

# TEST REPORT

**Applicant:** Hangzhou Sunyard Technology Co., Ltd.  
**Address:** Sunyard Science & Technology Building, 3888  
Jiangnan Ave., Binjiang Dist., Hangzhou, China  
**Equipment Type:** Android POS Terminal  
**Model Name:** S200  
**Brand Name:** SUNYARD  
**FCC ID:** 2BFZW-S200  
**Test Standard:** 47 CFR Part 2  
(Others refer to chapter 3.1)  
**Sample Arrival Date:** Apr. 08, 2024  
**Test Date:** Apr. 08, 2024 - Apr. 18, 2024  
**Date of Issue:** Jun. 20, 2024

## ISSUED BY:

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### Revision History

| Version        | Issue Date           | Revisions Content    |
|----------------|----------------------|----------------------|
| <u>Rev. 01</u> | <u>Jun. 20, 2024</u> | <u>Initial Issue</u> |

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

|              |                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------|
| Name         | Shenzhen BALUN Technology Co., Ltd.                                                                                          |
| Address      | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                            |

## 1.2 Test Location

|                           |                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                      | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                     |
| Location                  | <input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                        |
|                           | <input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.                                                                                        |

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                                                            |
|-----------|--------------------------------------------------------------------------------------------|
| Applicant | Hangzhou Sunyard Technology Co., Ltd.                                                      |
| Address   | Sunyard Science & Technology Building, 3888 Jiangnan Ave., Binjiang Dist., Hangzhou, China |

### 2.2 Manufacturer Information

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| Manufacturer | Hangzhou Sunyard Technology Co., Ltd.                                                      |
| Address      | Sunyard Science & Technology Building, 3888 Jiangnan Ave., Binjiang Dist., Hangzhou, China |

### 2.3 General Description for Equipment under Test (EUT)

|                                           |                                 |
|-------------------------------------------|---------------------------------|
| EUT Name                                  | Android POS Terminal            |
| Model Name Under Test                     | S200                            |
| Series Model Name                         | N/A                             |
| Description of Model name differentiation | N/A                             |
| Hardware Version                          | S1-00-10-01-01                  |
| Software Version                          | SP6987A_V002_20240328_userdebug |
| Dimensions (Approx.)                      | N/A                             |
| Weight (Approx.)                          | N/A                             |

## 2.4 Technical Information

|                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Network and Wireless connectivity for EUT                                                                                                                                                                                                     | 2G Network GSM/GPRS/EDGE 850/1900 MHz<br>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5<br>4G Network LTE FDD Band 2/4/5/7/12/17/66<br>LTE TDD Band 38/41<br>Bluetooth (BR+EDR+BLE)<br>2.4G WIFI 802.11b, 802.11g and 802.11n(HT20/40)<br>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)<br>U-NII-1/3, NFC |
| About the Product                                                                                                                                                                                                                                 | The equipment is Smart POS Terminal, intended for used with information technology equipment.                                                                                                                                                                                                                    |
| Note 1:<br>The EUT is a Smart POS Terminal, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report. |                                                                                                                                                                                                                                                                                                                  |

The following is the technical information of the EUT tested frequency bands in this report.

|                 |                                                                                                                                                                                                                                                                                                                                                                                        |            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Operating Bands | GSM/GPRS/EGPRS 850/1900 MHz<br>WCDMA/HSDPA/HSUPA Band 2/4/5<br>FDD LTE Band 2/4/5/7/12/17/66<br>TDD LTE Band 38/41                                                                                                                                                                                                                                                                     |            |
| Modulation Type | GSM/GPRS                                                                                                                                                                                                                                                                                                                                                                               | GMSK       |
|                 | EGPRS                                                                                                                                                                                                                                                                                                                                                                                  | 8PSK       |
|                 | WCDMA                                                                                                                                                                                                                                                                                                                                                                                  | QPSK       |
|                 | HSDPA                                                                                                                                                                                                                                                                                                                                                                                  | QPSK       |
|                 | /HSUPA                                                                                                                                                                                                                                                                                                                                                                                 | 16QAM      |
|                 | LTE                                                                                                                                                                                                                                                                                                                                                                                    | QPSK/16QAM |
| Multislot Class | GPRS/EGPRS: 12                                                                                                                                                                                                                                                                                                                                                                         |            |
| Antenna Type    | Monopole Antenna                                                                                                                                                                                                                                                                                                                                                                       |            |
| Antenna Gain    | GSM/GPRS/EGPRS 850: -1.8 dBi<br>GSM/GPRS/EGPRS 1900: -1.0 dBi<br>WCDMA/HSDPA/HSUPA Band 2: -1.0 dBi<br>WCDMA/HSDPA/HSUPA Band 4: -0.3 dBi<br>WCDMA/HSDPA/HSUPA Band 5: -1.8 dBi<br>FDD LTE Band 2: -1.0 dBi<br>FDD LTE Band 4: -0.3 dBi<br>FDD LTE Band 5: -1.8 dBi<br>FDD LTE Band 7: -1.6 dBi<br>FDD LTE Band 12: -1.1 dBi<br>FDD LTE Band 17: -1.1 dBi<br>FDD LTE Band 66: -0.3 dBi |            |

|                                    |             |      | TDD LTE Band 38: -1.4 dBi<br>TDD LTE Band 41: -0.6 dBi                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
|------------------------------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| The Max RF Output Power (EIRP/ERP) |             |      | GSM/GPRS/EGPRS 850: 29.02 dBm<br>GSM/GPRS/EGPRS 1900: 27.95 dBm<br>WCDMA/HSDPA/HSUPA Band 2: 17.02 dBm<br>WCDMA/HSDPA/HSUPA Band 4: 21.60 dBm<br>WCDMA/HSDPA/HSUPA Band 5: 19.11 dBm<br>FDD LTE Band 2: 17.13 dBm<br>FDD LTE Band 4: 22.03 dBm<br>FDD LTE Band 5: 19.36 dBm<br>FDD LTE Band 7: 18.24 dBm<br>FDD LTE Band 12: 19.65 dBm<br>FDD LTE Band 17: 20.27 dBm<br>FDD LTE Band 66: 17.17 dBm<br>TDD LTE Band 38: 22.09 dBm<br>TDD LTE Band 41: 22.95 dBm |                     |
| Band                               | Power Class |      | Tx Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rx Frequency Range  |
|                                    | GMSK        | 8PSK |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| GSM850                             | 4           | E2   | 824 MHz ~ 849 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                              | 869 MHz ~ 894 MHz   |
| GSM1900                            | 1           | E2   | 1850 MHz ~ 1910 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1930 MHz ~ 1990 MHz |
| WCDMA B2                           | 3           |      | 1850 MHz ~ 1910 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1930 MHz ~ 1990 MHz |
| WCDMA B4                           | 3           |      | 1710 MHz ~ 1755 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2110 MHz ~ 2155 MHz |
| WCDMA B5                           | 3           |      | 824 MHz ~ 849 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                              | 869 MHz ~ 894 MHz   |
| LTE B2                             | 3           |      | 1850 MHz ~ 1910 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1930 MHz ~ 1990 MHz |
| LTE B4                             | 3           |      | 1710 MHz ~ 1755 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2110 MHz ~ 2155 MHz |
| LTE B5                             | 3           |      | 824 MHz ~ 849 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                              | 869 MHz ~ 894 MHz   |
| LTE B7                             | 3           |      | 2500 MHz ~ 2570 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2620 MHz ~ 2690 MHz |
| LTE B12                            | 3           |      | 699 MHz ~ 716 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                              | 729 MHz ~ 746 MHz   |
| LTE B17                            | 3           |      | 704 MHz ~ 716 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                              | 734 MHz ~ 746 MHz   |
| LTE B38                            | 3           |      | 2570 MHz ~ 2620 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2570 MHz ~ 2620 MHz |
| LTE B41                            | 3           |      | 2496 MHz ~ 2690 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2496 MHz ~ 2690 MHz |
| LTE B66                            | 3           |      | 1710 MHz ~ 1780 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2110 MHz ~ 2180 MHz |

Note1: The EUT information provided by the applicant, except for The Max RF Conducted Power. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                    | Document Title                                                                                       |
|-----|-----------------------------|------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2               | Frequency Allocations and Radio Treaty Matters;<br>General Rules and Regulations                     |
| 2   | 47 CFR Part 22<br>Subpart H | Cellular Radiotelephone Service                                                                      |
| 3   | 47 CFR Part 24<br>Subpart E | Broadband PCS                                                                                        |
| 4   | 47 CFR Part 27              | Miscellaneous Wireless Communications Services                                                       |
| 5   | ANSI C63.26-2015            | American National Standard for Compliance Testing of<br>Transmitters Used in Licensed Radio Services |
| 6   | KDB 971168<br>D01 v03       | Measurement Guidance for Certification of Licensed Digital<br>Transmitters                           |

### 3.2 Test Verdict

| No. | Test Description                       | FCC Part No.                        | Test Result                | Test Verdict |
|-----|----------------------------------------|-------------------------------------|----------------------------|--------------|
| 1   | Conducted RF Output Power              | 2.1046                              | Reporting only (ANNEX A.1) | Pass         |
| 2   | Effective (Isotropic) Radiated Power   | 2.1046<br>22.913<br>24.232<br>27.50 | ANNEX A.1                  | Pass         |
| 3   | Peak to Average Ratio                  | 2.1046<br>24.232(d)<br>27.50(d)     | ANNEX A.2                  | Pass         |
| 4   | Occupied Bandwidth                     | 2.1049<br>22.917<br>24.238<br>27.53 | ANNEX A.3                  | Pass         |
| 5   | Frequency Stability                    | 2.1055<br>22.355<br>24.235<br>27.54 | ANNEX A.4                  | Pass         |
| 6   | Spurious Emission at Antenna Terminals | 2.1051<br>22.917<br>24.238<br>27.53 | ANNEX A.5                  | Pass         |
| 7   | Band Edge                              | 2.1051<br>22.917<br>24.238<br>27.53 | ANNEX A.6                  | Pass         |
| 8   | Field Strength of Spurious Radiation   | 2.1053<br>22.917<br>24.238<br>27.53 | ANNEX A.7                  | Pass         |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the environmental conditions were within the listed ranges:

|                             |                         |                   |
|-----------------------------|-------------------------|-------------------|
| Relative Humidity           |                         | 20% to 75%        |
| Atmospheric Pressure        |                         | 98 kPa to 102 kPa |
| Test Voltage of the EUT     | NV (Normal Voltage)     | 7.20 V            |
|                             | LV (Low Voltage)        | 6.80 V            |
|                             | HV (High Voltage)       | 7.92 V            |
| Test Temperature of the EUT | NT (Normal Temperature) | 15 °C to 35 °C    |
|                             | LT (Low Temperature)    | -30°C             |
|                             | HT (High Temperature)   | 50°C              |

### 4.2 Test Equipment List

| Description                          | Manufacturer | Model     | Serial No.             | Version  | Cal. Date  | Cal. Due   |
|--------------------------------------|--------------|-----------|------------------------|----------|------------|------------|
| <b>2/3/4/5G RF Test System</b>       |              |           |                        |          |            |            |
| BL410 Test Software                  | BALUN        | BL410R    | N/A                    | 3.0.536  | N/A        | N/A        |
| Temperature Chamber                  | AHK          | SP20      | 1412                   | N/A      | 2023.09.11 | 2024.09.10 |
| Universal Radio Communication Tester | R&S          | CMU 200   | 121487                 | V5.21    | 2023.12.05 | 2024.12.05 |
| Wideband Radio Communication Tester  | R&S          | CMW 500   | 167190                 | V4.0.60  | 2023.05.11 | 2024.05.10 |
| Wideband Radio Communication Tester  | R&S          | CMW 500   | 102318                 | V3.2.71  | 2023.05.16 | 2024.05.15 |
| Spectrum Analyzer                    | keysight     | N9020A    | MY50531628             | A.16.09  | 2023.05.12 | 2024.05.11 |
| Spectrum Analyzer                    | R&S          | FSV40     | 101544                 | 2.30.SP4 | 2023.12.27 | 2024.12.26 |
| DC Power Supply                      | ITECH        | IT6863A   | 8000140207<br>57810006 | N/A      | 2023.08.16 | 2024.08.15 |
| <b>Radiated Test System</b>          |              |           |                        |          |            |            |
| Radiated Test System Test Software   | BALUN        | BL410-E   | N/A                    | V22.930  | N/A        | N/A        |
| Wideband Radio Communication Tester  | R&S          | CMW 500   | 167190                 | V4.0.60  | 2023.05.11 | 2024.05.10 |
| Wideband Radio Communication Tester  | R&S          | CMW 500   | 102318                 | V3.2.71  | 2023.05.16 | 2024.05.15 |
| Spectrum Analyzer                    | R&S          | FSV40     | 101544                 | 2.30.SP4 | 2023.12.27 | 2024.12.26 |
| Test Antenna-Bi-Log (30 MHz-3 GHz)   | Schwarzbeck  | VULB 9163 | 9163-624               | N/A      | 2021.08.20 | 2024.08.19 |

|                                  |             |                 |            |         |            |            |
|----------------------------------|-------------|-----------------|------------|---------|------------|------------|
| Test Antenna-Horn<br>(1-18 GHz)  | Schwarzbeck | BBHA<br>9120D   | 01917      | N/A     | 2022.06.09 | 2025.06.08 |
| Test Antenna-Horn<br>(18-40 GHz) | A-INFO      | LB-<br>180400KF | J211060273 | N/A     | 2021.07.02 | 2024.07.01 |
| Anechoic Chamber                 | YIHENG      | 9m*6m*6m        | 144        | N/A     | 2022.02.09 | 2024.09.03 |
| EMI Receiver                     | Keysight    | N9038A          | MY53220118 | A.14.16 | 2023.09.05 | 2024.09.04 |

### 4.3 Test Configurations

| Test Items                             | Test Mode    | Test Channel |     |     |
|----------------------------------------|--------------|--------------|-----|-----|
|                                        |              | LCH          | MCH | HCH |
| Effective (Isotropic) Radiated Power   | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
|                                        | HSDPA Band 2 | v            | v   | v   |
|                                        | HSDPA Band 4 | v            | v   | v   |
|                                        | HSDPA Band 5 | v            | v   | v   |
|                                        | HSUPA Band 2 | v            | v   | v   |
|                                        | HSUPA Band 4 | v            | v   | v   |
|                                        | HSUPA Band 5 | v            | v   | v   |
| Peak to Average Ratio                  | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Occupied Bandwidth                     | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Frequency Stability                    | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Spurious Emission at Antenna Terminals | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |

| Test Items                                                                | Test Mode    | Test Channel |     |     |
|---------------------------------------------------------------------------|--------------|--------------|-----|-----|
|                                                                           |              | LCH          | MCH | HCH |
|                                                                           | WCDMA Band 4 | v            | v   | v   |
|                                                                           | WCDMA Band 5 | v            | v   | v   |
| Band Edge                                                                 | GSM 850      | v            | --  | v   |
|                                                                           | GSM 1900     | v            | --  | v   |
|                                                                           | EGPRS 850    | v            | --  | v   |
|                                                                           | EGPRS 1900   | v            | --  | v   |
|                                                                           | WCDMA Band 2 | v            | --  | v   |
|                                                                           | WCDMA Band 4 | v            | --  | v   |
|                                                                           | WCDMA Band 5 | v            | --  | v   |
| Field Strength of Spurious Radiation                                      | GSM 850      | v            | v   | v   |
|                                                                           | GSM 1900     | v            | v   | v   |
|                                                                           | EGPRS 850    | v            | v   | v   |
|                                                                           | EGPRS 1900   | v            | v   | v   |
|                                                                           | WCDMA Band 2 | v            | v   | v   |
|                                                                           | WCDMA Band 4 | v            | v   | v   |
|                                                                           | WCDMA Band 5 | v            | v   | v   |
| Note 1: The mark "v" means that this configuration is chosen for testing. |              |              |     |     |

| Test Mode           | UL Channel     | UL Channel No. | UL Frequency (MHz) |
|---------------------|----------------|----------------|--------------------|
| GSM/GPRS/EGPRS 850  | Low Channel    | 128            | 824.2              |
|                     | Middle Channel | 190            | 836.6              |
|                     | High Channel   | 251            | 848.8              |
| GSM/GPRS/EGPRS 1900 | Low Channel    | 512            | 1850.2             |
|                     | Middle Channel | 661            | 1880.0             |
|                     | High Channel   | 810            | 1909.8             |
| WCDMA Band 2        | Low Channel    | 9262           | 1852.4             |
|                     | Middle Channel | 9400           | 1880.0             |
|                     | High Channel   | 9538           | 1907.6             |
| WCDMA Band 4        | Low Channel    | 1312           | 1712.4             |
|                     | Middle Channel | 1412           | 1732.4             |
|                     | High Channel   | 1513           | 1752.6             |
| WCDMA Band 5        | Low Channel    | 4132           | 826.4              |
|                     | Middle Channel | 4182           | 836.4              |
|                     | High Channel   | 4233           | 846.6              |

| LTE Band                             | Bandwidth (MHz) |    |    |    |    |    | Modulation Type |        | RB# |      |      | Test Channel |     |     |
|--------------------------------------|-----------------|----|----|----|----|----|-----------------|--------|-----|------|------|--------------|-----|-----|
|                                      | 1.4             | 3  | 5  | 10 | 15 | 20 | QPSK            | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| Effective (Isotropic) Radiated Power |                 |    |    |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                    | v               | v  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 4                                    | v               | v  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 5                                    | v               | v  | v  | v  | n  | n  | v               | v      | v   | v    | v    | v            | v   | v   |
| 7                                    | n               | n  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 12                                   | v               | v  | v  | v  | n  | n  | v               | v      | v   | v    | v    | v            | v   | v   |
| 17                                   | n               | n  | v  | v  | n  | n  | v               | v      | v   | v    | v    | v            | v   | v   |
| 38                                   | n               | n  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 41                                   | n               | n  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| 66                                   | v               | v  | v  | v  | v  | v  | v               | v      | v   | v    | v    | v            | v   | v   |
| Peak to Average Ratio                |                 |    |    |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                    | --              | -- | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 4                                    | --              | -- | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 5                                    | --              | -- | -- | v  | n  | n  | v               | v      | v   | --   | v    | v            | v   | v   |
| 7                                    | n               | n  | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 12                                   | --              | -- | -- | v  | n  | n  | v               | v      | v   | --   | v    | v            | v   | v   |
| 17                                   | n               | n  | -- | v  | n  | n  | v               | v      | v   | --   | v    | v            | v   | v   |
| 38                                   | n               | n  | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 41                                   | n               | n  | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| 66                                   | --              | -- | -- | -- | -- | v  | v               | v      | v   | --   | v    | v            | v   | v   |
| Occupied Bandwidth                   |                 |    |    |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                    | v               | v  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 4                                    | v               | v  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 5                                    | v               | v  | v  | v  | n  | n  | v               | v      | --  | --   | v    | v            | v   | v   |
| 7                                    | n               | n  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 12                                   | v               | v  | v  | v  | n  | n  | v               | v      | --  | --   | v    | v            | v   | v   |
| 17                                   | n               | n  | v  | v  | n  | n  | v               | v      | --  | --   | v    | v            | v   | v   |
| 38                                   | n               | n  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 41                                   | n               | n  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| 66                                   | v               | v  | v  | v  | v  | v  | v               | v      | --  | --   | v    | v            | v   | v   |
| Frequency Stability                  |                 |    |    |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                    | --              | -- | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 4                                    | --              | -- | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 5                                    | --              | -- | -- | v  | n  | n  | v               | v      | --  | --   | v    | --           | v   | --  |
| 7                                    | n               | n  | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 12                                   | --              | -- | -- | v  | n  | n  | v               | v      | --  | --   | v    | --           | v   | --  |
| 17                                   | n               | n  | -- | v  | n  | n  | v               | v      | --  | --   | v    | --           | v   | --  |
| 38                                   | n               | n  | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 41                                   | n               | n  | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |
| 66                                   | --              | -- | -- | v  | -- | -- | v               | v      | --  | --   | v    | --           | v   | --  |

| LTE Band                                                                  | Bandwidth (MHz) |   |   |    |    |    | Modulation Type |        | RB# |      |      | Test Channel |     |     |
|---------------------------------------------------------------------------|-----------------|---|---|----|----|----|-----------------|--------|-----|------|------|--------------|-----|-----|
|                                                                           | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK            | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| Spurious Emission at Antenna Terminals                                    |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                                                         | v               | v | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 4                                                                         | v               | v | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 5                                                                         | v               | v | v | v  | n  | n  | v               | v      | v   | --   | --   | v            | v   | v   |
| 7                                                                         | n               | n | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 12                                                                        | v               | v | v | v  | n  | n  | v               | v      | v   | --   | --   | v            | v   | v   |
| 17                                                                        | n               | n | v | v  | n  | n  | v               | v      | v   | --   | --   | v            | v   | v   |
| 38                                                                        | n               | n | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 41                                                                        | n               | n | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| 66                                                                        | v               | v | v | v  | v  | v  | v               | v      | v   | --   | --   | v            | v   | v   |
| Band Edge                                                                 |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                                                         | v               | v | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 4                                                                         | v               | v | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 5                                                                         | v               | v | v | v  | n  | n  | v               | v      | v   | --   | v    | v            | --  | v   |
| 7                                                                         | n               | n | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 12                                                                        | v               | v | v | v  | n  | n  | v               | v      | v   | --   | v    | v            | --  | v   |
| 17                                                                        | n               | n | v | v  | n  | n  | v               | v      | v   | --   | v    | v            | --  | v   |
| 38                                                                        | n               | n | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 41                                                                        | n               | n | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| 66                                                                        | v               | v | v | v  | v  | v  | v               | v      | v   | --   | v    | v            | --  | v   |
| Field Strength of Spurious Radiation                                      |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 2                                                                         | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 4                                                                         | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 5                                                                         | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 7                                                                         | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 12                                                                        | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 17                                                                        | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 38                                                                        | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 41                                                                        | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| 66                                                                        | Worst case      |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| Note 1: The mark “v” means that this configuration is chosen for testing. |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |
| Note 2: The mark “n” means that this bandwidth is not supported.          |                 |   |   |    |    |    |                 |        |     |      |      |              |     |     |

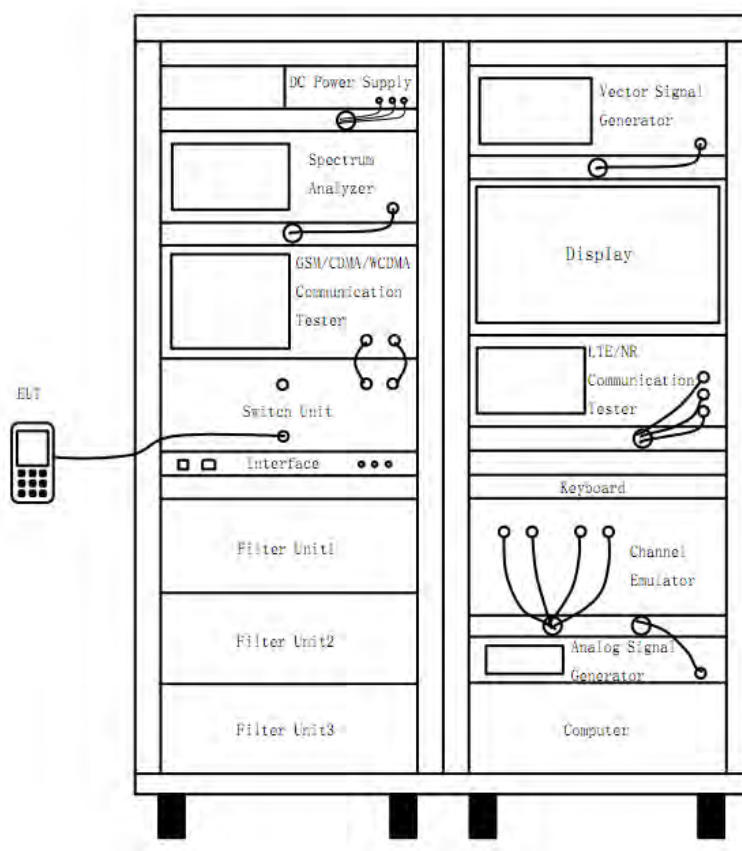
| Test Mode  | UL Channel   | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|------------|--------------|-------------------------|----------------|--------------------|
| LTE Band 2 | Low Range    | 1.4                     | 18607          | 1850.7             |
|            |              | 3                       | 18615          | 1851.5             |
|            |              | 5                       | 18625          | 1852.5             |
|            |              | 10                      | 18650          | 1855               |
|            |              | 15                      | 18675          | 1857.5             |
|            |              | 20                      | 18700          | 1860               |
|            | Middle Range | 1.4/3/5/10/15/20        | 18900          | 1880               |
|            | High Range   | 1.4                     | 19193          | 1909.3             |
|            |              | 3                       | 19185          | 1908.5             |
|            |              | 5                       | 19175          | 1907.5             |
|            |              | 10                      | 19150          | 1905               |
|            |              | 15                      | 19125          | 1902.5             |
|            |              | 20                      | 19100          | 1900               |
| LTE Band 4 | Low Range    | 1.4                     | 19957          | 1710.7             |
|            |              | 3                       | 19965          | 1711.5             |
|            |              | 5                       | 19975          | 1712.5             |
|            |              | 10                      | 20000          | 1715               |
|            |              | 15                      | 20025          | 1717.5             |
|            |              | 20                      | 20050          | 1720               |
|            | Middle Range | 1.4/3/5/10/15/20        | 20175          | 1732.5             |
|            | High Range   | 1.4                     | 20393          | 1754.3             |
|            |              | 3                       | 20385          | 1753.5             |
|            |              | 5                       | 20375          | 1752.5             |
|            |              | 10                      | 20350          | 1750               |
|            |              | 15                      | 20325          | 1747.5             |
|            |              | 20                      | 20300          | 1745               |
| LTE Band 5 | Low Range    | 1.4                     | 20407          | 824.7              |
|            |              | 3                       | 20415          | 825.5              |
|            |              | 5                       | 20425          | 826.5              |
|            |              | 10                      | 20450          | 829                |
|            | Middle Range | 1.4/3/5/10              | 20525          | 836.5              |
|            | High Range   | 1.4                     | 20643          | 848.3              |
|            |              | 3                       | 20635          | 847.5              |
|            |              | 5                       | 20625          | 846.5              |
|            |              | 10                      | 20600          | 844                |
| LTE Band 7 | Low Range    | 5                       | 20775          | 2502.5             |
|            |              | 10                      | 20800          | 2505               |
|            |              | 15                      | 20825          | 2507.5             |
|            |              | 20                      | 20850          | 2510               |
|            | Middle Range | 5/10/15/20              | 21100          | 2535               |

| Test Mode   | UL Channel   | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|-------------|--------------|-------------------------|----------------|--------------------|
|             | High Range   | 5                       | 21425          | 2567.5             |
|             |              | 10                      | 21400          | 2565               |
|             |              | 15                      | 21375          | 2562.5             |
|             |              | 20                      | 21350          | 2560               |
| LTE Band 12 | Low Range    | 1.4                     | 23017          | 699.7              |
|             |              | 3                       | 23025          | 700.5              |
|             |              | 5                       | 23035          | 701.5              |
|             |              | 10                      | 23060          | 704                |
|             | Middle Range | 1.4/3/5/10              | 23095          | 707.5              |
|             | High Range   | 1.4                     | 23173          | 715.3              |
|             |              | 3                       | 23165          | 714.5              |
|             |              | 5                       | 23155          | 713.5              |
|             |              | 10                      | 23130          | 711                |
|             |              |                         |                |                    |
|             |              |                         |                |                    |
| LTE Band 17 | Low Range    | 5                       | 23755          | 706.5              |
|             |              | 10                      | 23780          | 709                |
|             | Middle Range | 5/10                    | 23790          | 710                |
|             | High Range   | 5                       | 23825          | 713.5              |
|             |              | 10                      | 23800          | 711                |
| LTE Band 38 | Low Range    | 5                       | 37775          | 2572.5             |
|             |              | 10                      | 37800          | 2575               |
|             |              | 15                      | 37825          | 2577.5             |
|             |              | 20                      | 37850          | 2580               |
|             | Middle Range | 5/10/15/20              | 38000          | 2595               |
|             | High Range   | 5                       | 38225          | 2617.5             |
|             |              | 10                      | 38200          | 2615               |
|             |              | 15                      | 38175          | 2612.5             |
|             |              | 20                      | 38150          | 2610               |
|             |              |                         |                |                    |
|             |              |                         |                |                    |
| LTE Band 41 | Low Range    | 5                       | 39675          | 2498.5             |
|             |              | 10                      | 39700          | 2501               |
|             |              | 15                      | 39725          | 2503.5             |
|             |              | 20                      | 39750          | 2506               |
|             | Middle Range | 5/10/15/20              | 40620          | 2593               |
|             | High Range   | 5                       | 41565          | 2687.5             |
|             |              | 10                      | 41540          | 2685               |
|             |              | 15                      | 41515          | 2682.5             |
|             |              | 20                      | 41490          | 2680               |
|             |              |                         |                |                    |
|             |              |                         |                |                    |
| LTE Band 66 | Low Range    | 1.4                     | 131979         | 1710.7             |
|             |              | 3                       | 131987         | 1711.5             |
|             |              | 5                       | 131997         | 1712.5             |
|             |              | 10                      | 132022         | 1715               |
|             |              | 15                      | 132047         | 1717.5             |

| Test Mode | UL Channel   | Channel Bandwidth<br>(MHz) | UL Channel No. | UL Frequency<br>(MHz) |
|-----------|--------------|----------------------------|----------------|-----------------------|
|           |              | 20                         | 132072         | 1720                  |
|           | Middle Range | 1.4/3/5/10/15/20           | 132322         | 1745                  |
|           | High Range   | 1.4                        | 132665         | 1779.3                |
|           |              | 3                          | 132657         | 1778.5                |
|           |              | 5                          | 132647         | 1777.5                |
|           |              | 10                         | 132622         | 1775                  |
|           |              | 15                         | 132597         | 1772.5                |
|           |              | 20                         | 132572         | 1770                  |

