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Appendix B.7

LTE Band 4



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Table with 9 columns: Band, Bandwidth, Modulation, Channel, RB Configuration, Result(dBm), EIRP(dBm), Limit(dBm), Verdict. It contains 28 rows of test data for Band 4 across various configurations and modulation schemes.



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|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#2 | 14.73 | 14.87 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#5 | 14.97 | 15.11 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 13.77 | 13.91 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0 | 14.58 | 14.72 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2 | 14.8 | 14.94 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5 | 14.65 | 14.79 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 13.6 | 13.74 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0 | 14.5 | 14.64 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2 | 14.66 | 14.8 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5 | 14.34 | 14.48 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 13.7 | 13.84 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#0 | 16.58 | 16.72 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#8 | 16.78 | 16.92 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#14 | 16.56 | 16.7 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 15.72 | 15.86 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#0 | 16.76 | 16.9 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#8 | 16.9 | 17.04 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#14 | 16.6 | 16.74 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 15.51 | 15.65 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#0 | 16.48 | 16.62 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#8 | 16.48 | 16.62 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#14 | 16.65 | 16.79 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 15.54 | 15.68 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0 | 15.67 | 15.81 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8 | 15.54 | 15.68 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 15.75 | 15.89 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 14.52 | 14.66 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0 | 15.74 | 15.88 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8 | 15.8 | 15.94 | 30.00 | PASS |



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Table with 9 columns: Band, Frequency, Modulation, Standard, RB, C1, C2, C3, Result. Contains 30 rows of test data for various modulation schemes (16QAM, 64QAM, QPSK) and standards (20175, 20385, 19965, 20375).



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Table with 9 columns: Band, Frequency, Modulation, Channel, Bandwidth, SNR, C/N, BER, and Result. It contains 30 rows of test data, all showing 'PASS' results.



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Table with 9 columns: Band, Frequency, Modulation, Standard, Test Item, SNR, C/N, BER, Result. Contains 30 rows of test data for various modulation schemes (QPSK, 16QAM, 64QAM) and standards (20175, 20350, 20000).



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Table with 9 columns: Band, Frequency, Modulation, Bandwidth, Channel, C/N, EIRP, and Result. Contains 30 rows of test data, all showing PASS results.



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Table with 9 columns: Band, Frequency, Modulation, Standard, Test Item, SNR, C/N, BER, Result. Contains 30 rows of test data for various modulation schemes like 64QAM, QPSK, and 16QAM.



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Table with 9 columns: Band, Frequency, Modulation, Channel Spacing, Bandwidth, SNR, BER, Error Rate, and Result. It contains 20 rows of test data for Band4, showing various modulation schemes (16QAM, 64QAM) and bandwidths (20MHz, 20050) with corresponding test results (PASS).



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2. Frequency Stability

2.1 B4_1.4MHz

2.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz | | | | | | | | | | |
|-----------------------------|-----------------|---------------|---------|------------|---------------|------------------|-----------------------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1710.7 | 6 | 0 | 20 | 3.5 | 5.155 | 0.0030 | / | Pass | |
| | | | | | 3.87 | 3.544 | 0.0021 | / | Pass | |
| | | | | | 4.45 | -1.003 | -0.0006 | / | Pass | |
| | | | | -30 | 3.87 | 2.074 | 0.0012 | / | Pass | |
| | | | | | -20 | 3.87 | -0.377 | -0.0002 | / | Pass |
| | | | | | | -10 | 3.87 | -0.725 | -0.0004 | / |
| | | | | 0 | 3.87 | -0.853 | -0.0005 | / | Pass | |
| | | | | 10 | 3.87 | 0.204 | 0.0001 | / | Pass | |
| | | | | 30 | 3.87 | -1.487 | -0.0009 | / | Pass | |
| | 40 | 3.87 | -1.478 | -0.0009 | / | Pass | | | | |
| | 50 | 3.87 | -0.311 | -0.0002 | / | Pass | | | | |
| | 1732.5 | 6 | 0 | 20 | 3.5 | -3.972 | -0.0023 | / | Pass | |
| | | | | | 3.87 | -0.760 | -0.0004 | / | Pass | |
| | | | | | 4.45 | 2.882 | 0.0017 | / | Pass | |
| | | | | -30 | 3.87 | 2.919 | 0.0017 | / | Pass | |
| | | | | | -20 | 3.87 | 4.147 | 0.0024 | / | Pass |
| | | | | | | -10 | 3.87 | -0.041 | 0.0000 | / |
| | | | | 0 | 3.87 | 1.789 | 0.0010 | / | Pass | |
| | | | | 10 | 3.87 | -0.113 | -0.0001 | / | Pass | |
| | | | | 30 | 3.87 | 3.018 | 0.0017 | / | Pass | |
| | 40 | 3.87 | 1.581 | 0.0009 | / | Pass | | | | |
| | 50 | 3.87 | 3.644 | 0.0021 | / | Pass | | | | |
| | 1754.3 | 6 | 0 | 20 | 3.5 | 0.720 | 0.0004 | / | Pass | |
| | | | | | 3.87 | 4.501 | 0.0026 | / | Pass | |
| | | | | | 4.45 | 1.996 | 0.0011 | / | Pass | |
| | | | | -30 | 3.87 | 3.655 | 0.0021 | / | Pass | |
| | | | | | -20 | 3.87 | 0.067 | 0.0000 | / | Pass |
| -10 | | | | | | 3.87 | 4.781 | 0.0027 | / | Pass |
| 0 | | | | 3.87 | 2.704 | 0.0015 | / | Pass | | |
| 10 | | | | 3.87 | 5.057 | 0.0029 | / | Pass | | |
| 30 | | | | 3.87 | 2.997 | 0.0017 | / | Pass | | |
| 40 | 3.87 | 4.019 | 0.0023 | / | Pass | | | | | |
| 50 | 3.87 | 1.727 | 0.0010 | / | Pass | | | | | |
| 16QAM | 1710.7 | 6 | 0 | 20 | 3.5 | 1.910 | 0.0011 | / | Pass | |
| | | | | | 3.87 | -3.027 | -0.0018 | / | Pass | |
| | | | | | 4.45 | -0.100 | -0.0001 | / | Pass | |
| | | | | -30 | 3.87 | 1.581 | 0.0009 | / | Pass | |
| | | | | | -20 | 3.87 | 0.822 | 0.0005 | / | Pass |
| -10 | 3.87 | -0.729 | -0.0004 | / | Pass | | | | | |



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| | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|-------|--------|---------|-------|--------|---------|------|------|
| 64QAM | 1732.5 | 6 | 0 | 0 | 3.87 | -2.786 | -0.0016 | / | Pass | | | |
| | | | | 10 | 3.87 | 1.392 | 0.0008 | / | Pass | | | |
| | | | | 30 | 3.87 | 0.979 | 0.0006 | / | Pass | | | |
| | | | | 40 | 3.87 | 2.121 | 0.0012 | / | Pass | | | |
| | | | | 50 | 3.87 | 0.087 | 0.0001 | / | Pass | | | |
| | 1754.3 | 6 | 0 | 20 | 3.5 | 2.544 | 0.0015 | / | Pass | | | |
| | | | | | 3.87 | 2.475 | 0.0014 | / | Pass | | | |
| | | | | | 4.45 | 0.785 | 0.0005 | / | Pass | | | |
| | | | | -30 | 3.87 | 0.103 | 0.0001 | / | Pass | | | |
| | | | | -20 | 3.87 | 0.701 | 0.0004 | / | Pass | | | |
| | | | | -10 | 3.87 | -0.500 | -0.0003 | / | Pass | | | |
| | | | | 0 | 3.87 | 1.855 | 0.0011 | / | Pass | | | |
| | | | | 10 | 3.87 | -0.967 | -0.0006 | / | Pass | | | |
| | | | | 30 | 3.87 | 2.638 | 0.0015 | / | Pass | | | |
| | | | | 40 | 3.87 | 1.684 | 0.0010 | / | Pass | | | |
| | | | | 50 | 3.87 | -8.934 | -0.0052 | / | Pass | | | |
| | | | | 1710.7 | 6 | 0 | 20 | 3.5 | 2.099 | 0.0012 | / | Pass |
| | | | | | | | | 3.87 | 4.112 | 0.0023 | / | Pass |
| | | | | | | | | 4.45 | 3.346 | 0.0019 | / | Pass |
| | | | | | | | -30 | 3.87 | 1.488 | 0.0008 | / | Pass |
| | -20 | 3.87 | 2.587 | | | | 0.0015 | / | Pass | | | |
| | -10 | 3.87 | 3.578 | | | | 0.0020 | / | Pass | | | |
| | 0 | 3.87 | 0.600 | | | | 0.0003 | / | Pass | | | |
| | 10 | 3.87 | -0.301 | | | | -0.0002 | / | Pass | | | |
| | 30 | 3.87 | 1.842 | | | | 0.0010 | / | Pass | | | |
| | 40 | 3.87 | 2.300 | | | | 0.0013 | / | Pass | | | |
| | 50 | 3.87 | 4.532 | | | | 0.0026 | / | Pass | | | |
| | 1732.5 | 6 | 0 | | | | 20 | 3.5 | 2.296 | 0.0013 | / | Pass |
| | | | | | | | | 3.87 | -1.372 | -0.0008 | / | Pass |
| | | | | | | | | 4.45 | -2.700 | -0.0016 | / | Pass |
| | | | | | | | -30 | 3.87 | -0.833 | -0.0005 | / | Pass |
| | | | | -20 | 3.87 | -3.474 | -0.0020 | / | Pass | | | |
| | | | | -10 | 3.87 | 1.237 | 0.0007 | / | Pass | | | |
| | | | | 0 | 3.87 | -2.889 | -0.0017 | / | Pass | | | |
| | | | | 10 | 3.87 | -1.230 | -0.0007 | / | Pass | | | |
| 30 | | | | 3.87 | 1.922 | 0.0011 | / | Pass | | | | |
| 40 | | | | 3.87 | 0.448 | 0.0003 | / | Pass | | | | |
| 50 | | | | 3.87 | 1.889 | 0.0011 | / | Pass | | | | |
| 1732.5 | | | | 6 | 0 | 20 | 3.5 | 6.151 | 0.0036 | / | Pass | |
| | | | | | | | 3.87 | 1.145 | 0.0007 | / | Pass | |
| | | | | | | | 4.45 | 2.173 | 0.0013 | / | Pass | |
| | | | | | | -30 | 3.87 | 1.429 | 0.0008 | / | Pass | |
| | -20 | 3.87 | 5.467 | | | 0.0032 | / | Pass | | | | |
| | -10 | 3.87 | 0.162 | | | 0.0001 | / | Pass | | | | |
| | 0 | 3.87 | 2.463 | | | 0.0014 | / | Pass | | | | |
| | 10 | 3.87 | 0.466 | | | 0.0003 | / | Pass | | | | |
| | 30 | 3.87 | 2.619 | | | 0.0015 | / | Pass | | | | |
| | 40 | 3.87 | 1.544 | | | 0.0009 | / | Pass | | | | |
| 50 | 3.87 | 1.675 | 0.0010 | / | Pass | | | | | | | |



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| | | | | | | | | | |
|----|--------|-------|--------|-----|------|-------|--------|---|------|
| | 1754.3 | 6 | 0 | 20 | 3.5 | 0.662 | 0.0004 | / | Pass |
| | | | | | 3.87 | 1.936 | 0.0011 | / | Pass |
| | | | | | 4.45 | 1.225 | 0.0007 | / | Pass |
| | | | | -30 | 3.87 | 0.461 | 0.0003 | / | Pass |
| | | | | -20 | 3.87 | 3.389 | 0.0019 | / | Pass |
| | | | | -10 | 3.87 | 3.743 | 0.0021 | / | Pass |
| | | | | 0 | 3.87 | 2.661 | 0.0015 | / | Pass |
| | | | | 10 | 3.87 | 0.662 | 0.0004 | / | Pass |
| | | | | 30 | 3.87 | 3.824 | 0.0022 | / | Pass |
| | | | | 40 | 3.87 | 3.537 | 0.0020 | / | Pass |
| 50 | 3.87 | 3.016 | 0.0017 | / | Pass | | | | |



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2.2 B4_3MHz

2.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz | | | | | | | | | | |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1711.5 | 15 | 0 | 20 | 3.5 | 3.391 | 0.0020 | / | Pass | |
| | | | | | 3.87 | -4.789 | -0.0028 | / | Pass | |
| | | | | | 4.45 | 0.751 | 0.0004 | / | Pass | |
| | | | | -30 | 3.87 | -0.452 | -0.0003 | / | Pass | |
| | | | | | -20 | 3.87 | 0.845 | 0.0005 | / | Pass |
| | | | | | | -10 | 3.87 | -4.713 | -0.0028 | / |
| | | | | 0 | 3.87 | -6.837 | -0.0040 | / | Pass | |
| | | | | 10 | 3.87 | -2.722 | -0.0016 | / | Pass | |
| | | | | 30 | 3.87 | 6.110 | 0.0036 | / | Pass | |
| | | | | 40 | 3.87 | 1.410 | 0.0008 | / | Pass | |
| | 50 | 3.87 | -1.823 | -0.0011 | / | Pass | | | | |
| | 1732.5 | 15 | 0 | 20 | 3.5 | -1.168 | -0.0007 | / | Pass | |
| | | | | | 3.87 | -0.984 | -0.0006 | / | Pass | |
| | | | | | 4.45 | -3.178 | -0.0018 | / | Pass | |
| | | | | -30 | 3.87 | -1.003 | -0.0006 | / | Pass | |
| | | | | | -20 | 3.87 | 0.964 | 0.0006 | / | Pass |
| | | | | | | -10 | 3.87 | -0.940 | -0.0005 | / |
| | | | | 0 | 3.87 | -1.514 | -0.0009 | / | Pass | |
| | | | | 10 | 3.87 | 1.186 | 0.0007 | / | Pass | |
| | | | | 30 | 3.87 | -3.611 | -0.0021 | / | Pass | |
| | | | | 40 | 3.87 | 1.680 | 0.0010 | / | Pass | |
| | 50 | 3.87 | -3.636 | -0.0021 | / | Pass | | | | |
| | 1753.5 | 15 | 0 | 20 | 3.5 | 0.241 | 0.0001 | / | Pass | |
| | | | | | 3.87 | 2.080 | 0.0012 | / | Pass | |
| | | | | | 4.45 | 2.365 | 0.0013 | / | Pass | |
| | | | | -30 | 3.87 | 1.552 | 0.0009 | / | Pass | |
| | | | | | -20 | 3.87 | 3.215 | 0.0018 | / | Pass |
| | | | | | | -10 | 3.87 | 2.578 | 0.0015 | / |
| | | | | 0 | 3.87 | -1.482 | -0.0008 | / | Pass | |
| | | | | 10 | 3.87 | 2.786 | 0.0016 | / | Pass | |
| 30 | | | | 3.87 | 2.613 | 0.0015 | / | Pass | | |
| 40 | | | | 3.87 | 1.565 | 0.0009 | / | Pass | | |
| 50 | 3.87 | 0.854 | 0.0005 | / | Pass | | | | | |
| 16QAM | 1711.5 | 15 | 0 | 20 | 3.5 | -0.578 | -0.0003 | / | Pass | |
| | | | | | 3.87 | -2.908 | -0.0017 | / | Pass | |
| | | | | | 4.45 | -0.887 | -0.0005 | / | Pass | |
| | | | | -30 | 3.87 | -0.624 | -0.0004 | / | Pass | |
| | | | | | -20 | 3.87 | -1.172 | -0.0007 | / | Pass |
| | | | | | | -10 | 3.87 | -3.001 | -0.0018 | / |
| | | | | 0 | 3.87 | 0.775 | 0.0005 | / | Pass | |
| | | | | 10 | 3.87 | 1.436 | 0.0008 | / | Pass | |



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

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| | | | | | | | | | | | | | |
|--------|--------|--------|---------|--------|------|--------|---------|---------|------|--------|---------|---|------|
| | | | | 30 | 3.87 | -1.296 | -0.0008 | / | Pass | | | | |
| | | | | 40 | 3.87 | -3.090 | -0.0018 | / | Pass | | | | |
| | | | | 50 | 3.87 | -3.073 | -0.0018 | / | Pass | | | | |
| | | | | 20 | 3.5 | 0.738 | 0.0004 | / | Pass | | | | |
| 1732.5 | 15 | 0 | | 20 | 3.87 | -0.589 | -0.0003 | / | Pass | | | | |
| | | | | | 4.45 | -2.370 | -0.0014 | / | Pass | | | | |
| | | | | -30 | 3.87 | 1.995 | 0.0012 | / | Pass | | | | |
| | | | | -20 | 3.87 | 3.265 | 0.0019 | / | Pass | | | | |
| | | | | -10 | 3.87 | -1.235 | -0.0007 | / | Pass | | | | |
| | | | | 0 | 3.87 | -0.416 | -0.0002 | / | Pass | | | | |
| | | | | 10 | 3.87 | -1.916 | -0.0011 | / | Pass | | | | |
| | | | | 30 | 3.87 | 0.726 | 0.0004 | / | Pass | | | | |
| | | | | 40 | 3.87 | 0.131 | 0.0001 | / | Pass | | | | |
| | | | | 50 | 3.87 | 0.527 | 0.0003 | / | Pass | | | | |
| | | | | 1753.5 | 15 | 0 | | 20 | 3.5 | 2.429 | 0.0014 | / | Pass |
| | | | | | | | | | 3.87 | 0.474 | 0.0003 | / | Pass |
| | 4.45 | 0.506 | 0.0003 | | | | | / | Pass | | | | |
| -30 | 3.87 | 1.159 | 0.0007 | | | | | / | Pass | | | | |
| -20 | 3.87 | 0.554 | 0.0003 | | | | | / | Pass | | | | |
| -10 | 3.87 | 1.525 | 0.0009 | | | | | / | Pass | | | | |
| 0 | 3.87 | 1.437 | 0.0008 | | | | | / | Pass | | | | |
| 10 | 3.87 | -0.596 | -0.0003 | | | | | / | Pass | | | | |
| 30 | 3.87 | 2.216 | 0.0013 | | | | | / | Pass | | | | |
| 40 | 3.87 | 2.919 | 0.0017 | | | | | / | Pass | | | | |
| 50 | 3.87 | 0.480 | 0.0003 | | | | | / | Pass | | | | |
| 64QAM | 1711.5 | 15 | 0 | | | | | 20 | 3.5 | -1.717 | -0.0010 | / | Pass |
| | | | | | 3.87 | -3.097 | -0.0018 | / | Pass | | | | |
| | | | | | 4.45 | -3.112 | -0.0018 | / | Pass | | | | |
| | | | | -30 | 3.87 | -3.825 | -0.0022 | / | Pass | | | | |
| | | | | -20 | 3.87 | 0.964 | 0.0006 | / | Pass | | | | |
| | | | | -10 | 3.87 | -2.172 | -0.0013 | / | Pass | | | | |
| | | | | 0 | 3.87 | -0.049 | 0.0000 | / | Pass | | | | |
| | | | | 10 | 3.87 | -0.941 | -0.0005 | / | Pass | | | | |
| | | | | 30 | 3.87 | -3.411 | -0.0020 | / | Pass | | | | |
| | | | | 40 | 3.87 | -1.251 | -0.0007 | / | Pass | | | | |
| | | | | 50 | 3.87 | -1.408 | -0.0008 | / | Pass | | | | |
| | | | | 1732.5 | 15 | 0 | | 20 | 3.5 | -3.238 | -0.0019 | / | Pass |
| | | 3.87 | -0.682 | | | | | -0.0004 | / | Pass | | | |
| | | 4.45 | -2.429 | | | | | -0.0014 | / | Pass | | | |
| | -30 | 3.87 | 0.350 | | | | | 0.0002 | / | Pass | | | |
| | -20 | 3.87 | -2.813 | | | | | -0.0016 | / | Pass | | | |
| | -10 | 3.87 | -6.317 | | | | | -0.0036 | / | Pass | | | |
| | 0 | 3.87 | 7.247 | | | | | 0.0042 | / | Pass | | | |
| | 10 | 3.87 | 3.676 | | | | | 0.0021 | / | Pass | | | |
| | 1753.5 | 15 | 0 | | 20 | 3.5 | -0.066 | 0.0000 | / | Pass | | | |
| | | | | | 3.87 | 3.316 | 0.0019 | / | Pass | | | | |



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| | | | | | | | | |
|--|--|--|-----|------|--------|---------|---|------|
| | | | | 4.45 | -0.344 | -0.0002 | / | Pass |
| | | | -30 | 3.87 | -0.695 | -0.0004 | / | Pass |
| | | | -20 | 3.87 | -2.417 | -0.0014 | / | Pass |
| | | | -10 | 3.87 | -3.713 | -0.0021 | / | Pass |
| | | | 0 | 3.87 | 0.080 | 0.0000 | / | Pass |
| | | | 10 | 3.87 | 1.364 | 0.0008 | / | Pass |
| | | | 30 | 3.87 | -0.709 | -0.0004 | / | Pass |
| | | | 40 | 3.87 | 1.651 | 0.0009 | / | Pass |
| | | | 50 | 3.87 | -1.607 | -0.0009 | / | Pass |



