

# Appendix for Band 2

Report No.: BCTC2408767493-2E

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Applicant: Shenzhen Minew Technologies Co., Ltd.

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Product Name: Tiny LTE Cellular Gateway

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Test Model: MG8

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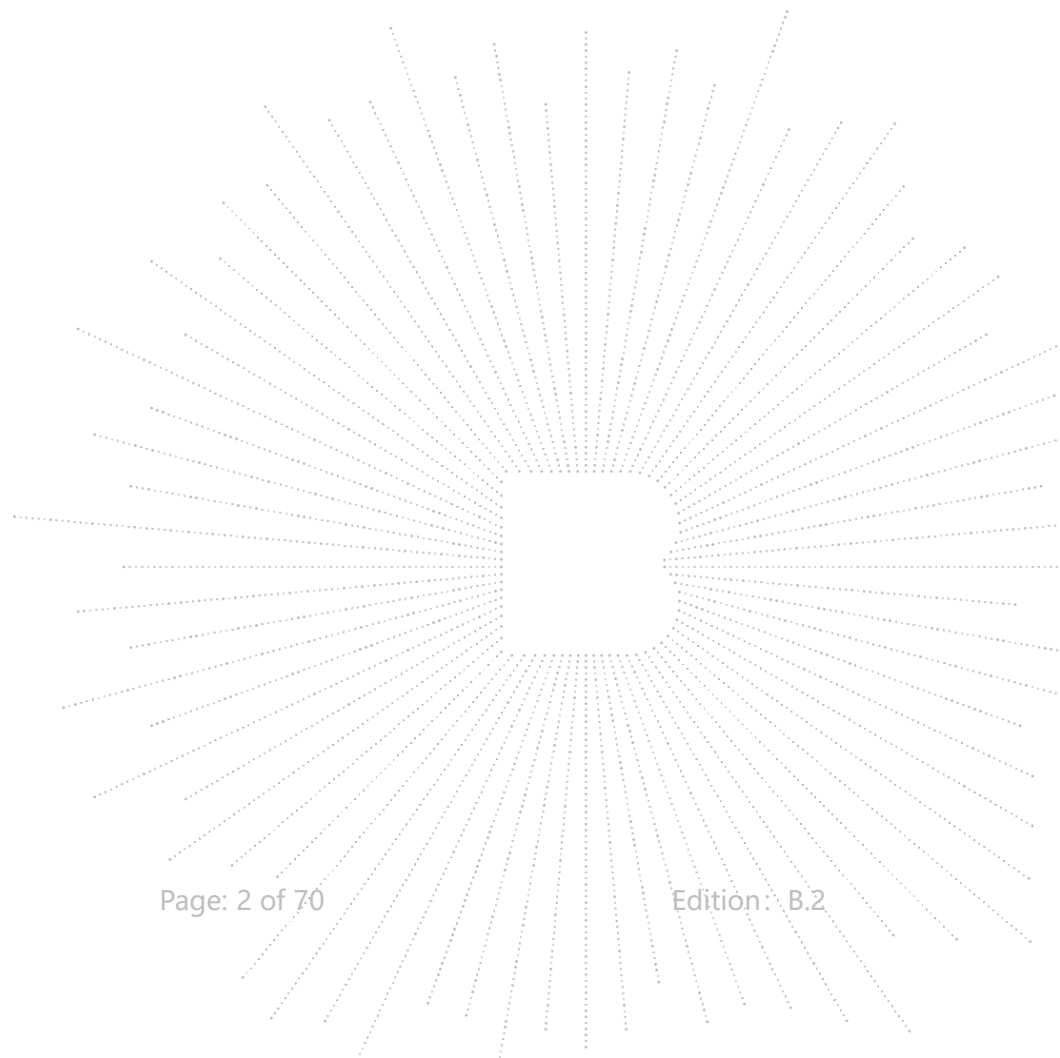
Tested Date: 2024-08-02 to 2024-08-28

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**Shenzhen BCTC Testing Co., Ltd.**

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## Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power

### Measurement

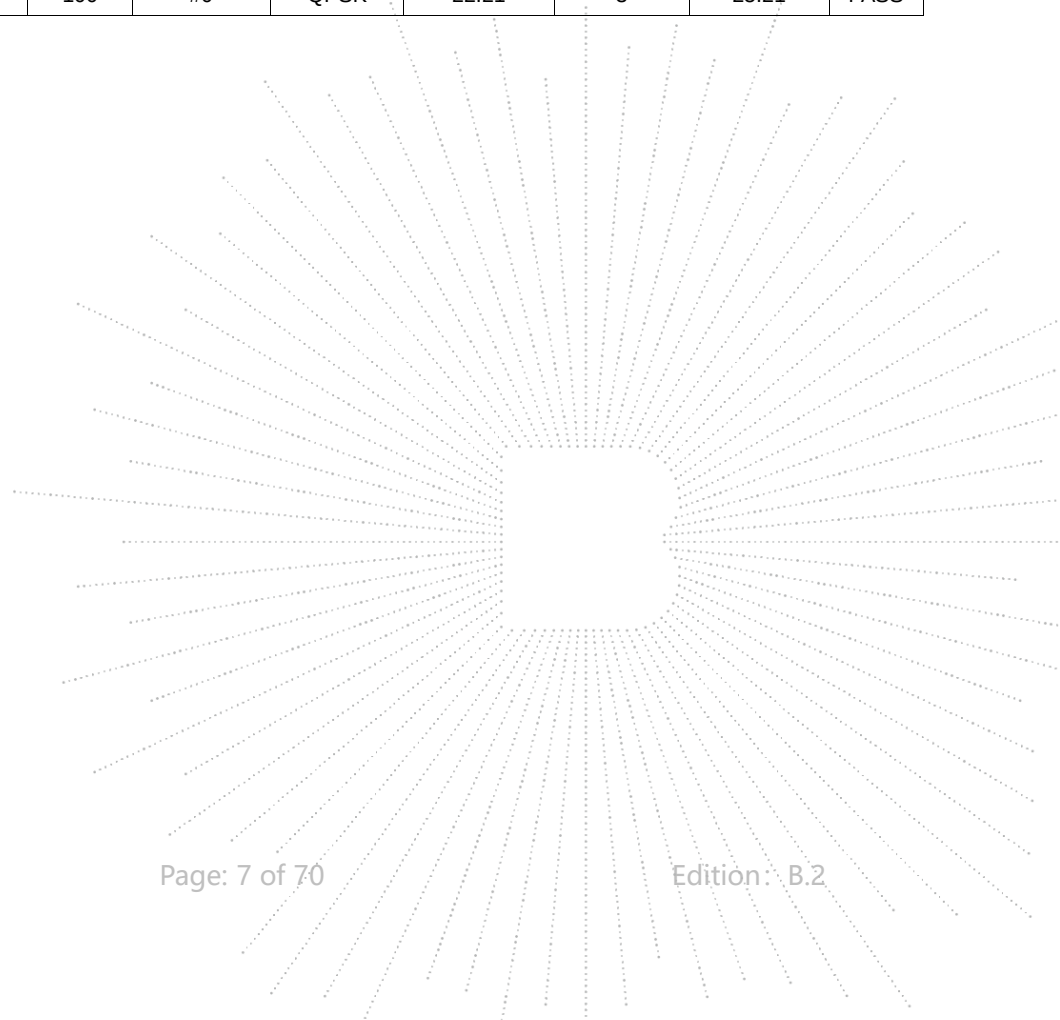
| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Power<br>(dBm) | Gain<br>(dBm) | EIRP<br>(dBm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|----------------|---------------|---------------|---------|
| Band2 | 1.4                | 18607         | 1          | #0             | QPSK       | 22.16          | 3             | 25.16         | PASS    |
| Band2 | 1.4                | 18607         | 1          | #Mid           | QPSK       | 22.14          | 3             | 25.14         | PASS    |
| Band2 | 1.4                | 18607         | 1          | #Max           | QPSK       | 22.17          | 3             | 25.17         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #0             | QPSK       | 22.03          | 3             | 25.03         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #Mid           | QPSK       | 22.02          | 3             | 25.02         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #Max           | QPSK       | 22.06          | 3             | 25.06         | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | 21.14          | 3             | 24.14         | PASS    |
| Band2 | 1.4                | 18607         | 1          | #0             | 16QAM      | 21.18          | 3             | 24.18         | PASS    |
| Band2 | 1.4                | 18607         | 1          | #Mid           | 16QAM      | 21.21          | 3             | 24.21         | PASS    |
| Band2 | 1.4                | 18607         | 1          | #Max           | 16QAM      | 21.22          | 3             | 24.22         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #0             | 16QAM      | 21.01          | 3             | 24.01         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #Mid           | 16QAM      | 21.14          | 3             | 24.14         | PASS    |
| Band2 | 1.4                | 18607         | 3          | #Max           | 16QAM      | 21.14          | 3             | 24.14         | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | 20.46          | 3             | 23.46         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #0             | QPSK       | 21.65          | 3             | 24.65         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #Mid           | QPSK       | 21.79          | 3             | 24.79         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #Max           | QPSK       | 21.72          | 3             | 24.72         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #0             | QPSK       | 21.81          | 3             | 24.81         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #Mid           | QPSK       | 21.77          | 3             | 24.77         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #Max           | QPSK       | 21.74          | 3             | 24.74         | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | 20.59          | 3             | 23.59         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #0             | 16QAM      | 20.55          | 3             | 23.55         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #Mid           | 16QAM      | 20.54          | 3             | 23.54         | PASS    |
| Band2 | 1.4                | 18900         | 1          | #Max           | 16QAM      | 20.51          | 3             | 23.51         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #0             | 16QAM      | 20.91          | 3             | 23.91         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #Mid           | 16QAM      | 21.04          | 3             | 24.04         | PASS    |
| Band2 | 1.4                | 18900         | 3          | #Max           | 16QAM      | 21.00          | 3             | 24.00         | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | 19.94          | 3             | 22.94         | PASS    |
| Band2 | 1.4                | 19193         | 1          | #0             | QPSK       | 22.02          | 3             | 25.02         | PASS    |
| Band2 | 1.4                | 19193         | 1          | #Mid           | QPSK       | 22.00          | 3             | 25.00         | PASS    |
| Band2 | 1.4                | 19193         | 1          | #Max           | QPSK       | 21.94          | 3             | 24.94         | PASS    |
| Band2 | 1.4                | 19193         | 3          | #0             | QPSK       | 22.01          | 3             | 25.01         | PASS    |
| Band2 | 1.4                | 19193         | 3          | #Mid           | QPSK       | 21.98          | 3             | 24.98         | PASS    |
| Band2 | 1.4                | 19193         | 3          | #Max           | QPSK       | 21.95          | 3             | 24.95         | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | 21.00          | 3             | 24.00         | PASS    |
| Band2 | 1.4                | 19193         | 1          | #0             | 16QAM      | 21.05          | 3             | 24.05         | PASS    |

|       |     |       |    |      |       |       |   |       |      |
|-------|-----|-------|----|------|-------|-------|---|-------|------|
| Band2 | 1.4 | 19193 | 1  | #Mid | 16QAM | 21.07 | 3 | 24.07 | PASS |
| Band2 | 1.4 | 19193 | 1  | #Max | 16QAM | 21.03 | 3 | 24.03 | PASS |
| Band2 | 1.4 | 19193 | 3  | #0   | 16QAM | 20.96 | 3 | 23.96 | PASS |
| Band2 | 1.4 | 19193 | 3  | #Mid | 16QAM | 20.95 | 3 | 23.95 | PASS |
| Band2 | 1.4 | 19193 | 3  | #Max | 16QAM | 20.94 | 3 | 23.94 | PASS |
| Band2 | 1.4 | 19193 | 6  | #0   | 16QAM | 19.95 | 3 | 22.95 | PASS |
| Band2 | 3   | 18615 | 1  | #0   | QPSK  | 21.67 | 3 | 24.67 | PASS |
| Band2 | 3   | 18615 | 1  | #Mid | QPSK  | 21.92 | 3 | 24.92 | PASS |
| Band2 | 3   | 18615 | 1  | #Max | QPSK  | 21.93 | 3 | 24.93 | PASS |
| Band2 | 3   | 18615 | 8  | #0   | QPSK  | 20.92 | 3 | 23.92 | PASS |
| Band2 | 3   | 18615 | 8  | #Mid | QPSK  | 21.00 | 3 | 24.00 | PASS |
| Band2 | 3   | 18615 | 8  | #Max | QPSK  | 21.03 | 3 | 24.03 | PASS |
| Band2 | 3   | 18615 | 15 | #0   | QPSK  | 20.92 | 3 | 23.92 | PASS |
| Band2 | 3   | 18615 | 1  | #0   | 16QAM | 21.14 | 3 | 24.14 | PASS |
| Band2 | 3   | 18615 | 1  | #Mid | 16QAM | 21.40 | 3 | 24.40 | PASS |
| Band2 | 3   | 18615 | 1  | #Max | 16QAM | 21.32 | 3 | 24.32 | PASS |
| Band2 | 3   | 18615 | 8  | #0   | 16QAM | 19.89 | 3 | 22.89 | PASS |
| Band2 | 3   | 18615 | 8  | #Mid | 16QAM | 20.08 | 3 | 23.08 | PASS |
| Band2 | 3   | 18615 | 8  | #Max | 16QAM | 20.12 | 3 | 23.12 | PASS |
| Band2 | 3   | 18615 | 15 | #0   | 16QAM | 20.02 | 3 | 23.02 | PASS |
| Band2 | 3   | 18900 | 1  | #0   | QPSK  | 21.35 | 3 | 24.35 | PASS |
| Band2 | 3   | 18900 | 1  | #Mid | QPSK  | 21.47 | 3 | 24.47 | PASS |
| Band2 | 3   | 18900 | 1  | #Max | QPSK  | 21.29 | 3 | 24.29 | PASS |
| Band2 | 3   | 18900 | 8  | #0   | QPSK  | 20.42 | 3 | 23.42 | PASS |
| Band2 | 3   | 18900 | 8  | #Mid | QPSK  | 20.44 | 3 | 23.44 | PASS |
| Band2 | 3   | 18900 | 8  | #Max | QPSK  | 20.39 | 3 | 23.39 | PASS |
| Band2 | 3   | 18900 | 15 | #0   | QPSK  | 20.35 | 3 | 23.35 | PASS |
| Band2 | 3   | 18900 | 1  | #0   | 16QAM | 20.25 | 3 | 23.25 | PASS |
| Band2 | 3   | 18900 | 1  | #Mid | 16QAM | 20.39 | 3 | 23.39 | PASS |
| Band2 | 3   | 18900 | 1  | #Max | 16QAM | 20.21 | 3 | 23.21 | PASS |
| Band2 | 3   | 18900 | 8  | #0   | 16QAM | 19.60 | 3 | 22.60 | PASS |
| Band2 | 3   | 18900 | 8  | #Mid | 16QAM | 19.77 | 3 | 22.77 | PASS |
| Band2 | 3   | 18900 | 8  | #Max | 16QAM | 19.69 | 3 | 22.69 | PASS |
| Band2 | 3   | 18900 | 15 | #0   | 16QAM | 19.52 | 3 | 22.52 | PASS |
| Band2 | 3   | 19185 | 1  | #0   | QPSK  | 21.60 | 3 | 24.60 | PASS |
| Band2 | 3   | 19185 | 1  | #Mid | QPSK  | 21.87 | 3 | 24.87 | PASS |
| Band2 | 3   | 19185 | 1  | #Max | QPSK  | 21.70 | 3 | 24.70 | PASS |
| Band2 | 3   | 19185 | 8  | #0   | QPSK  | 20.72 | 3 | 23.72 | PASS |
| Band2 | 3   | 19185 | 8  | #Mid | QPSK  | 20.84 | 3 | 23.84 | PASS |
| Band2 | 3   | 19185 | 8  | #Max | QPSK  | 20.84 | 3 | 23.84 | PASS |
| Band2 | 3   | 19185 | 15 | #0   | QPSK  | 20.88 | 3 | 23.88 | PASS |
| Band2 | 3   | 19185 | 1  | #0   | 16QAM | 20.75 | 3 | 23.75 | PASS |
| Band2 | 3   | 19185 | 1  | #Mid | 16QAM | 21.01 | 3 | 24.01 | PASS |

|       |   |       |    |      |       |       |   |       |      |
|-------|---|-------|----|------|-------|-------|---|-------|------|
| Band2 | 3 | 19185 | 1  | #Max | 16QAM | 20.83 | 3 | 23.83 | PASS |
| Band2 | 3 | 19185 | 8  | #0   | 16QAM | 19.83 | 3 | 22.83 | PASS |
| Band2 | 3 | 19185 | 8  | #Mid | 16QAM | 19.95 | 3 | 22.95 | PASS |
| Band2 | 3 | 19185 | 8  | #Max | 16QAM | 19.92 | 3 | 22.92 | PASS |
| Band2 | 3 | 19185 | 15 | #0   | 16QAM | 19.91 | 3 | 22.91 | PASS |
| Band2 | 5 | 18625 | 1  | #0   | QPSK  | 21.92 | 3 | 24.92 | PASS |
| Band2 | 5 | 18625 | 1  | #Mid | QPSK  | 22.05 | 3 | 25.05 | PASS |
| Band2 | 5 | 18625 | 1  | #Max | QPSK  | 22.13 | 3 | 25.13 | PASS |
| Band2 | 5 | 18625 | 12 | #0   | QPSK  | 20.92 | 3 | 23.92 | PASS |
| Band2 | 5 | 18625 | 12 | #Mid | QPSK  | 21.01 | 3 | 24.01 | PASS |
| Band2 | 5 | 18625 | 12 | #Max | QPSK  | 21.09 | 3 | 24.09 | PASS |
| Band2 | 5 | 18625 | 25 | #0   | QPSK  | 20.95 | 3 | 23.95 | PASS |
| Band2 | 5 | 18625 | 1  | #0   | 16QAM | 21.18 | 3 | 24.18 | PASS |
| Band2 | 5 | 18625 | 1  | #Mid | 16QAM | 21.38 | 3 | 24.38 | PASS |
| Band2 | 5 | 18625 | 1  | #Max | 16QAM | 21.48 | 3 | 24.48 | PASS |
| Band2 | 5 | 18625 | 12 | #0   | 16QAM | 20.02 | 3 | 23.02 | PASS |
| Band2 | 5 | 18625 | 12 | #Mid | 16QAM | 20.18 | 3 | 23.18 | PASS |
| Band2 | 5 | 18625 | 12 | #Max | 16QAM | 20.26 | 3 | 23.26 | PASS |
| Band2 | 5 | 18625 | 25 | #0   | 16QAM | 20.20 | 3 | 23.20 | PASS |
| Band2 | 5 | 18900 | 1  | #0   | QPSK  | 21.44 | 3 | 24.44 | PASS |
| Band2 | 5 | 18900 | 1  | #Mid | QPSK  | 21.39 | 3 | 24.39 | PASS |
| Band2 | 5 | 18900 | 1  | #Max | QPSK  | 21.48 | 3 | 24.48 | PASS |
| Band2 | 5 | 18900 | 12 | #0   | QPSK  | 20.39 | 3 | 23.39 | PASS |
| Band2 | 5 | 18900 | 12 | #Mid | QPSK  | 20.39 | 3 | 23.39 | PASS |
| Band2 | 5 | 18900 | 12 | #Max | QPSK  | 20.40 | 3 | 23.40 | PASS |
| Band2 | 5 | 18900 | 25 | #0   | QPSK  | 20.37 | 3 | 23.37 | PASS |
| Band2 | 5 | 18900 | 1  | #0   | 16QAM | 20.79 | 3 | 23.79 | PASS |
| Band2 | 5 | 18900 | 1  | #Mid | 16QAM | 20.78 | 3 | 23.78 | PASS |
| Band2 | 5 | 18900 | 1  | #Max | 16QAM | 20.87 | 3 | 23.87 | PASS |
| Band2 | 5 | 18900 | 12 | #0   | 16QAM | 19.41 | 3 | 22.41 | PASS |
| Band2 | 5 | 18900 | 12 | #Mid | 16QAM | 19.40 | 3 | 22.40 | PASS |
| Band2 | 5 | 18900 | 12 | #Max | 16QAM | 19.43 | 3 | 22.43 | PASS |
| Band2 | 5 | 18900 | 25 | #0   | 16QAM | 19.41 | 3 | 22.41 | PASS |
| Band2 | 5 | 19175 | 1  | #0   | QPSK  | 21.12 | 3 | 24.12 | PASS |
| Band2 | 5 | 19175 | 1  | #Mid | QPSK  | 21.37 | 3 | 24.37 | PASS |
| Band2 | 5 | 19175 | 1  | #Max | QPSK  | 21.43 | 3 | 24.43 | PASS |
| Band2 | 5 | 19175 | 12 | #0   | QPSK  | 20.45 | 3 | 23.45 | PASS |
| Band2 | 5 | 19175 | 12 | #Mid | QPSK  | 20.60 | 3 | 23.60 | PASS |
| Band2 | 5 | 19175 | 12 | #Max | QPSK  | 20.71 | 3 | 23.71 | PASS |
| Band2 | 5 | 19175 | 25 | #0   | QPSK  | 20.56 | 3 | 23.56 | PASS |
| Band2 | 5 | 19175 | 1  | #0   | 16QAM | 20.83 | 3 | 23.83 | PASS |
| Band2 | 5 | 19175 | 1  | #Mid | 16QAM | 21.13 | 3 | 24.13 | PASS |
| Band2 | 5 | 19175 | 1  | #Max | 16QAM | 21.20 | 3 | 24.20 | PASS |

|       |    |       |    |      |       |       |   |       |      |
|-------|----|-------|----|------|-------|-------|---|-------|------|
| Band2 | 5  | 19175 | 12 | #0   | 16QAM | 19.50 | 3 | 22.50 | PASS |
| Band2 | 5  | 19175 | 12 | #Mid | 16QAM | 19.66 | 3 | 22.66 | PASS |
| Band2 | 5  | 19175 | 12 | #Max | 16QAM | 19.78 | 3 | 22.78 | PASS |
| Band2 | 5  | 19175 | 25 | #0   | 16QAM | 19.62 | 3 | 22.62 | PASS |
| Band2 | 10 | 18650 | 1  | #0   | QPSK  | 21.75 | 3 | 24.75 | PASS |
| Band2 | 10 | 18650 | 1  | #Mid | QPSK  | 21.95 | 3 | 24.95 | PASS |
| Band2 | 10 | 18650 | 1  | #Max | QPSK  | 22.18 | 3 | 25.18 | PASS |
| Band2 | 10 | 18650 | 25 | #0   | QPSK  | 20.94 | 3 | 23.94 | PASS |
| Band2 | 10 | 18650 | 25 | #Mid | QPSK  | 21.06 | 3 | 24.06 | PASS |
| Band2 | 10 | 18650 | 25 | #Max | QPSK  | 21.17 | 3 | 24.17 | PASS |
| Band2 | 10 | 18650 | 50 | #0   | QPSK  | 21.03 | 3 | 24.03 | PASS |
| Band2 | 10 | 18900 | 1  | #0   | QPSK  | 21.33 | 3 | 24.33 | PASS |
| Band2 | 10 | 18900 | 1  | #Mid | QPSK  | 21.15 | 3 | 24.15 | PASS |
| Band2 | 10 | 18900 | 1  | #Max | QPSK  | 21.49 | 3 | 24.49 | PASS |
| Band2 | 10 | 18900 | 25 | #0   | QPSK  | 20.35 | 3 | 23.35 | PASS |
| Band2 | 10 | 18900 | 25 | #Mid | QPSK  | 20.33 | 3 | 23.33 | PASS |
| Band2 | 10 | 18900 | 25 | #Max | QPSK  | 20.43 | 3 | 23.43 | PASS |
| Band2 | 10 | 18900 | 50 | #0   | QPSK  | 20.41 | 3 | 23.41 | PASS |
| Band2 | 10 | 19150 | 1  | #0   | QPSK  | 21.58 | 3 | 24.58 | PASS |
| Band2 | 10 | 19150 | 1  | #Mid | QPSK  | 21.29 | 3 | 24.29 | PASS |
| Band2 | 10 | 19150 | 1  | #Max | QPSK  | 21.70 | 3 | 24.70 | PASS |
| Band2 | 10 | 19150 | 25 | #0   | QPSK  | 20.16 | 3 | 23.16 | PASS |
| Band2 | 10 | 19150 | 25 | #Mid | QPSK  | 20.18 | 3 | 23.18 | PASS |
| Band2 | 10 | 19150 | 25 | #Max | QPSK  | 20.47 | 3 | 23.47 | PASS |
| Band2 | 10 | 19150 | 50 | #0   | QPSK  | 20.27 | 3 | 23.27 | PASS |
| Band2 | 15 | 18675 | 1  | #0   | QPSK  | 21.64 | 3 | 24.64 | PASS |
| Band2 | 15 | 18675 | 1  | #Mid | QPSK  | 22.10 | 3 | 25.10 | PASS |
| Band2 | 15 | 18675 | 1  | #Max | QPSK  | 22.10 | 3 | 25.10 | PASS |
| Band2 | 15 | 18675 | 36 | #0   | QPSK  | 21.10 | 3 | 24.10 | PASS |
| Band2 | 15 | 18675 | 36 | #Mid | QPSK  | 21.27 | 3 | 24.27 | PASS |
| Band2 | 15 | 18675 | 36 | #Max | QPSK  | 21.31 | 3 | 24.31 | PASS |
| Band2 | 15 | 18675 | 75 | #0   | QPSK  | 22.04 | 3 | 25.04 | PASS |
| Band2 | 15 | 18900 | 1  | #0   | QPSK  | 21.47 | 3 | 24.47 | PASS |
| Band2 | 15 | 18900 | 1  | #Mid | QPSK  | 21.38 | 3 | 24.38 | PASS |
| Band2 | 15 | 18900 | 1  | #Max | QPSK  | 21.79 | 3 | 24.79 | PASS |
| Band2 | 15 | 18900 | 36 | #0   | QPSK  | 20.52 | 3 | 23.52 | PASS |
| Band2 | 15 | 18900 | 36 | #Mid | QPSK  | 20.48 | 3 | 23.48 | PASS |
| Band2 | 15 | 18900 | 36 | #Max | QPSK  | 20.68 | 3 | 23.68 | PASS |
| Band2 | 15 | 18900 | 75 | #0   | QPSK  | 21.61 | 3 | 24.61 | PASS |
| Band2 | 15 | 19125 | 1  | #0   | QPSK  | 22.17 | 3 | 25.17 | PASS |
| Band2 | 15 | 19125 | 1  | #Mid | QPSK  | 21.51 | 3 | 24.51 | PASS |
| Band2 | 15 | 19125 | 1  | #Max | QPSK  | 21.84 | 3 | 24.84 | PASS |
| Band2 | 15 | 19125 | 36 | #0   | QPSK  | 20.97 | 3 | 23.97 | PASS |

|       |    |       |     |      |      |       |   |       |      |
|-------|----|-------|-----|------|------|-------|---|-------|------|
| Band2 | 15 | 19125 | 36  | #Mid | QPSK | 20.61 | 3 | 23.61 | PASS |
| Band2 | 15 | 19125 | 36  | #Max | QPSK | 20.62 | 3 | 23.62 | PASS |
| Band2 | 15 | 19125 | 75  | #0   | QPSK | 21.95 | 3 | 24.95 | PASS |
| Band2 | 20 | 18700 | 1   | #0   | QPSK | 22.03 | 3 | 25.03 | PASS |
| Band2 | 20 | 18700 | 1   | #Mid | QPSK | 22.52 | 3 | 25.52 | PASS |
| Band2 | 20 | 18700 | 1   | #Max | QPSK | 22.03 | 3 | 25.03 | PASS |
| Band2 | 20 | 18700 | 50  | #0   | QPSK | 21.44 | 3 | 24.44 | PASS |
| Band2 | 20 | 18700 | 50  | #Mid | QPSK | 21.59 | 3 | 24.59 | PASS |
| Band2 | 20 | 18700 | 50  | #Max | QPSK | 21.46 | 3 | 24.46 | PASS |
| Band2 | 20 | 18700 | 100 | #0   | QPSK | 21.96 | 3 | 24.96 | PASS |
| Band2 | 20 | 18900 | 1   | #0   | QPSK | 22.14 | 3 | 25.14 | PASS |
| Band2 | 20 | 18900 | 1   | #Mid | QPSK | 21.89 | 3 | 24.89 | PASS |
| Band2 | 20 | 18900 | 1   | #Max | QPSK | 22.38 | 3 | 25.38 | PASS |
| Band2 | 20 | 18900 | 50  | #0   | QPSK | 20.89 | 3 | 23.89 | PASS |
| Band2 | 20 | 18900 | 50  | #Mid | QPSK | 20.80 | 3 | 23.80 | PASS |
| Band2 | 20 | 18900 | 50  | #Max | QPSK | 21.00 | 3 | 24.00 | PASS |
| Band2 | 20 | 18900 | 100 | #0   | QPSK | 22.17 | 3 | 25.17 | PASS |
| Band2 | 20 | 19100 | 1   | #0   | QPSK | 22.60 | 3 | 25.60 | PASS |
| Band2 | 20 | 19100 | 1   | #Mid | QPSK | 22.05 | 3 | 25.05 | PASS |
| Band2 | 20 | 19100 | 1   | #Max | QPSK | 21.94 | 3 | 24.94 | PASS |
| Band2 | 20 | 19100 | 50  | #0   | QPSK | 21.52 | 3 | 24.52 | PASS |
| Band2 | 20 | 19100 | 50  | #Mid | QPSK | 21.06 | 3 | 24.06 | PASS |
| Band2 | 20 | 19100 | 50  | #Max | QPSK | 20.83 | 3 | 23.83 | PASS |
| Band2 | 20 | 19100 | 100 | #0   | QPSK | 22.21 | 3 | 25.21 | PASS |



## Appendix 2. Frequency stability

| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Voltage<br>(Vdc) | Temperatue<br>(C) | Result<br>(Hz) | Result<br>(ppm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|------------------|-------------------|----------------|-----------------|---------|
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | LV               | NT                | -6.02          | -0.003          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | NT                | -4.05          | -0.002          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | HV               | NT                | -4.66          | -0.003          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | LV               | NT                | -4.59          | -0.002          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | NT                | -4.79          | -0.003          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | HV               | NT                | -3.40          | -0.002          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | LV               | NT                | -4.11          | -0.002          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | NT                | -2.07          | -0.001          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | HV               | NT                | -5.32          | -0.003          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | LV               | NT                | -2.78          | -0.001          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | NT                | -1.26          | -0.001          | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | HV               | NT                | -4.92          | -0.003          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | LV               | NT                | -2.93          | -0.002          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | NV               | NT                | -3.00          | -0.002          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | HV               | NT                | -4.51          | -0.002          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | 16QAM      | LV               | NT                | -4.22          | -0.002          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | 16QAM      | NV               | NT                | -4.55          | -0.002          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | 16QAM      | HV               | NT                | -3.59          | -0.002          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | QPSK       | LV               | NT                | -2.68          | -0.001          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | QPSK       | NV               | NT                | -3.88          | -0.002          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | QPSK       | HV               | NT                | -4.19          | -0.002          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | 16QAM      | LV               | NT                | -2.98          | -0.002          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | 16QAM      | NV               | NT                | -2.79          | -0.002          | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | 16QAM      | HV               | NT                | -3.42          | -0.002          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | QPSK       | LV               | NT                | -2.70          | -0.001          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | QPSK       | NV               | NT                | -3.66          | -0.002          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | QPSK       | HV               | NT                | -2.66          | -0.001          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | 16QAM      | LV               | NT                | -3.93          | -0.002          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | 16QAM      | NV               | NT                | -3.20          | -0.002          | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | 16QAM      | HV               | NT                | -2.86          | -0.002          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | QPSK       | LV               | NT                | -5.16          | -0.003          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | QPSK       | NV               | NT                | -3.13          | -0.002          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | QPSK       | HV               | NT                | -3.88          | -0.002          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | 16QAM      | LV               | NT                | -3.50          | -0.002          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | 16QAM      | NV               | NT                | -4.85          | -0.003          | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | 16QAM      | HV               | NT                | -3.72          | -0.002          | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | QPSK       | LV               | NT                | -3.89          | -0.002          | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | QPSK       | NV               | NT                | -4.05          | -0.002          | PASS    |

|       |    |       |     |    |       |    |    |       |        |      |
|-------|----|-------|-----|----|-------|----|----|-------|--------|------|
| Band2 | 5  | 18625 | 25  | #0 | QPSK  | HV | NT | -4.62 | -0.002 | PASS |
| Band2 | 5  | 18625 | 25  | #0 | 16QAM | LV | NT | -4.56 | -0.002 | PASS |
| Band2 | 5  | 18625 | 25  | #0 | 16QAM | NV | NT | -3.85 | -0.002 | PASS |
| Band2 | 5  | 18625 | 25  | #0 | 16QAM | HV | NT | -3.76 | -0.002 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | QPSK  | LV | NT | -2.50 | -0.001 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | QPSK  | NV | NT | -2.29 | -0.001 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | QPSK  | HV | NT | -0.96 | -0.001 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | 16QAM | LV | NT | -2.68 | -0.001 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | 16QAM | NV | NT | -2.76 | -0.001 | PASS |
| Band2 | 5  | 18900 | 25  | #0 | 16QAM | HV | NT | -2.03 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | QPSK  | LV | NT | -4.32 | -0.002 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | QPSK  | NV | NT | -4.86 | -0.003 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | QPSK  | HV | NT | -3.45 | -0.002 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | 16QAM | LV | NT | -5.21 | -0.003 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | 16QAM | NV | NT | -3.72 | -0.002 | PASS |
| Band2 | 5  | 19175 | 25  | #0 | 16QAM | HV | NT | -3.72 | -0.002 | PASS |
| Band2 | 10 | 18650 | 50  | #0 | QPSK  | LV | NT | -2.47 | -0.001 | PASS |
| Band2 | 10 | 18650 | 50  | #0 | QPSK  | NV | NT | -1.77 | -0.001 | PASS |
| Band2 | 10 | 18650 | 50  | #0 | QPSK  | HV | NT | -3.52 | -0.002 | PASS |
| Band2 | 10 | 18900 | 50  | #0 | QPSK  | LV | NT | -2.40 | -0.001 | PASS |
| Band2 | 10 | 18900 | 50  | #0 | QPSK  | NV | NT | -2.59 | -0.001 | PASS |
| Band2 | 10 | 18900 | 50  | #0 | QPSK  | HV | NT | -2.93 | -0.002 | PASS |
| Band2 | 10 | 19150 | 50  | #0 | QPSK  | LV | NT | -3.19 | -0.002 | PASS |
| Band2 | 10 | 19150 | 50  | #0 | QPSK  | NV | NT | -2.55 | -0.001 | PASS |
| Band2 | 10 | 19150 | 50  | #0 | QPSK  | HV | NT | -2.79 | -0.001 | PASS |
| Band2 | 15 | 18675 | 75  | #0 | QPSK  | LV | NT | -2.96 | -0.002 | PASS |
| Band2 | 15 | 18675 | 75  | #0 | QPSK  | NV | NT | -2.25 | -0.001 | PASS |
| Band2 | 15 | 18675 | 75  | #0 | QPSK  | HV | NT | -3.79 | -0.002 | PASS |
| Band2 | 15 | 18900 | 75  | #0 | QPSK  | LV | NT | -0.64 | 0.000  | PASS |
| Band2 | 15 | 18900 | 75  | #0 | QPSK  | NV | NT | -0.66 | 0.000  | PASS |
| Band2 | 15 | 18900 | 75  | #0 | QPSK  | HV | NT | -2.10 | -0.001 | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK  | LV | NT | -2.43 | -0.001 | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK  | NV | NT | -2.57 | -0.001 | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK  | HV | NT | -2.30 | -0.001 | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK  | LV | NT | -2.90 | -0.002 | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK  | NV | NT | -2.76 | -0.001 | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK  | HV | NT | -2.45 | -0.001 | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK  | LV | NT | -2.00 | -0.001 | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK  | NV | NT | -2.83 | -0.002 | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK  | HV | NT | -2.40 | -0.001 | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK  | LV | NT | -2.47 | -0.001 | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK  | NV | NT | -1.27 | -0.001 | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK  | HV | NT | -2.86 | -0.002 | PASS |

| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Voltage<br>(Vdc) | Temperature<br>(C) | Result<br>(Hz) | Result<br>(ppm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|------------------|--------------------|----------------|-----------------|---------|
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | -30                | -0.89          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | -20                | 0.07           | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | -10                | 1.27           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 0                  | 1.63           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 10                 | -0.20          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 20                 | 0.39           | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 30                 | 1.69           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 40                 | -0.29          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | NV               | 50                 | -0.11          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | -30                | 1.12           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | -20                | 0.93           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | -10                | -0.10          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 0                  | -1.53          | -0.001          | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 10                 | -0.77          | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 20                 | 1.00           | 0.001           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 30                 | 0.01           | 0.000           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 40                 | 3.22           | 0.002           | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | NV               | 50                 | 0.14           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | -30                | 0.62           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | -20                | 0.66           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | -10                | 1.26           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 0                  | 1.67           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 10                 | 0.50           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 20                 | 0.23           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 30                 | 1.26           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 40                 | 0.69           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | NV               | 50                 | 0.34           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | -30                | 0.47           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | -20                | 1.46           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | -10                | 0.97           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 0                  | -0.23          | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 10                 | 1.99           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 20                 | 1.10           | 0.001           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 30                 | 0.23           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 40                 | 0.87           | 0.000           | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | NV               | 50                 | 0.24           | 0.000           | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | NV               | -30                | -0.87          | 0.000           | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | NV               | -20                | -1.86          | -0.001          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | NV               | -10                | -0.97          | -0.001          | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | NV               | 0                  | -0.47          | 0.000           | PASS    |

|       |     |       |    |    |       |    |     |       |        |      |
|-------|-----|-------|----|----|-------|----|-----|-------|--------|------|
| Band2 | 1.4 | 19193 | 6  | #0 | QPSK  | NV | 10  | 0.17  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | QPSK  | NV | 20  | -0.40 | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | QPSK  | NV | 30  | -1.97 | -0.001 | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | QPSK  | NV | 40  | 0.67  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | QPSK  | NV | 50  | -1.60 | -0.001 | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | -30 | 1.04  | 0.001  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | -20 | 0.34  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | -10 | 0.19  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 0   | 0.94  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 10  | 0.86  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 20  | 1.33  | 0.001  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 30  | 1.63  | 0.001  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 40  | 0.54  | 0.000  | PASS |
| Band2 | 1.4 | 19193 | 6  | #0 | 16QAM | NV | 50  | 0.60  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | -30 | -0.30 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | -20 | -0.17 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | -10 | 1.12  | 0.001  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 0   | 0.97  | 0.001  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 10  | 0.26  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 20  | 1.22  | 0.001  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 30  | -1.02 | -0.001 | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 40  | 1.40  | 0.001  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | QPSK  | NV | 50  | 0.53  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | -30 | -0.01 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | -20 | -0.09 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | -10 | -0.10 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 0   | -0.09 | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 10  | 1.53  | 0.001  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 20  | 0.01  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 30  | 0.20  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 40  | 0.44  | 0.000  | PASS |
| Band2 | 3   | 18615 | 15 | #0 | 16QAM | NV | 50  | 1.56  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | -30 | 0.39  | 0.000  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | -20 | 0.64  | 0.000  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | -10 | 0.99  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 0   | 1.02  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 10  | 1.39  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 20  | 0.92  | 0.000  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 30  | 1.19  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 40  | 0.79  | 0.000  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | QPSK  | NV | 50  | 1.37  | 0.001  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | 16QAM | NV | -30 | 0.10  | 0.000  | PASS |
| Band2 | 3   | 18900 | 15 | #0 | 16QAM | NV | -20 | 0.87  | 0.000  | PASS |

|       |   |       |    |    |       |    |     |       |        |      |
|-------|---|-------|----|----|-------|----|-----|-------|--------|------|
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | -10 | 0.77  | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 0   | 0.03  | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 10  | -0.62 | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 20  | -0.69 | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 30  | 0.54  | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 40  | 0.39  | 0.000  | PASS |
| Band2 | 3 | 18900 | 15 | #0 | 16QAM | NV | 50  | -0.27 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | -30 | -1.32 | -0.001 | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | -20 | -0.54 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | -10 | -1.29 | -0.001 | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 0   | -0.73 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 10  | 0.90  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 20  | 0.53  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 30  | -0.89 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 40  | 0.72  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | QPSK  | NV | 50  | -0.54 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | -30 | -0.26 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | -20 | -1.47 | -0.001 | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | -10 | 0.90  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 0   | -0.79 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 10  | 0.03  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 20  | 0.31  | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 30  | 1.00  | 0.001  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 40  | -0.20 | 0.000  | PASS |
| Band2 | 3 | 19185 | 15 | #0 | 16QAM | NV | 50  | 0.66  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | -30 | -1.60 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | -20 | 0.17  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | -10 | 0.20  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 0   | -0.06 | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 10  | 0.16  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 20  | -1.75 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 30  | 0.82  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 40  | -0.67 | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | QPSK  | NV | 50  | -0.47 | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | -30 | -0.33 | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | -20 | 0.36  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | -10 | -1.02 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 0   | -0.97 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 10  | -1.50 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 20  | -1.03 | -0.001 | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 30  | -0.20 | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 40  | 0.72  | 0.000  | PASS |
| Band2 | 5 | 18625 | 25 | #0 | 16QAM | NV | 50  | -1.44 | -0.001 | PASS |

|       |    |       |    |    |       |    |     |       |        |      |
|-------|----|-------|----|----|-------|----|-----|-------|--------|------|
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | -30 | -0.19 | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | -20 | -0.01 | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | -10 | 0.60  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 0   | 0.54  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 10  | 1.16  | 0.001  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 20  | 1.37  | 0.001  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 30  | -0.23 | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 40  | 1.19  | 0.001  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | QPSK  | NV | 50  | -0.16 | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | -30 | 1.79  | 0.001  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | -20 | -0.40 | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | -10 | 0.76  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 0   | 1.13  | 0.001  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 10  | 0.80  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 20  | 0.47  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 30  | 0.06  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 40  | 0.62  | 0.000  | PASS |
| Band2 | 5  | 18900 | 25 | #0 | 16QAM | NV | 50  | 1.40  | 0.001  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | -30 | -0.63 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | -20 | -1.67 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | -10 | -0.53 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 0   | -0.04 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 10  | -0.84 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 20  | -0.82 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 30  | -0.76 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 40  | 0.03  | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | QPSK  | NV | 50  | -0.44 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | -30 | -0.56 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | -20 | -0.33 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | -10 | -1.69 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 0   | -0.16 | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 10  | -1.14 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 20  | 0.27  | 0.000  | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 30  | -1.10 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 40  | -1.20 | -0.001 | PASS |
| Band2 | 5  | 19175 | 25 | #0 | 16QAM | NV | 50  | 0.26  | 0.000  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | -30 | -1.26 | -0.001 | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | -20 | 1.26  | 0.001  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | -10 | 1.72  | 0.001  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | 0   | 0.26  | 0.000  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | 10  | 0.04  | 0.000  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | 20  | -0.49 | 0.000  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK  | NV | 30  | 1.54  | 0.001  | PASS |

