

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

For

**TECNO MOBILE LIMITED**

FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET  
FOTAN NT Hong Kong

**FCC ID: 2ADYY-KF6K**

|                                                                                                                                                                                                                                                                                                                     |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Report Type:</b><br>Original Report                                                                                                                                                                                                                                                                              | <b>Product Type:</b><br>Mobile phone |
| <b>Report Number:</b> SZ1210201-03817E-00E                                                                                                                                                                                                                                                                          |                                      |
| <b>Report Date:</b> 2021-04-06                                                                                                                                                                                                                                                                                      |                                      |
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## GENERAL INFORMATION

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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | Mobile phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tested Model           | KF6k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Frequency Range        | EGSM 850: 824-849MHz(TX); 869-894MHz(RX)<br>PCS 1900: 1850-1910MHz(TX); 1930-1990MHz(RX)<br>WCDMA Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX)<br>WCDMA Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX)<br>WCDMA Band 5: 824-849MHz(TX); 869-894MHz(RX)<br>LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX)<br>LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX)<br>LTE Band 5: 824-849MHz(TX); 869-894MHz(RX)<br>LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX)<br>LTE Band 17: 704-716MHz(TX); 734-746MHz(RX)<br>LTE Band 38: 2570-2620MHz(TX/RX)<br>LTE Band 41: 2535-2655MHz(TX/RX)<br>LTE Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX) |
| Modulation Technique   | 2G: GMSK, 8PSK<br>3G: BPSK, QPSK, 16QAM<br>4G: QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Antenna Specification* | EGSM850/ WCDMA Band 5/ LTE Band 5: -1.6dBi<br>PCS1900/WCDMA Band 2/ LTE Band 2: -0.5dBi<br>WCDMA Band 4/ LTE Band 4/ LTE Band 66: -0.7dBi<br>LTE Band 7/LTE Band 38/LTE Band 41: -0.4dBi<br>LTE Band 17: -1.9dBi (provided by the applicant)                                                                                                                                                                                                                                                                                                                                                                                   |
| Voltage Range          | DC 3.87V from battery or DC 5.0V from adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Date of Test           | 2021-01-18 to 2021-04-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sample serial number   | SZ1210201-03817E-RF-S1(RSE&CE Test),<br>SZ1210201-03817E-RF-S2(RF Conducted Test)<br>(Assigned by BACL, Shenzhen)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Received date          | 2021-02-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sample/EUT Status      | Good condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Adapter information    | Model: U100TSA<br>Input: AC 100-240V, 50/60Hz, 0.3A<br>Output: DC 5.0V, 2.0A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H and Part 24-Subpart E and Subpart 27 of the Federal Communication Commissions rules.

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

## Test Methodology

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

Part 22 Subpart H - Public Mobile Services  
 Part 24 Subpart E - Personal Communication Services  
 Part 27 – Miscellaneous wireless communications services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

| Parameter                    |            | Uncertainty |
|------------------------------|------------|-------------|
| Occupied Channel Bandwidth   |            | ±5%         |
| RF output power, conducted   |            | ±0.73dB     |
| Unwanted Emission, conducted |            | ±1.6dB      |
| Emissions,<br>Radiated       | Below 1GHz | ±4.75dB     |
|                              | Above 1GHz | ±4.88dB     |
| Temperature                  |            | ±1 °C       |
| Humidity                     |            | ±6%         |
| Supply voltages              |            | ±0.4%       |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

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

Test was performed as below table:

| Frequency band | Bandwidth (MHz) | Test Frequency(MHz) |        |        |
|----------------|-----------------|---------------------|--------|--------|
|                |                 | Low                 | Middle | High   |
| EGSM850        | 0.25            | 824.2               | 836.6  | 848.8  |
| DCS1900        | 0.25            | 1850.2              | 1880   | 1909.8 |
| WCDMA B2       | 4.2             | 1852.4              | 1880   | 1907.6 |
| WCDMA B4       | 4.2             | 1712.4              | 1732.6 | 1752.6 |
| WCDMA B5       | 4.2             | 826.4               | 836.6  | 846.6  |
| LTE B2         | 1.4             | 1850.7              | 1880   | 1909.3 |
|                | 3               | 1851.5              | 1880   | 1908.5 |
|                | 5               | 1852.5              | 1880   | 1907.5 |
|                | 10              | 1855                | 1880   | 1905   |
|                | 15              | 1857.5              | 1880   | 1902.5 |
|                | 20              | 1860                | 1880   | 1900   |
| LTE B4         | 1.4             | 1710.7              | 1732.5 | 1754.3 |
|                | 3               | 1711.5              | 1732.5 | 1753.5 |
|                | 5               | 1712.5              | 1732.5 | 1752.5 |
|                | 10              | 1715                | 1732.5 | 1750   |
|                | 15              | 1717.5              | 1732.5 | 1747.5 |
|                | 20              | 1720                | 1732.5 | 1745   |
| LTE B5         | 1.4             | 824.7               | 836.5  | 848.3  |
|                | 3               | 825.5               | 836.5  | 847.5  |
|                | 5               | 826.5               | 836.5  | 846.5  |
|                | 10              | 829                 | 836.5  | 844    |
| LTE B7         | 5               | 2502.5              | 2535   | 2567.5 |
|                | 10              | 2505                | 2535   | 2565   |
|                | 15              | 2507.5              | 2535   | 2562.5 |
|                | 20              | 2510                | 2535   | 2560   |
| LTE B17        | 5               | 706.5               | 710    | 713.5  |
|                | 10              | 709                 | 710    | 711    |
| LTE B38        | 5               | 2572.5              | 2595   | 2617.5 |
|                | 10              | 2575                | 2595   | 2615   |
|                | 15              | 2577.5              | 2595   | 2612.5 |
|                | 20              | 2580                | 2595   | 2610   |

| Frequency band | Bandwidth (MHz) | Test Frequency(MHz) |        |        |
|----------------|-----------------|---------------------|--------|--------|
|                |                 | Low                 | Middle | High   |
| LTE B41        | 5               | 2537.5              | 2593   | 2652.5 |
|                | 10              | 2540                | 2593   | 2650   |
|                | 15              | 2542.5              | 2593   | 2647.5 |
|                | 20              | 2545                | 2593   | 2645   |
| LTE B66        | 1.4             | 1710.7              | 1745   | 1779.3 |
|                | 3               | 1711.5              | 1745   | 1778.5 |
|                | 5               | 1712.5              | 1745   | 1777.5 |
|                | 10              | 1715                | 1745   | 1775   |
|                | 15              | 1717.5              | 1745   | 1772.5 |
|                | 20              | 1720                | 1745   | 1770   |

### Equipment Modifications

No modification was made to the EUT.

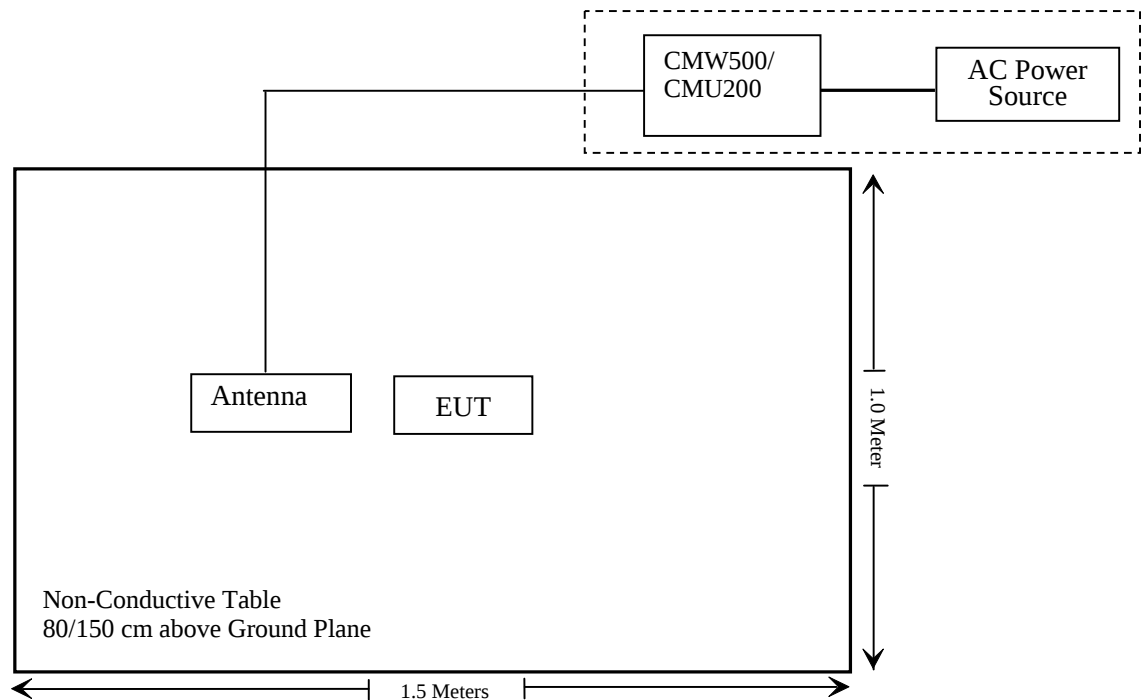
### Support Equipment List and Details

| Manufacturer    | Description                          | Model  | Serial Number        |
|-----------------|--------------------------------------|--------|----------------------|
| Rohde & Schwarz | Wideband Radio Communication Tester  | CMW500 | 1201.002K50-116218-U |
| Rohde & Schwarz | Universal Radio Communication Tester | CMU200 | 115500               |

### Support Cable Description

| Cable Description                 | Length (m) | From / Port | To                |
|-----------------------------------|------------|-------------|-------------------|
| Unshielded Un-detachable AC cable | 1.2        | AC Power    | CMW500/<br>CMU200 |

Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

| FCC Rules                                                  | Description of Test                    | Result         |
|------------------------------------------------------------|----------------------------------------|----------------|
| § 1.1307 , §2.1093                                         | RF Exposure (SAR)                      | Compliance*    |
| §2.1046; § 22.913 (a);<br>§ 24.232 (c); §27.50 (c) (d) (h) | RF Output Power                        | Compliance     |
| § 2.1047                                                   | Modulation Characteristics             | Not Applicable |
| § 2.1049; § 22.905;<br>§ 22.917; § 24.238; §27.53          | Occupied Bandwidth                     | Compliance     |
| § 2.1051; § 22.917 (a);<br>§ 24.238 (a); §27.53            | Spurious Emissions at Antenna Terminal | Compliance     |
| § 2.1053; § 22.917 (a);<br>§ 24.238 (a); §27.53            | Field Strength of Spurious Radiation   | Compliance     |
| § 22.917 (a);<br>§ 24.238 (a); §27.53(c)(h) (m)            | Band Edge                              | Compliance     |
| § 2.1055; § 22.355;<br>§ 24.235; §27.54;                   | Frequency stability                    | Compliance     |

Note: \* Please refer to SAR report released by BACL, report number: SZ1210201-03817E-SA.

**TEST EQUIPMENT LIST**

| Manufacturer                  | Description       | Model           | Serial Number   | Calibration Date | Calibration Due Date |
|-------------------------------|-------------------|-----------------|-----------------|------------------|----------------------|
| <b>Radiated Emission Test</b> |                   |                 |                 |                  |                      |
| R&S                           | EMI Test Receiver | ESR3            | 102455          | 2020/08/04       | 2021/08/03           |
| Sonoma instrument             | Pre-amplifier     | 310 N           | 186238          | 2020/08/04       | 2021/08/03           |
| Sunol Sciences                | Broadband Antenna | JB1             | A040904-2       | 2020/12/22       | 2023/12/21           |
| COM-POWER                     | Dipole Antenna    | AD-100          | 721027          | NCR              | NCR                  |
| Unknown                       | Cable 2           | RF Cable 2      | F-03-EM197      | 2020/11/29       | 2021/11/28           |
| Unknown                       | Cable             | Chamber Cable 1 | F-03-EM236      | 2020/11/29       | 2021/11/28           |
| Rohde & Schwarz               | Spectrum Analyzer | FSV40-N         | 102259          | 2020/08/04       | 2021/08/03           |
| COM-POWER                     | Pre-amplifier     | PA-122          | 181919          | 2020/11/29       | 2021/11/28           |
| Quinstar                      | Amplifier         | QLW-18405536-J0 | 15964001002     | 2020/11/29       | 2021/11/28           |
| Sunol Sciences                | Horn Antenna      | 3115            | 9107-3694       | 2021/01/15       | 2024/01/14           |
| A.H.System                    | Horn Antenna      | SAS-200/571     | 135             | 2018/09/01       | 2021/08/31           |
| Insulted Wire Inc.            | RF Cable          | SPS-2503-3150   | 02222010        | 2020/11/29       | 2021/11/28           |
| Unknown                       | RF Cable          | W1101-EQ1 OUT   | F-19-EM005      | 2020/11/29       | 2021/11/28           |
| MICRO-TRONICS                 | Passband filter   | HPM50111        | F-19-EM006      | 2020/04/20       | 2021/04/19           |
| Unknown                       | High Pass filter  | 1.3GHz          | 101120          | 2020/04/20       | 2021/04/19           |
| Ducommun Technologies         | Horn antenna      | ARH-4223-02     | 1007726-01 1304 | 2020/12/06       | 2023/12/05           |
| Ducommun Technologies         | Horn antenna      | ARH-4223-02     | 1007726-02 1304 | 2020/12/06       | 2023/12/05           |
| Agilent                       | Signal Generator  | N5183A          | MY51040755      | 2020/12/29       | 2021/12/28           |

| Manufacturer             | Description                          | Model      | Serial Number         | Calibration Date | Calibration Due Date |
|--------------------------|--------------------------------------|------------|-----------------------|------------------|----------------------|
| <b>RF Conducted Test</b> |                                      |            |                       |                  |                      |
| Rohde & Schwarz          | Signal and Spectrum Analyzer         | FSV40      | 101473                | 2020/08/04       | 2021/08/03           |
| Yijia                    | Temperature & Humidity Meter         | 10316377   | T-03-EM397            | 2020/09/30       | 2021/09/29           |
| Rohde & Schwarz          | Wideband Radio Communication Tester  | CMW500     | 1201.002K50-146520-wh | 2020/08/04       | 2021/08/03           |
| Unknown                  | RF Cable                             | Unknown    | 2301 276              | 2020/11/29       | 2021/11/28           |
| Unknown                  | RF Cable                             | Unknown    | DLO J5/W6102          | 2020/11/29       | 2021/11/28           |
| Weinschel                | Power divider                        | 1515       | MY628                 | 2020/11/29       | 2021/11/28           |
| Rohde & Schwarz          | Universal Radio Communication Tester | CMU200     | 115500                | 2020/07/31       | 2021/07/30           |
| instek                   | DC Power Supply                      | GPS-3030DD | EM832096              | NCR              | NCR                  |
| ESPEC                    | Temperature & Humidity Chamber       | EL-10KA    | 9107726               | 2021/01/05       | 2022/01/05           |
| Fluke                    | Digital Multimeter                   | 287        | 19000011              | 2020/07/23       | 2021/07/22           |

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

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## **FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION**

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### **Applicable Standard**

FCC§1.1310 and §2.1093.

### **Test Result**

Compliance, please refer to the SAR report: SZ1210201-03817E-SA.

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## **FCC §2.1047 - MODULATION CHARACTERISTIC**

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According to FCC § 2.1047(d), Part 22H & 24E & 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## **FCC § 2.1046, § 22.913 (a) & § 24.232 (c); §27.50 (c) (d) (h) - RF OUTPUT POWER**

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### **Applicable Standard**

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

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

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

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

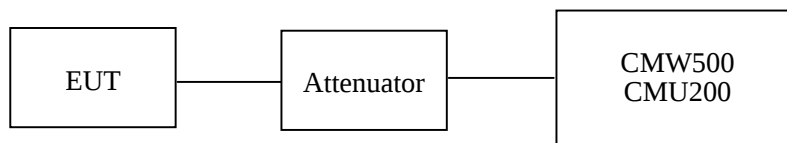
According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1780MHz.

According to §27.50(h), the maximum EIRP must not exceed 2Watts (33dBm) for 2500-2570MHz & 2496-2690MHz.

### **Test Procedure**

*Conducted method:*

The RF output of the transmitter was connected to the CMW500/CMU200 through sufficient attenuation.



**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 25 °C     |
| <b>Relative Humidity:</b> | 55 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Gavin Guo from 2021-02-05 to 2021-03-22.*

**Conducted Power****Cellular Band (Part 22H)**

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|------|---------|-----------------|----------------------------|-----------|-------------|
| GSM  | 128     | 824.2           | 32.05                      | 28.30     | 38.45       |
|      | 190     | 836.6           | 32.16                      | 28.41     | 38.45       |
|      | 251     | 848.8           | 32.18                      | 28.43     | 38.45       |

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | ERP(dBm) |         |         |         | Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|----------|---------|---------|---------|-------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot   | 2 slots | 3 slots | 4 slots |             |
| GPRS | 128     | 824.2           | 32.04                      | 30.94   | 28.89   | 27.70   | 28.29    | 27.19   | 25.14   | 23.95   | 38.45       |
|      | 190     | 836.6           | 32.01                      | 30.98   | 28.92   | 27.71   | 28.26    | 27.23   | 25.17   | 23.96   | 38.45       |
|      | 251     | 848.8           | 31.99                      | 30.92   | 28.83   | 27.68   | 28.24    | 27.17   | 25.08   | 23.93   | 38.45       |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | ERP(dBm) |         |         |         | Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|----------|---------|---------|---------|-------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot   | 2 slots | 3 slots | 4 slots |             |
| EGPRS | 128     | 824.2           | 26.30                      | 25.21   | 22.78   | 21.24   | 22.55    | 21.46   | 19.03   | 17.49   | 38.45       |
|       | 190     | 836.6           | 26.17                      | 25.02   | 22.68   | 21.13   | 22.42    | 21.27   | 18.93   | 17.38   | 38.45       |
|       | 251     | 848.8           | 26.12                      | 24.93   | 22.56   | 21.06   | 22.37    | 21.18   | 18.81   | 17.31   | 38.45       |

| Mode              | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | ERP(dBm) |       |       |
|-------------------|-----------|---------------|----------------------------|-------|-------|----------|-------|-------|
|                   |           |               | Low                        | Mid   | High  | Low      | Mid   | High  |
| WCDMA<br>(Band 5) | RMC12.2k  |               | 23.10                      | 23.24 | 23.23 | 19.35    | 19.49 | 19.48 |
|                   | HSDPA     | 1             | 22.66                      | 22.67 | 22.40 | 18.91    | 18.92 | 18.65 |
|                   |           | 2             | 22.52                      | 22.59 | 22.11 | 18.77    | 18.84 | 18.36 |
|                   |           | 3             | 22.43                      | 22.45 | 22.44 | 18.68    | 18.7  | 18.69 |
|                   |           | 4             | 22.38                      | 22.40 | 22.20 | 18.63    | 18.65 | 18.45 |
|                   | HSUPA     | 1             | 22.48                      | 22.52 | 22.13 | 18.73    | 18.77 | 18.38 |
|                   |           | 2             | 22.54                      | 22.56 | 22.29 | 18.79    | 18.81 | 18.54 |
|                   |           | 3             | 22.43                      | 22.46 | 22.25 | 18.68    | 18.71 | 18.50 |
|                   |           | 4             | 22.39                      | 22.36 | 22.16 | 18.64    | 18.61 | 18.41 |
|                   |           | 5             | 22.34                      | 22.28 | 22.19 | 18.59    | 18.53 | 18.44 |
|                   | HSPA+     | 1             | 23.03                      | 23.14 | 22.91 | 19.28    | 19.39 | 19.16 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)  
 For GSM850/WCDMA Band5: Antenna Gain = -1.6dBi = -3.75dBd (0dBd=2.15dBi)  
 Limit: ERP ≤ 38.45dBm

**PCS Band (Part 24E)**

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) | EIRP(dBm) | Limit (dBm) |
|------|---------|-----------------|----------------------------|-----------|-------------|
| GSM  | 512     | 1850.2          | 26.02                      | 25.52     | 33          |
|      | 661     | 1880.0          | 26.01                      | 25.51     | 33          |
|      | 810     | 1909.8          | 26.10                      | 25.60     | 33          |

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | EIRP(dBm) |         |         |         | Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|-----------|---------|---------|---------|-------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot    | 2 slots | 3 slots | 4 slots |             |
| GPRS | 512     | 1850.2          | 26.21                      | 25.06   | 23.12   | 22.02   | 25.71     | 24.56   | 22.62   | 21.52   | 33          |
|      | 661     | 1880.0          | 26.00                      | 24.92   | 22.96   | 21.88   | 25.50     | 24.42   | 22.46   | 21.38   | 33          |
|      | 810     | 1909.8          | 26.32                      | 25.24   | 23.29   | 22.19   | 25.82     | 24.74   | 22.79   | 21.69   | 33          |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | EIRP(dBm) |         |         |         | Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|-----------|---------|---------|---------|-------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot    | 2 slots | 3 slots | 4 slots |             |
| EGPRS | 512     | 1850.2          | 25.52                      | 24.33   | 22.32   | 21.20   | 25.02     | 23.83   | 21.82   | 20.70   | 33          |
|       | 661     | 1880.0          | 25.92                      | 24.99   | 22.57   | 21.32   | 25.42     | 24.49   | 22.07   | 20.82   | 33          |
|       | 810     | 1909.8          | 25.83                      | 24.84   | 22.43   | 21.39   | 25.33     | 24.34   | 21.93   | 20.89   | 33          |

| Mode              | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | EIRP(dBm) |       |       |
|-------------------|-----------|---------------|----------------------------|-------|-------|-----------|-------|-------|
|                   |           |               | Low                        | Mid   | High  | Low       | Mid   | High  |
| WCDMA<br>(Band 2) | RMC12.2k  |               | 15.86                      | 15.81 | 15.83 | 15.36     | 15.31 | 15.33 |
|                   | HSDPA     | 1             | 14.68                      | 14.63 | 14.73 | 14.18     | 14.13 | 14.23 |
|                   |           | 2             | 14.62                      | 14.58 | 14.70 | 14.12     | 14.08 | 14.20 |
|                   |           | 3             | 14.59                      | 14.57 | 14.64 | 14.09     | 14.07 | 14.14 |
|                   |           | 4             | 14.58                      | 14.49 | 14.55 | 14.08     | 13.99 | 14.05 |
|                   | HSUPA     | 1             | 15.22                      | 15.26 | 15.21 | 14.72     | 14.76 | 14.71 |
|                   |           | 2             | 15.15                      | 15.19 | 15.11 | 14.65     | 14.69 | 14.61 |
|                   |           | 3             | 15.09                      | 15.17 | 15.06 | 14.59     | 14.67 | 14.56 |
|                   |           | 4             | 15.01                      | 15.14 | 15.04 | 14.51     | 14.64 | 14.54 |
|                   |           | 5             | 15.22                      | 15.26 | 15.21 | 14.72     | 14.76 | 14.71 |
|                   | HSPA+     | 1             | 15.72                      | 15.71 | 15.81 | 15.22     | 15.21 | 15.31 |

