



REPORT No.: SZ16030142W05

# FCC RF TEST REPORT

**APPLICANT** : ZTE Corporation

**PRODUCT NAME** : LTE Mutil-Mode Digital Mobile Phone

**MODEL NAME** : Z861BL

**TRADE NAME** : ZTE

**BRAND NAME** : ZTE

**FCC ID** : SRQ-Z861BL

**STANDARD(S)** : 47 CFR Part 22, Subpart H  
47 CFR Part 24, Subpart E  
47 CFR Part 27, Subpart H&L

**ISSUE DATE** : 2016-05-19



**SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.**

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| Change History |            |                   |
|----------------|------------|-------------------|
| Issue          | Date       | Reason for change |
| 1.0            | 2016-05-19 | First edition     |
|                |            |                   |



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**TEST REPORT DECLARATION**

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Applicant            | ZTE Corporation                                                                                         |
| Applicant Address    | ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R. China |
| Manufacturer         | ZTE Corporation                                                                                         |
| Manufacturer Address | ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R. China |
| Product Name         | LTE Mutil-Mode Digital Mobile Phone                                                                     |
| Model Name           | Z861BL                                                                                                  |
| Brand Name           | ZTE                                                                                                     |
| HW Version           | Z861BLHWV1.0                                                                                            |
| SW Version           | Z861BLV0.0.0B02                                                                                         |
| Test Standards       | 47 CFR Part 22, Subpart H<br>47 CFR Part 24, Subpart E<br>47 CFR Part 27, Subpart H&L                   |
| Test Date            | 2016-04-06 to 2016-04-22                                                                                |
| Test Result          | PASS                                                                                                    |

Tested by : Yuan Ling  
Yuan Ling

Reviewed by : Qiu Xiaojun  
Qiu Xiaojun

Approved by : Peng Huarui  
Peng Huarui



## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type .....: LTE Mutil-Mode Digital Mobile Phone  
Serial No. ....: (n.a, marked #1 by test site)  
Hardware Version.....: Z861BLHWV1.0  
Software Version..... Z861BLV0.0.0B02  
Applicant .....: ZTE Corporation  
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan  
District, Shenzhen, Guangdong, P.R.China  
Manufacturer.....: ZTE Corporation  
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan  
District, Shenzhen, Guangdong, P.R.China  
Modulation Type.....: LTE Band 2: QPSK, 16QAM  
LTE Band 4: QPSK, 16QAM  
LTE Band 5: QPSK, 16QAM  
LTE Band 12: QPSK, 16QAM  
Tx Frequency Range.....: LTE Band 2: 1850MHz ~1910MHz  
LTE Band 4: 1710MHz ~1755MHz  
LTE Band 5: 824MHz ~ 849MHz  
LTE Band 12: 699MHz ~ 716MHz  
Rx Frequency Range .....: LTE Band 2: 1930MHz ~ 1990MHz  
LTE Band 4: 2110MHz ~ 2155MHz  
LTE Band 5: 869MHz ~ 894MHz  
LTE Band 12: 729MHz ~ 746MHz  
Emission Designator .....: 1M10G7D (LTE Band 2, QPSK, BW 1.4MHz)  
1M10W7D (LTE Band 2, 16QAM, BW 1.4MHz)  
2M72G7D (LTE Band 2, QPSK, BW 3MHz)  
2M72 W7D (LTE Band 2, 16QAM, BW 3MHz)  
4M53G7D (LTE Band 2, QPSK, BW 5MHz)  
4M53 W7D (LTE Band 2, 16QAM, BW 5MHz)  
9M00G7D (LTE Band 2, QPSK, BW 10MHz)  
9M00W7D (LTE Band 2, 16QAM, BW 10MHz)  
13M54G7D (LTE Band 2, QPSK, BW 15MHz)  
13M50W7D (LTE Band 2, 16QAM, BW 15MHz)  
18M00G7D (LTE Band 2, QPSK, BW 20MHz)  
18M00W7D (LTE Band 2, 16QAM, BW 20MHz)  
1M10G7D (LTE Band 4, QPSK, BW 1.4MHz)



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1M11W7D (LTE Band 4, 16QAM, BW 1.4MHz)  
2M72G7D (LTE Band 4, QPSK, BW 3MHz)  
2M72W7D (LTE Band 4, 16QAM, BW 3MHz)  
4M53G7D (LTE Band 4, QPSK, BW 5MHz)  
4M53W7D (LTE Band 4, 16QAM, BW 5MHz)  
9M00G7D (LTE Band 4, QPSK, BW 10MHz)  
9M00W7D (LTE Band 4, 16QAM, BW 10MHz)  
13M50G7D (LTE Band 4, QPSK, BW 15MHz)  
13M50W7D (LTE Band 4, 16QAM, BW 15MHz)  
18M00G7D (LTE Band 4, QPSK, BW 20MHz)  
18M04W7D (LTE Band 4, 16QAM, BW 20MHz)  
1M11G7D (LTE Band 5, QPSK, BW 1.4MHz)  
1M10W7D (LTE Band 5, 16QAM, BW 1.4MHz)  
2M71G7D (LTE Band 5, QPSK, BW 3MHz)  
2M72W7D (LTE Band 5, 16QAM, BW 3MHz)  
4M54G7D (LTE Band 5, QPSK, BW 5MHz)  
4M53W7D (LTE Band 5, 16QAM, BW 5MHz)  
9M00G7D (LTE Band 5, QPSK, BW 10MHz)  
9M00W7D (LTE Band 5, 16QAM, BW 10MHz)  
1M10G7D (LTE Band 12, QPSK, BW 1.4MHz)  
1M10W7D (LTE Band 12, 16QAM, BW 1.4MHz)  
2M72G7D (LTE Band 12, QPSK, BW 3MHz)  
2M71W7D (LTE Band 12, 16QAM, BW 3MHz)  
4M53G7D (LTE Band 12, QPSK, BW 5MHz)  
4M53W7D (LTE Band 12, 16QAM, BW 5MHz)  
9M01G7D (LTE Band 12, QPSK, BW 10MHz)  
9M00W7D (LTE Band 12, 16QAM, BW 10MHz)

Antenna Type .....: PIFA Antenna

Power Supply ..... 3.8V DC Power



## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2 and Part 22, Part 24, Part 27 for the EUT FCC ID Certification:

| No. | Identity                            | Document Title                                                                |
|-----|-------------------------------------|-------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2                       | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2   | 47 CFR Part 22<br>(10-1-09 Edition) | Public Mobile Services                                                        |
| 3   | 47 CFR Part 24<br>(10-1-09 Edition) | Personal Communications Services                                              |
| 4   | 47 CFR Part 27                      | Miscellaneous Wireless Communications Services                                |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section                                                        | Description                         | Result      |
|-----|----------------------------------------------------------------|-------------------------------------|-------------|
| 1   | 2.1046                                                         | Transmitter Conducted Output Power  | <u>PASS</u> |
| 2   | 24.232(d), 27.50(d)(5)                                         | Occupied Bandwidth                  | <u>PASS</u> |
| 3   | 2.1049, 22.917<br>24.238, 27.53(g)                             | Frequency Stability                 | <u>PASS</u> |
| 4   | 2.1055, 22.355<br>24.235, 27.54                                | Peak to Average Ratio               | <u>PASS</u> |
| 5   | 2.1051, 2.1057<br>24.238, 27.53(g)                             | Conducted Spurious Emissions        | <u>PASS</u> |
| 6   | 2.1051, 2.1057, 22.917,<br>24.238, 27.53(g)(h),<br>27.53(m)(4) | Band Edge                           | <u>PASS</u> |
| 7   | 22.913, 24.232,<br>27.50(d)(4)                                 | Equivalent Isotropic Radiated Power | <u>PASS</u> |
| 8   | 2.1053, 2.1057, 22.917,<br>24.238, 27.53(g)                    | Radiated Spurious Emissions         | <u>PASS</u> |



### 1.3 Facilities and Accreditations

#### 1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China 518101. The test site is constructed in conformance with the requirements of TIA/EIA 603.D: 2010, ANSI C63.4: 2009 and CISPR Publication 22: 2010. The FCC registration number is 695796.

#### 1.3.2 Test Environment Conditions

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

|                             |          |
|-----------------------------|----------|
| Temperature (°C):           | 15 - 35  |
| Relative Humidity (%):      | 30 - 60  |
| Atmospheric Pressure (kPa): | 86 - 106 |



## 2. 47 CFR PART 2, PART 22H & 24E & 27H&L REQUIREMENTS

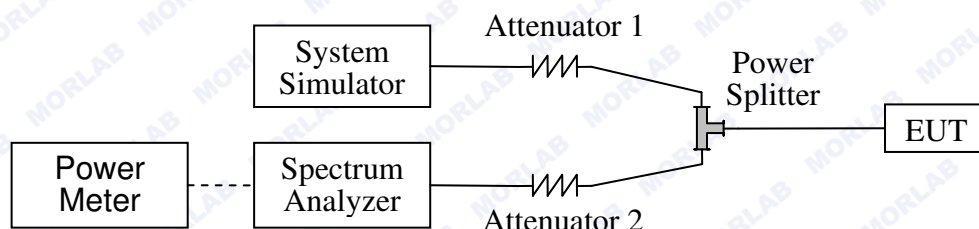
### 2.1 Transmitter Conducted Output Power

#### 2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2 Test Description

Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

Equipments List:

| Description       | Manufacturer   | Model  | Serial No.                 | Cal. Date  | Cal. Due   |
|-------------------|----------------|--------|----------------------------|------------|------------|
| System Simulator  | Rohde& Schwarz | CMW500 | 1201.0002k5<br>0/124534/wk | 2016.03.02 | 2017.03.01 |
| Spectrum Analyzer | Rohde& Schwarz | FSL    | 10246                      | 2016.03.02 | 2017.03.01 |
| Spectrum Analyzer | Agilent        | E4445A | MY44200685                 | 2016.03.02 | 2017.03.01 |
| Power Meter       | Agilent        | E4418B | GB43318055                 | 2016.03.02 | 2017.03.01 |
| Power Meter       | Agilent        | E4418B | GB43318055                 | 2016.03.02 | 2017.03.01 |
| Power Sensor      | Agilent        | 8482A  | MY41091706                 | 2016.03.02 | 2017.03.01 |
| Power Splitter    | Weinschel      | 1506A  | NW521                      | 2016.03.02 | 2017.03.01 |
| Attenuator 1      | Resnet         | 20dB   | (n.a.)                     | 2016.03.02 | 2017.03.01 |
| Attenuator 2      | Resnet         | 3dB    | (n.a.)                     | 2016.03.02 | 2017.03.01 |

