

## RF Test Report

Applicant : MobileHelp, LLC  
Product Type : LTE Module  
Trade Name : Quectel  
Model Number : SC20-A  
Test Specification : FCC 47 CFR PART 22H  
FCC 47 CFR PART 24E  
FCC 47 CFR PART 27  
ANSI C63.26  
Receive Date : Apr. 09, 2019  
Test Period : Apr. 25 ~ May 09, 2019  
Issue Date : Jun. 14, 2019

### Issue by

A Test Lab Techno Corp.  
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Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

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### **Revision History**

| Rev. | Issue Date    | Revisions     | Revised By |
|------|---------------|---------------|------------|
| 00   | Jun. 14, 2019 | Initial Issue | Nina Lin   |
|      |               |               |            |
|      |               |               |            |
|      |               |               |            |

## Verification of Compliance

Issued Date: Jun. 14, 2019

Applicant : MobileHelp, LLC

Product Type : LTE Module

Trade Name : Quectel

Model Number : SC20-A

FCC ID : PXT-201706SC20A

EUT Rated Voltage : DC 3.5 V ~ DC 4.2 V

Test Voltage : 120 Vac / 60 Hz

Applicable Standard : FCC 47 CFR PART 22H  
FCC 47 CFR PART 24E  
FCC 47 CFR PART 27  
ANSI C63.26

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.  
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Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang  
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)



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# 1 General Information

## 1.1. EUT Description

|                            |   |             |  |
|----------------------------|---|-------------|--|
| Applicant                  | MobileHelp, LLC<br>5050 Conference Way N, Suite 125, Boca Raton, Florida 33431, United States   |             |  |
| Manufacturer               | Quectel Wireless Solutions Co., Ltd.<br>7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China  |             |  |
| Product Type               | LTE Module  |             |  |
| Trade Name                 | Quectel   |             |  |
| Model Number               | SC20-A  |             |  |
| FCC ID                     | PXT-201706SC20A   |             |  |
| Class II Permissive Change | <p>This is to request a Class II permissive change for FCC ID: PXT-201706SC20A, originally granted on 6/13/2019.</p> <p>The major change filed under this application is:</p> <p>Change #1: Host added, MobileHelp, model number: DC-TBS2-01</p> <p>#2: Disable GSM, WCDMA B4 and LTE bands B7,B13,B25,B26 by firmware.</p> <p>#3: Reduce the Output Power through firmware, and SAR measurement were evaluated.</p> <p>(Only reduce WCDMA band2/LTE band2/Wi-Fi 2.4GHz/Bluetooth output Power, other undescribed parts haven't changes).</p> <p>#4: Addition antennas, the WWAN WCDMA/LTE band 2 antenna gain higher then original grant, WLAN/Bluetooth antenna type different from original grant. The radiated emission has verified and compliance with FCC regulations. Other undescribed parts antenna gain lower then original grant.</p> |             |  |
| Host Information           | Product Type: Tablet Base Station<br>Trade Name: MobileHelp<br>Model Name: DC-TBS2-01   |             |  |
| IMEI No.                   | 015559000091890   |             |  |
| Operate Band               | Frequency Range (MHz)   | Modulation  | Channel Bandwidth                                |
| LTE Band 2                 | UL: 1850 ~ 1910   | QPSK, 16QAM | 1.4 MHz, 3 MHz, 5 MHz,<br>10 MHz, 15 MHz, 20 MHz |
|                            | DL: 1930 ~ 1990   | QPSK, 16QAM |  |
| LTE Band 4                 | UL: 1710 ~ 1755   | QPSK, 16QAM | 1.4 MHz, 3 MHz, 5 MHz,<br>10 MHz, 15 MHz, 20 MHz |
|                            | DL: 2110 ~ 2155   | QPSK, 16QAM |  |
| LTE Band 5                 | UL: 824 ~ 849   | QPSK, 16QAM | 1.4 MHz, 3 MHz, 5 MHz,<br>10 MHz                 |
|                            | DL: 869 ~ 894   | QPSK, 16QAM |  |
| LTE Band 12                | UL: 699 ~ 716   | QPSK, 16QAM | 1.4 MHz, 3 MHz, 5 MHz,<br>10 MHz                 |
|                            | DL: 728 ~ 746   | QPSK, 16QAM |  |
| Type of Antenna            | SMT PCB Antenna   |             |  |



|                     |             |          |
|---------------------|-------------|----------|
| Antenna Gain        | LTE Band 2  | 2.91 dBi |
|                     | LTE Band 4  | 2.08 dBi |
|                     | LTE Band 5  | 1.48 dBi |
|                     | LTE Band 12 | 1.41 dBi |
| Operate Temp. Range | -40 ~ 75 °C |          |

| Band      | Channel Bandwidth | Modulation | Max. RF Output Power | E.R.P. /E.I.R.P. |
|-----------|-------------------|------------|----------------------|------------------|
|           |                   |            | (W)                  | (W)              |
| LTE Band2 | 1.4 MHz           | QPSK       | 0.135                | 0.114            |
| LTE Band2 | 1.4 MHz           | 16QAM      | 0.114                | 0.105            |
| LTE Band2 | 3 MHz             | QPSK       | 0.128                | 0.118            |
| LTE Band2 | 3 MHz             | 16QAM      | 0.111                | 0.103            |
| LTE Band2 | 5 MHz             | QPSK       | 0.126                | 0.117            |
| LTE Band2 | 5 MHz             | 16QAM      | 0.100                | 0.100            |
| LTE Band2 | 10 MHz            | QPSK       | 0.125                | 0.117            |
| LTE Band2 | 10 MHz            | 16QAM      | 0.103                | 0.102            |
| LTE Band2 | 15 MHz            | QPSK       | 0.122                | 0.113            |
| LTE Band2 | 15 MHz            | 16QAM      | 0.104                | 0.104            |
| LTE Band2 | 20 MHz            | QPSK       | 0.122                | 0.119            |
| LTE Band2 | 20 MHz            | 16QAM      | 0.107                | 0.100            |
| LTE Band4 | 1.4 MHz           | QPSK       | 0.209                | ---              |
| LTE Band4 | 1.4 MHz           | 16QAM      | 0.173                | ---              |
| LTE Band4 | 3 MHz             | QPSK       | 0.210                | ---              |
| LTE Band4 | 3 MHz             | 16QAM      | 0.169                | ---              |
| LTE Band4 | 5 MHz             | QPSK       | 0.212                | ---              |
| LTE Band4 | 5 MHz             | 16QAM      | 0.171                | ---              |
| LTE Band4 | 10 MHz            | QPSK       | 0.216                | ---              |
| LTE Band4 | 10 MHz            | 16QAM      | 0.176                | ---              |
| LTE Band4 | 15 MHz            | QPSK       | 0.223                | ---              |
| LTE Band4 | 15 MHz            | 16QAM      | 0.185                | ---              |
| LTE Band4 | 20 MHz            | QPSK       | 0.227                | ---              |
| LTE Band4 | 20 MHz            | 16QAM      | 0.185                | ---              |



| Band       | Channel Bandwidth | Modulation | Max. RF Output Power | E.R.P. /E.I.R.P. |
|------------|-------------------|------------|----------------------|------------------|
|            |                   |            | (W)                  | (W)              |
| LTE Band5  | 1.4 MHz           | QPSK       | 0.207                | ---              |
| LTE Band5  | 1.4 MHz           | 16QAM      | 0.170                | ---              |
| LTE Band5  | 3 MHz             | QPSK       | 0.207                | ---              |
| LTE Band5  | 3 MHz             | 16QAM      | 0.171                | ---              |
| LTE Band5  | 5 MHz             | QPSK       | 0.209                | ---              |
| LTE Band5  | 5 MHz             | 16QAM      | 0.174                | ---              |
| LTE Band5  | 10 MHz            | QPSK       | 0.211                | ---              |
| LTE Band5  | 10 MHz            | 16QAM      | 0.175                | ---              |
| LTE Band12 | 1.4 MHz           | QPSK       | 0.209                | ---              |
| LTE Band12 | 1.4 MHz           | 16QAM      | 0.173                | ---              |
| LTE Band12 | 3 MHz             | QPSK       | 0.211                | ---              |
| LTE Band12 | 3 MHz             | 16QAM      | 0.172                | ---              |
| LTE Band12 | 5 MHz             | QPSK       | 0.210                | ---              |
| LTE Band12 | 5 MHz             | 16QAM      | 0.171                | ---              |
| LTE Band12 | 10 MHz            | QPSK       | 0.211                | ---              |
| LTE Band12 | 10 MHz            | 16QAM      | 0.169                | ---              |

## 1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

| LTE Band 2        |         |                 |         |                 |         |                 |
|-------------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel Bandwidth | 1.4 MHz |                 | 3 MHz   |                 | 5 MHz   |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 18607   | 1850.7          | 18615   | 1851.5          | 18625   | 1852.5          |
| Middle CH         | 18900   | 1880.0          | 18900   | 1880.0          | 18900   | 1880.0          |
| High CH           | 19193   | 1909.3          | 19185   | 1908.5          | 19175   | 1907.5          |
| Channel Bandwidth | 10 MHz  |                 | 15 MHz  |                 | 20 MHz  |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 18650   | 1855.0          | 18675   | 1857.5          | 18700   | 1860.0          |
| Middle CH         | 18900   | 1880.0          | 18900   | 1880.0          | 18900   | 1880.0          |
| High CH           | 19150   | 1905.0          | 19125   | 1902.5          | 19100   | 1900.0          |

| LTE Band 4        |         |                 |         |                 |         |                 |
|-------------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel Bandwidth | 1.4 MHz |                 | 3 MHz   |                 | 5 MHz   |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 19957   | 1710.7          | 19965   | 1711.5          | 19975   | 1712.5          |
| Middle CH         | 20175   | 1732.5          | 20175   | 1732.5          | 20175   | 1732.5          |
| High CH           | 20393   | 1754.3          | 20385   | 1753.5          | 20375   | 1752.5          |
| Channel Bandwidth | 10 MHz  |                 | 15 MHz  |                 | 20 MHz  |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 20000   | 1715.0          | 20025   | 1717.5          | 20050   | 1720.0          |
| Middle CH         | 20175   | 1732.5          | 20175   | 1732.5          | 20175   | 1732.5          |
| High CH           | 20350   | 1750.0          | 20325   | 1747.5          | 20300   | 1745.0          |

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.





| LTE Band 5        |         |                 |         |                 |
|-------------------|---------|-----------------|---------|-----------------|
| Channel Bandwidth | 1.4 MHz |                 | 3 MHz   |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 20407   | 824.7           | 20415   | 825.5           |
| Middle CH         | 20525   | 836.5           | 20525   | 836.5           |
| High CH           | 20643   | 848.3           | 20635   | 847.5           |
| Channel Bandwidth | 5 MHz   |                 | 10 MHz  |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 20425   | 826.5           | 20450   | 829.0           |
| Middle CH         | 20525   | 836.5           | 20525   | 836.5           |
| High CH           | 20625   | 846.5           | 20600   | 844.0           |

| LTE Band 12       |         |                 |         |                 |
|-------------------|---------|-----------------|---------|-----------------|
| Channel Bandwidth | 1.4 MHz |                 | 3 MHz   |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 23017   | 699.7           | 23025   | 700.5           |
| Middle CH         | 23095   | 707.5           | 23095   | 707.5           |
| High CH           | 23173   | 715.3           | 23165   | 714.5           |
| Channel Bandwidth | 5 MHz   |                 | 10 MHz  |                 |
|                   | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low CH            | 23035   | 701.5           | 23060   | 704.0           |
| Middle CH         | 23095   | 707.5           | 23095   | 707.5           |
| High CH           | 23155   | 713.5           | 23130   | 711.0           |

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission: 9 kHz to 10th Harmonic

| Band          | Channel Bandwidth | Test Modes  |      |
|---------------|-------------------|---|------|
| LTE<br>Band 2 | 1.4 MHz           | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link          | QPSK |
|               | 3 MHz             | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link        | QPSK |
|               | 5 MHz             | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link   | QPSK |
|               | 10 MHz            | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link  | QPSK |
|               | 15 MHz            | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 37) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 19) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 39) Link<br><input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link  | QPSK |
|               | 20 MHz            | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link<br><input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link | QPSK |



| Band          | Channel Bandwidth | Test Modes  |      |
|---------------|-------------------|---|------|
| LTE<br>Band 4 | 1.4 MHz           | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link          | QPSK |
|               | 3 MHz             | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link        | QPSK |
|               | 5 MHz             | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link   | QPSK |
|               | 10 MHz            | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link  | QPSK |
|               | 15 MHz            | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 37) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 19) Link<br><input type="checkbox"/> LTE(RB Size 36, RB Offset 39) Link<br><input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link  | QPSK |
|               | 20 MHz            | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link<br><input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link | QPSK |



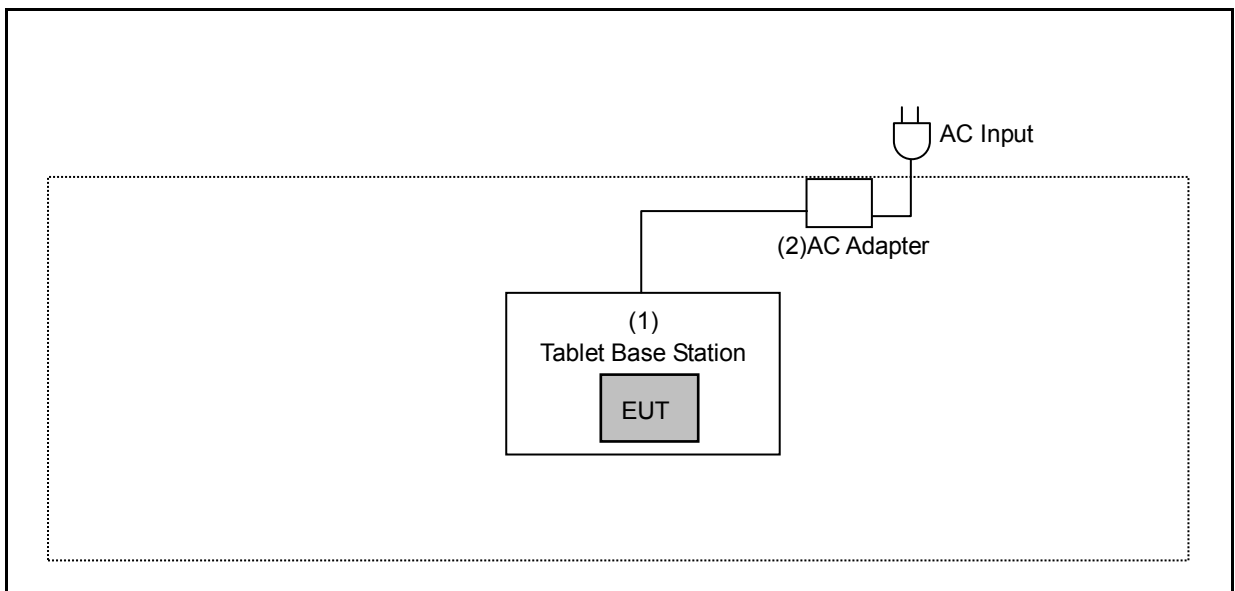
| Band           | Channel Bandwidth | Test Modes   |      |
|----------------|-------------------|--|------|
| LTE<br>Band 5  | 1.4 MHz           | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link         | QPSK |
|                | 3 MHz             | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link       | QPSK |
|                | 5 MHz             | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link  | QPSK |
|                | 10 MHz            | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link | QPSK |
| LTE<br>Band 12 | 1.4 MHz           | <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link<br><input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link         | QPSK |
|                | 3 MHz             | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link<br><input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link<br><input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link       | QPSK |
|                | 5 MHz             | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link<br><input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link  | QPSK |
|                | 10 MHz            | <input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link<br><input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link<br><input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link<br><input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link<br><input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link | QPSK |