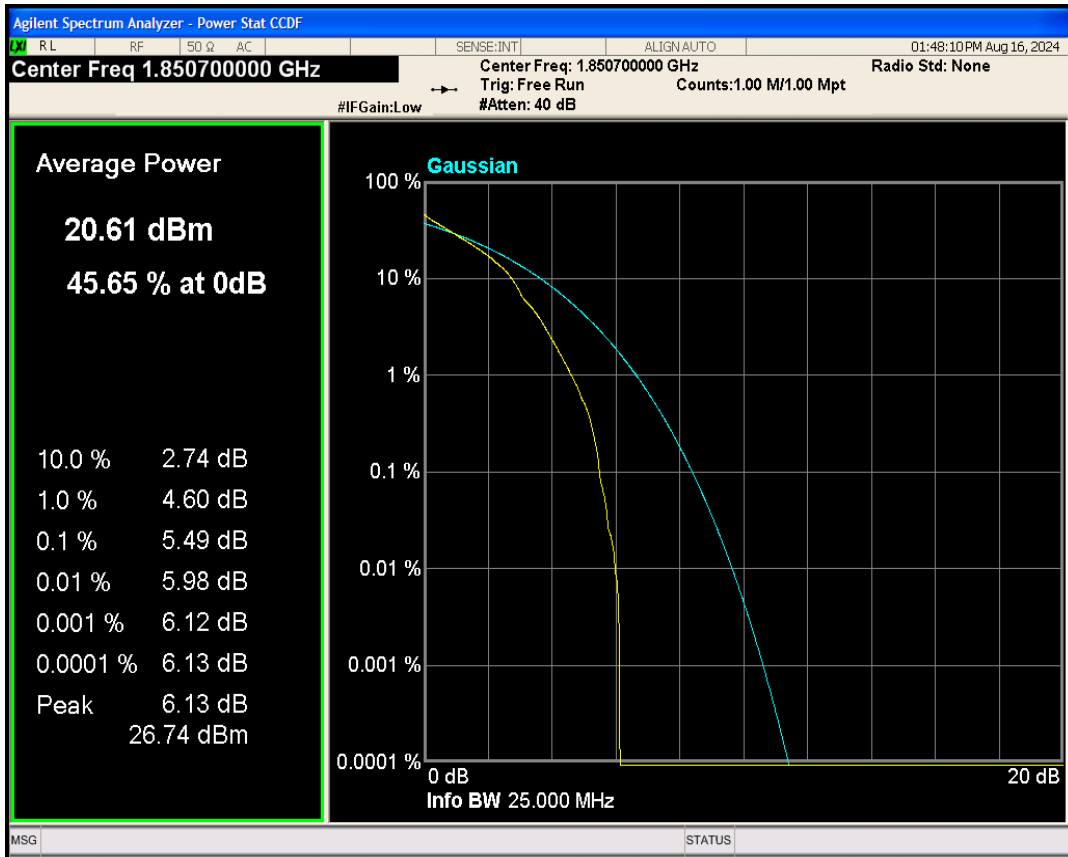
|       |    |       |    |    |      |    |     |       |        |      |
|-------|----|-------|----|----|------|----|-----|-------|--------|------|
| Band2 | 10 | 18650 | 50 | #0 | QPSK | NV | 40  | -0.27 | 0.000  | PASS |
| Band2 | 10 | 18650 | 50 | #0 | QPSK | NV | 50  | 1.49  | 0.001  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | -30 | 0.24  | 0.000  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | -20 | 0.83  | 0.000  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | -10 | 1.59  | 0.001  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 0   | 0.00  | 0.000  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 10  | 1.27  | 0.001  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 20  | 1.56  | 0.001  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 30  | 0.56  | 0.000  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 40  | -0.50 | 0.000  | PASS |
| Band2 | 10 | 18900 | 50 | #0 | QPSK | NV | 50  | 0.57  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | -30 | -0.39 | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | -20 | 0.11  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | -10 | 0.66  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 0   | 1.32  | 0.001  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 10  | 0.24  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 20  | 0.17  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 30  | 0.47  | 0.000  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 40  | 1.46  | 0.001  | PASS |
| Band2 | 10 | 19150 | 50 | #0 | QPSK | NV | 50  | 0.96  | 0.001  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | -30 | -0.44 | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | -20 | 0.09  | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | -10 | -0.06 | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 0   | -0.54 | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 10  | -1.04 | -0.001 | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 20  | 0.11  | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 30  | 0.26  | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 40  | -0.76 | 0.000  | PASS |
| Band2 | 15 | 18675 | 75 | #0 | QPSK | NV | 50  | 0.36  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | -30 | 0.11  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | -20 | 0.31  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | -10 | 0.39  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 0   | 1.59  | 0.001  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 10  | 0.17  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 20  | -0.07 | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 30  | 0.97  | 0.001  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 40  | 0.10  | 0.000  | PASS |
| Band2 | 15 | 18900 | 75 | #0 | QPSK | NV | 50  | 1.50  | 0.001  | PASS |
| Band2 | 15 | 19125 | 75 | #0 | QPSK | NV | -30 | -0.63 | 0.000  | PASS |
| Band2 | 15 | 19125 | 75 | #0 | QPSK | NV | -20 | 1.63  | 0.001  | PASS |
| Band2 | 15 | 19125 | 75 | #0 | QPSK | NV | -10 | -0.47 | 0.000  | PASS |
| Band2 | 15 | 19125 | 75 | #0 | QPSK | NV | 0   | -0.79 | 0.000  | PASS |
| Band2 | 15 | 19125 | 75 | #0 | QPSK | NV | 10  | -1.46 | -0.001 | PASS |

|       |    |       |     |    |      |    |     |       |        |      |
|-------|----|-------|-----|----|------|----|-----|-------|--------|------|
| Band2 | 15 | 19125 | 75  | #0 | QPSK | NV | 20  | 0.72  | 0.000  | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK | NV | 30  | -1.49 | -0.001 | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK | NV | 40  | -0.83 | 0.000  | PASS |
| Band2 | 15 | 19125 | 75  | #0 | QPSK | NV | 50  | 0.41  | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | -30 | -0.59 | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | -20 | -0.03 | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | -10 | 0.00  | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 0   | 0.54  | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 10  | -0.63 | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 20  | -3.33 | -0.002 | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 30  | 0.84  | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 40  | 0.33  | 0.000  | PASS |
| Band2 | 20 | 18700 | 100 | #0 | QPSK | NV | 50  | -0.06 | 0.000  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | -30 | -0.76 | 0.000  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | -20 | 1.00  | 0.001  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | -10 | 1.34  | 0.001  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 0   | 0.01  | 0.000  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 10  | -0.79 | 0.000  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 20  | 1.09  | 0.001  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 30  | 0.80  | 0.000  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 40  | 2.59  | 0.001  | PASS |
| Band2 | 20 | 18900 | 100 | #0 | QPSK | NV | 50  | -0.64 | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | -30 | 0.44  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | -20 | 0.17  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | -10 | -0.94 | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 0   | 0.40  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 10  | 1.16  | 0.001  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 20  | 0.82  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 30  | 0.41  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 40  | 0.51  | 0.000  | PASS |
| Band2 | 20 | 19100 | 100 | #0 | QPSK | NV | 50  | 0.51  | 0.000  | PASS |

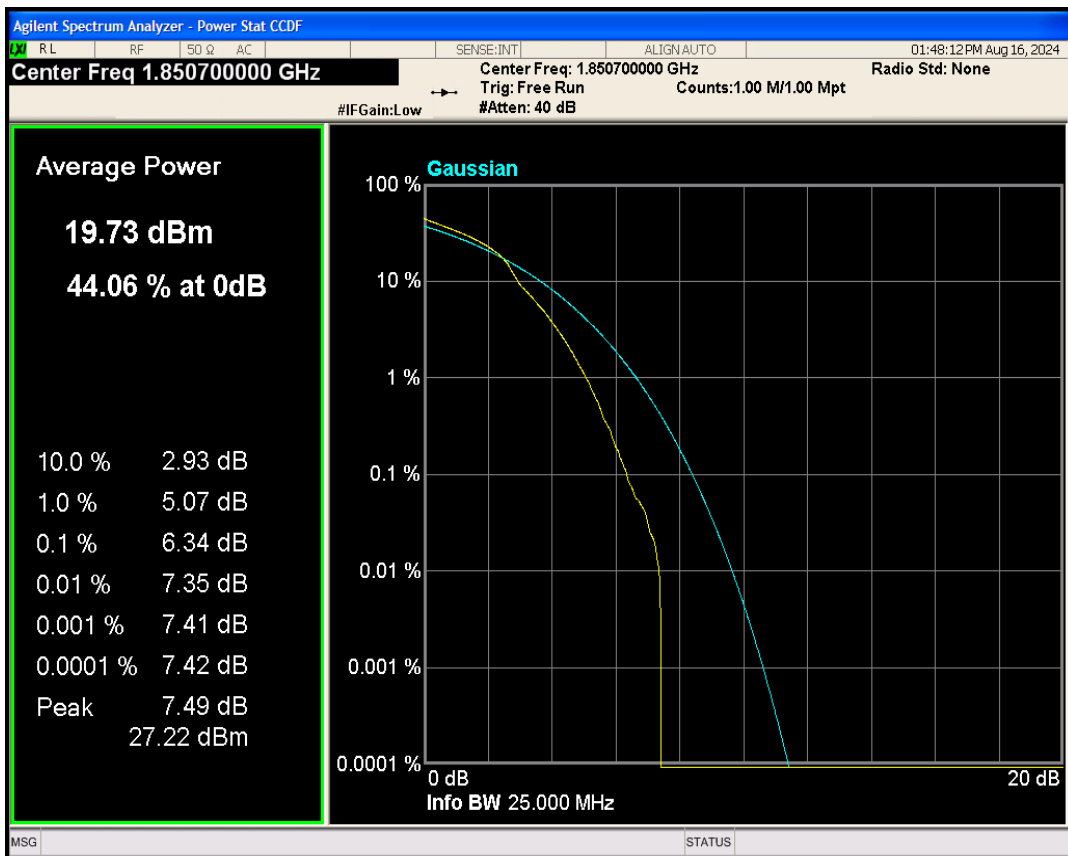
### Appendix 3. Peak-to-Average Ratio

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Result (dB) | high Limit (dB) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-------------|-----------------|---------|
| Band2 | 1.4             | 18607      | 1       | #0          | QPSK       | 5.49        | 13              | PASS    |
| Band2 | 1.4             | 18607      | 1       | #0          | 16QAM      | 6.34        | 13              | PASS    |
| Band2 | 1.4             | 18900      | 1       | #0          | QPSK       | 5.70        | 13              | PASS    |
| Band2 | 1.4             | 18900      | 1       | #0          | 16QAM      | 5.99        | 13              | PASS    |
| Band2 | 1.4             | 19193      | 1       | #0          | QPSK       | 5.12        | 13              | PASS    |
| Band2 | 1.4             | 19193      | 1       | #0          | 16QAM      | 5.55        | 13              | PASS    |
| Band2 | 3               | 18615      | 1       | #0          | QPSK       | 5.33        | 13              | PASS    |
| Band2 | 3               | 18615      | 1       | #0          | 16QAM      | 6.63        | 13              | PASS    |
| Band2 | 3               | 18900      | 1       | #0          | QPSK       | 5.54        | 13              | PASS    |
| Band2 | 3               | 18900      | 1       | #0          | 16QAM      | 6.01        | 13              | PASS    |
| Band2 | 3               | 19185      | 1       | #0          | QPSK       | 5.31        | 13              | PASS    |
| Band2 | 3               | 19185      | 1       | #0          | 16QAM      | 5.86        | 13              | PASS    |
| Band2 | 5               | 18625      | 1       | #0          | QPSK       | 5.32        | 13              | PASS    |
| Band2 | 5               | 18625      | 1       | #0          | 16QAM      | 6.21        | 13              | PASS    |
| Band2 | 5               | 18900      | 1       | #0          | QPSK       | 5.57        | 13              | PASS    |
| Band2 | 5               | 18900      | 1       | #0          | 16QAM      | 6.31        | 13              | PASS    |
| Band2 | 5               | 19175      | 1       | #0          | QPSK       | 5.37        | 13              | PASS    |
| Band2 | 5               | 19175      | 1       | #0          | 16QAM      | 5.78        | 13              | PASS    |
| Band2 | 10              | 18650      | 1       | #0          | QPSK       | 5.28        | 13              | PASS    |
| Band2 | 10              | 18900      | 1       | #0          | QPSK       | 5.61        | 13              | PASS    |
| Band2 | 10              | 19150      | 1       | #0          | QPSK       | 5.48        | 13              | PASS    |
| Band2 | 15              | 18675      | 1       | #0          | QPSK       | 5.50        | 13              | PASS    |
| Band2 | 15              | 18900      | 1       | #0          | QPSK       | 5.64        | 13              | PASS    |
| Band2 | 15              | 19125      | 1       | #0          | QPSK       | 4.64        | 13              | PASS    |
| Band2 | 20              | 18700      | 1       | #0          | QPSK       | 5.49        | 13              | PASS    |
| Band2 | 20              | 18900      | 1       | #0          | QPSK       | 5.59        | 13              | PASS    |
| Band2 | 20              | 19100      | 1       | #0          | QPSK       | 4.19        | 13              | PASS    |

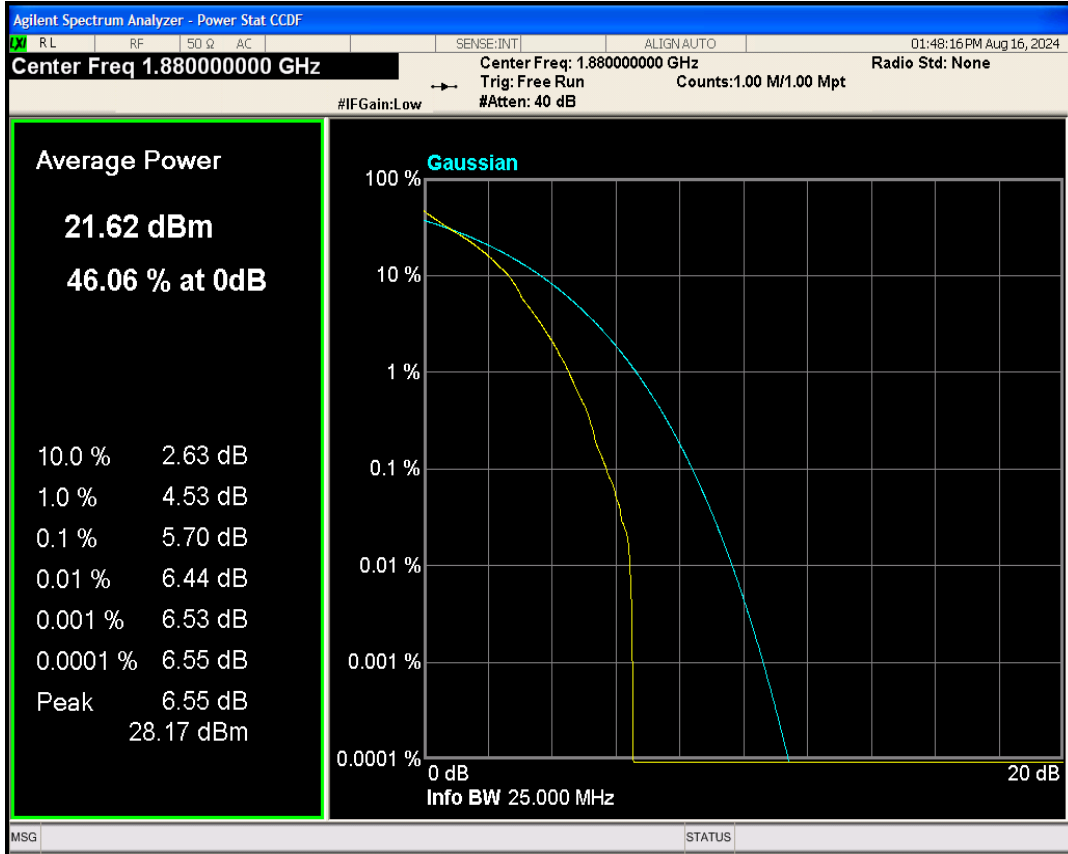
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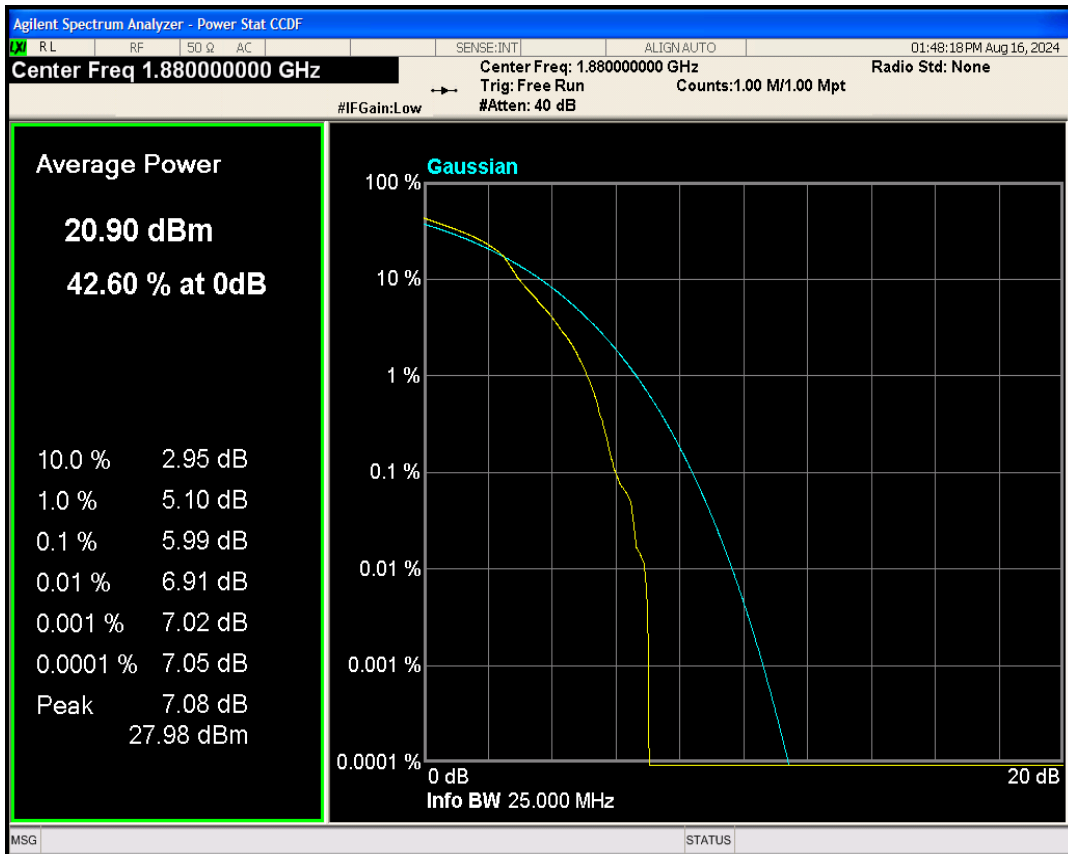
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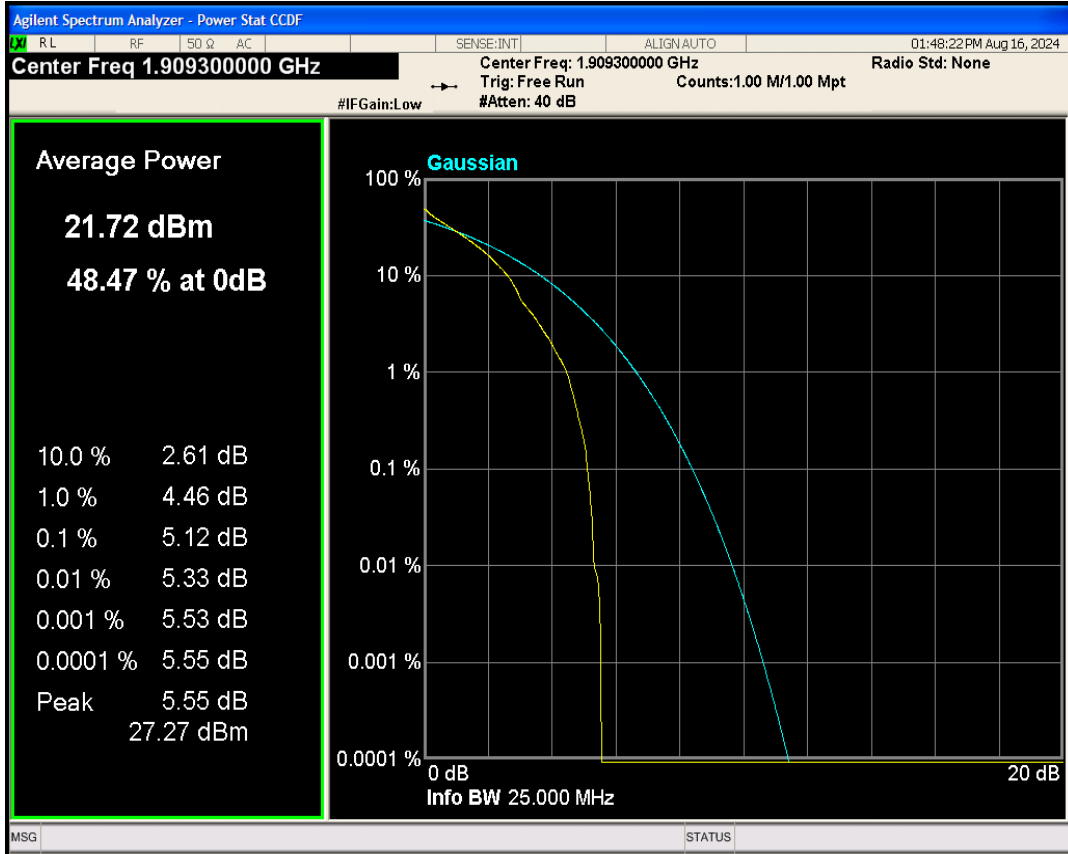
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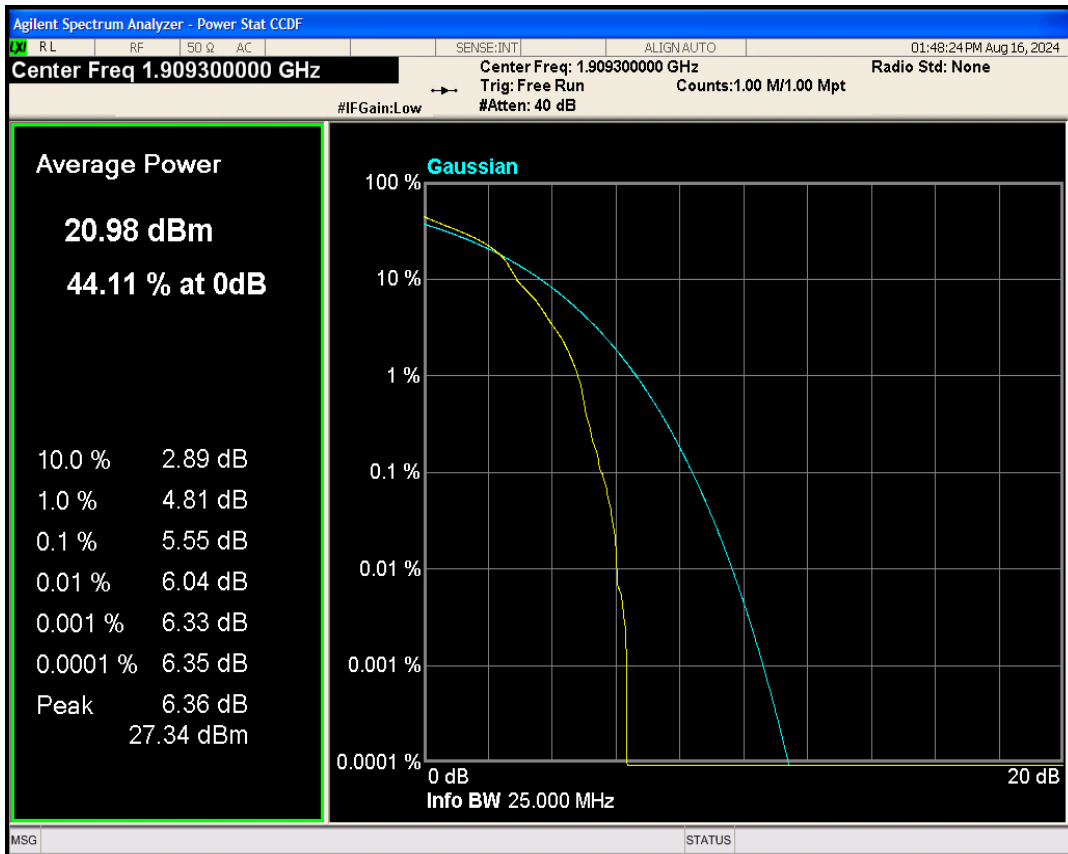
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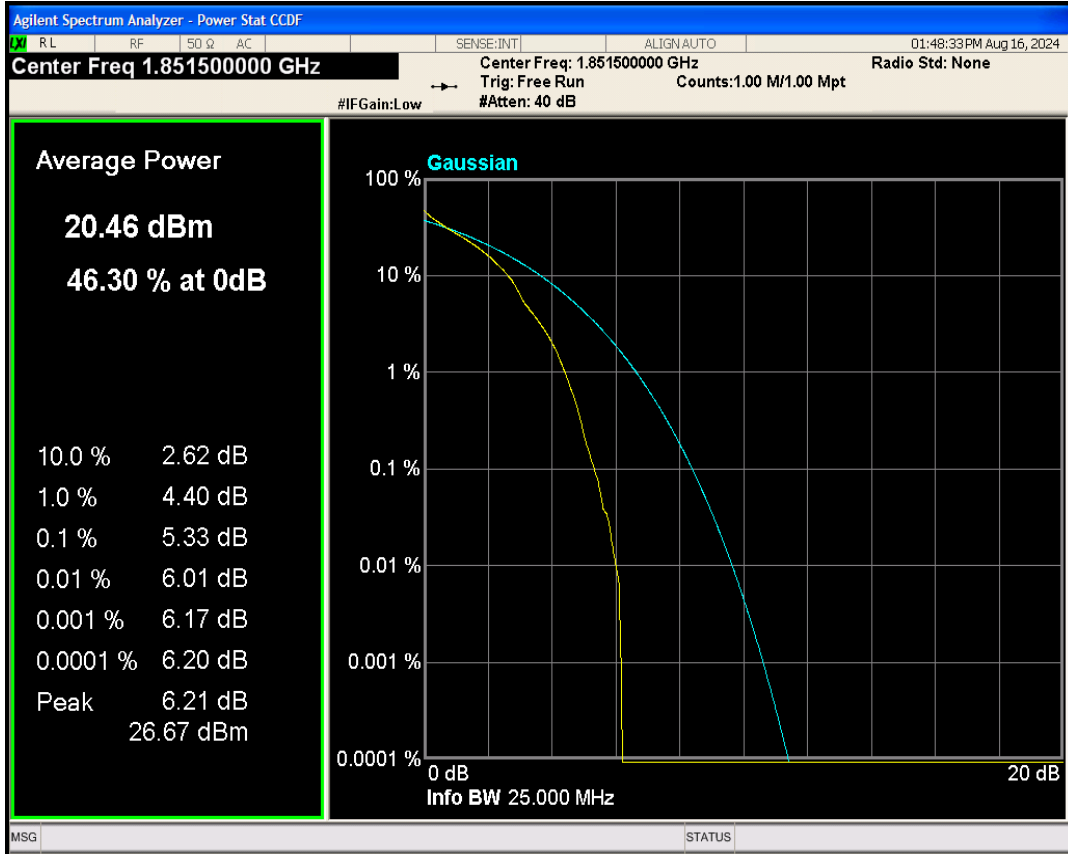
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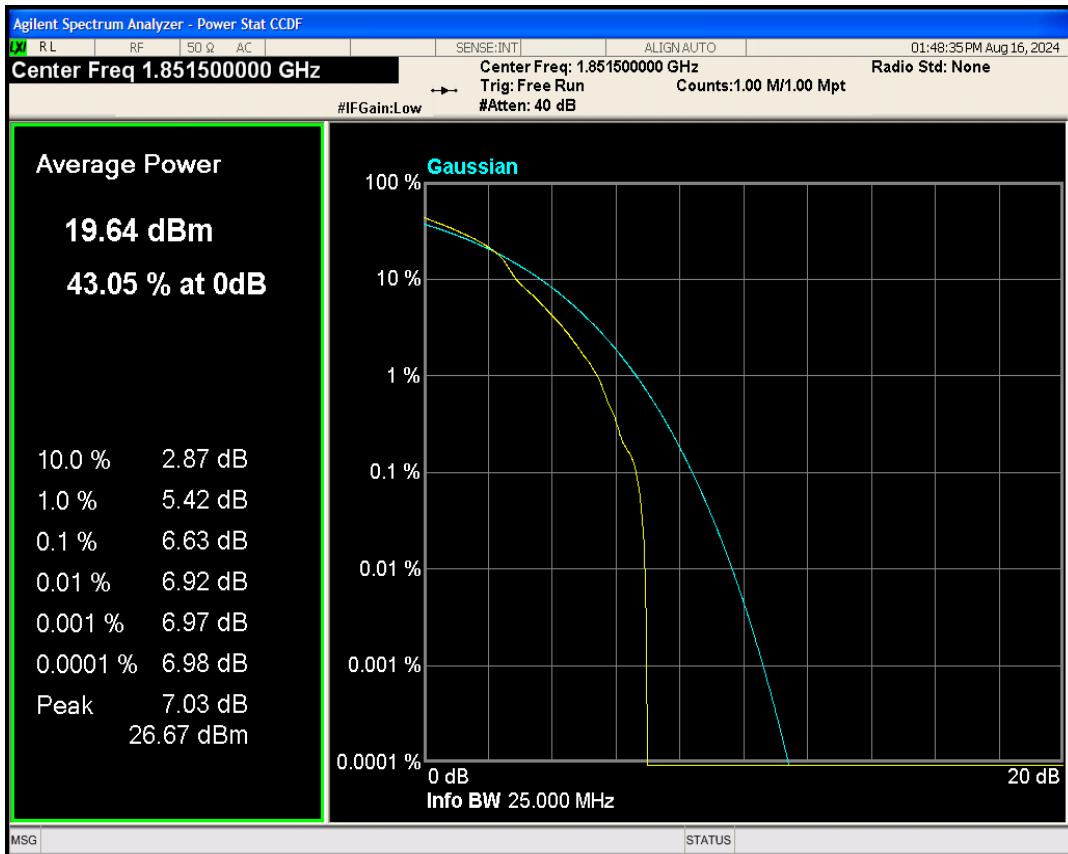
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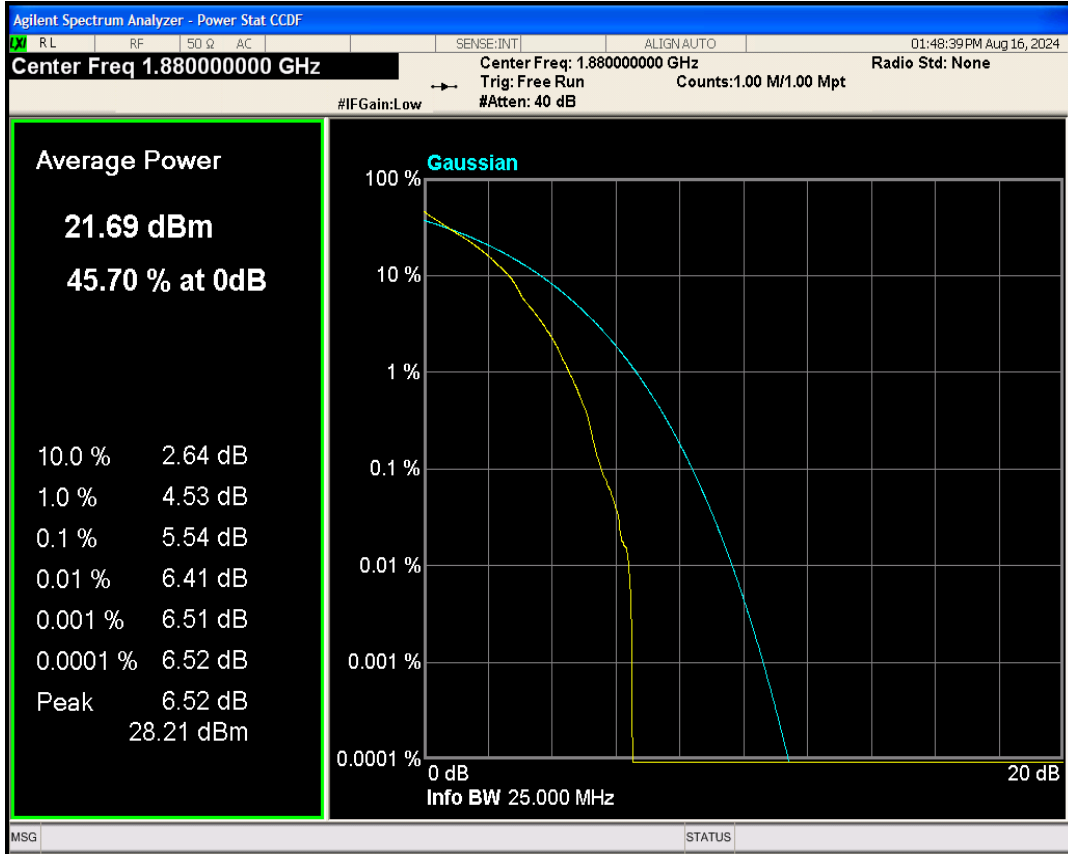
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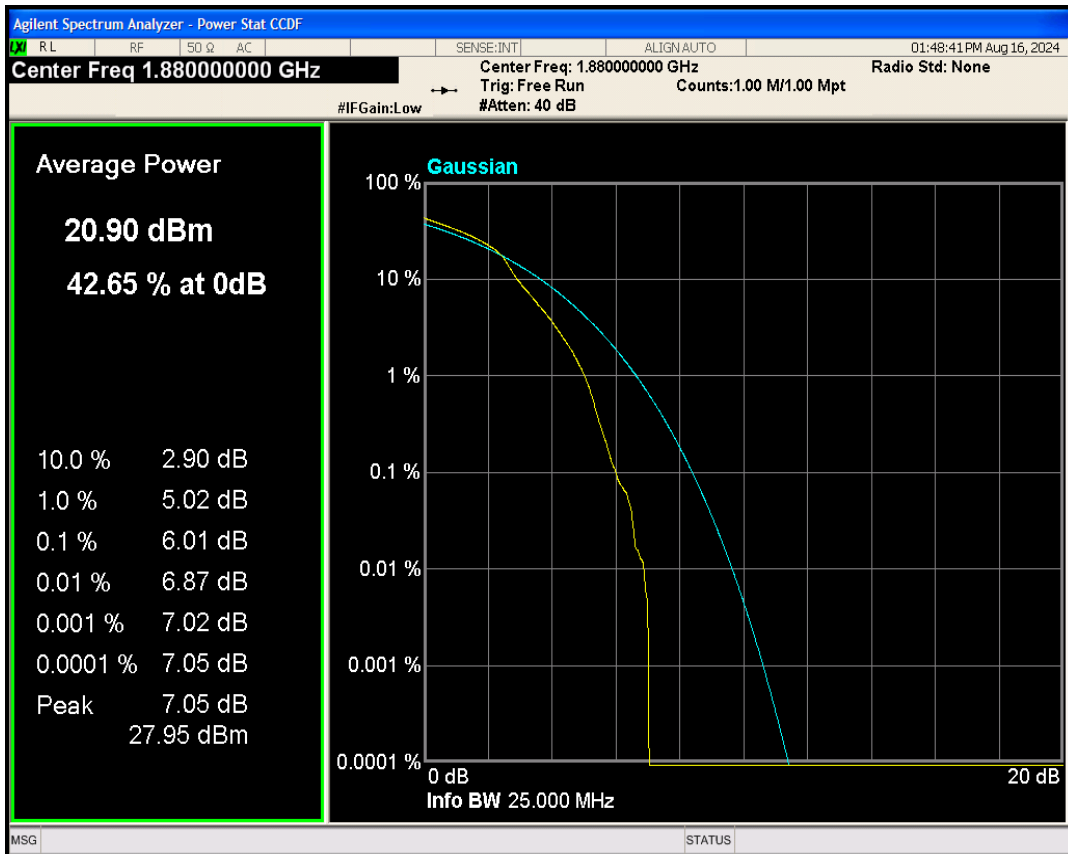
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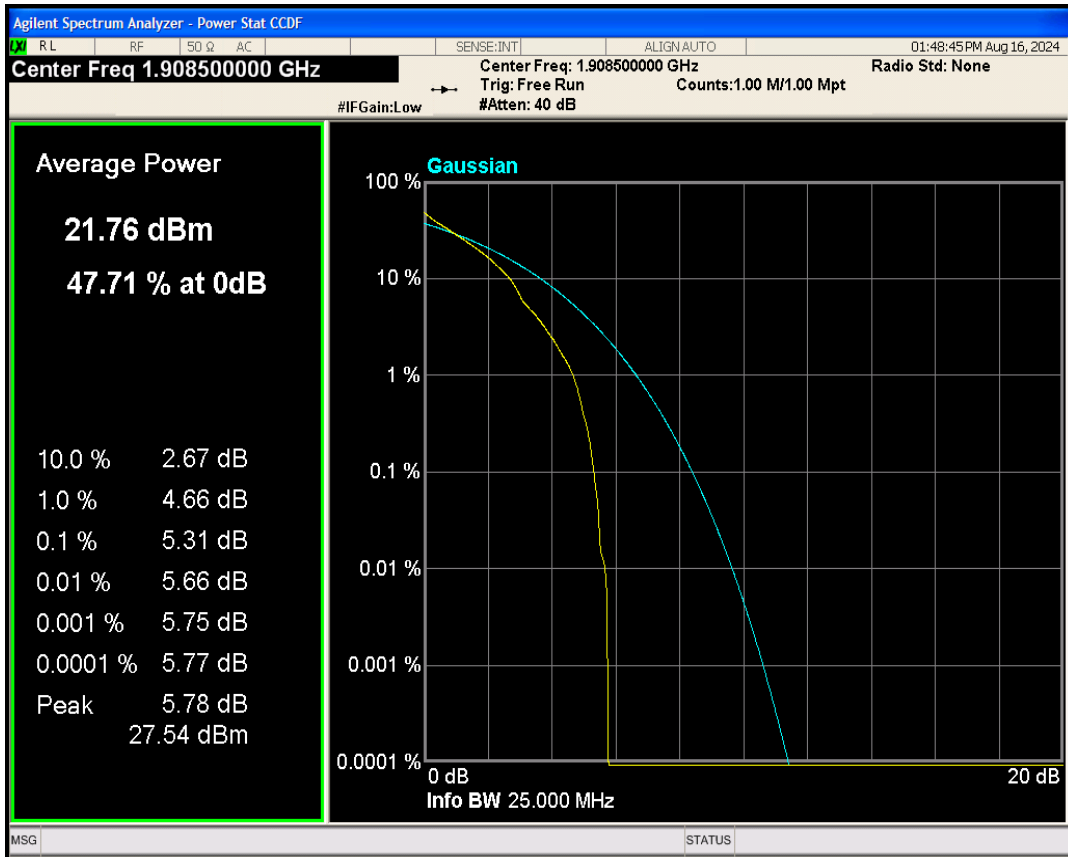
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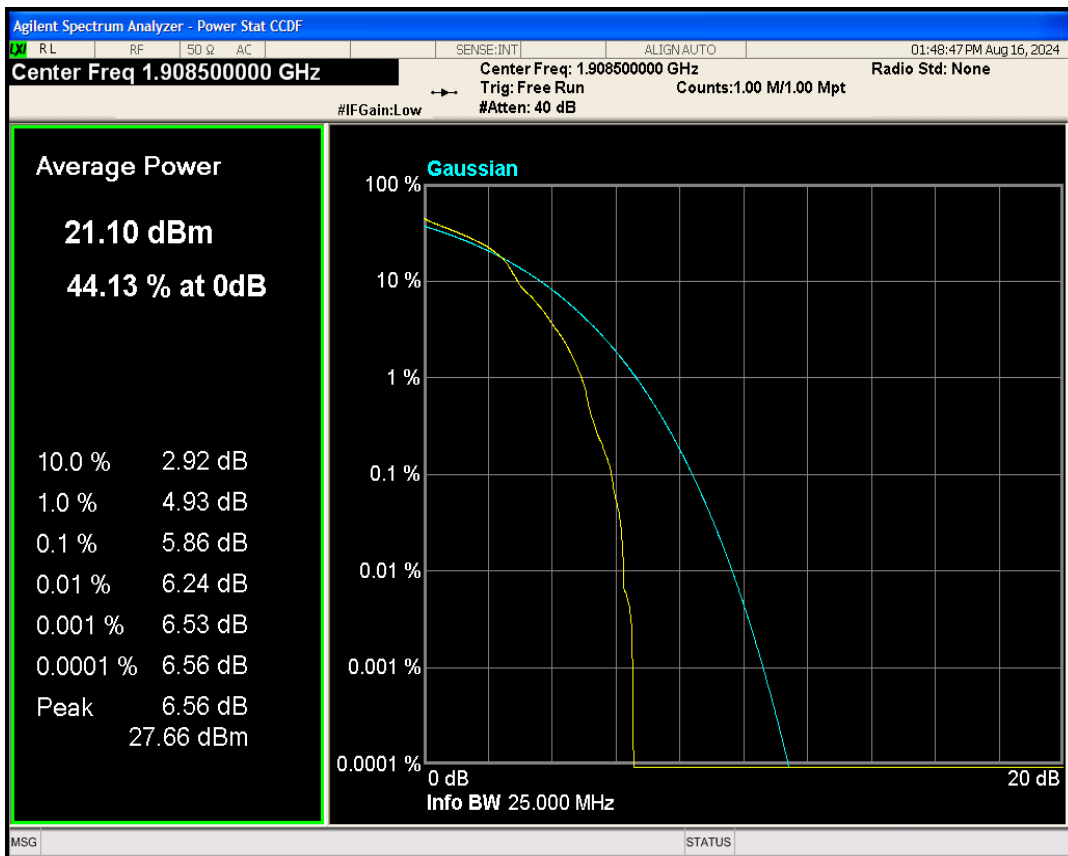
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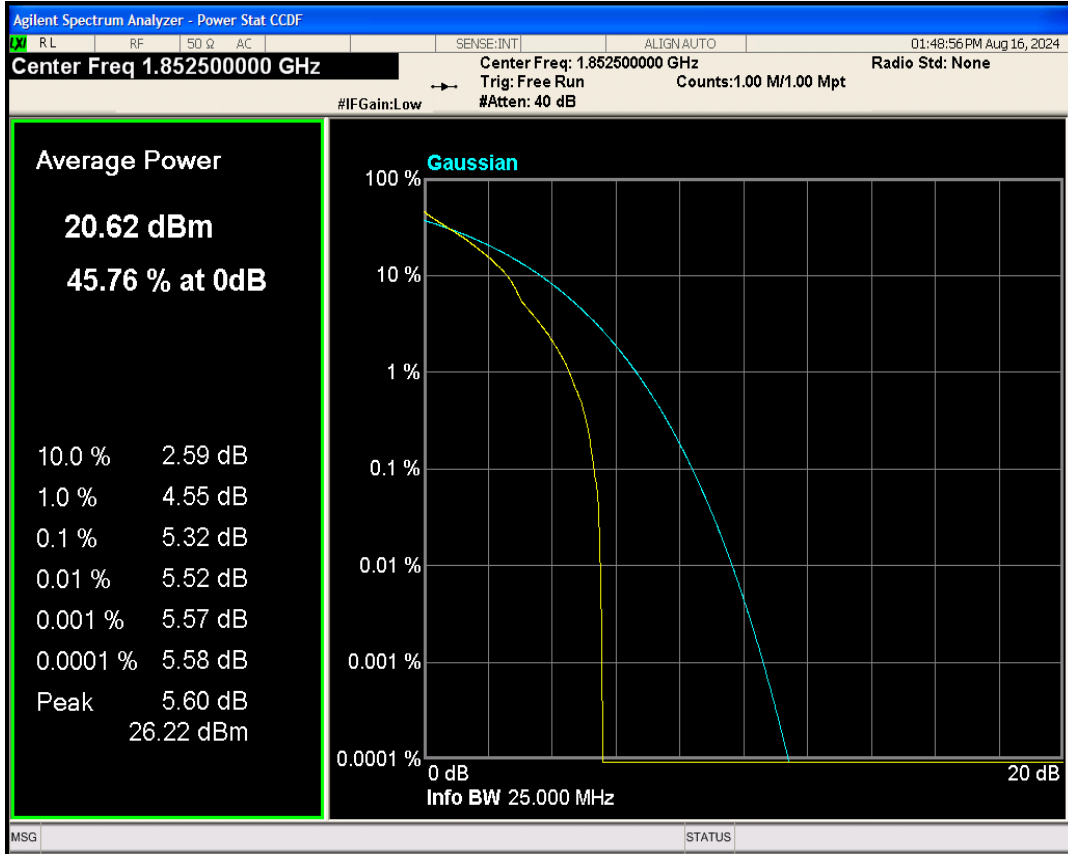
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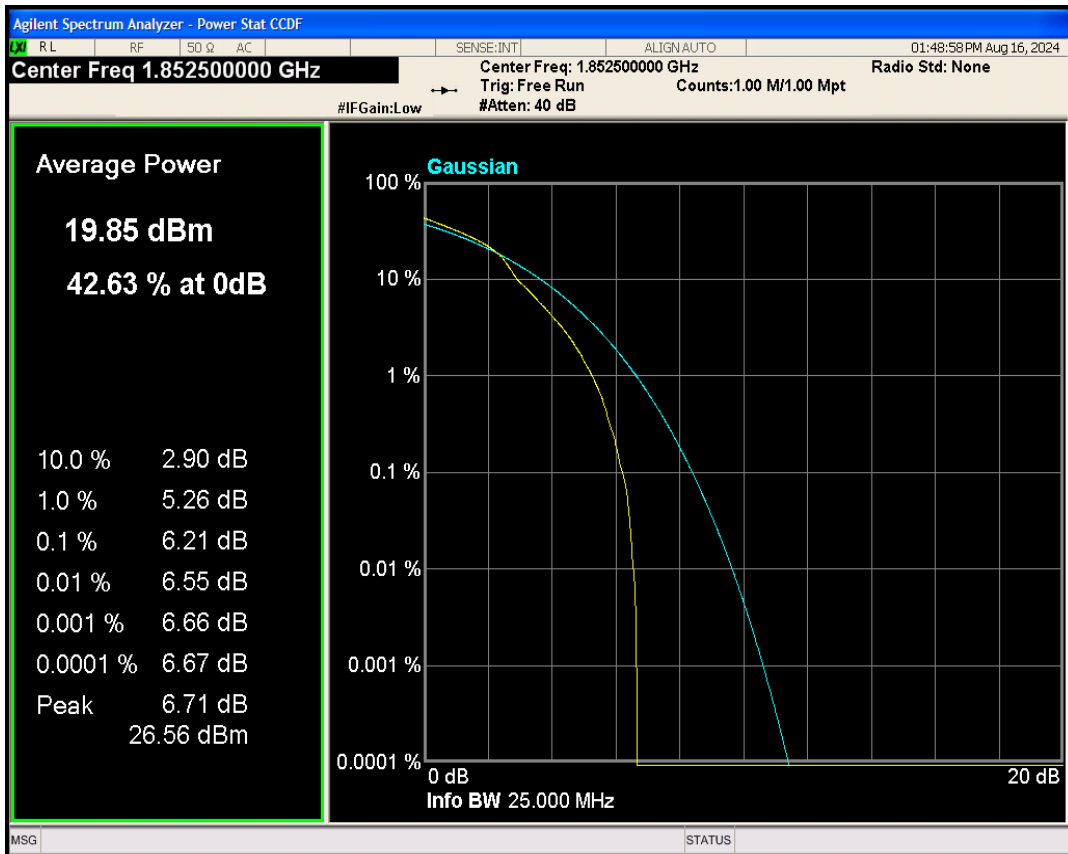
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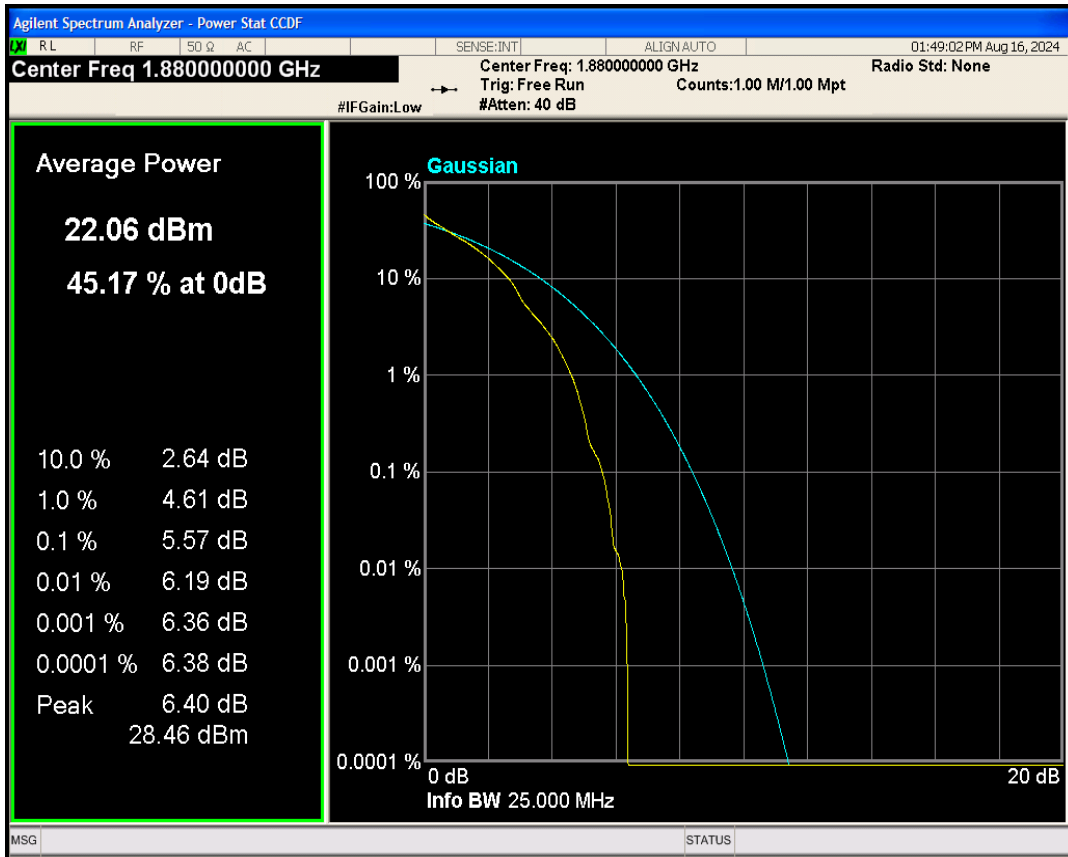
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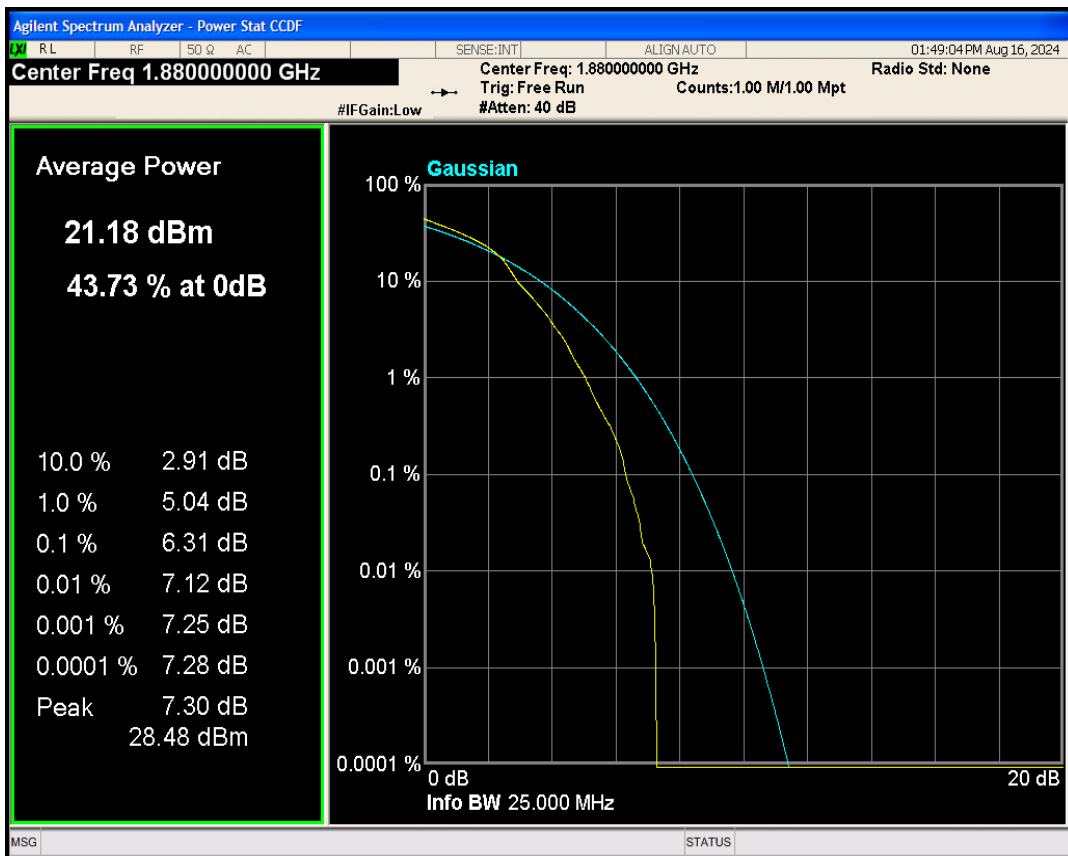
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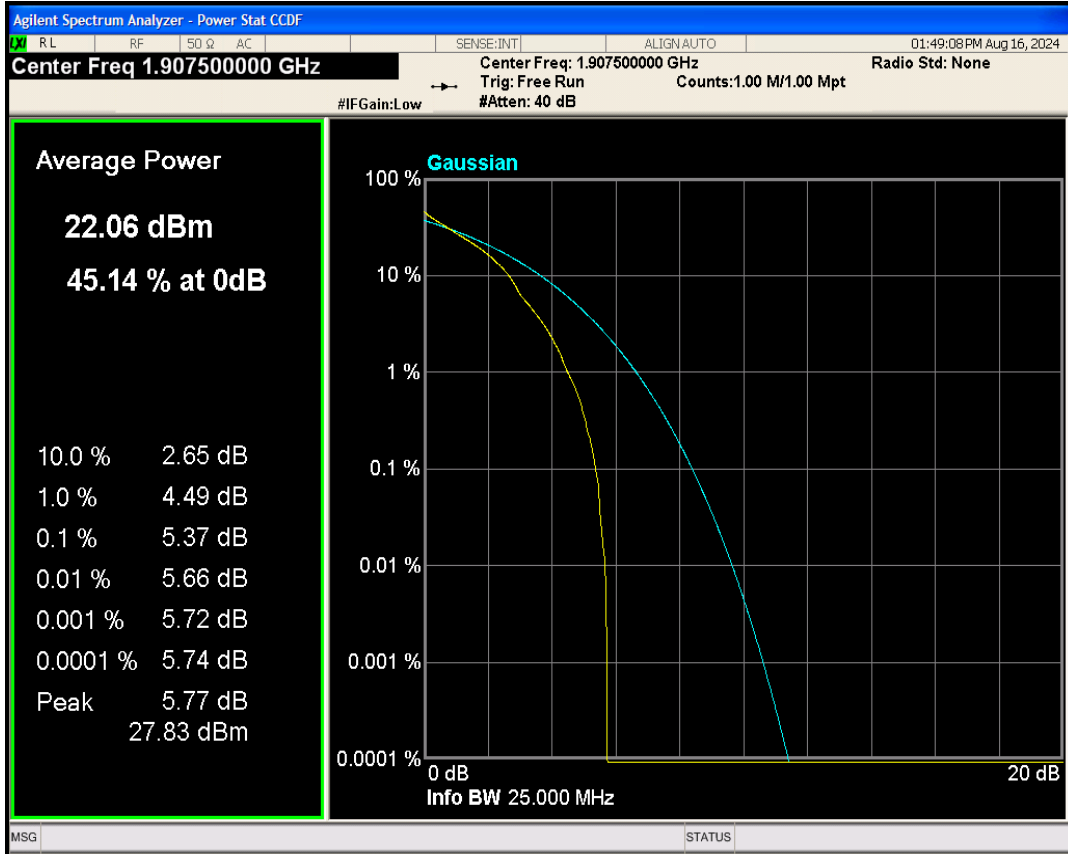
Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0



