

|                 |      |                 |       |       |       |       |       |       |      |      |
|-----------------|------|-----------------|-------|-------|-------|-------|-------|-------|------|------|
|                 |      | Inner 1RB Left  | 18.97 | 18.85 | 21.92 | 21.57 | 21.45 | 24.52 | <=33 | Pass |
|                 |      | Inner 1RB Right | 19.09 | 19.17 | 22.14 | 21.69 | 21.77 | 24.74 | <=33 | Pass |
|                 | 2595 | Outer Full      | 19.08 | 19.06 | 22.08 | 21.68 | 21.66 | 24.68 | <=33 | Pass |
|                 |      | Inner Full      | 19.03 | 19.01 | 22.03 | 21.63 | 21.61 | 24.63 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 18.91 | 18.81 | 21.87 | 21.51 | 21.41 | 24.47 | <=33 | Pass |
|                 |      | Inner 1RB Right | 19.15 | 19.24 | 22.21 | 21.75 | 21.84 | 24.81 | <=33 | Pass |
|                 | 2600 | Outer Full      | 19.08 | 19.07 | 22.09 | 21.68 | 21.67 | 24.69 | <=33 | Pass |
|                 |      | Inner Full      | 19.10 | 19.09 | 22.11 | 21.70 | 21.69 | 24.71 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 18.97 | 18.87 | 21.93 | 21.57 | 21.47 | 24.53 | <=33 | Pass |
|                 |      | Inner 1RB Right | 19.18 | 19.32 | 22.26 | 21.78 | 21.92 | 24.86 | <=33 | Pass |
| CP-OFDM QPSK    | 2590 | Outer Full      | 20.26 | 20.25 | 23.26 | 22.86 | 22.85 | 25.87 | <=33 | Pass |
|                 |      | Inner Full      | 21.82 | 21.81 | 24.83 | 24.42 | 24.41 | 27.43 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.47 | 21.35 | 24.42 | 24.07 | 23.95 | 27.02 | <=33 | Pass |
|                 |      | Inner 1RB Right | 21.80 | 21.88 | 24.85 | 24.40 | 24.48 | 27.45 | <=33 | Pass |
|                 | 2595 | Outer Full      | 20.32 | 20.30 | 23.32 | 22.92 | 22.90 | 25.92 | <=33 | Pass |
|                 |      | Inner Full      | 21.91 | 21.89 | 24.91 | 24.51 | 24.49 | 27.51 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.54 | 21.43 | 24.50 | 24.14 | 24.03 | 27.10 | <=33 | Pass |
|                 |      | Inner 1RB Right | 22.04 | 22.13 | 25.10 | 24.64 | 24.73 | 27.70 | <=33 | Pass |
|                 | 2600 | Outer Full      | 20.36 | 20.36 | 23.37 | 22.96 | 22.96 | 25.97 | <=33 | Pass |
|                 |      | Inner Full      | 21.82 | 21.81 | 24.83 | 24.42 | 24.41 | 27.43 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.58 | 21.48 | 24.54 | 24.18 | 24.08 | 27.14 | <=33 | Pass |
|                 |      | Inner 1RB Right | 21.90 | 22.04 | 24.98 | 24.50 | 24.64 | 27.58 | <=33 | Pass |
| CP-OFDM 16 QAM  | 2590 | Outer Full      | 20.23 | 20.22 | 23.24 | 22.83 | 22.82 | 25.84 | <=33 | Pass |
|                 |      | Inner Full      | 21.33 | 21.33 | 24.34 | 23.93 | 23.93 | 26.94 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.16 | 21.04 | 24.11 | 23.76 | 23.64 | 26.71 | <=33 | Pass |
|                 |      | Inner 1RB Right | 21.46 | 21.54 | 24.51 | 24.06 | 24.14 | 27.11 | <=33 | Pass |
|                 | 2595 | Outer Full      | 20.33 | 20.31 | 23.33 | 22.93 | 22.91 | 25.93 | <=33 | Pass |
|                 |      | Inner Full      | 21.37 | 21.36 | 24.38 | 23.97 | 23.96 | 26.98 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.34 | 21.23 | 24.30 | 23.94 | 23.83 | 26.90 | <=33 | Pass |
|                 |      | Inner 1RB Right | 21.70 | 21.79 | 24.75 | 24.30 | 24.39 | 27.36 | <=33 | Pass |
|                 | 2600 | Outer Full      | 20.32 | 20.33 | 23.34 | 22.92 | 22.93 | 25.94 | <=33 | Pass |
|                 |      | Inner Full      | 21.37 | 21.35 | 24.37 | 23.97 | 23.95 | 26.97 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 21.45 | 21.36 | 24.41 | 24.05 | 23.96 | 27.02 | <=33 | Pass |
|                 |      | Inner 1RB Right | 21.82 | 21.96 | 24.90 | 24.42 | 24.56 | 27.50 | <=33 | Pass |
| CP-OFDM 64 QAM  | 2590 | Outer Full      | 19.83 | 19.81 | 22.83 | 22.43 | 22.41 | 25.43 | <=33 | Pass |
|                 |      | Inner Full      | 19.81 | 19.81 | 22.82 | 22.41 | 22.41 | 25.42 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 19.53 | 19.41 | 22.48 | 22.13 | 22.01 | 25.08 | <=33 | Pass |
|                 |      | Inner 1RB Right | 19.77 | 19.86 | 22.82 | 22.37 | 22.46 | 25.43 | <=33 | Pass |
|                 | 2595 | Outer Full      | 19.88 | 19.87 | 22.89 | 22.48 | 22.47 | 25.49 | <=33 | Pass |
|                 |      | Inner Full      | 19.72 | 19.70 | 22.72 | 22.32 | 22.30 | 25.32 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 19.67 | 19.56 | 22.63 | 22.27 | 22.16 | 25.23 | <=33 | Pass |
|                 |      | Inner 1RB Right | 20.06 | 20.15 | 23.11 | 22.66 | 22.75 | 25.72 | <=33 | Pass |
|                 | 2600 | Outer Full      | 19.94 | 19.94 | 22.95 | 22.54 | 22.54 | 25.55 | <=33 | Pass |
|                 |      | Inner Full      | 19.79 | 19.77 | 22.79 | 22.39 | 22.37 | 25.39 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 19.72 | 19.62 | 22.68 | 22.32 | 22.22 | 25.28 | <=33 | Pass |
|                 |      | Inner 1RB Right | 20.12 | 20.26 | 23.20 | 22.72 | 22.86 | 25.80 | <=33 | Pass |
| CP-OFDM 256 QAM | 2590 | Outer Full      | 16.98 | 16.97 | 19.99 | 19.58 | 19.57 | 22.59 | <=33 | Pass |
|                 |      | Inner Full      | 17.00 | 17.00 | 20.01 | 19.60 | 19.60 | 22.61 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 16.93 | 16.81 | 19.88 | 19.53 | 19.41 | 22.48 | <=33 | Pass |
|                 |      | Inner 1RB Right | 17.15 | 17.24 | 20.21 | 19.75 | 19.84 | 22.81 | <=33 | Pass |
|                 | 2595 | Outer Full      | 17.09 | 17.07 | 20.09 | 19.69 | 19.67 | 22.69 | <=33 | Pass |
|                 |      | Inner Full      | 17.07 | 17.05 | 20.07 | 19.67 | 19.65 | 22.67 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 16.95 | 16.85 | 19.91 | 19.55 | 19.45 | 22.51 | <=33 | Pass |
|                 |      | Inner 1RB Right | 17.22 | 17.31 | 20.27 | 19.82 | 19.91 | 22.88 | <=33 | Pass |
|                 | 2600 | Outer Full      | 17.08 | 17.09 | 20.09 | 19.68 | 19.69 | 22.70 | <=33 | Pass |
|                 |      | Inner Full      | 17.06 | 17.05 | 20.07 | 19.66 | 19.65 | 22.67 | <=33 | Pass |
|                 |      | Inner 1RB Left  | 16.98 | 16.88 | 19.94 | 19.58 | 19.48 | 22.54 | <=33 | Pass |
|                 |      | Inner 1RB Right | 17.34 | 17.48 | 20.42 | 19.94 | 20.08 | 23.02 | <=33 | Pass |

Note1: Antenna Gain: Ant1: 2.60dBi; Ant2: 2.60dBi;

Note2: EIRP Ant\_1=Conducted Power\_1+Ant Gain\_1 / EIRP Ant\_2=Conducted Power\_2+Ant Gain\_2 / Sum=EIRP Ant\_1+EIRP Ant\_2

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 30k\_SISO\_40MHz

| 5G NR n38 SCS=30kHz SISO 40MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 2595            | Outer_Full    | 20         | LV    | -3.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.00            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -1.90            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.60            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -4.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 4.00             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 3.00             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.60             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -2.20            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 3.10             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
| CP-OFDM QPSK                   | 2595            | Outer_Full    | 20         | LV    | -2.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.80            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -2.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -2.80            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.90            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -3.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -1.80            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -1.30            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 1.70             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.20             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -1.30            | -0.0005               | >=-2.5 & <=2.5 | Pass    |

## 3. 99% & 26dB Bandwidth

### 3.1 Test Result

#### 3.1.1 30k\_SISO\_10MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2575            | Outer_Full    | 8.60                | 9.36                 | /           | Pass    |
|                                    | 2595            | Outer_Full    | 8.59                | 9.35                 | /           | Pass    |
|                                    | 2615            | Outer_Full    | 8.57                | 9.26                 | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2575            | Outer_Full    | 8.56                | 9.44                 | /           | Pass    |
|                                    | 2595            | Outer_Full    | 8.61                | 9.43                 | /           | Pass    |
|                                    | 2615            | Outer_Full    | 8.62                | 9.38                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2575            | Outer_Full    | 8.61                | 9.32                 | /           | Pass    |
|                                    | 2595            | Outer_Full    | 8.59                | 9.32                 | /           | Pass    |
|                                    | 2615            | Outer_Full    | 8.59                | 9.29                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2575            | Outer_Full    | 8.60                | 9.27                 | /           | Pass    |

|                    |      |            |      |      |   |      |
|--------------------|------|------------|------|------|---|------|
| DFT-s-OFDM 256 QAM | 2595 | Outer_Full | 8.60 | 9.47 | / | Pass |
|                    | 2615 | Outer_Full | 8.59 | 9.35 | / | Pass |
|                    | 2575 | Outer_Full | 8.61 | 9.47 | / | Pass |
|                    | 2595 | Outer_Full | 8.59 | 9.38 | / | Pass |
|                    | 2615 | Outer_Full | 8.58 | 9.36 | / | Pass |
| CP-OFDM QPSK       | 2575 | Outer_Full | 8.63 | 9.38 | / | Pass |
|                    | 2595 | Outer_Full | 8.65 | 9.38 | / | Pass |
|                    | 2615 | Outer_Full | 8.64 | 9.42 | / | Pass |
| CP-OFDM 16 QAM     | 2575 | Outer_Full | 8.62 | 9.42 | / | Pass |
|                    | 2595 | Outer_Full | 8.62 | 9.49 | / | Pass |
|                    | 2615 | Outer_Full | 8.61 | 9.37 | / | Pass |
| CP-OFDM 64 QAM     | 2575 | Outer_Full | 8.66 | 9.35 | / | Pass |
|                    | 2595 | Outer_Full | 8.61 | 9.36 | / | Pass |
|                    | 2615 | Outer_Full | 8.62 | 9.45 | / | Pass |
| CP-OFDM 256 QAM    | 2575 | Outer_Full | 8.63 | 9.33 | / | Pass |
|                    | 2595 | Outer_Full | 8.59 | 9.36 | / | Pass |
|                    | 2615 | Outer_Full | 8.63 | 9.36 | / | Pass |

### 3.1.2 30k\_SISO\_15MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2577.5          | Outer_Full    | 12.91               | 13.93                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 12.93               | 13.71                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 12.94               | 13.93                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2577.5          | Outer_Full    | 12.94               | 13.87                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 12.97               | 13.77                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 12.91               | 13.83                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2577.5          | Outer_Full    | 12.93               | 13.79                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 12.97               | 13.77                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 12.94               | 13.77                | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2577.5          | Outer_Full    | 12.91               | 13.85                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 12.95               | 13.91                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 12.92               | 13.91                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 2577.5          | Outer_Full    | 12.94               | 13.70                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 12.99               | 13.82                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 12.96               | 13.72                | /           | Pass    |
| CP-OFDM QPSK                       | 2577.5          | Outer_Full    | 13.66               | 14.62                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 13.64               | 14.65                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 13.62               | 14.60                | /           | Pass    |
| CP-OFDM 16 QAM                     | 2577.5          | Outer_Full    | 13.62               | 14.62                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 13.63               | 14.47                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 13.61               | 14.49                | /           | Pass    |
| CP-OFDM 64 QAM                     | 2577.5          | Outer_Full    | 13.67               | 14.54                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 13.66               | 14.54                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 13.60               | 14.51                | /           | Pass    |
| CP-OFDM 256 QAM                    | 2577.5          | Outer_Full    | 13.60               | 14.61                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 13.62               | 14.66                | /           | Pass    |
|                                    | 2612.5          | Outer_Full    | 13.67               | 14.56                | /           | Pass    |

### 3.1.3 30k\_SISO\_20MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 20MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |

|                      |      |            |       |       |   |      |
|----------------------|------|------------|-------|-------|---|------|
| DFT-s-OFDM PI/2 BPSK | 2580 | Outer_Full | 18.05 | 19.29 | / | Pass |
|                      | 2595 | Outer_Full | 18.03 | 19.22 | / | Pass |
|                      | 2610 | Outer_Full | 18.01 | 19.22 | / | Pass |
| DFT-s-OFDM QPSK      | 2580 | Outer_Full | 18.02 | 19.09 | / | Pass |
|                      | 2595 | Outer_Full | 18.04 | 19.14 | / | Pass |
|                      | 2610 | Outer_Full | 18.05 | 19.32 | / | Pass |
| DFT-s-OFDM 16 QAM    | 2580 | Outer_Full | 18.02 | 19.18 | / | Pass |
|                      | 2595 | Outer_Full | 18.08 | 19.23 | / | Pass |
|                      | 2610 | Outer_Full | 18.06 | 19.22 | / | Pass |
| DFT-s-OFDM 64 QAM    | 2580 | Outer_Full | 17.99 | 19.22 | / | Pass |
|                      | 2595 | Outer_Full | 18.03 | 19.27 | / | Pass |
|                      | 2610 | Outer_Full | 17.95 | 19.11 | / | Pass |
| DFT-s-OFDM 256 QAM   | 2580 | Outer_Full | 18.03 | 19.18 | / | Pass |
|                      | 2595 | Outer_Full | 18.06 | 19.26 | / | Pass |
|                      | 2610 | Outer_Full | 18.01 | 19.20 | / | Pass |
| CP-OFDM QPSK         | 2580 | Outer_Full | 18.36 | 19.53 | / | Pass |
|                      | 2595 | Outer_Full | 18.37 | 19.51 | / | Pass |
|                      | 2610 | Outer_Full | 18.35 | 19.50 | / | Pass |
| CP-OFDM 16 QAM       | 2580 | Outer_Full | 18.37 | 19.59 | / | Pass |
|                      | 2595 | Outer_Full | 18.34 | 19.49 | / | Pass |
|                      | 2610 | Outer_Full | 18.34 | 19.51 | / | Pass |
| CP-OFDM 64 QAM       | 2580 | Outer_Full | 18.33 | 19.54 | / | Pass |
|                      | 2595 | Outer_Full | 18.33 | 19.50 | / | Pass |
|                      | 2610 | Outer_Full | 18.29 | 19.50 | / | Pass |
| CP-OFDM 256 QAM      | 2580 | Outer_Full | 18.33 | 19.61 | / | Pass |
|                      | 2595 | Outer_Full | 18.36 | 19.52 | / | Pass |
|                      | 2610 | Outer_Full | 18.30 | 19.51 | / | Pass |

## 3.1.4 30k\_SISO\_25MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 25MHz NTV |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2582.5          | Outer_Full    | 23.10               | 24.37                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 23.03               | 24.26                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 23.03               | 24.44                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2582.5          | Outer_Full    | 22.94               | 24.24                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 22.98               | 24.38                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 22.96               | 24.33                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2582.5          | Outer_Full    | 23.07               | 24.26                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 23.00               | 24.23                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 22.97               | 24.28                | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2582.5          | Outer_Full    | 23.01               | 24.25                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 22.98               | 24.18                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 23.08               | 24.25                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 2582.5          | Outer_Full    | 23.08               | 24.20                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 22.95               | 24.35                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 22.97               | 24.35                | /           | Pass    |
| CP-OFDM QPSK                       | 2582.5          | Outer_Full    | 23.22               | 24.55                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 23.24               | 24.57                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 23.26               | 24.73                | /           | Pass    |
| CP-OFDM 16 QAM                     | 2582.5          | Outer_Full    | 23.28               | 24.62                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 23.36               | 24.72                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 23.31               | 24.62                | /           | Pass    |
| CP-OFDM 64 QAM                     | 2582.5          | Outer_Full    | 23.29               | 24.56                | /           | Pass    |
|                                    | 2595            | Outer_Full    | 23.25               | 24.67                | /           | Pass    |
|                                    | 2607.5          | Outer_Full    | 23.34               | 24.59                | /           | Pass    |
| CP-OFDM 256 QAM                    | 2582.5          | Outer_Full    | 23.30               | 24.55                | /           | Pass    |

|  |        |            |       |       |   |      |
|--|--------|------------|-------|-------|---|------|
|  | 2595   | Outer Full | 23.25 | 24.57 | / | Pass |
|  | 2607.5 | Outer Full | 23.25 | 24.55 | / | Pass |

## 3.1.5 30k\_SISO\_30MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 30MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2585            | Outer Full    | 27.27               | 29.36                | /           | Pass    |
|                                    | 2595            | Outer Full    | 27.29               | 29.35                | /           | Pass    |
|                                    | 2605            | Outer Full    | 27.24               | 29.42                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2585            | Outer Full    | 27.27               | 29.40                | /           | Pass    |
|                                    | 2595            | Outer Full    | 27.22               | 29.45                | /           | Pass    |
|                                    | 2605            | Outer Full    | 27.19               | 29.50                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2585            | Outer Full    | 27.17               | 29.43                | /           | Pass    |
|                                    | 2595            | Outer Full    | 27.07               | 29.34                | /           | Pass    |
|                                    | 2605            | Outer Full    | 27.15               | 29.38                | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2585            | Outer Full    | 27.26               | 29.52                | /           | Pass    |
|                                    | 2595            | Outer Full    | 27.20               | 29.38                | /           | Pass    |
|                                    | 2605            | Outer Full    | 27.22               | 29.31                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 2585            | Outer Full    | 27.23               | 29.29                | /           | Pass    |
|                                    | 2595            | Outer Full    | 27.21               | 29.32                | /           | Pass    |
|                                    | 2605            | Outer Full    | 27.25               | 29.34                | /           | Pass    |
| CP-OFDM QPSK                       | 2585            | Outer Full    | 28.24               | 30.39                | /           | Pass    |
|                                    | 2595            | Outer Full    | 28.20               | 30.38                | /           | Pass    |
|                                    | 2605            | Outer Full    | 28.27               | 30.34                | /           | Pass    |
| CP-OFDM 16 QAM                     | 2585            | Outer Full    | 28.25               | 30.50                | /           | Pass    |
|                                    | 2595            | Outer Full    | 28.17               | 30.51                | /           | Pass    |
|                                    | 2605            | Outer Full    | 28.23               | 30.43                | /           | Pass    |
| CP-OFDM 64 QAM                     | 2585            | Outer Full    | 28.22               | 30.36                | /           | Pass    |
|                                    | 2595            | Outer Full    | 28.19               | 30.27                | /           | Pass    |
|                                    | 2605            | Outer Full    | 28.24               | 30.40                | /           | Pass    |
| CP-OFDM 256 QAM                    | 2585            | Outer Full    | 28.21               | 30.32                | /           | Pass    |
|                                    | 2595            | Outer Full    | 28.22               | 30.47                | /           | Pass    |
|                                    | 2605            | Outer Full    | 28.23               | 30.40                | /           | Pass    |

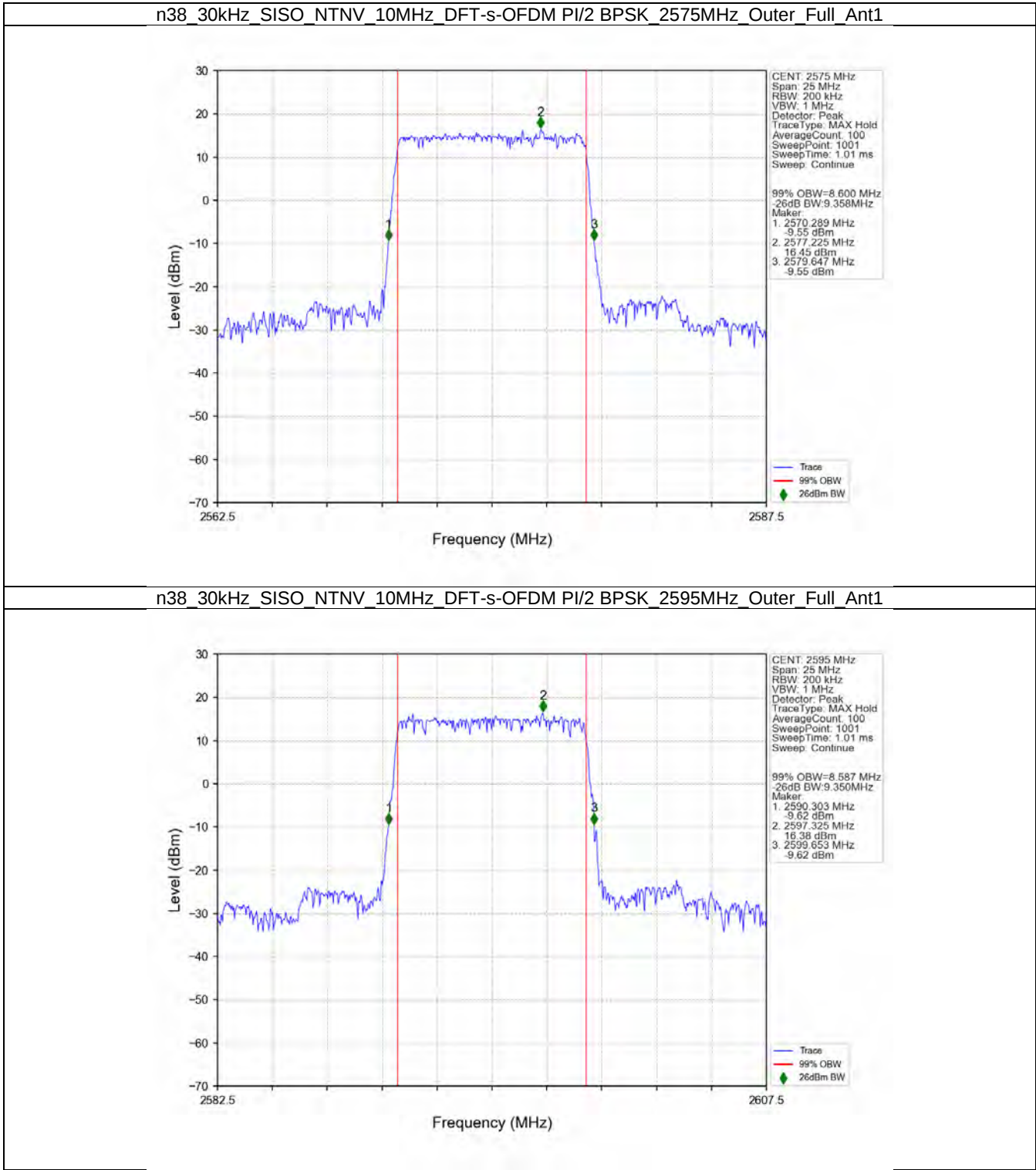
## 3.1.6 30k\_SISO\_40MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 40MHz NTN |                 |               |                     |                      |             |         |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK               | 2590            | Outer Full    | 36.12               | 38.34                | /           | Pass    |
|                                    | 2595            | Outer Full    | 36.14               | 38.32                | /           | Pass    |
|                                    | 2600            | Outer Full    | 35.98               | 38.43                | /           | Pass    |
| DFT-s-OFDM QPSK                    | 2590            | Outer Full    | 36.02               | 38.33                | /           | Pass    |
|                                    | 2595            | Outer Full    | 36.01               | 38.48                | /           | Pass    |
|                                    | 2600            | Outer Full    | 35.99               | 38.49                | /           | Pass    |
| DFT-s-OFDM 16 QAM                  | 2590            | Outer Full    | 35.93               | 38.36                | /           | Pass    |
|                                    | 2595            | Outer Full    | 35.95               | 38.47                | /           | Pass    |
|                                    | 2600            | Outer Full    | 35.98               | 38.41                | /           | Pass    |
| DFT-s-OFDM 64 QAM                  | 2590            | Outer Full    | 35.92               | 38.32                | /           | Pass    |
|                                    | 2595            | Outer Full    | 35.99               | 38.33                | /           | Pass    |
|                                    | 2600            | Outer Full    | 35.92               | 38.45                | /           | Pass    |
| DFT-s-OFDM 256 QAM                 | 2590            | Outer Full    | 36.09               | 38.41                | /           | Pass    |
|                                    | 2595            | Outer Full    | 36.14               | 38.53                | /           | Pass    |
|                                    | 2600            | Outer Full    | 36.01               | 38.40                | /           | Pass    |

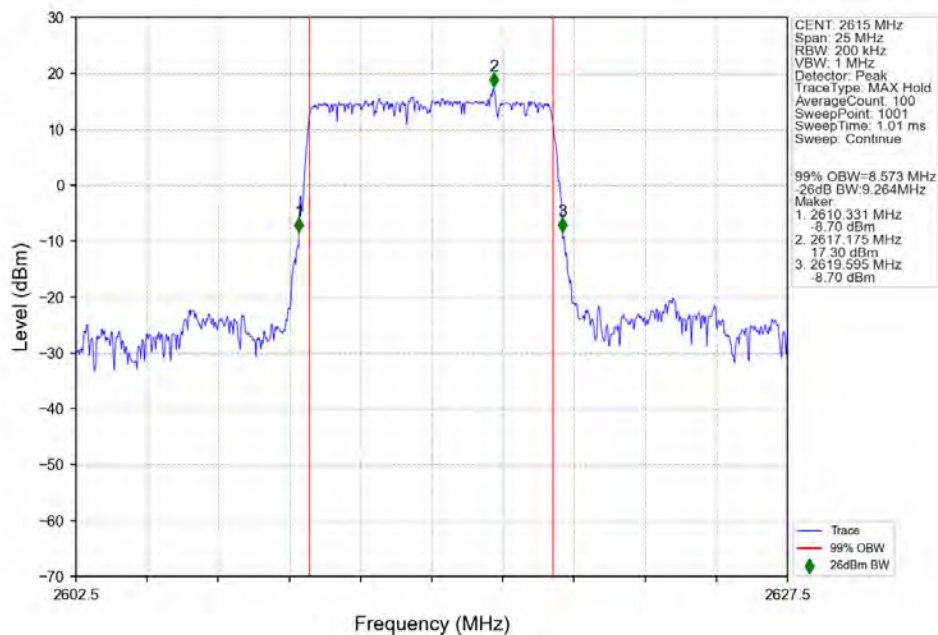
|                 |      |            |       |       |   |      |
|-----------------|------|------------|-------|-------|---|------|
| CP-OFDM QPSK    | 2590 | Outer Full | 38.04 | 40.51 | / | Pass |
|                 | 2595 | Outer Full | 38.06 | 40.53 | / | Pass |
|                 | 2600 | Outer Full | 38.09 | 40.62 | / | Pass |
| CP-OFDM 16 QAM  | 2590 | Outer Full | 38.06 | 40.54 | / | Pass |
|                 | 2595 | Outer Full | 38.12 | 40.62 | / | Pass |
|                 | 2600 | Outer Full | 38.11 | 40.48 | / | Pass |
| CP-OFDM 64 QAM  | 2590 | Outer Full | 38.10 | 40.48 | / | Pass |
|                 | 2595 | Outer Full | 38.12 | 40.47 | / | Pass |
|                 | 2600 | Outer Full | 38.13 | 40.52 | / | Pass |
| CP-OFDM 256 QAM | 2590 | Outer Full | 38.16 | 40.58 | / | Pass |
|                 | 2595 | Outer Full | 38.10 | 40.48 | / | Pass |
|                 | 2600 | Outer Full | 38.10 | 40.56 | / | Pass |

3.2 Test Graph

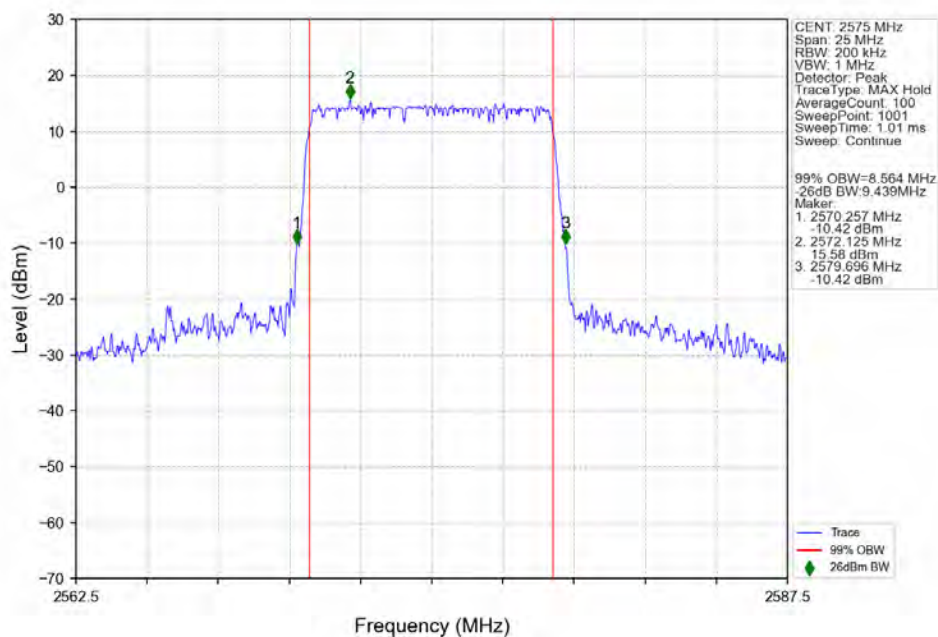
3.2.1 30k\_SISO\_10MHz\_NTNV



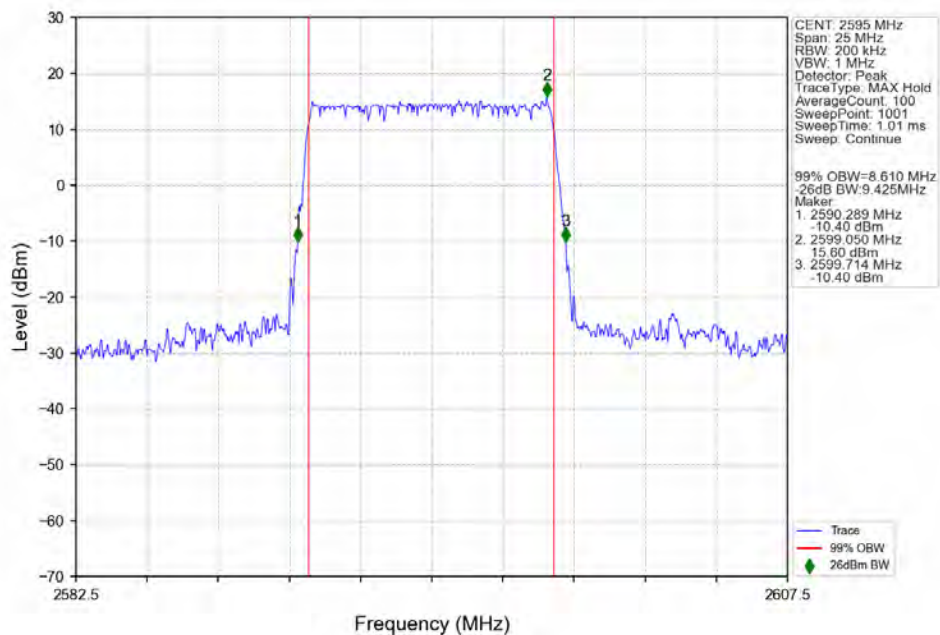
n38 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 2615MHz Outer Full Ant1



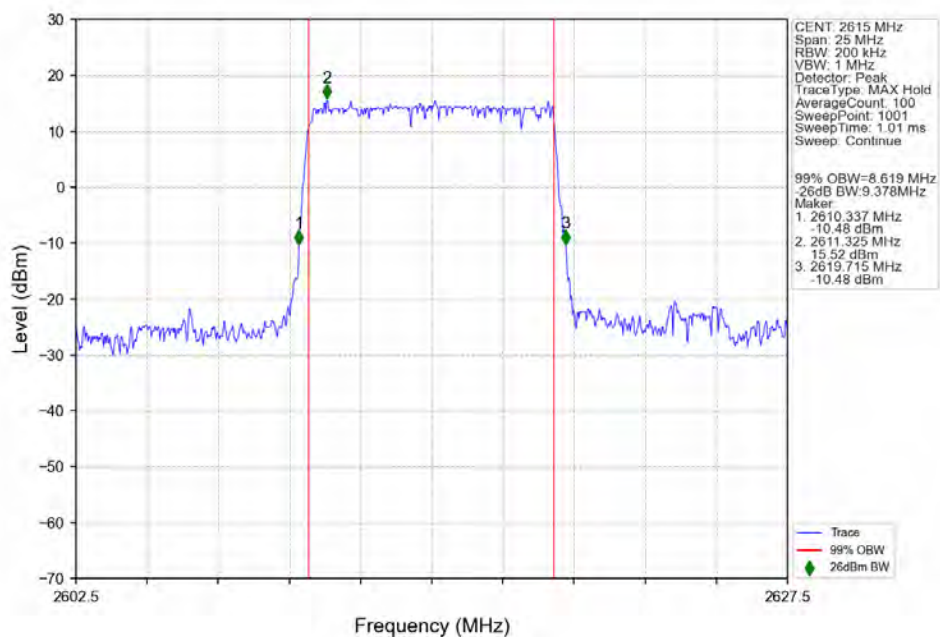
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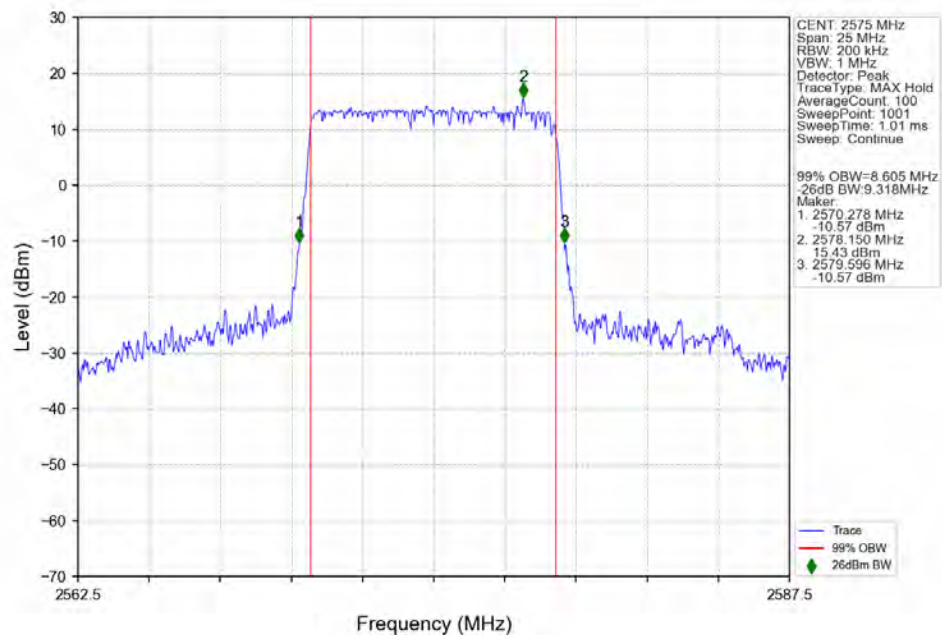
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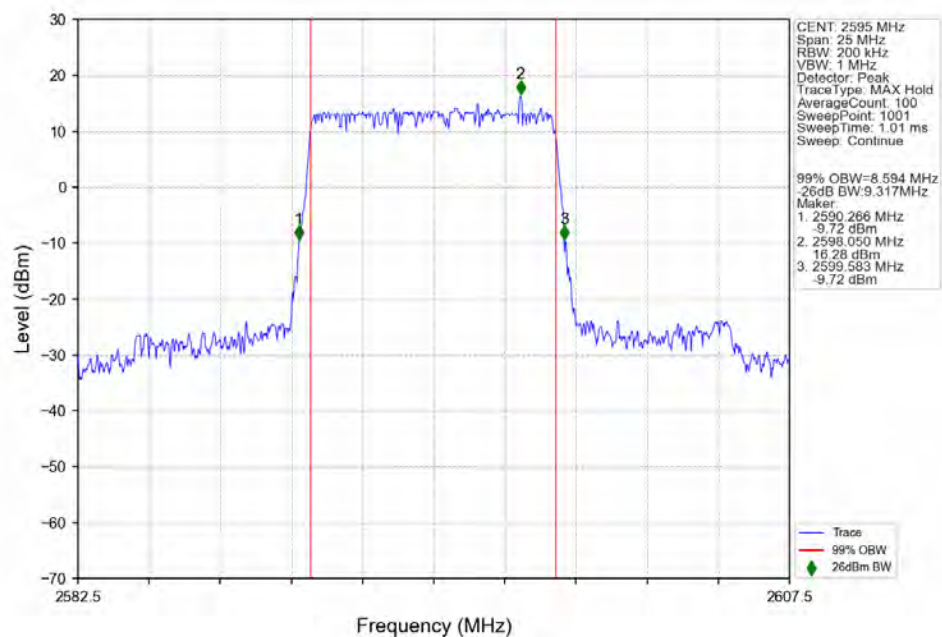
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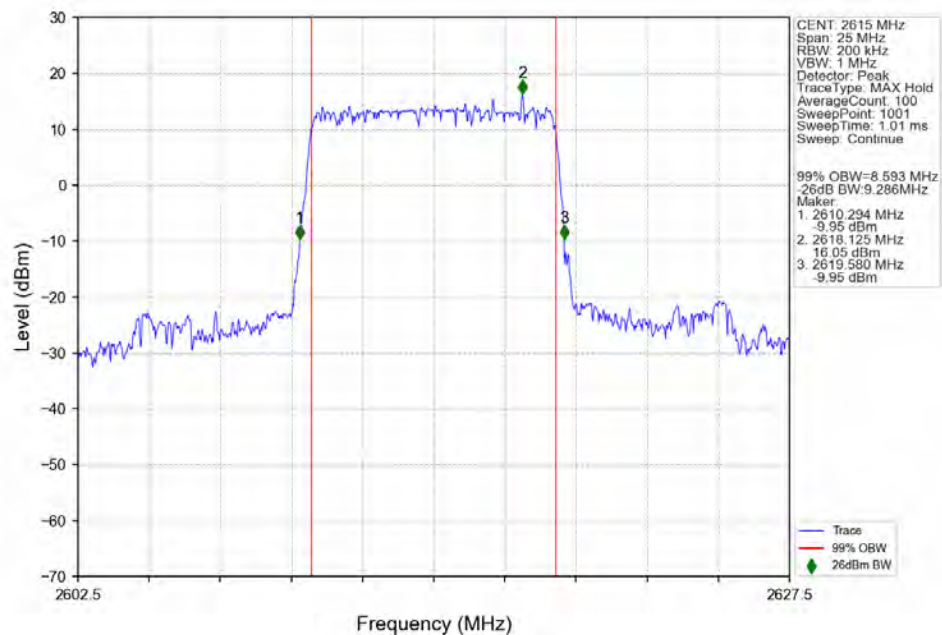
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2575MHz Outer Full Ant1



