

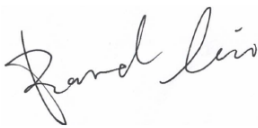
FCC PART 27  
FCC PART 22H, PART 24E, PART 90  
TEST REPORT

For

**Shanghai Xiangcheng Communication Technology Co.,Ltd**

6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China

**FCC ID: 2A2UU-P14**

|                                                          |                                                                                                                                                                                                                             |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Class II permissive change Report | <b>Product Name:</b><br>Smart POS Terminal                                                                                                                                                                                  |
| <b>Report Number:</b>                                    | RKSA240620011-00F                                                                                                                                                                                                           |
| <b>Report Date:</b>                                      | 2025-05-20                                                                                                                                                                                                                  |
| <b>Reviewed By:</b>                                      | <u>Bard Liu</u><br>                                                                                                                     |
| <b>Approved By:</b>                                      | <u>Kyle Xu</u><br>                                                                                                                      |
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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**DOCUMENT HISTORY**

| Revision | Release Time | Description of Revision           | Report Number     |
|----------|--------------|-----------------------------------|-------------------|
| R2V1     | 2025-05-20   | Class II permissive change Report | RKSA240620011-00F |

**FILING DESCRIPTION**

| Report Number     | Information about changes                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------|
| RKSA240620011-00F | Adapter; Battery; Wifi/BT Antenna; WWAN Antenna; SIM card slot, Memory, Add 2.4G Hotspot function |

**Note:**

This is a C2PC report, based on CR231168756-00F★ grant on 03/11/2024, the details as below:

1. Add an adapter, its model is LM-603U-050200U02UL.
2. Add a new battery, its model is F50051MA, the supplier is Dongguan HongDe Battery Co.Ltd
3. Add a new battery,the model is F50051MA (only model name different with original.)
4. Change the WIFI/BT Antenna.
5. Change the SIM card slot.
6. Change the WWAN Antenna.
7. Change memory from Vender: BIWIN Vender Model :BWCC2X32N2A-16G-X to  
Vender: LONGSYS Vender Model :FLXC2002G-N2
8. Add 2.4G WiFi/BT Hotspot function through software which not affect RF performance

For above changes, we “Spot Check With Maximum Conducted Output Power” and retest the item “Spurious Radiated Emissions” and update related photos, other data and photos were referred to the original report CR231168756-00F★.

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:                | Shanghai Xiangcheng Communication Technology Co.,Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tested Model:             | P14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product Name:             | Smart POS Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power Supply:             | DC 3.8V from battery or DC 5V charging by adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RF Function:              | GPRS/EGPRS, WCDMA, LTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating Band/Frequency: | GPRS/EGPRS 850: 824-849 MHz(TX), 869-894 MHz(RX)<br>GPRS/EGPRS 1900: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>WCDMA Band II: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155 MHz(RX)<br>WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX)<br>LTE Band 2: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX)<br>LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX)<br>LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX)<br>LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX)<br>LTE Band 17: 704-716 MHz(TX), 734-746 MHz(RX)<br>LTE Band 25: 1850-1915 MHz (TX), 1930-1995 MHz (RX)<br>LTE Band 26: 814-849 MHz(TX), 859-894 MHz(RX)<br>LTE Band 38: 2570-2620 MHz(TX), 2570-2620 MHz(RX)<br>LTE Band 41: 2535-2655 MHz(TX), 2535-2655 MHz(RX) |
| Modulation Type:          | GPRS/EGPRS: GMSK, 8PSK<br>WCDMA: BPSK, QPSK, 16QAM<br>LTE: QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Antenna Type:             | IFA Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ★Maximum Antenna Gain:    | GPRS/EGPRS 850: -0.3 dBi<br>GPRS/EGPRS 1900: 2.31 dBi<br>WCDMA Band II: 2.31 dBi<br>WCDMA Band IV: 1.88 dBi<br>WCDMA Band V: -0.3 dBi<br>LTE Band 2: 2.31 dBi<br>LTE Band 4: 1.88 dBi<br>LTE Band 5: -0.3 dBi<br>LTE Band 7: 1.71 dBi<br>LTE Band 12: -2.02 dBi<br>LTE Band 17: -2.02 dBi<br>LTE Band 25: 2.31 dBi<br>LTE Band 26: -0.3 dBi<br>LTE Band 38: 1.7 dBi<br>LTE Band 41: 1.93 dBi                                                                                                                                                                                                                                                                                                                                                                                                              |

#### Adapter Information:

Model: LM-603U-050200U02UL

Input: 100-240V, 50/60Hz, 0.35A

Output: 5V, 2000mA, 10.0W

Note: The maximum antenna gain is provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number:

RKSA240620011-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2024-06-20.)

**Objective**

This type approval report is prepared for *Shanghai Xiangcheng Communication Technology Co.,Ltd* in accordance with Part 2, Part 22-Subpart H and Part 24-Subpart E, Part 27 and Part 90 of the Federal Communication Commission's rules.

The objective is to determine the compliance of EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, and band edge.

**Test Methodology**

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services  
Part 24 Subpart E - Personal Communication Services  
Part 27 – Miscellaneous wireless communications services  
Part 90- PRIVATE LAND MOBILE RADIO SERVICES  
Applicable Standards: ANSI C63.26-2015.

**Measurement Uncertainty**

| Item               |                | Uncertainty |
|--------------------|----------------|-------------|
| RF conducted test  |                | 0.9dB       |
| Radiated emission  | 9 kHz~150 kHz  | 3.8dB       |
|                    | 150 kHz~30 MHz | 3.4dB       |
|                    | 30MHz~1GHz     | 5.91dB      |
|                    | 1GHz~6GHz      | 4.68dB      |
|                    | 6GHz~18GHz     | 4.92dB      |
|                    | 18GHz~40GHz    | 5.21dB      |
| Occupied Bandwidth |                | 0.5kHz      |
| Temperature        |                | 1.0°C       |
| Humidity           |                | 6%          |

**Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

## SYSTEM TEST CONFIGURATION

### Justification

The EUT was configured for testing according to ANSI C63.26-2015.

The final qualification test was performed with the EUT operating at normal mode.

### Channel List

| Mode            |      | Channel | Frequency (MHz) |
|-----------------|------|---------|-----------------|
| GPRS/EGPRS 850  |      | Low     | 824.2           |
|                 |      | Middle  | 836.6           |
|                 |      | High    | 848.8           |
| GPRS/EGPRS 1900 |      | Low     | 1850.2          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1909.8          |
| WCDMA Band II   |      | Low     | 1852.4          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1907.6          |
| WCDMA Band IV   |      | Low     | 1712.4          |
|                 |      | Middle  | 1732.6          |
|                 |      | High    | 1752.6          |
| WCDMA Band V    |      | Low     | 826.4           |
|                 |      | Middle  | 836.6           |
|                 |      | High    | 846.6           |
| LTE Band 2      | 1.4M | Low     | 1850.7          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1909.3          |
|                 | 3M   | Low     | 1851.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1908.5          |
|                 | 5M   | Low     | 1852.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1907.5          |
|                 | 10M  | Low     | 1855.0          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1905.0          |
|                 | 15M  | Low     | 1857.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1902.5          |
|                 | 20M  | Low     | 1860.0          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1900.0          |



| Mode       |      | Channel | Frequency (MHz) |
|------------|------|---------|-----------------|
| LTE Band 4 | 1.4M | Low     | 1710.7          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1754.3          |
|            | 3M   | Low     | 1711.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1753.5          |
|            | 5M   | Low     | 1712.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1752.5          |
|            | 10M  | Low     | 1715.0          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1750.0          |
|            | 15M  | Low     | 1717.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1747.5          |
|            | 20M  | Low     | 1720.0          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1745.0          |
| LTE Band 5 | 1.4M | Low     | 824.7           |
|            |      | Middle  | 836.5           |
|            |      | High    | 848.3           |
|            | 3M   | Low     | 825.5           |
|            |      | Middle  | 836.5           |
|            |      | High    | 847.5           |
|            | 5M   | Low     | 826.5           |
|            |      | Middle  | 836.5           |
|            |      | High    | 846.5           |
|            | 10M  | Low     | 829.0           |
|            |      | Middle  | 836.5           |
|            |      | High    | 844.0           |
| LTE Band 7 | 5M   | Low     | 2502.5          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2567.5          |
|            | 10M  | Low     | 2505.0          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2565.0          |
|            | 15M  | Low     | 2507.5          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2562.5          |
|            | 20M  | Low     | 2510.0          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2560.0          |

| Mode        |      | Channel | Frequency (MHz) |
|-------------|------|---------|-----------------|
| LTE Band 12 | 1.4M | Low     | 699.7           |
|             |      | Middle  | 707.5           |
|             |      | High    | 715.3           |
|             | 3M   | Low     | 700.5           |
|             |      | Middle  | 707.5           |
|             |      | High    | 714.5           |
|             | 5M   | Low     | 701.5           |
|             |      | Middle  | 707.5           |
|             |      | High    | 713.5           |
|             | 10M  | Low     | 704.0           |
|             |      | Middle  | 707.5           |
|             |      | High    | 711.0           |
| LTE Band 17 | 5M   | Low     | 706.5           |
|             |      | Middle  | 710.0           |
|             |      | High    | 713.5           |
|             | 10M  | Low     | 709.0           |
|             |      | Middle  | 710.0           |
|             |      | High    | 711.0           |

| Mode              |      | Channel | Frequency (MHz) |
|-------------------|------|---------|-----------------|
| LTE Band 25       | 1.4M | Low     | 1850.7          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1914.3          |
|                   | 3M   | Low     | 1851.5          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1913.5          |
|                   | 5M   | Low     | 1852.5          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1912.5          |
|                   | 10M  | Low     | 1855.0          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1910.0          |
|                   | 15M  | Low     | 1857.5          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1907.5          |
|                   | 20M  | Low     | 1860.0          |
|                   |      | Middle  | 1882.5          |
|                   |      | High    | 1905.0          |
| LTE Band 26 Lower | 1.4M | Low     | 814.7           |
|                   |      | High    | 823.3           |
|                   |      | Cross   | 824             |
|                   | 3M   | Low     | 815.5           |
|                   |      | High    | 822.5           |
|                   |      | Cross   | 824             |
|                   | 5M   | Low     | 816.5           |
|                   |      | High    | 821.5           |
|                   |      | Cross   | 824             |
|                   | 10M  | Low     | 819             |
|                   |      | Cross   | 824             |
|                   | 15M  | Low     | 821.5           |
|                   |      | Cross   | 824             |
| LTE Band 26 Upper | 1.4M | Low     | 824.7           |
|                   |      | Middle  | 836.5           |
|                   |      | High    | 848.3           |
|                   | 3M   | Low     | 825.5           |
|                   |      | Middle  | 836.5           |
|                   |      | High    | 847.5           |
|                   | 5M   | Low     | 826.5           |
|                   |      | Middle  | 836.5           |
|                   |      | High    | 846.5           |
|                   | 10M  | Low     | 829             |
|                   |      | Middle  | 836.5           |
|                   |      | High    | 844             |
|                   | 15M  | Low     | 831.5           |
|                   |      | Middle  | 836.5           |
|                   |      | High    | 841.5           |

| Mode        |     | Channel | Frequency (MHz) |
|-------------|-----|---------|-----------------|
| LTE Band 38 | 5M  | Low     | 2572.5          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2617.5          |
|             | 10M | Low     | 2575.0          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2615.0          |
|             | 15M | Low     | 2577.5          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2612.5          |
|             | 20M | Low     | 2580.0          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2610.0          |
| LTE Band 41 | 5M  | Low     | 2537.5          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2652.5          |
|             | 10M | Low     | 2540.0          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2650.0          |
|             | 15M | Low     | 2542.5          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2647.5          |
|             | 20M | Low     | 2545.0          |
|             |     | Middle  | 2595.0          |
|             |     | High    | 2645.0          |

## Equipment Modifications

No modifications were made to the EUT.

## Support Equipment List and Details

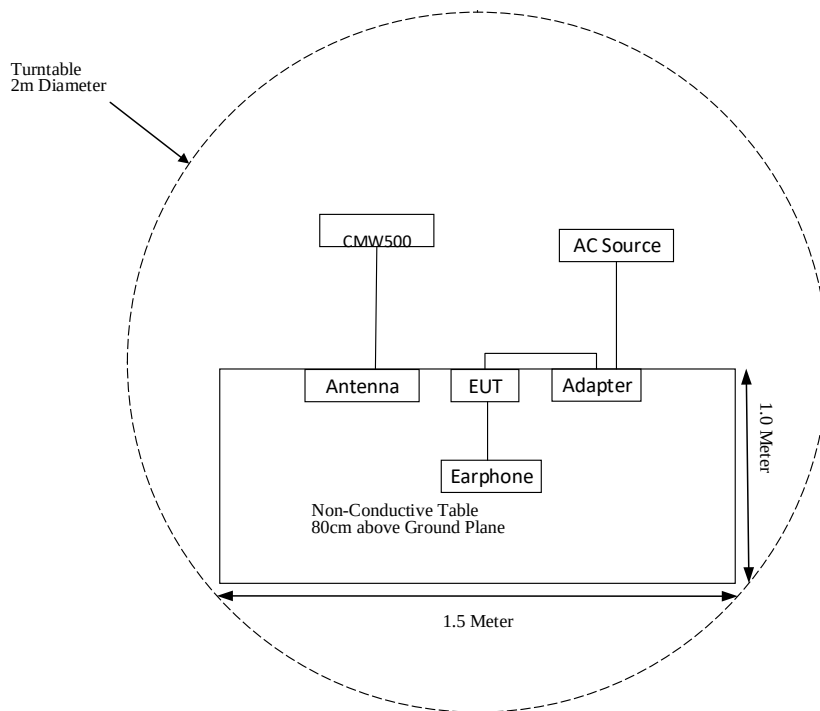
| Manufacturer    | Description                         | Model   | Serial Number |
|-----------------|-------------------------------------|---------|---------------|
| Rohde & Schwarz | Wideband Radio Communication Tester | CMW500  | 104478        |
| Unknown         | Earphone                            | Unknown | Unknown       |

## External I/O Cable

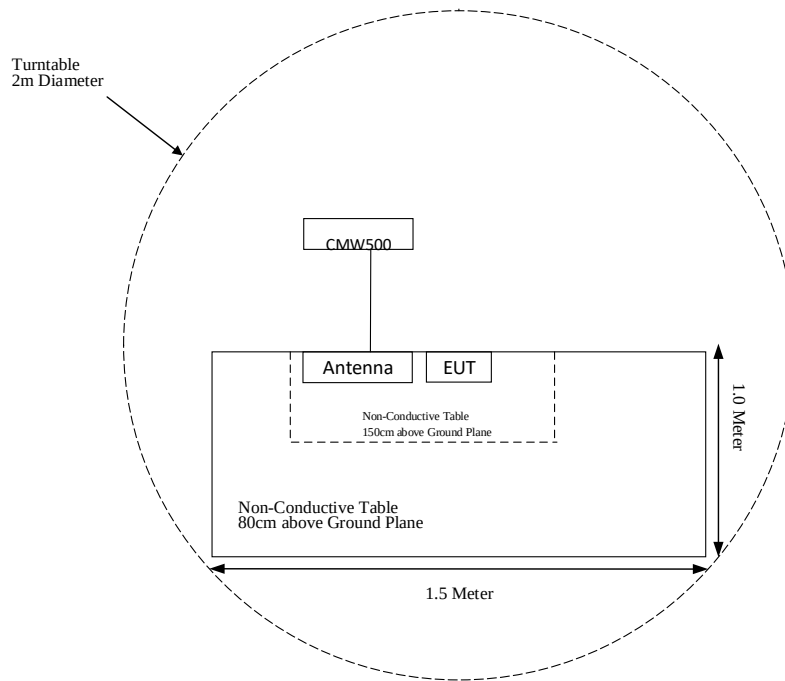
| Cable Description | Length (m) | From Port | To Port  |
|-------------------|------------|-----------|----------|
| Power Cable 1     | 1.0        | AC Source | Adapter  |
| USB Cable 1       | 1.0        | Adapter   | EUT      |
| Audio Cable 1     | 1.0        | EUT       | Earphone |

## Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



## TEST EQUIPMENT LIST

| Manufacturer                               | Description                         | Model     | Serial Number                   | Calibration Date | Calibration Due Date |
|--------------------------------------------|-------------------------------------|-----------|---------------------------------|------------------|----------------------|
| <b>Radiated Emission Test</b>              |                                     |           |                                 |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver                   | ESCI      | 100195                          | 2024-04-23       | 2025-04-22           |
| Keysight                                   | Signal Generator                    | N5183A    | MY47420304                      | 2024-04-24       | 2025-04-23           |
| Sunol Sciences                             | Hybrid Antenna                      | JB3       | A090314-1                       | 2023-11-11       | 2024-11-10           |
| Sunol Sciences                             | Hybrid Antenna                      | JB3       | A090314-2                       | 2023-01-12       | 2026-01-11           |
| Sonoma Instrument                          | Amplifier                           | 310N      | 171205                          | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Auto Test Software                  | EMC32     | 100361                          | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-7   | 007                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-8   | 008                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-9   | 009                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-10  | 010                             | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Wideband Radio Communication Tester | CMW500    | 104478                          | 2024-04-23       | 2025-04-22           |
| <b>Radiated Emission Test (Chamber #2)</b> |                                     |           |                                 |                  |                      |
| Keysight                                   | Signal Generator                    | N5183A    | MY47420304                      | 2024-04-24       | 2025-04-23           |
| Rohde & Schwarz                            | EMI Test Receiver                   | ESU40     | 100207/040                      | 2024-04-25       | 2025-04-24           |
| ETS-LINDGREN                               | Horn Antenna                        | 3115      | 9311-4159                       | 2024-12-02       | 2027-12-01           |
| ETS-LINDGREN                               | Horn Antenna                        | 3115      | 9207-3900                       | 2024-11-03       | 2027-11-02           |
| ETS-LINDGREN                               | Horn Antenna                        | 3116      | 2516                            | 2024-12-12       | 2027-12-11           |
| ETS-LINDGREN                               | Horn Antenna                        | 3116      | 84159                           | 2024-12-08       | 2027-12-07           |
| A.H.Systems, inc                           | Amplifier                           | PAM-0118P | 512                             | 2024-04-25       | 2025-04-24           |
| SELECTOR                                   | Amplifier                           | EM18G40G  | 060726                          | 2024-04-25       | 2025-04-24           |
| Narda                                      | Attenuator                          | 10dB      | 010                             | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Auto test Software                  | EMC32     | 100361                          | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-6   | 006                             | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-11  | 011                             | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-12  | 012                             | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-13  | 013                             | 2024-04-25       | 2025-04-24           |
| Wi                                         | Band reject filter                  | SN1       | WRCGV5-804-824-849-869-30SS     | 2024-04-25       | 2025-04-24           |
| Wi                                         | Band reject filter                  | SN1       | WRCGV8-1695-1710-1755-1770-30SS | 2024-04-25       | 2025-04-24           |
| Wi                                         | Band reject filter                  | SN1       | WRCGV6-1830-1850-1910-1930-30SS | 2024-04-25       | 2025-04-24           |
| Wi                                         | Band reject filter                  | SN1       | WRCJV8-2550-2570-2620-2640-30SS | 2024-04-25       | 2025-04-24           |

|                          |                                        |        |                                             |            |            |
|--------------------------|----------------------------------------|--------|---------------------------------------------|------------|------------|
| Wi                       | Band reject filter                     | SN1    | WRCJV8-<br>2450-2500-<br>2570-2620-<br>40SS | 2024-04-25 | 2025-04-24 |
| Wi                       | Band reject filter                     | SN2    | WRCT16-697-<br>699-716-718-<br>60SS         | 2024-04-25 | 2025-04-24 |
| Rohde & Schwarz          | Wideband Radio<br>Communication Tester | CMW500 | 104478                                      | 2024-04-23 | 2025-04-22 |
| <b>RF Conducted Test</b> |                                        |        |                                             |            |            |
| Rohde & Schwarz          | Wideband Radio<br>Communication Tester | CMW500 | 104478                                      | 2024-04-24 | 2025-04-23 |
| Narda                    | Attenuator                             | 10dB   | 010                                         | 2024-04-24 | 2025-04-23 |

**Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).



## SUMMARY OF TEST RESULTS

| FCC Rules                                                              | Description of Test                    | Result         | Remark    |
|------------------------------------------------------------------------|----------------------------------------|----------------|-----------|
| §2.1053; §22.917 (a) §24.238 (a); §27.53 (c) (g) (h) (m); §90.691      | Spurious Radiated Emissions            | Compliant      | ---       |
| §2.1046; § 22.913 (a); §24.232 (c); §27.50 (b)( c)(d) (h) §90.635 (b)  | RF Output Power                        | Compliant      | ---       |
| § 2.1047                                                               | Modulation Characteristics             | Not Applicable | ---       |
| §2.1049; §22.905; §22.917; §24.238; §27.53; §90.209                    | Occupied Bandwidth                     | ---            | See Note★ |
| §2.1051; §22.917 (a); §24.238 (a); §27.53 (c) (f) (g) (h) (m); §90.691 | Spurious Emissions at Antenna Terminal | ---            | See Note★ |
| §22.917 (a); §24.238 (a); §27.53 (c) (f) (g) (h) (m); §90.691          | Band Edge                              | ---            | See Note★ |
| §2.1055; §22.355; §24.235; §27.54; §90.213                             | Frequency stability                    | ---            | See Note★ |

Note: The changes will not affect test data, the data are referred to original report CR231168756-00F★which provided by applicant.