### 1.3. EUT Test Step

|   |  |
|---|--|
| 1 | Setup the EUT shown on "Configuration of Test System Details". |
| 2 | Turn on the power of all equipment.                            |
| 3 | EUT run test program test.                                     |

| Measurement Software |                   |          |         |
|----------------------|-------------------|----------|---------|
| No.                  | Description       | Software | Version |
| 1                    | Radiated Emission | EZ EMC   | 1.1.4.4 |

### 1.4. Configuration of Test System Details



| Devices Description |                     |                           |                    |               |            |
|---------------------|---------------------|---------------------------|--------------------|---------------|------------|
|                     | Product             | Manufacturer              | Model Number       | Serial Number | Power Cord |
| (1)                 | Tablet Base Station | MobileHelp                | DC-TBS2-01         | ---           | ---        |
| (2)                 | AC Adapter          | Keen Ocean Industrial Ltd | S09-012-0050-02000 | ---           | ---        |



## 1.5. Test Instruments

For Conducted

Test Period: Apr. 25, 2019

| Equipment                    | Manufacturer | Model Number | Serial Number | Cal. Date  | Cal. Period |
|------------------------------|--------------|--------------|---------------|------------|-------------|
| Radio Communication Analyzer | Anritsu      | MT8820C      | 6201342039    | 12/13/2018 | 1 year      |

For Radiated Emissions

Test Period: May 09, 2019

| Equipment                           | Manufacturer                   | Model Number           | Serial Number | Cal. Date  | Cal. Period |
|-------------------------------------|--------------------------------|------------------------|---------------|------------|-------------|
| Spectrum Analyzer<br>(10 Hz~44 GHz) | Keysight                       | N9010A                 | MY52221312    | 01/14/2019 | 1 year      |
| Pre Amplifier<br>(1~26.5 GHz)       | Agilent                        | 8449B                  | 3008A02237    | 10/16/2018 | 1 year      |
| Pre Amplifier<br>(100 kHz~1.3 GHz)  | Agilent                        | 8447D                  | 2944A11119    | 01/14/2019 | 1 year      |
| Broadband Antenna                   | Schwarzbeck                    | VULB9168               | 416           | 10/19/2018 | 1 year      |
| Horn Antenna<br>(1~18 GHz)          | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA9120D              | 9120D-550     | 08/23/2018 | 1 year      |
| Horn Antenna<br>(18~40 GHz)         | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA9170               | 9170-320      | 08/07/2018 | 1 year      |
| Loop Antenna                        | COM-POWER<br>CORPORATION       | AL-130                 | 121014        | 03/29/2019 | 1 year      |
| RF Cable                            | EMCI                           | EMC104-N-N-6000        | TE01-1        | 02/20/2019 | 1 year      |
| Microwave Cable                     | EMCI                           | EMC104-SM-SM-1<br>3000 | 170814        | 10/30/2018 | 1 year      |
| Microwave Cable                     | EMCI                           | EMC102-KM-KM-1<br>4000 | 151001        | 02/20/2019 | 1 year      |

Note: N.C.R. = No Calibration Request.



## 1.6. Test Site Environment

| Items                      | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|--------|
| Temperature (°C)           | 15-35               | 26     |
| Humidity (%RH)             | 25-75               | 60     |
| Barometric pressure (mbar) | 860-1060            | 990    |

| Test Setting Condition |                    |          |
|------------------------|--------------------|----------|
| N.V.                   | Normal Voltage     | AC 120 V |
| L.T.                   | Low Temperature    | -40 °C   |
| N.T.                   | Normal Temperature | +25 °C   |
| H.T.                   | High Temperature   | +75 °C   |



## 1.7. Summary of Test Result

| FCC Rule                                | Description  | Result          |
|---|--|-----------------|
| §2.1046                                 | Conducted Output Average Power                                     | PASS            |
| §22.913<br>§24.232<br>§27.50            | Equivalent Isotropic Radiated Power /<br>Equivalent Radiated Power | PASS<br>(Note2) |
| §2.1055<br>§22.355<br>§24.235<br>§27.54 | Frequency Stability  | N/A<br>(Note1)  |
| §2.1049                                 | Emission Bandwidth & Occupied Bandwidth                            | N/A<br>(Note1)  |
| §24.232<br>§27.50                       | Peak to average ratio  | N/A<br>(Note1)  |
| §2.1051<br>§22.917<br>§24.238<br>§27.53 | Band Edge  | N/A<br>(Note1)  |
| §2.1051<br>§22.917<br>§24.238<br>§27.53 | Conducted Spurious Emissions                                       | N/A<br>(Note1)  |
| §2.1053<br>§22.917<br>§24.238<br>§27.53 | Radiated Spurious Emissions  | PASS<br>(Note2) |

Note1: Class II permissive change. No need for verification.

Note2: LTE band 2 antenna gain higher than original certificate grant, So we verify

Effective Radiated Power / Equivalent Isotropic Radiated Power and Radiated Spurious Emissions.



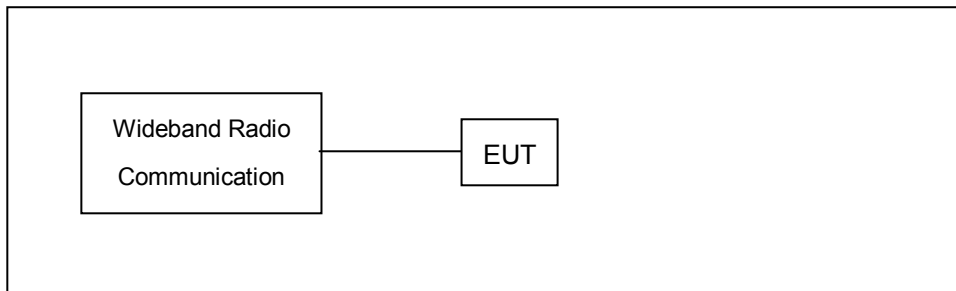
## 2 Measurement Procedure

### 2.1. Conducted Output Average Power Test

- **Limit**

N/A

- **Test Setup**



- **Test Procedure**

- a. The EUT was set up for the maximum power with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

- **Uncertainty**

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

## 2.2. Effective Radiated Power / Equivalent Isotropic Radiated Power Test

### ■ Limit

For FCC Part 27: The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

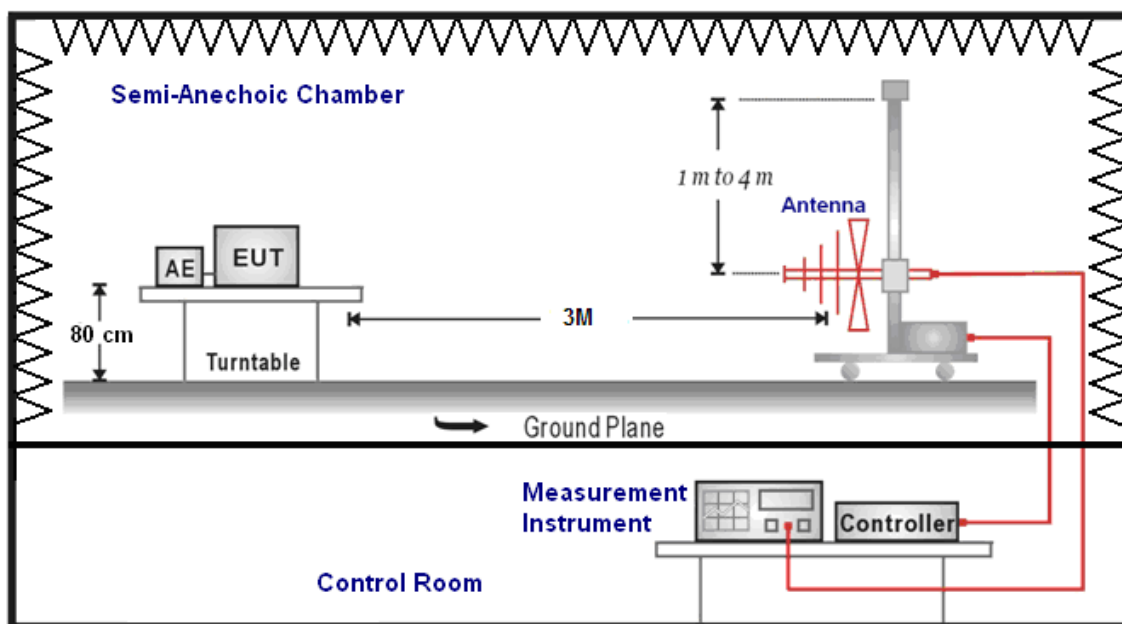
For FCC Part 27.50(c)(9): Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

For FCC Part 22.913(a)(5): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

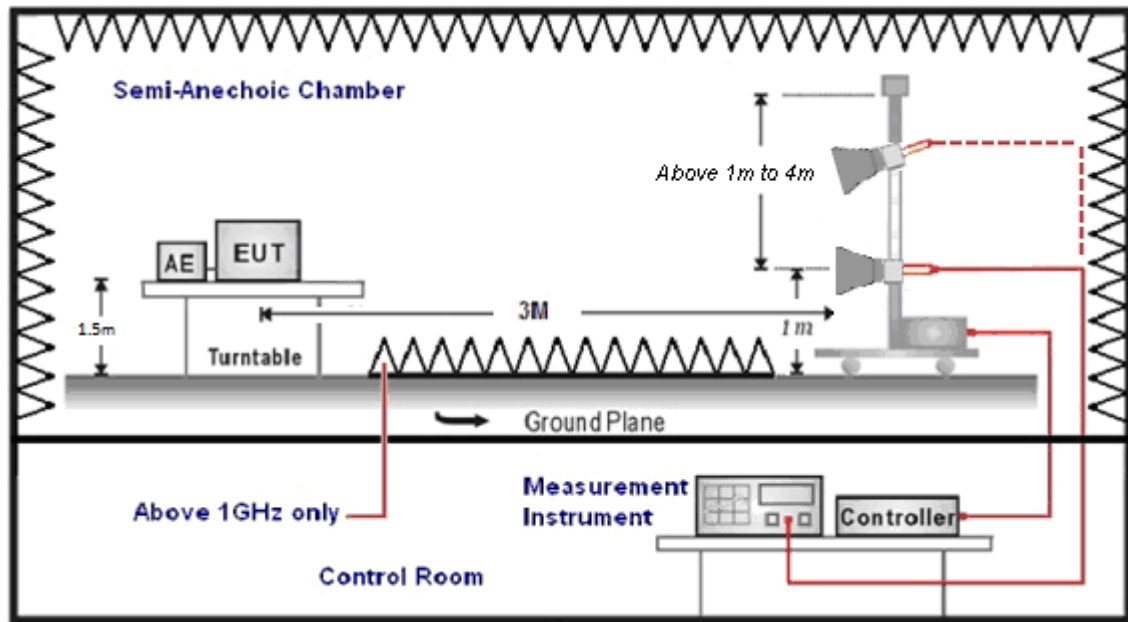
For FCC Part 24.232(c): The E.I.R.P. of Mobile and portable stations test transmitters must not exceed 2 Watts.

### ■ Test Setup

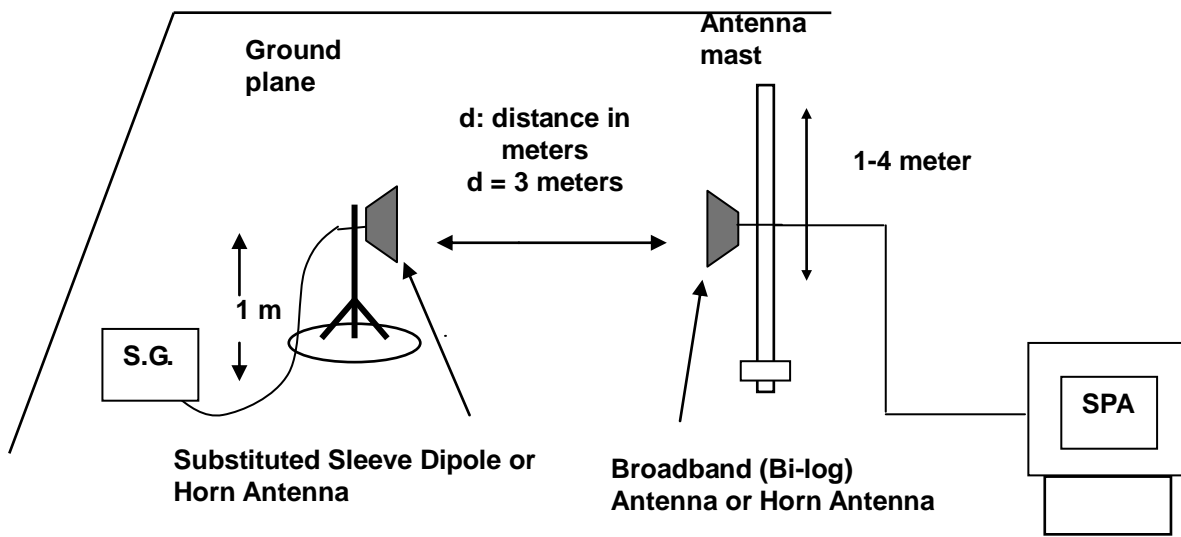
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



### ■ Test Procedure

- a. The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn
- e. E.R.P. = E.I.R.P- 2.15 dB

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenna

- a. LC: signal loss in the measurement cable, in dB;
- b. The free space propagation path loss LP is determined from the Equation:
- c.  $LP = 20 \log F + 20 \log d - 27.5$  ,where:
- d. LP basic free space propagation path loss, in dB;
- e. F center frequency of radiated EUT signal, in MHz;
- f. d measurement distance, in m.
- g. ERP (dBm) = EIRP - 2.15