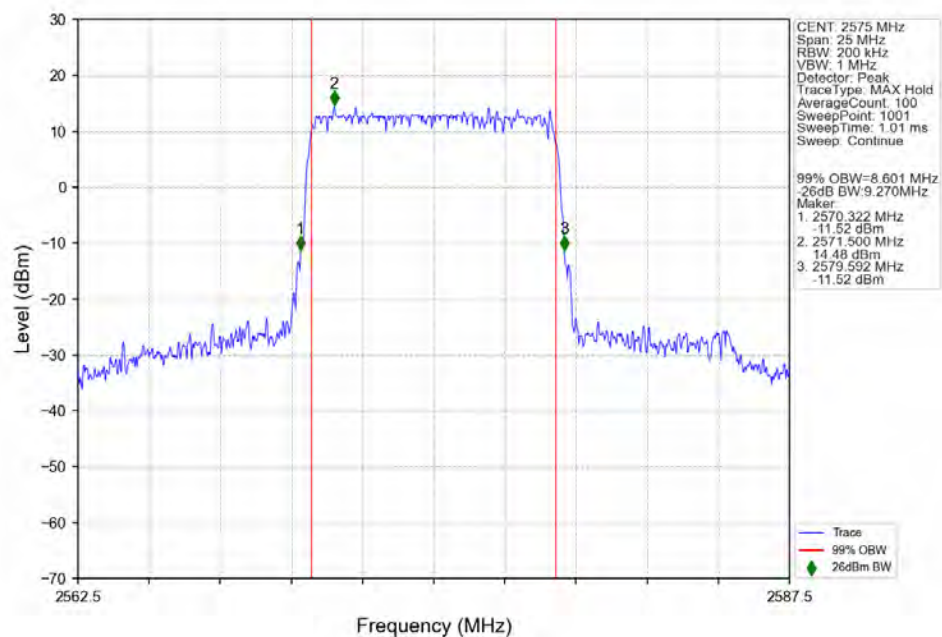
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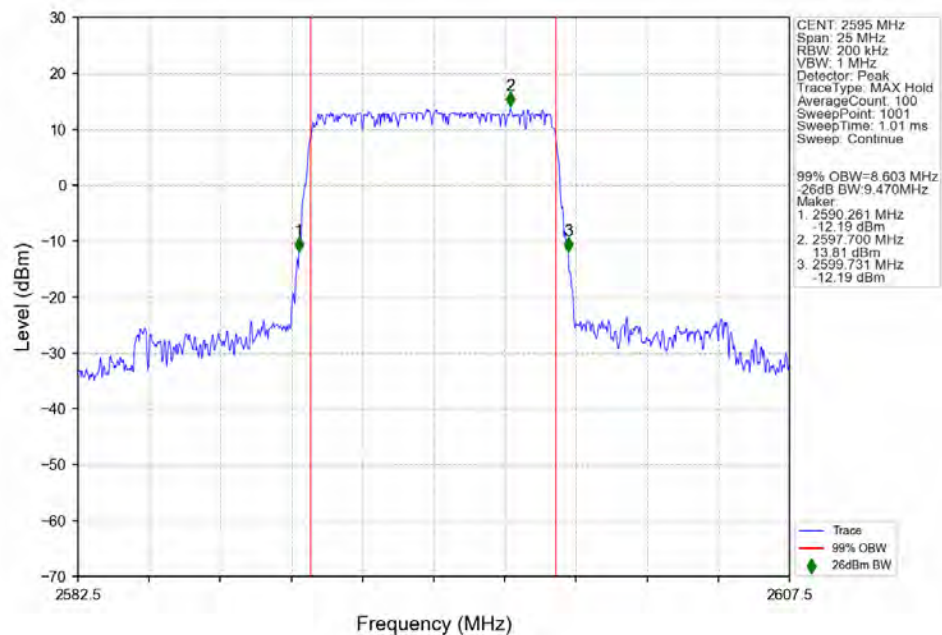
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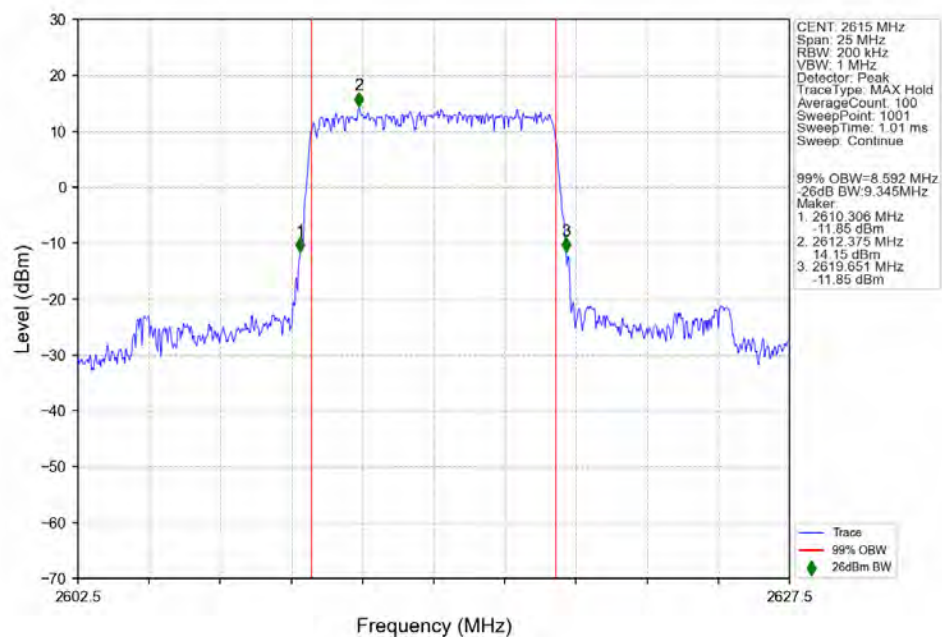
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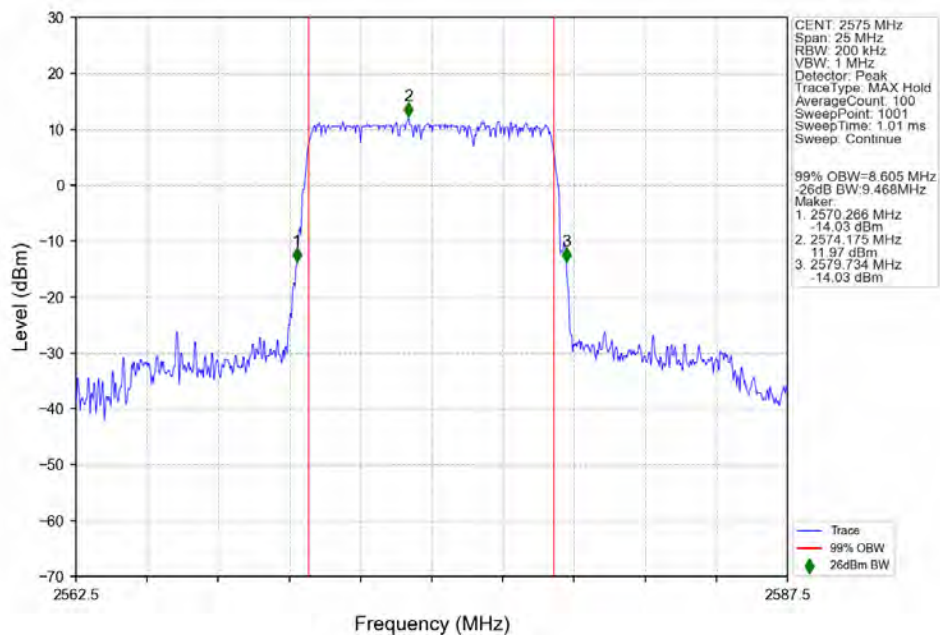
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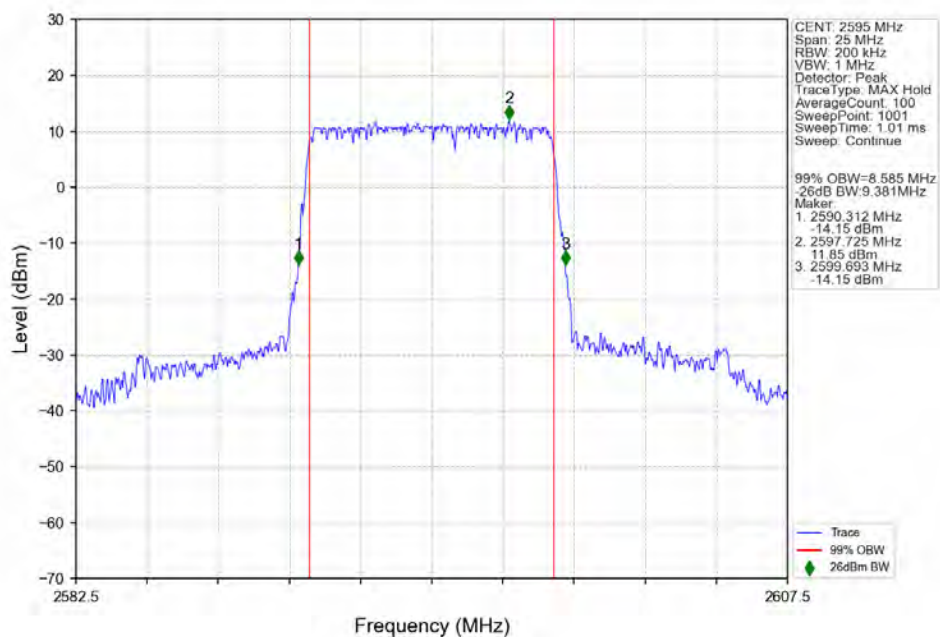
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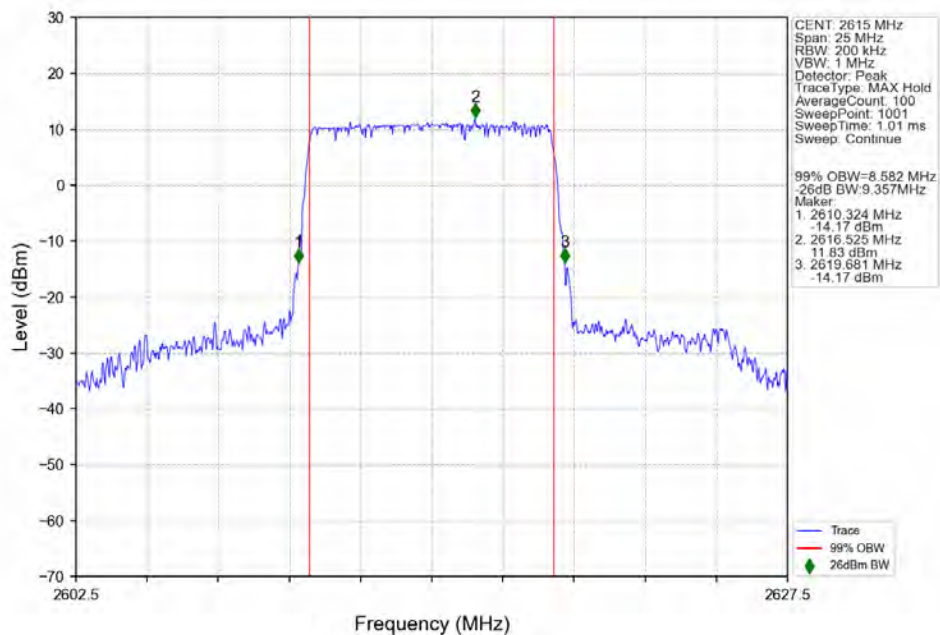
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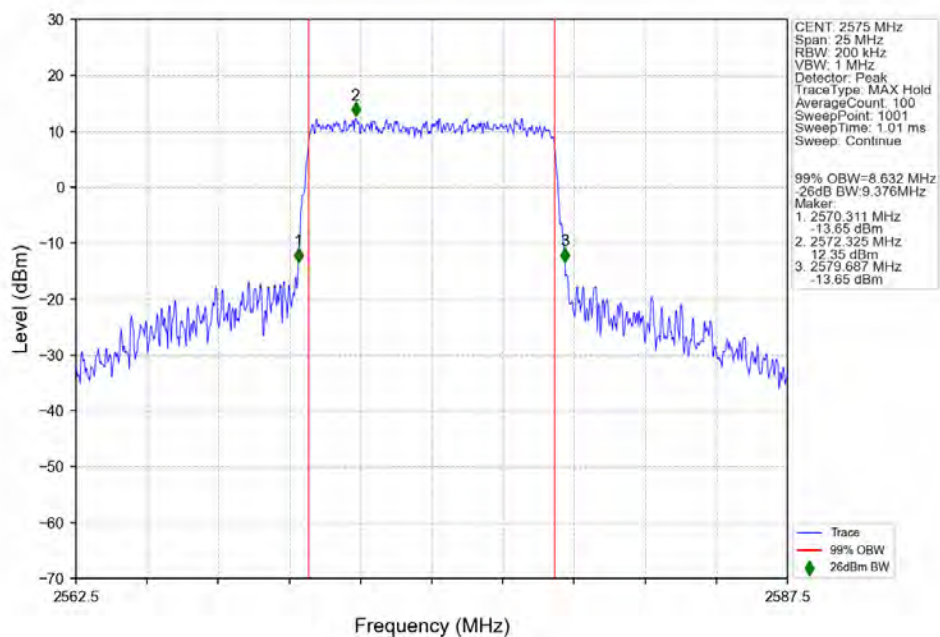
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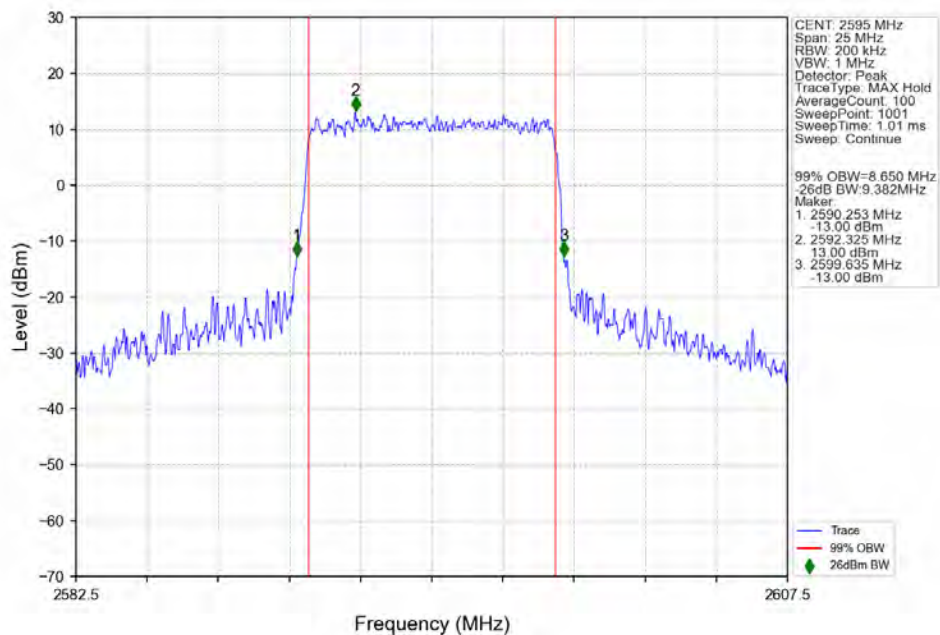
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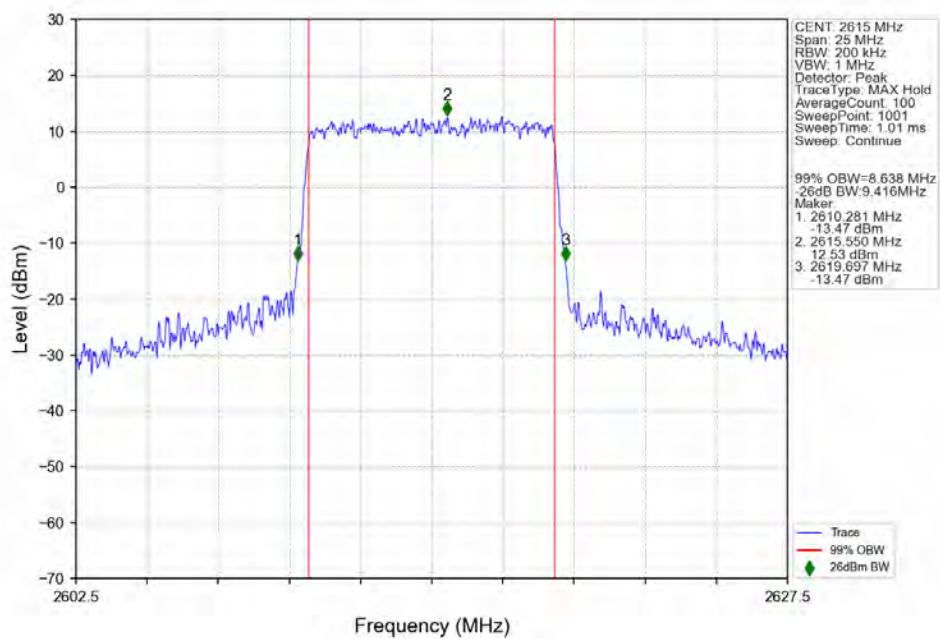
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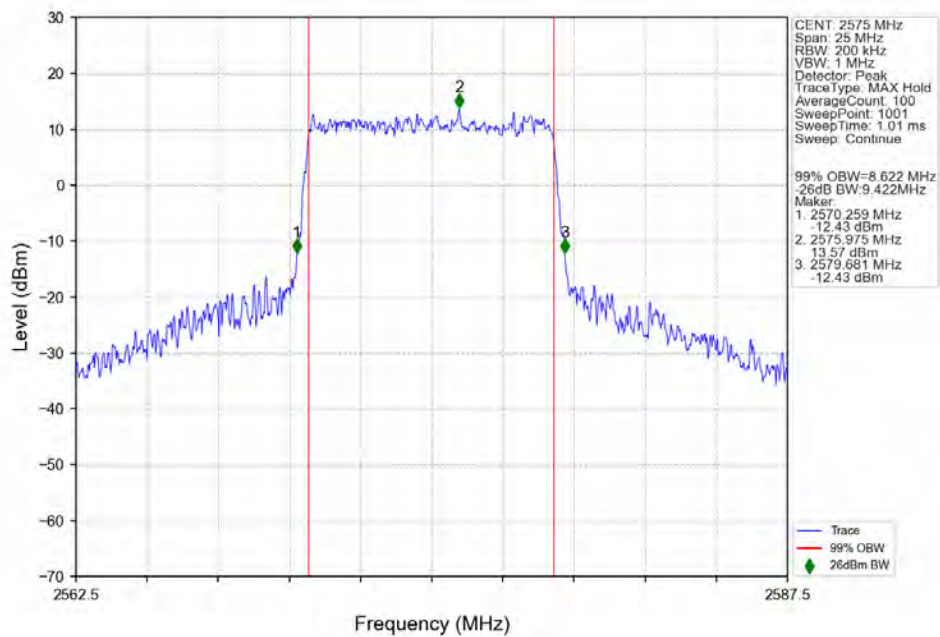
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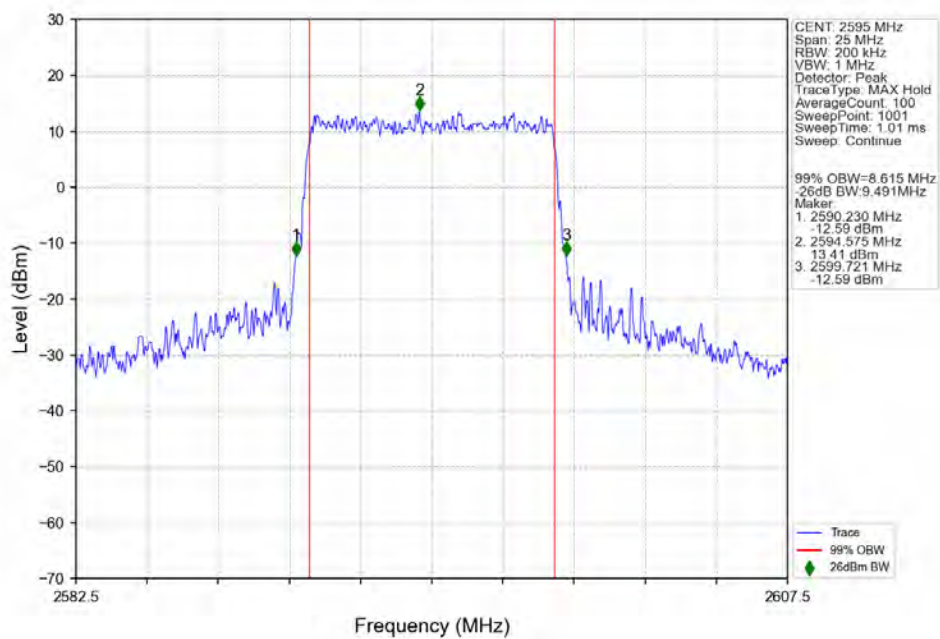
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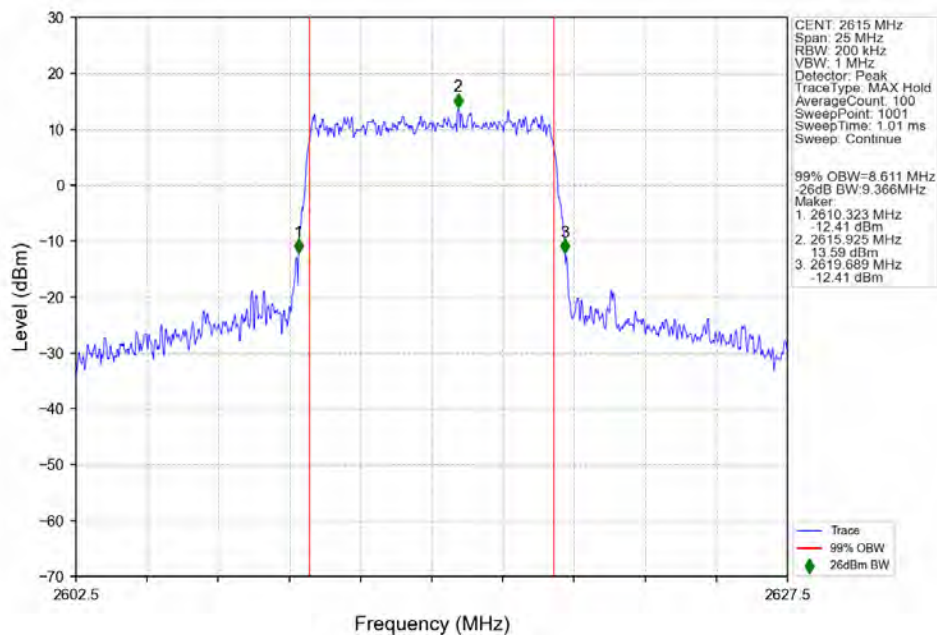
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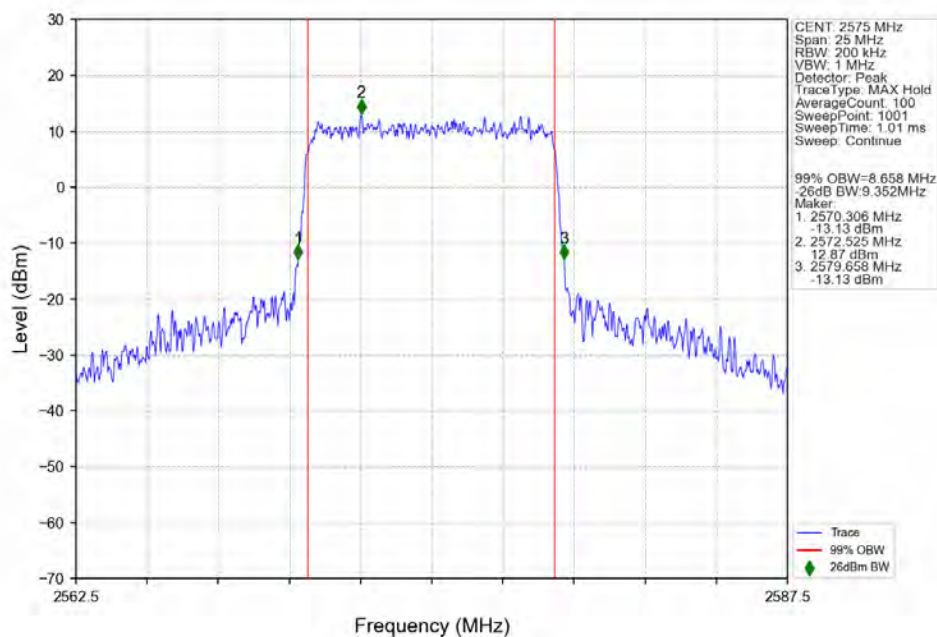
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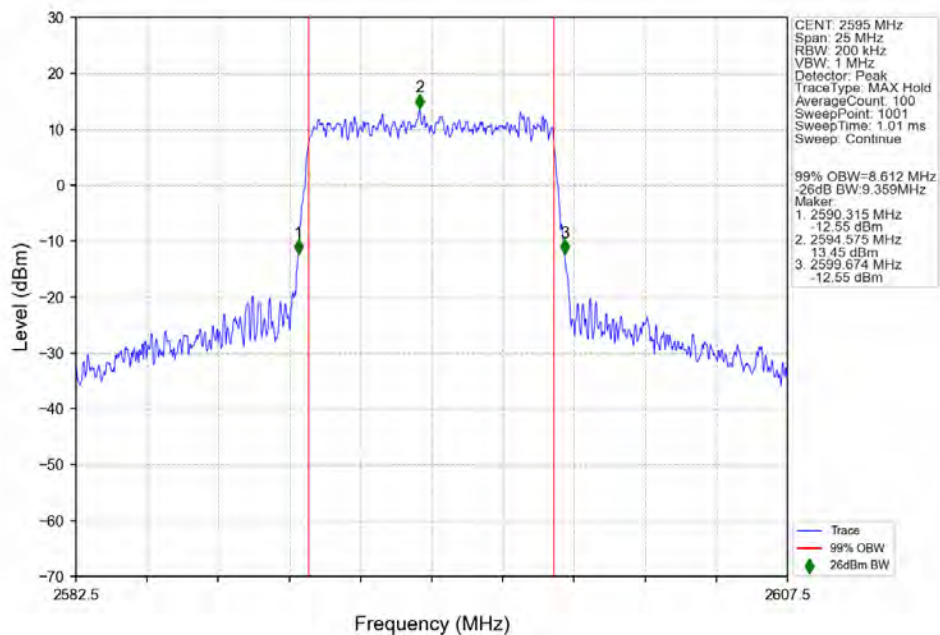
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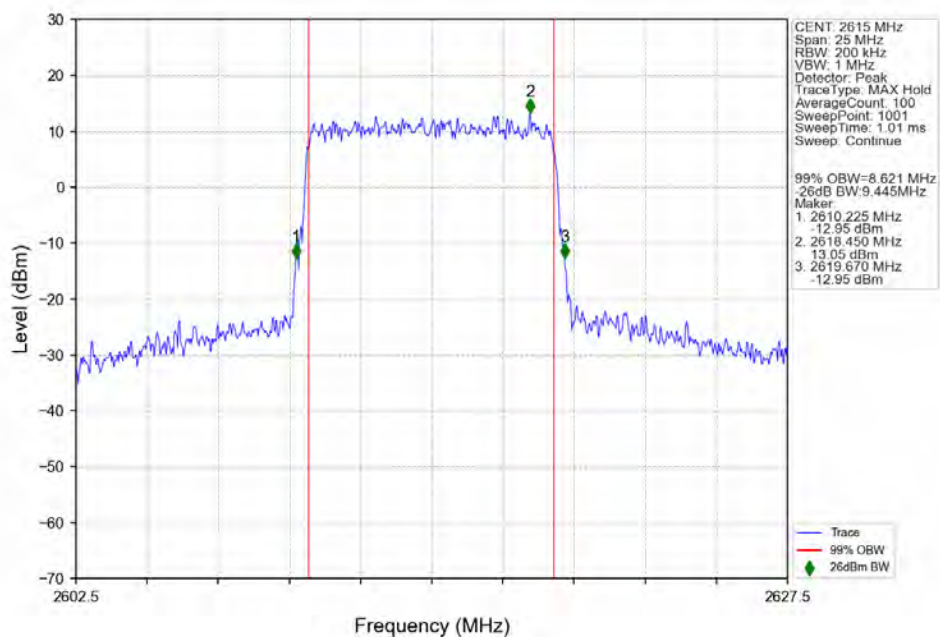
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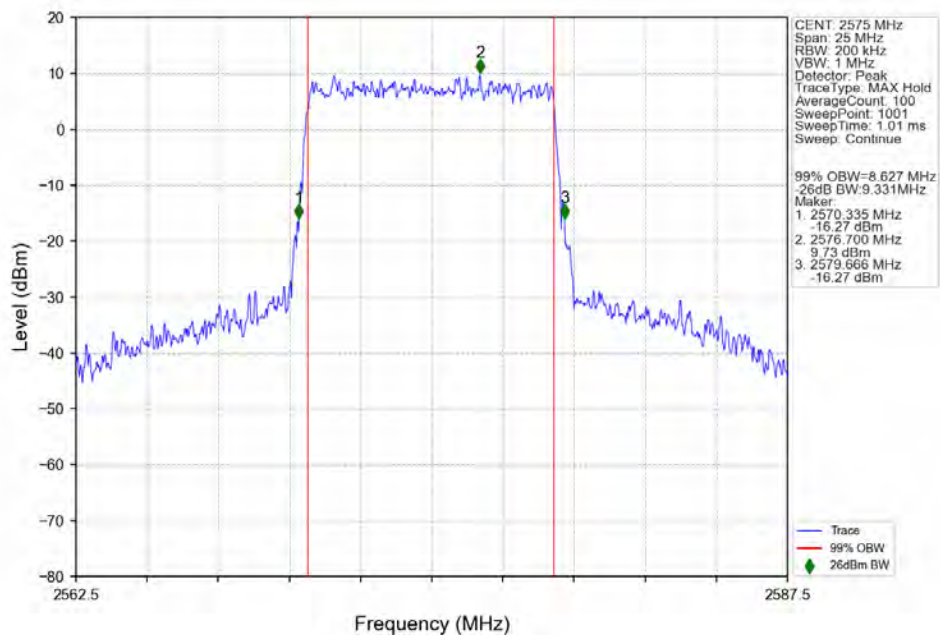
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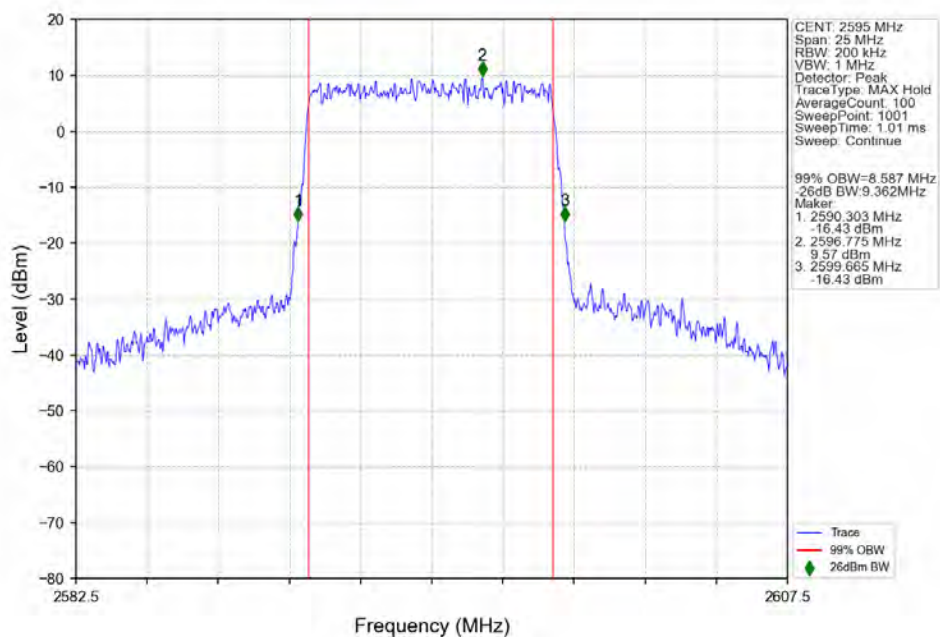
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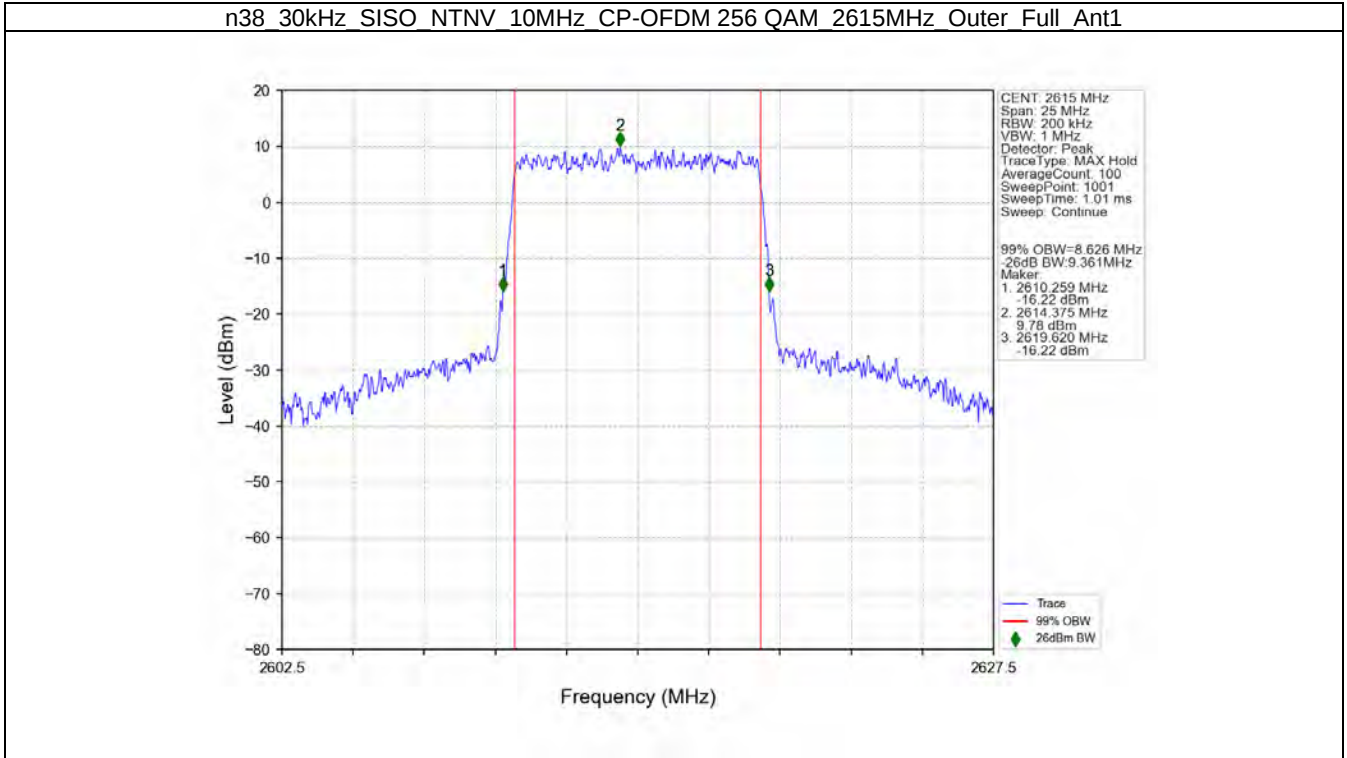


n38 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 2575MHz Outer Full Ant1

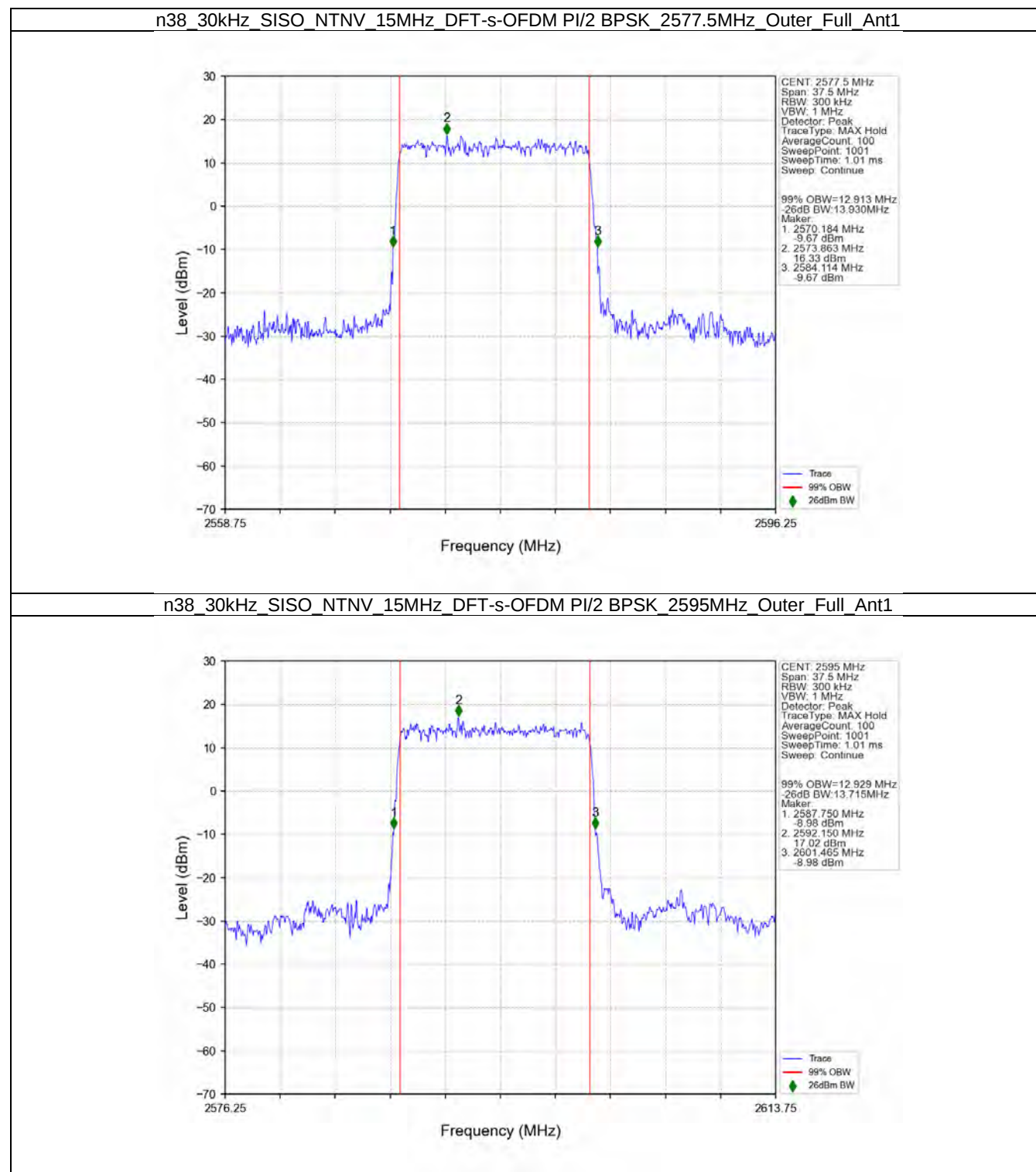


n38 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 2595MHz Outer Full Ant1