#### 2.1.3 Test Results



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 20MHz      | L<br>18700 | 1860       | QPSK       | 1                | 0         | 22.45                  |
|               |            |            |            |            | 1                | 49        | 22.24                  |
|               |            |            |            |            | 1                | 99        | 22.20                  |
|               |            |            |            |            | 50               | 0         | 21.28                  |
|               |            |            |            |            | 50               | 25        | 21.12                  |
|               |            |            |            |            | 50               | 49        | 21.14                  |
|               |            |            |            |            | 100              | 0         | 21.26                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.78                  |
|               |            |            |            |            | 1                | 49        | 21.19                  |
|               |            |            |            |            | 1                | 99        | 21.64                  |
|               |            |            |            |            | 50               | 0         | 21.52                  |
|               |            |            |            |            | 50               | 25        | 21.34                  |
|               |            |            |            |            | 50               | 49        | 21.12                  |
|               |            |            |            |            | 100              | 0         | 20.06                  |
|               |            | M<br>18900 | 1880       | QPSK       | 1                | 0         | 22.03                  |
|               |            |            |            |            | 1                | 49        | 22.63                  |
|               |            |            |            |            | 1                | 99        | 22.44                  |
|               |            |            |            |            | 50               | 0         | 21.28                  |
|               |            |            |            |            | 50               | 25        | 21.24                  |
|               |            |            |            |            | 50               | 49        | 21.22                  |
|               |            |            |            |            | 100              | 0         | 21.25                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.38                  |
|               |            |            |            |            | 1                | 49        | 21.67                  |
|               |            |            |            |            | 1                | 99        | 21.06                  |
|               |            |            |            |            | 50               | 0         | 21.33                  |
|               |            |            |            |            | 50               | 25        | 21.04                  |
|               |            |            |            |            | 50               | 49        | 21.12                  |
|               |            |            |            |            | 100              | 0         | 20.11                  |
|               |            | H<br>19100 | 1900       | QPSK       | 1                | 0         | 22.41                  |
|               |            |            |            |            | 1                | 49        | 22.58                  |
|               |            |            |            |            | 1                | 99        | 22.73                  |
|               |            |            |            |            | 50               | 0         | 21.44                  |
|               |            |            |            |            | 50               | 25        | 21.28                  |
|               |            |            |            |            | 50               | 49        | 21.31                  |
|               |            |            |            |            | 100              | 0         | 21.37                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.23                  |
|               |            |            |            |            | 1                | 49        | 21.47                  |
|               |            |            |            |            | 1                | 99        | 21.97                  |
|               |            |            |            |            | 50               | 0         | 21.67                  |
|               |            |            |            |            | 50               | 25        | 21.79                  |
|               |            |            |            |            | 50               | 49        | 21.51                  |
|               |            |            |            |            | 100              | 0         | 20.25                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 15MHz      | L<br>18675 | 1857.5     | QPSK       | 1                | 0         | 22.02                  |
|               |            |            |            |            | 1                | 37        | 22.11                  |
|               |            |            |            |            | 1                | 74        | 22.32                  |
|               |            |            |            |            | 36               | 0         | 21.89                  |
|               |            |            |            |            | 36               | 18        | 21.67                  |
|               |            |            |            |            | 36               | 35        | 21.51                  |
|               |            |            |            |            | 75               | 0         | 21.26                  |
|               |            | M<br>18900 | 1880       | 16-QAM     | 1                | 0         | 21.16                  |
|               |            |            |            |            | 1                | 37        | 21.05                  |
|               |            |            |            |            | 1                | 74        | 21.14                  |
|               |            |            |            |            | 36               | 0         | 21.09                  |
|               |            |            |            |            | 36               | 18        | 21.01                  |
|               |            |            |            |            | 36               | 35        | 21.07                  |
|               |            |            |            |            | 75               | 0         | 20.96                  |
|               |            | H<br>19125 | 1902.5     | QPSK       | 1                | 0         | 21.66                  |
|               |            |            |            |            | 1                | 37        | 21.78                  |
|               |            |            |            |            | 1                | 74        | 21.59                  |
|               |            |            |            |            | 36               | 0         | 21.48                  |
|               |            |            |            |            | 36               | 18        | 21.63                  |
|               |            |            |            |            | 36               | 35        | 21.02                  |
|               |            |            |            |            | 75               | 0         | 21.03                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.46                  |
|               |            |            |            |            | 1                | 37        | 21.89                  |
|               |            |            |            |            | 1                | 74        | 21.78                  |
|               |            |            |            |            | 36               | 0         | 21.63                  |
|               |            |            |            |            | 36               | 18        | 21.49                  |
|               |            |            |            |            | 36               | 35        | 21.36                  |
|               |            |            |            |            | 75               | 0         | 21.48                  |
|               |            |            |            | QPSK       | 1                | 0         | 21.77                  |
|               |            |            |            |            | 1                | 37        | 21.89                  |
|               |            |            |            |            | 1                | 74        | 21.54                  |
|               |            |            |            |            | 36               | 0         | 21.59                  |
|               |            |            |            |            | 36               | 18        | 21.45                  |
|               |            |            |            |            | 36               | 35        | 21.63                  |
|               |            |            |            |            | 75               | 0         | 21.25                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.89                  |
|               |            |            |            |            | 1                | 37        | 21.48                  |
|               |            |            |            |            | 1                | 74        | 21.57                  |
|               |            |            |            |            | 36               | 0         | 21.69                  |
|               |            |            |            |            | 36               | 18        | 21.61                  |
|               |            |            |            |            | 36               | 35        | 21.42                  |
|               |            |            |            |            | 75               | 0         | 21.23                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 10MHz      | L<br>18650 | 1855       | QPSK       | 1                | 0         | 22.38                  |
|               |            |            |            |            | 1                | 24        | 22.43                  |
|               |            |            |            |            | 1                | 49        | 22.12                  |
|               |            |            |            |            | 25               | 0         | 21.35                  |
|               |            |            |            |            | 25               | 12        | 21.23                  |
|               |            |            |            |            | 25               | 24        | 21.15                  |
|               |            |            |            |            | 50               | 0         | 21.24                  |
|               |            | M<br>18900 | 1880       | 16-QAM     | 1                | 0         | 22.24                  |
|               |            |            |            |            | 1                | 24        | 21.98                  |
|               |            |            |            |            | 1                | 49        | 21.53                  |
|               |            |            |            |            | 25               | 0         | 21.69                  |
|               |            |            |            |            | 25               | 12        | 21.63                  |
|               |            |            |            |            | 25               | 24        | 21.34                  |
|               |            |            |            |            | 50               | 0         | 20.08                  |
|               |            | H<br>19150 | 1905       | QPSK       | 1                | 0         | 22.25                  |
|               |            |            |            |            | 1                | 24        | 22.24                  |
|               |            |            |            |            | 1                | 49        | 22.26                  |
|               |            |            |            |            | 25               | 0         | 21.32                  |
|               |            |            |            |            | 25               | 12        | 21.35                  |
|               |            |            |            |            | 25               | 24        | 21.36                  |
|               |            |            |            |            | 50               | 0         | 21.36                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.66                  |
|               |            |            |            |            | 1                | 24        | 21.34                  |
|               |            |            |            |            | 1                | 49        | 21.37                  |
|               |            |            |            |            | 25               | 0         | 21.39                  |
|               |            |            |            |            | 25               | 12        | 21.46                  |
|               |            |            |            |            | 25               | 24        | 21.37                  |
|               |            |            |            |            | 50               | 0         | 20.25                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.39                  |
|               |            |            |            |            | 1                | 24        | 22.66                  |
|               |            |            |            |            | 1                | 49        | 22.47                  |
|               |            |            |            |            | 25               | 0         | 21.23                  |
|               |            |            |            |            | 25               | 12        | 21.33                  |
|               |            |            |            |            | 25               | 24        | 21.57                  |
|               |            |            |            |            | 50               | 0         | 21.36                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.40                  |
|               |            |            |            |            | 1                | 24        | 21.38                  |
|               |            |            |            |            | 1                | 49        | 21.57                  |
|               |            |            |            |            | 25               | 0         | 21.48                  |
|               |            |            |            |            | 25               | 12        | 21.36                  |
|               |            |            |            |            | 25               | 24        | 21.21                  |
|               |            |            |            |            | 50               | 0         | 20.34                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 5MHz       | L<br>18625 | 1852.5     | QPSK       | 1                | 0         | 21.66                  |
|               |            |            |            |            | 1                | 12        | 21.79                  |
|               |            |            |            |            | 1                | 24        | 21.54                  |
|               |            |            |            |            | 12               | 0         | 21.13                  |
|               |            |            |            |            | 12               | 6         | 21.26                  |
|               |            |            |            |            | 12               | 11        | 21.24                  |
|               |            |            |            |            | 25               | 0         | 21.05                  |
|               |            | M<br>18900 | 1880       | 16-QAM     | 1                | 0         | 22.56                  |
|               |            |            |            |            | 1                | 12        | 22.45                  |
|               |            |            |            |            | 1                | 24        | 22.39                  |
|               |            |            |            |            | 12               | 0         | 22.58                  |
|               |            |            |            |            | 12               | 6         | 21.96                  |
|               |            |            |            |            | 12               | 11        | 21.85                  |
|               |            |            |            |            | 25               | 0         | 21.75                  |
|               |            |            |            | QPSK       | 1                | 0         | 21.89                  |
|               |            |            |            |            | 1                | 12        | 21.65                  |
|               |            |            |            |            | 1                | 24        | 21.48                  |
|               |            |            |            |            | 12               | 0         | 21.43                  |
|               |            |            |            |            | 12               | 6         | 21.25                  |
|               |            |            |            |            | 12               | 11        | 21.26                  |
|               |            |            |            |            | 25               | 0         | 21.12                  |
|               |            | H<br>19175 | 1907.5     | 16-QAM     | 1                | 0         | 22.01                  |
|               |            |            |            |            | 1                | 12        | 21.89                  |
|               |            |            |            |            | 1                | 24        | 21.57                  |
|               |            |            |            |            | 12               | 0         | 21.78                  |
|               |            |            |            |            | 12               | 6         | 21.76                  |
|               |            |            |            |            | 12               | 11        | 21.63                  |
|               |            |            |            |            | 25               | 0         | 21.43                  |
|               |            |            |            | QPSK       | 1                | 0         | 21.56                  |
|               |            |            |            |            | 1                | 12        | 21.48                  |
|               |            |            |            |            | 1                | 24        | 21.59                  |
|               |            |            |            |            | 12               | 0         | 21.43                  |
|               |            |            |            |            | 12               | 6         | 21.35                  |
|               |            |            |            |            | 12               | 11        | 21.22                  |
|               |            |            |            | 16-QAM     | 25               | 0         | 21.04                  |
|               |            |            |            |            | 1                | 0         | 21.36                  |
|               |            |            |            |            | 1                | 12        | 21.58                  |
|               |            |            |            |            | 1                | 24        | 21.49                  |
|               |            |            |            |            | 12               | 0         | 21.23                  |
|               |            |            |            |            | 12               | 6         | 21.25                  |
|               |            |            |            |            | 12               | 11        | 21.29                  |
|               |            |            |            |            | 25               | 0         | 20.88                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 3MHz       | L<br>18615 | 1851.5     | QPSK       | 1                | 0         | 22.24                  |
|               |            |            |            |            | 1                | 7         | 22.36                  |
|               |            |            |            |            | 1                | 14        | 22.41                  |
|               |            |            |            |            | 8                | 0         | 21.20                  |
|               |            |            |            |            | 8                | 4         | 21.23                  |
|               |            |            |            |            | 8                | 7         | 21.29                  |
|               |            |            |            |            | 15               | 0         | 21.22                  |
|               |            | M<br>18900 | 1880       | 16-QAM     | 1                | 0         | 22.24                  |
|               |            |            |            |            | 1                | 7         | 22.28                  |
|               |            |            |            |            | 1                | 14        | 22.23                  |
|               |            |            |            |            | 8                | 0         | 21.88                  |
|               |            |            |            |            | 8                | 4         | 21.59                  |
|               |            |            |            |            | 8                | 7         | 21.46                  |
|               |            |            |            |            | 15               | 0         | 20.15                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.27                  |
|               |            |            |            |            | 1                | 7         | 22.40                  |
|               |            |            |            |            | 1                | 14        | 22.41                  |
|               |            |            |            |            | 8                | 0         | 21.31                  |
|               |            |            |            |            | 8                | 4         | 21.36                  |
|               |            |            |            |            | 8                | 7         | 21.37                  |
|               |            |            |            |            | 15               | 0         | 21.39                  |
|               |            | H<br>19185 | 1908.5     | 16-QAM     | 1                | 0         | 21.32                  |
|               |            |            |            |            | 1                | 7         | 21.06                  |
|               |            |            |            |            | 1                | 14        | 21.01                  |
|               |            |            |            |            | 8                | 0         | 21.05                  |
|               |            |            |            |            | 8                | 4         | 21.11                  |
|               |            |            |            |            | 8                | 7         | 21.03                  |
|               |            |            |            |            | 15               | 0         | 20.25                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.50                  |
|               |            |            |            |            | 1                | 7         | 22.49                  |
|               |            |            |            |            | 1                | 14        | 22.45                  |
|               |            |            |            |            | 8                | 0         | 21.48                  |
|               |            |            |            |            | 8                | 4         | 21.59                  |
|               |            |            |            |            | 8                | 7         | 21.50                  |
|               |            |            |            |            | 15               | 0         | 21.49                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.42                  |
|               |            |            |            |            | 1                | 7         | 21.48                  |
|               |            |            |            |            | 1                | 14        | 21.46                  |
|               |            |            |            |            | 8                | 0         | 21.56                  |
|               |            |            |            |            | 8                | 4         | 21.43                  |
|               |            |            |            |            | 8                | 7         | 21.37                  |
|               |            |            |            |            | 15               | 0         | 20.26                  |