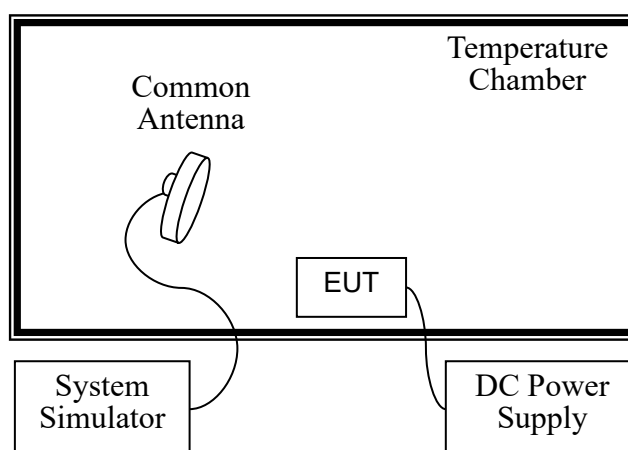
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



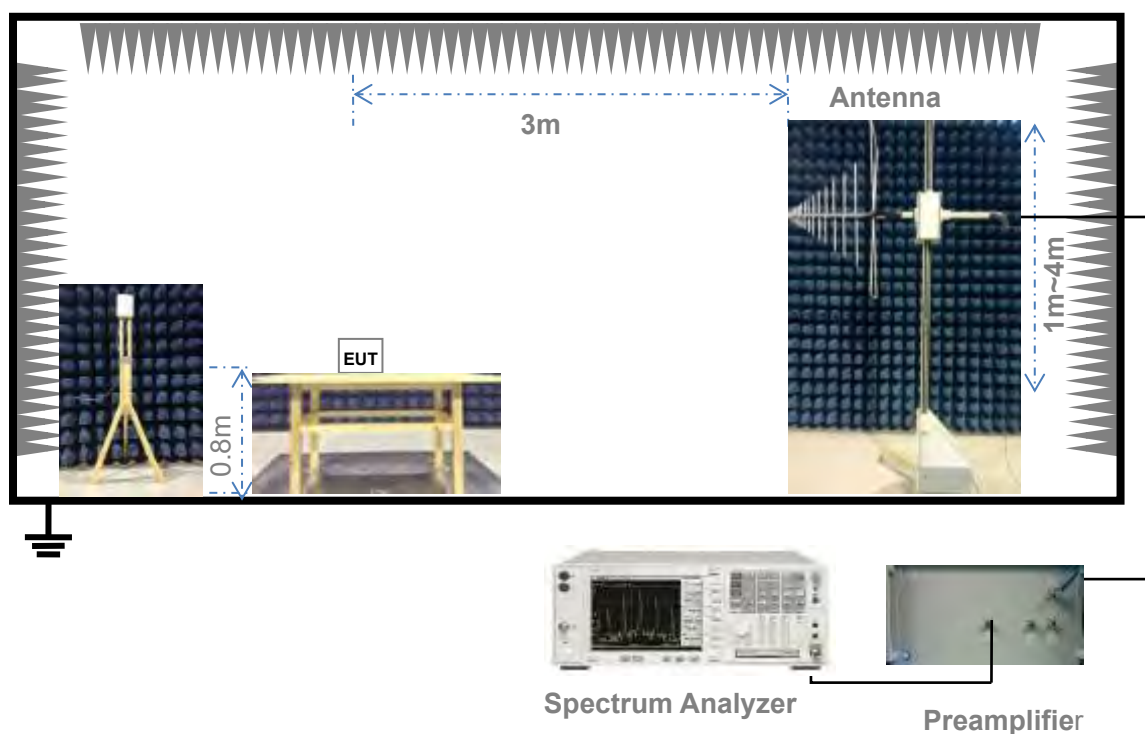
(Diagram 1)

### 4.4.2 For Frequency Stability Test



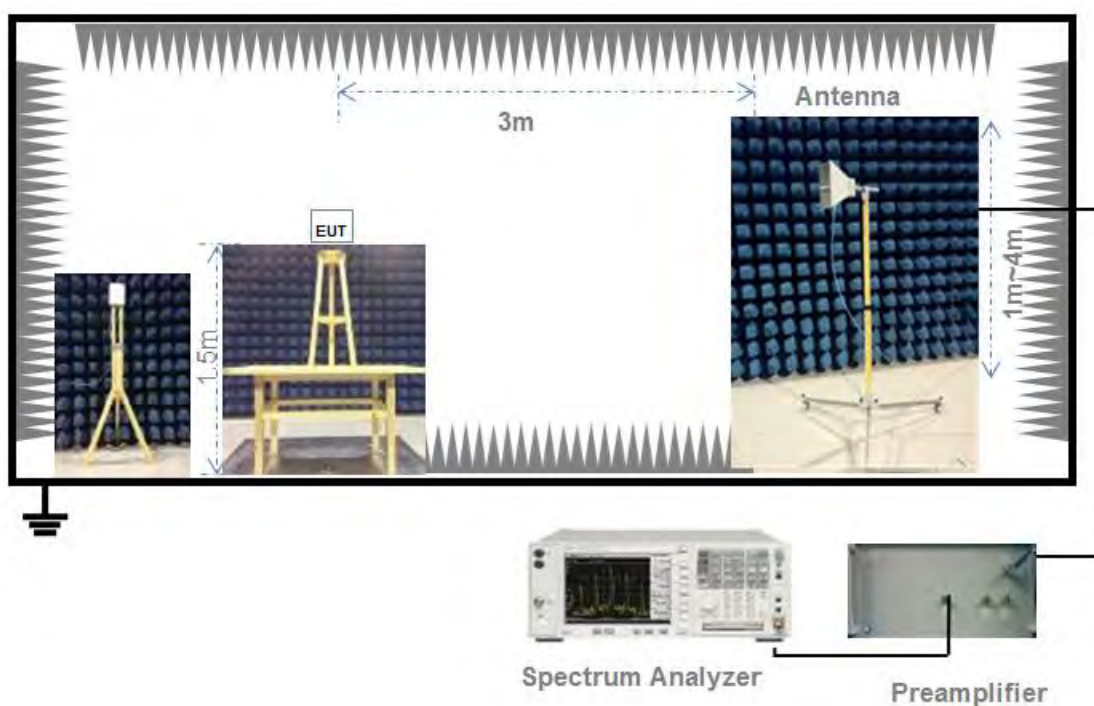
(Diagram 2)

#### 4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

#### 4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

## 5 TEST ITEMS

### 5.1 Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC section 96.41(b), the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph below:

| Device                                                                                                                                         | Maximum EIRP (dBm/10 megahertz) | Maximum PSD (dBm/MHz) |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------|
| End User Device                                                                                                                                | 23                              | N/A                   |
| Category A CBSD                                                                                                                                | 30                              | 20                    |
| Category B CBSD <sup>note1</sup>                                                                                                               | 47                              | 37                    |
| Note1: Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67. |                                 |                       |

### 5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

### 5.1.3 Test Procedure

#### **Description of the Conducted Output Power Measurement**

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

### **Description of the Transmitter Radiated Power Measurement**

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when  $P_{\text{Meas}}$  value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Peak to Average Ratio

### 5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d) & 27.50(j) & 27.50(k)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
  - 1) for continuous transmissions, set to 1 ms,

2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as  $P_{Pk}$ . Use one of the applicable procedures presented 4.2 to measure the total average power and record as  $P_{Avg}$ . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

#### 5.2.4 Test Result

Please refer to ANNEX A.2.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

#### FCC § 2.1049

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

### 5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is

recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

#### 5.3.4 Test Result

Please refer to ANNEX A.3.

## 5.4 Frequency Stability

### 5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

**Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services**

| Frequency range (MHz) | Base, fixed (ppm) | Mobile > 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-------------------|------------------------|------------------------|
| 25 to 50              | 20.0              | 20.0                   | 50.0                   |
| 50 to 450             | 5.0               | 5.0                    | 50.0                   |
| 450 to 512            | 2.5               | 5.0                    | 5.0                    |
| 821 to 896            | 1.5               | 2.5                    | 2.5                    |
| 928 to 929            | 5.0               | n/a                    | n/a                    |
| 929 to 960            | 1.5               | n/a                    | n/a                    |
| 2110 to 2220          | 10.0              | n/a                    | n/a                    |

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

#### 5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

#### 5.4.4 Test Result

Please refer to ANNEX A.4.

## 5.5 Spurious Emission at Antenna Terminals

### 5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43+10*\log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

#### FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

#### FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$  dB ( $-10$  dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$  dB ( $-13$  dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$  dB ( $-25$  dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### FCC § 27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

### 5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ω; the path loss as the factor is calibrated to correct the reading.
2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3\*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

#### 5.5.4 Test Result

Please refer to ANNEX A.5.

## 5.6 Band Edge

### 5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43+10*\log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

#### FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

#### FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40+10\log P$  dB ( $-10$  dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$  dB ( $-13$  dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

- $55 + 10 \log P$  dB ( $-25$  dBm,  $3$  nW) on all frequencies more than  $X$  MHz from the channel edge, where  $X$  is the greater of  $6$  MHz or the actual emission bandwidth ( $26$  dB).

In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between  $2490.5$  MHz and  $2496$  MHz and  $55 + 10 \log (P)$  dB at or below  $2490.5$  MHz. Mobile Satellite Service licensees operating on frequencies below  $2495$  MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the  $3450$ - $3550$  MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

## 5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

## 5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is  $50$  Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is  $50$  Ohm; the path loss as the factor is calibrated to correct the reading.

2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.

4. The center of the spectrum analyzer was set to block edge frequency.

5. Band edge are tested with  $1\% \text{cBW}$  (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 * \text{Span} / \text{RBW}$$

$$\text{VBW} = 3 \text{RBW}$$

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between  $763$ – $775$  MHz and  $793$ – $805$  MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a  $6.25$  kHz band segment. Since it was not possible to set the resolution bandwidth to  $6.25$  kHz with the available equipment, a bandwidth of  $10$  kHz was used instead to show compliance. By using a  $10$  kHz bandwidth on the spectrum analyzer.

$$10 \cdot \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

#### 5.6.4 Test Result

Please refer to ANNEX A.6.

## 5.7 Field Strength of Spurious Radiation

### 5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n)

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of

measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43+10\log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

FCC § 27.53(i) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40+10\log P$  dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$  dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$  dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service

licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### FCC § 27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

### 5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to

increase

the sensitivity of the measuring receiver.

12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.

13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

#### 5.7.4 Test Result

Please refer to ANNEX A.7.

## ANNEX A TEST RESULTS

### A.1 Transmitter Radiated Power (EIRP/ERP)

#### GSM Mode Test Data

| Test Band | Test Channel | Conducted Output Peak Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-----------|--------------|-----------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| GSM 850   | LCH          | 32.92                             | -1.8               | -3.95              | 28.97     | 0.789   | 7.00      | Pass    |
|           | MCH          | 32.97                             | -1.8               | -3.95              | 29.02     | 0.798   | 7.00      | Pass    |
|           | HCH          | 32.95                             | -1.8               | -3.95              | 29.00     | 0.794   | 7.00      | Pass    |
| GPRS 850  | LCH          | 32.90                             | -1.8               | -3.95              | 28.95     | 0.785   | 7.00      | Pass    |
|           | MCH          | 32.97                             | -1.8               | -3.95              | 29.02     | 0.798   | 7.00      | Pass    |
|           | HCH          | 32.95                             | -1.8               | -3.95              | 29.00     | 0.794   | 7.00      | Pass    |
| EGPRS 850 | LCH          | 30.03                             | -1.8               | -3.95              | 26.08     | 0.406   | 7.00      | Pass    |
|           | MCH          | 28.93                             | -1.8               | -3.95              | 24.98     | 0.315   | 7.00      | Pass    |
|           | HCH          | 30.23                             | -1.8               | -3.95              | 26.28     | 0.425   | 7.00      | Pass    |

| Test Band  | Test Channel | Conducted Output Peak Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------|--------------|-----------------------------------|--------------------|------------|----------|-----------|---------|
| GSM 1900   | LCH          | 26.40                             | -1                 | 25.40      | 0.347    | 2.00      | Pass    |
|            | MCH          | 26.40                             | -1                 | 25.40      | 0.347    | 2.00      | Pass    |
|            | HCH          | 26.40                             | -1                 | 25.40      | 0.347    | 2.00      | Pass    |
| GPRS 1900  | LCH          | 26.39                             | -1                 | 25.39      | 0.346    | 2.00      | Pass    |
|            | MCH          | 26.37                             | -1                 | 25.37      | 0.344    | 2.00      | Pass    |
|            | HCH          | 26.38                             | -1                 | 25.38      | 0.345    | 2.00      | Pass    |
| EGPRS 1900 | LCH          | 28.95                             | -1                 | 27.95      | 0.624    | 2.00      | Pass    |
|            | MCH          | 28.77                             | -1                 | 27.77      | 0.598    | 2.00      | Pass    |
|            | HCH          | 28.72                             | -1                 | 27.72      | 0.592    | 2.00      | Pass    |

Note 1: For the GPRS and EGPRS mode, all slots were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{Meas}$ , typically dBW or dBm);

$P_{Meas}$  = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

Note 3: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1).

Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

GPRS Conducted Output Power

| Band         | Channel | Conducted Output Peak Power |               |                  |                |                  |                |                  |                |
|--------------|---------|-----------------------------|---------------|------------------|----------------|------------------|----------------|------------------|----------------|
|              |         | 1 Slot<br>(dBm)             | 1 Slot<br>(W) | 2 Slots<br>(dBm) | 2 Slots<br>(W) | 3 Slots<br>(dBm) | 3 Slots<br>(W) | 4 Slots<br>(dBm) | 4 Slots<br>(W) |
| GPRS<br>850  | LCH     | 32.90                       | 1.95          | 32.18            | 1.65           | 30.48            | 1.12           | 29.47            | 0.89           |
|              | MCH     | 32.97                       | 1.98          | 32.25            | 1.68           | 29.52            | 0.89           | 29.53            | 0.90           |
|              | HCH     | 32.95                       | 1.97          | 32.24            | 1.67           | 30.62            | 1.15           | 29.57            | 0.91           |
| GPRS<br>1900 | LCH     | 26.39                       | 0.44          | 25.69            | 0.37           | 23.96            | 0.25           | 22.87            | 0.19           |
|              | MCH     | 26.37                       | 0.43          | 25.65            | 0.37           | 23.86            | 0.24           | 22.74            | 0.19           |
|              | HCH     | 26.38                       | 0.43          | 25.63            | 0.37           | 23.82            | 0.24           | 22.69            | 0.19           |

EGPRS Conducted Output Power

| Band          | Channel | Conducted Output Peak Power |               |                  |                |                  |                |                  |                |
|---------------|---------|-----------------------------|---------------|------------------|----------------|------------------|----------------|------------------|----------------|
|               |         | 1 Slot<br>(dBm)             | 1 Slot<br>(W) | 2 Slots<br>(dBm) | 2 Slots<br>(W) | 3 Slots<br>(dBm) | 3 Slots<br>(W) | 4 Slots<br>(dBm) | 4 Slots<br>(W) |
| EGPRS<br>850  | LCH     | 30.03                       | 1.01          | 28.73            | 0.75           | 26.77            | 0.47           | 25.69            | 30.03          |
|               | MCH     | 28.79                       | 0.76          | 28.93            | 0.78           | 26.93            | 0.49           | 25.75            | 28.79          |
|               | HCH     | 30.23                       | 1.05          | 29.10            | 0.81           | 27.19            | 0.52           | 25.90            | 30.23          |
| EGPRS<br>1900 | LCH     | 28.95                       | 0.79          | 27.87            | 0.61           | 25.66            | 0.37           | 24.62            | 28.95          |
|               | MCH     | 28.77                       | 0.75          | 27.51            | 0.56           | 25.48            | 0.35           | 24.32            | 28.77          |
|               | HCH     | 28.72                       | 0.74          | 27.68            | 0.59           | 25.50            | 0.35           | 24.25            | 28.72          |

WCDMA Mode Test Data

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 2 | LCH          | 17.70                           | -1                 | 16.70      | 0.047    | 2.00      | Pass    |
|              | MCH          | 17.84                           | -1                 | 16.84      | 0.048    | 2.00      | Pass    |
|              | HCH          | 18.02                           | -1                 | 17.02      | 0.050    | 2.00      | Pass    |
| HSDPA Band 2 | LCH          | 16.73                           | -1                 | 15.73      | 0.037    | 2.00      | Pass    |
|              | MCH          | 16.87                           | -1                 | 15.87      | 0.039    | 2.00      | Pass    |
|              | HCH          | 17.02                           | -1                 | 16.02      | 0.040    | 2.00      | Pass    |
| HSUPA Band 2 | LCH          | 15.72                           | -1                 | 14.72      | 0.030    | 2.00      | Pass    |
|              | MCH          | 15.88                           | -1                 | 14.88      | 0.031    | 2.00      | Pass    |
|              | HCH          | 16.02                           | -1                 | 15.02      | 0.032    | 2.00      | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 4 | LCH          | 21.90                           | -0.3               | 21.60      | 0.145    | 1.00      | Pass    |
|              | MCH          | 21.79                           | -0.3               | 21.49      | 0.141    | 1.00      | Pass    |
|              | HCH          | 21.82                           | -0.3               | 21.52      | 0.142    | 1.00      | Pass    |
| HSDPA Band 4 | LCH          | 20.93                           | -0.3               | 20.63      | 0.116    | 1.00      | Pass    |
|              | MCH          | 20.83                           | -0.3               | 20.53      | 0.113    | 1.00      | Pass    |
|              | HCH          | 20.83                           | -0.3               | 20.53      | 0.113    | 1.00      | Pass    |
| HSUPA Band 4 | LCH          | 19.95                           | -0.3               | 19.65      | 0.092    | 1.00      | Pass    |
|              | MCH          | 19.83                           | -0.3               | 19.53      | 0.090    | 1.00      | Pass    |
|              | HCH          | 19.83                           | -0.3               | 19.53      | 0.090    | 1.00      | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| WCDMA Band 5 | LCH          | 22.97                           | -1.8               | -3.95              | 19.02     | 0.080   | 7.00      | Pass    |
|              | MCH          | 22.97                           | -1.8               | -3.95              | 19.02     | 0.080   | 7.00      | Pass    |
|              | HCH          | 23.06                           | -1.8               | -3.95              | 19.11     | 0.081   | 7.00      | Pass    |
| HSDPA Band 5 | LCH          | 22.00                           | -1.8               | -3.95              | 18.05     | 0.064   | 7.00      | Pass    |
|              | MCH          | 22.01                           | -1.8               | -3.95              | 18.06     | 0.064   | 7.00      | Pass    |
|              | HCH          | 22.09                           | -1.8               | -3.95              | 18.14     | 0.065   | 7.00      | Pass    |
| HSUPA Band 5 | LCH          | 21.03                           | -1.8               | -3.95              | 17.08     | 0.051   | 7.00      | Pass    |
|              | MCH          | 21.04                           | -1.8               | -3.95              | 17.09     | 0.051   | 7.00      | Pass    |
|              | HCH          | 21.07                           | -1.8               | -3.95              | 17.12     | 0.052   | 7.00      | Pass    |

Note 1: For the HSDPA and HSUPA mode, all subtests were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

$ERP/EIRP$  = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{Meas}$ , typically dBW or dBm);

$P_{Meas}$  = measured transmitter output power or PSD, in dBm or dBW;

$GT$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$LC$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

#### HSDPA Conducted Output Power

| Conducted Output Power |               | EIRP (dBm) |       |       | EIRP (W) |       |       |
|------------------------|---------------|------------|-------|-------|----------|-------|-------|
| Band                   | Configuration | LCH        | MCH   | HCH   | LCH      | MCH   | HCH   |
| HSDPA B2               | Subtest 1     | 16.73      | 16.87 | 17.02 | 0.047    | 0.049 | 0.050 |
|                        | Subtest 2     | 16.72      | 16.84 | 16.98 | 0.047    | 0.048 | 0.050 |
|                        | Subtest 3     | 16.23      | 16.34 | 16.45 | 0.042    | 0.043 | 0.044 |
|                        | Subtest 4     | 16.19      | 16.32 | 16.47 | 0.042    | 0.043 | 0.044 |
| HSDPA B4               | Subtest 1     | 20.93      | 20.83 | 20.83 | 0.124    | 0.121 | 0.121 |
|                        | Subtest 2     | 20.87      | 20.77 | 20.79 | 0.122    | 0.119 | 0.120 |
|                        | Subtest 3     | 20.40      | 20.28 | 20.31 | 0.110    | 0.107 | 0.107 |
|                        | Subtest 4     | 20.39      | 20.28 | 20.29 | 0.109    | 0.107 | 0.107 |
| Conducted Output Power |               | ERP (dBm)  |       |       | ERP (W)  |       |       |
| Band                   | Configuration | LCH        | MCH   | HCH   | LCH      | MCH   | HCH   |
| HSDPA B5               | Subtest 1     | 22.00      | 22.01 | 22.09 | 0.158    | 0.159 | 0.162 |
|                        | Subtest 2     | 21.97      | 21.96 | 22.04 | 0.157    | 0.157 | 0.160 |
|                        | Subtest 3     | 21.47      | 21.51 | 21.56 | 0.140    | 0.142 | 0.143 |
|                        | Subtest 4     | 21.45      | 21.48 | 21.53 | 0.140    | 0.141 | 0.142 |

HSUPA Conducted Output Power

| Conducted Output Power |               | EIRP (dBm) |       |       | EIRP (W) |       |       |
|------------------------|---------------|------------|-------|-------|----------|-------|-------|
| Band                   | Configuration | LCH        | MCH   | HCH   | LCH      | MCH   | HCH   |
| HSUPA B2               | Subtest 1     | 14.73      | 14.86 | 15.01 | 0.030    | 0.031 | 0.032 |
|                        | Subtest 2     | 14.75      | 14.87 | 15.02 | 0.030    | 0.031 | 0.032 |
|                        | Subtest 3     | 15.72      | 15.88 | 16.02 | 0.037    | 0.039 | 0.040 |
|                        | Subtest 4     | 14.27      | 14.40 | 14.56 | 0.027    | 0.028 | 0.029 |
|                        | Subtest 5     | 15.70      | 15.83 | 16.00 | 0.037    | 0.038 | 0.040 |
| HSUPA B4               | Subtest 1     | 18.92      | 18.85 | 18.83 | 0.078    | 0.077 | 0.076 |
|                        | Subtest 2     | 18.95      | 18.83 | 18.84 | 0.079    | 0.076 | 0.077 |
|                        | Subtest 3     | 19.95      | 19.83 | 19.83 | 0.099    | 0.096 | 0.096 |
|                        | Subtest 4     | 18.46      | 18.37 | 18.37 | 0.070    | 0.069 | 0.069 |
|                        | Subtest 5     | 19.93      | 19.83 | 19.83 | 0.098    | 0.096 | 0.096 |
| Conducted Output Power |               | ERP (dBm)  |       |       | ERP (W)  |       |       |
| Band                   | Configuration | LCH        | MCH   | HCH   | LCH      | MCH   | HCH   |
| HSUPA B5               | Subtest 1     | 20.04      | 20.03 | 20.11 | 0.101    | 0.101 | 0.103 |
|                        | Subtest 2     | 20.06      | 20.06 | 20.10 | 0.101    | 0.101 | 0.102 |
|                        | Subtest 3     | 21.03      | 21.04 | 21.06 | 0.127    | 0.127 | 0.128 |
|                        | Subtest 4     | 19.53      | 19.59 | 19.66 | 0.090    | 0.091 | 0.092 |
|                        | Subtest 5     | 21.01      | 21.00 | 21.07 | 0.126    | 0.126 | 0.128 |