## **FCC §2.1046; § 22.913 (a); §24.232 (c); §27.50 (d) (h)(2); §90.635 (b) - RF OUTPUT POWER**

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### **Applicable Standards**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45dBm).

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts (33dBm) EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1780MHz.

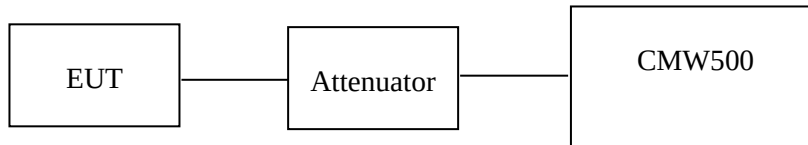
According to §27.50(h) (2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

### **Test Procedure**

#### ***Conducted method:***

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



Test Data: See appendix A

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**FCC § 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (c) (g) (h) (m); § 90.691 - SPURIOUS RADIATED EMISSIONS**

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**Applicable Standards**

FCC § 2.1053, §22.917(a) and § 24.238(a), §90.691 and § 27.53 (c) (f) (g) (h) (m)

22.917 (a) Out of band emissions. 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.

24.238 (a) Out of band emissions. 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.

27.53(h) (m), for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. 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.

27.53 (g)

For operations in the 600 MHz band and the 698-746 MHz 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 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

27.53 (h) AWS emission limits —

(1) General protection levels. 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.

27.53m(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. 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.

Rule Part 90.691 specifies that “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.

**Test Procedure**

According to ANSI C63.26-2015 Section 5.5.3:

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg (\text{TX pwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

**Test Data: See Appendix A**

## **EUT PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT F - TEST SETUP PHOTOGRAPHS.

APPENDIX A - TEST DATA

Environmental Conditions & Test Information

|                    |                             |                                                |
|--------------------|-----------------------------|------------------------------------------------|
| Test Item:         | SPURIOUS RADIATED EMISSIONS | SPOT CHECK WITH MAXIMUM CONDUCTED OUTPUT POWER |
| Test Date:         | 2024/12/15 – 2025/01/07     | 2024/10/30                                     |
| Temperature:       | 16.5 - 25.5 °C              | 20.3 °C                                        |
| Relative Humidity: | 38 - 44 %                   | 52 %                                           |
| ATM Pressure:      | 100.4 – 101.7 kPa           | 101.4 kPa                                      |
| Test Result:       | Pass                        | Pass                                           |
| Test Engineer:     | Grace Luo                   | Neil Zhou                                      |

**SPURIOUS RADIATED EMISSIONS**

Test mode: Transmitting (Pre-scan with all the bandwidth, and worst case as below)

30 MHz ~ 10 GHz:

**GPRS 850 Band**

| Frequency<br>(MHz)        | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|---------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                           |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| GPRS Mode, Low channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 199.99                    | 49.91                         | 110                          | 200            | H              | -55.72                      | 0.42                  | -3.95                        | -60.09                     | -13            | 47.09          |
| 199.99                    | 49.08                         | 206                          | 100            | V              | -56.00                      | 0.42                  | -3.95                        | -60.37                     | -13            | 47.37          |
| 1648.40                   | 58.72                         | 42                           | 150            | H              | -54.62                      | 0.84                  | 8.44                         | -47.02                     | -13            | 34.02          |
| 1648.40                   | 58.11                         | 303                          | 100            | V              | -55.23                      | 0.84                  | 8.44                         | -47.63                     | -13            | 34.63          |
| GPRS Mode, Middle channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 199.99                    | 50.33                         | 140                          | 100            | H              | -55.30                      | 0.42                  | -3.95                        | -59.67                     | -13            | 46.67          |
| 199.99                    | 49.50                         | 226                          | 200            | V              | -55.58                      | 0.42                  | -3.95                        | -59.95                     | -13            | 46.95          |
| 1673.20                   | 58.09                         | 301                          | 200            | H              | -55.08                      | 0.84                  | 8.48                         | -47.44                     | -13            | 34.44          |
| 1673.20                   | 57.64                         | 215                          | 200            | V              | -55.53                      | 0.84                  | 8.48                         | -47.89                     | -13            | 34.89          |
| GPRS Mode, High channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 199.99                    | 50.44                         | 9                            | 100            | H              | -55.19                      | 0.42                  | -3.95                        | -59.56                     | -13            | 46.56          |
| 199.99                    | 49.64                         | 112                          | 200            | V              | -55.44                      | 0.42                  | -3.95                        | -59.81                     | -13            | 46.81          |
| 1697.60                   | 57.43                         | 212                          | 150            | H              | -55.57                      | 0.84                  | 8.52                         | -47.89                     | -13            | 34.89          |
| 1697.60                   | 58.11                         | 77                           | 200            | V              | -54.89                      | 0.84                  | 8.52                         | -47.21                     | -13            | 34.21          |

**WCDMA Band V**

| Frequency<br>(MHz)         | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                            |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| WCDMA Mode, Low channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 491.48                     | 40.36                         | 168                          | 200            | H              | -61.97                      | 0.57                  | -1.90                        | -64.44                     | -13            | 51.44          |
| 491.48                     | 40.06                         | 169                          | 100            | V              | -62.36                      | 0.57                  | -1.90                        | -64.83                     | -13            | 51.83          |
| 1652.80                    | 50.60                         | 288                          | 100            | H              | -62.71                      | 0.84                  | 8.44                         | -55.11                     | -13            | 42.11          |
| 1652.80                    | 50.04                         | 7                            | 100            | V              | -63.27                      | 0.84                  | 8.44                         | -55.67                     | -13            | 42.67          |
| WCDMA Mode, Middle channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 491.48                     | 40.67                         | 185                          | 200            | H              | -61.66                      | 0.57                  | -1.90                        | -64.13                     | -13            | 51.13          |
| 491.48                     | 40.42                         | 151                          | 100            | V              | -62.00                      | 0.57                  | -1.90                        | -64.47                     | -13            | 51.47          |
| 1673.20                    | 49.69                         | 99                           | 100            | H              | -63.48                      | 0.84                  | 8.48                         | -55.84                     | -13            | 42.84          |
| 1673.20                    | 49.29                         | 275                          | 200            | V              | -63.88                      | 0.84                  | 8.48                         | -56.24                     | -13            | 43.24          |
| WCDMA Mode, High channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 491.48                     | 40.42                         | 131                          | 200            | H              | -61.91                      | 0.57                  | -1.90                        | -64.38                     | -13            | 51.38          |
| 491.48                     | 40.12                         | 252                          | 150            | V              | -62.30                      | 0.57                  | -1.90                        | -64.77                     | -13            | 51.77          |
| 1693.20                    | 49.65                         | 143                          | 200            | H              | -63.38                      | 0.84                  | 8.51                         | -55.71                     | -13            | 42.71          |
| 1693.20                    | 49.23                         | 152                          | 200            | V              | -63.80                      | 0.84                  | 8.51                         | -56.13                     | -13            | 43.13          |



**30 MHz ~ 20 GHz:****PCS 1900 Band**

| Frequency<br>(MHz)        | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|---------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                           |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| GPRS Mode, Low channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 389.99                    | 42.83                         | 300                          | 150            | H              | -63.03                      | 0.52                  | -1.43                        | -64.98                     | -13            | 51.98          |
| 389.99                    | 41.11                         | 208                          | 150            | V              | -63.28                      | 0.52                  | -1.43                        | -65.23                     | -13            | 52.23          |
| 3700.40                   | 54.02                         | 100                          | 150            | H              | -52.95                      | 0.95                  | 9.78                         | -44.12                     | -13            | 31.12          |
| 3700.40                   | 53.60                         | 262                          | 200            | V              | -53.37                      | 0.95                  | 9.78                         | -44.54                     | -13            | 31.54          |
| GPRS Mode, Middle channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 389.99                    | 43.53                         | 212                          | 150            | H              | -62.33                      | 0.52                  | -1.43                        | -64.28                     | -13            | 51.28          |
| 389.99                    | 41.78                         | 171                          | 150            | V              | -62.61                      | 0.52                  | -1.43                        | -64.56                     | -13            | 51.56          |
| 3760.00                   | 53.10                         | 186                          | 100            | H              | -53.68                      | 0.95                  | 9.74                         | -44.89                     | -13            | 31.89          |
| 3760.00                   | 52.72                         | 152                          | 100            | V              | -54.06                      | 0.95                  | 9.74                         | -45.27                     | -13            | 32.27          |
| GPRS Mode, High channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 389.99                    | 43.32                         | 32                           | 100            | H              | -62.54                      | 0.52                  | -1.43                        | -64.49                     | -13            | 51.49          |
| 389.99                    | 41.46                         | 20                           | 200            | V              | -62.93                      | 0.52                  | -1.43                        | -64.88                     | -13            | 51.88          |
| 3819.60                   | 53.29                         | 199                          | 100            | H              | -53.30                      | 0.96                  | 9.71                         | -44.55                     | -13            | 31.55          |
| 3819.60                   | 53.01                         | 21                           | 200            | V              | -53.58                      | 0.96                  | 9.71                         | -44.83                     | -13            | 31.83          |

**WCDMA Band II**

| Frequency<br>(MHz)         | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                            |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| WCDMA Mode, Low channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 143.37                     | 47.78                         | 269                          | 200            | H              | -57.35                      | 0.36                  | -6.14                        | -63.85                     | -13            | 50.85          |
| 143.37                     | 42.89                         | 343                          | 150            | V              | -57.47                      | 0.36                  | -6.14                        | -63.97                     | -13            | 50.97          |
| 3704.80                    | 45.99                         | 15                           | 150            | H              | -60.96                      | 0.95                  | 9.78                         | -52.13                     | -13            | 39.13          |
| 3704.80                    | 45.48                         | 192                          | 150            | V              | -61.47                      | 0.95                  | 9.78                         | -52.64                     | -13            | 39.64          |
| WCDMA Mode, Middle channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 143.37                     | 47.99                         | 183                          | 200            | H              | -57.14                      | 0.36                  | -6.14                        | -63.64                     | -13            | 50.64          |
| 143.37                     | 43.04                         | 69                           | 150            | V              | -57.32                      | 0.36                  | -6.14                        | -63.82                     | -13            | 50.82          |
| 3760.00                    | 45.11                         | 259                          | 100            | H              | -61.67                      | 0.95                  | 9.74                         | -52.88                     | -13            | 39.88          |
| 3760.00                    | 44.65                         | 268                          | 100            | V              | -62.13                      | 0.95                  | 9.74                         | -53.34                     | -13            | 40.34          |
| WCDMA Mode, High channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 143.37                     | 48.38                         | 158                          | 100            | H              | -56.75                      | 0.36                  | -6.14                        | -63.25                     | -13            | 50.25          |
| 143.37                     | 43.45                         | 181                          | 150            | V              | -56.91                      | 0.36                  | -6.14                        | -63.41                     | -13            | 50.41          |
| 3815.20                    | 45.29                         | 75                           | 100            | H              | -61.31                      | 0.96                  | 9.71                         | -52.56                     | -13            | 39.56          |
| 3815.20                    | 44.91                         | 139                          | 100            | V              | -61.69                      | 0.96                  | 9.71                         | -52.94                     | -13            | 39.94          |

## WCDMA Band IV

| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                    |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| Low channel        |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 245.83             | 40.82                         | 124                          | 150            | H              | -60.95                      | 0.44                  | -2.39                        | -63.78                     | -13            | 50.78          |
| 245.83             | 48.15                         | 2                            | 100            | V              | -61.16                      | 0.44                  | -2.39                        | -63.99                     | -13            | 50.99          |
| 3424.80            | 58.18                         | 79                           | 100            | H              | -49.74                      | 0.93                  | 9.82                         | -40.85                     | -13            | 27.85          |
| 3424.80            | 57.97                         | 359                          | 200            | V              | -49.95                      | 0.93                  | 9.82                         | -41.06                     | -13            | 28.06          |
| Middle channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 245.83             | 41.34                         | 200                          | 200            | H              | -60.43                      | 0.44                  | -2.39                        | -63.26                     | -13            | 50.26          |
| 245.83             | 48.60                         | 301                          | 150            | V              | -60.71                      | 0.44                  | -2.39                        | -63.54                     | -13            | 50.54          |
| 3465.20            | 58.63                         | 221                          | 200            | H              | -49.12                      | 0.93                  | 9.87                         | -40.18                     | -13            | 27.18          |
| 3465.20            | 58.14                         | 6                            | 200            | V              | -49.61                      | 0.93                  | 9.87                         | -40.67                     | -13            | 27.67          |
| High channel       |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 245.83             | 41.05                         | 45                           | 200            | H              | -60.72                      | 0.44                  | -2.39                        | -63.55                     | -13            | 50.55          |
| 245.83             | 48.41                         | 236                          | 150            | V              | -60.90                      | 0.44                  | -2.39                        | -63.73                     | -13            | 50.73          |
| 3505.20            | 58.05                         | 297                          | 100            | H              | -49.53                      | 0.93                  | 9.91                         | -40.55                     | -13            | 27.55          |
| 3505.20            | 57.64                         | 242                          | 150            | V              | -49.94                      | 0.93                  | 9.91                         | -40.96                     | -13            | 27.96          |

Test mode: Transmitting (Pre-scan with 1RB of all the bandwidth, and worst case as below)

30 MHz ~ 10 GHz:

LTE Band 5:

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 40.61                         | 346                          | 150            | H              | -62.51                      | 0.58                  | -1.95                        | -65.04                     | -13            | 52.04          |
| 499.97                                 | 39.18                         | 343                          | 200            | V              | -62.90                      | 0.58                  | -1.95                        | -65.43                     | -13            | 52.43          |
| 1649.40                                | 59.64                         | 274                          | 100            | H              | -53.70                      | 0.84                  | 8.44                         | -46.10                     | -13            | 33.10          |
| 1649.40                                | 58.51                         | 230                          | 200            | V              | -54.83                      | 0.84                  | 8.44                         | -47.23                     | -13            | 34.23          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 41.52                         | 88                           | 100            | H              | -61.60                      | 0.58                  | -1.95                        | -64.13                     | -13            | 51.13          |
| 499.97                                 | 39.99                         | 271                          | 100            | V              | -62.09                      | 0.58                  | -1.95                        | -64.62                     | -13            | 51.62          |
| 1649.40                                | 59.37                         | 131                          | 100            | H              | -53.97                      | 0.84                  | 8.44                         | -46.37                     | -13            | 33.37          |
| 1649.40                                | 58.62                         | 203                          | 200            | V              | -54.72                      | 0.84                  | 8.44                         | -47.12                     | -13            | 34.12          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 41.76                         | 316                          | 200            | H              | -61.36                      | 0.58                  | -1.95                        | -63.89                     | -13            | 50.89          |
| 499.97                                 | 40.38                         | 191                          | 200            | V              | -61.70                      | 0.58                  | -1.95                        | -64.23                     | -13            | 51.23          |
| 1673.00                                | 58.30                         | 260                          | 150            | H              | -54.87                      | 0.84                  | 8.48                         | -47.23                     | -13            | 34.23          |
| 1673.00                                | 57.67                         | 2                            | 150            | V              | -55.50                      | 0.84                  | 8.48                         | -47.86                     | -13            | 34.86          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 40.54                         | 73                           | 200            | H              | -62.58                      | 0.58                  | -1.95                        | -65.11                     | -13            | 52.11          |
| 499.97                                 | 39.24                         | 39                           | 100            | V              | -62.84                      | 0.58                  | -1.95                        | -65.37                     | -13            | 52.37          |
| 1673.00                                | 59.22                         | 292                          | 100            | H              | -53.95                      | 0.84                  | 8.48                         | -46.31                     | -13            | 33.31          |
| 1673.00                                | 58.56                         | 120                          | 200            | V              | -54.61                      | 0.84                  | 8.48                         | -46.97                     | -13            | 33.97          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 41.87                         | 80                           | 200            | H              | -61.25                      | 0.58                  | -1.95                        | -63.78                     | -13            | 50.78          |
| 499.97                                 | 40.40                         | 242                          | 200            | V              | -61.68                      | 0.58                  | -1.95                        | -64.21                     | -13            | 51.21          |
| 1696.60                                | 58.45                         | 122                          | 100            | H              | -54.56                      | 0.84                  | 8.52                         | -46.88                     | -13            | 33.88          |
| 1696.60                                | 57.98                         | 248                          | 100            | V              | -55.03                      | 0.84                  | 8.52                         | -47.35                     | -13            | 34.35          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 499.97                                 | 41.21                         | 298                          | 200            | H              | -61.91                      | 0.58                  | -1.95                        | -64.44                     | -13            | 51.44          |
| 499.97                                 | 39.74                         | 14                           | 100            | V              | -62.34                      | 0.58                  | -1.95                        | -64.87                     | -13            | 51.87          |
| 1696.60                                | 59.06                         | 212                          | 200            | H              | -53.95                      | 0.84                  | 8.52                         | -46.27                     | -13            | 33.27          |
| 1696.60                                | 58.47                         | 356                          | 150            | V              | -54.54                      | 0.84                  | 8.52                         | -46.86                     | -13            | 33.86          |