REPORT No.: SZ16030142W05

| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 2 | 1.4MHz     | L<br>18607 | 1850.7     | QPSK       | 1                | 0         | 22.10                  |
|               |            |            |            |            | 1                | 2         | 22.23                  |
|               |            |            |            |            | 1                | 5         | 22.32                  |
|               |            |            |            |            | 3                | 0         | 22.40                  |
|               |            |            |            |            | 3                | 1         | 22.21                  |
|               |            |            |            |            | 3                | 2         | 21.13                  |
|               |            |            |            |            | 6                | 0         | 22.25                  |
|               |            | M<br>18900 | 1880       | 16-QAM     | 1                | 0         | 21.34                  |
|               |            |            |            |            | 1                | 2         | 21.40                  |
|               |            |            |            |            | 1                | 5         | 21.36                  |
|               |            |            |            |            | 3                | 0         | 21.37                  |
|               |            |            |            |            | 3                | 1         | 21.26                  |
|               |            |            |            |            | 3                | 2         | 21.02                  |
|               |            |            |            |            | 6                | 0         | 20.17                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.19                  |
|               |            |            |            |            | 1                | 2         | 22.26                  |
|               |            |            |            |            | 1                | 5         | 22.19                  |
|               |            |            |            |            | 3                | 0         | 22.38                  |
|               |            |            |            |            | 3                | 1         | 22.39                  |
|               |            |            |            |            | 3                | 2         | 21.46                  |
|               |            |            |            |            | 6                | 0         | 21.34                  |
|               |            | H<br>19193 | 1909.3     | 16-QAM     | 1                | 0         | 21.28                  |
|               |            |            |            |            | 1                | 2         | 21.17                  |
|               |            |            |            |            | 1                | 5         | 21.20                  |
|               |            |            |            |            | 3                | 0         | 21.15                  |
|               |            |            |            |            | 3                | 2         | 21.13                  |
|               |            |            |            |            | 3                | 5         | 21.02                  |
|               |            |            |            |            | 6                | 0         | 20.21                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.30                  |
|               |            |            |            |            | 1                | 2         | 22.68                  |
|               |            |            |            |            | 1                | 5         | 22.61                  |
|               |            |            |            |            | 3                | 0         | 22.54                  |
|               |            |            |            |            | 3                | 1         | 22.44                  |
|               |            |            |            |            | 3                | 2         | 22.47                  |
|               |            |            |            |            | 6                | 0         | 21.62                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.53                  |
|               |            |            |            |            | 1                | 2         | 21.71                  |
|               |            |            |            |            | 1                | 5         | 21.58                  |
|               |            |            |            |            | 3                | 0         | 21.63                  |
|               |            |            |            |            | 3                | 1         | 21.67                  |
|               |            |            |            |            | 3                | 2         | 21.32                  |
|               |            |            |            |            | 6                | 0         | 20.71                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 20MHz      | L<br>20050 | 1720.0     | QPSK       | 1                | 0         | 22.26                  |
|               |            |            |            |            | 1                | 49        | 22.17                  |
|               |            |            |            |            | 1                | 99        | 22.43                  |
|               |            |            |            |            | 50               | 0         | 21.33                  |
|               |            |            |            |            | 50               | 25        | 21.36                  |
|               |            |            |            |            | 50               | 49        | 21.26                  |
|               |            |            |            |            | 100              | 0         | 21.28                  |
|               |            | M<br>20175 | 1732.5     | 16-QAM     | 1                | 0         | 21.81                  |
|               |            |            |            |            | 1                | 49        | 21.51                  |
|               |            |            |            |            | 1                | 99        | 21.44                  |
|               |            |            |            |            | 50               | 0         | 21.59                  |
|               |            |            |            |            | 50               | 25        | 21.36                  |
|               |            |            |            |            | 50               | 49        | 21.37                  |
|               |            |            |            |            | 100              | 0         | 20.28                  |
|               |            | H<br>20300 | 1745.0     | QPSK       | 1                | 0         | 22.46                  |
|               |            |            |            |            | 1                | 49        | 22.54                  |
|               |            |            |            |            | 1                | 99        | 22.35                  |
|               |            |            |            |            | 50               | 0         | 21.27                  |
|               |            |            |            |            | 50               | 25        | 21.24                  |
|               |            |            |            |            | 50               | 49        | 21.19                  |
|               |            |            |            |            | 100              | 0         | 21.32                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.31                  |
|               |            |            |            |            | 1                | 49        | 21.35                  |
|               |            |            |            |            | 1                | 99        | 20.98                  |
|               |            |            |            |            | 50               | 0         | 20.69                  |
|               |            |            |            |            | 50               | 25        | 20.78                  |
|               |            |            |            |            | 50               | 49        | 20.53                  |
|               |            |            |            |            | 100              | 0         | 20.27                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.40                  |
|               |            |            |            |            | 1                | 49        | 22.23                  |
|               |            |            |            |            | 1                | 99        | 22.17                  |
|               |            |            |            |            | 50               | 0         | 21.49                  |
|               |            |            |            |            | 50               | 25        | 21.51                  |
|               |            |            |            |            | 50               | 49        | 21.22                  |
|               |            |            |            |            | 100              | 0         | 21.37                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.37                  |
|               |            |            |            |            | 1                | 49        | 21.14                  |
|               |            |            |            |            | 1                | 99        | 20.73                  |
|               |            |            |            |            | 50               | 0         | 20.49                  |
|               |            |            |            |            | 50               | 25        | 20.43                  |
|               |            |            |            |            | 50               | 49        | 20.19                  |
|               |            |            |            |            | 100              | 0         | 20.14                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 15MHz      | L<br>20025 | 1717.5     | QPSK       | 1                | 0         | 22.36                  |
|               |            |            |            |            | 1                | 37        | 22.25                  |
|               |            |            |            |            | 1                | 74        | 22.49                  |
|               |            |            |            |            | 36               | 0         | 21.45                  |
|               |            |            |            |            | 36               | 18        | 21.58                  |
|               |            |            |            |            | 36               | 35        | 21.63                  |
|               |            |            |            |            | 75               | 0         | 21.24                  |
|               |            | M<br>20175 | 1732.5     | 16-QAM     | 1                | 0         | 21.85                  |
|               |            |            |            |            | 1                | 37        | 21.34                  |
|               |            |            |            |            | 1                | 74        | 21.58                  |
|               |            |            |            |            | 36               | 0         | 21.66                  |
|               |            |            |            |            | 36               | 18        | 21.43                  |
|               |            |            |            |            | 36               | 35        | 21.37                  |
|               |            |            |            |            | 75               | 0         | 20.31                  |
|               |            | H<br>20325 | 1747.5     | QPSK       | 1                | 0         | 22.58                  |
|               |            |            |            |            | 1                | 37        | 22.67                  |
|               |            |            |            |            | 1                | 74        | 22.41                  |
|               |            |            |            |            | 36               | 0         | 21.34                  |
|               |            |            |            |            | 36               | 18        | 21.69                  |
|               |            |            |            |            | 36               | 35        | 21.52                  |
|               |            |            |            |            | 75               | 0         | 21.31                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.45                  |
|               |            |            |            |            | 1                | 37        | 21.60                  |
|               |            |            |            |            | 1                | 74        | 20.99                  |
|               |            |            |            |            | 36               | 0         | 20.78                  |
|               |            |            |            |            | 36               | 18        | 20.51                  |
|               |            |            |            |            | 36               | 35        | 20.38                  |
|               |            |            |            |            | 75               | 0         | 20.14                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.58                  |
|               |            |            |            |            | 1                | 37        | 22.33                  |
|               |            |            |            |            | 1                | 74        | 22.21                  |
|               |            |            |            |            | 36               | 0         | 21.59                  |
|               |            |            |            |            | 36               | 18        | 21.46                  |
|               |            |            |            |            | 36               | 35        | 21.38                  |
|               |            |            |            |            | 75               | 0         | 21.21                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.37                  |
|               |            |            |            |            | 1                | 37        | 21.20                  |
|               |            |            |            |            | 1                | 74        | 20.88                  |
|               |            |            |            |            | 36               | 0         | 20.59                  |
|               |            |            |            |            | 36               | 18        | 20.54                  |
|               |            |            |            |            | 36               | 35        | 20.26                  |
|               |            |            |            |            | 75               | 0         | 20.21                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 10MHz      | L<br>20000 | 1715.0     | QPSK       | 1                | 0         | 22.47                  |
|               |            |            |            |            | 1                | 24        | 22.26                  |
|               |            |            |            |            | 1                | 49        | 22.01                  |
|               |            |            |            |            | 25               | 0         | 21.25                  |
|               |            |            |            |            | 25               | 12        | 21.30                  |
|               |            |            |            |            | 25               | 24        | 21.21                  |
|               |            |            |            |            | 50               | 0         | 21.25                  |
|               |            | M<br>20175 | 1732.5     | 16-QAM     | 1                | 0         | 21.70                  |
|               |            |            |            |            | 1                | 24        | 21.63                  |
|               |            |            |            |            | 1                | 49        | 21.25                  |
|               |            |            |            |            | 25               | 0         | 21.16                  |
|               |            |            |            |            | 25               | 12        | 21.11                  |
|               |            |            |            |            | 25               | 24        | 21.03                  |
|               |            |            |            |            | 50               | 0         | 20.21                  |
|               |            | H<br>20350 | 1750.0     | QPSK       | 1                | 0         | 22.19                  |
|               |            |            |            |            | 1                | 24        | 22.38                  |
|               |            |            |            |            | 1                | 49        | 22.34                  |
|               |            |            |            |            | 25               | 0         | 21.34                  |
|               |            |            |            |            | 25               | 12        | 21.19                  |
|               |            |            |            |            | 25               | 24        | 21.13                  |
|               |            |            |            |            | 50               | 0         | 21.26                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.45                  |
|               |            |            |            |            | 1                | 24        | 21.23                  |
|               |            |            |            |            | 1                | 49        | 21.12                  |
|               |            |            |            |            | 25               | 0         | 21.16                  |
|               |            |            |            |            | 25               | 12        | 21.34                  |
|               |            |            |            |            | 25               | 24        | 21.35                  |
|               |            |            |            |            | 50               | 0         | 20.24                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.01                  |
|               |            |            |            |            | 1                | 24        | 22.05                  |
|               |            |            |            |            | 1                | 49        | 22.00                  |
|               |            |            |            |            | 25               | 0         | 21.14                  |
|               |            |            |            |            | 25               | 12        | 21.11                  |
|               |            |            |            |            | 25               | 24        | 21.13                  |
|               |            |            |            |            | 50               | 0         | 21.16                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.25                  |
|               |            |            |            |            | 1                | 24        | 21.19                  |
|               |            |            |            |            | 1                | 49        | 21.01                  |
|               |            |            |            |            | 25               | 0         | 21.05                  |
|               |            |            |            |            | 25               | 12        | 21.13                  |
|               |            |            |            |            | 25               | 24        | 21.09                  |
|               |            |            |            |            | 50               | 0         | 21.01                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 5MHz       | L<br>19975 | 1712.5     | QPSK       | 1                | 0         | 22.47                  |
|               |            |            |            |            | 1                | 12        | 22.51                  |
|               |            |            |            |            | 1                | 24        | 22.31                  |
|               |            |            |            |            | 12               | 0         | 21.69                  |
|               |            |            |            |            | 12               | 6         | 21.87                  |
|               |            |            |            |            | 12               | 11        | 21.56                  |
|               |            |            |            |            | 25               | 0         | 21.23                  |
|               |            | M<br>20175 | 1732.5     | 16-QAM     | 1                | 0         | 21.67                  |
|               |            |            |            |            | 1                | 12        | 21.78                  |
|               |            |            |            |            | 1                | 24        | 21.89                  |
|               |            |            |            |            | 12               | 0         | 21.85                  |
|               |            |            |            |            | 12               | 6         | 21.53                  |
|               |            |            |            |            | 12               | 11        | 21.50                  |
|               |            |            |            |            | 25               | 0         | 21.43                  |
|               |            | H<br>20375 | 1752.5     | QPSK       | 1                | 0         | 21.78                  |
|               |            |            |            |            | 1                | 12        | 21.63                  |
|               |            |            |            |            | 1                | 24        | 21.59                  |
|               |            |            |            |            | 12               | 0         | 21.61                  |
|               |            |            |            |            | 12               | 6         | 21.64                  |
|               |            |            |            |            | 12               | 11        | 21.55                  |
|               |            |            |            |            | 25               | 0         | 21.41                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.36                  |
|               |            |            |            |            | 1                | 12        | 21.44                  |
|               |            |            |            |            | 1                | 24        | 21.39                  |
|               |            |            |            |            | 12               | 0         | 21.35                  |
|               |            |            |            |            | 12               | 6         | 21.12                  |
|               |            |            |            |            | 12               | 11        | 21.14                  |
|               |            |            |            |            | 25               | 0         | 21.18                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.19                  |
|               |            |            |            |            | 1                | 12        | 22.10                  |
|               |            |            |            |            | 1                | 24        | 22.14                  |
|               |            |            |            |            | 12               | 0         | 22.05                  |
|               |            |            |            |            | 12               | 6         | 21.96                  |
|               |            |            |            |            | 12               | 11        | 21.97                  |
|               |            |            |            |            | 25               | 0         | 21.85                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.66                  |
|               |            |            |            |            | 1                | 12        | 21.45                  |
|               |            |            |            |            | 1                | 24        | 21.58                  |
|               |            |            |            |            | 12               | 0         | 21.87                  |
|               |            |            |            |            | 12               | 6         | 21.63                  |
|               |            |            |            |            | 12               | 11        | 21.39                  |
|               |            |            |            |            | 25               | 0         | 21.43                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 3MHz       | L<br>19965 | 1711.5     | QPSK       | 1                | 0         | 22.46                  |
