

# **FCC REPORT**

## **(LTE)**

**Applicant:** TECNO MOBILE 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.: LE7

Trade mark: TECNO

**FCC ID:** 2ADYY-LE7

**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  
FCC CFR Title 47 Part 27 Subpart H

**Date of sample receipt:** 25 Feb., 2021

**Date of Test:** 26 Feb., to 16 Mar., 2021

**Date of report issued:** 17 Mar., 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.

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## 2. Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 17 Mar., 2021 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested by:



Test Engineer

Date:

17 Mar., 2021

Reviewed by:



Project Engineer

Date:

17 Mar., 2021

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## 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 (c)(10)<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(g)<br>Part 27.53(h)<br>Part 27.53(m)                   | Pass                                   |
| Out of band emission at antenna terminals                                                                                                                                                                                                                                                                   | Part 2.1053<br>Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<br>Part 27.53(m)                | Pass                                   |
| Field strength of spurious radiation                                                                                                                                                                                                                                                                        | Part 22.917(a)<br>Part 24.238 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)<br>Part 27.53(m)                               | Pass                                   |
| Frequency stability vs. temperature                                                                                                                                                                                                                                                                         | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(a)(1)(b)                                                     | Pass                                   |
| Frequency stability vs. voltage                                                                                                                                                                                                                                                                             | Part 22.355<br>Part 24.235<br>Part 27.54<br>Part 2.1055(d)(2)                                                        | Pass                                   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer). |                                                                                                                      |                                        |
| <b>Test Method:</b>                                                                                                                                                                                                                                                                                         | ANSI/TIA-603-E-2016<br>ANSI C63.26-2015                                                                              |                                        |

## 5. General Information

### 5.1 Client Information

|               |                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------|
| Applicant:    | TECNO MOBILE LIMITED                                                                                                   |
| Address:      | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT                                           |
| Manufacturer: | TECNO MOBILE 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.:                 | LE7                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |
| 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 17: TX: 704MHz-716MHz RX: 734MHz-746MHz<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 17: -1.9 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 DC3.87, 6850mAh                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |
| AC adapter:                | Model: U180TSA<br>Input: AC100-240V, 50/60Hz, 0.6A<br>Output: DC 5.0V - 9.0V == 2A, 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 17 (5MHz) |                 | LTE Band 17 (10MHz) |                 |
|--------------------|-----------------|---------------------|-----------------|
| Channel            | Frequency (MHz) | Channel             | Frequency (MHz) |
| 23755              | 706.50          | 23780               | 709.00          |
| 23756              | 706.60          | 23781               | 709.10          |
| ....               | ....            | ....                | ....            |
| 23789              | 709.90          | 23789               | 709.90          |
| 23790              | 710.00          | 23790               | 710.00          |
| 23791              | 710.10          | 23791               | 710.10          |
| ...                | ...             | ...                 | ...             |
| 23824              | 713.40          | 23799               | 710.90          |
| 23825              | 713.50          | 23800               | 711.00          |

| LTE Band 38 (5MHz)  |                 | LTE Band 38 (10MHz) |                 |
|---------------------|-----------------|---------------------|-----------------|
| Channel             | Frequency (MHz) | Channel             | Frequency (MHz) |
| Channel             | Frequency (MHz) | 37800               | 2575.00         |
| 37775               | 2572.50         | 37801               | 2575.10         |
| 37776               | 2572.60         | ....                | ....            |
| ....                | ....            | 37999               | 2594.90         |
| 37999               | 2594.90         | 38000               | 2595.00         |
| 38000               | 2595.00         | 38001               | 2595.10         |
| 38001               | 2595.10         | ...                 | ...             |
| ...                 | ...             | 38199               | 2614.90         |
| 38224               | 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 17(5MHz) |       |                 | LTE Band 17(10MHz) |       |                 |
|-------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel           |       | Frequency (MHz) | Channel            |       | Frequency (MHz) |
| Lowest channel    | 23755 | 706.50          | Lowest channel     | 23780 | 709.00          |
| Middle channel    | 23790 | 710.00          | Middle channel     | 23790 | 710.00          |
| Highest channel   | 23825 | 713.50          | Highest channel    | 23800 | 711.00          |

| LTE Band 38 (5MHz)  |       |                 | LTE Band 38 (10MHz) |       |                 |
|---------------------|-------|-----------------|---------------------|-------|-----------------|
| Channel             |       | Frequency (MHz) | Channel             |       | Frequency (MHz) |
| Lowest channel      | 37775 | 2572.50         | 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: 3.87Vdc, Extreme: Low 3.5Vdc, High 4.45Vdc              |
| 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                                              |
| 4#                                                                                                                                                                                                                                                                                                                                                                               | 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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b><br/>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.</li> <li>● <b>ISED – CAB identifier.: CN0021</b><br/>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.</li> <li>● <b>A2LA - Registration No.: 4346.01</b><br/>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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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

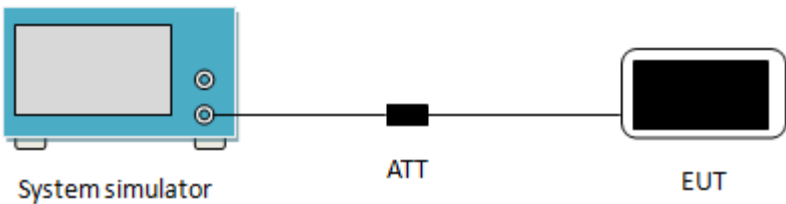
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.10 Test Instruments list

| 6 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               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| Biconical Antenna            | SCHWARZBECK     | VUBA9117      | 359                | 06-22-2020           | 06-21-2021               |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 916                | 03-07-2020           | 03-06-2021               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| 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               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| Pre-amplifier                | CD              | PAP-1G18      | 11804              | 03-07-2020           | 03-06-2021               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| Spectrum analyzer            | Rohde & Schwarz | FSP30         | 101454             | 03-05-2020           | 03-04-2021               |
|                              |                 |               |                    | 03-05-2021           | 03-04-2022               |
| Spectrum analyzer            | Rohde & Schwarz | FSP40         | 100363             | 11-18-2019           | 11-17-2020               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-05-2020           | 03-04-2021               |
|                              |                 |               |                    | 03-05-2021           | 03-04-2022               |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-18-2019           | 11-17-2020               |
| Signal Generator             | Rohde & Schwarz | SMX           | 835454/016         | 03-05-2020           | 03-04-2021               |
|                              |                 |               |                    | 03-05-2021           | 03-04-2022               |
| Signal Generator             | R&S             | SMR20         | 1008100050         | 03-05-2020           | 03-04-2021               |
|                              |                 |               |                    | 03-05-2021           | 03-04-2022               |
| 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               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| Cable                        | MICRO-COAX      | MFR64639      | K10742-5           | 03-07-2020           | 03-06-2021               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| Cable                        | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-07-2020           | 03-06-2021               |
|                              |                 |               |                    | 03-07-2021           | 03-06-2022               |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 09-25-2019           | 09-24-2020               |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 11-01-2019           | 11-31-2020               |
| Simulated Station            | Rohde & Schwarz | CMW500        | 140493             | 07-22-2020           | 07-21-2021               |

## 6. Test results

### 6.1 Conducted Output Power, ERP and EIRP

|                   |                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), 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 17: 3W, LTE Band 38: 2W, LTE Band 41: 2W,                                                 |
| Test Setup:       |                                                                                  |
| Test Procedure:   | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm. |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                  |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                   |
| Test results:     | Passed                                                                                                                                                             |

**Measurement Data:**

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18607               | 18900     | 19193     |  |
|                                                              |                 |                     |         |           | 1850.7MHz           | 1880.0MHz | 1909.3MHz |  |
| 2                                                            | 1.4             | QPSK                | 1       | 0         | 23.02               | 22.94     | 23.12     |  |
|                                                              |                 |                     | 1       | 2         | 23.15               | 23.28     | 23.19     |  |
|                                                              |                 |                     | 1       | 5         | 23.04               | 23.01     | 23.08     |  |
|                                                              |                 |                     | 3       | 0         | 22.01               | 22.08     | 22.14     |  |
|                                                              |                 |                     | 3       | 1         | 22.06               | 22.06     | 22.15     |  |
|                                                              |                 |                     | 3       | 2         | 22.04               | 22.08     | 22.13     |  |
|                                                              |                 |                     | 6       | 0         | 22.08               | 22.11     | 22.16     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.78     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.85               | 21.95     | 21.97     |  |
|                                                              |                 |                     | 1       | 2         | 22.01               | 22.19     | 22.07     |  |
|                                                              |                 |                     | 1       | 5         | 21.82               | 21.90     | 21.97     |  |
|                                                              |                 |                     | 3       | 0         | 20.99               | 20.97     | 21.04     |  |
|                                                              |                 |                     | 3       | 1         | 20.98               | 21.02     | 21.06     |  |
|                                                              |                 |                     | 3       | 2         | 20.95               | 20.97     | 21.04     |  |
|                                                              |                 |                     | 6       | 0         | 20.90               | 21.08     | 21.18     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.5      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.69     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 18615               | 18900     | 19185     |  |
|                                                              |                 |                     |         |           | 1851.5MHz           | 1880.0MHz | 1908.5MHz |  |
| 2                                                            | 3               | QPSK                | 1       | 0         | 23.01               | 23.16     | 23.16     |  |
|                                                              |                 |                     | 1       | 7         | 23.01               | 23.06     | 23.11     |  |
|                                                              |                 |                     | 1       | 14        | 23.11               | 23.11     | 23.21     |  |
|                                                              |                 |                     | 8       | 0         | 22.01               | 22.05     | 22.19     |  |
|                                                              |                 |                     | 8       | 4         | 21.96               | 22.06     | 22.23     |  |
|                                                              |                 |                     | 8       | 7         | 22.09               | 22.03     | 22.15     |  |
|                                                              |                 |                     | 15      | 0         | 21.96               | 22.00     | 22.14     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.71     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.08               | 21.97     | 21.90     |  |
|                                                              |                 |                     | 1       | 7         | 22.01               | 21.87     | 21.93     |  |
|                                                              |                 |                     | 1       | 14        | 22.09               | 21.90     | 21.96     |  |
|                                                              |                 |                     | 8       | 0         | 21.01               | 21.06     | 21.16     |  |
|                                                              |                 |                     | 8       | 4         | 21.03               | 21.05     | 21.16     |  |
|                                                              |                 |                     | 8       | 7         | 21.06               | 21.01     | 21.13     |  |
|                                                              |                 |                     | 15      | 0         | 20.98               | 20.95     | 20.96     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.5      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.59     |                     |           |           |  |
| 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         | 23.04               | 23.16     | 23.14     |  |
|                                                              |                 |                     | 1       | 12        | 23.03               | 23.13     | 23.13     |  |
|                                                              |                 |                     | 1       | 24        | 23.15               | 23.16     | 23.15     |  |
|                                                              |                 |                     | 12      | 0         | 22.01               | 22.13     | 22.25     |  |
|                                                              |                 |                     | 12      | 6         | 22.03               | 22.03     | 22.19     |  |
|                                                              |                 |                     | 12      | 11        | 22.03               | 22.09     | 22.20     |  |
|                                                              |                 |                     | 25      | 0         | 22.04               | 21.99     | 22.04     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.66     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.16               | 22.09     | 22.21     |  |
|                                                              |                 |                     | 1       | 12        | 22.15               | 22.07     | 22.20     |  |
|                                                              |                 |                     | 1       | 24        | 22.20               | 22.08     | 22.23     |  |
|                                                              |                 |                     | 12      | 0         | 20.99               | 21.06     | 21.24     |  |
|                                                              |                 |                     | 12      | 6         | 21.07               | 21.05     | 21.25     |  |
|                                                              |                 |                     | 12      | 11        | 21.07               | 20.97     | 21.22     |  |
|                                                              |                 |                     | 25      | 0         | 20.95               | 21.04     | 21.11     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.73     |           |  |
|                                                              |                 | 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         | 23.06               | 23.09     | 23.26     |  |
|                                                              |                 |                     | 1       | 24        | 23.20               | 23.16     | 23.31     |  |
|                                                              |                 |                     | 1       | 49        | 23.28               | 23.07     | 23.19     |  |
|                                                              |                 |                     | 25      | 0         | 22.12               | 22.18     | 22.28     |  |
|                                                              |                 |                     | 25      | 12        | 22.11               | 22.20     | 22.30     |  |
|                                                              |                 |                     | 25      | 24        | 22.07               | 22.16     | 22.30     |  |
|                                                              |                 |                     | 50      | 0         | 22.15               | 22.08     | 22.13     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.81     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.89               | 22.10     | 22.02     |  |
|                                                              |                 |                     | 1       | 24        | 22.08               | 22.25     | 22.11     |  |
|                                                              |                 |                     | 1       | 49        | 22.13               | 22.12     | 22.00     |  |
|                                                              |                 |                     | 25      | 0         | 21.11               | 21.15     | 21.29     |  |
|                                                              |                 |                     | 25      | 12        | 21.13               | 21.12     | 21.28     |  |
|                                                              |                 |                     | 25      | 24        | 21.09               | 21.14     | 21.27     |  |
|                                                              |                 |                     | 50      | 0         | 21.13               | 21.09     | 21.17     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.75     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 18675               | 18900     | 19125     |  |
|                                                              |                 |                     |         |           | 1857.5MHz           | 1880.0MHz | 1902.5MHz |  |
| 2                                                            | 15              | QPSK                | 1       | 0         | 22.99               | 22.96     | 23.09     |  |
|                                                              |                 |                     | 1       | 37        | 23.10               | 23.03     | 23.19     |  |
|                                                              |                 |                     | 1       | 74        | 23.04               | 22.97     | 23.14     |  |
|                                                              |                 |                     | 36      | 0         | 21.98               | 22.13     | 21.90     |  |
|                                                              |                 |                     | 36      | 16        | 22.09               | 22.19     | 21.98     |  |
|                                                              |                 |                     | 36      | 35        | 22.10               | 22.15     | 21.96     |  |
|                                                              |                 |                     | 75      | 0         | 22.15               | 22.19     | 22.26     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.69     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.00               | 22.17     | 21.87     |  |
|                                                              |                 |                     | 1       | 37        | 22.07               | 22.12     | 21.95     |  |
|                                                              |                 |                     | 1       | 74        | 22.02               | 22.11     | 21.92     |  |
|                                                              |                 |                     | 36      | 0         | 20.98               | 21.25     | 20.88     |  |
|                                                              |                 |                     | 36      | 16        | 21.04               | 21.16     | 20.97     |  |
|                                                              |                 |                     | 36      | 35        | 21.07               | 21.15     | 20.94     |  |
|                                                              |                 |                     | 75      | 0         | 21.04               | 21.13     | 21.22     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.67     |           |  |
|                                                              |                 | 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         | 22.88               | 23.02     | 22.89     |  |
|                                                              |                 |                     | 1       | 49        | 23.28               | 23.11     | 23.18     |  |
|                                                              |                 |                     | 1       | 99        | 23.01               | 23.03     | 22.98     |  |
|                                                              |                 |                     | 50      | 0         | 22.08               | 22.23     | 22.18     |  |
|                                                              |                 |                     | 50      | 24        | 22.07               | 22.21     | 22.22     |  |
|                                                              |                 |                     | 50      | 49        | 22.10               | 22.21     | 22.16     |  |
|                                                              |                 |                     | 100     | 0         | 22.14               | 22.22     | 22.10     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.78     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.80               | 22.08     | 21.79     |  |
|                                                              |                 |                     | 1       | 49        | 22.05               | 22.25     | 22.01     |  |
|                                                              |                 |                     | 1       | 99        | 21.93               | 22.11     | 21.82     |  |
|                                                              |                 |                     | 50      | 0         | 21.07               | 21.23     | 21.21     |  |
|                                                              |                 |                     | 50      | 24        | 21.03               | 21.23     | 21.19     |  |
|                                                              |                 |                     | 50      | 49        | 21.09               | 21.26     | 21.23     |  |
|                                                              |                 |                     | 100     | 0         | 21.06               | 21.19     | 21.15     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.5      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.75     |           |  |
|                                                              |                 | 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         | 23.12               | 23.10     | 23.23     |  |
|                                                              |                 |                     | 1       | 2         | 23.22               | 23.20     | 23.34     |  |
|                                                              |                 |                     | 1       | 5         | 23.10               | 23.09     | 23.24     |  |
|                                                              |                 |                     | 3       | 0         | 22.26               | 22.21     | 22.32     |  |
|                                                              |                 |                     | 3       | 1         | 22.27               | 22.20     | 22.33     |  |
|                                                              |                 |                     | 3       | 2         | 22.27               | 22.20     | 22.33     |  |
|                                                              |                 |                     | 6       | 0         | 22.23               | 22.17     | 22.28     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.64     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.01               | 21.92     | 21.95     |  |
|                                                              |                 |                     | 1       | 2         | 22.17               | 22.01     | 22.14     |  |
|                                                              |                 |                     | 1       | 5         | 21.98               | 21.93     | 21.96     |  |
|                                                              |                 |                     | 3       | 0         | 21.04               | 20.99     | 21.14     |  |
|                                                              |                 |                     | 3       | 1         | 21.04               | 21.03     | 21.15     |  |
|                                                              |                 |                     | 3       | 2         | 21.08               | 20.99     | 21.15     |  |
|                                                              |                 |                     | 6       | 0         | 21.16               | 21.06     | 21.04     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.47     |           |  |
| 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         | 23.14               | 23.09     | 23.31     |  |
|                                                              |                 |                     | 1       | 7         | 23.11               | 23.07     | 23.29     |  |
|                                                              |                 |                     | 1       | 14        | 23.14               | 23.09     | 23.30     |  |
|                                                              |                 |                     | 8       | 0         | 22.16               | 22.09     | 22.27     |  |
|                                                              |                 |                     | 8       | 4         | 22.19               | 22.11     | 22.26     |  |
|                                                              |                 |                     | 8       | 7         | 22.18               | 22.15     | 22.24     |  |
|                                                              |                 |                     | 15      | 0         | 22.13               | 22.11     | 22.20     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.61     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.15               | 22.07     | 22.10     |  |
|                                                              |                 |                     | 1       | 7         | 22.09               | 22.07     | 22.02     |  |
|                                                              |                 |                     | 1       | 14        | 22.12               | 22.07     | 21.99     |  |
|                                                              |                 |                     | 8       | 0         | 21.13               | 21.09     | 21.18     |  |
|                                                              |                 |                     | 8       | 4         | 21.12               | 21.07     | 21.18     |  |
|                                                              |                 |                     | 8       | 7         | 21.14               | 21.11     | 21.18     |  |
|                                                              |                 |                     | 15      | 0         | 21.15               | 21.04     | 21.05     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.45     |           |  |
| 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         | 23.18               | 23.13     | 23.21     |  |
|                                                              |                 |                     | 1       | 12        | 23.20               | 23.16     | 23.28     |  |
|                                                              |                 |                     | 1       | 24        | 23.26               | 23.18     | 23.19     |  |
|                                                              |                 |                     | 12      | 0         | 22.11               | 22.05     | 22.21     |  |
|                                                              |                 |                     | 12      | 6         | 22.12               | 22.04     | 22.23     |  |
|                                                              |                 |                     | 12      | 11        | 22.17               | 22.09     | 22.22     |  |
|                                                              |                 |                     | 25      | 0         | 22.14               | 22.11     | 22.21     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.58     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.13               | 22.09     | 22.28     |  |
|                                                              |                 |                     | 1       | 12        | 22.16               | 22.07     | 22.25     |  |
|                                                              |                 |                     | 1       | 24        | 22.07               | 22.08     | 22.26     |  |
|                                                              |                 |                     | 12      | 0         | 21.14               | 20.99     | 21.19     |  |
|                                                              |                 |                     | 12      | 6         | 21.08               | 21.01     | 21.20     |  |
|                                                              |                 |                     | 12      | 11        | 21.08               | 21.00     | 21.17     |  |
|                                                              |                 |                     | 25      | 0         | 21.15               | 21.09     | 21.14     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.58     |           |  |
|                                                              |                 | 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         | 23.11               | 23.06     | 23.25     |  |
|                                                              |                 |                     | 1       | 24        | 23.22               | 23.21     | 23.33     |  |
|                                                              |                 |                     | 1       | 49        | 23.07               | 23.14     | 23.32     |  |
|                                                              |                 |                     | 25      | 0         | 22.14               | 22.08     | 22.23     |  |
|                                                              |                 |                     | 25      | 12        | 22.17               | 22.10     | 22.23     |  |
|                                                              |                 |                     | 25      | 24        | 22.16               | 22.10     | 22.20     |  |
|                                                              |                 |                     | 50      | 0         | 22.11               | 22.07     | 22.18     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.63     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 30.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.11               | 22.20     | 22.02     |  |
|                                                              |                 |                     | 1       | 24        | 22.25               | 22.14     | 22.17     |  |
|                                                              |                 |                     | 1       | 49        | 22.00               | 22.13     | 22.00     |  |
|                                                              |                 |                     | 25      | 0         | 21.09               | 21.02     | 21.28     |  |
|                                                              |                 |                     | 25      | 12        | 21.18               | 21.03     | 21.23     |  |
|                                                              |                 |                     | 25      | 24        | 21.17               | 21.04     | 21.22     |  |
|                                                              |                 |                     | 50      | 0         | 21.16               | 21.07     | 21.23     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.7      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.55     |           |  |
|                                                              |                 | 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         | 23.06               | 23.04     | 23.09     |
|                                                              |                 |                     | 1       | 37        | 23.10               | 23.12     | 23.22     |
|                                                              |                 |                     | 1       | 74        | 23.19               | 23.11     | 23.06     |
|                                                              |                 |                     | 36      | 0         | 22.11               | 22.06     | 22.22     |
|                                                              |                 |                     | 36      | 16        | 22.11               | 22.10     | 22.27     |
|                                                              |                 |                     | 36      | 35        | 22.10               | 22.08     | 22.26     |
|                                                              |                 |                     | 75      | 0         | 22.20               | 22.22     | 22.34     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.52               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 22.09               | 22.01     | 22.17     |
|                                                              |                 |                     | 1       | 37        | 22.12               | 22.10     | 22.29     |
|                                                              |                 |                     | 1       | 74        | 22.02               | 22.06     | 22.20     |
|                                                              |                 |                     | 36      | 0         | 21.09               | 21.02     | 21.18     |
|                                                              |                 |                     | 36      | 16        | 21.07               | 21.09     | 21.30     |
|                                                              |                 |                     | 36      | 35        | 21.09               | 21.06     | 21.23     |
|                                                              |                 |                     | 75      | 0         | 21.12               | 21.14     | 21.27     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 21.59               |           |           |
|                                                              |                 | 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         | 23.00               | 22.98     | 22.99     |
|                                                              |                 |                     | 1       | 49        | 23.21               | 23.19     | 23.40     |
|                                                              |                 |                     | 1       | 99        | 22.94               | 23.08     | 23.15     |
|                                                              |                 |                     | 50      | 0         | 22.15               | 22.09     | 22.20     |
|                                                              |                 |                     | 50      | 24        | 22.15               | 22.10     | 22.22     |
|                                                              |                 |                     | 50      | 49        | 22.14               | 22.11     | 22.18     |
|                                                              |                 |                     | 100     | 0         | 22.14               | 22.13     | 22.23     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 22.70               |           |           |
|                                                              |                 | EIRP Limit (dBm):   |         |           | 30.00               |           |           |
|                                                              |                 | 16QAM               | 1       | 0         | 21.85               | 21.88     | 22.06     |
|                                                              |                 |                     | 1       | 49        | 22.09               | 22.09     | 22.38     |
|                                                              |                 |                     | 1       | 99        | 21.86               | 22.07     | 22.18     |
|                                                              |                 |                     | 50      | 0         | 21.16               | 21.06     | 21.17     |
|                                                              |                 |                     | 50      | 24        | 21.13               | 21.09     | 21.18     |
|                                                              |                 |                     | 50      | 49        | 21.13               | 21.09     | 21.17     |
|                                                              |                 |                     | 100     | 0         | 21.08               | 21.09     | 21.24     |
|                                                              |                 | Antenna Gain (dBi): |         |           | -0.7                |           |           |
|                                                              |                 | Max. EIRP (dBm):    |         |           | 21.68               |           |           |
|                                                              |                 | 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         | 23.80               | 23.77    | 23.78     |  |
|                                                                                                      |                 |                    | 1       | 2         | 23.93               | 23.87    | 23.83     |  |
|                                                                                                      |                 |                    | 1       | 5         | 23.80               | 23.75    | 23.84     |  |
|                                                                                                      |                 |                    | 3       | 0         | 22.73               | 22.86    | 22.86     |  |
|                                                                                                      |                 |                    | 3       | 1         | 22.81               | 22.81    | 22.86     |  |
|                                                                                                      |                 |                    | 3       | 2         | 22.85               | 22.77    | 22.86     |  |
|                                                                                                      |                 |                    | 6       | 0         | 22.83               | 22.87    | 22.93     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 20.28    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.68               | 22.68    | 22.79     |  |
|                                                                                                      |                 |                    | 1       | 2         | 22.76               | 22.78    | 22.88     |  |
|                                                                                                      |                 |                    | 1       | 5         | 22.66               | 22.66    | 22.68     |  |
|                                                                                                      |                 |                    | 3       | 0         | 21.61               | 21.64    | 21.66     |  |
|                                                                                                      |                 |                    | 3       | 1         | 21.65               | 21.65    | 21.66     |  |
|                                                                                                      |                 |                    | 3       | 2         | 21.65               | 21.60    | 21.67     |  |
|                                                                                                      |                 |                    | 6       | 0         | 21.64               | 21.80    | 21.89     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.23    |           |  |
|                                                                                                      |                 | 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         | 23.79               | 23.84    | 23.87     |  |
|                                                                                                      |                 |                    | 1       | 7         | 23.73               | 23.79    | 23.77     |  |
|                                                                                                      |                 |                    | 1       | 14        | 23.73               | 23.86    | 23.90     |  |
|                                                                                                      |                 |                    | 8       | 0         | 22.70               | 22.80    | 22.86     |  |
|                                                                                                      |                 |                    | 8       | 4         | 22.70               | 22.79    | 22.86     |  |
|                                                                                                      |                 |                    | 8       | 7         | 22.77               | 22.78    | 22.89     |  |
|                                                                                                      |                 |                    | 15      | 0         | 22.68               | 22.79    | 22.88     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 20.25    |           |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |           |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.81               | 22.72    | 22.66     |  |
|                                                                                                      |                 |                    | 1       | 7         | 22.75               | 22.62    | 22.63     |  |
|                                                                                                      |                 |                    | 1       | 14        | 22.83               | 22.66    | 22.65     |  |
|                                                                                                      |                 |                    | 8       | 0         | 21.74               | 21.75    | 21.82     |  |
|                                                                                                      |                 |                    | 8       | 4         | 21.77               | 21.73    | 21.82     |  |
|                                                                                                      |                 |                    | 8       | 7         | 21.72               | 21.71    | 21.88     |  |
|                                                                                                      |                 |                    | 15      | 0         | 21.76               | 21.67    | 21.77     |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |           |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.18    |           |  |
|                                                                                                      |                 | 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         | 23.84               | 23.76    | 23.86    |  |
|                                                                                                      |                 |                    | 1       | 12        | 23.77               | 23.78    | 23.87    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.80               | 23.78    | 23.96    |  |
|                                                                                                      |                 |                    | 12      | 0         | 22.78               | 22.80    | 22.93    |  |
|                                                                                                      |                 |                    | 12      | 6         | 22.75               | 22.78    | 22.89    |  |
|                                                                                                      |                 |                    | 12      | 11        | 22.75               | 22.77    | 22.91    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.80               | 22.75    | 22.93    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 20.31    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.80               | 22.92    | 22.87    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.79               | 22.83    | 22.83    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.81               | 22.86    | 22.86    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.67               | 21.83    | 21.90    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.75               | 21.77    | 21.90    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.71               | 21.76    | 21.94    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.76               | 21.74    | 21.97    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.21    |          |  |
|                                                                                                      |                 | 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         | 23.76               | 23.75    | 23.76    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.79               | 23.91    | 23.88    |  |
|                                                                                                      |                 |                    | 1       | 49        | 23.76               | 23.88    | 23.85    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.79               | 22.76    | 22.98    |  |
|                                                                                                      |                 |                    | 25      | 12        | 22.80               | 22.99    | 22.98    |  |
|                                                                                                      |                 |                    | 25      | 24        | 22.87               | 22.87    | 22.91    |  |
|                                                                                                      |                 |                    | 50      | 0         | 22.83               | 22.76    | 22.91    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 20.26    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 38.45    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.79               | 22.69    | 22.62    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.88               | 22.77    | 22.72    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.76               | 22.76    | 22.68    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.80               | 21.79    | 22.02    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.77               | 21.82    | 22.00    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.87               | 21.86    | 21.97    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.78               | 21.84    | 21.98    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.5     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.23    |          |  |
|                                                                                                      |                 | 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         | 22.91               | 23.05     | 23.02     |  |
|                                                              |                 |                     | 1       | 12        | 22.93               | 23.06     | 22.63     |  |
|                                                              |                 |                     | 1       | 24        | 22.91               | 22.95     | 22.53     |  |
|                                                              |                 |                     | 12      | 0         | 21.83               | 22.05     | 21.63     |  |
|                                                              |                 |                     | 12      | 6         | 21.83               | 22.05     | 22.02     |  |
|                                                              |                 |                     | 12      | 11        | 21.81               | 22.03     | 22.02     |  |
|                                                              |                 |                     | 25      | 0         | 21.92               | 22.02     | 22.05     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.66     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.85               | 21.97     | 21.75     |  |
|                                                              |                 |                     | 1       | 12        | 21.87               | 21.97     | 21.78     |  |
|                                                              |                 |                     | 1       | 24        | 21.67               | 21.99     | 21.59     |  |
|                                                              |                 |                     | 12      | 0         | 20.88               | 21.09     | 21.03     |  |
|                                                              |                 |                     | 12      | 6         | 20.93               | 21.06     | 21.11     |  |
|                                                              |                 |                     | 12      | 11        | 20.99               | 21.05     | 21.10     |  |
|                                                              |                 |                     | 25      | 0         | 21.07               | 21.06     | 21.07     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.59     |                     |           |           |  |
| 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         | 22.90               | 23.03     | 23.06     |  |
|                                                              |                 |                     | 1       | 24        | 22.86               | 23.08     | 23.12     |  |
|                                                              |                 |                     | 1       | 49        | 22.92               | 23.00     | 22.98     |  |
|                                                              |                 |                     | 25      | 0         | 21.94               | 22.09     | 22.08     |  |
|                                                              |                 |                     | 25      | 12        | 21.94               | 22.08     | 22.08     |  |
|                                                              |                 |                     | 25      | 24        | 21.93               | 22.10     | 22.07     |  |
|                                                              |                 |                     | 50      | 0         | 21.96               | 22.08     | 22.04     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.72     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.91               | 22.00     | 21.89     |  |
|                                                              |                 |                     | 1       | 24        | 21.93               | 22.04     | 21.97     |  |
|                                                              |                 |                     | 1       | 49        | 21.74               | 22.01     | 21.43     |  |
|                                                              |                 |                     | 25      | 0         | 20.99               | 21.10     | 21.05     |  |
|                                                              |                 |                     | 25      | 12        | 20.99               | 21.12     | 21.14     |  |
|                                                              |                 |                     | 25      | 24        | 21.03               | 21.12     | 21.14     |  |
|                                                              |                 |                     | 50      | 0         | 21.03               | 21.11     | 21.14     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.64     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |           |           |  |

| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|-----------|-----------|--|
|                                                              |                 |                     |         |           | 20825               | 21100     | 21375     |  |
|                                                              |                 |                     |         |           | 2507.5MHz           | 2535.0MHz | 2562.5MHz |  |
| 7                                                            | 15              | QPSK                | 1       | 0         | 22.78               | 22.94     | 22.89     |  |
|                                                              |                 |                     | 1       | 37        | 22.90               | 22.97     | 22.93     |  |
|                                                              |                 |                     | 1       | 74        | 22.81               | 22.95     | 22.90     |  |
|                                                              |                 |                     | 36      | 0         | 21.84               | 21.95     | 22.01     |  |
|                                                              |                 |                     | 36      | 16        | 21.90               | 21.95     | 22.07     |  |
|                                                              |                 |                     | 36      | 35        | 21.89               | 21.98     | 22.08     |  |
|                                                              |                 |                     | 75      | 0         | 21.96               | 22.14     | 22.07     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.57     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.83               | 21.97     | 21.99     |  |
|                                                              |                 |                     | 1       | 37        | 21.87               | 21.97     | 22.02     |  |
|                                                              |                 |                     | 1       | 74        | 21.84               | 22.00     | 21.78     |  |
|                                                              |                 |                     | 36      | 0         | 20.83               | 20.95     | 21.02     |  |
|                                                              |                 |                     | 36      | 16        | 20.87               | 20.98     | 21.07     |  |
|                                                              |                 |                     | 36      | 35        | 20.89               | 20.95     | 21.05     |  |
|                                                              |                 |                     | 75      | 0         | 20.94               | 21.04     | 21.06     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.62     |                     |           |           |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |           |           |  |
|                                                              |                 |                     |         |           |                     |           |           |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |           |           |  |
|                                                              |                 |                     |         |           | 20850               | 21100     | 21350     |  |
|                                                              |                 |                     |         |           | 2510.0MHz           | 2535.0MHz | 2560.0MHz |  |
| 7                                                            | 20              | QPSK                | 1       | 0         | 22.73               | 22.84     | 22.85     |  |
|                                                              |                 |                     | 1       | 49        | 22.91               | 23.04     | 23.19     |  |
|                                                              |                 |                     | 1       | 99        | 22.76               | 22.88     | 22.93     |  |
|                                                              |                 |                     | 50      | 0         | 21.79               | 21.94     | 21.99     |  |
|                                                              |                 |                     | 50      | 24        | 21.75               | 21.98     | 22.01     |  |
|                                                              |                 |                     | 50      | 49        | 21.82               | 21.94     | 22.02     |  |
|                                                              |                 |                     | 100     | 0         | 21.88               | 22.01     | 22.03     |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4      |           |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.79     |           |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00     |           |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.64               | 21.78     | 21.96     |  |
|                                                              |                 |                     | 1       | 49        | 21.94               | 22.04     | 22.18     |  |
|                                                              |                 |                     | 1       | 99        | 21.63               | 21.79     | 22.02     |  |
|                                                              |                 |                     | 50      | 0         | 20.85               | 21.03     | 21.05     |  |
|                                                              |                 |                     | 50      | 24        | 20.85               | 20.96     | 21.03     |  |
|                                                              |                 |                     | 50      | 49        | 20.89               | 21.02     | 21.03     |  |
|                                                              |                 |                     | 100     | 0         | 20.90               | 21.02     | 21.04     |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |           |           |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.78     |                     |           |           |  |
| 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) |          |          |  |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------|-----------|---------------------|----------|----------|--|
|                                                                                                      |                 |                    |         |           | 23755               | 23790    | 23825    |  |
|                                                                                                      |                 |                    |         |           | 706.5MHz            | 710.0MHz | 713.5MHz |  |
| 17                                                                                                   | 5               | QPSK               | 1       | 0         | 23.47               | 23.43    | 23.50    |  |
|                                                                                                      |                 |                    | 1       | 12        | 23.49               | 23.44    | 23.50    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.53               | 23.54    | 23.56    |  |
|                                                                                                      |                 |                    | 12      | 0         | 22.39               | 22.41    | 22.61    |  |
|                                                                                                      |                 |                    | 12      | 6         | 22.41               | 22.38    | 22.58    |  |
|                                                                                                      |                 |                    | 12      | 11        | 22.40               | 22.41    | 22.60    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.48               | 22.41    | 22.57    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.9     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.51    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.42               | 22.52    | 22.36    |  |
|                                                                                                      |                 |                    | 1       | 12        | 22.39               | 22.52    | 22.39    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.47               | 22.61    | 22.47    |  |
|                                                                                                      |                 |                    | 12      | 0         | 21.33               | 21.42    | 21.61    |  |
|                                                                                                      |                 |                    | 12      | 6         | 21.34               | 21.37    | 21.57    |  |
|                                                                                                      |                 |                    | 12      | 11        | 21.36               | 21.36    | 21.57    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.50               | 21.38    | 21.57    |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.9      |                     |          |          |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 18.56     |                     |          |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 34.77     |                     |          |          |  |
|                                                                                                      |                 |                    |         |           |                     |          |          |  |
| LTE Band                                                                                             | Bandwidth (MHz) | Modulation         | RB Size | RB Offset | Average Power (dBm) |          |          |  |
|                                                                                                      |                 |                    |         |           | 23780               | 23790    | 23800    |  |
|                                                                                                      |                 |                    |         |           | 709.0MHz            | 710.0MHz | 711.0MHz |  |
| 17                                                                                                   | 10              | QPSK               | 1       | 0         | 23.39               | 23.45    | 23.50    |  |
|                                                                                                      |                 |                    | 1       | 24        | 23.58               | 23.50    | 23.52    |  |
|                                                                                                      |                 |                    | 1       | 49        | 23.53               | 23.55    | 23.54    |  |
|                                                                                                      |                 |                    | 25      | 0         | 22.40               | 22.42    | 22.42    |  |
|                                                                                                      |                 |                    | 25      | 12        | 22.57               | 22.45    | 22.43    |  |
|                                                                                                      |                 |                    | 25      | 24        | 22.39               | 22.41    | 22.46    |  |
|                                                                                                      |                 |                    | 50      | 0         | 22.59               | 22.44    | 22.46    |  |
|                                                                                                      |                 | Antenna Gain(dBi): |         |           |                     | -1.9     |          |  |
|                                                                                                      |                 | Max. ERP (dBm):    |         |           |                     | 19.53    |          |  |
|                                                                                                      |                 | ERP Limit (dBm):   |         |           |                     | 34.77    |          |  |
|                                                                                                      |                 | 16QAM              | 1       | 0         | 22.38               | 22.29    | 22.17    |  |
|                                                                                                      |                 |                    | 1       | 24        | 22.59               | 22.36    | 22.37    |  |
|                                                                                                      |                 |                    | 1       | 49        | 22.56               | 22.39    | 22.30    |  |
|                                                                                                      |                 |                    | 25      | 0         | 21.44               | 21.40    | 21.41    |  |
|                                                                                                      |                 |                    | 25      | 12        | 21.41               | 21.39    | 21.45    |  |
|                                                                                                      |                 |                    | 25      | 24        | 21.42               | 21.42    | 21.45    |  |
|                                                                                                      |                 |                    | 50      | 0         | 21.44               | 21.37    | 21.47    |  |
| Antenna Gain(dBi):                                                                                   |                 |                    |         | -1.9      |                     |          |          |  |
| Max. ERP (dBm):                                                                                      |                 |                    |         | 18.54     |                     |          |          |  |
| ERP Limit (dBm):                                                                                     |                 |                    |         | 34.77     |                     |          |          |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).<br>ERP (dBm ) = EIRP (dBm) - 2.15 (dB). |                 |                    |         |           |                     |          |          |  |

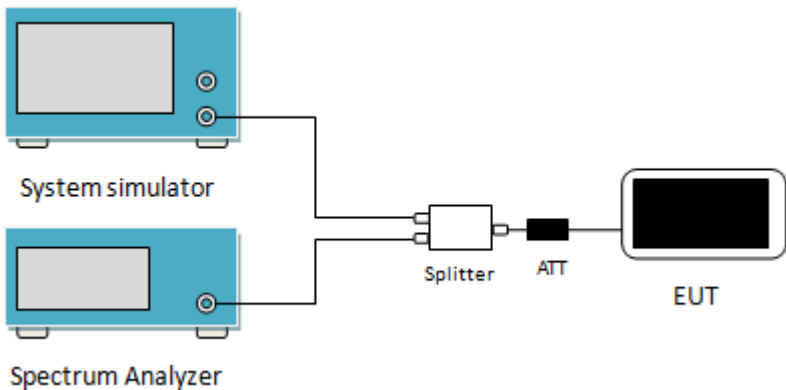
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|------------|------------|--|
|                                                              |                 |                     |         |           | 37775               | 38000      | 38225      |  |
|                                                              |                 |                     |         |           | 2572.50MHz          | 2595.00MHz | 2617.50MHz |  |
| 38                                                           | 5               | QPSK                | 1       | 0         | 23.17               | 23.20      | 23.11      |  |
|                                                              |                 |                     | 1       | 12        | 23.19               | 23.18      | 23.09      |  |
|                                                              |                 |                     | 1       | 24        | 23.21               | 23.18      | 23.15      |  |
|                                                              |                 |                     | 12      | 0         | 22.11               | 22.09      | 22.03      |  |
|                                                              |                 |                     | 12      | 6         | 22.11               | 22.11      | 22.01      |  |
|                                                              |                 |                     | 12      | 11        | 22.12               | 22.08      | 22.02      |  |
|                                                              |                 |                     | 25      | 0         | 22.09               | 22.08      | 22.05      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.81      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.09               | 22.12      | 22.15      |  |
|                                                              |                 |                     | 1       | 12        | 22.08               | 22.07      | 22.12      |  |
|                                                              |                 |                     | 1       | 24        | 22.14               | 22.08      | 22.14      |  |
|                                                              |                 |                     | 12      | 0         | 21.11               | 21.02      | 21.02      |  |
|                                                              |                 |                     | 12      | 6         | 21.04               | 21.03      | 21.04      |  |
|                                                              |                 |                     | 12      | 11        | 21.04               | 21.03      | 21.04      |  |
|                                                              |                 |                     | 25      | 0         | 21.08               | 21.08      | 20.98      |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |            |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.75     |                     |            |            |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |            |            |  |
|                                                              |                 |                     |         |           |                     |            |            |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|                                                              |                 |                     |         |           | 378000              | 38000      | 38200      |  |
|                                                              |                 |                     |         |           | 2575.00MHz          | 2595.00MHz | 2615.00MHz |  |
| 38                                                           | 10              | QPSK                | 1       | 0         | 23.14               | 23.15      | 23.12      |  |
|                                                              |                 |                     | 1       | 24        | 23.30               | 23.40      | 23.22      |  |
|                                                              |                 |                     | 1       | 49        | 23.14               | 23.27      | 23.10      |  |
|                                                              |                 |                     | 25      | 0         | 22.12               | 22.09      | 22.08      |  |
|                                                              |                 |                     | 25      | 12        | 22.11               | 22.07      | 22.07      |  |
|                                                              |                 |                     | 25      | 24        | 22.09               | 22.12      | 22.05      |  |
|                                                              |                 |                     | 50      | 0         | 22.12               | 22.07      | 22.00      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 23.00      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.13               | 22.01      | 21.88      |  |
|                                                              |                 |                     | 1       | 24        | 22.16               | 22.20      | 22.07      |  |
|                                                              |                 |                     | 1       | 49        | 22.24               | 21.99      | 21.86      |  |
|                                                              |                 |                     | 25      | 0         | 21.09               | 21.10      | 21.05      |  |
|                                                              |                 |                     | 25      | 12        | 21.08               | 21.06      | 21.04      |  |
|                                                              |                 |                     | 25      | 24        | 21.09               | 21.09      | 21.05      |  |
|                                                              |                 |                     | 50      | 0         | 21.12               | 21.10      | 21.00      |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |            |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.84     |                     |            |            |  |
| 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      |  |
|                                                              |                 |                     |         |           | 2577.50MHz          | 2595.00MHz | 2612.50MHz |  |
| 38                                                           | 15              | QPSK                | 1       | 0         | 23.14               | 23.06      | 23.09      |  |
|                                                              |                 |                     | 1       | 37        | 23.13               | 23.01      | 22.99      |  |
|                                                              |                 |                     | 1       | 74        | 23.03               | 23.07      | 22.92      |  |
|                                                              |                 |                     | 36      | 0         | 22.10               | 22.14      | 22.15      |  |
|                                                              |                 |                     | 36      | 16        | 22.10               | 22.15      | 22.12      |  |
|                                                              |                 |                     | 36      | 35        | 22.13               | 22.15      | 22.10      |  |
|                                                              |                 |                     | 75      | 0         | 22.13               | 22.11      | 22.12      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.74      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.12               | 22.18      | 22.06      |  |
|                                                              |                 |                     | 1       | 37        | 22.11               | 22.16      | 22.10      |  |
|                                                              |                 |                     | 1       | 74        | 22.01               | 22.31      | 22.18      |  |
|                                                              |                 |                     | 36      | 0         | 21.07               | 21.20      | 21.12      |  |
|                                                              |                 |                     | 36      | 16        | 21.14               | 21.18      | 21.12      |  |
|                                                              |                 |                     | 36      | 35        | 21.16               | 21.15      | 21.11      |  |
|                                                              |                 |                     | 75      | 0         | 21.11               | 21.07      | 21.04      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.91     |                     |            |            |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |            |            |  |
|                                                              |                 |                     |         |           |                     |            |            |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|                                                              |                 |                     |         |           | 37850               | 38000      | 38150      |  |
|                                                              |                 |                     |         |           | 2580.00MHz          | 2595.00MHz | 2610.00MHz |  |
| 38                                                           | 20              | QPSK                | 1       | 0         | 22.98               | 22.97      | 22.93      |  |
|                                                              |                 |                     | 1       | 49        | 23.37               | 23.34      | 23.24      |  |
|                                                              |                 |                     | 1       | 99        | 23.04               | 23.02      | 22.89      |  |
|                                                              |                 |                     | 50      | 0         | 22.09               | 22.10      | 22.10      |  |
|                                                              |                 |                     | 50      | 24        | 22.10               | 22.06      | 22.12      |  |
|                                                              |                 |                     | 50      | 49        | 22.14               | 22.08      | 22.11      |  |
|                                                              |                 |                     | 100     | 0         | 22.09               | 22.11      | 22.10      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.97      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.91               | 22.12      | 21.74      |  |
|                                                              |                 |                     | 1       | 49        | 22.25               | 22.46      | 22.11      |  |
|                                                              |                 |                     | 1       | 99        | 21.92               | 22.11      | 21.75      |  |
|                                                              |                 |                     | 50      | 0         | 21.10               | 21.08      | 21.13      |  |
|                                                              |                 |                     | 50      | 24        | 21.06               | 21.11      | 21.15      |  |
|                                                              |                 |                     | 50      | 49        | 21.11               | 21.09      | 21.13      |  |
|                                                              |                 |                     | 100     | 0         | 21.16               | 21.06      | 21.08      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 22.06     |                     |            |            |  |
| 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      |  |
|                                                              |                 |                     |         |           | 2537.50MHz          | 2595.00MHz | 2652.50MHz |  |
| 41                                                           | 5               | QPSK                | 1       | 0         | 23.16               | 23.02      | 23.11      |  |
|                                                              |                 |                     | 1       | 12        | 23.10               | 23.06      | 23.14      |  |
|                                                              |                 |                     | 1       | 24        | 23.16               | 22.98      | 23.12      |  |
|                                                              |                 |                     | 12      | 0         | 22.06               | 22.08      | 22.25      |  |
|                                                              |                 |                     | 12      | 6         | 22.04               | 22.01      | 22.11      |  |
|                                                              |                 |                     | 12      | 11        | 22.00               | 22.07      | 22.13      |  |
|                                                              |                 |                     | 25      | 0         | 22.08               | 22.02      | 22.02      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.76      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.04               | 21.95      | 22.01      |  |
|                                                              |                 |                     | 1       | 12        | 22.03               | 22.10      | 22.02      |  |
|                                                              |                 |                     | 1       | 24        | 22.02               | 22.15      | 22.03      |  |
|                                                              |                 |                     | 12      | 0         | 21.01               | 20.97      | 20.95      |  |
|                                                              |                 |                     | 12      | 6         | 21.02               | 20.99      | 21.12      |  |
|                                                              |                 |                     | 12      | 11        | 20.98               | 20.95      | 20.90      |  |
|                                                              |                 |                     | 25      | 0         | 21.10               | 21.05      | 21.02      |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |            |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.75     |                     |            |            |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |            |            |  |
|                                                              |                 |                     |         |           |                     |            |            |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|                                                              |                 |                     |         |           | 40090               | 40640      | 41190      |  |
|                                                              |                 |                     |         |           | 2540.00MHz          | 2595.00MHz | 2650.00MHz |  |
| 41                                                           | 10              | QPSK                | 1       | 0         | 23.03               | 23.13      | 23.02      |  |
|                                                              |                 |                     | 1       | 24        | 23.34               | 23.34      | 23.29      |  |
|                                                              |                 |                     | 1       | 49        | 23.05               | 23.14      | 23.05      |  |
|                                                              |                 |                     | 25      | 0         | 22.03               | 22.04      | 22.04      |  |
|                                                              |                 |                     | 25      | 12        | 22.01               | 22.02      | 22.00      |  |
|                                                              |                 |                     | 25      | 24        | 22.02               | 22.01      | 22.06      |  |
|                                                              |                 |                     | 50      | 0         | 22.11               | 22.04      | 22.02      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.94      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.08               | 21.94      | 21.79      |  |
|                                                              |                 |                     | 1       | 24        | 22.31               | 22.17      | 22.05      |  |
|                                                              |                 |                     | 1       | 49        | 22.05               | 21.91      | 21.82      |  |
|                                                              |                 |                     | 25      | 0         | 21.03               | 21.02      | 21.00      |  |
|                                                              |                 |                     | 25      | 12        | 21.01               | 21.04      | 21.00      |  |
|                                                              |                 |                     | 25      | 24        | 21.03               | 21.06      | 21.12      |  |
|                                                              |                 |                     | 50      | 0         | 21.08               | 21.07      | 20.96      |  |
| Antenna Gain (dBi):                                          |                 |                     |         | -0.4      |                     |            |            |  |
| Max. EIRP (dBm):                                             |                 |                     |         | 21.91     |                     |            |            |  |
| EIRP Limit (dBm):                                            |                 |                     |         | 33.00     |                     |            |            |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |            |            |  |

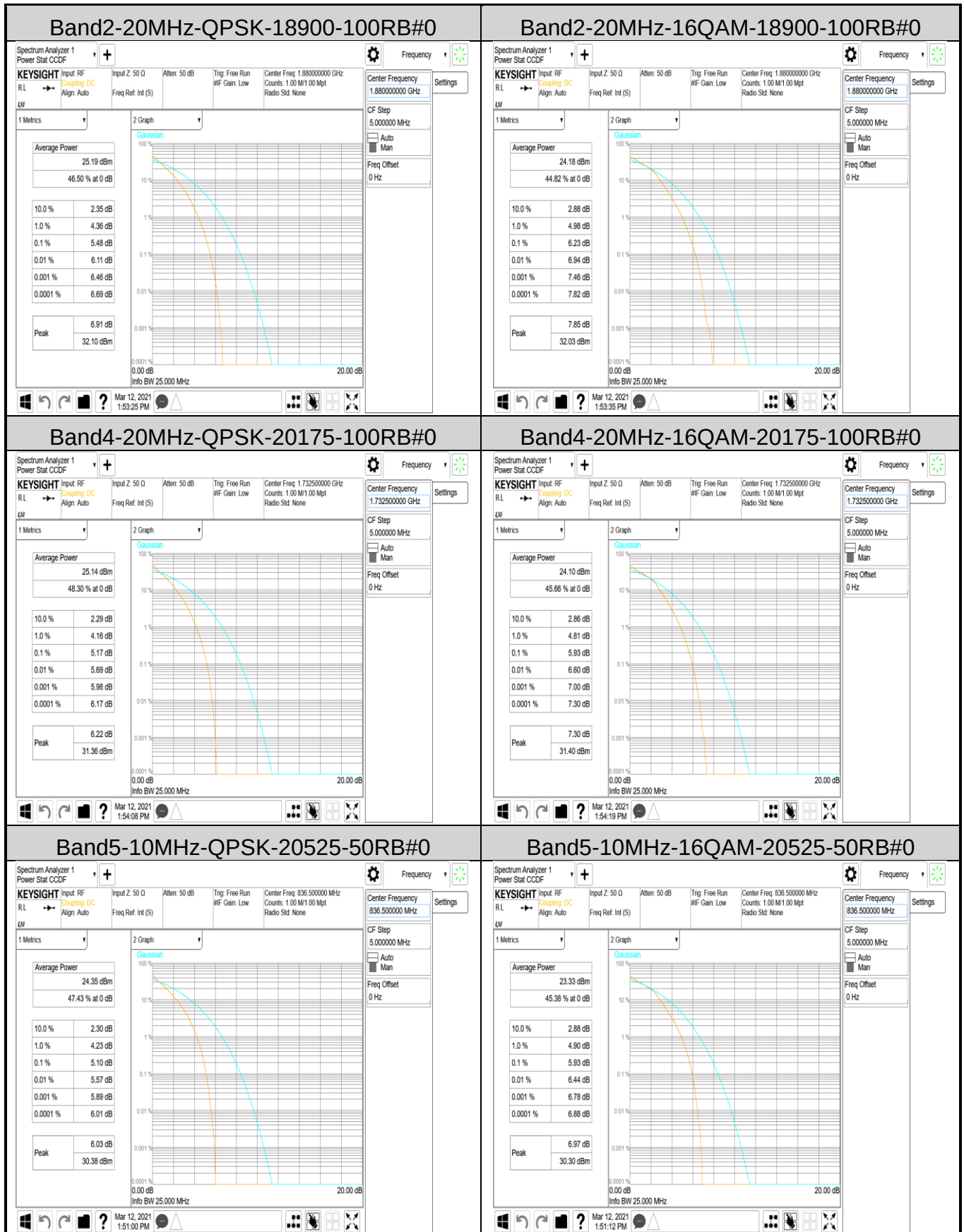
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|--------------------------------------------------------------|-----------------|---------------------|---------|-----------|---------------------|------------|------------|--|
|                                                              |                 |                     |         |           | 40115               | 40640      | 41165      |  |
|                                                              |                 |                     |         |           | 2542.50MHz          | 2595.00MHz | 2647.50MHz |  |
| 41                                                           | 15              | QPSK                | 1       | 0         | 23.05               | 22.96      | 23.06      |  |
|                                                              |                 |                     | 1       | 37        | 23.05               | 23.00      | 23.11      |  |
|                                                              |                 |                     | 1       | 74        | 23.01               | 23.08      | 23.00      |  |
|                                                              |                 |                     | 36      | 0         | 22.02               | 22.14      | 21.81      |  |
|                                                              |                 |                     | 36      | 16        | 22.05               | 22.14      | 21.81      |  |
|                                                              |                 |                     | 36      | 35        | 22.04               | 22.11      | 21.82      |  |
|                                                              |                 |                     | 75      | 0         | 22.12               | 22.12      | 22.04      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.71      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 22.04               | 22.14      | 21.80      |  |
|                                                              |                 |                     | 1       | 37        | 22.05               | 22.12      | 21.84      |  |
|                                                              |                 |                     | 1       | 74        | 22.00               | 22.15      | 21.77      |  |
|                                                              |                 |                     | 36      | 0         | 21.05               | 21.12      | 20.78      |  |
|                                                              |                 |                     | 36      | 16        | 21.05               | 21.15      | 20.84      |  |
|                                                              |                 |                     | 36      | 35        | 21.07               | 21.14      | 20.85      |  |
|                                                              |                 |                     | 75      | 0         | 21.01               | 21.07      | 21.01      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 21.75      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 |                     |         |           |                     |            |            |  |
| LTE Band                                                     | Bandwidth (MHz) | Modulation          | RB Size | RB Offset | Average Power (dBm) |            |            |  |
|                                                              |                 |                     |         |           | 40140               | 40640      | 41140      |  |
|                                                              |                 |                     |         |           | 2545.00MHz          | 2595.00MHz | 2645.00MHz |  |
| 41                                                           | 20              | QPSK                | 1       | 0         | 22.92               | 23.02      | 22.83      |  |
|                                                              |                 |                     | 1       | 49        | 23.33               | 23.34      | 23.26      |  |
|                                                              |                 |                     | 1       | 99        | 22.98               | 23.02      | 22.89      |  |
|                                                              |                 |                     | 50      | 0         | 21.87               | 22.08      | 22.00      |  |
|                                                              |                 |                     | 50      | 24        | 21.89               | 22.07      | 22.06      |  |
|                                                              |                 |                     | 50      | 49        | 21.89               | 22.08      | 22.05      |  |
|                                                              |                 |                     | 100     | 0         | 22.04               | 22.08      | 22.08      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.94      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
|                                                              |                 | 16QAM               | 1       | 0         | 21.83               | 22.09      | 21.67      |  |
|                                                              |                 |                     | 1       | 49        | 22.20               | 22.45      | 22.07      |  |
|                                                              |                 |                     | 1       | 99        | 21.83               | 22.11      | 21.74      |  |
|                                                              |                 |                     | 50      | 0         | 20.89               | 21.10      | 21.08      |  |
|                                                              |                 |                     | 50      | 24        | 20.91               | 21.12      | 21.07      |  |
|                                                              |                 |                     | 50      | 49        | 20.88               | 21.07      | 21.09      |  |
|                                                              |                 |                     | 100     | 0         | 21.02               | 21.09      | 21.03      |  |
|                                                              |                 | Antenna Gain (dBi): |         |           |                     | -0.4       |            |  |
|                                                              |                 | Max. EIRP (dBm):    |         |           |                     | 22.05      |            |  |
|                                                              |                 | EIRP Limit (dBm):   |         |           |                     | 33.00      |            |  |
| Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). |                 |                     |         |           |                     |            |            |  |

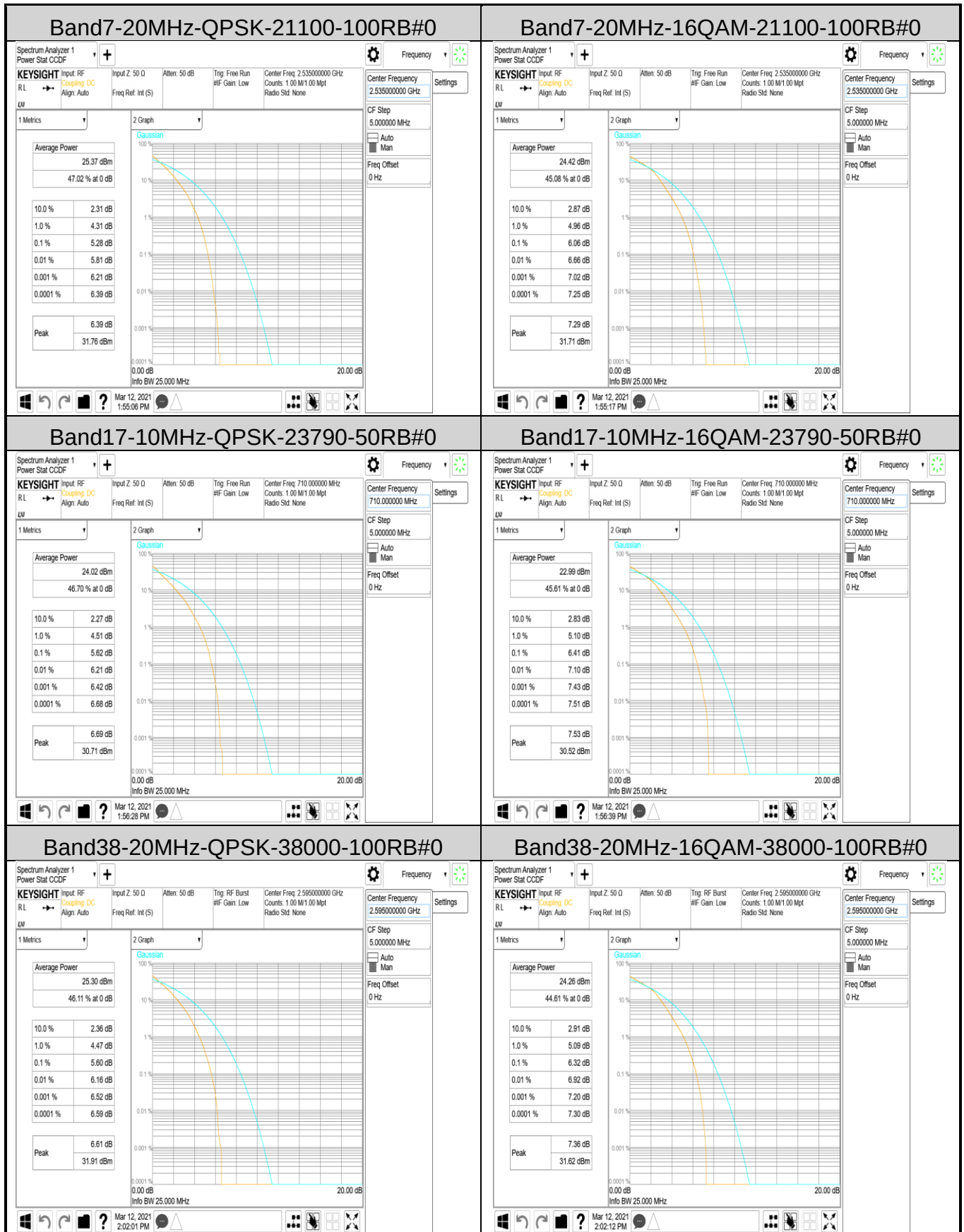
## 6.2 Peak-to-Average Ratio

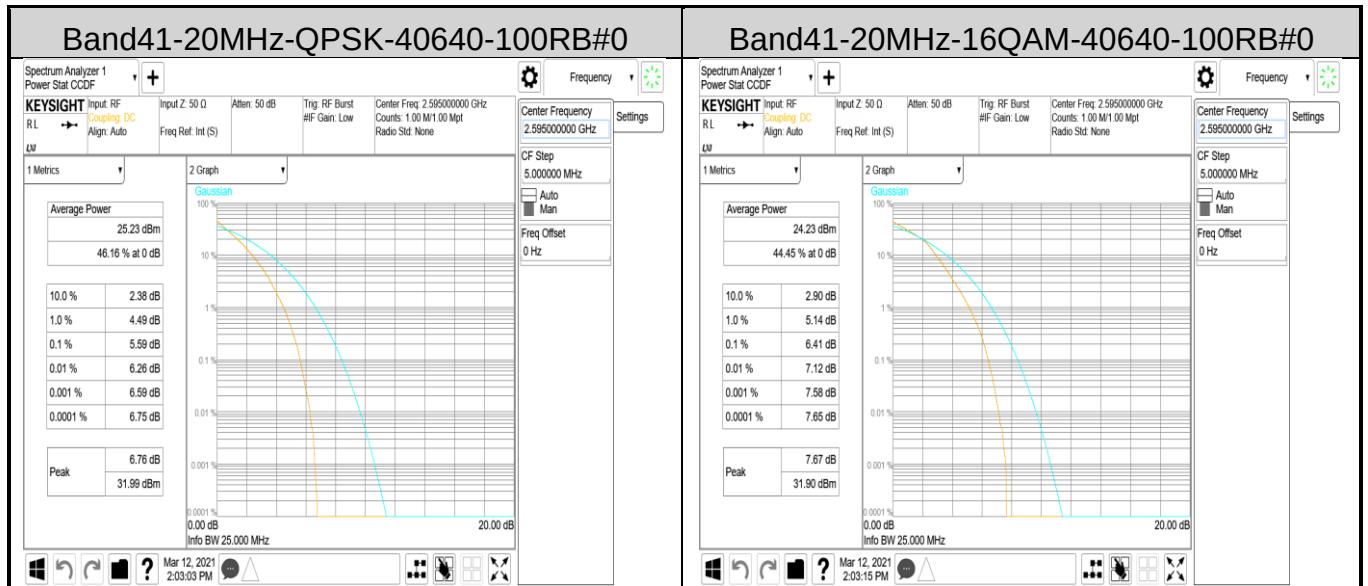
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:       |                                                                                                                                                                                                                                                                                                                              |
| 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:

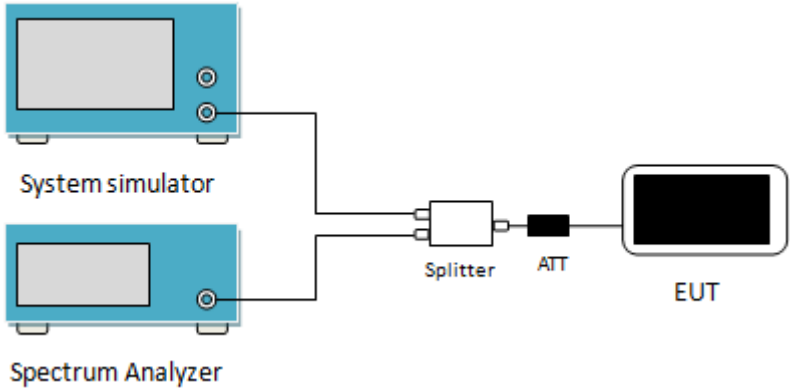
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2  | 20MHz     | QPSK       | 18900   | 100RB#0          | 5.48       | 13        | PASS    |
| Band2  | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.23       | 13        | PASS    |
| Band4  | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.17       | 13        | PASS    |
| Band4  | 20MHz     | 16QAM      | 20175   | 100RB#0          | 5.93       | 13        | PASS    |
| Band5  | 10MHz     | QPSK       | 20525   | 50RB#0           | 5.10       | 13        | PASS    |
| Band5  | 10MHz     | 16QAM      | 20525   | 50RB#0           | 5.93       | 13        | PASS    |
| Band7  | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.28       | 13        | PASS    |
| Band7  | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.06       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.62       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 6.41       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 5.60       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 6.32       | 13        | PASS    |
| Band41 | 20MHz     | QPSK       | 40640   | 100RB#0          | 5.59       | 13        | PASS    |
| Band41 | 20MHz     | 16QAM      | 40640   | 100RB#0          | 6.41       | 13        | PASS    |







### 6.3 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m)                                                                                                                                                                                                                                                                                                                                                   |
| Test Setup:       |  <p>The diagram shows a test setup for measuring occupied bandwidth. A System simulator and a Spectrum Analyzer are connected to a Splitter. The Splitter is connected to an ATT (Attenuator), which is then connected to the EUT (Equipment Under Test).</p>                                                                               |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                              |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Measurement Data:**

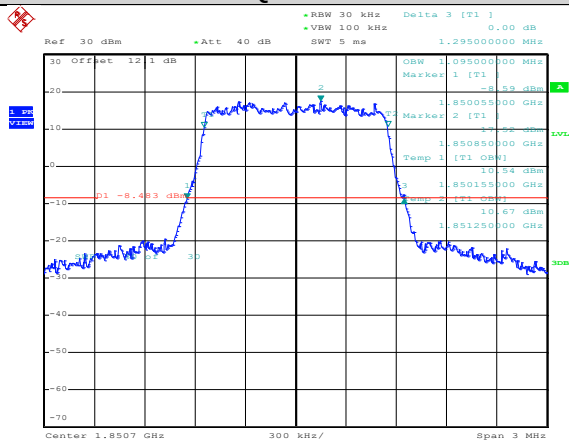
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.095                    | 1.295                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.095                    | 1.305                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.095                    | 1.300                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.1                      | 1.300                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.1                      | 1.325                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.105                    | 1.320                | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.73                     | 3.010                | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.73                     | 3.010                | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.72                     | 3.000                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.71                     | 3.020                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.72                     | 2.990                | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.72                     | 3.010                | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.49                     | 4.940                | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.5                      | 4.960                | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.5                      | 4.920                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.49                     | 4.980                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.49                     | 4.920                | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.5                      | 5.000                | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 9.1                      | 10.167               | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 9.1                      | 10.200               | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 9.1                      | 10.167               | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 9.1                      | 10.167               | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 9.1                      | 10.200               | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 9.1                      | 10.167               | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.55                    | 15.000               | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.55                    | 14.950               | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.45                    | 14.750               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.55                    | 14.800               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.55                    | 14.950               | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.55                    | 15.000               | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 17.933                   | 19.533               | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 18                       | 19.600               | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 17.933                   | 19.333               | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 18                       | 19.467               | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 18                       | 19.467               | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 17.933                   | 19.333               | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.095                    | 1.295                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.095                    | 1.300                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.1                      | 1.310                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.1                      | 1.310                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.1                      | 1.320                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.095                    | 1.295                | PASS    |

|       |        |       |       |         |        |        |      |
|-------|--------|-------|-------|---------|--------|--------|------|
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0  | 2.73   | 3.010  | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0  | 2.73   | 3.020  | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0  | 2.73   | 3.010  | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 15RB#0  | 2.72   | 3.010  | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 15RB#0  | 2.71   | 3.010  | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 15RB#0  | 2.72   | 3.000  | PASS |
| Band4 | 5MHz   | QPSK  | 19975 | 25RB#0  | 4.49   | 4.930  | PASS |
| Band4 | 5MHz   | QPSK  | 20175 | 25RB#0  | 4.5    | 4.950  | PASS |
| Band4 | 5MHz   | QPSK  | 20375 | 25RB#0  | 4.49   | 4.920  | PASS |
| Band4 | 5MHz   | 16QAM | 19975 | 25RB#0  | 4.49   | 4.980  | PASS |
| Band4 | 5MHz   | 16QAM | 20175 | 25RB#0  | 4.49   | 4.920  | PASS |
| Band4 | 5MHz   | 16QAM | 20375 | 25RB#0  | 4.5    | 4.970  | PASS |
| Band4 | 10MHz  | QPSK  | 20000 | 50RB#0  | 9.1    | 10.233 | PASS |
| Band4 | 10MHz  | QPSK  | 20175 | 50RB#0  | 9.1    | 10.233 | PASS |
| Band4 | 10MHz  | QPSK  | 20350 | 50RB#0  | 9.1    | 10.200 | PASS |
| Band4 | 10MHz  | 16QAM | 20000 | 50RB#0  | 9.1    | 10.233 | PASS |
| Band4 | 10MHz  | 16QAM | 20175 | 50RB#0  | 9.1    | 10.167 | PASS |
| Band4 | 10MHz  | 16QAM | 20350 | 50RB#0  | 9.1    | 10.133 | PASS |
| Band4 | 15MHz  | QPSK  | 20025 | 75RB#0  | 13.5   | 14.950 | PASS |
| Band4 | 15MHz  | QPSK  | 20175 | 75RB#0  | 13.55  | 15.000 | PASS |
| Band4 | 15MHz  | QPSK  | 20325 | 75RB#0  | 13.5   | 14.950 | PASS |
| Band4 | 15MHz  | 16QAM | 20025 | 75RB#0  | 13.5   | 14.900 | PASS |
| Band4 | 15MHz  | 16QAM | 20175 | 75RB#0  | 13.5   | 14.850 | PASS |
| Band4 | 15MHz  | 16QAM | 20325 | 75RB#0  | 13.5   | 14.950 | PASS |
| Band4 | 20MHz  | QPSK  | 20050 | 100RB#0 | 18     | 19.533 | PASS |
| Band4 | 20MHz  | QPSK  | 20175 | 100RB#0 | 18     | 19.533 | PASS |
| Band4 | 20MHz  | QPSK  | 20300 | 100RB#0 | 18     | 19.667 | PASS |
| Band4 | 20MHz  | 16QAM | 20050 | 100RB#0 | 18.067 | 19.600 | PASS |
| Band4 | 20MHz  | 16QAM | 20175 | 100RB#0 | 18     | 19.400 | PASS |
| Band4 | 20MHz  | 16QAM | 20300 | 100RB#0 | 17.933 | 19.467 | PASS |
| Band5 | 1.4MHz | QPSK  | 20407 | 6RB#0   | 1.095  | 1.305  | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0   | 1.1    | 1.460  | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0   | 1.095  | 1.300  | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0   | 1.105  | 1.320  | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0   | 1.105  | 1.340  | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0   | 1.1    | 1.300  | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0  | 2.72   | 3.010  | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0  | 2.73   | 3.190  | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 15RB#0  | 2.73   | 2.990  | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0  | 2.71   | 3.010  | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0  | 2.71   | 3.020  | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 15RB#0  | 2.73   | 3.000  | PASS |
| Band5 | 5MHz   | QPSK  | 20425 | 25RB#0  | 4.51   | 4.970  | PASS |
| Band5 | 5MHz   | QPSK  | 20525 | 25RB#0  | 4.5    | 4.960  | PASS |
| Band5 | 5MHz   | QPSK  | 20625 | 25RB#0  | 4.49   | 4.930  | PASS |
| Band5 | 5MHz   | 16QAM | 20425 | 25RB#0  | 4.5    | 4.930  | PASS |
| Band5 | 5MHz   | 16QAM | 20525 | 25RB#0  | 4.49   | 4.920  | PASS |

|        |       |       |       |         |        |        |      |
|--------|-------|-------|-------|---------|--------|--------|------|
| Band5  | 5MHz  | 16QAM | 20625 | 25RB#0  | 4.5    | 4.980  | PASS |
| Band5  | 10MHz | QPSK  | 20450 | 50RB#0  | 9.1    | 10.233 | PASS |
| Band5  | 10MHz | QPSK  | 20525 | 50RB#0  | 9.067  | 10.233 | PASS |
| Band5  | 10MHz | QPSK  | 20600 | 50RB#0  | 9.1    | 10.233 | PASS |
| Band5  | 10MHz | 16QAM | 20450 | 50RB#0  | 9.133  | 10.233 | PASS |
| Band5  | 10MHz | 16QAM | 20525 | 50RB#0  | 9.067  | 10.167 | PASS |
| Band5  | 10MHz | 16QAM | 20600 | 50RB#0  | 9.1    | 10.200 | PASS |
| Band7  | 5MHz  | QPSK  | 20775 | 25RB#0  | 4.5    | 4.920  | PASS |
| Band7  | 5MHz  | QPSK  | 21100 | 25RB#0  | 4.52   | 5.520  | PASS |
| Band7  | 5MHz  | QPSK  | 21425 | 25RB#0  | 4.51   | 5.330  | PASS |
| Band7  | 5MHz  | 16QAM | 20775 | 25RB#0  | 4.5    | 4.940  | PASS |
| Band7  | 5MHz  | 16QAM | 21100 | 25RB#0  | 4.5    | 5.380  | PASS |
| Band7  | 5MHz  | 16QAM | 21425 | 25RB#0  | 4.51   | 5.410  | PASS |
| Band7  | 10MHz | QPSK  | 20800 | 50RB#0  | 9.1    | 10.200 | PASS |
| Band7  | 10MHz | QPSK  | 21100 | 50RB#0  | 9.1    | 10.333 | PASS |
| Band7  | 10MHz | QPSK  | 21400 | 50RB#0  | 9.133  | 10.633 | PASS |
| Band7  | 10MHz | 16QAM | 20800 | 50RB#0  | 9.1    | 10.100 | PASS |
| Band7  | 10MHz | 16QAM | 21100 | 50RB#0  | 9.1    | 10.100 | PASS |
| Band7  | 10MHz | 16QAM | 21400 | 50RB#0  | 9.1    | 10.100 | PASS |
| Band7  | 15MHz | QPSK  | 20825 | 75RB#0  | 13.55  | 15.000 | PASS |
| Band7  | 15MHz | QPSK  | 21100 | 75RB#0  | 13.55  | 16.050 | PASS |
| Band7  | 15MHz | QPSK  | 21375 | 75RB#0  | 13.55  | 15.400 | PASS |
| Band7  | 15MHz | 16QAM | 20825 | 75RB#0  | 13.55  | 14.850 | PASS |
| Band7  | 15MHz | 16QAM | 21100 | 75RB#0  | 13.55  | 14.850 | PASS |
| Band7  | 15MHz | 16QAM | 21375 | 75RB#0  | 13.5   | 14.900 | PASS |
| Band7  | 20MHz | QPSK  | 20850 | 100RB#0 | 17.933 | 19.533 | PASS |
| Band7  | 20MHz | QPSK  | 21100 | 100RB#0 | 18     | 20.400 | PASS |
| Band7  | 20MHz | QPSK  | 21350 | 100RB#0 | 18     | 20.600 | PASS |
| Band7  | 20MHz | 16QAM | 20850 | 100RB#0 | 18     | 19.533 | PASS |
| Band7  | 20MHz | 16QAM | 21100 | 100RB#0 | 18     | 19.867 | PASS |
| Band7  | 20MHz | 16QAM | 21350 | 100RB#0 | 17.933 | 19.400 | PASS |
| Band17 | 5MHz  | QPSK  | 23755 | 25RB#0  | 4.53   | 5.220  | PASS |
| Band17 | 5MHz  | QPSK  | 23790 | 25RB#0  | 4.51   | 5.140  | PASS |
| Band17 | 5MHz  | QPSK  | 23825 | 25RB#0  | 4.53   | 5.220  | PASS |
| Band17 | 5MHz  | 16QAM | 23755 | 25RB#0  | 4.53   | 5.160  | PASS |
| Band17 | 5MHz  | 16QAM | 23790 | 25RB#0  | 4.53   | 5.210  | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 25RB#0  | 4.55   | 5.220  | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 50RB#0  | 9.133  | 10.567 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0  | 9.133  | 10.500 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0  | 9.1    | 10.433 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0  | 9.1    | 10.400 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0  | 9.1    | 10.467 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0  | 9.067  | 10.367 | PASS |
| Band38 | 5MHz  | QPSK  | 37775 | 25RB#0  | 4.49   | 4.960  | PASS |
| Band38 | 5MHz  | QPSK  | 38000 | 25RB#0  | 4.5    | 4.990  | PASS |
| Band38 | 5MHz  | QPSK  | 38225 | 25RB#0  | 4.49   | 4.940  | PASS |
| Band38 | 5MHz  | 16QAM | 37775 | 25RB#0  | 4.48   | 4.960  | PASS |

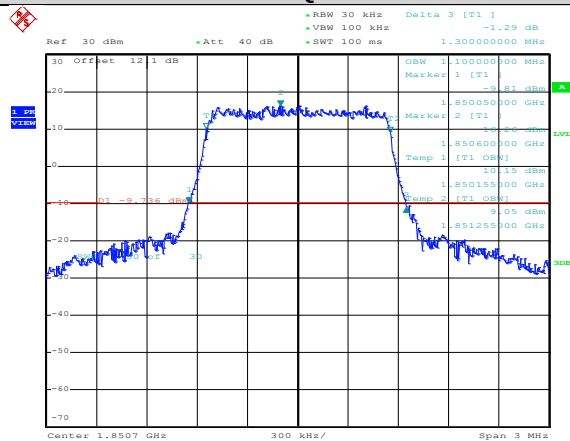
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|--------|-------|-------|-------|---------|--------|--------|------|
| Band38 | 5MHz  | 16QAM | 38000 | 25RB#0  | 4.49   | 5.160  | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 25RB#0  | 4.49   | 5.210  | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 50RB#0  | 9.1    | 10.500 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 50RB#0  | 9.133  | 10.133 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 50RB#0  | 9.067  | 10.133 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0  | 9.1    | 10.167 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0  | 9.1    | 11.300 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0  | 9.067  | 10.467 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 75RB#0  | 13.55  | 15.500 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 75RB#0  | 13.5   | 15.250 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 75RB#0  | 13.5   | 15.450 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0  | 13.55  | 15.650 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0  | 13.6   | 16.050 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0  | 13.55  | 15.850 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | 18     | 19.533 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | 18     | 19.933 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | 18     | 19.467 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 18     | 20.000 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 17.933 | 19.667 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 18     | 19.600 | PASS |
| Band41 | 5MHz  | QPSK  | 40065 | 25RB#0  | 4.49   | 5.440  | PASS |
| Band41 | 5MHz  | QPSK  | 40640 | 25RB#0  | 4.51   | 4.950  | PASS |
| Band41 | 5MHz  | QPSK  | 41215 | 25RB#0  | 4.51   | 5.220  | PASS |
| Band41 | 5MHz  | 16QAM | 40065 | 25RB#0  | 4.49   | 4.990  | PASS |
| Band41 | 5MHz  | 16QAM | 40640 | 25RB#0  | 4.49   | 5.090  | PASS |
| Band41 | 5MHz  | 16QAM | 41215 | 25RB#0  | 4.5    | 5.500  | PASS |
| Band41 | 10MHz | QPSK  | 40090 | 50RB#0  | 9.133  | 11.600 | PASS |
| Band41 | 10MHz | QPSK  | 40640 | 50RB#0  | 9.1    | 10.267 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 50RB#0  | 9.133  | 11.267 | PASS |
| Band41 | 10MHz | 16QAM | 40090 | 50RB#0  | 9.133  | 11.733 | PASS |
| Band41 | 10MHz | 16QAM | 40640 | 50RB#0  | 9.1    | 10.667 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 50RB#0  | 9.133  | 11.067 | PASS |
| Band41 | 15MHz | QPSK  | 40115 | 75RB#0  | 13.55  | 15.600 | PASS |
| Band41 | 15MHz | QPSK  | 40640 | 75RB#0  | 13.5   | 15.600 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 75RB#0  | 13.55  | 15.700 | PASS |
| Band41 | 15MHz | 16QAM | 40115 | 75RB#0  | 13.55  | 16.650 | PASS |
| Band41 | 15MHz | 16QAM | 40640 | 75RB#0  | 13.55  | 16.200 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 75RB#0  | 13.5   | 15.650 | PASS |
| Band41 | 20MHz | QPSK  | 40140 | 100RB#0 | 17.933 | 19.400 | PASS |
| Band41 | 20MHz | QPSK  | 40640 | 100RB#0 | 18     | 19.800 | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 100RB#0 | 18     | 19.533 | PASS |
| Band41 | 20MHz | 16QAM | 40140 | 100RB#0 | 17.933 | 19.667 | PASS |
| Band41 | 20MHz | 16QAM | 40640 | 100RB#0 | 17.933 | 19.400 | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 100RB#0 | 17.933 | 19.733 | PASS |

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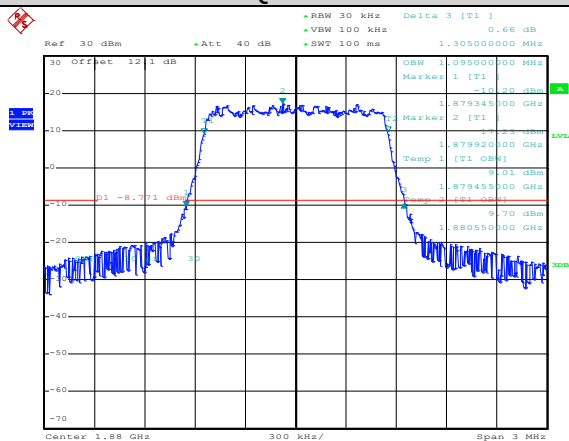
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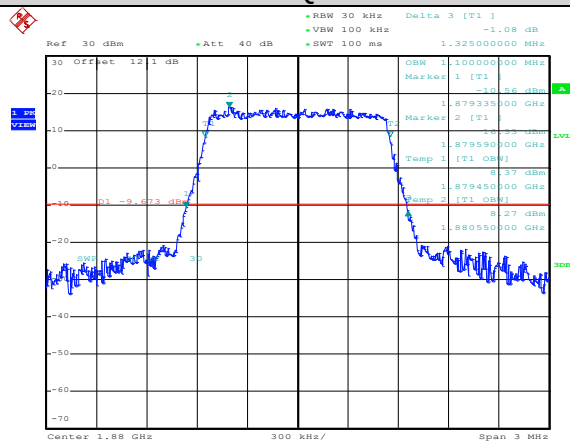
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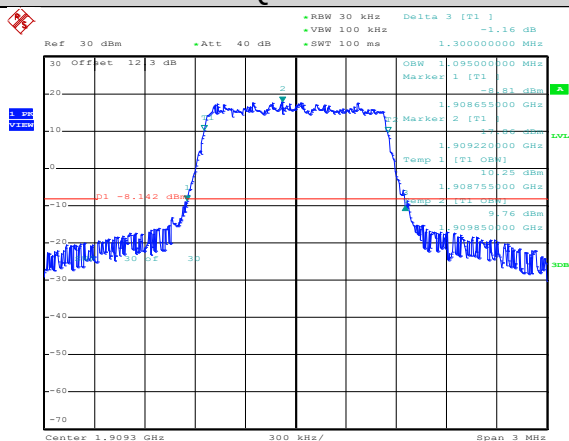
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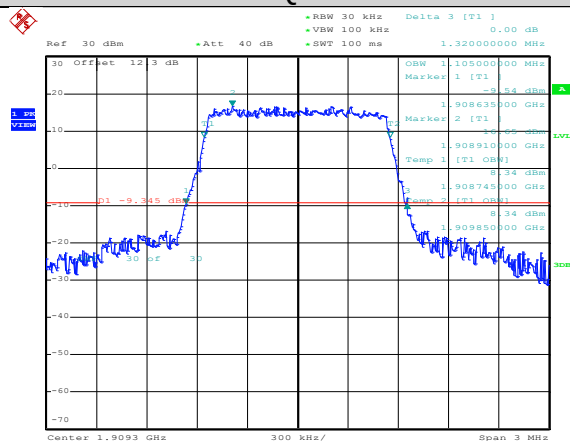
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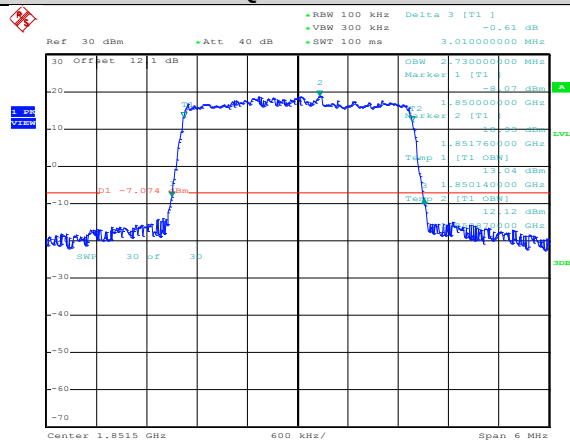
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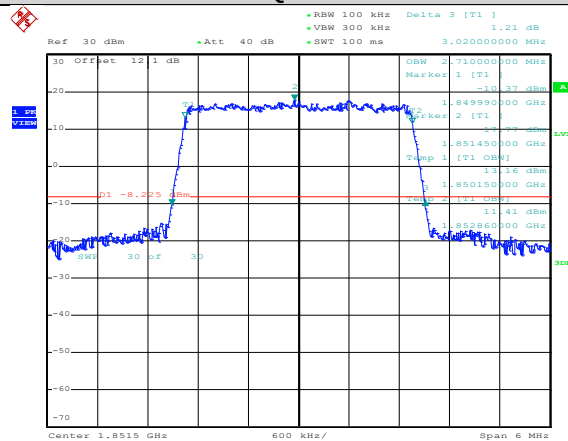
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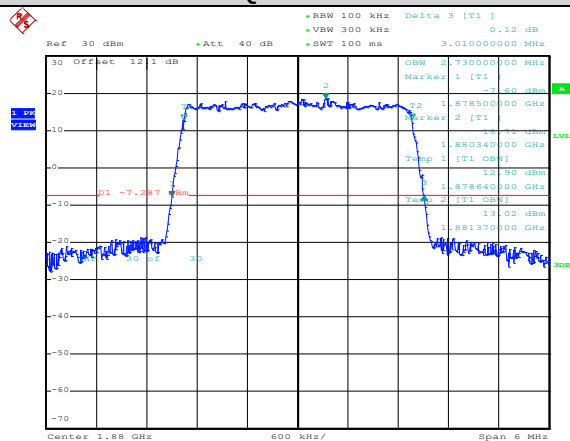
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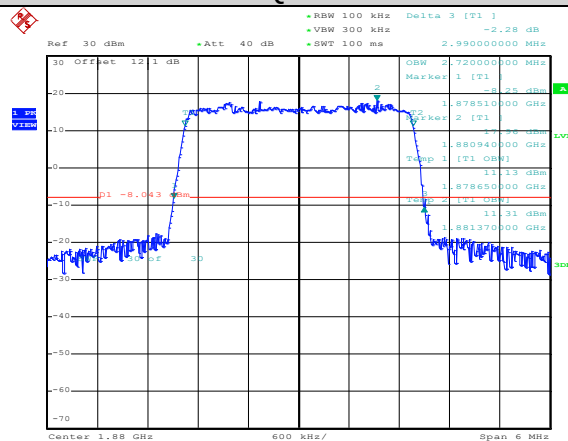
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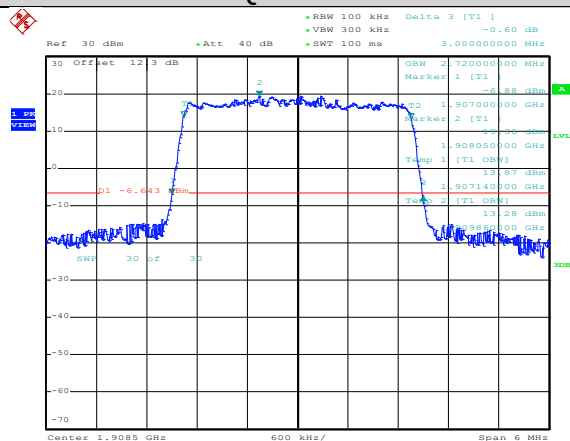
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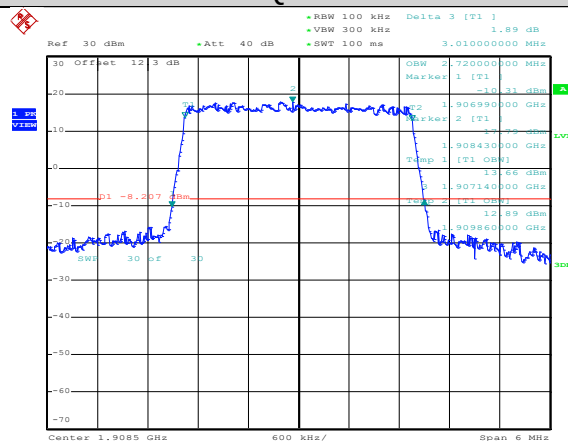
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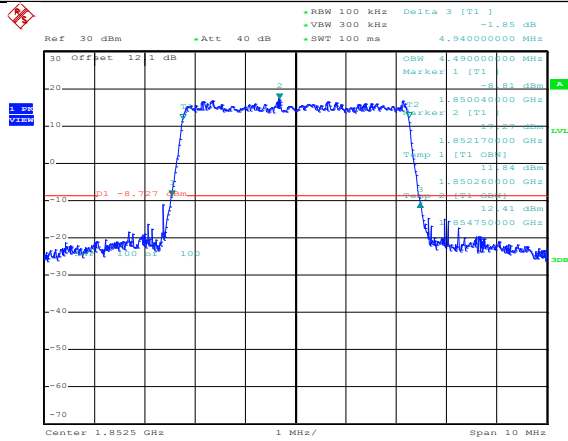
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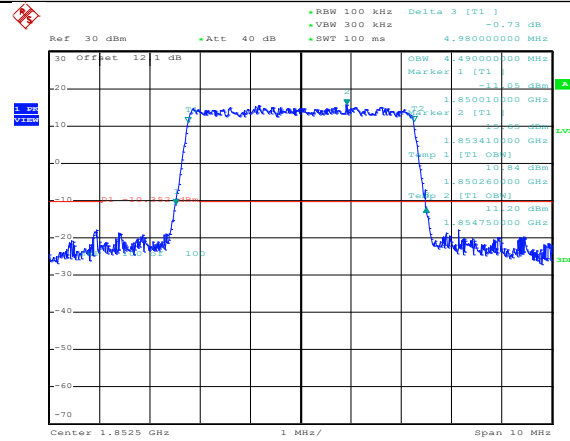
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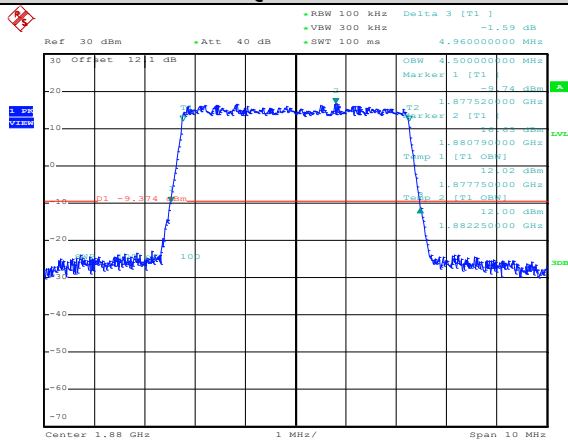
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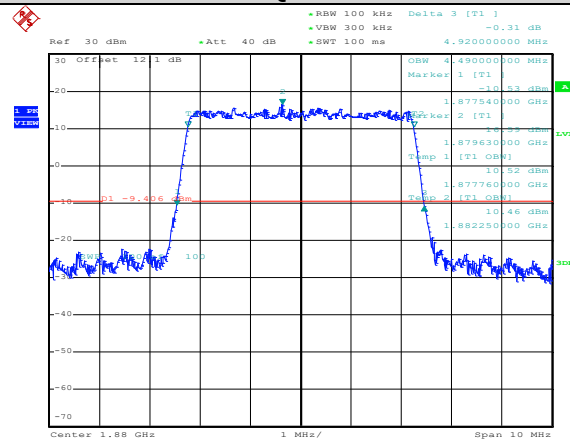
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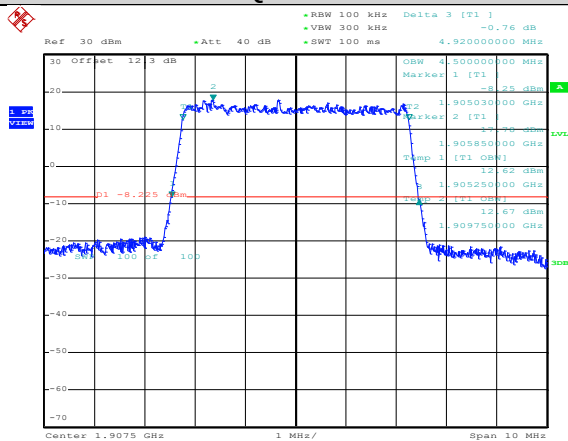
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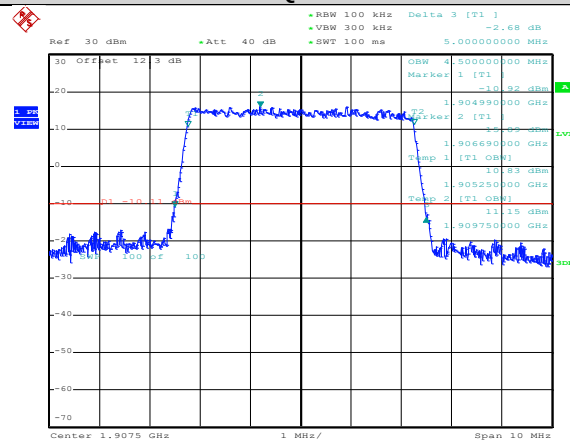
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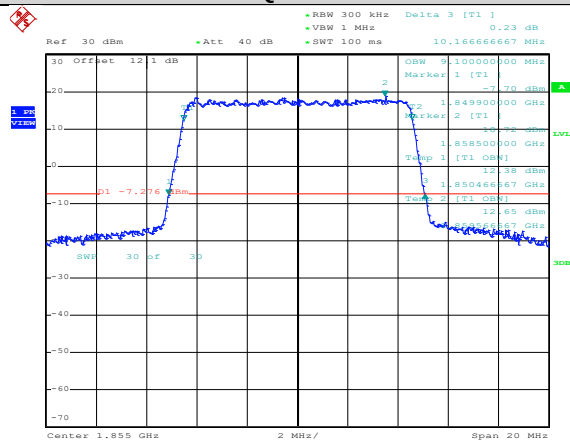
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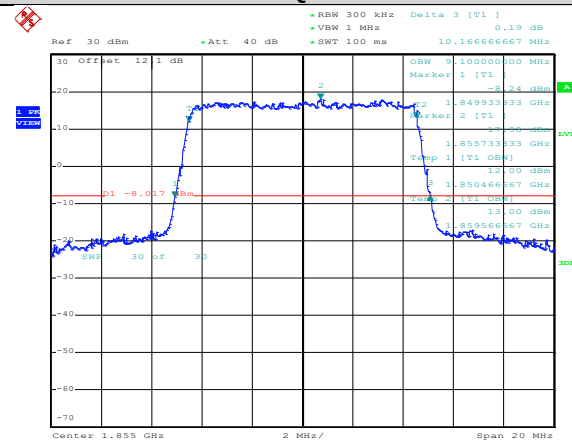
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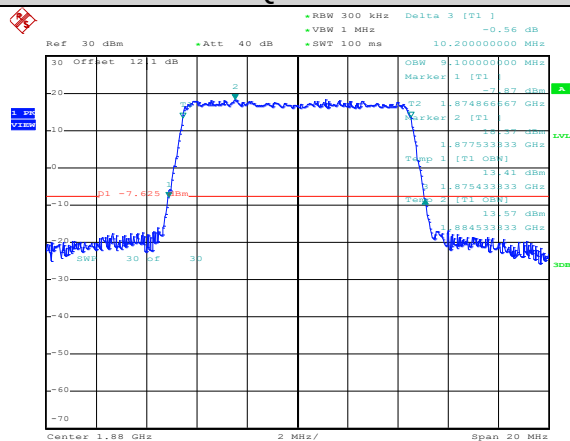
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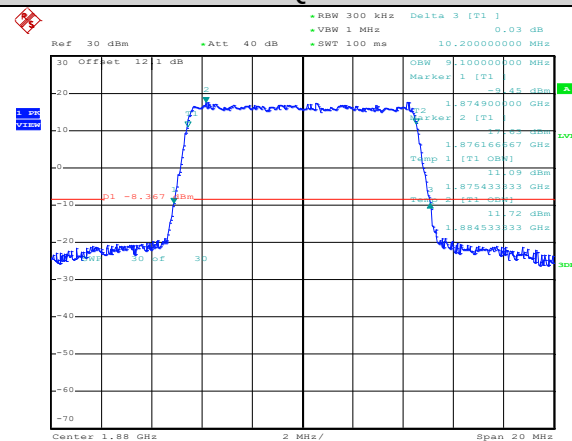
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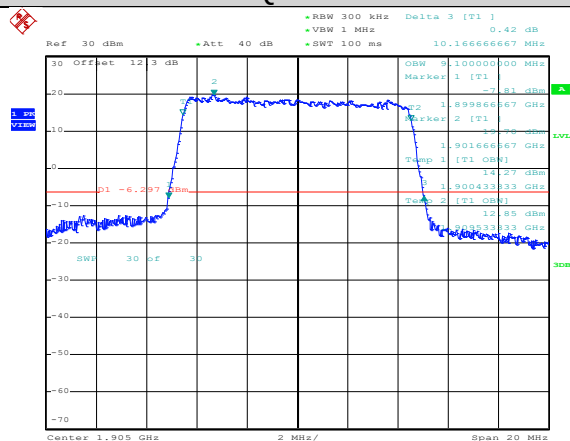
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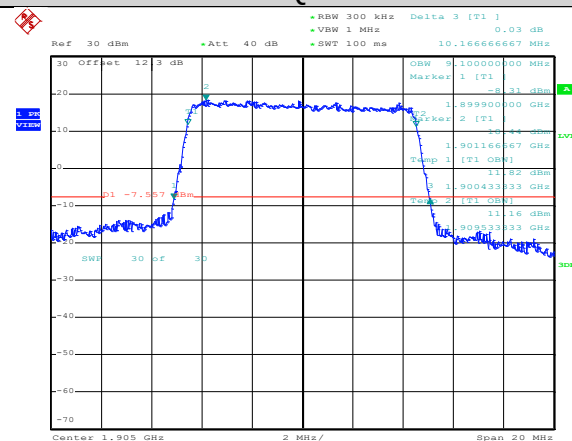
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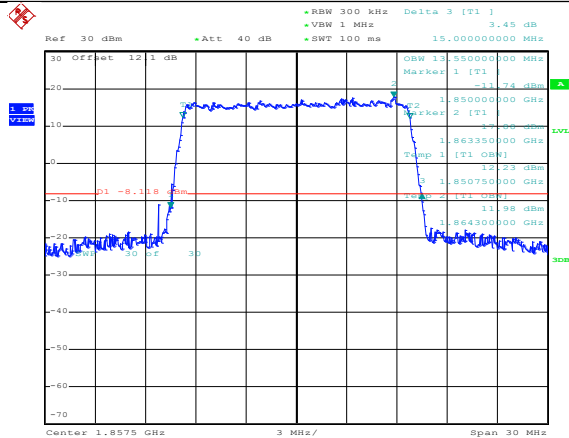
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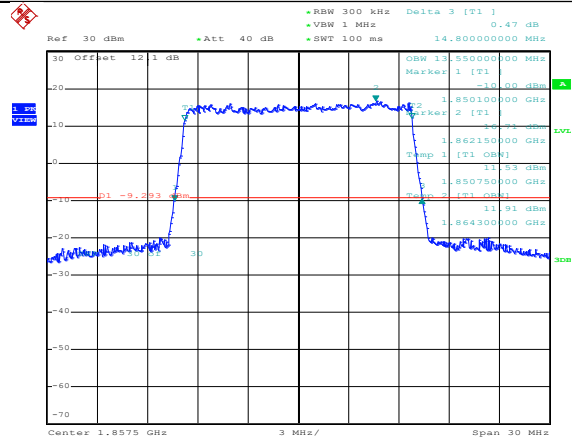
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### Band2-15MHz-QPSK-18675-75RB#0-13.55