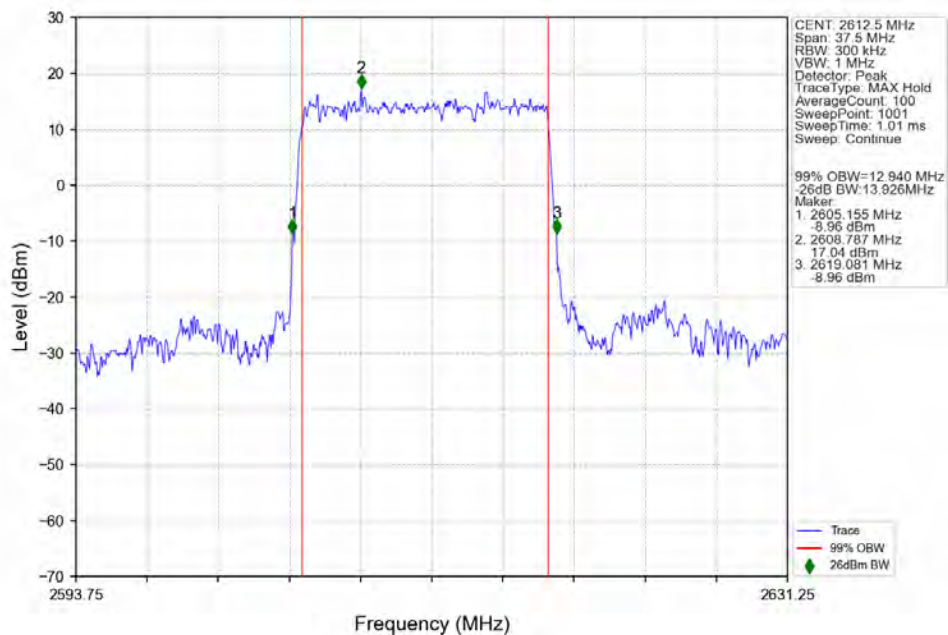




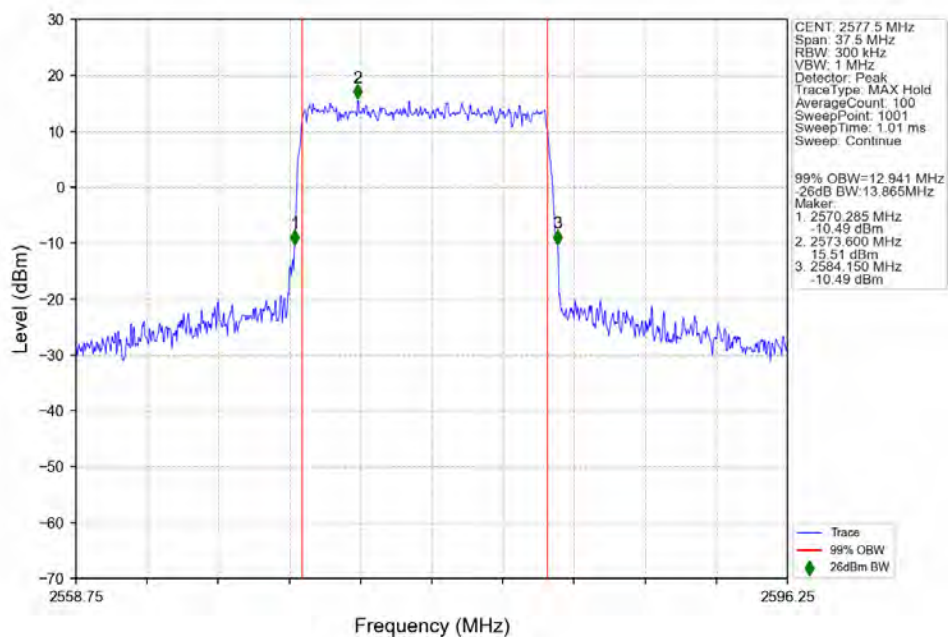
## 3.2.2 30k\_SISO\_15MHz\_NTNV



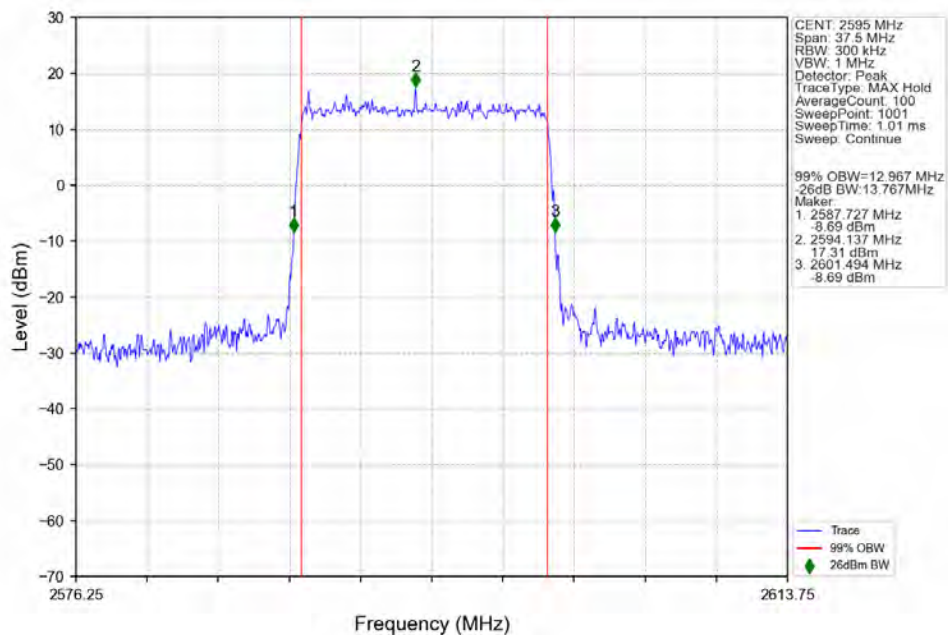
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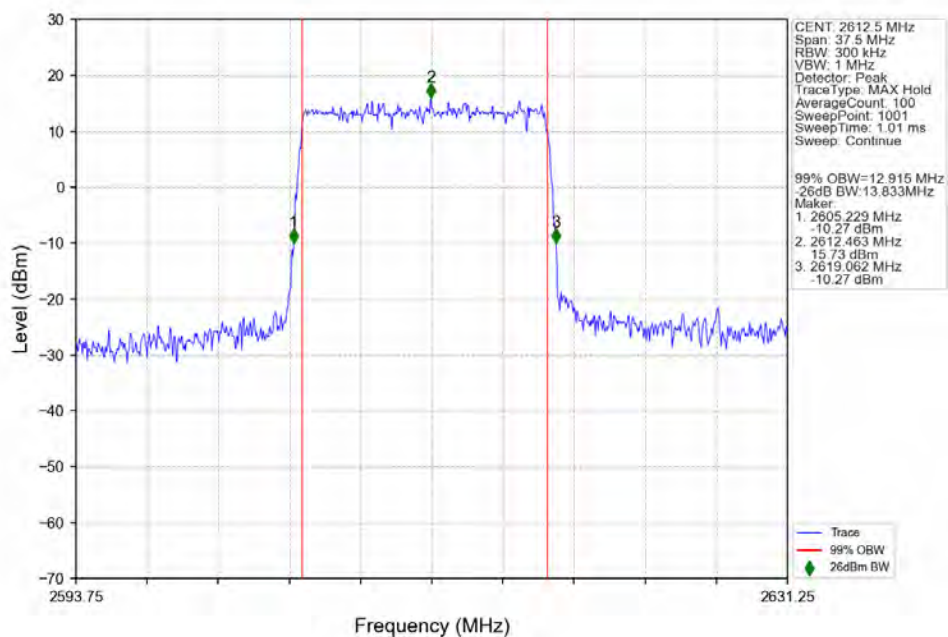
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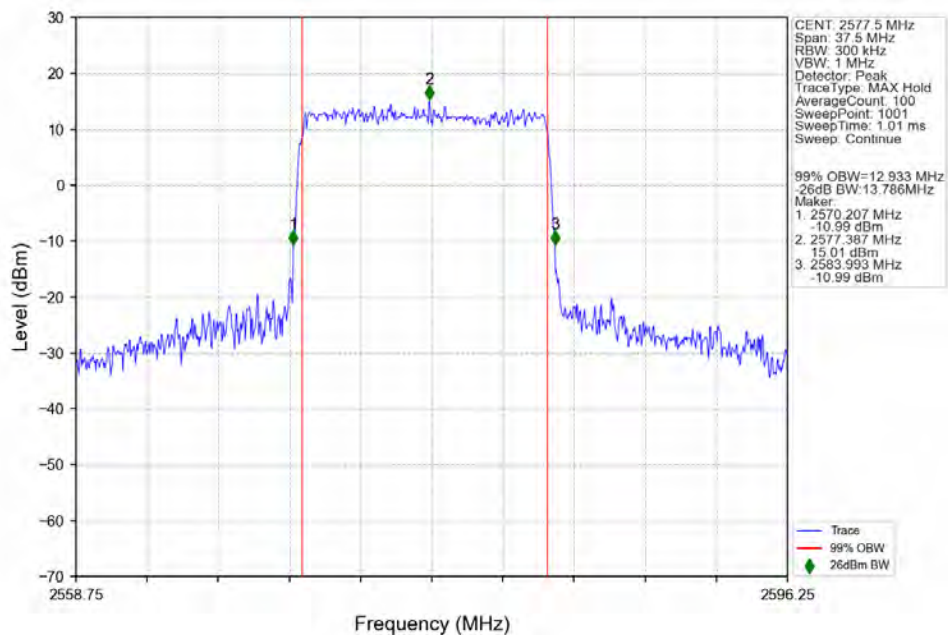
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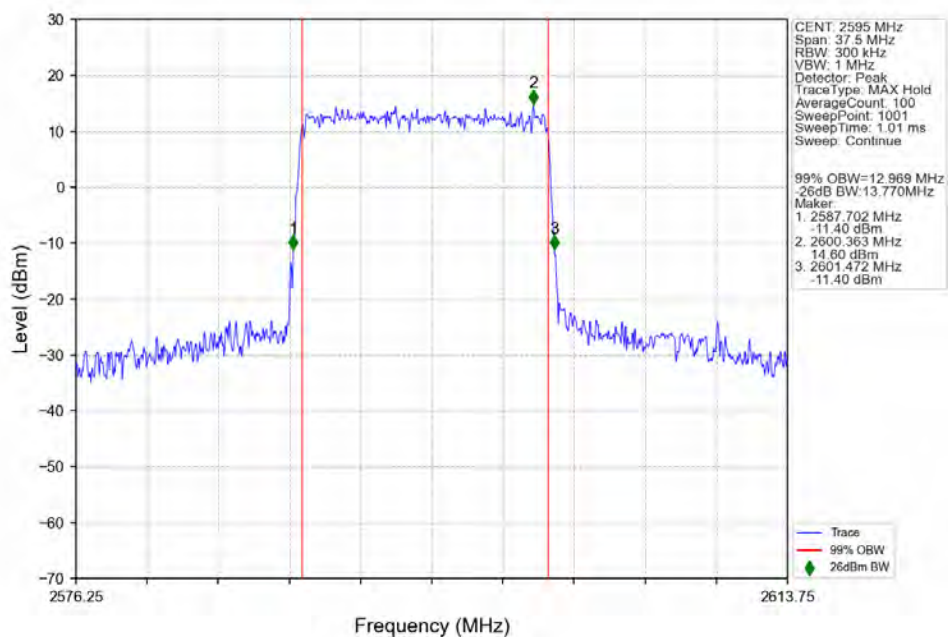
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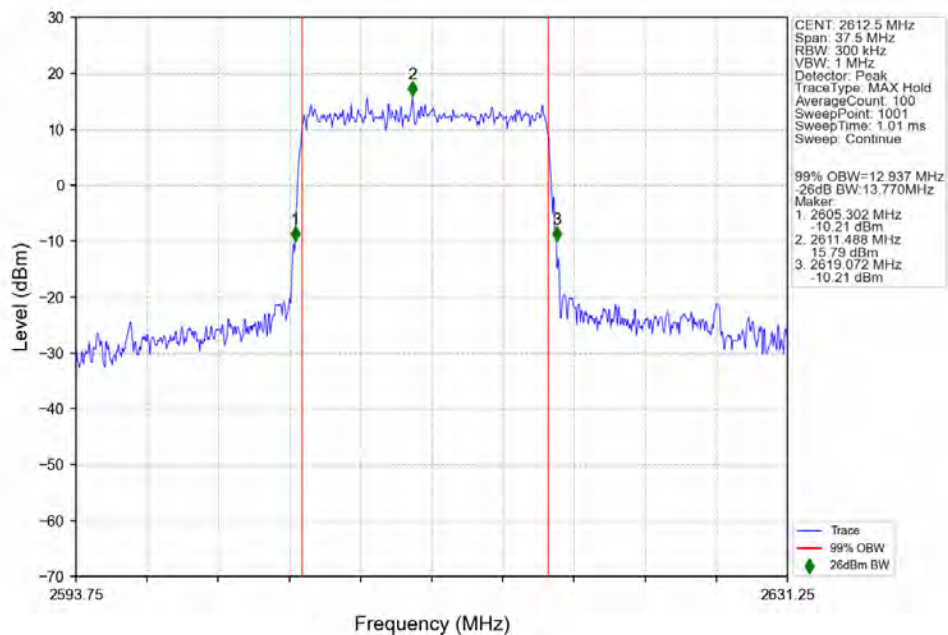
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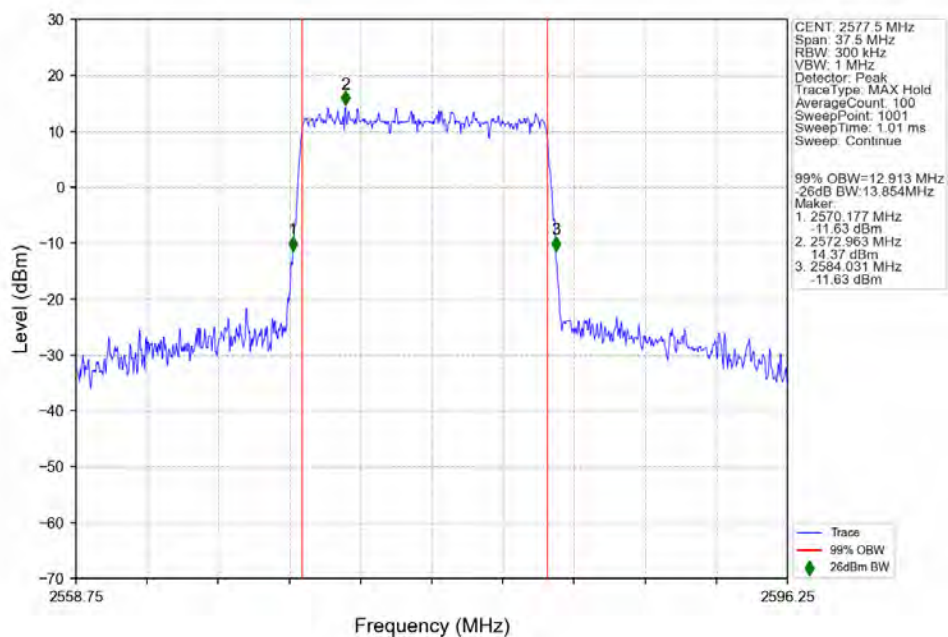
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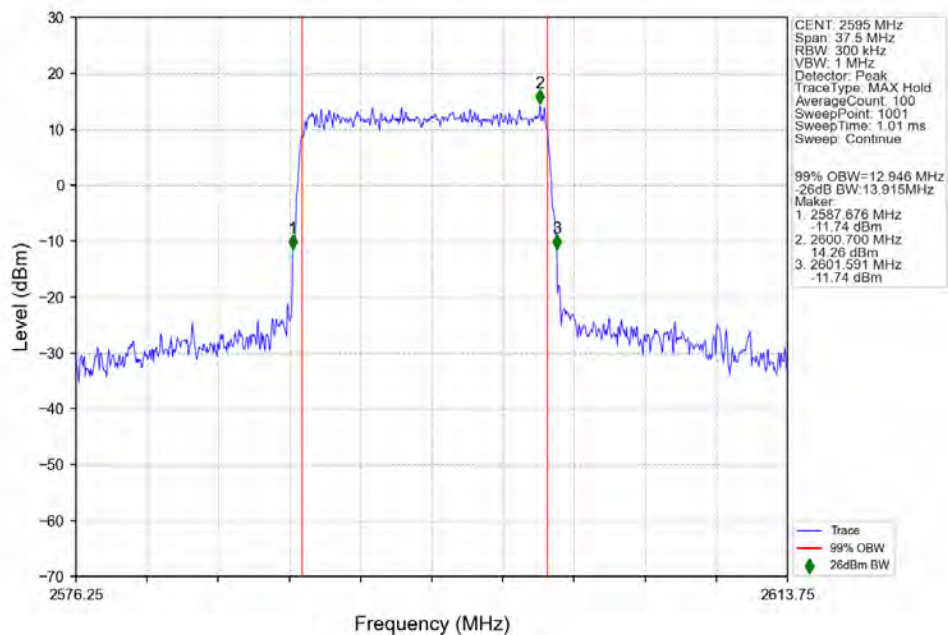
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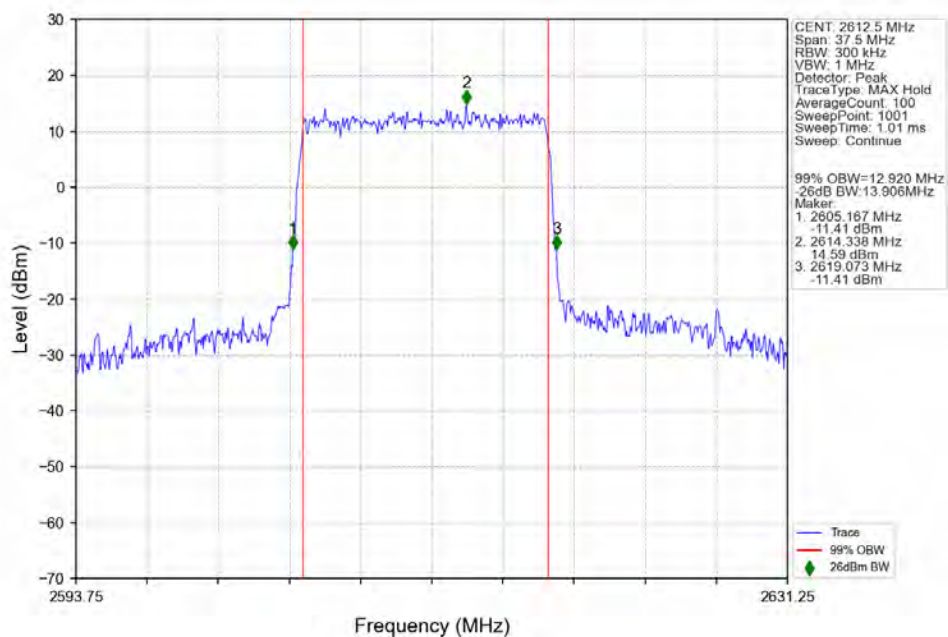
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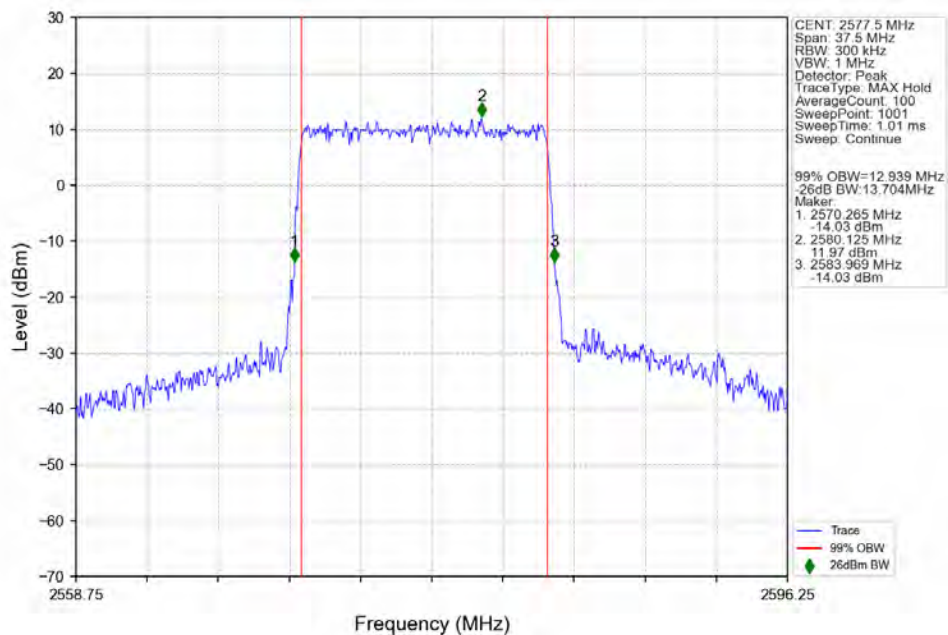
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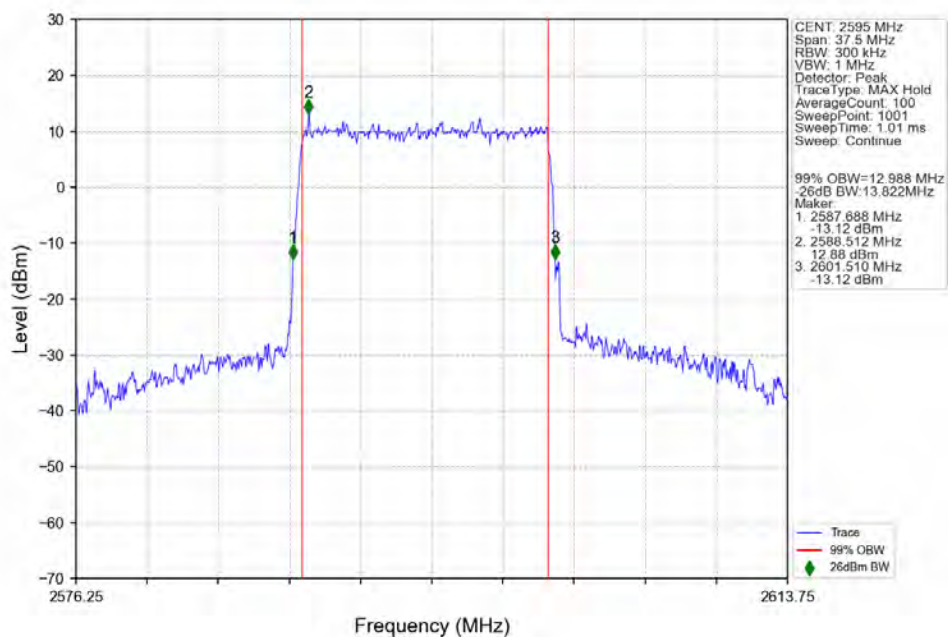
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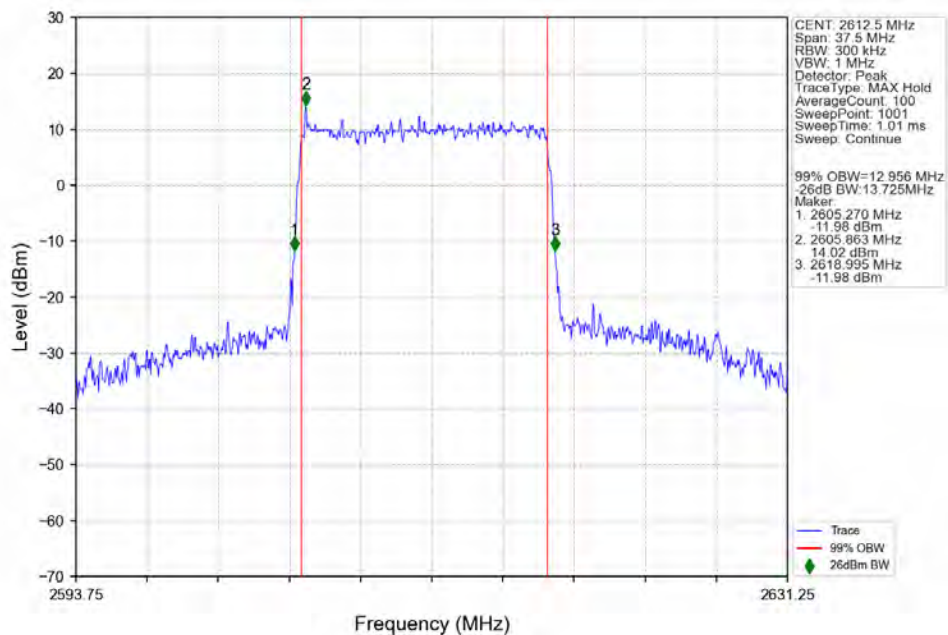
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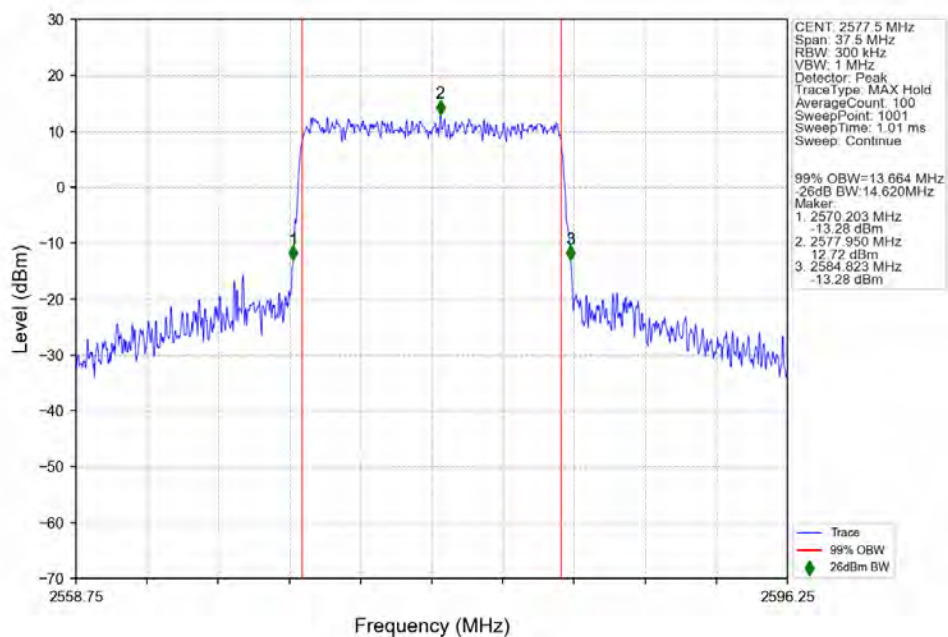
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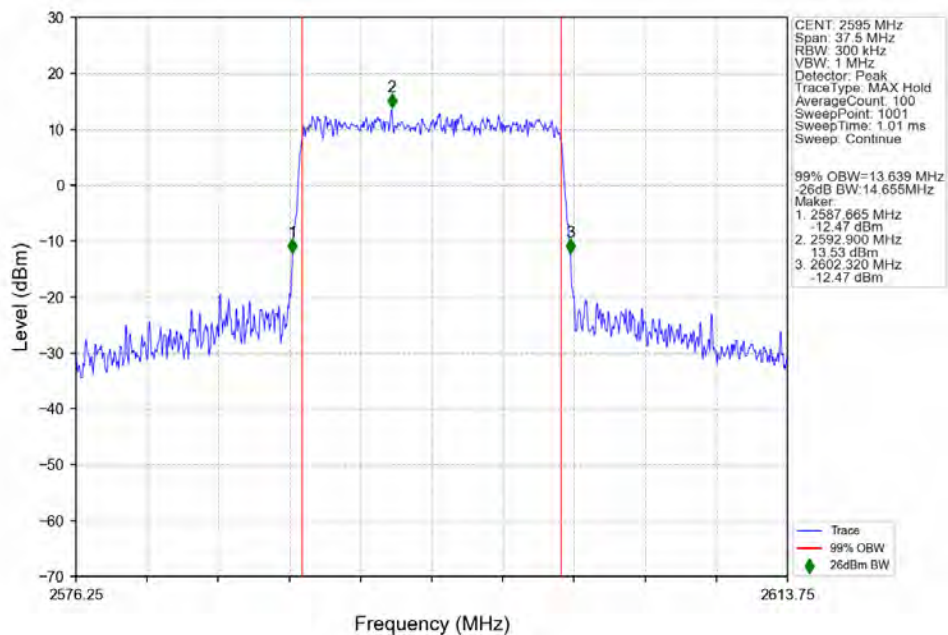
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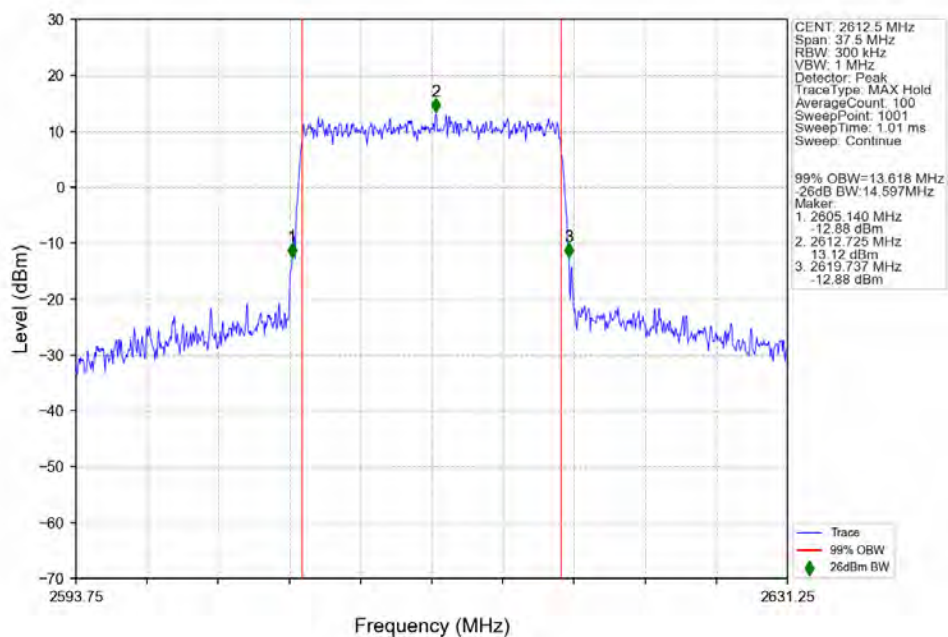
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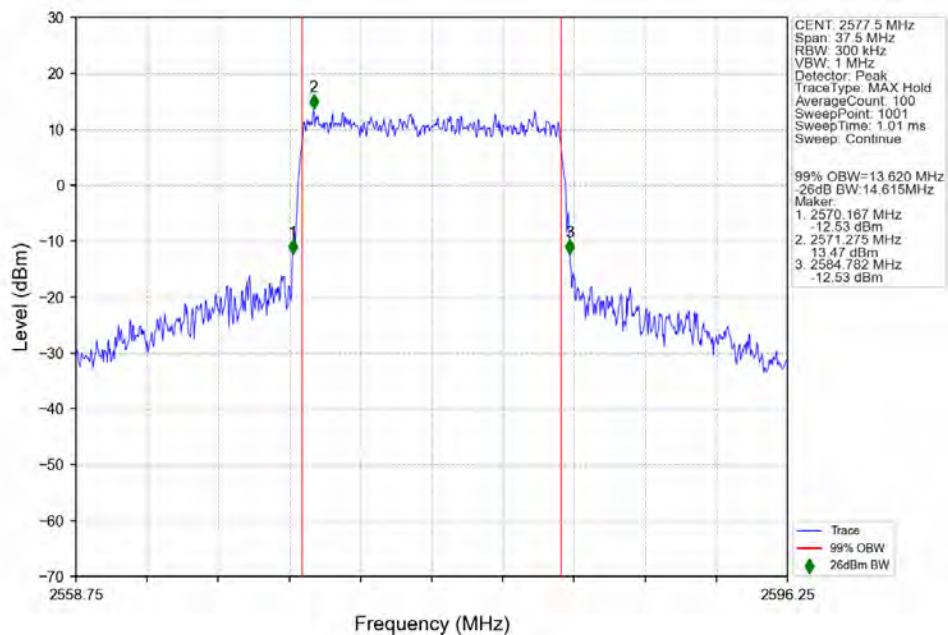
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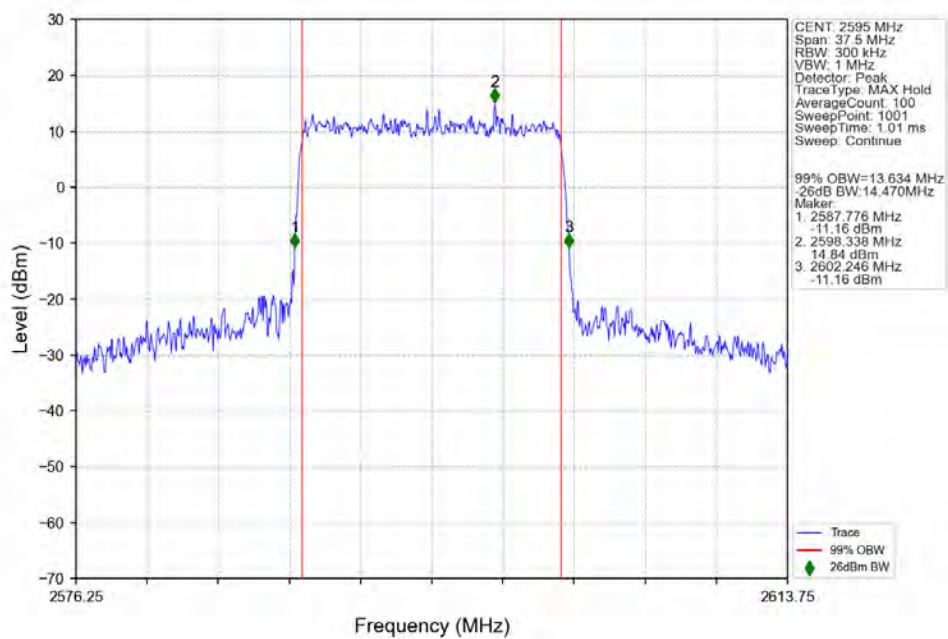
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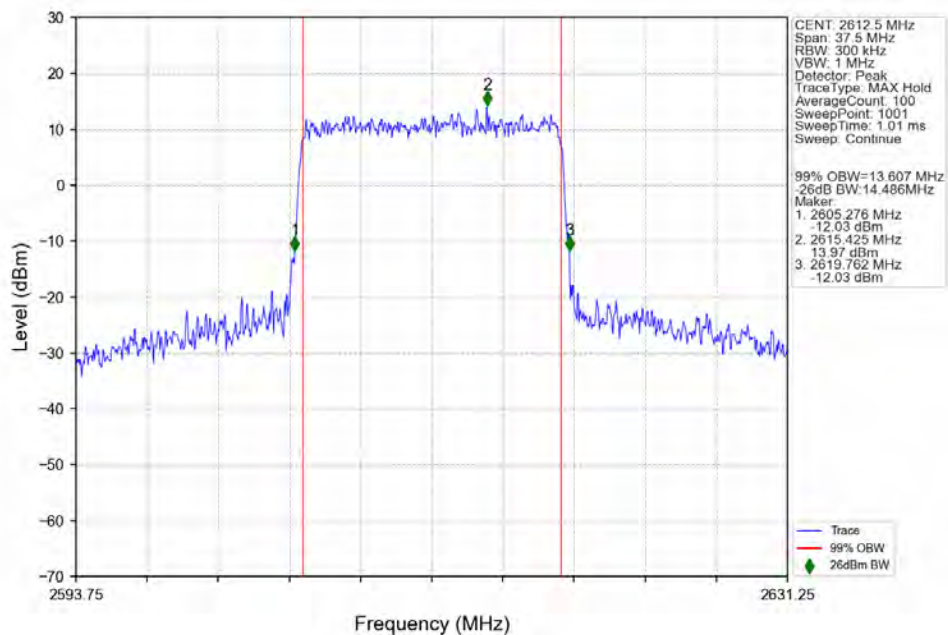
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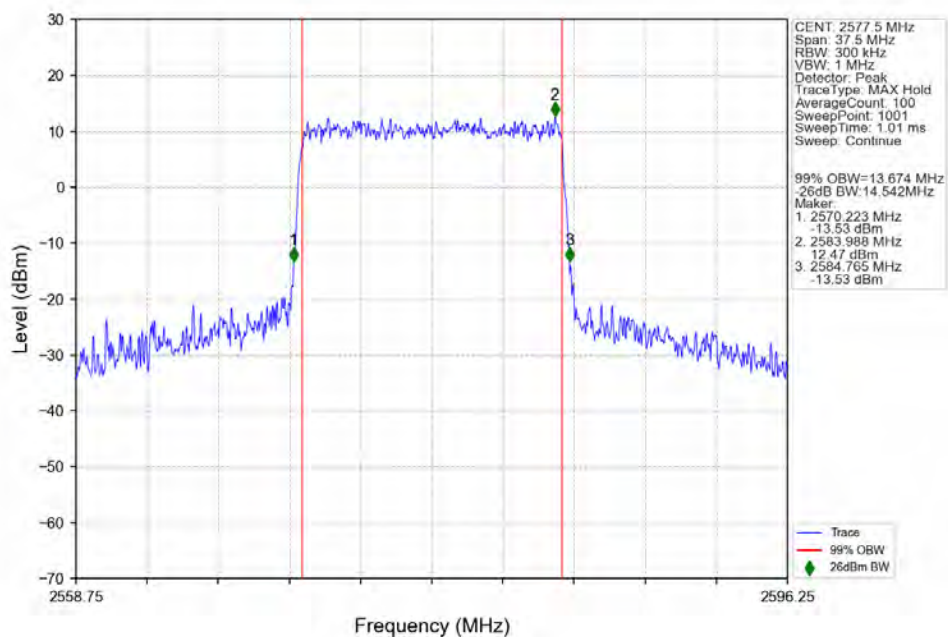
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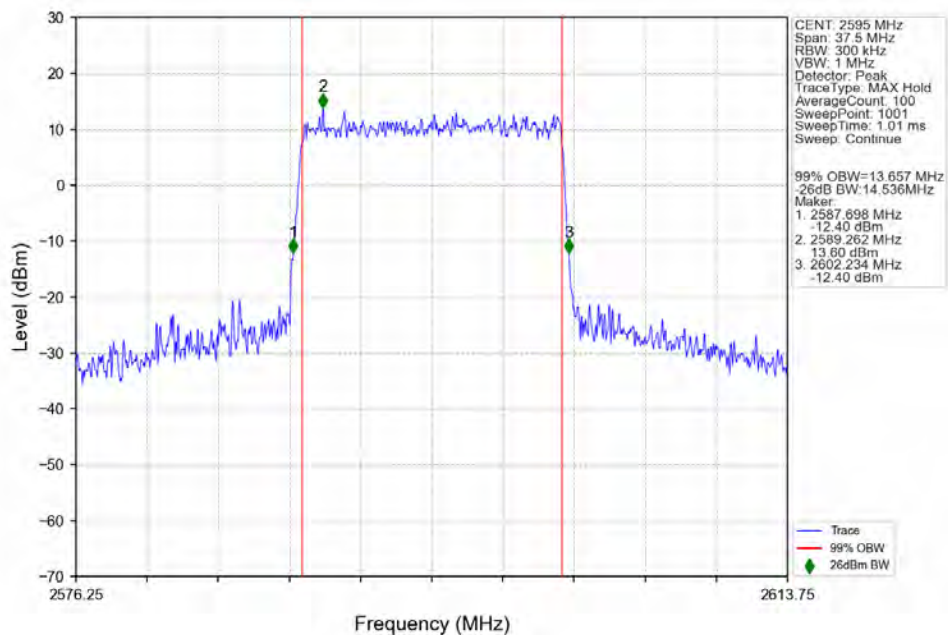
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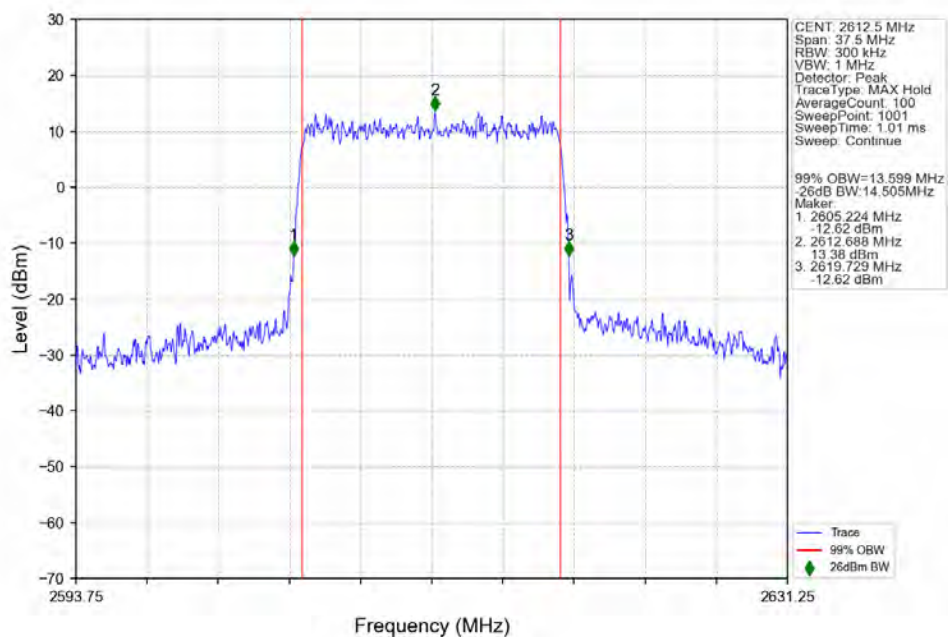
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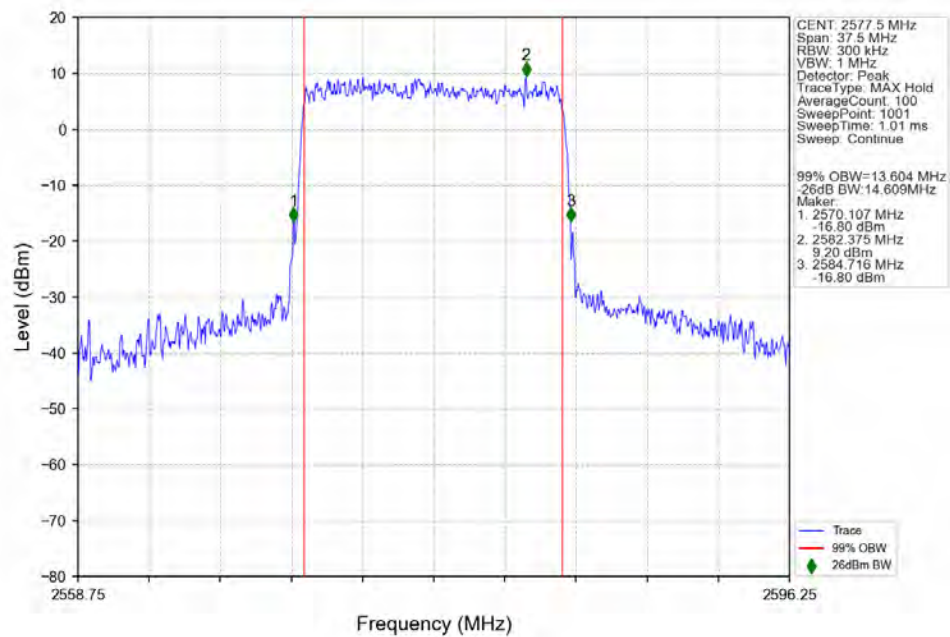
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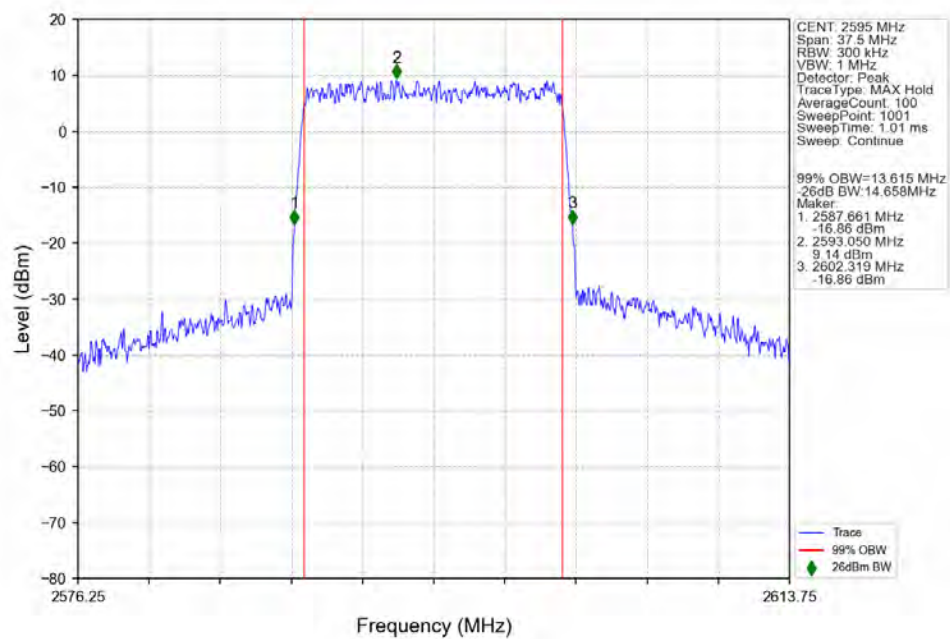
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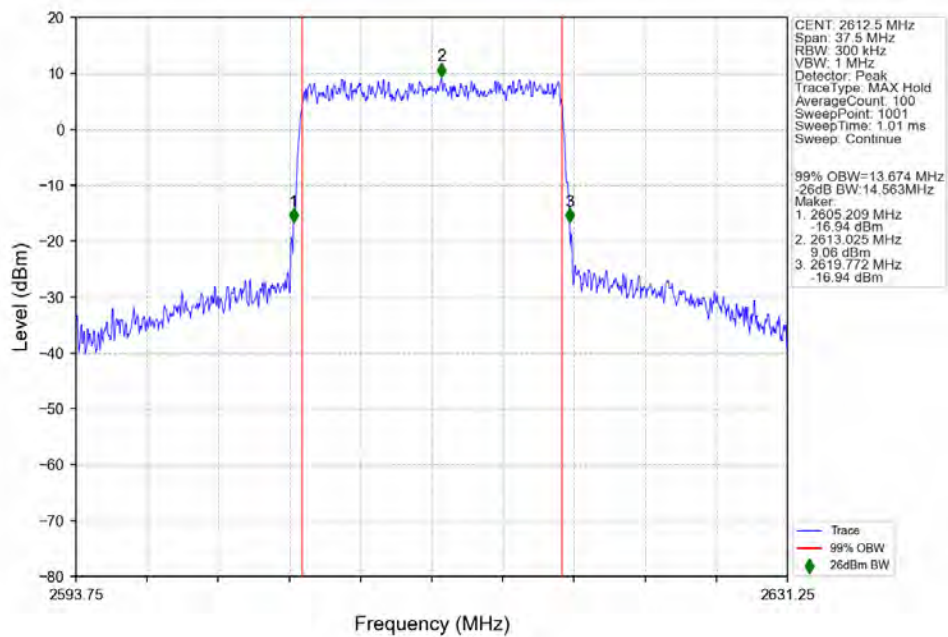
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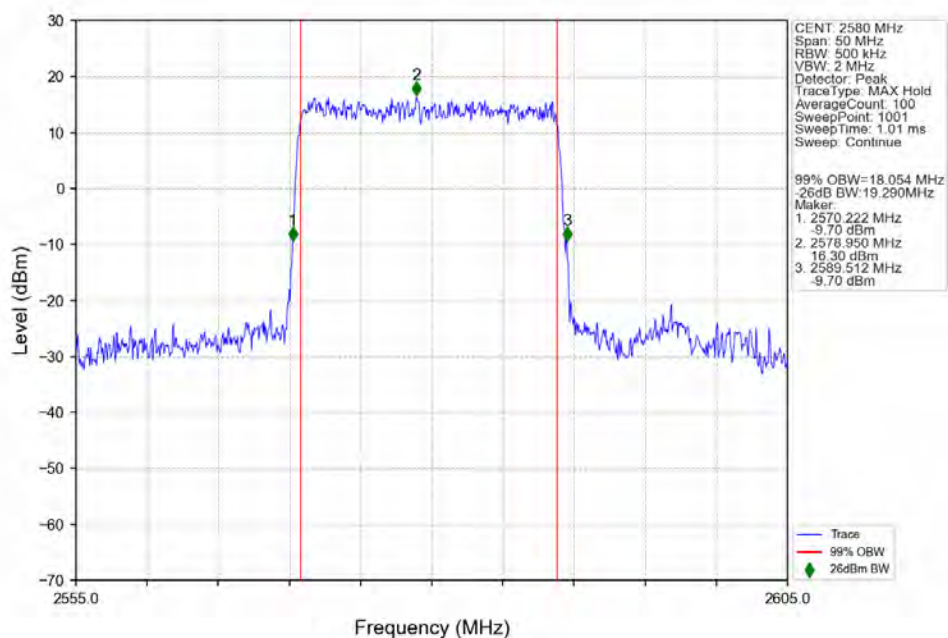


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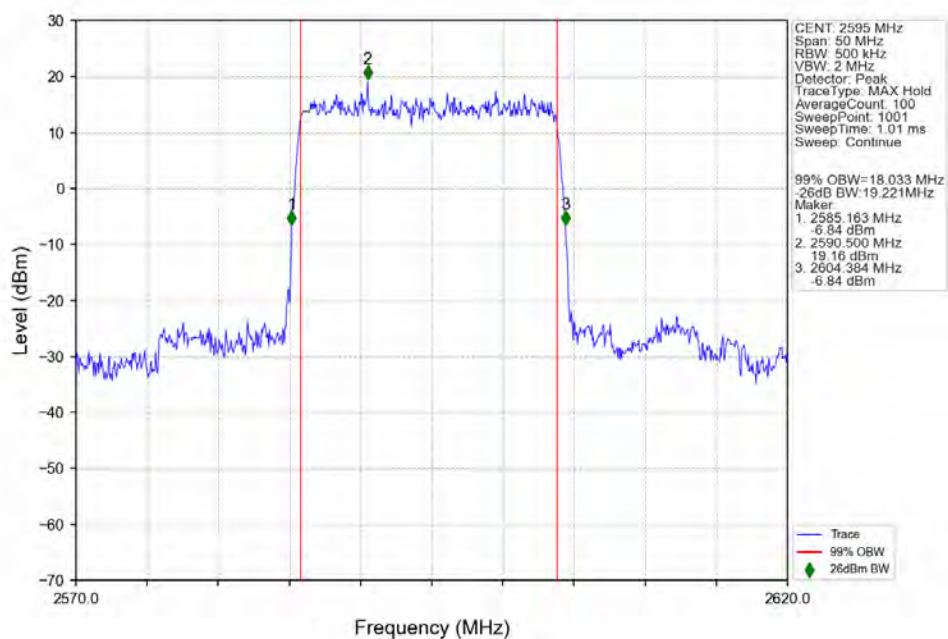


