

# FCC Test Report

Report No.: AGC01689210903FE07

**FCC ID** : 2A2UU-L200

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : POS terminal

**BRAND NAME** : YOCO, PayclipL, Kozen, Kobile, Dejavoo, MPOS, Mswipe, YOCO Khumo

**MODEL NAME** : L200, YOCO Smart, Clip Pro2, P5, P0513

**APPLICANT** : Shanghai Xiangcheng Communication Technology Co., LTD

**DATE OF ISSUE** : Oct. 27, 2021

**STANDARD(S)** : FCC Part 22 Rules  
FCC Part 24 Rules  
FCC Part 27 Rules  
FCC Part 90 Rules

**REPORT VERSION** : V1.0



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**REPORT REVISE RECORD**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Oct. 27, 2021 | Valid         | Initial Release |

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**1. GENERAL INFORMATION**

|                                  |  |
|----------------------------------|--|
| <b>Applicant</b>                 | Shanghai Xiangcheng Communication Technology Co.,LTD   |
| <b>Address</b>                   | Room 401, Building 5, No.3000 Longdong Avenue, Pudong New District, Shanghai 201203 CHINA  |
| <b>Manufacturer</b>              | Shanghai Xiangcheng Communication Technology Co.,LTD   |
| <b>Address</b>                   | Room 401, Building 5, No.3000 Longdong Avenue, Pudong New District, Shanghai 201203 CHINA  |
| <b>Factory</b>                   | Sichuan Xiangcheng Intelligent Technology Co., Ltd.  |
| <b>Address</b>                   | Factory No. 2, Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province |
| <b>Product Designation</b>       | POS terminal   |
| <b>Brand Name</b>                | YOCO, PayclipL, Kozen, Kobile, Dejavoo, MPOS, Mswipe, YOCO Khumo   |
| <b>Test Model</b>                | L200   |
| <b>Series Model</b>              | YOCO Smart, Clip Pro2, P5, P0513   |
| <b>Declaration of Difference</b> | All the same except the model name and brand name.   |
| <b>Date of test</b>              | Sep. 26, 2021~Oct. 27, 2021  |
| <b>Deviation</b>                 | No any deviation from the test method.   |
| <b>Condition of Test Sample</b>  | Normal   |

**WE HEREBY CERTIFY THAT:**

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22, 24, 27and 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Eder Zhan  
(Project Engineer)

Oct. 27, 2021

Reviewed By

Calvin Liu  
(Reviewer)

Oct. 27, 2021

Approved By

Max Zhang  
Authorized Officer

Oct. 27, 2021

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## 2. PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

A major technical description of EUT is described as following:

|                               |   |                                     |  |  |
|-------------------------------|---|-------------------------------------|--|--|
| Product Designation:          | POS terminal  |                                     |  |  |
| Hardware Version:             | V1.1A   |                                     |  |  |
| Software Version:             | V1.0  |                                     |  |  |
| Radio System Type:            | LTE FUNCTION  |                                     |  |  |
| Frequency Bands:              | <input checked="" type="checkbox"/> FDD Band 2 <input type="checkbox"/> FDD Band 4 <input type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 7<br><input checked="" type="checkbox"/> FDD Band 12 <input type="checkbox"/> FDD Band 13 <input checked="" type="checkbox"/> FDD Band 17 <input checked="" type="checkbox"/> FDD Band 25<br><input checked="" type="checkbox"/> FDD Band 26 <input checked="" type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input checked="" type="checkbox"/> TDD Band 41<br><input type="checkbox"/> FDD Band 66 <input type="checkbox"/> FDD Band 71 (U.S. Bands)<br><input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input type="checkbox"/> FDD Band 20<br><input checked="" type="checkbox"/> FDD Band 28 <input checked="" type="checkbox"/> FDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 41<br>(Non-U.S. Bands) |                                     |  |  |
| Transmission Frequency Range: | LTE-Band 2  | 1850.7 MHz – 1909.3 MHz---(1.4MHz)  |  |  |
|                               |   | 1851.5 MHz – 1908.5 MHz---(3.0MHz)  |  |  |
|                               |   | 1852.5 MHz – 1907.5 MHz---(5.0MHz)  |  |  |
|                               |   | 1855.0 MHz – 1905.0 MHz---(10.0MHz) |  |  |
|                               |   | 1857.5 MHz – 1902.5 MHz---(15.0MHz) |  |  |
|                               |   | 1860.0 MHz – 1900.0 MHz---(20.0MHz) |  |  |
|                               | LTE-Band 4  | 1710.7 MHz – 1754.3 MHz---(1.4MHz)  |  |  |
|                               |   | 1711.5 MHz – 1753.5 MHz---(3.0MHz)  |  |  |
|                               |   | 1712.5 MHz – 1752.5 MHz---(5.0MHz)  |  |  |
|                               |   | 1715.0 MHz – 1750.0 MHz---(10.0MHz) |  |  |
|                               |   | 1717.5 MHz – 1747.5 MHz---(15.0MHz) |  |  |
|                               |   | 1720.0 MHz – 1745.0 MHz---(20.0MHz) |  |  |
|                               | LTE-Band 5  | 824.7 MHz – 848.3 MHz---(1.4MHz)    |  |  |
|                               |   | 825.5 MHz – 847.7 MHz---(3.0MHz)    |  |  |
|                               |   | 826.5 MHz – 846.5 MHz---(5.0MHz)    |  |  |
|                               |   | 829.0 MHz – 844.0 MHz---(10.0MHz)   |  |  |
|                               | LTE-Band 7  | 2502.5 MHz – 2567.5 MHz---(5.0MHz)  |  |  |
|                               |   | 2505.0 MHz – 2565.0 MHz---(10.0MHz) |  |  |
|                               |   | 2507.5 MHz – 2562.5 MHz---(15.0MHz) |  |  |
|                               |   | 2510.0 MHz – 2560.0 MHz---(20.0MHz) |  |  |
|                               | LTE-Band 12   | 699.7 MHz – 715.3 MHz---(1.4MHz)    |  |  |

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|                         |                  |                                     |                  |                  |
|-------------------------|------------------|-------------------------------------|------------------|------------------|
|                         |                  | 700.5 MHz – 714.5 MHz---(3.0MHz)    |                  |                  |
|                         |                  | 701.5 MHz – 713.5 MHz---(5.0MHz)    |                  |                  |
|                         |                  | 704.0 MHz – 711.0 MHz---(10.0MHz)   |                  |                  |
|                         | LTE-Band 17      | 706.5 MHz – 713.5 MHz---(5.0MHz)    |                  |                  |
|                         |                  | 709.0 MHz – 711.0 MHz---(10.0MHz)   |                  |                  |
|                         | LTE-Band 25      | 1850.7 MHz – 1914.3 MHz---(1.4MHz)  |                  |                  |
|                         |                  | 1851.5 MHz – 1913.5 MHz---(3.0MHz)  |                  |                  |
|                         |                  | 1852.5 MHz – 1912.5 MHz---(5.0MHz)  |                  |                  |
|                         |                  | 1855.0 MHz – 1910.0 MHz---(10.0MHz) |                  |                  |
|                         |                  | 1857.5 MHz – 1907.5 MHz---(15.0MHz) |                  |                  |
|                         |                  | 1860.0 MHz – 1905.0 MHz---(20.0MHz) |                  |                  |
|                         | LTE-Band 26A     | 824.7 MHz –848.3 MHz---(1.4MHz)     |                  |                  |
|                         |                  | 825.5 MHz –847.5 MHz---(3.0MHz)     |                  |                  |
|                         |                  | 826.5 MHz-846.5 MHz ---(5.0MHz)     |                  |                  |
|                         |                  | 829 MHz-844 MHz---(10.0MHz)         |                  |                  |
|                         |                  | 831.5 MHz-841.5 MHz ---(15.0MHz)    |                  |                  |
|                         | LTE-Band 26B     | 814.7 MHz-823.3 MHz ---(1.4MHz)     |                  |                  |
|                         |                  | 815.5 MHz -822.5 MHz---(3.0MHz)     |                  |                  |
|                         |                  | 816.5 MHz -821.5 MHz---(5.0MHz)     |                  |                  |
|                         |                  | 819.0 MHz -819.0 MHz---(10.0MHz)    |                  |                  |
|                         |                  | 821.5 MHz -821.5 MHz ---(15.0MHz)   |                  |                  |
|                         | LTE-Band 38      | 2572.5 MHz-2617.5 MHz ---(5.0MHz)   |                  |                  |
|                         |                  | 2575 MHz-2615MHz---(10.0MHz)        |                  |                  |
|                         |                  | 2577.5 MHz-2612.5 MHz ---(15.0MHz)  |                  |                  |
|                         |                  | 2580 MHz-2610 MHz---(20.0MHz)       |                  |                  |
|                         | LTE-Band 41      | 2498.5 MHz –2687.5 MHz---(5.0MHz)   |                  |                  |
|                         |                  | 2501.0 MHz –2685.0 MHz---(10.0MHz)  |                  |                  |
|                         |                  | 2503.5 MHz –2682.5 MHz---(15.0MHz)  |                  |                  |
|                         |                  | 2506.0 MHz –2680.0 MHz---(20.0MHz)  |                  |                  |
| Antenna Type:           | PIFA Antenna     |                                     |                  |                  |
| Type of Modulation:     | QPSK/16QAM       |                                     |                  |                  |
| Antenna gain:           | Band 2: 2.00dBi  | Band 4: 1.78dBi                     | Band 5:2.00dBi   | Band 7:1.33dBi   |
|                         | Band 12:1.25dBi  | Band 17:1.27dBi                     | Band 25: 1.35dBi | Band 26: 1.40dBi |
|                         | Band 38: 1.33dBi | Band 41: 1.31dBi                    |                  |                  |
| Diversity Antenna gain: | Band 2: 1.85dBi  | Band 4: 1.70dBi                     | Band 5: 1.85dBi  | Band 7: 1.22dBi  |

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|   |                                     |                  |                  |                  |
|---|-------------------------------------|------------------|------------------|------------------|
|   | Band 12: 1.19dBi                    | Band 17: 1.20dBi | Band 25: 1.30dBi | Band 26: 1.35dBi |
|   | Band 38: 1.21dBi                    | Band 41: 1.25dBi |                  |                  |
| Power Supply:   | DC 3.80V by battery                 |                  |                  |                  |
| Category  | NB1                                 |                  |                  |                  |
| Deployment  | Stand-alone                         |                  |                  |                  |
| Sub-carrier spacing   | 3.75KHz, 15KHz                      |                  |                  |                  |
| Ntones  | Single, Multi-tone                  |                  |                  |                  |
| Dual Card:  | WCDMA/LTE Card Slot                 |                  |                  |                  |
| Power Class:  | 3                                   |                  |                  |                  |
| Extreme Vol. Limits:  | DC3.23V to 4.35V (Normal: DC 3.80V) |                  |                  |                  |
| Extreme Temp. Tolerance   | -30°C to +50°C                      |                  |                  |                  |
| Operating Temp  | -10°C to +40°C                      |                  |                  |                  |
| <b>Note1:</b> The High Voltage DC 4.35V and Low Voltage DC3.80V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage. |                                     |                  |                  |                  |

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## 2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A2UU-L200**, filing to comply with the FCC Part 22, Part 24 and Part 27, Part 90 requirements.

