

# Appendix B

## E-UTRA Band 2



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## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 23.61                | 23.41      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#2            | 23.70                | 23.50      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#5            | 23.59                | 23.39      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#1            | 23.63                | 23.43      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#0            | 23.61                | 23.41      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#3            | 23.87                | 23.67      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 22.67                | 22.47      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#5            | 23.71                | 23.51      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 23.65                | 23.45      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#2            | 23.80                | 23.60      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#0            | 23.66                | 23.46      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#1            | 23.88                | 23.68      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#3            | 23.89                | 23.69      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 22.66                | 22.46      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#2            | 23.55                | 23.35      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#5            | 23.20                | 23.00      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 23.63                | 23.43      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#0            | 23.76                | 23.56      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#3            | 23.40                | 23.20      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#1            | 23.69                | 23.49      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 22.74                | 22.54      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#2            | 22.58                | 22.38      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#5            | 22.05                | 21.85      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 22.43                | 22.23      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#0            | 22.85                | 22.65      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#1            | 22.97                | 22.77      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#3            | 22.89                | 22.69      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 21.74                | 21.54      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#5            | 22.61                | 22.41      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 22.11                | 21.91      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#2            | 22.22                | 22.02      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#3            | 22.82                | 22.62      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#1            | 22.80                | 22.60      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#0            | 22.80                | 22.60      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 21.86                | 21.66      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#2            | 22.43                | 22.23      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#5            | 22.15                | 21.95      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#0            | 22.64                | 22.44      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 3RB#3            | 22.81                | 22.61      | 33.00       | PASS    |



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|       |        |       |       |        |       |       |       |      |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#1  | 22.79 | 22.59 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#0  | 22.78 | 22.58 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0  | 21.66 | 21.46 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#14 | 23.65 | 23.45 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#0  | 23.85 | 23.65 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#8  | 23.49 | 23.29 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#7  | 22.66 | 22.46 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#4  | 22.73 | 22.53 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#0  | 22.46 | 22.26 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 22.56 | 22.36 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#14 | 23.62 | 23.42 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#8  | 23.65 | 23.45 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#0  | 23.78 | 23.58 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#7  | 22.77 | 22.57 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#0  | 22.63 | 22.43 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#4  | 22.83 | 22.63 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 22.74 | 22.54 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#14 | 23.30 | 23.10 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#8  | 23.27 | 23.07 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#0  | 23.78 | 23.58 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#4  | 22.52 | 22.32 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#0  | 22.56 | 22.36 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#7  | 22.37 | 22.17 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 15RB#0 | 22.78 | 22.58 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#8  | 22.26 | 22.06 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#14 | 22.22 | 22.02 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#0  | 22.31 | 22.11 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#0  | 21.55 | 21.35 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#7  | 21.67 | 21.47 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#4  | 21.63 | 21.43 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 15RB#0 | 21.71 | 21.51 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#8  | 22.18 | 21.98 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#14 | 22.52 | 22.32 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#0  | 22.09 | 21.89 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 8RB#4  | 21.59 | 21.39 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 8RB#0  | 21.53 | 21.33 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 8RB#7  | 21.48 | 21.28 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 15RB#0 | 21.81 | 21.61 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#14 | 22.24 | 22.04 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#0  | 22.19 | 21.99 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#8  | 22.19 | 21.99 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 8RB#0  | 21.48 | 21.28 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 8RB#7  | 21.48 | 21.28 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 8RB#4  | 21.75 | 21.55 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 15RB#0 | 21.73 | 21.53 | 33.00 | PASS |
| Band2 | 5MHz   | QPSK  | 18625 | 1RB#24 | 23.76 | 23.56 | 33.00 | PASS |
| Band2 | 5MHz   | QPSK  | 18625 | 1RB#12 | 23.73 | 23.53 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 5MHz  | QPSK  | 18625 | 1RB#0   | 23.54 | 23.34 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#6  | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#0  | 22.54 | 22.34 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#13 | 22.75 | 22.55 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 25RB#0  | 22.62 | 22.42 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#24  | 23.67 | 23.47 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#0   | 23.73 | 23.53 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#12  | 23.52 | 23.32 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#6  | 22.68 | 22.48 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#0  | 22.49 | 22.29 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#13 | 22.77 | 22.57 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 25RB#0  | 22.71 | 22.51 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#0   | 23.68 | 23.48 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#12  | 23.24 | 23.04 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#24  | 23.09 | 22.89 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#0  | 22.98 | 22.78 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#6  | 22.46 | 22.26 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#13 | 22.33 | 22.13 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 25RB#0  | 22.67 | 22.47 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#0   | 22.01 | 21.81 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#12  | 22.63 | 22.43 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#24  | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#13 | 21.77 | 21.57 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#0  | 21.50 | 21.30 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#6  | 21.62 | 21.42 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 25RB#0  | 21.67 | 21.47 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#0   | 22.25 | 22.05 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#12  | 22.81 | 22.61 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#24  | 22.12 | 21.92 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#0  | 21.52 | 21.32 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#13 | 21.48 | 21.28 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#6  | 21.63 | 21.43 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 25RB#0  | 21.67 | 21.47 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#0   | 22.14 | 21.94 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#24  | 21.94 | 21.74 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#12  | 22.39 | 22.19 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#0  | 21.57 | 21.37 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#6  | 21.41 | 21.21 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#13 | 21.66 | 21.46 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 25RB#0  | 21.65 | 21.45 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0   | 23.67 | 23.47 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#24  | 23.55 | 23.35 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49  | 23.36 | 23.16 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#12 | 22.78 | 22.58 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#0  | 22.87 | 22.67 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#25 | 22.62 | 22.42 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0  | 22.64 | 22.44 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49  | 23.90 | 23.70 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0   | 23.62 | 23.42 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#24  | 23.89 | 23.69 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#0  | 22.67 | 22.47 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#12 | 22.83 | 22.63 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#25 | 22.88 | 22.68 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0  | 22.67 | 22.47 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#24  | 23.25 | 23.05 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49  | 23.16 | 22.96 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0   | 23.47 | 23.27 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#0  | 22.54 | 22.34 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#25 | 22.62 | 22.42 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#12 | 22.84 | 22.64 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0  | 22.54 | 22.34 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24  | 22.82 | 22.62 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49  | 22.31 | 22.11 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0   | 22.17 | 21.97 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#0  | 21.77 | 21.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#12 | 21.76 | 21.56 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#25 | 21.74 | 21.54 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0  | 21.77 | 21.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49  | 22.25 | 22.05 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0   | 22.16 | 21.96 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24  | 22.41 | 22.21 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#25 | 21.67 | 21.47 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#12 | 21.71 | 21.51 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#0  | 21.82 | 21.62 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0  | 21.73 | 21.53 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24  | 22.46 | 22.26 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49  | 22.63 | 22.43 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0   | 22.13 | 21.93 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#25 | 21.59 | 21.39 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#12 | 21.57 | 21.37 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#0  | 21.85 | 21.65 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 21.60 | 21.40 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74  | 23.00 | 22.80 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0   | 23.74 | 23.54 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38  | 23.73 | 23.53 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#39 | 22.49 | 22.29 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#18 | 22.73 | 22.53 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#0  | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 22.76 | 22.56 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74  | 23.76 | 23.56 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38  | 23.86 | 23.66 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0   | 23.60 | 23.40 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#0  | 22.60 | 22.40 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#39 | 22.89 | 22.69 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 15MHz | QPSK  | 18900 | 36RB#18 | 22.81 | 22.61 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 22.74 | 22.54 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74  | 23.32 | 23.12 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38  | 23.95 | 23.75 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0   | 23.44 | 23.24 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#18 | 22.85 | 22.65 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#0  | 22.61 | 22.41 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#39 | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 22.65 | 22.45 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 22.66 | 22.46 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 22.77 | 22.57 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#0  | 21.72 | 21.52 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#39 | 21.81 | 21.61 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#18 | 21.76 | 21.56 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 21.72 | 21.52 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 22.22 | 22.02 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 22.17 | 21.97 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 22.22 | 22.02 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#18 | 21.79 | 21.59 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#0  | 21.62 | 21.42 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#39 | 21.76 | 21.56 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 21.69 | 21.49 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 22.51 | 22.31 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 22.61 | 22.41 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 22.54 | 22.34 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#0  | 21.76 | 21.56 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#39 | 21.50 | 21.30 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#18 | 21.77 | 21.57 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 21.80 | 21.60 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | 23.24 | 23.04 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#49  | 23.74 | 23.54 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 23.54 | 23.34 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#25 | 22.70 | 22.50 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#0  | 22.55 | 22.35 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#50 | 22.32 | 22.12 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 22.79 | 22.59 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 23.81 | 23.61 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 23.51 | 23.31 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#49  | 23.63 | 23.43 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#25 | 22.73 | 22.53 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#0  | 22.71 | 22.51 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#50 | 22.84 | 22.64 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 22.65 | 22.45 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 23.75 | 23.55 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#49  | 23.73 | 23.53 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 23.52 | 23.32 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 20MHz | QPSK  | 19100 | 50RB#0  | 22.69 | 22.49 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#25 | 22.80 | 22.60 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#50 | 22.97 | 22.77 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 22.67 | 22.47 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 22.35 | 22.15 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49  | 22.23 | 22.03 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 22.46 | 22.26 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#50 | 21.69 | 21.49 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#0  | 21.81 | 21.61 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#25 | 21.84 | 21.64 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 21.74 | 21.54 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 22.11 | 21.91 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49  | 22.41 | 22.21 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 22.26 | 22.06 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#0  | 21.69 | 21.49 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#50 | 21.77 | 21.57 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#25 | 21.78 | 21.58 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 21.79 | 21.59 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 22.38 | 22.18 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 22.22 | 22.02 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49  | 22.17 | 21.97 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#0  | 21.55 | 21.35 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#25 | 21.78 | 21.58 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#50 | 21.68 | 21.48 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 21.57 | 21.37 | 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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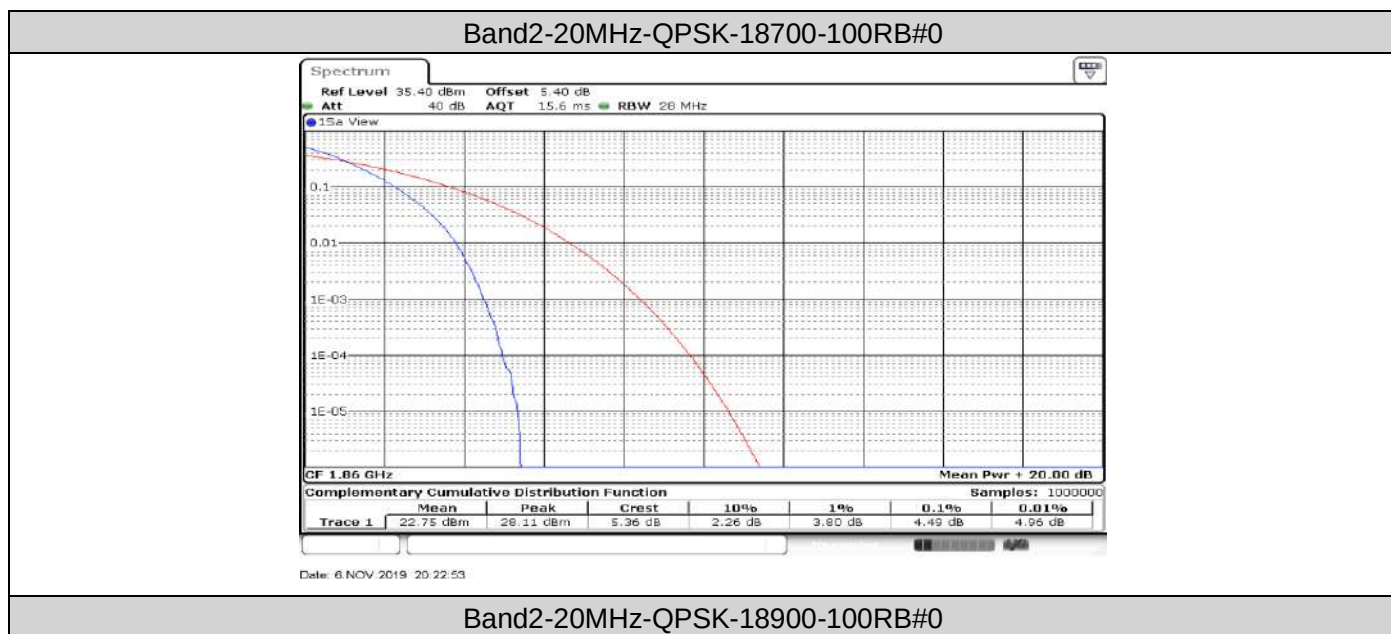


