

# **FCC REPORT**

## **(LTE)**

**Applicant:** INFINIX MOBILITY LIMITED

**Address of Applicant:** FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: X693

Trade mark: Infinix

**FCC ID:** 2AIZN-X693

**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:** 08 Jan., 2021

**Date of Test:** 09 Jan., to 20 Jan., 2021

**Date of report issued:** 21 Jan., 2021

**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 JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful, and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 2. Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 21 Jan., 2021 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

**Tested by:** Janet Wei **Date:** 21 Jan., 2021  
**Test Engineer**

**Reviewed by:** Winner Zhang **Date:** 21 Jan., 2021  
**Project Engineer**

### 3. Contents

Page

|           |                                                               |            |
|-----------|---------------------------------------------------------------|------------|
| <b>1.</b> | <b>COVER PAGE .....</b>                                       | <b>1</b>   |
| <b>2.</b> | <b>VERSION.....</b>                                           | <b>2</b>   |
| <b>3.</b> | <b>CONTENTS.....</b>                                          | <b>3</b>   |
| <b>4.</b> | <b>TEST SUMMARY .....</b>                                     | <b>4</b>   |
| <b>5.</b> | <b>GENERAL INFORMATION .....</b>                              | <b>5</b>   |
| 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         |
| <b>6.</b> | <b>TEST RESULTS.....</b>                                      | <b>14</b>  |
| 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        |
| <b>7</b>  | <b>TEST SETUP PHOTO.....</b>                                  | <b>169</b> |
| <b>8</b>  | <b>EUT CONSTRUCTIONAL DETAILS .....</b>                       | <b>170</b> |

## 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 2.1051<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 2.1053<br>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:    | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT                                           |
| Manufacturer: | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT                                           |
| 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.:                 | X693                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |
| 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: -0.5 dBi(declare by Applicant)<br>LTE Band 4: -0.7 dBi(declare by Applicant)<br>LTE Band 5: -1.5 dBi(declare by Applicant)<br>LTE Band 7: -0.4 dBi(declare by Applicant)<br>LTE Band 38: -0.4 dBi(declare by Applicant)<br>LTE Band 41: -0.4 dBi(declare by Applicant)                                                   |                                           |                                           |
| Power supply:              | Rechargeable Li-ion polymer Battery DC3.85V-4900mAh                                                                                                                                                                                                                                                                                  |                                           |                                           |
| AC adapter:                | Model: CQ-18LX<br>Input: AC100-240V, 50/60Hz, 0.6A<br>Output: DC 5.0V - 9.0V === 2.0A, 9.0V - 12.0V === 1.5A                                                                                                                                                                                                                         |                                           |                                           |
| 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 3.5Vdc, High 4.4Vdc               |
| 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. |                                                                  |
| Test Samples Plans:                                                                                                                                                                                                                                                                                                                                                              |                                                                  |
| Samples Number                                                                                                                                                                                                                                                                                                                                                                   | Used for Test Items                                              |
| 1#                                                                                                                                                                                                                                                                                                                                                                               | Conducted measurements test method                               |
| 1#                                                                                                                                                                                                                                                                                                                                                                               | Radiated measurements test method                                |
| 1#                                                                                                                                                                                                                                                                                                                                                                               | EUT constructional details                                       |
| Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.                                                                                                                                                                                                                |                                                                  |

### 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**

JianYan Testing Group Shenzhen 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 JianYan Testing Group Shenzhen 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

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

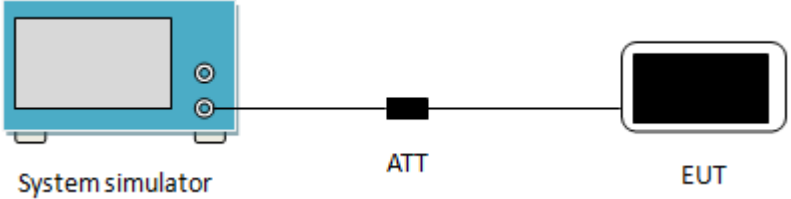
Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

## 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             | 11-18-2020           | 11-17-2021               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-05-2020           | 03-04-2021               |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-18-2020           | 11-17-2021               |
| 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                        | SUHLER          | SUCOFLEX100   | 58193/4PE          | 03-07-2020           | 03-06-2021               |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 09-25-2020           | 09-24-2021               |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 11-01-2020           | 11-31-2021               |
| 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>System simulator      ATT      EUT</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<br>(MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|--------------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                    |                     |         |           | 18607               | 18900     | 19193     |  |
|                                                              |                    |                     |         |           | 1850.7MHz           | 1880.0MHz | 1909.3MHz |  |
| 2                                                            | 1.4                | QPSK                | 1       | 0         | 23.41               | 23.45     | 23.52     |  |
|                                                              |                    |                     | 1       | 2         | 23.52               | 23.54     | 23.47     |  |
|                                                              |                    |                     | 1       | 5         | 23.54               | 23.54     | 23.63     |  |
|                                                              |                    |                     | 3       | 0         | 22.31               | 22.41     | 22.51     |  |
|                                                              |                    |                     | 3       | 1         | 22.35               | 22.54     | 22.31     |  |
|                                                              |                    |                     | 3       | 2         | 22.25               | 22.47     | 22.51     |  |
|                                                              |                    |                     | 6       | 0         | 22.16               | 22.38     | 22.14     |  |
|                                                              |                    | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                    | Max. EIRP (dBm):    |         |           |                     | 23.13     |           |  |
|                                                              |                    | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                    | 16QAM               | 1       | 0         | 22.41               | 22.49     | 22.24     |  |
|                                                              |                    |                     | 1       | 2         | 22.69               | 22.77     | 22.64     |  |
|                                                              |                    |                     | 1       | 5         | 22.43               | 22.55     | 22.32     |  |
|                                                              |                    |                     | 3       | 0         | 21.71               | 21.68     | 21.61     |  |
|                                                              |                    |                     | 3       | 1         | 21.66               | 21.58     | 21.56     |  |
|                                                              |                    |                     | 3       | 2         | 21.78               | 21.76     | 21.73     |  |
|                                                              |                    |                     | 6       | 0         | 21.48               | 21.56     | 21.37     |  |
| Antenna Gain (dBi):                                          |                    |                     |         | -0.5      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                    |                     |         | 22.27     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                    |                     |         | 33.00     |                     |           |           |  |
|                                                              |                    |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth<br>(MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                    |                     |         |           | 18615               | 18900     | 19185     |  |
|                                                              |                    |                     |         |           | 1851.5MHz           | 1880.0MHz | 1908.5MHz |  |
| 2                                                            | 3                  | QPSK                | 1       | 0         | 23.69               | 23.54     | 23.41     |  |
|                                                              |                    |                     | 1       | 7         | 23.41               | 23.46     | 23.25     |  |
|                                                              |                    |                     | 1       | 14        | 23.52               | 23.49     | 23.43     |  |
|                                                              |                    |                     | 8       | 0         | 22.61               | 22.73     | 22.52     |  |
|                                                              |                    |                     | 8       | 4         | 22.67               | 22.75     | 22.46     |  |
|                                                              |                    |                     | 8       | 7         | 22.56               | 22.51     | 22.53     |  |
|                                                              |                    |                     | 15      | 0         | 22.52               | 22.47     | 22.43     |  |
|                                                              |                    | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                    | Max. EIRP (dBm):    |         |           |                     | 23.19     |           |  |
|                                                              |                    | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                    | 16QAM               | 1       | 0         | 22.74               | 22.70     | 22.69     |  |
|                                                              |                    |                     | 1       | 7         | 22.53               | 22.62     | 22.47     |  |
|                                                              |                    |                     | 1       | 14        | 22.46               | 22.65     | 22.46     |  |
|                                                              |                    |                     | 8       | 0         | 21.68               | 21.39     | 21.45     |  |
|                                                              |                    |                     | 8       | 4         | 21.53               | 21.43     | 21.52     |  |
|                                                              |                    |                     | 8       | 7         | 21.41               | 21.49     | 21.41     |  |
|                                                              |                    |                     | 15      | 0         | 21.36               | 21.31     | 21.25     |  |
| Antenna Gain (dBi):                                          |                    |                     |         | -0.5      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                    |                     |         | 22.24     |                     |           |           |  |
| 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         | 23.41               | 23.45     | 23.52     |  |
|                                                              |                 |                     | 1       | 12        | 23.32               | 23.34     | 23.41     |  |
|                                                              |                 |                     | 1       | 24        | 23.58               | 23.48     | 23.22     |  |
|                                                              |                 |                     | 12      | 0         | 22.41               | 22.55     | 22.53     |  |
|                                                              |                 |                     | 12      | 6         | 22.36               | 22.43     | 22.41     |  |
|                                                              |                 |                     | 12      | 11        | 22.41               | 22.46     | 22.16     |  |
|                                                              |                 |                     | 25      | 0         | 22.16               | 22.44     | 22.24     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.08     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.52               | 22.75     | 22.69     |  |
|                                                              |                 |                     | 1       | 12        | 22.41               | 22.49     | 22.53     |  |
|                                                              |                 |                     | 1       | 24        | 22.63               | 22.64     | 22.41     |  |
|                                                              |                 |                     | 12      | 0         | 21.46               | 21.35     | 21.32     |  |
|                                                              |                 |                     | 12      | 6         | 21.53               | 21.48     | 21.42     |  |
|                                                              |                 |                     | 12      | 11        | 21.36               | 21.33     | 21.45     |  |
|                                                              |                 |                     | 25      | 0         | 21.31               | 21.36     | 21.23     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.25     |           |  |
|                                                              |                 | 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         | 23.52               | 23.45     | 23.42     |  |
|                                                              |                 |                     | 1       | 24        | 23.41               | 23.44     | 23.36     |  |
|                                                              |                 |                     | 1       | 49        | 23.26               | 23.39     | 23.26     |  |
|                                                              |                 |                     | 25      | 0         | 22.60               | 22.49     | 22.61     |  |
|                                                              |                 |                     | 25      | 12        | 22.51               | 22.63     | 22.56     |  |
|                                                              |                 |                     | 25      | 24        | 22.56               | 22.49     | 22.55     |  |
|                                                              |                 |                     | 50      | 0         | 22.42               | 22.41     | 22.39     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.02     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.83               | 22.92     | 22.84     |  |
|                                                              |                 |                     | 1       | 24        | 22.41               | 22.26     | 22.31     |  |
|                                                              |                 |                     | 1       | 49        | 22.52               | 22.38     | 22.34     |  |
|                                                              |                 |                     | 25      | 0         | 21.46               | 21.51     | 21.43     |  |
|                                                              |                 |                     | 25      | 12        | 21.31               | 21.44     | 21.34     |  |
|                                                              |                 |                     | 25      | 24        | 21.53               | 21.41     | 21.43     |  |
|                                                              |                 |                     | 50      | 0         | 21.22               | 21.18     | 21.16     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.42     |           |  |
|                                                              |                 | 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         | 23.41               | 23.44     | 23.54     |  |
|                                                              |                 |                     | 1       | 37        | 23.36               | 23.35     | 23.41     |  |
|                                                              |                 |                     | 1       | 74        | 23.25               | 23.32     | 23.16     |  |
|                                                              |                 |                     | 36      | 0         | 22.51               | 22.47     | 22.63     |  |
|                                                              |                 |                     | 36      | 16        | 22.41               | 22.51     | 22.46     |  |
|                                                              |                 |                     | 36      | 35        | 22.36               | 22.49     | 22.37     |  |
|                                                              |                 |                     | 75      | 0         | 22.39               | 22.35     | 22.41     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.04     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.41               | 22.56     | 22.41     |  |
|                                                              |                 |                     | 1       | 37        | 22.63               | 22.18     | 22.62     |  |
|                                                              |                 |                     | 1       | 74        | 22.14               | 22.23     | 22.21     |  |
|                                                              |                 |                     | 36      | 0         | 21.32               | 21.33     | 21.31     |  |
|                                                              |                 |                     | 36      | 16        | 21.23               | 21.22     | 21.21     |  |
|                                                              |                 |                     | 36      | 35        | 21.15               | 21.19     | 21.16     |  |
|                                                              |                 |                     | 75      | 0         | 21.12               | 21.14     | 21.23     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.13     |           |  |
|                                                              |                 | 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         | 23.32               | 23.38     | 23.61     |  |
|                                                              |                 |                     | 1       | 49        | 23.56               | 23.45     | 23.42     |  |
|                                                              |                 |                     | 1       | 99        | 23.43               | 23.37     | 23.33     |  |
|                                                              |                 |                     | 50      | 0         | 22.15               | 22.27     | 22.16     |  |
|                                                              |                 |                     | 50      | 24        | 22.21               | 22.31     | 22.14     |  |
|                                                              |                 |                     | 50      | 49        | 22.23               | 22.29     | 22.11     |  |
|                                                              |                 |                     | 100     | 0         | 22.08               | 22.11     | 22.15     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.11     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.21               | 22.36     | 22.14     |  |
|                                                              |                 |                     | 1       | 49        | 22.16               | 22.28     | 22.15     |  |
|                                                              |                 |                     | 1       | 99        | 22.31               | 22.24     | 22.31     |  |
|                                                              |                 |                     | 50      | 0         | 21.16               | 21.33     | 21.21     |  |
|                                                              |                 |                     | 50      | 24        | 21.20               | 21.17     | 21.11     |  |
|                                                              |                 |                     | 50      | 49        | 21.16               | 21.24     | 21.06     |  |
|                                                              |                 |                     | 100     | 0         | 21.12               | 21.05     | 21.15     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.86     |           |  |
|                                                              |                 | 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         | 23.06               | 23.12     | 23.14     |  |
|                                                              |                 |                     | 1       | 2         | 23.41               | 23.33     | 23.31     |  |
|                                                              |                 |                     | 1       | 5         | 23.03               | 23.10     | 23.06     |  |
|                                                              |                 |                     | 3       | 0         | 22.35               | 22.45     | 22.44     |  |
|                                                              |                 |                     | 3       | 1         | 22.31               | 22.40     | 22.35     |  |
|                                                              |                 |                     | 3       | 2         | 22.29               | 22.41     | 22.42     |  |
|                                                              |                 |                     | 6       | 0         | 22.26               | 22.29     | 22.21     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.71     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.51               | 22.59     | 22.54     |  |
|                                                              |                 |                     | 1       | 2         | 22.41               | 22.64     | 22.63     |  |
|                                                              |                 |                     | 1       | 5         | 22.36               | 22.32     | 22.41     |  |
|                                                              |                 |                     | 3       | 0         | 21.58               | 21.48     | 21.63     |  |
|                                                              |                 |                     | 3       | 1         | 21.43               | 21.51     | 21.51     |  |
|                                                              |                 |                     | 3       | 2         | 21.51               | 21.66     | 21.61     |  |
|                                                              |                 |                     | 6       | 0         | 21.29               | 21.37     | 21.38     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.94     |           |  |
| 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         | 23.16               | 23.25     | 23.24     |  |
|                                                              |                 |                     | 1       | 7         | 23.15               | 23.22     | 23.16     |  |
|                                                              |                 |                     | 1       | 14        | 23.24               | 23.24     | 23.26     |  |
|                                                              |                 |                     | 8       | 0         | 22.24               | 22.46     | 22.33     |  |
|                                                              |                 |                     | 8       | 4         | 22.46               | 22.48     | 22.25     |  |
|                                                              |                 |                     | 8       | 7         | 22.34               | 22.36     | 22.41     |  |
|                                                              |                 |                     | 15      | 0         | 22.28               | 22.30     | 22.15     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.56     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.34               | 22.39     | 22.31     |  |
|                                                              |                 |                     | 1       | 7         | 22.41               | 22.41     | 22.15     |  |
|                                                              |                 |                     | 1       | 14        | 22.31               | 22.33     | 22.36     |  |
|                                                              |                 |                     | 8       | 0         | 21.31               | 21.37     | 21.41     |  |
|                                                              |                 |                     | 8       | 4         | 21.35               | 21.29     | 21.26     |  |
|                                                              |                 |                     | 8       | 7         | 21.34               | 21.22     | 21.33     |  |
|                                                              |                 |                     | 15      | 0         | 21.08               | 21.20     | 21.23     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.71     |           |  |
| 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         | 23.51               | 23.26     | 23.24     |  |
|                                                              |                 |                     | 1       | 12        | 23.41               | 23.13     | 23.15     |  |
|                                                              |                 |                     | 1       | 24        | 23.38               | 23.25     | 23.31     |  |
|                                                              |                 |                     | 12      | 0         | 22.15               | 22.33     | 22.24     |  |
|                                                              |                 |                     | 12      | 6         | 22.32               | 22.29     | 22.31     |  |
|                                                              |                 |                     | 12      | 11        | 22.41               | 22.22     | 22.15     |  |
|                                                              |                 |                     | 25      | 0         | 22.17               | 22.19     | 22.21     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.81     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.03               | 22.17     | 22.24     |  |
|                                                              |                 |                     | 1       | 12        | 22.14               | 22.16     | 22.15     |  |
|                                                              |                 |                     | 1       | 24        | 22.26               | 22.39     | 22.15     |  |
|                                                              |                 |                     | 12      | 0         | 21.32               | 21.31     | 21.34     |  |
|                                                              |                 |                     | 12      | 6         | 21.16               | 21.25     | 21.26     |  |
|                                                              |                 |                     | 12      | 11        | 21.23               | 21.38     | 21.32     |  |
|                                                              |                 |                     | 25      | 0         | 21.08               | 21.19     | 21.08     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.69     |           |  |
| 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         | 22.15               | 22.22     | 22.24     |  |
|                                                              |                 |                     | 1       | 24        | 22.14               | 22.50     | 22.34     |  |
|                                                              |                 |                     | 1       | 49        | 22.32               | 22.32     | 22.16     |  |
|                                                              |                 |                     | 25      | 0         | 21.22               | 21.35     | 21.42     |  |
|                                                              |                 |                     | 25      | 12        | 21.46               | 21.38     | 21.25     |  |
|                                                              |                 |                     | 25      | 24        | 21.24               | 21.36     | 21.41     |  |
|                                                              |                 |                     | 50      | 0         | 21.20               | 21.25     | 21.36     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.62     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.15               | 22.22     | 22.24     |  |
|                                                              |                 |                     | 1       | 24        | 22.14               | 22.50     | 22.34     |  |
|                                                              |                 |                     | 1       | 49        | 22.32               | 22.32     | 22.16     |  |
|                                                              |                 |                     | 25      | 0         | 21.12               | 21.25     | 21.32     |  |
|                                                              |                 |                     | 25      | 12        | 21.36               | 21.28     | 21.15     |  |
|                                                              |                 |                     | 25      | 24        | 21.14               | 21.26     | 21.41     |  |
|                                                              |                 |                     | 50      | 0         | 21.20               | 21.25     | 21.36     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.80     |           |  |
| 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         | 23.24               | 23.23     | 23.24     |
|                                                              |                 |                     | 1       | 37        | 23.21               | 23.22     | 23.15     |
|                                                              |                 |                     | 1       | 74        | 23.11               | 23.18     | 23.24     |
|                                                              |                 |                     | 36      | 0         | 22.24               | 22.34     | 22.41     |
|                                                              |                 |                     | 36      | 16        | 22.23               | 22.30     | 22.31     |
|                                                              |                 |                     | 36      | 35        | 22.41               | 22.30     | 22.15     |
|                                                              |                 |                     | 75      | 0         | 22.16               | 22.20     | 22.11     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.54               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.24               | 22.62     | 22.34     |
|                                                              |                 |                     | 1       | 37        | 22.31               | 22.38     | 22.24     |
|                                                              |                 |                     | 1       | 74        | 22.41               | 22.67     | 22.24     |
|                                                              |                 |                     | 36      | 0         | 21.31               | 21.30     | 21.16     |
|                                                              |                 |                     | 36      | 16        | 21.26               | 21.25     | 21.31     |
|                                                              |                 |                     | 36      | 35        | 21.34               | 21.27     | 21.24     |
|                                                              |                 |                     | 75      | 0         | 21.11               | 21.15     | 21.12     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 21.97               |           |           |
|                                                              |                 | 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         | 23.51               | 23.12     | 23.41     |
|                                                              |                 |                     | 1       | 49        | 23.41               | 23.26     | 23.31     |
|                                                              |                 |                     | 1       | 99        | 23.15               | 23.09     | 23.08     |
|                                                              |                 |                     | 50      | 0         | 22.15               | 22.35     | 22.31     |
|                                                              |                 |                     | 50      | 24        | 22.62               | 22.32     | 22.16     |
|                                                              |                 |                     | 50      | 49        | 22.41               | 22.37     | 22.51     |
|                                                              |                 |                     | 100     | 0         | 22.16               | 22.20     | 22.24     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.81               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.23               | 22.32     | 22.14     |
|                                                              |                 |                     | 1       | 49        | 22.10               | 22.41     | 22.16     |
|                                                              |                 |                     | 1       | 99        | 22.16               | 22.31     | 22.21     |
|                                                              |                 |                     | 50      | 0         | 21.13               | 21.36     | 21.34     |
|                                                              |                 |                     | 50      | 24        | 21.26               | 21.24     | 21.26     |
|                                                              |                 |                     | 50      | 49        | 21.41               | 21.23     | 21.41     |
|                                                              |                 |                     | 100     | 0         | 21.06               | 21.15     | 21.03     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 21.71               |           |           |
|                                                              |                 | 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         | 23.24               | 23.32    | 23.22     |
|                                                                                                      |                 |                    | 1       | 2         | 23.15               | 23.43    | 23.34     |
|                                                                                                      |                 |                    | 1       | 5         | 23.22               | 23.15    | 23.12     |
|                                                                                                      |                 |                    | 3       | 0         | 22.16               | 22.32    | 22.24     |
|                                                                                                      |                 |                    | 3       | 1         | 22.14               | 22.41    | 22.21     |
|                                                                                                      |                 |                    | 3       | 2         | 22.30               | 22.51    | 22.31     |
|                                                                                                      |                 |                    | 6       | 0         | 22.10               | 22.19    | 22.16     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 19.78               |          |           |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 38.45               |          |           |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.51               | 22.57    | 22.43     |
|                                                                                                      |                 |                    | 1       | 2         | 22.41               | 22.47    | 22.36     |
|                                                                                                      |                 |                    | 1       | 5         | 22.62               | 22.53    | 22.43     |
|                                                                                                      |                 |                    | 3       | 0         | 21.41               | 21.45    | 21.36     |
|                                                                                                      |                 |                    | 3       | 1         | 21.46               | 21.47    | 21.41     |
|                                                                                                      |                 |                    | 3       | 2         | 21.53               | 21.42    | 21.42     |
|                                                                                                      |                 |                    | 6       | 0         | 21.38               | 21.31    | 21.32     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 18.97               |          |           |
|                                                                                                      |                 | 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         | 23.24               | 23.43    | 23.34     |
|                                                                                                      |                 |                    | 1       | 7         | 23.46               | 23.32    | 23.26     |
|                                                                                                      |                 |                    | 1       | 14        | 23.11               | 23.32    | 23.24     |
|                                                                                                      |                 |                    | 8       | 0         | 22.23               | 22.44    | 22.41     |
|                                                                                                      |                 |                    | 8       | 4         | 22.16               | 22.52    | 22.34     |
|                                                                                                      |                 |                    | 8       | 7         | 22.43               | 22.41    | 22.43     |
|                                                                                                      |                 |                    | 15      | 0         | 22.16               | 22.26    | 22.21     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 19.81               |          |           |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           | 38.45               |          |           |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.51               | 22.52    | 22.41     |
|                                                                                                      |                 |                    | 1       | 7         | 22.41               | 22.48    | 22.62     |
|                                                                                                      |                 |                    | 1       | 14        | 22.26               | 22.49    | 22.41     |
|                                                                                                      |                 |                    | 8       | 0         | 21.53               | 21.45    | 21.42     |
|                                                                                                      |                 |                    | 8       | 4         | 21.46               | 21.56    | 21.36     |
|                                                                                                      |                 |                    | 8       | 7         | 21.41               | 21.45    | 21.42     |
|                                                                                                      |                 |                    | 15      | 0         | 21.22               | 21.33    | 21.23     |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           | -1.5                |          |           |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           | 18.97               |          |           |
|                                                                                                      |                 | 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         | 23.24               | 23.35    | 23.22    |  |
|                                                                                                      |                 |                    | 1       | 12        | 23.15               | 23.37    | 23.26    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.24               | 23.42    | 23.34    |  |
|                                                                                                      |                 |                    | 12      | 0         | 22.24               | 22.54    | 22.24    |  |
|                                                                                                      |                 |                    | 12      | 6         | 22.43               | 22.52    | 22.43    |  |
|                                                                                                      |                 |                    | 12      | 11        | 22.24               | 22.44    | 22.34    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.31               | 22.42    | 22.39    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.77    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.53               | 22.83    | 22.63    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.41               | 22.58    | 22.48    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.64               | 22.81    | 22.74    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.54               | 21.51    | 21.56    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.46               | 21.59    | 21.51    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.32               | 21.53    | 21.38    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.25               | 21.37    | 21.33    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.18    |          |  |
| 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         | 23.26               | 23.34    | 23.26    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.31               | 23.42    | 23.41    |  |
|                                                                                                      |                 |                    | 1       | 49        | 23.42               | 23.43    | 23.39    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.24               | 22.45    | 22.31    |  |
|                                                                                                      |                 |                    | 25      | 12        | 22.41               | 22.47    | 22.36    |  |
|                                                                                                      |                 |                    | 25      | 24        | 22.31               | 22.41    | 22.34    |  |
|                                                                                                      |                 |                    | 50      | 0         | 22.14               | 22.28    | 22.19    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.78    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.53               | 22.89    | 22.54    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.41               | 22.56    | 22.41    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.63               | 22.45    | 22.26    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.52               | 21.50    | 22.36    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.41               | 21.49    | 21.25    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.36               | 21.43    | 21.33    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.26               | 21.37    | 21.27    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.24    |          |  |
| 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         | 22.21               | 22.15     | 22.16     |  |
|                                                              |                 |                     | 1       | 12        | 22.16               | 22.03     | 22.08     |  |
|                                                              |                 |                     | 1       | 24        | 22.22               | 22.15     | 22.21     |  |
|                                                              |                 |                     | 12      | 0         | 21.31               | 21.67     | 21.43     |  |
|                                                              |                 |                     | 12      | 6         | 21.24               | 21.71     | 21.53     |  |
|                                                              |                 |                     | 12      | 11        | 21.36               | 21.69     | 21.34     |  |
|                                                              |                 |                     | 25      | 0         | 21.22               | 21.44     | 21.26     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.82     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.34               | 21.37     | 21.43     |  |
|                                                              |                 |                     | 1       | 12        | 21.55               | 21.47     | 21.36     |  |
|                                                              |                 |                     | 1       | 24        | 21.36               | 21.49     | 21.52     |  |
|                                                              |                 |                     | 12      | 0         | 20.52               | 20.77     | 20.57     |  |
|                                                              |                 |                     | 12      | 6         | 20.63               | 20.75     | 20.64     |  |
|                                                              |                 |                     | 12      | 11        | 20.55               | 20.72     | 20.84     |  |
|                                                              |                 |                     | 25      | 0         | 20.49               | 20.59     | 20.51     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.15     |           |  |
| 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         | 22.48               | 22.46     | 22.41     |  |
|                                                              |                 |                     | 1       | 24        | 22.36               | 22.16     | 22.31     |  |
|                                                              |                 |                     | 1       | 49        | 22.14               | 22.17     | 22.13     |  |
|                                                              |                 |                     | 25      | 0         | 21.68               | 21.69     | 21.52     |  |
|                                                              |                 |                     | 25      | 12        | 21.46               | 21.70     | 21.36     |  |
|                                                              |                 |                     | 25      | 24        | 21.53               | 21.70     | 21.52     |  |
|                                                              |                 |                     | 50      | 0         | 21.47               | 21.56     | 21.37     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.08     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.84               | 21.83     | 21.83     |  |
|                                                              |                 |                     | 1       | 24        | 21.69               | 21.87     | 21.69     |  |
|                                                              |                 |                     | 1       | 49        | 21.71               | 21.66     | 21.64     |  |
|                                                              |                 |                     | 25      | 0         | 20.56               | 20.78     | 20.53     |  |
|                                                              |                 |                     | 25      | 12        | 20.69               | 20.78     | 20.68     |  |
|                                                              |                 |                     | 25      | 24        | 20.38               | 20.81     | 20.41     |  |
|                                                              |                 |                     | 50      | 0         | 20.31               | 20.49     | 20.35     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.47     |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth<br>(MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|--------------------------------------------------------------|--------------------|---------------------|---------|-----------|---------------------|-----------|-----------|
|                                                              |                    |                     |         |           | 20825               | 21100     | 21375     |
|                                                              |                    |                     |         |           | 2507.5MHz           | 2535.0MHz | 2562.5MHz |
| 7                                                            | 15                 | QPSK                | 1       | 0         | 22.54               | 22.68     | 22.41     |
|                                                              |                    |                     | 1       | 37        | 22.41               | 22.76     | 22.26     |
|                                                              |                    |                     | 1       | 74        | 22.63               | 22.72     | 22.34     |
|                                                              |                    |                     | 36      | 0         | 21.85               | 21.81     | 21.52     |
|                                                              |                    |                     | 36      | 16        | 21.63               | 21.78     | 21.63     |
|                                                              |                    |                     | 36      | 35        | 21.84               | 21.87     | 21.41     |
|                                                              |                    |                     | 75      | 0         | 21.43               | 21.58     | 21.26     |
|                                                              |                    | Antenna Gain (dBi): |         |           | -0.4                |           |           |
|                                                              |                    | Max. EIRP (dBm):    |         |           | 22.36               |           |           |
|                                                              |                    | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
|                                                              |                    | 16QAM               | 1       | 0         | 22.43               | 22.31     | 22.52     |
|                                                              |                    |                     | 1       | 37        | 22.23               | 22.26     | 22.42     |
|                                                              |                    |                     | 1       | 74        | 22.31               | 22.32     | 22.36     |
|                                                              |                    |                     | 36      | 0         | 20.83               | 20.77     | 20.52     |
|                                                              |                    |                     | 36      | 16        | 20.94               | 20.92     | 20.97     |
|                                                              |                    |                     | 36      | 35        | 20.83               | 20.90     | 20.74     |
|                                                              |                    |                     | 75      | 0         | 20.64               | 20.81     | 20.41     |
|                                                              |                    | Antenna Gain (dBi): |         |           | -0.4                |           |           |
|                                                              |                    | Max. EIRP (dBm):    |         |           | 22.12               |           |           |
| EIRP Limit (dBm):                                            |                    |                     | 33.00   |           |                     |           |           |
|                                                              |                    |                     |         |           |                     |           |           |
| LTE Band                                                     | Bandwidth<br>(MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |
|                                                              |                    |                     |         |           | 20850               | 21100     | 21350     |
|                                                              |                    |                     |         |           | 2510.0MHz           | 2535.0MHz | 2560.0MHz |
| 7                                                            | 20                 | QPSK                | 1       | 0         | 22.52               | 22.53     | 22.47     |
|                                                              |                    |                     | 1       | 49        | 22.74               | 22.80     | 22.63     |
|                                                              |                    |                     | 1       | 99        | 22.63               | 22.56     | 22.41     |
|                                                              |                    |                     | 50      | 0         | 21.53               | 21.82     | 21.43     |
|                                                              |                    |                     | 50      | 24        | 21.41               | 21.83     | 21.63     |
|                                                              |                    |                     | 50      | 49        | 21.26               | 21.85     | 21.41     |
|                                                              |                    |                     | 100     | 0         | 21.52               | 21.81     | 21.25     |
|                                                              |                    | Antenna Gain (dBi): |         |           | -0.4                |           |           |
|                                                              |                    | Max. EIRP (dBm):    |         |           | 22.40               |           |           |
|                                                              |                    | EIRP Limit (dBm):   |         |           | 33.00               |           |           |
|                                                              |                    | 16QAM               | 1       | 0         | 22.26               | 22.11     | 22.54     |
|                                                              |                    |                     | 1       | 49        | 22.43               | 22.46     | 22.41     |
|                                                              |                    |                     | 1       | 99        | 22.06               | 22.24     | 22.16     |
|                                                              |                    |                     | 50      | 0         | 20.83               | 20.82     | 20.63     |
|                                                              |                    |                     | 50      | 24        | 20.61               | 20.90     | 20.84     |
|                                                              |                    |                     | 50      | 49        | 20.58               | 20.90     | 20.53     |
|                                                              |                    |                     | 100     | 0         | 20.43               | 20.82     | 20.41     |
|                                                              |                    | Antenna Gain (dBi): |         |           | -0.4                |           |           |
|                                                              |                    | Max. EIRP (dBm):    |         |           | 22.14               |           |           |
| EIRP Limit (dBm):                                            |                    |                     | 33.00   |           |                     |           |           |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                    |                     |         |           |                     |           |           |