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2.3 B4_5MHz

2.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz | | | | | | | | | | |
|---------------------------|-----------------|---------------|---------|------------|---------------|------------------|-----------------------|--------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1712.5 | 25 | 0 | 20 | 3.5 | 5.772 | 0.0034 | / | Pass | |
| | | | | | 3.87 | 4.208 | 0.0025 | / | Pass | |
| | | | | | 4.45 | 5.129 | 0.0030 | / | Pass | |
| | | | | -30 | 3.87 | 4.229 | 0.0025 | / | Pass | |
| | | | | | -20 | 3.87 | 2.334 | 0.0014 | / | Pass |
| | | | | | | -10 | 3.87 | 5.215 | 0.0030 | / |
| | | | | 0 | 3.87 | 5.107 | 0.0030 | / | Pass | |
| | | | | 10 | 3.87 | 4.561 | 0.0027 | / | Pass | |
| | | | | 30 | 3.87 | 3.651 | 0.0021 | / | Pass | |
| | | | | 40 | 3.87 | 5.080 | 0.0030 | / | Pass | |
| | 50 | 3.87 | 4.385 | 0.0026 | / | Pass | | | | |
| | 1732.5 | 25 | 0 | 20 | 3.5 | -1.468 | -0.0008 | / | Pass | |
| | | | | | 3.87 | 0.371 | 0.0002 | / | Pass | |
| | | | | | 4.45 | -1.092 | -0.0006 | / | Pass | |
| | | | | -30 | 3.87 | 0.192 | 0.0001 | / | Pass | |
| | | | | | -20 | 3.87 | 0.530 | 0.0003 | / | Pass |
| | | | | | | -10 | 3.87 | 1.234 | 0.0007 | / |
| | | | | 0 | 3.87 | 1.693 | 0.0010 | / | Pass | |
| | | | | 10 | 3.87 | 0.799 | 0.0005 | / | Pass | |
| | | | | 30 | 3.87 | 1.734 | 0.0010 | / | Pass | |
| | | | | 40 | 3.87 | 2.210 | 0.0013 | / | Pass | |
| | 50 | 3.87 | 0.281 | 0.0002 | / | Pass | | | | |
| | 1752.5 | 25 | 0 | 20 | 3.5 | 6.828 | 0.0039 | / | Pass | |
| | | | | | 3.87 | 2.067 | 0.0012 | / | Pass | |
| | | | | | 4.45 | -0.154 | -0.0001 | / | Pass | |
| | | | | -30 | 3.87 | -3.117 | -0.0018 | / | Pass | |
| | | | | | -20 | 3.87 | 0.212 | 0.0001 | / | Pass |
| | | | | | | -10 | 3.87 | 2.889 | 0.0016 | / |
| | | | | 0 | 3.87 | 0.033 | 0.0000 | / | Pass | |
| | | | | 10 | 3.87 | 0.852 | 0.0005 | / | Pass | |
| 30 | | | | 3.87 | 3.933 | 0.0022 | / | Pass | | |
| 40 | | | | 3.87 | -1.202 | -0.0007 | / | Pass | | |
| 50 | 3.87 | -3.940 | -0.0022 | / | Pass | | | | | |
| 16QAM | 1712.5 | 25 | 0 | 20 | 3.5 | 4.901 | 0.0029 | / | Pass | |
| | | | | | 3.87 | 5.364 | 0.0031 | / | Pass | |
| | | | | | 4.45 | -4.185 | -0.0024 | / | Pass | |
| | | | | -30 | 3.87 | 6.362 | 0.0037 | / | Pass | |
| | | | | | -20 | 3.87 | 6.202 | 0.0036 | / | Pass |
| | | | | | | -10 | 3.87 | 5.817 | 0.0034 | / |
| | | | | 0 | 3.87 | 6.342 | 0.0037 | / | Pass | |
| | | | | 10 | 3.87 | 1.951 | 0.0011 | / | Pass | |



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| | | | | | | | | | | | | | | |
|--------|--------|---------|---|------|--------|--------|--------|---------|--------|-------|--------|---------|------|--------|
| | | | | 30 | 3.87 | 5.088 | 0.0030 | / | Pass | | | | | |
| | | | | 40 | 3.87 | 4.307 | 0.0025 | / | Pass | | | | | |
| | | | | 50 | 3.87 | 4.933 | 0.0029 | / | Pass | | | | | |
| 1732.5 | 25 | 0 | | 20 | 3.5 | 0.741 | 0.0004 | / | Pass | | | | | |
| | | | | | 3.87 | 2.616 | 0.0015 | / | Pass | | | | | |
| | | | | | 4.45 | 1.046 | 0.0006 | / | Pass | | | | | |
| | | | | | | | | -30 | 3.87 | 1.304 | 0.0008 | / | Pass | |
| | | | | | | | | | -20 | 3.87 | 0.955 | 0.0006 | / | Pass |
| | | | | | | | | | -10 | 3.87 | 0.335 | 0.0002 | / | Pass |
| | | | | | | | | 0 | 0 | 3.87 | 1.448 | 0.0008 | / | Pass |
| | | | | | | | | | 10 | 3.87 | 2.400 | 0.0014 | / | Pass |
| | | | | | | | | | 30 | 3.87 | 2.971 | 0.0017 | / | Pass |
| | | | | | | | | | 40 | 3.87 | -0.209 | -0.0001 | / | Pass |
| | | | | | | | | | 50 | 3.87 | 0.520 | 0.0003 | / | Pass |
| | | | | | | | | | 1752.5 | 25 | 0 | | 20 | 3.5 |
| 3.87 | 1.068 | 0.0006 | / | | | | | | | | | | | Pass |
| 4.45 | -1.336 | -0.0008 | / | Pass | | | | | | | | | | |
| | | | | -30 | 3.87 | 1.286 | 0.0007 | / | | | | | Pass | |
| | | | | | -20 | 3.87 | -0.189 | -0.0001 | | | | | / | Pass |
| | | | | | -10 | 3.87 | 4.236 | 0.0024 | | | | | / | Pass |
| | | | | 0 | 0 | 3.87 | -1.760 | -0.0010 | | | | | / | Pass |
| | | | | | 10 | 3.87 | 0.716 | 0.0004 | | | | | / | Pass |
| | | | | | 30 | 3.87 | 0.278 | 0.0002 | | | | | / | Pass |
| | | | | | 40 | 3.87 | -1.487 | -0.0008 | | | | | / | Pass |
| | | | | | 50 | 3.87 | -0.637 | -0.0004 | | | | | / | Pass |
| | | | | | 64QAM | 1712.5 | 25 | 0 | | | | | 20 | 3.5 |
| | | | | | | | | | 3.87 | 0.979 | 0.0006 | / | | Pass |
| 4.45 | 2.303 | 0.0013 | / | Pass | | | | | | | | | | |
| | | | | -30 | | | | | 3.87 | 1.927 | 0.0011 | / | Pass | |
| | | | | | | | | | -20 | 3.87 | 2.946 | 0.0017 | / | Pass |
| | | | | | | | | | -10 | 3.87 | 4.572 | 0.0027 | / | Pass |
| | | | | 0 | | | | | 0 | 3.87 | 3.576 | 0.0021 | / | Pass |
| | | | | | | | | | 10 | 3.87 | -0.369 | -0.0002 | / | Pass |
| | | | | | | | | | 30 | 3.87 | 3.253 | 0.0019 | / | Pass |
| | | | | | | | | | 40 | 3.87 | 0.096 | 0.0001 | / | Pass |
| | | | | | | | | | 50 | 3.87 | 1.626 | 0.0009 | / | Pass |
| | | | | | | | | | 1732.5 | 25 | 0 | | 20 | 3.5 |
| | | | | | 3.87 | 1.390 | 0.0008 | / | | | | | | Pass |
| 4.45 | -0.872 | -0.0005 | / | Pass | | | | | | | | | | |
| | | | | -30 | 3.87 | 3.787 | 0.0022 | / | | | | | Pass | |
| | | | | | -20 | 3.87 | 2.054 | 0.0012 | | | | | / | Pass |
| | | | | | -10 | 3.87 | -0.553 | -0.0003 | | | | | / | Pass |
| | | | | 0 | 0 | 3.87 | 0.696 | 0.0004 | | | | | / | Pass |
| | | | | | 10 | 3.87 | -0.361 | -0.0002 | | | | | / | Pass |
| | | | | | 30 | 3.87 | 0.955 | 0.0006 | | | | | / | Pass |
| | | | | | 40 | 3.87 | 0.336 | 0.0002 | | | | | / | Pass |
| | | | | | 50 | 3.87 | 2.520 | 0.0015 | | | | | / | Pass |
| | | | | | 1752.5 | 25 | 0 | 20 | | | | | 3.5 | -1.332 |
| | | | | | | | | | 3.87 | 1.636 | 0.0009 | / | Pass | |



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| | | | | | | | | |
|--|--|--|--|------|--------|---------|---------|------|
| | | | | 4.45 | -2.166 | -0.0012 | / | Pass |
| | | | | -30 | 3.87 | 0.957 | 0.0005 | Pass |
| | | | | -20 | 3.87 | 0.014 | 0.0000 | Pass |
| | | | | -10 | 3.87 | 3.261 | 0.0019 | Pass |
| | | | | 0 | 3.87 | 1.252 | 0.0007 | Pass |
| | | | | 10 | 3.87 | -2.127 | -0.0012 | Pass |
| | | | | 30 | 3.87 | 1.891 | 0.0011 | Pass |
| | | | | 40 | 3.87 | 2.064 | 0.0012 | Pass |
| | | | | 50 | 3.87 | -0.836 | -0.0005 | Pass |



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2.4 B4_10MHz

2.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz | | | | | | | | | | |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1715 | 50 | 0 | 20 | 3.5 | -0.222 | -0.0001 | / | Pass | |
| | | | | | 3.87 | -4.358 | -0.0025 | / | Pass | |
| | | | | | 4.45 | -0.205 | -0.0001 | / | Pass | |
| | | | | -30 | 3.87 | -0.021 | 0.0000 | / | Pass | |
| | | | | | -20 | 3.87 | -0.221 | -0.0001 | / | Pass |
| | | | | | | -10 | 3.87 | -1.254 | -0.0007 | / |
| | | | | 0 | 3.87 | 0.479 | 0.0003 | / | Pass | |
| | | | | 10 | 3.87 | 0.173 | 0.0001 | / | Pass | |
| | | | | 30 | 3.87 | -1.544 | -0.0009 | / | Pass | |
| | | | | 40 | 3.87 | -0.742 | -0.0004 | / | Pass | |
| | 50 | 3.87 | -1.137 | -0.0007 | / | Pass | | | | |
| | 1732.5 | 50 | 0 | 20 | 3.5 | 1.121 | 0.0006 | / | Pass | |
| | | | | | 3.87 | 4.728 | 0.0027 | / | Pass | |
| | | | | | 4.45 | 4.999 | 0.0029 | / | Pass | |
| | | | | -30 | 3.87 | 3.676 | 0.0021 | / | Pass | |
| | | | | | -20 | 3.87 | 3.524 | 0.0020 | / | Pass |
| | | | | | | -10 | 3.87 | 5.722 | 0.0033 | / |
| | | | | 0 | 3.87 | 2.607 | 0.0015 | / | Pass | |
| | | | | 10 | 3.87 | 4.096 | 0.0024 | / | Pass | |
| | | | | 30 | 3.87 | 1.138 | 0.0007 | / | Pass | |
| | | | | 40 | 3.87 | 4.304 | 0.0025 | / | Pass | |
| | 50 | 3.87 | 4.405 | 0.0025 | / | Pass | | | | |
| | 1750 | 50 | 0 | 20 | 3.5 | -0.146 | -0.0001 | / | Pass | |
| | | | | | 3.87 | 3.090 | 0.0018 | / | Pass | |
| | | | | | 4.45 | 2.768 | 0.0016 | / | Pass | |
| | | | | -30 | 3.87 | 0.047 | 0.0000 | / | Pass | |
| | | | | | -20 | 3.87 | 3.530 | 0.0020 | / | Pass |
| | | | | | | -10 | 3.87 | 1.274 | 0.0007 | / |
| | | | | 0 | 3.87 | 0.012 | 0.0000 | / | Pass | |
| | | | | 10 | 3.87 | -4.037 | -0.0023 | / | Pass | |
| 30 | | | | 3.87 | 6.641 | 0.0038 | / | Pass | | |
| 40 | | | | 3.87 | 2.389 | 0.0014 | / | Pass | | |
| 50 | 3.87 | 1.857 | 0.0011 | / | Pass | | | | | |
| 16QAM | 1715 | 50 | 0 | 20 | 3.5 | 1.682 | 0.0010 | / | Pass | |
| | | | | | 3.87 | -0.093 | -0.0001 | / | Pass | |
| | | | | | 4.45 | -2.155 | -0.0013 | / | Pass | |
| | | | | -30 | 3.87 | 1.376 | 0.0008 | / | Pass | |
| | | | | | -20 | 3.87 | -0.706 | -0.0004 | / | Pass |
| | | | | | | -10 | 3.87 | -2.196 | -0.0013 | / |
| | | | | 0 | 3.87 | -2.431 | -0.0014 | / | Pass | |
| | | | | 10 | 3.87 | 0.686 | 0.0004 | / | Pass | |



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| | | | | | | | | | | | | | | | | |
|--------|-------|--------|--------|--------|--------|---------|---------|---------|-------|--------|--------|------|--------|---------|---|------|
| | | | | 30 | 3.87 | -3.299 | -0.0019 | / | Pass | | | | | | | |
| | | | | 40 | 3.87 | 3.748 | 0.0022 | / | Pass | | | | | | | |
| | | | | 50 | 3.87 | -0.588 | -0.0003 | / | Pass | | | | | | | |
| 1732.5 | 50 | 0 | | 20 | 3.5 | 2.024 | 0.0012 | / | Pass | | | | | | | |
| | | | | | 3.87 | 1.613 | 0.0009 | / | Pass | | | | | | | |
| | | | | | 4.45 | 3.174 | 0.0018 | / | Pass | | | | | | | |
| | | | | | -30 | 3.87 | 5.929 | 0.0034 | / | Pass | | | | | | |
| | | | | | | | | | | | -20 | 3.87 | 2.407 | 0.0014 | / | Pass |
| | | | | | | | | | | | | 3.87 | 4.317 | 0.0025 | / | Pass |
| | | | | 0 | 3.87 | 1.489 | 0.0009 | / | Pass | | | | | | | |
| | | | | | 10 | 3.87 | 5.668 | 0.0033 | / | Pass | | | | | | |
| | | | | 30 | 3.87 | 4.010 | 0.0023 | / | Pass | | | | | | | |
| | | | | | 40 | 3.87 | 5.936 | 0.0034 | / | Pass | | | | | | |
| | | | | 50 | 3.87 | 0.772 | 0.0004 | / | Pass | | | | | | | |
| | | | | 1750 | 50 | 0 | | 20 | 3.5 | 2.173 | 0.0012 | / | Pass | | | |
| 3.87 | 1.294 | 0.0007 | / | | | | | | Pass | | | | | | | |
| 4.45 | 0.133 | 0.0001 | / | | | | | | Pass | | | | | | | |
| | -30 | 3.87 | 1.975 | | | | | 0.0011 | / | Pass | | | | | | |
| | | | | | | | | | | | -20 | 3.87 | -0.969 | -0.0006 | / | Pass |
| | | | | | | | | | | | | 3.87 | 3.250 | 0.0019 | / | Pass |
| 0 | 3.87 | 4.530 | 0.0026 | | | | | / | Pass | | | | | | | |
| | 10 | 3.87 | 5.688 | | | | | 0.0033 | / | Pass | | | | | | |
| 30 | 3.87 | 5.361 | 0.0031 | | | | | / | Pass | | | | | | | |
| | 40 | 3.87 | 6.145 | | | | | 0.0035 | / | Pass | | | | | | |
| 50 | 3.87 | 0.817 | 0.0005 | | | | | / | Pass | | | | | | | |
| 64QAM | 1715 | 50 | 0 | | | | | 20 | 3.5 | 1.945 | 0.0011 | / | Pass | | | |
| | | | | 3.87 | -0.806 | -0.0005 | / | | Pass | | | | | | | |
| | | | | 4.45 | 0.139 | 0.0001 | / | | Pass | | | | | | | |
| | | | | | -30 | 3.87 | -0.520 | -0.0003 | / | Pass | | | | | | |
| | | | | | | | | | | | -20 | 3.87 | 0.570 | 0.0003 | / | Pass |
| | | | | | | | | | | | | 3.87 | 4.012 | 0.0023 | / | Pass |
| | | | | 0 | 3.87 | -0.719 | -0.0004 | / | Pass | | | | | | | |
| | | | | | 10 | 3.87 | 0.902 | 0.0005 | / | Pass | | | | | | |
| | | | | 30 | 3.87 | 3.093 | 0.0018 | / | Pass | | | | | | | |
| | | | | | 40 | 3.87 | 3.326 | 0.0019 | / | Pass | | | | | | |
| | | | | 50 | 3.87 | 5.401 | 0.0031 | / | Pass | | | | | | | |
| | | | | 1732.5 | 50 | 0 | | 20 | 3.5 | 4.084 | 0.0024 | / | Pass | | | |
| 3.87 | 5.408 | 0.0031 | / | | | | | | Pass | | | | | | | |
| 4.45 | 5.665 | 0.0033 | / | | | | | | Pass | | | | | | | |
| | -30 | 3.87 | 4.100 | | | | | 0.0024 | / | Pass | | | | | | |
| | | | | | | | | | | | -20 | 3.87 | 3.352 | 0.0019 | / | Pass |
| | | | | | | | | | | | | 3.87 | 3.004 | 0.0017 | / | Pass |
| 0 | 3.87 | 3.592 | 0.0021 | | | | | / | Pass | | | | | | | |
| | 10 | 3.87 | 4.990 | | | | | 0.0029 | / | Pass | | | | | | |
| 30 | 3.87 | 3.609 | 0.0021 | | | | | / | Pass | | | | | | | |
| | 40 | 3.87 | 5.162 | | | | | 0.0030 | / | Pass | | | | | | |
| 50 | 3.87 | 3.570 | 0.0021 | | | | | / | Pass | | | | | | | |
| 1750 | 50 | 0 | 20 | | | | | 3.5 | 2.188 | 0.0013 | / | Pass | | | | |
| | | | | 3.87 | 3.527 | 0.0020 | / | Pass | | | | | | | | |



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| | | | | | | | | |
|--|--|--|-----|------|-------|--------|---|------|
| | | | | 4.45 | 2.325 | 0.0013 | / | Pass |
| | | | -30 | 3.87 | 1.478 | 0.0008 | / | Pass |
| | | | -20 | 3.87 | 4.866 | 0.0028 | / | Pass |
| | | | -10 | 3.87 | 0.527 | 0.0003 | / | Pass |
| | | | 0 | 3.87 | 2.034 | 0.0012 | / | Pass |
| | | | 10 | 3.87 | 1.994 | 0.0011 | / | Pass |
| | | | 30 | 3.87 | 4.445 | 0.0025 | / | Pass |
| | | | 40 | 3.87 | 3.021 | 0.0017 | / | Pass |
| | | | 50 | 3.87 | 3.125 | 0.0018 | / | Pass |



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2.5 B4_15MHz

2.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz | | | | | | | | | | |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|--------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1717.5 | 75 | 0 | 20 | 3.5 | -0.324 | -0.0002 | / | Pass | |
| | | | | | 3.87 | 2.676 | 0.0016 | / | Pass | |
| | | | | | 4.45 | 0.425 | 0.0002 | / | Pass | |
| | | | | -30 | 3.87 | 0.844 | 0.0005 | / | Pass | |
| | | | | | -20 | 3.87 | 2.318 | 0.0013 | / | Pass |
| | | | | | | -10 | 3.87 | 0.621 | 0.0004 | / |
| | | | | 0 | 3.87 | 3.809 | 0.0022 | / | Pass | |
| | | | | 10 | 3.87 | 3.602 | 0.0021 | / | Pass | |
| | | | | 30 | 3.87 | 1.790 | 0.0010 | / | Pass | |
| | | | | 40 | 3.87 | 1.921 | 0.0011 | / | Pass | |
| | 50 | 3.87 | 2.259 | 0.0013 | / | Pass | | | | |
| | 1732.5 | 75 | 0 | 20 | 3.5 | -0.562 | -0.0003 | / | Pass | |
| | | | | | 3.87 | 2.142 | 0.0012 | / | Pass | |
| | | | | | 4.45 | 2.515 | 0.0015 | / | Pass | |
| | | | | -30 | 3.87 | 2.879 | 0.0017 | / | Pass | |
| | | | | | -20 | 3.87 | 4.722 | 0.0027 | / | Pass |
| | | | | | | -10 | 3.87 | -1.180 | -0.0007 | / |
| | | | | 0 | 3.87 | 3.394 | 0.0020 | / | Pass | |
| | | | | 10 | 3.87 | 2.135 | 0.0012 | / | Pass | |
| | | | | 30 | 3.87 | 3.930 | 0.0023 | / | Pass | |
| | | | | 40 | 3.87 | 3.412 | 0.0020 | / | Pass | |
| | 50 | 3.87 | 1.518 | 0.0009 | / | Pass | | | | |
| | 1747.5 | 75 | 0 | 20 | 3.5 | 1.012 | 0.0006 | / | Pass | |
| | | | | | 3.87 | 5.865 | 0.0034 | / | Pass | |
| | | | | | 4.45 | 2.624 | 0.0015 | / | Pass | |
| | | | | -30 | 3.87 | 2.684 | 0.0015 | / | Pass | |
| | | | | | -20 | 3.87 | 3.610 | 0.0021 | / | Pass |
| | | | | | | -10 | 3.87 | 2.266 | 0.0013 | / |
| | | | | 0 | 3.87 | 3.255 | 0.0019 | / | Pass | |
| | | | | 10 | 3.87 | 1.448 | 0.0008 | / | Pass | |
| 30 | | | | 3.87 | 2.261 | 0.0013 | / | Pass | | |
| 40 | | | | 3.87 | 3.331 | 0.0019 | / | Pass | | |
| 50 | 3.87 | 3.280 | 0.0019 | / | Pass | | | | | |
| 16QAM | 1717.5 | 75 | 0 | 20 | 3.5 | 1.493 | 0.0009 | / | Pass | |
| | | | | | 3.87 | 2.134 | 0.0012 | / | Pass | |
| | | | | | 4.45 | 1.855 | 0.0011 | / | Pass | |
| | | | | -30 | 3.87 | -1.033 | -0.0006 | / | Pass | |
| | | | | | -20 | 3.87 | 4.079 | 0.0024 | / | Pass |
| | | | | | | -10 | 3.87 | 2.906 | 0.0017 | / |
| | | | | 0 | 3.87 | -0.501 | -0.0003 | / | Pass | |
| | | | | 10 | 3.87 | 1.817 | 0.0011 | / | Pass | |



