



# Appendix B.17

LTE Band 41



# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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## 1. Frequency Stability

### 1.1 B41\_5MHz

#### 1.1.1 Test Result

| Band: 41 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2498.5          | 25            | 0      | 20         | 3.8           | -19.768          | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.0           | -19.547          | -0.0078               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -18.930          | -0.0076               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 4.0           | -16.599          | -0.0066               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 4.0           | -16.141          | -0.0065               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 4.0           | -12.634          | -0.0051               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 4.0           | -17.182          | -0.0069               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 4.0           | -7.833           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 4.0           | -6.021           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 4.0           | -14.440          | -0.0058               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 4.0           | -5.213           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            | 2593            | 25            | 0      | 20         | 3.8           | -14.047          | -0.0054               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.0           | -15.394          | -0.0059               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -14.417          | -0.0056               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 4.0           | -4.488           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 4.0           | -10.505          | -0.0041               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 4.0           | -14.228          | -0.0055               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 4.0           | -16.293          | -0.0063               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 4.0           | -17.898          | -0.0069               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 4.0           | -13.530          | -0.0052               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 4.0           | -12.264          | -0.0047               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 4.0           | -13.535          | -0.0052               | -2.5 to 2.5 | Pass    |
|                            | 2687.5          | 25            | 0      | 20         | 3.8           | -20.656          | -0.0077               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.0           | -29.889          | -0.0111               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -28.620          | -0.0106               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 4.0           | -24.105          | -0.0090               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 4.0           | -17.818          | -0.0066               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 4.0           | -16.584          | -0.0062               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 4.0           | -24.987          | -0.0093               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 4.0           | -25.322          | -0.0094               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 4.0           | -23.792          | -0.0089               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 4.0           | -23.474          | -0.0087               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 4.0           | -19.956          | -0.0074               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 2498.5          | 25            | 0      | 20         | 3.8           | -13.523          | -0.0054               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.0           | -16.876          | -0.0068               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -14.819          | -0.0059               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 4.0           | -8.029           | -0.0032               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 4.0           | -8.625           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 4.0           | -8.539           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 4.0           | -17.116          | -0.0069               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 4.0           | -16.536          | -0.0066               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 4.0           | -13.538          | -0.0054               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 4.0           | -8.975           | -0.0036               | -2.5 to 2.5 | Pass    |



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|-------|--------|----|---|-----|-----|---------|---------|-------------|------|
|       | 2593   | 25 | 0 | 50  | 4.0 | -11.442 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.8 | -20.325 | -0.0078 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -5.579  | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -15.589 | -0.0060 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -11.741 | -0.0045 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -19.234 | -0.0074 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -14.036 | -0.0054 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -17.684 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -15.122 | -0.0058 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -11.344 | -0.0044 | -2.5 to 2.5 | Pass |
|       | 2687.5 | 25 | 0 | 40  | 4.0 | -7.128  | -0.0027 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -23.520 | -0.0091 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.8 | -24.936 | -0.0093 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -27.480 | -0.0102 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -26.745 | -0.0100 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -23.002 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -32.213 | -0.0120 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -21.230 | -0.0079 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -25.988 | -0.0097 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -31.679 | -0.0118 | -2.5 to 2.5 | Pass |
| 64QAM | 2498.5 | 25 | 0 | 30  | 4.0 | -28.427 | -0.0106 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -21.166 | -0.0079 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -31.296 | -0.0116 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.8 | -9.942  | -0.0040 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -9.417  | -0.0038 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -15.317 | -0.0061 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -5.627  | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -12.796 | -0.0051 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -8.983  | -0.0036 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -10.997 | -0.0044 | -2.5 to 2.5 | Pass |
|       | 2593   | 25 | 0 | 10  | 4.0 | -4.492  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -3.562  | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -18.828 | -0.0075 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -12.313 | -0.0049 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.8 | -18.056 | -0.0070 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -8.600  | -0.0033 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -12.974 | -0.0050 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -22.388 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -17.559 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -18.778 | -0.0072 | -2.5 to 2.5 | Pass |
|       | 2687.5 | 25 | 0 | 0   | 4.0 | -7.242  | -0.0028 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -4.097  | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -18.295 | -0.0071 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -12.005 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -7.557  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.8 | -14.975 | -0.0056 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -31.277 | -0.0116 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -26.432 | -0.0098 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -30.098 | -0.0112 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -28.075 | -0.0104 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -23.641 | -0.0088 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -29.762 | -0.0111 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -19.458 | -0.0072 | -2.5 to 2.5 | Pass |



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|  |  |  |  | 30 | 4.0 | -23.064 | -0.0086 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 4.0 | -33.366 | -0.0124 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 4.0 | -19.815 | -0.0074 | -2.5 to 2.5 | Pass |



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## 1.2 B41\_10MHz

### 1.2.1 Test Result

| Band: 41 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2501            | 50            | 0      | 20         | 3.8           | -15.248          | -0.0061               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -21.130          | -0.0084               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -16.902          | -0.0068               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -7.682           | -0.0031               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -4.443           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -14.321          | -0.0057               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -14.081          | -0.0056               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -14.981          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -8.314           | -0.0033               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -4.589           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -7.506           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 50            | 0      | 20         | 3.8           | -16.581          | -0.0064               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -9.255           | -0.0036               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -13.628          | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -18.026          | -0.0070               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -7.329           | -0.0028               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -7.556           | -0.0029               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -15.547          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -20.277          | -0.0078               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -11.199          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -15.333          | -0.0059               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -16.951          | -0.0065               | -2.5 to 2.5 | Pass    |
|                             | 2685            | 50            | 0      | 20         | 3.8           | -9.570           | -0.0036               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -13.108          | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -20.402          | -0.0076               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -16.691          | -0.0062               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -11.515          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -7.780           | -0.0029               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -15.252          | -0.0057               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -4.731           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -16.647          | -0.0062               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -10.914          | -0.0041               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2501            | 50            | 0      | 20         | 3.8           | -15.749          | -0.0063               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -11.123          | -0.0044               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -12.179          | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -11.541          | -0.0046               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -14.888          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -5.646           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -9.227           | -0.0037               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -10.329          | -0.0041               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -7.389           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -13.079          | -0.0052               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -22.606          | -0.0090               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 50            | 0      | 20         | 3.8           | -16.310          | -0.0063               | -2.5 to 2.5 | Pass    |



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|       |      |    |   |     | 4.0 | -14.275 | -0.0055 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.2 | -18.801 | -0.0073 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 4.0 | -15.008 | -0.0058 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 4.0 | -13.829 | -0.0053 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 4.0 | -9.748  | -0.0038 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 4.0 | -17.399 | -0.0067 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 4.0 | -11.861 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 4.0 | -19.389 | -0.0075 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 4.0 | -22.715 | -0.0088 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 4.0 | -14.724 | -0.0057 | -2.5 to 2.5 | Pass |
|       | 2685 | 50 | 0 | 20  | 3.8 | -19.779 | -0.0074 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.0 | -17.580 | -0.0065 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.2 | -15.330 | -0.0057 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 4.0 | -9.606  | -0.0036 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 4.0 | -21.033 | -0.0078 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 4.0 | -5.460  | -0.0020 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 4.0 | -6.871  | -0.0026 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 4.0 | -18.125 | -0.0068 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 4.0 | -13.204 | -0.0049 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 4.0 | -11.434 | -0.0043 | -2.5 to 2.5 | Pass |
| 64QAM | 2501 | 50 | 0 | 20  | 3.8 | -13.159 | -0.0053 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.0 | -10.395 | -0.0042 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.2 | -5.324  | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 4.0 | -20.635 | -0.0083 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 4.0 | -17.348 | -0.0069 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 4.0 | -6.836  | -0.0027 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 4.0 | -17.036 | -0.0068 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 4.0 | -20.530 | -0.0082 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 4.0 | -19.277 | -0.0077 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 4.0 | -13.448 | -0.0054 | -2.5 to 2.5 | Pass |
|       | 2593 | 50 | 0 | 20  | 3.8 | -18.784 | -0.0072 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.0 | -11.528 | -0.0044 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.2 | -10.277 | -0.0040 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 4.0 | -11.957 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 4.0 | -12.859 | -0.0050 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 4.0 | -16.621 | -0.0064 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 4.0 | -6.684  | -0.0026 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 4.0 | -14.460 | -0.0056 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 4.0 | -8.157  | -0.0031 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 4.0 | -16.867 | -0.0065 | -2.5 to 2.5 | Pass |
|       | 2685 | 50 | 0 | 20  | 3.8 | -21.749 | -0.0081 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.0 | -12.052 | -0.0045 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.2 | -21.248 | -0.0079 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 4.0 | -13.514 | -0.0050 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 4.0 | -15.805 | -0.0059 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 4.0 | -17.721 | -0.0066 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 4.0 | -16.743 | -0.0062 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 4.0 | -20.583 | -0.0077 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 4.0 | -18.215 | -0.0068 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 4.0 | -15.945 | -0.0059 | -2.5 to 2.5 | Pass |



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|  |  |  |  |    |     |         |         |             |      |
|--|--|--|--|----|-----|---------|---------|-------------|------|
|  |  |  |  | 50 | 4.0 | -17.956 | -0.0067 | -2.5 to 2.5 | Pass |
|--|--|--|--|----|-----|---------|---------|-------------|------|



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### 1.3 B41\_15MHz

#### 1.3.1 Test Result

| Band: 41 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2503.5          | 75            | 0      | 20         | 3.8           | -13.993          | -0.0056               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -16.418          | -0.0066               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -5.801           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -20.117          | -0.0080               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -12.498          | -0.0050               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -11.308          | -0.0045               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -7.926           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -18.846          | -0.0075               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -16.434          | -0.0066               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -7.688           | -0.0031               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -13.539          | -0.0054               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 75            | 0      | 20         | 3.8           | -12.621          | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -19.744          | -0.0076               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -6.609           | -0.0025               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -18.050          | -0.0070               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -15.666          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -14.278          | -0.0055               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -10.270          | -0.0040               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -20.072          | -0.0077               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -5.531           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -8.555           | -0.0033               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -13.400          | -0.0052               | -2.5 to 2.5 | Pass    |
|                             | 2682.5          | 75            | 0      | 20         | 3.8           | -24.386          | -0.0091               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -19.108          | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -14.868          | -0.0055               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -14.048          | -0.0052               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -20.916          | -0.0078               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -12.972          | -0.0048               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -16.517          | -0.0062               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -14.222          | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -10.151          | -0.0038               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -24.392          | -0.0091               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -13.709          | -0.0051               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2503.5          | 75            | 0      | 20         | 3.8           | -16.041          | -0.0064               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -10.085          | -0.0040               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -9.826           | -0.0039               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -11.028          | -0.0044               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -18.281          | -0.0073               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -22.043          | -0.0088               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -17.716          | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -20.330          | -0.0081               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -10.786          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -20.602          | -0.0082               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -19.129          | -0.0076               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 75            | 0      | 20         | 3.8           | -22.435          | -0.0087               | -2.5 to 2.5 | Pass    |

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|       |        |    |   |     |     |         |         |             |      |
|-------|--------|----|---|-----|-----|---------|---------|-------------|------|
|       |        |    |   |     | 4.0 | -21.024 | -0.0081 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -11.842 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -16.765 | -0.0065 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -10.789 | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -13.342 | -0.0051 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -21.940 | -0.0085 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -22.464 | -0.0087 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -22.816 | -0.0088 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -13.912 | -0.0054 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -14.510 | -0.0056 | -2.5 to 2.5 | Pass |
|       | 2682.5 | 75 | 0 | 20  | 3.8 | -10.991 | -0.0041 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -17.544 | -0.0065 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -9.867  | -0.0037 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -17.269 | -0.0064 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -13.463 | -0.0050 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -16.326 | -0.0061 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -14.497 | -0.0054 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -15.248 | -0.0057 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -17.880 | -0.0067 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -10.717 | -0.0040 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -9.798  | -0.0037 | -2.5 to 2.5 | Pass |
| 64QAM | 2503.5 | 75 | 0 | 20  | 3.8 | -20.281 | -0.0081 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -10.460 | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -13.623 | -0.0054 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -5.823  | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -13.141 | -0.0052 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -8.045  | -0.0032 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -14.766 | -0.0059 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -9.237  | -0.0037 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -10.299 | -0.0041 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -13.154 | -0.0053 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -14.541 | -0.0058 | -2.5 to 2.5 | Pass |
|       | 2593   | 75 | 0 | 20  | 3.8 | -16.296 | -0.0063 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -14.149 | -0.0055 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -12.047 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -11.363 | -0.0044 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -22.577 | -0.0087 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -12.168 | -0.0047 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -8.340  | -0.0032 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -22.327 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -8.835  | -0.0034 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -7.539  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 4.0 | -13.821 | -0.0053 | -2.5 to 2.5 | Pass |
|       | 2682.5 | 75 | 0 | 20  | 3.8 | -15.013 | -0.0056 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.0 | -19.877 | -0.0074 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -19.977 | -0.0074 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.0 | -7.736  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 4.0 | -11.309 | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 4.0 | -15.456 | -0.0058 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 4.0 | -15.027 | -0.0056 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 4.0 | -10.680 | -0.0040 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 4.0 | -5.935  | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 4.0 | -11.773 | -0.0044 | -2.5 to 2.5 | Pass |



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|--|--|--|--|----|-----|---------|---------|-------------|------|
|  |  |  |  | 50 | 4.0 | -21.617 | -0.0081 | -2.5 to 2.5 | Pass |
|--|--|--|--|----|-----|---------|---------|-------------|------|



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## 1.4 B41\_20MHz

### 1.4.1 Test Result

| Band: 41 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2506            | 100           | 0      | 20         | 3.8           | -10.574          | -0.0042               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -10.673          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -7.516           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -13.242          | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -13.614          | -0.0054               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -6.861           | -0.0027               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -9.518           | -0.0038               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -12.247          | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -18.850          | -0.0075               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -15.027          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -4.221           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 100           | 0      | 20         | 3.8           | -11.280          | -0.0044               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -17.242          | -0.0066               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -7.666           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -11.276          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -15.481          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -9.986           | -0.0039               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -21.109          | -0.0081               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -11.197          | -0.0043               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -6.709           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -17.782          | -0.0069               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -8.242           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             | 2680            | 100           | 0      | 20         | 3.8           | -18.047          | -0.0067               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -15.903          | -0.0059               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -18.942          | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -21.336          | -0.0080               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -11.730          | -0.0044               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -16.264          | -0.0061               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -18.332          | -0.0068               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -7.017           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -11.848          | -0.0044               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -19.383          | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -12.234          | -0.0046               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2506            | 100           | 0      | 20         | 3.8           | -13.290          | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.0           | -16.528          | -0.0066               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.2           | -18.088          | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 4.0           | -14.923          | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 4.0           | -17.370          | -0.0069               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 4.0           | -13.050          | -0.0052               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 4.0           | -18.441          | -0.0074               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 4.0           | -17.576          | -0.0070               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 4.0           | -17.781          | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 4.0           | -17.500          | -0.0070               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 4.0           | -11.362          | -0.0045               | -2.5 to 2.5 | Pass    |
|                             | 2593            | 100           | 0      | 20         | 3.8           | -14.781          | -0.0057               | -2.5 to 2.5 | Pass    |



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|       |      |     |   |     | 4.0 | -11.817 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.2 | -9.595  | -0.0037 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 4.0 | -14.079 | -0.0054 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 4.0 | -10.082 | -0.0039 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 4.0 | -12.048 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 4.0 | -13.070 | -0.0050 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 4.0 | -15.512 | -0.0060 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 4.0 | -15.702 | -0.0061 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 4.0 | -17.209 | -0.0066 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 4.0 | -13.822 | -0.0053 | -2.5 to 2.5 | Pass |
|       | 2680 | 100 | 0 | 20  | 3.8 | -11.879 | -0.0044 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.0 | -13.969 | -0.0052 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.2 | -9.245  | -0.0034 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 4.0 | -14.967 | -0.0056 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 4.0 | -15.998 | -0.0060 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 4.0 | -11.677 | -0.0044 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 4.0 | -12.207 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 4.0 | -11.483 | -0.0043 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 4.0 | -19.950 | -0.0074 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 4.0 | -16.006 | -0.0060 | -2.5 to 2.5 | Pass |
| 64QAM | 2506 | 100 | 0 | 20  | 3.8 | -17.573 | -0.0070 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.0 | -13.234 | -0.0053 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.2 | -13.334 | -0.0053 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 4.0 | -12.482 | -0.0050 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 4.0 | -6.610  | -0.0026 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 4.0 | -12.276 | -0.0049 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 4.0 | -9.457  | -0.0038 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 4.0 | -21.512 | -0.0086 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 4.0 | -11.378 | -0.0045 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 4.0 | -10.191 | -0.0041 | -2.5 to 2.5 | Pass |
|       | 2593 | 100 | 0 | 20  | 3.8 | -16.893 | -0.0065 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.0 | -7.536  | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.2 | -17.985 | -0.0069 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 4.0 | -12.049 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 4.0 | -9.623  | -0.0037 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 4.0 | -15.906 | -0.0061 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 4.0 | -8.918  | -0.0034 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 4.0 | -7.350  | -0.0028 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 4.0 | -4.887  | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 4.0 | -16.641 | -0.0064 | -2.5 to 2.5 | Pass |
|       | 2680 | 100 | 0 | 20  | 3.8 | -24.120 | -0.0090 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.0 | -11.364 | -0.0042 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 4.2 | -5.088  | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 4.0 | -10.956 | -0.0041 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 4.0 | -7.874  | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 4.0 | -13.208 | -0.0049 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 4.0 | -17.436 | -0.0065 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 4.0 | -12.381 | -0.0046 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 4.0 | -22.029 | -0.0082 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 4.0 | -13.300 | -0.0050 | -2.5 to 2.5 | Pass |



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|  |  |  |  |    |     |        |         |             |      |
|--|--|--|--|----|-----|--------|---------|-------------|------|
|  |  |  |  | 50 | 4.0 | -9.034 | -0.0034 | -2.5 to 2.5 | Pass |
|--|--|--|--|----|-----|--------|---------|-------------|------|



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### 2. 99% & 26dB Bandwidth

#### 2.1 Band41\_OBW

##### 2.1.1 Test Result

| Band: 41 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2498.5          | 25            | 0      | 4.540                        | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 4.546                        | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 4.556                        | /     | Pass    |
|                 | 16QAM      | 2498.5          | 25            | 0      | 4.568                        | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 4.542                        | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 4.552                        | /     | Pass    |
|                 | 64QAM      | 2498.5          | 25            | 0      | 4.548                        | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 4.530                        | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 4.539                        | /     | Pass    |
| 10              | QPSK       | 2501            | 50            | 0      | 9.027                        | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.034                        | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.042                        | /     | Pass    |
|                 | 16QAM      | 2501            | 50            | 0      | 9.043                        | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.061                        | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.027                        | /     | Pass    |
|                 | 64QAM      | 2501            | 50            | 0      | 9.037                        | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.021                        | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.045                        | /     | Pass    |
| 15              | QPSK       | 2503.5          | 75            | 0      | 13.576                       | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 13.573                       | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 13.519                       | /     | Pass    |
|                 | 16QAM      | 2503.5          | 75            | 0      | 13.601                       | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 13.555                       | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 13.606                       | /     | Pass    |
|                 | 64QAM      | 2503.5          | 75            | 0      | 13.553                       | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 13.586                       | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 13.577                       | /     | Pass    |
| 20              | QPSK       | 2506            | 100           | 0      | 18.075                       | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 17.998                       | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 18.056                       | /     | Pass    |
|                 | 16QAM      | 2506            | 100           | 0      | 18.032                       | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 18.053                       | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 18.072                       | /     | Pass    |
|                 | 64QAM      | 2506            | 100           | 0      | 17.997                       | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 18.037                       | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 18.066                       | /     | Pass    |

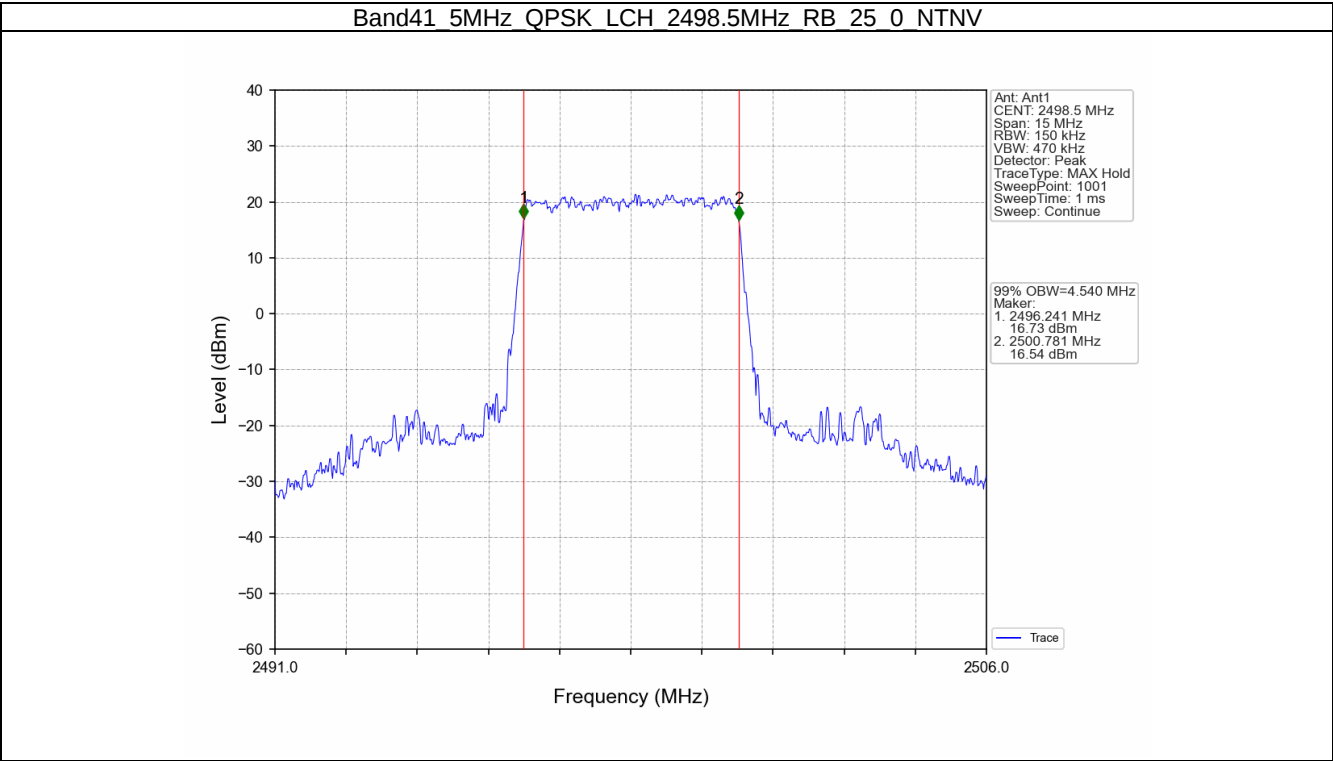


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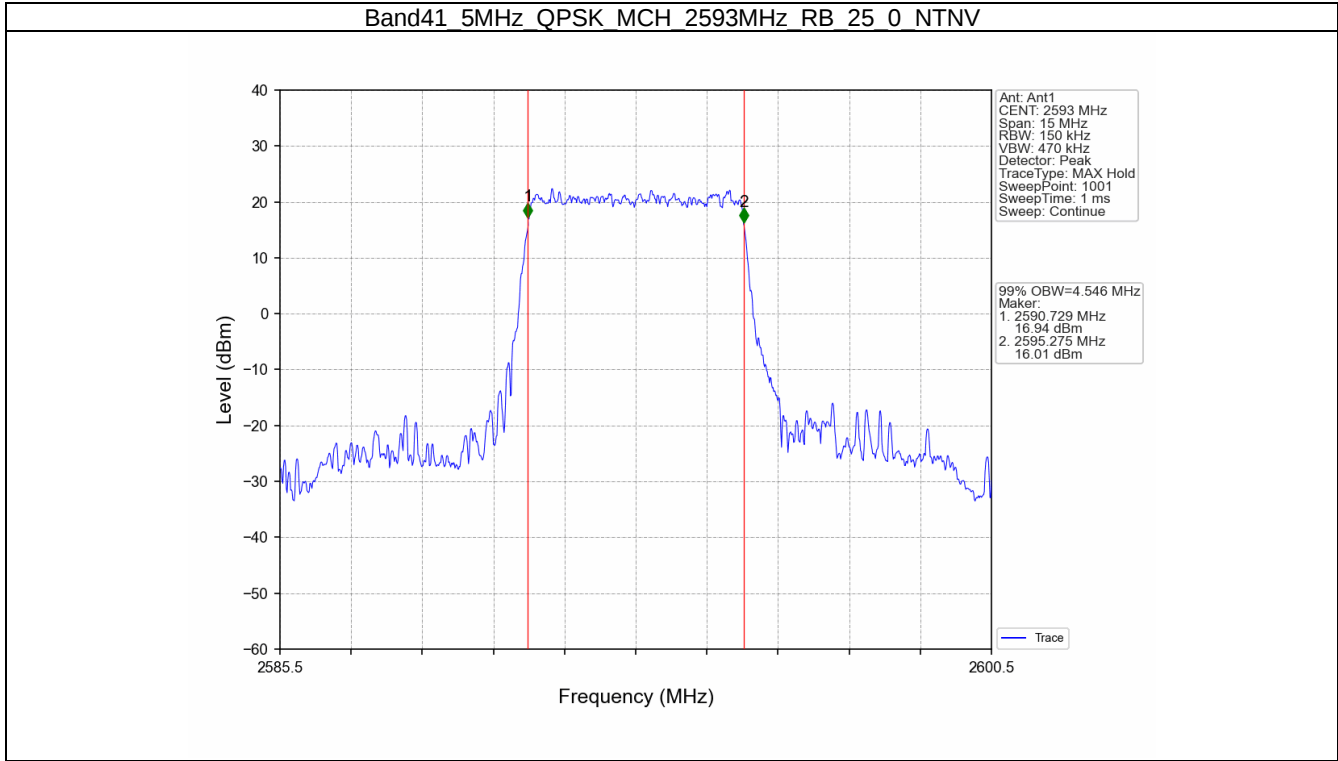
2.1.2 Test Graph





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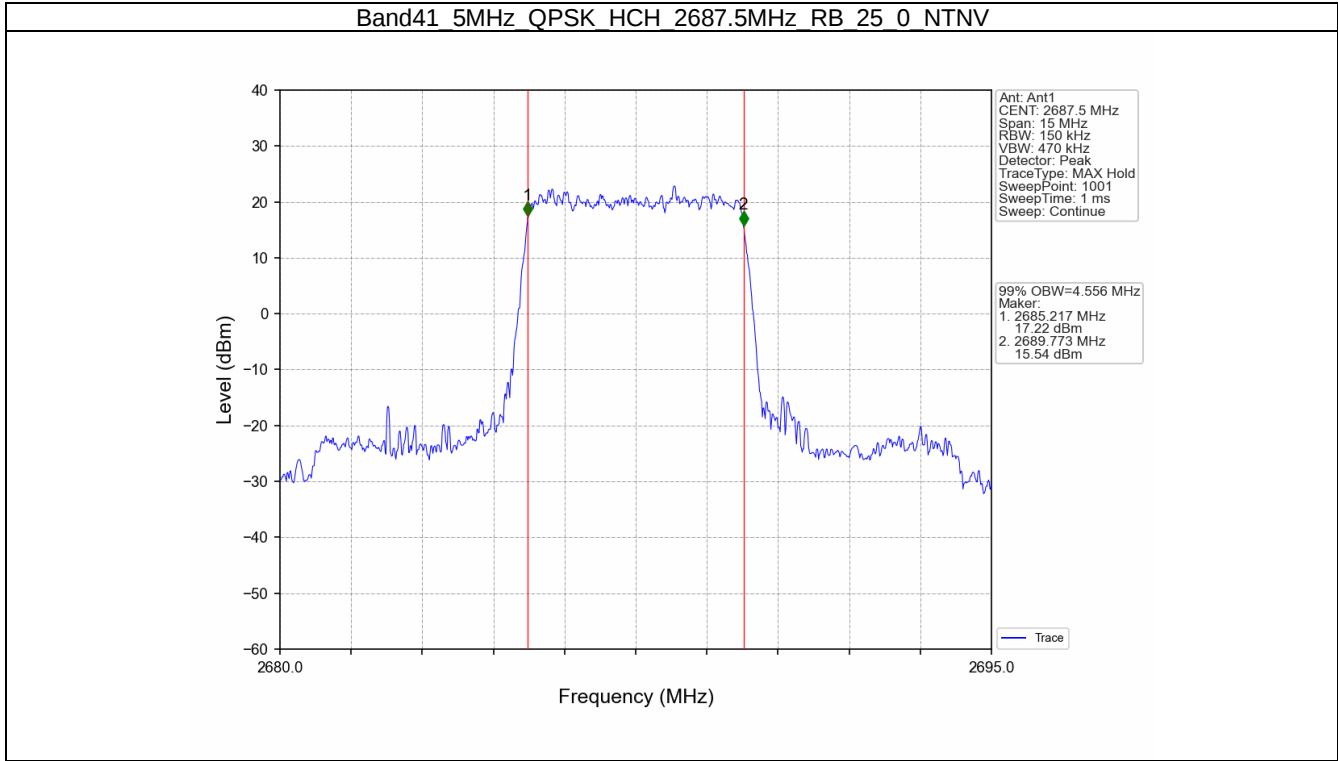