## 3.2.3 30k\_SISO\_20MHz\_NTNV

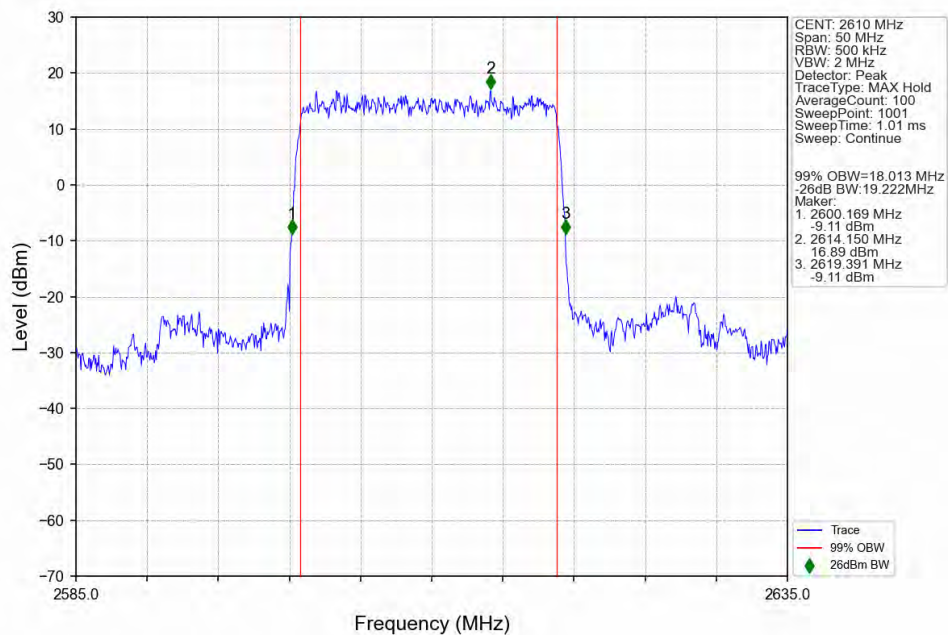
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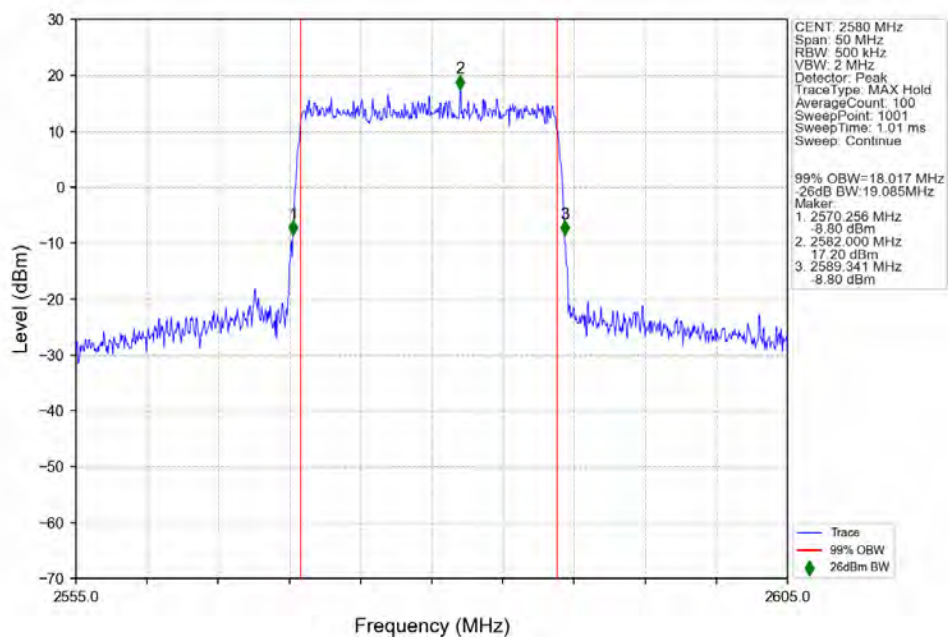
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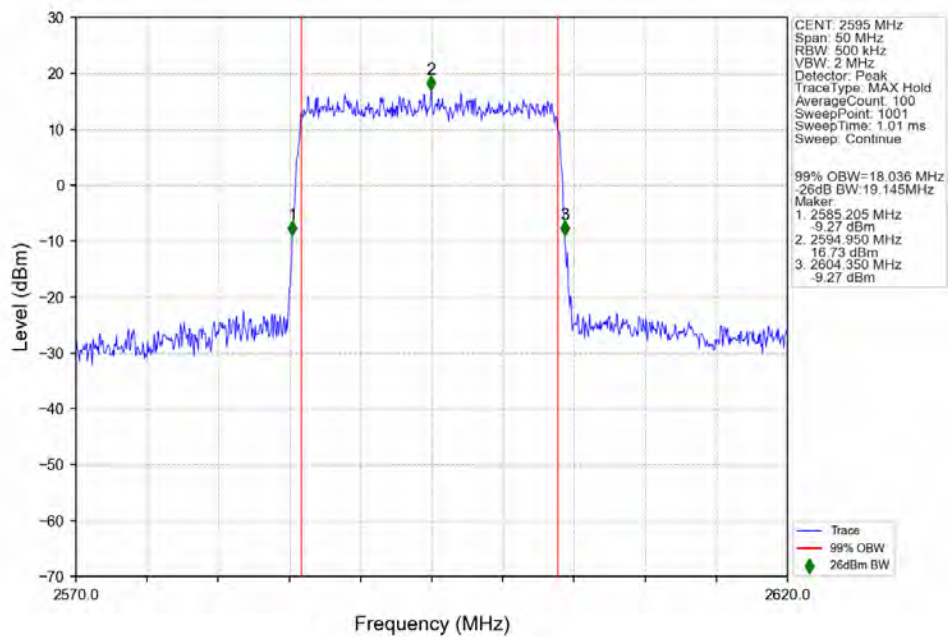
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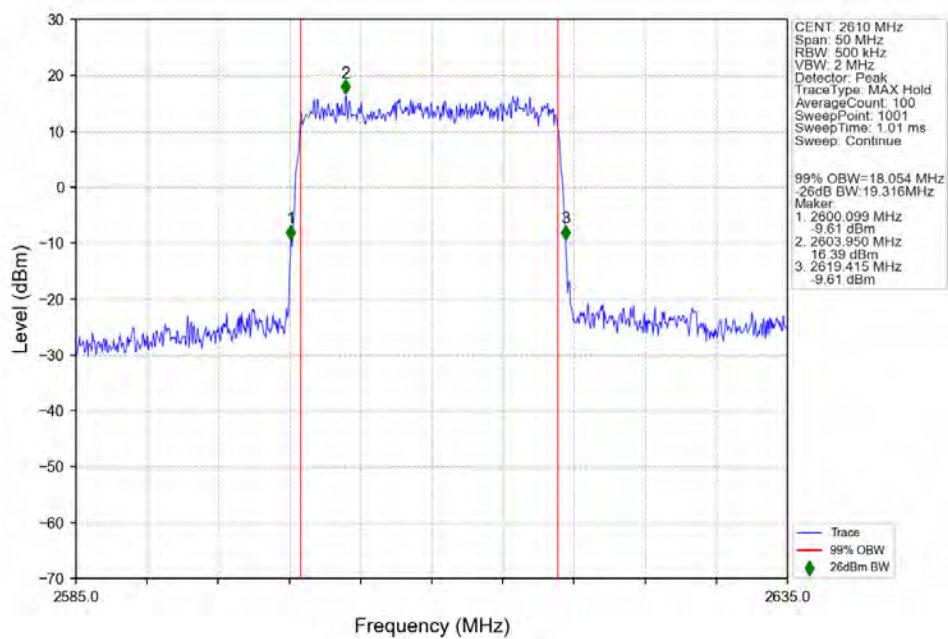
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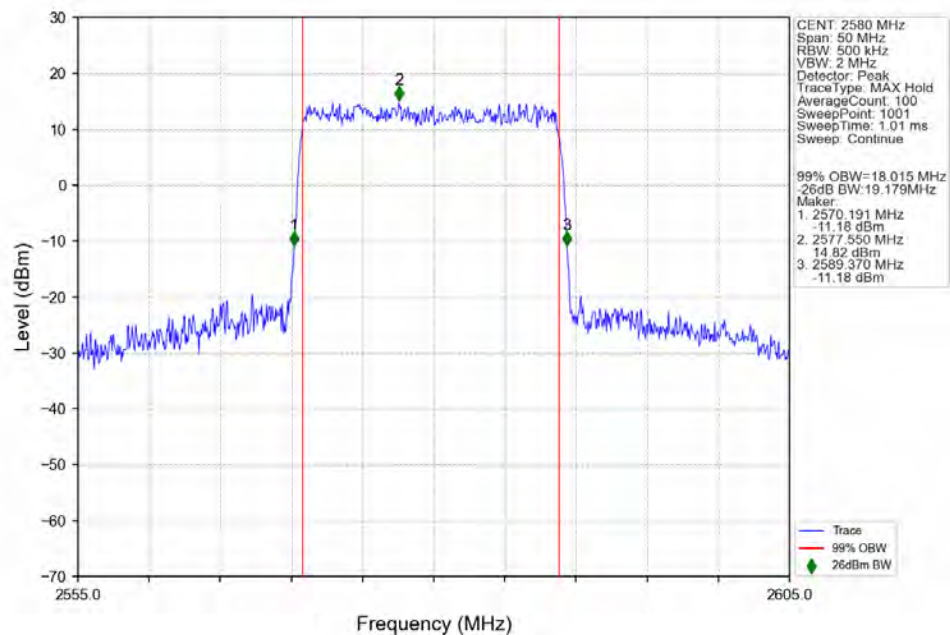
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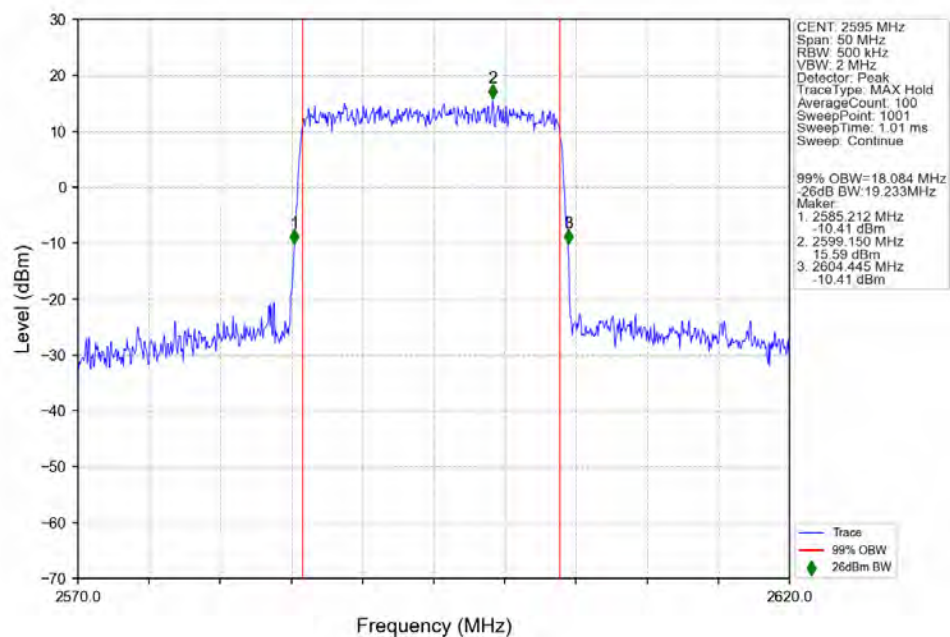
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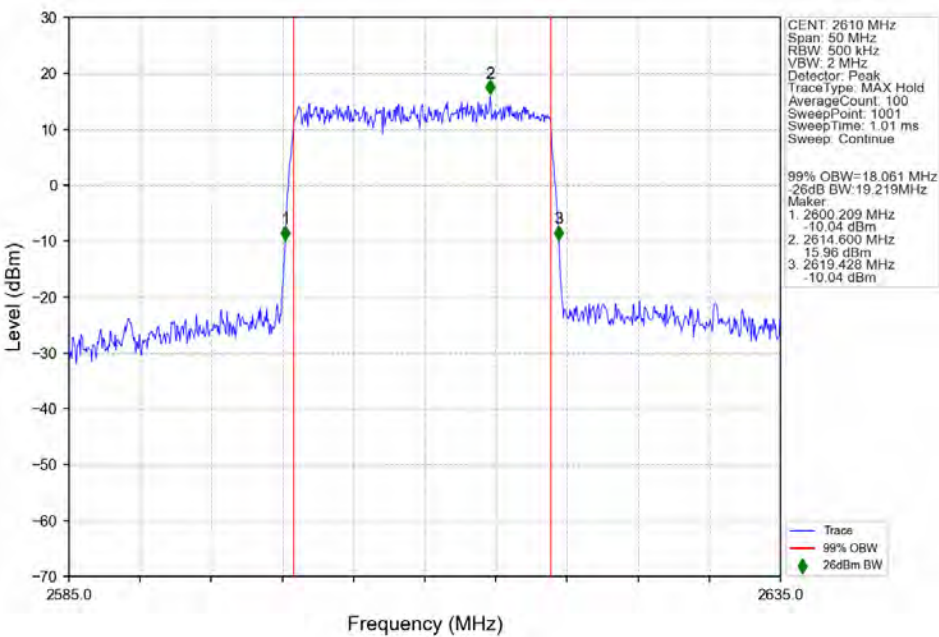
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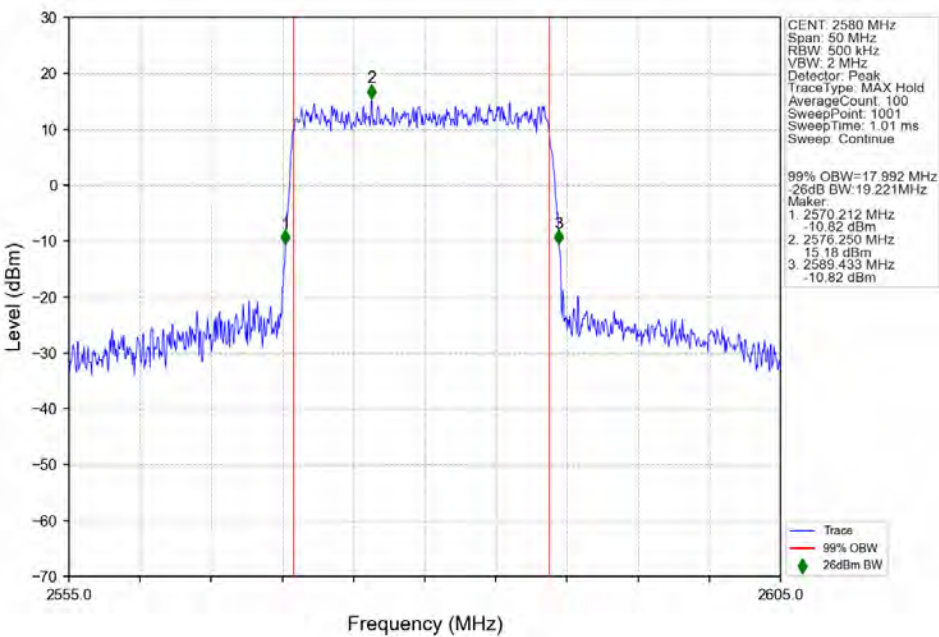
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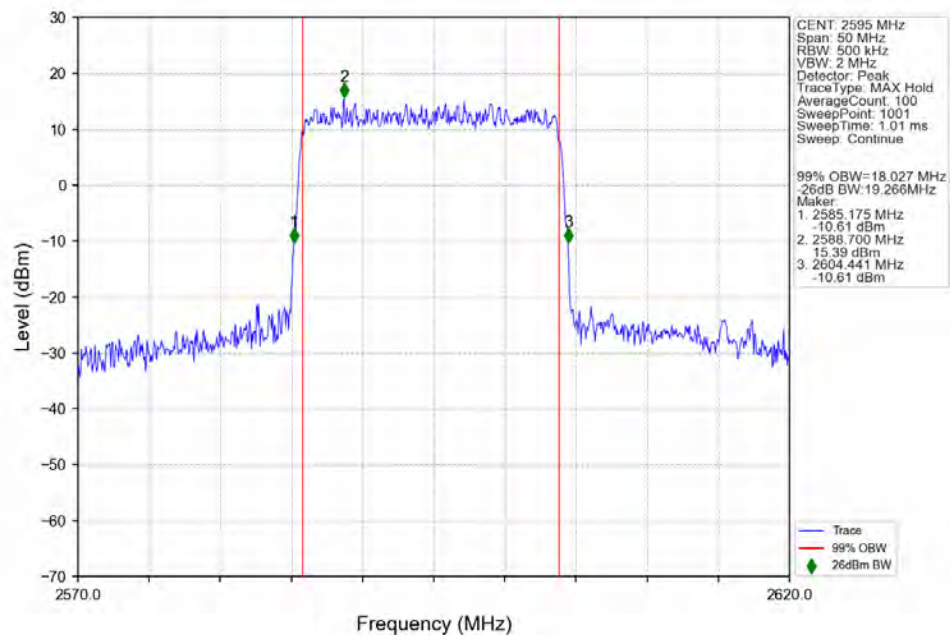
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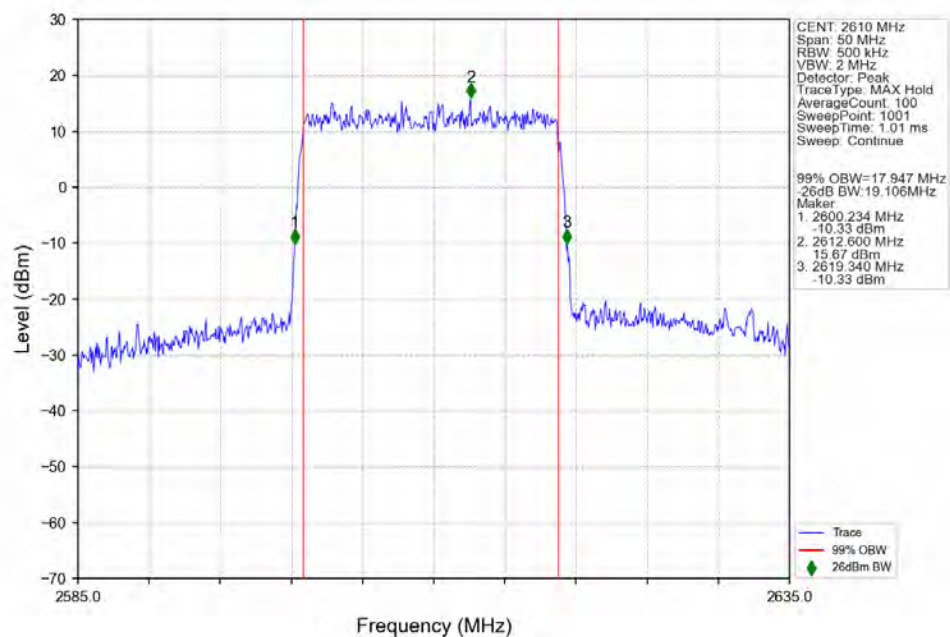
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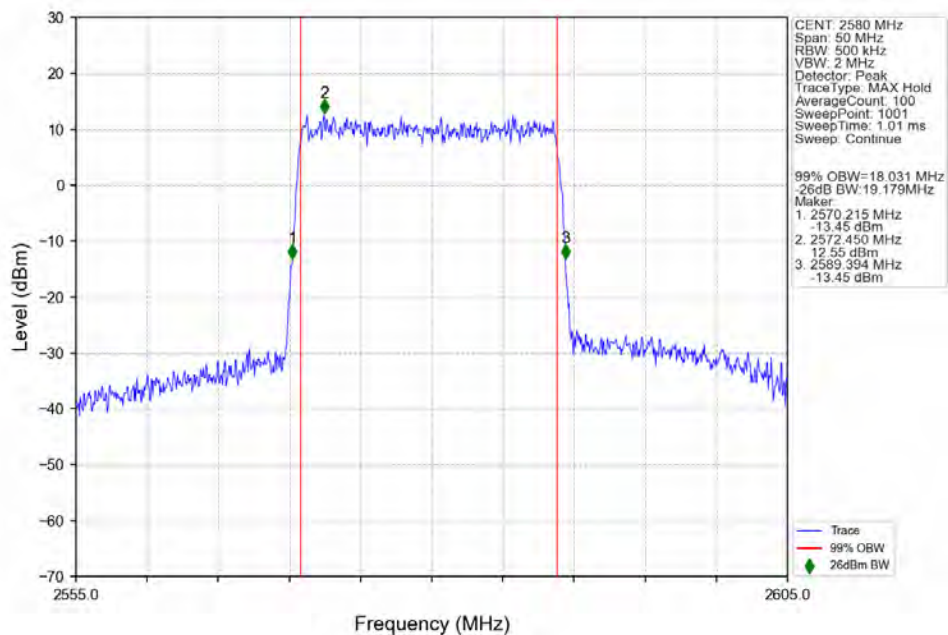
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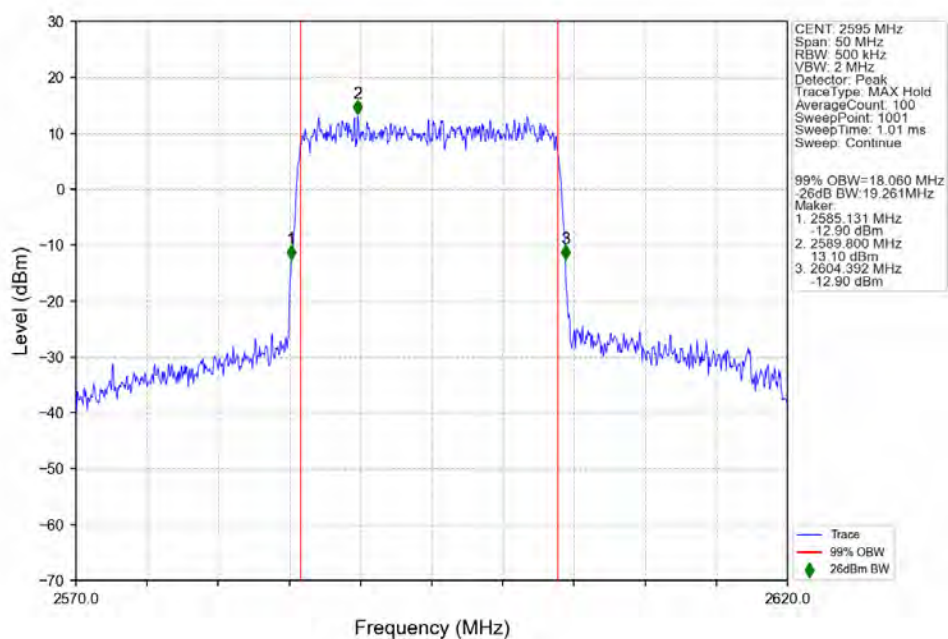
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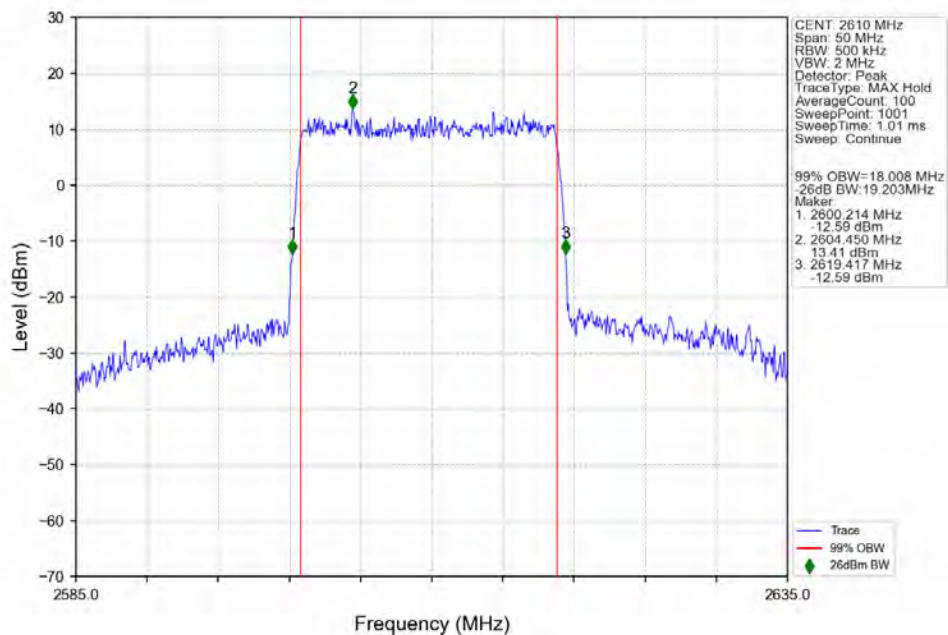
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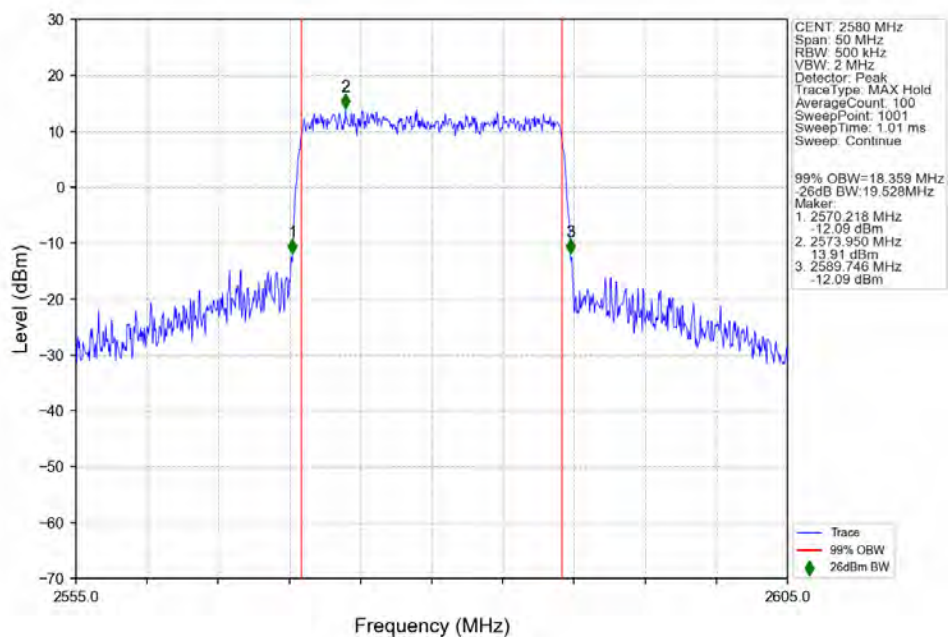
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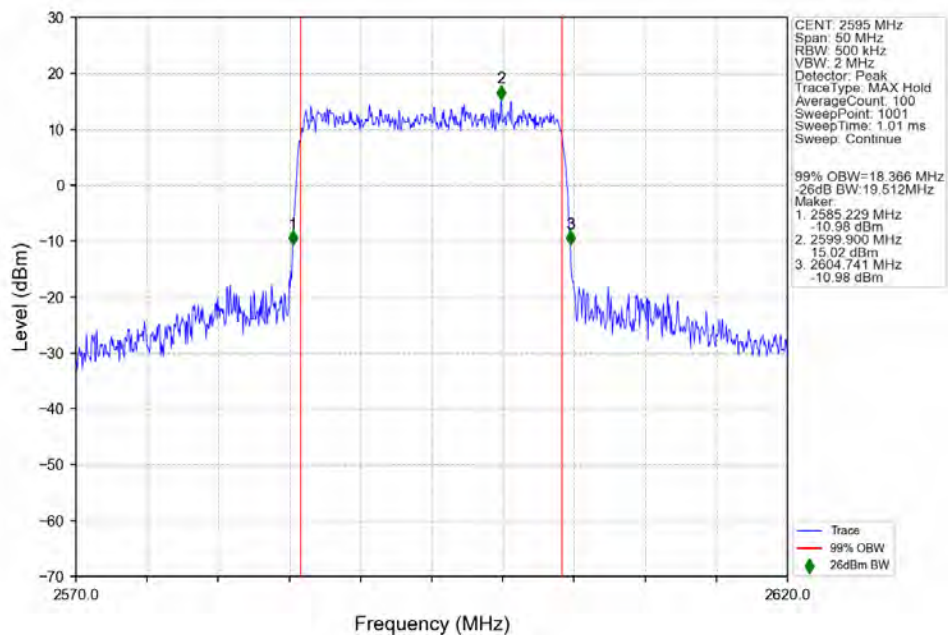
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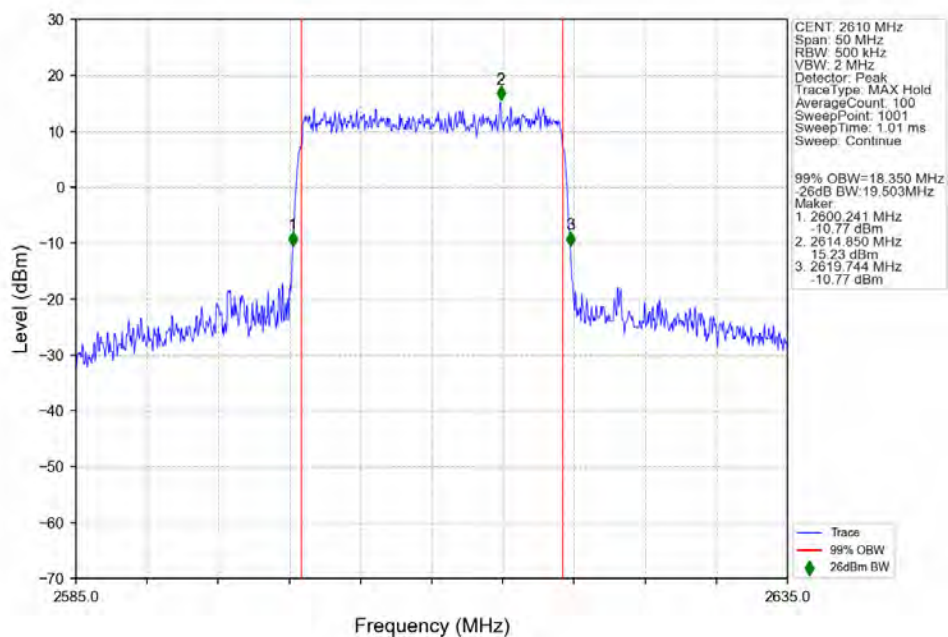
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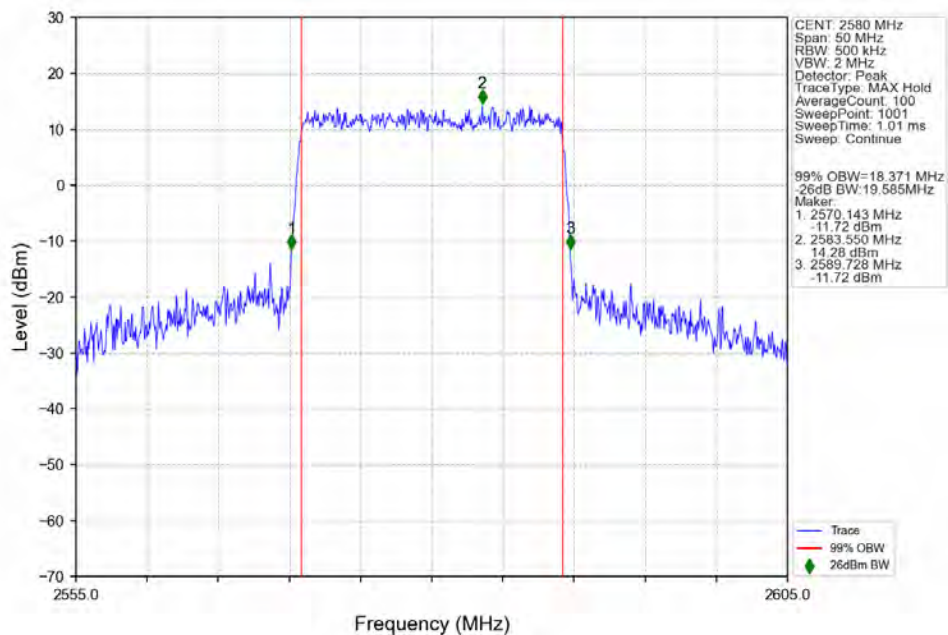
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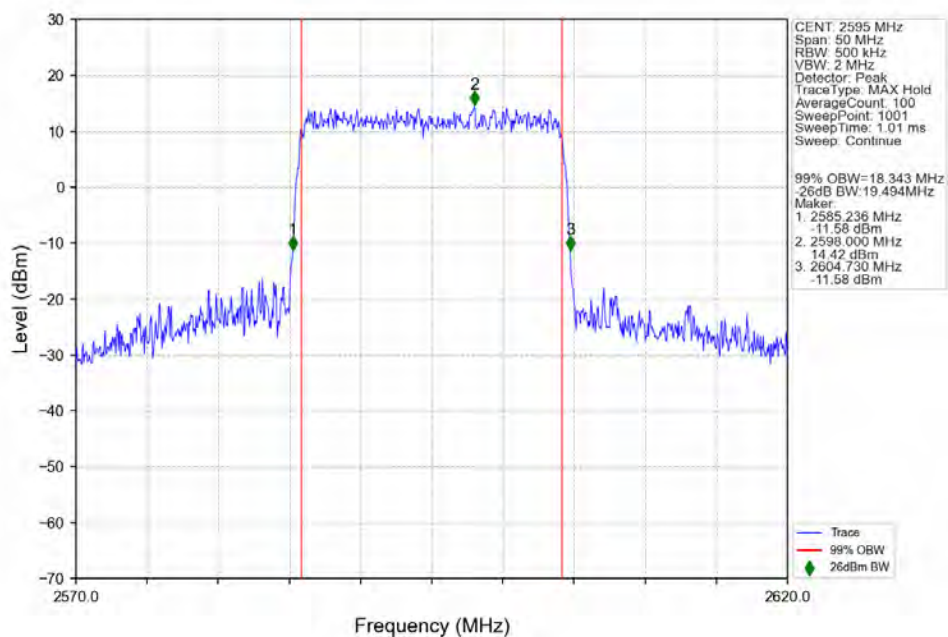
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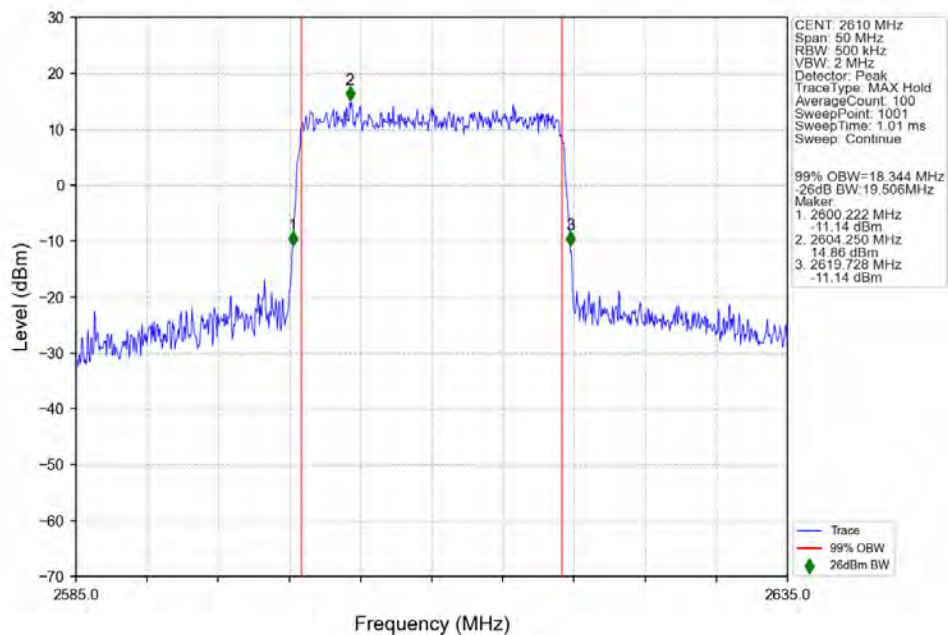
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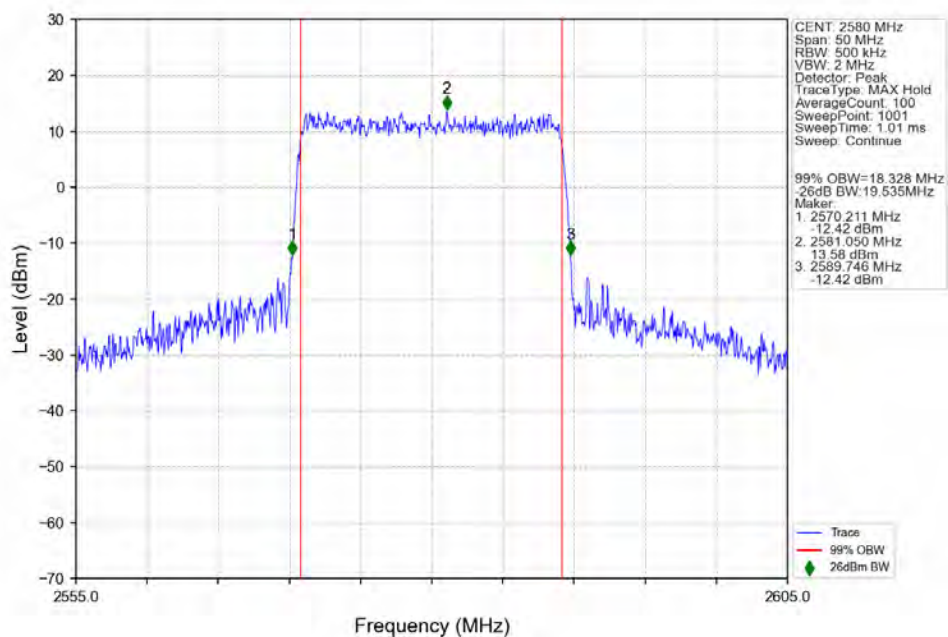
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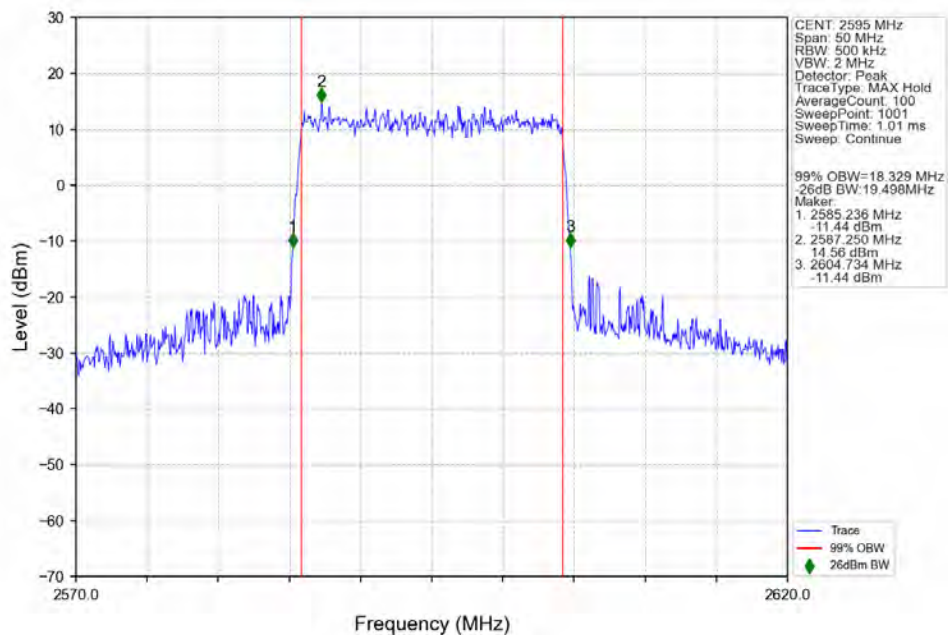
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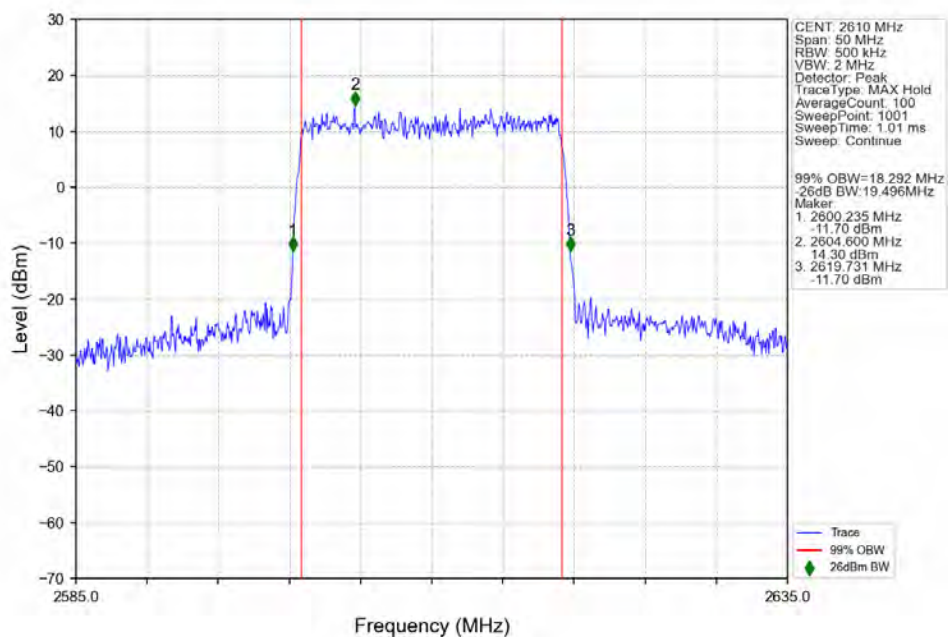
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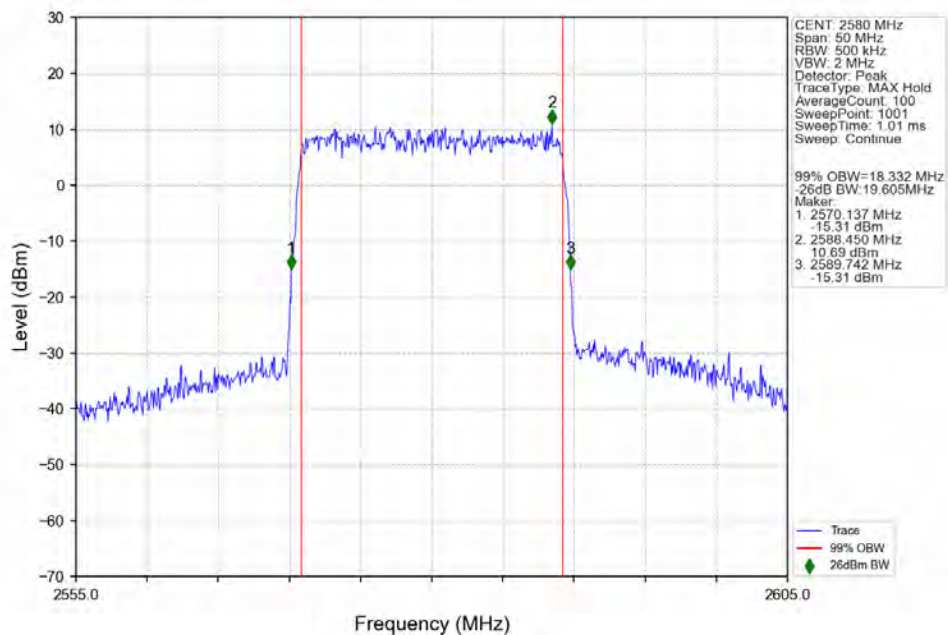
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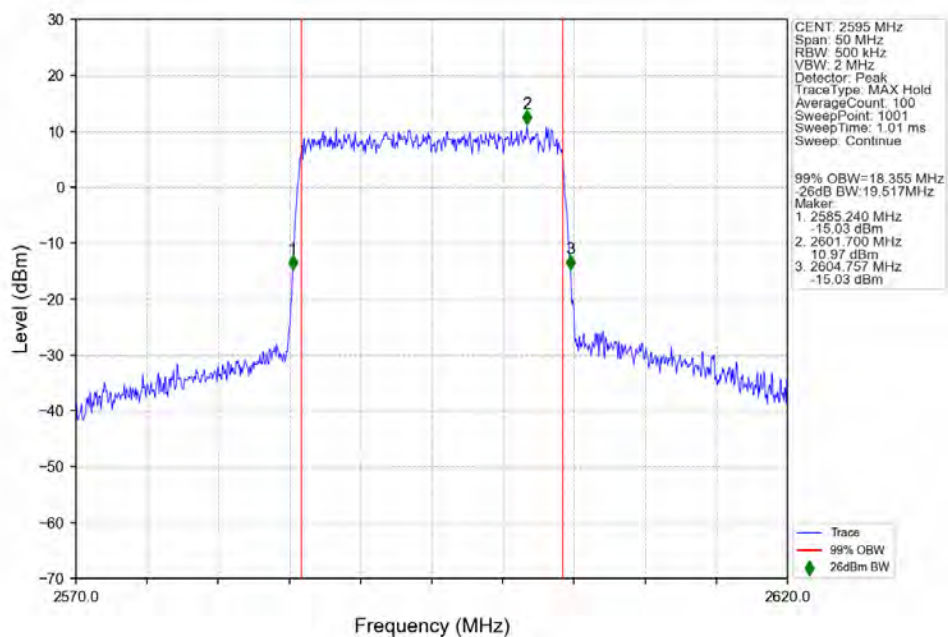
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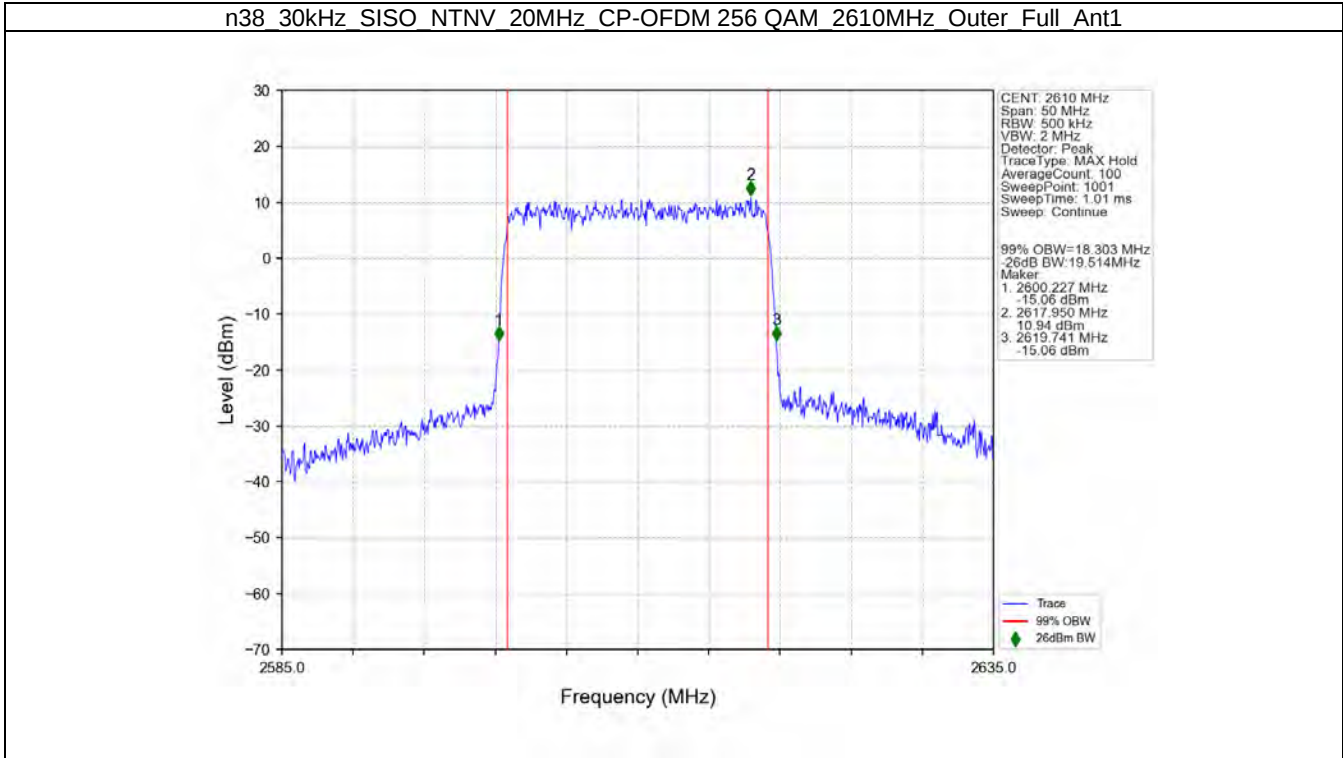


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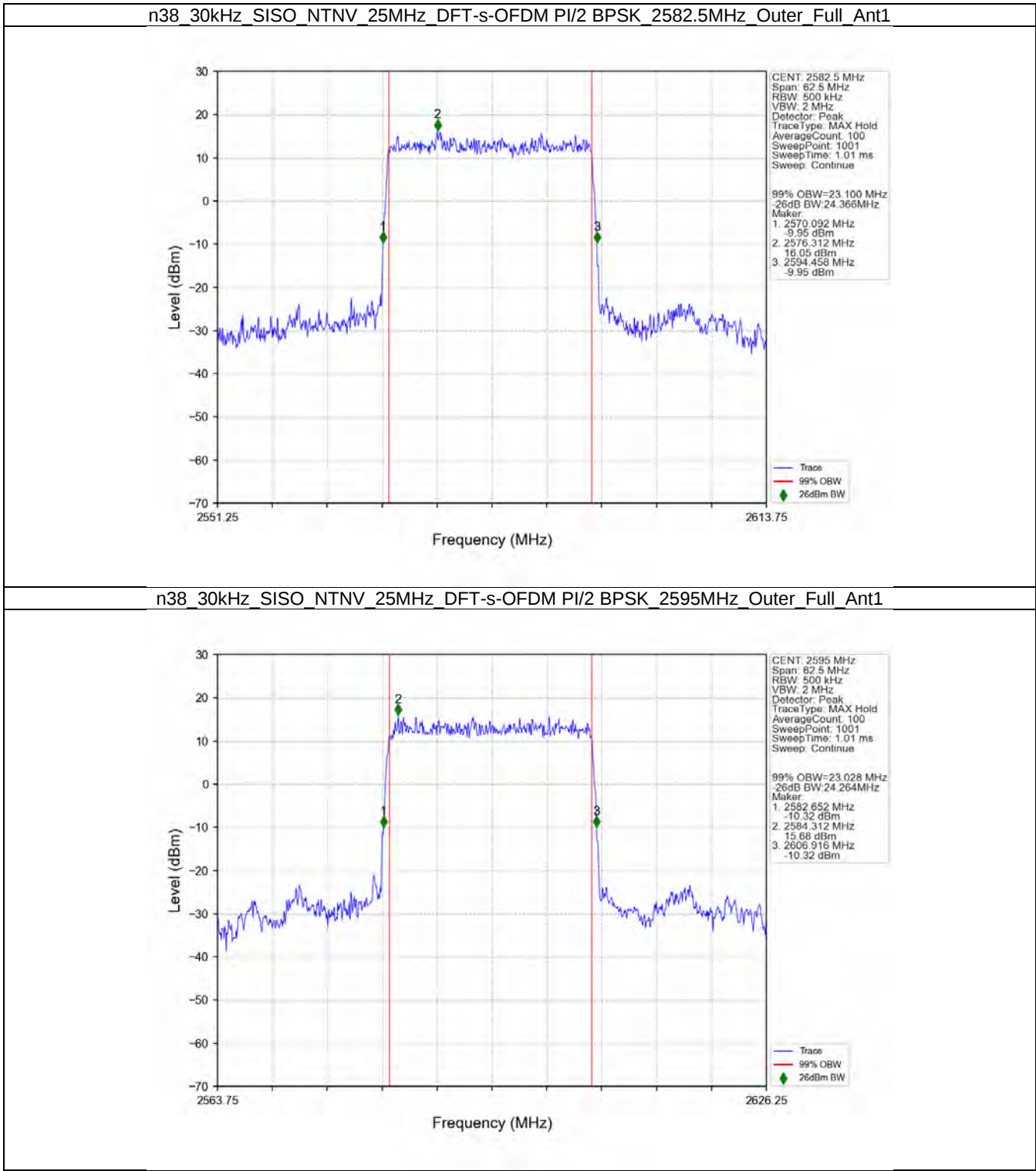


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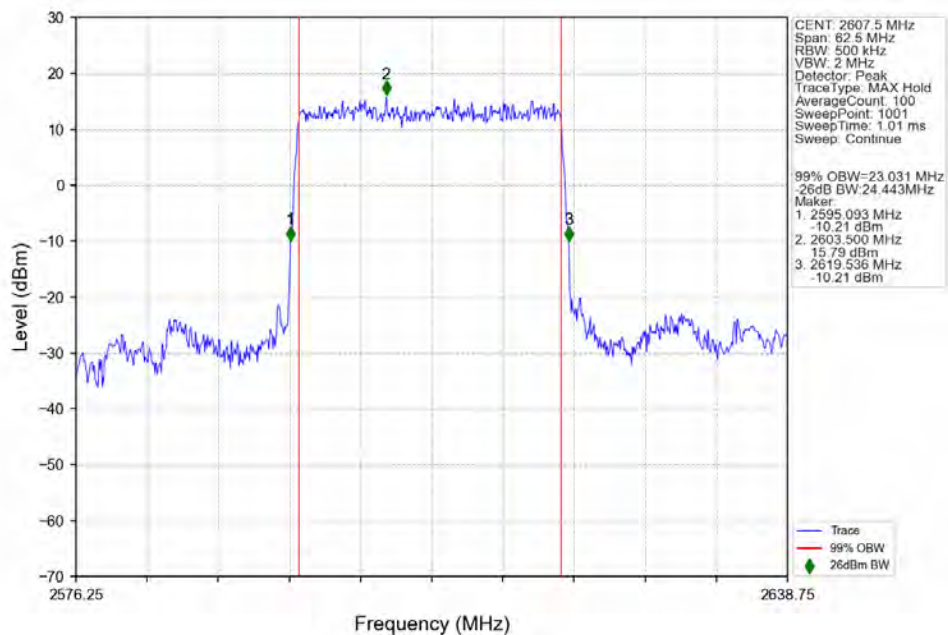