**LTE Band 12:**

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 41.26                         | 125                          | 150            | H              | -62.09                      | 0.45                  | -2.22                        | -64.76                     | -13            | 51.76          |
| 266.68                                 | 46.24                         | 247                          | 100            | V              | -62.24                      | 0.45                  | -2.22                        | -64.91                     | -13            | 51.91          |
| 1399.40                                | 56.22                         | 296                          | 100            | H              | -57.95                      | 0.82                  | 7.92                         | -50.85                     | -13            | 37.85          |
| 1399.40                                | 55.54                         | 112                          | 150            | V              | -58.63                      | 0.82                  | 7.92                         | -51.53                     | -13            | 38.53          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 43.13                         | 84                           | 150            | H              | -60.22                      | 0.45                  | -2.22                        | -62.89                     | -13            | 49.89          |
| 266.68                                 | 47.91                         | 77                           | 100            | V              | -60.57                      | 0.45                  | -2.22                        | -63.24                     | -13            | 50.24          |
| 1399.40                                | 55.30                         | 321                          | 100            | H              | -58.87                      | 0.82                  | 7.92                         | -51.77                     | -13            | 38.77          |
| 1399.40                                | 54.73                         | 276                          | 200            | V              | -59.44                      | 0.82                  | 7.92                         | -52.34                     | -13            | 39.34          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 42.59                         | 353                          | 200            | H              | -60.76                      | 0.45                  | -2.22                        | -63.43                     | -13            | 50.43          |
| 266.68                                 | 47.40                         | 149                          | 200            | V              | -61.08                      | 0.45                  | -2.22                        | -63.75                     | -13            | 50.75          |
| 1415.00                                | 56.94                         | 49                           | 200            | H              | -57.26                      | 0.82                  | 7.96                         | -50.12                     | -13            | 37.12          |
| 1415.00                                | 56.17                         | 295                          | 100            | V              | -58.03                      | 0.82                  | 7.96                         | -50.89                     | -13            | 37.89          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 41.90                         | 42                           | 150            | H              | -61.45                      | 0.45                  | -2.22                        | -64.12                     | -13            | 51.12          |
| 266.68                                 | 46.48                         | 184                          | 150            | V              | -62.00                      | 0.45                  | -2.22                        | -64.67                     | -13            | 51.67          |
| 1415.00                                | 56.39                         | 349                          | 200            | H              | -57.81                      | 0.82                  | 7.96                         | -50.67                     | -13            | 37.67          |
| 1415.00                                | 55.45                         | 32                           | 150            | V              | -58.75                      | 0.82                  | 7.96                         | -51.61                     | -13            | 38.61          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 43.56                         | 190                          | 100            | H              | -59.79                      | 0.45                  | -2.22                        | -62.46                     | -13            | 49.46          |
| 266.68                                 | 48.17                         | 216                          | 200            | V              | -60.31                      | 0.45                  | -2.22                        | -62.98                     | -13            | 49.98          |
| 1430.60                                | 56.81                         | 75                           | 150            | H              | -57.42                      | 0.82                  | 8.01                         | -50.23                     | -13            | 37.23          |
| 1430.60                                | 55.70                         | 335                          | 150            | V              | -58.53                      | 0.82                  | 8.01                         | -51.34                     | -13            | 38.34          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 42.13                         | 298                          | 200            | H              | -61.22                      | 0.45                  | -2.22                        | -63.89                     | -13            | 50.89          |
| 266.68                                 | 46.84                         | 49                           | 150            | V              | -61.64                      | 0.45                  | -2.22                        | -64.31                     | -13            | 51.31          |
| 1430.60                                | 55.40                         | 320                          | 100            | H              | -58.83                      | 0.82                  | 8.01                         | -51.64                     | -13            | 38.64          |
| 1430.60                                | 54.67                         | 72                           | 150            | V              | -59.56                      | 0.82                  | 8.01                         | -52.37                     | -13            | 39.37          |

**LTE Band 17:**

| Frequency<br>(MHz)                   | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                      |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 5MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 41.51                         | 203                          | 200            | H              | -61.96                      | 0.45                  | -2.21                        | -64.62                     | -13            | 51.62          |
| 267.65                               | 46.21                         | 51                           | 150            | V              | -62.19                      | 0.45                  | -2.21                        | -64.85                     | -13            | 51.85          |
| 1413.00                              | 53.73                         | 1                            | 200            | H              | -60.47                      | 0.82                  | 7.96                         | -53.33                     | -13            | 40.33          |
| 1413.00                              | 53.12                         | 41                           | 100            | V              | -61.08                      | 0.82                  | 7.96                         | -53.94                     | -13            | 40.94          |
| 2119.50                              | 60.37                         | 49                           | 200            | H              | -50.60                      | 0.86                  | 9.26                         | -42.20                     | -13            | 29.20          |
| 2119.50                              | 59.56                         | 173                          | 100            | V              | -51.41                      | 0.86                  | 9.26                         | -43.01                     | -13            | 30.01          |
| 16-QAM 5MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 42.70                         | 328                          | 100            | H              | -60.77                      | 0.45                  | -2.21                        | -63.43                     | -13            | 50.43          |
| 267.65                               | 47.25                         | 162                          | 200            | V              | -61.15                      | 0.45                  | -2.21                        | -63.81                     | -13            | 50.81          |
| 1413.00                              | 53.60                         | 271                          | 200            | H              | -60.60                      | 0.82                  | 7.96                         | -53.46                     | -13            | 40.46          |
| 1413.00                              | 52.93                         | 0                            | 150            | V              | -61.27                      | 0.82                  | 7.96                         | -54.13                     | -13            | 41.13          |
| 2119.50                              | 59.78                         | 203                          | 100            | H              | -51.19                      | 0.86                  | 9.26                         | -42.79                     | -13            | 29.79          |
| 2119.50                              | 59.22                         | 37                           | 150            | V              | -51.75                      | 0.86                  | 9.26                         | -43.35                     | -13            | 30.35          |
| QPSK 5MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 43.34                         | 91                           | 150            | H              | -60.13                      | 0.45                  | -2.21                        | -62.79                     | -13            | 49.79          |
| 267.65                               | 48.00                         | 336                          | 200            | V              | -60.40                      | 0.45                  | -2.21                        | -63.06                     | -13            | 50.06          |
| 1420.00                              | 54.62                         | 152                          | 100            | H              | -59.59                      | 0.82                  | 7.98                         | -52.43                     | -13            | 39.43          |
| 1420.00                              | 53.96                         | 318                          | 150            | V              | -60.25                      | 0.82                  | 7.98                         | -53.09                     | -13            | 40.09          |
| 2130.00                              | 59.78                         | 298                          | 150            | H              | -51.20                      | 0.86                  | 9.29                         | -42.77                     | -13            | 29.77          |
| 2130.00                              | 58.94                         | 90                           | 100            | V              | -52.04                      | 0.86                  | 9.29                         | -43.61                     | -13            | 30.61          |
| 16-QAM 5MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 43.46                         | 44                           | 150            | H              | -60.01                      | 0.45                  | -2.21                        | -62.67                     | -13            | 49.67          |
| 267.65                               | 48.03                         | 151                          | 200            | V              | -60.37                      | 0.45                  | -2.21                        | -63.03                     | -13            | 50.03          |
| 1420.00                              | 53.93                         | 36                           | 200            | H              | -60.28                      | 0.82                  | 7.98                         | -53.12                     | -13            | 40.12          |
| 1420.00                              | 53.18                         | 105                          | 200            | V              | -61.03                      | 0.82                  | 7.98                         | -53.87                     | -13            | 40.87          |
| 2130.00                              | 59.49                         | 41                           | 150            | H              | -51.49                      | 0.86                  | 9.29                         | -43.06                     | -13            | 30.06          |
| 2130.00                              | 58.66                         | 34                           | 200            | V              | -52.32                      | 0.86                  | 9.29                         | -43.89                     | -13            | 30.89          |
| QPSK 5MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 42.67                         | 358                          | 150            | H              | -60.80                      | 0.45                  | -2.21                        | -63.46                     | -13            | 50.46          |
| 267.65                               | 47.29                         | 244                          | 150            | V              | -61.11                      | 0.45                  | -2.21                        | -63.77                     | -13            | 50.77          |
| 1427.00                              | 54.38                         | 147                          | 200            | H              | -59.84                      | 0.82                  | 8.00                         | -52.66                     | -13            | 39.66          |
| 1427.00                              | 53.83                         | 16                           | 200            | V              | -60.39                      | 0.82                  | 8.00                         | -53.21                     | -13            | 40.21          |
| 2140.50                              | 59.28                         | 37                           | 150            | H              | -51.70                      | 0.86                  | 9.31                         | -43.25                     | -13            | 30.25          |
| 2140.50                              | 58.56                         | 147                          | 100            | V              | -52.42                      | 0.86                  | 9.31                         | -43.97                     | -13            | 30.97          |
| 16-QAM 5MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 267.65                               | 42.27                         | 211                          | 100            | H              | -61.20                      | 0.45                  | -2.21                        | -63.86                     | -13            | 50.86          |
| 267.65                               | 46.85                         | 130                          | 200            | V              | -61.55                      | 0.45                  | -2.21                        | -64.21                     | -13            | 51.21          |
| 1427.00                              | 53.70                         | 184                          | 150            | H              | -60.52                      | 0.82                  | 8.00                         | -53.34                     | -13            | 40.34          |
| 1427.00                              | 52.92                         | 202                          | 150            | V              | -61.30                      | 0.82                  | 8.00                         | -54.12                     | -13            | 41.12          |
| 2140.50                              | 60.45                         | 45                           | 150            | H              | -50.53                      | 0.86                  | 9.31                         | -42.08                     | -13            | 29.08          |
| 2140.50                              | 59.88                         | 270                          | 150            | V              | -51.10                      | 0.86                  | 9.31                         | -42.65                     | -13            | 29.65          |

**LTE Band 26: (814MHz~824MHz)**

| Frequency<br>(MHz)                   | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                      |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                               | 41.48                         | 224                          | 100            | H              | -63.52                      | 0.58                  | -1.30                        | -65.40                     | -13            | 52.40          |
| 550.16                               | 36.56                         | 219                          | 150            | V              | -63.94                      | 0.58                  | -1.30                        | -65.82                     | -13            | 52.82          |
| 1629.40                              | 62.50                         | 198                          | 200            | H              | -50.97                      | 0.84                  | 8.41                         | -43.40                     | -13            | 30.40          |
| 1629.40                              | 61.66                         | 44                           | 200            | V              | -51.81                      | 0.84                  | 8.41                         | -44.24                     | -13            | 31.24          |
| 16-QAM 1.4MHz Bandwidth Low Channel  |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                               | 43.45                         | 34                           | 200            | H              | -61.55                      | 0.58                  | -1.30                        | -63.43                     | -13            | 50.43          |
| 550.16                               | 38.59                         | 287                          | 200            | V              | -61.91                      | 0.58                  | -1.30                        | -63.79                     | -13            | 50.79          |
| 1629.40                              | 62.34                         | 166                          | 200            | H              | -51.13                      | 0.84                  | 8.41                         | -43.56                     | -13            | 30.56          |
| 1629.40                              | 61.73                         | 353                          | 200            | V              | -51.74                      | 0.84                  | 8.41                         | -44.17                     | -13            | 31.17          |
| QPSK 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                               | 40.33                         | 341                          | 100            | H              | -64.67                      | 0.58                  | -1.30                        | -66.55                     | -13            | 53.55          |
| 550.16                               | 36.91                         | 10                           | 150            | V              | -63.59                      | 0.58                  | -1.30                        | -65.47                     | -13            | 52.47          |
| 1646.60                              | 60.37                         | 347                          | 200            | H              | -52.99                      | 0.84                  | 8.43                         | -45.4                      | -13            | 32.4           |
| 1646.60                              | 60.56                         | 346                          | 150            | V              | -52.8                       | 0.84                  | 8.43                         | -45.21                     | -13            | 32.21          |
| 16-QAM 1.4MHz Bandwidth High Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                               | 41.36                         | 122                          | 150            | H              | -63.64                      | 0.58                  | -1.30                        | -65.52                     | -13            | 52.52          |
| 550.16                               | 37.68                         | 35                           | 150            | V              | -62.82                      | 0.58                  | -1.30                        | -64.7                      | -13            | 51.7           |
| 1646.60                              | 60.70                         | 92                           | 150            | H              | -52.66                      | 0.84                  | 8.43                         | -45.07                     | -13            | 32.07          |
| 1646.60                              | 60.21                         | 6                            | 200            | V              | -53.15                      | 0.84                  | 8.43                         | -45.56                     | -13            | 32.56          |

**LTE Band 26(824MHz~849MHz)**

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 40.37                         | 302                          | 150            | H              | -64.63                      | 0.58                  | -1.30                        | -66.51                     | -13            | 53.51          |
| 550.16                                 | 36.98                         | 113                          | 150            | V              | -63.52                      | 0.58                  | -1.30                        | -65.4                      | -13            | 52.4           |
| 1649.40                                | 62.37                         | 220                          | 200            | H              | -50.97                      | 0.84                  | 8.44                         | -43.37                     | -13            | 30.37          |
| 1649.40                                | 61.38                         | 157                          | 150            | V              | -51.96                      | 0.84                  | 8.44                         | -44.36                     | -13            | 31.36          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 42.08                         | 235                          | 100            | H              | -62.92                      | 0.58                  | -1.30                        | -64.8                      | -13            | 51.8           |
| 550.16                                 | 39.02                         | 118                          | 150            | V              | -61.48                      | 0.58                  | -1.30                        | -63.36                     | -13            | 50.36          |
| 1649.40                                | 62.55                         | 102                          | 200            | H              | -50.79                      | 0.84                  | 8.44                         | -43.19                     | -13            | 30.19          |
| 1649.40                                | 60.79                         | 54                           | 150            | V              | -52.55                      | 0.84                  | 8.44                         | -44.95                     | -13            | 31.95          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 42.94                         | 130                          | 200            | H              | -62.06                      | 0.58                  | -1.30                        | -63.94                     | -13            | 50.94          |
| 550.16                                 | 38.05                         | 180                          | 100            | V              | -62.45                      | 0.58                  | -1.30                        | -64.33                     | -13            | 51.33          |
| 1663.00                                | 61.25                         | 335                          | 100            | H              | -51.99                      | 0.84                  | 8.46                         | -44.37                     | -13            | 31.37          |
| 1663.00                                | 60.41                         | 187                          | 100            | V              | -52.83                      | 0.84                  | 8.46                         | -45.21                     | -13            | 32.21          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 42.63                         | 133                          | 150            | H              | -62.37                      | 0.58                  | -1.30                        | -64.25                     | -13            | 51.25          |
| 550.16                                 | 37.77                         | 149                          | 200            | V              | -62.73                      | 0.58                  | -1.30                        | -64.61                     | -13            | 51.61          |
| 1663.00                                | 61.50                         | 242                          | 150            | H              | -51.74                      | 0.84                  | 8.46                         | -44.12                     | -13            | 31.12          |
| 1663.00                                | 60.76                         | 252                          | 150            | V              | -52.48                      | 0.84                  | 8.46                         | -44.86                     | -13            | 31.86          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 41.99                         | 334                          | 100            | H              | -63.01                      | 0.58                  | -1.30                        | -64.89                     | -13            | 51.89          |
| 550.16                                 | 37.32                         | 1                            | 150            | V              | -63.18                      | 0.58                  | -1.30                        | -65.06                     | -13            | 52.06          |
| 1696.60                                | 61.78                         | 347                          | 200            | H              | -51.23                      | 0.84                  | 8.51                         | -43.56                     | -13            | 30.56          |
| 1696.60                                | 61.09                         | 346                          | 150            | V              | -51.92                      | 0.84                  | 8.51                         | -44.25                     | -13            | 31.25          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 550.16                                 | 42.55                         | 85                           | 100            | H              | -62.45                      | 0.58                  | -1.30                        | -64.33                     | -13            | 51.33          |
| 550.16                                 | 37.64                         | 350                          | 100            | V              | -62.86                      | 0.58                  | -1.30                        | -64.74                     | -13            | 51.74          |
| 1696.60                                | 60.70                         | 92                           | 150            | H              | -52.31                      | 0.84                  | 8.51                         | -44.64                     | -13            | 31.64          |
| 1696.60                                | 60.21                         | 6                            | 200            | V              | -52.80                      | 0.84                  | 8.51                         | -45.13                     | -13            | 32.13          |

**30 MHz ~ 20 GHz:****LTE Band 2:**

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 40.53                         | 280                          | 100            | H              | -61.93                      | 0.59                  | -0.65                        | -63.17                     | -13            | 50.17          |
| 600.00                                 | 39.47                         | 207                          | 200            | V              | -62.22                      | 0.59                  | -0.65                        | -63.46                     | -13            | 50.46          |
| 3701.40                                | 44.89                         | 141                          | 200            | H              | -62.07                      | 0.95                  | 9.78                         | -53.24                     | -13            | 40.24          |
| 3701.40                                | 44.27                         | 181                          | 100            | V              | -62.69                      | 0.95                  | 9.78                         | -53.86                     | -13            | 40.86          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 40.28                         | 93                           | 150            | H              | -62.18                      | 0.59                  | -0.65                        | -63.42                     | -13            | 50.42          |
| 600.00                                 | 39.18                         | 161                          | 200            | V              | -62.51                      | 0.59                  | -0.65                        | -63.75                     | -13            | 50.75          |
| 3701.40                                | 44.01                         | 112                          | 150            | H              | -62.95                      | 0.95                  | 9.78                         | -54.12                     | -13            | 41.12          |
| 3701.40                                | 43.42                         | 308                          | 200            | V              | -63.54                      | 0.95                  | 9.78                         | -54.71                     | -13            | 41.71          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 40.73                         | 348                          | 100            | H              | -61.73                      | 0.59                  | -0.65                        | -62.97                     | -13            | 49.97          |
| 600.00                                 | 39.92                         | 117                          | 100            | V              | -61.77                      | 0.59                  | -0.65                        | -63.01                     | -13            | 50.01          |
| 3760.00                                | 44.23                         | 340                          | 150            | H              | -62.55                      | 0.95                  | 9.74                         | -53.76                     | -13            | 40.76          |
| 3760.00                                | 43.78                         | 226                          | 100            | V              | -63.00                      | 0.95                  | 9.74                         | -54.21                     | -13            | 41.21          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 41.14                         | 192                          | 200            | H              | -61.32                      | 0.59                  | -0.65                        | -62.56                     | -13            | 49.56          |
| 600.00                                 | 40.05                         | 162                          | 150            | V              | -61.64                      | 0.59                  | -0.65                        | -62.88                     | -13            | 49.88          |
| 3760.00                                | 44.66                         | 77                           | 200            | H              | -62.12                      | 0.95                  | 9.74                         | -53.33                     | -13            | 40.33          |
| 3760.00                                | 44.21                         | 335                          | 150            | V              | -62.57                      | 0.95                  | 9.74                         | -53.78                     | -13            | 40.78          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 40.49                         | 178                          | 150            | H              | -61.97                      | 0.59                  | -0.65                        | -63.21                     | -13            | 50.21          |
| 600.00                                 | 39.29                         | 213                          | 150            | V              | -62.40                      | 0.59                  | -0.65                        | -63.64                     | -13            | 50.64          |
| 3818.60                                | 43.75                         | 96                           | 100            | H              | -62.84                      | 0.96                  | 9.71                         | -54.09                     | -13            | 41.09          |
| 3818.60                                | 43.18                         | 156                          | 200            | V              | -63.41                      | 0.96                  | 9.71                         | -54.66                     | -13            | 41.66          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 600.00                                 | 41.15                         | 144                          | 200            | H              | -61.31                      | 0.59                  | -0.65                        | -62.55                     | -13            | 49.55          |
| 600.00                                 | 40.04                         | 296                          | 200            | V              | -61.65                      | 0.59                  | -0.65                        | -62.89                     | -13            | 49.89          |
| 3818.60                                | 44.63                         | 46                           | 200            | H              | -61.96                      | 0.96                  | 9.71                         | -53.21                     | -13            | 40.21          |
| 3818.60                                | 43.65                         | 155                          | 200            | V              | -62.94                      | 0.96                  | 9.71                         | -54.19                     | -13            | 41.19          |



