

Appendix E for KSCR220800137702-FCC WWAN repeater

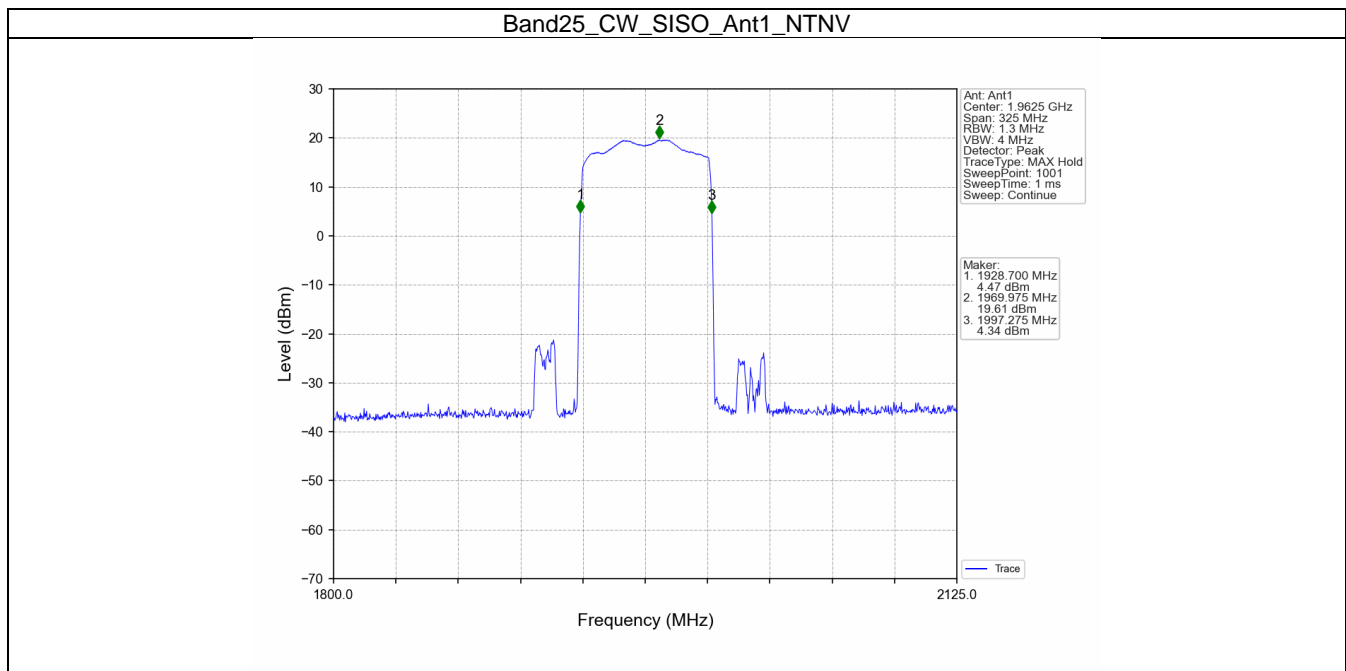
1. Out of band rejection

1.1 Band25

1.1.1 Test Result

| Band: 25 / NTNV | | | | | | | |
|-----------------|-----------------------------|---------|-----|----------|----------|----------|---------|
| Signal | Sweep Frequency Range (MHz) | TX Type | ANT | F0 (MHz) | FL (MHz) | FH (MHz) | Verdict |
| CW | 1800 - 2125 | SISO | 1 | 1969.975 | 1928.700 | 1997.275 | Pass |

1.1.2 Test Graph



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2. AGC threshold

2.1 Band25

2.1.1 Test Result

| Band: 25 / NTNV | | | | | |
|-----------------|-----------------|---------|-----|---------------------|---------|
| Signal | Frequency (MHz) | TX Type | ANT | AGC Threshold (dBm) | Verdict |
| AWGN | 1969.975 | SISO | 1 | -3.20 | Pass |
| GMSK | 1969.975 | SISO | 1 | -3.20 | Pass |



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3. Input-versus-output signal comparison

3.1 Band25_OBW

3.1.1 Test Result

| Band: 25 / NTNV | | | | | | | |
|-----------------|-------------|-----------------|---------|-----|---------------|-------|---------|
| Signal | | | TX Type | ANT | 99% OBW (MHz) | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.2 | 1969.975 | SISO | 1 | 4.538 | 4.541 | Pass |
| | -3.2 | 1969.975 | SISO | 1 | 4.542 | 4.528 | Pass |
| GMSK | -0.2 | 1969.975 | SISO | 1 | 0.243 | 0.244 | Pass |
| | -3.2 | 1969.975 | SISO | 1 | 0.244 | 0.245 | Pass |



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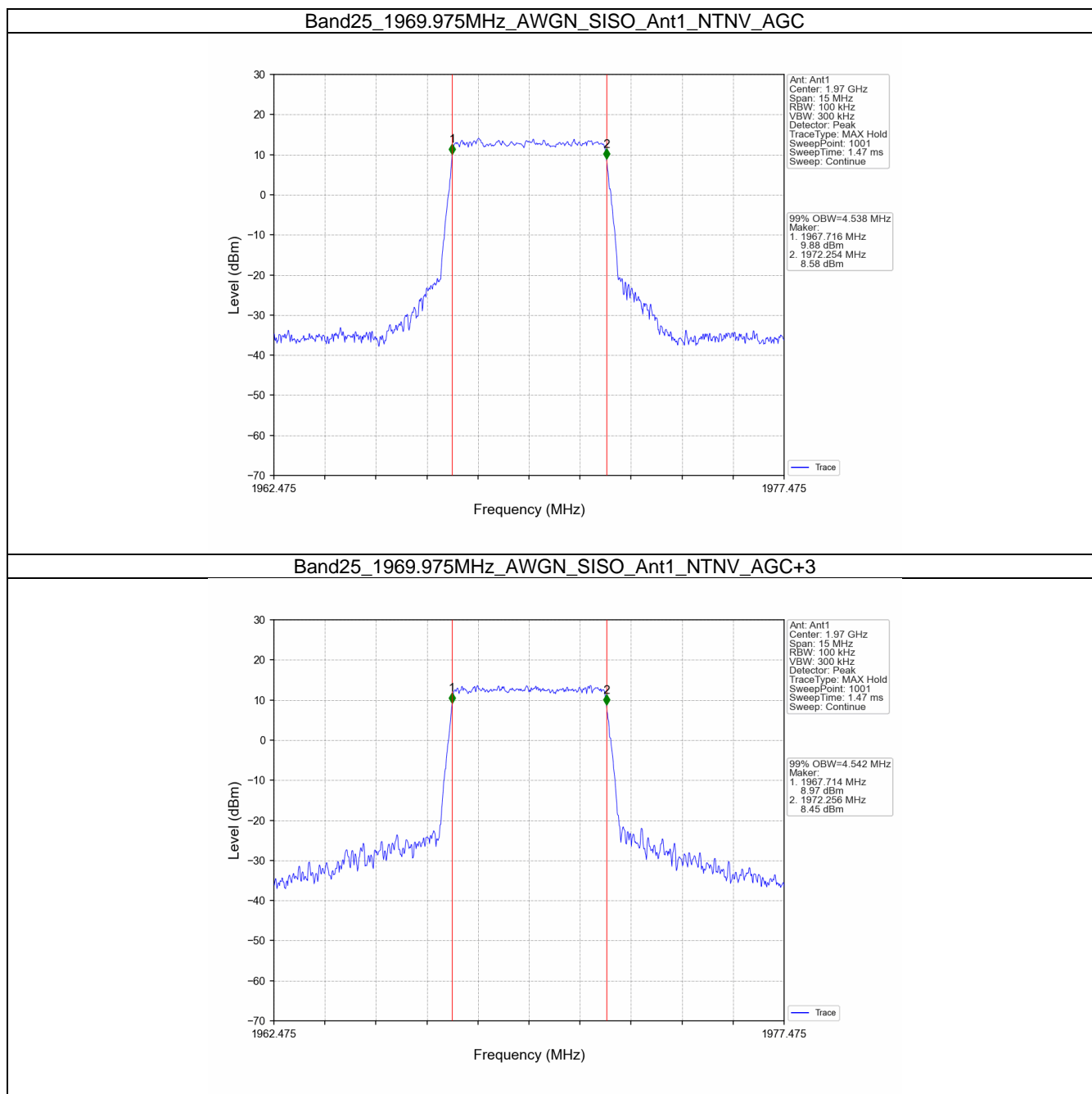
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3.1.2 Test Graph



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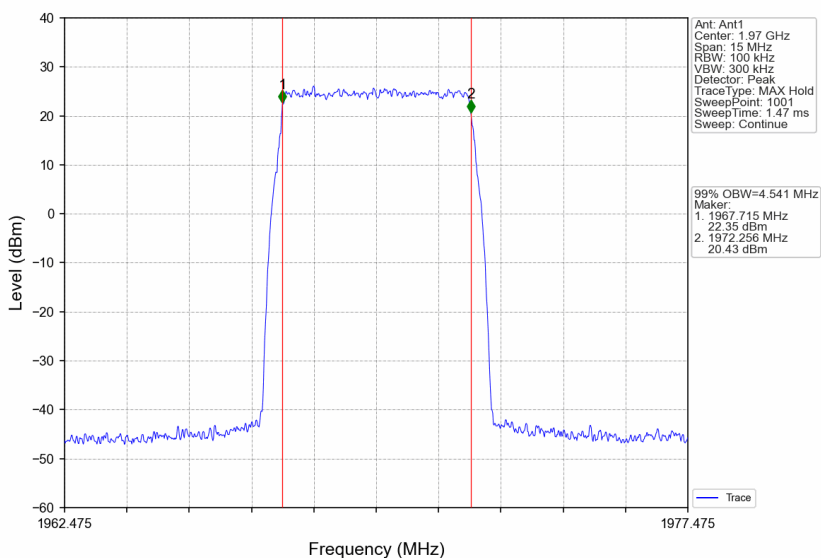
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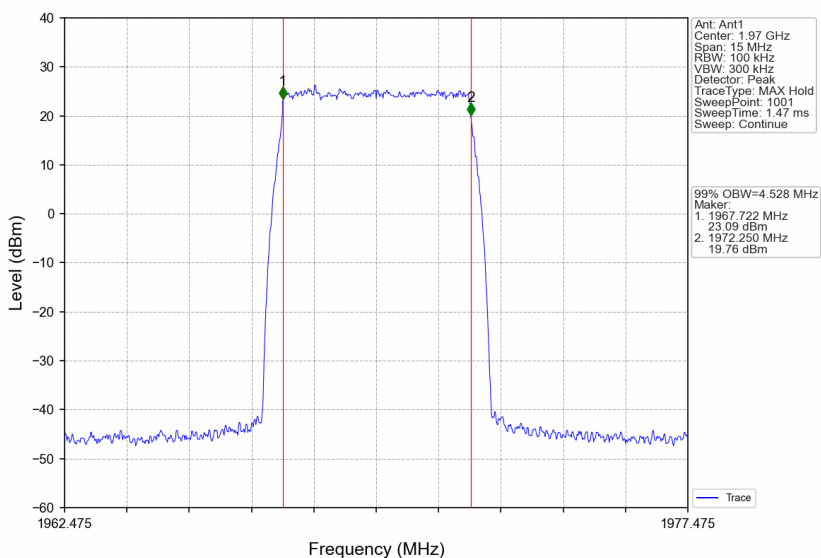
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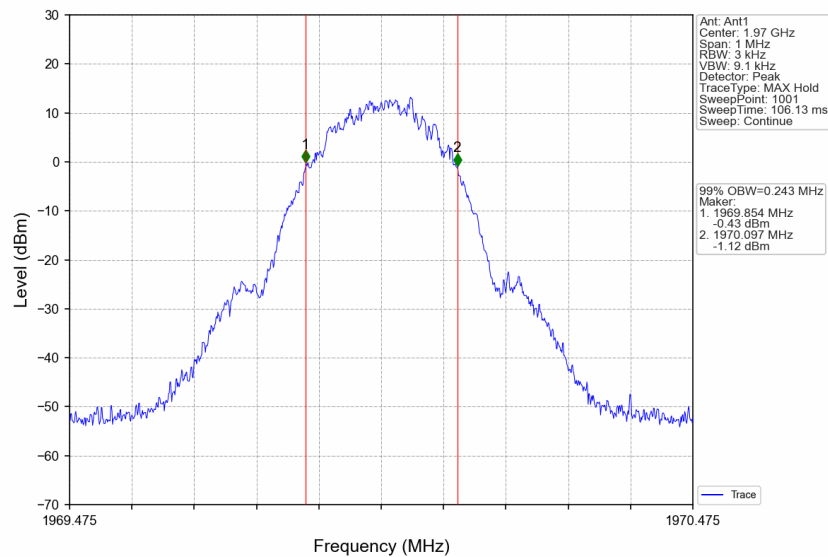
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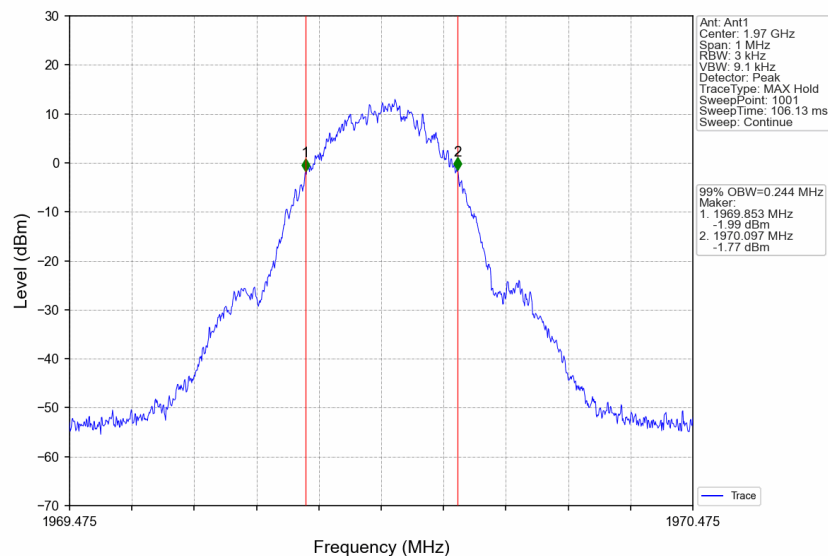
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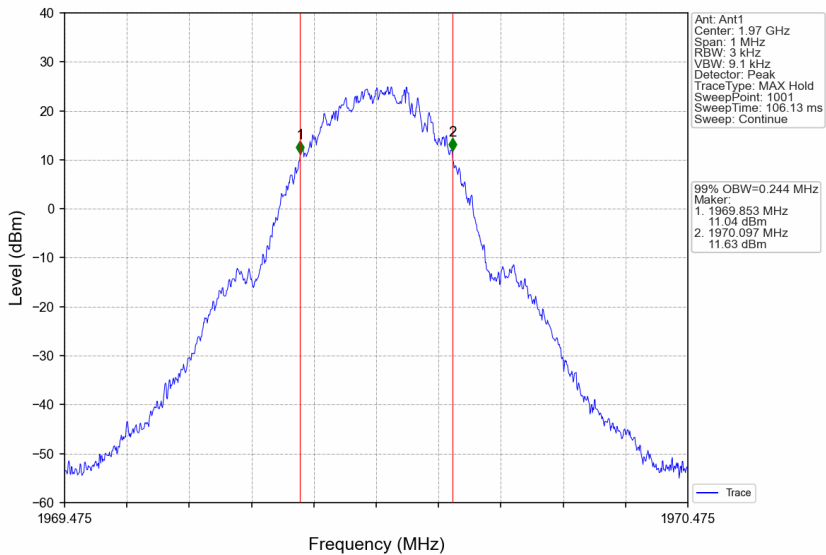
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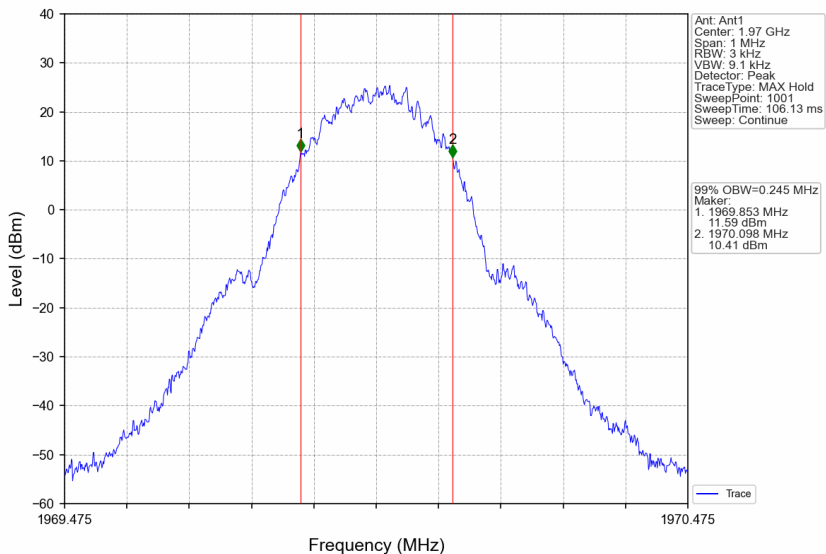
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3.2 Band25_EBW