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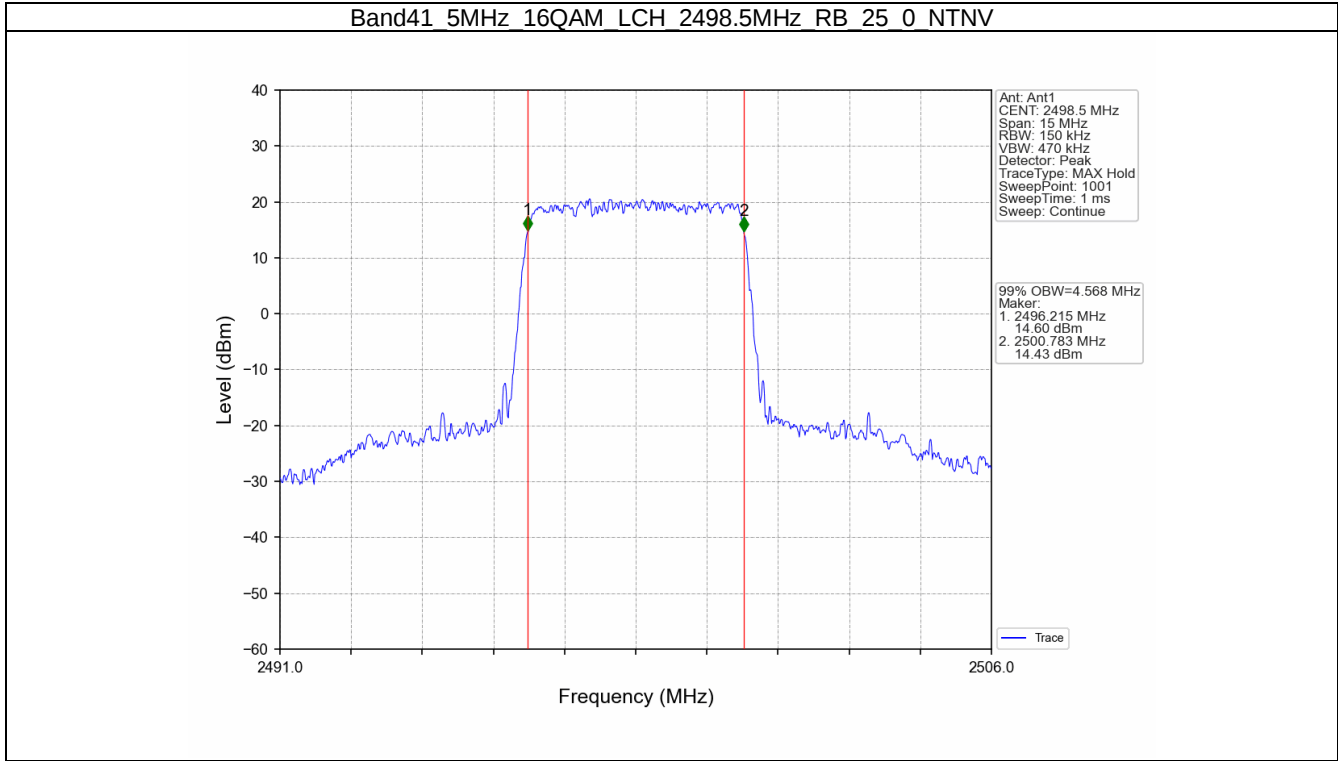
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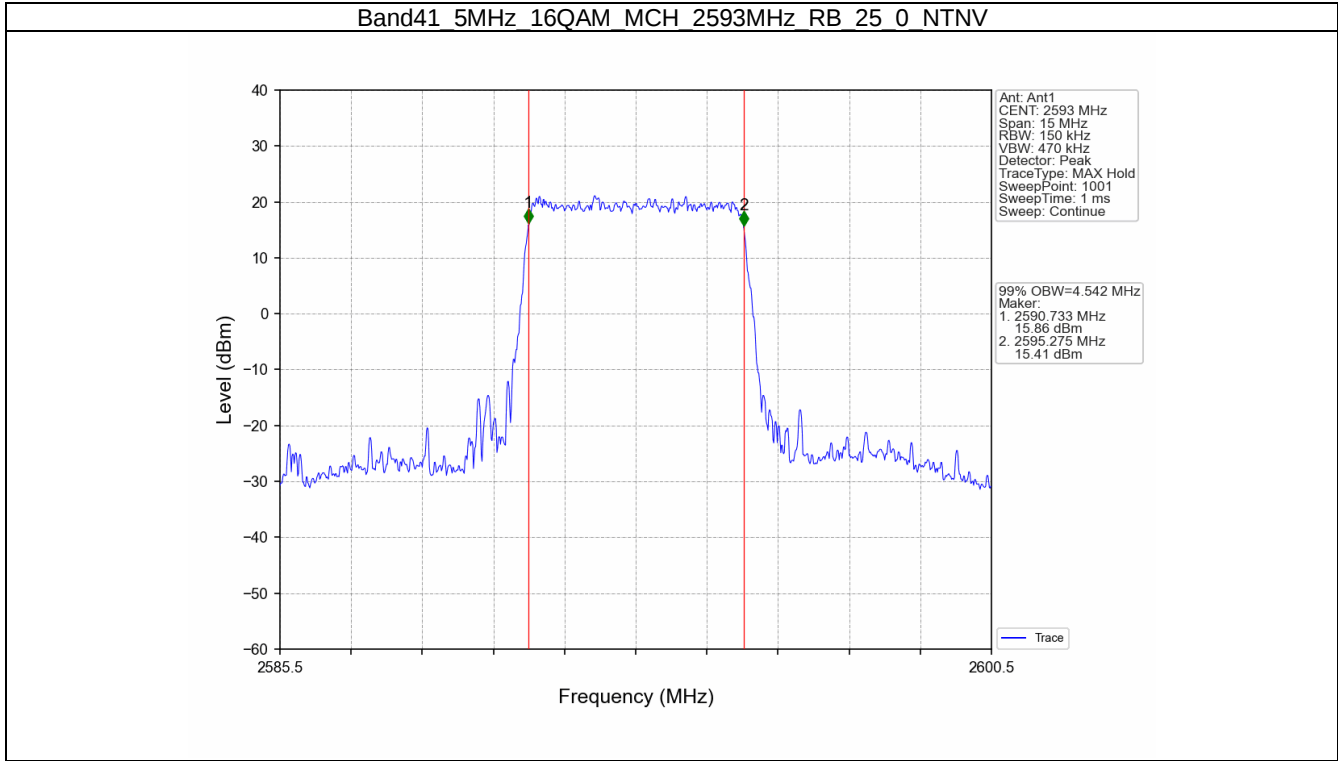
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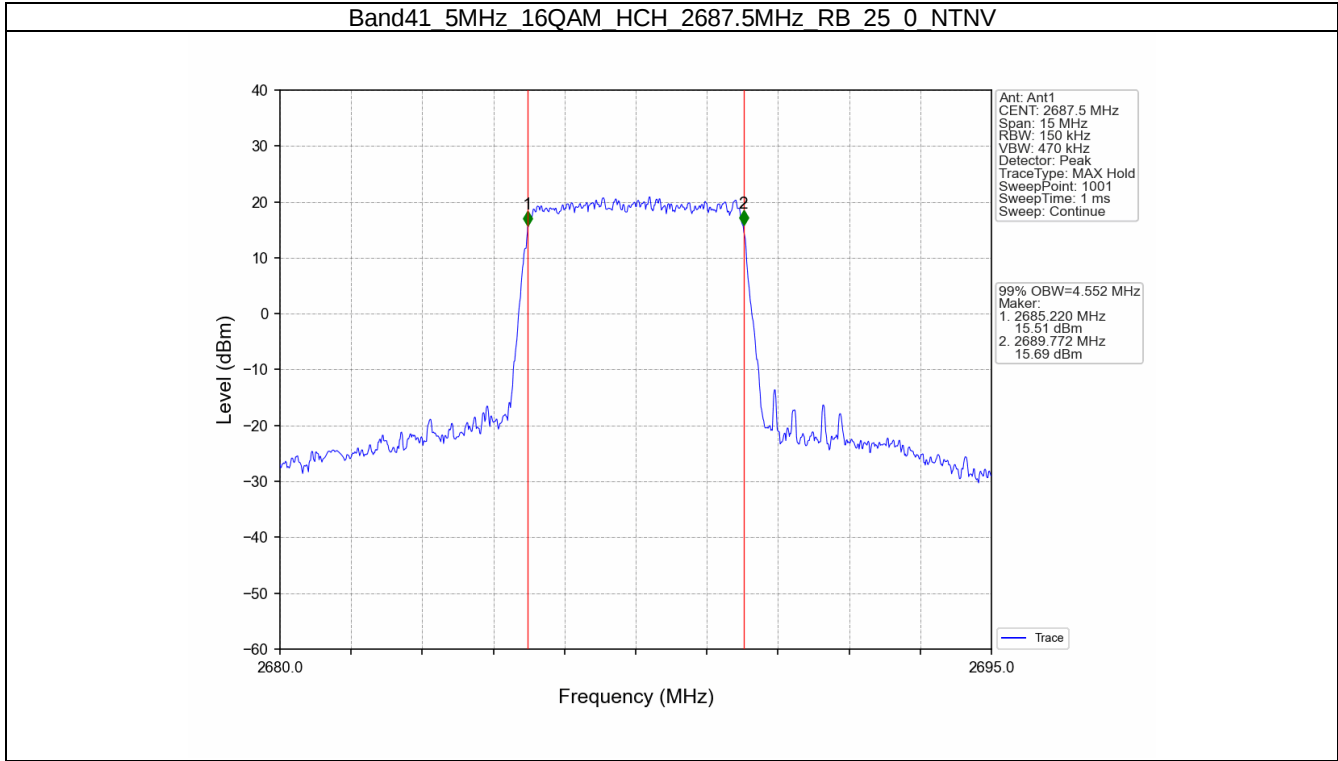
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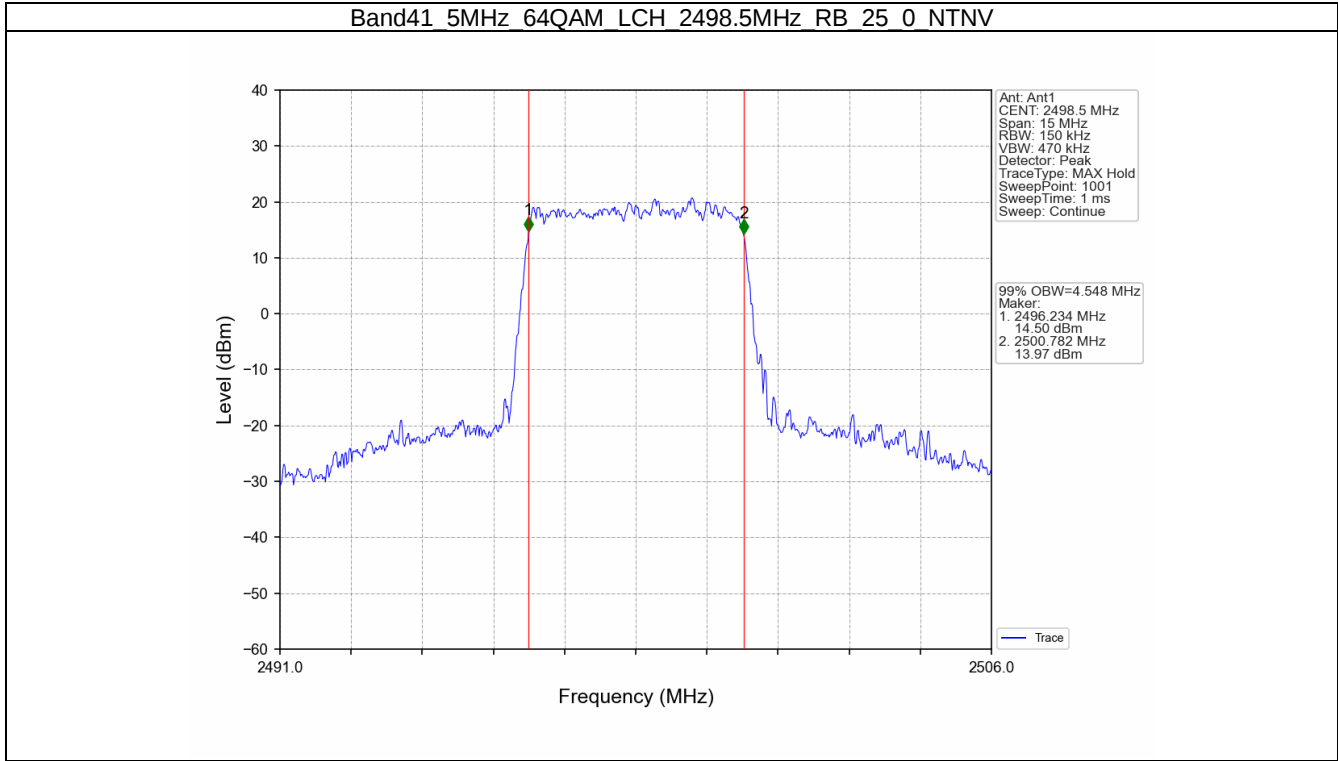
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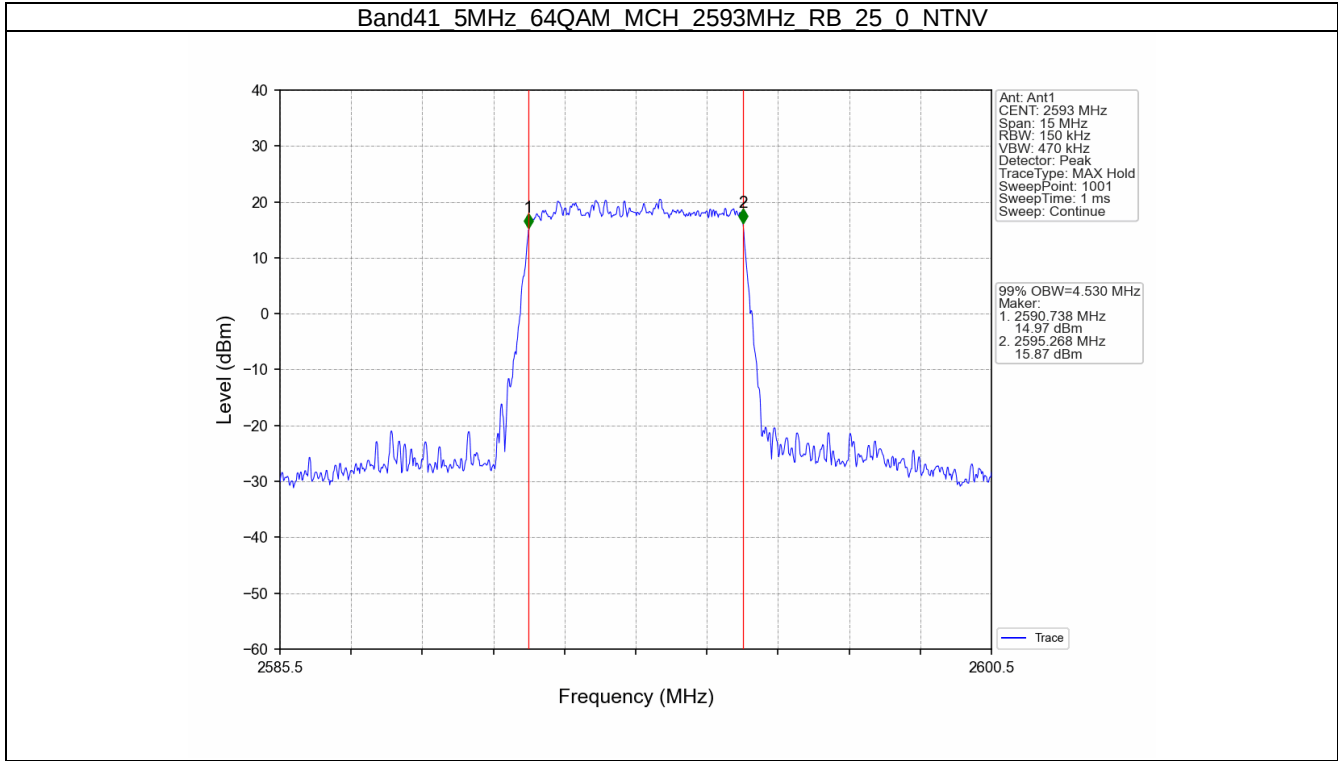
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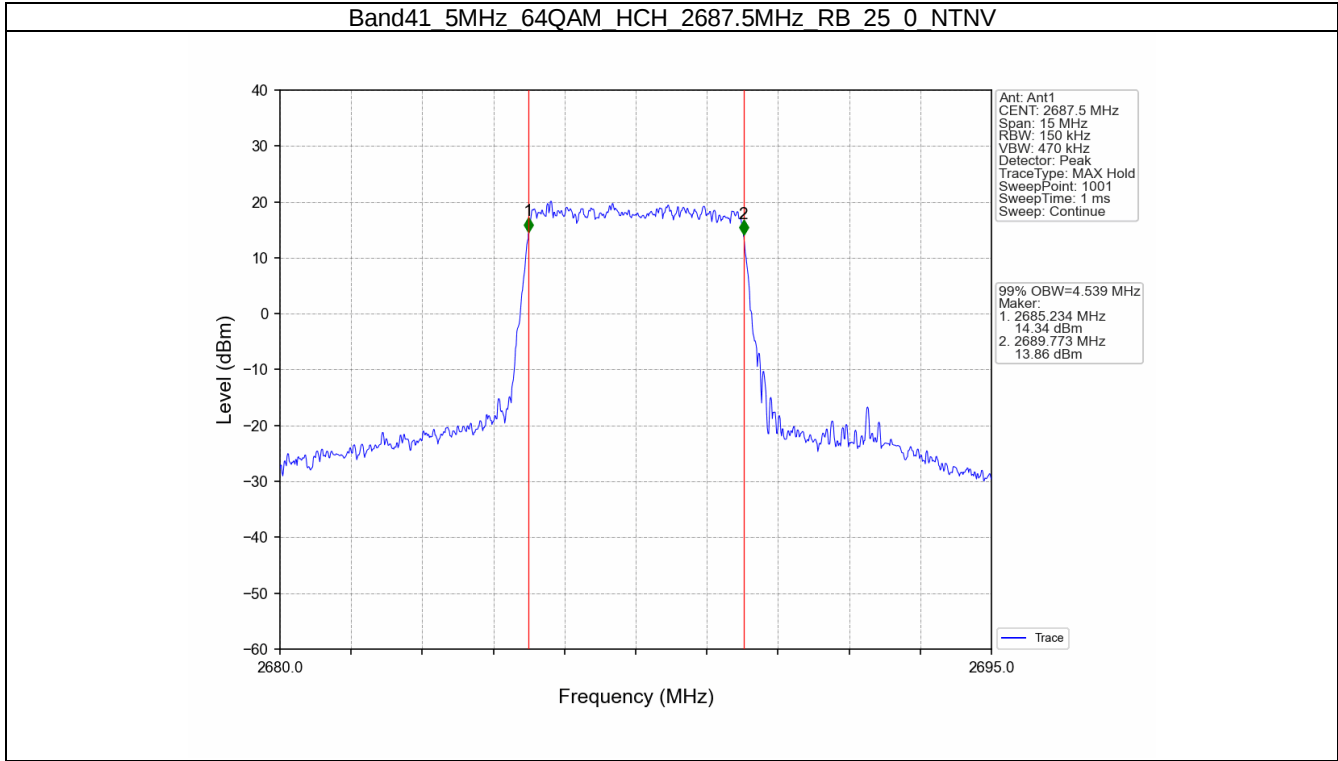
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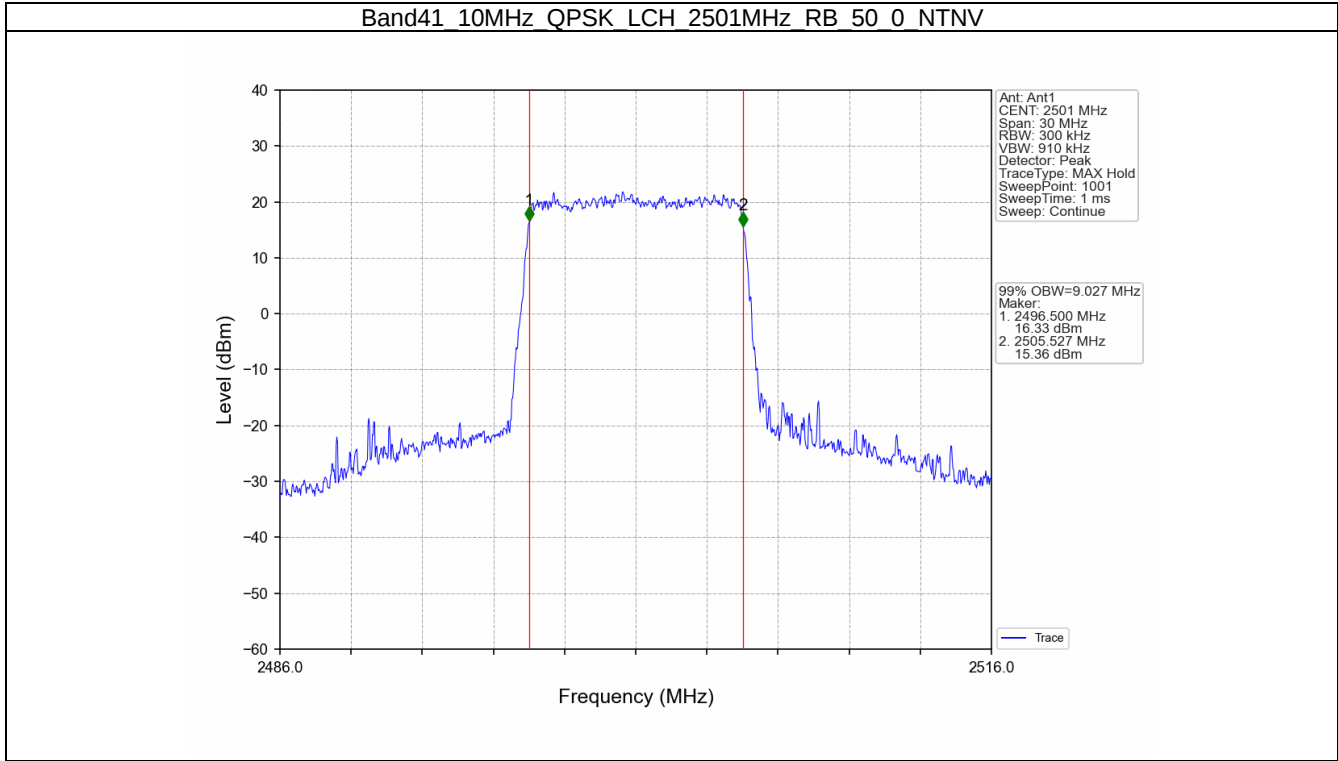
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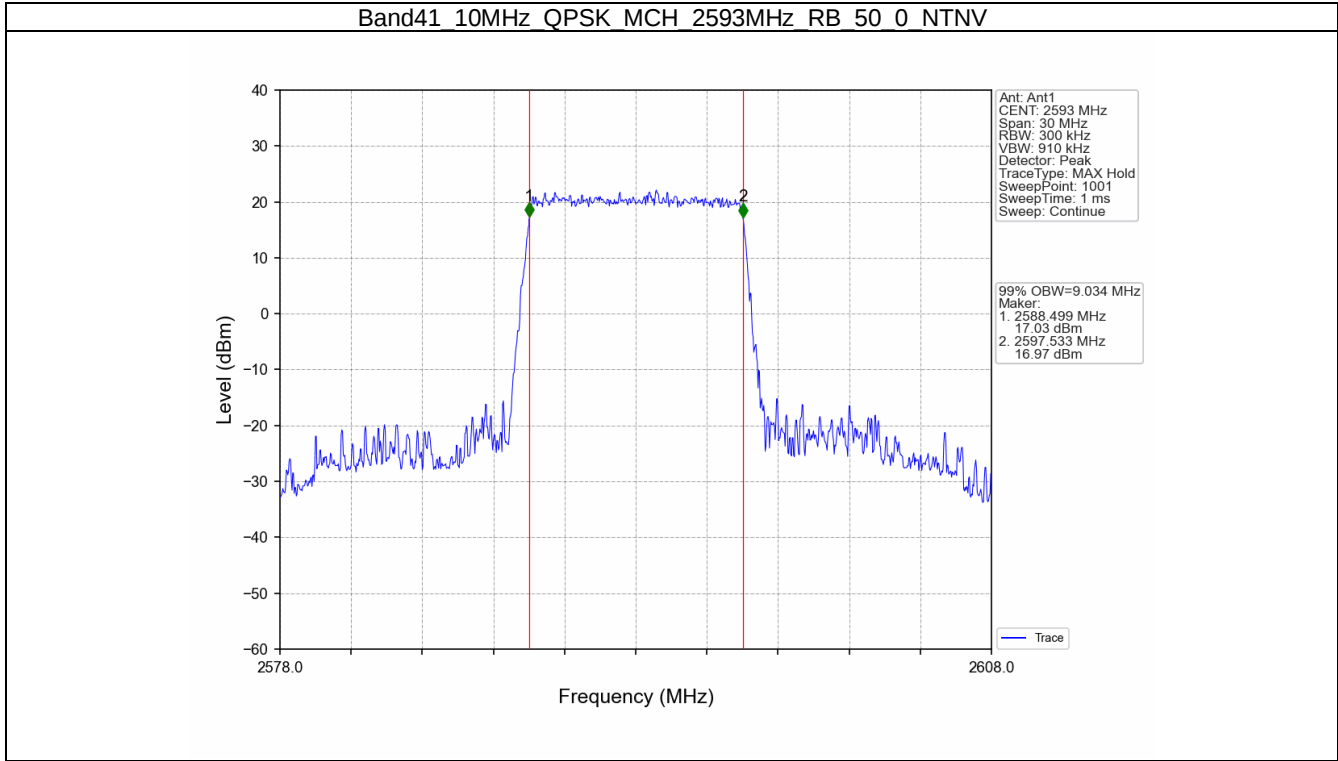
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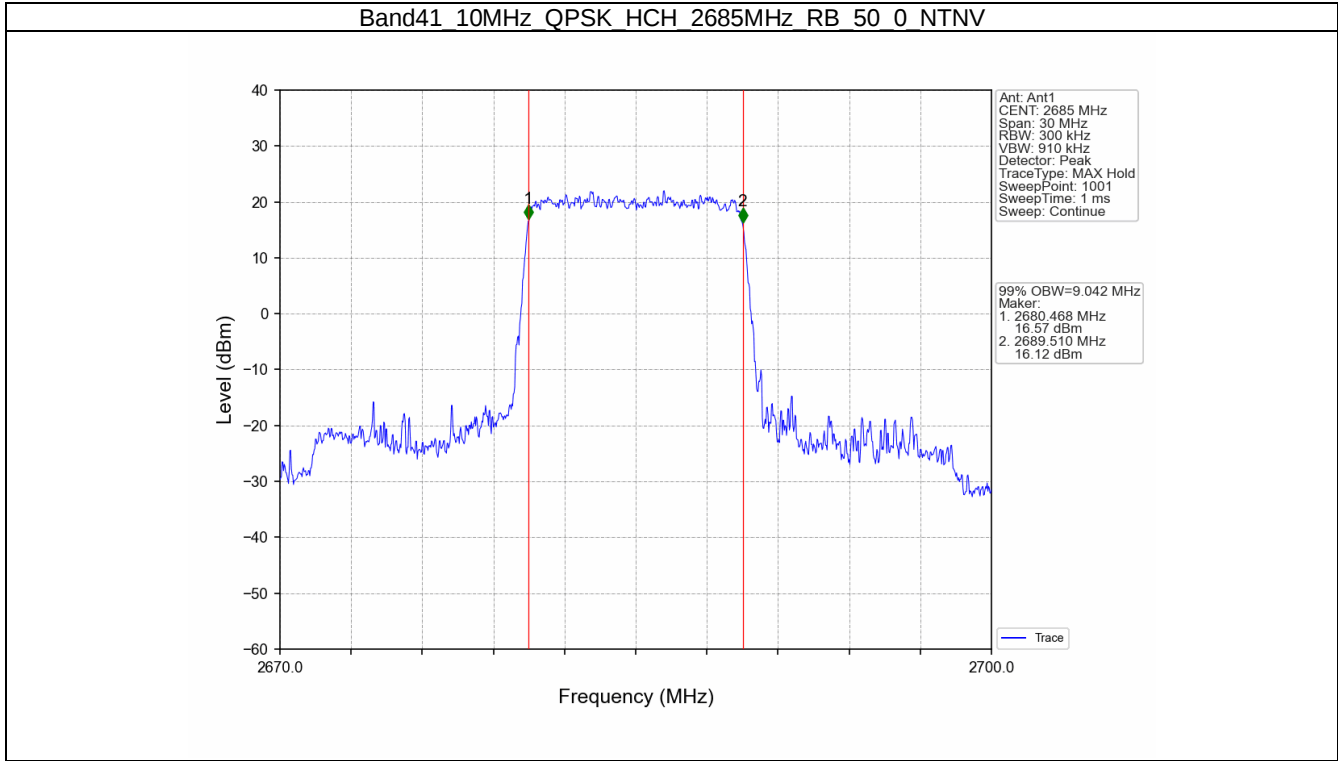
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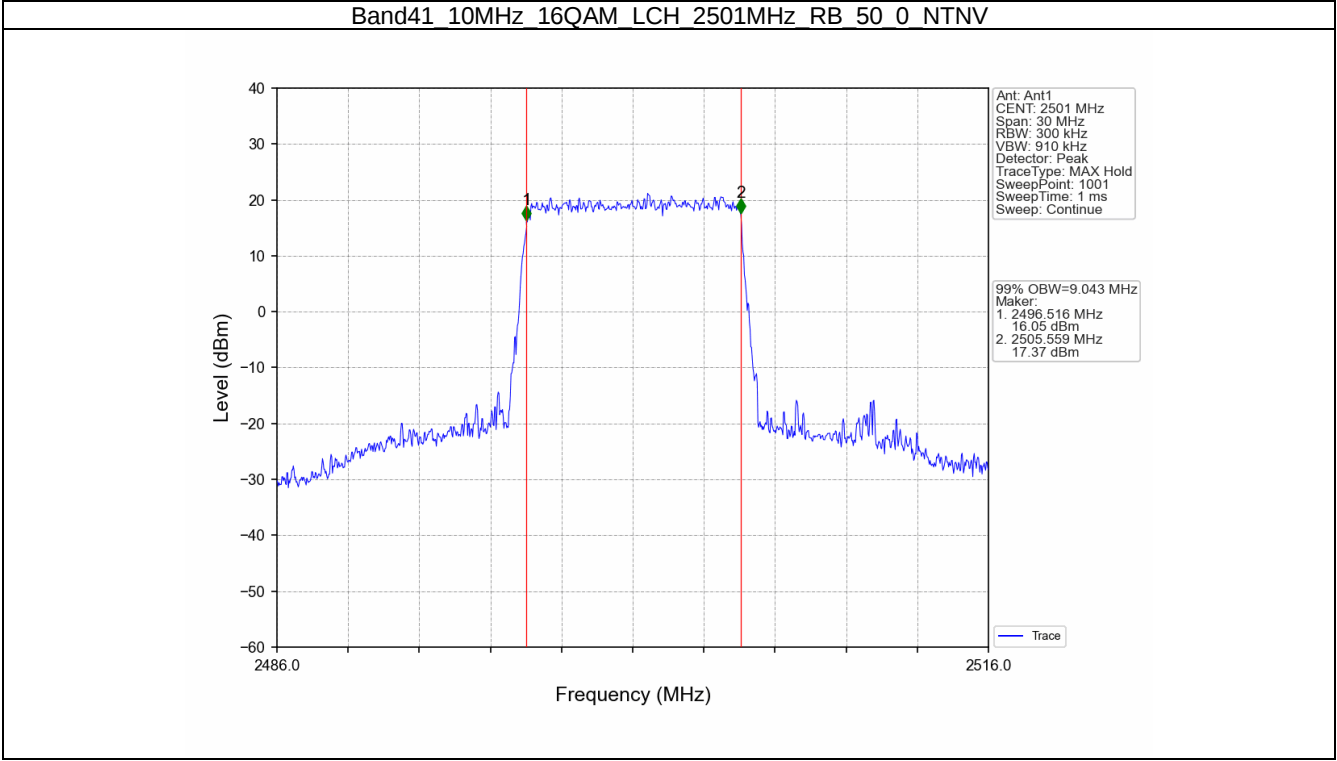
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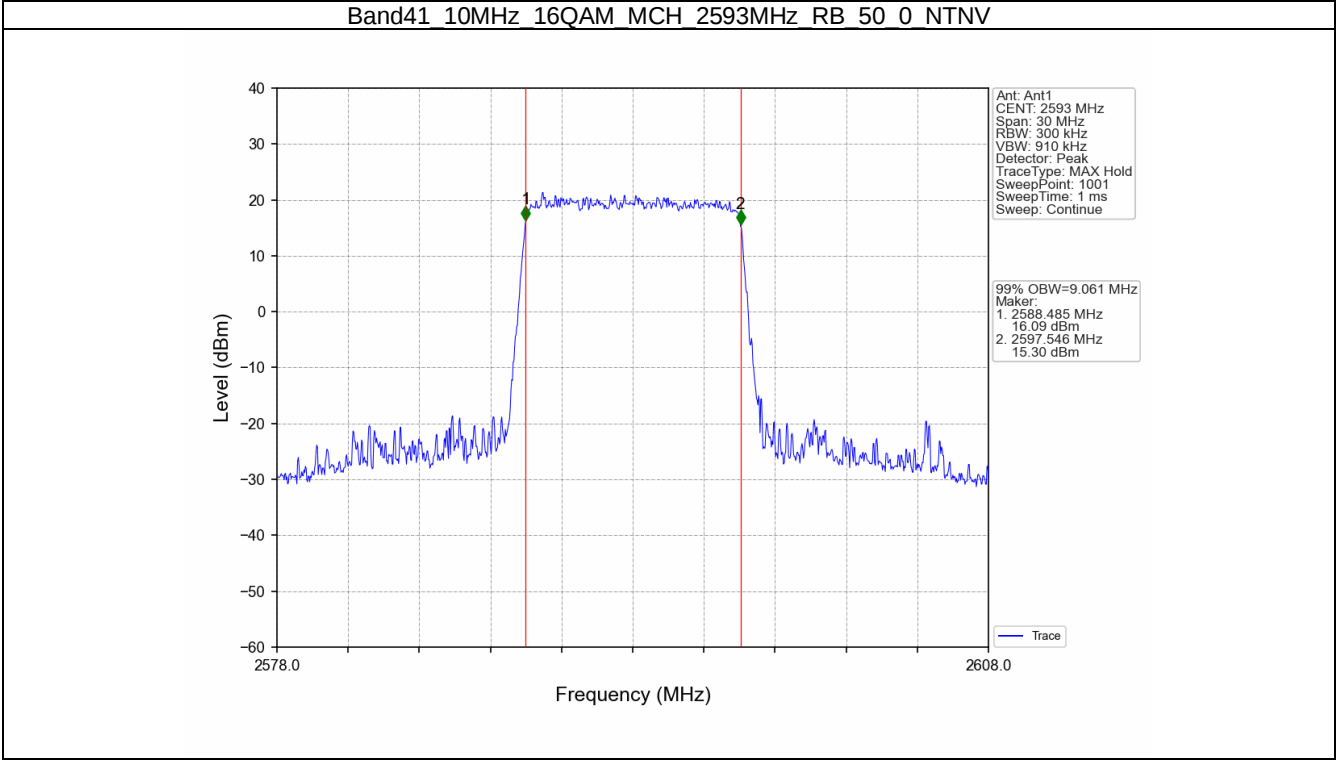