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| | | | | | | | | | | |
|--------|--------|---------|--------|--------|--------|---------|---------|--------|------|--------|
| | | | | 30 | 3.87 | 1.872 | 0.0011 | / | Pass | |
| | | | | 40 | 3.87 | -0.188 | -0.0001 | / | Pass | |
| | | | | 50 | 3.87 | 1.709 | 0.0010 | / | Pass | |
| 1732.5 | 75 | 0 | | 20 | 3.5 | 3.762 | 0.0022 | / | Pass | |
| | | | | | 3.87 | 3.104 | 0.0018 | / | Pass | |
| | | | | | 4.45 | 5.557 | 0.0032 | / | Pass | |
| | | | | -30 | 3.87 | -0.970 | -0.0006 | / | Pass | |
| | | | | -20 | 3.87 | 1.587 | 0.0009 | / | Pass | |
| | | | | -10 | 3.87 | 1.868 | 0.0011 | / | Pass | |
| | | | | 0 | 3.87 | 1.126 | 0.0006 | / | Pass | |
| | | | | 10 | 3.87 | 3.602 | 0.0021 | / | Pass | |
| | | | | 30 | 3.87 | 1.309 | 0.0008 | / | Pass | |
| | | | | 40 | 3.87 | 1.187 | 0.0007 | / | Pass | |
| | | | | 50 | 3.87 | 0.893 | 0.0005 | / | Pass | |
| | | | | 1747.5 | 75 | 0 | | 20 | 3.5 | 2.901 |
| 3.87 | -0.106 | -0.0001 | / | | | | | | Pass | |
| 4.45 | 3.905 | 0.0022 | / | | | | | | Pass | |
| -30 | 3.87 | 2.845 | 0.0016 | | | | | / | Pass | |
| -20 | 3.87 | 3.001 | 0.0017 | | | | | / | Pass | |
| -10 | 3.87 | 4.703 | 0.0027 | | | | | / | Pass | |
| 0 | 3.87 | 3.946 | 0.0023 | | | | | / | Pass | |
| 10 | 3.87 | 1.316 | 0.0008 | | | | | / | Pass | |
| 30 | 3.87 | 0.545 | 0.0003 | | | | | / | Pass | |
| 40 | 3.87 | 2.955 | 0.0017 | | | | | / | Pass | |
| 50 | 3.87 | 4.395 | 0.0025 | | | | | / | Pass | |
| 64QAM | 1717.5 | 75 | 0 | | | | | 20 | 3.5 | -1.248 |
| | | | | 3.87 | 2.685 | 0.0016 | / | | Pass | |
| | | | | 4.45 | -1.259 | -0.0007 | / | | Pass | |
| | | | | -30 | 3.87 | 3.953 | 0.0023 | / | Pass | |
| | | | | -20 | 3.87 | -0.095 | -0.0001 | / | Pass | |
| | | | | -10 | 3.87 | -5.333 | -0.0031 | / | Pass | |
| | | | | 0 | 3.87 | 2.642 | 0.0015 | / | Pass | |
| | | | | 10 | 3.87 | 1.710 | 0.0010 | / | Pass | |
| | | | | 30 | 3.87 | 2.806 | 0.0016 | / | Pass | |
| | | | | 40 | 3.87 | -0.755 | -0.0004 | / | Pass | |
| | | | | 50 | 3.87 | 1.952 | 0.0011 | / | Pass | |
| | | | | 1732.5 | 75 | 0 | | 20 | 3.5 | 2.209 |
| | 3.87 | 3.280 | 0.0019 | | | | | | / | Pass |
| | 4.45 | 2.821 | 0.0016 | | | | | | / | Pass |
| | -30 | 3.87 | 0.769 | | | | | 0.0004 | / | Pass |
| | -20 | 3.87 | 3.116 | | | | | 0.0018 | / | Pass |
| | -10 | 3.87 | 3.313 | | | | | 0.0019 | / | Pass |
| | 0 | 3.87 | 0.994 | | | | | 0.0006 | / | Pass |
| | 10 | 3.87 | 3.250 | | | | | 0.0019 | / | Pass |
| | 30 | 3.87 | 5.360 | | | | | 0.0031 | / | Pass |
| | 40 | 3.87 | 4.746 | | | | | 0.0027 | / | Pass |
| | 50 | 3.87 | 4.221 | | | | | 0.0024 | / | Pass |
| | 1747.5 | 75 | 0 | | | | | 20 | 3.5 | 3.464 |
| | | | | 3.87 | 3.500 | 0.0020 | / | | Pass | |



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| | | | | | | | | |
|--|--|--|-----|------|--------|---------|---|------|
| | | | | 4.45 | 5.115 | 0.0029 | / | Pass |
| | | | -30 | 3.87 | 1.956 | 0.0011 | / | Pass |
| | | | -20 | 3.87 | 5.927 | 0.0034 | / | Pass |
| | | | -10 | 3.87 | 3.899 | 0.0022 | / | Pass |
| | | | 0 | 3.87 | -0.927 | -0.0005 | / | Pass |
| | | | 10 | 3.87 | 3.742 | 0.0021 | / | Pass |
| | | | 30 | 3.87 | 4.035 | 0.0023 | / | Pass |
| | | | 40 | 3.87 | 4.909 | 0.0028 | / | Pass |
| | | | 50 | 3.87 | 3.899 | 0.0022 | / | Pass |



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2.6 B4_20MHz

2.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz | | | | | | | | | | |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 1720 | 100 | 0 | 20 | 3.5 | -1.214 | -0.0007 | / | Pass | |
| | | | | | 3.87 | -1.390 | -0.0008 | / | Pass | |
| | | | | | 4.45 | -2.981 | -0.0017 | / | Pass | |
| | | | | -30 | 3.87 | -1.459 | -0.0008 | / | Pass | |
| | | | | | -20 | 3.87 | -5.105 | -0.0030 | / | Pass |
| | | | | | | 3.87 | -4.210 | -0.0024 | / | Pass |
| | | | | 0 | 3.87 | 0.695 | 0.0004 | / | Pass | |
| | | | | 10 | 3.87 | 0.839 | 0.0005 | / | Pass | |
| | | | | 30 | 3.87 | 1.077 | 0.0006 | / | Pass | |
| | | | | 40 | 3.87 | -2.100 | -0.0012 | / | Pass | |
| | 50 | 3.87 | -2.160 | -0.0013 | / | Pass | | | | |
| | 1732.5 | 100 | 0 | 20 | 3.5 | 2.802 | 0.0016 | / | Pass | |
| | | | | | 3.87 | 7.939 | 0.0046 | / | Pass | |
| | | | | | 4.45 | 9.464 | 0.0055 | / | Pass | |
| | | | | -30 | 3.87 | 4.600 | 0.0027 | / | Pass | |
| | | | | | -20 | 3.87 | 3.587 | 0.0021 | / | Pass |
| | | | | | | 3.87 | 0.837 | 0.0005 | / | Pass |
| | | | | 0 | 3.87 | 4.264 | 0.0025 | / | Pass | |
| | | | | 10 | 3.87 | 4.198 | 0.0024 | / | Pass | |
| | | | | 30 | 3.87 | 6.994 | 0.0040 | / | Pass | |
| | | | | 40 | 3.87 | 4.142 | 0.0024 | / | Pass | |
| | 50 | 3.87 | 2.478 | 0.0014 | / | Pass | | | | |
| | 1745 | 100 | 0 | 20 | 3.5 | 3.482 | 0.0020 | / | Pass | |
| | | | | | 3.87 | 3.326 | 0.0019 | / | Pass | |
| | | | | | 4.45 | -0.550 | -0.0003 | / | Pass | |
| | | | | -30 | 3.87 | 2.312 | 0.0013 | / | Pass | |
| | | | | | -20 | 3.87 | 3.136 | 0.0018 | / | Pass |
| | | | | | | 3.87 | 5.589 | 0.0032 | / | Pass |
| | | | | 0 | 3.87 | -1.706 | -0.0010 | / | Pass | |
| | | | | 10 | 3.87 | 1.629 | 0.0009 | / | Pass | |
| 30 | | | | 3.87 | 1.046 | 0.0006 | / | Pass | | |
| 40 | | | | 3.87 | 2.221 | 0.0013 | / | Pass | | |
| 50 | 3.87 | 2.221 | 0.0013 | / | Pass | | | | | |
| 16QAM | 1720 | 100 | 0 | 20 | 3.5 | -2.432 | -0.0014 | / | Pass | |
| | | | | | 3.87 | -5.178 | -0.0030 | / | Pass | |
| | | | | | 4.45 | -3.635 | -0.0021 | / | Pass | |
| | | | | -30 | 3.87 | -0.898 | -0.0005 | / | Pass | |
| | | | | | -20 | 3.87 | -0.551 | -0.0003 | / | Pass |
| | | | | | | 3.87 | -3.461 | -0.0020 | / | Pass |
| | | | | 0 | 3.87 | -0.470 | -0.0003 | / | Pass | |
| | | | | 10 | 3.87 | -1.539 | -0.0009 | / | Pass | |



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Table with 10 columns: Item, Value, Unit, Tolerance, Test Result 1, Test Result 2, Test Result 3, Test Result 4, Test Result 5, Status. Rows include items 1732.5, 1745, 1720, and 1732.5 with various test results and 'Pass' status.



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| | | | | | | | | |
|--|--|--|-----|------|--------|---------|---|------|
| | | | | 4.45 | 1.074 | 0.0006 | / | Pass |
| | | | -30 | 3.87 | 4.427 | 0.0025 | / | Pass |
| | | | -20 | 3.87 | 5.449 | 0.0031 | / | Pass |
| | | | -10 | 3.87 | 2.821 | 0.0016 | / | Pass |
| | | | 0 | 3.87 | 1.441 | 0.0008 | / | Pass |
| | | | 10 | 3.87 | -0.486 | -0.0003 | / | Pass |
| | | | 30 | 3.87 | 4.217 | 0.0024 | / | Pass |
| | | | 40 | 3.87 | 1.570 | 0.0009 | / | Pass |
| | | | 50 | 3.87 | 3.512 | 0.0020 | / | Pass |



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3. 99% & 26dB Bandwidth

3.1 Band4_OBW

3.1.1 Test Result

| Band: 4 / NTV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.119 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.108 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.107 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.103 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.110 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.121 | / | Pass |
| | 64QAM | 1710.7 | 6 | 0 | 1.120 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.111 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.115 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.736 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.753 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.734 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.737 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.735 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.729 | / | Pass |
| | 64QAM | 1711.5 | 15 | 0 | 2.740 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.726 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.732 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 4.570 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.547 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.551 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 4.549 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.573 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.563 | / | Pass |
| | 64QAM | 1712.5 | 25 | 0 | 4.546 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.559 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.545 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 9.046 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.062 | / | Pass |
| | | 1750 | 50 | 0 | 9.069 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 9.065 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.062 | / | Pass |
| | | 1750 | 50 | 0 | 9.078 | / | Pass |
| | 64QAM | 1715 | 50 | 0 | 9.068 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.075 | / | Pass |
| | | 1750 | 50 | 0 | 9.046 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 13.569 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.566 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.589 | / | Pass |



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Table with 8 columns: Modulation, Subcarrier, Bandwidth, Power Spectral Density, Power Spectral Density, Power Spectral Density, and Pass/Fail status. Rows include 16QAM, 64QAM, and QPSK for item 20.

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3.2 Band4_XDB

3.2.1 Test Result

| Band: 4 / NTV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.330 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.315 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.333 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.313 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.324 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.343 | / | Pass |
| | 64QAM | 1710.7 | 6 | 0 | 1.333 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.320 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.336 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 3.026 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.031 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.030 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 3.038 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.032 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.036 | / | Pass |
| | 64QAM | 1711.5 | 15 | 0 | 3.021 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.026 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.019 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 5.111 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.041 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.082 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 5.025 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.090 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.046 | / | Pass |
| | 64QAM | 1712.5 | 25 | 0 | 5.072 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.070 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.057 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 10.032 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.974 | / | Pass |
| | | 1750 | 50 | 0 | 9.961 | / | Pass |
| | 16QAM | 1715 | 50 | 0 | 10.039 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.948 | / | Pass |
| | | 1750 | 50 | 0 | 10.014 | / | Pass |
| | 64QAM | 1715 | 50 | 0 | 9.872 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.984 | / | Pass |
| | | 1750 | 50 | 0 | 9.897 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 14.882 | / | Pass |
| | | 1732.5 | 75 | 0 | 14.906 | / | Pass |
| | | 1747.5 | 75 | 0 | 14.997 | / | Pass |
| | 16QAM | 1717.5 | 75 | 0 | 14.987 | / | Pass |
| | | 1732.5 | 75 | 0 | 14.977 | / | Pass |



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Rev.: 01

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| | | | | | | | |
|----|-------|--------|-----|---|--------|---|------|
| | 64QAM | 1747.5 | 75 | 0 | 14.875 | / | Pass |
| | | 1717.5 | 75 | 0 | 14.841 | / | Pass |
| | | 1732.5 | 75 | 0 | 14.959 | / | Pass |
| | | 1747.5 | 75 | 0 | 14.970 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 19.878 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.808 | / | Pass |
| | | 1745 | 100 | 0 | 19.936 | / | Pass |
| | 16QAM | 1720 | 100 | 0 | 19.771 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.820 | / | Pass |
| | | 1745 | 100 | 0 | 19.677 | / | Pass |
| | 64QAM | 1720 | 100 | 0 | 19.754 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.850 | / | Pass |
| | | 1745 | 100 | 0 | 19.686 | / | Pass |



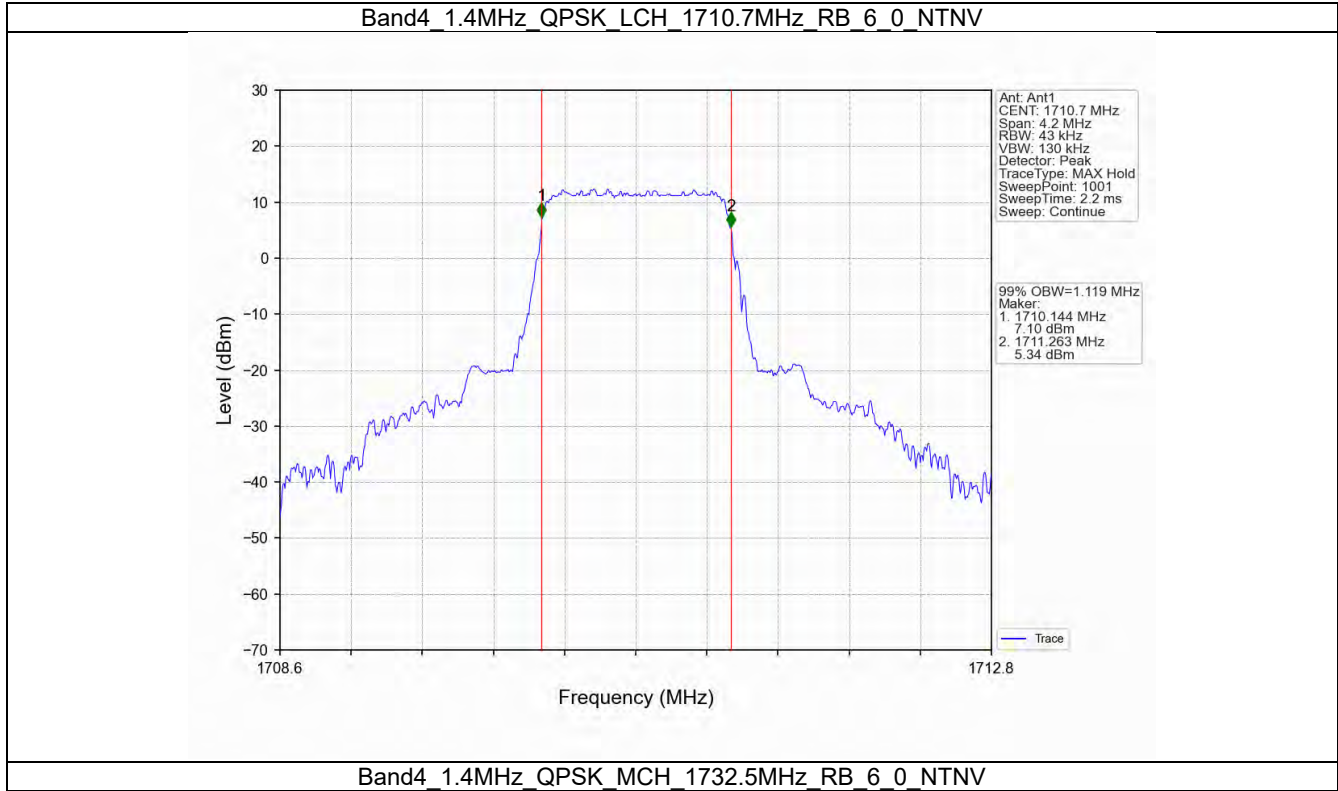
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3.1 Band4_OBW

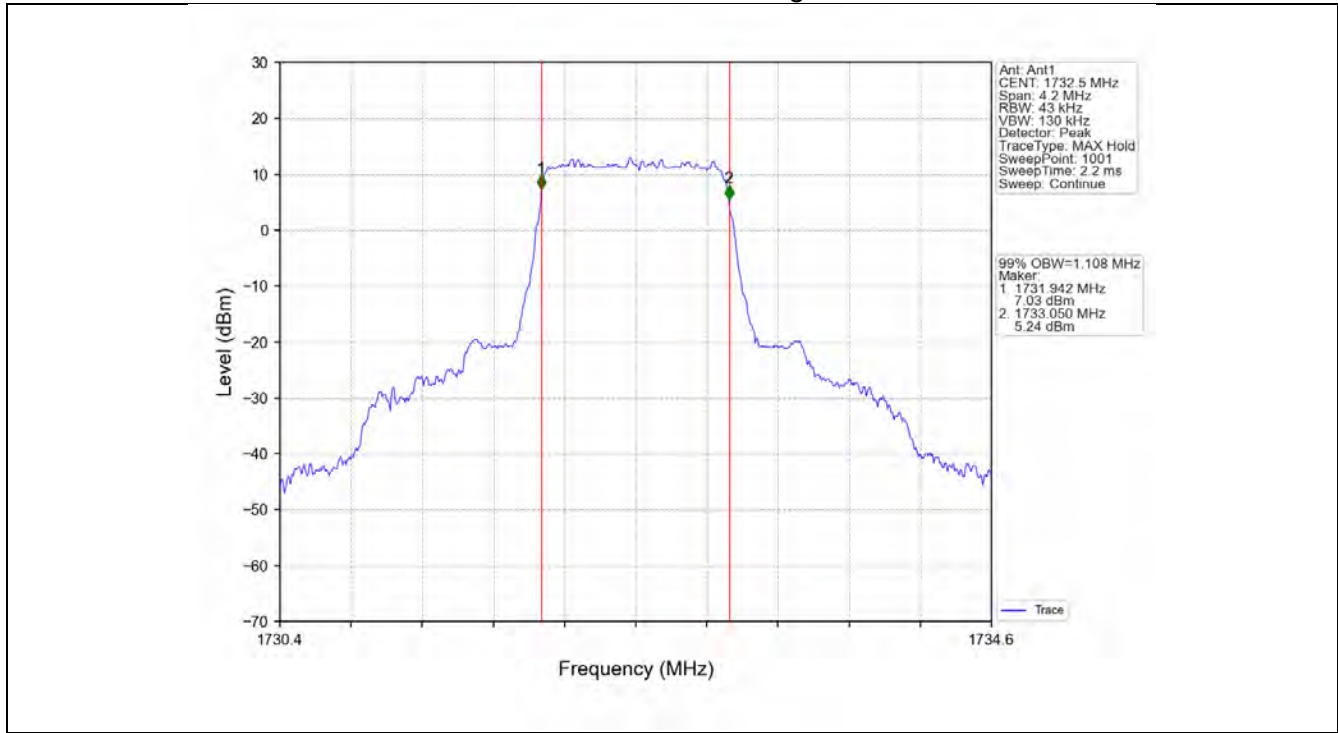
3.1.2 Test Graph



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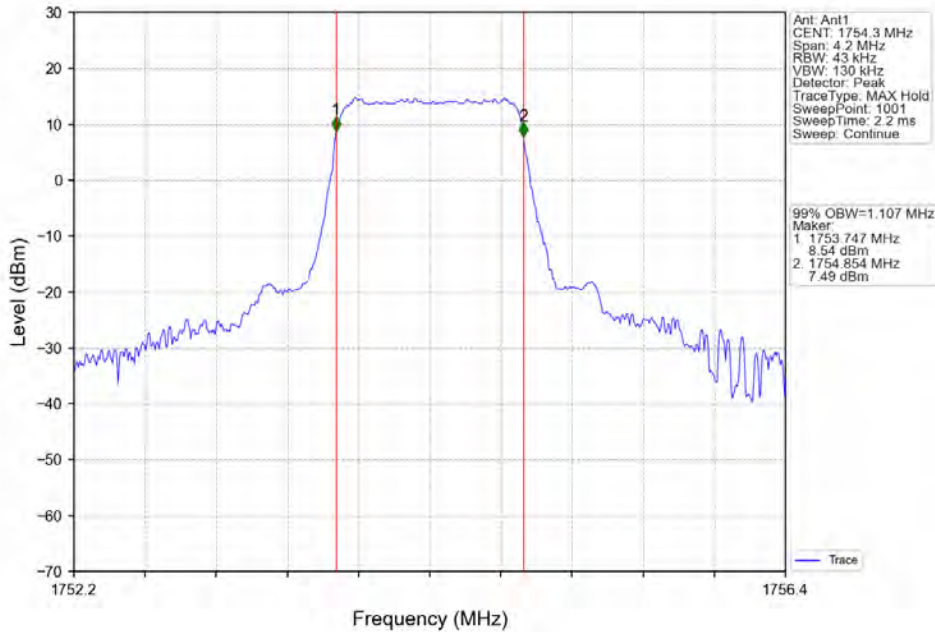