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

For PCS1900/WCDMA Band2: Antenna Gain = -0.5dBi

Limit: EIRP ≤ 33dBm

**AWS Band (Part 27)**

| Mode              | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | EIRP(dBm) |       |       |
|-------------------|-----------|---------------|----------------------------|-------|-------|-----------|-------|-------|
|                   |           |               | Low                        | Mid   | High  | Low       | Mid   | High  |
| WCDMA<br>(Band 4) | RMC12.2k  |               | 17.62                      | 17.54 | 17.66 | 16.92     | 16.84 | 16.96 |
|                   | HSDPA     | 1             | 16.53                      | 16.54 | 16.60 | 15.83     | 15.84 | 15.90 |
|                   |           | 2             | 16.50                      | 16.49 | 16.56 | 15.80     | 15.79 | 15.86 |
|                   |           | 3             | 16.45                      | 16.44 | 16.55 | 15.75     | 15.74 | 15.85 |
|                   |           | 4             | 16.35                      | 16.44 | 16.52 | 15.65     | 15.74 | 15.82 |
|                   | HSUPA     | 1             | 17.21                      | 17.18 | 17.24 | 16.51     | 16.48 | 16.54 |
|                   |           | 2             | 17.15                      | 17.13 | 17.19 | 16.45     | 16.43 | 16.49 |
|                   |           | 3             | 17.10                      | 17.03 | 17.15 | 16.40     | 16.33 | 16.45 |
|                   |           | 4             | 17.09                      | 16.94 | 17.10 | 16.39     | 16.24 | 16.40 |
|                   |           | 5             | 17.04                      | 16.86 | 17.05 | 16.34     | 16.16 | 16.35 |
|                   | HSPA+     | 1             | 17.56                      | 17.62 | 17.71 | 16.86     | 16.92 | 17.01 |

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

For Band 4: Antenna Gain = -0.7dBi

Limit: EIRP ≤ 30dBm

**Peak-to-average ratio (PAR)****Cellular Band**

| Mode | Channel | PAR (dB) | Limit (dB) |
|------|---------|----------|------------|
| GSM  | Low     | 3.22     | 13         |
|      | Middle  | 3.26     | 13         |
|      | High    | 3.35     | 13         |

| Mode  | Channel | PAR (dB) | Limit (dB) |
|-------|---------|----------|------------|
| EGPRS | Low     | 3.16     | 13         |
|       | Middle  | 3.67     | 13         |
|       | High    | 3.23     | 13         |

| Mode             | Channel | PAR (dB) | Limit (dB) |
|------------------|---------|----------|------------|
| RMC<br>(BPSK)    | Low     | 3.55     | 13         |
|                  | Middle  | 3.17     | 13         |
|                  | High    | 3.47     | 13         |
| HSDPA<br>(16QAM) | Low     | 3.07     | 13         |
|                  | Middle  | 3.28     | 13         |
|                  | High    | 3.61     | 13         |
| HSUPA<br>(BPSK)  | Low     | 3.23     | 13         |
|                  | Middle  | 3.39     | 13         |
|                  | High    | 3.37     | 13         |
| HSPA+            | Low     | 3.18     | 13         |
|                  | Middle  | 3.43     | 13         |
|                  | High    | 3.52     | 13         |

**PCS Band**

| Mode | Channel | PAR (dB) | Limit (dB) |
|------|---------|----------|------------|
| GSM  | Low     | 3.41     | 13         |
|      | Middle  | 3.09     | 13         |
|      | High    | 3.69     | 13         |

| Mode  | Channel | PAR (dB) | Limit (dB) |
|-------|---------|----------|------------|
| EGPRS | Low     | 3.24     | 13         |
|       | Middle  | 3.11     | 13         |
|       | High    | 3.46     | 13         |

| Mode          | Channel | PAR (dB) | Limit (dB) |
|---------------|---------|----------|------------|
| RMC (BPSK)    | Low     | 3.61     | 13         |
|               | Middle  | 3.56     | 13         |
|               | High    | 3.78     | 13         |
| HSDPA (16QAM) | Low     | 3.14     | 13         |
|               | Middle  | 3.10     | 13         |
|               | High    | 3.39     | 13         |
| HSUPA (BPSK)  | Low     | 3.29     | 13         |
|               | Middle  | 3.45     | 13         |
|               | High    | 3.06     | 13         |
| HSPA+         | Low     | 3.26     | 13         |
|               | Middle  | 3.15     | 13         |
|               | High    | 3.24     | 13         |

**AWS Band**

| Mode          | Channel | PAR (dB) | Limit (dB) |
|---------------|---------|----------|------------|
| RMC (BPSK)    | Low     | 3.38     | 13         |
|               | Middle  | 3.11     | 13         |
|               | High    | 3.24     | 13         |
| HSDPA (16QAM) | Low     | 3.20     | 13         |
|               | Middle  | 3.55     | 13         |
|               | High    | 3.66     | 13         |
| HSUPA (BPSK)  | Low     | 3.61     | 13         |
|               | Middle  | 3.71     | 13         |
|               | High    | 3.65     | 13         |
| HSPA+         | Low     | 3.58     | 13         |
|               | Middle  | 3.44     | 13         |
|               | High    | 3.37     | 13         |

**LTE Band 2:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 1.4                | QPSK       | RB1#0                 | 17.09                                   | 17.2  | 17.12 | 16.59     | 16.7  | 16.62 |
|                    |            | RB1#2                 | 17.39                                   | 17.41 | 17.50 | 16.89     | 16.91 | 17    |
|                    |            | RB1#5                 | 17.24                                   | 17.22 | 17.32 | 16.74     | 16.72 | 16.82 |
|                    |            | RB3#0                 | 17.43                                   | 17.38 | 17.34 | 16.93     | 16.88 | 16.84 |
|                    |            | RB3#1                 | 17.13                                   | 17.31 | 17.40 | 16.63     | 16.81 | 16.9  |
|                    |            | RB3#2                 | 16.28                                   | 16.24 | 16.23 | 15.78     | 15.74 | 15.73 |
|                    |            | RB6#0                 | 17.33                                   | 17.26 | 17.15 | 16.83     | 16.76 | 16.65 |
|                    | 16QAM      | RB1#0                 | 17.43                                   | 17.43 | 17.61 | 16.93     | 16.93 | 17.11 |
|                    |            | RB1#2                 | 16.90                                   | 17.12 | 16.94 | 16.4      | 16.62 | 16.44 |
|                    |            | RB1#5                 | 17.54                                   | 17.56 | 17.38 | 17.04     | 17.06 | 16.88 |
|                    |            | RB3#0                 | 17.32                                   | 17.18 | 17.18 | 16.82     | 16.68 | 16.68 |
|                    |            | RB3#1                 | 16.05                                   | 16.16 | 16.26 | 15.55     | 15.66 | 15.76 |
|                    |            | RB3#2                 | 17.13                                   | 17.22 | 17.15 | 16.63     | 16.72 | 16.65 |
|                    |            | RB6#0                 | 17.31                                   | 17.37 | 17.23 | 16.81     | 16.87 | 16.73 |
| 3.0                | QPSK       | RB1#0                 | 17.31                                   | 17.17 | 17.28 | 16.81     | 16.67 | 16.78 |
|                    |            | RB1#7                 | 17.28                                   | 17.39 | 17.38 | 16.78     | 16.89 | 16.88 |
|                    |            | RB1#14                | 17.20                                   | 16.98 | 17.21 | 16.7      | 16.48 | 16.71 |
|                    |            | RB8#0                 | 17.26                                   | 17.10 | 17.40 | 16.76     | 16.6  | 16.9  |
|                    |            | RB8#4                 | 17.28                                   | 17.30 | 17.00 | 16.78     | 16.8  | 16.5  |
|                    |            | RB8#7                 | 15.94                                   | 15.94 | 15.91 | 15.44     | 15.44 | 15.41 |
|                    |            | RB15#0                | 16.97                                   | 17.16 | 17.10 | 16.47     | 16.66 | 16.6  |
|                    | 16QAM      | RB1#0                 | 17.55                                   | 17.31 | 17.34 | 17.05     | 16.81 | 16.84 |
|                    |            | RB1#7                 | 17.00                                   | 17.23 | 16.97 | 16.5      | 16.73 | 16.47 |
|                    |            | RB1#14                | 17.35                                   | 17.28 | 17.45 | 16.85     | 16.78 | 16.95 |
|                    |            | RB8#0                 | 17.08                                   | 16.99 | 17.16 | 16.58     | 16.49 | 16.66 |
|                    |            | RB8#4                 | 16.23                                   | 16.15 | 16.42 | 15.73     | 15.65 | 15.92 |
|                    |            | RB8#7                 | 17.25                                   | 17.13 | 17.22 | 16.75     | 16.63 | 16.72 |
|                    |            | RB15#0                | 17.24                                   | 17.34 | 17.32 | 16.74     | 16.84 | 16.82 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 16.99                                   | 17.17 | 16.98 | 16.49     | 16.67 | 16.48 |
|                    |            | RB1#12                | 17.31                                   | 17.35 | 17.23 | 16.81     | 16.85 | 16.73 |
|                    |            | RB1#24                | 17.09                                   | 17.07 | 17.04 | 16.59     | 16.57 | 16.54 |
|                    |            | RB12#0                | 17.42                                   | 17.20 | 17.07 | 16.92     | 16.7  | 16.57 |
|                    |            | RB12#6                | 17.10                                   | 17.27 | 17.46 | 16.6      | 16.77 | 16.96 |
|                    |            | RB12#11               | 15.99                                   | 16.13 | 16.20 | 15.49     | 15.63 | 15.7  |
|                    |            | RB25#0                | 16.84                                   | 16.74 | 16.85 | 16.34     | 16.24 | 16.35 |
|                    | 16QAM      | RB1#0                 | 17.37                                   | 17.48 | 17.65 | 16.87     | 16.98 | 17.15 |
|                    |            | RB1#12                | 17.13                                   | 17.04 | 16.86 | 16.63     | 16.54 | 16.36 |
|                    |            | RB1#24                | 17.40                                   | 17.10 | 17.35 | 16.9      | 16.6  | 16.85 |
|                    |            | RB12#0                | 17.25                                   | 17.51 | 17.59 | 16.75     | 17.01 | 17.09 |
|                    |            | RB12#6                | 15.99                                   | 15.76 | 16.05 | 15.49     | 15.26 | 15.55 |
|                    |            | RB12#11               | 16.93                                   | 17.12 | 16.93 | 16.43     | 16.62 | 16.43 |
|                    |            | RB25#0                | 17.24                                   | 17.23 | 17.20 | 16.74     | 16.73 | 16.7  |
| 10.0               | QPSK       | RB1#0                 | 17.26                                   | 17.38 | 17.31 | 16.76     | 16.88 | 16.81 |
|                    |            | RB1#24                | 17.31                                   | 17.53 | 17.43 | 16.81     | 17.03 | 16.93 |
|                    |            | RB1#49                | 17.29                                   | 17.23 | 17.26 | 16.79     | 16.73 | 16.76 |
|                    |            | RB25#0                | 17.60                                   | 17.46 | 17.66 | 17.1      | 16.96 | 17.16 |
|                    |            | RB25#12               | 17.45                                   | 17.33 | 17.42 | 16.95     | 16.83 | 16.92 |
|                    |            | RB25#24               | 16.53                                   | 16.26 | 16.30 | 16.03     | 15.76 | 15.8  |
|                    |            | RB50#0                | 17.47                                   | 17.63 | 17.55 | 16.97     | 17.13 | 17.05 |
|                    | 16QAM      | RB1#0                 | 17.73                                   | 17.66 | 17.78 | 17.23     | 17.16 | 17.28 |
|                    |            | RB1#24                | 17.48                                   | 17.31 | 17.11 | 16.98     | 16.81 | 16.61 |
|                    |            | RB1#49                | 17.43                                   | 17.24 | 17.53 | 16.93     | 16.74 | 17.03 |
|                    |            | RB25#0                | 17.32                                   | 17.16 | 17.30 | 16.82     | 16.66 | 16.8  |
|                    |            | RB25#12               | 16.29                                   | 16.30 | 16.38 | 15.79     | 15.8  | 15.88 |
|                    |            | RB25#24               | 17.20                                   | 17.32 | 17.36 | 16.7      | 16.82 | 16.86 |
|                    |            | RB50#0                | 17.35                                   | 17.56 | 17.41 | 16.85     | 17.06 | 16.91 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15.0               | QPSK       | RB1#0                 | 17.05                                   | 17.20 | 17.04 | 16.55     | 16.7  | 16.54 |
|                    |            | RB1#37                | 17.29                                   | 17.25 | 17.34 | 16.79     | 16.75 | 16.84 |
|                    |            | RB1#74                | 17.23                                   | 17.03 | 17.00 | 16.73     | 16.53 | 16.5  |
|                    |            | RB36#0                | 17.47                                   | 17.36 | 17.41 | 16.97     | 16.86 | 16.91 |
|                    |            | RB36#18               | 17.20                                   | 17.31 | 17.24 | 16.7      | 16.81 | 16.74 |
|                    |            | RB36#37               | 16.49                                   | 16.17 | 16.17 | 15.99     | 15.67 | 15.67 |
|                    |            | RB75#0                | 17.40                                   | 17.46 | 17.32 | 16.9      | 16.96 | 16.82 |
|                    | 16QAM      | RB1#0                 | 17.63                                   | 17.57 | 17.71 | 17.13     | 17.07 | 17.21 |
|                    |            | RB1#37                | 17.38                                   | 17.28 | 16.92 | 16.88     | 16.78 | 16.42 |
|                    |            | RB1#74                | 17.26                                   | 17.21 | 17.35 | 16.76     | 16.71 | 16.85 |
|                    |            | RB36#0                | 17.04                                   | 17.00 | 17.20 | 16.54     | 16.5  | 16.7  |
|                    |            | RB36#18               | 16.12                                   | 16.13 | 16.24 | 15.62     | 15.63 | 15.74 |
|                    |            | RB36#37               | 17.13                                   | 17.23 | 17.16 | 16.63     | 16.73 | 16.66 |
|                    |            | RB75#0                | 17.20                                   | 17.27 | 17.22 | 16.7      | 16.77 | 16.72 |
| 20.0               | QPSK       | RB1#0                 | 16.89                                   | 17.19 | 16.92 | 16.39     | 16.69 | 16.42 |
|                    |            | RB1#49                | 17.23                                   | 17.06 | 17.31 | 16.73     | 16.56 | 16.81 |
|                    |            | RB1#99                | 17.13                                   | 16.87 | 16.81 | 16.63     | 16.37 | 16.31 |
|                    |            | RB50#0                | 17.45                                   | 17.23 | 17.36 | 16.95     | 16.73 | 16.86 |
|                    |            | RB50#24               | 17.20                                   | 17.22 | 17.20 | 16.7      | 16.72 | 16.7  |
|                    |            | RB50#49               | 16.45                                   | 16.06 | 16.06 | 15.95     | 15.56 | 15.56 |
|                    |            | RB100#0               | 17.27                                   | 17.42 | 17.22 | 16.77     | 16.92 | 16.72 |
|                    | 16QAM      | RB1#0                 | 17.49                                   | 17.50 | 17.62 | 16.99     | 17    | 17.12 |
|                    |            | RB1#49                | 17.38                                   | 17.15 | 16.89 | 16.88     | 16.65 | 16.39 |
|                    |            | RB1#99                | 17.26                                   | 17.10 | 17.29 | 16.76     | 16.6  | 16.79 |
|                    |            | RB50#0                | 17.02                                   | 16.98 | 17.12 | 16.52     | 16.48 | 16.62 |
|                    |            | RB50#24               | 15.93                                   | 16.11 | 16.23 | 15.43     | 15.61 | 15.73 |
|                    |            | RB50#49               | 16.80                                   | 17.23 | 16.78 | 16.3      | 16.73 | 16.28 |
|                    |            | RB100#0               | 17.20                                   | 17.12 | 17.22 | 16.7      | 16.62 | 16.72 |

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

For Band2: Antenna Gain = -0.5dBi

Limit: EIRP ≤ 33dBm

**Peak-to-average ratio (PAR)****20MHz Bandwidth**

| Modulation         | Low channel (dB) | Middle channel (dB) | High channel (dB) | PAR Limit (dB) | Result |
|--------------------|------------------|---------------------|-------------------|----------------|--------|
| QPSK (1RB Size)    | 3.24             | 4.17                | 3.14              | 13             | Pass   |
| QPSK (100RB Size)  | 5.15             | 5.27                | 5.24              | 13             | Pass   |
| 16QAM (1RB Size)   | 4.13             | 4.37                | 4.19              | 13             | Pass   |
| 16QAM (100RB Size) | 6.28             | 6.36                | 5.99              | 13             | Pass   |

**LTE Band 4**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 1.4                | QPSK       | RB1#0                 | 18.20                                   | 18.07 | 17.84 | 17.5      | 17.37 | 17.14 |
|                    |            | RB1#2                 | 18.23                                   | 18.12 | 18.18 | 17.53     | 17.42 | 17.48 |
|                    |            | RB1#5                 | 18.17                                   | 18.05 | 17.97 | 17.47     | 17.35 | 17.27 |
|                    |            | RB3#0                 | 18.24                                   | 18.22 | 18.18 | 17.54     | 17.52 | 17.48 |
|                    |            | RB3#1                 | 18.35                                   | 18.27 | 18.07 | 17.65     | 17.57 | 17.37 |
|                    |            | RB3#2                 | 18.24                                   | 18.14 | 18.17 | 17.54     | 17.44 | 17.47 |
|                    |            | RB6#0                 | 17.28                                   | 17.15 | 17.24 | 16.58     | 16.45 | 16.54 |
|                    | 16QAM      | RB1#0                 | 18.20                                   | 18.10 | 18.10 | 17.5      | 17.4  | 17.4  |
|                    |            | RB1#2                 | 18.22                                   | 18.16 | 18.24 | 17.52     | 17.46 | 17.54 |
|                    |            | RB1#5                 | 18.10                                   | 18.17 | 18.17 | 17.4      | 17.47 | 17.47 |
|                    |            | RB3#0                 | 17.90                                   | 17.84 | 17.96 | 17.2      | 17.14 | 17.26 |
|                    |            | RB3#1                 | 17.74                                   | 17.63 | 17.57 | 17.04     | 16.93 | 16.87 |
|                    |            | RB3#2                 | 18.13                                   | 18.01 | 17.54 | 17.43     | 17.31 | 16.84 |
|                    |            | RB6#0                 | 18.10                                   | 18.05 | 18.10 | 17.4      | 17.35 | 17.4  |
| 3.0                | QPSK       | RB1#0                 | 18.15                                   | 18.08 | 18.15 | 17.45     | 17.38 | 17.45 |
|                    |            | RB1#7                 | 18.23                                   | 18.06 | 18.28 | 17.53     | 17.36 | 17.58 |
|                    |            | RB1#14                | 18.18                                   | 18.07 | 18.28 | 17.48     | 17.37 | 17.58 |
|                    |            | RB8#0                 | 18.04                                   | 18.00 | 17.98 | 17.34     | 17.3  | 17.28 |
|                    |            | RB8#4                 | 18.12                                   | 18.39 | 18.24 | 17.42     | 17.69 | 17.54 |
|                    |            | RB8#7                 | 17.91                                   | 17.98 | 18.31 | 17.21     | 17.28 | 17.61 |
|                    |            | RB15#0                | 16.98                                   | 17.18 | 17.02 | 16.28     | 16.48 | 16.32 |
|                    | 16QAM      | RB1#0                 | 18.20                                   | 18.07 | 18.08 | 17.5      | 17.37 | 17.38 |
|                    |            | RB1#7                 | 18.17                                   | 18.05 | 18.07 | 17.47     | 17.35 | 17.37 |
|                    |            | RB1#14                | 18.41                                   | 18.26 | 18.18 | 17.71     | 17.56 | 17.48 |
|                    |            | RB8#0                 | 17.76                                   | 17.64 | 17.61 | 17.06     | 16.94 | 16.91 |
|                    |            | RB8#4                 | 17.57                                   | 17.50 | 17.59 | 16.87     | 16.8  | 16.89 |
|                    |            | RB8#7                 | 18.03                                   | 18.02 | 18.11 | 17.33     | 17.32 | 17.41 |
|                    |            | RB15#0                | 18.10                                   | 18.02 | 18.20 | 17.4      | 17.32 | 17.5  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 18.45                                   | 18.19 | 18.12 | 17.75     | 17.49 | 17.42 |
|                    |            | RB1#12                | 18.35                                   | 18.07 | 18.08 | 17.65     | 17.37 | 17.38 |
|                    |            | RB1#24                | 18.06                                   | 17.85 | 17.99 | 17.36     | 17.15 | 17.29 |
|                    |            | RB12#0                | 18.27                                   | 18.5  | 18.56 | 17.57     | 17.8  | 17.86 |
|                    |            | RB12#6                | 18.42                                   | 18.59 | 18.23 | 17.72     | 17.89 | 17.53 |
|                    |            | RB12#11               | 18.31                                   | 18.26 | 18.15 | 17.61     | 17.56 | 17.45 |
|                    |            | RB25#0                | 17.15                                   | 17.02 | 16.97 | 16.45     | 16.32 | 16.27 |
|                    | 16QAM      | RB1#0                 | 17.32                                   | 16.95 | 16.91 | 16.62     | 16.25 | 16.21 |
|                    |            | RB1#12                | 17.1                                    | 16.86 | 17.14 | 16.4      | 16.16 | 16.44 |
|                    |            | RB1#24                | 16.82                                   | 16.95 | 16.73 | 16.12     | 16.25 | 16.03 |
|                    |            | RB12#0                | 16.72                                   | 17.09 | 17.25 | 16.02     | 16.39 | 16.55 |
|                    |            | RB12#6                | 16.75                                   | 16.88 | 16.94 | 16.05     | 16.18 | 16.24 |
|                    |            | RB12#11               | 16.66                                   | 17.09 | 17.12 | 15.96     | 16.39 | 16.42 |
|                    |            | RB25#0                | 16.31                                   | 15.9  | 16.48 | 15.61     | 15.2  | 15.78 |
| 10.0               | QPSK       | RB1#0                 | 18.11                                   | 18.24 | 18.32 | 17.41     | 17.54 | 17.62 |
|                    |            | RB1#24                | 18.33                                   | 18.17 | 18.08 | 17.63     | 17.47 | 17.38 |
|                    |            | RB1#49                | 18.18                                   | 17.81 | 17.97 | 17.48     | 17.11 | 17.27 |
|                    |            | RB25#0                | 18.26                                   | 18.32 | 18.18 | 17.56     | 17.62 | 17.48 |
|                    |            | RB25#12               | 18.33                                   | 18.48 | 18.24 | 17.63     | 17.78 | 17.54 |
|                    |            | RB25#24               | 18.38                                   | 18.11 | 18.16 | 17.68     | 17.41 | 17.46 |
|                    |            | RB50#0                | 17.16                                   | 17.12 | 16.85 | 16.46     | 16.42 | 16.15 |
|                    | 16QAM      | RB1#0                 | 17.14                                   | 16.79 | 17.13 | 16.44     | 16.09 | 16.43 |
|                    |            | RB1#24                | 17.28                                   | 16.91 | 17.03 | 16.58     | 16.21 | 16.33 |
|                    |            | RB1#49                | 16.7                                    | 16.9  | 16.95 | 16        | 16.2  | 16.25 |
|                    |            | RB25#0                | 16.78                                   | 17.2  | 17.21 | 16.08     | 16.5  | 16.51 |
|                    |            | RB25#12               | 16.82                                   | 16.84 | 17.08 | 16.12     | 16.14 | 16.38 |
|                    |            | RB25#24               | 16.6                                    | 17.27 | 17.12 | 15.9      | 16.57 | 16.42 |
|                    |            | RB50#0                | 16.48                                   | 16.06 | 16.3  | 15.78     | 15.36 | 15.6  |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15.0               | QPSK       | RB1#0                 | 18.36                                   | 18.54 | 18.31 | 17.66     | 17.84 | 17.61 |
|                    |            | RB1#37                | 18.21                                   | 17.97 | 17.86 | 17.51     | 17.27 | 17.16 |
|                    |            | RB1#74                | 18.2                                    | 17.9  | 17.81 | 17.5      | 17.2  | 17.11 |
|                    |            | RB36#0                | 18.48                                   | 18.42 | 18.48 | 17.78     | 17.72 | 17.78 |
|                    |            | RB36#18               | 18.2                                    | 18.29 | 18.45 | 17.5      | 17.59 | 17.75 |
|                    |            | RB36#37               | 18.22                                   | 18.15 | 18.24 | 17.52     | 17.45 | 17.54 |
|                    |            | RB75#0                | 17.19                                   | 17.16 | 17.07 | 16.49     | 16.46 | 16.37 |
|                    | 16QAM      | RB1#0                 | 17.09                                   | 16.74 | 16.98 | 16.39     | 16.04 | 16.28 |
|                    |            | RB1#37                | 17.36                                   | 16.9  | 17.09 | 16.66     | 16.2  | 16.39 |
|                    |            | RB1#74                | 16.91                                   | 16.85 | 16.8  | 16.21     | 16.15 | 16.1  |
|                    |            | RB36#0                | 16.94                                   | 17.17 | 17.25 | 16.24     | 16.47 | 16.55 |
|                    |            | RB36#18               | 16.98                                   | 16.68 | 16.83 | 16.28     | 15.98 | 16.13 |
|                    |            | RB36#37               | 16.76                                   | 16.86 | 17.07 | 16.06     | 16.16 | 16.37 |
|                    |            | RB75#0                | 16.45                                   | 16.13 | 16.13 | 15.75     | 15.43 | 15.43 |
| 20.0               | QPSK       | RB1#0                 | 18.46                                   | 18.1  | 18.35 | 17.76     | 17.4  | 17.65 |
|                    |            | RB1#49                | 18.38                                   | 18.14 | 18    | 17.68     | 17.44 | 17.3  |
|                    |            | RB1#99                | 18.21                                   | 17.79 | 18.01 | 17.51     | 17.09 | 17.31 |
|                    |            | RB50#0                | 18.44                                   | 18.5  | 18.4  | 17.74     | 17.8  | 17.7  |
|                    |            | RB50#24               | 18.25                                   | 18.42 | 18.51 | 17.55     | 17.72 | 17.81 |
|                    |            | RB50#49               | 18.44                                   | 18.22 | 18.23 | 17.74     | 17.52 | 17.53 |
|                    |            | RB100#0               | 17.09                                   | 17.05 | 17.17 | 16.39     | 16.35 | 16.47 |
|                    | 16QAM      | RB1#0                 | 17.21                                   | 16.8  | 16.72 | 16.51     | 16.1  | 16.02 |
|                    |            | RB1#49                | 17.33                                   | 17.03 | 17.18 | 16.63     | 16.33 | 16.48 |
|                    |            | RB1#99                | 16.96                                   | 16.82 | 16.83 | 16.26     | 16.12 | 16.13 |
|                    |            | RB50#0                | 16.65                                   | 17.02 | 17.13 | 15.95     | 16.32 | 16.43 |
|                    |            | RB50#24               | 16.79                                   | 16.61 | 16.8  | 16.09     | 15.91 | 16.1  |
|                    |            | RB50#49               | 16.71                                   | 17.14 | 17.13 | 16.01     | 16.44 | 16.43 |
|                    |            | RB100#0               | 16.48                                   | 15.97 | 16.33 | 15.78     | 15.27 | 15.63 |