### ■ Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072$  dB.

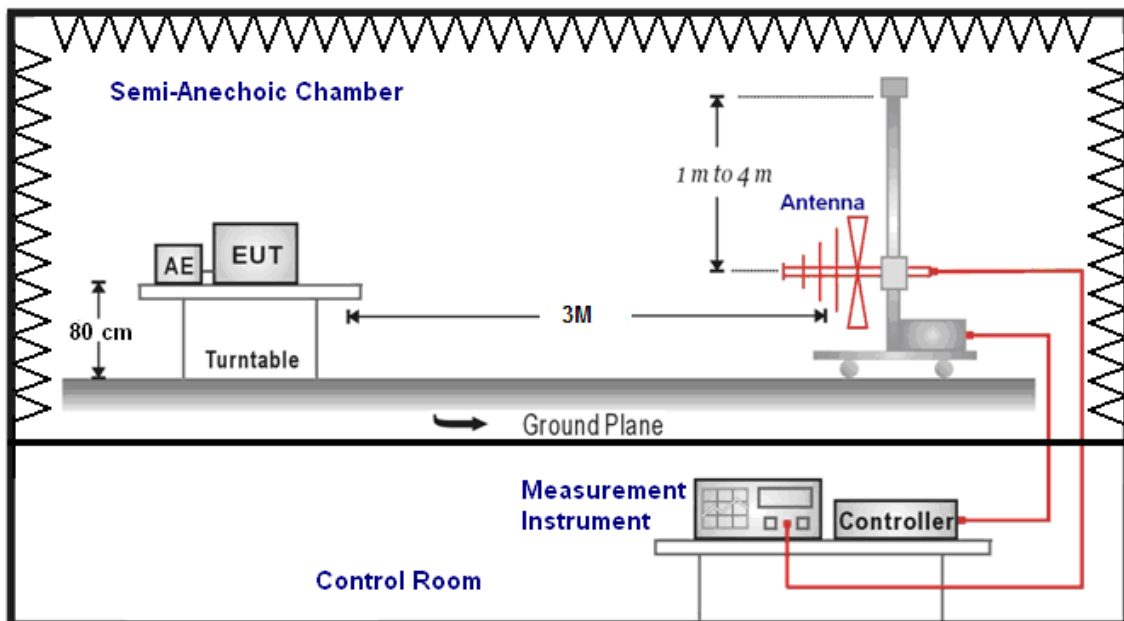
## 2.3. Radiated Emission Test

### ■ Limit

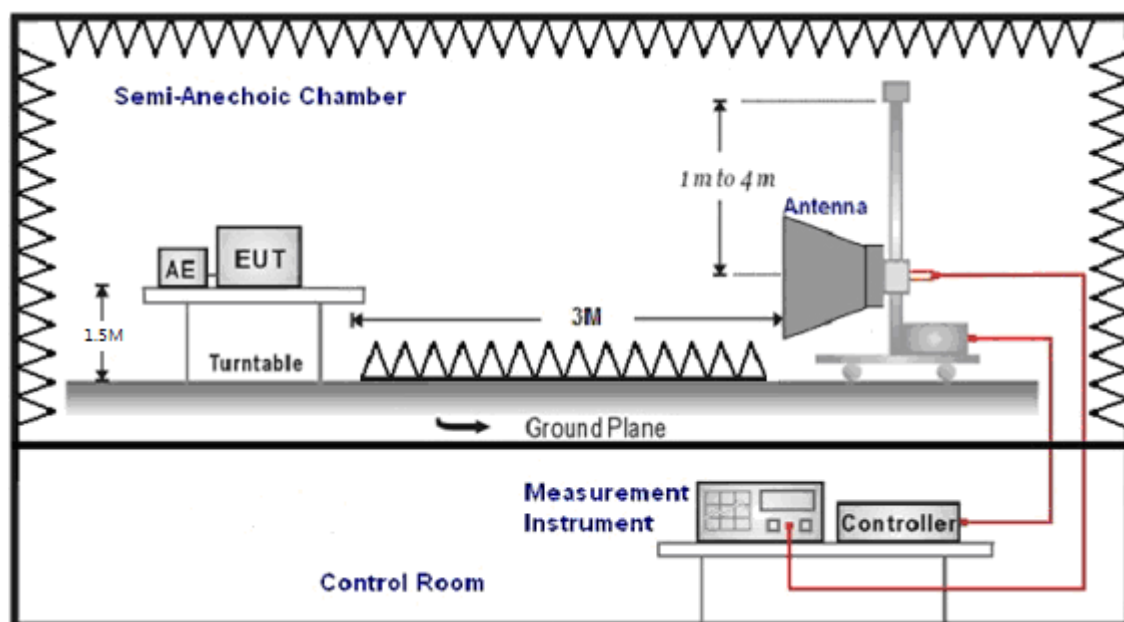
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission equal to -13 dBm

### ■ Setup

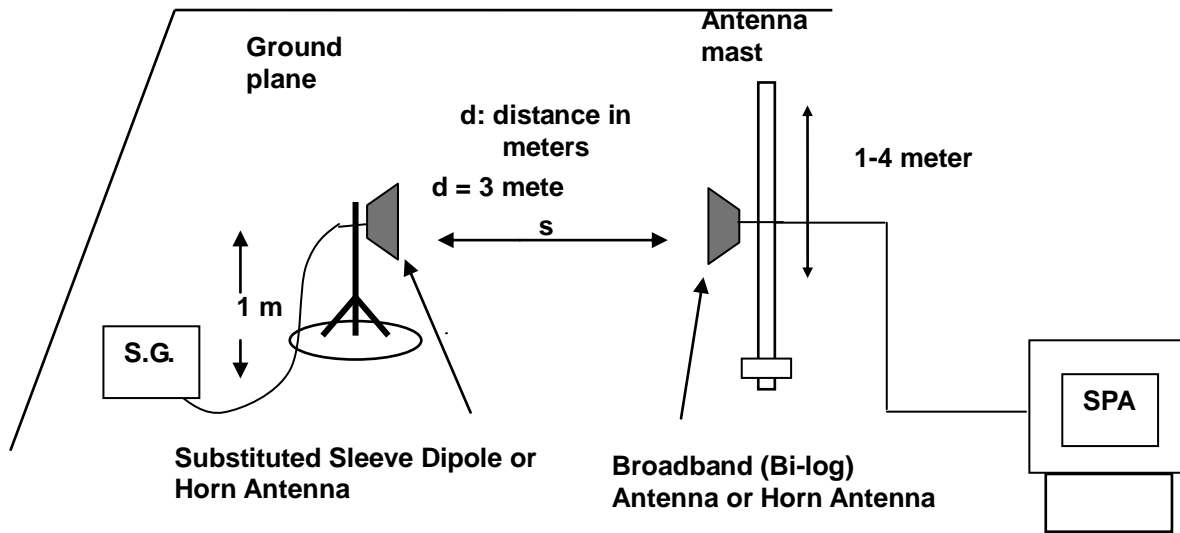
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



#### ■ Test Procedure

- a. The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna (Note: 1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d.  $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e.  $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$
- f. Measurement range 9 kHz - 10 th Harmonic

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenn

#### ■ Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072 \text{ dB}$ .



### 3 Test Results

#### Conducted Output Average Power

| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|-----------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|           |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band2 | 1.4 MHz           | QPSK       | 18607   | 1850.7          | 1                | 0      | 20.63         | 0.116        |
|           |                   |            |         |                 | 1                | 2      | 20.79         | 0.120        |
|           |                   |            |         |                 | 1                | 5      | 20.65         | 0.116        |
|           |                   |            |         |                 | 3                | 0      | 20.58         | 0.114        |
|           |                   |            |         |                 | 3                | 1      | 20.52         | 0.113        |
|           |                   |            |         |                 | 3                | 3      | 20.61         | 0.115        |
|           |                   |            | 6       | 0               | 20.00            | 0.100  |               |              |
|           |                   |            | 18900   | 1880.0          | 1                | 0      | 20.78         | 0.120        |
|           |                   |            |         |                 | 1                | 2      | 21.09         | 0.129        |
|           |                   |            |         |                 | 1                | 5      | 20.86         | 0.122        |
|           |                   |            |         |                 | 3                | 0      | 21.01         | 0.126        |
|           |                   |            |         |                 | 3                | 1      | 21.05         | 0.127        |
|           |                   |            |         |                 | 3                | 3      | 21.14         | 0.130        |
|           |                   |            | 6       | 0               | 20.01            | 0.100  |               |              |
|           |                   |            | 19193   | 1909.3          | 1                | 0      | 20.88         | 0.122        |
|           |                   |            |         |                 | 1                | 2      | <b>21.29</b>  | <b>0.135</b> |
|           |                   |            |         |                 | 1                | 5      | 21.23         | 0.133        |
|           |                   |            |         |                 | 3                | 0      | 21.11         | 0.129        |
|           |                   | 3          |         |                 | 1                | 21.11  | 0.129         |              |
|           |                   | 3          |         |                 | 3                | 21.18  | 0.131         |              |
|           |                   | 6          | 0       | 20.13           | 0.103            |        |               |              |
|           |                   | 16QAM      | 18607   | 1850.7          | 1                | 0      | 19.97         | 0.099        |
|           |                   |            |         |                 | 1                | 2      | 20.08         | 0.102        |
|           |                   |            |         |                 | 1                | 5      | 19.87         | 0.097        |
|           |                   |            |         |                 | 3                | 0      | 20.23         | 0.105        |
|           |                   |            |         |                 | 3                | 1      | 20.17         | 0.104        |
|           |                   |            |         |                 | 3                | 3      | 20.16         | 0.104        |
|           |                   |            | 6       | 0               | 18.93            | 0.078  |               |              |
|           |                   |            | 18900   | 1880.0          | 1                | 0      | 20.35         | 0.108        |
|           |                   |            |         |                 | 1                | 2      | <b>20.56</b>  | <b>0.114</b> |
| 1         | 5                 |            |         |                 | 20.07            | 0.102  |               |              |
| 3         | 0                 |            |         |                 | 20.42            | 0.110  |               |              |
| 3         | 1                 |            |         |                 | 20.46            | 0.111  |               |              |
| 3         | 3                 | 20.52      |         |                 | 0.113            |        |               |              |
| 6         | 0                 | 19.08      | 0.081   |                 |                  |        |               |              |
| 19193     | 1909.3            | 1          | 0       | 20.29           | 0.107            |        |               |              |
|           |                   | 1          | 2       | 20.42           | 0.110            |        |               |              |
|           |                   | 1          | 5       | 20.08           | 0.102            |        |               |              |
|           |                   | 3          | 0       | 20.31           | 0.107            |        |               |              |
|           |                   | 3          | 1       | 20.40           | 0.110            |        |               |              |
|           |                   | 3          | 3       | 20.39           | 0.109            |        |               |              |
| 6         | 0                 | 19.14      | 0.082   |                 |                  |        |               |              |



| Band      | Channel Bandwidth | Modulation   | Channel      | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|--------------|--------------|-----------------|------------------|--------------|---------------|-------|
|           |                   |              |              |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band2 | 3 MHz             | QPSK         | 18615        | 1851.5          | 1                | 0            | 20.75         | 0.119 |
|           |                   |              |              |                 | 1                | 7            | 20.87         | 0.122 |
|           |                   |              |              |                 | 1                | 14           | 20.94         | 0.124 |
|           |                   |              |              |                 | 8                | 0            | 19.90         | 0.098 |
|           |                   |              |              |                 | 8                | 3            | 19.95         | 0.099 |
|           |                   |              |              |                 | 8                | 7            | 19.91         | 0.098 |
|           |                   |              | 15           | 0               | 19.86            | 0.097        |               |       |
|           |                   |              | 1            | 0               | 20.87            | 0.122        |               |       |
|           |                   |              | 1            | 7               | 21.01            | 0.126        |               |       |
|           |                   |              | 1            | 14              | 21.03            | 0.127        |               |       |
|           |                   |              | 8            | 0               | 19.98            | 0.100        |               |       |
|           |                   |              | 8            | 3               | 19.88            | 0.097        |               |       |
|           |                   |              | 8            | 7               | 19.96            | 0.099        |               |       |
|           |                   |              | 15           | 0               | 19.88            | 0.097        |               |       |
|           |                   |              | 1            | 0               | 20.89            | 0.123        |               |       |
|           |                   |              | 1            | 7               | 21.06            | 0.128        |               |       |
|           |                   |              | 1            | 14              | <b>21.08</b>     | <b>0.128</b> |               |       |
|           |                   |              | 8            | 0               | 20.00            | 0.100        |               |       |
|           |                   | 8            | 3            | 20.05           | 0.101            |              |               |       |
|           |                   | 8            | 7            | 20.03           | 0.101            |              |               |       |
|           |                   | 15           | 0            | 20.02           | 0.100            |              |               |       |
|           |                   | 1            | 0            | 19.95           | 0.099            |              |               |       |
|           |                   | 1            | 7            | 19.77           | 0.095            |              |               |       |
|           |                   | 1            | 14           | 19.92           | 0.098            |              |               |       |
|           |                   | 8            | 0            | 18.82           | 0.076            |              |               |       |
|           |                   | 8            | 3            | 18.86           | 0.077            |              |               |       |
|           |                   | 8            | 7            | 18.81           | 0.076            |              |               |       |
|           |                   | 15           | 0            | 18.88           | 0.077            |              |               |       |
|           |                   | 1            | 0            | 20.13           | 0.103            |              |               |       |
|           |                   | 1            | 7            | 20.31           | 0.107            |              |               |       |
| 1         | 14                | 20.19        | 0.104        |                 |                  |              |               |       |
| 8         | 0                 | 18.87        | 0.077        |                 |                  |              |               |       |
| 8         | 3                 | 18.81        | 0.076        |                 |                  |              |               |       |
| 8         | 7                 | 18.86        | 0.077        |                 |                  |              |               |       |
| 15        | 0                 | 18.89        | 0.077        |                 |                  |              |               |       |
| 1         | 0                 | <b>20.46</b> | <b>0.111</b> |                 |                  |              |               |       |
| 1         | 7                 | 19.99        | 0.100        |                 |                  |              |               |       |
| 1         | 14                | 20.06        | 0.101        |                 |                  |              |               |       |
| 8         | 0                 | 18.99        | 0.079        |                 |                  |              |               |       |
| 8         | 3                 | 19.02        | 0.080        |                 |                  |              |               |       |
| 8         | 7                 | 19.03        | 0.080        |                 |                  |              |               |       |
| 15        | 0                 | 18.95        | 0.079        |                 |                  |              |               |       |





| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band2 | 5 MHz             | QPSK       | 18625   | 1852.5          | 1                | 0            | 20.46         | 0.111 |
|           |                   |            |         |                 | 1                | 12           | 20.57         | 0.114 |
|           |                   |            |         |                 | 1                | 24           | 20.75         | 0.119 |
|           |                   |            |         |                 | 12               | 0            | 19.76         | 0.095 |
|           |                   |            |         |                 | 12               | 6            | 19.73         | 0.094 |
|           |                   |            |         |                 | 12               | 13           | 19.76         | 0.095 |
|           |                   |            | 25      | 0               | 19.76            | 0.095        |               |       |
|           |                   |            | 1       | 0               | 20.83            | 0.121        |               |       |
|           |                   |            | 1       | 12              | 20.82            | 0.121        |               |       |
|           |                   |            | 1       | 24              | 20.89            | 0.123        |               |       |
|           |                   |            | 12      | 0               | 19.85            | 0.097        |               |       |
|           |                   |            | 12      | 6               | 19.86            | 0.097        |               |       |
|           |                   |            | 12      | 13              | 19.83            | 0.096        |               |       |
|           |                   |            | 25      | 0               | 19.77            | 0.095        |               |       |
|           |                   |            | 1       | 0               | 20.83            | 0.121        |               |       |
|           |                   |            | 1       | 12              | 20.96            | 0.125        |               |       |
|           |                   |            | 1       | 24              | <b>21.01</b>     | <b>0.126</b> |               |       |
|           |                   |            | 12      | 0               | 19.98            | 0.100        |               |       |
|           |                   | 12         | 6       | 19.89           | 0.097            |              |               |       |
|           |                   | 12         | 13      | 19.95           | 0.099            |              |               |       |
|           |                   | 25         | 0       | 19.99           | 0.100            |              |               |       |
|           |                   | 1          | 0       | 19.91           | 0.098            |              |               |       |
|           |                   | 1          | 12      | 19.69           | 0.093            |              |               |       |
|           |                   | 1          | 24      | 19.88           | 0.097            |              |               |       |
|           |                   | 12         | 0       | 18.83           | 0.076            |              |               |       |
|           |                   | 12         | 6       | 18.81           | 0.076            |              |               |       |
|           |                   | 12         | 13      | 18.87           | 0.077            |              |               |       |
|           |                   | 25         | 0       | 18.89           | 0.077            |              |               |       |
|           |                   | 1          | 0       | 20.02           | 0.100            |              |               |       |
|           |                   | 1          | 12      | 19.72           | 0.094            |              |               |       |
|           |                   | 1          | 24      | 19.89           | 0.097            |              |               |       |
|           |                   | 12         | 0       | 18.84           | 0.077            |              |               |       |
|           |                   | 12         | 6       | 18.86           | 0.077            |              |               |       |
|           |                   | 12         | 13      | 18.83           | 0.076            |              |               |       |
|           |                   | 25         | 0       | 18.82           | 0.076            |              |               |       |
|           |                   | 1          | 0       | <b>20.02</b>    | <b>0.100</b>     |              |               |       |
| 1         | 12                | 19.81      | 0.096   |                 |                  |              |               |       |
| 1         | 24                | 20.01      | 0.100   |                 |                  |              |               |       |
| 12        | 0                 | 18.86      | 0.077   |                 |                  |              |               |       |
| 12        | 6                 | 18.95      | 0.079   |                 |                  |              |               |       |
| 12        | 11                | 18.89      | 0.077   |                 |                  |              |               |       |
| 25        | 0                 | 19.04      | 0.080   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|-----------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|           |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band2 | 10 MHz            | QPSK       | 18650   | 1855.0          | 1                | 0      | 20.78         | 0.120        |
|           |                   |            |         |                 | 1                | 24     | 20.79         | 0.120        |
|           |                   |            |         |                 | 1                | 49     | 20.64         | 0.116        |
|           |                   |            |         |                 | 25               | 0      | 19.74         | 0.094        |
|           |                   |            |         |                 | 25               | 12     | 19.64         | 0.092        |
|           |                   |            |         |                 | 25               | 25     | 19.71         | 0.094        |
|           |                   |            | 18900   | 1880.0          | 50               | 0      | 19.66         | 0.092        |
|           |                   |            |         |                 | 1                | 0      | 20.88         | 0.122        |
|           |                   |            |         |                 | 1                | 24     | 20.86         | 0.122        |
|           |                   |            |         |                 | 1                | 49     | 20.84         | 0.121        |
|           |                   |            |         |                 | 25               | 0      | 19.84         | 0.096        |
|           |                   |            |         |                 | 25               | 12     | 19.75         | 0.094        |
|           |                   |            | 19150   | 1905.0          | 25               | 25     | 19.77         | 0.095        |
|           |                   |            |         |                 | 50               | 0      | 19.81         | 0.096        |
|           |                   |            |         |                 | 1                | 0      | 20.81         | 0.121        |
|           |                   |            |         |                 | 1                | 24     | <b>20.97</b>  | <b>0.125</b> |
|           |                   |            |         |                 | 1                | 49     | 20.89         | 0.123        |
|           |                   |            |         |                 | 25               | 0      | 19.87         | 0.097        |
|           |                   | 16QAM      | 18650   | 1855.0          | 25               | 12     | 19.84         | 0.096        |
|           |                   |            |         |                 | 25               | 25     | 19.94         | 0.099        |
|           |                   |            |         |                 | 50               | 0      | 19.83         | 0.096        |
|           |                   |            |         |                 | 1                | 0      | 19.94         | 0.099        |
|           |                   |            |         |                 | 1                | 24     | 19.93         | 0.098        |
|           |                   |            |         |                 | 1                | 49     | 19.73         | 0.094        |
|           |                   |            | 18900   | 1880.0          | 25               | 0      | 18.88         | 0.077        |
|           |                   |            |         |                 | 25               | 12     | 18.88         | 0.077        |
|           |                   |            |         |                 | 25               | 25     | 18.85         | 0.077        |
|           |                   |            |         |                 | 50               | 0      | 18.89         | 0.077        |
|           |                   |            |         |                 | 1                | 0      | 20.10         | 0.102        |
|           |                   |            |         |                 | 1                | 24     | 19.93         | 0.098        |
| 19150     | 1905.0            | 1          | 49      | 20.09           | 0.102            |        |               |              |
|           |                   | 25         | 0       | 18.86           | 0.077            |        |               |              |
|           |                   | 25         | 12      | 18.83           | 0.076            |        |               |              |
|           |                   | 25         | 25      | 18.88           | 0.077            |        |               |              |
|           |                   | 50         | 0       | 18.81           | 0.076            |        |               |              |
|           |                   | 1          | 0       | 20.09           | 0.102            |        |               |              |
| 19150     | 1905.0            | 1          | 24      | <b>20.12</b>    | <b>0.103</b>     |        |               |              |
|           |                   | 1          | 49      | 20.06           | 0.101            |        |               |              |
|           |                   | 25         | 0       | 18.82           | 0.076            |        |               |              |
|           |                   | 25         | 12      | 18.88           | 0.077            |        |               |              |
|           |                   | 25         | 25      | 18.99           | 0.079            |        |               |              |
|           |                   | 50         | 0       | 18.83           | 0.076            |        |               |              |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band2 | 15 MHz            | QPSK       | 18675   | 1857.5          | 1                | 0            | 20.49         | 0.112 |
|           |                   |            |         |                 | 1                | 37           | 20.50         | 0.112 |
|           |                   |            |         |                 | 1                | 74           | 20.70         | 0.117 |
|           |                   |            |         |                 | 36               | 0            | 19.65         | 0.092 |
|           |                   |            |         |                 | 36               | 19           | 19.53         | 0.090 |
|           |                   |            |         |                 | 36               | 39           | 19.64         | 0.092 |
|           |                   |            | 75      | 0               | 19.61            | 0.091        |               |       |
|           |                   |            | 1       | 0               | 20.69            | 0.117        |               |       |
|           |                   |            | 1       | 37              | 20.65            | 0.116        |               |       |
|           |                   |            | 1       | 74              | <b>20.88</b>     | <b>0.122</b> |               |       |
|           |                   |            | 36      | 0               | 19.76            | 0.095        |               |       |
|           |                   |            | 36      | 19              | 19.70            | 0.093        |               |       |
|           |                   |            | 36      | 39              | 19.66            | 0.092        |               |       |
|           |                   |            | 75      | 0               | 19.67            | 0.093        |               |       |
|           |                   |            | 1       | 0               | 20.80            | 0.120        |               |       |
|           |                   |            | 1       | 37              | 20.65            | 0.116        |               |       |
|           |                   |            | 1       | 74              | 20.83            | 0.121        |               |       |
|           |                   |            | 36      | 0               | 19.75            | 0.094        |               |       |
|           |                   | 36         | 19      | 19.71           | 0.094            |              |               |       |
|           |                   | 36         | 39      | 19.89           | 0.097            |              |               |       |
|           |                   | 75         | 0       | 19.75           | 0.094            |              |               |       |
|           |                   | 1          | 0       | 19.94           | 0.099            |              |               |       |
|           |                   | 1          | 37      | 19.83           | 0.096            |              |               |       |
|           |                   | 1          | 74      | 19.83           | 0.096            |              |               |       |
|           |                   | 36         | 0       | 18.86           | 0.077            |              |               |       |
|           |                   | 36         | 19      | 18.83           | 0.076            |              |               |       |
|           |                   | 36         | 39      | 18.85           | 0.077            |              |               |       |
|           |                   | 75         | 0       | 18.82           | 0.076            |              |               |       |
|           |                   | 1          | 0       | <b>20.15</b>    | <b>0.104</b>     |              |               |       |
|           |                   | 1          | 37      | 19.59           | 0.091            |              |               |       |
| 1         | 74                | 19.94      | 0.099   |                 |                  |              |               |       |
| 36        | 0                 | 18.82      | 0.076   |                 |                  |              |               |       |
| 36        | 19                | 18.83      | 0.076   |                 |                  |              |               |       |
| 36        | 39                | 18.89      | 0.077   |                 |                  |              |               |       |
| 75        | 0                 | 18.81      | 0.076   |                 |                  |              |               |       |
| 1         | 0                 | 19.98      | 0.100   |                 |                  |              |               |       |
| 1         | 37                | 19.75      | 0.094   |                 |                  |              |               |       |
| 1         | 74                | 20.12      | 0.103   |                 |                  |              |               |       |
| 36        | 0                 | 18.83      | 0.076   |                 |                  |              |               |       |
| 36        | 19                | 18.85      | 0.077   |                 |                  |              |               |       |
| 36        | 39                | 18.94      | 0.078   |                 |                  |              |               |       |
| 75        | 0                 | 18.82      | 0.076   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|-----------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|           |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band2 | 20 MHz            | QPSK       | 18700   | 1860.0          | 1                | 0      | 20.83         | 0.121        |
|           |                   |            |         |                 | 1                | 49     | 20.65         | 0.116        |
|           |                   |            |         |                 | 1                | 99     | 20.82         | 0.121        |
|           |                   |            |         |                 | 50               | 0      | 19.71         | 0.094        |
|           |                   |            |         |                 | 50               | 25     | 19.65         | 0.092        |
|           |                   |            |         |                 | 50               | 50     | 19.66         | 0.092        |
|           |                   |            | 18900   | 1880.0          | 100              | 0      | 19.70         | 0.093        |
|           |                   |            |         |                 | 1                | 0      | 20.81         | 0.121        |
|           |                   |            |         |                 | 1                | 49     | 20.69         | 0.117        |
|           |                   |            |         |                 | 1                | 99     | 20.63         | 0.116        |
|           |                   |            |         |                 | 50               | 0      | 19.75         | 0.094        |
|           |                   |            |         |                 | 50               | 25     | 19.75         | 0.094        |
|           |                   |            | 19100   | 1900.0          | 50               | 50     | 19.76         | 0.095        |
|           |                   |            |         |                 | 100              | 0      | 19.80         | 0.095        |
|           |                   |            |         |                 | 1                | 0      | <b>20.85</b>  | <b>0.122</b> |
|           |                   |            |         |                 | 1                | 49     | 20.79         | 0.120        |
|           |                   |            |         |                 | 1                | 99     | 20.71         | 0.118        |
|           |                   |            |         |                 | 50               | 0      | 19.83         | 0.096        |
|           |                   | 16QAM      | 18700   | 1860.0          | 50               | 25     | 19.62         | 0.092        |
|           |                   |            |         |                 | 50               | 50     | 19.75         | 0.094        |
|           |                   |            |         |                 | 100              | 0      | 19.78         | 0.095        |
|           |                   |            |         |                 | 1                | 0      | 20.10         | 0.102        |
|           |                   |            |         |                 | 1                | 49     | 19.88         | 0.097        |
|           |                   |            |         |                 | 1                | 99     | 19.83         | 0.096        |
|           |                   |            | 18900   | 1880.0          | 50               | 0      | 19.86         | 0.097        |
|           |                   |            |         |                 | 50               | 25     | 19.66         | 0.092        |
|           |                   |            |         |                 | 50               | 50     | 19.69         | 0.093        |
|           |                   |            |         |                 | 100              | 0      | 19.58         | 0.091        |
|           |                   |            |         |                 | 1                | 0      | 20.11         | 0.103        |
|           |                   |            |         |                 | 1                | 49     | 20.02         | 0.100        |
| 19100     | 1900.0            | 1          | 99      | 19.93           | 0.098            |        |               |              |
|           |                   | 50         | 0       | 19.47           | 0.089            |        |               |              |
|           |                   | 50         | 25      | 19.53           | 0.090            |        |               |              |
|           |                   | 50         | 50      | 19.59           | 0.091            |        |               |              |
|           |                   | 100        | 0       | 19.29           | 0.085            |        |               |              |
|           |                   | 1          | 0       | 20.14           | 0.103            |        |               |              |
| 19100     | 1900.0            | 1          | 49      | 20.11           | 0.103            |        |               |              |
|           |                   | 1          | 99      | <b>20.29</b>    | <b>0.107</b>     |        |               |              |
|           |                   | 50         | 0       | 19.88           | 0.097            |        |               |              |
|           |                   | 50         | 25      | 19.85           | 0.097            |        |               |              |
|           |                   | 50         | 50      | 19.86           | 0.097            |        |               |              |
|           |                   | 100        | 0       | 19.83           | 0.096            |        |               |              |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band4 | 1.4 MHz           | QPSK       | 19957   | 1710.7          | 1                | 0            | 23.20         | 0.209 |
|           |                   |            |         |                 | 1                | 2            | 23.18         | 0.208 |
|           |                   |            |         |                 | 1                | 5            | 23.13         | 0.206 |
|           |                   |            |         |                 | 3                | 0            | 22.99         | 0.199 |
|           |                   |            |         |                 | 3                | 1            | 23.02         | 0.200 |
|           |                   |            |         |                 | 3                | 3            | 23.19         | 0.208 |
|           |                   |            | 6       | 0               | 22.11            | 0.163        |               |       |
|           |                   |            | 1       | 0               | 23.05            | 0.202        |               |       |
|           |                   |            | 1       | 2               | <b>23.21</b>     | <b>0.209</b> |               |       |
|           |                   |            | 1       | 5               | 23.08            | 0.203        |               |       |
|           |                   |            | 3       | 0               | 23.13            | 0.206        |               |       |
|           |                   |            | 3       | 1               | 23.16            | 0.207        |               |       |
|           |                   |            | 3       | 3               | 23.10            | 0.204        |               |       |
|           |                   |            | 6       | 0               | 22.12            | 0.163        |               |       |
|           |                   |            | 1       | 0               | 22.85            | 0.193        |               |       |
|           |                   |            | 1       | 2               | 22.96            | 0.198        |               |       |
|           |                   |            | 1       | 5               | 22.82            | 0.191        |               |       |
|           |                   |            | 3       | 0               | 22.84            | 0.192        |               |       |
|           |                   | 3          | 1       | 22.87           | 0.194            |              |               |       |
|           |                   | 3          | 3       | 22.80           | 0.191            |              |               |       |
|           |                   | 6          | 0       | 21.93           | 0.156            |              |               |       |
|           |                   | 1          | 0       | 22.08           | 0.161            |              |               |       |
|           |                   | 1          | 2       | 22.04           | 0.160            |              |               |       |
|           |                   | 1          | 5       | 22.34           | 0.171            |              |               |       |
|           |                   | 3          | 0       | 21.56           | 0.143            |              |               |       |
|           |                   | 3          | 1       | 21.38           | 0.137            |              |               |       |
|           |                   | 3          | 3       | 21.30           | 0.135            |              |               |       |
|           |                   | 6          | 0       | 20.57           | 0.114            |              |               |       |
|           |                   | 1          | 0       | 22.12           | 0.163            |              |               |       |
|           |                   | 1          | 2       | 22.25           | 0.168            |              |               |       |
|           |                   | 1          | 5       | <b>22.37</b>    | <b>0.173</b>     |              |               |       |
|           |                   | 3          | 0       | 21.73           | 0.149            |              |               |       |
|           |                   | 3          | 1       | 21.70           | 0.148            |              |               |       |
|           |                   | 3          | 3       | 21.60           | 0.145            |              |               |       |
|           |                   | 6          | 0       | 20.58           | 0.114            |              |               |       |
|           |                   | 1          | 0       | 22.07           | 0.161            |              |               |       |
| 1         | 2                 | 22.32      | 0.171   |                 |                  |              |               |       |
| 1         | 5                 | 22.18      | 0.165   |                 |                  |              |               |       |
| 3         | 0                 | 22.04      | 0.160   |                 |                  |              |               |       |
| 3         | 1                 | 22.19      | 0.166   |                 |                  |              |               |       |
| 3         | 3                 | 22.16      | 0.164   |                 |                  |              |               |       |
| 6         | 0                 | 21.24      | 0.133   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|-----------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|           |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band4 | 3 MHz             | QPSK       | 19965   | 1711.5          | 1                | 0      | <b>23.22</b>  | <b>0.210</b> |
|           |                   |            |         |                 | 1                | 7      | 23.07         | 0.203        |
|           |                   |            |         |                 | 1                | 14     | 23.09         | 0.204        |
|           |                   |            |         |                 | 8                | 0      | 22.13         | 0.163        |
|           |                   |            |         |                 | 8                | 3      | 22.12         | 0.163        |
|           |                   |            |         |                 | 8                | 7      | 21.99         | 0.158        |
|           |                   |            | 15      | 0               | 22.13            | 0.163  |               |              |
|           |                   |            | 1       | 0               | 23.13            | 0.206  |               |              |
|           |                   |            | 1       | 7               | 23.00            | 0.200  |               |              |
|           |                   |            | 1       | 14              | 23.03            | 0.201  |               |              |
|           |                   |            | 8       | 0               | 22.18            | 0.165  |               |              |
|           |                   |            | 8       | 3               | 22.18            | 0.165  |               |              |
|           |                   |            | 8       | 7               | 22.04            | 0.160  |               |              |
|           |                   |            | 15      | 0               | 22.12            | 0.163  |               |              |
|           |                   |            | 1       | 0               | 22.95            | 0.197  |               |              |
|           |                   |            | 1       | 7               | 22.79            | 0.190  |               |              |
|           |                   |            | 1       | 14              | 22.90            | 0.195  |               |              |
|           |                   |            | 8       | 0               | 21.97            | 0.157  |               |              |
|           |                   | 8          | 3       | 21.99           | 0.158            |        |               |              |
|           |                   | 8          | 7       | 21.89           | 0.155            |        |               |              |
|           |                   | 15         | 0       | 21.88           | 0.154            |        |               |              |
|           |                   | 1          | 0       | <b>22.27</b>    | <b>0.169</b>     |        |               |              |
|           |                   | 1          | 7       | 22.15           | 0.164            |        |               |              |
|           |                   | 1          | 14      | 22.22           | 0.167            |        |               |              |
|           |                   | 8          | 0       | 21.24           | 0.133            |        |               |              |
|           |                   | 8          | 3       | 21.20           | 0.132            |        |               |              |
|           |                   | 8          | 7       | 21.10           | 0.129            |        |               |              |
|           |                   | 15         | 0       | 21.07           | 0.128            |        |               |              |
|           |                   | 1          | 0       | 22.17           | 0.165            |        |               |              |
|           |                   | 1          | 7       | 22.19           | 0.166            |        |               |              |
|           |                   | 1          | 14      | 22.22           | 0.167            |        |               |              |
|           |                   | 8          | 0       | 20.98           | 0.125            |        |               |              |
|           |                   | 8          | 3       | 20.89           | 0.123            |        |               |              |
|           |                   | 8          | 7       | 20.70           | 0.117            |        |               |              |
|           |                   | 15         | 0       | 21.14           | 0.130            |        |               |              |
|           |                   | 1          | 0       | 22.21           | 0.166            |        |               |              |
| 1         | 7                 | 22.17      | 0.165   |                 |                  |        |               |              |
| 1         | 14                | 22.14      | 0.164   |                 |                  |        |               |              |
| 8         | 0                 | 20.90      | 0.123   |                 |                  |        |               |              |
| 8         | 3                 | 20.83      | 0.121   |                 |                  |        |               |              |
| 8         | 7                 | 20.84      | 0.121   |                 |                  |        |               |              |
| 15        | 0                 | 20.84      | 0.121   |                 |                  |        |               |              |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band4 | 5 MHz             | QPSK       | 19975   | 1712.5          | 1                | 0            | 23.06         | 0.202 |
|           |                   |            |         |                 | 1                | 12           | 22.80         | 0.191 |
|           |                   |            |         |                 | 1                | 24           | 22.99         | 0.199 |
|           |                   |            |         |                 | 12               | 0            | 22.12         | 0.163 |
|           |                   |            |         |                 | 12               | 6            | 21.98         | 0.158 |
|           |                   |            |         |                 | 12               | 13           | 22.07         | 0.161 |
|           |                   |            | 25      | 0               | 22.07            | 0.161        |               |       |
|           |                   |            | 1       | 0               | <b>23.26</b>     | <b>0.212</b> |               |       |
|           |                   |            | 1       | 12              | 22.87            | 0.194        |               |       |
|           |                   |            | 1       | 24              | 23.00            | 0.200        |               |       |
|           |                   |            | 12      | 0               | 22.05            | 0.160        |               |       |
|           |                   |            | 12      | 6               | 22.03            | 0.160        |               |       |
|           |                   |            | 12      | 13              | 22.09            | 0.162        |               |       |
|           |                   |            | 25      | 0               | 22.11            | 0.163        |               |       |
|           |                   |            | 1       | 0               | 22.85            | 0.193        |               |       |
|           |                   |            | 1       | 12              | 22.72            | 0.187        |               |       |
|           |                   |            | 1       | 24              | 22.87            | 0.194        |               |       |
|           |                   |            | 12      | 0               | 21.81            | 0.152        |               |       |
|           |                   | 12         | 6       | 21.85           | 0.153            |              |               |       |
|           |                   | 12         | 13      | 21.98           | 0.158            |              |               |       |
|           |                   | 25         | 0       | 21.84           | 0.153            |              |               |       |
|           |                   | 1          | 0       | 22.00           | 0.158            |              |               |       |
|           |                   | 1          | 12      | 21.74           | 0.149            |              |               |       |
|           |                   | 1          | 24      | 22.10           | 0.162            |              |               |       |
|           |                   | 12         | 0       | 20.93           | 0.124            |              |               |       |
|           |                   | 12         | 6       | 20.81           | 0.121            |              |               |       |
|           |                   | 12         | 13      | 21.03           | 0.127            |              |               |       |
|           |                   | 25         | 0       | 21.12           | 0.129            |              |               |       |
|           |                   | 1          | 0       | <b>22.32</b>    | <b>0.171</b>     |              |               |       |
|           |                   | 1          | 12      | 21.89           | 0.155            |              |               |       |
|           |                   | 1          | 24      | 22.18           | 0.165            |              |               |       |
|           |                   | 12         | 0       | 21.24           | 0.133            |              |               |       |
|           |                   | 12         | 6       | 21.15           | 0.130            |              |               |       |
|           |                   | 12         | 13      | 21.20           | 0.132            |              |               |       |
|           |                   | 25         | 0       | 21.24           | 0.133            |              |               |       |
|           |                   | 1          | 0       | 22.08           | 0.161            |              |               |       |
| 1         | 12                | 21.86      | 0.153   |                 |                  |              |               |       |
| 1         | 24                | 22.13      | 0.163   |                 |                  |              |               |       |
| 12        | 0                 | 20.86      | 0.122   |                 |                  |              |               |       |
| 12        | 6                 | 20.80      | 0.120   |                 |                  |              |               |       |
| 12        | 11                | 20.82      | 0.121   |                 |                  |              |               |       |
| 25        | 0                 | 20.89      | 0.123   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|-----------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|           |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band4 | 10 MHz            | QPSK       | 20000   | 1715.0          | 1                | 0      | <b>23.34</b>  | <b>0.216</b> |
|           |                   |            |         |                 | 1                | 24     | 23.29         | 0.213        |
|           |                   |            |         |                 | 1                | 49     | 23.20         | 0.209        |
|           |                   |            |         |                 | 25               | 0      | 22.18         | 0.165        |
|           |                   |            |         |                 | 25               | 12     | 22.09         | 0.162        |
|           |                   |            |         |                 | 25               | 25     | 22.13         | 0.163        |
|           |                   |            | 20175   | 1732.5          | 50               | 0      | 22.15         | 0.164        |
|           |                   |            |         |                 | 1                | 0      | 23.31         | 0.214        |
|           |                   |            |         |                 | 1                | 24     | 23.26         | 0.212        |
|           |                   |            |         |                 | 1                | 49     | 23.09         | 0.204        |
|           |                   |            |         |                 | 25               | 0      | 22.26         | 0.168        |
|           |                   |            |         |                 | 25               | 12     | 22.07         | 0.161        |
|           |                   |            | 20350   | 1750.0          | 25               | 25     | 22.05         | 0.160        |
|           |                   |            |         |                 | 50               | 0      | 22.11         | 0.163        |
|           |                   |            |         |                 | 1                | 0      | 23.00         | 0.200        |
|           |                   |            |         |                 | 1                | 24     | 22.93         | 0.196        |
|           |                   |            |         |                 | 1                | 49     | 22.82         | 0.191        |
|           |                   |            |         |                 | 25               | 0      | 22.02         | 0.159        |
|           |                   | 16QAM      | 20000   | 1715.0          | 25               | 12     | 21.89         | 0.155        |
|           |                   |            |         |                 | 25               | 25     | 21.95         | 0.157        |
|           |                   |            |         |                 | 50               | 0      | 21.84         | 0.153        |
|           |                   |            |         |                 | 1                | 0      | 22.13         | 0.163        |
|           |                   |            |         |                 | 1                | 24     | 22.39         | 0.173        |
|           |                   |            |         |                 | 1                | 49     | <b>22.45</b>  | <b>0.176</b> |
|           |                   |            | 20175   | 1732.5          | 25               | 0      | 20.67         | 0.117        |
|           |                   |            |         |                 | 25               | 12     | 20.55         | 0.114        |
|           |                   |            |         |                 | 25               | 25     | 20.56         | 0.114        |
|           |                   |            |         |                 | 50               | 0      | 20.66         | 0.116        |
|           |                   |            |         |                 | 1                | 0      | 22.27         | 0.169        |
|           |                   |            |         |                 | 1                | 24     | 22.39         | 0.173        |
|           |                   |            | 20350   | 1750.0          | 1                | 49     | 22.17         | 0.165        |
|           |                   |            |         |                 | 25               | 0      | 20.74         | 0.119        |
|           |                   |            |         |                 | 25               | 12     | 20.56         | 0.114        |
|           |                   |            |         |                 | 25               | 25     | 20.54         | 0.113        |
|           |                   |            |         |                 | 50               | 0      | 20.65         | 0.116        |
|           |                   |            |         |                 | 1                | 0      | 21.79         | 0.151        |
| 20350     | 1750.0            | 1          | 24      | 22.16           | 0.164            |        |               |              |
|           |                   | 1          | 49      | 22.05           | 0.160            |        |               |              |
|           |                   | 25         | 0       | 20.61           | 0.115            |        |               |              |
|           |                   | 25         | 12      | 20.50           | 0.112            |        |               |              |
|           |                   | 25         | 25      | 20.55           | 0.114            |        |               |              |
|           |                   | 50         | 0       | 20.45           | 0.111            |        |               |              |