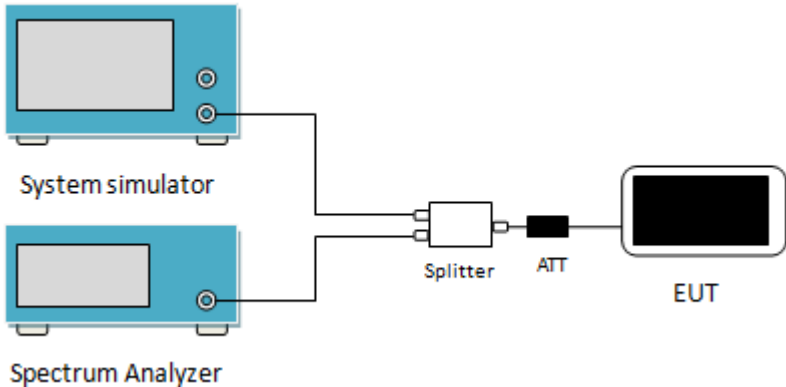
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                    |         |           | 37775               | 38000     | 38225     |  |
|                                                              |                 |                    |         |           | 2572.5MHz           | 2595.0MHz | 2617.5MHz |  |
| 38                                                           | 5               | QPSK               | 1       | 0         | 22.41               | 22.78     | 22.83     |  |
|                                                              |                 |                    | 1       | 12        | 22.58               | 22.83     | 22.62     |  |
|                                                              |                 |                    | 1       | 24        | 22.41               | 22.81     | 22.71     |  |
|                                                              |                 |                    | 12      | 0         | 21.41               | 21.92     | 21.68     |  |
|                                                              |                 |                    | 12      | 6         | 21.63               | 21.83     | 21.73     |  |
|                                                              |                 |                    | 12      | 11        | 21.52               | 21.91     | 21.68     |  |
|                                                              |                 |                    | 25      | 0         | 21.35               | 21.69     | 21.52     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.43     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.84               | 21.88     | 21.84     |  |
|                                                              |                 |                    | 1       | 12        | 21.86               | 21.89     | 21.69     |  |
|                                                              |                 |                    | 1       | 24        | 21.74               | 21.89     | 21.84     |  |
|                                                              |                 |                    | 12      | 0         | 20.54               | 20.84     | 20.63     |  |
|                                                              |                 |                    | 12      | 6         | 20.84               | 20.86     | 20.84     |  |
|                                                              |                 |                    | 12      | 11        | 20.67               | 20.88     | 20.41     |  |
|                                                              |                 |                    | 25      | 0         | 20.53               | 20.66     | 20.43     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.49     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
|                                                              |                 |                    |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                    |         |           | 37800               | 38000     | 38200     |  |
|                                                              |                 |                    |         |           | 2575.0MHz           | 2595.0MHz | 2615.0MHz |  |
| 38                                                           | 10              | QPSK               | 1       | 0         | 22.85               | 22.85     | 22.86     |  |
|                                                              |                 |                    | 1       | 24        | 22.83               | 22.86     | 22.74     |  |
|                                                              |                 |                    | 1       | 49        | 22.74               | 22.87     | 22.69     |  |
|                                                              |                 |                    | 25      | 0         | 21.84               | 21.92     | 21.69     |  |
|                                                              |                 |                    | 25      | 12        | 21.62               | 21.82     | 21.73     |  |
|                                                              |                 |                    | 25      | 24        | 21.74               | 21.90     | 21.85     |  |
|                                                              |                 |                    | 50      | 0         | 21.53               | 21.55     | 21.46     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.47     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.83               | 21.97     | 21.53     |  |
|                                                              |                 |                    | 1       | 24        | 21.85               | 21.93     | 21.80     |  |
|                                                              |                 |                    | 1       | 49        | 21.96               | 21.89     | 21.96     |  |
|                                                              |                 |                    | 25      | 0         | 20.53               | 20.85     | 20.62     |  |
|                                                              |                 |                    | 25      | 12        | 20.85               | 20.90     | 20.85     |  |
|                                                              |                 |                    | 25      | 24        | 20.74               | 20.96     | 20.41     |  |
|                                                              |                 |                    | 50      | 0         | 20.51               | 20.69     | 20.33     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.57     |                     |           |           |  |
| 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         | 22.85               | 22.76     | 22.85     |  |
|                                                              |                 |                    | 1       | 37        | 22.74               | 22.78     | 22.41     |  |
|                                                              |                 |                    | 1       | 74        | 22.56               | 22.69     | 22.68     |  |
|                                                              |                 |                    | 36      | 0         | 21.92               | 21.90     | 21.41     |  |
|                                                              |                 |                    | 36      | 16        | 21.83               | 21.83     | 21.36     |  |
|                                                              |                 |                    | 36      | 35        | 21.74               | 21.93     | 21.52     |  |
|                                                              |                 |                    | 75      | 0         | 21.58               | 21.68     | 21.53     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.45     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.85               | 21.92     | 21.83     |  |
|                                                              |                 |                    | 1       | 37        | 21.92               | 21.93     | 21.74     |  |
|                                                              |                 |                    | 1       | 74        | 21.83               | 21.93     | 21.85     |  |
|                                                              |                 |                    | 36      | 0         | 20.95               | 20.94     | 20.92     |  |
|                                                              |                 |                    | 36      | 16        | 20.74               | 20.90     | 20.85     |  |
|                                                              |                 |                    | 36      | 35        | 20.83               | 20.90     | 20.71     |  |
|                                                              |                 |                    | 75      | 0         | 20.34               | 20.67     | 20.53     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.53     |                     |           |           |  |
| 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         | 22.51               | 22.65     | 22.62     |  |
|                                                              |                 |                    | 1       | 49        | 22.41               | 22.87     | 22.48     |  |
|                                                              |                 |                    | 1       | 99        | 22.82               | 22.64     | 22.38     |  |
|                                                              |                 |                    | 50      | 0         | 21.49               | 21.89     | 21.74     |  |
|                                                              |                 |                    | 50      | 24        | 21.63               | 21.96     | 21.52     |  |
|                                                              |                 |                    | 50      | 49        | 21.35               | 21.94     | 21.62     |  |
|                                                              |                 |                    | 100     | 0         | 21.25               | 21.73     | 21.47     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.47     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.80               | 21.78     | 21.85     |  |
|                                                              |                 |                    | 1       | 49        | 21.90               | 22.03     | 21.93     |  |
|                                                              |                 |                    | 1       | 99        | 21.52               | 21.87     | 21.83     |  |
|                                                              |                 |                    | 50      | 0         | 20.92               | 20.97     | 20.95     |  |
|                                                              |                 |                    | 50      | 24        | 20.85               | 20.87     | 20.74     |  |
|                                                              |                 |                    | 50      | 49        | 20.74               | 20.96     | 20.68     |  |
|                                                              |                 |                    | 100     | 0         | 20.38               | 20.66     | 20.53     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.63     |                     |           |           |  |
| 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         | 22.54               | 22.78     | 22.54     |  |
|                                                              |                 |                    | 1       | 12        | 22.58               | 22.77     | 22.62     |  |
|                                                              |                 |                    | 1       | 24        | 22.74               | 22.78     | 22.71     |  |
|                                                              |                 |                    | 12      | 0         | 21.41               | 21.83     | 21.43     |  |
|                                                              |                 |                    | 12      | 6         | 21.52               | 21.87     | 21.53     |  |
|                                                              |                 |                    | 12      | 11        | 21.36               | 21.88     | 21.62     |  |
|                                                              |                 |                    | 25      | 0         | 21.32               | 21.63     | 21.41     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.38     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.83               | 21.83     | 21.69     |  |
|                                                              |                 |                    | 1       | 12        | 21.74               | 21.84     | 21.83     |  |
|                                                              |                 |                    | 1       | 24        | 21.53               | 21.91     | 21.47     |  |
|                                                              |                 |                    | 12      | 0         | 20.85               | 20.87     | 20.63     |  |
|                                                              |                 |                    | 12      | 6         | 20.74               | 20.89     | 20.80     |  |
|                                                              |                 |                    | 12      | 11        | 20.69               | 20.89     | 20.74     |  |
|                                                              |                 |                    | 25      | 0         | 20.53               | 20.76     | 20.41     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 21.51     |           |  |
|                                                              |                 | 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         | 22.41               | 22.79     | 22.74     |  |
|                                                              |                 |                    | 1       | 24        | 22.85               | 22.83     | 22.63     |  |
|                                                              |                 |                    | 1       | 49        | 22.41               | 22.75     | 22.63     |  |
|                                                              |                 |                    | 25      | 0         | 21.53               | 21.92     | 21.63     |  |
|                                                              |                 |                    | 25      | 12        | 21.62               | 21.91     | 21.83     |  |
|                                                              |                 |                    | 25      | 24        | 21.71               | 21.89     | 21.74     |  |
|                                                              |                 |                    | 50      | 0         | 21.35               | 21.59     | 21.39     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.45     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.80               | 21.89     | 21.83     |  |
|                                                              |                 |                    | 1       | 24        | 21.74               | 21.89     | 21.74     |  |
|                                                              |                 |                    | 1       | 49        | 21.95               | 21.84     | 21.80     |  |
|                                                              |                 |                    | 25      | 0         | 20.53               | 20.88     | 20.69     |  |
|                                                              |                 |                    | 25      | 12        | 20.85               | 20.91     | 20.54     |  |
|                                                              |                 |                    | 25      | 24        | 20.74               | 20.82     | 20.41     |  |
|                                                              |                 |                    | 50      | 0         | 20.38               | 20.47     | 20.55     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 21.55     |           |  |
|                                                              |                 | 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         | 22.53               | 22.76     | 22.83     |  |
|                                                              |                 |                    | 1       | 37        | 22.74               | 22.74     | 22.40     |  |
|                                                              |                 |                    | 1       | 74        | 22.61               | 22.67     | 22.69     |  |
|                                                              |                 |                    | 36      | 0         | 21.83               | 21.82     | 21.48     |  |
|                                                              |                 |                    | 36      | 16        | 21.47               | 21.74     | 21.36     |  |
|                                                              |                 |                    | 36      | 35        | 21.63               | 21.80     | 21.74     |  |
|                                                              |                 |                    | 75      | 0         | 21.53               | 21.45     | 21.26     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.43     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.74               | 21.83     | 21.97     |  |
|                                                              |                 |                    | 1       | 37        | 21.66               | 21.84     | 21.91     |  |
|                                                              |                 |                    | 1       | 74        | 21.91               | 21.76     | 21.85     |  |
|                                                              |                 |                    | 36      | 0         | 20.83               | 20.88     | 20.86     |  |
|                                                              |                 |                    | 36      | 16        | 20.61               | 20.89     | 20.69     |  |
|                                                              |                 |                    | 36      | 35        | 20.53               | 20.90     | 20.71     |  |
|                                                              |                 |                    | 75      | 0         | 20.38               | 20.59     | 20.53     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.57     |                     |           |           |  |
| 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         | 22.83               | 22.67     | 22.84     |  |
|                                                              |                 |                    | 1       | 49        | 22.74               | 22.82     | 22.71     |  |
|                                                              |                 |                    | 1       | 99        | 22.68               | 22.67     | 22.63     |  |
|                                                              |                 |                    | 50      | 0         | 21.41               | 21.84     | 21.63     |  |
|                                                              |                 |                    | 50      | 24        | 21.83               | 21.88     | 21.41     |  |
|                                                              |                 |                    | 50      | 49        | 21.64               | 21.91     | 21.53     |  |
|                                                              |                 |                    | 100     | 0         | 21.41               | 21.63     | 21.22     |  |
|                                                              |                 | Antenna Gain(dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):   |         |           |                     | 22.44     |           |  |
|                                                              |                 | EIRP Limit (dBm):  |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM              | 1       | 0         | 21.92               | 21.92     | 21.97     |  |
|                                                              |                 |                    | 1       | 49        | 21.86               | 21.99     | 21.83     |  |
|                                                              |                 |                    | 1       | 99        | 21.74               | 21.85     | 21.74     |  |
|                                                              |                 |                    | 50      | 0         | 20.85               | 20.75     | 20.68     |  |
|                                                              |                 |                    | 50      | 24        | 20.47               | 20.91     | 20.85     |  |
|                                                              |                 |                    | 50      | 49        | 20.92               | 20.96     | 20.79     |  |
|                                                              |                 |                    | 100     | 0         | 20.41               | 20.69     | 20.54     |  |
| Antenna Gain(dBi):                                           |                 |                    |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                    |         | 21.59     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                    |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                    |         |           |                     |           |           |  |

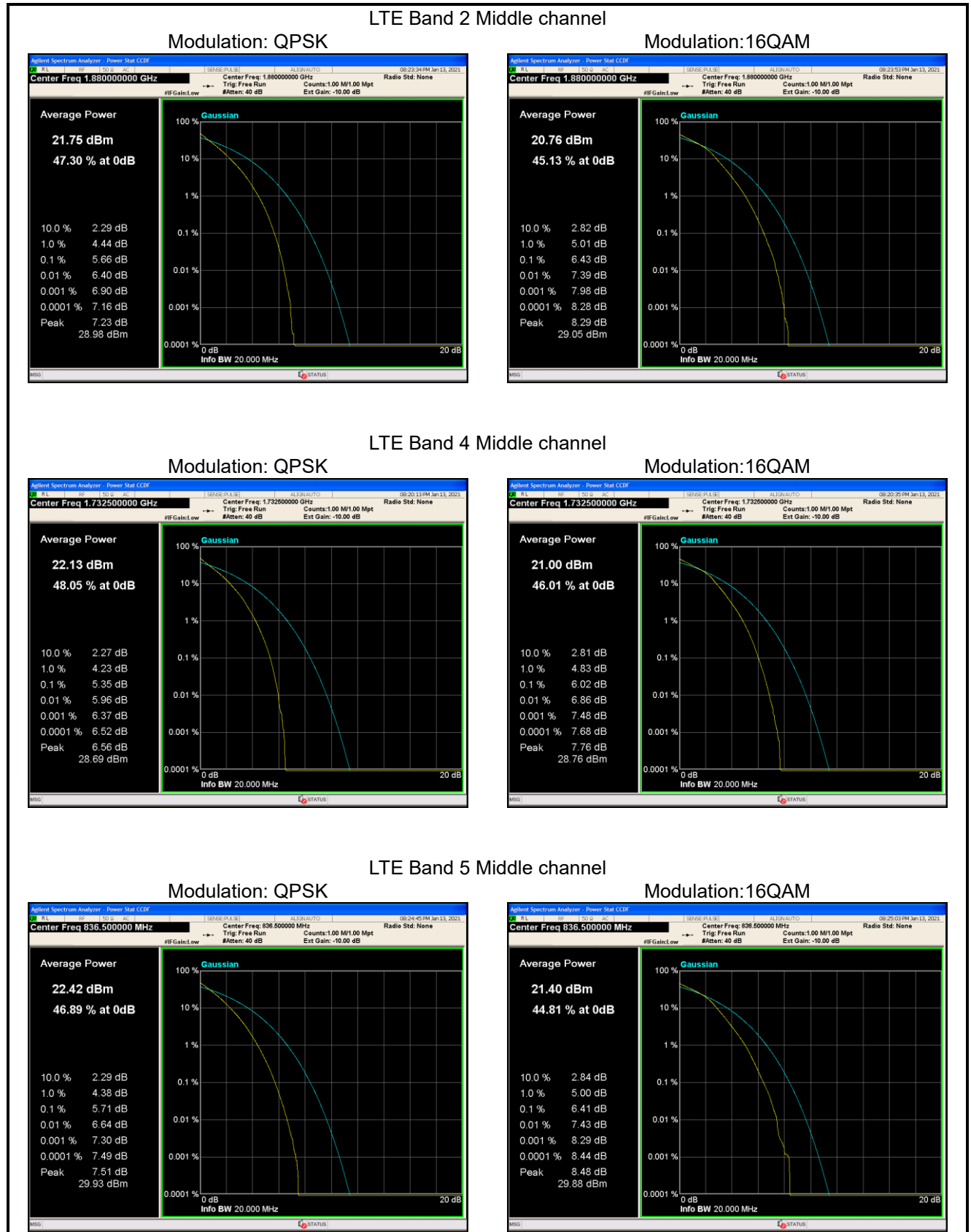
## 6.2 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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):**

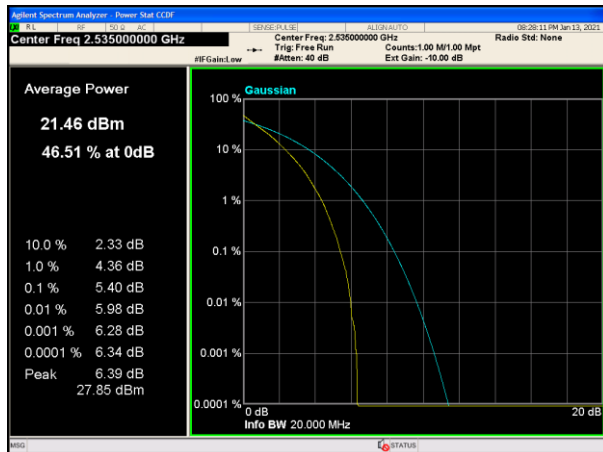
| Bandwidth                    | Modulation | RB Size | RB Offset | PAPR |
|------------------------------|------------|---------|-----------|------|
| LTE Band 2 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.66 |
|                              | 16QAM      | 100     | 0         | 6.43 |
| LTE Band 4 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.35 |
|                              | 16QAM      | 100     | 0         | 6.02 |
| LTE Band 5 (Middle Channel)  |            |         |           |      |
| 10MHz                        | QPSK       | 50      | 0         | 5.71 |
|                              | 16QAM      | 50      | 0         | 6.41 |
| LTE Band 7 (Middle Channel)  |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.40 |
|                              | 16QAM      | 100     | 0         | 6.14 |
| LTE Band 38 (Middle Channel) |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.39 |
|                              | 16QAM      | 100     | 0         | 6.13 |
| LTE Band 41 (Middle Channel) |            |         |           |      |
| 20MHz                        | QPSK       | 100     | 0         | 5.51 |
|                              | 16QAM      | 100     | 0         | 6.20 |

Test plots as below:

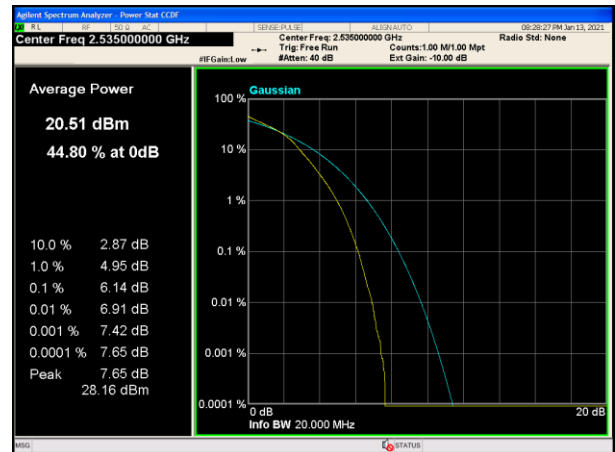


## LTE Band 7 Middle channel

Modulation: QPSK

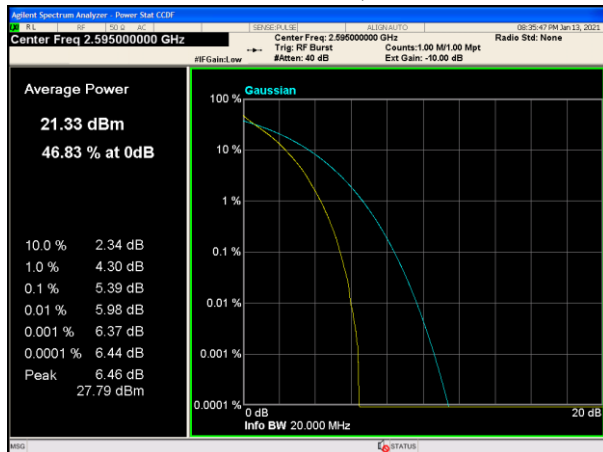


Modulation: 16QAM

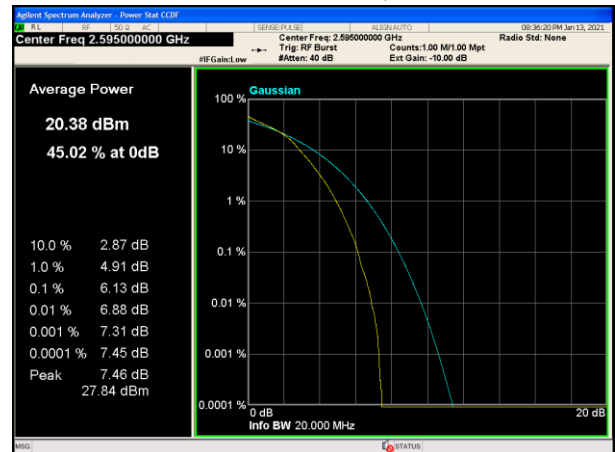


## LTE Band 38 Middle channel

Modulation: QPSK

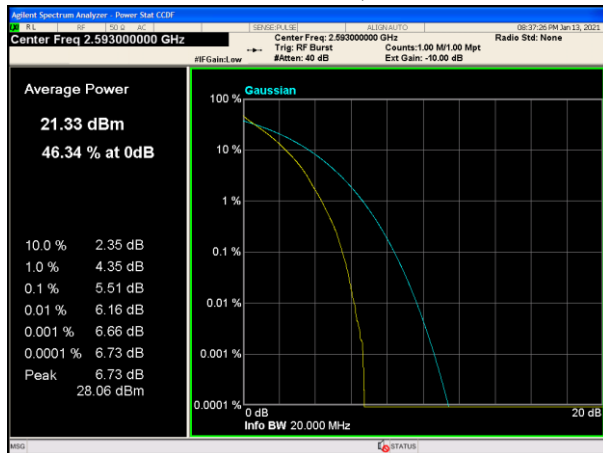


Modulation: 16QAM

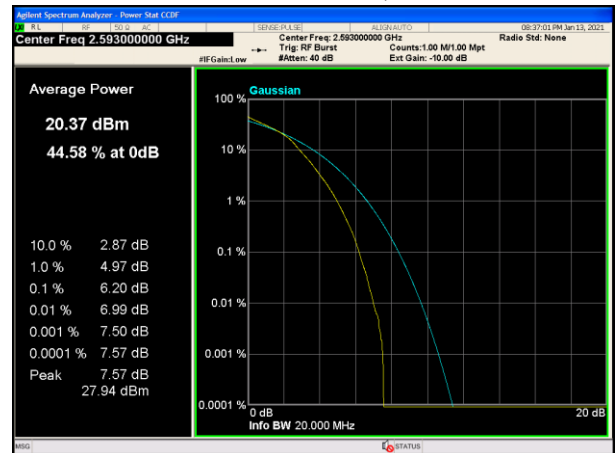


## LTE Band 41 Middle channel

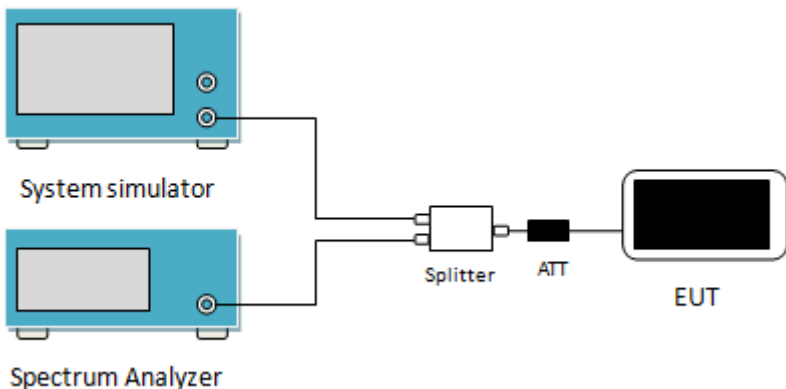
Modulation: QPSK



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 devices: a 'System simulator' on top and a 'Spectrum Analyzer' on the bottom. Both have a single output port. These two ports are connected to a single input port of a 'Splitter' (a white rectangle with two output ports). One output port of the Splitter is connected to an 'ATT' (Attenuator, a small black rectangle). The other output port of the Splitter is connected to the 'EUT' (Equipment Under Test, a black rectangle with a screen).</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      | 1086          | 1302            |
|            |         |                 | QPSK       | 1092          | 1284            |
|            | 18900   | 1880.00         | 16QAM      | 1098          | 1284            |
|            |         |                 | QPSK       | 1098          | 1260            |
|            | 19193   | 1909.30         | 16QAM      | 1092          | 1272            |
|            |         |                 | QPSK       | 1098          | 1284            |
| 3MHz       | 18615   | 1851.50         | 16QAM      | 2712          | 2964            |
|            |         |                 | QPSK       | 2724          | 2988            |
|            | 18900   | 1880.00         | 16QAM      | 2724          | 2964            |
|            |         |                 | QPSK       | 2736          | 2988            |
|            | 19185   | 1908.50         | 16QAM      | 2712          | 2976            |
|            |         |                 | QPSK       | 2736          | 3000            |
| 5MHz       | 18625   | 1852.50         | 16QAM      | 4500          | 4880            |
|            |         |                 | QPSK       | 4500          | 4860            |
|            | 18900   | 1880.00         | 16QAM      | 4480          | 4860            |
|            |         |                 | QPSK       | 4500          | 4820            |
|            | 19175   | 1907.50         | 16QAM      | 4520          | 4860            |
|            |         |                 | QPSK       | 4500          | 4860            |
| 10MHz      | 18650   | 1855.00         | 16QAM      | 9040          | 9960            |
|            |         |                 | QPSK       | 9080          | 10160           |
|            | 18900   | 1880.00         | 16QAM      | 9080          | 10040           |
|            |         |                 | QPSK       | 9080          | 10120           |
|            | 19150   | 1905.00         | 16QAM      | 9120          | 10080           |
|            |         |                 | QPSK       | 9080          | 10040           |
| 15MHz      | 18675   | 1857.50         | 16QAM      | 13500         | 14580           |
|            |         |                 | QPSK       | 13500         | 14820           |
|            | 18900   | 1880.00         | 16QAM      | 13500         | 14520           |
|            |         |                 | QPSK       | 13500         | 14640           |
|            | 19125   | 1902.50         | 16QAM      | 13440         | 14700           |
|            |         |                 | QPSK       | 13560         | 14640           |
| 20MHz      | 18700   | 1860.00         | 16QAM      | 17920         | 19200           |
|            |         |                 | QPSK       | 17920         | 19280           |
|            | 18900   | 1880.00         | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18000         | 19360           |
|            | 19100   | 1900.00         | 16QAM      | 17920         | 19280           |
|            |         |                 | QPSK       | 17920         | 19280           |

