

# **FCC REPORT**

## **(LTE)**

**Applicant:** TECNO MOBILE LIMITED

**Address of Applicant:** ROOM 604 6/F SOUTH TOWER WORLD FINANCE CTR  
HARBOUR CITY 17 CANTON ROAD TST KL

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: BC1s

Trade mark: TECNO

**FCC ID:** 2ADYY-BC1S

**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 22 Subpart H  
FCC CFR Title 47 Part 24 Subpart E  
FCC CFR Title 47 Part 27 Subpart L  
FCC CFR Title 47 Part 27 Subpart M

**Date of sample receipt:** 21 Sep., 2020

**Date of Test:** 21 Sep., to 19 Oct., 2020

**Date of report issued:** 23 Oct., 2020

**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2. Version

| Version No. | Date          | Description                                               |
|-------------|---------------|-----------------------------------------------------------|
| 00          | 20 Oct., 2020 | Original                                                  |
| 01          | 23 Oct., 2020 | Updated test data on P.37<br>Update chapter 6.2 test data |
|             |               |                                                           |
|             |               |                                                           |
|             |               |                                                           |

Tested by:

YT Yang

Test Engineer

Date:

23 Oct., 2020

Reviewed by:

Winner Zhang

Project Engineer

Date:

23 Oct., 2020

### 3. Contents

Page

|      |                                                               |     |
|------|---------------------------------------------------------------|-----|
| 1.   | COVER PAGE.....                                               | 1   |
| 2.   | VERSION.....                                                  | 2   |
| 3.   | CONTENTS.....                                                 | 3   |
| 4.   | TEST SUMMARY.....                                             | 4   |
| 5.   | GENERAL INFORMATION.....                                      | 5   |
| 5.1  | CLIENT INFORMATION.....                                       | 5   |
| 5.2  | GENERAL DESCRIPTION OF E.U.T.....                             | 5   |
| 5.3  | TEST ENVIRONMENT AND MODE, AND TEST SAMPLES PLANS .....       | 12  |
| 5.4  | DESCRIPTION OF SUPPORT UNITS.....                             | 12  |
| 5.5  | MEASUREMENT UNCERTAINTY.....                                  | 12  |
| 5.6  | RELATED SUBMITTAL(S) / GRANT (S) .....                        | 12  |
| 5.7  | ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD ..... | 12  |
| 5.8  | LABORATORY FACILITY .....                                     | 13  |
| 5.9  | LABORATORY LOCATION .....                                     | 13  |
| 5.10 | TEST INSTRUMENTS LIST .....                                   | 13  |
| 6.   | TEST RESULTS.....                                             | 14  |
| 6.1  | CONDUCTED OUTPUT POWER, ERP AND EIRP .....                    | 14  |
| 6.2  | PEAK-TO-AVERAGE RATIO .....                                   | 29  |
| 6.3  | OCCUPY BANDWIDTH .....                                        | 33  |
| 6.4  | OUT OF BAND EMISSION AT ANTENNA TERMINALS .....               | 96  |
| 6.5  | FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT.....         | 145 |
| 6.6  | FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT .....        | 159 |
| 6.7  | FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT .....            | 166 |
| 7    | TEST SETUP PHOTO.....                                         | 169 |
| 8    | EUT CONSTRUCTIONAL DETAILS .....                              | 170 |

## 4. Test Summary

| Test Items                                                                                                                                                                                                                                                                                                  | Section in CFR 47                                                                              | Result                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------|
| RF Exposure (SAR)                                                                                                                                                                                                                                                                                           | Part 1.1307<br>Part 2.1093                                                                     | Passed<br>(Please refer to SAR Report) |
| RF Output Power                                                                                                                                                                                                                                                                                             | Part 2.1046<br>Part 22.913 (a)(5)<br>Part 24.232 (c)<br>Part 27.50 (d)(4)<br>Part 27.50 (h)(2) | Pass                                   |
| Peak-to-Average Ratio                                                                                                                                                                                                                                                                                       | Part 24.232 (d)<br>Part 27.50(d)(5)                                                            | Pass                                   |
| Modulation Characteristics                                                                                                                                                                                                                                                                                  | Part 2.1047                                                                                    | Pass                                   |
| 99% & -26 dB Occupied Bandwidth                                                                                                                                                                                                                                                                             | Part 2.1049<br>Part 22.917(b)<br>Part 24.238(b)<br>Part 27.53(h)<br>Part 27.53(m)              | Pass                                   |
| Out of band emission at antenna terminals                                                                                                                                                                                                                                                                   | Part 2.1053<br>Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (h)<br>Part 27.53(m)            | Pass                                   |
| Field strength of spurious radiation                                                                                                                                                                                                                                                                        | Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (h)<br>Part 27.53(m)                           | Pass                                   |
| Frequency stability vs. temperature                                                                                                                                                                                                                                                                         | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(a)(1)(b)                               | Pass                                   |
| Frequency stability vs. voltage                                                                                                                                                                                                                                                                             | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(d)(2)                                  | Pass                                   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer). |                                                                                                |                                        |
| <b>Test Method:</b>                                                                                                                                                                                                                                                                                         | ANSI/TIA-603-E-2016<br>ANSI C63.26-2015                                                        |                                        |

## 5. General Information

### 5.1 Client Information

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Applicant:             | TECNO MOBILE LIMITED                                                                                                  |
| Address:               | ROOM 604 6/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON ROAD TST KL                                         |
| Manufacturer/ Factory: | SHENZHEN TECNO TECHNOLOGY CO., LTD.                                                                                   |
| Address:               | 101,Building 24,Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China |

### 5.2 General Description of E.U.T.

|                            |                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Product Name:              | Mobile Phone                                                                                                                                                                                                                                                                                                                         |                                           |                                           |
| Model No.:                 | BC1s                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |
| Operation Frequency range: | LTE Band 2: TX: 1850MHz-1910MHz RX: 1930MHz-1990MHz<br>LTE Band 4: TX: 1710MHz-1755MHz RX: 2110MHz-2155MHz<br>LTE Band 5: TX: 824MHz-849MHz RX: 869MHz-894MHz<br>LTE Band 7: TX: 2500MHz-2570MHz RX: 2620MHz-2690MHz<br>LTE Band 38: TX: 2570MHz-2620MHz RX: 2570MHz-2620MHz<br>LTE Band 41: TX: 2535MHz-2655MHz RX: 2535MHz-2655MHz |                                           |                                           |
| Modulation type:           | <input checked="" type="checkbox"/> QPSK                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> 16QAM | <input checked="" type="checkbox"/> 64QAM |
| Antenna type:              | Internal Antenna                                                                                                                                                                                                                                                                                                                     |                                           |                                           |
| Antenna gain:              | LTE Band 2: -2.0 dBi(declare by Applicant)<br>LTE Band 4: -2.0 dBi(declare by Applicant)<br>LTE Band 5: -6.5 dBi(declare by Applicant)<br>LTE Band 7: -1.0 dBi(declare by Applicant)<br>LTE Band 38: -1.0 dBi(declare by Applicant)<br>LTE Band 41: -1.0 dBi(declare by Applicant)                                                   |                                           |                                           |
| Power supply:              | Rechargeable Li-ion Battery DC3.85V, 5000mAh                                                                                                                                                                                                                                                                                         |                                           |                                           |
| AC adapter:                | Model: A8-501000<br>Input: AC100-240V, 50/60Hz, 0.2A<br>Output: DC 5.0V, 1000mA                                                                                                                                                                                                                                                      |                                           |                                           |
| Test Sample Condition:     | The applicant provided engineering samples for staying in continuously transmitting for testing.                                                                                                                                                                                                                                     |                                           |                                           |

## Operation Frequency List:

| LTE Band 2 (1.4MHz) |                 | LTE Band 2 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18607               | 1850.70         | 18615              | 1851.50         |
| 18608               | 1850.80         | 18616              | 1851.60         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19193               | 1909.20         | 19185              | 1908.40         |
| 19194               | 1909.30         | 19186              | 1908.50         |
| LTE Band 2 (5MHz)   |                 | LTE Band 2 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18625               | 1852.50         | 18650              | 1855.00         |
| 18626               | 1852.60         | 18651              | 1855.10         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19175               | 1907.40         | 19150              | 1904.90         |
| 19176               | 1907.50         | 19151              | 1905.00         |
| LTE Band 2 (15MHz)  |                 | LTE Band 2 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 18675               | 1857.50         | 18700              | 1860.00         |
| 18676               | 1857.60         | 18701              | 1860.10         |
| ....                | ....            | ....               | ....            |
| 18899               | 1879.90         | 18899              | 1879.90         |
| 18900               | 1880.00         | 18900              | 1880.00         |
| 18901               | 1880.10         | 18901              | 1880.10         |
| ...                 | ...             | ...                | ...             |
| 19125               | 1902.40         | 19100              | 1899.90         |
| 19126               | 1902.50         | 19101              | 1900.00         |

| LTE Band 4 (1.4MHz) |                 | LTE Band 4 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 19957               | 1710.70         | 19965              | 1711.50         |
| 19958               | 1710.80         | 19966              | 1711.60         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20392               | 1754.20         | 20384              | 1753.40         |
| 20393               | 1754.30         | 20385              | 1753.50         |
| LTE Band 4 (5MHz)   |                 | LTE Band 4 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 19975               | 1712.50         | 20000              | 1715.00         |
| 19976               | 1712.60         | 20001              | 1715.10         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20374               | 1752.40         | 20349              | 1749.90         |
| 20375               | 1752.50         | 20350              | 1750.00         |
| LTE Band 4 (15MHz)  |                 | LTE Band 4 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20025               | 1717.50         | 20050              | 1720.00         |
| 20026               | 1717.60         | 20051              | 1720.10         |
| ....                | ....            | ....               | ....            |
| 20174               | 1732.40         | 20174              | 1732.40         |
| 20175               | 1732.50         | 20175              | 1732.50         |
| 20176               | 1732.60         | 20176              | 1732.60         |
| ...                 | ...             | ...                | ...             |
| 20324               | 1747.40         | 20299              | 1744.90         |
| 20325               | 1747.50         | 20300              | 1745.00         |

| LTE Band 5 (1.4MHz) |                 | LTE Band 5 (3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20407               | 824.70          | 20415              | 825.50          |
| 20408               | 824.80          | 20416              | 825.60          |
| ....                | ....            | ....               | ....            |
| 20524               | 836.40          | 20524              | 836.40          |
| 20525               | 836.50          | 20525              | 836.50          |
| 20526               | 836.60          | 20526              | 836.60          |
| ...                 | ...             | ...                | ...             |
| 20642               | 848.20          | 20634              | 847.40          |
| 20643               | 848.30          | 20635              | 847.50          |
| LTE Band 5 (5MHz)   |                 | LTE Band 5 (10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20425               | 826.50          | 20450              | 829.00          |
| 20426               | 826.60          | 20451              | 829.10          |
| ....                | ....            | ....               | ....            |
| 20524               | 836.40          | 20524              | 836.40          |
| 20525               | 836.50          | 20525              | 836.50          |
| 20526               | 836.60          | 20526              | 836.60          |
| ...                 | ...             | ...                | ...             |
| 20624               | 846.40          | 20599              | 839.90          |
| 20625               | 846.50          | 20600              | 844.00          |

| LTE Band 7 (5MHz)  |                 | LTE Band 7 (10MHz) |                 |
|--------------------|-----------------|--------------------|-----------------|
| Channel            | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20775              | 2502.50         | 20800              | 2505.00         |
| 20776              | 2502.60         | 20801              | 2502.10         |
| ....               | ....            | ....               | ....            |
| 21099              | 2534.90         | 21099              | 2534.90         |
| 21100              | 2535.00         | 21100              | 2535.00         |
| 21101              | 2535.20         | 21101              | 2535.20         |
| ...                | ...             | ...                | ...             |
| 21424              | 2567.40         | 21399              | 2564.90         |
| 21425              | 2567.50         | 21400              | 2565.00         |
| LTE Band 7 (15MHz) |                 | LTE Band 7 (20MHz) |                 |
| Channel            | Frequency (MHz) | Channel            | Frequency (MHz) |
| 20825              | 2507.50         | 20850              | 2510.00         |
| 20826              | 2507.60         | 20851              | 2510.10         |
| ....               | ....            | ....               | ....            |
| 21099              | 2534.90         | 21099              | 2534.90         |
| 21100              | 2535.00         | 21100              | 2535.00         |
| 21101              | 2535.20         | 21101              | 2535.20         |
| ...                | ...             | ...                | ...             |
| 21374              | 2562.40         | 21349              | 2559.90         |
| 21375              | 2562.50         | 21350              | 2560.00         |

| LTE Band 38 (5MHz)  |                 | LTE Band 38 (10MHz) |                 |
|---------------------|-----------------|---------------------|-----------------|
| Channel             | Frequency (MHz) | Channel             | Frequency (MHz) |
| 37775               | 2572.50         | 37800               | 2575.00         |
| 37776               | 2572.60         | 37801               | 2575.10         |
| ....                | ....            | ....                | ....            |
| 37999               | 2594.90         | 37999               | 2594.90         |
| 38000               | 2595.00         | 38000               | 2595.00         |
| 38001               | 2595.10         | 38001               | 2595.10         |
| ...                 | ...             | ...                 | ...             |
| 38224               | 2617.40         | 38199               | 2614.90         |
| 38225               | 2617.50         | 38200               | 2615.00         |
| LTE Band 38 (15MHz) |                 | LTE Band 38 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel             | Frequency (MHz) |
| 37825               | 2577.50         | 37850               | 2580.00         |
| 37826               | 2577.60         | 37851               | 2580.10         |
| ....                | ....            | ....                | ....            |
| 37999               | 2594.90         | 37999               | 2594.90         |
| 38000               | 2595.00         | 38000               | 2595.00         |
| 38001               | 2595.10         | 38001               | 2595.10         |
| ...                 | ...             | ...                 | ...             |
| 38174               | 2612.40         | 38149               | 2609.90         |
| 38175               | 2612.50         | 38150               | 2610.00         |

| LTE Band 41 (5MHz)  |                 | LTE Band 41 (10MHz) |                 |
|---------------------|-----------------|---------------------|-----------------|
| Channel             | Frequency (MHz) | Channel             | Frequency (MHz) |
| 40065               | 2537.50         | 40090               | 2540.00         |
| 40066               | 2537.60         | 40091               | 2540.10         |
| ....                | ....            | ....                | ....            |
| 40639               | 2594.90         | 40639               | 2594.90         |
| 40640               | 2595.00         | 40640               | 2595.00         |
| 40641               | 2595.10         | 40641               | 2595.10         |
| ...                 | ...             | ...                 | ...             |
| 41214               | 2652.40         | 41189               | 2649.90         |
| 41215               | 2652.50         | 41190               | 2650.00         |
| LTE Band 41 (15MHz) |                 | LTE Band 41 (20MHz) |                 |
| Channel             | Frequency (MHz) | Channel             | Frequency (MHz) |
| 40115               | 2542.50         | 40140               | 2545.00         |
| 40116               | 2542.60         | 40141               | 2545.10         |
| ....                | ....            | ....                | ....            |
| 40639               | 2594.90         | 40639               | 2594.90         |
| 40640               | 2595.00         | 40640               | 2595.00         |
| 40641               | 2595.10         | 40641               | 2595.10         |
| ...                 | ...             | ...                 | ...             |
| 41164               | 2647.40         | 41139               | 2644.90         |
| 41165               | 2647.50         | 41140               | 2645.00         |

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

| LTE Band 2 (1.4MHz) |       |                 | LTE Band 2 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18607 | 1850.70         | Lowest channel     | 18615 | 1851.50         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19193 | 1909.30         | Highest channel    | 19185 | 1908.50         |
| LTE Band 2 (5MHz)   |       |                 | LTE Band 2 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18625 | 1852.50         | Lowest channel     | 18650 | 1855.00         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19175 | 1907.50         | Highest channel    | 19150 | 1905.00         |
| LTE Band 2 (15MHz)  |       |                 | LTE Band 2 (20MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 18675 | 1857.50         | Lowest channel     | 18700 | 1860.00         |
| Middle channel      | 18900 | 1880.00         | Middle channel     | 18900 | 1880.00         |
| Highest channel     | 19125 | 1902.50         | Highest channel    | 19100 | 1900.00         |

| LTE Band 4 (1.4MHz) |       |                 | LTE Band 4 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel:            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 19957 | 1710.70         | Lowest channel     | 19965 | 1711.50         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20393 | 1754.30         | Highest channel    | 20385 | 1753.50         |
| LTE Band 4 (5MHz)   |       |                 | LTE Band 4 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 19975 | 1712.50         | Lowest channel     | 20000 | 1715.00         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20375 | 1752.50         | Highest channel    | 20350 | 1750.00         |
| LTE Band 4 (15MHz)  |       |                 | LTE Band 4 (20MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20025 | 1717.50         | Lowest channel     | 20050 | 1720.00         |
| Middle channel      | 20175 | 1732.50         | Middle channel     | 20175 | 1732.50         |
| Highest channel     | 20325 | 1747.50         | Highest channel    | 20300 | 1745.00         |

| LTE Band 5 (1.4MHz) |       |                 | LTE Band 5 (3MHz)  |       |                 |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel:            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20407 | 824.70          | Lowest channel     | 20415 | 825.50          |
| Middle channel      | 20525 | 836.50          | Middle channel     | 20525 | 836.50          |
| Highest channel     | 20643 | 848.30          | Highest channel    | 20635 | 847.50          |
| LTE Band 5 (5MHz)   |       |                 | LTE Band 5 (10MHz) |       |                 |
| Channel             |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel      | 20425 | 826.50          | Lowest channel     | 20450 | 829.00          |
| Middle channel      | 20525 | 836.50          | Middle channel     | 20525 | 836.50          |
| Highest channel     | 20625 | 846.50          | Highest channel    | 20600 | 844.00          |

| LTE Band 7 (5MHz)  |       |                 | LTE Band 7 (10MHz) |       |                 |
|--------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel     | 20775 | 2502.50         | Lowest channel     | 20800 | 2505.00         |
| Middle channel     | 21100 | 2535.00         | Middle channel     | 21100 | 2535.00         |
| Highest channel    | 21425 | 2567.50         | Highest channel    | 21400 | 2565.00         |
| LTE Band 7 (15MHz) |       |                 | LTE Band 7 (20MHz) |       |                 |
| Channel            |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel     | 20825 | 2507.50         | Lowest channel     | 20850 | 2510.00         |
| Middle channel     | 21100 | 2535.00         | Middle channel     | 21100 | 2535.00         |
| Highest channel    | 21375 | 2562.50         | Highest channel    | 21350 | 2560.00         |

| LTE Band 38 (5MHz) |       |                 | LTE Band 38 (10MHz) |       |                 |
|--------------------|-------|-----------------|---------------------|-------|-----------------|
| Channel            |       | Frequency (MHz) | Channel             |       | Frequency (MHz) |
| Lowest channel     | 37775 | 2574.50         | Lowest channel      | 37800 | 2575.00         |
| Middle channel     | 38000 | 2595.00         | Middle channel      | 38000 | 2595.00         |
| Highest channel    | 38225 | 2617.50         | Highest channel     | 38200 | 2615.00         |
| LTE Band 38(15MHz) |       |                 | LTE Band 38(20MHz)  |       |                 |
| Channel            |       | Frequency (MHz) | Channel             |       | Frequency (MHz) |
| Lowest channel     | 37825 | 2577.50         | Lowest channel      | 37850 | 2580.00         |
| Middle channel     | 38000 | 2595.00         | Middle channel      | 38000 | 2595.00         |
| Highest channel    | 38175 | 2612.50         | Highest channel     | 38150 | 2610.00         |

| LTE Band 41 (5MHz) |       |                 | LTE Band 41 (10MHz) |       |                 |
|--------------------|-------|-----------------|---------------------|-------|-----------------|
| Channel            |       | Frequency (MHz) | Channel             |       | Frequency (MHz) |
| Lowest channel     | 40065 | 2537.50         | Lowest channel      | 40090 | 2540.00         |
| Middle channel     | 40640 | 2595.00         | Middle channel      | 40640 | 2595.00         |
| Highest channel    | 41215 | 2652.50         | Highest channel     | 41190 | 2650.00         |
| LTE Band 41(15MHz) |       |                 | LTE Band 41(20MHz)  |       |                 |
| Channel            |       | Frequency (MHz) | Channel             |       | Frequency (MHz) |
| Lowest channel     | 40115 | 2542.50         | Lowest channel      | 40140 | 2545.00         |
| Middle channel     | 40640 | 2595.00         | Middle channel      | 40640 | 2595.00         |
| Highest channel    | 41165 | 2647.50         | Highest channel     | 41140 | 2645.00         |

### 5.3 Test environment and mode, and test samples plans

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                           |                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                     | Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C                      |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                        | 20 % ~ 75 % RH                                                   |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                            | 1008 mbar                                                        |
| Voltage:                                                                                                                                                                                                                                                                                                                                                                         | Nominal: 3.85Vdc, Extreme: Low 3.50Vdc, High 4.40Vdc             |
| Test mode:                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |
| LTE QPSK mode                                                                                                                                                                                                                                                                                                                                                                    | Keep the EUT communication with simulated station in QPSK mode   |
| LTE 16-QAM mode                                                                                                                                                                                                                                                                                                                                                                  | Keep the EUT communication with simulated station in 16-QAM mode |
| Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. |                                                                  |

### 5.4 Description of Support Units

| Test Equipment    | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|------------|
| Simulated Station | Anritsu      | MT8820C   | 6201026545 |

### 5.5 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.16 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.20 dB (k=2)       |

### 5.6 Related Submittal(s) / Grant (s)

|                                                              |
|--------------------------------------------------------------|
| This is an original grant, no related submittals and grants. |
|--------------------------------------------------------------|

### 5.7 Additions to, deviations, or exclusions from the method

|    |
|----|
| No |
|----|

## 5.8 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

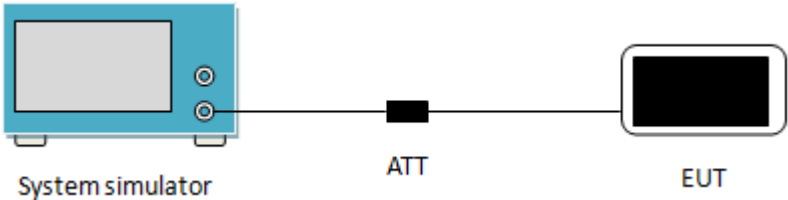
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.10 Test Instruments list

| Test Equipment               | Manufacturer    | Model No.     | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|------------------------------|-----------------|---------------|--------------------|----------------------|--------------------------|
| 3m SAC                       | SAEMC           | 9m*6m*6m      | 966                | 07-22-2020           | 07-21-2021               |
| BiConiLog Antenna            | SCHWARZBECK     | VULB9163      | 497                | 03-07-2020           | 03-06-2021               |
| Biconical Antenna            | SCHWARZBECK     | VUBA9117      | 359                | 06-22-2020           | 06-21-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 916                | 03-07-2020           | 03-06-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 1805               | 06-22-2020           | 06-21-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-18-2019           | 11-17-2020               |
| EMI Test Software            | AUDIX           | E3            | Version: 6.110919b |                      |                          |
| Pre-amplifier                | HP              | 8447D         | 2944A09358         | 03-07-2020           | 03-06-2021               |
| Pre-amplifier                | CD              | PAP-1G18      | 11804              | 03-07-2020           | 03-06-2021               |
| Spectrum analyzer            | Rohde & Schwarz | FSP30         | 101454             | 03-05-2020           | 03-04-2021               |
| Spectrum analyzer            | Rohde & Schwarz | FSP40         | 100363             | 11-18-2019           | 11-17-2020               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-05-2020           | 03-04-2021               |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-18-2019           | 11-17-2020               |
| Signal Generator             | Rohde & Schwarz | SMX           | 835454/016         | 03-05-2020           | 03-04-2021               |
| Signal Generator             | R&S             | SMR20         | 1008100050         | 03-05-2020           | 03-04-2021               |
| RF Switch Unit               | MWRFTTEST       | MW200         | N/A                | N/A                  | N/A                      |
| Test Software                | MWRFTTEST       | MTS8200       | Version: 2.0.0.0   |                      |                          |
| Cable                        | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-07-2020           | 03-06-2021               |
| Cable                        | MICRO-COAX      | MFR64639      | K10742-5           | 03-07-2020           | 03-06-2021               |
| Cable                        | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-07-2020           | 03-06-2021               |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 09-25-2019           | 09-24-2020               |
|                              |                 |               |                    | 09-25-2020           | 09-24-2021               |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 11-01-2019           | 11-31-2020               |
| Simulated Station            | Rohde & Schwarz | CMW500        | 140493             | 07-22-2020           | 07-21-2021               |

## 6. Test results

### 6.1 Conducted Output Power, ERP and EIRP

|                   |                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.913(a)(5), Part 24.232(c), Part 27.50(d)(4), Part 27.50 (h)(2)                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 7: 2W, LTE Band 38: 2W, LTE Band 41: 2W                                                                                                                                                                                                                                                                                                             |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left is a blue rectangular box labeled 'System simulator'. A line connects its right side to a small black rectangle labeled 'ATT' (attenuator). Another line connects the right side of the 'ATT' to a black rectangular box labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.                                                                                                                                                                                                                                           |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                            |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                       |

Measurement Data:

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18607               | 18900     | 19193     |  |
|                                                              |                 |                     |         |           | 1850.7MHz           | 1880.0MHz | 1909.3MHz |  |
| 2                                                            | 1.4             | QPSK                | 1       | 0         | 22.11               | 21.98     | 21.50     |  |
|                                                              |                 |                     | 1       | 2         | 22.40               | 22.17     | 21.66     |  |
|                                                              |                 |                     | 1       | 5         | 22.14               | 21.98     | 21.51     |  |
|                                                              |                 |                     | 3       | 0         | 22.18               | 22.06     | 21.50     |  |
|                                                              |                 |                     | 3       | 1         | 22.13               | 22.03     | 21.47     |  |
|                                                              |                 |                     | 3       | 2         | 21.13               | 21.09     | 20.56     |  |
|                                                              |                 |                     | 6       | 0         | 21.11               | 21.05     | 20.52     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.40     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.10               | 21.24     | 20.35     |  |
|                                                              |                 |                     | 1       | 2         | 21.39               | 21.40     | 20.52     |  |
|                                                              |                 |                     | 1       | 5         | 21.14               | 21.25     | 20.36     |  |
|                                                              |                 |                     | 3       | 0         | 21.38               | 21.15     | 20.51     |  |
|                                                              |                 |                     | 3       | 1         | 21.40               | 21.18     | 20.53     |  |
|                                                              |                 |                     | 3       | 2         | 20.17               | 20.04     | 19.45     |  |
|                                                              |                 |                     | 6       | 0         | 20.15               | 20.02     | 19.52     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.40     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18615               | 18900     | 19185     |  |
|                                                              |                 |                     |         |           | 1851.5MHz           | 1880.0MHz | 1908.5MHz |  |
| 2                                                            | 3               | QPSK                | 1       | 0         | 22.13               | 22.14     | 21.53     |  |
|                                                              |                 |                     | 1       | 7         | 22.16               | 22.17     | 21.50     |  |
|                                                              |                 |                     | 1       | 14        | 22.17               | 22.16     | 21.46     |  |
|                                                              |                 |                     | 8       | 0         | 21.20               | 21.13     | 20.63     |  |
|                                                              |                 |                     | 8       | 4         | 21.25               | 21.15     | 20.60     |  |
|                                                              |                 |                     | 8       | 7         | 21.24               | 21.15     | 20.57     |  |
|                                                              |                 |                     | 15      | 0         | 21.22               | 21.13     | 20.55     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.17     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.39               | 21.01     | 20.84     |  |
|                                                              |                 |                     | 1       | 7         | 21.41               | 21.05     | 20.78     |  |
|                                                              |                 |                     | 1       | 14        | 21.37               | 21.03     | 20.77     |  |
|                                                              |                 |                     | 8       | 0         | 20.20               | 20.15     | 19.60     |  |
|                                                              |                 |                     | 8       | 4         | 20.21               | 20.15     | 19.58     |  |
|                                                              |                 |                     | 8       | 7         | 20.11               | 20.15     | 19.54     |  |
|                                                              |                 |                     | 15      | 0         | 20.08               | 20.12     | 19.52     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.41     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18625               | 18900     | 19175     |  |
|                                                              |                 |                     |         |           | 1852.5MHz           | 1880.0MHz | 1907.5MHz |  |
| 2                                                            | 5               | QPSK                | 1       | 0         | 22.05               | 21.99     | 21.44     |  |
|                                                              |                 |                     | 1       | 12        | 22.18               | 22.11     | 21.55     |  |
|                                                              |                 |                     | 1       | 24        | 22.09               | 22.00     | 21.32     |  |
|                                                              |                 |                     | 12      | 0         | 21.18               | 21.16     | 20.64     |  |
|                                                              |                 |                     | 12      | 6         | 21.27               | 21.12     | 20.50     |  |
|                                                              |                 |                     | 12      | 11        | 21.24               | 21.16     | 20.57     |  |
|                                                              |                 |                     | 25      | 0         | 21.22               | 21.14     | 20.55     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.18     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.39               | 21.22     | 20.71     |  |
|                                                              |                 |                     | 1       | 12        | 21.55               | 21.37     | 20.79     |  |
|                                                              |                 |                     | 1       | 24        | 21.41               | 21.22     | 20.65     |  |
|                                                              |                 |                     | 12      | 0         | 20.21               | 20.11     | 19.65     |  |
|                                                              |                 |                     | 12      | 6         | 20.25               | 20.09     | 19.56     |  |
|                                                              |                 |                     | 12      | 11        | 20.30               | 20.11     | 19.60     |  |
|                                                              |                 |                     | 25      | 0         | 20.28               | 20.10     | 19.58     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.55     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18650               | 18900     | 19150     |  |
|                                                              |                 |                     |         |           | 1855.0MHz           | 1880.0MHz | 1905.0MHz |  |
| 2                                                            | 10              | QPSK                | 1       | 0         | 22.13               | 22.07     | 21.56     |  |
|                                                              |                 |                     | 1       | 24        | 22.36               | 22.35     | 21.78     |  |
|                                                              |                 |                     | 1       | 49        | 22.09               | 22.13     | 21.46     |  |
|                                                              |                 |                     | 25      | 0         | 21.28               | 21.15     | 20.73     |  |
|                                                              |                 |                     | 25      | 12        | 21.36               | 21.16     | 20.62     |  |
|                                                              |                 |                     | 25      | 24        | 21.27               | 21.14     | 20.71     |  |
|                                                              |                 |                     | 50      | 0         | 21.25               | 21.12     | 20.69     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.36     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.38               | 20.95     | 20.86     |  |
|                                                              |                 |                     | 1       | 24        | 21.50               | 21.23     | 21.01     |  |
|                                                              |                 |                     | 1       | 49        | 21.28               | 21.05     | 20.74     |  |
|                                                              |                 |                     | 25      | 0         | 20.27               | 20.12     | 19.74     |  |
|                                                              |                 |                     | 25      | 12        | 20.38               | 20.14     | 19.65     |  |
|                                                              |                 |                     | 25      | 24        | 20.36               | 20.12     | 19.68     |  |
|                                                              |                 |                     | 50      | 0         | 20.34               | 20.10     | 19.63     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.50     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18675               | 18900     | 19125     |  |
|                                                              |                 |                     |         |           | 1857.5MHz           | 1880.0MHz | 1902.5MHz |  |
| 2                                                            | 15              | QPSK                | 1       | 0         | 22.04               | 21.92     | 21.56     |  |
|                                                              |                 |                     | 1       | 37        | 22.08               | 22.11     | 21.70     |  |
|                                                              |                 |                     | 1       | 74        | 21.90               | 22.02     | 21.49     |  |
|                                                              |                 |                     | 36      | 0         | 21.25               | 21.15     | 20.78     |  |
|                                                              |                 |                     | 36      | 16        | 21.24               | 21.16     | 20.69     |  |
|                                                              |                 |                     | 36      | 35        | 21.30               | 21.20     | 20.76     |  |
|                                                              |                 |                     | 75      | 0         | 21.28               | 21.18     | 20.74     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.11     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.40               | 21.14     | 20.59     |  |
|                                                              |                 |                     | 1       | 37        | 21.44               | 21.30     | 20.66     |  |
|                                                              |                 |                     | 1       | 74        | 21.25               | 21.23     | 20.43     |  |
|                                                              |                 |                     | 36      | 0         | 20.27               | 20.16     | 19.66     |  |
|                                                              |                 |                     | 36      | 16        | 20.22               | 20.15     | 19.60     |  |
|                                                              |                 |                     | 36      | 35        | 20.20               | 20.14     | 19.69     |  |
|                                                              |                 |                     | 75      | 0         | 20.18               | 20.12     | 19.62     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.44     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18700               | 18900     | 19100     |  |
|                                                              |                 |                     |         |           | 1860.0MHz           | 1880.0MHz | 1900.0MHz |  |
| 2                                                            | 20              | QPSK                | 1       | 0         | 21.96               | 21.80     | 21.33     |  |
|                                                              |                 |                     | 1       | 49        | 22.31               | 22.20     | 21.71     |  |
|                                                              |                 |                     | 1       | 99        | 21.86               | 21.91     | 21.22     |  |
|                                                              |                 |                     | 50      | 0         | 21.15               | 21.15     | 20.73     |  |
|                                                              |                 |                     | 50      | 24        | 21.18               | 21.17     | 20.56     |  |
|                                                              |                 |                     | 50      | 49        | 21.18               | 21.20     | 20.63     |  |
|                                                              |                 |                     | 100     | 0         | 21.16               | 21.18     | 20.60     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.31     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 20.85               | 20.61     | 20.60     |  |
|                                                              |                 |                     | 1       | 49        | 21.11               | 21.04     | 20.91     |  |
|                                                              |                 |                     | 1       | 99        | 20.68               | 20.75     | 20.42     |  |
|                                                              |                 |                     | 50      | 0         | 20.13               | 20.19     | 19.72     |  |
|                                                              |                 |                     | 50      | 24        | 20.14               | 20.20     | 19.53     |  |
|                                                              |                 |                     | 50      | 49        | 20.12               | 20.18     | 19.65     |  |
|                                                              |                 |                     | 100     | 0         | 20.11               | 20.16     | 19.45     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.11     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 19957               | 20175     | 20393     |  |
|                                                              |                 |                     |         |           | 1710.7MHz           | 1732.5MHz | 1754.3MHz |  |
| 4                                                            | 1.4             | QPSK                | 1       | 0         | 21.98               | 22.03     | 21.89     |  |
|                                                              |                 |                     | 1       | 2         | 22.18               | 22.25     | 22.03     |  |
|                                                              |                 |                     | 1       | 5         | 22.04               | 22.01     | 21.89     |  |
|                                                              |                 |                     | 3       | 0         | 22.04               | 22.04     | 21.96     |  |
|                                                              |                 |                     | 3       | 1         | 22.00               | 22.04     | 21.97     |  |
|                                                              |                 |                     | 3       | 2         | 22.02               | 22.03     | 21.95     |  |
|                                                              |                 |                     | 6       | 0         | 21.03               | 21.04     | 21.05     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.25     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 20.87               | 21.01     | 21.11     |  |
|                                                              |                 |                     | 1       | 2         | 21.07               | 21.24     | 21.29     |  |
|                                                              |                 |                     | 1       | 5         | 20.91               | 21.01     | 21.11     |  |
|                                                              |                 |                     | 3       | 0         | 21.05               | 21.26     | 21.01     |  |
|                                                              |                 |                     | 3       | 1         | 21.04               | 21.30     | 21.04     |  |
|                                                              |                 |                     | 3       | 2         | 21.02               | 21.28     | 21.04     |  |
|                                                              |                 |                     | 6       | 0         | 20.02               | 20.03     | 20.03     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -2.00     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.30     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 19965               | 20175     | 20385     |  |
|                                                              |                 |                     |         |           | 1711.5MHz           | 1732.5MHz | 1753.5MHz |  |
| 4                                                            | 3               | QPSK                | 1       | 0         | 21.98               | 22.06     | 21.97     |  |
|                                                              |                 |                     | 1       | 7         | 21.96               | 22.07     | 21.92     |  |
|                                                              |                 |                     | 1       | 14        | 21.99               | 22.08     | 21.93     |  |
|                                                              |                 |                     | 8       | 0         | 21.05               | 21.06     | 21.03     |  |
|                                                              |                 |                     | 8       | 4         | 21.10               | 21.06     | 21.00     |  |
|                                                              |                 |                     | 8       | 7         | 21.04               | 21.07     | 21.01     |  |
|                                                              |                 |                     | 15      | 0         | 21.02               | 21.05     | 21.03     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.08     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.22               | 20.91     | 21.26     |  |
|                                                              |                 |                     | 1       | 7         | 21.19               | 20.94     | 21.23     |  |
|                                                              |                 |                     | 1       | 14        | 21.20               | 20.98     | 21.24     |  |
|                                                              |                 |                     | 8       | 0         | 20.06               | 20.07     | 19.99     |  |
|                                                              |                 |                     | 8       | 4         | 20.02               | 20.07     | 19.99     |  |
|                                                              |                 |                     | 8       | 7         | 20.01               | 20.03     | 19.96     |  |
|                                                              |                 |                     | 15      | 0         | 20.00               | 20.02     | 19.93     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -2.00     |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.26     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 19975               | 20175     | 20375     |  |
|                                                              |                 |                     |         |           | 1712.5MHz           | 1732.5MHz | 1752.5MHz |  |
| 4                                                            | 5               | QPSK                | 1       | 0         | 21.87               | 21.92     | 21.93     |  |
|                                                              |                 |                     | 1       | 12        | 21.96               | 22.03     | 22.02     |  |
|                                                              |                 |                     | 1       | 24        | 21.86               | 21.91     | 21.93     |  |
|                                                              |                 |                     | 12      | 0         | 21.02               | 21.03     | 21.05     |  |
|                                                              |                 |                     | 12      | 6         | 21.00               | 20.99     | 21.01     |  |
|                                                              |                 |                     | 12      | 11        | 21.01               | 21.06     | 21.04     |  |
|                                                              |                 |                     | 25      | 0         | 21.00               | 21.05     | 21.03     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.03     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.17               | 21.24     | 21.13     |  |
|                                                              |                 |                     | 1       | 12        | 21.29               | 21.34     | 21.20     |  |
|                                                              |                 |                     | 1       | 24        | 21.20               | 21.24     | 21.13     |  |
|                                                              |                 |                     | 12      | 0         | 20.06               | 20.06     | 20.00     |  |
|                                                              |                 |                     | 12      | 6         | 20.09               | 20.02     | 19.92     |  |
|                                                              |                 |                     | 12      | 11        | 20.04               | 20.09     | 20.00     |  |
|                                                              |                 |                     | 25      | 0         | 20.02               | 20.07     | 20.01     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.34     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20000               | 20175     | 20350     |  |
|                                                              |                 |                     |         |           | 1715.0MHz           | 1732.5MHz | 1750.0MHz |  |
| 4                                                            | 10              | QPSK                | 1       | 0         | 21.95               | 22.08     | 21.90     |  |
|                                                              |                 |                     | 1       | 24        | 22.08               | 22.17     | 22.01     |  |
|                                                              |                 |                     | 1       | 49        | 21.98               | 22.06     | 21.92     |  |
|                                                              |                 |                     | 25      | 0         | 21.01               | 21.05     | 21.08     |  |
|                                                              |                 |                     | 25      | 12        | 21.05               | 21.02     | 20.99     |  |
|                                                              |                 |                     | 25      | 24        | 21.05               | 21.06     | 21.05     |  |
|                                                              |                 |                     | 50      | 0         | 21.04               | 21.02     | 21.04     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.17     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.19               | 20.90     | 21.17     |  |
|                                                              |                 |                     | 1       | 24        | 21.30               | 21.11     | 21.31     |  |
|                                                              |                 |                     | 1       | 49        | 21.21               | 20.92     | 21.19     |  |
|                                                              |                 |                     | 25      | 0         | 20.02               | 20.03     | 20.13     |  |
|                                                              |                 |                     | 25      | 12        | 20.10               | 20.03     | 20.01     |  |
|                                                              |                 |                     | 25      | 24        | 20.08               | 20.02     | 20.02     |  |
|                                                              |                 |                     | 50      | 0         | 20.05               | 20.01     | 20.00     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.31     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20025               | 20175     | 20325     |  |
|                                                              |                 |                     |         |           | 1717.5MHz           | 1732.5MHz | 1747.5MHz |  |
| 4                                                            | 15              | QPSK                | 1       | 0         | 21.77               | 22.00     | 22.14     |  |
|                                                              |                 |                     | 1       | 37        | 21.88               | 22.17     | 22.10     |  |
|                                                              |                 |                     | 1       | 74        | 21.83               | 22.06     | 21.77     |  |
|                                                              |                 |                     | 36      | 0         | 21.00               | 21.23     | 21.30     |  |
|                                                              |                 |                     | 36      | 16        | 21.05               | 21.28     | 21.03     |  |
|                                                              |                 |                     | 36      | 35        | 21.07               | 21.32     | 21.21     |  |
|                                                              |                 |                     | 75      | 0         | 21.05               | 21.30     | 21.19     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.17     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.12               | 21.19     | 21.15     |  |
|                                                              |                 |                     | 1       | 37        | 21.22               | 21.42     | 21.09     |  |
|                                                              |                 |                     | 1       | 74        | 21.17               | 21.22     | 20.75     |  |
|                                                              |                 |                     | 36      | 0         | 20.01               | 20.24     | 20.18     |  |
|                                                              |                 |                     | 36      | 16        | 20.07               | 20.26     | 19.95     |  |
|                                                              |                 |                     | 36      | 35        | 20.04               | 20.24     | 19.97     |  |
|                                                              |                 |                     | 75      | 0         | 20.01               | 20.22     | 19.96     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.42     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20050               | 20175     | 20300     |  |
|                                                              |                 |                     |         |           | 1720.0MHz           | 1732.5MHz | 1745.0MHz |  |
| 4                                                            | 20              | QPSK                | 1       | 0         | 21.72               | 21.76     | 21.91     |  |
|                                                              |                 |                     | 1       | 49        | 22.10               | 22.35     | 22.21     |  |
|                                                              |                 |                     | 1       | 99        | 21.85               | 21.88     | 21.57     |  |
|                                                              |                 |                     | 50      | 0         | 20.94               | 21.21     | 21.27     |  |
|                                                              |                 |                     | 50      | 24        | 21.04               | 21.26     | 20.95     |  |
|                                                              |                 |                     | 50      | 49        | 21.04               | 21.22     | 21.16     |  |
|                                                              |                 |                     | 100     | 0         | 21.03               | 21.20     | 21.14     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.35     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 20.60               | 20.59     | 21.17     |  |
|                                                              |                 |                     | 1       | 49        | 21.04               | 21.14     | 21.46     |  |
|                                                              |                 |                     | 1       | 99        | 20.70               | 20.68     | 20.78     |  |
|                                                              |                 |                     | 50      | 0         | 19.91               | 20.30     | 20.26     |  |
|                                                              |                 |                     | 50      | 24        | 20.02               | 20.29     | 19.96     |  |
|                                                              |                 |                     | 50      | 49        | 20.01               | 20.28     | 19.85     |  |
|                                                              |                 |                     | 100     | 0         | 20.00               | 20.25     | 19.74     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -2.00     |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 19.46     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 30.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |           |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|-----------|
|                                                                                                      |                 |                    |         |           | 20407               | 20525    | 20643     |
|                                                                                                      |                 |                    |         |           | 824.7MHz            | 836.5MHz | 848.3MHz  |
| 5                                                                                                    | 1.4             | QPSK               | 1       | 0         | 22.28               | 22.55    | 22.21     |
|                                                                                                      |                 |                    | 1       | 2         | 22.36               | 22.79    | 22.45     |
|                                                                                                      |                 |                    | 1       | 5         | 22.25               | 22.58    | 22.20     |
|                                                                                                      |                 |                    | 3       | 0         | 22.28               | 22.52    | 22.26     |
|                                                                                                      |                 |                    | 3       | 1         | 22.22               | 22.50    | 22.24     |
|                                                                                                      |                 |                    | 3       | 2         | 22.21               | 22.45    | 22.42     |
|                                                                                                      |                 |                    | 6       | 0         | 21.29               | 21.63    | 21.43     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -6.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 14.14               |          |           |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 38.45               |          |           |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.12               | 21.48    | 21.36     |
|                                                                                                      |                 |                    | 1       | 2         | 21.30               | 21.69    | 21.49     |
|                                                                                                      |                 |                    | 1       | 5         | 21.12               | 21.47    | 21.43     |
|                                                                                                      |                 |                    | 3       | 0         | 21.28               | 21.69    | 21.31     |
|                                                                                                      |                 |                    | 3       | 1         | 21.21               | 21.73    | 21.36     |
|                                                                                                      |                 |                    | 3       | 2         | 21.20               | 21.74    | 21.35     |
|                                                                                                      |                 |                    | 6       | 0         | 20.22               | 20.52    | 20.26     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -6.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 13.09               |          |           |
| ERP Limit (dBm):                                                                                     |                 |                    | 38.45   |           |                     |          |           |
|                                                                                                      |                 |                    |         |           |                     |          |           |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |           |
|                                                                                                      |                 |                    |         |           | 20415               | 20525    | 20635     |
|                                                                                                      |                 |                    |         |           | 825.5MHz            | 836.5MHz | 847.50MHz |
| 5                                                                                                    | 3               | QPSK               | 1       | 0         | 22.17               | 22.58    | 22.31     |
|                                                                                                      |                 |                    | 1       | 7         | 22.18               | 22.59    | 22.19     |
|                                                                                                      |                 |                    | 1       | 14        | 22.24               | 22.60    | 22.23     |
|                                                                                                      |                 |                    | 8       | 0         | 21.25               | 21.55    | 21.37     |
|                                                                                                      |                 |                    | 8       | 4         | 21.30               | 21.60    | 21.34     |
|                                                                                                      |                 |                    | 8       | 7         | 21.27               | 21.53    | 21.34     |
|                                                                                                      |                 |                    | 15      | 0         | 21.25               | 21.52    | 21.31     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -6.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 13.95               |          |           |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 38.45               |          |           |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.41               | 21.36    | 21.58     |
|                                                                                                      |                 |                    | 1       | 7         | 21.40               | 21.38    | 21.54     |
|                                                                                                      |                 |                    | 1       | 14        | 21.46               | 21.40    | 21.48     |
|                                                                                                      |                 |                    | 8       | 0         | 20.19               | 20.50    | 20.31     |
|                                                                                                      |                 |                    | 8       | 4         | 20.25               | 20.50    | 20.27     |
|                                                                                                      |                 |                    | 8       | 7         | 20.09               | 20.48    | 20.24     |
|                                                                                                      |                 |                    | 15      | 0         | 20.06               | 20.44    | 20.22     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -6.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 12.93               |          |           |
| ERP Limit (dBm):                                                                                     |                 |                    | 38.45   |           |                     |          |           |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |           |

| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|--|
|                                                                                                      |                 |                    |         |           | 20425               | 20525    | 20625    |  |
|                                                                                                      |                 |                    |         |           | 826.5MHz            | 836.5MHz | 846.5MHz |  |
| 5                                                                                                    | 5               | QPSK               | 1       | 0         | 22.05               | 22.35    | 22.34    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.23               | 22.50    | 22.36    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.18               | 22.37    | 22.20    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.19               | 21.46    | 21.42    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.34               | 21.53    | 21.34    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.29               | 21.53    | 21.38    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.27               | 21.52    | 21.35    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -6.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 13.85    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.36               | 21.64    | 21.55    |  |
|                                                                                                      |                 |                    | 1       | 12        | 21.51               | 21.75    | 21.50    |  |
|                                                                                                      |                 |                    | 1       | 24        | 21.51               | 21.67    | 21.41    |  |
|                                                                                                      |                 |                    | 12      | 0         | 20.24               | 20.43    | 20.34    |  |
|                                                                                                      |                 |                    | 12      | 6         | 20.38               | 20.49    | 20.20    |  |
|                                                                                                      |                 |                    | 12      | 11        | 20.25               | 20.53    | 20.30    |  |
|                                                                                                      |                 |                    | 25      | 0         | 20.23               | 20.51    | 20.28    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -6.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 13.10    |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 38.45     |                     |          |          |  |
|                                                                                                      |                 |                    |         |           |                     |          |          |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|                                                                                                      |                 |                    |         |           | 20450               | 20525    | 20600    |  |
|                                                                                                      |                 |                    |         |           | 829.0MHz            | 836.5MHz | 844.0MHz |  |
| 5                                                                                                    | 10              | QPSK               | 1       | 0         | 22.22               | 22.32    | 22.37    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.51               | 22.55    | 22.48    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.47               | 22.48    | 22.24    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.33               | 21.49    | 21.55    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.41               | 21.63    | 21.47    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.35               | 21.55    | 21.46    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.32               | 21.52    | 21.44    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -6.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 13.90    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 21.05               | 21.62    | 21.56    |  |
|                                                                                                      |                 |                    | 1       | 24        | 21.40               | 21.86    | 21.70    |  |
|                                                                                                      |                 |                    | 1       | 49        | 21.35               | 21.74    | 21.44    |  |
|                                                                                                      |                 |                    | 25      | 0         | 20.29               | 20.52    | 20.48    |  |
|                                                                                                      |                 |                    | 25      | 12        | 20.42               | 20.64    | 20.41    |  |
|                                                                                                      |                 |                    | 25      | 24        | 20.40               | 20.63    | 20.46    |  |
|                                                                                                      |                 |                    | 50      | 0         | 20.38               | 20.62    | 20.40    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -6.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 13.21    |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 38.45     |                     |          |          |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |          |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20775               | 21100     | 21425     |  |
|                                                              |                 |                     |         |           | 2502.5MHz           | 2535.0MHz | 2567.5MHz |  |
| 7                                                            | 5               | QPSK                | 1       | 0         | 21.07               | 21.07     | 20.89     |  |
|                                                              |                 |                     | 1       | 12        | 21.21               | 21.25     | 21.13     |  |
|                                                              |                 |                     | 1       | 24        | 21.03               | 21.09     | 21.06     |  |
|                                                              |                 |                     | 12      | 0         | 20.13               | 20.18     | 19.98     |  |
|                                                              |                 |                     | 12      | 6         | 20.10               | 20.19     | 20.04     |  |
|                                                              |                 |                     | 12      | 11        | 20.14               | 20.24     | 20.05     |  |
|                                                              |                 |                     | 25      | 0         | 20.12               | 20.22     | 20.02     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.25     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 20.18               | 20.31     | 20.12     |  |
|                                                              |                 |                     | 1       | 12        | 20.29               | 20.46     | 20.29     |  |
|                                                              |                 |                     | 1       | 24        | 20.12               | 20.33     | 20.28     |  |
|                                                              |                 |                     | 12      | 0         | 19.15               | 19.33     | 19.08     |  |
|                                                              |                 |                     | 12      | 6         | 19.13               | 19.35     | 19.09     |  |
|                                                              |                 |                     | 12      | 11        | 19.13               | 19.32     | 19.13     |  |
|                                                              |                 |                     | 25      | 0         | 19.11               | 19.30     | 19.11     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.46     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20800               | 21100     | 21400     |  |
|                                                              |                 |                     |         |           | 2505.0MHz           | 2535.0MHz | 2565.0MHz |  |
| 7                                                            | 10              | QPSK                | 1       | 0         | 21.23               | 21.11     | 20.84     |  |
|                                                              |                 |                     | 1       | 24        | 21.35               | 21.39     | 21.13     |  |
|                                                              |                 |                     | 1       | 49        | 20.99               | 21.17     | 21.12     |  |
|                                                              |                 |                     | 25      | 0         | 20.14               | 20.28     | 19.96     |  |
|                                                              |                 |                     | 25      | 12        | 20.05               | 20.34     | 20.05     |  |
|                                                              |                 |                     | 25      | 24        | 20.08               | 20.29     | 20.05     |  |
|                                                              |                 |                     | 50      | 0         | 20.03               | 20.25     | 20.01     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.39     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 19.96               | 20.40     | 19.97     |  |
|                                                              |                 |                     | 1       | 24        | 20.09               | 20.67     | 20.21     |  |
|                                                              |                 |                     | 1       | 49        | 19.73               | 20.45     | 20.22     |  |
|                                                              |                 |                     | 25      | 0         | 19.17               | 19.38     | 19.07     |  |
|                                                              |                 |                     | 25      | 12        | 19.10               | 19.46     | 19.15     |  |
|                                                              |                 |                     | 25      | 24        | 19.13               | 19.45     | 19.12     |  |
|                                                              |                 |                     | 50      | 0         | 19.09               | 19.42     | 19.11     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.67     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20825               | 21100     | 21375     |  |
|                                                              |                 |                     |         |           | 2507.5MHz           | 2535.0MHz | 2562.5MHz |  |
| 7                                                            | 15              | QPSK                | 1       | 0         | 21.27               | 21.00     | 20.77     |  |
|                                                              |                 |                     | 1       | 37        | 21.11               | 21.25     | 20.85     |  |
|                                                              |                 |                     | 1       | 74        | 20.81               | 21.02     | 21.03     |  |
|                                                              |                 |                     | 36      | 0         | 20.18               | 20.25     | 20.03     |  |
|                                                              |                 |                     | 36      | 16        | 20.04               | 20.34     | 20.05     |  |
|                                                              |                 |                     | 36      | 35        | 20.11               | 20.30     | 20.02     |  |
|                                                              |                 |                     | 75      | 0         | 20.05               | 20.26     | 20.01     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.27     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 20.08               | 20.26     | 19.94     |  |
|                                                              |                 |                     | 1       | 37        | 19.97               | 20.51     | 20.03     |  |
|                                                              |                 |                     | 1       | 74        | 19.80               | 20.25     | 20.16     |  |
|                                                              |                 |                     | 36      | 0         | 19.15               | 19.33     | 19.02     |  |
|                                                              |                 |                     | 36      | 16        | 19.02               | 19.36     | 19.07     |  |
|                                                              |                 |                     | 36      | 35        | 19.05               | 19.35     | 19.05     |  |
|                                                              |                 |                     | 75      | 0         | 19.01               | 19.32     | 19.03     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.51     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20850               | 21100     | 21350     |  |
|                                                              |                 |                     |         |           | 2510.0MHz           | 2535.0MHz | 2560.0MHz |  |
| 7                                                            | 20              | QPSK                | 1       | 0         | 21.08               | 20.78     | 20.65     |  |
|                                                              |                 |                     | 1       | 49        | 21.14               | 21.40     | 20.96     |  |
|                                                              |                 |                     | 1       | 99        | 20.65               | 20.86     | 20.85     |  |
|                                                              |                 |                     | 50      | 0         | 20.01               | 20.15     | 19.87     |  |
|                                                              |                 |                     | 50      | 24        | 19.91               | 20.22     | 19.98     |  |
|                                                              |                 |                     | 50      | 49        | 19.96               | 20.15     | 19.91     |  |
|                                                              |                 |                     | 100     | 0         | 19.95               | 19.12     | 19.90     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 20.40     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 19.76               | 19.58     | 19.83     |  |
|                                                              |                 |                     | 1       | 49        | 19.94               | 20.13     | 20.19     |  |
|                                                              |                 |                     | 1       | 99        | 19.47               | 19.60     | 20.01     |  |
|                                                              |                 |                     | 50      | 0         | 19.05               | 19.22     | 18.97     |  |
|                                                              |                 |                     | 50      | 24        | 19.04               | 19.32     | 19.09     |  |
|                                                              |                 |                     | 50      | 49        | 19.03               | 19.31     | 19.08     |  |
|                                                              |                 |                     | 100     | 0         | 19.02               | 19.29     | 19.05     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 19.19     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |
|----------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|
|          |                 |                    |         |           | 37775               | 38000     | 38225     |
|          |                 |                    |         |           | 2572.5MHz           | 2595.0MHz | 2617.5MHz |
| 38       | 5               | QPSK               | 1       | 0         | 20.94               | 20.66     | 20.92     |
|          |                 |                    | 1       | 12        | 21.15               | 20.76     | 21.11     |
|          |                 |                    | 1       | 24        | 21.05               | 20.58     | 20.94     |
|          |                 |                    | 12      | 0         | 19.98               | 19.66     | 20.08     |
|          |                 |                    | 12      | 6         | 20.02               | 19.65     | 20.06     |
|          |                 |                    | 12      | 11        | 20.04               | 19.67     | 20.09     |
|          |                 |                    | 25      | 0         | 20.01               | 19.62     | 20.05     |
|          |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |
|          |                 | Max. EIRP (dBm):   |         |           |                     | 20.15     |           |
|          |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |
|          |                 | 16QAM              | 1       | 0         | 20.21               | 19.73     | 20.22     |
|          |                 |                    | 1       | 12        | 20.41               | 19.83     | 20.38     |
|          |                 |                    | 1       | 24        | 20.26               | 19.63     | 20.22     |
|          |                 |                    | 12      | 0         | 19.04               | 19.06     | 19.21     |
|          |                 |                    | 12      | 6         | 19.09               | 19.05     | 19.18     |
|          |                 |                    | 12      | 11        | 19.13               | 19.03     | 19.17     |
|          |                 |                    | 25      | 0         | 19.11               | 19.02     | 19.12     |
|          |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |
|          |                 | Max. EIRP (dBm):   |         |           |                     | 19.41     |           |
|          |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |
| 38       | 10              | QPSK               | 1       | 0         | 21.01               | 20.89     | 20.95     |
|          |                 |                    | 1       | 24        | 21.37               | 20.93     | 21.31     |
|          |                 |                    | 1       | 49        | 21.21               | 20.67     | 21.09     |
|          |                 |                    | 25      | 0         | 20.13               | 19.76     | 20.05     |
|          |                 |                    | 25      | 12        | 20.19               | 19.65     | 20.11     |
|          |                 |                    | 25      | 24        | 20.15               | 19.71     | 20.08     |
|          |                 |                    | 50      | 0         | 20.14               | 19.69     | 20.02     |
|          |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |
|          |                 | Max. EIRP (dBm):   |         |           |                     | 20.37     |           |
|          |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |
|          |                 | 16QAM              | 1       | 0         | 20.27               | 19.79     | 19.75     |
|          |                 |                    | 1       | 24        | 20.58               | 19.83     | 20.14     |
|          |                 |                    | 1       | 49        | 20.38               | 19.61     | 19.97     |
|          |                 |                    | 25      | 0         | 19.21               | 19.05     | 19.10     |
|          |                 |                    | 25      | 12        | 19.29               | 19.04     | 19.28     |
|          |                 |                    | 25      | 24        | 19.25               | 19.03     | 19.22     |
|          |                 |                    | 50      | 0         | 19.23               | 19.01     | 19.20     |
|          |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |
|          |                 | Max. EIRP (dBm):   |         |           |                     | 19.58     |           |
|          |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |

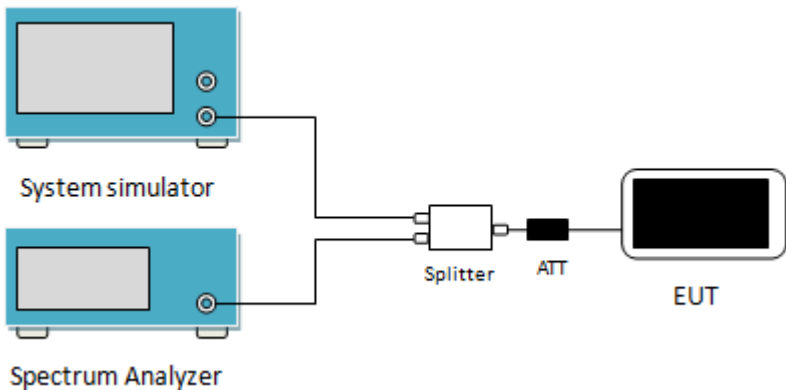
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                    |         |           | 37825               | 38000     | 38175     |  |
|                                                              |                 |                    |         |           | 2577.5MHz           | 2595.0MHz | 2612.5MHz |  |
| 38                                                           | 15              | QPSK               | 1       | 0         | 21.08               | 20.89     | 20.71     |  |
|                                                              |                 |                    | 1       | 37        | 21.35               | 20.72     | 21.03     |  |
|                                                              |                 |                    | 1       | 74        | 21.14               | 20.56     | 21.00     |  |
|                                                              |                 |                    | 36      | 0         | 20.20               | 19.91     | 19.94     |  |
|                                                              |                 |                    | 36      | 16        | 20.29               | 19.75     | 20.10     |  |
|                                                              |                 |                    | 36      | 35        | 20.26               | 19.82     | 20.03     |  |
|                                                              |                 |                    | 75      | 0         | 20.23               | 19.81     | 20.01     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.35     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 20.00               | 20.04     | 19.69     |  |
|                                                              |                 |                    | 1       | 37        | 20.18               | 19.94     | 19.98     |  |
|                                                              |                 |                    | 1       | 74        | 19.90               | 19.87     | 20.02     |  |
|                                                              |                 |                    | 36      | 0         | 19.18               | 19.06     | 19.01     |  |
|                                                              |                 |                    | 36      | 16        | 19.25               | 19.07     | 19.14     |  |
|                                                              |                 |                    | 36      | 35        | 19.22               | 19.05     | 19.11     |  |
|                                                              |                 |                    | 75      | 0         | 19.16               | 19.02     | 19.09     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 19.18     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 |                    |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                    |         |           | 37850               | 38000     | 38150     |  |
|                                                              |                 |                    |         |           | 2580.0MHz           | 2595.0MHz | 2610.0MHz |  |
| 38                                                           | 20              | QPSK               | 1       | 0         | 20.82               | 20.90     | 20.51     |  |
|                                                              |                 |                    | 1       | 49        | 21.39               | 20.94     | 21.09     |  |
|                                                              |                 |                    | 1       | 99        | 20.67               | 20.51     | 20.84     |  |
|                                                              |                 |                    | 50      | 0         | 20.06               | 19.79     | 19.76     |  |
|                                                              |                 |                    | 50      | 24        | 20.01               | 19.65     | 19.95     |  |
|                                                              |                 |                    | 50      | 49        | 20.03               | 19.67     | 19.81     |  |
|                                                              |                 |                    | 100     | 0         | 20.00               | 19.63     | 19.78     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.39     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 19.92               | 19.63     | 19.04     |  |
|                                                              |                 |                    | 1       | 49        | 20.38               | 19.71     | 19.63     |  |
|                                                              |                 |                    | 1       | 99        | 19.69               | 19.37     | 19.48     |  |
|                                                              |                 |                    | 50      | 0         | 19.13               | 19.03     | 19.06     |  |
|                                                              |                 |                    | 50      | 24        | 19.04               | 19.06     | 19.07     |  |
|                                                              |                 |                    | 50      | 49        | 19.12               | 19.04     | 19.05     |  |
|                                                              |                 |                    | 100     | 0         | 19.10               | 19.03     | 19.02     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 19.38     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                    |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                    |         |           | 40065               | 40640     | 41215     |  |
|                                                              |                 |                    |         |           | 2537.5MHz           | 2595.0MHz | 2652.5MHz |  |
| 41                                                           | 5               | QPSK               | 1       | 0         | 21.08               | 20.75     | 20.81     |  |
|                                                              |                 |                    | 1       | 12        | 21.22               | 20.79     | 20.99     |  |
|                                                              |                 |                    | 1       | 24        | 21.08               | 20.62     | 20.89     |  |
|                                                              |                 |                    | 12      | 0         | 20.12               | 19.71     | 19.92     |  |
|                                                              |                 |                    | 12      | 6         | 20.09               | 19.62     | 19.90     |  |
|                                                              |                 |                    | 12      | 11        | 20.11               | 19.67     | 19.91     |  |
|                                                              |                 |                    | 25      | 0         | 20.06               | 19.62     | 19.89     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.22     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 20.34               | 19.77     | 20.08     |  |
|                                                              |                 |                    | 1       | 12        | 20.50               | 19.82     | 20.21     |  |
|                                                              |                 |                    | 1       | 24        | 20.36               | 19.68     | 20.13     |  |
|                                                              |                 |                    | 12      | 0         | 19.15               | 19.05     | 19.05     |  |
|                                                              |                 |                    | 12      | 6         | 19.13               | 19.06     | 19.02     |  |
|                                                              |                 |                    | 12      | 11        | 19.17               | 19.04     | 19.02     |  |
|                                                              |                 |                    | 25      | 0         | 19.15               | 19.02     | 19.01     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 19.50     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
|                                                              |                 |                    |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                    |         |           | 40090               | 40640     | 41190     |  |
|                                                              |                 |                    |         |           | 2540.0MHz           | 2595.0MHz | 2650.0MHz |  |
| 41                                                           | 10              | QPSK               | 1       | 0         | 21.18               | 20.86     | 20.89     |  |
|                                                              |                 |                    | 1       | 24        | 21.35               | 20.90     | 21.16     |  |
|                                                              |                 |                    | 1       | 49        | 21.00               | 20.65     | 21.04     |  |
|                                                              |                 |                    | 25      | 0         | 20.14               | 19.80     | 19.98     |  |
|                                                              |                 |                    | 25      | 12        | 20.10               | 19.67     | 19.95     |  |
|                                                              |                 |                    | 25      | 24        | 20.11               | 19.71     | 19.98     |  |
|                                                              |                 |                    | 50      | 0         | 20.08               | 19.68     | 19.95     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.35     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 20.01               | 20.04     | 19.87     |  |
|                                                              |                 |                    | 1       | 24        | 20.19               | 20.10     | 20.11     |  |
|                                                              |                 |                    | 1       | 49        | 19.89               | 19.90     | 19.88     |  |
|                                                              |                 |                    | 25      | 0         | 19.20               | 19.08     | 19.03     |  |
|                                                              |                 |                    | 25      | 12        | 19.14               | 19.05     | 19.01     |  |
|                                                              |                 |                    | 25      | 24        | 19.12               | 19.06     | 19.02     |  |
|                                                              |                 |                    | 50      | 0         | 19.10               | 19.03     | 19.01     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 19.19     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                    |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                    |         |           | 40115               | 40640     | 41165     |  |
|                                                              |                 |                    |         |           | 2542.5MHz           | 2595.0MHz | 2647.5MHz |  |
| 41                                                           | 15              | QPSK               | 1       | 0         | 21.09               | 20.88     | 20.97     |  |
|                                                              |                 |                    | 1       | 37        | 21.09               | 20.74     | 21.04     |  |
|                                                              |                 |                    | 1       | 74        | 20.72               | 20.64     | 21.02     |  |
|                                                              |                 |                    | 36      | 0         | 20.19               | 19.90     | 19.97     |  |
|                                                              |                 |                    | 36      | 16        | 20.00               | 19.77     | 20.00     |  |
|                                                              |                 |                    | 36      | 35        | 20.10               | 19.84     | 20.00     |  |
|                                                              |                 |                    | 75      | 0         | 20.05               | 19.82     | 19.98     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.09     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 20.35               | 19.81     | 19.90     |  |
|                                                              |                 |                    | 1       | 37        | 20.41               | 19.67     | 19.94     |  |
|                                                              |                 |                    | 1       | 74        | 20.10               | 19.59     | 19.89     |  |
|                                                              |                 |                    | 36      | 0         | 19.26               | 19.08     | 19.01     |  |
|                                                              |                 |                    | 36      | 16        | 19.06               | 19.06     | 19.01     |  |
|                                                              |                 |                    | 36      | 35        | 19.05               | 19.04     | 19.02     |  |
|                                                              |                 |                    | 75      | 0         | 19.02               | 19.03     | 19.00     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 19.41     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
|                                                              |                 |                    |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                    |         |           | 40140               | 40640     | 41140     |  |
|                                                              |                 |                    |         |           | 2545.0MHz           | 2595.0MHz | 2645.0MHz |  |
| 41                                                           | 20              | QPSK               | 1       | 0         | 20.99               | 20.85     | 20.81     |  |
|                                                              |                 |                    | 1       | 49        | 21.17               | 20.91     | 21.04     |  |
|                                                              |                 |                    | 1       | 99        | 20.53               | 20.54     | 20.74     |  |
|                                                              |                 |                    | 50      | 0         | 20.06               | 19.76     | 19.95     |  |
|                                                              |                 |                    | 50      | 24        | 19.84               | 19.66     | 19.86     |  |
|                                                              |                 |                    | 50      | 49        | 19.93               | 19.71     | 19.91     |  |
|                                                              |                 |                    | 100     | 0         | 19.92               | 19.58     | 19.89     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -1.0      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 20.17     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 19.83               | 19.36     | 19.98     |  |
|                                                              |                 |                    | 1       | 49        | 20.03               | 19.41     | 20.13     |  |
|                                                              |                 |                    | 1       | 99        | 19.43               | 19.10     | 19.86     |  |
|                                                              |                 |                    | 50      | 0         | 19.10               | 19.06     | 19.06     |  |
|                                                              |                 |                    | 50      | 24        | 19.08               | 19.08     | 19.05     |  |
|                                                              |                 |                    | 50      | 49        | 19.06               | 19.04     | 19.04     |  |
|                                                              |                 |                    | 100     | 0         | 19.02               | 19.02     | 19.02     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -1.0      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 19.13     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                    |         |           |                     |           |           |  |

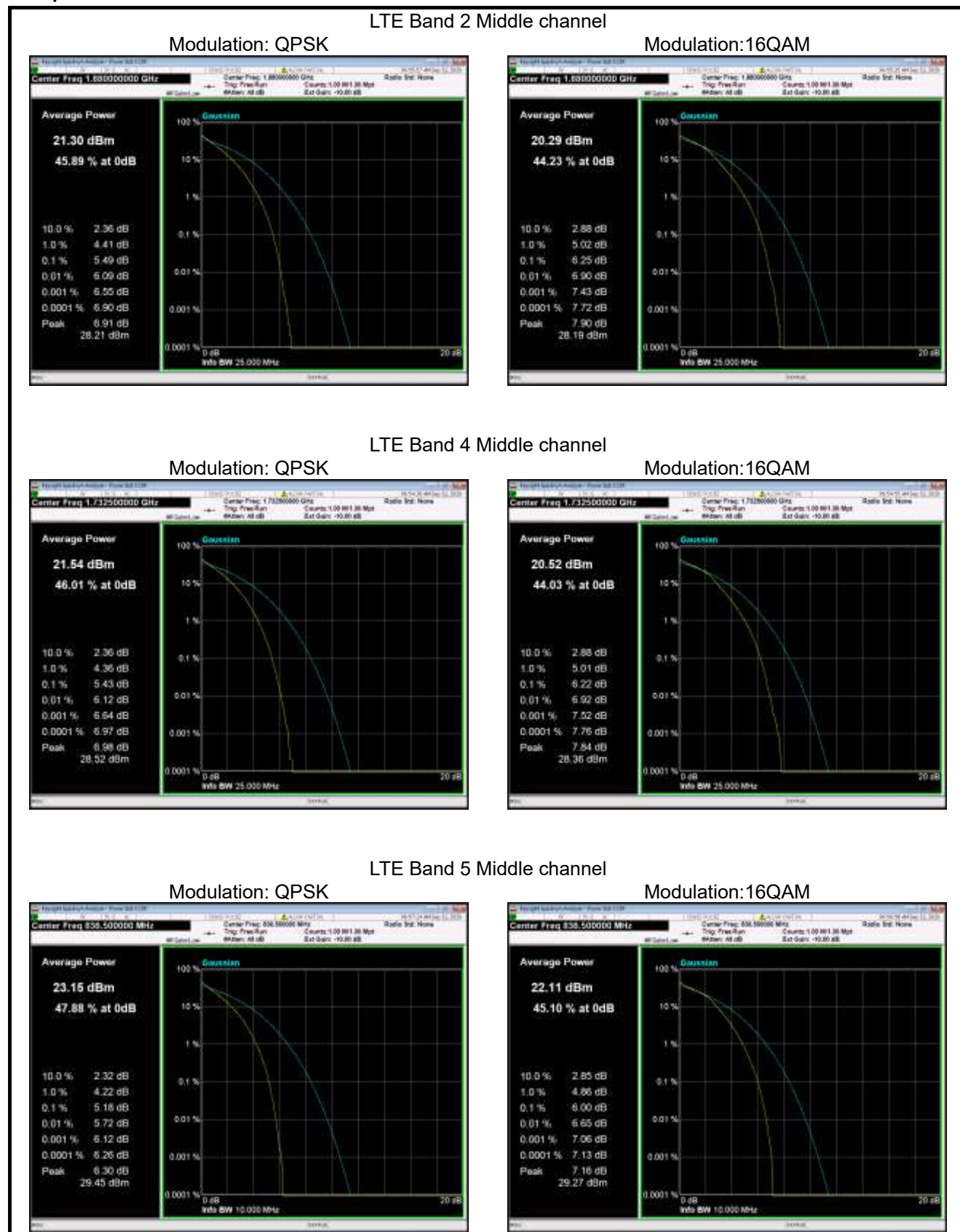
## 6.2 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 24.232 (d), Part 27.50(d)(5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Limit:            | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port is connected to a black rectangular unit labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 Set the CCDF option in spectrum analyzer, <math>RBW \geq OBW</math>,</li> <li>3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.</li> <li>4 Repeat step 1~3 at other frequency and modulations.</li> </ol>                                                                                                                                                                                                                                        |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data (Worst case):

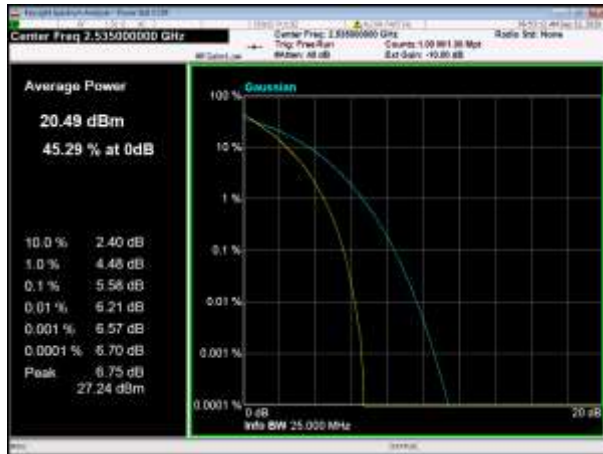
| Bandwidth                    | Modulation | RB Size | RB Offset | PAPR |
|------------------------------|------------|---------|-----------|------|
| LTE Band 2 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.49 |
|                              | 16QAM      | 100     | 0         | 6.25 |
| LTE Band 4 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.43 |
|                              | 16QAM      | 100     | 0         | 6.22 |
| LTE Band 5 (Middle Channel)  |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.18 |
|                              | 16QAM      | 50      | 0         | 6.00 |
| LTE Band 7 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.58 |
|                              | 16QAM      | 100     | 0         | 6.42 |
| LTE Band 38 (Middle Channel) |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.92 |
|                              | 16QAM      | 100     | 0         | 6.18 |
| LTE Band 41 (Middle Channel) |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.45 |
|                              | 16QAM      | 100     | 0         | 6.01 |

Test plots as below:

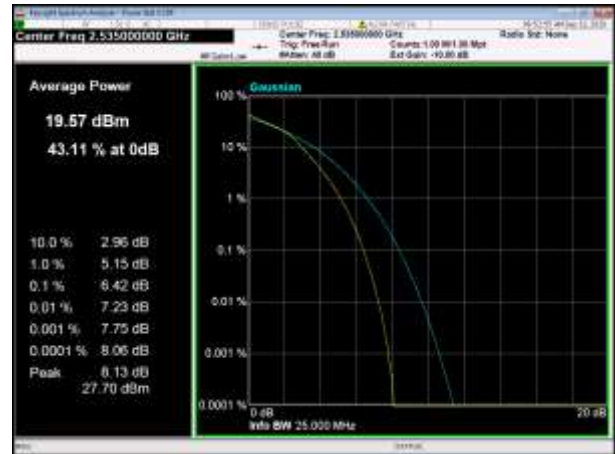


## LTE Band 7 Middle channel

Modulation: QPSK

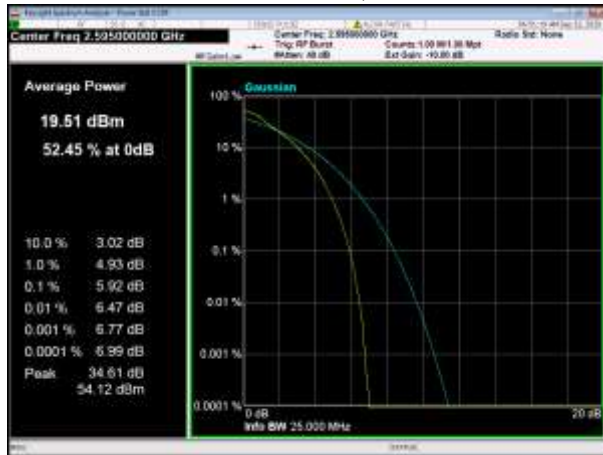


Modulation: 16QAM

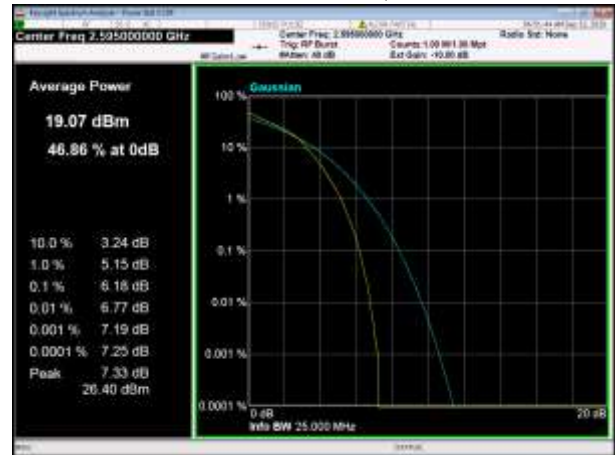


## LTE Band 38 Middle channel

Modulation: QPSK

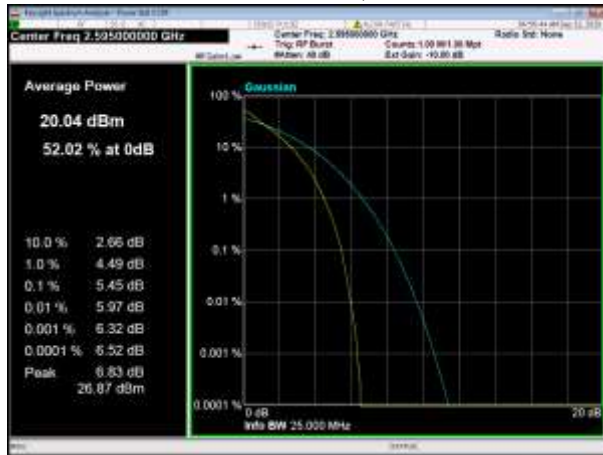


Modulation: 16QAM

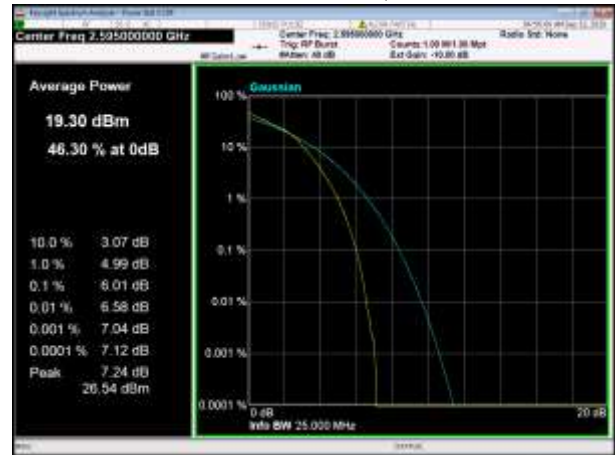


## LTE Band 41 Middle channel

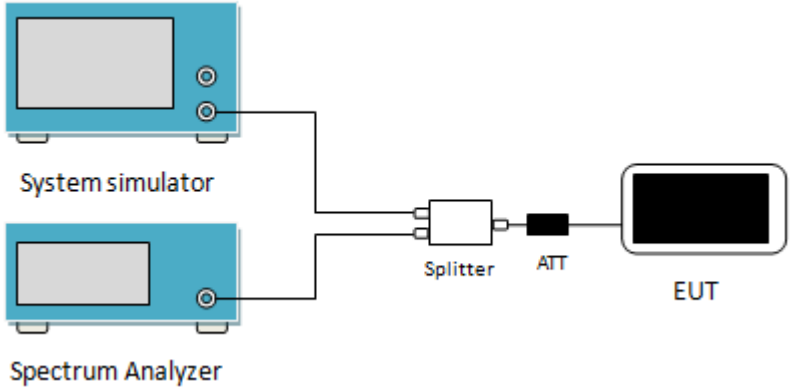
Modulation: QPSK



Modulation: 16QAM



### 6.3 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.917(b), Part 24.238(b), Part 27.53(h), Part 27.53(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Setup:       |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port is connected to a black rectangular unit labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol>                                                                                                                                                                                                                         |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data:

| LTE Band 2 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz     | 18607   | 1850.70         | 16QAM      | 1092          | 1266            |
|            |         |                 | QPSK       | 1104          | 1284            |
|            | 18900   | 1880.00         | 16QAM      | 1092          | 1254            |
|            |         |                 | QPSK       | 1098          | 1290            |
|            | 19193   | 1909.30         | 16QAM      | 1104          | 1260            |
|            |         |                 | QPSK       | 1092          | 1272            |
| 3MHz       | 18615   | 1851.50         | 16QAM      | 2712          | 2976            |
|            |         |                 | QPSK       | 2724          | 3012            |
|            | 18900   | 1880.00         | 16QAM      | 2724          | 2964            |
|            |         |                 | QPSK       | 2736          | 3000            |
|            | 19185   | 1908.50         | 16QAM      | 2712          | 2940            |
|            |         |                 | QPSK       | 2712          | 2976            |
| 5MHz       | 18625   | 1852.50         | 16QAM      | 4520          | 4980            |
|            |         |                 | QPSK       | 4520          | 5080            |
|            | 18900   | 1880.00         | 16QAM      | 4500          | 4920            |
|            |         |                 | QPSK       | 4520          | 5120            |
|            | 19175   | 1907.50         | 16QAM      | 4520          | 4980            |
|            |         |                 | QPSK       | 4520          | 5100            |
| 10MHz      | 18650   | 1855.00         | 16QAM      | 9080          | 10120           |
|            |         |                 | QPSK       | 9120          | 10360           |
|            | 18900   | 1880.00         | 16QAM      | 9080          | 10080           |
|            |         |                 | QPSK       | 9120          | 10400           |
|            | 19150   | 1905.00         | 16QAM      | 9120          | 10080           |
|            |         |                 | QPSK       | 9120          | 10400           |
| 15MHz      | 18675   | 1857.50         | 16QAM      | 13500         | 14640           |
|            |         |                 | QPSK       | 13560         | 15060           |
|            | 18900   | 1880.00         | 16QAM      | 13500         | 14520           |
|            |         |                 | QPSK       | 13560         | 14820           |
|            | 19125   | 1902.50         | 16QAM      | 13560         | 14820           |
|            |         |                 | QPSK       | 13560         | 14940           |
| 20MHz      | 18700   | 1860.00         | 16QAM      | 18000         | 19440           |
|            |         |                 | QPSK       | 18000         | 19680           |
|            | 18900   | 1880.00         | 16QAM      | 17920         | 19280           |
|            |         |                 | QPSK       | 18000         | 19520           |
|            | 19100   | 1900.00         | 16QAM      | 17840         | 19120           |
|            |         |                 | QPSK       | 17920         | 19520           |

| LTE Band 4 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz     | 19957   | 1710.7          | 16QAM      | 1092          | 1266            |
|            |         |                 | QPSK       | 1098          | 1290            |
|            | 20175   | 1732.5          | 16QAM      | 1092          | 1284            |
|            |         |                 | QPSK       | 1104          | 1272            |
|            | 20393   | 1754.3          | 16QAM      | 1092          | 1284            |
|            |         |                 | QPSK       | 1098          | 1284            |
| 3MHz       | 19965   | 1711.5          | 16QAM      | 2724          | 2964            |
|            |         |                 | QPSK       | 2736          | 3000            |
|            | 20175   | 1732.5          | 16QAM      | 2724          | 2964            |
|            |         |                 | QPSK       | 2724          | 3012            |
|            | 20385   | 1750.5          | 16QAM      | 2724          | 2940            |
|            |         |                 | QPSK       | 2712          | 2988            |
| 5MHz       | 19975   | 1712.5          | 16QAM      | 4500          | 5020            |
|            |         |                 | QPSK       | 4520          | 5100            |
|            | 20175   | 1732.5          | 16QAM      | 4520          | 4980            |
|            |         |                 | QPSK       | 4540          | 5020            |
|            | 20375   | 1752.5          | 16QAM      | 4500          | 5000            |
|            |         |                 | QPSK       | 4520          | 5060            |
| 10MHz      | 20000   | 1715.0          | 16QAM      | 9120          | 10000           |
|            |         |                 | QPSK       | 9120          | 10320           |
|            | 20175   | 1732.5          | 16QAM      | 9080          | 10200           |
|            |         |                 | QPSK       | 9080          | 10240           |
|            | 20350   | 1750.0          | 16QAM      | 9040          | 10200           |
|            |         |                 | QPSK       | 9160          | 10280           |
| 15MHz      | 20025   | 1717.5          | 16QAM      | 13500         | 14760           |
|            |         |                 | QPSK       | 13500         | 15180           |
|            | 20175   | 1732.5          | 16QAM      | 13560         | 14640           |
|            |         |                 | QPSK       | 13560         | 14880           |
|            | 20325   | 1747.5          | 16QAM      | 13500         | 14820           |
|            |         |                 | QPSK       | 13560         | 15060           |
| 20MHz      | 20050   | 1720.0          | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18000         | 19440           |
|            | 20175   | 1732.5          | 16QAM      | 17920         | 19280           |
|            |         |                 | QPSK       | 18000         | 19600           |
|            | 20300   | 1745.0          | 16QAM      | 17920         | 19360           |
|            |         |                 | QPSK       | 18000         | 19600           |

| TE Band 5 |         |                 |            |               |                 |
|-----------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz    | 20407   | 824.7           | 16QAM      | 1092          | 1284            |
|           |         |                 | QPSK       | 1098          | 1272            |
|           | 20525   | 836.5           | 16QAM      | 1092          | 1302            |
|           |         |                 | QPSK       | 1098          | 1302            |
|           | 20643   | 848.3           | 16QAM      | 1092          | 1278            |
|           |         |                 | QPSK       | 1098          | 1278            |
| 3MHz      | 20415   | 825.5           | 16QAM      | 2724          | 2988            |
|           |         |                 | QPSK       | 2736          | 3000            |
|           | 20525   | 836.50          | 16QAM      | 2724          | 2988            |
|           |         |                 | QPSK       | 2736          | 3024            |
|           | 20635   | 847.50          | 16QAM      | 2724          | 2964            |
|           |         |                 | QPSK       | 2724          | 3000            |
| 5MHz      | 20425   | 826.50          | 16QAM      | 4500          | 4860            |
|           |         |                 | QPSK       | 4500          | 5100            |
|           | 20525   | 836.50          | 16QAM      | 4520          | 4880            |
|           |         |                 | QPSK       | 4540          | 5140            |
|           | 20625   | 846.50          | 16QAM      | 4480          | 4860            |
|           |         |                 | QPSK       | 4520          | 5100            |
| 10MHz     | 20450   | 829.00          | 16QAM      | 9080          | 10240           |
|           |         |                 | QPSK       | 9120          | 10400           |
|           | 20525   | 836.50          | 16QAM      | 9120          | 10120           |
|           |         |                 | QPSK       | 9120          | 10360           |
|           | 20600   | 844.00          | 16QAM      | 9080          | 10080           |
|           |         |                 | QPSK       | 9120          | 10280           |

| LTE Band 7 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz       | 20775   | 2502.5          | 16QAM      | 4480          | 4920            |
|            |         |                 | QPSK       | 4520          | 5100            |
|            | 21100   | 2535.0          | 16QAM      | 4520          | 4900            |
|            |         |                 | QPSK       | 4520          | 4980            |
|            | 21425   | 2567.5          | 16QAM      | 4500          | 4960            |
|            |         |                 | QPSK       | 4540          | 5100            |
| 10MHz      | 20800   | 2505.0          | 16QAM      | 9120          | 10120           |
|            |         |                 | QPSK       | 9080          | 10360           |
|            | 21100   | 2535.0          | 16QAM      | 9080          | 10160           |
|            |         |                 | QPSK       | 9120          | 10160           |
|            | 21400   | 2565.0          | 16QAM      | 9120          | 10080           |
|            |         |                 | QPSK       | 9120          | 10360           |
| 15MHz      | 20825   | 2507.5          | 16QAM      | 13500         | 14880           |
|            |         |                 | QPSK       | 13500         | 15060           |
|            | 21100   | 2535.0          | 16QAM      | 13500         | 14700           |
|            |         |                 | QPSK       | 13500         | 15120           |
|            | 21375   | 2562.5          | 16QAM      | 13500         | 14760           |
|            |         |                 | QPSK       | 13500         | 14940           |
| 20MHz      | 20850   | 2510.0          | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18080         | 19520           |
|            | 21100   | 2535.0          | 16QAM      | 18000         | 19200           |
|            |         |                 | QPSK       | 18000         | 19600           |
|            | 21350   | 2560.0          | 16QAM      | 17920         | 19280           |
|            |         |                 | QPSK       | 18000         | 19600           |

| LTE Band 38 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 37775   | 2574.50         | 16QAM      | 4520          | 5000            |
|             |         |                 | QPSK       | 4500          | 4980            |
|             | 38000   | 2595.00         | 16QAM      | 4520          | 4980            |
|             |         |                 | QPSK       | 4500          | 5120            |
|             | 38225   | 2617.50         | 16QAM      | 4500          | 5020            |
|             |         |                 | QPSK       | 4520          | 5000            |
| 10MHz       | 37800   | 2575.00         | 16QAM      | 9080          | 10000           |
|             |         |                 | QPSK       | 9080          | 10280           |
|             | 38000   | 2595.00         | 16QAM      | 9040          | 10080           |
|             |         |                 | QPSK       | 9120          | 10240           |
|             | 38200   | 2615.00         | 16QAM      | 9080          | 10040           |
|             |         |                 | QPSK       | 9080          | 10160           |
| 15MHz       | 37825   | 2577.50         | 16QAM      | 13500         | 14520           |
|             |         |                 | QPSK       | 13560         | 14820           |
|             | 38000   | 2595.00         | 16QAM      | 13500         | 14640           |
|             |         |                 | QPSK       | 13500         | 14820           |
|             | 38175   | 2612.50         | 16QAM      | 13560         | 14760           |
|             |         |                 | QPSK       | 13560         | 15060           |
| 20MHz       | 37850   | 2580.00         | 16QAM      | 17840         | 19120           |
|             |         |                 | QPSK       | 18080         | 19520           |
|             | 38000   | 2595.00         | 16QAM      | 18000         | 19360           |
|             |         |                 | QPSK       | 18000         | 19440           |
|             | 38150   | 2610.00         | 16QAM      | 17920         | 18880           |
|             |         |                 | QPSK       | 18000         | 19520           |

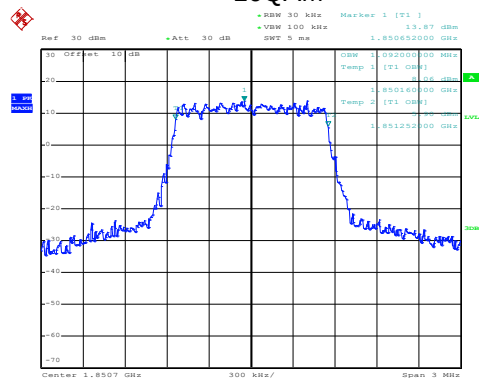
| LTE Band 41 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 40065   | 2537.50         | 16QAM      | 4520          | 4840            |
|             |         |                 | QPSK       | 4500          | 5040            |
|             | 40640   | 2595.00         | 16QAM      | 4520          | 5020            |
|             |         |                 | QPSK       | 4500          | 5040            |
|             | 41215   | 2652.50         | 16QAM      | 4520          | 4940            |
|             |         |                 | QPSK       | 4520          | 4920            |
| 10MHz       | 40090   | 2540.00         | 16QAM      | 9080          | 10040           |
|             |         |                 | QPSK       | 9080          | 10280           |
|             | 40640   | 2595.00         | 16QAM      | 9080          | 10040           |
|             |         |                 | QPSK       | 9080          | 10120           |
|             | 41190   | 2650.00         | 16QAM      | 9080          | 9960            |
|             |         |                 | QPSK       | 9080          | 10120           |
| 15MHz       | 40115   | 2542.50         | 16QAM      | 13500         | 14520           |
|             |         |                 | QPSK       | 13560         | 15000           |
|             | 40640   | 2595.00         | 16QAM      | 13560         | 14580           |
|             |         |                 | QPSK       | 13500         | 14760           |
|             | 41165   | 2647.50         | 16QAM      | 13560         | 14460           |
|             |         |                 | QPSK       | 13500         | 14520           |
| 20MHz       | 40140   | 2545.00         | 16QAM      | 18000         | 19040           |
|             |         |                 | QPSK       | 17920         | 19440           |
|             | 40640   | 2595.00         | 16QAM      | 17920         | 19120           |
|             |         |                 | QPSK       | 18000         | 19360           |
|             | 41140   | 2645.00         | 16QAM      | 17920         | 18880           |
|             |         |                 | QPSK       | 18000         | 19280           |

Test plot as follows:

LTE Band 2 part:

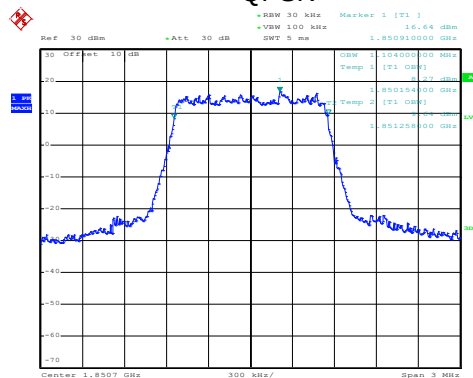
LTE Band 2: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 30.SEP.2020 22:26:20

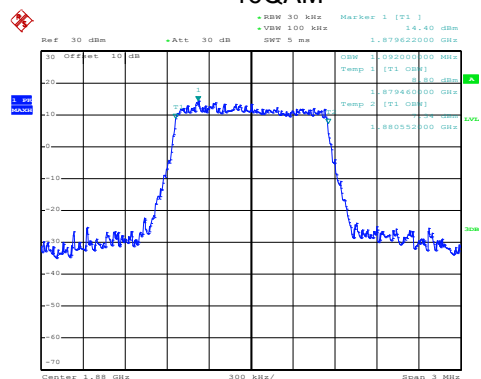
QPSK



Date: 30.SEP.2020 22:26:17

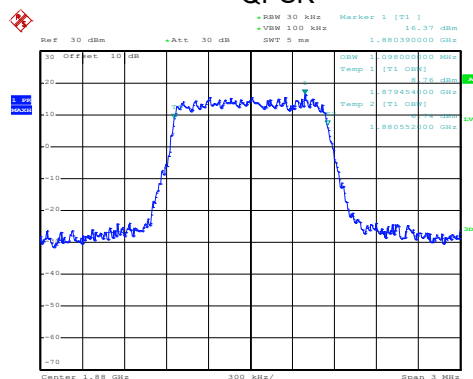
Lowest channel

16QAM



Date: 30.SEP.2020 22:26:51

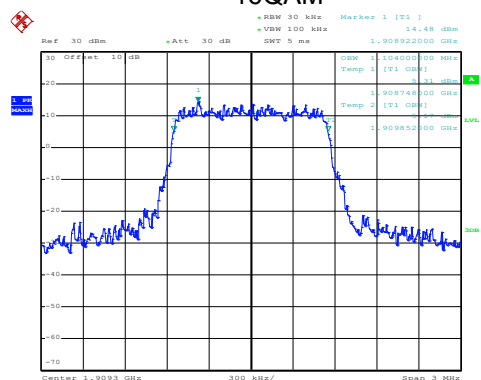
QPSK



Date: 30.SEP.2020 22:26:48

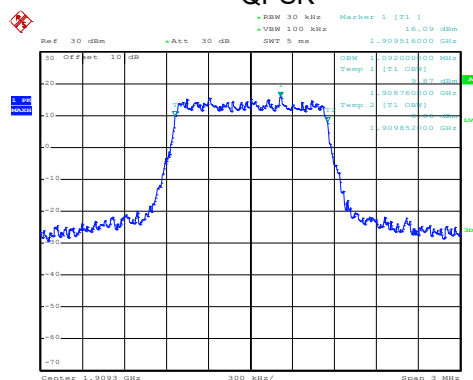
Middle channel

16QAM



Date: 30.SEP.2020 22:27:18

QPSK

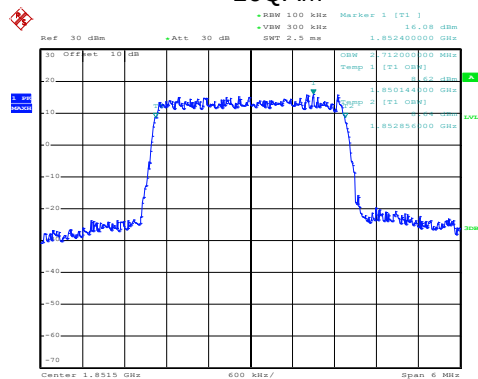


Date: 30.SEP.2020 22:27:15

Highest channel

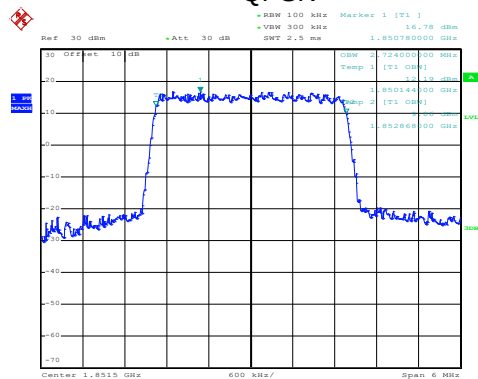
LTE Band 2: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 30.SEP.2020 22:28:00

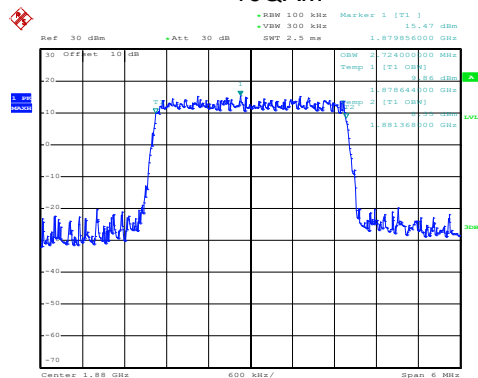
## QPSK



Date: 30.SEP.2020 22:27:57

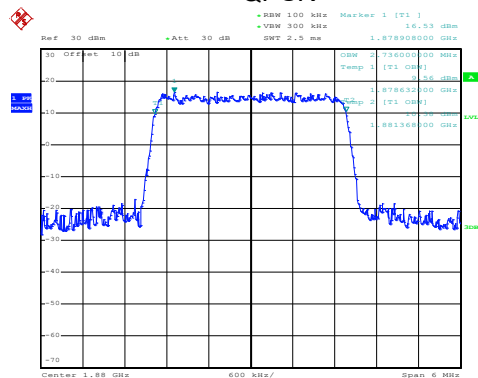
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:28:14

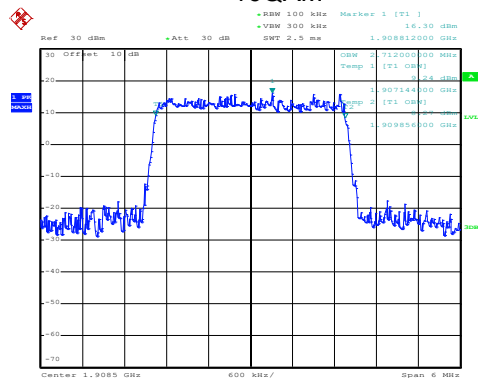
## QPSK



Date: 30.SEP.2020 22:28:10

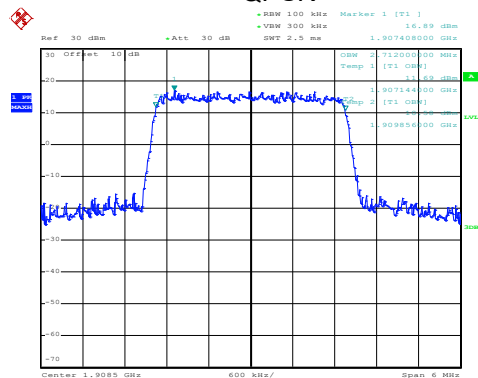
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:28:53

## QPSK

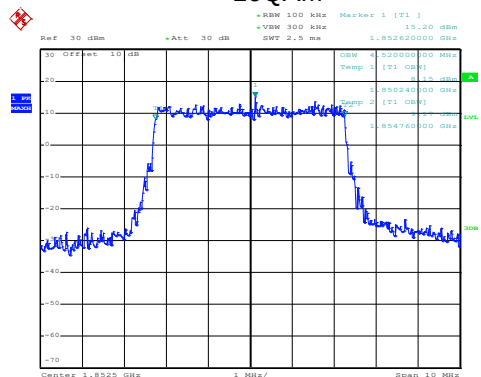


Date: 30.SEP.2020 22:28:50

## Highest channel

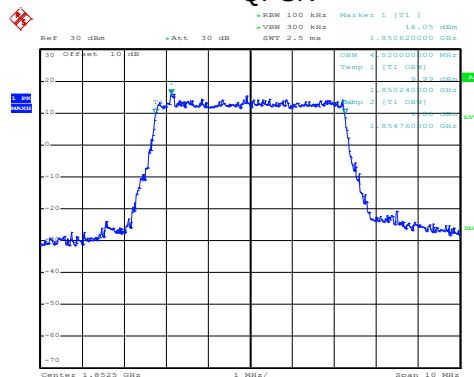
LTE Band 2: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:30:27

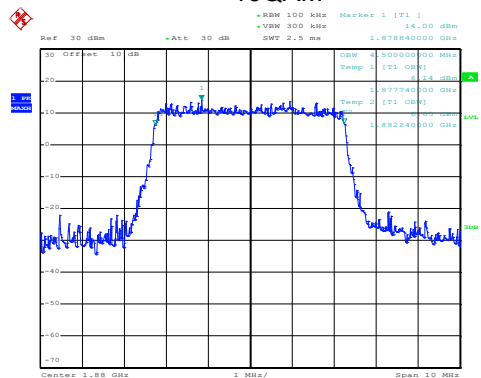
## QPSK



Date: 30.SEP.2020 22:30:23

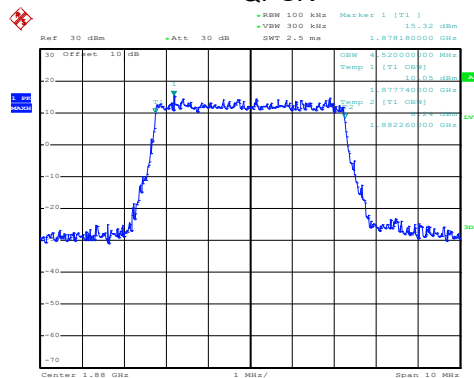
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:30:11

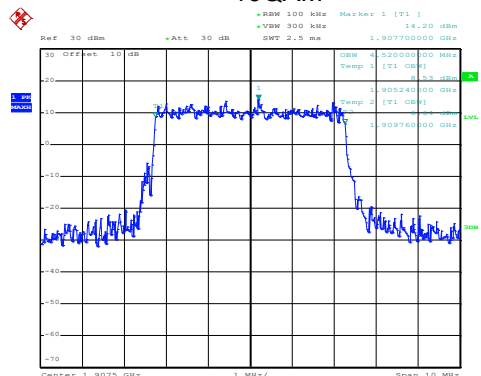
## QPSK



Date: 30.SEP.2020 22:30:07

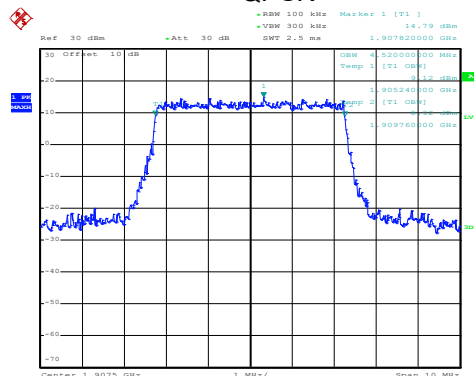
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:29:16

## QPSK

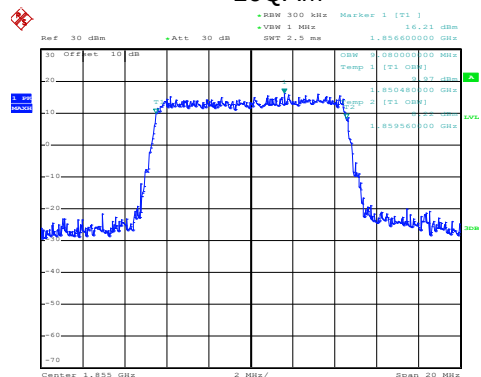


Date: 30.SEP.2020 22:29:12

## Highest channel

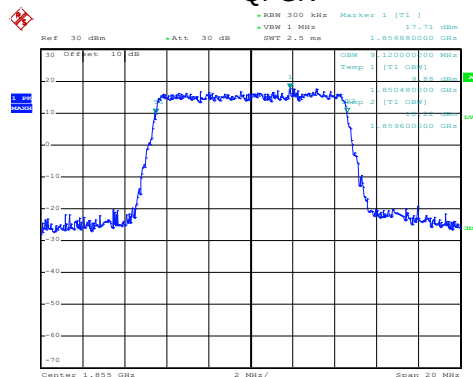
LTE Band 2: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 30.SEP.2020 22:31:11

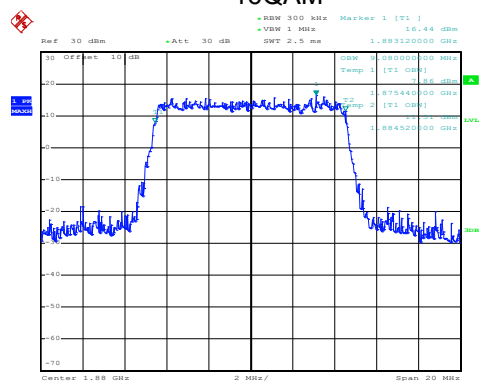
## QPSK



Date: 30.SEP.2020 22:31:08

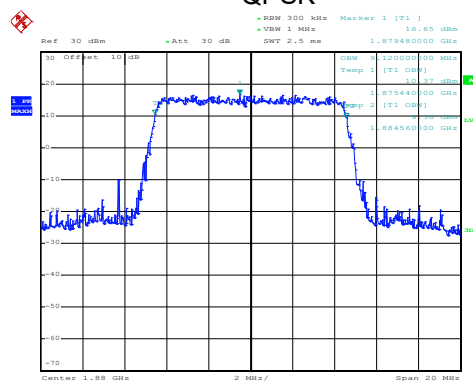
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:31:22

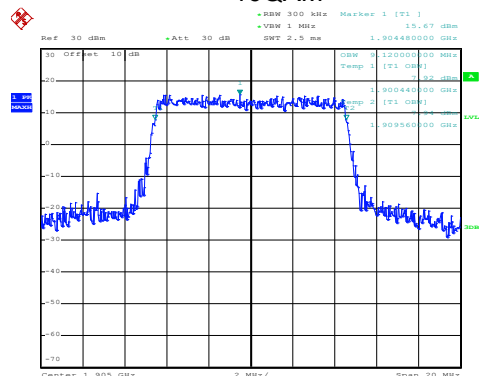
## QPSK



Date: 30.SEP.2020 22:31:19

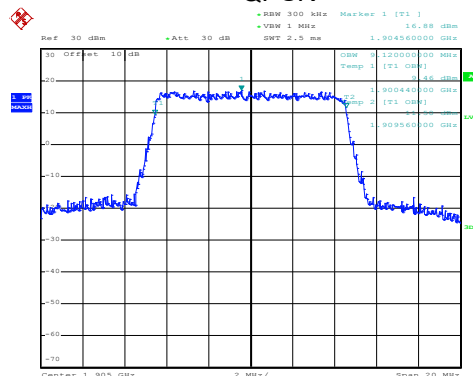
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:31:59