3.2.1 Test Result

| Band: 25 / NTNV | | | | | | | |
|-----------------|-------------|-----------------|---------|-----|----------------|-------|---------|
| Signal | | | TX Type | ANT | 26dB EBW (MHz) | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.2 | 1969.975 | SISO | 1 | 5.054 | 5.052 | Pass |
| | -3.2 | 1969.975 | SISO | 1 | 5.063 | 5.083 | Pass |
| GMSK | -0.2 | 1969.975 | SISO | 1 | 0.314 | 0.315 | Pass |
| | -3.2 | 1969.975 | SISO | 1 | 0.315 | 0.312 | Pass |



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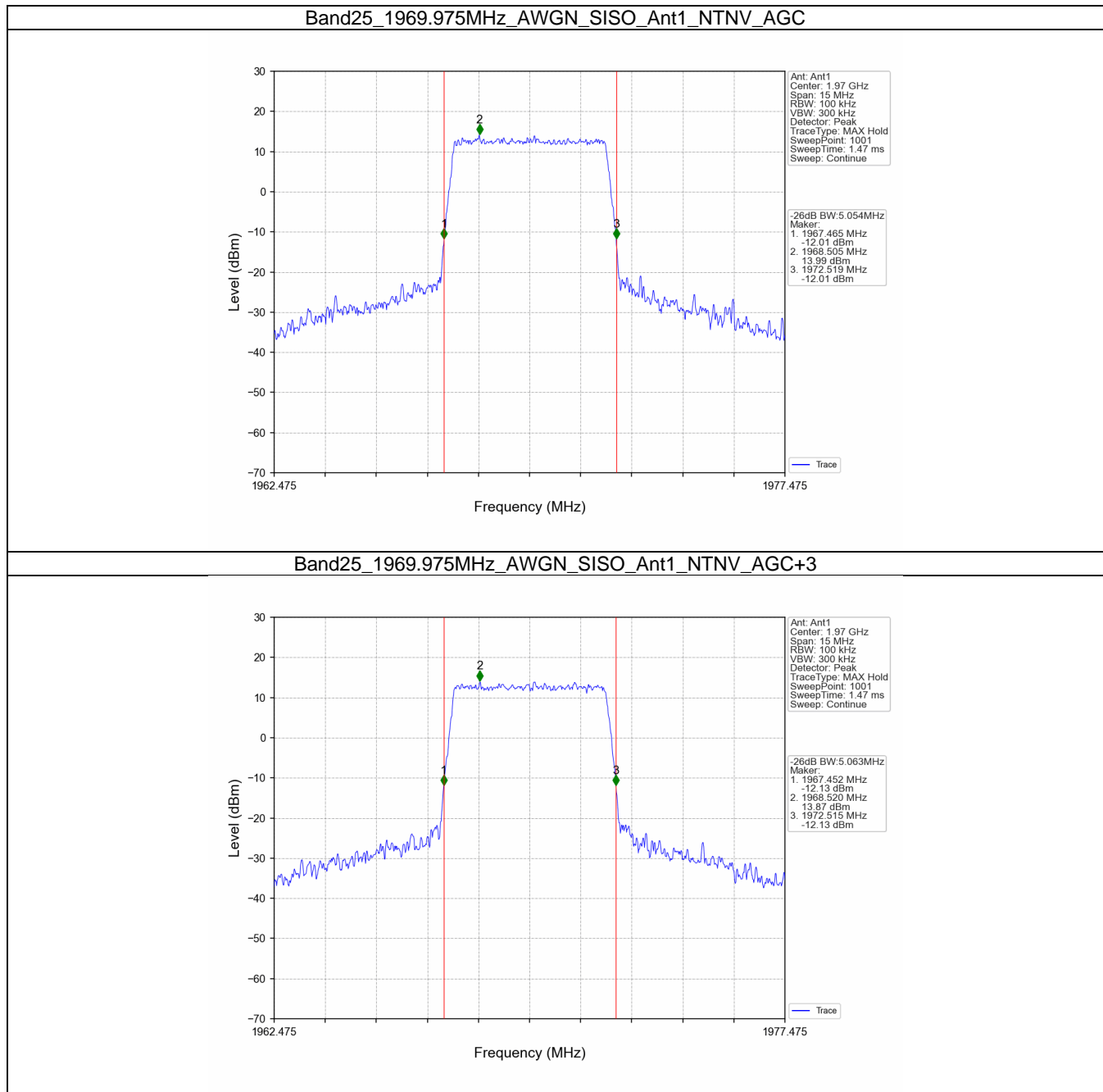
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3.2.2 Test Graph



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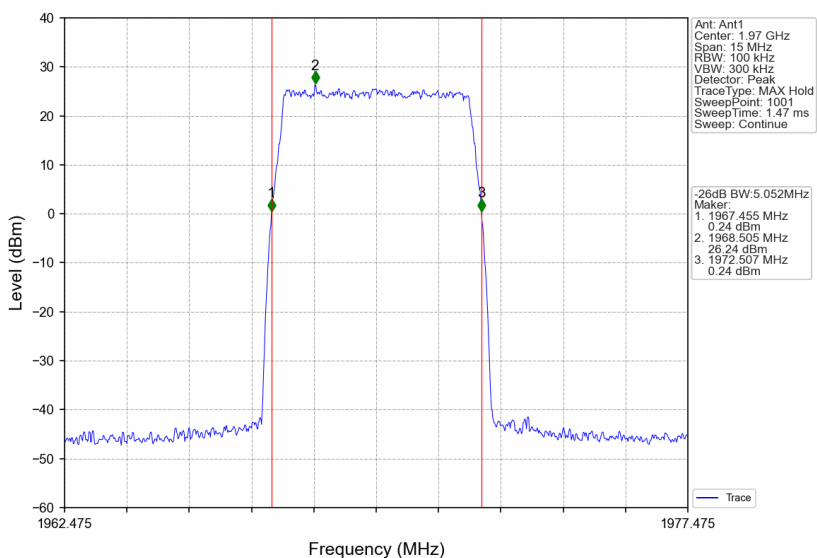
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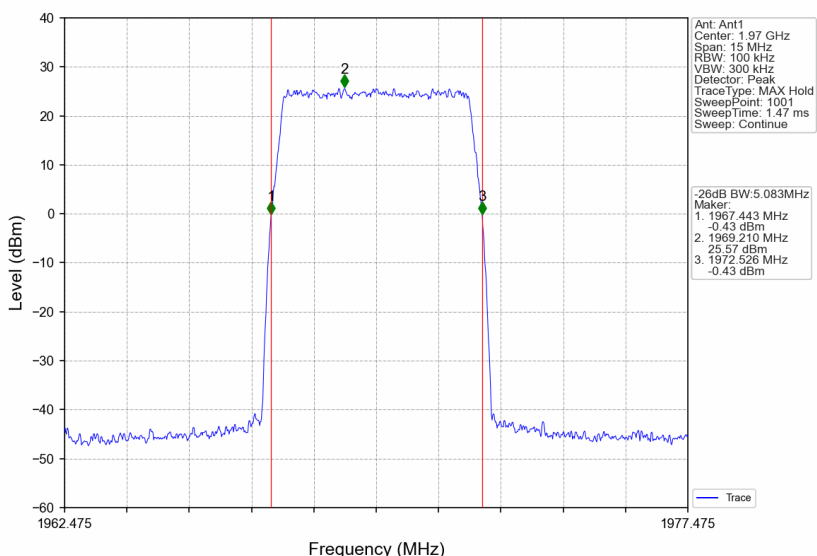
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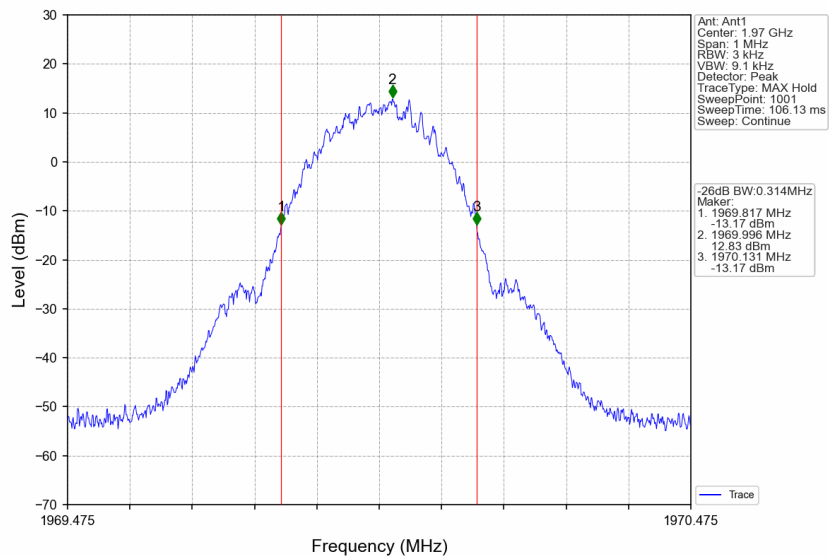
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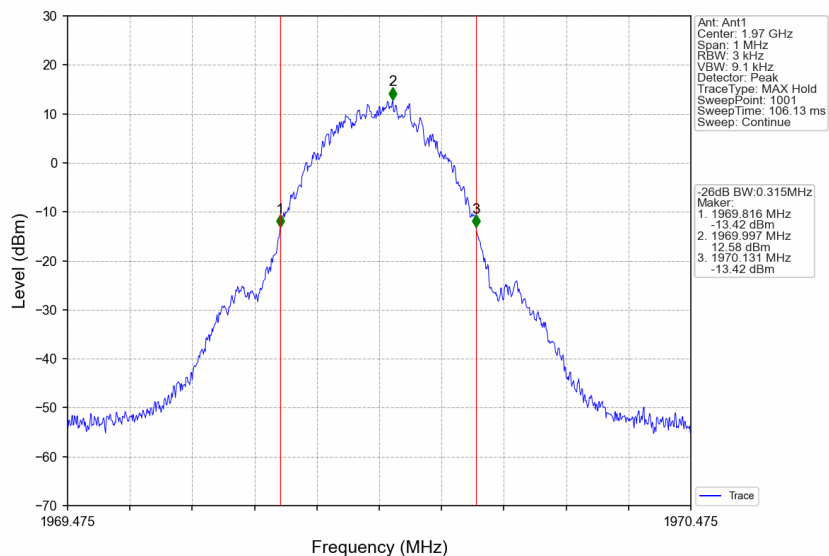
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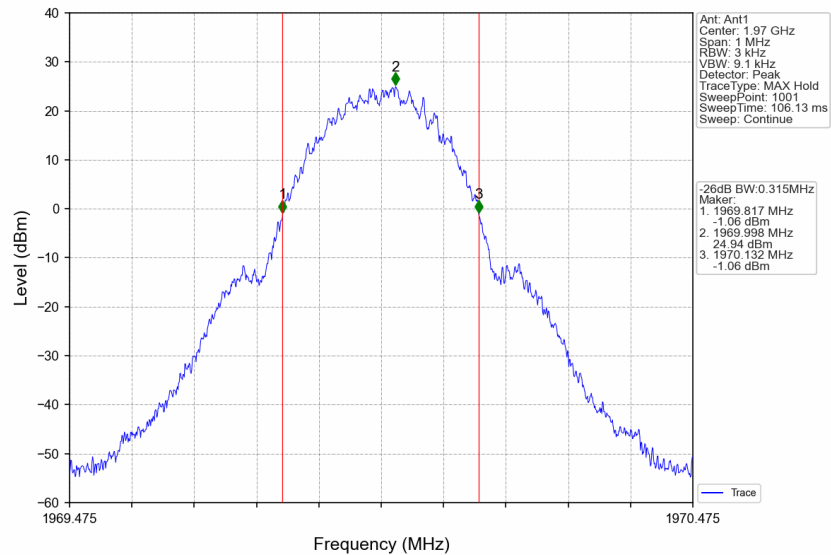
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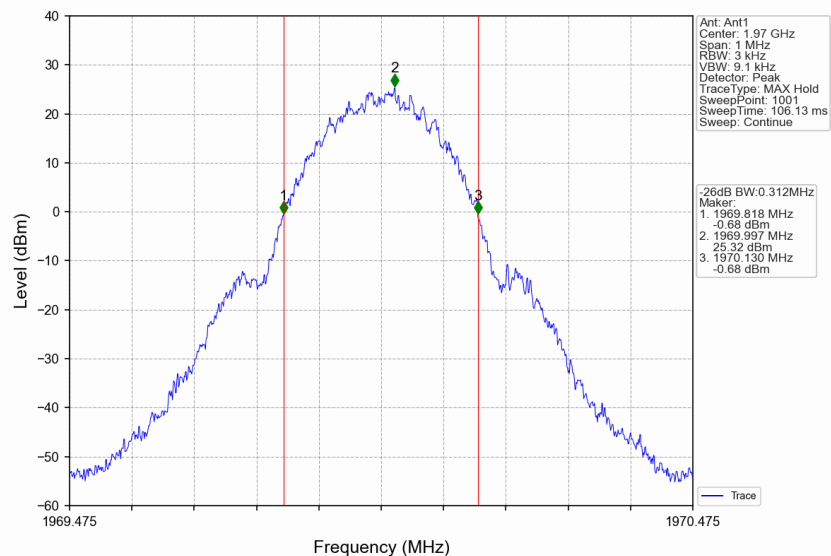
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4. Input/output power and amplifier/booster gain