|               |            |            |            |            | 1                | 7         | 22.32                  |
|               |            |            |            |            | 1                | 14        | 21.81                  |
|               |            |            |            |            | 8                | 0         | 21.34                  |
|               |            |            |            |            | 8                | 4         | 21.33                  |
|               |            |            |            |            | 8                | 7         | 21.09                  |
|               |            |            |            |            | 15               | 0         | 21.32                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.77                  |
|               |            |            |            |            | 1                | 7         | 21.97                  |
|               |            |            |            |            | 1                | 14        | 21.96                  |
|               |            |            |            |            | 8                | 0         | 21.84                  |
|               |            |            |            |            | 8                | 4         | 21.76                  |
|               |            |            |            |            | 8                | 7         | 21.55                  |
|               |            |            |            |            | 15               | 0         | 20.48                  |
|               |            | M<br>20175 | 1732.5     | QPSK       | 1                | 0         | 22.34                  |
|               |            |            |            |            | 1                | 7         | 22.19                  |
|               |            |            |            |            | 1                | 14        | 22.32                  |
|               |            |            |            |            | 8                | 0         | 21.28                  |
|               |            |            |            |            | 8                | 4         | 21.23                  |
|               |            |            |            |            | 8                | 7         | 21.22                  |
|               |            |            |            |            | 15               | 0         | 21.29                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.24                  |
|               |            |            |            |            | 1                | 7         | 21.23                  |
|               |            |            |            |            | 1                | 14        | 21.04                  |
|               |            |            |            |            | 8                | 0         | 21.06                  |
|               |            |            |            |            | 8                | 4         | 21.11                  |
|               |            |            |            |            | 8                | 7         | 21.13                  |
|               |            |            |            |            | 15               | 0         | 20.42                  |
|               |            | H<br>20385 | 1753.5     | QPSK       | 1                | 0         | 22.08                  |
|               |            |            |            |            | 1                | 7         | 22.19                  |
|               |            |            |            |            | 1                | 14        | 22.15                  |
|               |            |            |            |            | 8                | 0         | 21.24                  |
|               |            |            |            |            | 8                | 4         | 21.28                  |
|               |            |            |            |            | 8                | 7         | 21.09                  |
|               |            |            |            |            | 15               | 0         | 21.17                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.27                  |
|               |            |            |            |            | 1                | 7         | 21.05                  |
|               |            |            |            |            | 1                | 14        | 20.81                  |
|               |            |            |            |            | 8                | 0         | 20.56                  |
|               |            |            |            |            | 8                | 4         | 21.03                  |
|               |            |            |            |            | 8                | 7         | 21.10                  |
|               |            |            |            |            | 15               | 0         | 21.01                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 4 | 1.4MHz     | L<br>19957 | 1710.7     | QPSK       | 1                | 0         | 22.47                  |
|               |            |            |            |            | 1                | 2         | 22.46                  |
|               |            |            |            |            | 1                | 5         | 22.37                  |
|               |            |            |            |            | 3                | 0         | 22.49                  |
|               |            |            |            |            | 3                | 1         | 22.31                  |
|               |            |            |            |            | 3                | 2         | 22.14                  |
|               |            |            |            |            | 6                | 0         | 22.30                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.97                  |
|               |            |            |            |            | 1                | 2         | 22.01                  |
|               |            |            |            |            | 1                | 5         | 21.98                  |
|               |            |            |            |            | 3                | 0         | 21.78                  |
|               |            |            |            |            | 3                | 1         | 21.85                  |
|               |            |            |            |            | 3                | 2         | 21.63                  |
|               |            |            |            |            | 6                | 0         | 20.72                  |
|               |            | M<br>20175 | 1732.5     | QPSK       | 1                | 0         | 22.33                  |
|               |            |            |            |            | 1                | 2         | 22.27                  |
|               |            |            |            |            | 1                | 5         | 22.27                  |
|               |            |            |            |            | 3                | 0         | 22.31                  |
|               |            |            |            |            | 3                | 1         | 22.30                  |
|               |            |            |            |            | 3                | 2         | 22.36                  |
|               |            |            |            |            | 6                | 0         | 21.31                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.42                  |
|               |            |            |            |            | 1                | 2         | 21.47                  |
|               |            |            |            |            | 1                | 5         | 21.36                  |
|               |            |            |            |            | 3                | 0         | 21.53                  |
|               |            |            |            |            | 3                | 2         | 21.46                  |
|               |            |            |            |            | 3                | 5         | 21.22                  |
|               |            |            |            |            | 6                | 0         | 20.42                  |
|               |            | H<br>20393 | 1754.3     | QPSK       | 1                | 0         | 22.09                  |
|               |            |            |            |            | 1                | 2         | 22.27                  |
|               |            |            |            |            | 1                | 5         | 22.16                  |
|               |            |            |            |            | 3                | 0         | 22.12                  |
|               |            |            |            |            | 3                | 1         | 22.16                  |
|               |            |            |            |            | 3                | 2         | 22.18                  |
|               |            |            |            |            | 6                | 0         | 21.16                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.19                  |
|               |            |            |            |            | 1                | 2         | 21.29                  |
|               |            |            |            |            | 1                | 5         | 21.20                  |
|               |            |            |            |            | 3                | 0         | 21.21                  |
|               |            |            |            |            | 3                | 1         | 21.24                  |
|               |            |            |            |            | 3                | 2         | 21.23                  |
|               |            |            |            |            | 6                | 0         | 20.33                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 5 | 10MHz      | L<br>20450 | 829        | QPSK       | 1                | 0         | 22.48                  |
|               |            |            |            |            | 1                | 24        | 22.41                  |
|               |            |            |            |            | 1                | 49        | 22.26                  |
|               |            |            |            |            | 25               | 0         | 21.44                  |
|               |            |            |            |            | 25               | 12        | 21.56                  |
|               |            |            |            |            | 25               | 24        | 21.48                  |
|               |            |            |            |            | 50               | 0         | 21.66                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.49                  |
|               |            |            |            |            | 1                | 24        | 21.59                  |
|               |            |            |            |            | 1                | 49        | 21.54                  |
|               |            |            |            |            | 25               | 0         | 21.34                  |
|               |            |            |            |            | 25               | 12        | 21.51                  |
|               |            |            |            |            | 25               | 24        | 21.43                  |
|               |            |            |            |            | 50               | 0         | 20.60                  |
|               |            | M<br>20525 | 836.5      | QPSK       | 1                | 0         | 22.43                  |
|               |            |            |            |            | 1                | 24        | 22.33                  |
|               |            |            |            |            | 1                | 49        | 22.48                  |
|               |            |            |            |            | 25               | 0         | 21.61                  |
|               |            |            |            |            | 25               | 12        | 21.36                  |
|               |            |            |            |            | 25               | 24        | 21.37                  |
|               |            |            |            |            | 50               | 0         | 21.35                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.95                  |
|               |            |            |            |            | 1                | 24        | 21.48                  |
|               |            |            |            |            | 1                | 49        | 21.40                  |
|               |            |            |            |            | 25               | 0         | 21.48                  |
|               |            |            |            |            | 25               | 12        | 21.36                  |
|               |            |            |            |            | 25               | 24        | 21.21                  |
|               |            |            |            |            | 50               | 0         | 20.44                  |
|               |            | H<br>20600 | 844        | QPSK       | 1                | 0         | 22.41                  |
|               |            |            |            |            | 1                | 24        | 22.55                  |
|               |            |            |            |            | 1                | 49        | 22.39                  |
|               |            |            |            |            | 25               | 0         | 21.44                  |
|               |            |            |            |            | 25               | 12        | 21.38                  |
|               |            |            |            |            | 25               | 24        | 21.25                  |
|               |            |            |            |            | 50               | 0         | 21.43                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.37                  |
|               |            |            |            |            | 1                | 24        | 21.74                  |
|               |            |            |            |            | 1                | 49        | 21.33                  |
|               |            |            |            |            | 25               | 0         | 21.36                  |
|               |            |            |            |            | 25               | 12        | 21.34                  |
|               |            |            |            |            | 25               | 24        | 21.30                  |
|               |            |            |            |            | 50               | 0         | 20.41                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 5 | 5MHz       | L<br>20425 | 826.5      | QPSK       | 1                | 0         | 22.48                  |
|               |            |            |            |            | 1                | 12        | 22.43                  |
|               |            |            |            |            | 1                | 24        | 22.45                  |
|               |            |            |            |            | 12               | 0         | 22.36                  |
|               |            |            |            |            | 12               | 6         | 22.21                  |
|               |            |            |            |            | 12               | 11        | 22.31                  |
|               |            |            |            |            | 25               | 0         | 22.12                  |
|               |            | M<br>20525 | 836.5      | 16-QAM     | 1                | 0         | 21.58                  |
|               |            |            |            |            | 1                | 12        | 21.69                  |
|               |            |            |            |            | 1                | 24        | 21.57                  |
|               |            |            |            |            | 12               | 0         | 21.43                  |
|               |            |            |            |            | 12               | 6         | 21.36                  |
|               |            |            |            |            | 12               | 11        | 21.31                  |
|               |            |            |            |            | 25               | 0         | 21.20                  |
|               |            | H<br>20625 | 846.5      | QPSK       | 1                | 0         | 22.34                  |
|               |            |            |            |            | 1                | 12        | 22.12                  |
|               |            |            |            |            | 1                | 24        | 22.24                  |
|               |            |            |            |            | 12               | 0         | 22.25                  |
|               |            |            |            |            | 12               | 6         | 22.11                  |
|               |            |            |            |            | 12               | 11        | 22.13                  |
|               |            |            |            |            | 25               | 0         | 21.69                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.35                  |
|               |            |            |            |            | 1                | 12        | 21.48                  |
|               |            |            |            |            | 1                | 24        | 21.41                  |
|               |            |            |            |            | 12               | 0         | 21.36                  |
|               |            |            |            |            | 12               | 6         | 21.37                  |
|               |            |            |            |            | 12               | 11        | 21.23                  |
|               |            |            |            |            | 25               | 0         | 21.10                  |
|               |            |            |            | QPSK       | 1                | 0         | 22.49                  |
|               |            |            |            |            | 1                | 12        | 22.36                  |
|               |            |            |            |            | 1                | 24        | 22.31                  |
|               |            |            |            |            | 12               | 0         | 22.21                  |
|               |            |            |            |            | 12               | 6         | 22.23                  |
|               |            |            |            |            | 12               | 11        | 22.16                  |
|               |            |            |            |            | 25               | 0         | 21.69                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.34                  |
|               |            |            |            |            | 1                | 12        | 21.56                  |
|               |            |            |            |            | 1                | 24        | 21.46                  |
|               |            |            |            |            | 12               | 0         | 21.43                  |
|               |            |            |            |            | 12               | 6         | 21.37                  |
|               |            |            |            |            | 12               | 11        | 21.35                  |
|               |            |            |            |            | 25               | 0         | 21.12                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 5 | 3MHz       | L<br>20415 | 825.5      | QPSK       | 1                | 0         | 22.21                  |
|               |            |            |            |            | 1                | 7         | 22.36                  |
|               |            |            |            |            | 1                | 14        | 22.12                  |
|               |            |            |            |            | 8                | 0         | 22.13                  |
|               |            |            |            |            | 8                | 4         | 22.01                  |
|               |            |            |            |            | 8                | 7         | 21.99                  |
|               |            |            |            |            | 15               | 0         | 21.85                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.76                  |
|               |            |            |            |            | 1                | 7         | 21.71                  |
|               |            |            |            |            | 1                | 14        | 21.53                  |
|               |            |            |            |            | 8                | 0         | 21.64                  |
|               |            |            |            |            | 8                | 4         | 21.68                  |
|               |            |            |            |            | 8                | 7         | 21.63                  |
|               |            |            |            |            | 15               | 0         | 21.21                  |
|               |            | M<br>20525 | 836.5      | QPSK       | 1                | 0         | 22.34                  |
|               |            |            |            |            | 1                | 7         | 22.36                  |
|               |            |            |            |            | 1                | 14        | 22.38                  |
|               |            |            |            |            | 8                | 0         | 22.23                  |
|               |            |            |            |            | 8                | 4         | 22.21                  |
|               |            |            |            |            | 8                | 7         | 22.19                  |
|               |            |            |            |            | 15               | 0         | 21.89                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.75                  |
|               |            |            |            |            | 1                | 7         | 21.79                  |
|               |            |            |            |            | 1                | 14        | 21.69                  |
|               |            |            |            |            | 8                | 0         | 21.53                  |
|               |            |            |            |            | 8                | 4         | 21.34                  |
|               |            |            |            |            | 8                | 7         | 21.31                  |
|               |            |            |            |            | 15               | 0         | 21.20                  |
|               |            | H<br>20635 | 847.5      | QPSK       | 1                | 0         | 21.63                  |
|               |            |            |            |            | 1                | 7         | 21.58                  |
|               |            |            |            |            | 1                | 14        | 21.64                  |
|               |            |            |            |            | 8                | 0         | 21.36                  |
|               |            |            |            |            | 8                | 4         | 21.34                  |
|               |            |            |            |            | 8                | 7         | 21.23                  |
|               |            |            |            |            | 15               | 0         | 21.25                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.16                  |
|               |            |            |            |            | 1                | 7         | 21.24                  |
|               |            |            |            |            | 1                | 14        | 21.19                  |
|               |            |            |            |            | 8                | 0         | 21.05                  |
|               |            |            |            |            | 8                | 4         | 21.03                  |
|               |            |            |            |            | 8                | 7         | 21.05                  |
|               |            |            |            |            | 15               | 0         | 21.01                  |