| LTE Band 4 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz     | 19957   | 1710.7          | 16QAM      | 1098          | 1260            |
|            |         |                 | QPSK       | 1104          | 1278            |
|            | 20175   | 1732.5          | 16QAM      | 1092          | 1290            |
|            |         |                 | QPSK       | 1098          | 1296            |
|            | 20393   | 1754.3          | 16QAM      | 1092          | 1272            |
|            |         |                 | QPSK       | 1104          | 1272            |
| 3MHz       | 19965   | 1711.5          | 16QAM      | 2712          | 2964            |
|            |         |                 | QPSK       | 2724          | 3012            |
|            | 20175   | 1732.5          | 16QAM      | 2712          | 2952            |
|            |         |                 | QPSK       | 2724          | 3024            |
|            | 20385   | 1750.5          | 16QAM      | 2724          | 2964            |
|            |         |                 | QPSK       | 2724          | 3012            |
| 5MHz       | 19975   | 1712.5          | 16QAM      | 4520          | 4860            |
|            |         |                 | QPSK       | 4520          | 4880            |
|            | 20175   | 1732.5          | 16QAM      | 4480          | 4860            |
|            |         |                 | QPSK       | 4540          | 4880            |
|            | 20375   | 1752.5          | 16QAM      | 4500          | 4860            |
|            |         |                 | QPSK       | 4500          | 4860            |
| 10MHz      | 20000   | 1715.0          | 16QAM      | 9080          | 10000           |
|            |         |                 | QPSK       | 9080          | 10080           |
|            | 20175   | 1732.5          | 16QAM      | 9080          | 9960            |
|            |         |                 | QPSK       | 9080          | 10160           |
|            | 20350   | 1750.0          | 16QAM      | 9120          | 10040           |
|            |         |                 | QPSK       | 9120          | 10080           |
| 15MHz      | 20025   | 1717.5          | 16QAM      | 13500         | 14520           |
|            |         |                 | QPSK       | 13500         | 14580           |
|            | 20175   | 1732.5          | 16QAM      | 13560         | 14640           |
|            |         |                 | QPSK       | 13500         | 14640           |
|            | 20325   | 1747.5          | 16QAM      | 13500         | 14760           |
|            |         |                 | QPSK       | 13560         | 14760           |
| 20MHz      | 20050   | 1720.0          | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18000         | 19360           |
|            | 20175   | 1732.5          | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18000         | 19200           |
|            | 20300   | 1745.0          | 16QAM      | 18000         | 19200           |
|            |         |                 | QPSK       | 18000         | 19360           |

| TE Band 5 |         |                 |            |               |                 |
|-----------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 1.4MHz    | 20407   | 824.7           | 16QAM      | 1092          | 1248            |
|           |         |                 | QPSK       | 1098          | 1278            |
|           | 20525   | 836.5           | 16QAM      | 1092          | 1296            |
|           |         |                 | QPSK       | 1092          | 1272            |
|           | 20643   | 848.3           | 16QAM      | 1092          | 1266            |
|           |         |                 | QPSK       | 1098          | 1260            |
| 3MHz      | 20415   | 825.5           | 16QAM      | 2712          | 2952            |
|           |         |                 | QPSK       | 2736          | 2988            |
|           | 20525   | 836.50          | 16QAM      | 2712          | 2964            |
|           |         |                 | QPSK       | 2712          | 3012            |
|           | 20635   | 847.50          | 16QAM      | 2712          | 2976            |
|           |         |                 | QPSK       | 2724          | 3000            |
| 5MHz      | 20425   | 826.50          | 16QAM      | 4500          | 4840            |
|           |         |                 | QPSK       | 4500          | 4880            |
|           | 20525   | 836.50          | 16QAM      | 4500          | 4780            |
|           |         |                 | QPSK       | 4500          | 4900            |
|           | 20625   | 846.50          | 16QAM      | 4480          | 4840            |
|           |         |                 | QPSK       | 4500          | 4880            |
| 10MHz     | 20450   | 829.00          | 16QAM      | 9120          | 10040           |
|           |         |                 | QPSK       | 9120          | 10040           |
|           | 20525   | 836.50          | 16QAM      | 9080          | 10000           |
|           |         |                 | QPSK       | 9040          | 10040           |
|           | 20600   | 844.00          | 16QAM      | 9120          | 10040           |
|           |         |                 | QPSK       | 9120          | 10120           |

| LTE Band 7 |         |                 |            |               |                 |
|------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth  | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz       | 20775   | 2502.5          | 16QAM      | 4480          | 4840            |
|            |         |                 | QPSK       | 4500          | 4880            |
|            | 21100   | 2535.0          | 16QAM      | 4500          | 4820            |
|            |         |                 | QPSK       | 4500          | 4840            |
|            | 21425   | 2567.5          | 16QAM      | 4520          | 4860            |
|            |         |                 | QPSK       | 4520          | 4940            |
| 10MHz      | 20800   | 2505.0          | 16QAM      | 90080         | 10000           |
|            |         |                 | QPSK       | 9080          | 10080           |
|            | 21100   | 2535.0          | 16QAM      | 9080          | 9960            |
|            |         |                 | QPSK       | 9120          | 10120           |
|            | 21400   | 2565.0          | 16QAM      | 9120          | 10160           |
|            |         |                 | QPSK       | 9080          | 10160           |
| 15MHz      | 20825   | 2507.5          | 16QAM      | 13560         | 14820           |
|            |         |                 | QPSK       | 13500         | 14760           |
|            | 21100   | 2535.0          | 16QAM      | 13500         | 14700           |
|            |         |                 | QPSK       | 13500         | 14700           |
|            | 21375   | 2562.5          | 16QAM      | 13500         | 14700           |
|            |         |                 | QPSK       | 13560         | 14820           |
| 20MHz      | 20850   | 2510.0          | 16QAM      | 18000         | 19280           |
|            |         |                 | QPSK       | 18000         | 19360           |
|            | 21100   | 2535.0          | 16QAM      | 17920         | 19280           |
|            |         |                 | QPSK       | 18080         | 19280           |
|            | 21350   | 2560.0          | 16QAM      | 17840         | 19200           |
|            |         |                 | QPSK       | 17920         | 19200           |

| LTE Band 38 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 37775   | 2574.50         | 16QAM      | 4500          | 4840            |
|             |         |                 | QPSK       | 4500          | 4860            |
|             | 38000   | 2595.00         | 16QAM      | 4500          | 4880            |
|             |         |                 | QPSK       | 4520          | 4800            |
|             | 38225   | 2617.50         | 16QAM      | 4520          | 4860            |
|             |         |                 | QPSK       | 4500          | 4840            |
| 10MHz       | 37800   | 2575.00         | 16QAM      | 9080          | 10000           |
|             |         |                 | QPSK       | 9080          | 9960            |
|             | 38000   | 2595.00         | 16QAM      | 9080          | 9960            |
|             |         |                 | QPSK       | 9080          | 9960            |
|             | 38200   | 2615.00         | 16QAM      | 9080          | 10040           |
|             |         |                 | QPSK       | 9120          | 10000           |
| 15MHz       | 37825   | 2577.50         | 16QAM      | 13500         | 14700           |
|             |         |                 | QPSK       | 13500         | 14700           |
|             | 38000   | 2595.00         | 16QAM      | 13500         | 14580           |
|             |         |                 | QPSK       | 13500         | 14640           |
|             | 38175   | 2612.50         | 16QAM      | 13560         | 14580           |
|             |         |                 | QPSK       | 13500         | 14700           |
| 20MHz       | 37850   | 2580.00         | 16QAM      | 17920         | 19280           |
|             |         |                 | QPSK       | 18000         | 19200           |
|             | 38000   | 2595.00         | 16QAM      | 17920         | 19280           |
|             |         |                 | QPSK       | 18000         | 19200           |
|             | 38150   | 2610.00         | 16QAM      | 18000         | 19120           |
|             |         |                 | QPSK       | 18000         | 19200           |

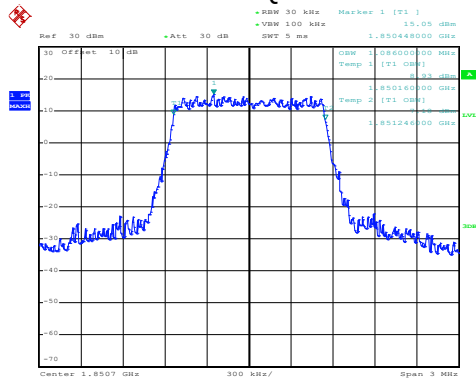
| LTE Band 41 |         |                 |            |               |                 |
|-------------|---------|-----------------|------------|---------------|-----------------|
| Bandwidth   | Channel | Frequency (MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
| 5MHz        | 40065   | 2537.50         | 16QAM      | 4500          | 4880            |
|             |         |                 | QPSK       | 4480          | 4900            |
|             | 40640   | 2595.00         | 16QAM      | 4500          | 4800            |
|             |         |                 | QPSK       | 4500          | 4900            |
|             | 41215   | 2652.50         | 16QAM      | 4500          | 4820            |
|             |         |                 | QPSK       | 4520          | 4840            |
| 10MHz       | 40090   | 2540.00         | 16QAM      | 9120          | 10000           |
|             |         |                 | QPSK       | 9120          | 10040           |
|             | 40640   | 2595.00         | 16QAM      | 9120          | 10000           |
|             |         |                 | QPSK       | 9080          | 10000           |
|             | 41190   | 2650.00         | 16QAM      | 9120          | 9960            |
|             |         |                 | QPSK       | 9040          | 10000           |
| 15MHz       | 40115   | 2542.50         | 16QAM      | 13500         | 14580           |
|             |         |                 | QPSK       | 13500         | 14520           |
|             | 40640   | 2595.00         | 16QAM      | 13440         | 14760           |
|             |         |                 | QPSK       | 13500         | 14640           |
|             | 41165   | 2647.50         | 16QAM      | 13500         | 14520           |
|             |         |                 | QPSK       | 13500         | 14520           |
| 20MHz       | 40140   | 2545.00         | 16QAM      | 18000         | 19120           |
|             |         |                 | QPSK       | 18000         | 19120           |
|             | 40640   | 2595.00         | 16QAM      | 17920         | 19120           |
|             |         |                 | QPSK       | 18000         | 19280           |
|             | 41140   | 2645.00         | 16QAM      | 18000         | 19040           |
|             |         |                 | QPSK       | 18000         | 19280           |

Test plot as follows:

LTE Band 2 part:

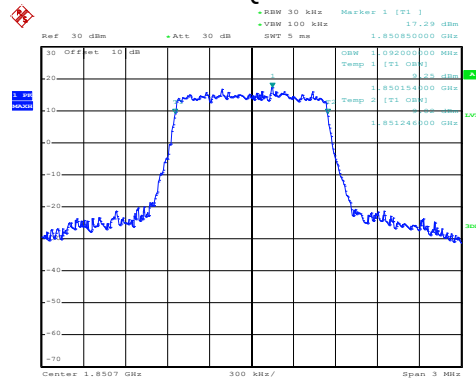
LTE Band 2: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 18.JAN.2021 16:19:11

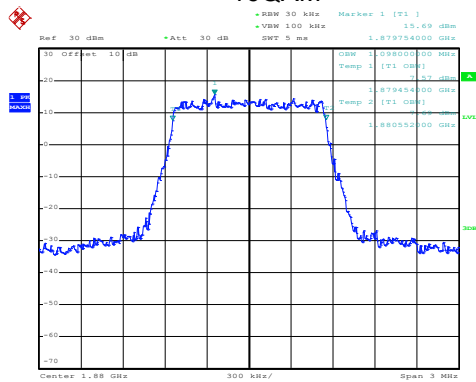
QPSK



Date: 18.JAN.2021 16:19:06

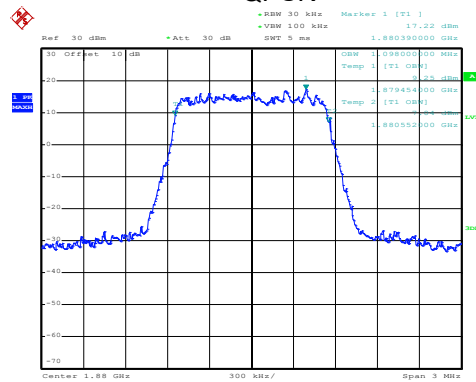
Lowest channel

16QAM



Date: 18.JAN.2021 16:19:43

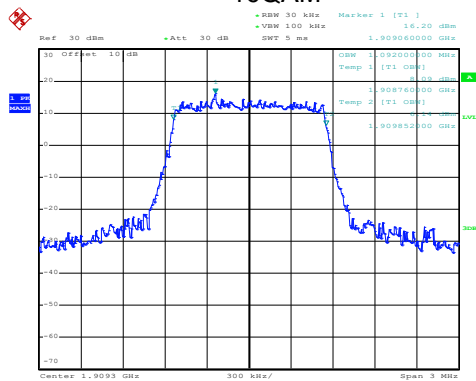
QPSK



Date: 18.JAN.2021 16:19:39

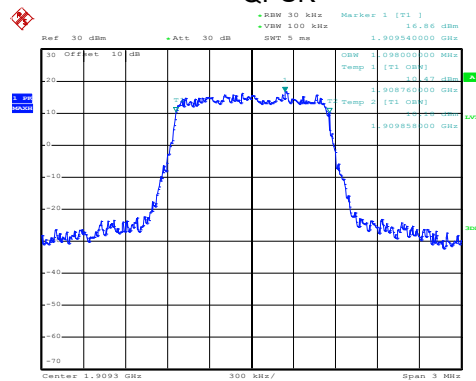
Middle channel

16QAM



Date: 18.JAN.2021 16:19:57

QPSK

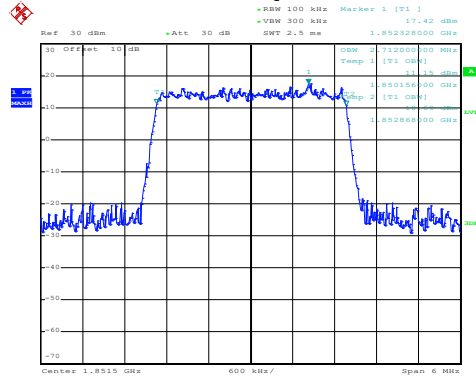


Date: 18.JAN.2021 16:19:53

Highest channel

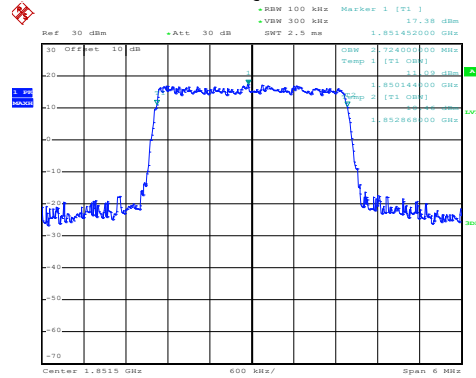
LTE Band 2: 99% Occupancy bandwidth  
BW: 3MHz

16QAM



Date: 18.JAN.2021 16:20:42

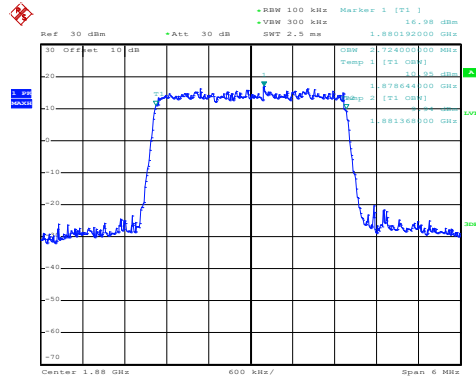
QPSK



Date: 18.JAN.2021 16:20:38

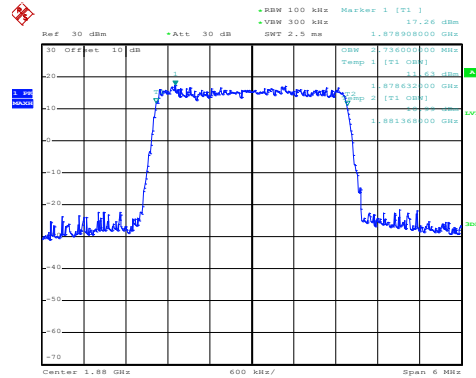
Lowest channel

16QAM



Date: 18.JAN.2021 16:20:55

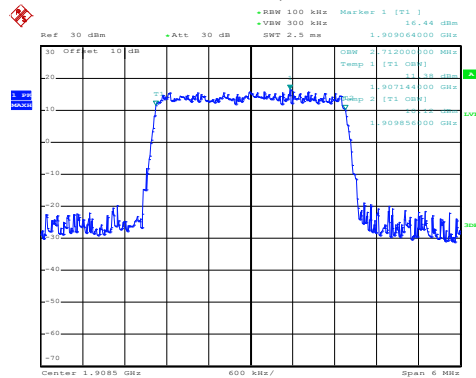
QPSK



Date: 18.JAN.2021 16:20:50

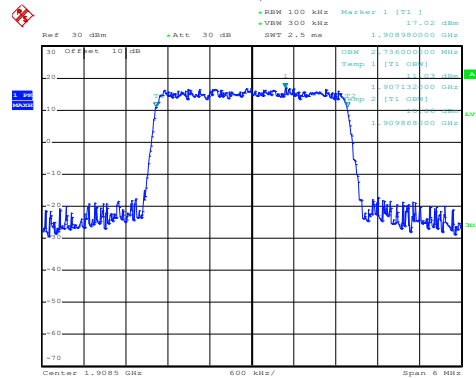
Middle channel

16QAM



Date: 18.JAN.2021 16:21:31

QPSK

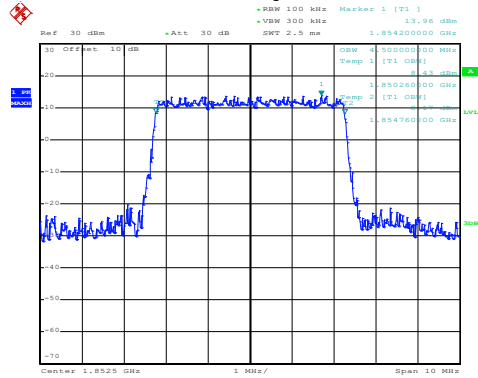


Date: 18.JAN.2021 16:21:27

Highest channel

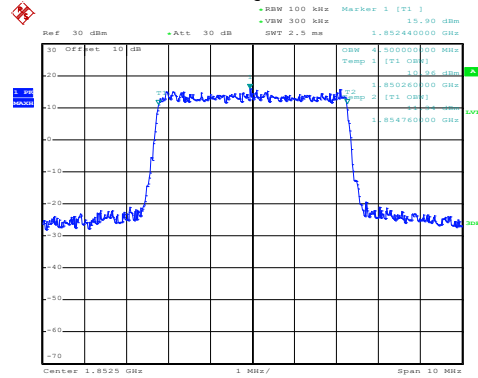
LTE Band 2: 99% Occupancy bandwidth  
BW: 5MHz

16QAM



Date: 18.JAN.2021 16:21:50

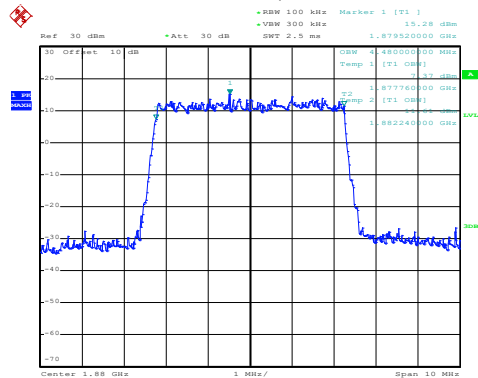
QPSK



Date: 18.JAN.2021 16:21:46

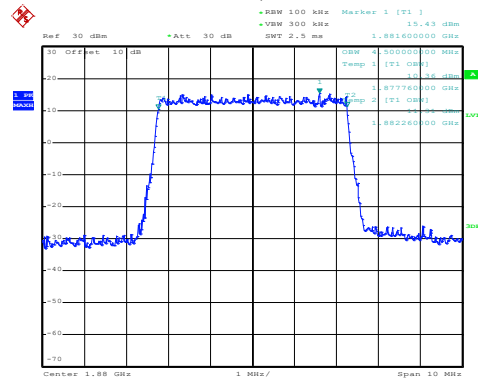
Lowest channel

16QAM



Date: 18.JAN.2021 16:22:22

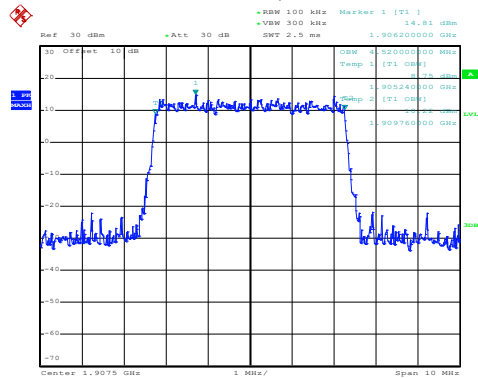
QPSK



Date: 18.JAN.2021 16:22:18

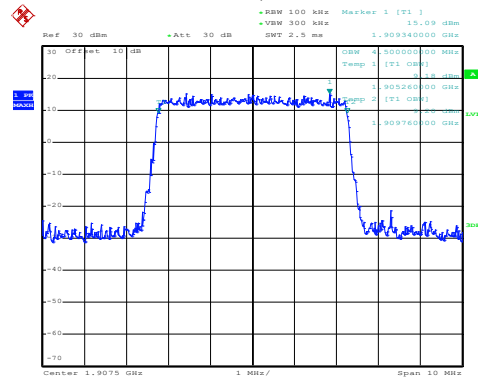
Middle channel

16QAM



Date: 18.JAN.2021 16:22:35

QPSK

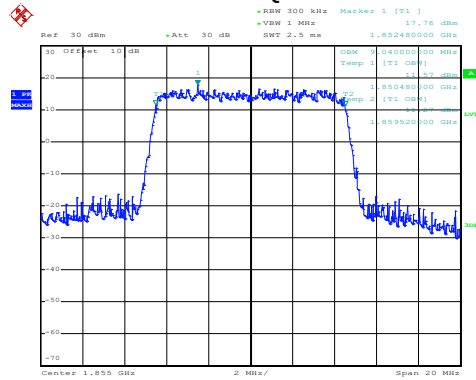


Date: 18.JAN.2021 16:22:31

Highest channel

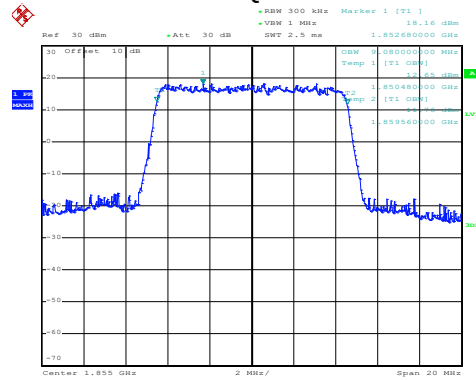
# LTE Band 2: 99% Occupancy bandwidth BW: 10MHz