## 2.3 TEST METHODOLOGY

The tests were performed according to following standards:

| No. | Identity            | Document Title  |
|-----|---------------------|---|
| 1   | 47 CFR FCC Part 2   | Frequency allocations and radio treaty matters, general rules and regulations.                    |
| 2   | 47 CFR FCC Part 22  | Public Mobile Services.   |
| 3   | 47 CFR FCC Part 24  | Personal Communications Services.   |
| 4   | 47 CFR FCC Part 27  | Miscellaneous Wireless Communications Services.   |
| 5   | 47 CFR FCC Part 90  | Private Land Mobile Radio Services.   |
| 6   | ANSI C63.26-2015    | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services |
| 7   | ANSI/TIA-603-E-2016 | Land Mobile FM or PM Communications Equipment Measurement and Performance Standards               |
| 8   | KDB 971168          | D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.               |

## 2.4 DEVICE CAPABILITIES

This device contains the following capabilities:

850/1900 GSM/GPRS/EGPRS, 850/1700/1900 WCDMA/HSPA, Multi-Band LTE, 802.11 b/g/n for WLAN, 802.11 a/n/ac for UNII, Bluetooth (1X, EDR, LE), GPS, NFC.

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

LTE Band 12 (698 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz).

Therefore, test data provided in this report covers Band 17 as well as Band 12.

LTE Band 26 (814.7-849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz).

Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

LTE Band 66 (1710-1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz).

Therefore, test data provided in this report covers Band 4 as well as Band 66.

LTE Band 25 (1850-1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz).

Therefore, test data provided in this report covers Band 2 as well as Band 25.

LTE Band 41 (2496-2690 MHz) overlaps the entire frequency range of LTE Band 38 (2560 - 2620 MHz).

Therefore, test data provided in this report covers Band 41 as well as Band 38.

The above inclusion relationship is only a statement of the frequency coverage between the LTE working bands, and the actual supported frequency bands are subject to the reported data.

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For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

## 2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

## 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 2.7 EMISSION DESIGNATOR

### GSM Emission Designator

**Emission Designator = 249KGXW**

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

### WCDMA Emission Designator

**Emission Designator = 4M17F9W**

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

### QAM Modulation

**Emission Designator = 4M48W7D**

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

### EDGE Emission Designator

**Emission Designator = 249KG7W**

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

### QPSK Modulation

**Emission Designator = 4M48G7D**

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

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### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

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

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 ENVIRONMENTAL CONDITIONS

|  | <b>NORMAL CONDITIONS</b> | <b>EXTREME CONDITIONS</b> |
|--|--------------------------|---------------------------|
| Temperature range  | 15~35°C                  | -30°C~50°C                |
| Humidity range   | 20 % to 75 %.            | 20 % to 75 %.             |
| Pressure range   | 86-106kPa                | 86-106kPa                 |
| Power supply   | DC3.80V                  | DC3.23V or 4.35V          |
| Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer. |                          |                           |

### 3.4 MEASUREMENT UNCERTAINTY

| <b>Test</b>                             | <b>Measurement Uncertainty</b> | <b>Notes</b> |
|---|--------------------------------|--------------|
| Transmitter power conducted             | ±0.57 dB                       | (1)          |
| Transmitter power Radiated              | ±2.20 dB                       | (1)          |
| Conducted spurious emission 9KHz-40 GHz | ±2.20 dB                       | (1)          |
| Occupied Bandwidth                      | ±0.01ppm                       | (1)          |
| Radiated Emission 30~1000MHz            | ±4.10dB                        | (1)          |
| Radiated Emission Above 1GHz            | ±4.32dB                        | (1)          |
| Conducted Disturbance0.15~30MHz         | ±3.20dB                        | (1)          |
| Radio Frequency                         | ± 6.5 x 10-8                   | (1)          |
| RF Power, Conducted                     | ± 0.9 dB                       | (1)          |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### 3.5 LIST OF TEST EQUIPMENT

| Equipment                    | Manufacturer | Model        | S/N         | Cal. Date     | Cal. Due      |
|------------------------------|--------------|--------------|-------------|---------------|---------------|
| TEST RECEIVER                | R&S          | ESPI         | 101206      | May 11, 2021  | May 10, 2022  |
| LISN                         | R&S          | ESH2-Z5      | 100086      | Jun. 09, 2021 | Jun. 08, 2022 |
| TEST RECEIVER                | R&S          | ESCI         | 10096       | Apr. 14, 2021 | Apr. 13, 2022 |
| EXA Signal Analyzer          | Agilent      | N9010A       | MY53470504  | Dec. 07, 2020 | Dec. 06, 2021 |
| EXA Signal Analyzer          | Agilent      | N9020B       | MY56101792  | Jun. 09, 2021 | Jun. 08, 2022 |
| Horn antenna                 | SCHWARZBECK  | BBHA 9170    | #768        | Oct. 20, 2019 | Oct. 19, 2022 |
| preamplifier                 | ChengYi      | EMC184045SE  | 980508      | Oct. 29, 2021 | Oct. 28, 2023 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117         | 00034609    | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier       | SCHWARZBECK  | 00073        | BBHA 9120 J | -             | -             |
| ANTENNA                      | SCHWARZBECK  | VULB9168     | D69250      | Apr. 28, 2021 | Apr. 27, 2023 |
| SIGNAL ANALYZER              | Agilent      | N9020A       | MY52090123  | Sep. 06, 2021 | Sep. 05, 2022 |
| USB Wideband Power Sensor    | Agilent      | U2021XA      | MY54110007  | May 11, 2021  | May 10, 2025  |
| Wireless communicationtest   | R&S          | CMW500       | 120909      | Sep. 06, 2021 | Sep. 05, 2022 |
| Power Splitter               | Agilent      | 11636A       | 34          | Jun.08, 2021  | Jun.07, 2022  |
| Attenuator                   | JFW          | 50FHC-006-50 | N/A         | Jun.08, 2021  | Jun.07, 2022  |

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## 4. SYSTEM TEST CONFIGURATION

### 4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 4.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

### 4.3 CONFIGURATION OF EUT SYSTEM

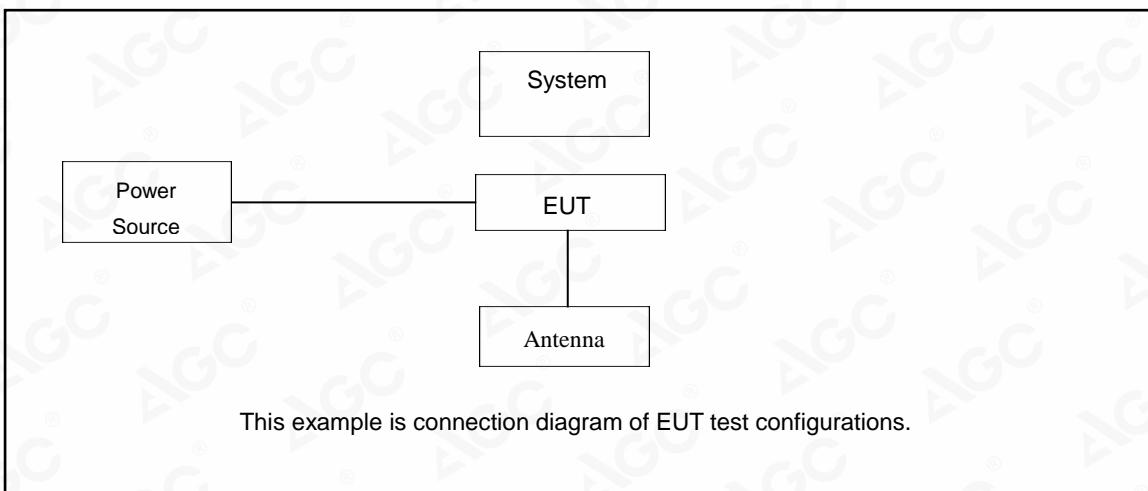


Table 2-1 Equipment Used in EUT System

### 4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- Test Accessories Come From The Laboratory
- Test Accessories Come From The Manufacturer

| Item | Equipment    | Model No. | Identifier         | Note |
|------|--------------|-----------|--------------------|------|
| 1    | POS terminal | L200      | FCC ID: 2A2UU-L200 | EUT  |
| 3    | Battery      | BT-L200   | DC 3.80V 2950mAh   | AE   |
| 3    | USB Cable    | NA        | NA                 | AE   |

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## 5. SUMMARY OF TEST RESULTS

### 5.1 TEST CONDITION : CONDUCTED TEST

| Item | Test Description  | FCC Rules   | Result |
|------|---|---|--------|
| 1    | Occupied Bandwidth  | §2.1049   | Pass   |
| 2    | Band Edge / Spurious and Harmonic Emissions at Antenna Terminal | §2.1051, §22.917(a), §90.691<br>§27.53(g), §27.53(h), §24.238(a),<br>§27.53(m)(4) | Pass   |
| 3    | Conducted Output Power  | §2.1046, §90.635  | Pass   |
| 4    | Frequency stability / variation of ambient temperature          | §2.1055, §90.213, §22.355,<br>§27.54, §24.235                                     | Pass   |
| 5    | Peak- to- Average Ratio   | 27.50(d)(5), §24.232(d)   | Pass   |

### 5.2 TEST CONDITION : RADIATED TEST

| Item | Test Description  | FCC Rules  | Result |
|------|---|--|--------|
| 1    | Effective Radiated Power<br>Equivalent Isotropic Radiated Power | §90.635, §22.913(a)(5), §27.50(c)(10),<br>§27.50(h)(2), §27.50(d)(4), §24.232(c)     | Pass   |
| 2    | Radiated Spurious and Harmonic Emissions                        | §2.1053, §90.691, §22.917(a),<br>§27.53(g), § 27.53(m) (4), §27.53(h),<br>§24.238(a) | Pass   |

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## 6. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMW 500) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both LTE frequency band.