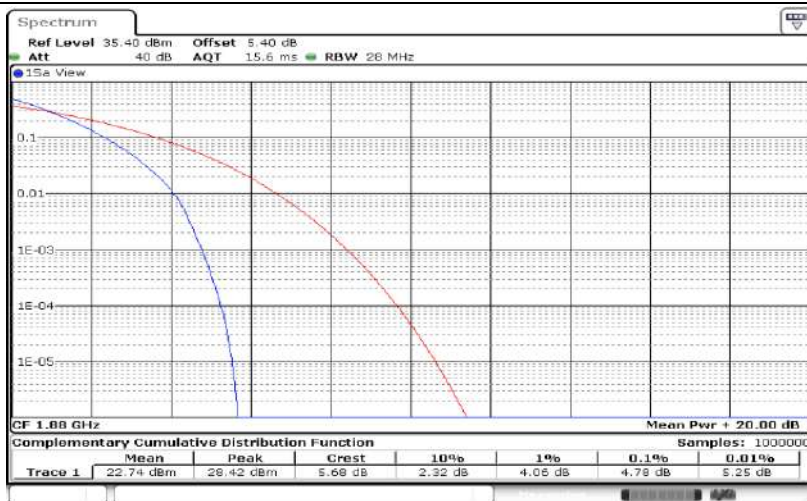
## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 4.49       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 4.78       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 4.84       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 5.30       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 5.74       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 5.74       | 13        | PASS    |

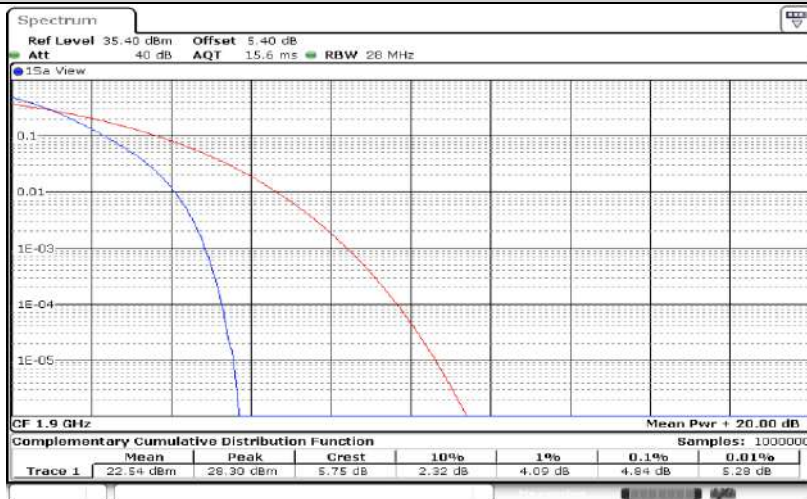
### 2.2. Test Plots





Date: 6 NOV 2019 20:33:13

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



Date: 6 NOV 2019 20:23:32

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

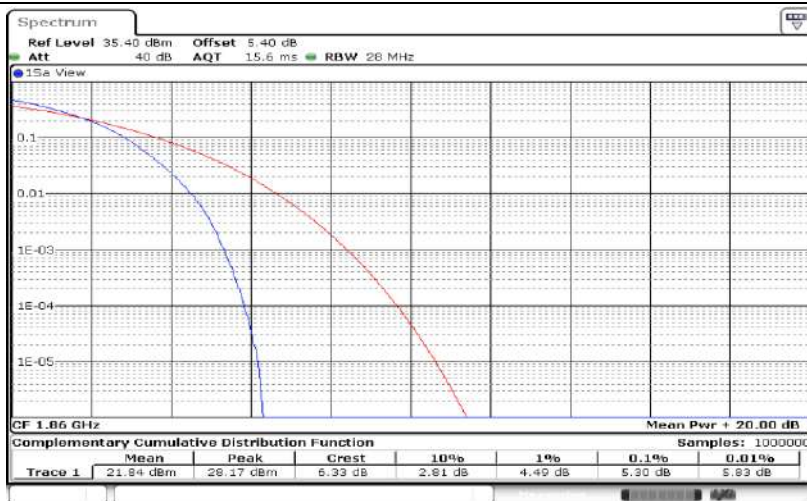


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Shenzhen Branch Technical Center EEC Laboratory

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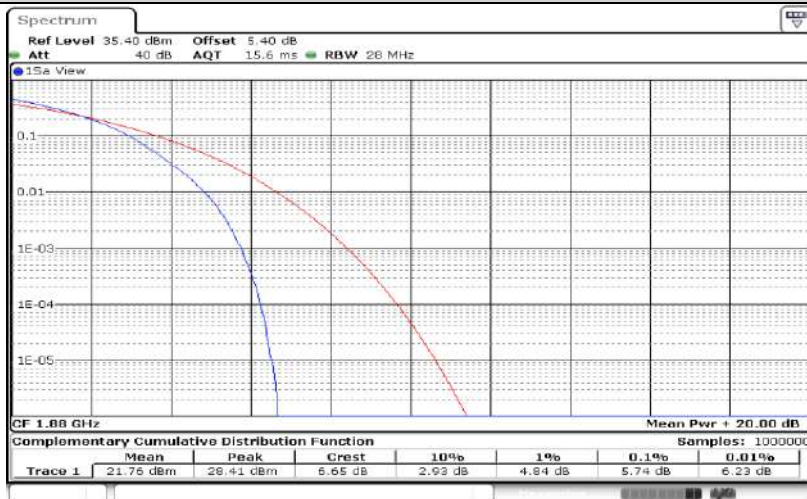
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Date: 6 NOV 2019 20:23:02

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



Date: 6 NOV 2019 20:23:21

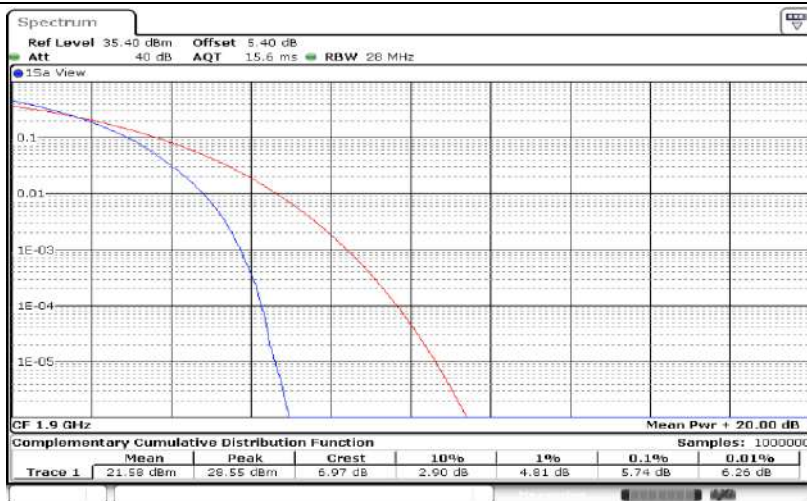
Band2-20MHz-16QAM-19100-100RB#0



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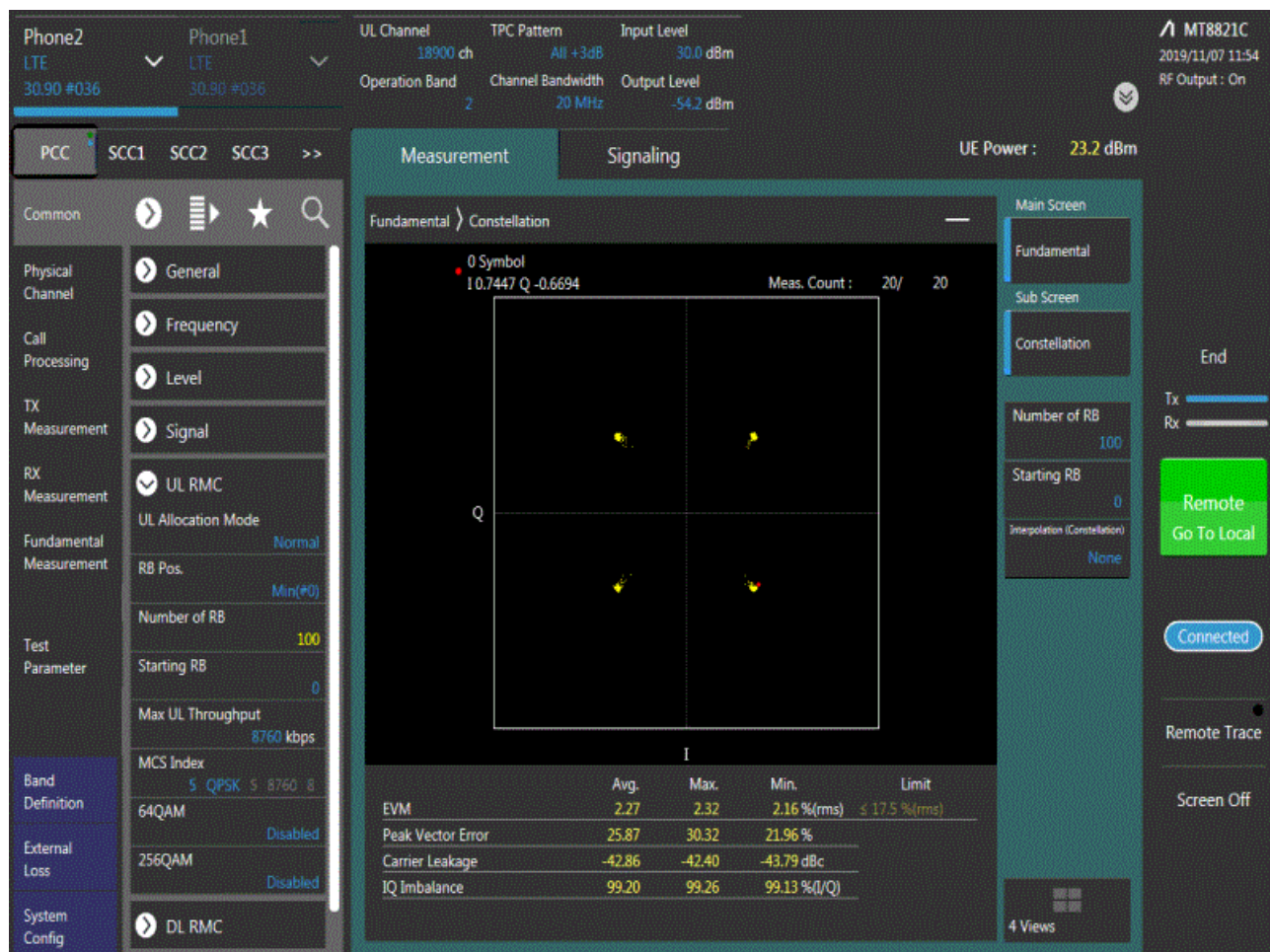
Date: 6 NOV 2019 20:23:41