## 16QAM



Date: 18.JAN.2021 16:23:39

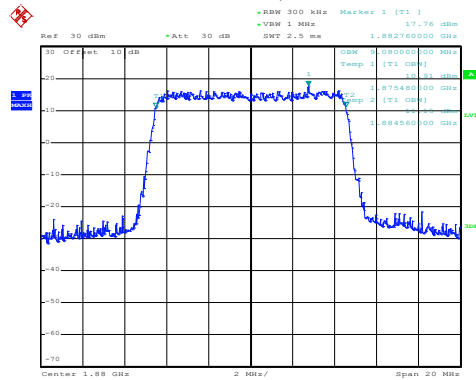
## QPSK



Date: 18.JAN.2021 16:23:35

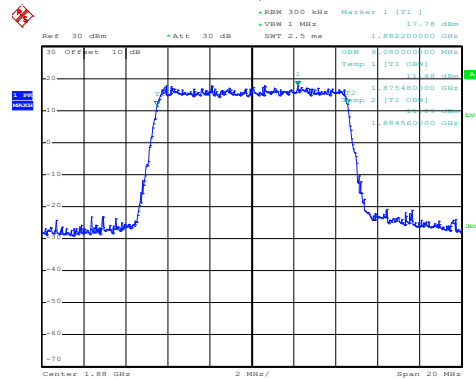
## Lowest channel

## 16QAM



Date: 18.JAN.2021 16:23:52

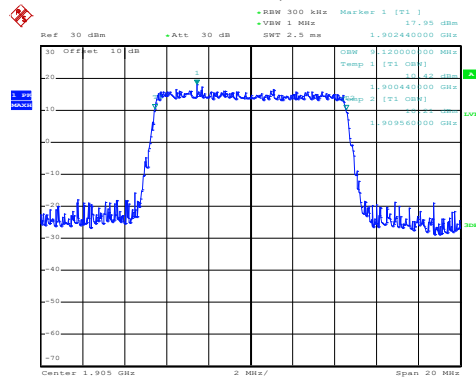
## QPSK



Date: 18.JAN.2021 16:23:47

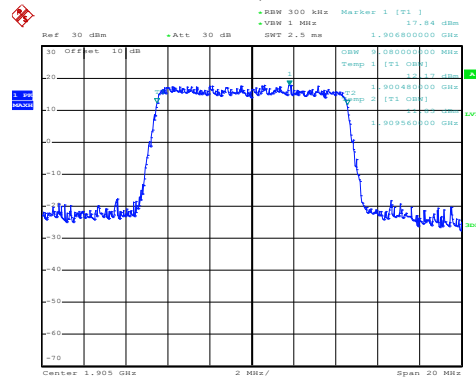
## Middle channel

## 16QAM



Date: 18.JAN.2021 16:24:40

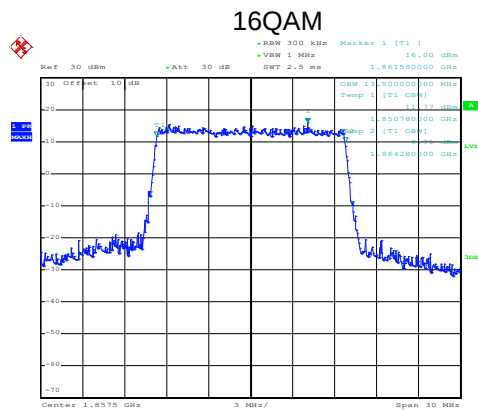
## QPSK



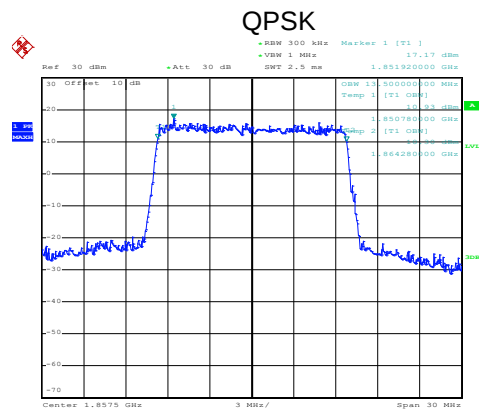
Date: 18.JAN.2021 16:24:35

## Highest channel

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

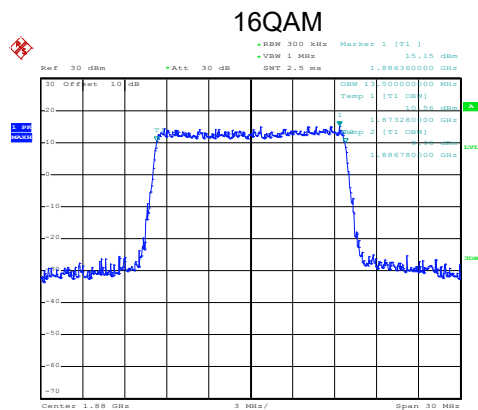


Date: 18.JAN.2021 16:25:57

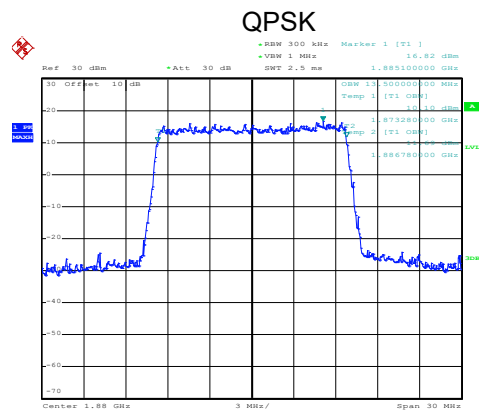


Date: 18.JAN.2021 16:25:51

Lowest channel

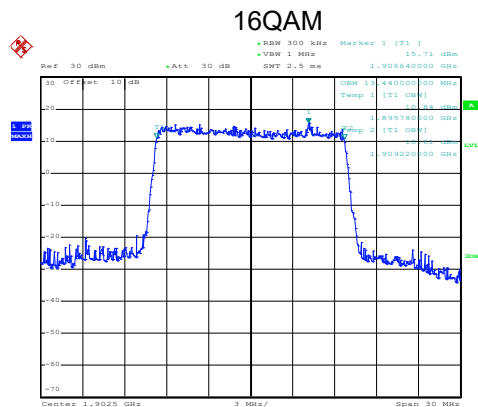


Date: 18.JAN.2021 16:25:37

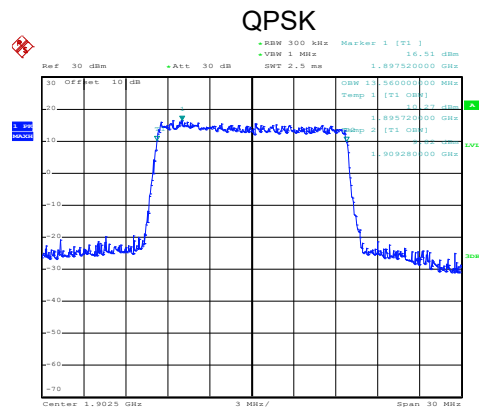


Date: 18.JAN.2021 16:25:31

Middle channel



Date: 18.JAN.2021 16:25:04

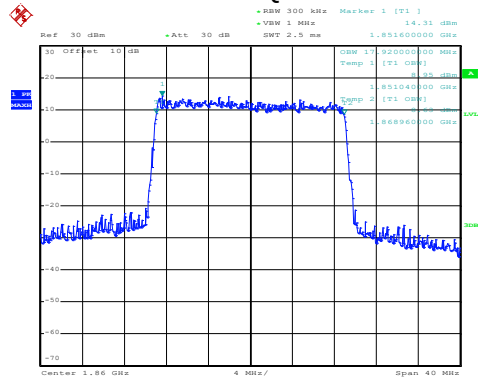


Date: 18.JAN.2021 16:24:58

## Highest channel

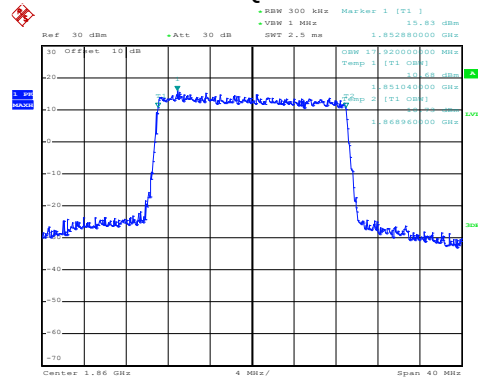
LTE Band 2: 99% Occupancy bandwidth  
BW: 20MHz

16QAM



Date: 18.JAN.2021 16:26:41

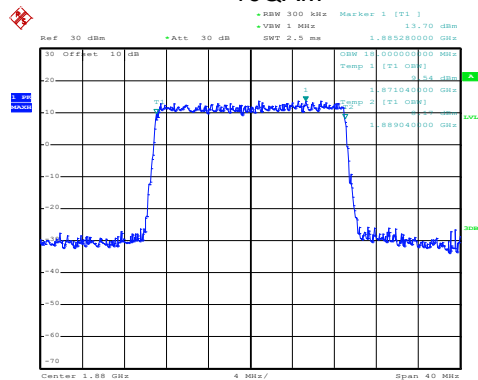
QPSK



Date: 18.JAN.2021 16:26:37

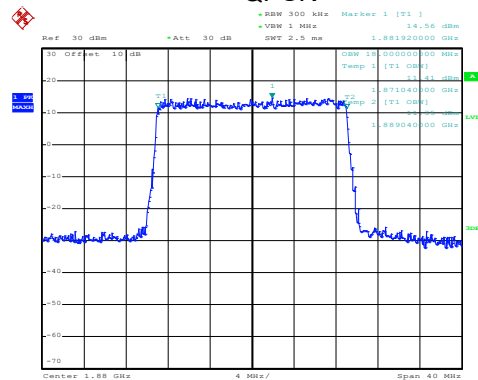
Lowest channel

16QAM



Date: 18.JAN.2021 16:26:52

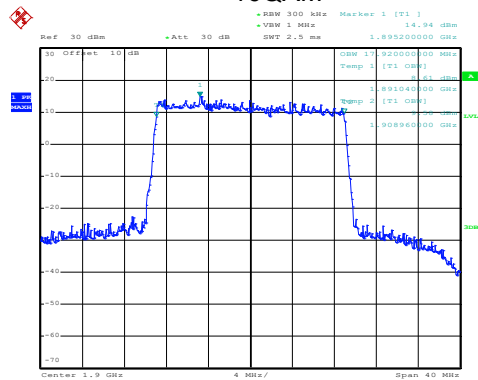
QPSK



Date: 18.JAN.2021 16:26:47

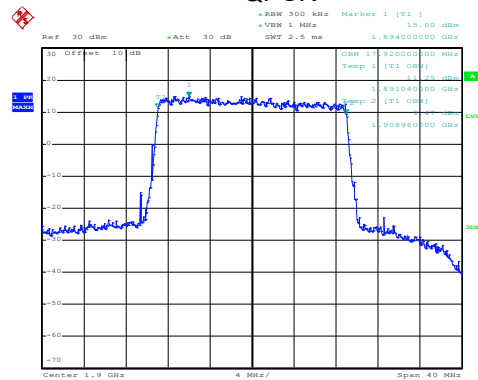
Middle channel

16QAM



Date: 18.JAN.2021 16:27:29

QPSK

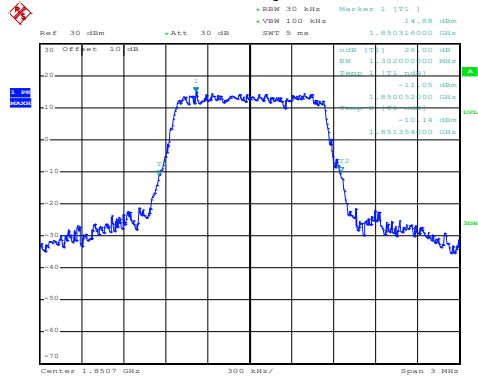


Date: 18.JAN.2021 16:27:25

Highest channel

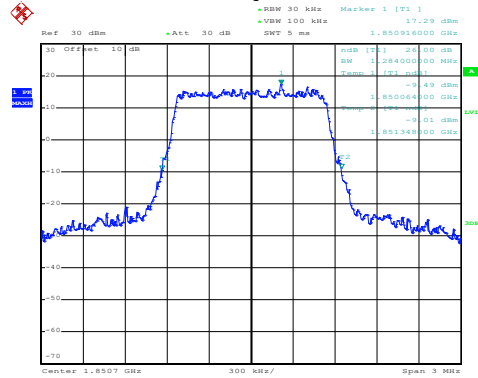
LTE Band 2: -26dBc bandwidth  
BW: 1.4MHz

16QAM



Date: 18.JAN.2021 16:19:21

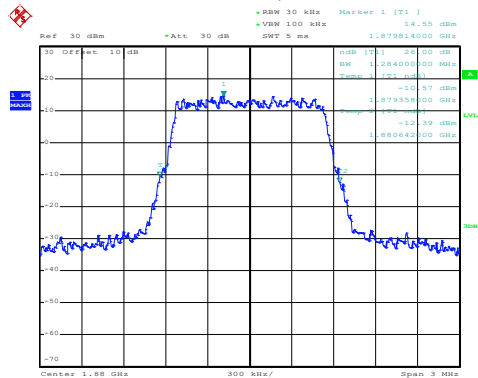
QPSK



Date: 18.JAN.2021 16:19:17

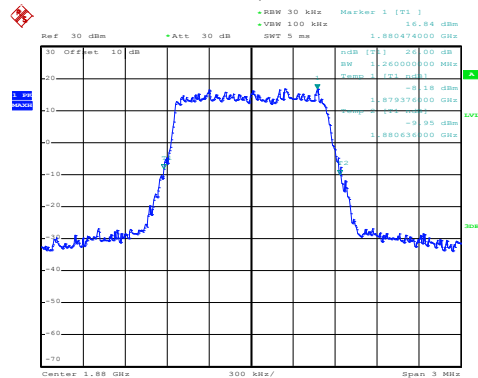
Lowest channel

16QAM



Date: 18.JAN.2021 16:19:33

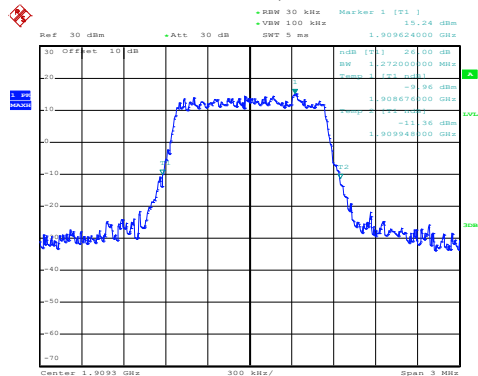
QPSK



Date: 18.JAN.2021 16:19:29

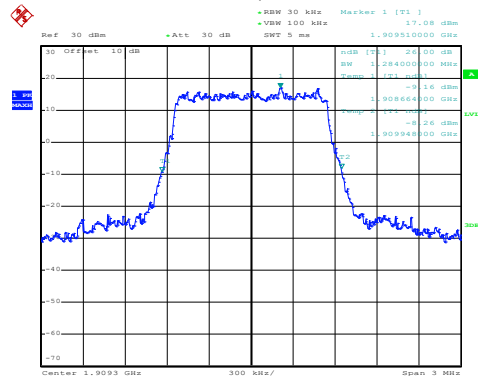
Middle channel

16QAM



Date: 18.JAN.2021 16:20:08

QPSK

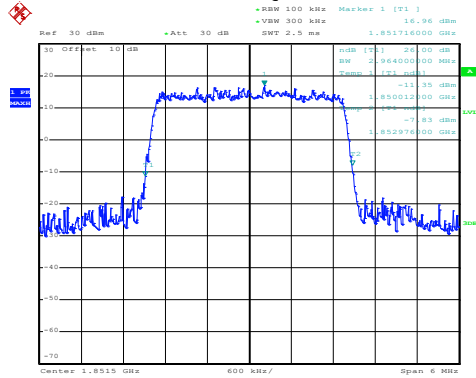


Date: 18.JAN.2021 16:20:04

Highest channel

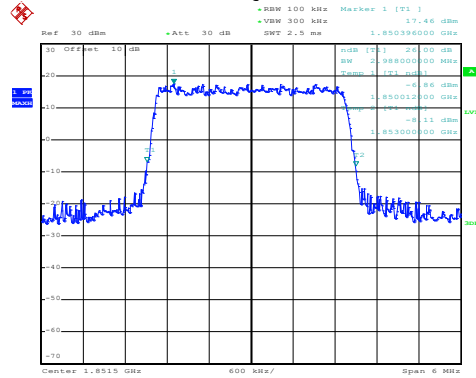
LTE Band 2: -26dBc bandwidth  
BW: 3MHz

16QAM



Date: 18.JAN.2021 16:20:32

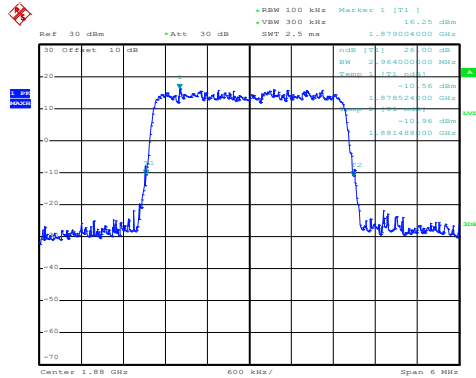
QPSK



Date: 18.JAN.2021 16:20:27

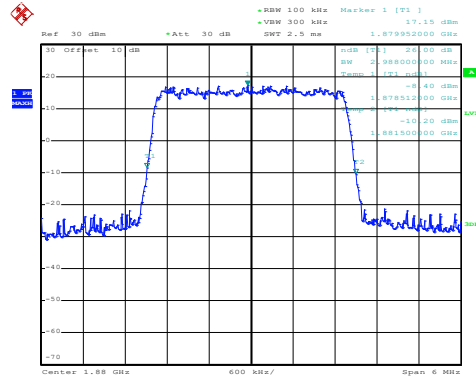
Lowest channel

16QAM



Date: 18.JAN.2021 16:21:05

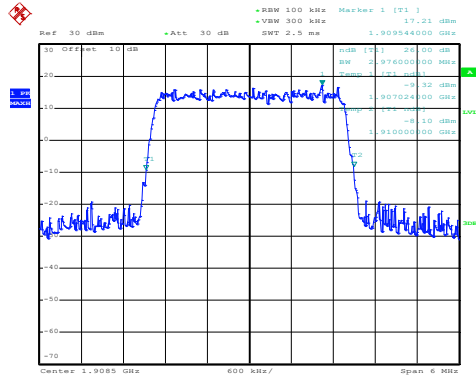
QPSK



Date: 18.JAN.2021 16:21:01

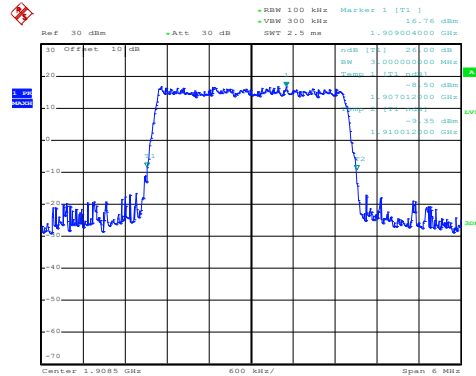
Middle channel

16QAM



Date: 18.JAN.2021 16:21:21

QPSK

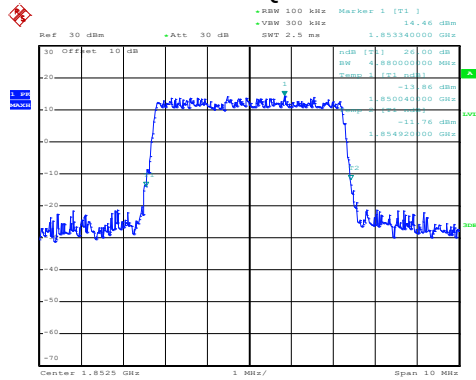


Date: 18.JAN.2021 16:21:16

Highest channel

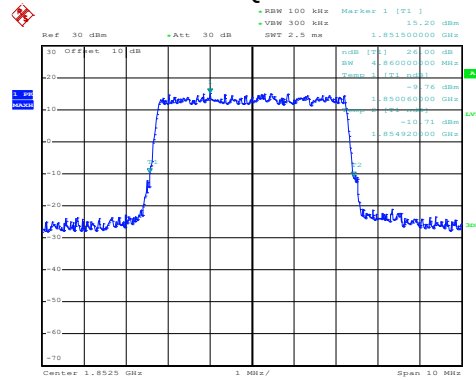
LTE Band 2: -26dBc bandwidth  
BW: 5MHz

16QAM



Date: 18.JAN.2021 16:22:00

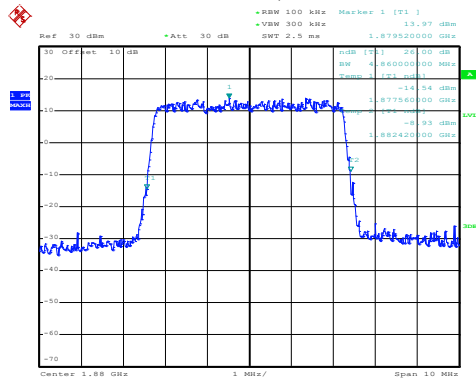
QPSK



Date: 18.JAN.2021 16:21:56

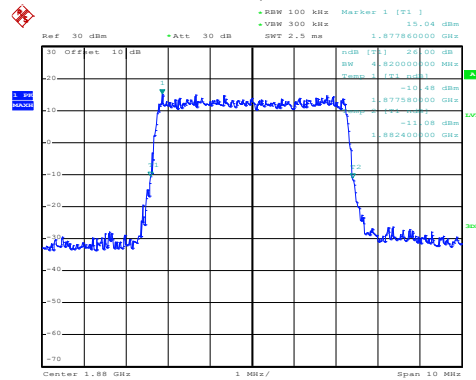
Lowest channel

16QAM



Date: 18.JAN.2021 16:22:11

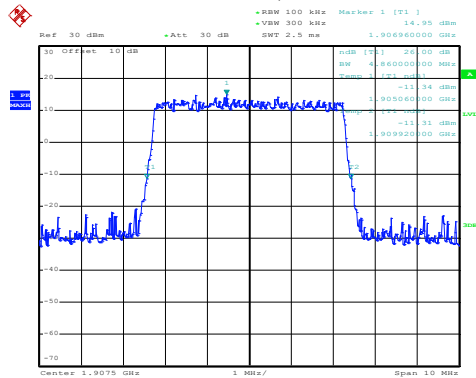
QPSK



Date: 18.JAN.2021 16:22:07

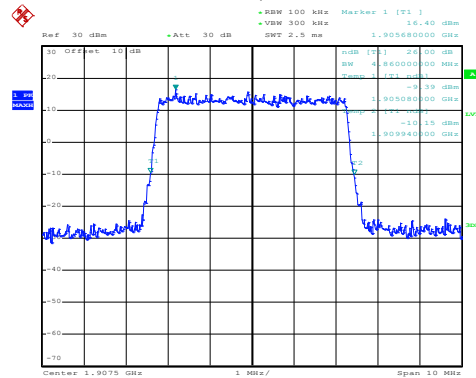
Middle channel

16QAM



Date: 18.JAN.2021 16:22:46

QPSK

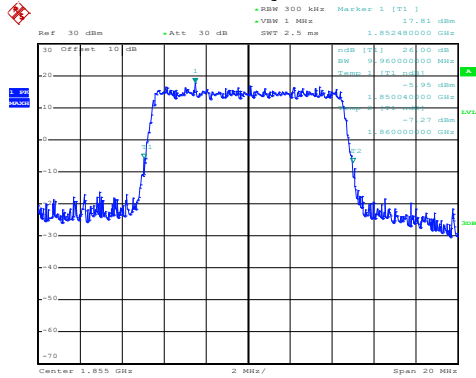


Date: 18.JAN.2021 16:22:42

Highest channel

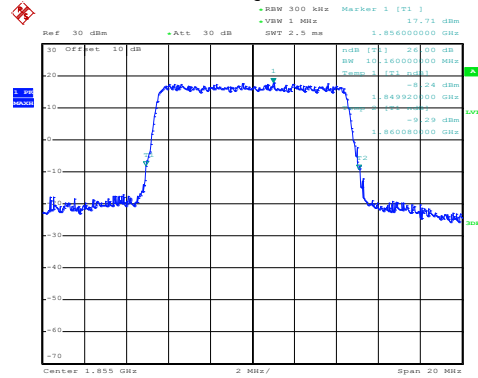
# LTE Band 2: -26dBc bandwidth BW: 10MHz

## 16QAM



Date: 18.JAN.2021 16:23:23

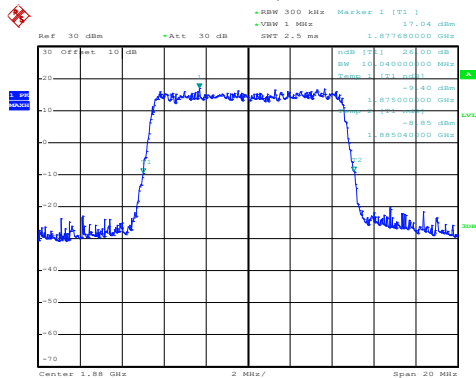
## QPSK



Date: 18.JAN.2021 16:23:19

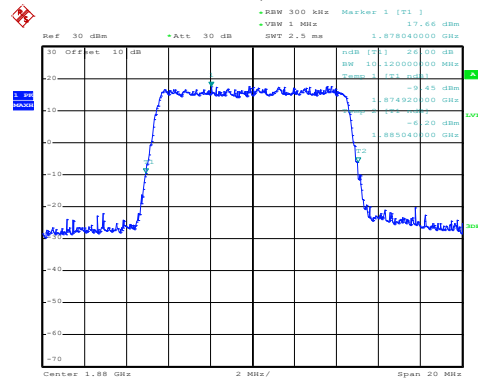
## Lowest channel

## 16QAM



Date: 18.JAN.2021 16:24:02

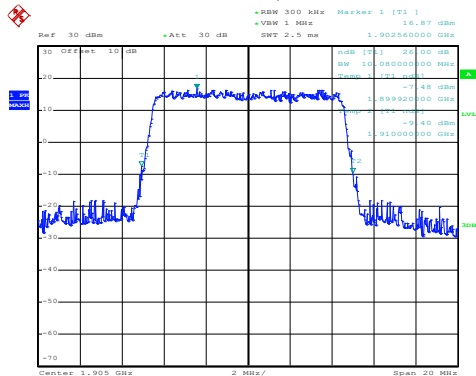
## QPSK



Date: 18.JAN.2021 16:23:58

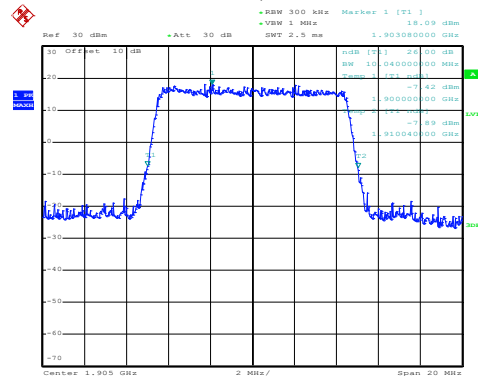
## Middle channel

## 16QAM



Date: 18.JAN.2021 16:24:29

## QPSK

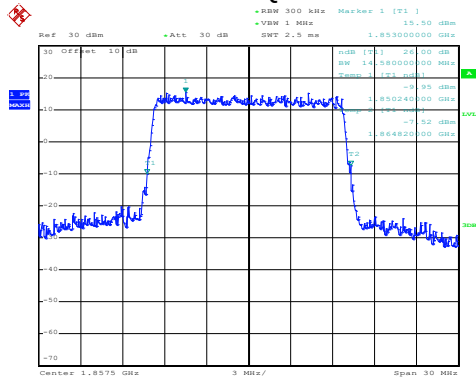


Date: 18.JAN.2021 16:24:24

## Highest channel

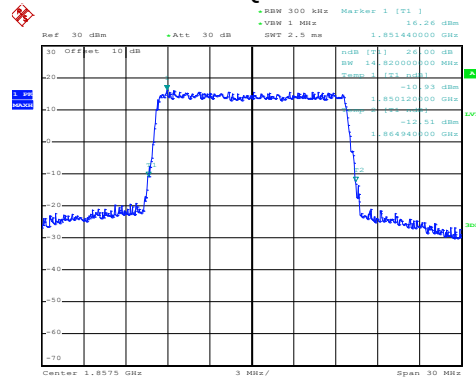
LTE Band 2: -26dBc bandwidth  
BW: 15MHz

16QAM



Date: 18.JAN.2021 16:26:08

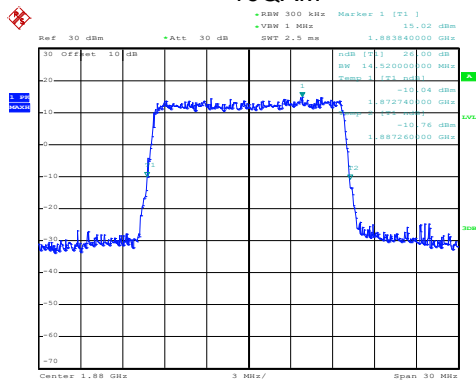
QPSK



Date: 18.JAN.2021 16:26:04

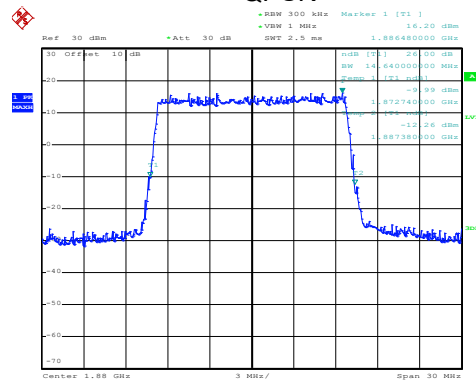
Lowest channel

16QAM



Date: 18.JAN.2021 16:25:25

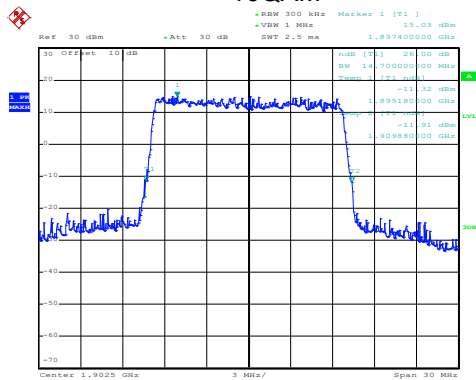
QPSK



Date: 18.JAN.2021 16:25:21

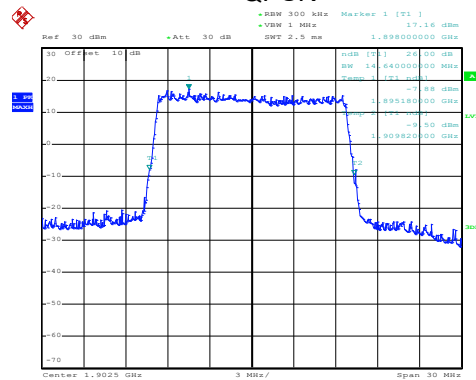
Middle channel

16QAM



Date: 18.JAN.2021 16:25:15

QPSK

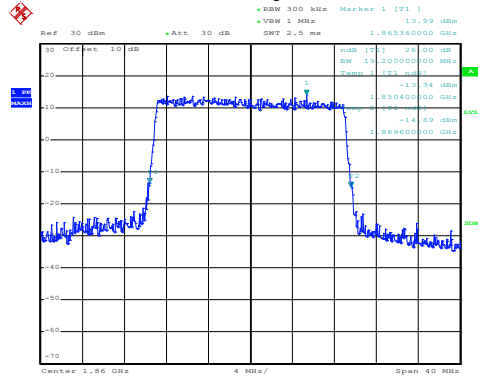


Date: 18.JAN.2021 16:25:10

Highest channel

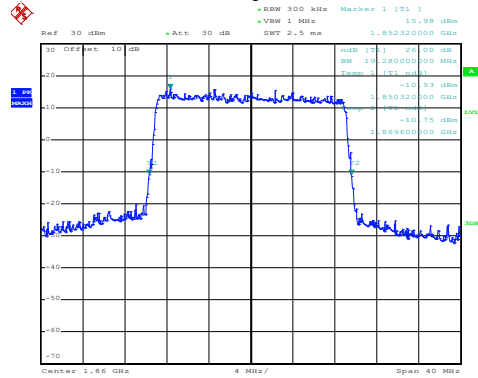
LTE Band 2: -26dBc bandwidth  
BW: 20MHz