The worst condition was recorded in the test report if no other modes test data.

| LTE Band 2 Channel and Frequency List |                         |        |        |         |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                 | 18700  | 18900  | 19100   |
|                                       | Frequency               | 1860   | 1880   | 1900    |
| 15                                    | Channel                 | 18675  | 18900  | 19125   |
|                                       | Frequency               | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                 | 18650  | 18900  | 19150   |
|                                       | Frequency               | 1855   | 1880   | 1905    |
| 5                                     | Channel                 | 18625  | 18900  | 19175   |
|                                       | Frequency               | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                 | 18615  | 18900  | 19185   |
|                                       | Frequency               | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                 | 18607  | 18900  | 19193   |
|                                       | Frequency               | 1850.7 | 1880   | 1909.3  |

| LTE Band 4 Channel and Frequency List |                         |        |        |         |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                 | 20050  | 20175  | 20300   |
|                                       | Frequency               | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                 | 20025  | 20175  | 20325   |
|                                       | Frequency               | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                 | 20000  | 20175  | 20350   |
|                                       | Frequency               | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                 | 19975  | 20175  | 20375   |
|                                       | Frequency               | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                 | 19965  | 20175  | 20385   |
|                                       | Frequency               | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                 | 19957  | 20175  | 20393   |
|                                       | Frequency               | 1710.7 | 1732.5 | 1754.3  |

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| LTE Band 5 Channel and Frequency List |                         |        |        |         |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                 | 20450  | 20525  | 20600   |
|                                       | Frequency               | 829    | 836.5  | 844     |
| 5                                     | Channel                 | 20425  | 20525  | 20625   |
|                                       | Frequency               | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                 | 20415  | 20525  | 20635   |
|                                       | Frequency               | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                 | 20407  | 20525  | 20643   |
|                                       | Frequency               | 824.7  | 836.5  | 848.3   |

| LTE Band 7 Channel and Frequency List |                         |        |        |         |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                 | 20850  | 21100  | 21350   |
|                                       | Frequency               | 2510   | 2535   | 2560    |
| 15                                    | Channel                 | 20825  | 21100  | 21375   |
|                                       | Frequency               | 2507.5 | 2535   | 2562.5  |
| 10                                    | Channel                 | 20800  | 21100  | 21400   |
|                                       | Frequency               | 2505   | 2535   | 2565    |
| 5                                     | Channel                 | 20775  | 21100  | 21425   |
|                                       | Frequency               | 2502.5 | 2535   | 2567.5  |

| LTE Band 12 Channel and Frequency List |                         |        |        |         |
|--|-------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                 | 23060  | 23095  | 23130   |
|  | Frequency               | 704    | 707.5  | 711     |
| 5                                      | Channel                 | 23035  | 23095  | 23155   |
|  | Frequency               | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                 | 23025  | 23095  | 23165   |
|  | Frequency               | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                 | 23017  | 23095  | 23173   |
|  | Frequency               | 699.7  | 707.5  | 715.3   |

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| LTE Band 17 Channel and Frequency List |                         |        |        |         |
|--|-------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                 | 23780  | 23790  | 23800   |
|  | Frequency               | 709    | 710    | 711     |
| 5                                      | Channel                 | 23755  | 23790  | 23825   |
|  | Frequency               | 706.5  | 710    | 713.5   |

| LTE Band 25 Channel and Frequency List |                         |        |        |         |
|--|-------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                 | 26140  | 26365  | 26590   |
|  | Frequency               | 1860   | 1882.5 | 1905    |
| 15                                     | Channel                 | 26115  | 26365  | 26615   |
|  | Frequency               | 1857.5 | 1882.5 | 1907.5  |
| 10                                     | Channel                 | 26090  | 26365  | 26640   |
|  | Frequency               | 1855   | 1882.5 | 1910    |
| 5                                      | Channel                 | 26065  | 26365  | 26665   |
|  | Frequency               | 1852.5 | 1882.5 | 1912.5  |
| 3                                      | Channel                 | 26055  | 26365  | 26675   |
|  | Frequency               | 1851.5 | 1882.5 | 1913.5  |
| 1.4                                    | Channel                 | 26047  | 26365  | 26683   |
|  | Frequency               | 1850.7 | 1882.5 | 1914.3  |

| LTE Band 26A Channel and Frequency List |                         |        |        |         |
|---|-------------------------|--------|--------|---------|
| BW [MHz]                                | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 15                                      | Channel                 | 26865  | 26915  | 26965   |
|   | Frequency               | 831.5  | 836.5  | 841.5   |
| 10                                      | Channel                 | 26840  | 26915  | 26990   |
|   | Frequency               | 829    | 836.5  | 844     |
| 5                                       | Channel                 | 26815  | 26915  | 27015   |
|   | Frequency               | 826.5  | 836.5  | 846.5   |
| 3                                       | Channel                 | 26805  | 26915  | 27025   |
|   | Frequency               | 825.5  | 836.5  | 847.5   |
| 1.4                                     | Channel                 | 26797  | 26915  | 27033   |
|   | Frequency               | 824.7  | 836.5  | 848.3   |

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| LTE Band 26B Channel and Frequency List |                         |        |        |         |
|---|-------------------------|--------|--------|---------|
| BW [MHz]                                | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 15                                      | Channel                 | --     | 26765  | --      |
|   | Frequency               | --     | 821.5  | --      |
| 10                                      | Channel                 | --     | 26740  | --      |
|   | Frequency               | --     | 819.0  | --      |
| 5                                       | Channel                 | 26715  | 26740  | 26765   |
|   | Frequency               | 816.5  | 819.0  | 821.5   |
| 3                                       | Channel                 | 26705  | 26740  | 26775   |
|   | Frequency               | 815.5  | 819.0  | 822.5   |
| 1.4                                     | Channel                 | 26697  | 26740  | 26783   |
|   | Frequency               | 814.7  | 819.0  | 823.3   |

| LTE Band 38 Channel and Frequency List |                         |        |        |         |
|--|-------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                 | 37850  | 38000  | 38150   |
|  | Frequency               | 2580   | 2595   | 2610    |
| 15                                     | Channel                 | 37825  | 38000  | 38175   |
|  | Frequency               | 2577.5 | 2595   | 2612.5  |
| 10                                     | Channel                 | 37800  | 38000  | 38200   |
|  | Frequency               | 2575   | 2595   | 2615    |
| 5                                      | Channel                 | 37775  | 38000  | 38225   |
|  | Frequency               | 2572.5 | 2595   | 2617.5  |

| LTE Band 41 Channel and Frequency List |                         |        |        |         |
|--|-------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                 | 39750  | 40620  | 41490   |
|  | Frequency               | 2506.0 | 2593.0 | 2680.0  |
| 15                                     | Channel                 | 39725  | 40620  | 41515   |
|  | Frequency               | 2503.5 | 2593.0 | 2682.5  |
| 10                                     | Channel                 | 39700  | 40620  | 41540   |
|  | Frequency               | 2501.0 | 2593.0 | 2685.0  |
| 5                                      | Channel                 | 39675  | 40620  | 41565   |
|  | Frequency               | 2498.5 | 2593.0 | 2687.5  |

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| Test Mode    | Test Modes Description       |
|--------------|------------------------------|
| LTE BAND 2   | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 4   | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 5   | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 7   | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 12  | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 17  | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 25  | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 26A | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 26B | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 38  | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |
| LTE BAND 41  | LTE system, QPSK modulation  |
|              | LTE system, 16QAM modulation |

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**ACCORDING TO 3GPP 36.521 SUB-CLAUSE 6.2.3.3, THE MAXIMUM OUTPUT POWER IS ALLOWED TO BE REDUCED BY FOLLOWING THE TABLE.**

TABLE 6.2.3.3-1: MAXIMUM POWER REDUCTION (MPR) FOR POWER CLASS 3

| Modulation | Channel bandwidth / Transmission bandwidth configuration [RB] |         |       |        |        |        | MPR (dB) |
|------------|---|---------|-------|--------|--------|--------|----------|
|            | 1.4 MHz   | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz |          |
| QPSK       | > 5   | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 1      |
| 16 QAM     | ≤ 5   | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | ≤ 1      |
| 16 QAM     | > 5   | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 2      |

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (For PRACH, PUCCH and SRS transmission, the allowed MPR is according to that specified for PUSCH QPSK modulation for the corresponding transmission bandwidth.).