### 3. Modulation Characteristics

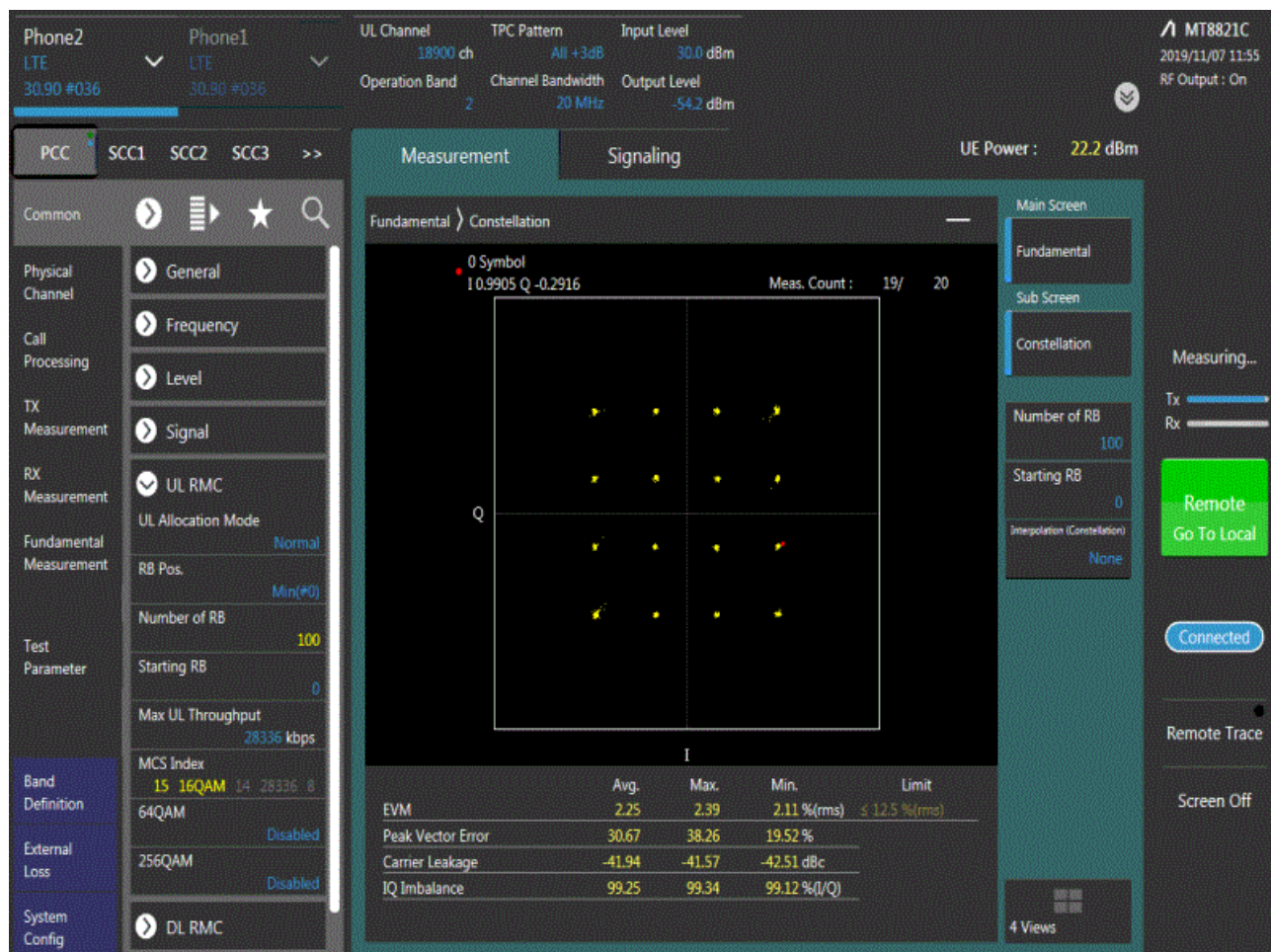
#### 3.1. Test Mode = LTE /TM1 20MHz

##### 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            | 1.103                    | 1.296                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.100                    | 1.290                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.109                    | 1.359                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.100                    | 1.305                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.097                    | 1.308                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.103                    | 1.365                | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.703                    | 2.970                | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.697                    | 2.988                | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.709                    | 2.994                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.697                    | 3.006                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.697                    | 2.982                | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.697                    | 2.988                | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.486                    | 4.960                | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.466                    | 4.930                | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.476                    | 4.950                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.486                    | 4.970                | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.476                    | 4.940                | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.911                    | 9.720                | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 8.911                    | 9.700                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 8.911                    | 9.680                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 8.931                    | 9.720                | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 8.911                    | 9.600                | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.427                   | 17.910               | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.457                   | 14.820               | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.427                   | 14.670               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.427                   | 14.730               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.457                   | 14.820               | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.457                   | 14.730               | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 17.822                   | 19.240               | PASS    |



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|       |       |       |       |         |        |        |      |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 17.902 | 19.520 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 17.862 | 19.400 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 17.862 | 19.400 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 17.862 | 19.360 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.902 | 19.600 | PASS |

## 4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.103



Date: 6 NOV 2019 20:23:56

Band2-1.4MHz-QPSK-18900-6RB#0-1.1



Date: 6 NOV 2019 20:25:25

Band2-1.4MHz-QPSK-19193-6RB#0-1.109



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Date: 6 NOV 2019 20:26:45

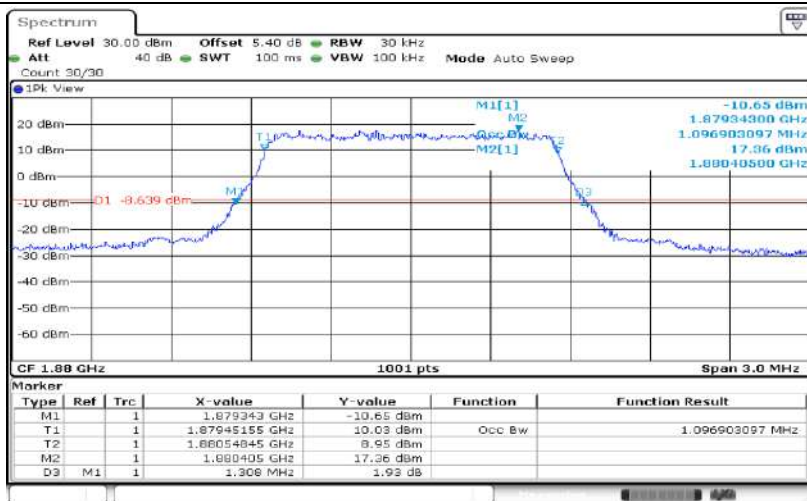
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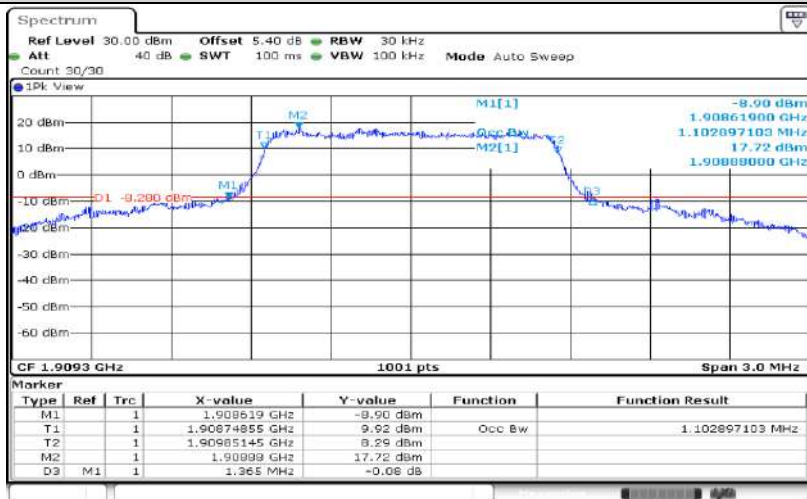
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Date: 6 NOV 2019 20:25:35

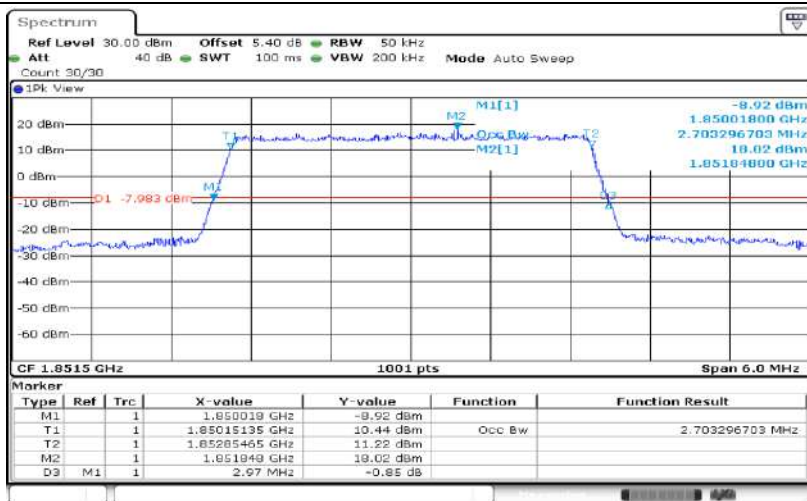
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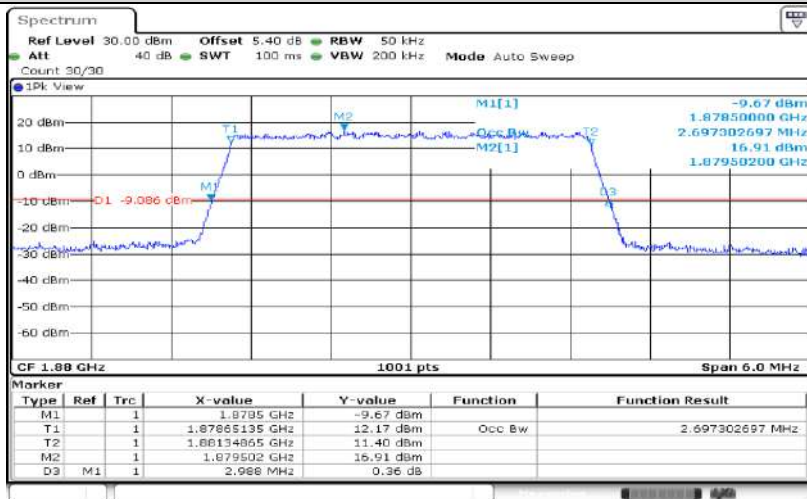
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Date: 6 NOV 2019 20:28:08

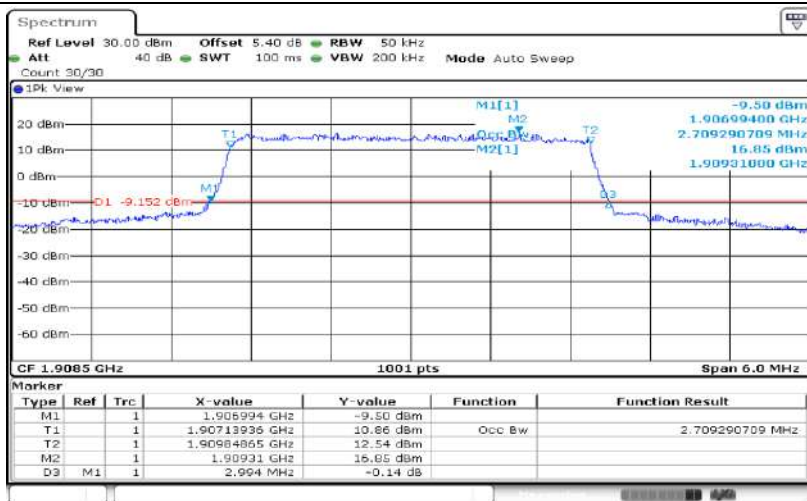
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Date: 6 NOV 2019 20:28:32

