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# Main RF module appendix for LTE Band 5

**Applicant: HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED**

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**Product Name: 4G Wireless Data Terminal**

**Model: GLMU20A02**

**FCC ID: 2AC88-GLMU20A02**

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# 1 Summary of Test Results Data and Graph

## 1.1. Appendix A: Conducted Power Output Data

### Test Result

| LTE Band 5 | | | | Actual output Power (dBm) | | |
|---|---|---|---|---|---|---|
| Band-width | Modulation | RB allocation | RB offset | Low | Middle | High |
| 1.4 | QPSK | 1 | Low | 24.25 | 23.92 | 24.28 |
| | | | Middle | 24.15 | 23.41 | 24.08 |
| | | | High | 24.20 | 23.43 | 24.17 |
| | | 3 | Low | 22.77 | 23.35 | 22.54 |
| | | | Middle | 22.75 | 22.70 | 22.46 |
| | | | High | 22.72 | 22.87 | 22.43 |
| | | 6 | / | 22.69 | 22.97 | 21.92 |
| | 16QAM | 1 | Low | 23.96 | 23.56 | 23.87 |
| | | | Middle | 23.93 | 23.02 | 23.64 |
| | | | High | 23.86 | 23.03 | 23.78 |
| | | 3 | Low | 22.09 | 23.06 | 21.97 |
| | | | Middle | 22.06 | 21.91 | 21.76 |
| | | | High | 21.99 | 22.38 | 21.89 |
| | | 6 | / | 21.76 | 22.53 | 21.58 |
| 3 | QPSK | 1 | Low | 24.22 | 24.44 | 24.27 |
| | | | Middle | 24.13 | 24.41 | 24.06 |
| | | | High | 24.17 | 24.35 | 24.15 |
| | | 8 | Low | 22.74 | 22.88 | 22.52 |
| | | | Middle | 22.72 | 22.93 | 22.45 |
| | | | High | 22.70 | 22.79 | 22.41 |
| | | 15 | / | 22.66 | 22.50 | 21.91 |
| | 16QAM | 1 | Low | 23.93 | 24.07 | 23.86 |
| | | | Middle | 23.90 | 24.00 | 23.63 |
| | | | High | 23.83 | 23.99 | 23.76 |
| | | 8 | Low | 22.06 | 22.18 | 21.96 |
| | | | Middle | 22.04 | 22.12 | 21.75 |
| | | | High | 21.97 | 22.11 | 21.87 |
| | | 15 | / | 21.74 | 21.90 | 21.56 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 | QPSK | 1 | Low | 24.27 | 24.41 | 24.29 |
| | | | Middle | 24.17 | 24.38 | 24.09 |
| | | | High | 24.22 | 24.32 | 24.18 |
| | | 12 | Low | 22.79 | 22.85 | 22.55 |
| | | | Middle | 22.77 | 22.90 | 22.47 |
| | | | High | 22.74 | 22.76 | 22.44 |
| | | 25 | / | 22.71 | 22.47 | 21.93 |
| | 16QAM | 1 | Low | 23.98 | 24.04 | 23.89 |
| | | | Middle | 23.95 | 23.97 | 23.65 |
| | | | High | 23.88 | 23.96 | 23.79 |
| | | 12 | Low | 22.11 | 22.15 | 21.98 |
| | | | Middle | 22.08 | 22.09 | 21.77 |
| | | | High | 22.02 | 22.08 | 21.90 |
| | | 25 | / | 21.78 | 21.87 | 21.59 |
| 10 | QPSK | 1 | Low | 24.35 | **24.49** | 24.38 |
| | | | Middle | 24.25 | 24.46 | 24.18 |
| | | | High | 24.30 | 24.40 | 24.26 |
| | | 25 | Low | 22.86 | 22.92 | 22.63 |
| | | | Middle | 22.84 | 22.98 | 22.55 |
| | | | High | 22.81 | 22.84 | 22.52 |
| | | 50 | / | 22.78 | 22.55 | 22.01 |
| | 16QAM | 1 | Low | 23.73 | 23.83 | 23.71 |
| | | | Middle | 23.70 | 23.76 | 23.48 |
| | | | High | 23.63 | 23.76 | 23.62 |
| | | 25 | Low | 21.87 | 21.97 | 21.83 |
| | | | Middle | 21.85 | 21.90 | 21.61 |
| | | | High | 21.78 | 21.89 | 21.74 |
| | | 50 | / | 21.55 | 21.68 | 21.43 |

## 1.2. Appendix B: Peak-to-Average Ratio(CCDF)

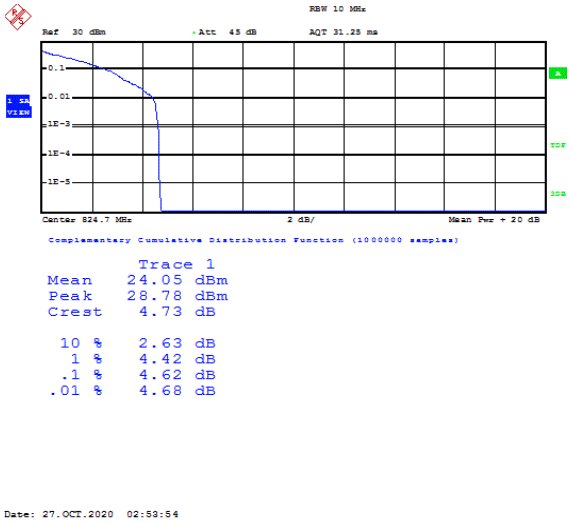
### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 4.62 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 5.32 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 4.84 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 5.48 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 4.42 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 5.10 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 5.80 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 6.38 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 5.80 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 6.35 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 5.48 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 5.93 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 4.58 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 5.48 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 4.87 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 5.51 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 4.62 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 5.26 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 5.48 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 6.35 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 5.93 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 6.38 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 5.38 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 6.19 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 4.62 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 5.48 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 4.90 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 5.42 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 4.65 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 5.29 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 5.54 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 6.31 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 5.77 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 6.28 | 13 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 5.51 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 6.25 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 4.65 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 5.42 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 4.94 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 5.29 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 4.55 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 5.38 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 5.71 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.35 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 5.87 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.31 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 5.32 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 6.41 | 13 | PASS |

## Test Graphs

### Band5-1.4MHz-QPSK-20407-1RB#0

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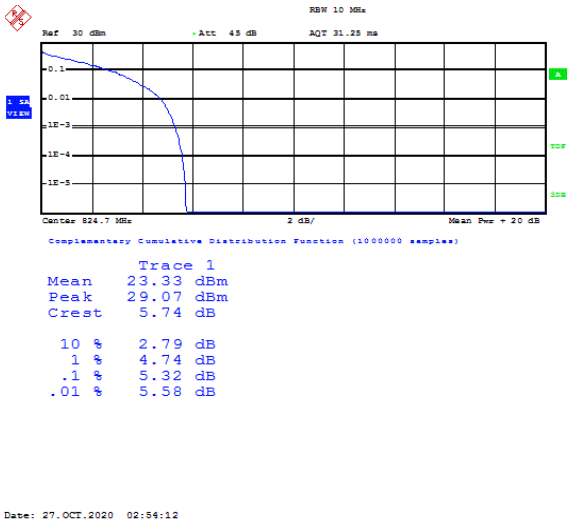


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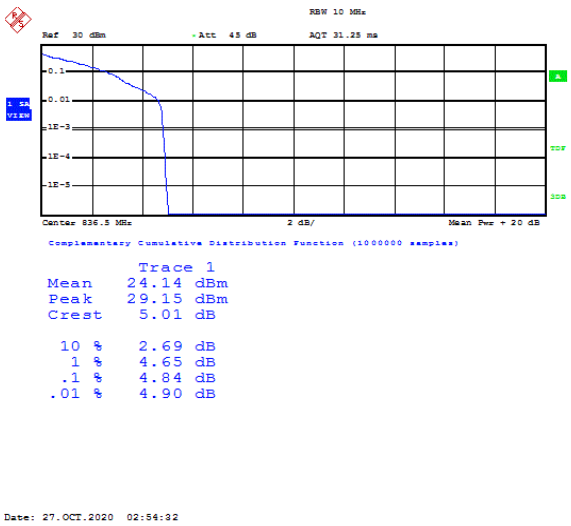


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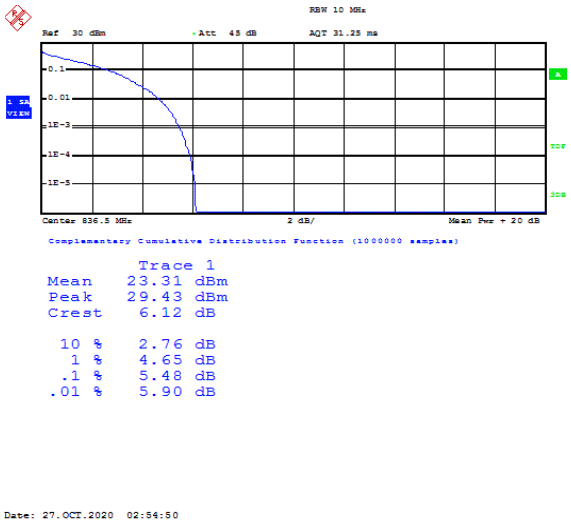


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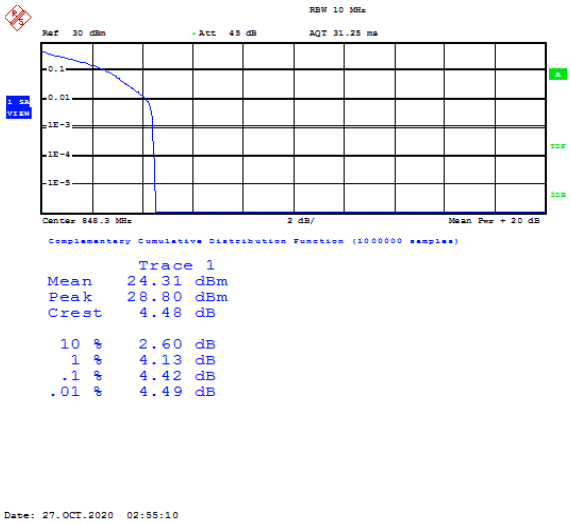


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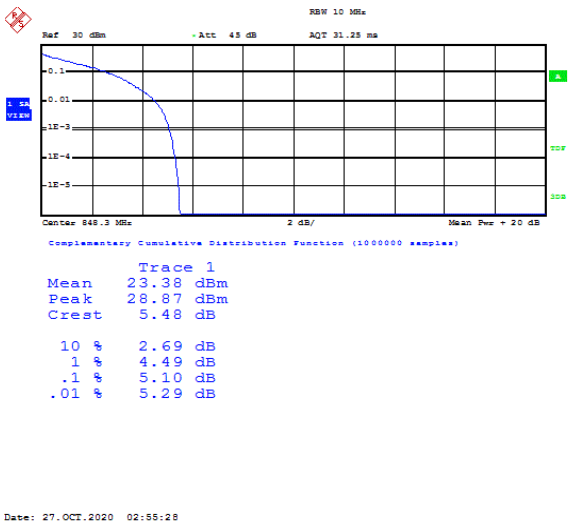


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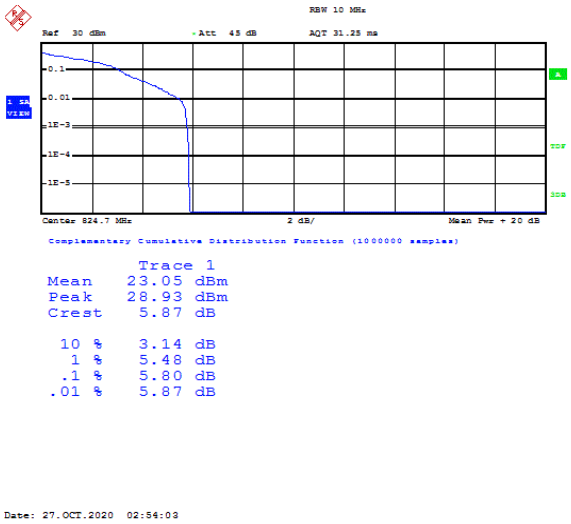


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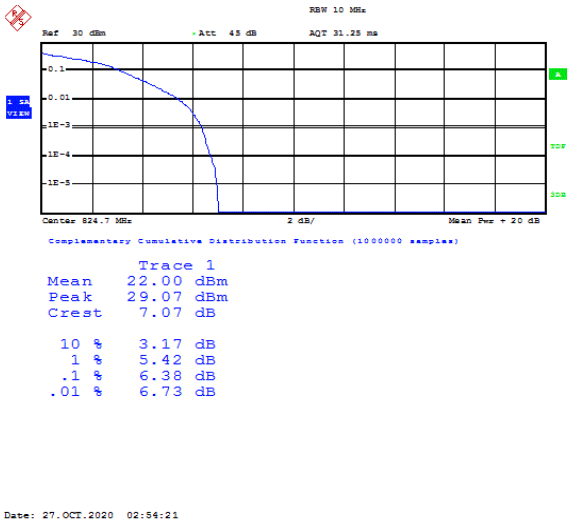


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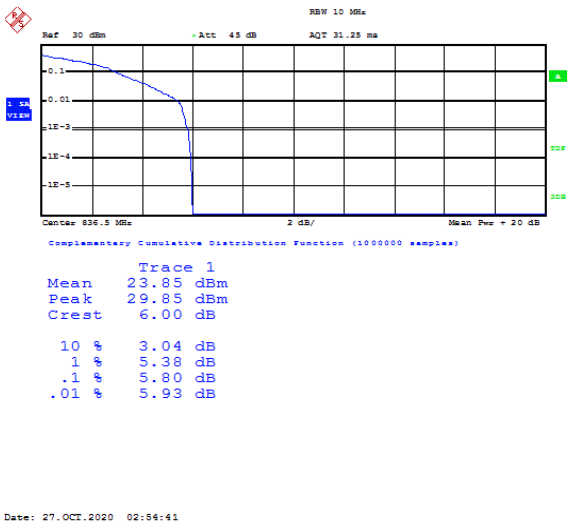


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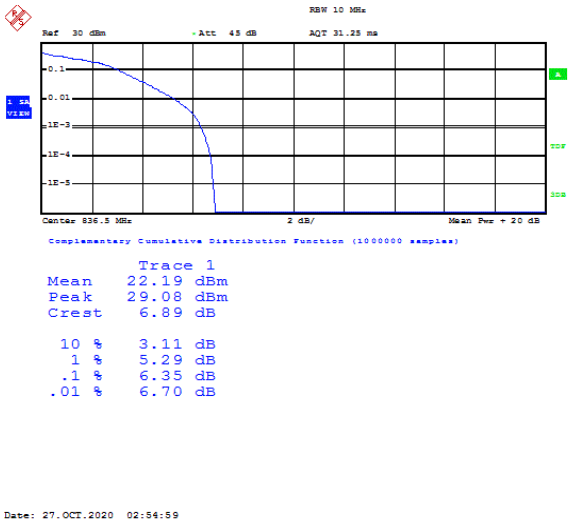


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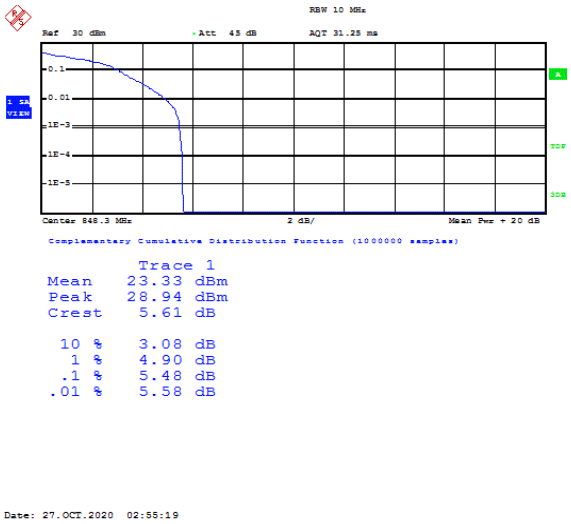


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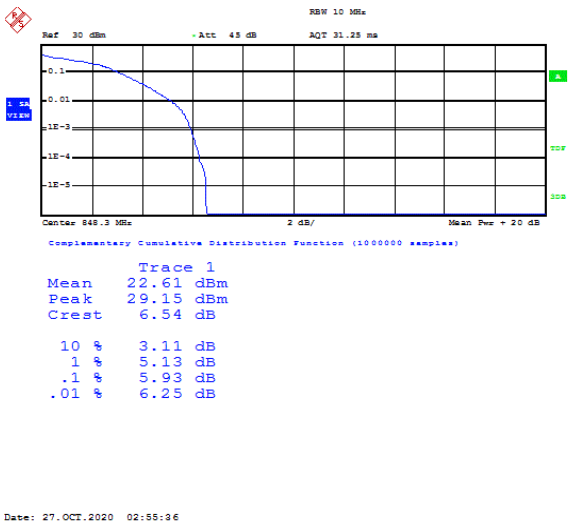


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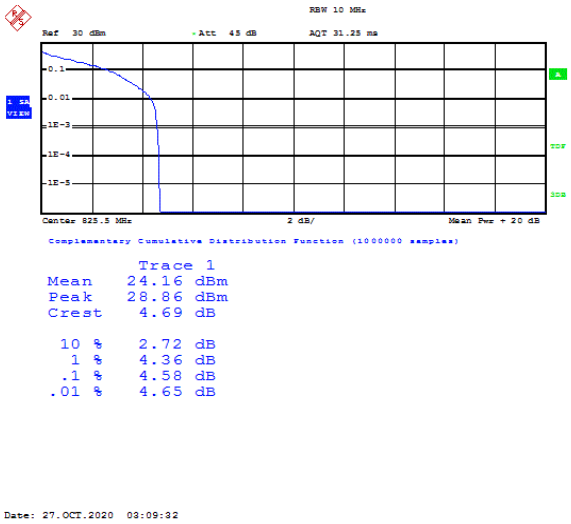


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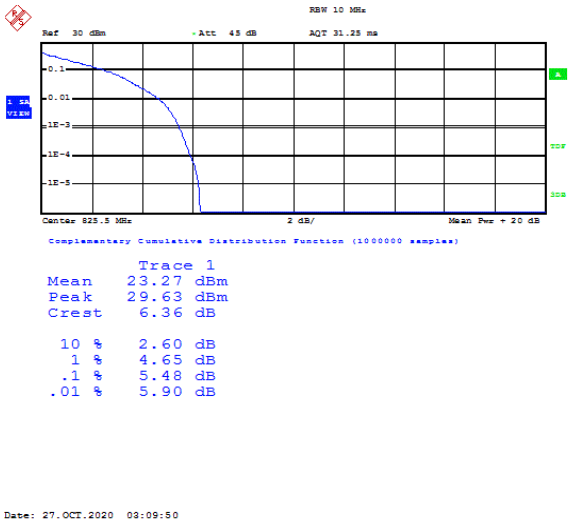


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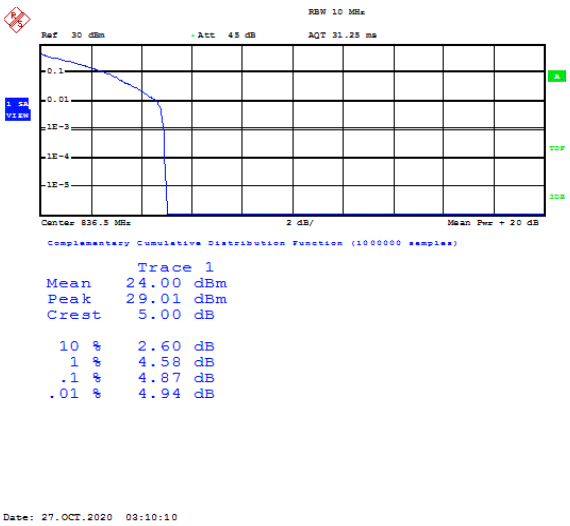


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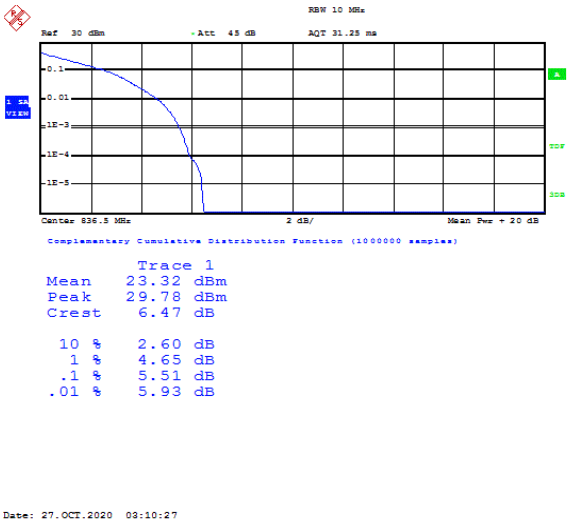


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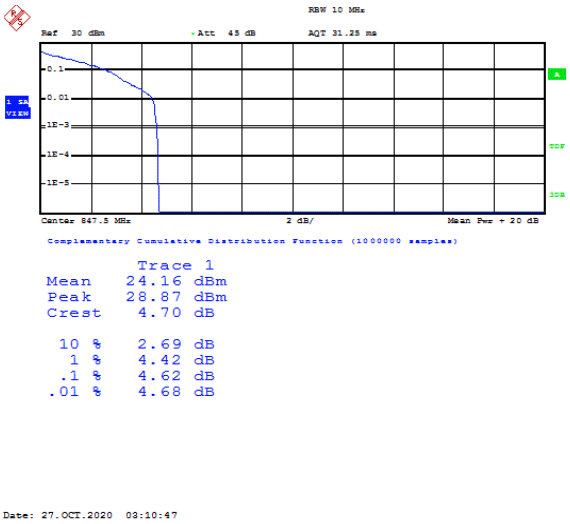


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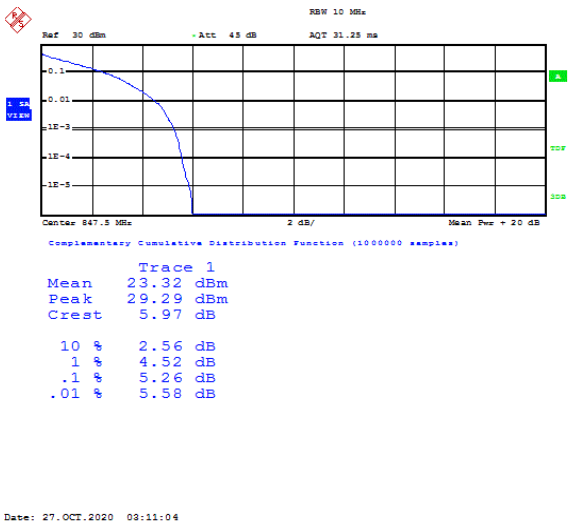