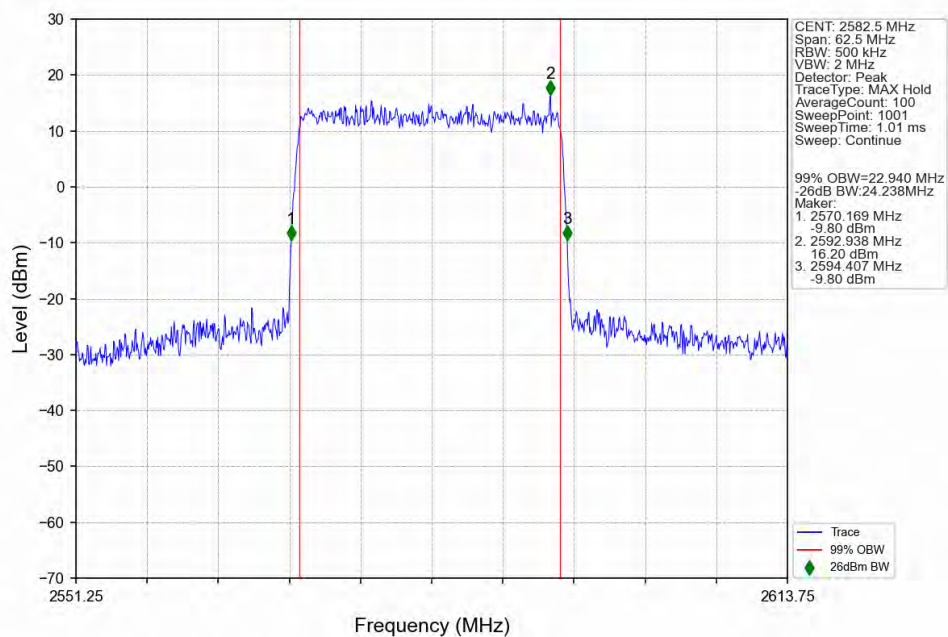
3.2.4 30k\_SISO\_25MHz\_NTNV



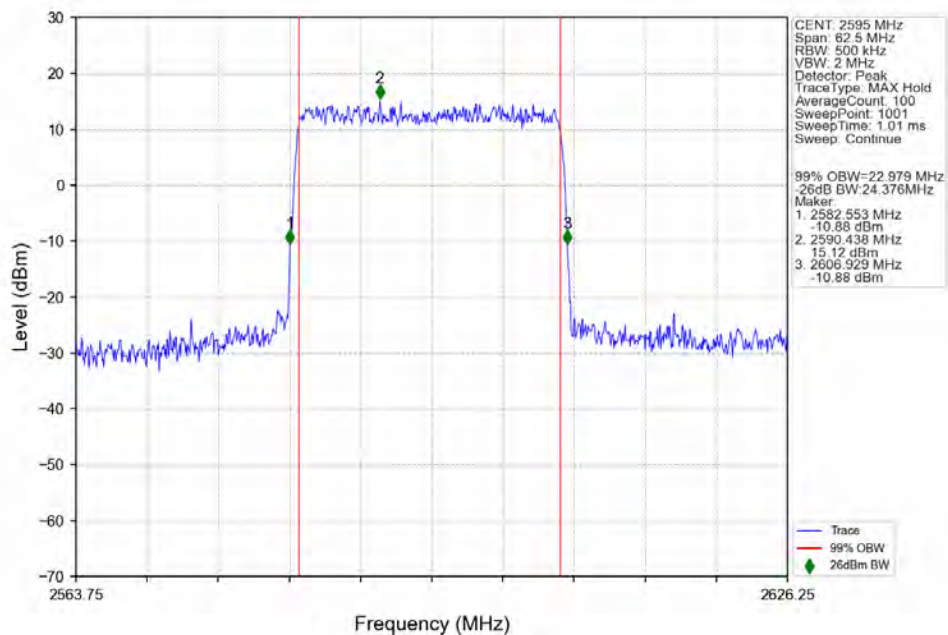
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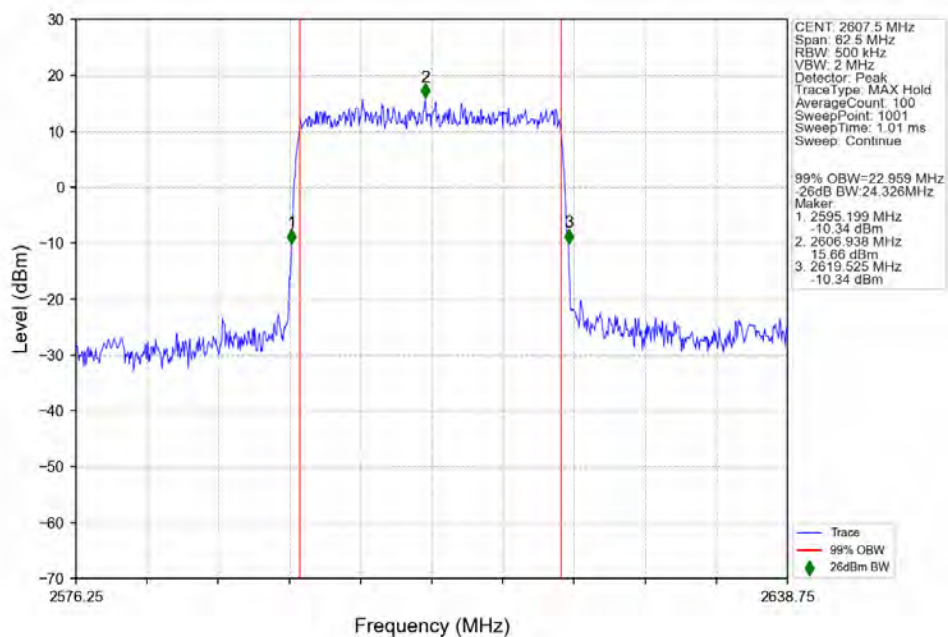
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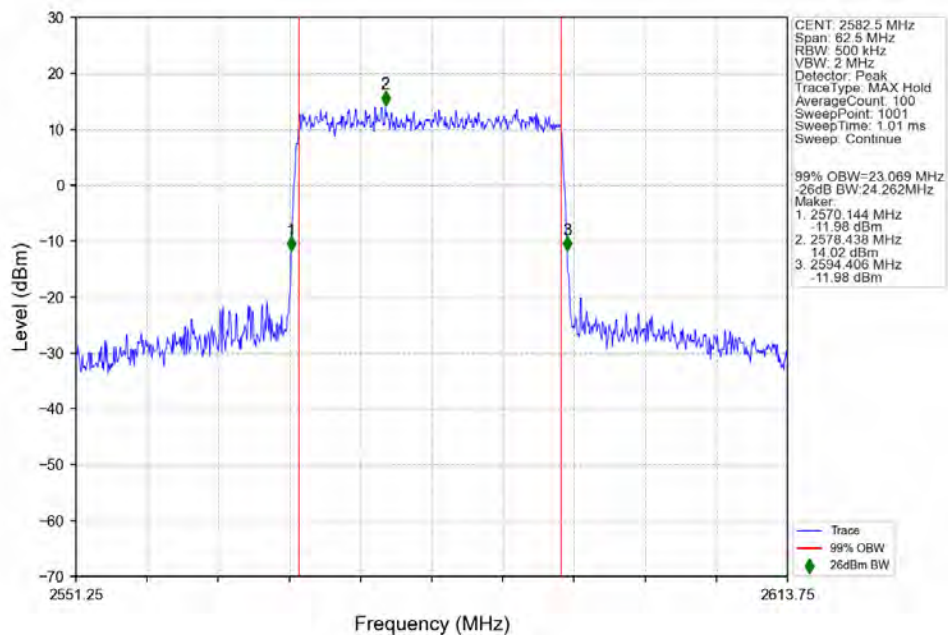
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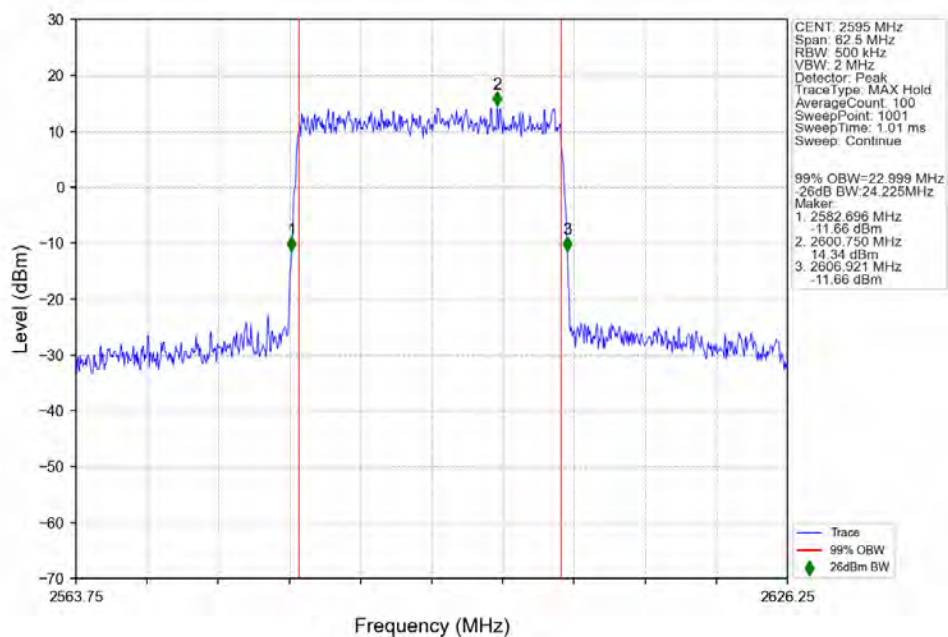
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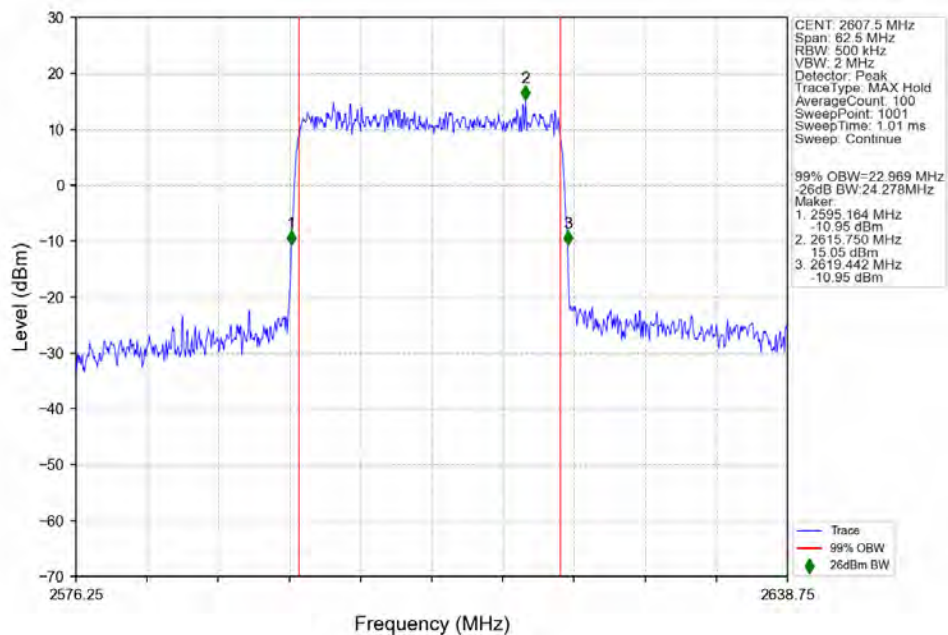
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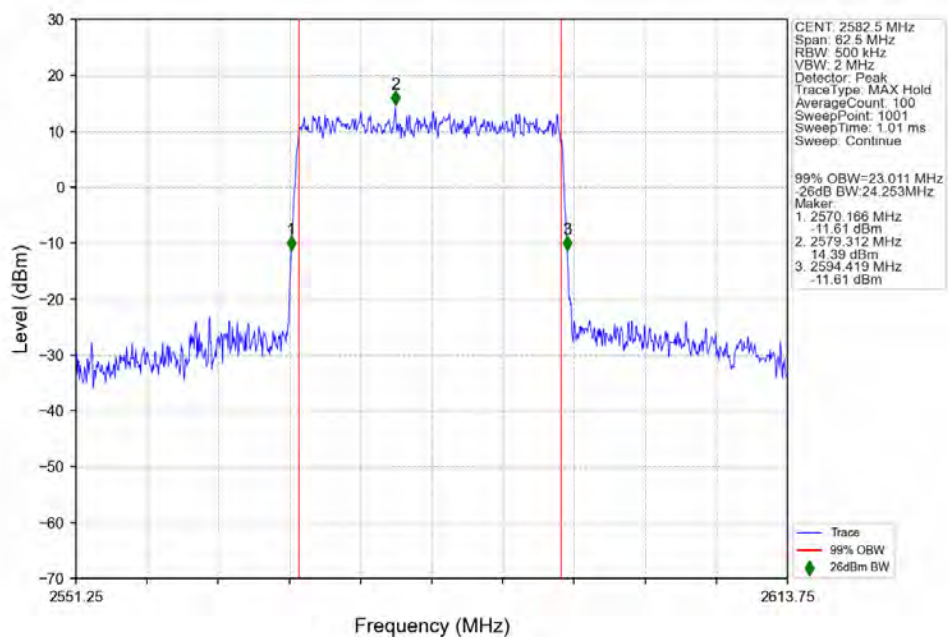
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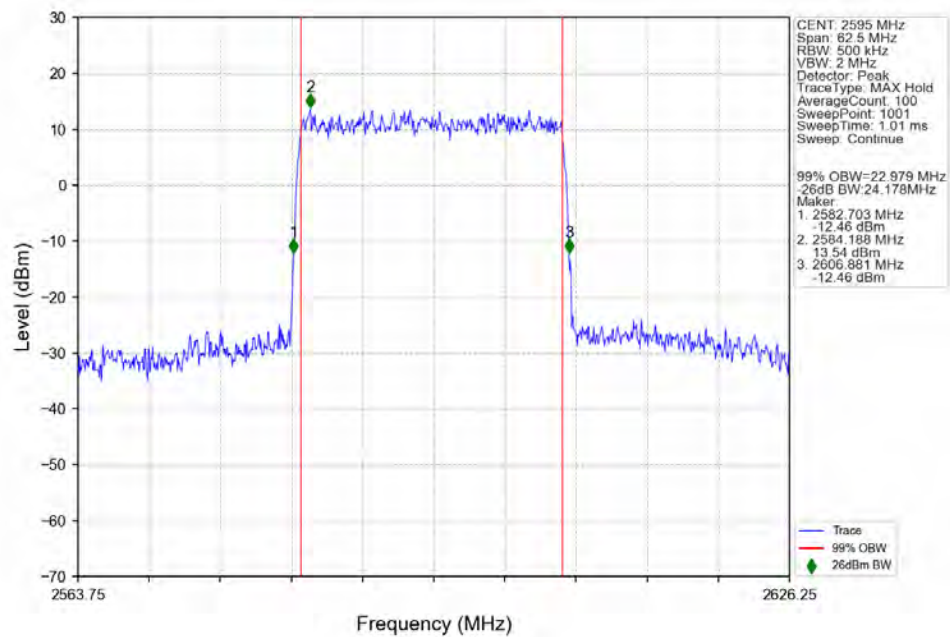
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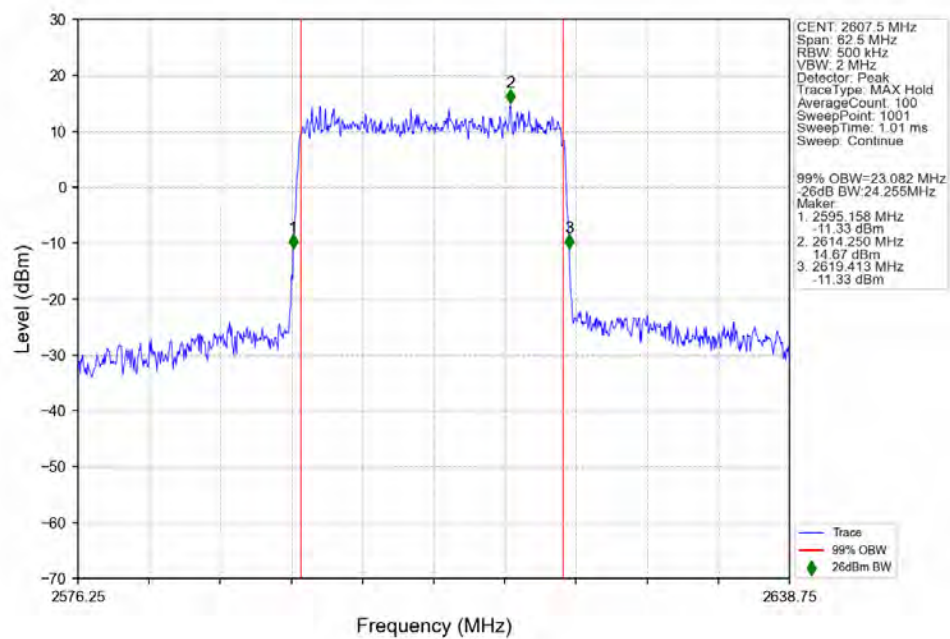
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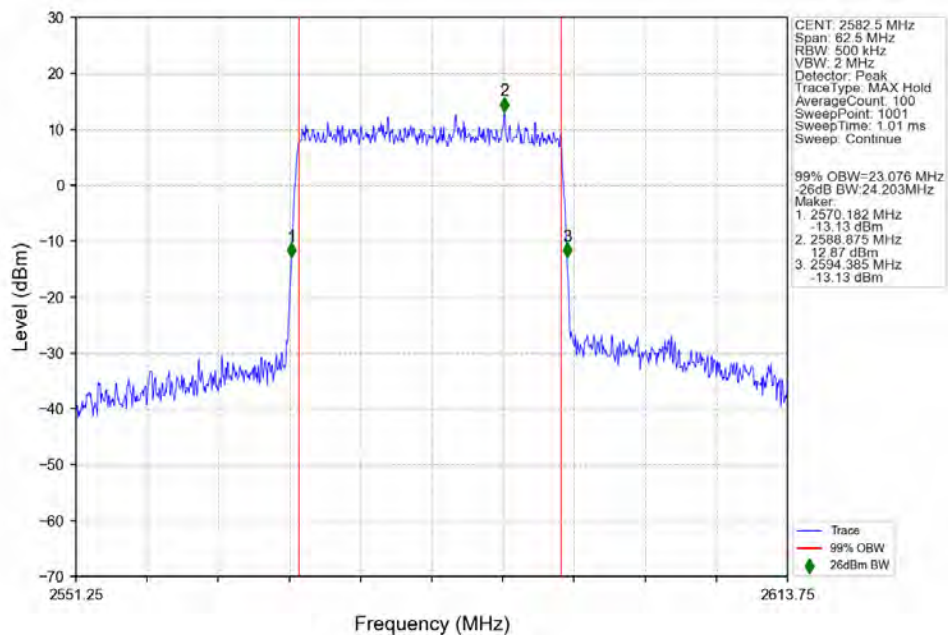
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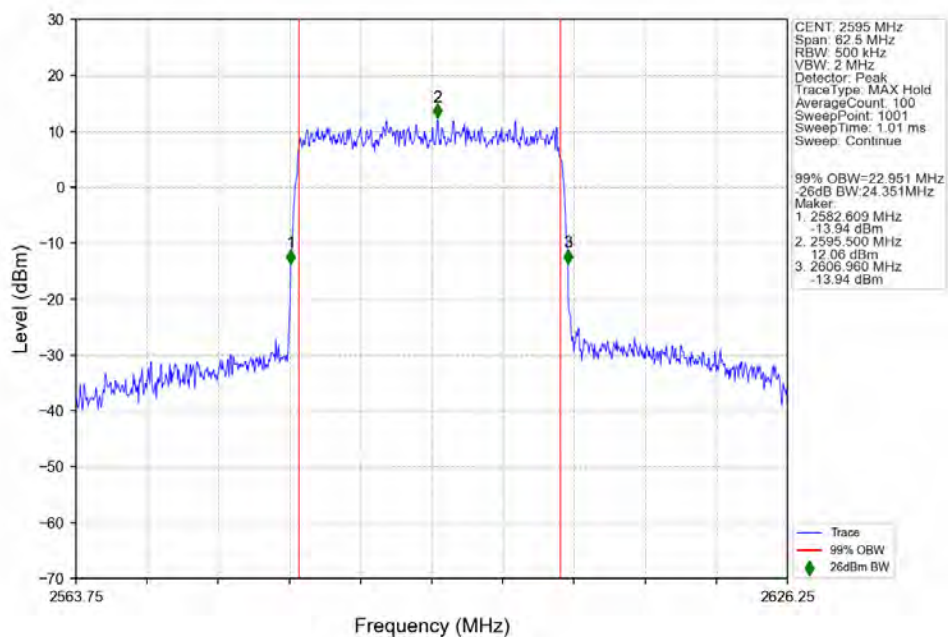
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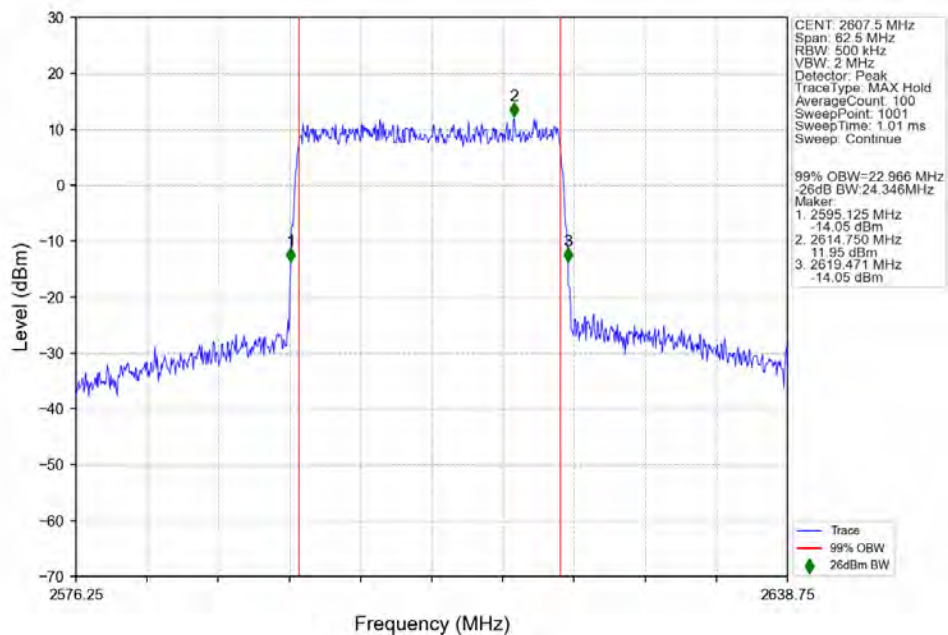
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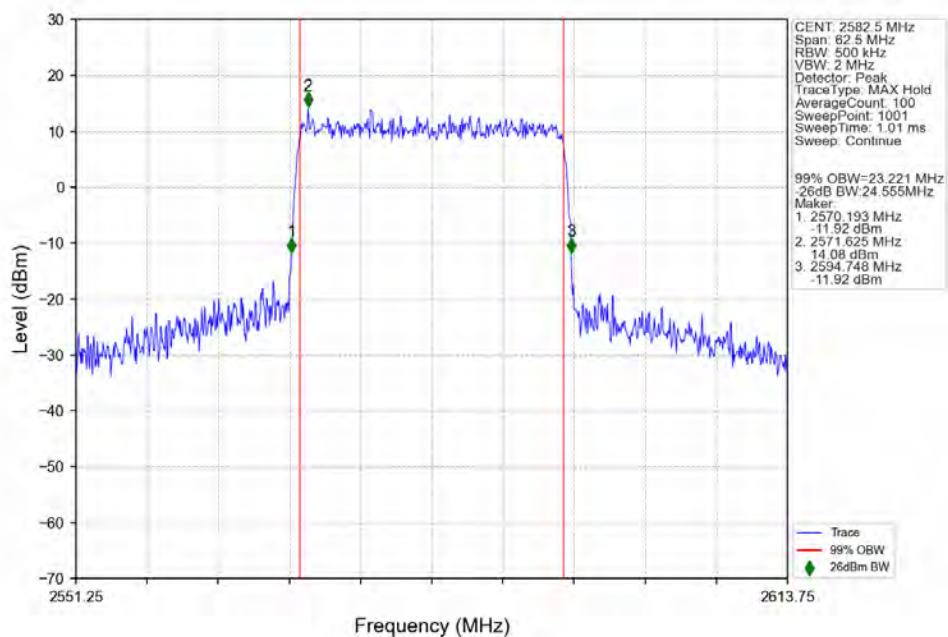
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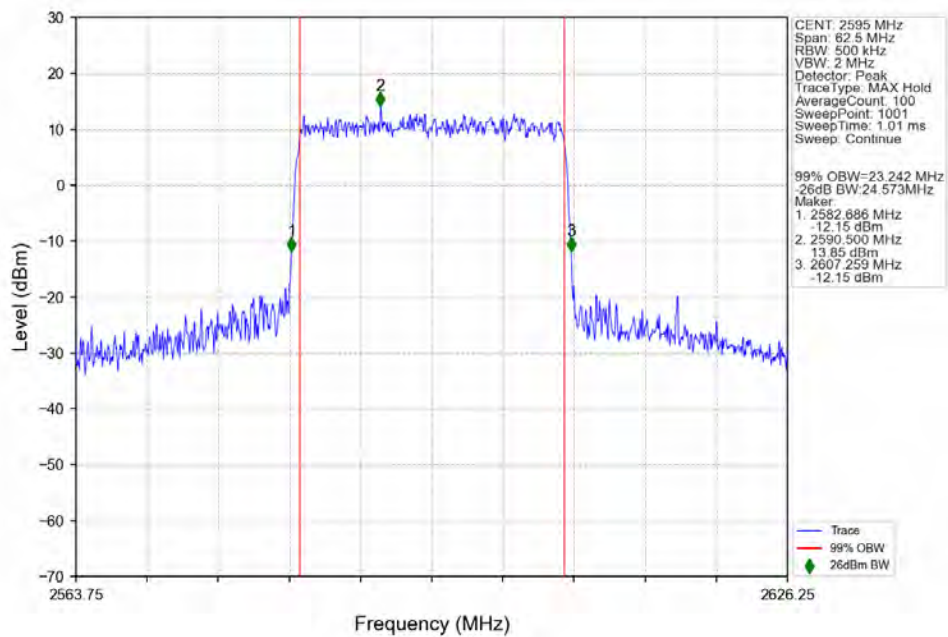
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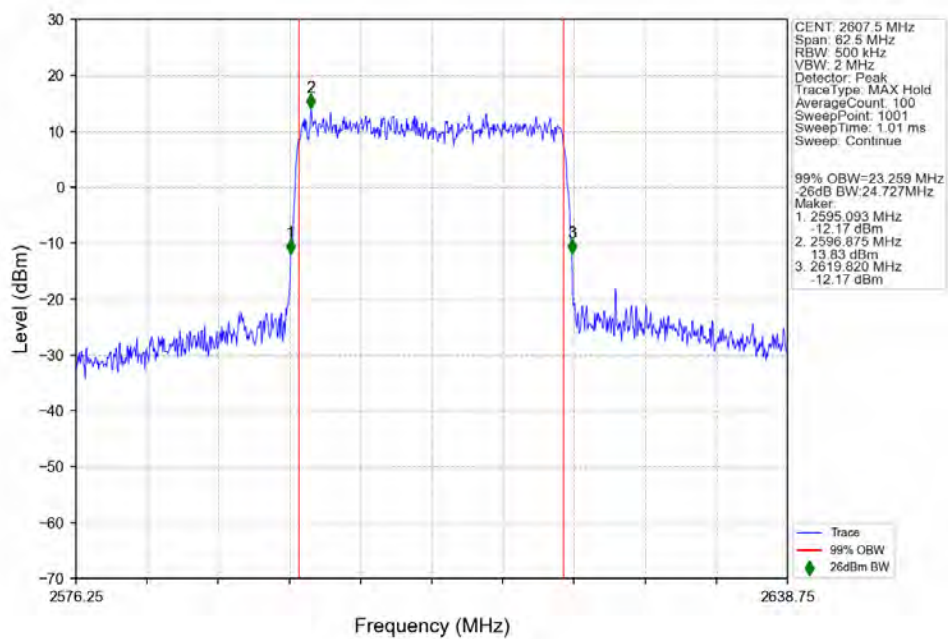
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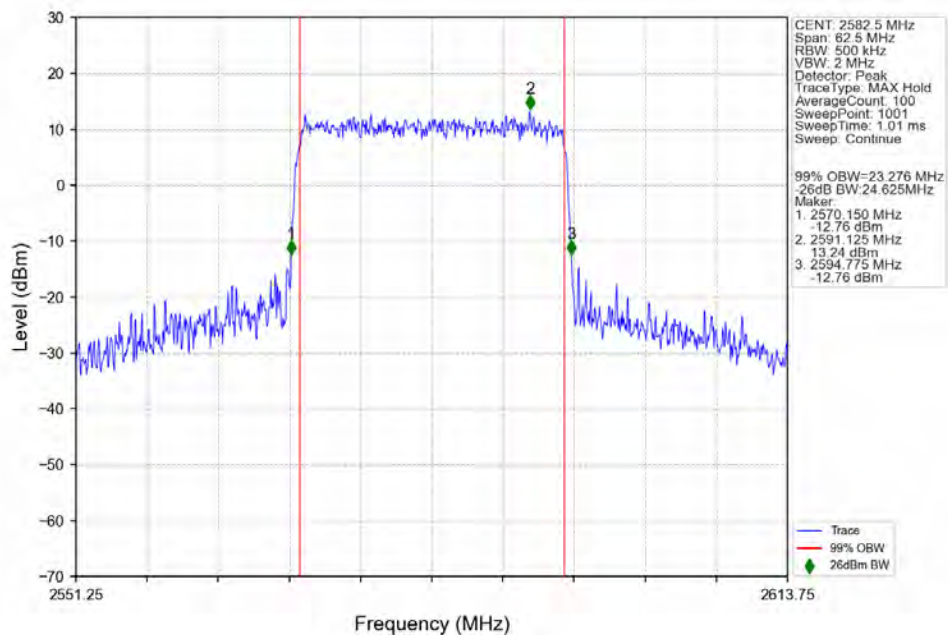
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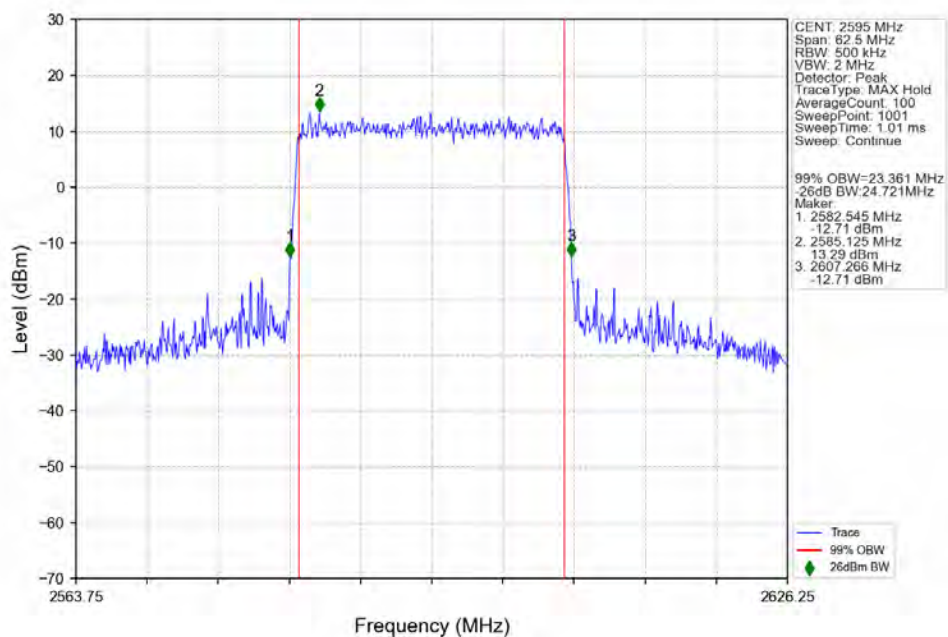
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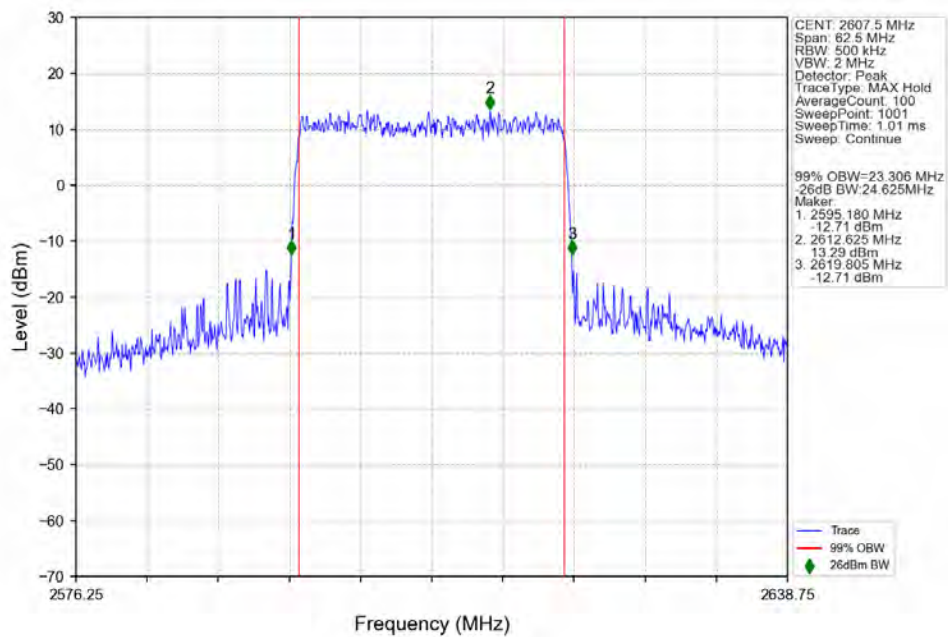
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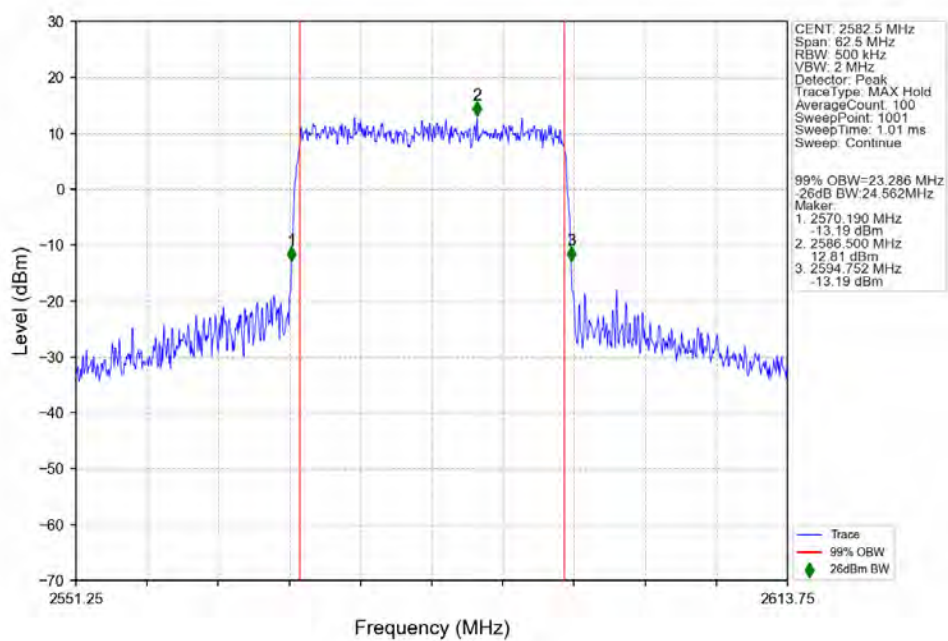
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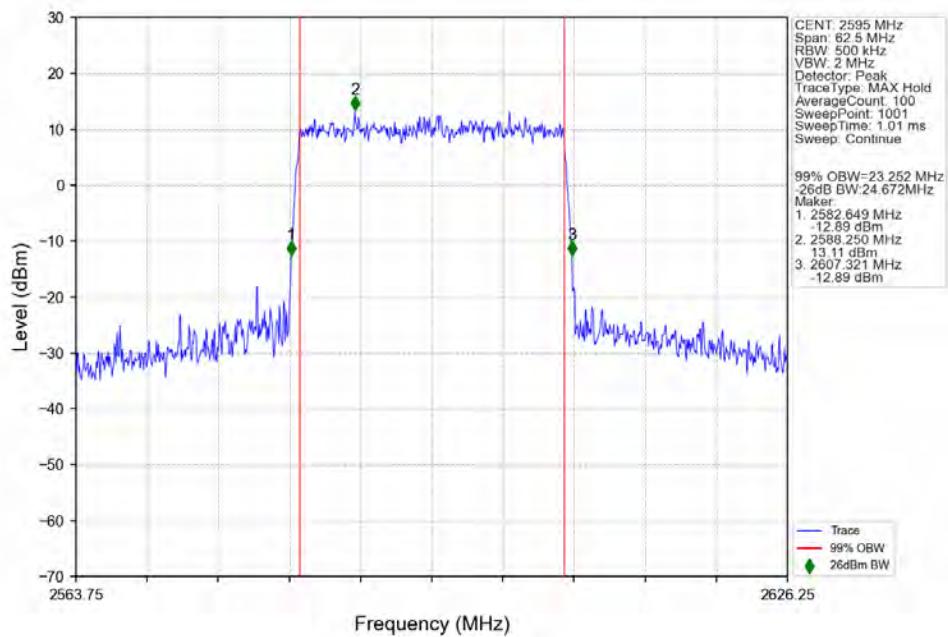
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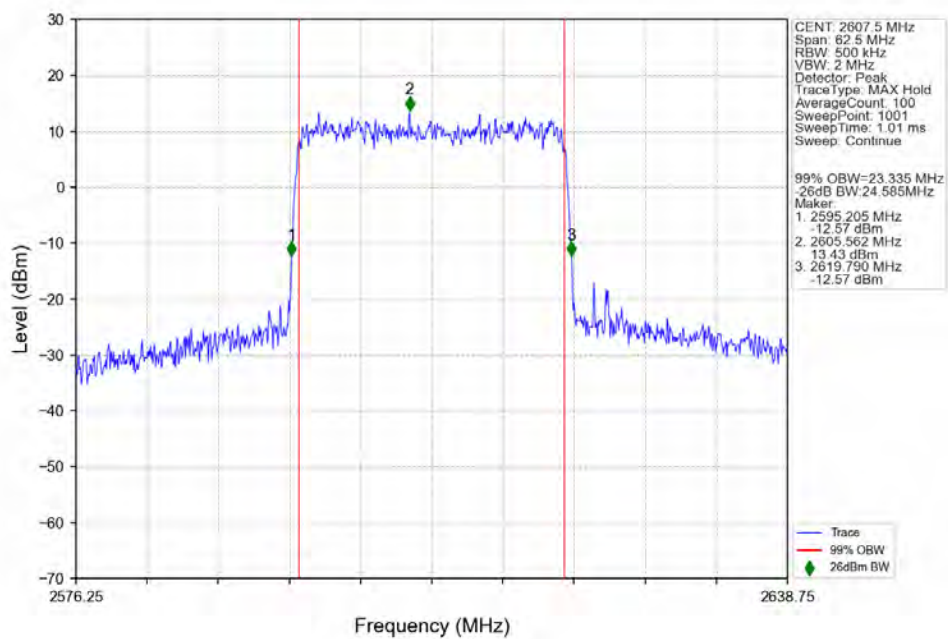
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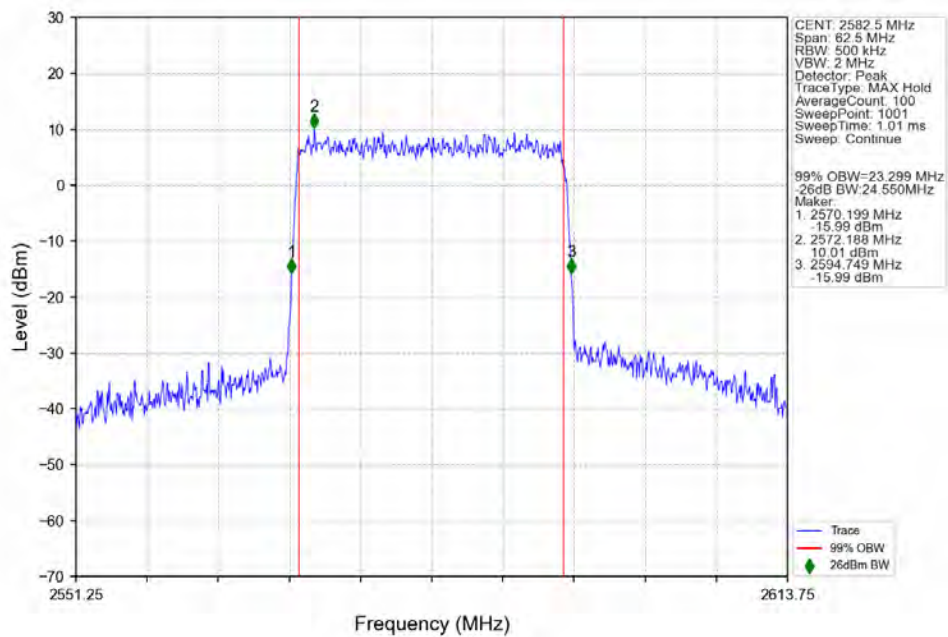
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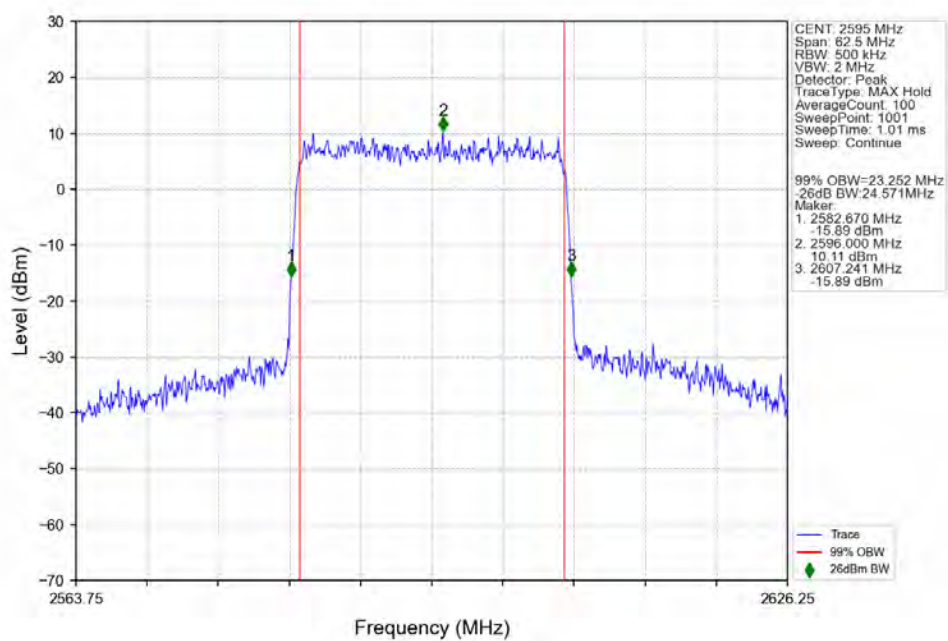
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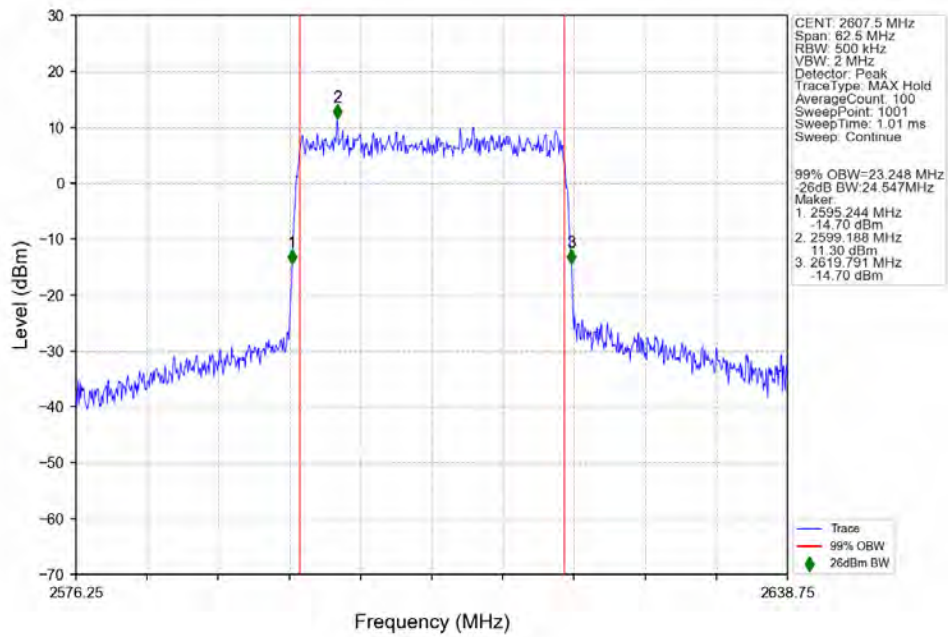
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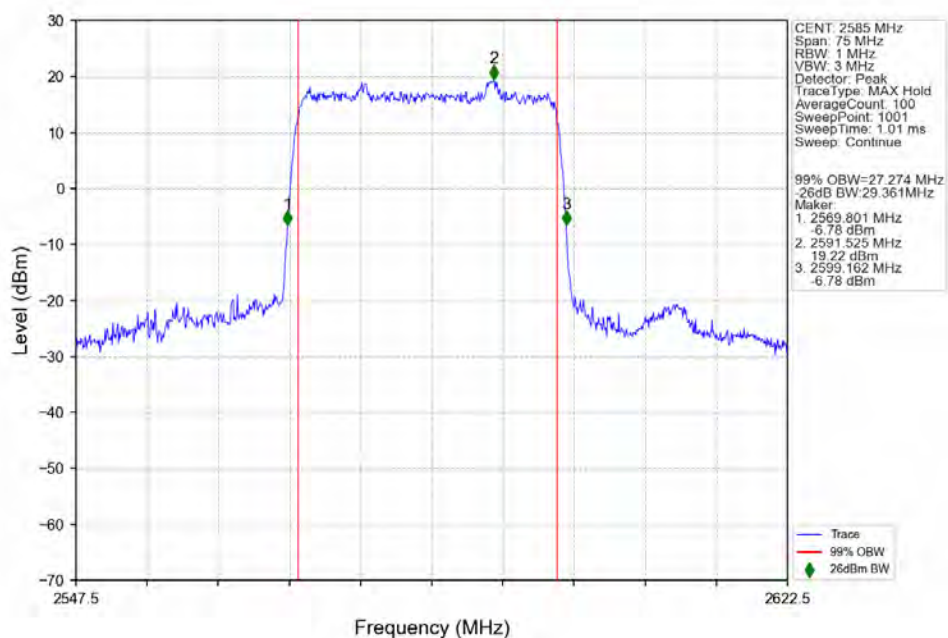


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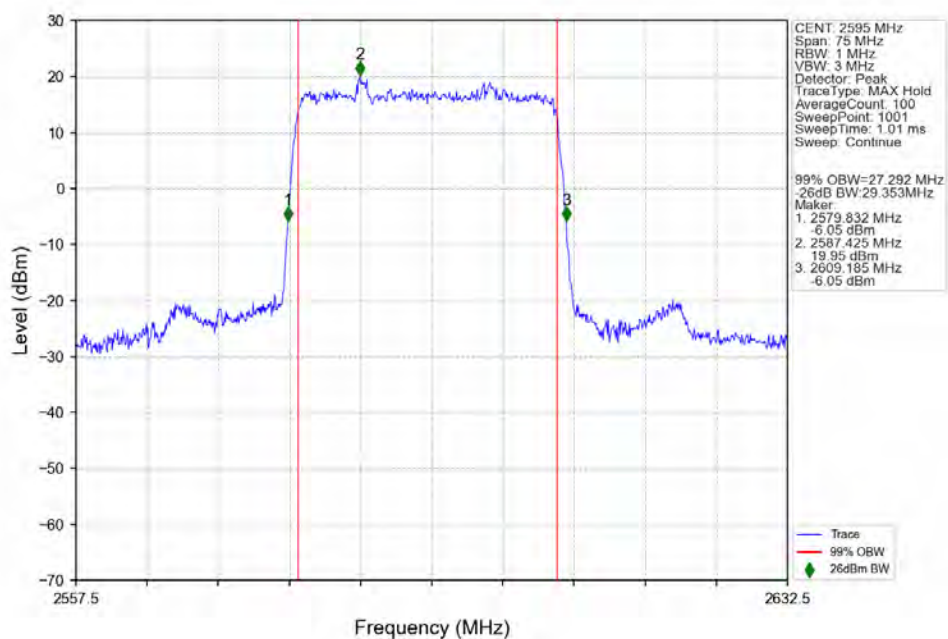


