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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1.1 Test Result Ant9

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band38 | 5MHz      | QPSK       | L       | 1RB#0            | 21.89       | 24.89     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | L       | 1RB#12           | 22.13       | 25.13     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | L       | 1RB#24           | 22.19       | 25.19     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | L       | 25RB#0           | 21.45       | 24.45     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | M       | 1RB#0            | 22.37       | 25.37     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | M       | 1RB#12           | 22.54       | 25.54     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | M       | 1RB#24           | 22.79       | 25.79     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | M       | 25RB#0           | 21.61       | 24.61     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | H       | 1RB#0            | 23.26       | 26.26     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | H       | 1RB#12           | 23.09       | 26.09     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | H       | 1RB#24           | 22.88       | 25.88     | 33         | PASS    |
| Band38 | 5MHz      | QPSK       | H       | 25RB#0           | 21.99       | 24.99     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | L       | 1RB#0            | 20.23       | 23.23     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | L       | 1RB#12           | 20.62       | 23.62     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | L       | 1RB#24           | 20.66       | 23.66     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | L       | 25RB#0           | 20.55       | 23.55     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | M       | 1RB#0            | 21.57       | 24.57     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | M       | 1RB#12           | 21.21       | 24.21     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | M       | 1RB#24           | 21.16       | 24.16     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | M       | 25RB#0           | 20.56       | 23.56     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | H       | 1RB#0            | 21.31       | 24.31     | 33         | PASS    |
| Band38 | 5MHz      | 16QAM      | H       | 1RB#12           | 21.5        | 24.5      | 33         | PASS    |

|        |       |       |   |        |       |       |    |      |
|--------|-------|-------|---|--------|-------|-------|----|------|
| Band38 | 5MHz  | 16QAM | H | 1RB#24 | 21.3  | 24.3  | 33 | PASS |
| Band38 | 5MHz  | 16QAM | H | 25RB#0 | 21.16 | 24.16 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | L | 1RB#0  | 19.92 | 22.92 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | L | 1RB#12 | 20.49 | 23.49 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | L | 1RB#24 | 19.89 | 22.89 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | L | 25RB#0 | 20.38 | 23.38 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | M | 1RB#0  | 20.64 | 23.64 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | M | 1RB#12 | 20.9  | 23.9  | 33 | PASS |
| Band38 | 5MHz  | 64QAM | M | 1RB#24 | 20.72 | 23.72 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | M | 25RB#0 | 20.74 | 23.74 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | H | 1RB#0  | 20.92 | 23.92 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | H | 1RB#12 | 21.29 | 24.29 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | H | 1RB#24 | 20.91 | 23.91 | 33 | PASS |
| Band38 | 5MHz  | 64QAM | H | 25RB#0 | 20.83 | 23.83 | 33 | PASS |
| Band38 | 10MHz | QPSK  | L | 1RB#0  | 22.18 | 25.18 | 33 | PASS |
| Band38 | 10MHz | QPSK  | L | 1RB#24 | 22.59 | 25.59 | 33 | PASS |
| Band38 | 10MHz | QPSK  | L | 1RB#49 | 22.04 | 25.04 | 33 | PASS |
| Band38 | 10MHz | QPSK  | L | 50RB#0 | 21.41 | 24.41 | 33 | PASS |
| Band38 | 10MHz | QPSK  | M | 1RB#0  | 22.64 | 25.64 | 33 | PASS |
| Band38 | 10MHz | QPSK  | M | 1RB#24 | 22.74 | 25.74 | 33 | PASS |
| Band38 | 10MHz | QPSK  | M | 1RB#49 | 22.84 | 25.84 | 33 | PASS |
| Band38 | 10MHz | QPSK  | M | 50RB#0 | 21.75 | 24.75 | 33 | PASS |
| Band38 | 10MHz | QPSK  | H | 1RB#0  | 23.26 | 26.26 | 33 | PASS |
| Band38 | 10MHz | QPSK  | H | 1RB#24 | 23.09 | 26.09 | 33 | PASS |
| Band38 | 10MHz | QPSK  | H | 1RB#49 | 22.73 | 25.73 | 33 | PASS |

|        |       |       |   |        |       |       |    |      |
|--------|-------|-------|---|--------|-------|-------|----|------|
| Band38 | 10MHz | QPSK  | H | 50RB#0 | 22.02 | 25.02 | 33 | PASS |
| Band38 | 10MHz | 16QAM | L | 1RB#0  | 20.58 | 23.58 | 33 | PASS |
| Band38 | 10MHz | 16QAM | L | 1RB#24 | 20.72 | 23.72 | 33 | PASS |
| Band38 | 10MHz | 16QAM | L | 1RB#49 | 20.59 | 23.59 | 33 | PASS |
| Band38 | 10MHz | 16QAM | L | 50RB#0 | 20.64 | 23.64 | 33 | PASS |
| Band38 | 10MHz | 16QAM | M | 1RB#0  | 21.1  | 24.1  | 33 | PASS |
| Band38 | 10MHz | 16QAM | M | 1RB#24 | 21.31 | 24.31 | 33 | PASS |
| Band38 | 10MHz | 16QAM | M | 1RB#49 | 20.83 | 23.83 | 33 | PASS |
| Band38 | 10MHz | 16QAM | M | 50RB#0 | 20.78 | 23.78 | 33 | PASS |
| Band38 | 10MHz | 16QAM | H | 1RB#0  | 21.25 | 24.25 | 33 | PASS |
| Band38 | 10MHz | 16QAM | H | 1RB#24 | 21.59 | 24.59 | 33 | PASS |
| Band38 | 10MHz | 16QAM | H | 1RB#49 | 21.28 | 24.28 | 33 | PASS |
| Band38 | 10MHz | 16QAM | H | 50RB#0 | 21.04 | 24.04 | 33 | PASS |
| Band38 | 10MHz | 64QAM | L | 1RB#0  | 20.11 | 23.11 | 33 | PASS |
| Band38 | 10MHz | 64QAM | L | 1RB#24 | 20.21 | 23.21 | 33 | PASS |
| Band38 | 10MHz | 64QAM | L | 1RB#49 | 20.36 | 23.36 | 33 | PASS |
| Band38 | 10MHz | 64QAM | L | 50RB#0 | 20.38 | 23.38 | 33 | PASS |
| Band38 | 10MHz | 64QAM | M | 1RB#0  | 20.48 | 23.48 | 33 | PASS |
| Band38 | 10MHz | 64QAM | M | 1RB#24 | 20.68 | 23.68 | 33 | PASS |
| Band38 | 10MHz | 64QAM | M | 1RB#49 | 20.66 | 23.66 | 33 | PASS |
| Band38 | 10MHz | 64QAM | M | 50RB#0 | 20.72 | 23.72 | 33 | PASS |
| Band38 | 10MHz | 64QAM | H | 1RB#0  | 20.52 | 23.52 | 33 | PASS |
| Band38 | 10MHz | 64QAM | H | 1RB#24 | 21.19 | 24.19 | 33 | PASS |
| Band38 | 10MHz | 64QAM | H | 1RB#49 | 20.46 | 23.46 | 33 | PASS |
| Band38 | 10MHz | 64QAM | H | 50RB#0 | 20.98 | 23.98 | 33 | PASS |

|        |       |       |   |        |       |       |    |      |
|--------|-------|-------|---|--------|-------|-------|----|------|
| Band38 | 15MHz | QPSK  | L | 1RB#0  | 21.87 | 24.87 | 33 | PASS |
| Band38 | 15MHz | QPSK  | L | 1RB#38 | 22.43 | 25.43 | 33 | PASS |
| Band38 | 15MHz | QPSK  | L | 1RB#74 | 22.18 | 25.18 | 33 | PASS |
| Band38 | 15MHz | QPSK  | L | 75RB#0 | 21.41 | 24.41 | 33 | PASS |
| Band38 | 15MHz | QPSK  | M | 1RB#0  | 22.25 | 25.25 | 33 | PASS |
| Band38 | 15MHz | QPSK  | M | 1RB#38 | 22.57 | 25.57 | 33 | PASS |
| Band38 | 15MHz | QPSK  | M | 1RB#74 | 22.7  | 25.7  | 33 | PASS |
| Band38 | 15MHz | QPSK  | M | 75RB#0 | 21.75 | 24.75 | 33 | PASS |
| Band38 | 15MHz | QPSK  | H | 1RB#0  | 22.91 | 25.91 | 33 | PASS |
| Band38 | 15MHz | QPSK  | H | 1RB#38 | 23.23 | 26.23 | 33 | PASS |
| Band38 | 15MHz | QPSK  | H | 1RB#74 | 22.87 | 25.87 | 33 | PASS |
| Band38 | 15MHz | QPSK  | H | 75RB#0 | 22.09 | 25.09 | 33 | PASS |
| Band38 | 15MHz | 16QAM | L | 1RB#0  | 21.01 | 24.01 | 33 | PASS |
| Band38 | 15MHz | 16QAM | L | 1RB#38 | 20.37 | 23.37 | 33 | PASS |
| Band38 | 15MHz | 16QAM | L | 1RB#74 | 20.69 | 23.69 | 33 | PASS |
| Band38 | 15MHz | 16QAM | L | 75RB#0 | 20.36 | 23.36 | 33 | PASS |
| Band38 | 15MHz | 16QAM | M | 1RB#0  | 21.01 | 24.01 | 33 | PASS |
| Band38 | 15MHz | 16QAM | M | 1RB#38 | 21.14 | 24.14 | 33 | PASS |
| Band38 | 15MHz | 16QAM | M | 1RB#74 | 20.86 | 23.86 | 33 | PASS |
| Band38 | 15MHz | 16QAM | M | 75RB#0 | 20.68 | 23.68 | 33 | PASS |
| Band38 | 15MHz | 16QAM | H | 1RB#0  | 21.37 | 24.37 | 33 | PASS |
| Band38 | 15MHz | 16QAM | H | 1RB#38 | 21.56 | 24.56 | 33 | PASS |
| Band38 | 15MHz | 16QAM | H | 1RB#74 | 21.45 | 24.45 | 33 | PASS |
| Band38 | 15MHz | 16QAM | H | 75RB#0 | 21.09 | 24.09 | 33 | PASS |
| Band38 | 15MHz | 64QAM | L | 1RB#0  | 20.1  | 23.1  | 33 | PASS |

|        |       |       |   |         |       |       |    |      |
|--------|-------|-------|---|---------|-------|-------|----|------|
| Band38 | 15MHz | 64QAM | L | 1RB#38  | 20.06 | 23.06 | 33 | PASS |
| Band38 | 15MHz | 64QAM | L | 1RB#74  | 20.09 | 23.09 | 33 | PASS |
| Band38 | 15MHz | 64QAM | L | 75RB#0  | 20.48 | 23.48 | 33 | PASS |
| Band38 | 15MHz | 64QAM | M | 1RB#0   | 20.33 | 23.33 | 33 | PASS |
| Band38 | 15MHz | 64QAM | M | 1RB#38  | 20.8  | 23.8  | 33 | PASS |
| Band38 | 15MHz | 64QAM | M | 1RB#74  | 20.66 | 23.66 | 33 | PASS |
| Band38 | 15MHz | 64QAM | M | 75RB#0  | 20.67 | 23.67 | 33 | PASS |
| Band38 | 15MHz | 64QAM | H | 1RB#0   | 21.16 | 24.16 | 33 | PASS |
| Band38 | 15MHz | 64QAM | H | 1RB#38  | 21.18 | 24.18 | 33 | PASS |
| Band38 | 15MHz | 64QAM | H | 1RB#74  | 21.07 | 24.07 | 33 | PASS |
| Band38 | 15MHz | 64QAM | H | 75RB#0  | 20.99 | 23.99 | 33 | PASS |
| Band38 | 20MHz | QPSK  | L | 1RB#0   | 22.13 | 25.13 | 33 | PASS |
| Band38 | 20MHz | QPSK  | L | 1RB#49  | 22.12 | 25.12 | 33 | PASS |
| Band38 | 20MHz | QPSK  | L | 1RB#99  | 22.51 | 25.51 | 33 | PASS |
| Band38 | 20MHz | QPSK  | L | 100RB#0 | 21.38 | 24.38 | 33 | PASS |
| Band38 | 20MHz | QPSK  | M | 1RB#0   | 22.17 | 25.17 | 33 | PASS |
| Band38 | 20MHz | QPSK  | M | 1RB#49  | 22.86 | 25.86 | 33 | PASS |
| Band38 | 20MHz | QPSK  | M | 1RB#99  | 22.75 | 25.75 | 33 | PASS |
| Band38 | 20MHz | QPSK  | M | 100RB#0 | 21.77 | 24.77 | 33 | PASS |
| Band38 | 20MHz | QPSK  | H | 1RB#0   | 22.61 | 25.61 | 33 | PASS |
| Band38 | 20MHz | QPSK  | H | 1RB#49  | 23.09 | 26.09 | 33 | PASS |
| Band38 | 20MHz | QPSK  | H | 1RB#99  | 22.66 | 25.66 | 33 | PASS |
| Band38 | 20MHz | QPSK  | H | 100RB#0 | 22.02 | 25.02 | 33 | PASS |
| Band38 | 20MHz | 16QAM | L | 1RB#0   | 20.84 | 23.84 | 33 | PASS |
| Band38 | 20MHz | 16QAM | L | 1RB#49  | 20.65 | 23.65 | 33 | PASS |

|        |       |       |   |         |       |       |    |      |
|--------|-------|-------|---|---------|-------|-------|----|------|
| Band38 | 20MHz | 16QAM | L | 1RB#99  | 20.8  | 23.8  | 33 | PASS |
| Band38 | 20MHz | 16QAM | L | 100RB#0 | 20.61 | 23.61 | 33 | PASS |
| Band38 | 20MHz | 16QAM | M | 1RB#0   | 20.86 | 23.86 | 33 | PASS |
| Band38 | 20MHz | 16QAM | M | 1RB#49  | 21.91 | 24.91 | 33 | PASS |
| Band38 | 20MHz | 16QAM | M | 1RB#99  | 21.21 | 24.21 | 33 | PASS |
| Band38 | 20MHz | 16QAM | M | 100RB#0 | 20.71 | 23.71 | 33 | PASS |
| Band38 | 20MHz | 16QAM | H | 1RB#0   | 21.4  | 24.4  | 33 | PASS |
| Band38 | 20MHz | 16QAM | H | 1RB#49  | 21.63 | 24.63 | 33 | PASS |
| Band38 | 20MHz | 16QAM | H | 1RB#99  | 21.36 | 24.36 | 33 | PASS |
| Band38 | 20MHz | 16QAM | H | 100RB#0 | 20.95 | 23.95 | 33 | PASS |
| Band38 | 20MHz | 64QAM | L | 1RB#0   | 20.11 | 23.11 | 33 | PASS |
| Band38 | 20MHz | 64QAM | L | 1RB#49  | 20.04 | 23.04 | 33 | PASS |
| Band38 | 20MHz | 64QAM | L | 1RB#99  | 20.22 | 23.22 | 33 | PASS |
| Band38 | 20MHz | 64QAM | L | 100RB#0 | 20.37 | 23.37 | 33 | PASS |
| Band38 | 20MHz | 64QAM | M | 1RB#0   | 20.27 | 23.27 | 33 | PASS |
| Band38 | 20MHz | 64QAM | M | 1RB#49  | 20.69 | 23.69 | 33 | PASS |
| Band38 | 20MHz | 64QAM | M | 1RB#99  | 20.32 | 23.32 | 33 | PASS |
| Band38 | 20MHz | 64QAM | M | 100RB#0 | 20.73 | 23.73 | 33 | PASS |
| Band38 | 20MHz | 64QAM | H | 1RB#0   | 20.73 | 23.73 | 33 | PASS |
| Band38 | 20MHz | 64QAM | H | 1RB#49  | 21.04 | 24.04 | 33 | PASS |
| Band38 | 20MHz | 64QAM | H | 1RB#99  | 20.97 | 23.97 | 33 | PASS |
| Band38 | 20MHz | 64QAM | H | 100RB#0 | 20.98 | 23.98 | 33 | PASS |

## 2. Frequency Stability

### 2.4 B38\_20MHz

#### 2.4.1 Test Result

| Band: 38 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2580            | 100           | 0      | 20         | 3.27          | -5.833           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -4.581           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -5.137           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -2.286           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -3.278           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -2.695           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -5.346           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -2.793           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -4.320           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -2.693           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -2.200           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             | 2595            | 100           | 0      | 20         | 3.27          | -0.912           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -4.520           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -4.305           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -2.116           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -3.726           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -5.018           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -1.244           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -3.582           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.673           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -4.945           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -6.339           | -0.0024               | -2.5 to 2.5 | Pass    |
|                             | 2610            | 100           | 0      | 20         | 3.27          | -1.544           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -2.415           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -4.083           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -5.646           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -6.357           | -0.0024               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -1.988           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -6.986           | -0.0027               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -4.339           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -5.404           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -1.346           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -5.242           | -0.0020               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2580            | 100           | 0      | 20         | 3.27          | -2.307           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -3.518           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -5.068           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -5.401           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -6.536           | -0.0025               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -5.392           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -4.352           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -1.832           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -5.672           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -4.985           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -5.939           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             | 2595            | 100           | 0      | 20         | 3.27          | -3.083           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -1.906           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.044           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -4.571           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -1.033           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -1.475           | -0.0006               | -2.5 to 2.5 | Pass    |

|       |      |     |   |     |      |        |         |             |      |
|-------|------|-----|---|-----|------|--------|---------|-------------|------|
|       |      |     |   | 0   | 3.85 | -4.644 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -3.904 | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -4.720 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -1.862 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -1.710 | -0.0007 | -2.5 to 2.5 | Pass |
|       | 2610 | 100 | 0 | 20  | 3.27 | -5.487 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | -5.683 | -0.0022 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -4.862 | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -4.638 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | -0.542 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -4.742 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | -4.584 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -5.475 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -1.163 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -1.894 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -1.324 | -0.0005 | -2.5 to 2.5 | Pass |
| 64QAM | 2580 | 100 | 0 | 20  | 3.27 | -2.114 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | -6.305 | -0.0024 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -1.780 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -5.437 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | -2.401 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -2.183 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | -4.057 | -0.0016 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -4.378 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -2.212 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -0.984 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -2.496 | -0.0010 | -2.5 to 2.5 | Pass |
|       | 2595 | 100 | 0 | 20  | 3.27 | -4.642 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | -1.487 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -4.855 | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -3.110 | -0.0012 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | -1.409 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -4.692 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | -4.595 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -4.580 | -0.0018 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -1.686 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -2.783 | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -0.374 | -0.0001 | -2.5 to 2.5 | Pass |
|       | 2610 | 100 | 0 | 20  | 3.27 | -4.023 | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 3.85 | -2.426 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.43 | -0.947 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 3.85 | -1.429 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 3.85 | -1.917 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 3.85 | -1.127 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 3.85 | -4.396 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 3.85 | -3.739 | -0.0014 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 3.85 | -0.097 | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 3.85 | -4.352 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 3.85 | -5.149 | -0.0020 | -2.5 to 2.5 | Pass |

$|\text{MAX}(\Delta f)| = 6.986\text{Hz}$

| Frequency Stability            | Frequency (MHz) | Limit Line             | Result |
|--------------------------------|-----------------|------------------------|--------|
| $f_L -  \text{MAX}(\Delta f) $ | 2570.625143     | $\geq 2570\text{ MHz}$ | PASS   |

|                                |             |                         |  |
|--------------------------------|-------------|-------------------------|--|
| $f_H +  \text{MAX}(\Delta f) $ | 2619.574638 | $\leq 2620 \text{ MHz}$ |  |
|--------------------------------|-------------|-------------------------|--|

### 3. 99% & 26dB Bandwidth

#### 3.1 Band38\_OBW

##### 3.1.1 Test Result

| Band: 38 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2572.5          | 25            | 0      | 4.564                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.588                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.574                        | /     | Pass    |
|                 | 16QAM      | 2572.5          | 25            | 0      | 4.568                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.575                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.552                        | /     | Pass    |
|                 | 64QAM      | 2572.5          | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.592                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.575                        | /     | Pass    |
| 10              | QPSK       | 2575            | 50            | 0      | 9.075                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.117                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.060                        | /     | Pass    |
|                 | 16QAM      | 2575            | 50            | 0      | 9.065                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.087                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.086                        | /     | Pass    |
|                 | 64QAM      | 2575            | 50            | 0      | 9.072                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.091                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.079                        | /     | Pass    |
| 15              | QPSK       | 2577.5          | 75            | 0      | 13.618                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.614                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.599                       | /     | Pass    |
|                 | 16QAM      | 2577.5          | 75            | 0      | 13.627                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.592                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.623                       | /     | Pass    |
|                 | 64QAM      | 2577.5          | 75            | 0      | 13.603                       | /     | Pass    |
|                 |            | 2595            | 75            | 0      | 13.650                       | /     | Pass    |
|                 |            | 2612.5          | 75            | 0      | 13.659                       | /     | Pass    |
| 20              | QPSK       | 2580            | 100           | 0      | 18.175                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.152                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.082                       | /     | Pass    |
|                 | 16QAM      | 2580            | 100           | 0      | 18.140                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.162                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.114                       | /     | Pass    |
|                 | 64QAM      | 2580            | 100           | 0      | 18.118                       | /     | Pass    |
|                 |            | 2595            | 100           | 0      | 18.116                       | /     | Pass    |
|                 |            | 2610            | 100           | 0      | 18.114                       | /     | Pass    |

#### 3.2 Band38\_XDB

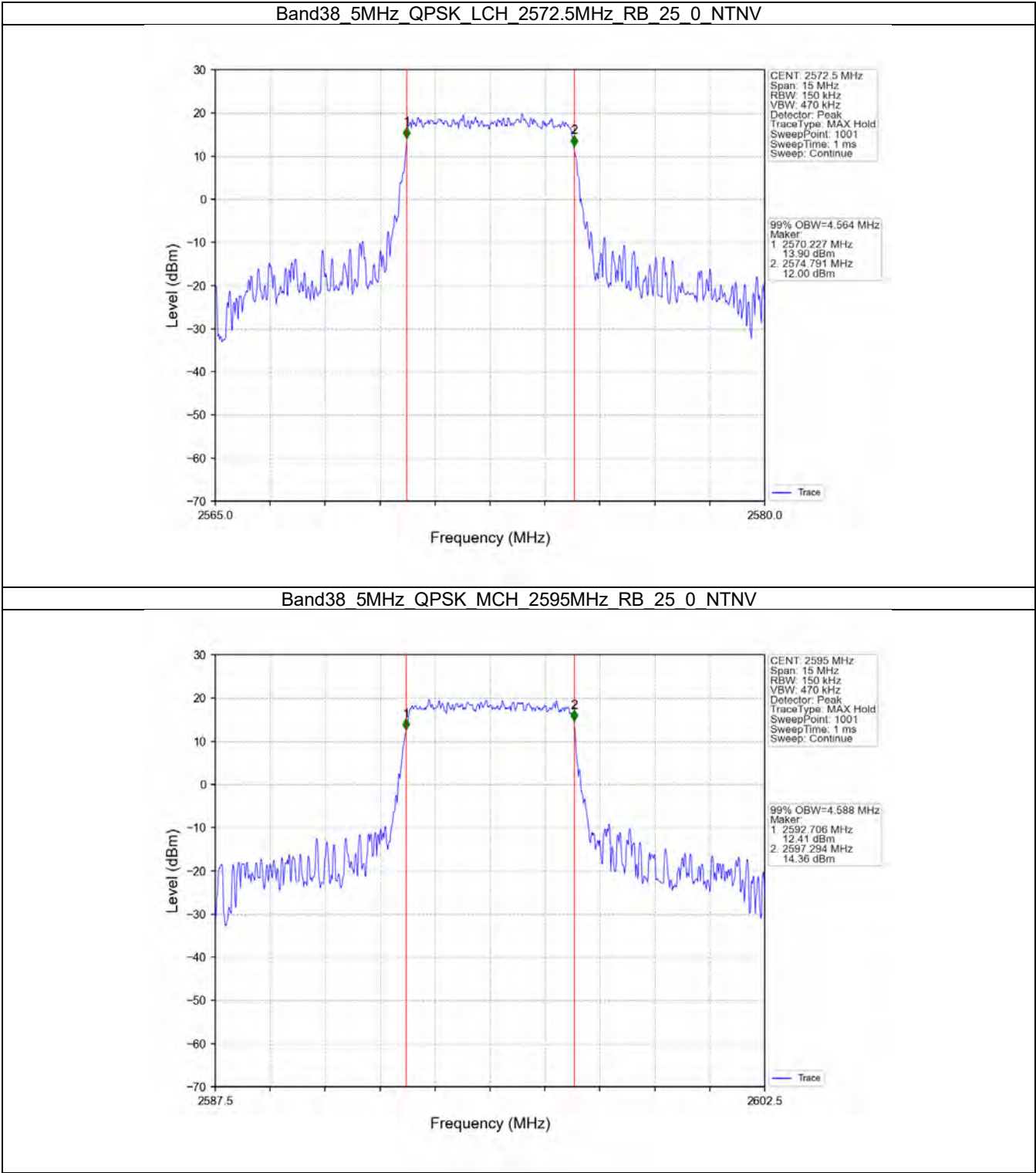
##### 3.2.1 Test Result

| Band: 38 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2572.5          | 25            | 0      | 5.287                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.266                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.955                | /     | Pass    |

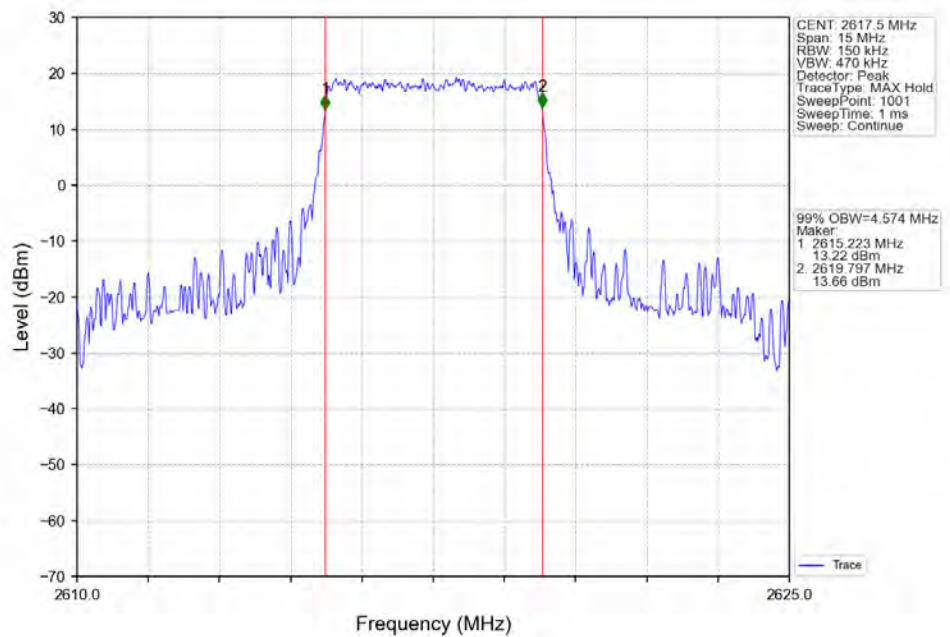
|    |       |        |     |   |        |   |      |
|----|-------|--------|-----|---|--------|---|------|
|    | 16QAM | 2572.5 | 25  | 0 | 5.251  | / | Pass |
|    |       | 2595   | 25  | 0 | 5.766  | / | Pass |
|    |       | 2617.5 | 25  | 0 | 5.292  | / | Pass |
|    | 64QAM | 2572.5 | 25  | 0 | 5.386  | / | Pass |
|    |       | 2595   | 25  | 0 | 5.756  | / | Pass |
|    |       | 2617.5 | 25  | 0 | 5.491  | / | Pass |
| 10 | QPSK  | 2575   | 50  | 0 | 10.437 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.465 | / | Pass |
|    |       | 2615   | 50  | 0 | 10.186 | / | Pass |
|    | 16QAM | 2575   | 50  | 0 | 10.202 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.253 | / | Pass |
|    |       | 2615   | 50  | 0 | 10.596 | / | Pass |
|    | 64QAM | 2575   | 50  | 0 | 10.005 | / | Pass |
|    |       | 2595   | 50  | 0 | 10.112 | / | Pass |
|    |       | 2615   | 50  | 0 | 11.399 | / | Pass |
| 15 | QPSK  | 2577.5 | 75  | 0 | 15.634 | / | Pass |
|    |       | 2595   | 75  | 0 | 16.108 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 16.535 | / | Pass |
|    | 16QAM | 2577.5 | 75  | 0 | 16.000 | / | Pass |
|    |       | 2595   | 75  | 0 | 15.365 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 16.102 | / | Pass |
|    | 64QAM | 2577.5 | 75  | 0 | 16.060 | / | Pass |
|    |       | 2595   | 75  | 0 | 15.547 | / | Pass |
|    |       | 2612.5 | 75  | 0 | 15.631 | / | Pass |
| 20 | QPSK  | 2580   | 100 | 0 | 20.556 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.773 | / | Pass |
|    |       | 2610   | 100 | 0 | 21.039 | / | Pass |
|    | 16QAM | 2580   | 100 | 0 | 22.639 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.320 | / | Pass |
|    |       | 2610   | 100 | 0 | 21.849 | / | Pass |
|    | 64QAM | 2580   | 100 | 0 | 20.821 | / | Pass |
|    |       | 2595   | 100 | 0 | 20.222 | / | Pass |
|    |       | 2610   | 100 | 0 | 20.152 | / | Pass |

### 3.1 Band38\_OBW

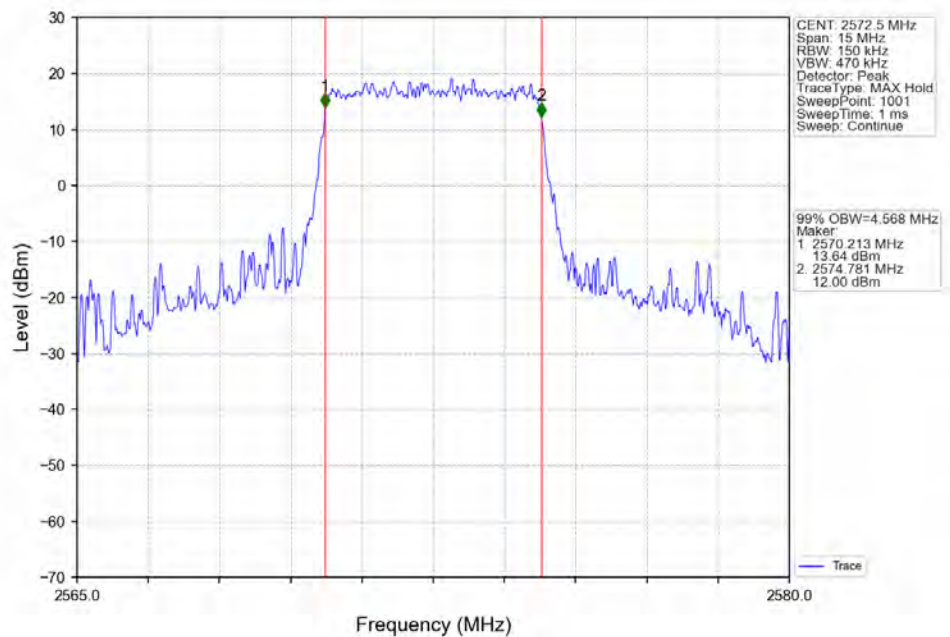
3.1.2 Test Graph



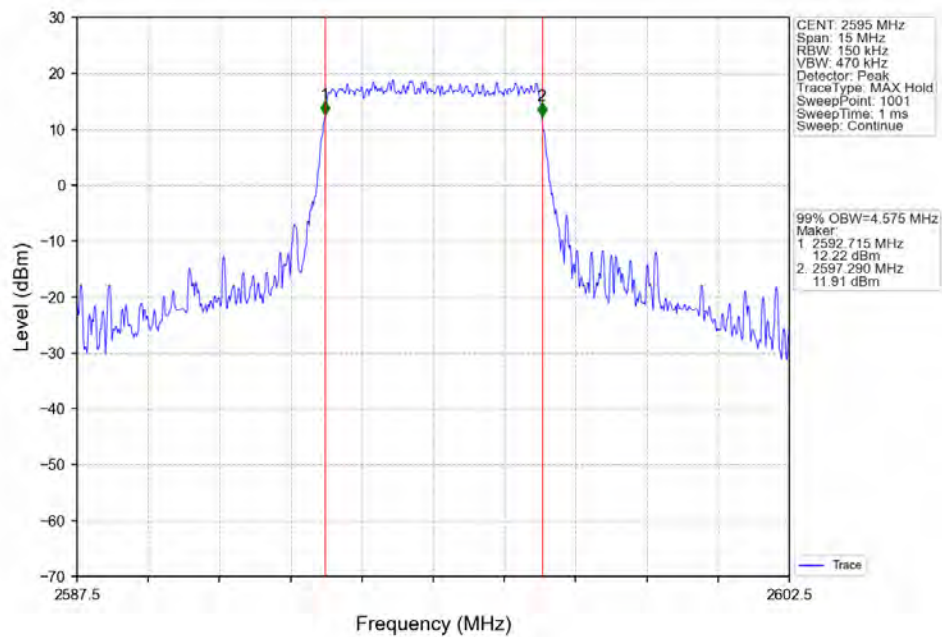
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



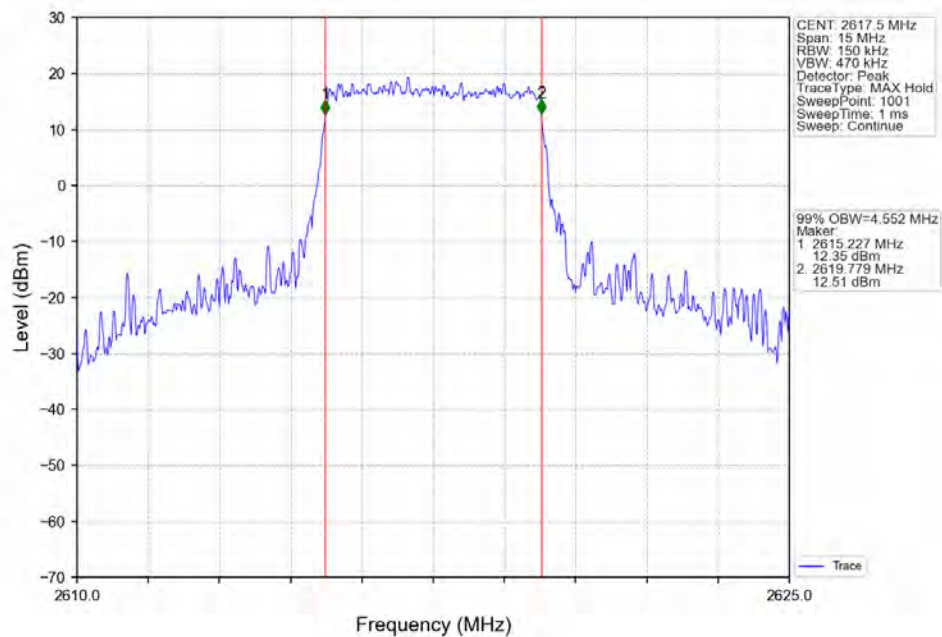
Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



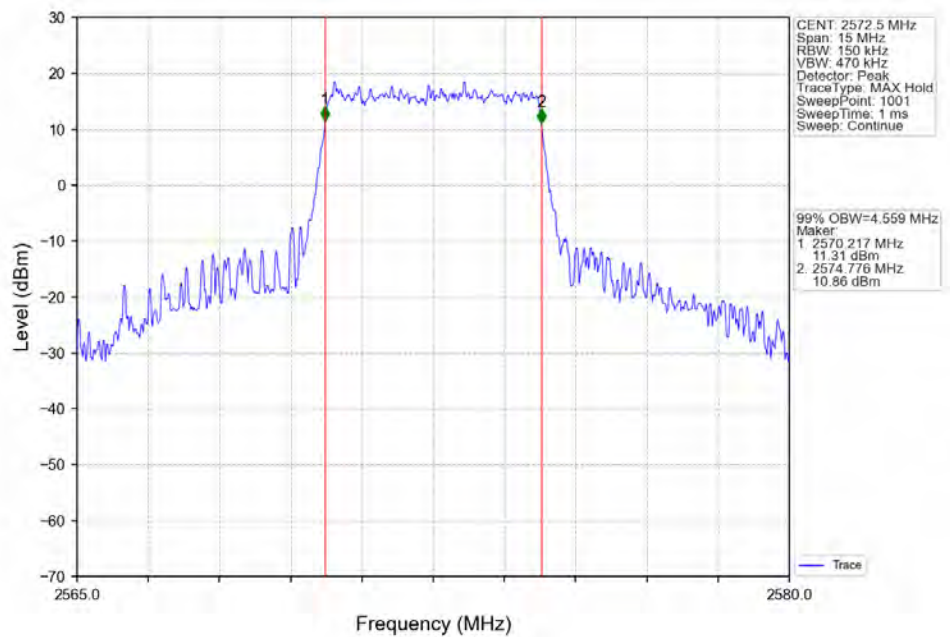
Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



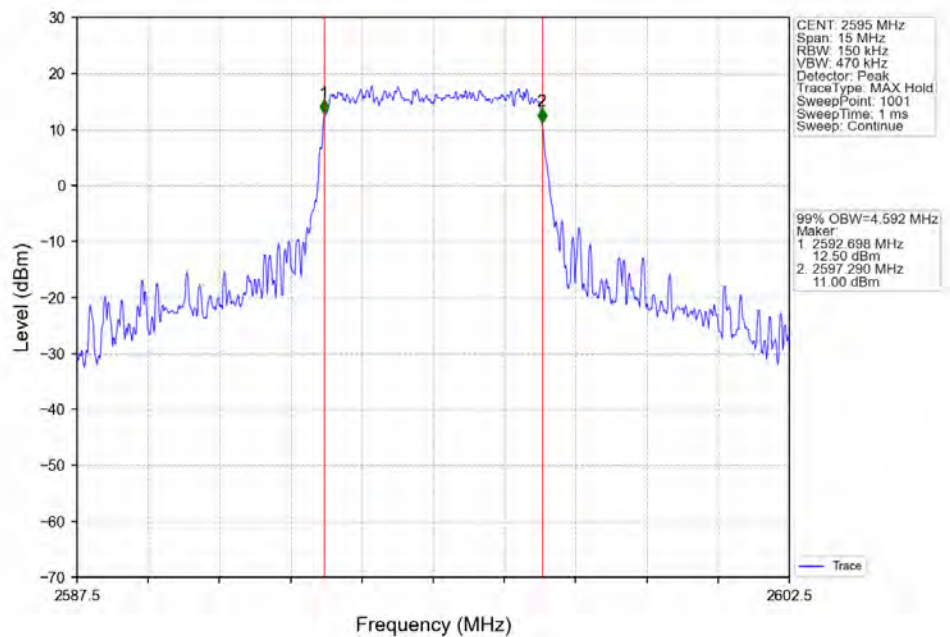
Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



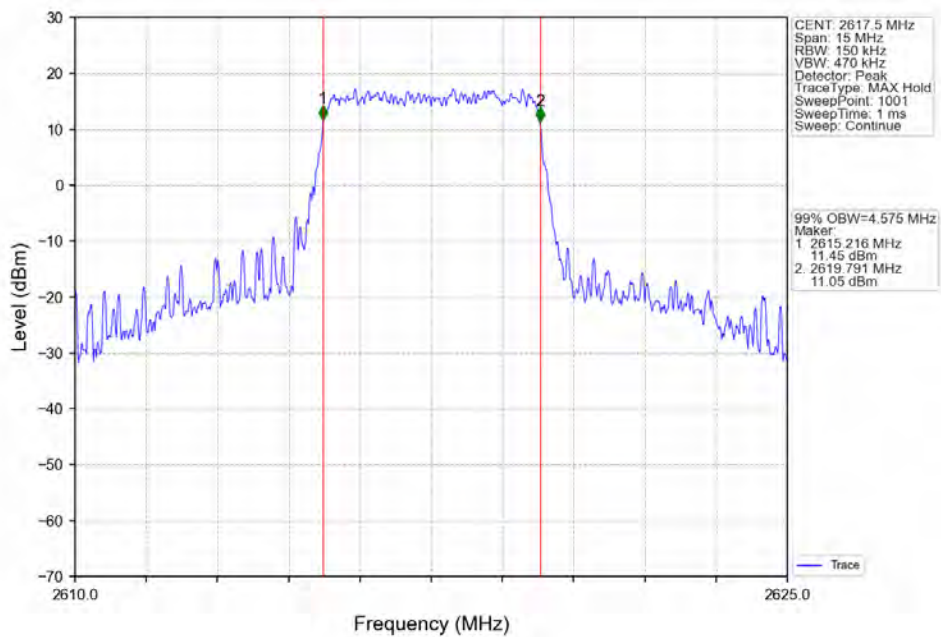
Band38 5MHz 64QAM LCH 2572.5MHz RB 25 0 NTNV



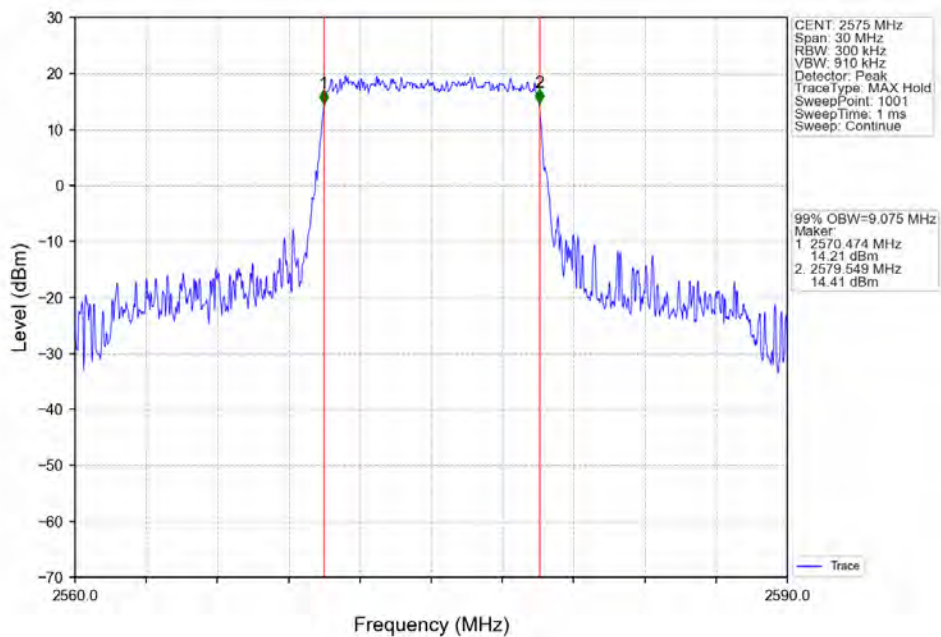
Band38\_5MHz\_64QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



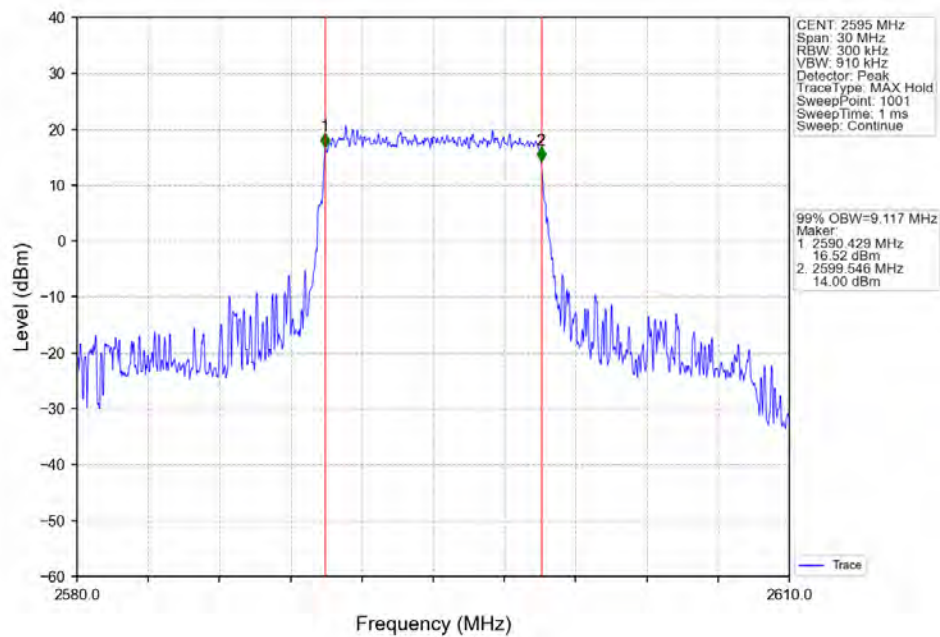
Band38 5MHz 64QAM HCH 2617.5MHz RB 25 0 NTN