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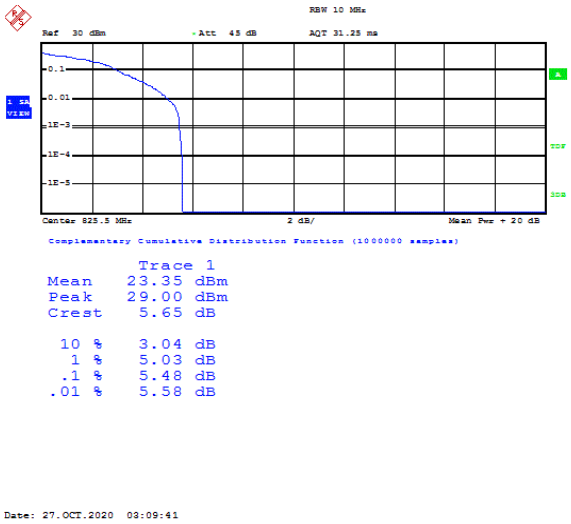


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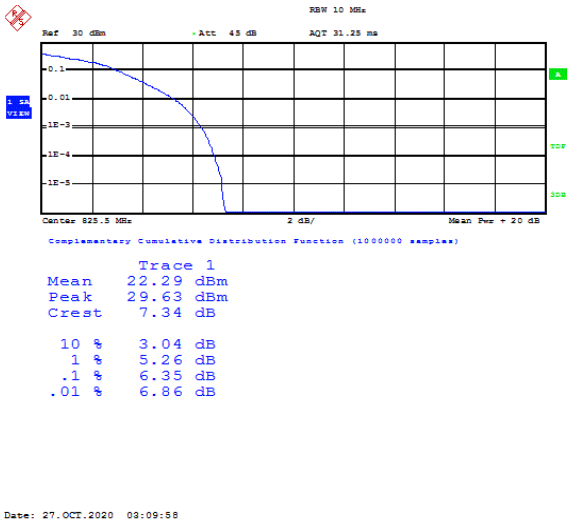


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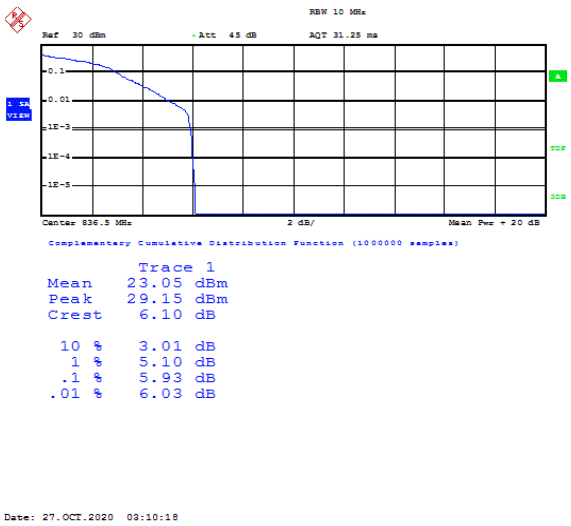


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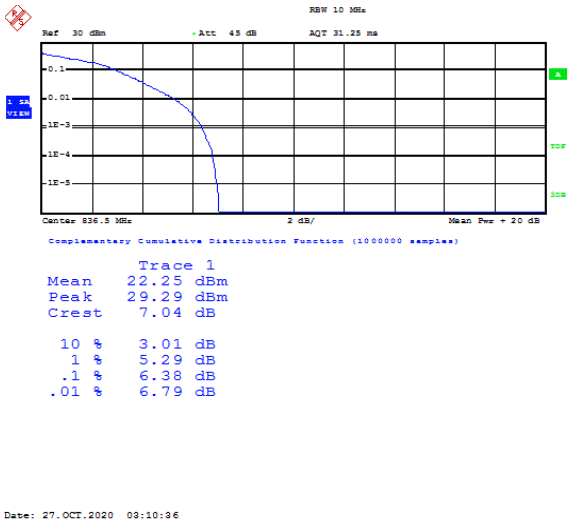


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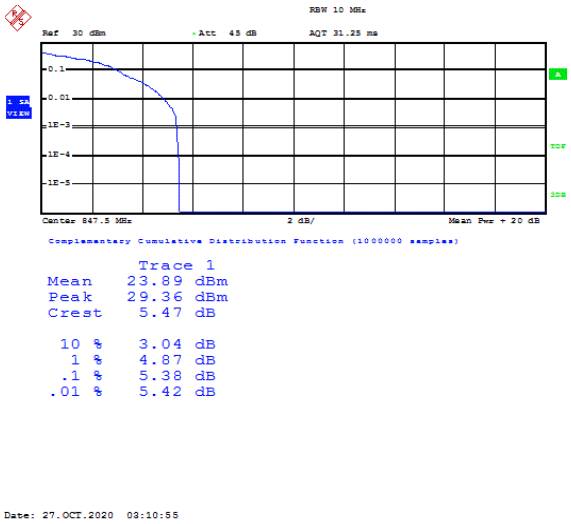


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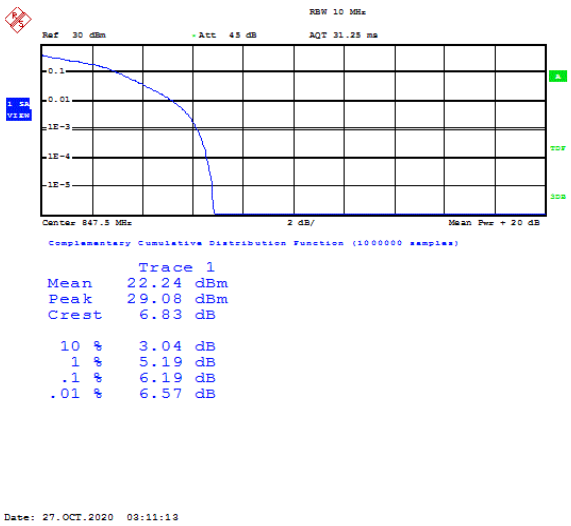


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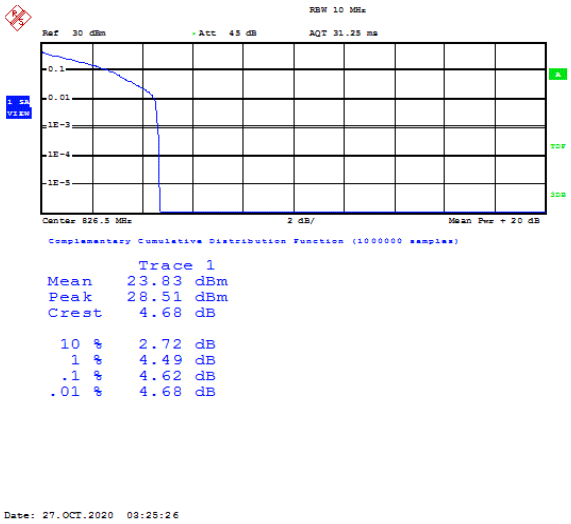


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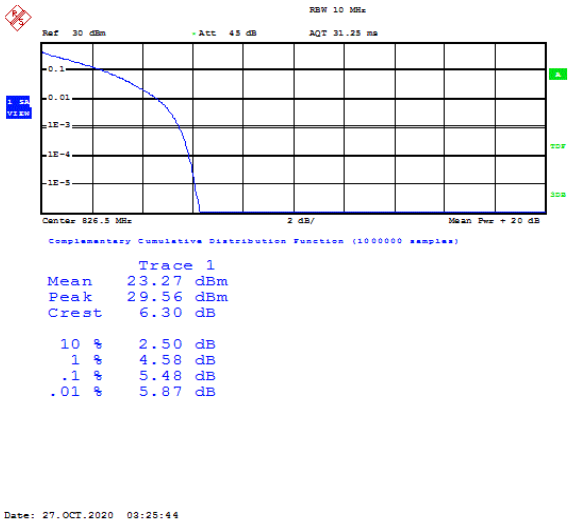


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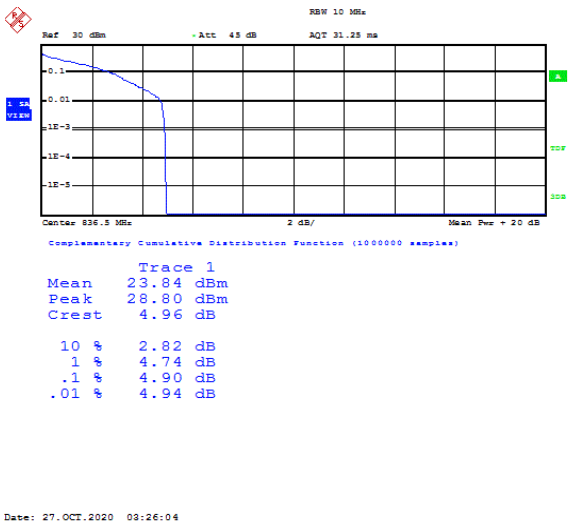


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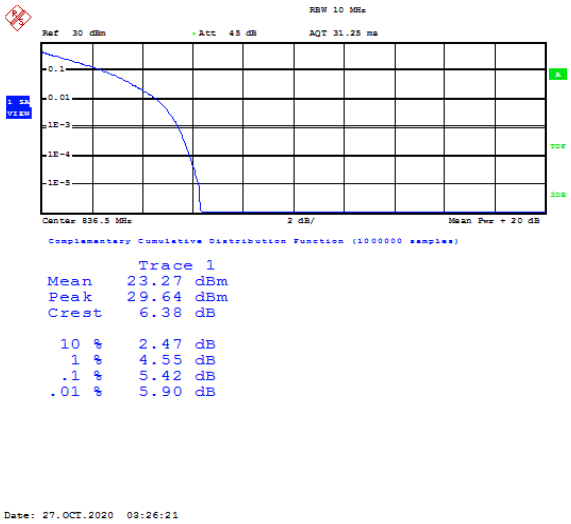


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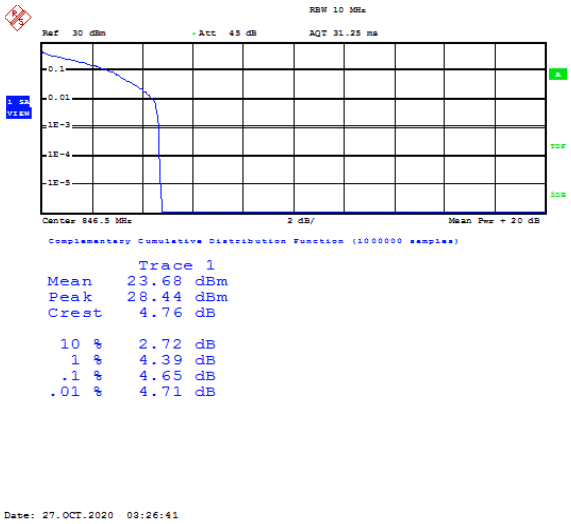


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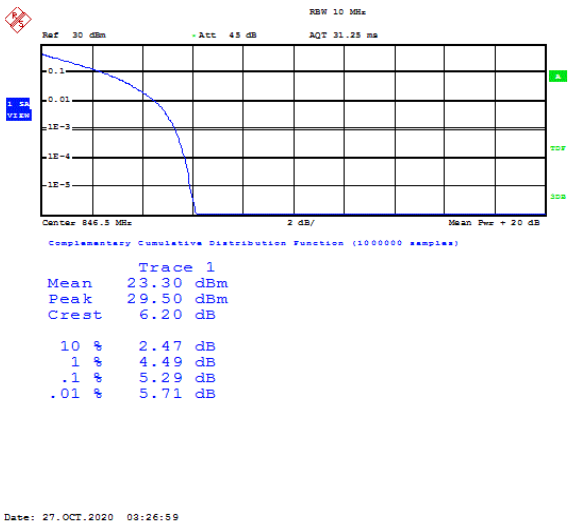


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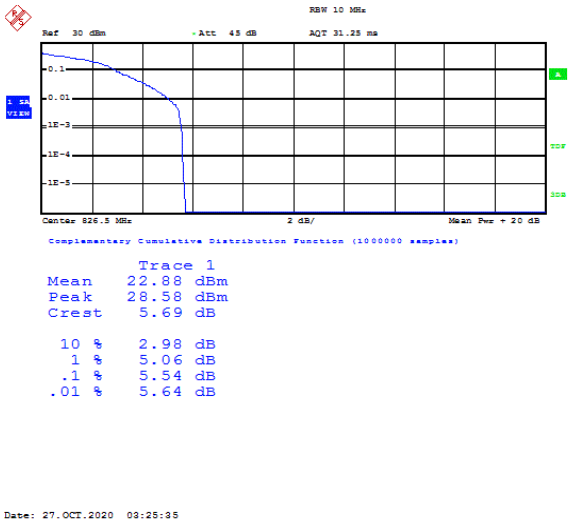
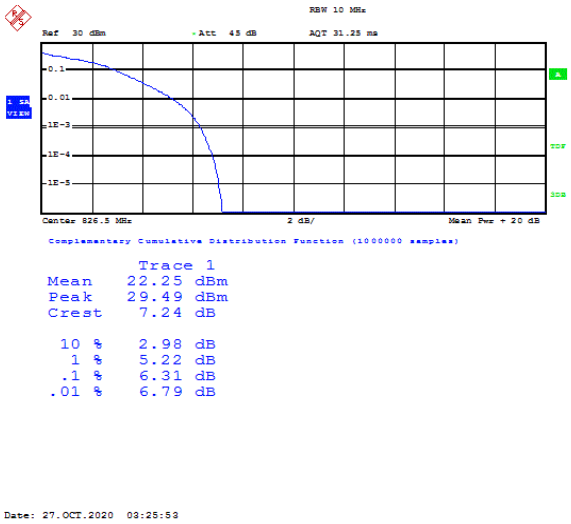



Band5-5MHz-16QAM-20425-25RB#0

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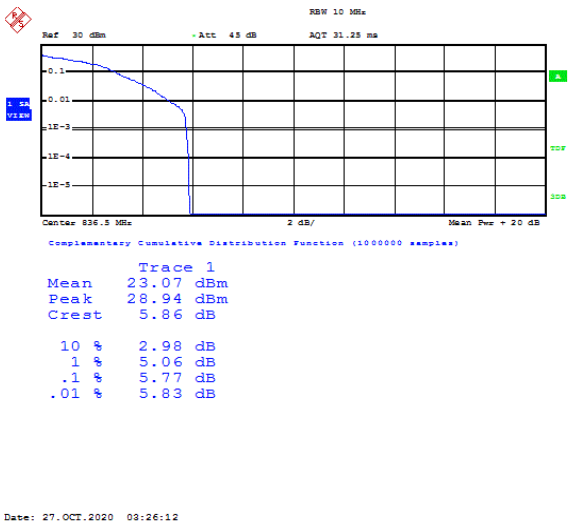


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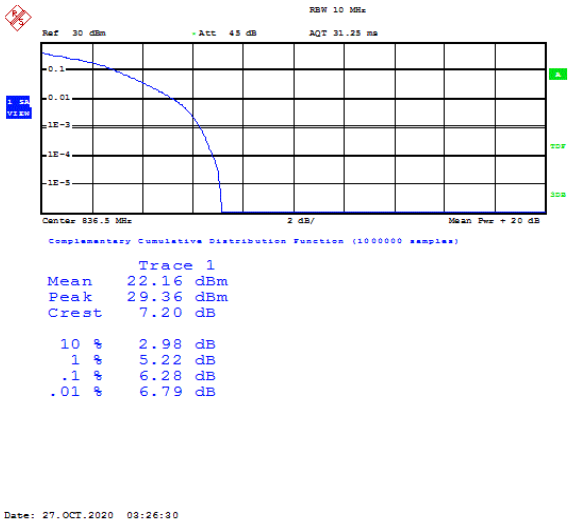


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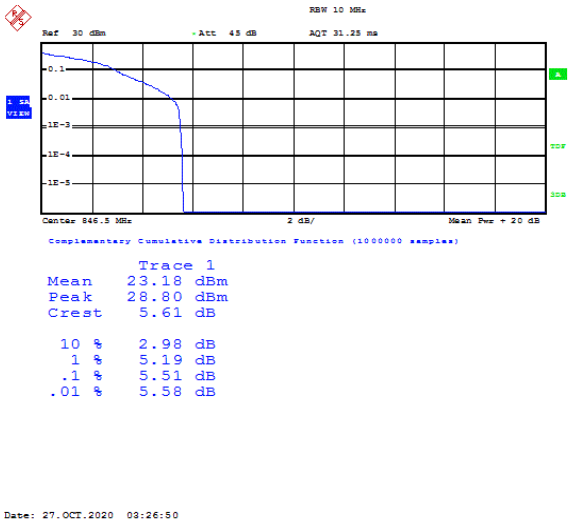


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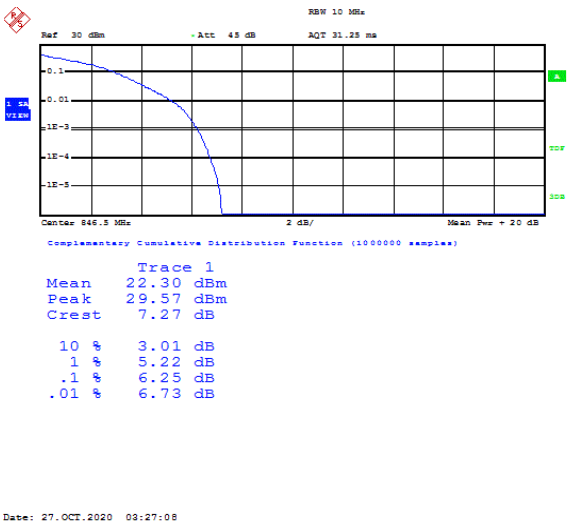


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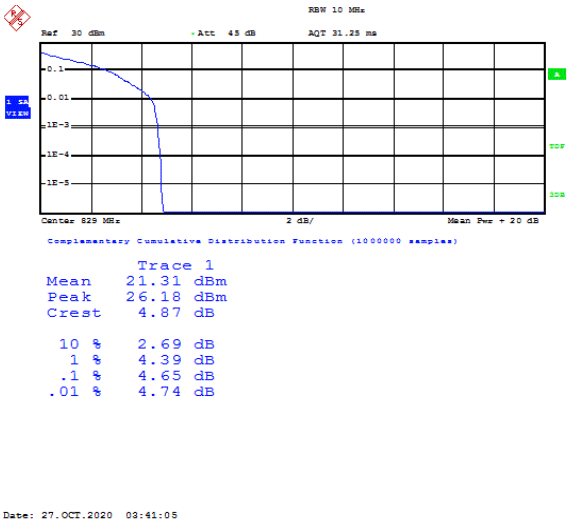


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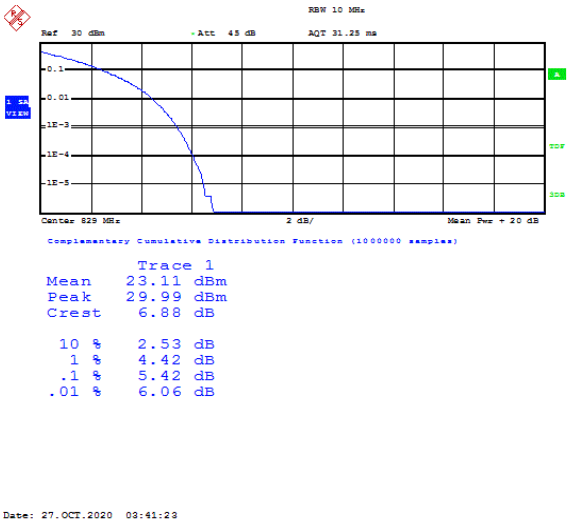


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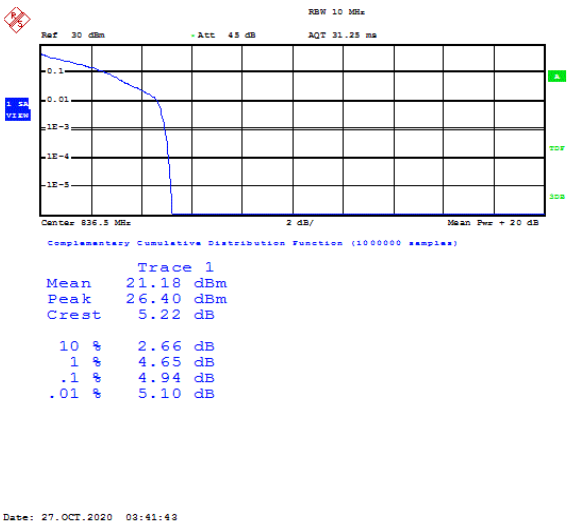


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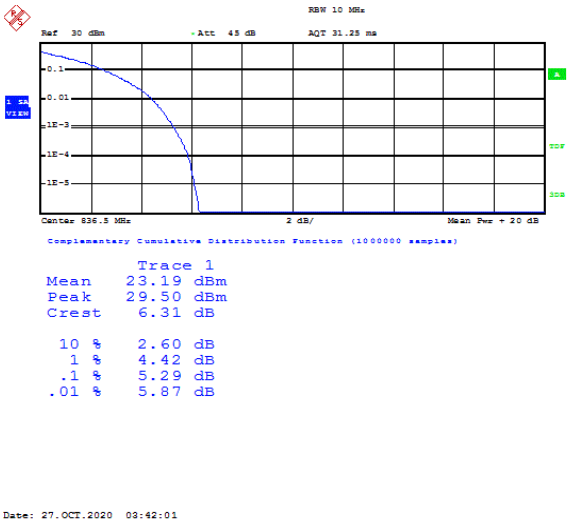


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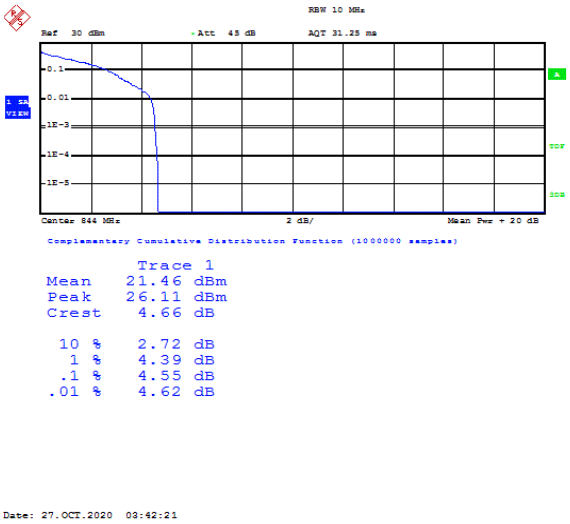