## LTE Mode Test Data

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz           | LCH          | QPSK      | RB1#0                 | 17.63                           | -1                 | 16.63      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 17.84                           | -1                 | 16.84      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#5                 | 17.65                           | -1                 | 16.65      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 17.73                           | -1                 | 16.73      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 17.76                           | -1                 | 16.76      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 17.7                            | -1                 | 16.70      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 16.78                           | -1                 | 15.78      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QcAM   | RB1#0                 | 16.68                           | -1                 | 15.68      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 16.9                            | -1                 | 15.90      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#5                 | 16.71                           | -1                 | 15.71      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 16.72                           | -1                 | 15.72      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 16.71                           | -1                 | 15.71      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 16.7                            | -1                 | 15.70      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 15.86                           | -1                 | 14.86      | 0.031    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.73                           | -1                 | 16.73      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 17.95                           | -1                 | 16.95      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#5                 | 17.73                           | -1                 | 16.73      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 17.83                           | -1                 | 16.83      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 17.88                           | -1                 | 16.88      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 17.81                           | -1                 | 16.81      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 16.84                           | -1                 | 15.84      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 17.07                           | -1                 | 16.07      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 17.27                           | -1                 | 16.27      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB1#5                 | 17.06                           | -1                 | 16.06      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 16.99                           | -1                 | 15.99      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 16.99                           | -1                 | 15.99      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 16.99                           | -1                 | 15.99      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 15.72                           | -1                 | 14.72      | 0.030    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 17.9                            | -1                 | 16.90      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 18.13                           | -1                 | 17.13      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB1#5                 | 17.92                           | -1                 | 16.92      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 17.99                           | -1                 | 16.99      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 18.04                           | -1                 | 17.04      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 18.02                           | -1                 | 17.02      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 17                              | -1                 | 16.00      | 0.040    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.89                           | -1                 | 15.89      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#3                 | 17.03                           | -1                 | 16.03      | 0.040    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 3 MHz             |              |           | RB1#5                 | 16.87                           | -1                 | 15.87      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB3#0                 | 17.06                           | -1                 | 16.06      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB3#2                 | 17.19                           | -1                 | 16.19      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB3#3                 | 17.08                           | -1                 | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB6#0                 | 16.14                           | -1                 | 15.14      | 0.033    | 2.00      | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 17.67                           | -1                 | 16.67      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 17.65                           | -1                 | 16.65      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 17.68                           | -1                 | 16.68      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 16.69                           | -1                 | 15.69      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 16.74                           | -1                 | 15.74      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB8#7                 | 16.68                           | -1                 | 15.68      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 16.67                           | -1                 | 15.67      | 0.037    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.58                           | -1                 | 15.58      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 16.53                           | -1                 | 15.53      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 16.55                           | -1                 | 15.55      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 15.79                           | -1                 | 14.79      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 15.81                           | -1                 | 14.81      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB8#7                 | 15.74                           | -1                 | 14.74      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 15.68                           | -1                 | 14.68      | 0.029    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.79                           | -1                 | 16.79      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 17.84                           | -1                 | 16.84      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 17.83                           | -1                 | 16.83      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 16.8                            | -1                 | 15.80      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 16.85                           | -1                 | 15.85      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB8#7                 | 16.78                           | -1                 | 15.78      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 16.79                           | -1                 | 15.79      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.8                            | -1                 | 15.80      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 16.78                           | -1                 | 15.78      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 16.76                           | -1                 | 15.76      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 15.83                           | -1                 | 14.83      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 15.88                           | -1                 | 14.88      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB8#7                 | 15.82                           | -1                 | 14.82      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 15.75                           | -1                 | 14.75      | 0.030    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 17.89                           | -1                 | 16.89      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 17.88                           | -1                 | 16.88      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 17.88                           | -1                 | 16.88      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 16.97                           | -1                 | 15.97      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 16.98                           | -1                 | 15.98      | 0.040    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB8#7                 | 16.9                            | -1                 | 15.90      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 16.9                            | -1                 | 15.90      | 0.039    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.71                           | -1                 | 15.71      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB1#7                 | 16.77                           | -1                 | 15.77      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#14                | 16.75                           | -1                 | 15.75      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB8#0                 | 16.01                           | -1                 | 15.01      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB8#4                 | 16.05                           | -1                 | 15.05      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB8#7                 | 16                              | -1                 | 15.00      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB15#0                | 15.92                           | -1                 | 14.92      | 0.031    | 2.00      | Pass    |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 17.59                           | -1                 | 16.59      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 17.74                           | -1                 | 16.74      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 17.58                           | -1                 | 16.58      | 0.045    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 16.68                           | -1                 | 15.68      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 16.72                           | -1                 | 15.72      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 16.71                           | -1                 | 15.71      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.66                           | -1                 | 15.66      | 0.037    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.75                           | -1                 | 15.75      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 16.86                           | -1                 | 15.86      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 16.75                           | -1                 | 15.75      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 15.67                           | -1                 | 14.67      | 0.029    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 15.77                           | -1                 | 14.77      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 15.74                           | -1                 | 14.74      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 15.68                           | -1                 | 14.68      | 0.029    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.7                            | -1                 | 16.70      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 17.83                           | -1                 | 16.83      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 17.75                           | -1                 | 16.75      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 16.73                           | -1                 | 15.73      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 16.86                           | -1                 | 15.86      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 16.81                           | -1                 | 15.81      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.8                            | -1                 | 15.80      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 17.18                           | -1                 | 16.18      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 17.32                           | -1                 | 16.32      | 0.043    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 17.14                           | -1                 | 16.14      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 15.88                           | -1                 | 14.88      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 15.93                           | -1                 | 14.93      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 15.88                           | -1                 | 14.88      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 15.87                           | -1                 | 14.87      | 0.031    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 17.78                           | -1                 | 16.78      | 0.048    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB1#13                | 17.96                           | -1                 | 16.96      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 17.82                           | -1                 | 16.82      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 16.89                           | -1                 | 15.89      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 16.96                           | -1                 | 15.96      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 16.87                           | -1                 | 15.87      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.86                           | -1                 | 15.86      | 0.039    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.87                           | -1                 | 15.87      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 16.98                           | -1                 | 15.98      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 16.87                           | -1                 | 15.87      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 15.9                            | -1                 | 14.90      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 15.94                           | -1                 | 14.94      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 15.89                           | -1                 | 14.89      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 15.86                           | -1                 | 14.86      | 0.031    | 2.00      | Pass    |
| 10 MHz            | LCH          | QPSK      | RB1#0                 | 17.68                           | -1                 | 16.68      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 17.92                           | -1                 | 16.92      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 17.7                            | -1                 | 16.70      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.72                           | -1                 | 15.72      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 16.73                           | -1                 | 15.73      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 16.77                           | -1                 | 15.77      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 16.75                           | -1                 | 15.75      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.56                           | -1                 | 15.56      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 16.78                           | -1                 | 15.78      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 16.59                           | -1                 | 15.59      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 15.75                           | -1                 | 14.75      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 15.74                           | -1                 | 14.74      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 15.76                           | -1                 | 14.76      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.72                           | -1                 | 14.72      | 0.030    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.73                           | -1                 | 16.73      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 17.92                           | -1                 | 16.92      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 17.8                            | -1                 | 16.80      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.78                           | -1                 | 15.78      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 16.84                           | -1                 | 15.84      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 16.85                           | -1                 | 15.85      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 16.84                           | -1                 | 15.84      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 17.06                           | -1                 | 16.06      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 17.25                           | -1                 | 16.25      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 17.1                            | -1                 | 16.10      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 15.81                           | -1                 | 14.81      | 0.030    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 15 MHz            | HCH          |           | RB25#13               | 15.87                           | -1                 | 14.87      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 15.9                            | -1                 | 14.90      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.85                           | -1                 | 14.85      | 0.031    | 2.00      | Pass    |
|                   |              | QPSK      | RB1#0                 | 17.87                           | -1                 | 16.87      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 18.06                           | -1                 | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 17.95                           | -1                 | 16.95      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.93                           | -1                 | 15.93      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 16.92                           | -1                 | 15.92      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 16.92                           | -1                 | 15.92      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 16.91                           | -1                 | 15.91      | 0.039    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.82                           | -1                 | 15.82      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 17.01                           | -1                 | 16.01      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 16.85                           | -1                 | 15.85      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 16.03                           | -1                 | 15.03      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 16.01                           | -1                 | 15.01      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 16                              | -1                 | 15.00      | 0.032    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.94                           | -1                 | 14.94      | 0.031    | 2.00      | Pass    |
| 15 MHz            | LCH          | QPSK      | RB1#0                 | 17.6                            | -1                 | 16.60      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 17.78                           | -1                 | 16.78      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 17.67                           | -1                 | 16.67      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 16.77                           | -1                 | 15.77      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 16.82                           | -1                 | 15.82      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 16.85                           | -1                 | 15.85      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 16.82                           | -1                 | 15.82      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.47                           | -1                 | 15.47      | 0.035    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 16.64                           | -1                 | 15.64      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 16.54                           | -1                 | 15.54      | 0.036    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 15.7                            | -1                 | 14.70      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 15.76                           | -1                 | 14.76      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 15.76                           | -1                 | 14.76      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 15.78                           | -1                 | 14.78      | 0.030    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.69                           | -1                 | 16.69      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 17.79                           | -1                 | 16.79      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 17.73                           | -1                 | 16.73      | 0.047    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 16.83                           | -1                 | 15.83      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 16.89                           | -1                 | 15.89      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 16.93                           | -1                 | 15.93      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 16.89                           | -1                 | 15.89      | 0.039    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            | HCH          | 16-QAM    | RB1#0                 | 16.97                           | -1                 | 15.97      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 17.09                           | -1                 | 16.09      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 17.07                           | -1                 | 16.07      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 15.83                           | -1                 | 14.83      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 15.88                           | -1                 | 14.88      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 15.91                           | -1                 | 14.91      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 15.85                           | -1                 | 14.85      | 0.031    | 2.00      | Pass    |
|                   |              | QPSK      | RB1#0                 | 17.77                           | -1                 | 16.77      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 17.92                           | -1                 | 16.92      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 17.86                           | -1                 | 16.86      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 16.95                           | -1                 | 15.95      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 17.01                           | -1                 | 16.01      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 17                              | -1                 | 16.00      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 16.99                           | -1                 | 15.99      | 0.040    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 17.1                            | -1                 | 16.10      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 17.2                            | -1                 | 16.20      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 17.13                           | -1                 | 16.13      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 15.86                           | -1                 | 14.86      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 15.93                           | -1                 | 14.93      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 15.9                            | -1                 | 14.90      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 15.91                           | -1                 | 14.91      | 0.031    | 2.00      | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 17.45                           | -1                 | 16.45      | 0.044    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 17.9                            | -1                 | 16.90      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 17.53                           | -1                 | 16.53      | 0.045    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 16.7                            | -1                 | 15.70      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 16.76                           | -1                 | 15.76      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 16.73                           | -1                 | 15.73      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 16.75                           | -1                 | 15.75      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB1#0                 | 16.94                           | -1                 | 15.94      | 0.039    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#50                | 17.37                           | -1                 | 16.37      | 0.043    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 17.01                           | -1                 | 16.01      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.73                           | -1                 | 14.73      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 15.79                           | -1                 | 14.79      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 15.77                           | -1                 | 14.77      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 15.76                           | -1                 | 14.76      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB1#0                 | 17.56                           | -1                 | 16.56      | 0.045    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 17.95                           | -1                 | 16.95      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 17.59                           | -1                 | 16.59      | 0.046    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 17.56                           | -1                 | 16.56      | 0.045    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 17.95                           | -1                 | 16.95      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 17.59                           | -1                 | 16.59      | 0.046    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 2</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB50#0                | 16.71                           | -1                 | 15.71      | 0.037    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 16.83                           | -1                 | 15.83      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 16.8                            | -1                 | 15.80      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 16.79                           | -1                 | 15.79      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.92                           | -1                 | 15.92      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 17.35                           | -1                 | 16.35      | 0.043    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 16.96                           | -1                 | 15.96      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.71                           | -1                 | 14.71      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 15.84                           | -1                 | 14.84      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 15.84                           | -1                 | 14.84      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 15.78                           | -1                 | 14.78      | 0.030    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 17.57                           | -1                 | 16.57      | 0.045    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 18.03                           | -1                 | 17.03      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 17.64                           | -1                 | 16.64      | 0.046    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 16.86                           | -1                 | 15.86      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 16.88                           | -1                 | 15.88      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 16.81                           | -1                 | 15.81      | 0.038    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 16.85                           | -1                 | 15.85      | 0.038    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 16.93                           | -1                 | 15.93      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 17.35                           | -1                 | 16.35      | 0.043    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 16.99                           | -1                 | 15.99      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 15.83                           | -1                 | 14.83      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 15.87                           | -1                 | 14.87      | 0.031    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 15.78                           | -1                 | 14.78      | 0.030    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 15.84                           | -1                 | 14.84      | 0.030    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz           | LCH          | QPSK      | RB1#0                 | 22.1                            | -0.3               | 21.80      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 22.22                           | -0.3               | 21.92      | 0.156    | 1.00      | Pass    |
|                   |              |           | RB1#5                 | 22.06                           | -0.3               | 21.76      | 0.150    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 22.11                           | -0.3               | 21.81      | 0.152    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 22.16                           | -0.3               | 21.86      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 22.11                           | -0.3               | 21.81      | 0.152    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.12                           | -0.3               | 20.82      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 21.3                            | -0.3               | 21.00      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB1#5                 | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 21.18                           | -0.3               | 20.88      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 20.27                           | -0.3               | 19.97      | 0.099    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 21.96                           | -0.3               | 21.66      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 22.14                           | -0.3               | 21.84      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#5                 | 21.96                           | -0.3               | 21.66      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 22.02                           | -0.3               | 21.72      | 0.149    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 22.01                           | -0.3               | 21.71      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 22.01                           | -0.3               | 21.71      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.26                           | -0.3               | 20.96      | 0.125    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 21.42                           | -0.3               | 21.12      | 0.129    | 1.00      | Pass    |
|                   |              |           | RB1#5                 | 21.24                           | -0.3               | 20.94      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 21.11                           | -0.3               | 20.81      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 19.92                           | -0.3               | 19.62      | 0.092    | 1.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 21.98                           | -0.3               | 21.68      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 22.14                           | -0.3               | 21.84      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#5                 | 21.94                           | -0.3               | 21.64      | 0.146    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 22.04                           | -0.3               | 21.74      | 0.149    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 22.09                           | -0.3               | 21.79      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 22.07                           | -0.3               | 21.77      | 0.150    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 21.01                           | -0.3               | 20.71      | 0.118    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 20.99                           | -0.3               | 20.69      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB1#3                 | 21.12                           | -0.3               | 20.82      | 0.121    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
| 3 MHz             |              |           | RB1#5                 | 21.03                           | -0.3               | 20.73      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB3#0                 | 21.16                           | -0.3               | 20.86      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB3#2                 | 21.21                           | -0.3               | 20.91      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB3#3                 | 21.2                            | -0.3               | 20.90      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB6#0                 | 20.21                           | -0.3               | 19.91      | 0.098    | 1.00      | Pass    |
|                   |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           |                       |                                 |                    |            |          |           |         |
|                   | LCH          | QPSK      | RB1#0                 | 22.16                           | -0.3               | 21.86      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 22.14                           | -0.3               | 21.84      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 22.12                           | -0.3               | 21.82      | 0.152    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 21.16                           | -0.3               | 20.86      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 21.21                           | -0.3               | 20.91      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB8#7                 | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 20.99                           | -0.3               | 20.69      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 20.99                           | -0.3               | 20.69      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 20.99                           | -0.3               | 20.69      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 20.28                           | -0.3               | 19.98      | 0.100    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 20.29                           | -0.3               | 19.99      | 0.100    | 1.00      | Pass    |
|                   |              |           | RB8#7                 | 20.26                           | -0.3               | 19.96      | 0.099    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 20.2                            | -0.3               | 19.90      | 0.098    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.03                           | -0.3               | 21.73      | 0.149    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 22.04                           | -0.3               | 21.74      | 0.149    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 22                              | -0.3               | 21.70      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 21.1                            | -0.3               | 20.80      | 0.120    | 1.00      | Pass    |
|                   |              |           | RB8#7                 | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 21.01                           | -0.3               | 20.71      | 0.118    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.28                           | -0.3               | 20.98      | 0.125    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 21.33                           | -0.3               | 21.03      | 0.127    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 21.3                            | -0.3               | 21.00      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 20.1                            | -0.3               | 19.80      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 20.12                           | -0.3               | 19.82      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB8#7                 | 20.06                           | -0.3               | 19.76      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 20                              | -0.3               | 19.70      | 0.093    | 1.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.05                           | -0.3               | 21.75      | 0.150    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 22.04                           | -0.3               | 21.74      | 0.149    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 21.98                           | -0.3               | 21.68      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 21.1                            | -0.3               | 20.80      | 0.120    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB8#7                 | 21.02                           | -0.3               | 20.72      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 21.04                           | -0.3               | 20.74      | 0.119    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB1#7                 | 21.02                           | -0.3               | 20.72      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB1#14                | 20.98                           | -0.3               | 20.68      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB8#0                 | 20.06                           | -0.3               | 19.76      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB8#4                 | 20.14                           | -0.3               | 19.84      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB8#7                 | 20.04                           | -0.3               | 19.74      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB15#0                | 20                              | -0.3               | 19.70      | 0.093    | 1.00      | Pass    |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 22.01                           | -0.3               | 21.71      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB1#13                | 22.16                           | -0.3               | 21.86      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 22                              | -0.3               | 21.70      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 21.12                           | -0.3               | 20.82      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 21.17                           | -0.3               | 20.87      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB1#13                | 21.29                           | -0.3               | 20.99      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 21.2                            | -0.3               | 20.90      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 20.13                           | -0.3               | 19.83      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 20.27                           | -0.3               | 19.97      | 0.099    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 20.2                            | -0.3               | 19.90      | 0.098    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.15                           | -0.3               | 19.85      | 0.097    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 21.95                           | -0.3               | 21.65      | 0.146    | 1.00      | Pass    |
|                   |              |           | RB1#13                | 22.09                           | -0.3               | 21.79      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 21.95                           | -0.3               | 21.65      | 0.146    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 20.98                           | -0.3               | 20.68      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 20.94                           | -0.3               | 20.64      | 0.116    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.99                           | -0.3               | 20.69      | 0.117    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.38                           | -0.3               | 21.08      | 0.128    | 1.00      | Pass    |
|                   |              |           | RB1#13                | 21.52                           | -0.3               | 21.22      | 0.132    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 21.34                           | -0.3               | 21.04      | 0.127    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 20.11                           | -0.3               | 19.81      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 20.17                           | -0.3               | 19.87      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 20.11                           | -0.3               | 19.81      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.05                           | -0.3               | 19.75      | 0.094    | 1.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 21.92                           | -0.3               | 21.62      | 0.145    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB1#13                | 22.08                           | -0.3               | 21.78      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 21.89                           | -0.3               | 21.59      | 0.144    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 21.11                           | -0.3               | 20.81      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 21.02                           | -0.3               | 20.72      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB1#13                | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB1#24                | 20.97                           | -0.3               | 20.67      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB12#0                | 20.1                            | -0.3               | 19.80      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB12#6                | 20.18                           | -0.3               | 19.88      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB12#13               | 20.09                           | -0.3               | 19.79      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.01                           | -0.3               | 19.71      | 0.094    | 1.00      | Pass    |
| 10 MHz            | LCH          | QPSK      | RB1#0                 | 22.08                           | -0.3               | 21.78      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 22.31                           | -0.3               | 22.01      | 0.159    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 22.11                           | -0.3               | 21.81      | 0.152    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB25#13               | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 21.25                           | -0.3               | 20.95      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 21.18                           | -0.3               | 20.88      | 0.122    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 20.97                           | -0.3               | 20.67      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 21                              | -0.3               | 20.70      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.14                           | -0.3               | 19.84      | 0.096    | 1.00      | Pass    |
|                   |              |           | RB25#13               | 20.19                           | -0.3               | 19.89      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 20.24                           | -0.3               | 19.94      | 0.099    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.18                           | -0.3               | 19.88      | 0.097    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.08                           | -0.3               | 21.78      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 22.23                           | -0.3               | 21.93      | 0.156    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 21.98                           | -0.3               | 21.68      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB25#13               | 21.05                           | -0.3               | 20.75      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 21                              | -0.3               | 20.70      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 21.03                           | -0.3               | 20.73      | 0.118    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.37                           | -0.3               | 21.07      | 0.128    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 21.48                           | -0.3               | 21.18      | 0.131    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 21.27                           | -0.3               | 20.97      | 0.125    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.07                           | -0.3               | 19.77      | 0.095    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
| 15 MHz            | HCH          |           | RB25#13               | 20.07                           | -0.3               | 19.77      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 20.04                           | -0.3               | 19.74      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.06                           | -0.3               | 19.76      | 0.095    | 1.00      | Pass    |
|                   |              | QPSK      | RB1#0                 | 22                              | -0.3               | 21.70      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 22.24                           | -0.3               | 21.94      | 0.156    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 21.99                           | -0.3               | 21.69      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 21.08                           | -0.3               | 20.78      | 0.120    | 1.00      | Pass    |
|                   |              |           | RB25#13               | 21.06                           | -0.3               | 20.76      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 21.04                           | -0.3               | 20.74      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 21.11                           | -0.3               | 20.81      | 0.121    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 20.92                           | -0.3               | 20.62      | 0.115    | 1.00      | Pass    |
|                   |              |           | RB1#25                | 21.19                           | -0.3               | 20.89      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB1#49                | 20.96                           | -0.3               | 20.66      | 0.116    | 1.00      | Pass    |
|                   |              |           | RB25#0                | 20.2                            | -0.3               | 19.90      | 0.098    | 1.00      | Pass    |
|                   |              |           | RB25#13               | 20.21                           | -0.3               | 19.91      | 0.098    | 1.00      | Pass    |
|                   |              |           | RB25#25               | 20.17                           | -0.3               | 19.87      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.17                           | -0.3               | 19.87      | 0.097    | 1.00      | Pass    |
| 15 MHz            | LCH          | QPSK      | RB1#0                 | 22                              | -0.3               | 21.70      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 22.09                           | -0.3               | 21.79      | 0.151    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 22                              | -0.3               | 21.70      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 21.17                           | -0.3               | 20.87      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 21.24                           | -0.3               | 20.94      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 21.28                           | -0.3               | 20.98      | 0.125    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 21.21                           | -0.3               | 20.91      | 0.123    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 20.91                           | -0.3               | 20.61      | 0.115    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 21                              | -0.3               | 20.70      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 20.89                           | -0.3               | 20.59      | 0.115    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 20.1                            | -0.3               | 19.80      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 20.16                           | -0.3               | 19.86      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 20.24                           | -0.3               | 19.94      | 0.099    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 20.16                           | -0.3               | 19.86      | 0.097    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 21.99                           | -0.3               | 21.69      | 0.148    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 22.07                           | -0.3               | 21.77      | 0.150    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 21.9                            | -0.3               | 21.60      | 0.145    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 21.19                           | -0.3               | 20.89      | 0.123    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 21.09                           | -0.3               | 20.79      | 0.120    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 21.13                           | -0.3               | 20.83      | 0.121    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            | HCH          | 16-QAM    | RB1#0                 | 21.3                            | -0.3               | 21.00      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 21.34                           | -0.3               | 21.04      | 0.127    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 21.17                           | -0.3               | 20.87      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 20.09                           | -0.3               | 19.79      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 20.1                            | -0.3               | 19.80      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 20.09                           | -0.3               | 19.79      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 20.05                           | -0.3               | 19.75      | 0.094    | 1.00      | Pass    |
|                   |              | QPSK      | RB1#0                 | 21.96                           | -0.3               | 21.66      | 0.147    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 22.07                           | -0.3               | 21.77      | 0.150    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 21.91                           | -0.3               | 21.61      | 0.145    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 21.1                            | -0.3               | 20.80      | 0.120    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 21.15                           | -0.3               | 20.85      | 0.122    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.25                           | -0.3               | 20.95      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB1#38                | 21.35                           | -0.3               | 21.05      | 0.127    | 1.00      | Pass    |
|                   |              |           | RB1#74                | 21.3                            | -0.3               | 21.00      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB36#0                | 20.04                           | -0.3               | 19.74      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB36#19               | 20.07                           | -0.3               | 19.77      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB36#39               | 20.02                           | -0.3               | 19.72      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB75#0                | 20.07                           | -0.3               | 19.77      | 0.095    | 1.00      | Pass    |
| 20 MHz            | LCH          | QPSK      | RB1#0                 | 21.87                           | -0.3               | 21.57      | 0.144    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 22.33                           | -0.3               | 22.03      | 0.160    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.76                           | -0.3               | 21.46      | 0.140    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 21.03                           | -0.3               | 20.73      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 21.14                           | -0.3               | 20.84      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 21.23                           | -0.3               | 20.93      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 21.17                           | -0.3               | 20.87      | 0.122    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.32                           | -0.3               | 21.02      | 0.126    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 21.77                           | -0.3               | 21.47      | 0.140    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.28                           | -0.3               | 20.98      | 0.125    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.01                           | -0.3               | 19.71      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 20.17                           | -0.3               | 19.87      | 0.097    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 20.21                           | -0.3               | 19.91      | 0.098    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 20.16                           | -0.3               | 19.86      | 0.097    | 1.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 21.86                           | -0.3               | 21.56      | 0.143    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 22.23                           | -0.3               | 21.93      | 0.156    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.76                           | -0.3               | 21.46      | 0.140    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 4</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB50#0                | 21                              | -0.3               | 20.70      | 0.117    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 21.07                           | -0.3               | 20.77      | 0.119    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 20.91                           | -0.3               | 20.61      | 0.115    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 20.95                           | -0.3               | 20.65      | 0.116    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.22                           | -0.3               | 20.92      | 0.124    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 21.54                           | -0.3               | 21.24      | 0.133    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.08                           | -0.3               | 20.78      | 0.120    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.02                           | -0.3               | 19.72      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 20.07                           | -0.3               | 19.77      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 19.96                           | -0.3               | 19.66      | 0.092    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 19.94                           | -0.3               | 19.64      | 0.092    | 1.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 21.72                           | -0.3               | 21.42      | 0.139    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 22.16                           | -0.3               | 21.86      | 0.153    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.7                            | -0.3               | 21.40      | 0.138    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 21.11                           | -0.3               | 20.81      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 21.01                           | -0.3               | 20.71      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 20.95                           | -0.3               | 20.65      | 0.116    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 21.03                           | -0.3               | 20.73      | 0.118    | 1.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.02                           | -0.3               | 20.72      | 0.118    | 1.00      | Pass    |
|                   |              |           | RB1#50                | 21.45                           | -0.3               | 21.15      | 0.130    | 1.00      | Pass    |
|                   |              |           | RB1#99                | 21.11                           | -0.3               | 20.81      | 0.121    | 1.00      | Pass    |
|                   |              |           | RB50#0                | 20.06                           | -0.3               | 19.76      | 0.095    | 1.00      | Pass    |
|                   |              |           | RB50#25               | 20.02                           | -0.3               | 19.72      | 0.094    | 1.00      | Pass    |
|                   |              |           | RB50#50               | 19.93                           | -0.3               | 19.63      | 0.092    | 1.00      | Pass    |
|                   |              |           | RB100#0               | 20.08                           | -0.3               | 19.78      | 0.095    | 1.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 1.4 MHz           | LCH          | QPSK      | RB1#0                 | 23.23                           | -1.8               | -3.95              | 19.28     | 0.085   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 23.26                           | -1.8               | -3.95              | 19.31     | 0.085   | 7.00      | Pass    |
|                   |              |           | RB1#5                 | 23.14                           | -1.8               | -3.95              | 19.19     | 0.083   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 23.21                           | -1.8               | -3.95              | 19.26     | 0.084   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 23.15                           | -1.8               | -3.95              | 19.20     | 0.083   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 23.04                           | -1.8               | -3.95              | 19.09     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 22.13                           | -1.8               | -3.95              | 18.18     | 0.066   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 22.03                           | -1.8               | -3.95              | 18.08     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB1#5                 | 21.92                           | -1.8               | -3.95              | 17.97     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 22.01                           | -1.8               | -3.95              | 18.06     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 21.92                           | -1.8               | -3.95              | 17.97     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 21.93                           | -1.8               | -3.95              | 17.98     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 20.97                           | -1.8               | -3.95              | 17.02     | 0.050   | 7.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 23.09                           | -1.8               | -3.95              | 19.14     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 23.01                           | -1.8               | -3.95              | 19.06     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB1#5                 | 22.88                           | -1.8               | -3.95              | 18.93     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 23.01                           | -1.8               | -3.95              | 19.06     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 22.95                           | -1.8               | -3.95              | 19.00     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 22.9                            | -1.8               | -3.95              | 18.95     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 21.88                           | -1.8               | -3.95              | 17.93     | 0.062   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.14                           | -1.8               | -3.95              | 18.19     | 0.066   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 22.34                           | -1.8               | -3.95              | 18.39     | 0.069   | 7.00      | Pass    |
|                   |              |           | RB1#5                 | 22.13                           | -1.8               | -3.95              | 18.18     | 0.066   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 22.07                           | -1.8               | -3.95              | 18.12     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 22.03                           | -1.8               | -3.95              | 18.08     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 21.96                           | -1.8               | -3.95              | 18.01     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 20.79                           | -1.8               | -3.95              | 16.84     | 0.048   | 7.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.89                           | -1.8               | -3.95              | 18.94     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 23.06                           | -1.8               | -3.95              | 19.11     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB1#5                 | 22.88                           | -1.8               | -3.95              | 18.93     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 22.94                           | -1.8               | -3.95              | 18.99     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 22.98                           | -1.8               | -3.95              | 19.03     | 0.080   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 22.95                           | -1.8               | -3.95              | 19.00     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 21.97                           | -1.8               | -3.95              | 18.02     | 0.063   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.83                           | -1.8               | -3.95              | 17.88     | 0.061   | 7.00      | Pass    |
|                   |              |           | RB1#3                 | 21.99                           | -1.8               | -3.95              | 18.04     | 0.064   | 7.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 3 MHz             |              |           | RB1#5                 | 21.84                           | -1.8               | -3.95              | 17.89     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB3#0                 | 22.06                           | -1.8               | -3.95              | 18.11     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB3#2                 | 22.07                           | -1.8               | -3.95              | 18.12     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB3#3                 | 22.07                           | -1.8               | -3.95              | 18.12     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB6#0                 | 21.08                           | -1.8               | -3.95              | 17.13     | 0.052   | 7.00      | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 23.08                           | -1.8               | -3.95              | 19.13     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 23.07                           | -1.8               | -3.95              | 19.12     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 22.87                           | -1.8               | -3.95              | 18.92     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 22.11                           | -1.8               | -3.95              | 18.16     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 21.98                           | -1.8               | -3.95              | 18.03     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB8#7                 | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 21.86                           | -1.8               | -3.95              | 17.91     | 0.062   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.77                           | -1.8               | -3.95              | 17.82     | 0.061   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 21.75                           | -1.8               | -3.95              | 17.80     | 0.060   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 21.69                           | -1.8               | -3.95              | 17.74     | 0.059   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 21.03                           | -1.8               | -3.95              | 17.08     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 21.04                           | -1.8               | -3.95              | 17.09     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB8#7                 | 20.9                            | -1.8               | -3.95              | 16.95     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 20.81                           | -1.8               | -3.95              | 16.86     | 0.049   | 7.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 23.05                           | -1.8               | -3.95              | 19.10     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 23.08                           | -1.8               | -3.95              | 19.13     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 22.82                           | -1.8               | -3.95              | 18.87     | 0.077   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 21.92                           | -1.8               | -3.95              | 17.97     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB8#7                 | 21.9                            | -1.8               | -3.95              | 17.95     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 21.83                           | -1.8               | -3.95              | 17.88     | 0.061   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.16                           | -1.8               | -3.95              | 18.21     | 0.066   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 22.14                           | -1.8               | -3.95              | 18.19     | 0.066   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 22.21                           | -1.8               | -3.95              | 18.26     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 20.94                           | -1.8               | -3.95              | 16.99     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 20.98                           | -1.8               | -3.95              | 17.03     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB8#7                 | 20.88                           | -1.8               | -3.95              | 16.93     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 20.88                           | -1.8               | -3.95              | 16.93     | 0.049   | 7.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.95                           | -1.8               | -3.95              | 19.00     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 22.92                           | -1.8               | -3.95              | 18.97     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 22.91                           | -1.8               | -3.95              | 18.96     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 21.92                           | -1.8               | -3.95              | 17.97     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 21.99                           | -1.8               | -3.95              | 18.04     | 0.064   | 7.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
|                   |              |           | RB8#7                 | 22.01                           | -1.8               | -3.95              | 18.06     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 21.9                            | -1.8               | -3.95              | 17.95     | 0.062   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.87                           | -1.8               | -3.95              | 17.92     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB1#7                 | 21.83                           | -1.8               | -3.95              | 17.88     | 0.061   | 7.00      | Pass    |
|                   |              |           | RB1#14                | 21.82                           | -1.8               | -3.95              | 17.87     | 0.061   | 7.00      | Pass    |
|                   |              |           | RB8#0                 | 20.94                           | -1.8               | -3.95              | 16.99     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB8#4                 | 20.99                           | -1.8               | -3.95              | 17.04     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB8#7                 | 20.9                            | -1.8               | -3.95              | 16.95     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB15#0                | 20.84                           | -1.8               | -3.95              | 16.89     | 0.049   | 7.00      | Pass    |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 23.17                           | -1.8               | -3.95              | 19.22     | 0.084   | 7.00      | Pass    |
|                   |              |           | RB1#13                | 23.21                           | -1.8               | -3.95              | 19.26     | 0.084   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 22.99                           | -1.8               | -3.95              | 19.04     | 0.080   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 22.2                            | -1.8               | -3.95              | 18.25     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 22.05                           | -1.8               | -3.95              | 18.10     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 22.08                           | -1.8               | -3.95              | 18.13     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 22.11                           | -1.8               | -3.95              | 18.16     | 0.065   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.9                            | -1.8               | -3.95              | 17.95     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB1#13                | 22.03                           | -1.8               | -3.95              | 18.08     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 21.9                            | -1.8               | -3.95              | 17.95     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 20.87                           | -1.8               | -3.95              | 16.92     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 20.97                           | -1.8               | -3.95              | 17.02     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 20.94                           | -1.8               | -3.95              | 16.99     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 20.89                           | -1.8               | -3.95              | 16.94     | 0.049   | 7.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 22.88                           | -1.8               | -3.95              | 18.93     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB1#13                | 23.1                            | -1.8               | -3.95              | 19.15     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 22.77                           | -1.8               | -3.95              | 18.82     | 0.076   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 21.88                           | -1.8               | -3.95              | 17.93     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 22.01                           | -1.8               | -3.95              | 18.06     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 21.87                           | -1.8               | -3.95              | 17.92     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.18                           | -1.8               | -3.95              | 18.23     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB1#13                | 22.35                           | -1.8               | -3.95              | 18.40     | 0.069   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 22.36                           | -1.8               | -3.95              | 18.41     | 0.069   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 20.93                           | -1.8               | -3.95              | 16.98     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 21.02                           | -1.8               | -3.95              | 17.07     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 21                              | -1.8               | -3.95              | 17.05     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 20.96                           | -1.8               | -3.95              | 17.01     | 0.050   | 7.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.8                            | -1.8               | -3.95              | 18.85     | 0.077   | 7.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
|                   |              |           | RB1#13                | 22.89                           | -1.8               | -3.95              | 18.94     | 0.078   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 22.76                           | -1.8               | -3.95              | 18.81     | 0.076   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 21.87                           | -1.8               | -3.95              | 17.92     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 21.94                           | -1.8               | -3.95              | 17.99     | 0.063   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.85                           | -1.8               | -3.95              | 17.90     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB1#13                | 21.98                           | -1.8               | -3.95              | 18.03     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB1#24                | 21.83                           | -1.8               | -3.95              | 17.88     | 0.061   | 7.00      | Pass    |
|                   |              |           | RB12#0                | 20.89                           | -1.8               | -3.95              | 16.94     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB12#6                | 20.96                           | -1.8               | -3.95              | 17.01     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB12#13               | 20.88                           | -1.8               | -3.95              | 16.93     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 20.87                           | -1.8               | -3.95              | 16.92     | 0.049   | 7.00      | Pass    |
| 10 MHz            | LCH          | QPSK      | RB1#0                 | 23.18                           | -1.8               | -3.95              | 19.23     | 0.084   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 23.31                           | -1.8               | -3.95              | 19.36     | 0.086   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 22.83                           | -1.8               | -3.95              | 18.88     | 0.077   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 22.05                           | -1.8               | -3.95              | 18.10     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB25#13               | 22.13                           | -1.8               | -3.95              | 18.18     | 0.066   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 22.2                            | -1.8               | -3.95              | 18.25     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 22.16                           | -1.8               | -3.95              | 18.21     | 0.066   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.68                           | -1.8               | -3.95              | 17.73     | 0.059   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 21.85                           | -1.8               | -3.95              | 17.90     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 21.66                           | -1.8               | -3.95              | 17.71     | 0.059   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 20.95                           | -1.8               | -3.95              | 17.00     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB25#13               | 20.97                           | -1.8               | -3.95              | 17.02     | 0.050   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 21.06                           | -1.8               | -3.95              | 17.11     | 0.051   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 20.96                           | -1.8               | -3.95              | 17.01     | 0.050   | 7.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 23.09                           | -1.8               | -3.95              | 19.14     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 23.09                           | -1.8               | -3.95              | 19.14     | 0.082   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 22.82                           | -1.8               | -3.95              | 18.87     | 0.077   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 21.85                           | -1.8               | -3.95              | 17.90     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB25#13               | 21.93                           | -1.8               | -3.95              | 17.98     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 21.93                           | -1.8               | -3.95              | 17.98     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 22.01                           | -1.8               | -3.95              | 18.06     | 0.064   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 22.1                            | -1.8               | -3.95              | 18.15     | 0.065   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 22.31                           | -1.8               | -3.95              | 18.36     | 0.069   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 22.19                           | -1.8               | -3.95              | 18.24     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 20.9                            | -1.8               | -3.95              | 16.95     | 0.050   | 7.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 5</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
|                   |              |           | RB25#13               | 20.86                           | -1.8               | -3.95              | 16.91     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 20.86                           | -1.8               | -3.95              | 16.91     | 0.049   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 20.88                           | -1.8               | -3.95              | 16.93     | 0.049   | 7.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 22.82                           | -1.8               | -3.95              | 18.87     | 0.077   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 23.01                           | -1.8               | -3.95              | 19.06     | 0.081   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 22.9                            | -1.8               | -3.95              | 18.95     | 0.079   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 21.89                           | -1.8               | -3.95              | 17.94     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB25#13               | 21.99                           | -1.8               | -3.95              | 18.04     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 21.84                           | -1.8               | -3.95              | 17.89     | 0.062   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 22.28                           | -1.8               | -3.95              | 18.33     | 0.068   | 7.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 21.98                           | -1.8               | -3.95              | 18.03     | 0.064   | 7.00      | Pass    |
|                   |              |           | RB1#25                | 22.23                           | -1.8               | -3.95              | 18.28     | 0.067   | 7.00      | Pass    |
|                   |              |           | RB1#49                | 21.95                           | -1.8               | -3.95              | 18.00     | 0.063   | 7.00      | Pass    |
|                   |              |           | RB25#0                | 21.35                           | -1.8               | -3.95              | 17.40     | 0.055   | 7.00      | Pass    |
|                   |              |           | RB25#13               | 21.37                           | -1.8               | -3.95              | 17.42     | 0.055   | 7.00      | Pass    |
|                   |              |           | RB25#25               | 21.35                           | -1.8               | -3.95              | 17.40     | 0.055   | 7.00      | Pass    |
|                   |              |           | RB50#0                | 21.45                           | -1.8               | -3.95              | 17.50     | 0.056   | 7.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 7</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz             | LCH          | QPSK      | RB1#0                 | 19.56                           | -1.6               | 17.96      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 19.73                           | -1.6               | 18.13      | 0.065    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 19.57                           | -1.6               | 17.97      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 18.72                           | -1.6               | 17.12      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 18.73                           | -1.6               | 17.13      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.78                           | -1.6               | 17.18      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 18.87                           | -1.6               | 17.27      | 0.053    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 18.76                           | -1.6               | 17.16      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 17.76                           | -1.6               | 16.16      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 17.8                            | -1.6               | 16.20      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 17.76                           | -1.6               | 16.16      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.72                           | -1.6               | 16.12      | 0.041    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 19.56                           | -1.6               | 17.96      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 19.66                           | -1.6               | 18.06      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 19.57                           | -1.6               | 17.97      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 18.61                           | -1.6               | 17.01      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 18.67                           | -1.6               | 17.07      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.65                           | -1.6               | 17.05      | 0.051    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 19.08                           | -1.6               | 17.48      | 0.056    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 19.17                           | -1.6               | 17.57      | 0.057    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 19.08                           | -1.6               | 17.48      | 0.056    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 17.71                           | -1.6               | 16.11      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 17.84                           | -1.6               | 16.24      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 17.79                           | -1.6               | 16.19      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.73                           | -1.6               | 16.13      | 0.041    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 19.56                           | -1.6               | 17.96      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 19.68                           | -1.6               | 18.08      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#24                | 19.53                           | -1.6               | 17.93      | 0.062    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 18.59                           | -1.6               | 16.99      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 18.68                           | -1.6               | 17.08      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 18.6                            | -1.6               | 17.00      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.63                           | -1.6               | 17.03      | 0.050    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.7                            | -1.6               | 17.10      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB1#13                | 18.75                           | -1.6               | 17.15      | 0.052    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 7</b> |              |           |                       |                                 |                    |            |          |           |         |
| 10 MHz            |              |           | RB1#24                | 18.57                           | -1.6               | 16.97      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB12#0                | 17.68                           | -1.6               | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB12#6                | 17.69                           | -1.6               | 16.09      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB12#13               | 17.65                           | -1.6               | 16.05      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.55                           | -1.6               | 15.95      | 0.039    | 2.00      | Pass    |
|                   | LCH          | QPSK      | RB1#0                 | 19.59                           | -1.6               | 17.99      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 19.79                           | -1.6               | 18.19      | 0.066    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 19.58                           | -1.6               | 17.98      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.68                           | -1.6               | 17.08      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 18.72                           | -1.6               | 17.12      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 18.75                           | -1.6               | 17.15      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.76                           | -1.6               | 17.16      | 0.052    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.56                           | -1.6               | 16.96      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 18.74                           | -1.6               | 17.14      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 18.58                           | -1.6               | 16.98      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.78                           | -1.6               | 16.18      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 17.82                           | -1.6               | 16.22      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 17.84                           | -1.6               | 16.24      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.81                           | -1.6               | 16.21      | 0.042    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 19.63                           | -1.6               | 18.03      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 19.76                           | -1.6               | 18.16      | 0.065    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 19.6                            | -1.6               | 18.00      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.67                           | -1.6               | 17.07      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 18.67                           | -1.6               | 17.07      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.98                           | -1.6               | 17.38      | 0.055    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 19.13                           | -1.6               | 17.53      | 0.057    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 18.99                           | -1.6               | 17.39      | 0.055    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.75                           | -1.6               | 16.15      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 17.73                           | -1.6               | 16.13      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 17.77                           | -1.6               | 16.17      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.78                           | -1.6               | 16.18      | 0.041    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 19.65                           | -1.6               | 18.05      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 19.81                           | -1.6               | 18.21      | 0.066    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 19.64                           | -1.6               | 18.04      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 7</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB25#25               | 18.64                           | -1.6               | 17.04      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.7                            | -1.6               | 17.10      | 0.051    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.68                           | -1.6               | 17.08      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB1#25                | 18.78                           | -1.6               | 17.18      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB1#49                | 18.54                           | -1.6               | 16.94      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB25#0                | 17.79                           | -1.6               | 16.19      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB25#13               | 17.8                            | -1.6               | 16.20      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB25#25               | 17.8                            | -1.6               | 16.20      | 0.042    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.72                           | -1.6               | 16.12      | 0.041    | 2.00      | Pass    |
| 15 MHz            | LCH          | QPSK      | RB1#0                 | 19.48                           | -1.6               | 17.88      | 0.061    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 19.64                           | -1.6               | 18.04      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 19.56                           | -1.6               | 17.96      | 0.063    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 18.68                           | -1.6               | 17.08      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 18.76                           | -1.6               | 17.16      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 18.74                           | -1.6               | 17.14      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 18.73                           | -1.6               | 17.13      | 0.052    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.5                            | -1.6               | 16.90      | 0.049    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 18.59                           | -1.6               | 16.99      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 18.39                           | -1.6               | 16.79      | 0.048    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 17.68                           | -1.6               | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 17.72                           | -1.6               | 16.12      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 17.68                           | -1.6               | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 17.73                           | -1.6               | 16.13      | 0.041    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 19.53                           | -1.6               | 17.93      | 0.062    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 19.64                           | -1.6               | 18.04      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 19.5                            | -1.6               | 17.90      | 0.062    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 18.72                           | -1.6               | 17.12      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 18.73                           | -1.6               | 17.13      | 0.052    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.92                           | -1.6               | 17.32      | 0.054    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 18.99                           | -1.6               | 17.39      | 0.055    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 18.89                           | -1.6               | 17.29      | 0.054    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 17.72                           | -1.6               | 16.12      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 17.73                           | -1.6               | 16.13      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 17.69                           | -1.6               | 16.09      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 17.7                            | -1.6               | 16.10      | 0.041    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 19.55                           | -1.6               | 17.95      | 0.062    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 7</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB1#38                | 19.64                           | -1.6               | 18.04      | 0.064    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 19.52                           | -1.6               | 17.92      | 0.062    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 18.74                           | -1.6               | 17.14      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 18.75                           | -1.6               | 17.15      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 18.69                           | -1.6               | 17.09      | 0.051    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.94                           | -1.6               | 17.34      | 0.054    | 2.00      | Pass    |
|                   |              |           | RB1#38                | 19.04                           | -1.6               | 17.44      | 0.055    | 2.00      | Pass    |
|                   |              |           | RB1#74                | 18.78                           | -1.6               | 17.18      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB36#0                | 17.67                           | -1.6               | 16.07      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB36#19               | 17.65                           | -1.6               | 16.05      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB36#39               | 17.6                            | -1.6               | 16.00      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB75#0                | 17.65                           | -1.6               | 16.05      | 0.040    | 2.00      | Pass    |
|                   |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz            | LCH          | QPSK      | RB1#0                 | 19.36                           | -1.6               | 17.76      | 0.060    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.78                           | -1.6               | 18.18      | 0.066    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 19.32                           | -1.6               | 17.72      | 0.059    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.63                           | -1.6               | 17.03      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 18.66                           | -1.6               | 17.06      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 18.59                           | -1.6               | 16.99      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 18.61                           | -1.6               | 17.01      | 0.050    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.94                           | -1.6               | 17.34      | 0.054    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.32                           | -1.6               | 17.72      | 0.059    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 18.84                           | -1.6               | 17.24      | 0.053    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.68                           | -1.6               | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 17.74                           | -1.6               | 16.14      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 17.69                           | -1.6               | 16.09      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 17.66                           | -1.6               | 16.06      | 0.040    | 2.00      | Pass    |
|                   | MCH          | QPSK      | RB1#0                 | 19.39                           | -1.6               | 17.79      | 0.060    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.84                           | -1.6               | 18.24      | 0.067    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 19.42                           | -1.6               | 17.82      | 0.061    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.61                           | -1.6               | 17.01      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 18.68                           | -1.6               | 17.08      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 18.62                           | -1.6               | 17.02      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 18.61                           | -1.6               | 17.01      | 0.050    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.83                           | -1.6               | 17.23      | 0.053    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.25                           | -1.6               | 17.65      | 0.058    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 18.79                           | -1.6               | 17.19      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.7                            | -1.6               | 16.10      | 0.041    | 2.00      | Pass    |