16QAM



Date: 18.JAN.2021 16:26:31

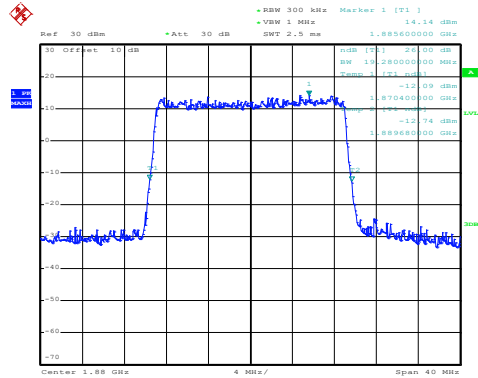
QPSK



Date: 18.JAN.2021 16:26:27

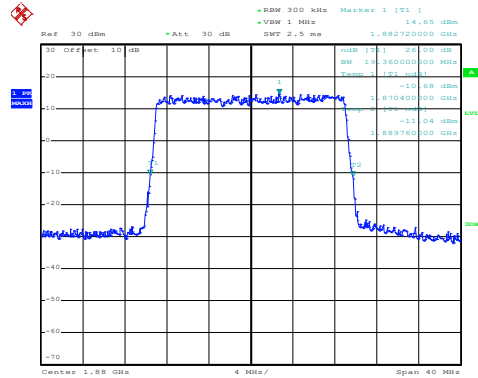
Lowest channel

16QAM



Date: 18.JAN.2021 16:27:01

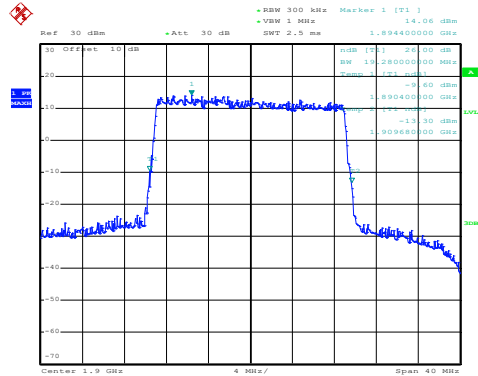
QPSK



Date: 18.JAN.2021 16:26:57

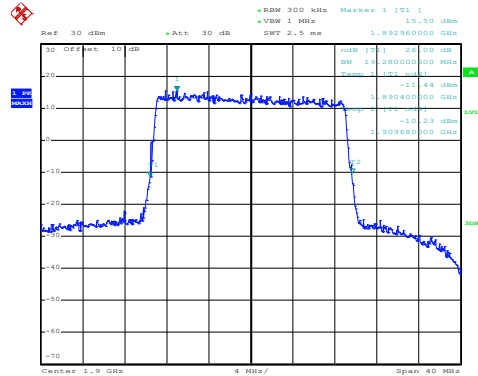
Middle channel

16QAM



Date: 18.JAN.2021 16:27:17

QPSK

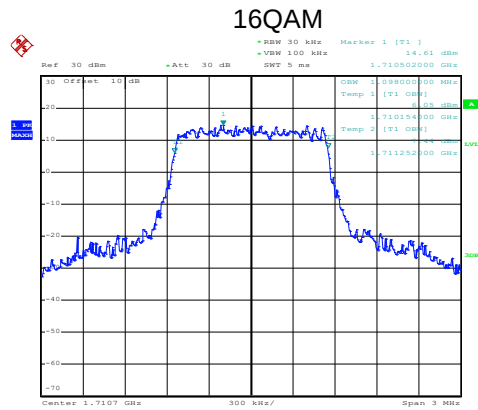


Date: 18.JAN.2021 16:27:13

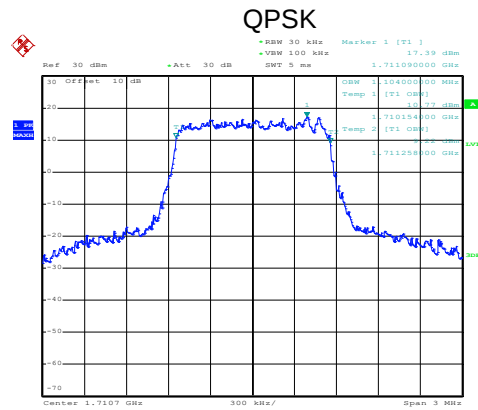
Highest channel

## LTE Band 4 part:

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

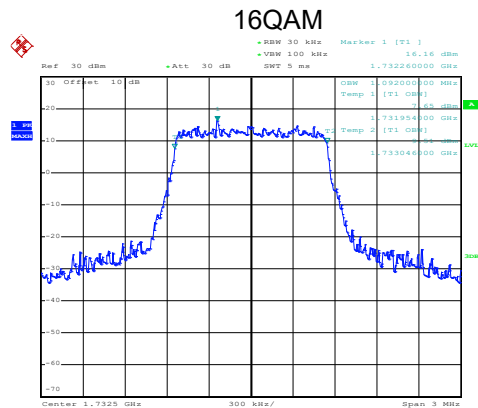


Date: 18.JAN.2021 16:10:10

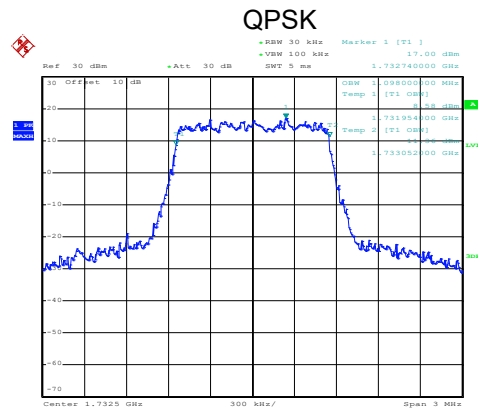


Date: 18.JAN.2021 16:10:06

### Lowest channel

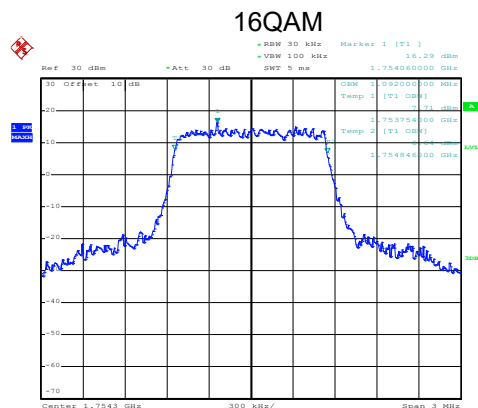


Date: 18.JAN.2021 16:10:45

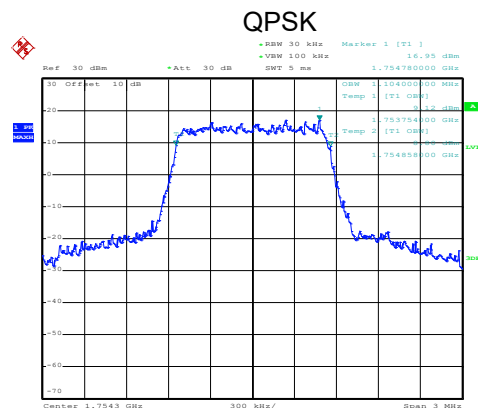


Date: 18.JAN.2021 16:10:42

### Middle channel



Date: 18.JAN.2021 16:11:02

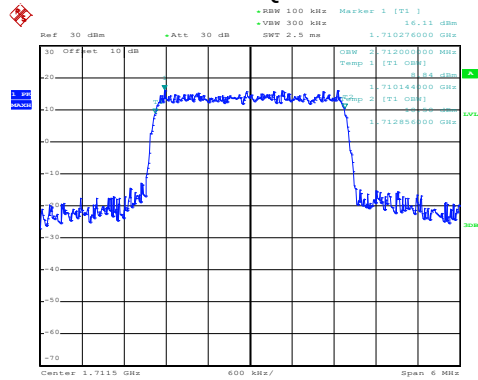


Date: 18.JAN.2021 16:10:57

### Highest channel

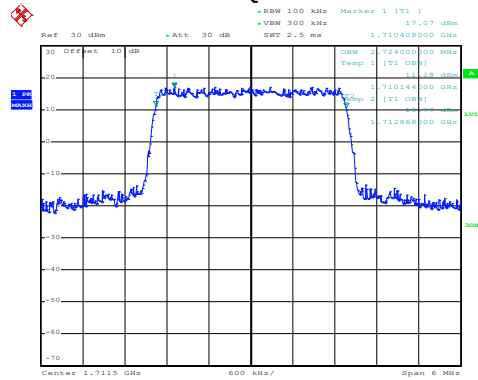
LTE Band 4: 99% Occupancy bandwidth  
BW: 3MHz

16QAM



Date: 18.JAN.2021 16:11:50

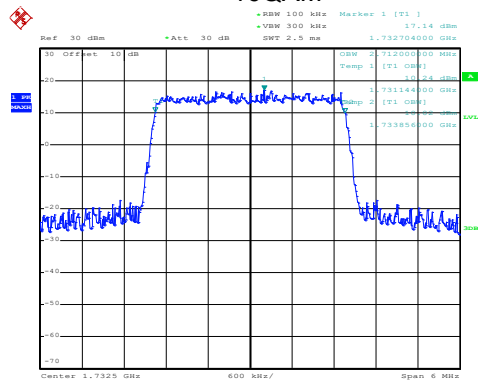
QPSK



Date: 18.JAN.2021 16:11:47

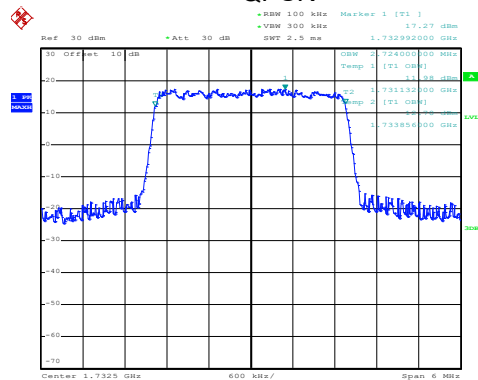
Lowest channel

16QAM



Date: 18.JAN.2021 16:12:14

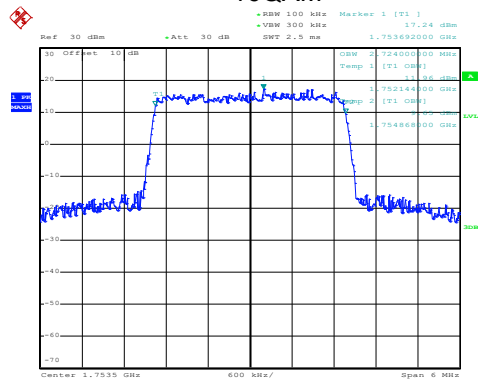
QPSK



Date: 18.JAN.2021 16:12:09

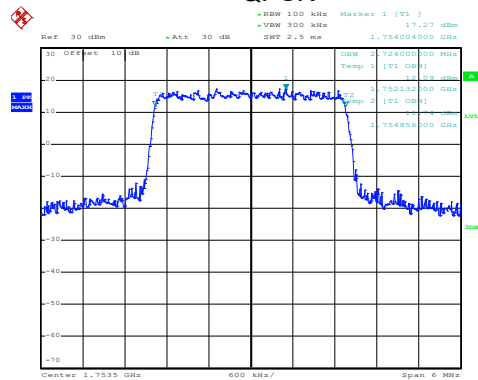
Middle channel

16QAM



Date: 18.JAN.2021 16:12:51

QPSK

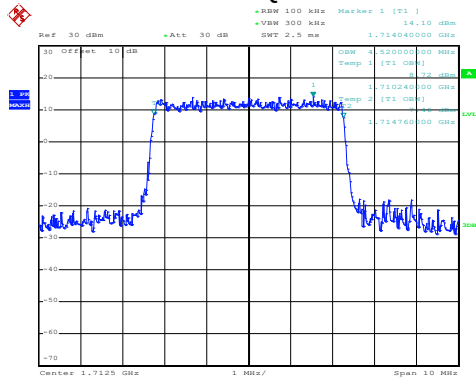


Date: 18.JAN.2021 16:12:45

Highest channel

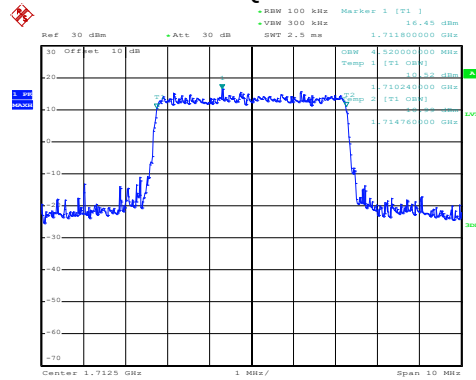
LTE Band 4: 99% Occupancy bandwidth  
BW: 5MHz

16QAM



Date: 18.JAN.2021 16:13:18

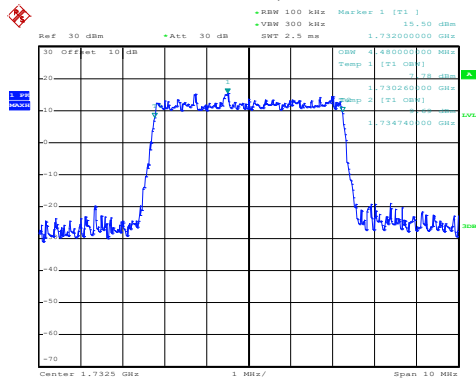
QPSK



Date: 18.JAN.2021 16:13:14

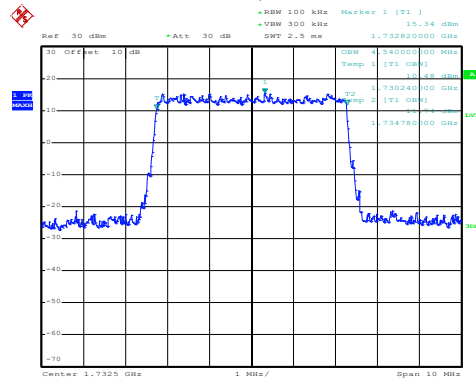
Lowest channel

16QAM



Date: 18.JAN.2021 16:13:56

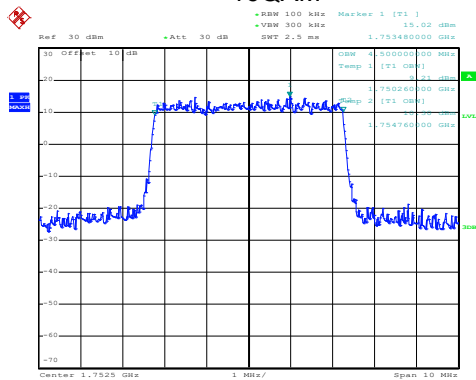
QPSK



Date: 18.JAN.2021 16:13:52

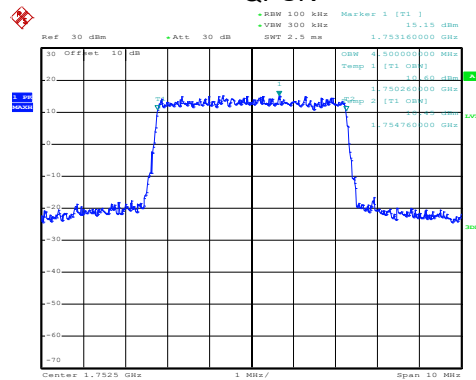
Middle channel

16QAM



Date: 18.JAN.2021 16:14:11

QPSK

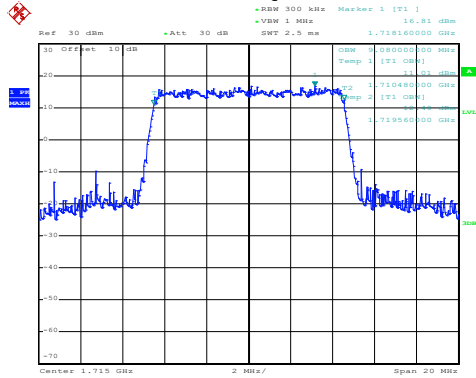


Date: 18.JAN.2021 16:14:08

Highest channel

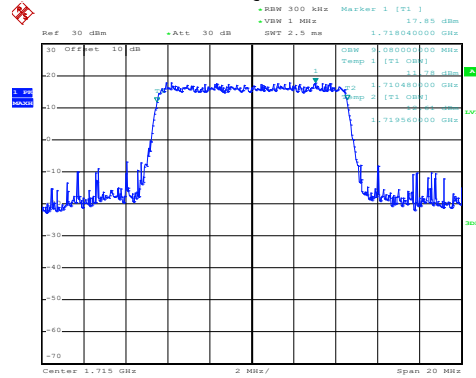
LTE Band 4: 99% Occupancy bandwidth  
BW: 10MHz

16QAM



Date: 18.JAN.2021 16:15:00

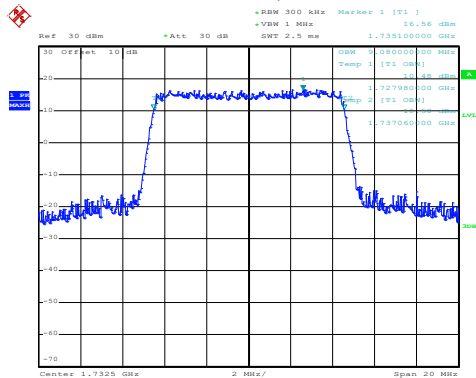
QPSK



Date: 18.JAN.2021 16:14:56

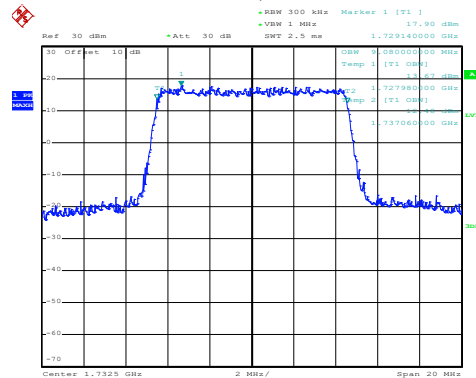
Lowest channel

16QAM



Date: 18.JAN.2021 16:15:16

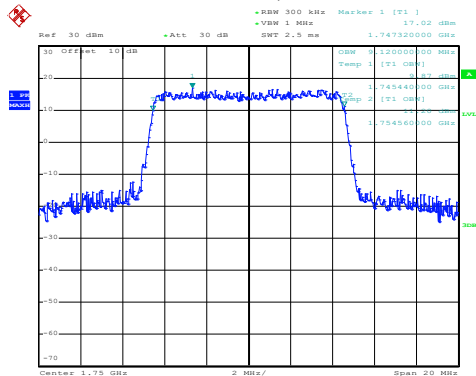
QPSK



Date: 18.JAN.2021 16:15:12

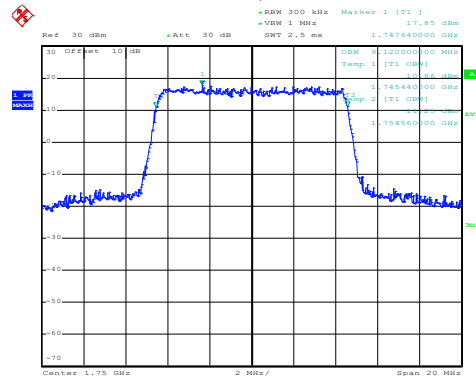
Middle channel

16QAM



Date: 18.JAN.2021 16:15:55

QPSK

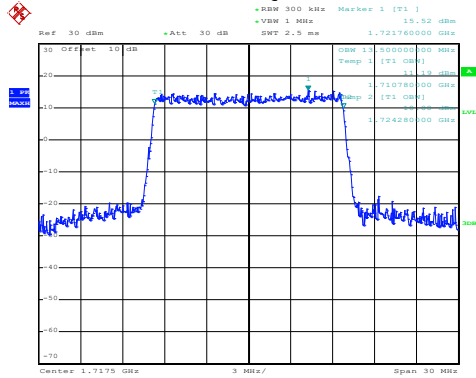


Date: 18.JAN.2021 16:15:51

Highest channel

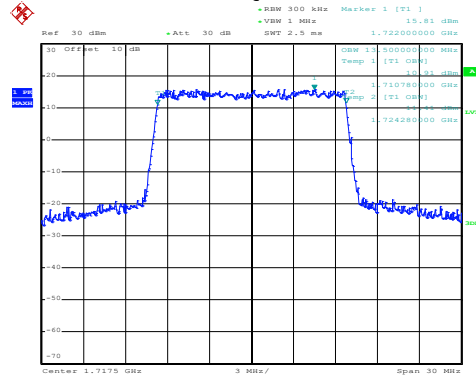
LTE Band 4: 99% Occupancy bandwidth  
BW: 15MHz

16QAM



Date: 18.JAN.2021 16:17:10

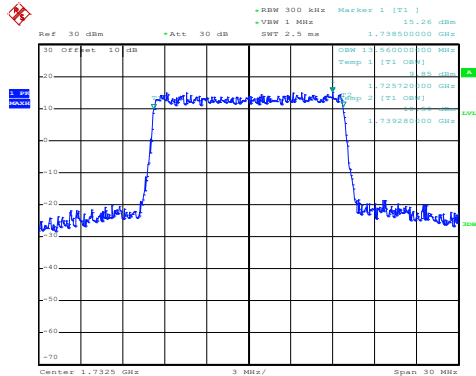
QPSK



Date: 18.JAN.2021 16:17:06

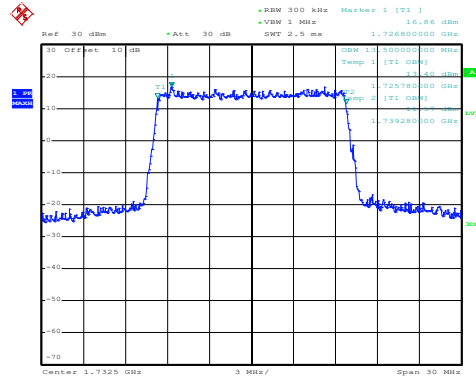
Lowest channel

16QAM



Date: 18.JAN.2021 16:16:56

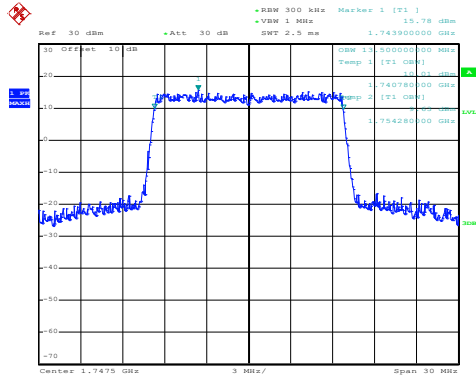
QPSK



Date: 18.JAN.2021 16:16:51

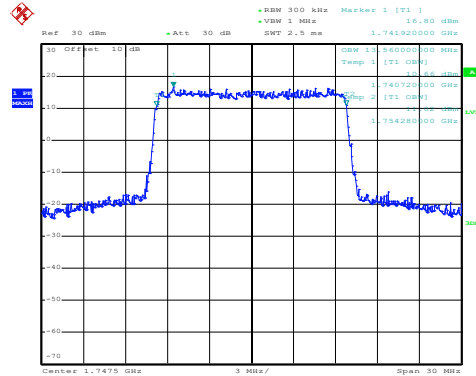
Middle channel

16QAM



Date: 18.JAN.2021 16:16:23

QPSK

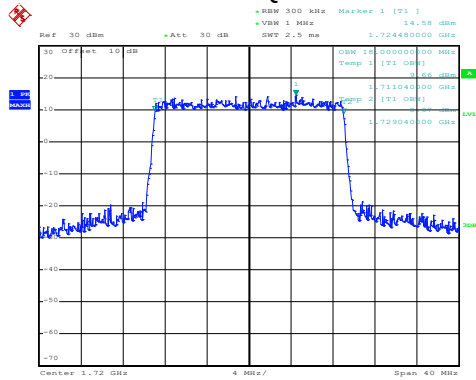


Date: 18.JAN.2021 16:16:18

Highest channel

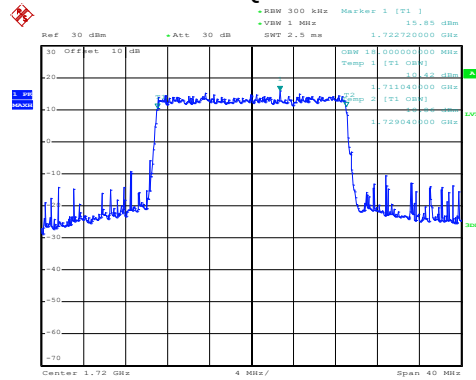
LTE Band 4: 99% Occupancy bandwidth  
BW: 20MHz

16QAM



Date: 18.JAN.2021 16:17:53

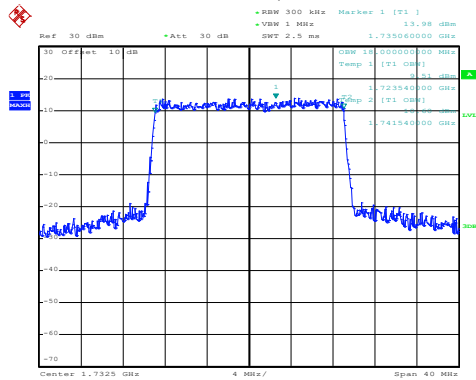
QPSK



Date: 18.JAN.2021 16:17:50

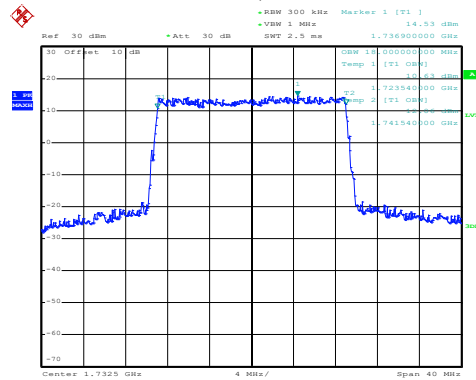
Lowest channel

16QAM



Date: 18.JAN.2021 16:18:09

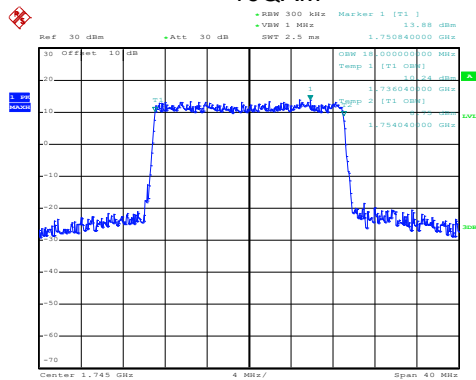
QPSK



Date: 18.JAN.2021 16:18:04

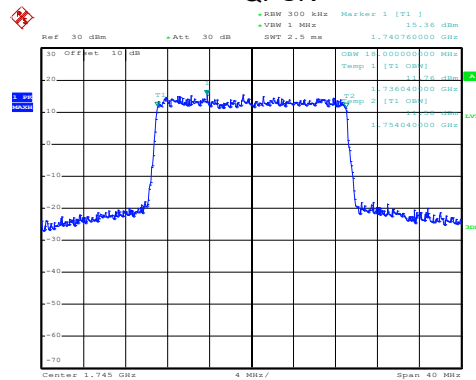
Middle channel

16QAM



Date: 18.JAN.2021 16:18:44

QPSK

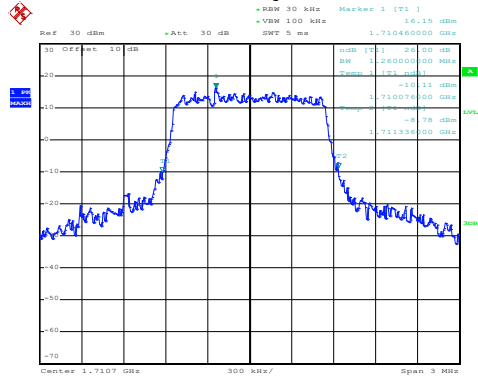


Date: 18.JAN.2021 16:18:40

Highest channel

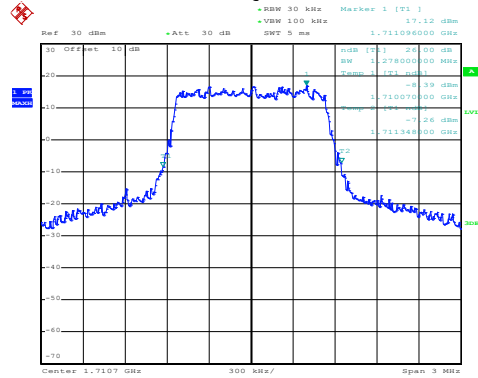
LTE Band 4: -26dBc bandwidth  
BW: 1.4MHz