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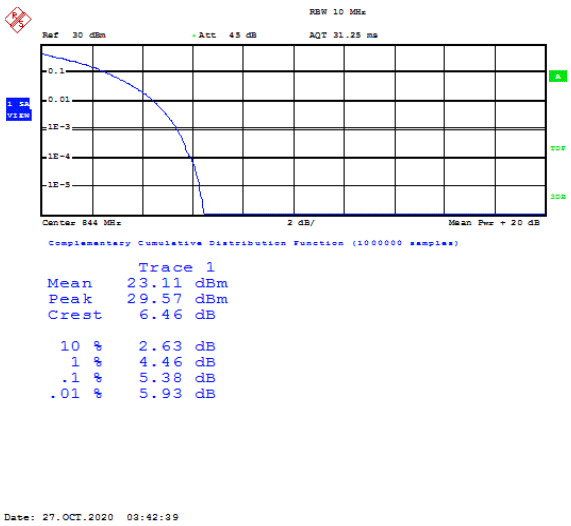


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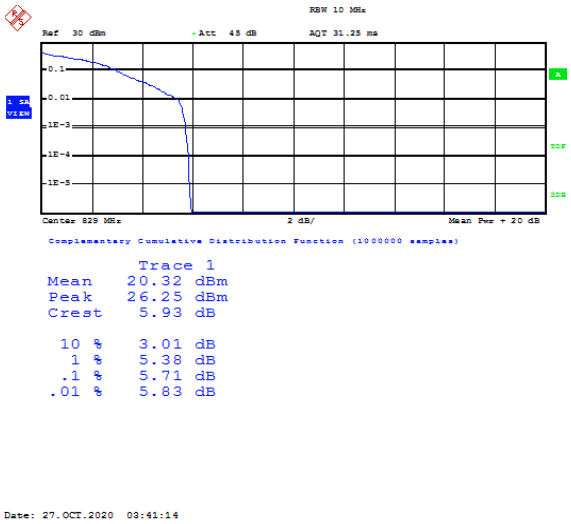


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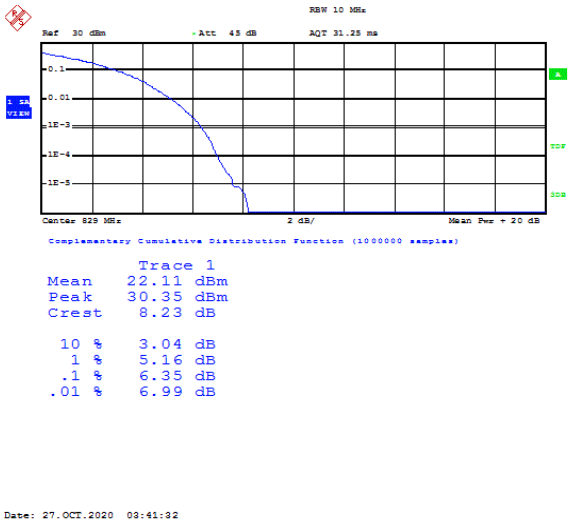


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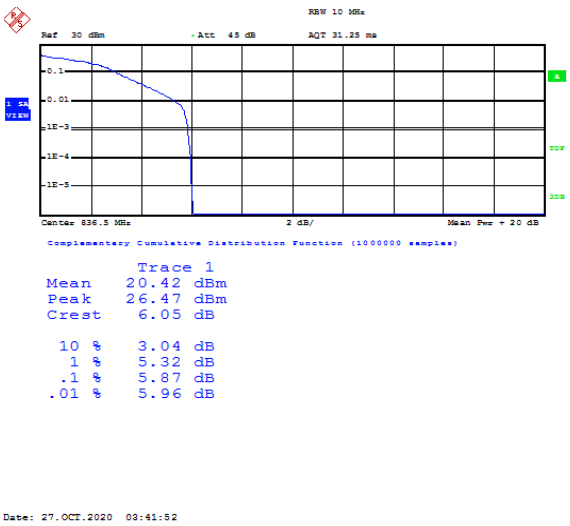


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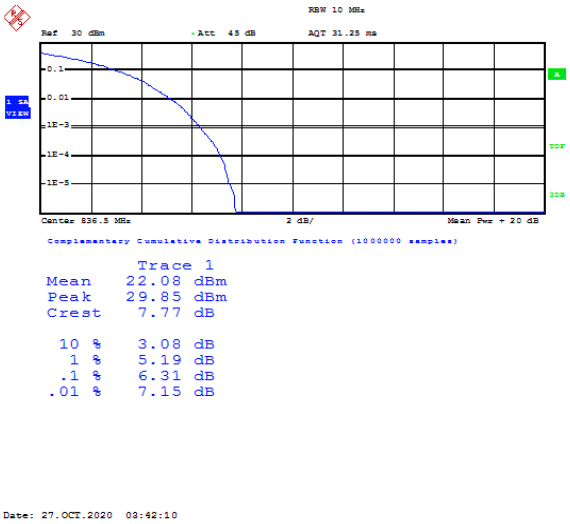
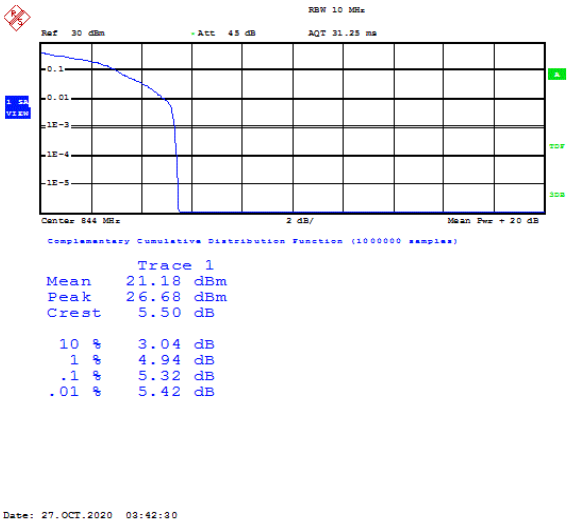
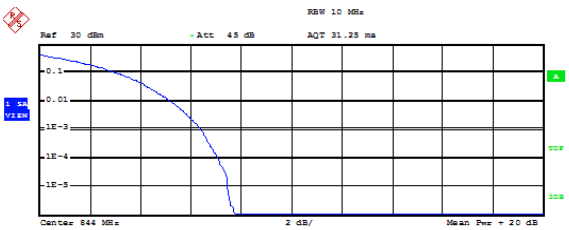



Band5-10MHz-16QAM-20600-1RB#0




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




Complementary Cumulative Distribution Function (1000000 samples)

| | Trace 1 |
|---|---|
| Mean | 22.12 dBm |
| Peak | 29.92 dBm |
| Crest | 7.81 dB |
| 10 % | 3.08 dB |
| 1 % | 5.19 dB |
| .1 % | 6.41 dB |
| .01 % | 7.08 dB |

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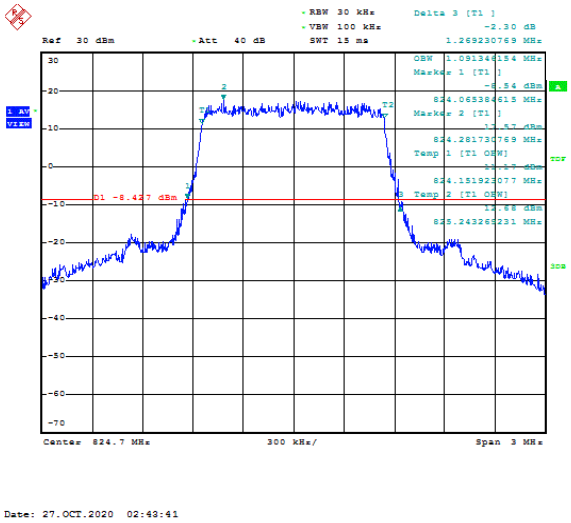
## 1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

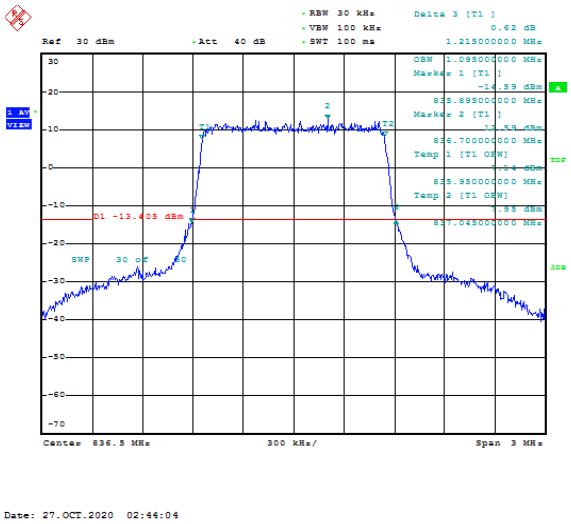
### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.091 | 1.269 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.095 | 1.215 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.095 | 1.225 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.09 | 1.210 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.09 | 1.235 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.095 | 1.230 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.702 | 2.971 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.7 | 2.870 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.7 | 2.850 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.7 | 2.880 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.7 | 2.860 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.7 | 2.860 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.503 | 4.968 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.5 | 4.790 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.5 | 4.770 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.5 | 4.790 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.51 | 4.780 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.51 | 4.780 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 9.038 | 9.776 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 9 | 9.633 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.967 | 9.700 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 8.967 | 9.667 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 9 | 9.633 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.967 | 9.633 | PASS |

## Test Graphs

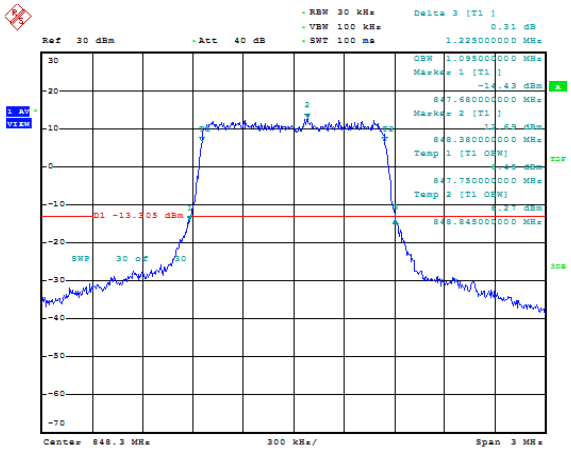
| Band5-1.4MHz-QPSK-20407-6RB#0-1.091 |
|---|
|  |



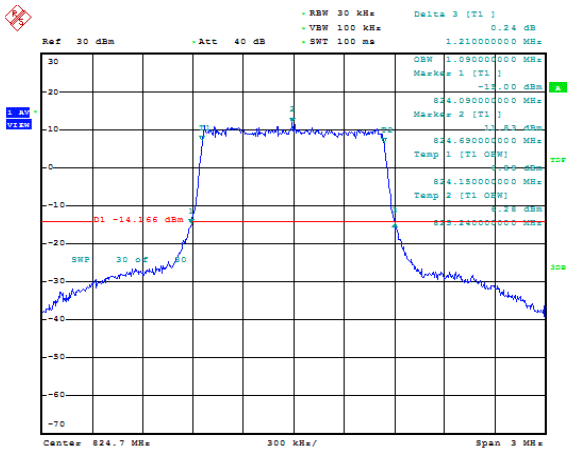
| Band5-1.4MHz-QPSK-20525-6RB#0-1.095 |
|---|
|  |



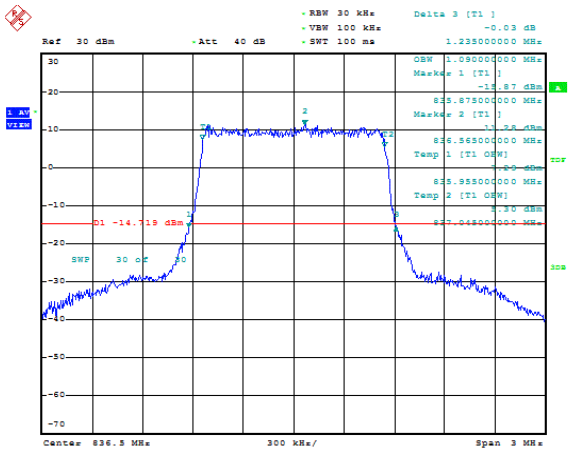
| Band5-1.4MHz-QPSK-20643-6RB#0-1.095 |
|---|




Band5-1.4MHz-16QAM-20407-6RB#0-1.09




Band5-1.4MHz-16QAM-20525-6RB#0-1.09

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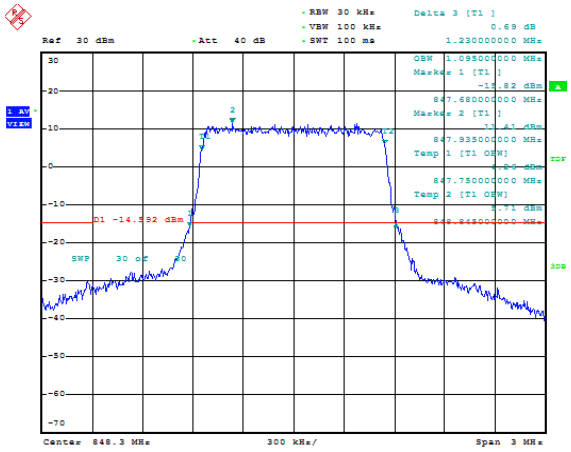


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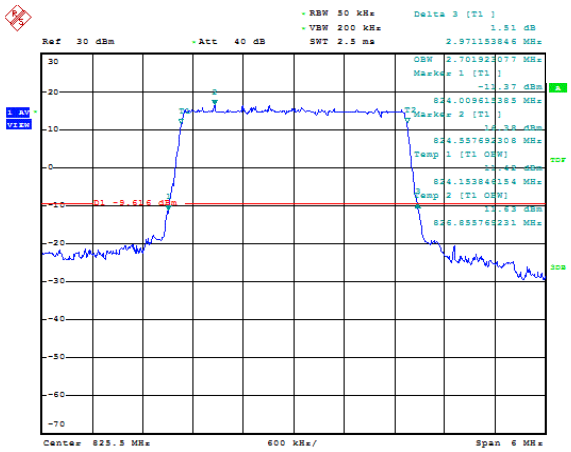
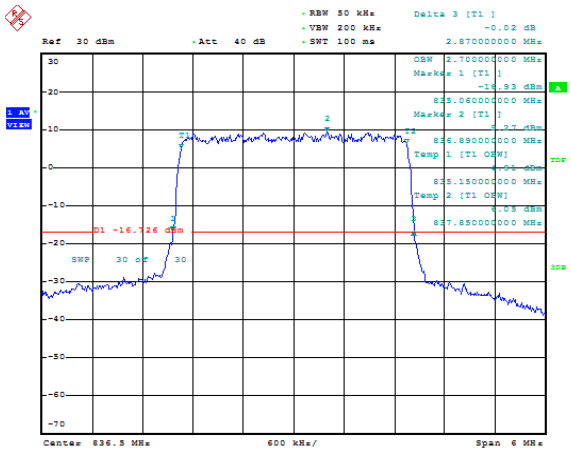
Band5-3MHz-QPSK-20415-15RB#0-2.702



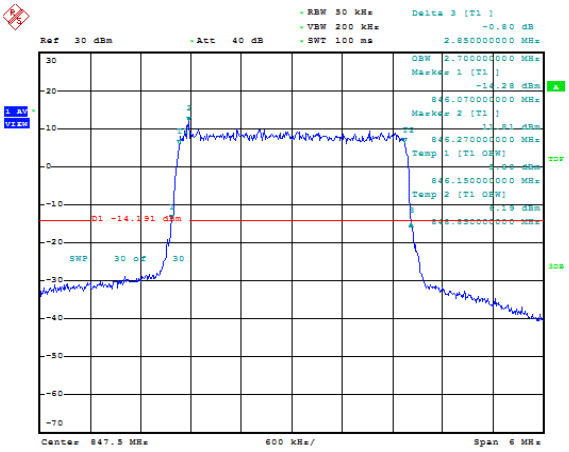

Date: 27.OCT.2020 03:00:49

Band5-3MHz-QPSK-20525-15RB#0-2.7

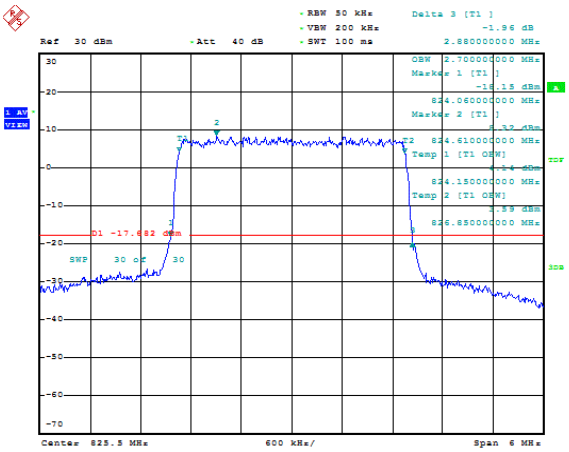



Date: 27.OCT.2020 03:01:12

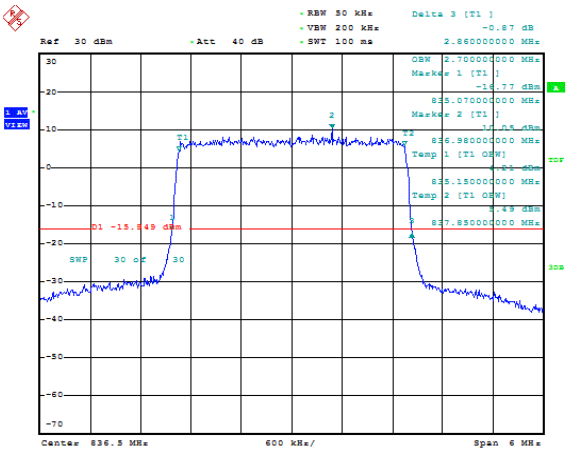
Band5-3MHz-QPSK-20635-15RB#0-2.7



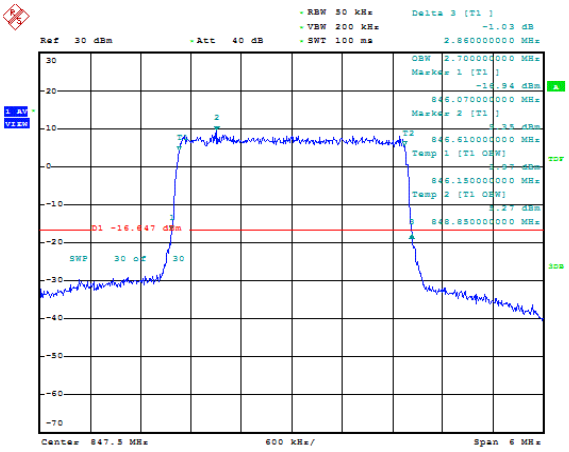

Band5-3MHz-16QAM-20415-15RB#0-2.7




Band5-3MHz-16QAM-20525-15RB#0-2.7




Band5-3MHz-16QAM-20635-15RB#0-2.7

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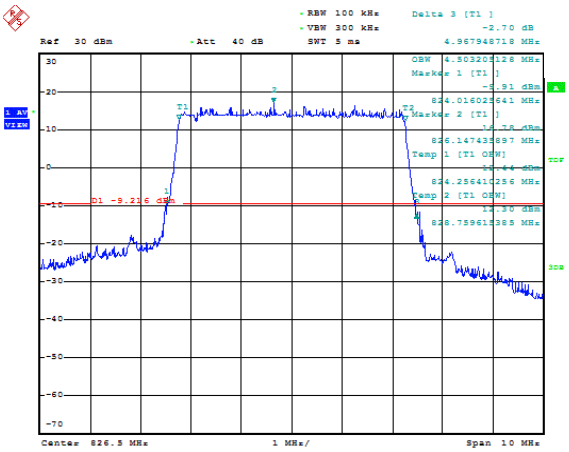
Band5-5MHz-QPSK-20425-25RB#0-4.503

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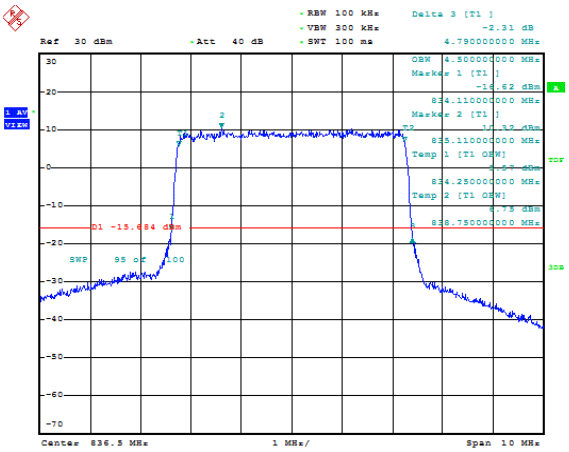
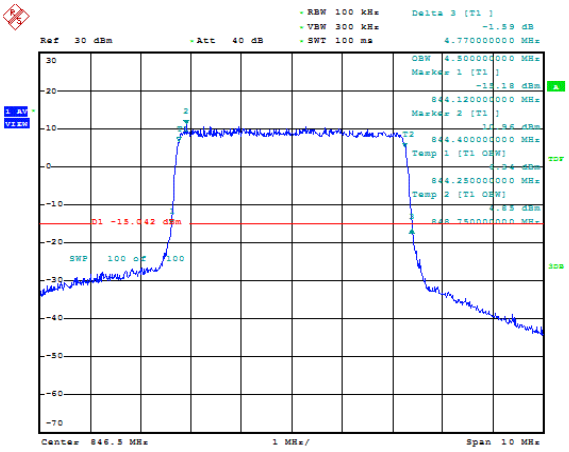
Band5-5MHz-QPSK-20525-25RB#0-4.5