| Test BW           | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 7</b> |              |           |                       |                                 |                    |            |          |           |         |
|                   |              |           | RB50#25               | 17.68                           | -1.6               | 16.08      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 17.64                           | -1.6               | 16.04      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 17.67                           | -1.6               | 16.07      | 0.040    | 2.00      | Pass    |
|                   | HCH          | QPSK      | RB1#0                 | 19.33                           | -1.6               | 17.73      | 0.059    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.77                           | -1.6               | 18.17      | 0.066    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 19.26                           | -1.6               | 17.66      | 0.058    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 18.64                           | -1.6               | 17.04      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 18.65                           | -1.6               | 17.05      | 0.051    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 18.55                           | -1.6               | 16.95      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 18.6                            | -1.6               | 17.00      | 0.050    | 2.00      | Pass    |
|                   |              | 16-QAM    | RB1#0                 | 18.74                           | -1.6               | 17.14      | 0.052    | 2.00      | Pass    |
|                   |              |           | RB1#50                | 19.13                           | -1.6               | 17.53      | 0.057    | 2.00      | Pass    |
|                   |              |           | RB1#99                | 18.59                           | -1.6               | 16.99      | 0.050    | 2.00      | Pass    |
|                   |              |           | RB50#0                | 17.64                           | -1.6               | 16.04      | 0.040    | 2.00      | Pass    |
|                   |              |           | RB50#25               | 17.69                           | -1.6               | 16.09      | 0.041    | 2.00      | Pass    |
|                   |              |           | RB50#50               | 17.56                           | -1.6               | 15.96      | 0.039    | 2.00      | Pass    |
|                   |              |           | RB100#0               | 17.62                           | -1.6               | 16.02      | 0.040    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 12</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 1.4 MHz            | LCH          | QPSK      | RB1#0                 | 22.61                           | -1.1               | -3.25              | 19.36     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 22.74                           | -1.1               | -3.25              | 19.49     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#5                 | 22.59                           | -1.1               | -3.25              | 19.34     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB3#0                 | 22.67                           | -1.1               | -3.25              | 19.42     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB3#2                 | 22.74                           | -1.1               | -3.25              | 19.49     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB3#3                 | 22.67                           | -1.1               | -3.25              | 19.42     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB6#0                 | 21.66                           | -1.1               | -3.25              | 18.41     | 0.069   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 21.73                           | -1.1               | -3.25              | 18.48     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 21.84                           | -1.1               | -3.25              | 18.59     | 0.072   | 3.00      | Pass    |
|                    |              |           | RB1#5                 | 21.7                            | -1.1               | -3.25              | 18.45     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB3#0                 | 21.76                           | -1.1               | -3.25              | 18.51     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB3#2                 | 21.68                           | -1.1               | -3.25              | 18.43     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB3#3                 | 21.77                           | -1.1               | -3.25              | 18.52     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB6#0                 | 20.8                            | -1.1               | -3.25              | 17.55     | 0.057   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 22.64                           | -1.1               | -3.25              | 19.39     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 22.79                           | -1.1               | -3.25              | 19.54     | 0.090   | 3.00      | Pass    |
|                    |              |           | RB1#5                 | 22.66                           | -1.1               | -3.25              | 19.41     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB3#0                 | 22.72                           | -1.1               | -3.25              | 19.47     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB3#2                 | 22.8                            | -1.1               | -3.25              | 19.55     | 0.090   | 3.00      | Pass    |
|                    |              |           | RB3#3                 | 22.75                           | -1.1               | -3.25              | 19.50     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB6#0                 | 21.69                           | -1.1               | -3.25              | 18.44     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 21.64                           | -1.1               | -3.25              | 18.39     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 21.84                           | -1.1               | -3.25              | 18.59     | 0.072   | 3.00      | Pass    |
|                    |              |           | RB1#5                 | 21.67                           | -1.1               | -3.25              | 18.42     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB3#0                 | 21.82                           | -1.1               | -3.25              | 18.57     | 0.072   | 3.00      | Pass    |
|                    |              |           | RB3#2                 | 21.9                            | -1.1               | -3.25              | 18.65     | 0.073   | 3.00      | Pass    |
|                    |              |           | RB3#3                 | 21.87                           | -1.1               | -3.25              | 18.62     | 0.073   | 3.00      | Pass    |
|                    |              |           | RB6#0                 | 20.9                            | -1.1               | -3.25              | 17.65     | 0.058   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.57                           | -1.1               | -3.25              | 19.32     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 22.74                           | -1.1               | -3.25              | 19.49     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#5                 | 22.6                            | -1.1               | -3.25              | 19.35     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB3#0                 | 22.59                           | -1.1               | -3.25              | 19.34     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB3#2                 | 22.63                           | -1.1               | -3.25              | 19.38     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB3#3                 | 22.57                           | -1.1               | -3.25              | 19.32     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB6#0                 | 21.66                           | -1.1               | -3.25              | 18.41     | 0.069   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 21.52                           | -1.1               | -3.25              | 18.27     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB1#3                 | 21.72                           | -1.1               | -3.25              | 18.47     | 0.070   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Off set) | Conducted Output AV Power (dBm) | Antenn a Gain (dBi) | Antenn a Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|------------------------|---------------------------------|---------------------|---------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 12</b> |              |           |                        |                                 |                     |                     |           |         |           |         |
| 3 MHz              |              |           | RB1#5                  | 21.57                           | -1.1                | -3.25               | 18.32     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB3#0                  | 21.53                           | -1.1                | -3.25               | 18.28     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB3#2                  | 21.55                           | -1.1                | -3.25               | 18.30     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB3#3                  | 21.52                           | -1.1                | -3.25               | 18.27     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB6#0                  | 20.73                           | -1.1                | -3.25               | 17.48     | 0.056   | 3.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                  | 22.68                           | -1.1                | -3.25               | 19.43     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 22.7                            | -1.1                | -3.25               | 19.45     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 22.71                           | -1.1                | -3.25               | 19.46     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 21.73                           | -1.1                | -3.25               | 18.48     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB8#7                  | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 21.7                            | -1.1                | -3.25               | 18.45     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.6                            | -1.1                | -3.25               | 18.35     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 21.58                           | -1.1                | -3.25               | 18.33     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 21.65                           | -1.1                | -3.25               | 18.40     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 20.79                           | -1.1                | -3.25               | 17.54     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 20.83                           | -1.1                | -3.25               | 17.58     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB8#7                  | 20.79                           | -1.1                | -3.25               | 17.54     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 20.7                            | -1.1                | -3.25               | 17.45     | 0.056   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                  | 22.67                           | -1.1                | -3.25               | 19.42     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 22.72                           | -1.1                | -3.25               | 19.47     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 22.68                           | -1.1                | -3.25               | 19.43     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 21.78                           | -1.1                | -3.25               | 18.53     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB8#7                  | 21.73                           | -1.1                | -3.25               | 18.48     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 21.72                           | -1.1                | -3.25               | 18.47     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 22.03                           | -1.1                | -3.25               | 18.78     | 0.076   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 22.09                           | -1.1                | -3.25               | 18.84     | 0.077   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 22.05                           | -1.1                | -3.25               | 18.80     | 0.076   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 20.77                           | -1.1                | -3.25               | 17.52     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 20.84                           | -1.1                | -3.25               | 17.59     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB8#7                  | 20.77                           | -1.1                | -3.25               | 17.52     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 20.75                           | -1.1                | -3.25               | 17.50     | 0.056   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                  | 22.69                           | -1.1                | -3.25               | 19.44     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 22.63                           | -1.1                | -3.25               | 19.38     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 22.72                           | -1.1                | -3.25               | 19.47     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 21.62                           | -1.1                | -3.25               | 18.37     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 21.66                           | -1.1                | -3.25               | 18.41     | 0.069   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Off set) | Conducted Output AV Power (dBm) | Antenn a Gain (dBi) | Antenn a Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|------------------------|---------------------------------|---------------------|---------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 12</b> |              |           |                        |                                 |                     |                     |           |         |           |         |
|                    |              |           | RB8#7                  | 21.64                           | -1.1                | -3.25               | 18.39     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 21.59                           | -1.1                | -3.25               | 18.34     | 0.068   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.61                           | -1.1                | -3.25               | 18.36     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB1#7                  | 21.52                           | -1.1                | -3.25               | 18.27     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB1#14                 | 21.48                           | -1.1                | -3.25               | 18.23     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB8#0                  | 20.6                            | -1.1                | -3.25               | 17.35     | 0.054   | 3.00      | Pass    |
|                    |              |           | RB8#4                  | 20.67                           | -1.1                | -3.25               | 17.42     | 0.055   | 3.00      | Pass    |
|                    |              |           | RB8#7                  | 20.6                            | -1.1                | -3.25               | 17.35     | 0.054   | 3.00      | Pass    |
|                    |              |           | RB15#0                 | 20.53                           | -1.1                | -3.25               | 17.28     | 0.053   | 3.00      | Pass    |
| 5 MHz              | LCH          | QPSK      | RB1#0                  | 22.58                           | -1.1                | -3.25               | 19.33     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB1#13                 | 22.76                           | -1.1                | -3.25               | 19.51     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 22.64                           | -1.1                | -3.25               | 19.39     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 21.66                           | -1.1                | -3.25               | 18.41     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 21.78                           | -1.1                | -3.25               | 18.53     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 21.74                           | -1.1                | -3.25               | 18.49     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.7                            | -1.1                | -3.25               | 18.45     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.73                           | -1.1                | -3.25               | 18.48     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB1#13                 | 21.9                            | -1.1                | -3.25               | 18.65     | 0.073   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 21.81                           | -1.1                | -3.25               | 18.56     | 0.072   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 20.74                           | -1.1                | -3.25               | 17.49     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 20.83                           | -1.1                | -3.25               | 17.58     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 20.82                           | -1.1                | -3.25               | 17.57     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 20.75                           | -1.1                | -3.25               | 17.50     | 0.056   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                  | 22.61                           | -1.1                | -3.25               | 19.36     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB1#13                 | 22.75                           | -1.1                | -3.25               | 19.50     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 22.61                           | -1.1                | -3.25               | 19.36     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 21.72                           | -1.1                | -3.25               | 18.47     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 21.74                           | -1.1                | -3.25               | 18.49     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 21.7                            | -1.1                | -3.25               | 18.45     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 22.13                           | -1.1                | -3.25               | 18.88     | 0.077   | 3.00      | Pass    |
|                    |              |           | RB1#13                 | 22.21                           | -1.1                | -3.25               | 18.96     | 0.079   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 22.04                           | -1.1                | -3.25               | 18.79     | 0.076   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 20.8                            | -1.1                | -3.25               | 17.55     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 20.88                           | -1.1                | -3.25               | 17.63     | 0.058   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 20.83                           | -1.1                | -3.25               | 17.58     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 20.79                           | -1.1                | -3.25               | 17.54     | 0.057   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                  | 22.56                           | -1.1                | -3.25               | 19.31     | 0.085   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Off set) | Conducted Output AV Power (dBm) | Antenn a Gain (dBi) | Antenn a Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|------------------------|---------------------------------|---------------------|---------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 12</b> |              |           |                        |                                 |                     |                     |           |         |           |         |
|                    |              |           | RB1#13                 | 22.66                           | -1.1                | -3.25               | 19.41     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 22.55                           | -1.1                | -3.25               | 19.30     | 0.085   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 21.58                           | -1.1                | -3.25               | 18.33     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 21.66                           | -1.1                | -3.25               | 18.41     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 21.54                           | -1.1                | -3.25               | 18.29     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.59                           | -1.1                | -3.25               | 18.34     | 0.068   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.63                           | -1.1                | -3.25               | 18.38     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB1#13                 | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB1#24                 | 21.55                           | -1.1                | -3.25               | 18.30     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 20.67                           | -1.1                | -3.25               | 17.42     | 0.055   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 20.65                           | -1.1                | -3.25               | 17.40     | 0.055   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 20.6                            | -1.1                | -3.25               | 17.35     | 0.054   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 20.53                           | -1.1                | -3.25               | 17.28     | 0.053   | 3.00      | Pass    |
|                    |              |           |                        |                                 |                     |                     |           |         |           |         |
| 10 MHz             | LCH          | QPSK      | RB1#0                  | 22.65                           | -1.1                | -3.25               | 19.40     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.87                           | -1.1                | -3.25               | 19.62     | 0.092   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 22.71                           | -1.1                | -3.25               | 19.46     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.75                           | -1.1                | -3.25               | 18.50     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 21.74                           | -1.1                | -3.25               | 18.49     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 21.71                           | -1.1                | -3.25               | 18.46     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 21.74                           | -1.1                | -3.25               | 18.49     | 0.071   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.55                           | -1.1                | -3.25               | 18.30     | 0.068   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 21.79                           | -1.1                | -3.25               | 18.54     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 21.63                           | -1.1                | -3.25               | 18.38     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 20.77                           | -1.1                | -3.25               | 17.52     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 20.75                           | -1.1                | -3.25               | 17.50     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 20.79                           | -1.1                | -3.25               | 17.54     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 20.7                            | -1.1                | -3.25               | 17.45     | 0.056   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                  | 22.66                           | -1.1                | -3.25               | 19.41     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.83                           | -1.1                | -3.25               | 19.58     | 0.091   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 22.64                           | -1.1                | -3.25               | 19.39     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.77                           | -1.1                | -3.25               | 18.52     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 21.76                           | -1.1                | -3.25               | 18.51     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 21.76                           | -1.1                | -3.25               | 18.51     | 0.071   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 21.78                           | -1.1                | -3.25               | 18.53     | 0.071   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 21.97                           | -1.1                | -3.25               | 18.72     | 0.074   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.15                           | -1.1                | -3.25               | 18.90     | 0.078   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 21.94                           | -1.1                | -3.25               | 18.69     | 0.074   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 20.78                           | -1.1                | -3.25               | 17.53     | 0.057   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 12</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
|                    |              |           | RB25#13               | 20.83                           | -1.1               | -3.25              | 17.58     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB25#25               | 20.83                           | -1.1               | -3.25              | 17.58     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB50#0                | 20.79                           | -1.1               | -3.25              | 17.54     | 0.057   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.65                           | -1.1               | -3.25              | 19.40     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#25                | 22.9                            | -1.1               | -3.25              | 19.65     | 0.092   | 3.00      | Pass    |
|                    |              |           | RB1#49                | 22.71                           | -1.1               | -3.25              | 19.46     | 0.088   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 21.7                            | -1.1               | -3.25              | 18.45     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB25#13               | 21.69                           | -1.1               | -3.25              | 18.44     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB25#25               | 21.66                           | -1.1               | -3.25              | 18.41     | 0.069   | 3.00      | Pass    |
|                    |              |           | RB50#0                | 21.69                           | -1.1               | -3.25              | 18.44     | 0.070   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 21.68                           | -1.1               | -3.25              | 18.43     | 0.070   | 3.00      | Pass    |
|                    |              |           | RB1#25                | 21.81                           | -1.1               | -3.25              | 18.56     | 0.072   | 3.00      | Pass    |
|                    |              |           | RB1#49                | 21.52                           | -1.1               | -3.25              | 18.27     | 0.067   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 20.79                           | -1.1               | -3.25              | 17.54     | 0.057   | 3.00      | Pass    |
|                    |              |           | RB25#13               | 20.75                           | -1.1               | -3.25              | 17.50     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB25#25               | 20.74                           | -1.1               | -3.25              | 17.49     | 0.056   | 3.00      | Pass    |
|                    |              |           | RB50#0                | 20.7                            | -1.1               | -3.25              | 17.45     | 0.056   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 17</b> |              |           |                       |                                 |                    |                    |           |         |           |         |
| 5 MHz              | LCH          | QPSK      | RB1#0                 | 23.21                           | -1.1               | -3.25              | 19.96     | 0.099   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 23.38                           | -1.1               | -3.25              | 20.13     | 0.103   | 3.00      | Pass    |
|                    |              |           | RB1#24                | 23.23                           | -1.1               | -3.25              | 19.98     | 0.100   | 3.00      | Pass    |
|                    |              |           | RB12#0                | 22.28                           | -1.1               | -3.25              | 19.03     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB12#6                | 22.34                           | -1.1               | -3.25              | 19.09     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB12#13               | 22.28                           | -1.1               | -3.25              | 19.03     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 22.26                           | -1.1               | -3.25              | 19.01     | 0.080   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.35                           | -1.1               | -3.25              | 19.10     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 22.51                           | -1.1               | -3.25              | 19.26     | 0.084   | 3.00      | Pass    |
|                    |              |           | RB1#24                | 22.4                            | -1.1               | -3.25              | 19.15     | 0.082   | 3.00      | Pass    |
|                    |              |           | RB12#0                | 21.37                           | -1.1               | -3.25              | 18.12     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB12#6                | 21.39                           | -1.1               | -3.25              | 18.14     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB12#13               | 21.34                           | -1.1               | -3.25              | 18.09     | 0.064   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 21.31                           | -1.1               | -3.25              | 18.06     | 0.064   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.2                            | -1.1               | -3.25              | 19.95     | 0.099   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 23.34                           | -1.1               | -3.25              | 20.09     | 0.102   | 3.00      | Pass    |
|                    |              |           | RB1#24                | 23.17                           | -1.1               | -3.25              | 19.92     | 0.098   | 3.00      | Pass    |
|                    |              |           | RB12#0                | 22.3                            | -1.1               | -3.25              | 19.05     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB12#6                | 22.33                           | -1.1               | -3.25              | 19.08     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB12#13               | 22.33                           | -1.1               | -3.25              | 19.08     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 22.31                           | -1.1               | -3.25              | 19.06     | 0.081   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.63                           | -1.1               | -3.25              | 19.38     | 0.087   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 22.79                           | -1.1               | -3.25              | 19.54     | 0.090   | 3.00      | Pass    |
|                    |              |           | RB1#24                | 22.59                           | -1.1               | -3.25              | 19.34     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB12#0                | 21.36                           | -1.1               | -3.25              | 18.11     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB12#6                | 21.42                           | -1.1               | -3.25              | 18.17     | 0.066   | 3.00      | Pass    |
|                    |              |           | RB12#13               | 21.38                           | -1.1               | -3.25              | 18.13     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 21.34                           | -1.1               | -3.25              | 18.09     | 0.064   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 23.17                           | -1.1               | -3.25              | 19.92     | 0.098   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 23.31                           | -1.1               | -3.25              | 20.06     | 0.101   | 3.00      | Pass    |
|                    |              |           | RB1#24                | 23.22                           | -1.1               | -3.25              | 19.97     | 0.099   | 3.00      | Pass    |
|                    |              |           | RB12#0                | 22.21                           | -1.1               | -3.25              | 18.96     | 0.079   | 3.00      | Pass    |
|                    |              |           | RB12#6                | 22.26                           | -1.1               | -3.25              | 19.01     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB12#13               | 22.2                            | -1.1               | -3.25              | 18.95     | 0.079   | 3.00      | Pass    |
|                    |              |           | RB25#0                | 22.22                           | -1.1               | -3.25              | 18.97     | 0.079   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.23                           | -1.1               | -3.25              | 18.98     | 0.079   | 3.00      | Pass    |
|                    |              |           | RB1#13                | 22.32                           | -1.1               | -3.25              | 19.07     | 0.081   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Off set) | Conducted Output AV Power (dBm) | Antenn a Gain (dBi) | Antenn a Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|------------------------|---------------------------------|---------------------|---------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 17</b> |              |           |                        |                                 |                     |                     |           |         |           |         |
| 10 MHz             |              |           | RB1#24                 | 22.17                           | -1.1                | -3.25               | 18.92     | 0.078   | 3.00      | Pass    |
|                    |              |           | RB12#0                 | 21.22                           | -1.1                | -3.25               | 17.97     | 0.063   | 3.00      | Pass    |
|                    |              |           | RB12#6                 | 21.31                           | -1.1                | -3.25               | 18.06     | 0.064   | 3.00      | Pass    |
|                    |              |           | RB12#13                | 21.2                            | -1.1                | -3.25               | 17.95     | 0.062   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.17                           | -1.1                | -3.25               | 17.92     | 0.062   | 3.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                  | 23.24                           | -1.1                | -3.25               | 19.99     | 0.100   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 23.45                           | -1.1                | -3.25               | 20.20     | 0.105   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 23.26                           | -1.1                | -3.25               | 20.01     | 0.100   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 22.33                           | -1.1                | -3.25               | 19.08     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 22.32                           | -1.1                | -3.25               | 19.07     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 22.37                           | -1.1                | -3.25               | 19.12     | 0.082   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 22.36                           | -1.1                | -3.25               | 19.11     | 0.081   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 22.17                           | -1.1                | -3.25               | 18.92     | 0.078   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.37                           | -1.1                | -3.25               | 19.12     | 0.082   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 22.06                           | -1.1                | -3.25               | 18.81     | 0.076   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.36                           | -1.1                | -3.25               | 18.11     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 21.36                           | -1.1                | -3.25               | 18.11     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 21.39                           | -1.1                | -3.25               | 18.14     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 21.36                           | -1.1                | -3.25               | 18.11     | 0.065   | 3.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                  | 23.23                           | -1.1                | -3.25               | 19.98     | 0.100   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 23.46                           | -1.1                | -3.25               | 20.21     | 0.105   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 23.29                           | -1.1                | -3.25               | 20.04     | 0.101   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 22.36                           | -1.1                | -3.25               | 19.11     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 22.33                           | -1.1                | -3.25               | 19.08     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 22.34                           | -1.1                | -3.25               | 19.09     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 22.37                           | -1.1                | -3.25               | 19.12     | 0.082   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 22.6                            | -1.1                | -3.25               | 19.35     | 0.086   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.74                           | -1.1                | -3.25               | 19.49     | 0.089   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 22.47                           | -1.1                | -3.25               | 19.22     | 0.084   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.4                            | -1.1                | -3.25               | 18.15     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 21.35                           | -1.1                | -3.25               | 18.10     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 21.33                           | -1.1                | -3.25               | 18.08     | 0.064   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 21.37                           | -1.1                | -3.25               | 18.12     | 0.065   | 3.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                  | 23.29                           | -1.1                | -3.25               | 20.04     | 0.101   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 23.52                           | -1.1                | -3.25               | 20.27     | 0.106   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 23.33                           | -1.1                | -3.25               | 20.08     | 0.102   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 22.32                           | -1.1                | -3.25               | 19.07     | 0.081   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 22.33                           | -1.1                | -3.25               | 19.08     | 0.081   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Off set) | Conducted Output AV Power (dBm) | Antenn a Gain (dBi) | Antenn a Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|------------------------|---------------------------------|---------------------|---------------------|-----------|---------|-----------|---------|
| <b>LTE BAND 17</b> |              |           |                        |                                 |                     |                     |           |         |           |         |
|                    |              |           | RB25#25                | 22.27                           | -1.1                | -3.25               | 19.02     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 22.27                           | -1.1                | -3.25               | 19.02     | 0.080   | 3.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                  | 22.29                           | -1.1                | -3.25               | 19.04     | 0.080   | 3.00      | Pass    |
|                    |              |           | RB1#25                 | 22.38                           | -1.1                | -3.25               | 19.13     | 0.082   | 3.00      | Pass    |
|                    |              |           | RB1#49                 | 22.14                           | -1.1                | -3.25               | 18.89     | 0.077   | 3.00      | Pass    |
|                    |              |           | RB25#0                 | 21.4                            | -1.1                | -3.25               | 18.15     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#13                | 21.37                           | -1.1                | -3.25               | 18.12     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB25#25                | 21.35                           | -1.1                | -3.25               | 18.10     | 0.065   | 3.00      | Pass    |
|                    |              |           | RB50#0                 | 21.31                           | -1.1                | -3.25               | 18.06     | 0.064   | 3.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 38</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz              | LCH          | QPSK      | RB1#0                 | 23.13                           | -1.4               | 21.73      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 23.23                           | -1.4               | 21.83      | 0.152    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 23.11                           | -1.4               | 21.71      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 22.19                           | -1.4               | 20.79      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22.24                           | -1.4               | 20.84      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 22.17                           | -1.4               | 20.77      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.17                           | -1.4               | 20.77      | 0.119    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.53                           | -1.4               | 21.13      | 0.130    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.61                           | -1.4               | 21.21      | 0.132    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.48                           | -1.4               | 21.08      | 0.128    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.32                           | -1.4               | 19.92      | 0.098    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.37                           | -1.4               | 19.97      | 0.099    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.31                           | -1.4               | 19.91      | 0.098    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.23                           | -1.4               | 19.83      | 0.096    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 22.96                           | -1.4               | 21.56      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 23.04                           | -1.4               | 21.64      | 0.146    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.91                           | -1.4               | 21.51      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 22.05                           | -1.4               | 20.65      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22.1                            | -1.4               | 20.70      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 22.05                           | -1.4               | 20.65      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.07                           | -1.4               | 20.67      | 0.117    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.18                           | -1.4               | 20.78      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.29                           | -1.4               | 20.89      | 0.123    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.14                           | -1.4               | 20.74      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.15                           | -1.4               | 19.75      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.18                           | -1.4               | 19.78      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.11                           | -1.4               | 19.71      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.09                           | -1.4               | 19.69      | 0.093    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.91                           | -1.4               | 21.51      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.99                           | -1.4               | 21.59      | 0.144    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.89                           | -1.4               | 21.49      | 0.141    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.94                           | -1.4               | 20.54      | 0.113    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22                              | -1.4               | 20.60      | 0.115    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.95                           | -1.4               | 20.55      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.91                           | -1.4               | 20.51      | 0.112    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.08                           | -1.4               | 20.68      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.23                           | -1.4               | 20.83      | 0.121    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 38</b> |              |           |                       |                                 |                    |            |          |           |         |
| 10 MHz             |              |           | RB1#24                | 22.12                           | -1.4               | 20.72      | 0.118    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 20.92                           | -1.4               | 19.52      | 0.090    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.01                           | -1.4               | 19.61      | 0.091    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 20.93                           | -1.4               | 19.53      | 0.090    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 20.99                           | -1.4               | 19.59      | 0.091    | 2.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                 | 23.18                           | -1.4               | 21.78      | 0.151    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.41                           | -1.4               | 22.01      | 0.159    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 23.08                           | -1.4               | 21.68      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.25                           | -1.4               | 20.85      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22.21                           | -1.4               | 20.81      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 22.25                           | -1.4               | 20.85      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.23                           | -1.4               | 20.83      | 0.121    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.49                           | -1.4               | 21.09      | 0.129    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.7                            | -1.4               | 21.30      | 0.135    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.42                           | -1.4               | 21.02      | 0.126    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.3                            | -1.4               | 19.90      | 0.098    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.28                           | -1.4               | 19.88      | 0.097    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.29                           | -1.4               | 19.89      | 0.097    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.3                            | -1.4               | 19.90      | 0.098    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.15                           | -1.4               | 21.75      | 0.150    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.37                           | -1.4               | 21.97      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 23.05                           | -1.4               | 21.65      | 0.146    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.14                           | -1.4               | 20.74      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22.13                           | -1.4               | 20.73      | 0.118    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 22.1                            | -1.4               | 20.70      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.14                           | -1.4               | 20.74      | 0.119    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.52                           | -1.4               | 21.12      | 0.129    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.75                           | -1.4               | 21.35      | 0.136    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.43                           | -1.4               | 21.03      | 0.127    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.2                            | -1.4               | 19.80      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.14                           | -1.4               | 19.74      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.14                           | -1.4               | 19.74      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.21                           | -1.4               | 19.81      | 0.096    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 23.06                           | -1.4               | 21.66      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.35                           | -1.4               | 21.95      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 23.01                           | -1.4               | 21.61      | 0.145    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.03                           | -1.4               | 20.63      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22                              | -1.4               | 20.60      | 0.115    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 38</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB25#25               | 22.01                           | -1.4               | 20.61      | 0.115    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.02                           | -1.4               | 20.62      | 0.115    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.37                           | -1.4               | 20.97      | 0.125    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.64                           | -1.4               | 21.24      | 0.133    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.32                           | -1.4               | 20.92      | 0.124    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.13                           | -1.4               | 19.73      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.08                           | -1.4               | 19.68      | 0.093    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.06                           | -1.4               | 19.66      | 0.092    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.09                           | -1.4               | 19.69      | 0.093    | 2.00      | Pass    |
| 15 MHz             | LCH          | QPSK      | RB1#0                 | 23.14                           | -1.4               | 21.74      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 23.23                           | -1.4               | 21.83      | 0.152    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 23.02                           | -1.4               | 21.62      | 0.145    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.27                           | -1.4               | 20.87      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.27                           | -1.4               | 20.87      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.23                           | -1.4               | 20.83      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.31                           | -1.4               | 20.91      | 0.123    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.41                           | -1.4               | 21.01      | 0.126    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.5                            | -1.4               | 21.10      | 0.129    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.29                           | -1.4               | 20.89      | 0.123    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.25                           | -1.4               | 19.85      | 0.097    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.28                           | -1.4               | 19.88      | 0.097    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21.21                           | -1.4               | 19.81      | 0.096    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.27                           | -1.4               | 19.87      | 0.097    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.05                           | -1.4               | 21.65      | 0.146    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 23.15                           | -1.4               | 21.75      | 0.150    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.98                           | -1.4               | 21.58      | 0.144    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.23                           | -1.4               | 20.83      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.18                           | -1.4               | 20.78      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.15                           | -1.4               | 20.75      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.18                           | -1.4               | 20.78      | 0.120    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.5                            | -1.4               | 21.10      | 0.129    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.52                           | -1.4               | 21.12      | 0.129    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.35                           | -1.4               | 20.95      | 0.124    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.16                           | -1.4               | 19.76      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.14                           | -1.4               | 19.74      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21.1                            | -1.4               | 19.70      | 0.093    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.15                           | -1.4               | 19.75      | 0.094    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.99                           | -1.4               | 21.59      | 0.144    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 38</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB1#38                | 23.09                           | -1.4               | 21.69      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.93                           | -1.4               | 21.53      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.11                           | -1.4               | 20.71      | 0.118    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.1                            | -1.4               | 20.70      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.06                           | -1.4               | 20.66      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.11                           | -1.4               | 20.71      | 0.118    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.27                           | -1.4               | 20.87      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.36                           | -1.4               | 20.96      | 0.125    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.16                           | -1.4               | 20.76      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.11                           | -1.4               | 19.71      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.09                           | -1.4               | 19.69      | 0.093    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21.06                           | -1.4               | 19.66      | 0.092    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.09                           | -1.4               | 19.69      | 0.093    | 2.00      | Pass    |
| 20 MHz             | LCH          | QPSK      | RB1#0                 | 23                              | -1.4               | 21.60      | 0.145    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.49                           | -1.4               | 22.09      | 0.162    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.81                           | -1.4               | 21.41      | 0.138    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.22                           | -1.4               | 20.82      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 22.29                           | -1.4               | 20.89      | 0.123    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 22.17                           | -1.4               | 20.77      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 22.2                            | -1.4               | 20.80      | 0.120    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.26                           | -1.4               | 20.86      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.78                           | -1.4               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.1                            | -1.4               | 20.70      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.24                           | -1.4               | 19.84      | 0.096    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 21.31                           | -1.4               | 19.91      | 0.098    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.2                            | -1.4               | 19.80      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.29                           | -1.4               | 19.89      | 0.097    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 22.88                           | -1.4               | 21.48      | 0.141    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.36                           | -1.4               | 21.96      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.78                           | -1.4               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.2                            | -1.4               | 20.80      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 22.18                           | -1.4               | 20.78      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 22.06                           | -1.4               | 20.66      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 22.15                           | -1.4               | 20.75      | 0.119    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.09                           | -1.4               | 20.69      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.53                           | -1.4               | 21.13      | 0.130    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 21.97                           | -1.4               | 20.57      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.17                           | -1.4               | 19.77      | 0.095    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 38</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB50#25               | 21.23                           | -1.4               | 19.83      | 0.096    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.14                           | -1.4               | 19.74      | 0.094    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.19                           | -1.4               | 19.79      | 0.095    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.91                           | -1.4               | 21.51      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.37                           | -1.4               | 21.97      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.78                           | -1.4               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.03                           | -1.4               | 20.63      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 22.08                           | -1.4               | 20.68      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.95                           | -1.4               | 20.55      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 22.01                           | -1.4               | 20.61      | 0.115    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.27                           | -1.4               | 20.87      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.69                           | -1.4               | 21.29      | 0.135    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.09                           | -1.4               | 20.69      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.17                           | -1.4               | 19.77      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 21.16                           | -1.4               | 19.76      | 0.095    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.05                           | -1.4               | 19.65      | 0.092    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.05                           | -1.4               | 19.65      | 0.092    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 41</b> |              |           |                       |                                 |                    |            |          |           |         |
| 5 MHz              | LCH          | QPSK      | RB1#0                 | 23.15                           | -0.6               | 22.55      | 0.180    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 23.24                           | -0.6               | 22.64      | 0.184    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 23.17                           | -0.6               | 22.57      | 0.181    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 22.26                           | -0.6               | 21.66      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22.33                           | -0.6               | 21.73      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 22.25                           | -0.6               | 21.65      | 0.146    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.27                           | -0.6               | 21.67      | 0.147    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.39                           | -0.6               | 21.79      | 0.151    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.5                            | -0.6               | 21.90      | 0.155    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.41                           | -0.6               | 21.81      | 0.152    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.38                           | -0.6               | 20.78      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.46                           | -0.6               | 20.86      | 0.122    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.43                           | -0.6               | 20.83      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.32                           | -0.6               | 20.72      | 0.118    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.04                           | -0.6               | 22.44      | 0.175    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 23.11                           | -0.6               | 22.51      | 0.178    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 23                              | -0.6               | 22.40      | 0.174    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 22.1                            | -0.6               | 21.50      | 0.141    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22.16                           | -0.6               | 21.56      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 22.1                            | -0.6               | 21.50      | 0.141    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.1                            | -0.6               | 21.50      | 0.141    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.29                           | -0.6               | 21.69      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.39                           | -0.6               | 21.79      | 0.151    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.28                           | -0.6               | 21.68      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.14                           | -0.6               | 20.54      | 0.113    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.19                           | -0.6               | 20.59      | 0.115    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.1                            | -0.6               | 20.50      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.22                           | -0.6               | 20.62      | 0.115    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.84                           | -0.6               | 22.24      | 0.167    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.98                           | -0.6               | 22.38      | 0.173    | 2.00      | Pass    |
|                    |              |           | RB1#24                | 22.87                           | -0.6               | 22.27      | 0.169    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.98                           | -0.6               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 22.03                           | -0.6               | 21.43      | 0.139    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.98                           | -0.6               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.93                           | -0.6               | 21.33      | 0.136    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.22                           | -0.6               | 21.62      | 0.145    | 2.00      | Pass    |
|                    |              |           | RB1#13                | 22.34                           | -0.6               | 21.74      | 0.149    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 41</b> |              |           |                       |                                 |                    |            |          |           |         |
| 10 MHz             |              |           | RB1#24                | 22.23                           | -0.6               | 21.63      | 0.146    | 2.00      | Pass    |
|                    |              |           | RB12#0                | 21.1                            | -0.6               | 20.50      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB12#6                | 21.17                           | -0.6               | 20.57      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB12#13               | 21.07                           | -0.6               | 20.47      | 0.111    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.04                           | -0.6               | 20.44      | 0.111    | 2.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                 | 23.22                           | -0.6               | 22.62      | 0.183    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.55                           | -0.6               | 22.95      | 0.197    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 23.22                           | -0.6               | 22.62      | 0.183    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.29                           | -0.6               | 21.69      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22.34                           | -0.6               | 21.74      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 22.37                           | -0.6               | 21.77      | 0.150    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.34                           | -0.6               | 21.74      | 0.149    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.49                           | -0.6               | 21.89      | 0.155    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.8                            | -0.6               | 22.20      | 0.166    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.5                            | -0.6               | 21.90      | 0.155    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.36                           | -0.6               | 20.76      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.41                           | -0.6               | 20.81      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.42                           | -0.6               | 20.82      | 0.121    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.41                           | -0.6               | 20.81      | 0.121    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.17                           | -0.6               | 22.57      | 0.181    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.42                           | -0.6               | 22.82      | 0.191    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 23.07                           | -0.6               | 22.47      | 0.177    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 22.19                           | -0.6               | 21.59      | 0.144    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22.14                           | -0.6               | 21.54      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 22.15                           | -0.6               | 21.55      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.19                           | -0.6               | 21.59      | 0.144    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.57                           | -0.6               | 21.97      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.8                            | -0.6               | 22.20      | 0.166    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.48                           | -0.6               | 21.88      | 0.154    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.26                           | -0.6               | 20.66      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.2                            | -0.6               | 20.60      | 0.115    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.17                           | -0.6               | 20.57      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.25                           | -0.6               | 20.65      | 0.116    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 23.04                           | -0.6               | 22.44      | 0.175    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 23.3                            | -0.6               | 22.70      | 0.186    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.98                           | -0.6               | 22.38      | 0.173    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.98                           | -0.6               | 21.38      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 22.01                           | -0.6               | 21.41      | 0.138    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 41</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB25#25               | 21.97                           | -0.6               | 21.37      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.99                           | -0.6               | 21.39      | 0.138    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.28                           | -0.6               | 21.68      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB1#25                | 22.57                           | -0.6               | 21.97      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#49                | 22.33                           | -0.6               | 21.73      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB25#0                | 21.1                            | -0.6               | 20.50      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB25#13               | 21.09                           | -0.6               | 20.49      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB25#25               | 21.04                           | -0.6               | 20.44      | 0.111    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.11                           | -0.6               | 20.51      | 0.112    | 2.00      | Pass    |
| 15 MHz             | LCH          | QPSK      | RB1#0                 | 23.12                           | -0.6               | 22.52      | 0.179    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 23.27                           | -0.6               | 22.67      | 0.185    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 23.18                           | -0.6               | 22.58      | 0.181    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.27                           | -0.6               | 21.67      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.34                           | -0.6               | 21.74      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.35                           | -0.6               | 21.75      | 0.150    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.33                           | -0.6               | 21.73      | 0.149    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.45                           | -0.6               | 21.85      | 0.153    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.57                           | -0.6               | 21.97      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.44                           | -0.6               | 21.84      | 0.153    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.25                           | -0.6               | 20.65      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.3                            | -0.6               | 20.70      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21.33                           | -0.6               | 20.73      | 0.118    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.36                           | -0.6               | 20.76      | 0.119    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 23.11                           | -0.6               | 22.51      | 0.178    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 23.12                           | -0.6               | 22.52      | 0.179    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.96                           | -0.6               | 22.36      | 0.172    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.21                           | -0.6               | 21.61      | 0.145    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.16                           | -0.6               | 21.56      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.12                           | -0.6               | 21.52      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.18                           | -0.6               | 21.58      | 0.144    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.55                           | -0.6               | 21.95      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.58                           | -0.6               | 21.98      | 0.158    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.38                           | -0.6               | 21.78      | 0.151    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.17                           | -0.6               | 20.57      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.11                           | -0.6               | 20.51      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21.08                           | -0.6               | 20.48      | 0.112    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.19                           | -0.6               | 20.59      | 0.115    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.93                           | -0.6               | 22.33      | 0.171    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 41</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB1#38                | 23.01                           | -0.6               | 22.41      | 0.174    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.88                           | -0.6               | 22.28      | 0.169    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 22.05                           | -0.6               | 21.45      | 0.140    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 22.06                           | -0.6               | 21.46      | 0.140    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 22.02                           | -0.6               | 21.42      | 0.139    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 22.06                           | -0.6               | 21.46      | 0.140    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.14                           | -0.6               | 21.54      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB1#38                | 22.26                           | -0.6               | 21.66      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB1#74                | 22.19                           | -0.6               | 21.59      | 0.144    | 2.00      | Pass    |
|                    |              |           | RB36#0                | 21.02                           | -0.6               | 20.42      | 0.110    | 2.00      | Pass    |
|                    |              |           | RB36#19               | 21.01                           | -0.6               | 20.41      | 0.110    | 2.00      | Pass    |
|                    |              |           | RB36#39               | 21                              | -0.6               | 20.40      | 0.110    | 2.00      | Pass    |
|                    |              |           | RB75#0                | 21.04                           | -0.6               | 20.44      | 0.111    | 2.00      | Pass    |
|                    |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz             | LCH          | QPSK      | RB1#0                 | 22.97                           | -0.6               | 22.37      | 0.173    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.5                            | -0.6               | 22.90      | 0.195    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 23.02                           | -0.6               | 22.42      | 0.175    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.28                           | -0.6               | 21.68      | 0.147    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 22.34                           | -0.6               | 21.74      | 0.149    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 22.37                           | -0.6               | 21.77      | 0.150    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 22.3                            | -0.6               | 21.70      | 0.148    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.3                            | -0.6               | 21.70      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.81                           | -0.6               | 22.21      | 0.166    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.31                           | -0.6               | 21.71      | 0.148    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.29                           | -0.6               | 20.69      | 0.117    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 21.39                           | -0.6               | 20.79      | 0.120    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.37                           | -0.6               | 20.77      | 0.119    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.34                           | -0.6               | 20.74      | 0.119    | 2.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 22.91                           | -0.6               | 22.31      | 0.170    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.33                           | -0.6               | 22.73      | 0.187    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.76                           | -0.6               | 22.16      | 0.164    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 22.14                           | -0.6               | 21.54      | 0.143    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 22.18                           | -0.6               | 21.58      | 0.144    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 22.11                           | -0.6               | 21.51      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 22.14                           | -0.6               | 21.54      | 0.143    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.12                           | -0.6               | 21.52      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.55                           | -0.6               | 21.95      | 0.157    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 21.96                           | -0.6               | 21.36      | 0.137    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.2                            | -0.6               | 20.60      | 0.115    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 41</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB50#25               | 21.24                           | -0.6               | 20.64      | 0.116    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.16                           | -0.6               | 20.56      | 0.114    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.18                           | -0.6               | 20.58      | 0.114    | 2.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 22.82                           | -0.6               | 22.22      | 0.167    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 23.29                           | -0.6               | 22.69      | 0.186    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.76                           | -0.6               | 22.16      | 0.164    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.94                           | -0.6               | 21.34      | 0.136    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 21.99                           | -0.6               | 21.39      | 0.138    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.93                           | -0.6               | 21.33      | 0.136    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 21.96                           | -0.6               | 21.36      | 0.137    | 2.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 22.1                            | -0.6               | 21.50      | 0.141    | 2.00      | Pass    |
|                    |              |           | RB1#50                | 22.6                            | -0.6               | 22.00      | 0.158    | 2.00      | Pass    |
|                    |              |           | RB1#99                | 22.13                           | -0.6               | 21.53      | 0.142    | 2.00      | Pass    |
|                    |              |           | RB50#0                | 21.02                           | -0.6               | 20.42      | 0.110    | 2.00      | Pass    |
|                    |              |           | RB50#25               | 21.07                           | -0.6               | 20.47      | 0.111    | 2.00      | Pass    |
|                    |              |           | RB50#50               | 21.02                           | -0.6               | 20.42      | 0.110    | 2.00      | Pass    |
|                    |              |           | RB100#0               | 20.98                           | -0.6               | 20.38      | 0.109    | 2.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 1.4 MHz            | LCH          | QPSK      | RB1#0                 | 17.28                           | -0.3               | 16.98      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 17.46                           | -0.3               | 17.16      | 0.052    | 1.00      | Pass    |
|                    |              |           | RB1#5                 | 17.32                           | -0.3               | 17.02      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 17.34                           | -0.3               | 17.04      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 17.41                           | -0.3               | 17.11      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 17.34                           | -0.3               | 17.04      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 16.39                           | -0.3               | 16.09      | 0.041    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.32                           | -0.3               | 16.02      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 16.51                           | -0.3               | 16.21      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#5                 | 16.31                           | -0.3               | 16.01      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 16.34                           | -0.3               | 16.04      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 16.38                           | -0.3               | 16.08      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 16.32                           | -0.3               | 16.02      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 15.48                           | -0.3               | 15.18      | 0.033    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.19                           | -0.3               | 16.89      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 17.35                           | -0.3               | 17.05      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#5                 | 17.18                           | -0.3               | 16.88      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 17.29                           | -0.3               | 16.99      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 16.27                           | -0.3               | 15.97      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.5                            | -0.3               | 16.20      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 16.65                           | -0.3               | 16.35      | 0.043    | 1.00      | Pass    |
|                    |              |           | RB1#5                 | 16.48                           | -0.3               | 16.18      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 16.37                           | -0.3               | 16.07      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 16.38                           | -0.3               | 16.08      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 16.4                            | -0.3               | 16.10      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 15.14                           | -0.3               | 14.84      | 0.030    | 1.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 17.23                           | -0.3               | 16.93      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 17.43                           | -0.3               | 17.13      | 0.052    | 1.00      | Pass    |
|                    |              |           | RB1#5                 | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 17.31                           | -0.3               | 17.01      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 17.27                           | -0.3               | 16.97      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 16.32                           | -0.3               | 16.02      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.13                           | -0.3               | 15.83      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#3                 | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 3 MHz              |              |           | RB1#5                 | 16.12                           | -0.3               | 15.82      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB3#0                 | 16.33                           | -0.3               | 16.03      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB3#2                 | 16.39                           | -0.3               | 16.09      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB3#3                 | 16.34                           | -0.3               | 16.04      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB6#0                 | 15.4                            | -0.3               | 15.10      | 0.032    | 1.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                 | 17.31                           | -0.3               | 17.01      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 17.29                           | -0.3               | 16.99      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 17.29                           | -0.3               | 16.99      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 16.37                           | -0.3               | 16.07      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 16.41                           | -0.3               | 16.11      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB8#7                 | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 16.29                           | -0.3               | 15.99      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.17                           | -0.3               | 15.87      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 16.15                           | -0.3               | 15.85      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 16.18                           | -0.3               | 15.88      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 15.4                            | -0.3               | 15.10      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 15.47                           | -0.3               | 15.17      | 0.033    | 1.00      | Pass    |
|                    |              |           | RB8#7                 | 15.39                           | -0.3               | 15.09      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 15.32                           | -0.3               | 15.02      | 0.032    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 17.19                           | -0.3               | 16.89      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 16.23                           | -0.3               | 15.93      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB8#7                 | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.17                           | -0.3               | 15.87      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 16.13                           | -0.3               | 15.83      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 16.1                            | -0.3               | 15.80      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 15.22                           | -0.3               | 14.92      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 15.25                           | -0.3               | 14.95      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB8#7                 | 15.19                           | -0.3               | 14.89      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 15.16                           | -0.3               | 14.86      | 0.031    | 1.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 17.28                           | -0.3               | 16.98      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 16.26                           | -0.3               | 15.96      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 16.29                           | -0.3               | 15.99      | 0.040    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB8#7                 | 16.25                           | -0.3               | 15.95      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 16.21                           | -0.3               | 15.91      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.08                           | -0.3               | 15.78      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#7                 | 16.05                           | -0.3               | 15.75      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#14                | 16                              | -0.3               | 15.70      | 0.037    | 1.00      | Pass    |
|                    |              |           | RB8#0                 | 15.32                           | -0.3               | 15.02      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB8#4                 | 15.38                           | -0.3               | 15.08      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB8#7                 | 15.31                           | -0.3               | 15.01      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB15#0                | 15.21                           | -0.3               | 14.91      | 0.031    | 1.00      | Pass    |
| 5 MHz              | LCH          | QPSK      | RB1#0                 | 17.18                           | -0.3               | 16.88      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#13                | 17.34                           | -0.3               | 17.04      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 16.33                           | -0.3               | 16.03      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 16.35                           | -0.3               | 16.05      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 16.31                           | -0.3               | 16.01      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.28                           | -0.3               | 15.98      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#13                | 16.49                           | -0.3               | 16.19      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 16.36                           | -0.3               | 16.06      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 15.34                           | -0.3               | 15.04      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 15.39                           | -0.3               | 15.09      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 15.43                           | -0.3               | 15.13      | 0.033    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.3                            | -0.3               | 15.00      | 0.032    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.09                           | -0.3               | 16.79      | 0.048    | 1.00      | Pass    |
|                    |              |           | RB1#13                | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 17.07                           | -0.3               | 16.77      | 0.048    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 16.17                           | -0.3               | 15.87      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 16.23                           | -0.3               | 15.93      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 16.12                           | -0.3               | 15.82      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.15                           | -0.3               | 15.85      | 0.038    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.52                           | -0.3               | 16.22      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#13                | 16.64                           | -0.3               | 16.34      | 0.043    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 16.55                           | -0.3               | 16.25      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 15.27                           | -0.3               | 14.97      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 15.32                           | -0.3               | 15.02      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 15.23                           | -0.3               | 14.93      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.22                           | -0.3               | 14.92      | 0.031    | 1.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 17.08                           | -0.3               | 16.78      | 0.048    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB1#13                | 17.26                           | -0.3               | 16.96      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 17.16                           | -0.3               | 16.86      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 16.24                           | -0.3               | 15.94      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 16.21                           | -0.3               | 15.91      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.14                           | -0.3               | 15.84      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#13                | 16.31                           | -0.3               | 16.01      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#24                | 16.15                           | -0.3               | 15.85      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB12#0                | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB12#6                | 15.28                           | -0.3               | 14.98      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB12#13               | 15.19                           | -0.3               | 14.89      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.14                           | -0.3               | 14.84      | 0.030    | 1.00      | Pass    |
| 10 MHz             | LCH          | QPSK      | RB1#0                 | 17.28                           | -0.3               | 16.98      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 17.47                           | -0.3               | 17.17      | 0.052    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 17.24                           | -0.3               | 16.94      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.26                           | -0.3               | 15.96      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#13               | 16.34                           | -0.3               | 16.04      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 16.37                           | -0.3               | 16.07      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 16.37                           | -0.3               | 16.07      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.13                           | -0.3               | 15.83      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 16.4                            | -0.3               | 16.10      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 16.18                           | -0.3               | 15.88      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.32                           | -0.3               | 15.02      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB25#13               | 15.38                           | -0.3               | 15.08      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 15.44                           | -0.3               | 15.14      | 0.033    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.36                           | -0.3               | 15.06      | 0.032    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.18                           | -0.3               | 16.88      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 17.34                           | -0.3               | 17.04      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 17.16                           | -0.3               | 16.86      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.32                           | -0.3               | 16.02      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB25#13               | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 16.18                           | -0.3               | 15.88      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 16.21                           | -0.3               | 15.91      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.46                           | -0.3               | 16.16      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 16.59                           | -0.3               | 16.29      | 0.043    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 16.53                           | -0.3               | 16.23      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.33                           | -0.3               | 15.03      | 0.032    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 15 MHz             | HCH          |           | RB25#13               | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 15.19                           | -0.3               | 14.89      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.25                           | -0.3               | 14.95      | 0.031    | 1.00      | Pass    |
|                    |              | QPSK      | RB1#0                 | 17.21                           | -0.3               | 16.91      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 17.36                           | -0.3               | 17.06      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 17.27                           | -0.3               | 16.97      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#13               | 16.25                           | -0.3               | 15.95      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 16.23                           | -0.3               | 15.93      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 16.26                           | -0.3               | 15.96      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.21                           | -0.3               | 15.91      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB1#25                | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#49                | 16.12                           | -0.3               | 15.82      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB25#0                | 15.28                           | -0.3               | 14.98      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB25#13               | 15.31                           | -0.3               | 15.01      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB25#25               | 15.31                           | -0.3               | 15.01      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.26                           | -0.3               | 14.96      | 0.031    | 1.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                 | 17.2                            | -0.3               | 16.90      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 17.32                           | -0.3               | 17.02      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 17.19                           | -0.3               | 16.89      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 16.35                           | -0.3               | 16.05      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 16.41                           | -0.3               | 16.11      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 16.45                           | -0.3               | 16.15      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 16.43                           | -0.3               | 16.13      | 0.041    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.07                           | -0.3               | 15.77      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 16.19                           | -0.3               | 15.89      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 16.08                           | -0.3               | 15.78      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 15.25                           | -0.3               | 14.95      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 15.34                           | -0.3               | 15.04      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 15.4                            | -0.3               | 15.10      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 15.37                           | -0.3               | 15.07      | 0.032    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.1                            | -0.3               | 16.80      | 0.048    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 17.2                            | -0.3               | 16.90      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 17.05                           | -0.3               | 16.75      | 0.047    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 16.38                           | -0.3               | 16.08      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 16.26                           | -0.3               | 15.96      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 16.32                           | -0.3               | 16.02      | 0.040    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
| 20 MHz             | HCH          | 16-QAM    | RB1#0                 | 16.39                           | -0.3               | 16.09      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 16.46                           | -0.3               | 16.16      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 16.42                           | -0.3               | 16.12      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 15.33                           | -0.3               | 15.03      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 15.27                           | -0.3               | 14.97      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 15.27                           | -0.3               | 14.97      | 0.031    | 1.00      | Pass    |
|                    |              | QPSK      | RB1#0                 | 17.17                           | -0.3               | 16.87      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 17.29                           | -0.3               | 16.99      | 0.050    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 17.18                           | -0.3               | 16.88      | 0.049    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 16.29                           | -0.3               | 15.99      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 16.36                           | -0.3               | 16.06      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 16.34                           | -0.3               | 16.04      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 16.31                           | -0.3               | 16.01      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.52                           | -0.3               | 16.22      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#38                | 16.57                           | -0.3               | 16.27      | 0.042    | 1.00      | Pass    |
|                    |              |           | RB1#74                | 16.41                           | -0.3               | 16.11      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB36#0                | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB36#19               | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB36#39               | 15.25                           | -0.3               | 14.95      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB75#0                | 15.27                           | -0.3               | 14.97      | 0.031    | 1.00      | Pass    |
|                    | LCH          | QPSK      | RB1#0                 | 16.99                           | -0.3               | 16.69      | 0.047    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 17.46                           | -0.3               | 17.16      | 0.052    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 17.02                           | -0.3               | 16.72      | 0.047    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 16.23                           | -0.3               | 15.93      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 16.28                           | -0.3               | 15.98      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 16.37                           | -0.3               | 16.07      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 16.3                            | -0.3               | 16.00      | 0.040    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.47                           | -0.3               | 16.17      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 16.9                            | -0.3               | 16.60      | 0.046    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 16.45                           | -0.3               | 16.15      | 0.041    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.22                           | -0.3               | 14.92      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 15.33                           | -0.3               | 15.03      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 15.38                           | -0.3               | 15.08      | 0.032    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 15.31                           | -0.3               | 15.01      | 0.032    | 1.00      | Pass    |
|                    | MCH          | QPSK      | RB1#0                 | 17.01                           | -0.3               | 16.71      | 0.047    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 17.35                           | -0.3               | 17.05      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 16.92                           | -0.3               | 16.62      | 0.046    | 1.00      | Pass    |