4.1 Band25_EIRP

4.1.1 Test Result

| 1930MHz-1995MHz / NTNV | | | | | | | | | | | |
|------------------------|-----------------|-------------|--------------------|-------------------|------------------------|-------|-------|-------|------------------------------|----------------|-----------|
| Operation Band | Frequency (MHz) | Signal Type | Signal Level (dBm) | Input Power (dBm) | Output Power (dBm/MHz) | | | | Total Output Power (dBm/MHz) | EIRP (dBm/MHz) | Gain (dB) |
| | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | | | |
| SISO mode | | | | | | | | | | | |
| 1930MHz-1995MHz | 1969.975 | AWGN | Pre-AGC | -3.2 | 13.21 | -- | -- | -- | 13.21 | 16.21 | 21.39 |
| | | | 3dB Above AGC | -0.2 | 14.08 | -- | -- | -- | 14.08 | 17.08 | / |
| | 1969.975 | GMSK | Pre-AGC | -3.2 | 20.68 | -- | -- | -- | 20.68 | 23.68 | 22.85 |
| | | | 3dB Above AGC | -0.2 | 21.82 | -- | -- | -- | 21.82 | 24.82 | / |

| 1930MHz-1995MHz / NTNV | | | | | | | | | | | |
|------------------------|-----------------|-------------|--------------------|-------------------|------------------------------|----------|----------|----------------|----------|----------|-----------|
| Operation Band | Frequency (MHz) | Signal Type | Signal Level (dBm) | Input Power (dBm) | Total Output Power (dBm/MHz) | | | EIRP (dBm/MHz) | | | Gain (dB) |
| | | | | | SISO | 2X2 MIMO | 4X4 MIMO | SISO | 2X2 MIMO | 4X4 MIMO | |
| MIMO mode | | | | | | | | | | | |
| 1930MHz-1995MHz | 1969.975 | AWGN | Pre-AGC | -3.2 | 13.21 | 16.22 | 19.23 | 16.21 | 19.22 | 22.23 | / |
| | | | 3dB Above AGC | -0.2 | 14.08 | 17.09 | 20.10 | 17.08 | 20.09 | 23.10 | / |
| | 1969.975 | GMSK | Pre-AGC | -3.2 | 20.68 | 23.69 | 26.70 | 23.68 | 26.69 | 29.70 | / |
| | | | 3dB Above AGC | -0.2 | 21.82 | 24.83 | 27.84 | 24.82 | 27.83 | 30.84 | / |



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| 1930MHz-1995MHz / NTNV | | | | | | | | | | | |
|------------------------|-----------------|-------------|--------------------|-------------------|--------------------------|----------|----------|------------|----------|----------|-----------|
| Operation Band | Frequency (MHz) | Signal Type | Signal Level (dBm) | Input Power (dBm) | Total Output Power (dBm) | | | EIRP (dBm) | | | Gain (dB) |
| | | | | | SISO | 2X2 MIMO | 4X4 MIMO | SISO | 2X2 MIMO | 4X4 MIMO | |
| MIMO mode | | | | | | | | | | | |
| 1930MHz-1995MHz | 1969.975 | AWGN | Pre-AGC | -3.2 | 13.21 | 16.22 | 19.23 | 16.21 | 19.22 | 22.23 | / |
| | | | 3dB Above AGC | -0.2 | 14.08 | 17.09 | 20.10 | 17.08 | 20.09 | 23.10 | / |
| | 1969.975 | GMSK | Pre-AGC | -3.2 | 20.68 | 23.69 | 26.70 | 23.68 | 26.69 | 29.70 | / |
| | | | 3dB Above AGC | -0.2 | 21.82 | 24.83 | 27.84 | 24.82 | 27.83 | 30.84 | / |

Remark:

- 1.The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port.
- 2.This EUT supports 2*2 and 4*4MIMO, For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.



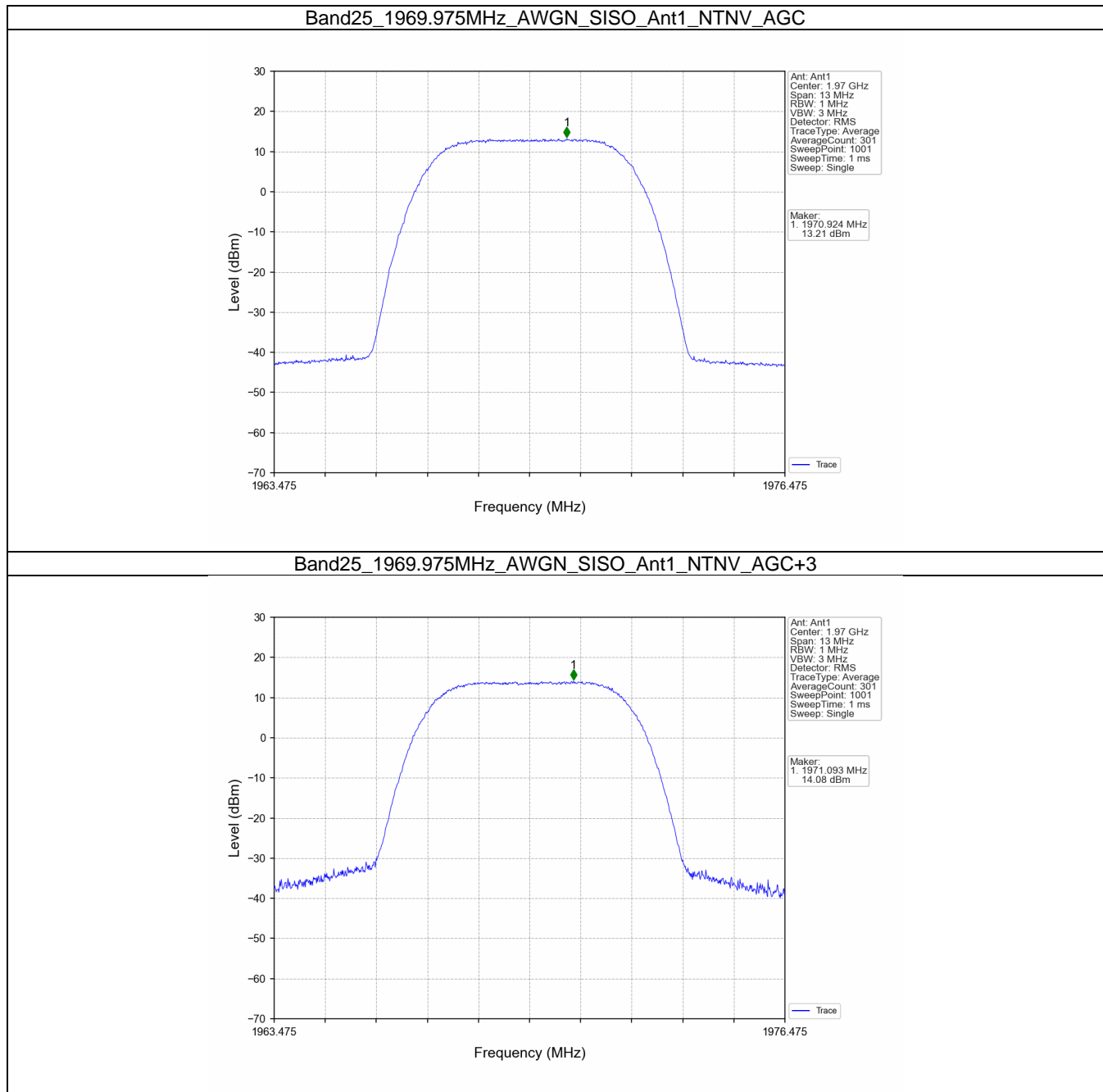
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4.1.2 Test Graph



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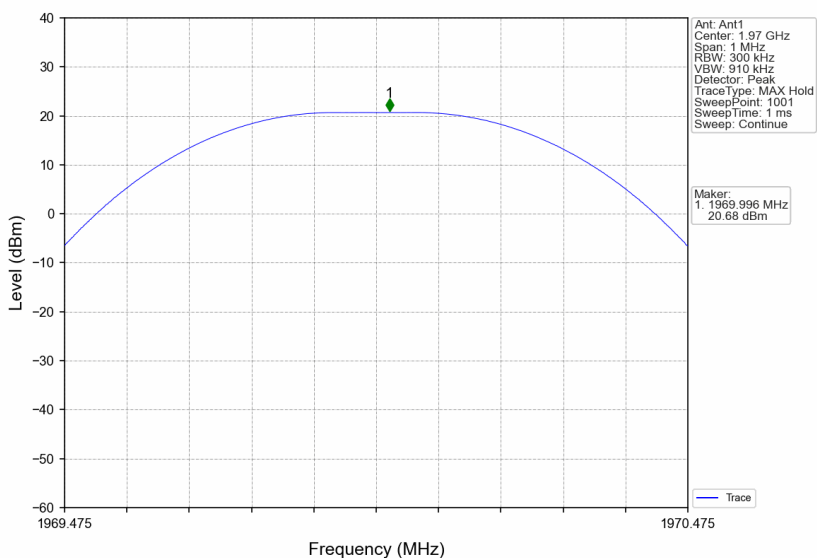
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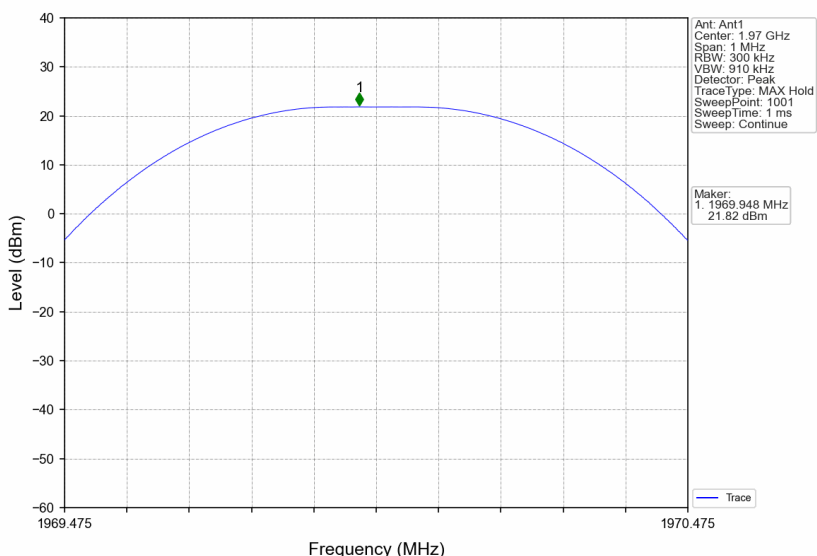
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Band25_1969.975MHz_GMSK_SISO_Ant1_NTNV_AGC



Band25_1969.975MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band25_PAPR

4.2.1 Test Result

| Band: 25 / NTNV | | | | | | | |
|-----------------|-------------|-----------------|---------|-----|-----------|-------|---------|
| Signal | | | TX Type | ANT | PAPR (dB) | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | Result | Limit | |
| AWGN | -3.2 | 1969.975 | SISO | 1 | 8.33 | <=13 | Pass |
| | -0.2 | 1969.975 | SISO | 1 | 8.30 | <=13 | Pass |
| GMSK | -3.2 | 1969.975 | SISO | 1 | 0.27 | <=13 | Pass |
| | -0.2 | 1969.975 | SISO | 1 | 0.26 | <=13 | Pass |



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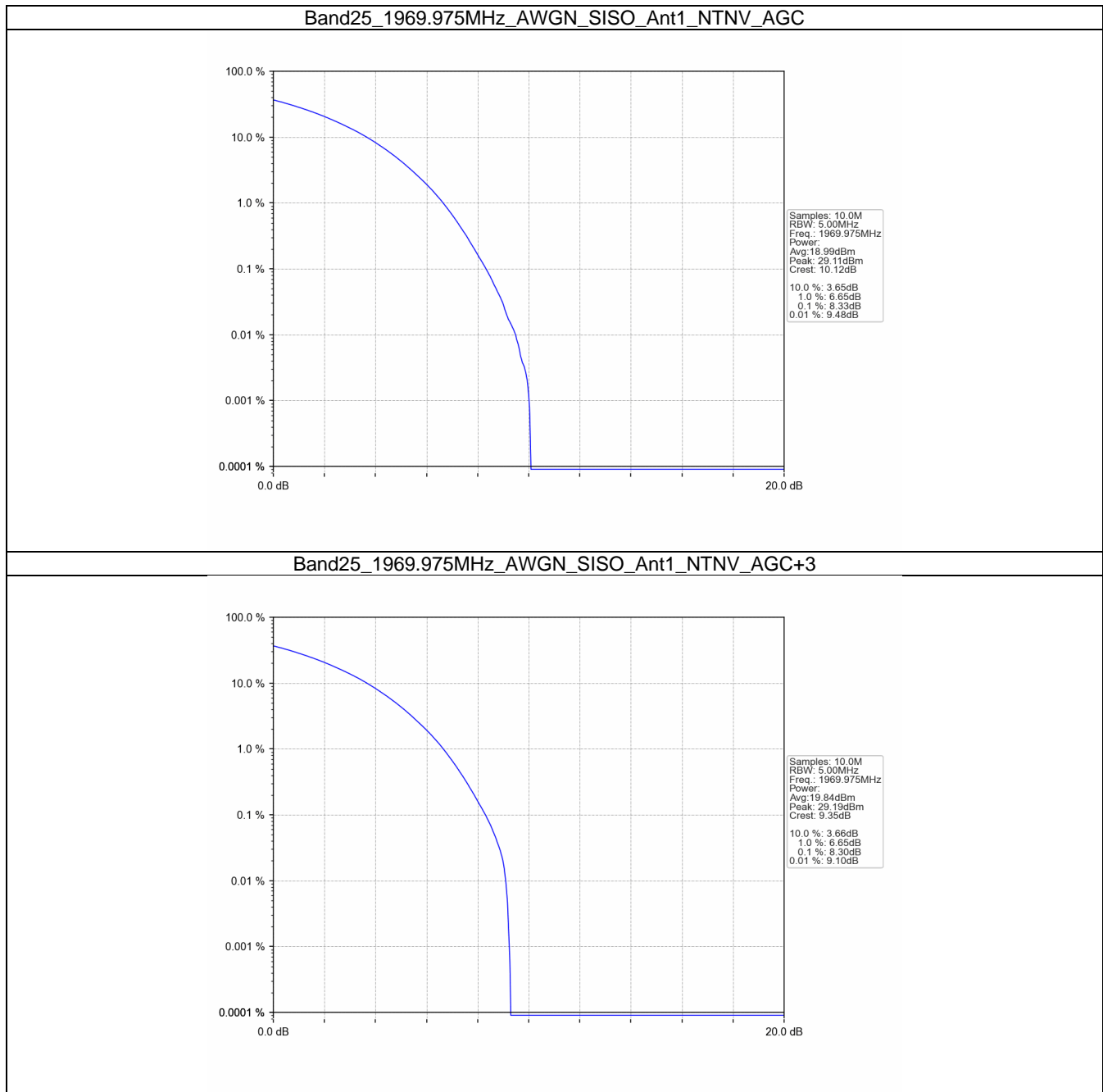
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4.2.2 Test Graph