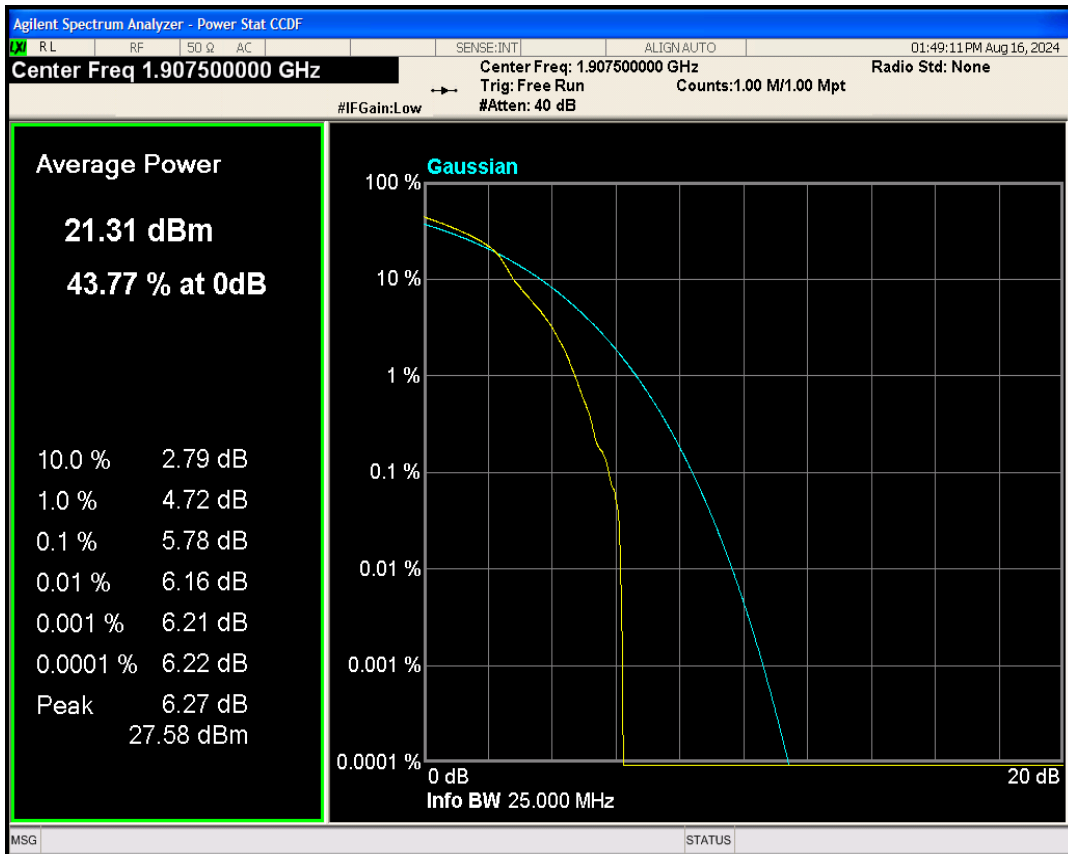
Band2 16QAM BW=5MHz Channel=18900 RB Size=1 Position=#0



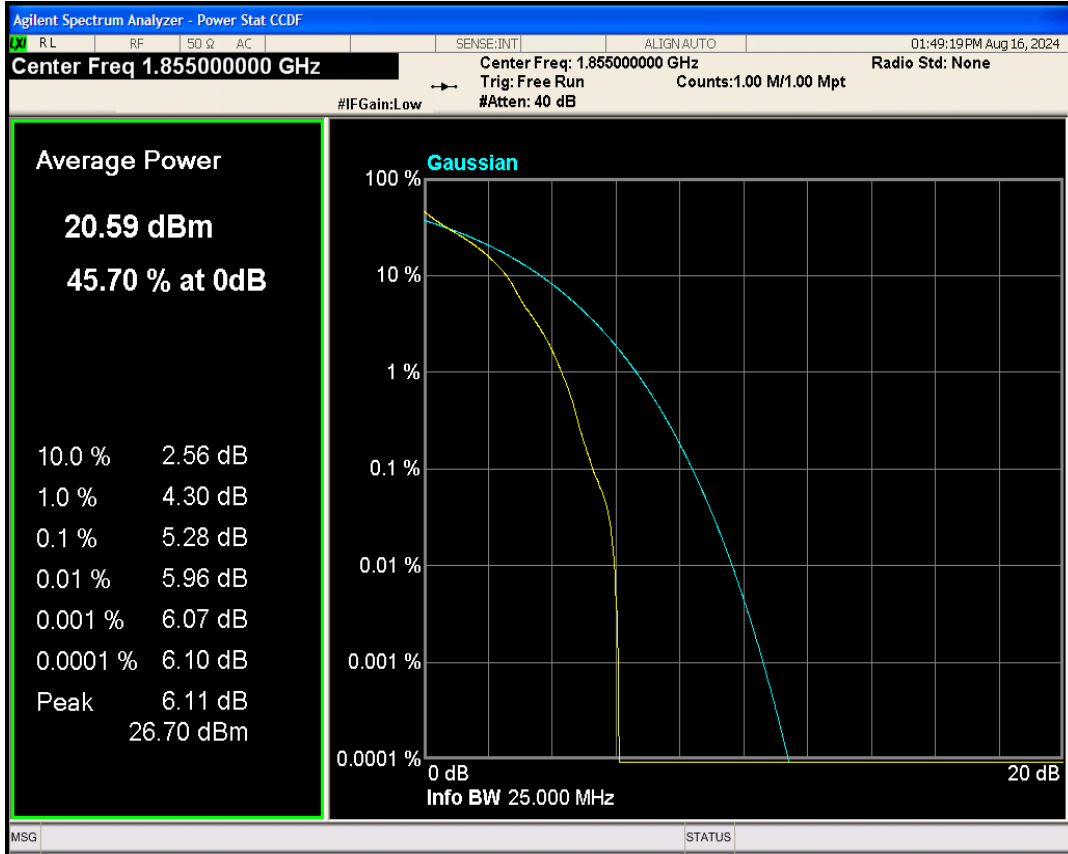
Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0



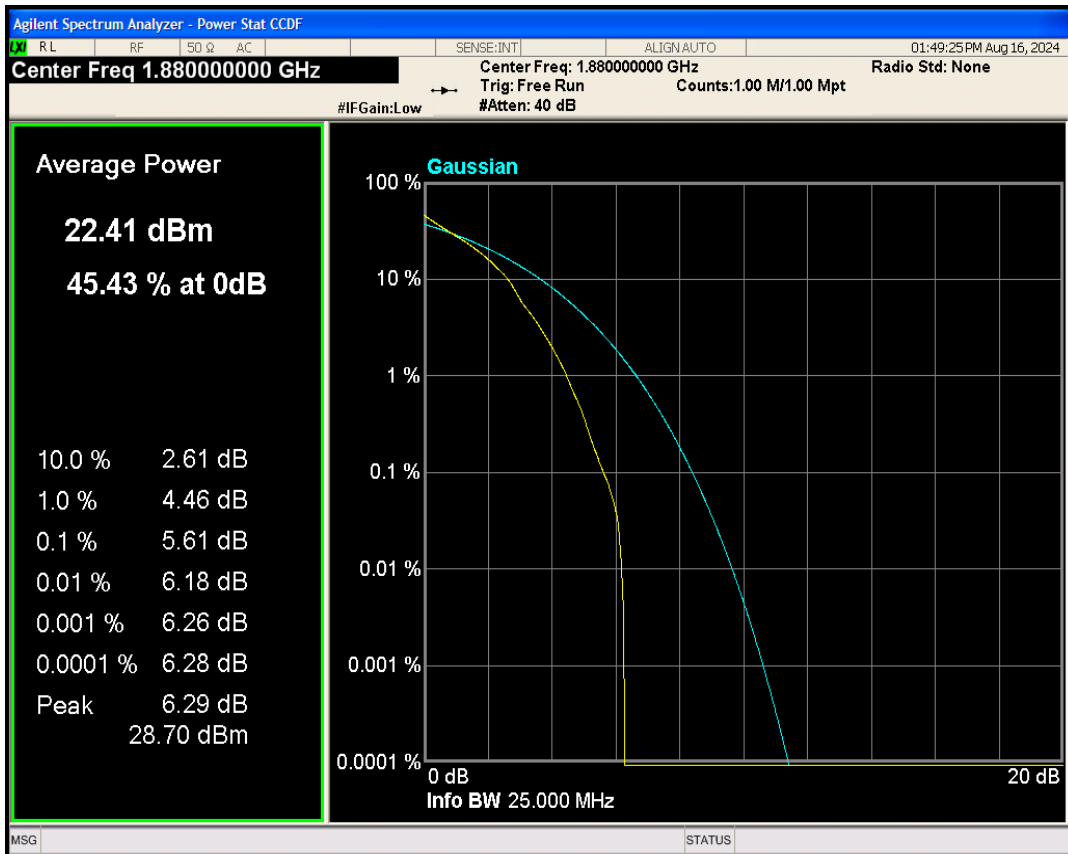
Band2 16QAM BW=5MHz Channel=19175 RB Size=1 Position=#0



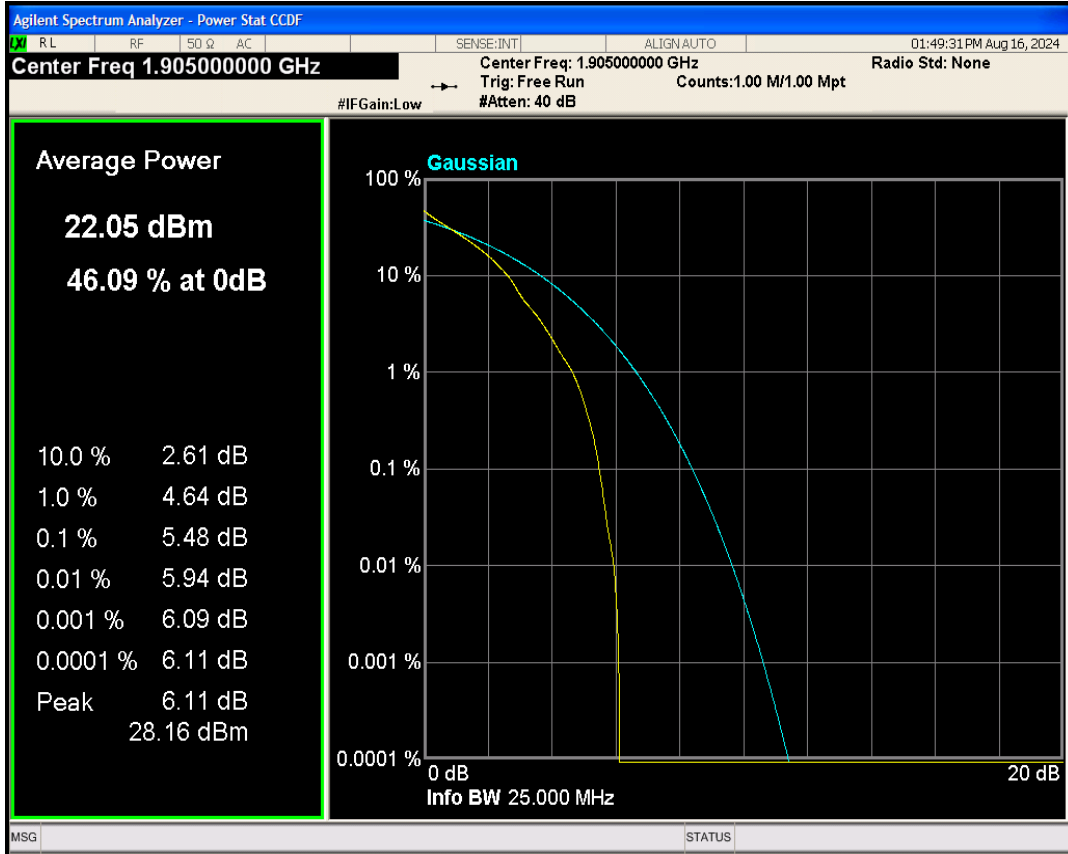
Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0



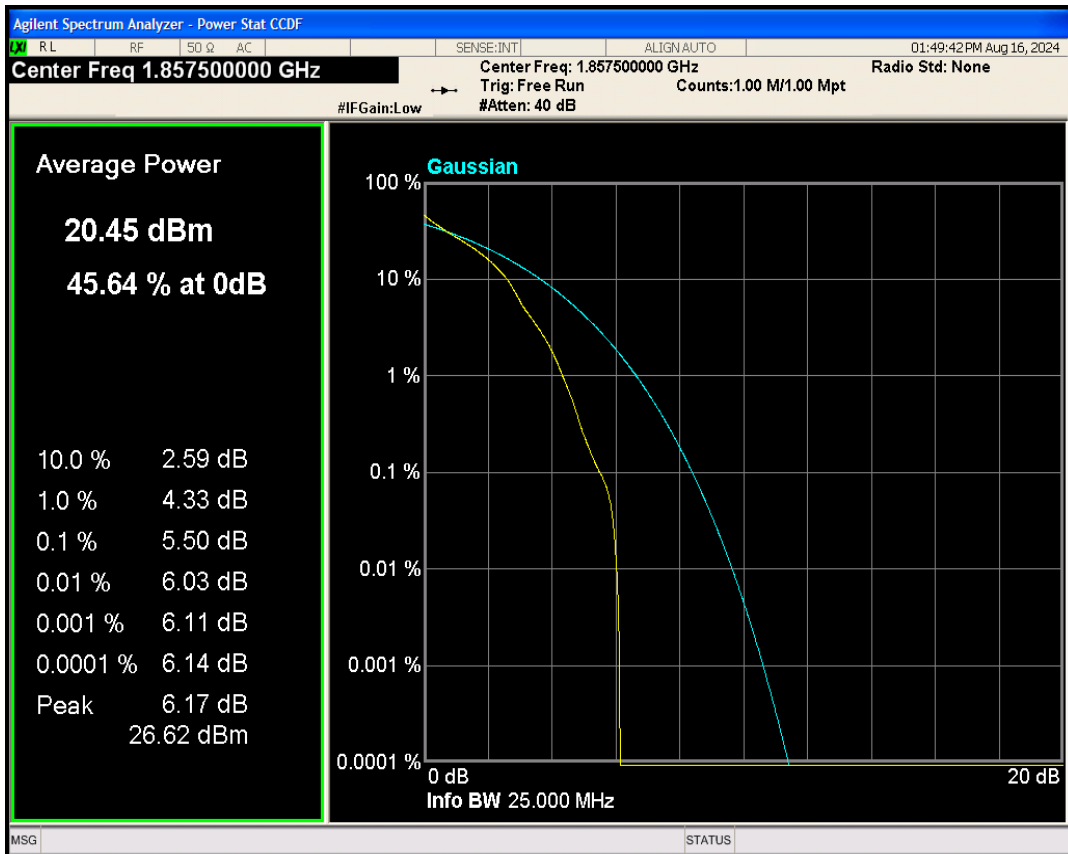
Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0



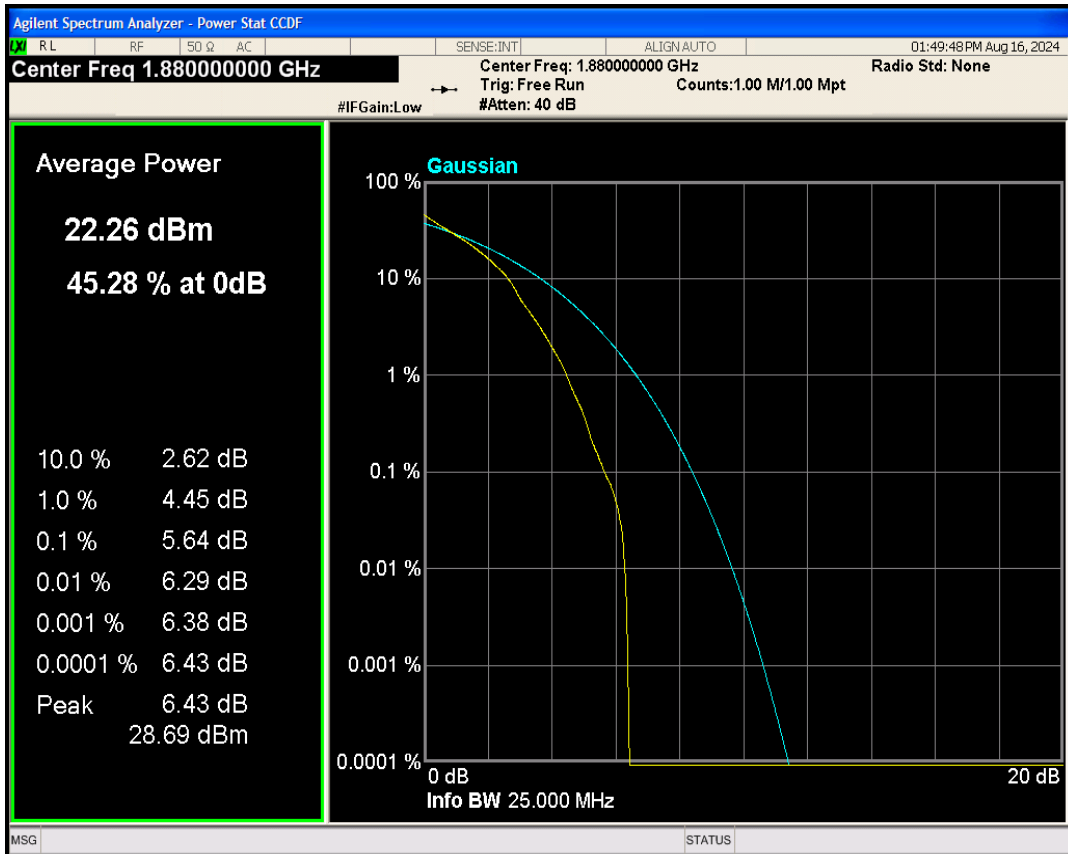
Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0



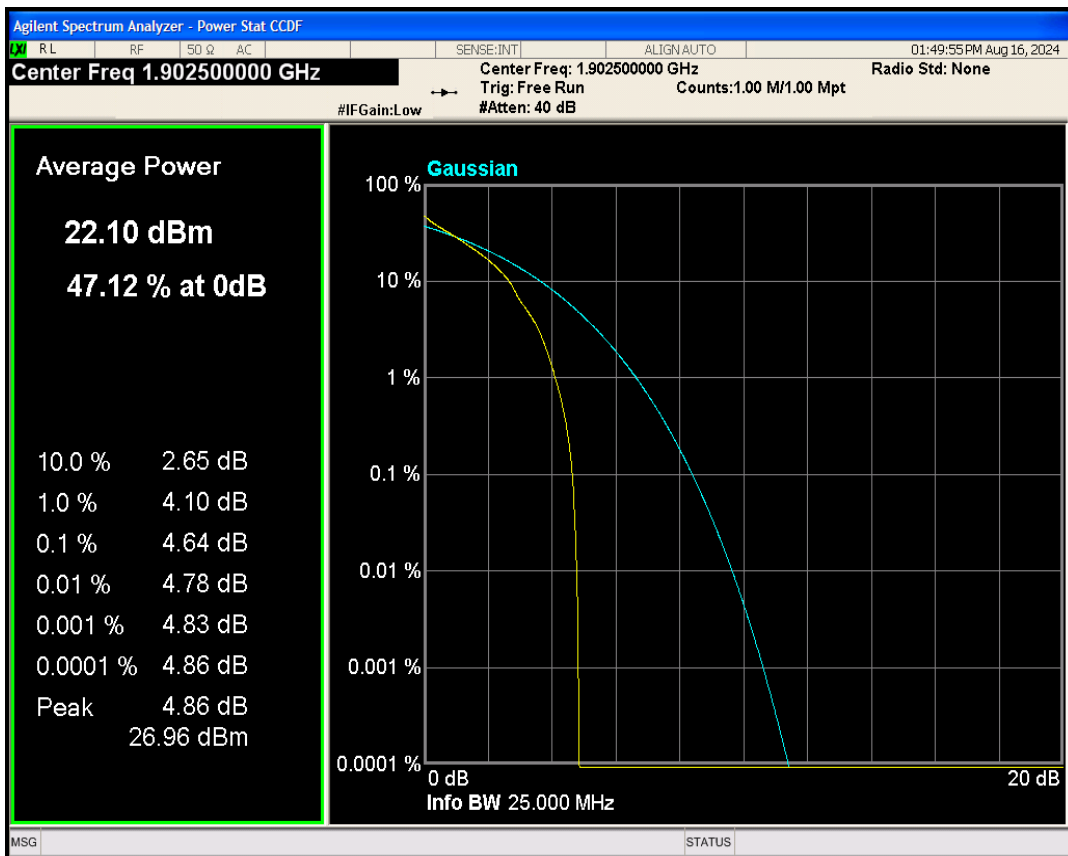
Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0



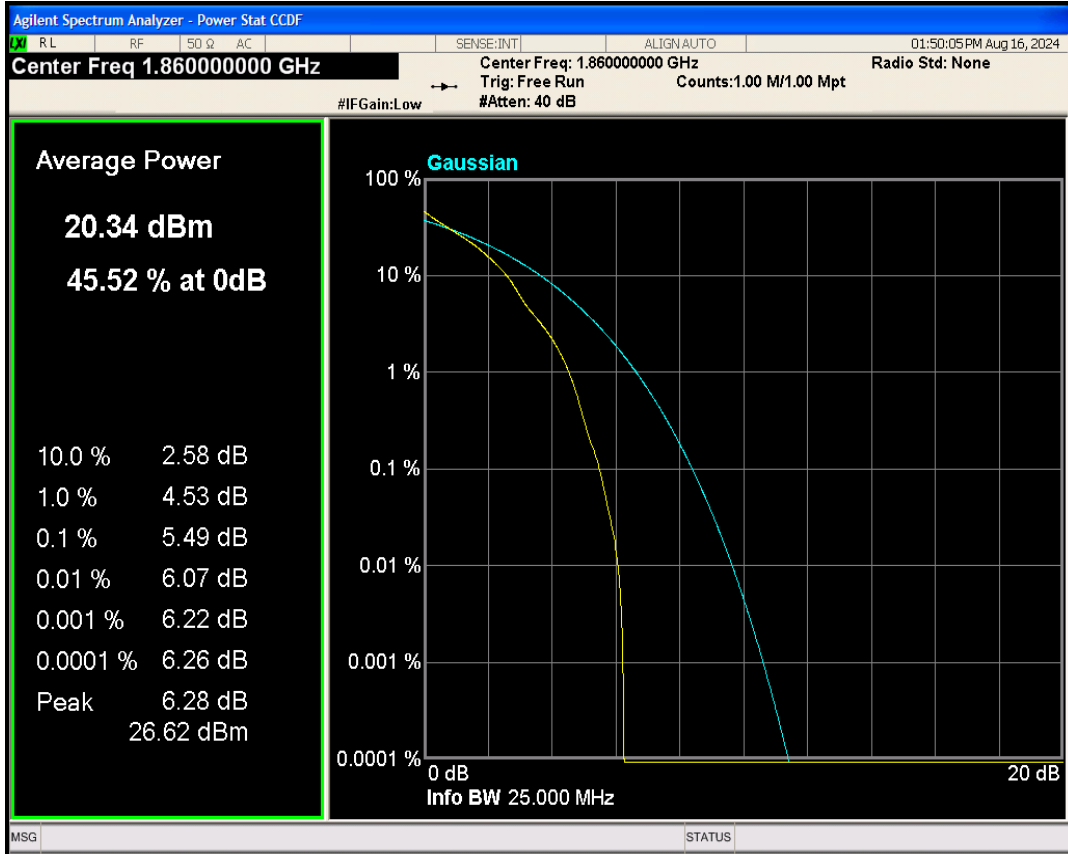
Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0



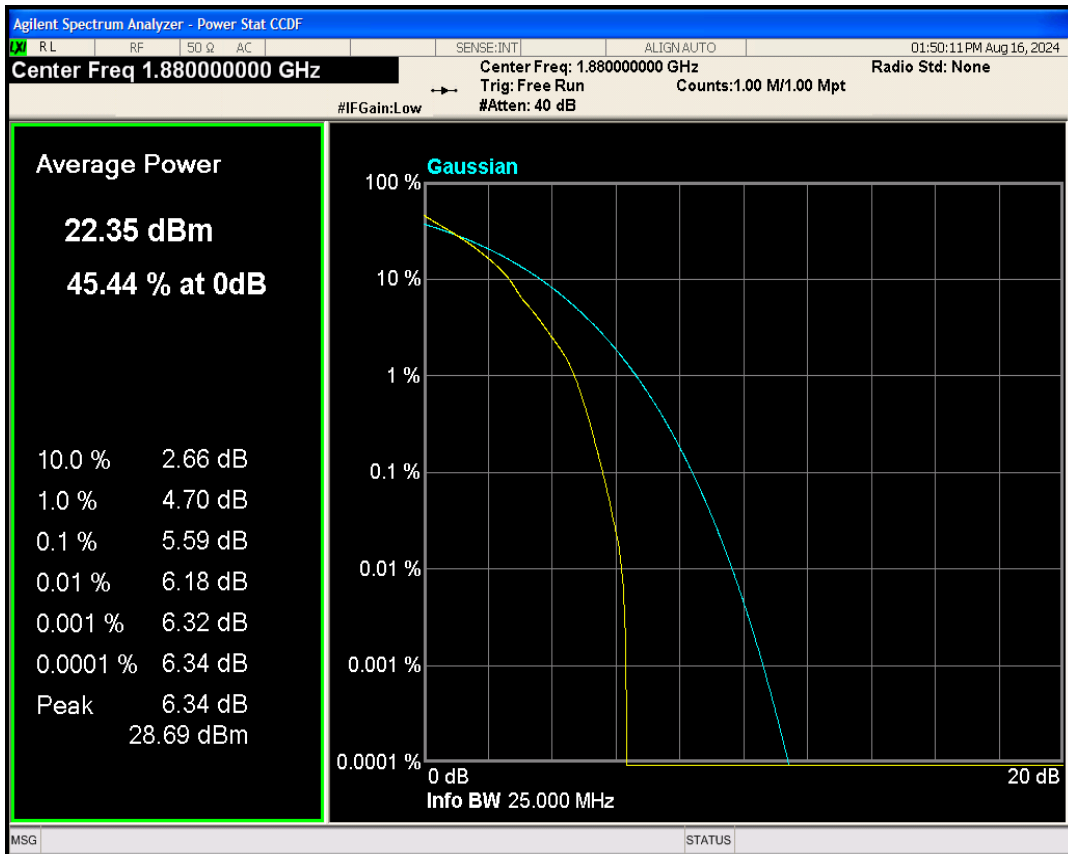
Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0



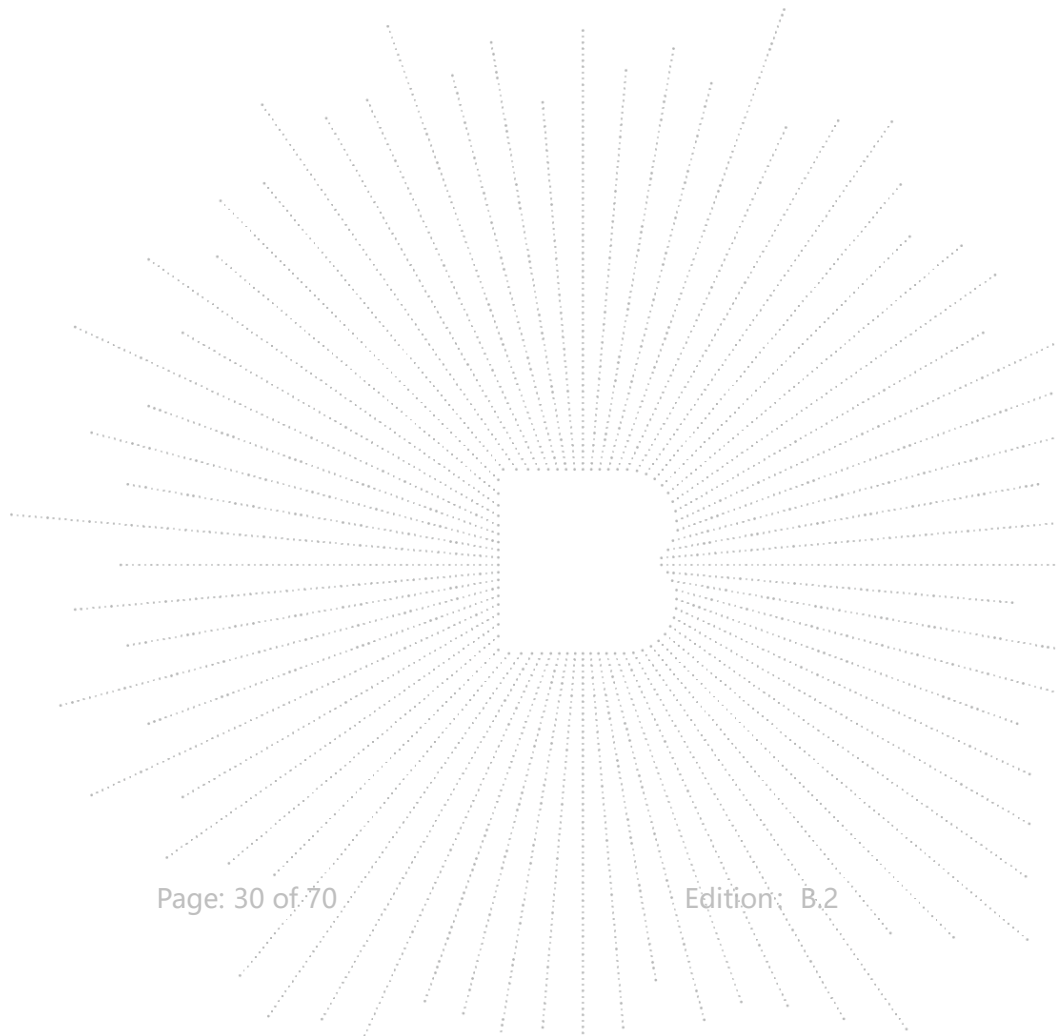
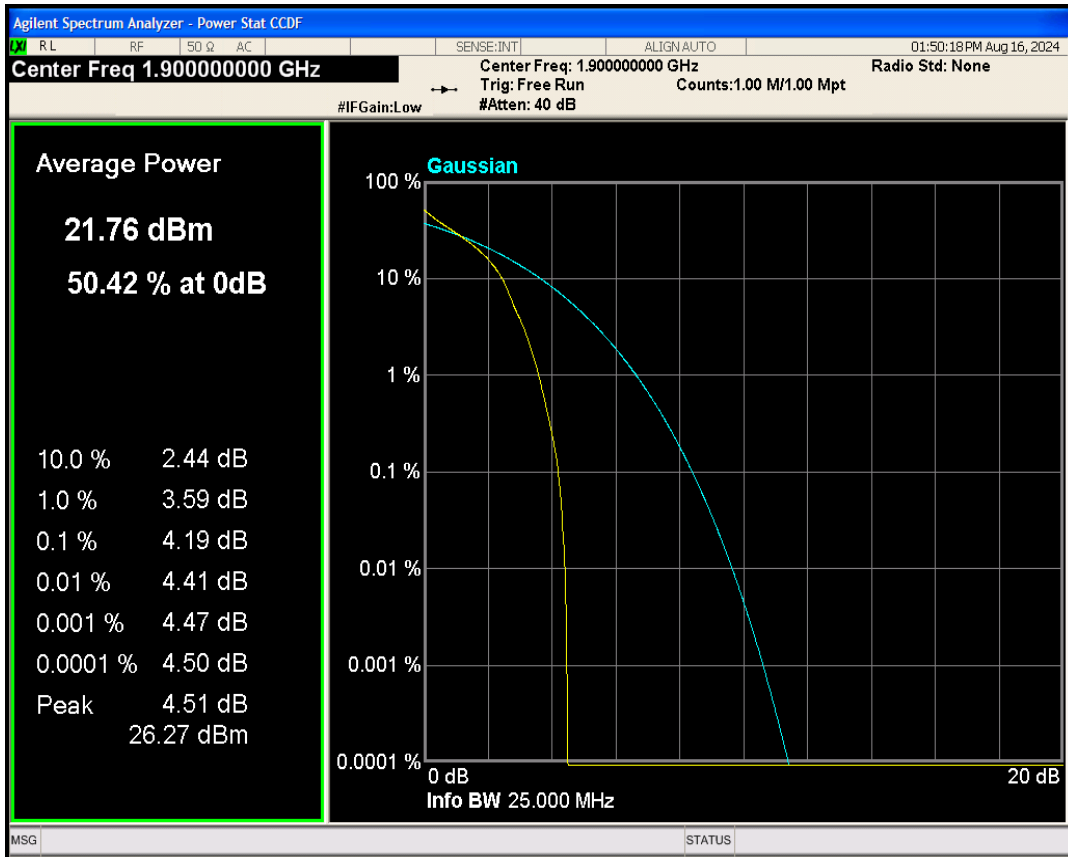
Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0



Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0



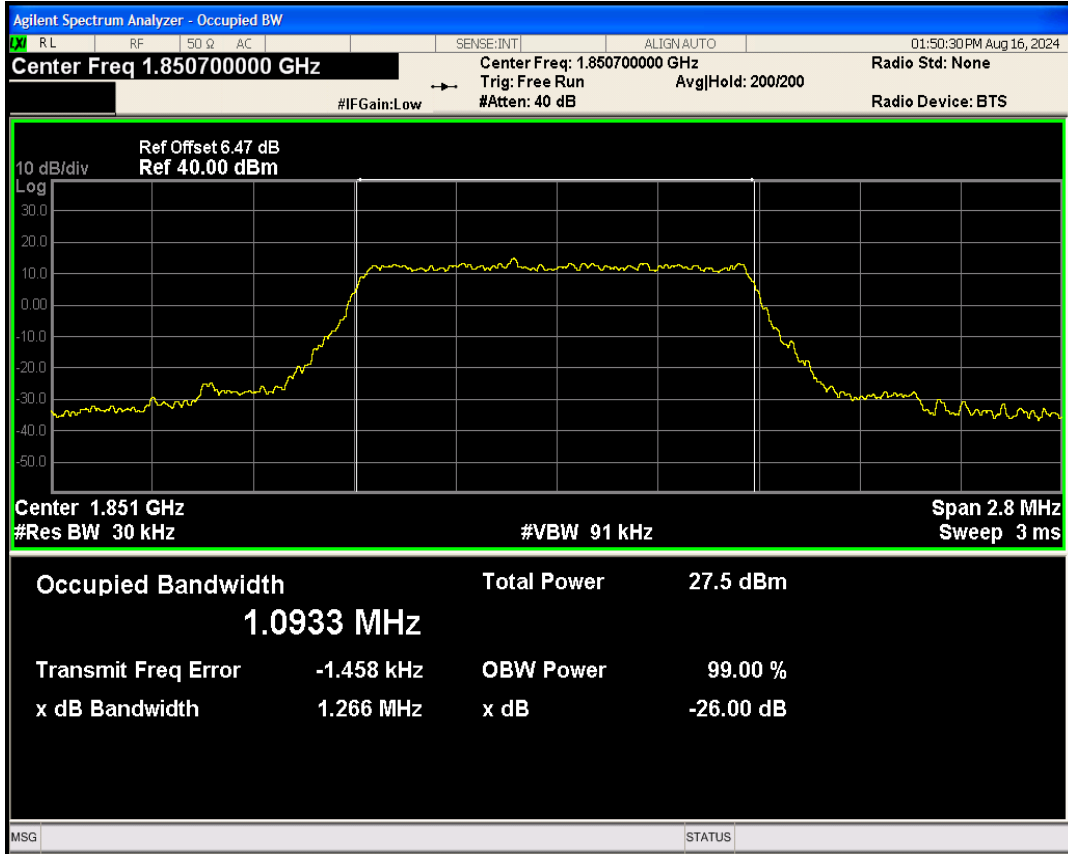
Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0



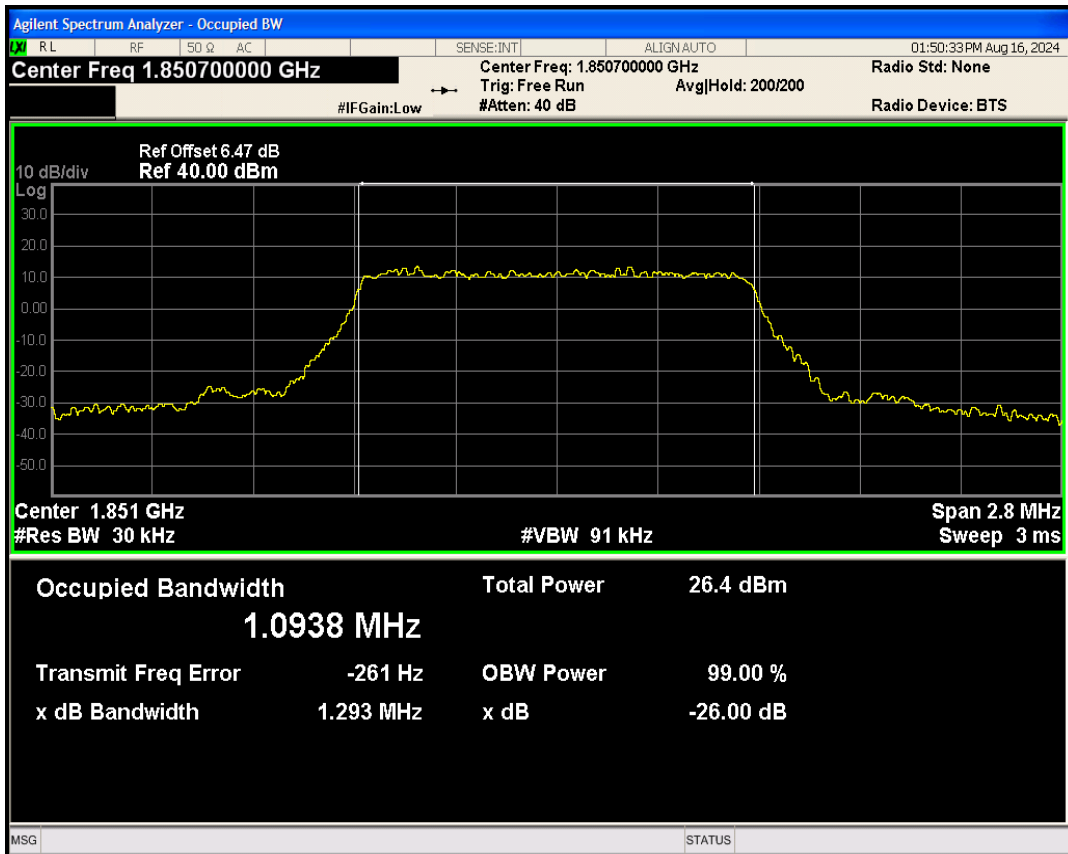
## Appendix 4. Occupied bandwidth

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | 99% OBW (MHz) | -26dB EBW (MHz) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|---------------|-----------------|---------|
| Band2 | 1.4             | 18607      | 6       | #0          | QPSK       | 1.093         | 1.266           | PASS    |
| Band2 | 1.4             | 18607      | 6       | #0          | 16QAM      | 1.094         | 1.293           | PASS    |
| Band2 | 1.4             | 18900      | 6       | #0          | QPSK       | 1.093         | 1.322           | PASS    |
| Band2 | 1.4             | 18900      | 6       | #0          | 16QAM      | 1.099         | 1.299           | PASS    |
| Band2 | 1.4             | 19193      | 6       | #0          | QPSK       | 1.091         | 1.285           | PASS    |
| Band2 | 1.4             | 19193      | 6       | #0          | 16QAM      | 1.093         | 1.306           | PASS    |
| Band2 | 3               | 18615      | 15      | #0          | QPSK       | 2.701         | 2.997           | PASS    |
| Band2 | 3               | 18615      | 15      | #0          | 16QAM      | 2.699         | 2.961           | PASS    |
| Band2 | 3               | 18900      | 15      | #0          | QPSK       | 2.693         | 2.985           | PASS    |
| Band2 | 3               | 18900      | 15      | #0          | 16QAM      | 2.701         | 2.946           | PASS    |
| Band2 | 3               | 19185      | 15      | #0          | QPSK       | 2.698         | 2.990           | PASS    |
| Band2 | 3               | 19185      | 15      | #0          | 16QAM      | 2.693         | 2.974           | PASS    |
| Band2 | 5               | 18625      | 25      | #0          | QPSK       | 4.525         | 5.078           | PASS    |
| Band2 | 5               | 18625      | 25      | #0          | 16QAM      | 4.529         | 5.075           | PASS    |
| Band2 | 5               | 18900      | 25      | #0          | QPSK       | 4.518         | 5.122           | PASS    |
| Band2 | 5               | 18900      | 25      | #0          | 16QAM      | 4.517         | 5.023           | PASS    |
| Band2 | 5               | 19175      | 25      | #0          | QPSK       | 4.515         | 5.142           | PASS    |
| Band2 | 5               | 19175      | 25      | #0          | 16QAM      | 4.510         | 5.054           | PASS    |
| Band2 | 10              | 18650      | 50      | #0          | QPSK       | 9.021         | 10.204          | PASS    |
| Band2 | 10              | 18900      | 50      | #0          | QPSK       | 9.008         | 10.093          | PASS    |
| Band2 | 10              | 19150      | 50      | #0          | QPSK       | 8.953         | 9.942           | PASS    |
| Band2 | 15              | 18675      | 75      | #0          | QPSK       | 13.495        | 15.097          | PASS    |
| Band2 | 15              | 18900      | 75      | #0          | QPSK       | 13.502        | 15.369          | PASS    |
| Band2 | 15              | 19125      | 75      | #0          | QPSK       | 13.419        | 15.180          | PASS    |
| Band2 | 20              | 18700      | 100     | #0          | QPSK       | 17.957        | 19.431          | PASS    |
| Band2 | 20              | 18900      | 100     | #0          | QPSK       | 18.011        | 19.889          | PASS    |
| Band2 | 20              | 19100      | 100     | #0          | QPSK       | 17.969        | 19.734          | PASS    |

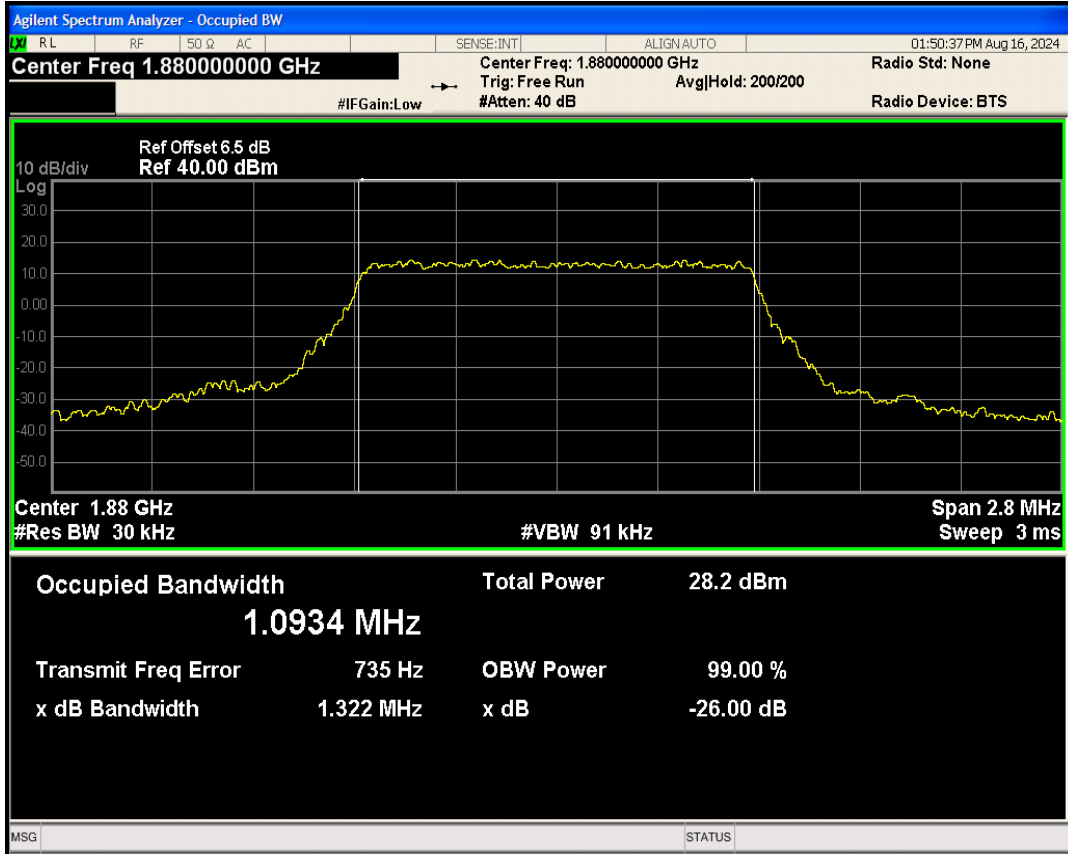
Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0



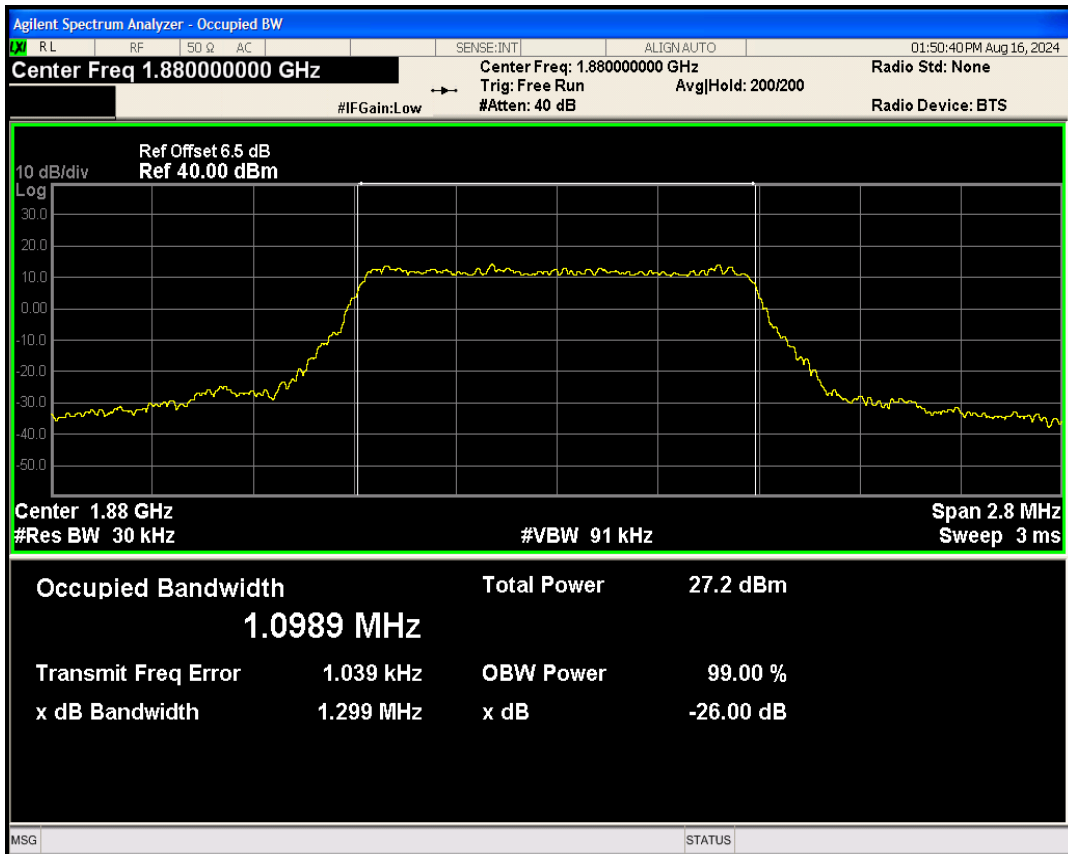
Band2 16QAM BW=1.4MHz Channel=18607 RB Size=6 Position=#0



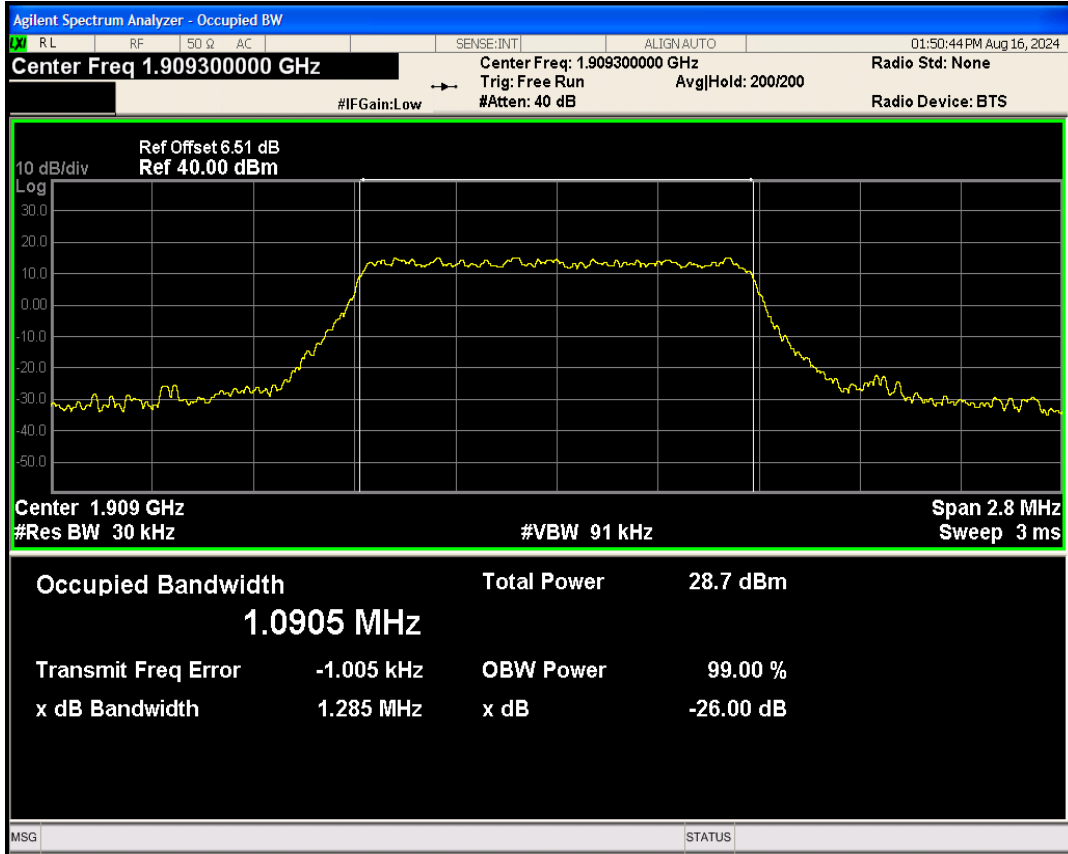
Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0



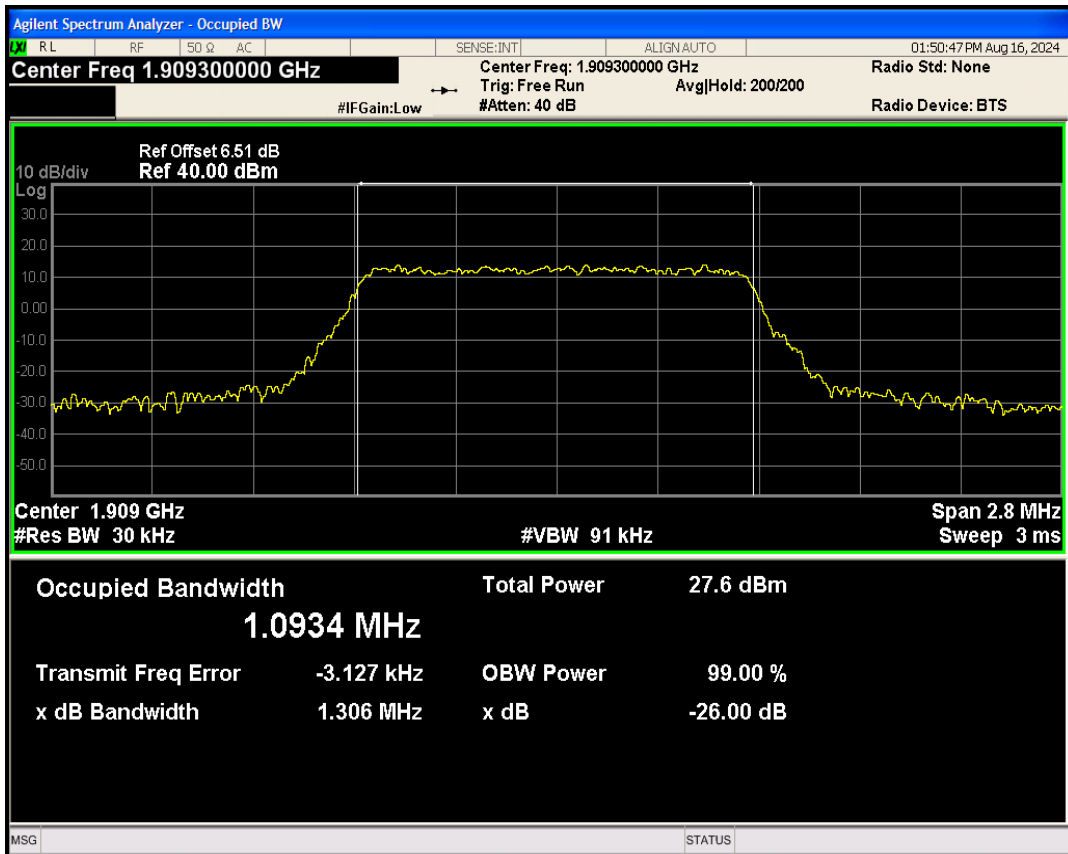
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=6 Position=#0



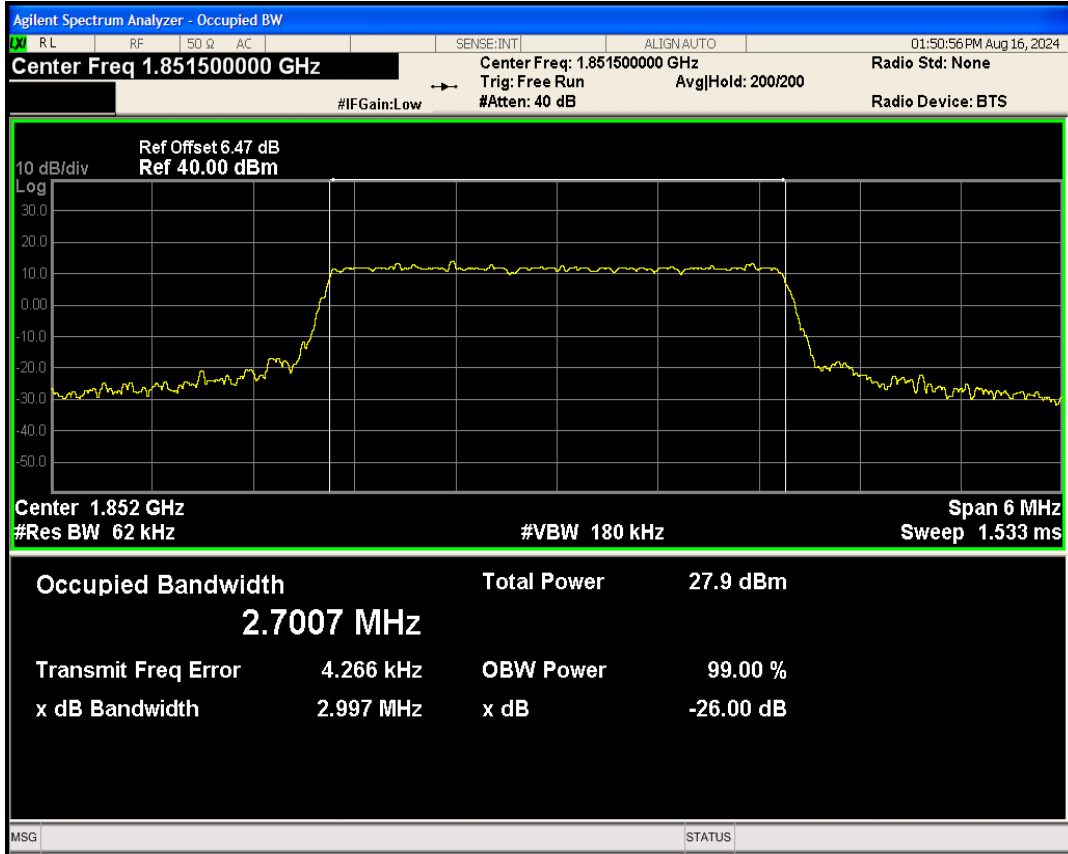
Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0



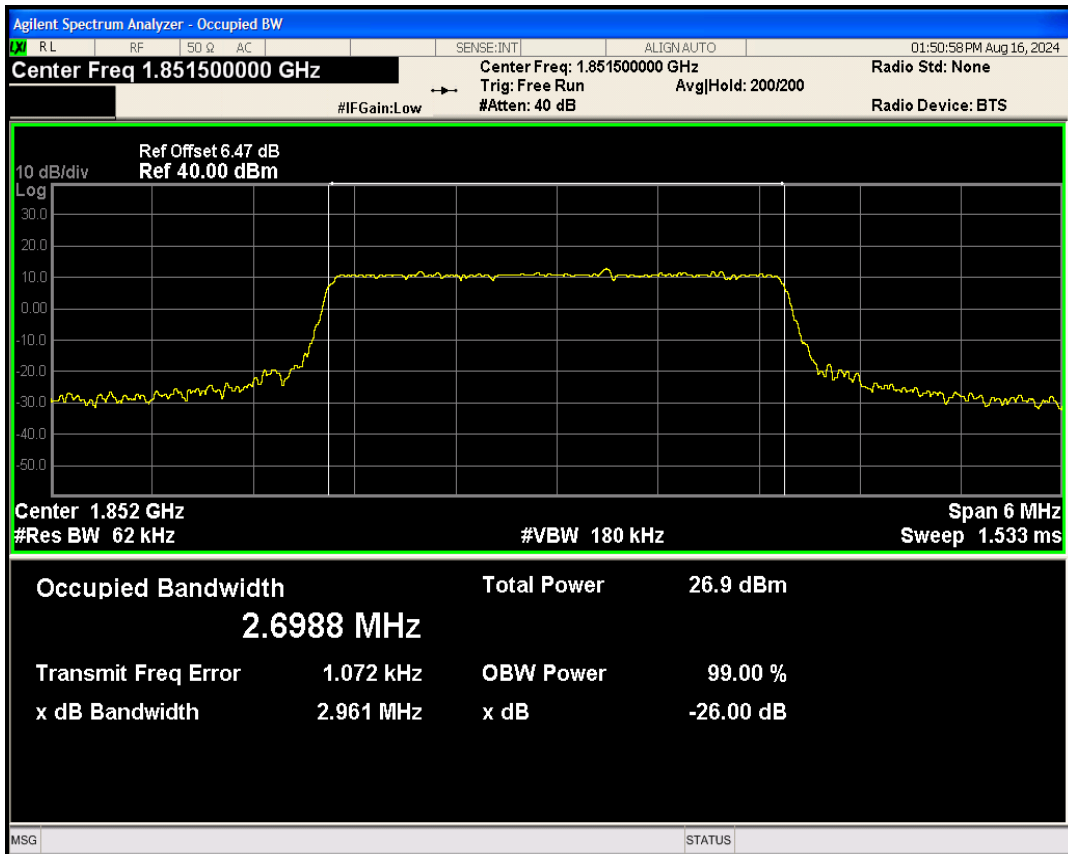
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=6 Position=#0



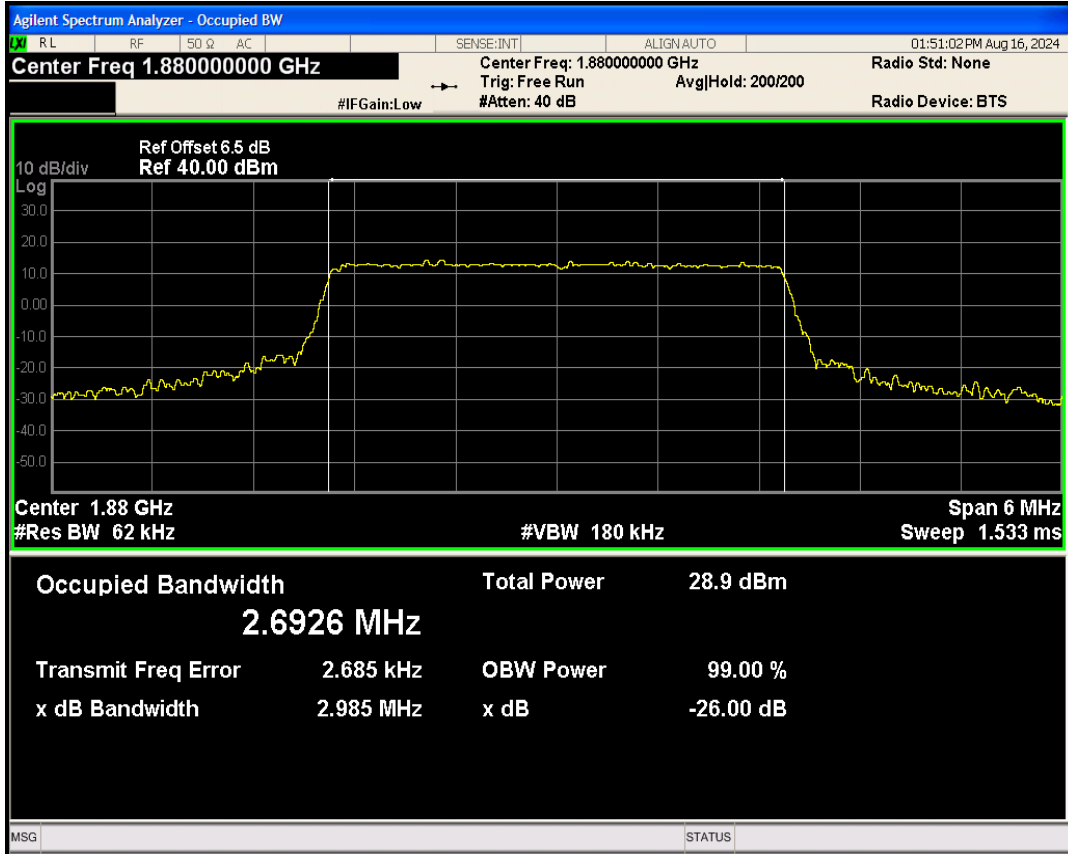
Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0



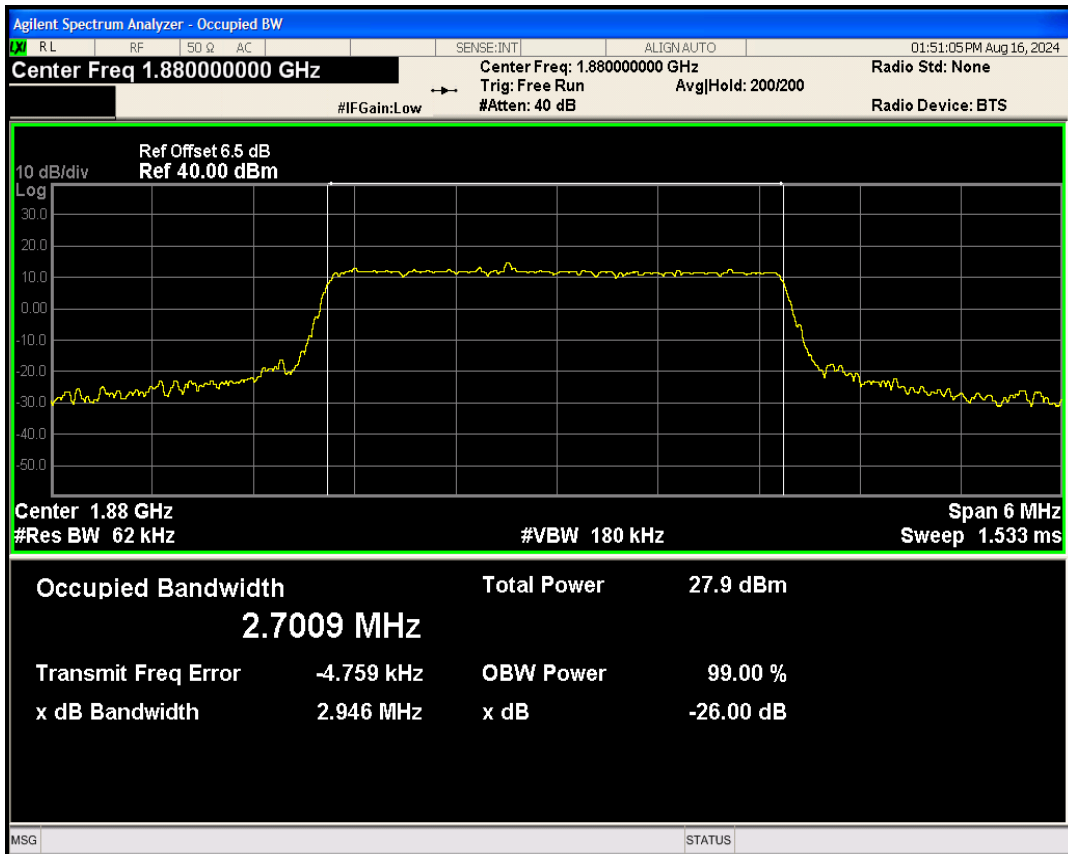
Band2 16QAM BW=3MHz Channel=18615 RB Size=15 Position=#0



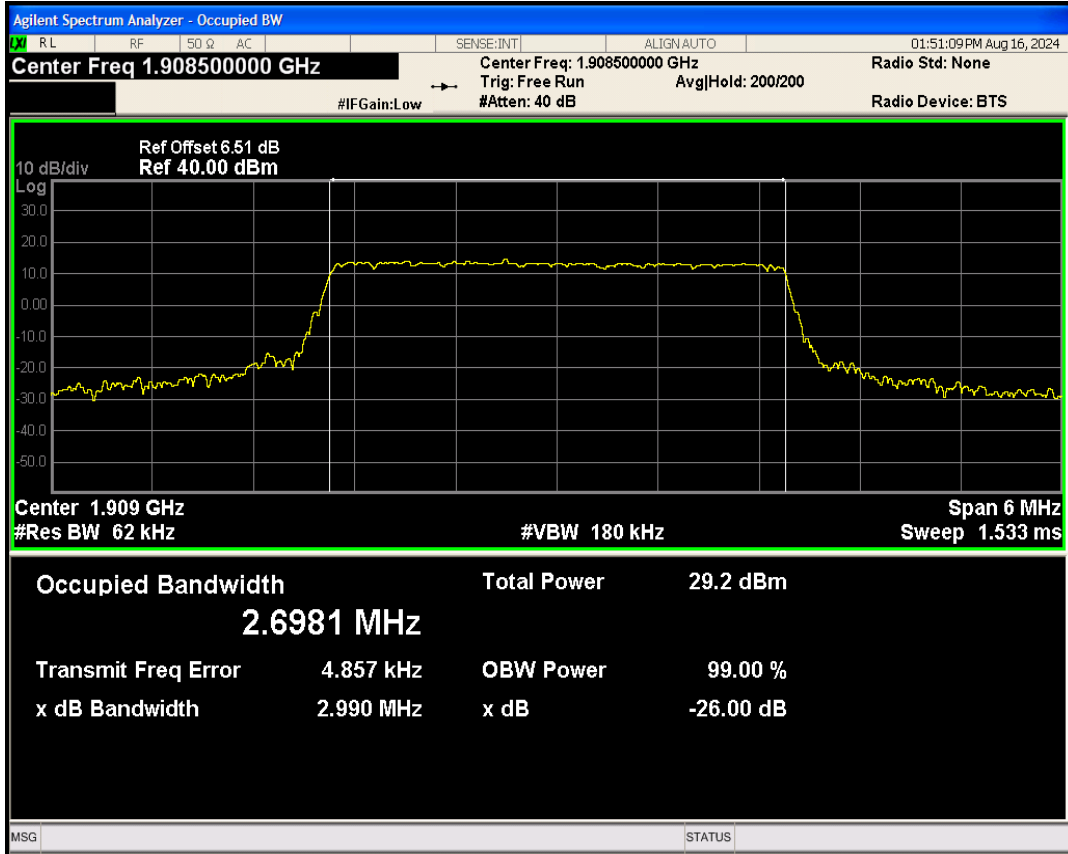
Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0



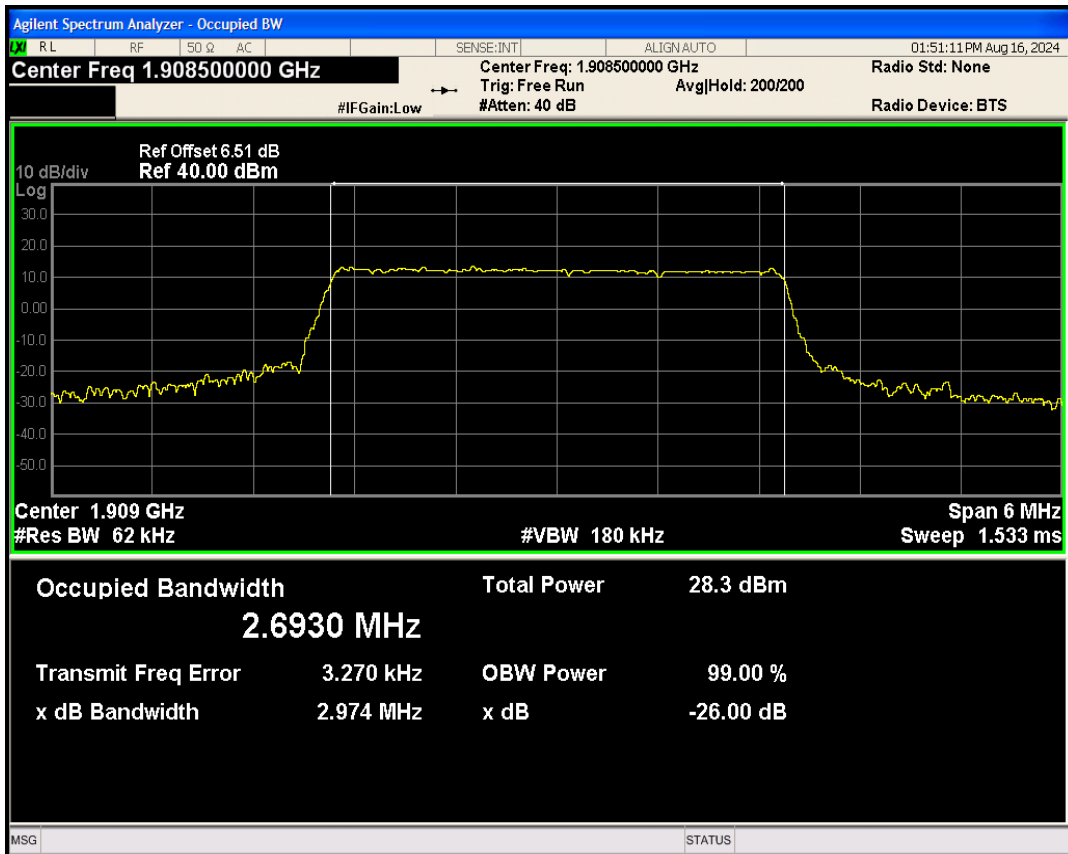
Band2 16QAM BW=3MHz Channel=18900 RB Size=15 Position=#0



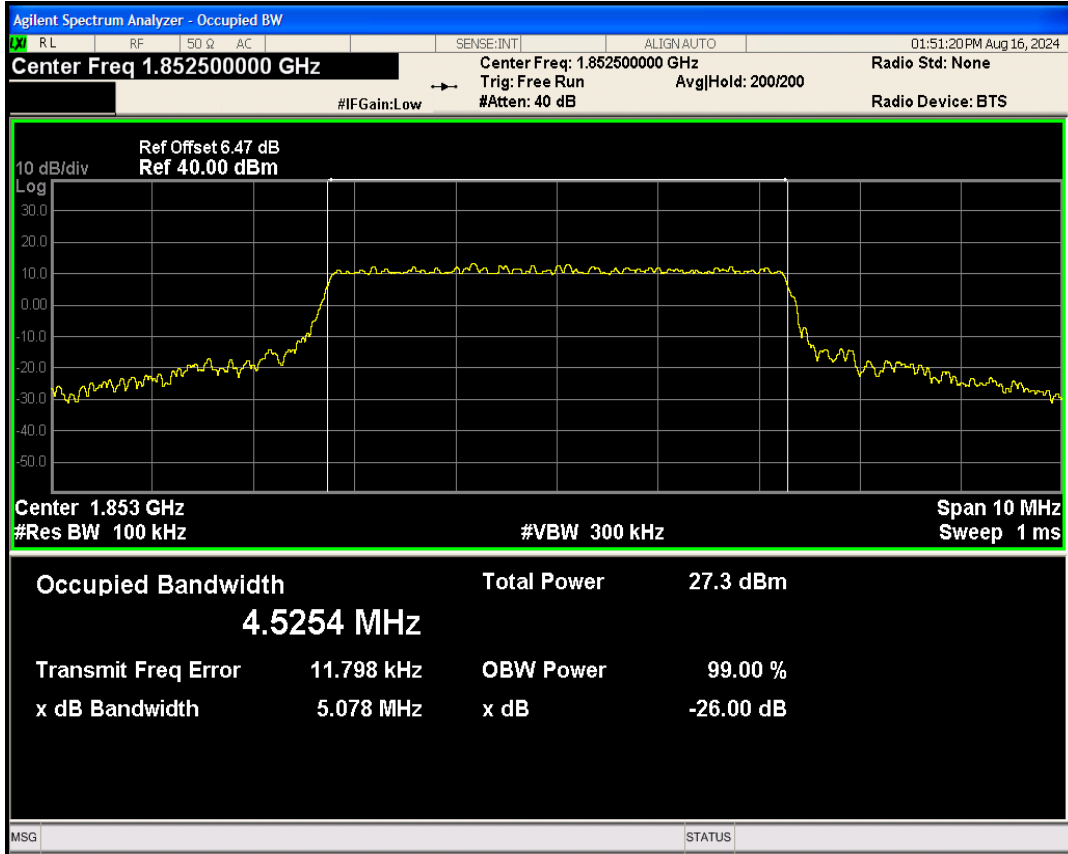
Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0



