



# Appendix B

## E-UTRA Band 2



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Center EEC Laboratory

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## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

| Band  | Bandwidth<br>h | Modulation | Channel | RB<br>Configuration | Conducted<br>Power(dBm) | EIRP<br>(dBm) | limit<br>(dBm) | Verdict |
|-------|----------------|------------|---------|---------------------|-------------------------|---------------|----------------|---------|
| Band2 | 1.4MHz         | QPSK       | 18607   | 1RB#0               | 23.29                   | 23.29         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 1RB#2               | 23.38                   | 23.38         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 1RB#5               | 23.24                   | 23.24         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 3RB#0               | 23.25                   | 23.25         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 3RB#1               | 23.34                   | 23.34         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 3RB#3               | 23.37                   | 23.37         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18607   | 6RB#0               | 22.37                   | 22.37         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 1RB#2               | 23.16                   | 23.16         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 1RB#5               | 23.39                   | 23.39         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 1RB#0               | 23.27                   | 23.27         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 3RB#3               | 23.30                   | 23.30         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 3RB#1               | 23.47                   | 23.47         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 3RB#0               | 23.27                   | 23.27         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 18900   | 6RB#0               | 22.42                   | 22.42         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 1RB#2               | 23.21                   | 23.21         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 1RB#5               | 23.33                   | 23.33         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 1RB#0               | 23.20                   | 23.20         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 3RB#1               | 23.34                   | 23.34         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 3RB#0               | 23.28                   | 23.28         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 3RB#3               | 23.26                   | 23.26         | 33.00          | PASS    |
| Band2 | 1.4MHz         | QPSK       | 19193   | 6RB#0               | 22.33                   | 22.33         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 1RB#0               | 22.47                   | 22.47         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 1RB#2               | 22.64                   | 22.64         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 1RB#5               | 22.33                   | 22.33         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 3RB#3               | 22.31                   | 22.31         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 3RB#0               | 22.44                   | 22.44         | 33.00          | PASS    |
| Band2 | 1.4MHz         | 16QAM      | 18607   | 3RB#1               | 22.26                   | 22.26         | 33.00          | PASS    |



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|       |        |       |       |        |              |              |       |      |
|-------|--------|-------|-------|--------|--------------|--------------|-------|------|
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0  | 21.47        | 21.47        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#0  | 22.52        | 22.52        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#2  | 22.33        | 22.33        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#5  | 22.70        | 22.70        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 3RB#3  | 22.06        | 22.06        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 3RB#0  | 22.34        | 22.34        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 3RB#1  | 22.26        | 22.26        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0  | 21.45        | 21.45        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#0  | 22.39        | 22.39        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#5  | 22.61        | 22.61        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#2  | 22.59        | 22.59        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#3  | 22.34        | 22.34        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#0  | 22.39        | 22.39        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#1  | 22.17        | 22.17        | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0  | 21.51        | 21.51        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#14 | 23.30        | 23.30        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#0  | <b>23.63</b> | <b>23.63</b> | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#8  | 23.28        | 23.28        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#7  | 22.36        | 22.36        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#4  | 22.49        | 22.49        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#0  | 22.39        | 22.39        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 22.46        | 22.46        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#14 | 23.19        | 23.19        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#0  | 23.50        | 23.50        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#8  | 23.29        | 23.29        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#0  | 22.34        | 22.34        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#4  | 22.30        | 22.30        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#7  | 22.31        | 22.31        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 22.30        | 22.30        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#14 | 23.23        | 23.23        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#0  | 23.36        | 23.36        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#8  | 23.26        | 23.26        | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#4  | 22.33        | 22.33        | 33.00 | PASS |



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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 3MHz | QPSK  | 19185 | 8RB#7   | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 8RB#0   | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 15RB#0  | 22.21 | 22.21 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#14  | 22.78 | 22.78 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#8   | 22.48 | 22.48 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#0   | 22.48 | 22.48 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 8RB#0   | 21.40 | 21.40 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 8RB#4   | 21.45 | 21.45 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 8RB#7   | 21.38 | 21.38 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0  | 21.51 | 21.51 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#14  | 22.79 | 22.79 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#0   | 22.37 | 22.37 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#8   | 22.57 | 22.57 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#0   | 21.42 | 21.42 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#4   | 21.39 | 21.39 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#7   | 21.34 | 21.34 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0  | 21.35 | 21.35 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#0   | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#14  | 22.46 | 22.46 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#8   | 22.56 | 22.56 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#0   | 21.35 | 21.35 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#7   | 21.49 | 21.49 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#4   | 21.25 | 21.25 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0  | 21.26 | 21.26 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#0   | 23.09 | 23.09 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#12  | 23.23 | 23.23 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#24  | 23.22 | 23.22 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#0  | 22.31 | 22.31 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#6  | 22.39 | 22.39 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#13 | 22.41 | 22.41 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 25RB#0  | 22.35 | 22.35 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#12  | 23.11 | 23.11 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#0   | 23.45 | 23.45 | 33.00 | PASS |



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|       |      |       |       |         |       |       |       |      |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 5MHz | QPSK  | 18900 | 1RB#24  | 23.16 | 23.16 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#0  | 22.31 | 22.31 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#6  | 22.44 | 22.44 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#13 | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 25RB#0  | 22.26 | 22.26 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#24  | 23.06 | 23.06 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#0   | 23.24 | 23.24 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#12  | 23.20 | 23.20 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#0  | 22.38 | 22.38 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#6  | 22.31 | 22.31 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#13 | 22.23 | 22.23 | 33.00 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 25RB#0  | 22.36 | 22.36 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#24  | 22.63 | 22.63 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#0   | 22.24 | 22.24 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#12  | 22.76 | 22.76 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 12RB#0  | 21.39 | 21.39 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 12RB#6  | 21.50 | 21.50 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 12RB#13 | 21.31 | 21.31 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0  | 21.34 | 21.34 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#0   | 22.35 | 22.35 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#12  | 22.72 | 22.72 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#24  | 22.40 | 22.40 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 12RB#0  | 21.28 | 21.28 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 12RB#6  | 21.28 | 21.28 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 12RB#13 | 21.40 | 21.40 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0  | 21.36 | 21.36 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#12  | 22.20 | 22.20 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#24  | 22.14 | 22.14 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#0   | 22.49 | 22.49 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 12RB#0  | 21.35 | 21.35 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 12RB#6  | 21.33 | 21.33 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 12RB#13 | 21.24 | 21.24 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0  | 21.33 | 21.33 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0   | 23.37 | 23.37 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#24  | 23.46 | 23.46 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49  | 23.30 | 23.30 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#0  | 22.39 | 22.39 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#12 | 22.38 | 22.38 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#25 | 22.42 | 22.42 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0  | 22.39 | 22.39 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49  | 23.35 | 23.35 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0   | 23.29 | 23.29 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#24  | 23.21 | 23.21 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#0  | 22.33 | 22.33 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#12 | 22.39 | 22.39 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#25 | 22.38 | 22.38 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0  | 22.34 | 22.34 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0   | 23.20 | 23.20 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#24  | 23.35 | 23.35 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49  | 23.16 | 23.16 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#25 | 22.45 | 22.45 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#0  | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#12 | 22.23 | 22.23 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0  | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0   | 22.85 | 22.85 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49  | 22.44 | 22.44 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24  | 22.44 | 22.44 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#25 | 21.47 | 21.47 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#12 | 21.45 | 21.45 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#0  | 21.39 | 21.39 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0  | 21.36 | 21.36 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49  | 22.33 | 22.33 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0   | 22.77 | 22.77 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24  | 22.46 | 22.46 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#25 | 21.36 | 21.36 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#12 | 21.32 | 21.32 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 10MHz | 16QAM | 18900 | 25RB#0  | 21.40 | 21.40 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0  | 21.41 | 21.41 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0   | 22.48 | 22.48 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49  | 22.53 | 22.53 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24  | 22.41 | 22.41 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#0  | 21.56 | 21.56 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#12 | 21.29 | 21.29 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#25 | 21.37 | 21.37 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 21.43 | 21.43 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38  | 23.23 | 23.23 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0   | 23.37 | 23.37 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74  | 23.27 | 23.27 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#0  | 22.45 | 22.45 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#18 | 22.42 | 22.42 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#39 | 22.38 | 22.38 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 22.31 | 22.31 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0   | 23.24 | 23.24 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38  | 23.29 | 23.29 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74  | 23.19 | 23.19 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#0  | 22.30 | 22.30 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#39 | 22.34 | 22.34 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#18 | 22.32 | 22.32 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 22.37 | 22.37 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38  | 23.15 | 23.15 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74  | 23.25 | 23.25 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0   | 23.11 | 23.11 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#0  | 22.36 | 22.36 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#39 | 22.26 | 22.26 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#18 | 22.24 | 22.24 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 22.29 | 22.29 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 22.31 | 22.31 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 22.48 | 22.48 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 22.69 | 22.69 | 33.00 | PASS |



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|       |       |       |       |         |              |              |       |      |
|-------|-------|-------|-------|---------|--------------|--------------|-------|------|
| Band2 | 15MHz | 16QAM | 18675 | 36RB#39 | 21.30        | 21.30        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#18 | 21.31        | 21.31        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#0  | 21.30        | 21.30        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 21.34        | 21.34        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 22.36        | 22.36        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 22.56        | 22.56        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 22.14        | 22.14        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#0  | 21.40        | 21.40        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#18 | 21.34        | 21.34        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#39 | 21.30        | 21.30        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 21.38        | 21.38        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 22.27        | 22.27        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 22.57        | 22.57        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 22.38        | 22.38        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#39 | 21.32        | 21.32        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#0  | 21.27        | 21.27        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#18 | 21.27        | 21.27        | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 21.29        | 21.29        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#49  | 22.98        | 22.98        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | <b>23.52</b> | <b>23.52</b> | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 23.07        | 23.07        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#0  | 22.21        | 22.21        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#25 | 22.36        | 22.36        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#50 | 22.24        | 22.24        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 22.32        | 22.32        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 23.13        | 23.13        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#49  | 23.46        | 23.46        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 22.87        | 22.87        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#25 | 22.31        | 22.31        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#0  | 22.32        | 22.32        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#50 | 22.34        | 22.34        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 22.34        | 22.34        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#49  | 22.94        | 22.94        | 33.00 | PASS |



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|       |       |       |       |         |              |              |       |      |
|-------|-------|-------|-------|---------|--------------|--------------|-------|------|
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 23.30        | 23.30        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 22.92        | 22.92        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#25 | <b>22.37</b> | <b>22.37</b> | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#50 | 22.26        | 22.26        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#0  | 22.16        | 22.16        | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 22.20        | 22.20        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 22.63        | 22.63        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 22.72        | 22.72        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49  | 22.44        | 22.44        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#0  | 21.23        | 21.23        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#25 | 21.39        | 21.39        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#50 | 21.37        | 21.37        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 21.22        | 21.22        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 22.44        | 22.44        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49  | 22.51        | 22.51        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 22.33        | 22.33        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#25 | 21.43        | 21.43        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#0  | 21.35        | 21.35        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#50 | 21.35        | 21.35        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 21.29        | 21.29        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 22.21        | 22.21        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49  | 22.64        | 22.64        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 22.29        | 22.29        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#50 | 21.40        | 21.40        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#25 | 21.33        | 21.33        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#0  | 21.11        | 21.11        | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 21.29        | 21.29        | 33.00 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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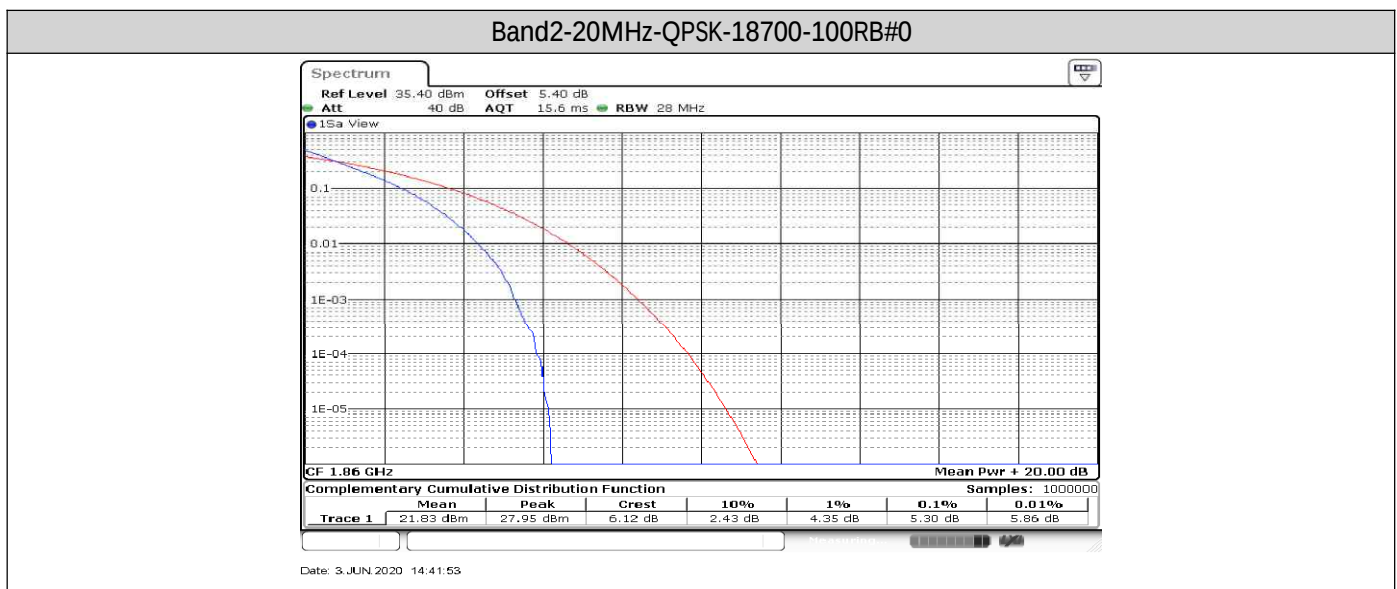


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 5.30       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 5.33       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 5.13       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 6.12       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.12       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 5.94       | 13        | PASS    |