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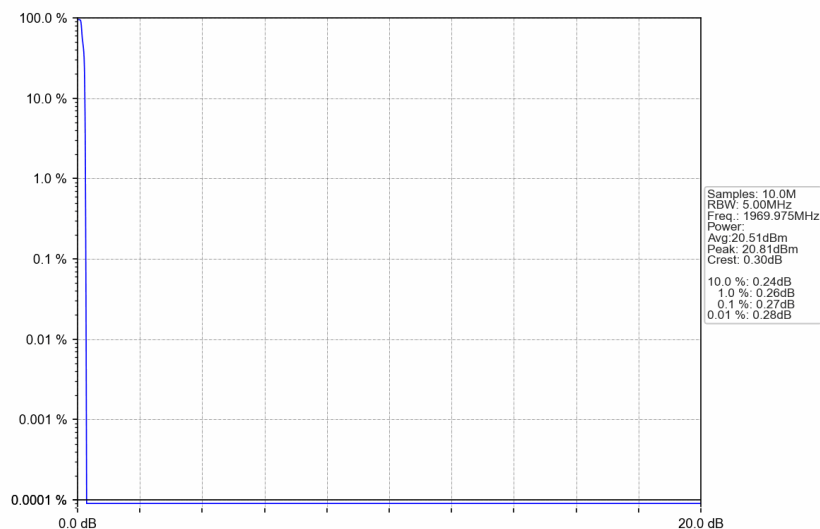
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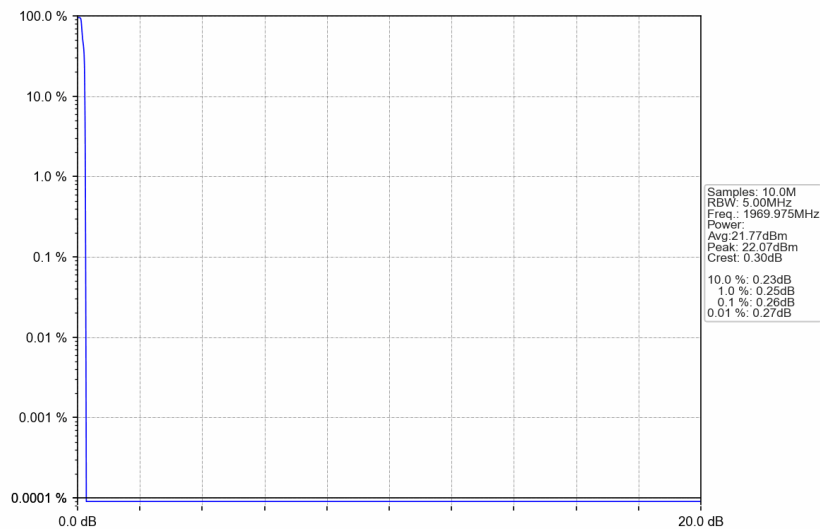
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Band25_1969.975MHz_GMSK_SISO_Ant1_NTNV_AGC



Band25_1969.975MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band25

5.1.1 Test Result

| Band: 25 / NTV | | | | | | | | | | | |
|----------------|------|-------------|-----------------|---------|---------|-----|-----------------|---------------------|----------------|--------------------|---------|
| Signal | | | | Channel | TX Type | ANT | OOB (dBm) | | | | Verdict |
| Input | Type | Level (dBm) | Frequency (MHz) | | | | Result for SISO | Result for 4*4 MIMO | Limit for SISO | Limit for 4*4 MIMO | |
| Two | AWGN | -3.2 | 1932.5 | LCH | SISO | 1 | -81.55 | -75.53 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1932.5 | LCH | SISO | 1 | -81.39 | -75.37 | -13.00 | -19.02 | Pass |
| One | AWGN | -3.2 | 1932.5 | LCH | SISO | 1 | -81.42 | -75.40 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1932.5 | LCH | SISO | 1 | -81.33 | -75.31 | -13.00 | -19.02 | Pass |
| Two | AWGN | -3.2 | 1992.5 | HCH | SISO | 1 | -81.22 | -75.20 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1992.5 | HCH | SISO | 1 | -81.13 | -75.11 | -13.00 | -19.02 | Pass |
| One | AWGN | -3.2 | 1992.5 | HCH | SISO | 1 | -80.97 | -74.95 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1992.5 | HCH | SISO | 1 | -80.88 | -74.86 | -13.00 | -19.02 | Pass |
| Two | GMSK | -3.2 | 1930.1 | LCH | SISO | 1 | -81.11 | -75.09 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1930.1 | LCH | SISO | 1 | -80.93 | -74.91 | -13.00 | -19.02 | Pass |
| One | GMSK | -3.2 | 1930.1 | LCH | SISO | 1 | -81.02 | -75.00 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1930.1 | LCH | SISO | 1 | -80.82 | -74.80 | -13.00 | -19.02 | Pass |
| Two | GMSK | -3.2 | 1994.9 | HCH | SISO | 1 | -80.60 | -74.58 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1994.9 | HCH | SISO | 1 | -80.48 | -74.46 | -13.00 | -19.02 | Pass |
| One | GMSK | -3.2 | 1994.9 | HCH | SISO | 1 | -80.32 | -74.30 | -13.00 | -19.02 | Pass |
| | | -0.2 | 1994.9 | HCH | SISO | 1 | -80.74 | -74.72 | -13.00 | -19.02 | Pass |

Note 1: This EUT supports 4*4 MIMO, since we only presented the results of a test port of the worst, so we subtract the limit $10 * \log(4)$.

Note 2: All the test frequency points below the -19.02dBm, Meet the test requirements.



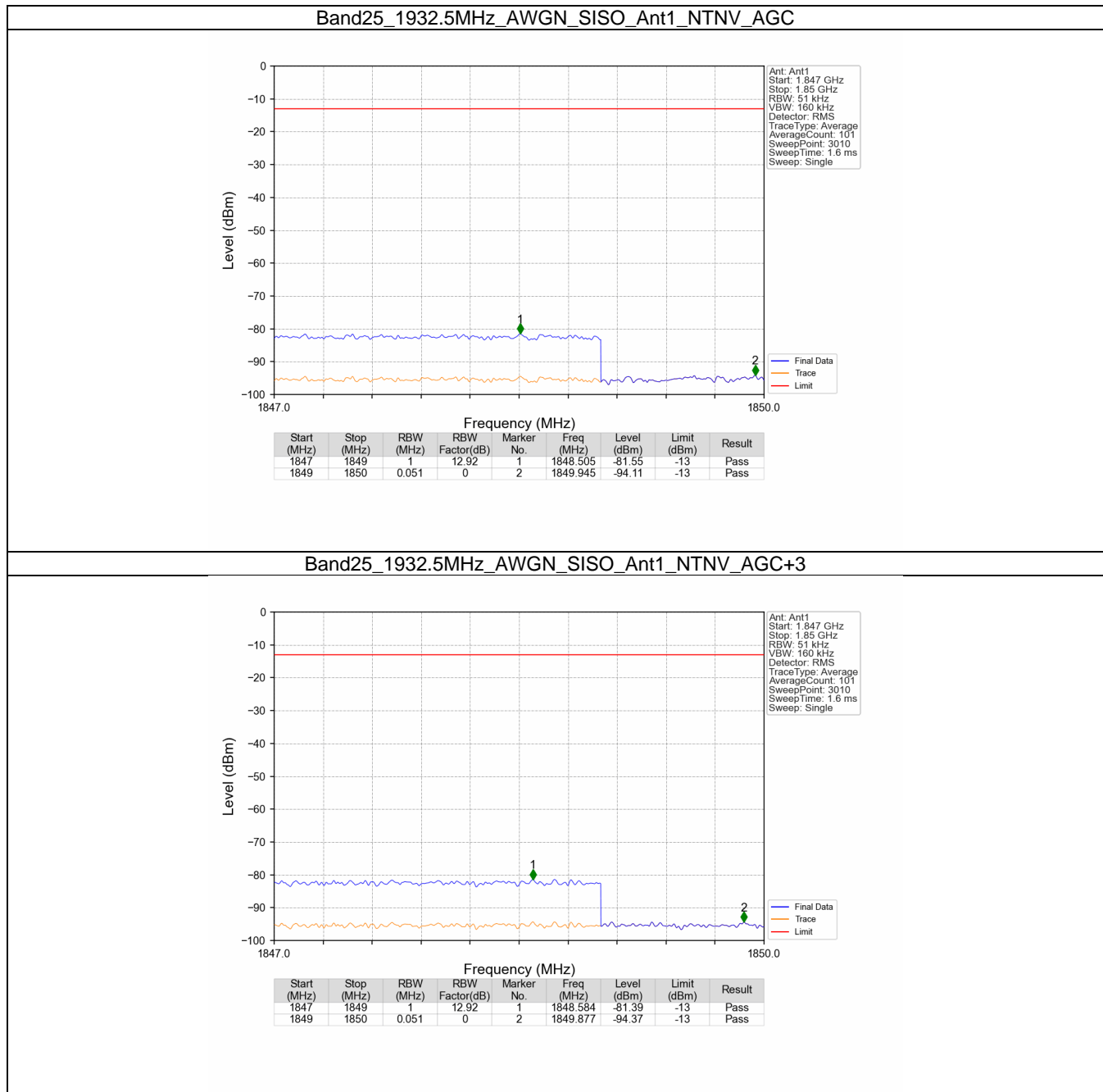
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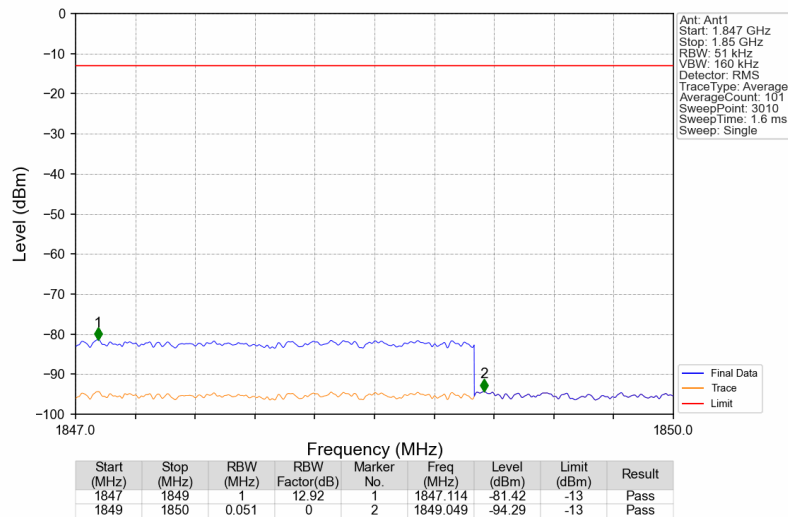
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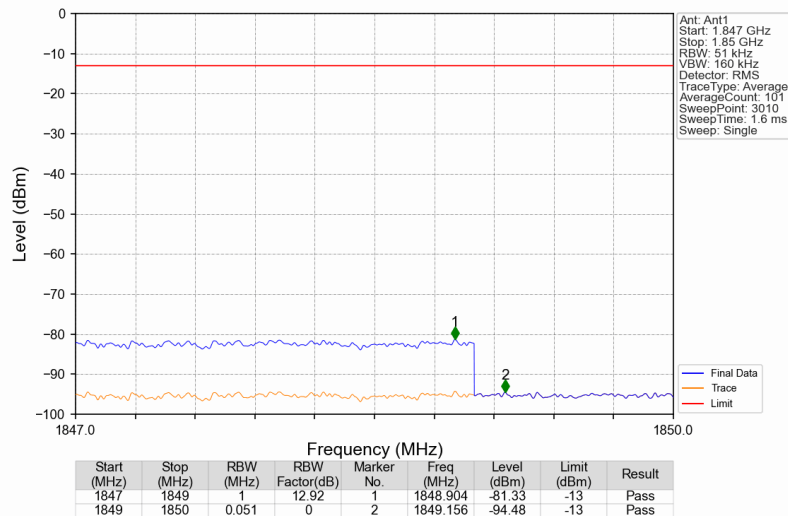
5.1.2 Test Graph



Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



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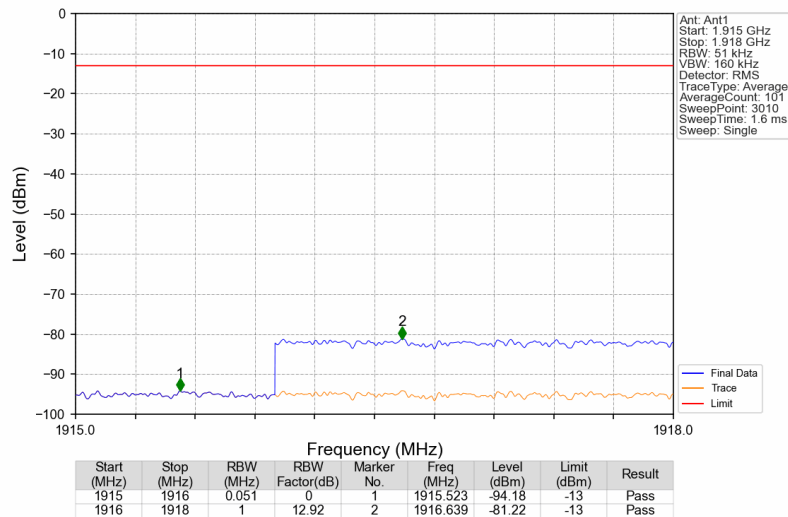
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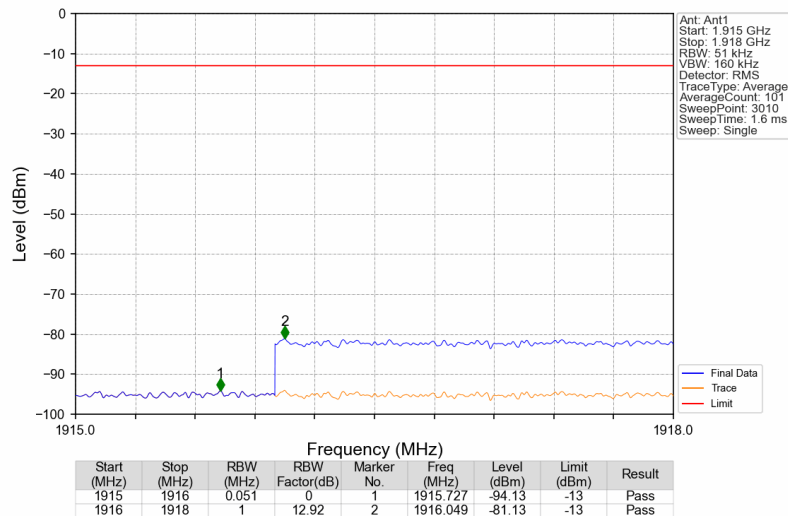
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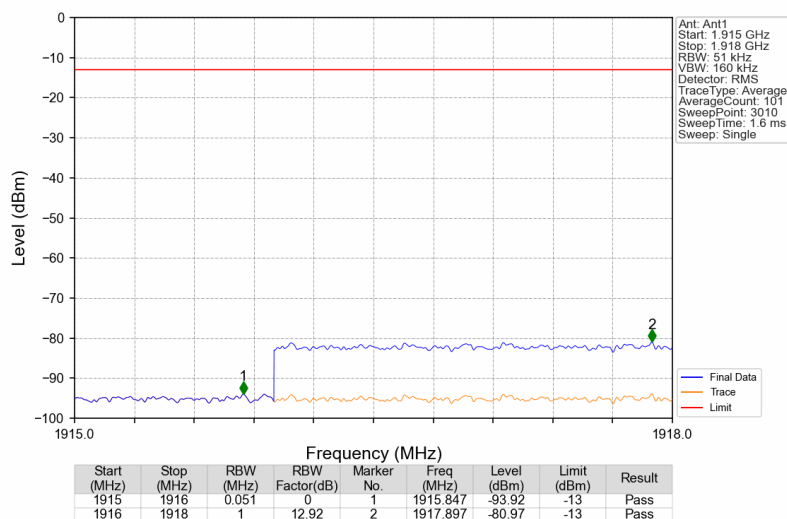
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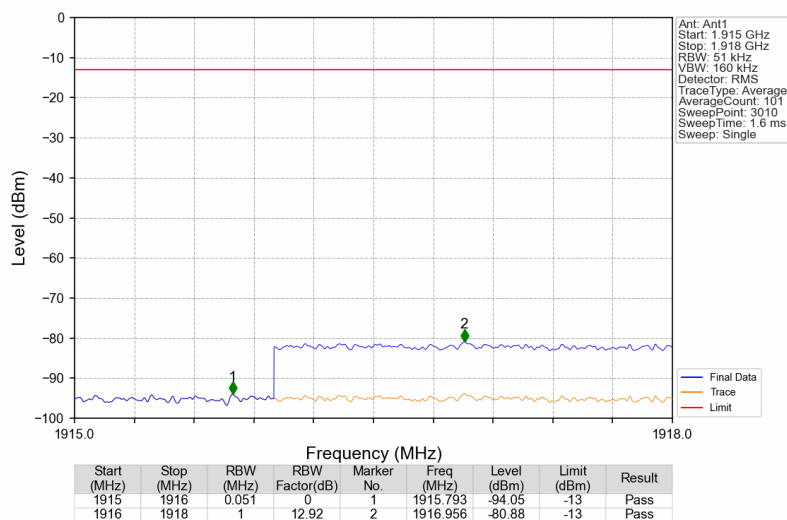
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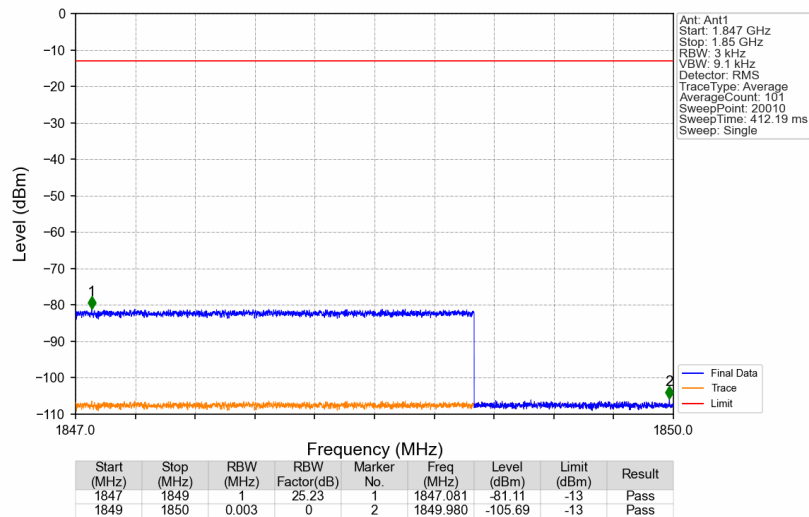
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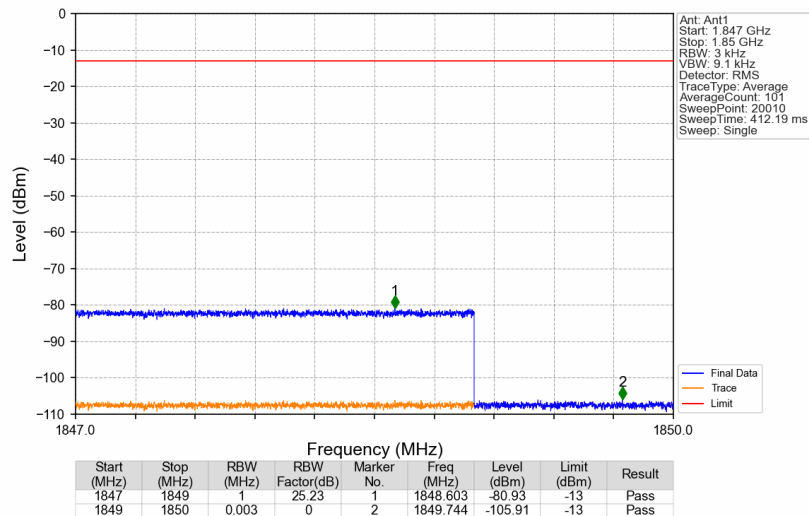
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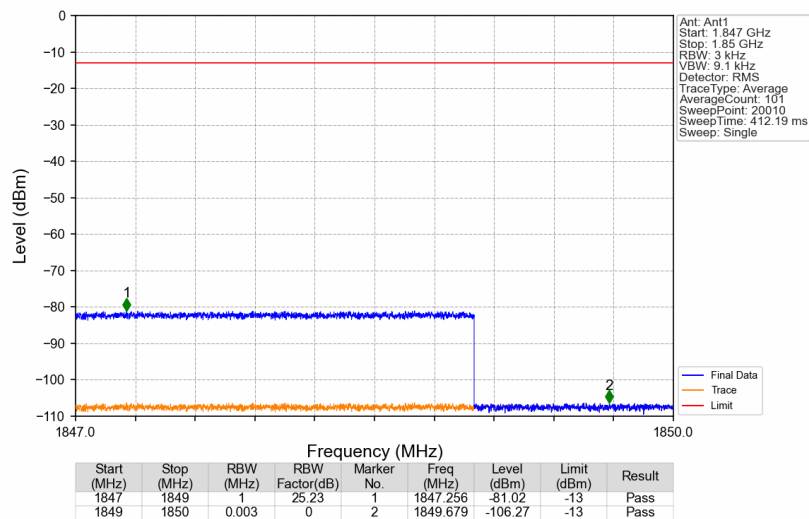
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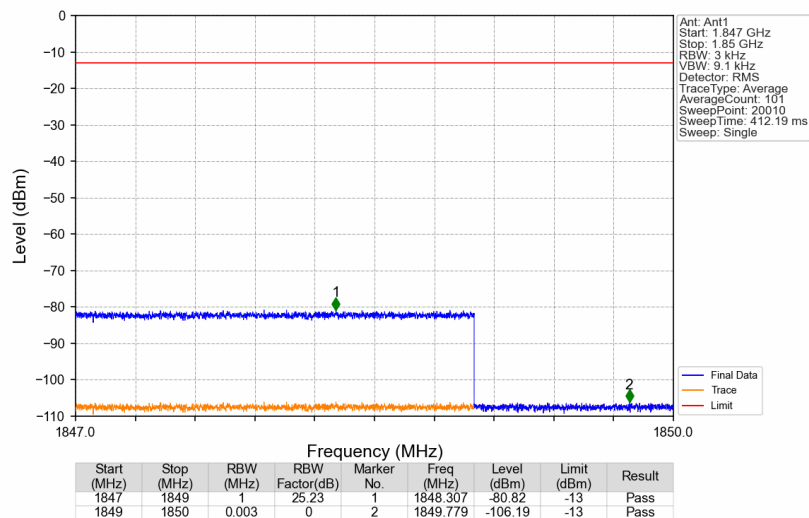
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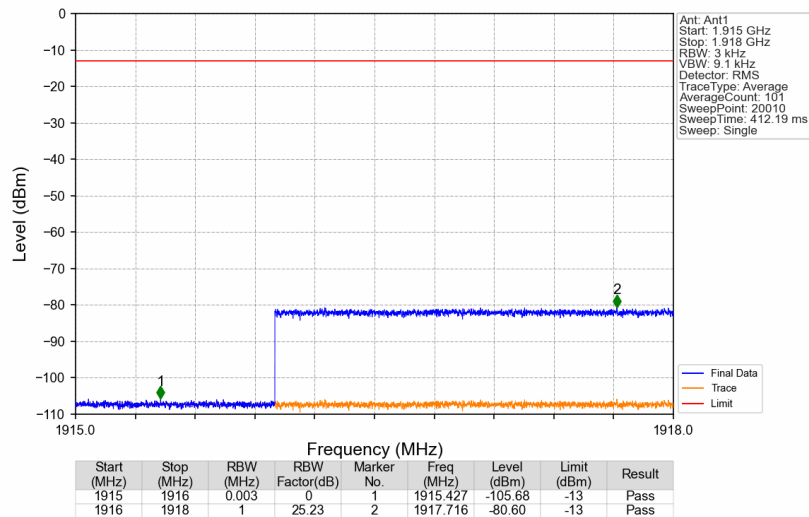
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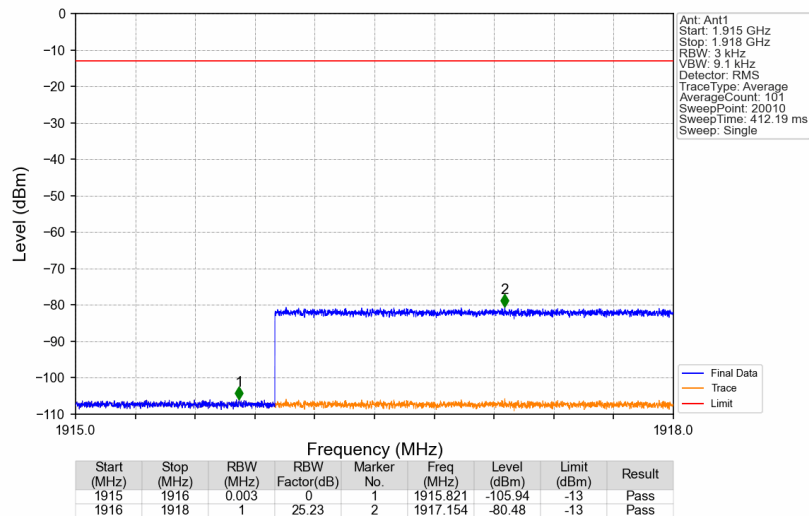
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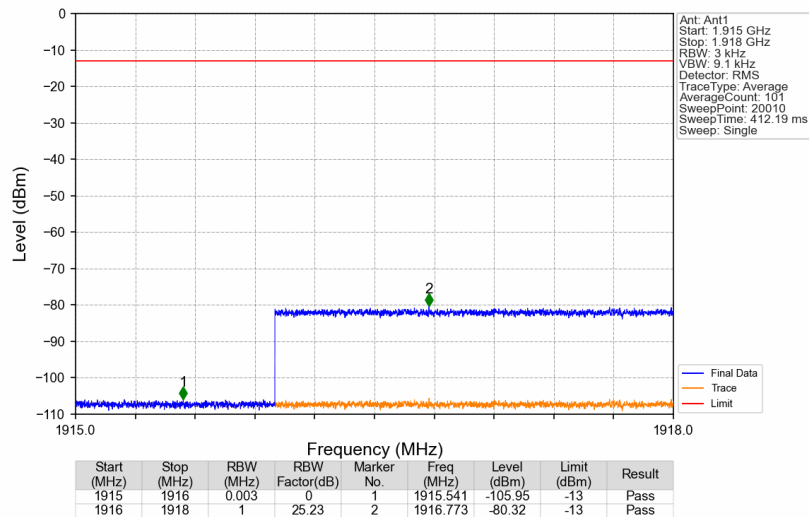
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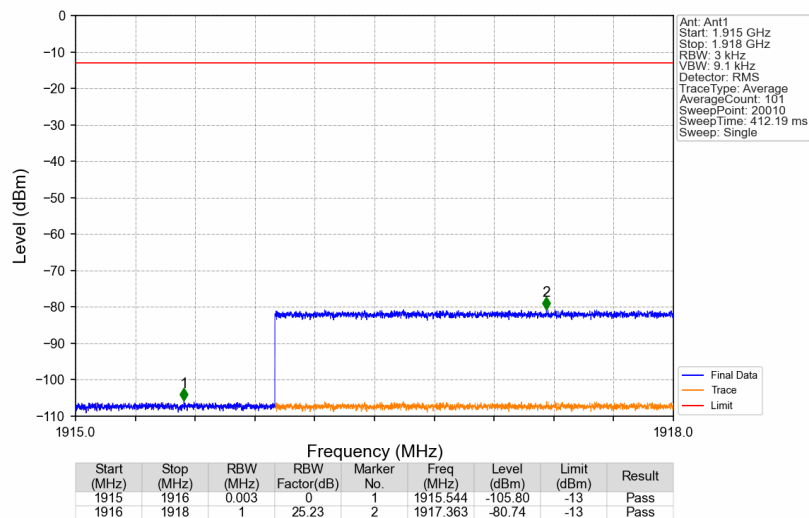
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6. Spurious emissions