## 3.2.5 30k\_SISO\_30MHz\_NTNV

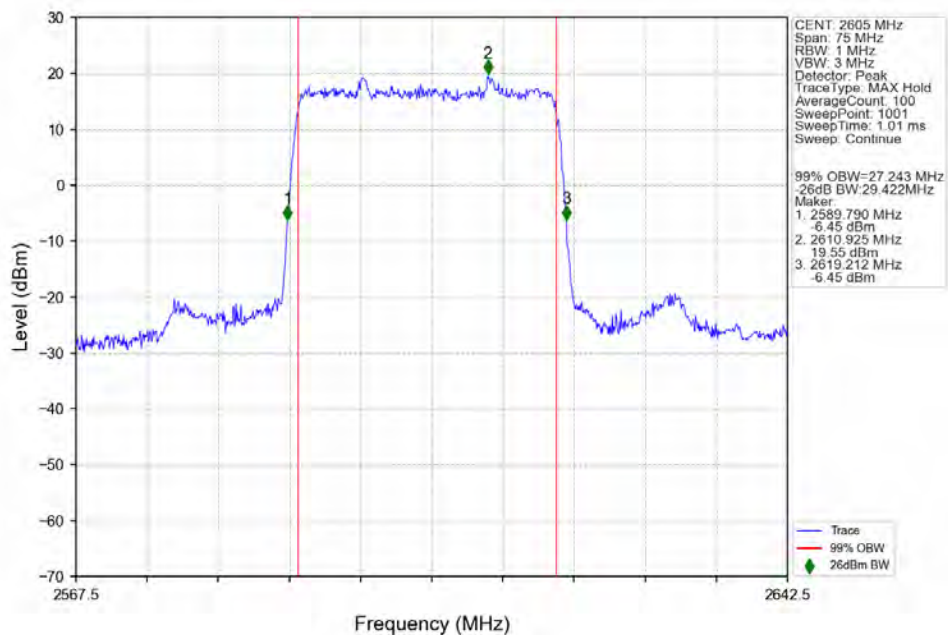
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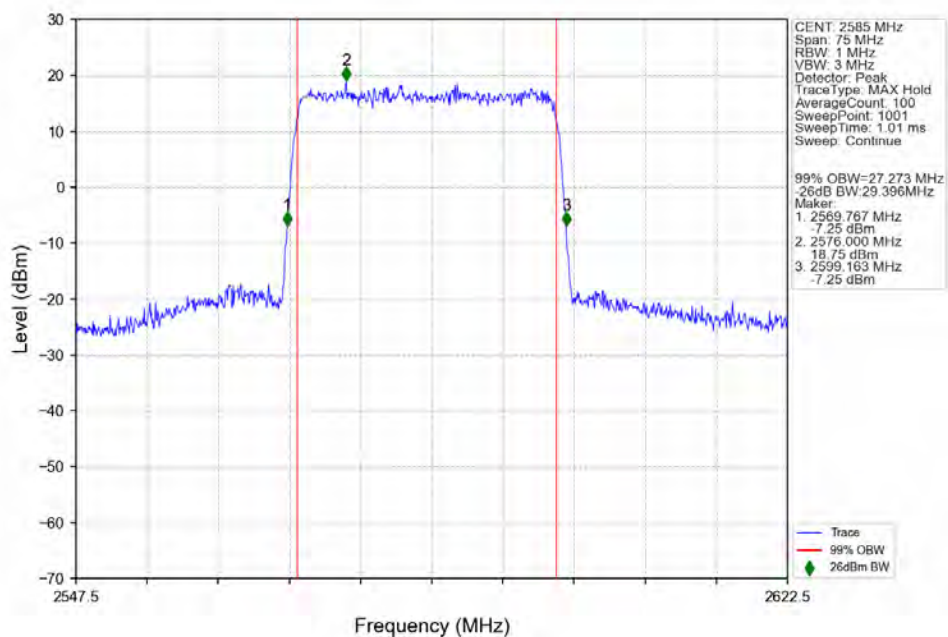
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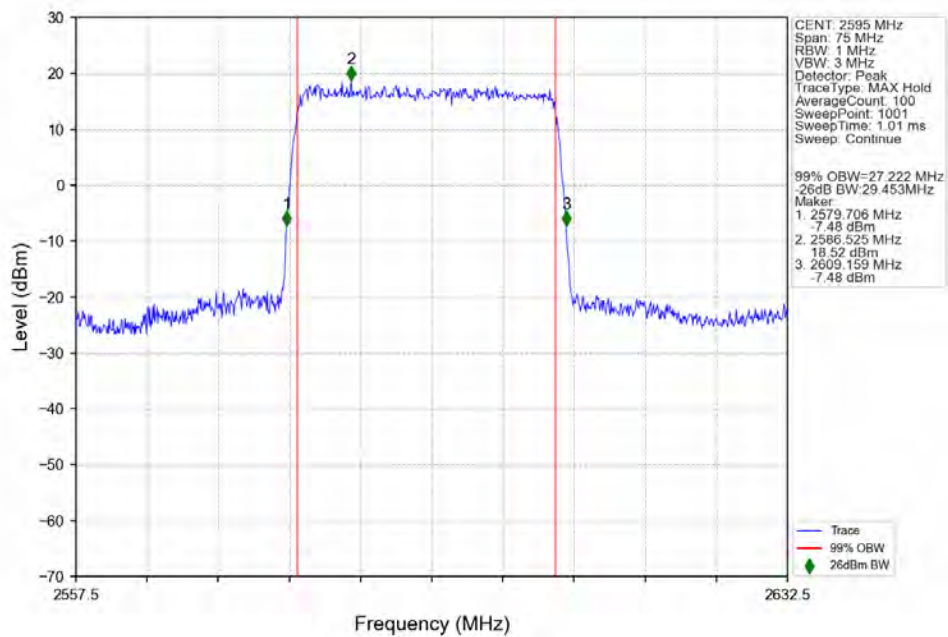
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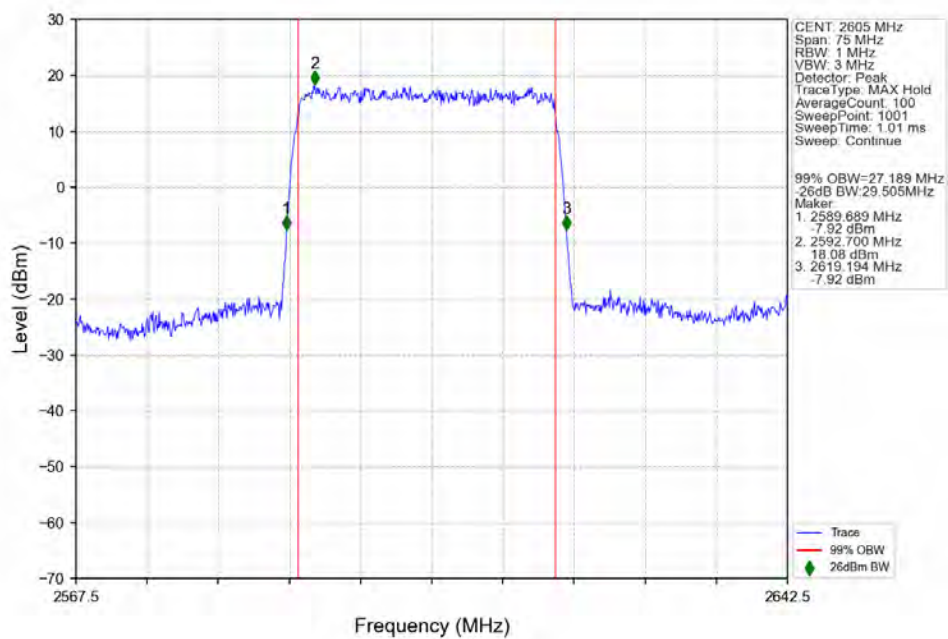
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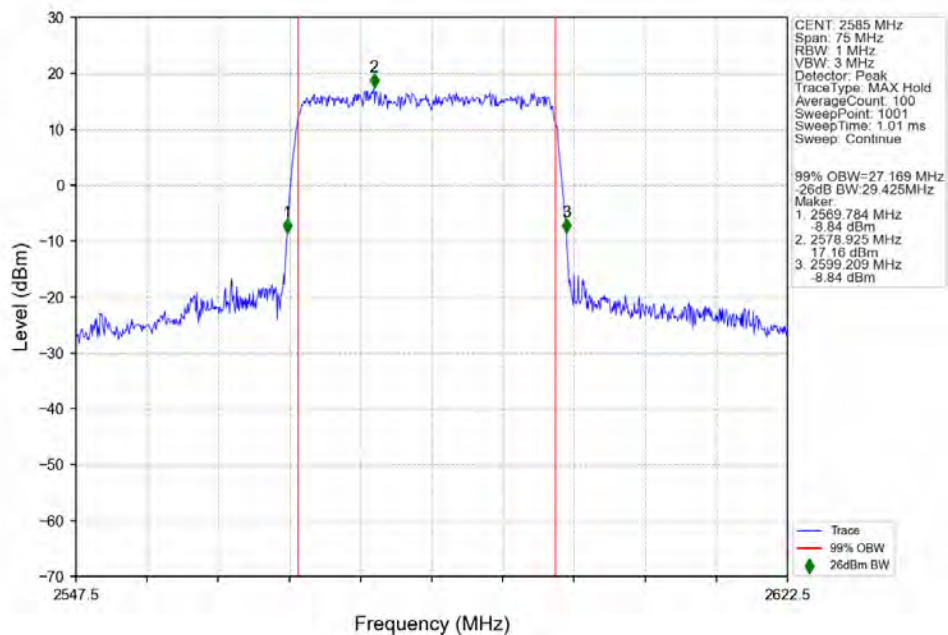
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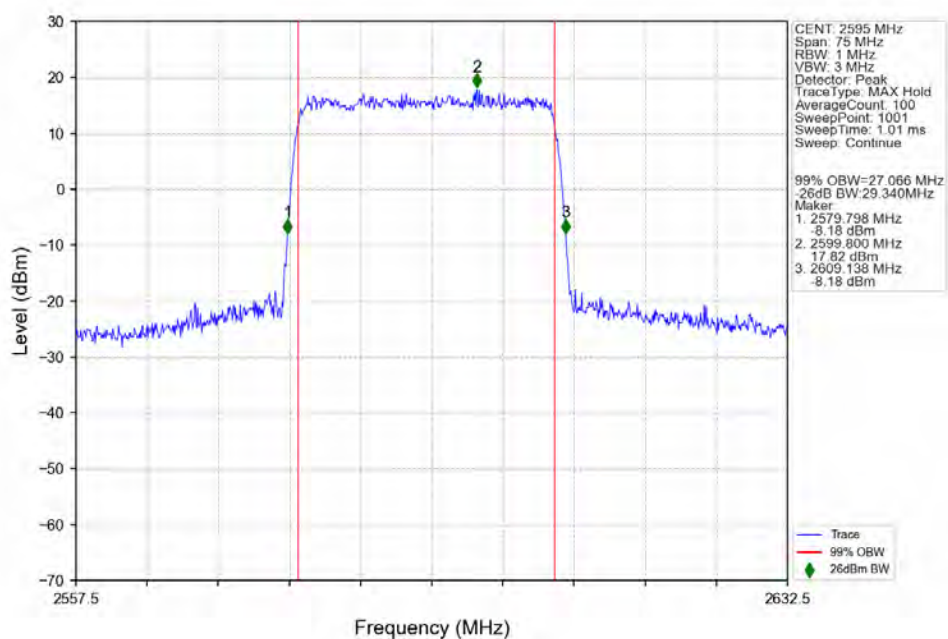
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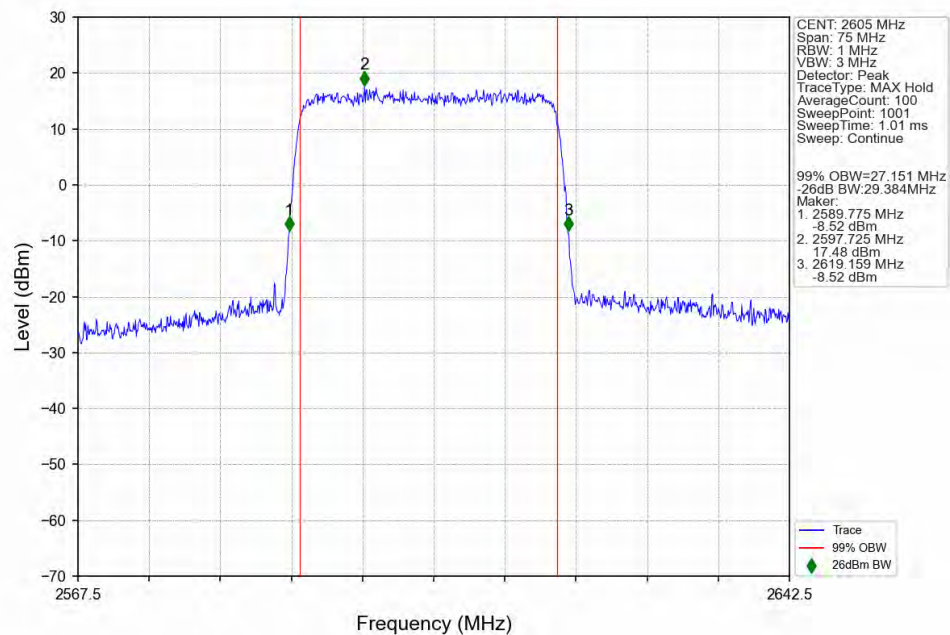
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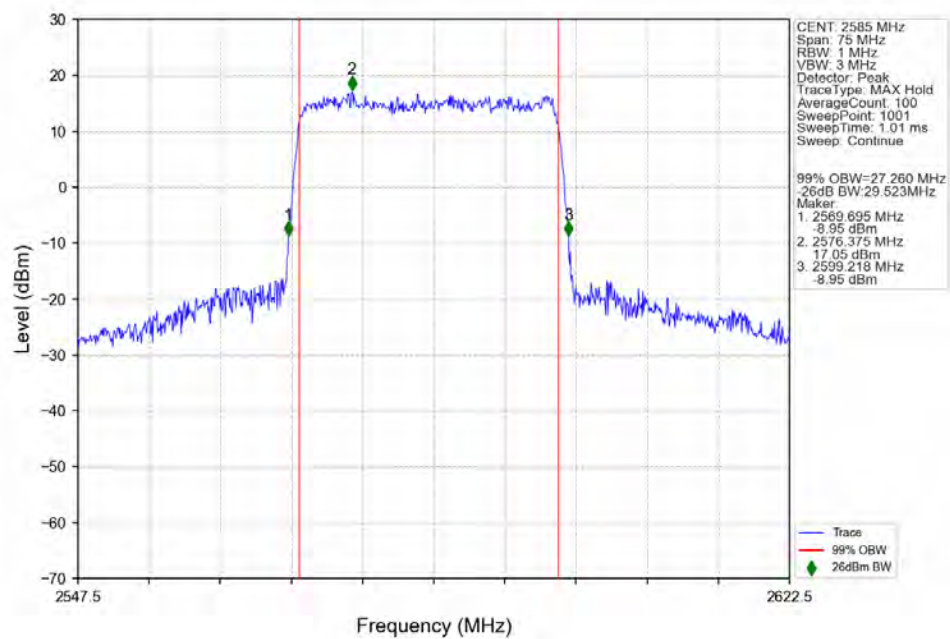
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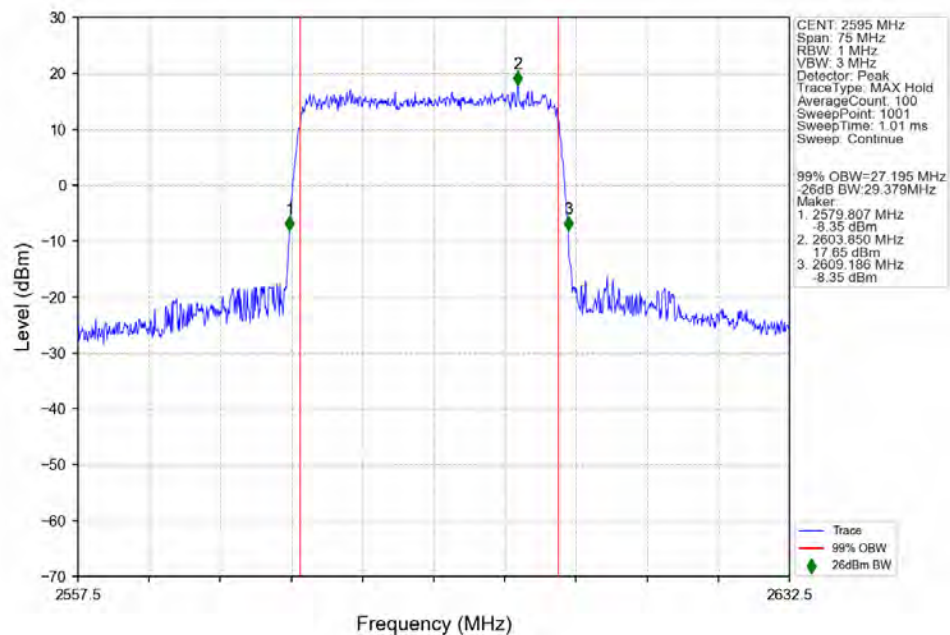
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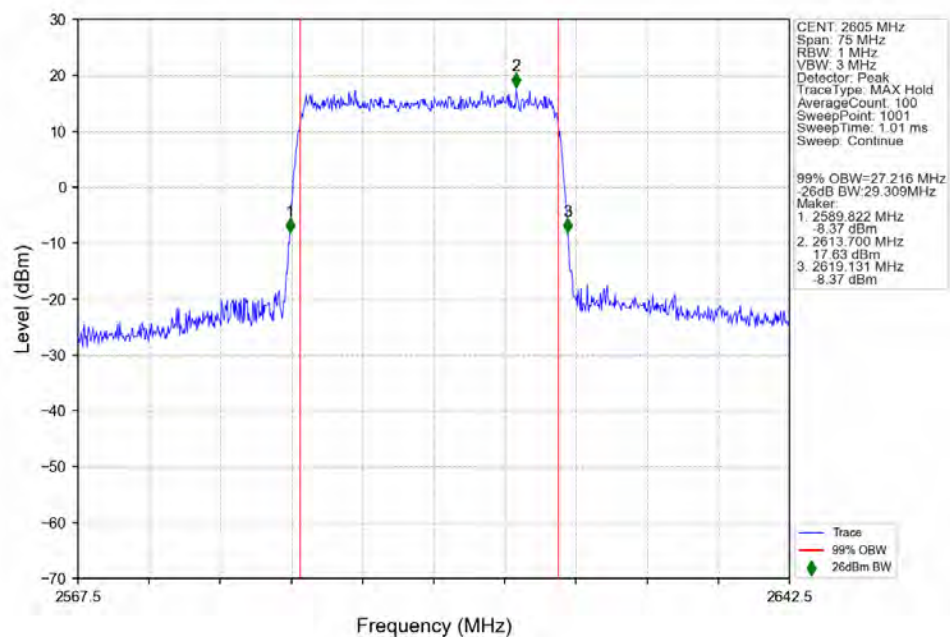
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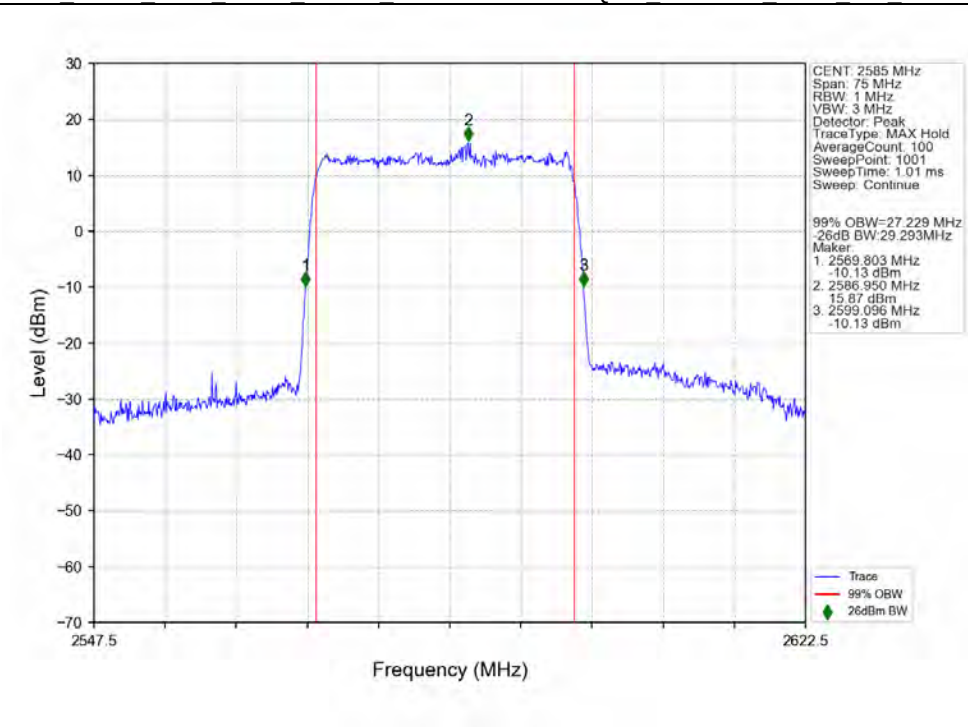
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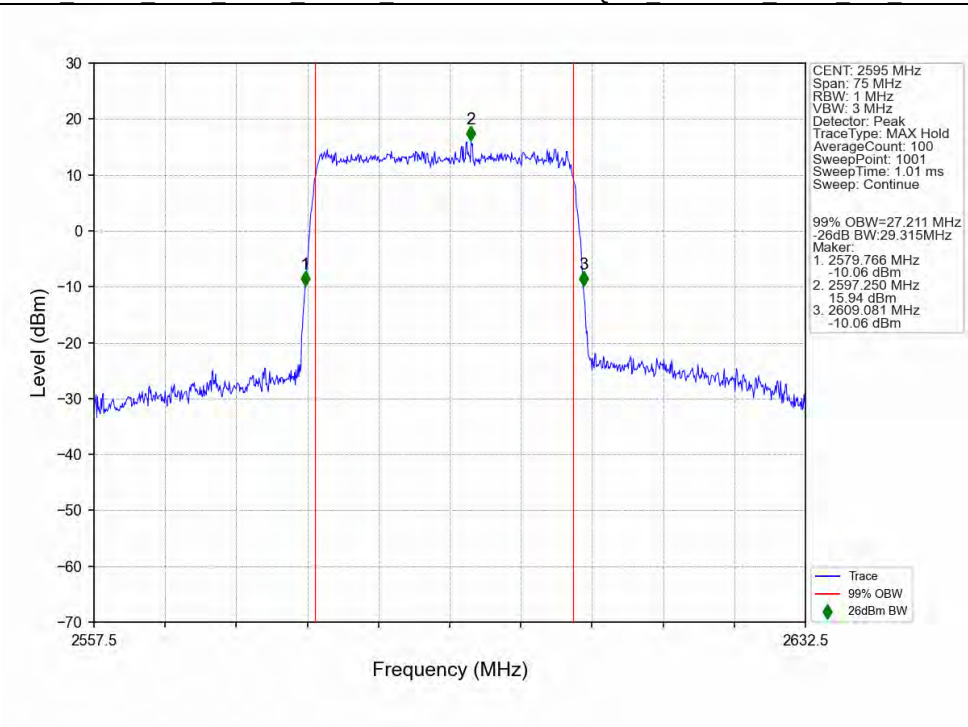
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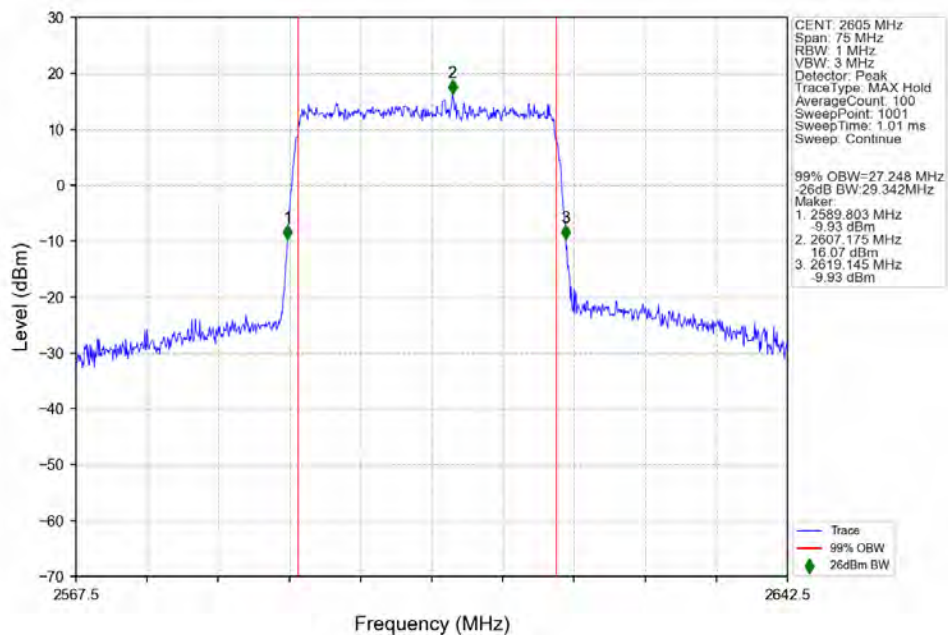
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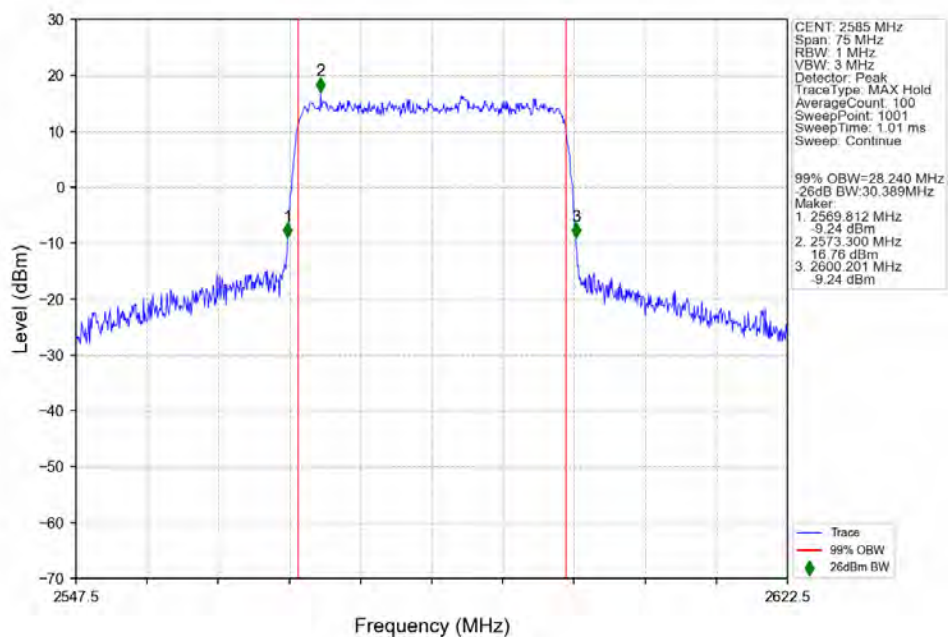
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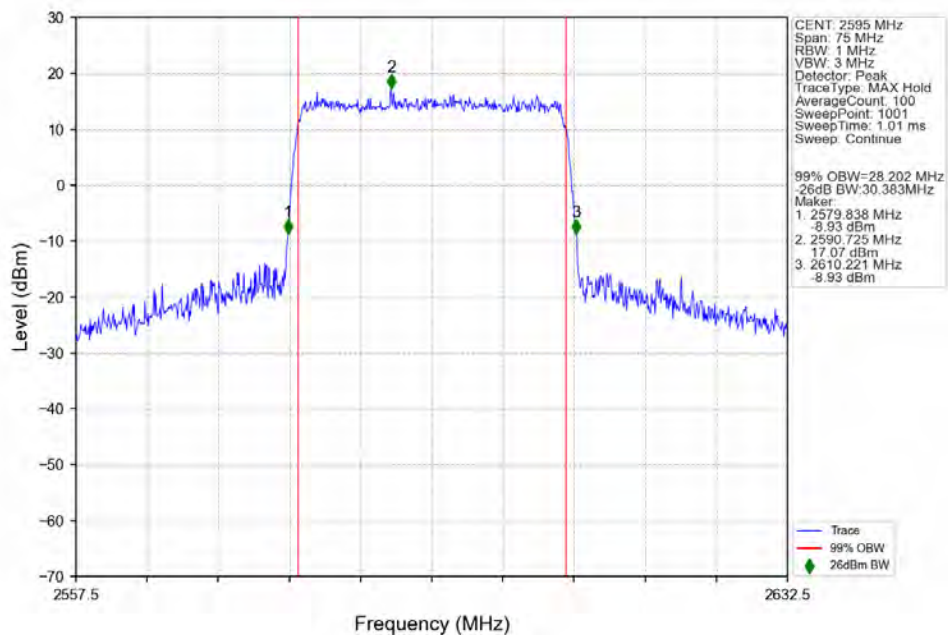
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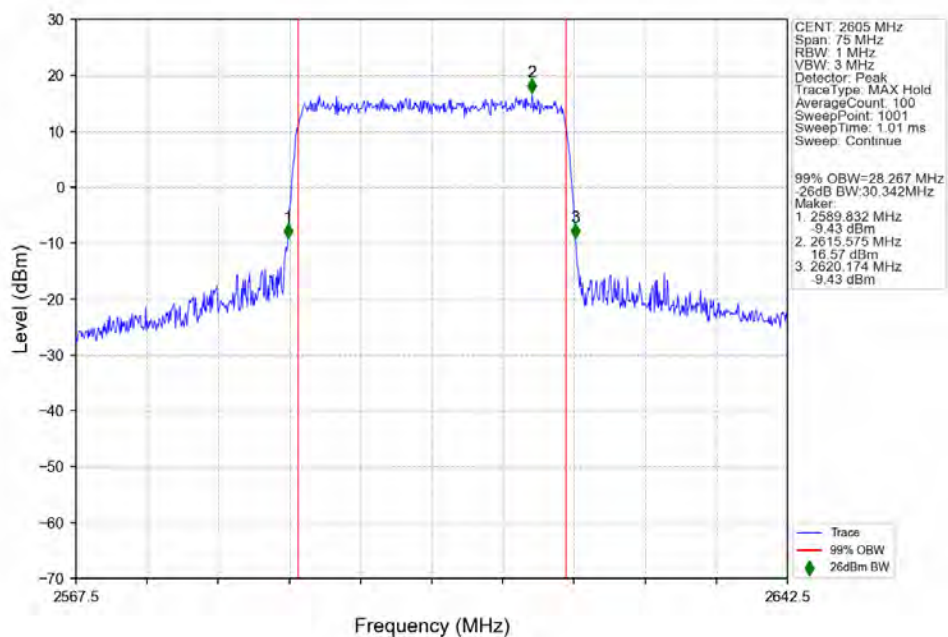
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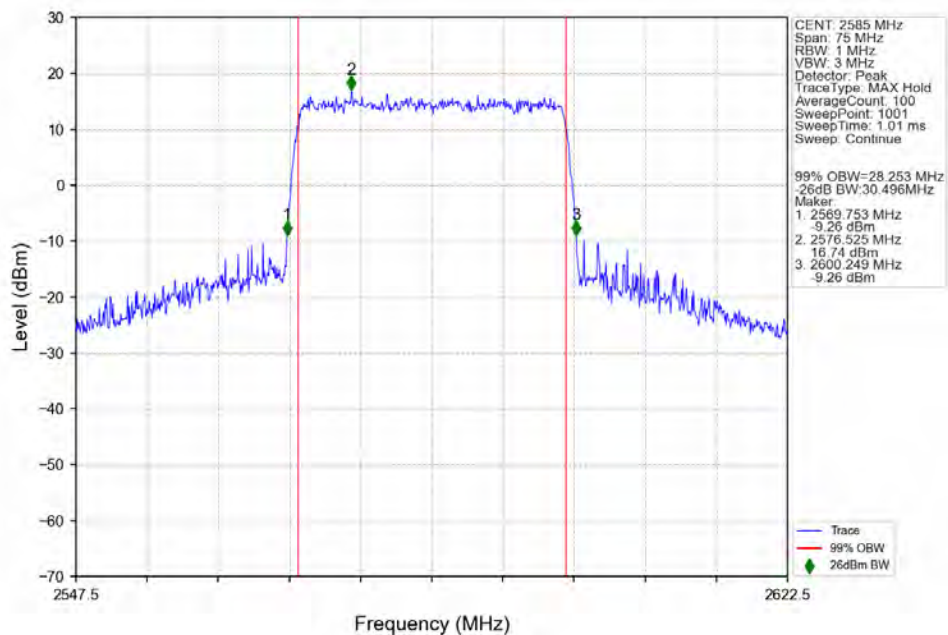
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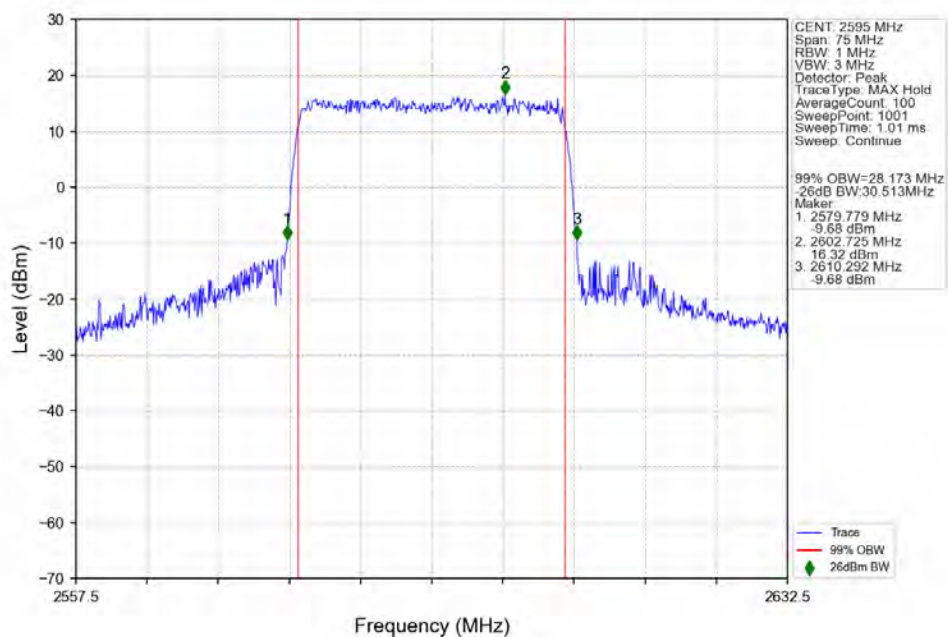
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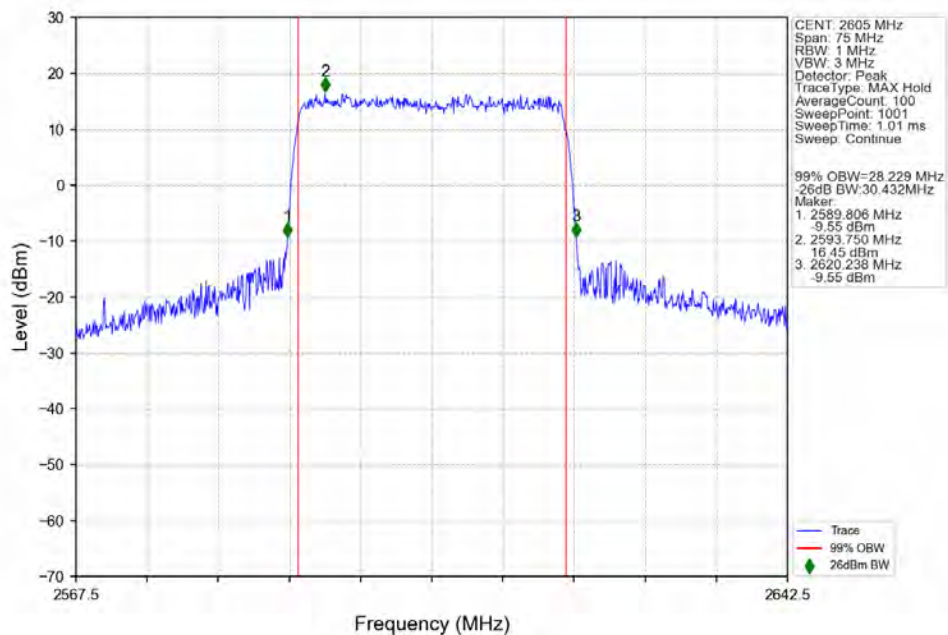
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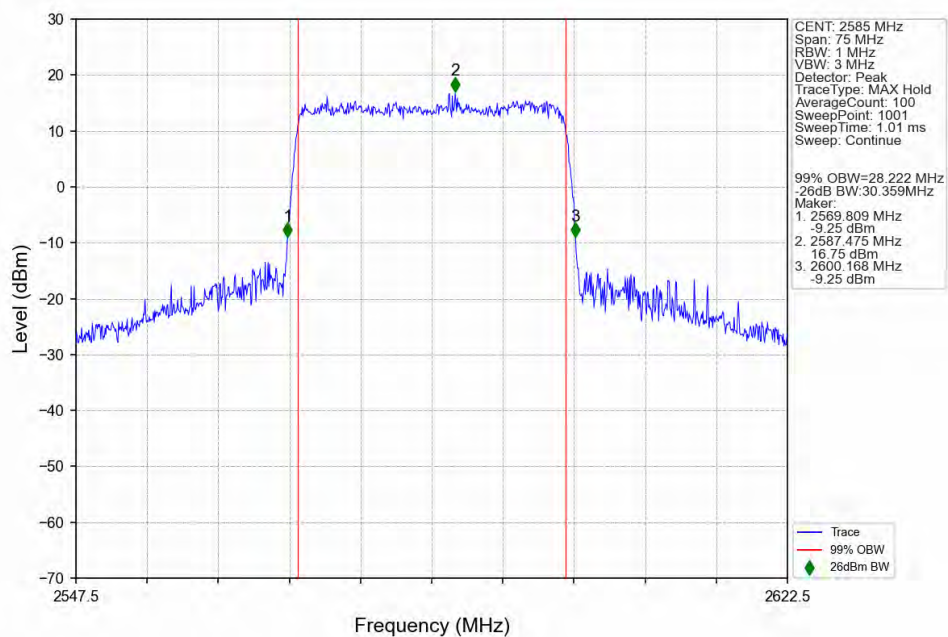
n38 30kHz SISO NTN 30MHz CP-OFDM 16 QAM 2595MHz Outer Full Ant1



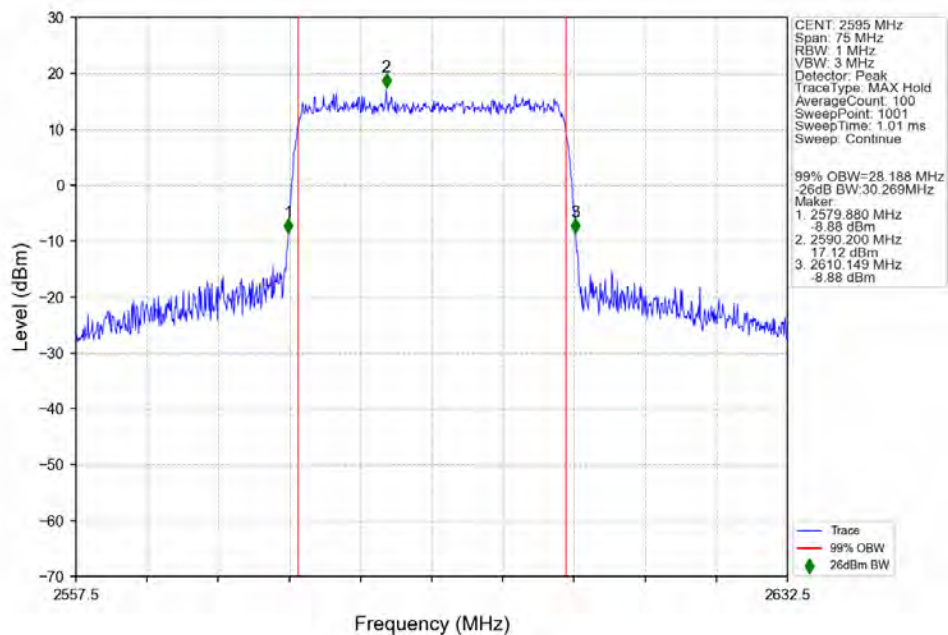
n38 30kHz SISO NTN 30MHz CP-OFDM 16 QAM 2605MHz Outer Full Ant1



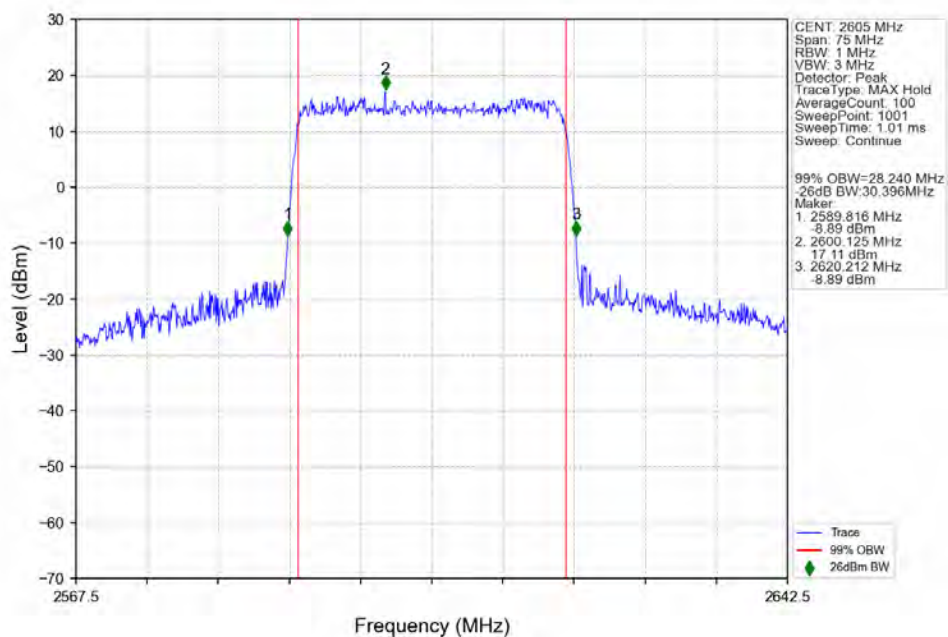
n38 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 2585MHz Outer Full Ant1



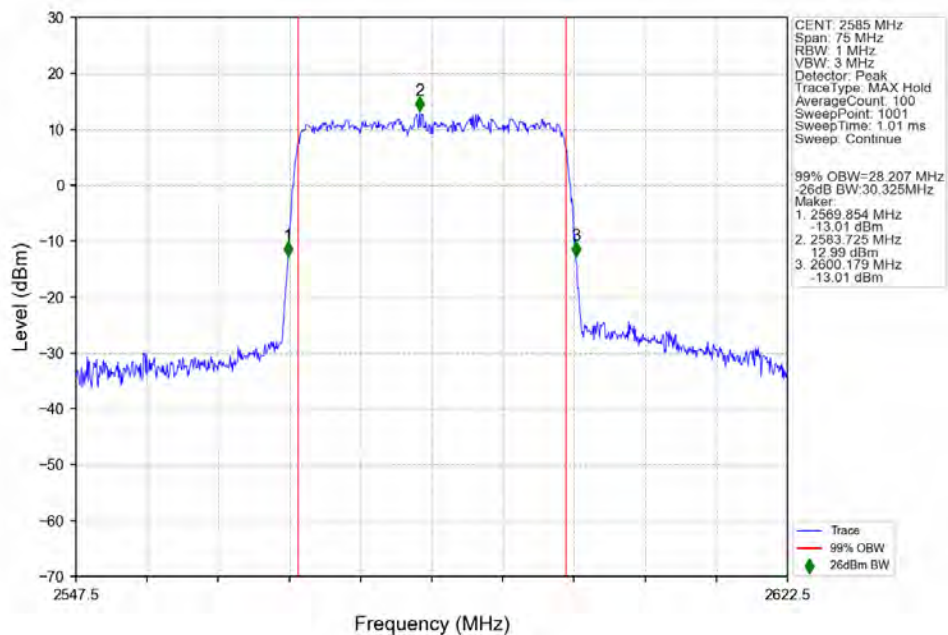
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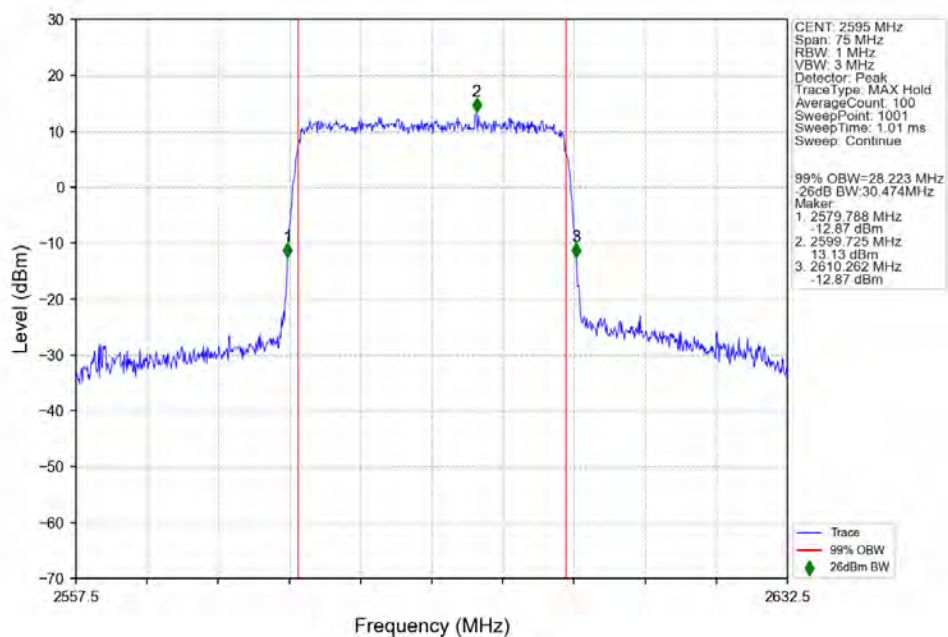
n38 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 2605MHz Outer Full Ant1

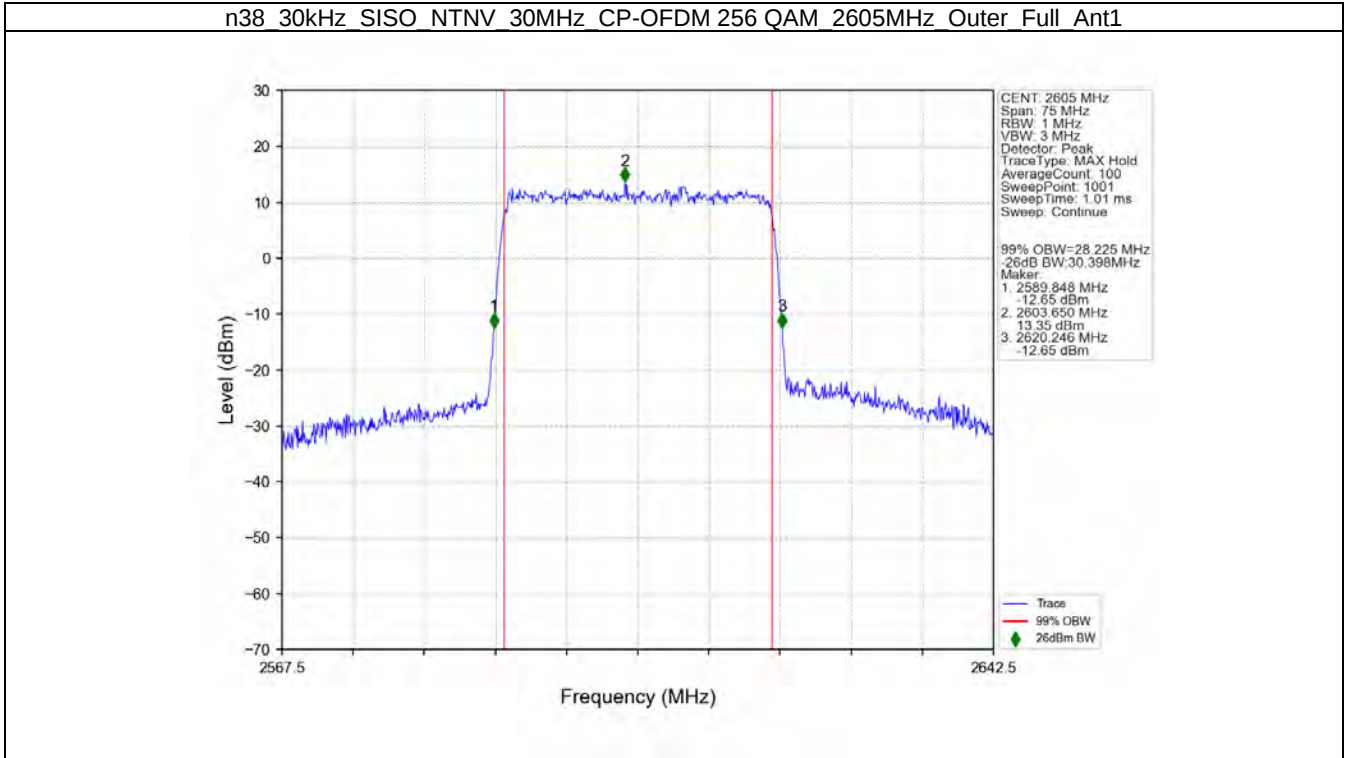


n38 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 2585MHz Outer Full Ant1



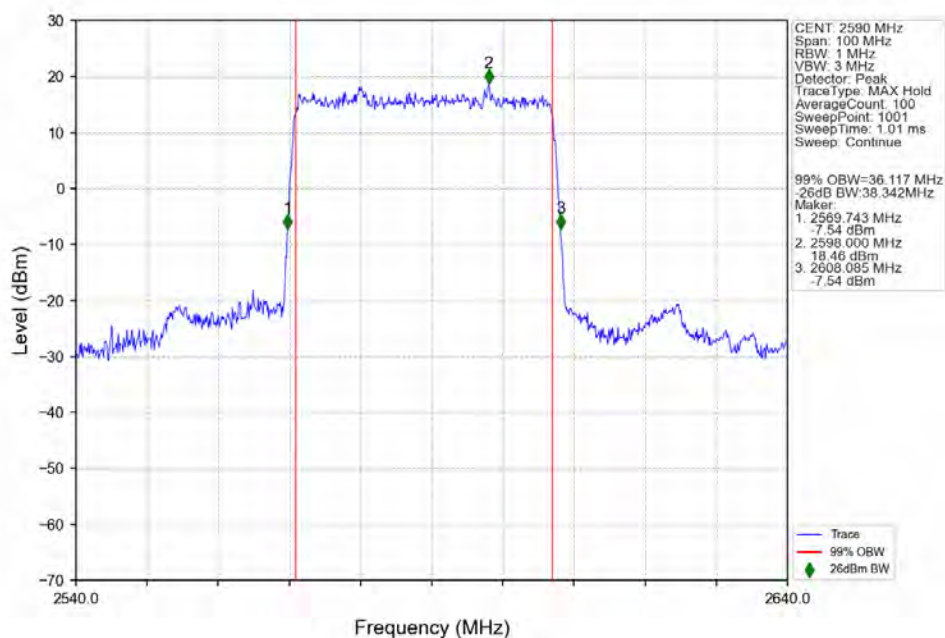
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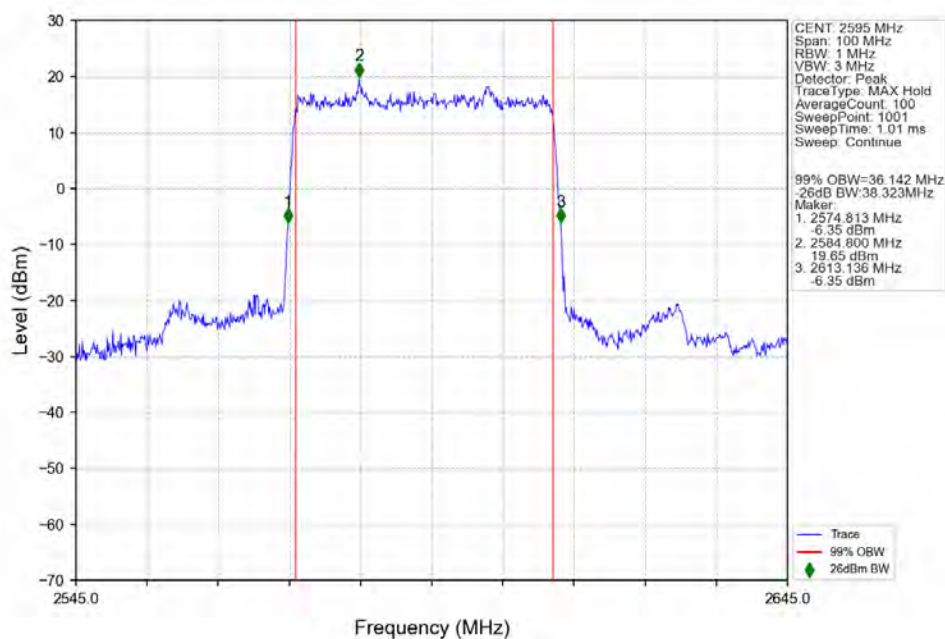