## QPSK

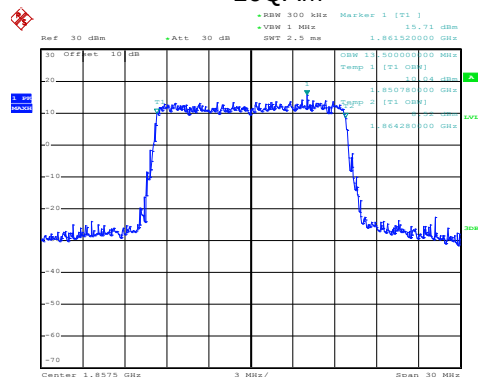


Date: 30.SEP.2020 22:31:56

## Highest channel

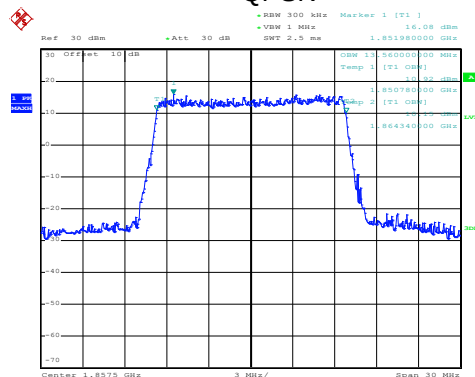
LTE Band 2: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:33:11

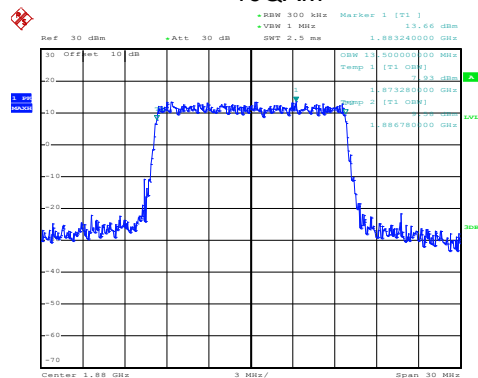
## QPSK



Date: 30.SEP.2020 22:33:07

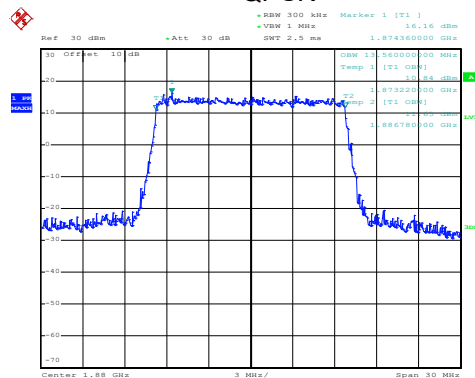
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:32:53

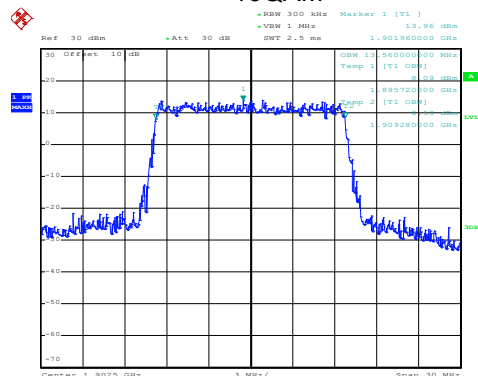
## QPSK



Date: 30.SEP.2020 22:32:50

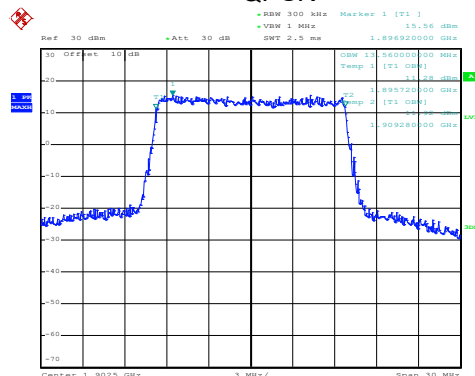
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:32:22

## QPSK



Date: 30.SEP.2020 22:32:19

## Highest channel

16QAM



QPSK



Lowest channel

## 16QAM



QPSK



Middle channel

16QAM



QPSK



## Highest channel

16QAM



## Date: 30.SEP.2020 22:26:27

## 16QAM



Date: 30.SEP.2020 22:26:39

## 16QAM



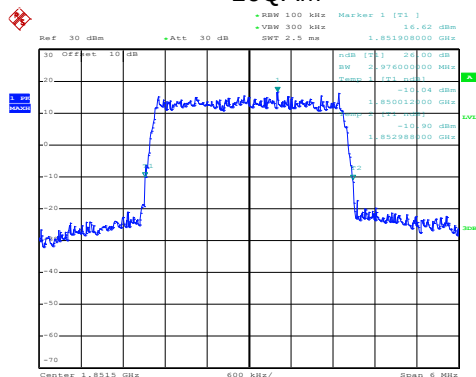
QPSK



## Page 46 of

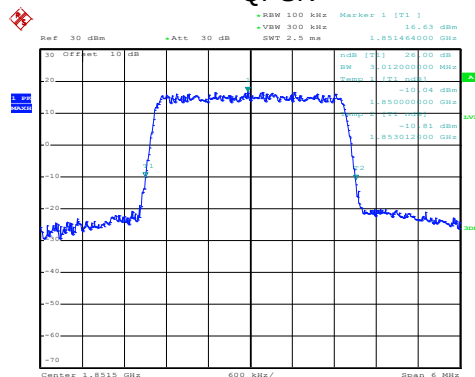
LTE Band 2: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 30.SEP.2020 22:27:51

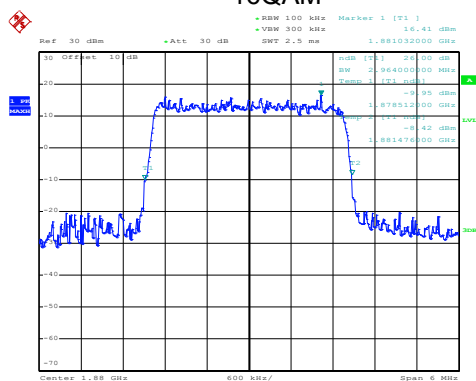
## QPSK



Date: 30.SEP.2020 22:27:48

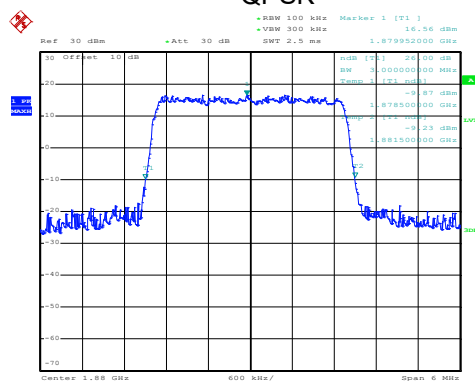
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:28:25

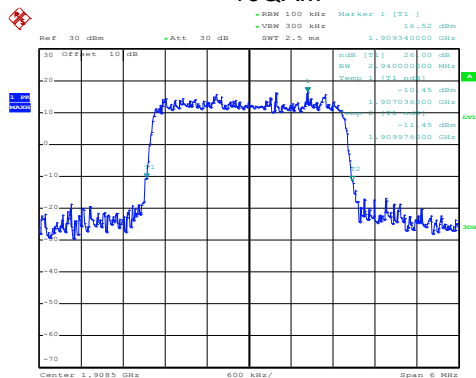
## QPSK



Date: 30.SEP.2020 22:28:22

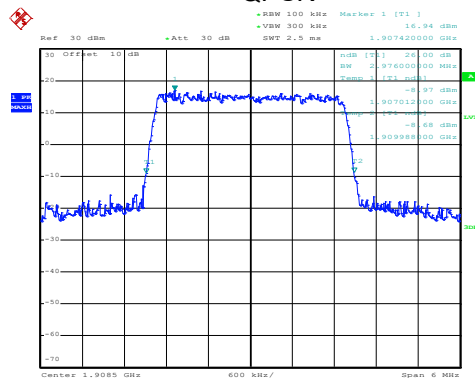
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:28:44

## QPSK

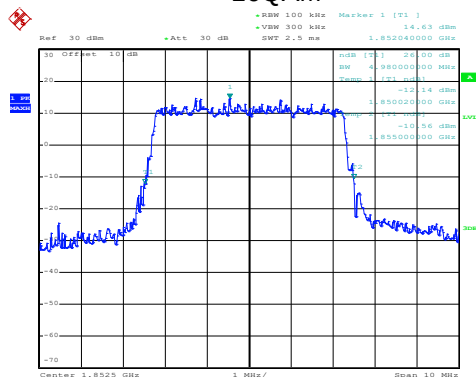


Date: 30.SEP.2020 22:28:41

## Highest channel

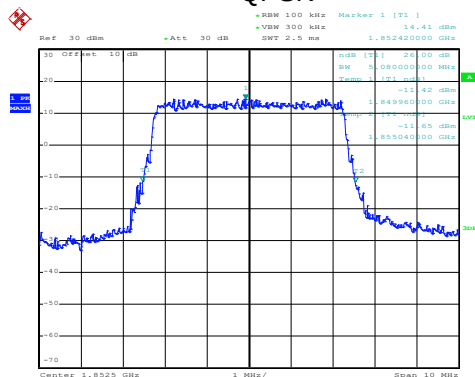
LTE Band 2: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:30:36

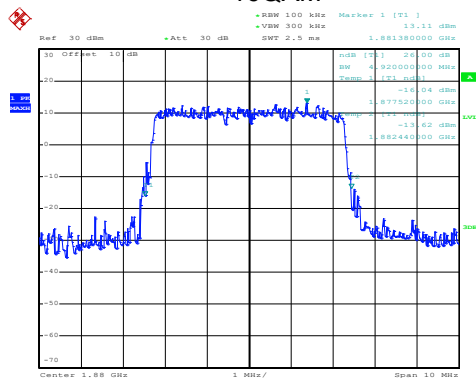
## QPSK



Date: 30.SEP.2020 22:30:32

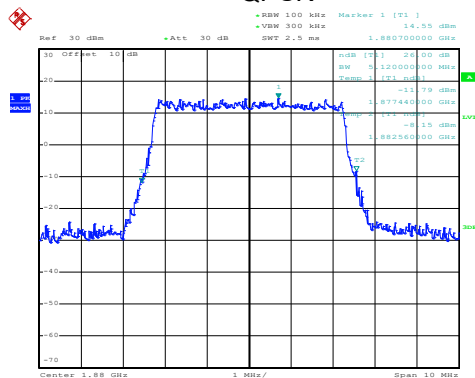
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:30:01

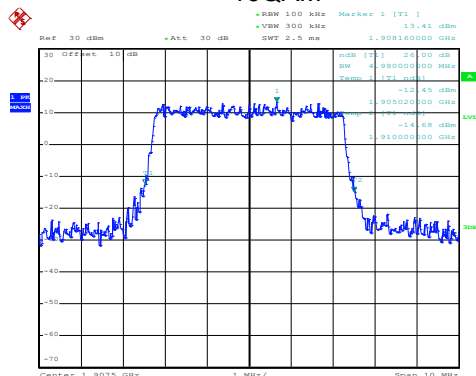
## QPSK



Date: 30.SEP.2020 22:29:58

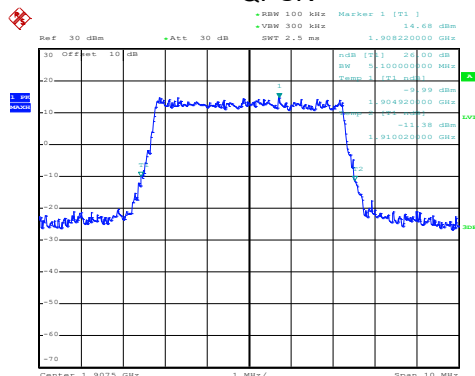
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:29:33

## QPSK



Date: 30.SEP.2020 22:29:24

## Highest channel

16QAM



QPSK



Lowest channel

## 16QAM



QPSK



Middle channel

16QAM



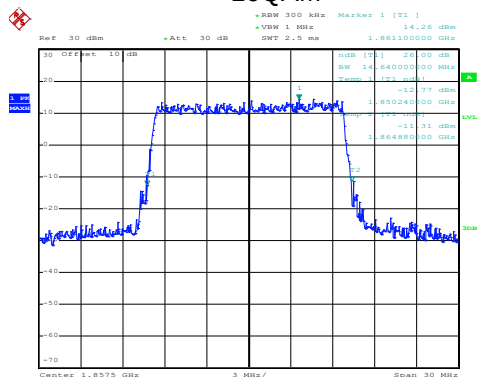
QPSK



## Highest channel

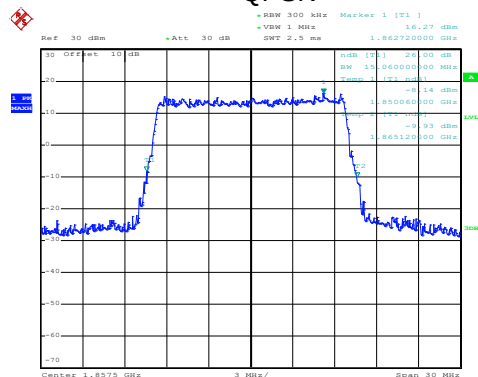
LTE Band 2: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:33:21

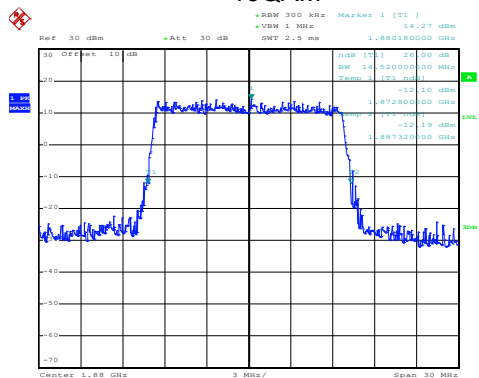
## QPSK



Date: 30.SEP.2020 22:33:18

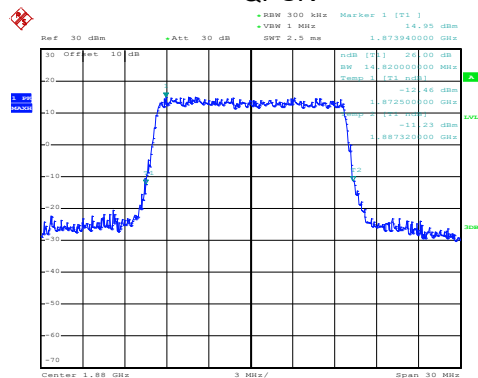
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:32:42

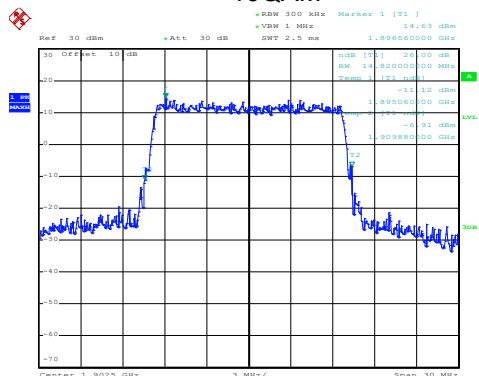
## QPSK



Date: 30.SEP.2020 22:32:39

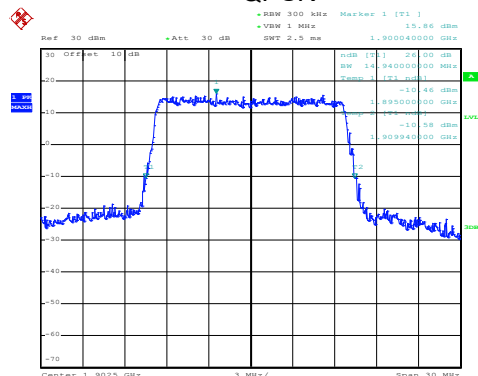
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:32:31

## QPSK

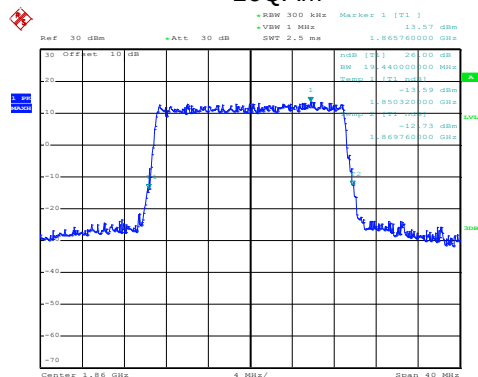


Date: 30.SEP.2020 22:32:28

## Highest channel

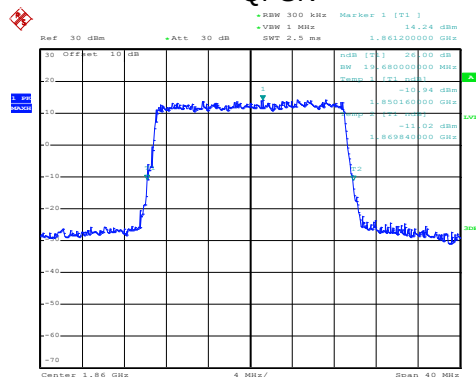
LTE Band 2: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 30.SEP.2020 22:35:30

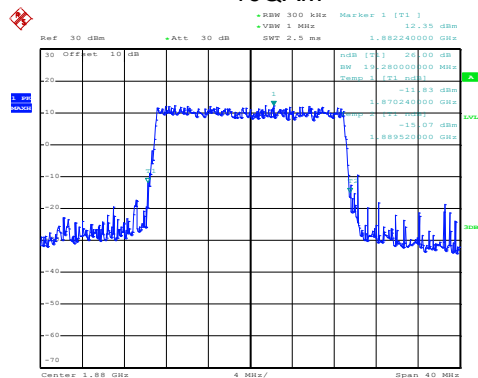
## QPSK



Date: 30.SEP.2020 22:35:23

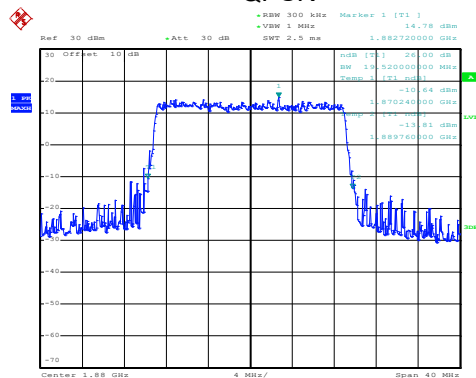
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:34:37

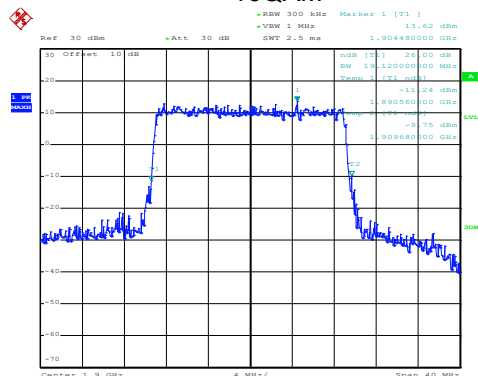
## QPSK



Date: 30.SEP.2020 22:34:34

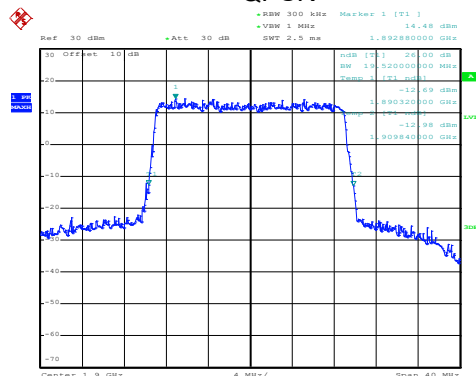
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:34:50

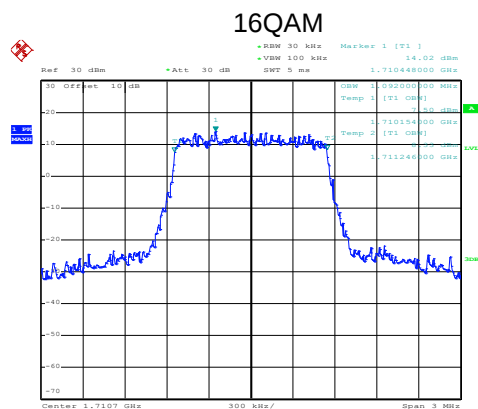
## QPSK



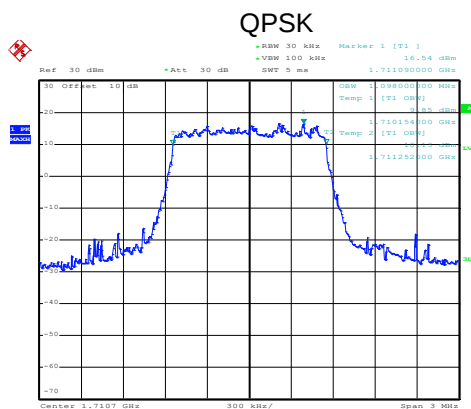
Date: 30.SEP.2020 22:34:46

## Highest channel

## LTE Band 4 part:

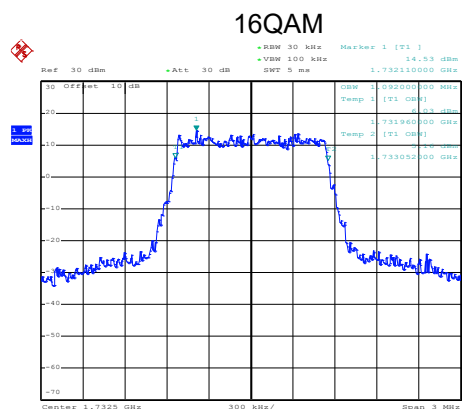
LTE Band 4: 99% Occupancy bandwidth  
BW: 1.4MHz

Date: 30.SEP.2020 22:11:52

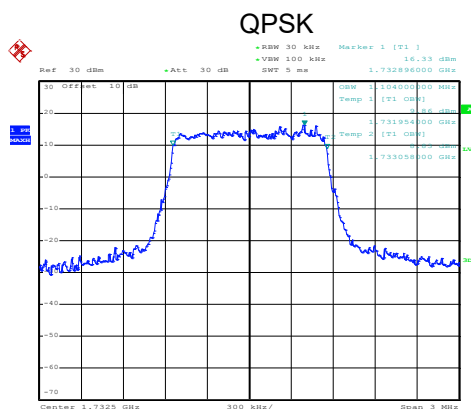


Date: 30.SEP.2020 22:11:49

## Lowest channel

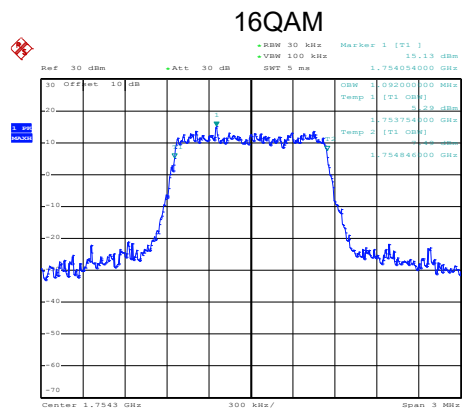


Date: 30.SEP.2020 22:12:33

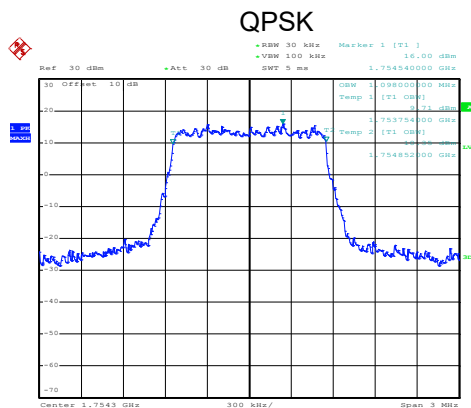


Date: 30.SEP.2020 22:12:30

## Middle channel



Date: 30.SEP.2020 22:12:46

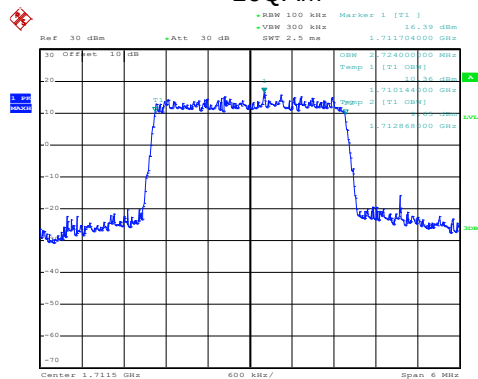


Date: 30.SEP.2020 22:12:43

## Highest channel

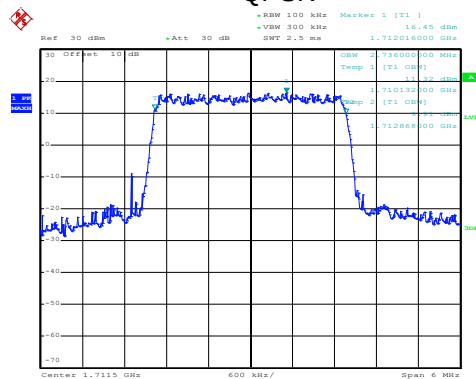
LTE Band 4: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 30.SEP.2020 22:13:44

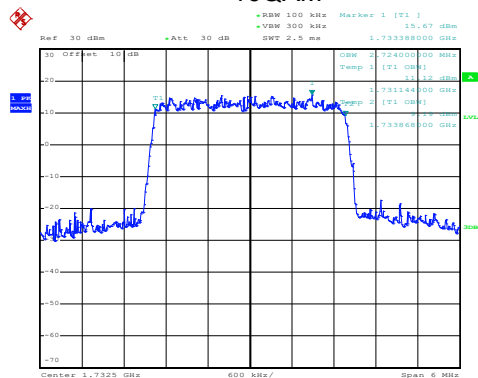
## QPSK



Date: 30.SEP.2020 22:13:41

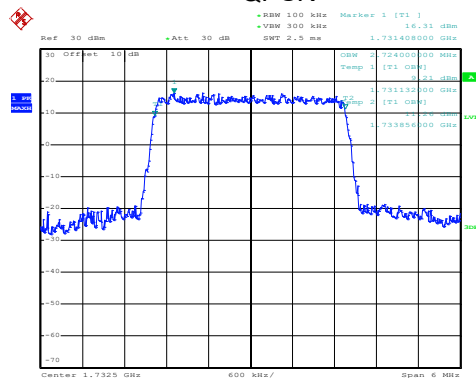
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:13:54