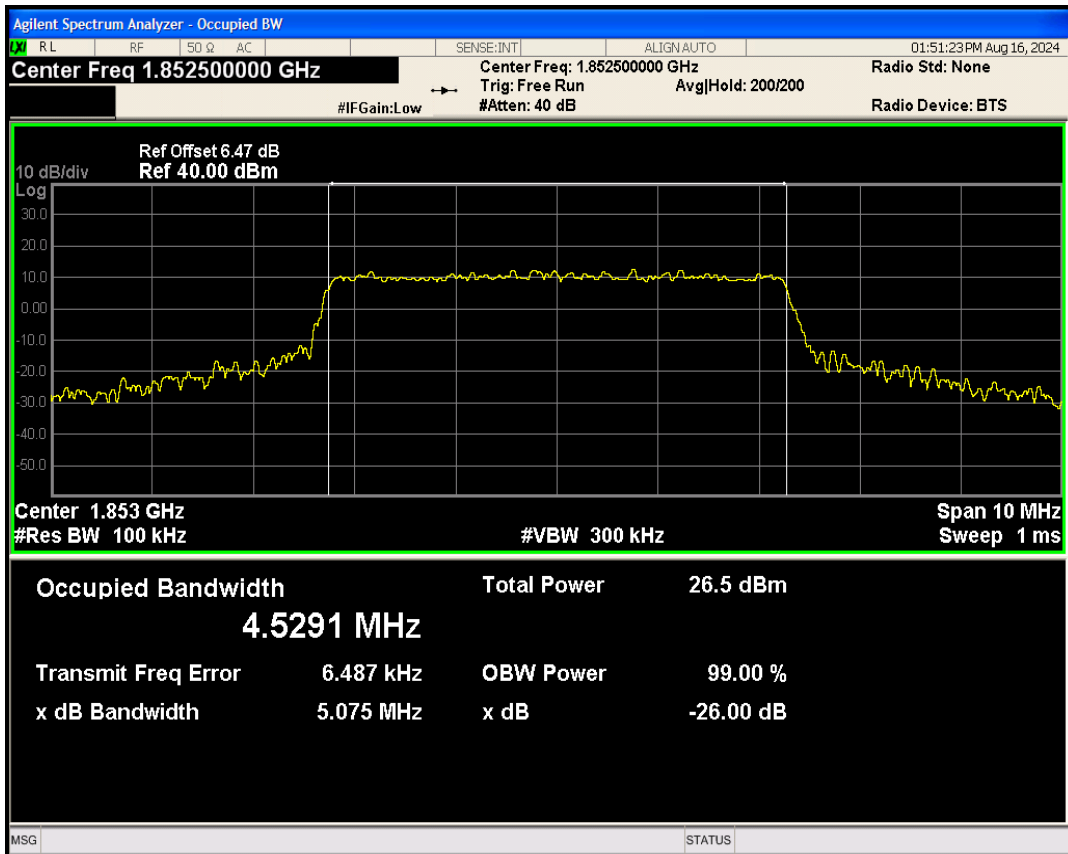
Band2 16QAM BW=3MHz Channel=19185 RB Size=15 Position=#0



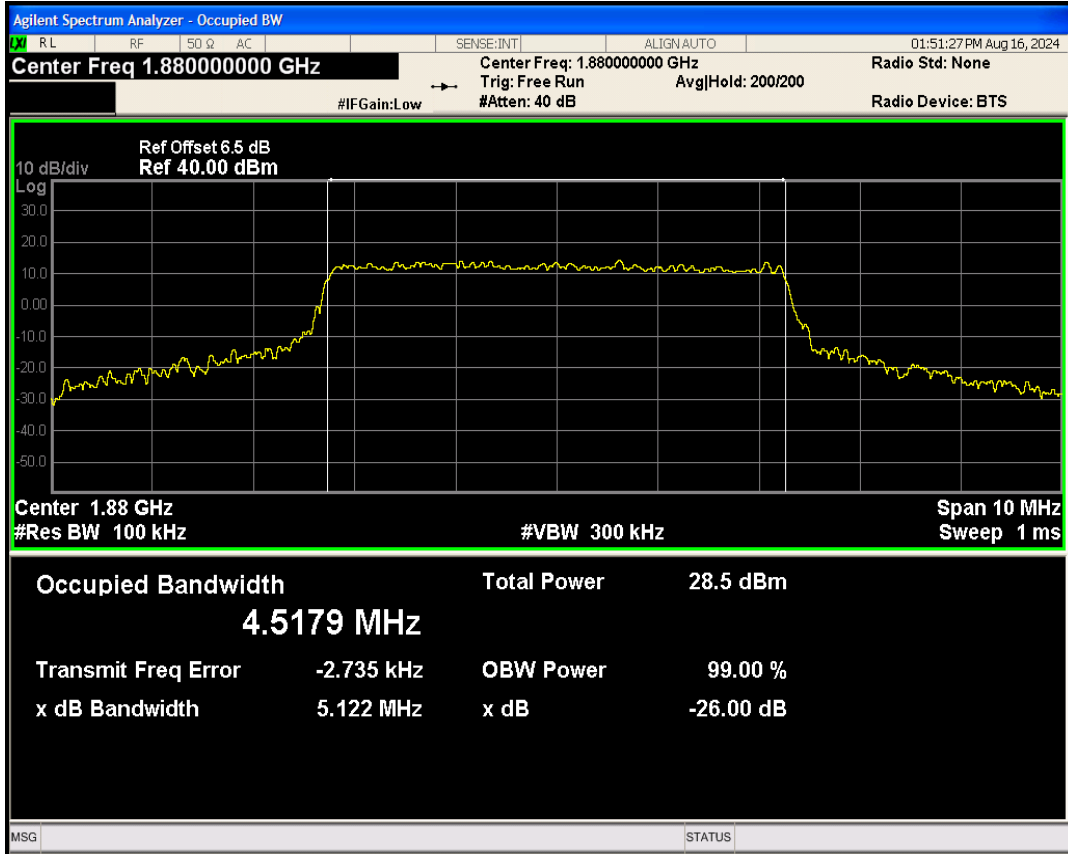
Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0



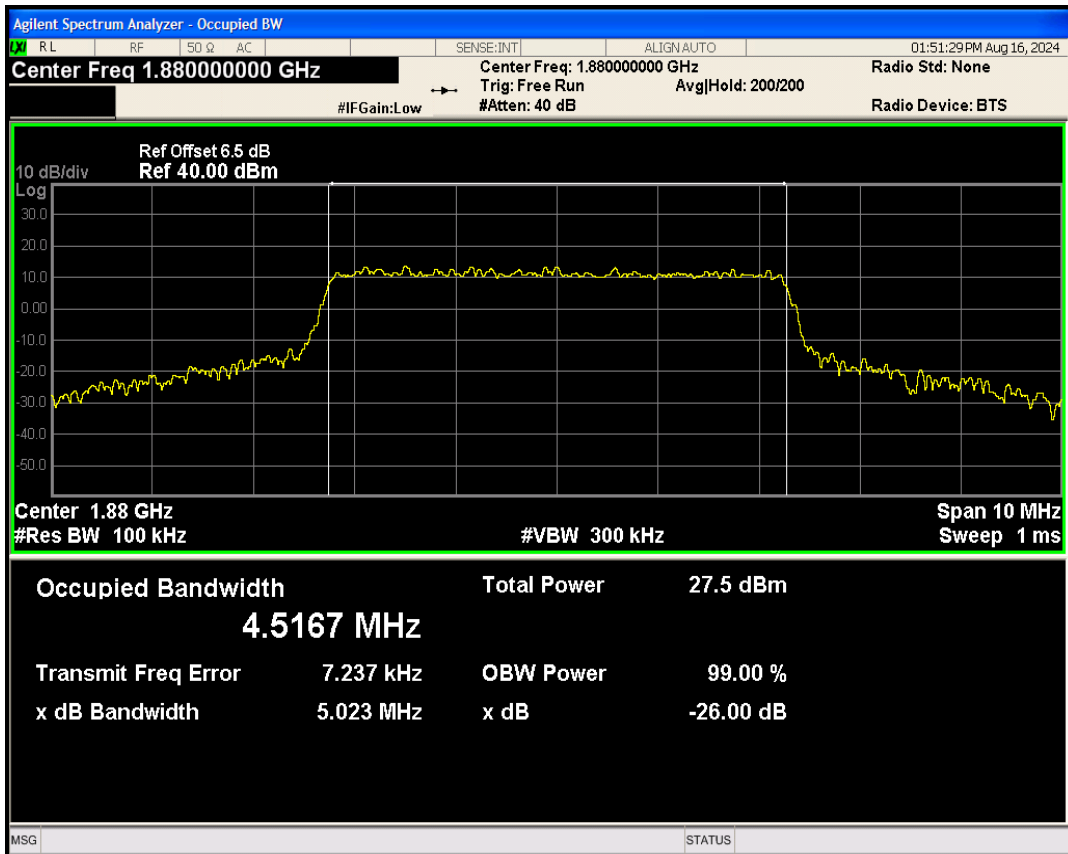
Band2 16QAM BW=5MHz Channel=18625 RB Size=25 Position=#0



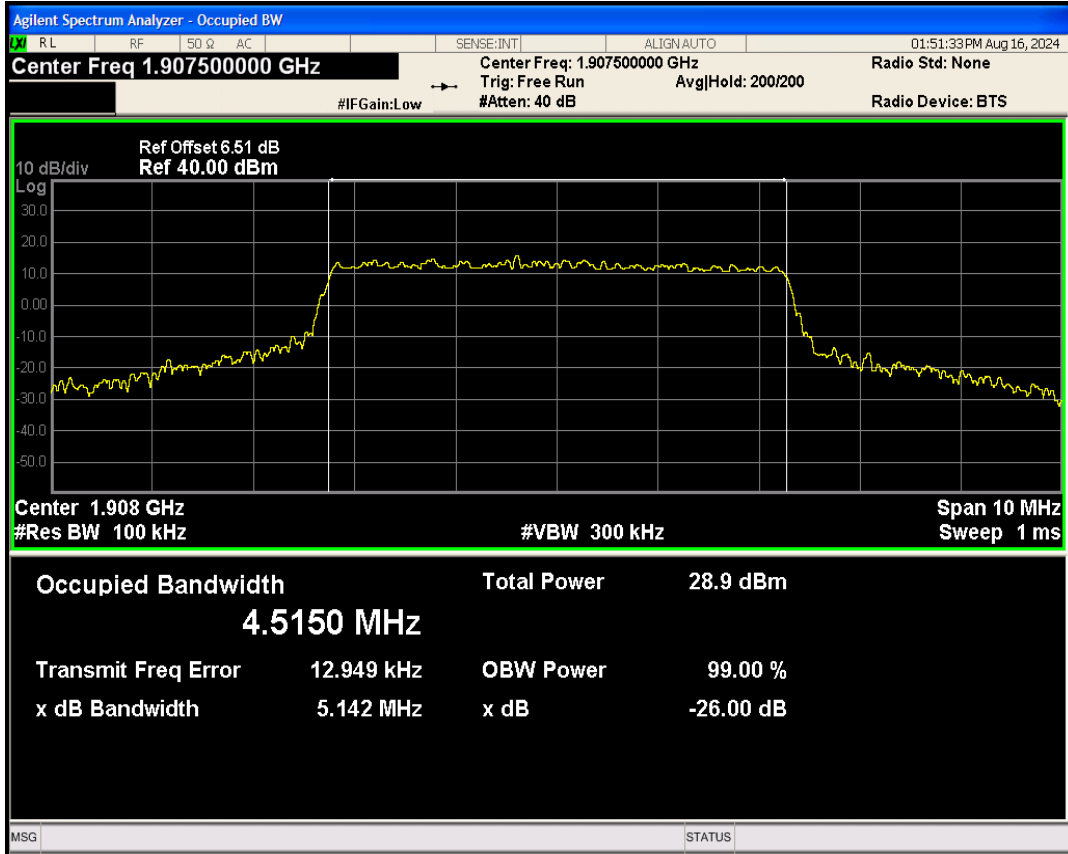
Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0



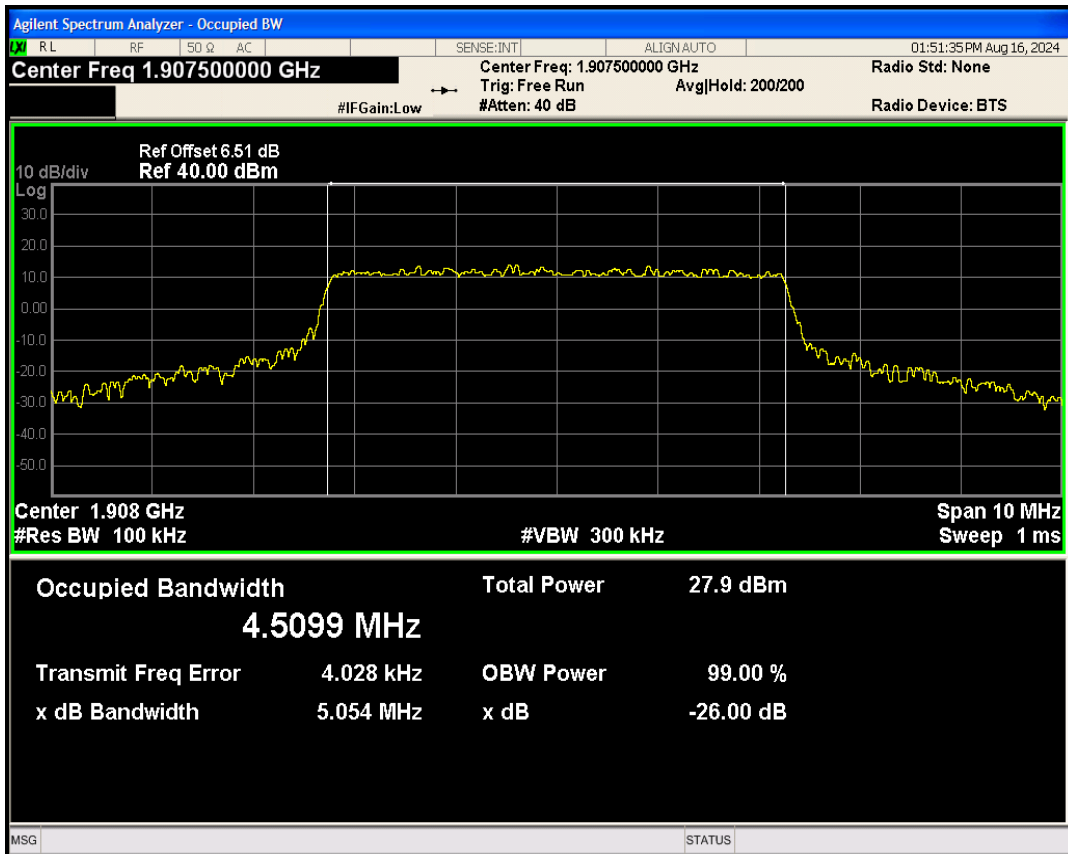
Band2 16QAM BW=5MHz Channel=18900 RB Size=25 Position=#0



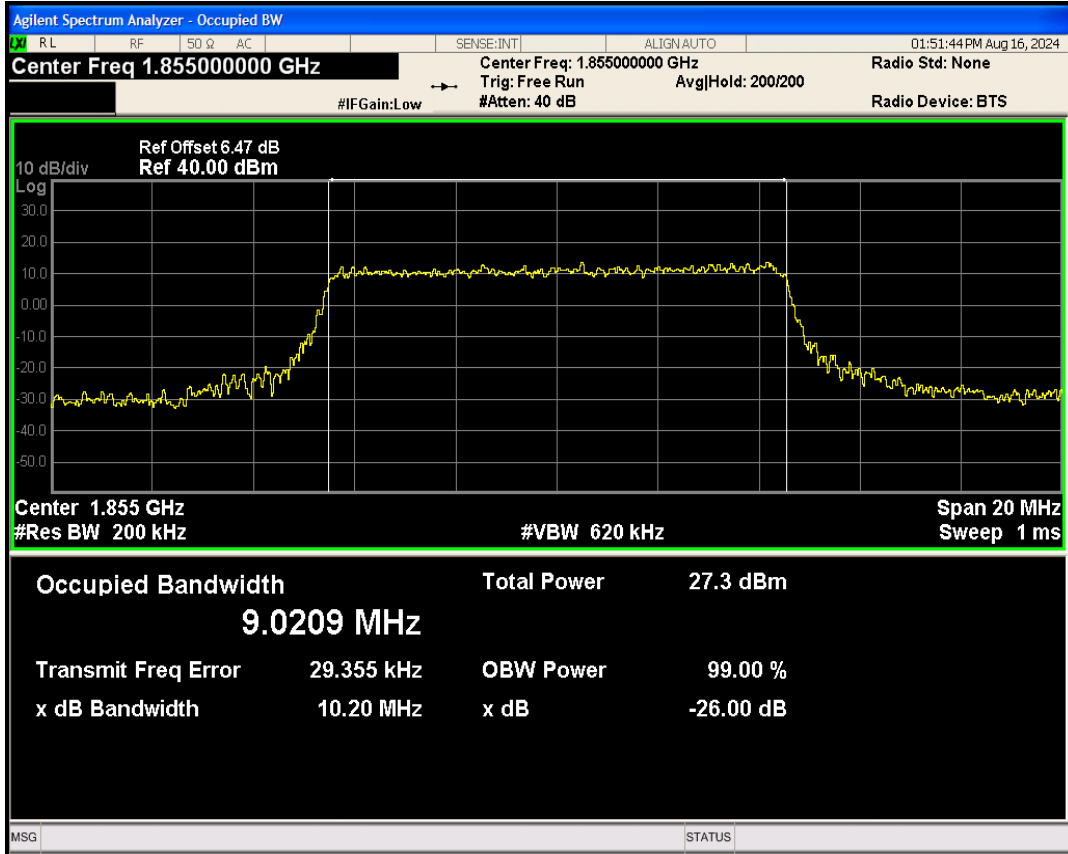
Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0



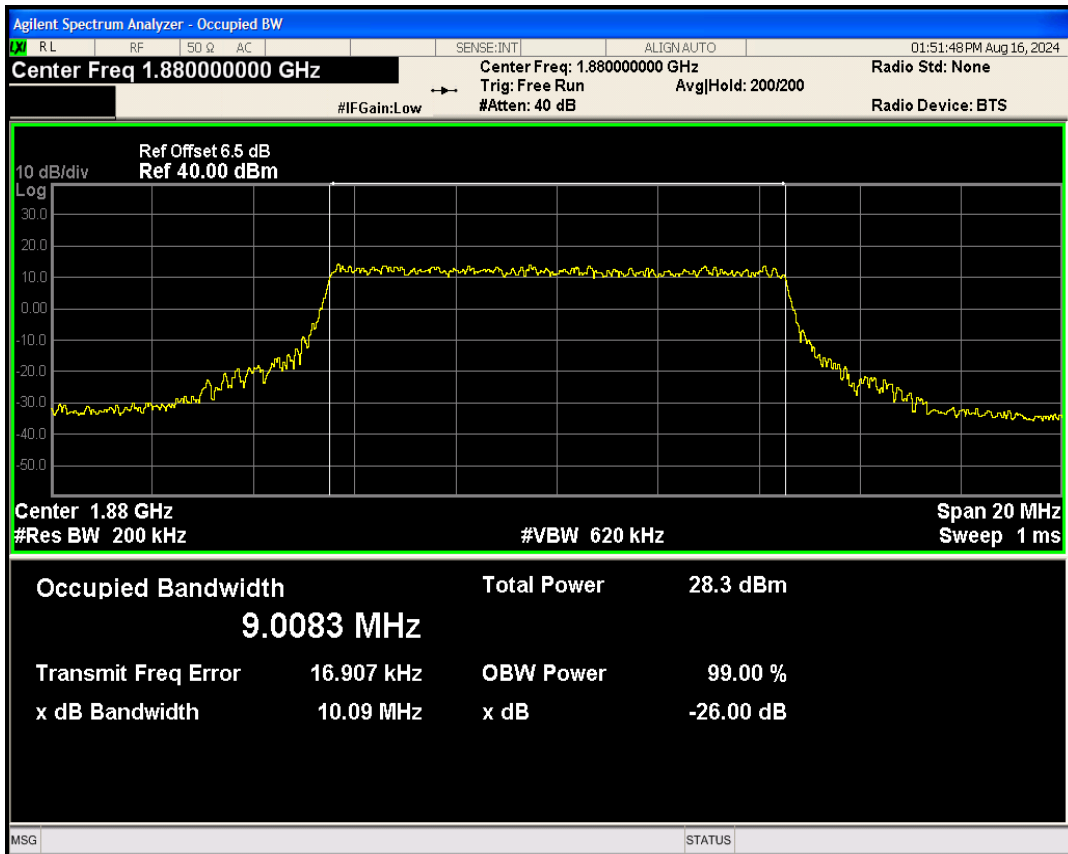
Band2 16QAM BW=5MHz Channel=19175 RB Size=25 Position=#0



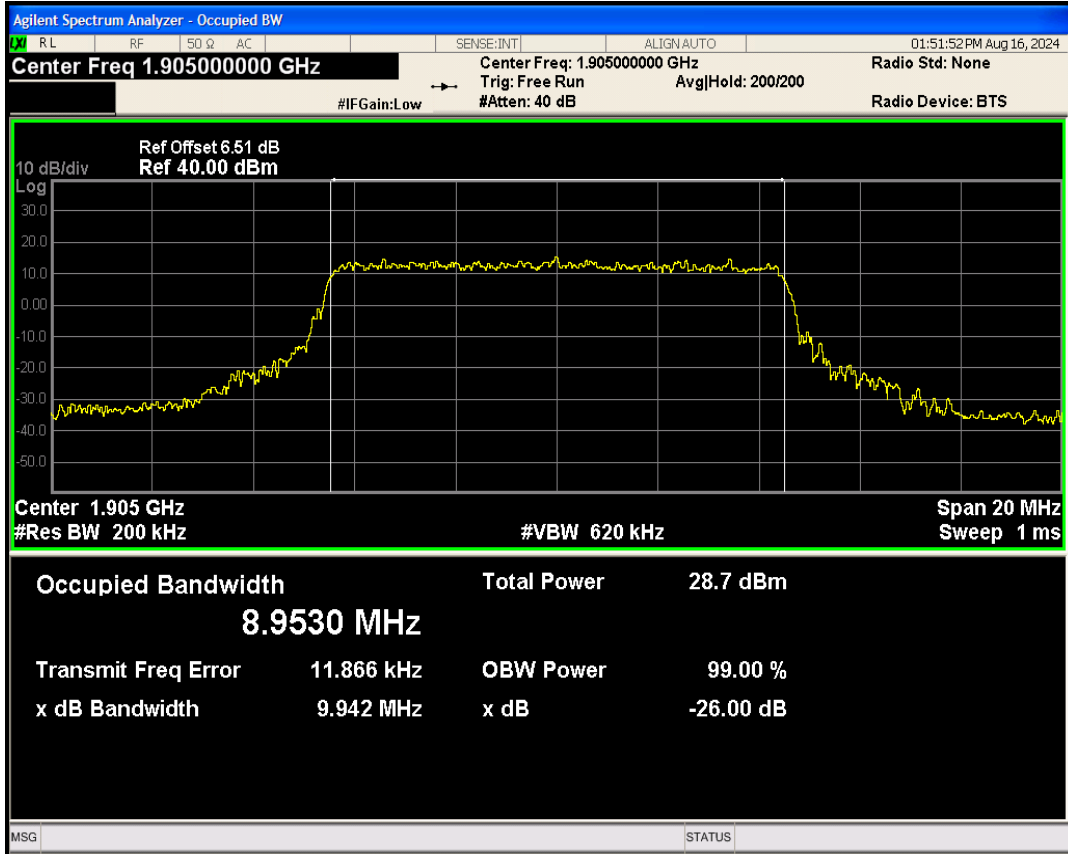
Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0



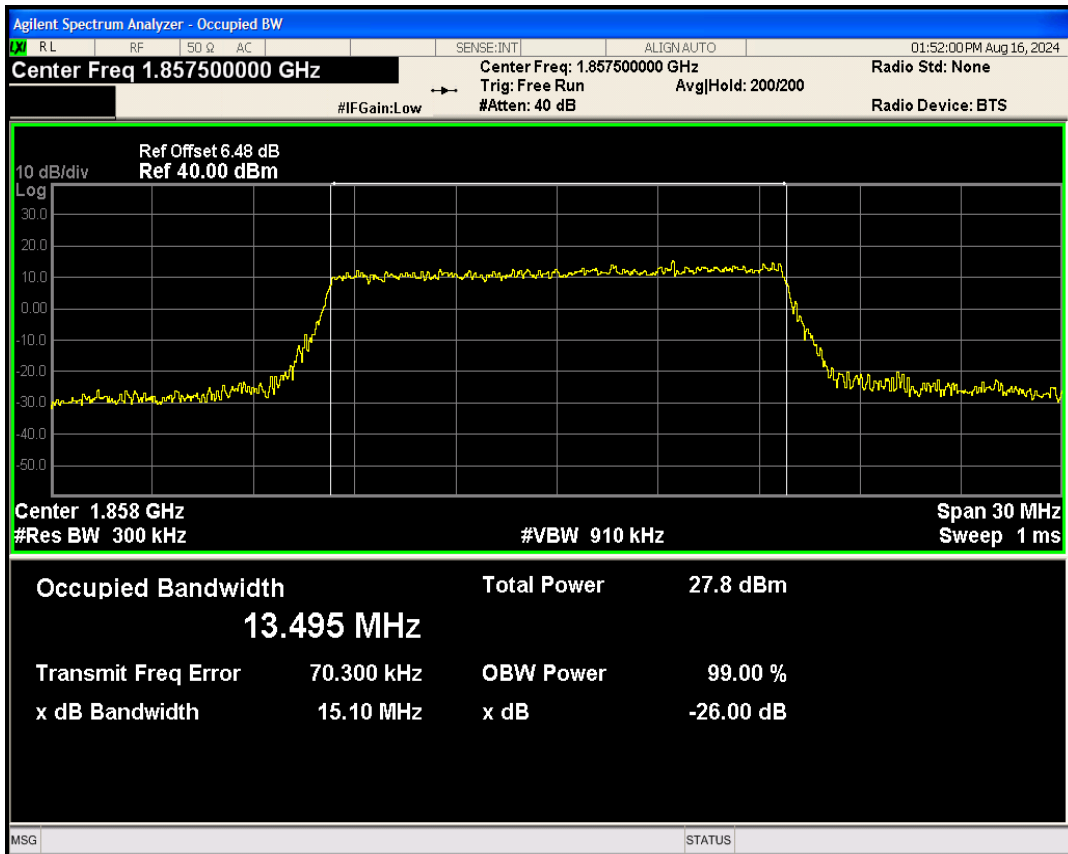
Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0



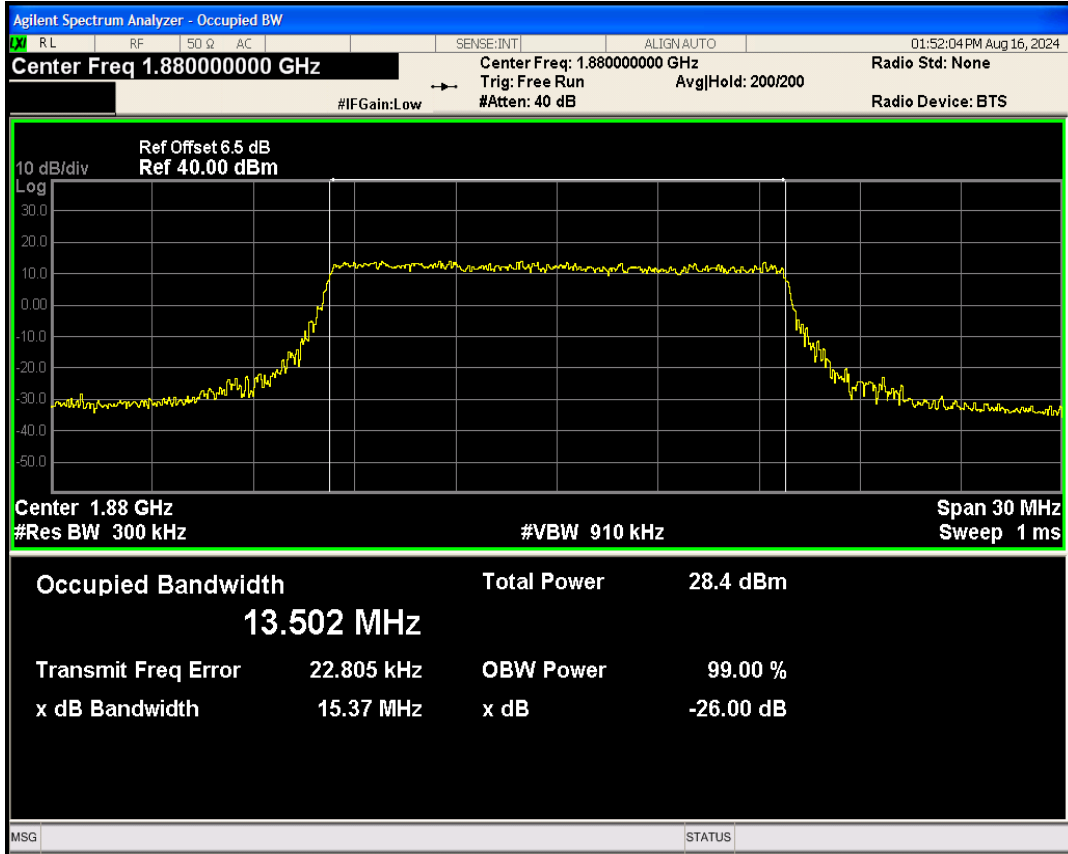
Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0



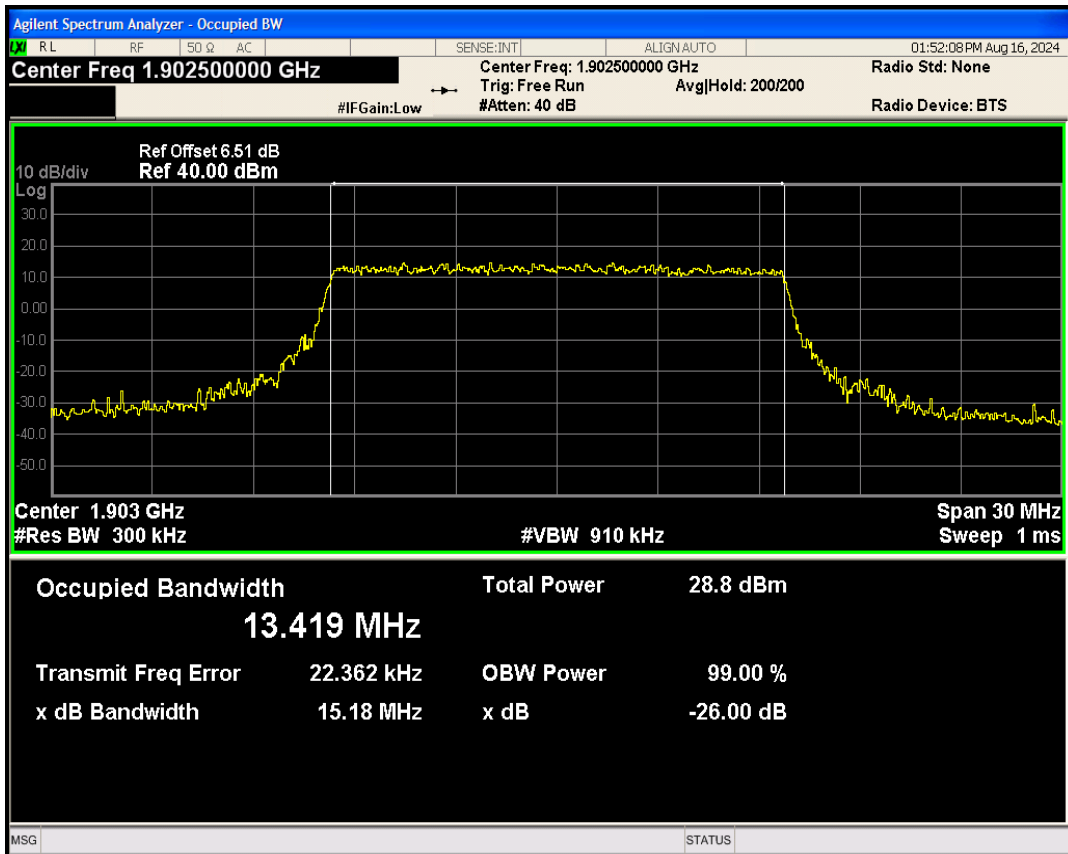
Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0



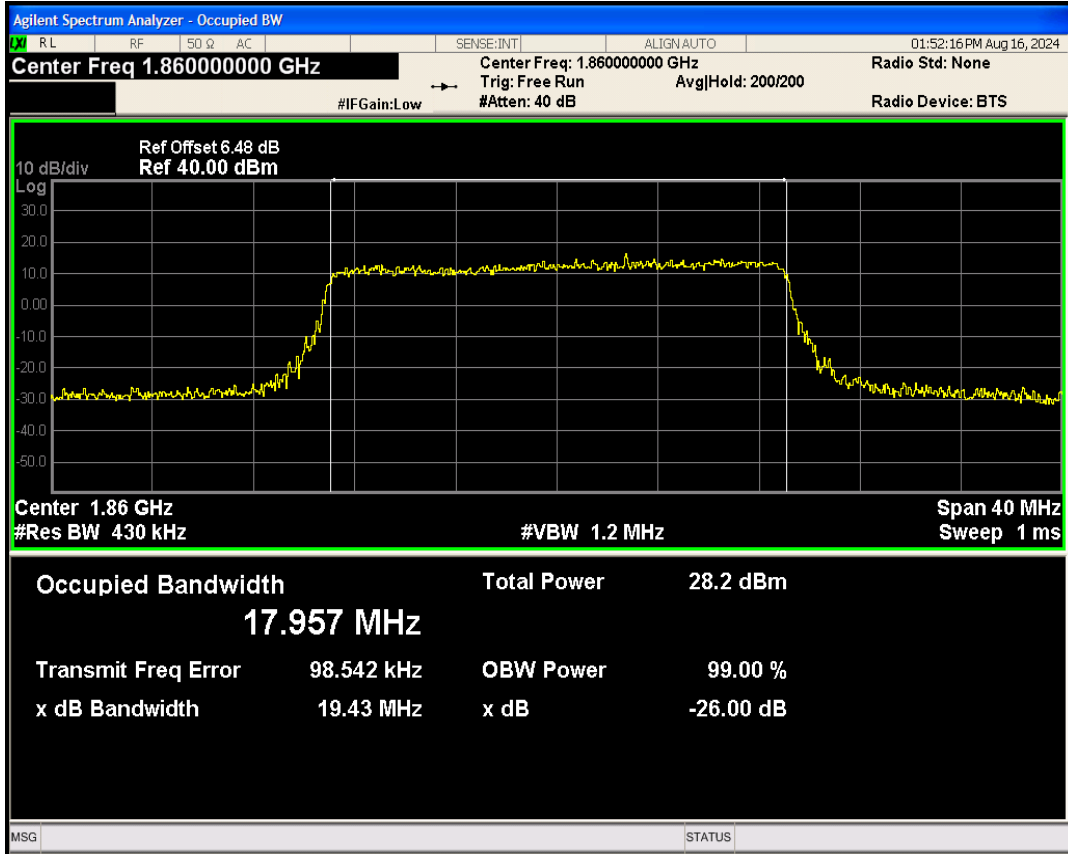
Band2 QPSK BW=15MHz Channel=18900 RB Size=75 Position=#0



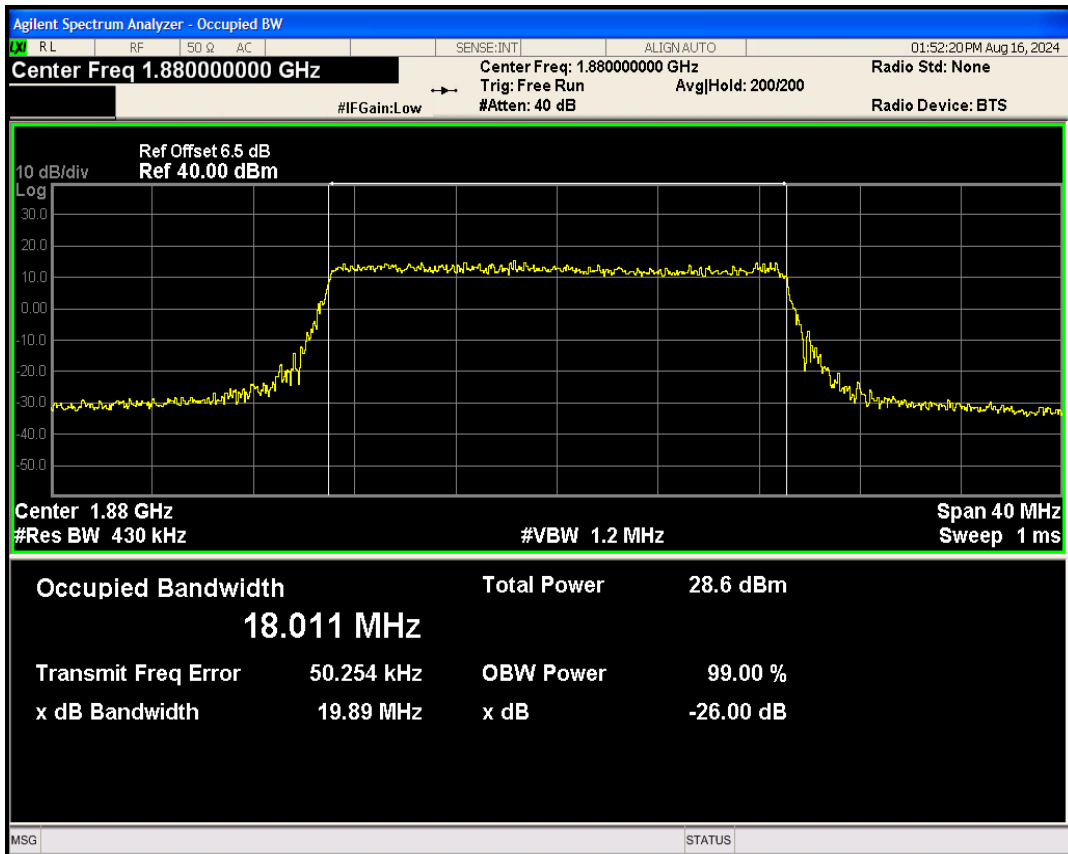
Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0



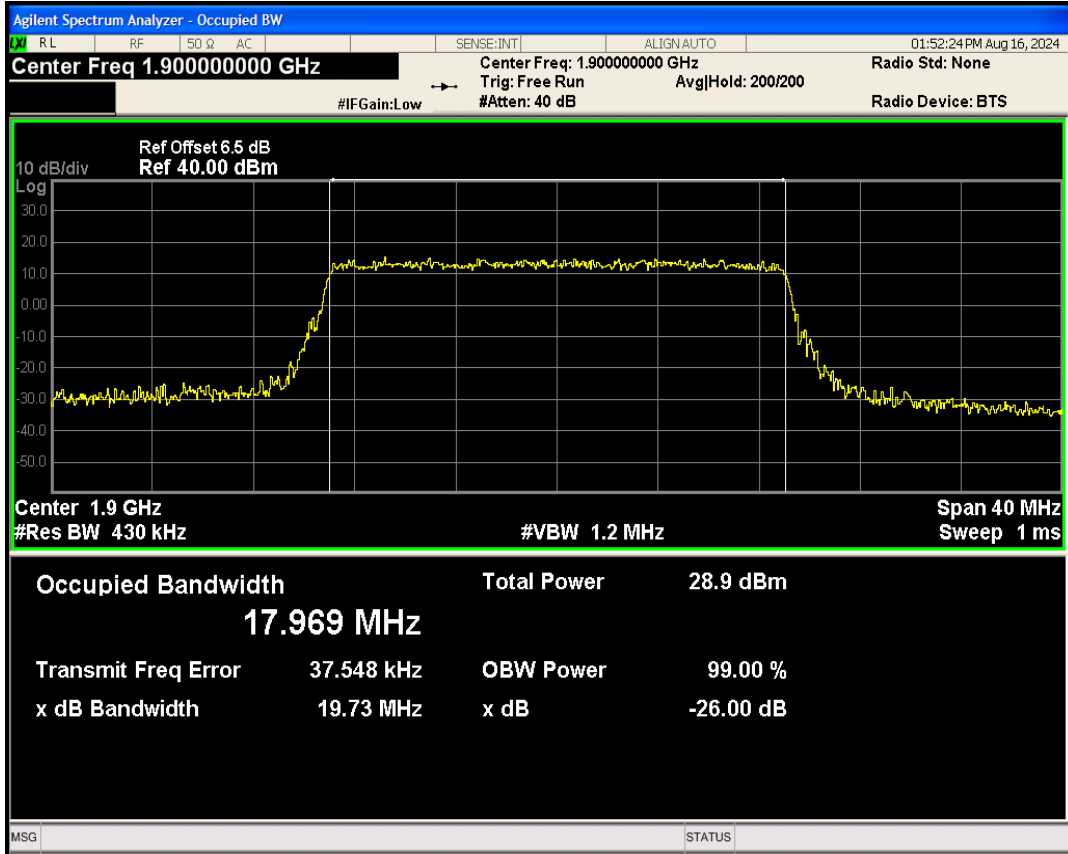
Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0