**LTE Band 4:**

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 42.24                         | 166                          | 100            | H              | -61.11                      | 0.45                  | -2.22                        | -63.78                     | -13            | 50.78          |
| 266.68                                 | 47.03                         | 263                          | 150            | V              | -61.45                      | 0.45                  | -2.22                        | -64.12                     | -13            | 51.12          |
| 3421.40                                | 59.62                         | 166                          | 150            | H              | -48.32                      | 0.93                  | 9.82                         | -39.43                     | -13            | 26.43          |
| 3421.40                                | 58.89                         | 209                          | 200            | V              | -49.05                      | 0.93                  | 9.82                         | -40.16                     | -13            | 27.16          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 43.46                         | 264                          | 100            | H              | -59.89                      | 0.45                  | -2.22                        | -62.56                     | -13            | 49.56          |
| 266.68                                 | 48.21                         | 293                          | 200            | V              | -60.27                      | 0.45                  | -2.22                        | -62.94                     | -13            | 49.94          |
| 3421.40                                | 60.94                         | 270                          | 150            | H              | -47.00                      | 0.93                  | 9.82                         | -38.11                     | -13            | 25.11          |
| 3421.40                                | 60.26                         | 305                          | 150            | V              | -47.68                      | 0.93                  | 9.82                         | -38.79                     | -13            | 25.79          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 43.59                         | 112                          | 100            | H              | -59.76                      | 0.45                  | -2.22                        | -62.43                     | -13            | 49.43          |
| 266.68                                 | 48.36                         | 173                          | 100            | V              | -60.12                      | 0.45                  | -2.22                        | -62.79                     | -13            | 49.79          |
| 3465.00                                | 60.09                         | 199                          | 200            | H              | -47.66                      | 0.93                  | 9.87                         | -38.72                     | -13            | 25.72          |
| 3465.00                                | 59.47                         | 109                          | 100            | V              | -48.28                      | 0.93                  | 9.87                         | -39.34                     | -13            | 26.34          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 42.81                         | 354                          | 100            | H              | -60.54                      | 0.45                  | -2.22                        | -63.21                     | -13            | 50.21          |
| 266.68                                 | 47.50                         | 172                          | 100            | V              | -60.98                      | 0.45                  | -2.22                        | -63.65                     | -13            | 50.65          |
| 3465.00                                | 59.65                         | 166                          | 100            | H              | -48.10                      | 0.93                  | 9.87                         | -39.16                     | -13            | 26.16          |
| 3465.00                                | 58.99                         | 194                          | 200            | V              | -48.76                      | 0.93                  | 9.87                         | -39.82                     | -13            | 26.82          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 44.03                         | 190                          | 200            | H              | -59.32                      | 0.45                  | -2.22                        | -61.99                     | -13            | 48.99          |
| 266.68                                 | 48.81                         | 297                          | 100            | V              | -59.67                      | 0.45                  | -2.22                        | -62.34                     | -13            | 49.34          |
| 3508.60                                | 61.60                         | 85                           | 200            | H              | -45.97                      | 0.93                  | 9.89                         | -37.01                     | -13            | 24.01          |
| 3508.60                                | 60.05                         | 237                          | 200            | V              | -47.52                      | 0.93                  | 9.89                         | -38.56                     | -13            | 25.56          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                                 | 43.58                         | 111                          | 200            | H              | -59.77                      | 0.45                  | -2.22                        | -62.44                     | -13            | 49.44          |
| 266.68                                 | 48.32                         | 91                           | 100            | V              | -60.16                      | 0.45                  | -2.22                        | -62.83                     | -13            | 49.83          |
| 3508.60                                | 60.28                         | 94                           | 200            | H              | -47.29                      | 0.93                  | 9.89                         | -38.33                     | -13            | 25.33          |
| 3508.60                                | 59.92                         | 285                          | 200            | V              | -47.65                      | 0.93                  | 9.89                         | -38.69                     | -13            | 25.69          |

**LTE Band 25:**

| Frequency<br>(MHz)                     | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|----------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                        |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 1.4MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 42.90                         | 269                          | 150            | H              | -61.32                      | 0.58                  | -1.57                        | -63.47                     | -13            | 50.47          |
| 529.19                                 | 39.49                         | 8                            | 200            | V              | -61.67                      | 0.58                  | -1.57                        | -63.82                     | -13            | 50.82          |
| 3701.40                                | 44.00                         | 127                          | 100            | H              | -62.96                      | 0.95                  | 9.78                         | -54.13                     | -13            | 41.13          |
| 3701.40                                | 43.27                         | 287                          | 200            | V              | -63.69                      | 0.95                  | 9.78                         | -54.86                     | -13            | 41.86          |
| 16-QAM 1.4MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 43.21                         | 25                           | 100            | H              | -61.01                      | 0.58                  | -1.57                        | -63.16                     | -13            | 50.16          |
| 529.19                                 | 39.74                         | 154                          | 100            | V              | -61.42                      | 0.58                  | -1.57                        | -63.57                     | -13            | 50.57          |
| 3701.40                                | 44.37                         | 304                          | 100            | H              | -62.59                      | 0.95                  | 9.78                         | -53.76                     | -13            | 40.76          |
| 3701.40                                | 43.80                         | 38                           | 200            | V              | -63.16                      | 0.95                  | 9.78                         | -54.33                     | -13            | 41.33          |
| QPSK 1.4MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 43.49                         | 287                          | 150            | H              | -60.73                      | 0.58                  | -1.57                        | -62.88                     | -13            | 49.88          |
| 529.19                                 | 40.08                         | 277                          | 150            | V              | -61.08                      | 0.58                  | -1.57                        | -63.23                     | -13            | 50.23          |
| 3765.00                                | 44.85                         | 243                          | 100            | H              | -61.91                      | 0.95                  | 9.74                         | -53.12                     | -13            | 40.12          |
| 3765.00                                | 44.13                         | 62                           | 150            | V              | -62.63                      | 0.95                  | 9.74                         | -53.84                     | -13            | 40.84          |
| 16-QAM 1.4MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 42.58                         | 186                          | 200            | H              | -61.64                      | 0.58                  | -1.57                        | -63.79                     | -13            | 50.79          |
| 529.19                                 | 39.26                         | 85                           | 200            | V              | -61.90                      | 0.58                  | -1.57                        | -64.05                     | -13            | 51.05          |
| 3765.00                                | 43.76                         | 146                          | 200            | H              | -63.00                      | 0.95                  | 9.74                         | -54.21                     | -13            | 41.21          |
| 3765.00                                | 43.18                         | 308                          | 200            | V              | -63.58                      | 0.95                  | 9.74                         | -54.79                     | -13            | 41.79          |
| QPSK 1.4MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 42.94                         | 346                          | 200            | H              | -61.28                      | 0.58                  | -1.57                        | -63.43                     | -13            | 50.43          |
| 529.19                                 | 39.50                         | 55                           | 200            | V              | -61.66                      | 0.58                  | -1.57                        | -63.81                     | -13            | 50.81          |
| 3828.60                                | 44.24                         | 136                          | 150            | H              | -62.32                      | 0.96                  | 9.70                         | -53.58                     | -13            | 40.58          |
| 3828.60                                | 43.76                         | 256                          | 150            | V              | -62.80                      | 0.96                  | 9.70                         | -54.06                     | -13            | 41.06          |
| 16-QAM 1.4MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 529.19                                 | 43.44                         | 229                          | 100            | H              | -60.78                      | 0.58                  | -1.57                        | -62.93                     | -13            | 49.93          |
| 529.19                                 | 39.86                         | 136                          | 100            | V              | -61.30                      | 0.58                  | -1.57                        | -63.45                     | -13            | 50.45          |
| 3828.60                                | 43.46                         | 130                          | 200            | H              | -63.10                      | 0.96                  | 9.70                         | -54.36                     | -13            | 41.36          |
| 3828.60                                | 43.01                         | 85                           | 150            | V              | -63.55                      | 0.96                  | 9.70                         | -54.81                     | -13            | 41.81          |

**30 MHz ~ 27 GHz:****LTE Band 7:**

| Frequency<br>(MHz)                   | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                      |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 5MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 41.80                         | 335                          | 100            | H              | -61.55                      | 0.45                  | -2.22                        | -64.22                     | -25            | 39.22          |
| 266.68                               | 46.62                         | 277                          | 150            | V              | -61.86                      | 0.45                  | -2.22                        | -64.53                     | -25            | 39.53          |
| 5005.00                              | 61.13                         | 106                          | 200            | H              | -44.86                      | 1.08                  | 10.30                        | -35.64                     | -25            | 10.64          |
| 5005.00                              | 60.50                         | 121                          | 200            | V              | -45.49                      | 1.08                  | 10.30                        | -36.27                     | -25            | 11.27          |
| 16-QAM 5MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 42.23                         | 159                          | 150            | H              | -61.12                      | 0.45                  | -2.22                        | -63.79                     | -25            | 38.79          |
| 266.68                               | 47.03                         | 359                          | 150            | V              | -61.45                      | 0.45                  | -2.22                        | -64.12                     | -25            | 39.12          |
| 5005.00                              | 62.13                         | 16                           | 200            | H              | -43.86                      | 1.08                  | 10.30                        | -34.64                     | -25            | 9.64           |
| 5005.00                              | 61.54                         | 277                          | 200            | V              | -44.45                      | 1.08                  | 10.30                        | -35.23                     | -25            | 10.23          |
| QPSK 5MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 42.61                         | 356                          | 100            | H              | -60.74                      | 0.45                  | -2.22                        | -63.41                     | -25            | 38.41          |
| 266.68                               | 47.32                         | 2                            | 150            | V              | -61.16                      | 0.45                  | -2.22                        | -63.83                     | -25            | 38.83          |
| 5070.00                              | 62.31                         | 289                          | 200            | H              | -43.32                      | 1.09                  | 10.30                        | -34.11                     | -25            | 9.11           |
| 5070.00                              | 61.56                         | 162                          | 100            | V              | -44.07                      | 1.09                  | 10.30                        | -34.86                     | -25            | 9.86           |
| 16-QAM 5MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 42.03                         | 353                          | 150            | H              | -61.32                      | 0.45                  | -2.22                        | -63.99                     | -25            | 38.99          |
| 266.68                               | 46.84                         | 305                          | 100            | V              | -61.64                      | 0.45                  | -2.22                        | -64.31                     | -25            | 39.31          |
| 5070.00                              | 61.66                         | 274                          | 150            | H              | -43.97                      | 1.09                  | 10.30                        | -34.76                     | -25            | 9.76           |
| 5070.00                              | 60.95                         | 70                           | 100            | V              | -44.68                      | 1.09                  | 10.30                        | -35.47                     | -25            | 10.47          |
| QPSK 5MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 41.99                         | 69                           | 150            | H              | -61.36                      | 0.45                  | -2.22                        | -64.03                     | -25            | 39.03          |
| 266.68                               | 46.80                         | 235                          | 150            | V              | -61.68                      | 0.45                  | -2.22                        | -64.35                     | -25            | 39.35          |
| 5135.00                              | 61.17                         | 39                           | 150            | H              | -44.10                      | 1.10                  | 10.30                        | -34.90                     | -25            | 9.90           |
| 5135.00                              | 60.46                         | 352                          | 150            | V              | -44.81                      | 1.10                  | 10.30                        | -35.61                     | -25            | 10.61          |
| 16-QAM 5MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 266.68                               | 42.46                         | 15                           | 100            | H              | -60.89                      | 0.45                  | -2.22                        | -63.56                     | -25            | 38.56          |
| 266.68                               | 47.34                         | 120                          | 150            | V              | -61.14                      | 0.45                  | -2.22                        | -63.81                     | -25            | 38.81          |
| 5135.00                              | 60.43                         | 317                          | 150            | H              | -44.84                      | 1.10                  | 10.30                        | -35.64                     | -25            | 10.64          |
| 5135.00                              | 59.80                         | 208                          | 100            | V              | -45.47                      | 1.10                  | 10.30                        | -36.27                     | -25            | 11.27          |

**LTE Band 38:**

| Frequency<br>(MHz)                   | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                      |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 5MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 42.85                         | 40                           | 200            | H              | -61.56                      | 0.58                  | -1.51                        | -63.65                     | -25            | 38.65          |
| 534.16                               | 38.96                         | 197                          | 200            | V              | -62.04                      | 0.58                  | -1.51                        | -64.13                     | -25            | 39.13          |
| 5145.00                              | 58.47                         | 164                          | 150            | H              | -46.74                      | 1.10                  | 10.30                        | -37.54                     | -25            | 12.54          |
| 5145.00                              | 57.89                         | 79                           | 100            | V              | -47.32                      | 1.10                  | 10.30                        | -38.12                     | -25            | 13.12          |
| 16-QAM 5MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 43.08                         | 235                          | 200            | H              | -61.33                      | 0.58                  | -1.51                        | -63.42                     | -25            | 38.42          |
| 534.16                               | 39.25                         | 168                          | 200            | V              | -61.75                      | 0.58                  | -1.51                        | -63.84                     | -25            | 38.84          |
| 5145.00                              | 59.20                         | 16                           | 100            | H              | -46.01                      | 1.10                  | 10.30                        | -36.81                     | -25            | 11.81          |
| 5145.00                              | 58.67                         | 29                           | 100            | V              | -46.54                      | 1.10                  | 10.30                        | -37.34                     | -25            | 12.34          |
| QPSK 5MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 43.74                         | 277                          | 200            | H              | -60.67                      | 0.58                  | -1.51                        | -62.76                     | -25            | 37.76          |
| 534.16                               | 40.08                         | 84                           | 150            | V              | -60.92                      | 0.58                  | -1.51                        | -63.01                     | -25            | 38.01          |
| 5190.00                              | 58.88                         | 170                          | 100            | H              | -46.08                      | 1.11                  | 10.30                        | -36.89                     | -25            | 11.89          |
| 5190.00                              | 58.50                         | 209                          | 200            | V              | -46.46                      | 1.11                  | 10.30                        | -37.27                     | -25            | 12.27          |
| 16-QAM 5MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 43.94                         | 42                           | 200            | H              | -60.47                      | 0.58                  | -1.51                        | -62.56                     | -25            | 37.56          |
| 534.16                               | 40.10                         | 285                          | 100            | V              | -60.90                      | 0.58                  | -1.51                        | -62.99                     | -25            | 37.99          |
| 5190.00                              | 58.66                         | 248                          | 150            | H              | -46.30                      | 1.11                  | 10.30                        | -37.11                     | -25            | 12.11          |
| 5190.00                              | 57.82                         | 164                          | 200            | V              | -47.14                      | 1.11                  | 10.30                        | -37.95                     | -25            | 12.95          |
| QPSK 5MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 43.17                         | 44                           | 150            | H              | -61.24                      | 0.58                  | -1.51                        | -63.33                     | -25            | 38.33          |
| 534.16                               | 39.33                         | 267                          | 200            | V              | -61.67                      | 0.58                  | -1.51                        | -63.76                     | -25            | 38.76          |
| 5235.00                              | 59.20                         | 64                           | 150            | H              | -45.51                      | 1.12                  | 10.30                        | -36.33                     | -25            | 11.33          |
| 5235.00                              | 58.38                         | 85                           | 200            | V              | -46.33                      | 1.12                  | 10.30                        | -37.15                     | -25            | 12.15          |
| 16-QAM 5MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 534.16                               | 43.61                         | 164                          | 150            | H              | -60.80                      | 0.58                  | -1.51                        | -62.89                     | -25            | 37.89          |
| 534.16                               | 39.68                         | 139                          | 150            | V              | -61.32                      | 0.58                  | -1.51                        | -63.41                     | -25            | 38.41          |
| 5235.00                              | 59.32                         | 205                          | 100            | H              | -45.39                      | 1.12                  | 10.30                        | -36.21                     | -25            | 11.21          |
| 5235.00                              | 58.67                         | 333                          | 100            | V              | -46.04                      | 1.12                  | 10.30                        | -36.86                     | -25            | 11.86          |