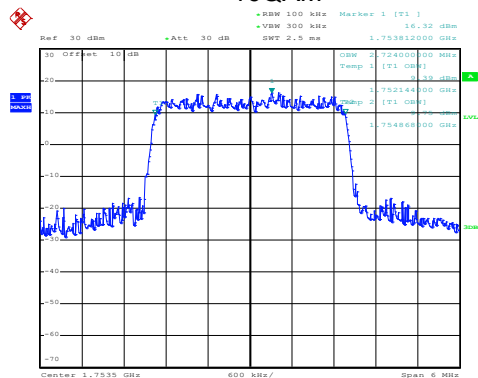
## QPSK



Date: 30.SEP.2020 22:13:51

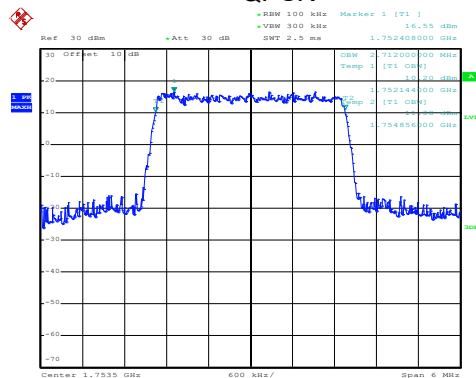
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:14:25

## QPSK

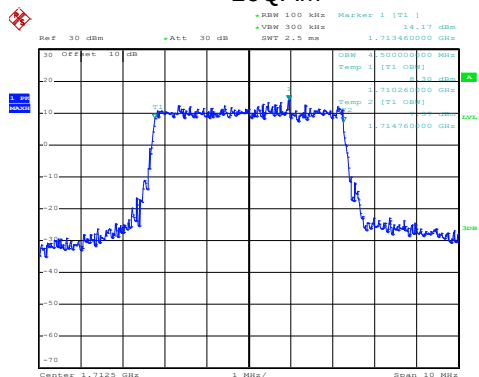


Date: 30.SEP.2020 22:14:21

## Highest channel

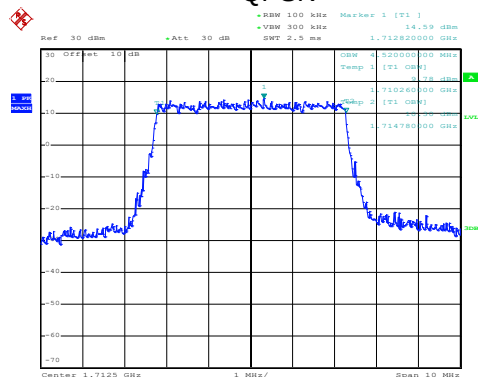
LTE Band 4: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:15:44

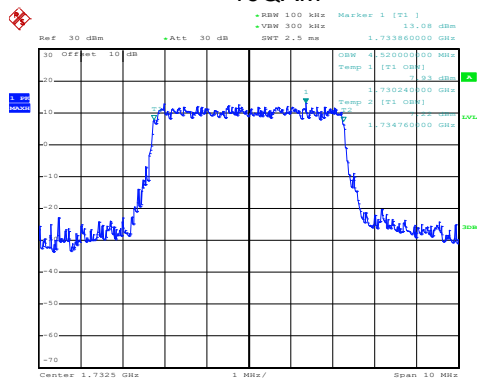
## QPSK



Date: 30.SEP.2020 22:15:41

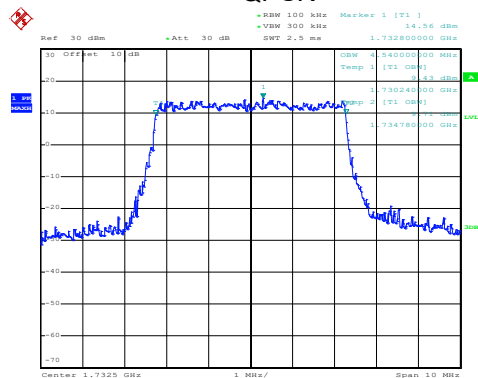
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:15:29

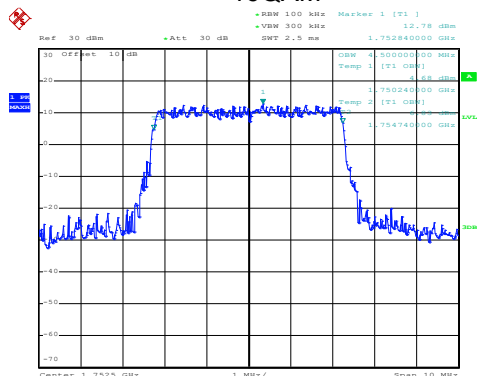
## QPSK



Date: 30.SEP.2020 22:15:26

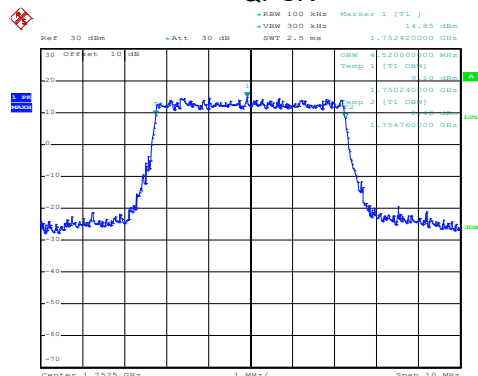
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:15:01

## QPSK



Date: 30.SEP.2020 22:14:58

## Highest channel

16QAM



Date: 30.SEP.2020 22:16:28

## 16QAM



Date: 30.SEP.2020 22:16:39

16QAM

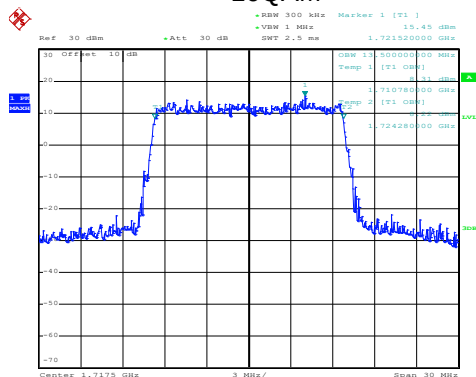


Date: 30.SEP.2020 22:17:16

## Page 55 of

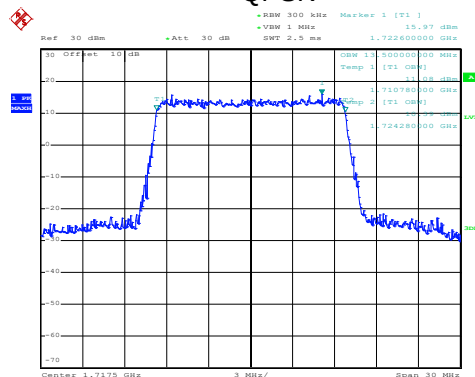
LTE Band 4: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:18:27

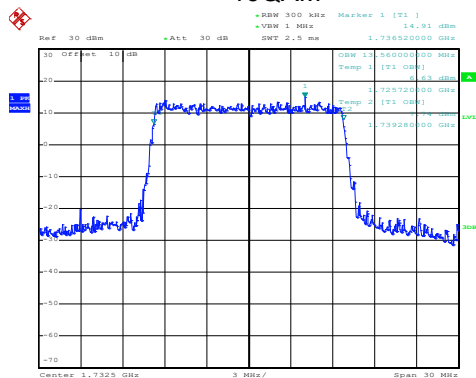
## QPSK



Date: 30.SEP.2020 22:18:24

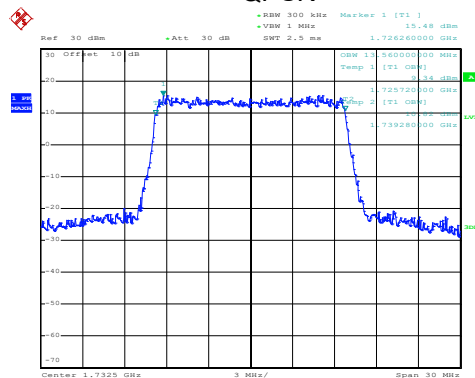
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:18:13

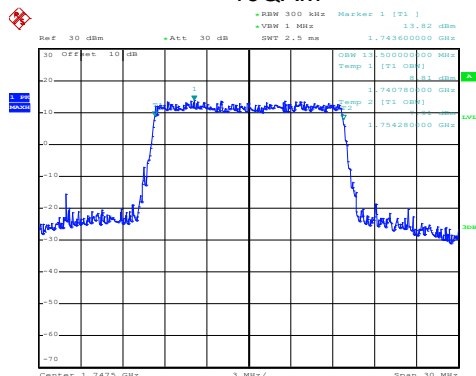
## QPSK



Date: 30.SEP.2020 22:18:10

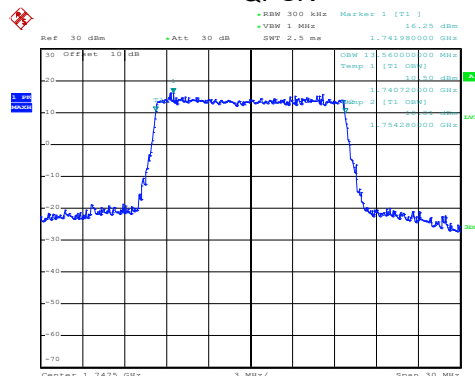
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:17:42

## QPSK

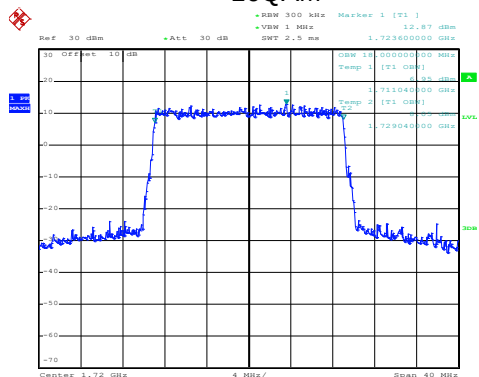


Date: 30.SEP.2020 22:17:38

## Highest channel

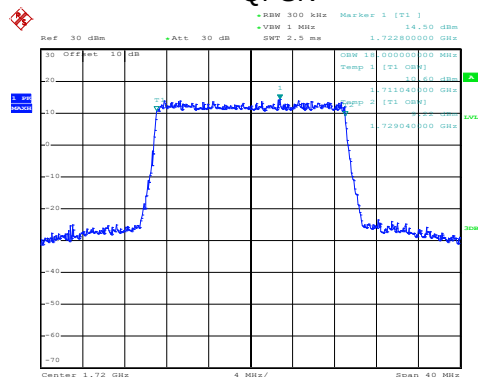
LTE Band 4: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 30.SEP.2020 22:19:09

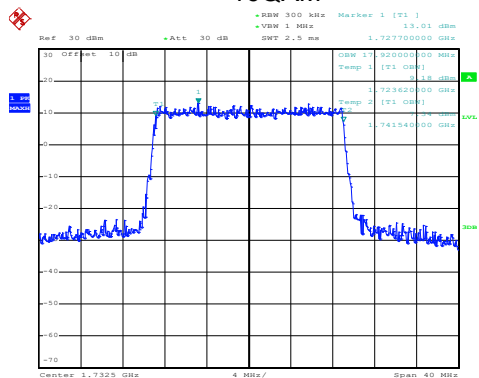
## QPSK



Date: 30.SEP.2020 22:19:06

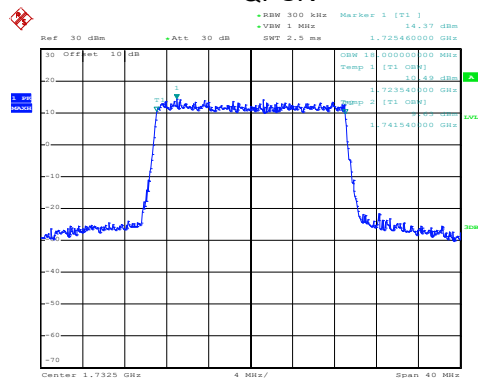
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:19:30

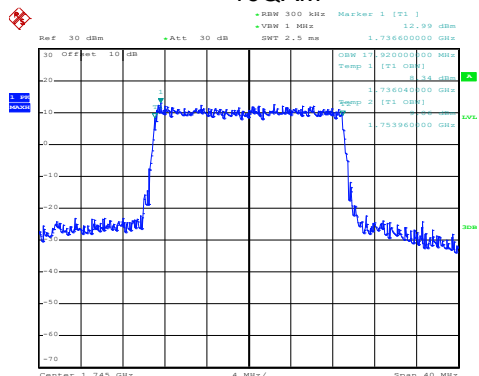
## QPSK



Date: 30.SEP.2020 22:19:27

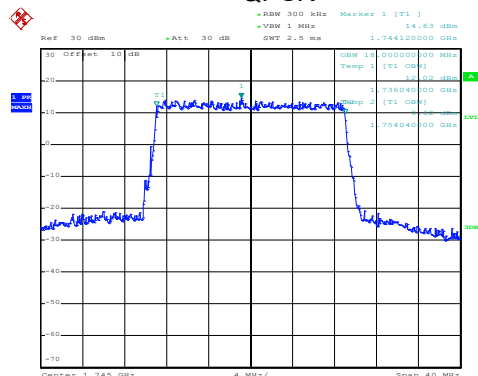
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:20:07

## QPSK



Date: 30.SEP.2020 22:20:04

## Highest channel

## 16QAM



QPSK



Lowest channel

## 16QAM



QPSK



Middle channel

## 16QAM



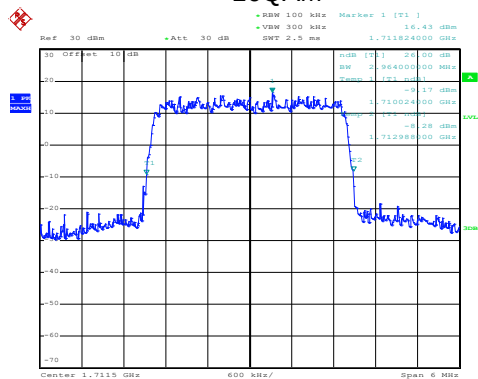
QPSK



## Highest channel

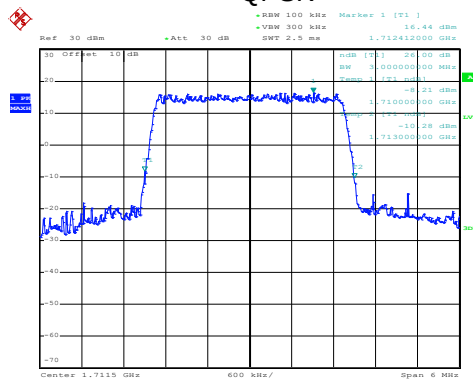
LTE Band 4: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 30.SEP.2020 22:13:35

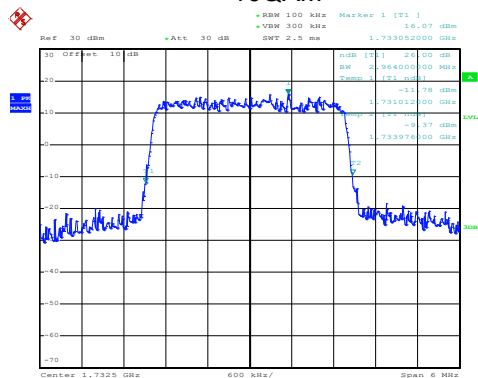
## QPSK



Date: 30.SEP.2020 22:13:32

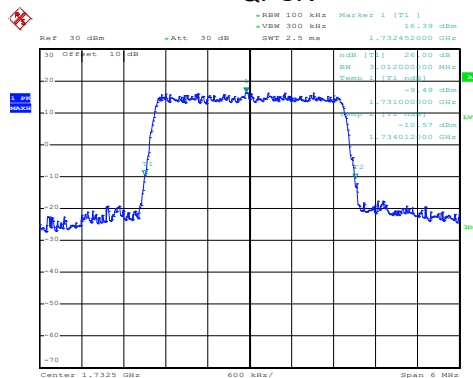
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:14:03

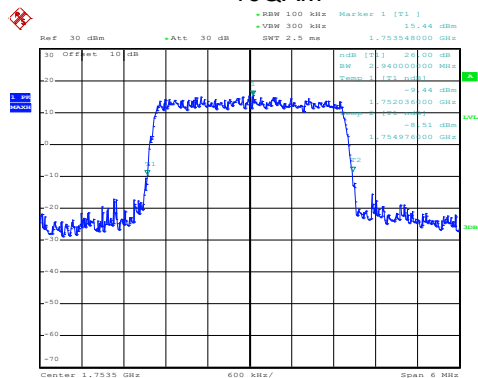
## QPSK



Date: 30.SEP.2020 22:14:00

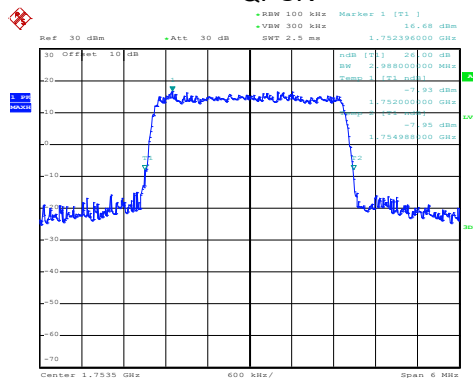
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:14:16

## QPSK

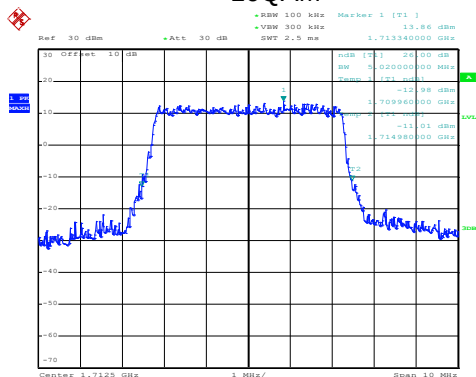


Date: 30.SEP.2020 22:14:13

## Highest channel

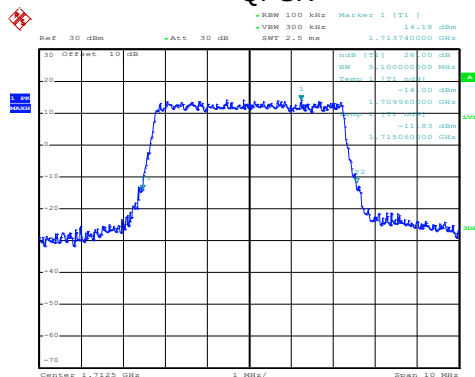
LTE Band 4: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:15:54

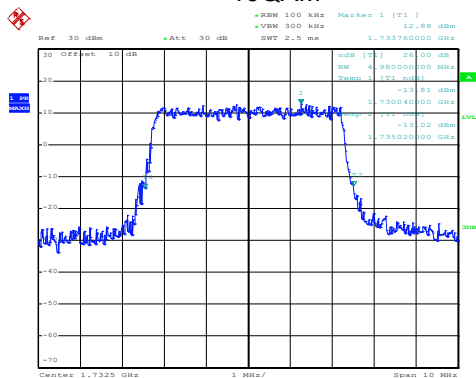
## QPSK



Date: 30.SEP.2020 22:15:50

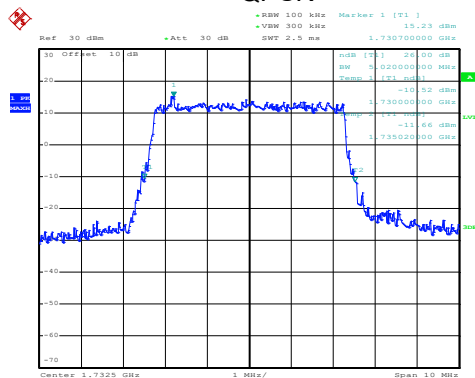
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:15:20

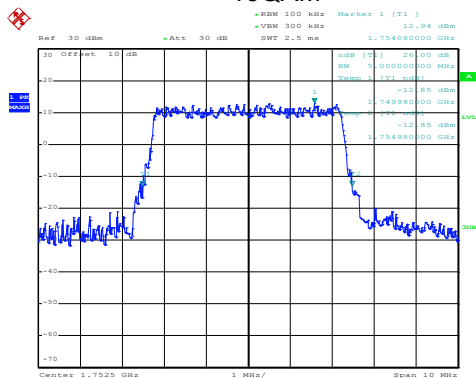
## QPSK



Date: 30.SEP.2020 22:15:17

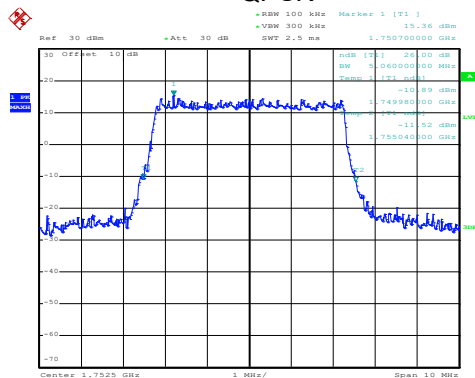
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:15:10

## QPSK

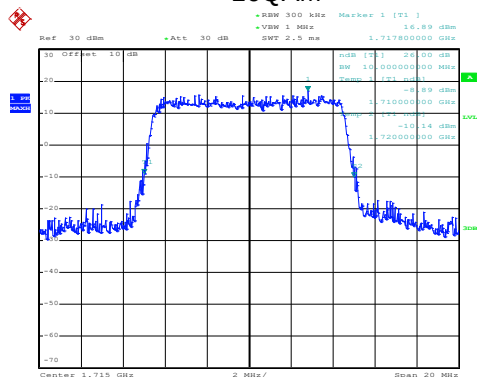


Date: 30.SEP.2020 22:15:06

## Highest channel

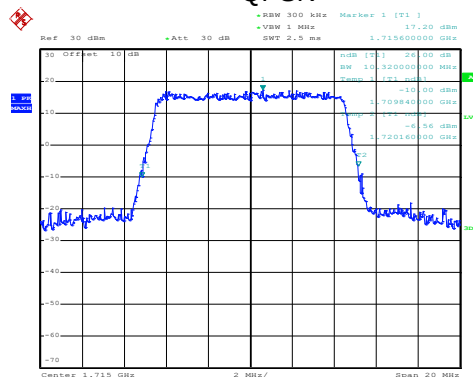
LTE Band 4: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 30.SEP.2020 22:16:23

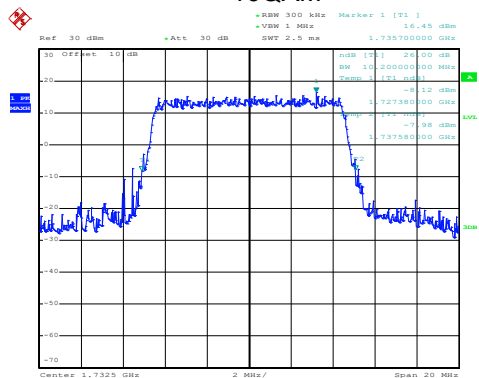
## QPSK



Date: 30.SEP.2020 22:16:20

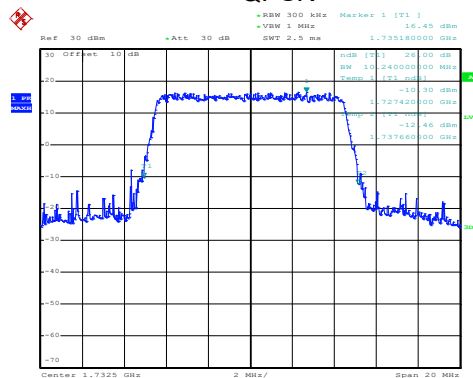
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:16:54

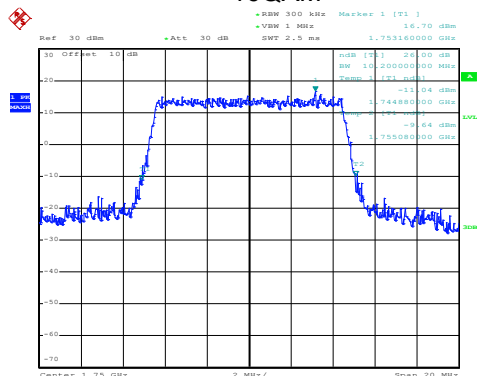
## QPSK



Date: 30.SEP.2020 22:16:48

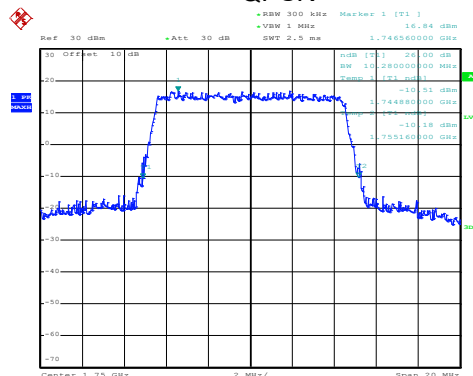
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:17:09

## QPSK

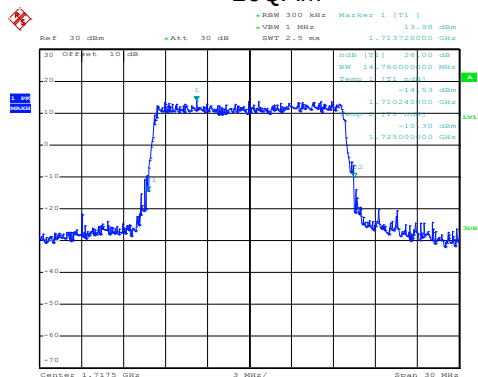


Date: 30.SEP.2020 22:17:06

## Highest channel

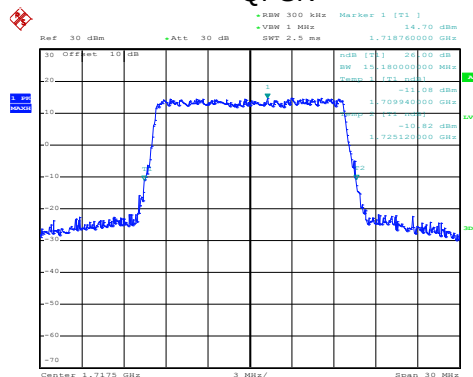
LTE Band 4: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:18:36

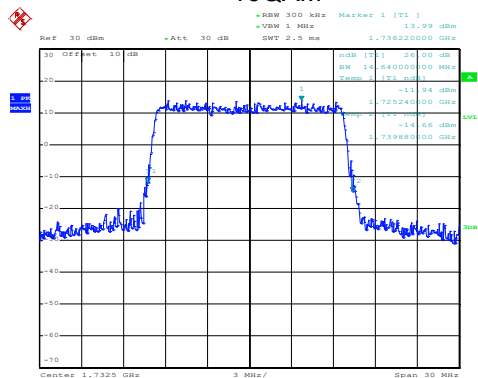
## QPSK



Date: 30.SEP.2020 22:18:33

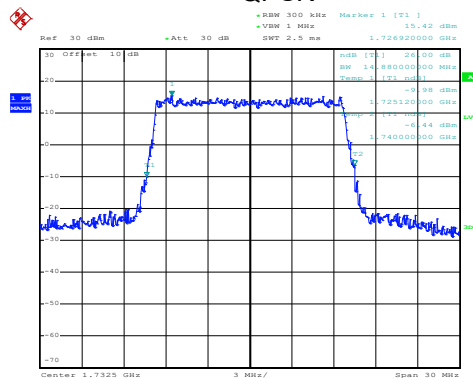
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:18:05