Date: 27.OCT.2020 03:16:40

Band5-5MHz-QPSK-20625-25RB#0-4.5

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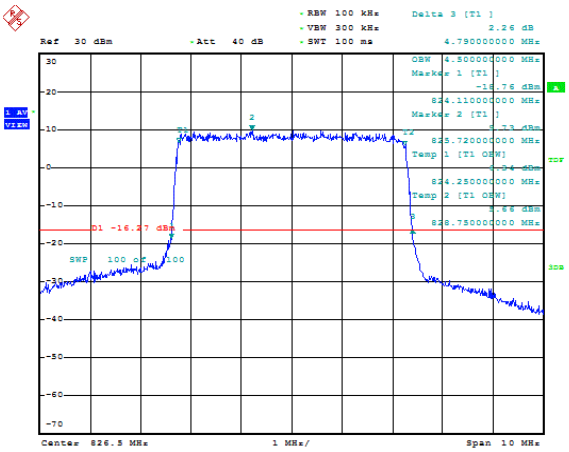


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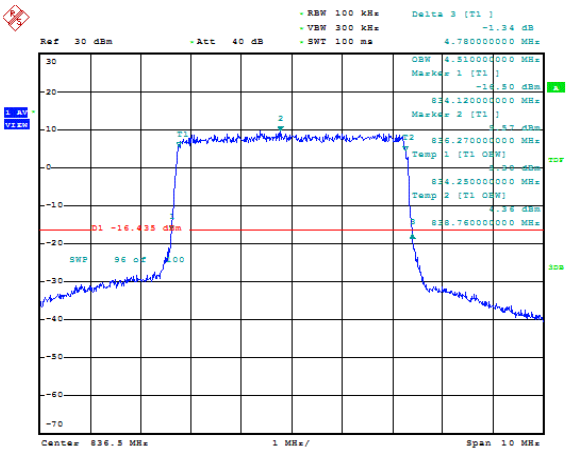


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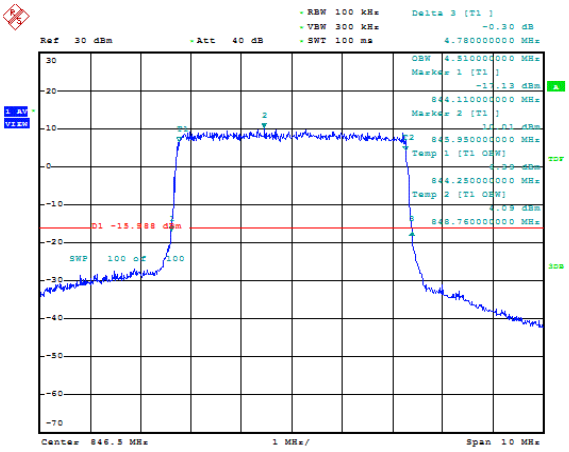
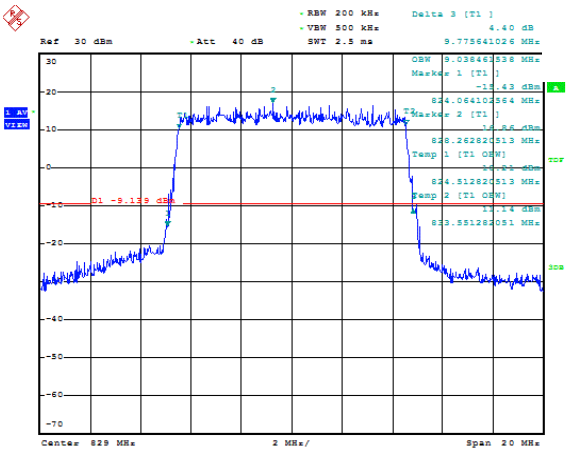



Band5-10MHz-QPSK-20450-50RB#0-9.038

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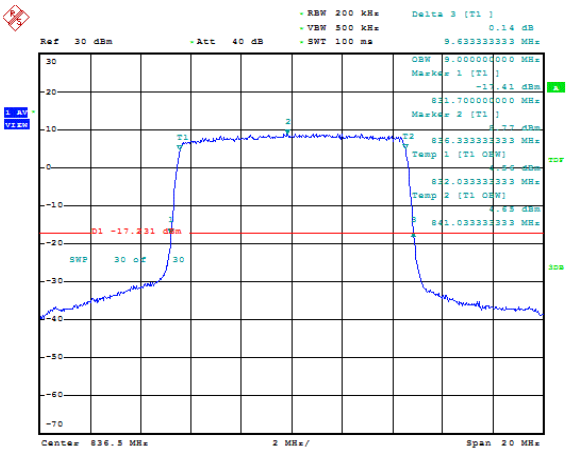
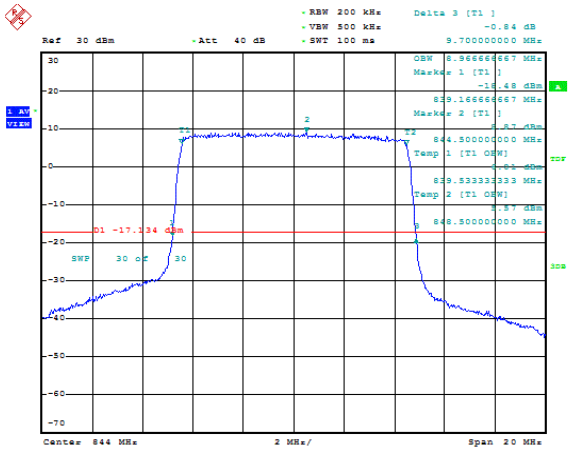
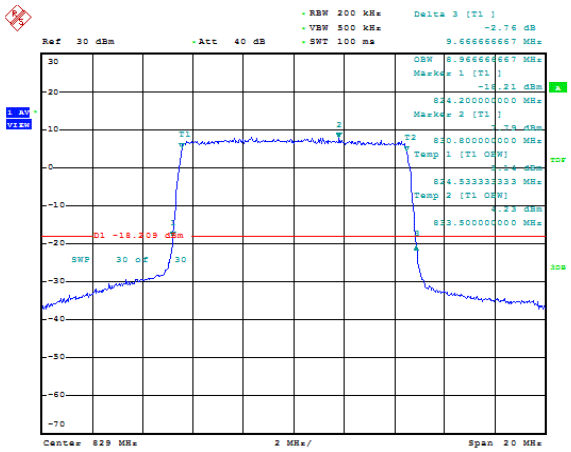


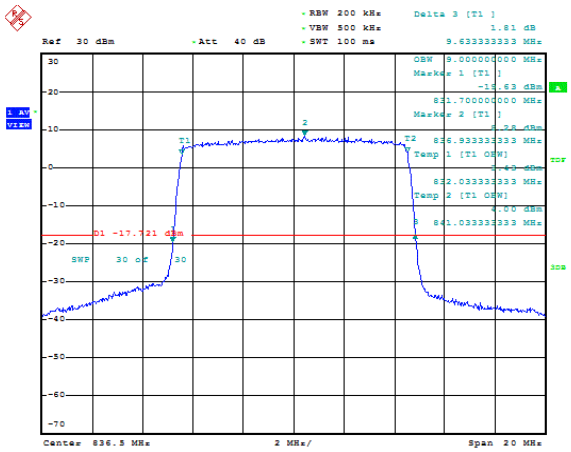

Band5-10MHz-QPSK-20600-50RB#0-8.967



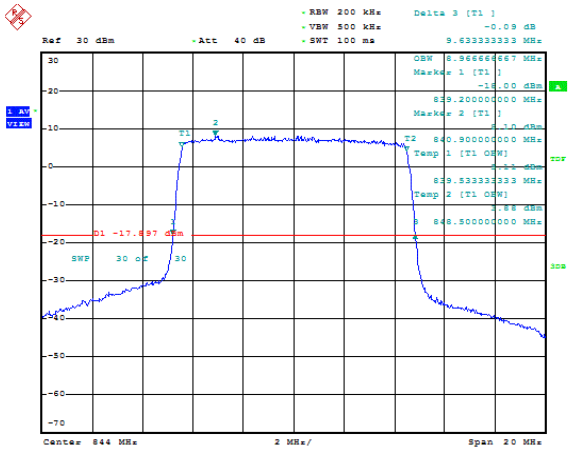

Band5-10MHz-16QAM-20450-50RB#0-8.967




Band5-10MHz-16QAM-20525-50RB#0-9




Band5-10MHz-16QAM-20600-50RB#0-8.967

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## 1.4. Appendix D: Band Edge

### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | -23.34 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | -45.54 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | -26.14 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | -44.89 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | -23.03 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | -27.61 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | -22.99 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | -47.92 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | -27.47 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | -47.10 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | -24.95 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | -28.99 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | -21.21 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | -43.64 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | -25.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | -45.25 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | -20.01 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | -28.69 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | -22.12 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | -44.87 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | -26.87 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | -45.58 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | -20.64 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | -29.11 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | -22.88 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | -49.48 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | -25.38 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | -49.71 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | -22.07 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | -28.90 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | -24.97 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | -49.60 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | -27.08 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | -49.88 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | -22.94 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | -29.91 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | -16.92 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | -48.00 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | -26.06 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | -48.55 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | -13.91 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | -28.93 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | -17.76 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | -48.47 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | -27.61 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | -48.98 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | -14.29 | PASS |
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## Test Graphs

| Band5-1.4MHz-QPSK-20407-1RB#0 |
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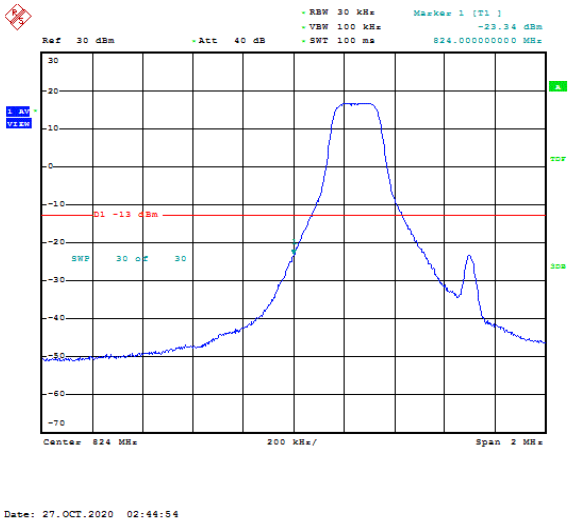
|  |



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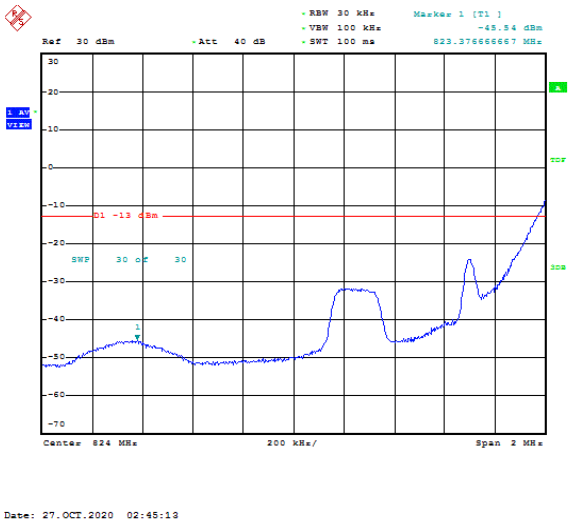
|  |



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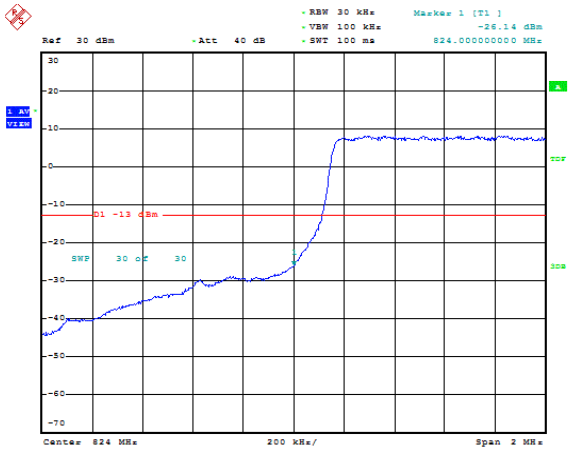


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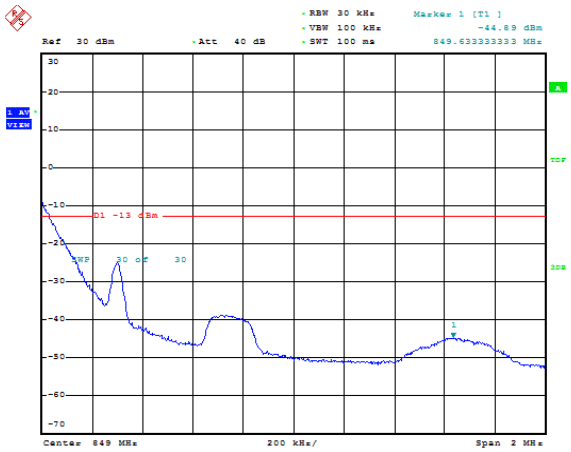


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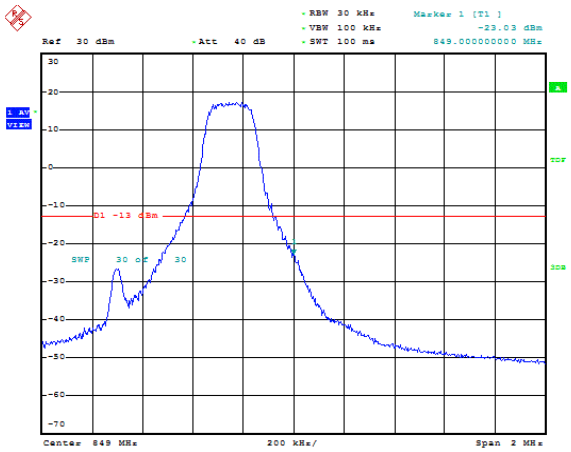


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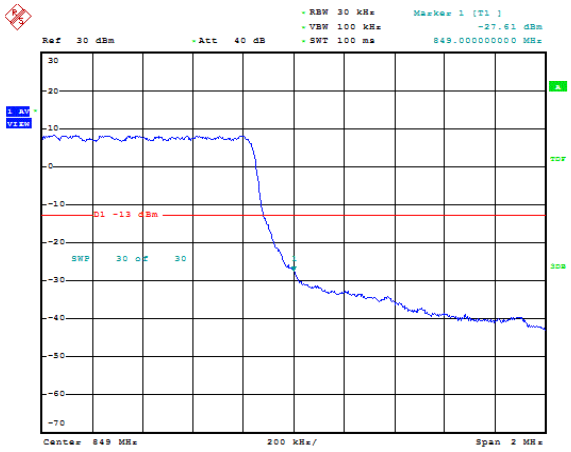


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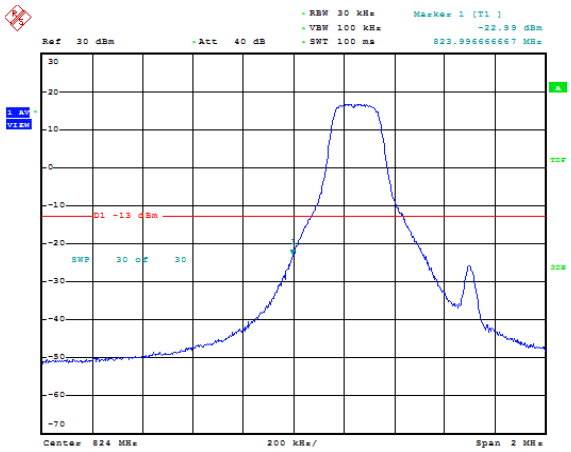


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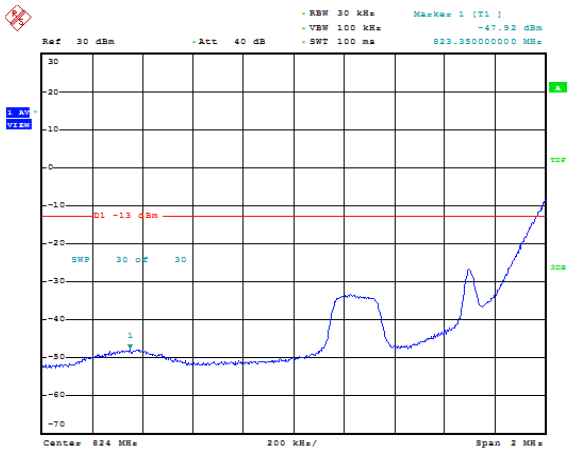


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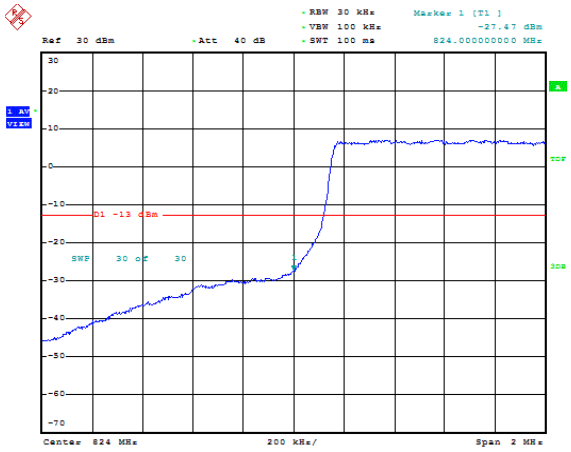


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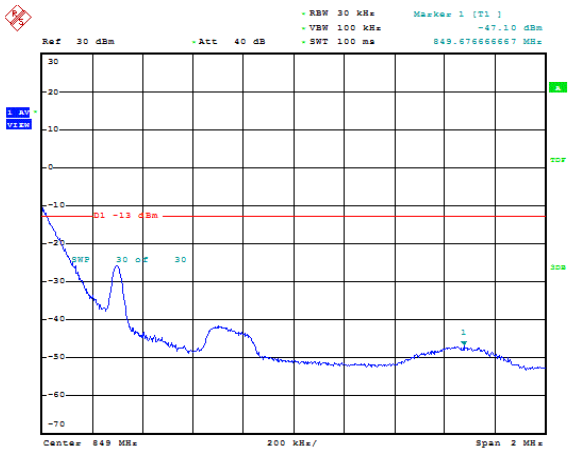


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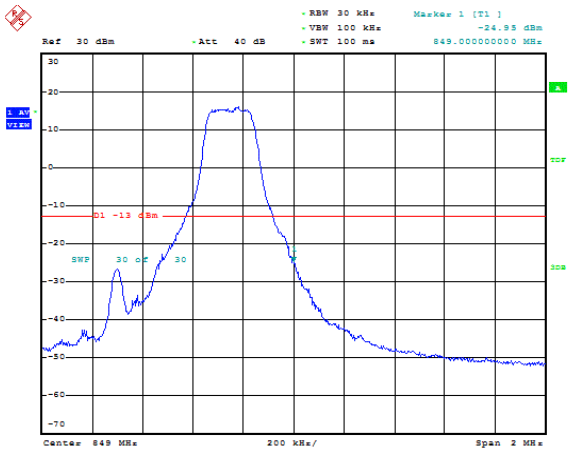


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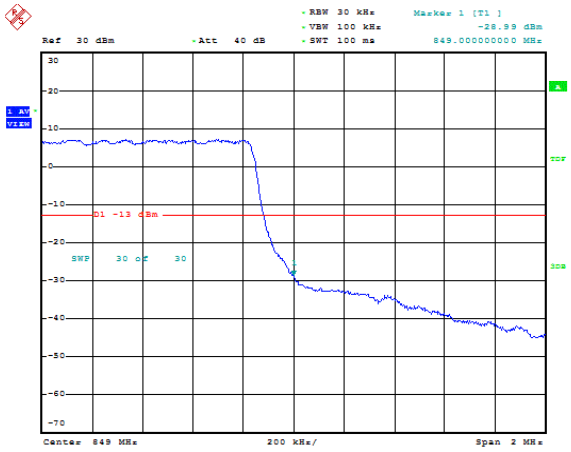


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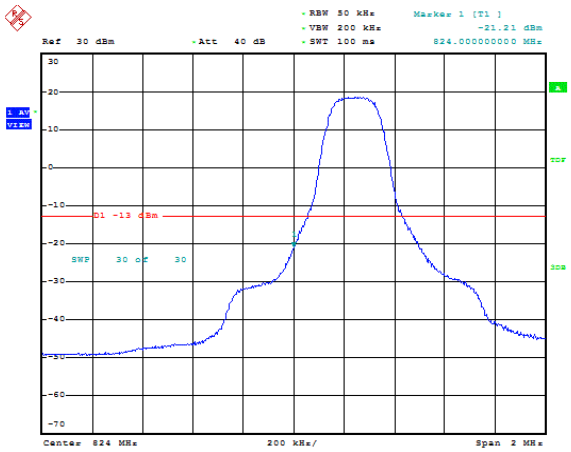


Date: 27.OCT.2020 03:02:01

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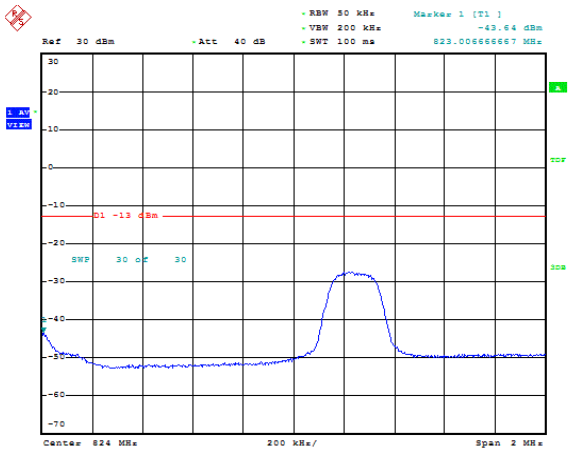


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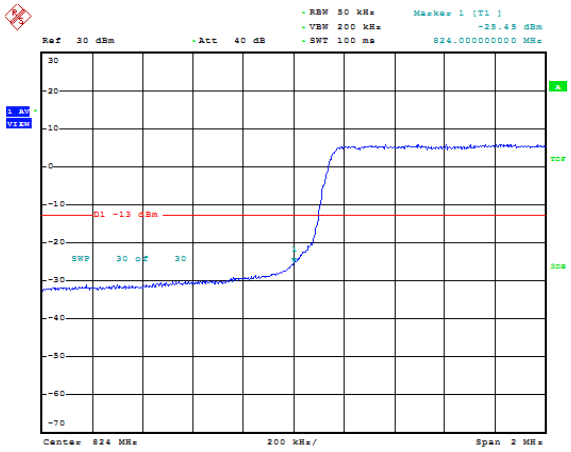