16QAM



Date: 18.JAN.2021 16:10:20

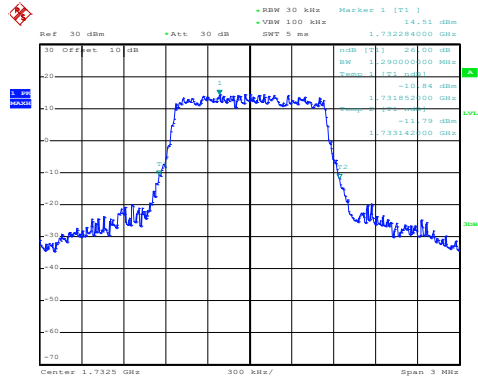
QPSK



Date: 18.JAN.2021 16:10:16

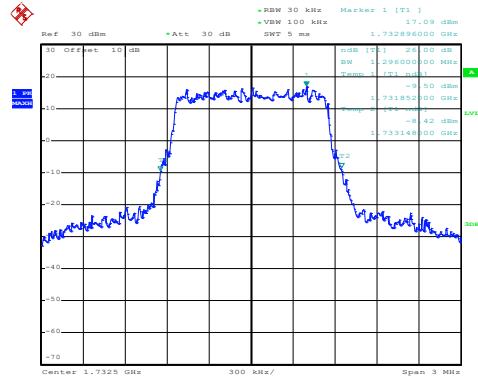
Lowest channel

16QAM



Date: 18.JAN.2021 16:10:35

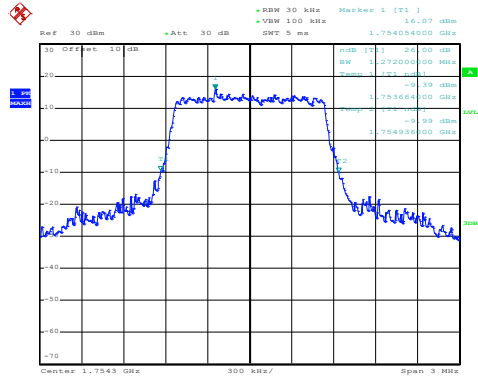
QPSK



Date: 18.JAN.2021 16:10:31

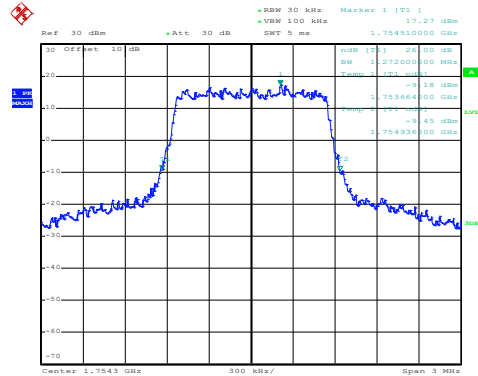
Middle channel

16QAM



Date: 18.JAN.2021 16:11:13

QPSK

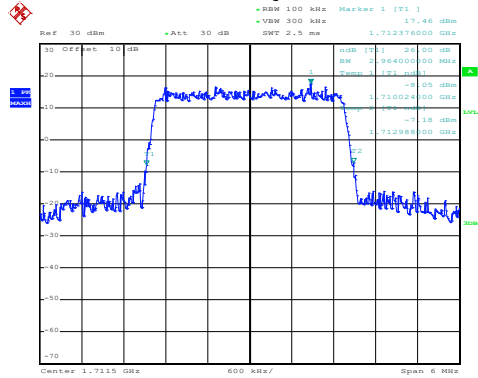


Date: 18.JAN.2021 16:11:08

Highest channel

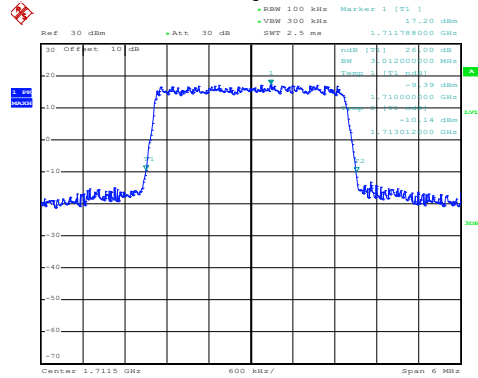
LTE Band 4: -26dBc bandwidth  
BW: 3MHz

16QAM



Date: 18.JAN.2021 16:11:40

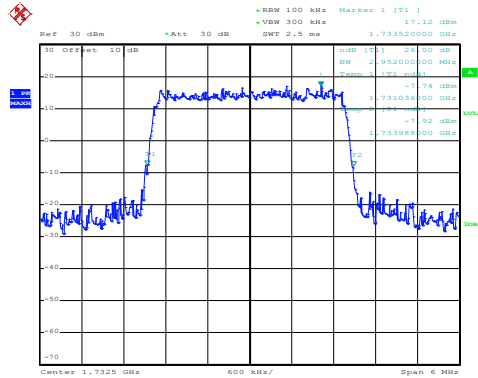
QPSK



Date: 18.JAN.2021 16:11:37

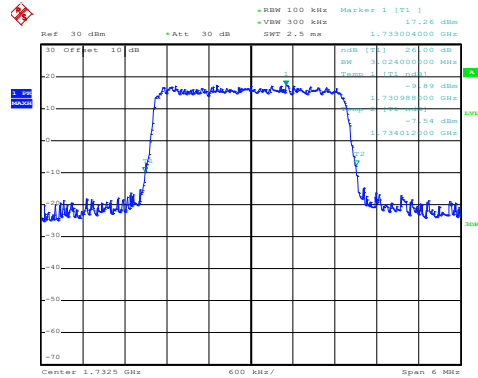
Lowest channel

16QAM



Date: 18.JAN.2021 16:12:24

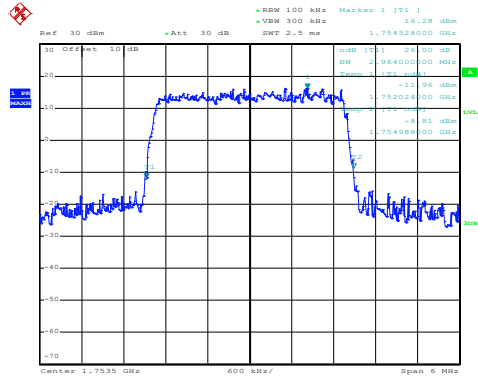
QPSK



Date: 18.JAN.2021 16:12:20

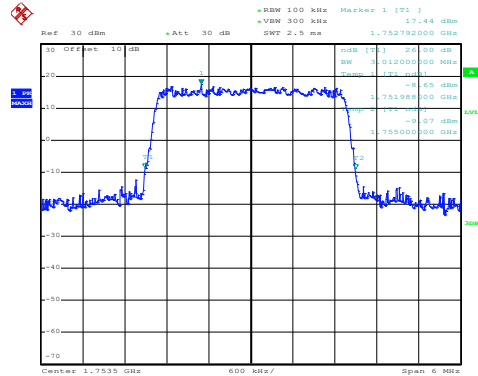
Middle channel

16QAM



Date: 18.JAN.2021 16:12:40

QPSK

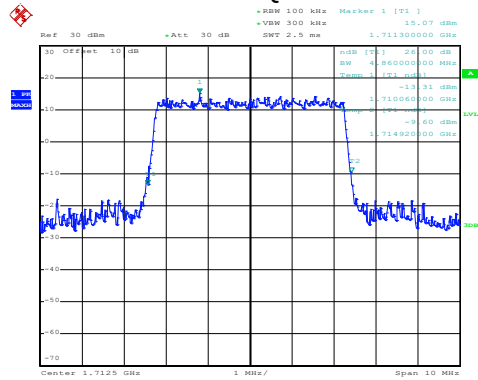


Date: 18.JAN.2021 16:12:36

Highest channel

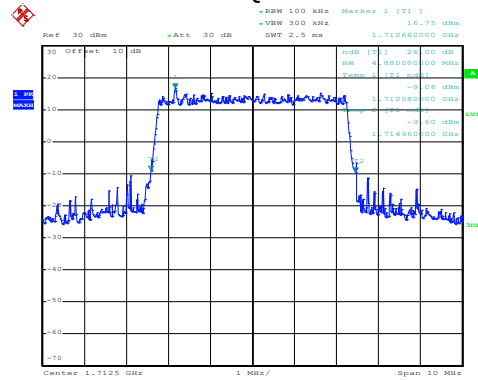
LTE Band 4: -26dBc bandwidth  
BW: 5MHz

16QAM



Date: 18.JAN.2021 16:13:29

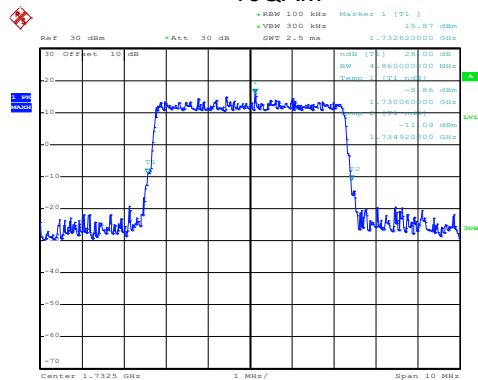
QPSK



Date: 18.JAN.2021 16:13:24

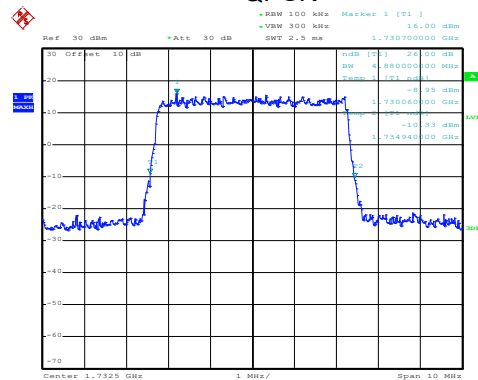
Lowest channel

16QAM



Date: 18.JAN.2021 16:13:45

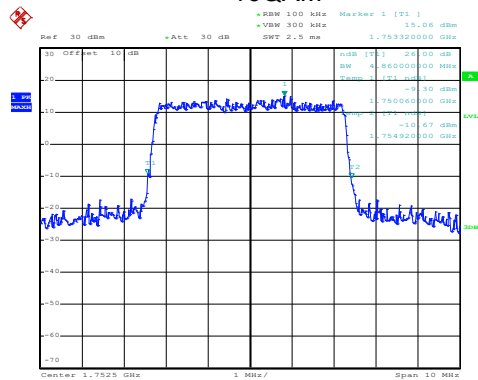
QPSK



Date: 18.JAN.2021 16:13:40

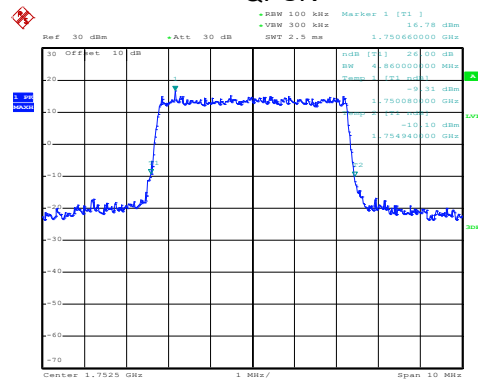
Middle channel

16QAM



Date: 18.JAN.2021 16:14:24

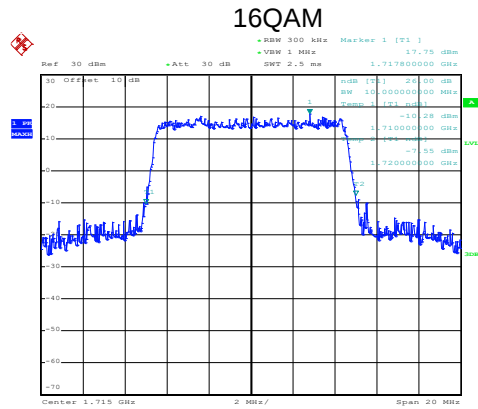
QPSK



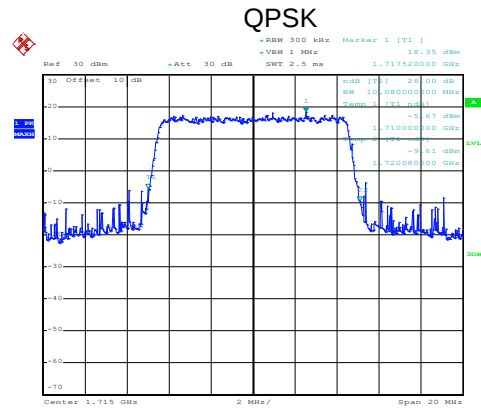
Date: 18.JAN.2021 16:14:19

Highest channel

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

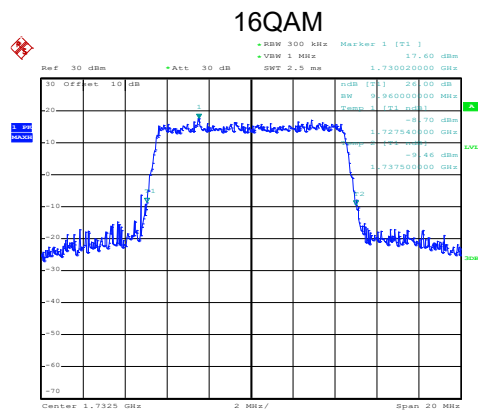


Date: 18.JAN.2021 16:14:50

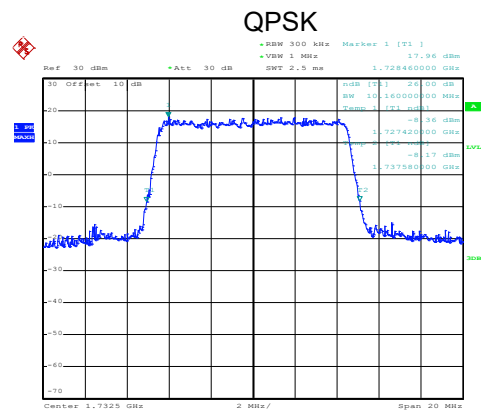


Date: 18.JAN.2021 16:14:46

Lowest channel

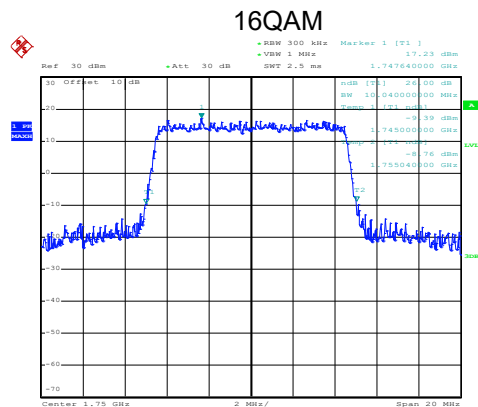


Date: 18.JAN.2021 16:15:27

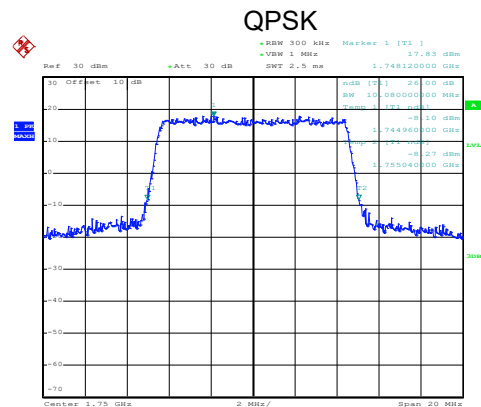


Date: 18.JAN.2021 16:15:23

Middle channel



Date: 18.JAN.2021 16:15:45

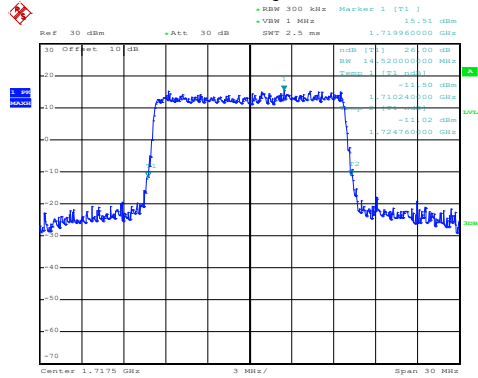


Date: 18.JAN.2021 16:15:41

## Highest channel

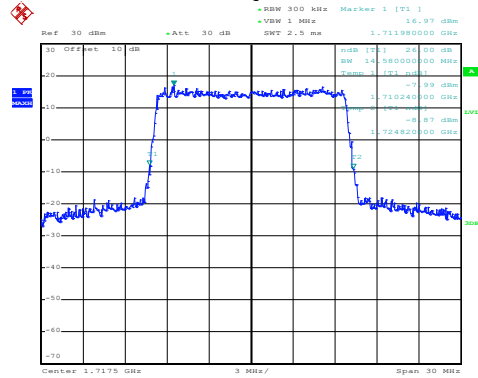
LTE Band 4: -26dBc bandwidth  
BW: 15MHz

16QAM



Date: 18.JAN.2021 16:17:20

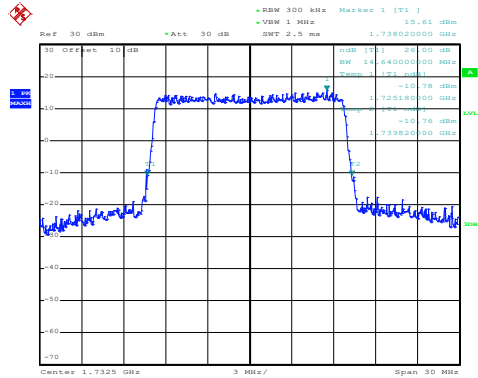
QPSK



Date: 18.JAN.2021 16:17:16

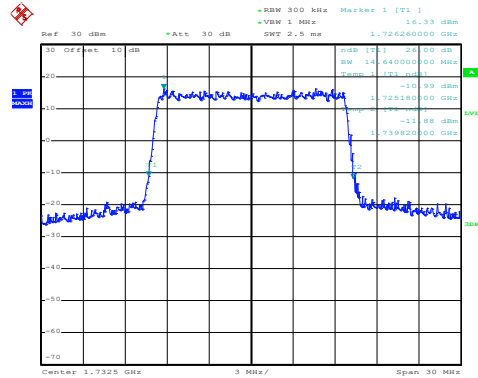
Lowest channel

16QAM



Date: 18.JAN.2021 16:16:45

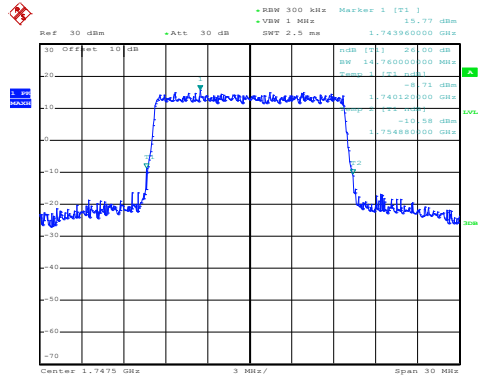
QPSK



Date: 18.JAN.2021 16:16:41

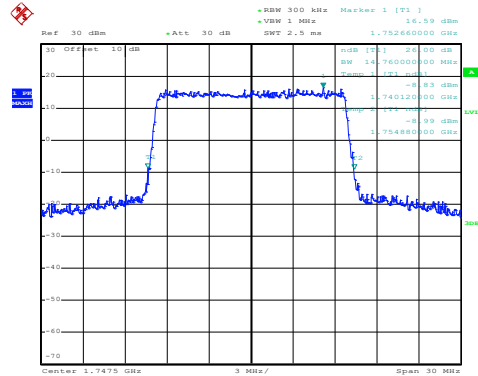
Middle channel

16QAM



Date: 18.JAN.2021 16:16:34

QPSK

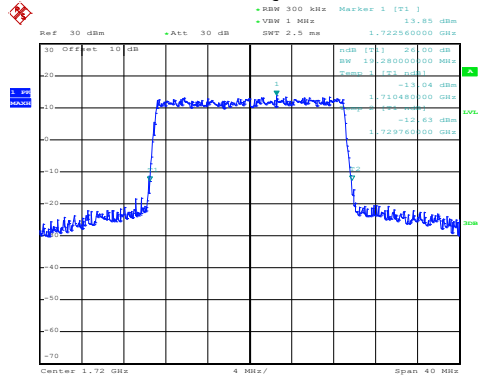


Date: 18.JAN.2021 16:16:29

Highest channel

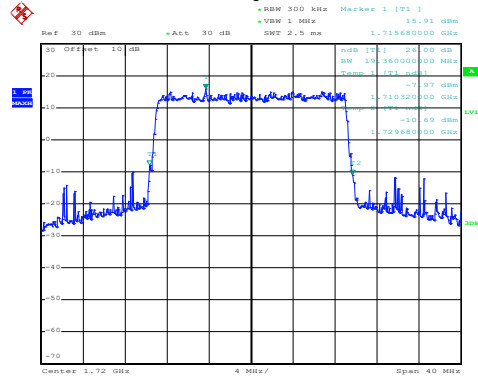
LTE Band 4: -26dBc bandwidth  
BW: 20MHz

16QAM



Date: 18.JAN.2021 16:17:43

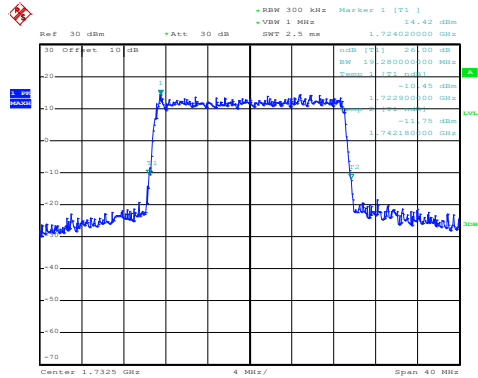
QPSK



Date: 18.JAN.2021 16:17:39

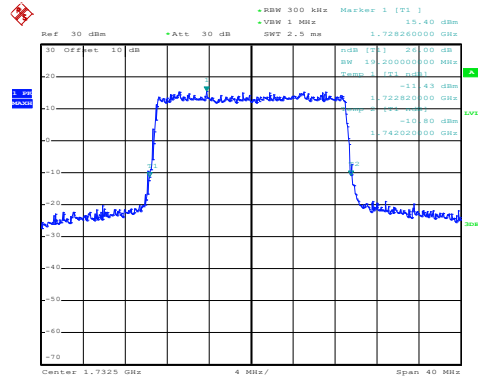
Lowest channel

16QAM



Date: 18.JAN.2021 16:18:19

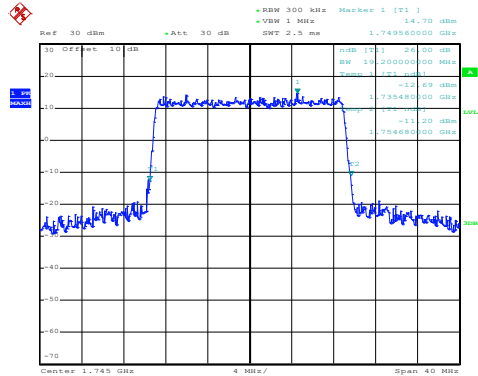
QPSK



Date: 18.JAN.2021 16:18:15

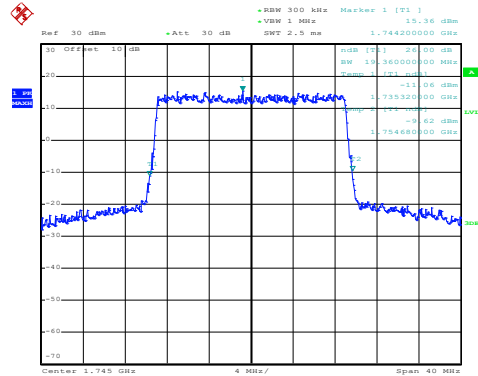
Middle channel

16QAM



Date: 18.JAN.2021 16:18:33

QPSK



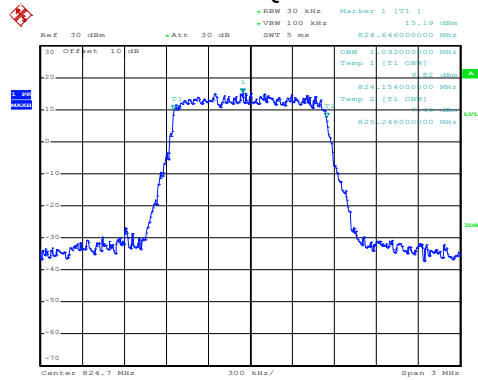
Date: 18.JAN.2021 16:18:29

Highest channel

## LTE Band 5 part:

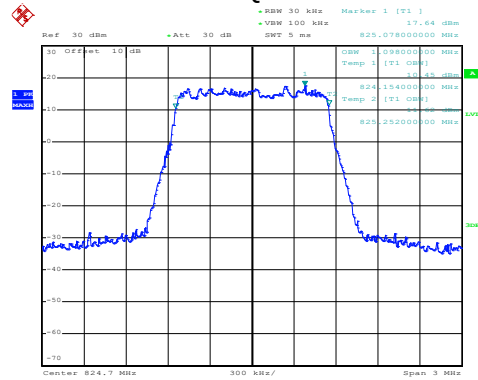
LTE Band 5: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 18.JAN.2021 16:08:56

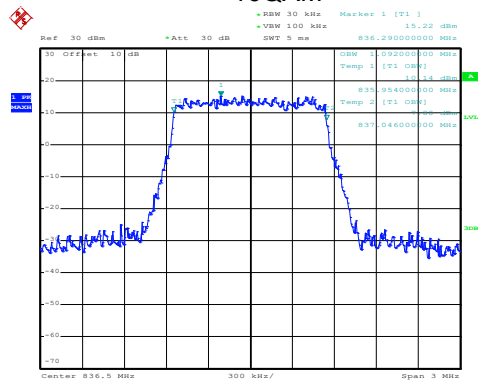
QPSK



Date: 18.JAN.2021 16:08:53

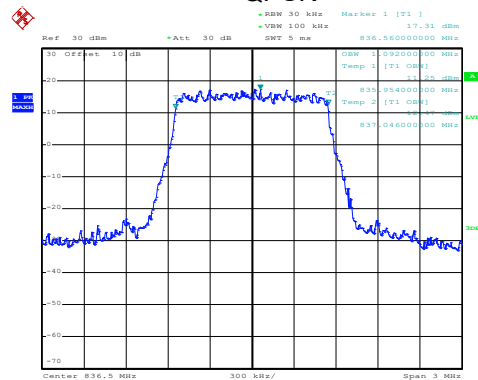
Lowest channel

16QAM



Date: 18.JAN.2021 16:09:26

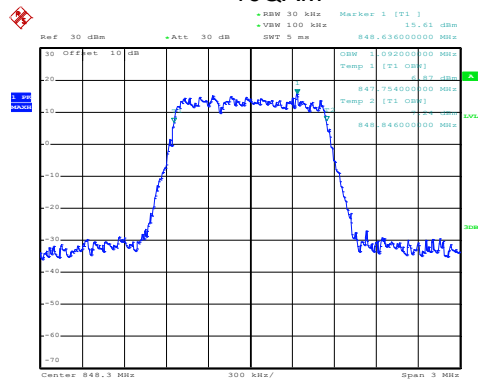
QPSK



Date: 18.JAN.2021 16:09:23

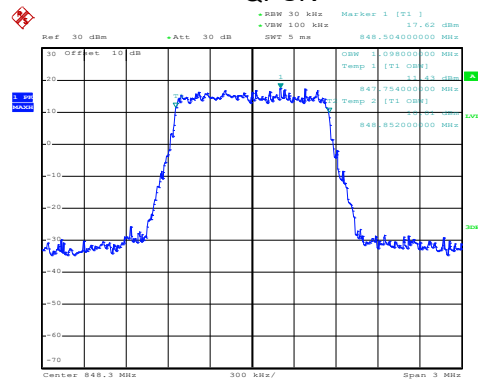
Middle channel

16QAM



Date: 18.JAN.2021 16:09:38

QPSK

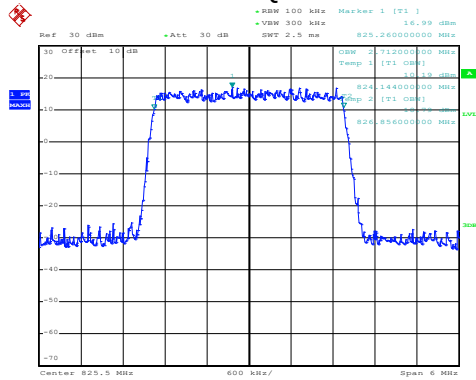


Date: 18.JAN.2021 16:09:35

Highest channel

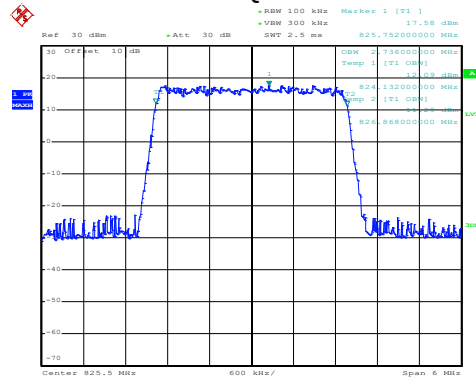
# LTE Band 5: 99% Occupancy bandwidth BW: 3MHz