When PRACH, PUCCH are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

For each subframe, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) within the slot, the maximum MPR over the two slots is then applied for the entire subframe.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply. The normative reference for this requirement is TS 36.101 clause 6.2.3.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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## 7. CONDUCTED OUTPUT POWER

### 7.1 PROVISIONS APPLICABLE

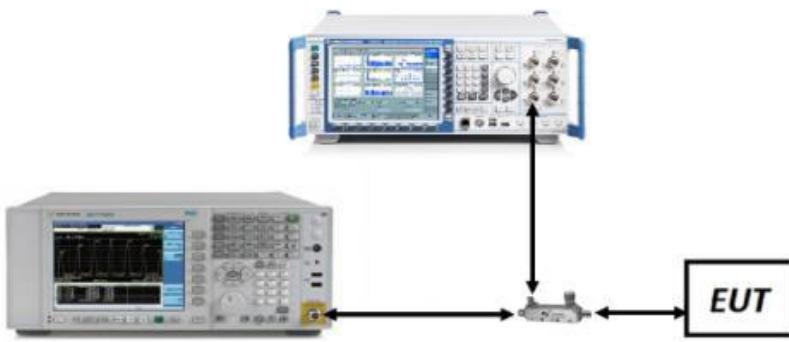
The conduction test is carried out in a shielded room.

According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.4)

### 7.2 MEASUREMENT METHOD

- The transmitter output port was connected to base station.
- Set EUT at maximum power through base station.
- Select lowest, middle, and highest channels for each band and different test mode.

### 7.3 MEASUREMENT SETUP



### 7.4 MEASUREMENT RESULT

Please refer to the next page for test result data.

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## LTE Band 2

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 20MHz    | 18700 | 1860.0      | QPSK  | 1                | 0            | 0   | 21.39               |
|          |       |             |       | 1                | 49           | 0   | 21.70               |
|          |       |             |       | 1                | 99           | 0   | 21.37               |
|          |       |             |       | 50               | 0            | 1   | 20.63               |
|          |       |             |       | 50               | 25           | 1   | 20.66               |
|          |       |             |       | 50               | 49           | 1   | 20.57               |
|          |       |             |       | 100              | 0            | 1   | 20.62               |
|          | 18900 | 1880.0      | 16QAM | 1                | 0            | 1   | 20.29               |
|          |       |             |       | 1                | 49           | 1   | 20.50               |
|          |       |             |       | 1                | 99           | 1   | 20.20               |
|          |       |             |       | 50               | 0            | 2   | 19.66               |
|          |       |             |       | 50               | 25           | 2   | 19.65               |
|          |       |             |       | 50               | 49           | 2   | 19.58               |
|          |       |             |       | 100              | 0            | 2   | 19.68               |
|          | 19100 | 1900.0      | QPSK  | 1                | 0            | 0   | 21.18               |
|          |       |             |       | 1                | 49           | 0   | 21.35               |
|          |       |             |       | 1                | 99           | 0   | 20.82               |
|          |       |             |       | 50               | 0            | 1   | 20.32               |
|          |       |             |       | 50               | 25           | 1   | 20.29               |
|          |       |             |       | 50               | 49           | 1   | 20.10               |
|          |       |             |       | 100              | 0            | 1   | 20.15               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.31               |
|          |       |             |       | 1                | 49           | 1   | 20.49               |
|          |       |             |       | 1                | 99           | 1   | 19.94               |
|          |       |             |       | 50               | 0            | 2   | 19.34               |
|          |       |             |       | 50               | 25           | 2   | 19.31               |
|          |       |             |       | 50               | 49           | 2   | 19.15               |
|          |       |             |       | 100              | 0            | 2   | 19.18               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 15MHz    | 18675 | 1857.5      | QPSK  | 1                | 0            | 0   | 21.49               |
|          |       |             |       | 1                | 38           | 0   | 21.57               |
|          |       |             |       | 1                | 74           | 0   | 21.42               |
|          |       |             |       | 38               | 0            | 1   | 20.50               |
|          |       |             |       | 38               | 18           | 1   | 20.56               |
|          |       |             |       | 38               | 37           | 1   | 20.46               |
|          |       |             |       | 75               | 0            | 1   | 20.72               |
|          | 18900 | 1880.0      | 16QAM | 1                | 0            | 1   | 20.53               |
|          |       |             |       | 1                | 38           | 1   | 20.55               |
|          |       |             |       | 1                | 74           | 1   | 20.45               |
|          |       |             |       | 38               | 0            | 2   | 20.49               |
|          |       |             |       | 38               | 18           | 2   | 20.60               |
|          |       |             |       | 38               | 37           | 2   | 20.52               |
|          |       |             |       | 75               | 0            | 2   | 19.57               |
|          | 19125 | 1902.5      | QPSK  | 1                | 0            | 0   | 21.23               |
|          |       |             |       | 1                | 38           | 0   | 21.14               |
|          |       |             |       | 1                | 74           | 0   | 20.89               |
|          |       |             |       | 38               | 0            | 1   | 20.43               |
|          |       |             |       | 38               | 18           | 1   | 20.33               |
|          |       |             |       | 38               | 37           | 1   | 20.08               |
|          |       |             |       | 75               | 0            | 1   | 20.33               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.40               |
|          |       |             |       | 1                | 38           | 1   | 20.26               |
|          |       |             |       | 1                | 74           | 1   | 20.07               |
|          |       |             |       | 38               | 0            | 2   | 20.41               |
|          |       |             |       | 38               | 18           | 2   | 20.32               |
|          |       |             |       | 38               | 37           | 2   | 20.02               |
|          |       |             |       | 75               | 0            | 2   | 19.25               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 10MHz    | 18650 | 1855.0      | QPSK  | 1                | 0            | 0   | 21.54               |
|          |       |             |       | 1                | 24           | 0   | 21.63               |
|          |       |             |       | 1                | 49           | 0   | 21.54               |
|          |       |             |       | 25               | 0            | 1   | 20.61               |
|          |       |             |       | 25               | 12           | 1   | 20.63               |
|          |       |             |       | 25               | 25           | 1   | 20.64               |
|          |       |             |       | 50               | 0            | 1   | 20.60               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.55               |
|          |       |             |       | 1                | 24           | 1   | 20.63               |
|          |       |             |       | 1                | 49           | 1   | 20.61               |
|          |       |             |       | 25               | 0            | 2   | 19.62               |
|          |       |             |       | 25               | 12           | 2   | 19.60               |
|          |       |             |       | 25               | 25           | 2   | 19.60               |
|          |       |             |       | 50               | 0            | 2   | 19.57               |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 21.35               |
|          |       |             |       | 1                | 24           | 0   | 21.38               |
|          |       |             |       | 1                | 49           | 0   | 21.15               |
|          |       |             |       | 25               | 0            | 1   | 20.34               |
|          |       |             |       | 25               | 12           | 1   | 20.28               |
|          |       |             |       | 25               | 25           | 1   | 20.23               |
|          |       |             |       | 50               | 0            | 1   | 20.24               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.18               |
|          |       |             |       | 1                | 24           | 1   | 20.19               |
|          |       |             |       | 1                | 49           | 1   | 20.02               |
|          |       |             |       | 25               | 0            | 2   | 19.35               |
|          |       |             |       | 25               | 12           | 2   | 19.36               |
|          |       |             |       | 25               | 25           | 2   | 19.24               |
|          |       |             |       | 50               | 0            | 2   | 19.29               |
|          | 19150 | 1905.0      | QPSK  | 1                | 0            | 0   | 21.13               |
|          |       |             |       | 1                | 24           | 0   | 21.32               |
|          |       |             |       | 1                | 49           | 0   | 21.54               |
|          |       |             |       | 25               | 0            | 1   | 20.33               |
|          |       |             |       | 25               | 12           | 1   | 20.33               |
|          |       |             |       | 25               | 25           | 1   | 20.48               |
|          |       |             |       | 50               | 0            | 1   | 20.33               |
|          |       |             | 16QAM | 1                | 0            | 1   | 19.94               |
|          |       |             |       | 1                | 24           | 1   | 20.28               |
|          |       |             |       | 1                | 49           | 1   | 20.30               |
|          |       |             |       | 25               | 0            | 2   | 19.34               |
|          |       |             |       | 25               | 12           | 2   | 19.35               |
|          |       |             |       | 25               | 25           | 2   | 19.49               |
|          |       |             |       | 50               | 0            | 2   | 19.37               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 5MHz     | 18625 | 1852.5      | QPSK  | 1                | 0            | 0   | 21.58               |
|          |       |             |       | 1                | 12           | 0   | 21.66               |
|          |       |             |       | 1                | 24           | 0   | 21.55               |
|          |       |             |       | 12               | 0            | 1   | 20.58               |
|          |       |             |       | 12               | 6            | 1   | 20.61               |
|          |       |             |       | 12               | 13           | 1   | 20.60               |
|          |       |             |       | 25               | 0            | 1   | 20.60               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.51               |
|          |       |             |       | 1                | 12           | 1   | 20.58               |
|          |       |             |       | 1                | 24           | 1   | 20.51               |
|          |       |             |       | 12               | 0            | 2   | 19.54               |
|          |       |             |       | 12               | 6            | 2   | 19.55               |
|          |       |             |       | 12               | 13           | 2   | 19.50               |
|          |       |             |       | 25               | 0            | 2   | 19.59               |
| 5MHz     | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 21.16               |
|          |       |             |       | 1                | 12           | 0   | 21.24               |
|          |       |             |       | 1                | 24           | 0   | 21.08               |
|          |       |             |       | 12               | 0            | 1   | 20.25               |
|          |       |             |       | 12               | 6            | 1   | 20.22               |
|          |       |             |       | 12               | 13           | 1   | 20.19               |
|          |       |             |       | 25               | 0            | 1   | 20.24               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.32               |
|          |       |             |       | 1                | 12           | 1   | 20.33               |
|          |       |             |       | 1                | 24           | 1   | 20.21               |
|          |       |             |       | 12               | 0            | 2   | 19.26               |
|          |       |             |       | 12               | 6            | 2   | 19.25               |
|          |       |             |       | 12               | 13           | 2   | 19.24               |
|          |       |             |       | 25               | 0            | 2   | 19.20               |
| 5MHz     | 19175 | 1907.5      | QPSK  | 1                | 0            | 0   | 21.29               |
|          |       |             |       | 1                | 12           | 0   | 21.52               |
|          |       |             |       | 1                | 24           | 0   | 21.49               |
|          |       |             |       | 12               | 0            | 1   | 20.38               |
|          |       |             |       | 12               | 6            | 1   | 20.43               |
|          |       |             |       | 12               | 13           | 1   | 20.48               |
|          |       |             |       | 25               | 0            | 1   | 20.44               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.26               |
|          |       |             |       | 1                | 12           | 1   | 20.42               |
|          |       |             |       | 1                | 24           | 1   | 20.40               |
|          |       |             |       | 12               | 0            | 2   | 19.40               |
|          |       |             |       | 12               | 6            | 2   | 19.39               |
|          |       |             |       | 12               | 13           | 2   | 19.44               |
|          |       |             |       | 25               | 0            | 2   | 19.47               |