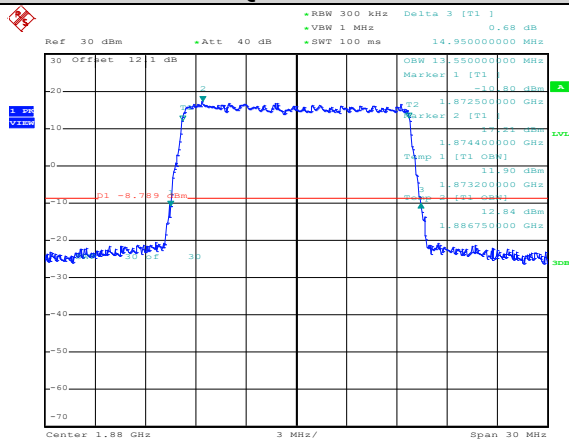
Date: 15.MAR.2021 16:51:21

### Band2-15MHz-16QAM-18675-75RB#0-13.55



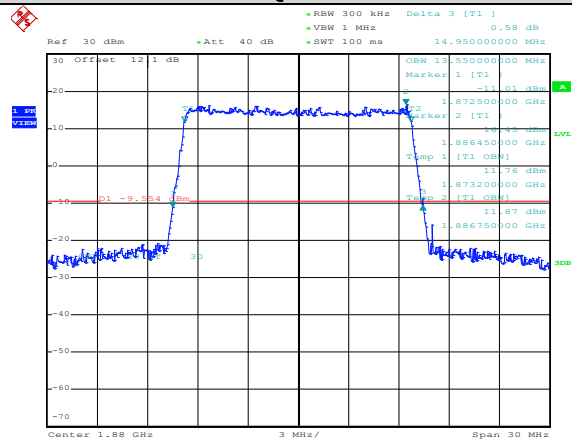
Date: 15.MAR.2021 16:51:32

### Band2-15MHz-QPSK-18900-75RB#0-13.55



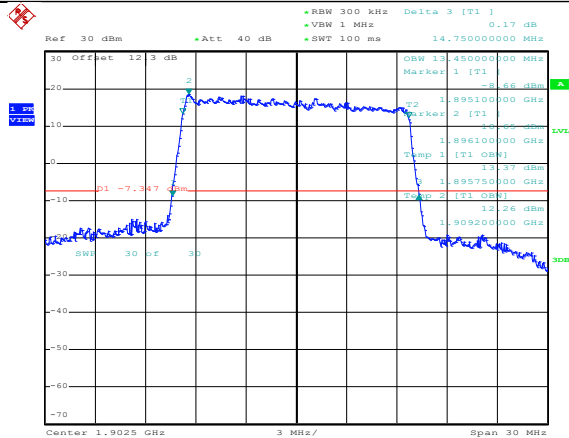
Date: 15.MAR.2021 16:51:46

### Band2-15MHz-16QAM-18900-75RB#0-13.55



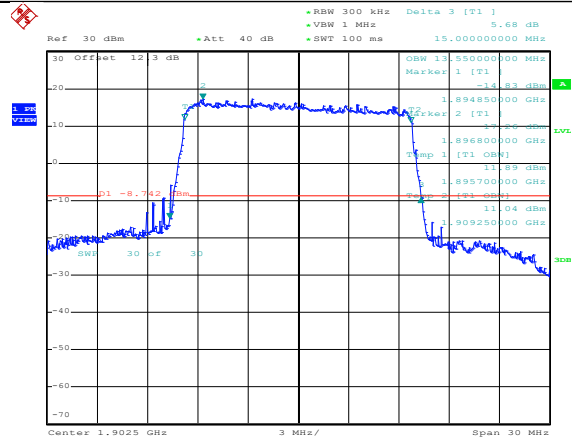
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### Band2-15MHz-QPSK-19125-75RB#0-13.45



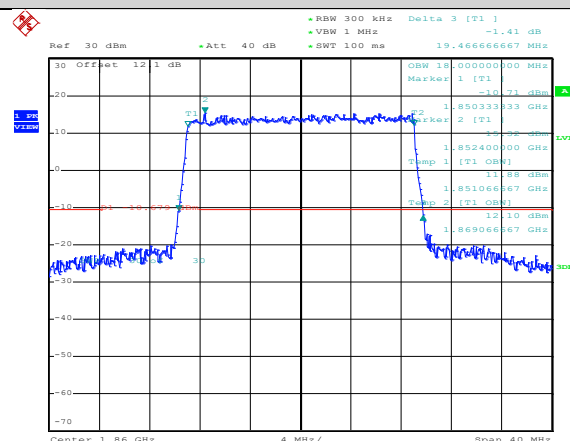
Date: 15.MAR.2021 16:52:11

### Band2-15MHz-16QAM-19125-75RB#0-13.55



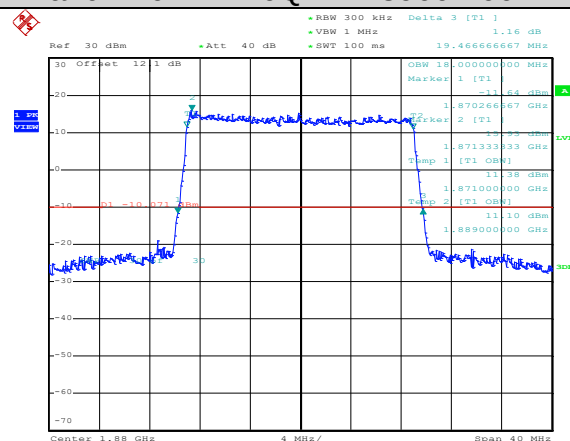
Date: 15.MAR.2021 16:52:22

Band2-20MHz-16QAM-18700-100RB#0-18



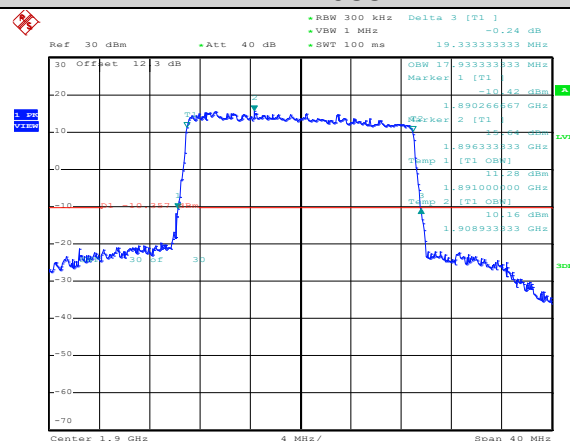
Date: 15.MAR.2021 16:53:29

Band2-20MHz-16OAM-18900-100RB#0-18



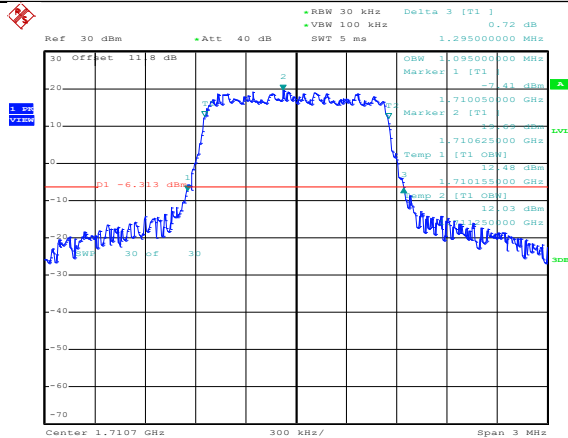
Date: 15.MAR.2021 16:53:54

Band2-20MHz-16QAM-19100-100RB#0-  
17.933



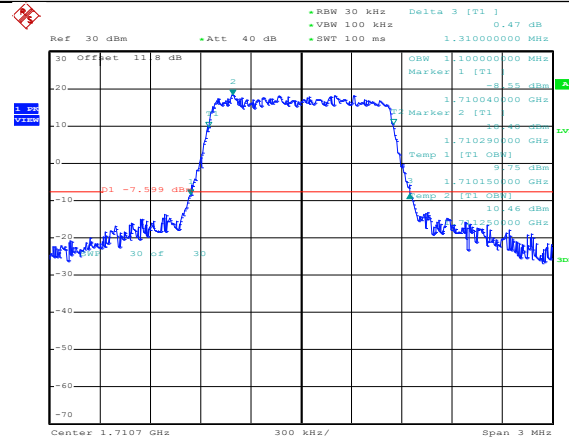
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### Band4-1.4MHz-QPSK-19957-6RB#0-1.095



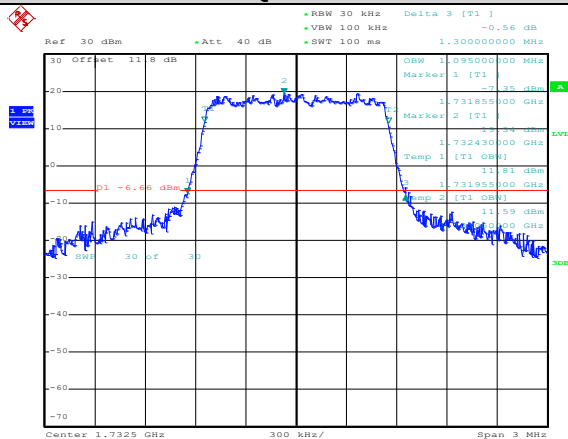
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### Band4-1.4MHz-16QAM-19957-6RB#0-1.1



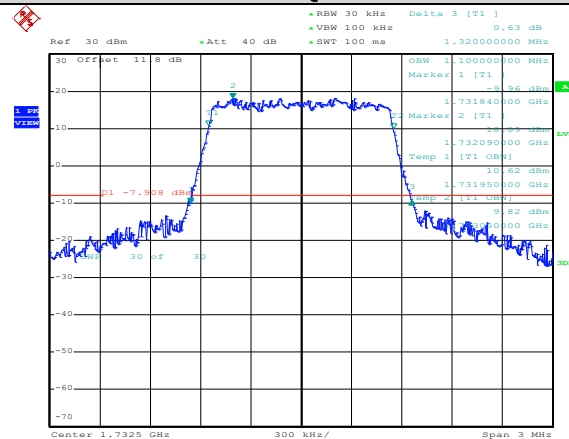
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### Band4-1.4MHz-QPSK-20175-6RB#0-1.095



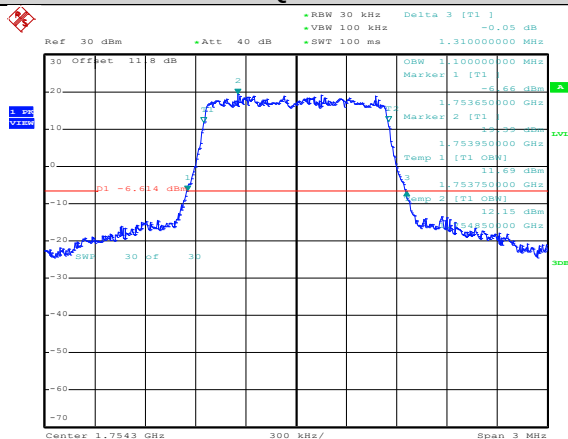
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### Band4-1.4MHz-16QAM-20175-6RB#0-1.1



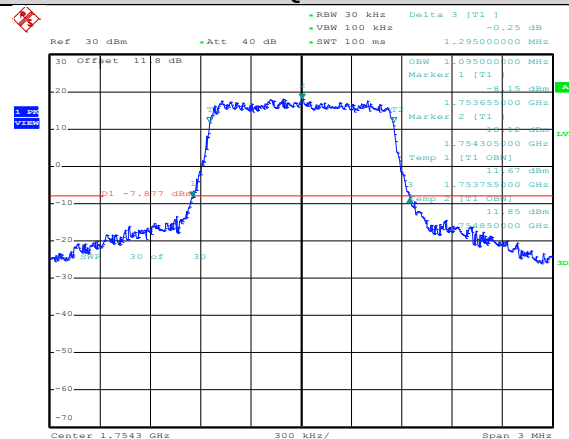
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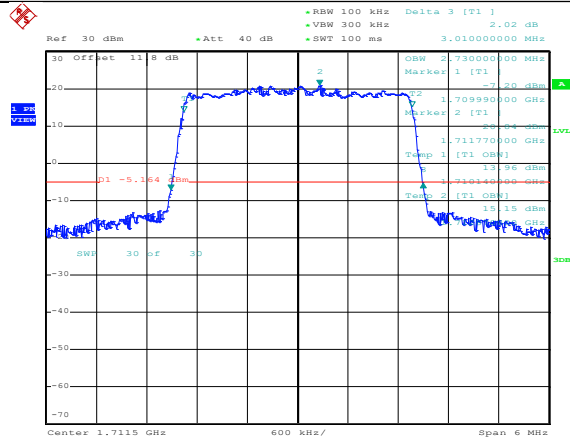
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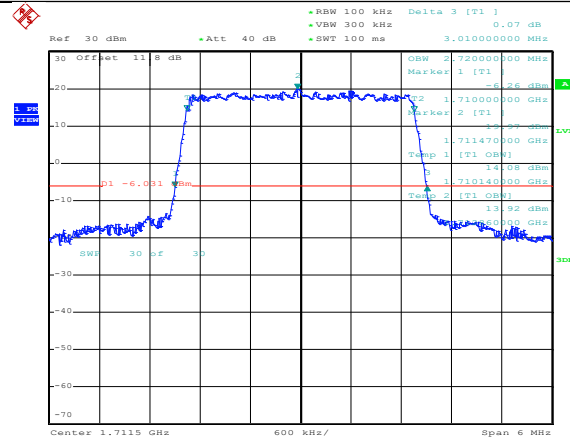
Date: 15.MAR.2021 16:56:31

### Band4-3MHz-QPSK-19965-15RB#0-2.73



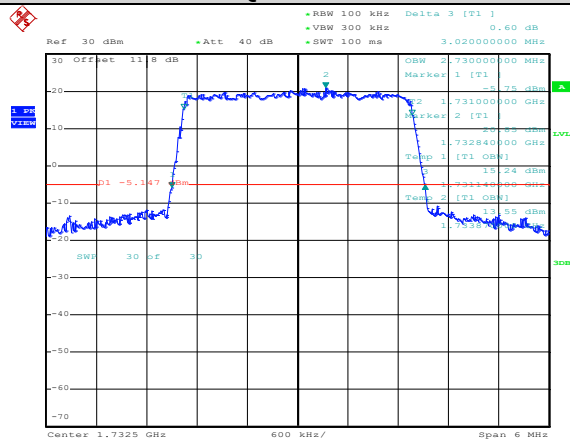
Date: 15.MAR.2021 16:57:12

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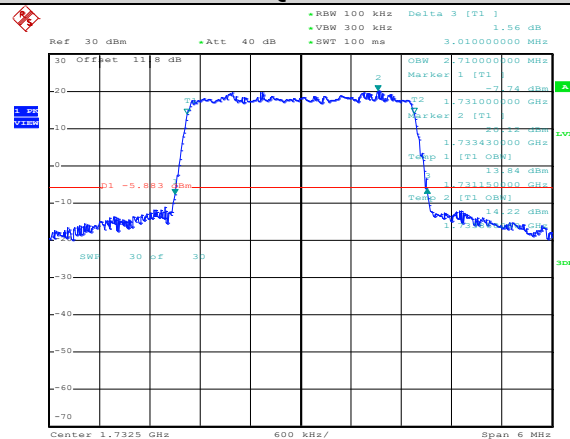
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### Band4-3MHz-QPSK-20175-15RB#0-2.73



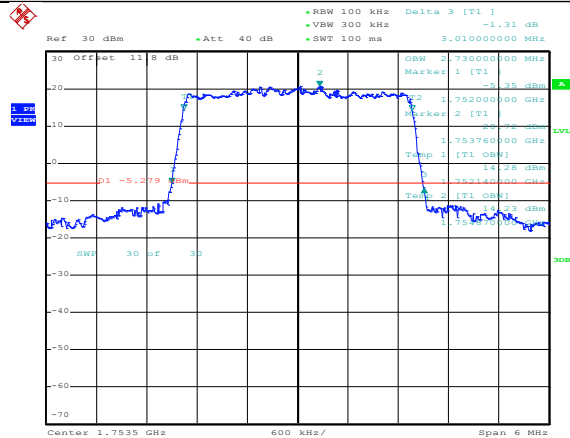
Date: 15.MAR.2021 16:57:37

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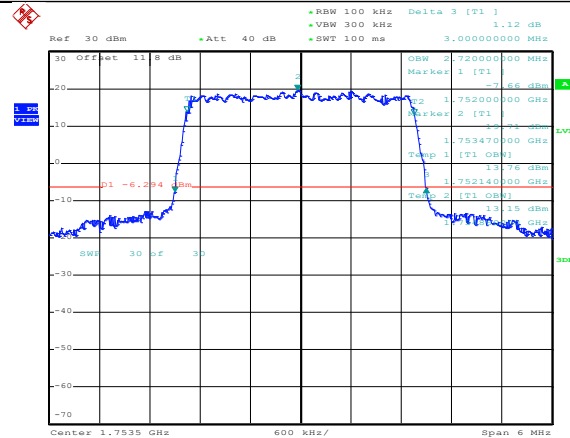
Date: 15.MAR.2021 16:57:48

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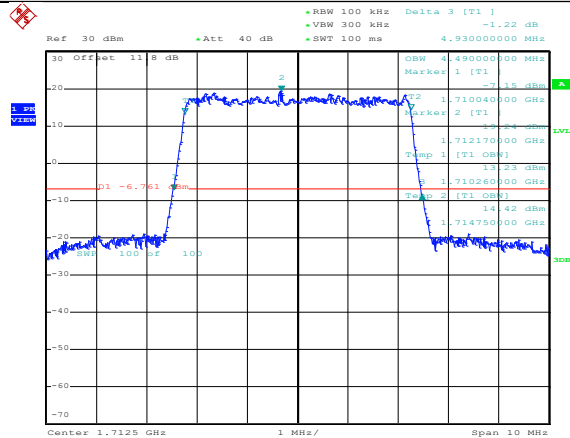
Date: 15.MAR.2021 16:58:01

### Band4-3MHz-16QAM-20385-15RB#0-2.72



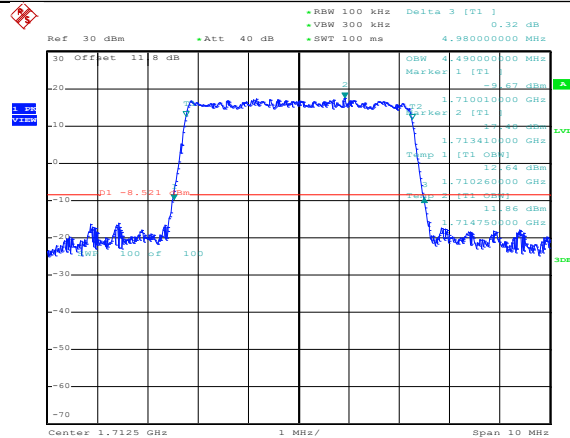
Date: 15.MAR.2021 16:58:12

### Band4-5MHz-QPSK-19975-25RB#0-4.49



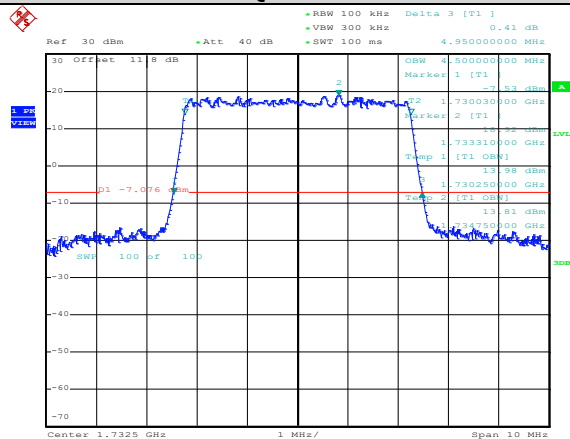
Date: 15.MAR.2021 16:59:00

### Band4-5MHz-16QAM-19975-25RB#0-4.49



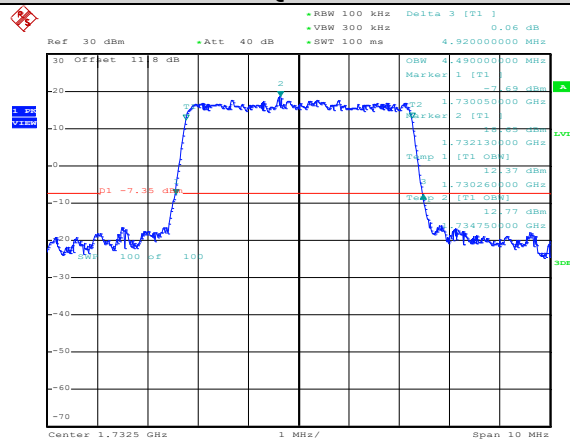
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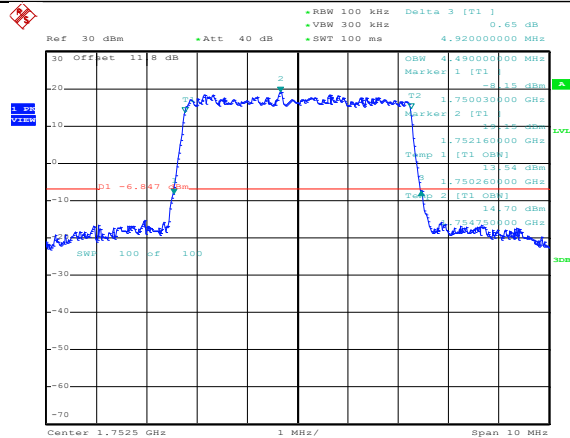
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### Band4-5MHz-16QAM-20175-25RB#0-4.49