## 16QAM



Date: 18.JAN.2021 16:04:56

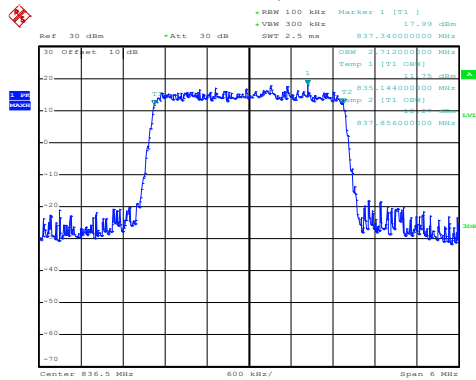
## QPSK



Date: 18.JAN.2021 16:04:53

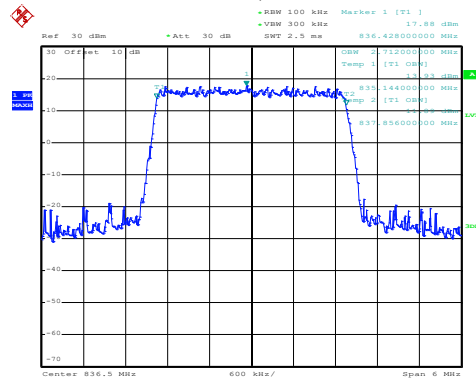
## Lowest channel

## 16QAM



Date: 18.JAN.2021 16:05:09

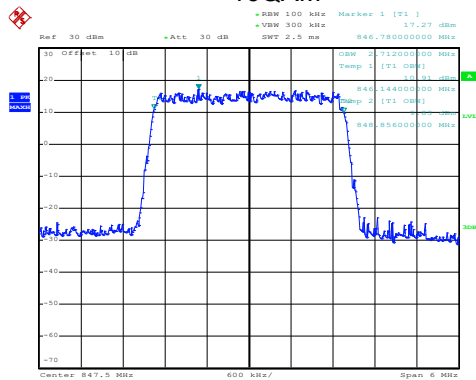
## QPSK



Date: 18.JAN.2021 16:05:05

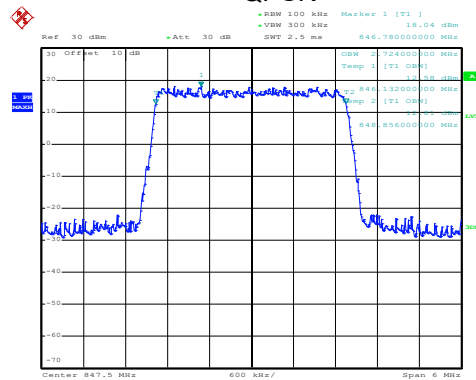
## Middle channel

## 16QAM



Date: 18.JAN.2021 16:05:43

## QPSK

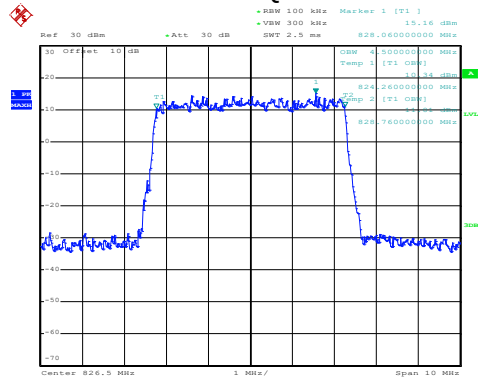


Date: 18.JAN.2021 16:05:40

## Highest channel

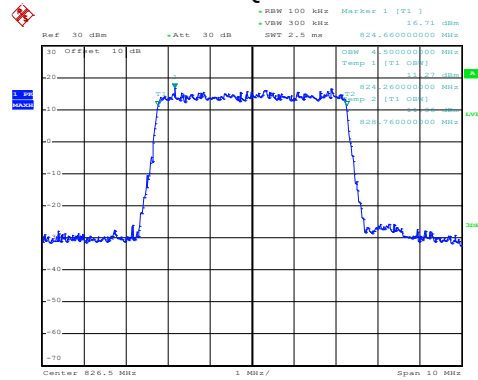
LTE Band 5: 99% Occupancy bandwidth  
BW: 5MHz

16QAM



Date: 18.JAN.2021 16:06:52

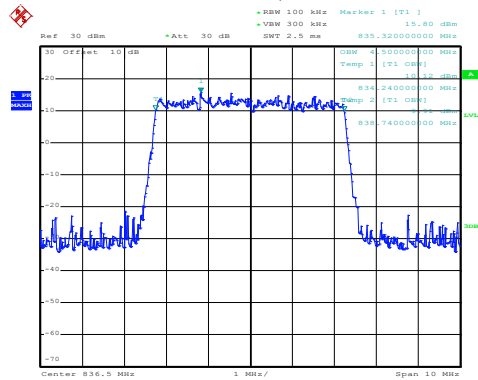
QPSK



Date: 18.JAN.2021 16:06:49

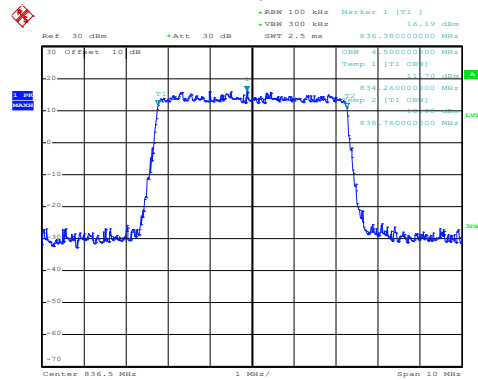
Lowest channel

16QAM



Date: 18.JAN.2021 16:06:33

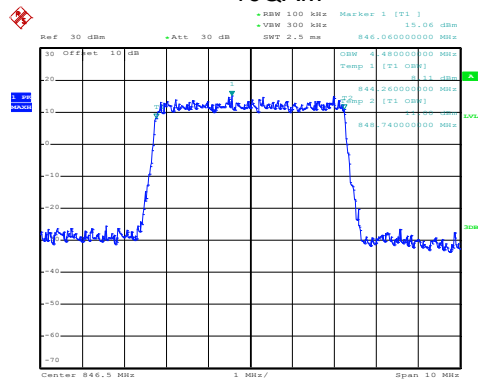
QPSK



Date: 18.JAN.2021 16:06:29

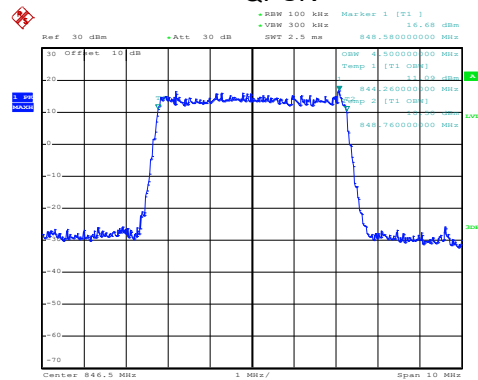
Middle channel

16QAM



Date: 18.JAN.2021 16:06:03

QPSK



Date: 18.JAN.2021 16:05:59

Highest channel

16QAM



Date: 18.JAN.2021 16:07:35

16QAM



Date: 18.JAN.2021 16:07:47

16QAM

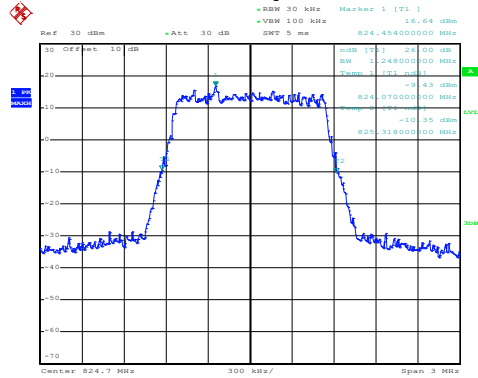


Date: 18.JAN.2021 16:08:26

## Page 67 of 170

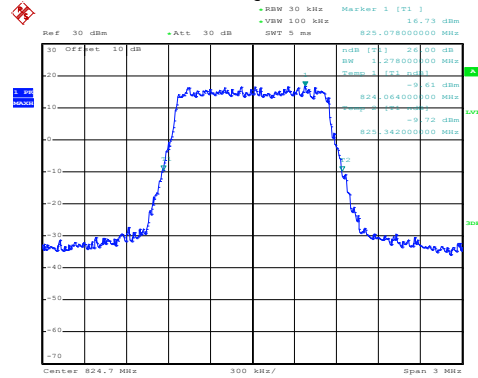
LTE Band 5: -26dBc bandwidth  
BW: 1.4MHz

16QAM



Date: 18.JAN.2021 16:09:05

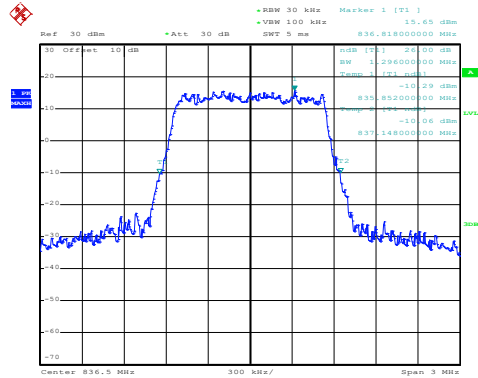
QPSK



Date: 18.JAN.2021 16:09:01

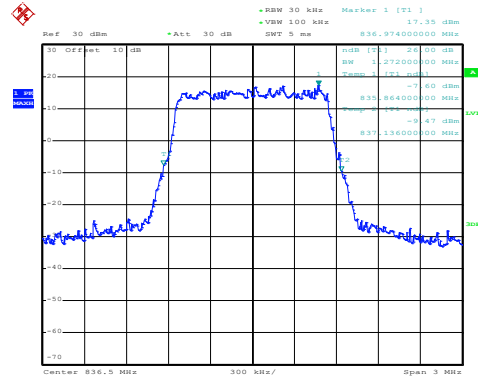
Lowest channel

16QAM



Date: 18.JAN.2021 16:09:16

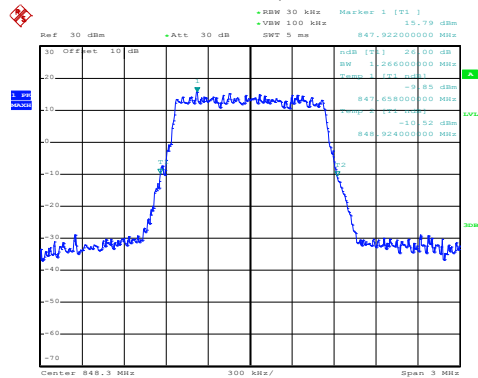
QPSK



Date: 18.JAN.2021 16:09:13

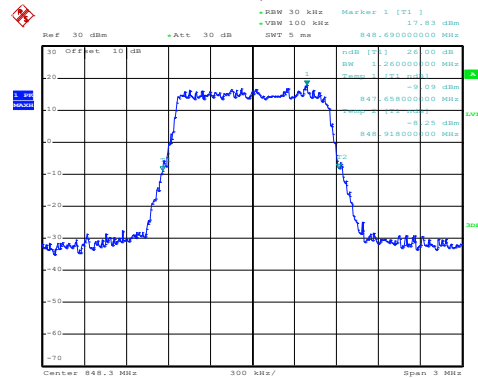
Middle channel

16QAM



Date: 18.JAN.2021 16:09:48

QPSK

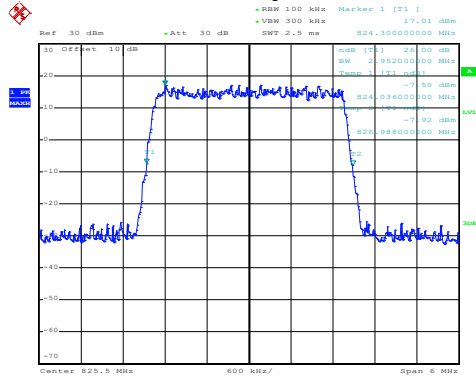


Date: 18.JAN.2021 16:09:44

Highest channel

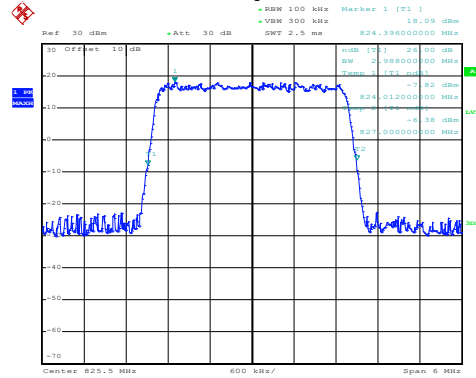
LTE Band 5: -26dBc bandwidth  
BW: 3MHz

16QAM



Date: 18.JAN.2021 16:04:46

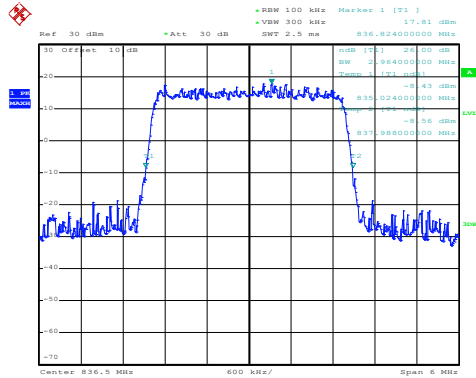
QPSK



Date: 18.JAN.2021 16:04:43

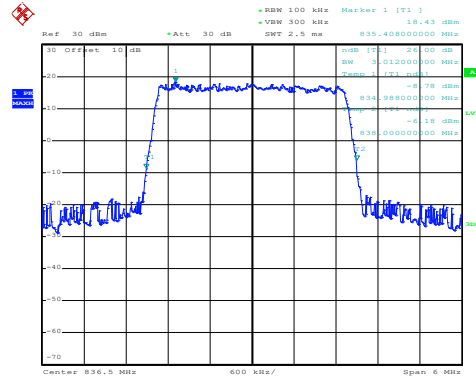
Lowest channel

16QAM



Date: 18.JAN.2021 16:05:22

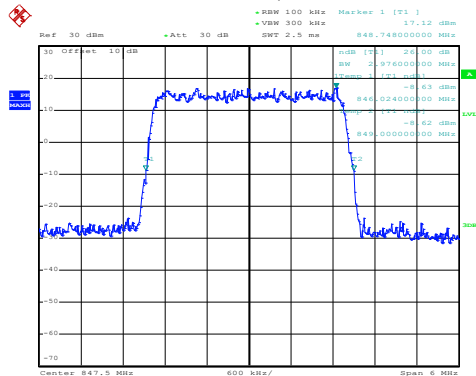
QPSK



Date: 18.JAN.2021 16:05:19

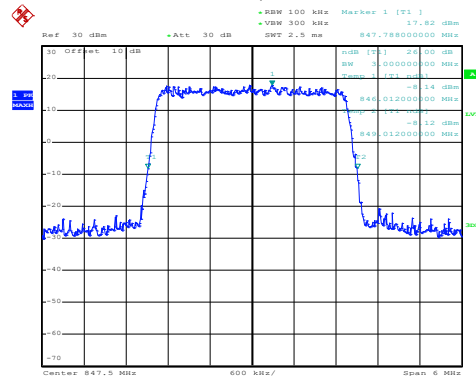
Middle channel

16QAM



Date: 18.JAN.2021 16:05:34

QPSK

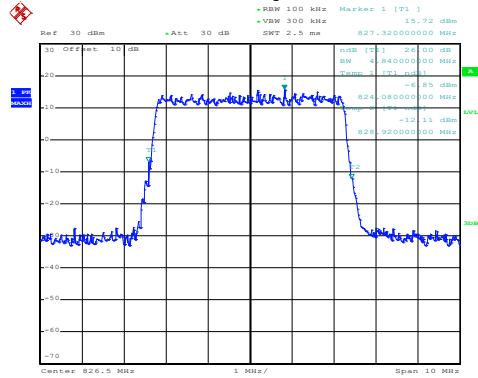


Date: 18.JAN.2021 16:05:30

Highest channel

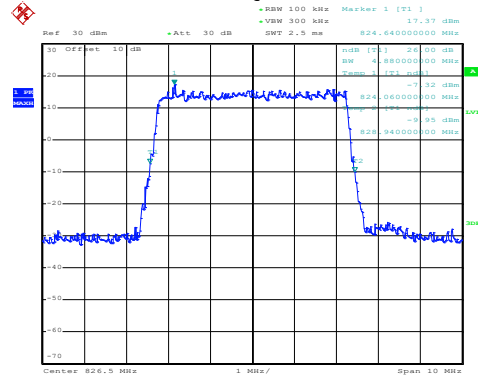
### LTE Band 5: -26dBc bandwidth BW: 5MHz

#### 16QAM



Date: 18.JAN.2021 16:07:03

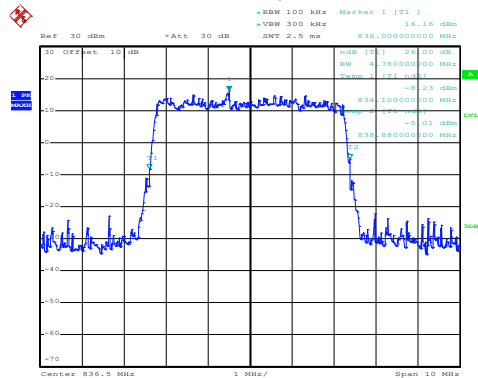
#### QPSK



Date: 18.JAN.2021 16:06:58

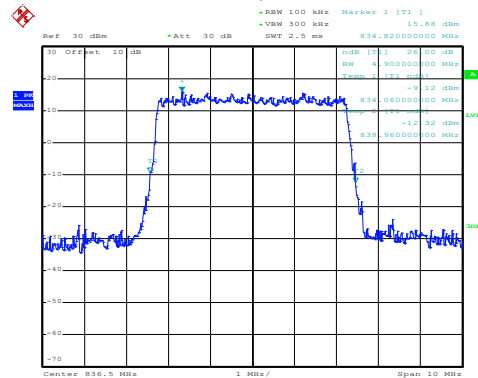
### Lowest channel

#### 16QAM



Date: 18.JAN.2021 16:06:23

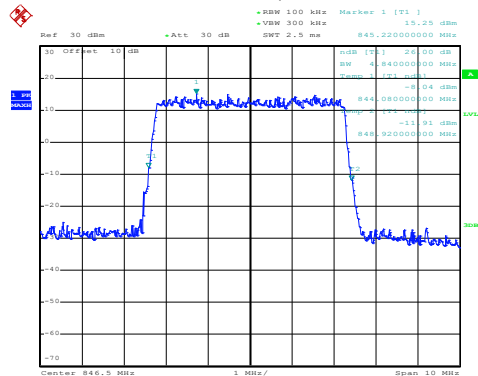
#### QPSK



Date: 18.JAN.2021 16:06:19

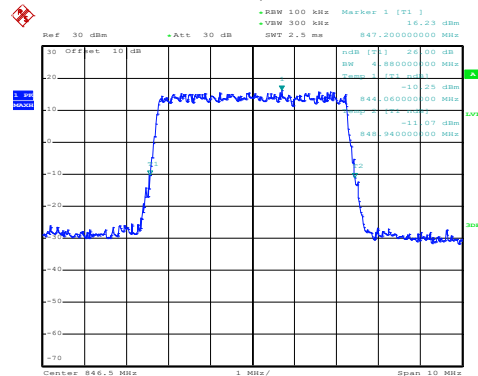
### Middle channel

#### 16QAM



Date: 18.JAN.2021 16:06:13

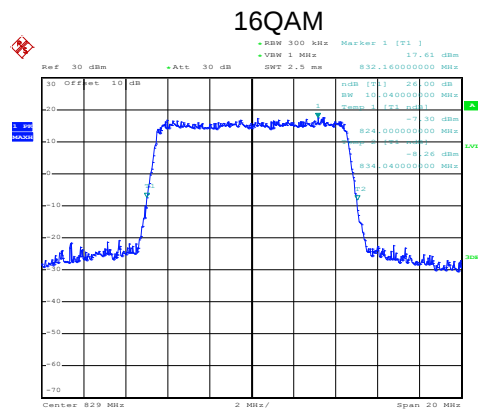
#### QPSK



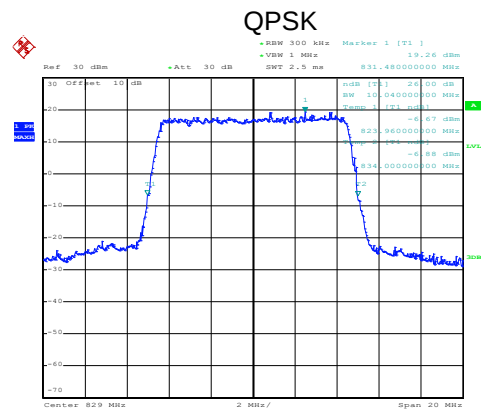
Date: 18.JAN.2021 16:06:09

### Highest channel

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

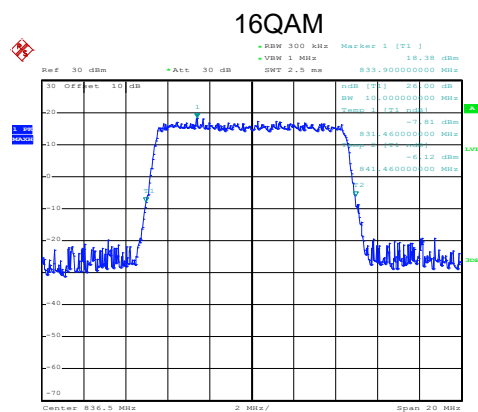


Date: 18.JAN.2021 16:07:30

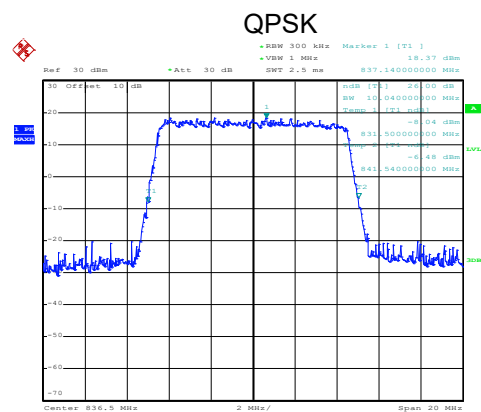


Date: 18.JAN.2021 16:07:25

Lowest channel

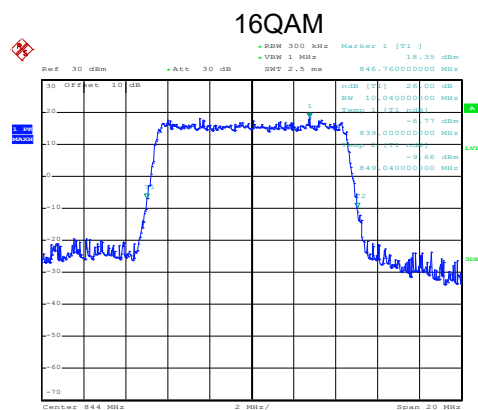


Date: 18.JAN.2021 16:08:03

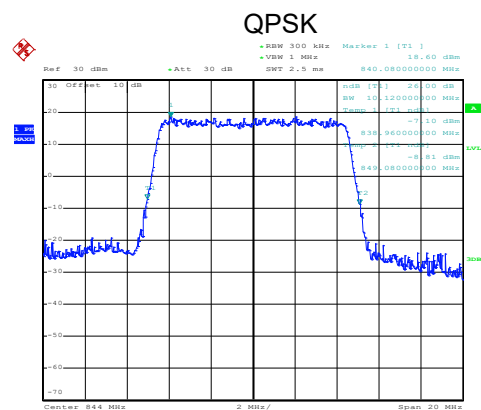


Date: 18.JAN.2021 16:07:58

Middle channel



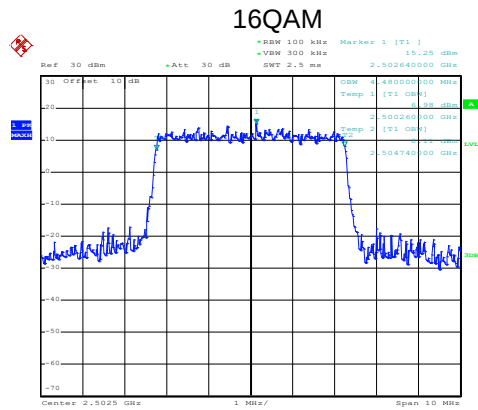
Date: 18.JAN.2021 16:08:19



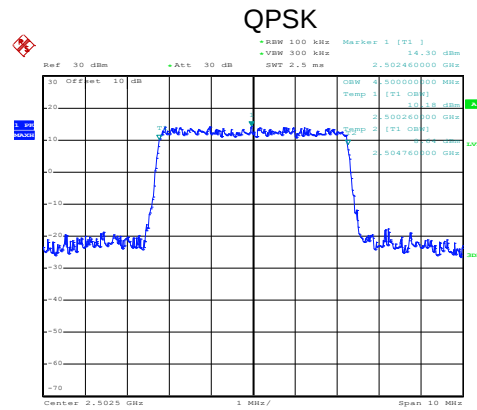
Date: 18.JAN.2021 16:08:15

## Highest channel

## LTE-Band 7 part:

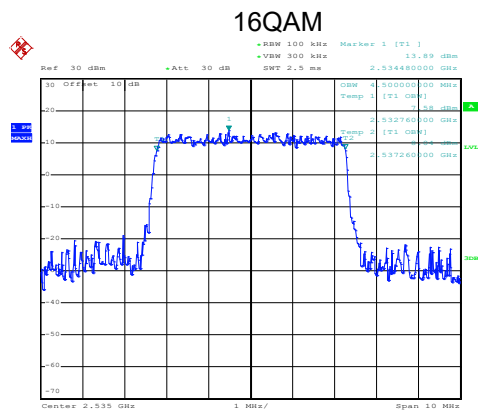
LTE Band 7: 99% Occupancy bandwidth  
BW: 5MHz