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|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 3MHz     | 18615 | 1851.5      | QPSK  | 1                | 0            | 0   | 21.59               |
|          |       |             |       | 1                | 8            | 0   | 21.61               |
|          |       |             |       | 1                | 14           | 0   | 21.57               |
|          |       |             |       | 8                | 0            | 1   | 20.67               |
|          |       |             |       | 8                | 4            | 1   | 20.65               |
|          |       |             |       | 8                | 8            | 1   | 20.66               |
|          |       |             |       | 15               | 0            | 1   | 20.62               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.61               |
|          |       |             |       | 1                | 8            | 1   | 20.62               |
|          |       |             |       | 1                | 14           | 1   | 20.55               |
|          |       |             |       | 8                | 0            | 2   | 19.64               |
|          |       |             |       | 8                | 4            | 2   | 19.63               |
|          |       |             |       | 8                | 8            | 2   | 19.61               |
|          |       |             |       | 15               | 0            | 2   | 19.60               |
| 3MHz     | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 21.25               |
|          |       |             |       | 1                | 8            | 0   | 21.24               |
|          |       |             |       | 1                | 14           | 0   | 21.22               |
|          |       |             |       | 8                | 0            | 1   | 20.25               |
|          |       |             |       | 8                | 4            | 1   | 20.27               |
|          |       |             |       | 8                | 7            | 1   | 20.23               |
|          |       |             |       | 15               | 0            | 1   | 20.21               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.19               |
|          |       |             |       | 1                | 8            | 1   | 20.01               |
|          |       |             |       | 1                | 14           | 1   | 20.05               |
|          |       |             |       | 8                | 0            | 2   | 19.24               |
|          |       |             |       | 8                | 4            | 2   | 19.23               |
|          |       |             |       | 8                | 8            | 2   | 19.18               |
|          |       |             |       | 15               | 0            | 2   | 19.13               |
| 3MHz     | 19185 | 1908.5      | QPSK  | 1                | 0            | 0   | 21.46               |
|          |       |             |       | 1                | 8            | 0   | 21.47               |
|          |       |             |       | 1                | 14           | 0   | 21.54               |
|          |       |             |       | 8                | 0            | 1   | 20.54               |
|          |       |             |       | 8                | 4            | 1   | 20.54               |
|          |       |             |       | 8                | 8            | 1   | 20.57               |
|          |       |             |       | 15               | 0            | 1   | 20.51               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.21               |
|          |       |             |       | 1                | 8            | 1   | 20.32               |
|          |       |             |       | 1                | 14           | 1   | 20.34               |
|          |       |             |       | 8                | 0            | 2   | 19.50               |
|          |       |             |       | 8                | 4            | 2   | 19.51               |
|          |       |             |       | 8                | 8            | 2   | 19.54               |
|          |       |             |       | 15               | 0            | 2   | 19.37               |

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|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 1.4MHz   | 18607 | 1850.7      | QPSK  | 1                | 0            | 0   | 19.37               |
|          |       |             |       | 1                | 2            | 0   | 19.55               |
|          |       |             |       | 1                | 5            | 0   | 19.39               |
|          |       |             |       | 3                | 0            | 0   | 21.64               |
|          |       |             |       | 3                | 1            | 0   | 21.65               |
|          |       |             |       | 3                | 2            | 0   | 21.61               |
|          |       |             |       | 6                | 0            | 1   | 20.70               |
|          |       |             | 16QAM | 1                | 0            | 1   | 18.25               |
|          |       |             |       | 1                | 2            | 1   | 18.43               |
|          |       |             |       | 1                | 5            | 1   | 18.29               |
|          |       |             |       | 3                | 0            | 1   | 20.45               |
|          |       |             |       | 3                | 1            | 1   | 20.45               |
|          |       |             |       | 3                | 2            | 1   | 20.32               |
|          |       |             |       | 6                | 0            | 2   | 19.67               |
| 1.4MHz   | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 21.23               |
|          |       |             |       | 1                | 2            | 0   | 21.43               |
|          |       |             |       | 1                | 5            | 0   | 21.17               |
|          |       |             |       | 3                | 0            | 0   | 21.31               |
|          |       |             |       | 3                | 1            | 0   | 21.33               |
|          |       |             |       | 3                | 2            | 0   | 21.31               |
|          |       |             |       | 6                | 0            | 1   | 20.37               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.17               |
|          |       |             |       | 1                | 2            | 1   | 20.31               |
|          |       |             |       | 1                | 5            | 1   | 20.11               |
|          |       |             |       | 3                | 0            | 1   | 20.15               |
|          |       |             |       | 3                | 1            | 1   | 20.16               |
|          |       |             |       | 3                | 2            | 1   | 20.13               |
|          |       |             |       | 6                | 0            | 2   | 19.36               |
| 1.4MHz   | 19193 | 1909.3      | QPSK  | 1                | 0            | 0   | 21.45               |
|          |       |             |       | 1                | 2            | 0   | 21.57               |
|          |       |             |       | 1                | 5            | 0   | 21.46               |
|          |       |             |       | 3                | 0            | 0   | 21.55               |
|          |       |             |       | 3                | 1            | 0   | 21.58               |
|          |       |             |       | 3                | 2            | 0   | 21.60               |
|          |       |             |       | 6                | 0            | 1   | 20.60               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.42               |
|          |       |             |       | 1                | 2            | 1   | 20.56               |
|          |       |             |       | 1                | 5            | 1   | 20.50               |
|          |       |             |       | 3                | 0            | 1   | 20.40               |
|          |       |             |       | 3                | 1            | 1   | 20.40               |
|          |       |             |       | 3                | 2            | 1   | 20.40               |
|          |       |             |       | 6                | 0            | 2   | 19.61               |