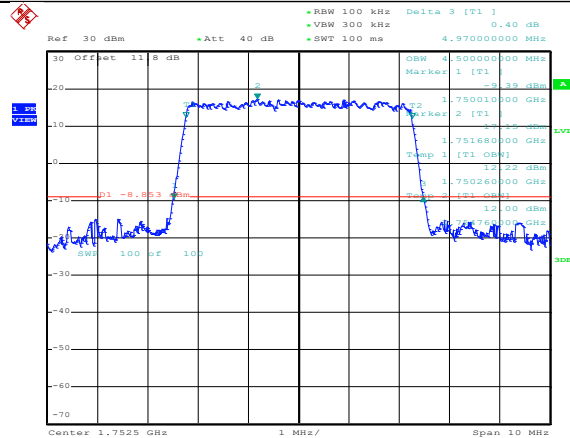
Date: 15.MAR.2021 16:59:57

### Band4-5MHz-QPSK-20375-25RB#0-4.49



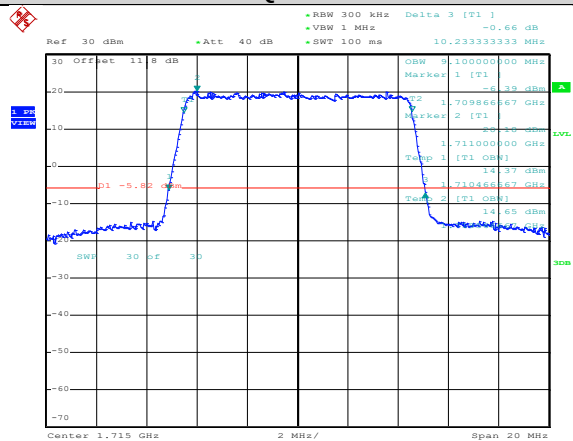
Date: 15.MAR.2021 17:00:18

### Band4-5MHz-16QAM-20375-25RB#0-4.5



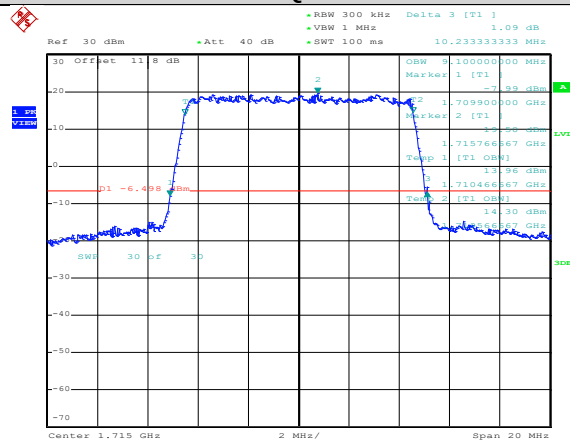
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Band4-10MHz-QPSK-20000-50RB#0-9.1



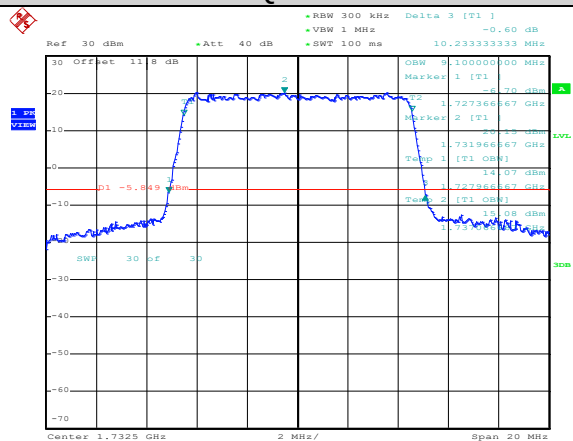
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Band4-10MHz-16QAM-20000-50RB#0-9.1



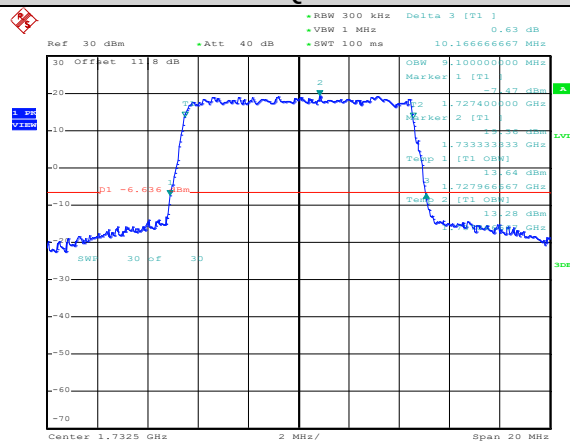
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Band4-10MHz-QPSK-20175-50RB#0-9.1



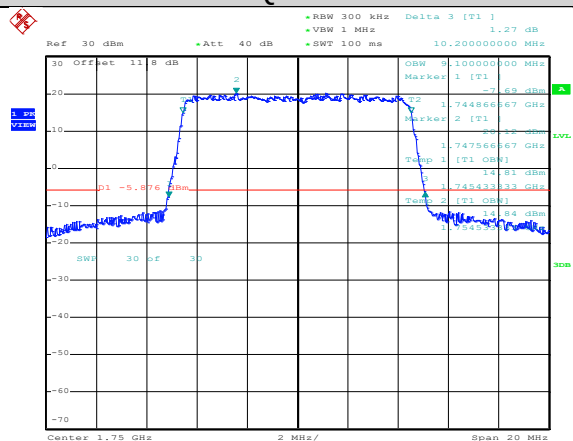
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Band4-10MHz-16QAM-20175-50RB#0-9.1



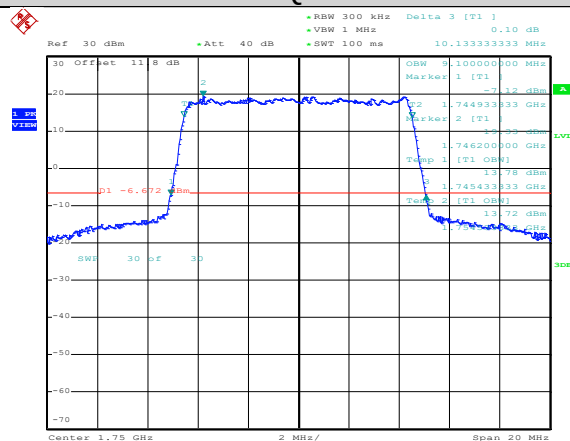
Date: 15.MAR.2021 17:01:52

Band4-10MHz-QPSK-20350-50RB#0-9.1



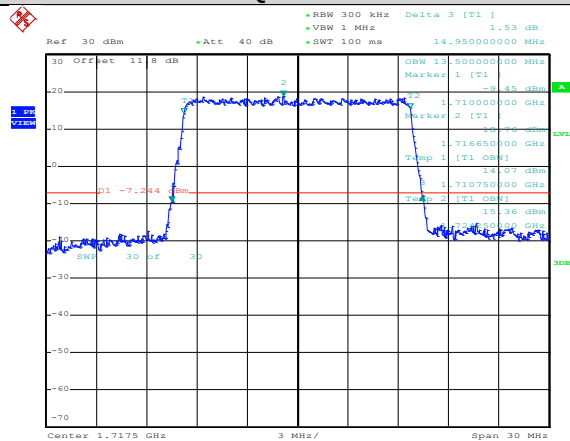
Date: 15.MAR.2021 17:02:06

Band4-10MHz-16QAM-20350-50RB#0-9.1



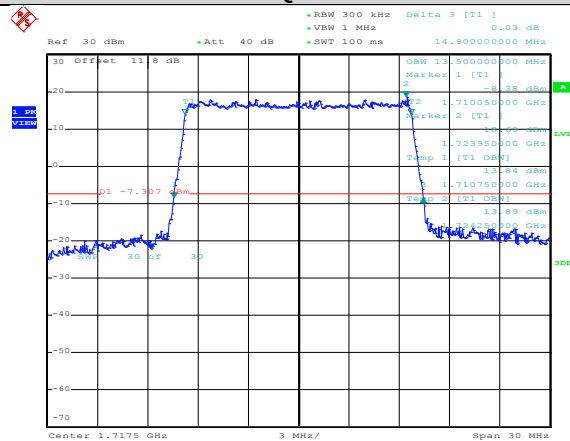
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### Band4-15MHz-QPSK-20025-75RB#0-13.5



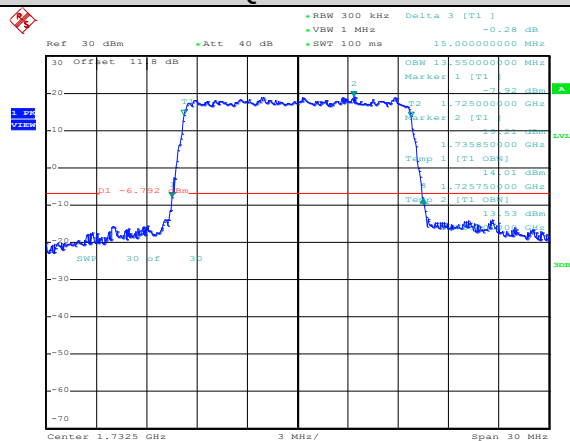
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### Band4-15MHz-16QAM-20025-75RB#0-13.5



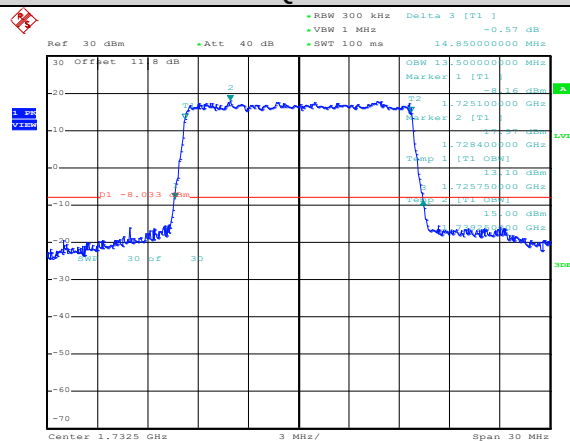
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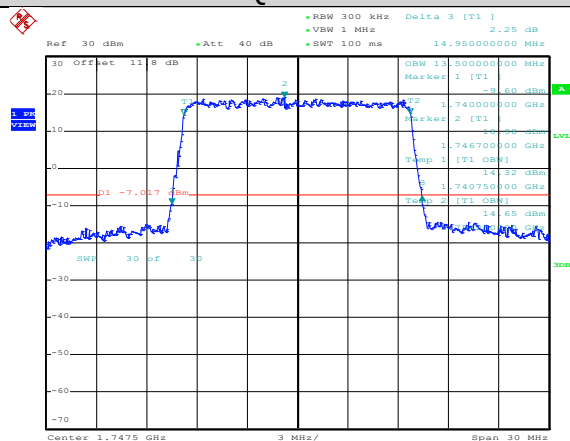
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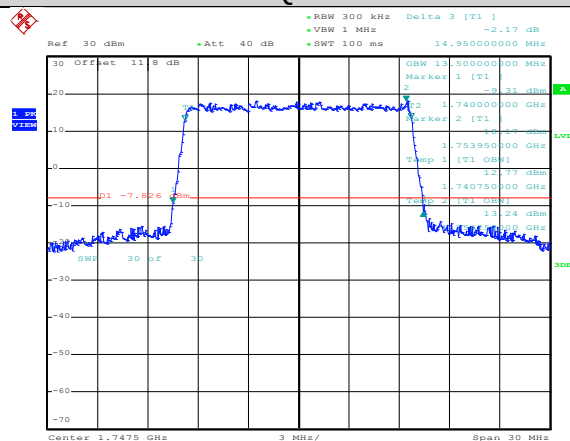
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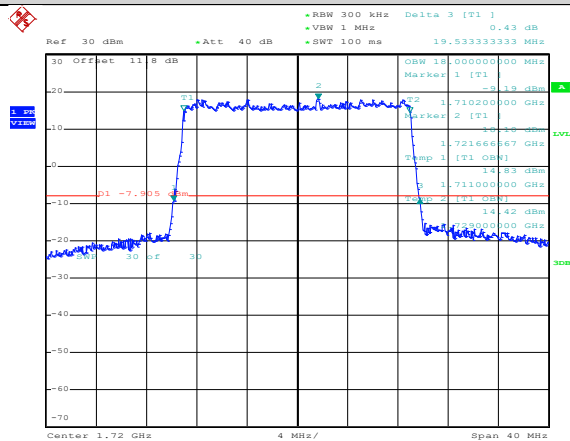
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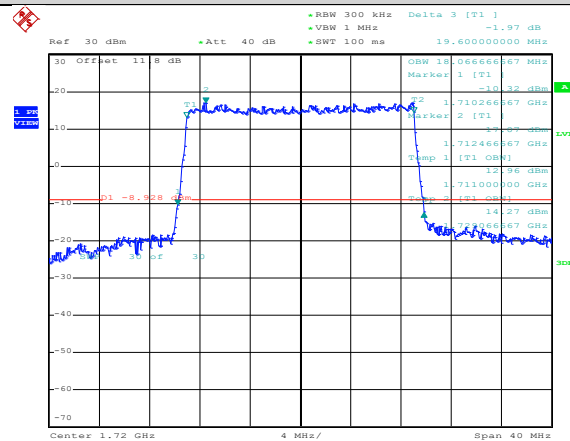
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### Band4-20MHz-QPSK-20050-100RB#0-18



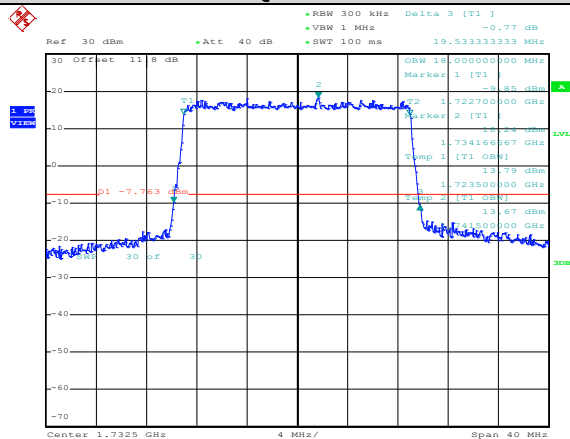
Date: 15.MAR.2021 17:04:45

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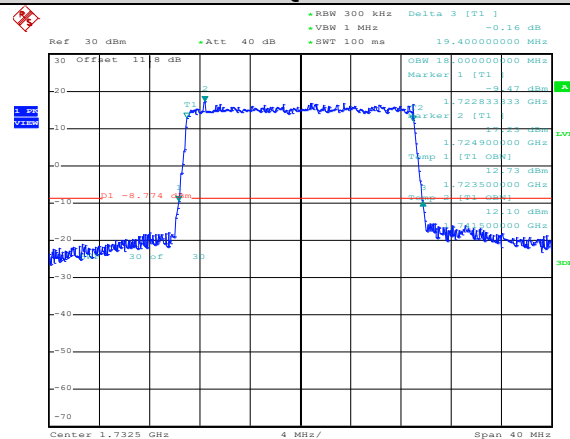
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### Band4-20MHz-QPSK-20175-100RB#0-18



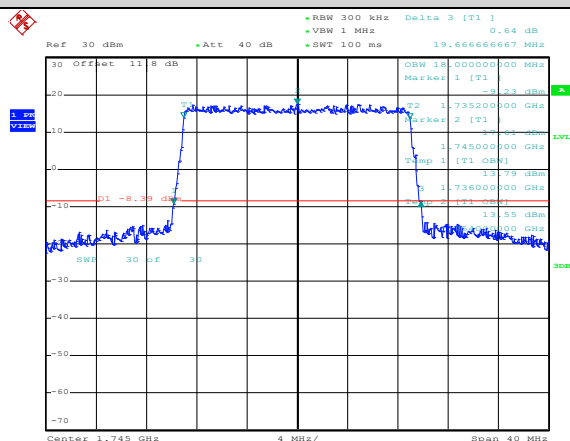
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### Band4-20MHz-16QAM-20175-100RB#0-18



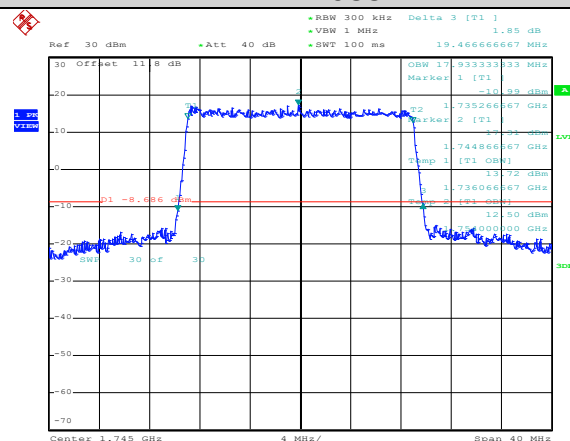
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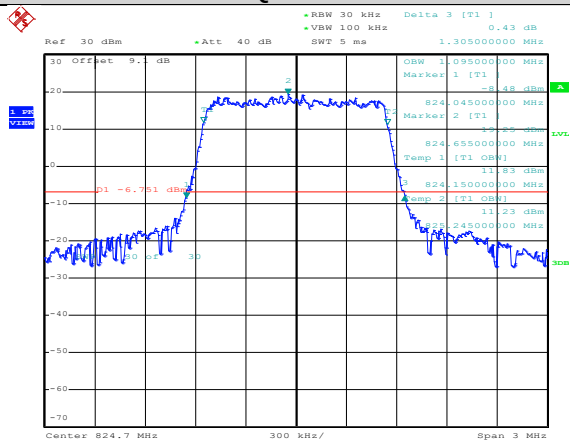
Date: 15.MAR.2021 17:05:34

### Band4-20MHz-16QAM-20300-100RB#0-17.933



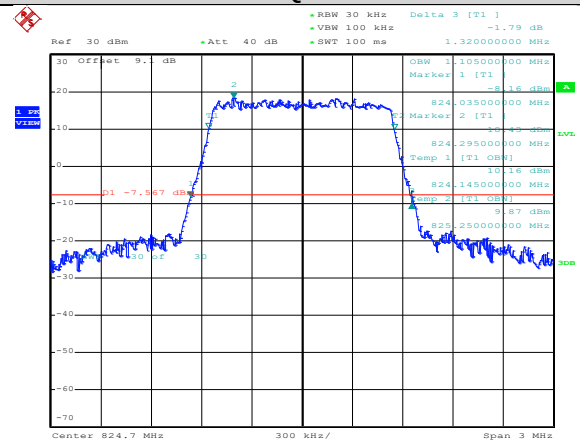
Date: 15.MAR.2021 17:05:44

Band5-1.4MHz-QPSK-20407-6RB#0-1.095



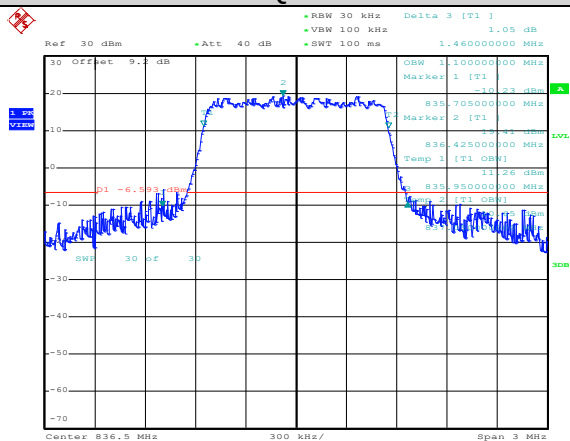
Date: 15.MAR.2021 17:06:51

Band5-1.4MHz-16QAM-20407-6RB#0-1.105



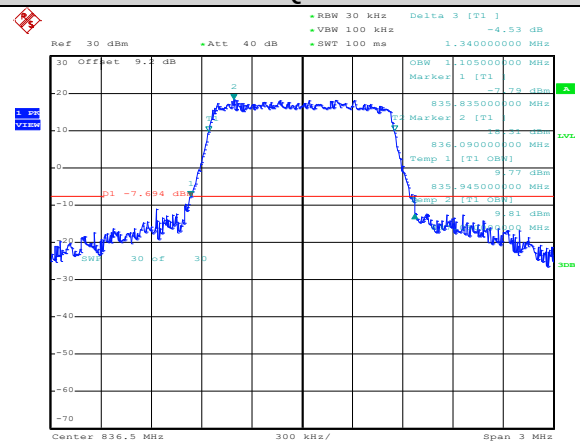
Date: 15.MAR.2021 17:07:01

Band5-1.4MHz-QPSK-20525-6RB#0-1.1



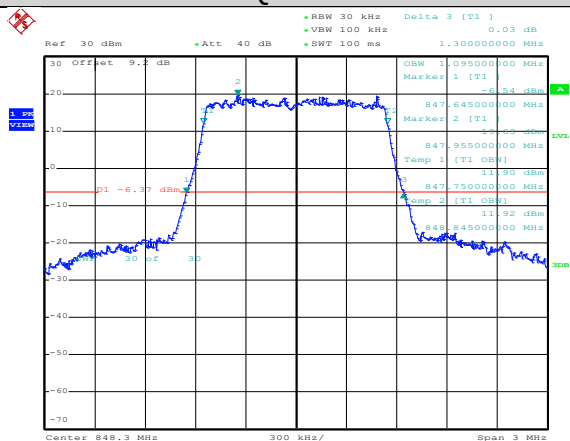
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Band5-1.4MHz-16QAM-20525-6RB#0-1.105



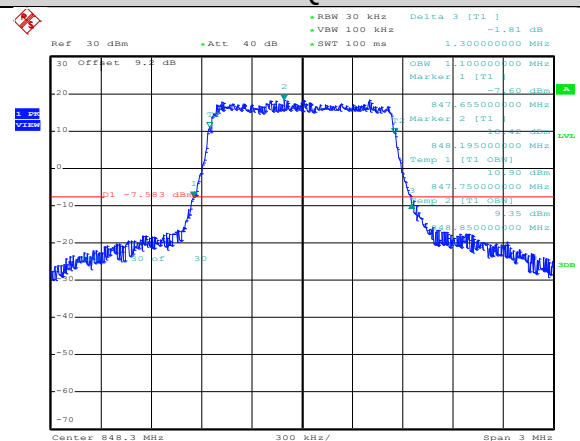
Date: 15.MAR.2021 17:07:26

Band5-1.4MHz-QPSK-20643-6RB#0-1.095



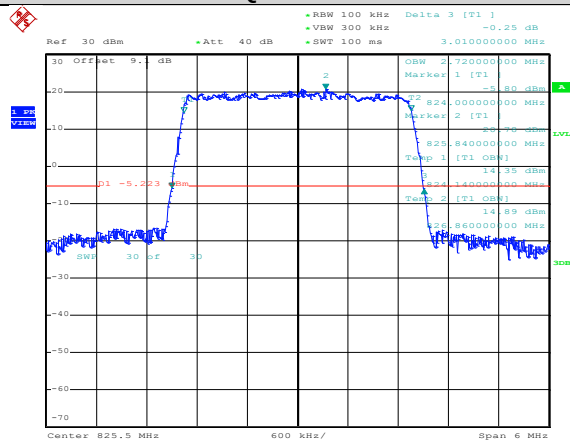
Date: 15.MAR.2021 17:07:40

Band5-1.4MHz-16QAM-20643-6RB#0-1.1



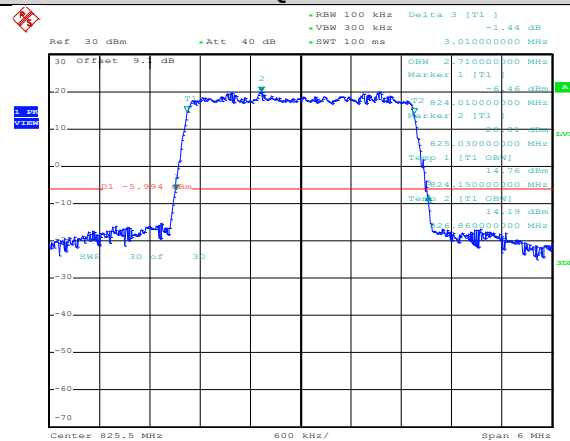
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### Band5-3MHz-QPSK-20415-15RB#0-2.72



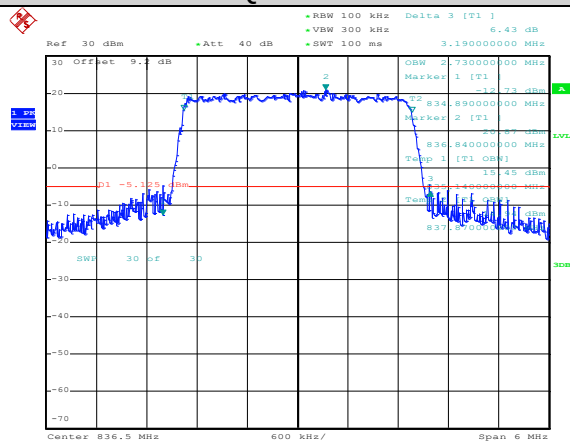
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### Band5-3MHz-16QAM-20415-15RB#0-2.71



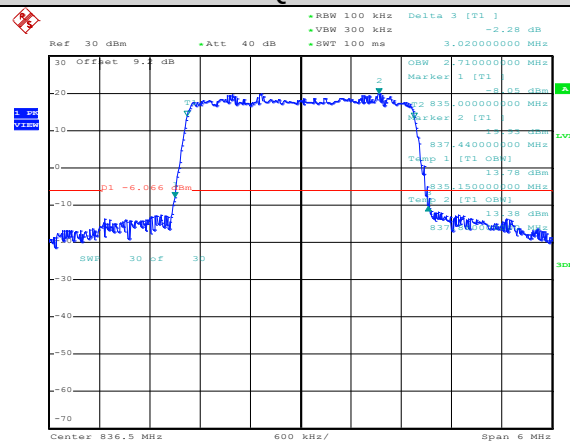
Date: 15.MAR.2021 17:08:54

### Band5-3MHz-QPSK-20525-15RB#0-2.73



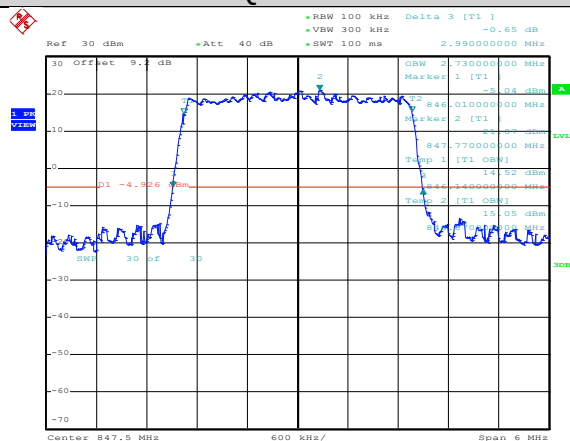
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### Band5-3MHz-16QAM-20525-15RB#0-2.71



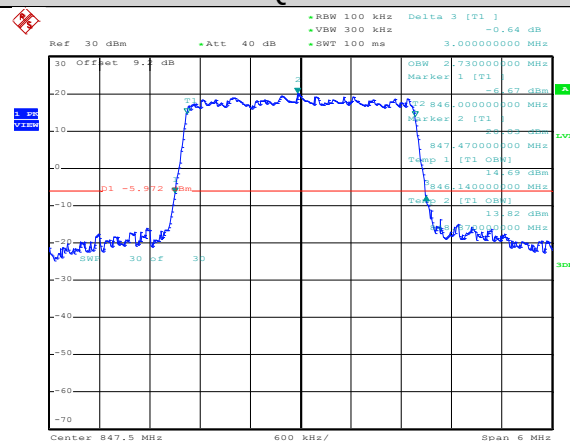
Date: 15.MAR.2021 17:09:19

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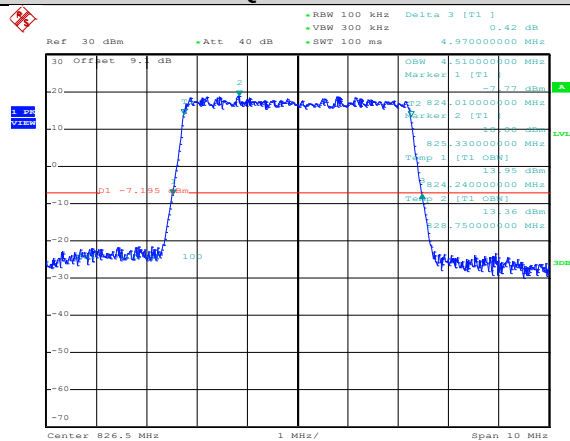
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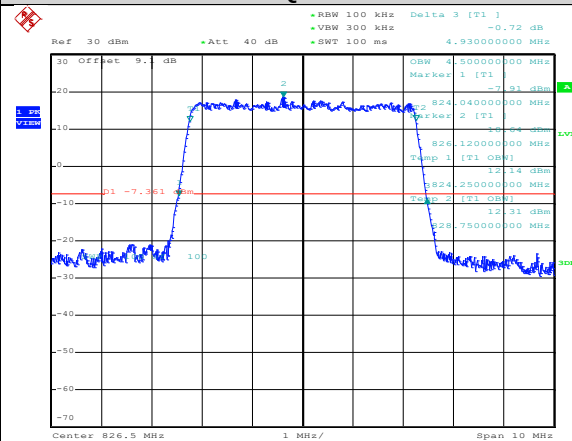
Date: 15.MAR.2021 17:09:43

### Band5-5MHz-QPSK-20425-25RB#0-4.51



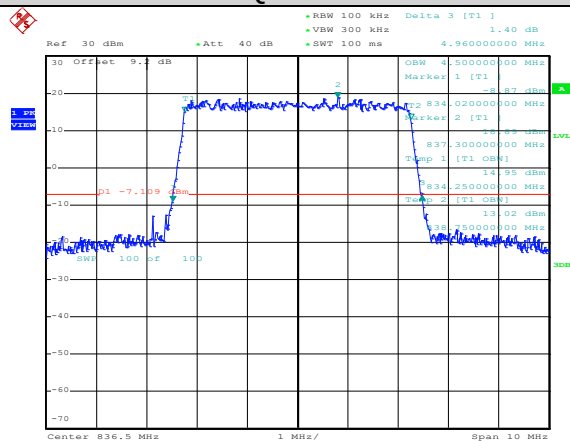
Date: 15.MAR.2021 17:10:46

### Band5-5MHz-16QAM-20425-25RB#0-4.5



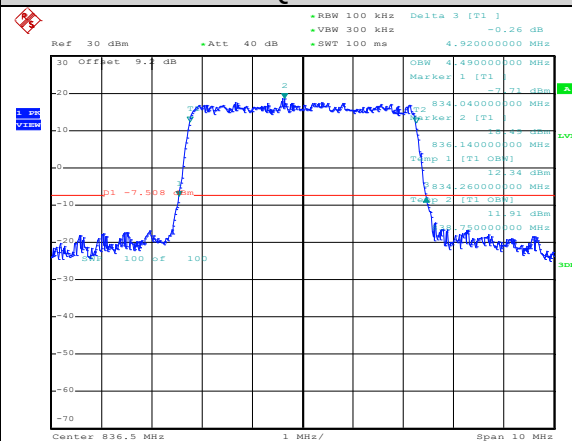
Date: 15.MAR.2021 17:11:04

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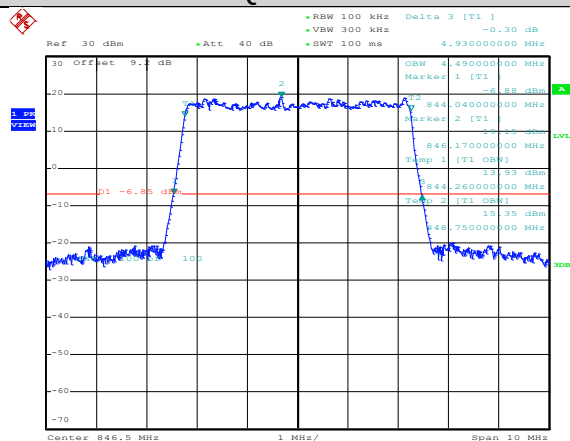
Date: 15.MAR.2021 17:11:26