| Test BW            | Test Channel | Test Mode | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------------|--------------|-----------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND 66</b> |              |           |                       |                                 |                    |            |          |           |         |
|                    |              |           | RB50#0                | 16.28                           | -0.3               | 15.98      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 16.25                           | -0.3               | 15.95      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 16.1                            | -0.3               | 15.80      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 16.23                           | -0.3               | 15.93      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.31                           | -0.3               | 16.01      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 16.66                           | -0.3               | 16.36      | 0.043    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 16.33                           | -0.3               | 16.03      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.27                           | -0.3               | 14.97      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 15.1                            | -0.3               | 14.80      | 0.030    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 15.21                           | -0.3               | 14.91      | 0.031    | 1.00      | Pass    |
|                    | HCH          | QPSK      | RB1#0                 | 16.91                           | -0.3               | 16.61      | 0.046    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 17.35                           | -0.3               | 17.05      | 0.051    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 16.97                           | -0.3               | 16.67      | 0.046    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 16.14                           | -0.3               | 15.84      | 0.038    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 16.24                           | -0.3               | 15.94      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 16.21                           | -0.3               | 15.91      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 16.18                           | -0.3               | 15.88      | 0.039    | 1.00      | Pass    |
|                    |              | 16-QAM    | RB1#0                 | 16.36                           | -0.3               | 16.06      | 0.040    | 1.00      | Pass    |
|                    |              |           | RB1#50                | 16.65                           | -0.3               | 16.35      | 0.043    | 1.00      | Pass    |
|                    |              |           | RB1#99                | 16.25                           | -0.3               | 15.95      | 0.039    | 1.00      | Pass    |
|                    |              |           | RB50#0                | 15.15                           | -0.3               | 14.85      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#25               | 15.24                           | -0.3               | 14.94      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB50#50               | 15.18                           | -0.3               | 14.88      | 0.031    | 1.00      | Pass    |
|                    |              |           | RB100#0               | 15.17                           | -0.3               | 14.87      | 0.031    | 1.00      | Pass    |