**LTE Band 41:**

| Frequency<br>(MHz)                   | Receiver<br>Reading<br>(dBμV) | Turntable<br>Angle<br>Degree | Rx Antenna     |                | Substituted                 |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------------------------|-------------------------------|------------------------------|----------------|----------------|-----------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                                      |                               |                              | Height<br>(cm) | Polar<br>(H/V) | Submitted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBd/dBi) |                            |                |                |
| QPSK 5MHz Bandwidth Low Channel      |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 43.54                         | 134                          | 200            | H              | -60.52                      | 0.58                  | -1.63                        | -62.73                     | -25            | 37.73          |
| 524.94                               | 40.39                         | 313                          | 100            | V              | -60.90                      | 0.58                  | -1.63                        | -63.11                     | -25            | 38.11          |
| 5075.00                              | 59.62                         | 44                           | 100            | H              | -45.98                      | 1.09                  | 10.30                        | -36.77                     | -25            | 11.77          |
| 5075.00                              | 59.13                         | 4                            | 100            | V              | -46.47                      | 1.09                  | 10.30                        | -37.26                     | -25            | 12.26          |
| 16-QAM 5MHz Bandwidth Low Channel    |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 43.93                         | 221                          | 150            | H              | -60.13                      | 0.58                  | -1.63                        | -62.34                     | -25            | 37.34          |
| 524.94                               | 40.77                         | 211                          | 200            | V              | -60.52                      | 0.58                  | -1.63                        | -62.73                     | -25            | 37.73          |
| 5075.00                              | 60.58                         | 181                          | 100            | H              | -45.02                      | 1.09                  | 10.30                        | -35.81                     | -25            | 10.81          |
| 5075.00                              | 60.02                         | 226                          | 150            | V              | -45.58                      | 1.09                  | 10.30                        | -36.37                     | -25            | 11.37          |
| QPSK 5MHz Bandwidth Middle Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 43.72                         | 122                          | 100            | H              | -60.34                      | 0.58                  | -1.63                        | -62.55                     | -25            | 37.55          |
| 524.94                               | 40.67                         | 77                           | 200            | V              | -60.62                      | 0.58                  | -1.63                        | -62.83                     | -25            | 37.83          |
| 5190.00                              | 59.42                         | 42                           | 150            | H              | -45.54                      | 1.10                  | 10.30                        | -36.34                     | -25            | 11.34          |
| 5190.00                              | 58.85                         | 196                          | 150            | V              | -46.11                      | 1.10                  | 10.30                        | -36.91                     | -25            | 11.91          |
| 16-QAM 5MHz Bandwidth Middle Channel |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 43.21                         | 74                           | 100            | H              | -60.85                      | 0.58                  | -1.63                        | -63.06                     | -25            | 38.06          |
| 524.94                               | 39.96                         | 36                           | 200            | V              | -61.33                      | 0.58                  | -1.63                        | -63.54                     | -25            | 38.54          |
| 5190.00                              | 60.64                         | 357                          | 150            | H              | -44.32                      | 1.10                  | 10.30                        | -35.12                     | -25            | 10.12          |
| 5190.00                              | 59.49                         | 138                          | 200            | V              | -45.47                      | 1.10                  | 10.30                        | -36.27                     | -25            | 11.27          |
| QPSK 5MHz Bandwidth High Channel     |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 44.34                         | 188                          | 100            | H              | -59.72                      | 0.58                  | -1.63                        | -61.93                     | -25            | 36.93          |
| 524.94                               | 41.14                         | 323                          | 150            | V              | -60.15                      | 0.58                  | -1.63                        | -62.36                     | -25            | 37.36          |
| 5305.00                              | 59.26                         | 9                            | 100            | H              | -45.06                      | 1.12                  | 10.30                        | -35.88                     | -25            | 10.88          |
| 5305.00                              | 58.89                         | 215                          | 150            | V              | -45.43                      | 1.12                  | 10.30                        | -36.25                     | -25            | 11.25          |
| 16-QAM 5MHz Bandwidth High Channel   |                               |                              |                |                |                             |                       |                              |                            |                |                |
| 524.94                               | 43.92                         | 358                          | 150            | H              | -60.14                      | 0.58                  | -1.63                        | -62.35                     | -25            | 37.35          |
| 524.94                               | 40.73                         | 359                          | 100            | V              | -60.56                      | 0.58                  | -1.63                        | -62.77                     | -25            | 37.77          |
| 5305.00                              | 59.07                         | 7                            | 200            | H              | -45.25                      | 1.12                  | 10.30                        | -36.07                     | -25            | 11.07          |
| 5305.00                              | 58.39                         | 281                          | 200            | V              | -45.93                      | 1.12                  | 10.30                        | -36.75                     | -25            | 11.75          |

**Note:**

- 1) Absolute Level (dBm) = Submitted Level (dBm) - Cable loss (dB) + Antenna Gain (dBd/dBi)
- 2) Margin (dB) = Limit (dBm) - Absolute Level (dBm)

**SPOT CHECK WITH MAXIMUM CONDUCTED OUTPUT POWER****GPRS/EGPRS 850 Band**

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | Maximum ERP (dBm) | ERP Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|-------------------|-----------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots |                   |                 |
| GPRS | 128     | 824.2           | 31.42                      | 30.18   | 28.79   | 27.48   | 28.97             | 38.45           |
|      | 190     | 836.6           | 31.98                      | 31.75   | 29.42   | 28.31   | 29.53             | 38.45           |
|      | 251     | 848.8           | 32.30                      | 31.18   | 29.80   | 28.47   | 29.85             | 38.45           |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | Maximum ERP (dBm) | ERP Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|-------------------|-----------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots |                   |                 |
| EGPRS | 128     | 824.2           | 29.63                      | 28.48   | 25.64   | 24.58   | 27.18             | 38.45           |
|       | 190     | 836.6           | 29.80                      | 28.22   | 25.90   | 24.28   | 27.35             | 38.45           |
|       | 251     | 848.8           | 29.05                      | 28.51   | 25.84   | 24.36   | 26.60             | 38.45           |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

**GPRS/EGPRS 1900 Band**

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|--------------------|------------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots |                    |                  |
| GPRS | 512     | 1850.2          | 28.31                      | 27.88   | 26.47   | 25.88   | 30.62              | 33               |
|      | 661     | 1880            | 28.91                      | 28.47   | 27.08   | 25.32   | 31.22              | 33               |
|      | 810     | 1909.8          | 28.47                      | 28.06   | 26.69   | 25.54   | 30.78              | 33               |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|--------------------|------------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots |                    |                  |
| EGPRS | 512     | 1850.2          | 26.99                      | 26.68   | 25.92   | 25.02   | 29.30              | 33               |
|       | 661     | 1880            | 26.84                      | 26.47   | 25.54   | 24.27   | 29.15              | 33               |
|       | 810     | 1909.8          | 26.72                      | 26.33   | 25.37   | 24.17   | 29.03              | 33               |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

**WCDMA Band II**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|----------------|-----------|---------------|----------------------------|-------|-------|--------------------|------------------|
|                |           |               | Low                        | Mid   | High  |                    |                  |
| WCDMA (Band 2) | WCDMA R99 |               | 22.20                      | 22.83 | 22.52 | 25.14              | 33               |
|                | HSDPA     | 1             | 22.71                      | 22.48 | 22.58 | 25.02              | 33               |
|                |           | 2             | 22.64                      | 22.41 | 22.51 | 24.95              | 33               |
|                |           | 3             | 22.53                      | 22.35 | 22.46 | 24.84              | 33               |
|                |           | 4             | 22.48                      | 22.28 | 22.40 | 24.79              | 33               |
|                | HSUPA     | 1             | 22.41                      | 22.19 | 22.32 | 24.72              | 33               |
|                |           | 2             | 22.37                      | 22.10 | 22.26 | 24.68              | 33               |
|                |           | 3             | 22.30                      | 22.03 | 22.19 | 24.61              | 33               |
|                |           | 4             | 22.22                      | 21.94 | 22.10 | 24.53              | 33               |
|                |           | 5             | 22.16                      | 21.87 | 22.03 | 24.47              | 33               |
|                | DC-HSDPA  | 1             | 22.08                      | 21.79 | 21.97 | 24.39              | 33               |
|                |           | 2             | 21.94                      | 21.71 | 21.89 | 24.25              | 33               |
|                |           | 3             | 21.88                      | 21.64 | 21.76 | 24.19              | 33               |
|                |           | 4             | 21.75                      | 21.59 | 21.68 | 24.06              | 33               |
|                | HSPA+     | 1             | 21.62                      | 21.48 | 21.52 | 23.93              | 33               |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤33dBm

**WCDMA Band V**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|----------------|-----------|---------------|----------------------------|-------|-------|--------------------|------------------|
|                |           |               | Low                        | Mid   | High  |                    |                  |
| WCDMA (Band 5) | RMC12.2k  |               | 22.42                      | 22.84 | 22.18 | 20.39              | 38.5             |
|                | HSDPA     | 1             | 22.81                      | 22.08 | 22.52 | 20.39              | 38.5             |
|                |           | 2             | 22.75                      | 21.95 | 22.48 | 20.30              | 38.5             |
|                |           | 3             | 22.72                      | 21.91 | 22.41 | 20.27              | 38.5             |
|                |           | 4             | 22.70                      | 21.82 | 22.32 | 20.25              | 38.5             |
|                | HSUPA     | 1             | 22.58                      | 21.71 | 22.28 | 20.13              | 38.5             |
|                |           | 2             | 22.49                      | 21.69 | 22.21 | 20.04              | 38.5             |
|                |           | 3             | 22.41                      | 21.62 | 22.16 | 19.96              | 38.5             |
|                |           | 4             | 22.38                      | 21.58 | 22.08 | 19.93              | 38.5             |
|                |           | 5             | 22.25                      | 21.56 | 22.01 | 19.80              | 38.5             |
|                | HSPA+     | 1             | 21.94                      | 21.33 | 21.94 | 19.49              | 38.5             |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)  
Antenna Gain(dBd) = Antenna Gain(dBi)-2.15  
Limit: ERP≤38.5dBm

**WCDMA Band IV**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|----------------|-----------|---------------|----------------------------|-------|-------|--------------------|------------------|
|                |           |               | Low                        | Mid   | High  |                    |                  |
| WCDMA (Band 4) | RMC12.2k  |               | 22.09                      | 22.55 | 22.69 | 24.57              | 30               |
|                | HSDPA     | 1             | 22.48                      | 22.62 | 22.42 | 24.50              | 30               |
|                |           | 2             | 22.43                      | 22.54 | 22.35 | 24.42              | 30               |
|                |           | 3             | 22.37                      | 22.46 | 22.29 | 24.34              | 30               |
|                |           | 4             | 22.31                      | 22.24 | 22.2  | 24.19              | 30               |
|                | HSUPA     | 1             | 22.26                      | 22.13 | 22.15 | 24.14              | 30               |
|                |           | 2             | 22.21                      | 22.04 | 22.06 | 24.09              | 30               |
|                |           | 3             | 22.15                      | 21.96 | 21.94 | 24.03              | 30               |
|                |           | 4             | 22.09                      | 21.88 | 21.88 | 23.97              | 30               |
|                |           | 5             | 21.92                      | 21.75 | 21.79 | 23.80              | 30               |
|                | HSPA+     | 1             | 21.84                      | 21.64 | 21.64 | 23.72              | 30               |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP≤30dBm



## LTE Band 2

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 1.4                | QPSK       | 1#0                   | 22.23                                   | 22.18 | 22.38 | 24.69                    | 33                  |
|                    |            | 1#3                   | 22.24                                   | 22.18 | 22.11 | 24.55                    | 33                  |
|                    |            | 1#5                   | 22.08                                   | 22.03 | 22.31 | 24.62                    | 33                  |
|                    |            | 3#0                   | 22.29                                   | 22.20 | 22.21 | 24.6                     | 33                  |
|                    |            | 3#3                   | 22.27                                   | 22.17 | 22.02 | 24.58                    | 33                  |
|                    |            | 6#0                   | 21.26                                   | 21.95 | 21.91 | 24.26                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.61                                   | 21.17 | 21.83 | 24.14                    | 33                  |
|                    |            | 1#3                   | 21.93                                   | 21.66 | 21.13 | 24.24                    | 33                  |
|                    |            | 1#5                   | 21.46                                   | 21.07 | 21.28 | 23.77                    | 33                  |
|                    |            | 3#0                   | 20.77                                   | 20.04 | 20.62 | 23.08                    | 33                  |
|                    |            | 3#3                   | 20.63                                   | 20.66 | 20.12 | 22.97                    | 33                  |
|                    |            | 6#0                   | 20.13                                   | 20.58 | 20.66 | 22.97                    | 33                  |
| 3                  | QPSK       | 1#0                   | 22.18                                   | 22.28 | 22.22 | 24.59                    | 33                  |
|                    |            | 1#8                   | 22.12                                   | 22.38 | 22.14 | 24.69                    | 33                  |
|                    |            | 1#14                  | 22.31                                   | 22.40 | 22.10 | 24.71                    | 33                  |
|                    |            | 6#0                   | 21.95                                   | 21.05 | 21.27 | 24.26                    | 33                  |
|                    |            | 6#9                   | 21.22                                   | 21.21 | 21.05 | 23.53                    | 33                  |
|                    |            | 15#0                  | 21.18                                   | 21.55 | 21.24 | 23.86                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.53                                   | 21.12 | 21.80 | 24.11                    | 33                  |
|                    |            | 1#8                   | 21.19                                   | 21.31 | 21.37 | 23.68                    | 33                  |
|                    |            | 1#14                  | 21.59                                   | 21.53 | 21.40 | 23.9                     | 33                  |
|                    |            | 6#0                   | 20.89                                   | 20.22 | 20.33 | 23.2                     | 33                  |
|                    |            | 6#9                   | 20.02                                   | 20.58 | 20.20 | 22.89                    | 33                  |
|                    |            | 15#0                  | 20.12                                   | 20.92 | 20.38 | 23.23                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.33                                   | 22.32 | 22.29 | 24.64                    | 33                  |
|                    |            | 1#13                  | 22.30                                   | 22.27 | 22.21 | 24.61                    | 33                  |
|                    |            | 1#24                  | 22.49                                   | 22.05 | 22.47 | 24.80                    | 33                  |
|                    |            | 15#0                  | 21.48                                   | 21.83 | 21.84 | 24.15                    | 33                  |
|                    |            | 15#10                 | 21.06                                   | 21.80 | 21.77 | 24.11                    | 33                  |
|                    |            | 25#0                  | 21.43                                   | 21.19 | 21.05 | 23.74                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.31                                   | 21.10 | 21.89 | 24.2                     | 33                  |
|                    |            | 1#13                  | 21.55                                   | 21.14 | 21.97 | 24.28                    | 33                  |
|                    |            | 1#24                  | 21.45                                   | 21.01 | 21.08 | 23.76                    | 33                  |
|                    |            | 15#0                  | 20.88                                   | 20.57 | 20.66 | 23.19                    | 33                  |
|                    |            | 15#10                 | 20.74                                   | 20.57 | 20.99 | 23.3                     | 33                  |
|                    |            | 25#0                  | 20.25                                   | 20.69 | 20.66 | 23.00                    | 33                  |
| 10                 | QPSK       | 1#0                   | 22.29                                   | 22.44 | 22.24 | 24.75                    | 33                  |
|                    |            | 1#25                  | 22.35                                   | 22.14 | 22.22 | 24.66                    | 33                  |
|                    |            | 1#49                  | 22.21                                   | 22.16 | 22.12 | 24.52                    | 33                  |
|                    |            | 25#0                  | 21.29                                   | 21.02 | 21.20 | 23.60                    | 33                  |
|                    |            | 25#25                 | 21.27                                   | 21.09 | 21.80 | 24.11                    | 33                  |
|                    |            | 50#0                  | 21.82                                   | 21.90 | 21.49 | 24.21                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.41                                   | 21.17 | 21.68 | 23.99                    | 33                  |
|                    |            | 1#25                  | 21.18                                   | 21.27 | 21.51 | 23.82                    | 33                  |
|                    |            | 1#49                  | 21.51                                   | 21.15 | 21.63 | 23.94                    | 33                  |
|                    |            | 25#0                  | 20.51                                   | 20.13 | 20.36 | 22.82                    | 33                  |
|                    |            | 25#25                 | 20.29                                   | 20.73 | 20.00 | 23.04                    | 33                  |
|                    |            | 50#0                  | 20.48                                   | 20.61 | 20.00 | 22.92                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.28                                   | 22.02 | 22.00 | 24.59                    | 33                  |
|                    |            | 1#38                  | 22.27                                   | 22.22 | 22.10 | 24.58                    | 33                  |
|                    |            | 1#74                  | 22.08                                   | 22.19 | 22.16 | 24.5                     | 33                  |
|                    |            | 36#0                  | 21.87                                   | 21.26 | 21.07 | 24.18                    | 33                  |
|                    |            | 36#39                 | 21.59                                   | 21.78 | 21.84 | 24.15                    | 33                  |
|                    |            | 75#0                  | 21.16                                   | 21.54 | 21.02 | 23.85                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.13                                   | 21.38 | 21.90 | 24.21                    | 33                  |
|                    |            | 1#38                  | 21.78                                   | 21.29 | 21.58 | 24.09                    | 33                  |
|                    |            | 1#74                  | 21.61                                   | 21.16 | 21.78 | 24.09                    | 33                  |
|                    |            | 36#0                  | 20.59                                   | 20.52 | 20.79 | 23.1                     | 33                  |
|                    |            | 36#39                 | 20.58                                   | 20.23 | 20.77 | 23.08                    | 33                  |
|                    |            | 75#0                  | 20.89                                   | 20.71 | 20.47 | 23.2                     | 33                  |
| 20                 | QPSK       | 1#0                   | 22.32                                   | 22.11 | 22.28 | 24.63                    | 33                  |
|                    |            | 1#50                  | 22.32                                   | 22.21 | 22.12 | 24.63                    | 33                  |
|                    |            | 1#99                  | 22.23                                   | 22.29 | 22.12 | 24.6                     | 33                  |
|                    |            | 50#0                  | 21.17                                   | 21.02 | 21.74 | 24.05                    | 33                  |
|                    |            | 50#50                 | 21.24                                   | 21.29 | 21.34 | 23.65                    | 33                  |
|                    |            | 100#0                 | 21.84                                   | 21.57 | 21.01 | 24.15                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.79                                   | 21.98 | 21.61 | 24.29                    | 33                  |
|                    |            | 1#50                  | 21.80                                   | 21.65 | 21.95 | 24.26                    | 33                  |
|                    |            | 1#99                  | 21.92                                   | 21.24 | 21.14 | 24.23                    | 33                  |
|                    |            | 50#0                  | 20.85                                   | 20.94 | 20.53 | 23.25                    | 33                  |
|                    |            | 50#50                 | 20.20                                   | 20.07 | 20.28 | 22.59                    | 33                  |
|                    |            | 100#0                 | 20.93                                   | 20.95 | 20.68 | 23.26                    | 33                  |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤33dBm