### Band5-5MHz-16QAM-20525-25RB#0-4.49



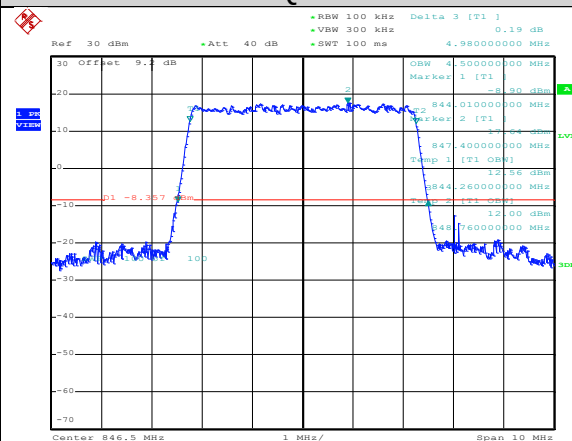
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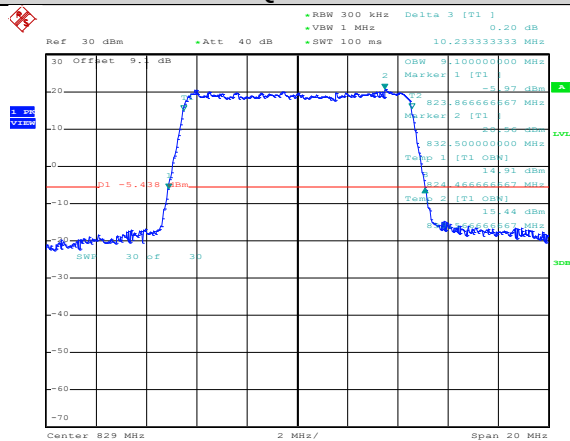
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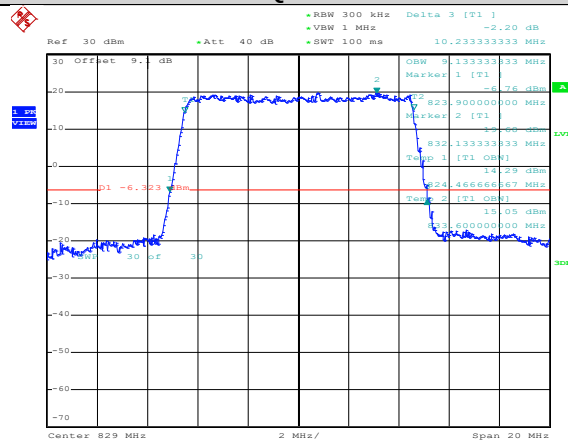
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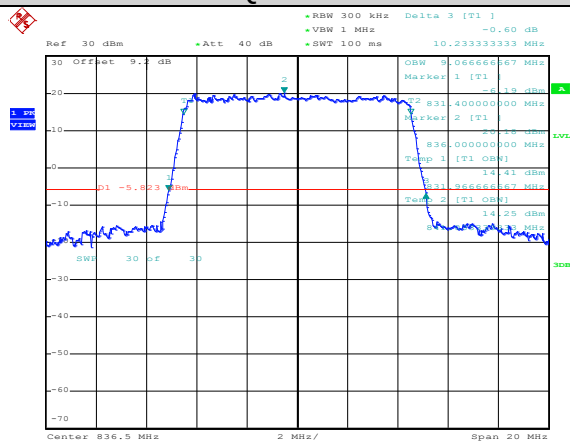
Date: 15.MAR.2021 17:13:21

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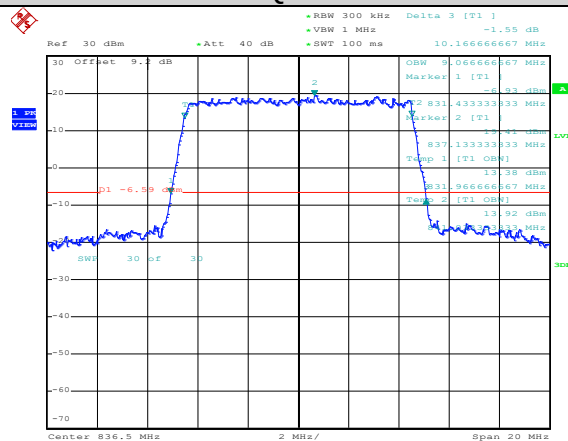
Date: 15.MAR.2021 17:13:32

### Band5-10MHz-QPSK-20525-50RB#0-9.067



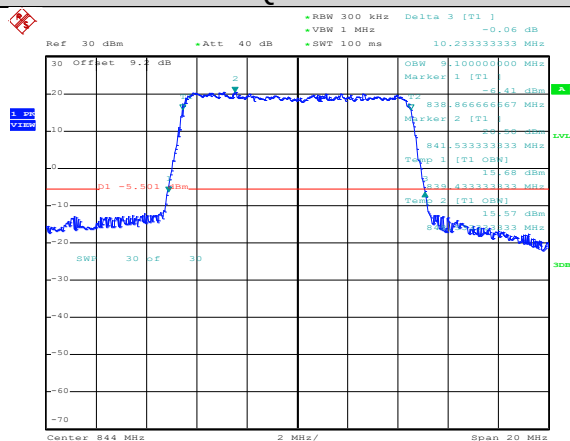
Date: 15.MAR.2021 17:13:46

### Band5-10MHz-16QAM-20525-50RB#0-9.067



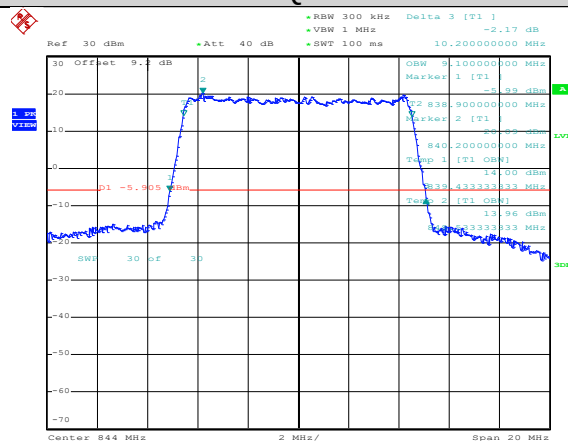
Date: 15.MAR.2021 17:13:57

### Band5-10MHz-QPSK-20600-50RB#0-9.1



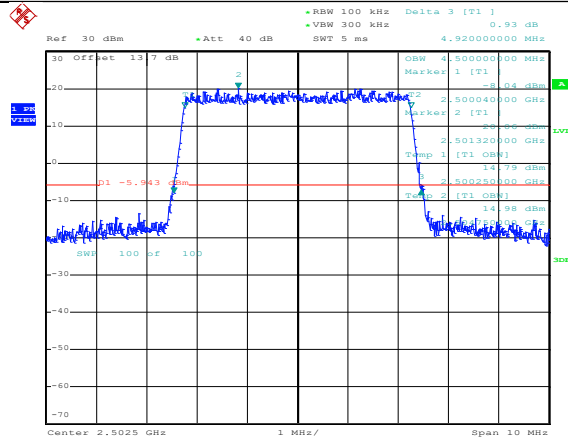
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### Band5-10MHz-16QAM-20600-50RB#0-9.1



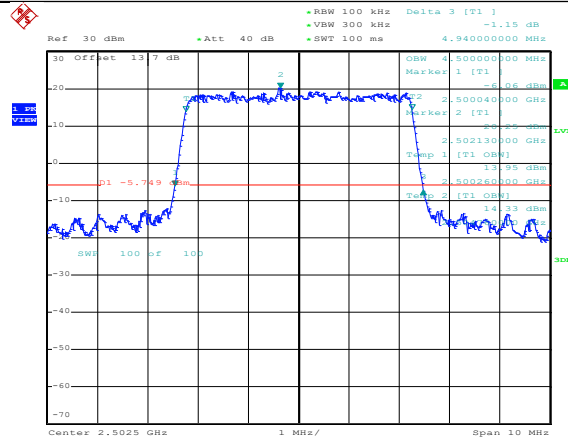
Date: 15.MAR.2021 17:14:22

### Band7-5MHz-QPSK-20775-25RB#0-4.5



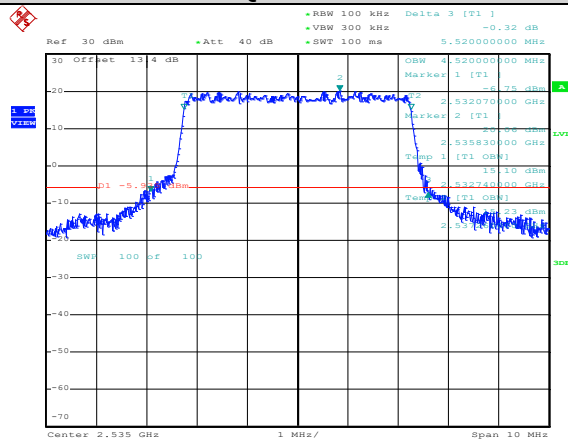
Date: 15.MAR.2021 17:15:07

### Band7-5MHz-16QAM-20775-25RB#0-4.5



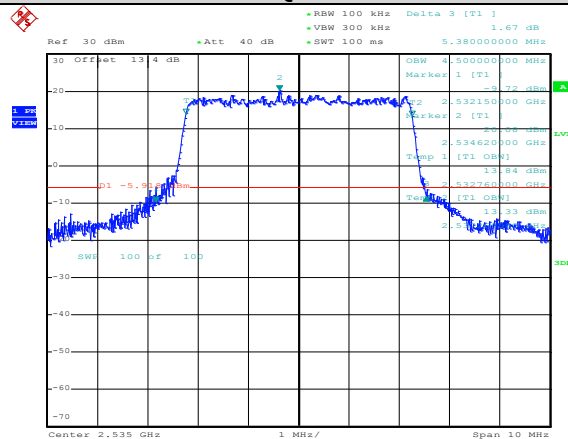
Date: 15.MAR.2021 17:15:25

### Band7-5MHz-QPSK-21100-25RB#0-4.52



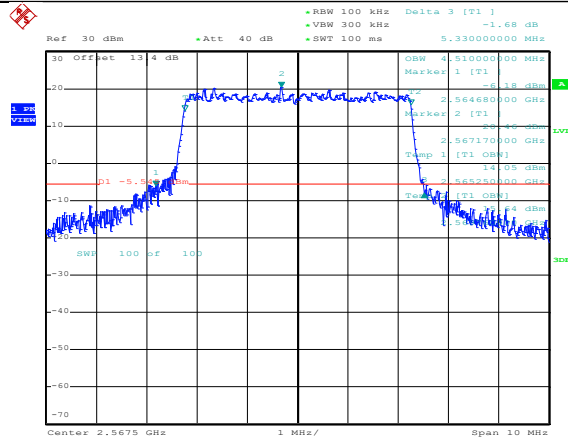
Date: 15.MAR.2021 17:15:46

### Band7-5MHz-16QAM-21100-25RB#0-4.5



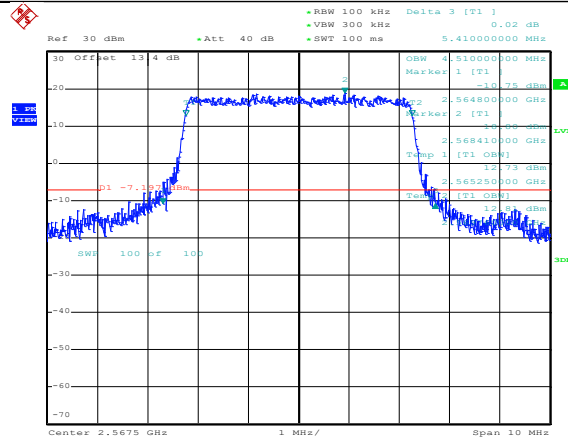
Date: 15.MAR.2021 17:16:04

### Band7-5MHz-QPSK-21425-25RB#0-4.51



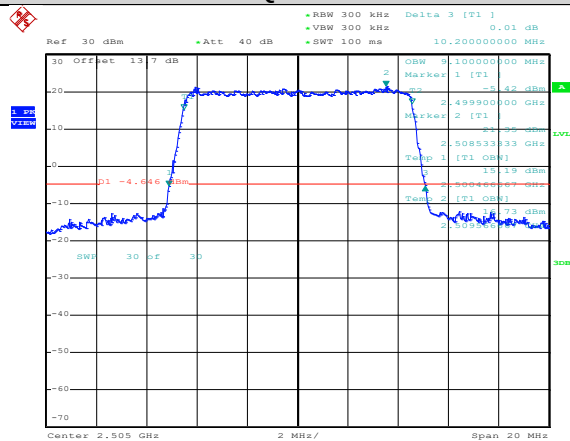
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### Band7-5MHz-16QAM-21425-25RB#0-4.51



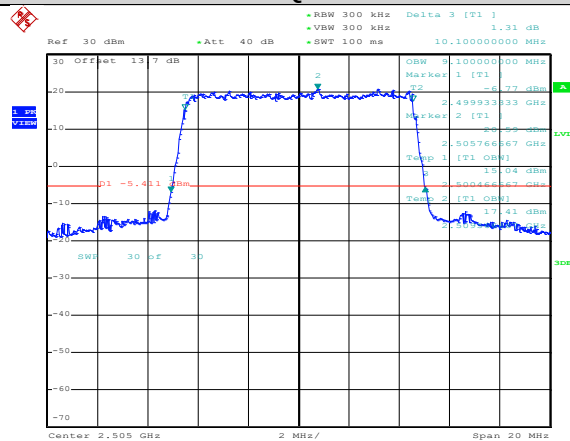
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### Band7-10MHz-QPSK-20800-50RB#0-9.1



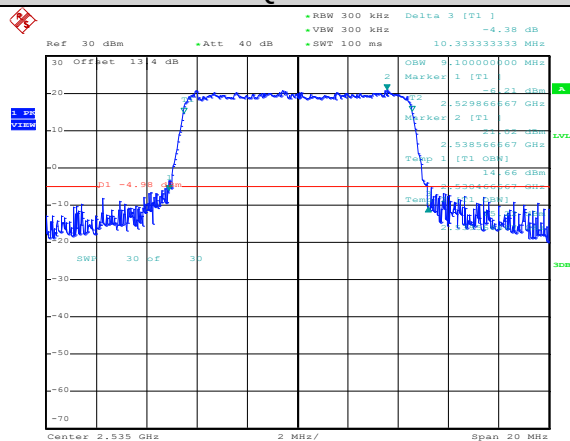
Date: 15.MAR.2021 17:17:41

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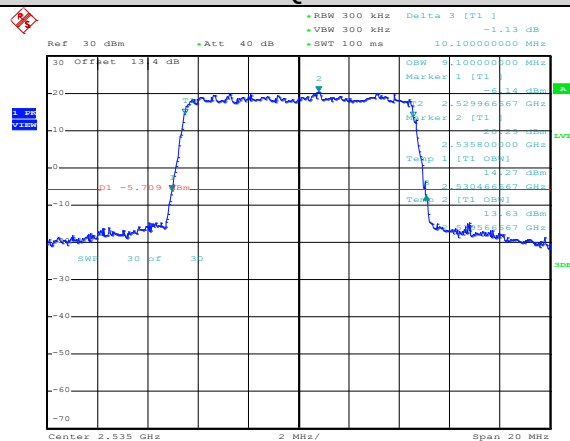
Date: 15.MAR.2021 17:18:04

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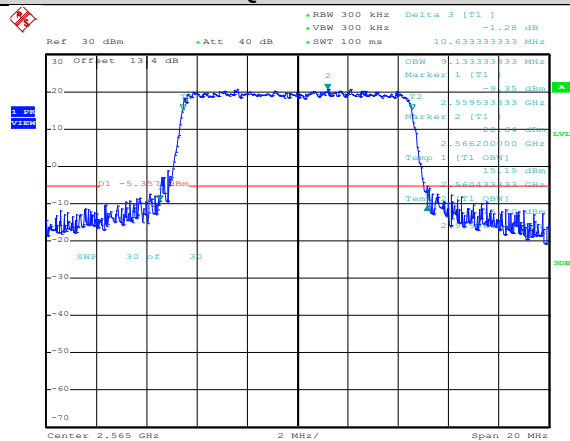
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### Band7-10MHz-16QAM-21100-50RB#0-9.1



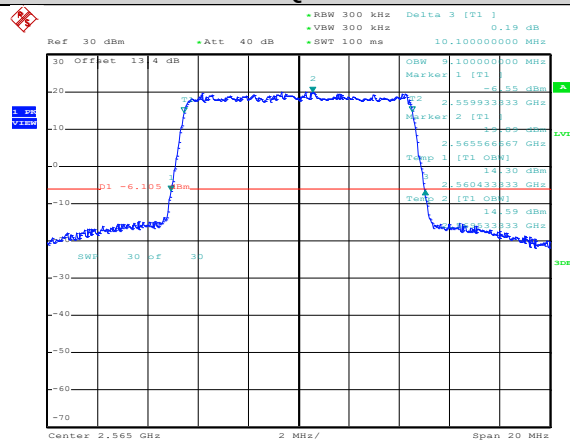
Date: 15.MAR.2021 17:18:30

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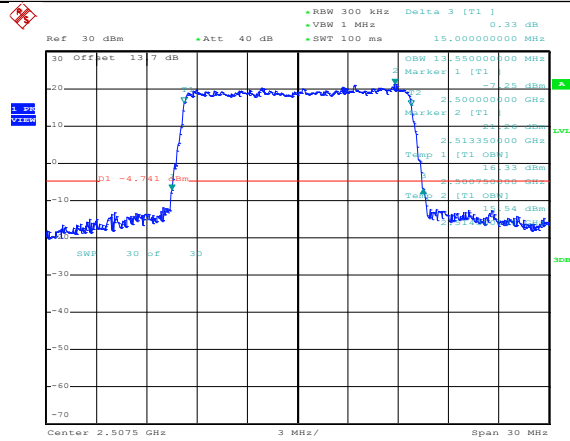
Date: 15.MAR.2021 17:18:44

### Band7-10MHz-16QAM-21400-50RB#0-9.1



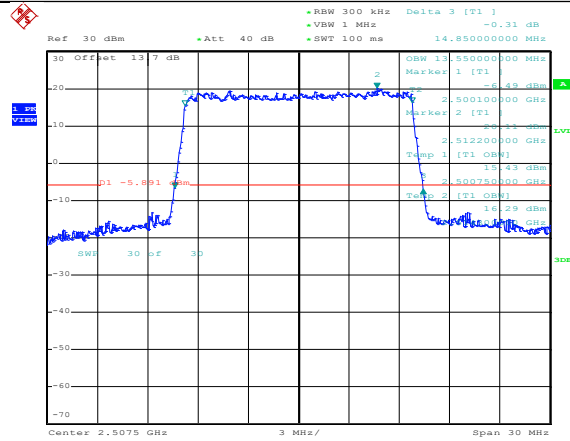
Date: 15.MAR.2021 17:18:55

### Band7-15MHz-QPSK-20825-75RB#0-13.55



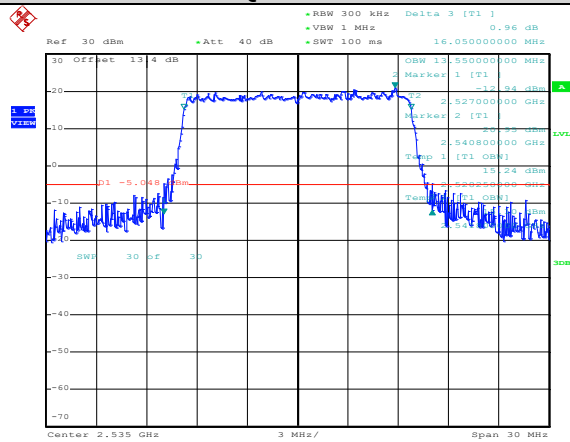
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### Band7-15MHz-16QAM-20825-75RB#0-13.55



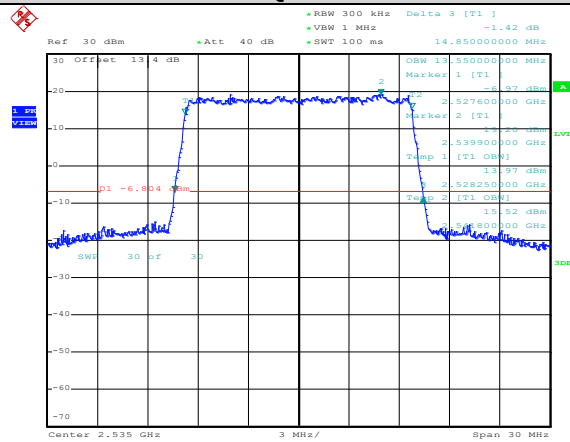
Date: 15.MAR.2021 17:20:05

### Band7-15MHz-QPSK-21100-75RB#0-13.55



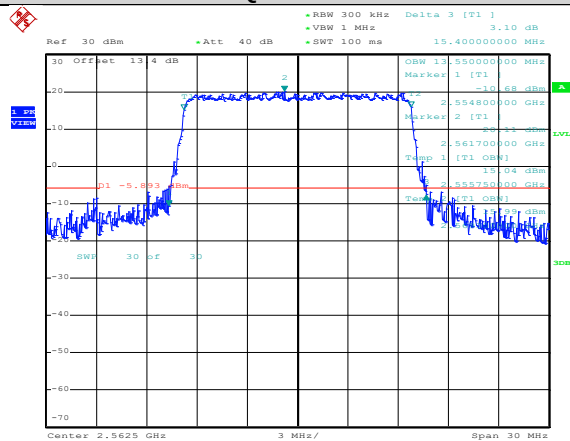
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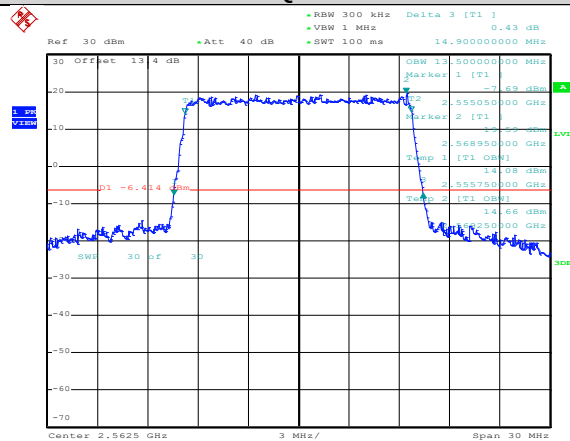
Date: 15.MAR.2021 17:20:31

### Band7-15MHz-QPSK-21375-75RB#0-13.55



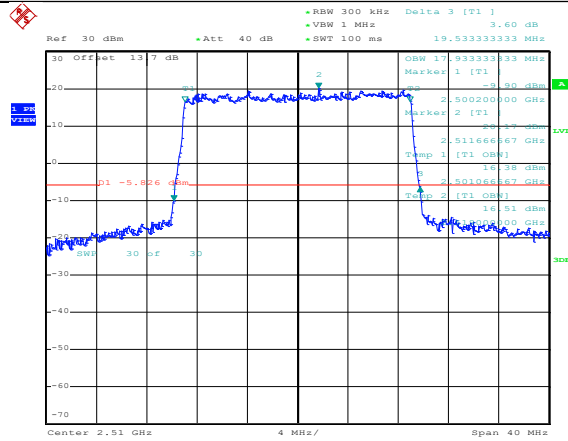
Date: 15.MAR.2021 17:20:46

### Band7-15MHz-16QAM-21375-75RB#0-13.5



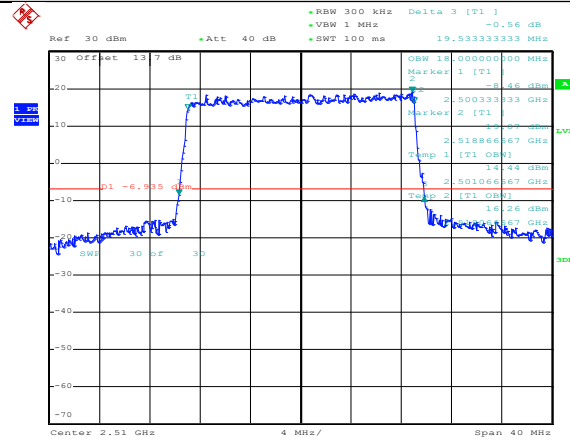
Date: 15.MAR.2021 17:20:57

### Band7-20MHz-QPSK-20850-100RB#0-17.933



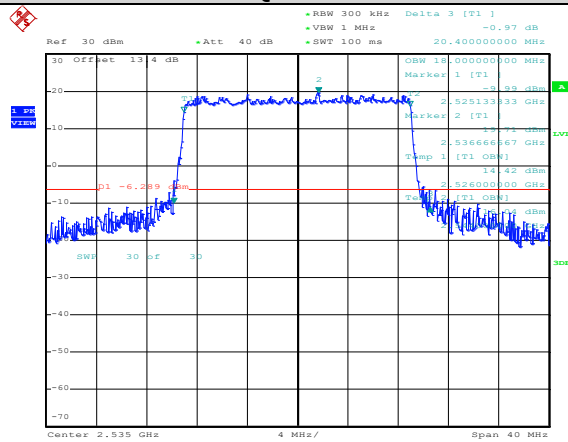
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### Band7-20MHz-16QAM-20850-100RB#0-18



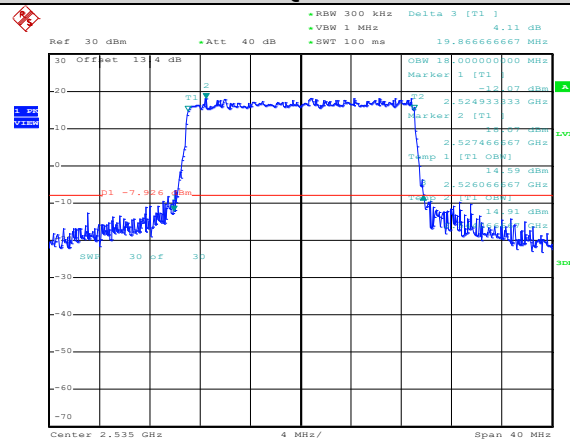
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### Band7-20MHz-QPSK-21100-100RB#0-18



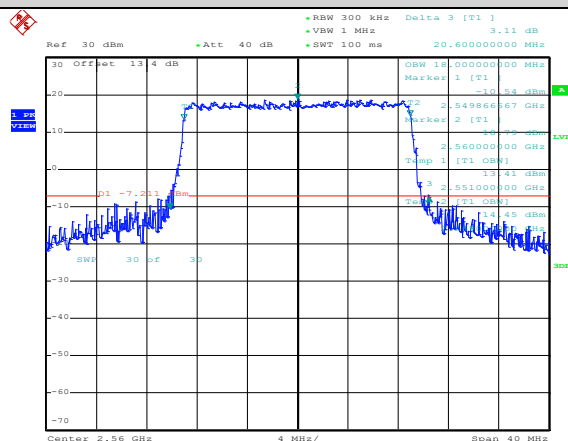
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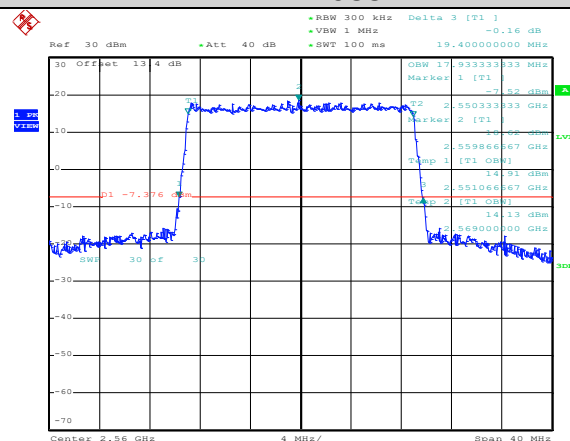
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### Band7-20MHz-QPSK-21350-100RB#0-18



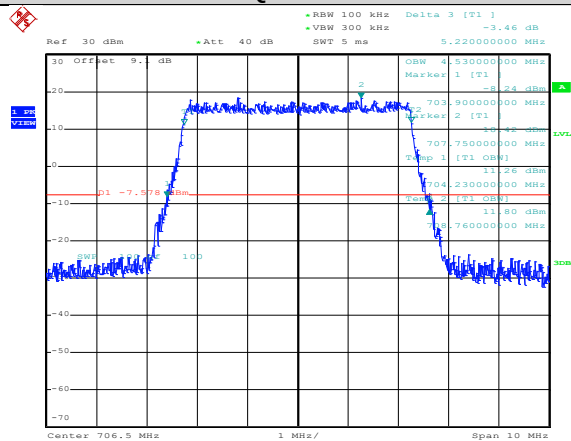
Date: 15.MAR.2021 17:22:44

### Band7-20MHz-16QAM-21350-100RB#0-17.933



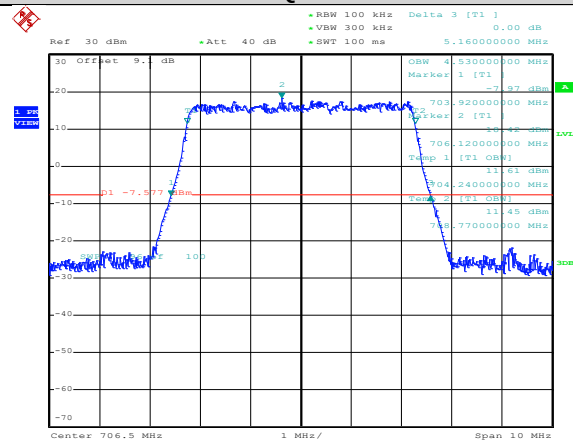
Date: 15.MAR.2021 17:22:55

### Band17-5MHz-QPSK-23755-25RB#0-4.53



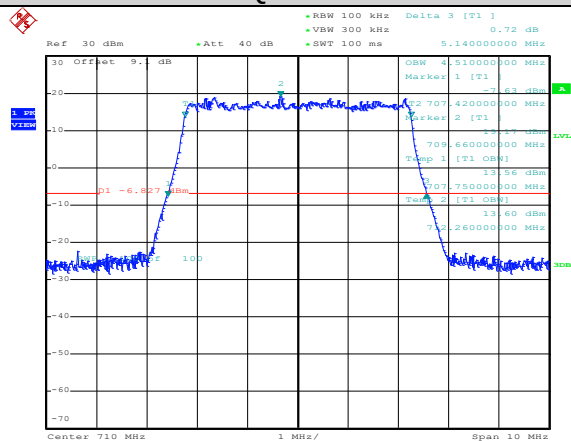
Date: 15.MAR.2021 17:25:08

### Band17-5MHz-16QAM-23755-25RB#0-4.53



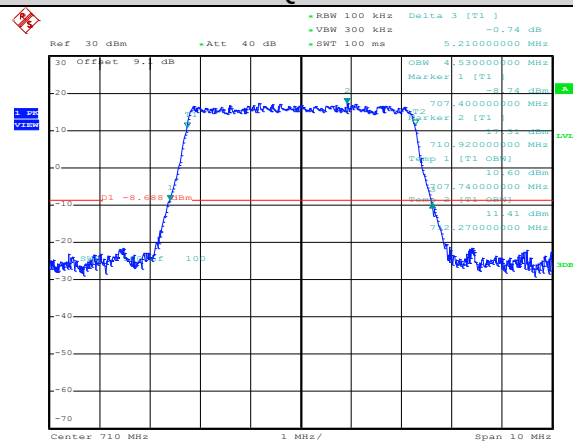
Date: 15.MAR.2021 17:25:26

### Band17-5MHz-QPSK-23790-25RB#0-4.51



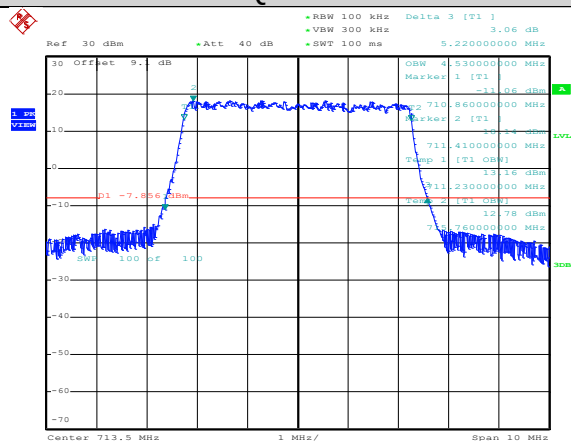
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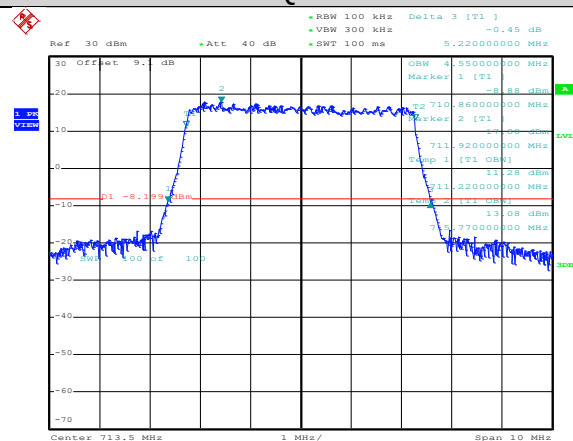
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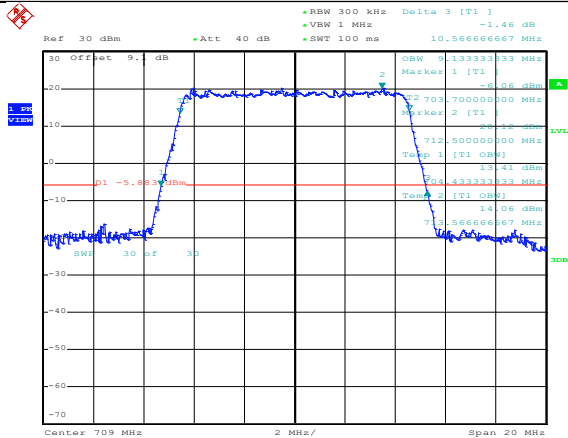
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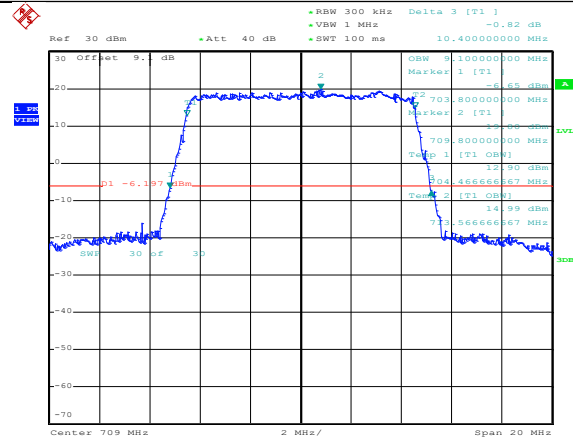
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### Band17-10MHz-QPSK-23780-50RB#0-9.133