| Band      | Channel Bandwidth | Modulation   | Channel      | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|--------------|--------------|-----------------|------------------|--------------|---------------|-------|
|           |                   |              |              |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band4 | 15 MHz            | QPSK         | 20025        | 1717.5          | 1                | 0            | 23.44         | 0.221 |
|           |                   |              |              |                 | 1                | 37           | 23.00         | 0.200 |
|           |                   |              |              |                 | 1                | 74           | 23.33         | 0.215 |
|           |                   |              |              |                 | 36               | 0            | 22.18         | 0.165 |
|           |                   |              |              |                 | 36               | 19           | 22.09         | 0.162 |
|           |                   |              |              |                 | 36               | 39           | 22.16         | 0.164 |
|           |                   |              | 75           | 0               | 22.08            | 0.161        |               |       |
|           |                   |              | 1            | 0               | <b>23.48</b>     | <b>0.223</b> |               |       |
|           |                   |              | 1            | 37              | 23.00            | 0.200        |               |       |
|           |                   |              | 1            | 74              | 23.03            | 0.201        |               |       |
|           |                   |              | 36           | 0               | 22.25            | 0.168        |               |       |
|           |                   |              | 36           | 19              | 22.07            | 0.161        |               |       |
|           |                   |              | 36           | 39              | 22.09            | 0.162        |               |       |
|           |                   |              | 75           | 0               | 22.13            | 0.163        |               |       |
|           |                   |              | 1            | 0               | 23.14            | 0.206        |               |       |
|           |                   |              | 1            | 37              | 22.73            | 0.187        |               |       |
|           |                   |              | 1            | 74              | 23.05            | 0.202        |               |       |
|           |                   |              | 36           | 0               | 22.08            | 0.161        |               |       |
|           |                   | 36           | 19           | 21.96           | 0.157            |              |               |       |
|           |                   | 36           | 39           | 21.93           | 0.156            |              |               |       |
|           |                   | 75           | 0            | 21.98           | 0.158            |              |               |       |
|           |                   | 1            | 0            | 22.61           | 0.182            |              |               |       |
|           |                   | 1            | 37           | 22.46           | 0.176            |              |               |       |
|           |                   | 1            | 74           | 22.35           | 0.172            |              |               |       |
|           |                   | 36           | 0            | 20.98           | 0.125            |              |               |       |
|           |                   | 36           | 19           | 20.86           | 0.122            |              |               |       |
|           |                   | 36           | 39           | 20.91           | 0.123            |              |               |       |
|           |                   | 75           | 0            | 21.14           | 0.130            |              |               |       |
|           |                   | 1            | 0            | 22.47           | 0.177            |              |               |       |
|           |                   | 1            | 37           | 22.50           | 0.178            |              |               |       |
|           |                   | 1            | 74           | 22.45           | 0.176            |              |               |       |
|           |                   | 36           | 0            | 21.29           | 0.135            |              |               |       |
|           |                   | 36           | 19           | 20.96           | 0.125            |              |               |       |
|           |                   | 36           | 39           | 21.01           | 0.126            |              |               |       |
|           |                   | 75           | 0            | 21.11           | 0.129            |              |               |       |
|           |                   | 1            | 0            | 22.46           | 0.176            |              |               |       |
| 1         | 37                | 22.51        | 0.178        |                 |                  |              |               |       |
| 1         | 74                | <b>22.68</b> | <b>0.185</b> |                 |                  |              |               |       |
| 36        | 0                 | 20.96        | 0.125        |                 |                  |              |               |       |
| 36        | 19                | 20.84        | 0.121        |                 |                  |              |               |       |
| 36        | 39                | 21.07        | 0.128        |                 |                  |              |               |       |
| 75        | 0                 | 21.04        | 0.127        |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation   | Channel      | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|--------------|--------------|-----------------|------------------|--------------|---------------|-------|
|           |                   |              |              |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band4 | 20 MHz            | QPSK         | 20050        | 1720.0          | 1                | 0            | 23.47         | 0.222 |
|           |                   |              |              |                 | 1                | 49           | 23.55         | 0.226 |
|           |                   |              |              |                 | 1                | 99           | 23.33         | 0.215 |
|           |                   |              |              |                 | 50               | 0            | 22.28         | 0.169 |
|           |                   |              |              |                 | 50               | 25           | 22.15         | 0.164 |
|           |                   |              |              |                 | 50               | 50           | 22.14         | 0.164 |
|           |                   |              | 100          | 0               | 22.19            | 0.166        |               |       |
|           |                   |              | 1            | 0               | <b>23.56</b>     | <b>0.227</b> |               |       |
|           |                   |              | 1            | 49              | 23.20            | 0.209        |               |       |
|           |                   |              | 1            | 99              | 22.99            | 0.199        |               |       |
|           |                   |              | 50           | 0               | 22.37            | 0.173        |               |       |
|           |                   |              | 50           | 25              | 22.16            | 0.164        |               |       |
|           |                   |              | 50           | 50              | 22.00            | 0.158        |               |       |
|           |                   |              | 100          | 0               | 22.16            | 0.164        |               |       |
|           |                   |              | 1            | 0               | 23.18            | 0.208        |               |       |
|           |                   |              | 1            | 49              | 22.81            | 0.191        |               |       |
|           |                   |              | 1            | 99              | 23.02            | 0.200        |               |       |
|           |                   |              | 50           | 0               | 22.10            | 0.162        |               |       |
|           |                   | 50           | 25           | 22.01           | 0.159            |              |               |       |
|           |                   | 50           | 50           | 22.05           | 0.160            |              |               |       |
|           |                   | 100          | 0            | 22.06           | 0.161            |              |               |       |
|           |                   | 1            | 0            | 22.40           | 0.174            |              |               |       |
|           |                   | 1            | 49           | 22.26           | 0.168            |              |               |       |
|           |                   | 1            | 99           | 22.49           | 0.177            |              |               |       |
|           |                   | 50           | 0            | 21.43           | 0.139            |              |               |       |
|           |                   | 50           | 25           | 21.31           | 0.135            |              |               |       |
|           |                   | 50           | 50           | 21.33           | 0.136            |              |               |       |
|           |                   | 100          | 0            | 21.47           | 0.140            |              |               |       |
|           |                   | 1            | 0            | 22.54           | 0.179            |              |               |       |
|           |                   | 1            | 49           | 22.32           | 0.171            |              |               |       |
| 1         | 99                | 21.91        | 0.155        |                 |                  |              |               |       |
| 50        | 0                 | 21.61        | 0.145        |                 |                  |              |               |       |
| 50        | 25                | 21.38        | 0.137        |                 |                  |              |               |       |
| 50        | 50                | 21.34        | 0.136        |                 |                  |              |               |       |
| 100       | 0                 | 21.37        | 0.137        |                 |                  |              |               |       |
| 1         | 0                 | <b>22.67</b> | <b>0.185</b> |                 |                  |              |               |       |
| 1         | 49                | 22.44        | 0.175        |                 |                  |              |               |       |
| 1         | 99                | 22.61        | 0.182        |                 |                  |              |               |       |
| 50        | 0                 | 21.41        | 0.138        |                 |                  |              |               |       |
| 50        | 25                | 21.22        | 0.132        |                 |                  |              |               |       |
| 50        | 50                | 21.24        | 0.133        |                 |                  |              |               |       |
| 100       | 0                 | 21.28        | 0.134        |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band5 | 1.4 MHz           | QPSK       | 20407   | 824.7           | 1                | 0            | 22.97         | 0.198 |
|           |                   |            |         |                 | 1                | 2            | 23.11         | 0.205 |
|           |                   |            |         |                 | 1                | 5            | 22.89         | 0.195 |
|           |                   |            |         |                 | 3                | 0            | 23.08         | 0.203 |
|           |                   |            |         |                 | 3                | 1            | 23.09         | 0.204 |
|           |                   |            |         |                 | 3                | 3            | 22.96         | 0.198 |
|           |                   |            | 6       | 0               | 22.11            | 0.163        |               |       |
|           |                   |            | 1       | 0               | 23.10            | 0.204        |               |       |
|           |                   |            | 1       | 2               | <b>23.15</b>     | <b>0.207</b> |               |       |
|           |                   |            | 1       | 5               | 23.04            | 0.201        |               |       |
|           |                   |            | 3       | 0               | 23.02            | 0.200        |               |       |
|           |                   |            | 3       | 1               | 22.93            | 0.196        |               |       |
|           |                   |            | 3       | 3               | 22.87            | 0.194        |               |       |
|           |                   |            | 6       | 0               | 22.13            | 0.163        |               |       |
|           |                   |            | 1       | 0               | 23.00            | 0.200        |               |       |
|           |                   |            | 1       | 2               | 22.99            | 0.199        |               |       |
|           |                   |            | 1       | 5               | 22.84            | 0.192        |               |       |
|           |                   |            | 3       | 0               | 23.10            | 0.204        |               |       |
|           |                   | 3          | 1       | 22.98           | 0.199            |              |               |       |
|           |                   | 3          | 3       | 22.90           | 0.195            |              |               |       |
|           |                   | 6          | 0       | 22.16           | 0.164            |              |               |       |
|           |                   | 1          | 0       | 22.17           | 0.165            |              |               |       |
|           |                   | 1          | 2       | 22.14           | 0.164            |              |               |       |
|           |                   | 1          | 5       | 22.28           | 0.169            |              |               |       |
|           |                   | 3          | 0       | 21.97           | 0.157            |              |               |       |
|           |                   | 3          | 1       | 21.98           | 0.158            |              |               |       |
|           |                   | 3          | 3       | 21.95           | 0.157            |              |               |       |
|           |                   | 6          | 0       | 20.61           | 0.115            |              |               |       |
|           |                   | 1          | 0       | 22.20           | 0.166            |              |               |       |
|           |                   | 1          | 2       | <b>22.31</b>    | <b>0.170</b>     |              |               |       |
|           |                   | 1          | 5       | 22.20           | 0.166            |              |               |       |
|           |                   | 3          | 0       | 21.55           | 0.143            |              |               |       |
|           |                   | 3          | 1       | 21.63           | 0.146            |              |               |       |
|           |                   | 3          | 3       | 21.52           | 0.142            |              |               |       |
|           |                   | 6          | 0       | 20.52           | 0.113            |              |               |       |
|           |                   | 1          | 0       | 22.05           | 0.160            |              |               |       |
| 1         | 2                 | 22.10      | 0.162   |                 |                  |              |               |       |
| 1         | 5                 | 21.85      | 0.153   |                 |                  |              |               |       |
| 3         | 0                 | 22.05      | 0.160   |                 |                  |              |               |       |
| 3         | 1                 | 22.05      | 0.160   |                 |                  |              |               |       |
| 3         | 3                 | 21.92      | 0.156   |                 |                  |              |               |       |
| 6         | 0                 | 21.18      | 0.131   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band5 | 3 MHz             | QPSK       | 20415   | 825.5           | 1                | 0            | 23.08         | 0.203 |
|           |                   |            |         |                 | 1                | 7            | 22.96         | 0.198 |
|           |                   |            |         |                 | 1                | 14           | 23.09         | 0.204 |
|           |                   |            |         |                 | 8                | 0            | 22.06         | 0.161 |
|           |                   |            |         |                 | 8                | 3            | 22.07         | 0.161 |
|           |                   |            |         |                 | 8                | 7            | 22.15         | 0.164 |
|           |                   |            | 15      | 0               | 21.99            | 0.158        |               |       |
|           |                   |            | 1       | 0               | 23.10            | 0.204        |               |       |
|           |                   |            | 1       | 7               | 22.71            | 0.187        |               |       |
|           |                   |            | 1       | 14              | 22.97            | 0.198        |               |       |
|           |                   |            | 8       | 0               | 22.04            | 0.160        |               |       |
|           |                   |            | 8       | 3               | 22.02            | 0.159        |               |       |
|           |                   |            | 8       | 7               | 22.01            | 0.159        |               |       |
|           |                   |            | 15      | 0               | 21.93            | 0.156        |               |       |
|           |                   |            | 1       | 0               | <b>23.17</b>     | <b>0.207</b> |               |       |
|           |                   |            | 1       | 7               | 22.88            | 0.194        |               |       |
|           |                   |            | 1       | 14              | 22.94            | 0.197        |               |       |
|           |                   |            | 8       | 0               | 21.92            | 0.156        |               |       |
|           |                   | 8          | 3       | 21.95           | 0.157            |              |               |       |
|           |                   | 8          | 7       | 21.98           | 0.158            |              |               |       |
|           |                   | 15         | 0       | 22.03           | 0.160            |              |               |       |
|           |                   | 1          | 0       | 22.09           | 0.162            |              |               |       |
|           |                   | 1          | 7       | 22.16           | 0.164            |              |               |       |
|           |                   | 1          | 14      | 22.29           | 0.169            |              |               |       |
|           |                   | 8          | 0       | 20.64           | 0.116            |              |               |       |
|           |                   | 8          | 3       | 20.47           | 0.111            |              |               |       |
|           |                   | 8          | 7       | 20.43           | 0.110            |              |               |       |
|           |                   | 15         | 0       | 20.56           | 0.114            |              |               |       |
|           |                   | 1          | 0       | 22.27           | 0.169            |              |               |       |
|           |                   | 1          | 7       | 22.13           | 0.163            |              |               |       |
|           |                   | 1          | 14      | <b>22.34</b>    | <b>0.171</b>     |              |               |       |
|           |                   | 8          | 0       | 20.73           | 0.118            |              |               |       |
|           |                   | 8          | 3       | 20.69           | 0.117            |              |               |       |
|           |                   | 8          | 7       | 20.80           | 0.120            |              |               |       |
|           |                   | 15         | 0       | 20.62           | 0.115            |              |               |       |
|           |                   | 1          | 0       | 22.03           | 0.160            |              |               |       |
| 1         | 7                 | 21.66      | 0.147   |                 |                  |              |               |       |
| 1         | 14                | 21.81      | 0.152   |                 |                  |              |               |       |
| 8         | 0                 | 20.76      | 0.119   |                 |                  |              |               |       |
| 8         | 3                 | 20.67      | 0.117   |                 |                  |              |               |       |
| 8         | 7                 | 20.56      | 0.114   |                 |                  |              |               |       |
| 15        | 0                 | 20.64      | 0.116   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|           |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band5 | 5 MHz             | QPSK       | 20425   | 826.5           | 1                | 0            | 22.97         | 0.198 |
|           |                   |            |         |                 | 1                | 12           | 22.75         | 0.188 |
|           |                   |            |         |                 | 1                | 24           | 22.99         | 0.199 |
|           |                   |            |         |                 | 12               | 0            | 22.07         | 0.161 |
|           |                   |            |         |                 | 12               | 6            | 21.92         | 0.156 |
|           |                   |            |         |                 | 12               | 13           | 22.11         | 0.163 |
|           |                   |            | 25      | 0               | 22.14            | 0.164        |               |       |
|           |                   |            | 1       | 0               | 23.04            | 0.201        |               |       |
|           |                   |            | 1       | 12              | 22.71            | 0.187        |               |       |
|           |                   |            | 1       | 24              | <b>23.20</b>     | <b>0.209</b> |               |       |
|           |                   |            | 12      | 0               | 21.95            | 0.157        |               |       |
|           |                   |            | 12      | 6               | 21.95            | 0.157        |               |       |
|           |                   |            | 12      | 13              | 21.98            | 0.158        |               |       |
|           |                   |            | 25      | 0               | 22.04            | 0.160        |               |       |
|           |                   |            | 1       | 0               | 23.06            | 0.202        |               |       |
|           |                   |            | 1       | 12              | 22.84            | 0.192        |               |       |
|           |                   |            | 1       | 24              | 23.18            | 0.208        |               |       |
|           |                   |            | 12      | 0               | 22.15            | 0.164        |               |       |
|           |                   | 12         | 6       | 22.02           | 0.159            |              |               |       |
|           |                   | 12         | 13      | 22.13           | 0.163            |              |               |       |
|           |                   | 25         | 0       | 22.10           | 0.162            |              |               |       |
|           |                   | 1          | 0       | 22.14           | 0.164            |              |               |       |
|           |                   | 1          | 12      | 21.78           | 0.151            |              |               |       |
|           |                   | 1          | 24      | 22.11           | 0.163            |              |               |       |
|           |                   | 12         | 0       | 21.19           | 0.132            |              |               |       |
|           |                   | 12         | 6       | 21.02           | 0.126            |              |               |       |
|           |                   | 12         | 13      | 21.15           | 0.130            |              |               |       |
|           |                   | 25         | 0       | 21.20           | 0.132            |              |               |       |
|           |                   | 1          | 0       | <b>22.40</b>    | <b>0.174</b>     |              |               |       |
|           |                   | 1          | 12      | 21.96           | 0.157            |              |               |       |
|           |                   | 1          | 24      | 22.16           | 0.164            |              |               |       |
|           |                   | 12         | 0       | 21.21           | 0.132            |              |               |       |
|           |                   | 12         | 6       | 21.17           | 0.131            |              |               |       |
|           |                   | 12         | 13      | 21.24           | 0.133            |              |               |       |
|           |                   | 25         | 0       | 21.18           | 0.131            |              |               |       |
|           |                   | 1          | 0       | 22.38           | 0.173            |              |               |       |
| 1         | 12                | 21.84      | 0.153   |                 |                  |              |               |       |
| 1         | 24                | 22.13      | 0.163   |                 |                  |              |               |       |
| 12        | 0                 | 21.13      | 0.130   |                 |                  |              |               |       |
| 12        | 6                 | 21.00      | 0.126   |                 |                  |              |               |       |
| 12        | 11                | 21.12      | 0.129   |                 |                  |              |               |       |
| 25        | 0                 | 21.19      | 0.132   |                 |                  |              |               |       |