Band2 QPSK BW=20MHz Channel=18900 RB Size=100 Position=#0



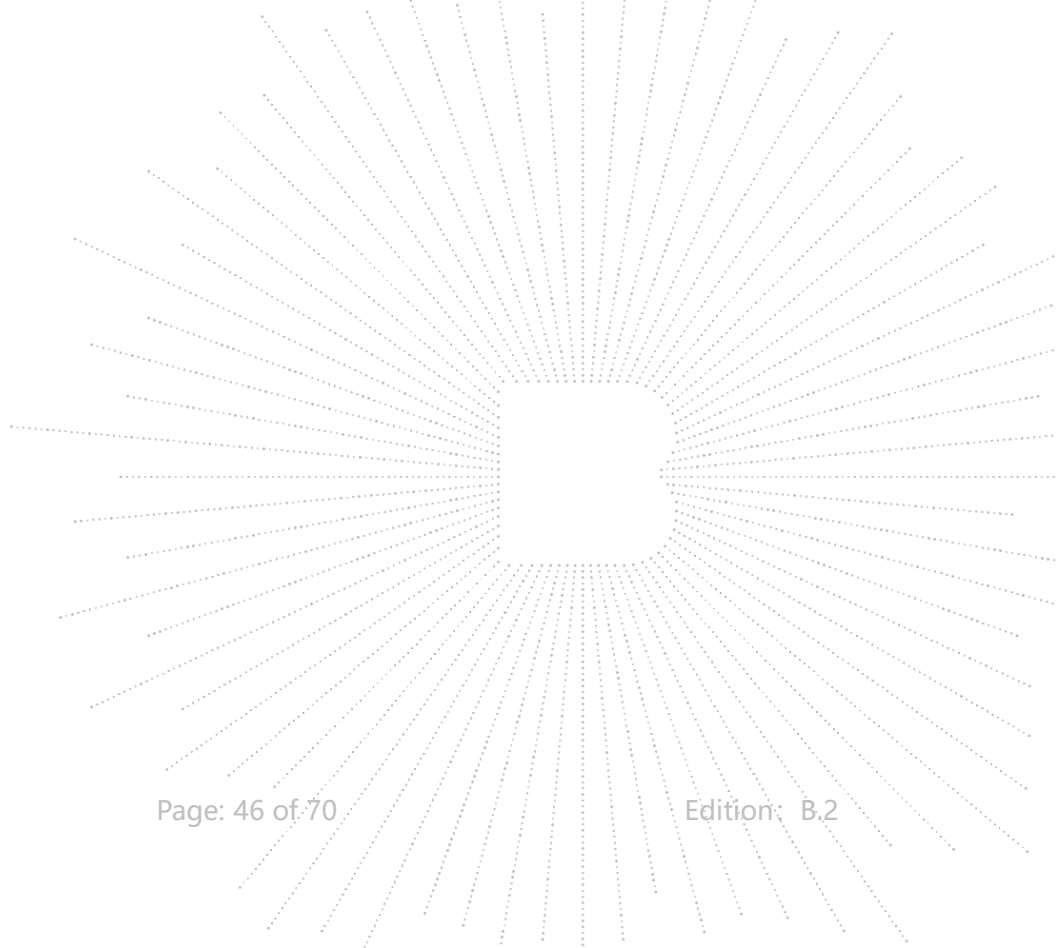
Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0

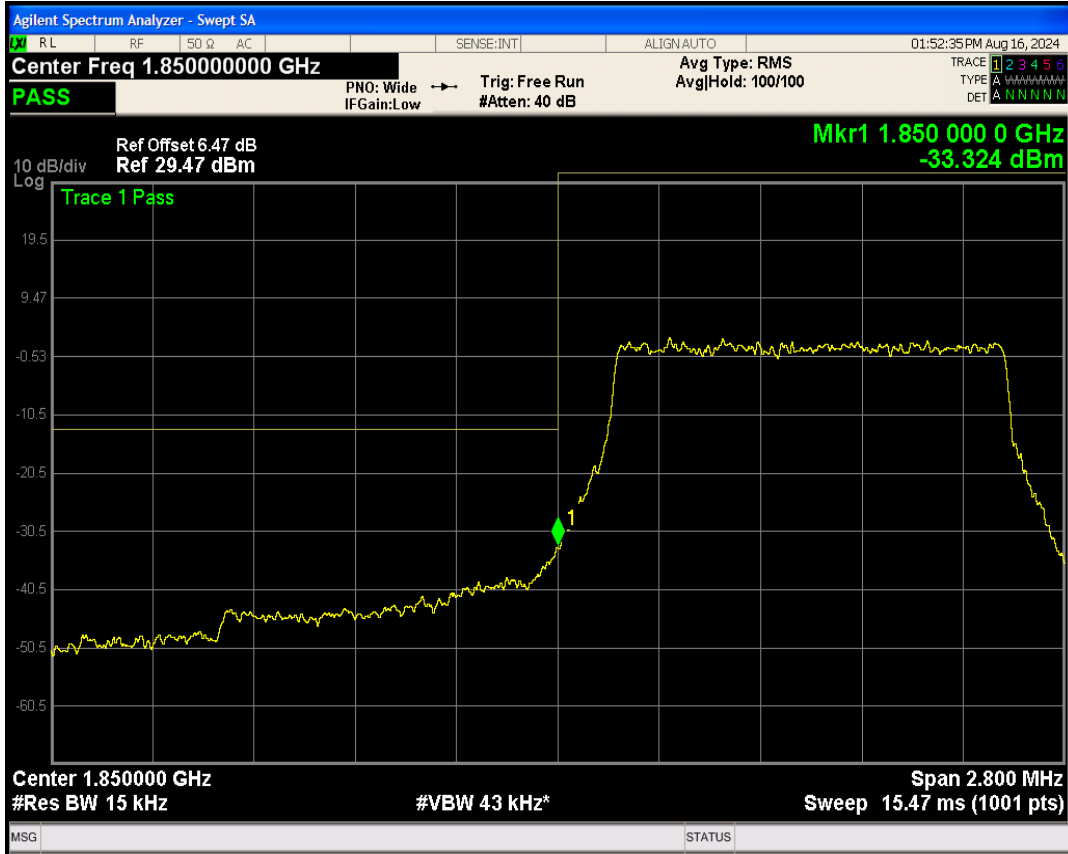


## Appendix 5. Band edge

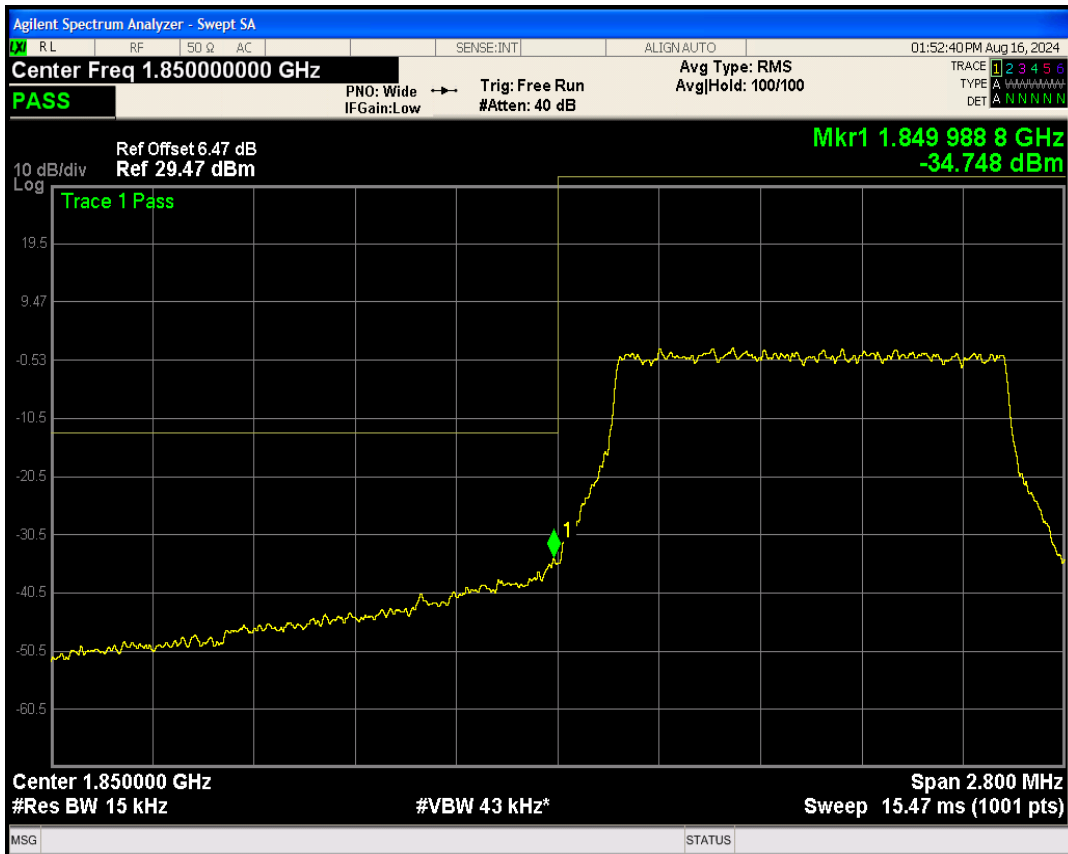
| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Spur Freq<br>(MHz) | Spur Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|--------------------|---------------------|----------------|---------|
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | 1850.00            | -33.32              | -13            | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | 1849.99            | -34.74              | -13            | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | 1910.00            | -32.83              | -13            | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | 16QAM      | 1910.00            | -33.52              | -13            | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | QPSK       | 1849.99            | -30.93              | -13            | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | 16QAM      | 1850.00            | -32.63              | -13            | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | QPSK       | 1910.00            | -31.35              | -13            | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | 16QAM      | 1910.00            | -32.22              | -13            | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | QPSK       | 1850.00            | -29.54              | -13            | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | 16QAM      | 1849.96            | -32.74              | -13            | PASS    |
| Band2 | 5                  | 19175         | 25         | #0             | QPSK       | 1910.02            | -29.92              | -13            | PASS    |
| Band2 | 5                  | 19175         | 25         | #0             | 16QAM      | 1910.02            | -31.73              | -13            | PASS    |
| Band2 | 10                 | 18650         | 50         | #0             | QPSK       | 1849.94            | -31.70              | -13            | PASS    |
| Band2 | 10                 | 19150         | 50         | #0             | QPSK       | 1910.02            | -30.98              | -13            | PASS    |
| Band2 | 15                 | 18675         | 75         | #0             | QPSK       | 1849.88            | -33.75              | -13            | PASS    |
| Band2 | 15                 | 19125         | 75         | #0             | QPSK       | 1910.00            | -32.61              | -13            | PASS    |
| Band2 | 20                 | 18700         | 100        | #0             | QPSK       | 1849.60            | -36.97              | -13            | PASS    |
| Band2 | 20                 | 19100         | 100        | #0             | QPSK       | 1910.24            | -37.48              | -13            | PASS    |

Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

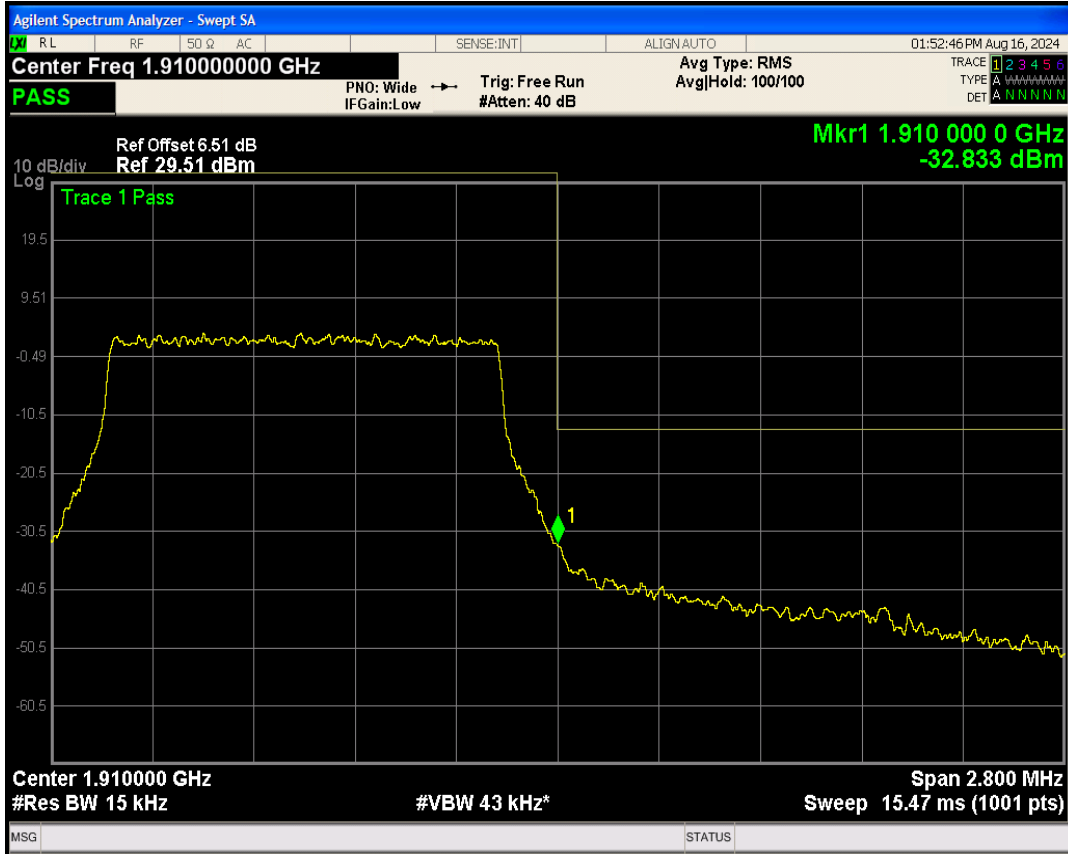




Band2 16QAM BW=1.4MHz Channel=18607 RB Size=6 Position=#0



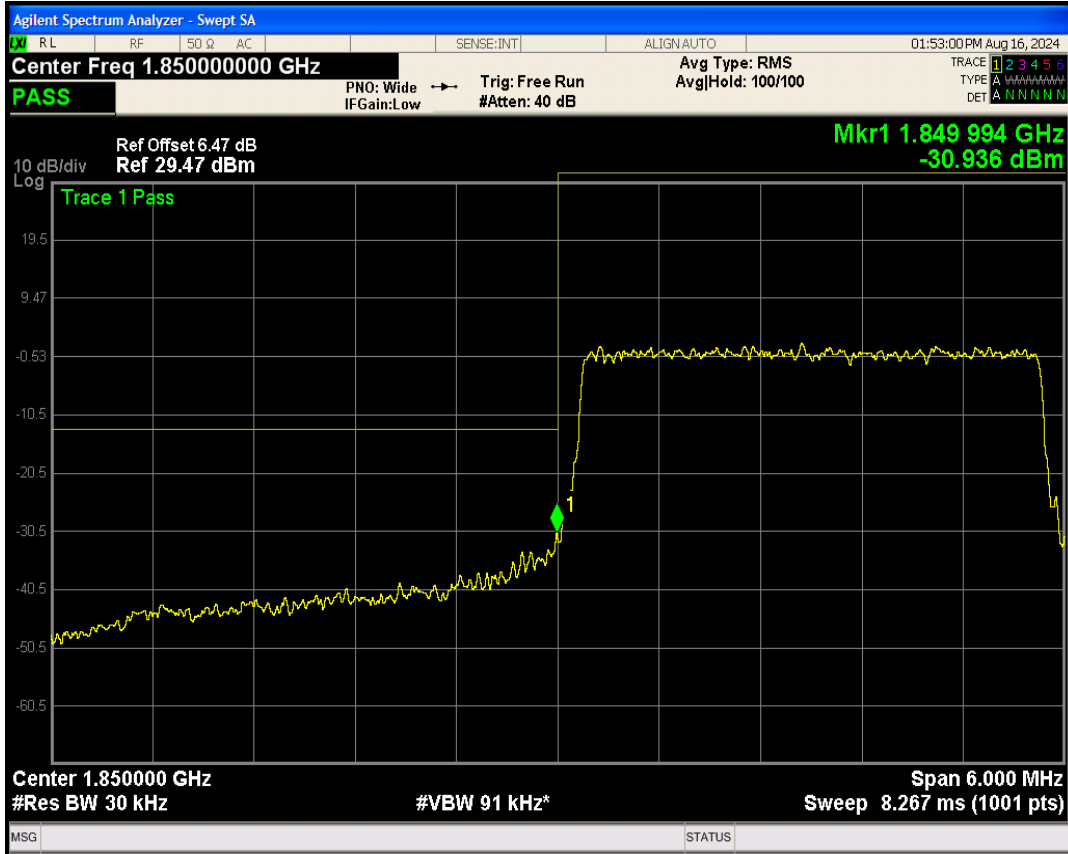
Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0



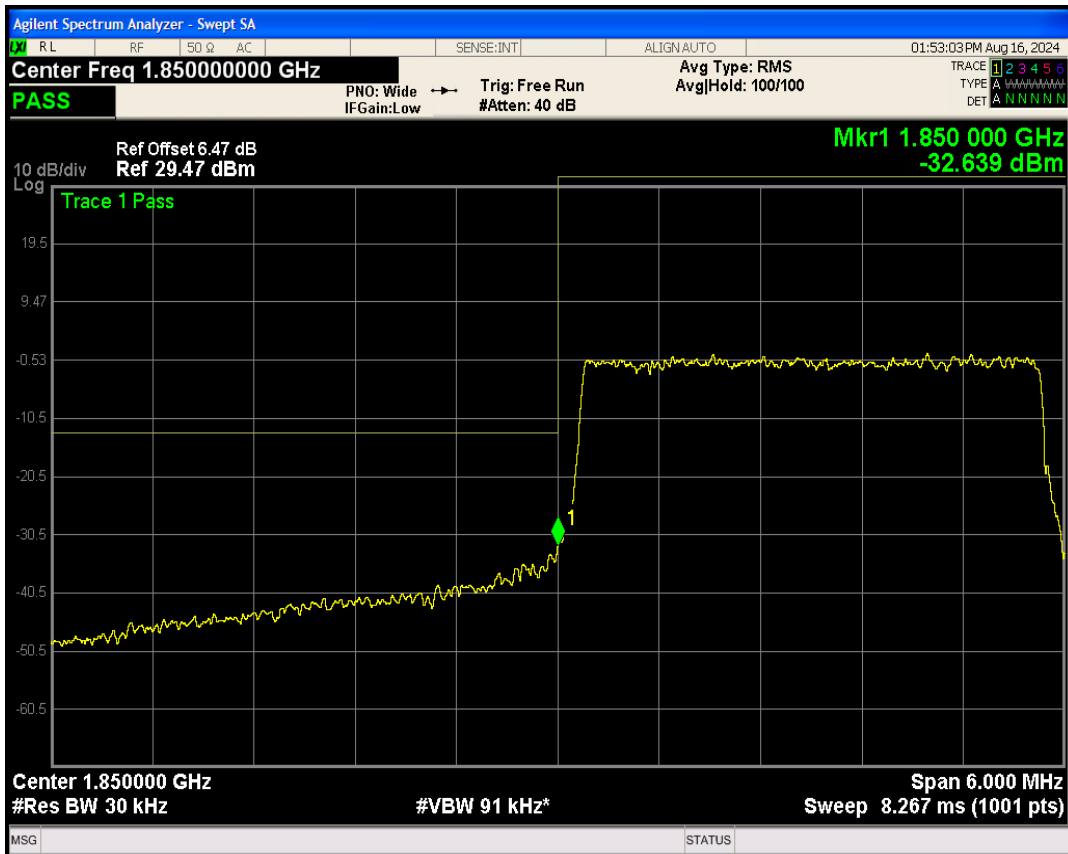
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=6 Position=#0



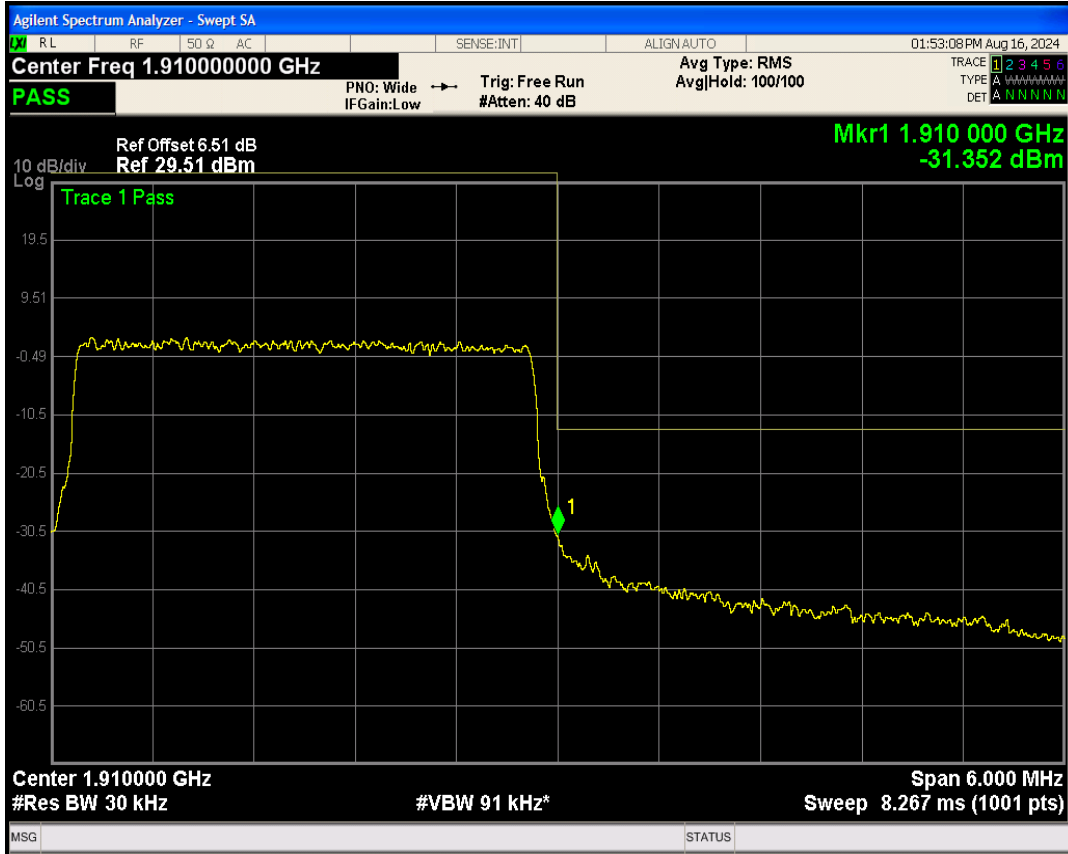
Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0



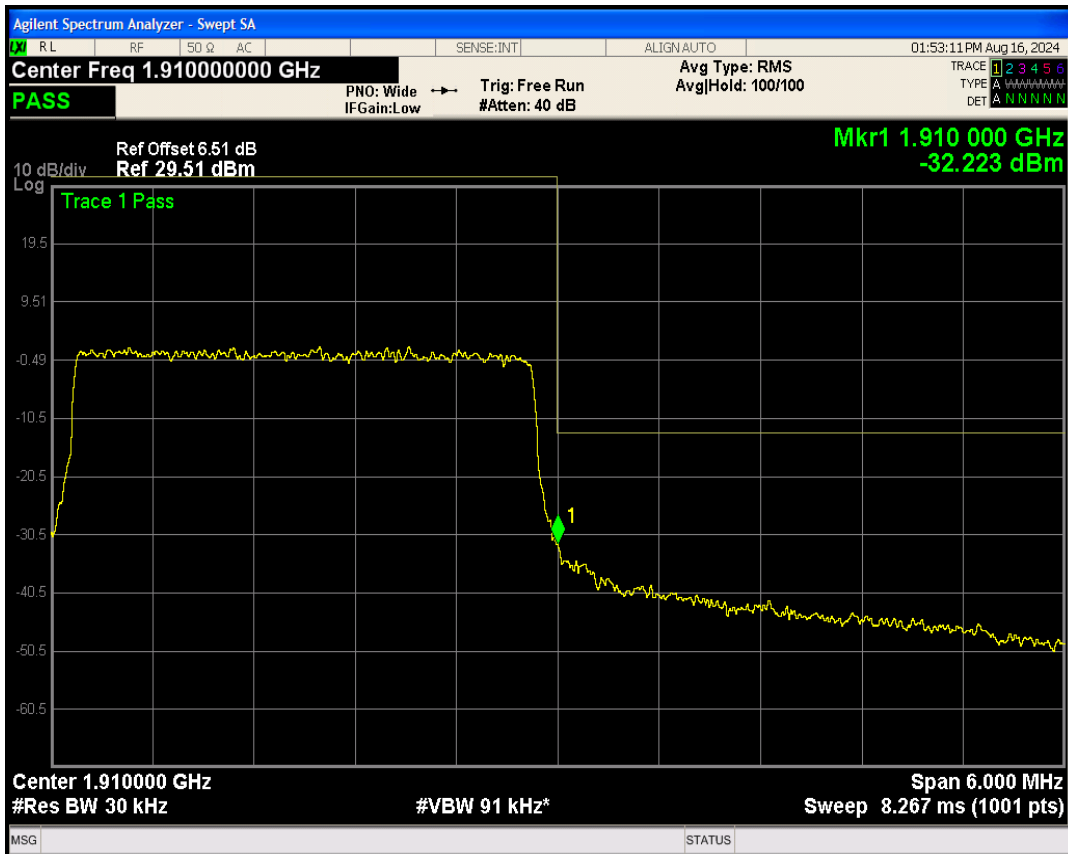
Band2 16QAM BW=3MHz Channel=18615 RB Size=15 Position=#0



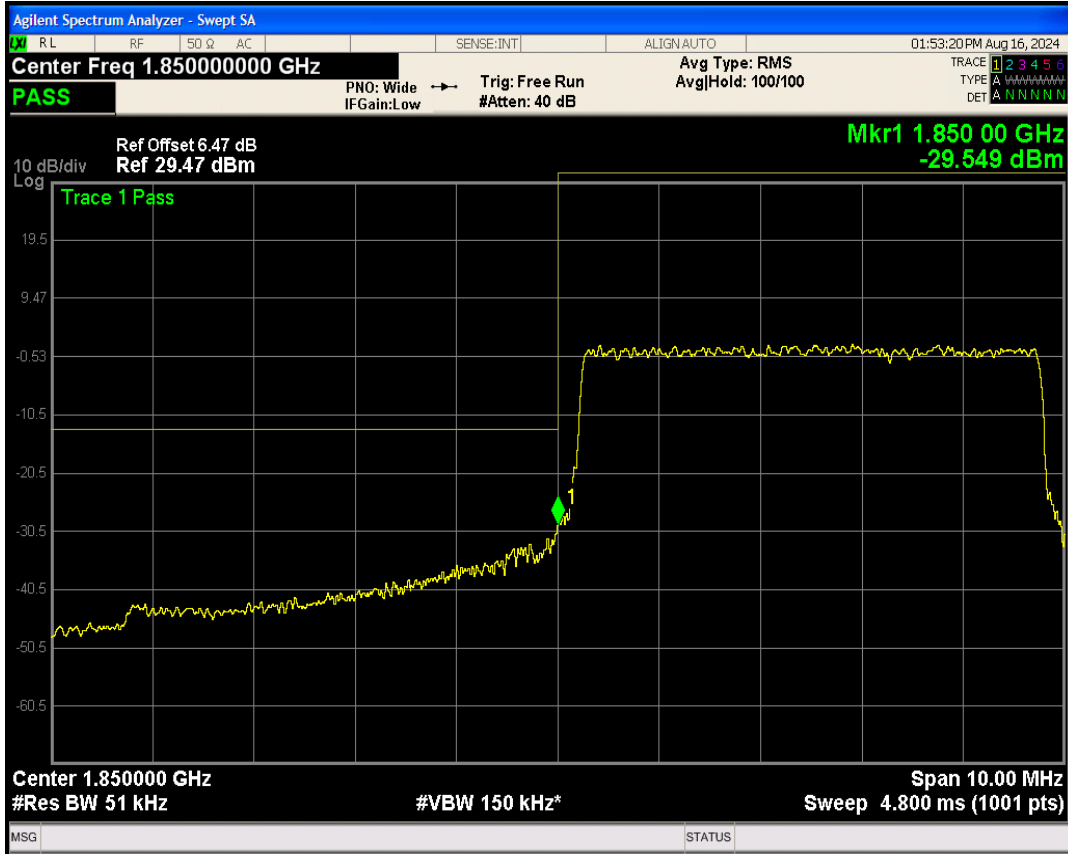
Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0



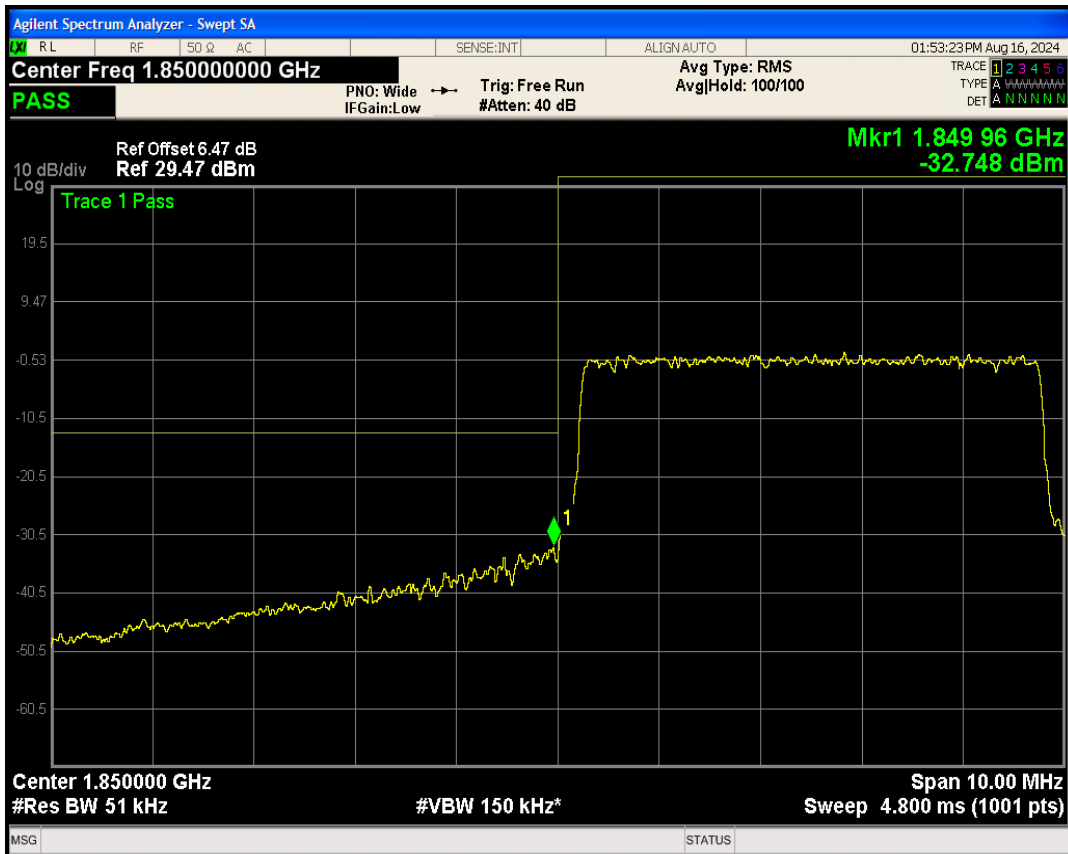
Band2 16QAM BW=3MHz Channel=19185 RB Size=15 Position=#0



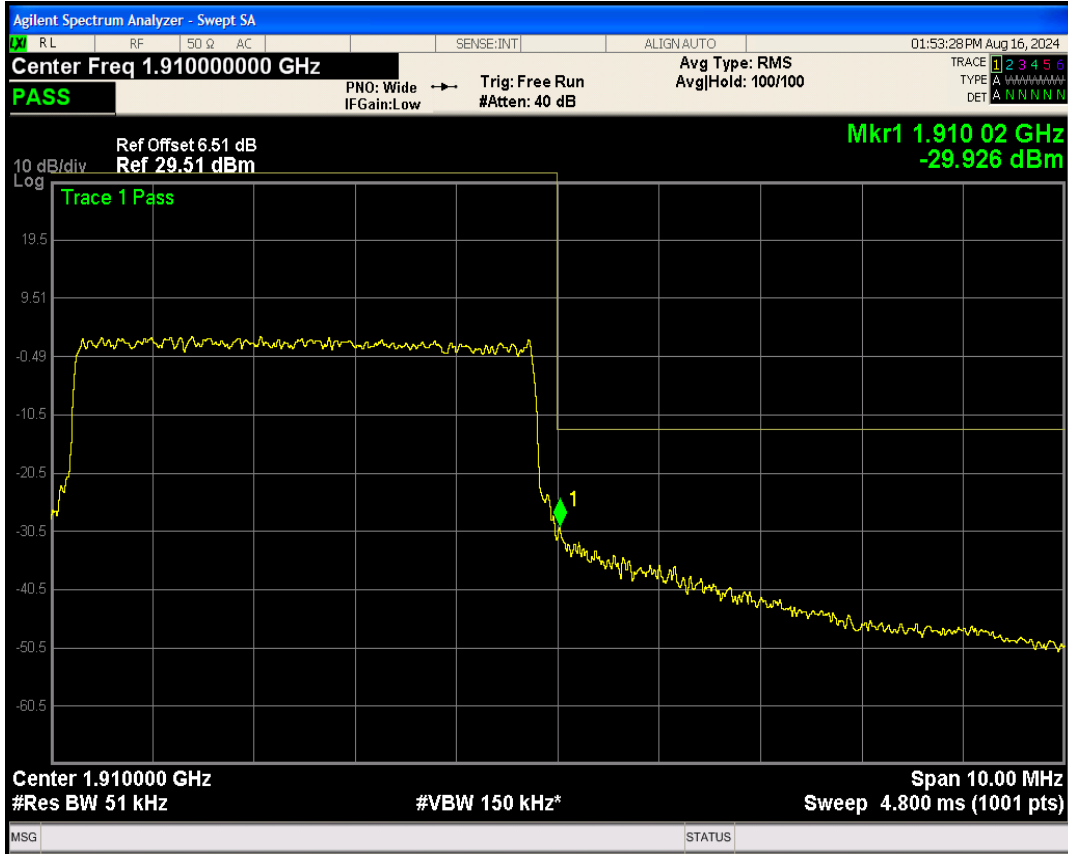
Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0



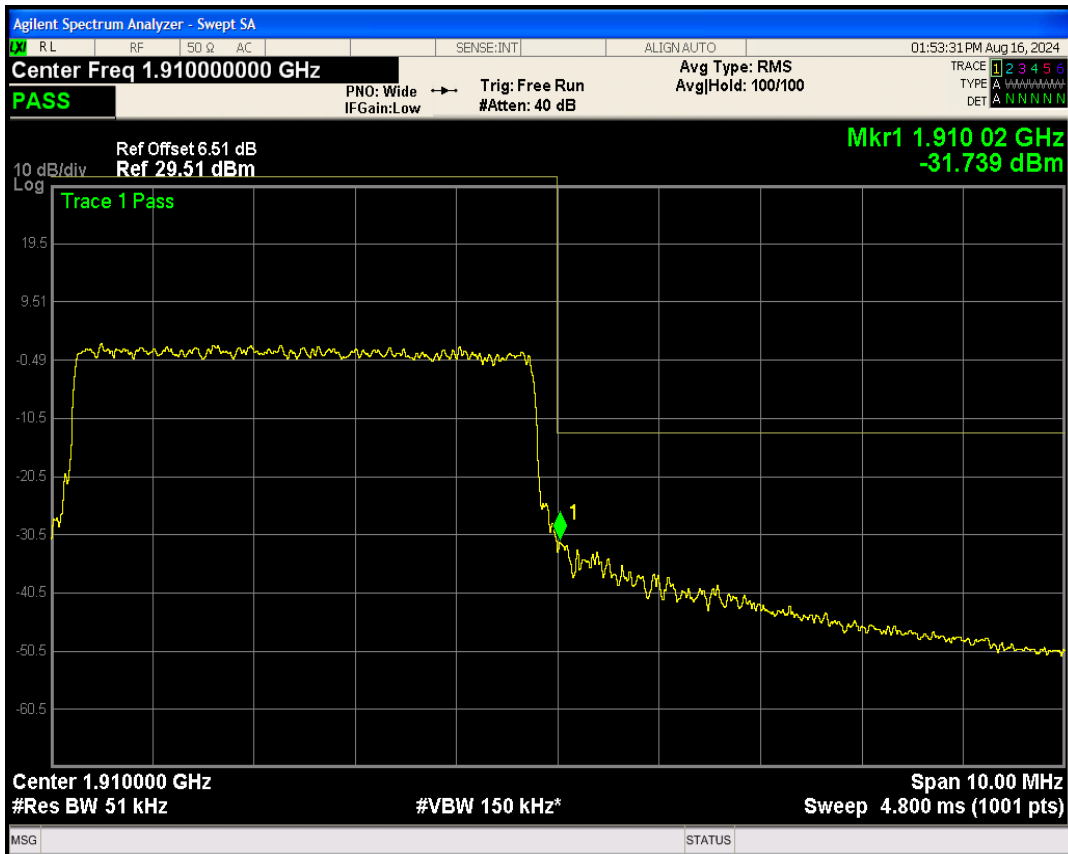
Band2 16QAM BW=5MHz Channel=18625 RB Size=25 Position=#0



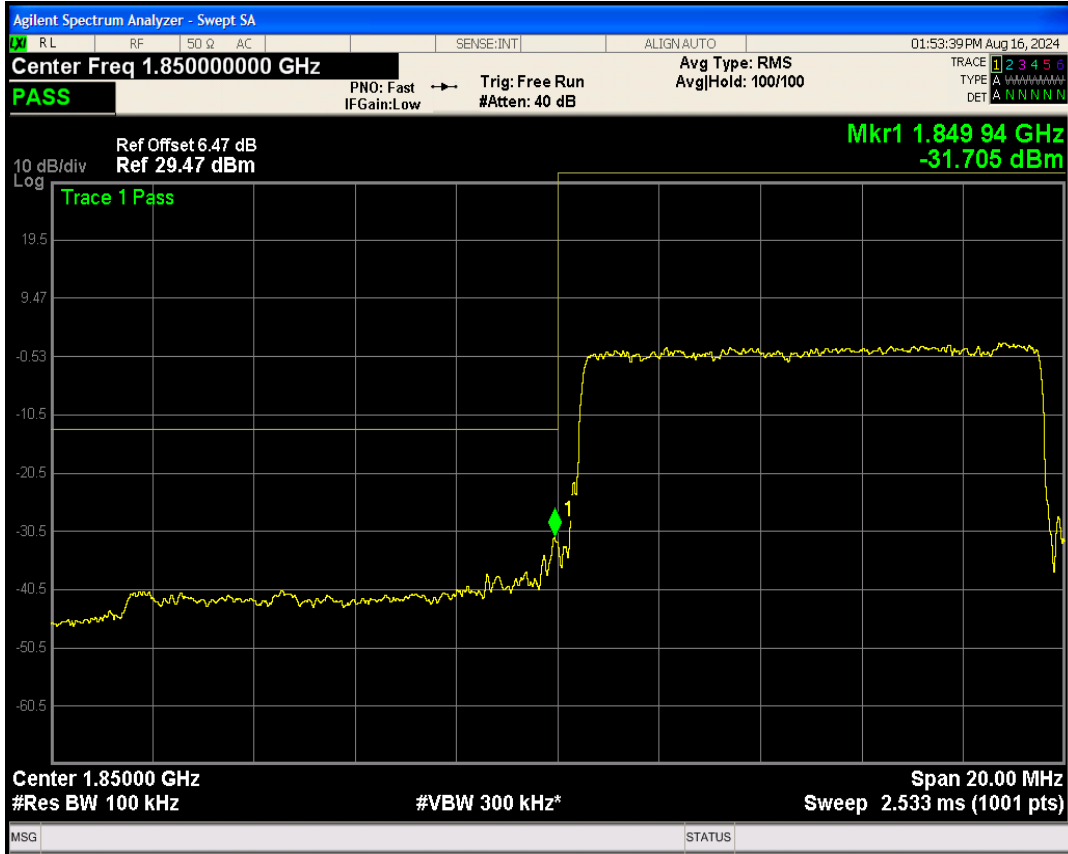
Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0



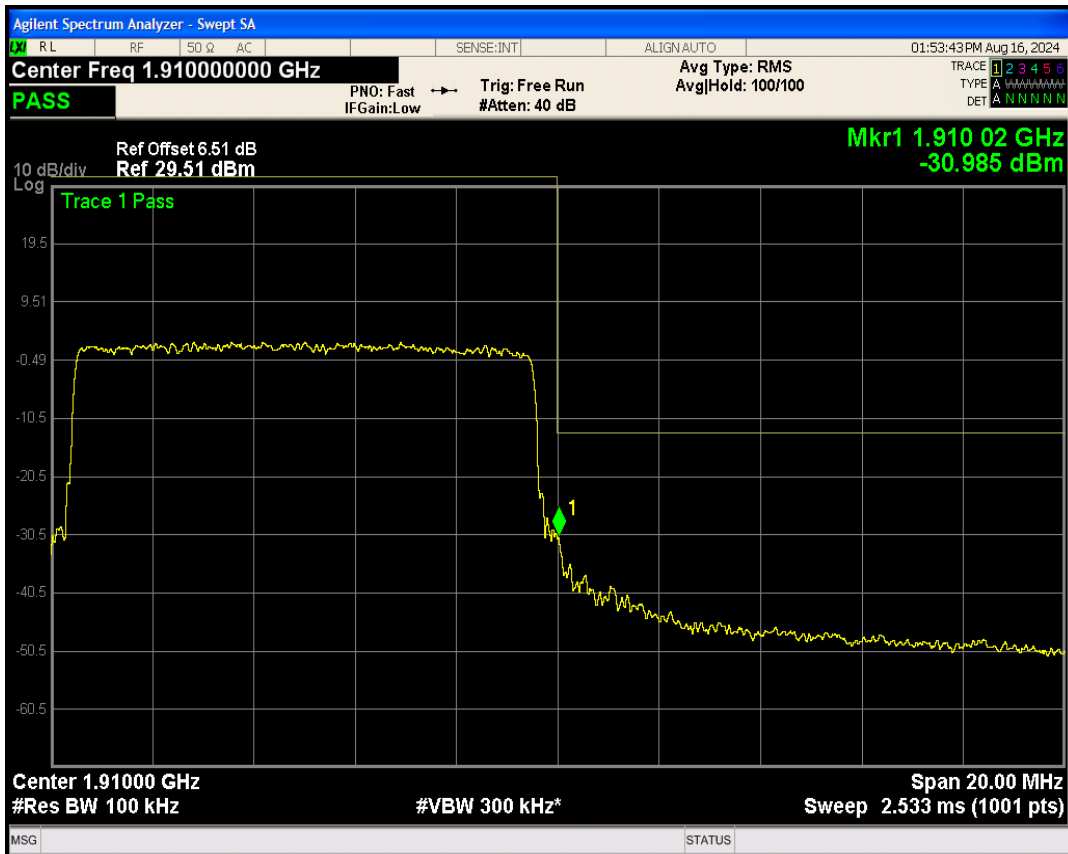
Band2 16QAM BW=5MHz Channel=19175 RB Size=25 Position=#0