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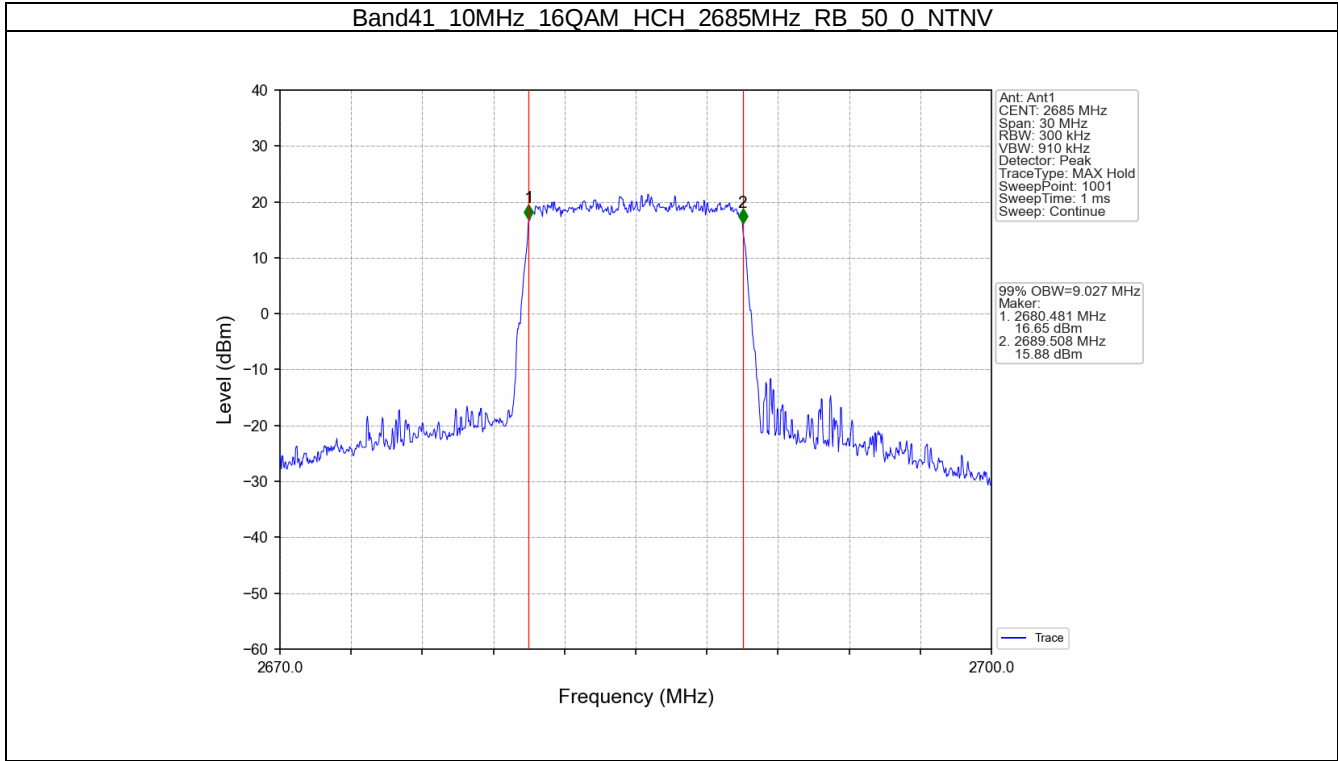
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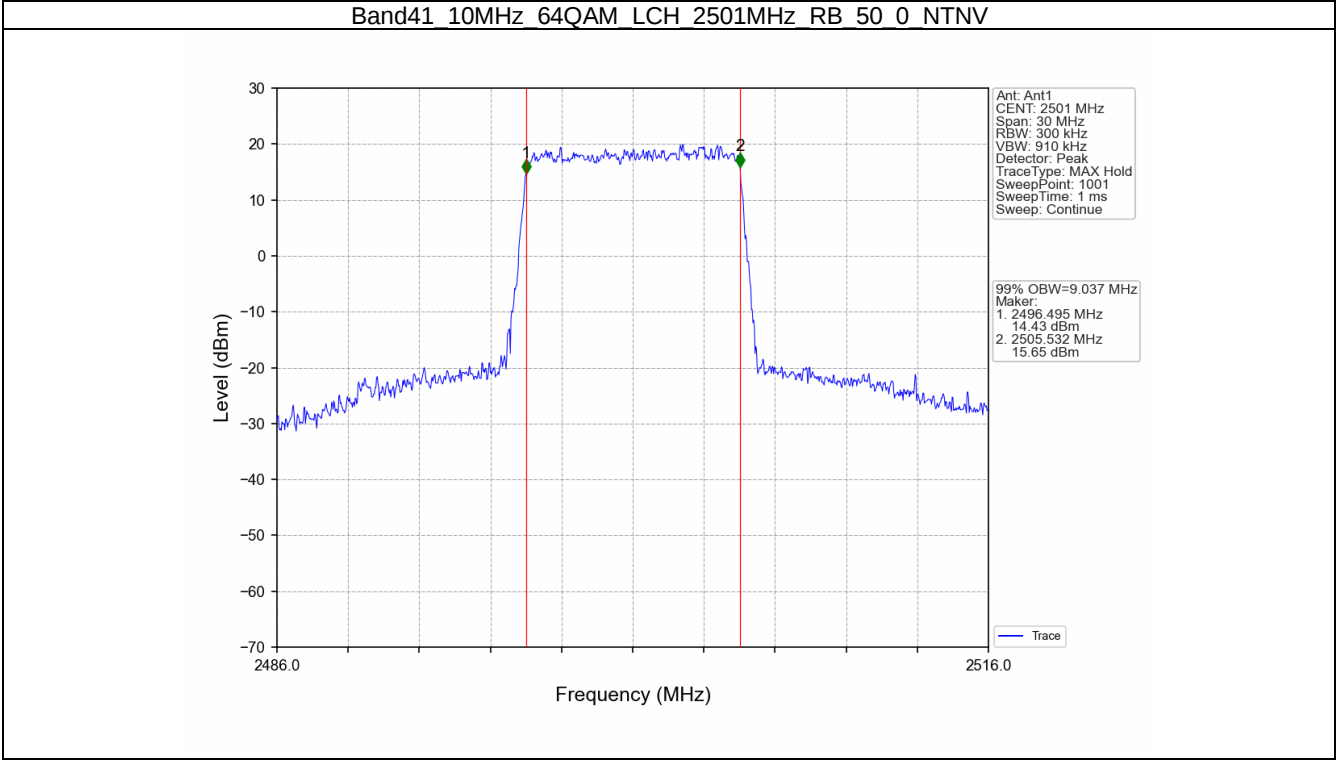
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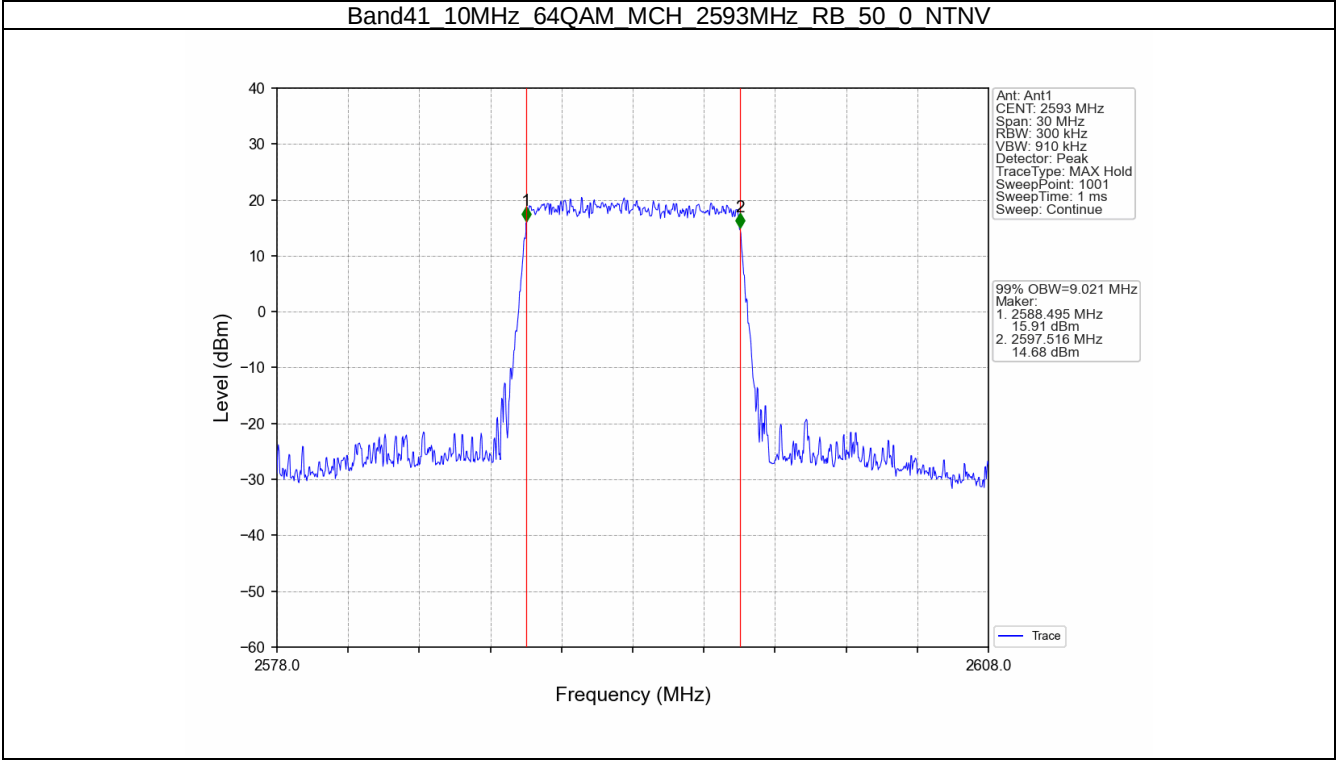
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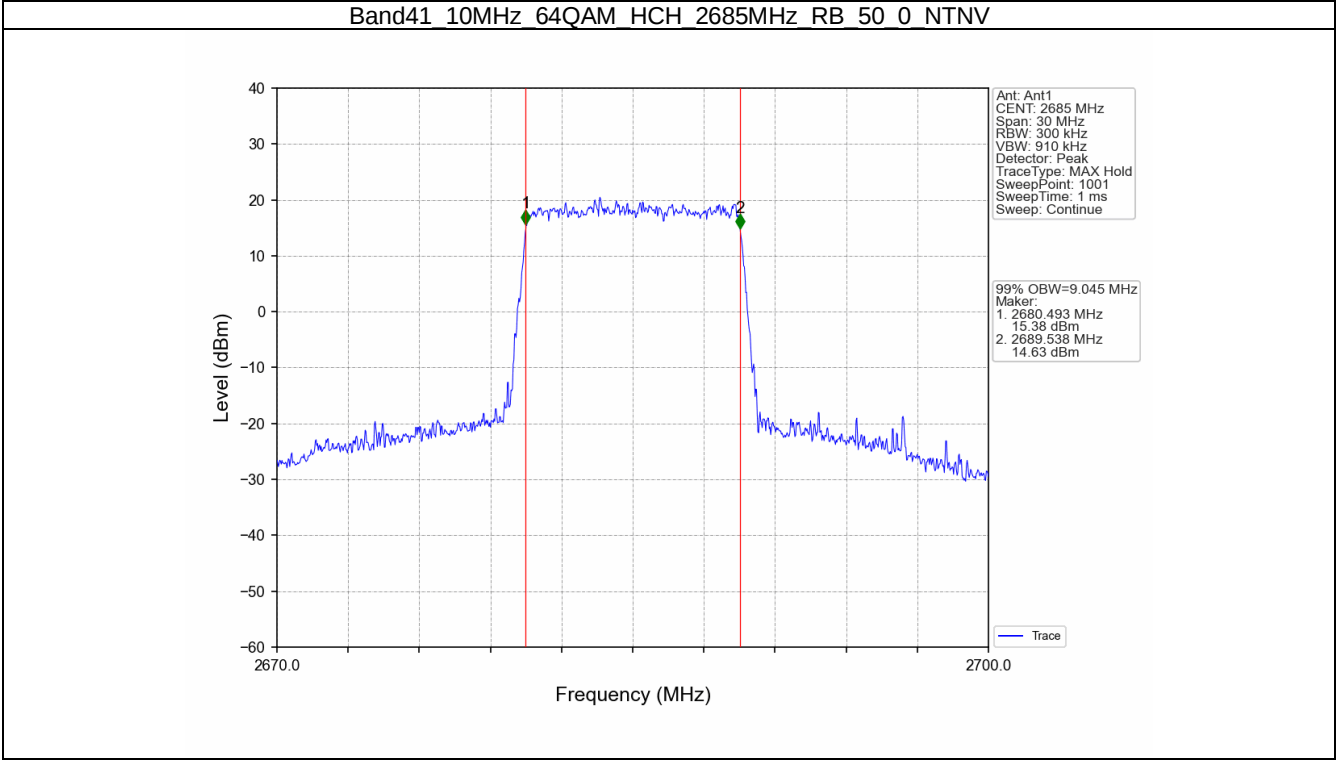
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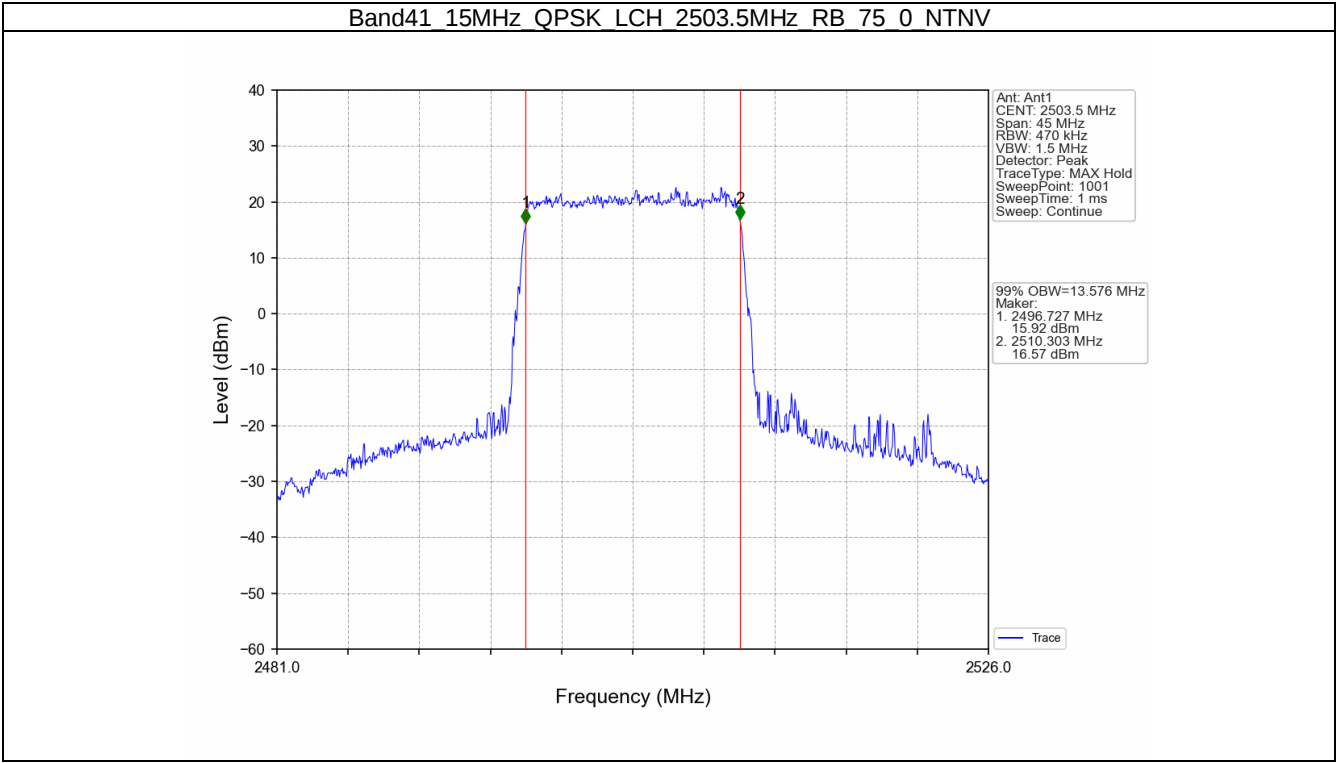
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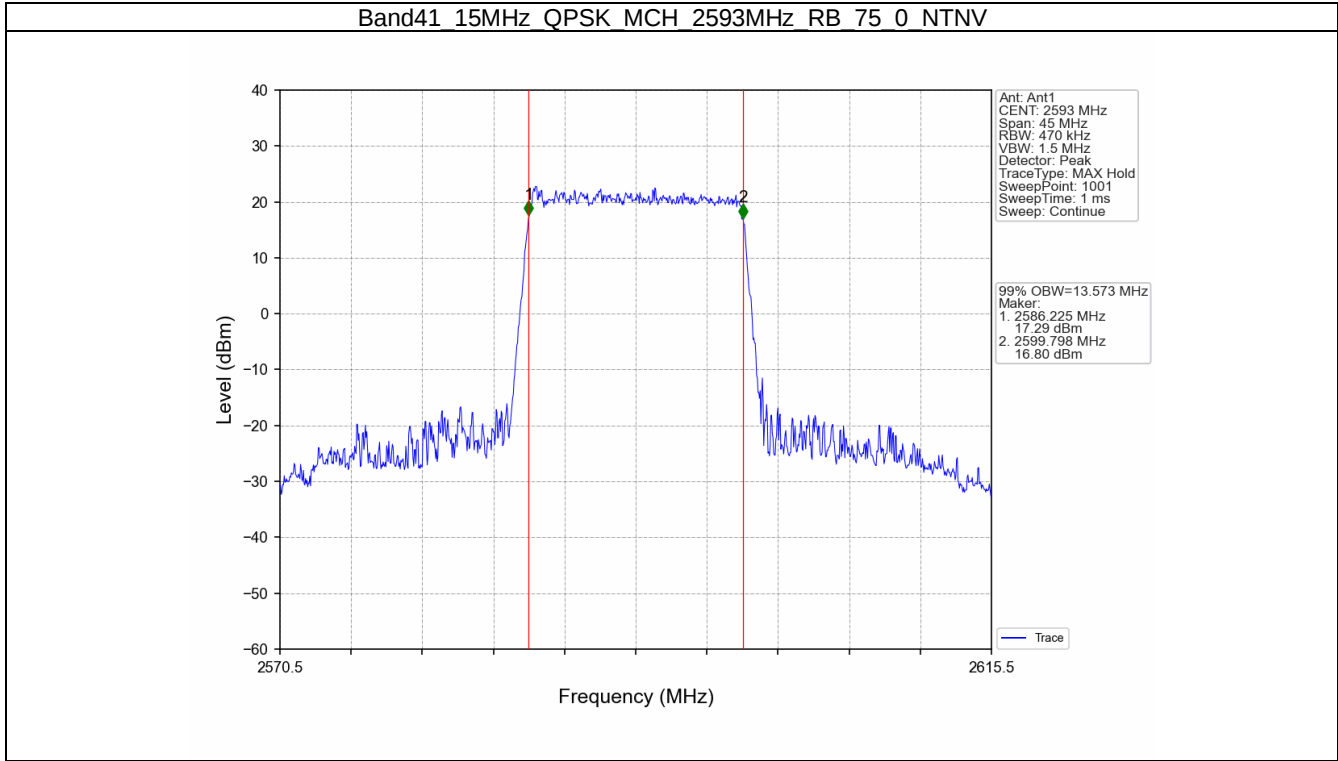
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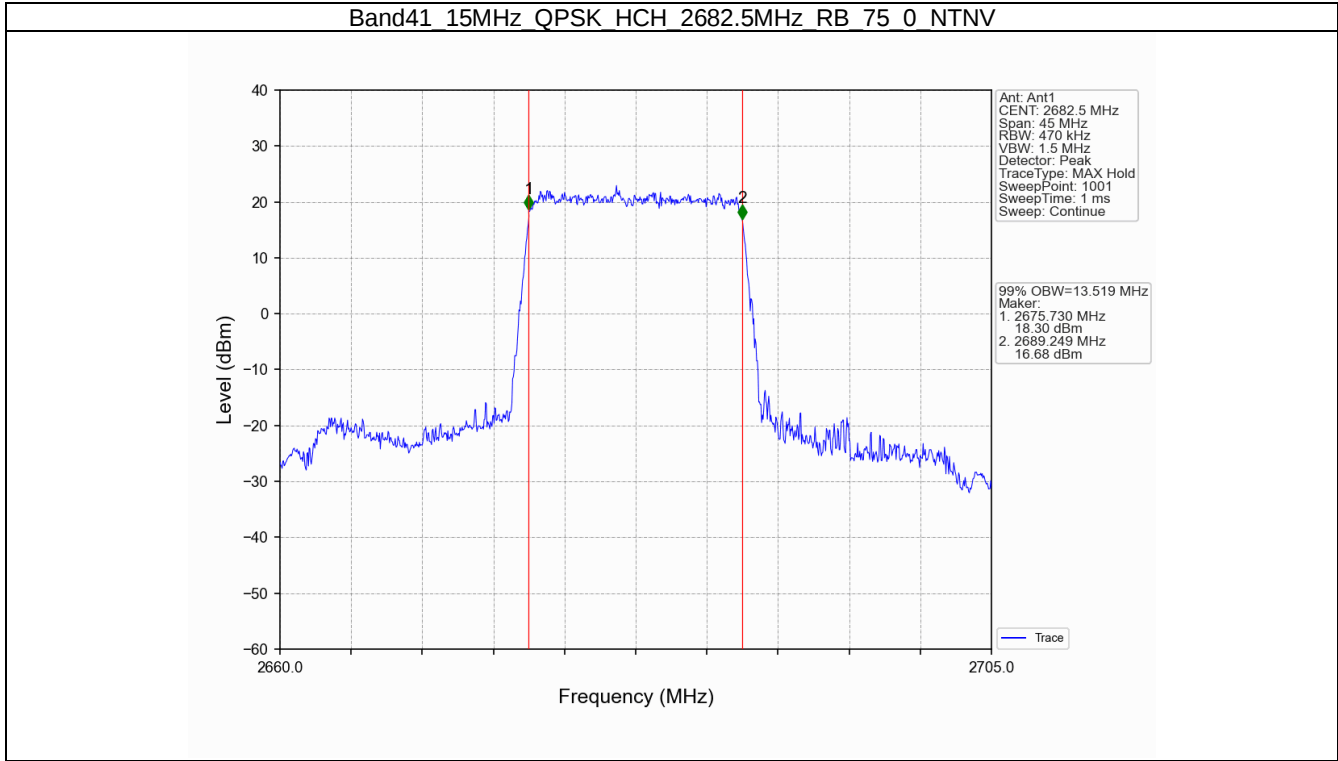