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## LTE Band 4

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 20MHz    | 20050 | 1720.0      | QPSK  | 1                | 0            | 0   | 22.89               |
|          |       |             |       | 1                | 49           | 0   | 23.26               |
|          |       |             |       | 1                | 99           | 0   | 22.73               |
|          |       |             |       | 50               | 0            | 1   | 22.03               |
|          |       |             |       | 50               | 25           | 1   | 22.03               |
|          |       |             |       | 50               | 49           | 1   | 21.99               |
|          |       |             |       | 100              | 0            | 1   | 22.01               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.78               |
|          |       |             |       | 1                | 49           | 1   | 22.11               |
|          |       |             |       | 1                | 99           | 1   | 21.69               |
|          |       |             |       | 50               | 0            | 2   | 21.03               |
|          |       |             |       | 50               | 25           | 2   | 21.00               |
|          |       |             |       | 50               | 49           | 2   | 20.97               |
|          |       |             |       | 100              | 0            | 2   | 20.96               |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.15               |
|          |       |             |       | 1                | 49           | 0   | 22.48               |
|          |       |             |       | 1                | 99           | 0   | 22.36               |
|          |       |             |       | 50               | 0            | 1   | 21.40               |
|          |       |             |       | 50               | 25           | 1   | 21.42               |
|          |       |             |       | 50               | 49           | 1   | 21.51               |
|          |       |             |       | 100              | 0            | 1   | 21.39               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.12               |
|          |       |             |       | 1                | 49           | 1   | 21.39               |
|          |       |             |       | 1                | 99           | 1   | 21.26               |
|          |       |             |       | 50               | 0            | 2   | 20.48               |
|          |       |             |       | 50               | 25           | 2   | 20.47               |
|          |       |             |       | 50               | 49           | 2   | 20.49               |
|          |       |             |       | 100              | 0            | 2   | 20.38               |
|          | 20300 | 1745.0      | QPSK  | 1                | 0            | 0   | 22.22               |
|          |       |             |       | 1                | 49           | 0   | 22.77               |
|          |       |             |       | 1                | 99           | 0   | 22.47               |
|          |       |             |       | 50               | 0            | 1   | 21.52               |
|          |       |             |       | 50               | 25           | 1   | 21.46               |
|          |       |             |       | 50               | 49           | 1   | 21.63               |
|          |       |             |       | 100              | 0            | 1   | 21.54               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.32               |
|          |       |             |       | 1                | 49           | 1   | 21.89               |
|          |       |             |       | 1                | 99           | 1   | 21.61               |
|          |       |             |       | 50               | 0            | 2   | 20.52               |
|          |       |             |       | 50               | 25           | 2   | 20.54               |
|          |       |             |       | 50               | 49           | 2   | 20.70               |
|          |       |             |       | 100              | 0            | 2   | 20.58               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 15MHz    | 20025 | 1717.5      | QPSK  | 1                | 0            | 0   | 23.00               |
|          |       |             |       | 1                | 37           | 0   | 23.07               |
|          |       |             |       | 1                | 74           | 0   | 22.83               |
|          |       |             |       | 36               | 0            | 1   | 22.02               |
|          |       |             |       | 36               | 16           | 1   | 22.10               |
|          |       |             |       | 36               | 35           | 1   | 21.87               |
|          |       |             |       | 75               | 0            | 1   | 22.08               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.95               |
|          |       |             |       | 1                | 37           | 1   | 22.04               |
|          |       |             |       | 1                | 74           | 1   | 21.86               |
|          |       |             |       | 36               | 0            | 2   | 22.02               |
|          |       |             |       | 36               | 16           | 2   | 22.10               |
|          |       |             |       | 36               | 35           | 2   | 21.88               |
|          |       |             |       | 75               | 0            | 2   | 20.99               |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.24               |
|          |       |             |       | 1                | 37           | 0   | 22.44               |
|          |       |             |       | 1                | 74           | 0   | 22.35               |
|          |       |             |       | 36               | 0            | 1   | 21.26               |
|          |       |             |       | 36               | 16           | 1   | 21.36               |
|          |       |             |       | 36               | 35           | 1   | 21.38               |
|          |       |             |       | 75               | 0            | 1   | 21.46               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.27               |
|          |       |             |       | 1                | 37           | 1   | 21.41               |
|          |       |             |       | 1                | 74           | 1   | 21.36               |
|          |       |             |       | 36               | 0            | 2   | 21.23               |
|          |       |             |       | 36               | 16           | 2   | 21.38               |
|          |       |             |       | 36               | 35           | 2   | 21.41               |
|          |       |             |       | 75               | 0            | 2   | 20.42               |
|          | 20325 | 1747.5      | QPSK  | 1                | 0            | 0   | 22.29               |
|          |       |             |       | 1                | 37           | 0   | 22.48               |
|          |       |             |       | 1                | 74           | 0   | 22.48               |
|          |       |             |       | 36               | 0            | 1   | 21.49               |
|          |       |             |       | 36               | 16           | 1   | 21.69               |
|          |       |             |       | 36               | 35           | 1   | 21.75               |
|          |       |             |       | 75               | 0            | 1   | 21.68               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.50               |
|          |       |             |       | 1                | 37           | 1   | 21.67               |
|          |       |             |       | 1                | 74           | 1   | 21.70               |
|          |       |             |       | 36               | 0            | 2   | 21.49               |
|          |       |             |       | 36               | 16           | 2   | 21.71               |
|          |       |             |       | 36               | 35           | 2   | 21.75               |
|          |       |             |       | 75               | 0            | 2   | 20.67               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 10MHz    | 20000 | 1715.0      | QPSK  | 1                | 0            | 0   | 23.06               |
|          |       |             |       | 1                | 24           | 0   | 23.15               |
|          |       |             |       | 1                | 49           | 0   | 23.03               |
|          |       |             |       | 25               | 0            | 1   | 22.16               |
|          |       |             |       | 25               | 12           | 1   | 22.14               |
|          |       |             |       | 25               | 25           | 1   | 22.22               |
|          |       |             |       | 50               | 0            | 1   | 22.13               |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.13               |
|          |       |             |       | 1                | 24           | 1   | 22.22               |
|          |       |             |       | 1                | 49           | 1   | 22.09               |
|          |       |             |       | 25               | 0            | 2   | 21.08               |
|          |       |             |       | 25               | 12           | 2   | 21.08               |
|          |       |             |       | 25               | 25           | 2   | 21.19               |
|          |       |             |       | 50               | 0            | 2   | 21.13               |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.36               |
|          |       |             |       | 1                | 24           | 0   | 22.48               |
|          |       |             |       | 1                | 49           | 0   | 22.45               |
|          |       |             |       | 25               | 0            | 1   | 21.44               |
|          |       |             |       | 25               | 12           | 1   | 21.44               |
|          |       |             |       | 25               | 25           | 1   | 21.48               |
|          |       |             |       | 50               | 0            | 1   | 21.43               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.37               |
|          |       |             |       | 1                | 24           | 1   | 21.57               |
|          |       |             |       | 1                | 49           | 1   | 21.46               |
|          |       |             |       | 25               | 0            | 2   | 20.41               |
|          |       |             |       | 25               | 12           | 2   | 20.45               |
|          |       |             |       | 25               | 25           | 2   | 20.47               |
|          |       |             |       | 50               | 0            | 2   | 20.46               |
|          | 20350 | 1750.0      | QPSK  | 1                | 0            | 0   | 22.55               |
|          |       |             |       | 1                | 24           | 0   | 22.71               |
|          |       |             |       | 1                | 49           | 0   | 22.69               |
|          |       |             |       | 25               | 0            | 1   | 21.70               |
|          |       |             |       | 25               | 12           | 1   | 21.68               |
|          |       |             |       | 25               | 25           | 1   | 21.68               |
|          |       |             |       | 50               | 0            | 1   | 21.69               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.41               |
|          |       |             |       | 1                | 24           | 1   | 21.46               |
|          |       |             |       | 1                | 49           | 1   | 21.57               |
|          |       |             |       | 25               | 0            | 2   | 20.69               |
|          |       |             |       | 25               | 12           | 2   | 20.67               |
|          |       |             |       | 25               | 25           | 2   | 20.76               |
|          |       |             |       | 50               | 0            | 2   | 20.66               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 5MHz     | 19975 | 1712.5      | QPSK  | 1                | 0            | 0   | 23.06               |
|          |       |             |       | 1                | 12           | 0   | 23.16               |
|          |       |             |       | 1                | 24           | 0   | 23.09               |
|          |       |             |       | 12               | 0            | 1   | 22.11               |
|          |       |             |       | 12               | 6            | 1   | 22.03               |
|          |       |             |       | 12               | 11           | 1   | 22.15               |
|          |       |             |       | 25               | 0            | 1   | 22.10               |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.04               |
|          |       |             |       | 1                | 12           | 1   | 22.11               |
|          |       |             |       | 1                | 24           | 1   | 22.05               |
|          |       |             |       | 12               | 0            | 2   | 20.99               |
|          |       |             |       | 12               | 6            | 2   | 21.06               |
|          |       |             |       | 12               | 11           | 2   | 21.06               |
|          |       |             |       | 25               | 0            | 2   | 21.10               |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.31               |
|          |       |             |       | 1                | 12           | 0   | 22.41               |
|          |       |             |       | 1                | 24           | 0   | 22.38               |
|          |       |             |       | 12               | 0            | 1   | 21.33               |
|          |       |             |       | 12               | 6            | 1   | 21.37               |
|          |       |             |       | 12               | 11           | 1   | 21.34               |
|          |       |             |       | 25               | 0            | 1   | 21.37               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.29               |
|          |       |             |       | 1                | 12           | 1   | 21.32               |
|          |       |             |       | 1                | 24           | 1   | 21.36               |
|          |       |             |       | 12               | 0            | 2   | 20.25               |
|          |       |             |       | 12               | 6            | 2   | 20.32               |
|          |       |             |       | 12               | 11           | 2   | 20.39               |
|          |       |             |       | 25               | 0            | 2   | 20.42               |
|          | 20375 | 1752.5      | QPSK  | 1                | 0            | 0   | 22.51               |
|          |       |             |       | 1                | 12           | 0   | 22.64               |
|          |       |             |       | 1                | 24           | 0   | 22.60               |
|          |       |             |       | 12               | 0            | 1   | 21.65               |
|          |       |             |       | 12               | 6            | 1   | 21.66               |
|          |       |             |       | 12               | 11           | 1   | 21.66               |
|          |       |             |       | 25               | 0            | 1   | 21.68               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.65               |
|          |       |             |       | 1                | 12           | 1   | 21.70               |
|          |       |             |       | 1                | 24           | 1   | 21.67               |
|          |       |             |       | 12               | 0            | 2   | 20.72               |
|          |       |             |       | 12               | 6            | 2   | 20.72               |
|          |       |             |       | 12               | 11           | 2   | 20.72               |
|          |       |             |       | 25               | 0            | 2   | 20.64               |