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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



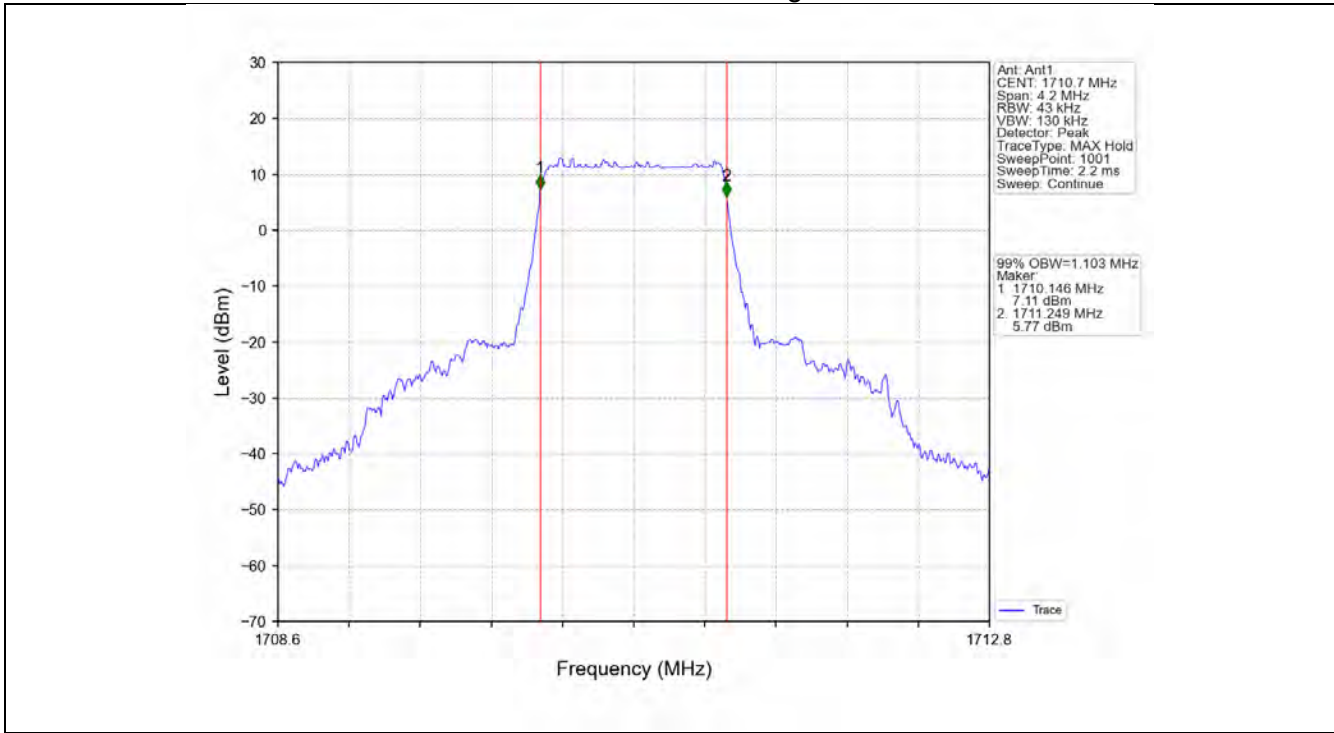
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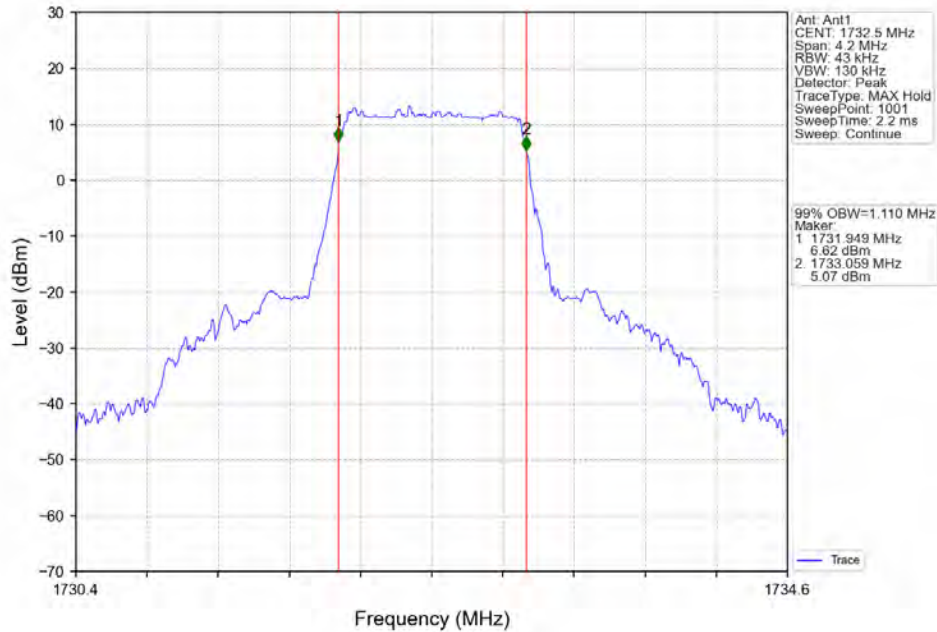


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Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



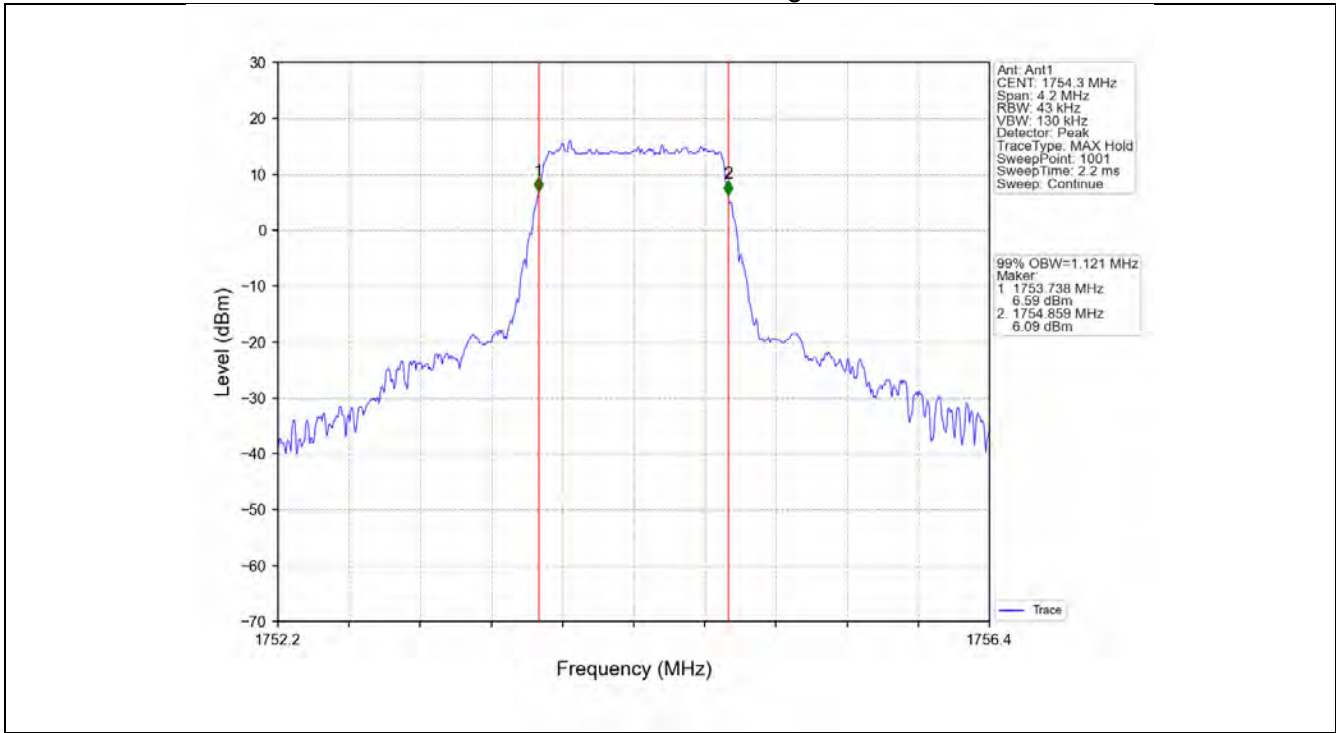
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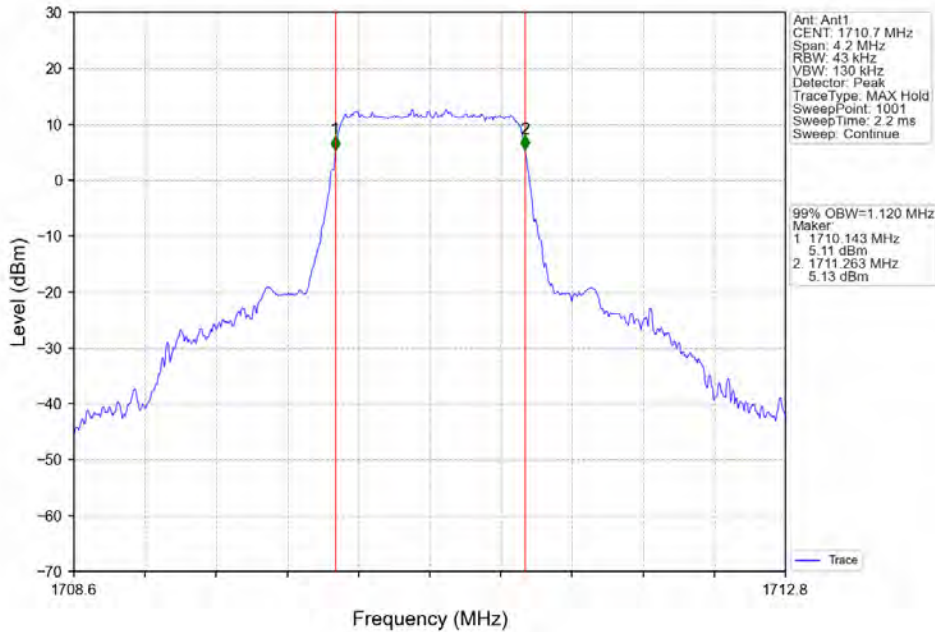


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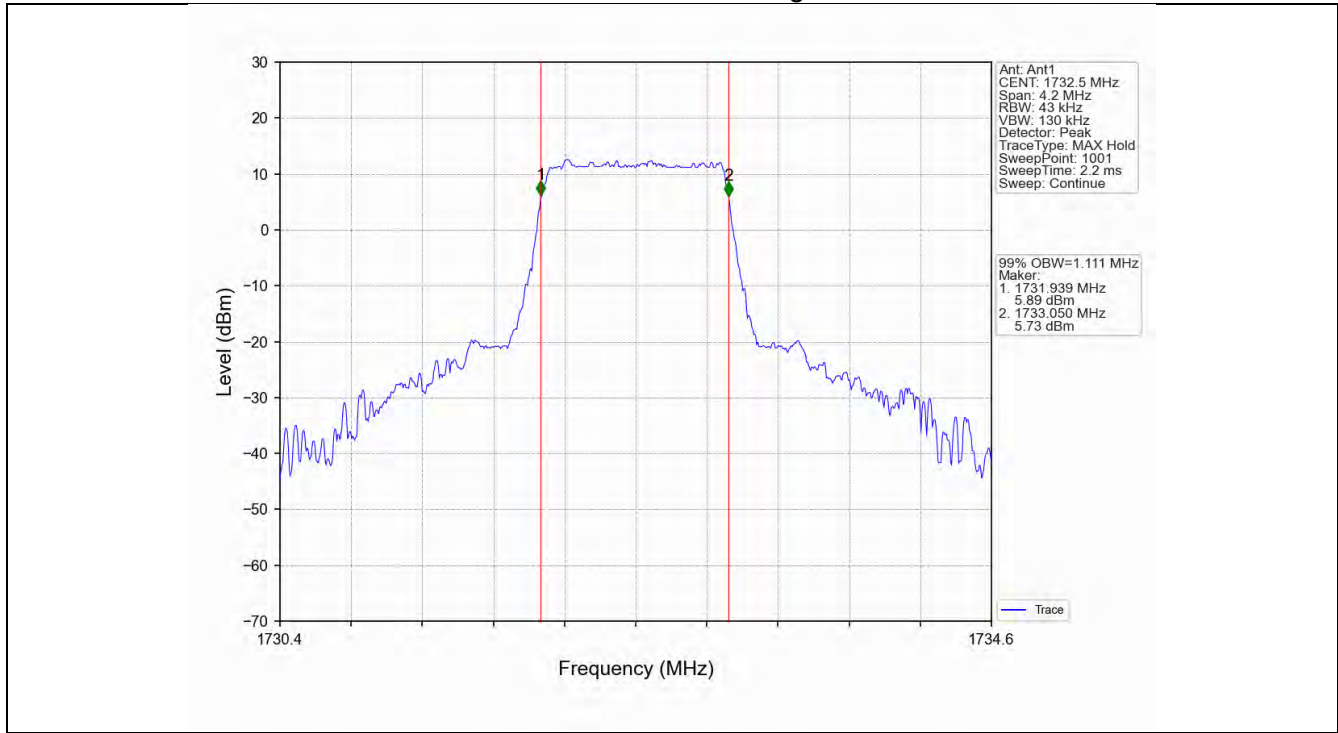


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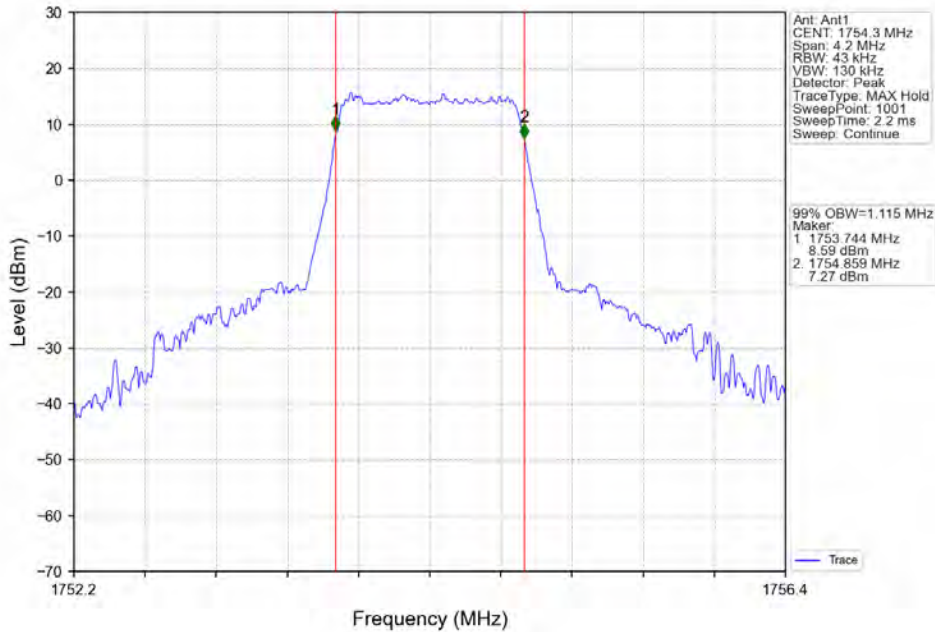


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Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN

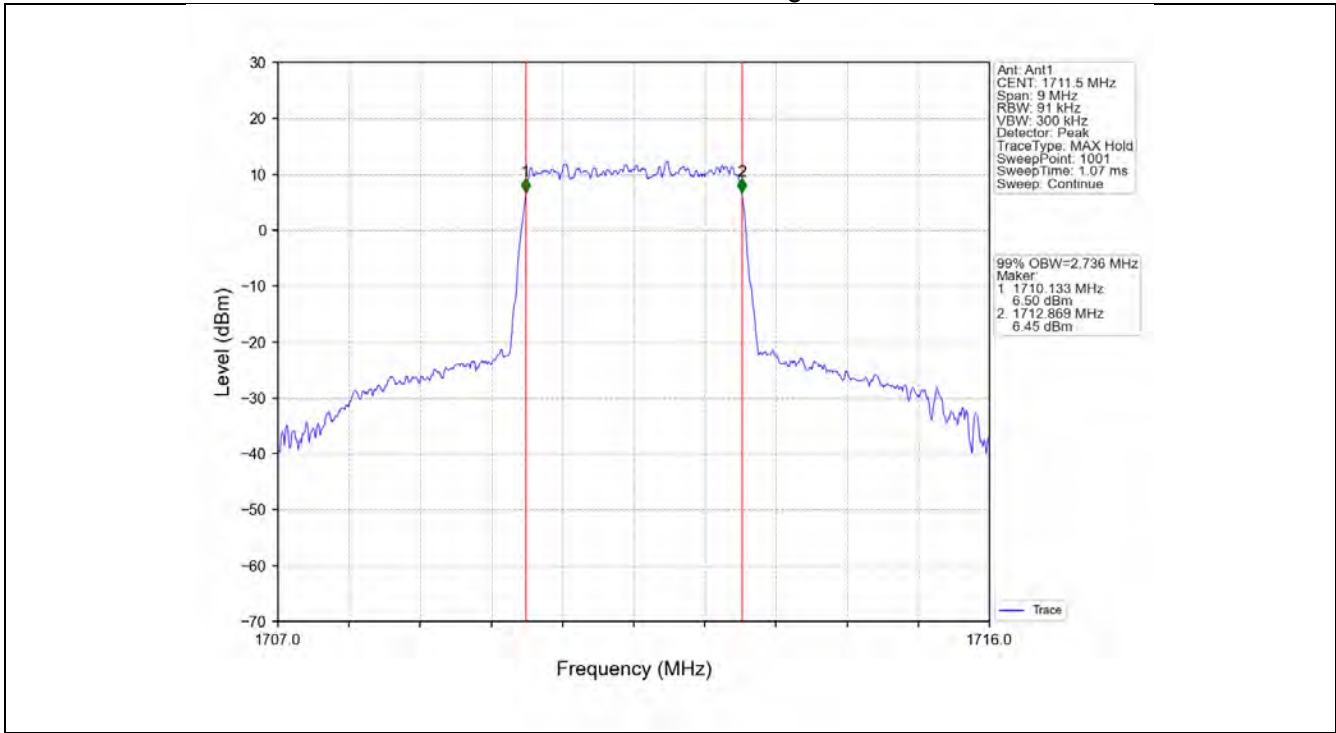


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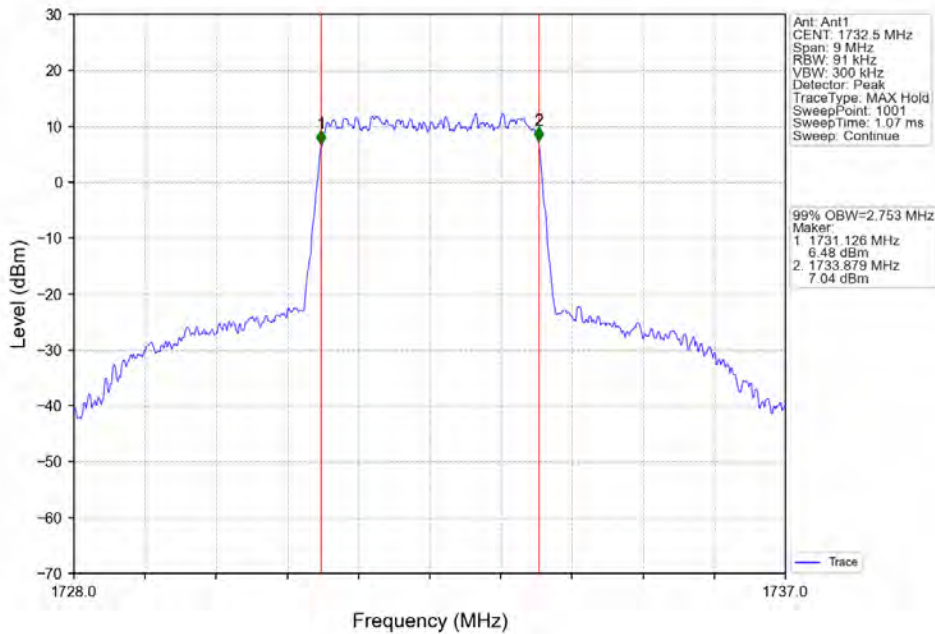