| Band      | Channel Bandwidth | Modulation   | Channel      | Frequency (MHz) | RB Configuration |              | Average Power |       |
|-----------|-------------------|--------------|--------------|-----------------|------------------|--------------|---------------|-------|
|           |                   |              |              |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band5 | 10 MHz            | QPSK         | 20450        | 829.0           | 1                | 0            | 23.19         | 0.208 |
|           |                   |              |              |                 | 1                | 24           | 22.92         | 0.196 |
|           |                   |              |              |                 | 1                | 49           | 22.97         | 0.198 |
|           |                   |              |              |                 | 25               | 0            | 22.13         | 0.163 |
|           |                   |              |              |                 | 25               | 12           | 21.98         | 0.158 |
|           |                   |              |              |                 | 25               | 25           | 21.98         | 0.158 |
|           |                   |              | 50           | 0               | 22.12            | 0.163        |               |       |
|           |                   |              | 1            | 0               | <b>23.24</b>     | <b>0.211</b> |               |       |
|           |                   |              | 1            | 24              | 22.87            | 0.194        |               |       |
|           |                   |              | 1            | 49              | 22.86            | 0.193        |               |       |
|           |                   |              | 25           | 0               | 22.13            | 0.163        |               |       |
|           |                   |              | 25           | 12              | 22.05            | 0.160        |               |       |
|           |                   |              | 25           | 25              | 22.01            | 0.159        |               |       |
|           |                   |              | 50           | 0               | 22.09            | 0.162        |               |       |
|           |                   |              | 1            | 0               | 23.10            | 0.204        |               |       |
|           |                   |              | 1            | 24              | 22.90            | 0.195        |               |       |
|           |                   |              | 1            | 49              | 22.85            | 0.193        |               |       |
|           |                   |              | 25           | 0               | 22.05            | 0.160        |               |       |
|           |                   | 25           | 12           | 22.02           | 0.159            |              |               |       |
|           |                   | 25           | 25           | 22.00           | 0.158            |              |               |       |
|           |                   | 50           | 0            | 22.06           | 0.161            |              |               |       |
|           |                   | 1            | 0            | 22.24           | 0.167            |              |               |       |
|           |                   | 1            | 24           | 22.06           | 0.161            |              |               |       |
|           |                   | 1            | 49           | 21.92           | 0.156            |              |               |       |
|           |                   | 25           | 0            | 20.81           | 0.121            |              |               |       |
|           |                   | 25           | 12           | 20.60           | 0.115            |              |               |       |
|           |                   | 25           | 25           | 20.60           | 0.115            |              |               |       |
|           |                   | 50           | 0            | 20.81           | 0.121            |              |               |       |
|           |                   | 1            | 0            | 22.22           | 0.167            |              |               |       |
|           |                   | 1            | 24           | 22.21           | 0.166            |              |               |       |
| 1         | 49                | 22.27        | 0.169        |                 |                  |              |               |       |
| 25        | 0                 | 21.00        | 0.126        |                 |                  |              |               |       |
| 25        | 12                | 20.82        | 0.121        |                 |                  |              |               |       |
| 25        | 25                | 20.76        | 0.119        |                 |                  |              |               |       |
| 50        | 0                 | 20.74        | 0.119        |                 |                  |              |               |       |
| 1         | 0                 | <b>22.44</b> | <b>0.175</b> |                 |                  |              |               |       |
| 1         | 24                | 22.32        | 0.171        |                 |                  |              |               |       |
| 1         | 49                | 22.44        | 0.175        |                 |                  |              |               |       |
| 25        | 0                 | 20.87        | 0.122        |                 |                  |              |               |       |
| 25        | 12                | 20.71        | 0.118        |                 |                  |              |               |       |
| 25        | 25                | 20.70        | 0.117        |                 |                  |              |               |       |
| 50        | 0                 | 20.86        | 0.122        |                 |                  |              |               |       |