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

For Band4: Antenna Gain = -0.7dBi

Limit: EIRP ≤ 30dBm

**Peak-to-average ratio (PAR)****20MHz Bandwidth**

| <b>Modulation</b>     | <b>Low channel<br/>(dB)</b> | <b>Middle channel<br/>(dB)</b> | <b>High channel<br/>(dB)</b> | <b>PAR Limit<br/>(dB)</b> | <b>Result</b> |
|-----------------------|-----------------------------|--------------------------------|------------------------------|---------------------------|---------------|
| QPSK<br>(1RB Size)    | 4.41                        | 4.28                           | 4.36                         | 13                        | Pass          |
| QPSK<br>(100RB Size)  | 5.59                        | 5.51                           | 5.86                         | 13                        | Pass          |
| 16QAM<br>(1RB Size)   | 5.23                        | 5.17                           | 4.94                         | 13                        | Pass          |
| 16QAM<br>(100RB Size) | 6.21                        | 6.12                           | 6.24                         | 13                        | Pass          |

**LTE Band 5:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | ERP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low      | Mid   | High  |
| 1.4                | QPSK       | RB1#0                 | 22.55                                   | 21.96 | 22.05 | 18.8     | 18.21 | 18.3  |
|                    |            | RB1#2                 | 22.01                                   | 21.74 | 22.07 | 18.26    | 17.99 | 18.32 |
|                    |            | RB1#5                 | 21.98                                   | 21.83 | 21.62 | 18.23    | 18.08 | 17.87 |
|                    |            | RB3#0                 | 21.68                                   | 21.91 | 21.93 | 17.93    | 18.16 | 18.18 |
|                    |            | RB3#1                 | 22.06                                   | 22.45 | 22.65 | 18.31    | 18.7  | 18.9  |
|                    |            | RB3#2                 | 22.26                                   | 22.69 | 21.68 | 18.51    | 18.94 | 17.93 |
|                    |            | RB6#0                 | 21.26                                   | 20.86 | 20.69 | 17.51    | 17.11 | 16.94 |
|                    | 16QAM      | RB1#0                 | 21.24                                   | 21.20 | 20.34 | 17.49    | 17.45 | 16.59 |
|                    |            | RB1#2                 | 21.18                                   | 20.82 | 20.81 | 17.43    | 17.07 | 17.06 |
|                    |            | RB1#5                 | 21.08                                   | 20.46 | 20.72 | 17.33    | 16.71 | 16.97 |
|                    |            | RB3#0                 | 20.76                                   | 21.15 | 21.25 | 17.01    | 17.4  | 17.5  |
|                    |            | RB3#1                 | 21.24                                   | 20.83 | 20.76 | 17.49    | 17.08 | 17.01 |
|                    |            | RB3#2                 | 20.16                                   | 21.09 | 20.86 | 16.41    | 17.34 | 17.11 |
|                    |            | RB6#0                 | 20.15                                   | 20.34 | 20.63 | 16.4     | 16.59 | 16.88 |
| 3.0                | QPSK       | RB1#0                 | 22.34                                   | 22.38 | 21.86 | 18.59    | 18.63 | 18.11 |
|                    |            | RB1#7                 | 21.69                                   | 22.11 | 21.96 | 17.94    | 18.36 | 18.21 |
|                    |            | RB1#14                | 21.64                                   | 21.75 | 22.28 | 17.89    | 18    | 18.53 |
|                    |            | RB8#0                 | 22.43                                   | 22.55 | 22.08 | 18.68    | 18.8  | 18.33 |
|                    |            | RB8#4                 | 22.45                                   | 22.30 | 21.95 | 18.7     | 18.55 | 18.2  |
|                    |            | RB8#7                 | 22.07                                   | 22.71 | 22.36 | 18.32    | 18.96 | 18.61 |
|                    |            | RB15#0                | 21.26                                   | 20.35 | 20.49 | 17.51    | 16.6  | 16.74 |
|                    | 16QAM      | RB1#0                 | 20.81                                   | 21.03 | 20.92 | 17.06    | 17.28 | 17.17 |
|                    |            | RB1#7                 | 21.33                                   | 20.80 | 21.09 | 17.58    | 17.05 | 17.34 |
|                    |            | RB1#14                | 20.50                                   | 20.32 | 20.76 | 16.75    | 16.57 | 17.01 |
|                    |            | RB8#0                 | 20.59                                   | 21.10 | 21.28 | 16.84    | 17.35 | 17.53 |
|                    |            | RB8#4                 | 20.84                                   | 20.82 | 20.74 | 17.09    | 17.07 | 16.99 |
|                    |            | RB8#7                 | 19.95                                   | 21.05 | 20.71 | 16.2     | 17.3  | 16.96 |
|                    |            | RB15#0                | 22.11                                   | 22.18 | 22.22 | 18.36    | 18.43 | 18.47 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | ERP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low      | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 21.90                                   | 22.46 | 22.31 | 18.15    | 18.71 | 18.56 |
|                    |            | RB1#12                | 22.30                                   | 21.49 | 22.17 | 18.55    | 17.74 | 18.42 |
|                    |            | RB1#24                | 21.82                                   | 21.75 | 21.84 | 18.07    | 18.00 | 18.09 |
|                    |            | RB12#0                | 22.36                                   | 22.16 | 22.00 | 18.61    | 18.41 | 18.25 |
|                    |            | RB12#6                | 22.04                                   | 21.84 | 22.11 | 18.29    | 18.09 | 18.36 |
|                    |            | RB12#11               | 22.56                                   | 22.68 | 22.24 | 18.81    | 18.93 | 18.49 |
|                    |            | RB25#0                | 20.73                                   | 20.68 | 20.54 | 16.98    | 16.93 | 16.79 |
|                    | 16QAM      | RB1#0                 | 21.42                                   | 20.42 | 20.46 | 17.67    | 16.67 | 16.71 |
|                    |            | RB1#12                | 21.37                                   | 21.09 | 20.76 | 17.62    | 17.34 | 17.01 |
|                    |            | RB1#24                | 20.75                                   | 20.41 | 20.94 | 17.00    | 16.66 | 17.19 |
|                    |            | RB12#0                | 21.18                                   | 20.58 | 21.12 | 17.43    | 16.83 | 17.37 |
|                    |            | RB12#6                | 20.83                                   | 20.75 | 21.28 | 17.08    | 17.00 | 17.53 |
|                    |            | RB12#11               | 20.78                                   | 21.25 | 20.87 | 17.03    | 17.50 | 17.12 |
|                    |            | RB25#0                | 20.10                                   | 20.05 | 20.46 | 16.35    | 16.30 | 16.71 |
| 10.0               | QPSK       | RB1#0                 | 22.35                                   | 22.08 | 21.91 | 18.60    | 18.33 | 18.16 |
|                    |            | RB1#24                | 21.96                                   | 22.37 | 22.17 | 18.21    | 18.62 | 18.42 |
|                    |            | RB1#49                | 22.04                                   | 21.78 | 21.53 | 18.29    | 18.03 | 17.78 |
|                    |            | RB25#0                | 22.13                                   | 22.71 | 22.47 | 18.38    | 18.96 | 18.72 |
|                    |            | RB25#12               | 21.74                                   | 22.00 | 22.03 | 17.99    | 18.25 | 18.28 |
|                    |            | RB25#24               | 22.15                                   | 22.32 | 21.88 | 18.40    | 18.57 | 18.13 |
|                    |            | RB50#0                | 21.17                                   | 21.07 | 21.26 | 17.42    | 17.32 | 17.51 |
|                    | 16QAM      | RB1#0                 | 21.26                                   | 20.40 | 20.67 | 17.51    | 16.65 | 16.92 |
|                    |            | RB1#24                | 20.80                                   | 20.65 | 20.91 | 17.05    | 16.90 | 17.16 |
|                    |            | RB1#49                | 20.44                                   | 20.37 | 20.93 | 16.69    | 16.62 | 17.18 |
|                    |            | RB25#0                | 20.67                                   | 21.19 | 21.52 | 16.92    | 17.44 | 17.77 |
|                    |            | RB25#12               | 20.67                                   | 20.92 | 21.18 | 16.92    | 17.17 | 17.43 |
|                    |            | RB25#24               | 20.99                                   | 21.17 | 20.87 | 17.24    | 17.42 | 17.12 |
|                    |            | RB50#0                | 20.17                                   | 20.45 | 20.54 | 16.42    | 16.70 | 16.79 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)  
 For Band5: Antenna Gain = -1.6dBi = -3.75dBd (0dBd=2.15dBi)  
 Limit: ERP ≤ 38.45dBm

**Peak-to-average ratio (PAR)****10MHz bandwidth**

| Modulation        | Low channel (dB) | Middle channel (dB) | High channel (dB) | PAR Limit (dB) | Result |
|-------------------|------------------|---------------------|-------------------|----------------|--------|
| QPSK (1RB Size)   | 4.26             | 4.38                | 4.28              | 13             | Pass   |
| QPSK (50RB Size)  | 5.34             | 5.61                | 5.59              | 13             | Pass   |
| 16QAM (1RB Size)  | 5.39             | 4.55                | 5.32              | 13             | Pass   |
| 16QAM (50RB Size) | 6.27             | 6.66                | 6.32              | 13             | Pass   |

**LTE Band 7:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 18.38                                   | 18.11 | 18.08 | 17.98     | 17.71 | 17.68 |
|                    |            | RB1#12                | 17.88                                   | 17.97 | 17.79 | 17.48     | 17.57 | 17.39 |
|                    |            | RB1#24                | 17.7                                    | 17.58 | 17.71 | 17.3      | 17.18 | 17.31 |
|                    |            | RB12#0                | 18.09                                   | 18.19 | 18.09 | 17.69     | 17.79 | 17.69 |
|                    |            | RB12#6                | 18.02                                   | 18.17 | 17.94 | 17.62     | 17.77 | 17.54 |
|                    |            | RB12#11               | 18.06                                   | 18.01 | 17.96 | 17.66     | 17.61 | 17.56 |
|                    |            | RB25#0                | 16.97                                   | 16.62 | 16.68 | 16.57     | 16.22 | 16.28 |
|                    | 16QAM      | RB1#0                 | 17.08                                   | 16.69 | 16.56 | 16.68     | 16.29 | 16.16 |
|                    |            | RB1#12                | 17.2                                    | 16.85 | 16.66 | 16.8      | 16.45 | 16.26 |
|                    |            | RB1#24                | 16.43                                   | 16.57 | 16.57 | 16.03     | 16.17 | 16.17 |
|                    |            | RB12#0                | 16.29                                   | 16.76 | 16.94 | 15.89     | 16.36 | 16.54 |
|                    |            | RB12#6                | 16.39                                   | 16.69 | 16.57 | 15.99     | 16.29 | 16.17 |
|                    |            | RB12#11               | 16.25                                   | 16.87 | 17.01 | 15.85     | 16.47 | 16.61 |
|                    |            | RB25#0                | 16.01                                   | 15.9  | 16.04 | 15.61     | 15.5  | 15.64 |
| 10.0               | QPSK       | RB1#0                 | 18.15                                   | 18.07 | 17.92 | 17.75     | 17.67 | 17.52 |
|                    |            | RB1#24                | 17.8                                    | 17.7  | 17.79 | 17.4      | 17.3  | 17.39 |
|                    |            | RB1#49                | 17.67                                   | 17.59 | 17.75 | 17.27     | 17.19 | 17.35 |
|                    |            | RB25#0                | 18.21                                   | 18.22 | 17.89 | 17.81     | 17.82 | 17.49 |
|                    |            | RB25#12               | 17.84                                   | 18.19 | 18.3  | 17.44     | 17.79 | 17.9  |
|                    |            | RB25#24               | 17.81                                   | 18.01 | 18.07 | 17.41     | 17.61 | 17.67 |
|                    |            | RB50#0                | 16.69                                   | 16.62 | 16.73 | 16.29     | 16.22 | 16.33 |
|                    | 16QAM      | RB1#0                 | 16.84                                   | 16.38 | 16.5  | 16.44     | 15.98 | 16.1  |
|                    |            | RB1#24                | 16.93                                   | 16.56 | 16.73 | 16.53     | 16.16 | 16.33 |
|                    |            | RB1#49                | 16.55                                   | 16.74 | 16.71 | 16.15     | 16.34 | 16.31 |
|                    |            | RB25#0                | 16.34                                   | 16.65 | 16.69 | 15.94     | 16.25 | 16.29 |
|                    |            | RB25#12               | 16.4                                    | 16.59 | 16.59 | 16        | 16.19 | 16.19 |
|                    |            | RB25#24               | 16.5                                    | 16.81 | 16.84 | 16.1      | 16.41 | 16.44 |
|                    |            | RB50#0                | 16.19                                   | 16.11 | 16.02 | 15.79     | 15.71 | 15.62 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15.0               | QPSK       | RB1#0                 | 18.15                                   | 18.37 | 18.24 | 17.75     | 17.97 | 17.84 |
|                    |            | RB1#37                | 18.03                                   | 17.82 | 17.5  | 17.63     | 17.42 | 17.1  |
|                    |            | RB1#74                | 18.06                                   | 17.66 | 17.37 | 17.66     | 17.26 | 16.97 |
|                    |            | RB36#0                | 18.24                                   | 17.81 | 18.24 | 17.84     | 17.41 | 17.84 |
|                    |            | RB36#18               | 18.44                                   | 18.22 | 17.99 | 18.04     | 17.82 | 17.59 |
|                    |            | RB36#37               | 17.59                                   | 17.62 | 17.71 | 17.19     | 17.22 | 17.31 |
|                    |            | RB75#0                | 16.57                                   | 16.67 | 16.68 | 16.17     | 16.27 | 16.28 |
|                    | 16QAM      | RB1#0                 | 17.04                                   | 16.55 | 16.54 | 16.64     | 16.15 | 16.14 |
|                    |            | RB1#37                | 16.95                                   | 16.69 | 16.92 | 16.55     | 16.29 | 16.52 |
|                    |            | RB1#74                | 16.86                                   | 16.46 | 16.46 | 16.46     | 16.06 | 16.06 |
|                    |            | RB36#0                | 16.16                                   | 16.83 | 16.46 | 15.76     | 16.43 | 16.06 |
|                    |            | RB36#18               | 16.62                                   | 16.79 | 16.48 | 16.22     | 16.39 | 16.08 |
|                    |            | RB36#37               | 16.36                                   | 16.82 | 16.9  | 15.96     | 16.42 | 16.5  |
|                    |            | RB75#0                | 16.23                                   | 15.77 | 16.07 | 15.83     | 15.37 | 15.67 |
| 20.0               | QPSK       | RB1#0                 | 18.37                                   | 18.35 | 18.24 | 17.97     | 17.95 | 17.84 |
|                    |            | RB1#49                | 17.8                                    | 17.69 | 17.77 | 17.4      | 17.29 | 17.37 |
|                    |            | RB1#99                | 17.65                                   | 17.78 | 17.7  | 17.25     | 17.38 | 17.3  |
|                    |            | RB50#0                | 17.89                                   | 18.11 | 18.02 | 17.49     | 17.71 | 17.62 |
|                    |            | RB50#24               | 17.94                                   | 17.99 | 18.18 | 17.54     | 17.59 | 17.78 |
|                    |            | RB50#49               | 18.1                                    | 18.16 | 17.97 | 17.7      | 17.76 | 17.57 |
|                    |            | RB100#0               | 16.66                                   | 16.88 | 16.65 | 16.26     | 16.48 | 16.25 |
|                    | 16QAM      | RB1#0                 | 16.88                                   | 16.41 | 16.8  | 16.48     | 16.01 | 16.4  |
|                    |            | RB1#49                | 17.25                                   | 16.61 | 16.83 | 16.85     | 16.21 | 16.43 |
|                    |            | RB1#99                | 16.65                                   | 16.37 | 16.87 | 16.25     | 15.97 | 16.47 |
|                    |            | RB50#0                | 16.46                                   | 16.71 | 16.89 | 16.06     | 16.31 | 16.49 |
|                    |            | RB50#24               | 16.7                                    | 16.64 | 16.89 | 16.3      | 16.24 | 16.49 |
|                    |            | RB50#49               | 16.23                                   | 17.01 | 16.88 | 15.83     | 16.61 | 16.48 |
|                    |            | RB100#0               | 16.31                                   | 15.93 | 16.01 | 15.91     | 15.53 | 15.61 |

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

For Band 7: Antenna Gain = -0.4dBi

Limit: EIRP ≤ 33dBm

**Peak-to-average ratio (PAR)****20MHz bandwidth**

| Modulation            | Low channel<br>(dB) | Middle channel<br>(dB) | High channel<br>(dB) | PAR Limit<br>(dB) | Result |
|-----------------------|---------------------|------------------------|----------------------|-------------------|--------|
| QPSK<br>(1RB Size)    | 4.79                | 4.51                   | 3.64                 | 13                | Pass   |
| QPSK<br>(100RB Size)  | 5.47                | 5.62                   | 5.46                 | 13                | Pass   |
| 16QAM<br>(1RB Size)   | 5.41                | 5.61                   | 4.57                 | 13                | Pass   |
| 16QAM<br>(100RB Size) | 6.13                | 6.39                   | 6.26                 | 13                | Pass   |

**LTE Band 17:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 22.70                                   | 22.75 | 22.65 | 18.65     | 18.70 | 18.60 |
|                    |            | RB1#12                | 22.71                                   | 22.57 | 22.54 | 18.66     | 18.52 | 18.49 |
|                    |            | RB1#24                | 22.71                                   | 22.23 | 22.45 | 18.66     | 18.18 | 18.40 |
|                    |            | RB12#0                | 21.76                                   | 21.75 | 21.73 | 17.71     | 17.70 | 17.68 |
|                    |            | RB12#6                | 21.74                                   | 21.74 | 21.70 | 17.69     | 17.69 | 17.65 |
|                    |            | RB12#11               | 21.71                                   | 21.77 | 21.71 | 17.66     | 17.72 | 17.66 |
|                    |            | RB25#0                | 21.68                                   | 21.99 | 21.71 | 17.63     | 17.94 | 17.66 |
|                    | 16QAM      | RB1#0                 | 21.54                                   | 21.94 | 21.60 | 17.49     | 17.89 | 17.55 |
|                    |            | RB1#12                | 21.54                                   | 21.89 | 21.61 | 17.49     | 17.84 | 17.56 |
|                    |            | RB1#24                | 20.77                                   | 20.77 | 20.80 | 16.72     | 16.72 | 16.75 |
|                    |            | RB12#0                | 20.74                                   | 20.73 | 20.74 | 16.69     | 16.68 | 16.69 |
|                    |            | RB12#6                | 20.74                                   | 20.80 | 20.05 | 16.69     | 16.75 | 16.00 |
|                    |            | RB12#11               | 20.78                                   | 21.25 | 20.87 | 16.73     | 17.20 | 16.82 |
|                    |            | RB25#0                | 20.10                                   | 20.05 | 20.46 | 16.05     | 16.00 | 16.41 |
| 10.0               | QPSK       | RB1#0                 | 22.79                                   | 22.30 | 22.24 | 18.74     | 18.25 | 18.19 |
|                    |            | RB1#24                | 22.86                                   | 22.37 | 22.36 | 18.81     | 18.32 | 18.31 |
|                    |            | RB1#49                | 22.71                                   | 22.22 | 22.18 | 18.66     | 18.17 | 18.13 |
|                    |            | RB25#0                | 21.89                                   | 21.38 | 21.41 | 17.84     | 17.33 | 17.36 |
|                    |            | RB25#12               | 21.81                                   | 21.35 | 21.29 | 17.76     | 17.30 | 17.24 |
|                    |            | RB25#24               | 21.28                                   | 20.98 | 20.47 | 17.23     | 16.93 | 16.42 |
|                    |            | RB50#0                | 21.66                                   | 21.45 | 21.44 | 17.61     | 17.40 | 17.39 |
|                    | 16QAM      | RB1#0                 | 21.71                                   | 21.54 | 21.52 | 17.66     | 17.49 | 17.47 |
|                    |            | RB1#24                | 21.49                                   | 21.35 | 21.35 | 17.44     | 17.30 | 17.30 |
|                    |            | RB1#49                | 20.87                                   | 20.43 | 20.42 | 16.82     | 16.38 | 16.37 |
|                    |            | RB25#0                | 20.89                                   | 20.41 | 20.36 | 16.84     | 16.36 | 16.31 |
|                    |            | RB25#12               | 20.35                                   | 20.09 | 20.15 | 16.30     | 16.04 | 16.10 |
|                    |            | RB25#24               | 20.99                                   | 21.17 | 20.87 | 16.94     | 17.12 | 16.82 |
|                    |            | RB50#0                | 20.17                                   | 20.45 | 20.54 | 16.12     | 16.40 | 16.49 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
 For Band 17: Antenna Gain = -1.9dBi=-4.05dBd(0dBd=2.15dBi)  
 Limit: EIRP≤34.77dBm