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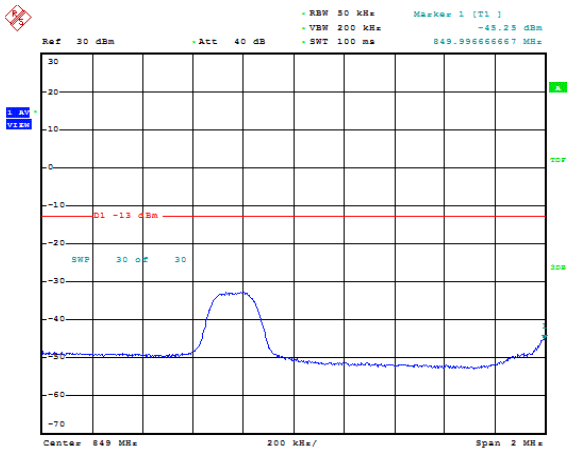


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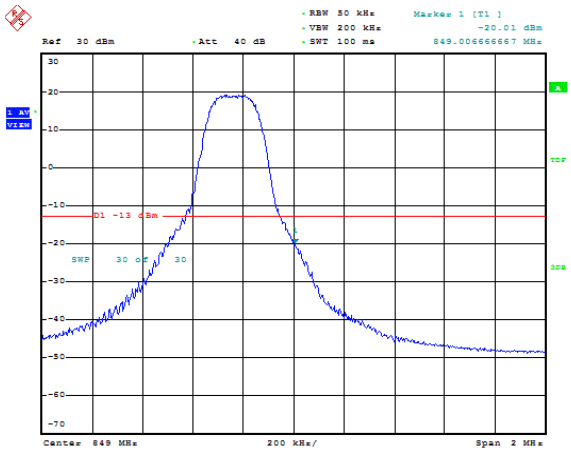


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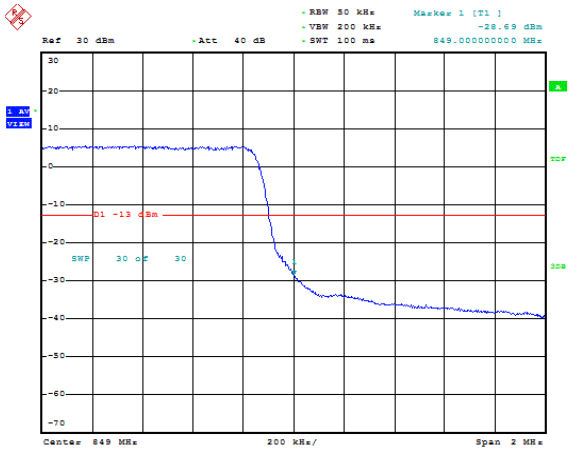


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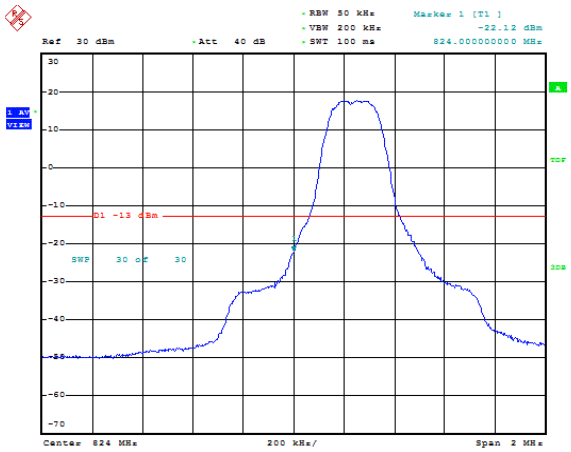


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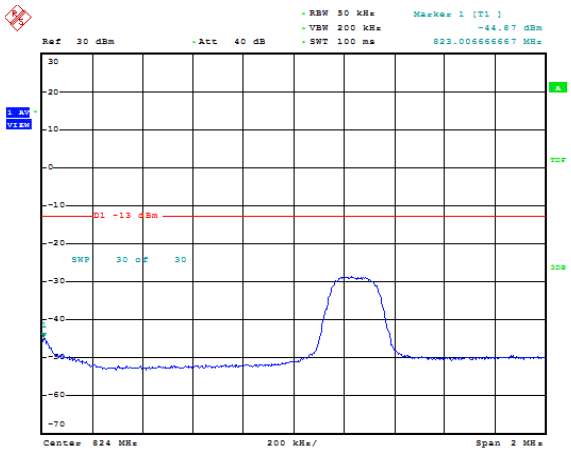


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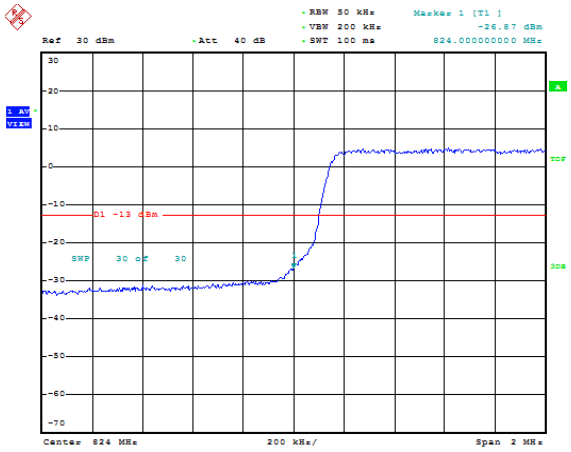


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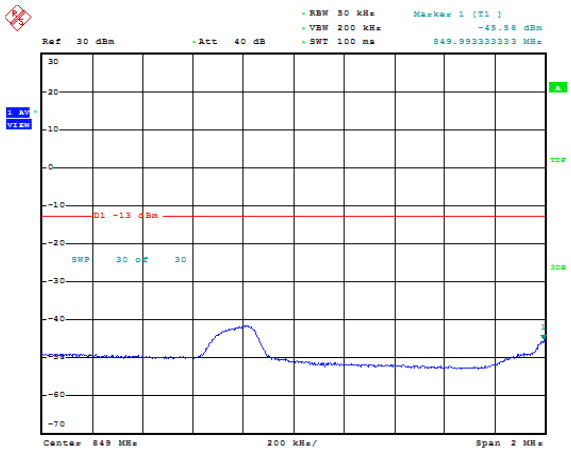


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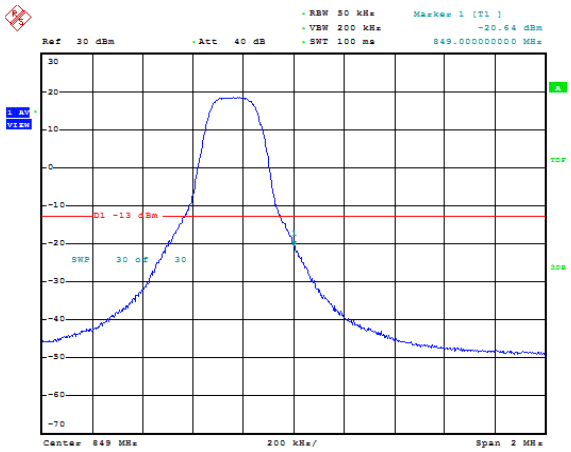


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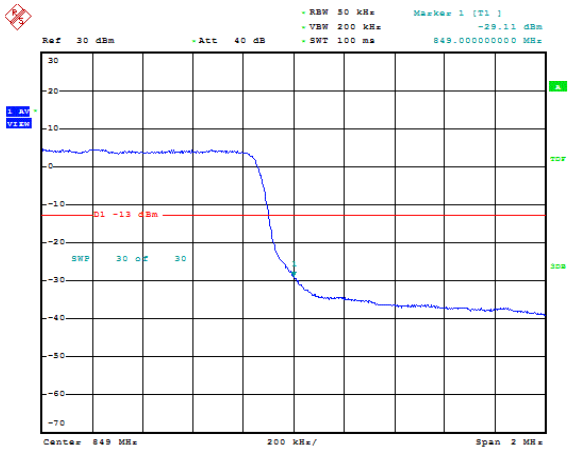


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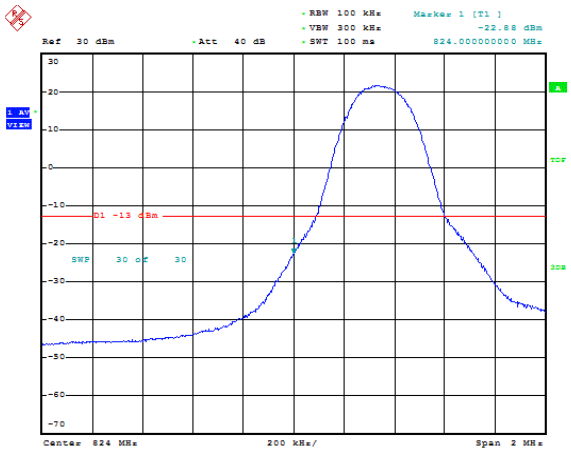


Date: 27.OCT.2020 03:17:51

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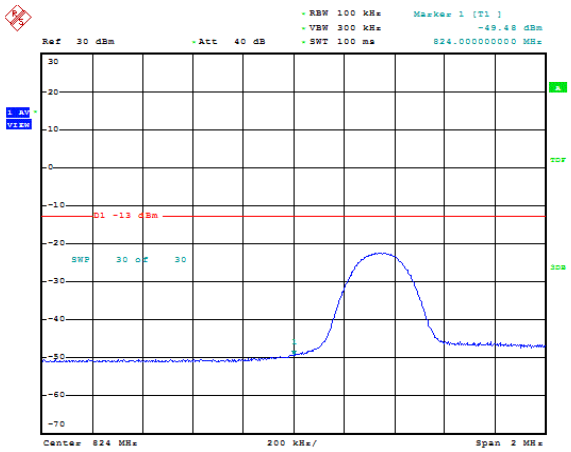


Date: 27.OCT.2020 03:18:10

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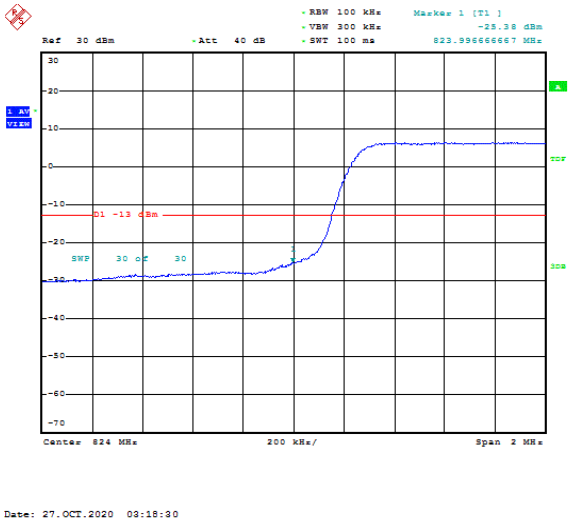


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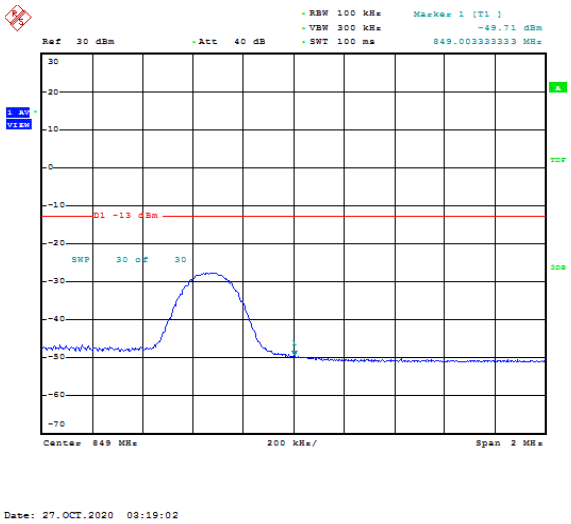


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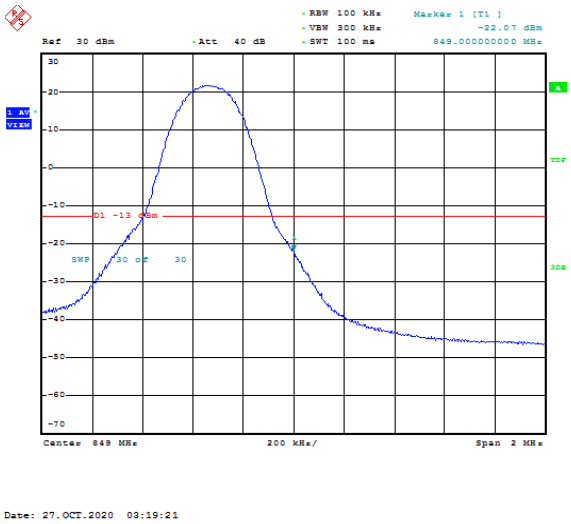


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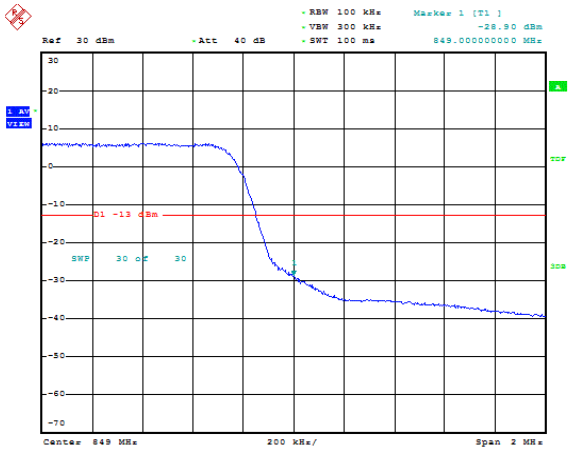


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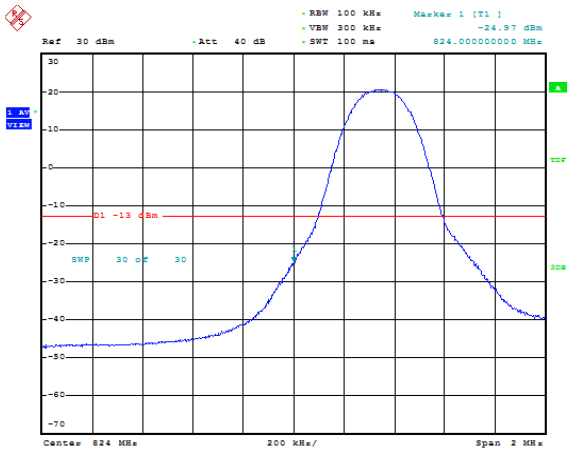
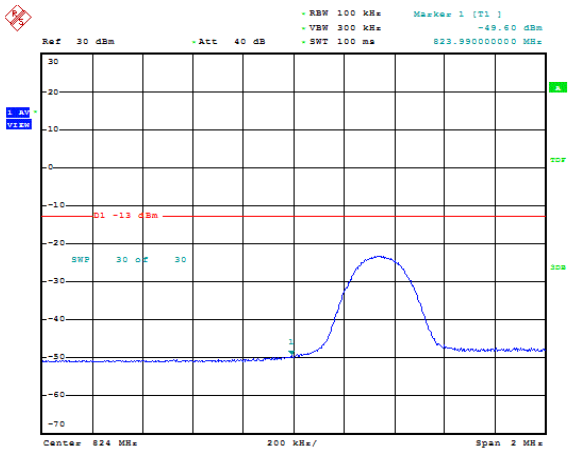



Date: 27.OCT.2020 03:18:01

Band5-5MHz-16QAM-20425-1RB#24

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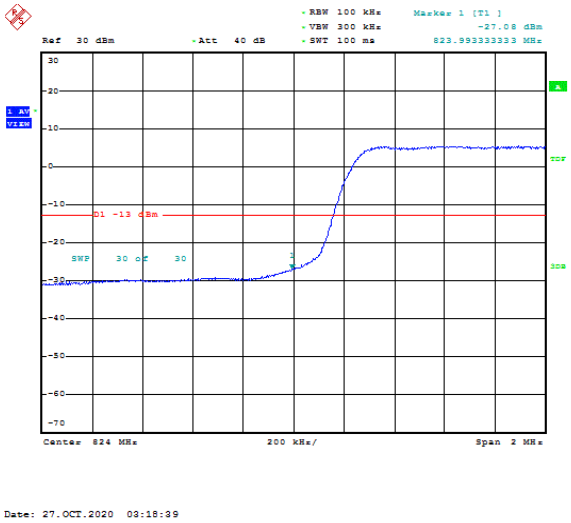


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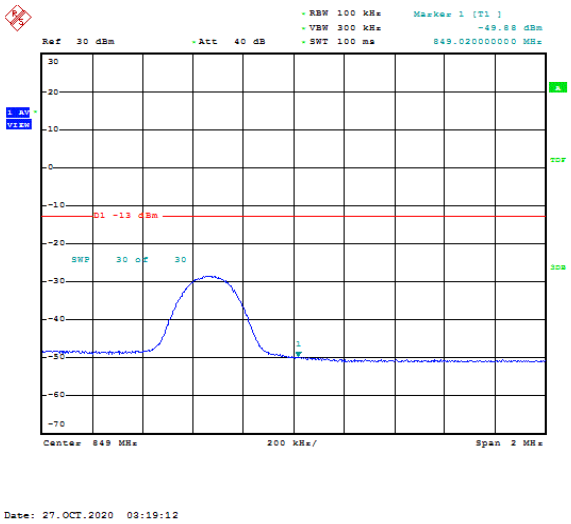


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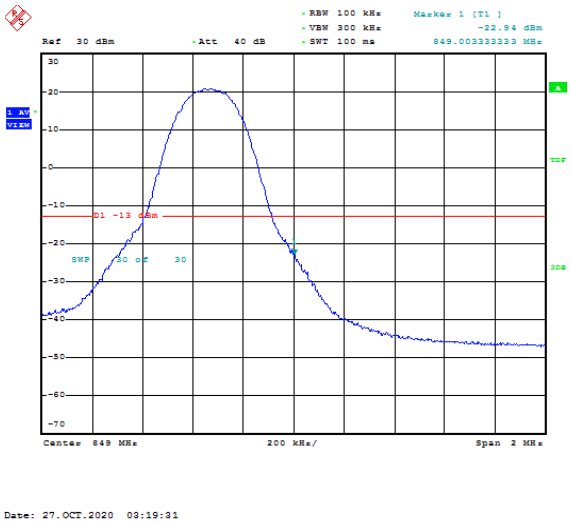
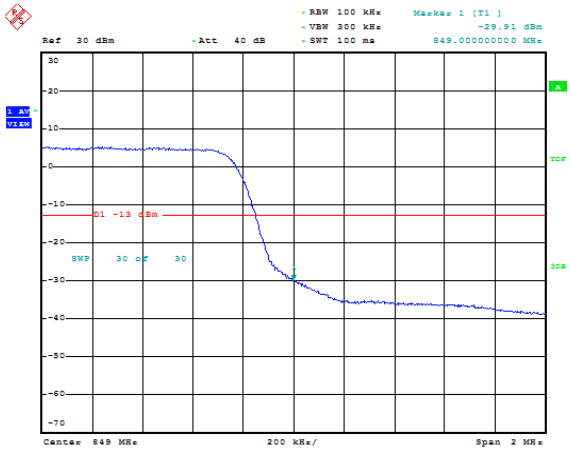



Band5-5MHz-16QAM-20625-25RB#0

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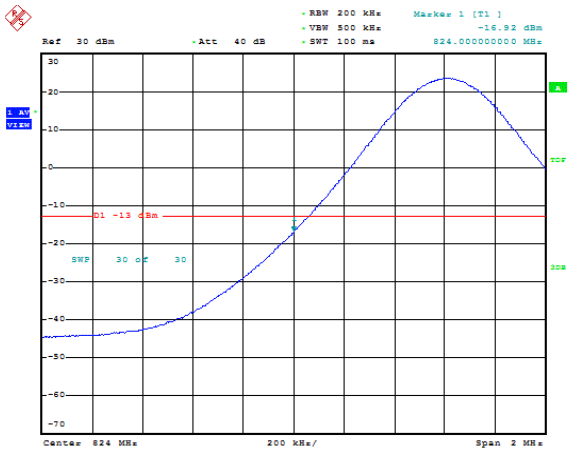
Band5-10MHz-QPSK-20450-1RB#0




Date: 27.OCT.2020 03:33:15

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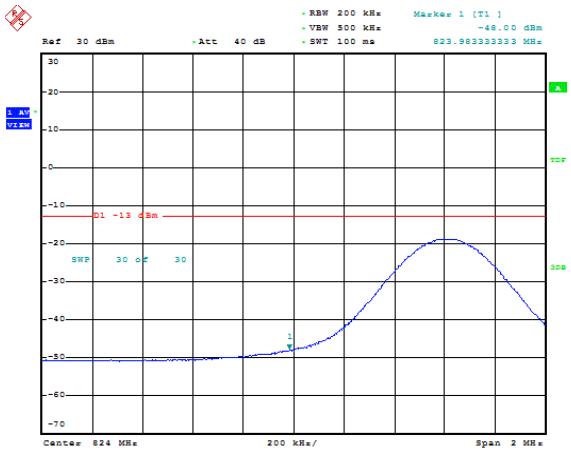


Date: 27.OCT.2020 03:33:34

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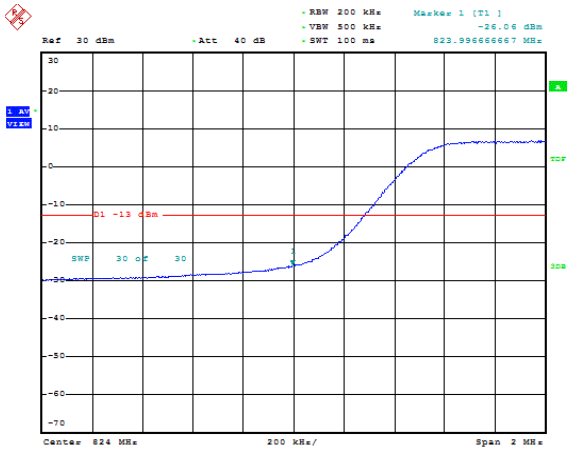