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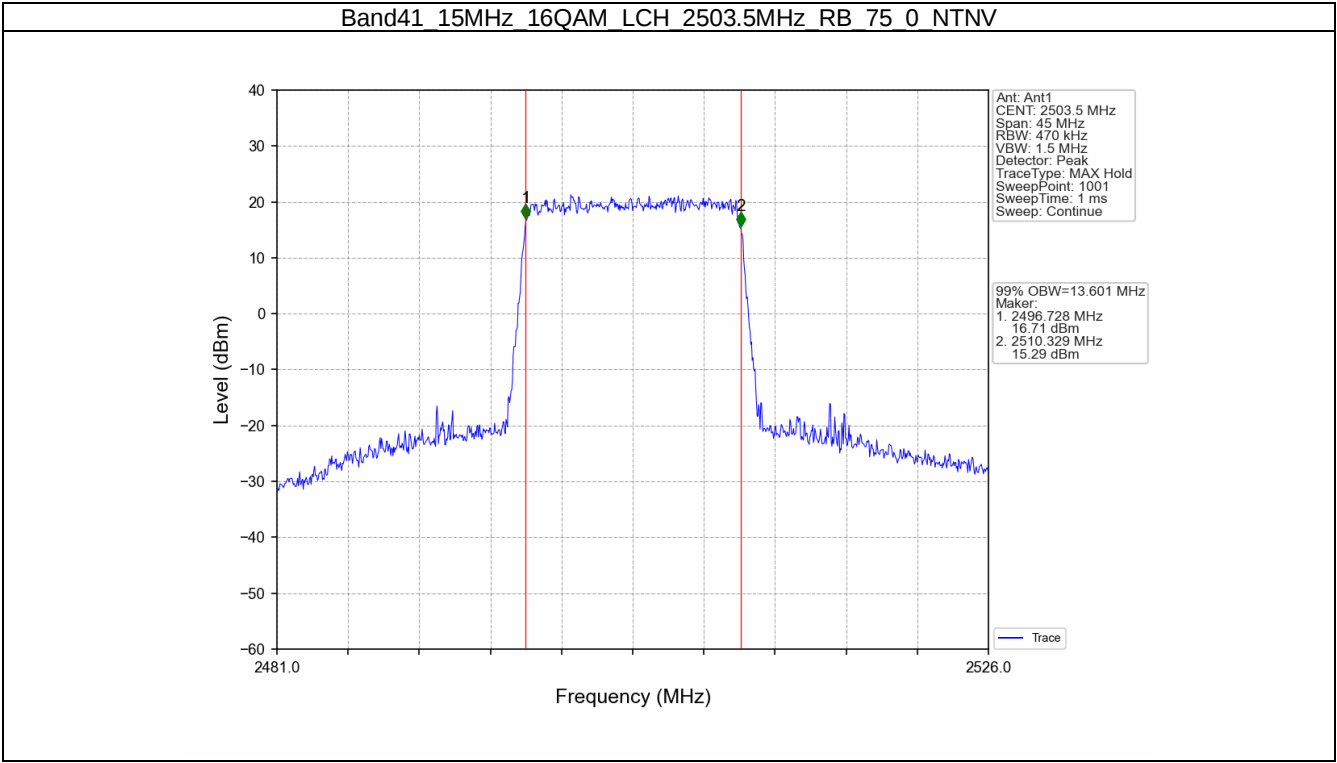




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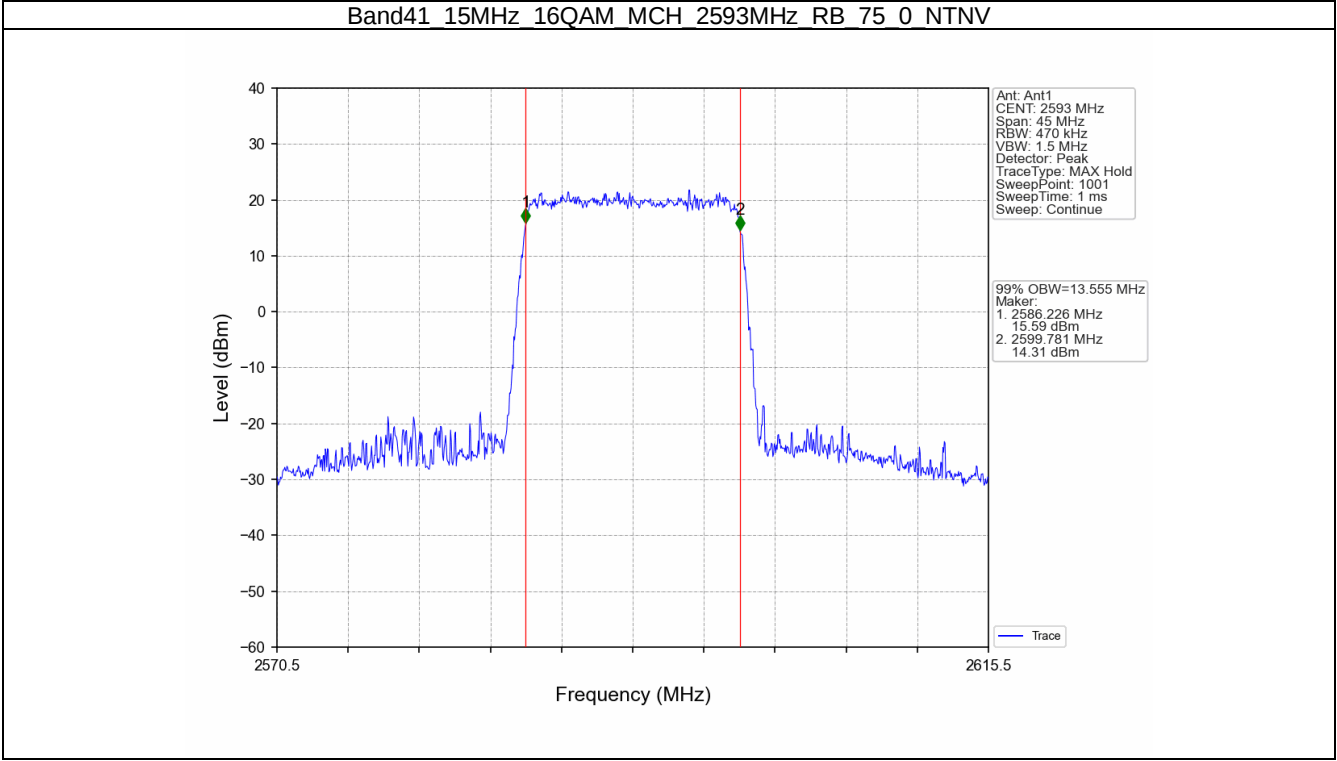
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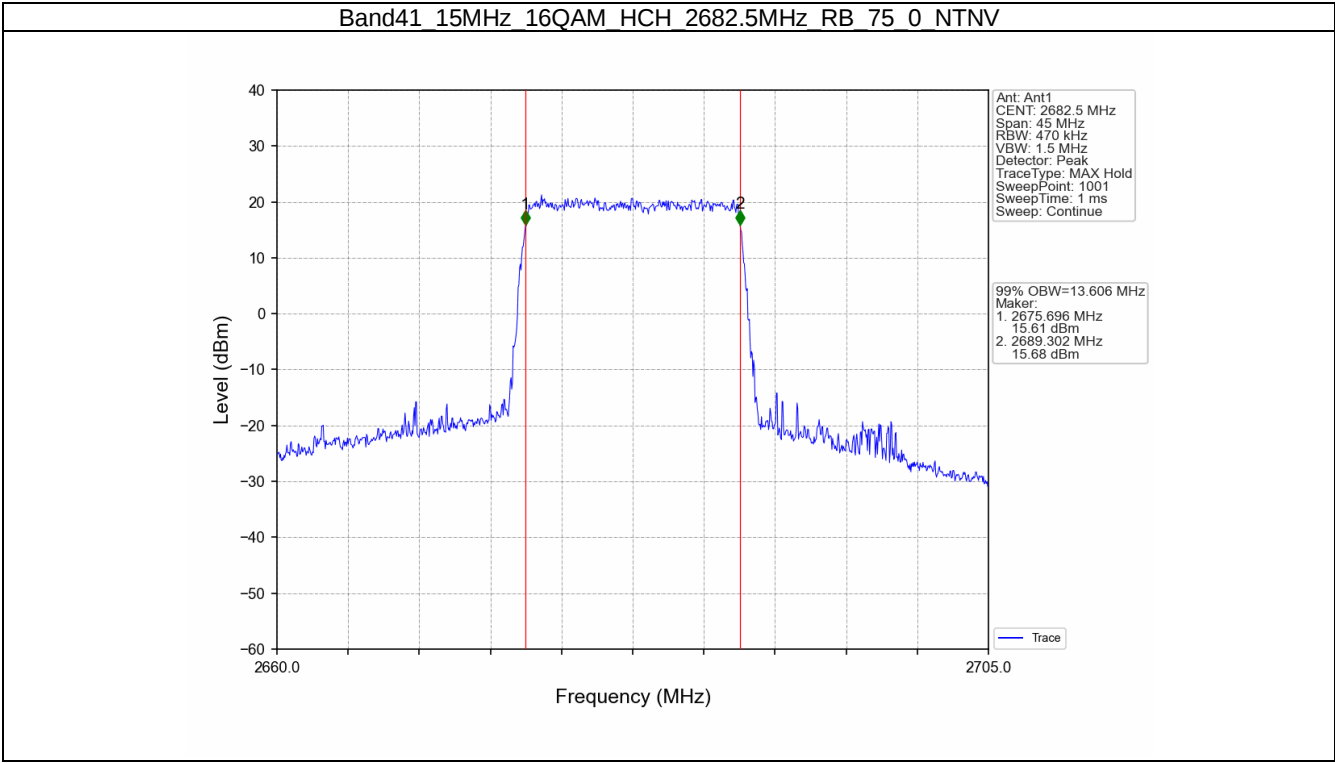
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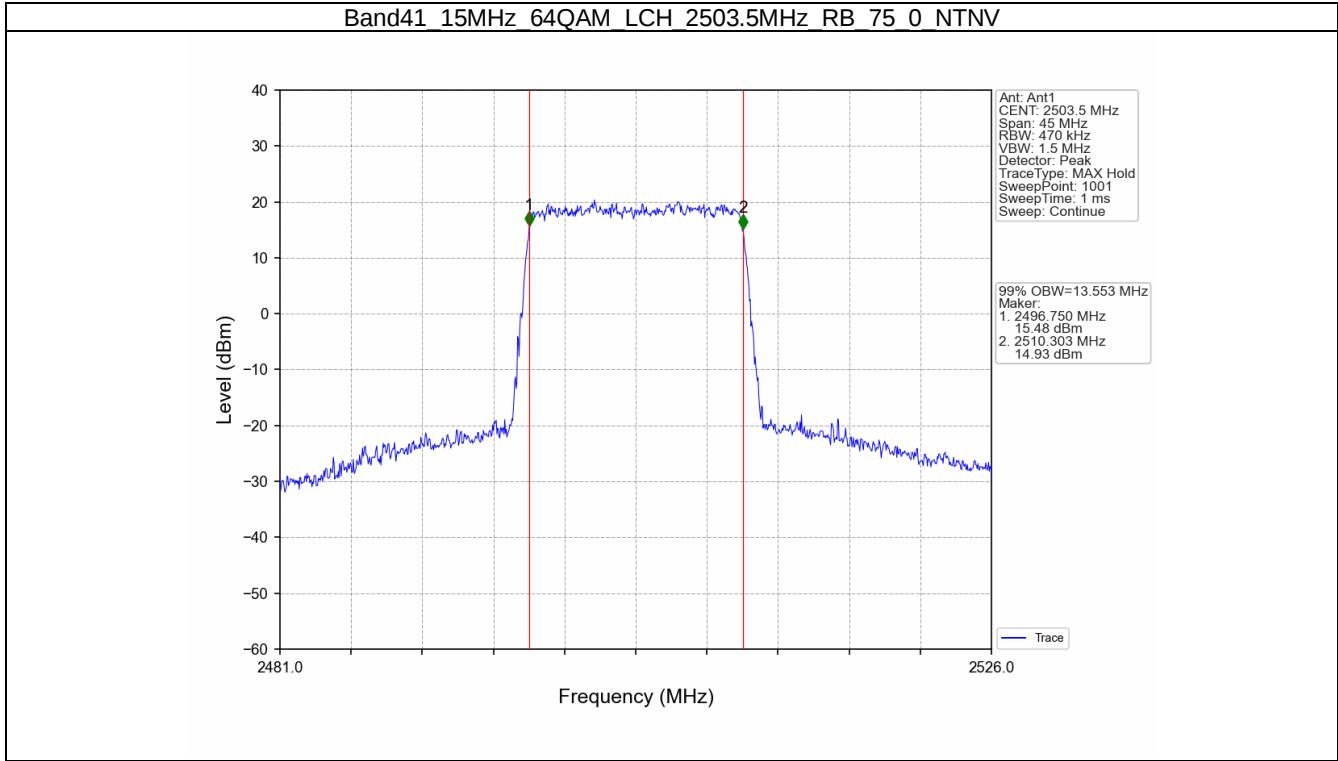
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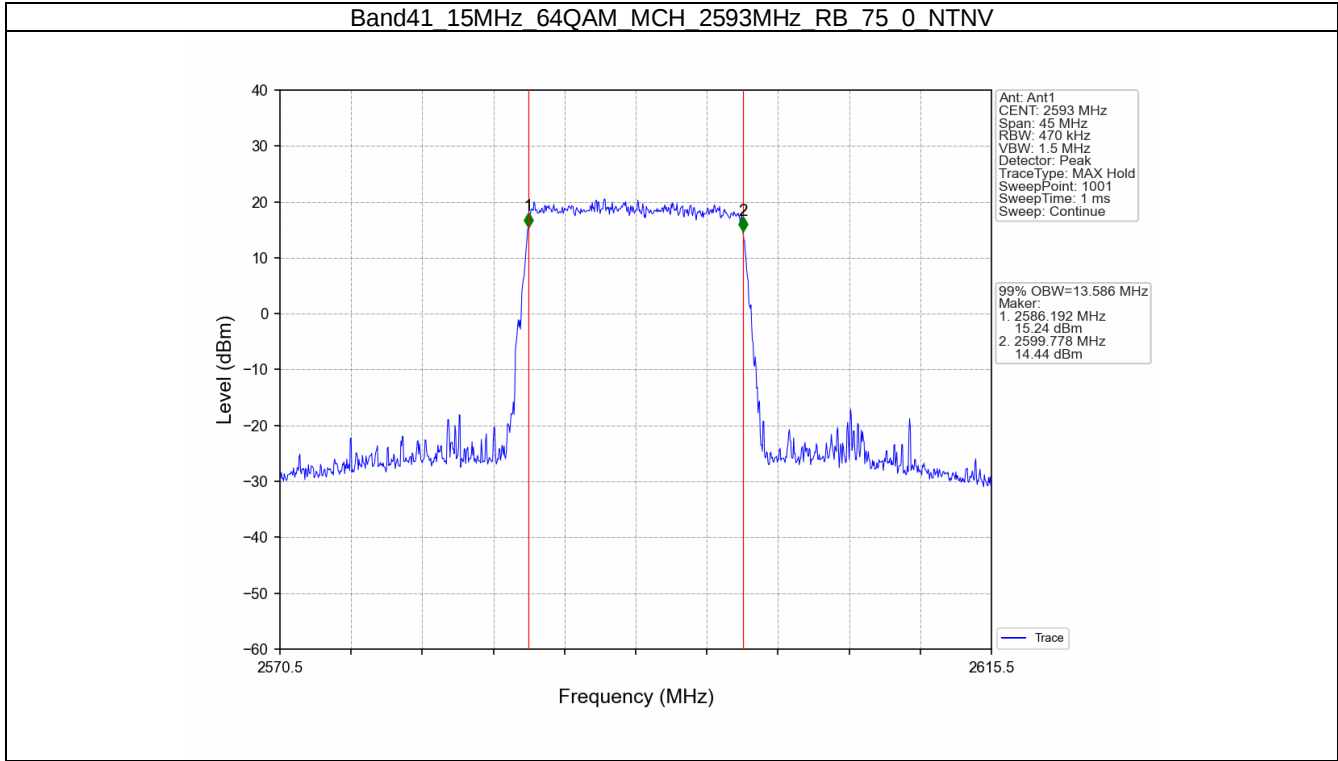
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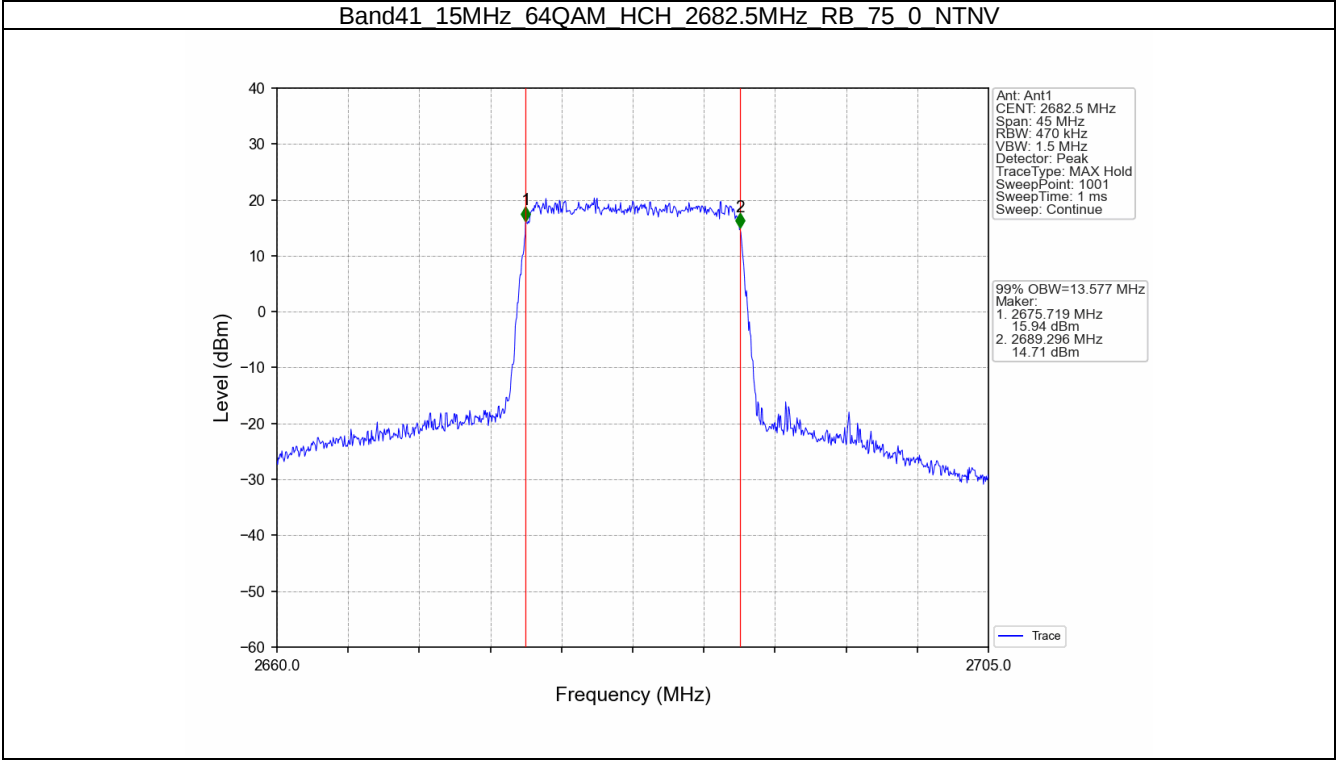
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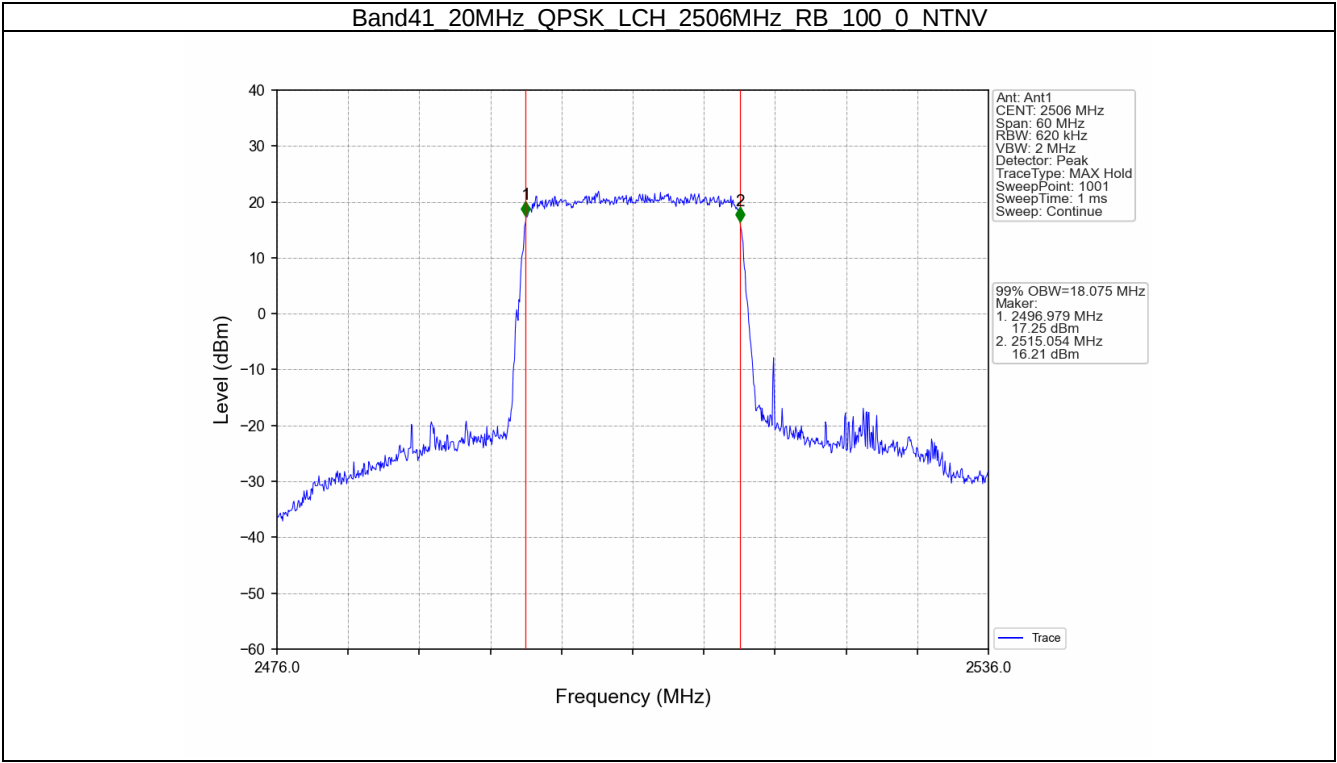
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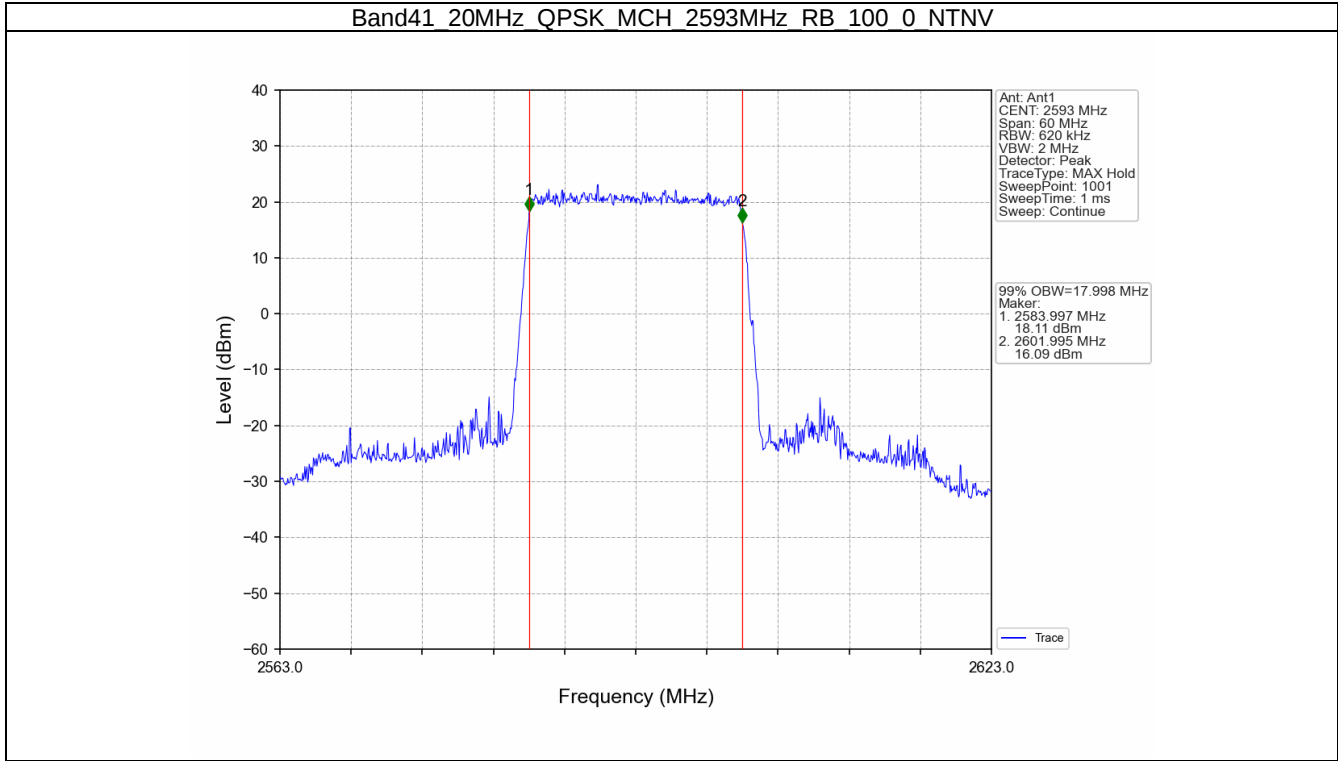
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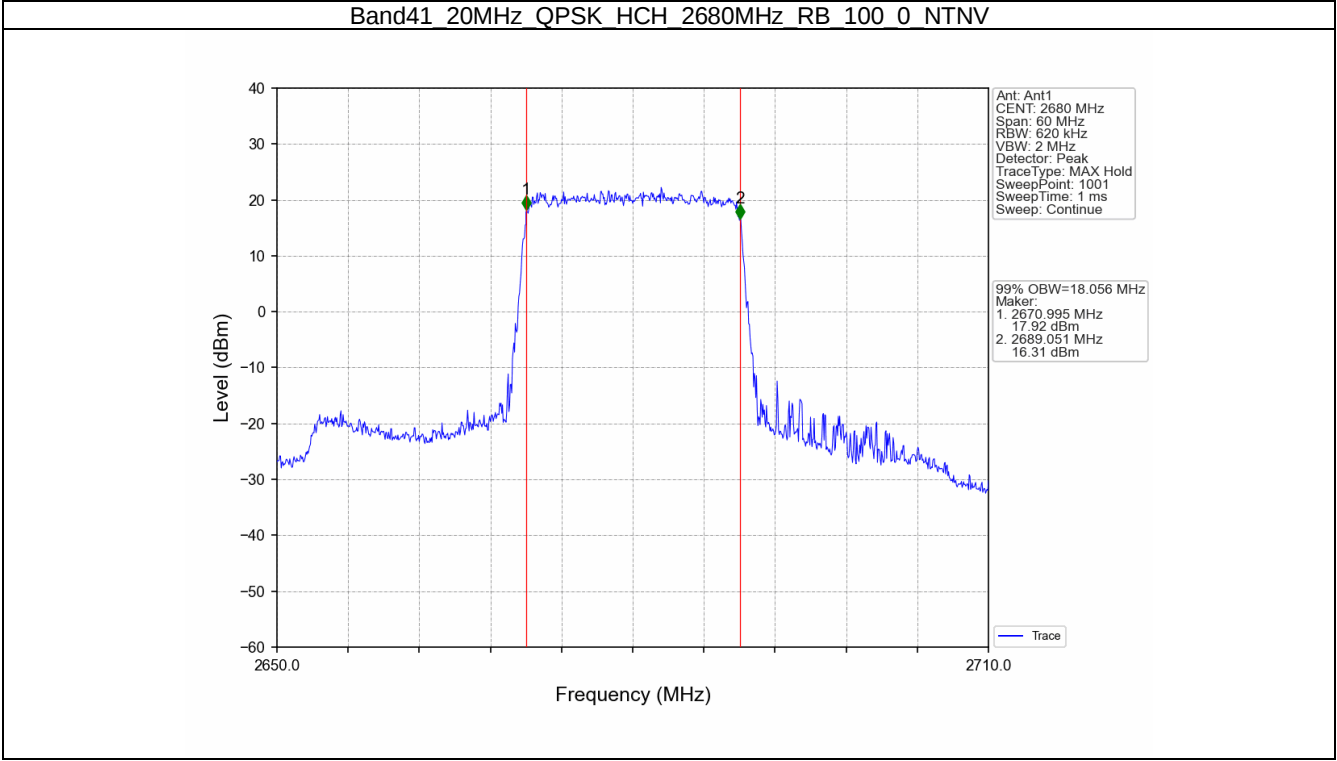
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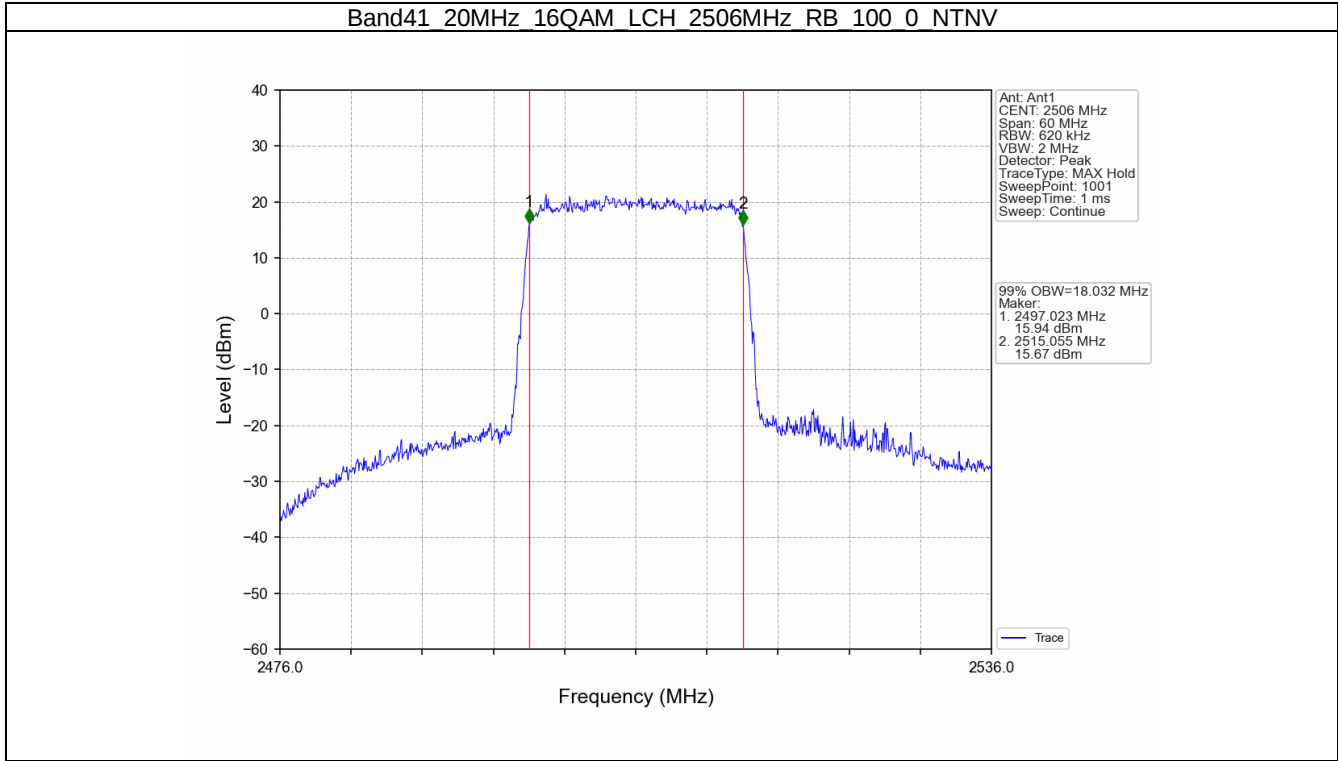
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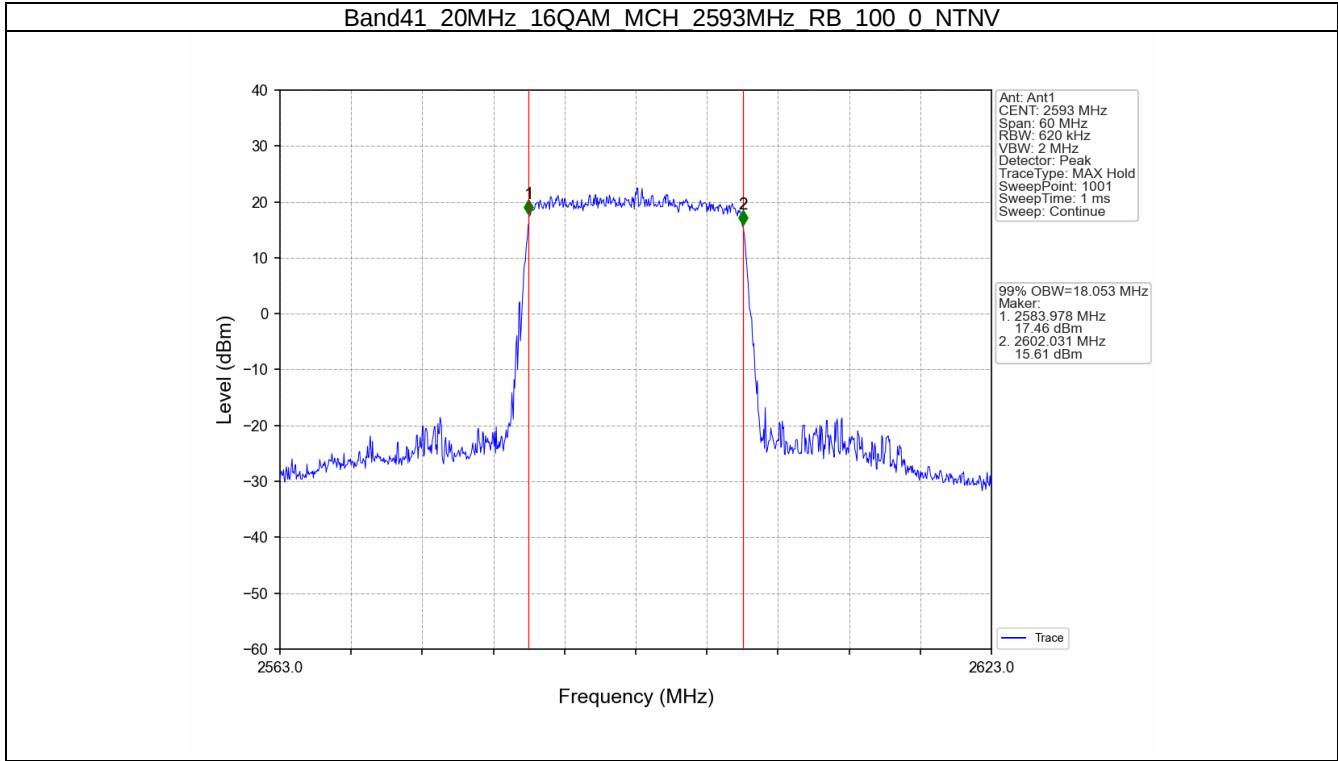
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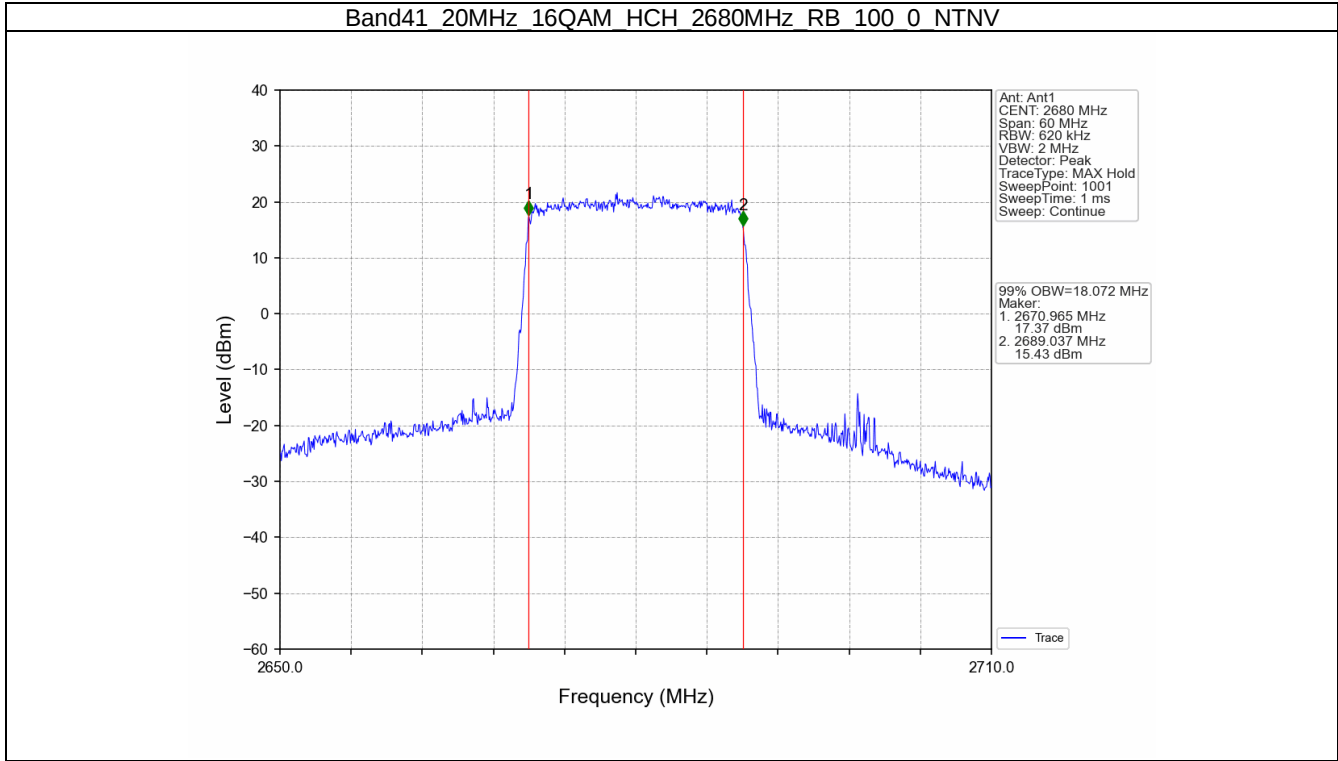
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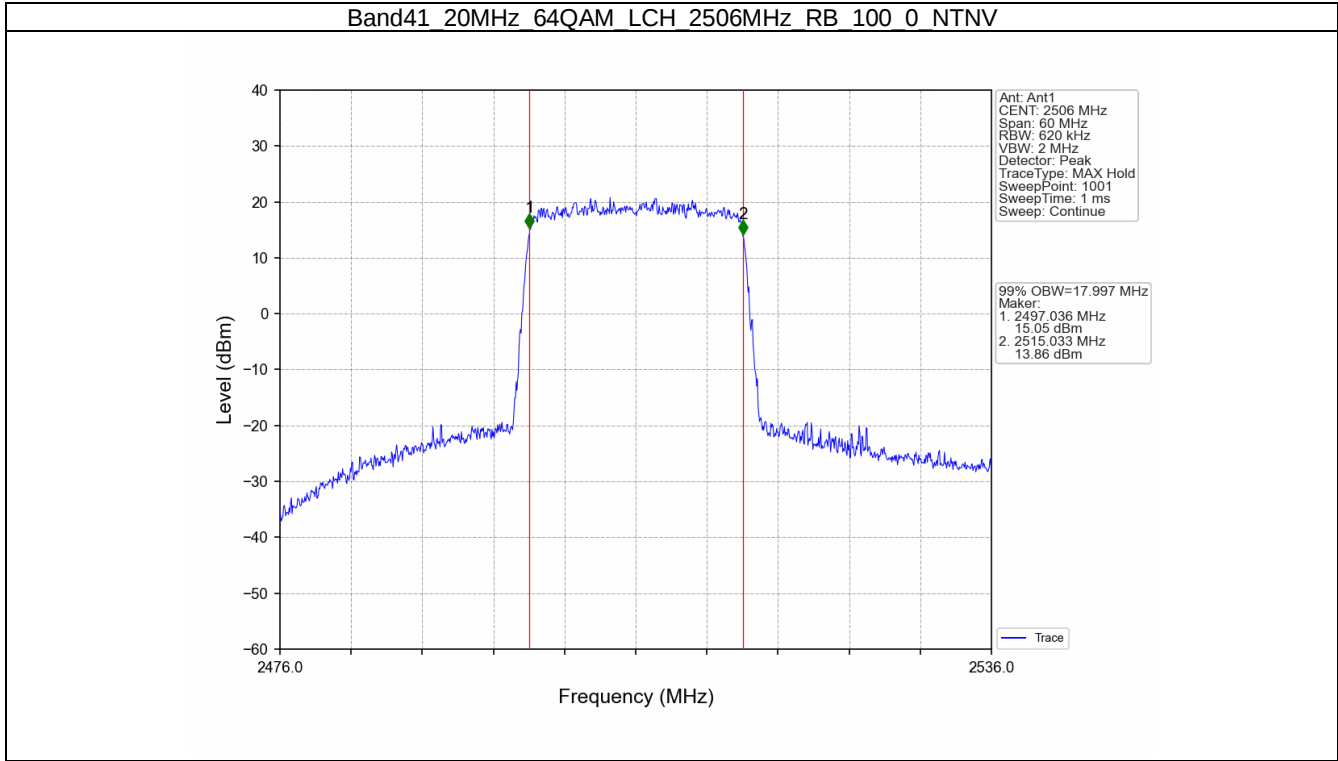
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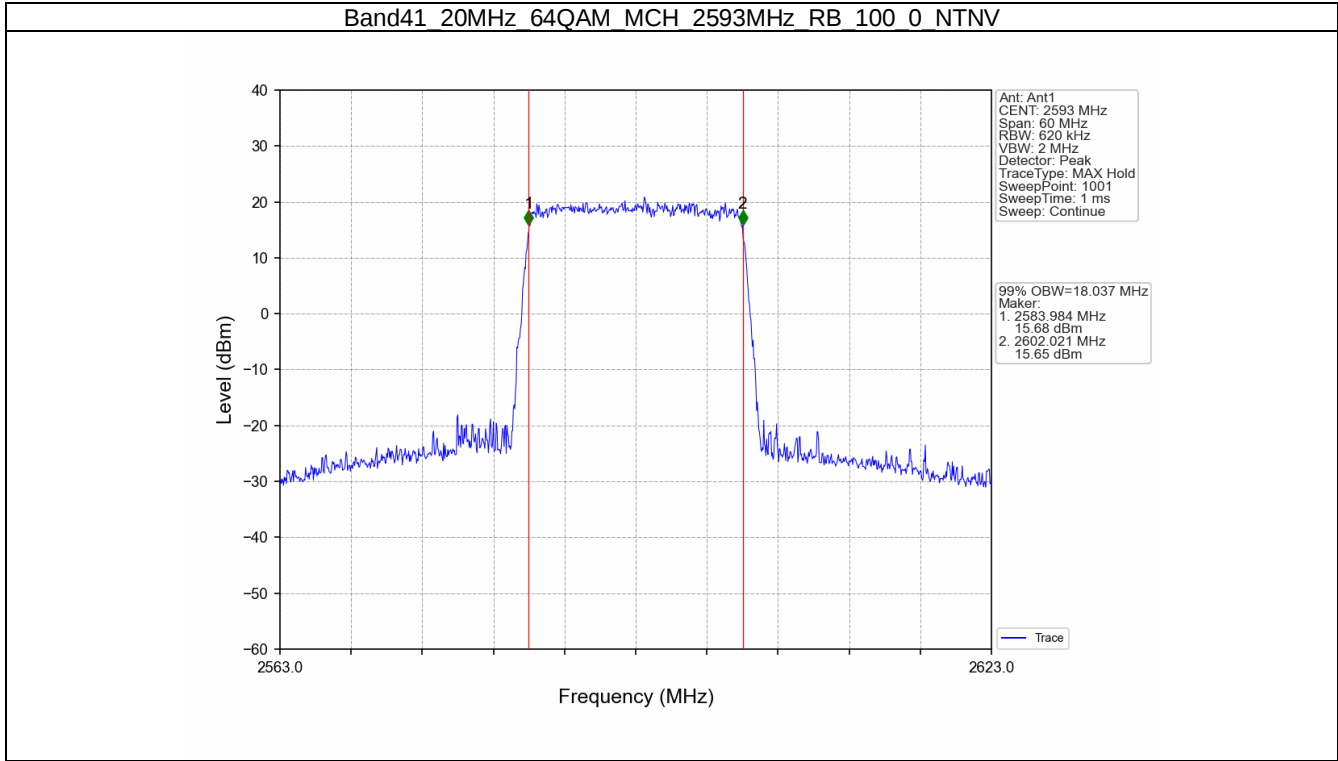
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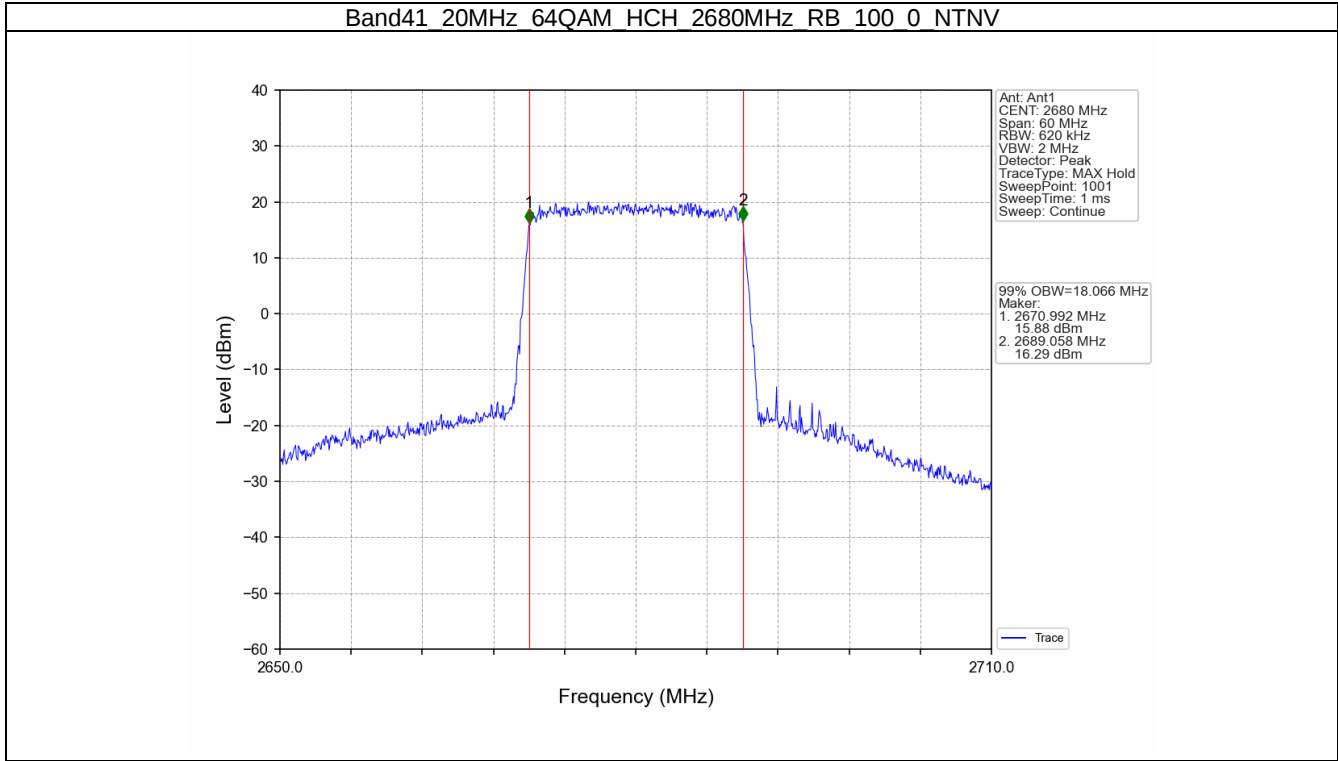
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### 2.2 Band41\_XDB