### 2.2. Test Plots



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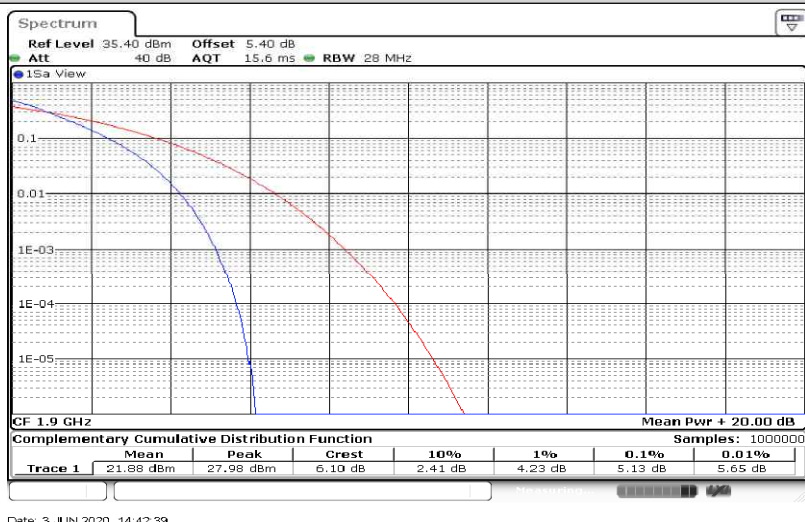
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Band2-20MHz-QPSK-18900-100RB#0



Band2-20MHz-QPSK-19100-100RB#0



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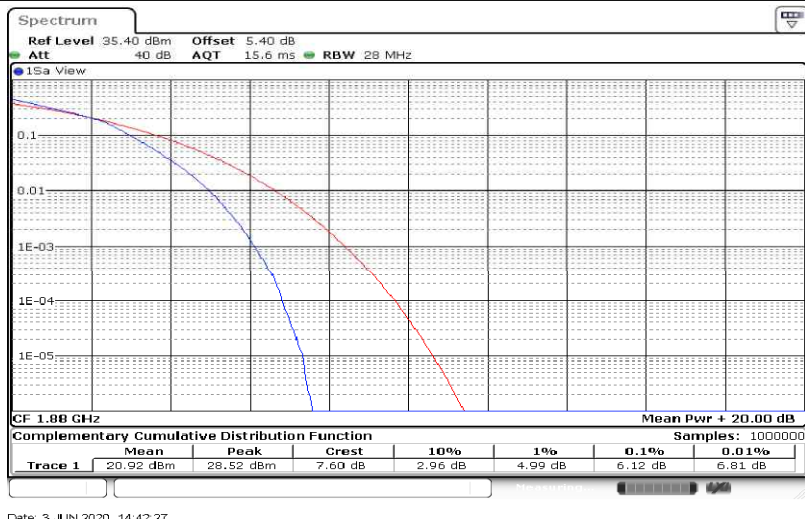
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Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-18900-100RB#0





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

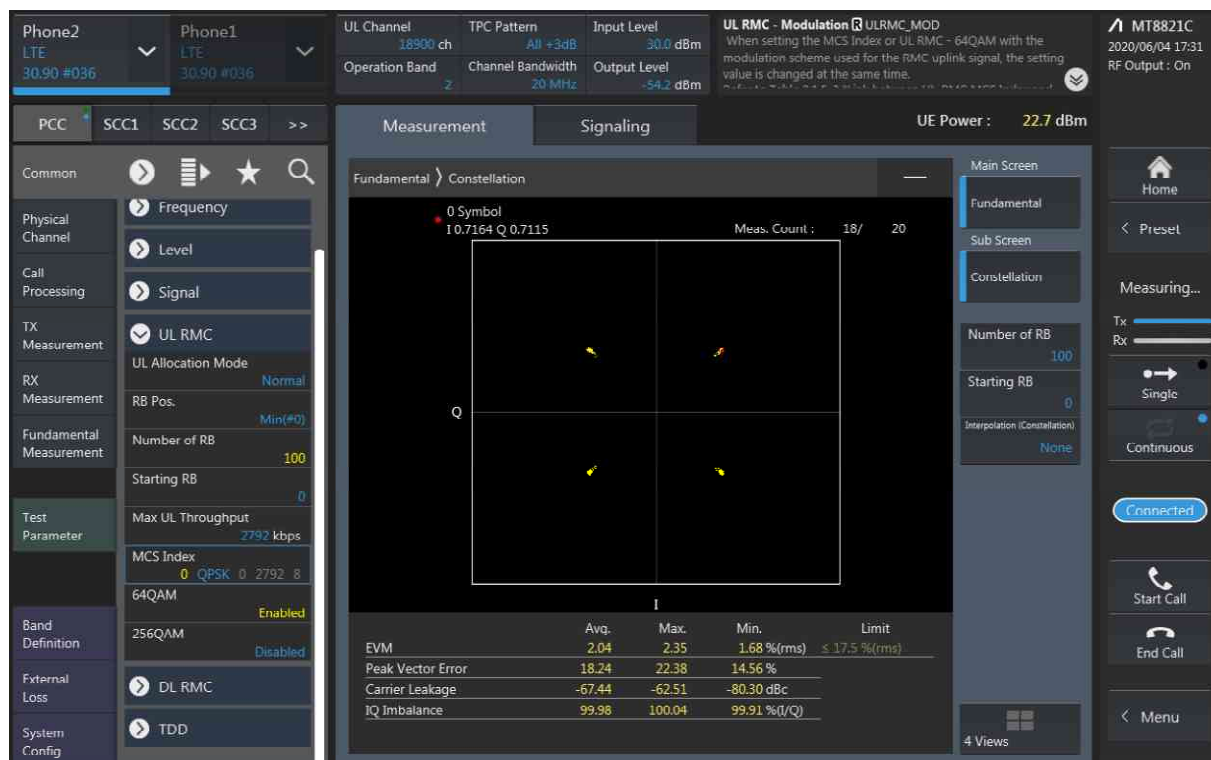




### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

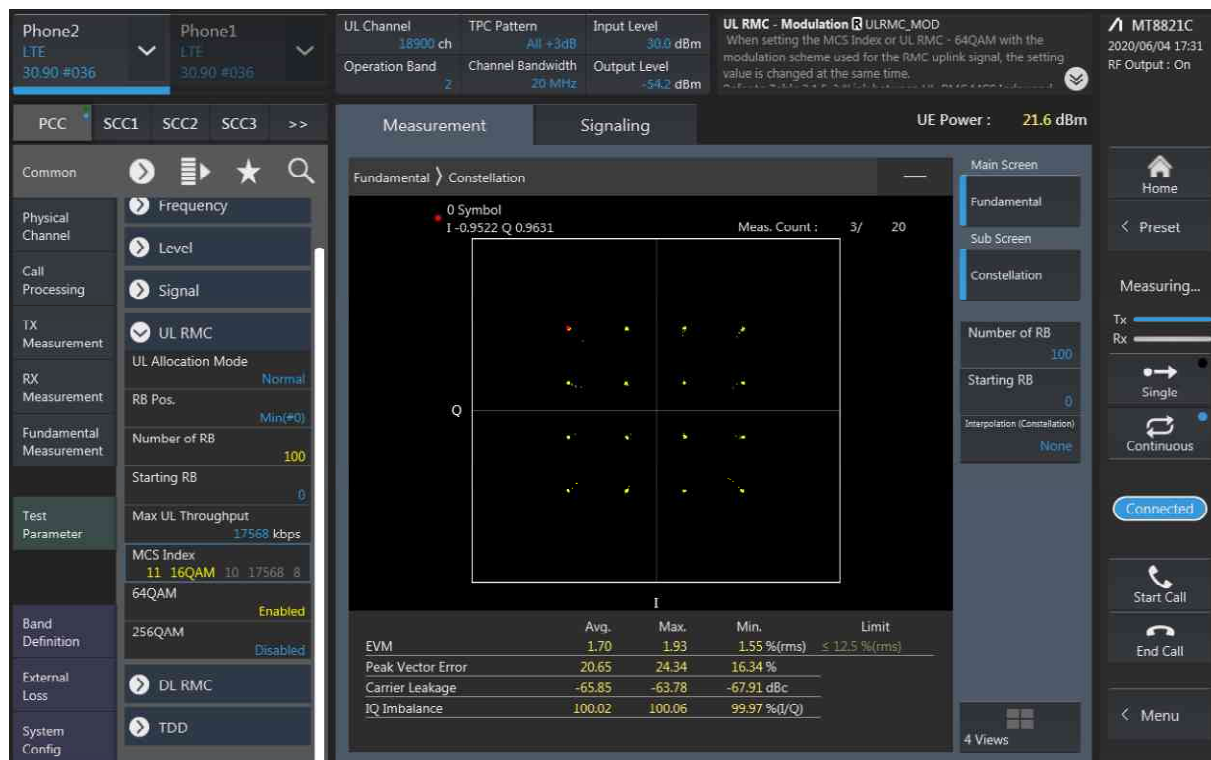
##### 3.1.1. Test Channel = MCH





## 3.2. Test Mode = LTE /TM2 20MHz

### 3.2.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.088                    | 1.287                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.088                    | 1.284                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.091                    | 1.308                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.088                    | 1.290                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.091                    | 1.275                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.091                    | 1.296                | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.691                    | 2.910                | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.691                    | 2.922                | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.685                    | 2.916                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.673                    | 2.904                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.685                    | 2.886                | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.679                    | 2.898                | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.476                    | 4.840                | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.466                    | 4.840                | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.476                    | 4.850                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.476                    | 4.770                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.476                    | 4.850                | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.486                    | 4.840                | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.931                    | 9.640                | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.971                    | 9.420                | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 8.931                    | 9.580                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 8.931                    | 9.660                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 8.931                    | 9.640                | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 8.931                    | 9.600                | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.606                   | 14.280               | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.487                   | 14.670               | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.457                   | 14.640               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.457                   | 14.730               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.487                   | 14.670               | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.546                   | 14.370               | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 17.862                   | 19.280               | PASS    |



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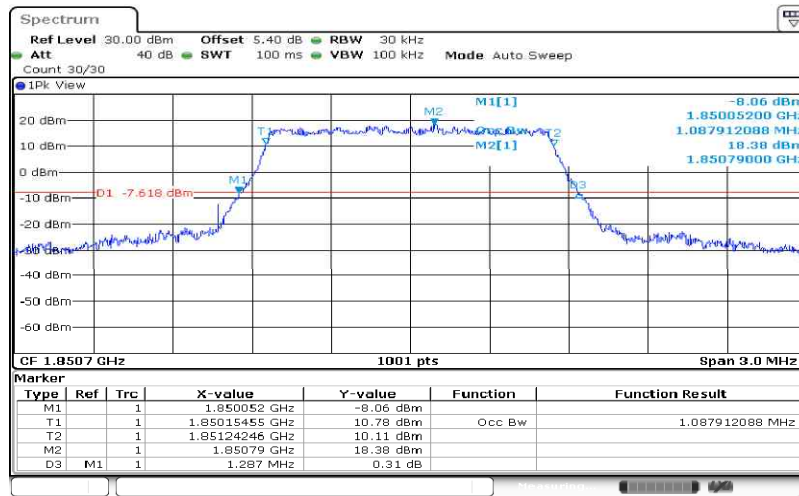
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|       |       |       |       |         |        |        |      |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 18.062 | 19.080 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 17.862 | 19.240 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 17.902 | 19.360 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 17.942 | 19.320 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.862 | 19.320 | PASS |

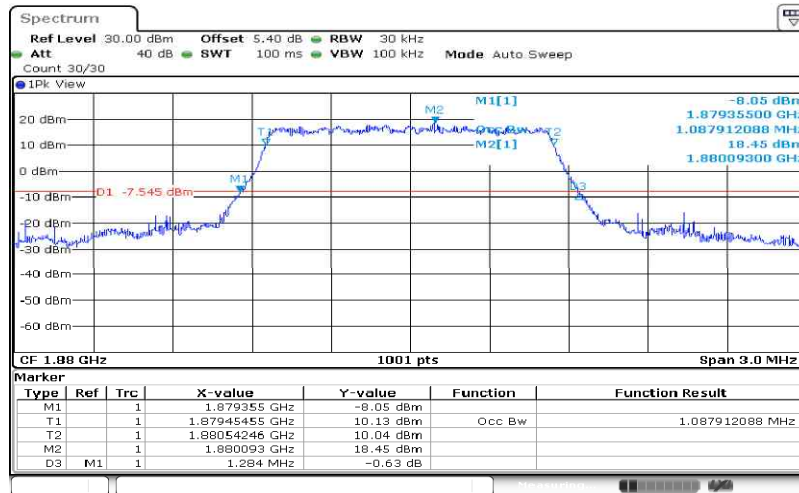
## 4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.088



Date: 3 JUN 2020 14:02:33

Band2-1.4MHz-QPSK-18900-6RB#0-1.088



Date: 3 JUN 2020 14:02:59

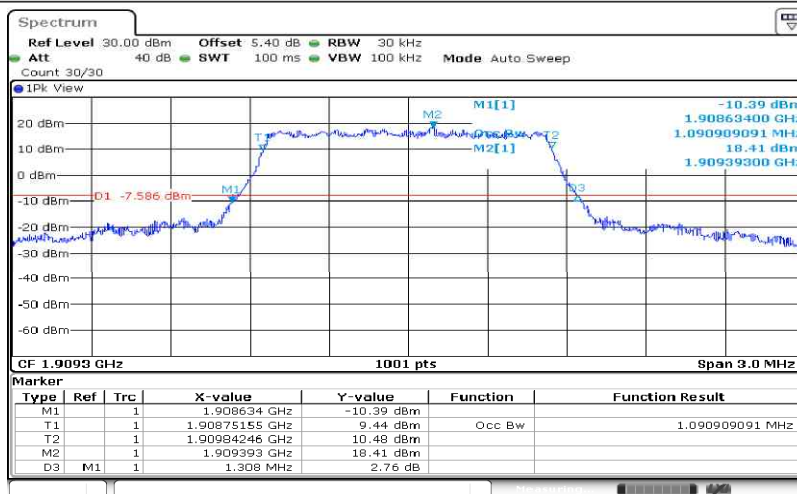


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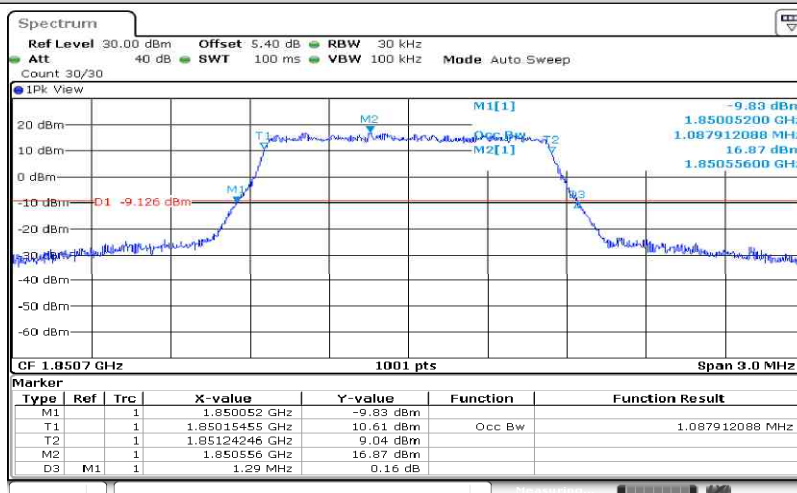