| Band       | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|------------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|            |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band12 | 1.4 MHz           | QPSK       | 23017   | 699.7           | 1                | 0            | 22.88         | 0.194 |
|            |                   |            |         |                 | 1                | 2            | 23.09         | 0.204 |
|            |                   |            |         |                 | 1                | 5            | 23.14         | 0.206 |
|            |                   |            |         |                 | 3                | 0            | 23.02         | 0.200 |
|            |                   |            |         |                 | 3                | 1            | 22.97         | 0.198 |
|            |                   |            |         |                 | 3                | 3            | 23.04         | 0.201 |
|            |                   |            | 6       | 0               | 22.17            | 0.165        |               |       |
|            |                   |            | 1       | 0               | <b>23.20</b>     | <b>0.209</b> |               |       |
|            |                   |            | 1       | 2               | 23.13            | 0.206        |               |       |
|            |                   |            | 1       | 5               | 23.10            | 0.204        |               |       |
|            |                   |            | 3       | 0               | 23.10            | 0.204        |               |       |
|            |                   |            | 3       | 1               | 23.15            | 0.207        |               |       |
|            |                   |            | 3       | 3               | 23.12            | 0.205        |               |       |
|            |                   |            | 6       | 0               | 22.19            | 0.166        |               |       |
|            |                   |            | 1       | 0               | 23.08            | 0.203        |               |       |
|            |                   |            | 1       | 2               | 23.00            | 0.200        |               |       |
|            |                   |            | 1       | 5               | 23.08            | 0.203        |               |       |
|            |                   |            | 3       | 0               | 23.04            | 0.201        |               |       |
|            |                   | 3          | 1       | 23.03           | 0.201            |              |               |       |
|            |                   | 3          | 3       | 23.05           | 0.202            |              |               |       |
|            |                   | 6          | 0       | 22.23           | 0.167            |              |               |       |
|            |                   | 1          | 0       | 22.03           | 0.160            |              |               |       |
|            |                   | 1          | 2       | 22.24           | 0.167            |              |               |       |
|            |                   | 1          | 5       | <b>22.37</b>    | <b>0.173</b>     |              |               |       |
|            |                   | 3          | 0       | 21.63           | 0.146            |              |               |       |
|            |                   | 3          | 1       | 21.60           | 0.145            |              |               |       |
|            |                   | 3          | 3       | 21.61           | 0.145            |              |               |       |
|            |                   | 6          | 0       | 20.96           | 0.125            |              |               |       |
|            |                   | 1          | 0       | 22.04           | 0.160            |              |               |       |
|            |                   | 1          | 2       | 22.06           | 0.161            |              |               |       |
|            |                   | 1          | 5       | 22.03           | 0.160            |              |               |       |
|            |                   | 3          | 0       | 21.60           | 0.145            |              |               |       |
|            |                   | 3          | 1       | 21.82           | 0.152            |              |               |       |
|            |                   | 3          | 3       | 21.84           | 0.153            |              |               |       |
|            |                   | 6          | 0       | 20.84           | 0.121            |              |               |       |
|            |                   | 1          | 0       | 21.90           | 0.155            |              |               |       |
| 1          | 2                 | 22.01      | 0.159   |                 |                  |              |               |       |
| 1          | 5                 | 22.32      | 0.171   |                 |                  |              |               |       |
| 3          | 0                 | 21.91      | 0.155   |                 |                  |              |               |       |
| 3          | 1                 | 22.23      | 0.167   |                 |                  |              |               |       |
| 3          | 3                 | 22.09      | 0.162   |                 |                  |              |               |       |
| 6          | 0                 | 20.98      | 0.125   |                 |                  |              |               |       |



| Band       | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |              | Average Power |       |
|------------|-------------------|------------|---------|-----------------|------------------|--------------|---------------|-------|
|            |                   |            |         |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band12 | 3 MHz             | QPSK       | 23025   | 700.5           | 1                | 0            | 23.01         | 0.200 |
|            |                   |            |         |                 | 1                | 7            | 22.88         | 0.194 |
|            |                   |            |         |                 | 1                | 14           | 22.90         | 0.195 |
|            |                   |            |         |                 | 8                | 0            | 22.05         | 0.160 |
|            |                   |            |         |                 | 8                | 3            | 22.02         | 0.159 |
|            |                   |            |         |                 | 8                | 7            | 21.96         | 0.157 |
|            |                   |            | 15      | 0               | 22.01            | 0.159        |               |       |
|            |                   |            | 1       | 0               | 23.07            | 0.203        |               |       |
|            |                   |            | 1       | 7               | 22.85            | 0.193        |               |       |
|            |                   |            | 1       | 14              | 23.02            | 0.200        |               |       |
|            |                   |            | 8       | 0               | 22.09            | 0.162        |               |       |
|            |                   |            | 8       | 3               | 22.04            | 0.160        |               |       |
|            |                   |            | 8       | 7               | 21.97            | 0.157        |               |       |
|            |                   |            | 15      | 0               | 22.01            | 0.159        |               |       |
|            |                   |            | 1       | 0               | 23.20            | 0.209        |               |       |
|            |                   |            | 1       | 7               | 23.22            | 0.210        |               |       |
|            |                   |            | 1       | 14              | <b>23.24</b>     | <b>0.211</b> |               |       |
|            |                   |            | 8       | 0               | 22.09            | 0.162        |               |       |
|            |                   | 8          | 3       | 22.07           | 0.161            |              |               |       |
|            |                   | 8          | 7       | 22.01           | 0.159            |              |               |       |
|            |                   | 15         | 0       | 22.07           | 0.161            |              |               |       |
|            |                   | 1          | 0       | 22.32           | 0.171            |              |               |       |
|            |                   | 1          | 7       | 22.28           | 0.169            |              |               |       |
|            |                   | 1          | 14      | <b>22.35</b>    | <b>0.172</b>     |              |               |       |
|            |                   | 8          | 0       | 20.84           | 0.121            |              |               |       |
|            |                   | 8          | 3       | 20.68           | 0.117            |              |               |       |
|            |                   | 8          | 7       | 20.58           | 0.114            |              |               |       |
|            |                   | 15         | 0       | 20.67           | 0.117            |              |               |       |
|            |                   | 1          | 0       | 22.24           | 0.167            |              |               |       |
|            |                   | 1          | 7       | 22.23           | 0.167            |              |               |       |
|            |                   | 1          | 14      | 22.13           | 0.163            |              |               |       |
|            |                   | 8          | 0       | 20.86           | 0.122            |              |               |       |
|            |                   | 8          | 3       | 20.66           | 0.116            |              |               |       |
|            |                   | 8          | 7       | 20.64           | 0.116            |              |               |       |
|            |                   | 15         | 0       | 20.77           | 0.119            |              |               |       |
|            |                   | 1          | 0       | 22.19           | 0.166            |              |               |       |
| 1          | 7                 | 22.07      | 0.161   |                 |                  |              |               |       |
| 1          | 14                | 22.04      | 0.160   |                 |                  |              |               |       |
| 8          | 0                 | 20.82      | 0.121   |                 |                  |              |               |       |
| 8          | 3                 | 20.74      | 0.119   |                 |                  |              |               |       |
| 8          | 7                 | 20.79      | 0.120   |                 |                  |              |               |       |
| 15         | 0                 | 20.77      | 0.119   |                 |                  |              |               |       |





| Band       | Channel Bandwidth | Modulation   | Channel      | Frequency (MHz) | RB Configuration |              | Average Power |       |
|------------|-------------------|--------------|--------------|-----------------|------------------|--------------|---------------|-------|
|            |                   |              |              |                 | Size             | Offset       | (dBm)         | (W)   |
| LTE Band12 | 5 MHz             | QPSK         | 23035        | 701.5           | 1                | 0            | 22.76         | 0.189 |
|            |                   |              |              |                 | 1                | 12           | 22.76         | 0.189 |
|            |                   |              |              |                 | 1                | 24           | 22.92         | 0.196 |
|            |                   |              |              |                 | 12               | 0            | 21.95         | 0.157 |
|            |                   |              |              |                 | 12               | 6            | 21.94         | 0.156 |
|            |                   |              |              |                 | 12               | 13           | 22.02         | 0.159 |
|            |                   |              | 25           | 0               | 21.89            | 0.155        |               |       |
|            |                   |              | 1            | 0               | 22.96            | 0.198        |               |       |
|            |                   |              | 1            | 12              | 23.05            | 0.202        |               |       |
|            |                   |              | 1            | 24              | 22.97            | 0.198        |               |       |
|            |                   |              | 12           | 0               | 21.89            | 0.155        |               |       |
|            |                   |              | 12           | 6               | 21.89            | 0.155        |               |       |
|            |                   |              | 12           | 13              | 22.02            | 0.159        |               |       |
|            |                   |              | 25           | 0               | 21.99            | 0.158        |               |       |
|            |                   |              | 1            | 0               | 22.93            | 0.196        |               |       |
|            |                   |              | 1            | 12              | 22.86            | 0.193        |               |       |
|            |                   |              | 1            | 24              | <b>23.23</b>     | <b>0.210</b> |               |       |
|            |                   |              | 12           | 0               | 22.08            | 0.161        |               |       |
|            |                   | 12           | 6            | 22.11           | 0.163            |              |               |       |
|            |                   | 12           | 13           | 22.10           | 0.162            |              |               |       |
|            |                   | 25           | 0            | 22.01           | 0.159            |              |               |       |
|            |                   | 1            | 0            | 21.87           | 0.154            |              |               |       |
|            |                   | 1            | 12           | 21.70           | 0.148            |              |               |       |
|            |                   | 1            | 24           | 21.91           | 0.155            |              |               |       |
|            |                   | 12           | 0            | 21.02           | 0.126            |              |               |       |
|            |                   | 12           | 6            | 20.75           | 0.119            |              |               |       |
|            |                   | 12           | 13           | 20.80           | 0.120            |              |               |       |
|            |                   | 25           | 0            | 20.91           | 0.123            |              |               |       |
|            |                   | 1            | 0            | 21.96           | 0.157            |              |               |       |
|            |                   | 1            | 12           | 22.31           | 0.170            |              |               |       |
| 1          | 24                | <b>22.33</b> | <b>0.171</b> |                 |                  |              |               |       |
| 12         | 0                 | 20.94        | 0.124        |                 |                  |              |               |       |
| 12         | 6                 | 20.80        | 0.120        |                 |                  |              |               |       |
| 12         | 13                | 20.84        | 0.121        |                 |                  |              |               |       |
| 25         | 0                 | 21.01        | 0.126        |                 |                  |              |               |       |
| 1          | 0                 | 21.96        | 0.157        |                 |                  |              |               |       |
| 1          | 12                | 21.89        | 0.155        |                 |                  |              |               |       |
| 1          | 24                | 22.18        | 0.165        |                 |                  |              |               |       |
| 12         | 0                 | 20.97        | 0.125        |                 |                  |              |               |       |
| 12         | 6                 | 21.05        | 0.127        |                 |                  |              |               |       |
| 12         | 11                | 21.06        | 0.128        |                 |                  |              |               |       |
| 25         | 0                 | 21.06        | 0.128        |                 |                  |              |               |       |



| Band       | Channel Bandwidth | Modulation | Channel | Frequency (MHz) | RB Configuration |        | Average Power |              |
|------------|-------------------|------------|---------|-----------------|------------------|--------|---------------|--------------|
|            |                   |            |         |                 | Size             | Offset | (dBm)         | (W)          |
| LTE Band12 | 10 MHz            | QPSK       | 23060   | 704.0           | 1                | 0      | 23.13         | 0.206        |
|            |                   |            |         |                 | 1                | 24     | 23.11         | 0.205        |
|            |                   |            |         |                 | 1                | 49     | 22.63         | 0.183        |
|            |                   |            |         |                 | 25               | 0      | 21.81         | 0.152        |
|            |                   |            |         |                 | 25               | 12     | 22.05         | 0.160        |
|            |                   |            |         |                 | 25               | 25     | 21.99         | 0.158        |
|            |                   |            | 23095   | 707.5           | 50               | 0      | 21.89         | 0.155        |
|            |                   |            |         |                 | 1                | 0      | 22.86         | 0.193        |
|            |                   |            |         |                 | 1                | 24     | <b>23.25</b>  | <b>0.211</b> |
|            |                   |            |         |                 | 1                | 49     | 22.60         | 0.182        |
|            |                   |            |         |                 | 25               | 0      | 22.00         | 0.158        |
|            |                   |            |         |                 | 25               | 12     | 21.90         | 0.155        |
|            |                   |            | 23130   | 711.0           | 25               | 25     | 21.79         | 0.151        |
|            |                   |            |         |                 | 50               | 0      | 21.88         | 0.154        |
|            |                   |            |         |                 | 1                | 0      | 23.24         | 0.211        |
|            |                   |            |         |                 | 1                | 24     | 23.10         | 0.204        |
|            |                   |            |         |                 | 1                | 49     | 22.88         | 0.194        |
|            |                   |            |         |                 | 25               | 0      | 22.08         | 0.161        |
|            |                   | 16QAM      | 23060   | 704.0           | 25               | 12     | 21.94         | 0.156        |
|            |                   |            |         |                 | 25               | 25     | 21.97         | 0.157        |
|            |                   |            |         |                 | 50               | 0      | 22.10         | 0.162        |
|            |                   |            |         |                 | 1                | 0      | 22.08         | 0.161        |
|            |                   |            |         |                 | 1                | 24     | 22.15         | 0.164        |
|            |                   |            |         |                 | 1                | 49     | 22.22         | 0.167        |
|            |                   |            | 23095   | 707.5           | 25               | 0      | 20.38         | 0.109        |
|            |                   |            |         |                 | 25               | 12     | 20.63         | 0.116        |
|            |                   |            |         |                 | 25               | 25     | 20.58         | 0.114        |
|            |                   |            |         |                 | 50               | 0      | 20.61         | 0.115        |
|            |                   |            |         |                 | 1                | 0      | 22.21         | 0.166        |
|            |                   |            |         |                 | 1                | 24     | 22.22         | 0.167        |
| 23130      | 711.0             | 1          | 49      | 22.13           | 0.163            |        |               |              |
|            |                   | 25         | 0       | 20.72           | 0.118            |        |               |              |
|            |                   | 25         | 12      | 20.75           | 0.119            |        |               |              |
|            |                   | 25         | 25      | 20.75           | 0.119            |        |               |              |
|            |                   | 50         | 0       | 20.63           | 0.116            |        |               |              |
|            |                   | 1          | 0       | 22.22           | 0.167            |        |               |              |
| 23130      | 711.0             | 1          | 24      | <b>22.27</b>    | <b>0.169</b>     |        |               |              |
|            |                   | 1          | 49      | 21.93           | 0.156            |        |               |              |
|            |                   | 25         | 0       | 20.75           | 0.119            |        |               |              |
|            |                   | 25         | 12      | 20.70           | 0.117            |        |               |              |
|            |                   | 25         | 25      | 20.63           | 0.116            |        |               |              |
|            |                   | 50         | 0       | 20.79           | 0.120            |        |               |              |