#### 2.2.1 Test Result

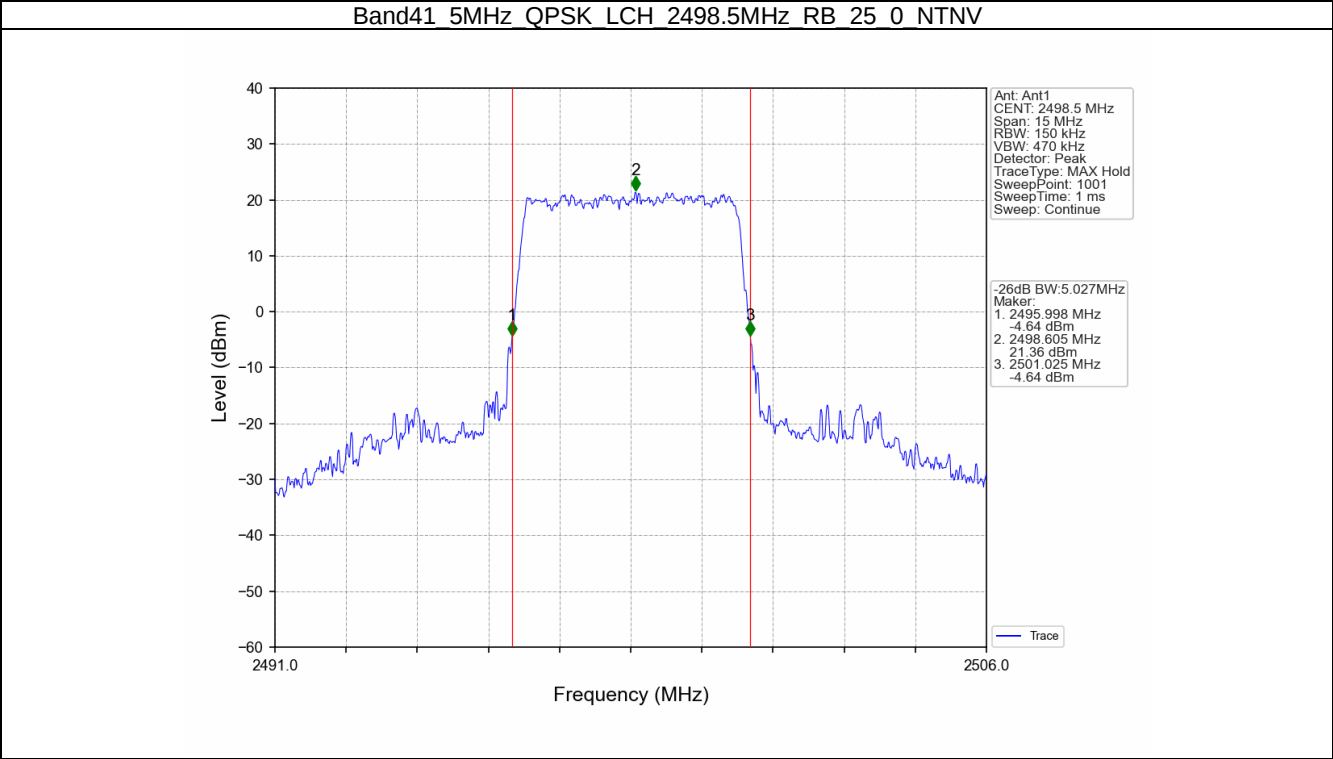
| Band: 41 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2498.5          | 25            | 0      | 5.027                | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 5.070                | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 5.034                | /     | Pass    |
|                 | 16QAM      | 2498.5          | 25            | 0      | 5.038                | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 5.024                | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 5.033                | /     | Pass    |
|                 | 64QAM      | 2498.5          | 25            | 0      | 5.037                | /     | Pass    |
|                 |            | 2593            | 25            | 0      | 4.998                | /     | Pass    |
|                 |            | 2687.5          | 25            | 0      | 5.067                | /     | Pass    |
| 10              | QPSK       | 2501            | 50            | 0      | 9.882                | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.936                | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.934                | /     | Pass    |
|                 | 16QAM      | 2501            | 50            | 0      | 9.951                | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.872                | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.971                | /     | Pass    |
|                 | 64QAM      | 2501            | 50            | 0      | 9.968                | /     | Pass    |
|                 |            | 2593            | 50            | 0      | 9.954                | /     | Pass    |
|                 |            | 2685            | 50            | 0      | 9.964                | /     | Pass    |
| 15              | QPSK       | 2503.5          | 75            | 0      | 15.009               | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 14.851               | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 14.943               | /     | Pass    |
|                 | 16QAM      | 2503.5          | 75            | 0      | 14.869               | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 14.898               | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 14.841               | /     | Pass    |
|                 | 64QAM      | 2503.5          | 75            | 0      | 14.966               | /     | Pass    |
|                 |            | 2593            | 75            | 0      | 14.997               | /     | Pass    |
|                 |            | 2682.5          | 75            | 0      | 14.954               | /     | Pass    |
| 20              | QPSK       | 2506            | 100           | 0      | 19.810               | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 19.738               | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 19.810               | /     | Pass    |
|                 | 16QAM      | 2506            | 100           | 0      | 19.862               | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 19.724               | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 19.748               | /     | Pass    |
|                 | 64QAM      | 2506            | 100           | 0      | 19.722               | /     | Pass    |
|                 |            | 2593            | 100           | 0      | 19.822               | /     | Pass    |
|                 |            | 2680            | 100           | 0      | 19.881               | /     | Pass    |



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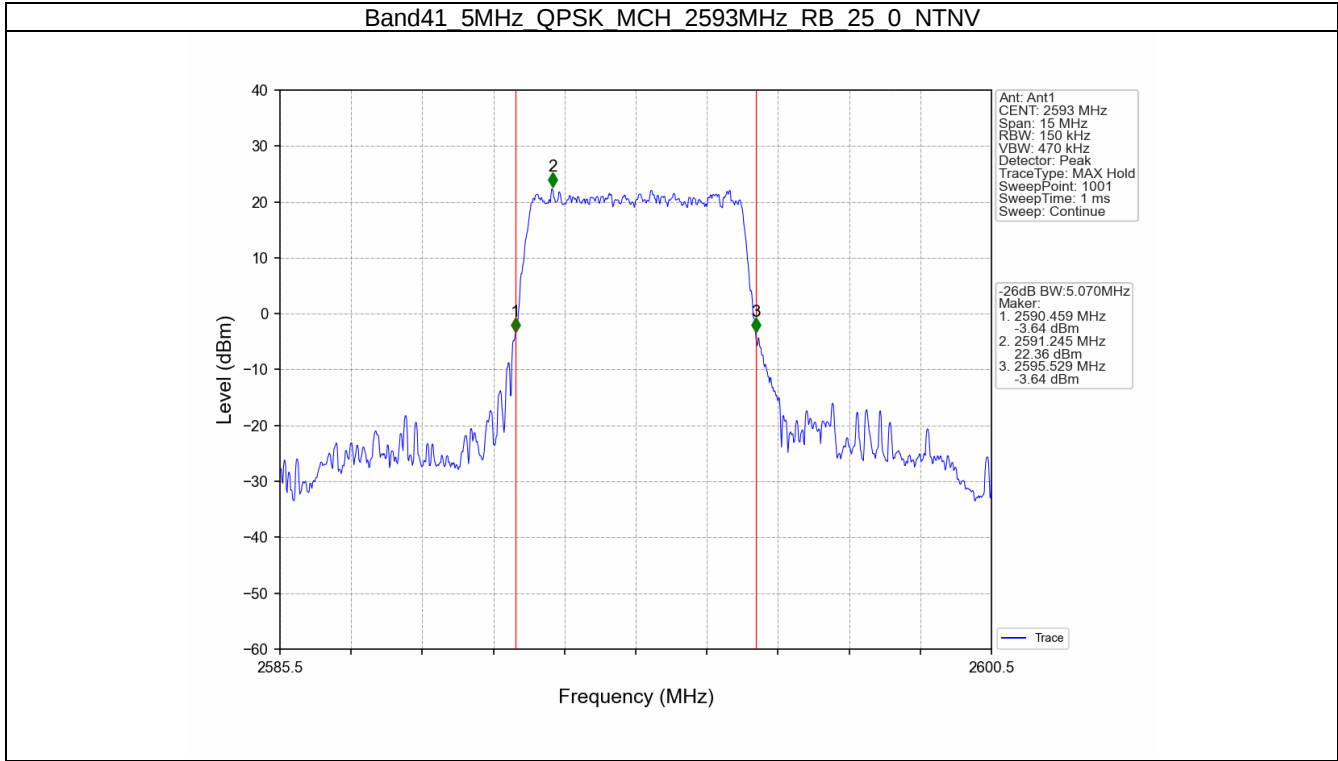
2.2.2 Test Graph