**LTE Band 4**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 1.4                | QPSK       | 1#0                   | 22.01                                   | 22.29 | 22.49 | 24.37                    | 30                  |
|                    |            | 1#3                   | 22.03                                   | 22.43 | 22.50 | 24.38                    | 30                  |
|                    |            | 1#5                   | 22.35                                   | 22.21 | 22.30 | 24.23                    | 30                  |
|                    |            | 3#0                   | 21.33                                   | 21.10 | 21.40 | 23.28                    | 30                  |
|                    |            | 3#3                   | 21.61                                   | 21.99 | 21.75 | 23.87                    | 30                  |
|                    |            | 6#0                   | 21.96                                   | 21.80 | 21.46 | 23.84                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.69                                   | 21.96 | 21.10 | 23.84                    | 30                  |
|                    |            | 1#3                   | 21.91                                   | 21.63 | 21.22 | 23.79                    | 30                  |
|                    |            | 1#5                   | 21.17                                   | 21.92 | 21.07 | 23.80                    | 30                  |
|                    |            | 3#0                   | 20.37                                   | 20.40 | 20.01 | 22.28                    | 30                  |
|                    |            | 3#3                   | 20.71                                   | 20.17 | 20.33 | 22.59                    | 30                  |
|                    |            | 6#0                   | 20.78                                   | 20.36 | 20.39 | 22.66                    | 30                  |
| 3                  | QPSK       | 1#0                   | 22.32                                   | 22.13 | 22.10 | 24.2                     | 30                  |
|                    |            | 1#8                   | 22.48                                   | 22.25 | 22.10 | 24.36                    | 30                  |
|                    |            | 1#14                  | 22.11                                   | 22.47 | 22.32 | 24.35                    | 30                  |
|                    |            | 6#0                   | 21.52                                   | 21.07 | 21.28 | 23.40                    | 30                  |
|                    |            | 6#9                   | 21.57                                   | 21.19 | 21.84 | 23.72                    | 30                  |
|                    |            | 15#0                  | 21.57                                   | 21.15 | 21.37 | 23.45                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.01                                   | 21.09 | 21.56 | 23.44                    | 30                  |
|                    |            | 1#8                   | 21.77                                   | 21.65 | 21.41 | 23.65                    | 30                  |
|                    |            | 1#14                  | 21.57                                   | 21.37 | 21.73 | 23.61                    | 30                  |
|                    |            | 6#0                   | 20.80                                   | 20.28 | 20.53 | 22.68                    | 30                  |
|                    |            | 6#9                   | 20.59                                   | 20.30 | 20.17 | 22.47                    | 30                  |
|                    |            | 15#0                  | 20.57                                   | 20.89 | 20.45 | 22.77                    | 30                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.14                                   | 22.33 | 22.13 | 24.21                    | 30                  |
|                    |            | 1#13                  | 22.49                                   | 22.46 | 22.43 | 24.37                    | 30                  |
|                    |            | 1#24                  | 22.36                                   | 22.49 | 22.14 | 24.37                    | 30                  |
|                    |            | 15#0                  | 21.72                                   | 21.43 | 21.47 | 23.60                    | 30                  |
|                    |            | 15#10                 | 21.36                                   | 21.75 | 21.86 | 23.74                    | 30                  |
|                    |            | 25#0                  | 21.40                                   | 21.72 | 21.42 | 23.60                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.42                                   | 21.60 | 21.09 | 23.48                    | 30                  |
|                    |            | 1#13                  | 21.45                                   | 21.37 | 21.61 | 23.49                    | 30                  |
|                    |            | 1#24                  | 21.24                                   | 21.37 | 21.44 | 23.32                    | 30                  |
|                    |            | 15#0                  | 20.76                                   | 20.02 | 20.10 | 22.64                    | 30                  |
|                    |            | 15#10                 | 20.60                                   | 20.98 | 20.70 | 22.86                    | 30                  |
|                    |            | 25#0                  | 20.60                                   | 20.69 | 20.22 | 22.57                    | 30                  |
| 10                 | QPSK       | 1#0                   | 22.39                                   | 22.39 | 22.26 | 24.27                    | 30                  |
|                    |            | 1#25                  | 22.49                                   | 22.14 | 22.01 | 24.37                    | 30                  |
|                    |            | 1#49                  | 22.02                                   | 22.04 | 22.31 | 24.19                    | 30                  |
|                    |            | 25#0                  | 21.31                                   | 21.59 | 21.50 | 23.47                    | 30                  |
|                    |            | 25#25                 | 21.85                                   | 21.74 | 21.25 | 23.73                    | 30                  |
|                    |            | 50#0                  | 21.95                                   | 21.59 | 21.34 | 23.83                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.03                                   | 21.38 | 21.91 | 23.79                    | 30                  |
|                    |            | 1#25                  | 21.22                                   | 21.23 | 22.00 | 23.88                    | 30                  |
|                    |            | 1#49                  | 21.85                                   | 21.51 | 21.58 | 23.73                    | 30                  |
|                    |            | 25#0                  | 20.12                                   | 20.13 | 20.67 | 22.55                    | 30                  |
|                    |            | 25#25                 | 20.86                                   | 20.21 | 20.02 | 22.74                    | 30                  |
|                    |            | 50#0                  | 20.94                                   | 20.12 | 20.77 | 22.82                    | 30                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.24                                   | 22.05 | 22.11 | 24.12                    | 30                  |
|                    |            | 1#38                  | 22.22                                   | 22.05 | 22.29 | 24.17                    | 30                  |
|                    |            | 1#74                  | 22.20                                   | 22.46 | 22.33 | 24.34                    | 30                  |
|                    |            | 36#0                  | 21.52                                   | 21.49 | 21.32 | 23.4                     | 30                  |
|                    |            | 36#39                 | 21.03                                   | 21.36 | 21.51 | 23.39                    | 30                  |
|                    |            | 75#0                  | 21.31                                   | 21.30 | 21.81 | 23.69                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.67                                   | 21.59 | 21.30 | 23.55                    | 30                  |
|                    |            | 1#38                  | 21.06                                   | 21.16 | 21.91 | 23.79                    | 30                  |
|                    |            | 1#74                  | 21.99                                   | 21.26 | 21.61 | 23.87                    | 30                  |
|                    |            | 36#0                  | 20.25                                   | 20.54 | 20.61 | 22.49                    | 30                  |
|                    |            | 36#39                 | 20.80                                   | 20.52 | 20.52 | 22.68                    | 30                  |
|                    |            | 75#0                  | 20.08                                   | 20.83 | 20.28 | 22.71                    | 30                  |
| 20                 | QPSK       | 1#0                   | 22.07                                   | 22.42 | 22.31 | 24.3                     | 30                  |
|                    |            | 1#50                  | 22.38                                   | 22.46 | 22.43 | 24.34                    | 30                  |
|                    |            | 1#99                  | 22.35                                   | 22.05 | 22.45 | 24.33                    | 30                  |
|                    |            | 50#0                  | 21.53                                   | 21.86 | 21.14 | 23.74                    | 30                  |
|                    |            | 50#50                 | 21.08                                   | 21.12 | 21.33 | 23.21                    | 30                  |
|                    |            | 100#0                 | 21.01                                   | 21.49 | 21.60 | 23.48                    | 30                  |
|                    | 16QAM      | 1#0                   | 21.38                                   | 21.67 | 21.34 | 23.55                    | 30                  |
|                    |            | 1#50                  | 21.34                                   | 21.29 | 21.67 | 23.55                    | 30                  |
|                    |            | 1#99                  | 21.60                                   | 21.67 | 21.26 | 23.55                    | 30                  |
|                    |            | 50#0                  | 20.14                                   | 20.64 | 20.11 | 22.52                    | 30                  |
|                    |            | 50#50                 | 20.59                                   | 20.72 | 20.91 | 22.79                    | 30                  |
|                    |            | 100#0                 | 20.80                                   | 20.09 | 20.71 | 24.12                    | 30                  |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤30dBm

**LTE Band 5**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 1.4                | QPSK       | 1#0                   | 22.36                                   | 22.48 | 22.20 | 20.03                   | 38.45              |
|                    |            | 1#3                   | 22.41                                   | 22.28 | 22.05 | 19.96                   | 38.45              |
|                    |            | 1#5                   | 22.47                                   | 22.06 | 22.46 | 20.02                   | 38.45              |
|                    |            | 3#0                   | 21.03                                   | 21.08 | 21.74 | 19.29                   | 38.45              |
|                    |            | 3#3                   | 21.76                                   | 21.63 | 21.36 | 19.31                   | 38.45              |
|                    |            | 6#0                   | 21.50                                   | 21.17 | 21.21 | 19.05                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.91                                   | 21.15 | 21.45 | 19.46                   | 38.45              |
|                    |            | 1#3                   | 21.63                                   | 21.23 | 21.94 | 19.49                   | 38.45              |
|                    |            | 1#5                   | 21.18                                   | 21.19 | 21.70 | 19.25                   | 38.45              |
|                    |            | 3#0                   | 20.58                                   | 20.10 | 20.36 | 18.13                   | 38.45              |
|                    |            | 3#3                   | 20.43                                   | 20.64 | 20.88 | 18.43                   | 38.45              |
|                    |            | 6#0                   | 20.32                                   | 20.18 | 20.58 | 18.13                   | 38.45              |
| 3                  | QPSK       | 1#0                   | 22.07                                   | 22.08 | 22.14 | 19.69                   | 38.45              |
|                    |            | 1#8                   | 22.23                                   | 22.08 | 22.05 | 19.78                   | 38.45              |
|                    |            | 1#14                  | 22.33                                   | 22.29 | 22.10 | 19.88                   | 38.45              |
|                    |            | 6#0                   | 21.41                                   | 21.97 | 21.02 | 19.52                   | 38.45              |
|                    |            | 6#9                   | 21.99                                   | 21.27 | 21.20 | 19.54                   | 38.45              |
|                    |            | 15#0                  | 21.48                                   | 21.57 | 21.36 | 19.12                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.83                                   | 21.27 | 21.70 | 19.38                   | 38.45              |
|                    |            | 1#8                   | 21.62                                   | 21.08 | 21.98 | 19.53                   | 38.45              |
|                    |            | 1#14                  | 21.45                                   | 21.63 | 21.74 | 19.29                   | 38.45              |
|                    |            | 6#0                   | 20.94                                   | 20.31 | 20.43 | 18.49                   | 38.45              |
|                    |            | 6#9                   | 20.17                                   | 20.56 | 20.95 | 18.5                    | 38.45              |
|                    |            | 15#0                  | 20.37                                   | 20.38 | 20.59 | 18.14                   | 38.45              |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 5                  | QPSK       | 1#0                   | 22.07                                   | 22.22 | 22.06 | 19.77                   | 38.45              |
|                    |            | 1#13                  | 22.47                                   | 22.33 | 22.13 | 20.02                   | 38.45              |
|                    |            | 1#24                  | 22.39                                   | 22.34 | 22.30 | 19.94                   | 38.45              |
|                    |            | 15#0                  | 21.60                                   | 21.18 | 21.14 | 19.15                   | 38.45              |
|                    |            | 15#10                 | 21.46                                   | 21.83 | 21.05 | 19.38                   | 38.45              |
|                    |            | 25#0                  | 21.63                                   | 21.92 | 21.87 | 19.47                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.45                                   | 21.67 | 21.06 | 19.22                   | 38.45              |
|                    |            | 1#13                  | 21.27                                   | 21.70 | 21.24 | 19.25                   | 38.45              |
|                    |            | 1#24                  | 21.32                                   | 21.58 | 21.29 | 19.13                   | 38.45              |
|                    |            | 15#0                  | 20.30                                   | 20.52 | 20.56 | 18.11                   | 38.45              |
|                    |            | 15#10                 | 20.93                                   | 20.97 | 20.49 | 18.52                   | 38.45              |
|                    |            | 25#0                  | 20.04                                   | 20.36 | 20.56 | 18.11                   | 38.45              |
| 10                 | QPSK       | 1#0                   | 22.33                                   | 22.50 | 22.19 | 20.05                   | 38.45              |
|                    |            | 1#25                  | 22.48                                   | 22.03 | 22.37 | 20.03                   | 38.45              |
|                    |            | 1#49                  | 22.22                                   | 22.01 | 22.15 | 19.77                   | 38.45              |
|                    |            | 25#0                  | 21.34                                   | 21.09 | 21.48 | 19.03                   | 38.45              |
|                    |            | 25#25                 | 21.04                                   | 21.51 | 21.94 | 19.49                   | 38.45              |
|                    |            | 50#0                  | 21.46                                   | 21.33 | 21.81 | 19.36                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.43                                   | 21.66 | 21.65 | 19.21                   | 38.45              |
|                    |            | 1#25                  | 21.83                                   | 21.08 | 21.24 | 19.38                   | 38.45              |
|                    |            | 1#49                  | 21.23                                   | 21.94 | 21.18 | 19.49                   | 38.45              |
|                    |            | 25#0                  | 20.19                                   | 20.98 | 20.91 | 18.53                   | 38.45              |
|                    |            | 25#25                 | 20.09                                   | 20.66 | 20.61 | 18.21                   | 38.45              |
|                    |            | 50#0                  | 20.40                                   | 20.66 | 20.47 | 18.21                   | 38.45              |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP≤38.45dBm



**LTE Band 7**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | ERIP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.02                                   | 22.24 | 22.13 | 23.95                    | 33                  |
|                    |            | 1#13                  | 22.49                                   | 22.17 | 22.17 | 24.2                     | 33                  |
|                    |            | 1#24                  | 22.17                                   | 22.05 | 22.23 | 23.94                    | 33                  |
|                    |            | 15#0                  | 21.12                                   | 21.35 | 21.86 | 23.57                    | 33                  |
|                    |            | 15#10                 | 21.11                                   | 21.27 | 21.84 | 23.55                    | 33                  |
|                    |            | 25#0                  | 21.38                                   | 21.69 | 21.23 | 23.40                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.59                                   | 21.38 | 21.75 | 23.46                    | 33                  |
|                    |            | 1#13                  | 21.56                                   | 21.23 | 21.74 | 23.45                    | 33                  |
|                    |            | 1#24                  | 21.50                                   | 21.72 | 21.28 | 23.43                    | 33                  |
|                    |            | 15#0                  | 20.82                                   | 20.61 | 20.38 | 22.53                    | 33                  |
|                    |            | 15#10                 | 20.21                                   | 20.17 | 20.47 | 22.18                    | 33                  |
|                    |            | 25#0                  | 20.81                                   | 20.14 | 20.62 | 22.52                    | 33                  |
| 10                 | QPSK       | 1#0                   | 22.41                                   | 22.40 | 22.50 | 24.21                    | 33                  |
|                    |            | 1#25                  | 22.23                                   | 22.41 | 22.24 | 24.12                    | 33                  |
|                    |            | 1#49                  | 22.05                                   | 22.46 | 22.47 | 24.18                    | 33                  |
|                    |            | 25#0                  | 21.83                                   | 21.98 | 21.01 | 23.69                    | 33                  |
|                    |            | 25#25                 | 22.00                                   | 21.53 | 21.17 | 23.71                    | 33                  |
|                    |            | 50#0                  | 21.23                                   | 21.68 | 21.70 | 23.41                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.29                                   | 21.27 | 21.25 | 23.00                    | 33                  |
|                    |            | 1#25                  | 21.53                                   | 21.01 | 21.20 | 23.24                    | 33                  |
|                    |            | 1#49                  | 21.04                                   | 21.02 | 21.82 | 23.53                    | 33                  |
|                    |            | 25#0                  | 20.20                                   | 20.51 | 21.00 | 22.71                    | 33                  |
|                    |            | 25#25                 | 20.67                                   | 20.84 | 20.50 | 22.55                    | 33                  |
|                    |            | 50#0                  | 20.20                                   | 20.62 | 20.25 | 22.33                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.18                                   | 22.29 | 22.13 | 24.00                    | 33                  |
|                    |            | 1#38                  | 22.14                                   | 22.17 | 22.46 | 24.17                    | 33                  |
|                    |            | 1#74                  | 22.35                                   | 22.34 | 22.21 | 24.06                    | 33                  |
|                    |            | 36#0                  | 21.67                                   | 21.99 | 21.36 | 23.7                     | 33                  |
|                    |            | 36#39                 | 21.45                                   | 21.51 | 21.52 | 23.23                    | 33                  |
|                    |            | 75#0                  | 21.74                                   | 21.59 | 21.11 | 23.45                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.17                                   | 21.49 | 21.88 | 23.59                    | 33                  |
|                    |            | 1#38                  | 21.79                                   | 21.37 | 21.05 | 23.50                    | 33                  |
|                    |            | 1#74                  | 21.35                                   | 21.10 | 21.03 | 23.06                    | 33                  |
|                    |            | 36#0                  | 20.45                                   | 20.84 | 20.17 | 22.55                    | 33                  |
|                    |            | 36#39                 | 20.78                                   | 20.12 | 20.72 | 22.49                    | 33                  |
|                    |            | 75#0                  | 20.17                                   | 20.55 | 20.49 | 22.26                    | 33                  |
| 20                 | QPSK       | 1#0                   | 22.44                                   | 22.38 | 22.35 | 24.15                    | 33                  |
|                    |            | 1#50                  | 22.10                                   | 22.09 | 22.27 | 23.98                    | 33                  |
|                    |            | 1#99                  | 22.43                                   | 22.28 | 22.16 | 24.14                    | 33                  |
|                    |            | 50#0                  | 21.04                                   | 21.10 | 21.10 | 22.81                    | 33                  |
|                    |            | 50#50                 | 21.39                                   | 21.53 | 21.15 | 23.24                    | 33                  |
|                    |            | 100#0                 | 21.97                                   | 21.17 | 21.12 | 23.68                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.31                                   | 21.61 | 21.17 | 23.32                    | 33                  |
|                    |            | 1#50                  | 21.92                                   | 21.62 | 21.86 | 23.63                    | 33                  |
|                    |            | 1#99                  | 21.64                                   | 21.01 | 21.68 | 23.39                    | 33                  |
|                    |            | 50#0                  | 20.72                                   | 20.66 | 20.32 | 22.43                    | 33                  |
|                    |            | 50#50                 | 20.06                                   | 20.60 | 20.09 | 22.31                    | 33                  |
|                    |            | 100#0                 | 20.56                                   | 20.24 | 20.55 | 22.27                    | 33                  |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤33dBm