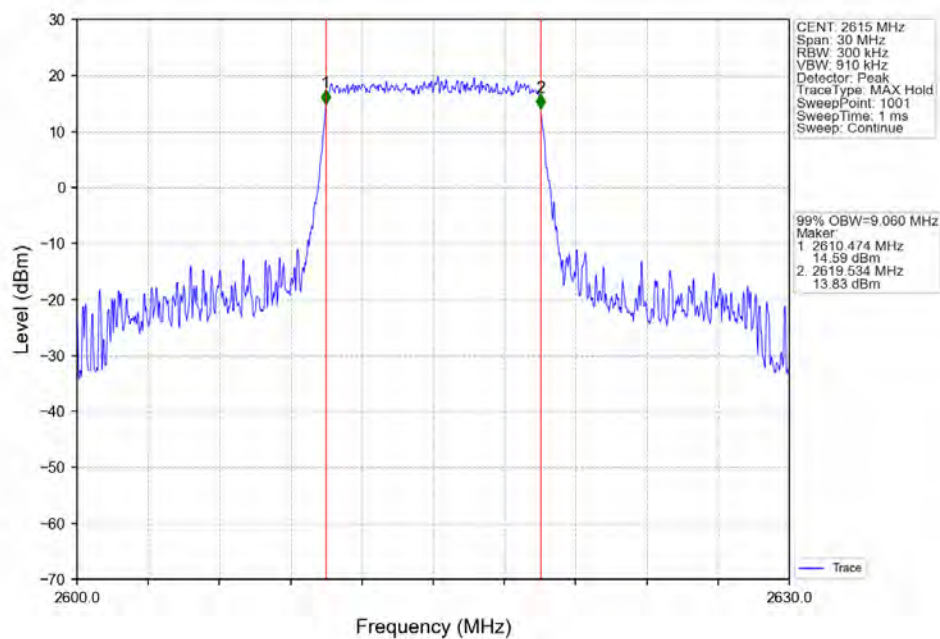
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0 NTN



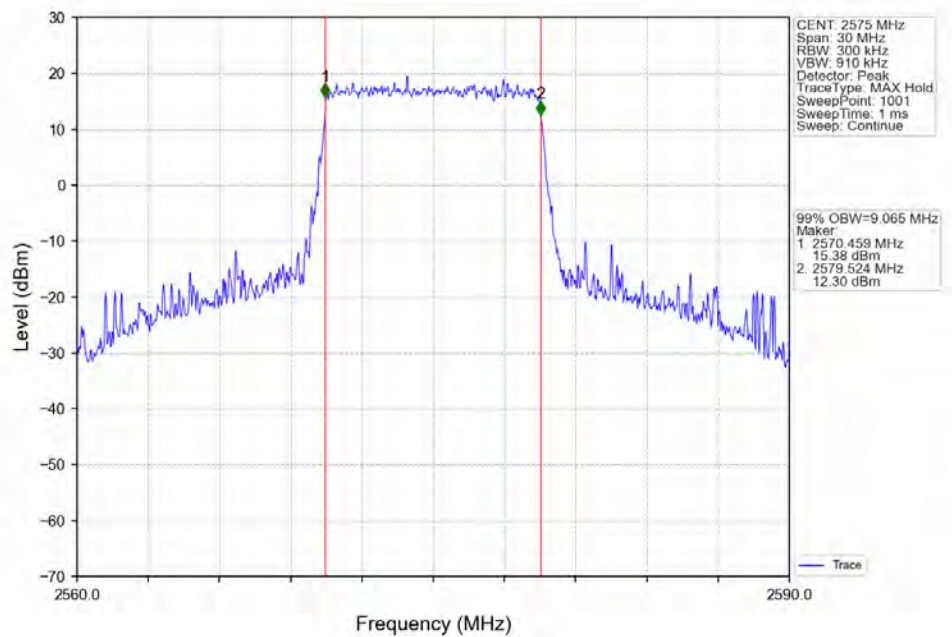
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



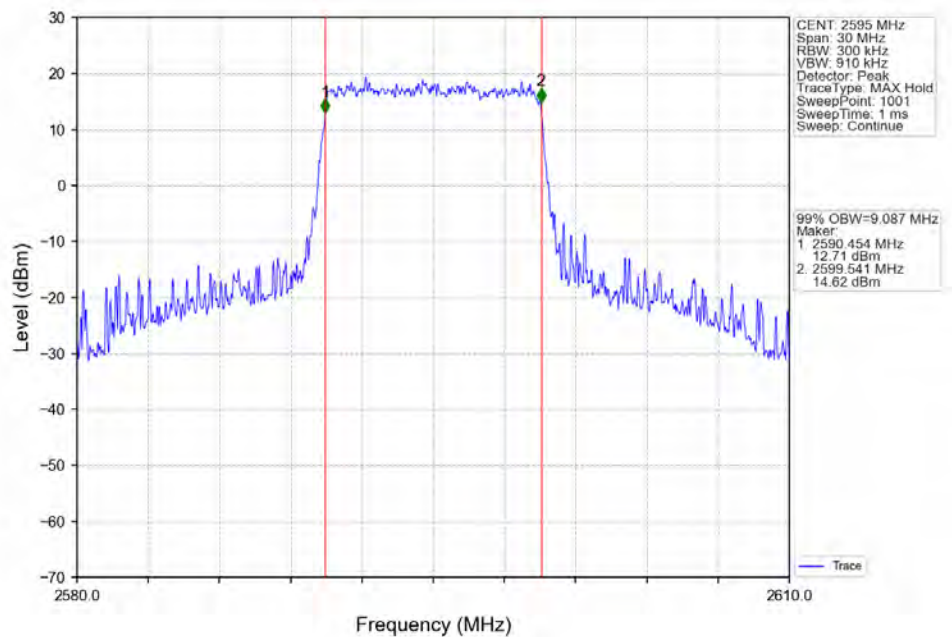
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



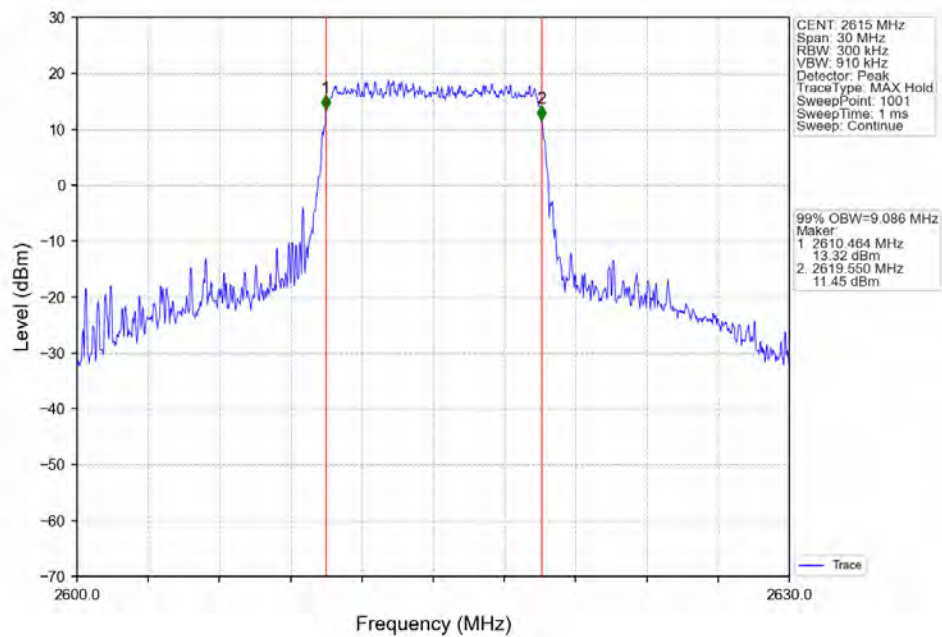
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTNV



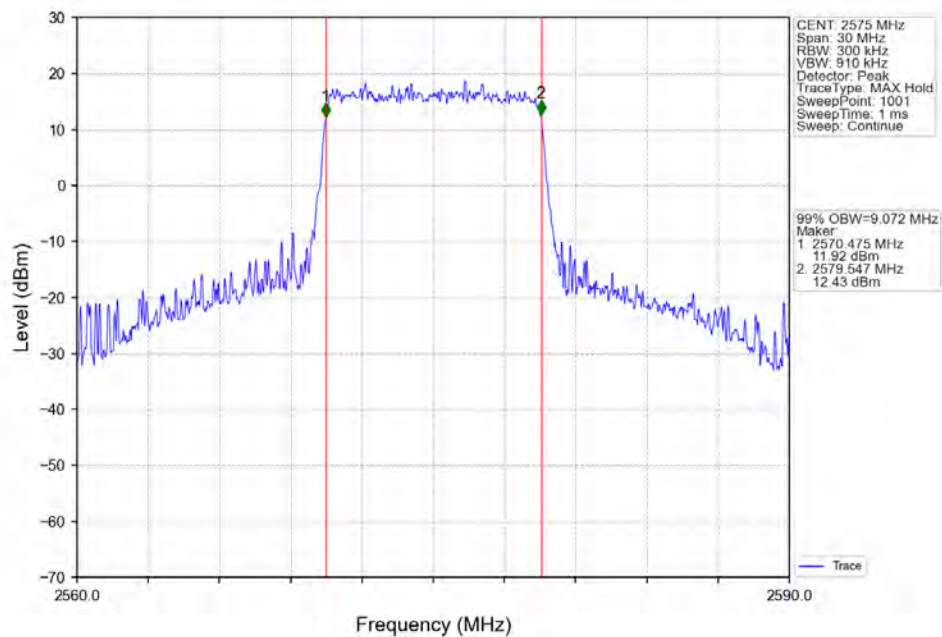
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV



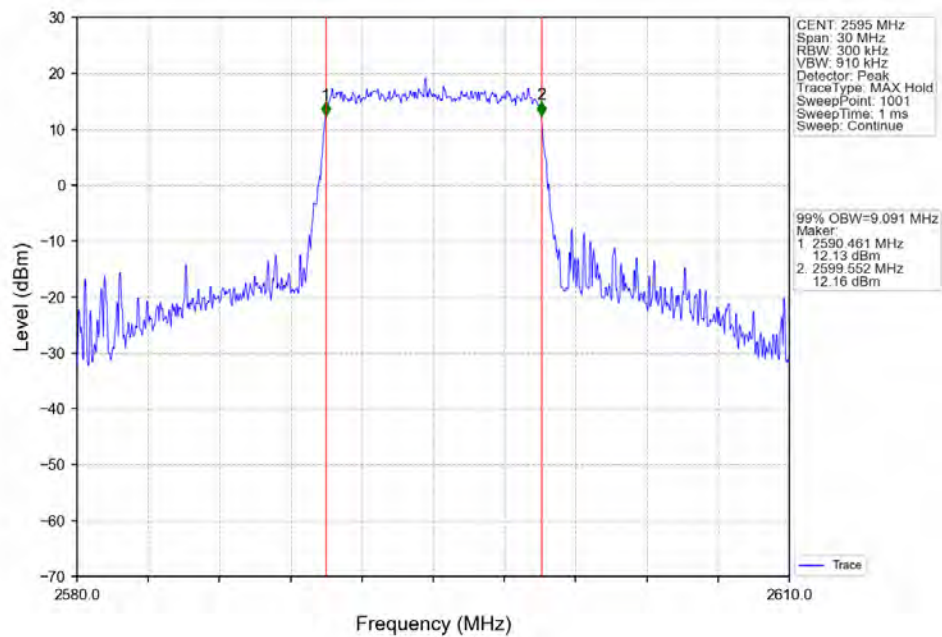
Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



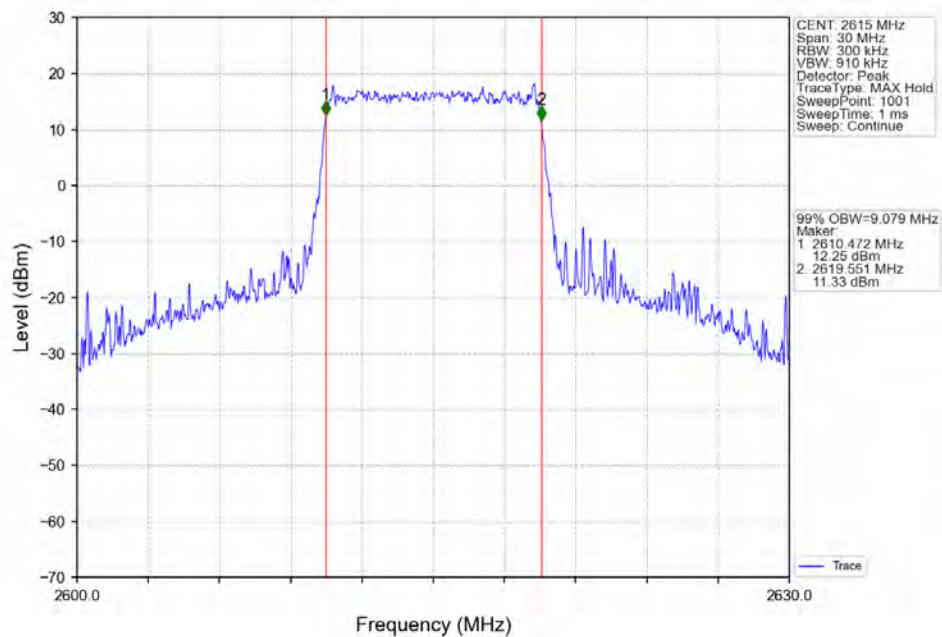
Band38\_10MHz\_64QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



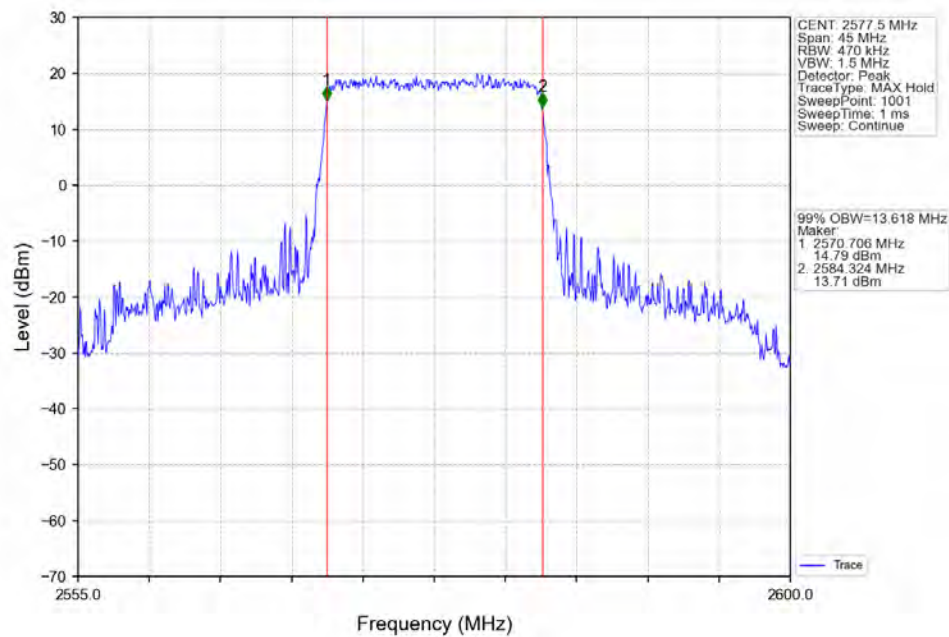
Band38 10MHz 64QAM MCH 2595MHz RB 50 0 NTNV



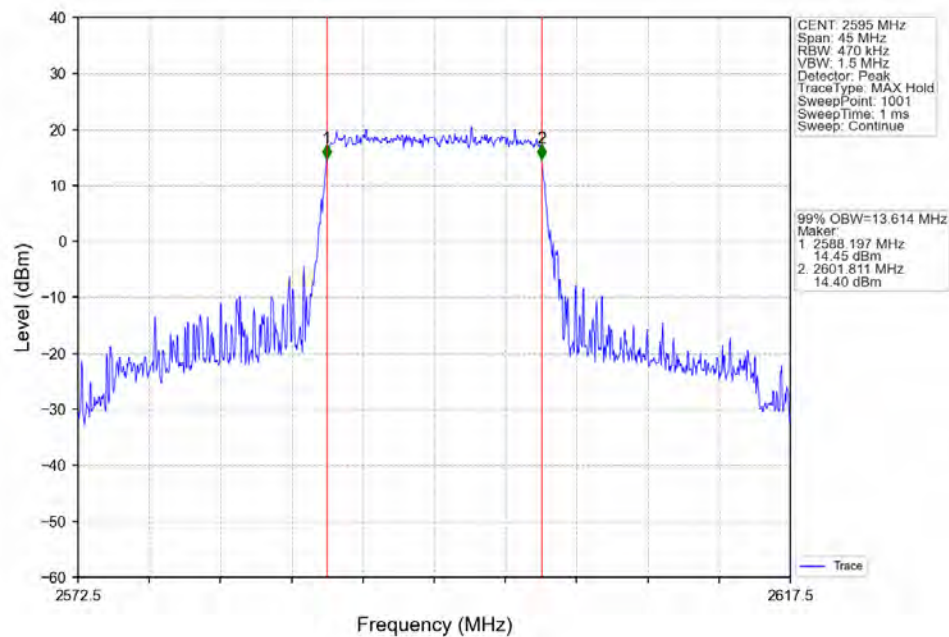
Band38 10MHz 64QAM HCH 2615MHz RB 50 0 NTNV



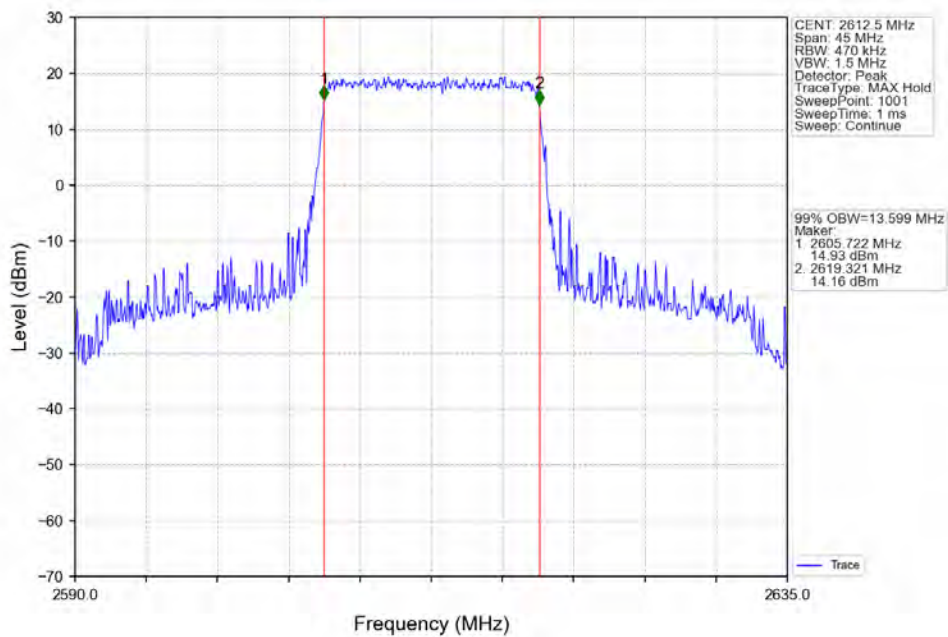
Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTN



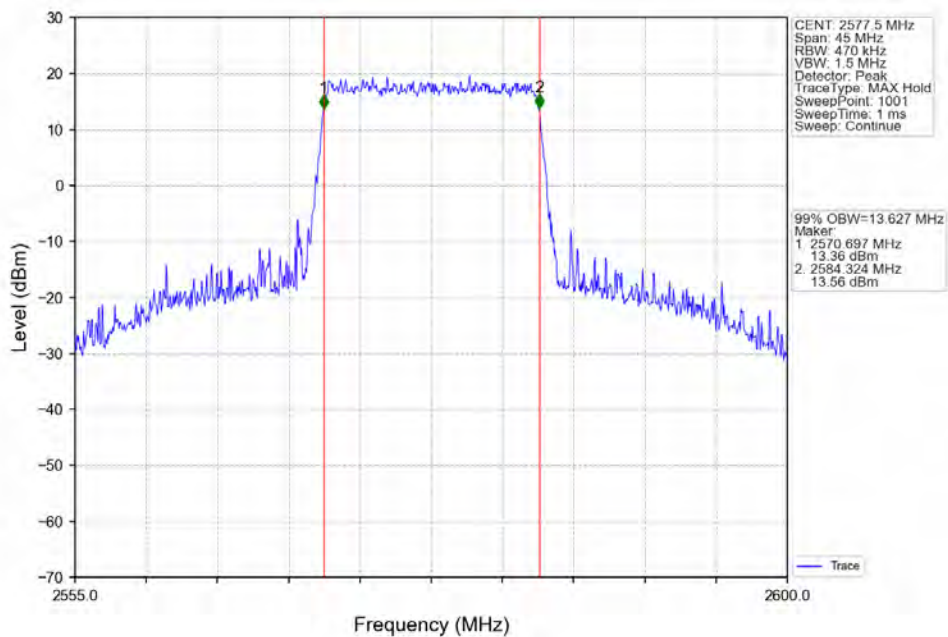
Band38 15MHz QPSK MCH 2595MHz RB 75 0 NTN



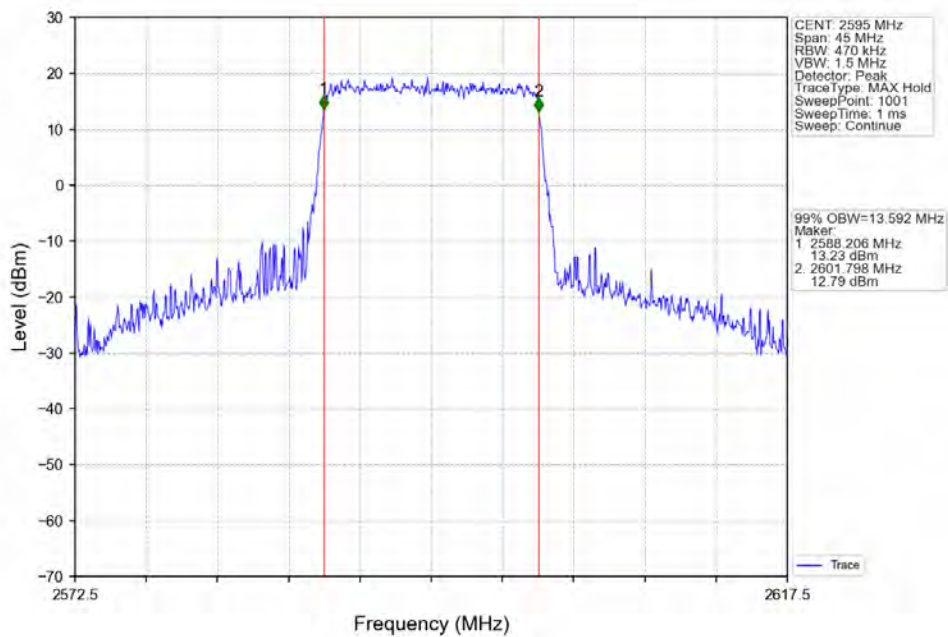
Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTNV



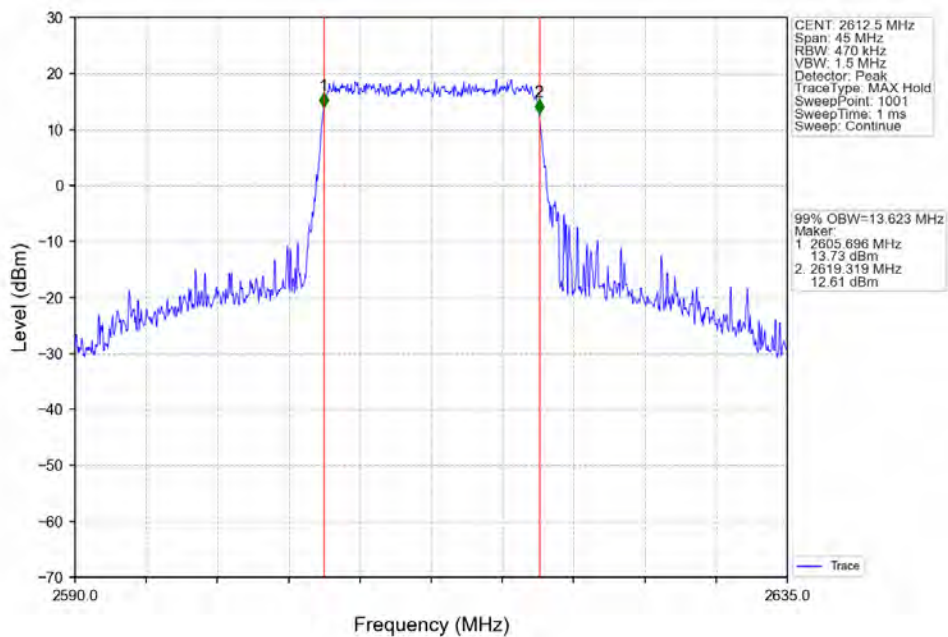
Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTNV



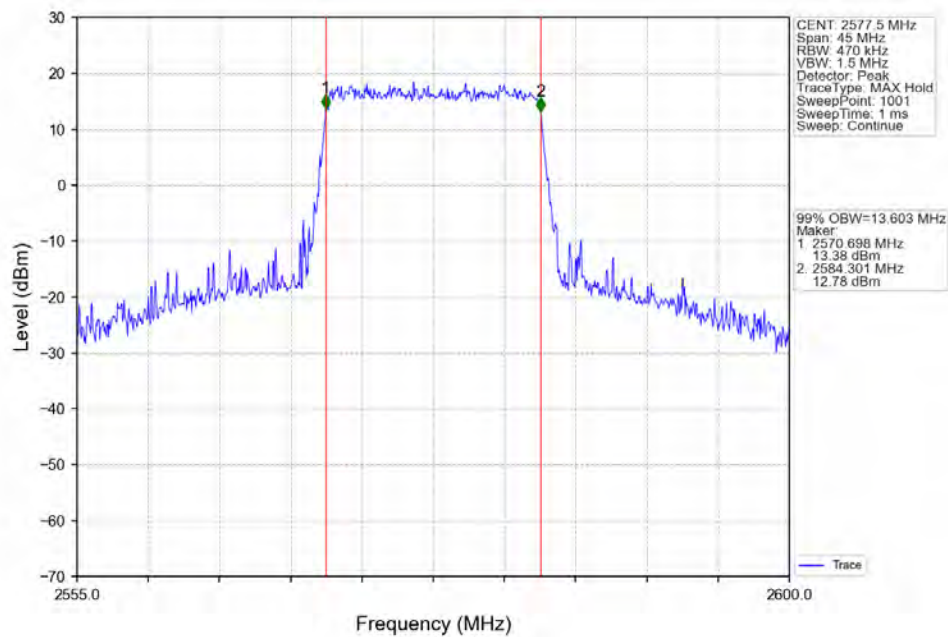
Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



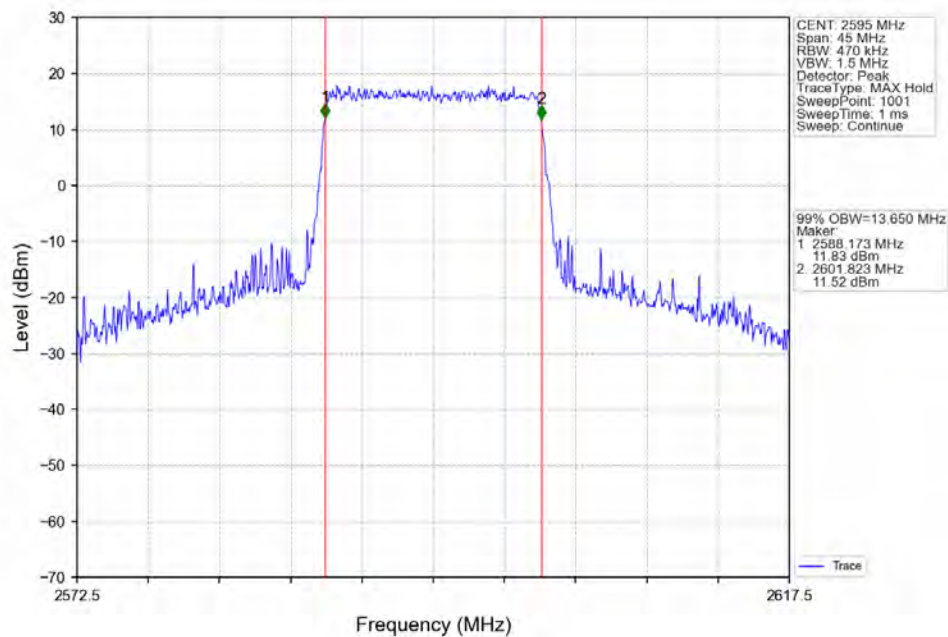
Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



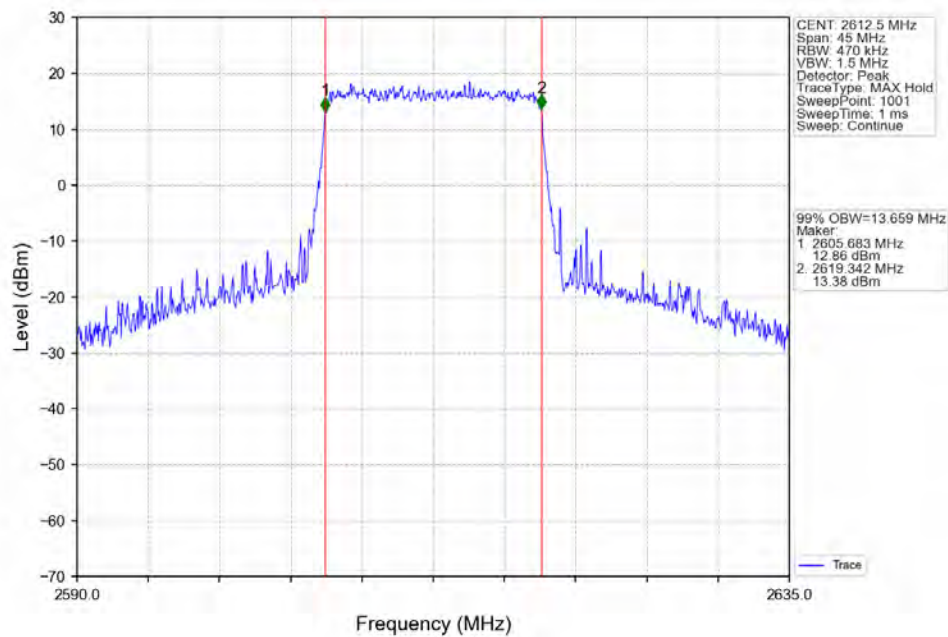
Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



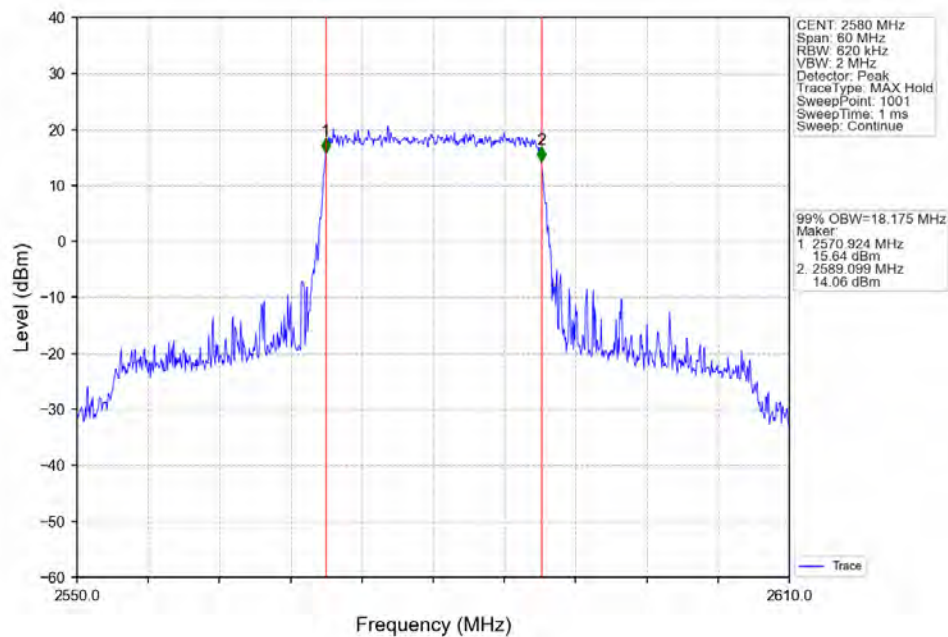
Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV

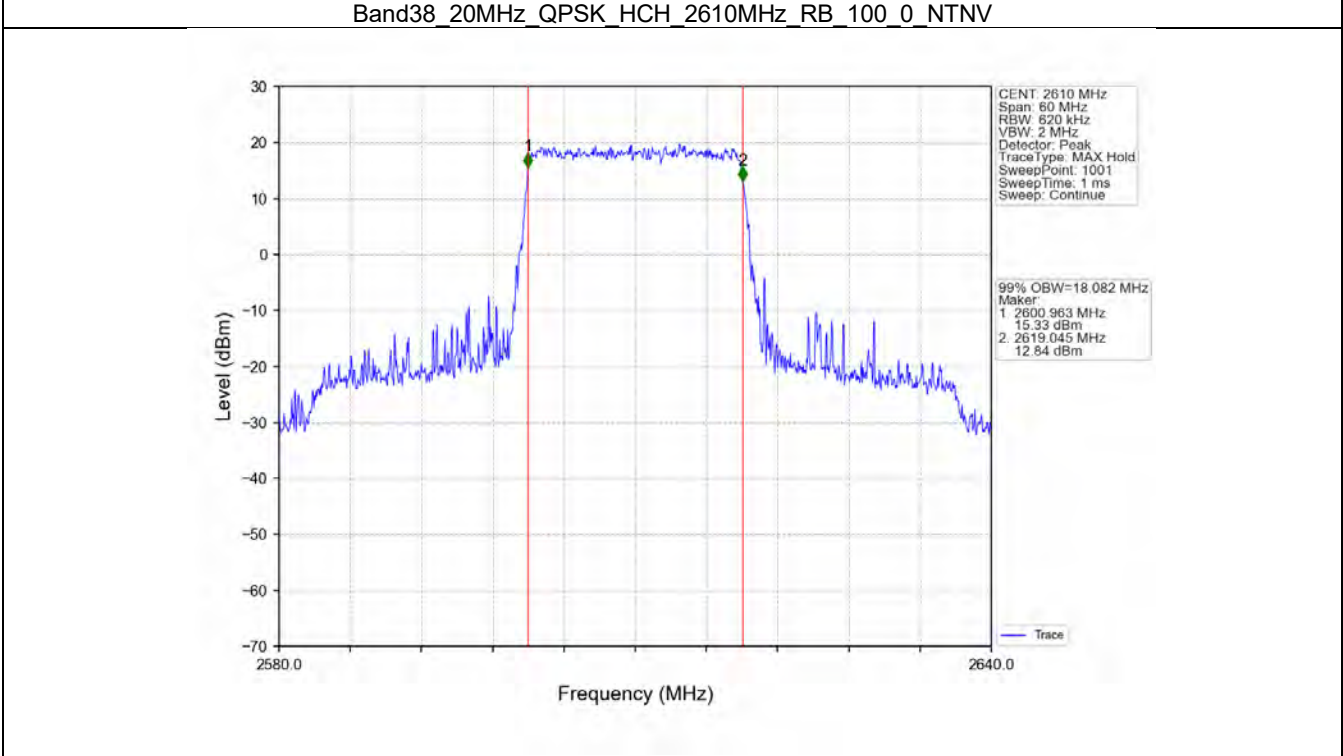
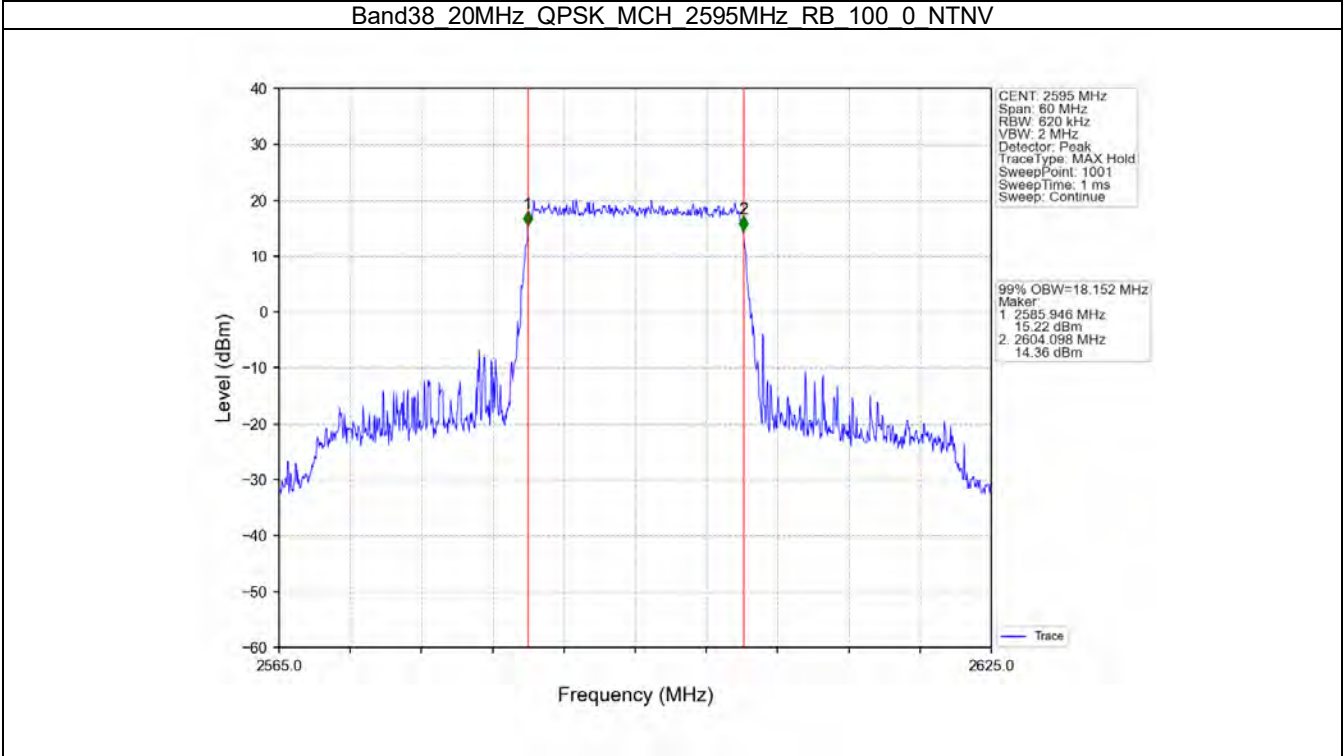


Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV

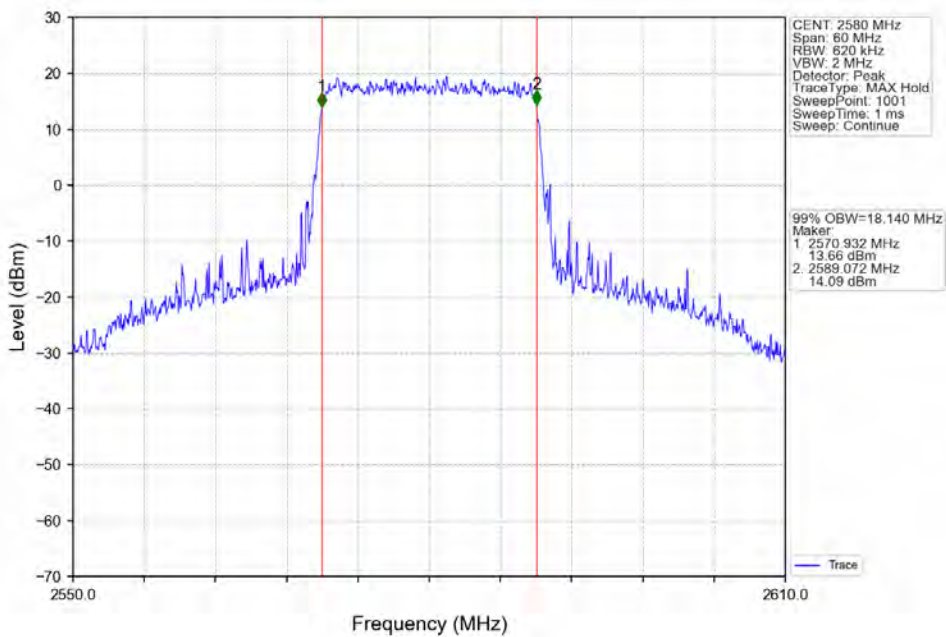


Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV

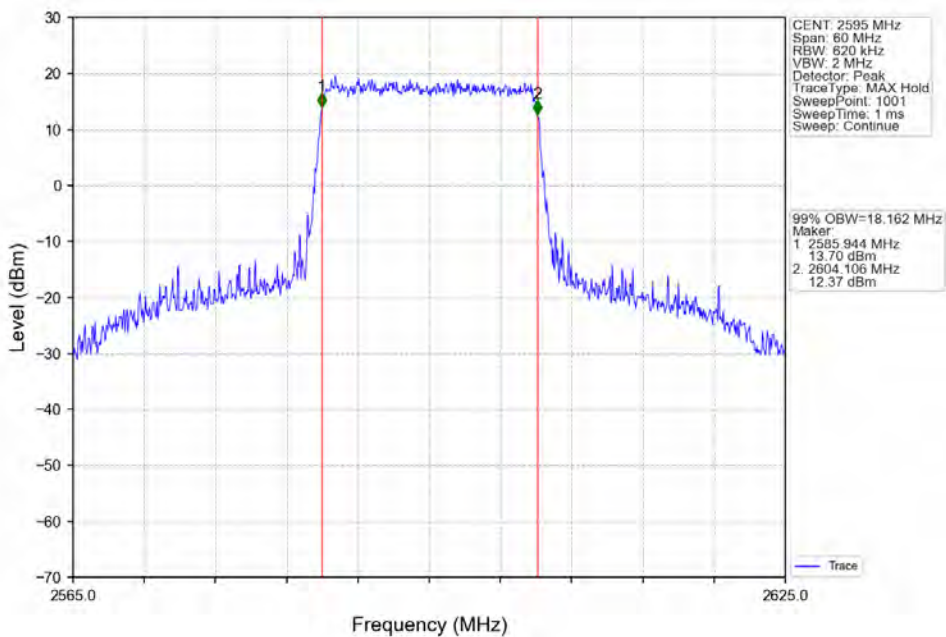




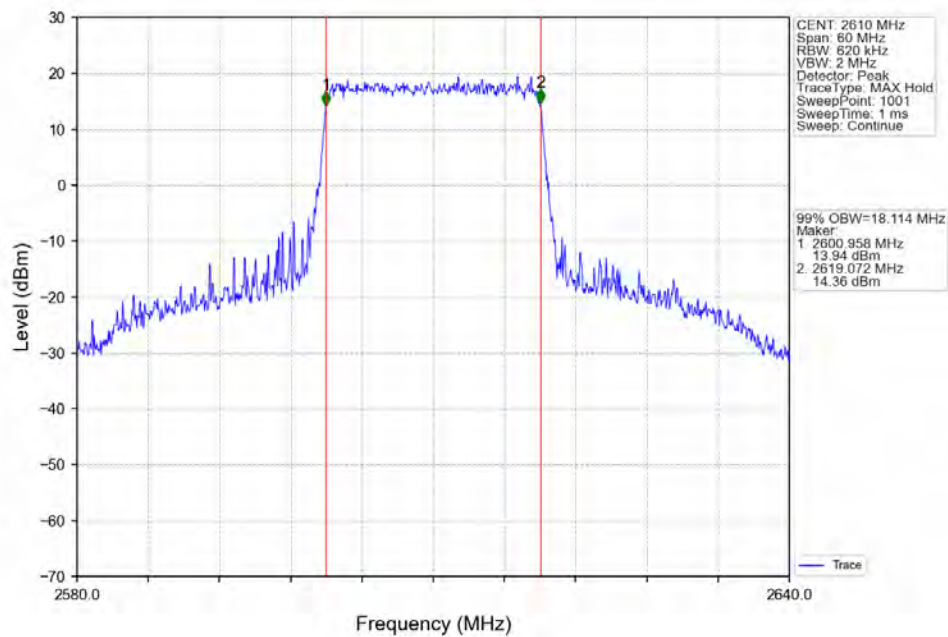
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTNV



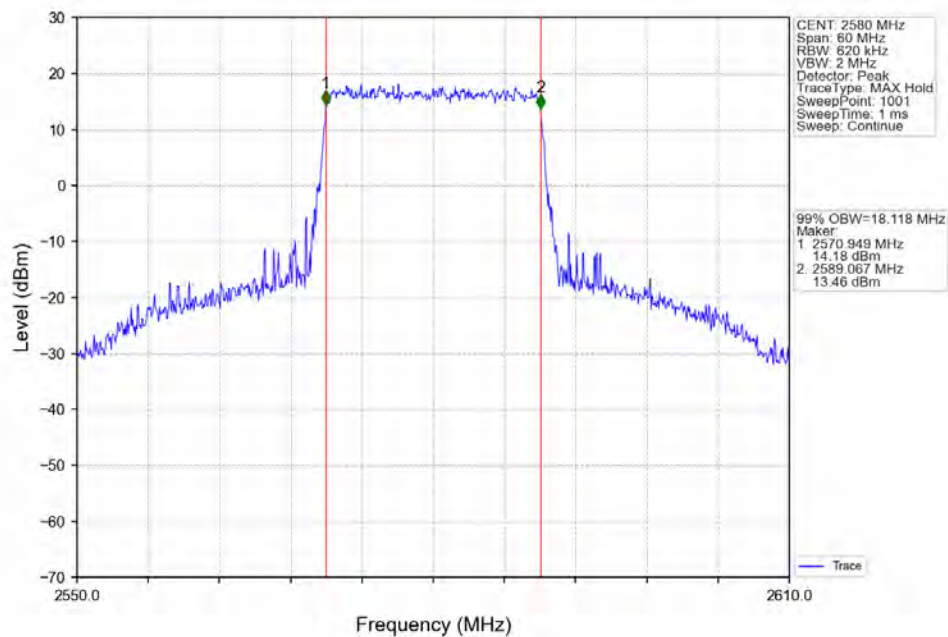
Band38 20MHz 16QAM MCH 2595MHz RB 100 0 NTNV



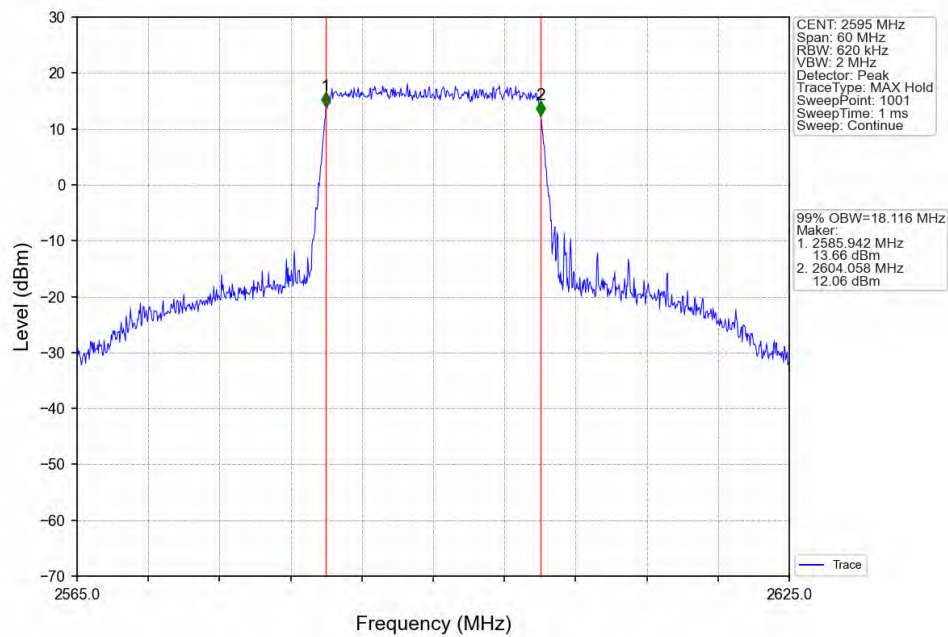
Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



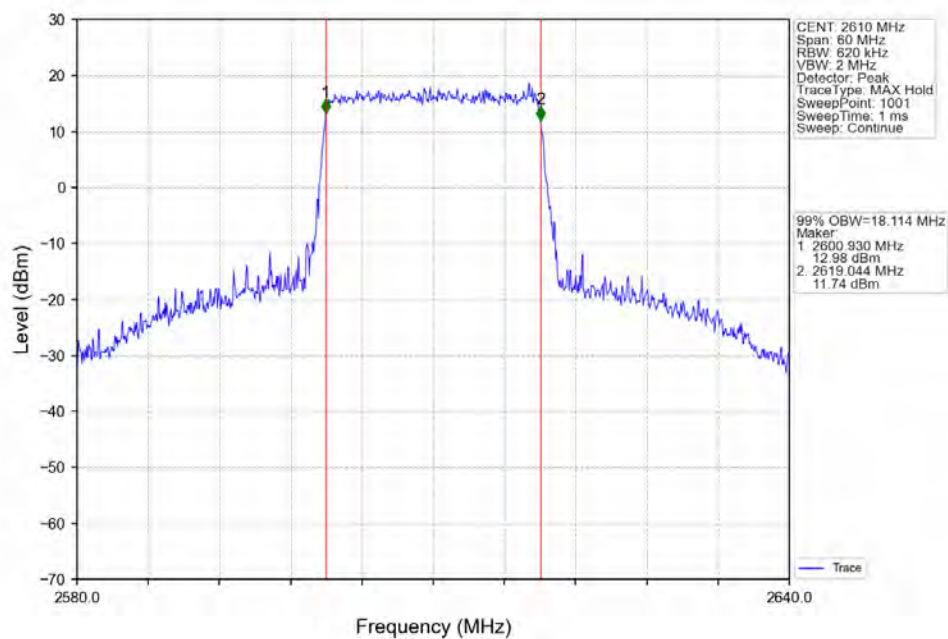
Band38\_20MHz\_64QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV

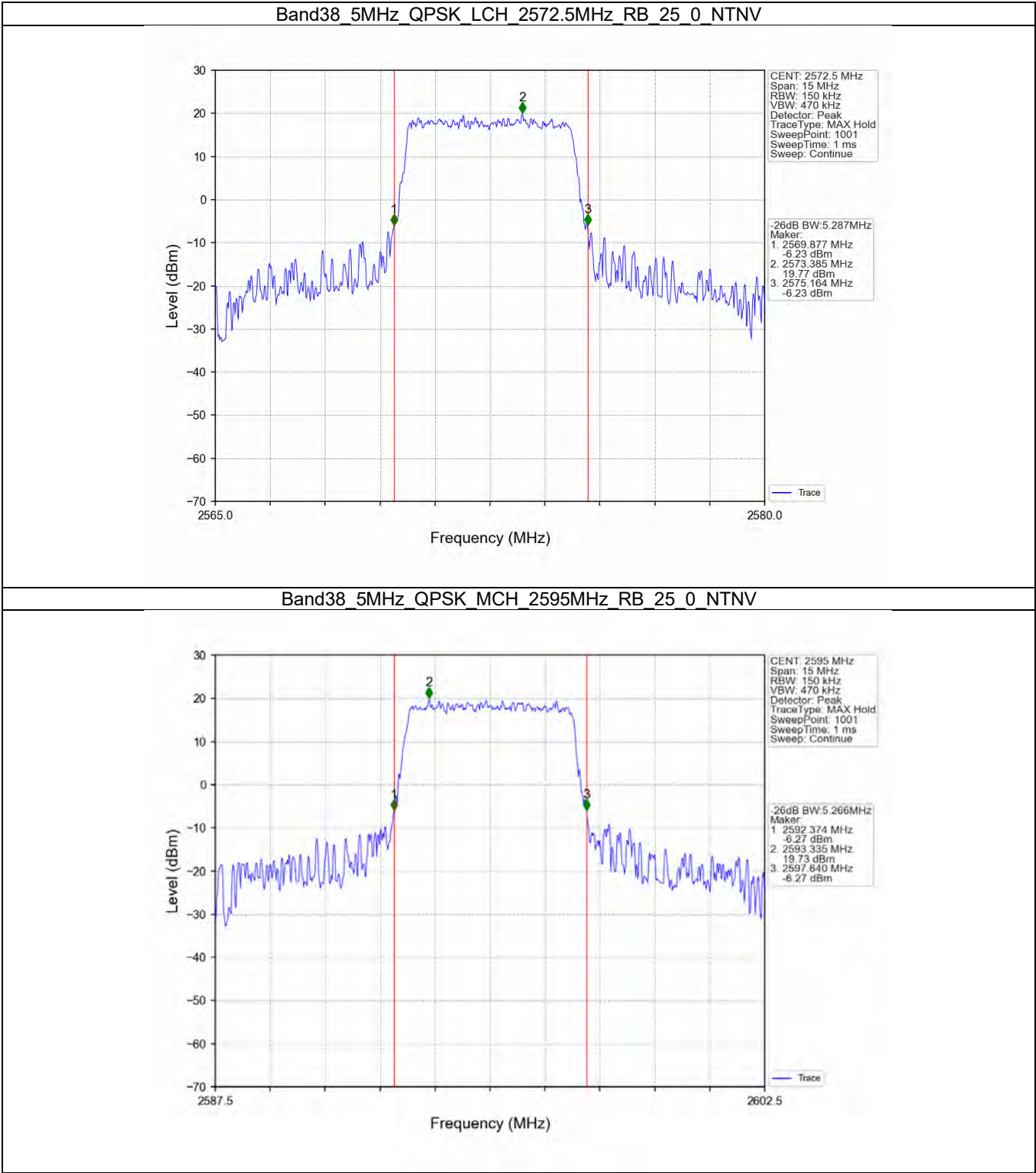


Band38\_20MHz\_64QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV

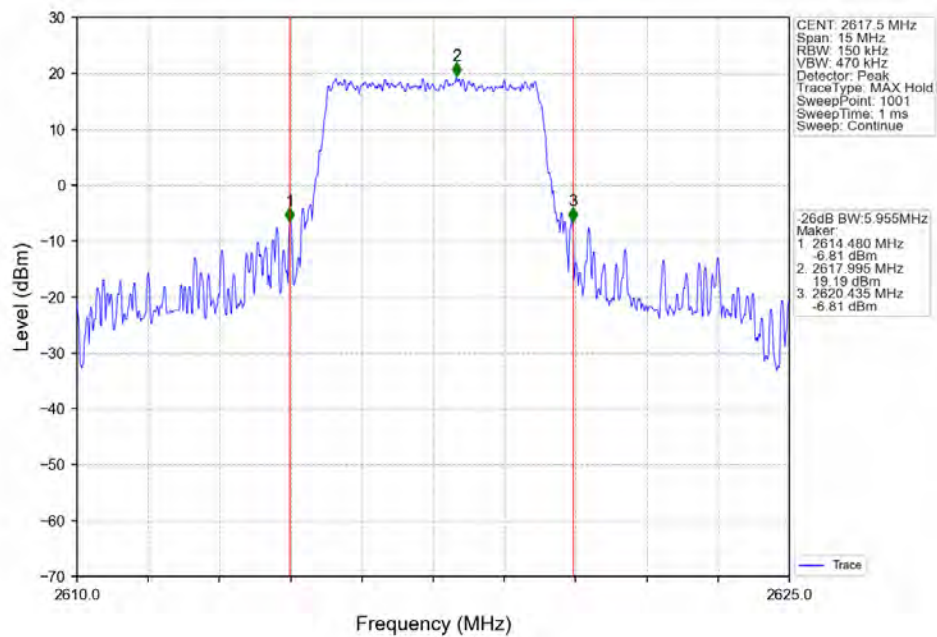


3.2 Band38\_XDB

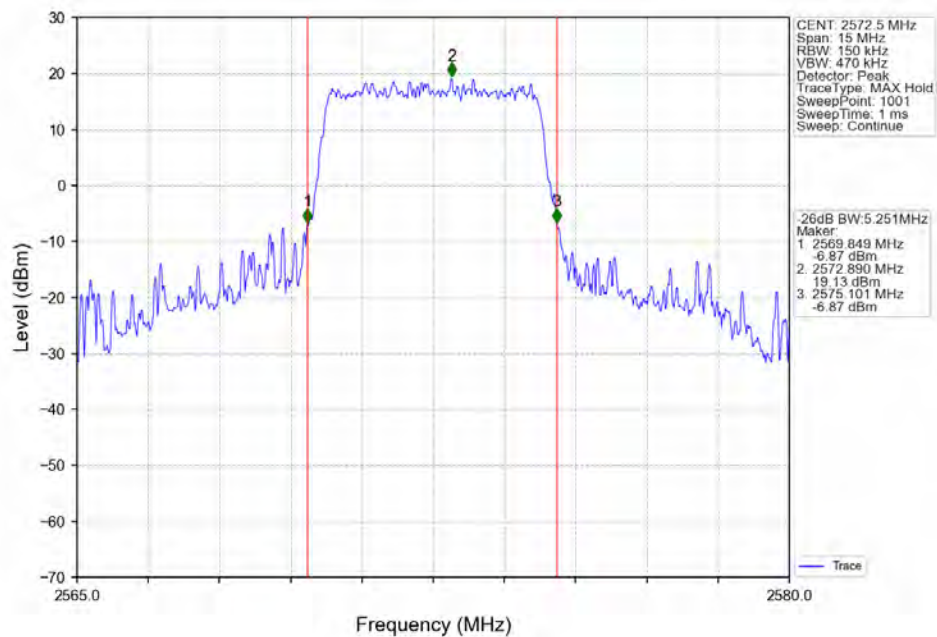
3.2.2 Test Graph



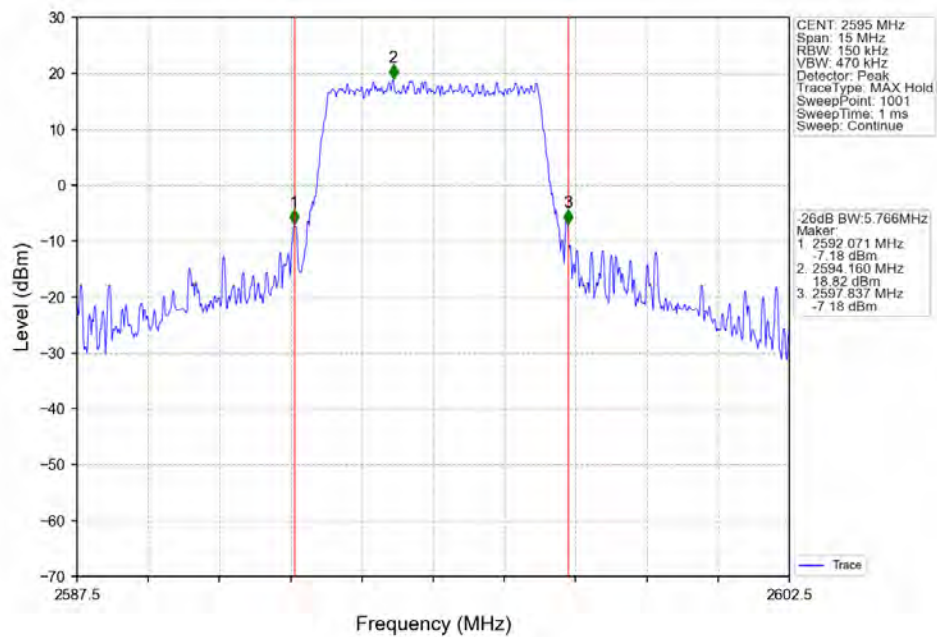
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



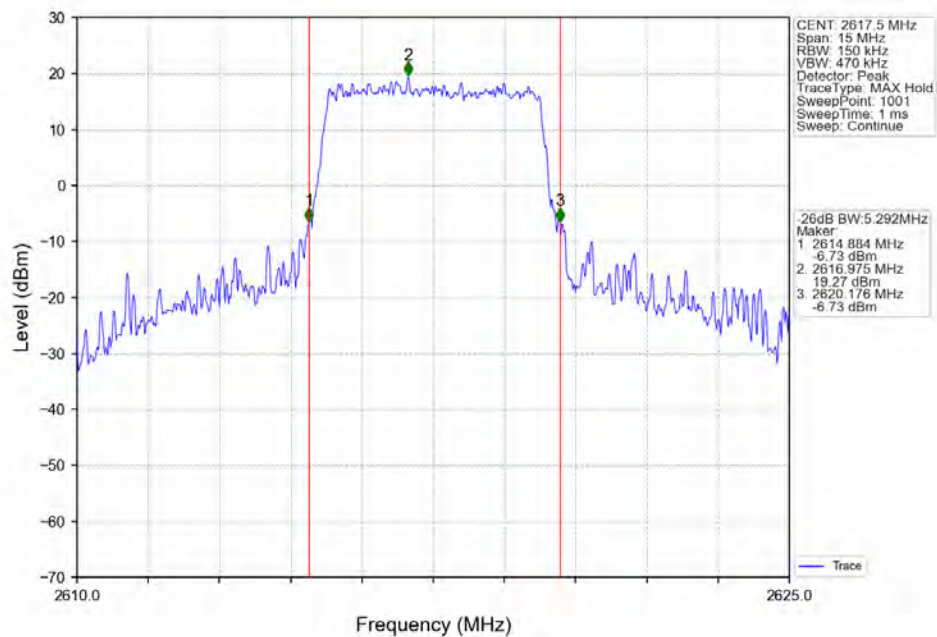
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV

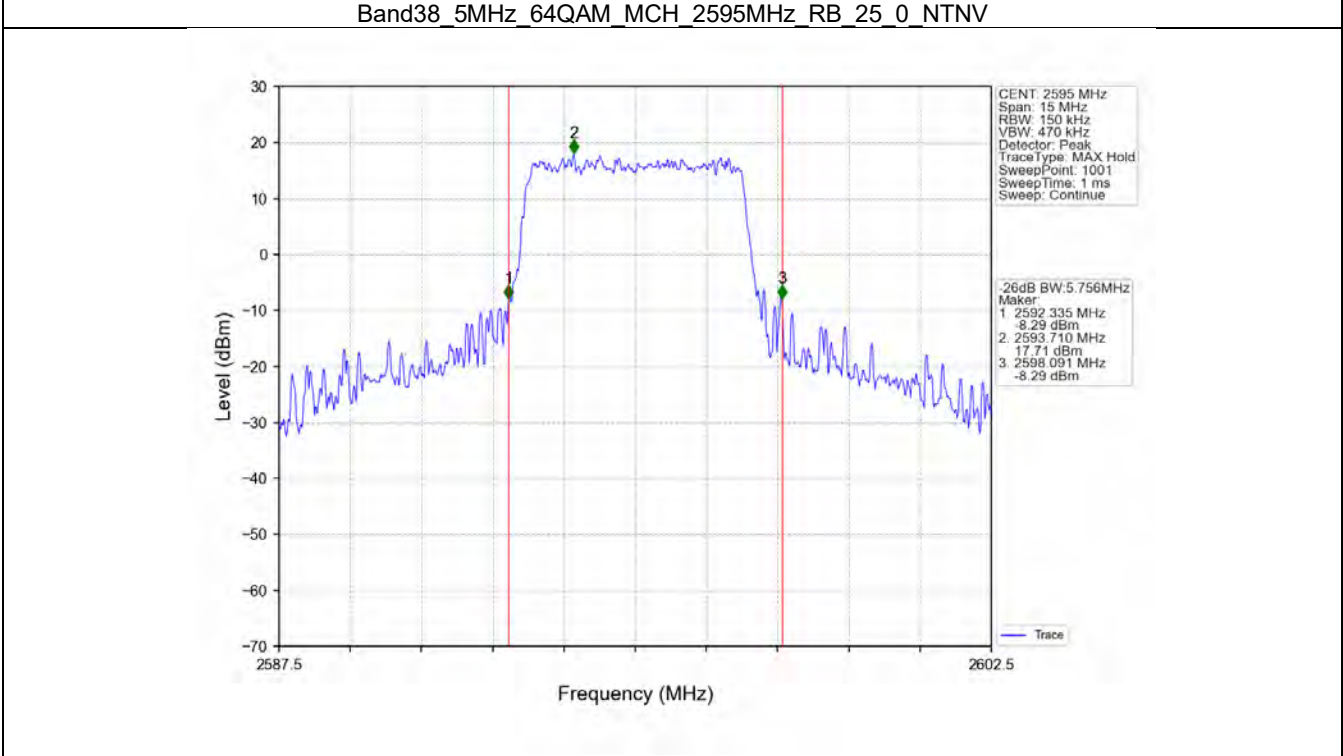
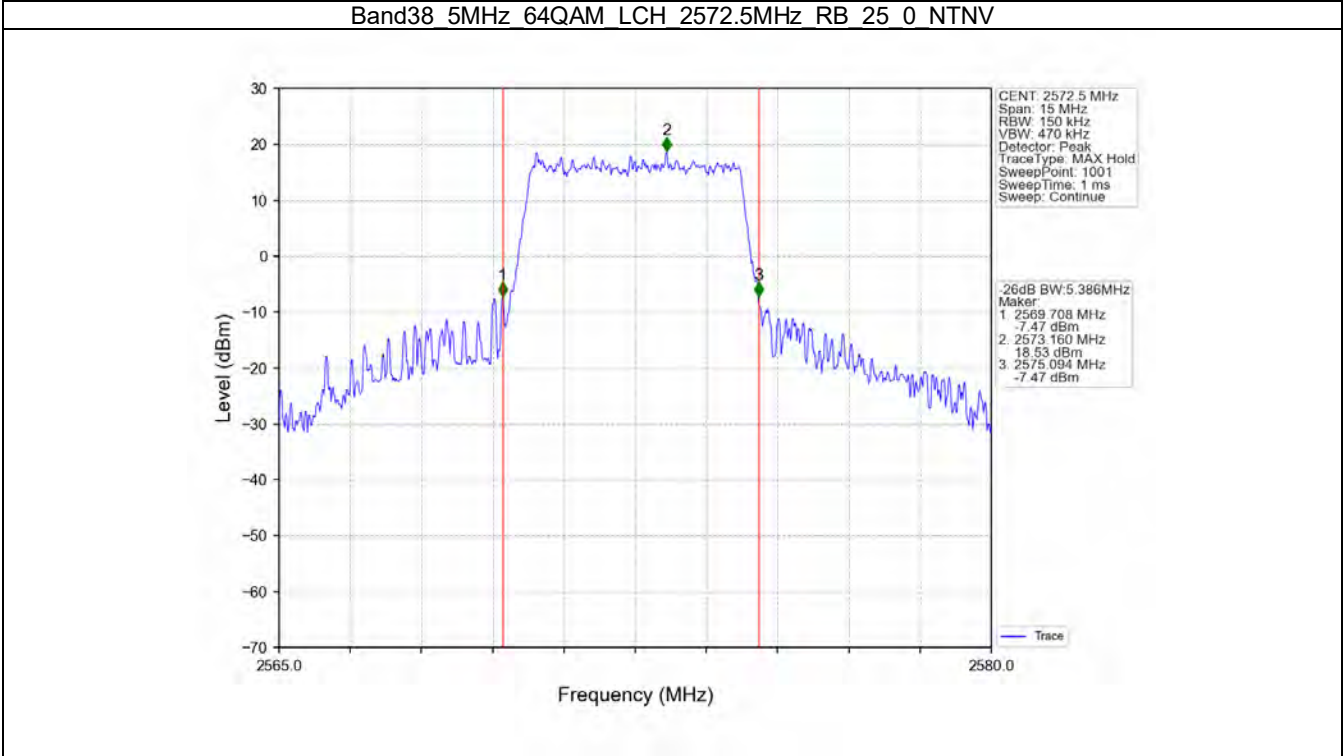


Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV

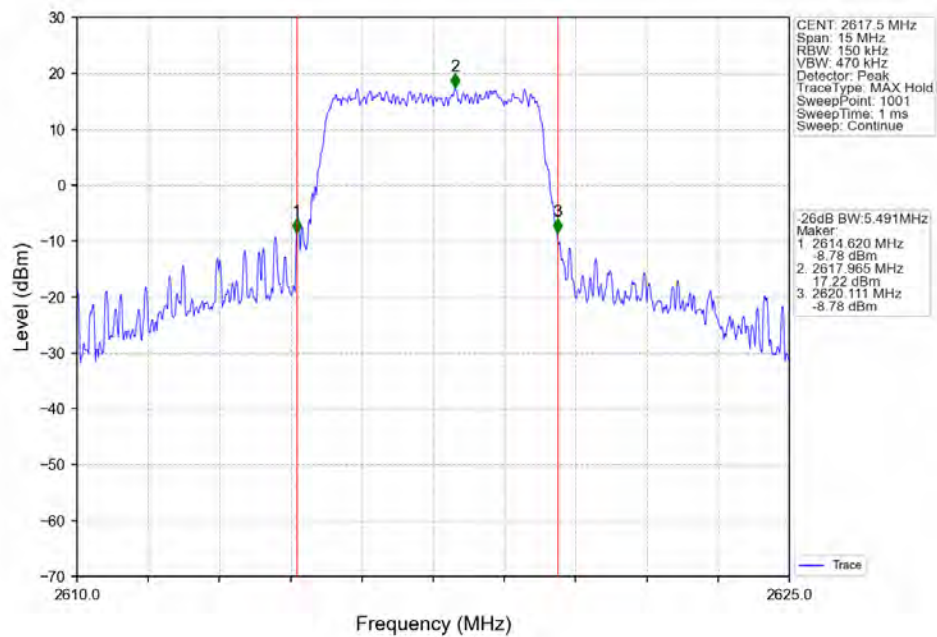


Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV

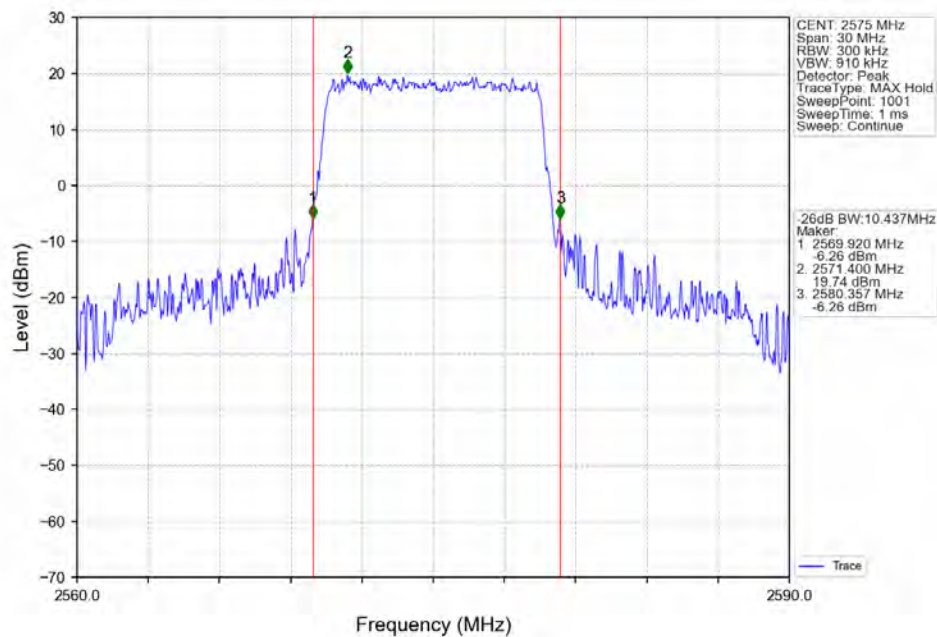




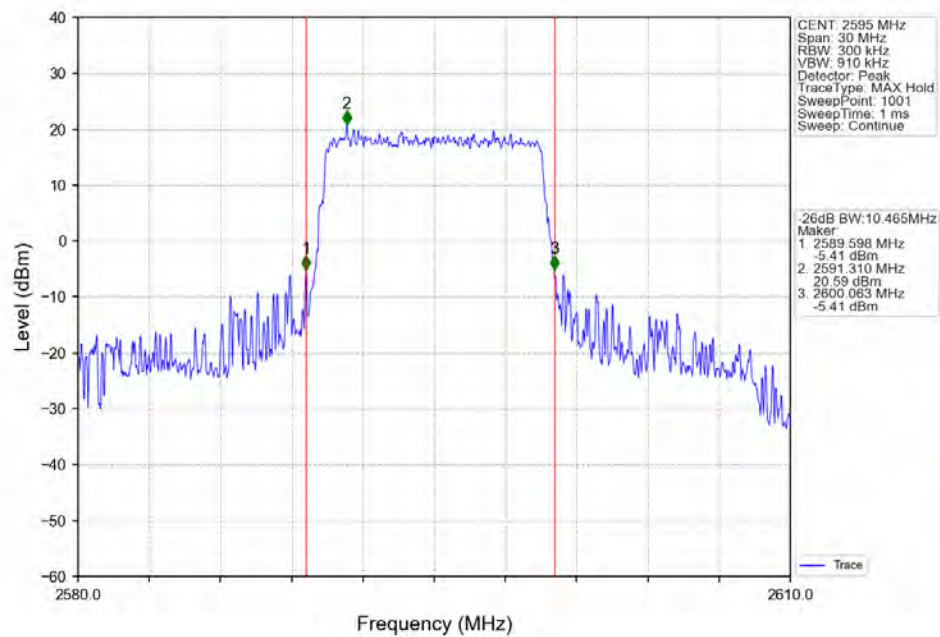
Band38 5MHz 64QAM HCH 2617.5MHz RB 25 0 NTN



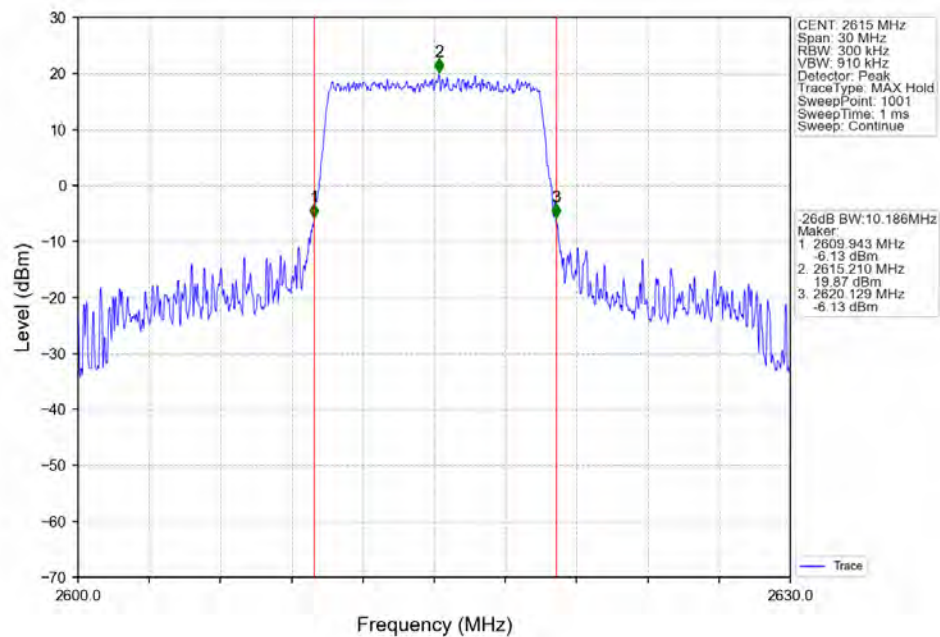
Band38\_10MHz\_QPSK\_LCH 2575MHz RB 50 0 NTN



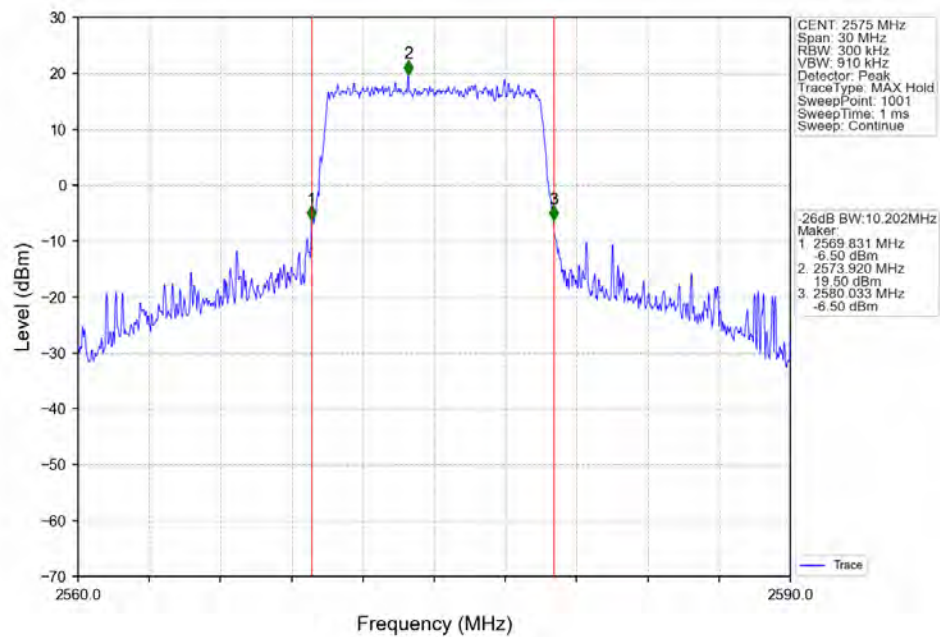
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



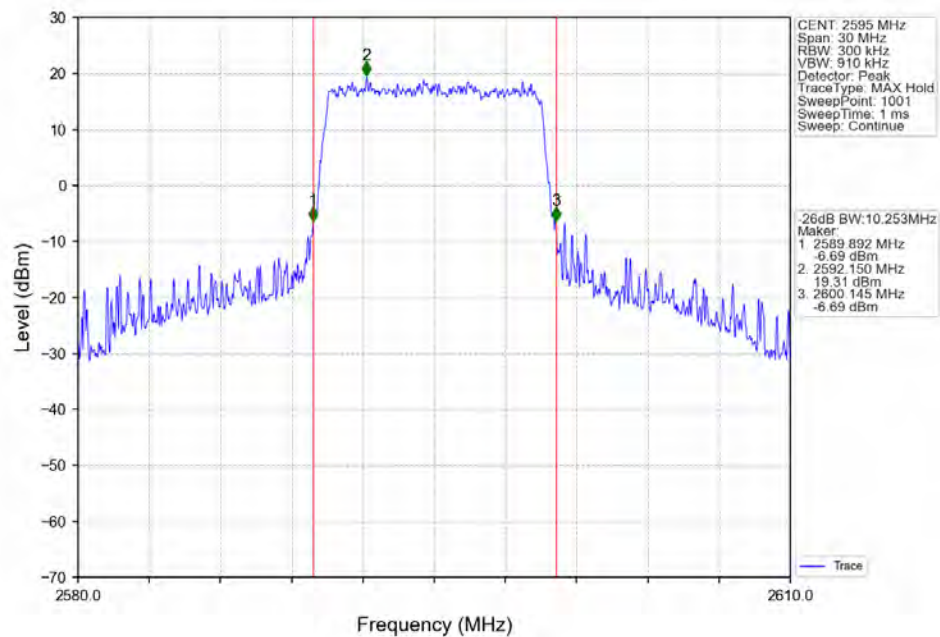
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



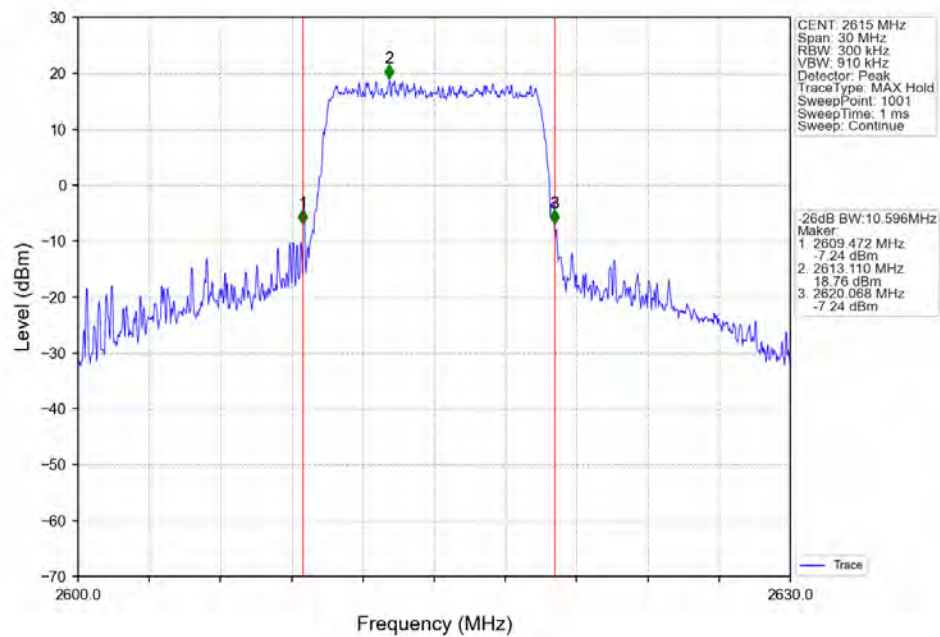
Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTNV



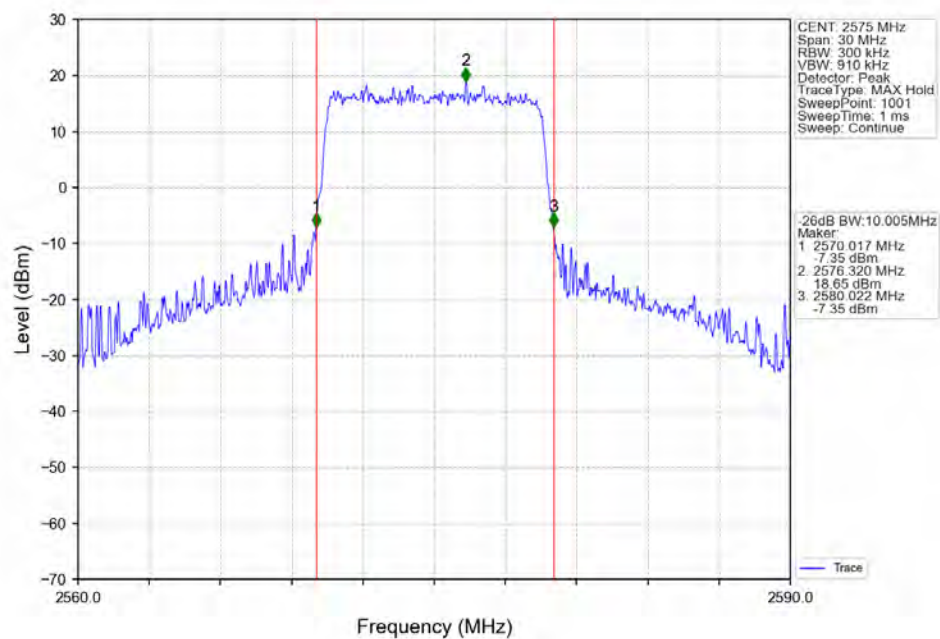
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTNV

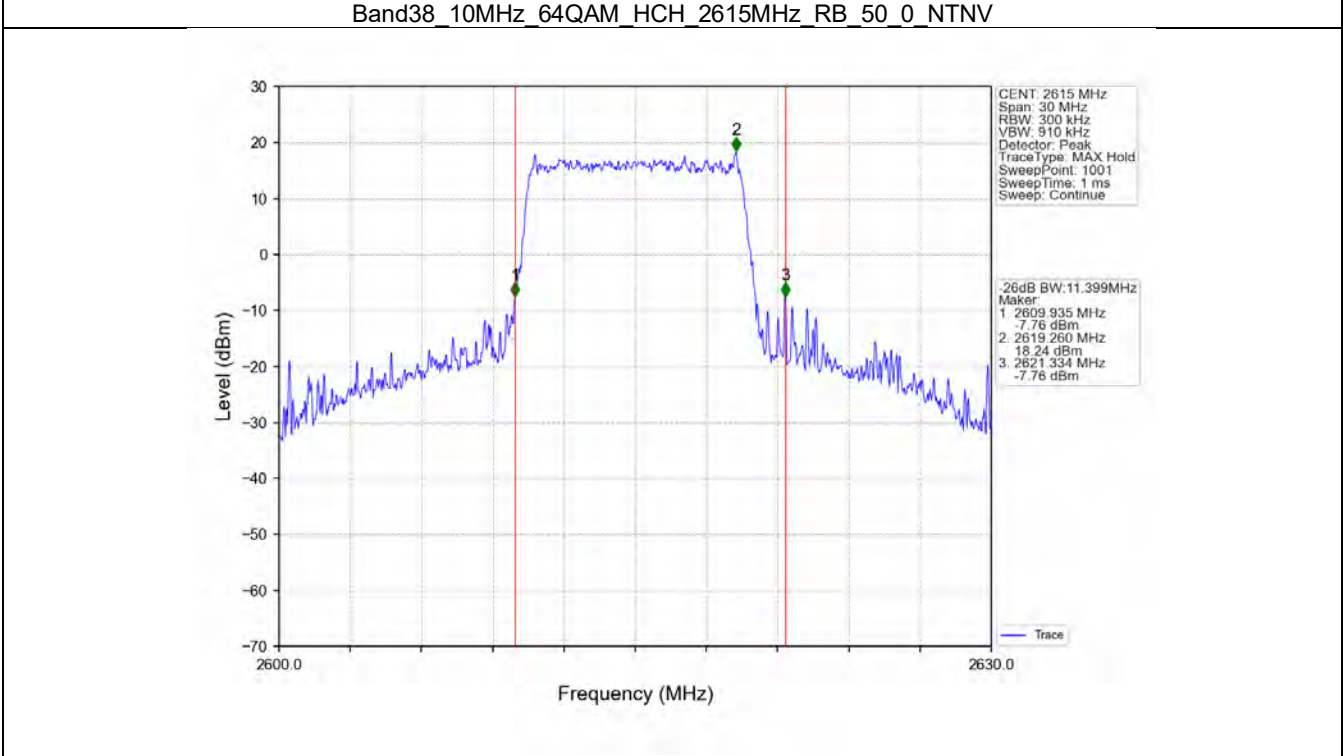
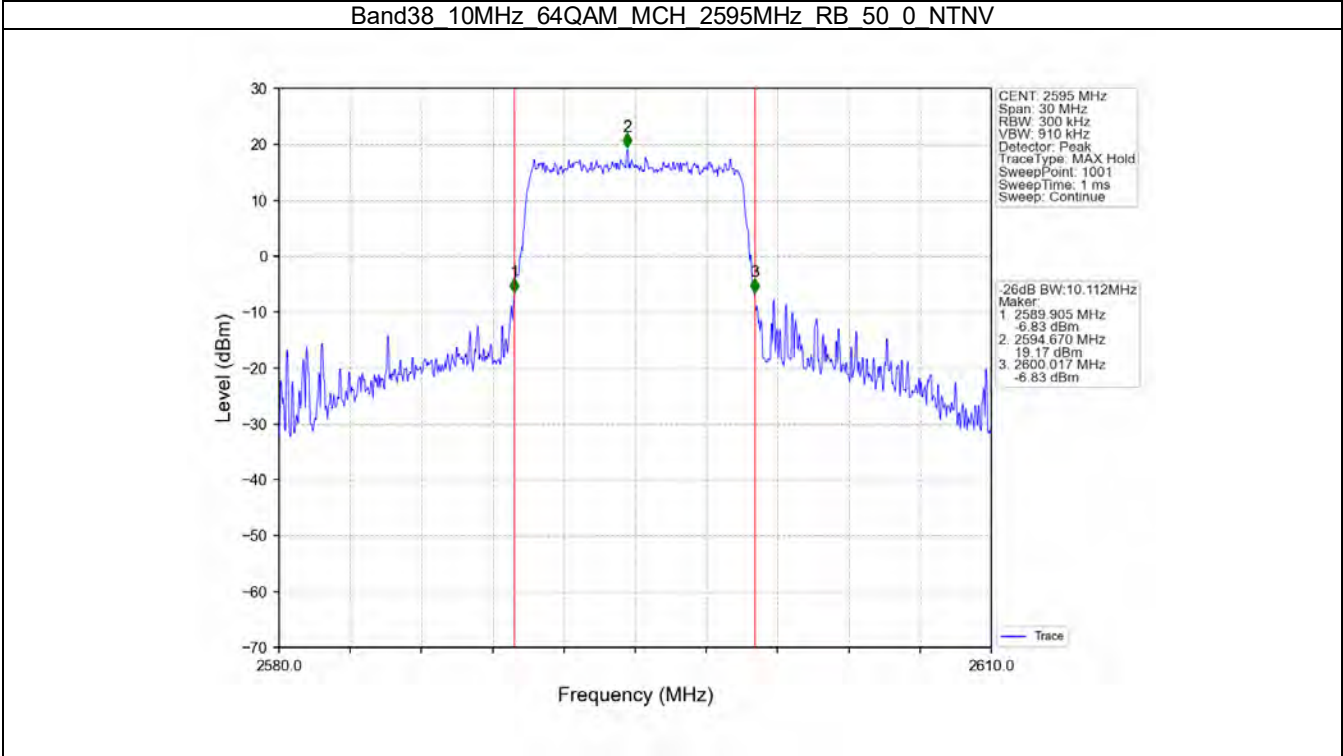


Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV

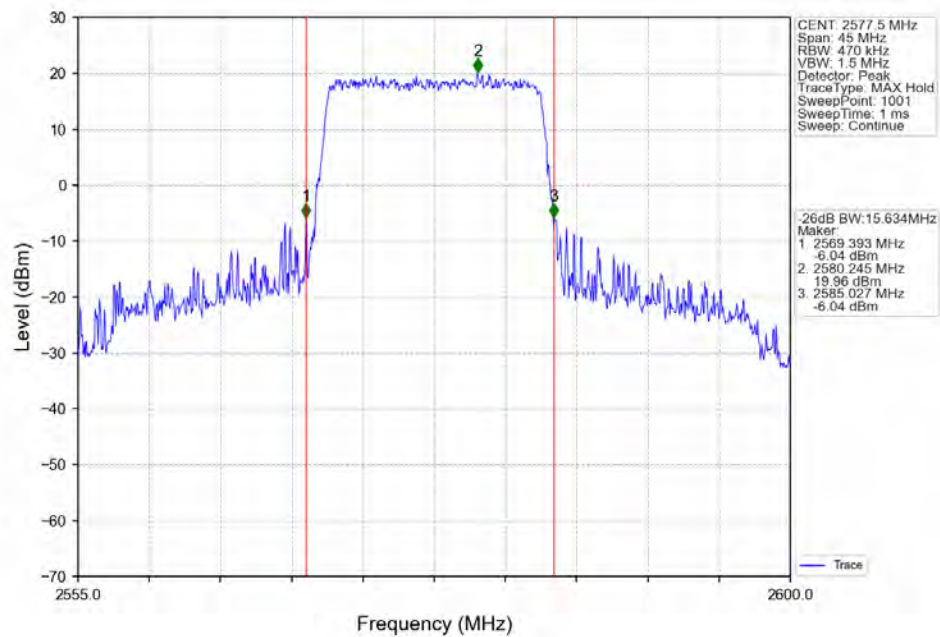


Band38\_10MHz\_64QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV

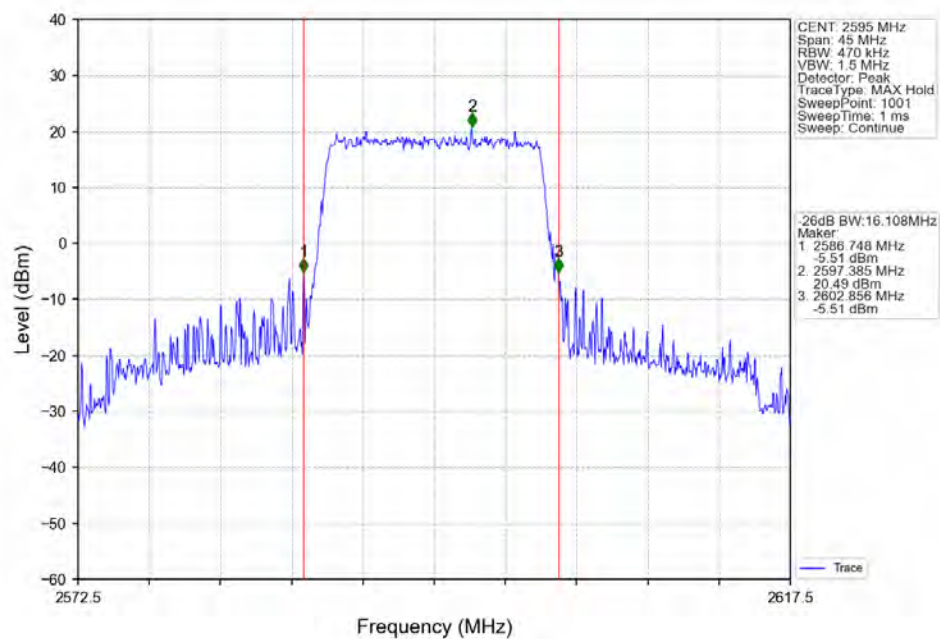




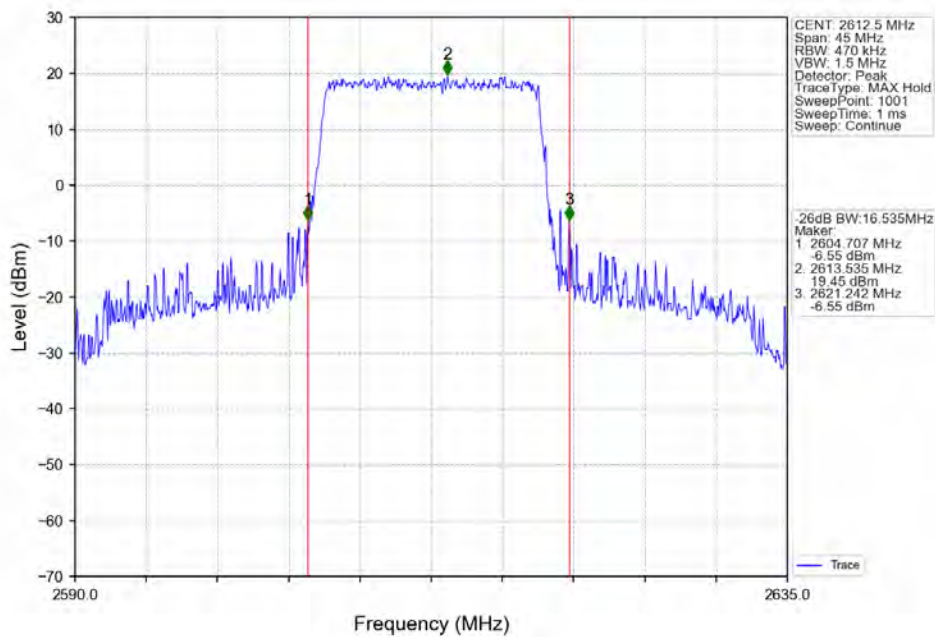
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



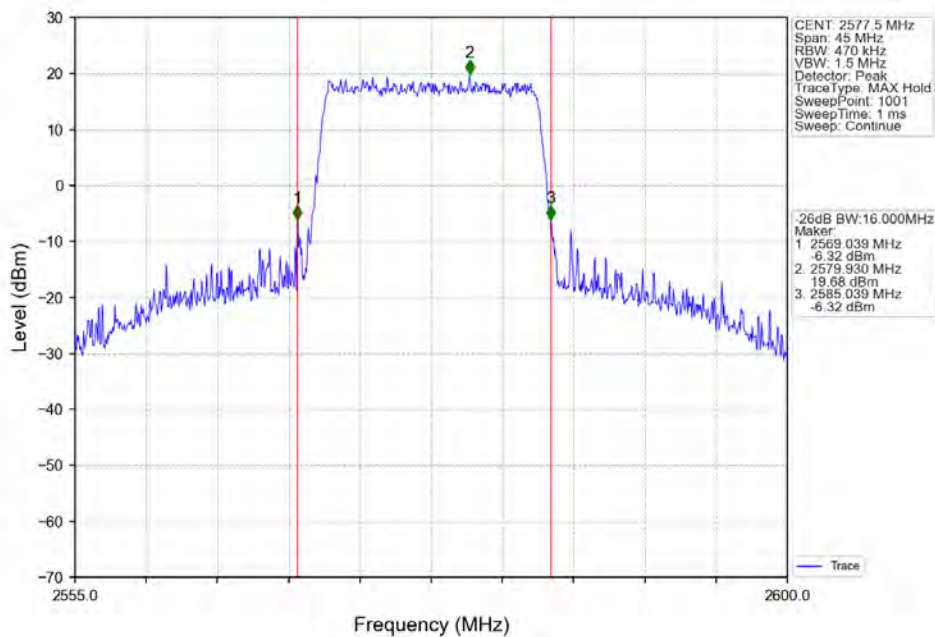
Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV



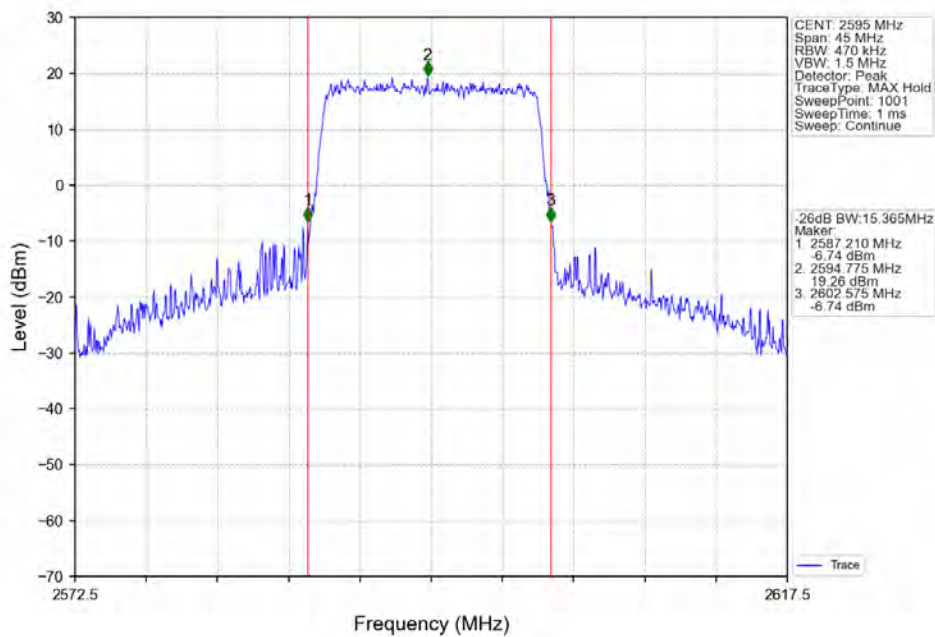
Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTN



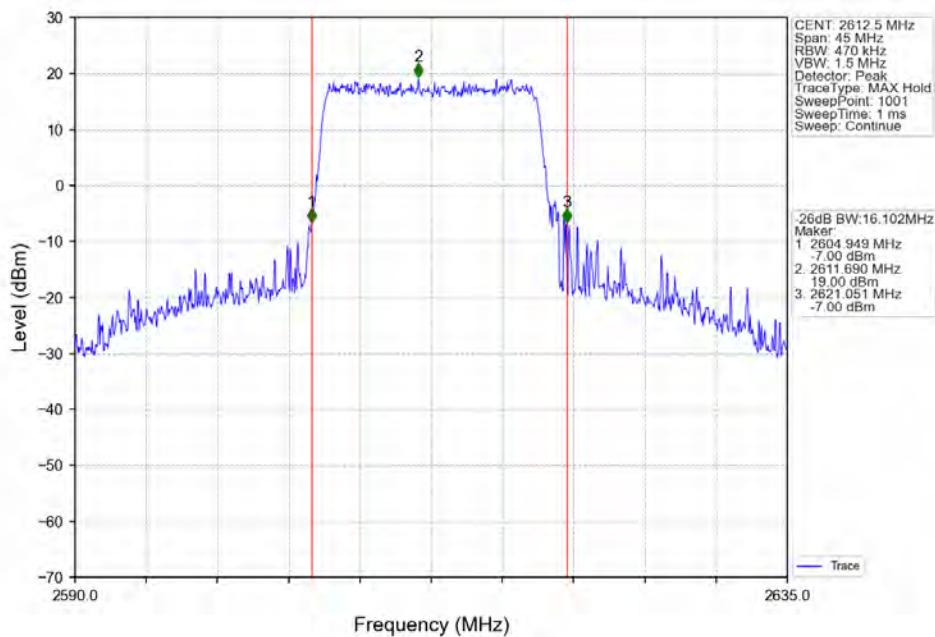
Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTN



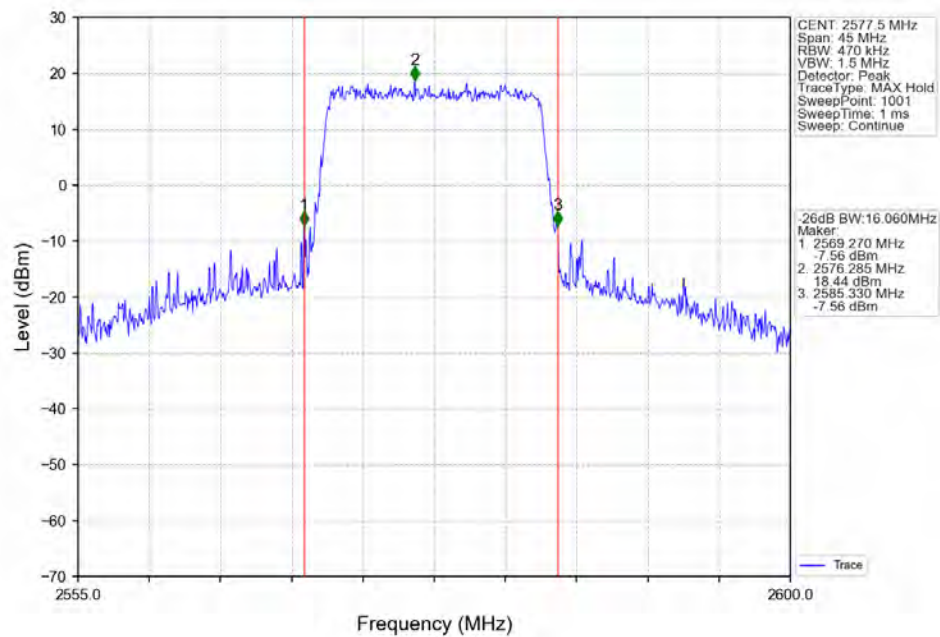
Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



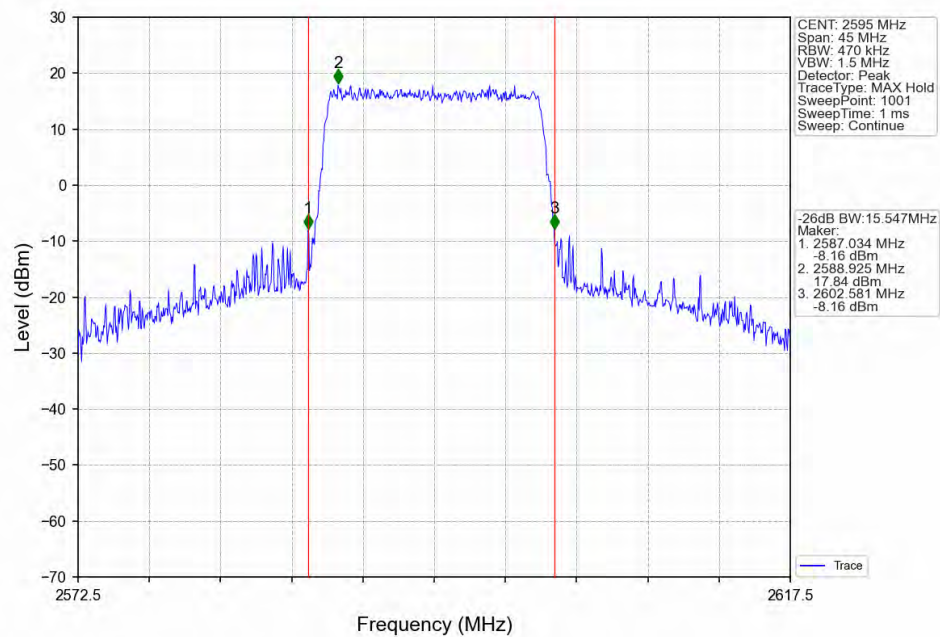
Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



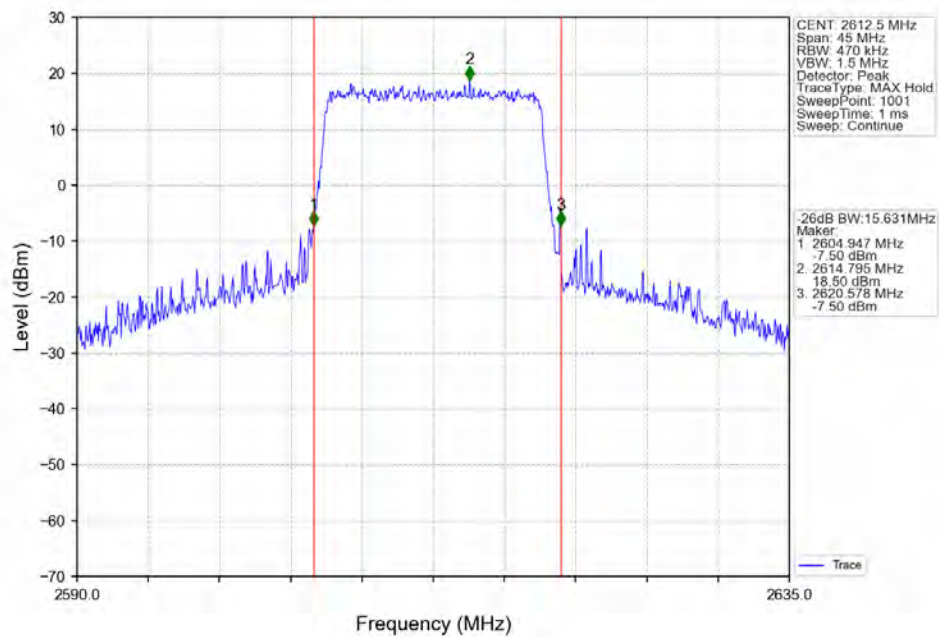
Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



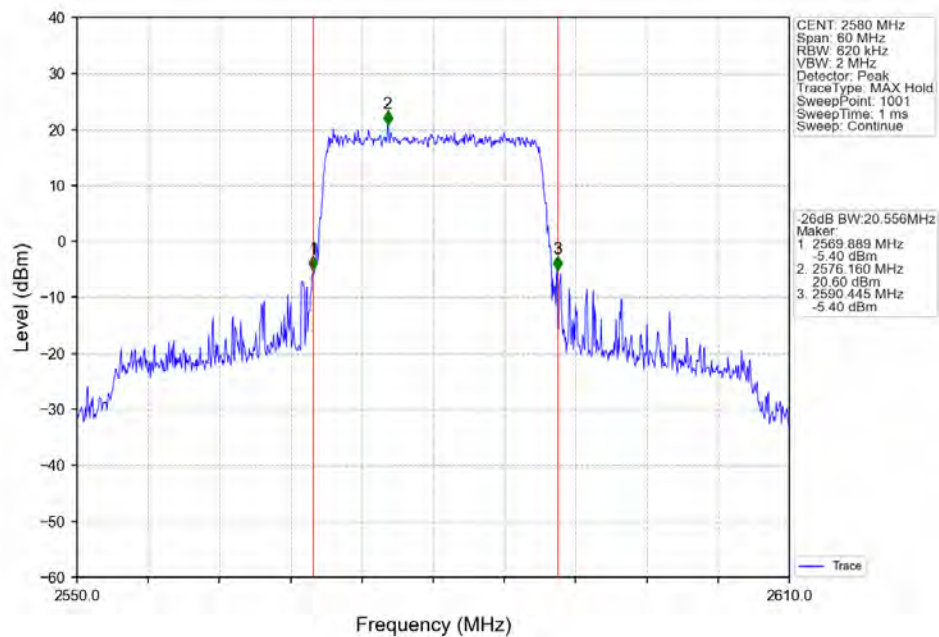
Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



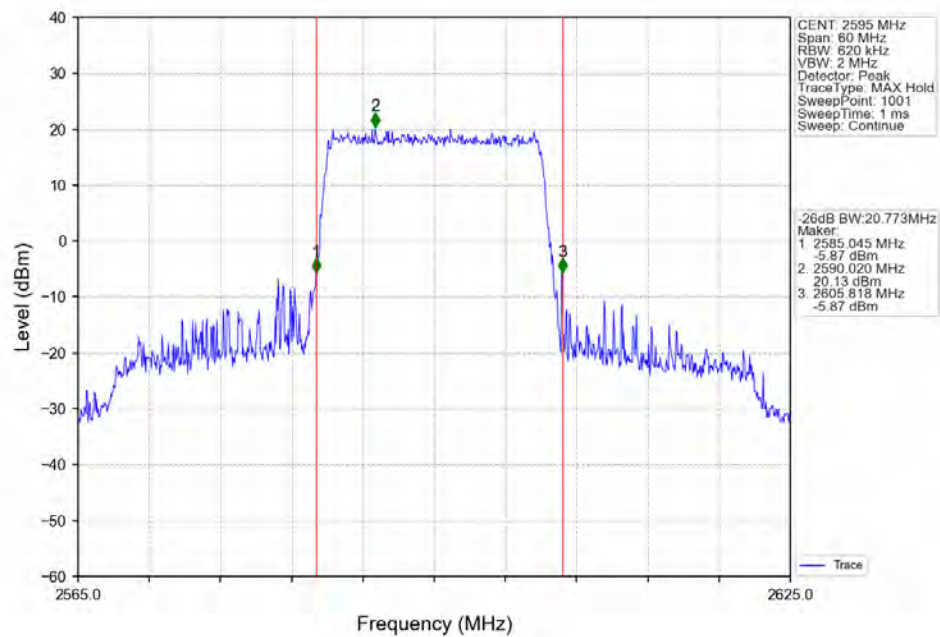
Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



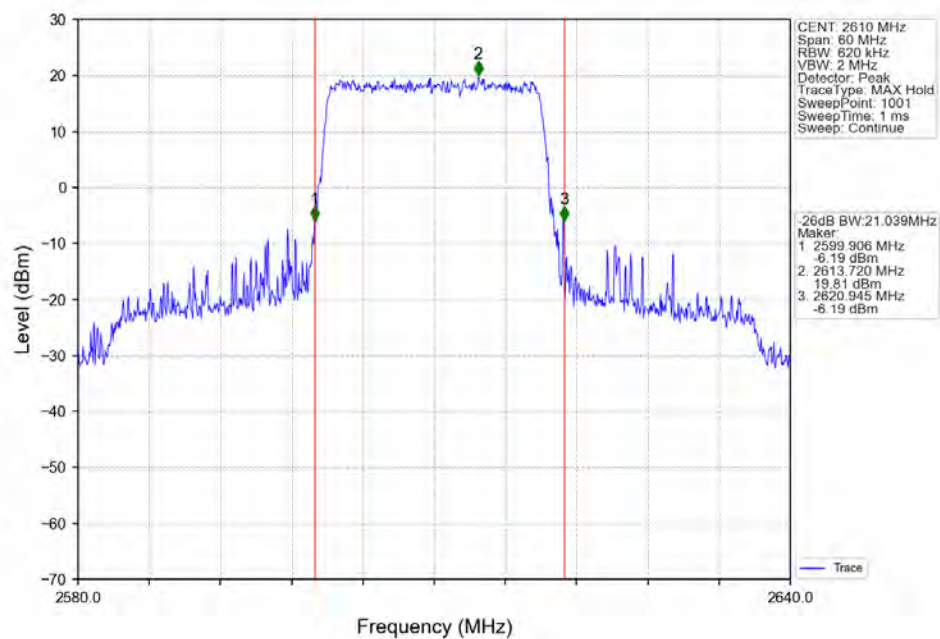
Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



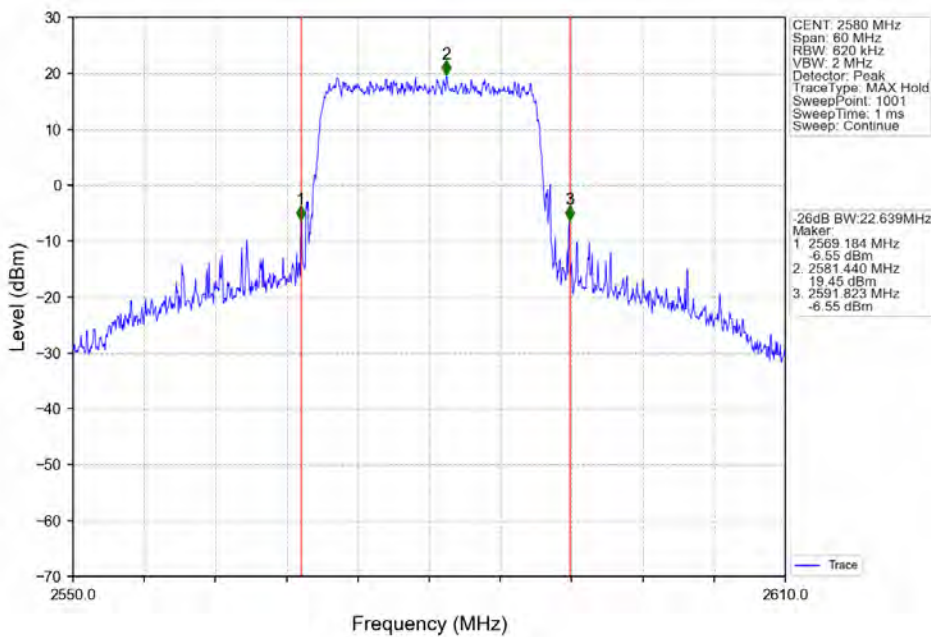
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



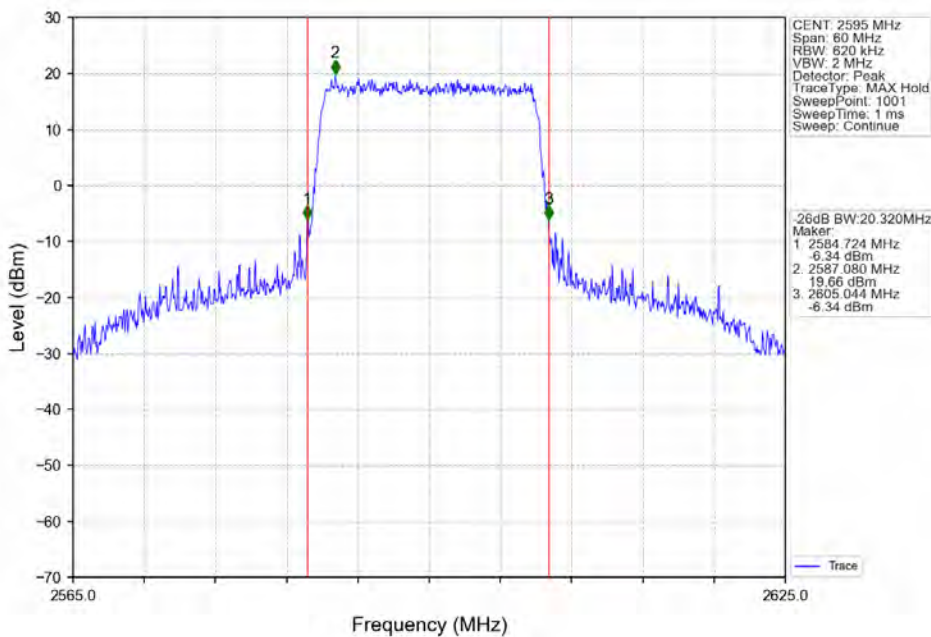
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTNV



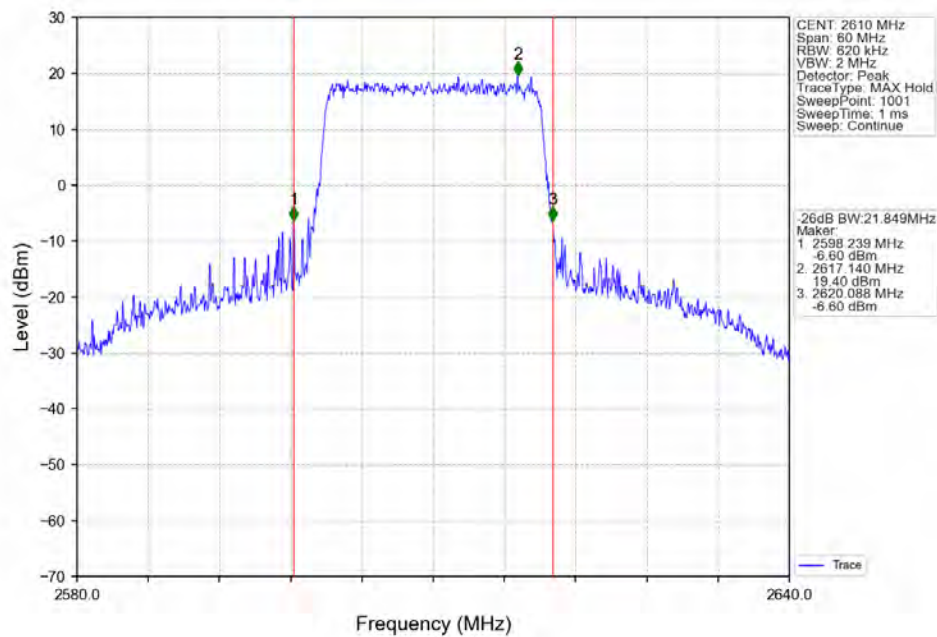
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTNV



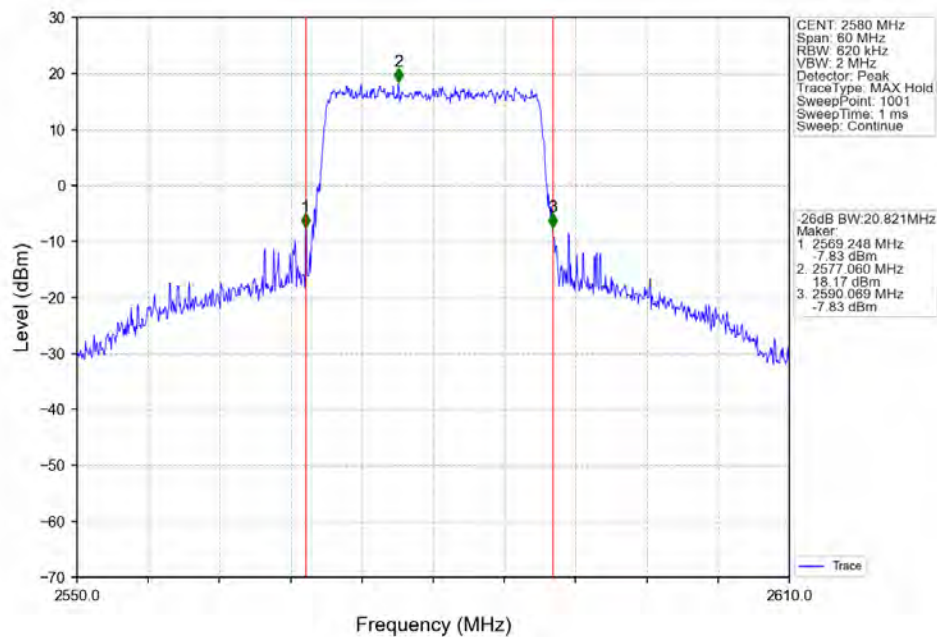
Band38 20MHz 16QAM MCH 2595MHz RB 100 0 NTNV



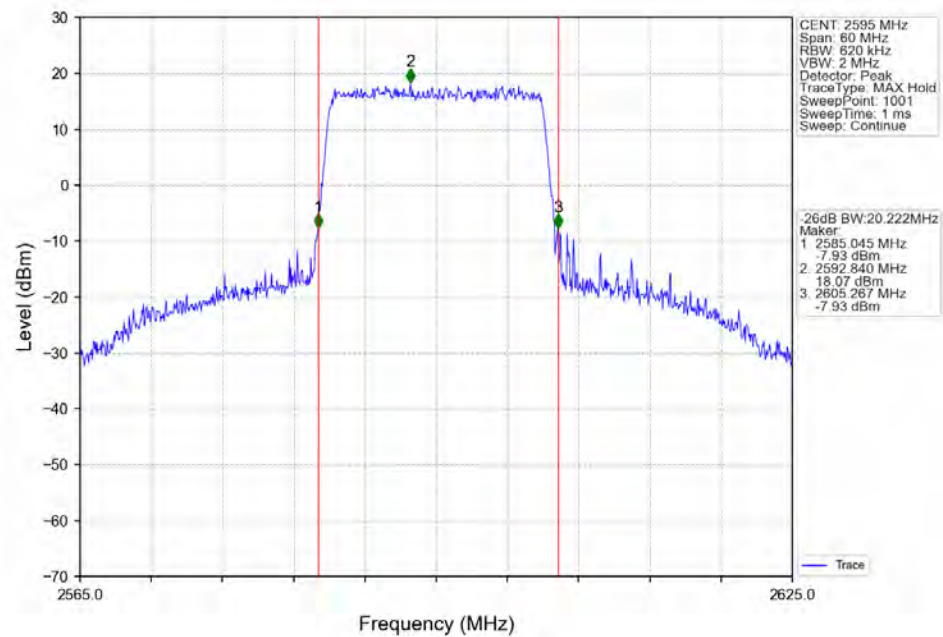
Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



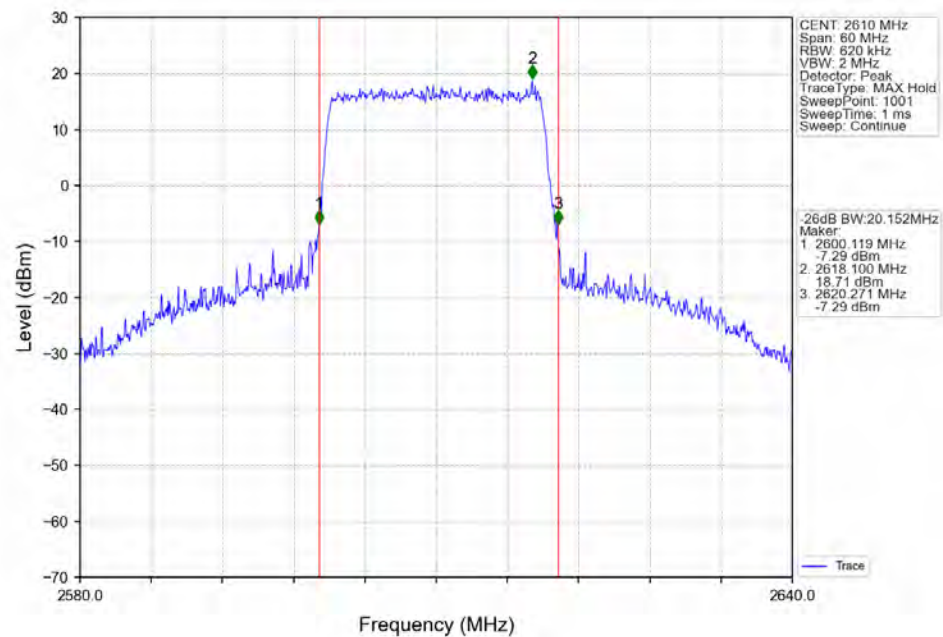
Band38\_20MHz\_64QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



## 4. Peak-Average Ratio

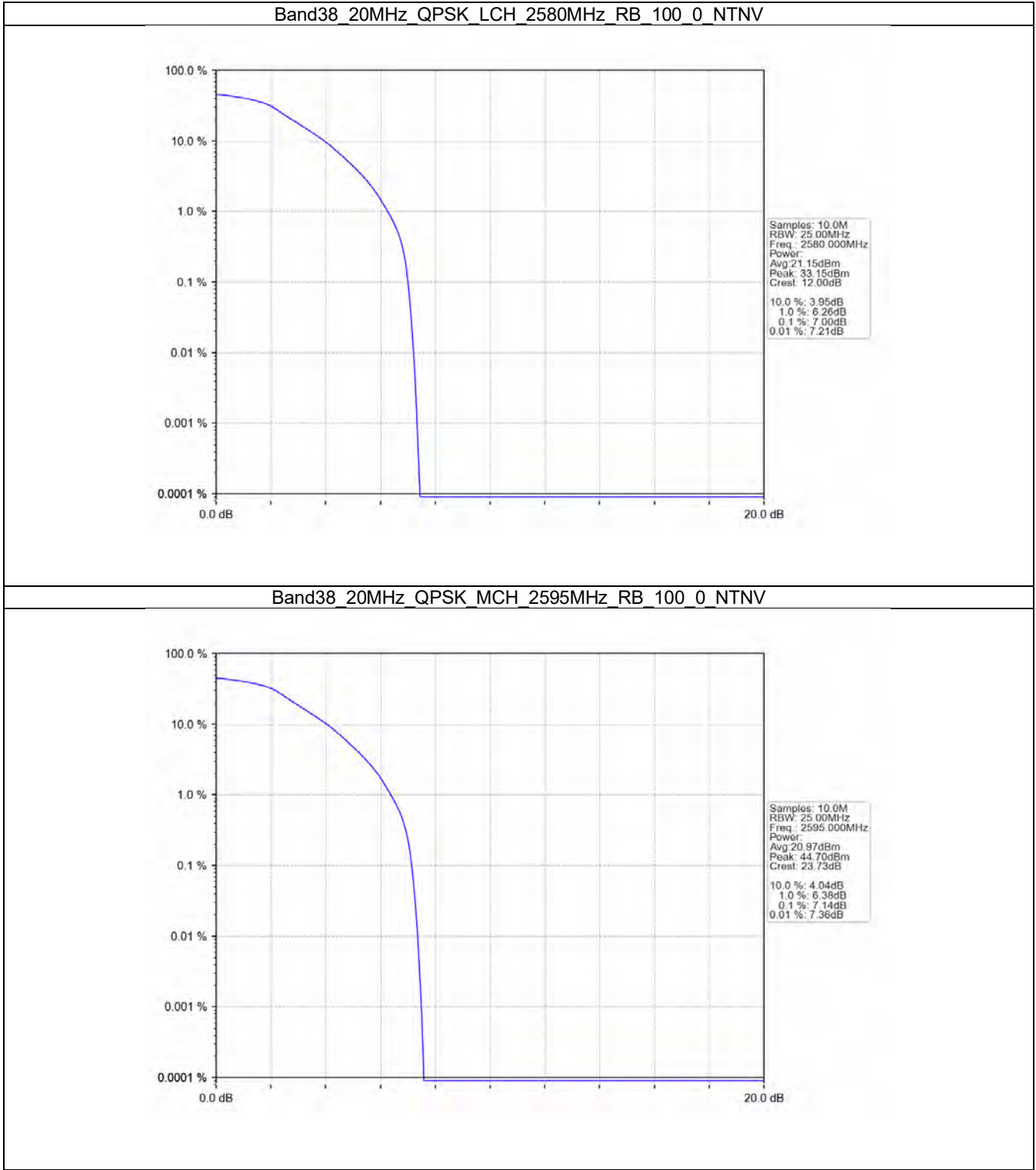
### 4.4 B38\_20MHz

#### 4.4.1 Test Result

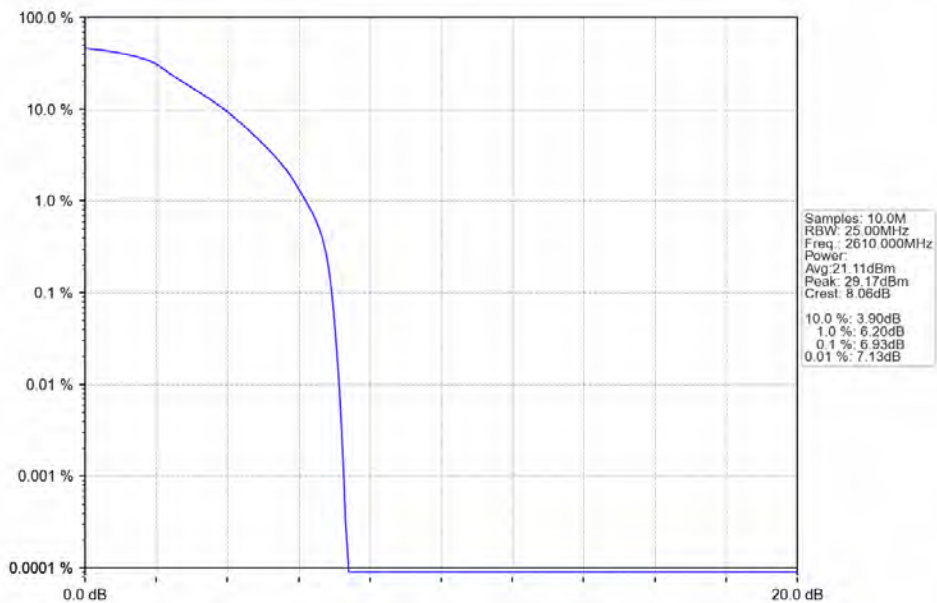
| Band: 38 / Bandwidth: 20MHz / NTN |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 2580            | 100           | 0      | 7.00                    | <=13  | Pass    |
|                                   | 2595            | 100           | 0      | 7.14                    | <=13  | Pass    |
|                                   | 2610            | 100           | 0      | 6.93                    | <=13  | Pass    |
| 16QAM                             | 2580            | 100           | 0      | 8.52                    | <=13  | Pass    |
|                                   | 2595            | 100           | 0      | 8.51                    | <=13  | Pass    |
|                                   | 2610            | 100           | 0      | 8.16                    | <=13  | Pass    |
| 64QAM                             | 2580            | 100           | 0      | 11.39                   | <=13  | Pass    |
|                                   | 2595            | 100           | 0      | 11.21                   | <=13  | Pass    |
|                                   | 2610            | 100           | 0      | 11.53                   | <=13  | Pass    |

4.4 B38\_20MHz

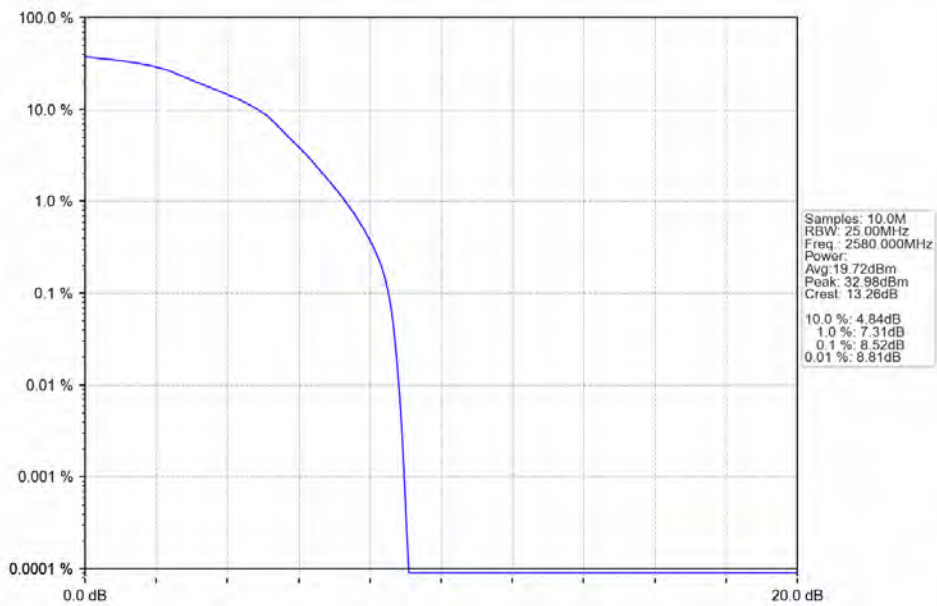
4.4.2 Test Graph



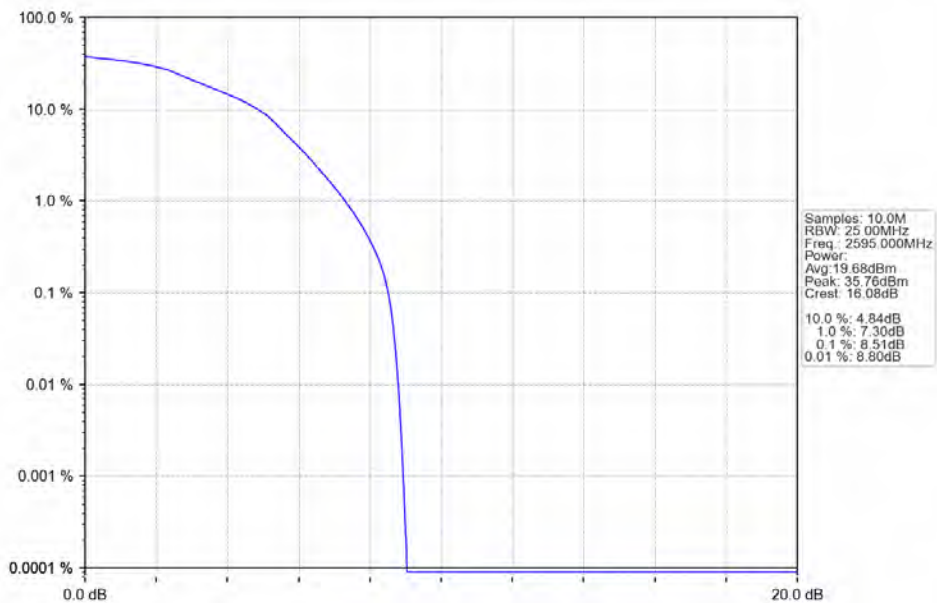
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTNV



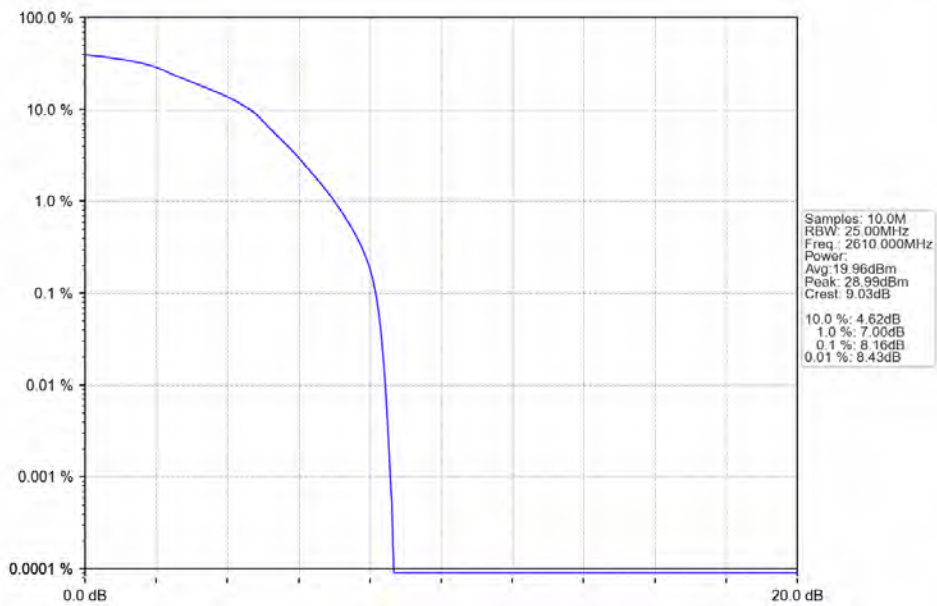
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTNV



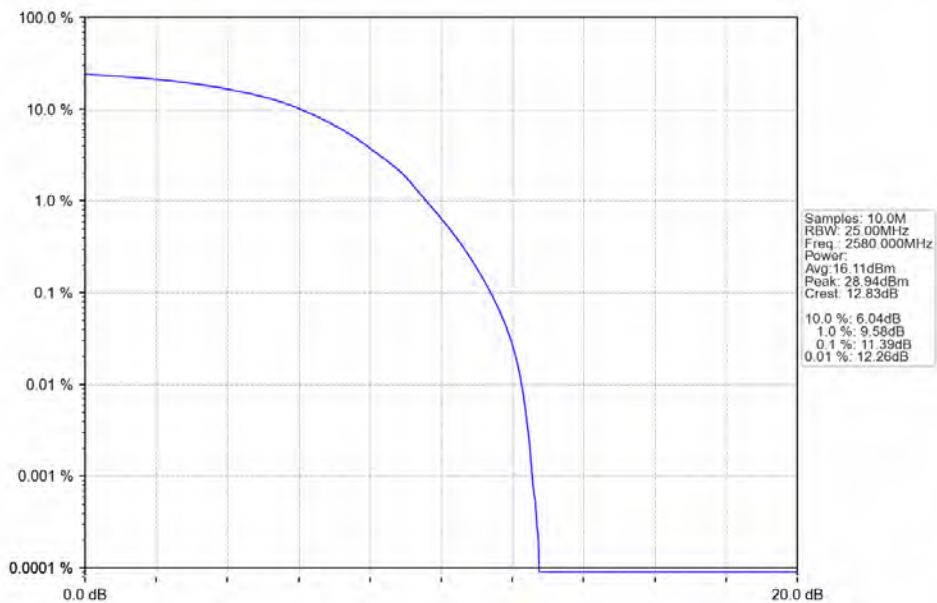
Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



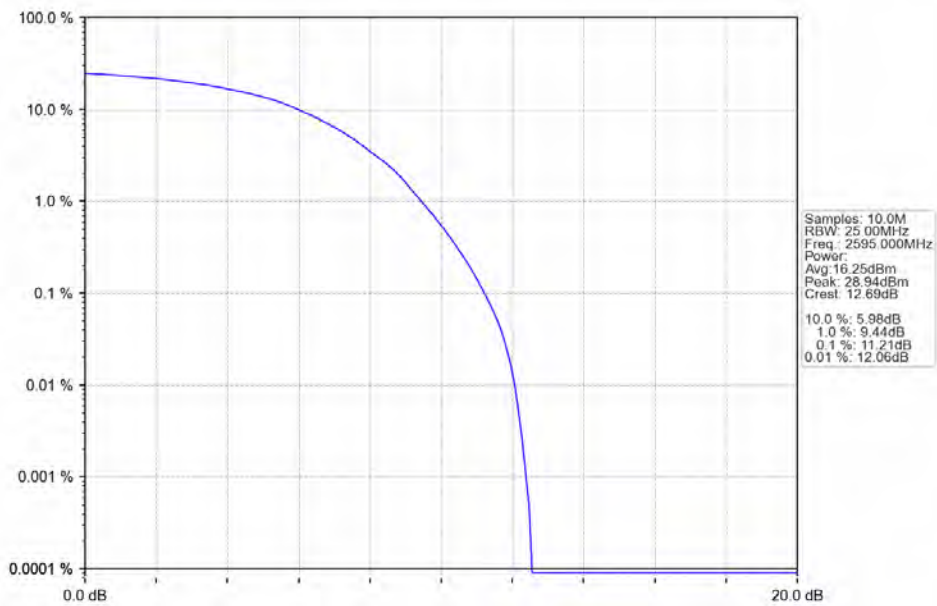
Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38 20MHz 64QAM LCH 2580MHz RB 100 0 NTN



Band38 20MHz 64QAM MCH 2595MHz RB 100 0 NTN





## 5. Spurious Emission

### 5.1 B38\_5MHz

#### 5.1.1 Test Result

| Band: 38 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 2572.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2595            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2617.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

### 5.2 B38\_10MHz

#### 5.2.1 Test Result

| Band: 38 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |                     |         |
|------------------------------------|-----------------|---------------|--------|---------------------|---------------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |                     | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit               |         |
| QPSK                               | 2575            | 1             | 0      | Refer To Test Graph |                     | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |                     | Pass    |
|                                    | 2595            | 1             | 0      | Refer To Test Graph |                     | Pass    |
|                                    |                 | 2615          | 1      | 0                   | Refer To Test Graph |         |
|                                    | 49              |               |        | Refer To Test Graph |                     | Pass    |
|                                    | 50              |               | 0      | Refer To Test Graph |                     | Pass    |

### 5.3 B38\_15MHz

#### 5.3.1 Test Result

| Band: 38 / Bandwidth: 15MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 2577.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2595            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2612.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |

### 5.4 B38\_20MHz

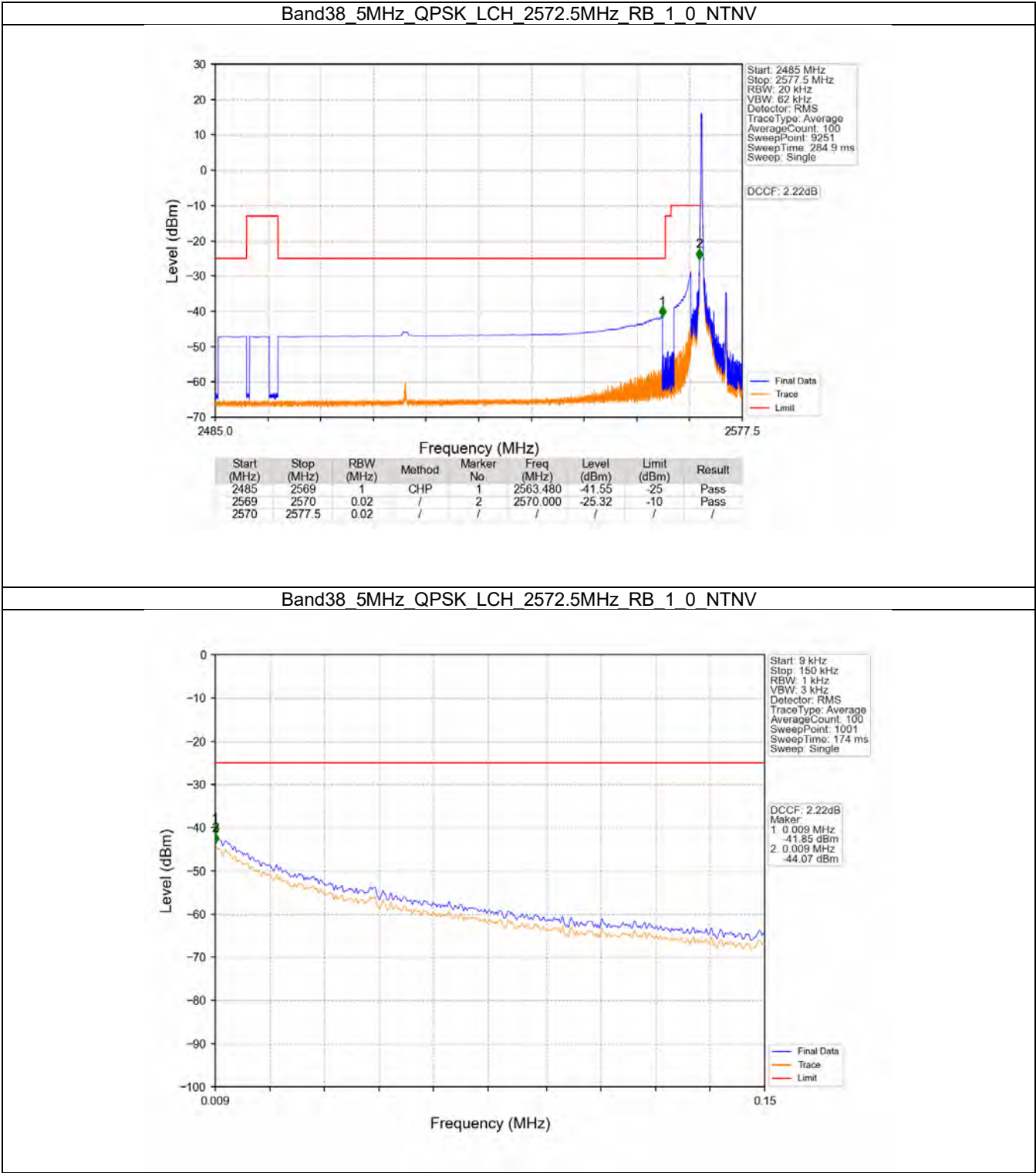
#### 5.4.1 Test Result

| Band: 38 / Bandwidth: 20MHz / NTNV |           |               |                   |         |
|------------------------------------|-----------|---------------|-------------------|---------|
| Modulation                         | Frequency | RB Allocation | Spurious Emission | Verdict |

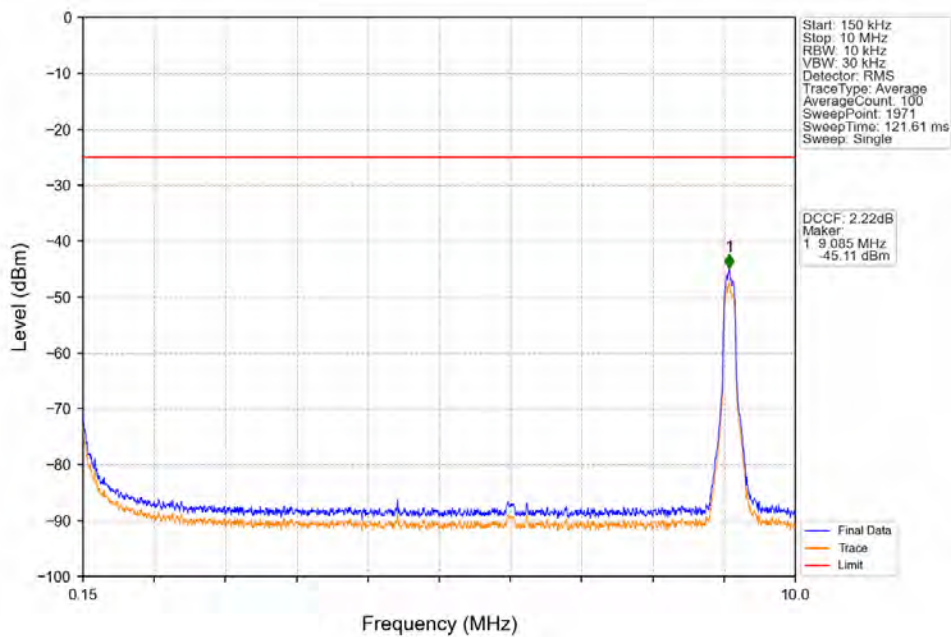
|      | (MHz) | Size | Offset | Result              | Limit |      |
|------|-------|------|--------|---------------------|-------|------|
| QPSK | 2580  | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       | 100  | 0      | Refer To Test Graph |       | Pass |
|      | 2595  | 1    | 0      | Refer To Test Graph |       | Pass |
|      | 2610  | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       |      | 99     | Refer To Test Graph |       | Pass |
|      |       | 100  | 0      | Refer To Test Graph |       | Pass |

5.1 B38\_5MHz

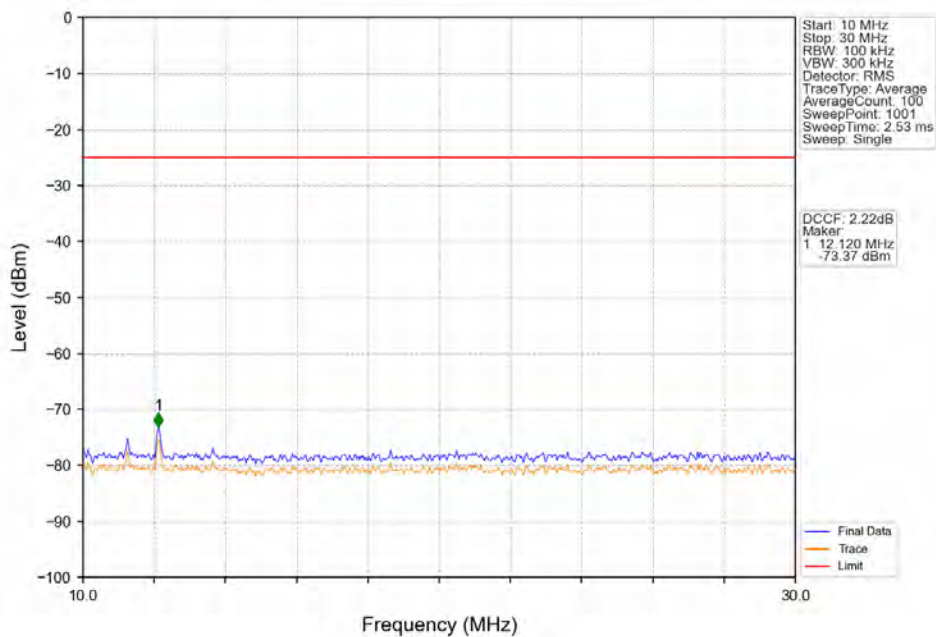
5.1.2 Test Graph



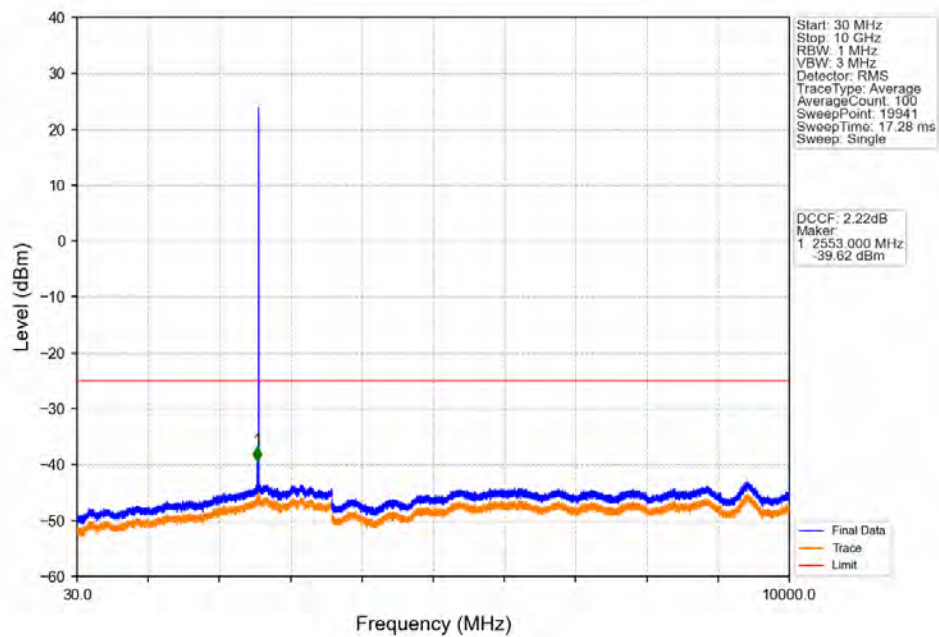
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



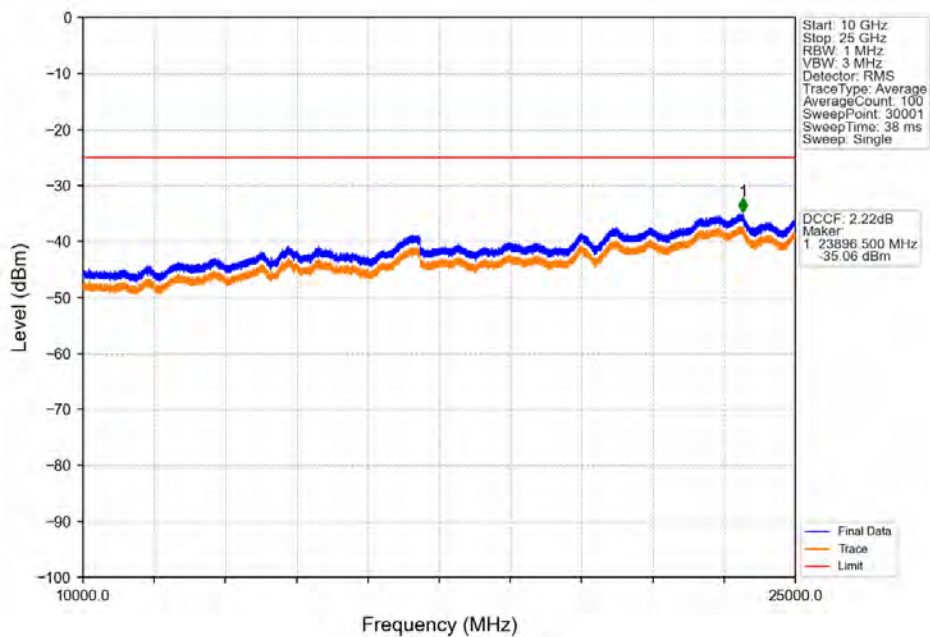
Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_1\_0\_NTV



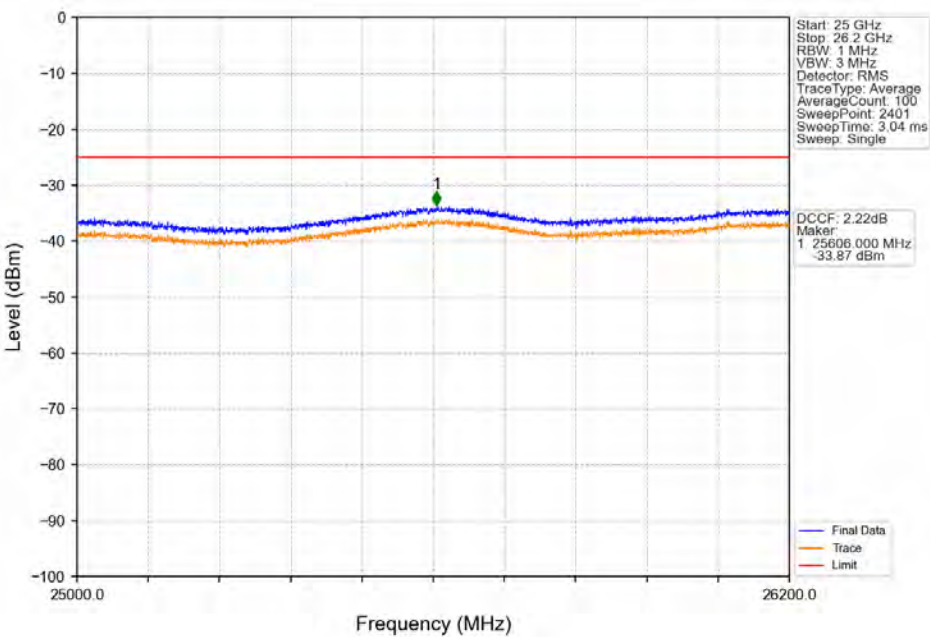
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNV



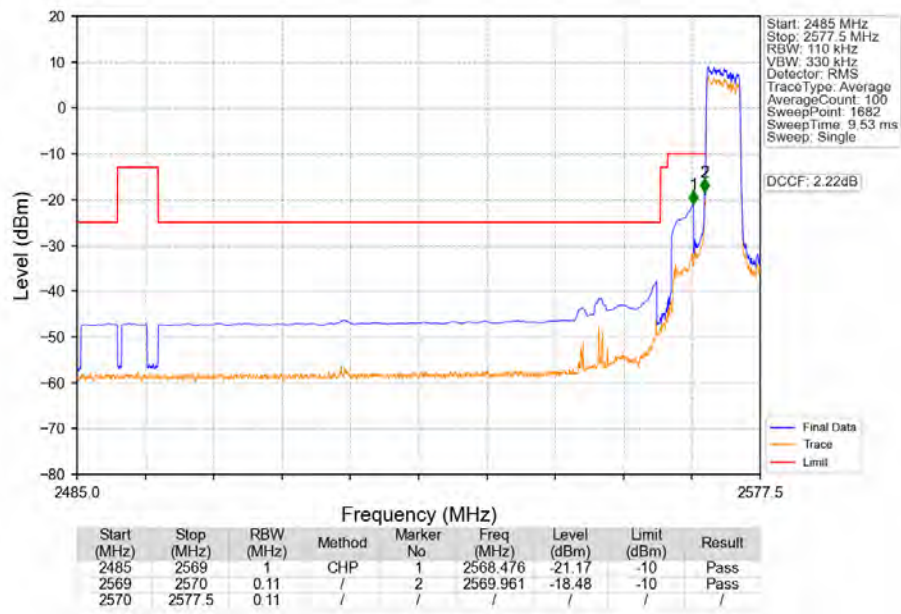
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNV



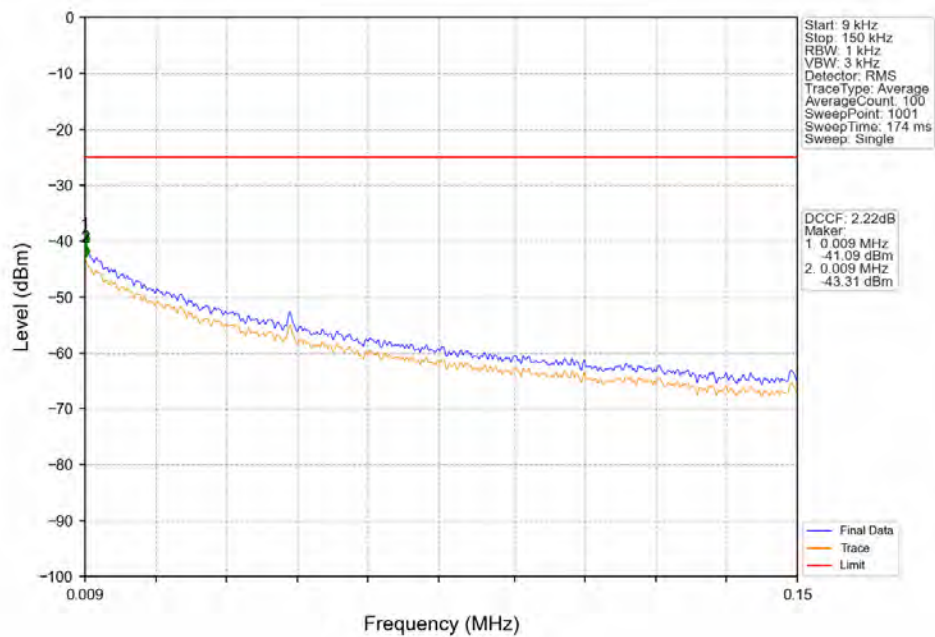
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



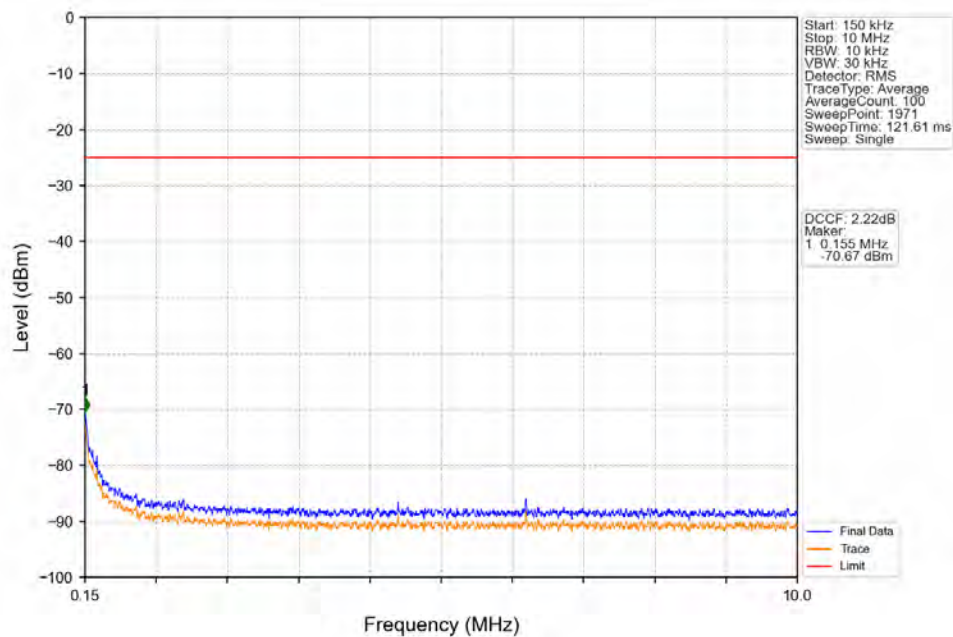
Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_25\_0\_NTV



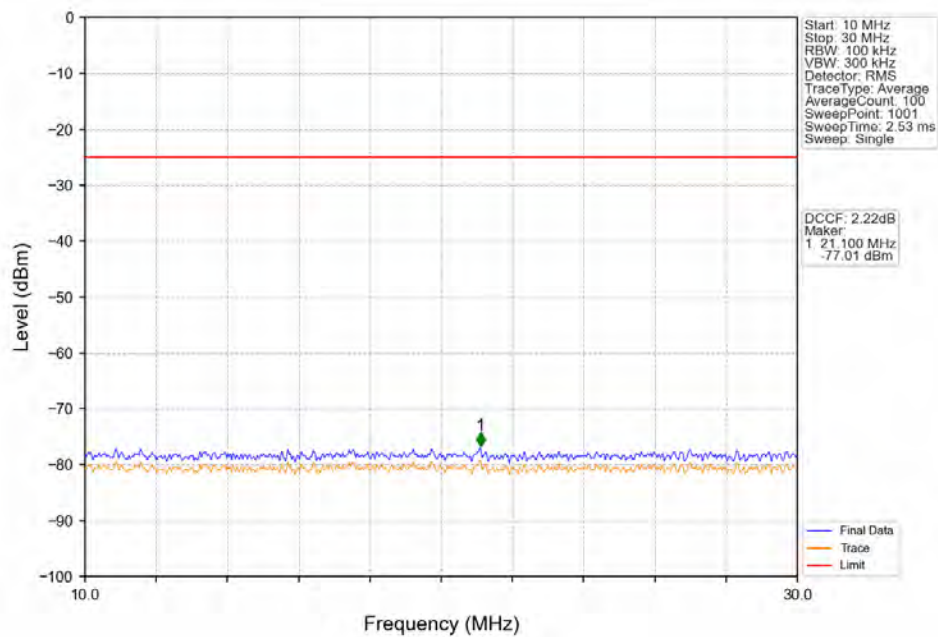
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



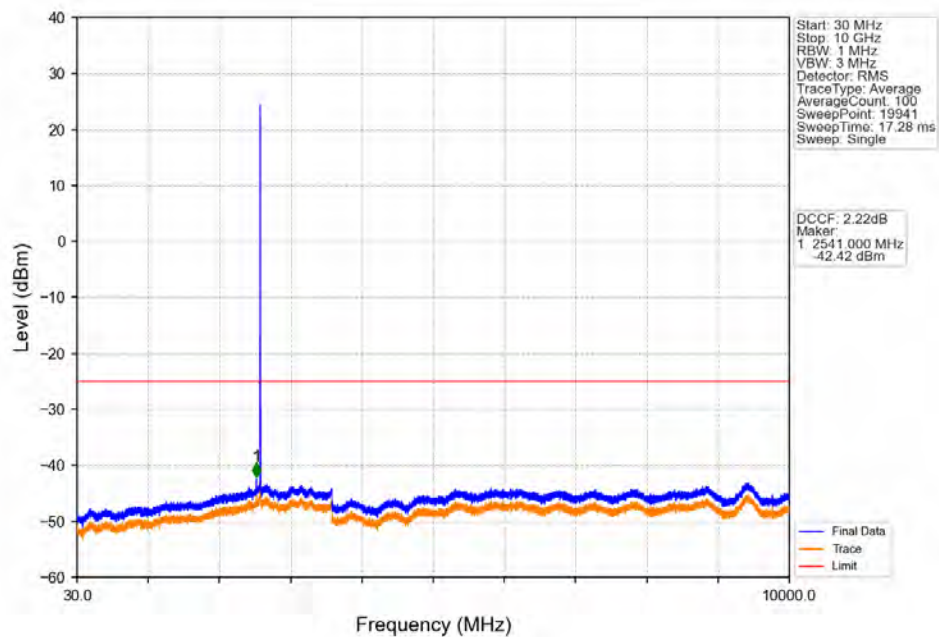
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



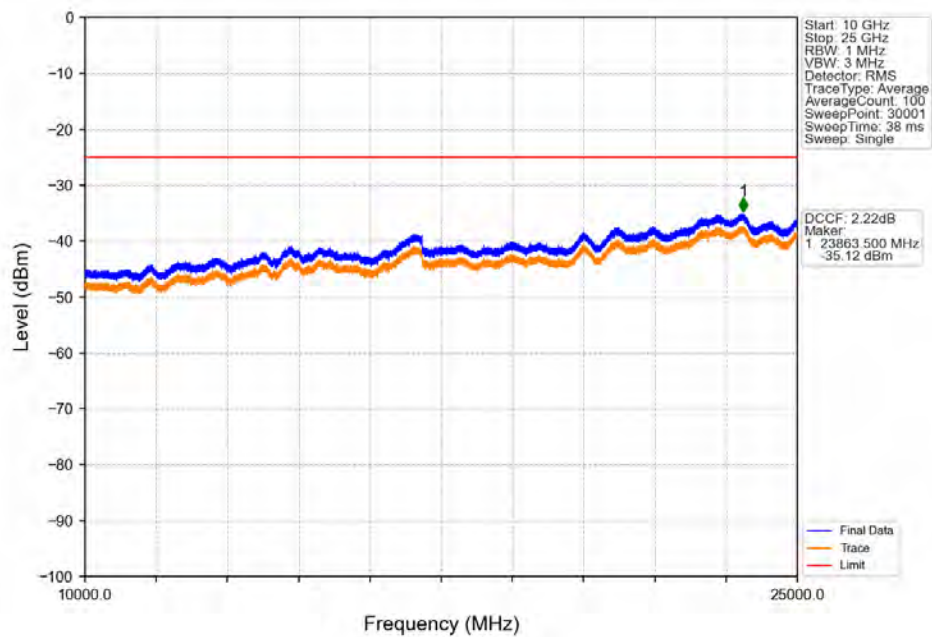
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



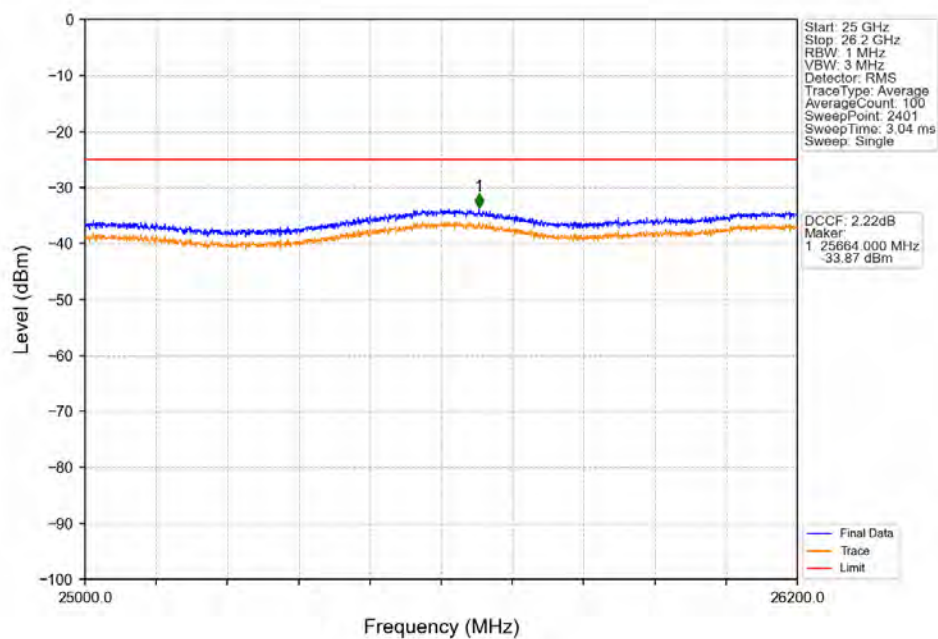
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



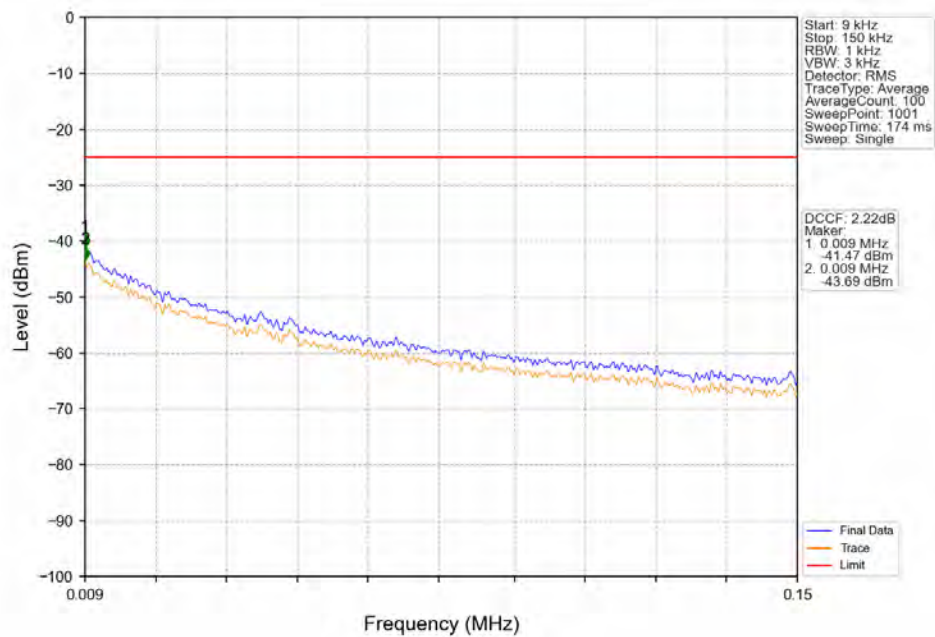
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



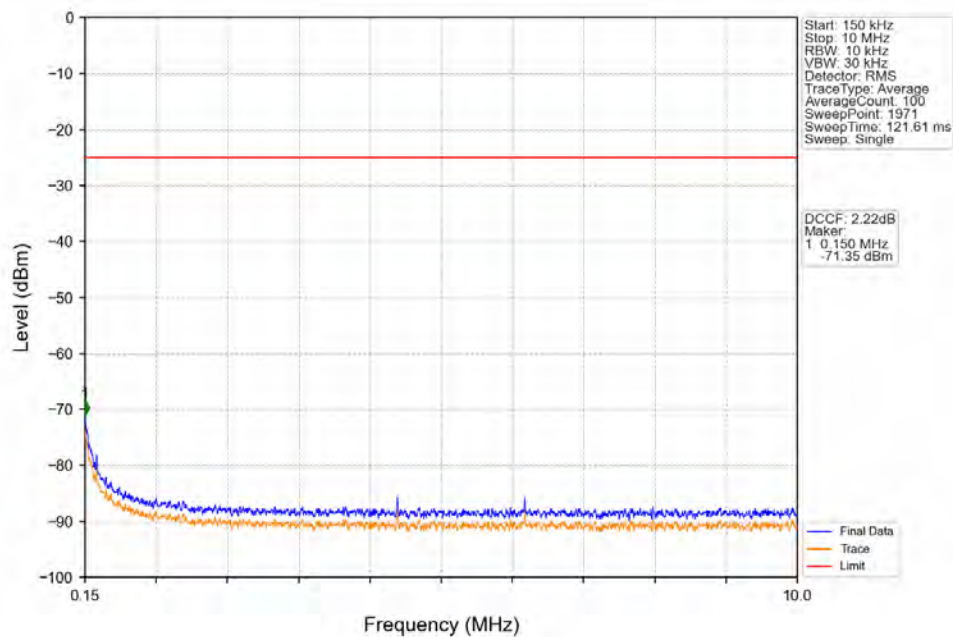
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



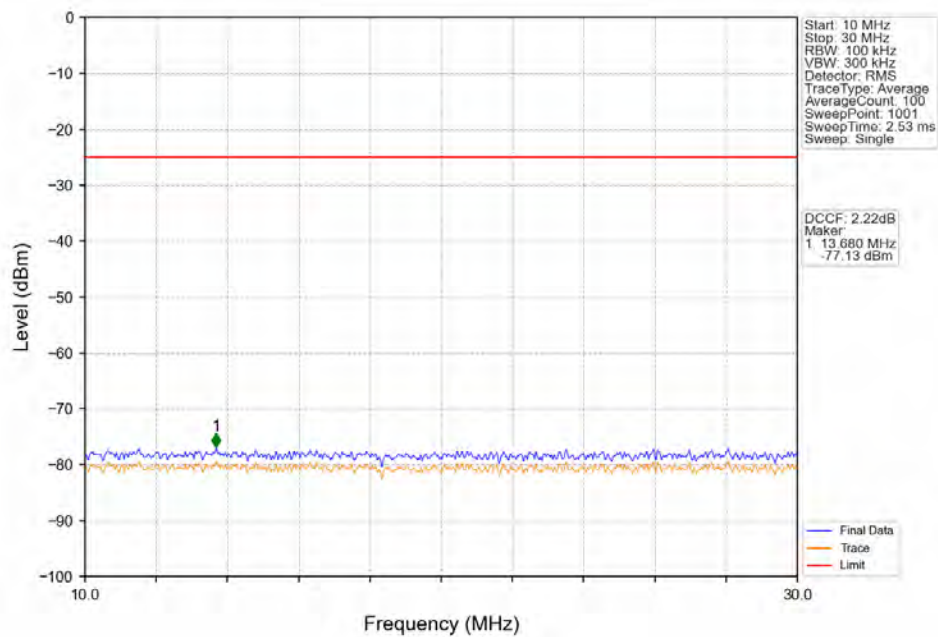
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



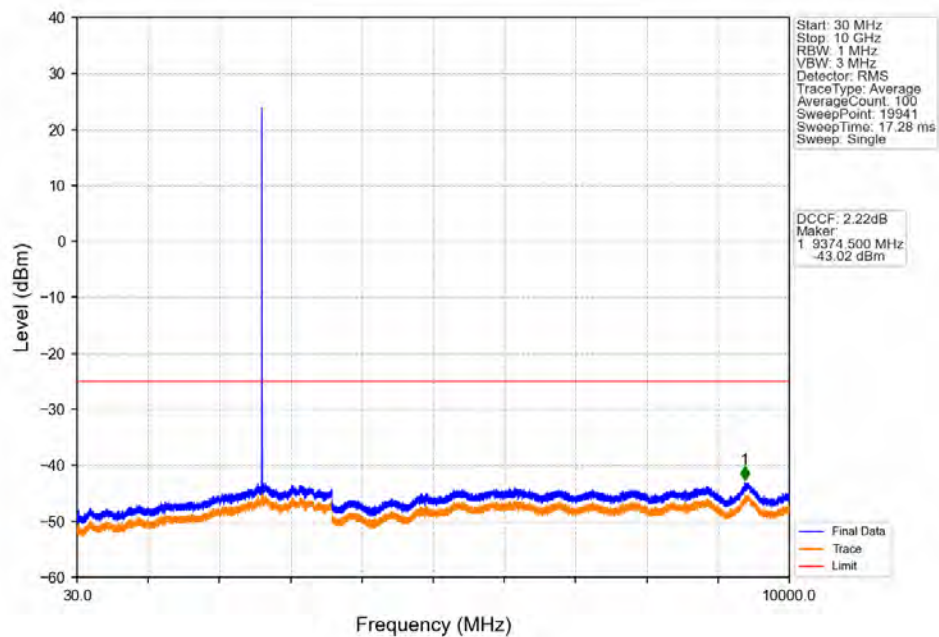
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



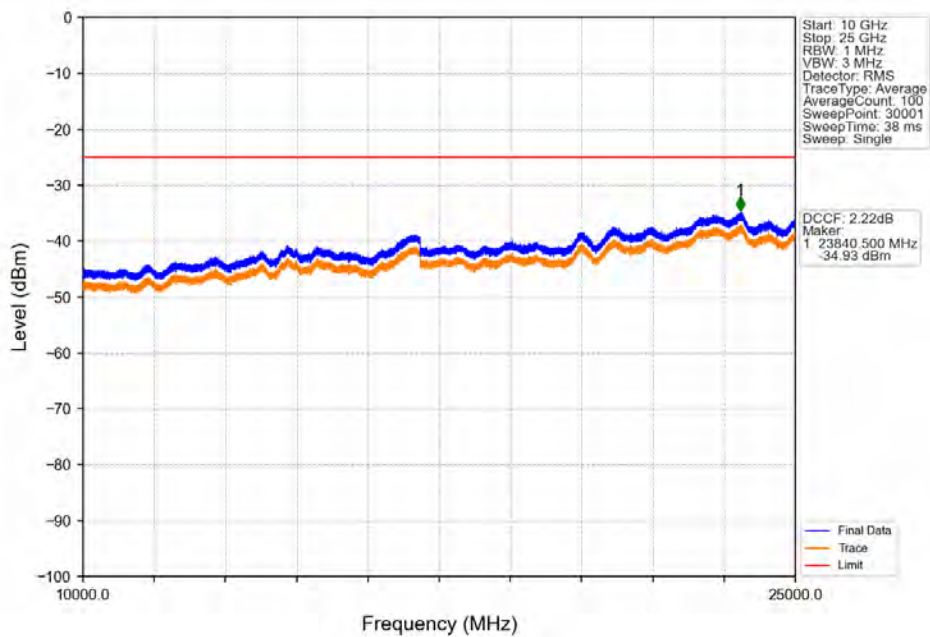
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



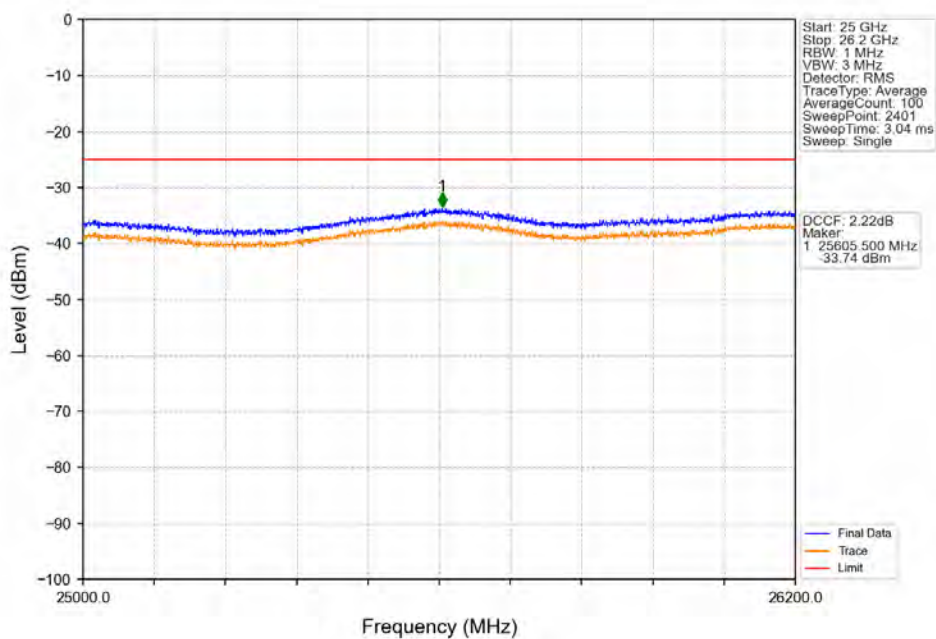
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