## 3.2.6 30k\_SISO\_40MHz\_NTNV

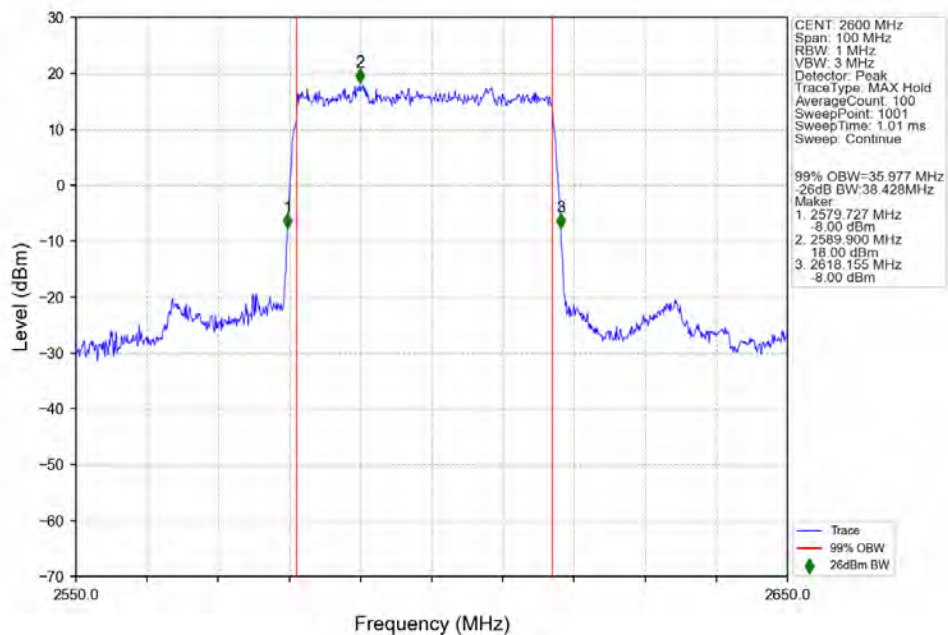
n38\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_2590MHz\_Outer\_Full\_Ant1



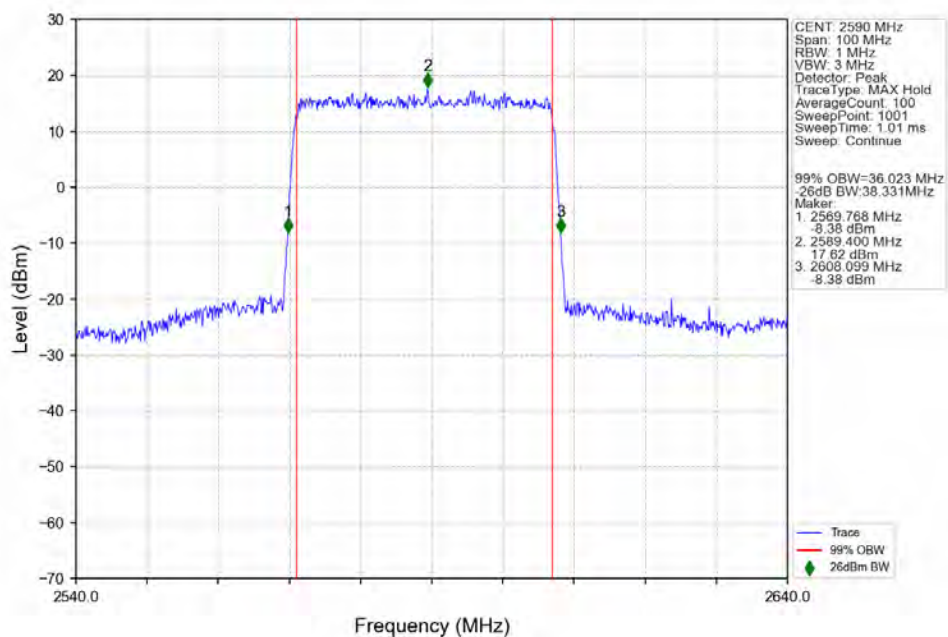
n38\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_2595MHz\_Outer\_Full\_Ant1



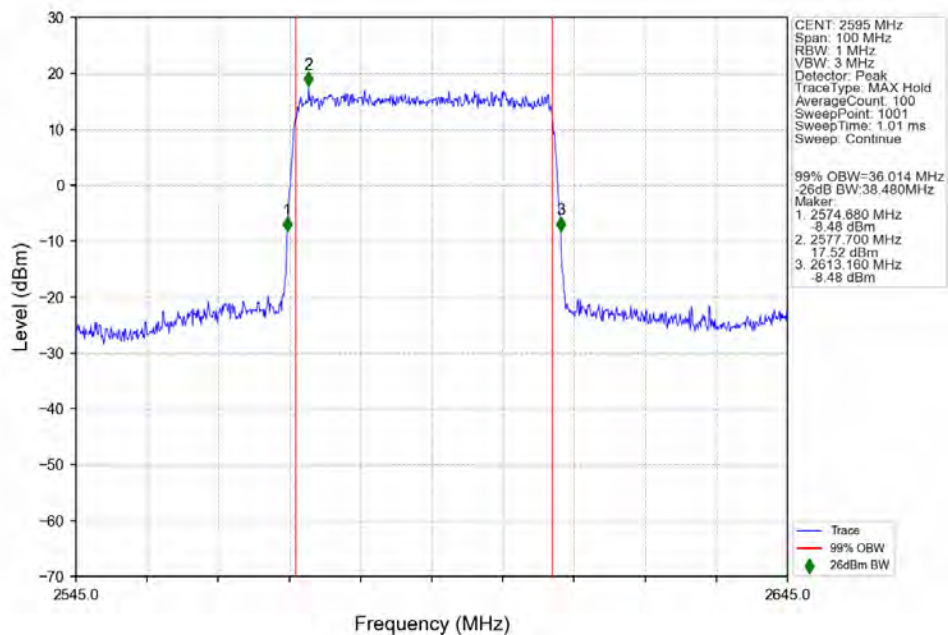
n38 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 2600MHz Outer Full Ant1



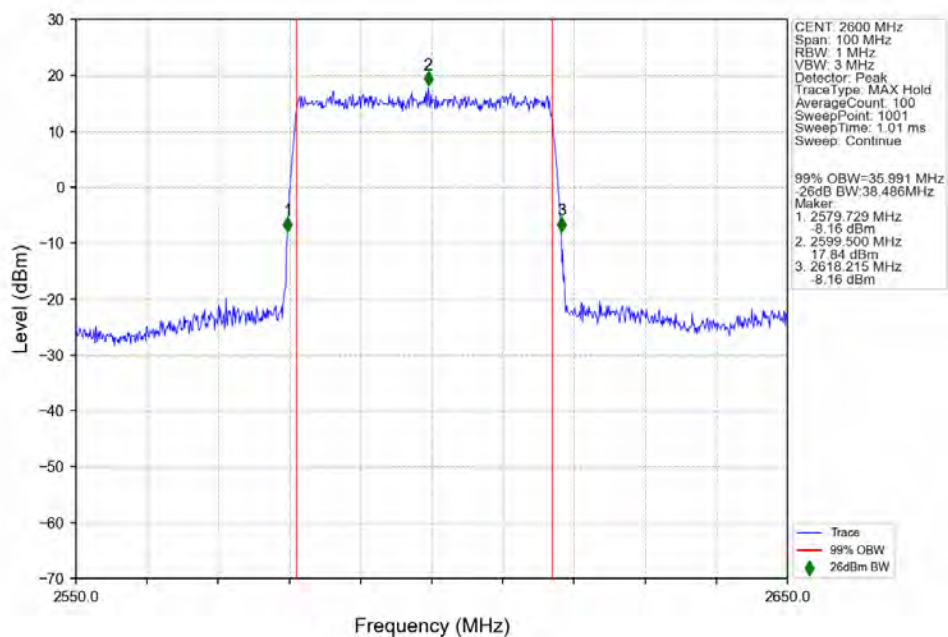
n38 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 2590MHz Outer Full Ant1



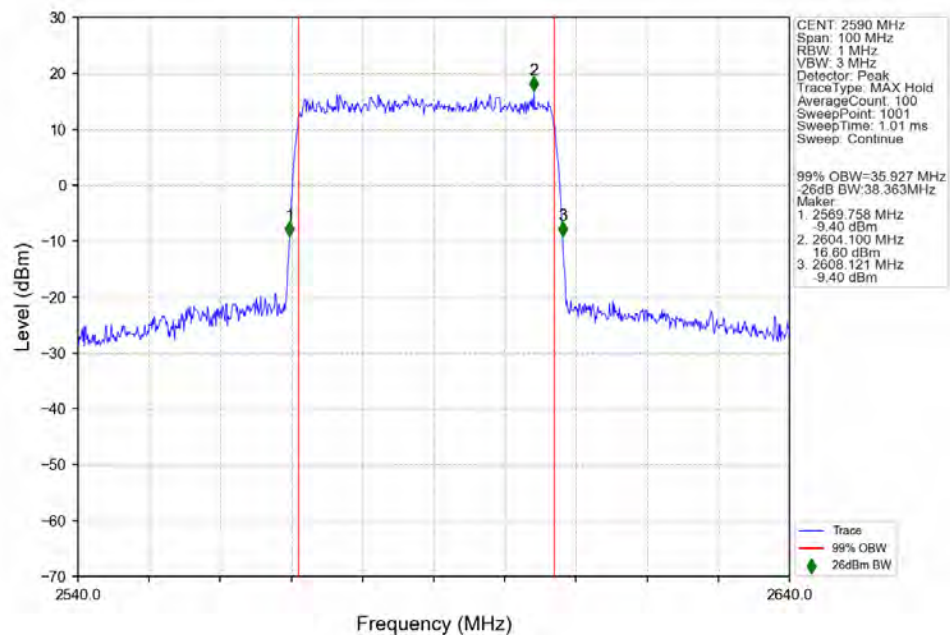
n38 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 2595MHz Outer Full Ant1



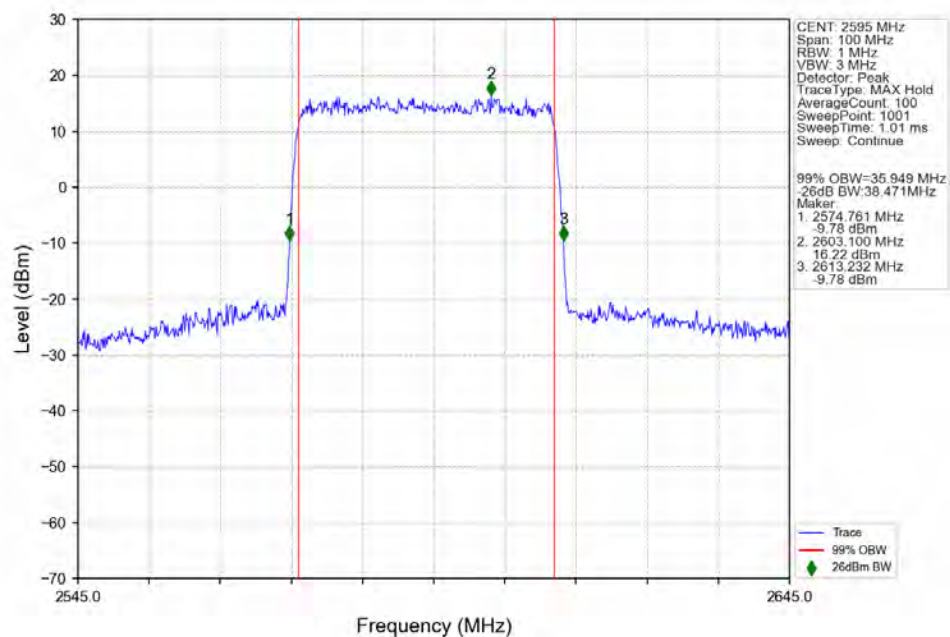
n38 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 2600MHz Outer Full Ant1



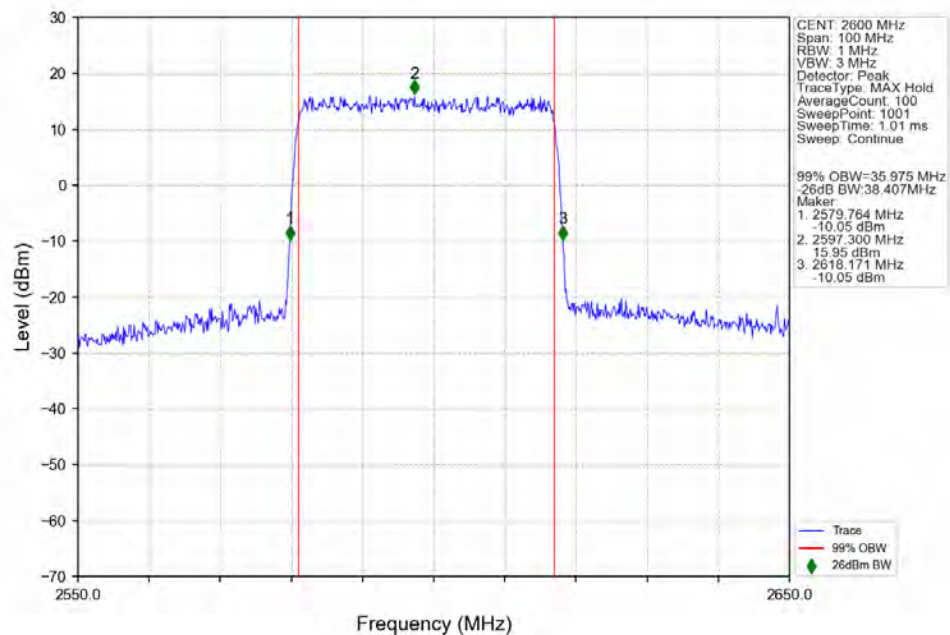
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 2590MHz Outer Full Ant1



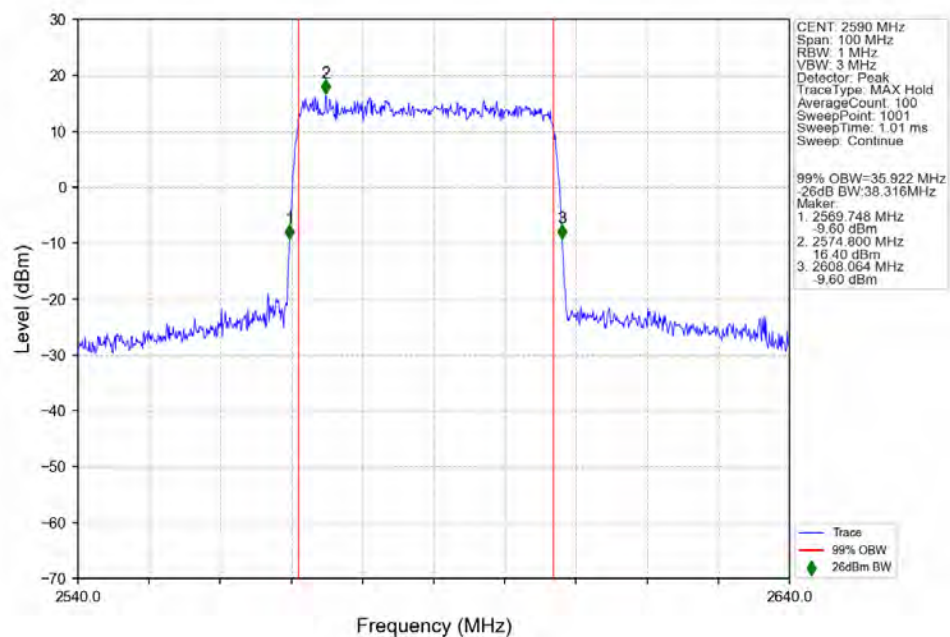
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 2595MHz Outer Full Ant1



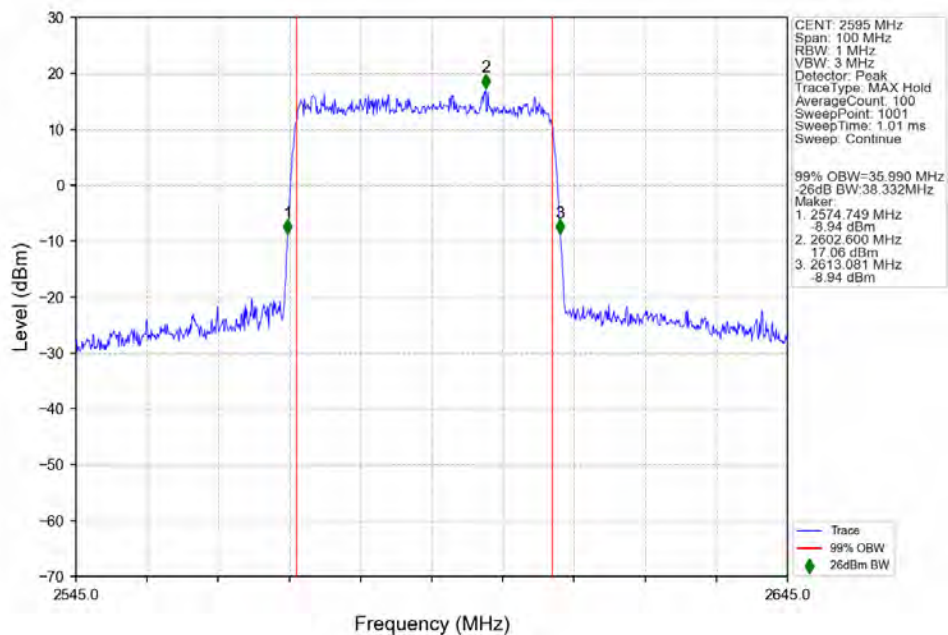
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 2600MHz Outer Full Ant1



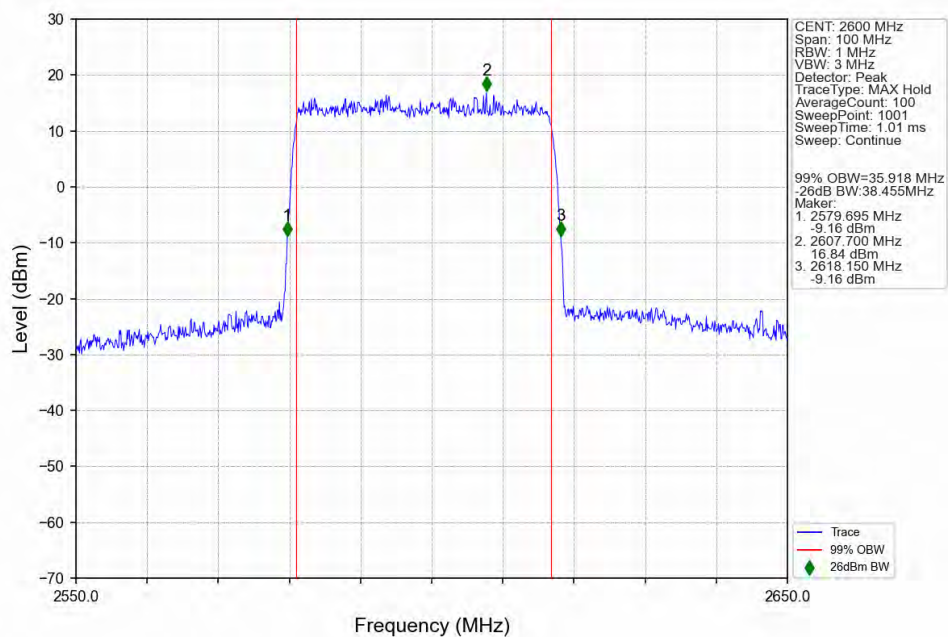
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 2590MHz Outer Full Ant1



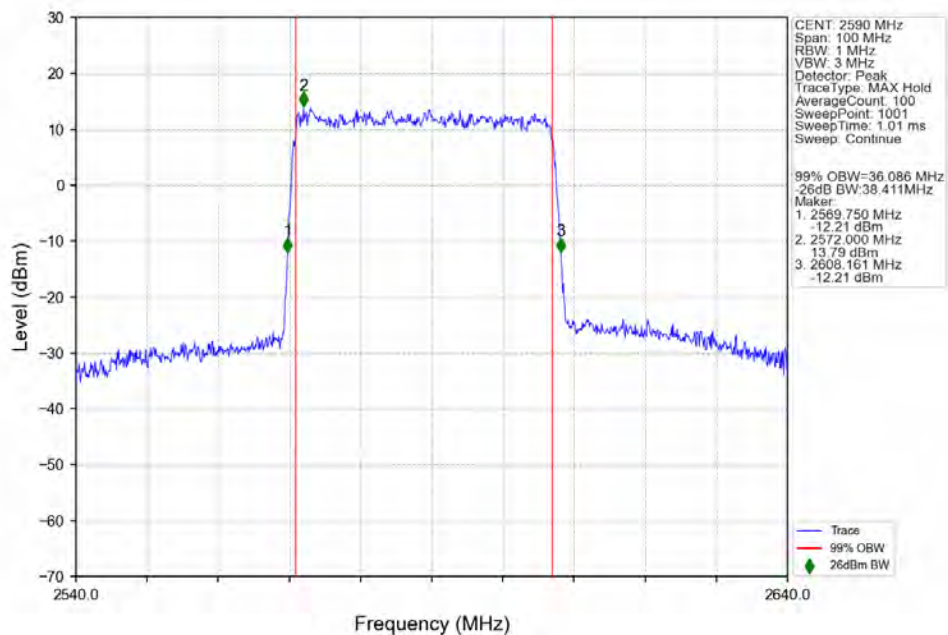
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 2595MHz Outer Full Ant1



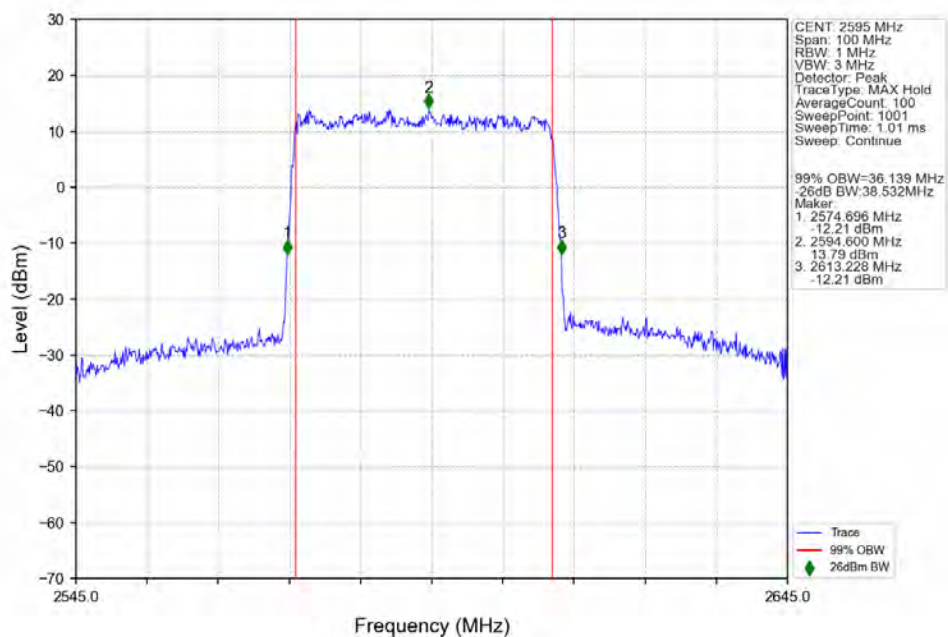
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 2600MHz Outer Full Ant1



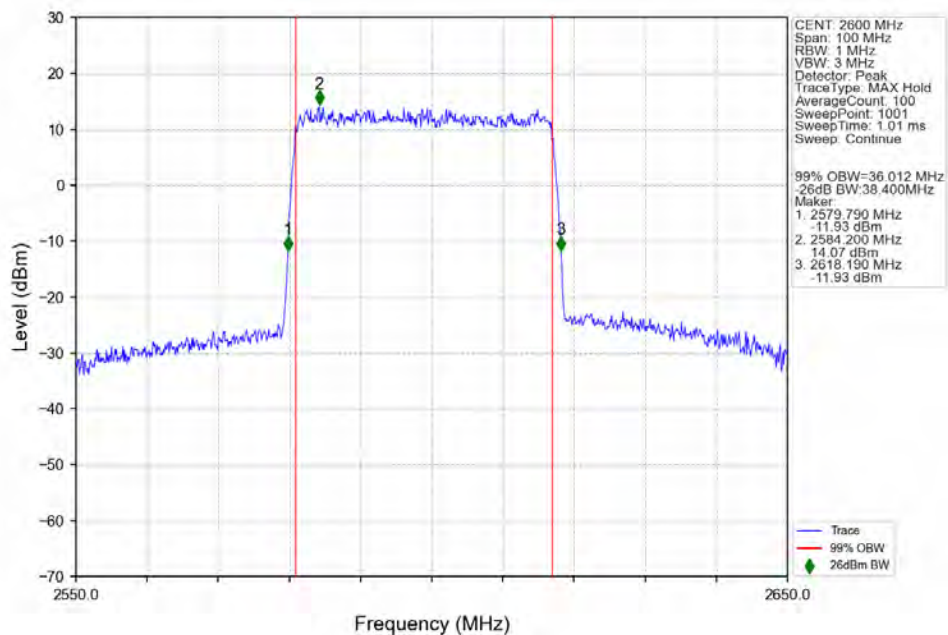
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 2590MHz Outer Full Ant1



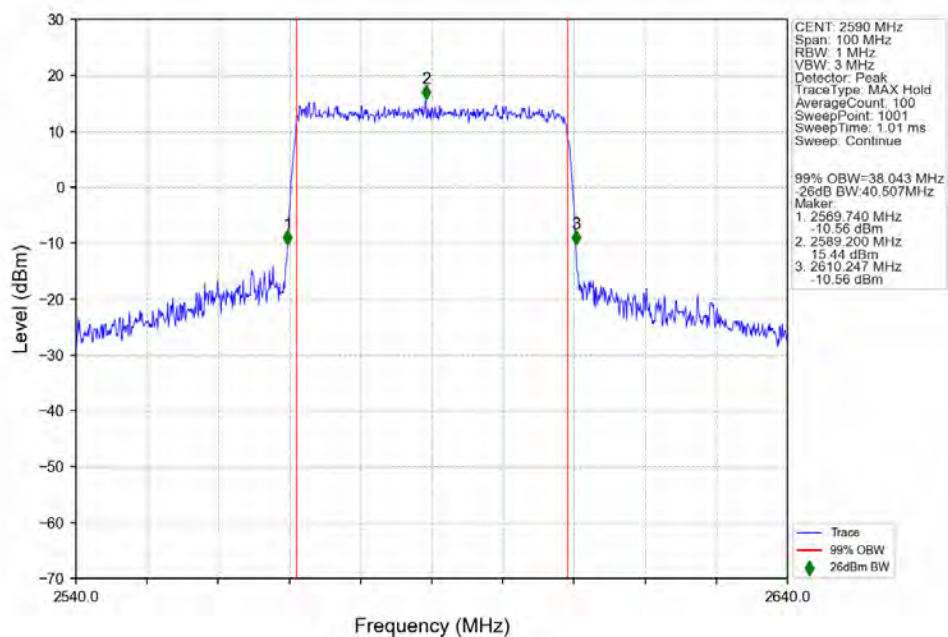
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 2595MHz Outer Full Ant1



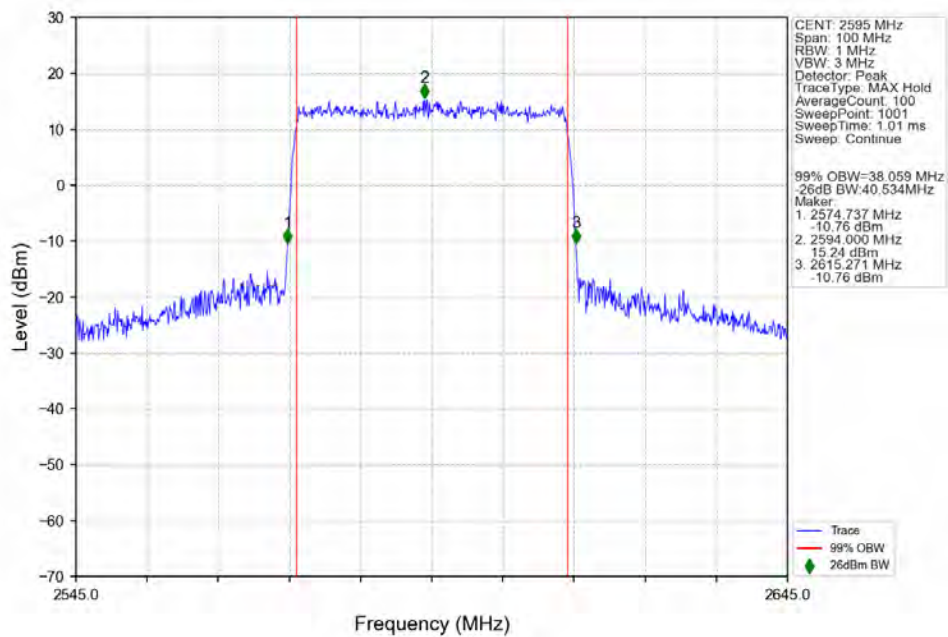
n38 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 2600MHz Outer Full Ant1



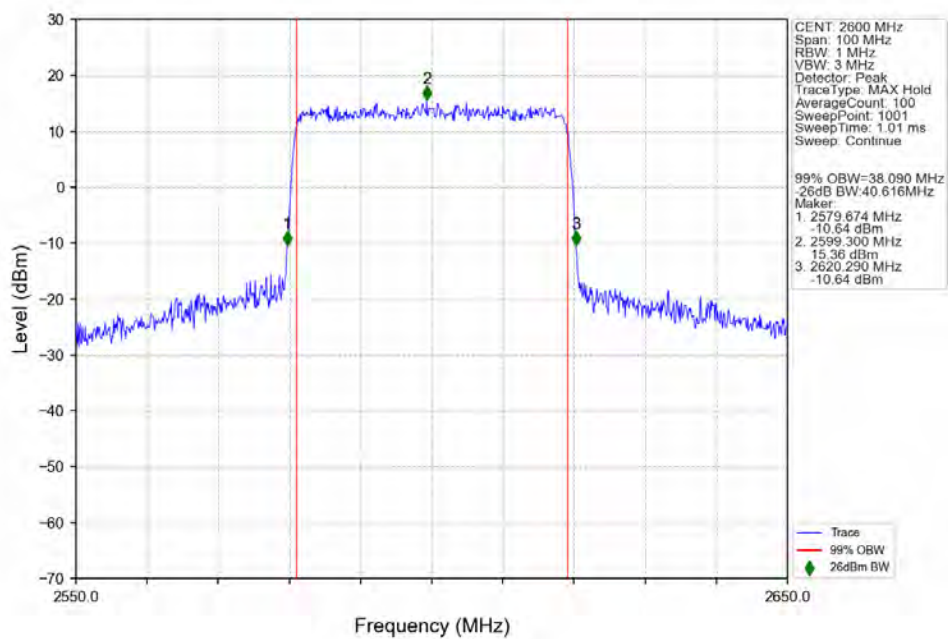
n38 30kHz SISO NTN 40MHz CP-OFDM QPSK 2590MHz Outer Full Ant1



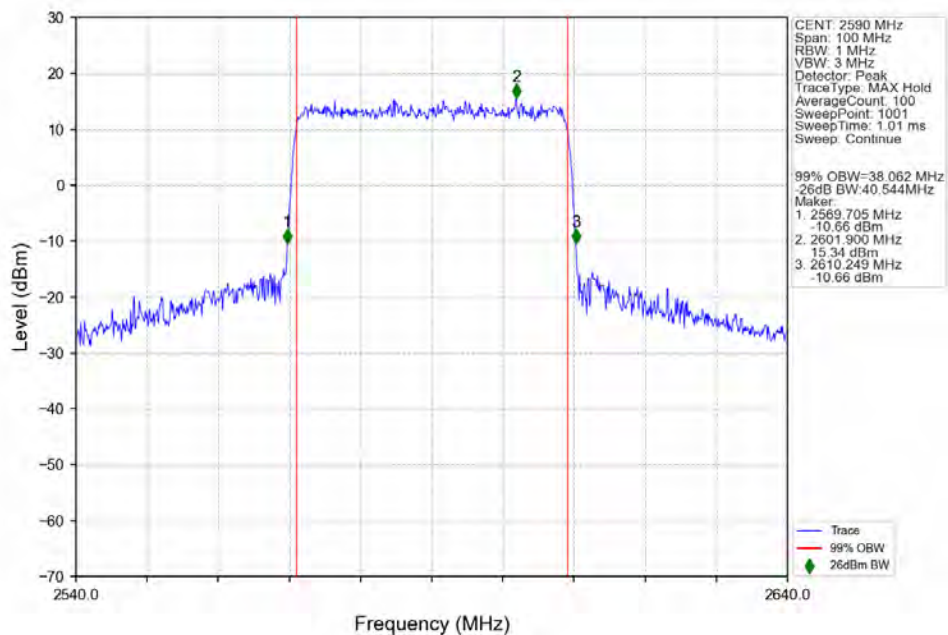
n38 30kHz SISO NTN 40MHz CP-OFDM QPSK 2595MHz Outer Full Ant1



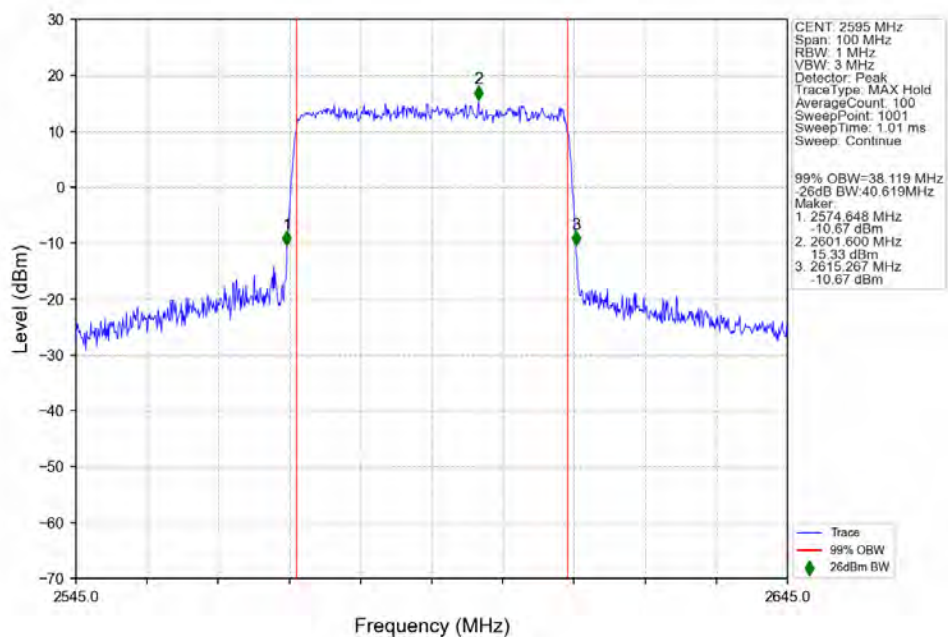
n38 30kHz SISO NTN 40MHz CP-OFDM QPSK 2600MHz Outer Full Ant1



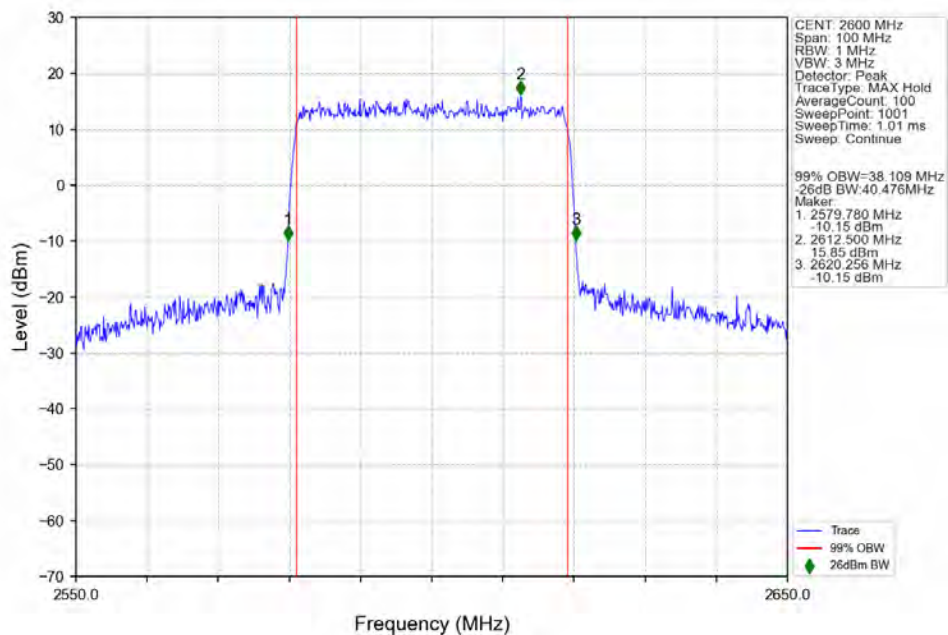
n38 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 2590MHz Outer Full Ant1



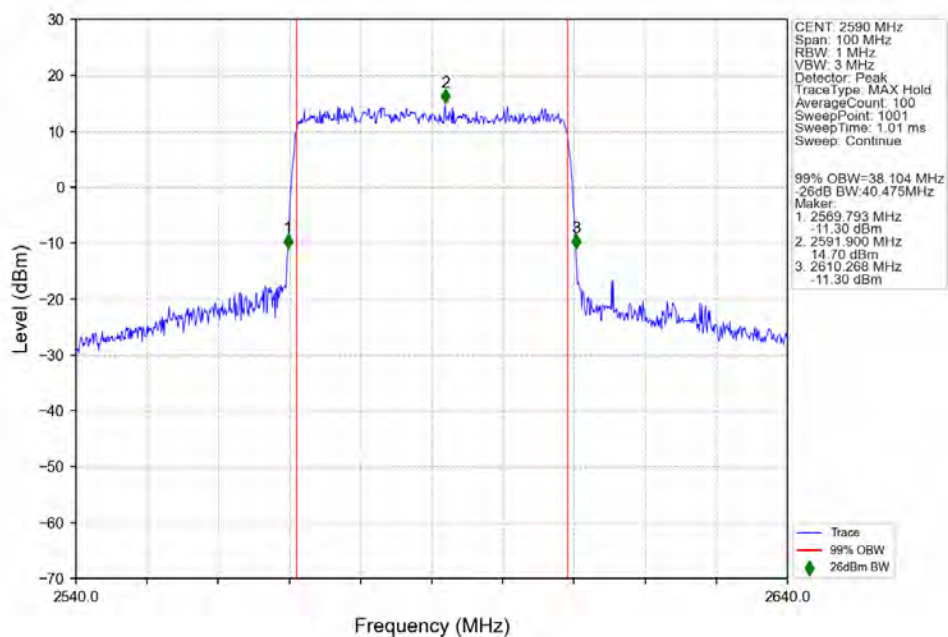
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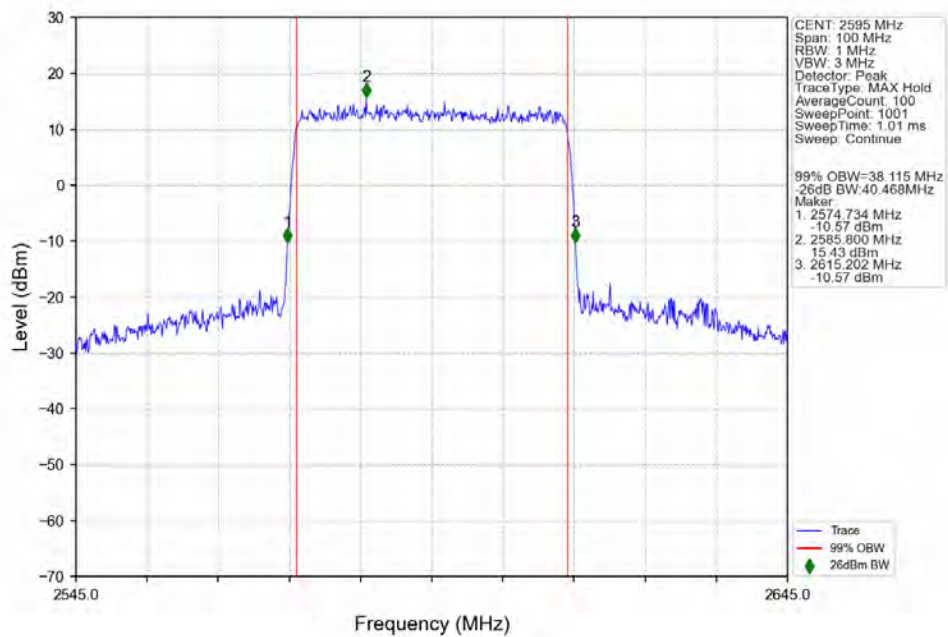
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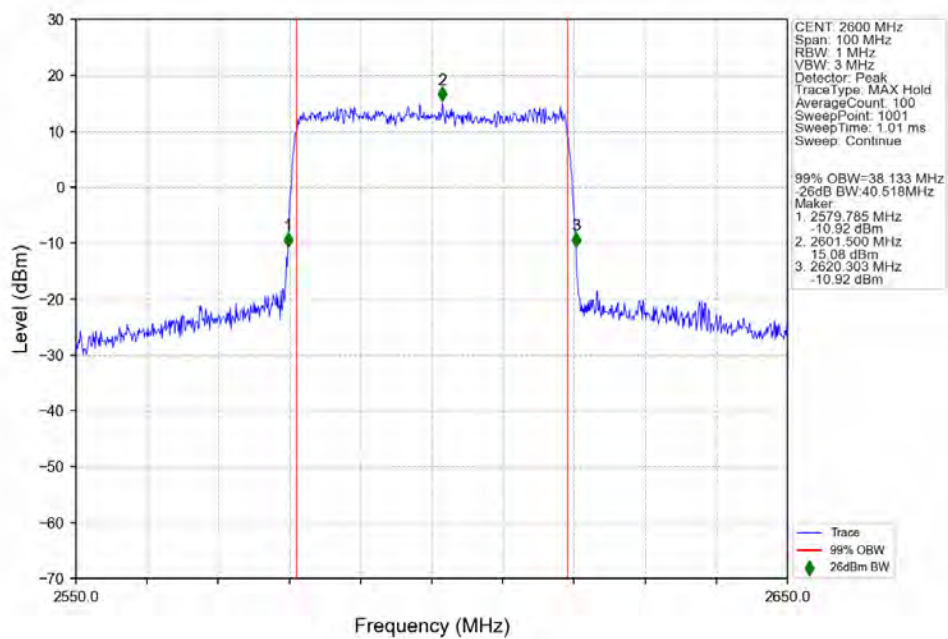
n38 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 2590MHz Outer Full Ant1



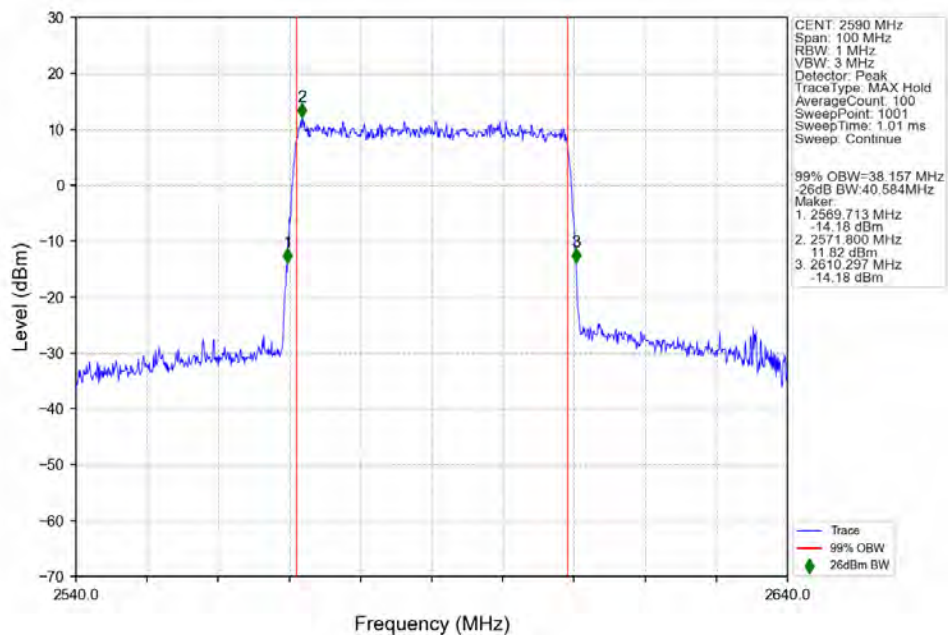
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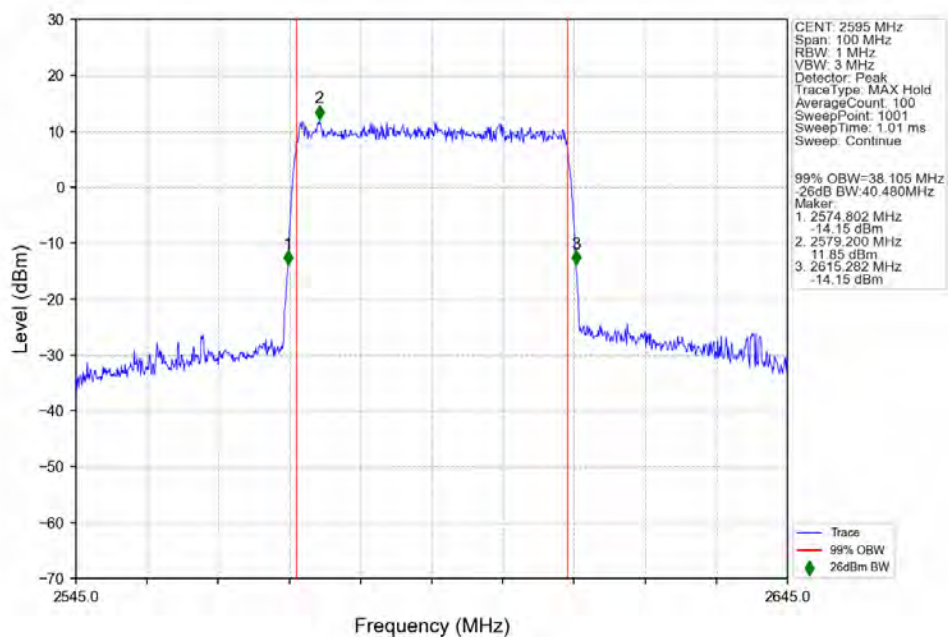
n38 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 2600MHz Outer Full Ant1