Band2-1.4MHz-QPSK-19193-6RB#0-1.091



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Band2-1.4MHz-16QAM-18607-6RB#0-1.088



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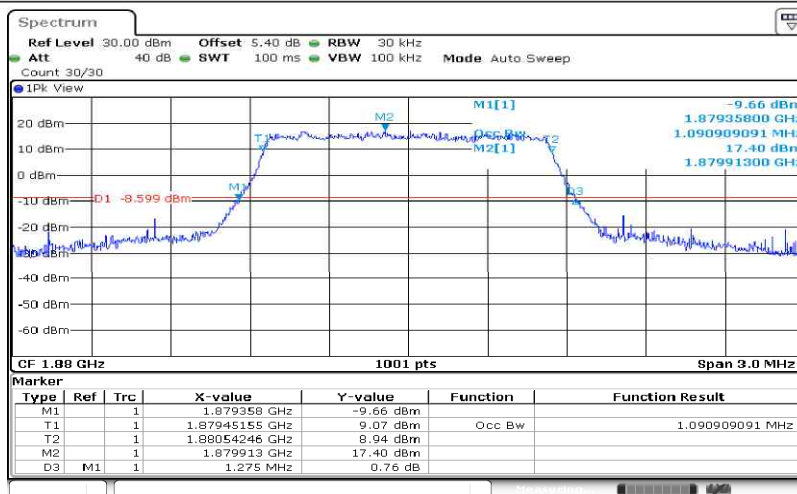
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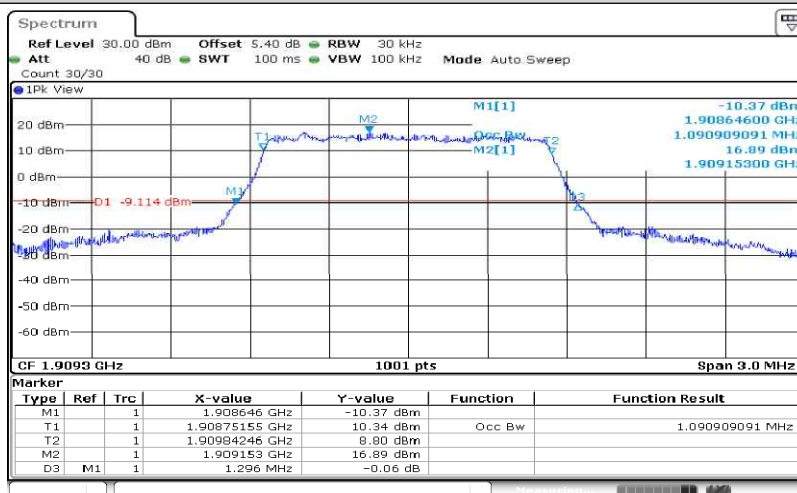


Band2-1.4MHz-16QAM-18900-6RB#0-1.091



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Band2-1.4MHz-16QAM-19193-6RB#0-1.091



Date: 3 JUN 2020 14:04:18



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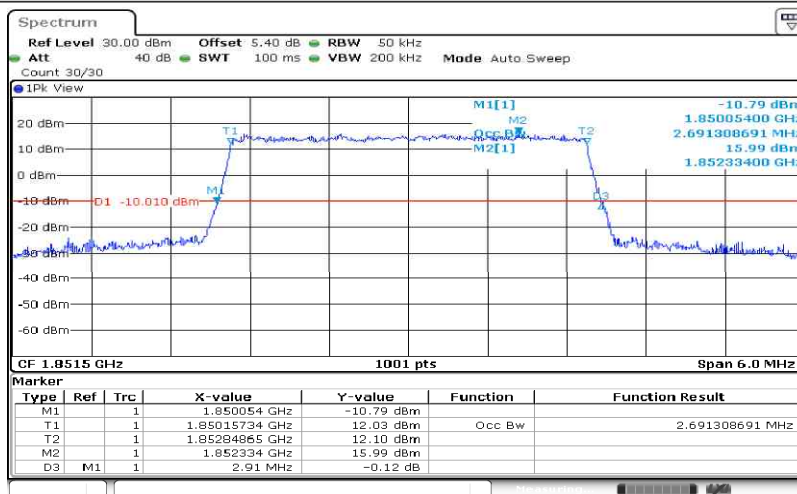
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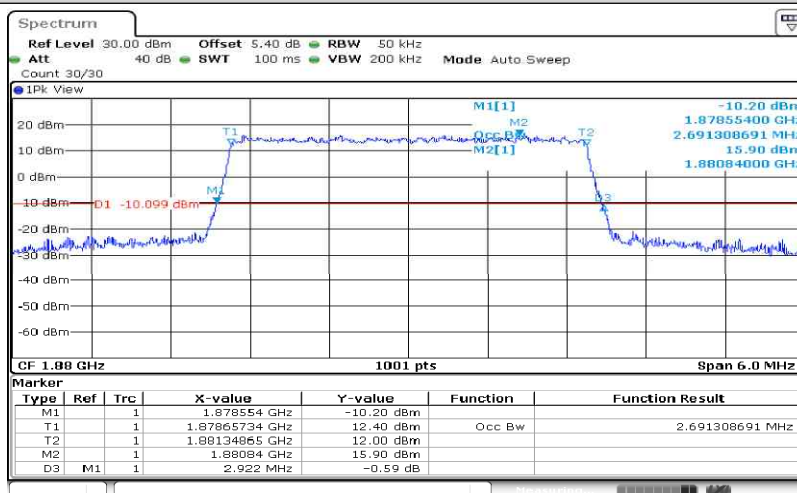


Band2-3MHz-QPSK-18615-15RB#0-2.691



Date: 3 JUN 2020 14:04:37

Band2-3MHz-QPSK-18900-15RB#0-2.691



Date: 3 JUN 2020 14:05:03



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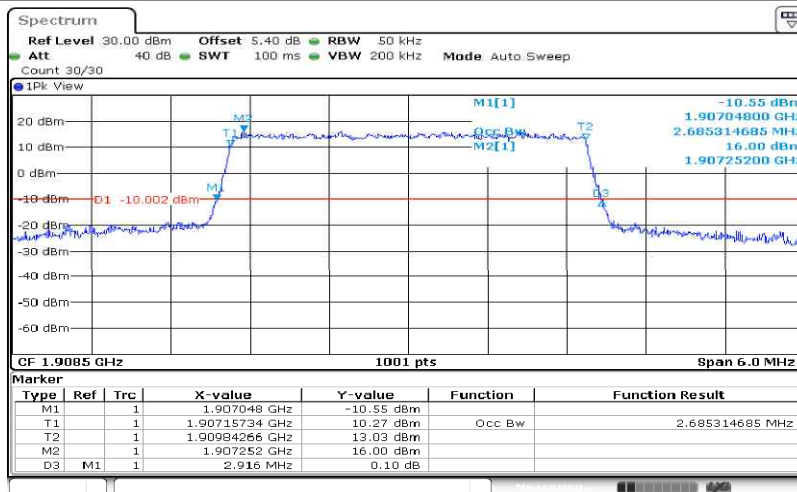
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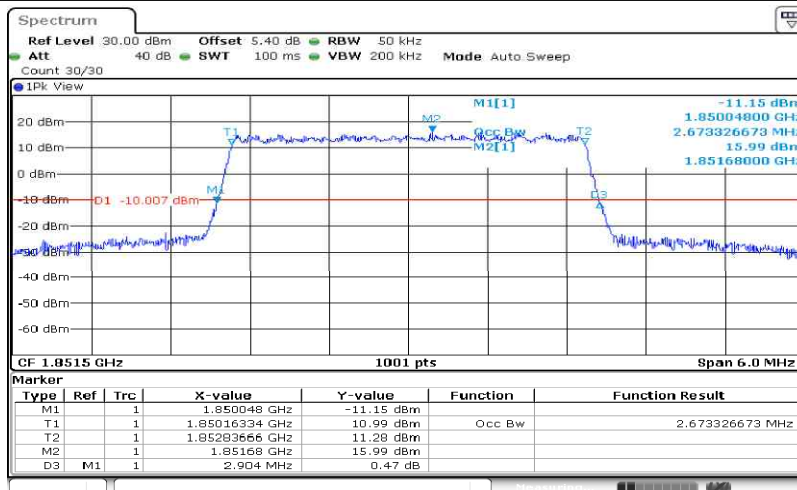


Band2-3MHz-QPSK-19185-15RB#0-2.685



Date: 3 JUN 2020 14:05:28

Band2-3MHz-16QAM-18615-15RB#0-2.673



Date: 3 JUN 2020 14:04:50



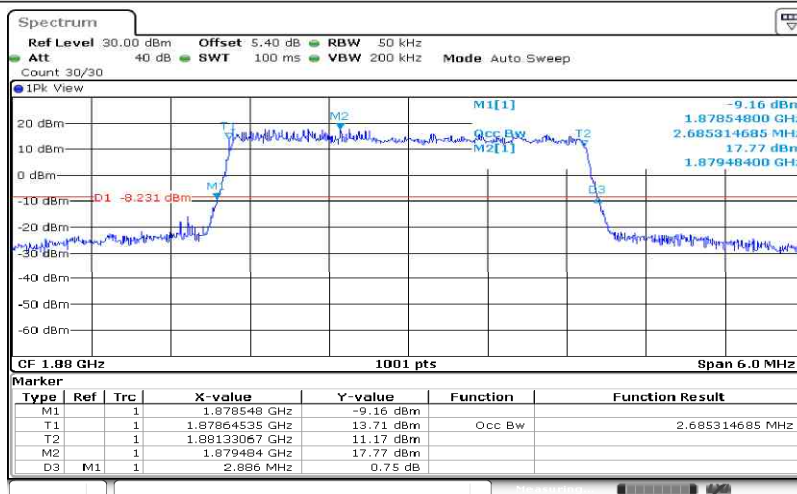
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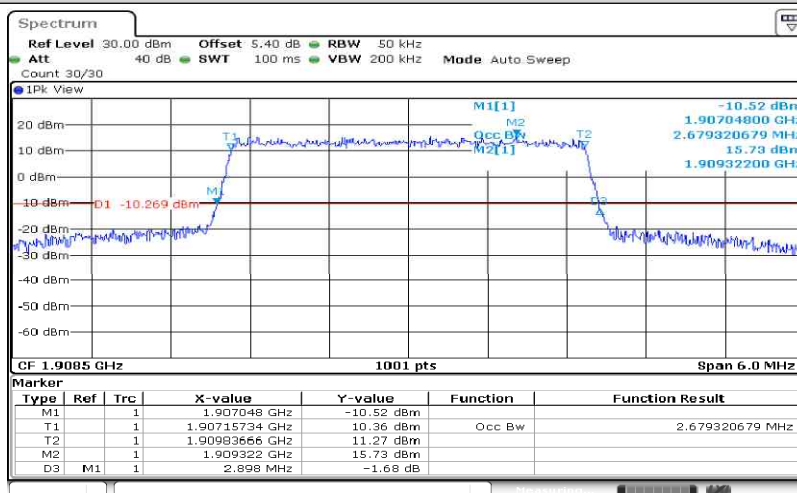


Band2-3MHz-16QAM-18900-15RB#0-2.685



Date: 3 JUN 2020 14:05:15

Band2-3MHz-16QAM-19185-15RB#0-2.679



Date: 3 JUN 2020 14:05:41

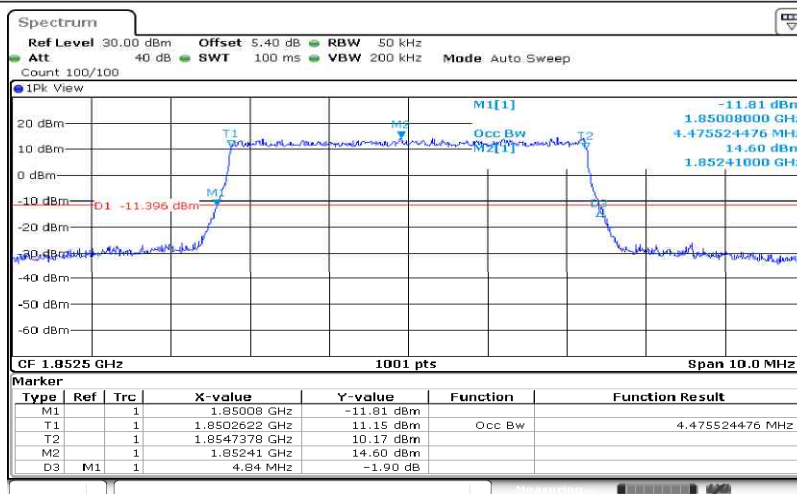


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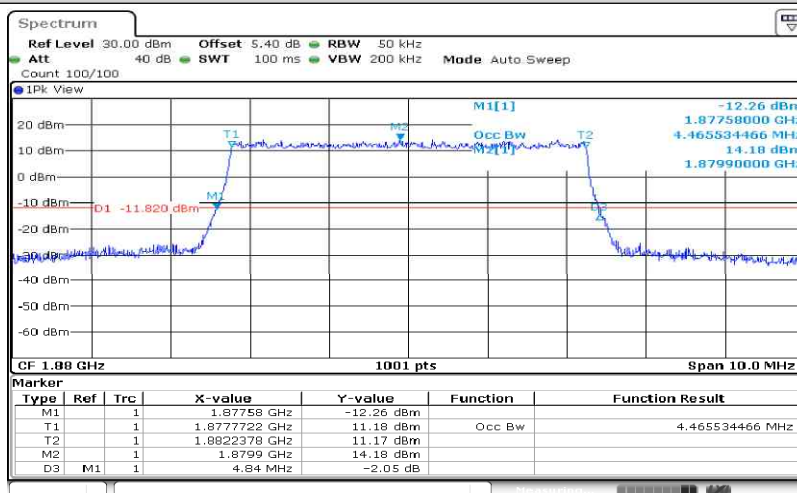