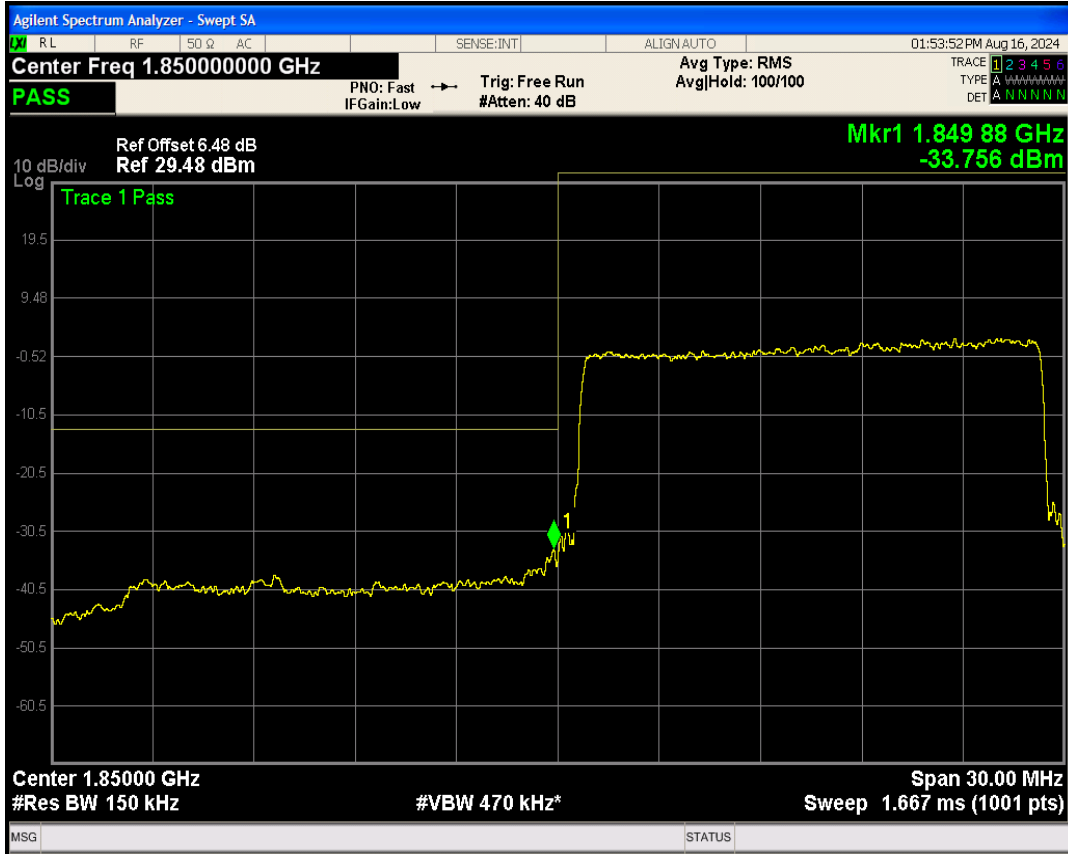
Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0



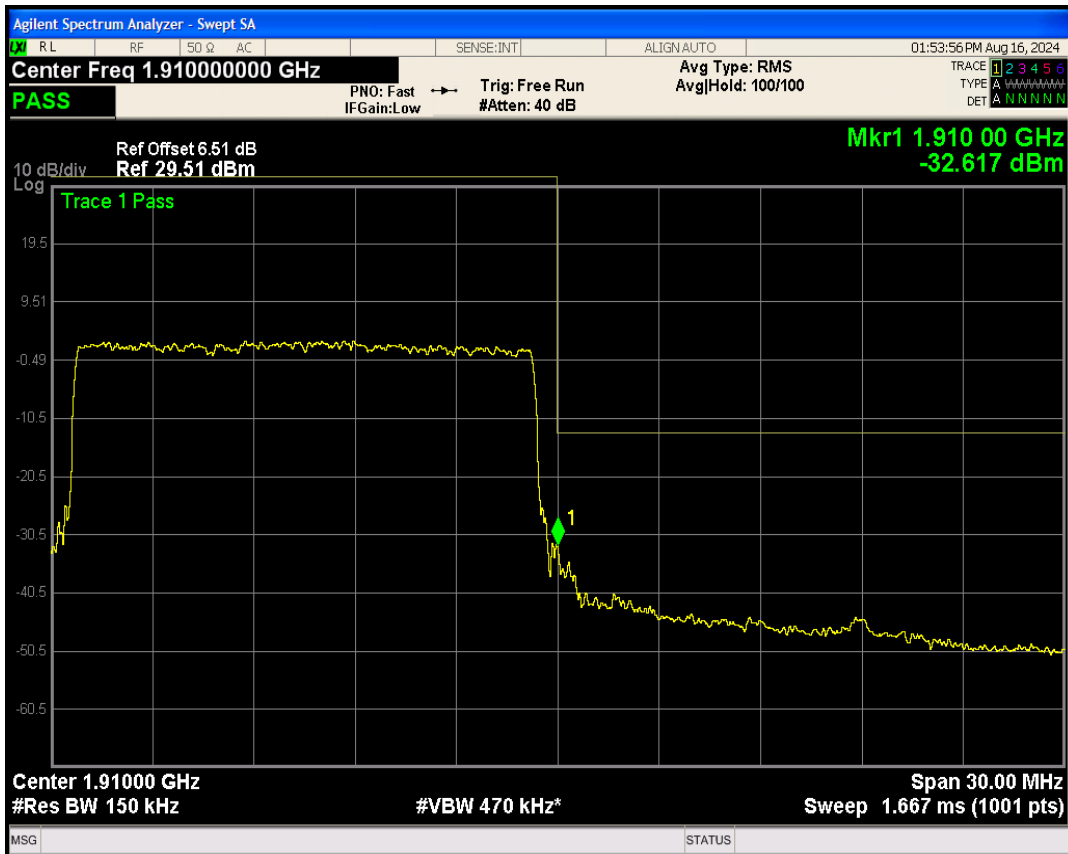
Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0



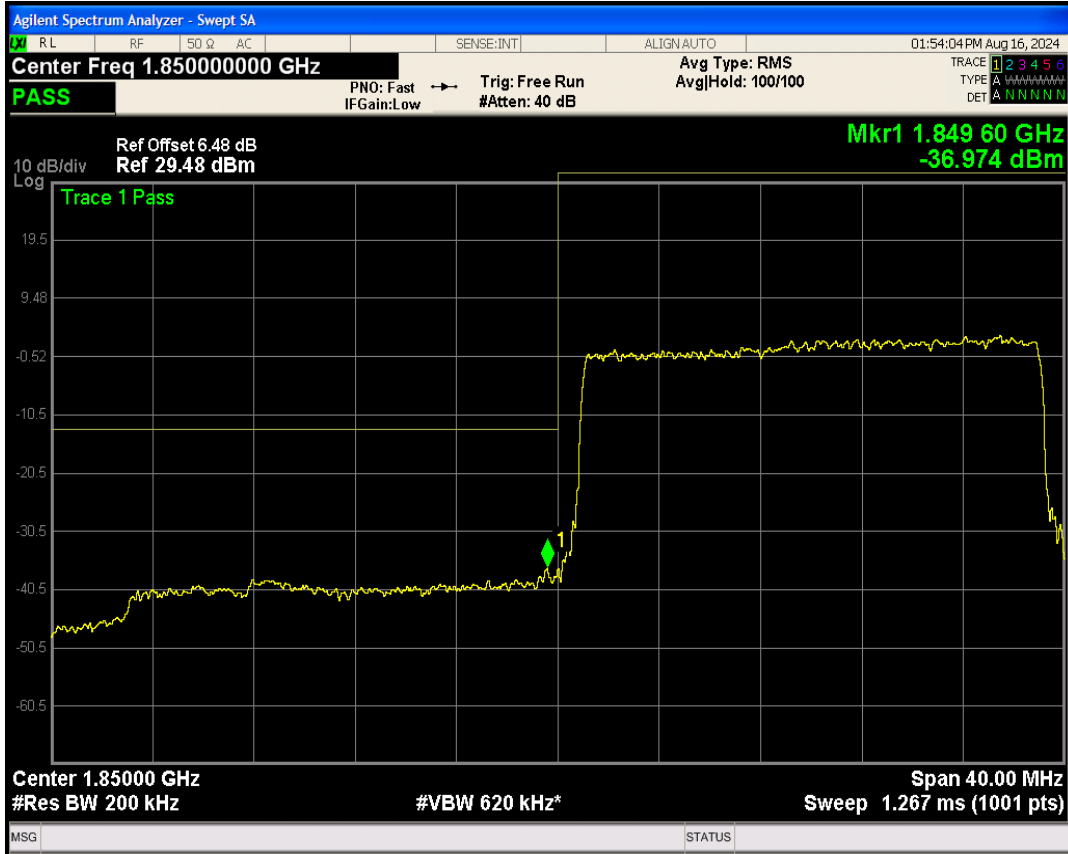
Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0



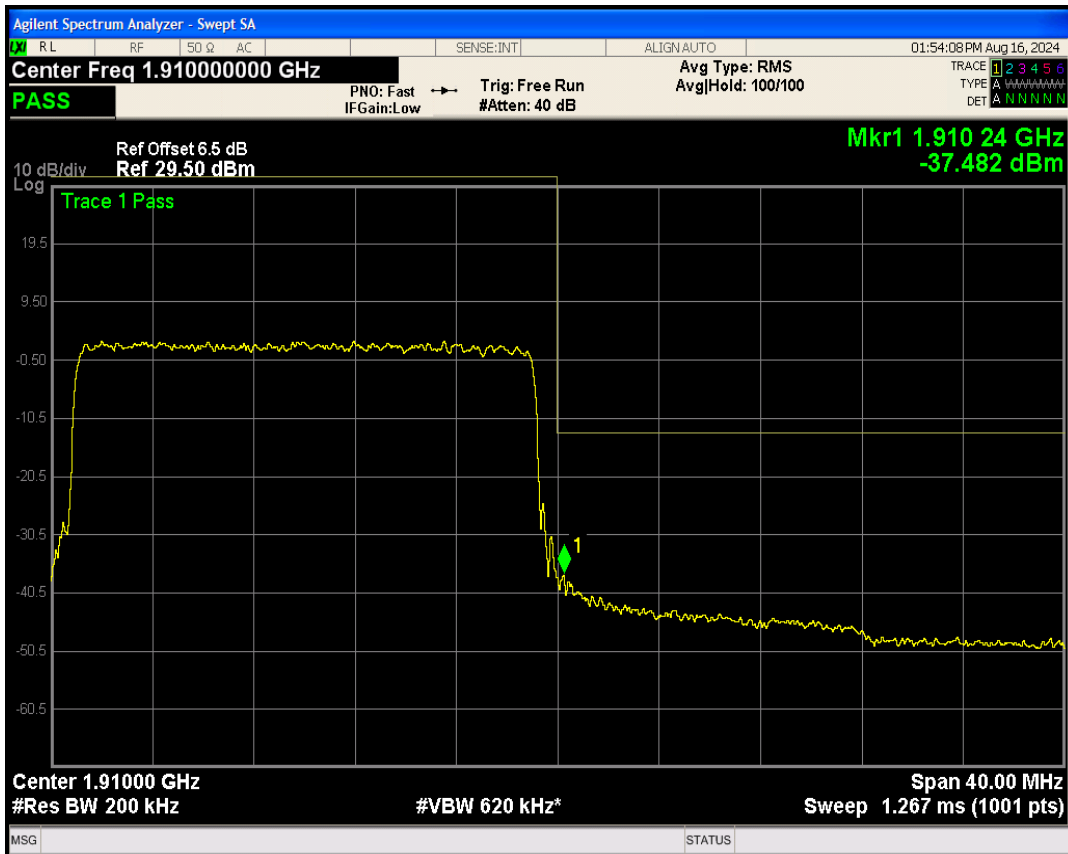
Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0



Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0



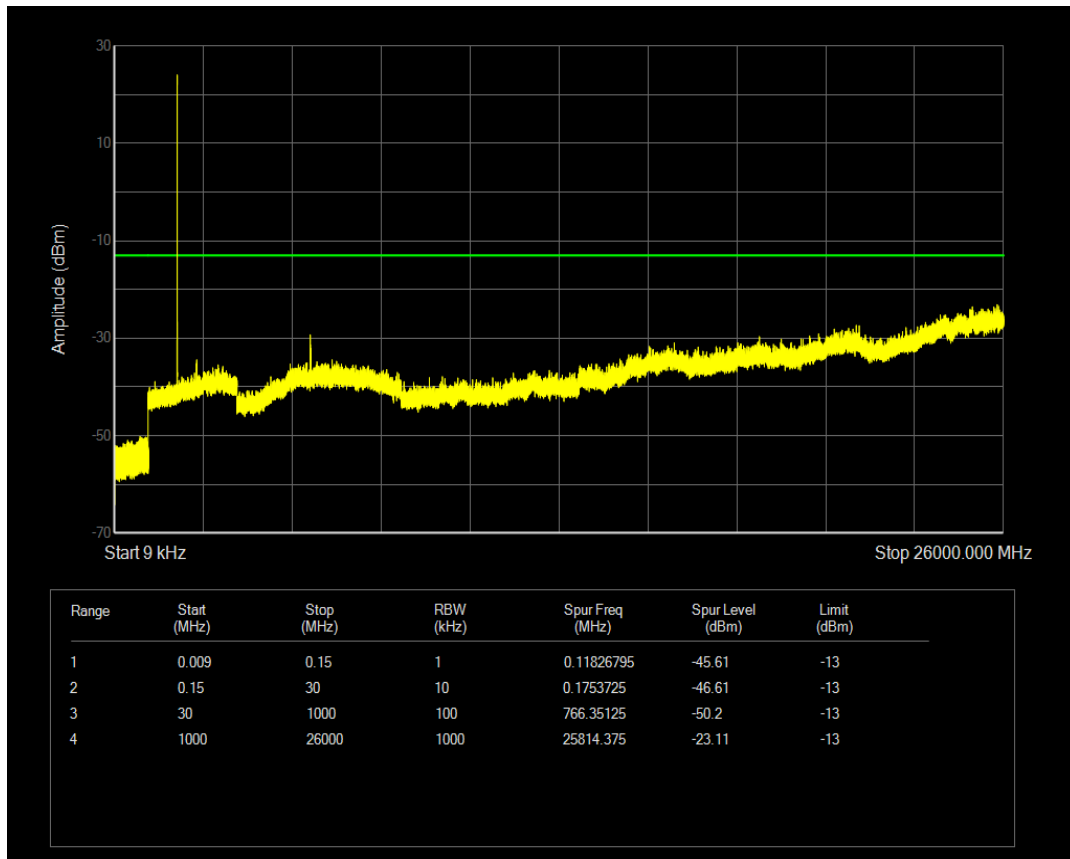
Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0



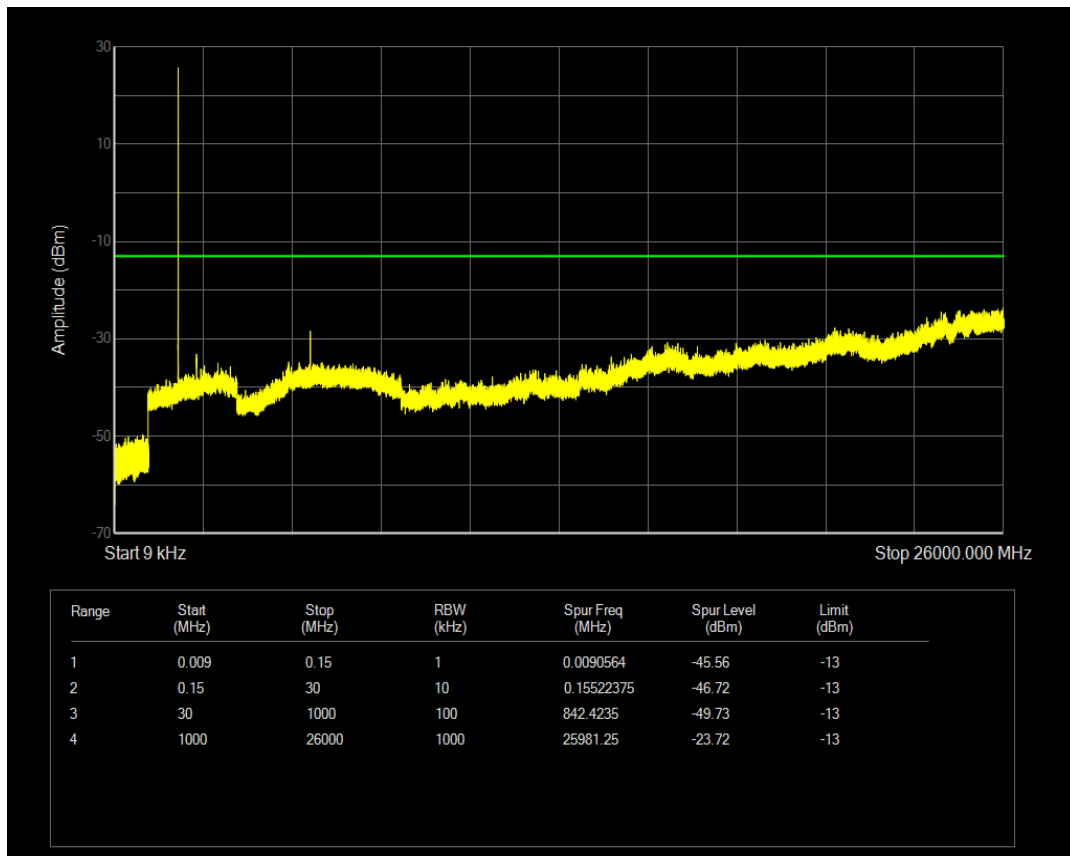
## Appendix 6. Out-of-band emissions

| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Spur Freq<br>(MHz) | Spur Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|--------------------|---------------------|----------------|---------|
| Band2 | 1.4                | 18607         | 6          | #0             | QPSK       | 25581.25           | -23.23              | -13            | PASS    |
| Band2 | 1.4                | 18607         | 6          | #0             | 16QAM      | 25814.38           | -23.11              | -13            | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | QPSK       | 25959.38           | -23.46              | -13            | PASS    |
| Band2 | 1.4                | 18900         | 6          | #0             | 16QAM      | 25981.25           | -23.72              | -13            | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | QPSK       | 25668.75           | -22.86              | -13            | PASS    |
| Band2 | 1.4                | 19193         | 6          | #0             | 16QAM      | 25008.75           | -23.56              | -13            | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | QPSK       | 25618.75           | -23.43              | -13            | PASS    |
| Band2 | 3                  | 18615         | 15         | #0             | 16QAM      | 25795.63           | -22.78              | -13            | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | QPSK       | 25994.38           | -22.96              | -13            | PASS    |
| Band2 | 3                  | 18900         | 15         | #0             | 16QAM      | 25770.00           | -23.62              | -13            | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | QPSK       | 25638.13           | -23.50              | -13            | PASS    |
| Band2 | 3                  | 19185         | 15         | #0             | 16QAM      | 25803.13           | -22.83              | -13            | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | QPSK       | 25997.50           | -23.31              | -13            | PASS    |
| Band2 | 5                  | 18625         | 25         | #0             | 16QAM      | 25851.88           | -23.41              | -13            | PASS    |
| Band2 | 5                  | 18900         | 25         | #0             | QPSK       | 25980.00           | -23.63              | -13            | PASS    |
| Band2 | 5                  | 18900         | 25         | #0             | 16QAM      | 25451.25           | -22.99              | -13            | PASS    |
| Band2 | 5                  | 19175         | 25         | #0             | QPSK       | 25148.13           | -23.40              | -13            | PASS    |
| Band2 | 5                  | 19175         | 25         | #0             | 16QAM      | 25307.50           | -23.22              | -13            | PASS    |
| Band2 | 10                 | 18650         | 50         | #0             | QPSK       | 24792.50           | -23.75              | -13            | PASS    |
| Band2 | 10                 | 18900         | 50         | #0             | QPSK       | 25788.13           | -23.29              | -13            | PASS    |
| Band2 | 10                 | 19150         | 50         | #0             | QPSK       | 25808.13           | -23.56              | -13            | PASS    |
| Band2 | 15                 | 18675         | 75         | #0             | QPSK       | 25828.75           | -22.97              | -13            | PASS    |
| Band2 | 15                 | 18900         | 75         | #0             | QPSK       | 25118.13           | -23.50              | -13            | PASS    |
| Band2 | 15                 | 19125         | 75         | #0             | QPSK       | 25766.25           | -23.43              | -13            | PASS    |
| Band2 | 20                 | 18700         | 100        | #0             | QPSK       | 25676.88           | -23.18              | -13            | PASS    |
| Band2 | 20                 | 18900         | 100        | #0             | QPSK       | 25777.50           | -23.12              | -13            | PASS    |
| Band2 | 20                 | 19100         | 100        | #0             | QPSK       | 24659.38           | -23.76              | -13            | PASS    |

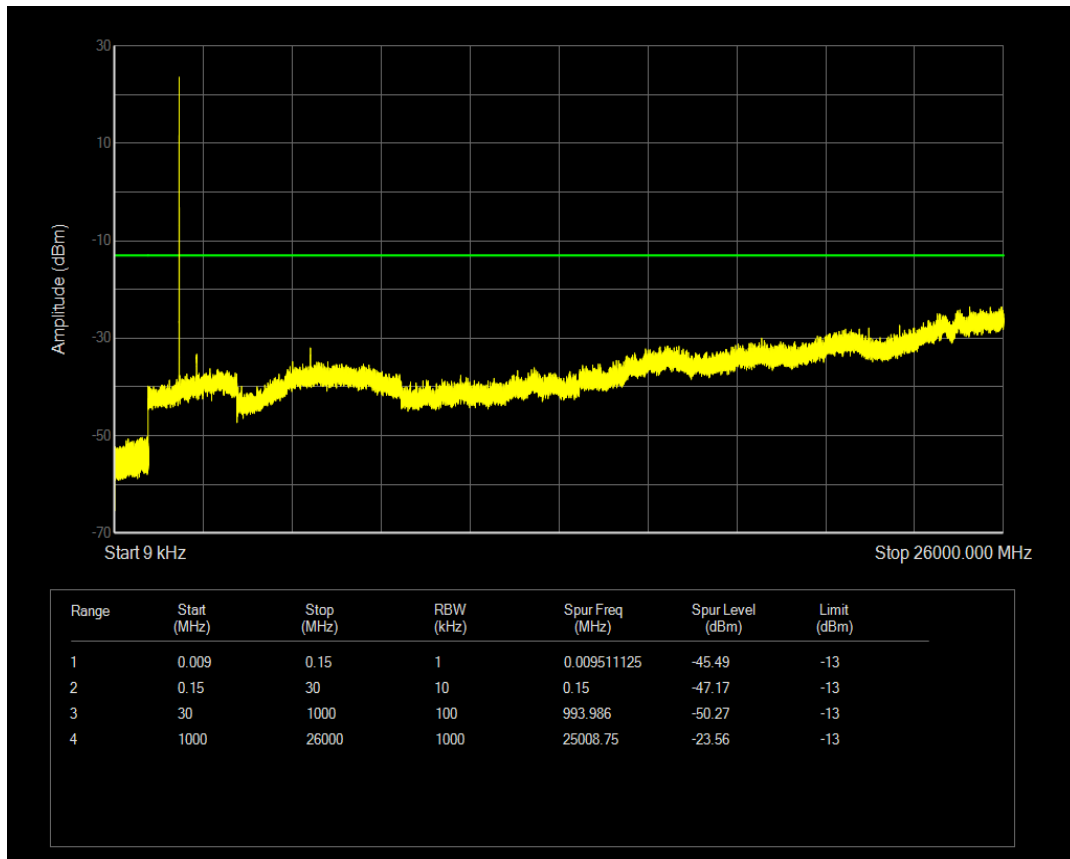
Band2 16QAM BW=1.4MHz Channel=18607 RB Size=6 Position=#0



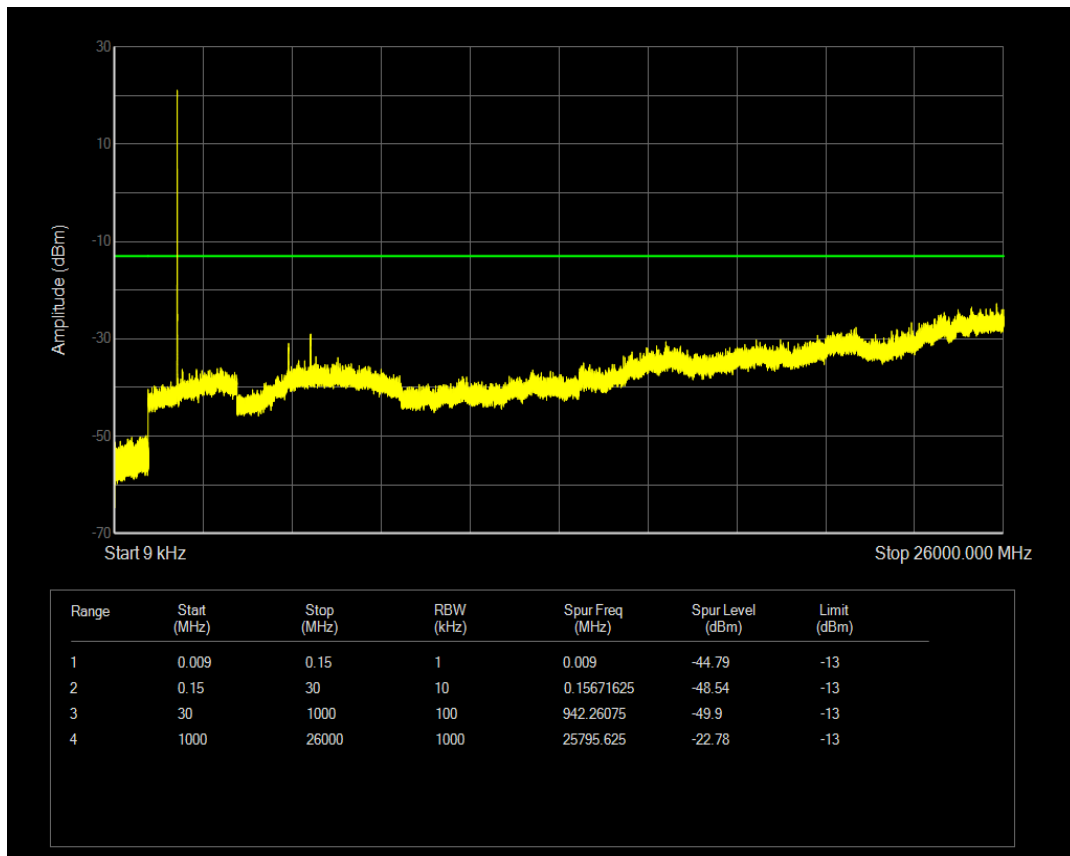
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=6 Position=#0



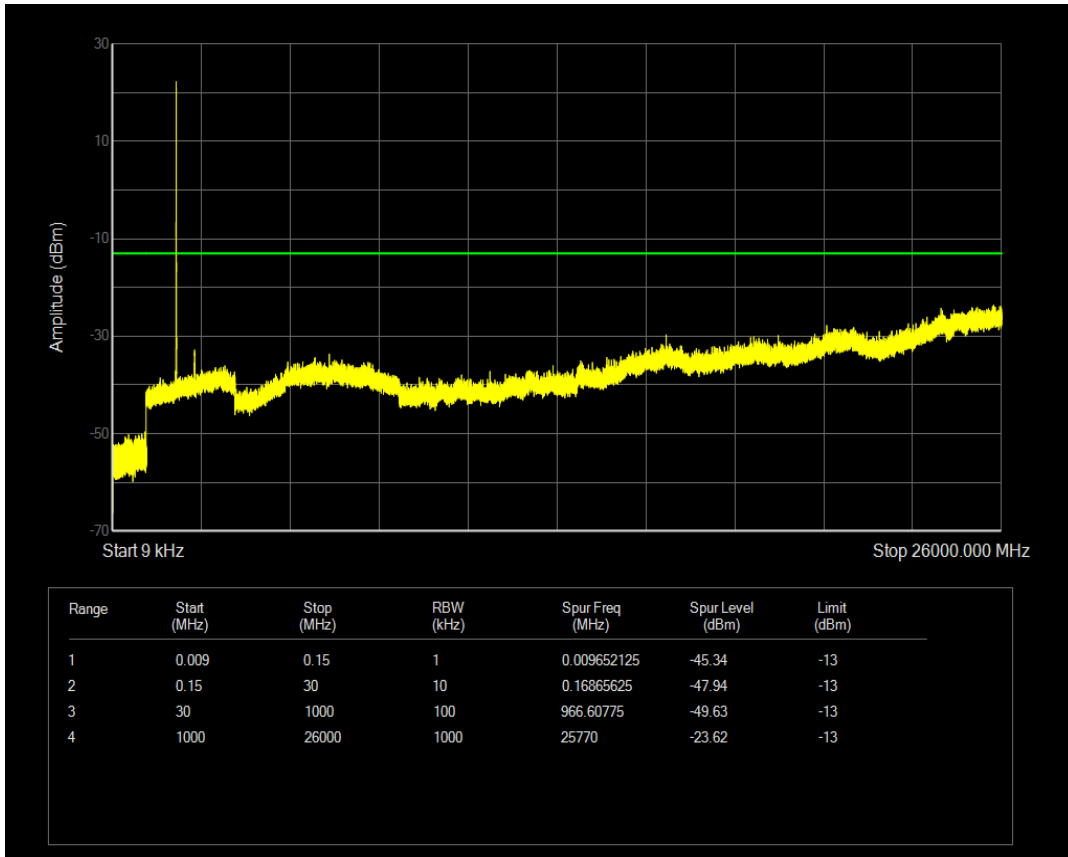
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=6 Position=#0



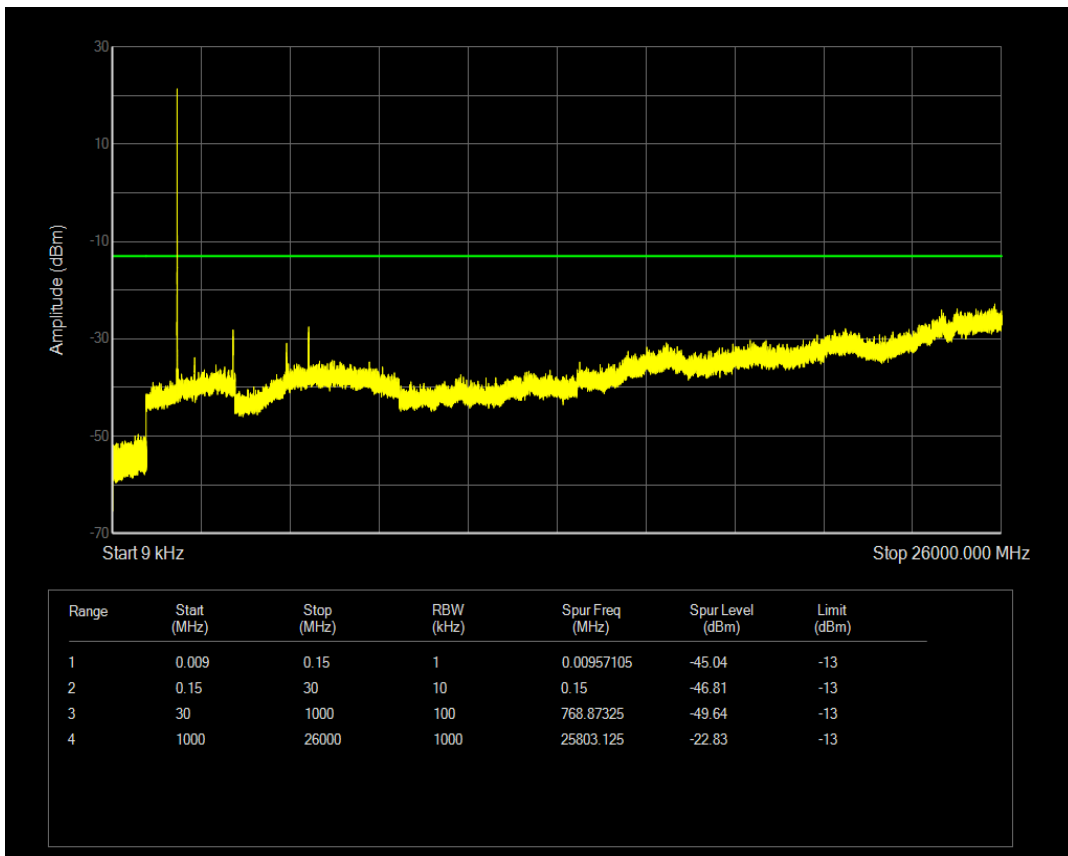
Band2 16QAM BW=3MHz Channel=18615 RB Size=15 Position=#0



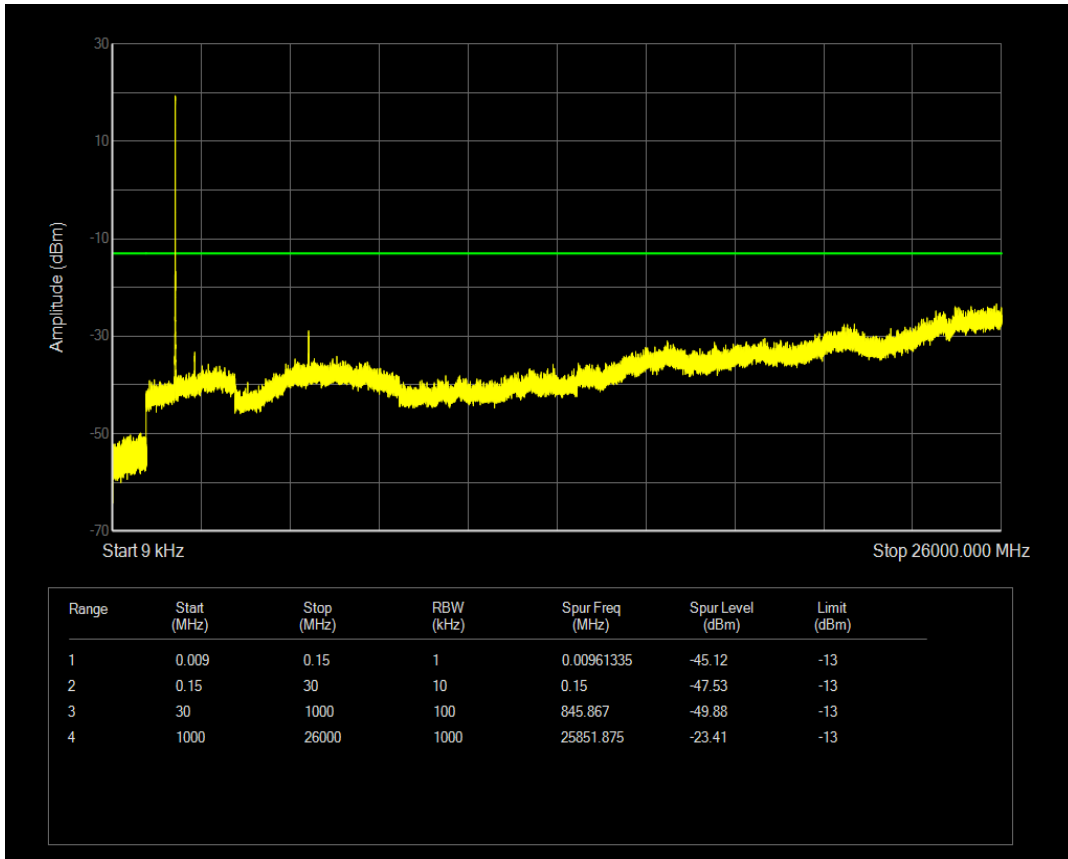
Band2 16QAM BW=3MHz Channel=18900 RB Size=15 Position=#0



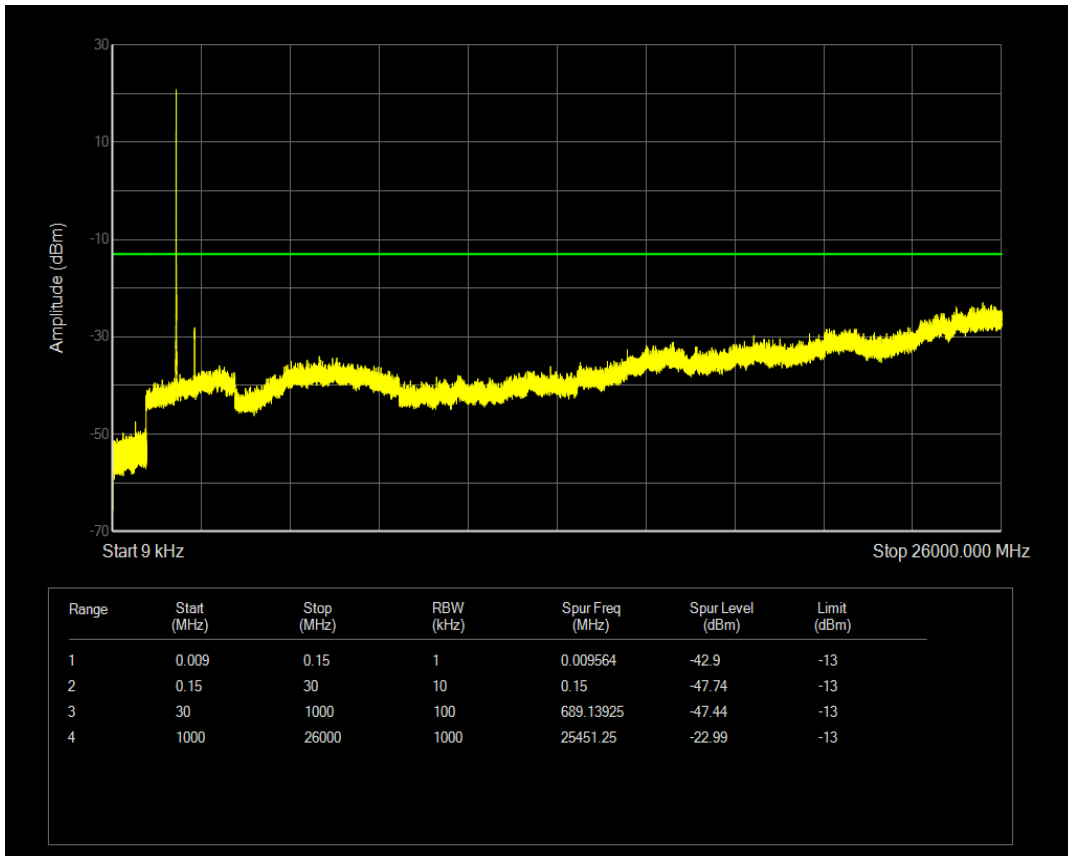
Band2 16QAM BW=3MHz Channel=19185 RB Size=15 Position=#0



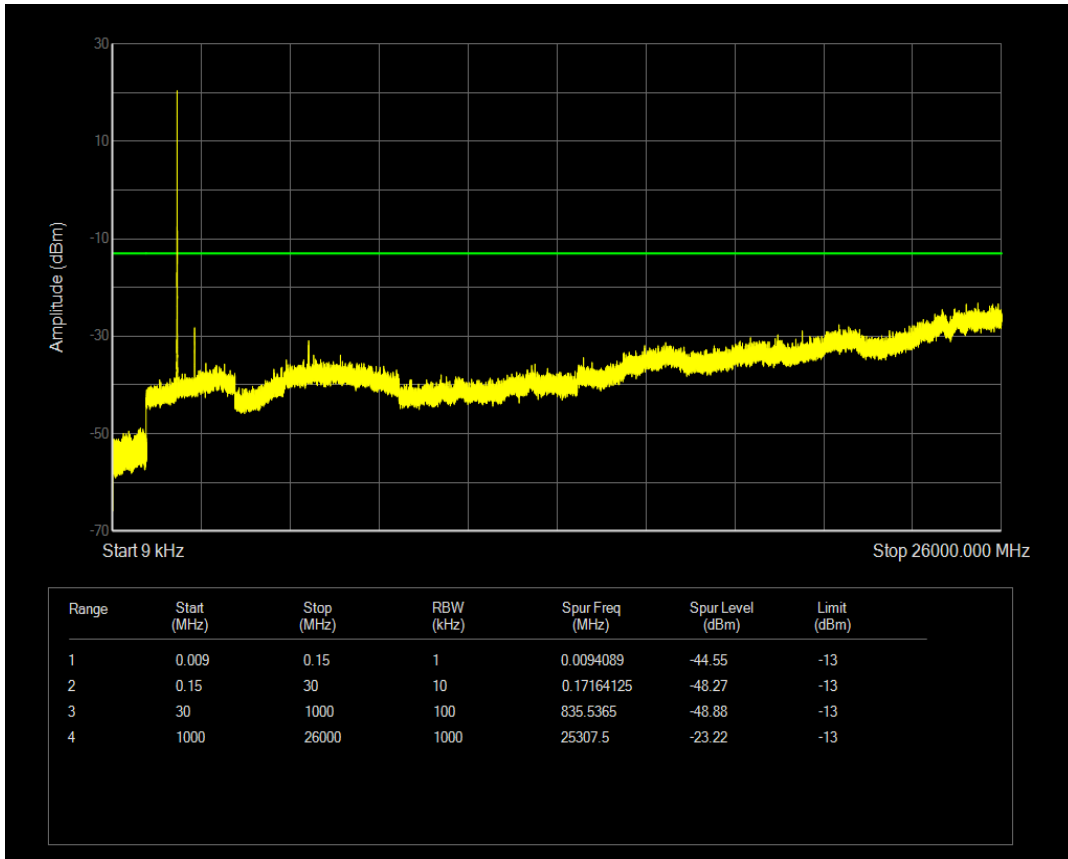
Band2 16QAM BW=5MHz Channel=18625 RB Size=25 Position=#0



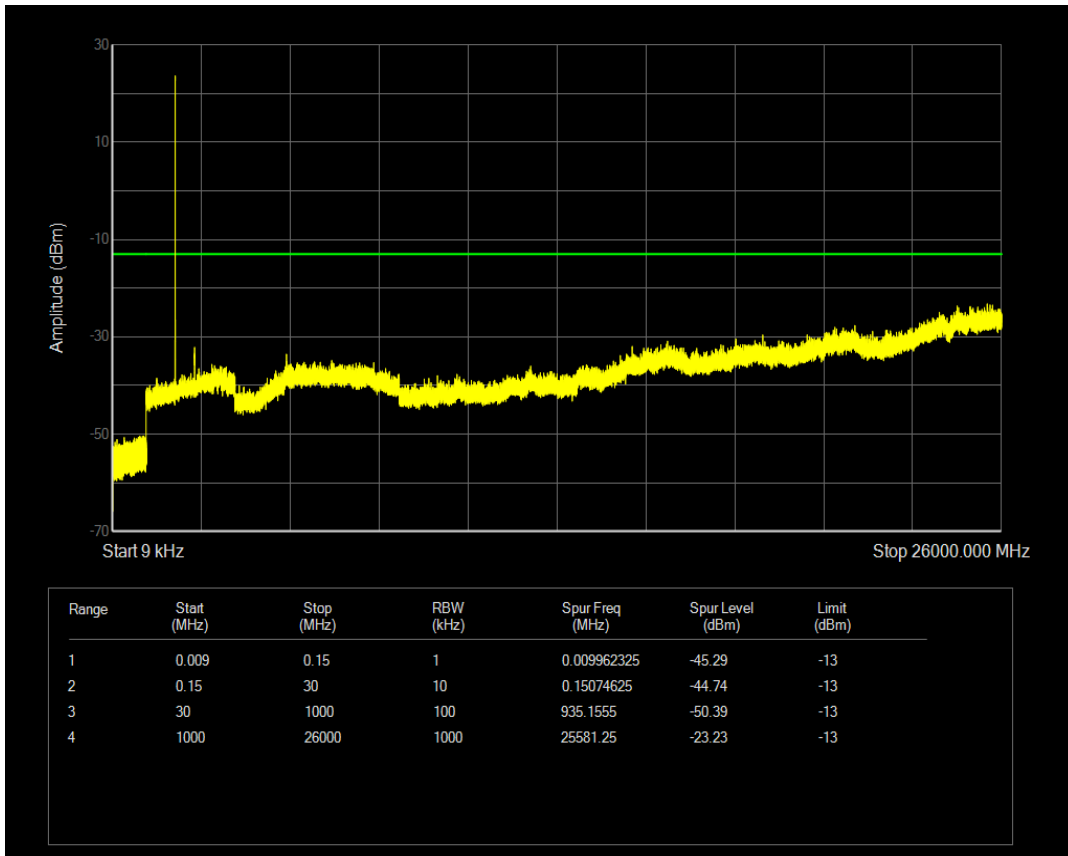
Band2 16QAM BW=5MHz Channel=18900 RB Size=25 Position=#0