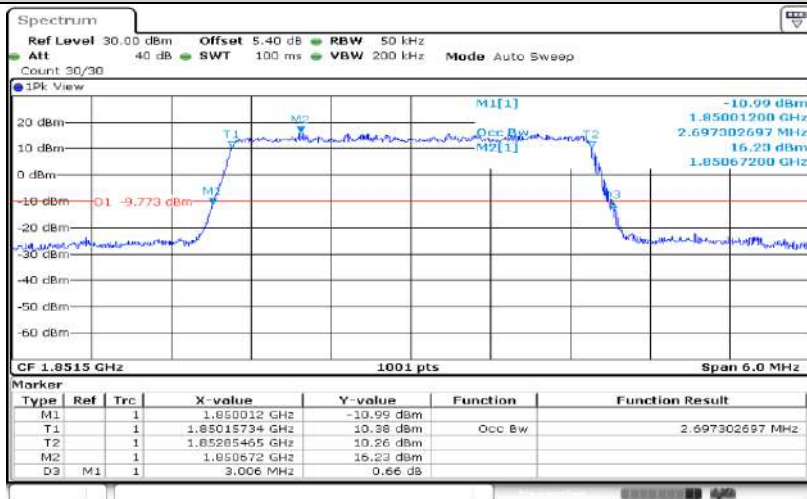
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Date: 6 NOV 2019 20:28:54

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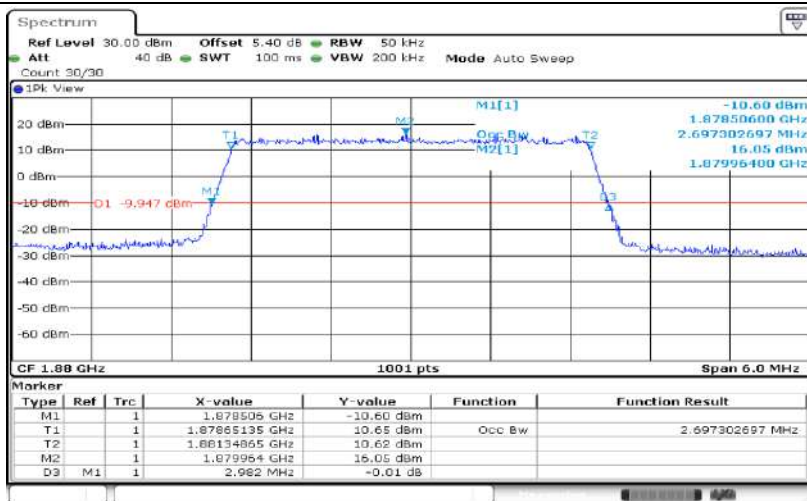


Date: 6 NOV 2019 20:28:19

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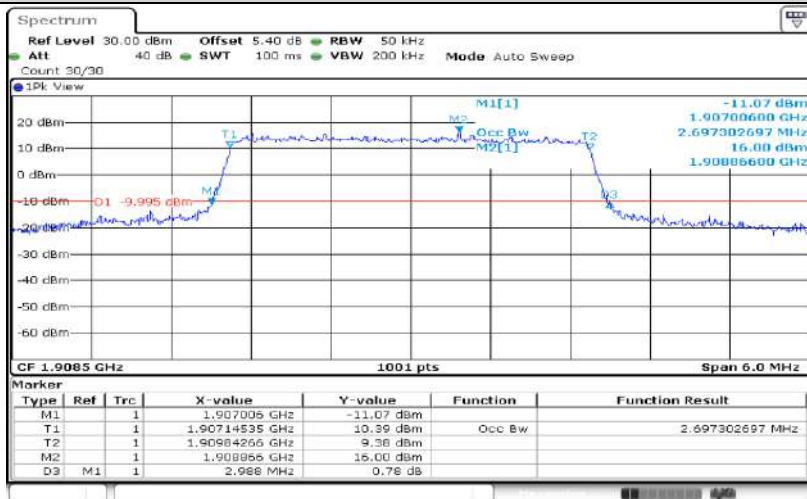






Date: 6 NOV 2019 20:28:41

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Date: 6 NOV 2019 20:29:04

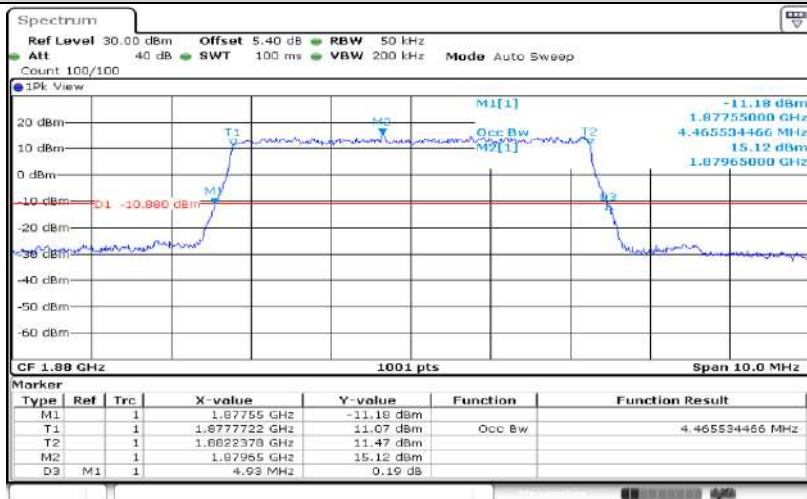
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Date: 6 NOV 2019 20:30:43

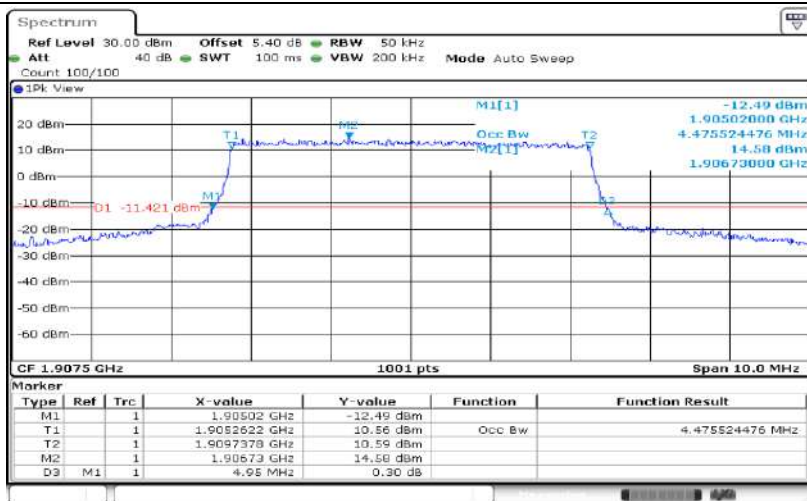
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Date: 6 NOV 2019 20:31:19

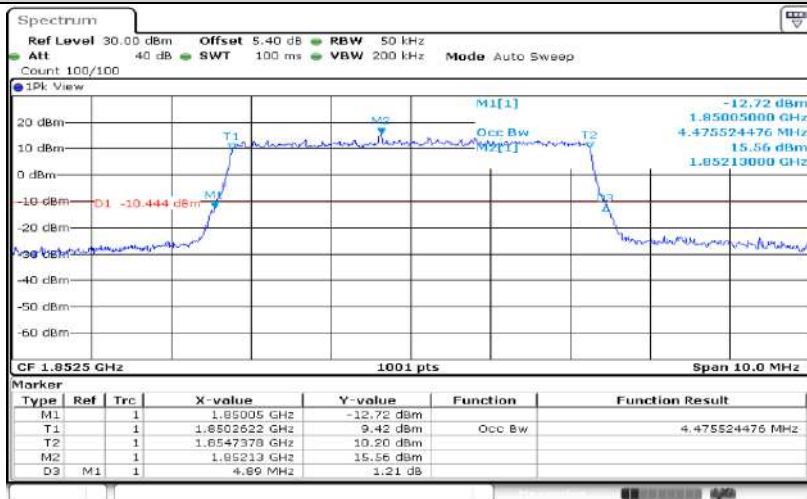
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Date: 6 NOV 2019 20:31:56

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



Date: 6 NOV 2019 20:31:00

## Band2-5MHz-16QAM-18900-25RB#0-4.486



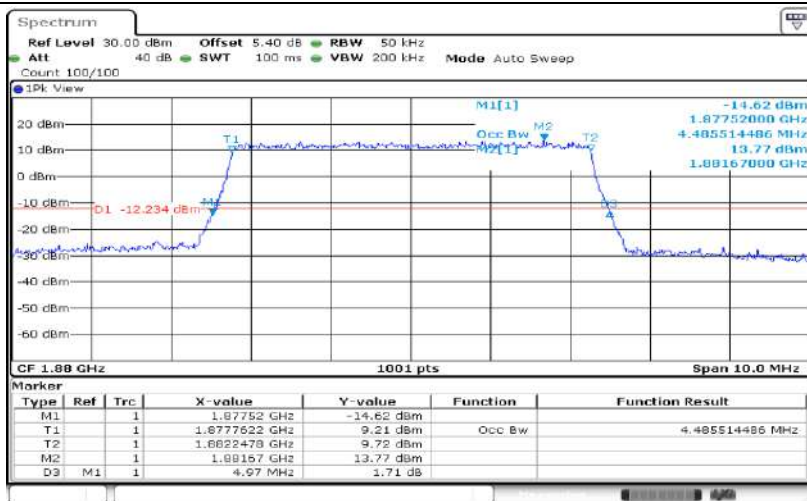
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Date: 6 NOV 2019 20:31:36

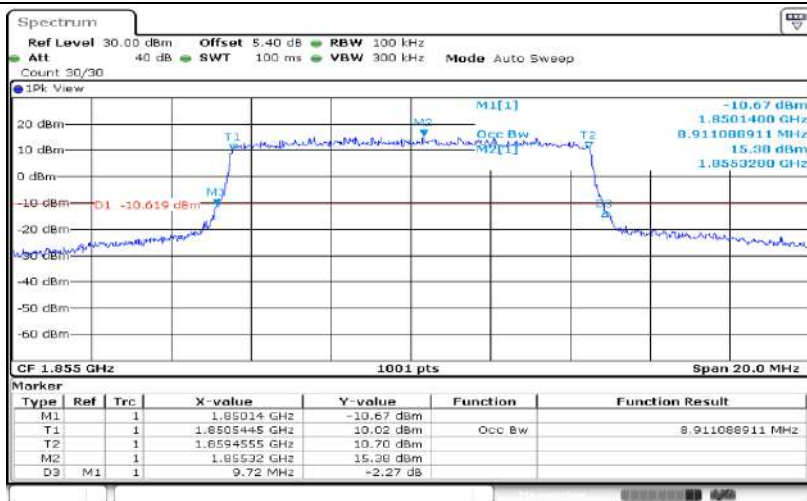
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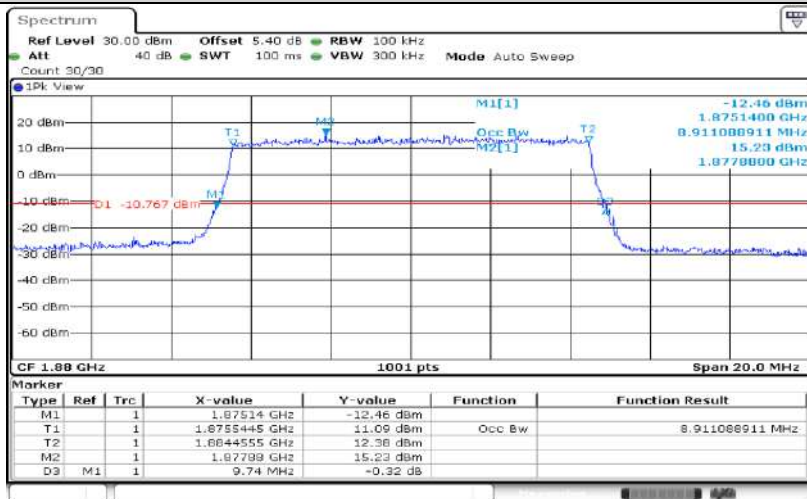
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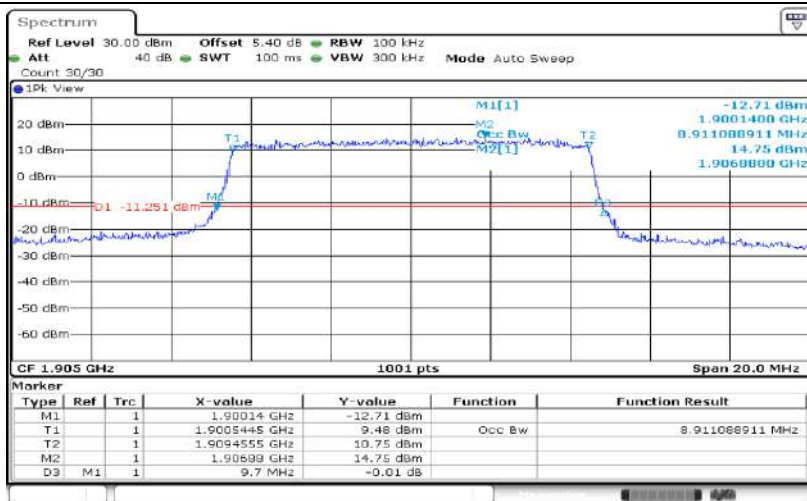
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Date: 6 NOV 2019 20:34:53