**Peak-to-average ratio (PAR)****10MHz bandwidth**

| Modulation           | Low channel<br>(dB) | Middle channel<br>(dB) | High channel<br>(dB) | PAR Limit<br>(dB) | Result |
|----------------------|---------------------|------------------------|----------------------|-------------------|--------|
| QPSK<br>(1RB Size)   | 4.33                | 4.41                   | 4.27                 | 13                | Pass   |
| QPSK<br>(50RB Size)  | 5.28                | 5.22                   | 5.36                 | 13                | Pass   |
| 16QAM<br>(1RB Size)  | 5.31                | 5.42                   | 5.44                 | 13                | Pass   |
| 16QAM<br>(50RB Size) | 6.39                | 6.28                   | 6.37                 | 13                | Pass   |

**LTE Band 38****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5                  | QPSK       | RB1#0                 | 15.07                                   | 15.01 | 15.06 | 14.67     | 14.61 | 14.66 |
|                    |            | RB1#12                | 14.78                                   | 14.88 | 14.82 | 14.38     | 14.48 | 14.42 |
|                    |            | RB1#24                | 14.78                                   | 14.7  | 14.84 | 14.38     | 14.3  | 14.44 |
|                    |            | RB12#0                | 14.59                                   | 14.75 | 14.74 | 14.19     | 14.35 | 14.34 |
|                    |            | RB12#6                | 14.57                                   | 14.54 | 14.93 | 14.17     | 14.14 | 14.53 |
|                    |            | RB12#11               | 14.54                                   | 14.74 | 14.85 | 14.14     | 14.34 | 14.45 |
|                    |            | RB25#0                | 14.72                                   | 14.81 | 14.74 | 14.32     | 14.41 | 14.34 |
|                    | 16QAM      | RB1#0                 | 14.71                                   | 14.8  | 14.69 | 14.31     | 14.4  | 14.29 |
|                    |            | RB1#12                | 14.84                                   | 14.86 | 14.61 | 14.44     | 14.46 | 14.21 |
|                    |            | RB1#24                | 14.69                                   | 14.74 | 14.59 | 14.29     | 14.34 | 14.19 |
|                    |            | RB12#0                | 14.8                                    | 14.49 | 14.88 | 14.4      | 14.09 | 14.48 |
|                    |            | RB12#6                | 14.9                                    | 14.53 | 14.91 | 14.5      | 14.13 | 14.51 |
|                    |            | RB12#11               | 14.61                                   | 14.95 | 14.97 | 14.21     | 14.55 | 14.57 |
|                    |            | RB25#0                | 14.04                                   | 13.83 | 13.96 | 13.64     | 13.43 | 13.56 |
| 10                 | QPSK       | RB1#0                 | 15.11                                   | 15.05 | 15.04 | 14.71     | 14.65 | 14.64 |
|                    |            | RB1#24                | 14.6                                    | 14.49 | 14.57 | 14.2      | 14.09 | 14.17 |
|                    |            | RB1#49                | 14.45                                   | 14.58 | 14.5  | 14.05     | 14.18 | 14.1  |
|                    |            | RB25#0                | 14.69                                   | 14.91 | 14.82 | 14.29     | 14.51 | 14.42 |
|                    |            | RB25#12               | 14.74                                   | 14.79 | 14.98 | 14.34     | 14.39 | 14.58 |
|                    |            | RB25#24               | 14.9                                    | 14.96 | 14.77 | 14.5      | 14.56 | 14.37 |
|                    |            | RB50#0                | 14.46                                   | 14.68 | 14.45 | 14.06     | 14.28 | 14.05 |
|                    | 16QAM      | RB1#0                 | 14.68                                   | 14.21 | 14.6  | 14.28     | 13.81 | 14.2  |
|                    |            | RB1#24                | 15.05                                   | 14.41 | 14.63 | 14.65     | 14.01 | 14.23 |
|                    |            | RB1#49                | 14.45                                   | 14.17 | 14.67 | 14.05     | 13.77 | 14.27 |
|                    |            | RB25#0                | 14.26                                   | 14.51 | 14.69 | 13.86     | 14.11 | 14.29 |
|                    |            | RB25#12               | 14.5                                    | 14.44 | 14.69 | 14.1      | 14.04 | 14.29 |
|                    |            | RB25#24               | 14.03                                   | 14.81 | 14.68 | 13.63     | 14.41 | 14.28 |
|                    |            | RB50#0                | 14.11                                   | 13.73 | 13.81 | 13.71     | 13.33 | 13.41 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15                 | QPSK       | RB1#0                 | 15.06                                   | 15    | 15.14 | 14.66     | 14.6  | 14.74 |
|                    |            | RB1#37                | 14.42                                   | 14.89 | 14.67 | 14.02     | 14.49 | 14.27 |
|                    |            | RB1#74                | 14.7                                    | 14.89 | 14.68 | 14.3      | 14.49 | 14.28 |
|                    |            | RB36#0                | 14.82                                   | 14.58 | 14.77 | 14.42     | 14.18 | 14.37 |
|                    |            | RB36#18               | 14.63                                   | 14.84 | 14.55 | 14.23     | 14.44 | 14.15 |
|                    |            | RB36#37               | 14.61                                   | 14.95 | 14.85 | 14.21     | 14.55 | 14.45 |
|                    |            | RB75#0                | 14.73                                   | 14.57 | 14.82 | 14.33     | 14.17 | 14.42 |
|                    | 16QAM      | RB1#0                 | 14.51                                   | 14.82 | 14.63 | 14.11     | 14.42 | 14.23 |
|                    |            | RB1#37                | 14.73                                   | 14.98 | 15.05 | 14.33     | 14.58 | 14.65 |
|                    |            | RB1#74                | 14.56                                   | 14.9  | 14.57 | 14.16     | 14.5  | 14.17 |
|                    |            | RB36#0                | 14.91                                   | 14.8  | 15.03 | 14.51     | 14.4  | 14.63 |
|                    |            | RB36#18               | 15.05                                   | 14.97 | 14.85 | 14.65     | 14.57 | 14.45 |
|                    |            | RB36#37               | 14.91                                   | 14.54 | 15.15 | 14.51     | 14.14 | 14.75 |
|                    |            | RB75#0                | 13.82                                   | 13.75 | 13.85 | 13.42     | 13.35 | 13.45 |
| 20                 | QPSK       | RB1#0                 | 14.9                                    | 15.02 | 14.84 | 14.5      | 14.62 | 14.44 |
|                    |            | RB1#49                | 14.67                                   | 14.57 | 14.81 | 14.27     | 14.17 | 14.41 |
|                    |            | RB1#99                | 14.56                                   | 14.6  | 14.96 | 14.16     | 14.2  | 14.56 |
|                    |            | RB50#0                | 14.4                                    | 14.59 | 14.67 | 14        | 14.19 | 14.27 |
|                    |            | RB50#24               | 14.77                                   | 14.67 | 14.64 | 14.37     | 14.27 | 14.24 |
|                    |            | RB50#49               | 14.53                                   | 14.79 | 14.54 | 14.13     | 14.39 | 14.14 |
|                    |            | RB100#0               | 14.71                                   | 14.79 | 14.95 | 14.31     | 14.39 | 14.55 |
|                    | 16QAM      | RB1#0                 | 14.69                                   | 14.79 | 14.63 | 14.29     | 14.39 | 14.23 |
|                    |            | RB1#49                | 14.9                                    | 14.77 | 15.09 | 14.5      | 14.37 | 14.69 |
|                    |            | RB1#99                | 14.77                                   | 14.75 | 14.86 | 14.37     | 14.35 | 14.46 |
|                    |            | RB50#0                | 14.61                                   | 14.77 | 14.77 | 14.21     | 14.37 | 14.37 |
|                    |            | RB50#24               | 14.72                                   | 14.63 | 14.59 | 14.32     | 14.23 | 14.19 |
|                    |            | RB50#49               | 13.99                                   | 14.46 | 14.76 | 13.59     | 14.06 | 14.36 |
|                    |            | RB100#0               | 13.79                                   | 13.9  | 13.59 | 13.39     | 13.5  | 13.19 |

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

For Band 38: Antenna Gain = -0.4dBi

Limit: EIRP ≤ 33dBm

**Peak-to-average ratio (PAR)****20MHz bandwidth**

| Modulation            | Low channel<br>(dB) | Middle channel<br>(dB) | High channel<br>(dB) | PAR Limit<br>(dB) | Result |
|-----------------------|---------------------|------------------------|----------------------|-------------------|--------|
| QPSK<br>(1RB Size)    | 4.23                | 4.26                   | 4.33                 | 13                | Pass   |
| QPSK<br>(100RB Size)  | 5.32                | 5.25                   | 5.12                 | 13                | Pass   |
| 16QAM<br>(1RB Size)   | 5.35                | 5.30                   | 5.42                 | 13                | Pass   |
| 16QAM<br>(100RB Size) | 6.10                | 6.21                   | 6.75                 | 13                | Pass   |

**LTE Band 41:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5                  | QPSK       | RB1#0                 | 15.28                                   | 15.18 | 15.08 | 14.88     | 14.78 | 14.68 |
|                    |            | RB1#12                | 14.89                                   | 15.04 | 15.00 | 14.49     | 14.64 | 14.60 |
|                    |            | RB1#24                | 14.85                                   | 14.76 | 14.89 | 14.45     | 14.36 | 14.49 |
|                    |            | RB12#0                | 14.83                                   | 14.84 | 14.89 | 14.43     | 14.44 | 14.49 |
|                    |            | RB12#6                | 14.77                                   | 14.92 | 14.95 | 14.37     | 14.52 | 14.55 |
|                    |            | RB12#11               | 15.00                                   | 14.74 | 15.07 | 14.60     | 14.34 | 14.67 |
|                    |            | RB25#0                | 14.64                                   | 14.82 | 14.78 | 14.24     | 14.42 | 14.38 |
|                    | 16QAM      | RB1#0                 | 14.75                                   | 14.73 | 14.93 | 14.35     | 14.33 | 14.53 |
|                    |            | RB1#12                | 14.74                                   | 15.12 | 15.03 | 14.34     | 14.72 | 14.63 |
|                    |            | RB1#24                | 15.16                                   | 15.10 | 14.84 | 14.76     | 14.70 | 14.44 |
|                    |            | RB12#0                | 14.89                                   | 15.19 | 14.87 | 14.49     | 14.79 | 14.47 |
|                    |            | RB12#6                | 14.92                                   | 14.82 | 14.96 | 14.52     | 14.42 | 14.56 |
|                    |            | RB12#11               | 13.90                                   | 14.43 | 14.91 | 13.50     | 14.03 | 14.51 |
|                    |            | RB25#0                | 13.84                                   | 14.27 | 14.21 | 13.44     | 13.87 | 13.81 |
| 10                 | QPSK       | RB1#0                 | 15.25                                   | 15.31 | 15.23 | 14.85     | 14.91 | 14.83 |
|                    |            | RB1#24                | 14.95                                   | 14.77 | 14.99 | 14.55     | 14.37 | 14.59 |
|                    |            | RB1#49                | 14.80                                   | 14.86 | 15.08 | 14.40     | 14.46 | 14.68 |
|                    |            | RB25#0                | 14.72                                   | 14.98 | 14.85 | 14.32     | 14.58 | 14.45 |
|                    |            | RB25#12               | 14.94                                   | 14.87 | 14.99 | 14.54     | 14.47 | 14.59 |
|                    |            | RB25#24               | 14.84                                   | 14.95 | 14.88 | 14.44     | 14.55 | 14.48 |
|                    |            | RB50#0                | 14.94                                   | 14.77 | 14.90 | 14.54     | 14.37 | 14.50 |
|                    | 16QAM      | RB1#0                 | 14.99                                   | 14.81 | 15.10 | 14.59     | 14.41 | 14.70 |
|                    |            | RB1#24                | 15.02                                   | 14.98 | 14.77 | 14.62     | 14.58 | 14.37 |
|                    |            | RB1#49                | 15.15                                   | 15.16 | 14.94 | 14.75     | 14.76 | 14.54 |
|                    |            | RB25#0                | 14.89                                   | 15.05 | 15.12 | 14.49     | 14.65 | 14.72 |
|                    |            | RB25#12               | 14.93                                   | 14.83 | 15.15 | 14.53     | 14.43 | 14.75 |
|                    |            | RB25#24               | 13.77                                   | 14.72 | 14.84 | 13.37     | 14.32 | 14.44 |
|                    |            | RB50#0                | 13.93                                   | 13.95 | 13.95 | 13.53     | 13.55 | 13.55 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15                 | QPSK       | RB1#0                 | 15.17                                   | 15.45 | 15.20 | 14.77     | 15.05 | 14.80 |
|                    |            | RB1#37                | 14.84                                   | 14.87 | 14.94 | 14.44     | 14.47 | 14.54 |
|                    |            | RB1#74                | 14.89                                   | 14.90 | 15.02 | 14.49     | 14.50 | 14.62 |
|                    |            | RB36#0                | 14.86                                   | 14.78 | 14.82 | 14.46     | 14.38 | 14.42 |
|                    |            | RB36#18               | 15.07                                   | 15.04 | 15.21 | 14.67     | 14.64 | 14.81 |
|                    |            | RB36#37               | 15.05                                   | 15.07 | 15.09 | 14.65     | 14.67 | 14.69 |
|                    |            | RB75#0                | 15.02                                   | 14.95 | 14.85 | 14.62     | 14.55 | 14.45 |
|                    | 16QAM      | RB1#0                 | 14.87                                   | 14.88 | 14.93 | 14.47     | 14.48 | 14.53 |
|                    |            | RB1#37                | 15.16                                   | 14.92 | 14.80 | 14.76     | 14.52 | 14.40 |
|                    |            | RB1#74                | 14.83                                   | 14.91 | 14.80 | 14.43     | 14.51 | 14.40 |
|                    |            | RB36#0                | 15.05                                   | 15.30 | 15.21 | 14.65     | 14.90 | 14.81 |
|                    |            | RB36#18               | 14.74                                   | 15.16 | 14.85 | 14.34     | 14.76 | 14.45 |
|                    |            | RB36#37               | 13.79                                   | 14.74 | 14.82 | 13.39     | 14.34 | 14.42 |
|                    |            | RB75#0                | 14.03                                   | 13.96 | 14.01 | 13.63     | 13.56 | 13.61 |
| 20                 | QPSK       | RB1#0                 | 15.05                                   | 15.40 | 15.08 | 14.65     | 15.00 | 14.68 |
|                    |            | RB1#49                | 14.86                                   | 14.99 | 14.80 | 14.46     | 14.59 | 14.40 |
|                    |            | RB1#99                | 14.70                                   | 14.97 | 14.93 | 14.30     | 14.57 | 14.53 |
|                    |            | RB50#0                | 14.98                                   | 14.93 | 14.96 | 14.58     | 14.53 | 14.56 |
|                    |            | RB50#24               | 14.81                                   | 14.69 | 14.97 | 14.41     | 14.29 | 14.57 |
|                    |            | RB50#49               | 14.80                                   | 14.86 | 15.01 | 14.40     | 14.46 | 14.61 |
|                    |            | RB100#0               | 14.83                                   | 14.73 | 15.01 | 14.43     | 14.33 | 14.61 |
|                    | 16QAM      | RB1#0                 | 14.92                                   | 14.85 | 14.77 | 14.52     | 14.45 | 14.37 |
|                    |            | RB1#49                | 15.03                                   | 15.02 | 15.08 | 14.63     | 14.62 | 14.68 |
|                    |            | RB1#99                | 15.06                                   | 15.10 | 15.02 | 14.66     | 14.70 | 14.62 |
|                    |            | RB50#0                | 15.05                                   | 14.84 | 14.83 | 14.65     | 14.44 | 14.43 |
|                    |            | RB50#24               | 15.14                                   | 15.04 | 14.92 | 14.74     | 14.64 | 14.52 |
|                    |            | RB50#49               | 14.19                                   | 14.55 | 14.74 | 13.79     | 14.15 | 14.34 |
|                    |            | RB100#0               | 15.05                                   | 15.40 | 15.08 | 14.65     | 15.00 | 14.68 |

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

For Band 41: Antenna Gain = -0.4dBi

Limit: EIRP ≤ 33dBm

**Peak-to-average ratio (PAR)****10MHz bandwidth**

| Modulation           | Low channel<br>(dB) | Middle channel<br>(dB) | High channel<br>(dB) | PAR<br>Limit<br>(dB) | Result |
|----------------------|---------------------|------------------------|----------------------|----------------------|--------|
| QPSK<br>(1RB Size)   | 4.57                | 4.48                   | 4.42                 | 13                   | Pass   |
| QPSK<br>(50RB Size)  | 5.49                | 5.32                   | 5.21                 | 13                   | Pass   |
| 16QAM<br>(1RB Size)  | 5.41                | 5.54                   | 5.58                 | 13                   | Pass   |
| 16QAM<br>(50RB Size) | 6.69                | 6.31                   | 6.26                 | 13                   | Pass   |

**LTE Band 66:****Maximum Output Power**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 1.4                | QPSK       | RB1#0                 | 17.34                                   | 17.39 | 17.16 | 16.64     | 16.69 | 16.46 |
|                    |            | RB1#2                 | 17.51                                   | 17.60 | 17.26 | 16.81     | 16.90 | 16.56 |
|                    |            | RB1#5                 | 17.37                                   | 17.39 | 17.19 | 16.67     | 16.69 | 16.49 |
|                    |            | RB3#0                 | 17.48                                   | 17.47 | 17.30 | 16.78     | 16.77 | 16.60 |
|                    |            | RB3#1                 | 17.44                                   | 17.50 | 17.28 | 16.74     | 16.80 | 16.58 |
|                    |            | RB3#2                 | 16.42                                   | 16.40 | 16.30 | 15.72     | 15.70 | 15.60 |
|                    |            | RB6#0                 | 16.50                                   | 16.67 | 16.35 | 15.80     | 15.97 | 15.65 |
|                    | 16QAM      | RB1#0                 | 16.66                                   | 16.68 | 16.54 | 15.96     | 15.98 | 15.84 |
|                    |            | RB1#2                 | 16.50                                   | 16.52 | 16.35 | 15.80     | 15.82 | 15.65 |
|                    |            | RB1#5                 | 16.42                                   | 16.43 | 16.32 | 15.72     | 15.73 | 15.62 |
|                    |            | RB3#0                 | 16.44                                   | 16.47 | 16.32 | 15.74     | 15.77 | 15.62 |
|                    |            | RB3#1                 | 15.46                                   | 15.48 | 15.35 | 14.76     | 14.78 | 14.65 |
|                    |            | RB3#2                 | 17.15                                   | 17.23 | 17.02 | 16.45     | 16.53 | 16.32 |
|                    |            | RB6#0                 | 17.15                                   | 17.35 | 17.22 | 16.45     | 16.65 | 16.52 |
| 3.0                | QPSK       | RB1#0                 | 17.39                                   | 17.52 | 17.42 | 16.69     | 16.82 | 16.72 |
|                    |            | RB1#7                 | 17.76                                   | 17.83 | 17.29 | 17.06     | 17.13 | 16.59 |
|                    |            | RB1#14                | 17.64                                   | 17.51 | 17.36 | 16.94     | 16.81 | 16.66 |
|                    |            | RB8#0                 | 17.59                                   | 17.67 | 17.52 | 16.89     | 16.97 | 16.82 |
|                    |            | RB8#4                 | 17.67                                   | 17.80 | 17.42 | 16.97     | 17.10 | 16.72 |
|                    |            | RB8#7                 | 16.68                                   | 16.55 | 16.32 | 15.98     | 15.85 | 15.62 |
|                    |            | RB15#0                | 16.76                                   | 16.75 | 16.45 | 16.06     | 16.05 | 15.75 |
|                    | 16QAM      | RB1#0                 | 16.90                                   | 16.69 | 16.75 | 16.20     | 15.99 | 16.05 |
|                    |            | RB1#7                 | 16.62                                   | 16.65 | 16.42 | 15.92     | 15.95 | 15.72 |
|                    |            | RB1#14                | 16.67                                   | 16.70 | 16.61 | 15.97     | 16.00 | 15.91 |
|                    |            | RB8#0                 | 16.50                                   | 16.70 | 16.53 | 15.80     | 16.00 | 15.83 |
|                    |            | RB8#4                 | 15.76                                   | 15.76 | 15.42 | 15.06     | 15.06 | 14.72 |
|                    |            | RB8#7                 | 17.39                                   | 17.52 | 17.42 | 16.69     | 16.82 | 16.72 |
|                    |            | RB15#0                | 17.33                                   | 17.25 | 17.32 | 16.63     | 16.55 | 16.62 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 5.0                | QPSK       | RB1#0                 | 18.37                                   | 18.43 | 18.21 | 17.67     | 17.73 | 17.51 |
|                    |            | RB1#12                | 18.46                                   | 18.46 | 18.28 | 17.76     | 17.76 | 17.58 |
|                    |            | RB1#24                | 18.39                                   | 18.35 | 18.18 | 17.69     | 17.65 | 17.48 |
|                    |            | RB12#0                | 16.73                                   | 16.60 | 16.82 | 16.03     | 15.90 | 16.12 |
|                    |            | RB12#6                | 16.78                                   | 16.60 | 16.78 | 16.08     | 15.90 | 16.08 |
|                    |            | RB12#11               | 17.47                                   | 17.16 | 16.50 | 16.77     | 16.46 | 15.80 |
|                    |            | RB25#0                | 17.65                                   | 17.72 | 17.52 | 16.95     | 17.02 | 16.82 |
|                    | 16QAM      | RB1#0                 | 17.78                                   | 17.75 | 17.60 | 17.08     | 17.05 | 16.90 |
|                    |            | RB1#12                | 17.72                                   | 17.67 | 17.49 | 17.02     | 16.97 | 16.79 |
|                    |            | RB1#24                | 16.11                                   | 16.16 | 16.24 | 15.41     | 15.46 | 15.54 |
|                    |            | RB12#0                | 16.28                                   | 16.23 | 16.37 | 15.58     | 15.53 | 15.67 |
|                    |            | RB12#6                | 16.54                                   | 16.37 | 16.46 | 15.84     | 15.67 | 15.76 |
|                    |            | RB12#11               | 16.51                                   | 16.46 | 16.36 | 15.81     | 15.76 | 15.66 |
|                    |            | RB25#0                | 16.11                                   | 16.25 | 16.06 | 15.41     | 15.55 | 15.36 |
| 10.0               | QPSK       | RB1#0                 | 17.75                                   | 17.77 | 17.61 | 17.05     | 17.07 | 16.91 |
|                    |            | RB1#24                | 17.96                                   | 17.90 | 17.67 | 17.26     | 17.20 | 16.97 |
|                    |            | RB1#49                | 17.76                                   | 17.69 | 17.53 | 17.06     | 16.99 | 16.83 |
|                    |            | RB25#0                | 16.61                                   | 16.89 | 15.88 | 15.91     | 16.19 | 15.18 |
|                    |            | RB25#12               | 16.48                                   | 16.00 | 16.40 | 15.78     | 15.30 | 15.70 |
|                    |            | RB25#24               | 16.23                                   | 16.60 | 15.97 | 15.53     | 15.90 | 15.27 |
|                    |            | RB50#0                | 16.88                                   | 16.91 | 16.78 | 16.18     | 16.21 | 16.08 |
|                    | 16QAM      | RB1#0                 | 17.05                                   | 17.05 | 16.91 | 16.35     | 16.35 | 16.21 |
|                    |            | RB1#24                | 16.91                                   | 16.84 | 16.71 | 16.21     | 16.14 | 16.01 |
|                    |            | RB1#49                | 16.33                                   | 16.28 | 15.90 | 15.63     | 15.58 | 15.20 |
|                    |            | RB25#0                | 15.95                                   | 16.11 | 16.03 | 15.25     | 15.41 | 15.33 |
|                    |            | RB25#12               | 15.70                                   | 16.40 | 16.23 | 15.00     | 15.70 | 15.53 |
|                    |            | RB25#24               | 15.72                                   | 15.79 | 15.67 | 15.02     | 15.09 | 14.97 |
|                    |            | RB50#0                | 15.93                                   | 15.95 | 15.65 | 15.23     | 15.25 | 14.95 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB Offset | Conducted Average Output<br>Power (dBm) |       |       | EIRP(dBm) |       |       |
|--------------------|------------|-----------------------|-----------------------------------------|-------|-------|-----------|-------|-------|
|                    |            |                       | Low                                     | Mid   | High  | Low       | Mid   | High  |
| 15.0               | QPSK       | RB1#0                 | 18.27                                   | 18.3  | 18.37 | 17.57     | 17.6  | 17.67 |
|                    |            | RB1#37                | 18.21                                   | 18.42 | 18.45 | 17.51     | 17.72 | 17.75 |
|                    |            | RB1#74                | 18.23                                   | 18.37 | 18.35 | 17.53     | 17.67 | 17.65 |
|                    |            | RB36#0                | 18.22                                   | 18.26 | 18.32 | 17.52     | 17.56 | 17.62 |
|                    |            | RB36#18               | 18.29                                   | 18.26 | 18.26 | 17.59     | 17.56 | 17.56 |
|                    |            | RB36#37               | 17.3                                    | 17.31 | 17.34 | 16.6      | 16.61 | 16.64 |
|                    |            | RB75#0                | 17.04                                   | 17.11 | 17.08 | 16.34     | 16.41 | 16.38 |
|                    | 16QAM      | RB1#0                 | 17.41                                   | 17.37 | 17.42 | 16.71     | 16.67 | 16.72 |
|                    |            | RB1#37                | 17.52                                   | 17.46 | 17.52 | 16.82     | 16.76 | 16.82 |
|                    |            | RB1#74                | 17.64                                   | 17.6  | 17.53 | 16.94     | 16.9  | 16.83 |
|                    |            | RB36#0                | 17.22                                   | 17.3  | 17.34 | 16.52     | 16.6  | 16.64 |
|                    |            | RB36#18               | 17.2                                    | 17.31 | 17.45 | 16.5      | 16.61 | 16.75 |
|                    |            | RB36#37               | 16.36                                   | 16.27 | 16.35 | 15.66     | 15.57 | 15.65 |
|                    |            | RB75#0                | 16.24                                   | 15.95 | 16.05 | 15.54     | 15.25 | 15.35 |
| 20.0               | QPSK       | RB1#0                 | 18.38                                   | 18.29 | 18.36 | 17.68     | 17.59 | 17.66 |
|                    |            | RB1#49                | 18.13                                   | 18.28 | 18.32 | 17.43     | 17.58 | 17.62 |
|                    |            | RB1#99                | 18.3                                    | 18.31 | 18.34 | 17.6      | 17.61 | 17.64 |
|                    |            | RB50#0                | 17.34                                   | 17.37 | 17.36 | 16.64     | 16.67 | 16.66 |
|                    |            | RB50#24               | 17.33                                   | 17.32 | 17.33 | 16.63     | 16.62 | 16.63 |
|                    |            | RB50#49               | 17.34                                   | 17.38 | 17.37 | 16.64     | 16.68 | 16.67 |
|                    |            | RB100#0               | 17.16                                   | 17.07 | 16.98 | 16.46     | 16.37 | 16.28 |
|                    | 16QAM      | RB1#0                 | 17.49                                   | 17.65 | 17.58 | 16.79     | 16.95 | 16.88 |
|                    |            | RB1#49                | 17.33                                   | 17.48 | 17.54 | 16.63     | 16.78 | 16.84 |
|                    |            | RB1#99                | 17.38                                   | 17.26 | 17.46 | 16.68     | 16.56 | 16.76 |
|                    |            | RB50#0                | 16.47                                   | 16.29 | 16.27 | 15.77     | 15.59 | 15.57 |
|                    |            | RB50#24               | 16.28                                   | 16.27 | 16.22 | 15.58     | 15.57 | 15.52 |
|                    |            | RB50#49               | 16.33                                   | 16.31 | 16.37 | 15.63     | 15.61 | 15.67 |
|                    |            | RB100#0               | 16.14                                   | 16.22 | 16.07 | 15.44     | 15.52 | 15.37 |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
 For Band 66: Antenna Gain = -0.7dBi  
 Limit: EIRP ≤ 30dBm