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| Band          | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|---------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|               |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 5 | 1.4MHz     | L<br>20407 | 824.7      | QPSK       | 1                | 0         | 22.30                  |
|               |            |            |            |            | 1                | 2         | 22.29                  |
|               |            |            |            |            | 1                | 5         | 22.29                  |
|               |            |            |            |            | 3                | 0         | 22.33                  |
|               |            |            |            |            | 3                | 1         | 22.23                  |
|               |            |            |            |            | 3                | 2         | 22.19                  |
|               |            |            |            |            | 6                | 0         | 21.33                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.45                  |
|               |            |            |            |            | 1                | 2         | 21.53                  |
|               |            |            |            |            | 1                | 5         | 21.34                  |
|               |            |            |            |            | 3                | 0         | 21.25                  |
|               |            |            |            |            | 3                | 1         | 21.13                  |
|               |            |            |            |            | 3                | 2         | 21.17                  |
|               |            |            |            |            | 6                | 0         | 20.51                  |
|               |            | M<br>20525 | 836.5      | QPSK       | 1                | 0         | 22.37                  |
|               |            |            |            |            | 1                | 2         | 22.44                  |
|               |            |            |            |            | 1                | 5         | 22.37                  |
|               |            |            |            |            | 3                | 0         | 22.30                  |
|               |            |            |            |            | 3                | 1         | 22.34                  |
|               |            |            |            |            | 3                | 2         | 22.26                  |
|               |            |            |            |            | 6                | 0         | 21.40                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 21.53                  |
|               |            |            |            |            | 1                | 2         | 21.60                  |
|               |            |            |            |            | 1                | 5         | 21.41                  |
|               |            |            |            |            | 3                | 0         | 21.36                  |
|               |            |            |            |            | 3                | 2         | 21.49                  |
|               |            |            |            |            | 3                | 5         | 21.53                  |
|               |            |            |            |            | 6                | 0         | 20.72                  |
|               |            | H<br>20643 | 848.3      | QPSK       | 1                | 0         | 22.26                  |
|               |            |            |            |            | 1                | 2         | 22.38                  |
|               |            |            |            |            | 1                | 5         | 22.02                  |
|               |            |            |            |            | 3                | 0         | 22.40                  |
|               |            |            |            |            | 3                | 1         | 22.31                  |
|               |            |            |            |            | 3                | 2         | 22.32                  |
|               |            |            |            |            | 6                | 0         | 22.52                  |
|               |            |            |            | 16-QAM     | 1                | 0         | 22.13                  |
|               |            |            |            |            | 1                | 2         | 22.09                  |
|               |            |            |            |            | 1                | 5         | 21.99                  |
|               |            |            |            |            | 3                | 0         | 21.68                  |
|               |            |            |            |            | 3                | 1         | 21.57                  |
|               |            |            |            |            | 3                | 2         | 21.43                  |
|               |            |            |            |            | 6                | 0         | 20.69                  |