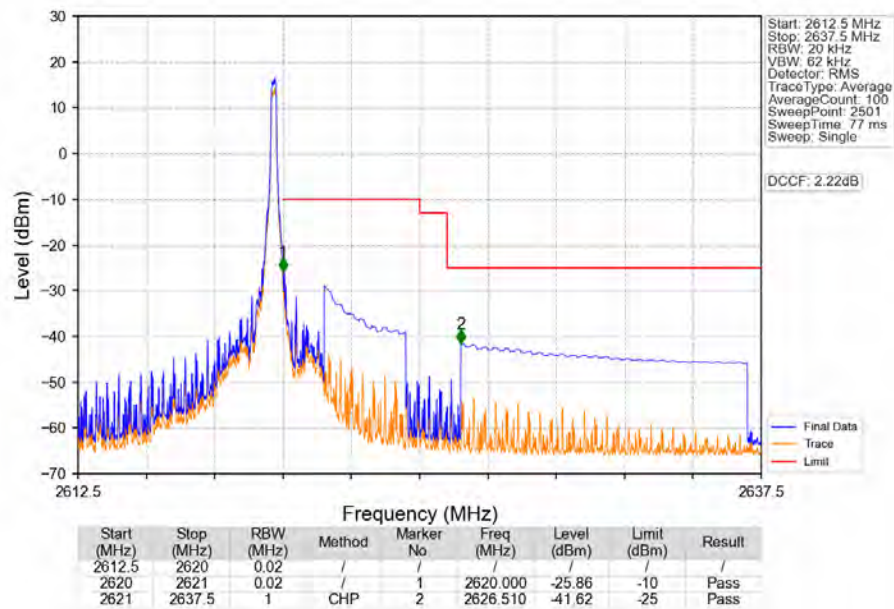
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



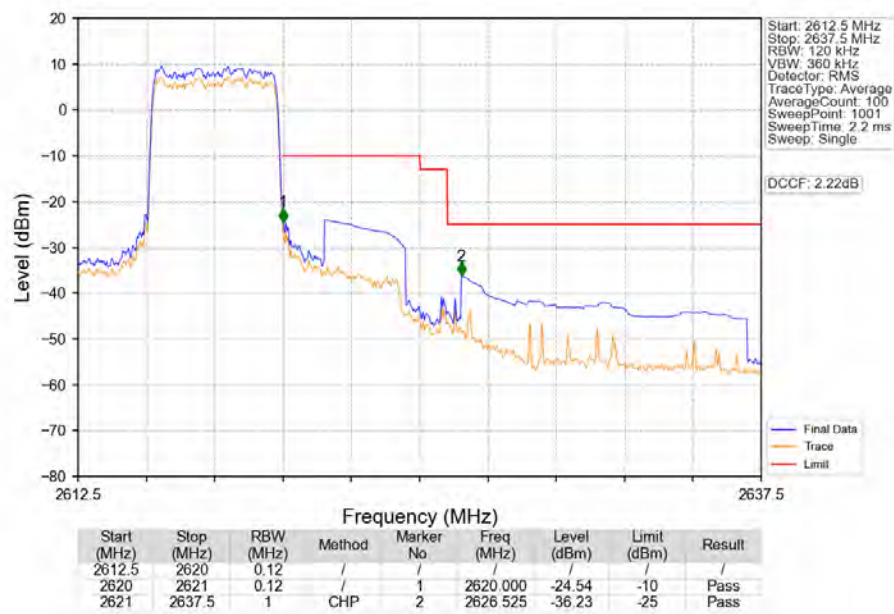
Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV



Band38 5MHz QPSK HCH 2617.5MHz RB 1 24 NTNV

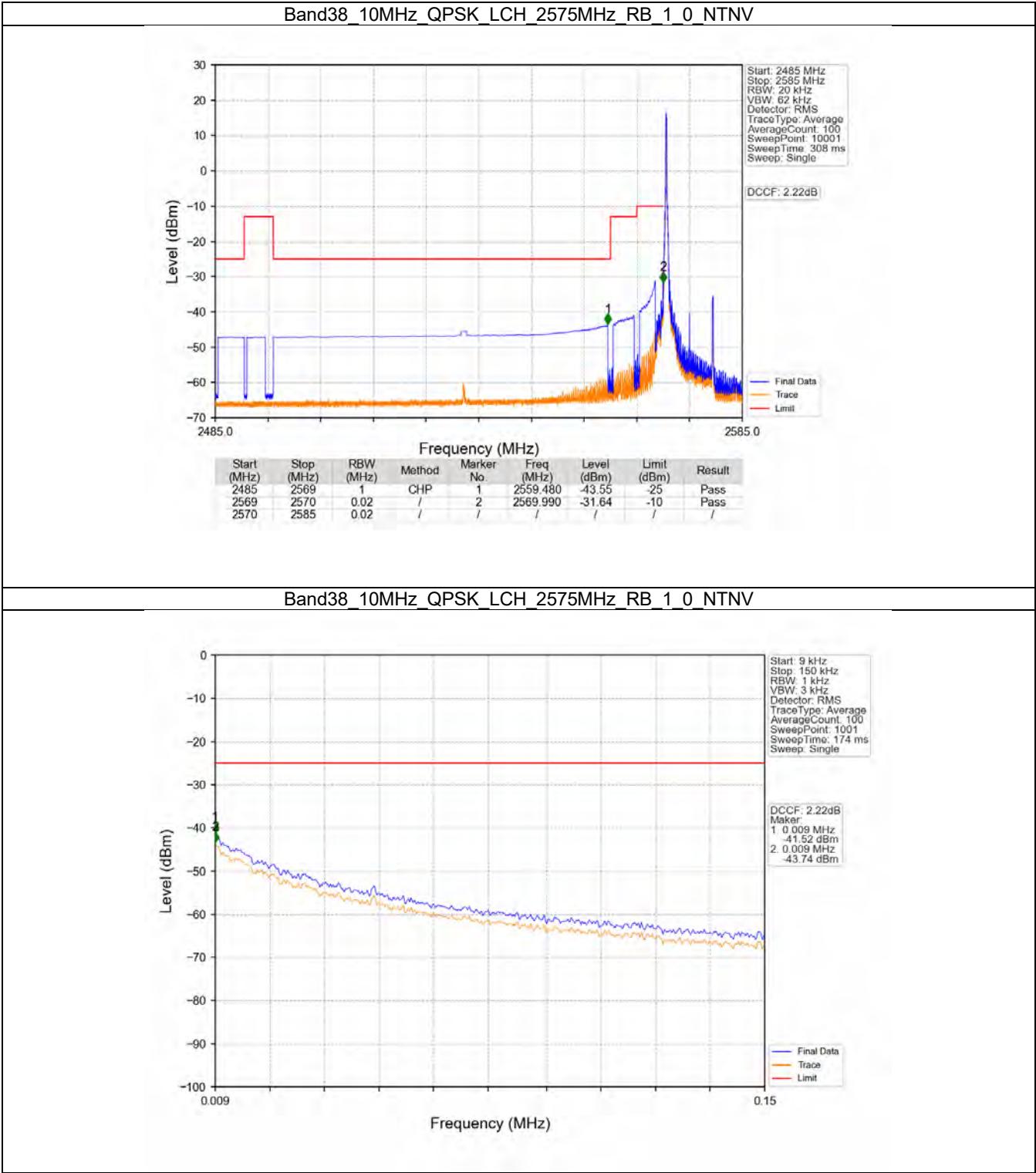


Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV

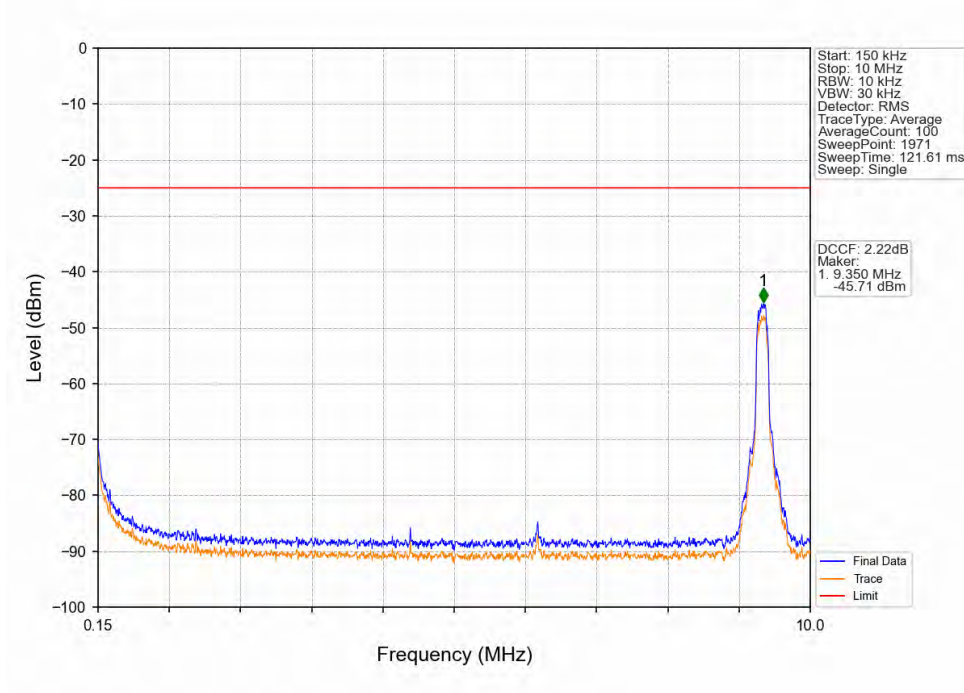


5.2 B38\_10MHz

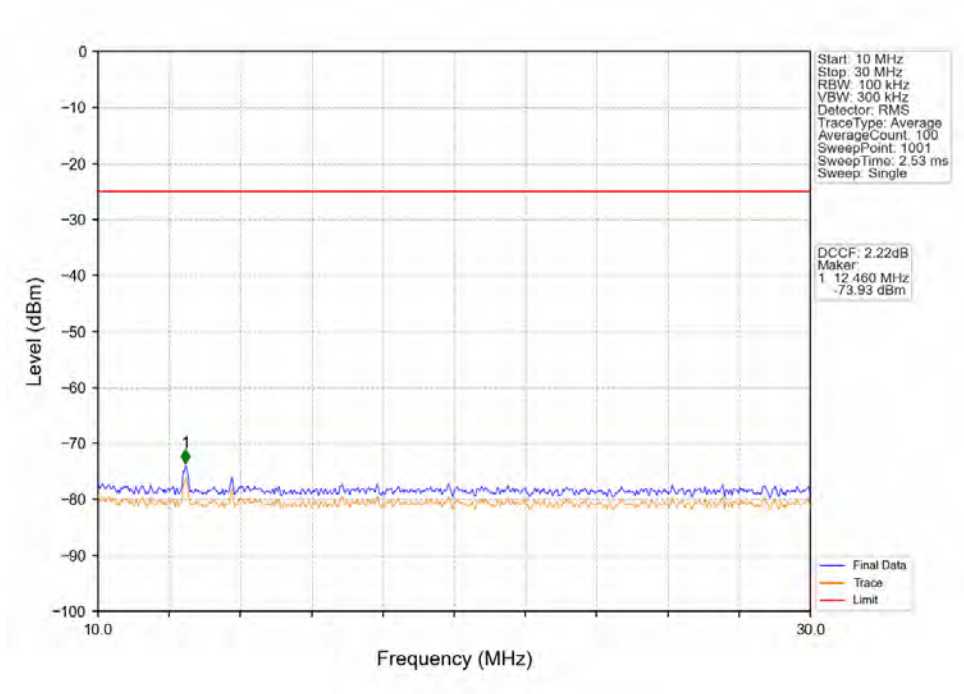
5.2.2 Test Graph



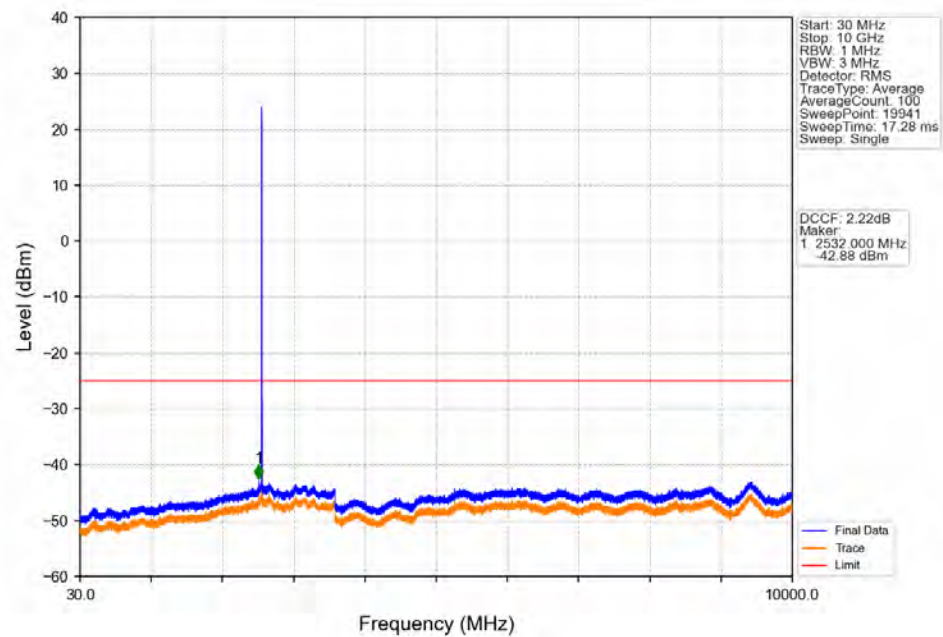
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



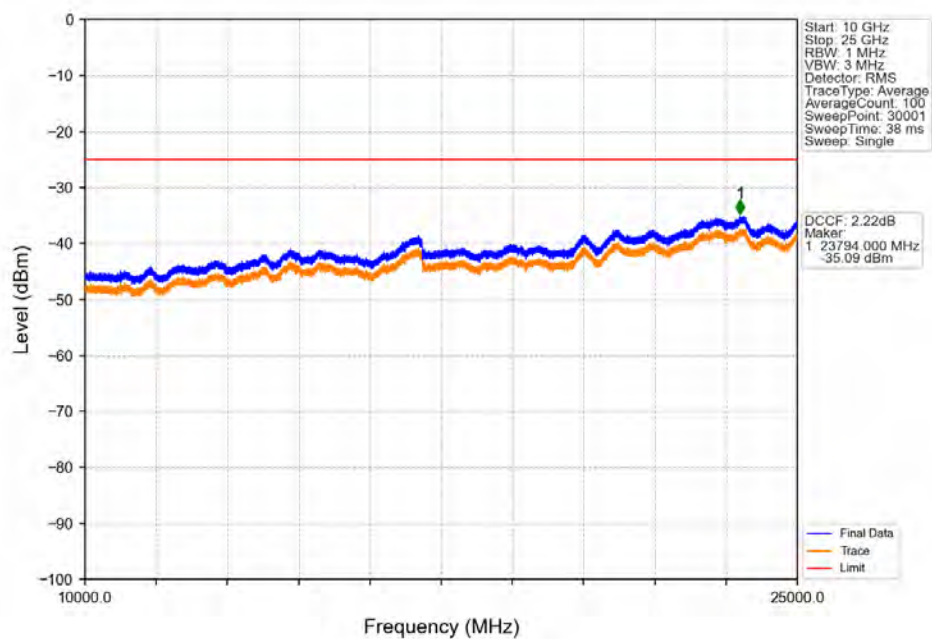
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



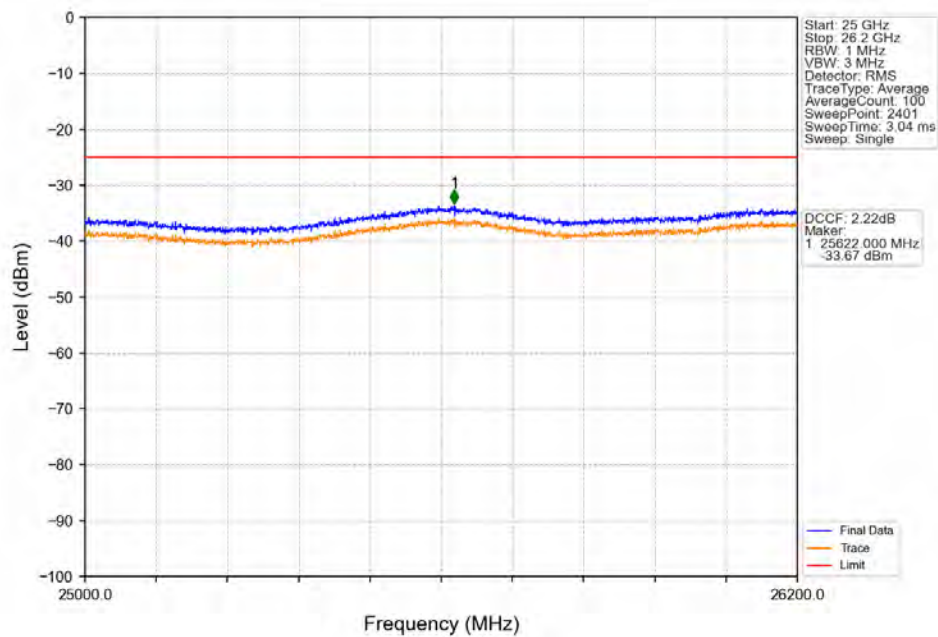
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTNV



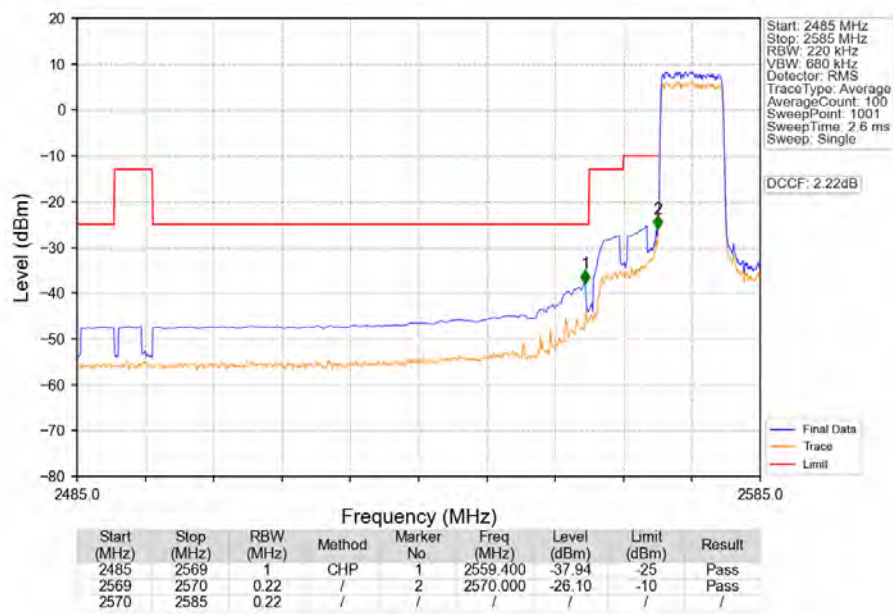
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTNV



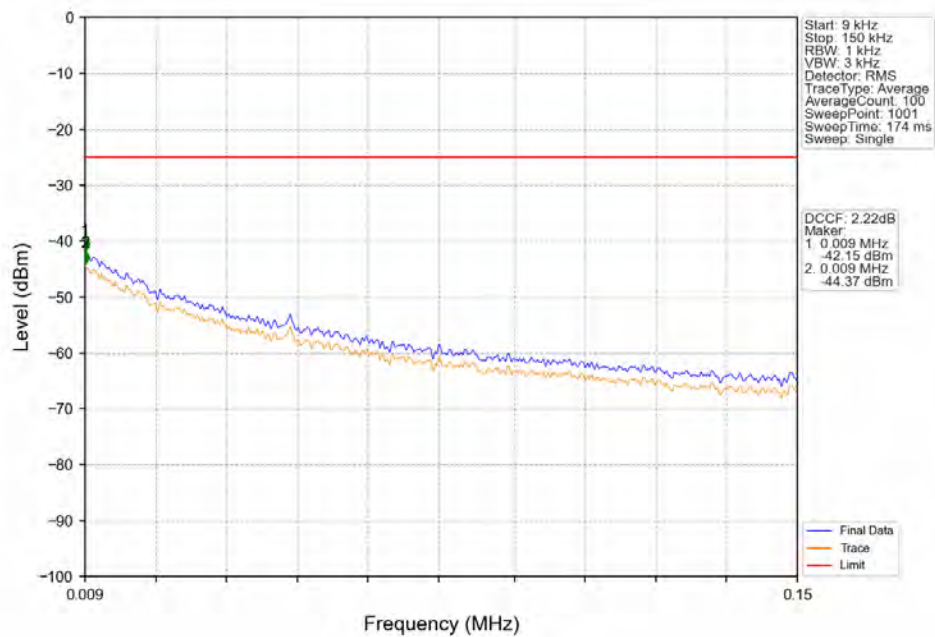
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



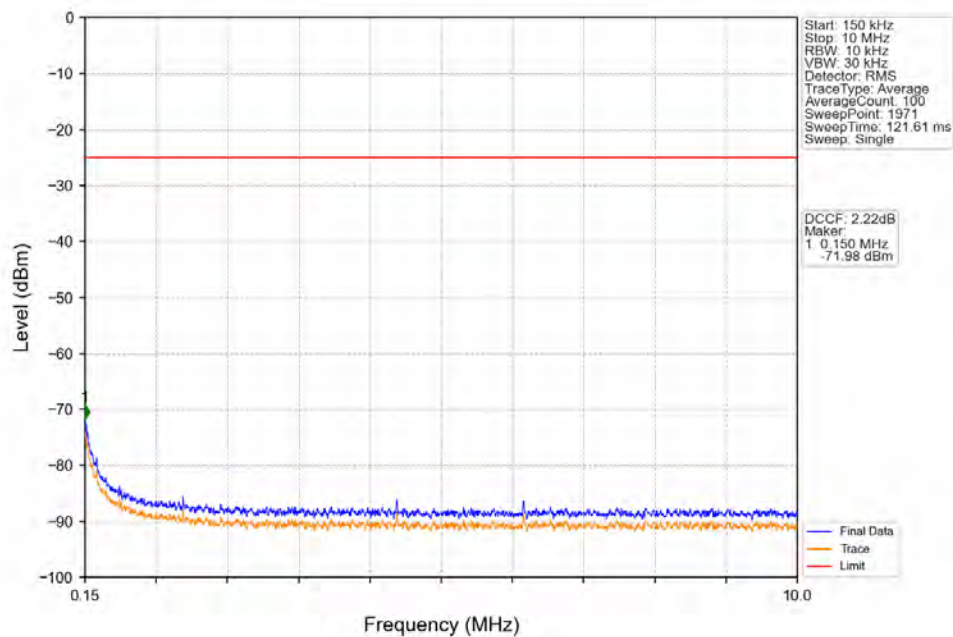
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



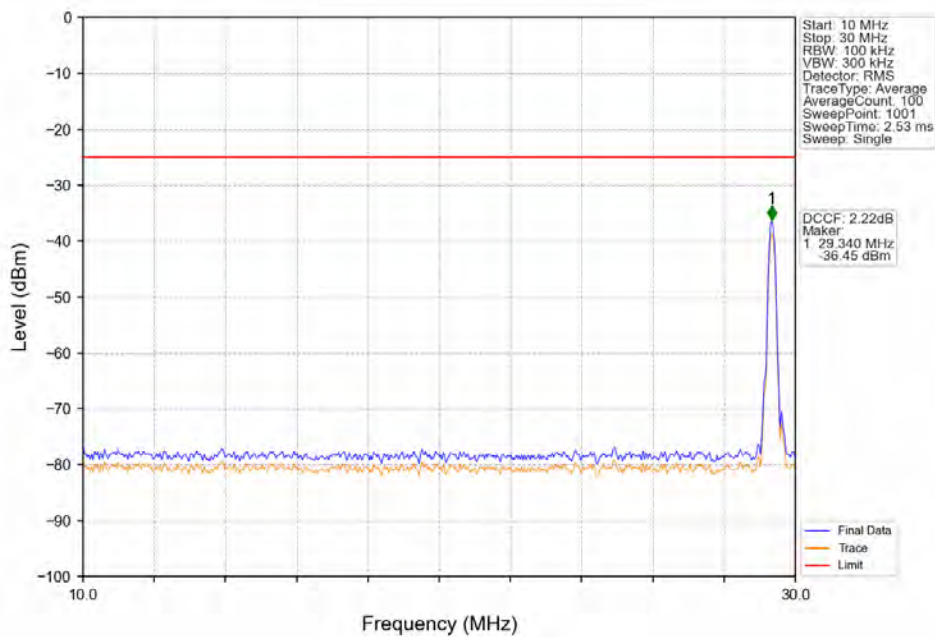
Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTNV



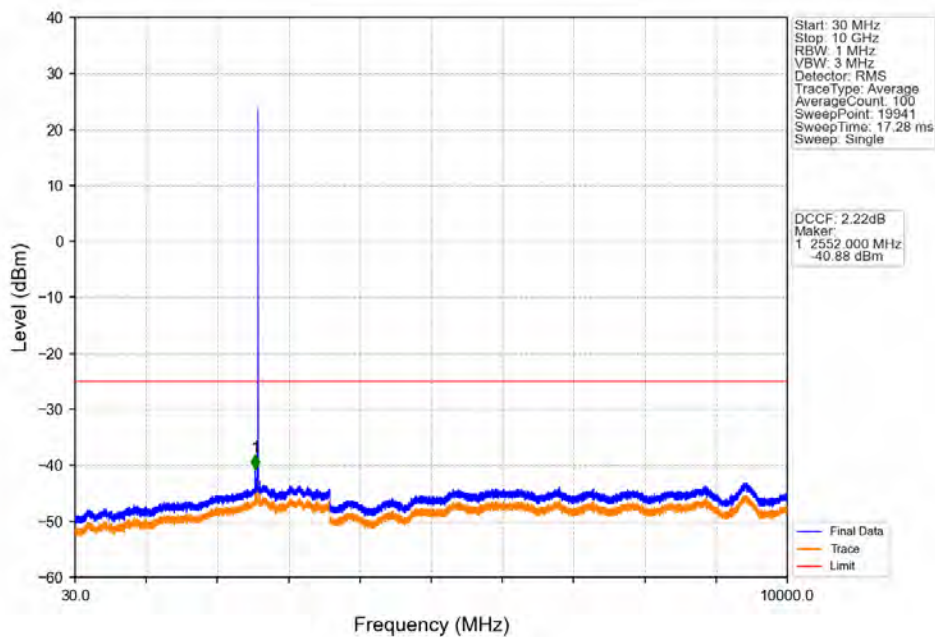
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



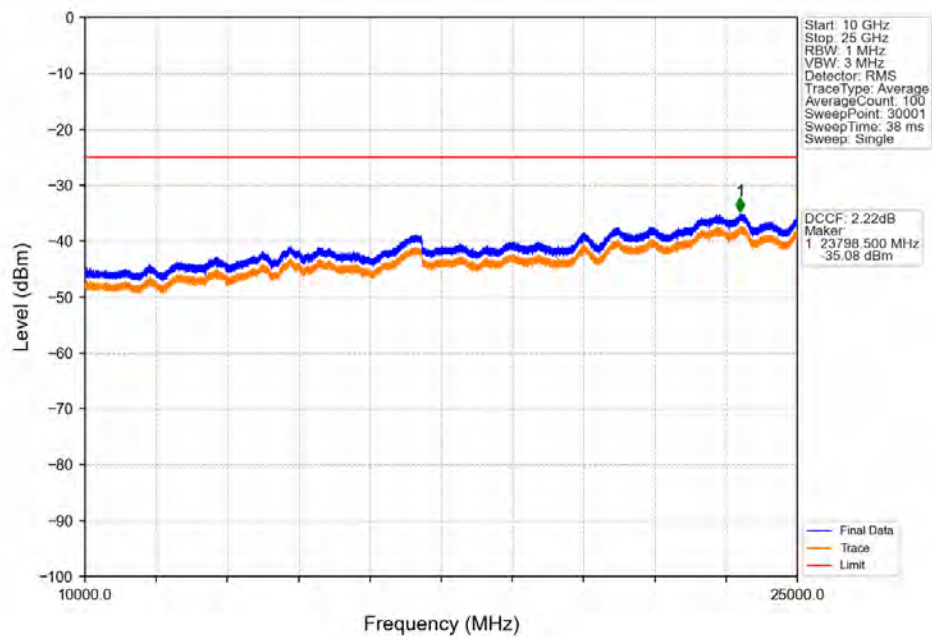
Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTV



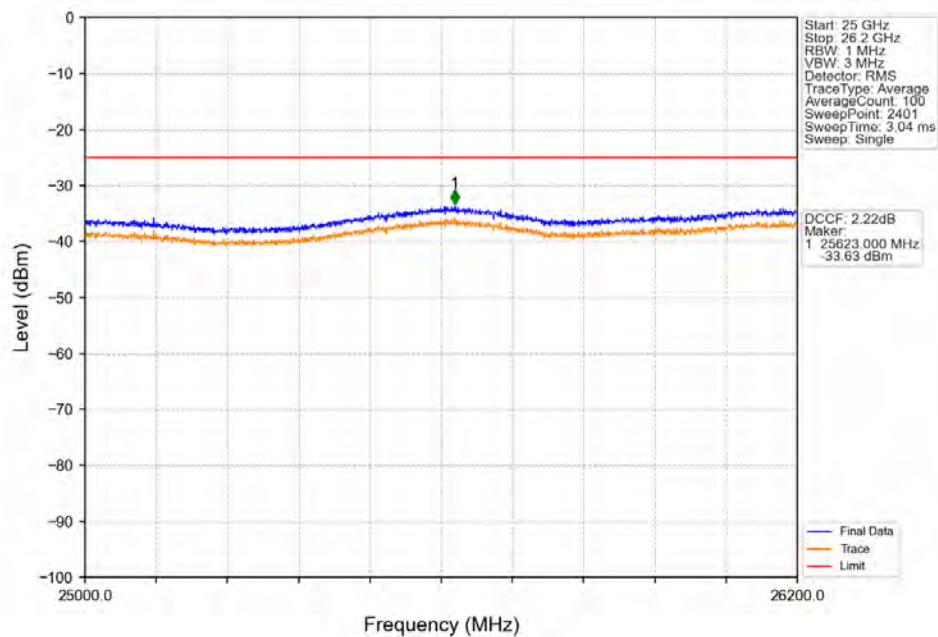
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTV



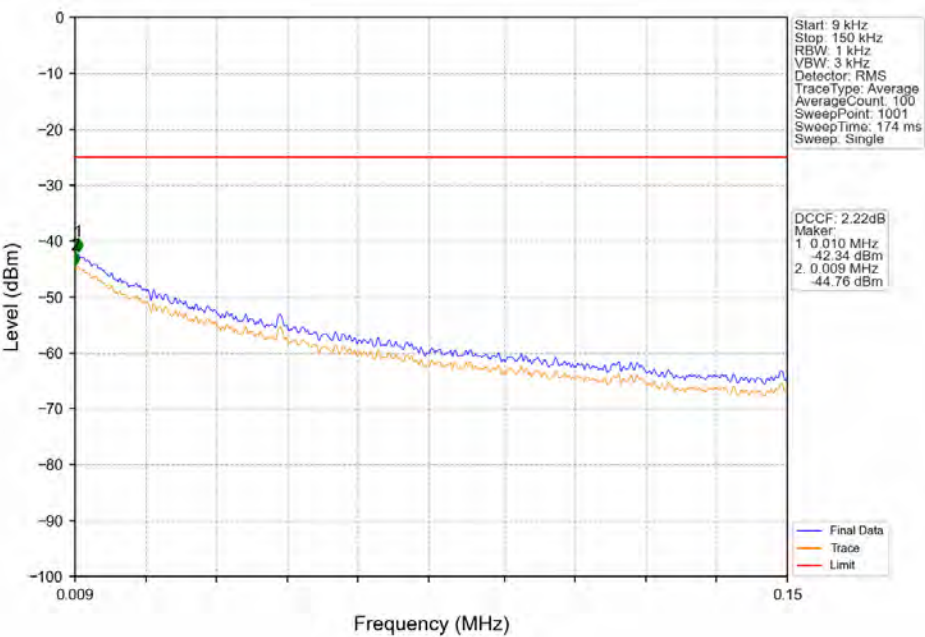
Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTV



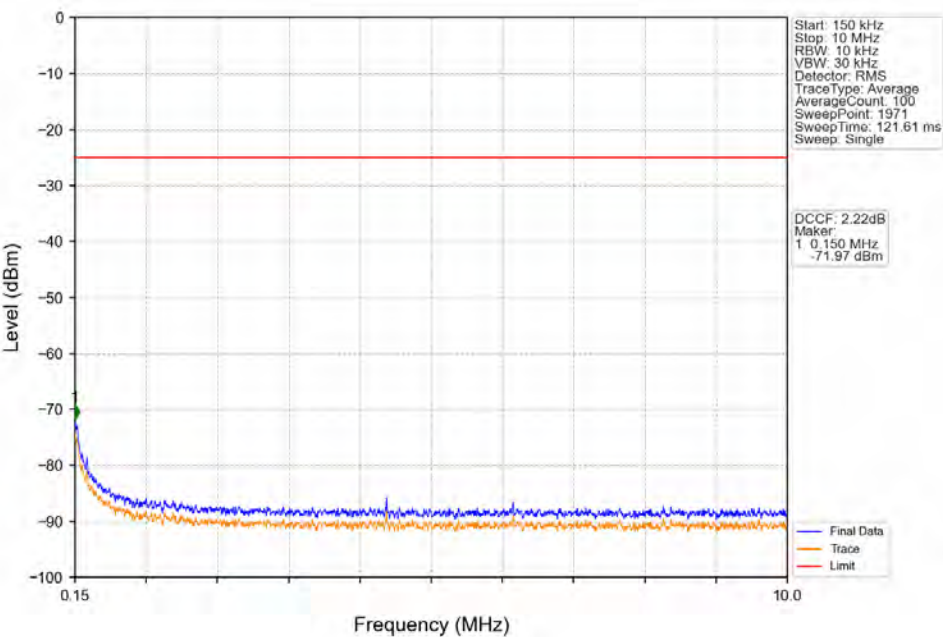
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTV



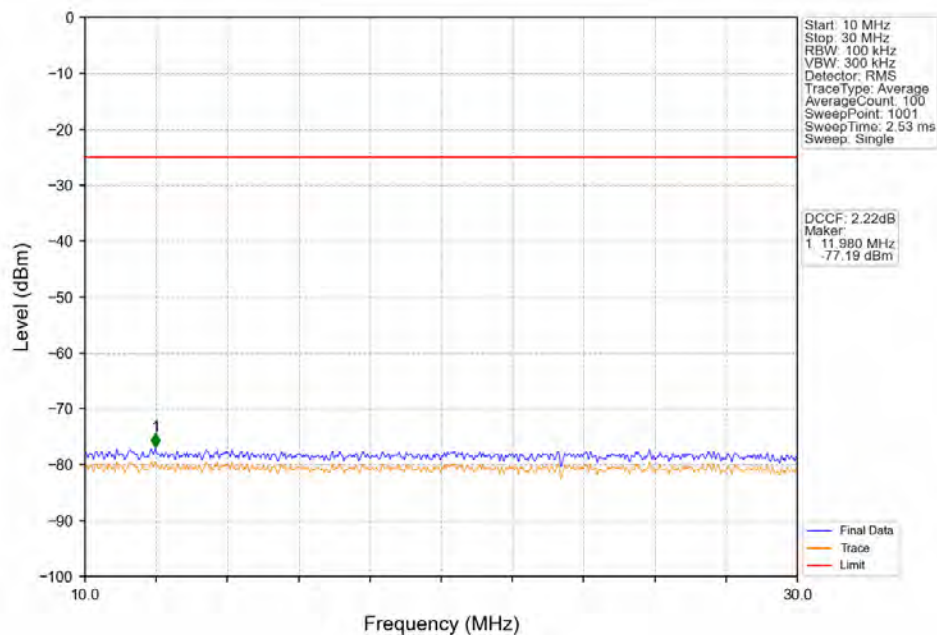
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



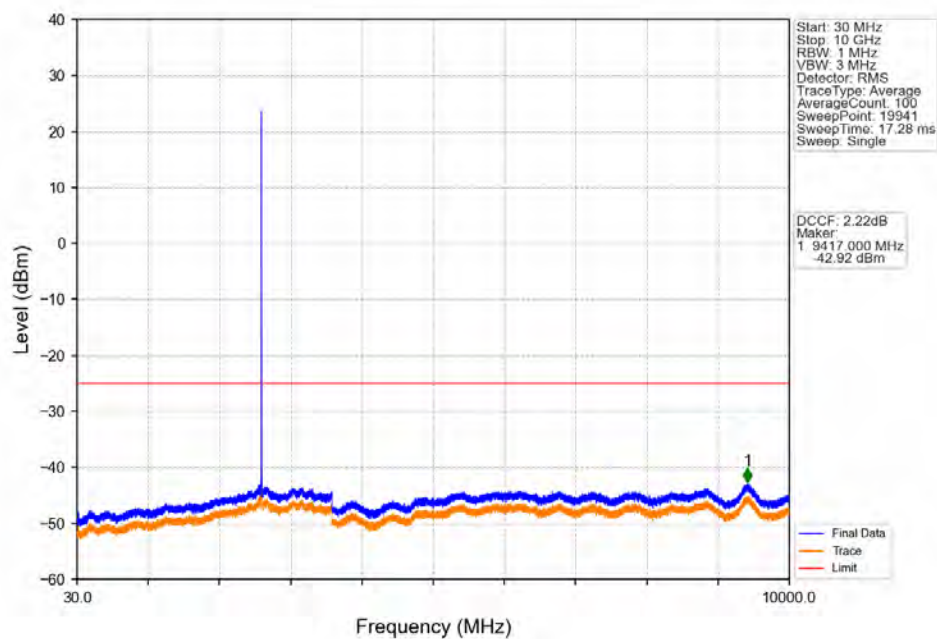
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



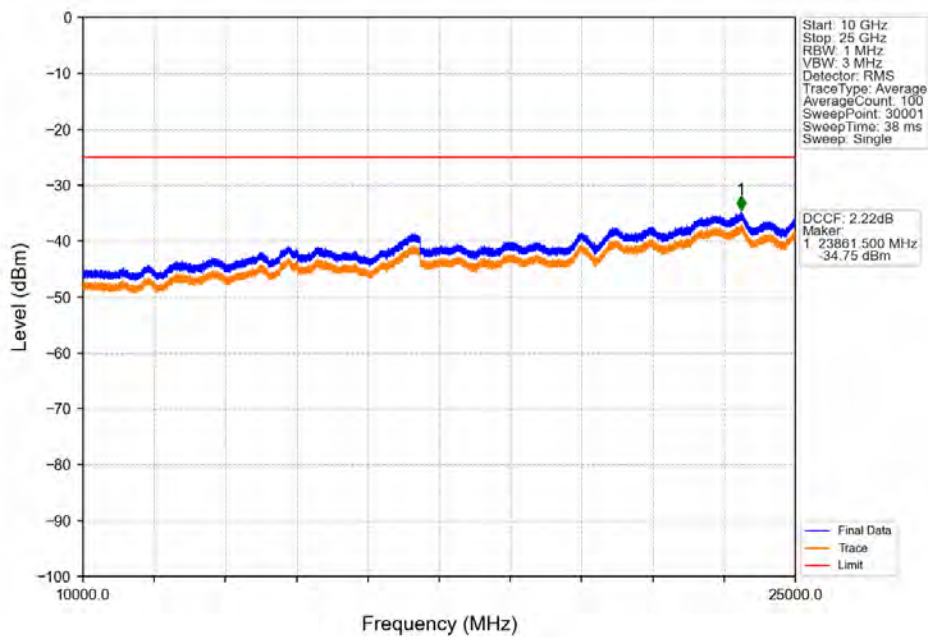
Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTV



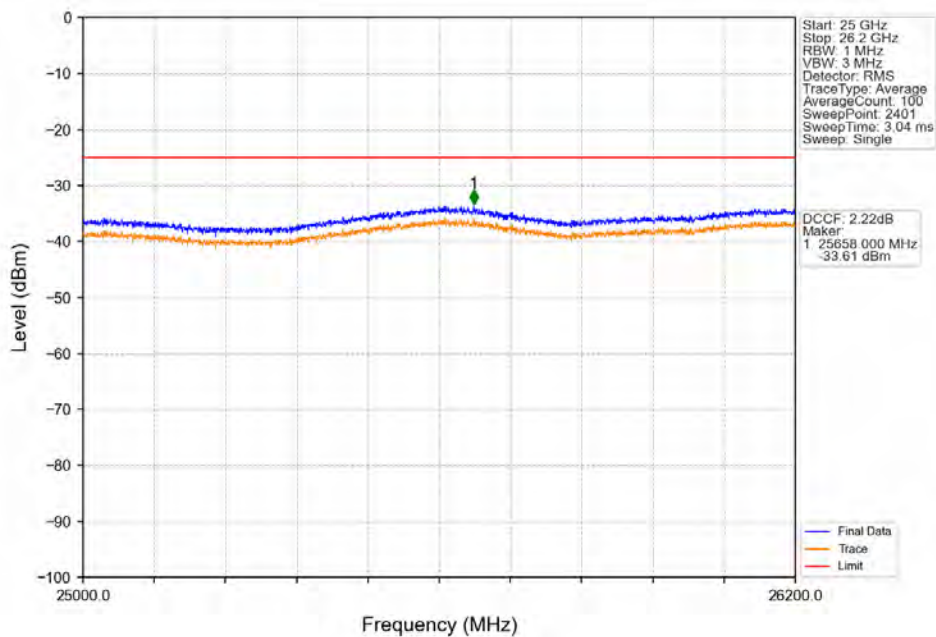
Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTV



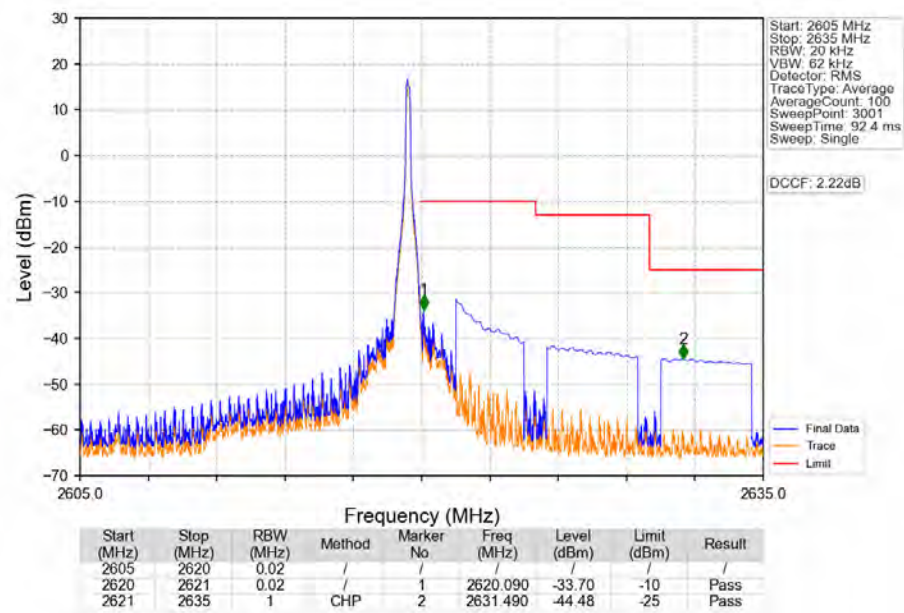
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



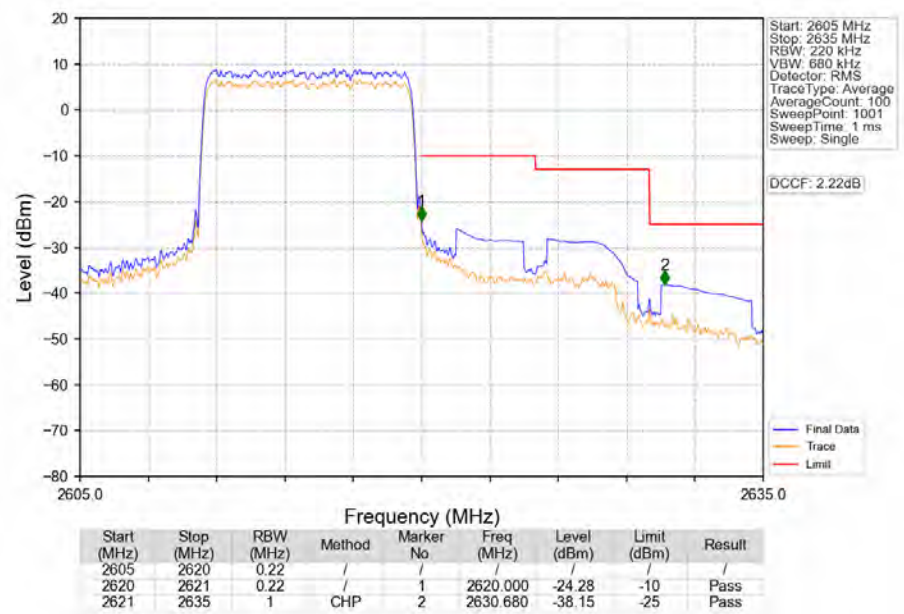
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_49\_NTNV