**LTE Band 12**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 1.4                | QPSK       | 1#0                   | 22.12                                   | 22.28 | 22.40 | 18.23                   | 34.77              |
|                    |            | 1#3                   | 22.29                                   | 22.48 | 22.50 | 18.33                   | 34.77              |
|                    |            | 1#5                   | 22.40                                   | 22.39 | 22.46 | 18.29                   | 34.77              |
|                    |            | 3#0                   | 21.89                                   | 21.84 | 21.59 | 17.72                   | 34.77              |
|                    |            | 3#3                   | 21.30                                   | 21.82 | 21.37 | 17.65                   | 34.77              |
|                    |            | 6#0                   | 21.83                                   | 21.37 | 21.97 | 17.8                    | 34.77              |
|                    | 16QAM      | 1#0                   | 21.14                                   | 21.64 | 21.78 | 17.61                   | 34.77              |
|                    |            | 1#3                   | 21.59                                   | 21.32 | 21.41 | 17.42                   | 34.77              |
|                    |            | 1#5                   | 21.59                                   | 21.81 | 21.82 | 17.65                   | 34.77              |
|                    |            | 3#0                   | 20.77                                   | 20.06 | 20.98 | 16.81                   | 34.77              |
|                    |            | 3#3                   | 20.91                                   | 20.95 | 20.12 | 16.78                   | 34.77              |
|                    |            | 6#0                   | 20.54                                   | 20.04 | 20.84 | 16.67                   | 34.77              |
| 3                  | QPSK       | 1#0                   | 22.42                                   | 22.36 | 22.27 | 18.25                   | 34.77              |
|                    |            | 1#8                   | 22.30                                   | 22.41 | 22.33 | 18.24                   | 34.77              |
|                    |            | 1#14                  | 22.13                                   | 22.27 | 22.22 | 18.1                    | 34.77              |
|                    |            | 6#0                   | 21.88                                   | 21.19 | 21.62 | 17.71                   | 34.77              |
|                    |            | 6#9                   | 21.46                                   | 21.79 | 21.12 | 17.62                   | 34.77              |
|                    |            | 15#0                  | 21.67                                   | 21.55 | 21.69 | 17.52                   | 34.77              |
|                    | 16QAM      | 1#0                   | 21.51                                   | 21.37 | 21.07 | 17.34                   | 34.77              |
|                    |            | 1#8                   | 21.93                                   | 21.58 | 21.58 | 17.76                   | 34.77              |
|                    |            | 1#14                  | 21.33                                   | 21.36 | 21.40 | 17.23                   | 34.77              |
|                    |            | 6#0                   | 20.38                                   | 20.17 | 20.27 | 16.21                   | 34.77              |
|                    |            | 6#9                   | 20.45                                   | 20.86 | 20.74 | 16.69                   | 34.77              |
|                    |            | 15#0                  | 20.83                                   | 20.90 | 20.70 | 16.73                   | 34.77              |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 5                  | QPSK       | 1#0                   | 22.49                                   | 22.40 | 22.09 | 18.32                   | 34.77              |
|                    |            | 1#13                  | 22.09                                   | 22.04 | 22.00 | 17.92                   | 34.77              |
|                    |            | 1#24                  | 22.49                                   | 22.24 | 22.21 | 18.32                   | 34.77              |
|                    |            | 15#0                  | 21.43                                   | 21.77 | 21.75 | 17.6                    | 34.77              |
|                    |            | 15#10                 | 21.78                                   | 21.08 | 21.25 | 17.61                   | 34.77              |
|                    |            | 25#0                  | 21.01                                   | 21.70 | 21.70 | 17.53                   | 34.77              |
|                    | 16QAM      | 1#0                   | 21.67                                   | 21.48 | 21.23 | 17.5                    | 34.77              |
|                    |            | 1#13                  | 21.02                                   | 21.30 | 21.70 | 17.53                   | 34.77              |
|                    |            | 1#24                  | 21.74                                   | 21.43 | 21.14 | 17.57                   | 34.77              |
|                    |            | 15#0                  | 20.38                                   | 20.55 | 20.34 | 16.38                   | 34.77              |
|                    |            | 15#10                 | 20.50                                   | 20.37 | 20.02 | 16.33                   | 34.77              |
|                    |            | 25#0                  | 20.10                                   | 20.06 | 20.32 | 16.15                   | 34.77              |
| 10                 | QPSK       | 1#0                   | 22.29                                   | 22.11 | 22.14 | 18.12                   | 34.77              |
|                    |            | 1#25                  | 22.45                                   | 22.47 | 22.19 | 18.3                    | 34.77              |
|                    |            | 1#49                  | 22.06                                   | 22.44 | 22.39 | 18.27                   | 34.77              |
|                    |            | 25#0                  | 21.68                                   | 21.23 | 21.08 | 17.51                   | 34.77              |
|                    |            | 25#25                 | 21.73                                   | 21.07 | 21.36 | 17.56                   | 34.77              |
|                    |            | 50#0                  | 21.58                                   | 21.95 | 21.12 | 17.78                   | 34.77              |
|                    | 16QAM      | 1#0                   | 21.79                                   | 21.14 | 21.31 | 17.62                   | 34.77              |
|                    |            | 1#25                  | 21.26                                   | 21.73 | 21.74 | 17.57                   | 34.77              |
|                    |            | 1#49                  | 21.97                                   | 21.22 | 21.29 | 17.8                    | 34.77              |
|                    |            | 25#0                  | 20.59                                   | 20.62 | 20.15 | 16.45                   | 34.77              |
|                    |            | 25#25                 | 20.97                                   | 20.19 | 20.15 | 16.8                    | 34.77              |
|                    |            | 50#0                  | 20.65                                   | 20.71 | 20.27 | 16.54                   | 34.77              |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP ≤ 34.77dBm

## LTE Band 17

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 5                  | QPSK       | 1#0                   | 22.05                                   | 22.38 | 22.47 | 18.30                   | 34.77              |
|                    |            | 1#13                  | 22.07                                   | 22.05 | 22.45 | 18.28                   | 34.77              |
|                    |            | 1#24                  | 22.45                                   | 22.22 | 22.07 | 18.28                   | 34.77              |
|                    |            | 15#0                  | 21.85                                   | 21.07 | 21.07 | 17.68                   | 34.77              |
|                    |            | 15#10                 | 21.47                                   | 21.61 | 21.95 | 17.78                   | 34.77              |
|                    |            | 25#0                  | 21.95                                   | 21.08 | 21.19 | 17.78                   | 34.77              |
|                    | 16QAM      | 1#0                   | 21.34                                   | 21.63 | 21.10 | 17.46                   | 34.77              |
|                    |            | 1#13                  | 21.25                                   | 21.60 | 21.61 | 17.44                   | 34.77              |
|                    |            | 1#24                  | 21.42                                   | 21.27 | 21.46 | 17.29                   | 34.77              |
|                    |            | 15#0                  | 20.57                                   | 20.11 | 20.14 | 16.40                   | 34.77              |
|                    |            | 15#10                 | 20.43                                   | 20.64 | 20.98 | 16.81                   | 34.77              |
|                    |            | 25#0                  | 21.00                                   | 20.09 | 20.06 | 16.83                   | 34.77              |
| 10                 | QPSK       | 1#0                   | 22.03                                   | 22.44 | 22.31 | 18.27                   | 34.77              |
|                    |            | 1#25                  | 22.40                                   | 22.14 | 22.09 | 18.23                   | 34.77              |
|                    |            | 1#49                  | 22.03                                   | 22.48 | 22.42 | 18.31                   | 34.77              |
|                    |            | 25#0                  | 21.20                                   | 21.43 | 21.25 | 17.26                   | 34.77              |
|                    |            | 25#25                 | 21.86                                   | 21.77 | 21.60 | 17.69                   | 34.77              |
|                    |            | 50#0                  | 21.30                                   | 21.86 | 21.09 | 17.69                   | 34.77              |
|                    | 16QAM      | 1#0                   | 21.45                                   | 21.48 | 21.71 | 17.54                   | 34.77              |
|                    |            | 1#25                  | 21.13                                   | 21.46 | 21.51 | 17.34                   | 34.77              |
|                    |            | 1#49                  | 21.58                                   | 21.43 | 21.89 | 17.72                   | 34.77              |
|                    |            | 25#0                  | 20.39                                   | 20.11 | 20.74 | 16.57                   | 34.77              |
|                    |            | 25#25                 | 20.37                                   | 20.63 | 20.90 | 16.73                   | 34.77              |
|                    |            | 50#0                  | 20.43                                   | 20.02 | 20.19 | 16.26                   | 34.77              |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP ≤ 34.77dBm

## LTE Band 25

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 1.4                | QPSK       | 1#0                   | 22.27                                   | 22.19 | 22.31 | 24.62                    | 33                  |
|                    |            | 1#3                   | 22.09                                   | 22.38 | 22.49 | 24.8                     | 33                  |
|                    |            | 1#5                   | 22.07                                   | 22.39 | 22.05 | 24.7                     | 33                  |
|                    |            | 3#0                   | 21.69                                   | 21.12 | 21.40 | 24.00                    | 33                  |
|                    |            | 3#3                   | 21.06                                   | 21.72 | 21.54 | 24.03                    | 33                  |
|                    |            | 6#0                   | 21.46                                   | 21.97 | 21.29 | 24.28                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.08                                   | 21.67 | 21.79 | 24.10                    | 33                  |
|                    |            | 1#3                   | 21.10                                   | 21.51 | 21.98 | 24.29                    | 33                  |
|                    |            | 1#5                   | 21.25                                   | 21.55 | 21.20 | 23.86                    | 33                  |
|                    |            | 3#0                   | 20.91                                   | 20.85 | 20.70 | 23.22                    | 33                  |
|                    |            | 3#3                   | 20.27                                   | 20.30 | 20.09 | 22.61                    | 33                  |
|                    |            | 6#0                   | 20.89                                   | 20.01 | 20.45 | 23.20                    | 33                  |
| 3                  | QPSK       | 1#0                   | 22.27                                   | 22.37 | 22.31 | 24.68                    | 33                  |
|                    |            | 1#8                   | 22.12                                   | 22.13 | 22.14 | 24.45                    | 33                  |
|                    |            | 1#14                  | 22.14                                   | 22.41 | 22.21 | 24.72                    | 33                  |
|                    |            | 6#0                   | 21.38                                   | 21.15 | 21.71 | 24.02                    | 33                  |
|                    |            | 6#9                   | 21.39                                   | 21.63 | 21.76 | 24.07                    | 33                  |
|                    |            | 15#0                  | 21.96                                   | 21.15 | 21.10 | 24.27                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.04                                   | 21.95 | 21.90 | 24.26                    | 33                  |
|                    |            | 1#8                   | 21.42                                   | 21.11 | 21.28 | 23.73                    | 33                  |
|                    |            | 1#14                  | 21.15                                   | 21.23 | 21.42 | 23.73                    | 33                  |
|                    |            | 6#0                   | 20.09                                   | 20.22 | 20.35 | 22.66                    | 33                  |
|                    |            | 6#9                   | 20.34                                   | 20.18 | 20.60 | 22.91                    | 33                  |
|                    |            | 15#0                  | 20.48                                   | 20.19 | 20.33 | 22.79                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.06                                   | 22.45 | 22.21 | 24.76                    | 33                  |
|                    |            | 1#13                  | 22.36                                   | 22.03 | 22.50 | 24.81                    | 33                  |
|                    |            | 1#24                  | 22.14                                   | 22.02 | 22.28 | 24.59                    | 33                  |
|                    |            | 15#0                  | 21.08                                   | 21.47 | 21.74 | 24.05                    | 33                  |
|                    |            | 15#10                 | 21.87                                   | 21.45 | 21.04 | 24.18                    | 33                  |
|                    |            | 25#0                  | 21.70                                   | 21.88 | 21.29 | 24.19                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.97                                   | 21.95 | 21.58 | 24.28                    | 33                  |
|                    |            | 1#13                  | 21.85                                   | 21.92 | 21.39 | 24.23                    | 33                  |
|                    |            | 1#24                  | 21.60                                   | 21.91 | 21.64 | 24.22                    | 33                  |
|                    |            | 15#0                  | 20.28                                   | 20.55 | 20.32 | 22.86                    | 33                  |
|                    |            | 15#10                 | 20.06                                   | 20.74 | 20.64 | 23.05                    | 33                  |
|                    |            | 25#0                  | 20.03                                   | 20.72 | 20.10 | 23.03                    | 33                  |
| 10                 | QPSK       | 1#0                   | 22.43                                   | 22.11 | 22.41 | 24.74                    | 33                  |
|                    |            | 1#25                  | 22.47                                   | 22.38 | 22.23 | 24.78                    | 33                  |
|                    |            | 1#49                  | 22.02                                   | 22.37 | 22.13 | 24.68                    | 33                  |
|                    |            | 25#0                  | 21.70                                   | 21.45 | 21.36 | 24.01                    | 33                  |
|                    |            | 25#25                 | 21.22                                   | 21.40 | 21.99 | 24.30                    | 33                  |
|                    |            | 50#0                  | 21.60                                   | 21.82 | 21.62 | 24.13                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.95                                   | 21.52 | 21.95 | 24.26                    | 33                  |
|                    |            | 1#25                  | 21.30                                   | 21.23 | 21.18 | 23.61                    | 33                  |
|                    |            | 1#49                  | 21.73                                   | 21.98 | 21.86 | 24.29                    | 33                  |
|                    |            | 25#0                  | 20.05                                   | 20.15 | 20.40 | 22.71                    | 33                  |
|                    |            | 25#25                 | 20.68                                   | 20.85 | 20.33 | 23.16                    | 33                  |
|                    |            | 50#0                  | 20.79                                   | 20.77 | 20.19 | 23.10                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.06                                   | 22.18 | 22.33 | 24.64                    | 33                  |
|                    |            | 1#38                  | 22.26                                   | 22.06 | 22.29 | 24.60                    | 33                  |
|                    |            | 1#74                  | 22.45                                   | 22.39 | 22.07 | 24.76                    | 33                  |
|                    |            | 36#0                  | 21.96                                   | 21.51 | 21.98 | 24.29                    | 33                  |
|                    |            | 36#39                 | 21.99                                   | 21.31 | 21.15 | 24.30                    | 33                  |
|                    |            | 75#0                  | 21.22                                   | 21.37 | 21.88 | 24.19                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.90                                   | 21.94 | 21.51 | 24.25                    | 33                  |
|                    |            | 1#38                  | 21.77                                   | 21.56 | 21.66 | 24.08                    | 33                  |
|                    |            | 1#74                  | 21.22                                   | 21.66 | 21.33 | 23.97                    | 33                  |
|                    |            | 36#0                  | 20.10                                   | 21.00 | 20.33 | 23.31                    | 33                  |
|                    |            | 36#39                 | 20.46                                   | 20.41 | 20.66 | 22.97                    | 33                  |
|                    |            | 75#0                  | 20.82                                   | 20.20 | 20.08 | 23.13                    | 33                  |
| 20                 | QPSK       | 1#0                   | 22.05                                   | 22.01 | 22.09 | 24.40                    | 33                  |
|                    |            | 1#50                  | 22.04                                   | 22.48 | 22.40 | 24.79                    | 33                  |
|                    |            | 1#99                  | 22.41                                   | 22.18 | 22.42 | 24.73                    | 33                  |
|                    |            | 50#0                  | 21.74                                   | 21.27 | 21.27 | 24.05                    | 33                  |
|                    |            | 50#50                 | 21.43                                   | 21.47 | 21.75 | 24.06                    | 33                  |
|                    |            | 100#0                 | 21.61                                   | 21.28 | 21.57 | 23.92                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.20                                   | 21.37 | 21.28 | 23.68                    | 33                  |
|                    |            | 1#50                  | 21.24                                   | 21.07 | 21.69 | 24.00                    | 33                  |
|                    |            | 1#99                  | 21.55                                   | 21.30 | 21.77 | 24.08                    | 33                  |
|                    |            | 50#0                  | 20.71                                   | 20.95 | 20.78 | 23.26                    | 33                  |
|                    |            | 50#50                 | 20.08                                   | 20.56 | 20.72 | 23.03                    | 33                  |
|                    |            | 100#0                 | 20.89                                   | 20.60 | 20.34 | 23.20                    | 33                  |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Limit: EIRP≤33dBm



**LTE Band 26 (814-824MHz)**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | High  | Cross |                         |                    |
| 1.4                | QPSK       | 1#0                   | 22.15                                   | 22.40 | 22.37 | 19.95                   | 50                 |
|                    |            | 1#3                   | 22.12                                   | 22.26 | 22.02 | 19.81                   | 50                 |
|                    |            | 1#5                   | 22.31                                   | 22.18 | 22.27 | 19.86                   | 50                 |
|                    |            | 3#0                   | 21.59                                   | 21.04 | 21.81 | 19.36                   | 50                 |
|                    |            | 3#3                   | 21.42                                   | 21.07 | 21.56 | 19.11                   | 50                 |
|                    |            | 6#0                   | 21.65                                   | 21.31 | 21.60 | 19.2                    | 50                 |
|                    | 16QAM      | 1#0                   | 21.96                                   | 21.77 | 21.91 | 19.51                   | 50                 |
|                    |            | 1#3                   | 21.05                                   | 21.80 | 21.91 | 19.46                   | 50                 |
|                    |            | 1#5                   | 21.28                                   | 21.64 | 21.68 | 19.23                   | 50                 |
|                    |            | 3#0                   | 20.14                                   | 20.12 | 20.64 | 18.19                   | 50                 |
|                    |            | 3#3                   | 20.43                                   | 20.76 | 20.45 | 18.31                   | 50                 |
|                    |            | 6#0                   | 20.19                                   | 20.84 | 20.45 | 18.39                   | 50                 |
| 3                  | QPSK       | 1#0                   | 22.40                                   | 22.46 | 22.20 | 20.01                   | 50                 |
|                    |            | 1#8                   | 22.26                                   | 22.42 | 22.02 | 19.97                   | 50                 |
|                    |            | 1#14                  | 22.28                                   | 22.12 | 22.49 | 20.04                   | 50                 |
|                    |            | 6#0                   | 21.25                                   | 21.98 | 21.71 | 19.53                   | 50                 |
|                    |            | 6#9                   | 21.29                                   | 21.45 | 21.67 | 19.22                   | 50                 |
|                    |            | 15#0                  | 21.03                                   | 21.92 | 21.58 | 19.47                   | 50                 |
|                    | 16QAM      | 1#0                   | 21.99                                   | 21.07 | 21.04 | 19.54                   | 50                 |
|                    |            | 1#8                   | 21.18                                   | 21.10 | 21.91 | 19.46                   | 50                 |
|                    |            | 1#14                  | 21.46                                   | 21.12 | 21.54 | 19.09                   | 50                 |
|                    |            | 6#0                   | 20.06                                   | 20.00 | 20.03 | 17.61                   | 50                 |
|                    |            | 6#9                   | 20.90                                   | 20.90 | 20.68 | 18.45                   | 50                 |
|                    |            | 15#0                  | 20.72                                   | 20.71 | 20.61 | 18.27                   | 50                 |
| 5                  | QPSK       | 1#0                   | 22.28                                   | 22.11 | 22.36 | 19.91                   | 50                 |
|                    |            | 1#13                  | 22.04                                   | 22.17 | 22.29 | 19.84                   | 50                 |
|                    |            | 1#24                  | 22.37                                   | 22.31 | 22.48 | 20.03                   | 50                 |
|                    |            | 15#0                  | 21.79                                   | 21.18 | 21.01 | 19.34                   | 50                 |
|                    |            | 15#10                 | 21.72                                   | 21.83 | 21.79 | 19.38                   | 50                 |
|                    |            | 25#0                  | 21.03                                   | 21.16 | 21.15 | 18.71                   | 50                 |
|                    | 16QAM      | 1#0                   | 21.34                                   | 21.29 | 21.20 | 18.89                   | 50                 |
|                    |            | 1#13                  | 21.29                                   | 21.34 | 21.74 | 19.29                   | 50                 |
|                    |            | 1#24                  | 21.79                                   | 21.75 | 21.58 | 19.34                   | 50                 |
|                    |            | 15#0                  | 20.60                                   | 20.22 | 20.21 | 18.15                   | 50                 |
|                    |            | 15#10                 | 20.05                                   | 20.05 | 20.15 | 17.70                   | 50                 |
|                    |            | 25#0                  | 20.25                                   | 20.25 | 20.94 | 18.49                   | 50                 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |      |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | High | Cross |                         |                    |
| 10                 | QPSK       | 1#0                   | 24.59                                   | /    | 24.61 | 22.16                   | 50                 |
|                    |            | 1#25                  | 25.06                                   | /    | 25.24 | 22.79                   | 50                 |
|                    |            | 1#49                  | 24.84                                   | /    | 24.78 | 22.39                   | 50                 |
|                    |            | 25#0                  | 25.01                                   | /    | 25.02 | 22.57                   | 50                 |
|                    |            | 25#25                 | 25.49                                   | /    | 25.46 | 23.04                   | 50                 |
|                    |            | 50#0                  | 24.56                                   | /    | 24.56 | 22.11                   | 50                 |
|                    | 16QAM      | 1#0                   | 24.97                                   | /    | 25.47 | 23.02                   | 50                 |
|                    |            | 1#25                  | 25.15                                   | /    | 25.27 | 22.82                   | 50                 |
|                    |            | 1#49                  | 25.31                                   | /    | 24.96 | 22.86                   | 50                 |
|                    |            | 25#0                  | 24.96                                   | /    | 24.56 | 22.51                   | 50                 |
|                    |            | 25#25                 | 25.48                                   | /    | 25.18 | 23.03                   | 50                 |
|                    |            | 50#0                  | 24.95                                   | /    | 24.84 | 22.50                   | 50                 |
| 15                 | QPSK       | 1#0                   | 25.37                                   | /    | 24.96 | 22.92                   | 50                 |
|                    |            | 1#38                  | 25.09                                   | /    | 25.43 | 22.98                   | 50                 |
|                    |            | 1#74                  | 24.89                                   | /    | 24.73 | 22.44                   | 50                 |
|                    |            | 36#0                  | 24.60                                   | /    | 25.13 | 22.68                   | 50                 |
|                    |            | 36#39                 | 24.73                                   | /    | 24.71 | 22.28                   | 50                 |
|                    |            | 75#0                  | 25.27                                   | /    | 25.34 | 22.89                   | 50                 |
|                    | 16QAM      | 1#0                   | 25.41                                   | /    | 24.79 | 22.96                   | 50                 |
|                    |            | 1#38                  | 25.14                                   | /    | 25.02 | 22.69                   | 50                 |
|                    |            | 1#74                  | 25.16                                   | /    | 24.67 | 22.71                   | 50                 |
|                    |            | 36#0                  | 24.68                                   | /    | 24.51 | 22.23                   | 50                 |
|                    |            | 36#39                 | 24.96                                   | /    | 24.67 | 22.51                   | 50                 |
|                    |            | 75#0                  | 24.75                                   | /    | 24.52 | 22.30                   | 50                 |