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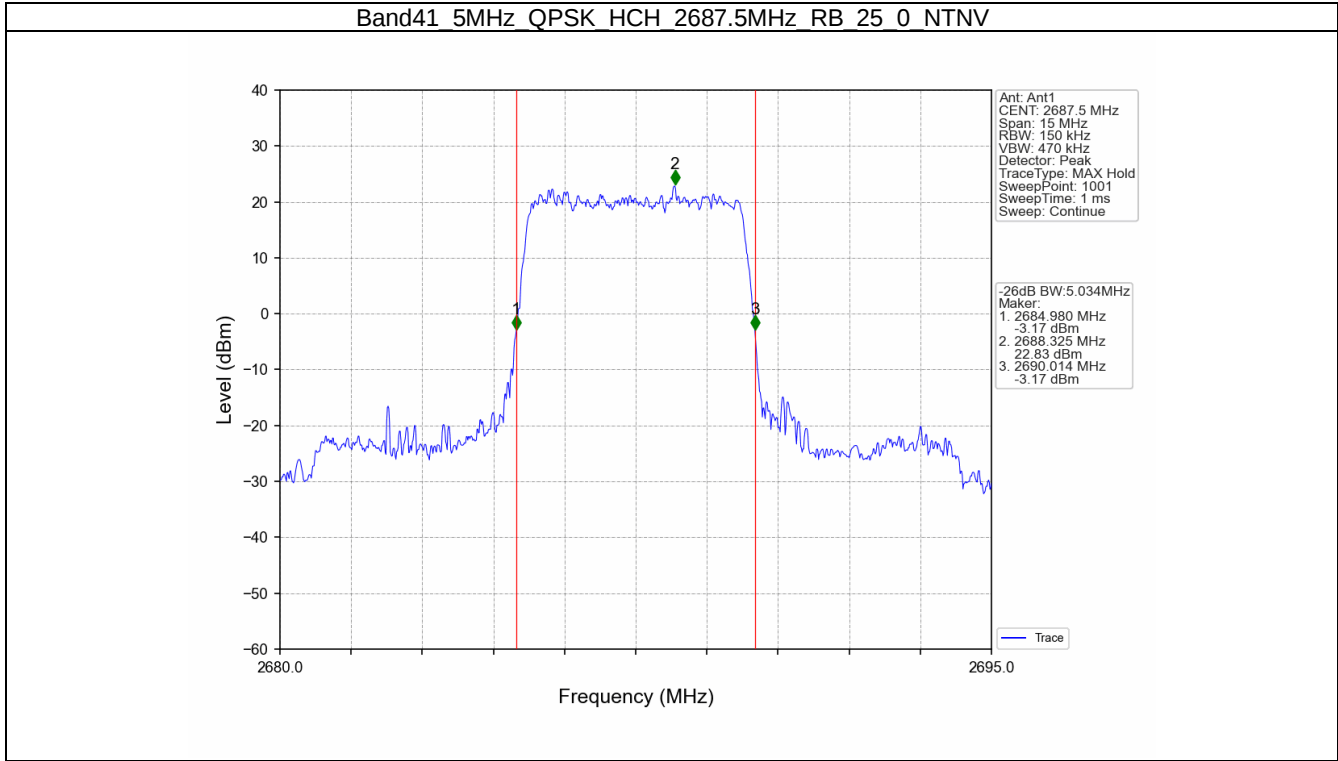
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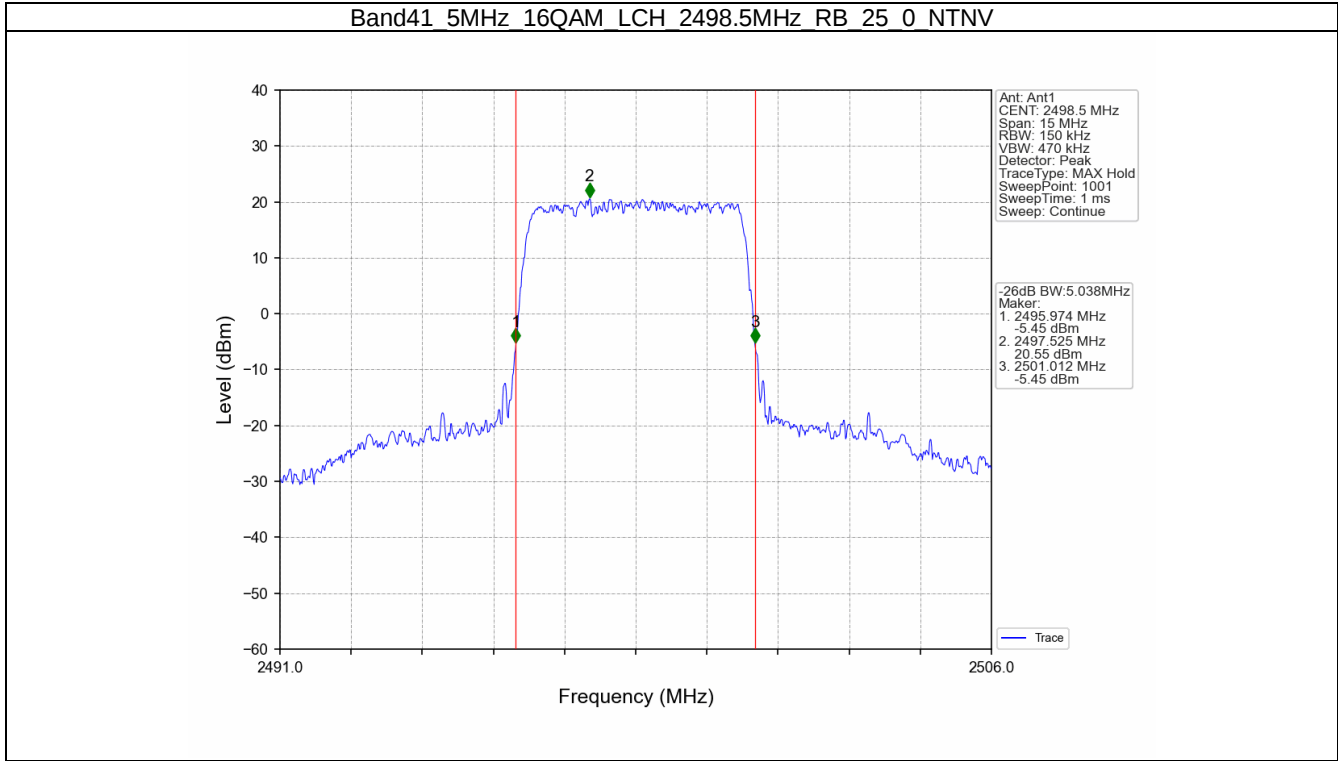
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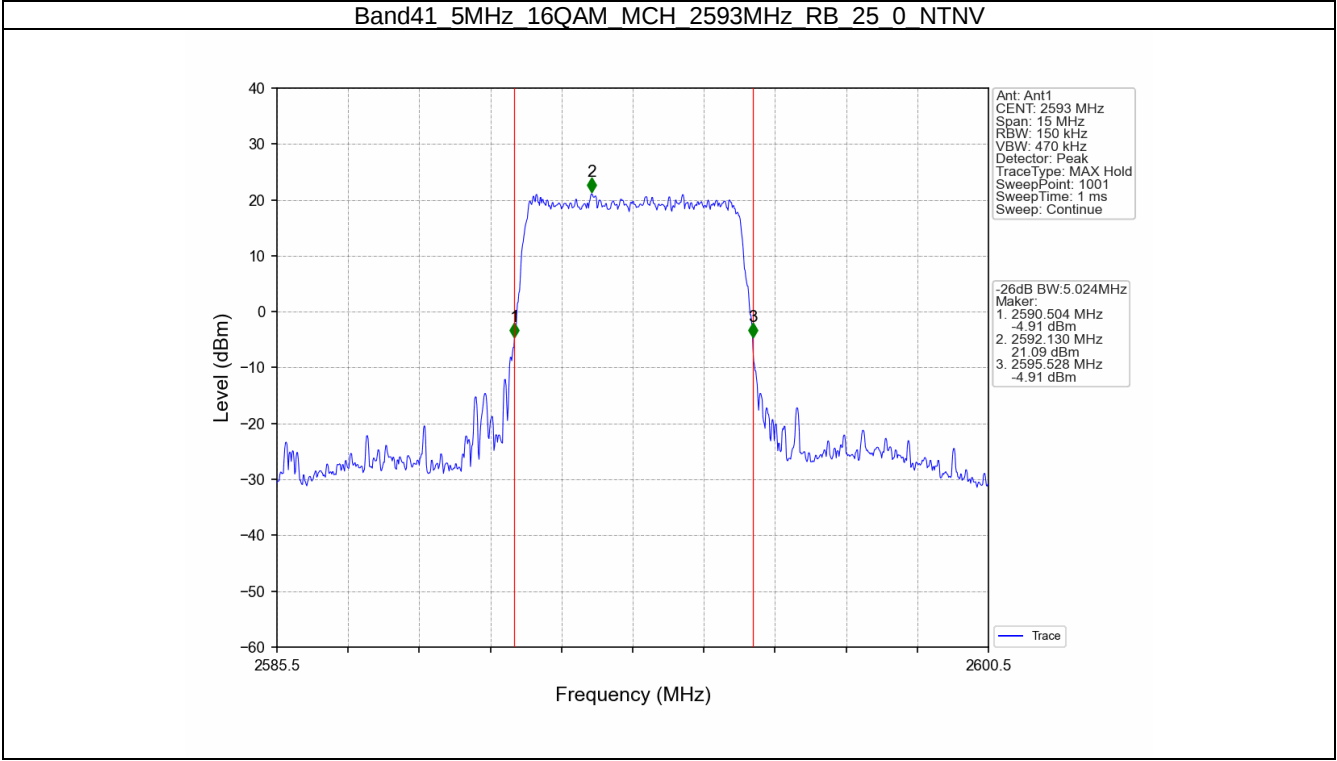
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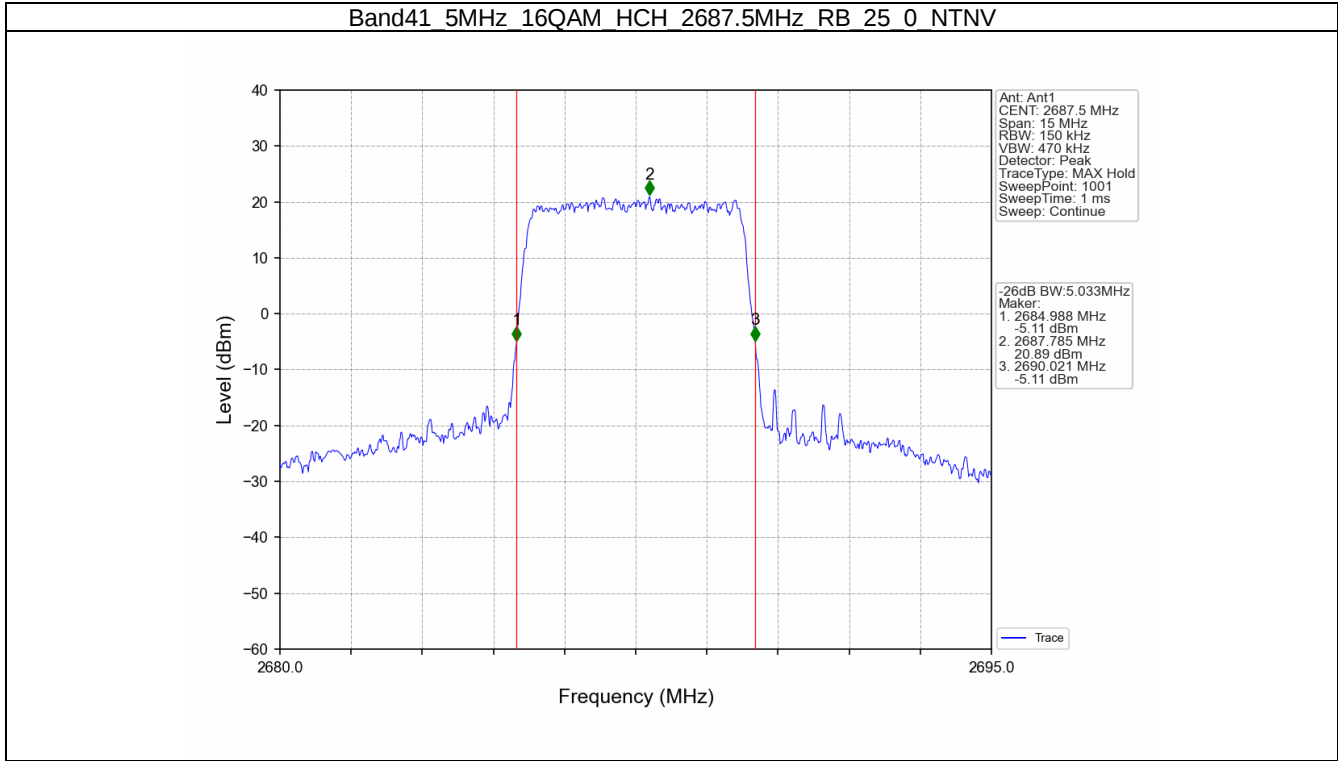
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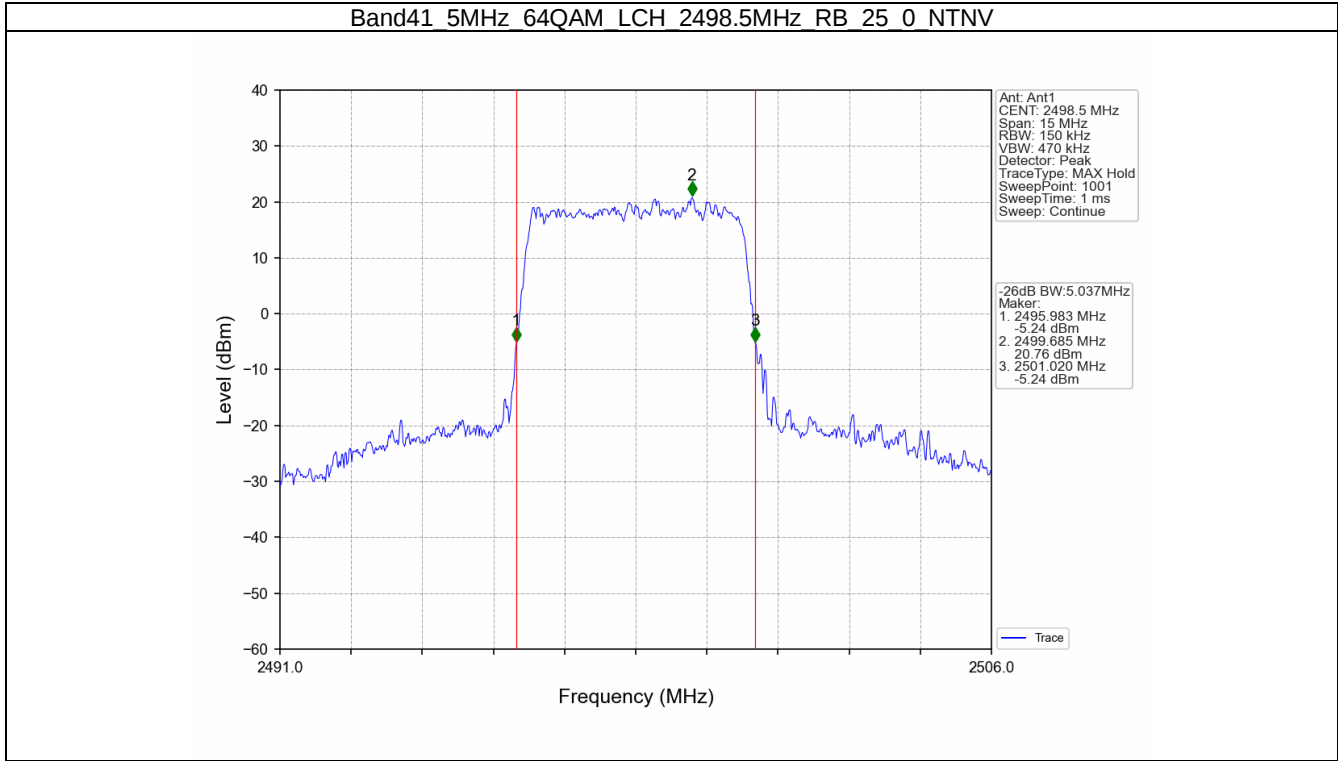
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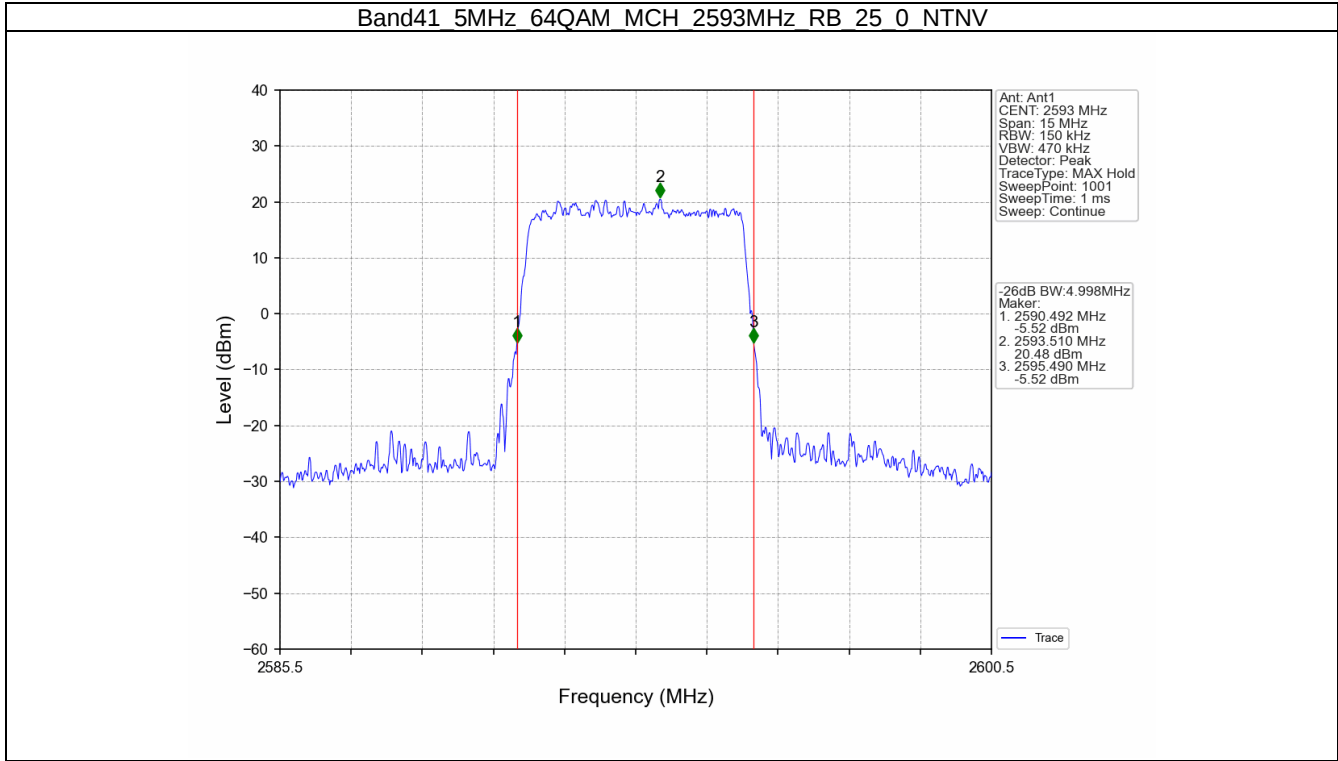
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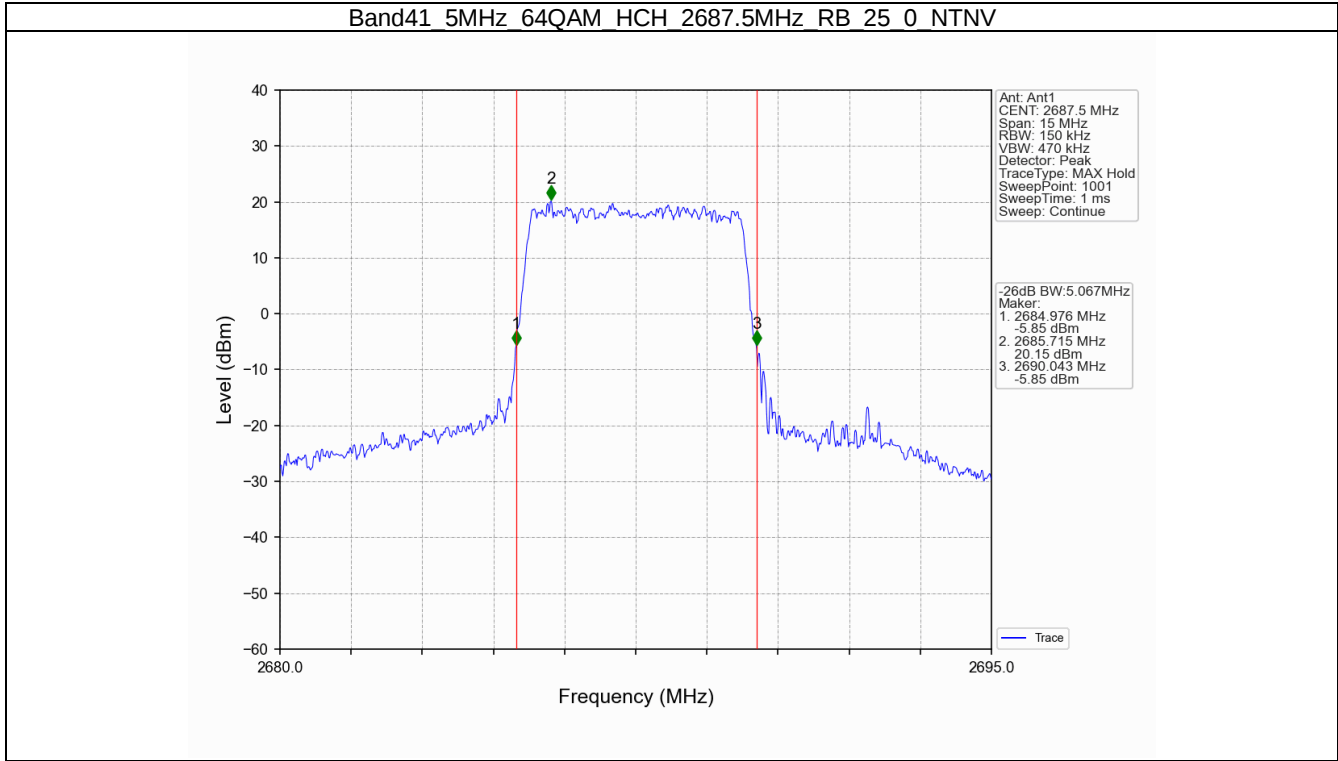
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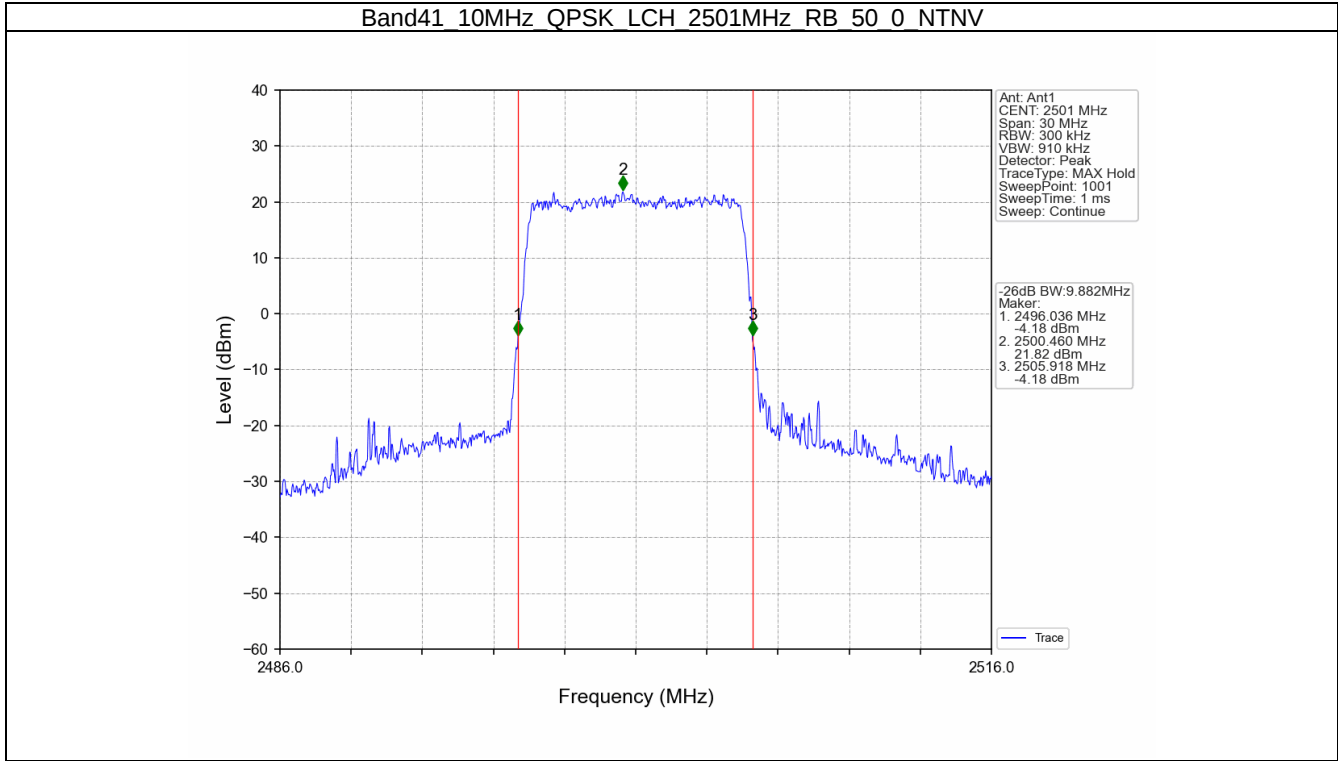
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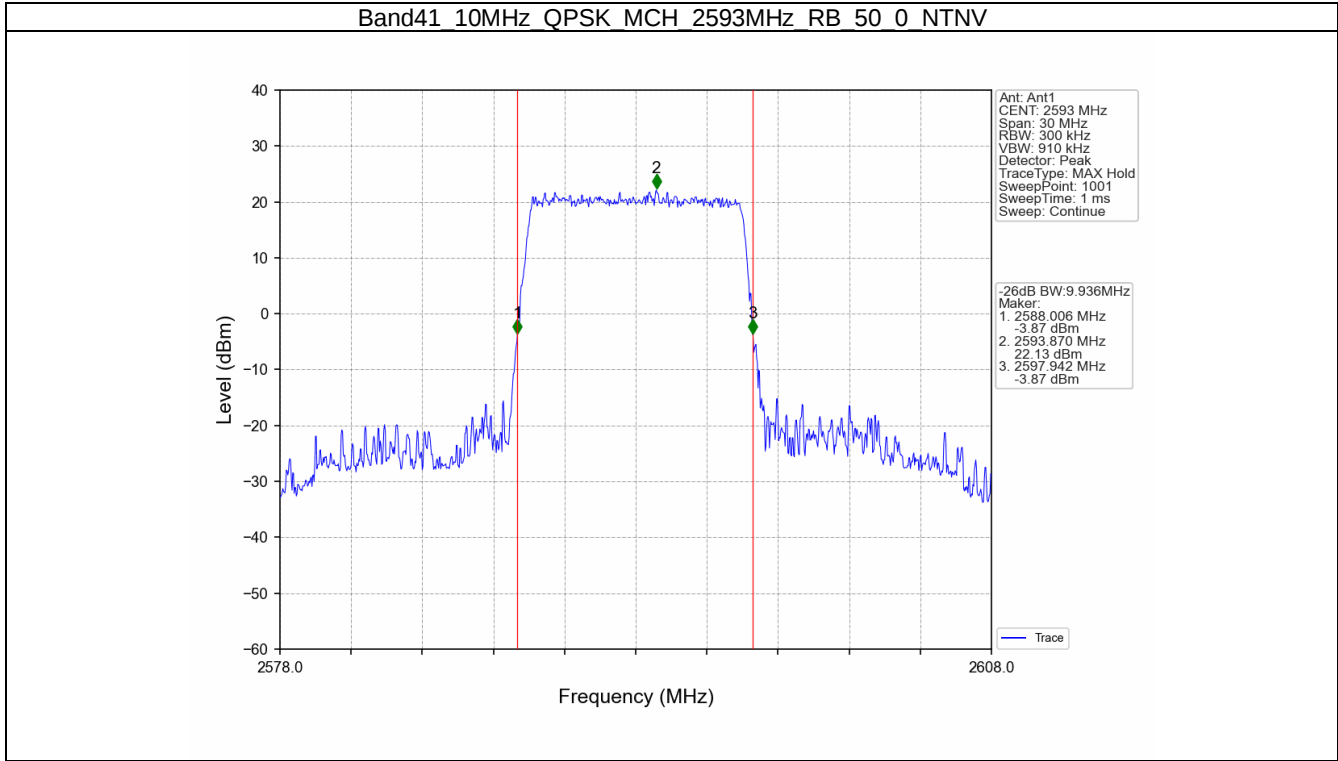