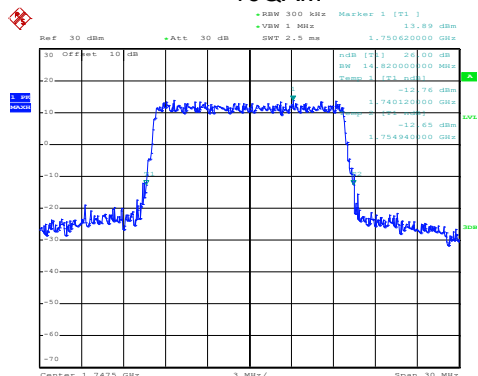
## QPSK



Date: 30.SEP.2020 22:18:02

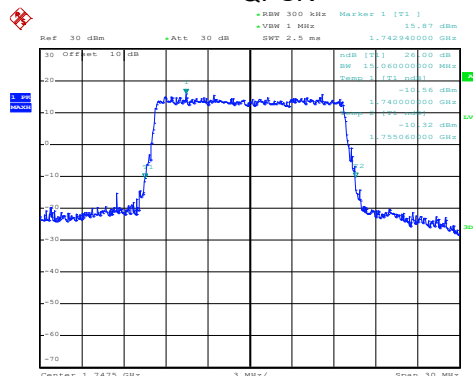
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:17:51

## QPSK

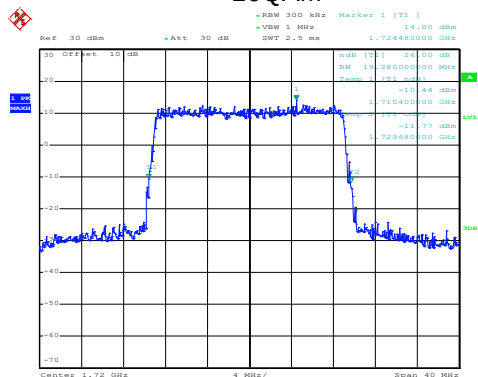


Date: 30.SEP.2020 22:17:48

## Highest channel

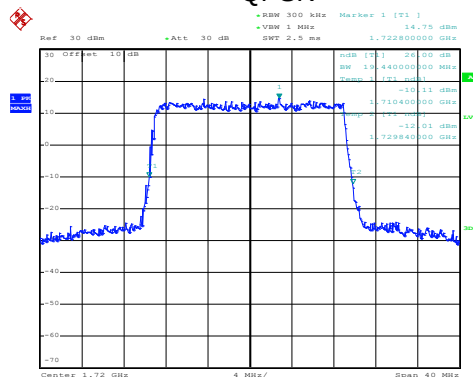
LTE Band 4: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 30.SEP.2020 22:19:01

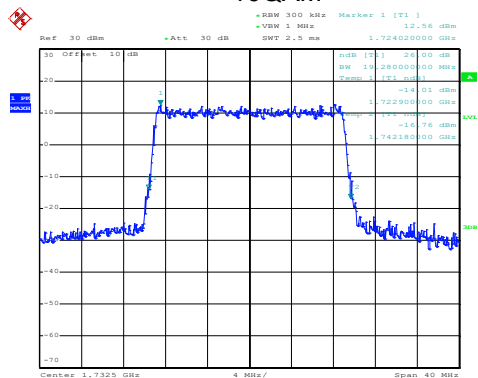
## QPSK



Date: 30.SEP.2020 22:18:58

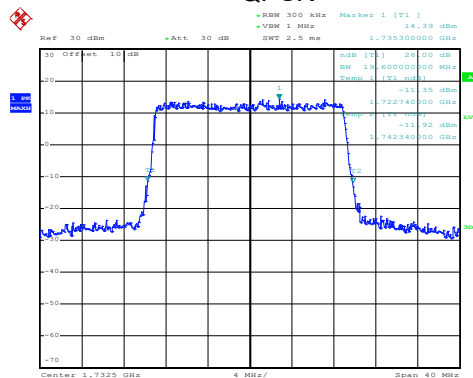
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:19:40

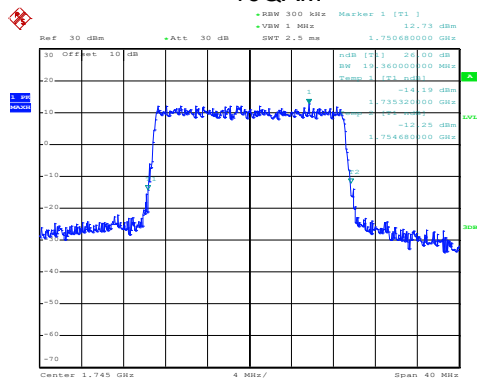
## QPSK



Date: 30.SEP.2020 22:19:36

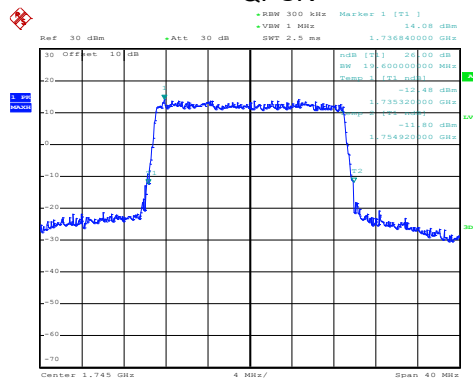
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:19:57

## QPSK



Date: 30.SEP.2020 22:19:54

## Highest channel

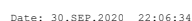
LTE Band 5: 99% Occupy bandwidth  
BW: 1.4MHz



Date: 30.SEP.2020 22:06:23



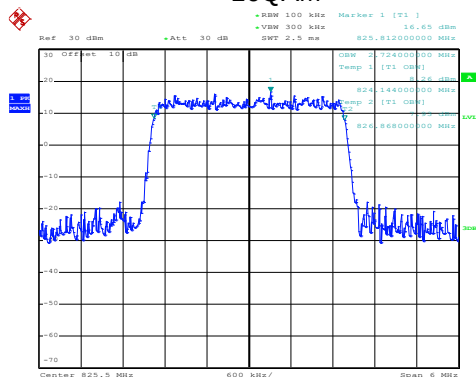
## Date: 30-SEP-2020 22:06:37



## Page 64 of

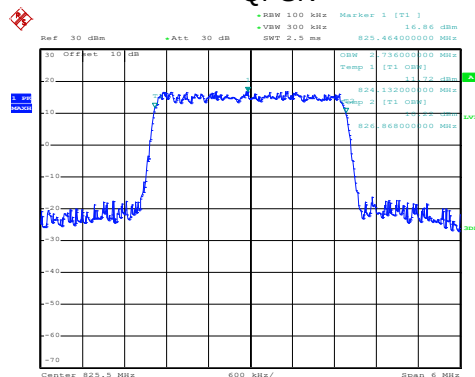
LTE Band 5: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 30.SEP.2020 22:07:23

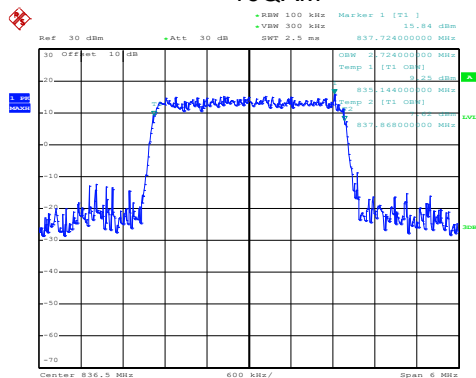
## QPSK



Date: 30.SEP.2020 22:07:20

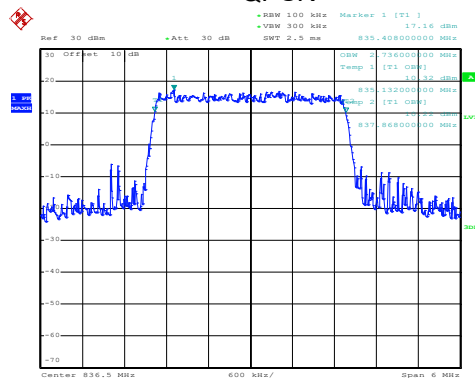
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:07:34

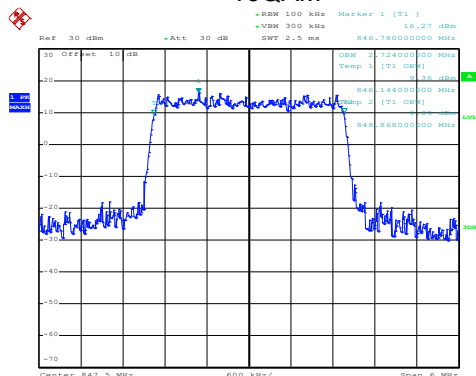
## QPSK



Date: 30.SEP.2020 22:07:31

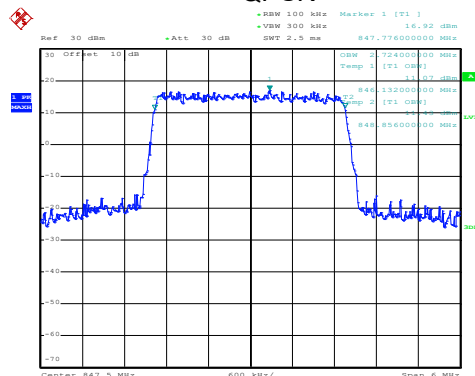
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:08:06

## QPSK

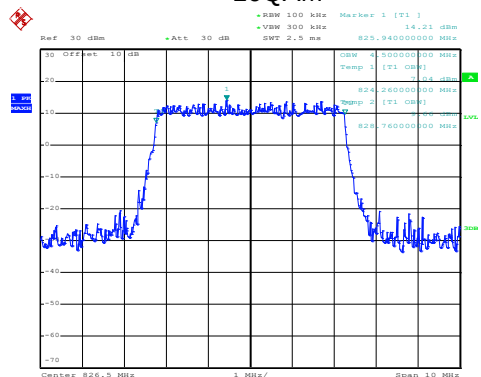


Date: 30.SEP.2020 22:08:03

## Highest channel

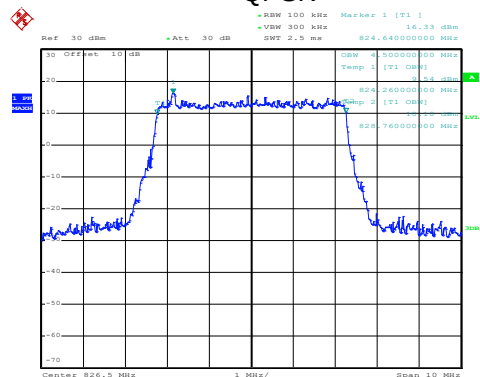
LTE Band 5: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:09:33

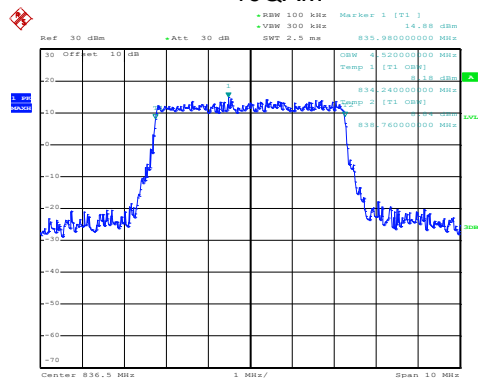
## QPSK



Date: 30.SEP.2020 22:09:30

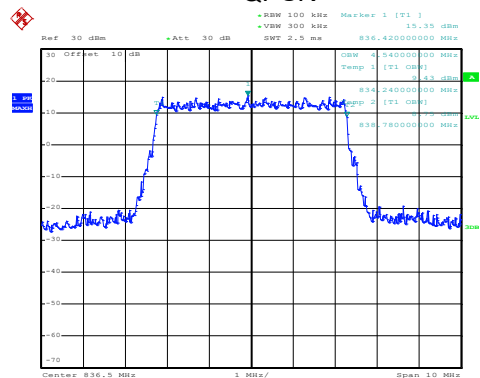
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:09:51

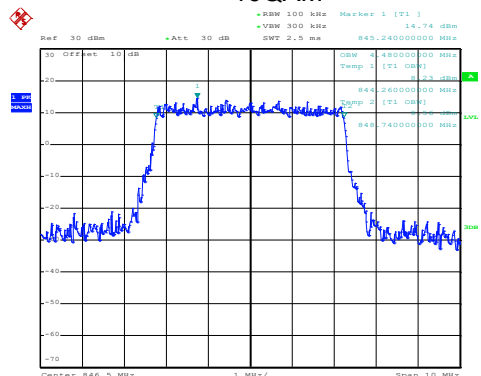
## QPSK



Date: 30.SEP.2020 22:09:44

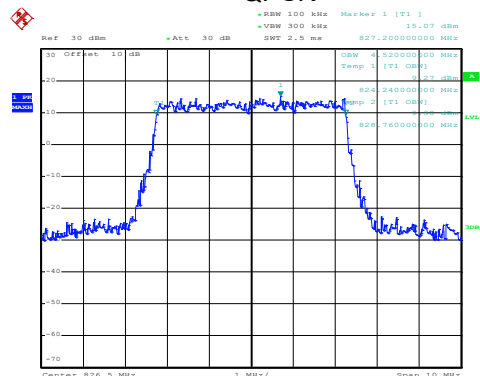
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:08:27

## QPSK



Date: 30.SEP.2020 22:09:07

## Highest channel

16QAM



## Date: 30.SEP.2020 22:10:34

## 16QAM



Date: 30.SEP.2020 22:10:45

16QAM

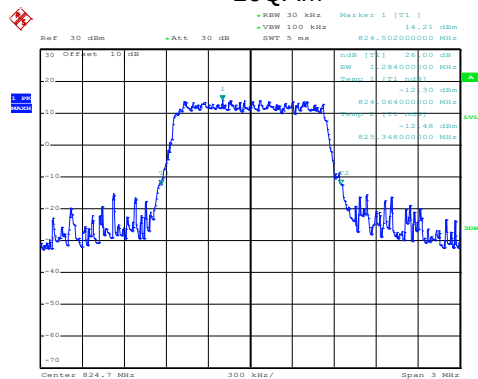


Date: 30.SEP.2020 22:11:19

## Page 67 of

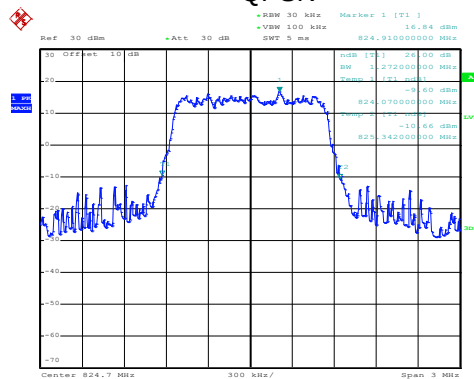
LTE Band 5: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 30.SEP.2020 22:06:04

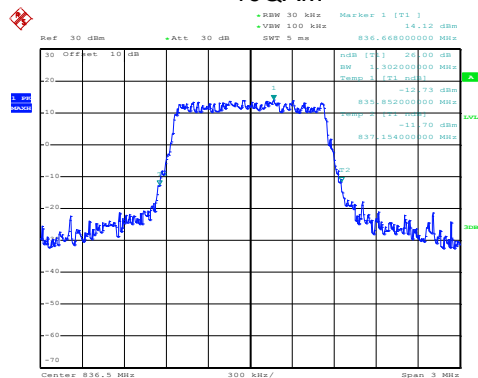
## QPSK



Date: 30.SEP.2020 22:06:00

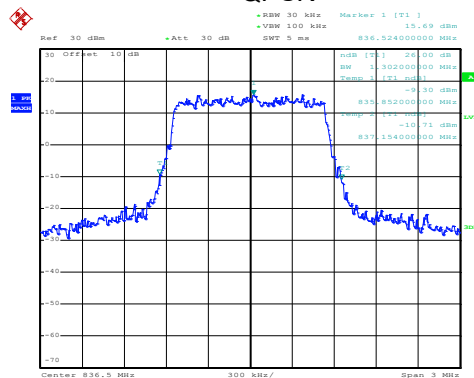
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:06:14

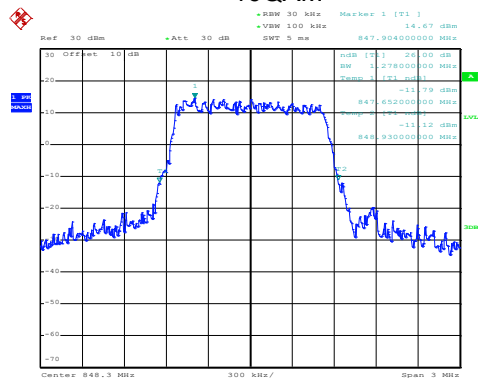
## QPSK



Date: 30.SEP.2020 22:06:11

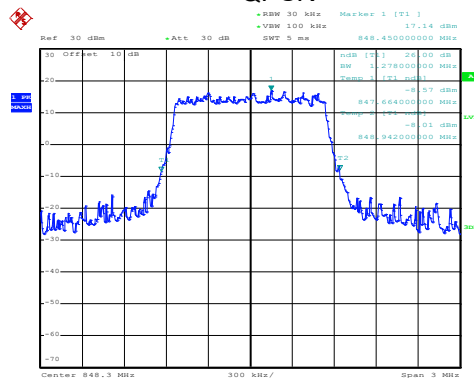
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:06:47

## QPSK



Date: 30.SEP.2020 22:06:44

## Highest channel

16QAM



QPSK



Lowest channel

## 16QAM



QPSK



Middle channel

## 16QAM



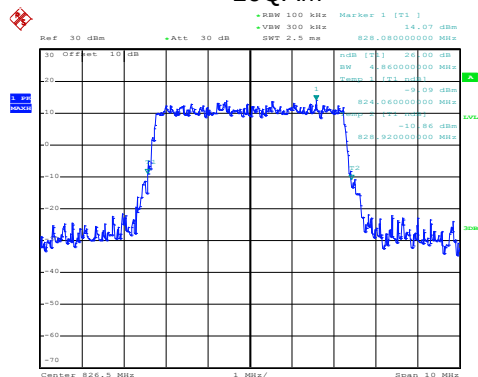
QPSK



## Highest channel

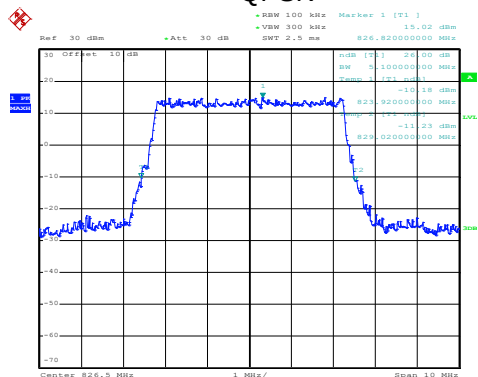
LTE Band 5: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 30.SEP.2020 22:09:22

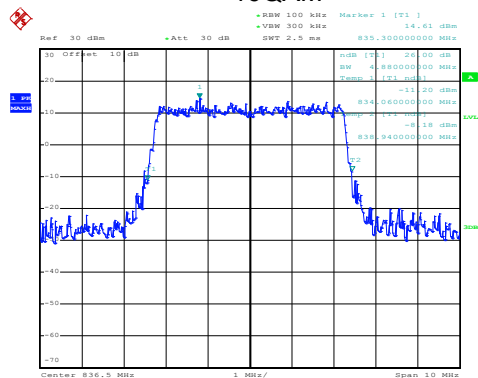
## QPSK



Date: 30.SEP.2020 22:09:19

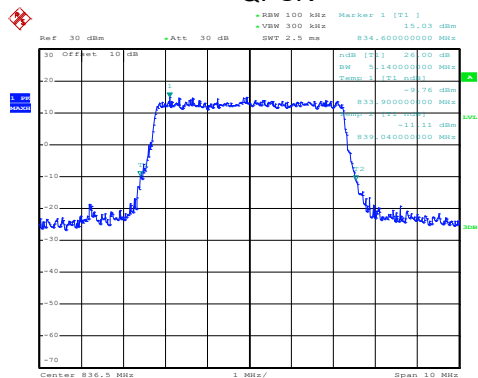
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:08:46

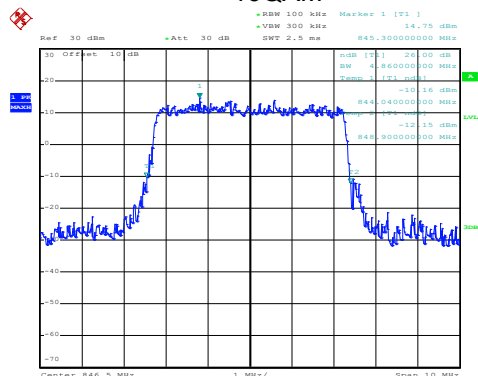
## QPSK



Date: 30.SEP.2020 22:09:59

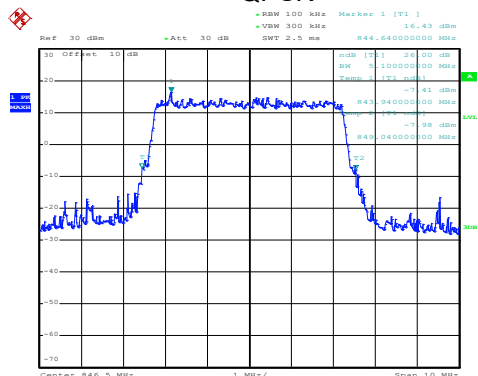
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:08:36

## QPSK

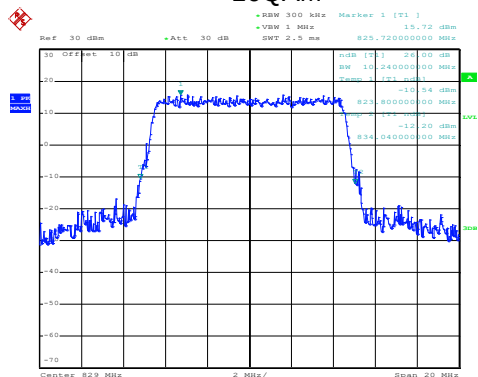


Date: 30.SEP.2020 22:08:33

## Highest channel

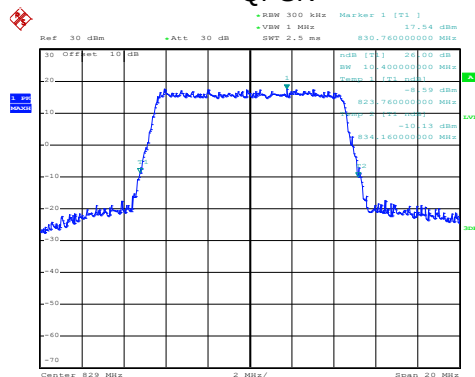
LTE Band 5: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 30.SEP.2020 22:10:28

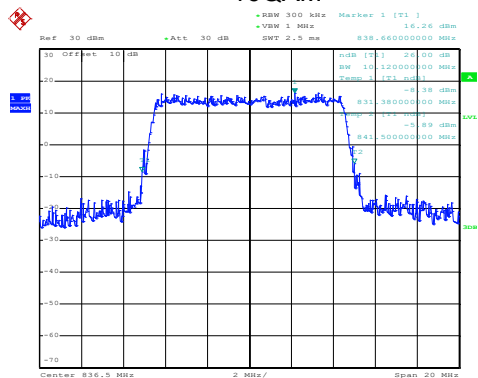
## QPSK



Date: 30.SEP.2020 22:10:25

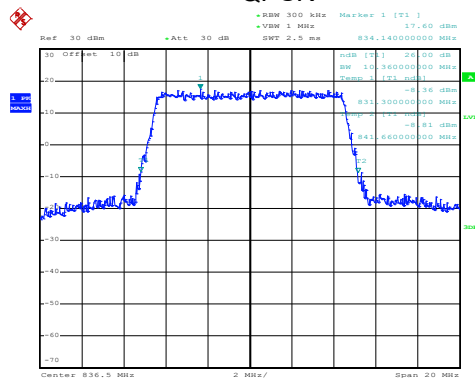
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:10:56

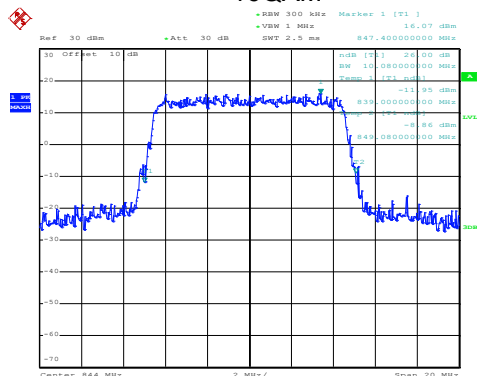
## QPSK



Date: 30.SEP.2020 22:10:53

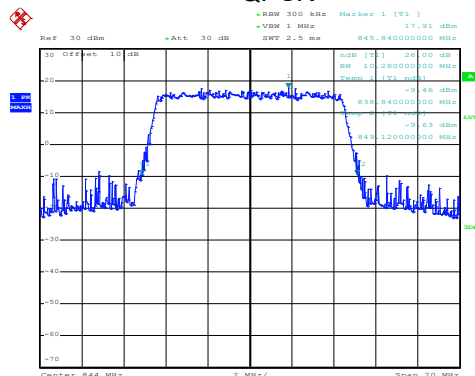
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:11:14

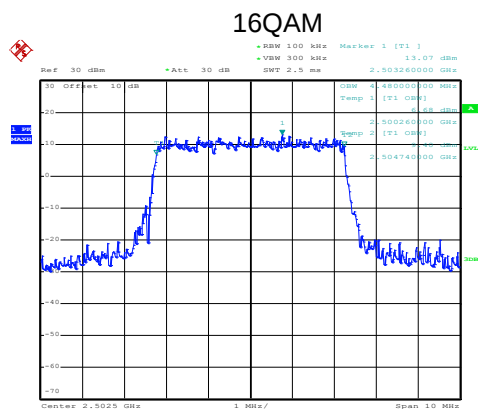
## QPSK



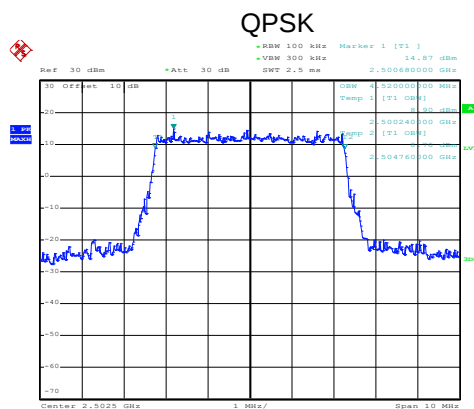
Date: 30.SEP.2020 22:11:11

## Highest channel

## LTE-Band 7 part:

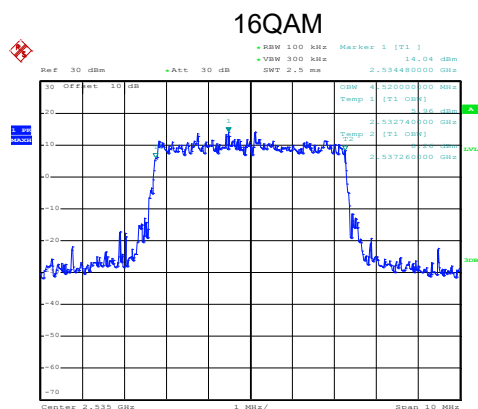
LTE Band 7: 99% Occupancy bandwidth  
BW: 5MHz