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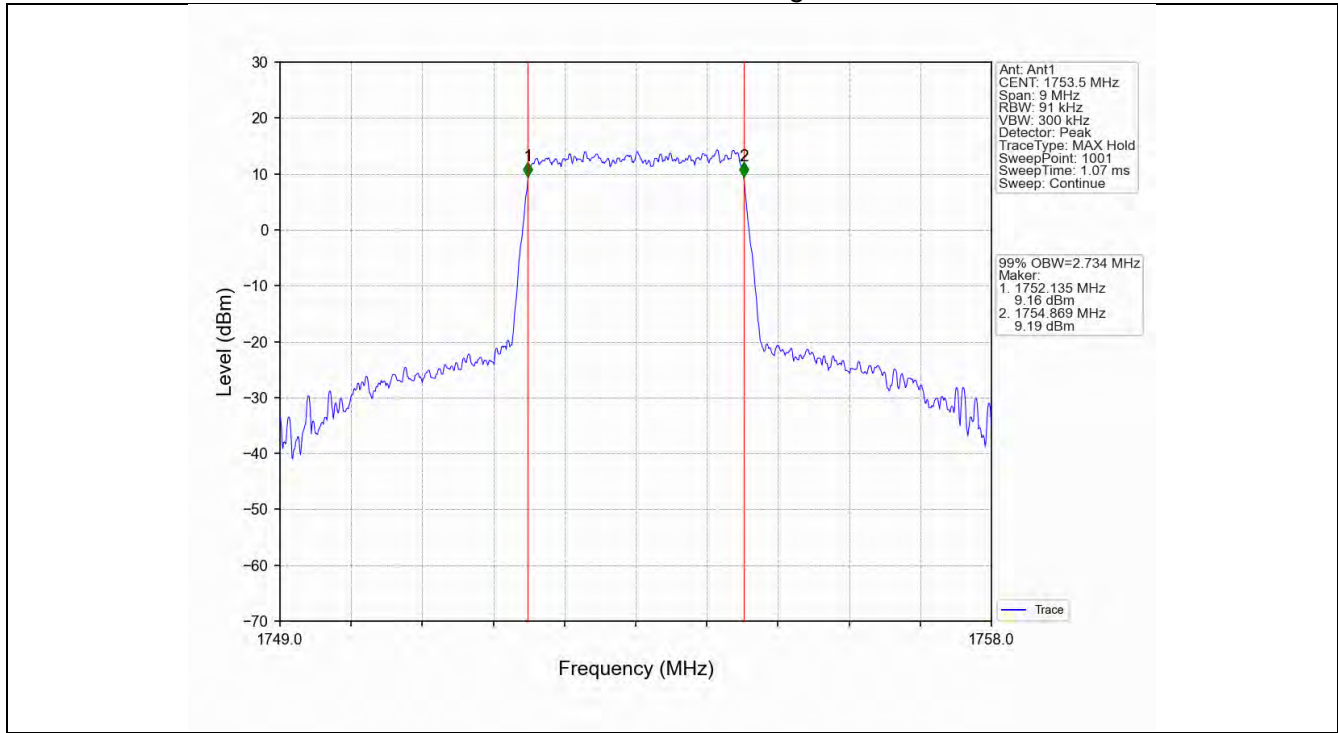
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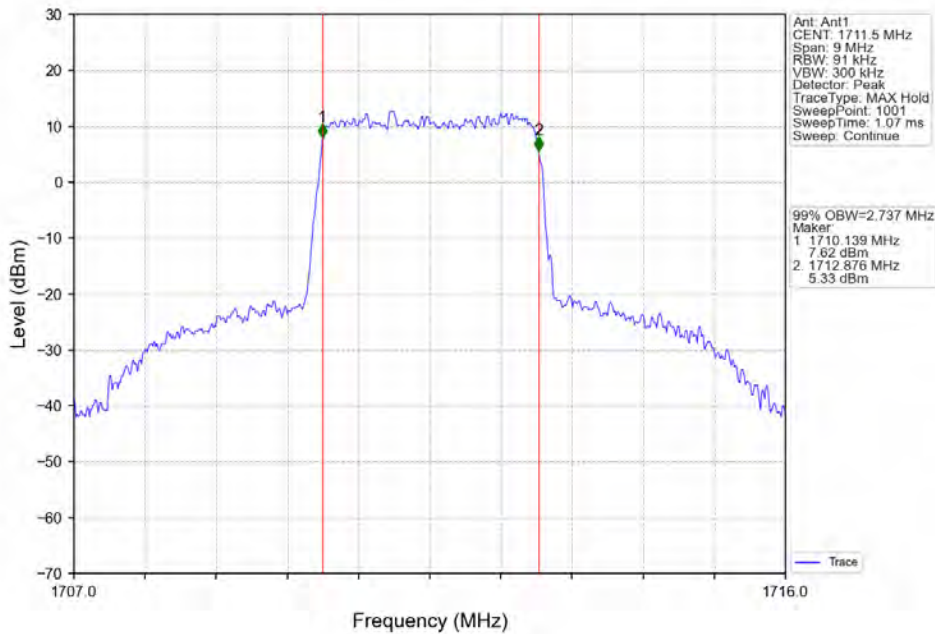


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

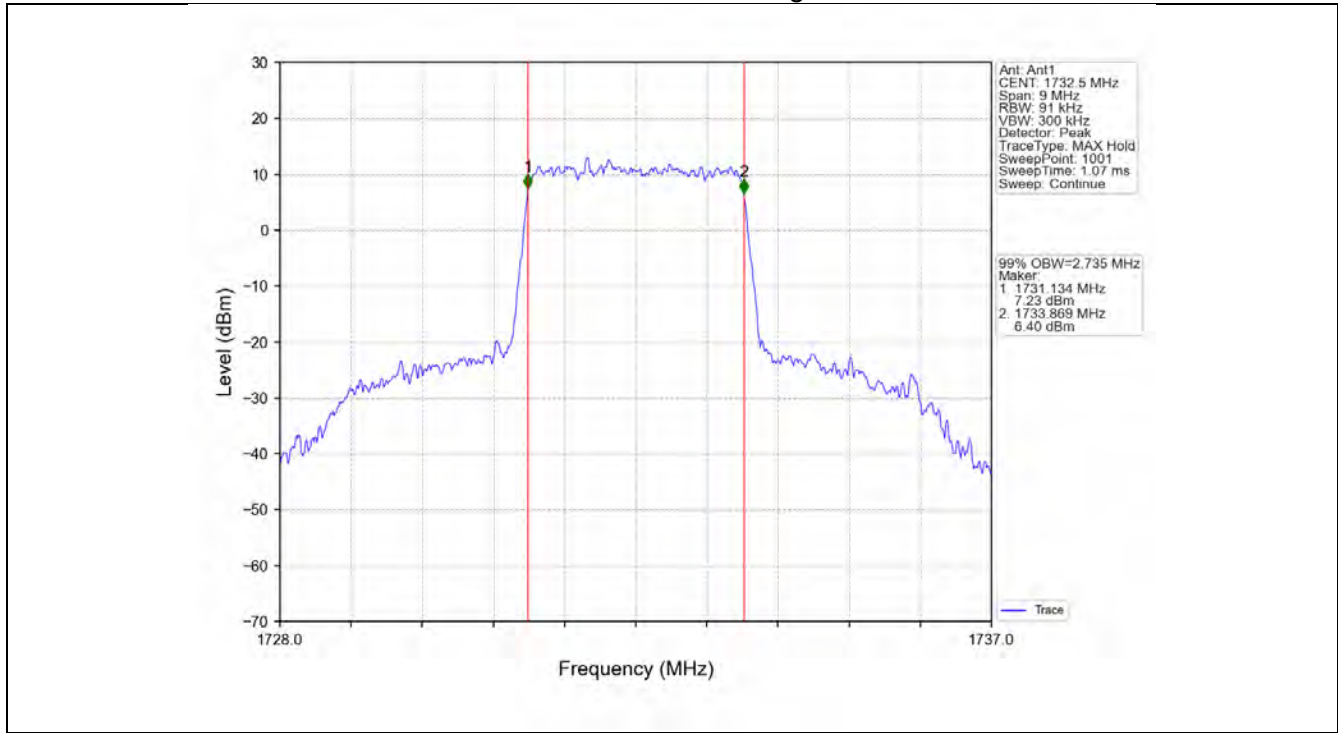


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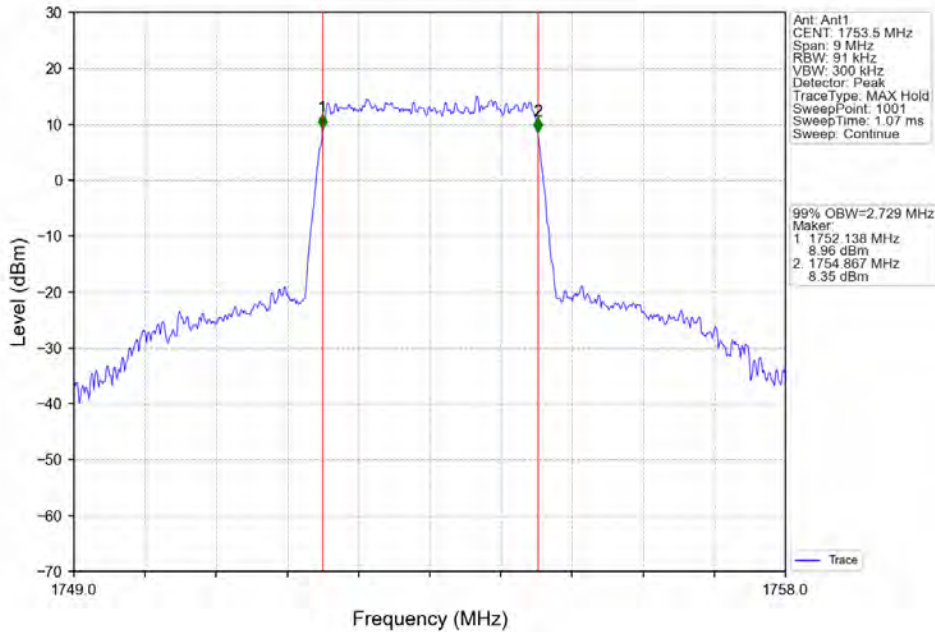


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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV

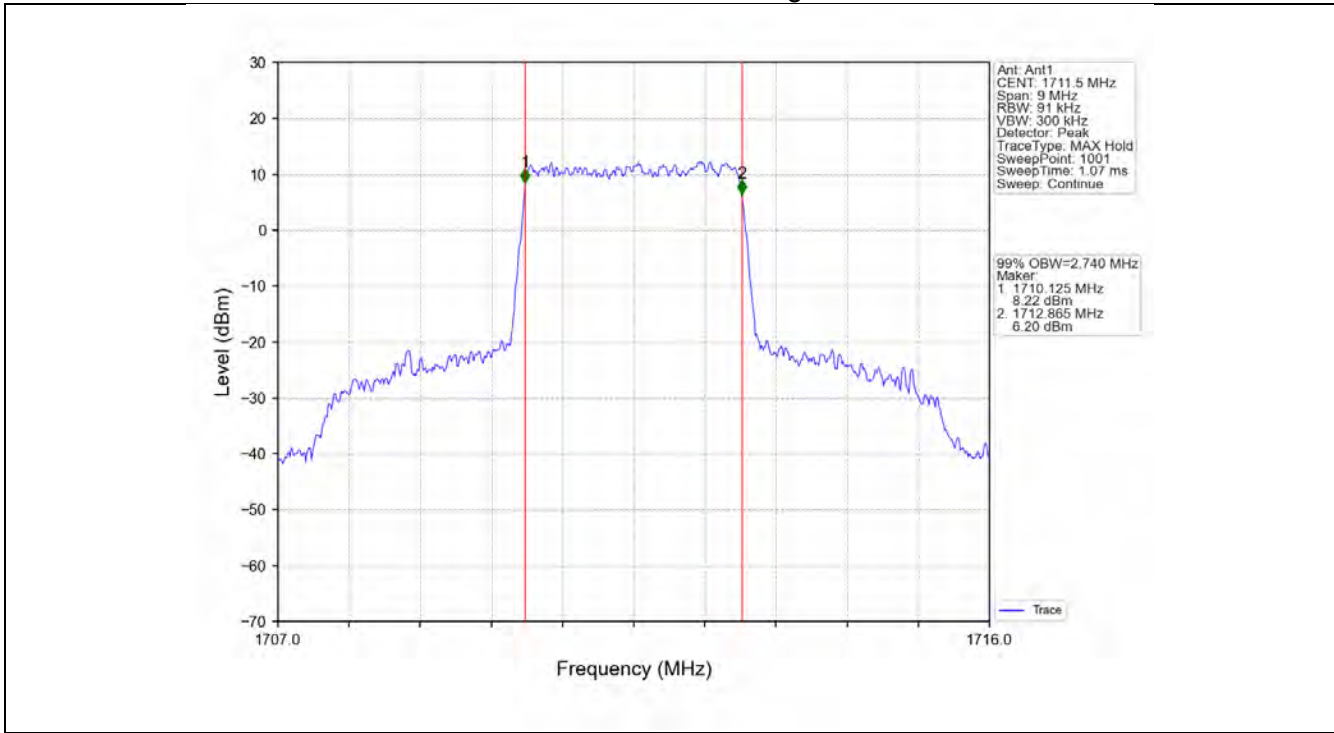


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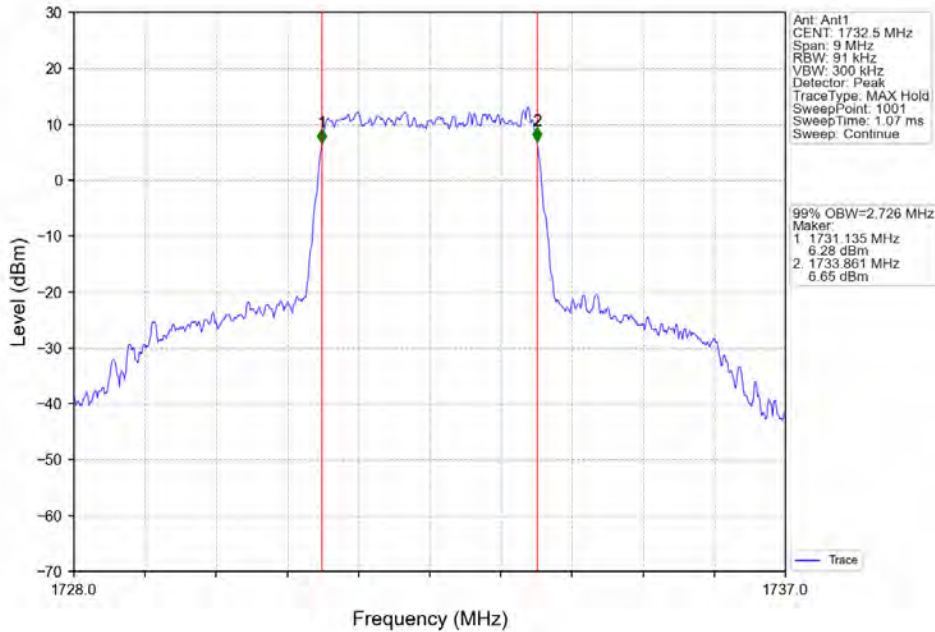


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Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV



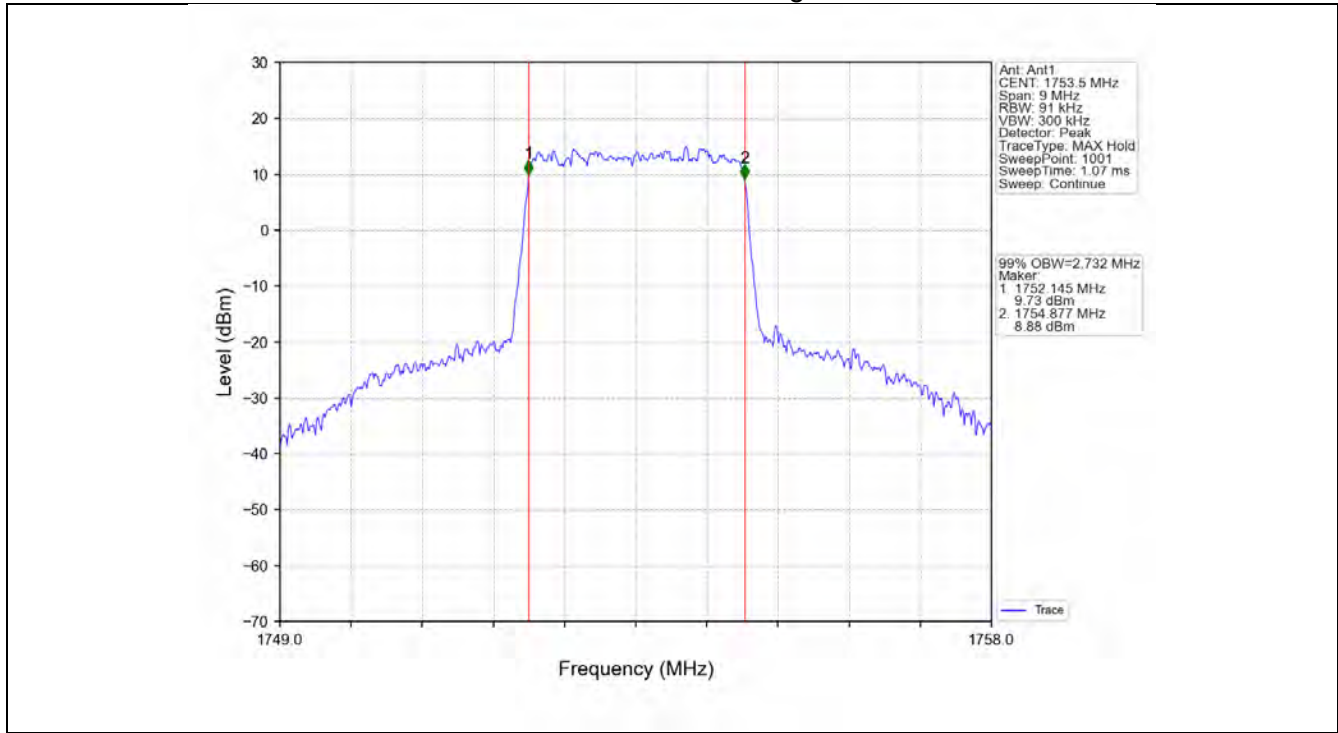
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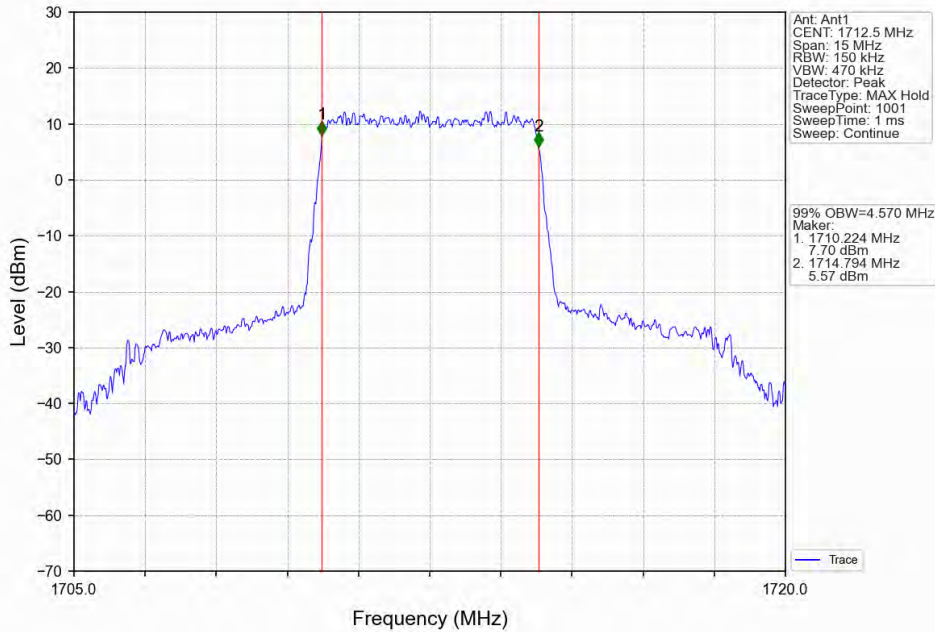