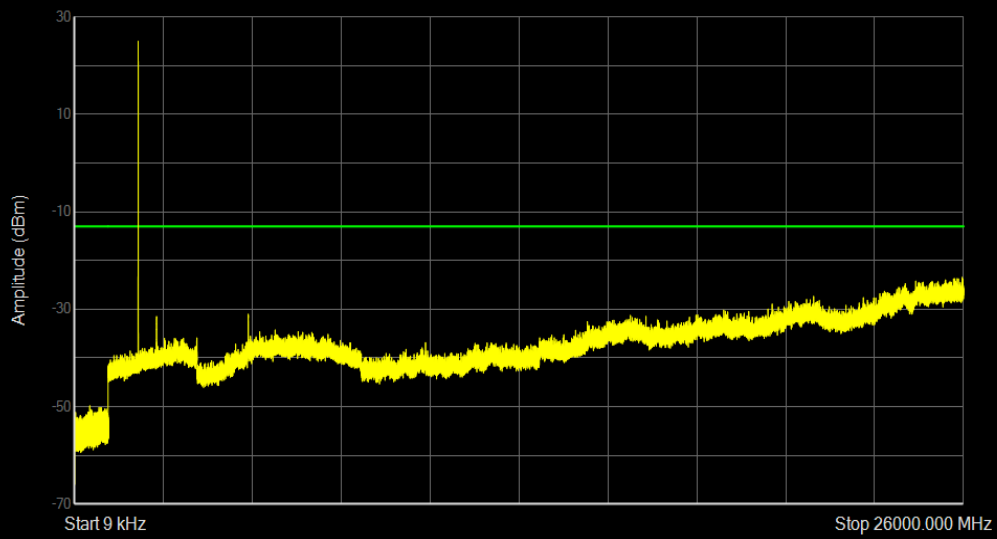
Band2 16QAM BW=5MHz Channel=19175 RB Size=25 Position=#0



Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

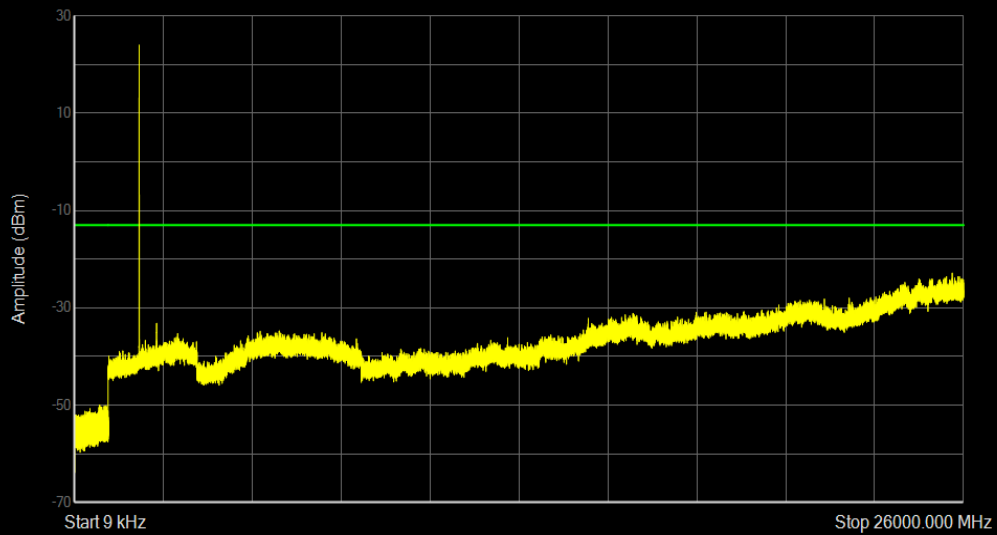


Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0



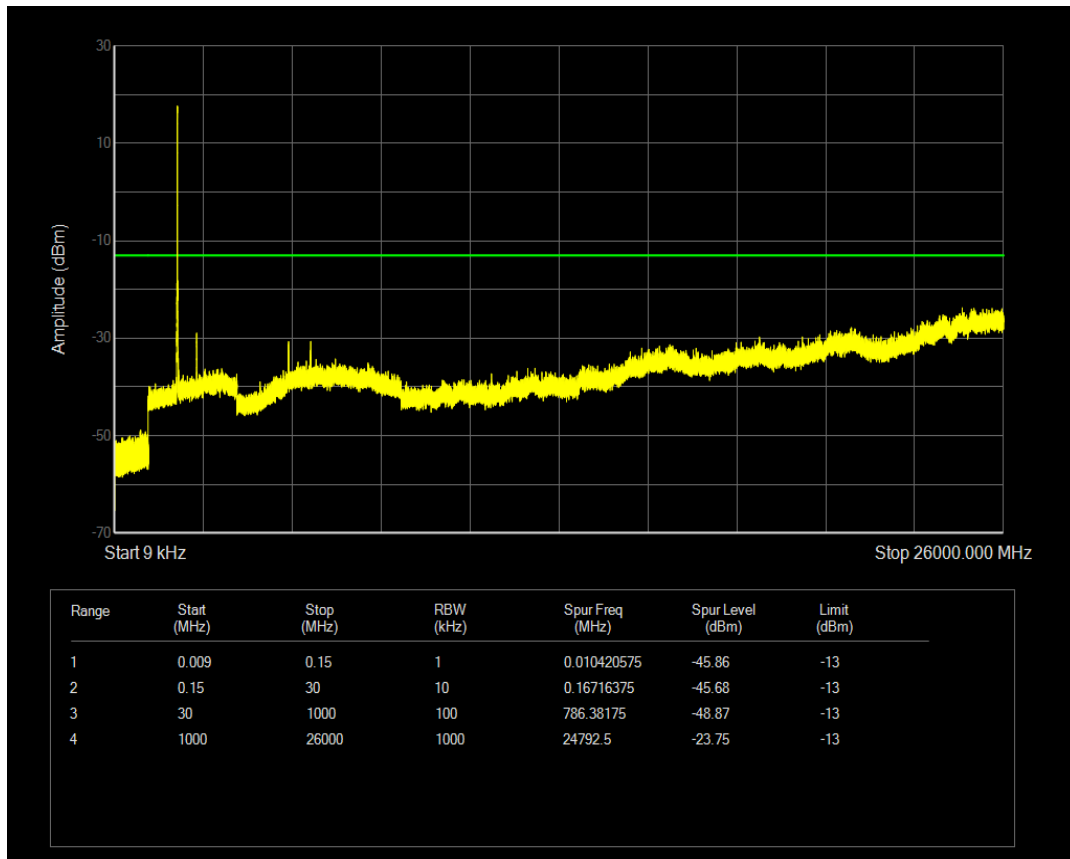
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009           | -43.8            | -13         |
| 2     | 0.15        | 30         | 10        | 0.16567125      | -48.24           | -13         |
| 3     | 30          | 1000       | 100       | 465.9665        | -49.86           | -13         |
| 4     | 1000        | 26000      | 1000      | 25959.375       | -23.46           | -13         |

Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

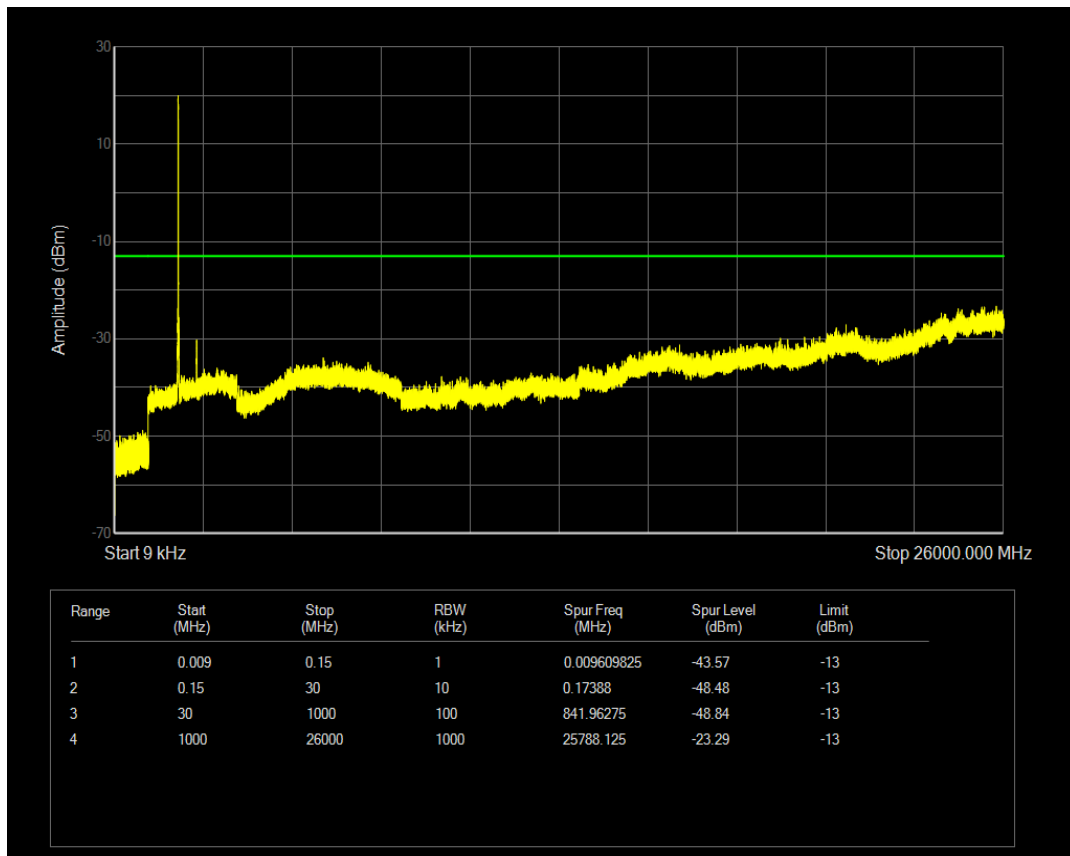


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009447        | -44.48           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15373125      | -47.15           | -13         |
| 3     | 30          | 1000       | 100       | 753.45025       | -49.97           | -13         |
| 4     | 1000        | 26000      | 1000      | 25668.75        | -22.86           | -13         |

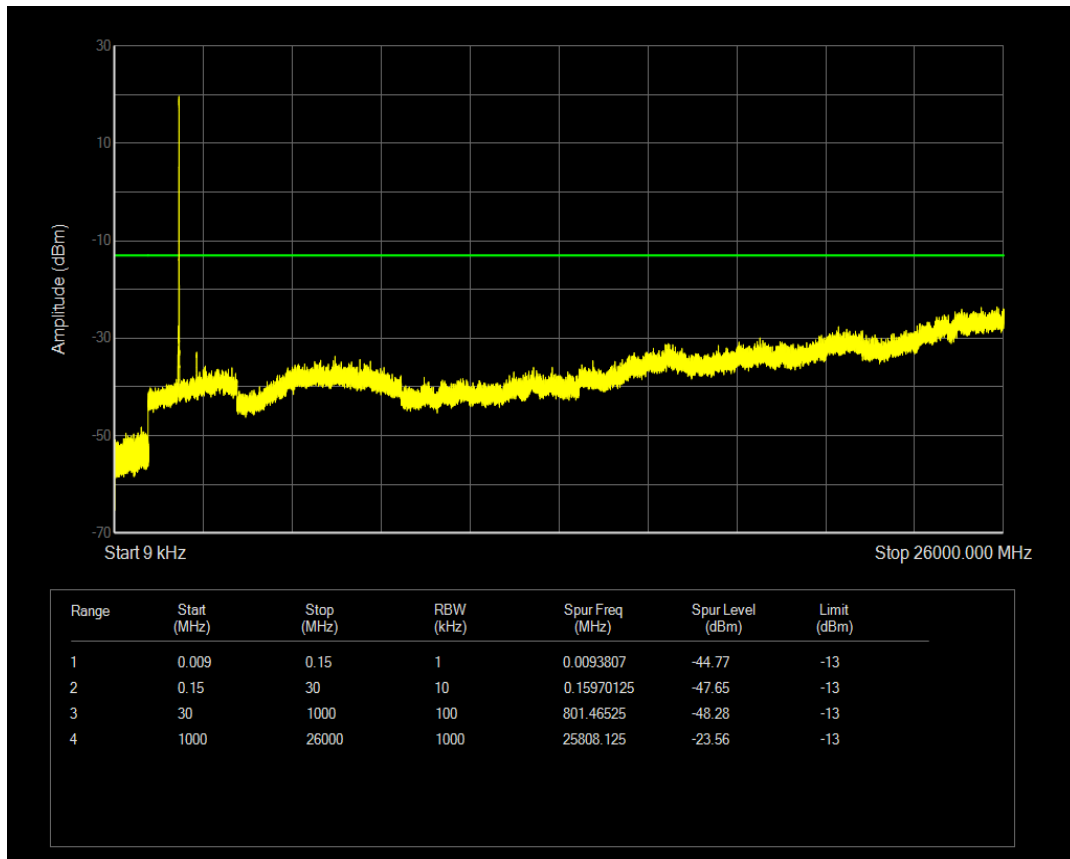
Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0



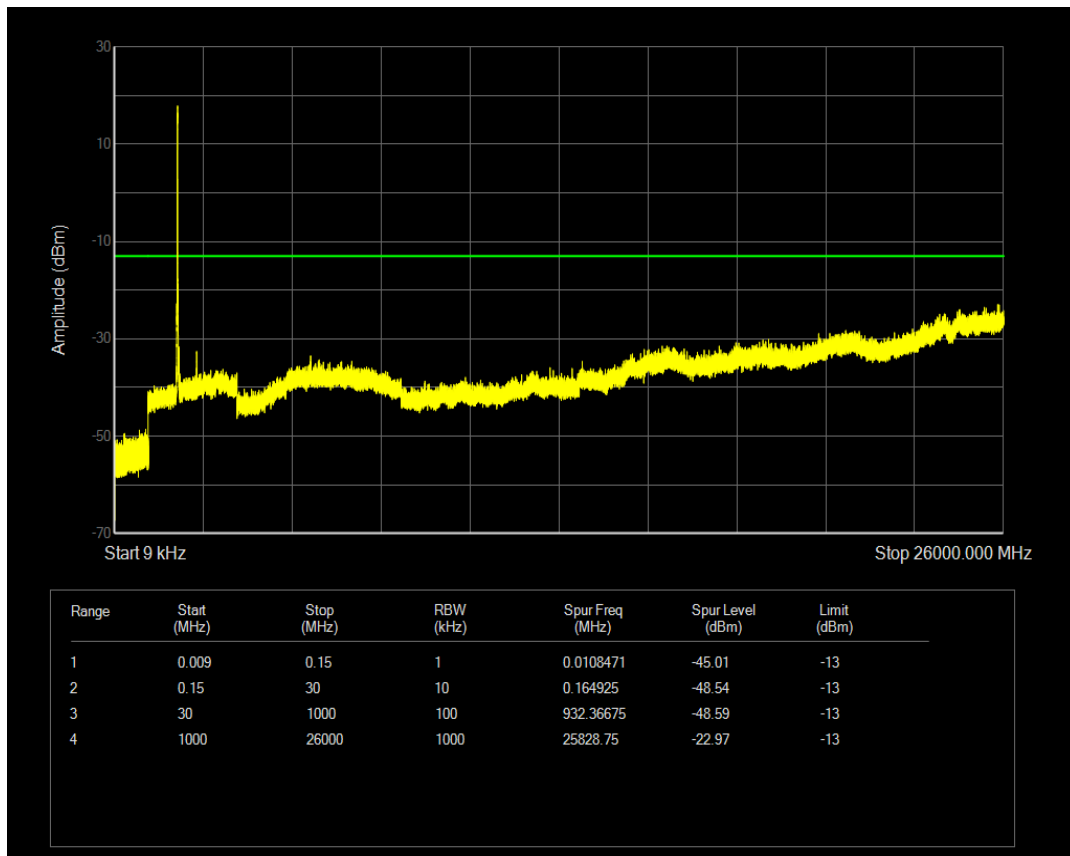
Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0



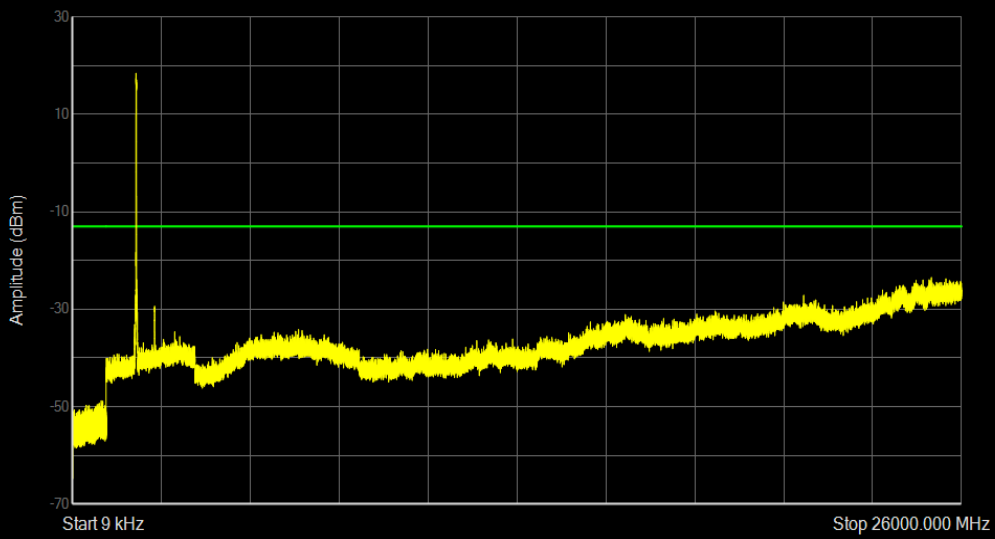
Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0



Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0

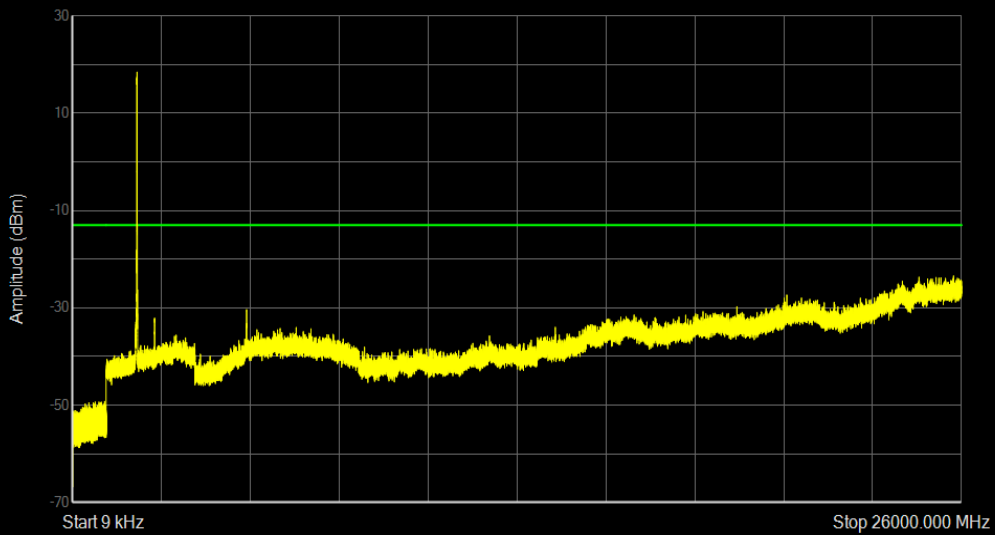


Band2 QPSK BW=15MHz Channel=18900 RB Size=75 Position=#0



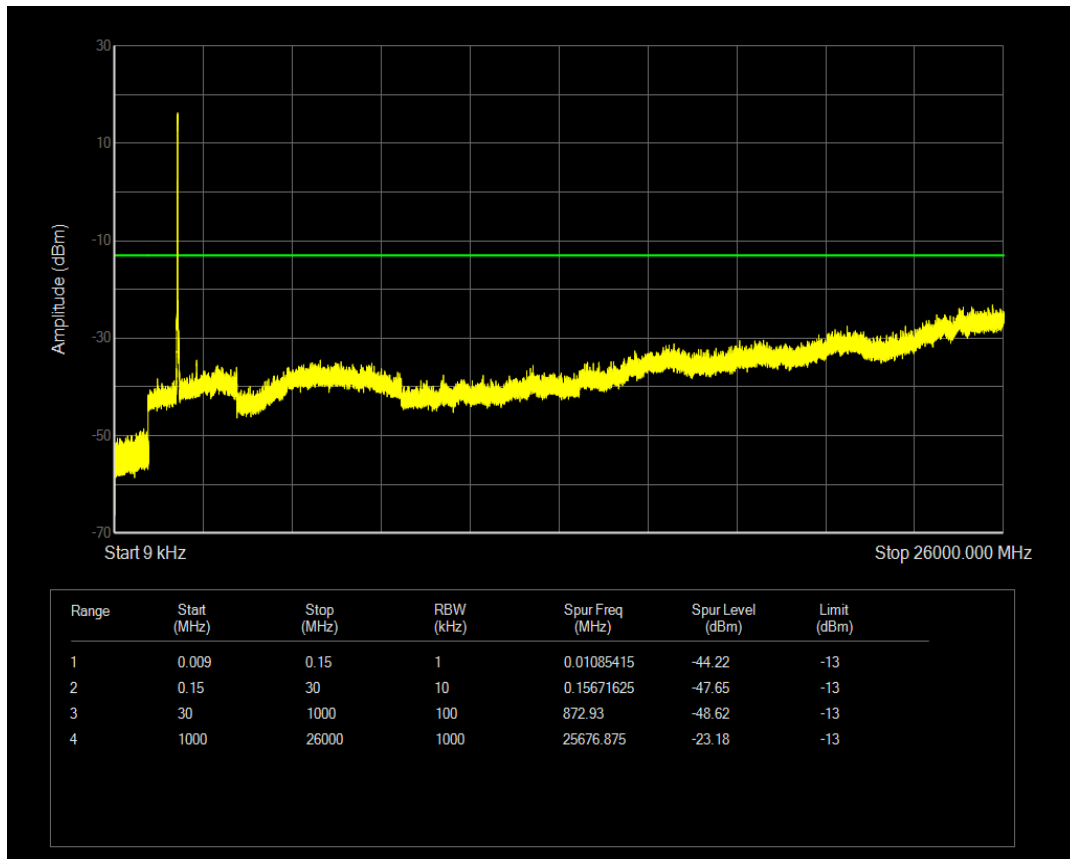
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009814275     | -44.46           | -13         |
| 2     | 0.15        | 30         | 10        | 0.1514925       | -46.36           | -13         |
| 3     | 30          | 1000       | 100       | 857.62825       | -48.79           | -13         |
| 4     | 1000        | 26000      | 1000      | 25118.125       | -23.5            | -13         |

Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0

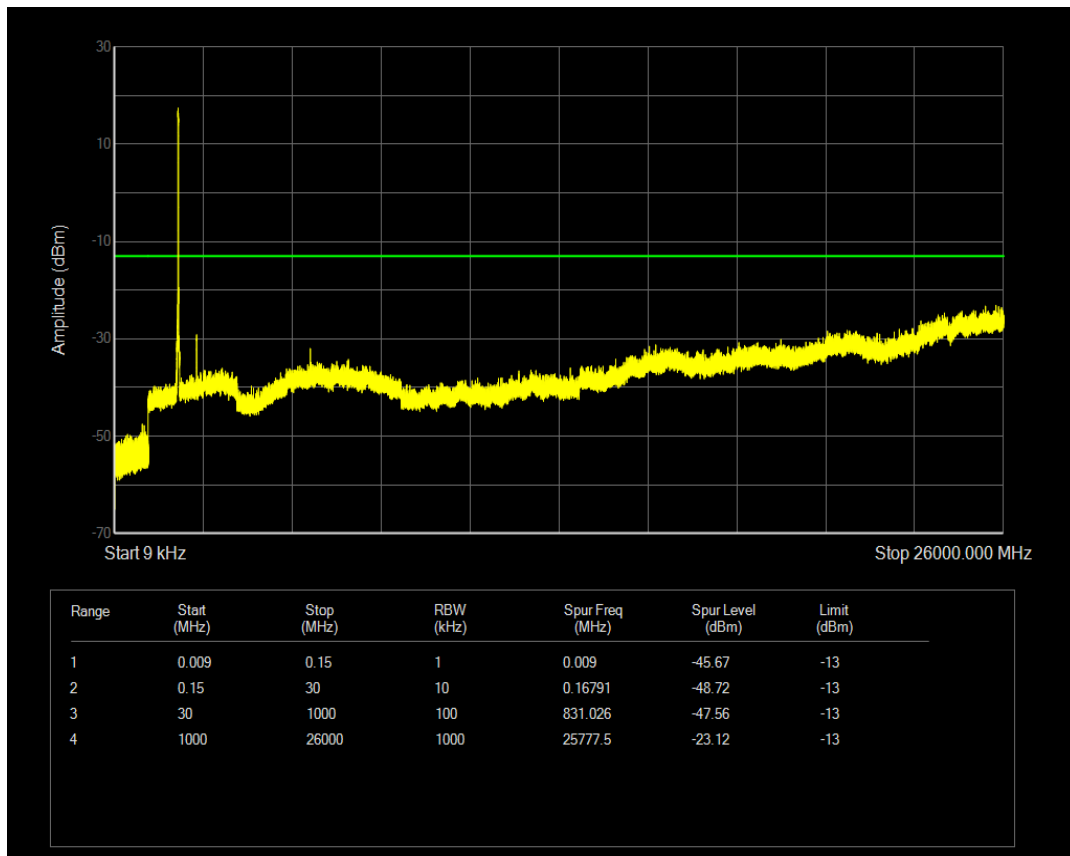


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.11526465      | -45.72           | -13         |
| 2     | 0.15        | 30         | 10        | 0.1544775       | -48.23           | -13         |
| 3     | 30          | 1000       | 100       | 957.53825       | -49.24           | -13         |
| 4     | 1000        | 26000      | 1000      | 25766.25        | -23.43           | -13         |

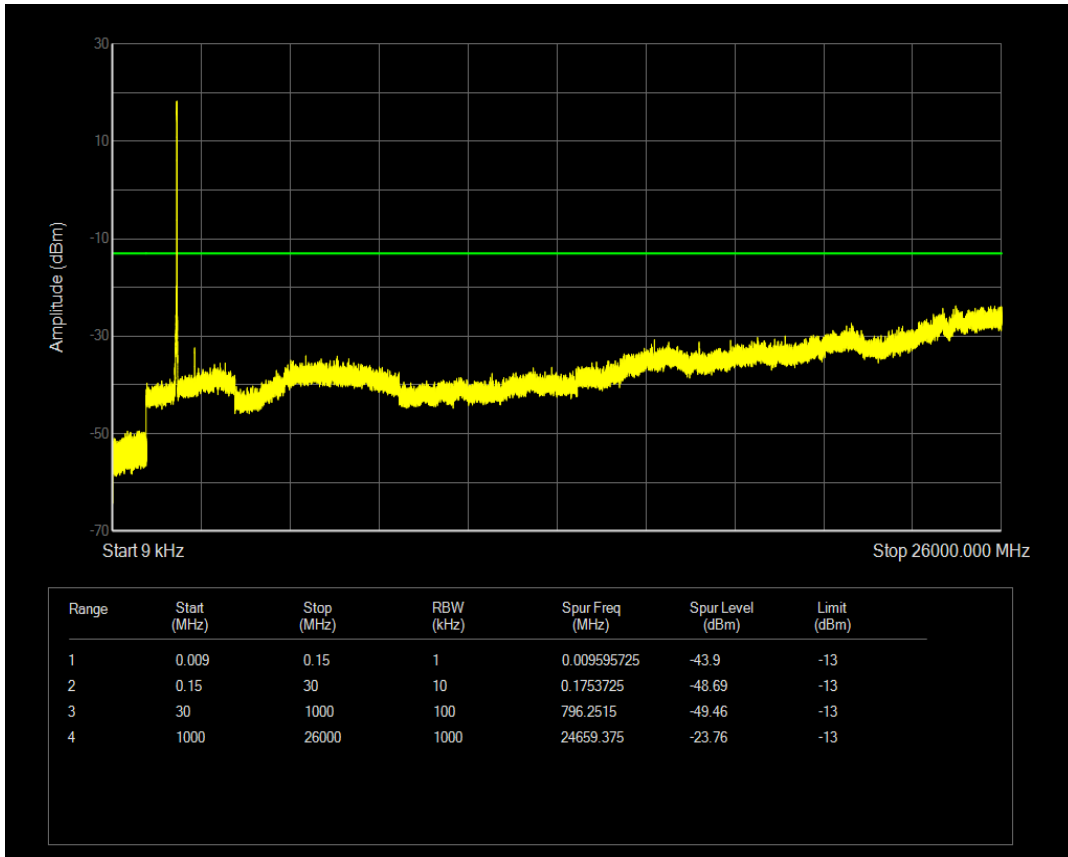
Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0



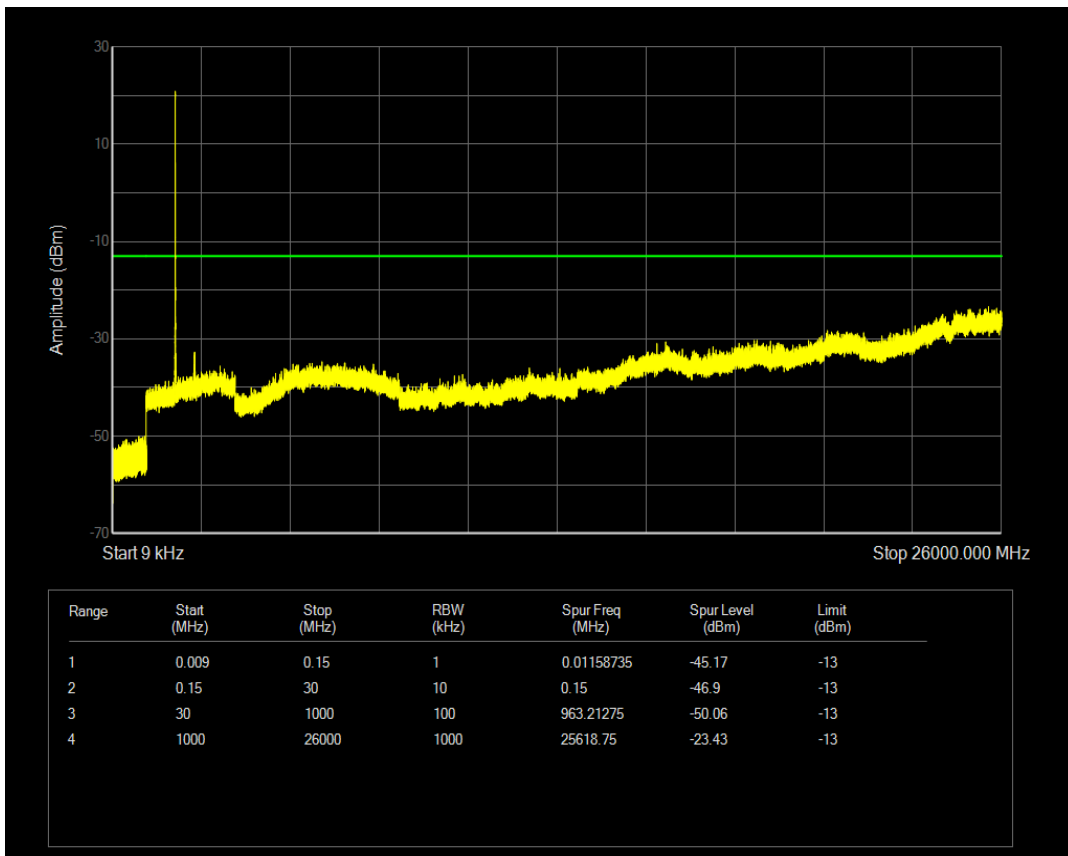
Band2 QPSK BW=20MHz Channel=18900 RB Size=100 Position=#0



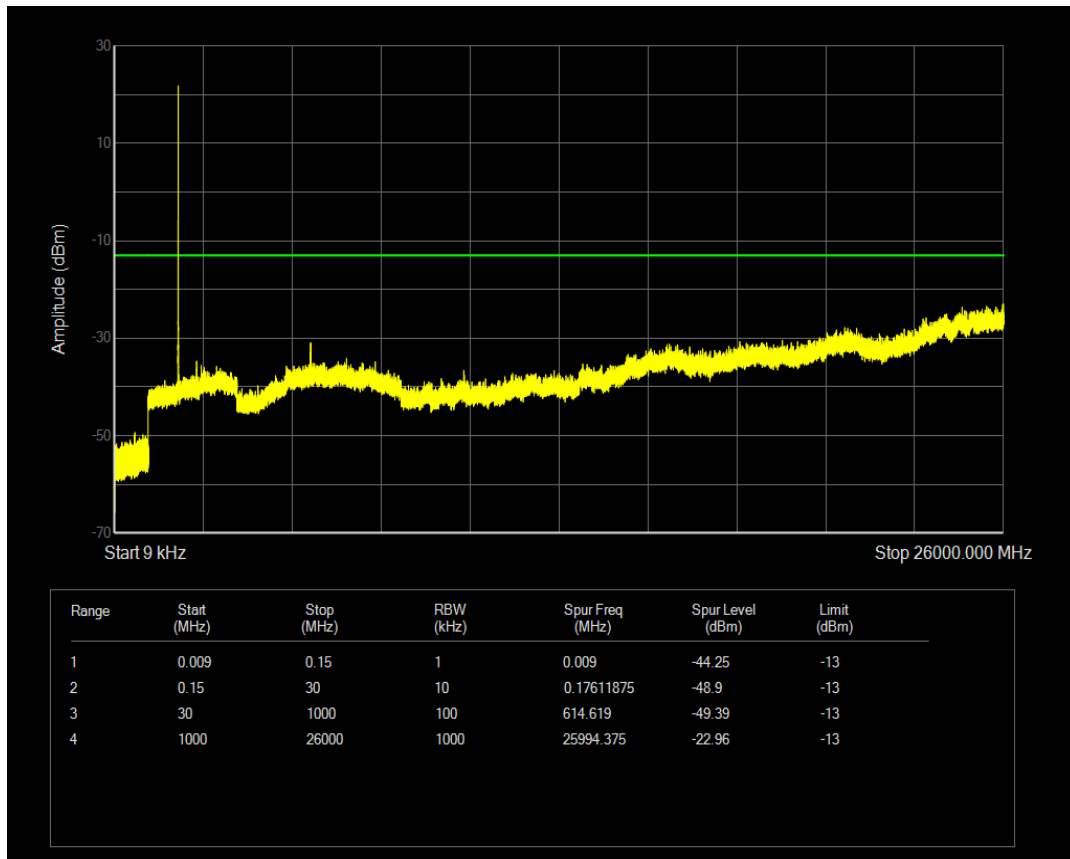
Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0



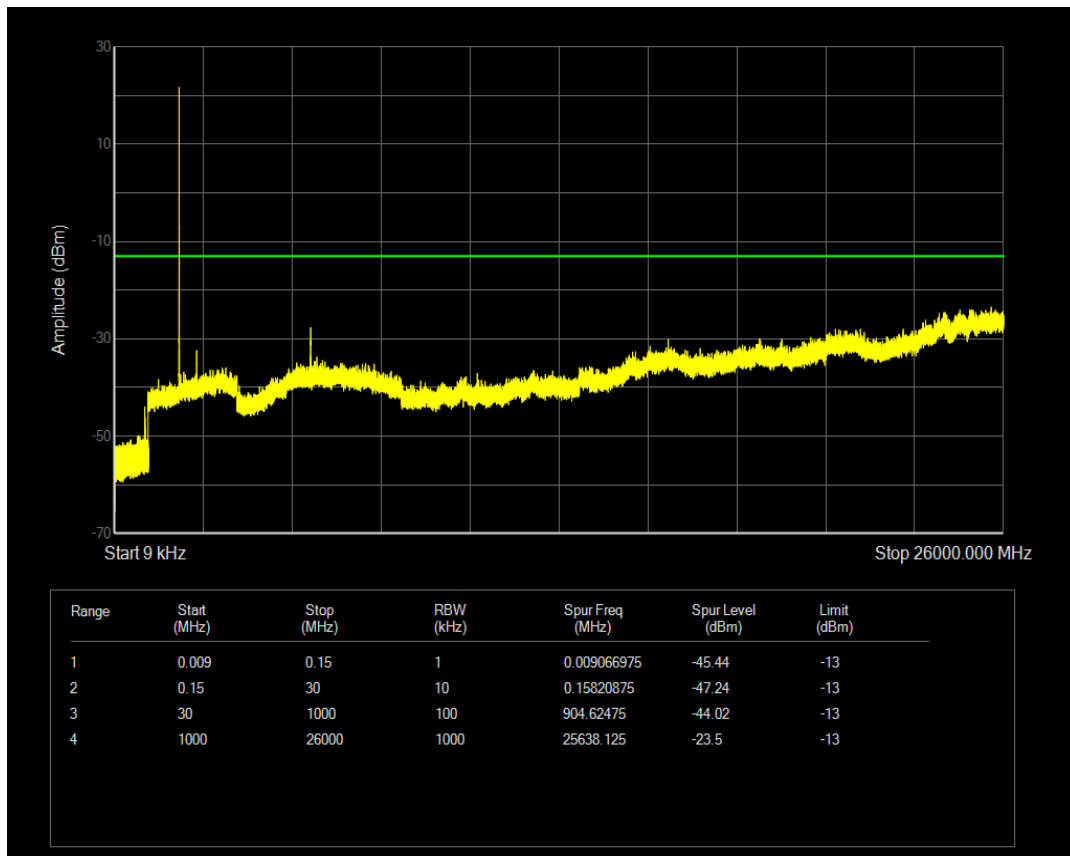
Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0



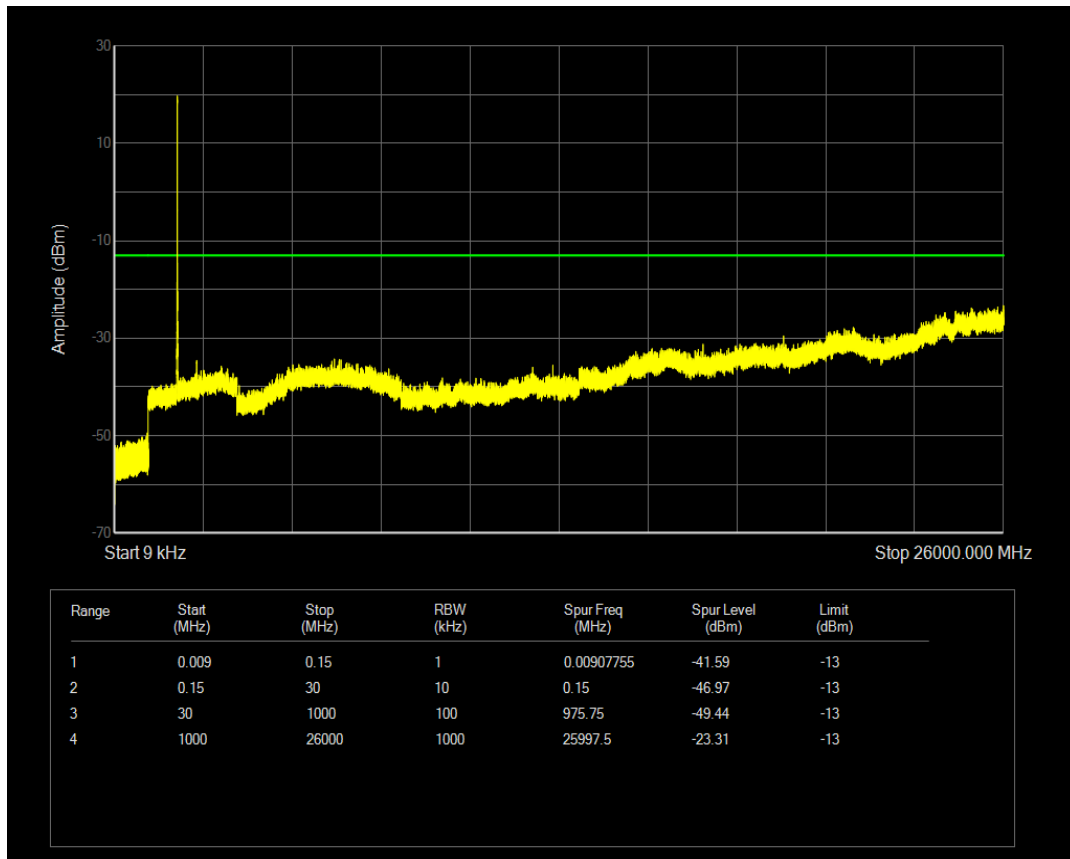
Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0



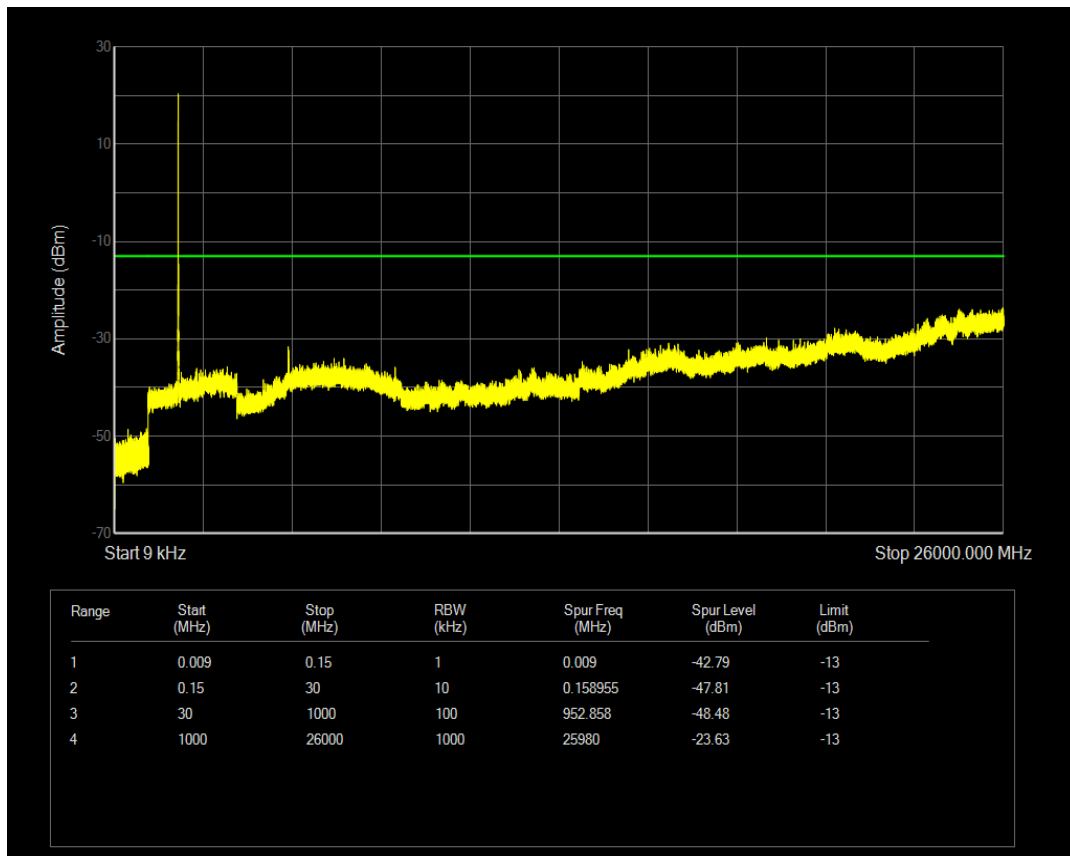
Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0



Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0



Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0



Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0