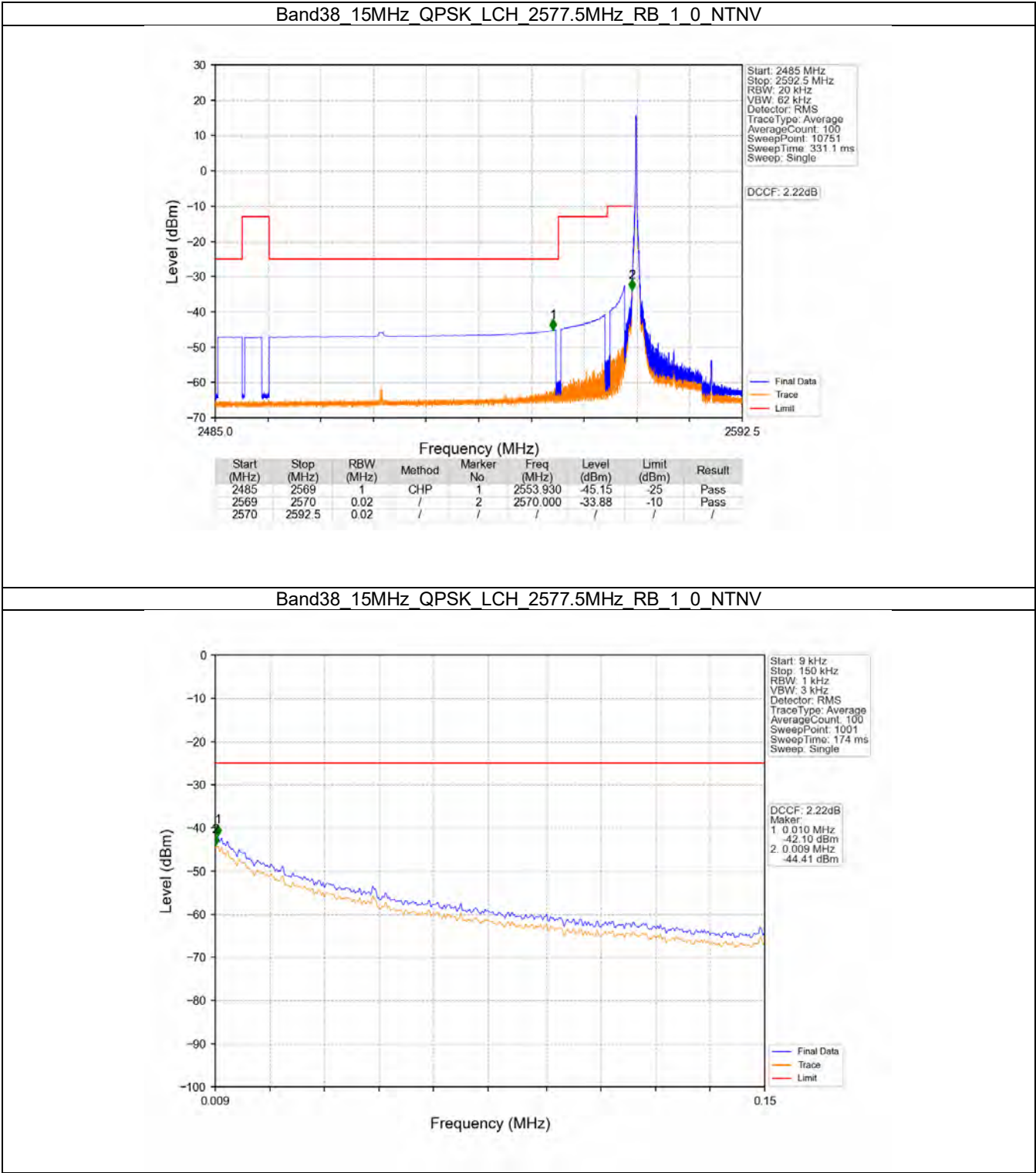


Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV

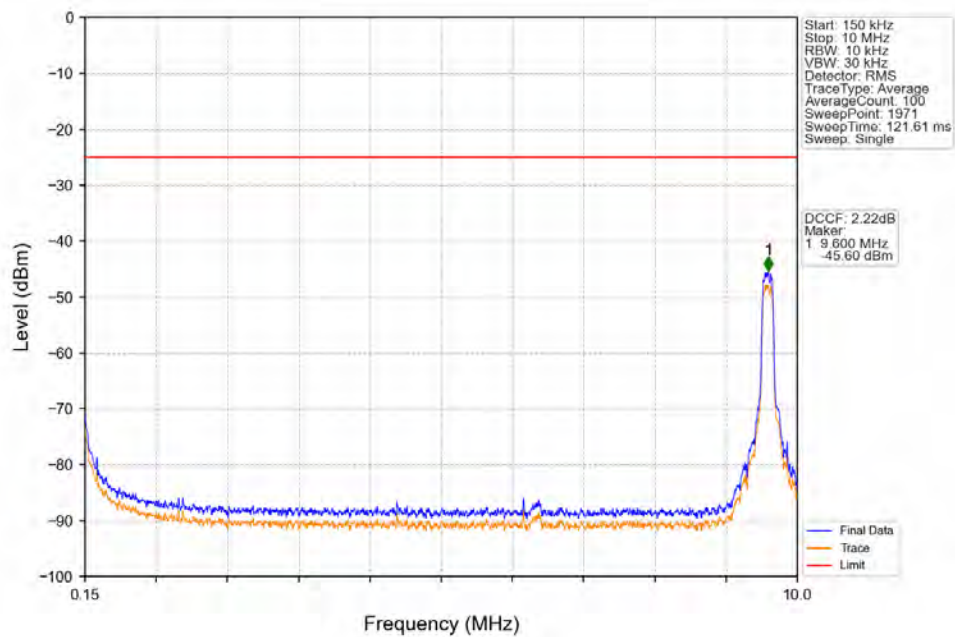


5.3 B38\_15MHz

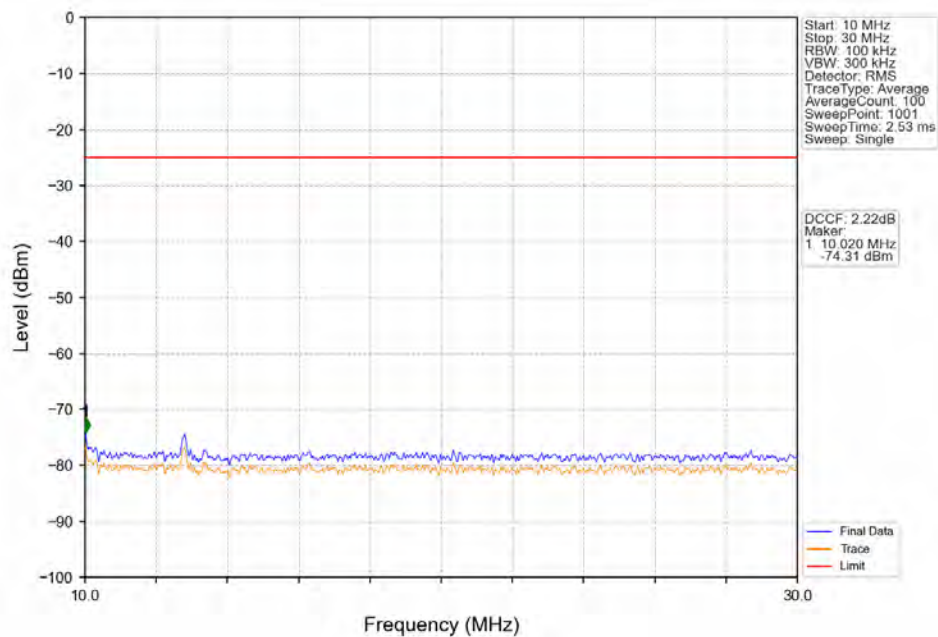
5.3.2 Test Graph



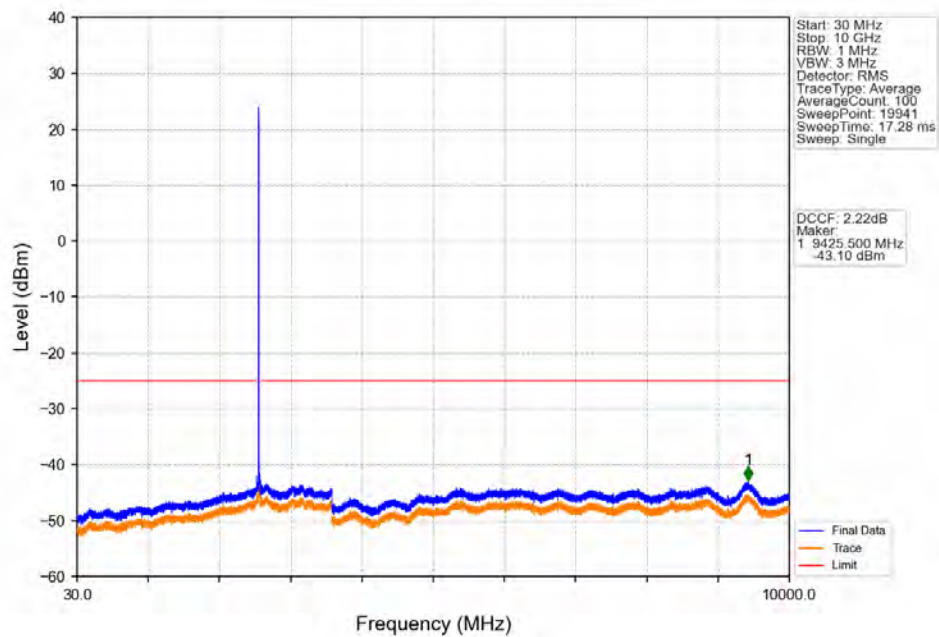
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



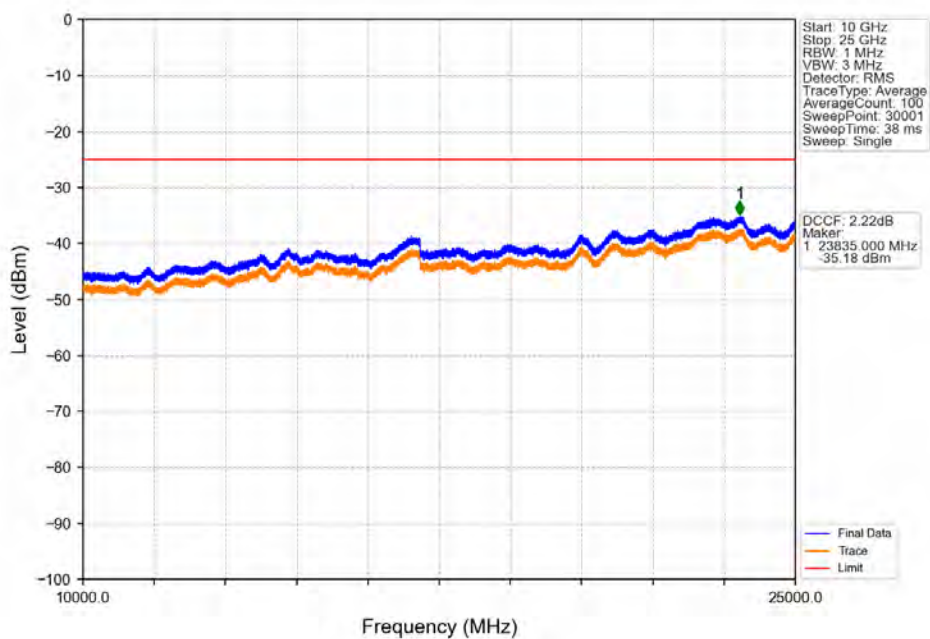
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



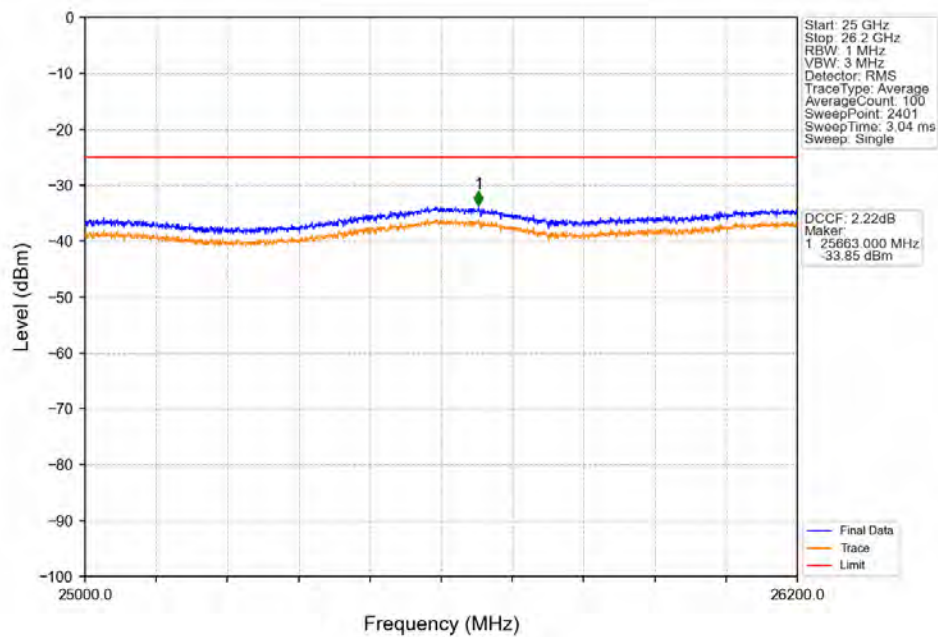
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



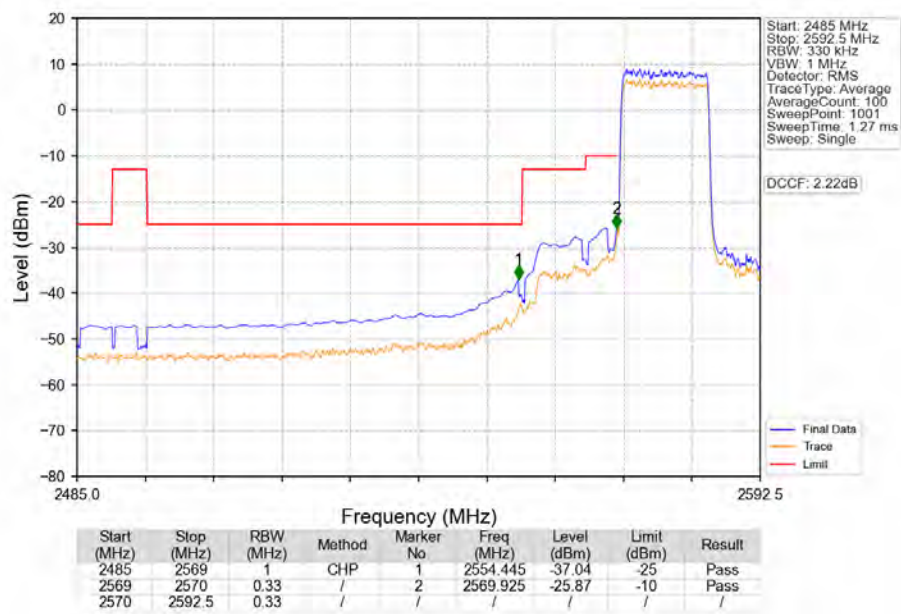
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



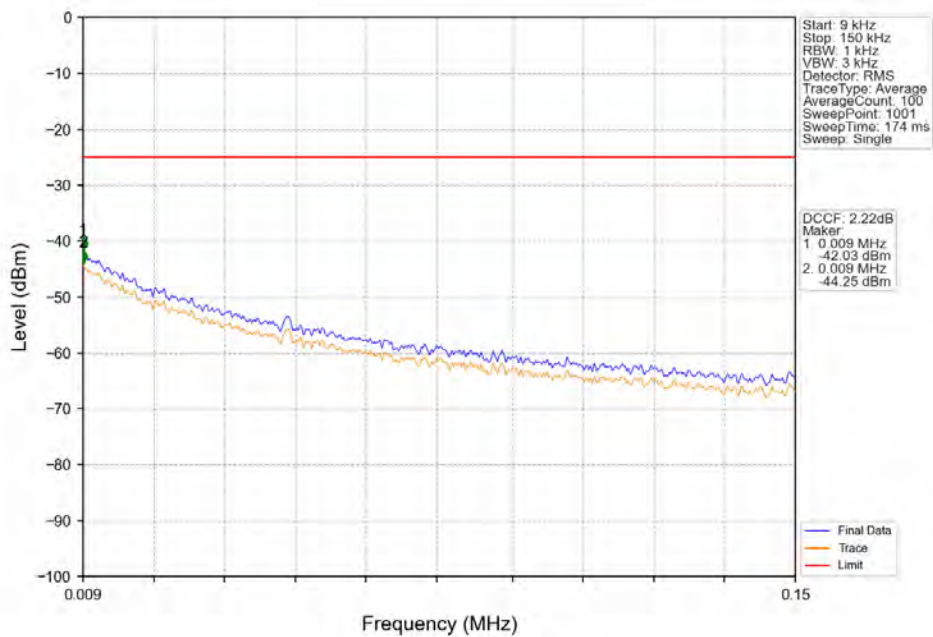
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



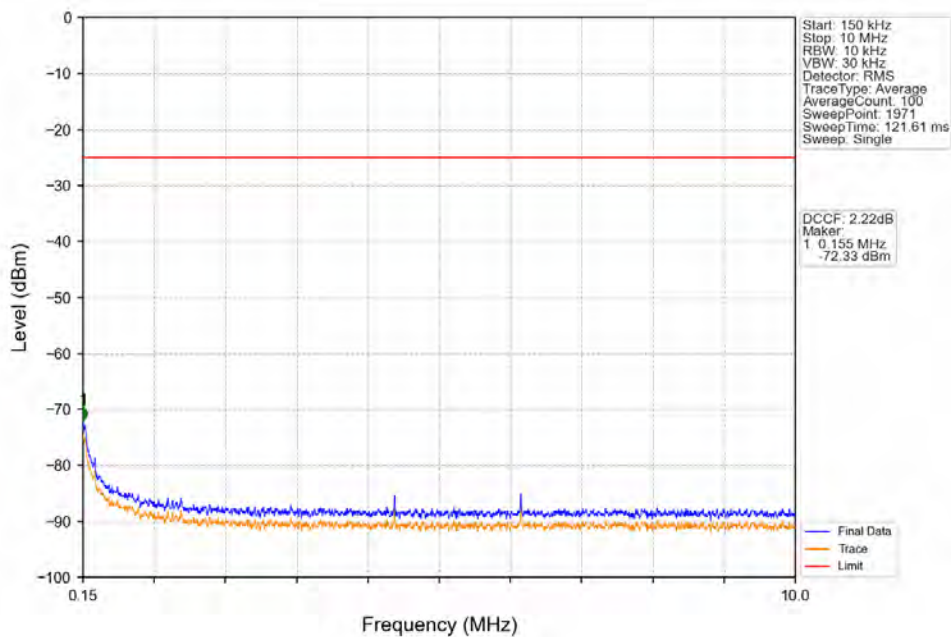
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



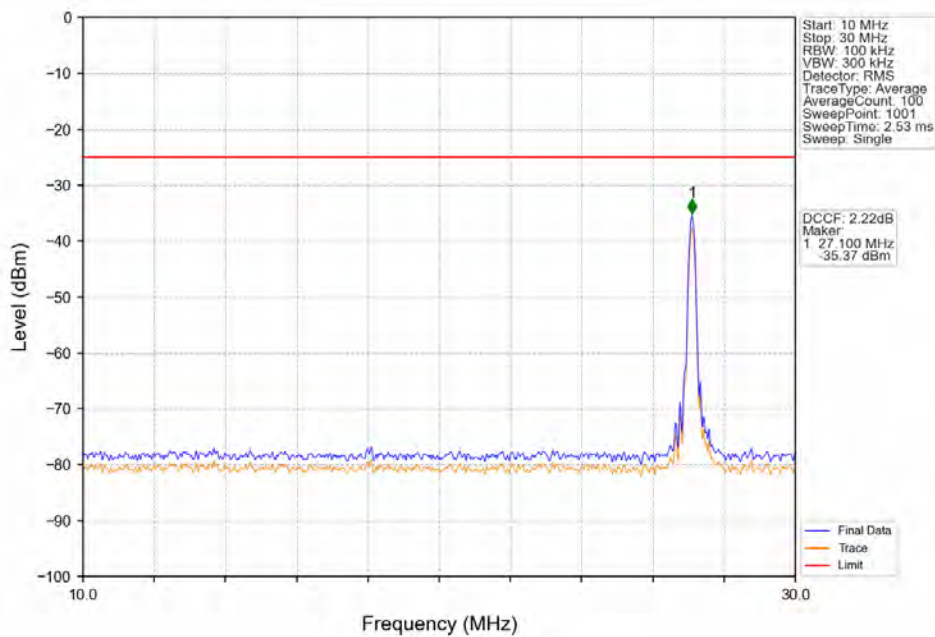
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTV



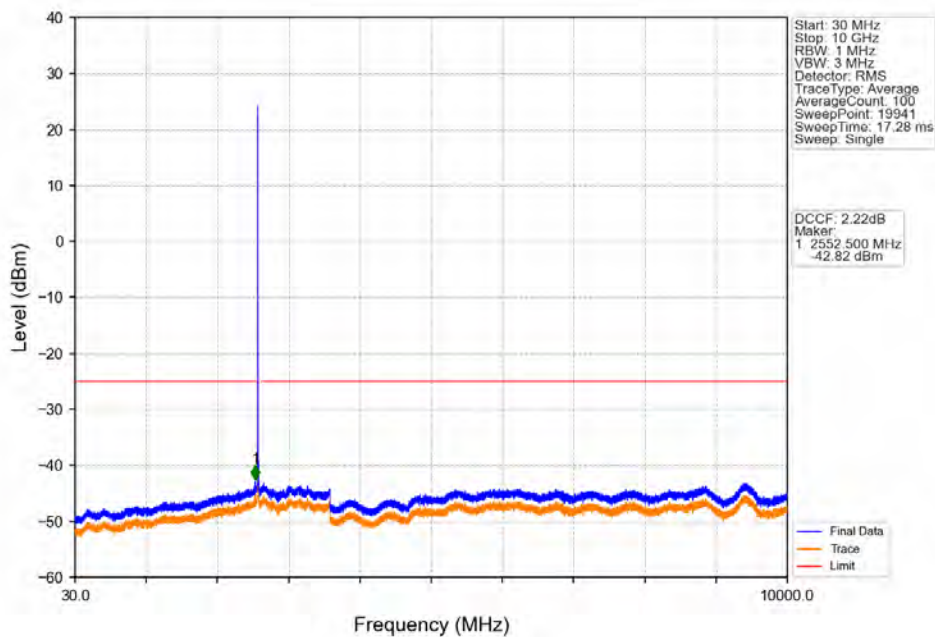
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTV



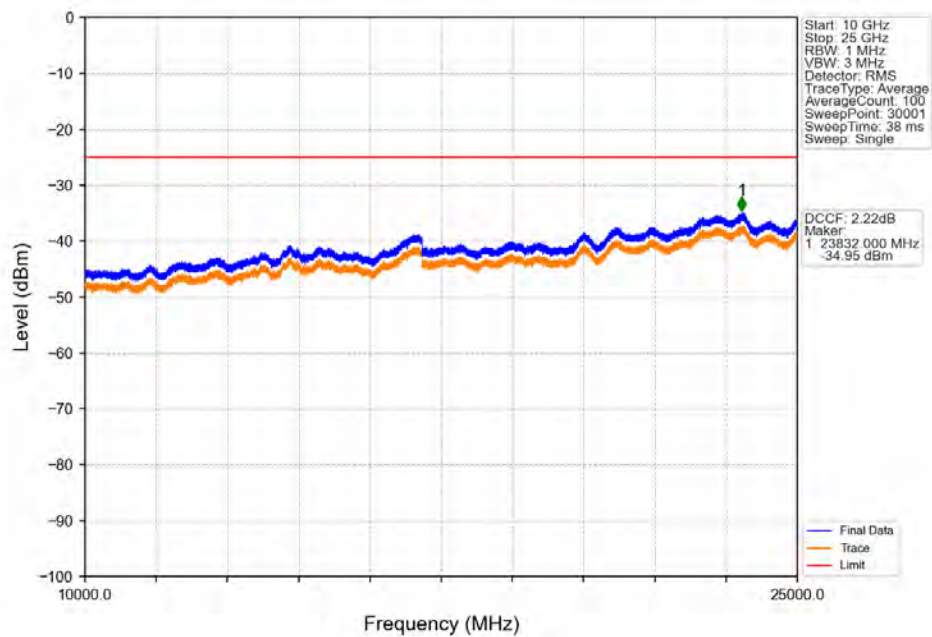
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTV



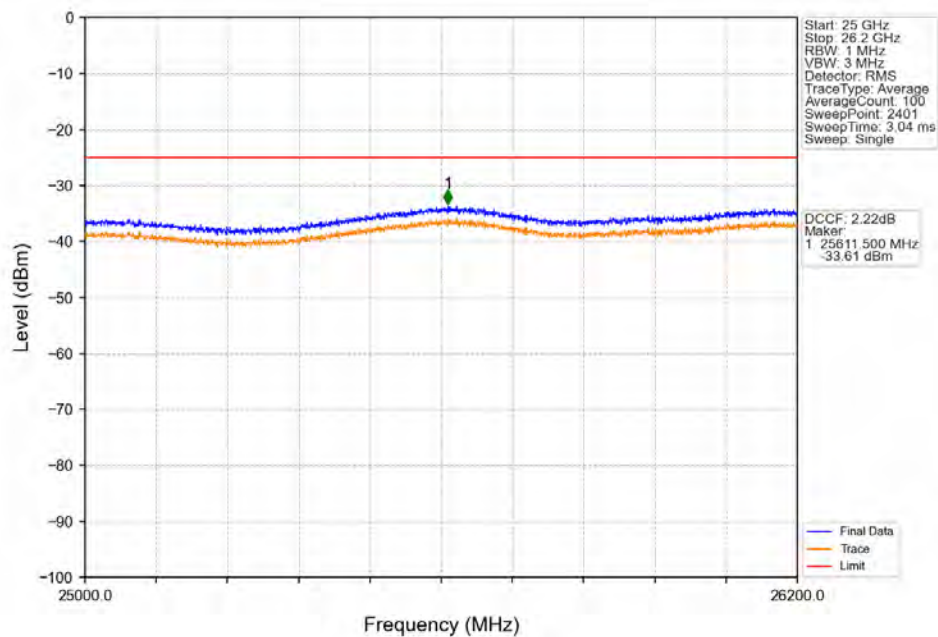
Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTV



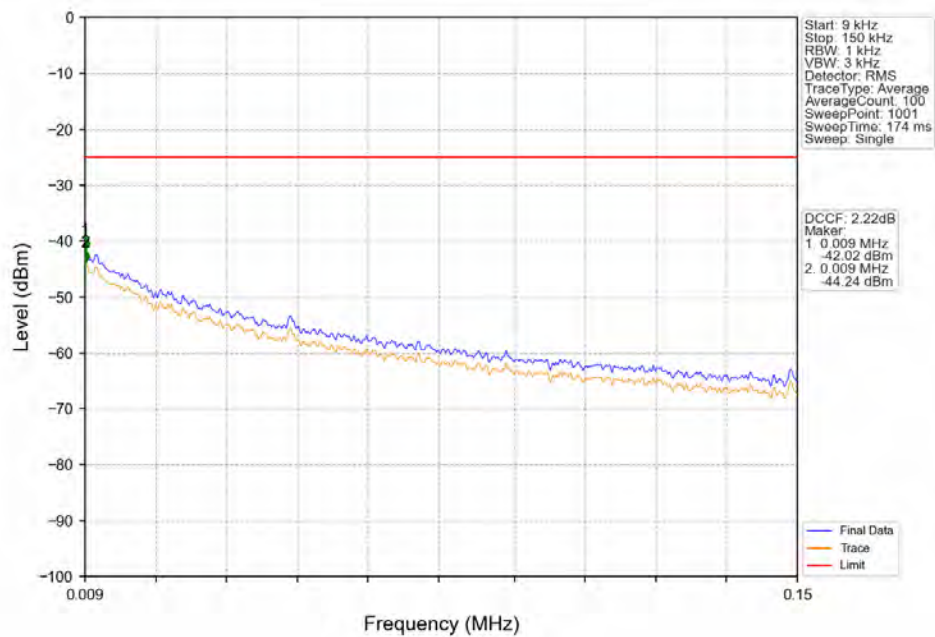
Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



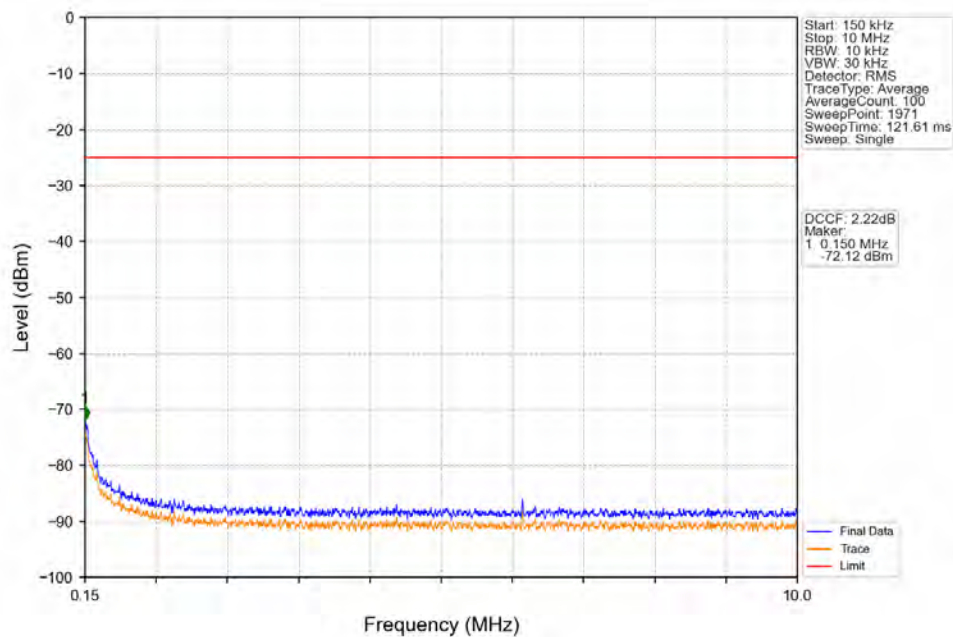
Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



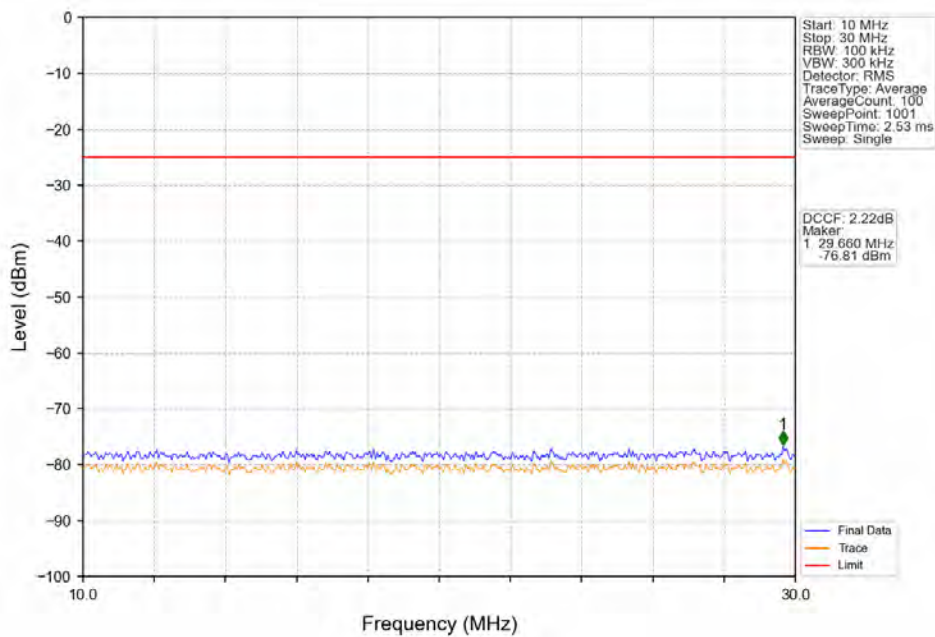
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



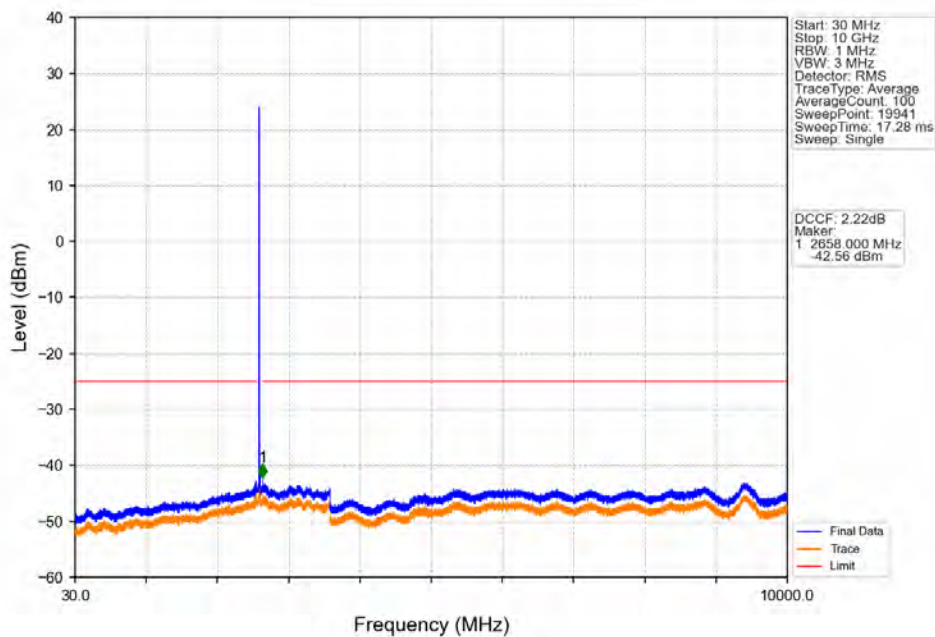
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



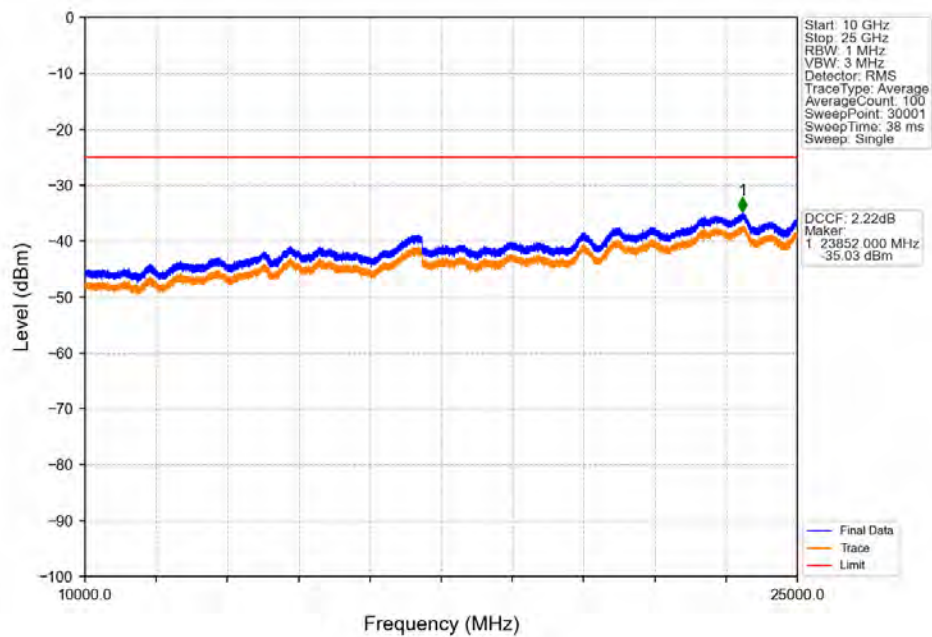
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



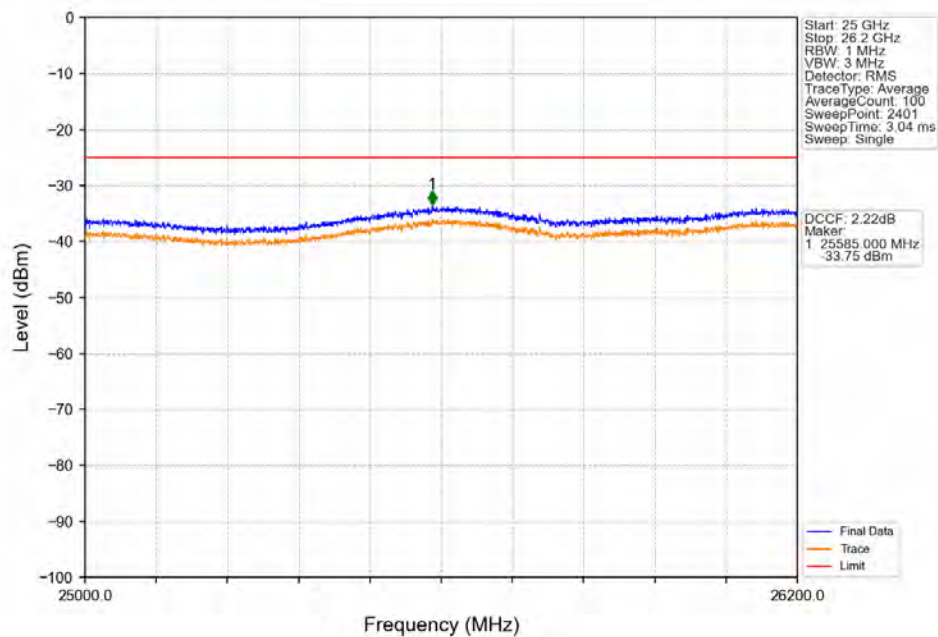
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



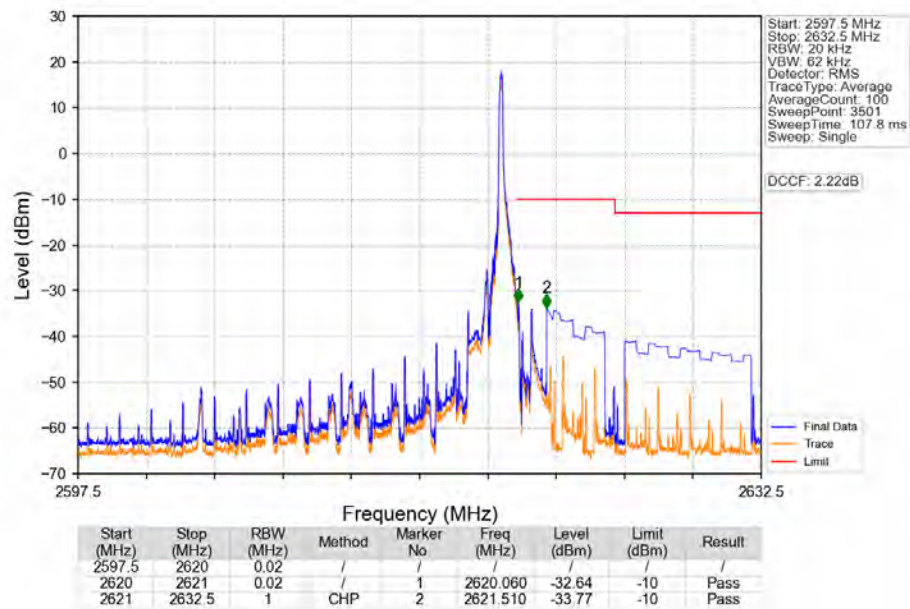
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



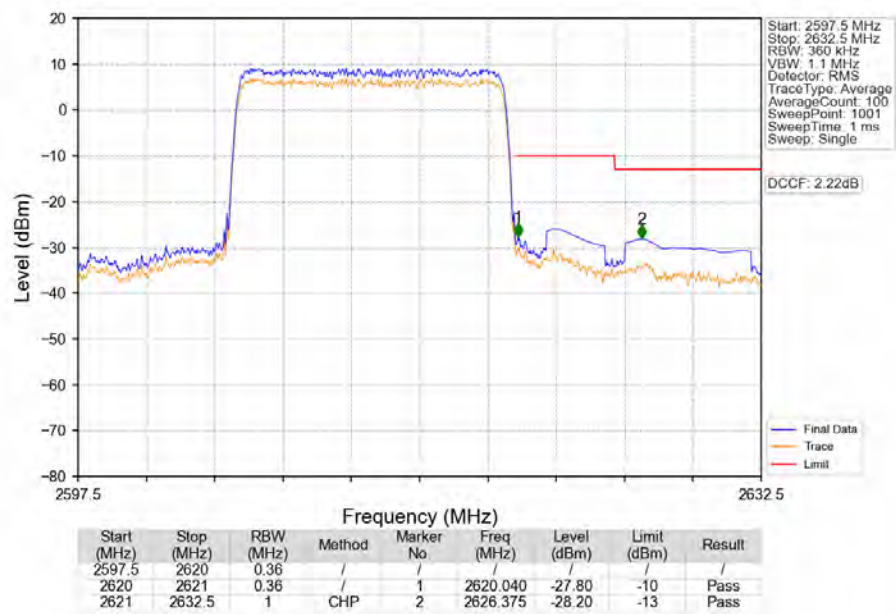
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV