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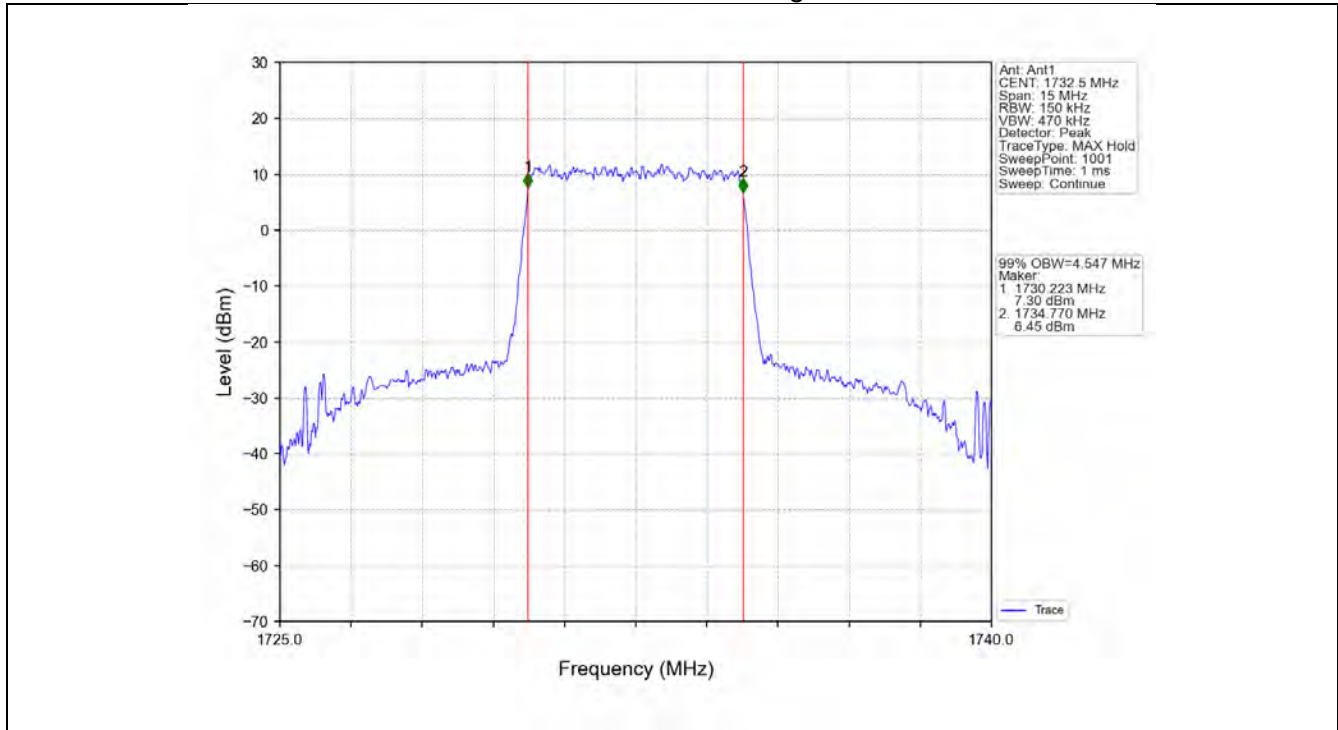
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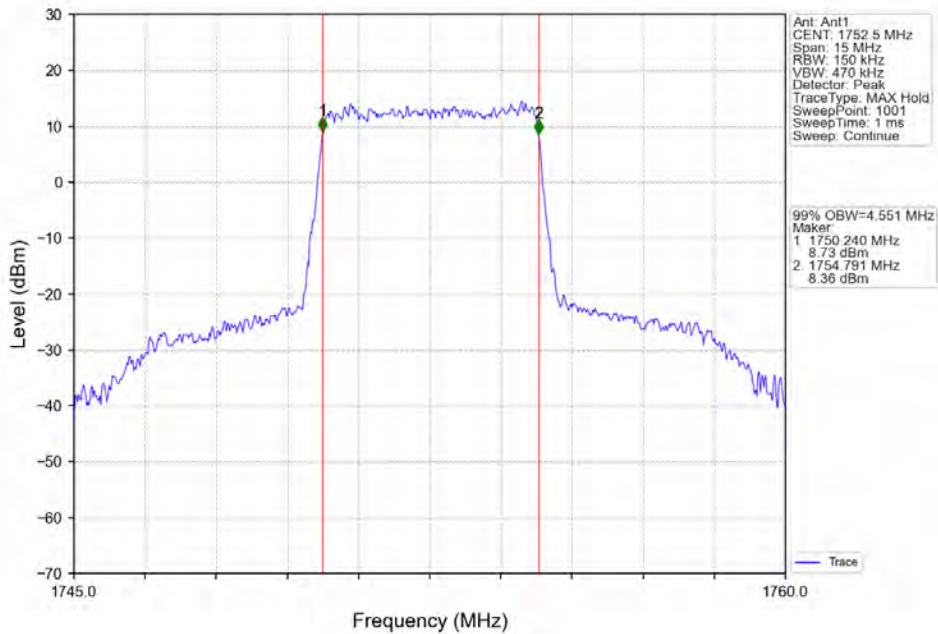
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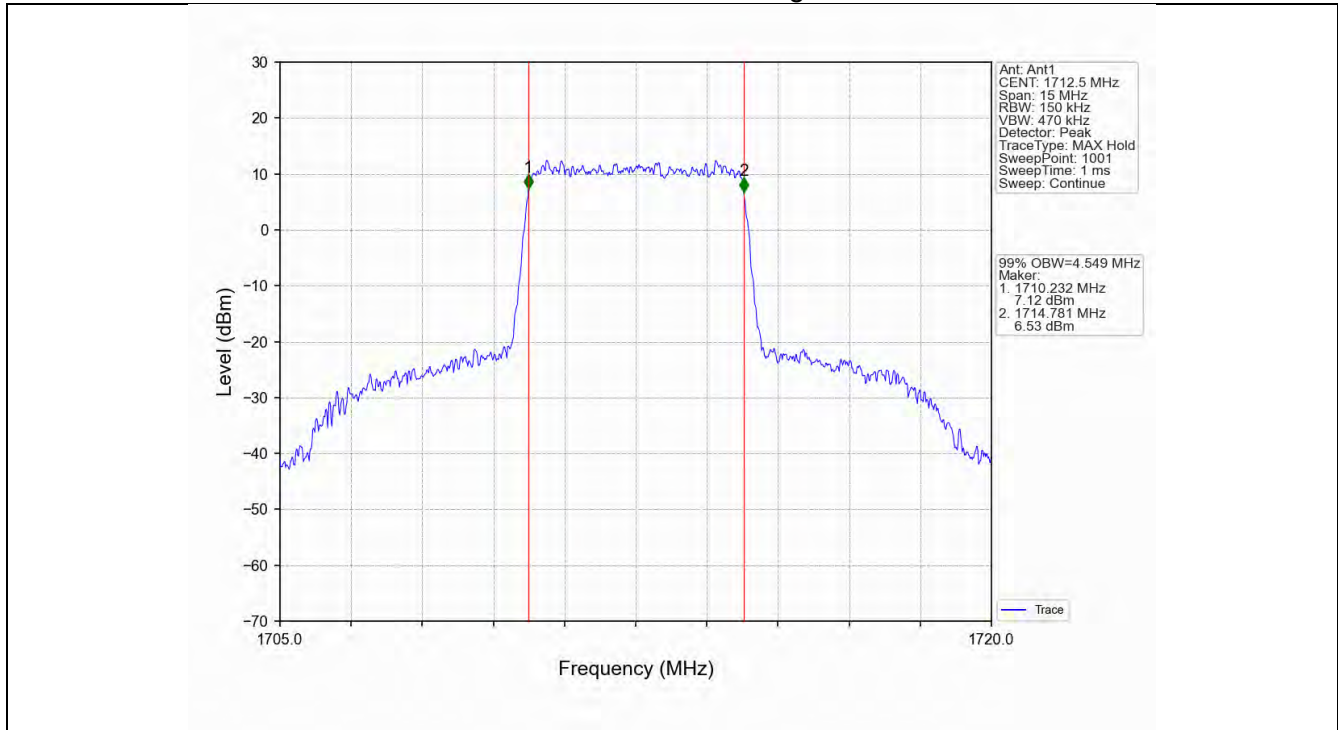
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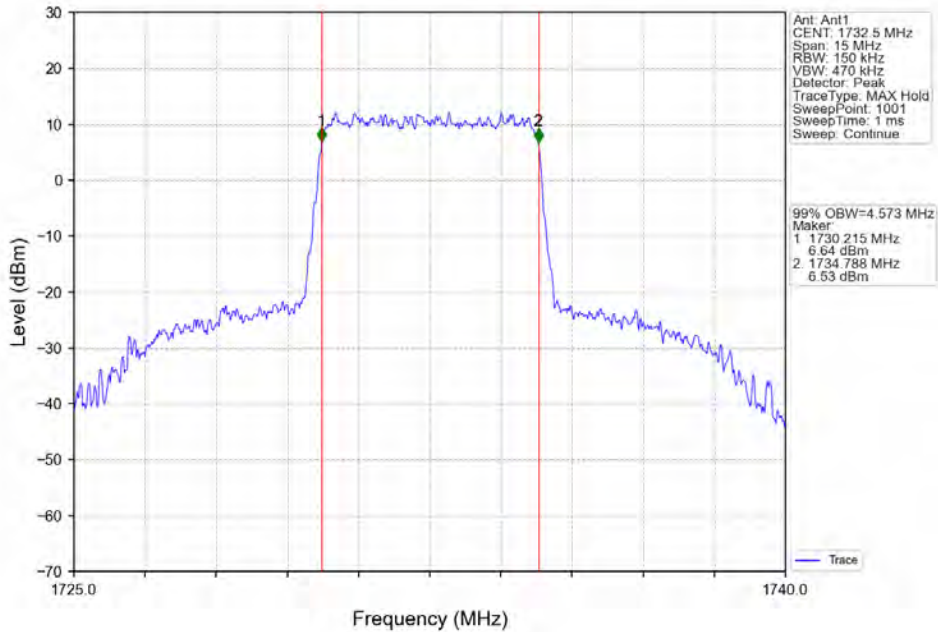


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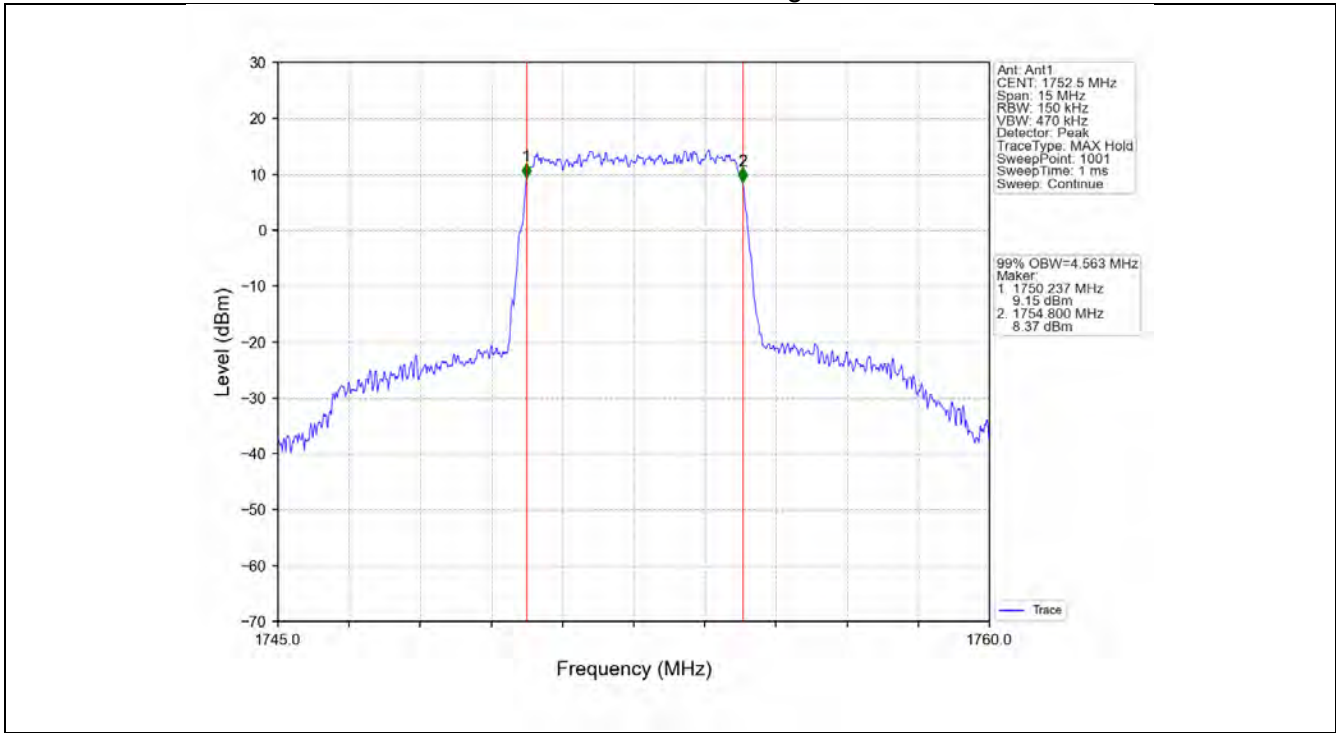
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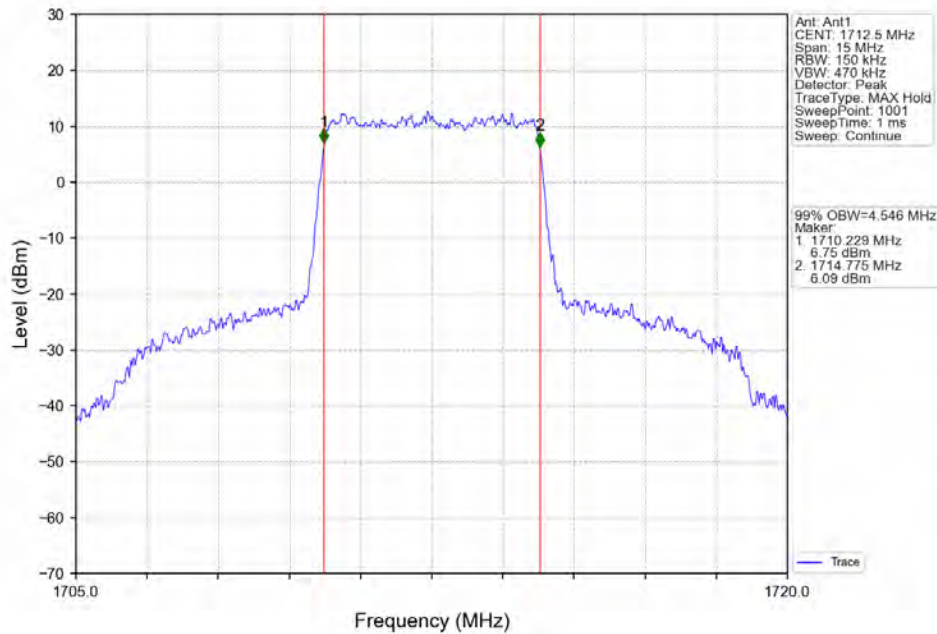


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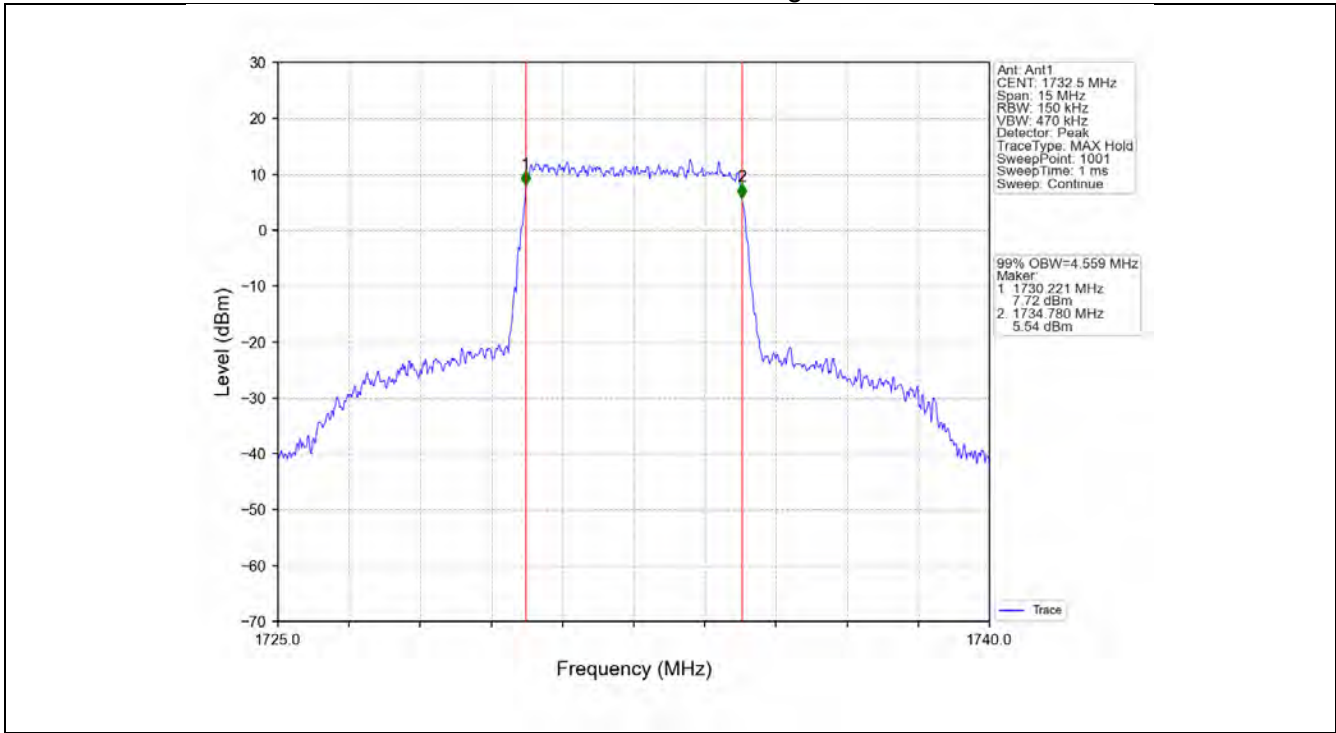


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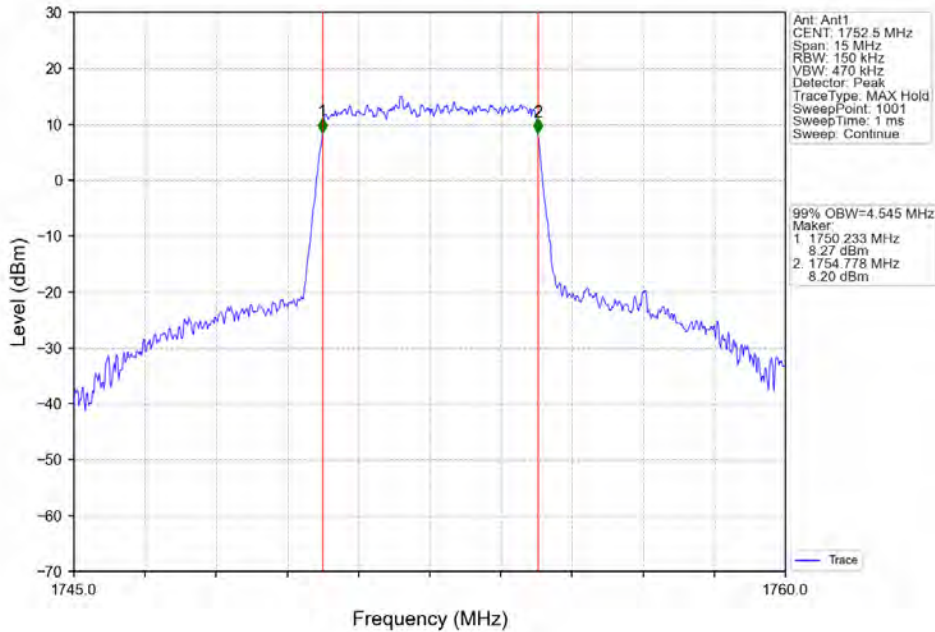


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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



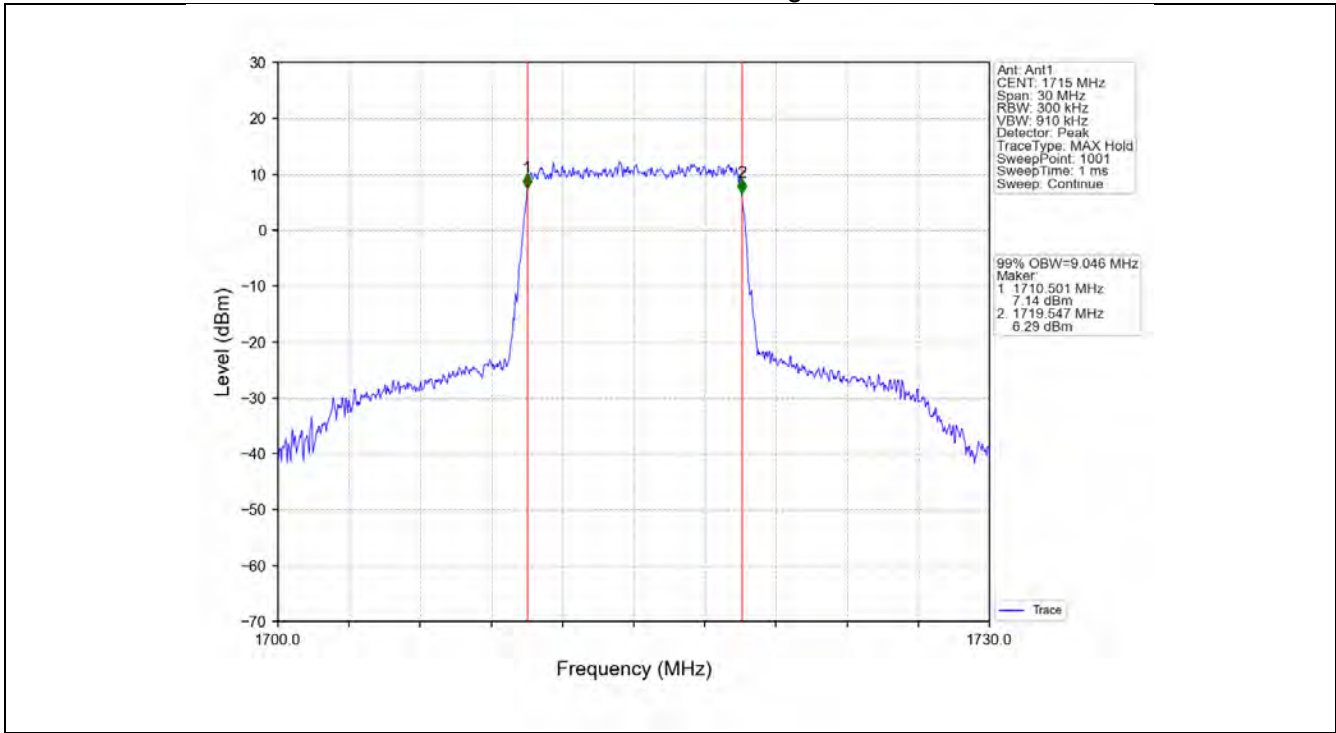
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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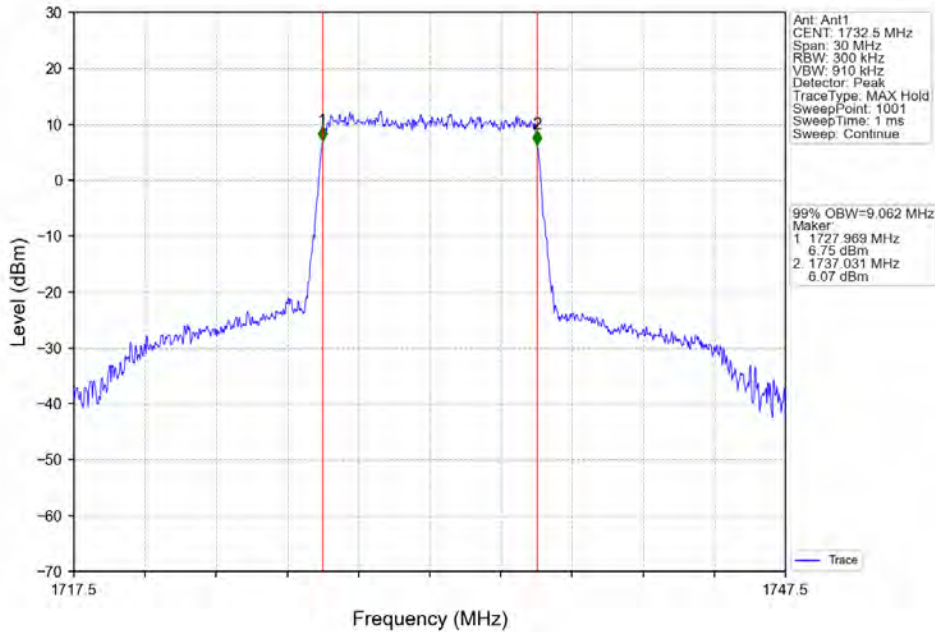