## A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.: BL-SZ2440362-501 Data Part 1.pdf”.

### WCDMA Mode Test Data

| Test Band | Test Channel | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|--------------|----------------------------|------------|--------------------------------|---------|
| Band 2    | LCH          | 2.86                       | 13         | 1.1                            | Pass    |
|           | MCH          | 2.86                       | 13         | 1.2                            | Pass    |
|           | HCH          | 2.81                       | 13         | 1.3                            | Pass    |
| Band 4    | LCH          | 2.81                       | 13         | 2.1                            | Pass    |
|           | MCH          | 2.81                       | 13         | 2.2                            | Pass    |
|           | HCH          | 2.81                       | 13         | 2.3                            | Pass    |
| Band 5    | LCH          | 2.81                       | 13         | 3.1                            | Pass    |
|           | MCH          | 2.81                       | 13         | 3.2                            | Pass    |
|           | HCH          | 2.67                       | 13         | 3.3                            | Pass    |

### LTE Mode Test Data

| Test Band  | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|------------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|
| LTE Band 2 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 4.03                       | 13         | 4.1                            | Pass    |
|            |                |              |           | RB100#0               | 5.25                       | 13         | 4.2                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 4.73                       | 13         | 4.3                            | Pass    |
|            |                |              |           | RB100#0               | 6                          | 13         | 4.4                            | Pass    |
|            |                | MCH          | QPSK      | RB1#0                 | 4.36                       | 13         | 4.5                            | Pass    |
|            |                |              |           | RB100#0               | 5.34                       | 13         | 4.6                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.25                       | 13         | 4.7                            | Pass    |
|            |                |              |           | RB100#0               | 6.09                       | 13         | 4.8                            | Pass    |
|            |                | HCH          | QPSK      | RB1#0                 | 4.17                       | 13         | 4.9                            | Pass    |
|            |                |              |           | RB100#0               | 5.25                       | 13         | 4.10                           | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.16                       | 13         | 4.11                           | Pass    |
|            |                |              |           | RB100#0               | 5.95                       | 13         | 4.12                           | Pass    |
| LTE Band 4 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 4.03                       | 13         | 5.1                            | Pass    |
|            |                |              |           | RB100#0               | 5.2                        | 13         | 5.2                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 4.78                       | 13         | 5.3                            | Pass    |
|            |                |              |           | RB100#0               | 6                          | 13         | 5.4                            | Pass    |
|            |                | MCH          | QPSK      | RB1#0                 | 4.27                       | 13         | 5.5                            | Pass    |
|            |                |              |           | RB100#0               | 5.11                       | 13         | 5.6                            | Pass    |
|            |                |              | 16-QAM    | RB1#0                 | 5.11                       | 13         | 5.7                            | Pass    |
|            |                |              |           | RB1#0                 | 5.11                       | 13         | 5.7                            | Pass    |

| Test Band   | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-------------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|
|             |                | HCH          | QPSK      | RB100#0               | 5.91                       | 13         | 5.8                            | Pass    |
|             |                |              |           | RB1#0                 | 3.89                       | 13         | 5.9                            | Pass    |
|             |                |              |           | RB100#0               | 5.25                       | 13         | 5.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 4.92                       | 13         | 5.11                           | Pass    |
|             |                |              |           | RB100#0               | 5.95                       | 13         | 5.12                           | Pass    |
| LTE Band 5  | 10 MHz         | LCH          | QPSK      | RB1#0                 | 4.73                       | 13         | 6.1                            | Pass    |
|             |                |              |           | RB50#0                | 5.34                       | 13         | 6.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.53                       | 13         | 6.3                            | Pass    |
|             |                |              |           | RB50#0                | 6.09                       | 13         | 6.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 4.17                       | 13         | 6.5                            | Pass    |
|             |                |              |           | RB50#0                | 5.39                       | 13         | 6.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.11                       | 13         | 6.7                            | Pass    |
|             |                |              |           | RB50#0                | 6.14                       | 13         | 6.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.55                       | 13         | 6.9                            | Pass    |
|             |                |              |           | RB50#0                | 5.3                        | 13         | 6.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.25                       | 13         | 6.11                           | Pass    |
|             |                |              |           | RB50#0                | 6.05                       | 13         | 6.12                           | Pass    |
| LTE Band 7  | 20 MHz         | LCH          | QPSK      | RB1#0                 | 4.64                       | 13         | 7.1                            | Pass    |
|             |                |              |           | RB100#0               | 5.39                       | 13         | 7.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.34                       | 13         | 7.3                            | Pass    |
|             |                |              |           | RB100#0               | 6.19                       | 13         | 7.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 4.73                       | 13         | 7.5                            | Pass    |
|             |                |              |           | RB100#0               | 5.3                        | 13         | 7.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.48                       | 13         | 7.7                            | Pass    |
|             |                |              |           | RB100#0               | 6.09                       | 13         | 7.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.69                       | 13         | 7.9                            | Pass    |
|             |                |              |           | RB100#0               | 5.25                       | 13         | 7.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.67                       | 13         | 7.11                           | Pass    |
|             |                |              |           | RB100#0               | 6.05                       | 13         | 7.12                           | Pass    |
| LTE Band 12 | 10 MHz         | LCH          | QPSK      | RB1#0                 | 4.59                       | 13         | 8.1                            | Pass    |
|             |                |              |           | RB50#0                | 5.48                       | 13         | 8.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.48                       | 13         | 8.3                            | Pass    |
|             |                |              |           | RB50#0                | 6.14                       | 13         | 8.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 4.59                       | 13         | 8.5                            | Pass    |
|             |                |              |           | RB50#0                | 5.44                       | 13         | 8.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.53                       | 13         | 8.7                            | Pass    |
|             |                |              |           | RB50#0                | 6.14                       | 13         | 8.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.73                       | 13         | 8.9                            | Pass    |
|             |                |              |           | RB50#0                | 5.3                        | 13         | 8.10                           | Pass    |

| Test Band   | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-------------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|
| LTE Band 17 | 10 MHz         |              | 16-QAM    | RB1#0                 | 5.39                       | 13         | 8.11                           | Pass    |
|             |                |              |           | RB50#0                | 6.09                       | 13         | 8.12                           | Pass    |
|             |                | LCH          | QPSK      | RB1#0                 | 4.45                       | 13         | 9.1                            | Pass    |
|             |                |              |           | RB50#0                | 5.34                       | 13         | 9.2                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.3                        | 13         | 9.3                            | Pass    |
|             |                |              |           | RB50#0                | 6                          | 13         | 9.4                            | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 4.5                        | 13         | 9.5                            | Pass    |
|             |                |              |           | RB50#0                | 5.3                        | 13         | 9.6                            | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.48                       | 13         | 9.7                            | Pass    |
|             |                |              |           | RB50#0                | 6                          | 13         | 9.8                            | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 4.5                        | 13         | 9.9                            | Pass    |
|             |                |              |           | RB50#0                | 5.2                        | 13         | 9.10                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 5.2                        | 13         | 9.11                           | Pass    |
|             |                |              |           | RB50#0                | 5.95                       | 13         | 9.12                           | Pass    |
| LTE Band 38 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.25                       | 13         | 10.1                           | Pass    |
|             |                |              |           | RB100#0               | 9.14                       | 13         | 10.2                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9                          | 13         | 10.3                           | Pass    |
|             |                |              |           | RB100#0               | 9.89                       | 13         | 10.4                           | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 8.39                       | 13         | 10.5                           | Pass    |
|             |                |              |           | RB100#0               | 9.05                       | 13         | 10.6                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.23                       | 13         | 10.7                           | Pass    |
|             |                |              |           | RB100#0               | 9.84                       | 13         | 10.8                           | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 8.3                        | 13         | 10.9                           | Pass    |
|             |                |              |           | RB100#0               | 9.05                       | 13         | 10.10                          | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.14                       | 13         | 10.11                          | Pass    |
|             |                |              |           | RB100#0               | 9.8                        | 13         | 10.12                          | Pass    |
| LTE Band 41 | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.11                       | 13         | 11.1                           | Pass    |
|             |                |              |           | RB100#0               | 9.14                       | 13         | 11.2                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 8.86                       | 13         | 11.3                           | Pass    |
|             |                |              |           | RB100#0               | 9.89                       | 13         | 11.4                           | Pass    |
|             |                | MCH          | QPSK      | RB1#0                 | 8.34                       | 13         | 11.5                           | Pass    |
|             |                |              |           | RB100#0               | 9.14                       | 13         | 11.6                           | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 9.19                       | 13         | 11.7                           | Pass    |
|             |                |              |           | RB100#0               | 9.84                       | 13         | 11.8                           | Pass    |
|             |                | HCH          | QPSK      | RB1#0                 | 7.69                       | 13         | 11.9                           | Pass    |
|             |                |              |           | RB100#0               | 8.91                       | 13         | 11.10                          | Pass    |
|             |                |              | 16-QAM    | RB1#0                 | 8.53                       | 13         | 11.11                          | Pass    |
|             |                |              |           | RB100#0               | 9.66                       | 13         | 11.12                          | Pass    |
| LTE         | 20 MHz         | LCH          | QPSK      | RB1#0                 | 3.98                       | 13         | 12.1                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Peak to Average Ratio (dB) | Limit (dB) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|----------------------------|------------|--------------------------------|---------|
| Band 66   |                |              | 16-QAM    | RB100#0               | 5.25                       | 13         | 12.2                           | Pass    |
|           |                |              |           | RB1#0                 | 4.73                       | 13         | 12.3                           | Pass    |
|           |                |              |           | RB100#0               | 6                          | 13         | 12.4                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 3.84                       | 13         | 12.5                           | Pass    |
|           |                |              |           | RB100#0               | 5.2                        | 13         | 12.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 4.73                       | 13         | 12.7                           | Pass    |
|           |                |              |           | RB100#0               | 6                          | 13         | 12.8                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 4.59                       | 13         | 12.9                           | Pass    |
|           |                |              |           | RB100#0               | 5.3                        | 13         | 12.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 5.67                       | 13         | 12.11                          | Pass    |
|           |                |              |           | RB100#0               | 6                          | 13         | 12.12                          | Pass    |

### A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.: BL-SZ2440362-501 Data Part 2.pdf”.

#### GSM and WCDMA Mode Test Data

| Test Band       | Test Channel | Measured 99%<br>Occupied Bandwidth<br>(MHz) | Measured -26 dB<br>Occupied Bandwidth<br>(MHz) | Refer to<br>Plot <sup>Note2</sup> |
|-----------------|--------------|---------------------------------------------|------------------------------------------------|-----------------------------------|
| GSM 850         | LCH          | 0.252                                       | 0.323                                          | 1.1                               |
|                 | MCH          | 0.251                                       | 0.319                                          | 1.2                               |
|                 | HCH          | 0.25                                        | 0.326                                          | 1.3                               |
| GSM 1900        | LCH          | 0.252                                       | 0.316                                          | 2.1                               |
|                 | MCH          | 0.25                                        | 0.312                                          | 2.2                               |
|                 | HCH          | 0.251                                       | 0.324                                          | 2.3                               |
| EGPRS 850       | LCH          | 0.247                                       | 0.312                                          | 3.1                               |
|                 | MCH          | 0.248                                       | 0.312                                          | 3.2                               |
|                 | HCH          | 0.251                                       | 0.31                                           | 3.3                               |
| EGPRS 1900      | LCH          | 0.249                                       | 0.316                                          | 4.1                               |
|                 | MCH          | 0.25                                        | 0.309                                          | 4.2                               |
|                 | HCH          | 0.251                                       | 0.314                                          | 4.3                               |
| WCDMA Band<br>2 | LCH          | 4.169                                       | 4.731                                          | 5.1                               |
|                 | MCH          | 4.167                                       | 4.721                                          | 5.2                               |
|                 | HCH          | 4.18                                        | 4.729                                          | 5.3                               |
| WCDMA Band<br>4 | LCH          | 4.17                                        | 4.727                                          | 6.1                               |
|                 | MCH          | 4.17                                        | 4.719                                          | 6.2                               |
|                 | HCH          | 4.167                                       | 4.719                                          | 6.3                               |
| WCDMA Band<br>5 | LCH          | 4.171                                       | 4.721                                          | 7.1                               |
|                 | MCH          | 4.171                                       | 4.721                                          | 7.2                               |
|                 | HCH          | 4.158                                       | 4.716                                          | 7.3                               |