**Effective Radiated Power / Equivalent Isotropic Radiated Power**

| Band 2            |            |                 |             |                  |                         |              |              |           |
|-------------------|------------|-----------------|-------------|------------------|-------------------------|--------------|--------------|-----------|
| Channel Bandwidth | Modulation | Frequency (MHz) | Ant. Polar. | Read Level (dBm) | Correction Factor (dBm) | E.I.R.P.     |              | Limit (W) |
|                   |            |                 |             |                  |                         | (dBm)        | (W)          |           |
| 1.4 M             | QPSK       | 1850.7          | H           | 22.22            | -2.26                   | 19.96        | 0.099        | < 2       |
|                   |            |                 | V           | 22.23            | -1.73                   | 20.50        | 0.112        | < 2       |
|                   |            | 1880.0          | H           | 22.17            | -2.46                   | 19.71        | 0.094        | < 2       |
|                   |            |                 | V           | 22.15            | -1.93                   | 20.22        | 0.105        | < 2       |
|                   |            | 1903.9          | H           | 22.09            | -2.64                   | 19.45        | 0.088        | < 2       |
|                   |            |                 | V           | 22.66            | -2.11                   | <b>20.55</b> | <b>0.114</b> | < 2       |
| 16QAM             | H          | 1880.0          | 22.15       | -2.46            | 19.69                   | 0.093        | < 2          |           |
|                   | V          | 22.13           | -1.93       | <b>20.20</b>     | <b>0.105</b>            | < 2          |              |           |
| 3 M               | QPSK       | 1851.5          | H           | 22.52            | -2.26                   | 20.26        | 0.106        | < 2       |
|                   |            |                 | V           | 22.25            | -1.73                   | 20.52        | 0.113        | < 2       |
|                   |            | 1880.0          | H           | 22.65            | -2.45                   | 20.20        | 0.105        | < 2       |
|                   |            |                 | V           | 22.62            | -1.91                   | <b>20.71</b> | <b>0.118</b> | < 2       |
|                   |            | 1908.5          | H           | 22.69            | -2.63                   | 20.06        | 0.101        | < 2       |
|                   |            |                 | V           | 22.71            | -2.09                   | 20.62        | 0.115        | < 2       |
| 16QAM             | H          | 1880.0          | 22.11       | -2.45            | 19.66                   | 0.092        | < 2          |           |
|                   | V          | 22.03           | -1.91       | <b>20.12</b>     | <b>0.103</b>            | < 2          |              |           |
| 5 M               | QPSK       | 1852.5          | H           | 22.18            | -2.26                   | 19.92        | 0.098        | < 2       |
|                   |            |                 | V           | 22.13            | -1.73                   | 20.40        | 0.110        | < 2       |
|                   |            | 1880.0          | H           | 22.61            | -2.44                   | 20.17        | 0.104        | < 2       |
|                   |            |                 | V           | 22.59            | -1.91                   | <b>20.68</b> | <b>0.117</b> | < 2       |
|                   |            | 1907.5          | H           | 22.57            | -2.62                   | 19.95        | 0.099        | < 2       |
|                   |            |                 | V           | 22.63            | -2.09                   | 20.54        | 0.113        | < 2       |
| 16QAM             | H          | 1880.0          | 22.30       | -2.44            | 19.86                   | 0.097        | < 2          |           |
|                   | V          | 21.91           | -1.91       | <b>20.00</b>     | <b>0.100</b>            | < 2          |              |           |
| 10 M              | QPSK       | 1855.0          | H           | 22.19            | -2.26                   | 19.93        | 0.098        | < 2       |
|                   |            |                 | V           | 22.20            | -1.73                   | 20.47        | 0.111        | < 2       |
|                   |            | 1880.0          | H           | 22.61            | -2.43                   | 20.18        | 0.104        | < 2       |
|                   |            |                 | V           | 22.59            | -1.90                   | <b>20.69</b> | <b>0.117</b> | < 2       |
|                   |            | 1905.0          | H           | 22.65            | -2.59                   | 20.06        | 0.101        | < 2       |
|                   |            |                 | V           | 22.66            | -2.06                   | 20.60        | 0.115        | < 2       |
| 16QAM             | H          | 1880.0          | 22.14       | -2.43            | 19.71                   | 0.094        | < 2          |           |
|                   | V          | 21.98           | -1.90       | <b>20.08</b>     | <b>0.102</b>            | < 2          |              |           |
| 15 M              | QPSK       | 1857.5          | H           | 22.18            | -2.26                   | 19.92        | 0.098        | < 2       |
|                   |            |                 | V           | 22.19            | -1.73                   | 20.46        | 0.111        | < 2       |
|                   |            | 1880.0          | H           | 22.44            | -2.41                   | 20.03        | 0.101        | < 2       |
|                   |            |                 | V           | 22.38            | -1.87                   | 20.51        | 0.112        | < 2       |
|                   |            | 1902.5          | H           | 22.69            | -2.55                   | 20.14        | 0.103        | < 2       |
|                   |            |                 | V           | 22.54            | -2.02                   | <b>20.52</b> | <b>0.113</b> | < 2       |
| 16QAM             | H          | 1880.0          | 22.10       | -2.41            | 19.69                   | 0.093        | < 2          |           |
|                   | V          | 22.05           | -1.87       | <b>20.18</b>     | <b>0.104</b>            | < 2          |              |           |
| 20 M              | QPSK       | 1860.0          | H           | 22.20            | -2.26                   | 19.94        | 0.099        | < 2       |
|                   |            |                 | V           | 22.20            | -1.73                   | 20.47        | 0.111        | < 2       |
|                   |            | 1880.0          | H           | 22.67            | -2.40                   | 20.27        | 0.106        | < 2       |
|                   |            |                 | V           | 22.61            | -1.87                   | <b>20.74</b> | <b>0.119</b> | < 2       |
|                   |            | 1900.0          | H           | 22.61            | -2.52                   | 20.09        | 0.102        | < 2       |
|                   |            |                 | V           | 22.56            | -1.99                   | 20.57        | 0.114        | < 2       |
| 16QAM             | H          | 1880.0          | 22.06       | -2.40            | 19.66                   | 0.092        | < 2          |           |
|                   | V          | 21.88           | -1.87       | <b>20.01</b>     | <b>0.100</b>            | < 2          |              |           |



## Radiated Emission

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1850.7 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH18607 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3701.400        | -52.47        | -6.81               | -59.28       | -13.00      | -46.28      | peak   |
| 2   | 5552.100        | -51.01        | -4.11               | -55.12       | -13.00      | -42.12      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1850.7 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH18607 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3701.400        | -52.98        | -6.81               | -59.79       | -13.00      | -46.79      | peak   |
| 2   | 5552.100        | -49.48        | -4.11               | -53.59       | -13.00      | -40.59      | peak   |



|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.72        | -6.68               | -57.40       | -13.00      | -44.40      | peak   |
| 2   | 5640.000        | -50.55        | -3.90               | -54.45       | -13.00      | -41.45      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.45        | -6.68               | -56.13       | -13.00      | -43.13      | peak   |
| 2   | 5640.000        | -50.74        | -3.90               | -54.64       | -13.00      | -41.64      | peak   |



|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1909.3 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH19193 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3818.600        | -49.64        | -6.58               | -56.22       | -13.00      | -43.22      | peak   |
| 2   | 5727.900        | -50.71        | -3.68               | -54.39       | -13.00      | -41.39      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1909.3 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M_QPSK_CH19193 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3818.600        | -50.12        | -6.58               | -56.70       | -13.00      | -43.70      | peak   |
| 2   | 5727.900        | -51.03        | -3.68               | -54.71       | -13.00      | -41.71      | peak   |



|             |                                |                      |                |
|-------------|--------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27                | Test Distance:       | 3 m            |
| Test item:  | Harmonic                       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                       | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.89        | -6.68               | -56.57       | -13.00      | -43.57      | peak   |
| 2   | 5640.000        | -51.69        | -3.90               | -55.59       | -13.00      | -42.59      | peak   |

|             |                                |                      |                |
|-------------|--------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27                | Test Distance:       | 3 m            |
| Test item:  | Harmonic                       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                       | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_1.4 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                       |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.23        | -6.68               | -56.91       | -13.00      | -43.91      | peak   |
| 2   | 5640.000        | -50.90        | -3.90               | -54.80       | -13.00      | -41.80      | peak   |



|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1851.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH18615 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3703.000        | -48.70        | -6.81               | -55.51       | -13.00      | -42.51      | peak   |
| 2   | 5554.500        | -50.34        | -4.10               | -54.44       | -13.00      | -41.44      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1851.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH18615 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3703.000        | -50.57        | -6.81               | -57.38       | -13.00      | -44.38      | peak   |
| 2   | 5554.500        | -51.12        | -4.10               | -55.22       | -13.00      | -42.22      | peak   |





|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.23        | -6.68               | -55.91       | -13.00      | -42.91      | peak   |
| 2   | 5640.000        | -51.20        | -3.90               | -55.10       | -13.00      | -42.10      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.25        | -6.68               | -56.93       | -13.00      | -43.93      | peak   |
| 2   | 5640.000        | -50.30        | -3.90               | -54.20       | -13.00      | -41.20      | peak   |



|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1908.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH19185 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3817.000        | -49.19        | -6.58               | -55.77       | -13.00      | -42.77      | peak   |
| 2   | 5725.500        | -50.53        | -3.68               | -54.21       | -13.00      | -41.21      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1908.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M_QPSK_CH19185 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3817.000        | -49.54        | -6.58               | -56.12       | -13.00      | -43.12      | peak   |
| 2   | 5725.500        | -49.53        | -3.68               | -53.21       | -13.00      | -40.21      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.93        | -6.68               | -56.61       | -13.00      | -43.61      | peak   |
| 2   | 5640.000        | -51.34        | -3.90               | -55.24       | -13.00      | -42.24      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_3 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.71        | -6.68               | -56.39       | -13.00      | -43.39      | peak   |
| 2   | 5640.000        | -51.41        | -3.90               | -55.31       | -13.00      | -42.31      | peak   |



|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1852.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH18625 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3705.000        | -47.98        | -6.81               | -54.79       | -13.00      | -41.79      | peak   |
| 2   | 5557.500        | -48.88        | -4.10               | -52.98       | -13.00      | -39.98      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1852.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH18625 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3705.000        | -49.50        | -6.81               | -56.31       | -13.00      | -43.31      | peak   |
| 2   | 5557.500        | -49.03        | -4.10               | -53.13       | -13.00      | -40.13      | peak   |



|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.56        | -6.68               | -56.24       | -13.00      | -43.24      | peak   |
| 2   | 5640.000        | -50.01        | -3.90               | -53.91       | -13.00      | -40.91      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                    | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.17        | -6.68               | -55.85       | -13.00      | -42.85      | peak   |
| 2   | 5640.000        | -50.04        | -3.90               | -53.94       | -13.00      | -40.94      | peak   |



|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1907.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH19175 |                      |                |
| Ant.Polar.: | Horizontal                  |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3815.000        | -49.26        | -6.58               | -55.84       | -13.00      | -42.84      | peak   |
| 2   | 5722.500        | -50.48        | -3.68               | -54.16       | -13.00      | -41.16      | peak   |

|             |                             |                      |                |
|-------------|-----------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27             | Test Distance:       | 3 m            |
| Test item:  | Harmonic                    | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1907.5 MHz                  | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M_QPSK_CH19175 |                      |                |
| Ant.Polar.: | Vertical                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3815.000        | -49.36        | -6.58               | -55.94       | -13.00      | -42.94      | peak   |
| 2   | 5722.500        | -50.14        | -3.68               | -53.82       | -13.00      | -40.82      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -51.14        | -6.68               | -57.82       | -13.00      | -44.82      | peak   |
| 2   | 5640.000        | -52.08        | -3.90               | -55.98       | -13.00      | -42.98      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_5 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.19        | -6.68               | -56.87       | -13.00      | -43.87      | peak   |
| 2   | 5640.000        | -50.81        | -3.90               | -54.71       | -13.00      | -41.71      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1855 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH18650 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3710.000        | -49.44        | -6.79               | -56.23       | -13.00      | -43.23      | peak   |
| 2   | 5565.000        | -47.81        | -4.08               | -51.89       | -13.00      | -38.89      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1855 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH18650 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3710.000        | -48.87        | -6.79               | -55.66       | -13.00      | -42.66      | peak   |
| 2   | 5565.000        | -49.65        | -4.08               | -53.73       | -13.00      | -40.73      | peak   |





|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.27        | -6.68               | -55.95       | -13.00      | -42.95      | peak   |
| 2   | 5640.000        | -50.26        | -3.90               | -54.16       | -13.00      | -41.16      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.57        | -6.68               | -56.25       | -13.00      | -43.25      | peak   |
| 2   | 5640.000        | -50.59        | -3.90               | -54.49       | -13.00      | -41.49      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1905 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH19150 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3810.000        | -48.74        | -6.59               | -55.33       | -13.00      | -42.33      | peak   |
| 2   | 5715.000        | -50.31        | -3.71               | -54.02       | -13.00      | -41.02      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1905 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M_QPSK_CH19150 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3810.000        | -48.64        | -6.59               | -55.23       | -13.00      | -42.23      | peak   |
| 2   | 5715.000        | -49.98        | -3.71               | -53.69       | -13.00      | -40.69      | peak   |



|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.96        | -6.68               | -56.64       | -13.00      | -43.64      | peak   |
| 2   | 5640.000        | -50.89        | -3.90               | -54.79       | -13.00      | -41.79      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_10 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.06        | -6.68               | -56.74       | -13.00      | -43.74      | peak   |
| 2   | 5640.000        | -51.23        | -3.90               | -55.13       | -13.00      | -42.13      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1857.5 MHz                   | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH18675 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3715.000        | -48.39        | -6.78               | -55.17       | -13.00      | -42.17      | peak   |
| 2   | 5572.500        | -49.65        | -4.06               | -53.71       | -13.00      | -40.71      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1857.5 MHz                   | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH18675 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3715.000        | -48.17        | -6.78               | -54.95       | -13.00      | -41.95      | peak   |
| 2   | 5572.500        | -49.52        | -4.06               | -53.58       | -13.00      | -40.58      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -48.05        | -6.68               | -54.73       | -13.00      | -41.73      | peak   |
| 2   | 5640.000        | -50.08        | -3.90               | -53.98       | -13.00      | -40.98      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.59        | -6.68               | -56.27       | -13.00      | -43.27      | peak   |
| 2   | 5640.000        | -50.30        | -3.90               | -54.20       | -13.00      | -41.20      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1902.5 MHz                   | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH19125 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3805.000        | -49.36        | -6.60               | -55.96       | -13.00      | -42.96      | peak   |
| 2   | 5707.500        | -49.75        | -3.73               | -53.48       | -13.00      | -40.48      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1902.5 MHz                   | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M_QPSK_CH19125 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3805.000        | -49.56        | -6.60               | -56.16       | -13.00      | -43.16      | peak   |
| 2   | 5707.500        | -49.68        | -3.73               | -53.41       | -13.00      | -40.41      | peak   |



|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.37        | -6.68               | -56.05       | -13.00      | -43.05      | peak   |
| 2   | 5640.000        | -51.57        | -3.90               | -55.47       | -13.00      | -42.47      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_15 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.12        | -6.68               | -56.80       | -13.00      | -43.80      | peak   |
| 2   | 5640.000        | -51.29        | -3.90               | -55.19       | -13.00      | -42.19      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1860 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH18700 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3720.000        | -48.29        | -6.77               | -55.06       | -13.00      | -42.06      | peak   |
| 2   | 5580.000        | -49.16        | -4.04               | -53.20       | -13.00      | -40.20      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1860 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH18700 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3720.000        | -48.54        | -6.77               | -55.31       | -13.00      | -42.31      | peak   |
| 2   | 5580.000        | -49.41        | -4.04               | -53.45       | -13.00      | -40.45      | peak   |





|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -48.80        | -6.68               | -55.48       | -13.00      | -42.48      | peak   |
| 2   | 5640.000        | -50.20        | -3.90               | -54.10       | -13.00      | -41.10      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH18900 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.04        | -6.68               | -55.72       | -13.00      | -42.72      | peak   |
| 2   | 5640.000        | -50.51        | -3.90               | -54.41       | -13.00      | -41.41      | peak   |



|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1900 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH19100 |                      |                |
| Ant.Polar.: | Horizontal                   |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3800.000        | -49.40        | -6.60               | -56.00       | -13.00      | -43.00      | peak   |
| 2   | 5700.000        | -50.46        | -3.74               | -54.20       | -13.00      | -41.20      | peak   |

|             |                              |                      |                |
|-------------|------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                     | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1900 MHz                     | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M_QPSK_CH19100 |                      |                |
| Ant.Polar.: | Vertical                     |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3800.000        | -49.32        | -6.60               | -55.92       | -13.00      | -42.92      | peak   |
| 2   | 5700.000        | -50.70        | -3.74               | -54.44       | -13.00      | -41.44      | peak   |



|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Horizontal                    |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -49.61        | -6.68               | -56.29       | -13.00      | -43.29      | peak   |
| 2   | 5640.000        | -51.37        | -3.90               | -55.27       | -13.00      | -42.27      | peak   |

|             |                               |                      |                |
|-------------|-------------------------------|----------------------|----------------|
| Standard:   | Part 22H&24E&27               | Test Distance:       | 3 m            |
| Test item:  | Harmonic                      | Power:               | AC 120 V/60 Hz |
| Frequency:  | 1880 MHz                      | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | 4 G_Band 2_20 M-16QAM_CH18900 |                      |                |
| Ant.Polar.: | Vertical                      |                      |                |

| No. | Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|
| 1   | 3760.000        | -50.30        | -6.68               | -56.98       | -13.00      | -43.98      | peak   |
| 2   | 5640.000        | -50.99        | -3.90               | -54.89       | -13.00      | -41.89      | peak   |