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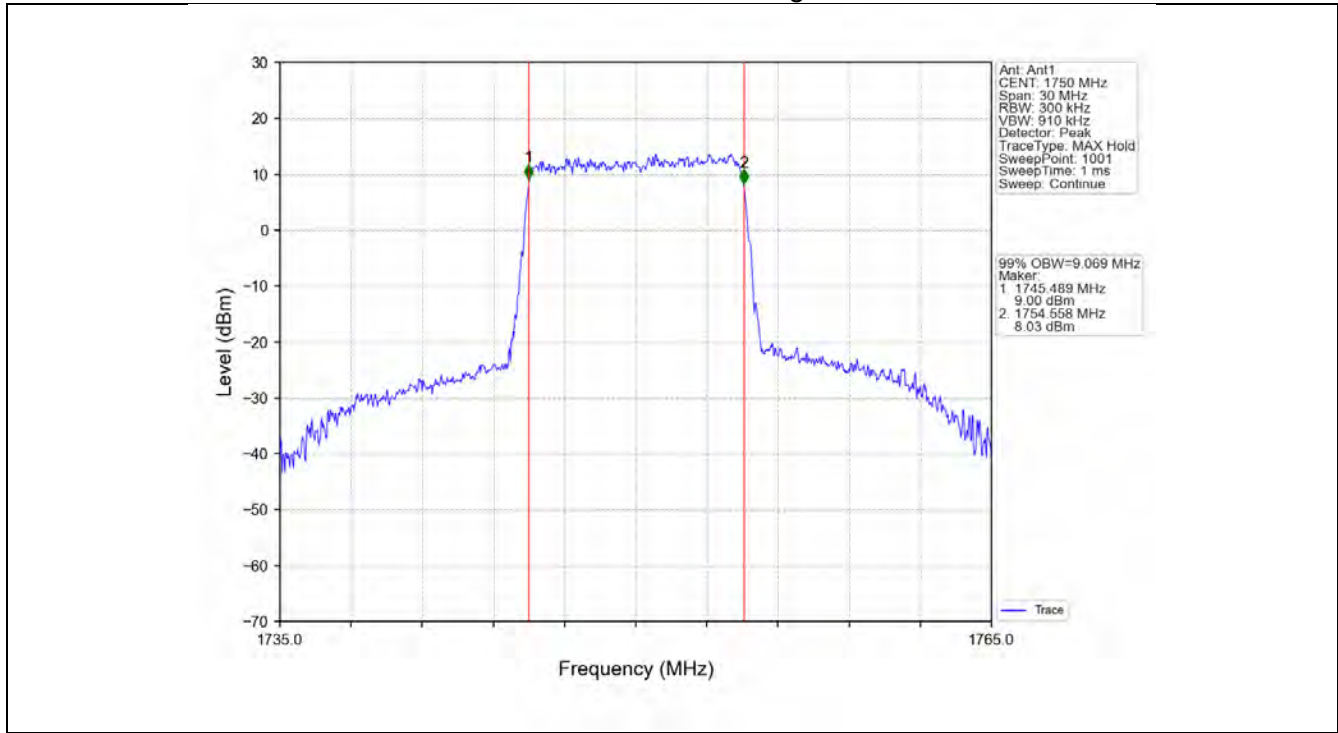
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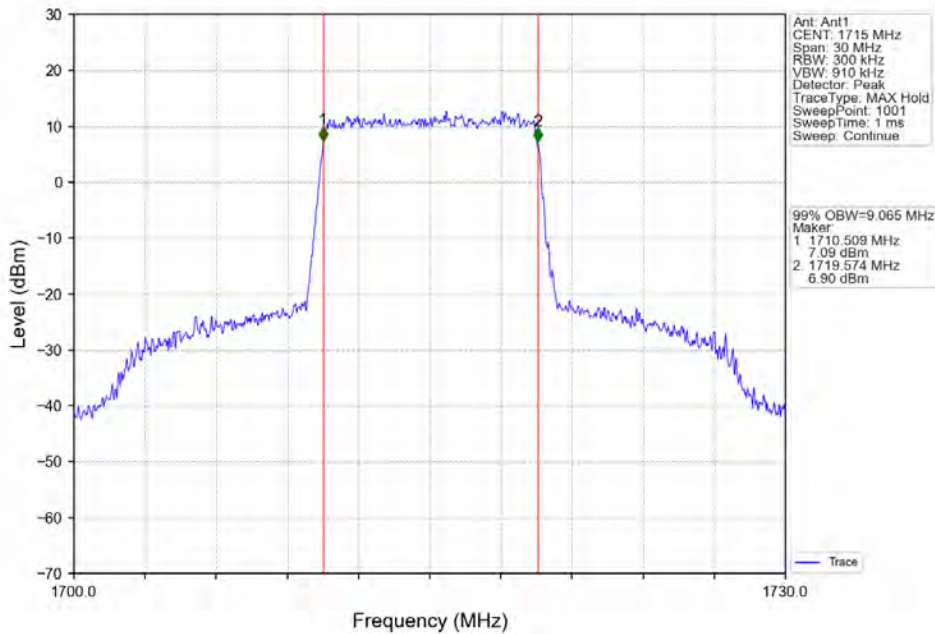


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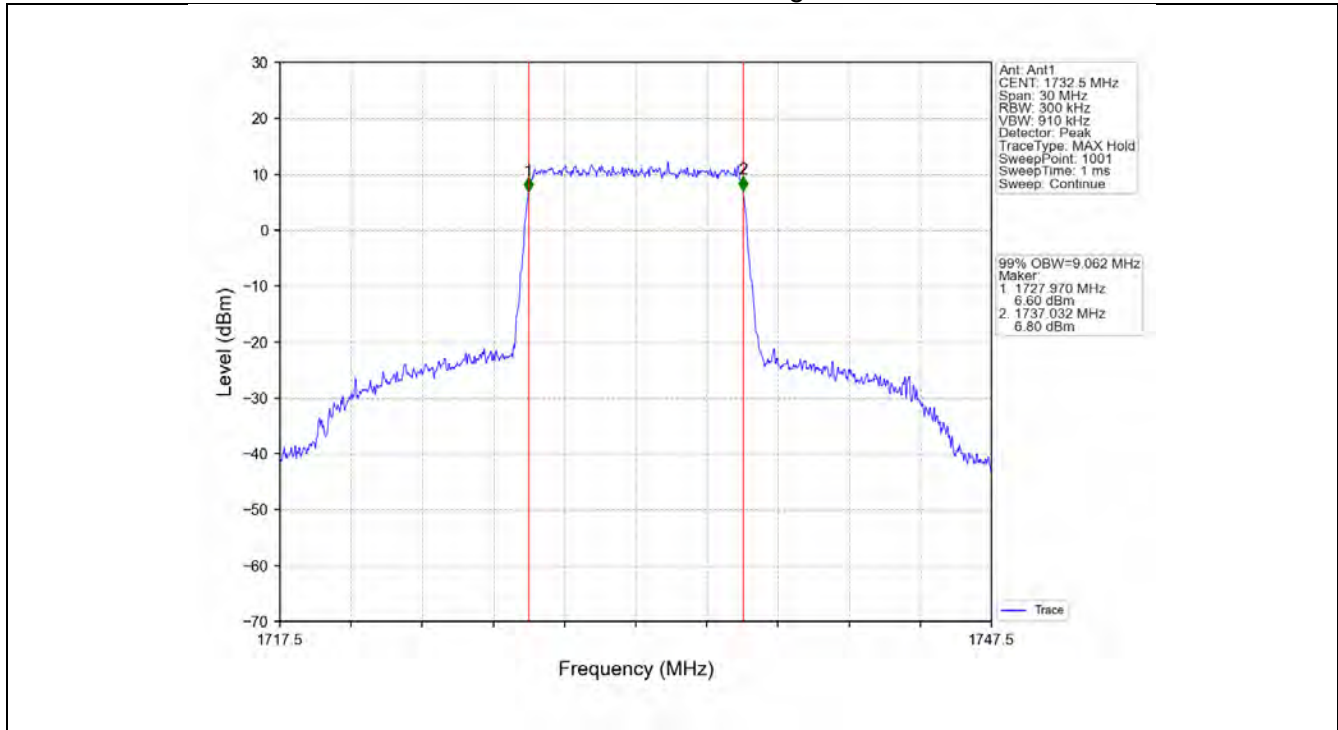


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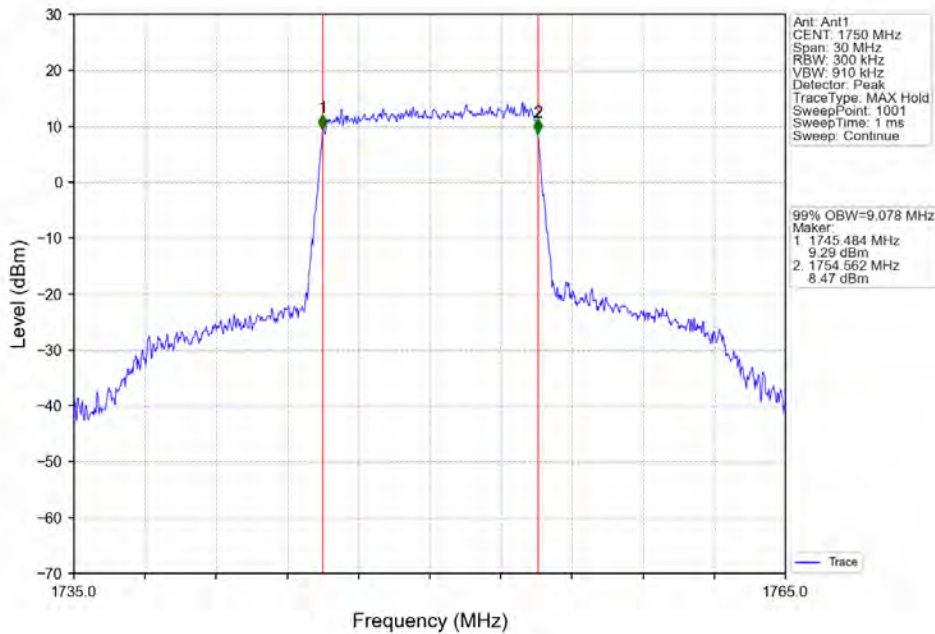


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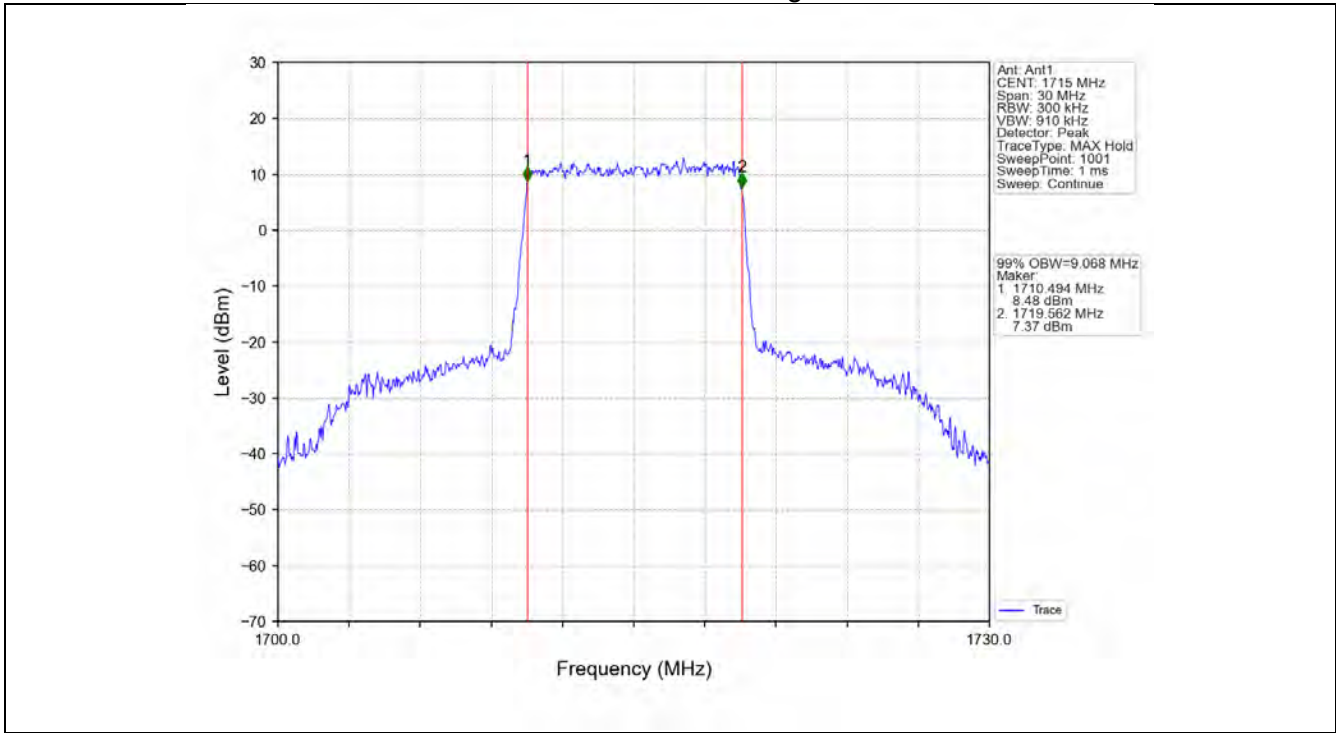
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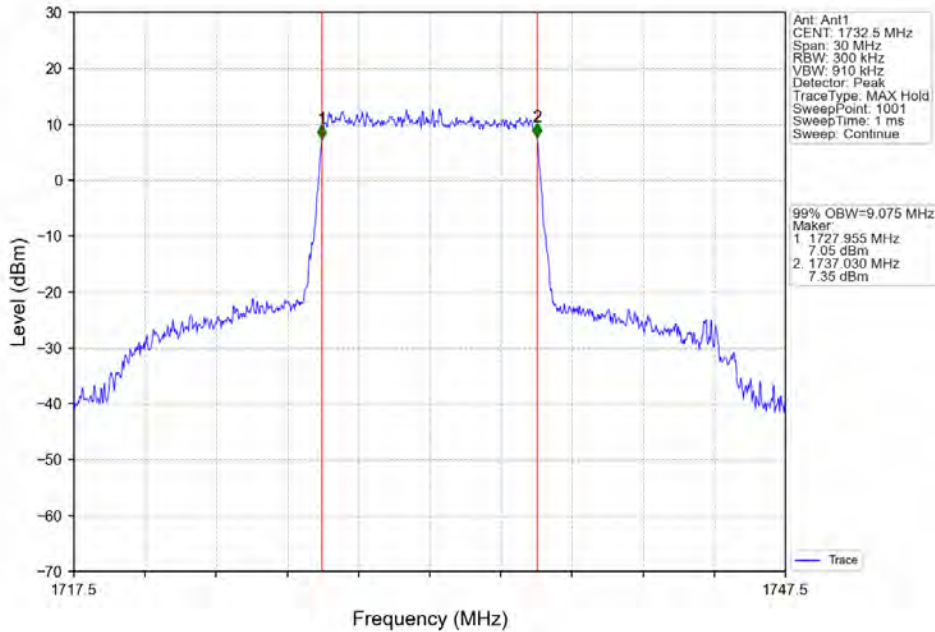


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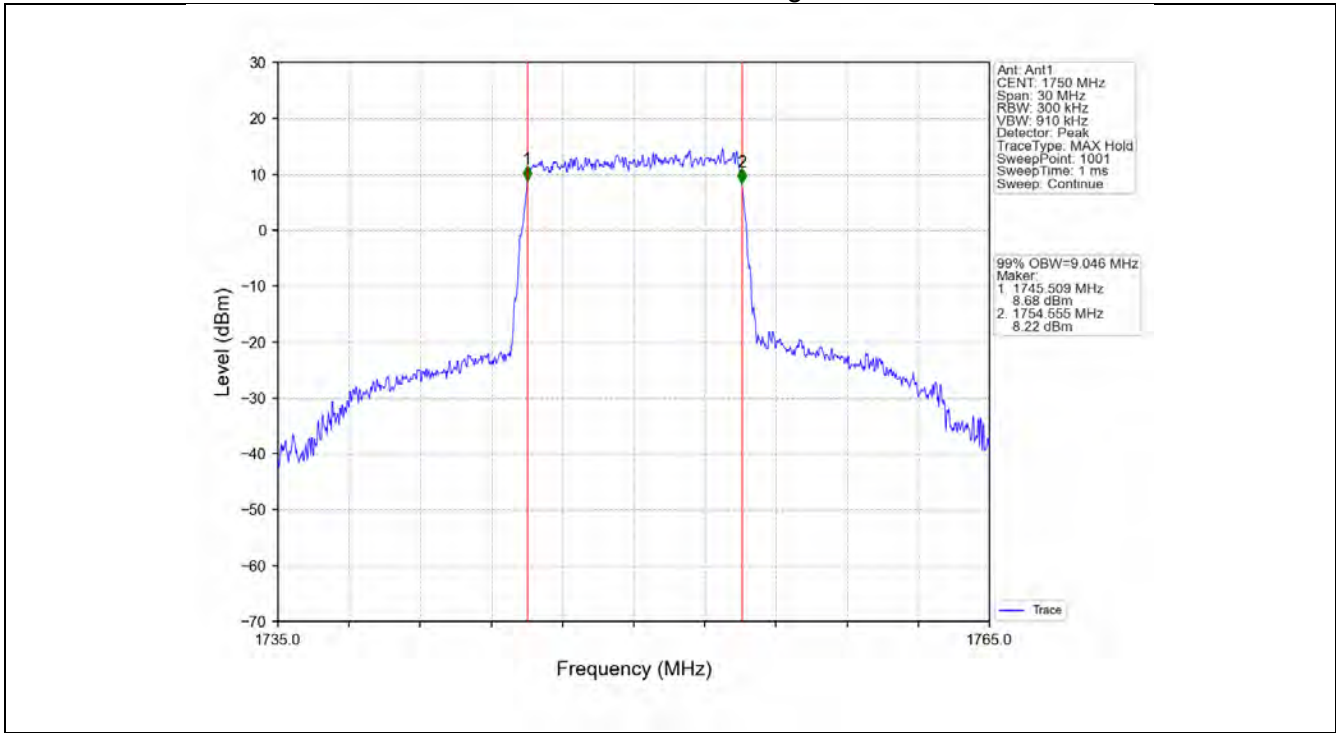


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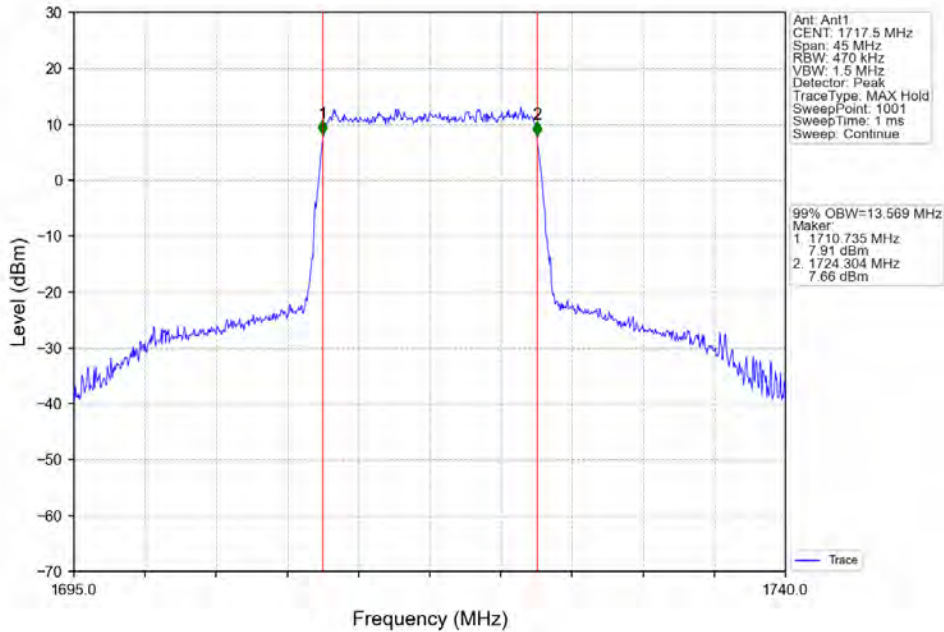