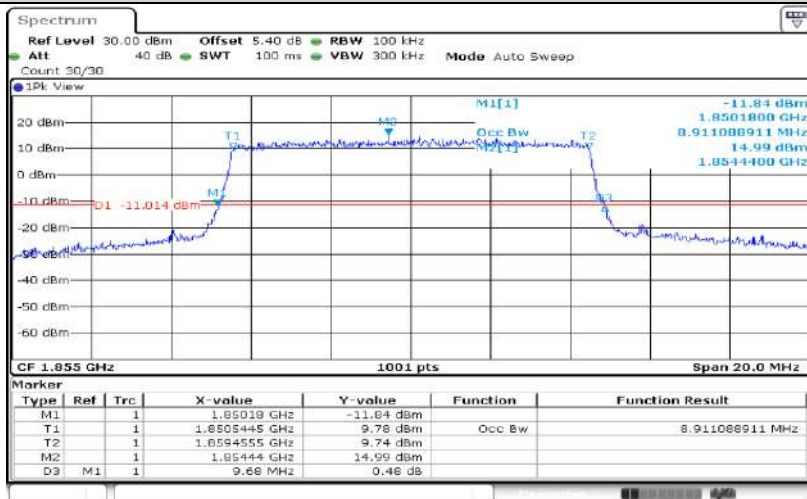
## Band2-10MHz-QPSK-19150-50RB#0-8.911





Date: 6 NOV 2019 20:35:15

## Band2-10MHz-16QAM-18650-50RB#0-8.911



Date: 6 NOV 2019 20:54:40

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



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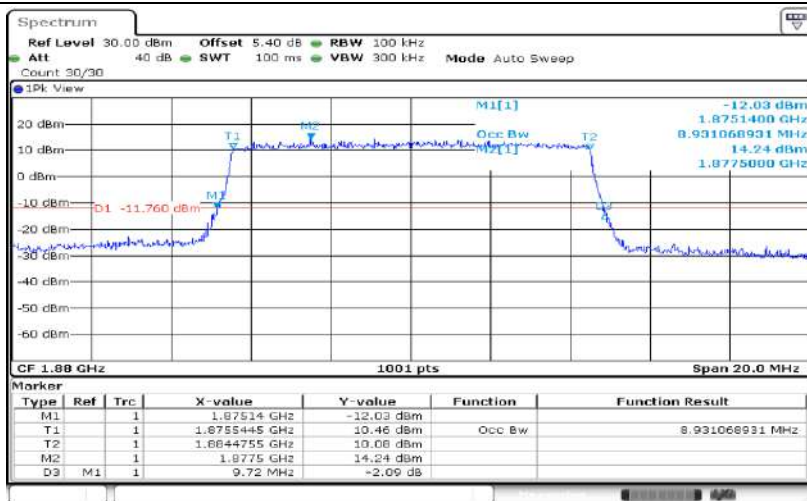
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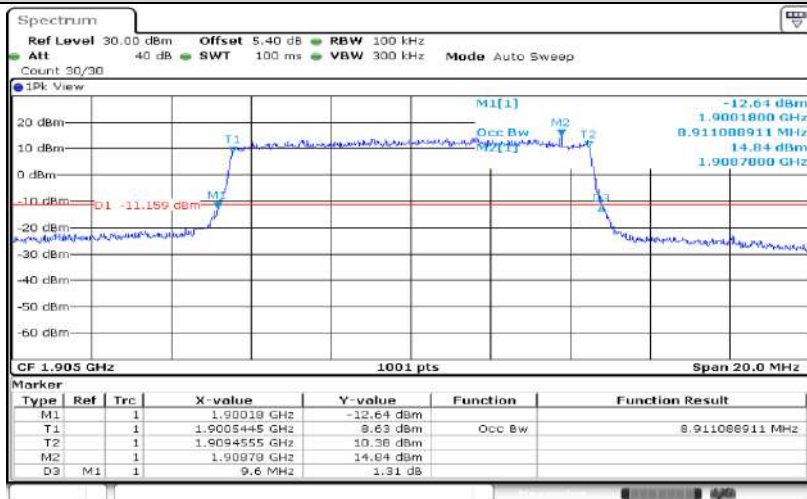
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Date: 6 NOV 2019 20:35:03

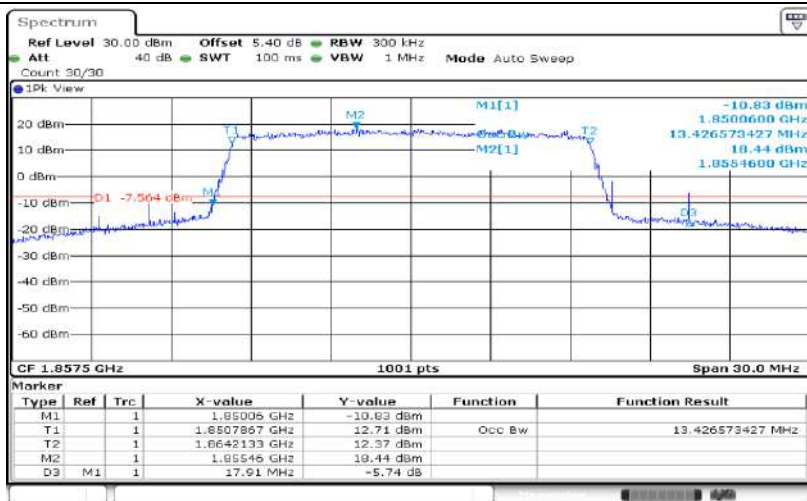
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Date: 6 NOV 2019 20:35:25

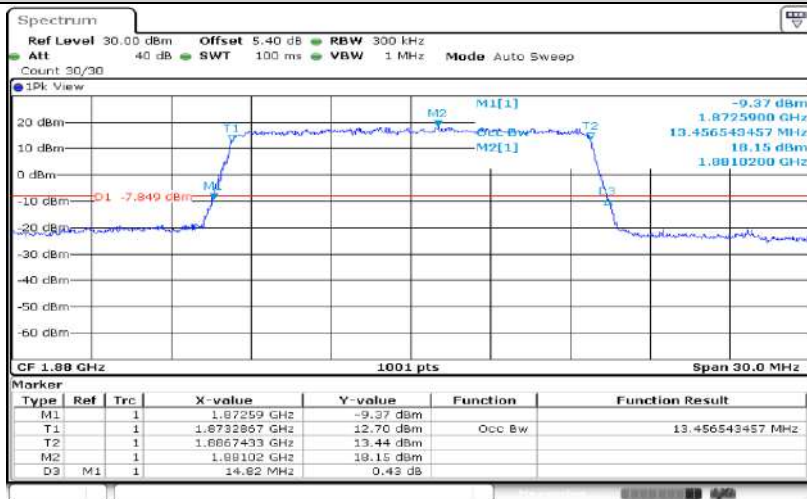
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Date: 6 NOV 2019 20:37:09

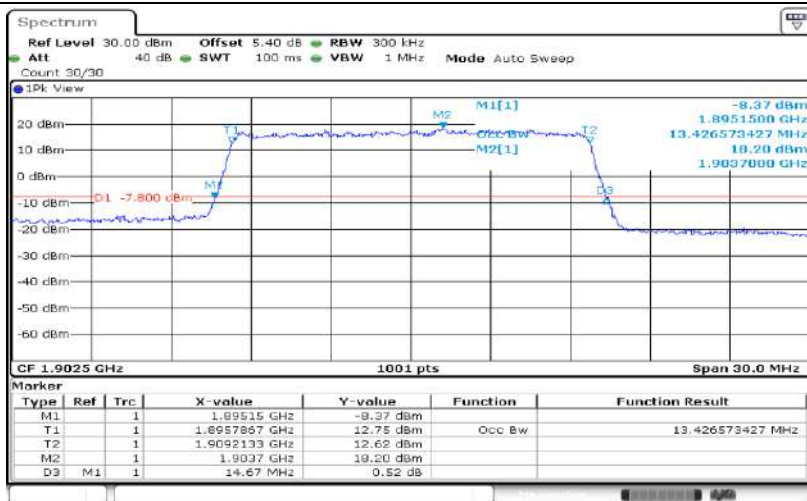
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Date: 6 NOV 2019 20:37:32

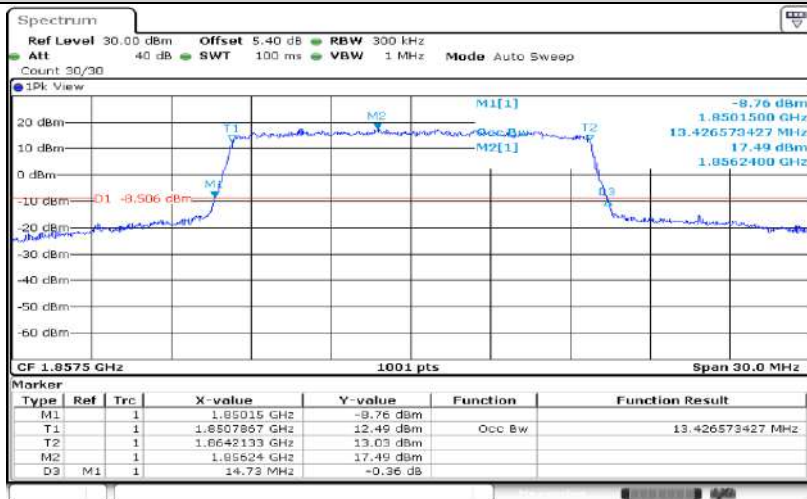
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Date: 6 NOV 2019 20:37:54

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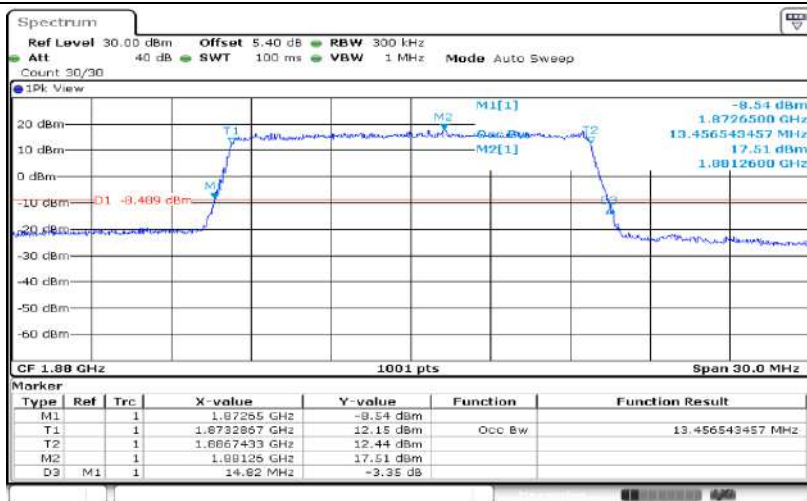