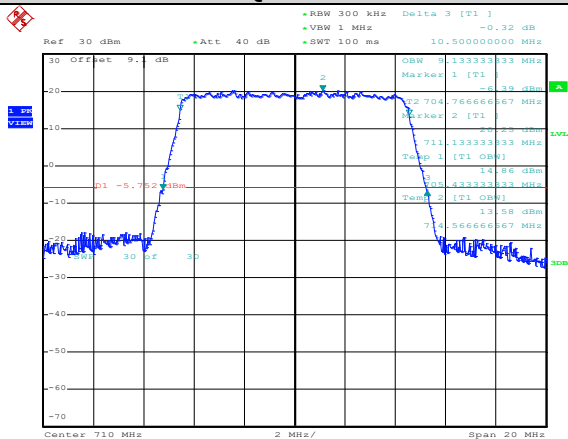
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### Band17-10MHz-16QAM-23780-50RB#0-9.1



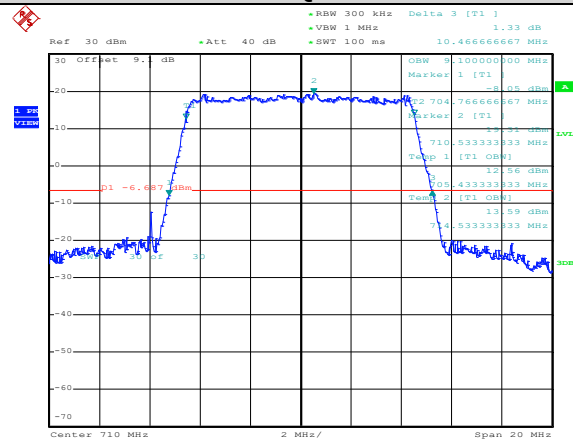
Date: 15.MAR.2021 17:27:48

### Band17-10MHz-QPSK-23790-50RB#0-9.133



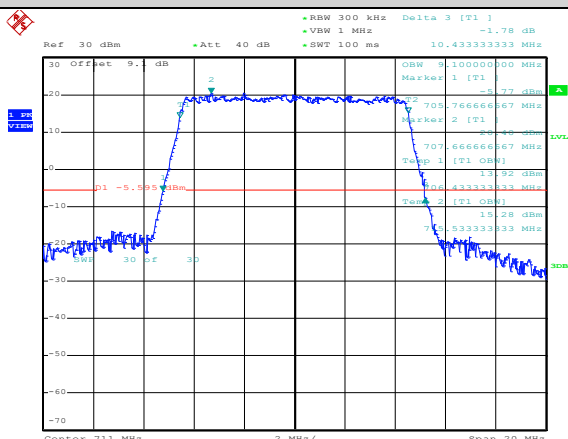
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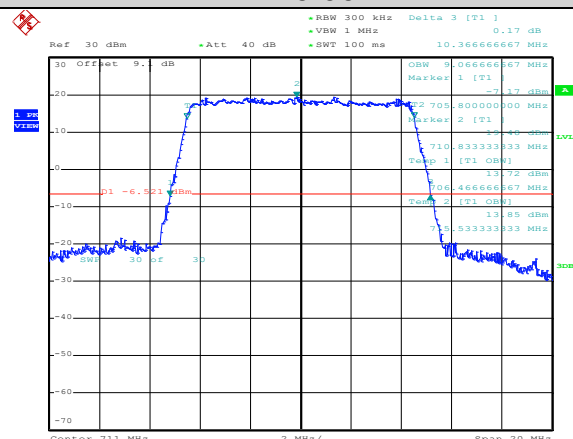
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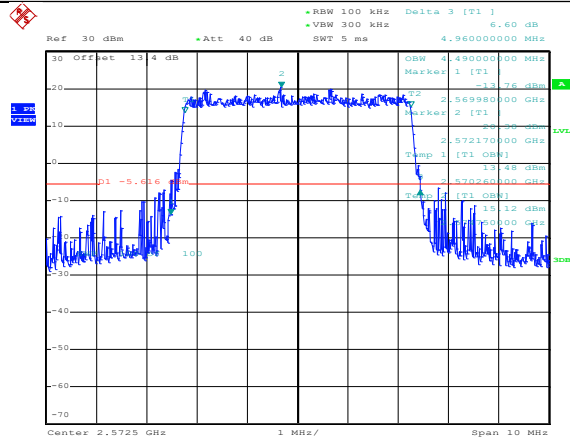
Date: 15.MAR.2021 17:28:27

### Band17-10MHz-16QAM-23800-50RB#0-9.067



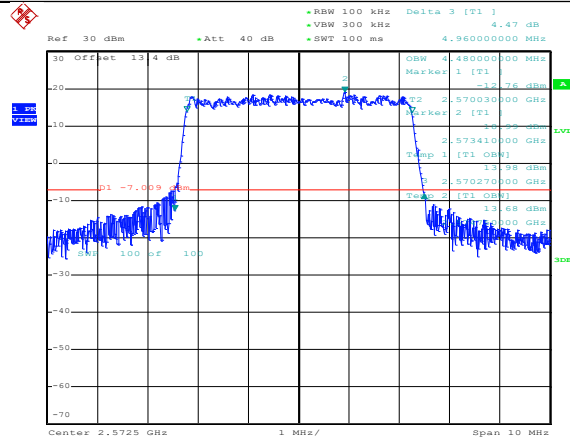
Date: 15.MAR.2021 17:28:38

### Band38-5MHz-QPSK-37775-25RB#0-4.49



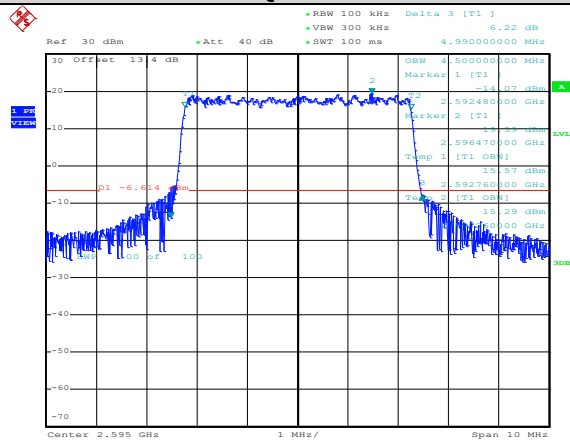
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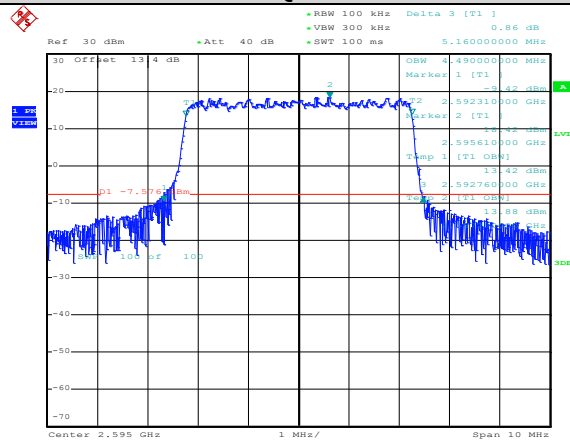
Date: 15.MAR.2021 17:30:26

### Band38-5MHz-QPSK-38000-25RB#0-4.5



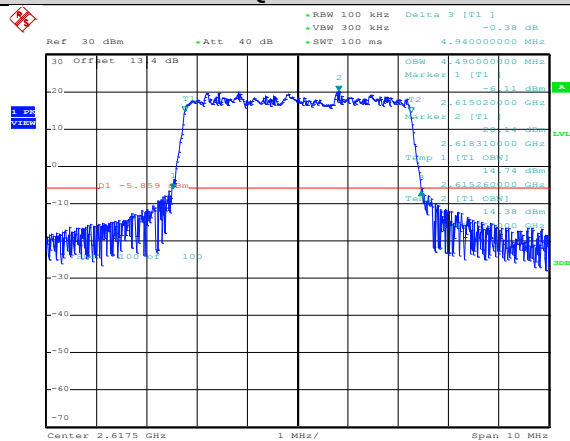
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### Band38-5MHz-16QAM-38000-25RB#0-4.49



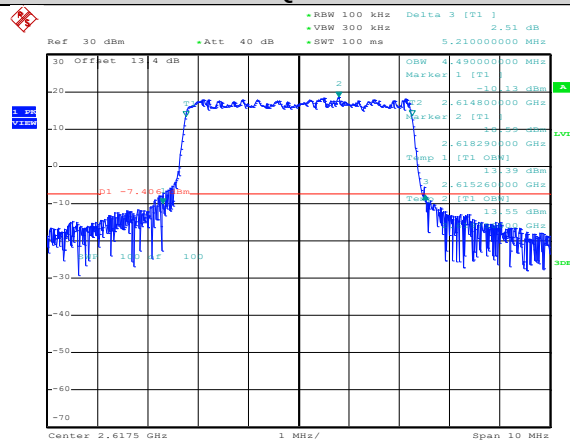
Date: 15.MAR.2021 17:31:05

### Band38-5MHz-QPSK-38225-25RB#0-4.49



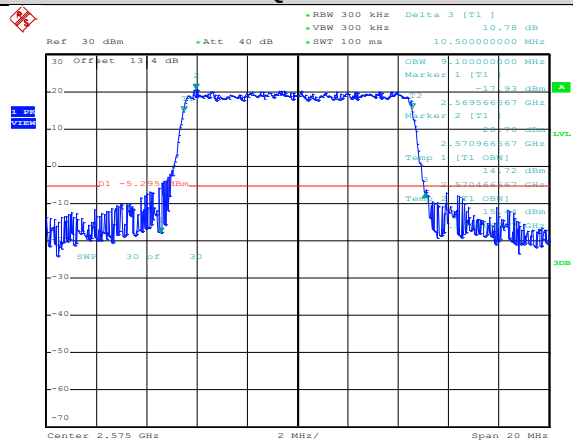
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### Band38-5MHz-16QAM-38225-25RB#0-4.49



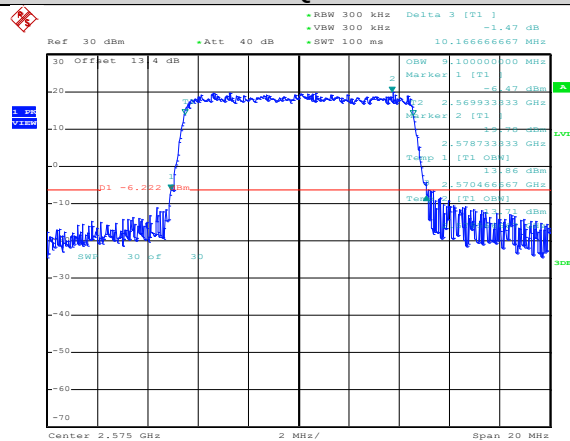
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Band38-10MHz-QPSK-37800-50RB#0-9.1



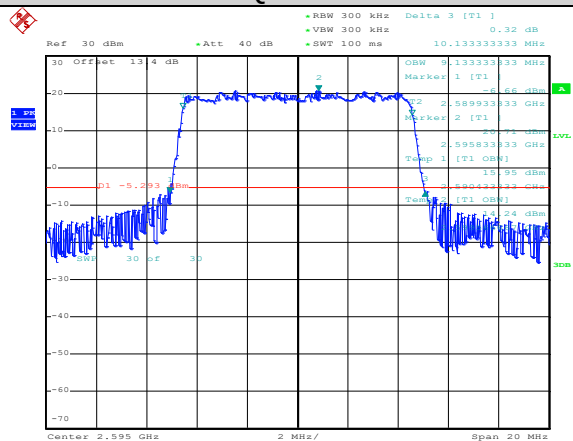
Date: 15.MAR.2021 17:32:41

Band38-10MHz-16QAM-37800-50RB#0-9.1



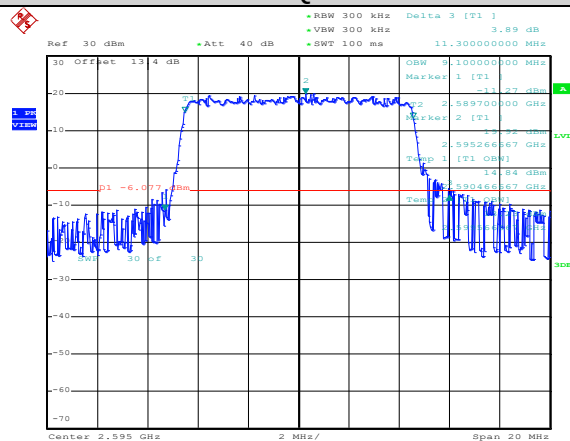
Date: 15.MAR.2021 17:32:52

Band38-10MHz-QPSK-38000-50RB#0-9.133



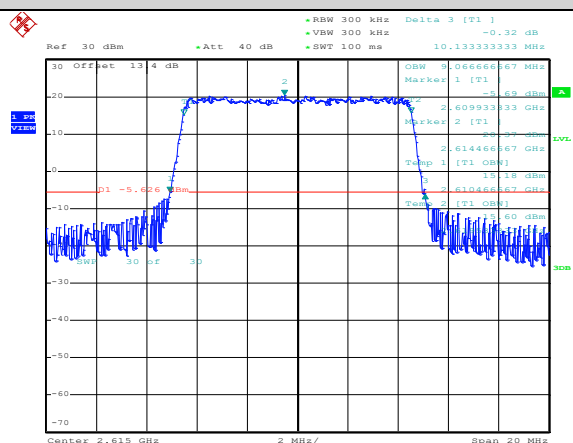
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Band38-10MHz-16QAM-38000-50RB#0-9.1



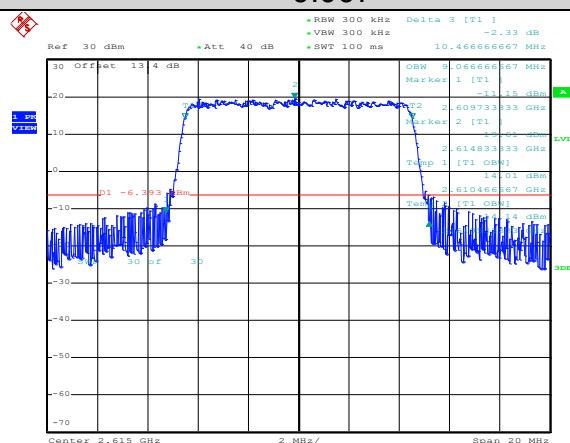
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Band38-10MHz-QPSK-38200-50RB#0-9.067



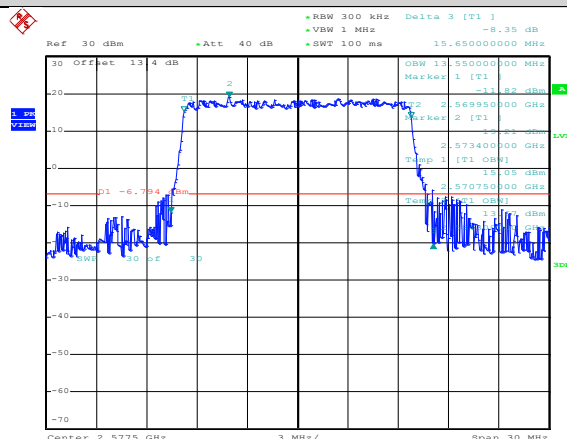
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Band38-10MHz-16QAM-38200-50RB#0-  
9.067



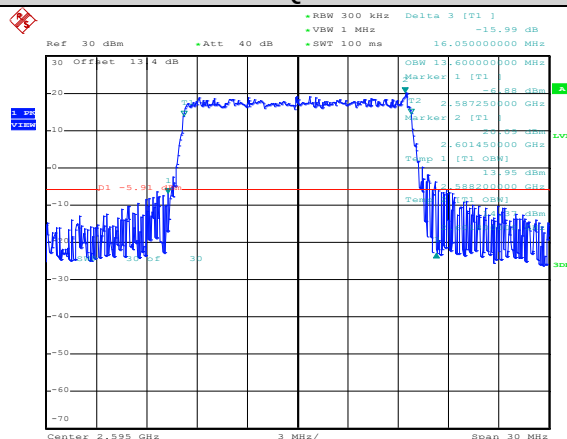
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Band38-15MHz-16QAM-37825-75RB#0-  
13.55



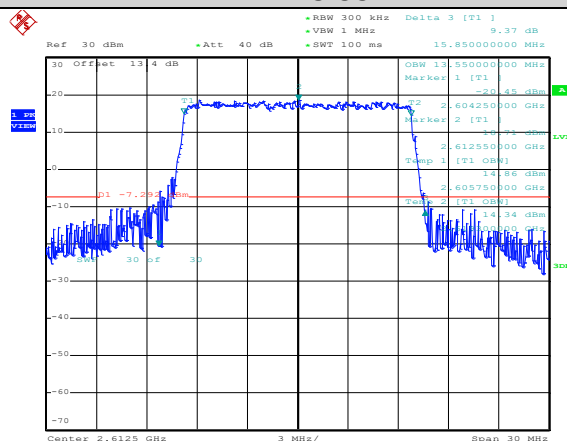
Date: 15.MAR.2021 17:34:51

Band38-15MHz-16QAM-38000-75RB#0-13.6



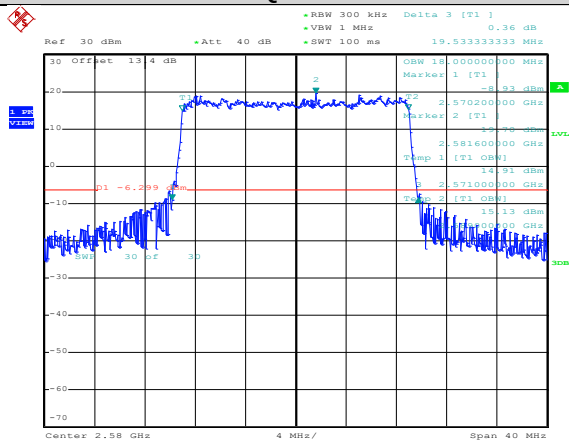
Date: 15.MAR.2021 17:35:16

Band38-15MHz-16QAM-38175-75RB#0-  
13.55



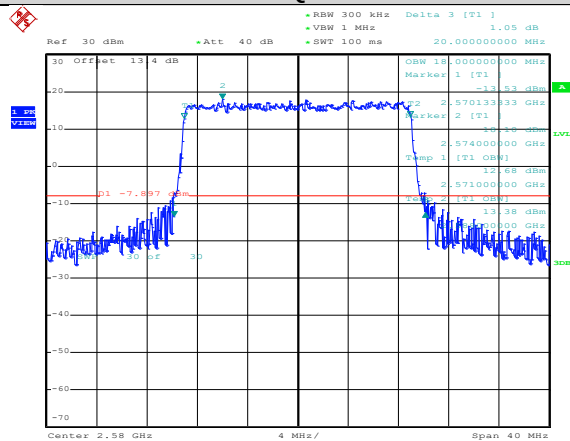
Date: 15.MAR.2021 17:35:41

### Band38-20MHz-QPSK-37850-100RB#0-18



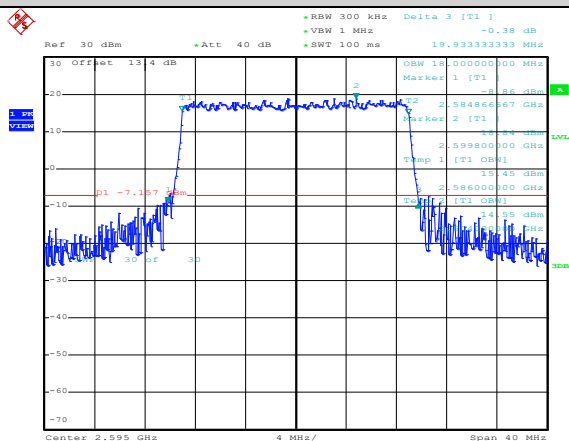
Date: 15.MAR.2021 17:36:39

### Band38-20MHz-16QAM-37850-100RB#0-18



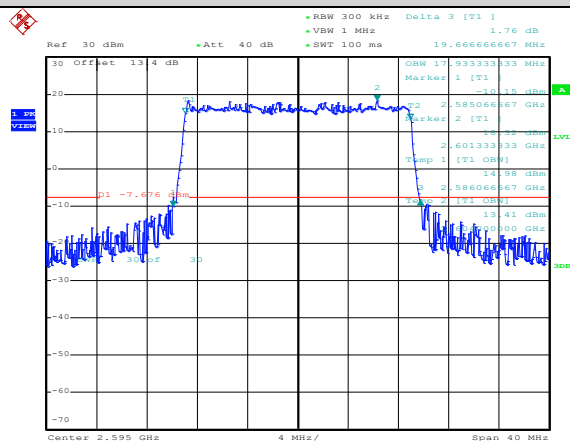
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### Band38-20MHz-QPSK-38000-100RB#0-18



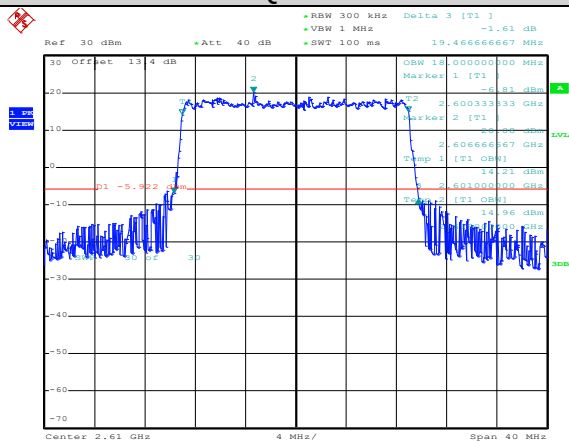
Date: 15.MAR.2021 17:37:04

### Band38-20MHz-16QAM-38000-100RB#0-17.933



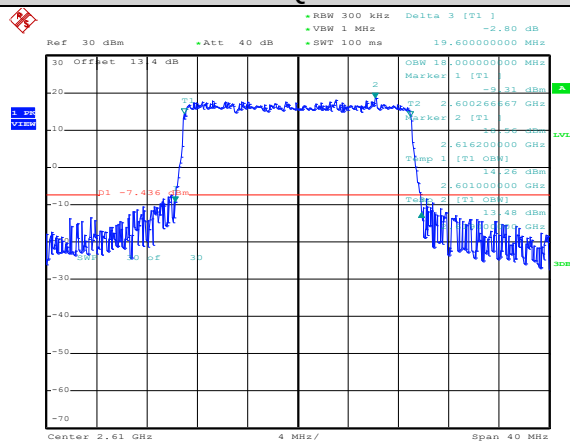
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### Band38-20MHz-QPSK-38150-100RB#0-18