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| Band           | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|----------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|                |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 12 | 10MHz      | L<br>23060 | 704        | QPSK       | 1                | 0         | 22.32                  |
|                |            |            |            |            | 1                | 24        | 22.41                  |
|                |            |            |            |            | 1                | 49        | 22.42                  |
|                |            |            |            |            | 25               | 0         | 21.45                  |
|                |            |            |            |            | 25               | 12        | 21.41                  |
|                |            |            |            |            | 25               | 24        | 21.47                  |
|                |            |            |            |            | 50               | 0         | 21.36                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.65                  |
|                |            |            |            |            | 1                | 24        | 22.12                  |
|                |            |            |            |            | 1                | 49        | 22.29                  |
|                |            |            |            |            | 25               | 0         | 21.96                  |
|                |            |            |            |            | 25               | 12        | 21.89                  |
|                |            |            |            |            | 25               | 24        | 21.76                  |
|                |            |            |            |            | 50               | 0         | 20.50                  |
|                |            | M<br>23095 | 707.5      | QPSK       | 1                | 0         | 22.50                  |
|                |            |            |            |            | 1                | 24        | 22.51                  |
|                |            |            |            |            | 1                | 49        | 22.38                  |
|                |            |            |            |            | 25               | 0         | 21.51                  |
|                |            |            |            |            | 25               | 12        | 21.44                  |
|                |            |            |            |            | 25               | 24        | 21.36                  |
|                |            |            |            |            | 50               | 0         | 21.43                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.47                  |
|                |            |            |            |            | 1                | 24        | 21.54                  |
|                |            |            |            |            | 1                | 49        | 21.63                  |
|                |            |            |            |            | 25               | 0         | 21.58                  |
|                |            |            |            |            | 25               | 12        | 21.36                  |
|                |            |            |            |            | 25               | 24        | 21.43                  |
|                |            |            |            |            | 50               | 0         | 20.41                  |
|                |            | H<br>23130 | 711        | QPSK       | 1                | 0         | 22.48                  |
|                |            |            |            |            | 1                | 24        | 22.81                  |
|                |            |            |            |            | 1                | 49        | 22.42                  |
|                |            |            |            |            | 25               | 0         | 21.54                  |
|                |            |            |            |            | 25               | 12        | 21.51                  |
|                |            |            |            |            | 25               | 24        | 21.47                  |
|                |            |            |            |            | 50               | 0         | 21.45                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.65                  |
|                |            |            |            |            | 1                | 24        | 21.46                  |
|                |            |            |            |            | 1                | 49        | 21.40                  |
|                |            |            |            |            | 25               | 0         | 21.34                  |
|                |            |            |            |            | 25               | 12        | 21.31                  |
|                |            |            |            |            | 25               | 24        | 21.23                  |
|                |            |            |            |            | 50               | 0         | 20.53                  |



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| Band           | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|----------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|                |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 12 | 5MHz       | L<br>23035 | 701.5      | QPSK       | 1                | 0         | 22.41                  |
|                |            |            |            |            | 1                | 12        | 22.34                  |
|                |            |            |            |            | 1                | 24        | 22.22                  |
|                |            |            |            |            | 12               | 0         | 21.92                  |
|                |            |            |            |            | 12               | 6         | 21.86                  |
|                |            |            |            |            | 12               | 11        | 21.54                  |
|                |            |            |            |            | 25               | 0         | 20.61                  |
|                |            | M<br>23095 | 707.5      | 16-QAM     | 1                | 0         | 21.95                  |
|                |            |            |            |            | 1                | 12        | 21.96                  |
|                |            |            |            |            | 1                | 24        | 21.91                  |
|                |            |            |            |            | 12               | 0         | 20.87                  |
|                |            |            |            |            | 12               | 6         | 20.74                  |
|                |            |            |            |            | 12               | 11        | 20.51                  |
|                |            |            |            |            | 25               | 0         | 20.21                  |
|                |            | H<br>23155 | 713.5      | QPSK       | 1                | 0         | 22.36                  |
|                |            |            |            |            | 1                | 12        | 22.25                  |
|                |            |            |            |            | 1                | 24        | 22.15                  |
|                |            |            |            |            | 12               | 0         | 21.85                  |
|                |            |            |            |            | 12               | 6         | 21.21                  |
|                |            |            |            |            | 12               | 11        | 21.56                  |
|                |            |            |            |            | 25               | 0         | 20.44                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.54                  |
|                |            |            |            |            | 1                | 12        | 21.57                  |
|                |            |            |            |            | 1                | 24        | 21.44                  |
|                |            |            |            |            | 12               | 0         | 21.23                  |
|                |            |            |            |            | 12               | 6         | 21.29                  |
|                |            |            |            |            | 12               | 11        | 20.69                  |
|                |            |            |            |            | 25               | 0         | 20.58                  |
|                |            |            |            | QPSK       | 1                | 0         | 22.41                  |
|                |            |            |            |            | 1                | 12        | 22.43                  |
|                |            |            |            |            | 1                | 24        | 22.52                  |
|                |            |            |            |            | 12               | 0         | 21.49                  |
|                |            |            |            |            | 12               | 6         | 21.51                  |
|                |            |            |            |            | 12               | 11        | 21.52                  |
|                |            |            |            |            | 25               | 0         | 20.50                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.23                  |
|                |            |            |            |            | 1                | 12        | 21.25                  |
|                |            |            |            |            | 1                | 24        | 21.34                  |
|                |            |            |            |            | 12               | 0         | 21.54                  |
|                |            |            |            |            | 12               | 6         | 21.12                  |
|                |            |            |            |            | 12               | 11        | 21.27                  |
|                |            |            |            |            | 25               | 0         | 21.05                  |