Band2-5MHz-QPSK-18625-25RB#0-4.476



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Band2-5MHz-QPSK-18900-25RB#0-4.466



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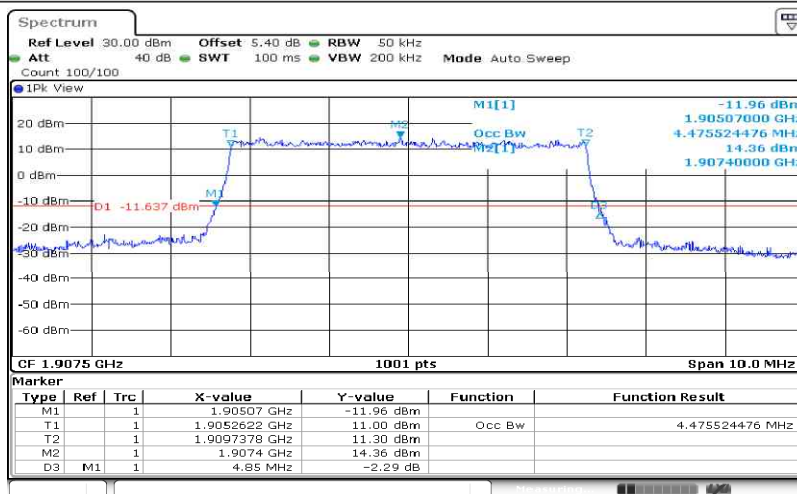
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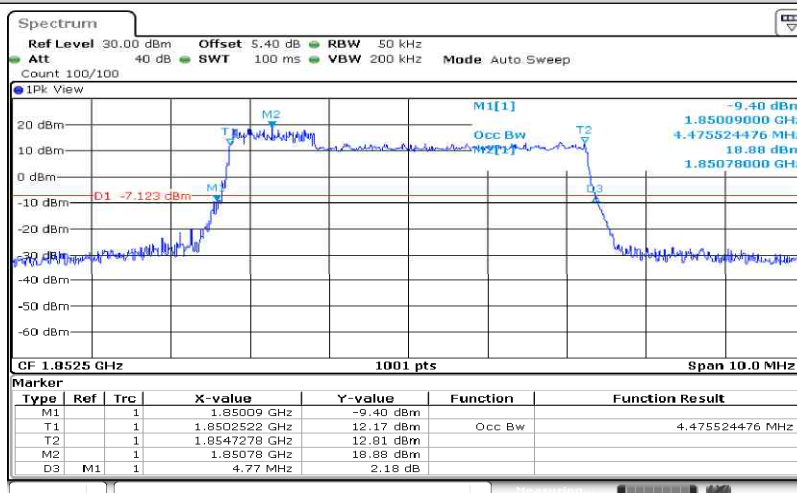


Band2-5MHz-QPSK-19175-25RB#0-4.476



Date: 3 JUN 2020 14:07:25

Band2-5MHz-16QAM-18625-25RB#0-4.476



Date: 3 JUN 2020 14:06:26



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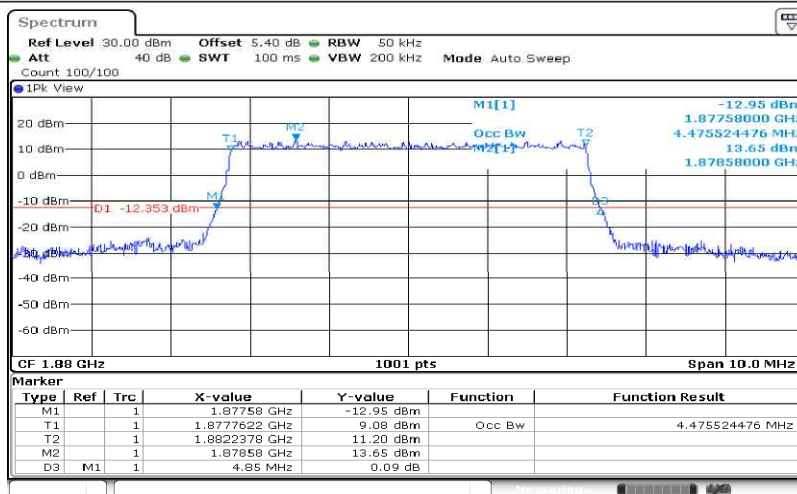
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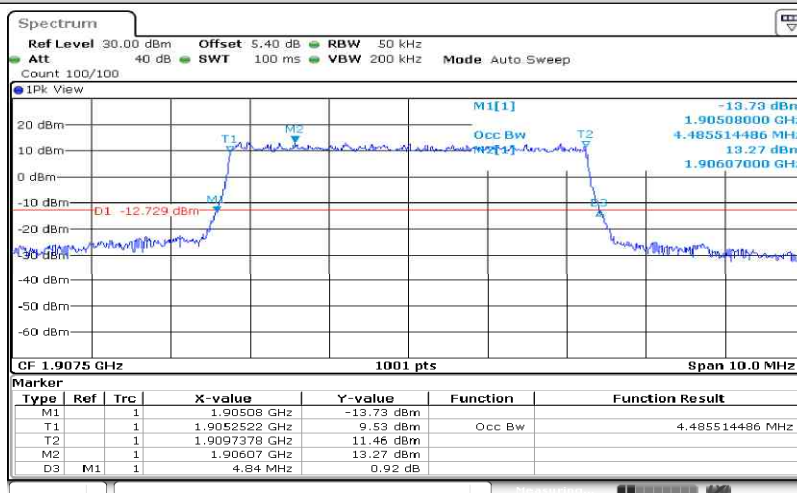


Band2-5MHz-16QAM-18900-25RB#0-4.476



Date: 3 JUN 2020 14:07:05

Band2-5MHz-16QAM-19175-25RB#0-4.486



Date: 3 JUN 2020 14:07:45



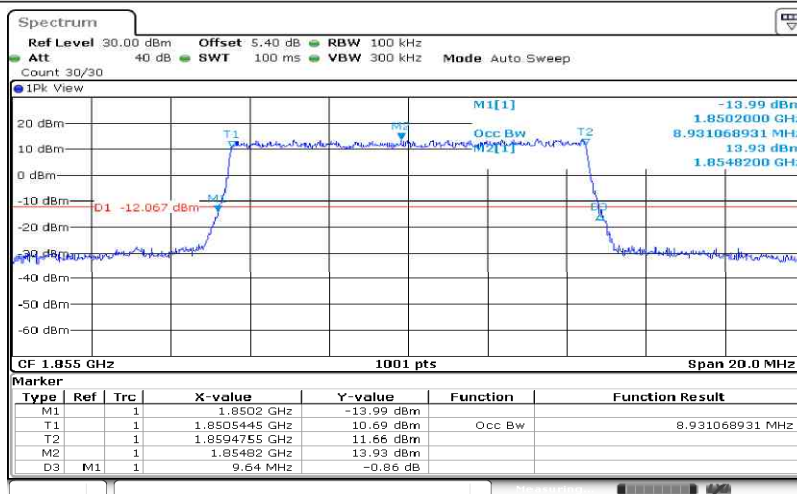
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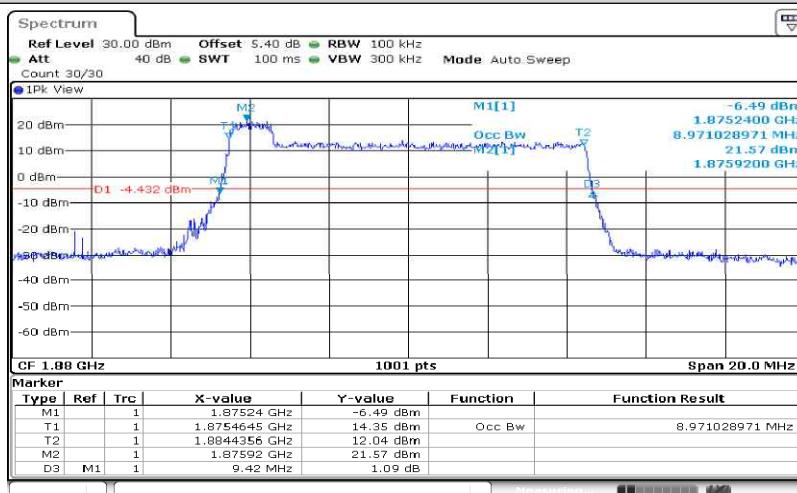


Band2-10MHz-QPSK-18650-50RB#0-8.931



Date: 3 JUN 2020 14:08:04

Band2-10MHz-QPSK-18900-50RB#0-8.971



Date: 3 JUN 2020 14:08:29



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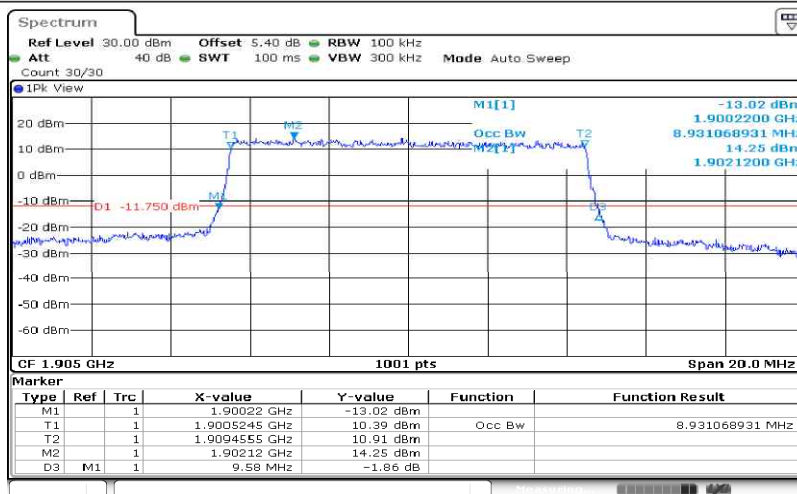
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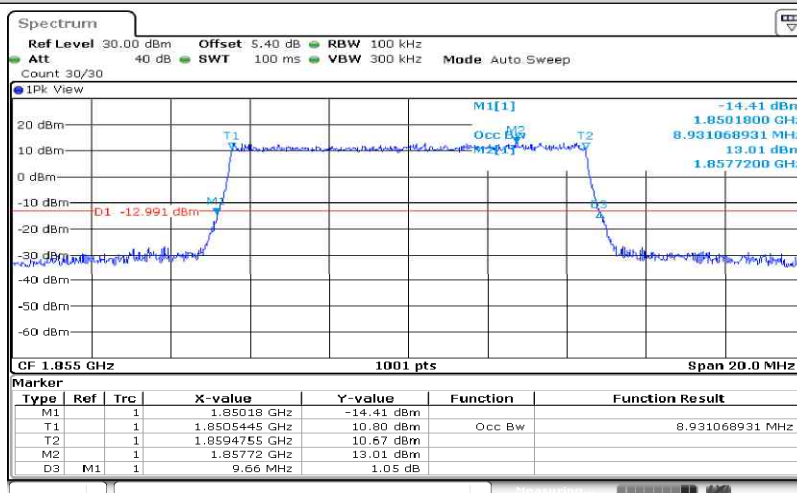


Band2-10MHz-QPSK-19150-50RB#0-8.931



Date: 3 JUN 2020 14:08:55

Band2-10MHz-16QAM-18650-50RB#0-8.931



Date: 3 JUN 2020 14:08:16



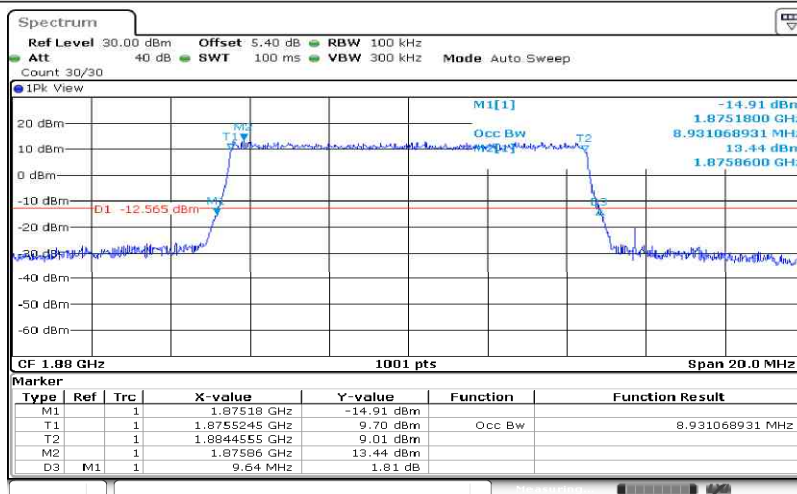
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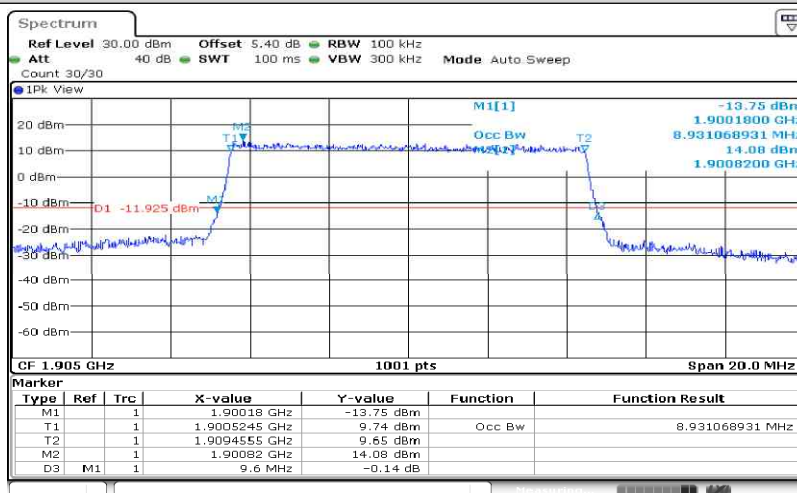
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Band2-10MHz-16QAM-18900-50RB#0-8.931