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| BW (MHz) | Ch     | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|--------|-------------|-------|------------------|--------------|-----|---------------------|
| 19965    | 1711.5 | 19965       | QPSK  | 1                | 0            | 0   | 23.07               |
|          |        |             |       | 1                | 7            | 0   | 23.03               |
|          |        |             |       | 1                | 14           | 0   | 23.07               |
|          |        |             |       | 8                | 0            | 1   | 22.10               |
|          |        |             |       | 8                | 4            | 1   | 22.06               |
|          |        |             |       | 8                | 7            | 1   | 22.13               |
|          |        |             |       | 15               | 0            | 1   | 22.04               |
|          |        | 20175       | 16QAM | 1                | 0            | 1   | 22.09               |
|          |        |             |       | 1                | 7            | 1   | 22.10               |
|          |        |             |       | 1                | 14           | 1   | 22.06               |
|          |        |             |       | 8                | 0            | 2   | 21.12               |
|          |        |             |       | 8                | 4            | 2   | 21.09               |
|          |        |             |       | 8                | 7            | 2   | 21.07               |
|          |        |             |       | 15               | 0            | 2   | 21.07               |
| 3MHz     | 20175  | 1732.5      | QPSK  | 1                | 0            | 0   | 22.32               |
|          |        |             |       | 1                | 7            | 0   | 22.32               |
|          |        |             |       | 1                | 14           | 0   | 22.40               |
|          |        |             |       | 8                | 0            | 1   | 21.36               |
|          |        |             |       | 8                | 4            | 1   | 21.37               |
|          |        |             |       | 8                | 7            | 1   | 21.37               |
|          |        |             |       | 15               | 0            | 1   | 21.35               |
|          |        | 1753.5      | 16QAM | 1                | 0            | 1   | 21.34               |
|          |        |             |       | 1                | 7            | 1   | 21.28               |
|          |        |             |       | 1                | 14           | 1   | 21.35               |
|          |        |             |       | 8                | 0            | 2   | 20.38               |
|          |        |             |       | 8                | 4            | 2   | 20.39               |
|          |        |             |       | 8                | 7            | 2   | 20.40               |
|          |        |             |       | 15               | 0            | 2   | 20.34               |
| 20385    | 20385  | 1753.5      | QPSK  | 1                | 0            | 0   | 22.69               |
|          |        |             |       | 1                | 7            | 0   | 22.65               |
|          |        |             |       | 1                | 14           | 0   | 22.75               |
|          |        |             |       | 8                | 0            | 1   | 21.69               |
|          |        |             |       | 8                | 4            | 1   | 21.66               |
|          |        |             |       | 8                | 7            | 1   | 21.64               |
|          |        |             |       | 15               | 0            | 1   | 21.68               |
|          |        | 1753.5      | 16QAM | 1                | 0            | 1   | 21.54               |
|          |        |             |       | 1                | 7            | 1   | 21.46               |
|          |        |             |       | 1                | 14           | 1   | 21.46               |
|          |        |             |       | 8                | 0            | 2   | 20.63               |
|          |        |             |       | 8                | 4            | 2   | 20.63               |
|          |        |             |       | 8                | 7            | 2   | 20.63               |
|          |        |             |       | 15               | 0            | 2   | 20.57               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 1.4MHz   | 19957 | 1710.7      | QPSK  | 1                | 0            | 0   | 23.05               |
|          |       |             |       | 1                | 2            | 0   | 23.14               |
|          |       |             |       | 1                | 5            | 0   | 23.09               |
|          |       |             |       | 3                | 0            | 0   | 23.11               |
|          |       |             |       | 3                | 1            | 0   | 23.14               |
|          |       |             |       | 3                | 2            | 0   | 23.16               |
|          |       |             |       | 6                | 0            | 1   | 22.18               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.93               |
|          |       |             |       | 1                | 2            | 1   | 22.28               |
|          |       |             |       | 1                | 5            | 1   | 21.98               |
|          |       |             |       | 3                | 0            | 1   | 21.94               |
|          |       |             |       | 3                | 1            | 1   | 21.96               |
|          |       |             |       | 3                | 2            | 1   | 21.92               |
|          |       |             |       | 6                | 0            | 2   | 21.11               |
| 1.4MHz   | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 22.34               |
|          |       |             |       | 1                | 2            | 0   | 22.40               |
|          |       |             |       | 1                | 5            | 0   | 22.29               |
|          |       |             |       | 3                | 0            | 0   | 22.40               |
|          |       |             |       | 3                | 1            | 0   | 22.42               |
|          |       |             |       | 3                | 2            | 0   | 22.36               |
|          |       |             |       | 6                | 0            | 1   | 21.41               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.19               |
|          |       |             |       | 1                | 2            | 1   | 21.42               |
|          |       |             |       | 1                | 5            | 1   | 21.25               |
|          |       |             |       | 3                | 0            | 1   | 21.22               |
|          |       |             |       | 3                | 1            | 1   | 21.20               |
|          |       |             |       | 3                | 2            | 1   | 21.20               |
|          |       |             |       | 6                | 0            | 2   | 20.42               |
| 1.4MHz   | 20393 | 1754.3      | QPSK  | 1                | 0            | 0   | 22.67               |
|          |       |             |       | 1                | 2            | 0   | 22.76               |
|          |       |             |       | 1                | 5            | 0   | 22.70               |
|          |       |             |       | 3                | 0            | 0   | 22.71               |
|          |       |             |       | 3                | 1            | 0   | 22.76               |
|          |       |             |       | 3                | 2            | 0   | 22.72               |
|          |       |             |       | 6                | 0            | 1   | 21.70               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.43               |
|          |       |             |       | 1                | 2            | 1   | 21.68               |
|          |       |             |       | 1                | 5            | 1   | 21.50               |
|          |       |             |       | 3                | 0            | 1   | 21.53               |
|          |       |             |       | 3                | 1            | 1   | 21.55               |
|          |       |             |       | 3                | 2            | 1   | 21.55               |
|          |       |             |       | 6                | 0            | 2   | 20.53               |

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## LTE Band 5

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 10MHz    | 20450 | 829         | QPSK  | 1                | 0            | 0   | 22.28               |
|          |       |             |       | 1                | 24           | 0   | 22.40               |
|          |       |             |       | 1                | 49           | 0   | 22.42               |
|          |       |             |       | 25               | 0            | 1   | 21.36               |
|          |       |             |       | 25               | 12           | 1   | 21.32               |
|          |       |             |       | 25               | 25           | 1   | 21.50               |
|          |       |             |       | 50               | 0            | 1   | 21.40               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.21               |
|          |       |             |       | 1                | 24           | 1   | 21.38               |
|          |       |             |       | 1                | 49           | 1   | 21.28               |
|          |       |             |       | 25               | 0            | 2   | 20.37               |
|          |       |             |       | 25               | 12           | 2   | 20.41               |
|          |       |             |       | 25               | 25           | 2   | 20.46               |
|          |       |             |       | 50               | 0            | 2   | 20.44               |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.41               |
|          |       |             |       | 1                | 24           | 0   | 22.69               |
|          |       |             |       | 1                | 49           | 0   | 22.75               |
|          |       |             |       | 25               | 0            | 1   | 21.59               |
|          |       |             |       | 25               | 12           | 1   | 21.57               |
|          |       |             |       | 25               | 25           | 1   | 21.69               |
|          |       |             |       | 50               | 0            | 1   | 21.59               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.21               |
|          |       |             |       | 1                | 24           | 1   | 21.52               |
|          |       |             |       | 1                | 49           | 1   | 21.58               |
|          |       |             |       | 25               | 0            | 2   | 20.60               |
|          |       |             |       | 25               | 12           | 2   | 20.61               |
|          |       |             |       | 25               | 25           | 2   | 20.78               |
|          |       |             |       | 50               | 0            | 2   | 20.62               |
|          | 20600 | 844         | QPSK  | 1                | 0            | 0   | 22.62               |
|          |       |             |       | 1                | 24           | 0   | 22.94               |
|          |       |             |       | 1                | 49           | 0   | 22.91               |
|          |       |             |       | 25               | 0            | 1   | 21.93               |
|          |       |             |       | 25               | 12           | 1   | 21.91               |
|          |       |             |       | 25               | 25           | 1   | 21.93               |
|          |       |             |       | 50               | 0            | 1   | 21.89               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.76               |
|          |       |             |       | 1                | 24           | 1   | 22.07               |
|          |       |             |       | 1                | 49           | 1   | 22.01               |
|          |       |             |       | 25               | 0            | 2   | 20.92               |
|          |       |             |       | 25               | 12           | 2   | 20.91               |
|          |       |             |       | 25               | 25           | 2   | 20.95               |
|          |       |             |       | 50               | 0            | 2   | 20.92               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 5MHz     | 20425 | 826.5       | QPSK  | 1                | 0            | 0   | 22.98               |
|          |       |             |       | 1                | 12           | 0   | 23.11               |
|          |       |             |       | 1                | 24           | 0   | 22.97               |
|          |       |             |       | 12               | 0            | 1   | 22.00               |
|          |       |             |       | 12               | 6            | 1   | 22.02               |
|          |       |             |       | 12               | 11           | 1   | 21.99               |
|          |       |             |       | 25               | 0            | 1   | 22.07               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.91               |
|          |       |             |       | 1                | 12           | 1   | 22.05               |
|          |       |             |       | 1                | 24           | 1   | 21.91               |
|          |       |             |       | 12               | 0            | 2   | 20.94               |
|          |       |             |       | 12               | 6            | 2   | 20.96               |
|          |       |             |       | 12               | 11           | 2   | 21.04               |
|          |       |             |       | 25               | 0            | 2   | 21.07               |
| 5MHz     | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.44               |
|          |       |             |       | 1                | 12           | 0   | 22.69               |
|          |       |             |       | 1                | 24           | 0   | 22.66               |
|          |       |             |       | 12               | 0            | 1   | 21.53               |
|          |       |             |       | 12               | 6            | 1   | 21.61               |
|          |       |             |       | 12               | 11           | 1   | 21.62               |
|          |       |             |       | 25               | 0            | 1   | 21.61               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.41               |
|          |       |             |       | 1                | 12           | 1   | 21.57               |
|          |       |             |       | 1                | 24           | 1   | 21.62               |
|          |       |             |       | 12               | 0            | 2   | 20.51               |
|          |       |             |       | 12               | 6            | 2   | 20.53               |
|          |       |             |       | 12               | 11           | 2   | 20.55               |
|          |       |             |       | 25               | 0            | 2   | 20.65               |
| 5MHz     | 20625 | 846.5       | QPSK  | 1                | 0            | 0   | 22.72               |
|          |       |             |       | 1                | 12           | 0   | 22.96               |
|          |       |             |       | 1                | 24           | 0   | 22.80               |
|          |       |             |       | 12               | 0            | 1   | 21.93               |
|          |       |             |       | 12               | 6            | 1   | 21.93               |
|          |       |             |       | 12               | 11           | 1   | 21.93               |
|          |       |             |       | 25               | 0            | 1   | 21.95               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.89               |
|          |       |             |       | 1                | 12           | 1   | 22.06               |
|          |       |             |       | 1                | 24           | 1   | 21.94               |
|          |       |             |       | 12               | 0            | 2   | 21.02               |
|          |       |             |       | 12               | 6            | 2   | 21.01               |
|          |       |             |       | 12               | 11           | 2   | 20.97               |
|          |       |             |       | 25               | 0            | 2   | 20.97               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 3MHz     | 20415 | 825.5       | QPSK  | 1                | 0            | 0   | 23.04               |
|          |       |             |       | 1                | 7            | 0   | 22.94               |
|          |       |             |       | 1                | 14           | 0   | 22.97               |
|          |       |             |       | 8                | 0            | 1   | 22.05               |
|          |       |             |       | 8                | 4            | 1   | 22.04               |
|          |       |             |       | 8                | 7            | 1   | 22.01               |
|          |       |             |       | 15               | 0            | 1   | 21.99               |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.11               |
|          |       |             |       | 1                | 7            | 1   | 22.09               |
|          |       |             |       | 1                | 14           | 1   | 22.05               |
|          |       |             |       | 8                | 0            | 2   | 21.07               |
|          |       |             |       | 8                | 4            | 2   | 21.04               |
|          |       |             |       | 8                | 7            | 2   | 21.01               |
|          |       |             |       | 15               | 0            | 2   | 21.00               |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.47               |
|          |       |             |       | 1                | 7            | 0   | 22.50               |
|          |       |             |       | 1                | 14           | 0   | 22.58               |
|          |       |             |       | 8                | 0            | 1   | 21.55               |
|          |       |             |       | 8                | 4            | 1   | 21.50               |
|          |       |             |       | 8                | 7            | 1   | 21.62               |
|          |       |             |       | 15               | 0            | 1   | 21.57               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.59               |
|          |       |             |       | 1                | 7            | 1   | 21.56               |
|          |       |             |       | 1                | 14           | 1   | 21.64               |
|          |       |             |       | 8                | 0            | 2   | 20.59               |
|          |       |             |       | 8                | 4            | 2   | 20.55               |
|          |       |             |       | 8                | 7            | 2   | 20.65               |
|          |       |             |       | 15               | 0            | 2   | 20.61               |
|          | 20635 | 847.5       | QPSK  | 1                | 0            | 0   | 22.92               |
|          |       |             |       | 1                | 7            | 0   | 22.98               |
|          |       |             |       | 1                | 14           | 0   | 22.97               |
|          |       |             |       | 8                | 0            | 1   | 21.91               |
|          |       |             |       | 8                | 4            | 1   | 21.90               |
|          |       |             |       | 8                | 7            | 1   | 21.87               |
|          |       |             |       | 15               | 0            | 1   | 21.90               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.76               |
|          |       |             |       | 1                | 7            | 1   | 21.77               |
|          |       |             |       | 1                | 14           | 1   | 21.76               |
|          |       |             |       | 8                | 0            | 2   | 20.93               |
|          |       |             |       | 8                | 4            | 2   | 20.95               |
|          |       |             |       | 8                | 7            | 2   | 20.90               |
|          |       |             |       | 15               | 0            | 2   | 20.86               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 1.4MHz   | 20407 | 824.7       | QPSK  | 1                | 0            | 0   | 23.01               |
|          |       |             |       | 1                | 2            | 0   | 23.10               |
|          |       |             |       | 1                | 5            | 0   | 22.97               |
|          |       |             |       | 3                | 0            | 0   | 23.09               |
|          |       |             |       | 3                | 1            | 0   | 23.09               |
|          |       |             |       | 3                | 2            | 0   | 23.10               |
|          |       |             |       | 6                | 0            | 1   | 22.01               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.86               |
|          |       |             |       | 1                | 2            | 1   | 21.97               |
|          |       |             |       | 1                | 5            | 1   | 21.85               |
|          |       |             |       | 3                | 0            | 1   | 21.92               |
|          |       |             |       | 3                | 1            | 1   | 21.94               |
|          |       |             |       | 3                | 2            | 1   | 21.92               |
|          |       |             |       | 6                | 0            | 2   | 20.89               |
|          | 20525 | 836.5       | QPSK  | 1                | 0            | 0   | 22.43               |
|          |       |             |       | 1                | 2            | 0   | 22.53               |
|          |       |             |       | 1                | 5            | 0   | 22.45               |
|          |       |             |       | 3                | 0            | 0   | 22.56               |
|          |       |             |       | 3                | 1            | 0   | 22.59               |
|          |       |             |       | 3                | 2            | 0   | 22.60               |
|          |       |             |       | 6                | 0            | 1   | 21.60               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.39               |
|          |       |             |       | 1                | 2            | 1   | 21.71               |
|          |       |             |       | 1                | 5            | 1   | 21.42               |
|          |       |             |       | 3                | 0            | 1   | 21.45               |
|          |       |             |       | 3                | 1            | 1   | 21.40               |
|          |       |             |       | 3                | 2            | 1   | 21.47               |
|          |       |             |       | 6                | 0            | 2   | 20.59               |
|          | 20643 | 848.3       | QPSK  | 1                | 0            | 0   | 22.85               |
|          |       |             |       | 1                | 2            | 0   | 23.04               |
|          |       |             |       | 1                | 5            | 0   | 22.86               |
|          |       |             |       | 3                | 0            | 0   | 22.99               |
|          |       |             |       | 3                | 1            | 0   | 22.96               |
|          |       |             |       | 3                | 2            | 0   | 23.01               |
|          |       |             |       | 6                | 0            | 1   | 21.93               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.73               |
|          |       |             |       | 1                | 2            | 1   | 21.90               |
|          |       |             |       | 1                | 5            | 1   | 21.67               |
|          |       |             |       | 3                | 0            | 1   | 21.84               |
|          |       |             |       | 3                | 1            | 1   | 21.84               |
|          |       |             |       | 3                | 2            | 1   | 21.80               |
|          |       |             |       | 6                | 0            | 2   | 20.83               |