**Peak-to-average ratio (PAR)****20MHz bandwidth**

| Modulation            | Low channel<br>(dB) | Middle channel<br>(dB) | High channel<br>(dB) | PAR<br>Limit<br>(dB) | Result |
|-----------------------|---------------------|------------------------|----------------------|----------------------|--------|
| QPSK<br>(1RB Size)    | 4.12                | 4.31                   | 4.36                 | 13                   | Pass   |
| QPSK<br>(100RB Size)  | 5.30                | 5.08                   | 4.85                 | 13                   | Pass   |
| 16QAM<br>(1RB Size)   | 5.28                | 5.46                   | 5.32                 | 13                   | Pass   |
| 16QAM<br>(100RB Size) | 6.30                | 6.00                   | 6.09                 | 13                   | Pass   |

## FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53 - OCCUPIED BANDWIDTH

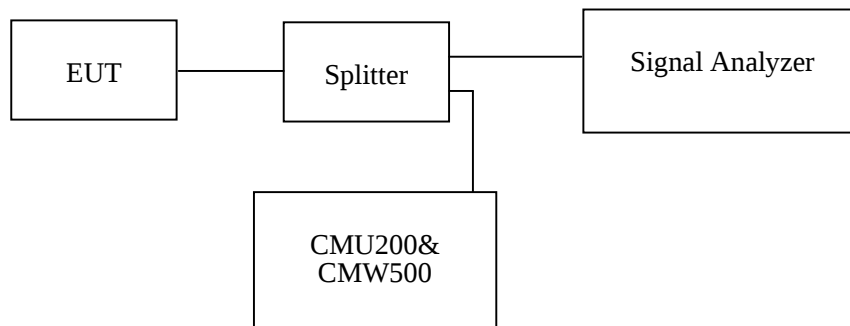
### Applicable Standard

FCC 47 §2.1049, §22.917, §22.905, §24.238 and §27.53.

### Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 55 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Gavin Guo from 2021-02-19 to 2021-03-22.*

*EUT operation mode: Transmitting*

**Test Result: Pass**

*Please refer to the following tables and plots.*

**Cellular Band (Part 22H)**

| Mode        | Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26 dB Emission Bandwidth (kHz) |
|-------------|---------|-----------------|------------------------------|--------------------------------|
| GSM(GMSK)   | 128     | 824.2           | 246.020                      | 315.500                        |
|             | 190     | 836.6           | 244.573                      | 319.800                        |
|             | 251     | 848.8           | 246.020                      | 315.500                        |
| EGPRS(8PSK) | 128     | 824.2           | 251.809                      | 321.300                        |
|             | 190     | 836.6           | 251.809                      | 328.500                        |
|             | 251     | 848.8           | 251.809                      | 324.200                        |

|       | Frequency (MHz) | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
|-------|-----------------|--------------------------|----------------------|
| RMC   | 826.4           | 4.139                    | 4.703                |
|       | 836.6           | 4.168                    | 4.703                |
|       | 846.6           | 4.168                    | 4.703                |
| HSDPA | 826.4           | 4.168                    | 4.703                |
|       | 836.6           | 4.182                    | 4.703                |
|       | 846.6           | 4.211                    | 5.094                |
| HSUPA | 826.4           | 4.197                    | 4.978                |
|       | 836.6           | 4.211                    | 4.891                |
|       | 846.6           | 4.182                    | 4.718                |

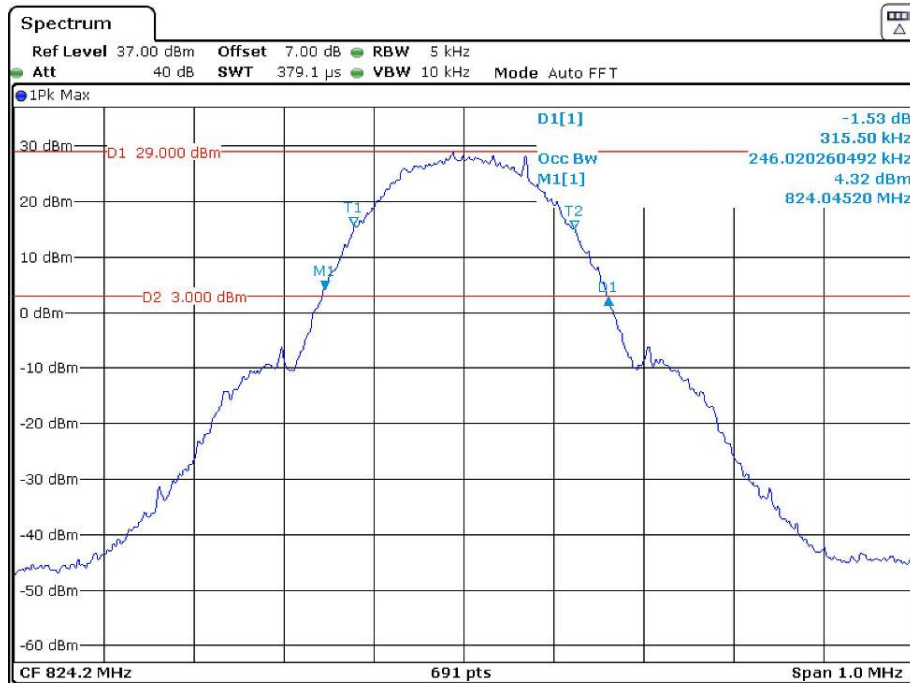
**PCS Band (Part 24E)**

| Mode        | Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26 dB Emission Bandwidth (kHz) |
|-------------|---------|-----------------|------------------------------|--------------------------------|
| GSM(GMSK)   | 512     | 1850.2          | 244.573                      | 322.700                        |
|             | 661     | 1880.0          | 244.573                      | 315.500                        |
|             | 810     | 1909.8          | 244.573                      | 319.800                        |
| EGPRS(8PSK) | 512     | 1850.2          | 248.915                      | 322.700                        |
|             | 661     | 1880.0          | 253.256                      | 324.200                        |
|             | 810     | 1909.8          | 253.256                      | 325.600                        |

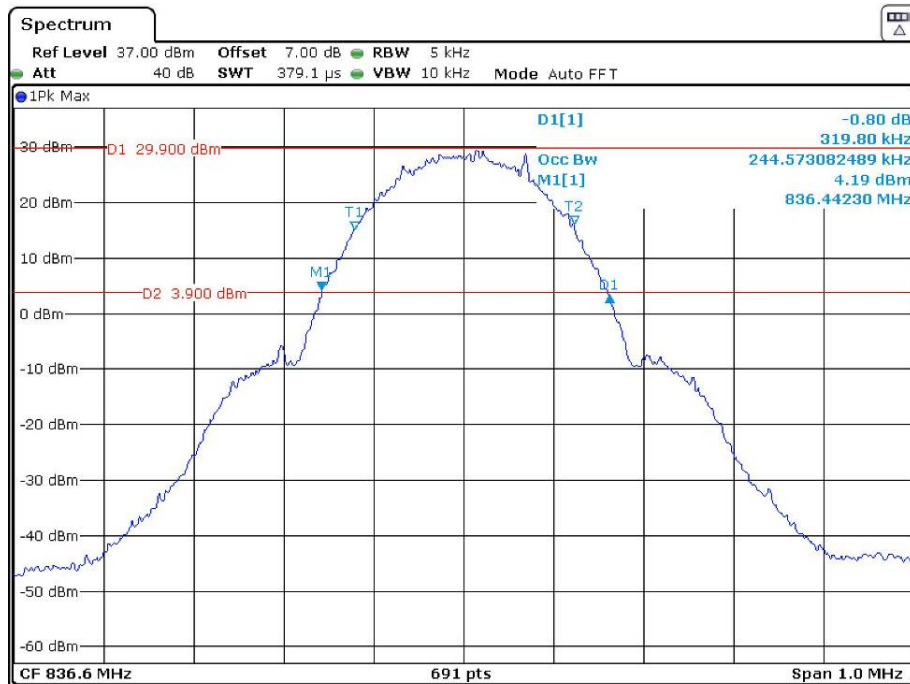
| Frequency (MHz) |        | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
|-----------------|--------|--------------------------|----------------------|
| RMC             | 1852.4 | 4.197                    | 4.747                |
|                 | 1880.0 | 4.182                    | 4.732                |
|                 | 1907.6 | 4.168                    | 4.718                |
| HSDPA           | 1852.4 | 4.182                    | 4.718                |
|                 | 1880.0 | 4.197                    | 4.718                |
|                 | 1907.6 | 4.182                    | 4.718                |
| HSUPA           | 1852.4 | 4.226                    | 5.080                |
|                 | 1880.0 | 4.182                    | 4.747                |
|                 | 1907.6 | 4.211                    | 4.776                |

**AWS Band (Part 27)**

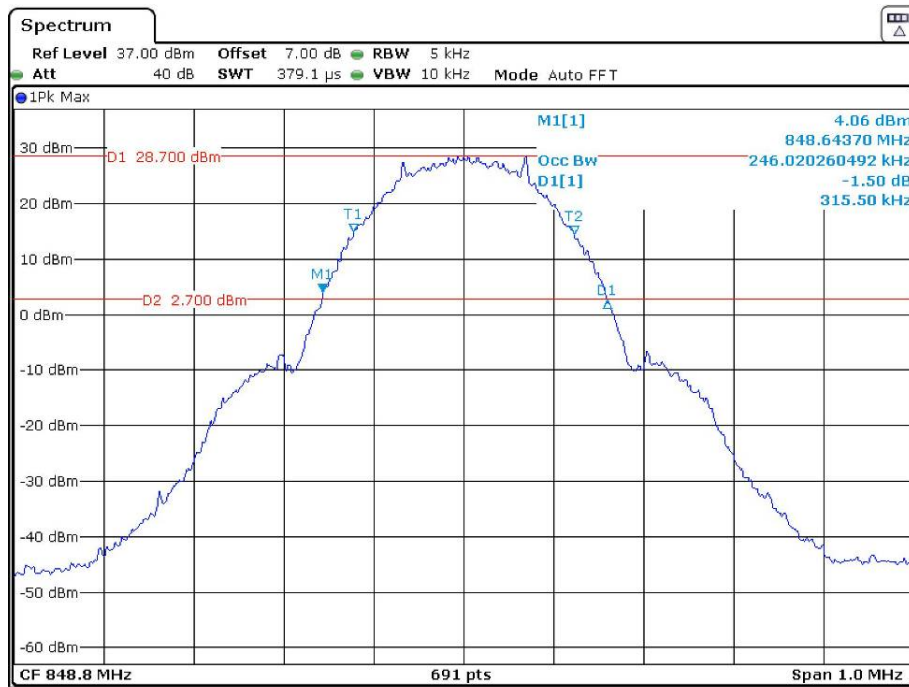
| Frequency (MHz) |        | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
|-----------------|--------|--------------------------|----------------------|
| RMC             | 1712.4 | 4.168                    | 4.703                |
|                 | 1732.6 | 4.168                    | 4.703                |
|                 | 1752.6 | 4.168                    | 4.703                |
| HSDPA           | 1712.4 | 4.197                    | 5.022                |
|                 | 1732.6 | 4.168                    | 4.703                |
|                 | 1752.6 | 4.197                    | 4.819                |
| HSUPA           | 1712.4 | 4.197                    | 4.776                |
|                 | 1732.6 | 4.168                    | 4.732                |
|                 | 1752.6 | 4.197                    | 4.761                |

**Cellular Band (Part 22H)****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel**

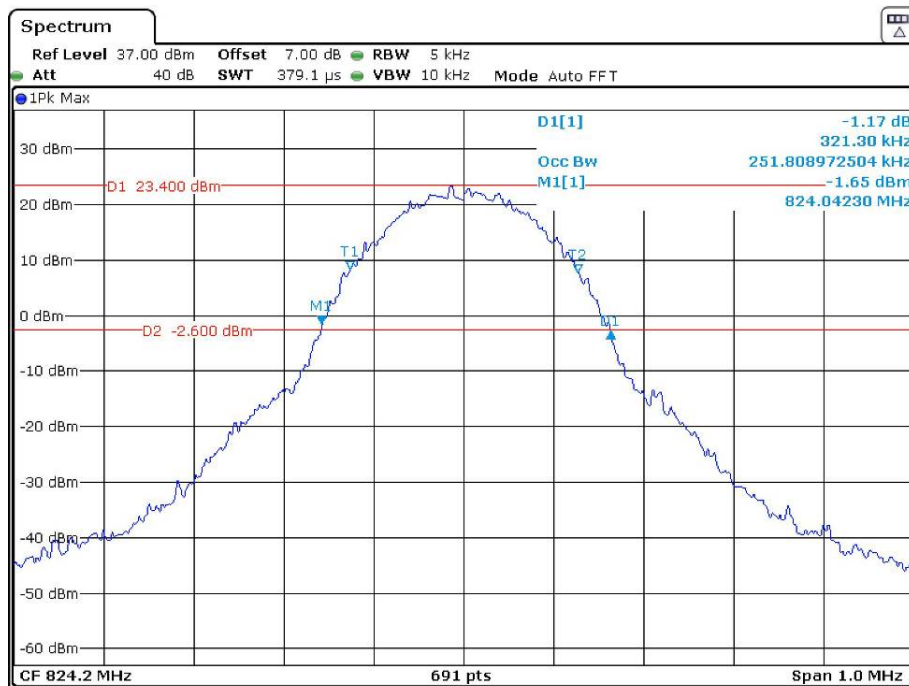
Date: 19.FEB.2021 14:16:43

**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel**

Date: 19.FEB.2021 14:14:40

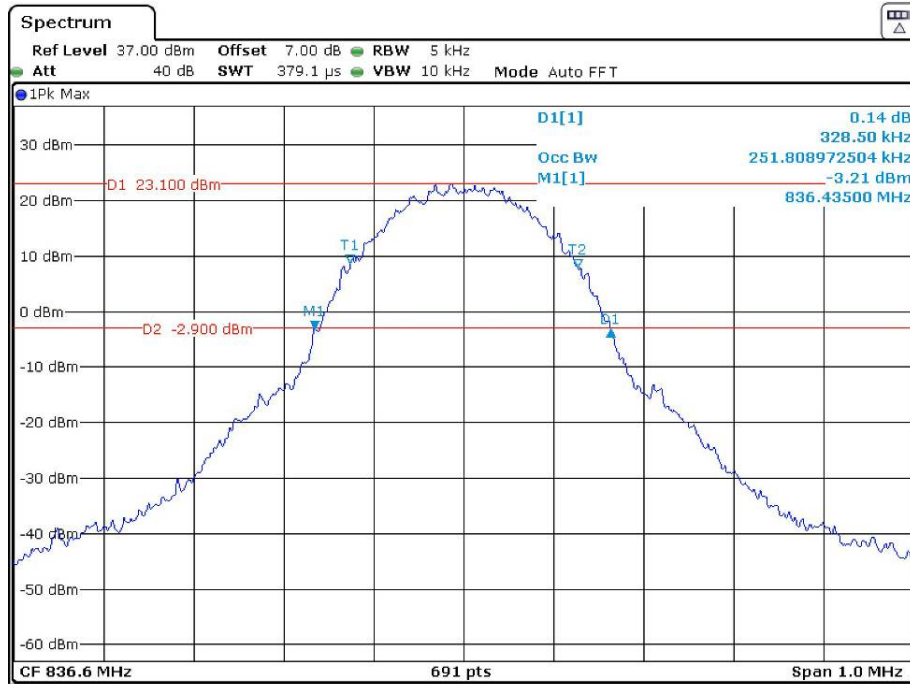
**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel**