Date: 3 JUN 2020 14:08:42

Band2-10MHz-16QAM-19150-50RB#0-8.931



Date: 3 JUN 2020 14:09:07



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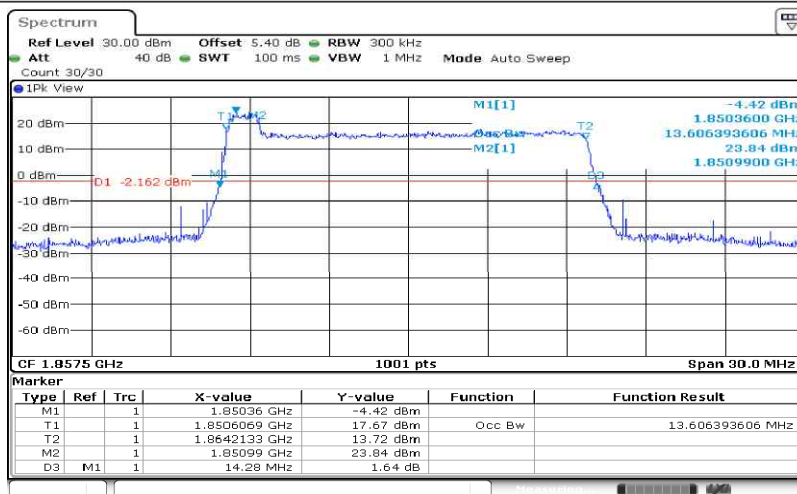
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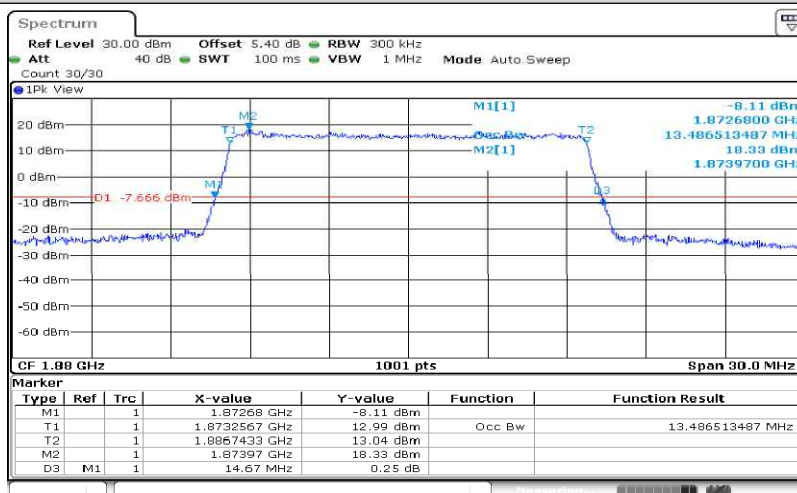


Band2-15MHz-QPSK-18675-75RB#0-13.606



Date: 3 JUN 2020 14:09:26

Band2-15MHz-QPSK-18900-75RB#0-13.487



Date: 3 JUN 2020 14:09:51



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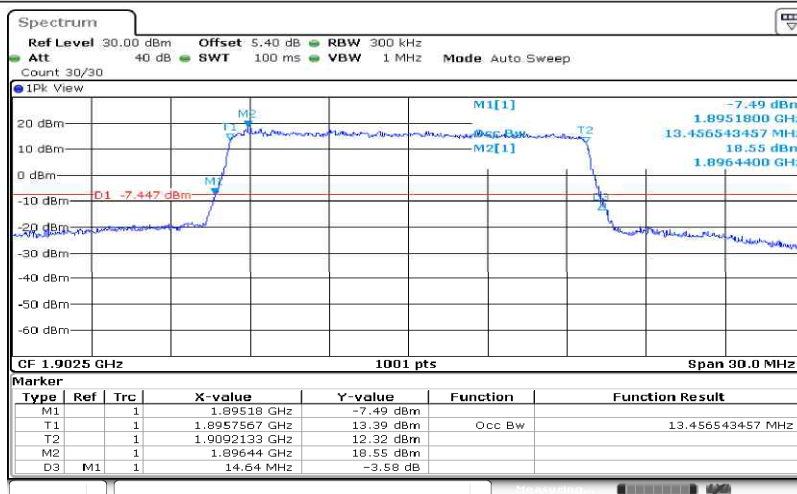
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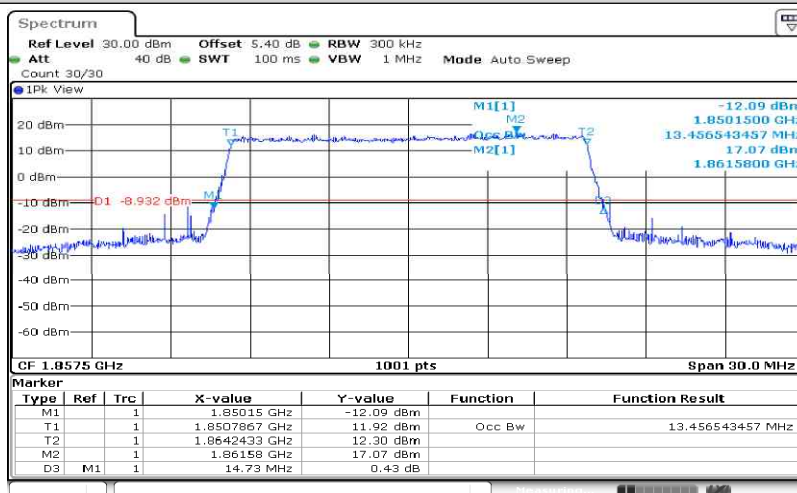


Band2-15MHz-QPSK-19125-75RB#0-13.457



Date: 3 JUN 2020 14:10:17

Band2-15MHz-16QAM-18675-75RB#0-13.457



Date: 3 JUN 2020 14:09:38



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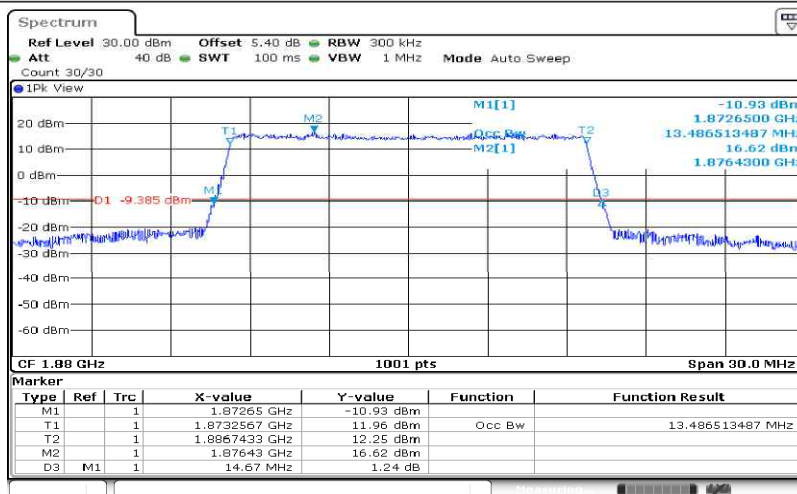
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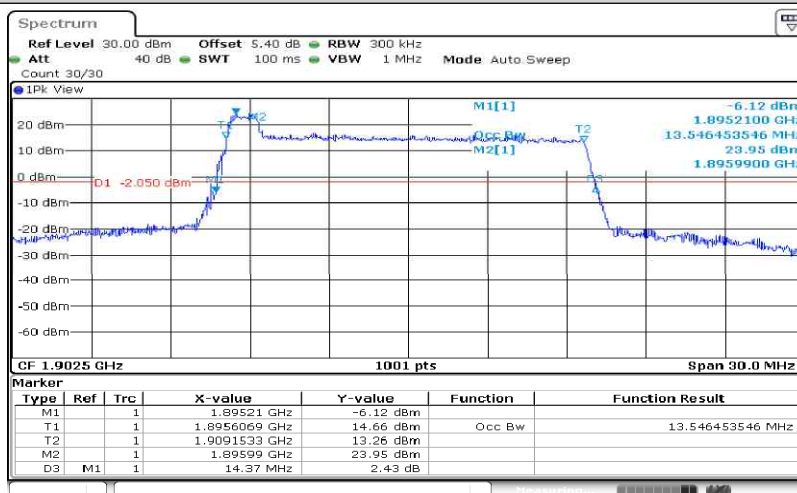


Band2-15MHz-16QAM-18900-75RB#0-13.487



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Band2-15MHz-16QAM-19125-75RB#0-13.546



Date: 3 JUN 2020 14:10:30



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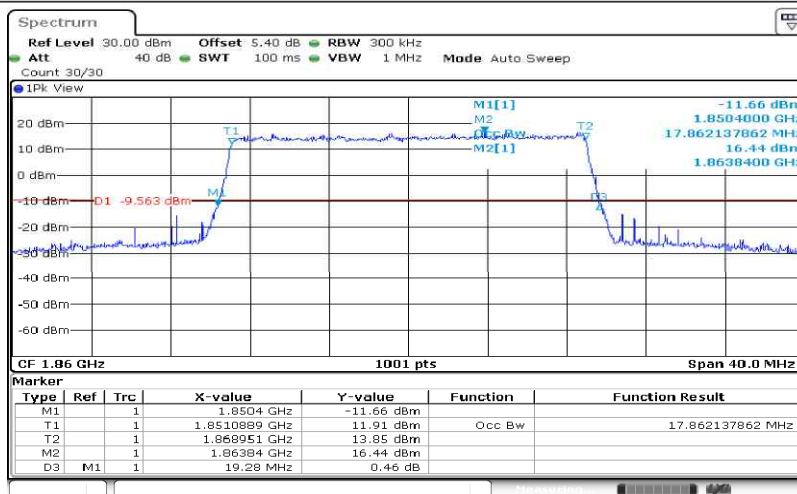
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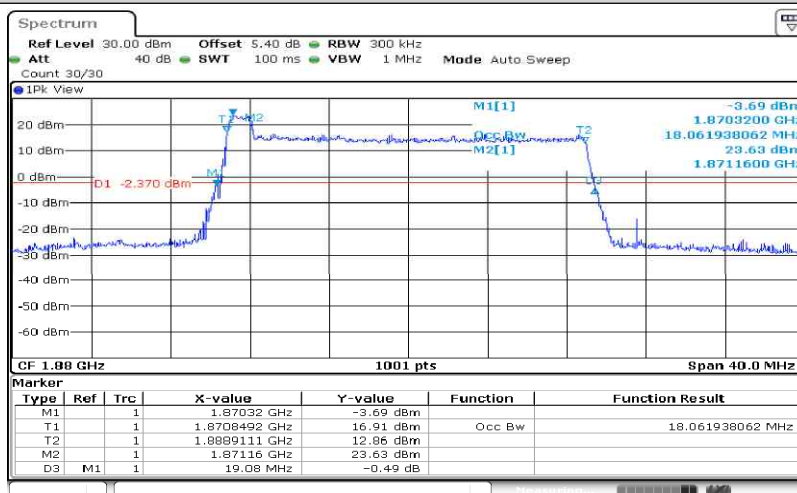


Band2-20MHz-QPSK-18700-100RB#0-17.862



Date: 3 JUN 2020 14:10:48

Band2-20MHz-QPSK-18900-100RB#0-18.062



Date: 3 JUN 2020 14:11:14



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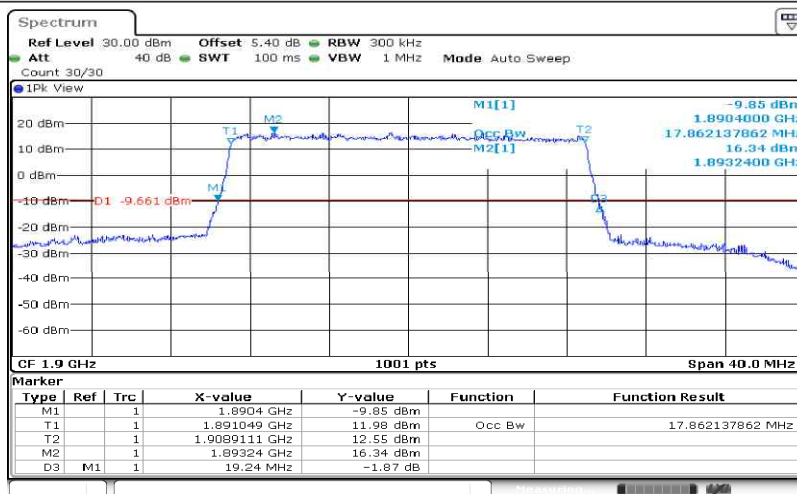
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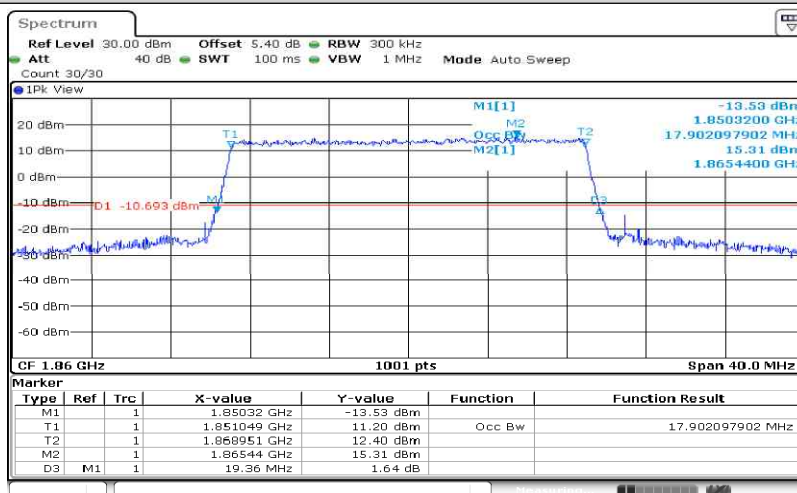