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**LTE Band 7**

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 20MHz    | 20850 | 2510        | QPSK  | 1                | 0            | 0   | 22.07               |
|          |       |             |       | 1                | 49           | 0   | 22.72               |
|          |       |             |       | 1                | 99           | 0   | 22.33               |
|          |       |             |       | 50               | 0            | 1   | 21.30               |
|          |       |             |       | 50               | 25           | 1   | 21.29               |
|          |       |             |       | 50               | 49           | 1   | 21.48               |
|          |       |             |       | 100              | 0            | 1   | 21.33               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.92               |
|          |       |             |       | 1                | 49           | 1   | 21.56               |
|          |       |             |       | 1                | 99           | 1   | 21.14               |
|          |       |             |       | 50               | 0            | 2   | 20.25               |
|          |       |             |       | 50               | 25           | 2   | 20.24               |
|          |       |             |       | 50               | 49           | 2   | 20.48               |
|          |       |             |       | 100              | 0            | 2   | 20.35               |
| 20MHz    | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 22.10               |
|          |       |             |       | 1                | 49           | 0   | 22.44               |
|          |       |             |       | 1                | 99           | 0   | 22.07               |
|          |       |             |       | 50               | 0            | 1   | 21.29               |
|          |       |             |       | 50               | 25           | 1   | 21.28               |
|          |       |             |       | 50               | 49           | 1   | 21.25               |
|          |       |             |       | 100              | 0            | 1   | 21.31               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.16               |
|          |       |             |       | 1                | 49           | 1   | 21.42               |
|          |       |             |       | 1                | 99           | 1   | 21.14               |
|          |       |             |       | 50               | 0            | 2   | 20.34               |
|          |       |             |       | 50               | 25           | 2   | 20.35               |
|          |       |             |       | 50               | 49           | 2   | 20.28               |
|          |       |             |       | 100              | 0            | 2   | 20.29               |
| 20MHz    | 21350 | 2560        | QPSK  | 1                | 0            | 0   | 21.14               |
|          |       |             |       | 1                | 49           | 0   | 21.58               |
|          |       |             |       | 1                | 99           | 0   | 21.11               |
|          |       |             |       | 50               | 0            | 1   | 20.41               |
|          |       |             |       | 50               | 25           | 1   | 20.45               |
|          |       |             |       | 50               | 49           | 1   | 20.38               |
|          |       |             |       | 100              | 0            | 1   | 20.39               |
|          |       |             | 16QAM | 1                | 0            | 1   | 19.96               |
|          |       |             |       | 1                | 49           | 1   | 20.41               |
|          |       |             |       | 1                | 99           | 1   | 19.99               |
|          |       |             |       | 50               | 0            | 2   | 19.41               |
|          |       |             |       | 50               | 25           | 2   | 19.45               |
|          |       |             |       | 50               | 49           | 2   | 19.32               |
|          |       |             |       | 100              | 0            | 2   | 19.33               |

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| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|
| 15MHz    | 20825 | 2507.5      | QPSK  | 1                | 0            | 0   | 22.19               |
|          |       |             |       | 1                | 37           | 0   | 22.41               |
|          |       |             |       | 1                | 74           | 0   | 22.40               |
|          |       |             |       | 36               | 0            | 1   | 21.20               |
|          |       |             |       | 36               | 16           | 1   | 21.44               |
|          |       |             |       | 36               | 35           | 1   | 21.43               |
|          |       |             |       | 75               | 0            | 1   | 21.50               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.14               |
|          |       |             |       | 1                | 37           | 1   | 21.42               |
|          |       |             |       | 1                | 74           | 1   | 21.40               |
|          |       |             |       | 36               | 0            | 2   | 21.13               |
|          |       |             |       | 36               | 16           | 2   | 21.45               |
|          |       |             |       | 36               | 35           | 2   | 21.43               |
|          |       |             |       | 75               | 0            | 2   | 20.43               |
|          | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 22.15               |
|          |       |             |       | 1                | 37           | 0   | 22.15               |
|          |       |             |       | 1                | 74           | 0   | 22.08               |
|          |       |             |       | 36               | 0            | 1   | 21.24               |
|          |       |             |       | 36               | 16           | 1   | 21.30               |
|          |       |             |       | 36               | 35           | 1   | 21.26               |
|          |       |             |       | 75               | 0            | 1   | 21.33               |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.25               |
|          |       |             |       | 1                | 37           | 1   | 21.34               |
|          |       |             |       | 1                | 74           | 1   | 21.20               |
|          |       |             |       | 36               | 0            | 2   | 21.28               |
|          |       |             |       | 36               | 16           | 2   | 21.34               |
|          |       |             |       | 36               | 35           | 2   | 21.23               |
|          |       |             |       | 75               | 0            | 2   | 20.28               |
|          | 21375 | 2562.5      | QPSK  | 1                | 0            | 0   | 21.35               |
|          |       |             |       | 1                | 37           | 0   | 21.38               |
|          |       |             |       | 1                | 74           | 0   | 21.17               |
|          |       |             |       | 36               | 0            | 1   | 20.26               |
|          |       |             |       | 36               | 16           | 1   | 20.40               |
|          |       |             |       | 36               | 35           | 1   | 20.15               |
|          |       |             |       | 75               | 0            | 1   | 20.44               |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.35               |
|          |       |             |       | 1                | 37           | 1   | 20.38               |
|          |       |             |       | 1                | 74           | 1   | 20.17               |
|          |       |             |       | 36               | 0            | 2   | 20.36               |
|          |       |             |       | 36               | 16           | 2   | 20.40               |
|          |       |             |       | 36               | 35           | 2   | 20.12               |
|          |       |             |       | 75               | 0            | 2   | 19.30               |

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