Date: 6 NOV 2019 20:37:19

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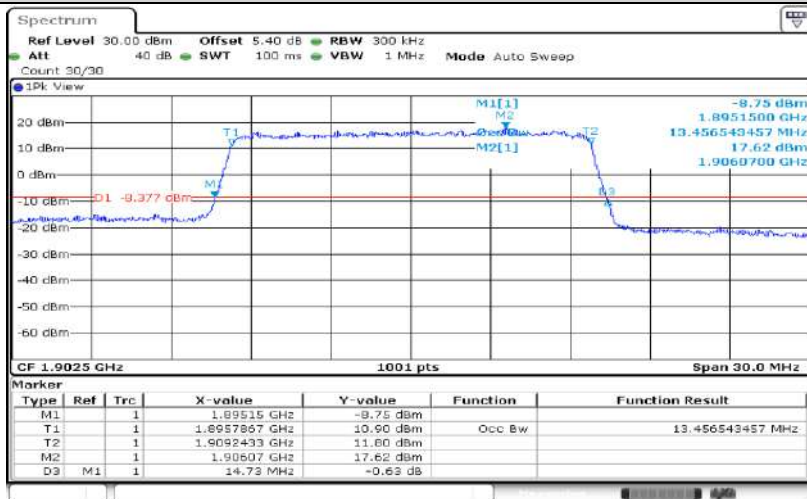






Date: 6 NOV 2019 20:37:41

## Band2-15MHz-16QAM-19125-75RB#0-13.457



Date: 6 NOV 2019 20:58:04

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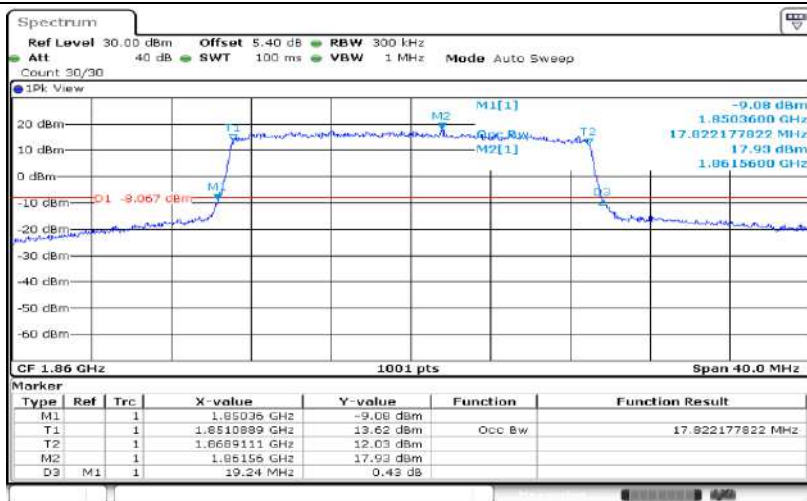


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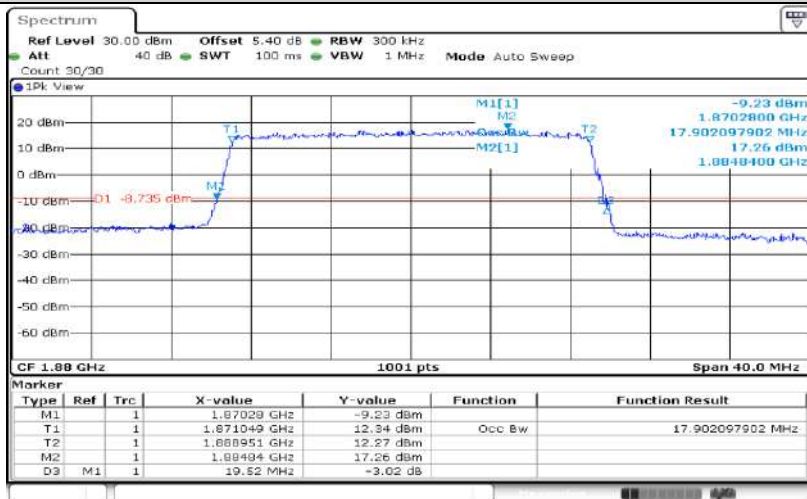
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Date: 6 NOV 2019 20:39:54

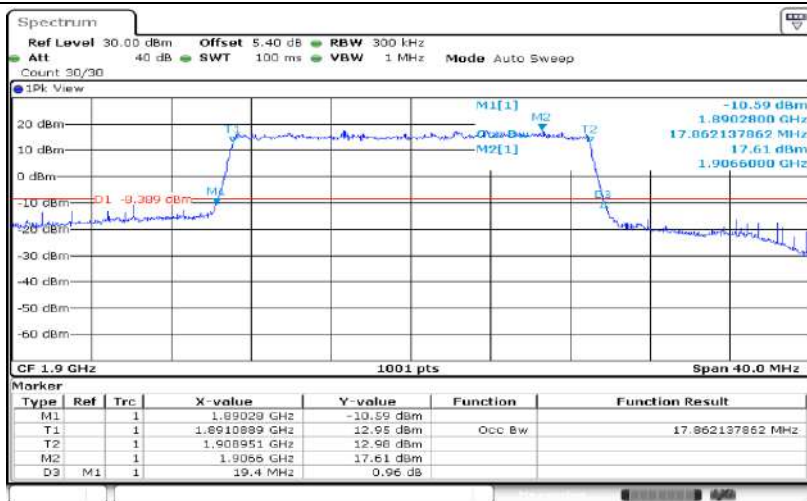
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Date: 6 NOV 2019 20:40:17

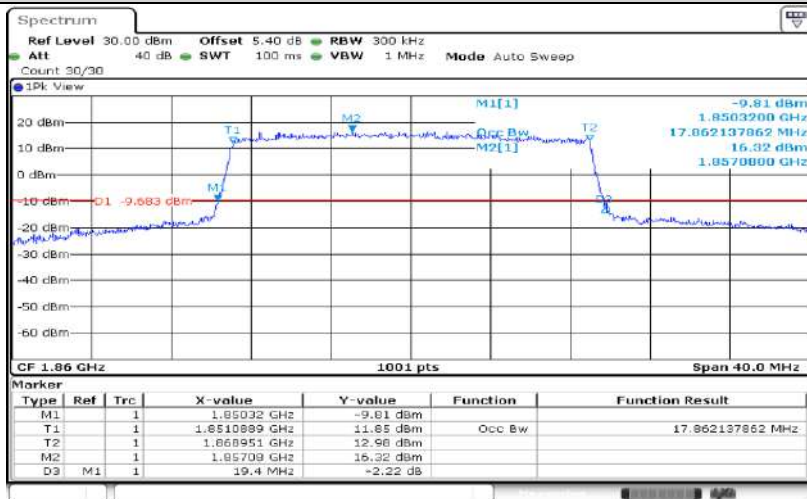
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Date: 6 NOV 2019 20:40:40

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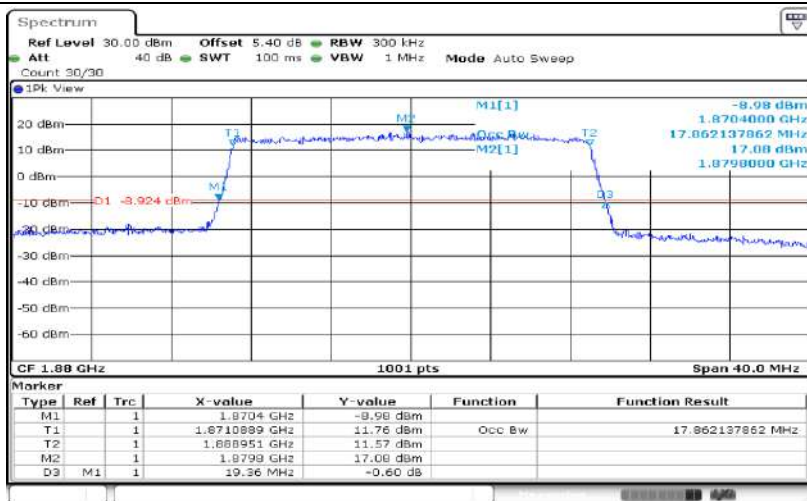