Date: 19.FEB.2021 14:18:24

**26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Low channel**

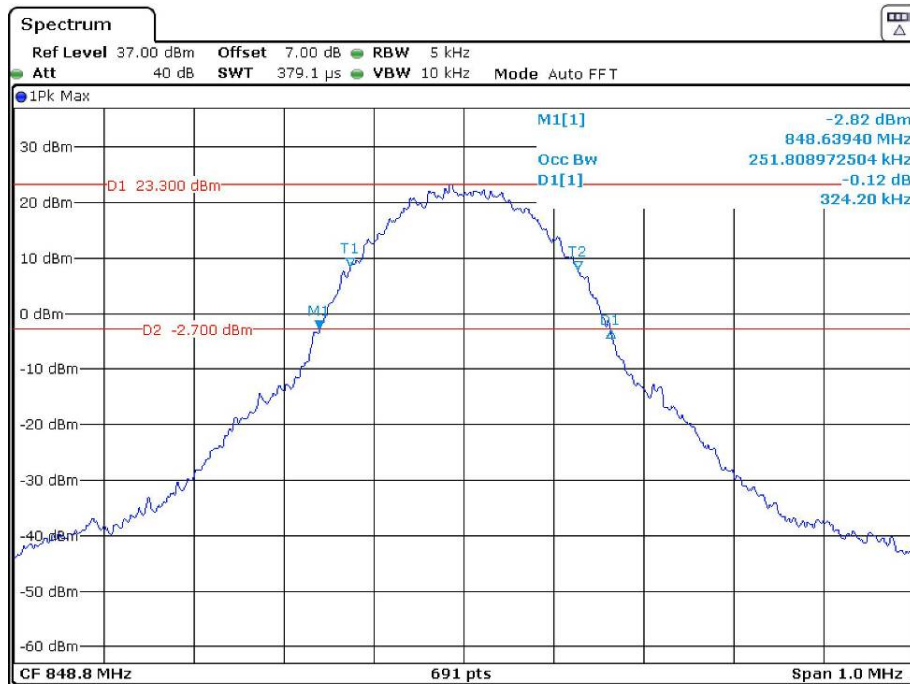
Date: 19.FEB.2021 14:55:13

**26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel**



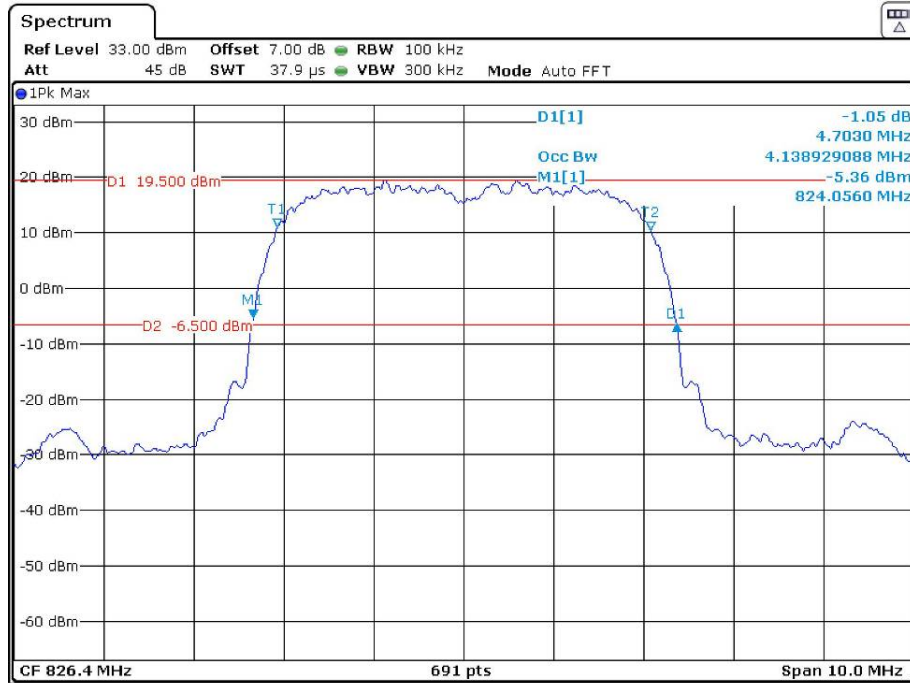
Date: 19.FEB.2021 14:53:46

**26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel**



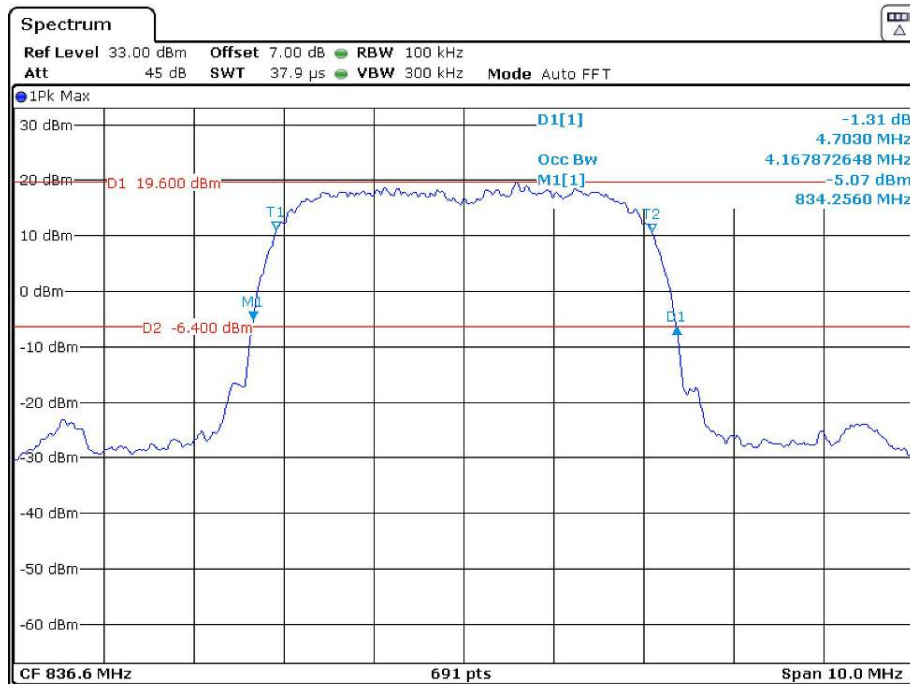
Date: 19.FEB.2021 14:50:49

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel



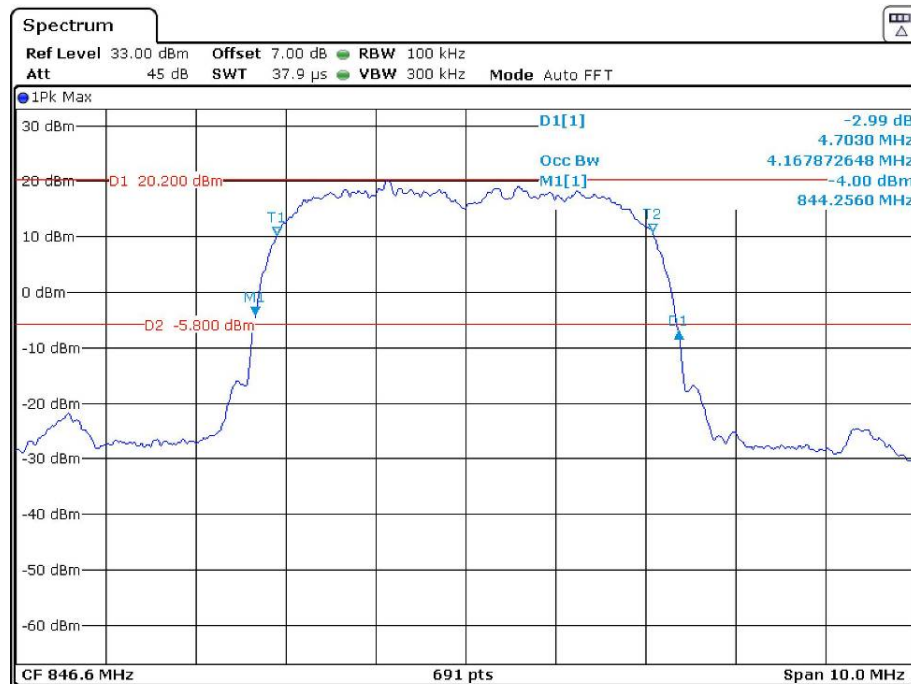
Date: 19.FEB.2021 20:23:38

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel



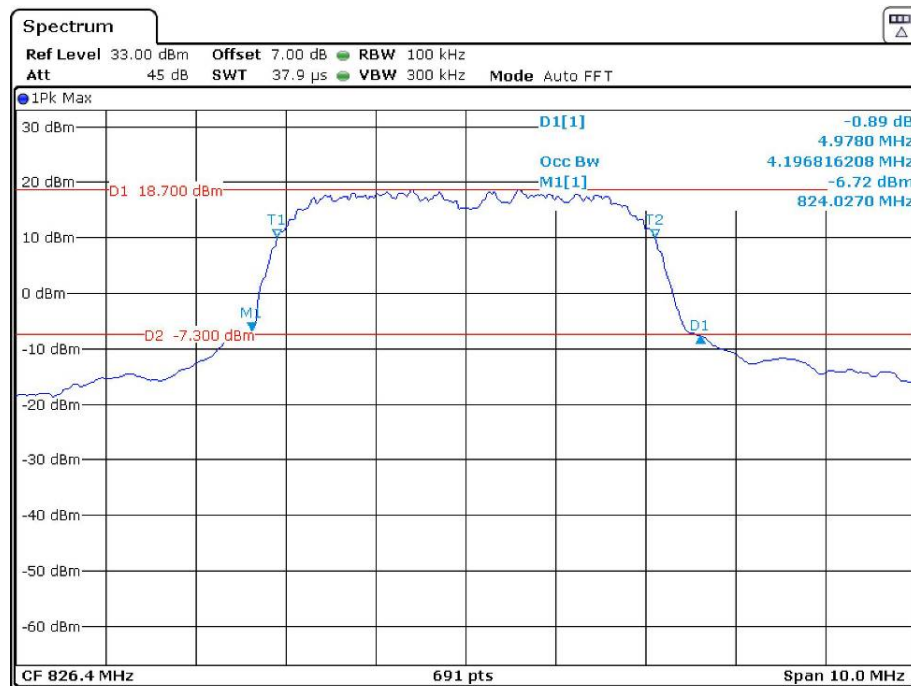
Date: 19.FEB.2021 20:24:37

### 26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel



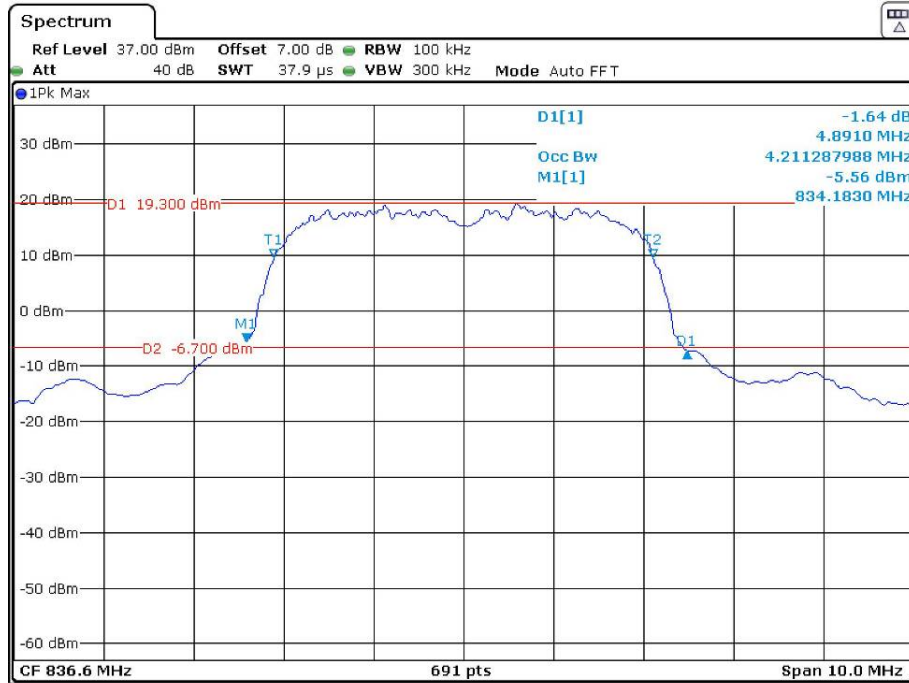
Date: 19.FEB.2021 20:25:28

### 26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel



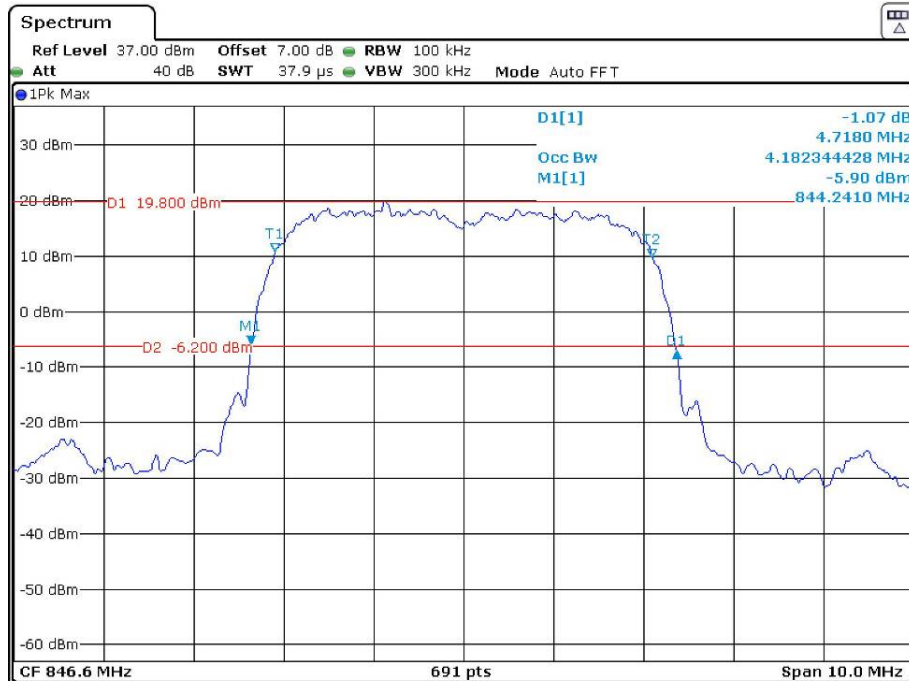
Date: 19.FEB.2021 20:22:28

**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Middle channel**

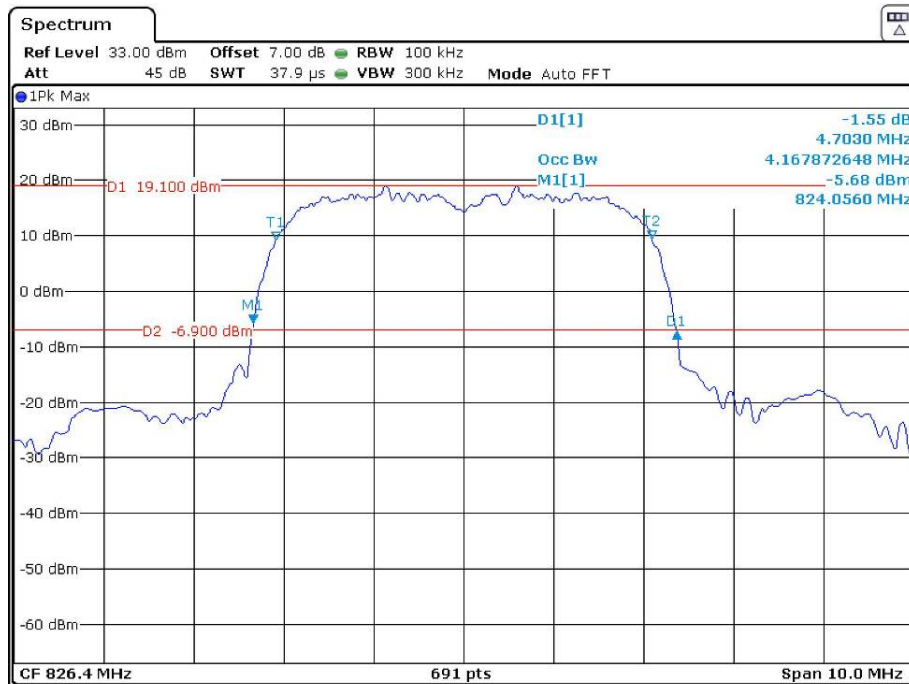


Date: 20.FEB.2021 16:49:29

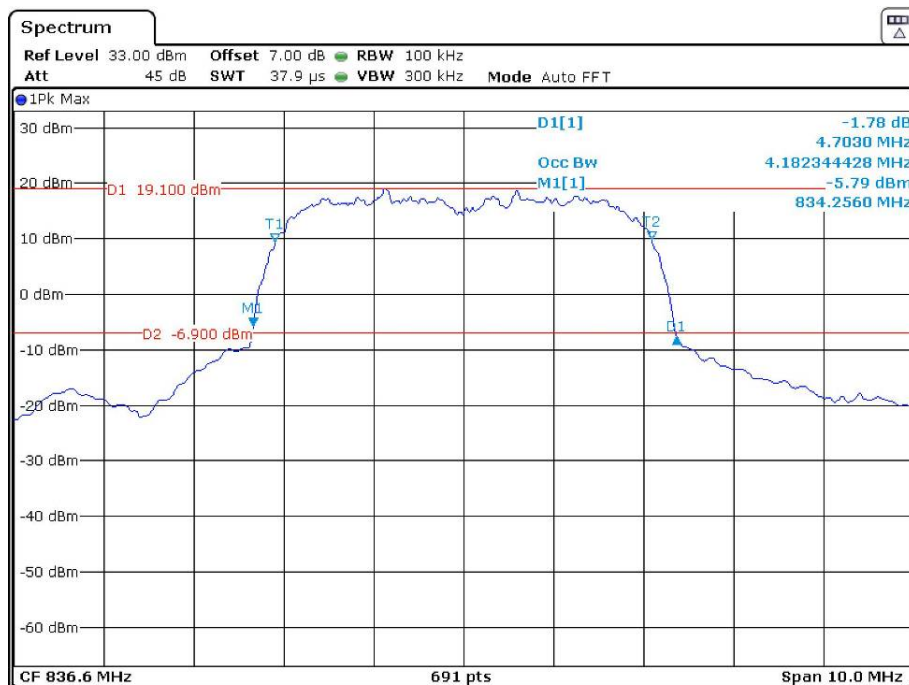
**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, High channel**