Date: 27.OCT.2020 03:33:54

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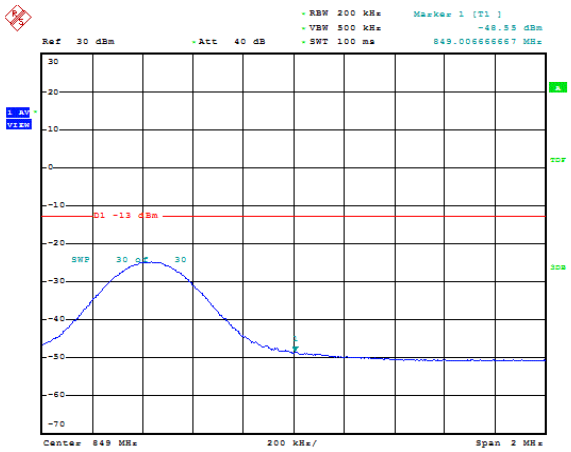
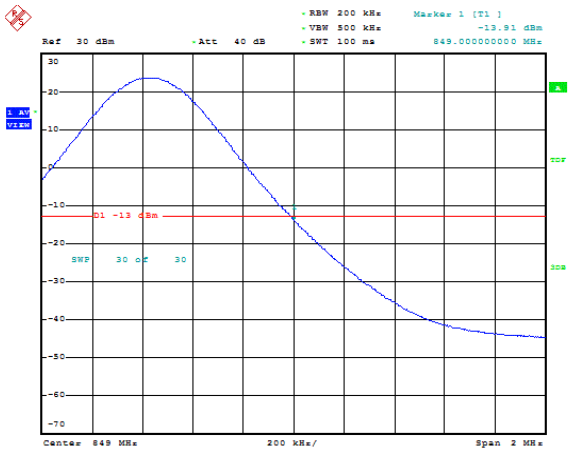


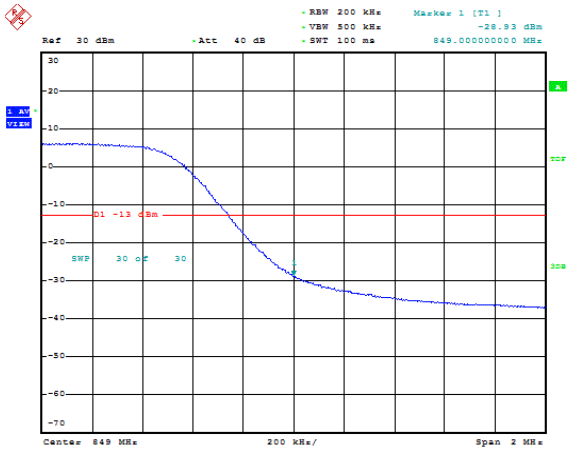

Date: 27.OCT.2020 03:34:27

Band5-10MHz-QPSK-20600-1RB#49



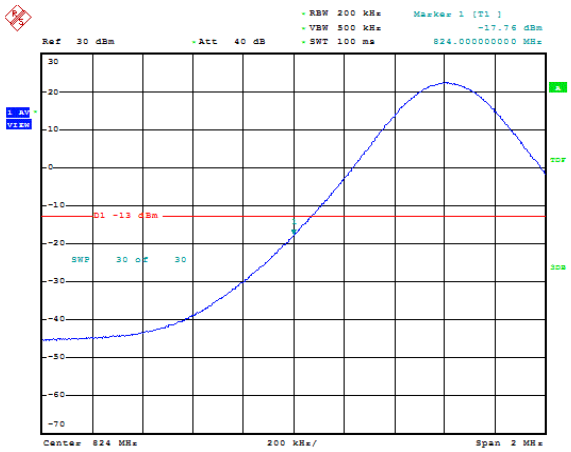

Date: 27.OCT.2020 03:34:46

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



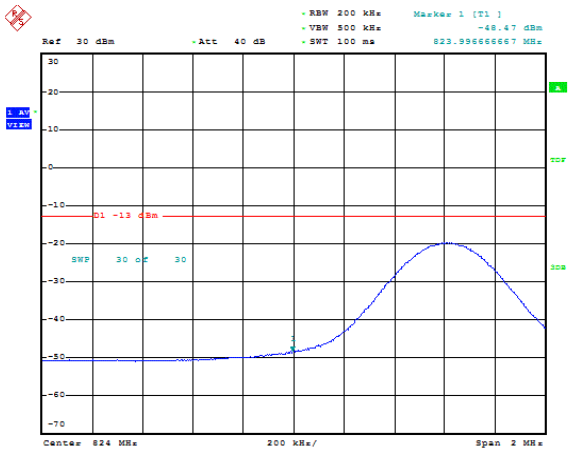

Date: 27.OCT.2020 03:35:05

Band5-10MHz-16QAM-20450-1RB#0



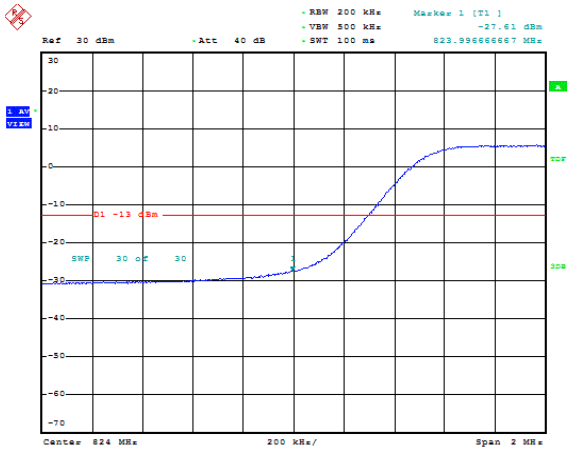

Date: 27.OCT.2020 03:33:25

Band5-10MHz-16QAM-20450-1RB#49



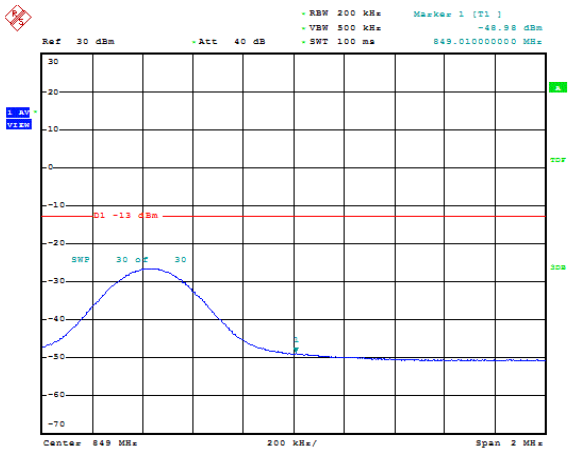

Date: 27.OCT.2020 03:33:44

Band5-10MHz-16QAM-20450-50RB#0



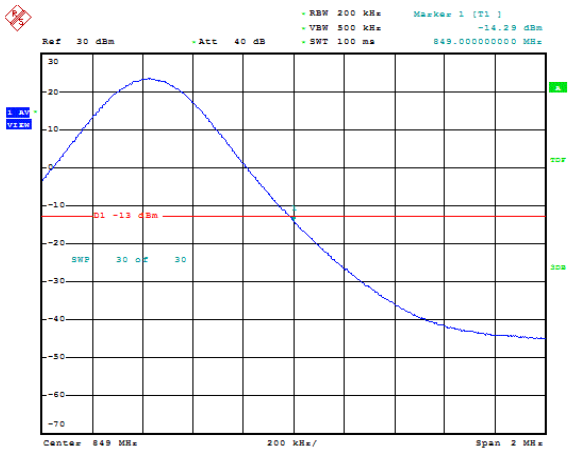

Date: 27.OCT.2020 03:34:04

Band5-10MHz-16QAM-20600-1RB#0



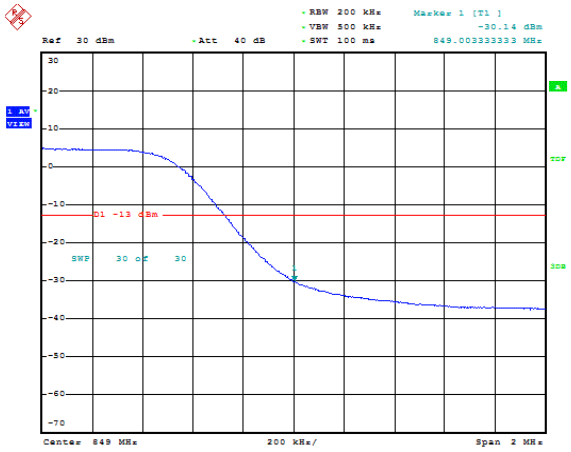

Date: 27.OCT.2020 03:34:36

Band5-10MHz-16QAM-20600-1RB#49




Date: 27.OCT.2020 03:34:55

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




Date: 27.OCT.2020 03:35:15

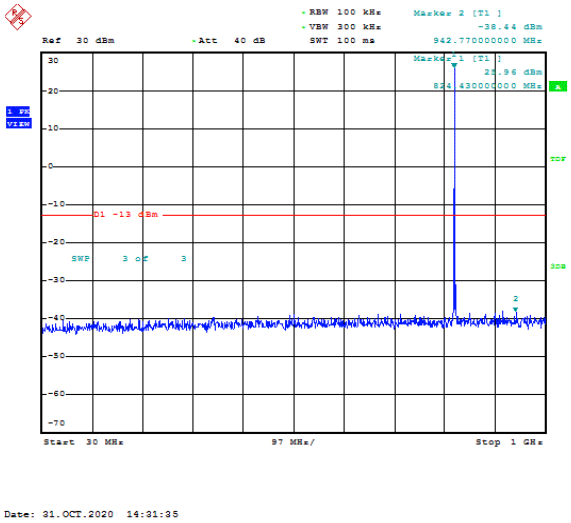
## 1.5. Appendix E: Conducted Spurious Emission

### Test Result

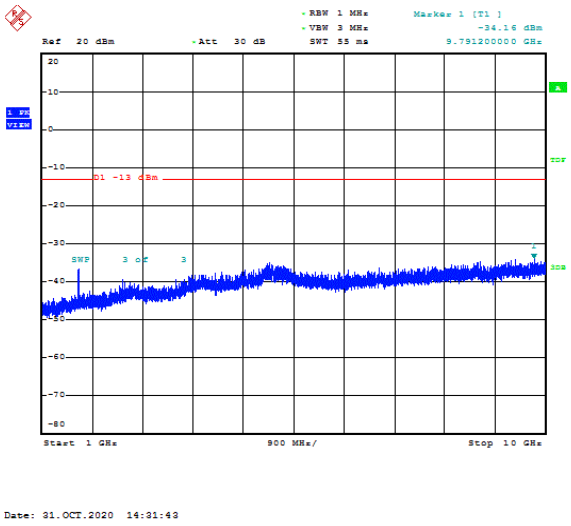
| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range1:30~1000MHz | -38.44 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | Range2:1000~10000MHz | -34.16 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range1:30~1000MHz | -38.69 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | Range2:1000~10000MHz | -34.06 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range1:30~1000MHz | -38.08 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | Range2:1000~10000MHz | -33.84 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range1:30~1000MHz | -38.77 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | Range2:1000~10000MHz | -33.96 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range1:30~1000MHz | -38.26 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | Range2:1000~10000MHz | -34.32 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range1:30~1000MHz | -38.67 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | Range2:1000~10000MHz | -33.03 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range1:30~1000MHz | -38.57 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | Range2:1000~10000MHz | -34.21 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range1:30~1000MHz | -38.87 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | Range2:1000~10000MHz | -34.34 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range1:30~1000MHz | -38.4 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | Range2:1000~10000MHz | -32.88 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range1:30~1000MHz | -39.07 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | Range2:1000~10000MHz | -34.15 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range1:30~1000MHz | -37.84 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | Range2:1000~10000MHz | -34.12 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range1:30~1000MHz | -38.42 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | Range2:1000~10000MHz | -34.24 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range1:30~1000MHz | -39.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | Range2:1000~10000MHz | -14.69 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range1:30~1000MHz | -39.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | Range2:1000~10000MHz | -14.2 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range1:30~1000MHz | -39.55 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | Range2:1000~10000MHz | -13.87 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range1:30~1000MHz | -39.63 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | Range2:1000~10000MHz | -14.78 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range1:30~1000MHz | -39.9 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | Range2:1000~10000MHz | -18.32 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range1:30~1000MHz | -39.52 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | Range2:1000~10000MHz | -14.33 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range1:30~1000MHz | -39.86 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | Range2:1000~10000MHz | -14.65 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range1:30~1000MHz | -39.18 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | Range2:1000~10000MHz | -15.67 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range1:30~1000MHz | -39.69 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | Range2:1000~10000MHz | -14.3 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range1:30~1000MHz | -39.66 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range2:1000~10000MHz | -17.78 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range1:30~1000MHz | -39.33 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range2:1000~10000MHz | -14.83 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range1:30~1000MHz | -38.78 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range2:1000~10000MHz | -13.35 | PASS |

## Test Graphs

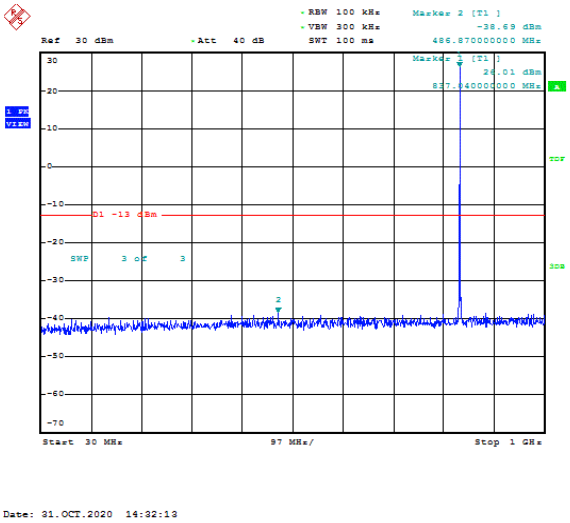
| Band5-1.4MHz-QPSK-20407-1RB#0-Range1:30~1000MHz |
|---|
|  |



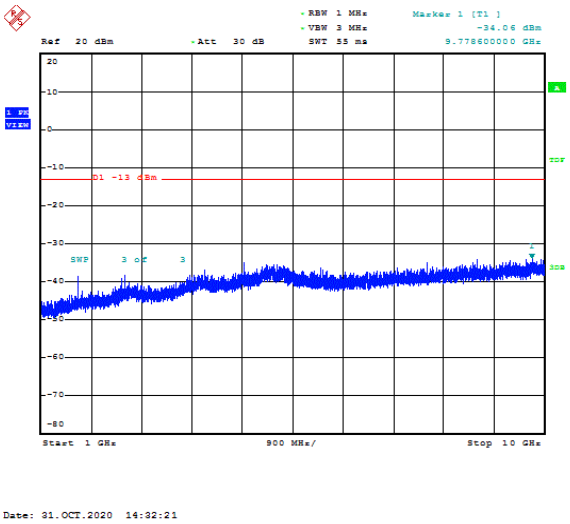
| Band5-1.4MHz-QPSK-20407-1RB#0-Range2:1000~10000MHz |
|---|
|  |



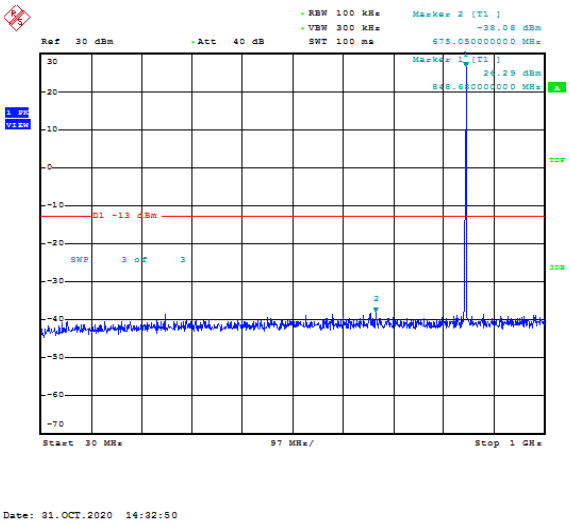
| Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1000MHz |
|---|