## LTE Mode Test Data

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|-----------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB6#0                 | 1.095                                 | 1.329                                    | 8.1                             |
|           |                |              | 16-QAM    | RB6#0                 | 1.098                                 | 1.341                                    | 8.2                             |
|           |                | MCH          | QPSK      | RB6#0                 | 1.093                                 | 1.33                                     | 8.3                             |
|           |                |              | 16-QAM    | RB6#0                 | 1.095                                 | 1.34                                     | 8.4                             |
|           |                | HCH          | QPSK      | RB6#0                 | 1.094                                 | 1.355                                    | 8.5                             |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.312                                    | 8.6                             |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.695                                 | 2.943                                    | 8.7                             |
|           |                |              | 16-QAM    | RB15#0                | 2.695                                 | 3.201                                    | 8.8                             |
|           |                | MCH          | QPSK      | RB15#0                | 2.693                                 | 2.935                                    | 8.9                             |
|           |                |              | 16-QAM    | RB15#0                | 2.694                                 | 2.937                                    | 8.10                            |
|           |                | HCH          | QPSK      | RB15#0                | 2.697                                 | 2.948                                    | 8.11                            |
|           |                |              | 16-QAM    | RB15#0                | 2.688                                 | 2.965                                    | 8.12                            |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.511                                 | 4.947                                    | 8.13                            |
|           |                |              | 16-QAM    | RB25#0                | 4.491                                 | 4.931                                    | 8.14                            |
|           |                | MCH          | QPSK      | RB25#0                | 4.506                                 | 4.969                                    | 8.15                            |
|           |                |              | 16-QAM    | RB25#0                | 4.514                                 | 5.347                                    | 8.16                            |
|           |                | HCH          | QPSK      | RB25#0                | 4.495                                 | 4.959                                    | 8.17                            |
|           |                |              | 16-QAM    | RB25#0                | 4.506                                 | 4.986                                    | 8.18                            |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 8.993                                 | 9.86                                     | 8.19                            |
|           |                |              | 16-QAM    | RB50#0                | 8.985                                 | 9.762                                    | 8.20                            |
|           |                | MCH          | QPSK      | RB50#0                | 8.963                                 | 9.759                                    | 8.21                            |
|           |                |              | 16-QAM    | RB50#0                | 8.998                                 | 12.205                                   | 8.22                            |
|           |                | HCH          | QPSK      | RB50#0                | 8.994                                 | 9.768                                    | 8.23                            |
|           |                |              | 16-QAM    | RB50#0                | 8.98                                  | 9.844                                    | 8.24                            |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.483                                | 14.767                                   | 8.25                            |
|           |                |              | 16-QAM    | RB75#0                | 13.477                                | 14.618                                   | 8.26                            |
|           |                | MCH          | QPSK      | RB75#0                | 13.49                                 | 23.042                                   | 8.27                            |
|           |                |              | 16-QAM    | RB75#0                | 13.559                                | 21.1                                     | 8.28                            |
|           |                | HCH          | QPSK      | RB75#0                | 13.515                                | 24.281                                   | 8.29                            |
|           |                |              | 16-QAM    | RB75#0                | 13.479                                | 14.708                                   | 8.30                            |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.947                                | 19.478                                   | 8.31                            |
|           |                |              | 16-QAM    | RB100#0               | 17.971                                | 19.425                                   | 8.32                            |
|           |                | MCH          | QPSK      | RB100#0               | 17.93                                 | 19.401                                   | 8.33                            |
|           |                |              | 16-QAM    | RB100#0               | 17.947                                | 19.467                                   | 8.34                            |
|           |                | HCH          | QPSK      | RB100#0               | 17.967                                | 19.582                                   | 8.35                            |
|           |                |              | 16-QAM    | RB100#0               | 17.932                                | 19.411                                   | 8.36                            |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.09                                  | 1.314                                    | 9.1                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.094                                 | 1.335                                    | 9.2                            |
|           |                | MCH          | QPSK      | RB6#0                  | 1.093                                 | 1.332                                    | 9.3                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.098                                 | 1.337                                    | 9.4                            |
|           |                | HCH          | QPSK      | RB6#0                  | 1.096                                 | 1.309                                    | 9.5                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.093                                 | 1.299                                    | 9.6                            |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.693                                 | 2.924                                    | 9.7                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.687                                 | 2.942                                    | 9.8                            |
|           |                | MCH          | QPSK      | RB15#0                 | 2.697                                 | 2.956                                    | 9.9                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.691                                 | 2.952                                    | 9.10                           |
|           |                | HCH          | QPSK      | RB15#0                 | 2.697                                 | 2.926                                    | 9.11                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.687                                 | 2.941                                    | 9.12                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.503                                 | 4.942                                    | 9.13                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.49                                  | 4.927                                    | 9.14                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.504                                 | 4.964                                    | 9.15                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.506                                 | 4.97                                     | 9.16                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.493                                 | 4.953                                    | 9.17                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.499                                 | 4.965                                    | 9.18                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.996                                 | 9.852                                    | 9.19                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.979                                 | 9.757                                    | 9.20                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.965                                 | 9.751                                    | 9.21                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.98                                  | 9.765                                    | 9.22                           |
|           |                | HCH          | QPSK      | RB50#0                 | 8.991                                 | 9.805                                    | 9.23                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.98                                  | 9.81                                     | 9.24                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.494                                | 16.747                                   | 9.25                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.525                                | 20.881                                   | 9.26                           |
|           |                | MCH          | QPSK      | RB75#0                 | 13.425                                | 14.652                                   | 9.27                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.476                                | 14.646                                   | 9.28                           |
|           |                | HCH          | QPSK      | RB75#0                 | 13.434                                | 14.607                                   | 9.29                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.522                                | 20.225                                   | 9.30                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.961                                | 19.3                                     | 9.31                           |
|           |                |              | 16-QAM    | RB100#0                | 17.985                                | 19.474                                   | 9.32                           |
|           |                | MCH          | QPSK      | RB100#0                | 17.939                                | 19.349                                   | 9.33                           |
|           |                |              | 16-QAM    | RB100#0                | 17.902                                | 19.476                                   | 9.34                           |
|           |                | HCH          | QPSK      | RB100#0                | 17.983                                | 19.625                                   | 9.35                           |
|           |                |              | 16-QAM    | RB100#0                | 18.033                                | 27.196                                   | 9.36                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.087                                 | 1.292                                    | 10.1                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.093                                 | 1.319                                    | 10.2                           |
|           |                | MCH          | QPSK      | RB6#0                  | 1.09                                  | 1.297                                    | 10.3                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.091                                 | 1.306                                    | 10.4                           |
|           |                | HCH          | QPSK      | RB6#0                  | 1.092                                 | 1.293                                    | 10.5                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.092                                 | 1.289                                    | 10.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.689                                 | 2.924                                    | 10.7                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.684                                 | 2.913                                    | 10.8                           |
|           |                | MCH          | QPSK      | RB15#0                 | 2.689                                 | 2.929                                    | 10.9                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.689                                 | 2.926                                    | 10.10                          |
|           |                | HCH          | QPSK      | RB15#0                 | 2.691                                 | 2.925                                    | 10.11                          |
|           |                |              | 16-QAM    | RB15#0                 | 2.685                                 | 2.928                                    | 10.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.504                                 | 4.941                                    | 10.13                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.494                                 | 4.925                                    | 10.14                          |
|           |                | MCH          | QPSK      | RB25#0                 | 4.493                                 | 4.923                                    | 10.15                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.503                                 | 4.931                                    | 10.16                          |
|           |                | HCH          | QPSK      | RB25#0                 | 4.49                                  | 4.91                                     | 10.17                          |
|           |                |              | 16-QAM    | RB25#0                 | 4.493                                 | 4.915                                    | 10.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.985                                 | 9.839                                    | 10.19                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.973                                 | 9.724                                    | 10.20                          |
|           |                | MCH          | QPSK      | RB50#0                 | 8.963                                 | 9.717                                    | 10.21                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.983                                 | 9.73                                     | 10.22                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.973                                 | 9.774                                    | 10.23                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.97                                  | 9.772                                    | 10.24                          |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.505                                 | 4.935                                    | 11.1                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.495                                 | 4.883                                    | 11.2                            |
|           |                | MCH          | QPSK      | RB25#0                 | 4.493                                 | 4.91                                     | 11.3                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.509                                 | 4.926                                    | 11.4                            |
|           |                | HCH          | QPSK      | RB25#0                 | 4.494                                 | 4.929                                    | 11.5                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.502                                 | 4.961                                    | 11.6                            |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.977                                 | 9.951                                    | 11.7                            |
|           |                |              | 16-QAM    | RB50#0                 | 8.983                                 | 9.759                                    | 11.8                            |
|           |                | MCH          | QPSK      | RB50#0                 | 8.969                                 | 9.743                                    | 11.9                            |
|           |                |              | 16-QAM    | RB50#0                 | 8.982                                 | 9.776                                    | 11.10                           |
|           |                | HCH          | QPSK      | RB50#0                 | 8.982                                 | 9.779                                    | 11.11                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.97                                  | 9.792                                    | 11.12                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.476                                | 14.64                                    | 11.13                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.47                                 | 14.61                                    | 11.14                           |
|           |                | MCH          | QPSK      | RB75#0                 | 13.439                                | 14.57                                    | 11.15                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.456                                | 14.596                                   | 11.16                           |
|           |                | HCH          | QPSK      | RB75#0                 | 13.462                                | 14.624                                   | 11.17                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.468                                | 14.683                                   | 11.18                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.911                                | 19.306                                   | 11.19                           |
|           |                |              | 16-QAM    | RB100#0                | 17.923                                | 19.384                                   | 11.20                           |
|           |                | MCH          | QPSK      | RB100#0                | 17.934                                | 19.372                                   | 11.21                           |
|           |                |              | 16-QAM    | RB100#0                | 17.928                                | 19.535                                   | 11.22                           |
|           |                | HCH          | QPSK      | RB100#0                | 17.934                                | 19.55                                    | 11.23                           |
|           |                |              | 16-QAM    | RB100#0                | 17.916                                | 19.356                                   | 11.24                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 12   | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.088                                 | 1.335                                    | 12.1                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.094                                 | 1.317                                    | 12.2                            |
|           |                | MCH          | QPSK      | RB6#0                  | 1.089                                 | 1.307                                    | 12.3                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.087                                 | 1.278                                    | 12.4                            |
|           |                | HCH          | QPSK      | RB6#0                  | 1.093                                 | 1.288                                    | 12.5                            |
|           |                |              | 16-QAM    | RB6#0                  | 1.09                                  | 1.305                                    | 12.6                            |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.69                                  | 2.907                                    | 12.7                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.689                                 | 2.922                                    | 12.8                            |
|           |                | MCH          | QPSK      | RB15#0                 | 2.688                                 | 2.919                                    | 12.9                            |
|           |                |              | 16-QAM    | RB15#0                 | 2.688                                 | 2.916                                    | 12.10                           |
|           |                | HCH          | QPSK      | RB15#0                 | 2.691                                 | 2.934                                    | 12.11                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.686                                 | 2.919                                    | 12.12                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.537                                 | 5.621                                    | 12.13                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.522                                 | 5.331                                    | 12.14                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.51                                  | 5.174                                    | 12.15                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.525                                 | 5.166                                    | 12.16                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.511                                 | 5.134                                    | 12.17                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.523                                 | 5.203                                    | 12.18                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 9.004                                 | 10.286                                   | 12.19                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.986                                 | 10.047                                   | 12.20                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.993                                 | 10.108                                   | 12.21                           |
|           |                |              | 16-QAM    | RB50#0                 | 9                                     | 10.15                                    | 12.22                           |
|           |                | HCH          | QPSK      | RB50#0                 | 9.016                                 | 10.57                                    | 12.23                           |
|           |                |              | 16-QAM    | RB50#0                 | 9.01                                  | 10.076                                   | 12.24                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.533                                 | 5.162                                    | 13.1                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.508                                 | 5.134                                    | 13.2                            |
|           |                | MCH          | QPSK      | RB25#0                 | 4.512                                 | 5.202                                    | 13.3                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.521                                 | 5.168                                    | 13.4                            |
|           |                | HCH          | QPSK      | RB25#0                 | 4.509                                 | 5.145                                    | 13.5                            |
|           |                |              | 16-QAM    | RB25#0                 | 4.526                                 | 5.192                                    | 13.6                            |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 9.022                                 | 10.27                                    | 13.7                            |
|           |                |              | 16-QAM    | RB50#0                 | 8.995                                 | 10.051                                   | 13.8                            |
|           |                | MCH          | QPSK      | RB50#0                 | 8.987                                 | 10.195                                   | 13.9                            |
|           |                |              | 16-QAM    | RB50#0                 | 9.004                                 | 10.16                                    | 13.10                           |
|           |                | HCH          | QPSK      | RB50#0                 | 9                                     | 10.165                                   | 13.11                           |
|           |                |              | 16-QAM    | RB50#0                 | 9.004                                 | 10.133                                   | 13.12                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|-----------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 38   | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.511                                 | 5.345                                    | 14.1                            |
|           |                |              | 16-QAM    | RB25#0                | 4.527                                 | 6.664                                    | 14.2                            |
|           |                | MCH          | QPSK      | RB25#0                | 4.528                                 | 5.9                                      | 14.3                            |
|           |                |              | 16-QAM    | RB25#0                | 4.523                                 | 8.333                                    | 14.4                            |
|           |                | HCH          | QPSK      | RB25#0                | 4.529                                 | 6.085                                    | 14.5                            |
|           |                |              | 16-QAM    | RB25#0                | 4.523                                 | 6.165                                    | 14.6                            |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 9.05                                  | 12.646                                   | 14.7                            |
|           |                |              | 16-QAM    | RB50#0                | 9.047                                 | 12.065                                   | 14.8                            |
|           |                | MCH          | QPSK      | RB50#0                | 9.046                                 | 15.489                                   | 14.9                            |
|           |                |              | 16-QAM    | RB50#0                | 9.017                                 | 13.206                                   | 14.10                           |
|           |                | HCH          | QPSK      | RB50#0                | 9.075                                 | 12.231                                   | 14.11                           |
|           |                |              | 16-QAM    | RB50#0                | 9.067                                 | 15.427                                   | 14.12                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.634                                | 18.658                                   | 14.13                           |
|           |                |              | 16-QAM    | RB75#0                | 13.603                                | 19.773                                   | 14.14                           |
|           |                | MCH          | QPSK      | RB75#0                | 13.533                                | 19.442                                   | 14.15                           |
|           |                |              | 16-QAM    | RB75#0                | 13.628                                | 21.361                                   | 14.16                           |
|           |                | HCH          | QPSK      | RB75#0                | 13.548                                | 21.981                                   | 14.17                           |
|           |                |              | 16-QAM    | RB75#0                | 13.67                                 | 21.314                                   | 14.18                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 18.058                                | 22.573                                   | 14.19                           |
|           |                |              | 16-QAM    | RB100#0               | 18.046                                | 29.816                                   | 14.20                           |
|           |                | MCH          | QPSK      | RB100#0               | 18.032                                | 24.735                                   | 14.21                           |
|           |                |              | 16-QAM    | RB100#0               | 18.138                                | 29.447                                   | 14.22                           |
|           |                | HCH          | QPSK      | RB100#0               | 18.044                                | 25.973                                   | 14.23                           |
|           |                |              | 16-QAM    | RB100#0               | 18.026                                | 29.541                                   | 14.24                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>†Note2</sup> |
|-----------|----------------|--------------|-----------|-----------------------|---------------------------------------|------------------------------------------|---------------------------------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.508                                 | 5.559                                    | 15.1                            |
|           |                |              | 16-QAM    | RB25#0                | 4.522                                 | 6.701                                    | 15.2                            |
|           |                | MCH          | QPSK      | RB25#0                | 4.519                                 | 5.337                                    | 15.3                            |
|           |                |              | 16-QAM    | RB25#0                | 4.511                                 | 6.334                                    | 15.4                            |
|           |                | HCH          | QPSK      | RB25#0                | 4.523                                 | 6.101                                    | 15.5                            |
|           |                |              | 16-QAM    | RB25#0                | 4.517                                 | 6.572                                    | 15.6                            |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 9.027                                 | 12.227                                   | 15.7                            |
|           |                |              | 16-QAM    | RB50#0                | 9.02                                  | 11.647                                   | 15.8                            |
|           |                | MCH          | QPSK      | RB50#0                | 9.026                                 | 13.269                                   | 15.9                            |
|           |                |              | 16-QAM    | RB50#0                | 9.008                                 | 11.756                                   | 15.10                           |
|           |                | HCH          | QPSK      | RB50#0                | 9.027                                 | 11.841                                   | 15.11                           |
|           |                |              | 16-QAM    | RB50#0                | 9.033                                 | 14.926                                   | 15.12                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.604                                | 19.894                                   | 15.13                           |
|           |                |              | 16-QAM    | RB75#0                | 13.585                                | 22.277                                   | 15.14                           |
|           |                | MCH          | QPSK      | RB75#0                | 13.51                                 | 19.476                                   | 15.15                           |
|           |                |              | 16-QAM    | RB75#0                | 13.593                                | 20.591                                   | 15.16                           |
|           |                | HCH          | QPSK      | RB75#0                | 13.521                                | 20.234                                   | 15.17                           |
|           |                |              | 16-QAM    | RB75#0                | 13.62                                 | 22.895                                   | 15.18                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 18.041                                | 22.42                                    | 15.19                           |
|           |                |              | 16-QAM    | RB100#0               | 18.005                                | 24.461                                   | 15.20                           |
|           |                | MCH          | QPSK      | RB100#0               | 17.989                                | 23.645                                   | 15.21                           |
|           |                |              | 16-QAM    | RB100#0               | 18.085                                | 28.881                                   | 15.22                           |
|           |                | HCH          | QPSK      | RB100#0               | 18.021                                | 27.25                                    | 15.23                           |
|           |                |              | 16-QAM    | RB100#0               | 17.981                                | 28.933                                   | 15.24                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|-----------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 66   | 1.4 MHz        | LCH          | QPSK      | RB6#0                 | 1.093                                 | 1.33                                     | 16.1                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.096                                 | 1.332                                    | 16.2                           |
|           |                | MCH          | QPSK      | RB6#0                 | 1.093                                 | 1.351                                    | 16.3                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.09                                  | 1.33                                     | 16.4                           |
|           |                | HCH          | QPSK      | RB6#0                 | 1.1                                   | 1.335                                    | 16.5                           |
|           |                |              | 16-QAM    | RB6#0                 | 1.097                                 | 1.341                                    | 16.6                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                | 2.693                                 | 2.933                                    | 16.7                           |
|           |                |              | 16-QAM    | RB15#0                | 2.691                                 | 2.956                                    | 16.8                           |
|           |                | MCH          | QPSK      | RB15#0                | 2.701                                 | 2.948                                    | 16.9                           |
|           |                |              | 16-QAM    | RB15#0                | 2.691                                 | 2.943                                    | 16.10                          |
|           |                | HCH          | QPSK      | RB15#0                | 2.698                                 | 2.966                                    | 16.11                          |
|           |                |              | 16-QAM    | RB15#0                | 2.691                                 | 2.953                                    | 16.12                          |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                | 4.537                                 | 5.243                                    | 16.13                          |
|           |                |              | 16-QAM    | RB25#0                | 4.519                                 | 5.152                                    | 16.14                          |
|           |                | MCH          | QPSK      | RB25#0                | 4.524                                 | 5.906                                    | 16.15                          |
|           |                |              | 16-QAM    | RB25#0                | 4.544                                 | 5.193                                    | 16.16                          |
|           |                | HCH          | QPSK      | RB25#0                | 4.518                                 | 5.187                                    | 16.17                          |
|           |                |              | 16-QAM    | RB25#0                | 4.54                                  | 5.258                                    | 16.18                          |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                | 9.03                                  | 10.463                                   | 16.19                          |
|           |                |              | 16-QAM    | RB50#0                | 9.01                                  | 10.175                                   | 16.20                          |
|           |                | MCH          | QPSK      | RB50#0                | 8.994                                 | 10.068                                   | 16.21                          |
|           |                |              | 16-QAM    | RB50#0                | 9.02                                  | 10.153                                   | 16.22                          |
|           |                | HCH          | QPSK      | RB50#0                | 9.024                                 | 11.728                                   | 16.23                          |
|           |                |              | 16-QAM    | RB50#0                | 9.01                                  | 10.188                                   | 16.24                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                | 13.543                                | 15.183                                   | 16.25                          |
|           |                |              | 16-QAM    | RB75#0                | 13.531                                | 15.113                                   | 16.26                          |
|           |                | MCH          | QPSK      | RB75#0                | 13.479                                | 15.084                                   | 16.27                          |
|           |                |              | 16-QAM    | RB75#0                | 13.519                                | 15.025                                   | 16.28                          |
|           |                | HCH          | QPSK      | RB75#0                | 13.49                                 | 15.269                                   | 16.29                          |
|           |                |              | 16-QAM    | RB75#0                | 13.526                                | 15.581                                   | 16.30                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0               | 17.965                                | 19.687                                   | 16.31                          |
|           |                |              | 16-QAM    | RB100#0               | 18.001                                | 19.834                                   | 16.32                          |
|           |                | MCH          | QPSK      | RB100#0               | 17.963                                | 19.783                                   | 16.33                          |
|           |                |              | 16-QAM    | RB100#0               | 17.993                                | 19.933                                   | 16.34                          |
|           |                | HCH          | QPSK      | RB100#0               | 17.983                                | 20.004                                   | 16.35                          |
|           |                |              | 16-QAM    | RB100#0               | 17.975                                | 19.783                                   | 16.36                          |

## A.4 Frequency Stability

GSM 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 7.2             | -30              | 10.23               | ±2060.5     | 7.26             | ±2091.5     | 8.81             | ±2122       | Pass    |
|                 | -20              | 6.01                |             | 7.26             |             | 12.11            |             |         |
|                 | -10              | 8.01                |             | 12.75            |             | 9.94             |             |         |
|                 | 0                | 13.98               |             | 9.94             |             | 11.36            |             |         |
|                 | +10              | 9.49                |             | 6.97             |             | 14.66            |             |         |
|                 | +20              | 7.88                |             | 5.55             |             | 5.62             |             |         |
|                 | +25              | 9.69                |             | 10.36            |             | 8.46             |             |         |
|                 | +30              | 8.36                |             | 10.11            |             | 9.2              |             |         |
|                 | +40              | 11.82               |             | 9.98             |             | -6.39            |             |         |
|                 | +50              | 9.33                |             | 11.66            |             | 8.43             |             |         |
| 7.92            | +25              | 10.27               |             | 10.91            |             | 14.46            |             |         |
| 6.8             | +25              | 9.72                |             | 7.52             |             | 10.23            |             |         |

GSM 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 7.2             | -30              | 21.24               | ±4625.5     | 10.98           | ±4700.0     | 14.98             | ±4774.5     | Pass    |
|                 | -20              | 17.43               |             | 15.14           |             | 21.7              |             |         |
|                 | -10              | 16.5                |             | 20.37           |             | 19.27             |             |         |
|                 | 0                | 13.08               |             | 21.89           |             | 17.21             |             |         |
|                 | +10              | 13.08               |             | 15.37           |             | 22.12             |             |         |
|                 | +20              | 21.86               |             | 24.02           |             | 21.05             |             |         |
|                 | +25              | 19.37               |             | 20.21           |             | 17.24             |             |         |
|                 | +30              | 16.24               |             | 20.15           |             | 18.69             |             |         |
|                 | +40              | 20.57               |             | 17.92           |             | 16.05             |             |         |
|                 | +50              | 15.72               |             | 22.37           |             | 23.76             |             |         |
| 7.92            | +25              | 16.82               |             | 19.73           |             | 20.63             |             |         |
| 6.8             | +25              | 18.98               |             | 18.89           |             | 22.18             |             |         |

GPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 7.2             | -30              | 6.52                | ±2060.5     | 9.33             | ±2091.5     | 5.36             | ±2122       | Pass    |
|                 | -20              | 7.3                 |             | 7.68             |             | 3.23             |             |         |
|                 | -10              | 8.17                |             | 5.78             |             | 7.36             |             |         |
|                 | 0                | -8.78               |             | -6.33            |             | 6.94             |             |         |
|                 | +10              | 5.97                |             | 7.88             |             | 8.17             |             |         |
|                 | +20              | 4.71                |             | 6.07             |             | 7.68             |             |         |
|                 | +25              | 6.33                |             | -5.04            |             | 11.72            |             |         |
|                 | +30              | -6.23               |             | -6.55            |             | 5.49             |             |         |
|                 | +40              | -5.36               |             | 5.1              |             | 5.49             |             |         |
|                 | +50              | -4.65               |             | -5.04            |             | 7.94             |             |         |
| 7.92            | +25              | 6.68                |             | 8.94             |             | 8.23             |             |         |
| 6.8             | +25              | 7.85                |             | -5.17            |             | 8.14             |             |         |

GPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 7.2             | -30              | 15.95               | ±4625.5     | 19.02           | ±4700.0     | 17.14             | ±4774.5     | Pass    |
|                 | -20              | 17.85               |             | 15.98           |             | 21.37             |             |         |
|                 | -10              | 10.98               |             | 17.01           |             | 22.76             |             |         |
|                 | 0                | 11.17               |             | 13.75           |             | 19.57             |             |         |
|                 | +10              | 21.21               |             | 18.98           |             | 17.34             |             |         |
|                 | +20              | 17.05               |             | 18.08           |             | 19.53             |             |         |
|                 | +25              | 10.78               |             | 17.27           |             | 18.6              |             |         |
|                 | +30              | 10.69               |             | 14.56           |             | 11.07             |             |         |
|                 | +40              | 17.63               |             | 13.85           |             | 14.4              |             |         |
|                 | +50              | 11.82               |             | 12.62           |             | 19.18             |             |         |
| 7.92            | +25              | 20.31               |             | 11.04           |             | 14.85             |             |         |
| 6.8             | +25              | 12.4                |             | 10.07           |             | 11.49             |             |         |

EGPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 7.2             | -30              | 6.52                | ±2060.5     | 5.2              | ±2091.5     | -8.75            | ±2122       | Pass    |
|                 | -20              | 5.33                |             | -4.68            |             | 5.26             |             |         |
|                 | -10              | 9.85                |             | -6.1             |             | 4.84             |             |         |
|                 | 0                | 6.2                 |             | -7.04            |             | 4.42             |             |         |
|                 | +10              | 4.04                |             | 4.26             |             | 4.46             |             |         |
|                 | +20              | 3.07                |             | 4.52             |             | -3.2             |             |         |
|                 | +25              | -4.36               |             | -2.87            |             | 6.26             |             |         |
|                 | +30              | 7.07                |             | 4.55             |             | 5.68             |             |         |
|                 | +40              | 6.97                |             | 7.1              |             | 6.2              |             |         |
|                 | +50              | 6.1                 |             | 6.68             |             | 7.1              |             |         |
| 7.92            | +25              | 5.42                |             | -5.33            |             | 3.62             |             |         |
| 6.8             | +25              | 9.07                |             | -5.07            |             | 6.13             |             |         |

EGPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 7.2             | -30              | 20.24               | ±4625.5     | 22.47           | ±4700.0     | 18.5              | ±4774.5     | Pass    |
|                 | -20              | 24.38               |             | 20.5            |             | 26.15             |             |         |
|                 | -10              | 28.19               |             | 22.34           |             | 26.09             |             |         |
|                 | 0                | 27.12               |             | 32.48           |             | 27.96             |             |         |
|                 | +10              | 29.48               |             | 19.21           |             | 24.25             |             |         |
|                 | +20              | 27.22               |             | 23.92           |             | 24.5              |             |         |
|                 | +25              | 30.93               |             | 23.37           |             | 20.05             |             |         |
|                 | +30              | 21.83               |             | 23.96           |             | 27.28             |             |         |
|                 | +40              | 27.73               |             | 26.99           |             | 19.79             |             |         |
|                 | +50              | 27.48               |             | 23.28           |             | 26.47             |             |         |
| 7.92            | +25              | 31.12               |             | 25.8            |             | 25.41             |             |         |
| 6.8             | +25              | 28.22               |             | 21.41           |             | 23.34             |             |         |

WCDMA Band 2

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1852.4 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1907.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 7.2             | -30              | -5.93               | ±4631       | -10.24          | ±4700       | -12.24            | ±4769       | Pass    |
|                 | -20              | -5.92               |             | -13.56          |             | -18.71            |             |         |
|                 | -10              | -9.86               |             | -6.62           |             | -13.46            |             |         |
|                 | 0                | -5.11               |             | -9.38           |             | -5.14             |             |         |
|                 | +10              | -9.37               |             | -12.23          |             | -8.45             |             |         |
|                 | +20              | -4.93               |             | -12.04          |             | -19.14            |             |         |
|                 | +25              | -4.92               |             | -10.53          |             | -16.94            |             |         |
|                 | +30              | -2.35               |             | -10.38          |             | -10.39            |             |         |
|                 | +40              | -6.54               |             | -16.01          |             | -12.07            |             |         |
|                 | +50              | -6.29               |             | -11.34          |             | -18.39            |             |         |
| 7.92            | +25              | -3.56               |             | -10.38          |             | -11.13            |             |         |
| 6.8             | +25              | -3.76               |             | -14.9           |             | -15               |             |         |

WCDMA Band 4

| Test Conditions |                  | Frequency Deviation |             |                   |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-------------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1712.4 MHz   |             | MCH<br>1732.4 MHz |             | HCH<br>1752.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)        | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 7.2             | -30              | -7.73               | ±4281       | -8.55             | ±4331       | -9.7              | ±4381.5     | Pass    |
|                 | -20              | -10.06              |             | -8                |             | -11.13            |             |         |
|                 | -10              | -6.09               |             | -9.11             |             | -11.37            |             |         |
|                 | 0                | -6.04               |             | -3.71             |             | -13.38            |             |         |
|                 | +10              | -3.48               |             | -11.63            |             | -7.82             |             |         |
|                 | +20              | -8.72               |             | -4.67             |             | -7.68             |             |         |
|                 | +25              | -8.86               |             | -10.4             |             | -7.81             |             |         |
|                 | +30              | -7.47               |             | -9.38             |             | -4.29             |             |         |
|                 | +40              | -3.93               |             | -11.27            |             | -12.04            |             |         |
|                 | +50              | -4.73               |             | -9.79             |             | -17.33            |             |         |
| 7.92            | +25              | -3.78               |             | -9.63             |             | -12.07            |             |         |
| 6.8             | +25              | -4.99               |             | -6.79             |             | -10.89            |             |         |

WCDMA Band B5

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>826.4 MHz    |             | MCH<br>836.4 MHz |             | HCH<br>846.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 7.2             | -30              | -5.49               | ±2066       | -4.07            | ±2091       | -7.37            | ±2116.5     | Pass    |
|                 | -20              | -2.53               |             | -7.42            |             | -7.14            |             |         |
|                 | -10              | -4.9                |             | -9.57            |             | -8.96            |             |         |
|                 | 0                | -2.15               |             | -7.05            |             | -12.22           |             |         |
|                 | +10              | -7.11               |             | -10.46           |             | -7.24            |             |         |
|                 | +20              | -3.07               |             | -11.48           |             | -6.43            |             |         |
|                 | +25              | -3.59               |             | -9.58            |             | -8.43            |             |         |
|                 | +30              | -9.42               |             | -9.11            |             | -14.35           |             |         |
|                 | +40              | -1.05               |             | -9.96            |             | -8               |             |         |
|                 | +50              | -8.12               |             | -7.03            |             | -13.2            |             |         |
| 7.92            | +25              | -5.03               |             | -5.29            |             | -14.03           |             |         |
| 6.8             | +25              | -4.14               |             | -13.02           |             | -8.71            |             |         |

LTE Band 2 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -4.63               | ±4700       | Pass    |
|                 | -20              | -9.67               |             |         |
|                 | -10              | -4.46               |             |         |
|                 | 0                | -3.16               |             |         |
|                 | +10              | -6.29               |             |         |
|                 | +20              | -7.31               |             |         |
|                 | +25              | -8.23               |             |         |
|                 | +30              | -5.09               |             |         |
|                 | +40              | -6.09               |             |         |
|                 | +50              | -10.54              |             |         |
| 7.92            | +25              | -5.78               |             |         |
| 6.8             | +25              | -8.01               |             |         |

LTE Band 2 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -6.69               | ±4700       | Pass    |
|                 | -20              | -3.5                |             |         |
|                 | -10              | -10.77              |             |         |
|                 | 0                | -11.32              |             |         |
|                 | +10              | -9.76               |             |         |
|                 | +20              | -7.64               |             |         |
|                 | +25              | -0.86               |             |         |
|                 | +30              | -2.7                |             |         |
|                 | +40              | -9.81               |             |         |
|                 | +50              | -11.24              |             |         |
| 7.92            | +25              | -6.45               |             |         |
| 6.8             | +25              | -5.54               |             |         |