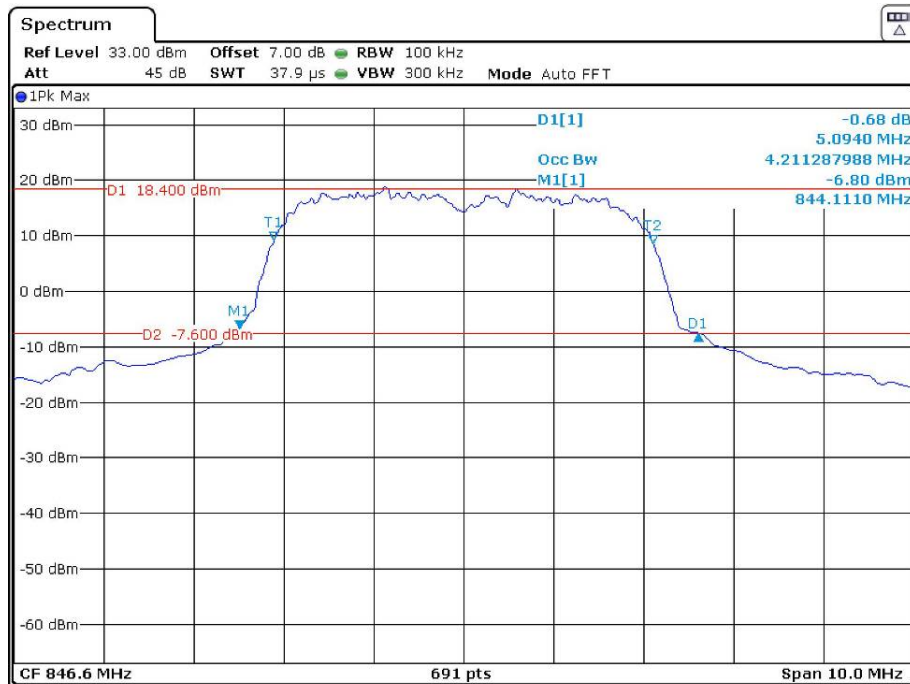
Date: 20.FEB.2021 16:47:49

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel**

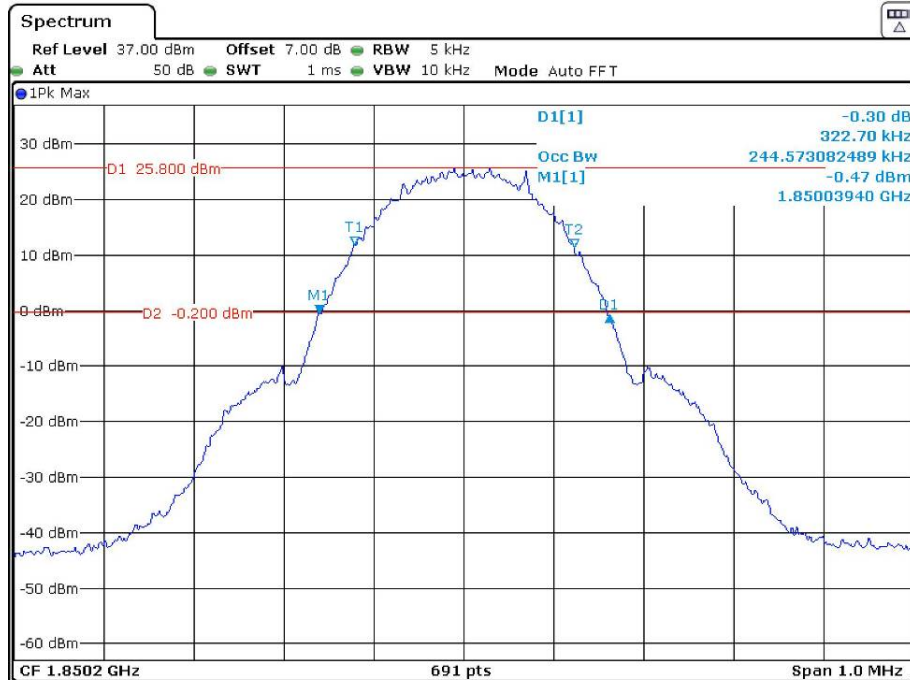
Date: 19.FEB.2021 20:12:26

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Middle channel**

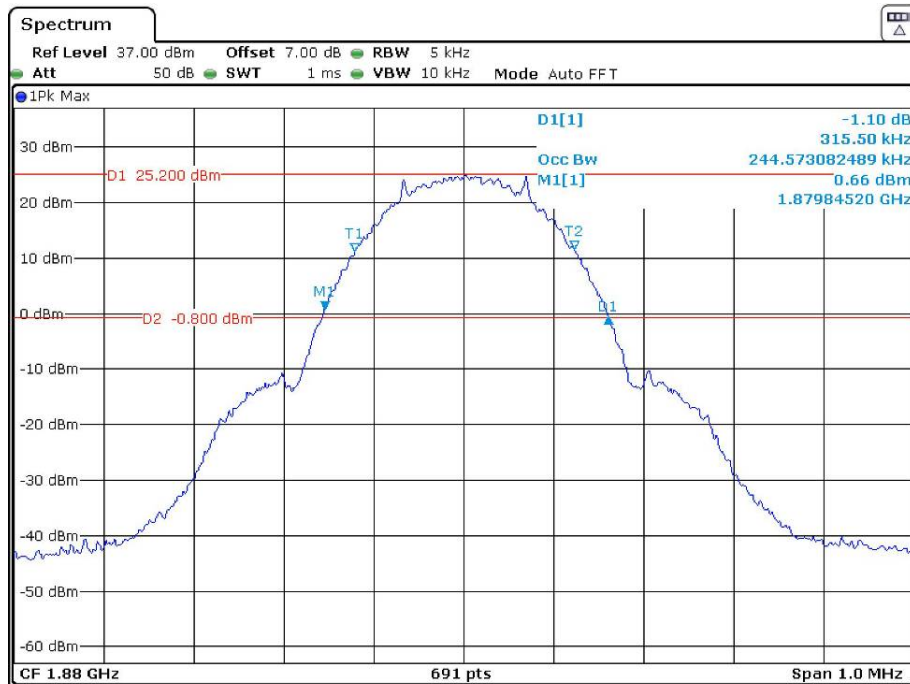
Date: 19.FEB.2021 20:14:25

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, High channel**

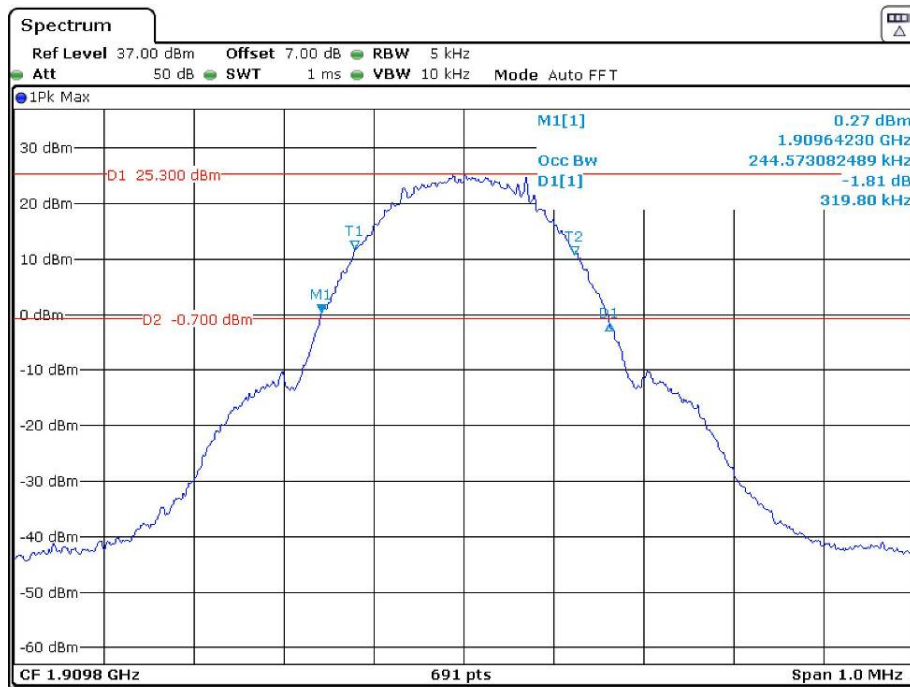
Date: 19.FEB.2021 20:16:10

**PCS Band (Part 24E)****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel**

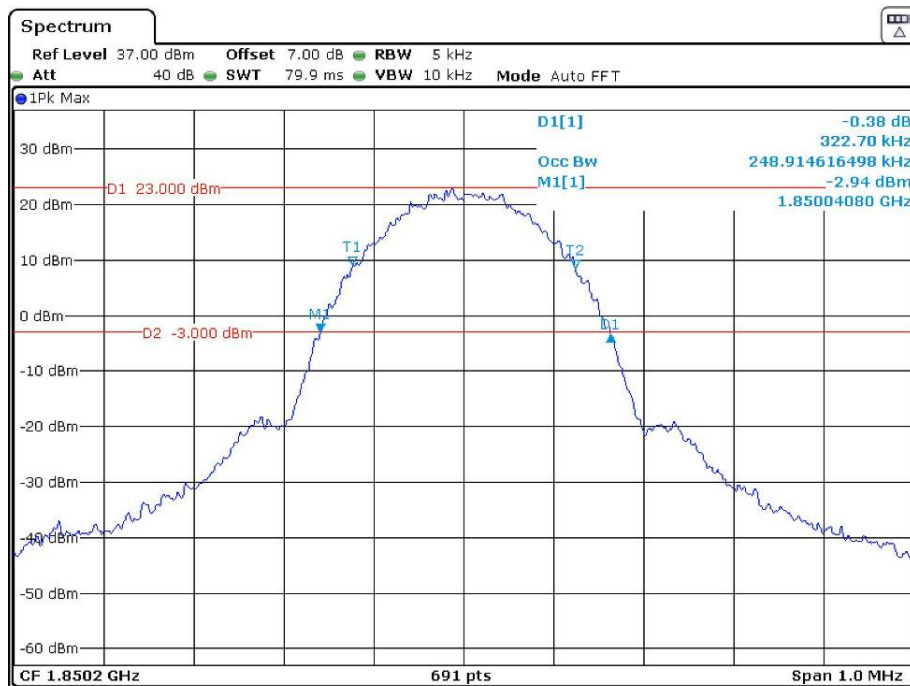
Date: 19.FEB.2021 15:22:24

**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel**

Date: 19.FEB.2021 15:24:07

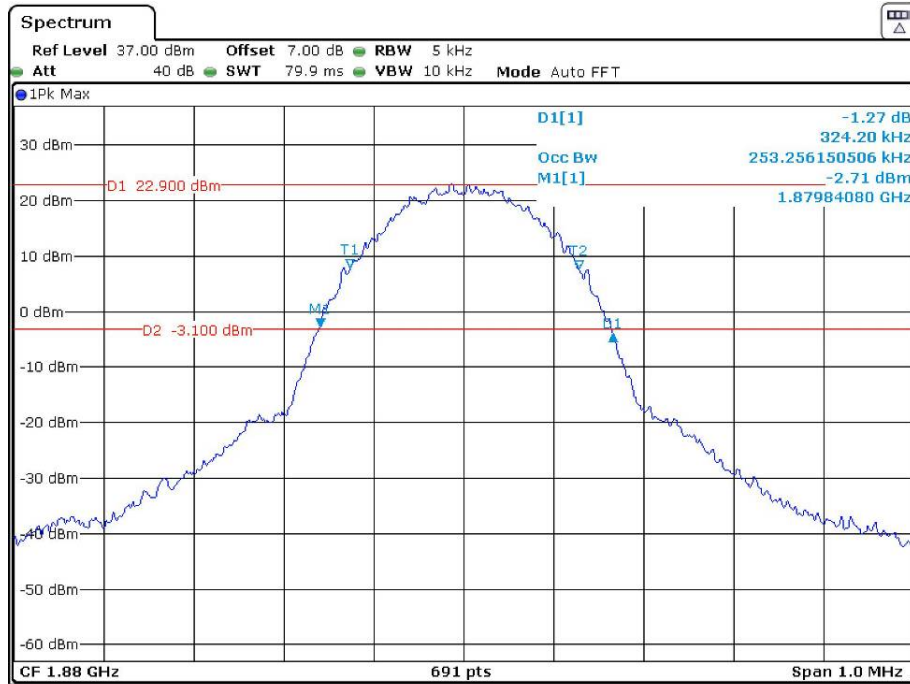
**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel**

Date: 19.FEB.2021 15:26:25

**26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Low channel**

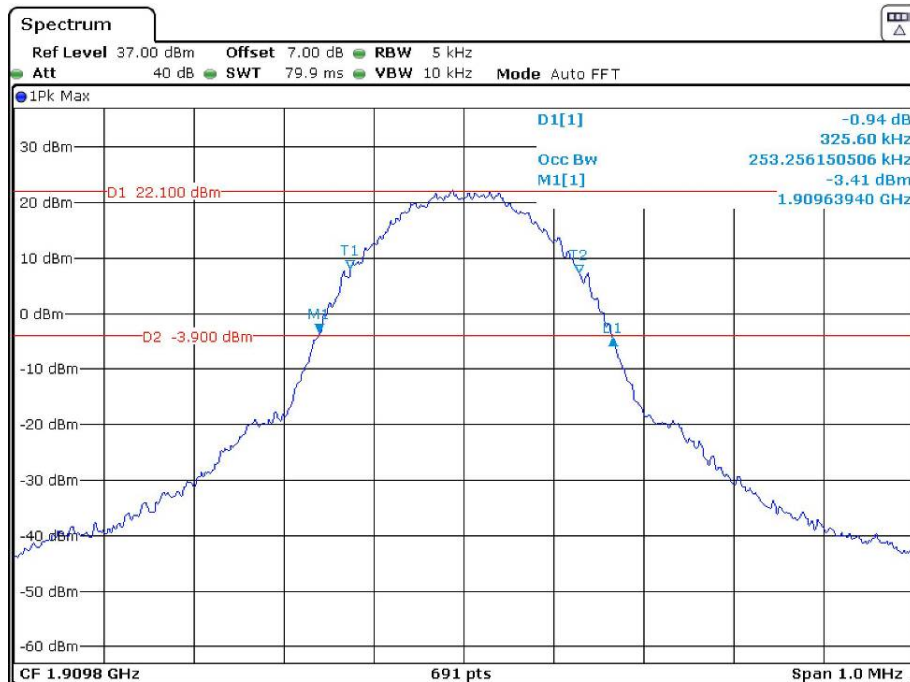
Date: 19.FEB.2021 15:44:10

26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel



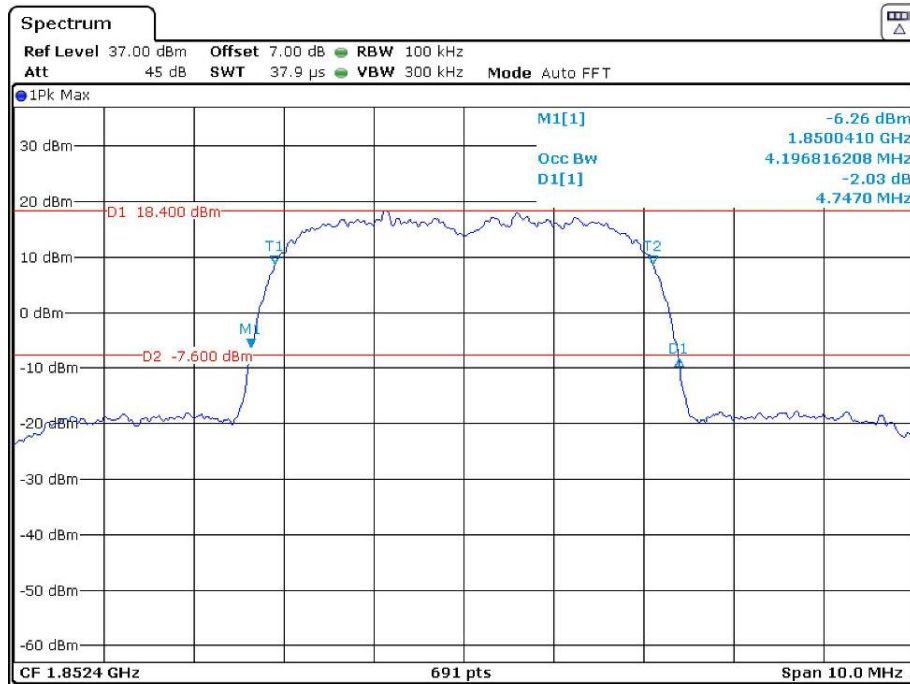
Date: 19.FEB.2021 15:42:24

26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel



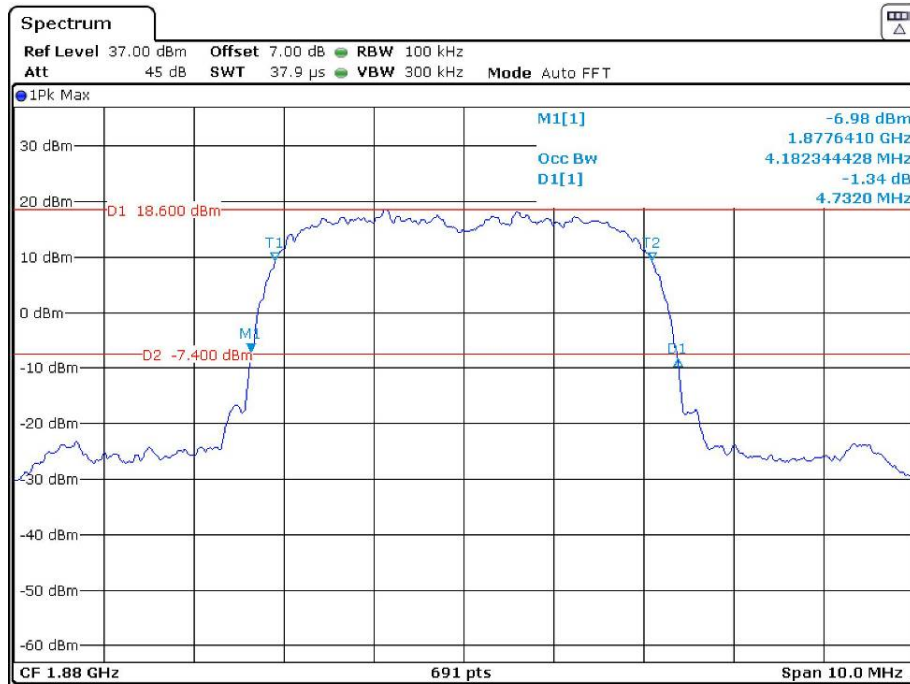
Date: 19.FEB.2021 15:41:26

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

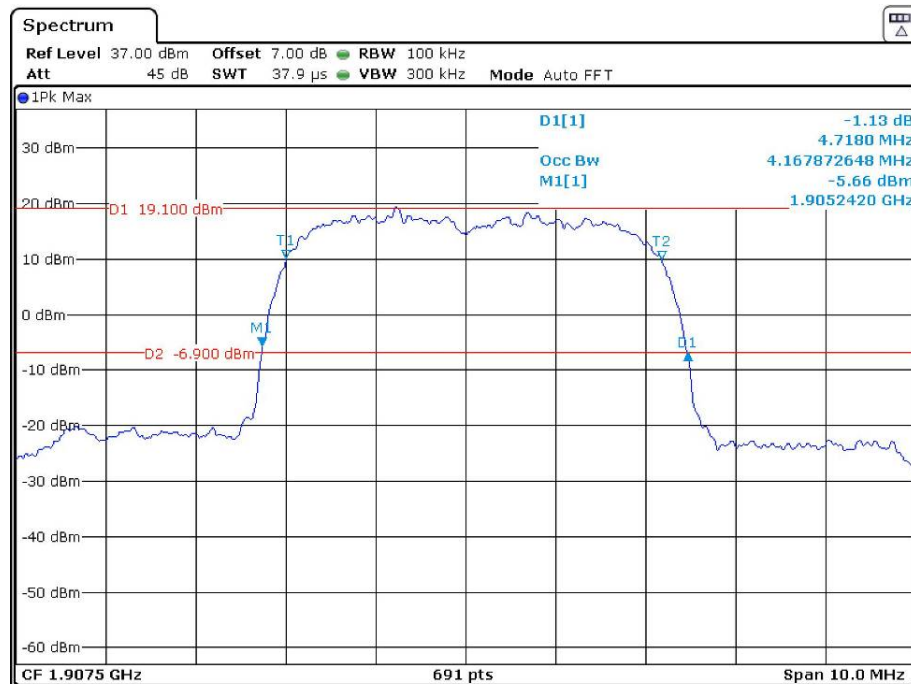


Date: 19.FEB.2021 18:41:21

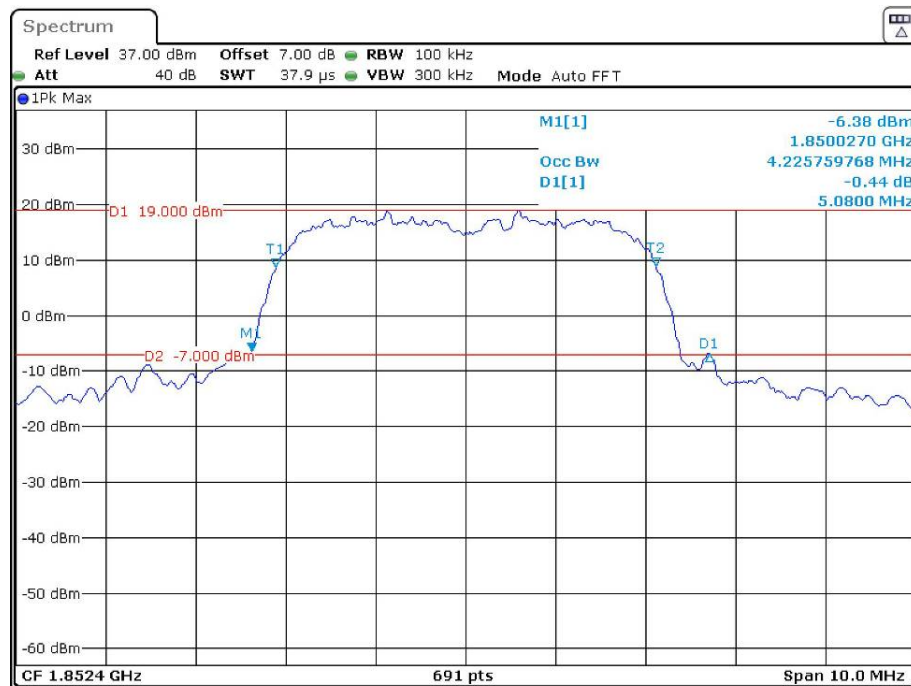
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel



Date: 19.FEB.2021 18:46:14

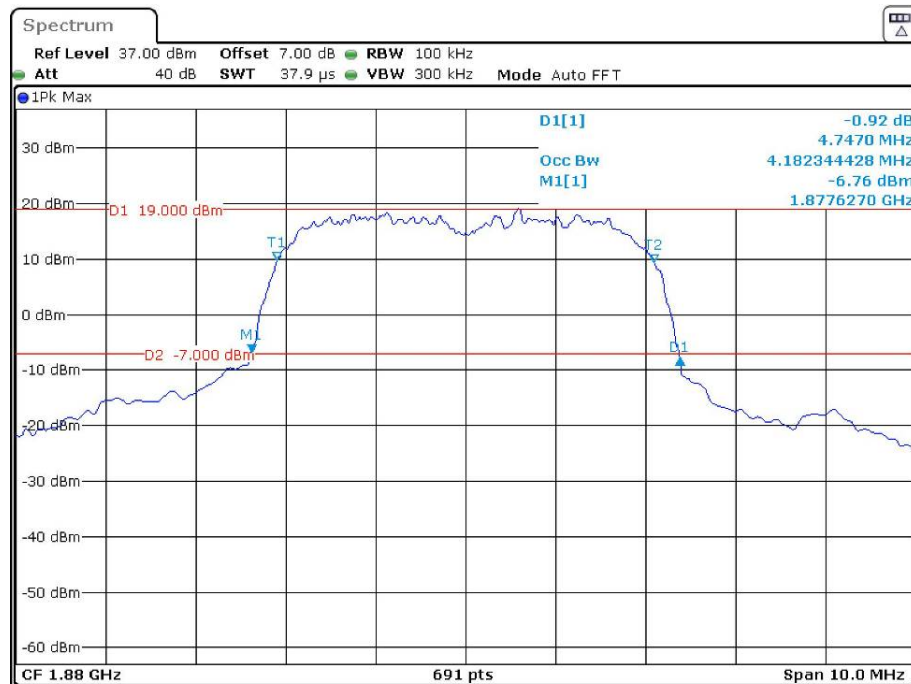
**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel**

Date: 19.FEB.2021 18:49:19

**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel**

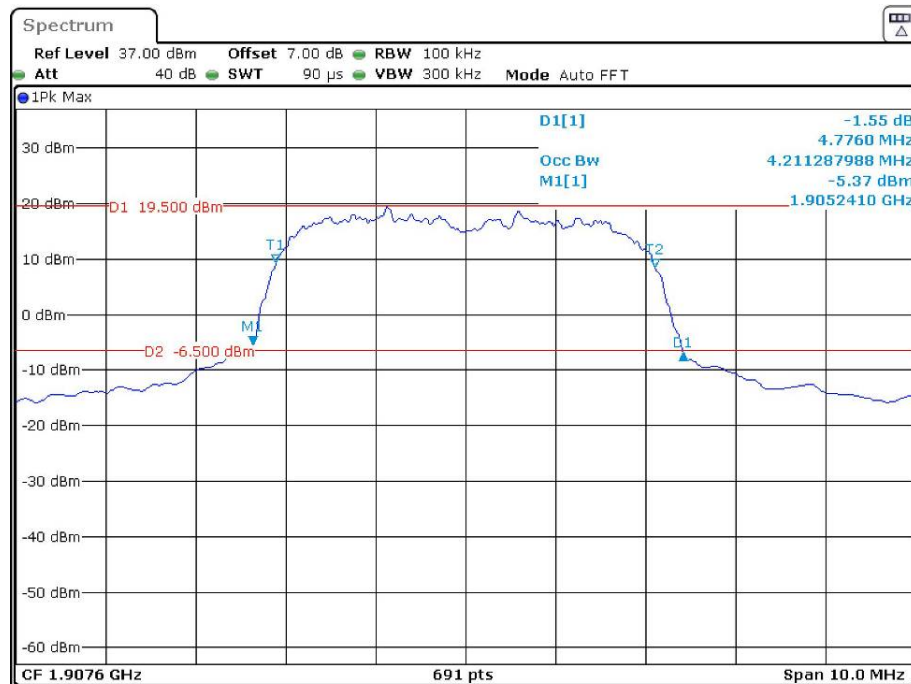
Date: 19.FEB.2021 19:34:34

### 26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Middle channel

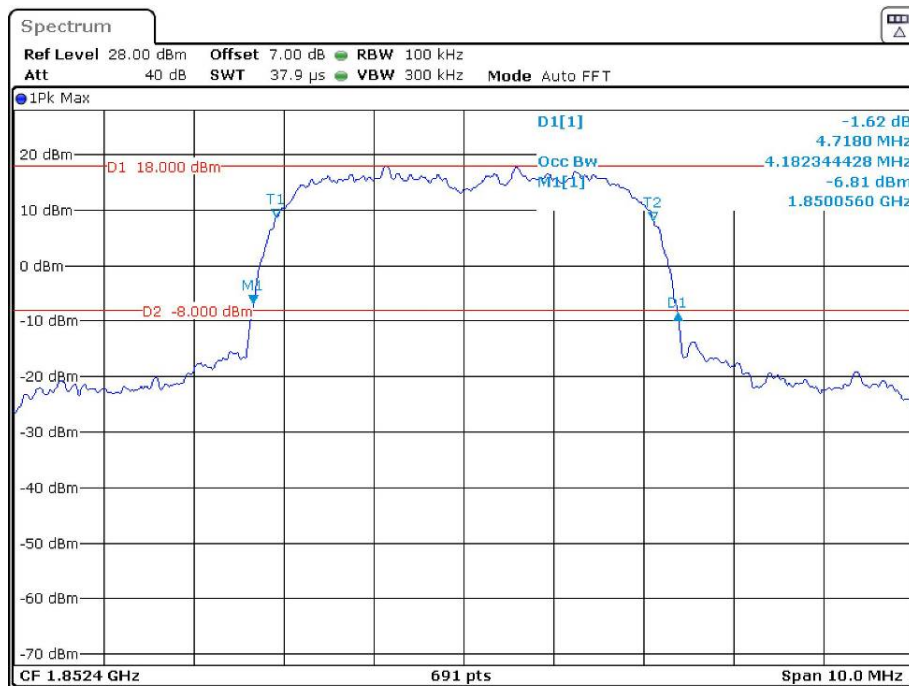


Date: 19.FEB.2021 19:31:31

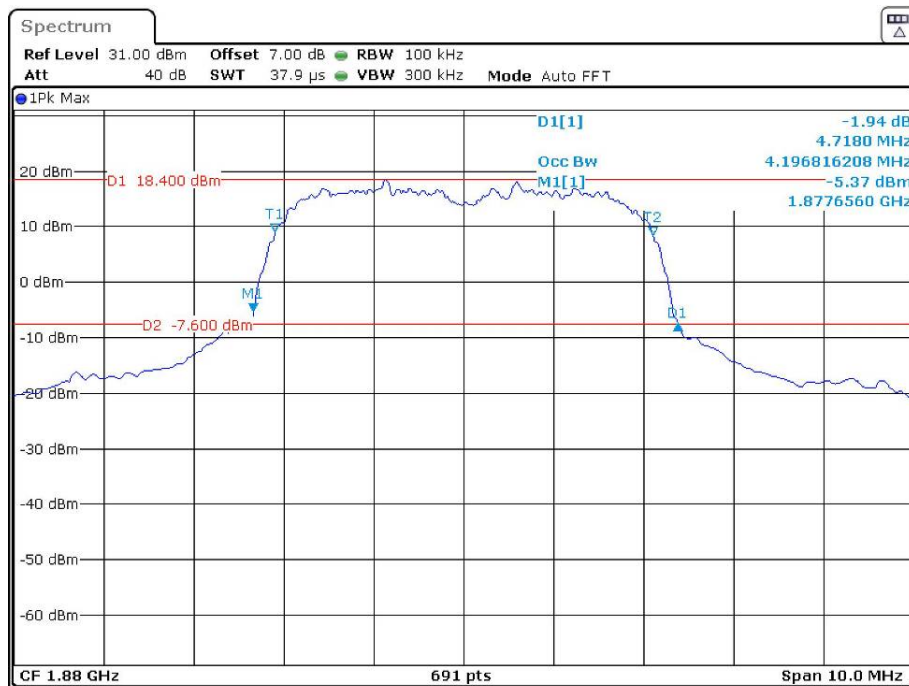
### 26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, High channel