Band2-20MHz-QPSK-19100-100RB#0-17.862



Date: 3 JUN 2020 14:11:39

Band2-20MHz-16QAM-18700-100RB#0-17.902



Date: 3 JUN 2020 14:11:01



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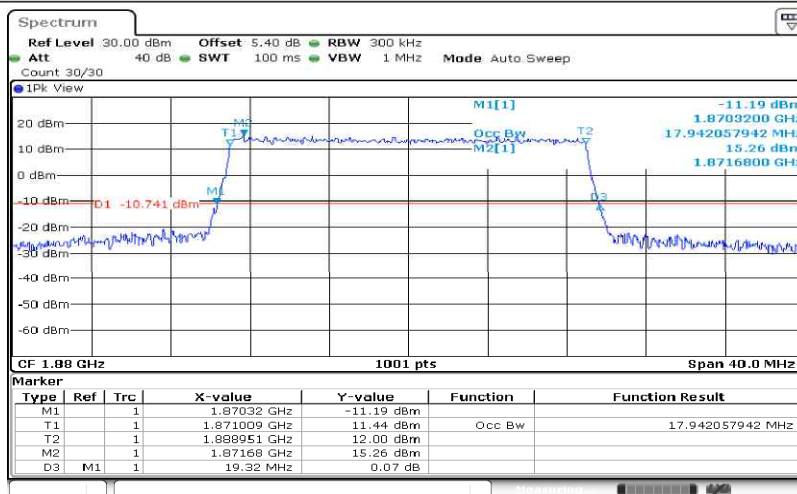
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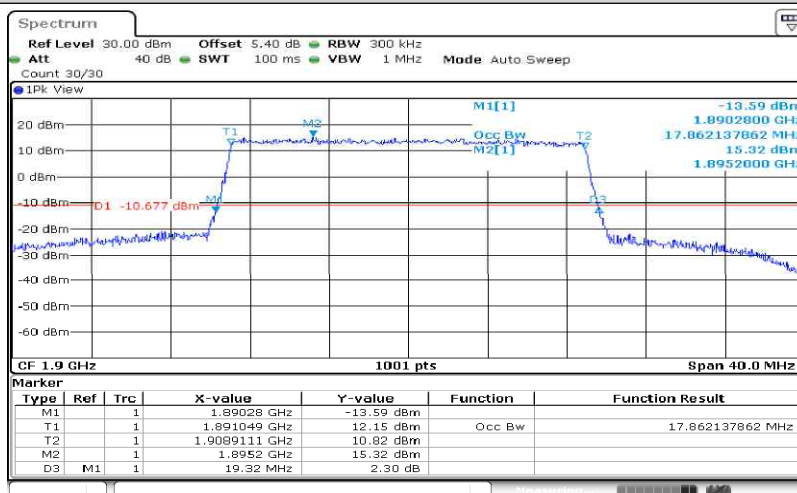


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Date: 3 JUN 2020 14:11:26

Band2-20MHz-16QAM-19100-100RB#0-17.862



Date: 3 JUN 2020 14:11:52



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## 5. Band Edge Compliance

### 5.1. Test Plots

Band2-1.4MHz-QPSK-18607-1RB#0



Date: 3 JUN 2020 14:12:18

Band2-1.4MHz-QPSK-18607-6RB#0



Date: 3 JUN 2020 14:15:11



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Band2-1.4MHz-QPSK-19193-1RB#5



Date: 3 JUN 2020 14:13:45

Band2-1.4MHz-QPSK-19193-6RB#0



Date: 3 JUN 2020 14:15:52





Band2-1.4MHz-16QAM-18607-1RB#0



Date: 3 JUN 2020 14:12:39

Band2-1.4MHz-16QAM-18607-6RB#0



Date: 3 JUN 2020 14:15:31





Band2-1.4MHz-16QAM-19193-1RB#5



Date: 3 JUN 2020 14:14:05

Band2-1.4MHz-16QAM-19193-6RB#0



Date: 3 JUN 2020 14:16:13



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Band2-3MHz-QPSK-18615-1RB#0



Date: 3 JUN 2020 14:16:39

Band2-3MHz-QPSK-18615-15RB#0



Date: 3 JUN 2020 14:19:31





Band2-3MHz-QPSK-19185-1RB#14



Date: 3 JUN 2020 14:18:05

Band2-3MHz-QPSK-19185-15RB#0



Date: 3 JUN 2020 14:20:13





Band2-3MHz-16QAM-18615-1RB#0



Date: 3 JUN 2020 14:16:59

Band2-3MHz-16QAM-18615-15RB#0



Date: 3 JUN 2020 14:19:52





Band2-3MHz-16QAM-19185-1RB#14



Date: 3 JUN 2020 14:18:26

Band2-3MHz-16QAM-19185-15RB#0



Date: 3 JUN 2020 14:20:33



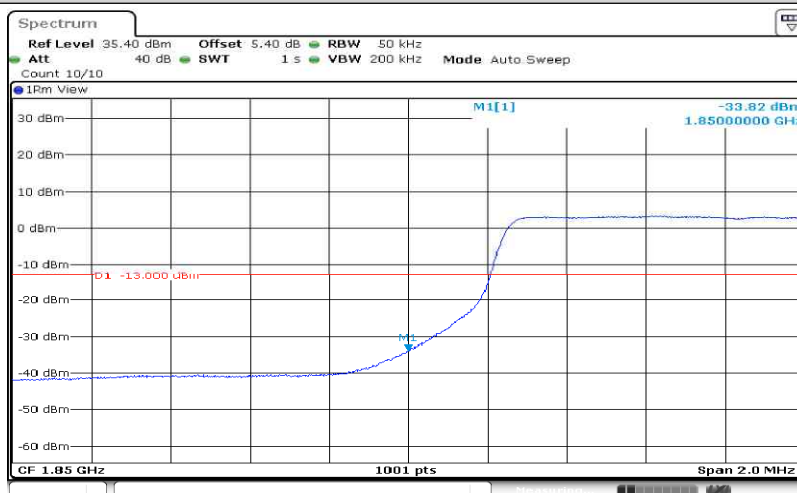


Band2-5MHz-QPSK-18625-1RB#0



Date: 3 JUN 2020 14:21:00

Band2-5MHz-QPSK-18625-25RB#0



Date: 3 JUN 2020 14:23:53



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Band2-5MHz-QPSK-19175-1RB#24



Date: 3 JUN 2020 14:22:26

Band2-5MHz-QPSK-19175-25RB#0



Date: 3 JUN 2020 14:24:34



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Band2-5MHz-16QAM-18625-1RB#0



Date: 3 JUN 2020 14:21:29

Band2-5MHz-16QAM-18625-25RB#0



Date: 3 JUN 2020 14:24:14



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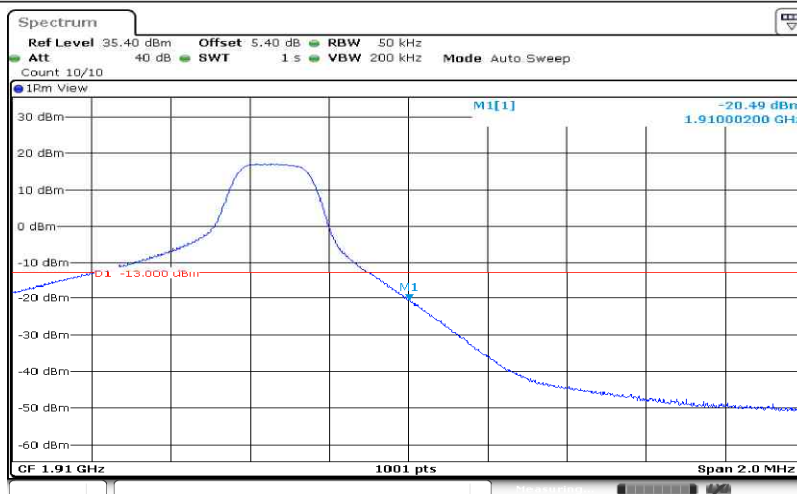
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Band2-5MHz-16QAM-19175-1RB#24



Date: 3 JUN 2020 14:22:47

Band2-5MHz-16QAM-19175-25RB#0

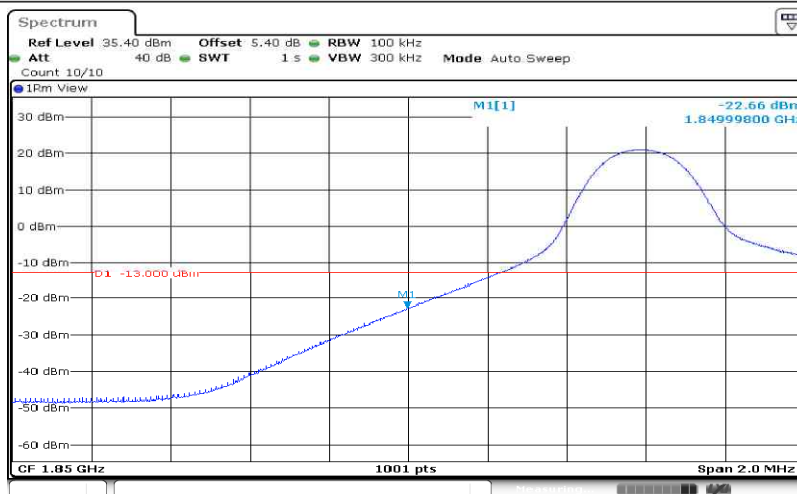


Date: 3 JUN 2020 14:24:55





Band2-10MHz-QPSK-18650-1RB#0



Date: 3 JUN 2020 14:25:22

Band2-10MHz-QPSK-18650-50RB#0



Date: 3 JUN 2020 14:28:14





Band2-10MHz-QPSK-19150-1RB#49



Date: 3 JUN 2020 14:26:48

Band2-10MHz-QPSK-19150-50RB#0



Date: 3 JUN 2020 14:28:56



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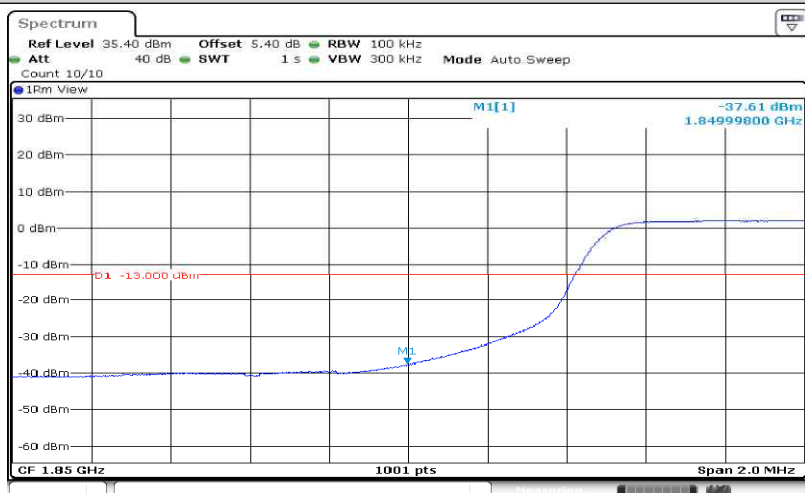


Band2-10MHz-16QAM-18650-1RB#0



Date: 3 JUN 2020 14:25:42

Band2-10MHz-16QAM-18650-50RB#0



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Band2-10MHz-16QAM-19150-1RB#49



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Band2-15MHz-QPSK-18675-1RB#0



Date: 3 JUN 2020 14:29:43

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



Date: 3 JUN 2020 14:32:37





Band2-15MHz-QPSK-19125-1RB#74



Date: 3 JUN 2020 14:31:10

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

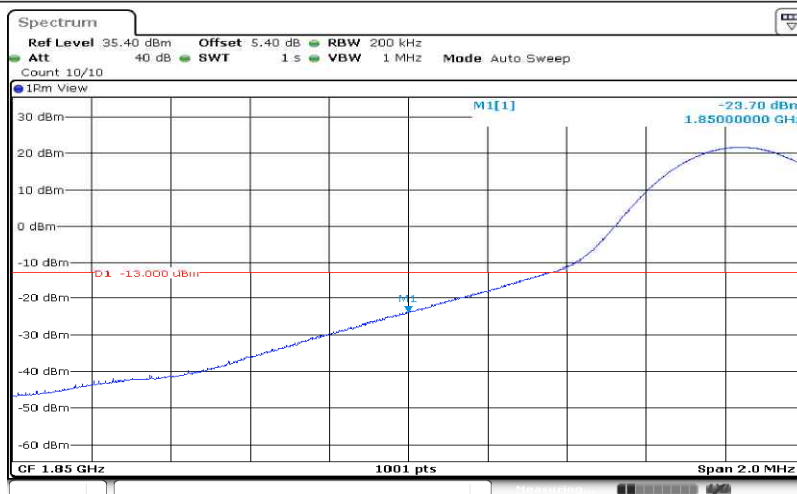


Date: 3 JUN 2020 14:33:19





Band2-15MHz-16QAM-18675-1RB#0



Date: 3 JUN 2020 14:30:04

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



Date: 3 JUN 2020 14:32:58





Band2-15MHz-16QAM-19125-1RB#74



Date: 3 JUN 2020 14:31:31

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



Date: 3 JUN 2020 14:33:39



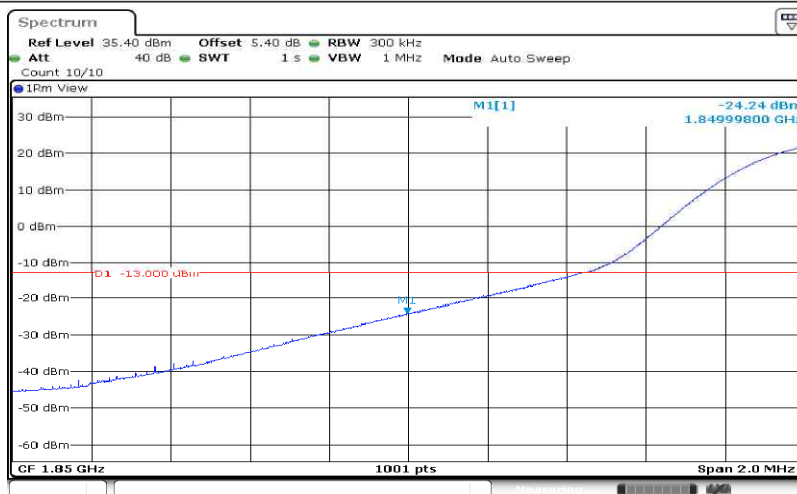
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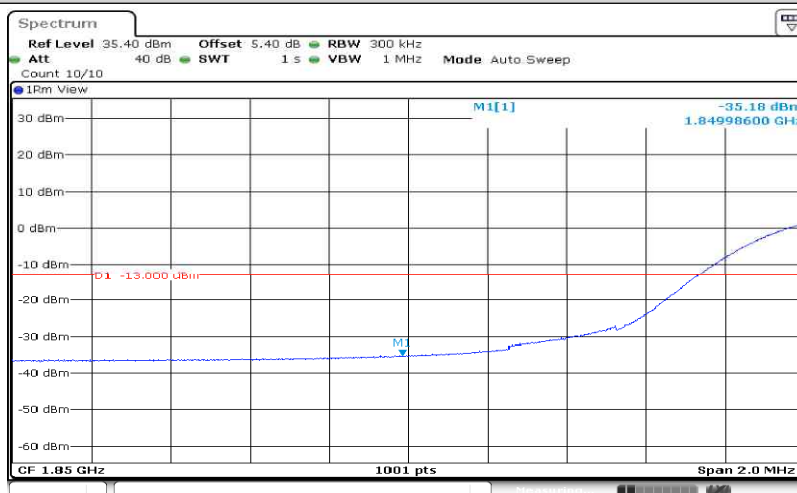
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Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0