LTE Band 4 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1732.5 MHz   |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -0.57               | ±4331.25    | Pass    |
|                 | -20              | -3.89               |             |         |
|                 | -10              | -6.12               |             |         |
|                 | 0                | -3.81               |             |         |
|                 | +10              | 2.89                |             |         |
|                 | +20              | -0.06               |             |         |
|                 | +25              | 2.22                |             |         |
|                 | +30              | -5.99               |             |         |
|                 | +40              | -2.65               |             |         |
|                 | +50              | -7.81               |             |         |
| 7.92            | +25              | -4.16               | ±4331.25    | Pass    |
| 6.8             | +25              | -8.4                |             |         |

LTE Band 4 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1732.5 MHz   |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -8.7                | ±4331.25    | Pass    |
|                 | -20              | -8.11               |             |         |
|                 | -10              | -7.35               |             |         |
|                 | 0                | -6.98               |             |         |
|                 | +10              | -6.18               |             |         |
|                 | +20              | -6.17               |             |         |
|                 | +25              | -0.27               |             |         |
|                 | +30              | -0.39               |             |         |
|                 | +40              | -1.06               |             |         |
|                 | +50              | -2.92               |             |         |
| 7.92            | +25              | 0                   | ±4331.25    | Pass    |
| 6.8             | +25              | -5.72               |             |         |

LTE Band 5 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -3                  | ±2091.25    | Pass    |
|                 | -20              | -5.55               |             |         |
|                 | -10              | -5.58               |             |         |
|                 | 0                | -9.73               |             |         |
|                 | +10              | -4.89               |             |         |
|                 | +20              | -1.27               |             |         |
|                 | +25              | -4.26               |             |         |
|                 | +30              | -4.78               |             |         |
|                 | +40              | -7.37               |             |         |
|                 | +50              | -5.88               |             |         |
| 7.92            | +25              | -7.98               | ±2091.25    | Pass    |
| 6.8             | +25              | -5.02               |             |         |

LTE Band 5 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -0.57               | ±2091.25    | Pass    |
|                 | -20              | -7.84               |             |         |
|                 | -10              | -2.79               |             |         |
|                 | 0                | -6.11               |             |         |
|                 | +10              | -9.86               |             |         |
|                 | +20              | -8.11               |             |         |
|                 | +25              | -7.44               |             |         |
|                 | +30              | -6.27               |             |         |
|                 | +40              | -3.75               |             |         |
|                 | +50              | -5.95               |             |         |
| 7.92            | +25              | -5.21               | ±2091.25    | Pass    |
| 6.8             | +25              | -7.71               |             |         |

LTE Band 7 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | 3.82                | ±6337.5     | Pass    |
|                 | -20              | -4.95               |             |         |
|                 | -10              | -1.54               |             |         |
|                 | 0                | -6.28               |             |         |
|                 | +10              | -7.67               |             |         |
|                 | +20              | -9.87               |             |         |
|                 | +25              | -10.6               |             |         |
|                 | +30              | -9.53               |             |         |
|                 | +40              | -2.1                |             |         |
|                 | +50              | -4.09               |             |         |
| 7.92            | +25              | -5.89               |             |         |
| 6.8             | +25              | -5.72               |             |         |

LTE Band 7 16-QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2535 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -3.63               | ±6337.5     | Pass    |
|                 | -20              | 4.66                |             |         |
|                 | -10              | 1.1                 |             |         |
|                 | 0                | -5.42               |             |         |
|                 | +10              | -9.18               |             |         |
|                 | +20              | -2.13               |             |         |
|                 | +25              | 0.17                |             |         |
|                 | +30              | -23.76              |             |         |
|                 | +40              | -14.45              |             |         |
|                 | +50              | -3.53               |             |         |
| 7.92            | +25              | -8.3                |             |         |
| 6.8             | +25              | -13.55              |             |         |

LTE Band 12 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>707.5 MHz    |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -3.1                | ±1768.75    | Pass    |
|                 | -20              | -5.95               |             |         |
|                 | -10              | -7.5                |             |         |
|                 | 0                | -5.05               |             |         |
|                 | +10              | -4.19               |             |         |
|                 | +20              | -4.13               |             |         |
|                 | +25              | -5.14               |             |         |
|                 | +30              | -6.08               |             |         |
|                 | +40              | -5.24               |             |         |
|                 | +50              | -7.17               |             |         |
| 7.92            | +25              | -5.12               |             |         |
| 6.8             | +25              | -4.58               |             |         |

LTE Band 12 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>707.5 MHz    |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -6.12               | ±1768.75    | Pass    |
|                 | -20              | -7.82               |             |         |
|                 | -10              | -6.32               |             |         |
|                 | 0                | -5.99               |             |         |
|                 | +10              | -4.09               |             |         |
|                 | +20              | -6.22               |             |         |
|                 | +25              | -9.06               |             |         |
|                 | +30              | -9.48               |             |         |
|                 | +40              | -6.44               |             |         |
|                 | +50              | -8.07               |             |         |
| 7.92            | +25              | -2.12               |             |         |
| 6.8             | +25              | -5.62               |             |         |

LTE Band 17 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>710 MHz      |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -3.93               | ±1775       | Pass    |
|                 | -20              | -6.87               |             |         |
|                 | -10              | -8.15               |             |         |
|                 | 0                | -2.07               |             |         |
|                 | +10              | -5.08               |             |         |
|                 | +20              | -6.12               |             |         |
|                 | +25              | -5.66               |             |         |
|                 | +30              | -5.29               |             |         |
|                 | +40              | -3.89               |             |         |
|                 | +50              | -7.4                |             |         |
| 7.92            | +25              | -6.25               |             |         |
| 6.8             | +25              | -6.38               |             |         |

LTE Band 17 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>710 MHz      |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -5.74               | ±1775       | Pass    |
|                 | -20              | -5.48               |             |         |
|                 | -10              | -4.43               |             |         |
|                 | 0                | -9.34               |             |         |
|                 | +10              | -6.19               |             |         |
|                 | +20              | -9.2                |             |         |
|                 | +25              | -5.18               |             |         |
|                 | +30              | -5.84               |             |         |
|                 | +40              | -7.04               |             |         |
|                 | +50              | -6.12               |             |         |
| 7.92            | +25              | -5.76               |             |         |
| 6.8             | +25              | -3.43               |             |         |

LTE Band 38 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -12.03              | ±6487.5     | Pass    |
|                 | -20              | -14.43              |             |         |
|                 | -10              | -16.54              |             |         |
|                 | 0                | -4.21               |             |         |
|                 | +10              | -10                 |             |         |
|                 | +20              | -14.95              |             |         |
|                 | +25              | -8                  |             |         |
|                 | +30              | -8.71               |             |         |
|                 | +40              | -11.06              |             |         |
|                 | +50              | -12.69              |             |         |
| 7.92            | +25              | -11.59              |             |         |
| 6.8             | +25              | -16.77              |             |         |

LTE Band 38 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2595 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -16.04              | ±6487.5     | Pass    |
|                 | -20              | -17.65              |             |         |
|                 | -10              | -8.3                |             |         |
|                 | 0                | -6.68               |             |         |
|                 | +10              | -15.51              |             |         |
|                 | +20              | -19.57              |             |         |
|                 | +25              | -10.74              |             |         |
|                 | +30              | -20.13              |             |         |
|                 | +40              | -10.26              |             |         |
|                 | +50              | -9.18               |             |         |
| 7.92            | +25              | -14.29              |             |         |
| 6.8             | +25              | -20.66              |             |         |

LTE Band 41 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2593 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -11.89              | ±6482.5     | Pass    |
|                 | -20              | -8.37               |             |         |
|                 | -10              | -6.44               |             |         |
|                 | 0                | -16.94              |             |         |
|                 | +10              | -9.7                |             |         |
|                 | +20              | -12.1               |             |         |
|                 | +25              | -12.6               |             |         |
|                 | +30              | -12.76              |             |         |
|                 | +40              | -9.53               |             |         |
|                 | +50              | -16.04              |             |         |
| 7.92            | +25              | -2.86               | ±6482.5     | Pass    |
| 6.8             | +25              | -11.46              |             |         |

LTE Band 41 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>2593 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -16.57              | ±6482.5     | Pass    |
|                 | -20              | -19.23              |             |         |
|                 | -10              | -10.81              |             |         |
|                 | 0                | -11.32              |             |         |
|                 | +10              | -16.74              |             |         |
|                 | +20              | -16.77              |             |         |
|                 | +25              | -10.04              |             |         |
|                 | +30              | -14.41              |             |         |
|                 | +40              | -11.79              |             |         |
|                 | +50              | -10.53              |             |         |
| 7.92            | +25              | -10.89              | ±6482.5     | Pass    |
| 6.8             | +25              | -17.32              |             |         |

LTE Band 66 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1745 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -7.42               | ±4362.5     | Pass    |
|                 | -20              | -0.51               |             |         |
|                 | -10              | -2.3                |             |         |
|                 | 0                | -4.49               |             |         |
|                 | +10              | -1.5                |             |         |
|                 | +20              | -5.28               |             |         |
|                 | +25              | -3.18               |             |         |
|                 | +30              | -6.01               |             |         |
|                 | +40              | -8.81               |             |         |
|                 | +50              | -3.28               |             |         |
| 7.92            | +25              | -1.07               |             |         |
| 6.8             | +25              | -5.32               |             |         |

LTE Band 66 16QAM10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1745 MHz     |             |         |
|                 |                  | Value(Hz)           | Limits (Hz) |         |
| 7.2             | -30              | -1.29               | ±4362.5     | Pass    |
|                 | -20              | -1.36               |             |         |
|                 | -10              | -7.01               |             |         |
|                 | 0                | -3.16               |             |         |
|                 | +10              | -3.18               |             |         |
|                 | +20              | -4.18               |             |         |
|                 | +25              | -11.12              |             |         |
|                 | +30              | -7.54               |             |         |
|                 | +40              | -8.98               |             |         |
|                 | +50              | -4.75               |             |         |
| 7.92            | +25              | -9.28               |             |         |
| 6.8             | +25              | -5.25               |             |         |

## A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-SZ2440362-501 Data Part 3.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

### GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          | 1.2                            | Pass    |
|              | HCH          | 1.3                            | Pass    |
| GSM 1900     | LCH          | 2.1                            | Pass    |
|              | MCH          | 2.2                            | Pass    |
|              | HCH          | 2.3                            | Pass    |
| EGPRS 850    | LCH          | 3.1                            | Pass    |
|              | MCH          | 3.2                            | Pass    |
|              | HCH          | 3.3                            | Pass    |
| EGPRS 1900   | LCH          | 4.1                            | Pass    |
|              | MCH          | 4.2                            | Pass    |
|              | HCH          | 4.3                            | Pass    |
| WCDMA Band 2 | LCH          | 5.1                            | Pass    |
|              | MCH          | 5.2                            | Pass    |
|              | HCH          | 5.3                            | Pass    |
| WCDMA Band 4 | LCH          | 6.1                            | Pass    |
|              | MCH          | 6.2                            | Pass    |
|              | HCH          | 6.3                            | Pass    |
| WCDMA Band 5 | LCH          | 7.1                            | Pass    |
|              | MCH          | 7.2                            | Pass    |
|              | HCH          | 7.3                            | Pass    |

LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 8.1                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.2                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.3                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.5                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.6                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 8.7                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.8                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.9                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.10                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.11                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.12                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 8.13                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.14                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.15                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.16                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.17                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.18                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 8.19                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.20                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.21                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.22                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.23                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.24                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 8.25                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.26                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.27                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.29                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.30                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.31                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.32                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 8.33                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.34                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 8.35                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.36                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 9.1                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.2                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.3                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.5                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.6                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 9.7                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.8                            | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.9                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.10                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.11                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.12                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 9.13                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.14                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.15                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.16                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.17                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.18                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 9.19                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.20                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.21                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.22                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.23                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.24                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 9.25                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.26                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.27                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.29                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.30                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 9.31                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.32                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 9.33                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.34                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 9.35                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.36                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 10.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 10.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 10.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.6                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 10.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 10.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 10.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.12                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 10.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 10.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 10.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.18                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 10.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 10.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 10.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB1#0                 | 11.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 11.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 11.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 11.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 11.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 11.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.12                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 11.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 11.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 11.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 11.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 11.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 11.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 12   | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 12.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 12.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 12.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.6                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 12.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 12.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 12.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.12                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 12.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 12.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 12.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.18                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 12.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 12.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 12.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 13.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 13.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 13.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 13.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 13.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 13.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.12                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 38   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 14.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 14.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.12                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 14.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 14.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 14.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 14.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 15.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 15.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 15.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.6                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 15.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 15.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 15.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.12                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 15.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 15.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 15.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.18                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 15.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 15.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 15.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.24                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 66   | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 16.1                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.2                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.3                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.5                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.6                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 16.7                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.8                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.9                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.10                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.11                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.12                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 16.13                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.14                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.15                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.16                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.17                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.18                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 16.19                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.20                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.21                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.22                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.23                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.24                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 16.25                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.26                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.27                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.29                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.30                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 16.31                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.32                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                 | 16.33                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.34                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                 | 16.35                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.36                          | Pass    |

## A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2440362-501 Data Part 4.pdf”.

### GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note1</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | HCH          | 1.2                            | Pass    |
| GSM 1900     | LCH          | 2.1                            | Pass    |
|              | HCH          | 2.2                            | Pass    |
| EGPRS 850    | LCH          | 3.1                            | Pass    |
|              | HCH          | 3.2                            | Pass    |
| EGPRS 1900   | LCH          | 4.1                            | Pass    |
|              | HCH          | 4.2                            | Pass    |
| WCDMA Band 2 | LCH          | 5.1                            | Pass    |
|              | HCH          | 5.2                            | Pass    |
| WCDMA Band 4 | LCH          | 6.1                            | Pass    |
|              | HCH          | 6.2                            | Pass    |
| WCDMA Band 5 | LCH          | 7.1                            | Pass    |
|              | HCH          | 7.2                            | Pass    |

## LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 8.1                            | Pass    |
|           |                |              |           | RB6#0                 | 8.2                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.3                            | Pass    |
|           |                |              |           | RB6#0                 | 8.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 8.5                            | Pass    |
|           |                |              |           | RB6#0                 | 8.6                            | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 8.7                            | Pass    |
|           |                |              |           | RB6#0                 | 8.8                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 8.9                            | Pass    |
|           |                |              |           | RB15#0                | 8.10                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.11                           | Pass    |
|           |                |              |           | RB15#0                | 8.12                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 8.13                           | Pass    |
|           |                |              |           | RB15#0                | 8.14                           | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 8.15                           | Pass    |
|           |                |              |           | RB15#0                | 8.16                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 8.17                           | Pass    |
|           |                |              |           | RB25#0                | 8.18                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.19                           | Pass    |
|           |                |              |           | RB25#0                | 8.20                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 8.21                           | Pass    |
|           |                |              |           | RB25#0                | 8.22                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 8.23                           | Pass    |
|           |                |              |           | RB25#0                | 8.24                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 8.25                           | Pass    |
|           |                |              |           | RB50#0                | 8.26                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.27                           | Pass    |
|           |                |              |           | RB50#0                | 8.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 8.29                           | Pass    |
|           |                |              |           | RB50#0                | 8.30                           | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 8.31                           | Pass    |
|           |                |              |           | RB50#0                | 8.32                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 8.33                           | Pass    |
|           |                |              |           | RB75#0                | 8.34                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.35                           | Pass    |
|           |                |              |           | RB75#0                | 8.36                           | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 8.37                           | Pass    |
|           |                |              |           | RB75#0                | 8.38                           | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 8.39                           | Pass    |
|           |                |              |           | RB1#74                | 8.39                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           |                |              |           | RB75#0                | 8.40                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 8.41                           | Pass    |
|           |                |              |           | RB100#0               | 8.42                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 8.43                           | Pass    |
|           |                |              |           | RB100#0               | 8.44                           | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 8.45                           | Pass    |
|           |                |              |           | RB100#0               | 8.46                           | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 8.47                           | Pass    |
|           |                |              |           | RB100#0               | 8.48                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 9.1                            | Pass    |
|           |                |              |           | RB6#0                 | 9.2                            | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.3                            | Pass    |
|           |                |              |           | RB6#0                 | 9.4                            | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 9.5                            | Pass    |
|           |                |              |           | RB6#0                 | 9.6                            | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 9.7                            | Pass    |
|           |                |              |           | RB6#0                 | 9.8                            | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 9.9                            | Pass    |
|           |                |              |           | RB15#0                | 9.10                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.11                           | Pass    |
|           |                |              |           | RB15#0                | 9.12                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 9.13                           | Pass    |
|           |                |              |           | RB15#0                | 9.14                           | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 9.15                           | Pass    |
|           |                |              |           | RB15#0                | 9.16                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 9.17                           | Pass    |
|           |                |              |           | RB25#0                | 9.18                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.19                           | Pass    |
|           |                |              |           | RB25#0                | 9.20                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 9.21                           | Pass    |
|           |                |              |           | RB25#0                | 9.22                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 9.23                           | Pass    |
|           |                |              |           | RB25#0                | 9.24                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 9.25                           | Pass    |
|           |                |              |           | RB50#0                | 9.26                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.27                           | Pass    |
|           |                |              |           | RB50#0                | 9.28                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 9.29                           | Pass    |
|           |                |              |           | RB50#0                | 9.30                           | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 9.31                           | Pass    |
|           |                |              |           | RB50#0                | 9.32                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 9.33                           | Pass    |
|           |                |              |           | RB75#0                | 9.34                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.35                           | Pass    |
|           |                |              |           | RB75#0                | 9.36                           | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 9.37                           | Pass    |
|           |                |              |           | RB75#0                | 9.38                           | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 9.39                           | Pass    |
|           |                |              |           | RB1#74                | 9.39                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           |                |              |           | RB75#0                | 9.40                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 9.41                           | Pass    |
|           |                |              |           | RB100#0               | 9.42                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 9.43                           | Pass    |
|           |                |              |           | RB100#0               | 9.44                           | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 9.45                           | Pass    |
|           |                |              |           | RB100#0               | 9.46                           | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 9.47                           | Pass    |
|           |                |              |           | RB100#0               | 9.48                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 5    | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 10.1                           | Pass    |
|           |                |              |           | RB6#0                 | 10.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.3                           | Pass    |
|           |                |              |           | RB6#0                 | 10.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 10.5                           | Pass    |
|           |                |              |           | RB6#0                 | 10.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 10.7                           | Pass    |
|           |                |              |           | RB6#0                 | 10.8                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 10.9                           | Pass    |
|           |                |              |           | RB15#0                | 10.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.11                          | Pass    |
|           |                |              |           | RB15#0                | 10.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 10.13                          | Pass    |
|           |                |              |           | RB15#0                | 10.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 10.15                          | Pass    |
|           |                |              |           | RB15#0                | 10.16                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 10.17                          | Pass    |
|           |                |              |           | RB25#0                | 10.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.19                          | Pass    |
|           |                |              |           | RB25#0                | 10.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 10.21                          | Pass    |
|           |                |              |           | RB25#0                | 10.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 10.23                          | Pass    |
|           |                |              |           | RB25#0                | 10.24                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 10.25                          | Pass    |
|           |                |              |           | RB50#0                | 10.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 10.27                          | Pass    |
|           |                |              |           | RB50#0                | 10.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 10.29                          | Pass    |
|           |                |              |           | RB50#0                | 10.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 10.31                          | Pass    |
|           |                |              |           | RB50#0                | 10.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB1#0                 | 11.1                           | Pass    |
|           |                |              |           | RB25#0                | 11.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.3                           | Pass    |
|           |                |              |           | RB25#0                | 11.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 11.5                           | Pass    |
|           |                |              |           | RB25#0                | 11.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 11.7                           | Pass    |
|           |                |              |           | RB25#0                | 11.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 11.9                           | Pass    |
|           |                |              |           | RB50#0                | 11.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.11                          | Pass    |
|           |                |              |           | RB50#0                | 11.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 11.13                          | Pass    |
|           |                |              |           | RB50#0                | 11.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 11.15                          | Pass    |
|           |                |              |           | RB50#0                | 11.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 11.17                          | Pass    |
|           |                |              |           | RB75#0                | 11.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.19                          | Pass    |
|           |                |              |           | RB75#0                | 11.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 11.21                          | Pass    |
|           |                |              |           | RB75#0                | 11.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 11.23                          | Pass    |
|           |                |              |           | RB75#0                | 11.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 11.25                          | Pass    |
|           |                |              |           | RB100#0               | 11.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 11.27                          | Pass    |
|           |                |              |           | RB100#0               | 11.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 11.29                          | Pass    |
|           |                |              |           | RB100#0               | 11.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 11.31                          | Pass    |
|           |                |              |           | RB100#0               | 11.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 12   | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 12.1                           | Pass    |
|           |                |              |           | RB6#0                 | 12.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.3                           | Pass    |
|           |                |              |           | RB6#0                 | 12.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 12.5                           | Pass    |
|           |                |              |           | RB6#0                 | 12.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 12.7                           | Pass    |
|           |                |              |           | RB6#0                 | 12.8                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 12.9                           | Pass    |
|           |                |              |           | RB15#0                | 12.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.11                          | Pass    |
|           |                |              |           | RB15#0                | 12.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 12.13                          | Pass    |
|           |                |              |           | RB15#0                | 12.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 12.15                          | Pass    |
|           |                |              |           | RB15#0                | 12.16                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 12.17                          | Pass    |
|           |                |              |           | RB25#0                | 12.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.19                          | Pass    |
|           |                |              |           | RB25#0                | 12.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 12.21                          | Pass    |
|           |                |              |           | RB25#0                | 12.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 12.23                          | Pass    |
|           |                |              |           | RB25#0                | 12.24                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 12.25                          | Pass    |
|           |                |              |           | RB50#0                | 12.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 12.27                          | Pass    |
|           |                |              |           | RB50#0                | 12.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 12.29                          | Pass    |
|           |                |              |           | RB50#0                | 12.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 12.31                          | Pass    |
|           |                |              |           | RB50#0                | 12.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 17   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 13.1                           | Pass    |
|           |                |              |           | RB25#0                | 13.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.3                           | Pass    |
|           |                |              |           | RB25#0                | 13.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 13.5                           | Pass    |
|           |                |              |           | RB25#0                | 13.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 13.7                           | Pass    |
|           |                |              |           | RB25#0                | 13.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 13.9                           | Pass    |
|           |                |              |           | RB50#0                | 13.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 13.11                          | Pass    |
|           |                |              |           | RB50#0                | 13.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 13.13                          | Pass    |
|           |                |              |           | RB50#0                | 13.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 13.15                          | Pass    |
|           |                |              |           | RB50#0                | 13.16                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 38   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 14.1                           | Pass    |
|           |                |              |           | RB25#0                | 14.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.3                           | Pass    |
|           |                |              |           | RB25#0                | 14.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 14.5                           | Pass    |
|           |                |              |           | RB25#0                | 14.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 14.7                           | Pass    |
|           |                |              |           | RB25#0                | 14.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 14.9                           | Pass    |
|           |                |              |           | RB50#0                | 14.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.11                          | Pass    |
|           |                |              |           | RB50#0                | 14.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 14.13                          | Pass    |
|           |                |              |           | RB50#0                | 14.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 14.15                          | Pass    |
|           |                |              |           | RB50#0                | 14.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 14.17                          | Pass    |
|           |                |              |           | RB75#0                | 14.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.19                          | Pass    |
|           |                |              |           | RB75#0                | 14.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 14.21                          | Pass    |
|           |                |              |           | RB75#0                | 14.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 14.23                          | Pass    |
|           |                |              |           | RB75#0                | 14.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 14.25                          | Pass    |
|           |                |              |           | RB100#0               | 14.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 14.27                          | Pass    |
|           |                |              |           | RB100#0               | 14.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 14.29                          | Pass    |
|           |                |              |           | RB100#0               | 14.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 14.31                          | Pass    |
|           |                |              |           | RB100#0               | 14.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 41   | 5 MHz          | LCH          | QPSK      | RB1#0                 | 15.1                           | Pass    |
|           |                |              |           | RB25#0                | 15.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.3                           | Pass    |
|           |                |              |           | RB25#0                | 15.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 15.5                           | Pass    |
|           |                |              |           | RB25#0                | 15.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 15.7                           | Pass    |
|           |                |              |           | RB25#0                | 15.8                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 15.9                           | Pass    |
|           |                |              |           | RB50#0                | 15.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.11                          | Pass    |
|           |                |              |           | RB50#0                | 15.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 15.13                          | Pass    |
|           |                |              |           | RB50#0                | 15.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 15.15                          | Pass    |
|           |                |              |           | RB50#0                | 15.16                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 15.17                          | Pass    |
|           |                |              |           | RB75#0                | 15.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.19                          | Pass    |
|           |                |              |           | RB75#0                | 15.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 15.21                          | Pass    |
|           |                |              |           | RB75#0                | 15.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 15.23                          | Pass    |
|           |                |              |           | RB75#0                | 15.24                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 15.25                          | Pass    |
|           |                |              |           | RB100#0               | 15.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 15.27                          | Pass    |
|           |                |              |           | RB100#0               | 15.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 15.29                          | Pass    |
|           |                |              |           | RB100#0               | 15.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 15.31                          | Pass    |
|           |                |              |           | RB100#0               | 15.32                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
| Band 66   | 1.4 MHz        | LCH          | QPSK      | RB1#0                 | 16.1                           | Pass    |
|           |                |              |           | RB6#0                 | 16.2                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.3                           | Pass    |
|           |                |              |           | RB6#0                 | 16.4                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                 | 16.5                           | Pass    |
|           |                |              |           | RB6#0                 | 16.6                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                 | 16.7                           | Pass    |
|           |                |              |           | RB6#0                 | 16.8                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                 | 16.9                           | Pass    |
|           |                |              |           | RB15#0                | 16.10                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.11                          | Pass    |
|           |                |              |           | RB15#0                | 16.12                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14                | 16.13                          | Pass    |
|           |                |              |           | RB15#0                | 16.14                          | Pass    |
|           |                |              | 16-QAM    | RB1#14                | 16.15                          | Pass    |
|           |                |              |           | RB15#0                | 16.16                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                 | 16.17                          | Pass    |
|           |                |              |           | RB25#0                | 16.18                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.19                          | Pass    |
|           |                |              |           | RB25#0                | 16.20                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24                | 16.21                          | Pass    |
|           |                |              |           | RB25#0                | 16.22                          | Pass    |
|           |                |              | 16-QAM    | RB1#24                | 16.23                          | Pass    |
|           |                |              |           | RB25#0                | 16.24                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                 | 16.25                          | Pass    |
|           |                |              |           | RB50#0                | 16.26                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.27                          | Pass    |
|           |                |              |           | RB50#0                | 16.28                          | Pass    |
|           |                | HCH          | QPSK      | RB1#49                | 16.29                          | Pass    |
|           |                |              |           | RB50#0                | 16.30                          | Pass    |
|           |                |              | 16-QAM    | RB1#49                | 16.31                          | Pass    |
|           |                |              |           | RB50#0                | 16.32                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                 | 16.33                          | Pass    |
|           |                |              |           | RB75#0                | 16.34                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.35                          | Pass    |
|           |                |              |           | RB75#0                | 16.36                          | Pass    |
|           |                | HCH          | QPSK      | RB1#74                | 16.37                          | Pass    |
|           |                |              |           | RB75#0                | 16.38                          | Pass    |
|           |                |              | 16-QAM    | RB1#74                | 16.39                          | Pass    |
|           |                |              |           | RB75#0                | 16.40                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|-----------------------|--------------------------------|---------|
|           | 20 MHz         | LCH          | QPSK      | RB1#0                 | 16.41                          | Pass    |
|           |                |              |           | RB100#0               | 16.42                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                 | 16.43                          | Pass    |
|           |                |              |           | RB100#0               | 16.44                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99                | 16.45                          | Pass    |
|           |                |              |           | RB100#0               | 16.46                          | Pass    |
|           |                |              | 16-QAM    | RB1#99                | 16.47                          | Pass    |
|           |                |              |           | RB100#0               | 16.48                          | Pass    |

## A.7 Field Strength of Spurious Radiation

Note 1: All modes have been tested, and only the worst case data are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-SZ2440362-501 Data Part 5.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

### GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| GSM 1900     | LCH          | 1.2                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| EGPRS 850    | LCH          | 2.1                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| EGPRS 1900   | LCH          | 2.2                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| WCDMA Band 2 | LCH          | 3.1                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| WCDMA Band 4 | LCH          | 3.2                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |
| WCDMA Band 5 | LCH          | 3.3                            | Pass    |
|              | MCH          |                                | Pass    |
|              | HCH          |                                | Pass    |

LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | HCH          | 4.1                            | Pass    |
| Band 4    | 20 MHz         | LCH          | 4.2                            | Pass    |
| Band 5    | 10 MHz         | LCH          | 4.3                            | Pass    |
| Band 7    | 20 MHz         | MCH          | 4.4                            | Pass    |
| Band 12   | 10 MHz         | HCH          | 4.5                            | Pass    |
| Band 17   | 10 MHz         | HCH          | 4.6                            | Pass    |
| Band 38   | 20 MHz         | LCH          | 4.7                            | Pass    |
| Band 41   | 10 MHz         | LCH          | 4.8                            | Pass    |
| Band 66   | 10 MHz         | LCH          | 4.9                            | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document “BL-SZ2440362-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document “BL-SZ2440362-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document “BL-SZ2440362-AI.PDF”.

## Statement

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--END OF REPORT--