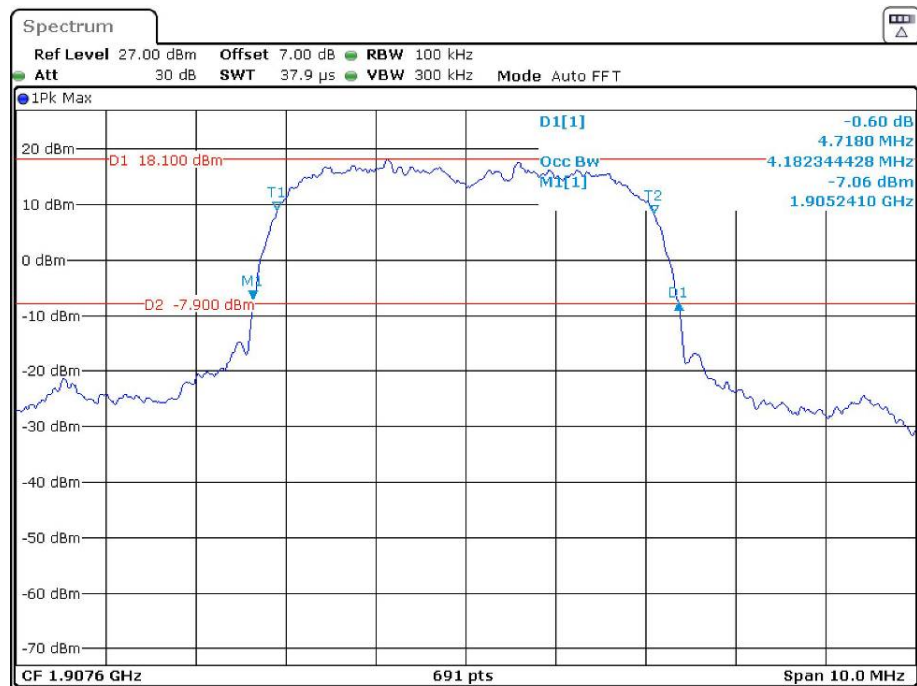
Date: 19.FEB.2021 19:27:19

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel**

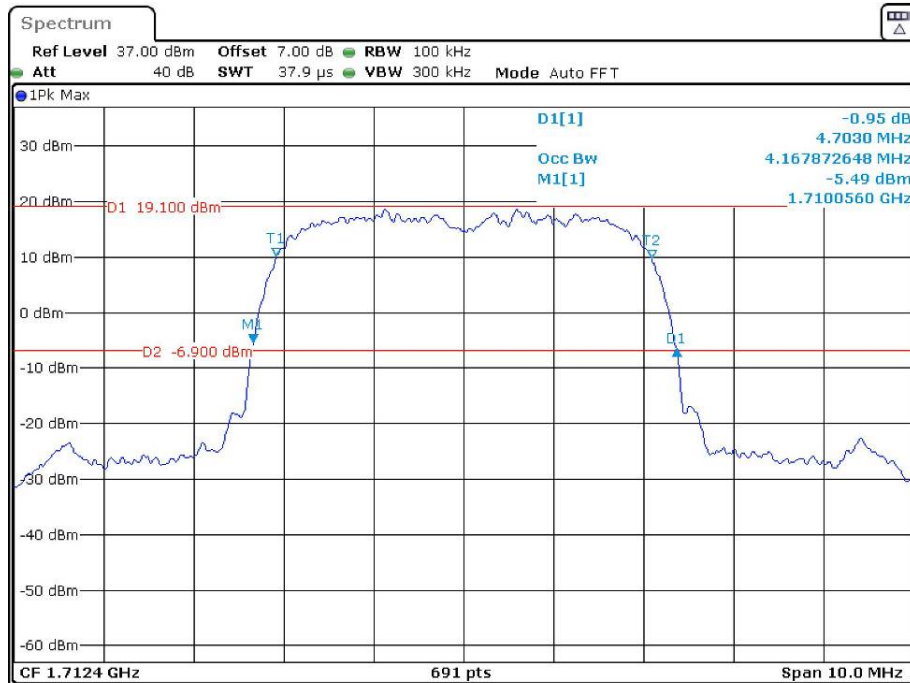
Date: 19.FEB.2021 19:07:33

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Middle channel**

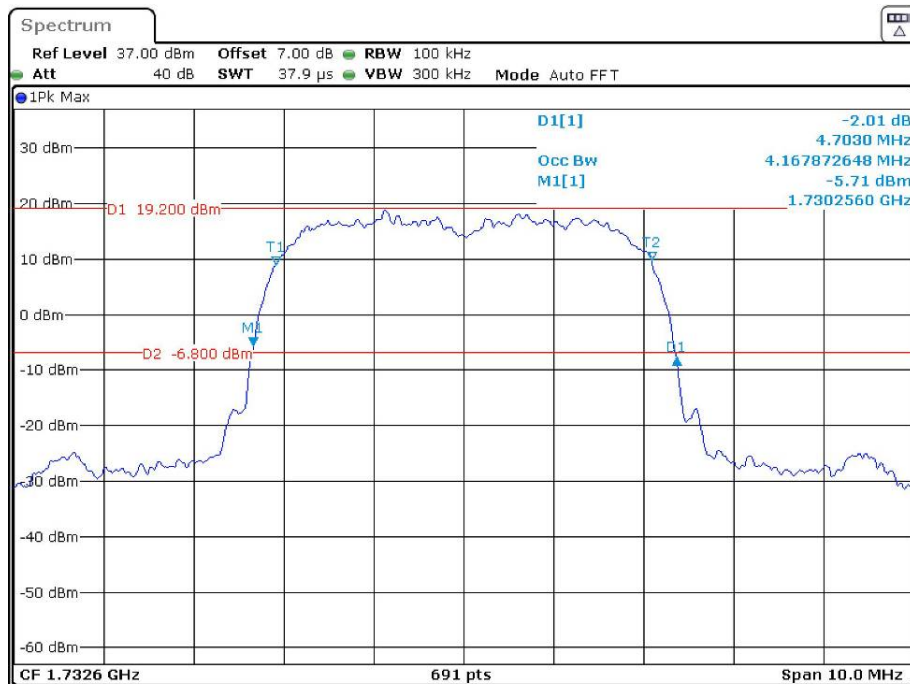
Date: 19.FEB.2021 19:04:34

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, High channel**

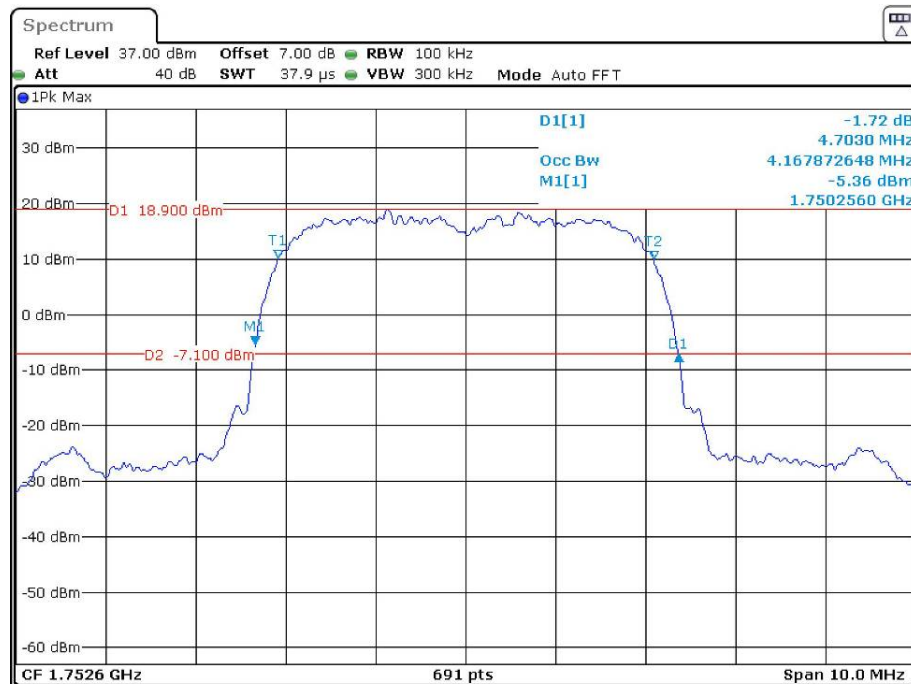
Date: 19.FEB.2021 18:59:44

**AWS Band (Part 27)****26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel**

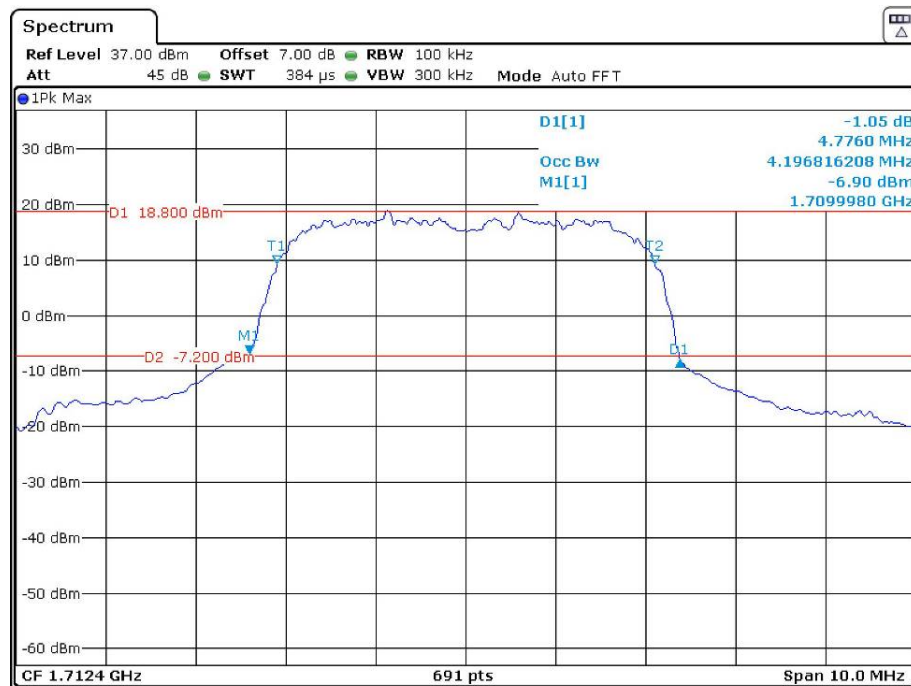
Date: 19.FEB.2021 19:42:53

**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel**

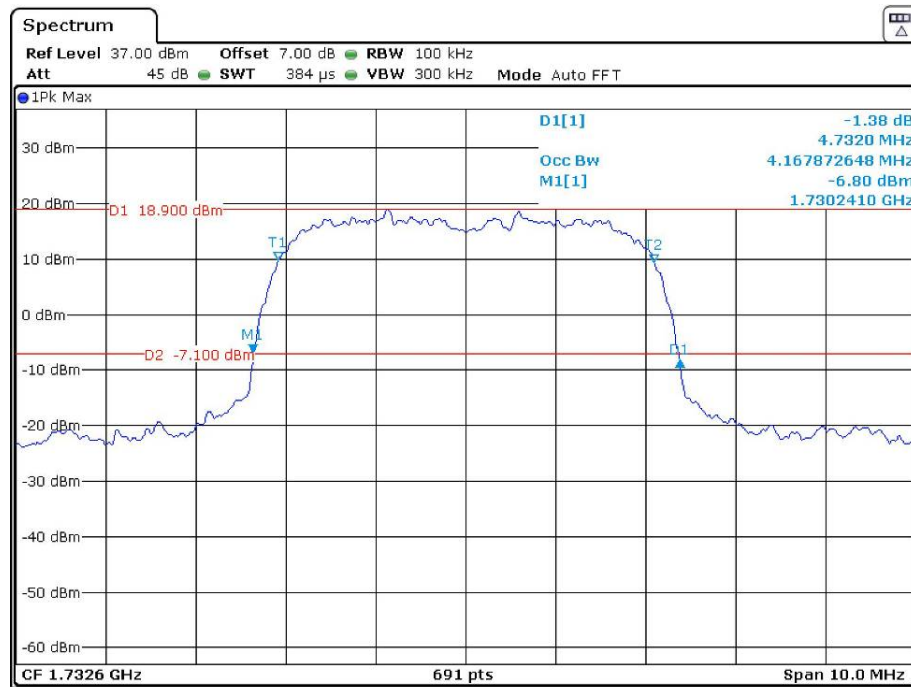
Date: 19.FEB.2021 19:41:29

**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel**

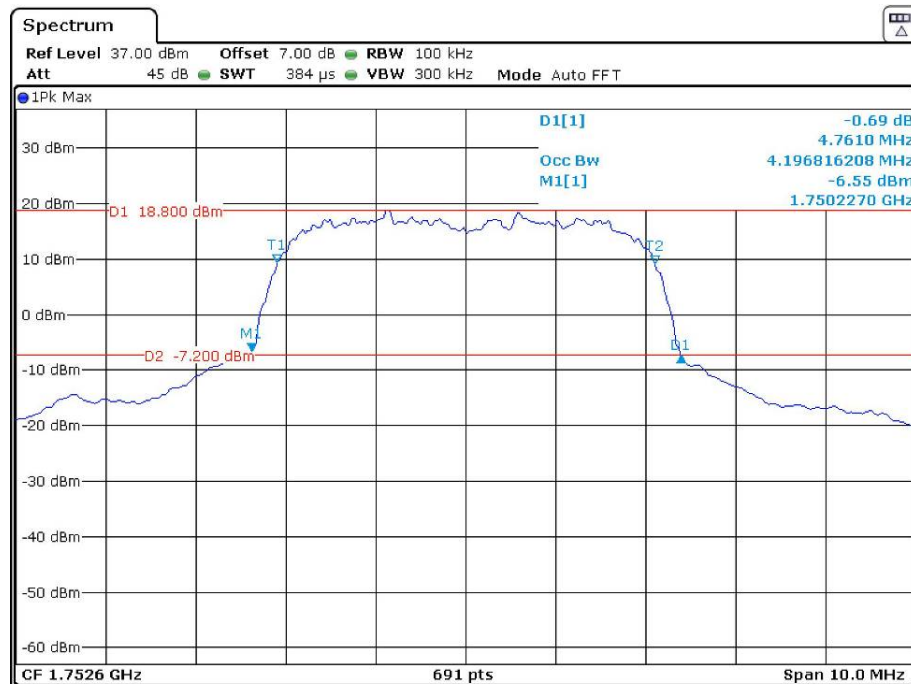
Date: 19.FEB.2021 19:40:09

**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel**

Date: 20.FEB.2021 13:37:58

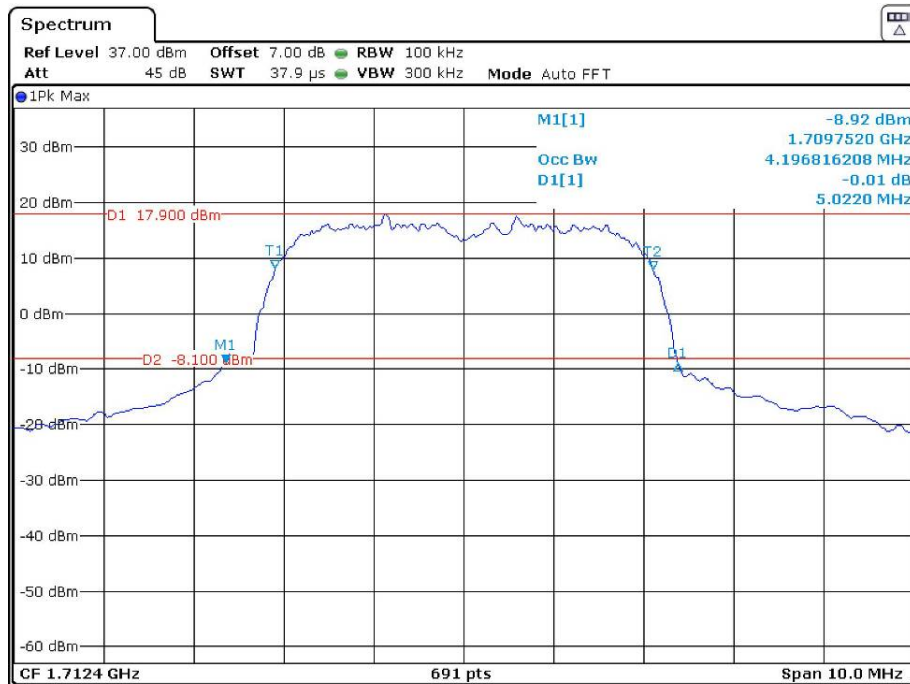
**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Middle channel**

Date: 20.FEB.2021 13:39:58

**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, High channel**

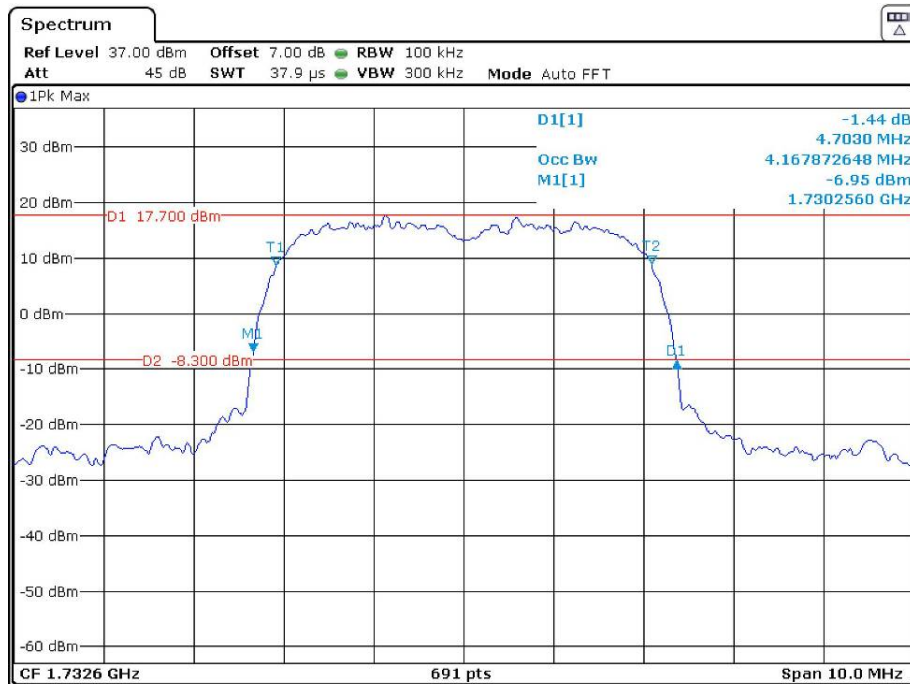
Date: 20.FEB.2021 13:42:48

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel

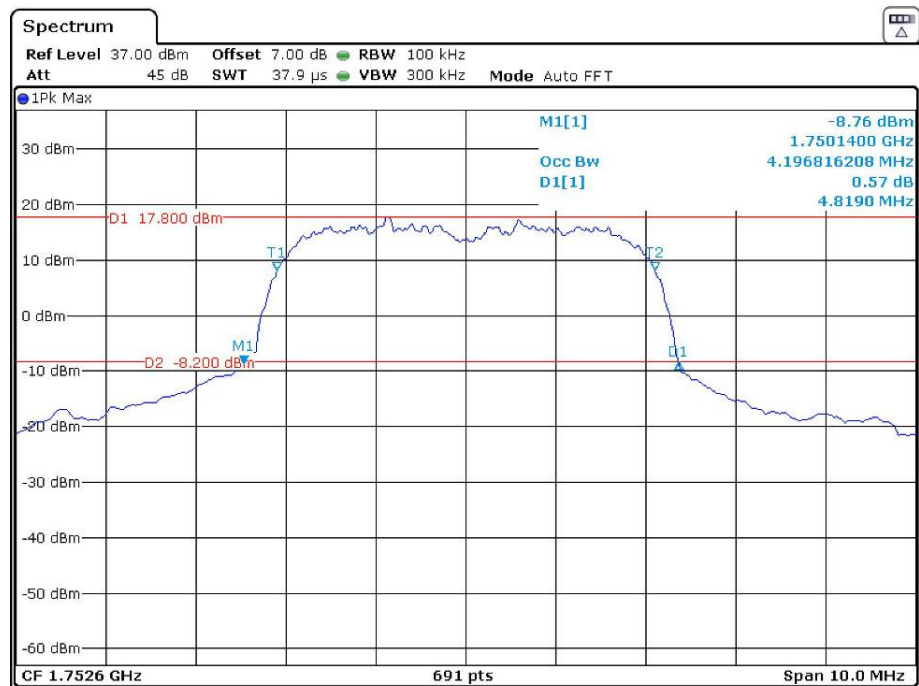


Date: 20.FEB.2021 13:54:06

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Middle channel



Date: 20.FEB.2021 13:52:30

**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, High channel**

Date: 20.FEB.2021 13:50:44

**LTE Band 2:**

| Bandwidth (MHz) | Modulation | Channel | 99% Occupied Bandwidth (MHz) | 26 dB Emission Bandwidth (MHz) |
|-----------------|------------|---------|------------------------------|--------------------------------|
| 1.4             | QPSK       | Low     | 1.102                        | 1.293                          |
|                 |            | Middle  | 1.096                        | 1.320                          |
|                 |            | High    | 1.102                        | 1.290                          |
|                 | 16QAM      | Low     | 1.096                        | 1.320                          |
|                 |            | Middle  | 1.090                        | 1.284                          |
|                 |            | High    | 1.096                        | 1.290                          |
| 3               | QPSK       | Low     | 2.683                        | 2.868                          |
|                 |            | Middle  | 2.683                        | 2.880                          |
|                 |            | High    | 2.683                        | 2.892                          |
|                 | 16QAM      | Low     | 2.683                        | 2.880                          |
|                 |            | Middle  | 2.683                        | 2.880                          |
|                 |            | High    | 2.683                        | 2.868                          |
| 5               | QPSK       | Low     | 4.511                        | 4.940                          |
|                 |            | Middle  | 4.511                        | 4.960                          |
|                 |            | High    | 4.511                        | 4.940                          |
|                 | 16QAM      | Low     | 4.491                        | 4.940                          |
|                 |            | Middle  | 4.511                        | 4.960                          |
|                 |            | High    | 4.491                        | 4.960                          |
| 10              | QPSK       | Low     | 8.942                        | 9.680                          |
|                 |            | Middle  | 8.942                        | 9.600                          |
|                 |            | High    | 8.942                        | 9.600                          |
|                 | 16QAM      | Low     | 8.942                        | 9.560                          |
|                 |            | Middle  | 8.942                        | 9.640                          |
|                 |            | High    | 8.942                        | 9.600                          |
| 15              | QPSK       | Low     | 13.473                       | 14.700                         |
|                 |            | Middle  | 13.473                       | 14.520                         |
|                 |            | High    | 13.473                       | 14.580                         |
|                 | 16QAM      | Low     | 13.473                       | 14.640                         |
|                 |            | Middle  | 13.533                       | 14.640                         |
|                 |            | High    | 13.473                       | 14.520                         |
| 20              | QPSK       | Low     | 17.884                       | 19.200                         |
|                 |            | Middle  | 17.964                       | 19.360                         |
|                 |            | High    | 17.884                       | 19.280                         |
|                 | 16QAM      | Low     | 17.964                       | 19.200                         |
|                 |            | Middle  | 17.964                       | 19.360                         |
|                 |            | High    | 17.884                       | 19.280                         |