Date: 18.JAN.2021 16:28:01

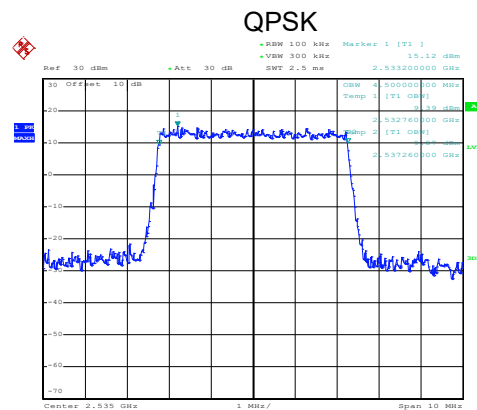


Date: 18.JAN.2021 16:27:56

## Lowest channel

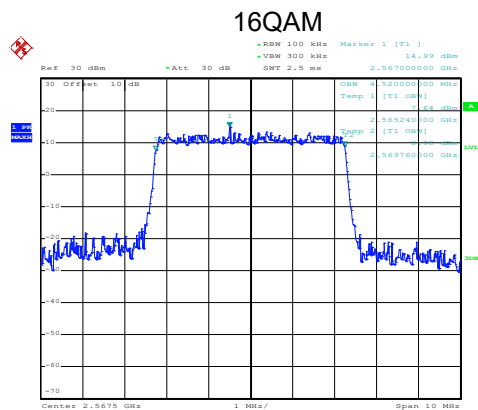


Date: 18.JAN.2021 16:28:38

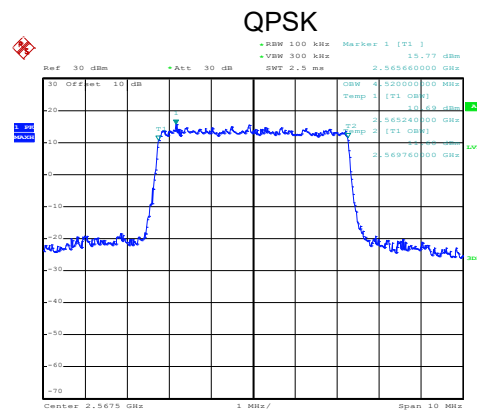


Date: 18.JAN.2021 16:28:34

## Middle channel



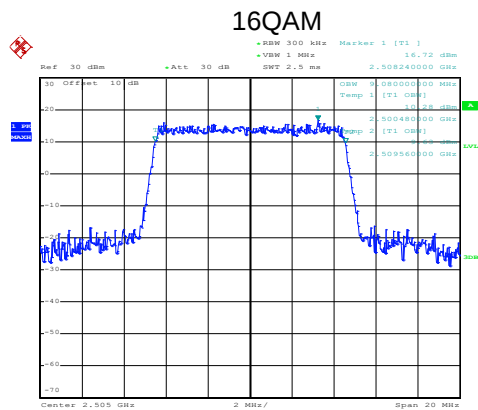
Date: 18.JAN.2021 16:29:01



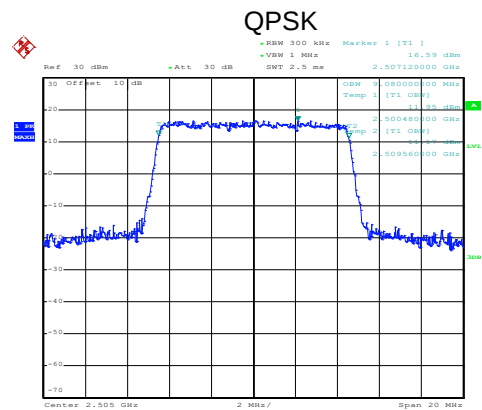
Date: 18.JAN.2021 16:28:57

## Highest channel

LTE Band 7: 99% Occupy bandwidth  
BW: 10MHz

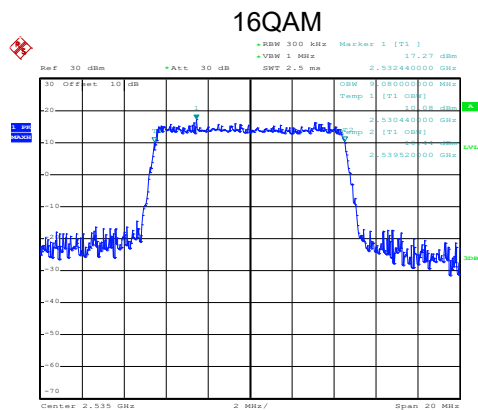


Date: 18.JAN.2021 16:30:00

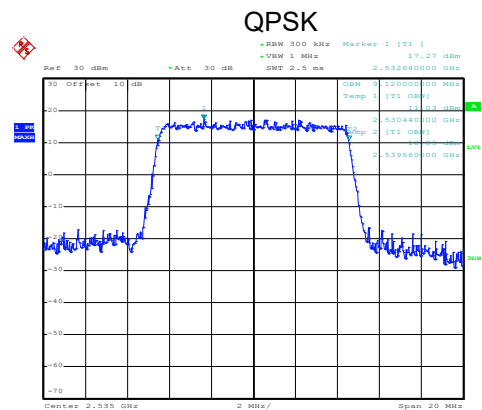


Date: 18.JAN.2021 16:29:56

Lowest channel

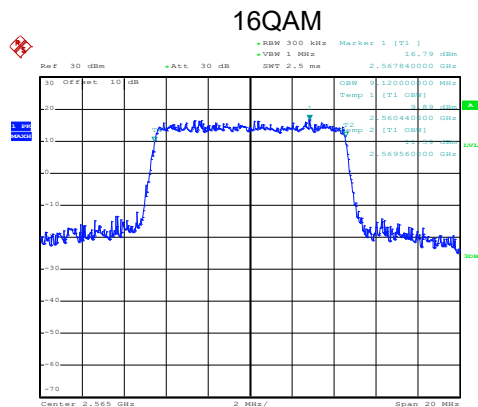


Date: 18.JAN.2021 16:30:12

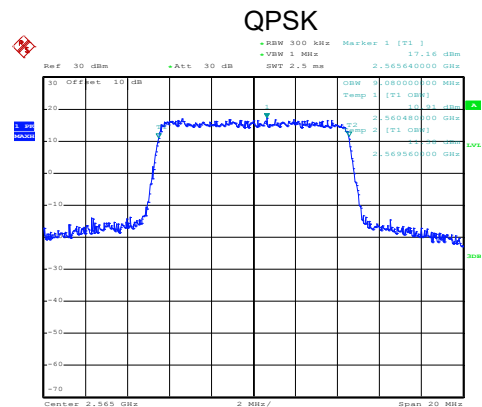


Date: 18.JAN.2021 16:30:08

Middle channel



Date: 18.JAN.2021 16:30:54

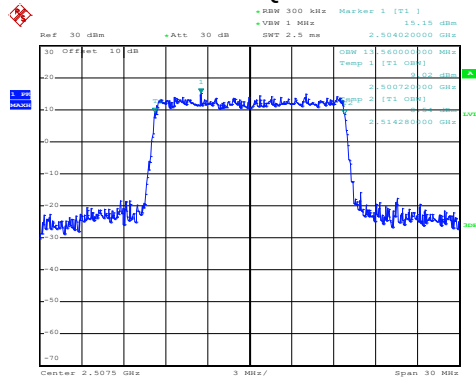


Date: 18.JAN.2021 16:30:49

## Highest channel

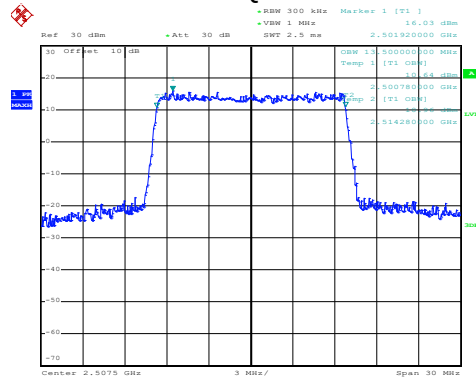
LTE Band 7: 99% Occupancy bandwidth  
BW: 15MHz

16QAM



Date: 18.JAN.2021 16:32:14

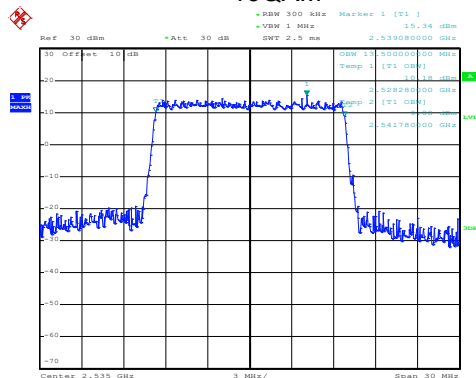
QPSK



Date: 18.JAN.2021 16:32:10

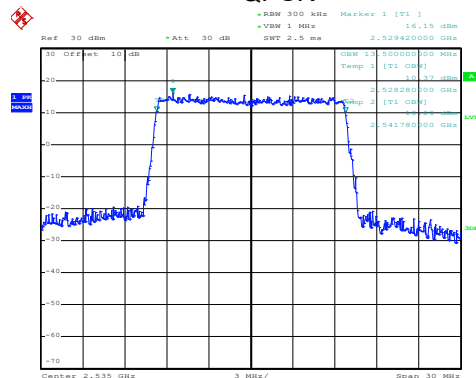
Lowest channel

16QAM



Date: 18.JAN.2021 16:31:58

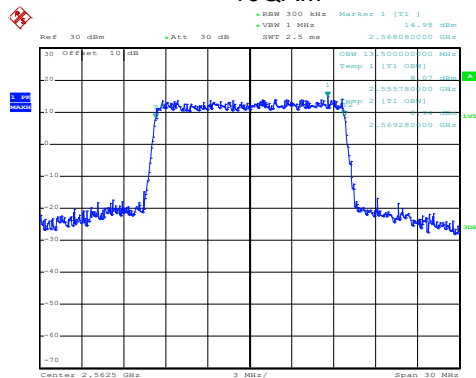
QPSK



Date: 18.JAN.2021 16:31:53

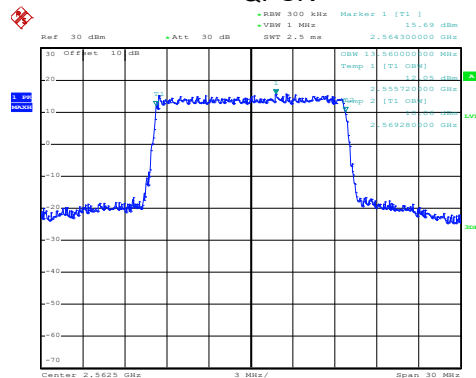
Middle channel

16QAM



Date: 18.JAN.2021 16:31:18

QPSK

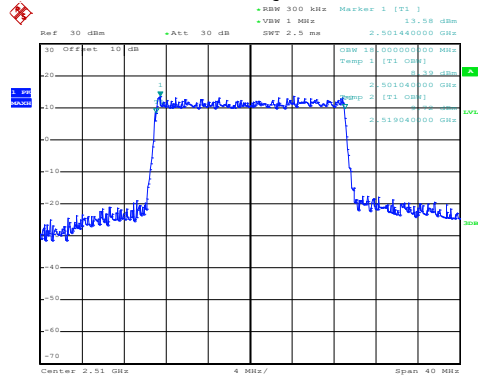


Date: 18.JAN.2021 16:31:14

Highest channel

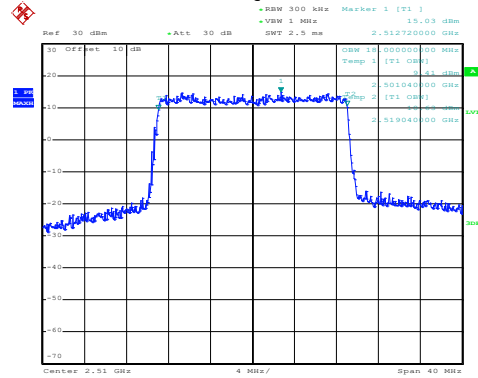
LTE Band 7: 99% Occupancy bandwidth  
BW: 20MHz

16QAM



Date: 18.JAN.2021 16:33:05

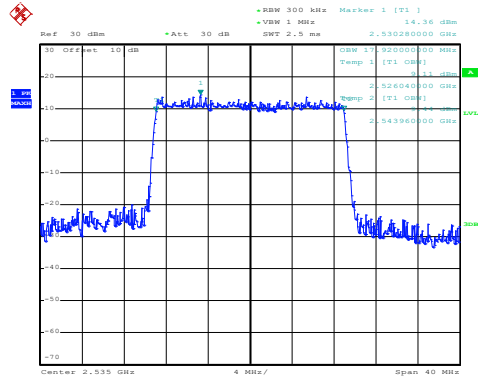
QPSK



Date: 18.JAN.2021 16:32:59

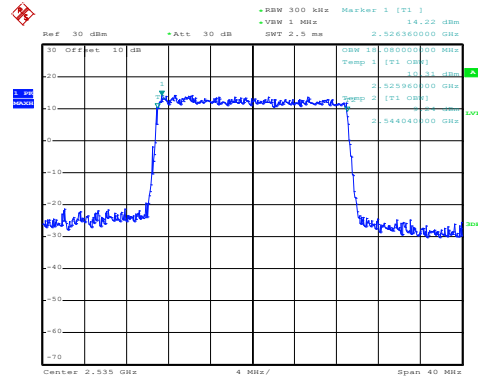
Lowest channel

16QAM



Date: 18.JAN.2021 16:33:21

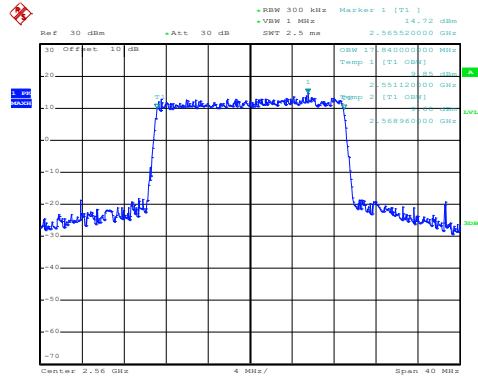
QPSK



Date: 18.JAN.2021 16:33:16

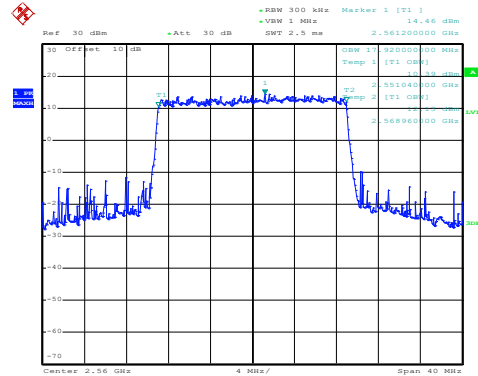
Middle channel

16QAM



Date: 18.JAN.2021 16:34:07

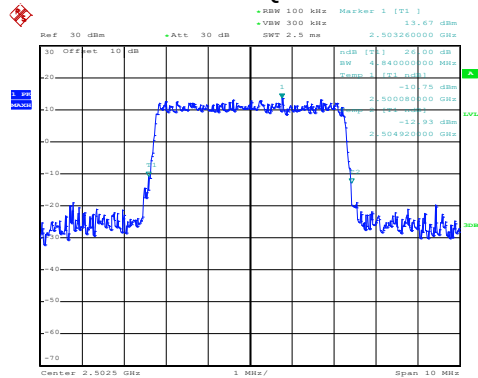
QPSK



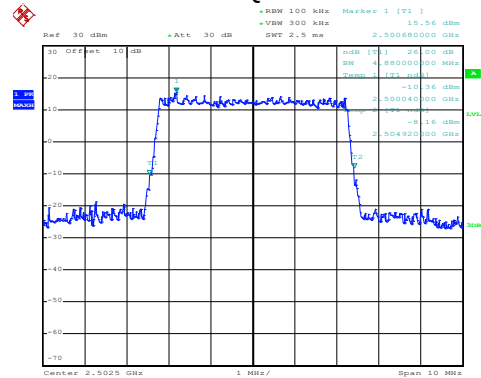
Date: 18.JAN.2021 16:34:00

Highest channel

QPSK



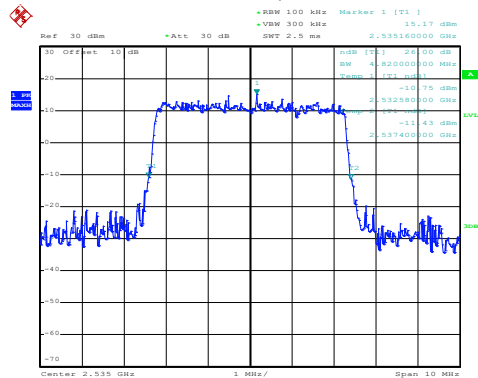
Date: 18.JAN.2021 16:28:11



Date: 18.JAN.2021 16:28:07

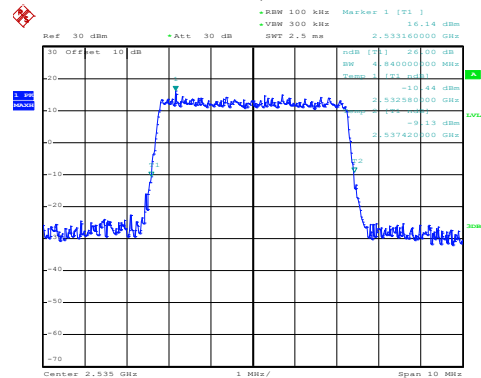
Lowest channel

16QAM



Date: 18.JAN.2021 16:28:25

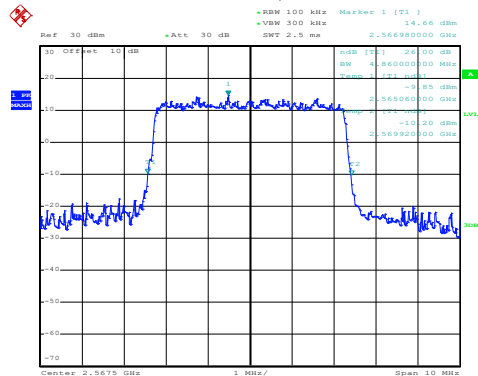
QPSK



Date: 18.JAN.2021 16:28:21

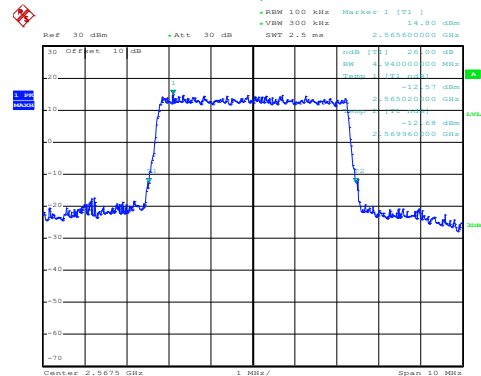
Middle channel

16QAM



Date: 18.JAN.2021 16:29:16

QPSK

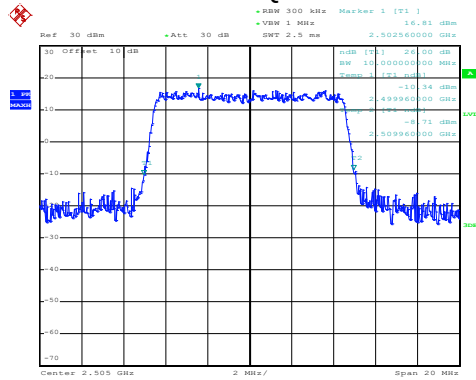


Date: 18.JAN.2021 16:29:11

Highest channel

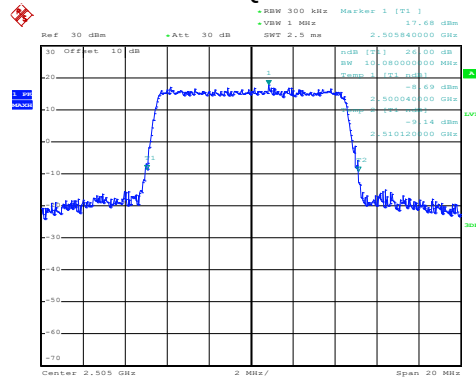
LTE Band 7: -26dBc bandwidth  
BW: 10MHz

16QAM



Date: 18.JAN.2021 16:29:48

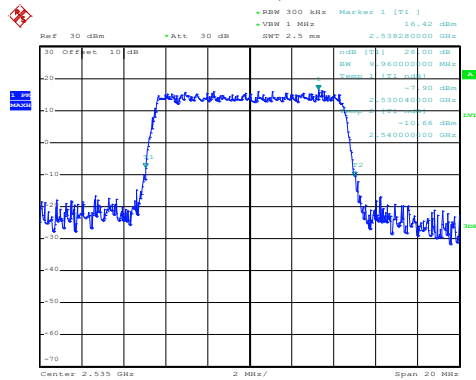
QPSK



Date: 18.JAN.2021 16:29:44

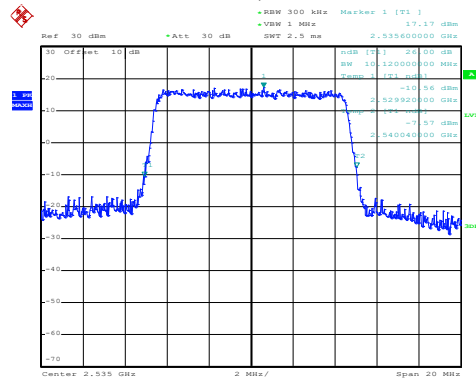
Lowest channel

16QAM



Date: 18.JAN.2021 16:30:23

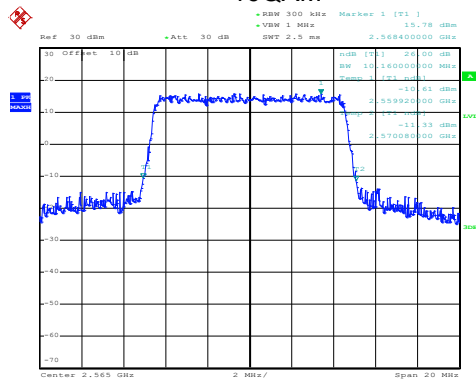
QPSK



Date: 18.JAN.2021 16:30:19

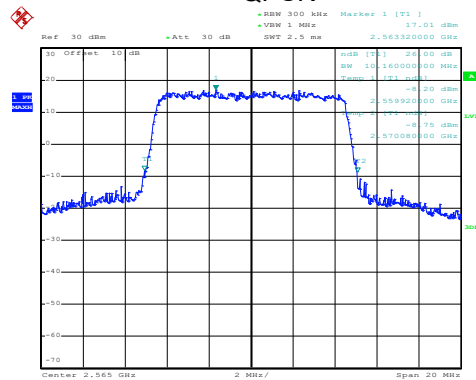
Middle channel

16QAM



Date: 18.JAN.2021 16:30:41

QPSK

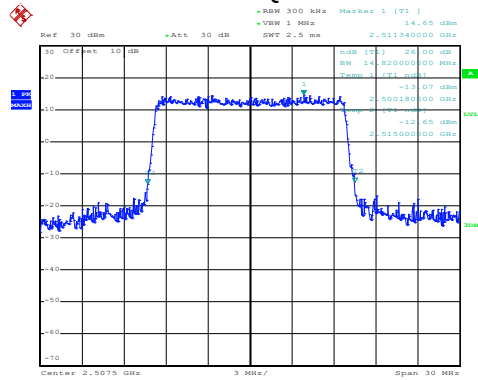


Date: 18.JAN.2021 16:30:36

Highest channel

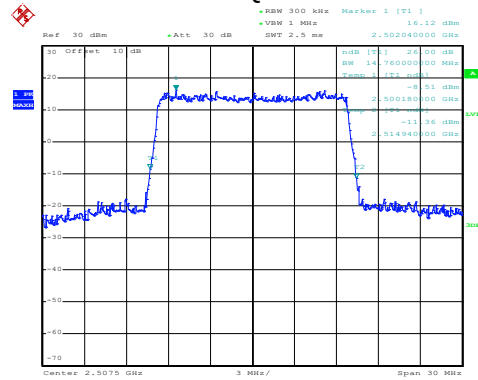
LTE Band 7: -26dBc bandwidth  
BW: 15MHz

16QAM



Date: 18.JAN.2021 16:32:27

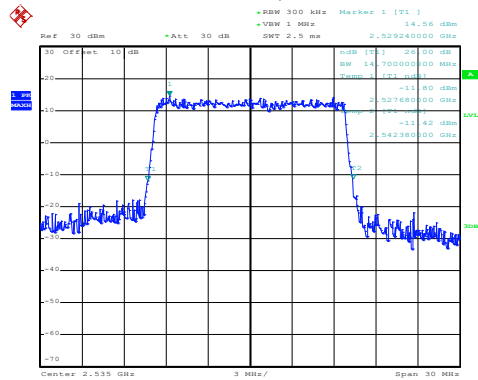
QPSK



Date: 18.JAN.2021 16:32:22

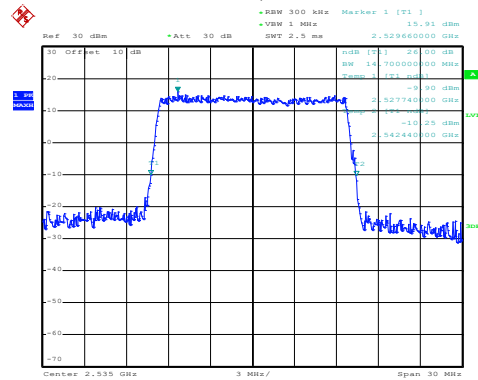
Lowest channel

16QAM



Date: 18.JAN.2021 16:31:45

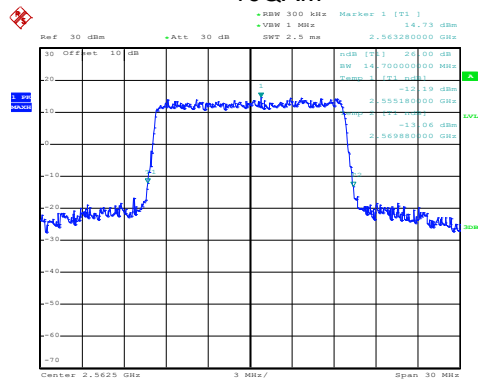
QPSK



Date: 18.JAN.2021 16:31:41

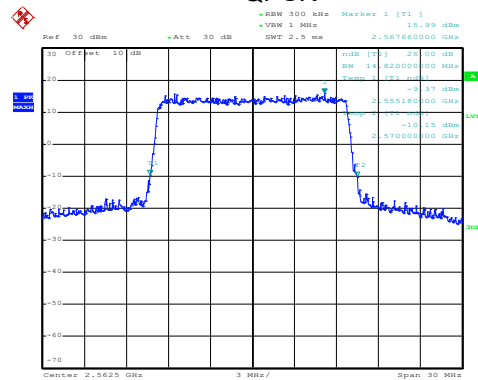
Middle channel

16QAM



Date: 18.JAN.2021 16:31:31

QPSK



Date: 18.JAN.2021 16:31:26

Highest channel

16QAM



Date: 18.JAN.2021 16:32:47

## 16QAM



Date: 18.JAN.2021 16:33:29

16QAM

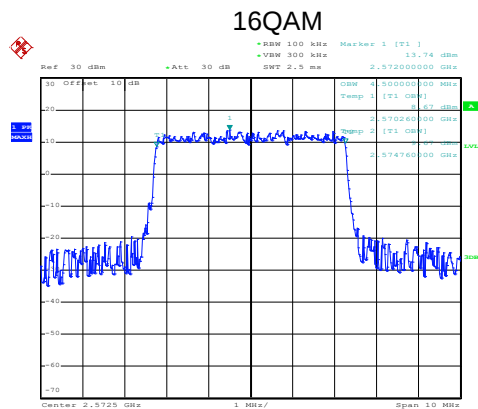


Date: 18.JAN.2021 16:33:47

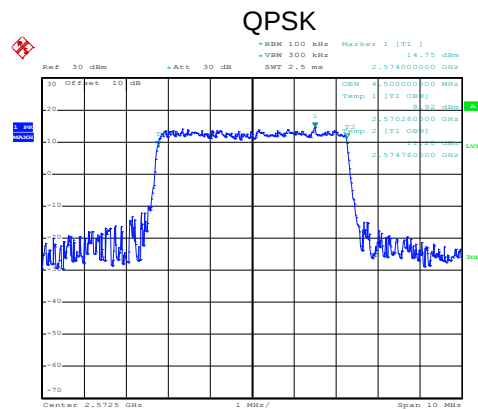
## Page 79 of 170

**LTE-Band 38 part:**

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

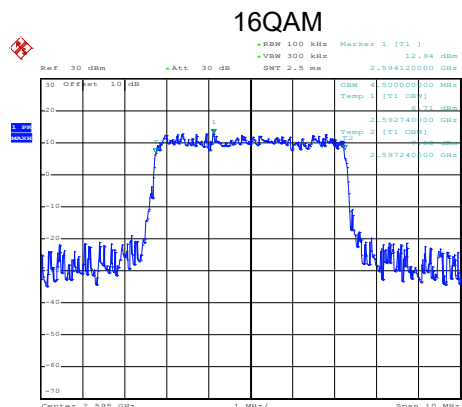


Date: 18.JAN.2021 16:36:23

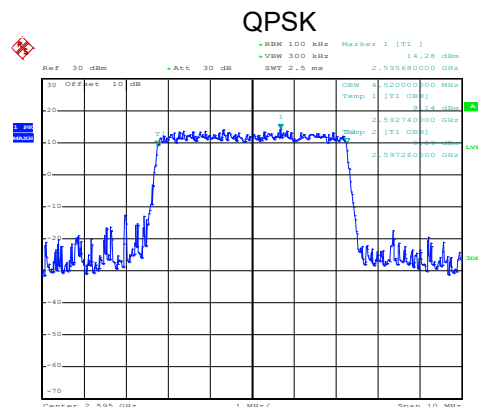


Date: 18.JAN.2021 16:36:15

Lowest channel

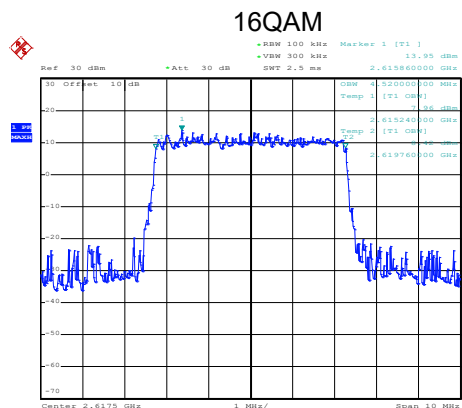


Date: 18.JAN.2021 16:37:04

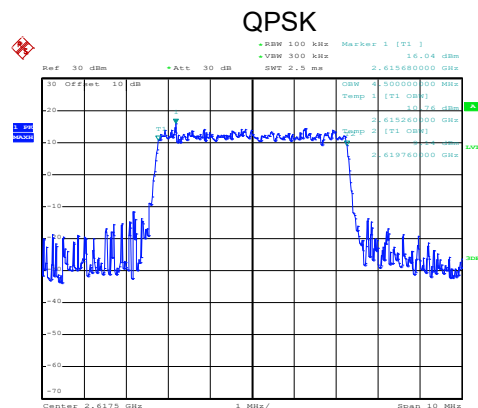


Date: 18.JAN.2021 16:36:59

Middle channel



Date: 18.JAN.2021 16:37:21



Date: 18.JAN.2021 16:37:16

## Highest channel