6.1 Band25

6.1.1 Test Result

| Band: 25 / NTNV | | | | | | | | | | | |
|-----------------|-------------|-----------------|---------|---------|-----|-----------------------|-----------------|---------------------|----------------|-------------------|---------|
| Signal | | | Channel | TX Type | ANT | Frequency Range (MHz) | SE (dBm) | | | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | | | Result for SISO | Result for 4*4 MIMO | Limit for SISO | Limit for 4*4MIMO | |
| AWGN | -3.2 | 1932.5 | LCH | SISO | 1 | 0.009-0.15 | -50.32 | -44.30 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -62.75 | -56.73 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -80.58 | -74.56 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -73.17 | -67.15 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -66.92 | -60.90 | -13.00 | -19.02 | Pass |
| | | 1962.5 | MCH | SISO | 1 | 0.009-0.15 | -44.15 | -38.13 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -56.98 | -50.96 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -74.66 | -68.64 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -66.92 | -60.90 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -60.88 | -54.86 | -13.00 | -19.02 | Pass |
| | | 1992.5 | HCH | SISO | 1 | 0.009-0.15 | -50.18 | -44.16 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -62.51 | -56.49 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -80.75 | -74.73 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -72.72 | -66.70 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -66.80 | -60.78 | -13.00 | -19.02 | Pass |
| GMSK | -3.2 | 1930.1 | LCH | SISO | 1 | 0.009-0.15 | -50.40 | -44.38 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -62.91 | -56.89 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -80.60 | -74.58 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -73.35 | -67.33 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -66.82 | -60.80 | -13.00 | -19.02 | Pass |
| | | 1962.5 | MCH | SISO | 1 | 0.009-0.15 | -44.04 | -38.02 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -57.14 | -51.12 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -74.40 | -68.38 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -67.19 | -61.17 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -60.94 | -54.92 | -13.00 | -19.02 | Pass |
| | | 1994.9 | HCH | SISO | 1 | 0.009-0.15 | -49.91 | -43.89 | -13.00 | -19.02 | Pass |
| | | | | | | 0.15-30 | -61.94 | -55.92 | -13.00 | -19.02 | Pass |
| | | | | | | 30-1000 | -80.43 | -74.41 | -13.00 | -19.02 | Pass |
| | | | | | | 1000-10000 | -64.27 | -58.25 | -13.00 | -19.02 | Pass |
| | | | | | | 10000-19150 | -66.86 | -60.84 | -13.00 | -19.02 | Pass |

Note 1: This EUT supports 4*4 MIMO, since we only presented the results of a test port of the worst, so we subtract the limit $10 * \log(4)$.

Note 2: All the test frequency points below the -19.02dBm, Meet the test requirements.



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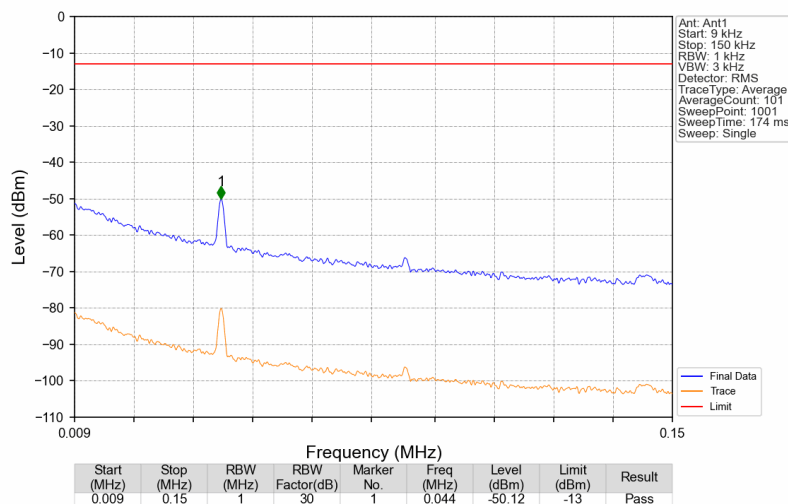
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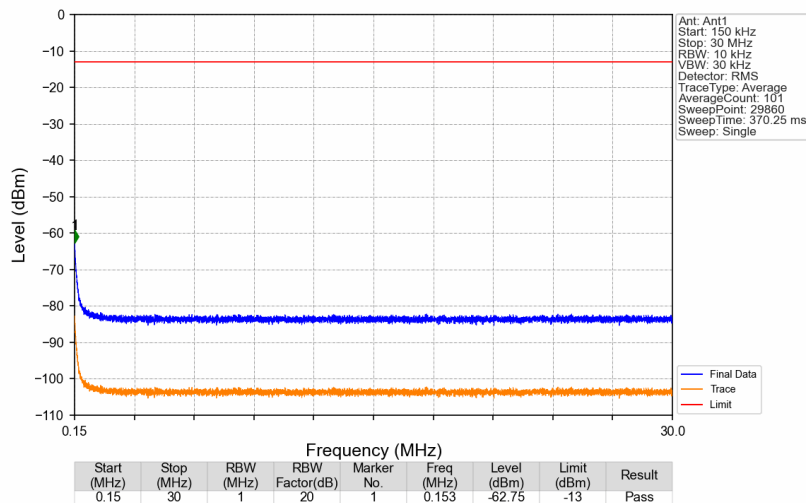
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6.1.2 Test Graph

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Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV



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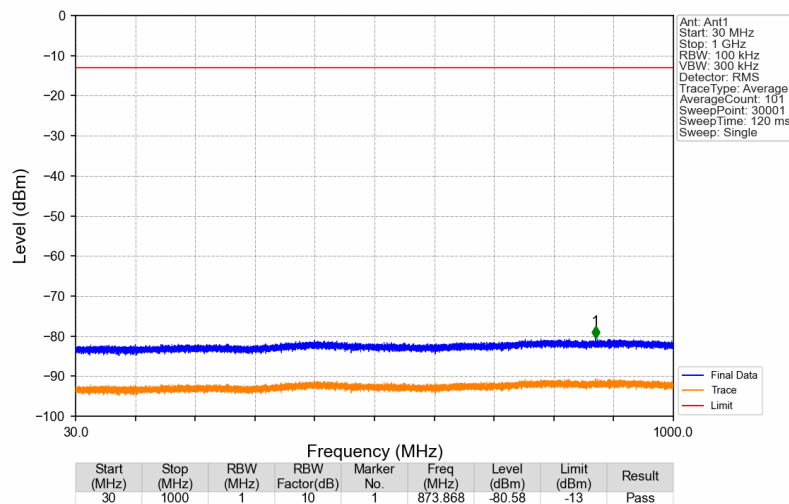
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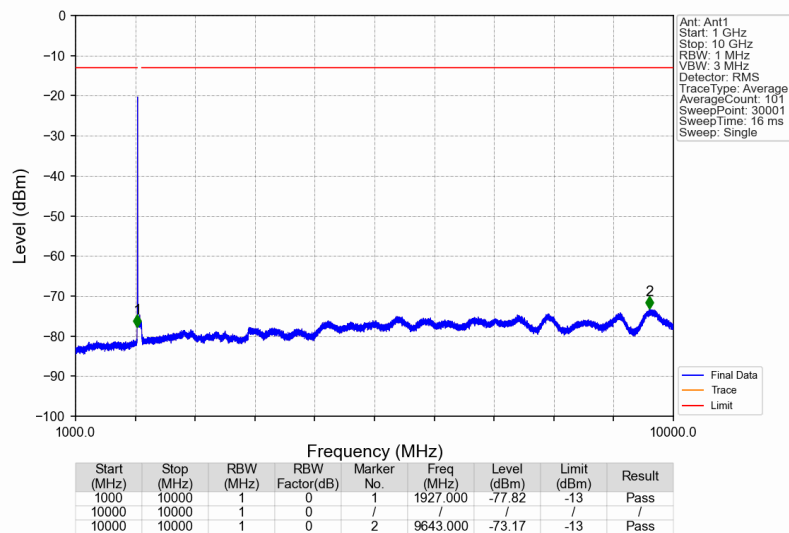
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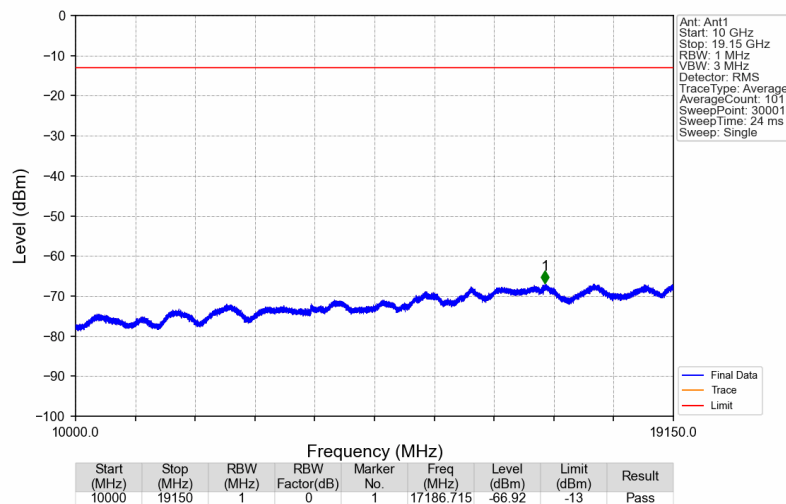
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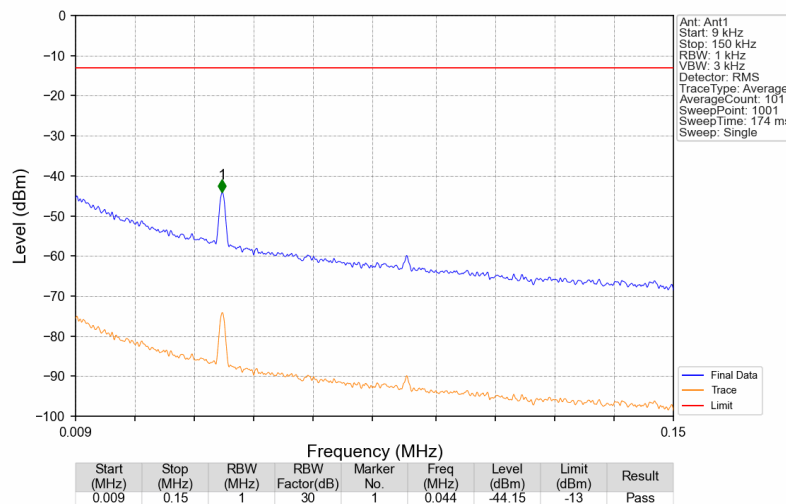
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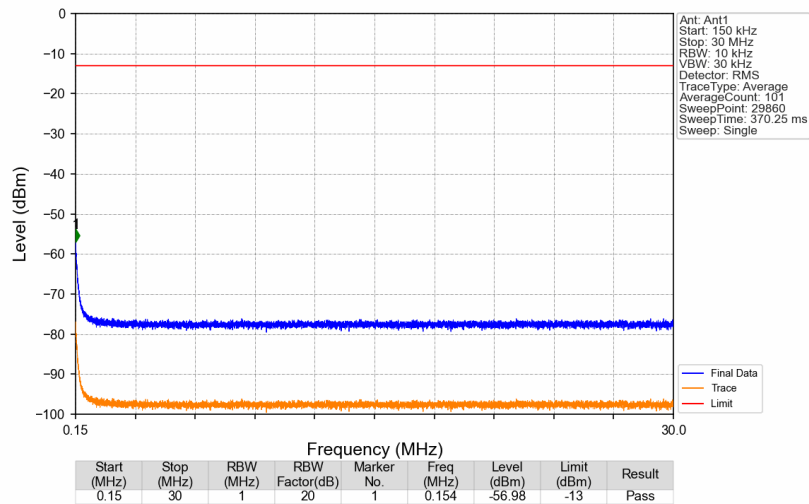
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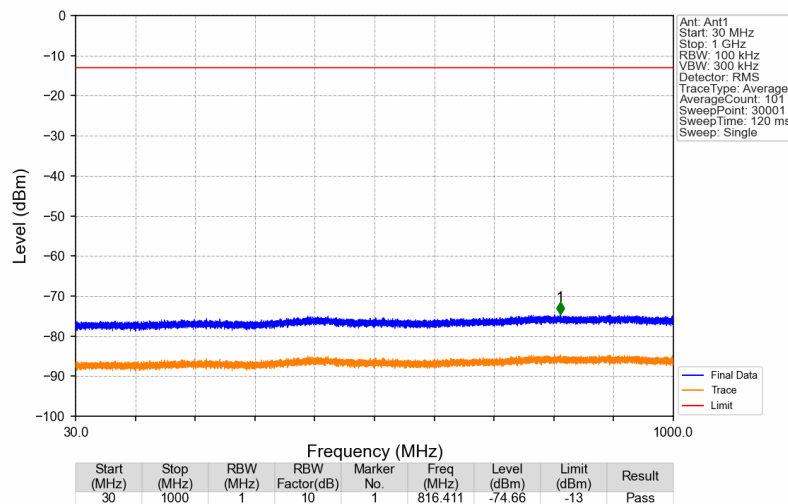
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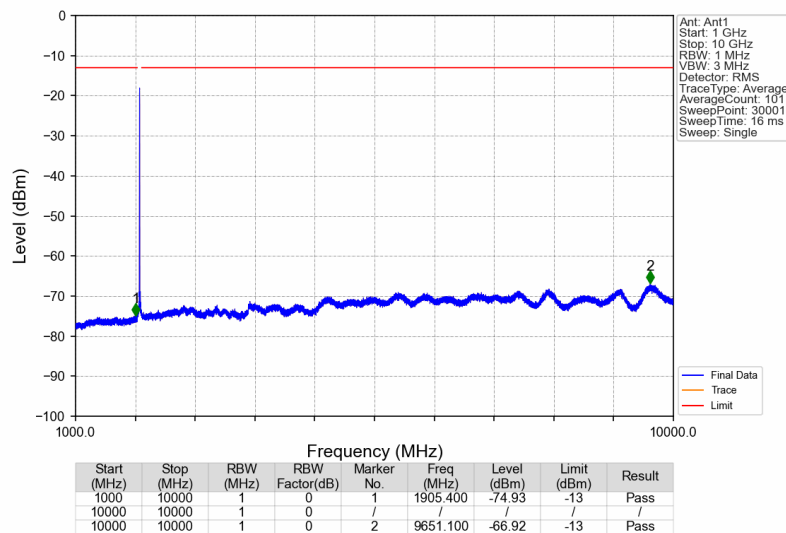
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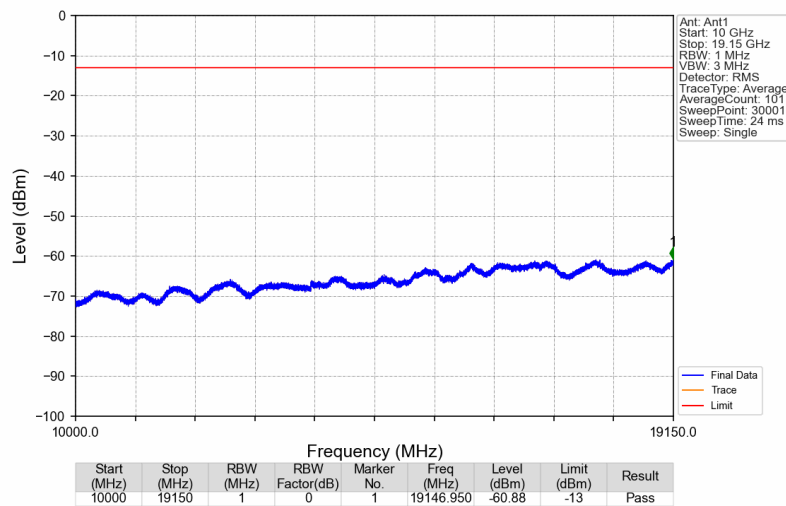
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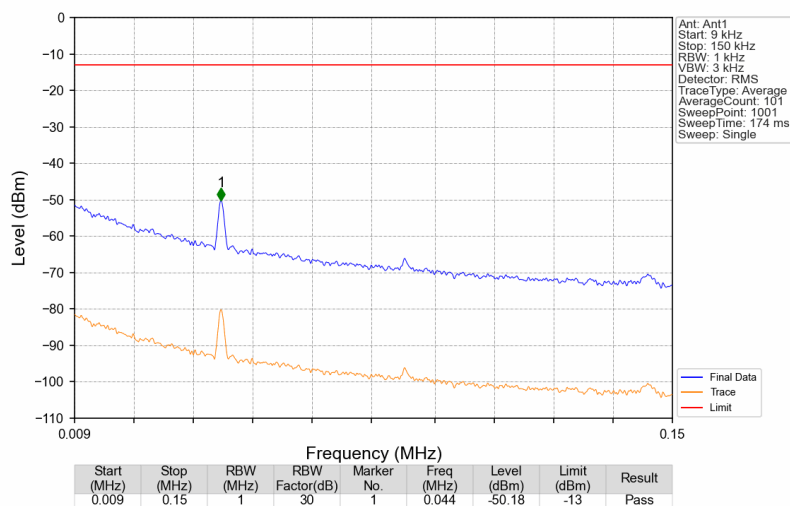
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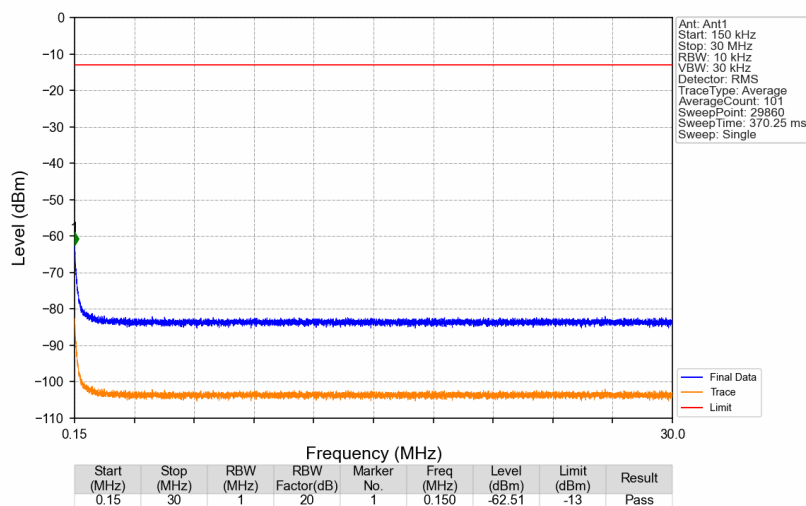
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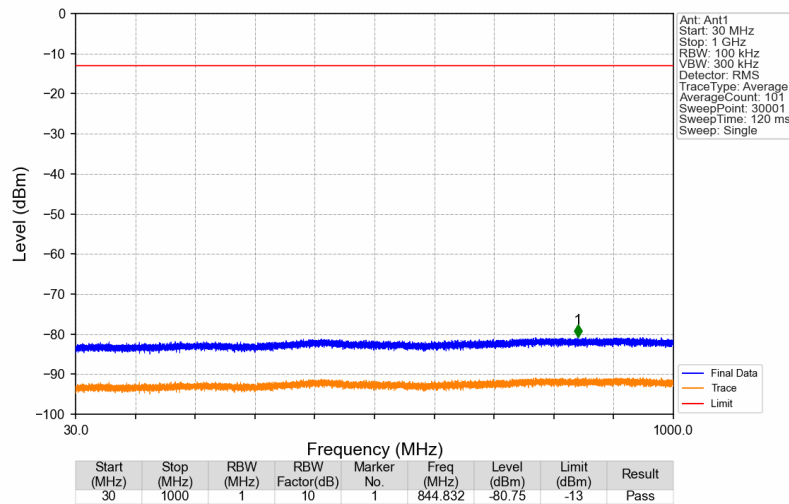
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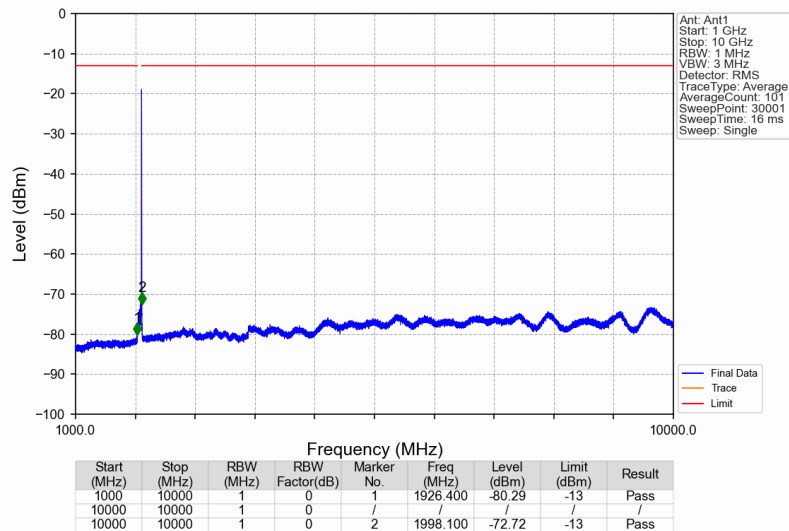
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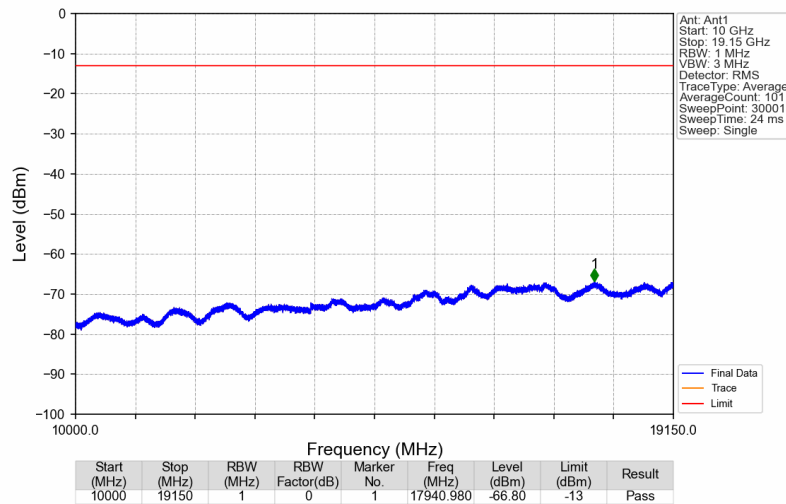