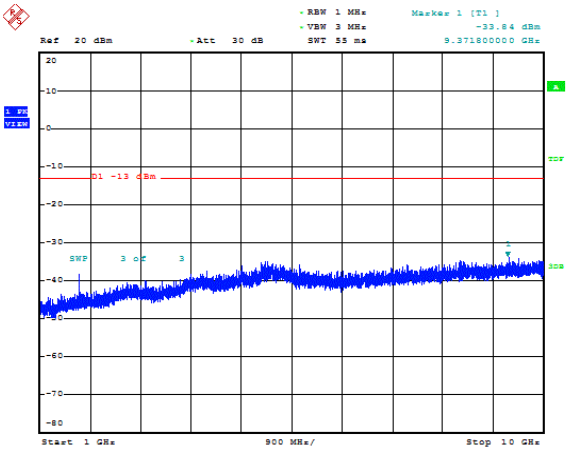

Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz




Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz

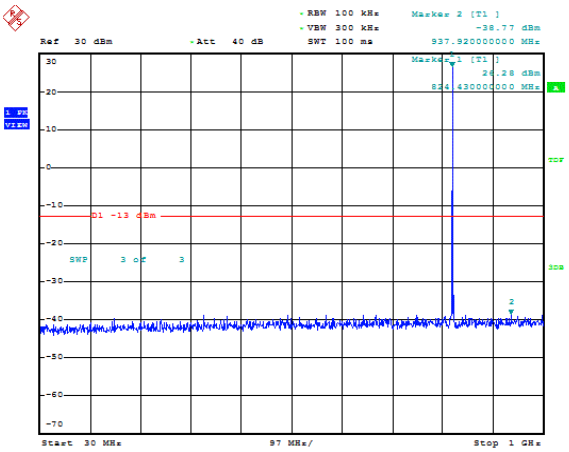



Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~10000MHz



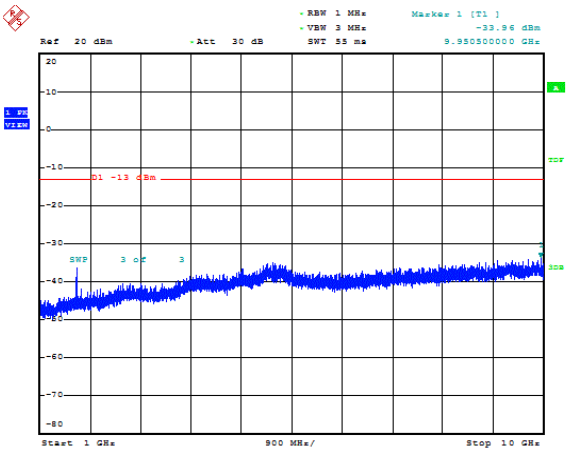

Date: 31.OCT.2020 14:32:58

Band5-1.4MHz-16QAM-20407-1RB#0-Range1:30~1000MHz



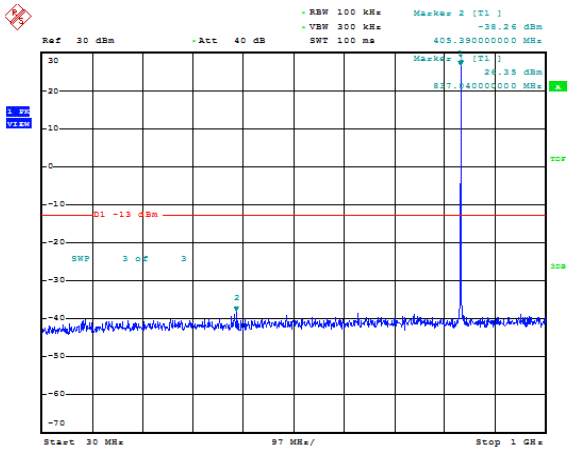

Date: 31.OCT.2020 14:31:52

Band5-1.4MHz-16QAM-20407-1RB#0-Range2:1000~10000MHz



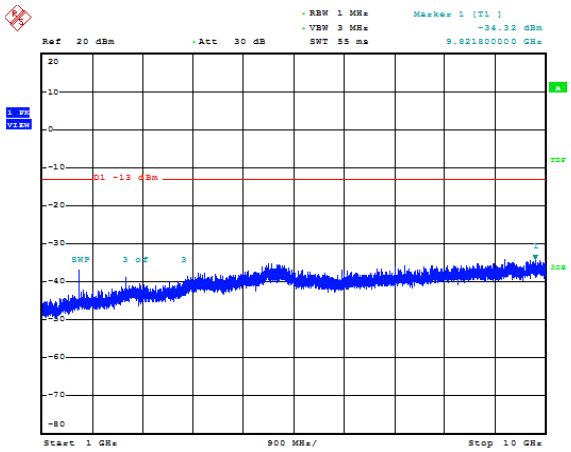

Date: 31.OCT.2020 14:32:01

Band5-1.4MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



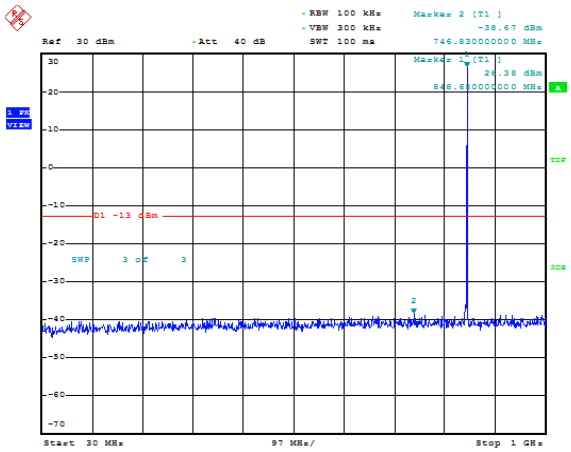

Date: 31.OCT.2020 14:32:30

Band5-1.4MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



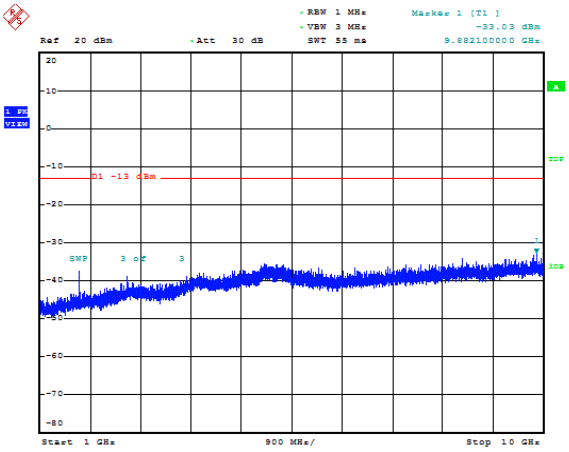

Date: 31.OCT.2020 14:32:38

Band5-1.4MHz-16QAM-20643-1RB#0-Range1:30~1000MHz



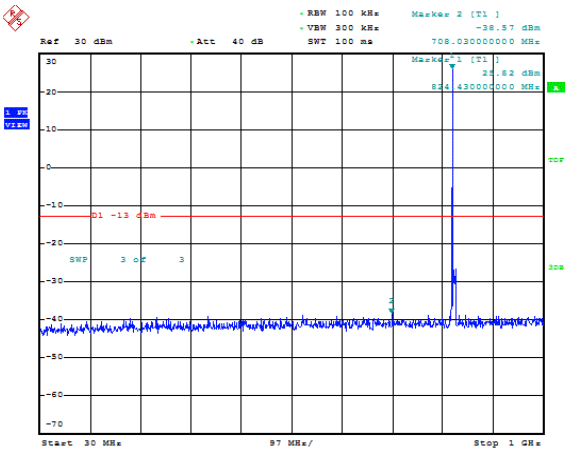

Date: 31.OCT.2020 14:33:07

Band5-1.4MHz-16QAM-20643-1RB#0-Range2:1000~10000MHz



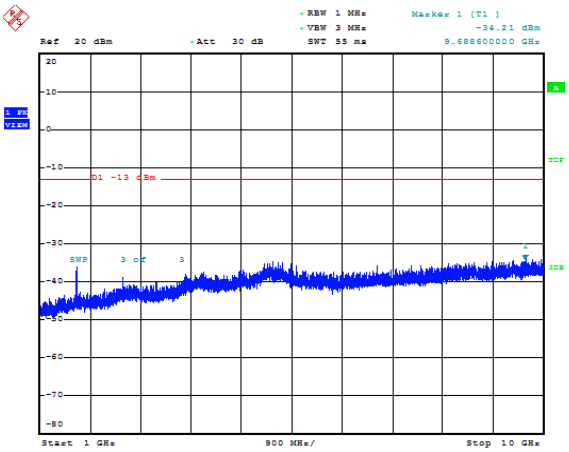

Date: 31.OCT.2020 14:33:15

Band5-3MHz-QPSK-20415-1RB#0-Range1:30~1000MHz



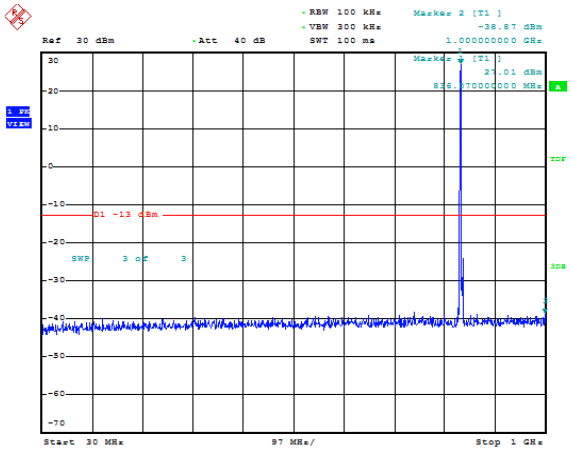

Date: 31.OCT.2020 14:36:30

Band5-3MHz-QPSK-20415-1RB#0-Range2:1000~10000MHz



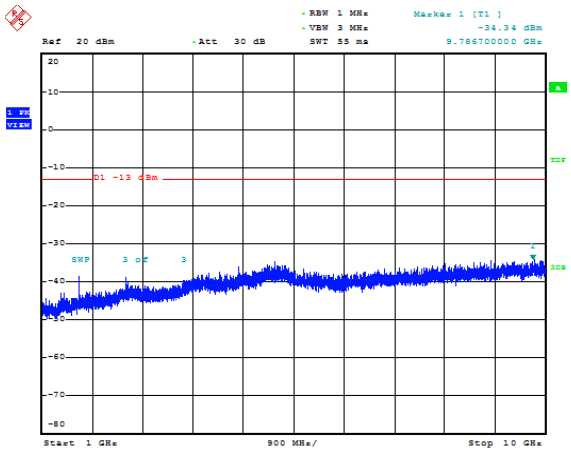

Date: 31.OCT.2020 14:36:38

Band5-3MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



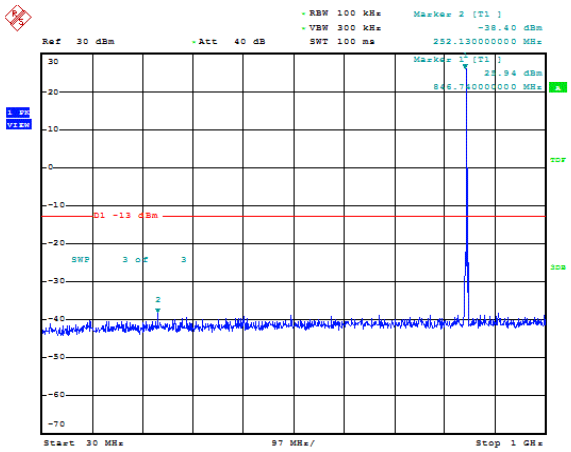

Date: 31.OCT.2020 14:37:07

Band5-3MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



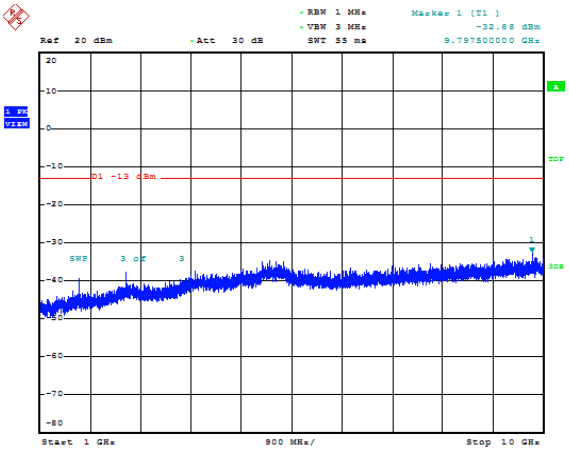

Date: 31.OCT.2020 14:37:15

Band5-3MHz-QPSK-20635-1RB#0-Range1:30~1000MHz



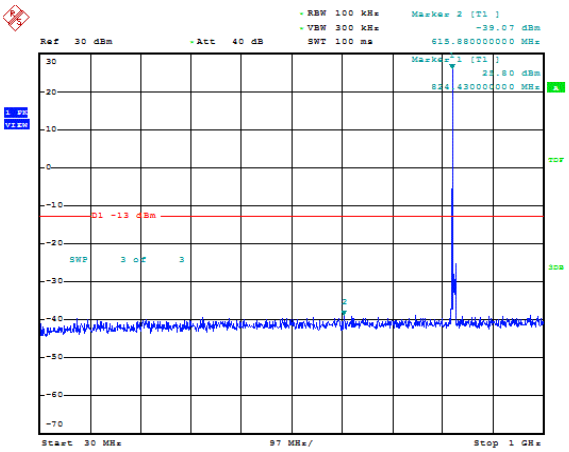

Date: 31.OCT.2020 14:37:44

Band5-3MHz-QPSK-20635-1RB#0-Range2:1000~10000MHz



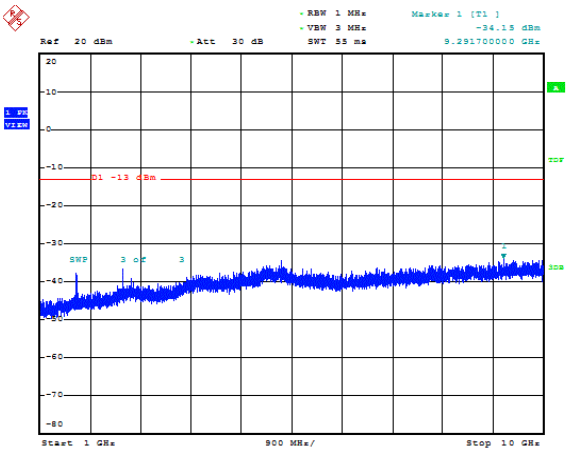

Date: 31.OCT.2020 14:37:52

Band5-3MHz-16QAM-20415-1RB#0-Range1:30~1000MHz



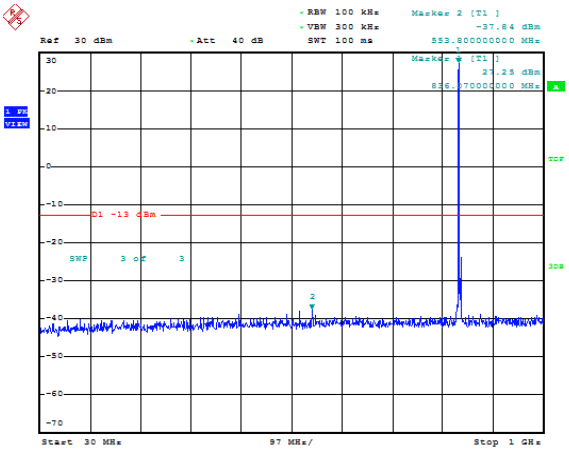

Date: 31.OCT.2020 14:36:47

Band5-3MHz-16QAM-20415-1RB#0-Range2:1000~10000MHz



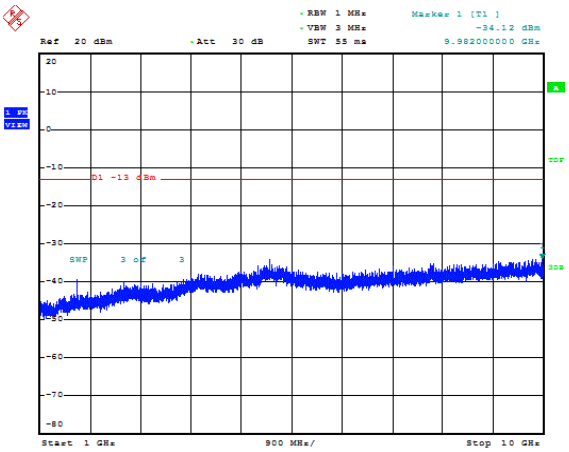

Date: 31.OCT.2020 14:36:55

Band5-3MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



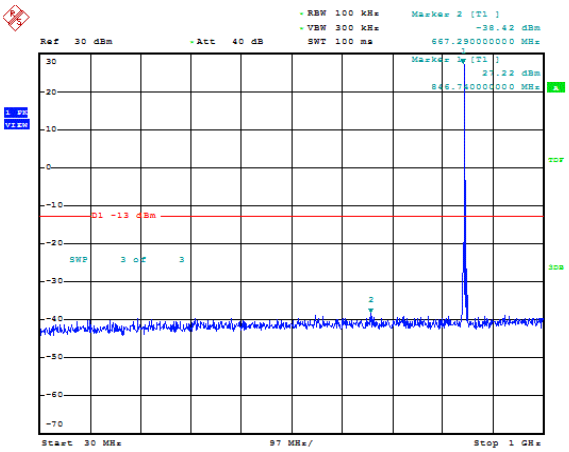

Date: 31.OCT.2020 14:37:24

Band5-3MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



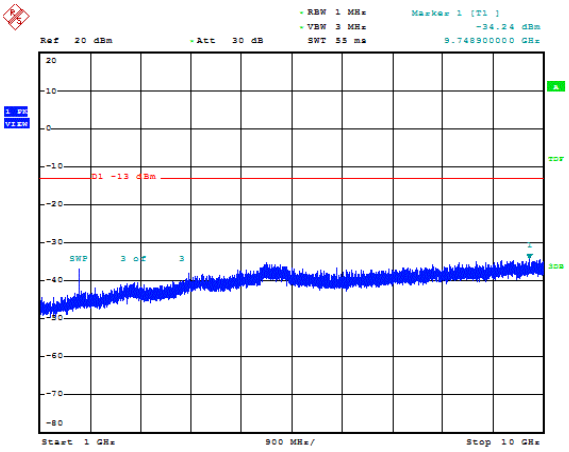

Date: 31.OCT.2020 14:37:32

Band5-3MHz-16QAM-20635-1RB#0-Range1:30~1000MHz



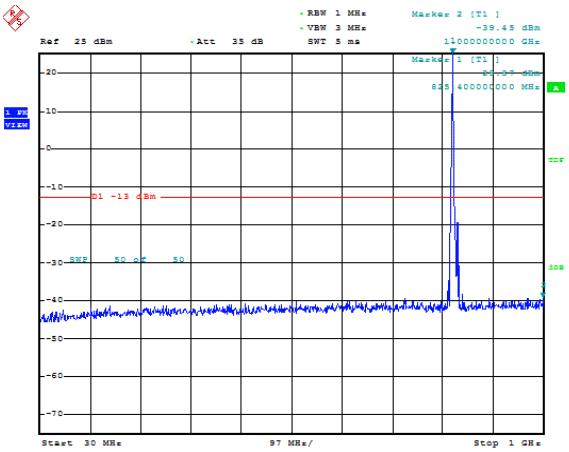

Date: 31.OCT.2020 14:38:01

Band5-3MHz-16QAM-20635-1RB#0-Range2:1000~10000MHz



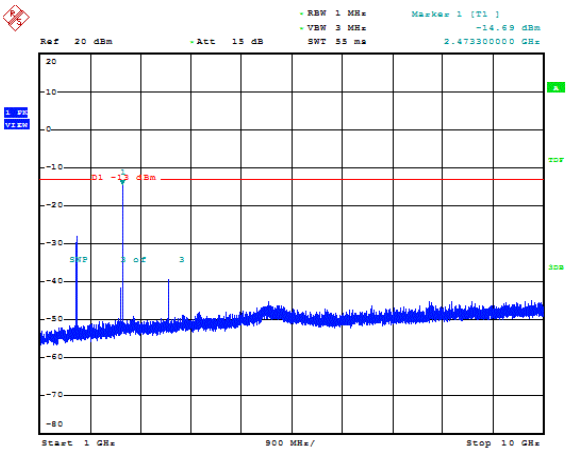

Date: 31.OCT.2020 14:38:09

Band5-5MHz-QPSK-20425-1RB#0-Range1:30~1000MHz



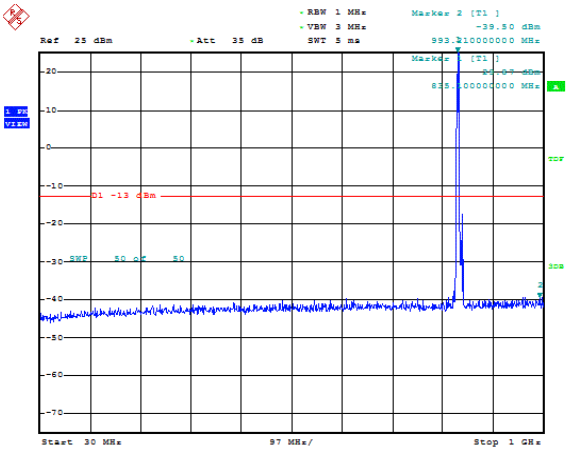

Date: 27.OCT.2020 03:20:02

Band5-5MHz-QPSK-20425-1RB#0-Range2:1000~10000MHz



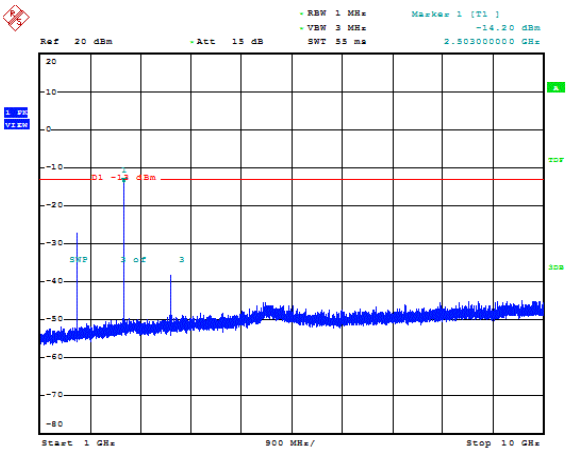

Date: 27.OCT.2020 03:20:10

Band5-5MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



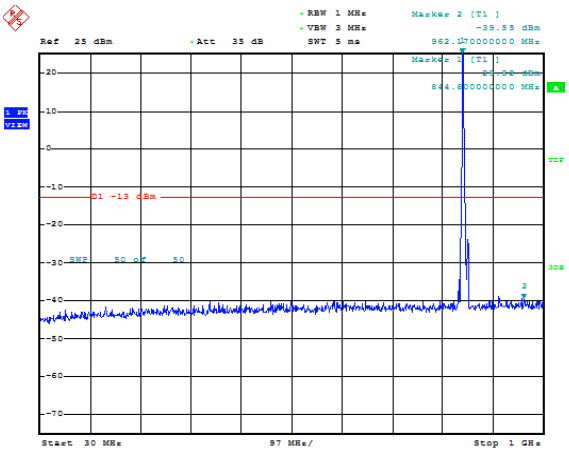

Date: 27.OCT.2020 03:20:40

Band5-5MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



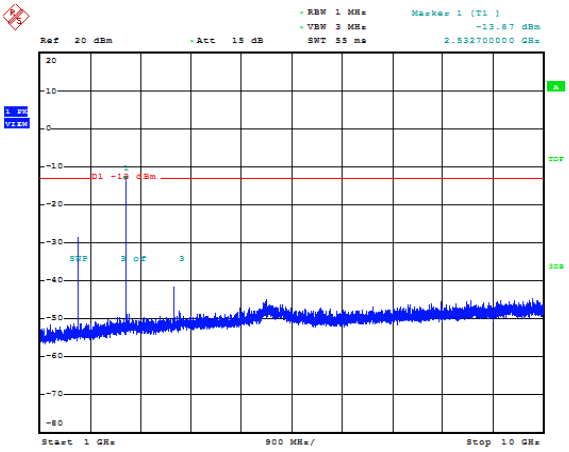

Date: 27.OCT.2020 03:20:47

Band5-5MHz-QPSK-20625-1RB#0-Range1:30~1000MHz



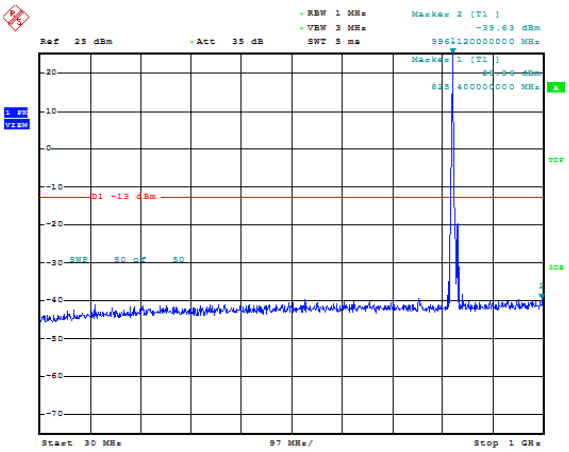

Date: 27.OCT.2020 03:21:16

Band5-5MHz-QPSK-20625-1RB#0-Range2:1000~10000MHz



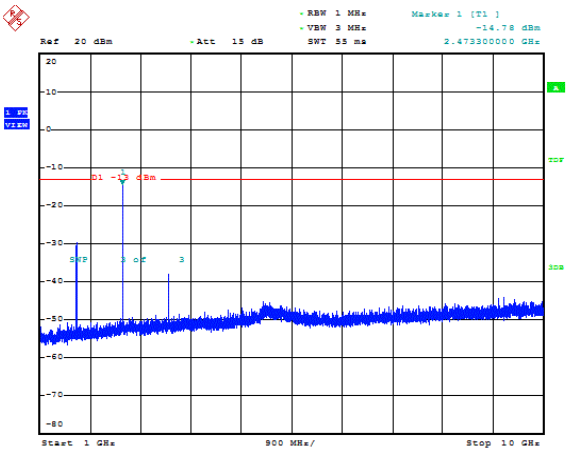

Date: 27.OCT.2020 03:21:24

Band5-5MHz-16QAM-20425-1RB#0-Range1:30~1000MHz



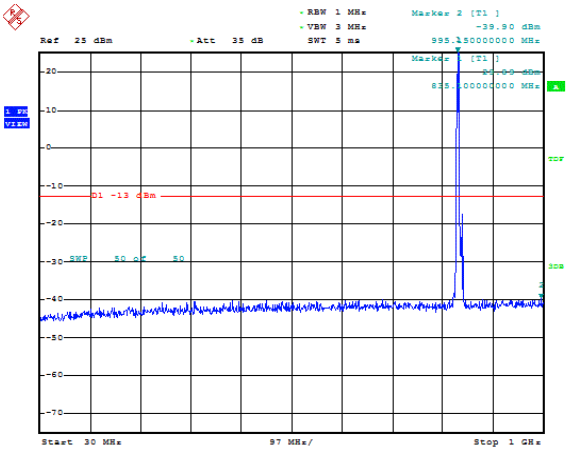

Date: 27.OCT.2020 03:20:20

Band5-5MHz-16QAM-20425-1RB#0-Range2:1000~10000MHz



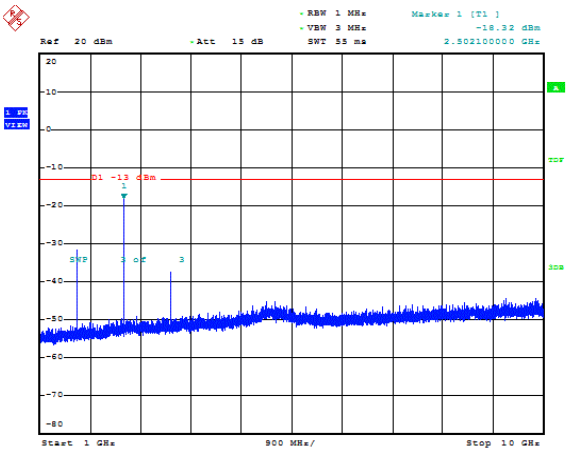

Date: 27.OCT.2020 03:20:28

Band5-5MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



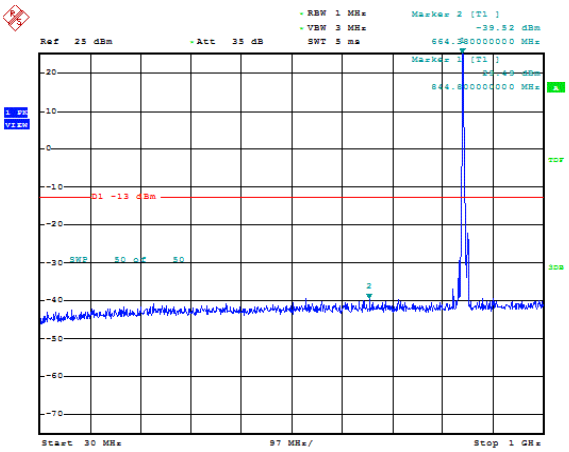

Date: 27.OCT.2020 03:20:57

Band5-5MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



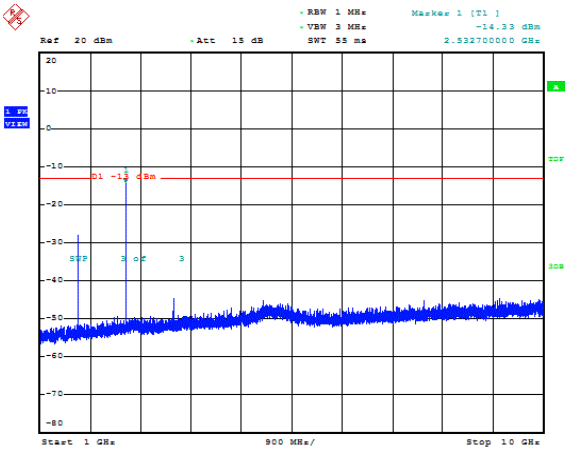

Date: 27.OCT.2020 03:21:05

Band5-5MHz-16QAM-20625-1RB#0-Range1:30~1000MHz



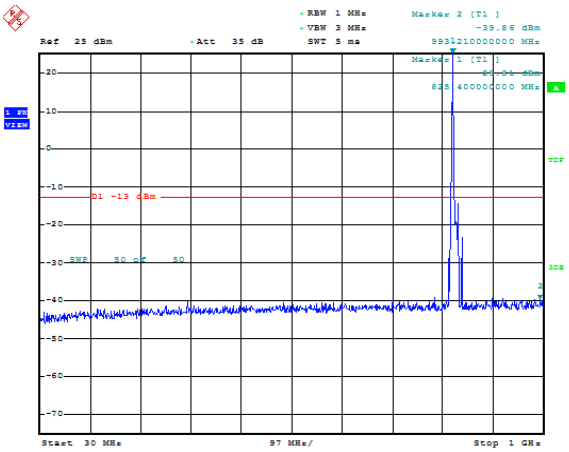

Date: 27.OCT.2020 03:21:34

Band5-5MHz-16QAM-20625-1RB#0-Range2:1000~10000MHz



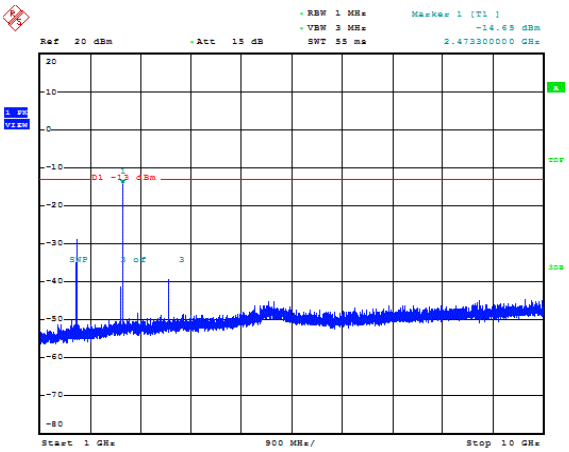

Date: 27.OCT.2020 03:21:42

Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



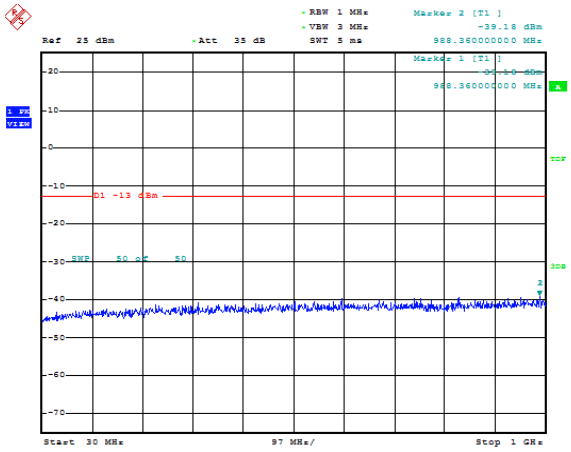

Date: 27.OCT.2020 03:35:27

Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



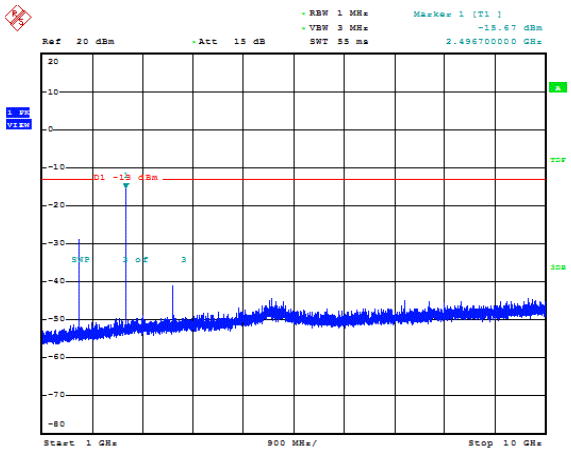

Date: 27.OCT.2020 03:35:35

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



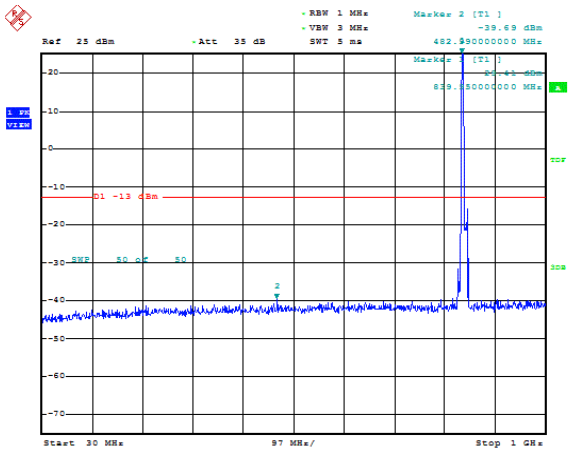

Date: 27.OCT.2020 03:36:05

Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



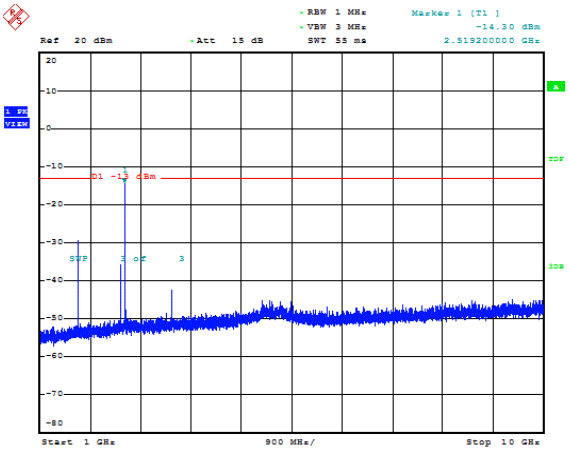

Date: 27.OCT.2020 03:36:13

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



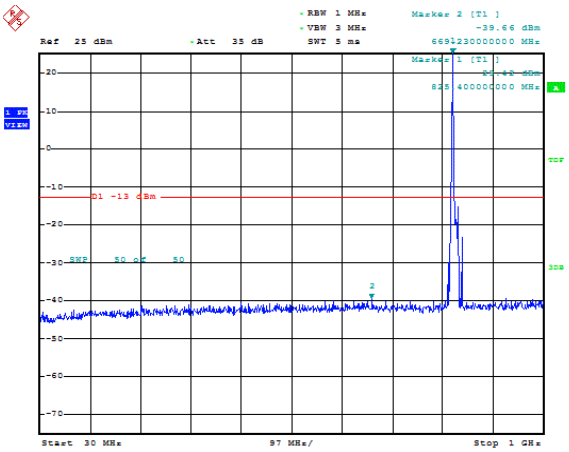

Date: 27.OCT.2020 03:36:42

Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



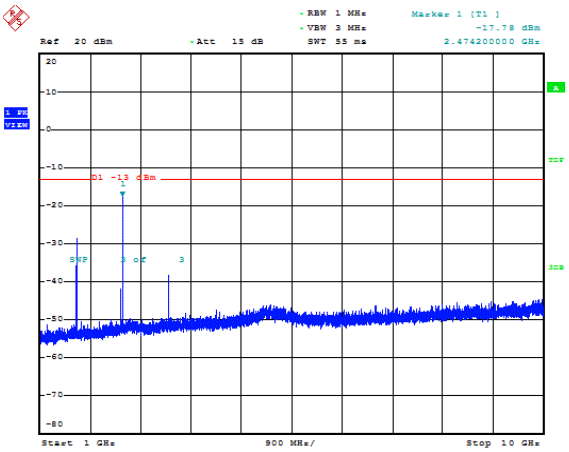

Date: 27.OCT.2020 03:36:50

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



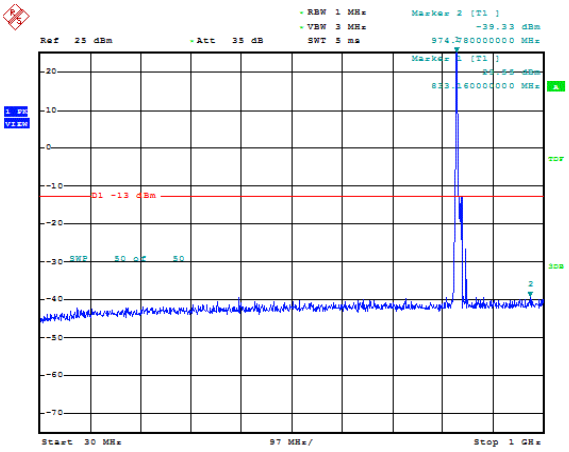

Date: 27.OCT.2020 03:35:45

Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



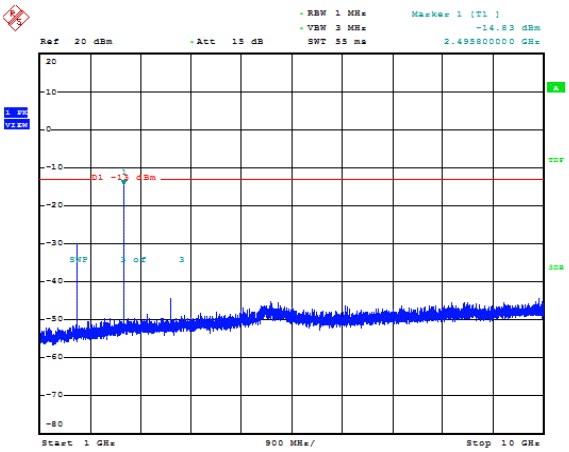

Date: 27.OCT.2020 03:35:53

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



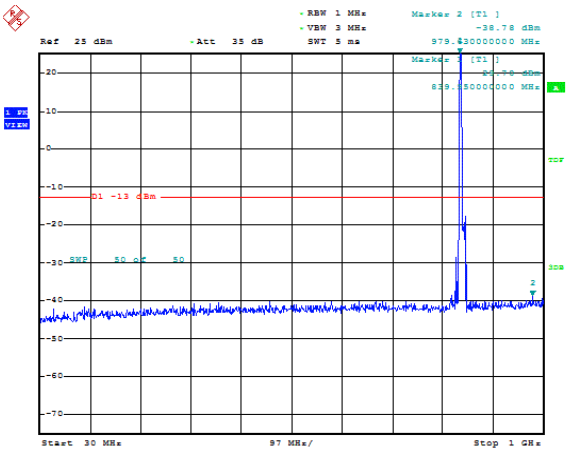

Date: 27.OCT.2020 03:36:22

Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



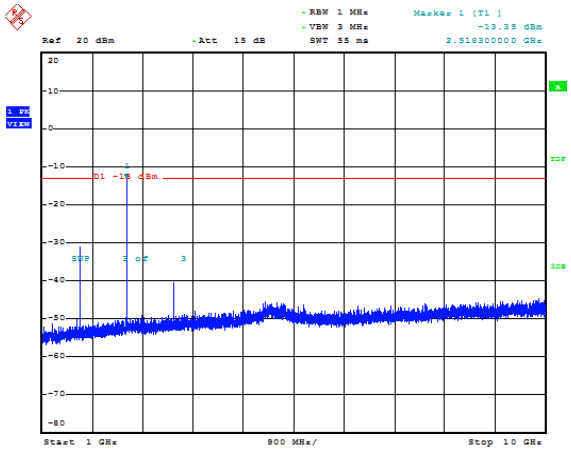

Date: 27.OCT.2020 03:36:30

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz




Date: 27.OCT.2020 03:36:59

Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz




Date: 27.OCT.2020 03:37:07

## 1.6. Appendix F: Frequency Stability

### Test Result

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | VL | NT | -2.73 | -0.003310 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | VN | NT | -2.47 | -0.002995 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | VH | NT | -2.07 | -0.002510 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | VL | NT | -1.34 | -0.001602 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | VN | NT | -3.79 | -0.004531 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | VH | NT | -2.16 | -0.002582 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | VL | NT | -3.95 | -0.004656 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | VN | NT | -2.03 | -0.002393 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | VH | NT | -3.39 | -0.003996 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | VL | NT | -2.62 | -0.003177 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | VN | NT | -1.93 | -0.002340 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | VH | NT | -2.93 | -0.003553 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | VL | NT | -2.72 | -0.003252 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | VN | NT | -4.03 | -0.004818 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | VH | NT | -2.88 | -0.003443 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | VL | NT | -1.56 | -0.001839 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | VN | NT | 1.87 | 0.002204 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | VH | NT | -2.12 | -0.002499 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | VL | NT | 1.60 | 0.001938 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | VN | NT | -3.58 | -0.004337 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | VH | NT | -3.86 | -0.004676 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | VL | NT | -2.65 | -0.003168 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | VN | NT | 2.33 | 0.002785 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | VH | NT | -1.17 | -0.001399 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | VL | NT | -2.30 | -0.002714 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | VN | NT | -2.15 | -0.002537 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | VH | NT | -3.42 | -0.004035 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | VL | NT | -1.96 | -0.002374 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | VN | NT | -1.59 | -0.001926 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | VH | NT | -1.33 | -0.001611 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | VL | NT | 0.89 | 0.001064 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | VN | NT | -1.97 | -0.002355 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | VH | NT | 1.54 | 0.001841 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | VL | NT | -3.33 | -0.003929 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | VN | NT | -4.48 | -0.005286 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | VH | NT | -3.99 | -0.004708 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | VL | NT | 1.54 | 0.001863 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | VN | NT | -1.36 | -0.001645 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | VH | NT | 1.89 | 0.002287 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | VL | NT | -1.65 | -0.001973 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | VN | NT | 2.78 | 0.003323 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | VH | NT | 1.26 | 0.001506 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | VL | NT | -2.20 | -0.002599 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | VN | NT | -2.72 | -0.003213 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | VH | NT | -2.15 | -0.002540 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | VL | NT | -4.06 | -0.004912 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | VN | NT | -2.10 | -0.002541 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | VH | NT | -4.09 | -0.004949 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | VL | NT | -1.53 | -0.001829 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | VN | NT | 1.09 | 0.001303 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | VH | NT | -1.09 | -0.001303 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | VL | NT | -2.33 | -0.002753 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | VN | NT | 1.82 | 0.002150 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | VH | NT | -2.75 | -0.003249 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VL | NT | 1.34 | 0.001616 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VN | NT | 2.32 | 0.002799 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VH | NT | -1.39 | -0.001677 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VL | NT | 2.03 | 0.002427 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VN | NT | 1.60 | 0.001913 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VH | NT | -2.36 | -0.002821 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VL | NT | -3.06 | -0.003626 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VN | NT | -2.36 | -0.002796 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VH | NT | -2.36 | -0.002796 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VL | NT | 1.49 | 0.001797 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VN | NT | -1.56 | -0.001882 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VH | NT | 1.26 | 0.001520 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VL | NT | -1.42 | -0.001698 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VN | NT | -2.35 | -0.002809 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VH | NT | -1.90 | -0.002271 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VL | NT | -1.93 | -0.002287 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VN | NT | -2.03 | -0.002405 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VH | NT | -2.75 | -0.003258 | ±2.5 | PASS |