Date: 30.SEP.2020 22:24:51

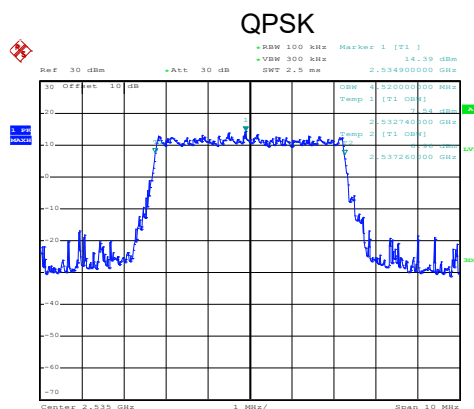


Date: 30.SEP.2020 22:24:48

## Lowest channel

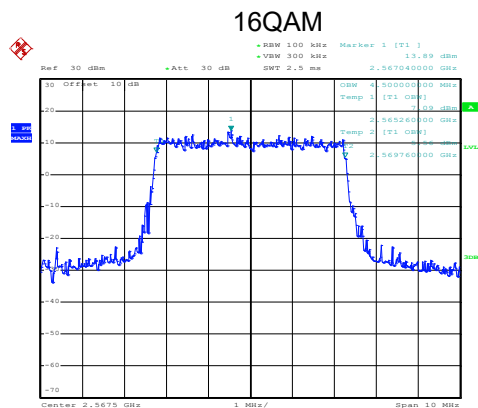


Date: 30.SEP.2020 22:25:02

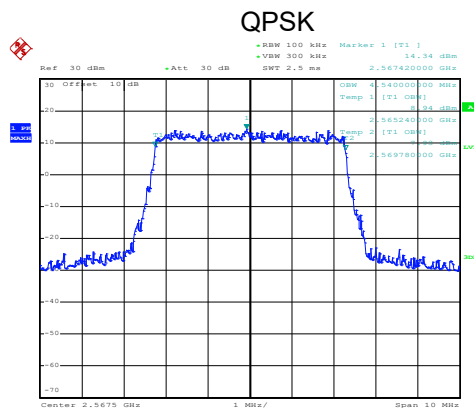


Date: 30.SEP.2020 22:24:59

## Middle channel



Date: 30.SEP.2020 22:25:33



Date: 30.SEP.2020 22:25:30

## Highest channel

16QAM



Date: 30.SEP.2020 22:24:03

## 16QAM



Date: 30.SEP.2020 22:23:34

16QAM

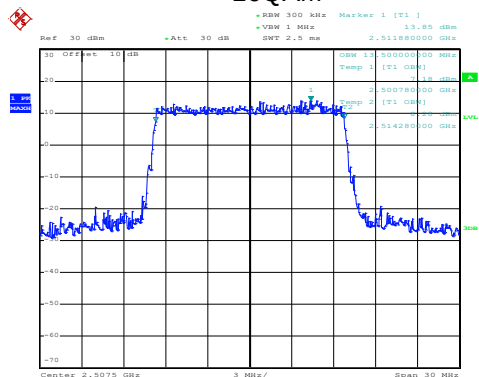


Date: 30.SEP.2020 22:23:00

## Page 73 of

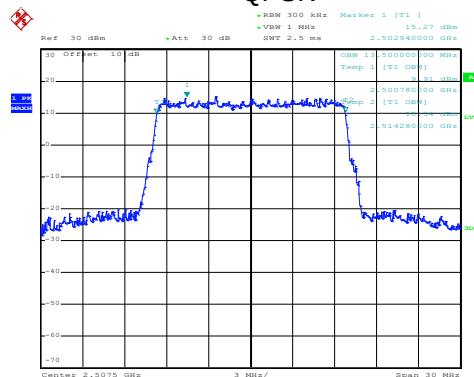
LTE Band 7: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:21:45

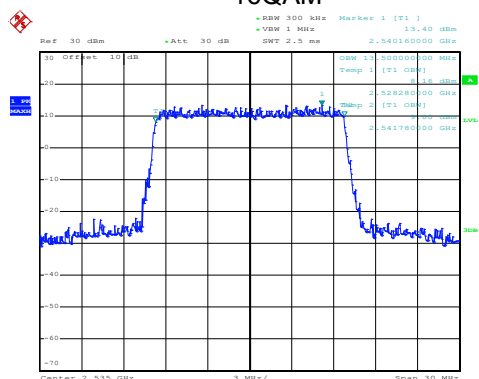
## QPSK



Date: 30.SEP.2020 22:21:42

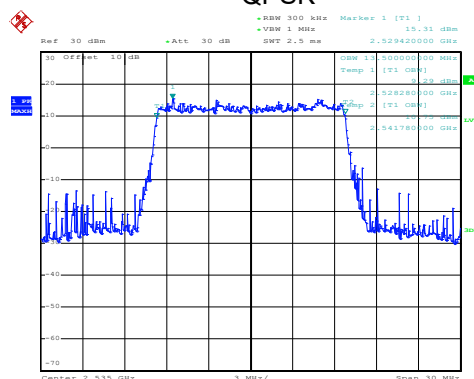
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:21:56

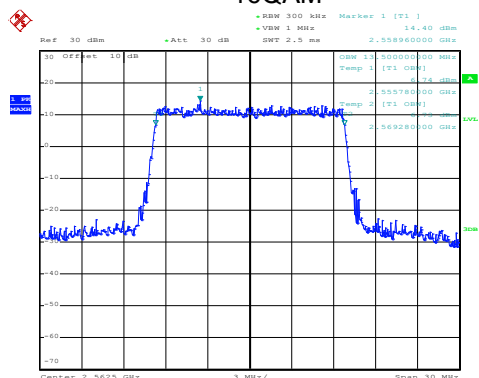
## QPSK



Date: 30.SEP.2020 22:21:53

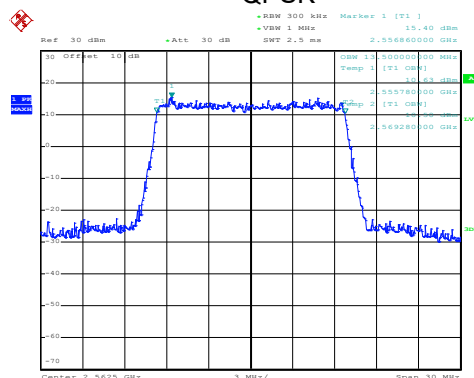
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:22:32

## QPSK

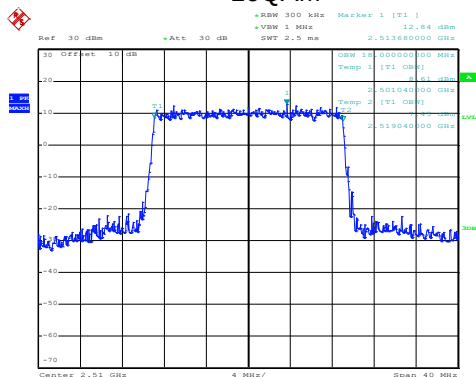


Date: 30.SEP.2020 22:22:29

## Highest channel

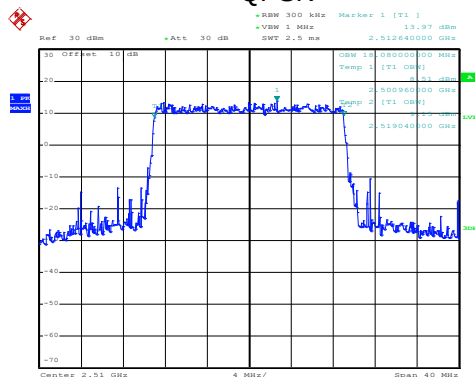
LTE Band 7: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 30.SEP.2020 22:21:04

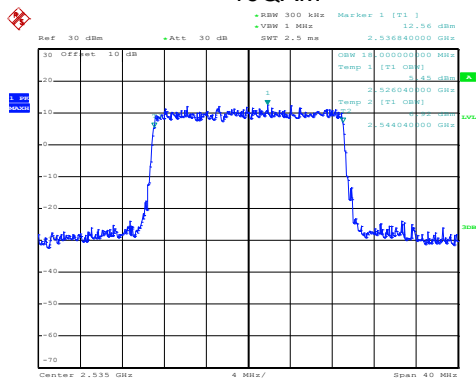
## QPSK



Date: 30.SEP.2020 22:21:01

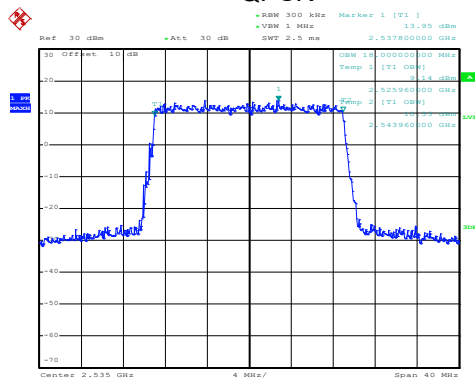
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:20:53

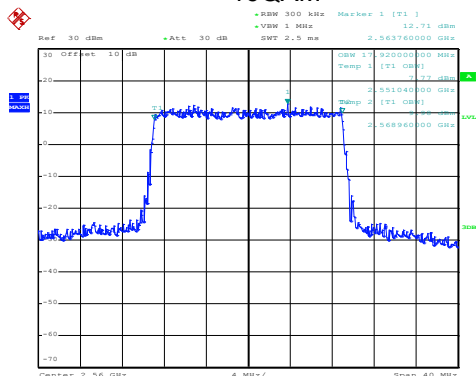
## QPSK



Date: 30.SEP.2020 22:20:50

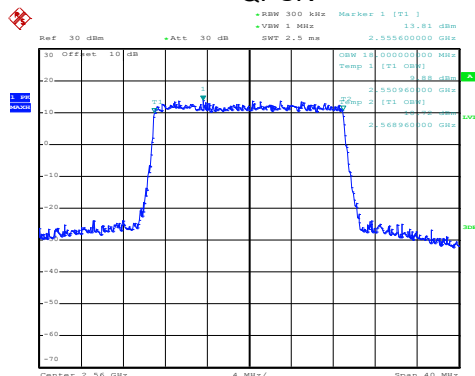
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:20:22

## QPSK



Date: 30.SEP.2020 22:20:18

## Highest channel

16QAM



Date: 30.SEP.2020 22:24:38

## 16QAM



Date: 30.SEP.2020 22:25:07

16QAM

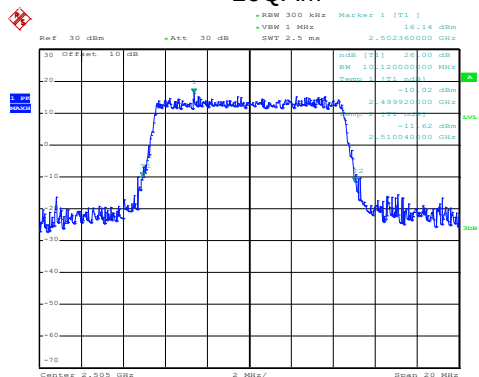


Date: 30.SEP.2020 22:25:20

## Page 76 of

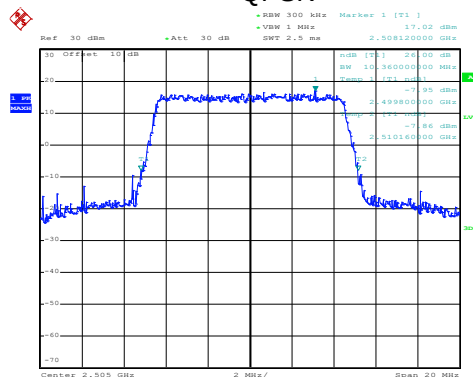
LTE Band 7: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 30.SEP.2020 22:24:17

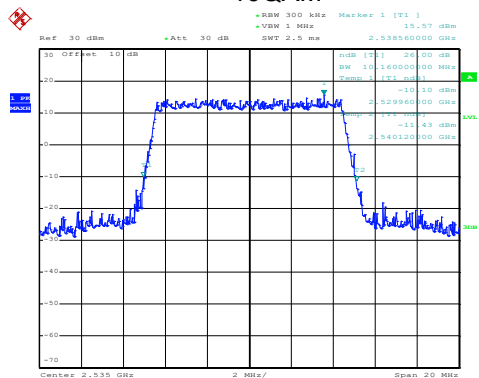
## QPSK



Date: 30.SEP.2020 22:24:14

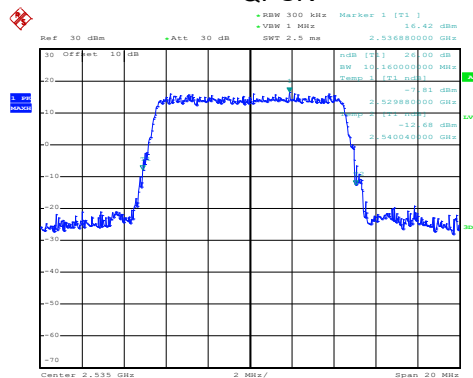
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:23:28

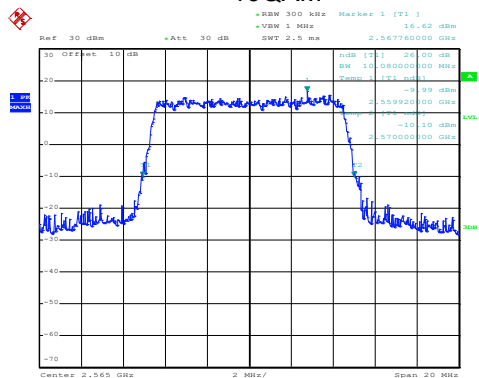
## QPSK



Date: 30.SEP.2020 22:23:25

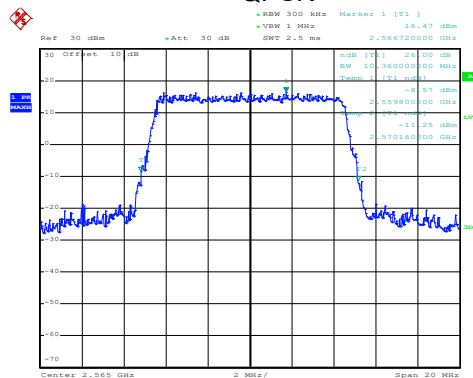
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:23:14

## QPSK

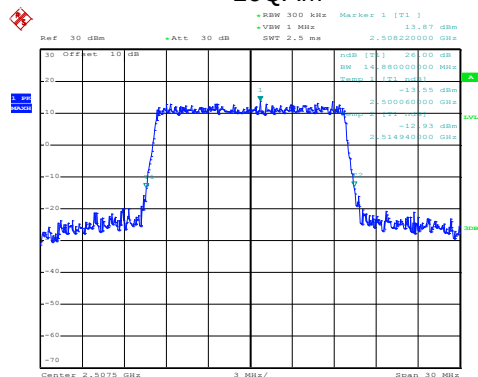


Date: 30.SEP.2020 22:23:11

## Highest channel

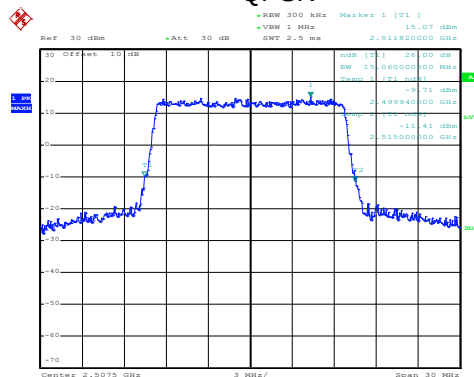
LTE Band 7: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 30.SEP.2020 22:21:36

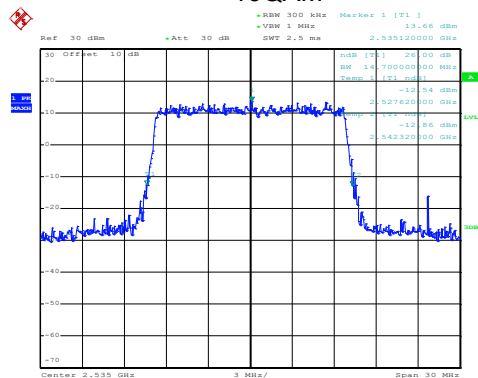
## QPSK



Date: 30.SEP.2020 22:21:33

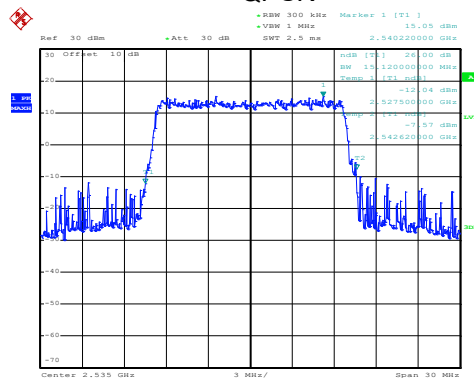
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:22:06

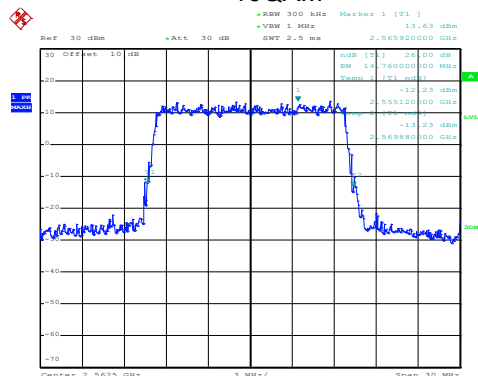
## QPSK



Date: 30.SEP.2020 22:22:02

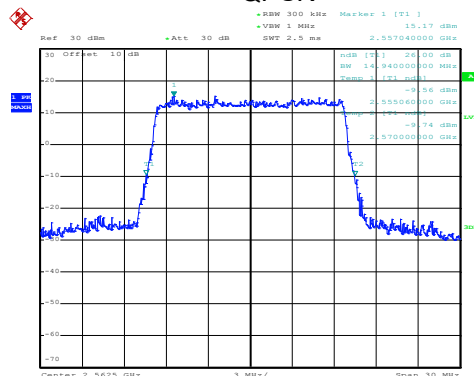
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:22:23

## QPSK

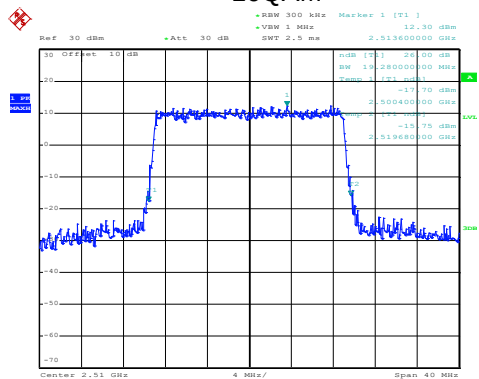


Date: 30.SEP.2020 22:22:20

## Highest channel

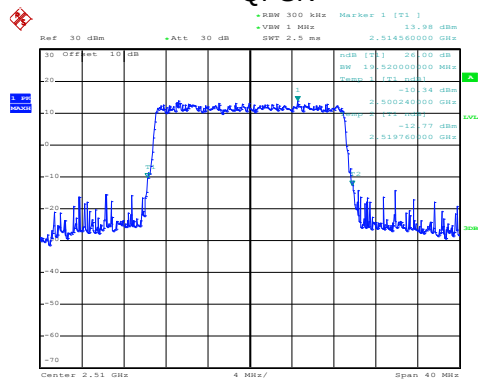
LTE Band 7: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 30.SEP.2020 22:21:14

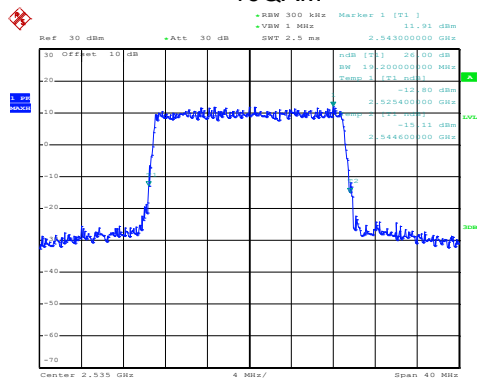
## QPSK



Date: 30.SEP.2020 22:21:10

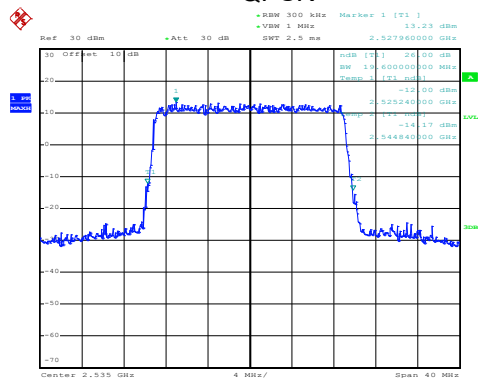
## Lowest channel

## 16QAM



Date: 30.SEP.2020 22:20:44

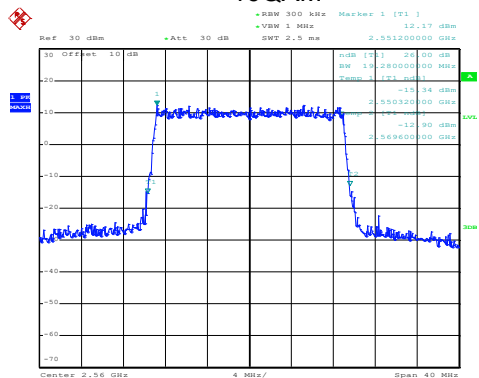
## QPSK



Date: 30.SEP.2020 22:20:41

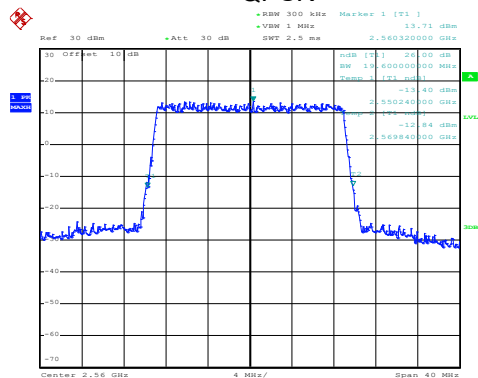
## Middle channel

## 16QAM



Date: 30.SEP.2020 22:20:31

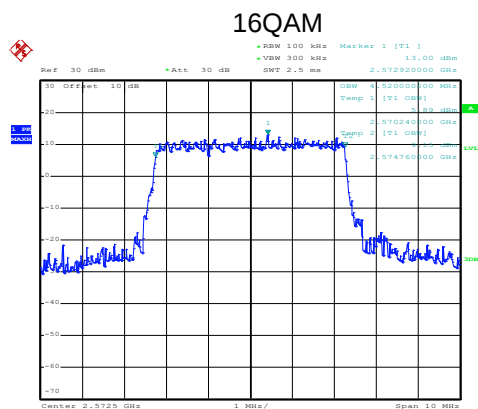
## QPSK



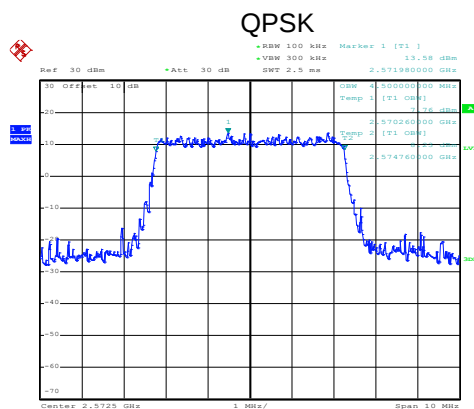
Date: 30.SEP.2020 22:20:28

## Highest channel

## LTE-Band 38 part:

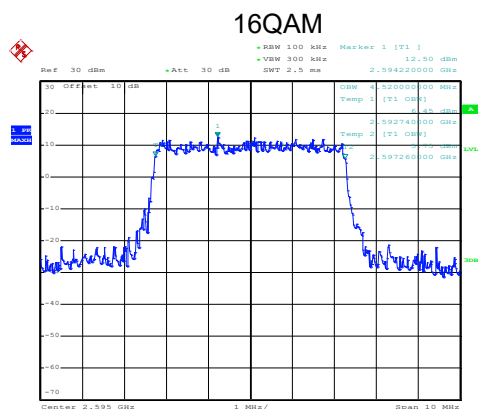
LTE Band 38: 99% Occupy bandwidth  
BW: 5MHz

Date: 30.SEP.2020 22:42:22

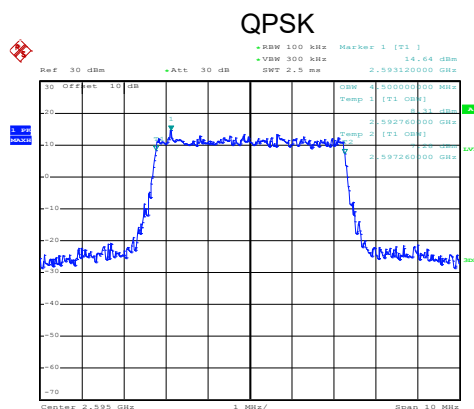


Date: 30.SEP.2020 22:42:17

## Lowest channel

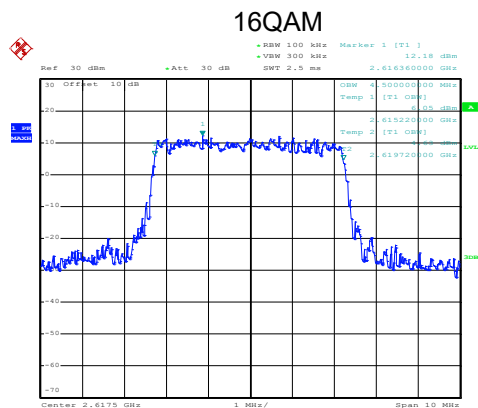


Date: 30.SEP.2020 22:43:06

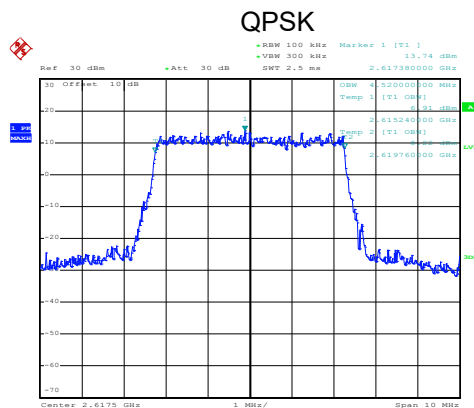


Date: 30.SEP.2020 22:43:01

## Middle channel



Date: 30.SEP.2020 22:43:25



Date: 30.SEP.2020 22:43:20

## Highest channel