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Band2-20MHz-QPSK-19100-1RB#99



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Band2-20MHz-QPSK-19100-100RB#0



Date: 3 JUN 2020 14:37:41



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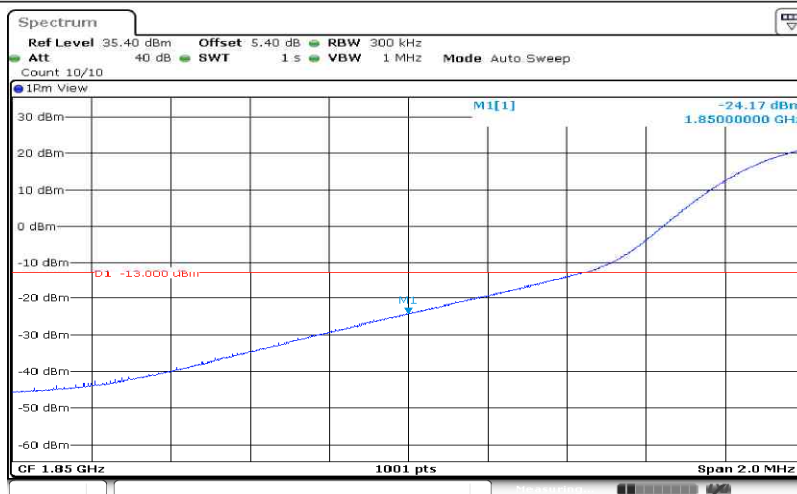
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Band2-20MHz-16QAM-18700-1RB#0



Date: 3 JUN 2020 14:34:26

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



Date: 3 JUN 2020 14:37:20



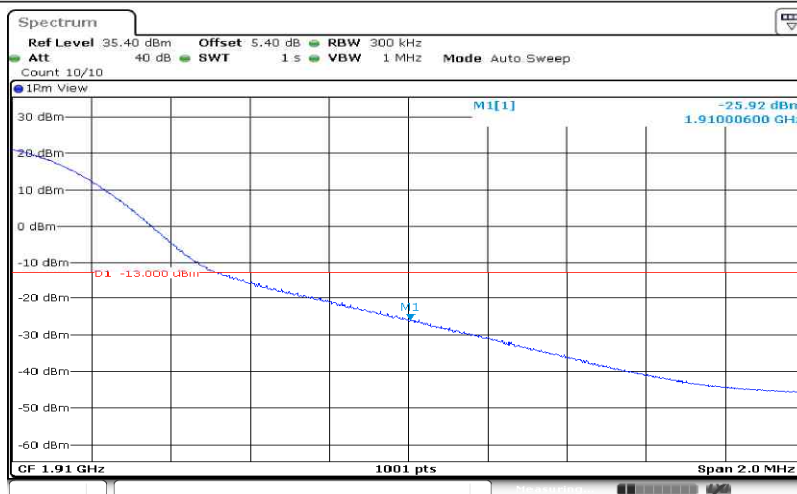
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Band2-20MHz-16QAM-19100-1RB#99



Date: 3 JUN 2020 14:35:54

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



Date: 3 JUN 2020 14:38:02



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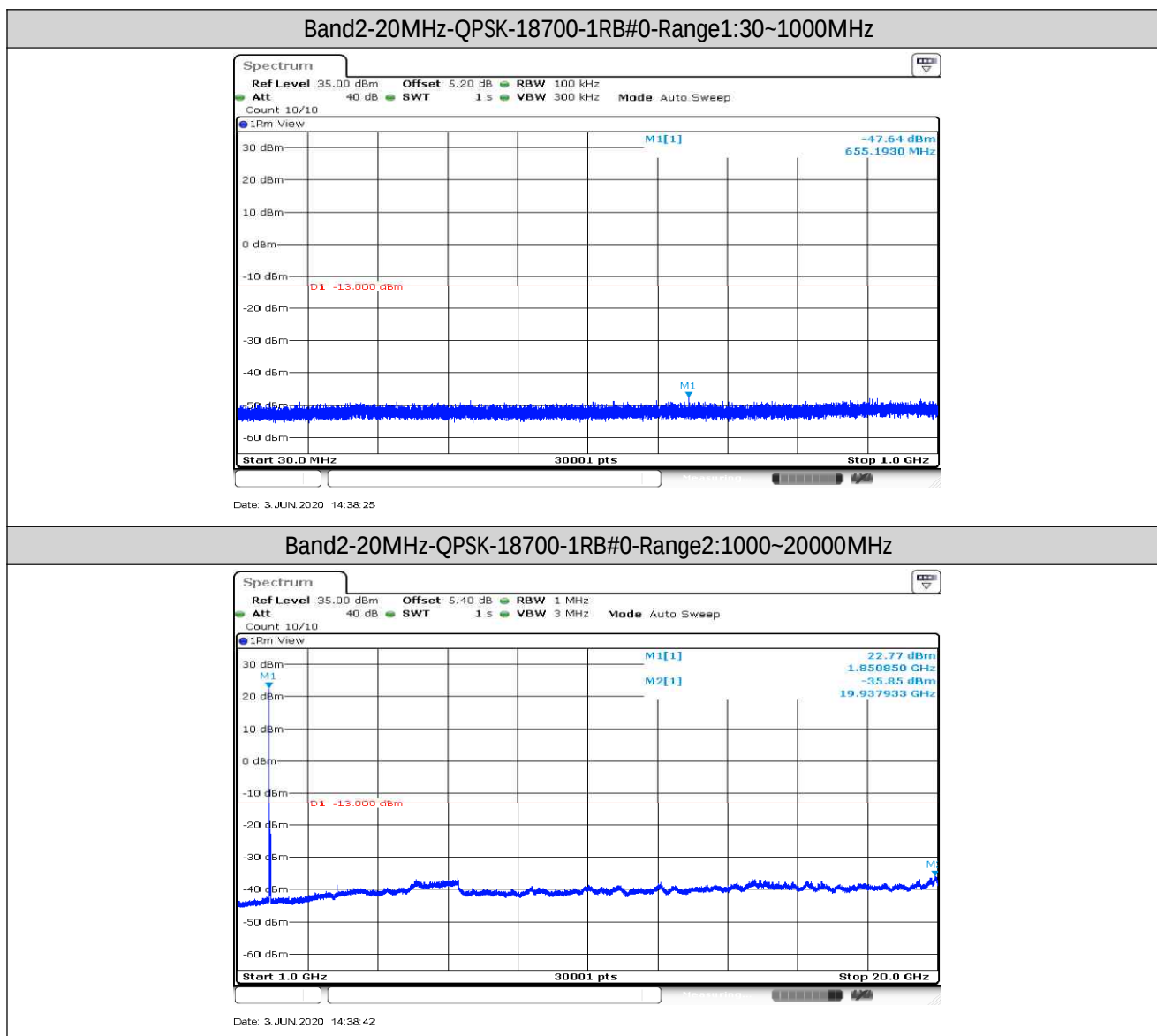


## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

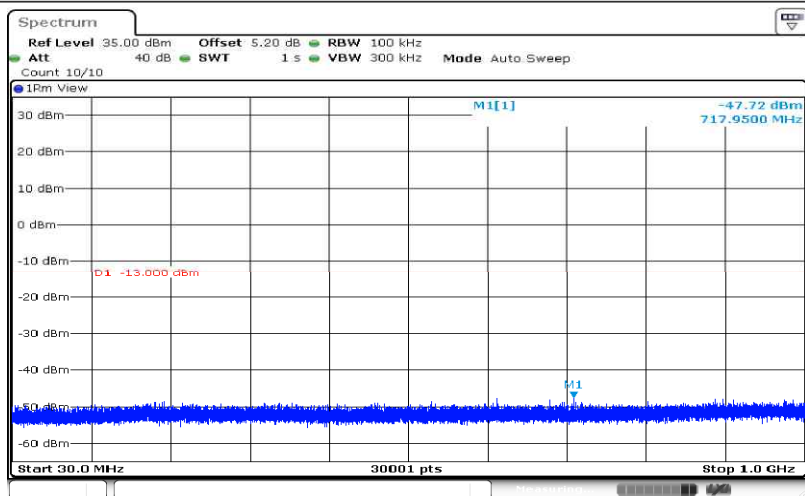
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



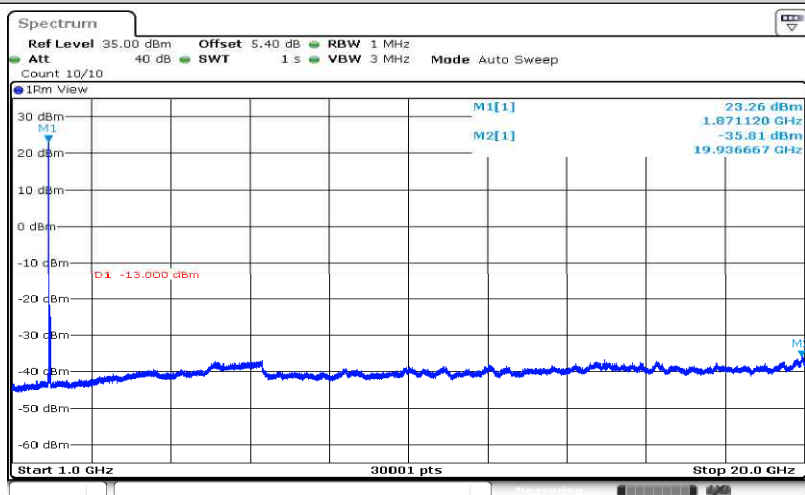


Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 14:39:36

Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 14:39:52



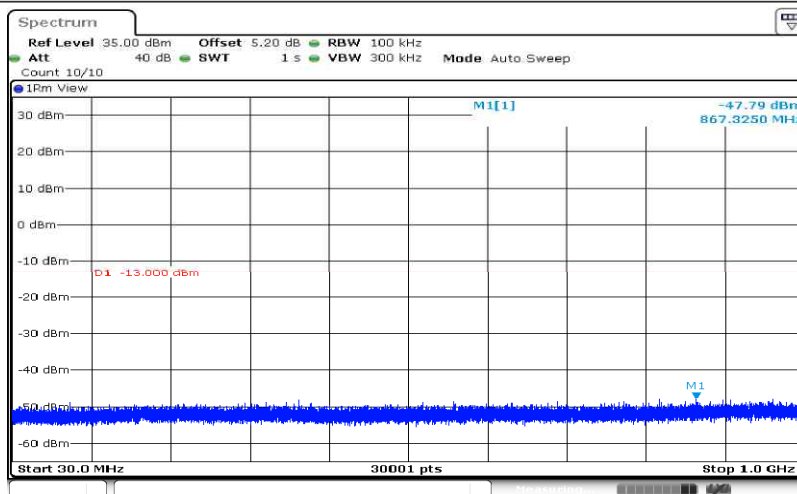
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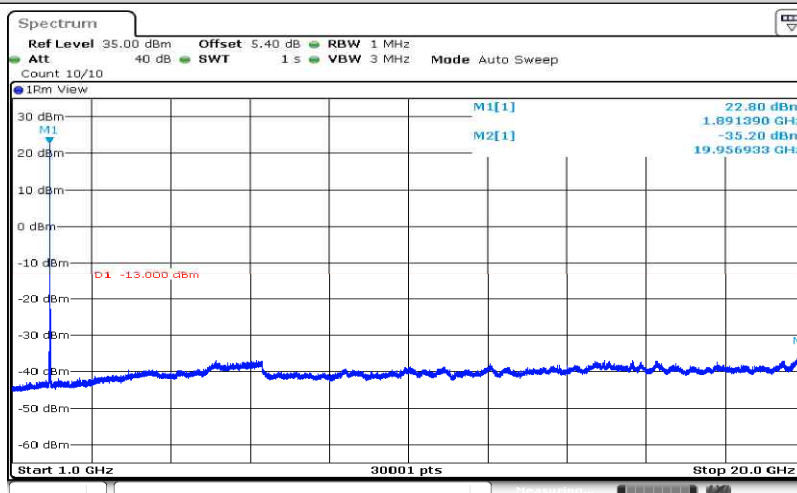


Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 14:40:46

Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz

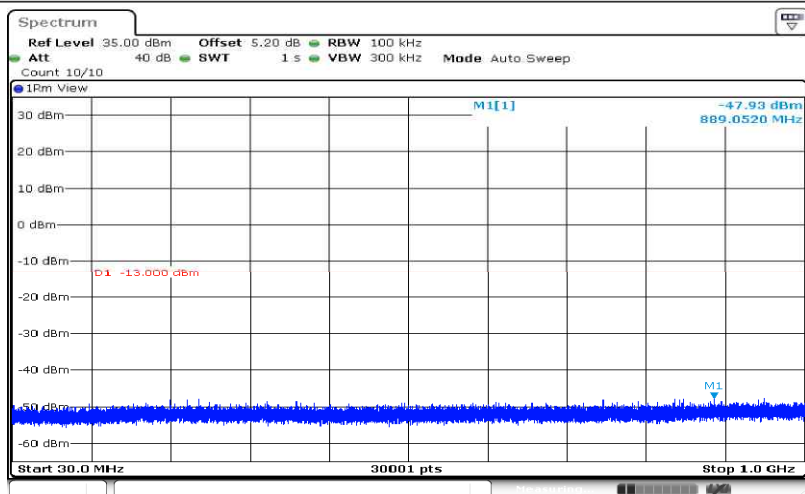


Date: 3 JUN 2020 14:41:02



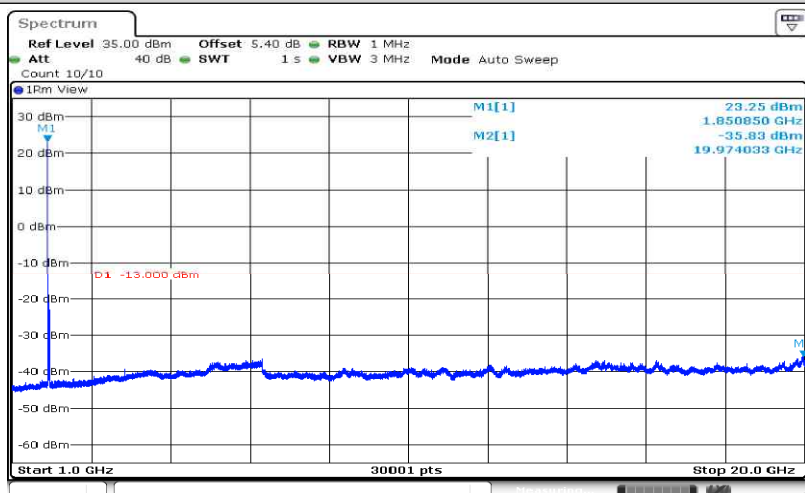


Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 14:39:01

Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 14:39:17



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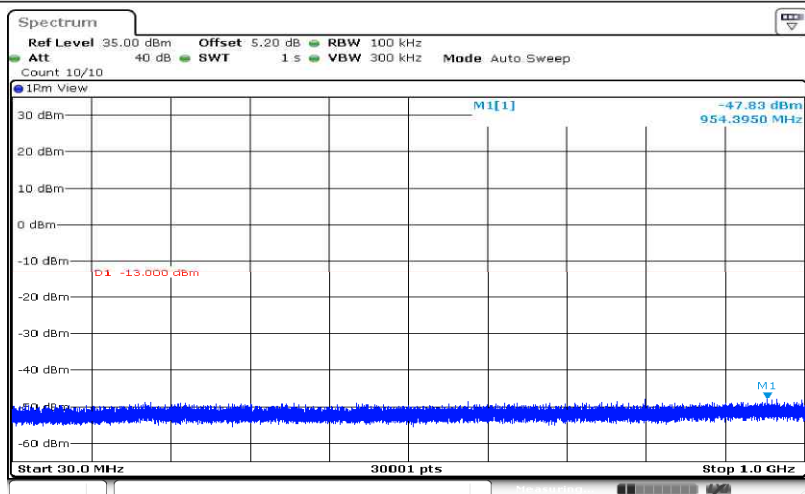
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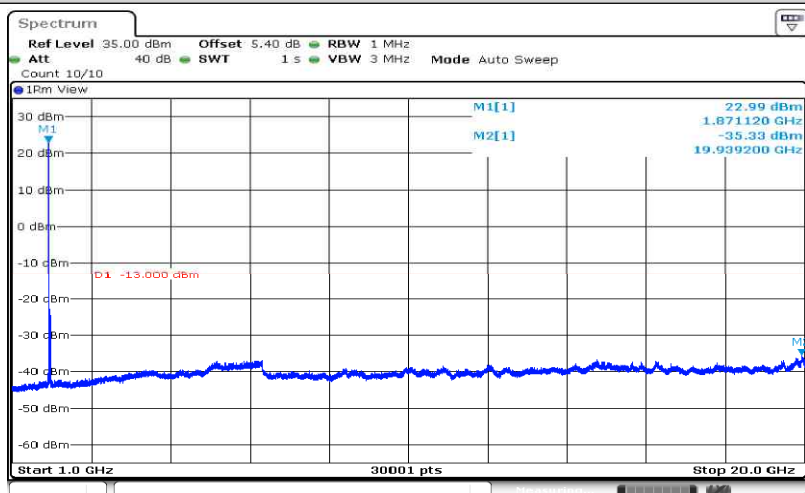


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 14:40:11

Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz



Date: 3 JUN 2020 14:40:27

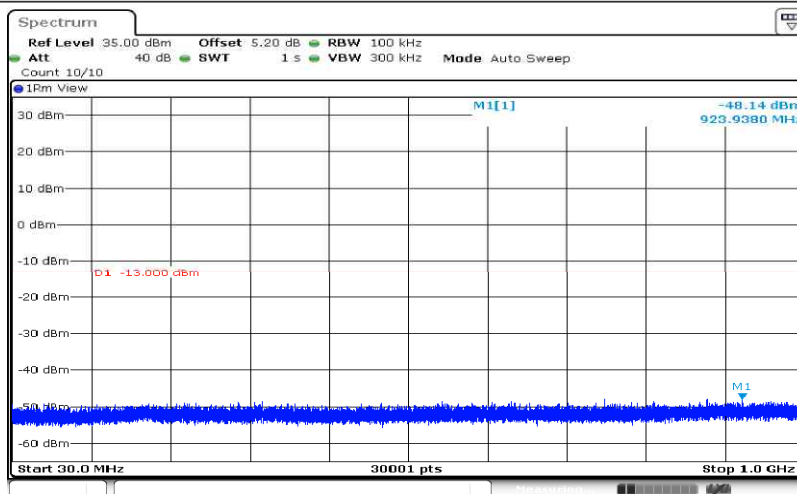


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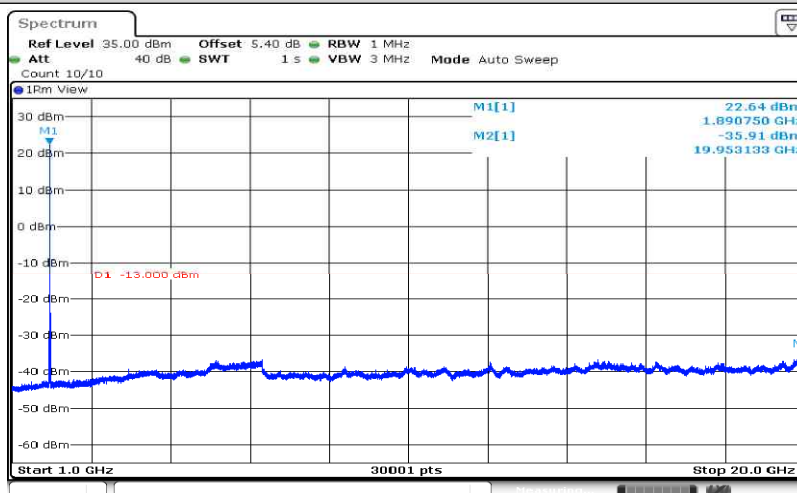


Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz



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Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.3614        | -66.04      | -13.00           | 53.04       | Vertical     |
| 761.9501        | -63.09      | -13.00           | 50.09       | Vertical     |
| 2709.9420       | -37.96      | -13.00           | 24.96       | Vertical     |
| 3738.0246       | -61.33      | -13.00           | 48.33       | Vertical     |
| 14491.8831      | -48.10      | -13.00           | 35.10       | Vertical     |
| 17996.9999      | -40.50      | -13.00           | 27.50       | Vertical     |
| 42.1741         | -63.93      | -13.00           | 50.93       | Horizontal   |
| 238.8514        | -69.03      | -13.00           | 56.03       | Horizontal   |
| 2700.7401       | -36.63      | -13.00           | 23.63       | Horizontal   |
| 3737.5246       | -59.37      | -13.00           | 46.37       | Horizontal   |
| 7447.1482       | -56.50      | -13.00           | 43.50       | Horizontal   |
| 16399.9467      | -43.92      | -13.00           | 30.92       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.2230        | -65.42      | -13.00           | 52.42       | Vertical     |
| 744.9257        | -63.27      | -13.00           | 50.27       | Vertical     |
| 2579.9160       | -37.01      | -13.00           | 24.01       | Vertical     |
| 3778.0259       | -59.82      | -13.00           | 46.82       | Vertical     |
| 14488.8830      | -48.08      | -13.00           | 35.08       | Vertical     |
| 17999.0000      | -40.32      | -13.00           | 27.32       | Vertical     |
| 43.3382         | -63.78      | -13.00           | 50.78       | Horizontal   |
| 233.7587        | -68.98      | -13.00           | 55.98       | Horizontal   |
| 2695.1390       | -36.75      | -13.00           | 23.75       | Horizontal   |
| 3777.5259       | -57.75      | -13.00           | 44.75       | Horizontal   |
| 9330.7110       | -52.58      | -13.00           | 39.58       | Horizontal   |
| 16393.9465      | -44.13      | -13.00           | 31.13       | Horizontal   |



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### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.1745        | -64.51      | -13.00           | 51.51       | Vertical     |
| 741.0456        | -63.56      | -13.00           | 50.56       | Vertical     |
| 2588.3177       | -37.80      | -13.00           | 24.80       | Vertical     |
| 3818.0273       | -57.95      | -13.00           | 44.95       | Vertical     |
| 14489.3830      | -47.57      | -13.00           | 34.57       | Vertical     |
| 17994.4998      | -40.50      | -13.00           | 27.50       | Vertical     |
| 42.8046         | -64.36      | -13.00           | 51.36       | Horizontal   |
| 232.4006        | -68.50      | -13.00           | 55.50       | Horizontal   |
| 2697.9396       | -36.60      | -13.00           | 23.60       | Horizontal   |
| 3817.5273       | -54.24      | -13.00           | 41.24       | Horizontal   |
| 9314.2105       | -53.03      | -13.00           | 40.03       | Horizontal   |
| 16385.4462      | -44.16      | -13.00           | 31.16       | Horizontal   |

#### Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth<br>h | Modulation | Channel | RB<br>Configure | Voltage<br>[Vdc] | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-------|----------------|------------|---------|-----------------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | VL               | NT                  | -2.10             | -0.001129          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | VN               | NT                  | -2.20             | -0.001183          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | VH               | NT                  | -2.10             | -0.001129          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | VL               | NT                  | -13.10            | -0.006968          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | VN               | NT                  | -13.60            | -0.007234          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | VH               | NT                  | -12.20            | -0.006489          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 19100   | 100RB#0         | VL               | NT                  | -10.00            | -0.005263          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 19100   | 100RB#0         | VN               | NT                  | -1.90             | -0.001000          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 19100   | 100RB#0         | VH               | NT                  | -0.80             | -0.000421          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18700   | 100RB#0         | VL               | NT                  | -8.70             | -0.004677          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18700   | 100RB#0         | VN               | NT                  | -11.10            | -0.005968          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18700   | 100RB#0         | VH               | NT                  | -8.00             | -0.004301          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18900   | 100RB#0         | VL               | NT                  | -6.90             | -0.003670          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18900   | 100RB#0         | VN               | NT                  | -6.90             | -0.003670          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 18900   | 100RB#0         | VH               | NT                  | -8.70             | -0.004628          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 19100   | 100RB#0         | VL               | NT                  | -3.20             | -0.001684          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 19100   | 100RB#0         | VN               | NT                  | -8.40             | -0.004421          | ±2.5           | PASS    |
| Band2 | 20MHz          | 16QAM      | 19100   | 100RB#0         | VH               | NT                  | -3.20             | -0.001684          | ±2.5           | PASS    |

### 8.2. Frequency Vs Temperature

| Band  | Bandwidth<br>h | Modulation | Channel | RB<br>Configure | Voltage<br>[Vdc] | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-------|----------------|------------|---------|-----------------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | -30                 | -1.20             | -0.000645          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | -20                 | -9.60             | -0.005161          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 0                   | -1.30             | -0.000699          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 10                  | -3.30             | -0.001774          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 20                  | -0.90             | -0.000484          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 30                  | -2.40             | -0.001290          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 40                  | -4.60             | -0.002473          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18700   | 100RB#0         | NV               | 50                  | -9.10             | -0.004892          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | NV               | -30                 | -15.50            | -0.008245          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | NV               | -20                 | -8.40             | -0.004468          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | NV               | 0                   | -9.50             | -0.005053          | ±2.5           | PASS    |
| Band2 | 20MHz          | QPSK       | 18900   | 100RB#0         | NV               | 10                  | -1.10             | -0.000585          | ±2.5           | PASS    |



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|       |       |       |       |         |    |     |        |           |      |      |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | NV | 20  | -4.30  | -0.002287 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | NV | 30  | -8.30  | -0.004415 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | NV | 40  | -9.50  | -0.005053 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | NV | 50  | -9.70  | -0.005160 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | -30 | -1.90  | -0.001000 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | -20 | 2.20   | 0.001158  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 0   | -11.00 | -0.005789 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 10  | -9.00  | -0.004737 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 20  | 1.70   | 0.000895  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 30  | -5.10  | -0.002684 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 40  | -2.80  | -0.001474 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 50  | -2.10  | -0.001105 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -30 | -3.30  | -0.001774 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -20 | -3.10  | -0.001667 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 0   | -8.80  | -0.004731 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 10  | 2.70   | 0.001452  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 20  | -9.30  | -0.005000 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 30  | -4.90  | -0.002634 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 40  | -3.50  | -0.001882 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 50  | -8.00  | -0.004301 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -30 | -15.10 | -0.008032 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -20 | -14.50 | -0.007713 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 0   | -7.50  | -0.003989 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 10  | -4.80  | -0.002553 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 20  | -11.30 | -0.006011 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 30  | -12.90 | -0.006862 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 40  | -6.40  | -0.003404 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 50  | -4.50  | -0.002394 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -30 | -2.80  | -0.001474 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -20 | -3.70  | -0.001947 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 0   | -7.30  | -0.003842 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 10  | -4.50  | -0.002368 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 20  | -12.70 | -0.006684 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 30  | -2.00  | -0.001053 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 40  | -10.30 | -0.005421 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 50  | -3.70  | -0.001947 | ±2.5 | PASS |



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