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | -10 | -3.35 | -0.004062 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 0 | -2.89 | -0.003504 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 10 | -2.98 | -0.003613 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 20 | 1.72 | 0.002086 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 30 | -1.49 | -0.001807 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 40 | -2.93 | -0.003553 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | NV | 50 | -1.92 | -0.002328 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | -10 | -2.73 | -0.003264 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 0 | 1.89 | 0.002259 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 10 | 2.10 | 0.002510 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 20 | -2.00 | -0.002391 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 30 | 2.30 | 0.002750 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 40 | -1.82 | -0.002176 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | NV | 50 | 1.36 | 0.001626 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | -10 | -2.99 | -0.003525 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 0 | -2.23 | -0.002629 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 10 | -2.43 | -0.002865 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 20 | -3.02 | -0.003560 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 30 | -2.92 | -0.003442 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 40 | -2.93 | -0.003454 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | NV | 50 | -1.59 | -0.001874 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | -10 | 1.17 | 0.001419 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 0 | -3.09 | -0.003747 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 10 | -3.82 | -0.004632 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 20 | -2.59 | -0.003141 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 30 | -4.11 | -0.004984 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 40 | -2.56 | -0.003104 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 50 | -3.09 | -0.003747 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | -10 | 1.95 | 0.002331 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 0 | -1.89 | -0.002259 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 10 | 1.72 | 0.002056 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 20 | 0.97 | 0.001160 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 30 | -2.42 | -0.002893 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 40 | 2.90 | 0.003467 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 50 | -1.70 | -0.002032 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | -10 | 1.62 | 0.001910 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 0 | -2.26 | -0.002664 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 10 | -1.33 | -0.001568 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 20 | -1.17 | -0.001379 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 30 | -2.06 | -0.002428 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 40 | -2.23 | -0.002629 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 50 | 3.53 | 0.004161 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | -10 | -3.22 | -0.003901 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 0 | -2.68 | -0.003247 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 10 | -2.33 | -0.002823 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 20 | -2.90 | -0.003513 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 30 | -2.30 | -0.002786 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 40 | -4.15 | -0.005027 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | NV | 50 | 2.19 | 0.002653 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | -10 | -3.39 | -0.004053 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 0 | 2.37 | 0.002833 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 10 | -1.24 | -0.001482 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 20 | -3.06 | -0.003658 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 30 | -1.66 | -0.001984 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 40 | -2.10 | -0.002510 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | NV | 50 | -1.96 | -0.002343 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | -10 | -3.05 | -0.003599 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 0 | -4.23 | -0.004991 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 10 | -3.10 | -0.003658 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 20 | -3.53 | -0.004165 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 30 | -2.37 | -0.002796 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 40 | -2.68 | -0.003162 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | NV | 50 | -3.09 | -0.003646 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | -10 | -1.47 | -0.001781 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 0 | -2.23 | -0.002701 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 10 | 1.23 | 0.001490 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 20 | -2.15 | -0.002604 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 30 | 2.39 | 0.002895 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 40 | 2.30 | 0.002786 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 50 | -1.52 | -0.001841 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | -10 | -1.69 | -0.002020 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 0 | -3.29 | -0.003933 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 10 | -3.00 | -0.003586 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 20 | -1.97 | -0.002355 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 30 | -2.53 | -0.003025 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 40 | 2.02 | 0.002415 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 50 | -2.55 | -0.003048 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -10 | -1.97 | -0.002324 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 0 | -2.57 | -0.003032 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 10 | -2.40 | -0.002832 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 20 | -2.56 | -0.003021 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 30 | -2.85 | -0.003363 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 40 | -3.42 | -0.004035 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 50 | 1.29 | 0.001522 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | -10 | -2.76 | -0.003339 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 0 | -1.10 | -0.001331 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 10 | -3.42 | -0.004138 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 20 | -2.47 | -0.002989 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 30 | -2.03 | -0.002456 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 40 | -2.43 | -0.002940 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | NV | 50 | -4.73 | -0.005723 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | -10 | -2.10 | -0.002510 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 0 | -1.62 | -0.001937 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 10 | 1.07 | 0.001279 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 20 | 1.27 | 0.001518 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 30 | -1.57 | -0.001877 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 40 | -2.02 | -0.002415 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | NV | 50 | -2.57 | -0.003072 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | -10 | -2.15 | -0.002540 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 0 | -2.78 | -0.003284 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 10 | -2.76 | -0.003260 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 20 | -2.45 | -0.002894 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 30 | -1.90 | -0.002245 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 40 | 1.36 | 0.001607 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | NV | 50 | -2.98 | -0.003520 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | -10 | 1.69 | 0.002045 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 0 | -2.56 | -0.003097 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 10 | -2.33 | -0.002819 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 20 | -1.63 | -0.001972 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 30 | -5.39 | -0.006521 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 40 | -4.09 | -0.004949 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 50 | -3.32 | -0.004017 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | -10 | -2.69 | -0.003216 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 0 | 2.68 | 0.003204 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 10 | -1.77 | -0.002116 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 20 | -2.13 | -0.002546 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 30 | -2.75 | -0.003288 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 40 | -2.30 | -0.002750 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | NV | 50 | 1.26 | 0.001506 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | -10 | -1.40 | -0.001654 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 0 | -2.55 | -0.003012 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 10 | -2.22 | -0.002623 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 20 | -2.53 | -0.002989 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 30 | 2.20 | 0.002599 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 40 | 1.63 | 0.001926 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | NV | 50 | -3.98 | -0.004702 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -10 | -2.83 | -0.003414 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 0 | -1.83 | -0.002207 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 10 | -2.75 | -0.003317 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 20 | -3.32 | -0.004005 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 30 | -3.46 | -0.004174 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 40 | -2.23 | -0.002690 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 50 | -2.80 | -0.003378 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -10 | -1.37 | -0.001638 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0 | -1.00 | -0.001195 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10 | -2.66 | -0.003180 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20 | -3.18 | -0.003802 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30 | 1.65 | 0.001973 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40 | -1.75 | -0.002092 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50 | -1.95 | -0.002331 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -10 | -2.23 | -0.002642 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0 | -1.76 | -0.002085 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 10 | -2.68 | -0.003175 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 20 | -1.99 | -0.002358 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 30 | 0.86 | 0.001019 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40 | -3.83 | -0.004538 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50 | -2.27 | -0.002690 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -10 | 1.37 | 0.001653 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 0 | 2.60 | 0.003136 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 10 | 2.00 | 0.002413 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 20 | 2.20 | 0.002654 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30 | 1.87 | 0.002256 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40 | -1.62 | -0.001954 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50 | -2.52 | -0.003040 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -10 | -1.97 | -0.002355 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0 | 1.13 | 0.001351 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10 | -1.19 | -0.001423 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20 | 1.77 | 0.002116 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30 | -2.85 | -0.003407 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40 | 2.19 | 0.002618 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50 | -1.69 | -0.002020 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -10 | -2.50 | -0.002962 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0 | -2.26 | -0.002678 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10 | -2.12 | -0.002512 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20 | -1.93 | -0.002287 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30 | -1.49 | -0.001765 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40 | -1.57 | -0.001860 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50 | -1.99 | -0.002358 | ±2.5 | PASS |

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