**LTE Band 26(824-849MHz)**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 1.4                | QPSK       | 1#0                   | 22.67                                   | 21.79 | 22.54 | 20.22                   | 38.45              |
|                    |            | 1#3                   | 21.68                                   | 21.02 | 22.79 | 20.34                   | 38.45              |
|                    |            | 1#5                   | 22.72                                   | 21.63 | 21.21 | 20.27                   | 38.45              |
|                    |            | 3#0                   | 22.47                                   | 22.52 | 22.92 | 20.47                   | 38.45              |
|                    |            | 3#3                   | 21.79                                   | 22.99 | 22.98 | 20.54                   | 38.45              |
|                    |            | 6#0                   | 21.42                                   | 22.15 | 21.95 | 19.70                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.36                                   | 22.71 | 22.27 | 20.26                   | 38.45              |
|                    |            | 1#3                   | 22.53                                   | 22.49 | 22.96 | 20.51                   | 38.45              |
|                    |            | 1#5                   | 22.14                                   | 21.01 | 22.23 | 19.78                   | 38.45              |
|                    |            | 3#0                   | 21.19                                   | 22.42 | 21.14 | 19.97                   | 38.45              |
|                    |            | 3#3                   | 22.73                                   | 22.53 | 22.42 | 20.28                   | 38.45              |
|                    |            | 6#0                   | 22.91                                   | 21.64 | 21.11 | 20.46                   | 38.45              |
| 3                  | QPSK       | 1#0                   | 21.95                                   | 22.59 | 22.58 | 20.14                   | 38.45              |
|                    |            | 1#8                   | 21.16                                   | 22.17 | 21.91 | 19.72                   | 38.45              |
|                    |            | 1#14                  | 21.74                                   | 22.49 | 21.39 | 20.04                   | 38.45              |
|                    |            | 6#0                   | 21.86                                   | 21.09 | 22.05 | 19.60                   | 38.45              |
|                    |            | 6#9                   | 22.36                                   | 22.46 | 21.92 | 20.01                   | 38.45              |
|                    |            | 15#0                  | 21.54                                   | 21.35 | 21.72 | 19.27                   | 38.45              |
|                    | 16QAM      | 1#0                   | 22.32                                   | 22.94 | 22.97 | 20.52                   | 38.45              |
|                    |            | 1#8                   | 21.58                                   | 21.33 | 22.72 | 20.27                   | 38.45              |
|                    |            | 1#14                  | 21.47                                   | 22.96 | 21.22 | 20.51                   | 38.45              |
|                    |            | 6#0                   | 21.91                                   | 21.40 | 22.44 | 19.99                   | 38.45              |
|                    |            | 6#9                   | 21.31                                   | 21.87 | 22.37 | 19.92                   | 38.45              |
|                    |            | 15#0                  | 22.13                                   | 22.77 | 22.56 | 20.32                   | 38.45              |
| 5                  | QPSK       | 1#0                   | 22.01                                   | 22.70 | 22.56 | 20.25                   | 38.45              |
|                    |            | 1#13                  | 22.23                                   | 22.58 | 21.41 | 20.13                   | 38.45              |
|                    |            | 1#24                  | 21.66                                   | 22.85 | 22.55 | 20.40                   | 38.45              |
|                    |            | 15#0                  | 21.36                                   | 22.24 | 22.60 | 20.15                   | 38.45              |
|                    |            | 15#10                 | 22.88                                   | 22.61 | 22.08 | 20.43                   | 38.45              |
|                    |            | 25#0                  | 21.33                                   | 21.94 | 21.79 | 19.49                   | 38.45              |
|                    | 16QAM      | 1#0                   | 21.40                                   | 22.08 | 21.11 | 19.63                   | 38.45              |
|                    |            | 1#13                  | 22.54                                   | 21.23 | 21.31 | 20.09                   | 38.45              |
|                    |            | 1#24                  | 21.23                                   | 22.96 | 21.99 | 20.51                   | 38.45              |
|                    |            | 15#0                  | 21.66                                   | 22.07 | 22.84 | 20.39                   | 38.45              |
|                    |            | 15#10                 | 21.92                                   | 22.48 | 21.55 | 20.03                   | 38.45              |
|                    |            | 25#0                  | 22.55                                   | 21.16 | 21.70 | 20.10                   | 38.45              |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>ERP<br>(dBm) | ERP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-------------------------|--------------------|
|                    |            |                       | Low                                     | Mid   | High  |                         |                    |
| 10                 | QPSK       | 1#0                   | 22.09                                   | 22.31 | 22.99 | 20.54                   | 38.45              |
|                    |            | 1#25                  | 22.32                                   | 22.13 | 22.04 | 19.87                   | 38.45              |
|                    |            | 1#49                  | 22.53                                   | 22.48 | 22.98 | 20.53                   | 38.45              |
|                    |            | 25#0                  | 22.60                                   | 22.53 | 22.67 | 20.22                   | 38.45              |
|                    |            | 25#25                 | 22.73                                   | 22.42 | 22.14 | 20.28                   | 38.45              |
|                    |            | 50#0                  | 21.85                                   | 21.79 | 21.82 | 19.40                   | 38.45              |
|                    | 16QAM      | 1#0                   | 22.62                                   | 21.93 | 22.45 | 20.17                   | 38.45              |
|                    |            | 1#25                  | 21.77                                   | 22.06 | 22.82 | 20.37                   | 38.45              |
|                    |            | 1#49                  | 22.28                                   | 22.11 | 21.92 | 19.83                   | 38.45              |
|                    |            | 25#0                  | 21.14                                   | 21.26 | 21.27 | 18.82                   | 38.45              |
|                    |            | 25#25                 | 21.67                                   | 21.08 | 21.90 | 19.45                   | 38.45              |
|                    |            | 50#0                  | 21.21                                   | 21.08 | 21.82 | 19.37                   | 38.45              |
| 15                 | QPSK       | 1#0                   | 22.14                                   | 22.03 | 22.65 | 20.20                   | 38.45              |
|                    |            | 1#38                  | 22.57                                   | 22.43 | 22.22 | 20.12                   | 38.45              |
|                    |            | 1#74                  | 22.05                                   | 22.13 | 22.53 | 20.08                   | 38.45              |
|                    |            | 36#0                  | 21.59                                   | 21.44 | 21.36 | 19.14                   | 38.45              |
|                    |            | 36#39                 | 22.22                                   | 21.83 | 21.67 | 19.77                   | 38.45              |
|                    |            | 75#0                  | 22.07                                   | 21.98 | 22.13 | 19.68                   | 38.45              |
|                    | 16QAM      | 1#0                   | 22.01                                   | 22.03 | 22.48 | 20.03                   | 38.45              |
|                    |            | 1#38                  | 22.77                                   | 22.36 | 21.57 | 20.32                   | 38.45              |
|                    |            | 1#74                  | 21.83                                   | 22.12 | 22.05 | 19.67                   | 38.45              |
|                    |            | 36#0                  | 21.02                                   | 20.96 | 21.10 | 18.65                   | 38.45              |
|                    |            | 36#39                 | 21.26                                   | 20.81 | 21.12 | 18.81                   | 38.45              |
|                    |            | 75#0                  | 21.36                                   | 21.29 | 21.68 | 19.23                   | 38.45              |

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)

Antenna Gain (dBd) = Antenna Gain (dBi)-2.15

Limit: ERP≤38.45dBm (Part 22H), ERP≤50dBm (Part 90S)

**LTE Band 38**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.02                                   | 22.28 | 22.11 | 23.98                    | 33                  |
|                    |            | 1#13                  | 22.08                                   | 22.33 | 22.36 | 24.06                    | 33                  |
|                    |            | 1#24                  | 22.27                                   | 22.05 | 22.40 | 24.1                     | 33                  |
|                    |            | 15#0                  | 21.90                                   | 21.10 | 21.17 | 23.6                     | 33                  |
|                    |            | 15#10                 | 21.94                                   | 21.82 | 21.15 | 23.64                    | 33                  |
|                    |            | 25#0                  | 21.89                                   | 21.95 | 21.19 | 23.65                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.39                                   | 21.82 | 21.34 | 23.52                    | 33                  |
|                    |            | 1#13                  | 21.88                                   | 21.05 | 21.03 | 23.58                    | 33                  |
|                    |            | 1#24                  | 21.76                                   | 21.29 | 21.60 | 23.46                    | 33                  |
|                    |            | 15#0                  | 20.83                                   | 21.00 | 20.01 | 22.7                     | 33                  |
|                    |            | 15#10                 | 20.23                                   | 20.85 | 20.60 | 22.55                    | 33                  |
|                    |            | 25#0                  | 20.53                                   | 20.37 | 20.81 | 22.51                    | 33                  |
| 10                 | QPSK       | 1#0                   | 22.21                                   | 22.00 | 22.37 | 24.07                    | 33                  |
|                    |            | 1#25                  | 22.24                                   | 22.22 | 22.43 | 24.13                    | 33                  |
|                    |            | 1#49                  | 22.16                                   | 22.17 | 22.42 | 24.12                    | 33                  |
|                    |            | 25#0                  | 21.28                                   | 21.83 | 21.37 | 23.53                    | 33                  |
|                    |            | 25#25                 | 21.63                                   | 21.37 | 21.43 | 23.33                    | 33                  |
|                    |            | 50#0                  | 21.56                                   | 21.48 | 21.48 | 23.26                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.31                                   | 21.86 | 21.45 | 23.56                    | 33                  |
|                    |            | 1#25                  | 21.53                                   | 21.58 | 21.48 | 23.28                    | 33                  |
|                    |            | 1#49                  | 21.65                                   | 21.59 | 21.15 | 23.35                    | 33                  |
|                    |            | 25#0                  | 20.02                                   | 20.02 | 20.50 | 22.2                     | 33                  |
|                    |            | 25#25                 | 20.52                                   | 21.00 | 20.91 | 22.7                     | 33                  |
|                    |            | 50#0                  | 20.09                                   | 20.94 | 20.98 | 22.68                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.02                                   | 22.29 | 22.01 | 23.99                    | 33                  |
|                    |            | 1#38                  | 22.03                                   | 22.45 | 22.45 | 24.15                    | 33                  |
|                    |            | 1#74                  | 22.04                                   | 22.20 | 22.04 | 23.9                     | 33                  |
|                    |            | 36#0                  | 21.49                                   | 21.08 | 21.74 | 23.44                    | 33                  |
|                    |            | 36#39                 | 21.20                                   | 21.57 | 21.01 | 23.27                    | 33                  |
|                    |            | 75#0                  | 21.49                                   | 21.87 | 21.79 | 23.57                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.90                                   | 21.10 | 21.95 | 23.65                    | 33                  |
|                    |            | 1#38                  | 21.18                                   | 21.40 | 21.00 | 23.10                    | 33                  |
|                    |            | 1#74                  | 21.99                                   | 21.16 | 21.33 | 23.69                    | 33                  |
|                    |            | 36#0                  | 20.47                                   | 20.08 | 20.85 | 22.55                    | 33                  |
|                    |            | 36#39                 | 20.49                                   | 20.89 | 20.77 | 22.59                    | 33                  |
|                    |            | 75#0                  | 20.84                                   | 20.94 | 20.10 | 22.64                    | 33                  |
| 20                 | QPSK       | 1#0                   | 22.23                                   | 22.50 | 22.02 | 24.20                    | 33                  |
|                    |            | 1#50                  | 22.21                                   | 22.35 | 22.11 | 24.05                    | 33                  |
|                    |            | 1#99                  | 22.17                                   | 22.38 | 22.16 | 24.08                    | 33                  |
|                    |            | 50#0                  | 21.15                                   | 21.33 | 21.15 | 23.03                    | 33                  |
|                    |            | 50#50                 | 21.49                                   | 21.64 | 21.62 | 23.34                    | 33                  |
|                    |            | 100#0                 | 21.84                                   | 21.31 | 21.12 | 23.54                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.76                                   | 21.84 | 21.04 | 23.54                    | 33                  |
|                    |            | 1#50                  | 21.92                                   | 21.25 | 21.68 | 23.62                    | 33                  |
|                    |            | 1#99                  | 21.09                                   | 21.70 | 21.91 | 23.61                    | 33                  |
|                    |            | 50#0                  | 20.84                                   | 20.87 | 20.73 | 22.57                    | 33                  |
|                    |            | 50#50                 | 20.07                                   | 20.01 | 20.80 | 22.50                    | 33                  |
|                    |            | 100#0                 | 20.48                                   | 20.53 | 20.63 | 22.33                    | 33                  |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Limit: EIRP≤33dBm

**LTE Band 41**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 5                  | QPSK       | 1#0                   | 22.11                                   | 22.46 | 22.47 | 24.40                    | 33                  |
|                    |            | 1#13                  | 22.11                                   | 22.37 | 22.49 | 24.42                    | 33                  |
|                    |            | 1#24                  | 22.36                                   | 22.45 | 22.27 | 24.38                    | 33                  |
|                    |            | 15#0                  | 21.13                                   | 21.74 | 21.36 | 23.67                    | 33                  |
|                    |            | 15#10                 | 21.43                                   | 21.38 | 21.04 | 23.36                    | 33                  |
|                    |            | 25#0                  | 21.81                                   | 21.77 | 22.00 | 23.93                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.75                                   | 21.20 | 21.98 | 23.91                    | 33                  |
|                    |            | 1#13                  | 21.19                                   | 21.55 | 21.04 | 23.48                    | 33                  |
|                    |            | 1#24                  | 21.28                                   | 21.68 | 21.55 | 23.61                    | 33                  |
|                    |            | 15#0                  | 20.10                                   | 20.01 | 20.55 | 22.48                    | 33                  |
|                    |            | 15#10                 | 20.74                                   | 20.29 | 20.10 | 22.67                    | 33                  |
|                    |            | 25#0                  | 20.88                                   | 20.77 | 20.20 | 22.81                    | 33                  |
| 10                 | QPSK       | 1#0                   | 22.34                                   | 22.48 | 22.18 | 24.41                    | 33                  |
|                    |            | 1#25                  | 22.17                                   | 22.22 | 22.30 | 24.23                    | 33                  |
|                    |            | 1#49                  | 22.08                                   | 22.17 | 22.23 | 24.16                    | 33                  |
|                    |            | 25#0                  | 21.38                                   | 21.28 | 21.25 | 23.31                    | 33                  |
|                    |            | 25#25                 | 21.13                                   | 21.30 | 21.54 | 23.47                    | 33                  |
|                    |            | 50#0                  | 21.01                                   | 21.02 | 21.60 | 23.53                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.93                                   | 21.69 | 21.60 | 23.86                    | 33                  |
|                    |            | 1#25                  | 21.51                                   | 21.67 | 21.35 | 23.60                    | 33                  |
|                    |            | 1#49                  | 21.06                                   | 21.50 | 21.76 | 23.69                    | 33                  |
|                    |            | 25#0                  | 20.84                                   | 20.61 | 20.52 | 22.77                    | 33                  |
|                    |            | 25#25                 | 20.18                                   | 20.23 | 20.72 | 22.65                    | 33                  |
|                    |            | 50#0                  | 20.06                                   | 20.06 | 20.78 | 22.71                    | 33                  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output Power<br>(dBm) |       |       | Maximum<br>EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|--------------------------|---------------------|
|                    |            |                       | Low                                     | Mid   | High  |                          |                     |
| 15                 | QPSK       | 1#0                   | 22.45                                   | 22.13 | 22.41 | 24.38                    | 33                  |
|                    |            | 1#38                  | 22.47                                   | 22.43 | 22.08 | 24.4                     | 33                  |
|                    |            | 1#74                  | 22.33                                   | 22.04 | 22.35 | 24.28                    | 33                  |
|                    |            | 36#0                  | 21.44                                   | 21.43 | 21.17 | 23.37                    | 33                  |
|                    |            | 36#39                 | 21.38                                   | 21.39 | 21.21 | 23.32                    | 33                  |
|                    |            | 75#0                  | 21.79                                   | 21.54 | 21.27 | 23.72                    | 33                  |
|                    | 16QAM      | 1#0                   | 22.00                                   | 21.61 | 21.94 | 23.93                    | 33                  |
|                    |            | 1#38                  | 21.90                                   | 21.83 | 21.87 | 23.83                    | 33                  |
|                    |            | 1#74                  | 21.04                                   | 21.31 | 21.63 | 23.56                    | 33                  |
|                    |            | 36#0                  | 20.43                                   | 20.57 | 20.43 | 22.5                     | 33                  |
|                    |            | 36#39                 | 20.74                                   | 20.97 | 20.11 | 22.9                     | 33                  |
|                    |            | 75#0                  | 20.28                                   | 20.91 | 20.03 | 22.84                    | 33                  |
| 20                 | QPSK       | 1#0                   | 22.13                                   | 22.30 | 22.20 | 24.23                    | 33                  |
|                    |            | 1#50                  | 22.11                                   | 22.48 | 22.42 | 24.41                    | 33                  |
|                    |            | 1#99                  | 22.20                                   | 22.38 | 22.08 | 24.31                    | 33                  |
|                    |            | 50#0                  | 21.11                                   | 21.64 | 21.75 | 23.68                    | 33                  |
|                    |            | 50#50                 | 21.61                                   | 21.31 | 21.73 | 23.66                    | 33                  |
|                    |            | 100#0                 | 21.02                                   | 21.89 | 21.89 | 23.82                    | 33                  |
|                    | 16QAM      | 1#0                   | 21.98                                   | 21.77 | 21.74 | 23.91                    | 33                  |
|                    |            | 1#50                  | 21.61                                   | 21.70 | 21.60 | 23.63                    | 33                  |
|                    |            | 1#99                  | 21.32                                   | 21.02 | 21.30 | 23.25                    | 33                  |
|                    |            | 50#0                  | 20.14                                   | 20.46 | 20.32 | 22.39                    | 33                  |
|                    |            | 50#50                 | 20.03                                   | 20.20 | 20.88 | 22.81                    | 33                  |
|                    |            | 100#0                 | 20.78                                   | 20.50 | 20.04 | 22.71                    | 33                  |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Limit: EIRP<sub>≤</sub>33dBm



### **Declarations**

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95.45% confidence interval.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***