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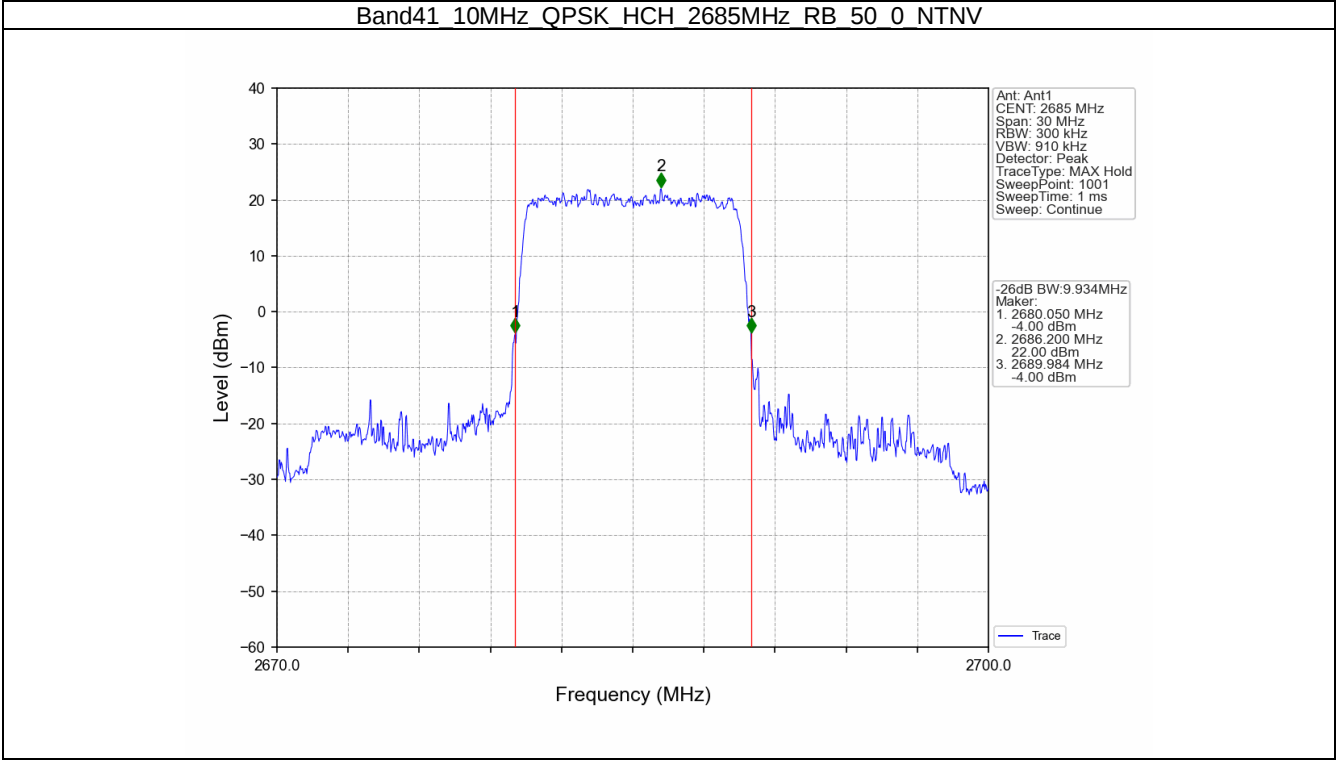
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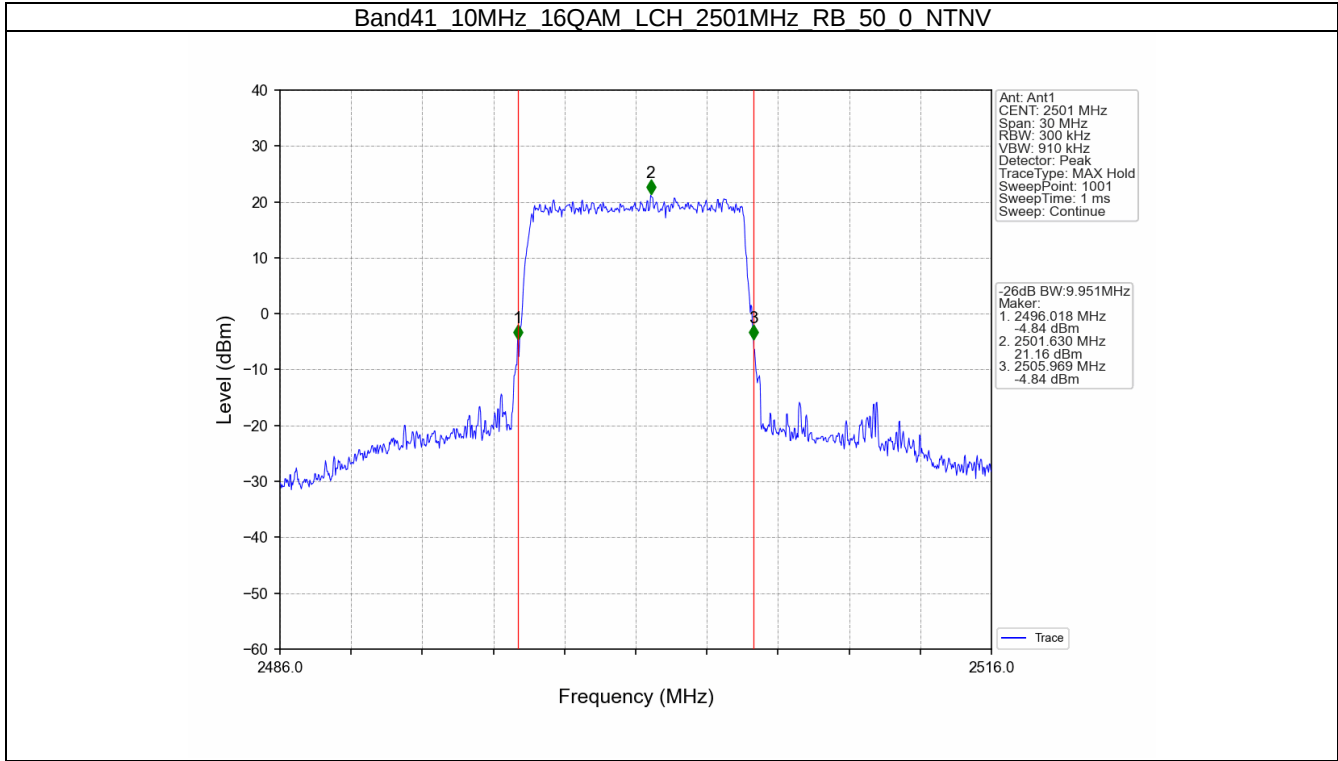




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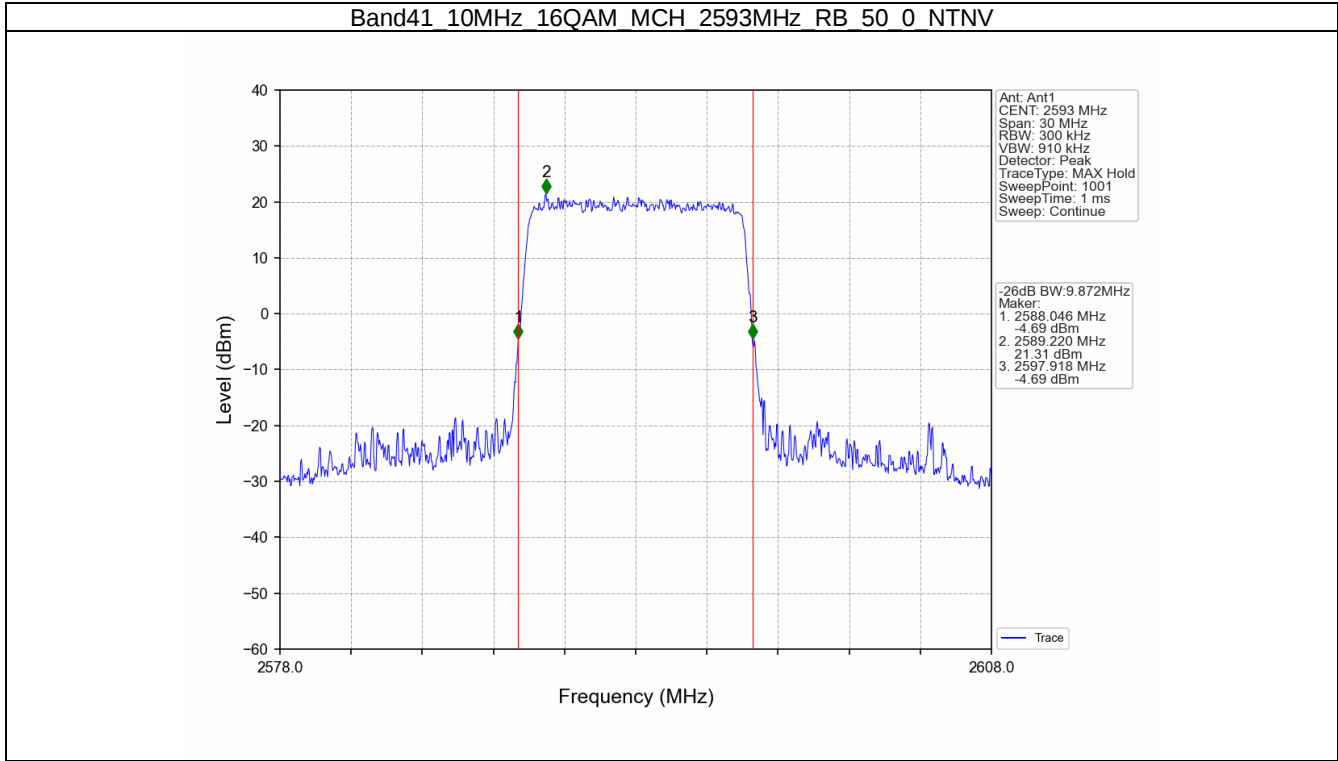




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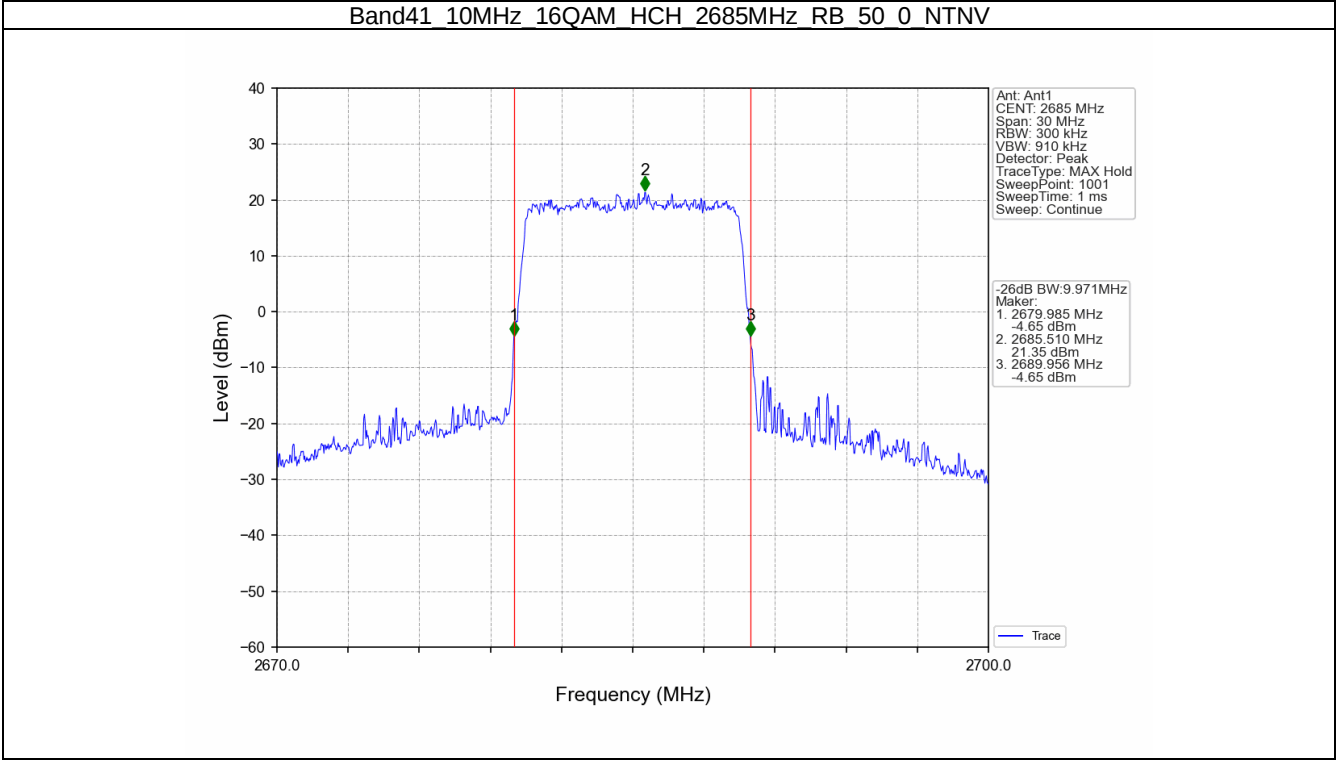
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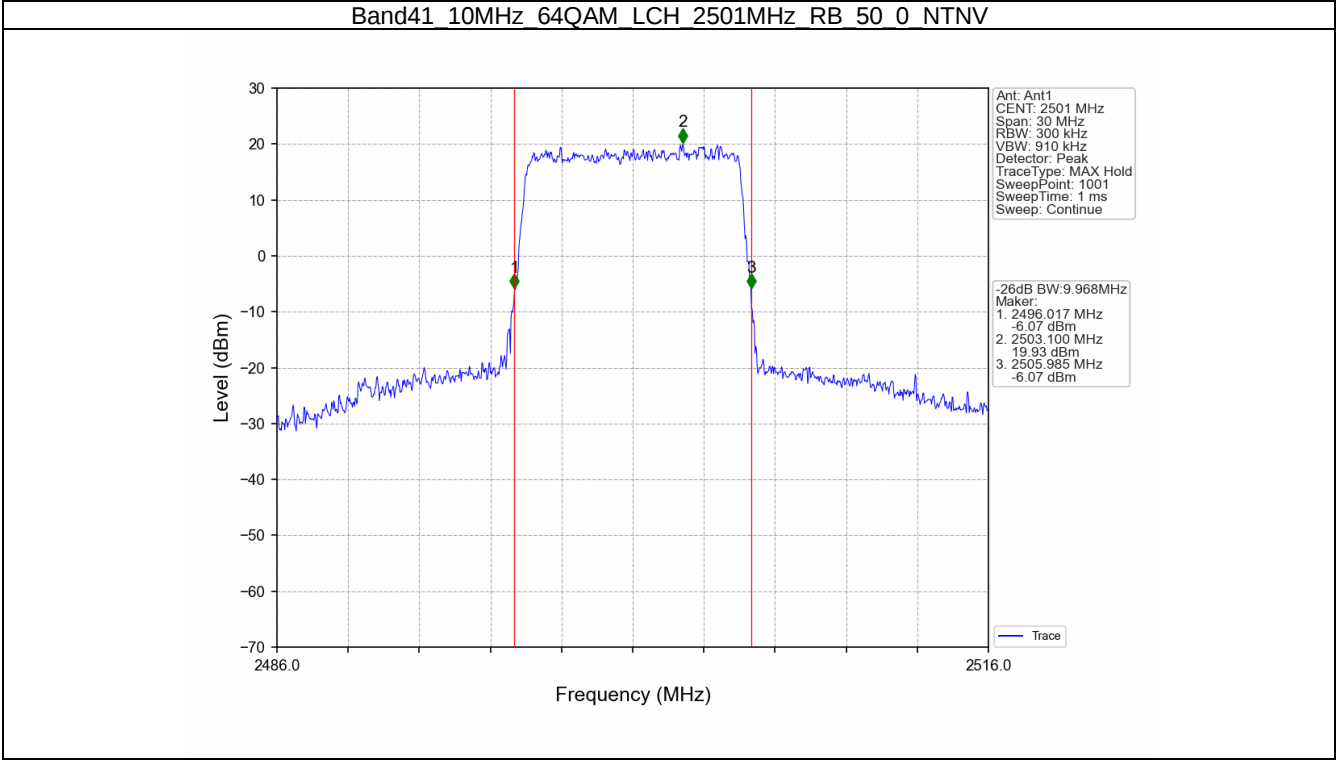
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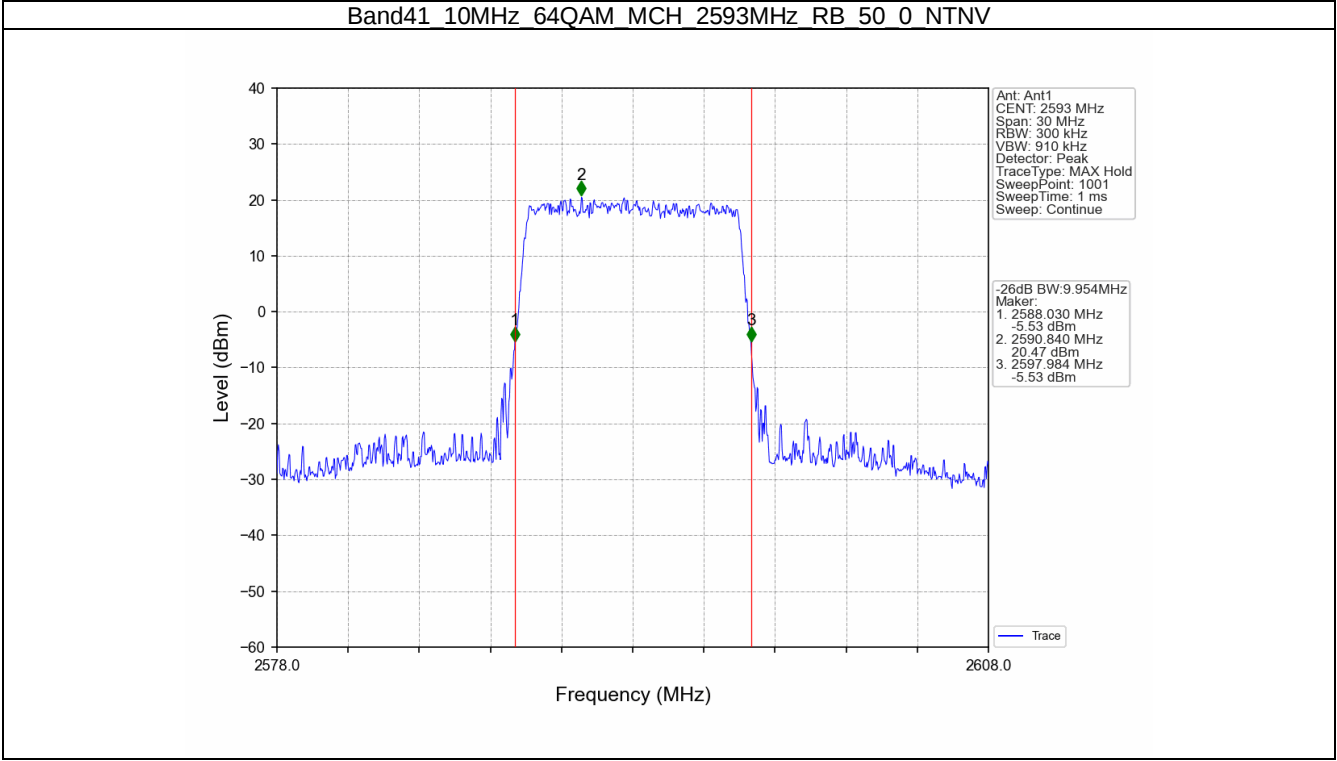
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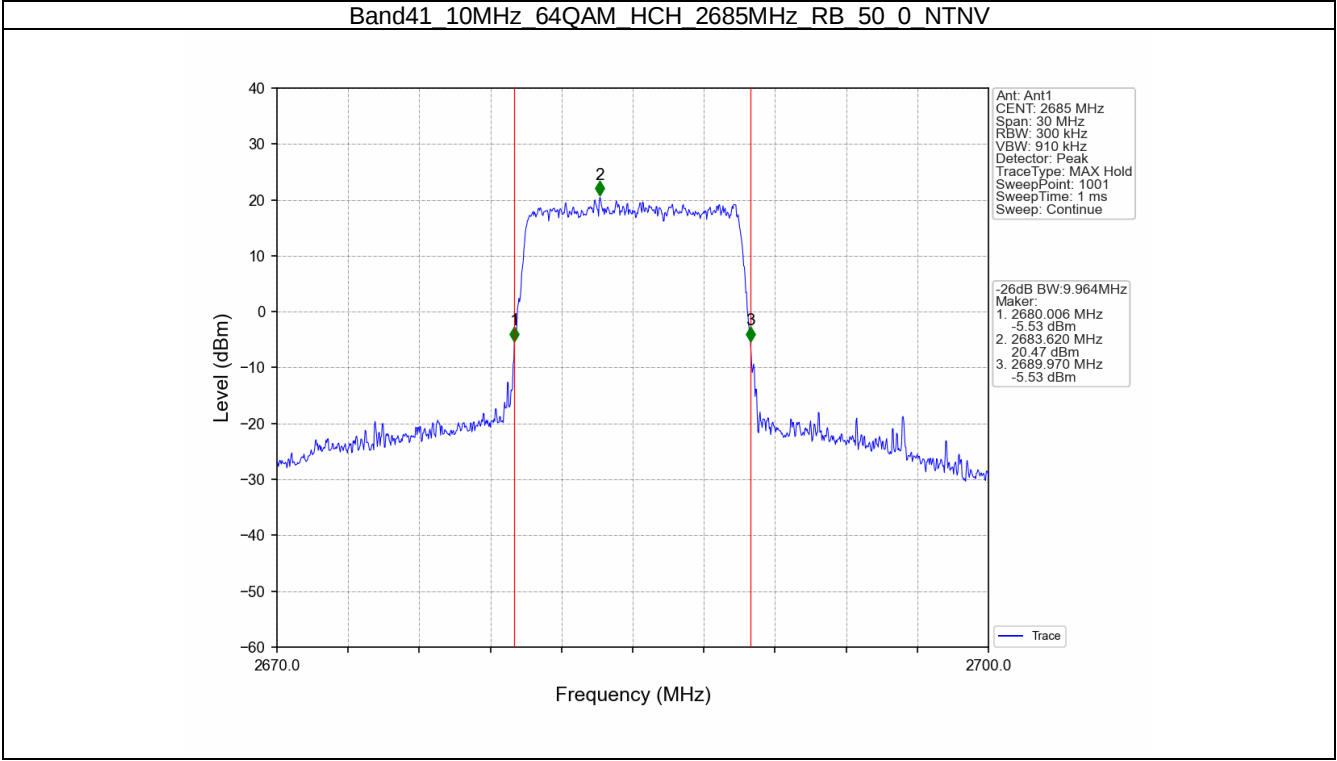
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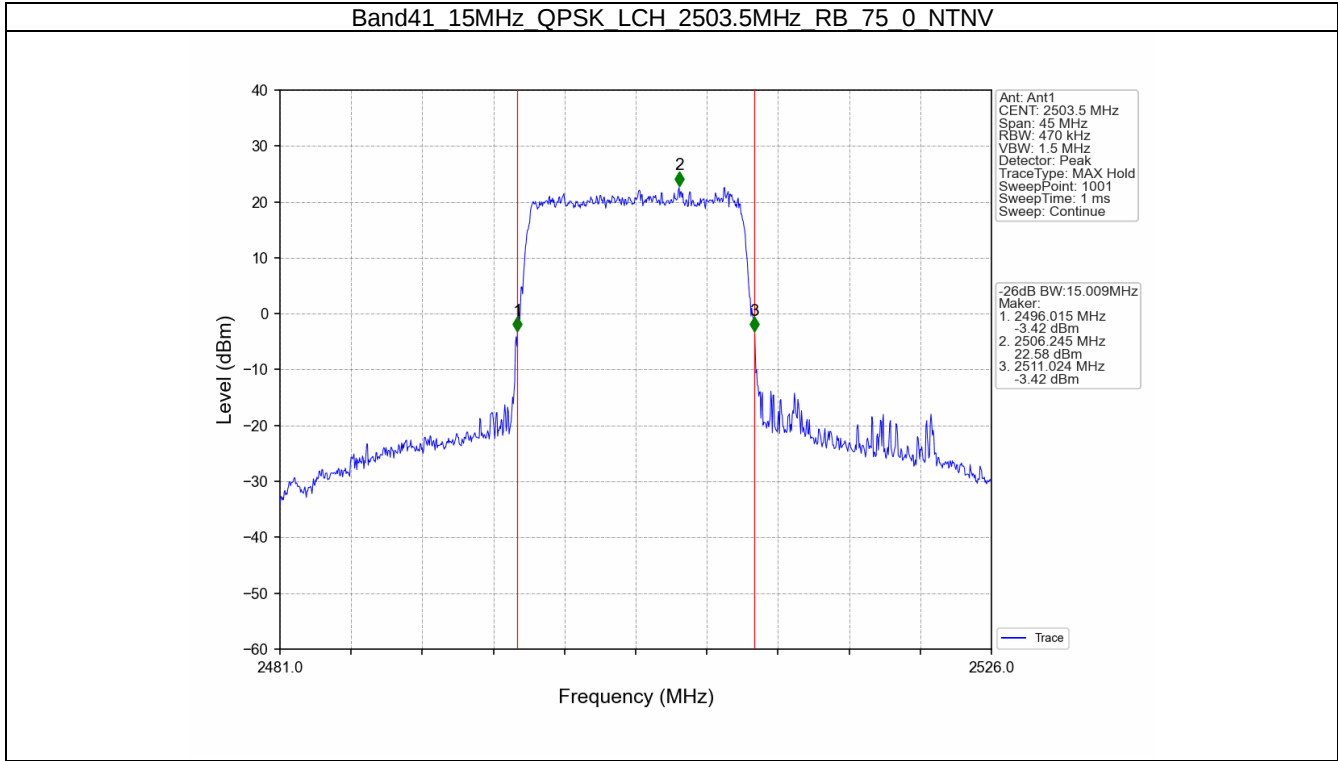
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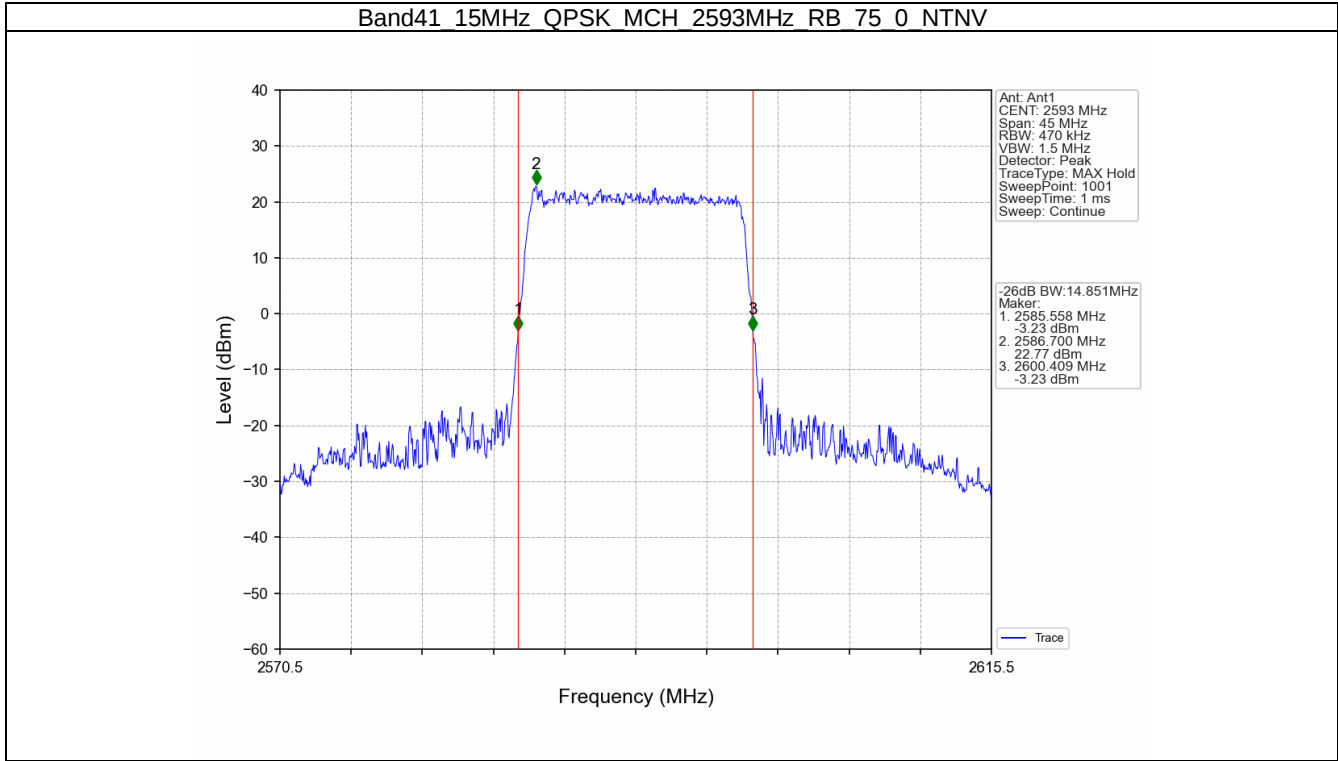
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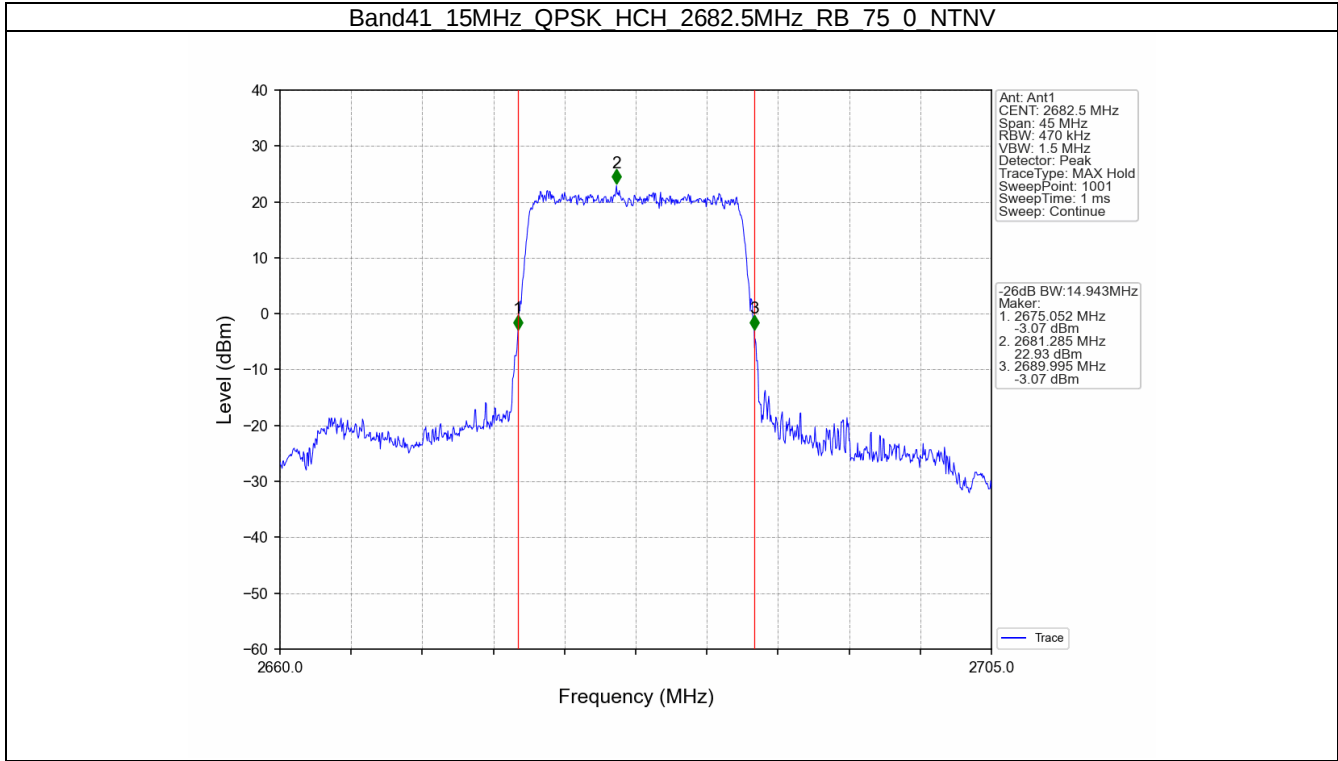
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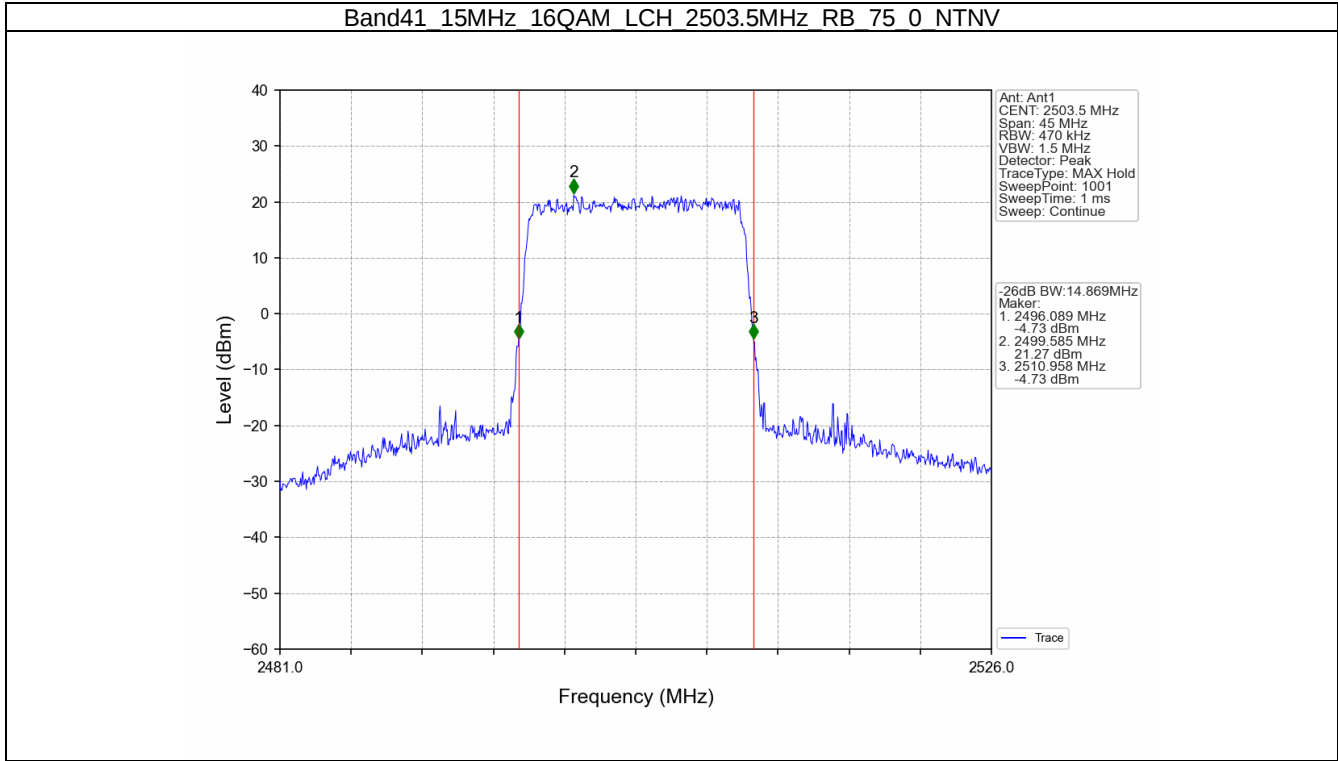
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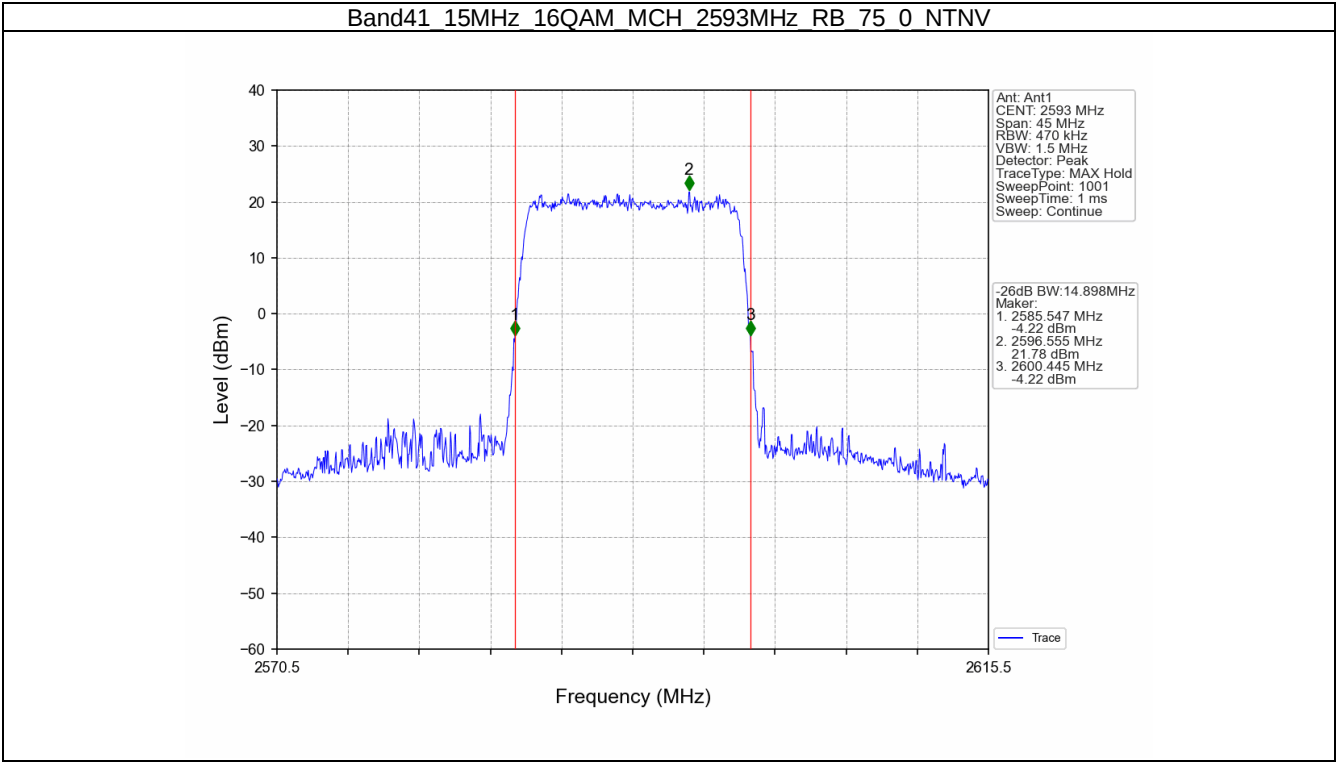