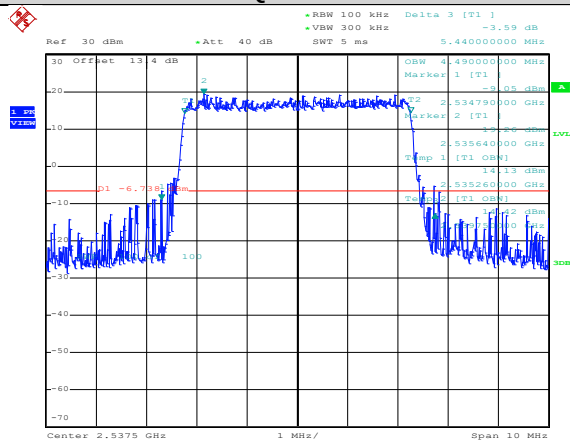
Date: 15.MAR.2021 17:37:29

### Band38-20MHz-16QAM-38150-100RB#0-18



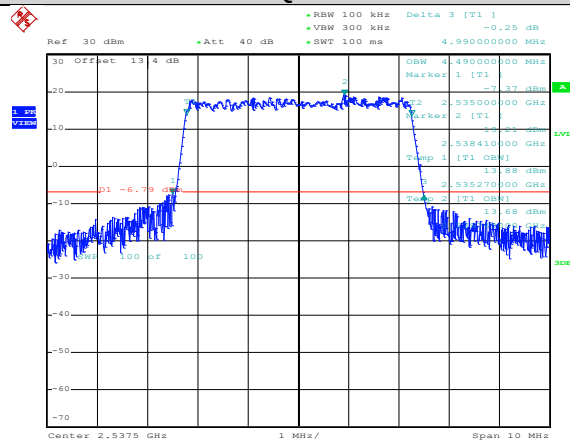
Date: 15.MAR.2021 17:37:40

Band41-5MHz-QPSK-40065-25RB#0-4.49



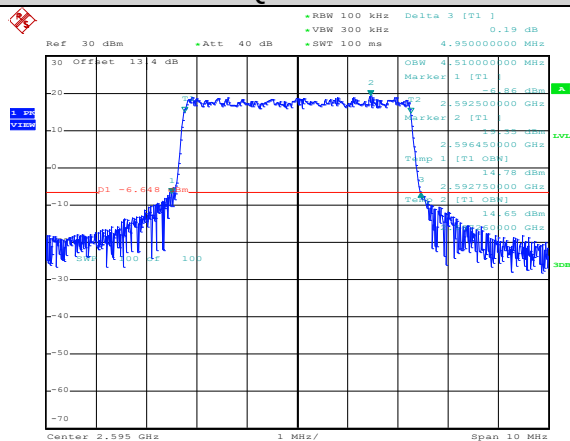
Date: 15.MAR.2021 17:38:38

Band41-5MHz-16QAM-40065-25RB#0-4.49



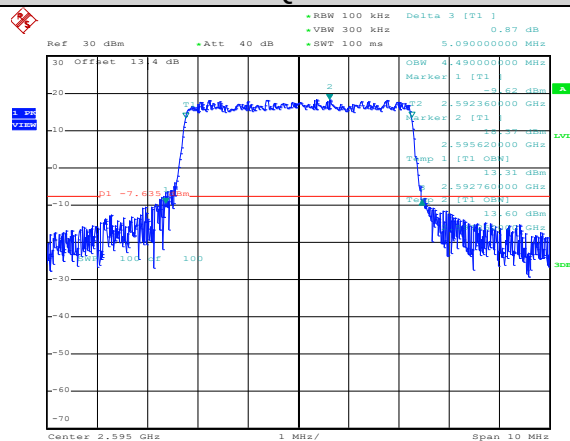
Date: 15.MAR.2021 17:38:57

Band41-5MHz-QPSK-40640-25RB#0-4.51



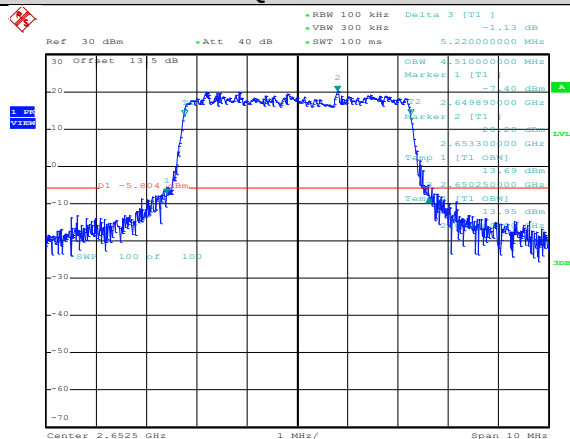
Date: 15.MAR.2021 17:39:18

Band41-5MHz-16QAM-40640-25RB#0-4.49



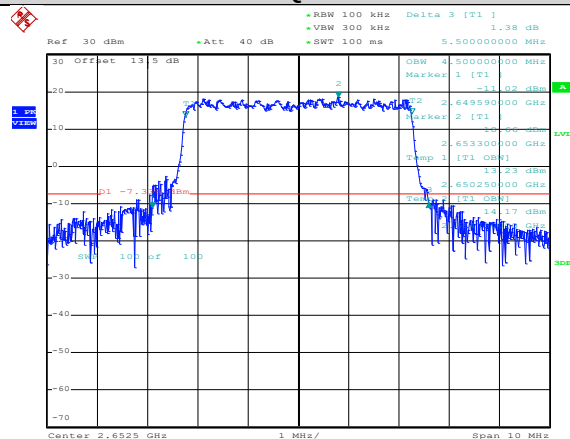
Date: 15.MAR.2021 17:39:36

Band41-5MHz-QPSK-41215-25RB#0-4.51



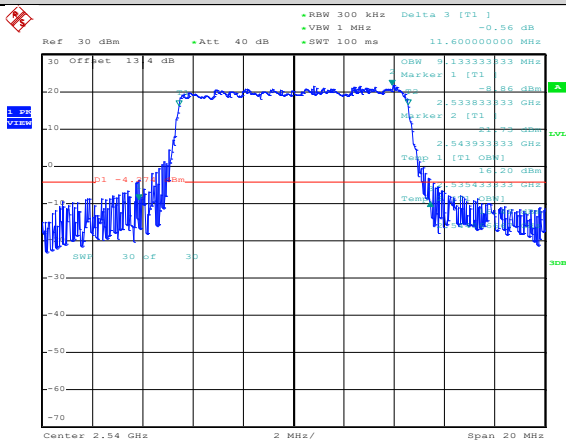
Date: 15.MAR.2021 17:39:58

Band41-5MHz-16QAM-41215-25RB#0-4.5



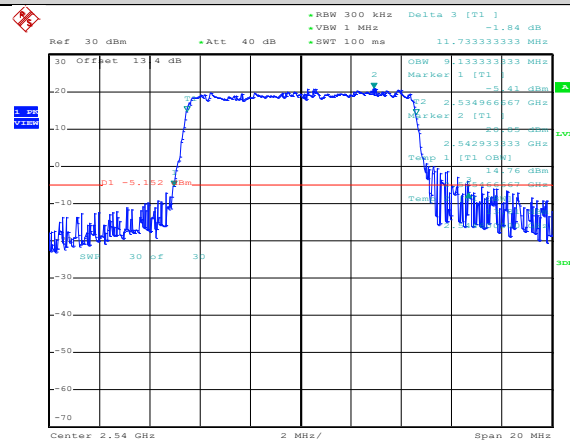
Date: 15.MAR.2021 17:40:16

### Band41-10MHz-QPSK-40090-50RB#0-9.133



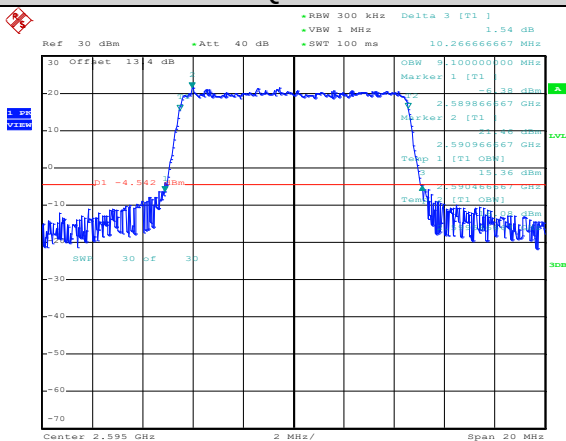
Date: 15.MAR.2021 17:40:56

### Band41-10MHz-16QAM-40090-50RB#0-9.133



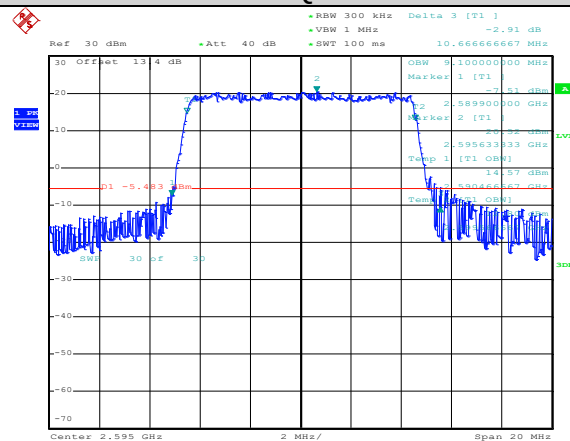
Date: 15.MAR.2021 17:41:07

### Band41-10MHz-QPSK-40640-50RB#0-9.1



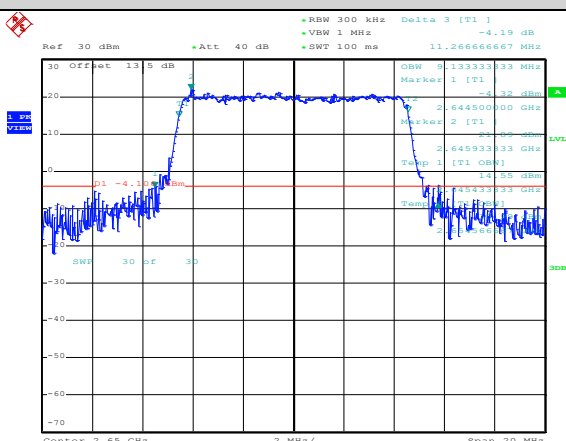
Date: 15.MAR.2021 17:41:21

### Band41-10MHz-16QAM-40640-50RB#0-9.1



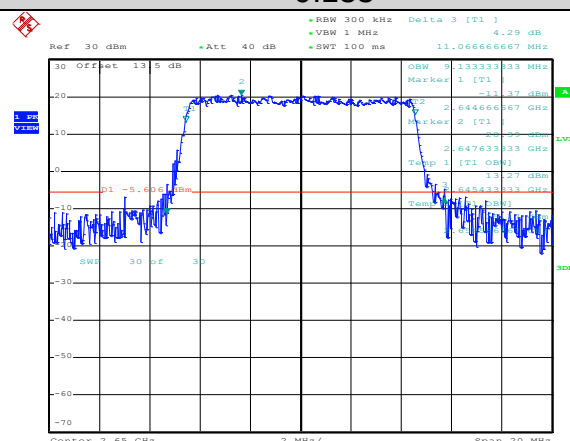
Date: 15.MAR.2021 17:41:32

### Band41-10MHz-QPSK-41190-50RB#0-9.133



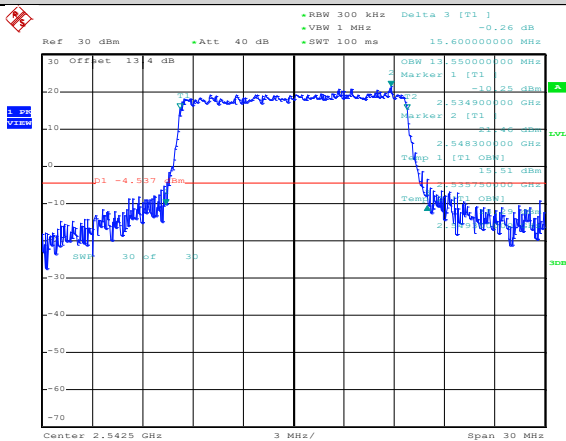
Date: 15.MAR.2021 17:41:48

### Band41-10MHz-16QAM-41190-50RB#0-9.133



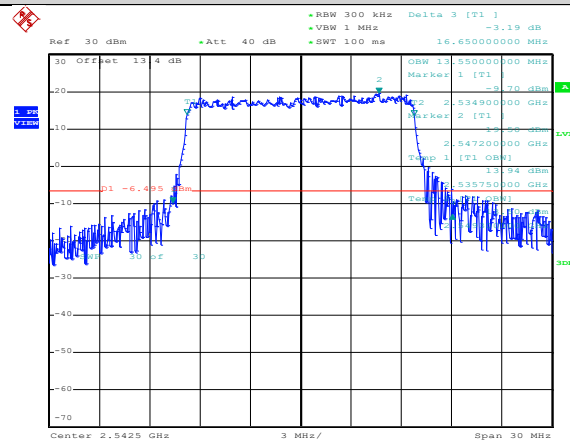
Date: 15.MAR.2021 17:41:59

### Band41-15MHz-QPSK-40115-75RB#0-13.55



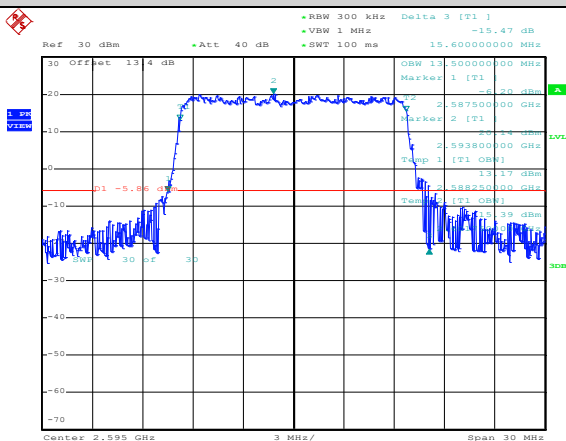
Date: 15.MAR.2021 17:42:58

### Band41-15MHz-16QAM-40115-75RB#0-13.55



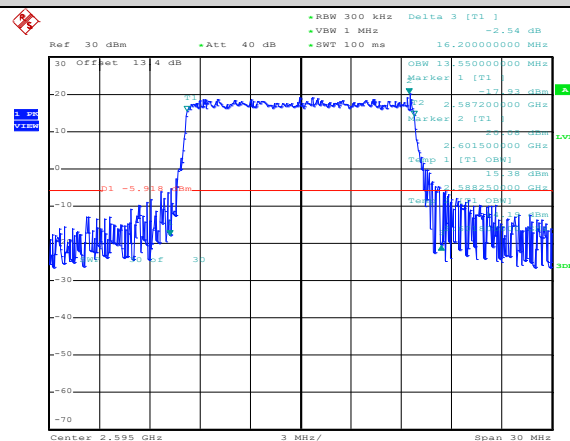
Date: 15.MAR.2021 17:43:09

### Band41-15MHz-QPSK-40640-75RB#0-13.5



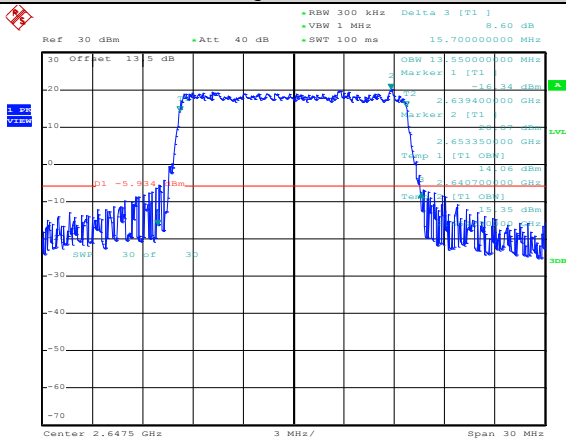
Date: 15.MAR.2021 17:43:23

### Band41-15MHz-16QAM-40640-75RB#0-13.55



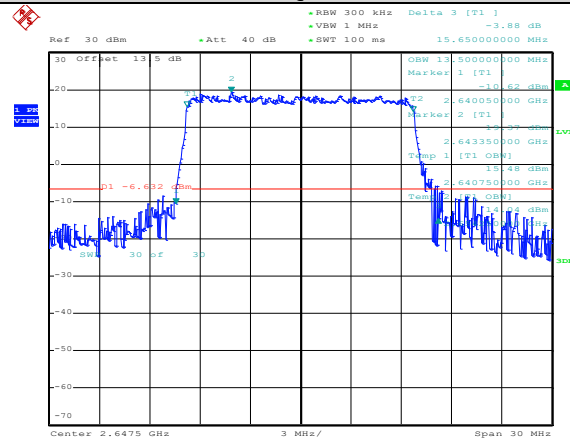
Date: 15.MAR.2021 17:43:34

### Band41-15MHz-QPSK-41165-75RB#0-13.55



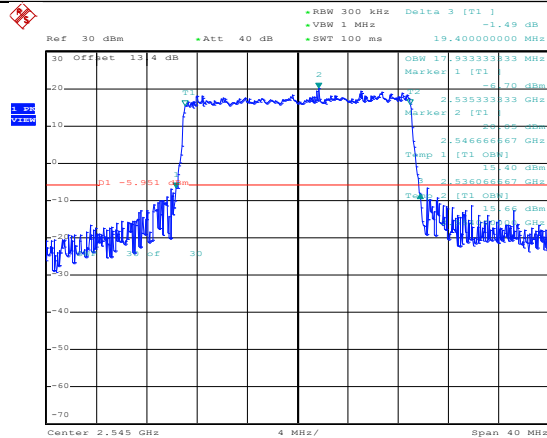
Date: 15.MAR.2021 17:43:50

### Band41-15MHz-16QAM-41165-75RB#0-13.5



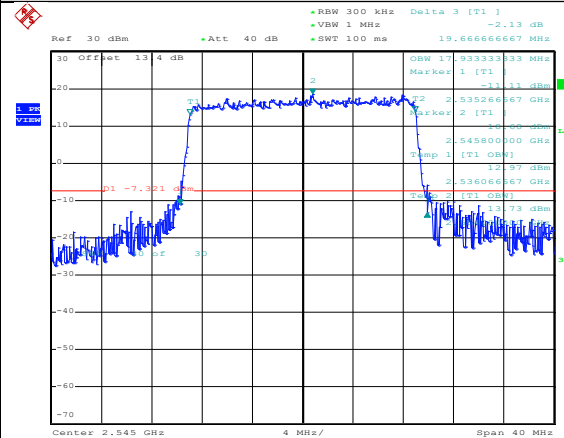
Date: 15.MAR.2021 17:44:01

### Band41-20MHz-QPSK-40140-100RB#0-17.933



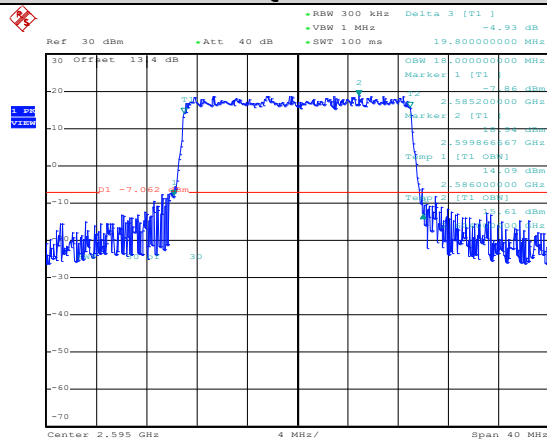
Date: 15.MAR.2021 17:45:03

### Band41-20MHz-16QAM-40140-100RB#0-17.933



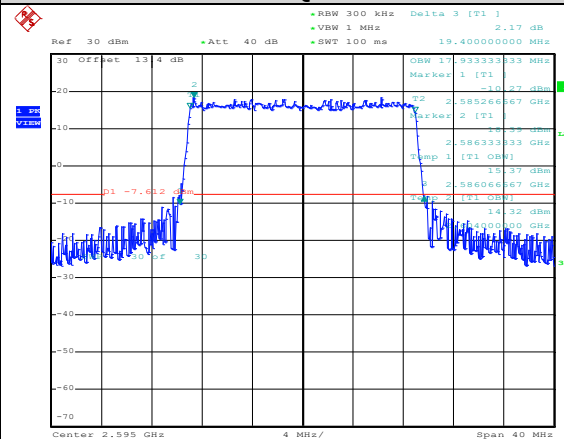
Date: 15.MAR.2021 17:45:14

### Band41-20MHz-QPSK-40640-100RB#0-18



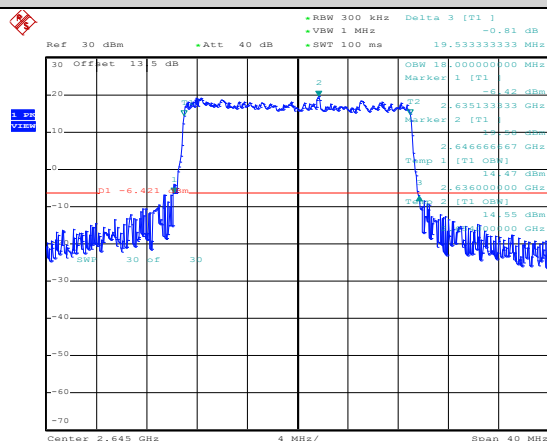
Date: 15.MAR.2021 17:45:28

### Band41-20MHz-16QAM-40640-100RB#0-18



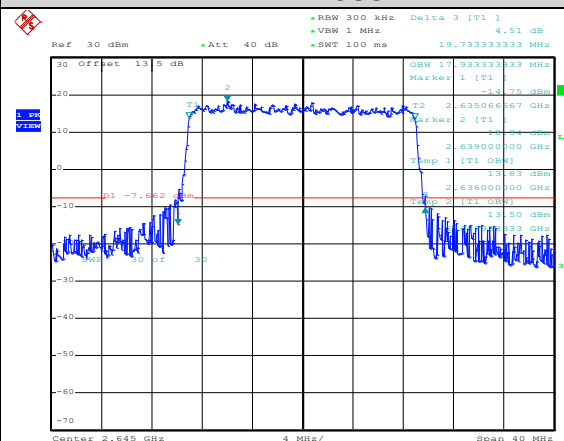
Date: 15.MAR.2021 17:45:39

### Band41-20MHz-QPSK-41140-100RB#0-18



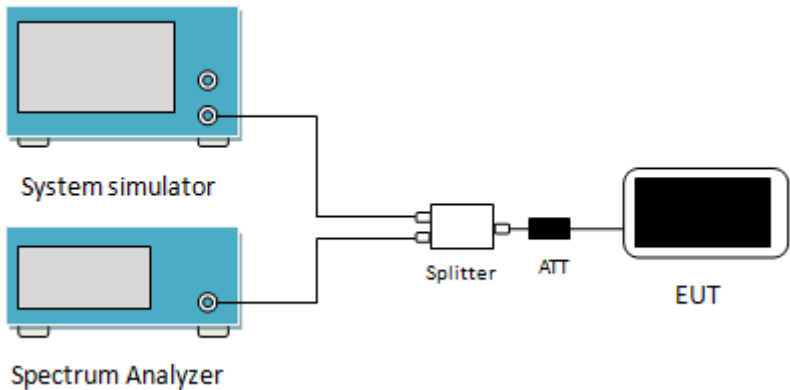
Date: 15.MAR.2021 17:45:54

### Band41-20MHz-16QAM-41140-100RB#0-17.933



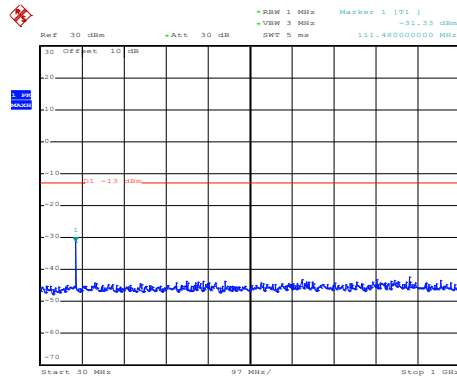
Date: 15.MAR.2021 17:46:05

## 6.4 Out of band emission at antenna terminals

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | <p>LTE Band 2 &amp; 4 &amp; 5 &amp; 17:<br/>The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 7 &amp; 38 &amp; 41:<br/>For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log (P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log (P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log (P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that <math>43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log (P)</math> dB at or below 2490.5 MHz.</p> |
| 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 central 'Splitter' unit, which is a small white rectangle with two input ports and one output port. The output of the Splitter is connected to a black rectangular unit labeled 'ATT' (Attenuator). Finally, the output of the ATT is connected to a white rectangular unit with a black screen, 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 For the out of band: For Band 5 &amp; 12 &amp; 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 &amp; 4 &amp; 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>                                                                                                                                                                                                                                                                                                                            |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remark:           | Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

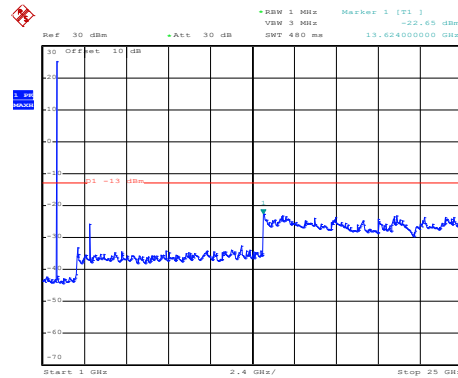
Test plots as follows (Conducted spurious emission) (worst case):  
LTE Band 2 part:

LTE Band 2: 16 QAM & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 12.MAR.2021 11:34:52

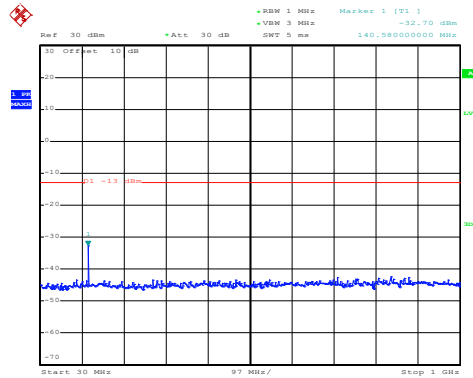
30MHz~1GHz



Date: 12.MAR.2021 14:24:40

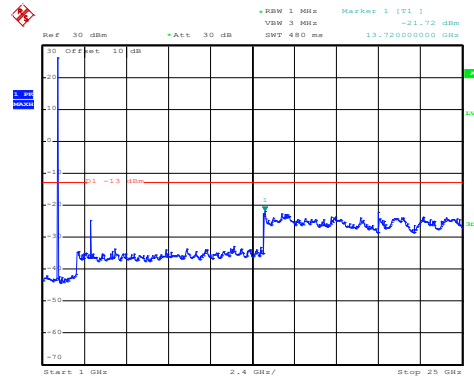
1GHz~25GHz

Middle channel



Date: 12.MAR.2021 11:35:15

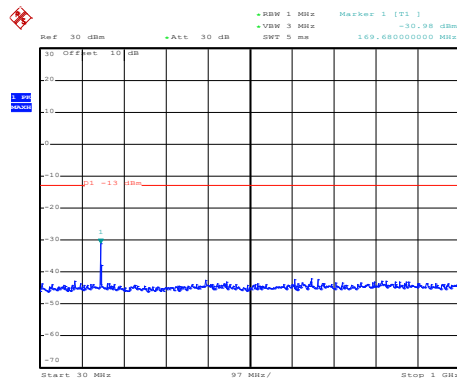
30MHz~1GHz



Date: 12.MAR.2021 14:25:02

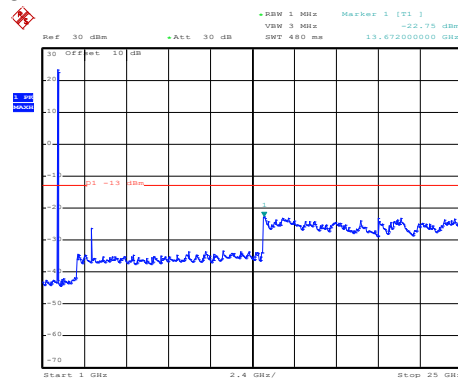
1GHz~25GHz

High channel



Date: 12.MAR.2021 11:35:41

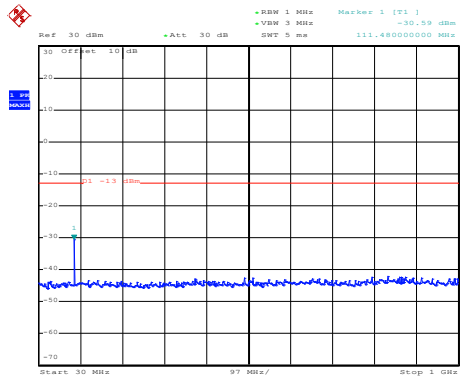
30MHz~1GHz



Date: 12.MAR.2021 14:25:25

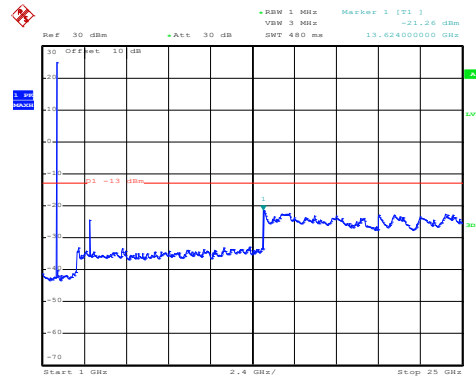
1GHz~25GHz

LTE Band 2: QPSK & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 12.MAR.2021 11:34:46

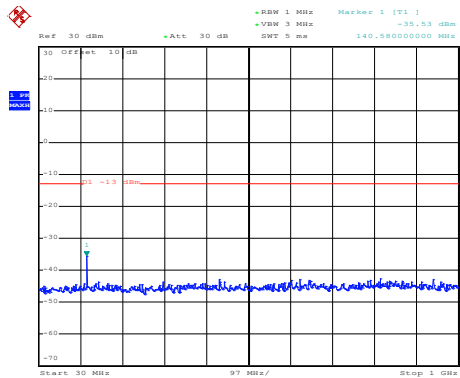
30MHz~1GHz



Date: 12.MAR.2021 14:24:32

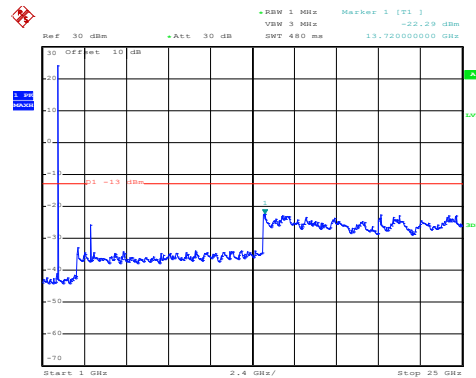
1GHz~25GHz

Middle channel



Date: 12.MAR.2021 11:35:02

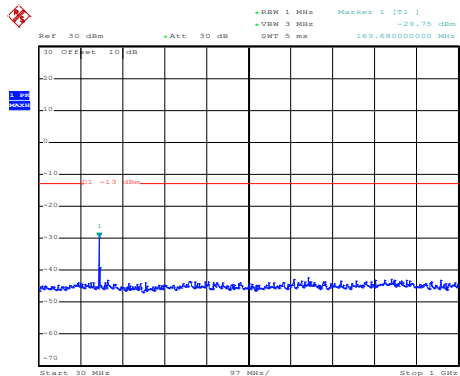
30MHz~1GHz



Date: 12.MAR.2021 14:24:51

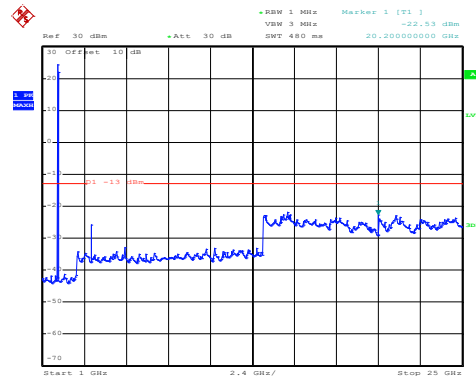
1GHz~25GHz

High channel



Date: 12.MAR.2021 11:35:27

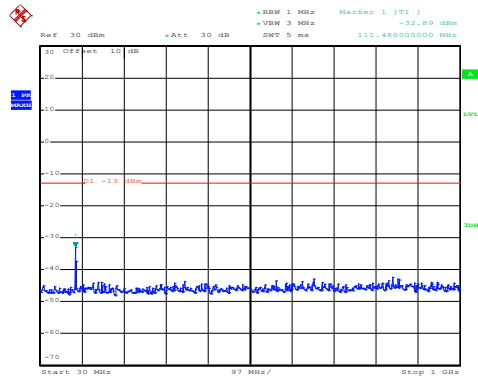
30MHz~1GHz



Date: 12.MAR.2021 14:25:15

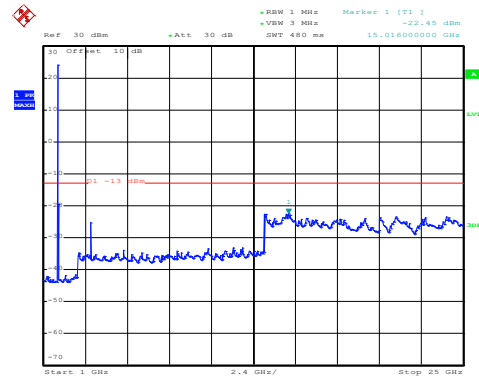
1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 12.MAR.2021 11:39:56

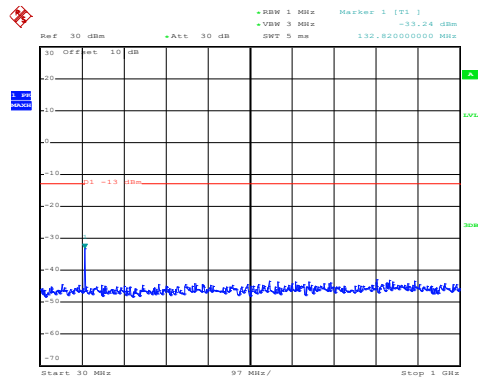
30MHz~1GHz



Date: 12.MAR.2021 11:39:39

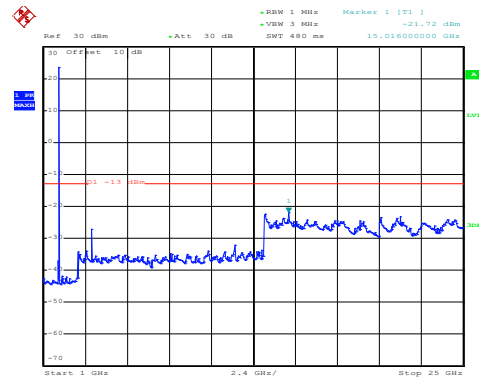
1GHz~25GHz

Middle channel



Date: 12.MAR.2021 11:40:12

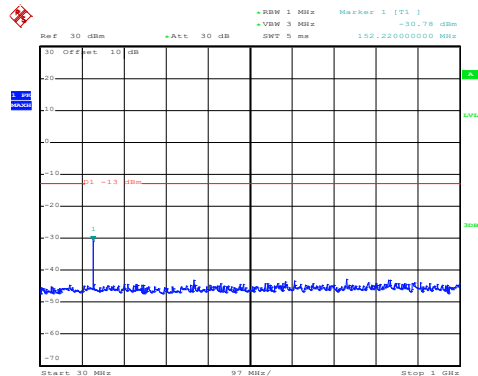
30MHz~1GHz



Date: 12.MAR.2021 11:39:20

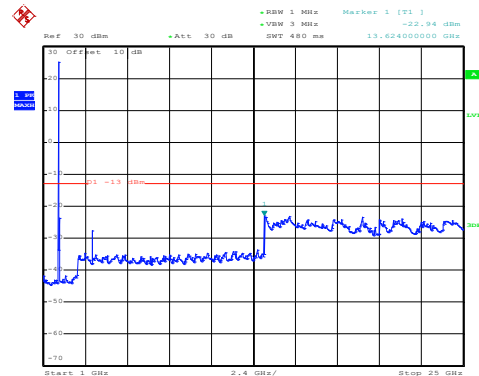
1GHz~25GHz

High channel



Date: 12.MAR.2021 11:40:24

30MHz~1GHz



Date: 12.MAR.2021 11:39:03

1GHz~25GHz