Date: 6 NOV 2019 20:40:04

## Band2-20MHz-16QAM-18900-100RB#0-17.862

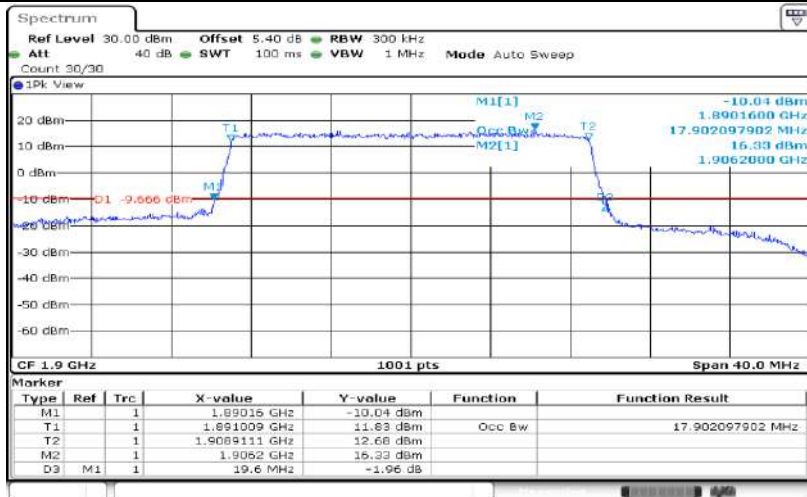






Date: 6 NOV 2019 20:40:27

## Band2-20MHz-16QAM-19100-100RB#0-17.902



Date: 6 NOV 2019 20:40:50



## 5. Band Edge Compliance

### 5.1. Test Plots

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



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



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



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Date: 6 NOV 2019 20:42:27

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

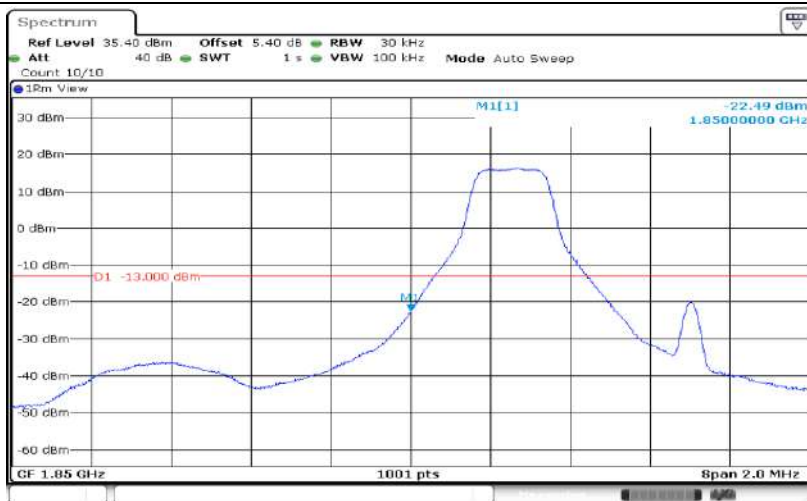


Date: 6 NOV 2019 20:44:16

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







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



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



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Date: 6 NOV 2019 20:42:44

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



Date: 6 NOV 2019 20:44:33

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



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Date: 6 NOV 2019 20:46:42

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



Date: 6 NOV 2019 20:49:08

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



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Date: 6 NOV 2019 20:47:55

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



Date: 6 NOV 2019 20:49:44

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



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Date: 6 NOV 2019 20:48:59

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



Date: 6 NOV 2019 20:49:25

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





Date: 6 NOV 2019 20:48:12

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



Date: 6 NOV 2019 20:50:01

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



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Date: 6 NOV 2019 20:52:16

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



Date: 6 NOV 2019 20:54:42

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



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Date: 6 NOV 2019 20:53:29

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



Date: 6 NOV 2019 20:55:19

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



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Date: 6 NOV 2019 20:52:33

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



Date: 6 NOV 2019 20:54:59

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



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Date: 6 NOV 2019 20:53:47

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



Date: 6 NOV 2019 20:55:36

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



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Date: 6 NOV 2019 20:57:03

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



Date: 6 NOV 2019 20:59:33

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



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



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



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Date: 6 NOV 2019 20:57:20

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



Date: 6 NOV 2019 20:58:50

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



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Date: 6 NOV 2019 20:58:35

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



Date: 6 NOV 2019 21:00:27

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



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Date: 6 NOV 2019 21:02:11

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



Date: 6 NOV 2019 21:04:42

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



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Date: 6 NOV 2019 21:05:26

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



Date: 6 NOV 2019 21:05:20

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



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Date: 6 NOV 2019 21:02:28

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



Date: 6 NOV 2019 21:04:59

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



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



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



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Date: 6 NOV 2019 21:08:24

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



Date: 6 NOV 2019 21:11:00

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



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



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





Date: 6 NOV 2019 21:08:42

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



Date: 6 NOV 2019 21:11:18

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



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Date: 6 NOV 2019 21:10:00

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



Date: 6 NOV 2019 21:11:57



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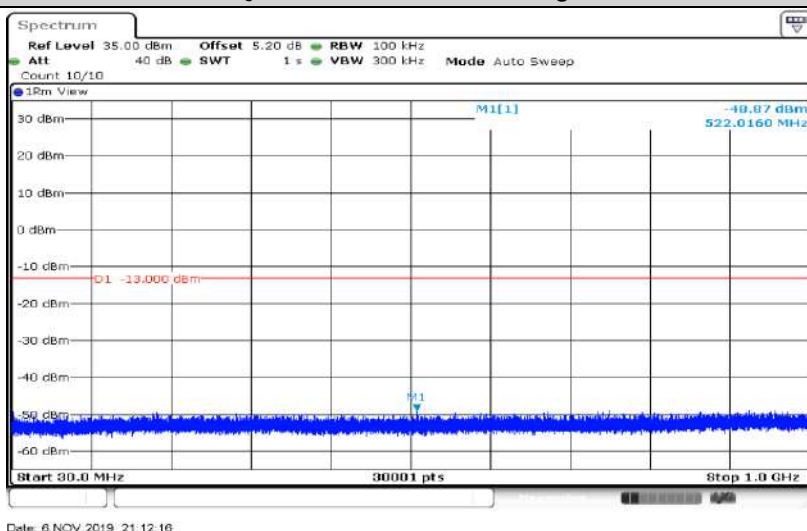
## 6. Spurious Emission at Antenna Terminal

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.

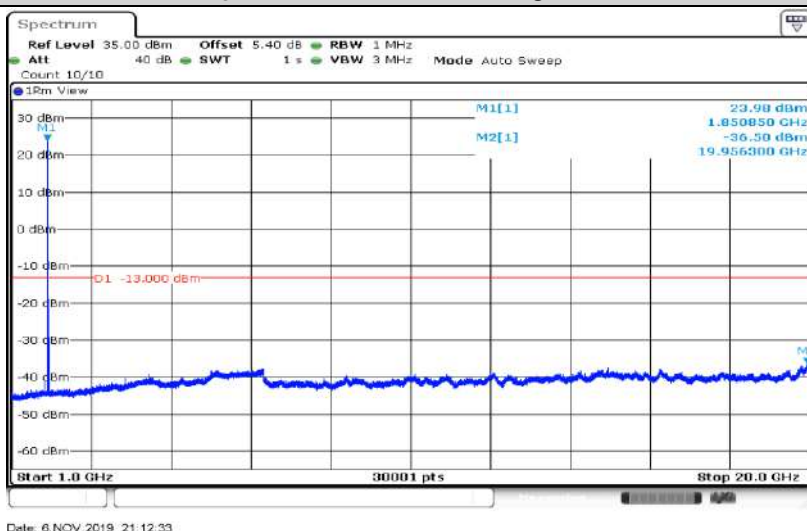
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

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



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

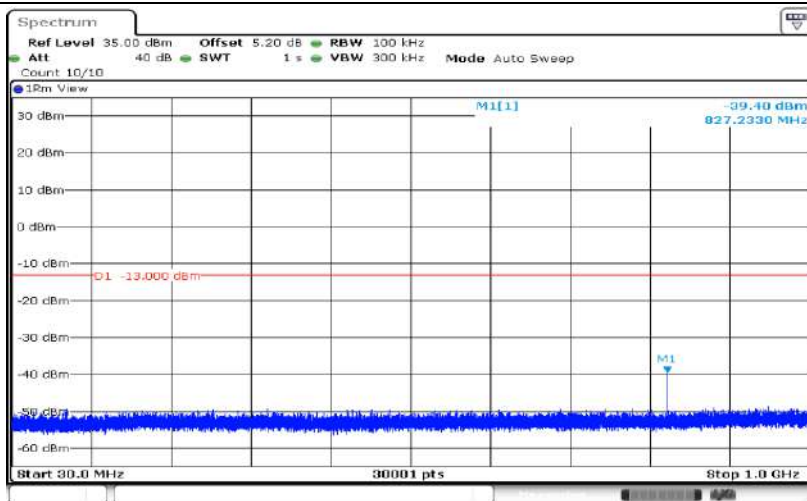


Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz

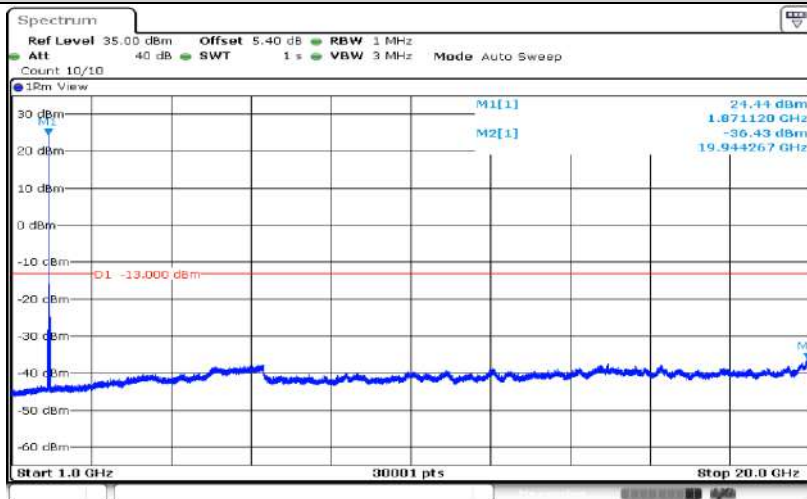


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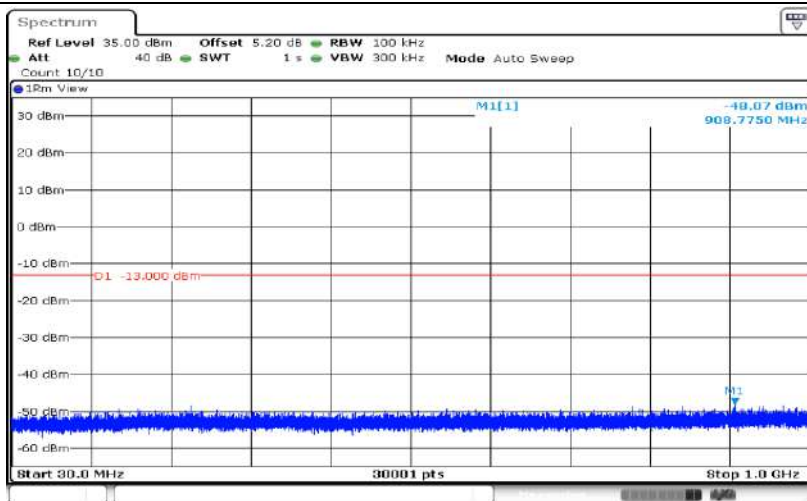
Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



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

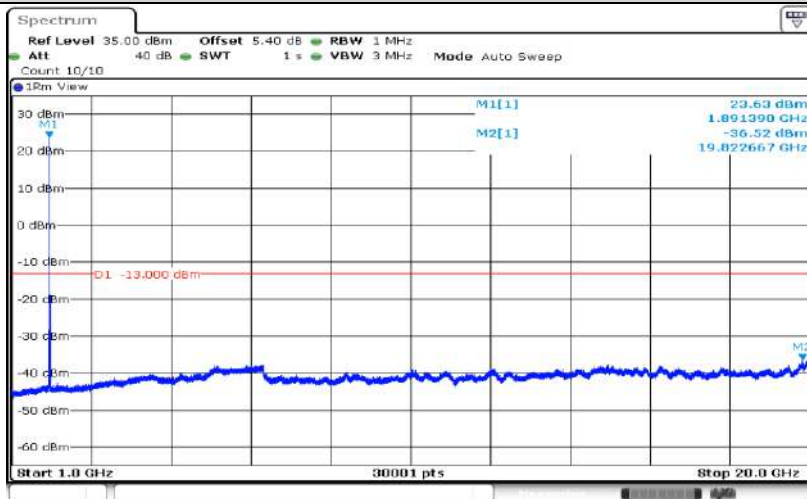


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Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



Date: 6 NOV 2019 21:14:47

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

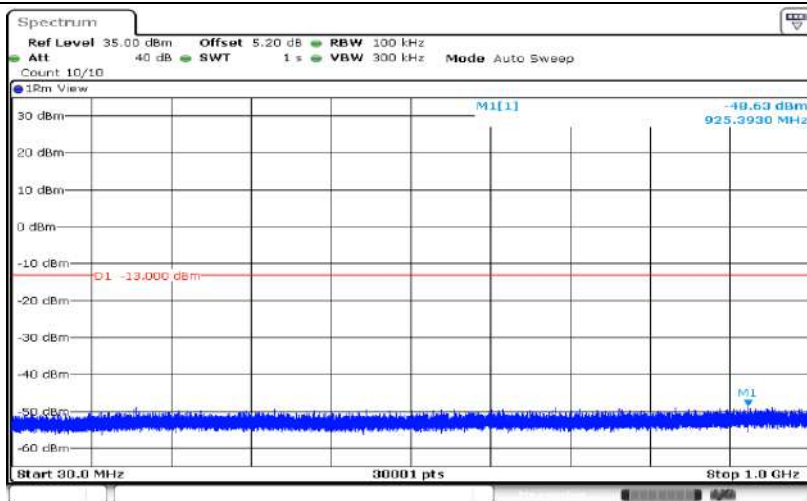


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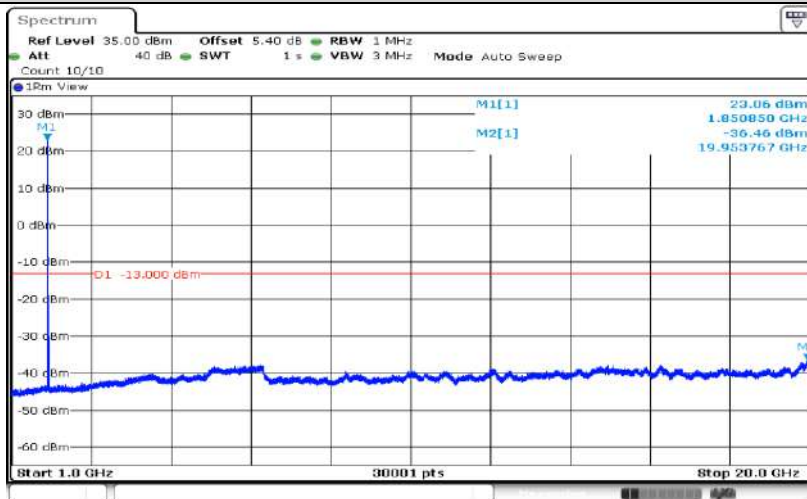
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Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz

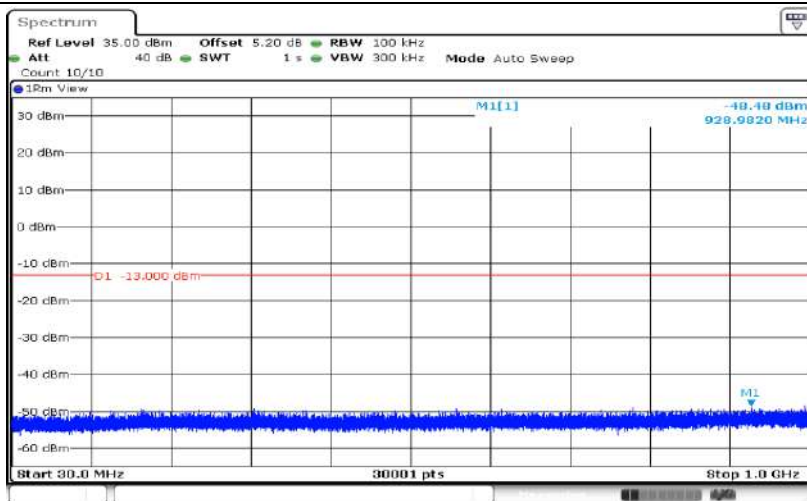


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz

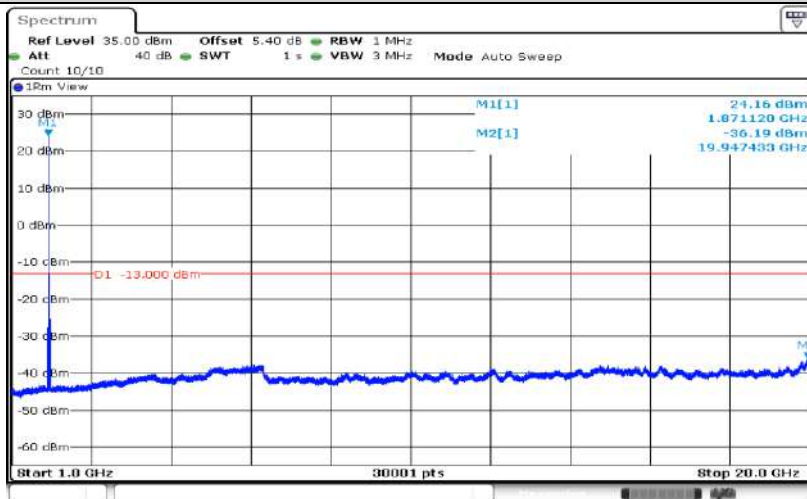


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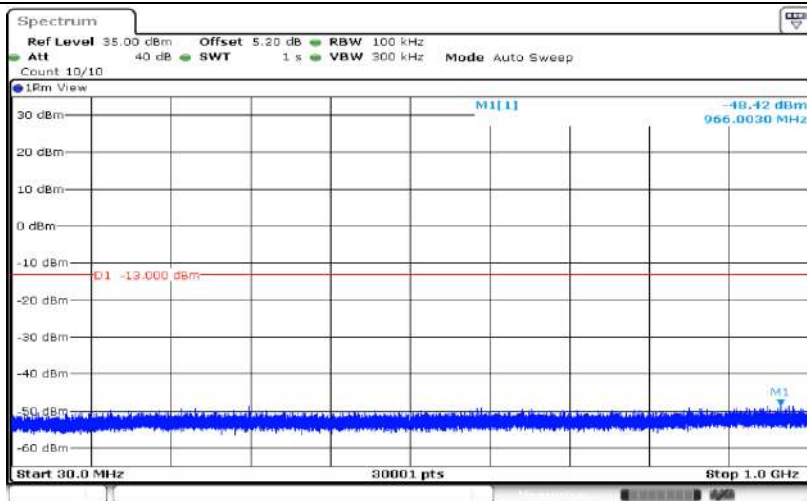


Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz



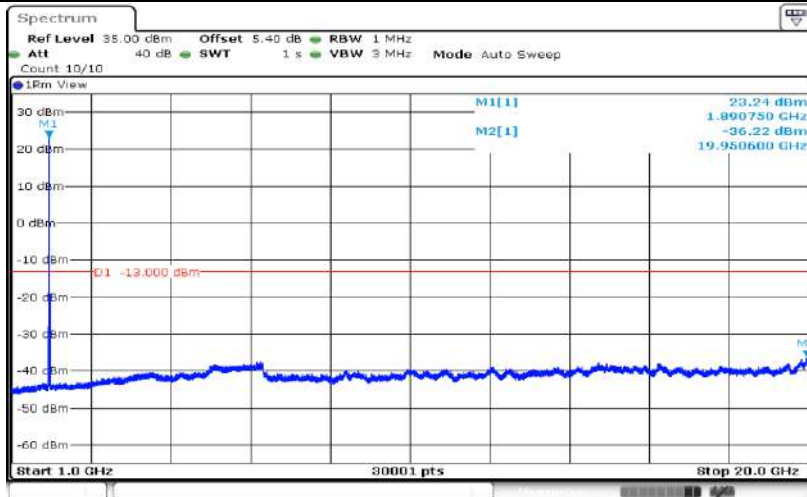
Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz





Date: 6 NOV 2019 21:15:03

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



Date: 6 NOV 2019 21:15:20





## 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) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 112.3086        | -64.01      | -13.00           | 51.01       | 244         | 12        | Vertical     |
| 902.0736        | -54.90      | -13.00           | 41.90       | 221         | 134       | Vertical     |
| 2697.5395       | -37.46      | -13.00           | 24.46       | 167         | 263       | Vertical     |
| 3702.0234       | -57.59      | -13.00           | 44.59       | 132         | 12        | Vertical     |
| 14688.8896      | -41.28      | -13.00           | 28.28       | 287         | 331       | Vertical     |
| 17999.0000      | -32.59      | -13.00           | 19.59       | 188         | 307       | Vertical     |
| 41.2041         | -63.86      | -13.00           | 50.86       | 122         | 110       | Horizontal   |
| 229.5875        | -68.35      | -13.00           | 55.35       | 172         | 233       | Horizontal   |
| 827.2829        | -61.92      | -13.00           | 48.92       | 251         | 282       | Horizontal   |
| 3702.0234       | -54.25      | -13.00           | 41.25       | 286         | 233       | Horizontal   |
| 9314.7105       | -47.98      | -13.00           | 34.98       | 284         | 10        | Horizontal   |
| 16402.4467      | -36.61      | -13.00           | 23.61       | 211         | 60        | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 32.3766         | -69.27      | -13.00           | 56.27       | 252         | 50        | Vertical     |
| 110.4655        | -63.92      | -13.00           | 50.92       | 133         | 1         | Vertical     |
| 854.6382        | -60.75      | -13.00           | 47.75       | 177         | 129       | Vertical     |
| 2699.9400       | -37.30      | -13.00           | 24.30       | 112         | 90        | Vertical     |
| 10713.7571      | -44.79      | -13.00           | 31.79       | 251         | 331       | Vertical     |
| 17999.5000      | -32.54      | -13.00           | 19.54       | 297         | 356       | Vertical     |
| 39.6520         | -62.69      | -13.00           | 49.69       | 166         | 110       | Horizontal   |
| 834.9462        | -61.37      | -13.00           | 48.37       | 172         | 257       | Horizontal   |
| 2701.5403       | -36.35      | -13.00           | 23.35       | 171         | 359       | Horizontal   |
| 3742.5248       | -57.33      | -13.00           | 44.33       | 198         | 110       | Horizontal   |
| 10418.2473      | -47.33      | -13.00           | 34.33       | 186         | 36        | Horizontal   |
| 16390.9464      | -36.83      | -13.00           | 23.83       | 183         | 134       | Horizontal   |





### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 72.0516         | -68.65      | -13.00           | 55.65       | 163         | 35        | Vertical     |
| 111.8236        | -65.46      | -13.00           | 52.46       | 172         | 159       | Vertical     |
| 2697.1394       | -37.38      | -13.00           | 24.38       | 111         | 148       | Vertical     |
| 3835.5279       | -58.75      | -13.00           | 45.75       | 125         | 134       | Vertical     |
| 14699.8900      | -41.67      | -13.00           | 28.67       | 261         | 331       | Vertical     |
| 17922.4974      | -32.97      | -13.00           | 19.97       | 278         | 258       | Vertical     |
| 42.2711         | -64.35      | -13.00           | 51.35       | 144         | 9         | Horizontal   |
| 907.1664        | -56.07      | -13.00           | 43.07       | 178         | 156       | Horizontal   |
| 2695.5391       | -36.32      | -13.00           | 23.32       | 132         | 108       | Horizontal   |
| 3782.5261       | -56.32      | -13.00           | 43.32       | 151         | 180       | Horizontal   |
| 11369.2790      | -46.18      | -13.00           | 33.18       | 288         | 303       | Horizontal   |
| 16403.4468      | -37.23      | -13.00           | 24.23       | 254         | 254       | 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.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VL            | NT               | 1.70           | 0.000914        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VN            | NT               | 0.30           | 0.000161        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VH            | NT               | 1.20           | 0.000645        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | -3.30          | -0.001755       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | -5.40          | -0.002872       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | -2.80          | -0.001489       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VL            | NT               | -1.80          | -0.000947       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VN            | NT               | -2.90          | -0.001526       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VH            | NT               | -3.80          | -0.002000       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VL            | NT               | 0.70           | 0.000376        | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VN            | NT               | 2.30           | 0.001237        | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VH            | NT               | 1.10           | 0.000591        | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VL            | NT               | -2.90          | -0.001543       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VN            | NT               | -2.90          | -0.001543       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VH            | NT               | -3.50          | -0.001862       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VL            | NT               | -2.80          | -0.001474       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VN            | NT               | -2.70          | -0.001421       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VH            | NT               | -3.10          | -0.001632       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | -30              | 0.10           | 0.000054        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | -20              | -0.20          | -0.000108       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 0                | 1.90           | 0.001022        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 10               | 0.10           | 0.000054        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 20               | 1.00           | 0.000538        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 30               | 0.60           | 0.000323        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 40               | 0.10           | 0.000054        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 50               | 2.90           | 0.001559        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | -5.10          | -0.002713       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | -5.40          | -0.002872       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | -3.50          | -0.001862       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | -3.80          | -0.002021       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | -3.70          | -0.001968       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | -4.10          | -0.002181       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | -1.60          | -0.000851       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 50               | -3.40          | -0.001809       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | NV            | -30              | -3.40          | -0.001789       | ±2.5        | PASS    |



|       |       |       |       |         |    |     |       |           |      |      |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | -20 | -2.70 | -0.001421 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 0   | -1.80 | -0.000947 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 10  | -3.10 | -0.001632 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 20  | -3.20 | -0.001684 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 30  | -3.50 | -0.001842 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 40  | -3.20 | -0.001684 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 50  | -3.70 | -0.001947 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -30 | -0.30 | -0.000161 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -20 | -0.10 | -0.000054 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 0   | 1.40  | 0.000753  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 10  | 1.40  | 0.000753  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 20  | 2.60  | 0.001398  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 30  | 1.10  | 0.000591  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 40  | 0.30  | 0.000161  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 50  | 2.10  | 0.001129  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -30 | -3.10 | -0.001649 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -20 | -3.70 | -0.001968 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 0   | -2.00 | -0.001064 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 10  | -3.50 | -0.001862 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 20  | -4.00 | -0.002128 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 30  | -5.00 | -0.002660 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 40  | -3.60 | -0.001915 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 50  | -3.10 | -0.001649 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -30 | -2.20 | -0.001158 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -20 | -2.40 | -0.001263 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 0   | -2.70 | -0.001421 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 10  | -4.10 | -0.002158 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 20  | -2.00 | -0.001053 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 30  | -3.20 | -0.001684 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 40  | -3.70 | -0.001947 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 50  | -2.60 | -0.001368 | ±2.5 | PASS |



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