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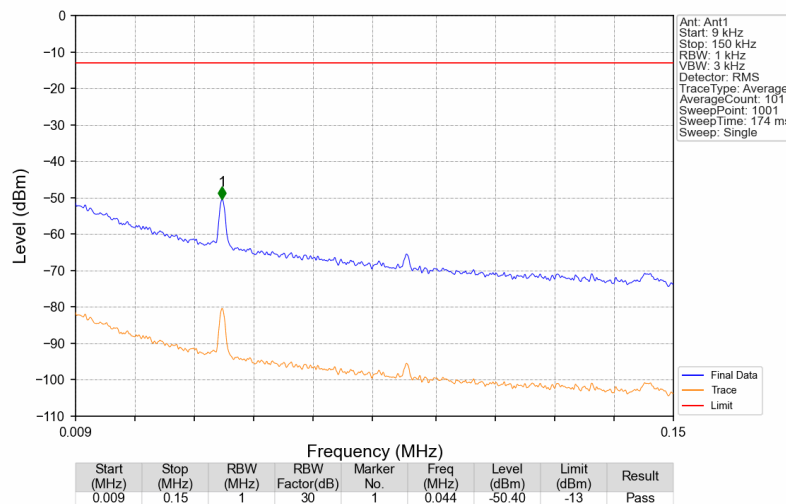
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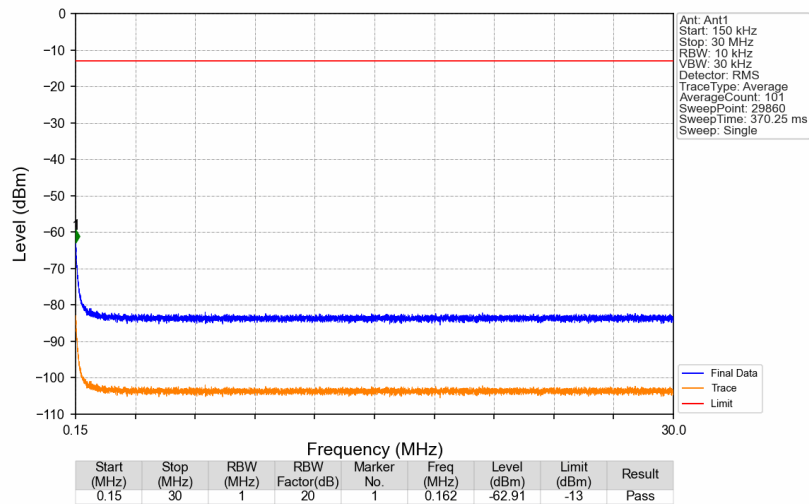
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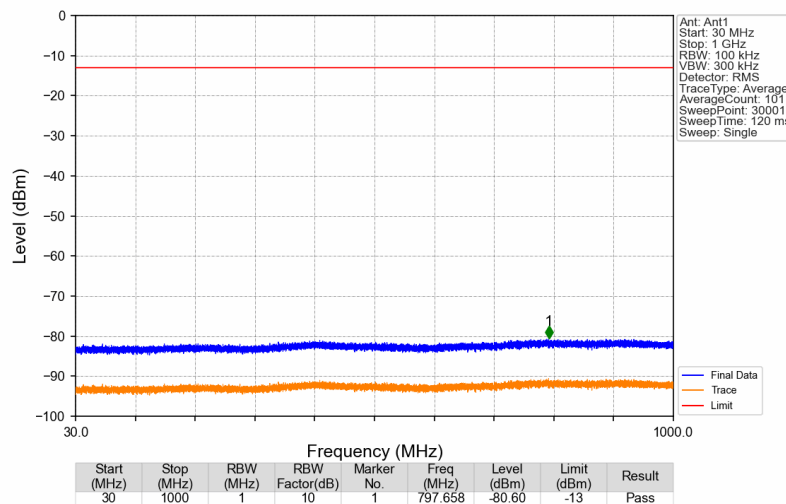
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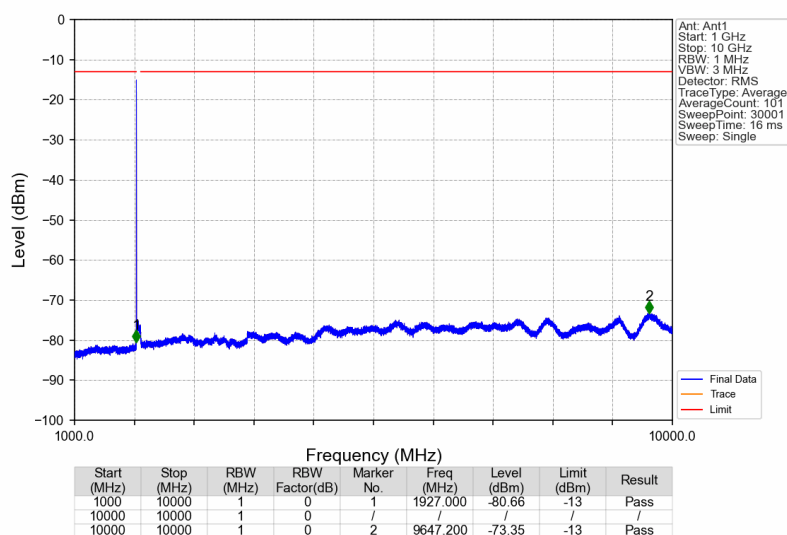
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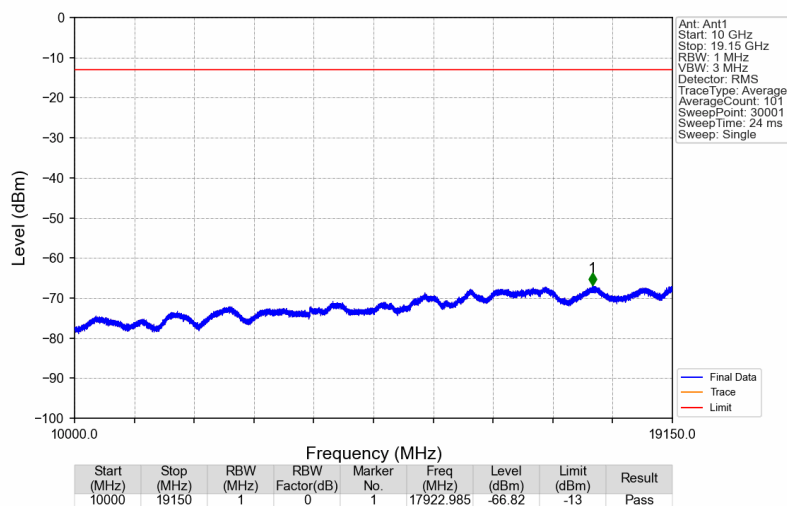
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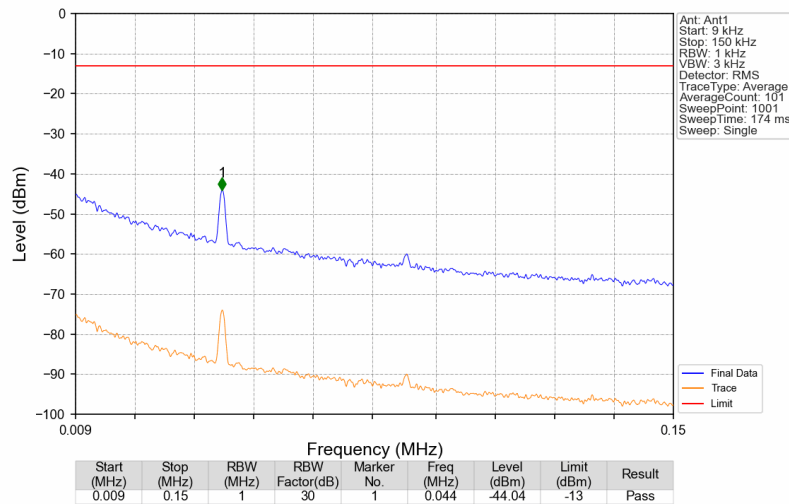
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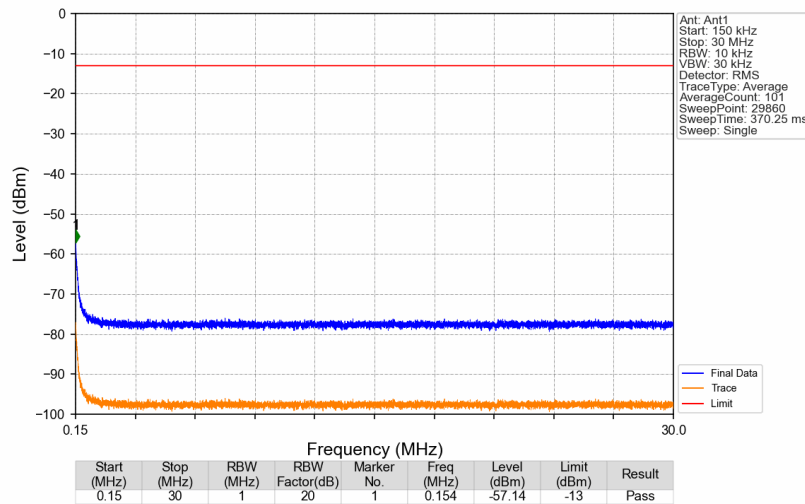
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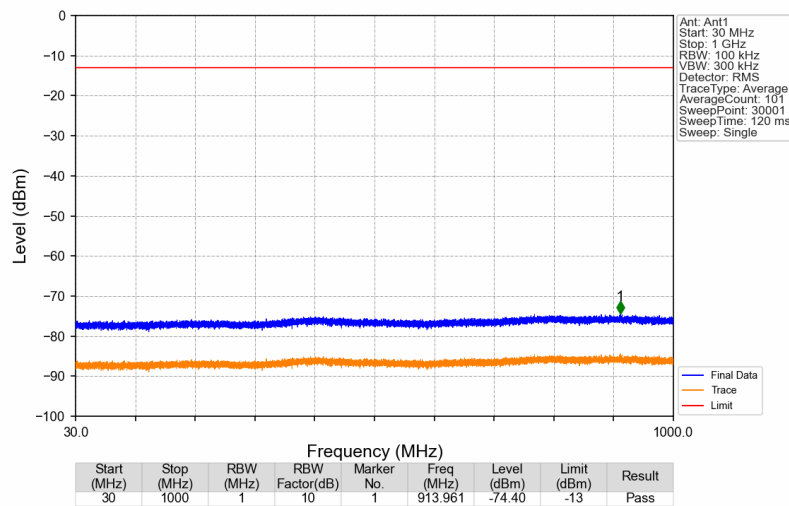
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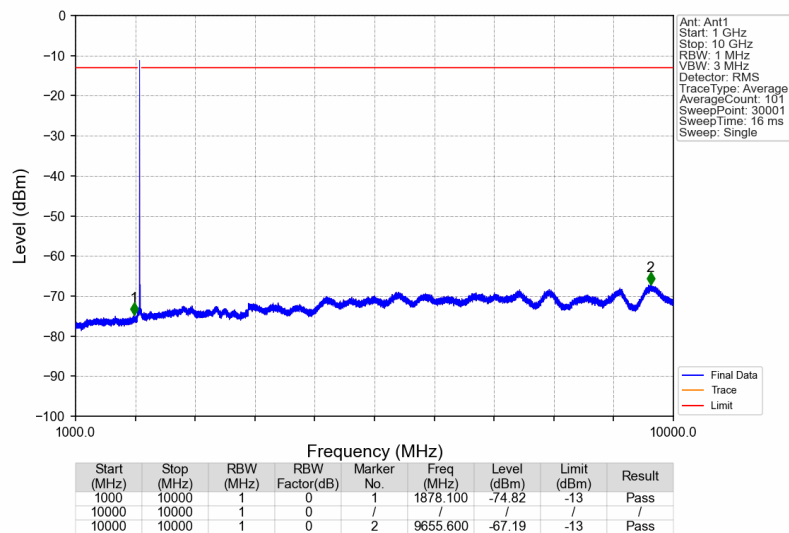
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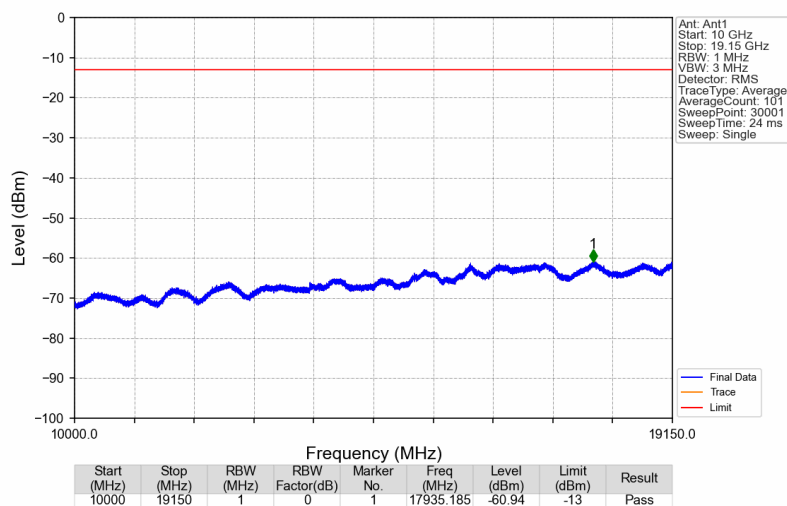
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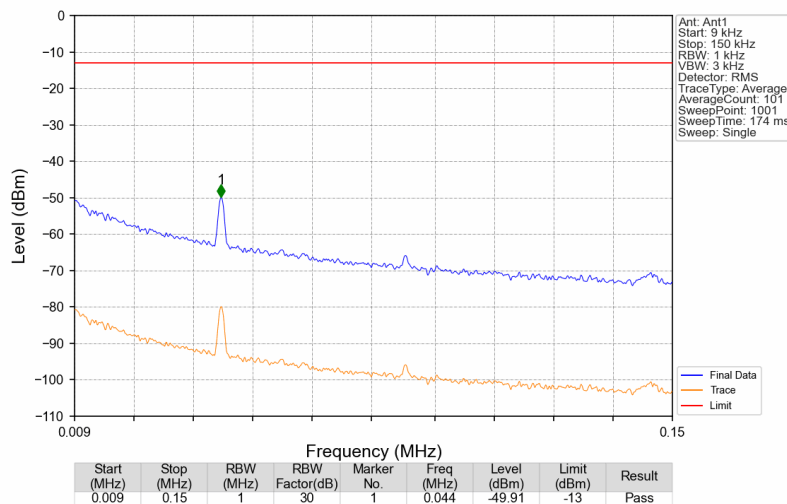
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Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV



Band25_1994.9MHz_GMSK_SISO_Ant1_NTNV



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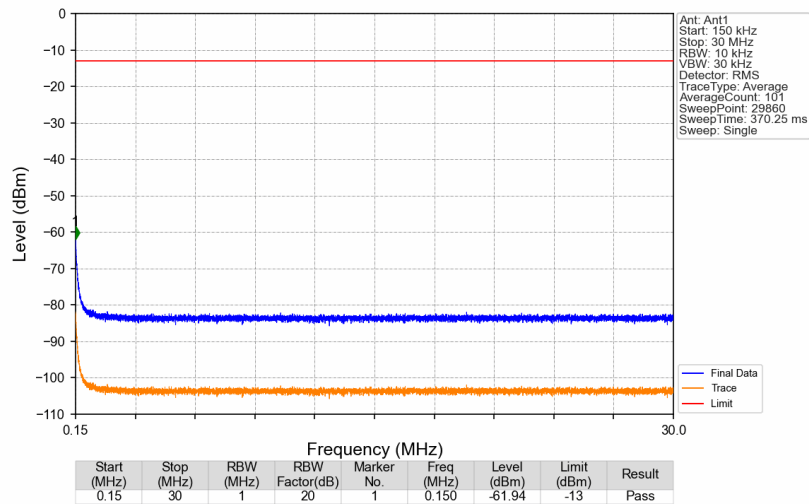
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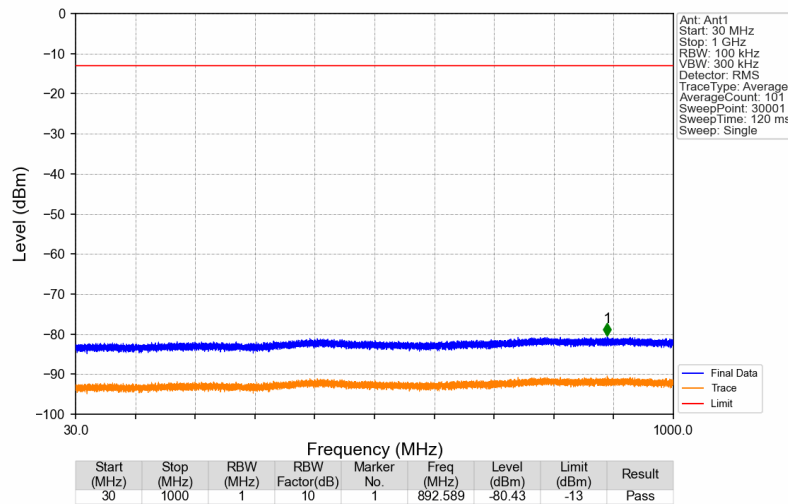
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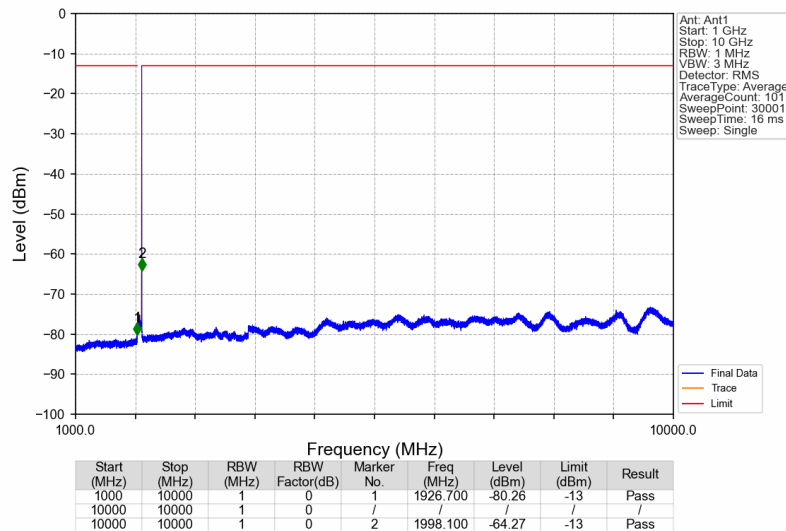
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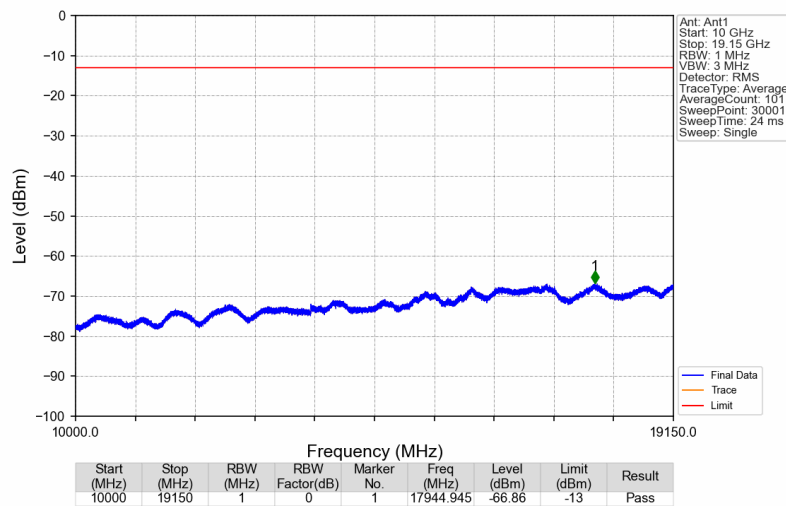
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7. Frequency stability measurements

7.1 Band25_Ant1

7.1.1 Test Result

| Band: 25 / NTNV | | | | | | | |
|-----------------|-------------|-----------------|--------------|------------------|---------------------|--------------------|---------|
| Signal | | | Temp (°C) | Voltage (VDC) | Freq. Error (Hz) | Tolerance (ppm) | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | | | |
| CW | -3.2 | 1930.1 | 20 | 40.2 | 0.00 | 0.00 | Pass |
| | | | | 48 | 0.00 | 0.00 | Pass |
| | | | | 55.8 | 0.00 | 0.00 | Pass |
| | | | -10 | 48 | 0.00 | 0.00 | Pass |
| | | | 0 | 48 | 0.00 | 0.00 | Pass |
| | | | 10 | 48 | 0.00 | 0.00 | Pass |
| | | | 30 | 48 | 0.00 | 0.00 | Pass |
| | | | 40 | 48 | 0.00 | 0.00 | Pass |
| | | | 45 | 48 | 0.00 | 0.00 | Pass |
| | | 1962.5 | 20 | 40.2 | 0.00 | 0.00 | Pass |
| | | | | 48 | 0.00 | 0.00 | Pass |
| | | | | 55.8 | 0.00 | 0.00 | Pass |
| | | | -10 | 48 | 0.00 | 0.00 | Pass |
| | | | 0 | 48 | 0.00 | 0.00 | Pass |
| | | | 10 | 48 | 0.00 | 0.00 | Pass |
| | | | 30 | 48 | 0.00 | 0.00 | Pass |
| | | | 40 | 48 | 0.00 | 0.00 | Pass |
| | | | 45 | 48 | 0.00 | 0.00 | Pass |
| | | 1994.9 | 20 | 40.2 | 0.00 | 0.00 | Pass |
| | | | | 48 | 0.00 | 0.00 | Pass |
| | | | | 55.8 | 0.00 | 0.00 | Pass |
| | | | -10 | 48 | 0.00 | 0.00 | Pass |
| | | | 0 | 48 | 0.00 | 0.00 | Pass |
| | | | 10 | 48 | 0.00 | 0.00 | Pass |
| | | | 30 | 48 | 0.00 | 0.00 | Pass |
| | | | 40 | 48 | 0.00 | 0.00 | Pass |
| | | | 45 | 48 | 0.00 | 0.00 | Pass |



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