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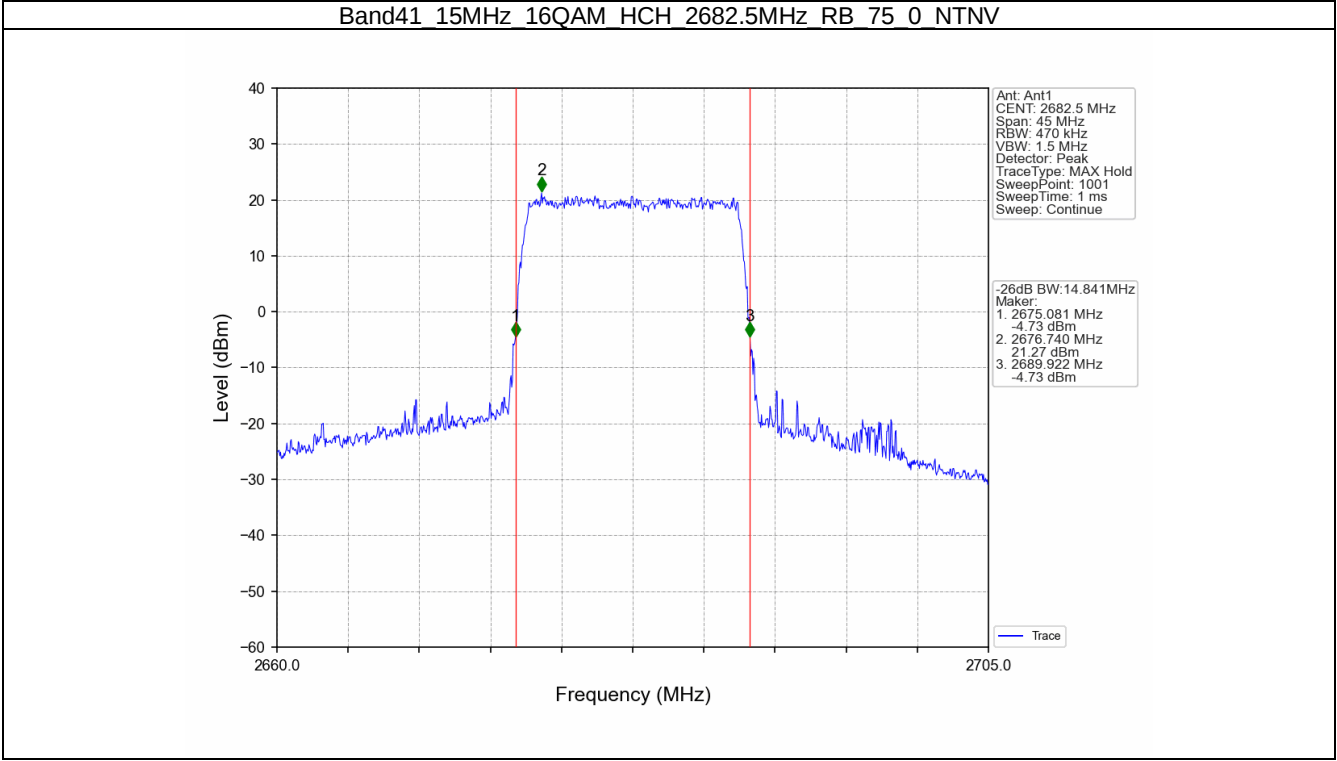
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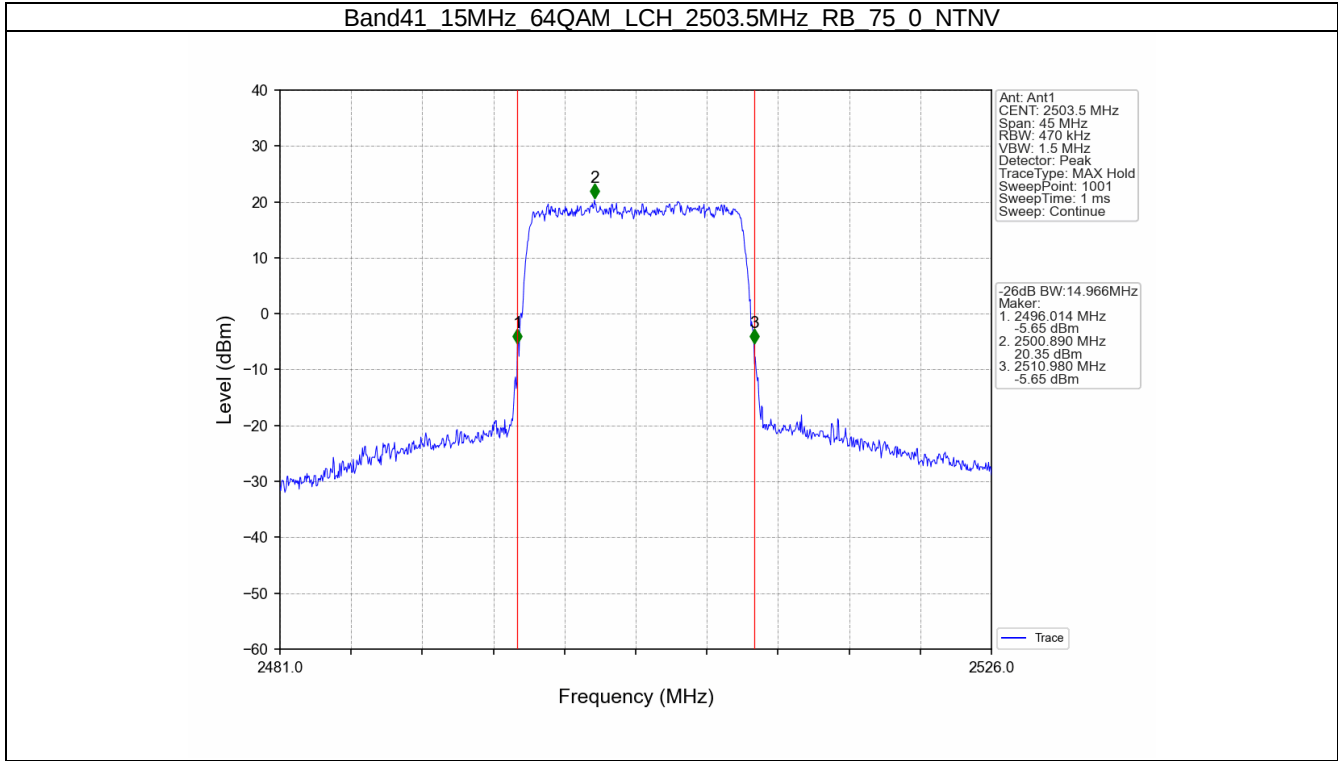
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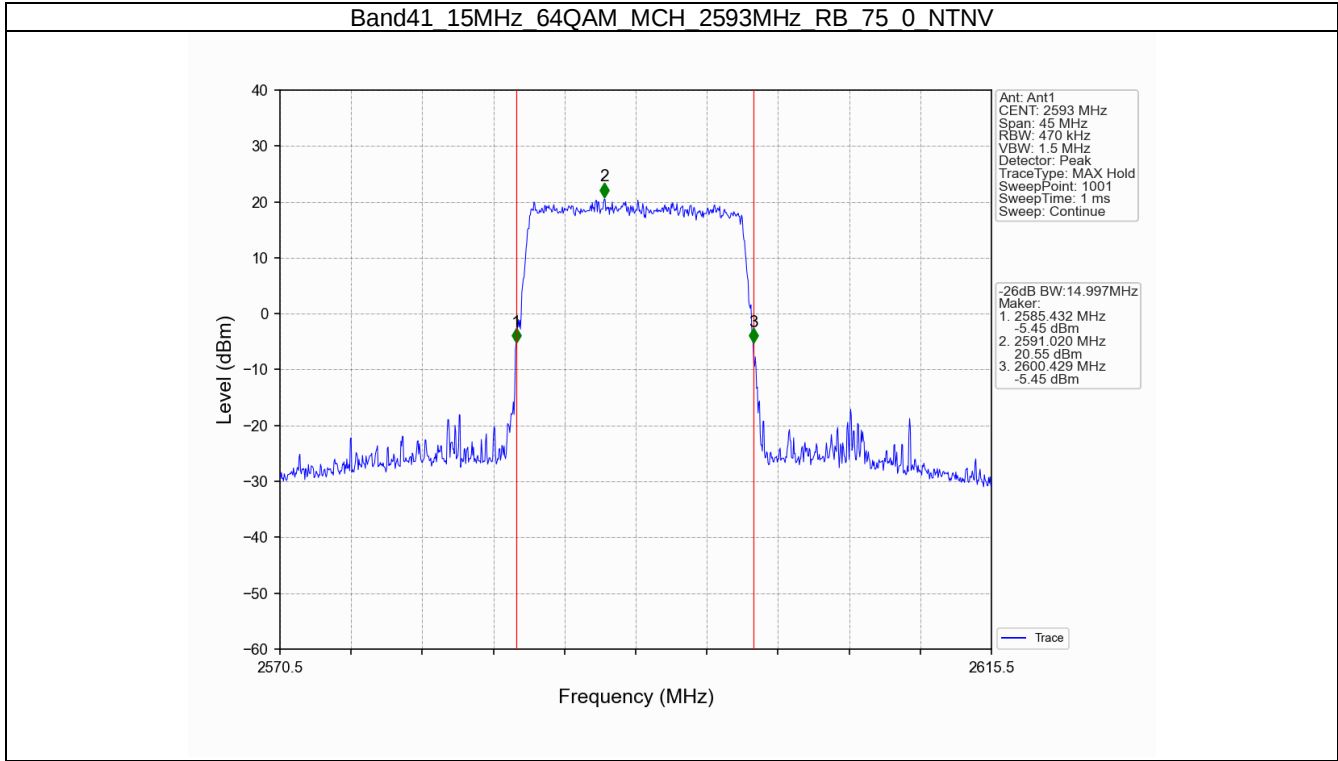
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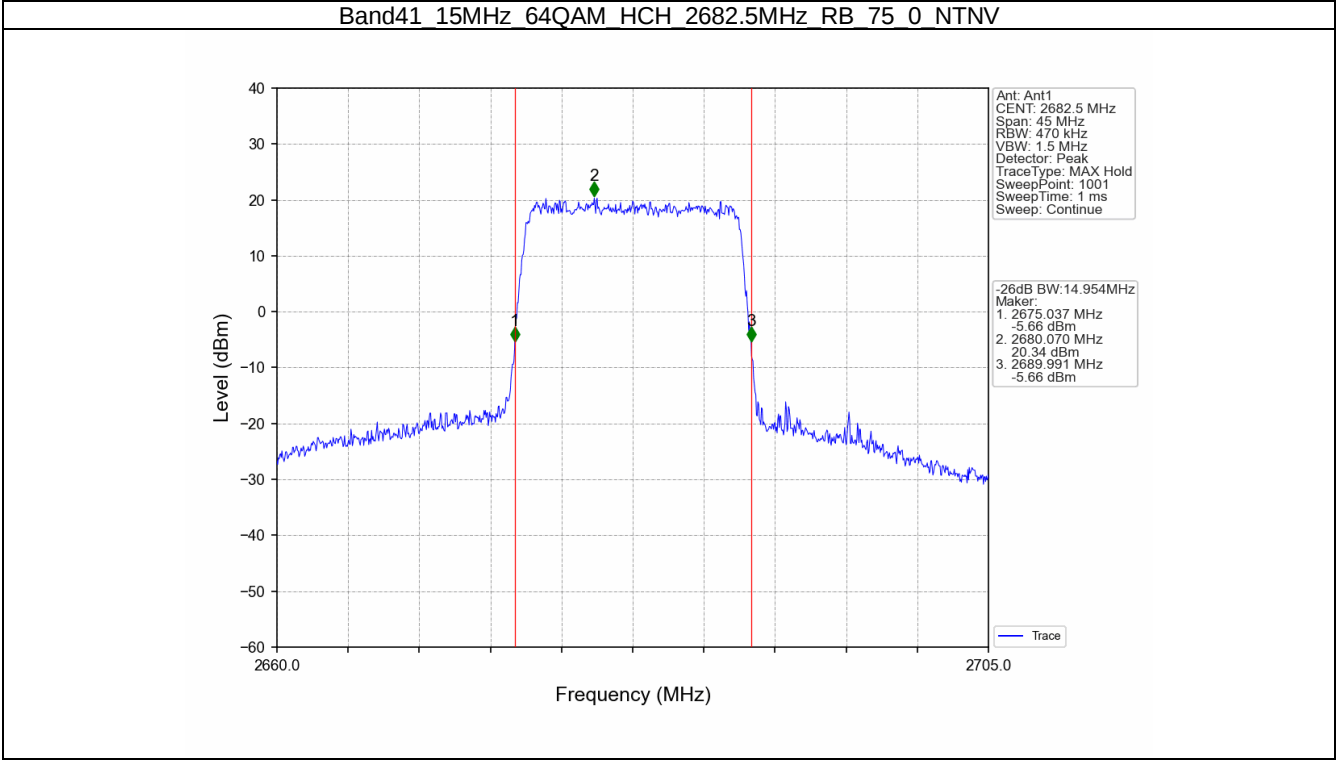




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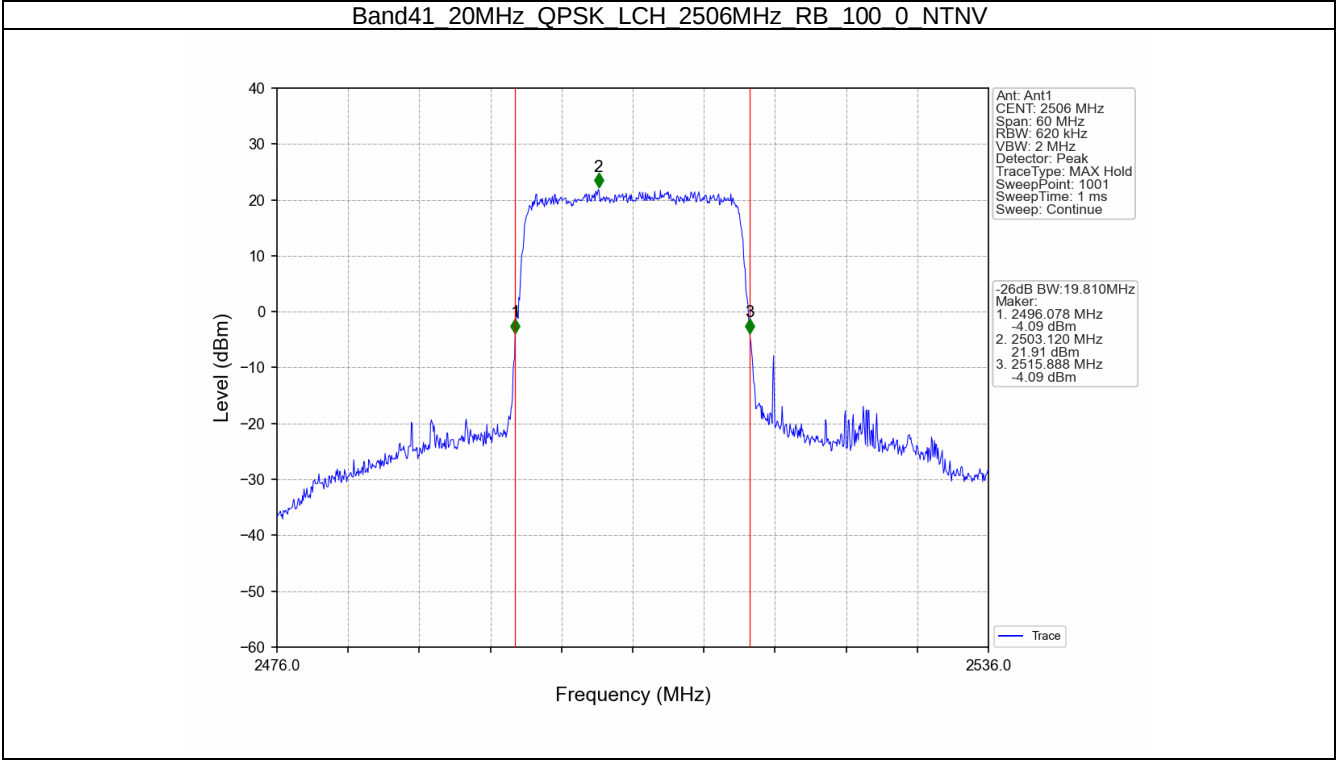
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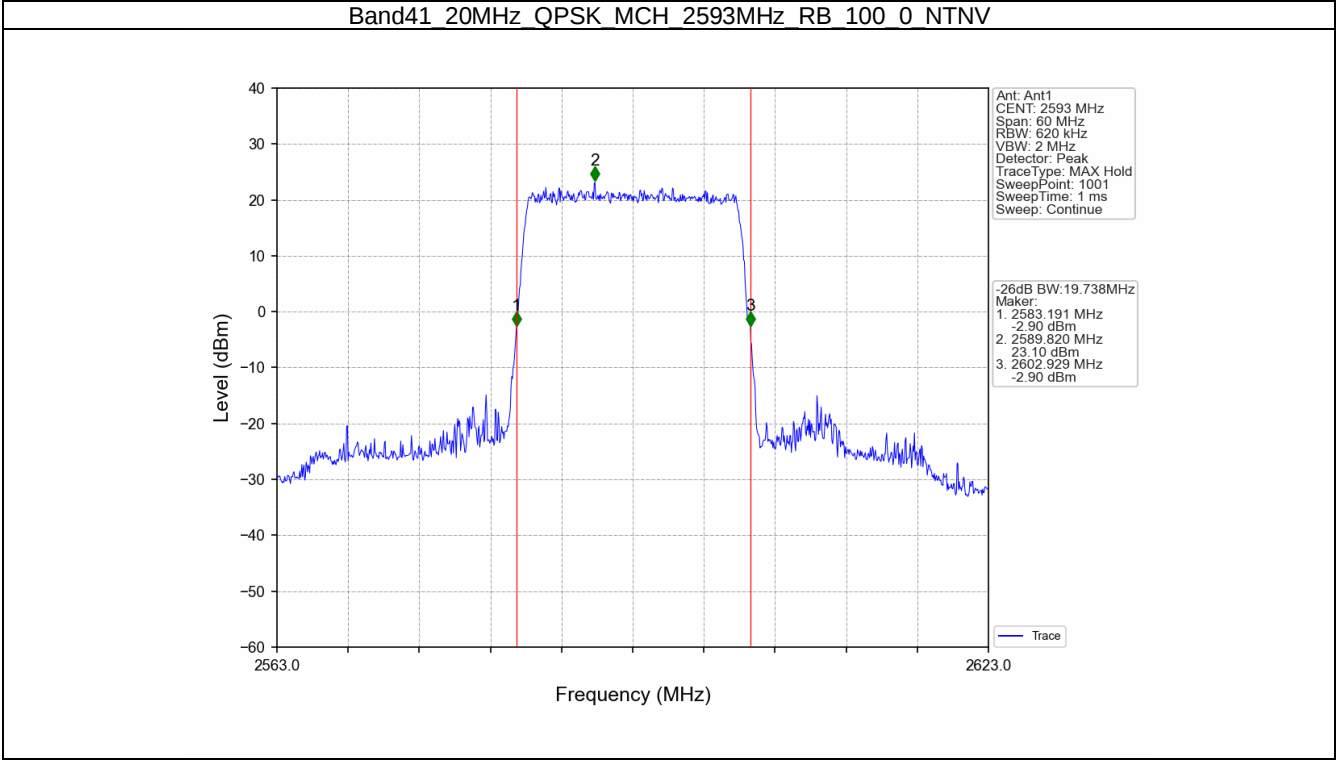
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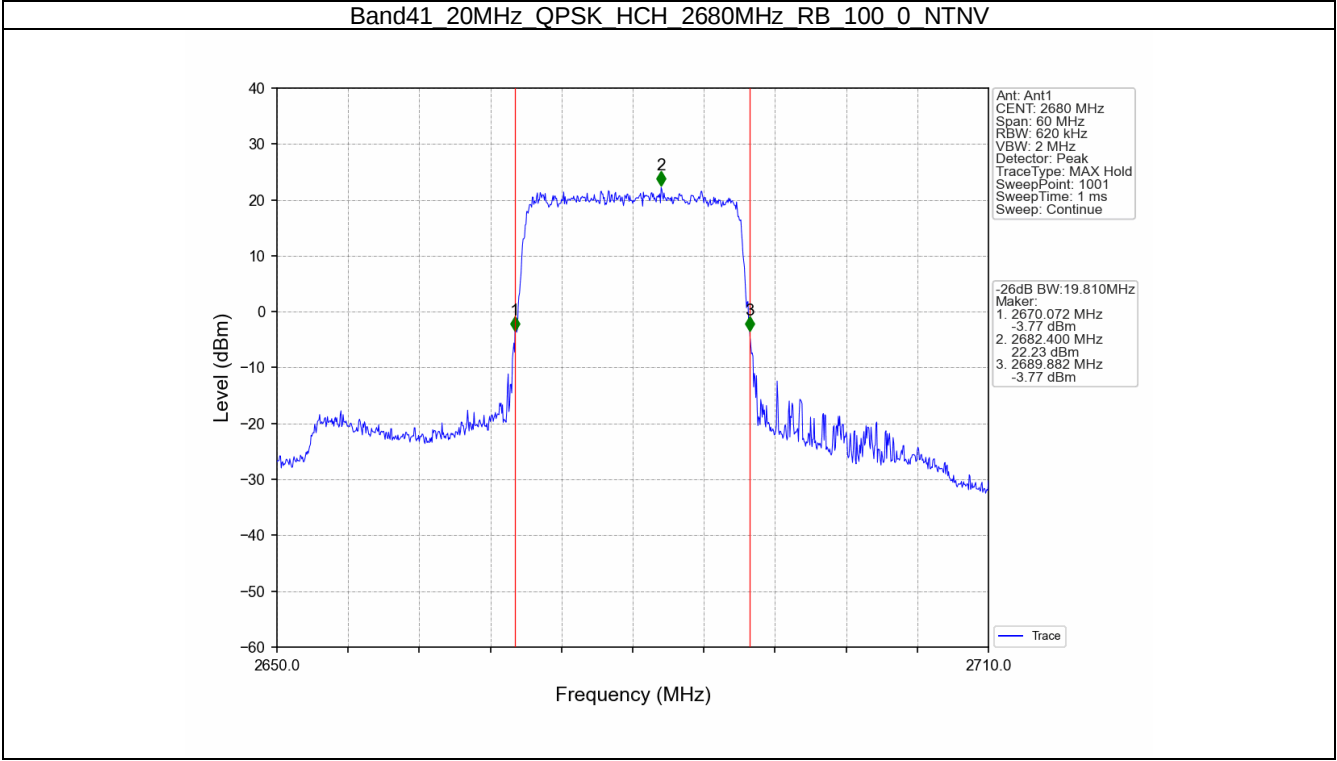
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