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| Band           | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|----------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|                |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 12 | 3MHz       | L<br>23025 | 700.5      | QPSK       | 1                | 0         | 22.64                  |
|                |            |            |            |            | 1                | 7         | 22.56                  |
|                |            |            |            |            | 1                | 14        | 22.23                  |
|                |            |            |            |            | 8                | 0         | 22.34                  |
|                |            |            |            |            | 8                | 4         | 22.08                  |
|                |            |            |            |            | 8                | 7         | 22.12                  |
|                |            |            |            |            | 15               | 0         | 22.01                  |
|                |            | M<br>23095 | 707.5      | 16-QAM     | 1                | 0         | 21.56                  |
|                |            |            |            |            | 1                | 7         | 21.36                  |
|                |            |            |            |            | 1                | 14        | 21.48                  |
|                |            |            |            |            | 8                | 0         | 21.57                  |
|                |            |            |            |            | 8                | 4         | 21.69                  |
|                |            |            |            |            | 8                | 7         | 21.32                  |
|                |            |            |            |            | 15               | 0         | 21.23                  |
|                |            |            |            | QPSK       | 1                | 0         | 22.34                  |
|                |            |            |            |            | 1                | 7         | 22.36                  |
|                |            |            |            |            | 1                | 14        | 22.31                  |
|                |            |            |            |            | 8                | 0         | 22.12                  |
|                |            |            |            |            | 8                | 4         | 22.28                  |
|                |            |            |            |            | 8                | 7         | 22.27                  |
|                |            |            |            |            | 15               | 0         | 21.96                  |
|                |            | H<br>23165 | 714.5      | 16-QAM     | 1                | 0         | 21.12                  |
|                |            |            |            |            | 1                | 7         | 21.36                  |
|                |            |            |            |            | 1                | 14        | 21.34                  |
|                |            |            |            |            | 8                | 0         | 21.23                  |
|                |            |            |            |            | 8                | 4         | 20.85                  |
|                |            |            |            |            | 8                | 7         | 20.57                  |
|                |            |            |            |            | 15               | 0         | 20.67                  |
|                |            |            |            | QPSK       | 1                | 0         | 22.12                  |
|                |            |            |            |            | 1                | 7         | 22.03                  |
|                |            |            |            |            | 1                | 14        | 21.85                  |
|                |            |            |            |            | 8                | 0         | 21.64                  |
|                |            |            |            |            | 8                | 4         | 22.04                  |
|                |            |            |            |            | 8                | 7         | 21.69                  |
|                |            |            |            |            | 15               | 0         | 21.87                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.53                  |
|                |            |            |            |            | 1                | 7         | 21.46                  |
|                |            |            |            |            | 1                | 14        | 21.31                  |
|                |            |            |            |            | 8                | 0         | 21.27                  |
|                |            |            |            |            | 8                | 4         | 21.36                  |
|                |            |            |            |            | 8                | 7         | 21.43                  |
|                |            |            |            |            | 15               | 0         | 21.52                  |



REPORT No.: SZ16030142W05

| Band           | Band Width | Channel    | Freq.(MHz) | Modulation | RB Configuration |           | Average Power<br>(dBm) |
|----------------|------------|------------|------------|------------|------------------|-----------|------------------------|
|                |            |            |            |            | RB Size          | RB Offset |                        |
| LTE<br>Band 12 | 1.4MHz     | L<br>23017 | 699.7      | QPSK       | 1                | 0         | 22.46                  |
|                |            |            |            |            | 1                | 2         | 22.60                  |
|                |            |            |            |            | 1                | 5         | 22.61                  |
|                |            |            |            |            | 3                | 0         | 22.47                  |
|                |            |            |            |            | 3                | 1         | 22.54                  |
|                |            |            |            |            | 3                | 2         | 22.60                  |
|                |            |            |            |            | 6                | 0         | 21.39                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.70                  |
|                |            |            |            |            | 1                | 2         | 21.91                  |
|                |            |            |            |            | 1                | 5         | 22.28                  |
|                |            |            |            |            | 3                | 0         | 22.36                  |
|                |            |            |            |            | 3                | 1         | 21.87                  |
|                |            |            |            |            | 3                | 2         | 21.63                  |
|                |            |            |            |            | 6                | 0         | 20.67                  |
|                |            | M<br>23095 | 707.5      | QPSK       | 1                | 0         | 22.23                  |
|                |            |            |            |            | 1                | 2         | 22.73                  |
|                |            |            |            |            | 1                | 5         | 22.63                  |
|                |            |            |            |            | 3                | 0         | 22.62                  |
|                |            |            |            |            | 3                | 1         | 22.43                  |
|                |            |            |            |            | 3                | 2         | 22.33                  |
|                |            |            |            |            | 6                | 0         | 21.65                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.33                  |
|                |            |            |            |            | 1                | 2         | 21.36                  |
|                |            |            |            |            | 1                | 5         | 21.18                  |
|                |            |            |            |            | 3                | 0         | 21.23                  |
|                |            |            |            |            | 3                | 2         | 21.10                  |
|                |            |            |            |            | 3                | 5         | 21.03                  |
|                |            |            |            |            | 6                | 0         | 21.01                  |
|                |            | H<br>23173 | 715.3      | QPSK       | 1                | 0         | 20.26                  |
|                |            |            |            |            | 1                | 2         | 22.49                  |
|                |            |            |            |            | 1                | 5         | 22.64                  |
|                |            |            |            |            | 3                | 0         | 22.52                  |
|                |            |            |            |            | 3                | 1         | 22.53                  |
|                |            |            |            |            | 3                | 2         | 22.41                  |
|                |            |            |            |            | 6                | 0         | 22.40                  |
|                |            |            |            | 16-QAM     | 1                | 0         | 21.55                  |
|                |            |            |            |            | 1                | 2         | 21.63                  |
|                |            |            |            |            | 1                | 5         | 21.56                  |
|                |            |            |            |            | 3                | 0         | 21.61                  |
|                |            |            |            |            | 3                | 1         | 21.52                  |
|                |            |            |            |            | 3                | 2         | 21.43                  |
|                |            |            |            |            | 6                | 0         | 20.50                  |



## 2.2 Occupied Bandwidth

### 2.2.1 Definition

According to FCC section 2.1049 and 27.53(g), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2 Test Description

See section 2.1.2 of this report.

### 2.2.3 Test Results

#### LTE Band 2

##### Low channel:

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 18607                     | 1850.7          | 1.0965               | 1.1001 | 18615                   | 1851.5          | 2.7224              | 2.7109 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 18607                     | 1850.7          | 1.294                | 1.289  | 18615                   | 1851.5          | 3.004               | 3.028  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18625                   | 1852.5          | 4.5272               | 4.5322 | 18650                    | 1855.0          | 8.9823              | 8.9753 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18625                   | 1852.5          | 5.055                | 5.027  | 18650                    | 1855.0          | 9.803               | 9.820  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18675                    | 1857.5          | 13.457               | 13.502 | 18700                    | 1860.0          | 17.966              | 17.956 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18675                    | 1857.5          | 14.55                | 14.65  | 18700                    | 1860.0          | 19.51               | 19.62  |

**Middle channel:**

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 18900                     | 1880.0          | 1.0985               | 1.1042 | 18900                   | 1880.0          | 2.7128              | 2.7231 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 18900                     | 1880.0          | 1.301                | 1.305  | 18900                   | 1880.0          | 3.001               | 2.986  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18900                   | 1880.0          | 4.5342               | 4.5293 | 18900                    | 1880.0          | 9.0001              | 8.9897 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18900                   | 1880.0          | 5.029                | 5.040  | 18900                    | 1880.0          | 10.010              | 9.906  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18900                    | 1880.0          | 13.519               | 13.501 | 18900                    | 1880.0          | 17.981              | 17.939 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 18900                    | 1880.0          | 14.87                | 14.69  | 18900                    | 1880.0          | 19.48               | 19.49  |

**High channel:**

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 19192                     | 1909.2          | 1.0947               | 1.1033 | 19184                   | 1908.4          | 2.7126              | 2.7147 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 19192                     | 1909.2          | 1.293                | 1.295  | 19184                   | 1908.4          | 3.009               | 3.019  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19175                   | 1907.5          | 4.5206               | 4.5203 | 19150                    | 1905.0          | 8.9792              | 8.9880 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19175                   | 1907.5          | 5.001                | 5.029  | 19150                    | 1905.0          | 9.892               | 9.926  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19125                    | 1902.5          | 13.541               | 13.488 | 19100                    | 1900.0          | 17.950              | 18.004 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19125                    | 1902.5          | 14.88                | 14.75  | 19100                    | 1900.0          | 19.53               | 19.69  |



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Low channel:

### Spectrum Plot of Worst Value

#### 1.4MHz/QPSK

#### 1.4MHz/16QAM



### Spectrum Plot of Worst Value

#### 3MHz/QPSK

#### 3MHz/16QAM

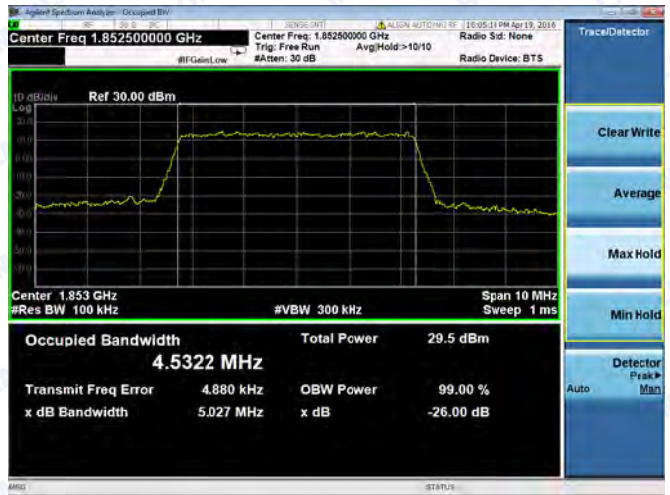




## Spectrum Plot of Worst Value

## 5MHz/QPSK

## 5MHz/16QAM



## Spectrum Plot of Worst Value

## 10MHz/QPSK

## 10MHz/16QAM





## Spectrum Plot of Worst Value

## 15MHz/QPSK

## 15MHz/16QAM



## Spectrum Plot of Worst Value

## 20MHz/QPSK

## 20MHz/16QAM





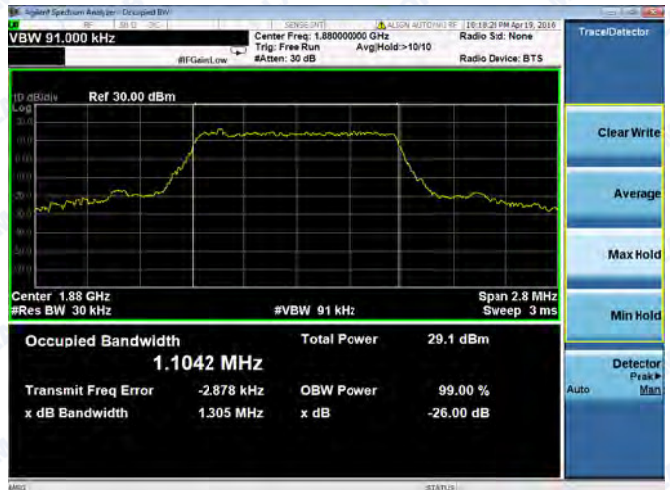
REPORT No.: SZ16030142W05

Middle channel:

### Spectrum Plot of Worst Value

#### 1.4MHz/QPSK

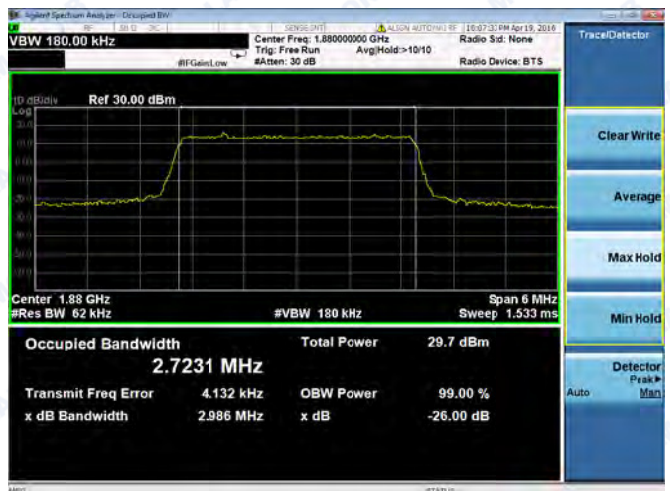
#### 1.4MHz/16QAM



### Spectrum Plot of Worst Value

#### 3MHz/QPSK

#### 3MHz/16QAM





## Spectrum Plot of Worst Value

## 5MHz/QPSK

## 5MHz/16QAM



## Spectrum Plot of Worst Value

## 10MHz/QPSK

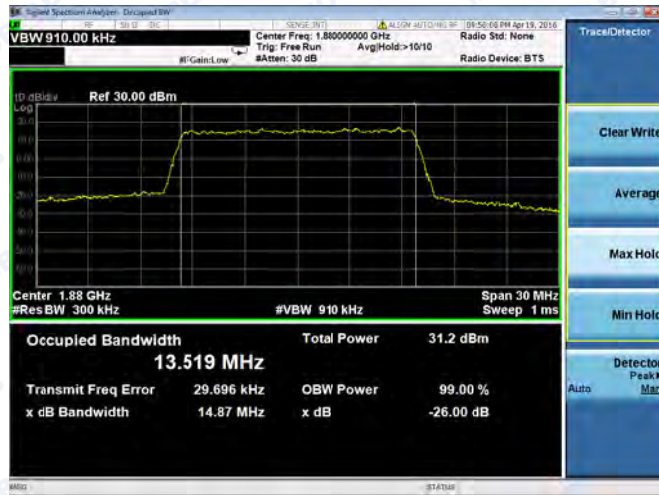
## 10MHz/16QAM





## Spectrum Plot of Worst Value

## 15MHz/QPSK



## 15MHz/16QAM



## Spectrum Plot of Worst Value

## 20MHz/QPSK



## 20MHz/16QAM





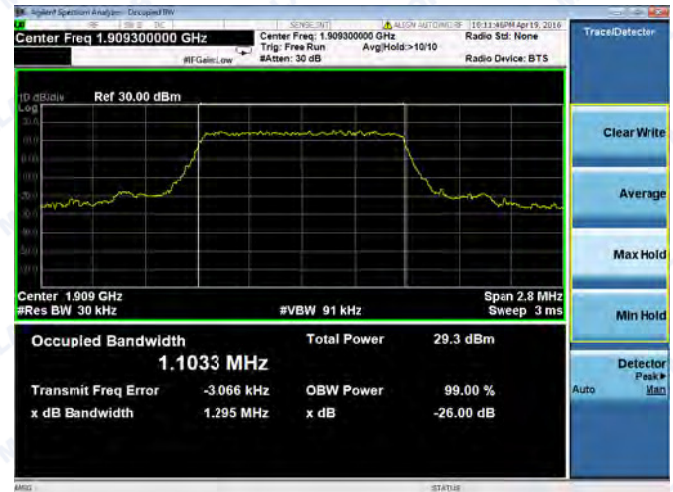
REPORT No.: SZ16030142W05

High channel:

### Spectrum Plot of Worst Value

#### 1.4MHz/QPSK

#### 1.4MHz/16QAM



### Spectrum Plot of Worst Value

#### 3MHz/QPSK

#### 3MHz/16QAM





## Spectrum Plot of Worst Value

## 5MHz/QPSK

## 5MHz/16QAM



## Spectrum Plot of Worst Value

## 10MHz/QPSK

## 10MHz/16QAM

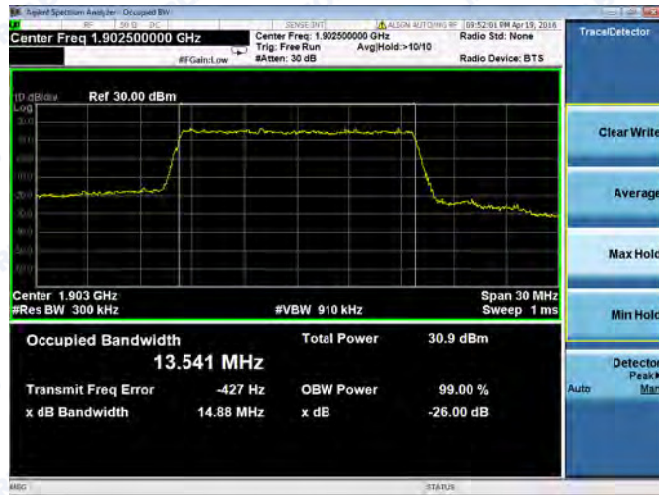




## Spectrum Plot of Worst Value

## 15MHz/QPSK

## 15MHz/16QAM



## Spectrum Plot of Worst Value

## 20MHz/QPSK

## 20MHz/16QAM





## LTE Band 4

## Low channel:

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 19957                     | 1710.7          | 1.1025               | 1.0928 | 19965                   | 1711.5          | 2.7163              | 2.7078 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 19957                     | 1710.7          | 1.307                | 1.307  | 19965                   | 1711.5          | 2.986               | 2.998  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19975                   | 1712.5          | 4.5261               | 4.5213 | 20000                    | 1715.0          | 8.9545              | 8.9749 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 19975                   | 1712.5          | 5.037                | 5.021  | 20000                    | 1715.0          | 9.855               | 9.898  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20025                    | 1717.5          | 13.440               | 13.453 | 20050                    | 1720.0          | 17.954              | 17.975 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20025                    | 1717.5          | 14.72                | 14.66  | 20050                    | 1720.0          | 19.60               | 19.56  |

**Middle channel:**

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 20175                     | 1732.5          | 1.1001               | 1.1075 | 20175                   | 1732.5          | 2.7148              | 2.7239 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 20175                     | 1732.5          | 1.356                | 1.326  | 20175                   | 1732.5          | 2.997               | 3.032  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20175                   | 1732.5          | 4.5156               | 4.5281 | 20175                    | 1732.5          | 8.9790              | 8.9865 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20175                   | 1732.5          | 5.017                | 5.063  | 20175                    | 1732.5          | 9.932               | 9.894  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20175                    | 1732.5          | 13.495               | 13.505 | 20175                    | 1732.5          | 17.995              | 18.040 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20175                    | 1732.5          | 14.73                | 14.77  | 20175                    | 1732.5          | 19.50               | 19.62  |



## High channel:

| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
|---------------------------|-----------------|----------------------|--------|-------------------------|-----------------|---------------------|--------|
| Channel                   | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                 | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 20392                     | 1754.2          | 1.1001               | 1.1061 | 20384                   | 1753.4          | 2.7135              | 2.7154 |
| Channel Bandwidth: 1.4MHz |                 |                      |        | Channel Bandwidth: 3MHz |                 |                     |        |
| Channel                   | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                 | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                           |                 | QPSK                 | 16QAM  |                         |                 | QPSK                | 16QAM  |
| 20392                     | 1754.2          | 1.356                | 1.342  | 20384                   | 1753.4          | 2.996               | 3.043  |

| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
|-------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                 | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20375                   | 1752.5          | 4.5156               | 4.5214 | 20350                    | 1750.0          | 8.9881              | 8.9761 |
| Channel Bandwidth: 5MHz |                 |                      |        | Channel Bandwidth: 10MHz |                 |                     |        |
| Channel                 | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                         |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20375                   | 1752.5          | 5.010                | 5.049  | 20350                    | 1750.0          | 9.924               | 9.819  |

| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
|--------------------------|-----------------|----------------------|--------|--------------------------|-----------------|---------------------|--------|
| Channel                  | Frequency (MHz) | 99% Bandwidth (MHz)  |        | Channel                  | Frequency (MHz) | 99% Bandwidth(MHz)  |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20325                    | 1747.5          | 13.450               | 13.445 | 20300                    | 1745.0          | 17.923              | 17.972 |
| Channel Bandwidth: 15MHz |                 |                      |        | Channel Bandwidth: 20MHz |                 |                     |        |
| Channel                  | Frequency (MHz) | 26dB Bandwidth (MHz) |        | Channel                  | Frequency (MHz) | 26dB Bandwidth(MHz) |        |
|                          |                 | QPSK                 | 16QAM  |                          |                 | QPSK                | 16QAM  |
| 20325                    | 1747.5          | 14.75                | 14.66  | 20300                    | 1745.0          | 19.36               | 19.45  |