Band38 15MHz QPSK HCH 2612.5MHz RB 1 74 NTNV

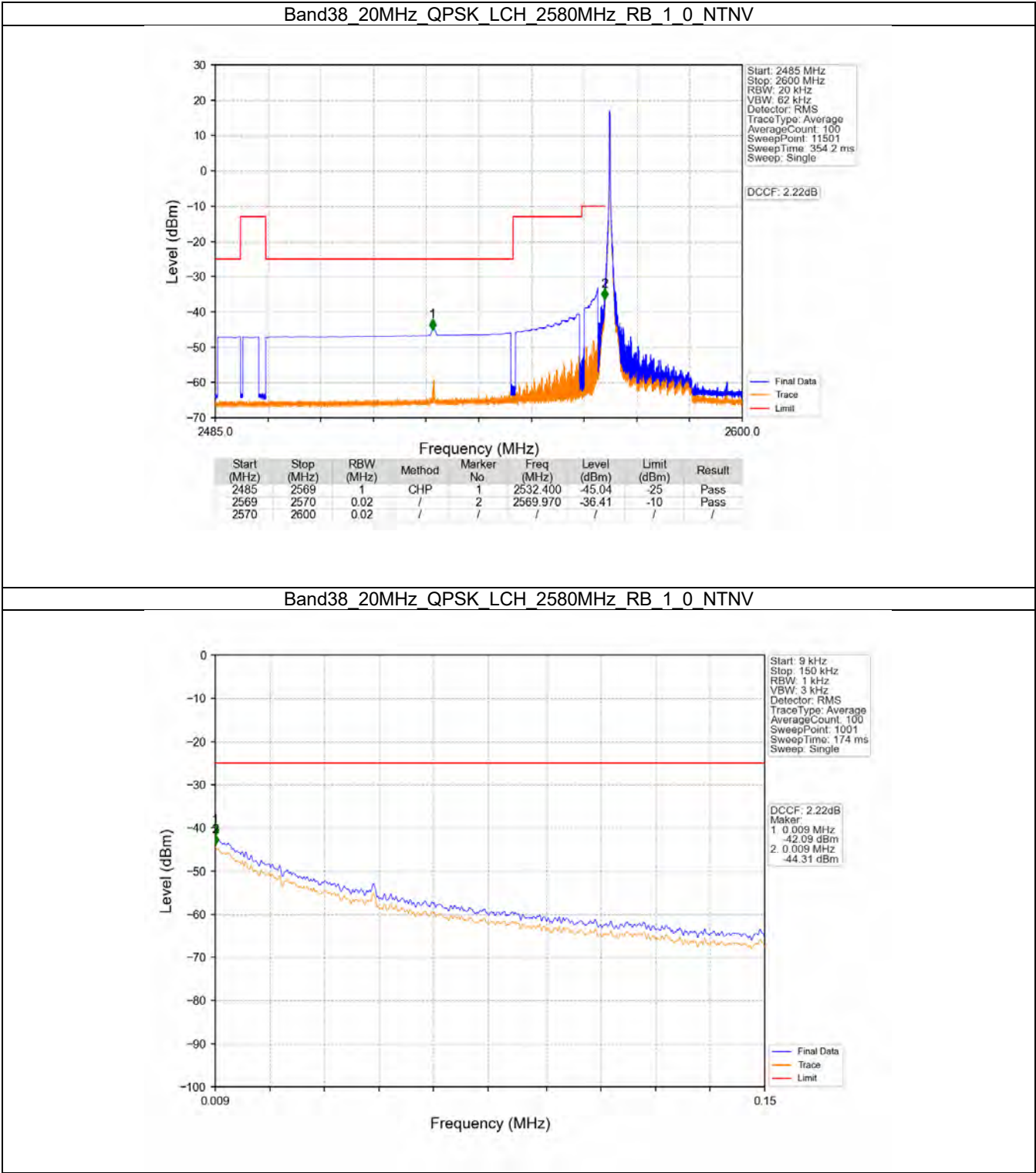


Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTNV

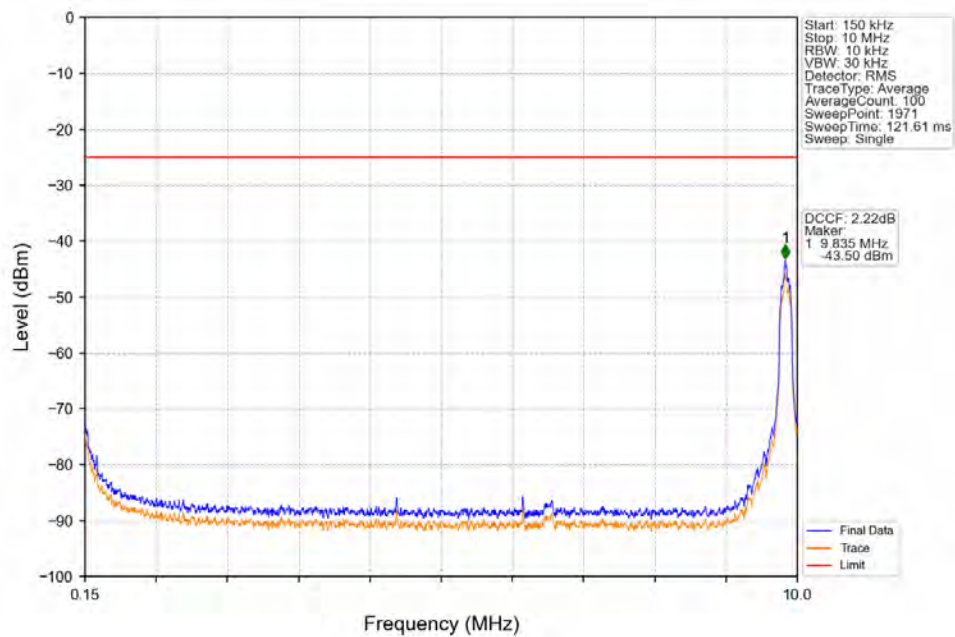


5.4 B38\_20MHz

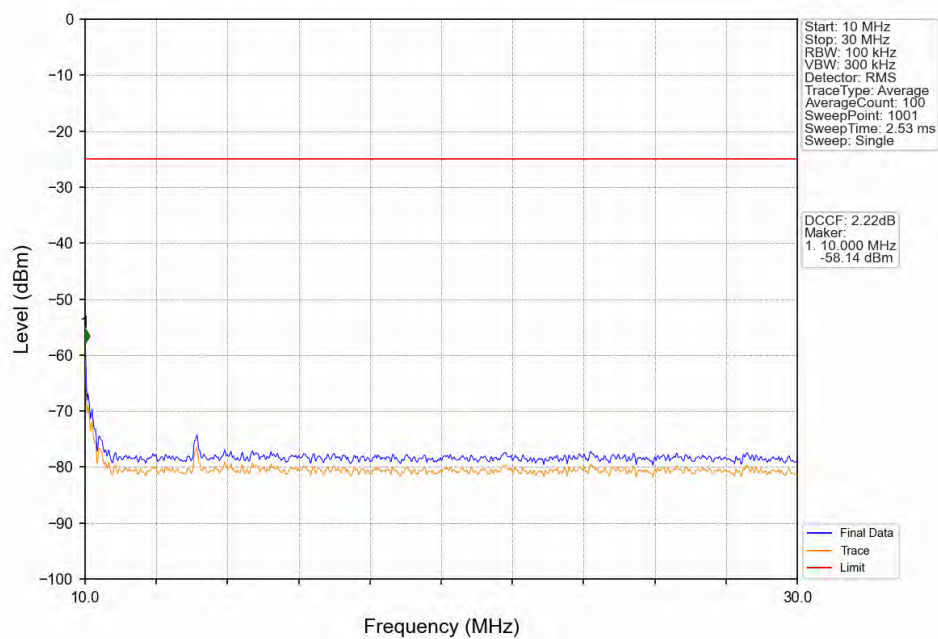
5.4.2 Test Graph



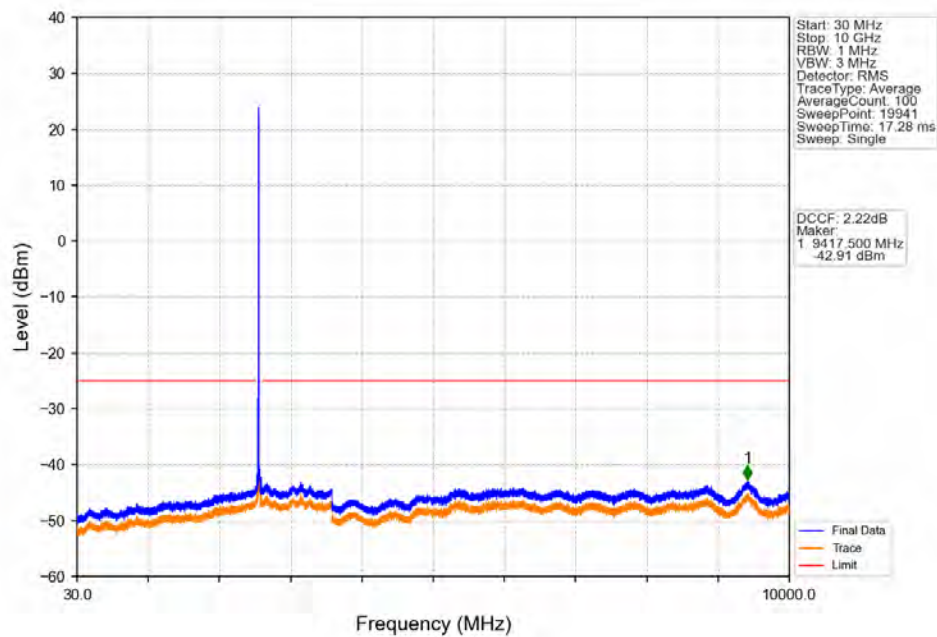
Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_1\_0\_NTNV



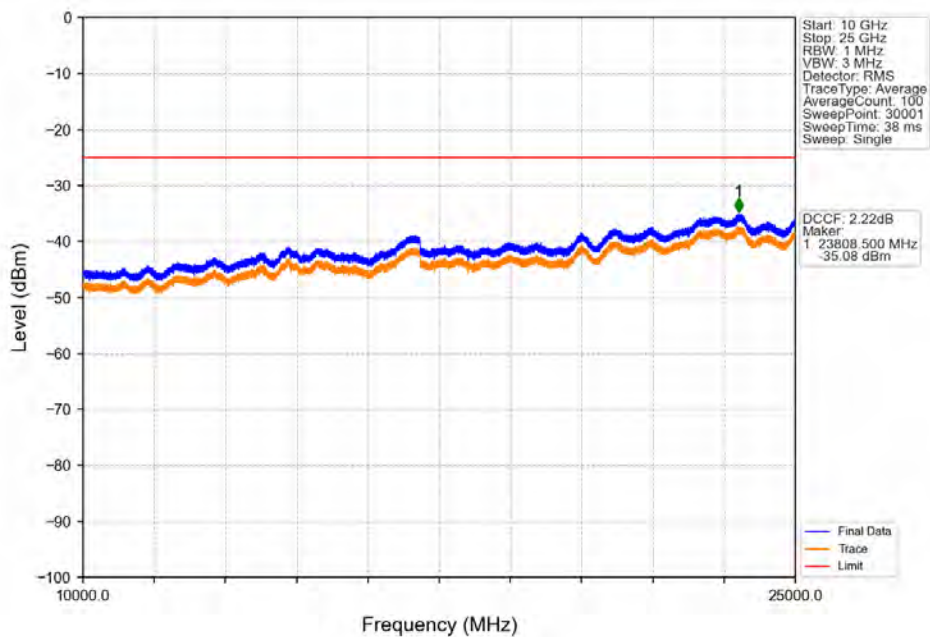
Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_1\_0\_NTNV



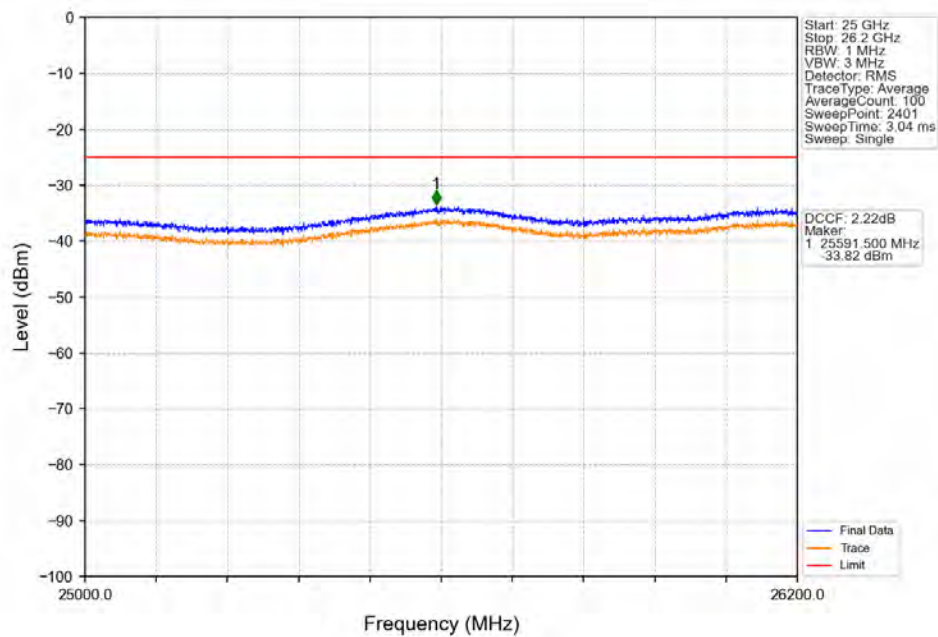
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTNV



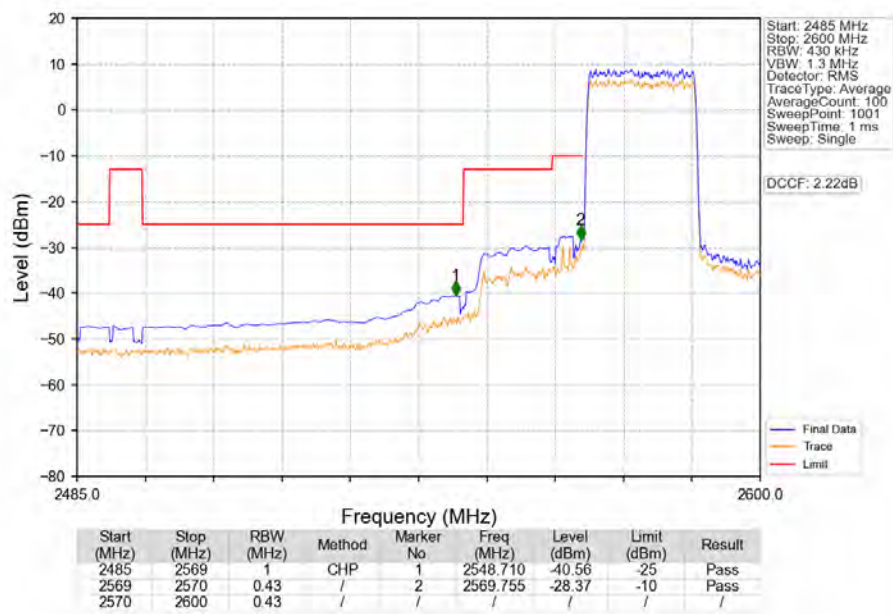
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTNV



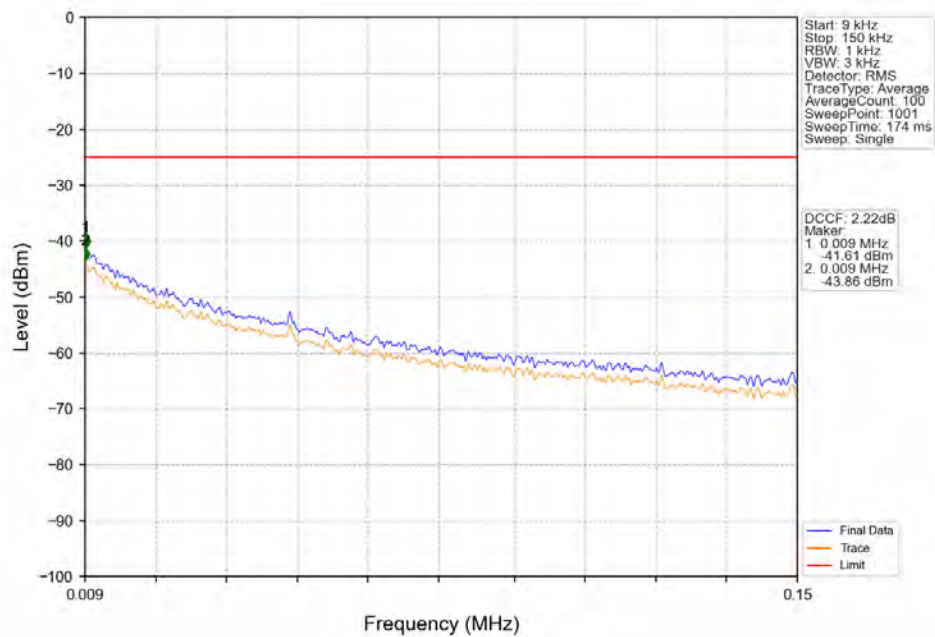
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTNV



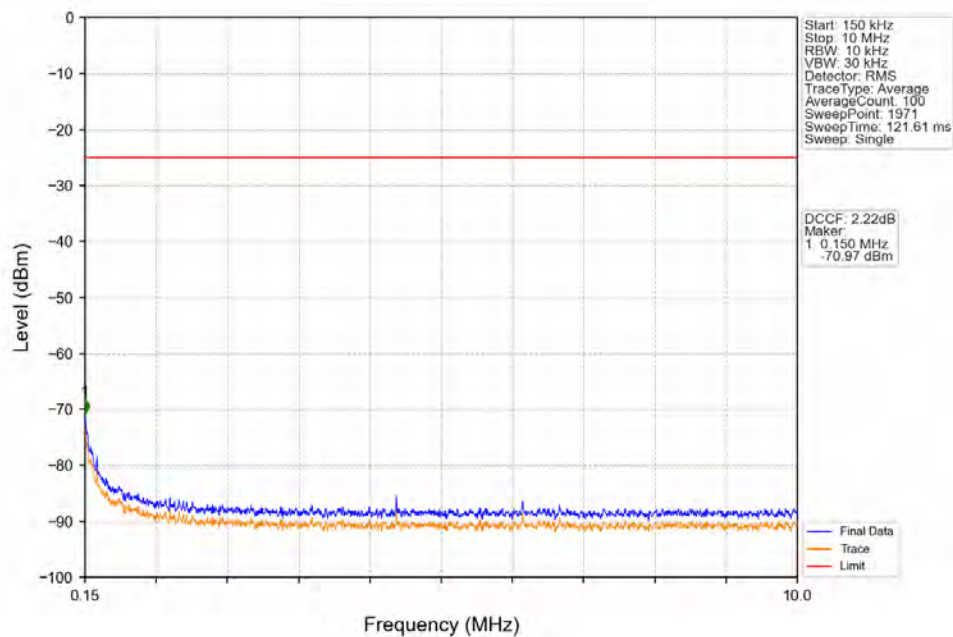
Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



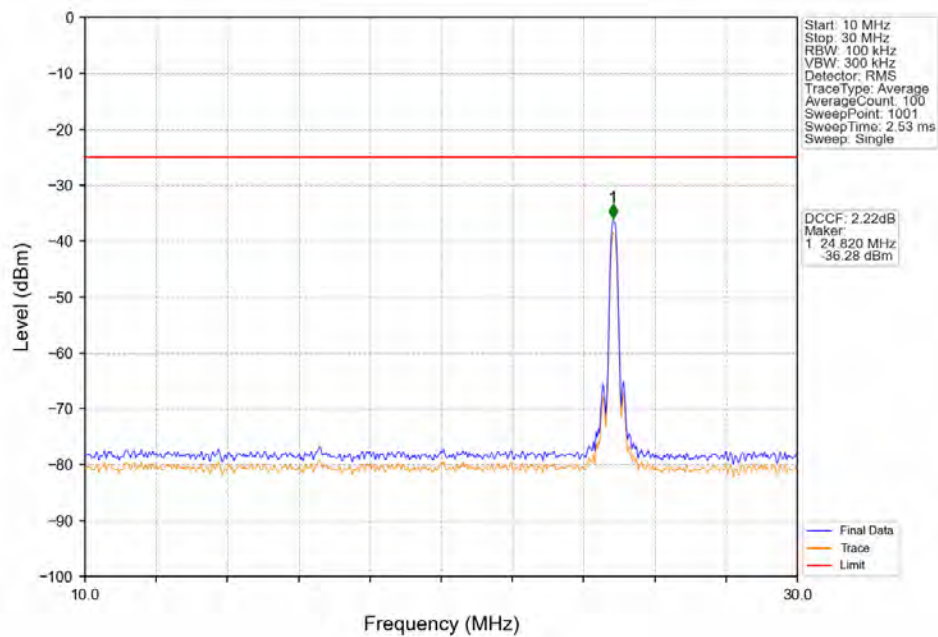
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



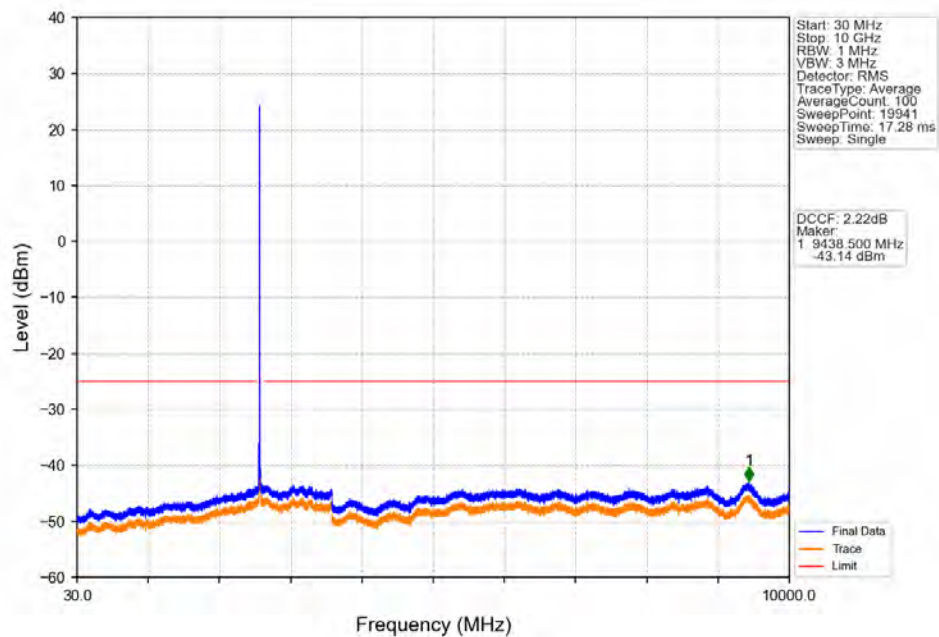
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



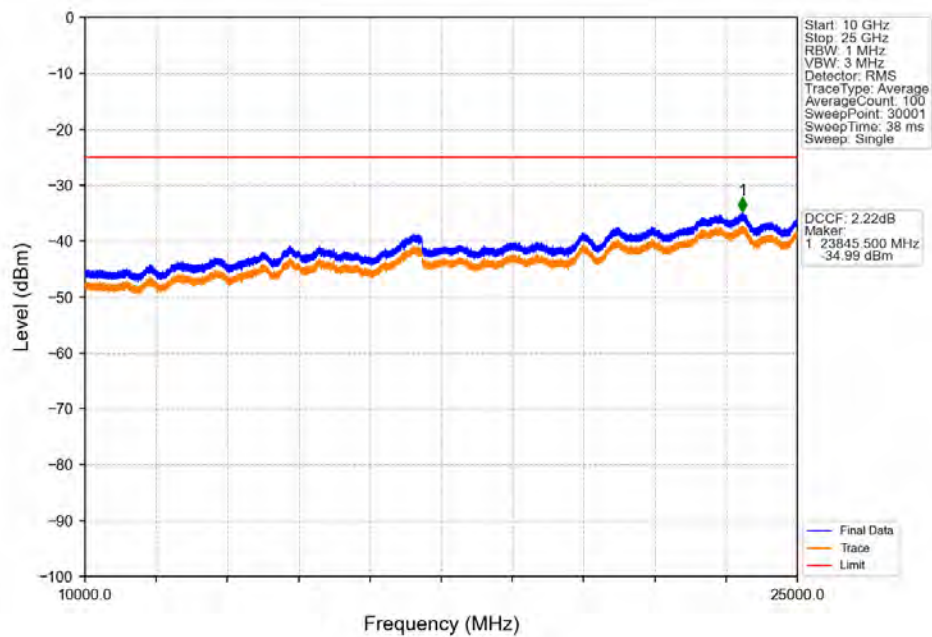
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTNV



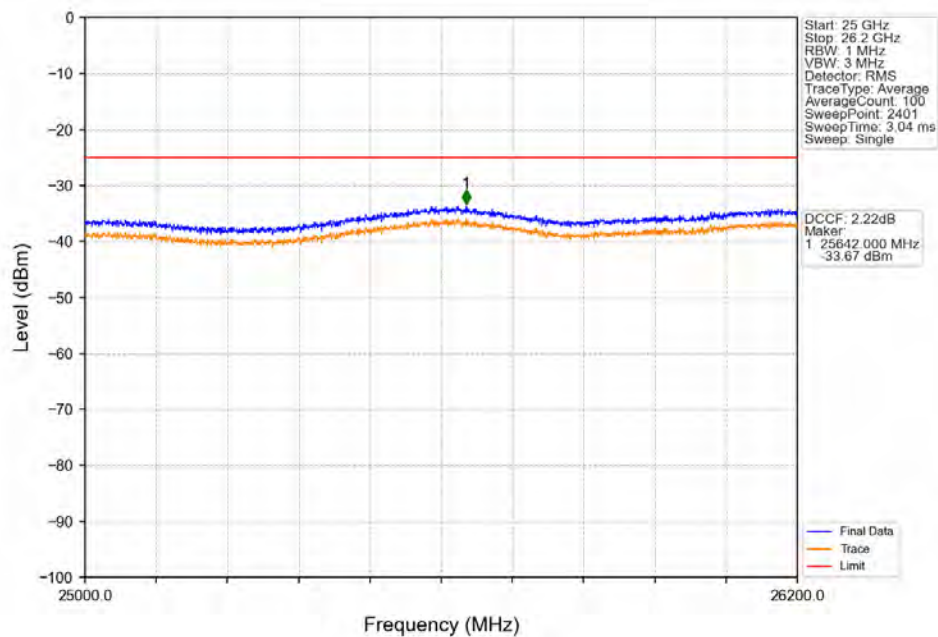
Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



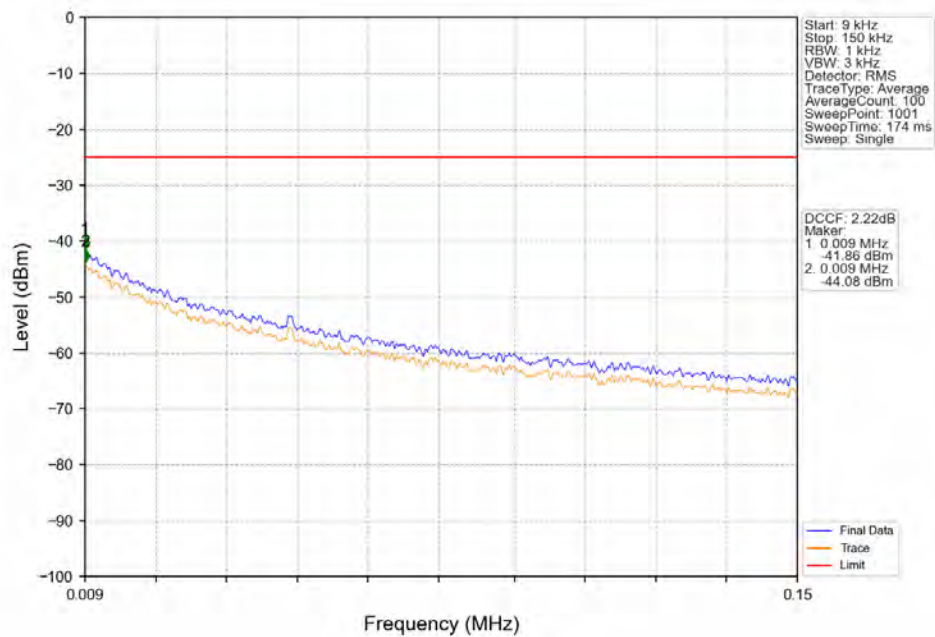
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



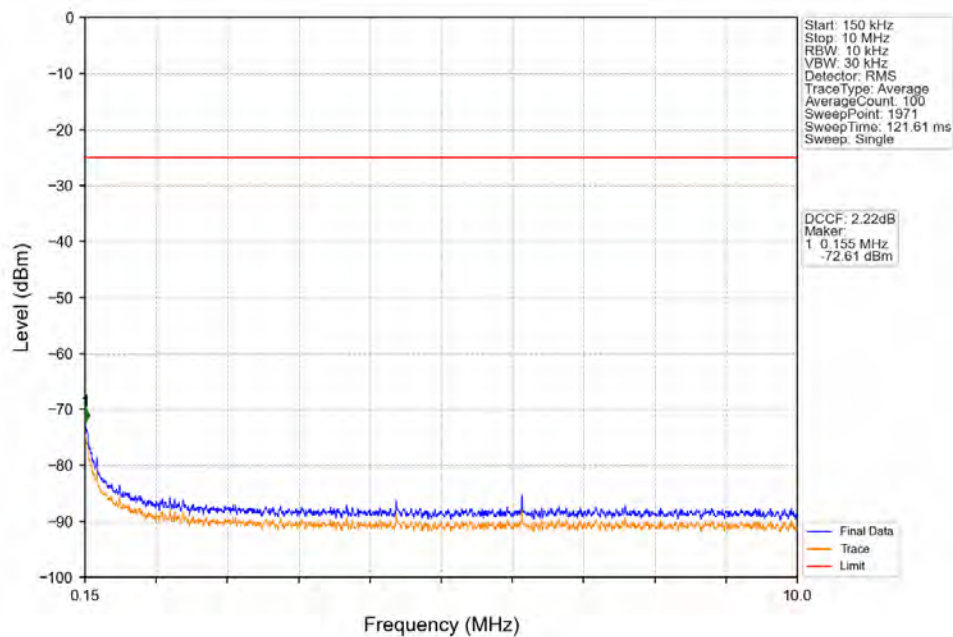
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



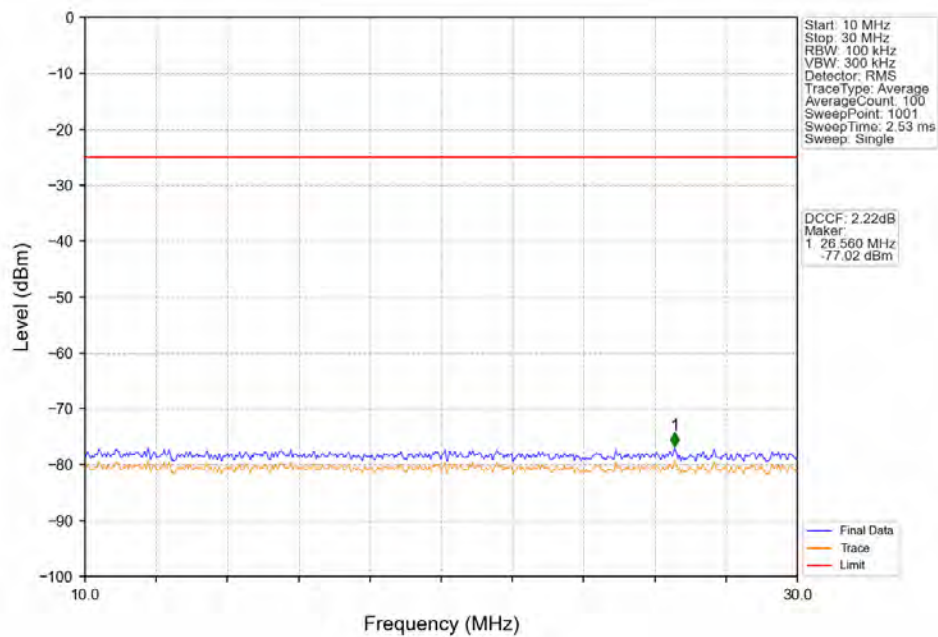
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV



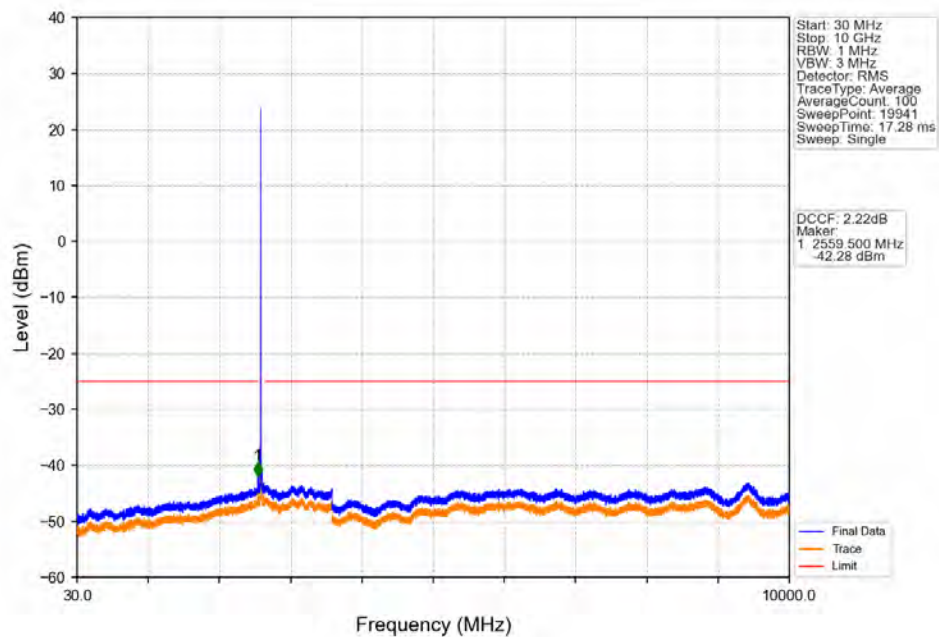
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV



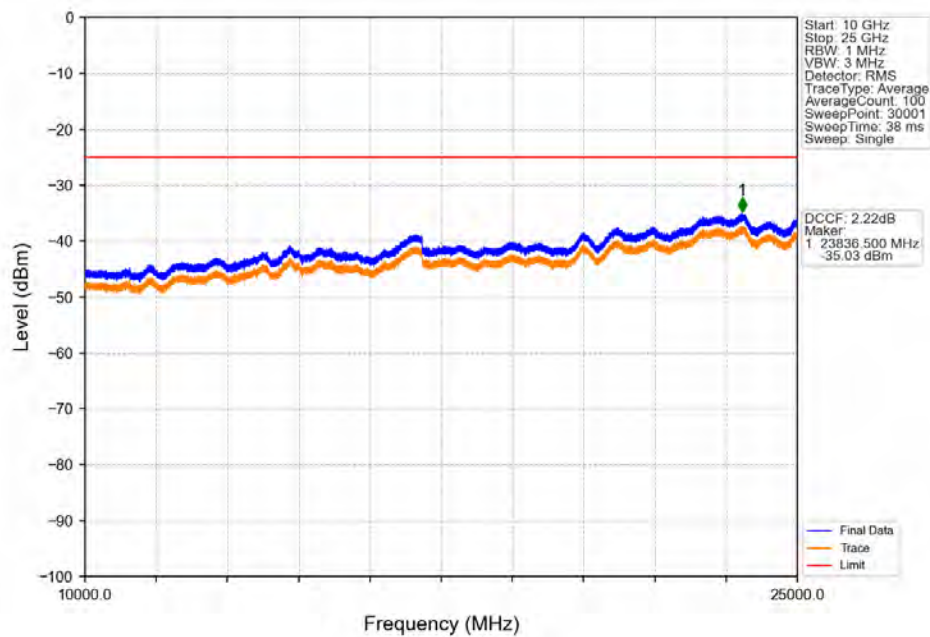
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



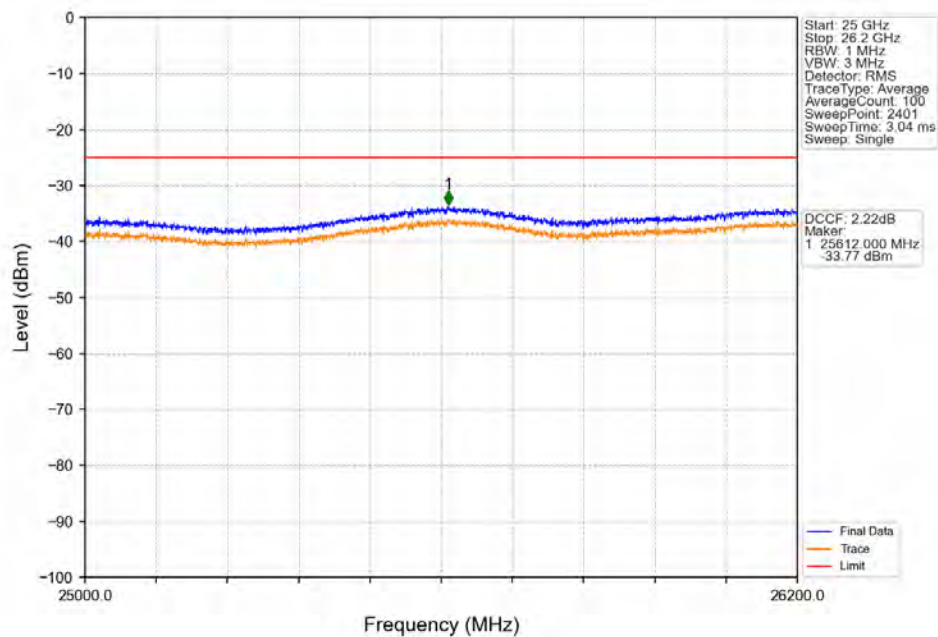
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV





## 6. Field Strength of Spurious Radiation

For Sample #1:

**Test Band = LTE Band38\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3725.625        | 44.75          | -45.61      | 28.96    | -67.16      | -25.00      | 42.16       | Horizontal |
| 2               | 5172.1800       | 43.83          | -45.30      | 31.71    | -65.02      | -25.00      | 40.02       | Horizontal |
| 3               | 7758.2700       | 47.13          | -42.65      | 36.76    | -54.02      | -25.00      | 29.02       | Horizontal |
| 4               | 10344.3600      | 40.44          | -39.05      | 38.53    | -55.34      | -25.00      | 30.34       | Horizontal |
| 5               | 12930.4500      | 41.80          | -37.18      | 39.38    | -51.26      | -25.00      | 26.26       | Horizontal |
| 6               | 15516.5400      | 41.99          | -35.30      | 40.51    | -48.06      | -25.00      | 23.06       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3922.875        | 45.47          | -46.23      | 29.28    | -66.74      | -25.00      | 41.74       | Vertical |
| 2               | 5746.125        | 45.31          | -44.80      | 32.35    | -62.40      | -25.00      | 37.40       | Vertical |
| 3               | 7242.375        | 45.81          | -43.56      | 35.68    | -57.33      | -25.00      | 32.33       | Vertical |
| 4               | 8655.375        | 44.32          | -41.53      | 36.71    | -55.76      | -25.00      | 30.76       | Vertical |
| 5               | 10957.5         | 41.61          | -37.83      | 38.60    | -52.88      | -25.00      | 27.88       | Vertical |
| 6               | 13593.375       | 43.61          | -36.14      | 40.23    | -47.56      | -25.00      | 22.56       | Vertical |

**Test Band = LTE Band38\_ TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3822            | 45.29          | -46.00      | 29.12    | -66.85      | -25.00      | 41.85       | Horizontal |
| 2               | 5172.375        | 46.25          | -45.30      | 31.71    | -62.60      | -25.00      | 37.60       | Horizontal |
| 3               | 6063.375        | 45.19          | -44.59      | 32.62    | -62.04      | -25.00      | 37.04       | Horizontal |
| 4               | 7847.625        | 44.70          | -42.55      | 36.89    | -56.23      | -25.00      | 31.23       | Horizontal |
| 5               | 9978.75         | 42.42          | -39.26      | 38.46    | -53.64      | -25.00      | 28.64       | Horizontal |
| 6               | 12510           | 42.61          | -37.02      | 39.25    | -50.41      | -25.00      | 25.41       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4093.125        | 45.14          | -45.78      | 29.62    | -66.28      | -25.00      | 41.28       | Vertical |
| 2               | 5460.75         | 46.08          | -45.26      | 32.23    | -62.21      | -25.00      | 37.21       | Vertical |
| 3               | 6746.25         | 45.25          | -43.98      | 34.54    | -59.44      | -25.00      | 34.44       | Vertical |
| 4               | 9237            | 42.73          | -40.24      | 36.97    | -55.79      | -25.00      | 30.79       | Vertical |
| 5               | 11352           | 42.63          | -37.39      | 38.78    | -51.25      | -25.00      | 26.25       | Vertical |
| 6               | 13759.875       | 44.12          | -36.30      | 40.46    | -46.98      | -25.00      | 21.98       | Vertical |

**Test Band = LTE Band38\_ TM1**  
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4144.875        | 44.68          | -45.76      | 29.75    | -66.60      | -25.00      | 41.60       | Horizontal |
| 2               | 5535            | 45.29          | -45.18      | 32.31    | -62.84      | -25.00      | 37.84       | Horizontal |
| 3               | 7869.75         | 45.19          | -42.67      | 36.92    | -55.82      | -25.00      | 30.82       | Horizontal |
| 4               | 10117.5         | 42.18          | -39.19      | 38.51    | -53.75      | -25.00      | 28.75       | Horizontal |
| 5               | 13425.75        | 43.43          | -36.49      | 40.00    | -48.33      | -25.00      | 23.33       | Horizontal |
| 6               | 15725.25        | 44.03          | -33.51      | 40.08    | -44.67      | -25.00      | 19.67       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4365            | 45.61          | -45.72      | 30.28    | -65.10      | -25.00      | 40.10       | Vertical |
| 2               | 5828.25         | 45.15          | -44.81      | 32.37    | -62.56      | -25.00      | 37.56       | Vertical |
| 3               | 7758.375        | 45.36          | -42.65      | 36.76    | -55.79      | -25.00      | 30.79       | Vertical |
| 4               | 10355.625       | 42.19          | -39.05      | 38.54    | -53.58      | -25.00      | 28.58       | Vertical |
| 5               | 12913.5         | 43.07          | -37.14      | 39.37    | -49.96      | -25.00      | 24.96       | Vertical |
| 6               | 15154.125       | 44.81          | -34.39      | 41.28    | -43.57      | -25.00      | 18.57       | Vertical |

For Sample #2:

**Test Band = LTE Band38\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4267            | 44.02          | -45.62      | 30.04    | -66.82      | -25.00      | 41.82       | Horizontal |
| 2               | 5712            | 43.73          | -44.84      | 32.34    | -64.03      | -25.00      | 39.03       | Horizontal |
| 3               | 6162            | 43.93          | -44.64      | 32.95    | -63.02      | -25.00      | 38.02       | Horizontal |
| 4               | 8228.5          | 41.49          | -42.23      | 36.96    | -59.04      | -25.00      | 34.04       | Horizontal |
| 5               | 10570           | 36.97          | -38.57      | 38.56    | -58.30      | -25.00      | 33.30       | Horizontal |
| 6               | 14205           | 33.33          | -35.34      | 40.96    | -56.31      | -25.00      | 31.31       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4270            | 43.88          | -45.61      | 30.05    | -66.94      | -25.00      | 41.94       | Vertical |
| 2               | 6084.5          | 43.91          | -44.51      | 32.69    | -63.17      | -25.00      | 38.17       | Vertical |
| 3               | 7711.5          | 42.14          | -43.03      | 36.70    | -59.45      | -25.00      | 34.45       | Vertical |
| 4               | 9841            | 38.58          | -39.42      | 38.18    | -57.92      | -25.00      | 32.92       | Vertical |
| 5               | 11925           | 36.19          | -37.23      | 39.06    | -57.24      | -25.00      | 32.24       | Vertical |
| 6               | 13838           | 34.47          | -36.04      | 40.57    | -56.26      | -25.00      | 31.26       | Vertical |

**Test Band = LTE Band38\_TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3619            | 44.58          | -46.01      | 28.79    | -67.90      | -25.00      | 42.90       | Horizontal |
| 2               | 5153            | 43.49          | -45.32      | 31.68    | -65.42      | -25.00      | 40.42       | Horizontal |
| 3               | 6603.5          | 42.84          | -44.33      | 34.29    | -62.46      | -25.00      | 37.46       | Horizontal |
| 4               | 7782            | 41.95          | -42.46      | 36.79    | -58.97      | -25.00      | 33.97       | Horizontal |
| 5               | 10665.5         | 37.12          | -38.08      | 38.57    | -57.66      | -25.00      | 32.66       | Horizontal |
| 6               | 12978.5         | 36.32          | -37.28      | 39.39    | -56.83      | -25.00      | 31.83       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4365            | 44.91          | -45.72      | 30.28    | -65.80      | -25.00      | 40.80       | Vertical |
| 2               | 5723.5          | 43.80          | -44.83      | 32.34    | -63.94      | -25.00      | 38.94       | Vertical |
| 3               | 7001            | 43.07          | -43.56      | 35.00    | -60.74      | -25.00      | 35.74       | Vertical |
| 4               | 8415            | 41.72          | -41.48      | 36.85    | -58.16      | -25.00      | 33.16       | Vertical |
| 5               | 10036           | 38.27          | -39.20      | 38.50    | -57.68      | -25.00      | 32.68       | Vertical |
| 6               | 12343.5         | 35.95          | -37.48      | 39.20    | -57.58      | -25.00      | 32.58       | Vertical |

**Test Band = LTE Band38\_ TM1**  
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4036.5          | 43.86          | -45.94      | 29.49    | -67.85      | -25.00      | 42.85       | Horizontal |
| 2               | 5376            | 44.73          | -45.25      | 32.08    | -63.70      | -25.00      | 38.70       | Horizontal |
| 3               | 6928            | 42.93          | -43.95      | 34.87    | -61.41      | -25.00      | 36.41       | Horizontal |
| 4               | 8772            | 41.70          | -41.37      | 36.64    | -58.30      | -25.00      | 33.30       | Horizontal |
| 5               | 11004           | 36.54          | -37.85      | 38.60    | -57.96      | -25.00      | 32.96       | Horizontal |
| 6               | 13845.5         | 34.07          | -35.97      | 40.58    | -56.57      | -25.00      | 31.57       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3996            | 44.35          | -46.05      | 29.39    | -67.57      | -25.00      | 42.57       | Vertical |
| 2               | 5851            | 43.71          | -44.86      | 32.37    | -64.04      | -25.00      | 39.04       | Vertical |
| 3               | 7218            | 43.08          | -43.48      | 35.61    | -60.05      | -25.00      | 35.05       | Vertical |
| 4               | 9529            | 40.12          | -40.07      | 37.56    | -57.65      | -25.00      | 32.65       | Vertical |
| 5               | 11577           | 35.57          | -36.99      | 38.89    | -57.80      | -25.00      | 32.80       | Vertical |
| 6               | 15401.5         | 32.04          | -33.52      | 40.76    | -55.98      | -25.00      | 30.98       | Vertical |