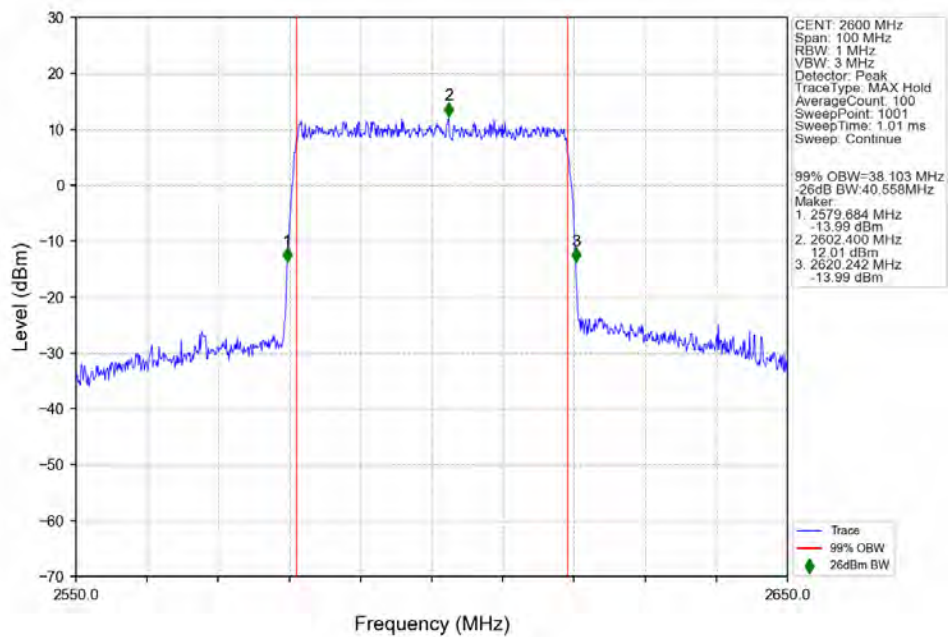
n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2590MHz Outer Full Ant1



n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2595MHz Outer Full Ant1



n38 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 2600MHz Outer Full Ant1



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 30k\_SISO\_10MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2575            | Outer_Full    | 9.54                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.56                    | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 9.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2575            | Outer_Full    | 10.08                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.06                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 10.06                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 2575            | Outer_Full    | 10.48                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.44                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 10.42                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 2575            | Outer_Full    | 10.60                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.52                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 10.52                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 2575            | Outer_Full    | 10.98                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.88                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 10.86                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 2575            | Outer_Full    | 11.18                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.10                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 11.08                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 2575            | Outer_Full    | 11.16                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.08                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 11.08                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 2575            | Outer_Full    | 11.30                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.24                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 11.22                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 2575            | Outer_Full    | 12.24                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 12.10                   | /    | /   | <=13  | Pass    |
|                                    | 2615            | Outer_Full    | 12.02                   | /    | /   | <=13  | Pass    |

#### 4.1.2 30k\_SISO\_15MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 15MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2577.5          | Outer_Full    | 9.50                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.54                    | /    | /   | <=13  | Pass    |
|                                    | 2612.5          | Outer_Full    | 9.52                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2577.5          | Outer_Full    | 9.68                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.68                    | /    | /   | <=13  | Pass    |
|                                    | 2612.5          | Outer_Full    | 9.66                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 2577.5          | Outer_Full    | 10.10                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.04                   | /    | /   | <=13  | Pass    |
|                                    | 2612.5          | Outer_Full    | 10.04                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 2577.5          | Outer_Full    | 10.20                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.14                   | /    | /   | <=13  | Pass    |
|                                    | 2612.5          | Outer_Full    | 10.14                   | /    | /   | <=13  | Pass    |

|                    |        |            |       |   |   |      |      |
|--------------------|--------|------------|-------|---|---|------|------|
| DFT-s-OFDM 256 QAM | 2577.5 | Outer_Full | 10.60 | / | / | <=13 | Pass |
|                    | 2595   | Outer_Full | 10.52 | / | / | <=13 | Pass |
|                    | 2612.5 | Outer_Full | 10.50 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 2577.5 | Outer_Full | 10.74 | / | / | <=13 | Pass |
|                    | 2595   | Outer_Full | 10.68 | / | / | <=13 | Pass |
|                    | 2612.5 | Outer_Full | 10.66 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 2577.5 | Outer_Full | 10.76 | / | / | <=13 | Pass |
|                    | 2595   | Outer_Full | 10.68 | / | / | <=13 | Pass |
|                    | 2612.5 | Outer_Full | 10.68 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 2577.5 | Outer_Full | 10.88 | / | / | <=13 | Pass |
|                    | 2595   | Outer_Full | 10.80 | / | / | <=13 | Pass |
|                    | 2612.5 | Outer_Full | 10.78 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 2577.5 | Outer_Full | 11.90 | / | / | <=13 | Pass |
|                    | 2595   | Outer_Full | 11.72 | / | / | <=13 | Pass |
|                    | 2612.5 | Outer_Full | 11.68 | / | / | <=13 | Pass |

## 4.1.3 30k\_SISO\_20MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 20MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2580            | Outer_Full    | 9.64                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.66                    | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 9.68                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2580            | Outer_Full    | 10.14                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.12                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 10.12                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 2580            | Outer_Full    | 10.54                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.50                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 10.50                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 2580            | Outer_Full    | 10.66                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.62                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 10.62                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 2580            | Outer_Full    | 10.96                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.90                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 10.88                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 2580            | Outer_Full    | 11.24                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.18                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 11.18                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 2580            | Outer_Full    | 11.28                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.22                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 11.20                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 2580            | Outer_Full    | 11.36                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.30                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 11.28                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 2580            | Outer_Full    | 12.16                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 12.06                   | /    | /   | <=13  | Pass    |
|                                    | 2610            | Outer_Full    | 12.02                   | /    | /   | <=13  | Pass    |

## 4.1.4 30k\_SISO\_25MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 25MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2582.5          | Outer_Full    | 9.86                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.88                    | /    | /   | <=13  | Pass    |

|                    |        |            |       |   |   |      |      |
|--------------------|--------|------------|-------|---|---|------|------|
|                    | 2607.5 | Outer Full | 9.92  | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK    | 2582.5 | Outer Full | 10.10 | / | / | <=13 | Pass |
|                    | 2595   | Outer Full | 10.10 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 10.10 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 10.52 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM  | 2595   | Outer Full | 10.50 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 10.50 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 10.60 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM  | 2595   | Outer Full | 10.56 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 10.56 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 10.88 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 2595   | Outer Full | 10.84 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 10.82 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 11.18 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 2595   | Outer Full | 11.18 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 11.16 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 11.20 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 2595   | Outer Full | 11.18 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 11.18 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 11.32 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 2595   | Outer Full | 11.32 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 11.30 | / | / | <=13 | Pass |
|                    | 2582.5 | Outer Full | 12.16 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 2595   | Outer Full | 12.06 | / | / | <=13 | Pass |
|                    | 2607.5 | Outer Full | 11.96 | / | / | <=13 | Pass |

## 4.1.5 30k\_SISO\_30MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 30MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2585            | Outer Full    | 9.92                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 9.94                    | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 9.92                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2585            | Outer Full    | 10.20                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 10.20                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 10.22                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 2585            | Outer Full    | 10.54                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 10.50                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 10.50                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 2585            | Outer Full    | 10.60                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 10.58                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 10.58                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 2585            | Outer Full    | 10.86                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 10.82                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 10.80                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 2585            | Outer Full    | 11.16                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 11.14                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 11.12                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 2585            | Outer Full    | 11.18                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 11.14                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 11.14                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 2585            | Outer Full    | 11.28                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 11.24                   | /    | /   | <=13  | Pass    |
|                                    | 2605            | Outer Full    | 11.22                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 2585            | Outer Full    | 12.06                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer Full    | 11.98                   | /    | /   | <=13  | Pass    |

|  |      |            |       |   |   |      |      |
|--|------|------------|-------|---|---|------|------|
|  | 2605 | Outer_Full | 11.94 | / | / | <=13 | Pass |
|--|------|------------|-------|---|---|------|------|

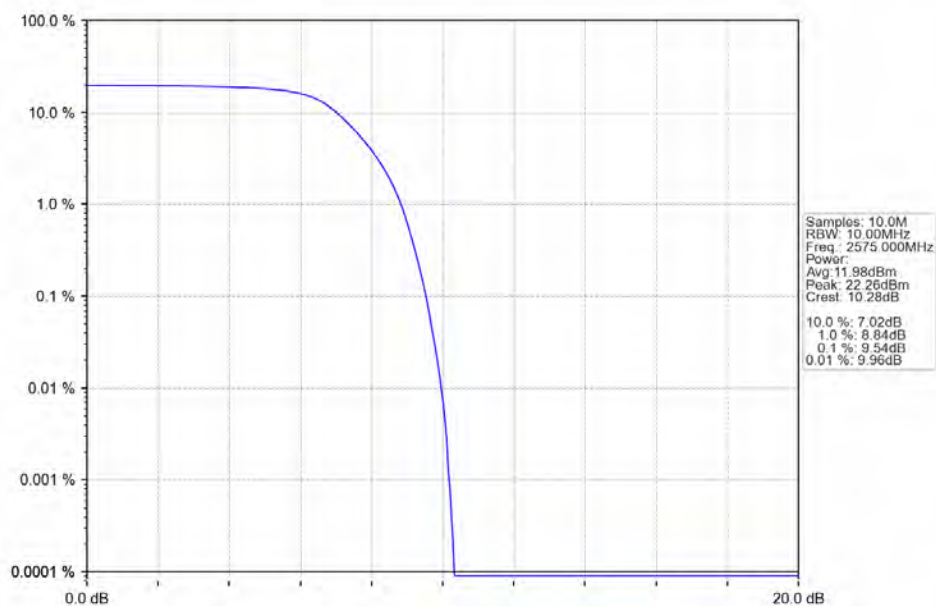
## 4.1.6 30k\_SISO\_40MHz\_NTNV

| 5G NR n38 SCS=30kHz SISO 40MHz NTN |                 |               |                         |      |     |       |         |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                    |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK               | 2590            | Outer_Full    | 9.78                    | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 9.78                    | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 9.80                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                    | 2590            | Outer_Full    | 10.58                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.56                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 10.56                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                  | 2590            | Outer_Full    | 10.98                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 10.96                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 10.96                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                  | 2590            | Outer_Full    | 11.04                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.04                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 11.04                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                 | 2590            | Outer_Full    | 11.30                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.28                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 11.26                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                       | 2590            | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                     | 2590            | Outer_Full    | 11.72                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 11.70                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                     | 2590            | Outer_Full    | 11.80                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 11.80                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 11.80                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                    | 2590            | Outer_Full    | 12.46                   | /    | /   | <=13  | Pass    |
|                                    | 2595            | Outer_Full    | 12.46                   | /    | /   | <=13  | Pass    |
|                                    | 2600            | Outer_Full    | 12.44                   | /    | /   | <=13  | Pass    |

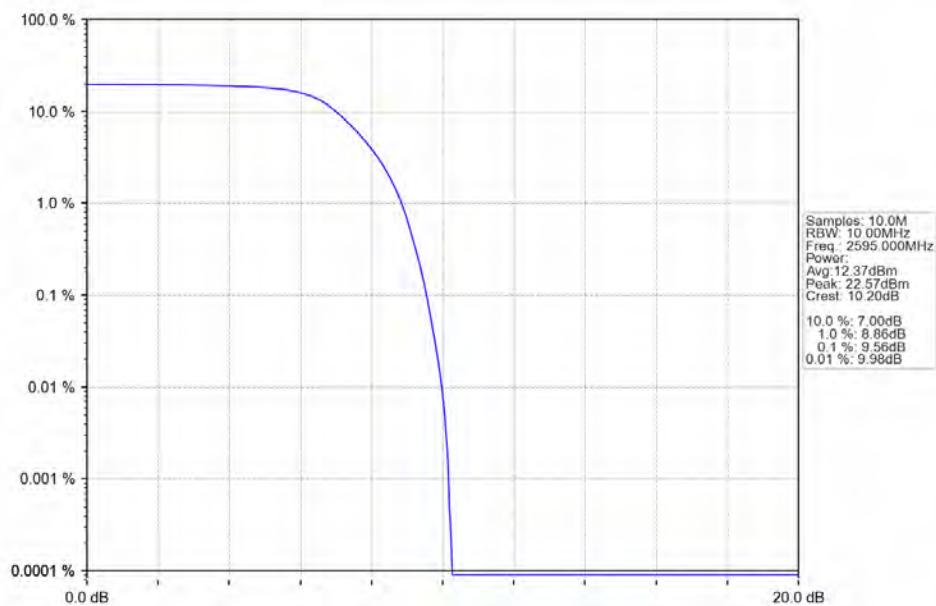
## 4.2 Test Graph

### 4.2.1 30k\_SISO\_10MHz\_NTNV

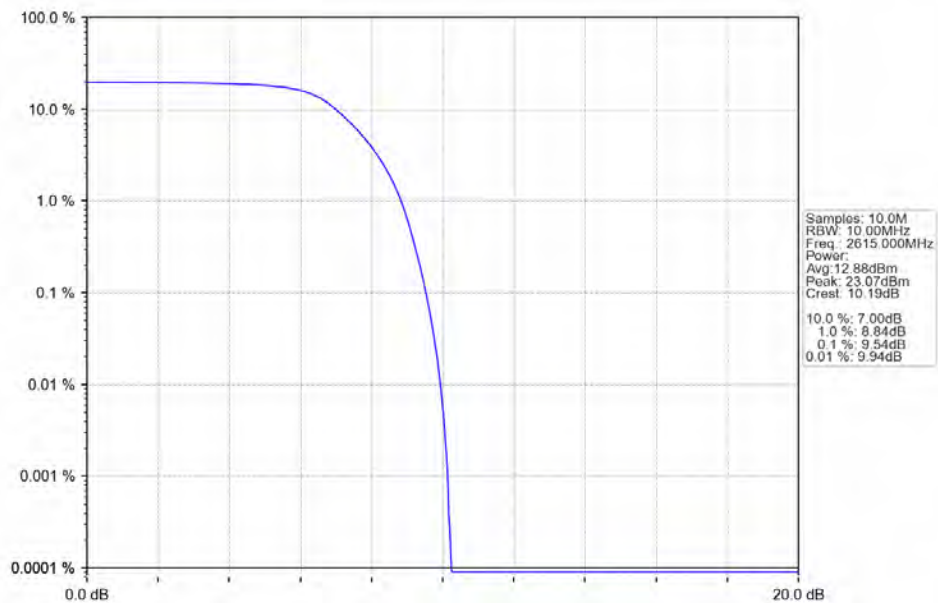
n38\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_PI/2\_BPSK\_2575MHz\_Outer\_Full\_Ant1



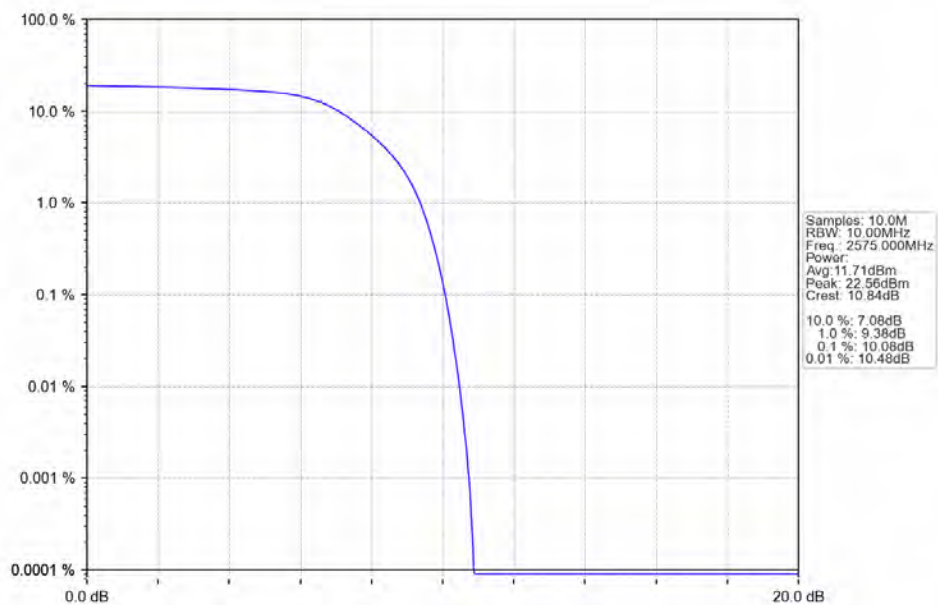
n38\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_PI/2\_BPSK\_2595MHz\_Outer\_Full\_Ant1



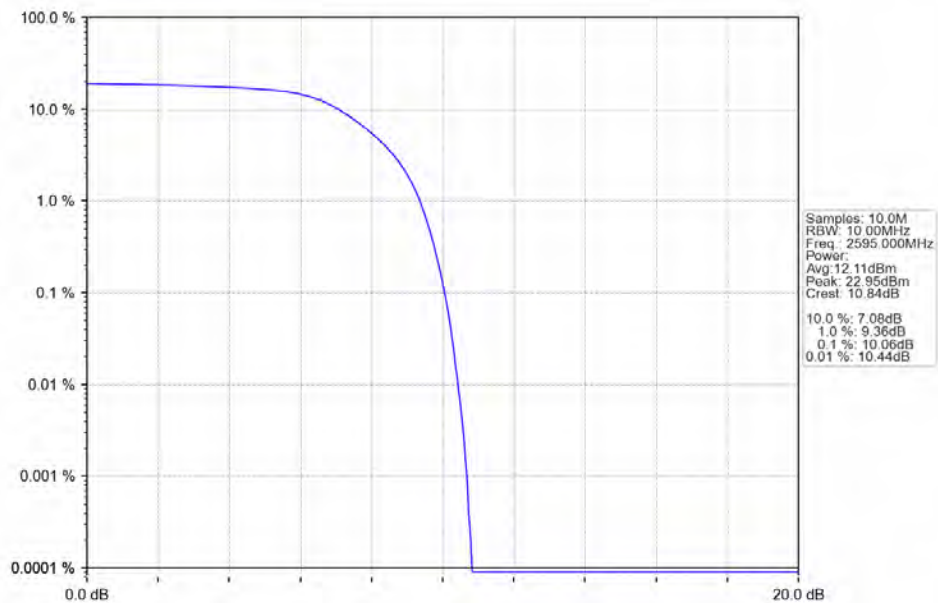
n38 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 2615MHz Outer Full Ant1



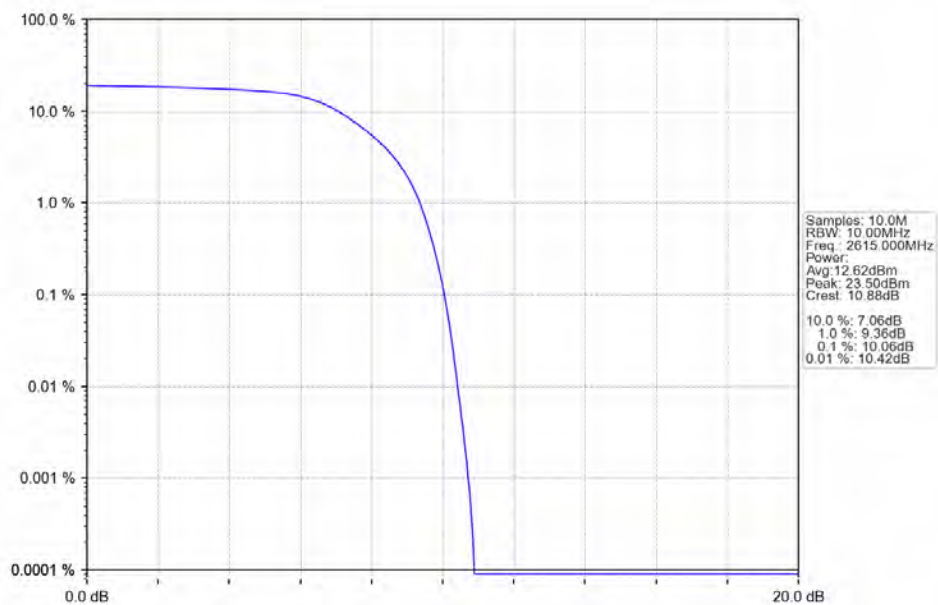
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2575MHz Outer Full Ant1



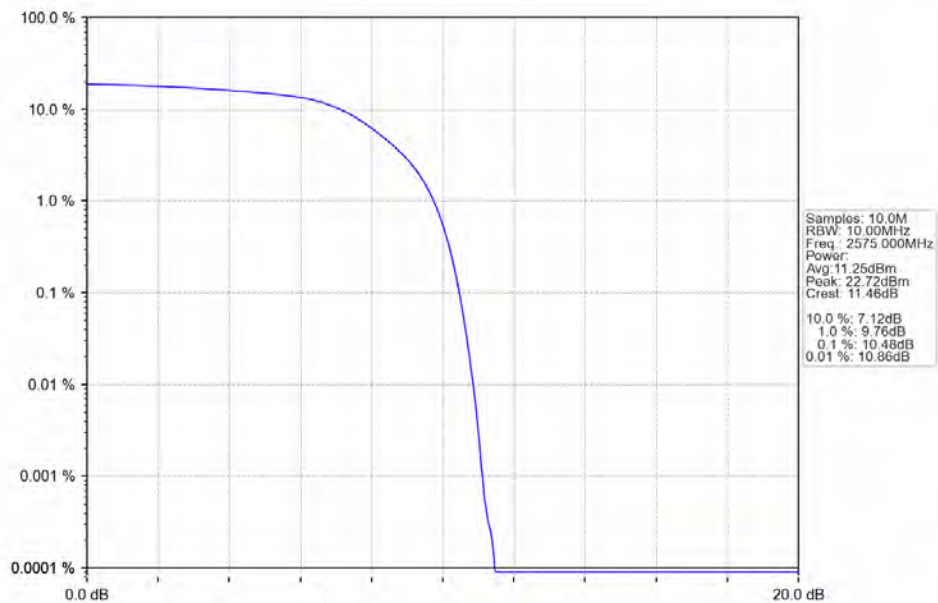
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2595MHz Outer Full Ant1



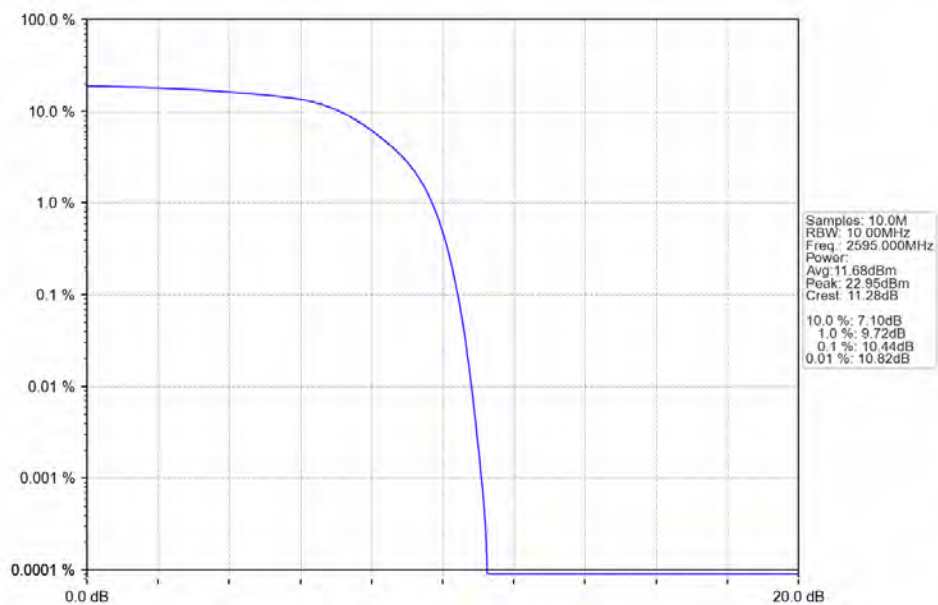
n38 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 2615MHz Outer Full Ant1



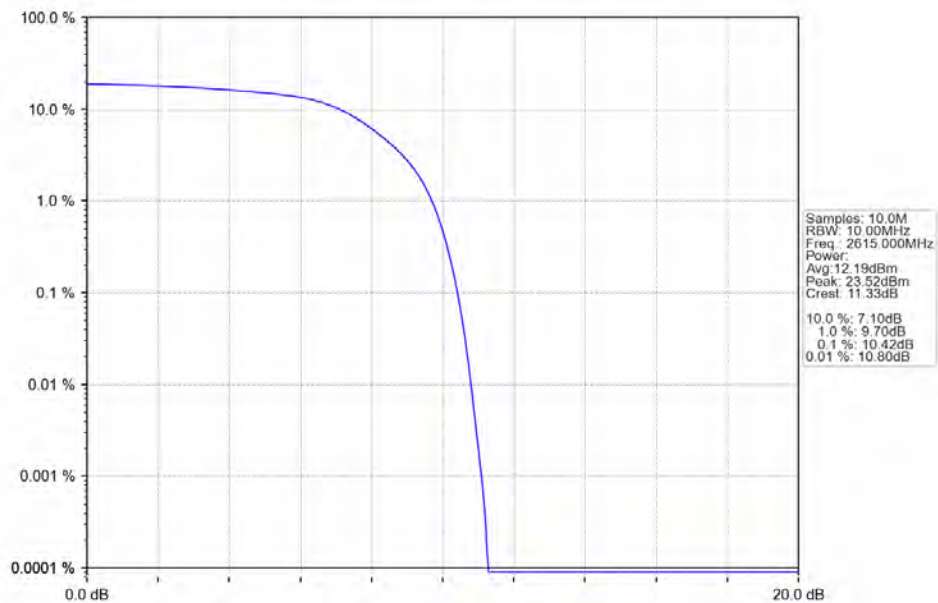
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2575MHz Outer Full Ant1



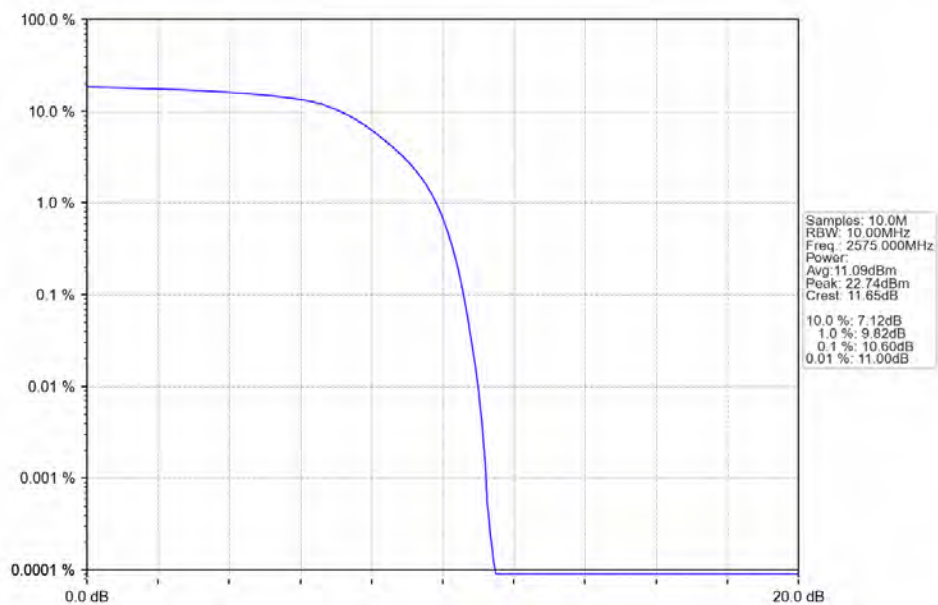
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2595MHz Outer Full Ant1



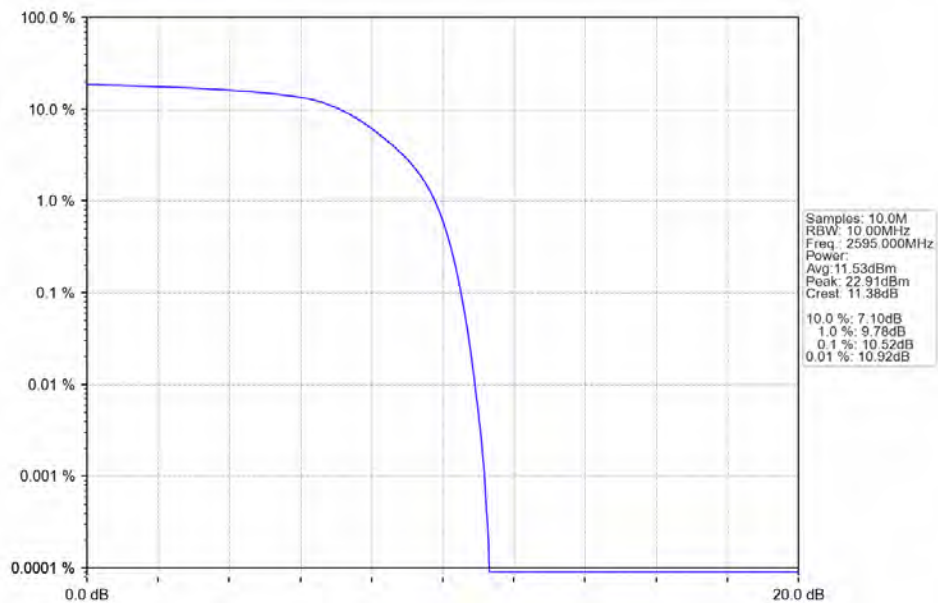
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 2615MHz Outer Full Ant1



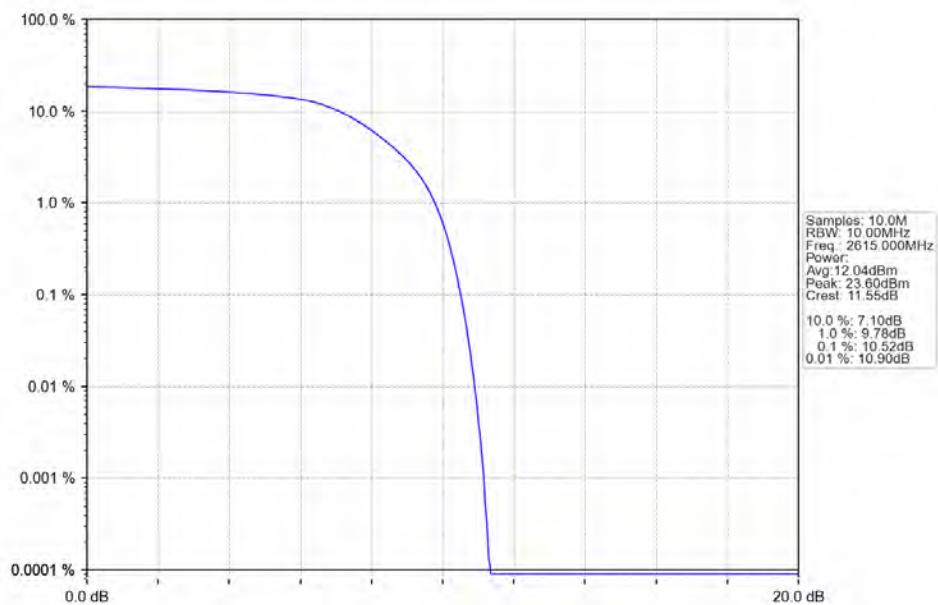
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2575MHz Outer Full Ant1



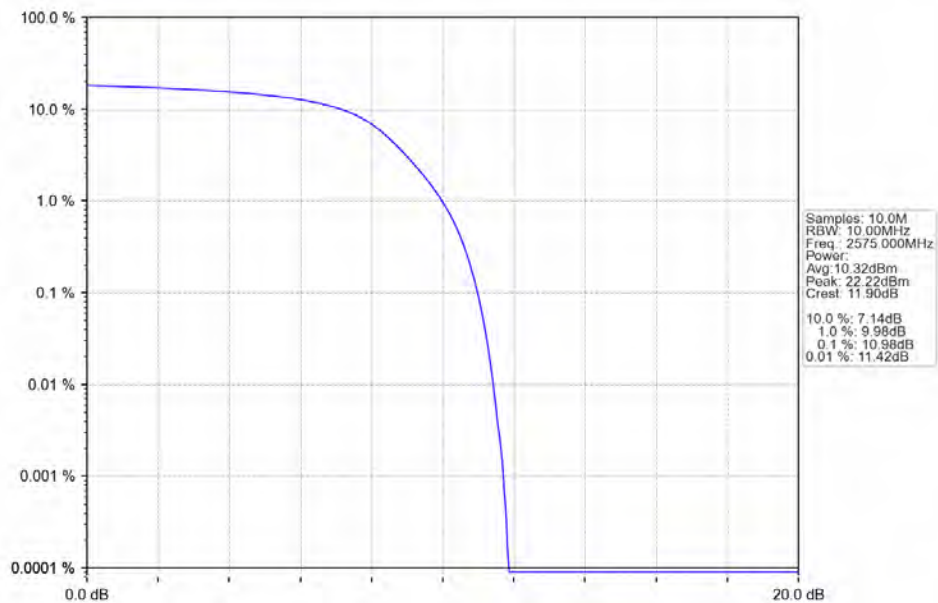
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2595MHz Outer Full Ant1



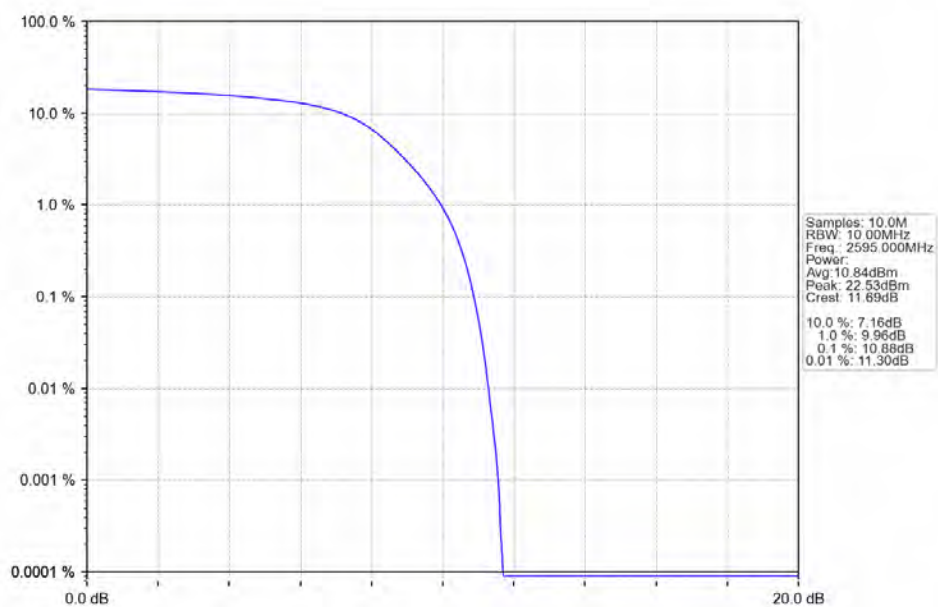
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 2615MHz Outer Full Ant1



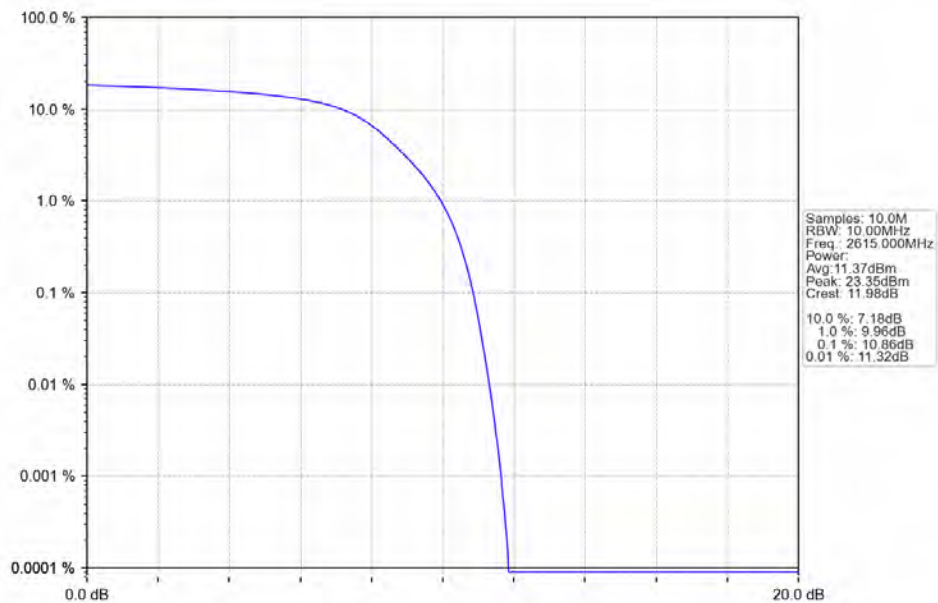
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2575MHz Outer Full Ant1



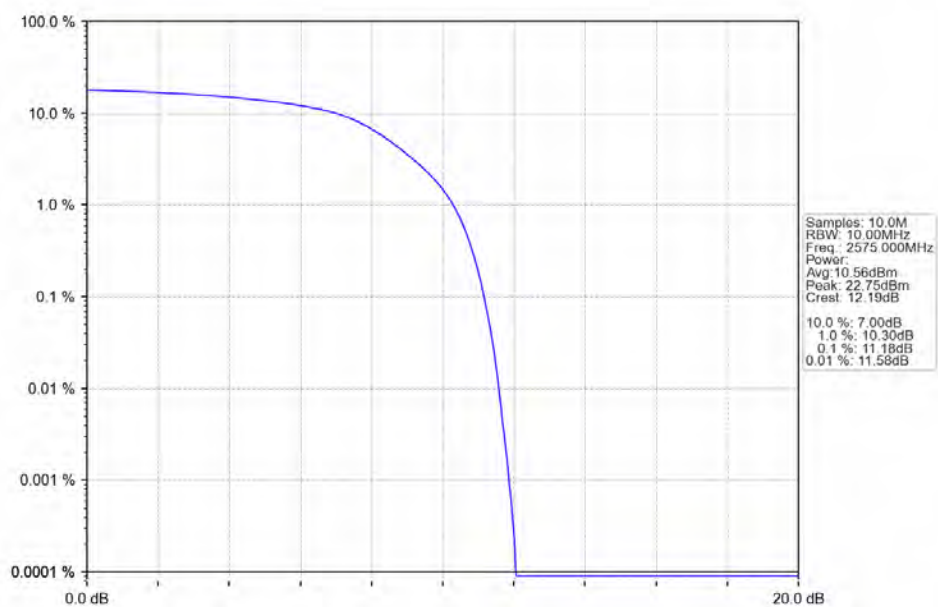
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2595MHz Outer Full Ant1



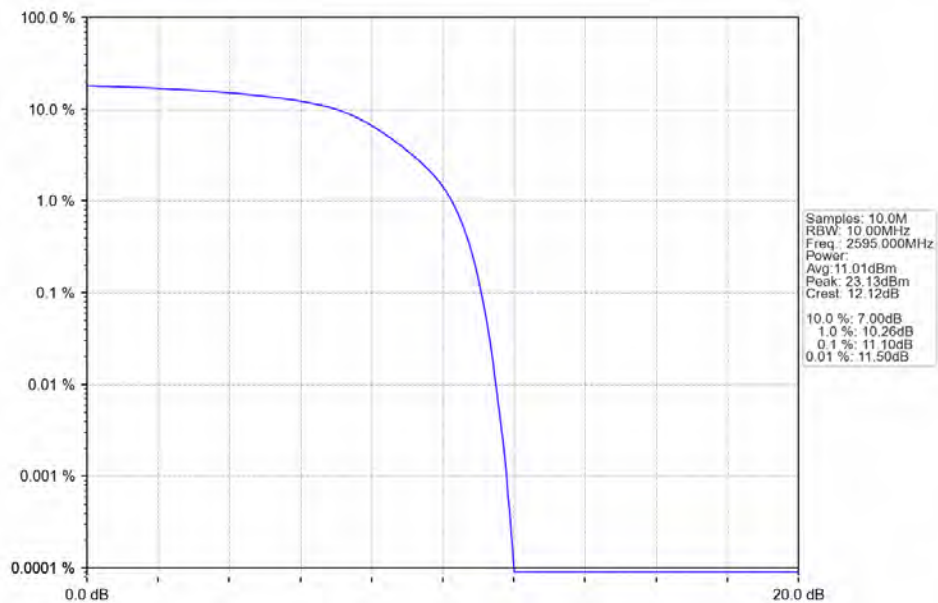
n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2615MHz Outer Full Ant1



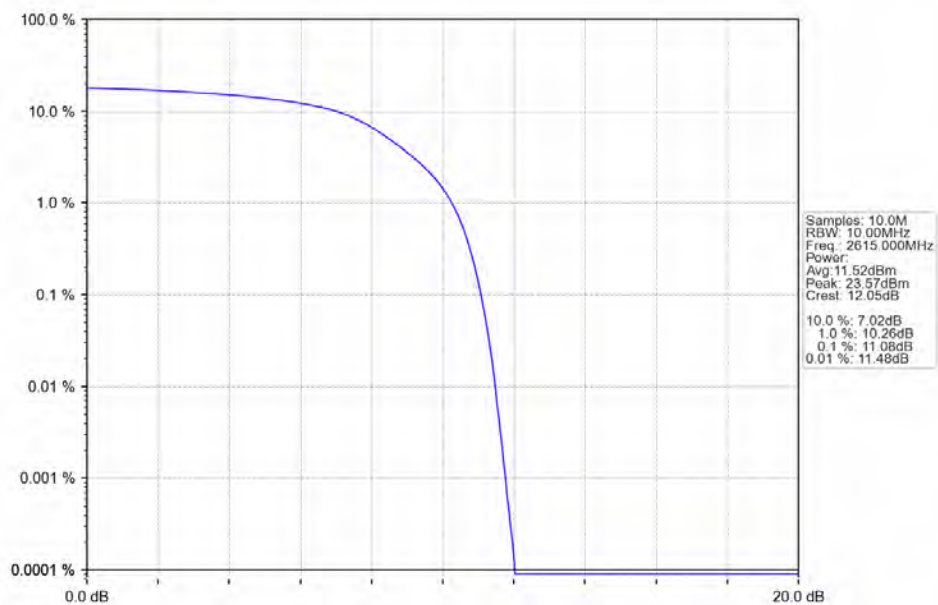
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2575MHz Outer Full Ant1



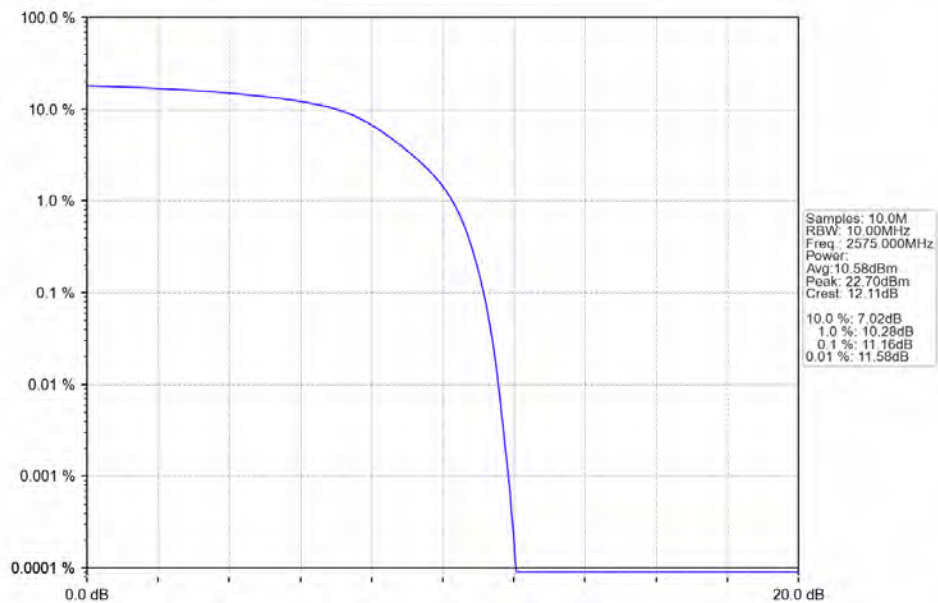
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2595MHz Outer Full Ant1



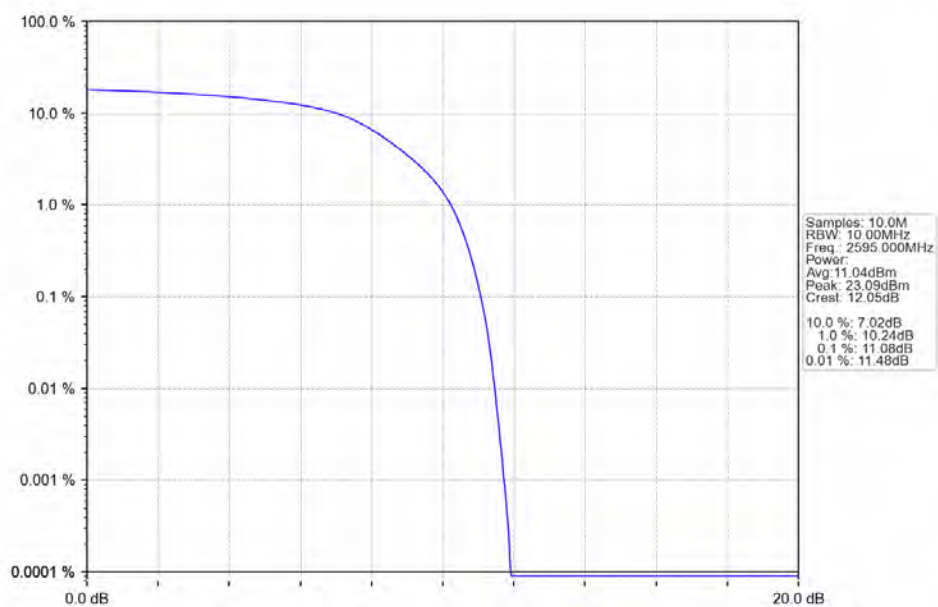
n38 30kHz SISO NTN 10MHz CP-OFDM QPSK 2615MHz Outer Full Ant1



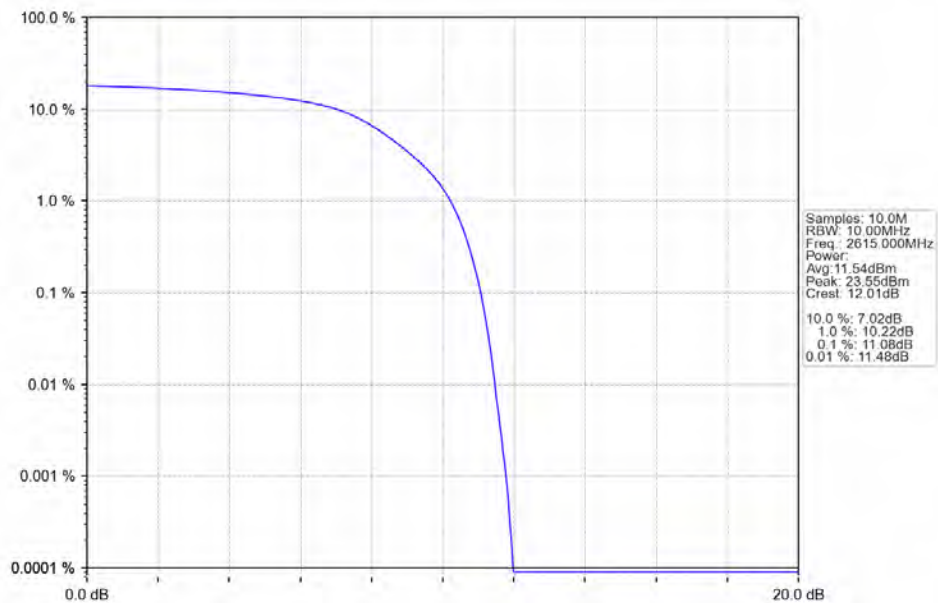
n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2575MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2595MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 2615MHz Outer Full Ant1



n38 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 2575MHz Outer Full Ant1