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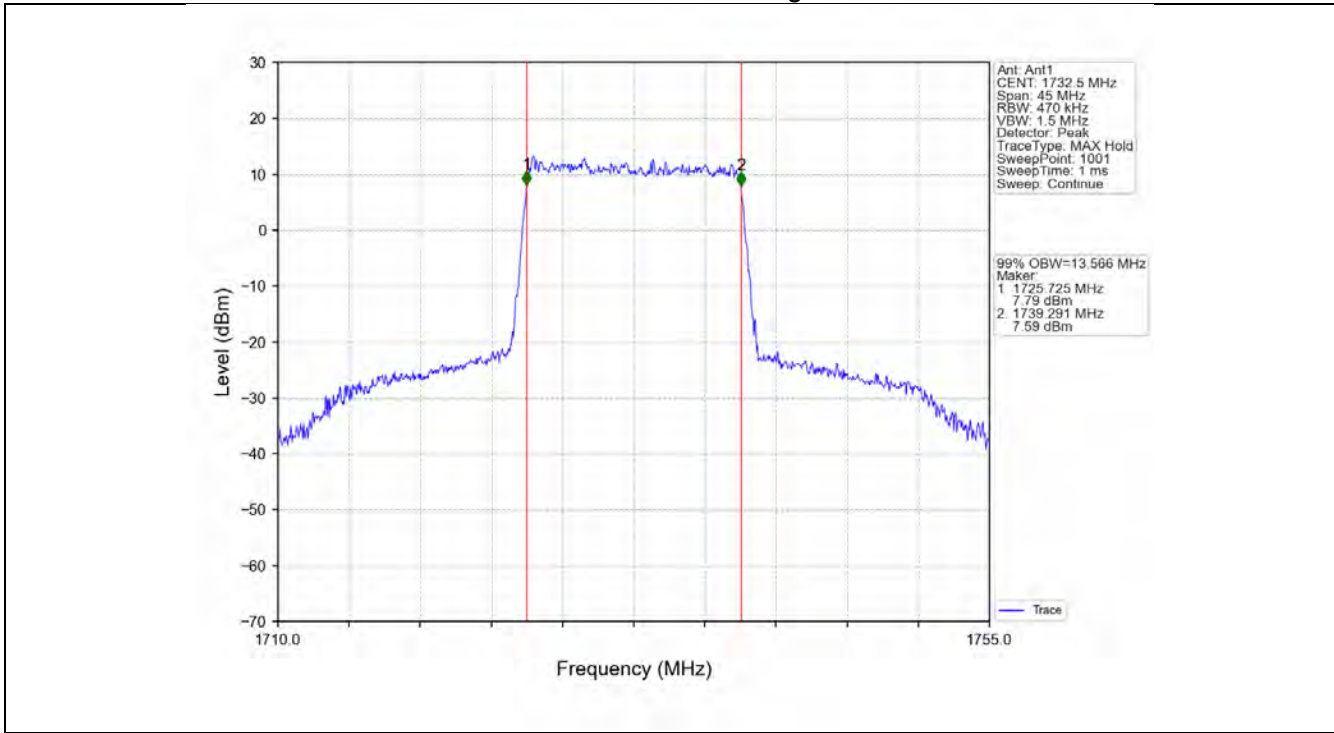


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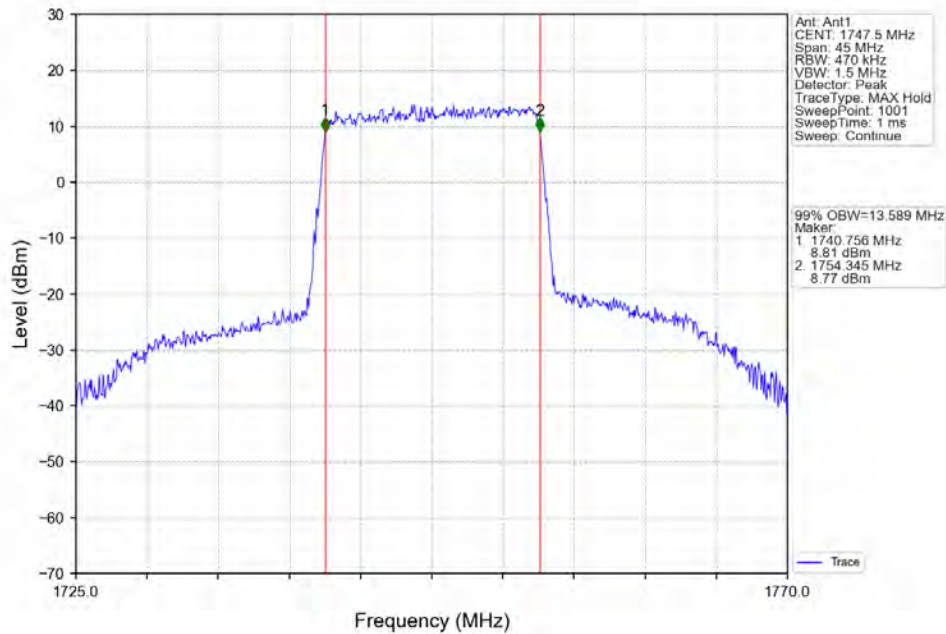


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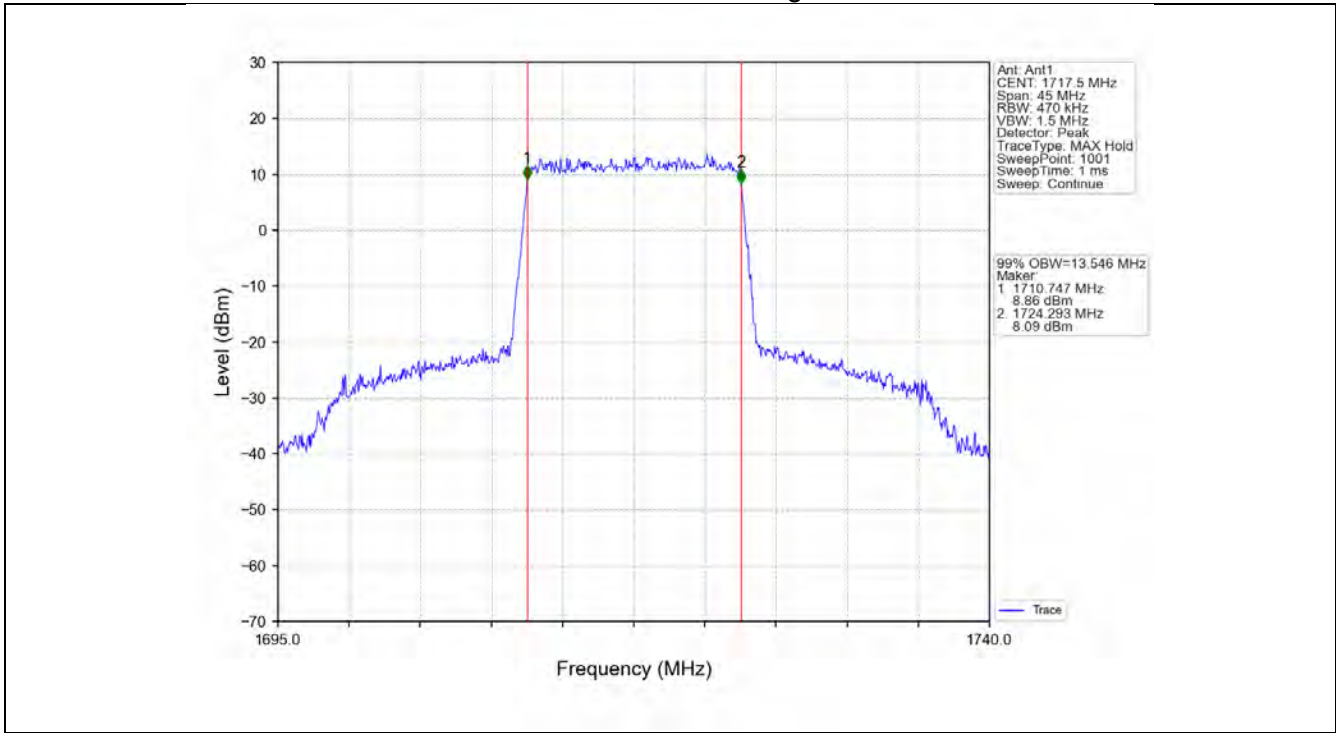
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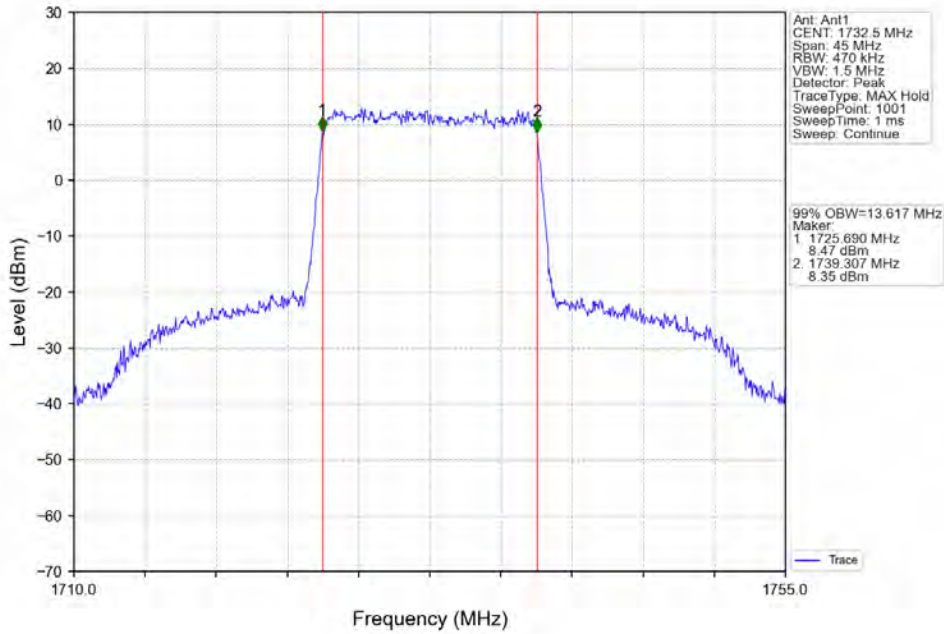


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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



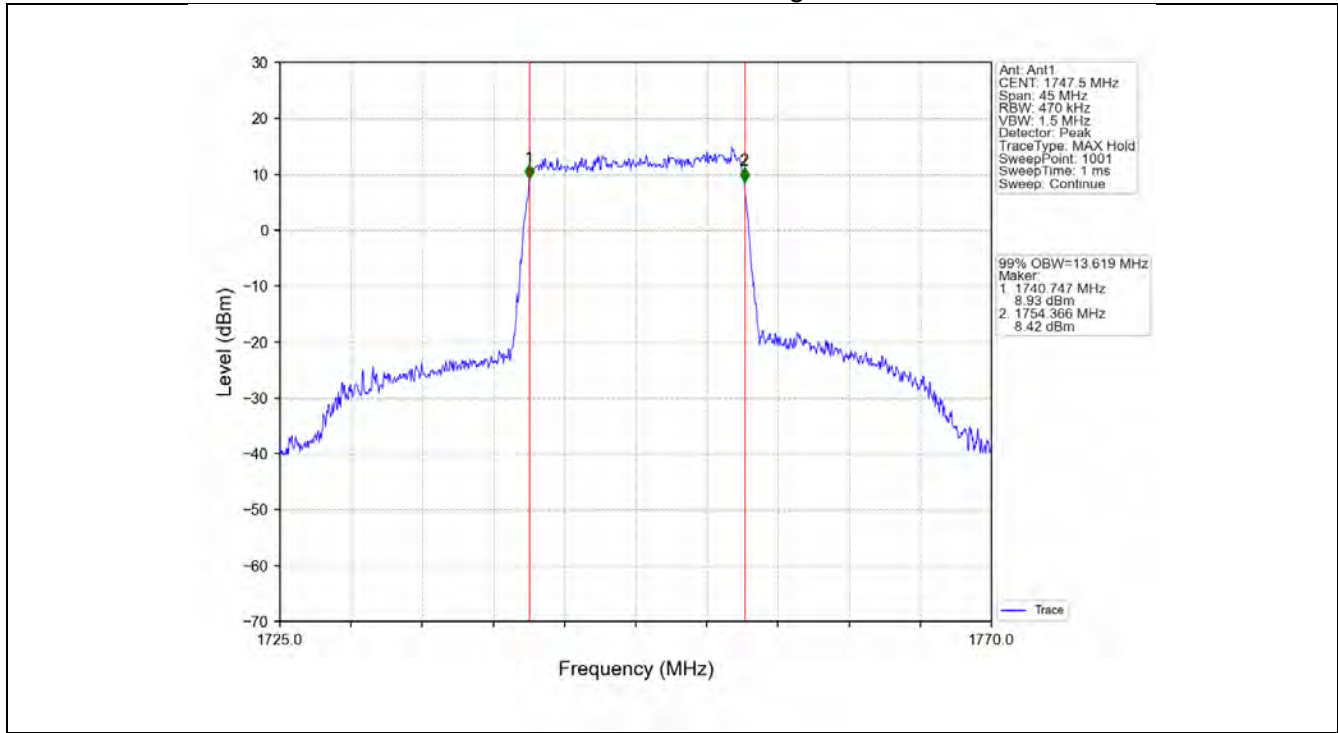
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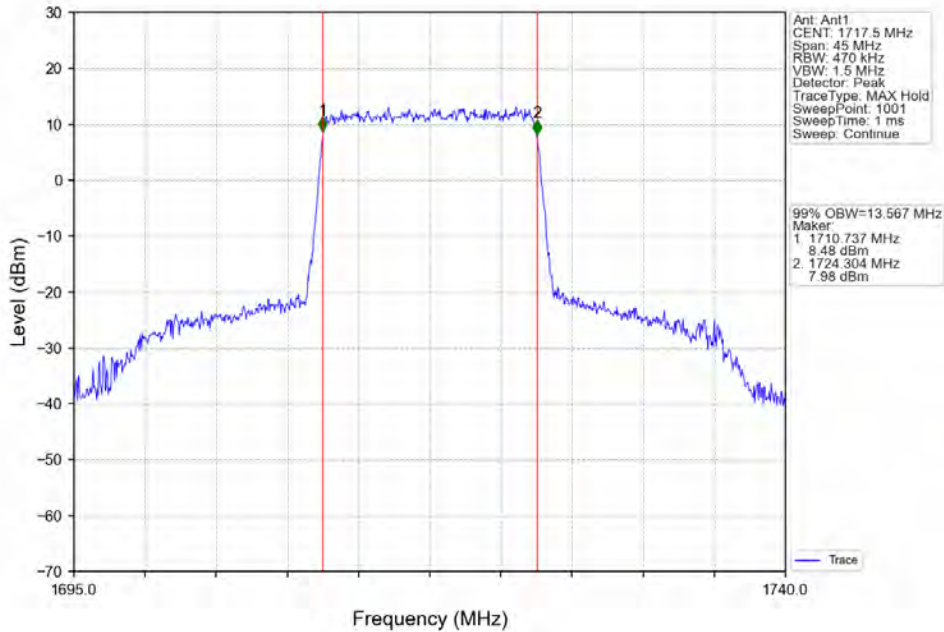


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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



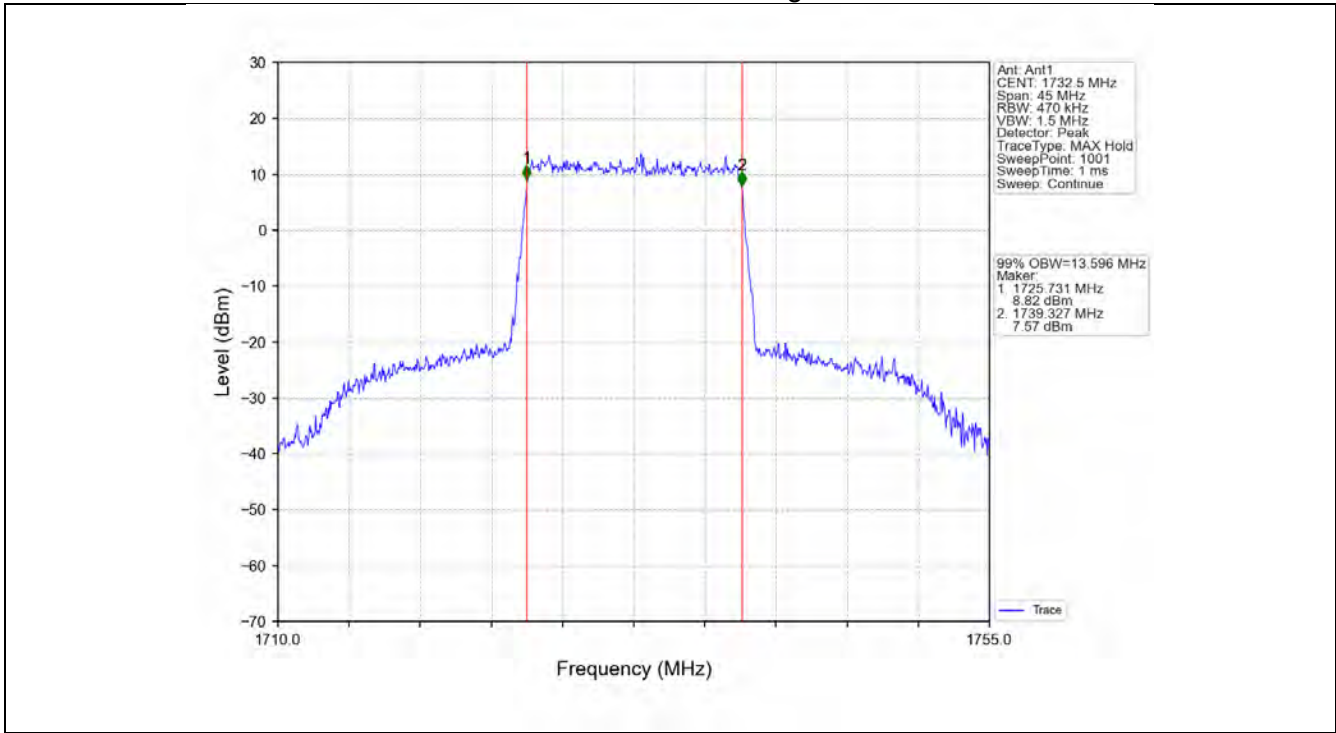
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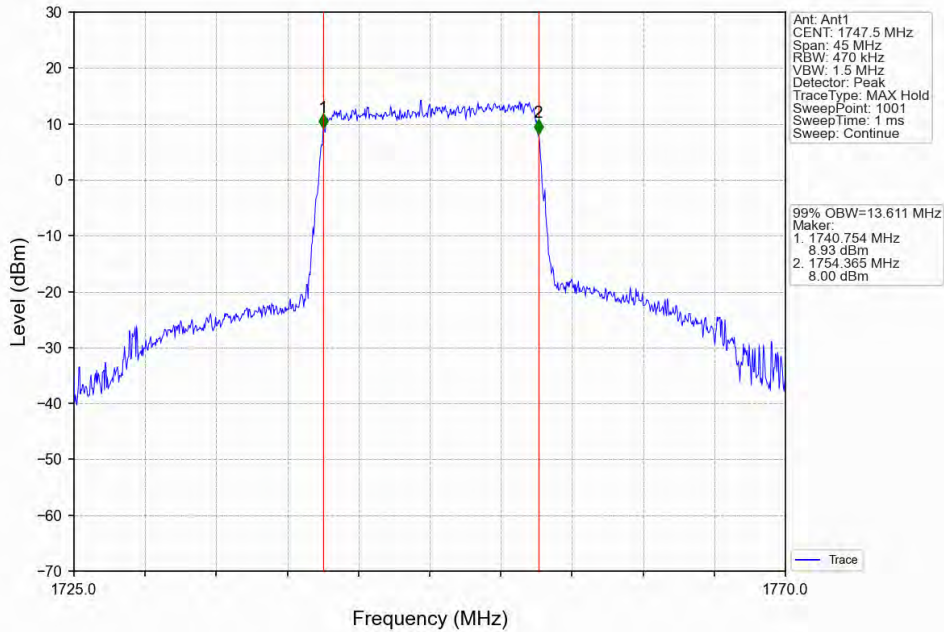


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Rev.: 01

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Band4 15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV



Band4 20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

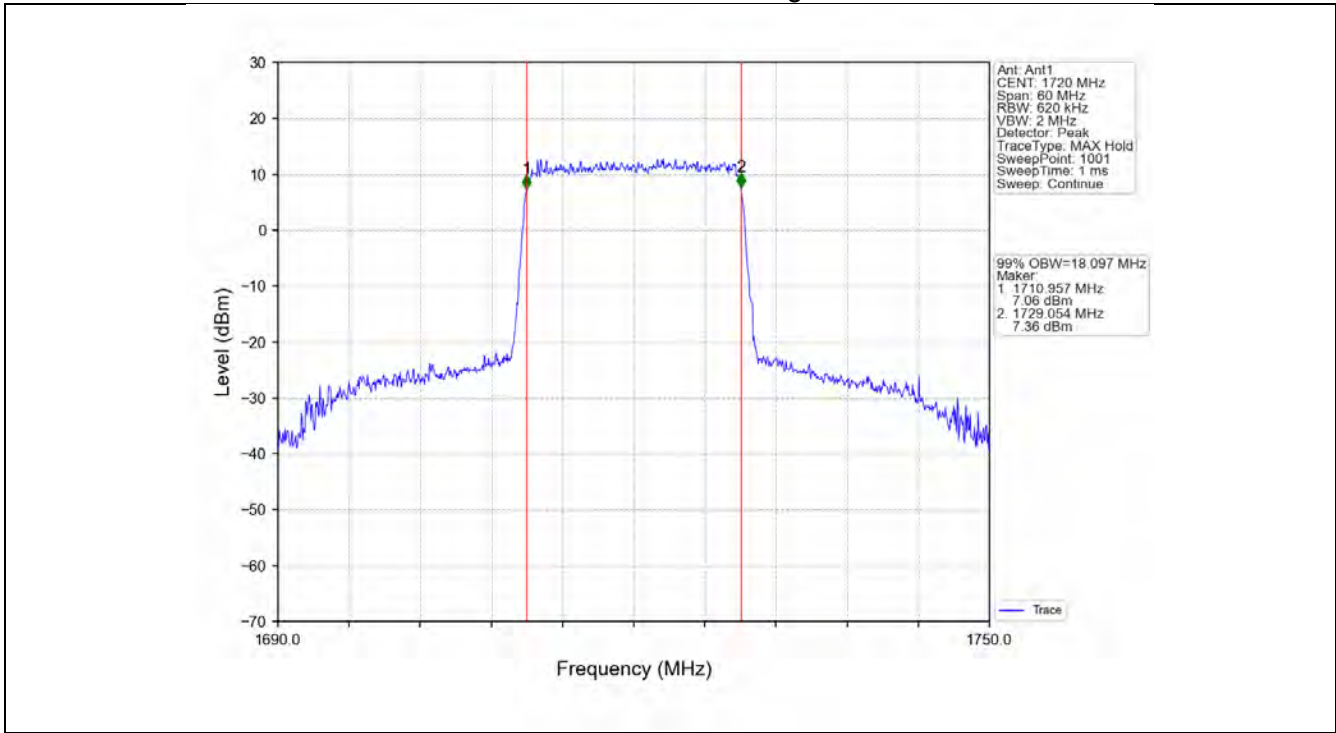


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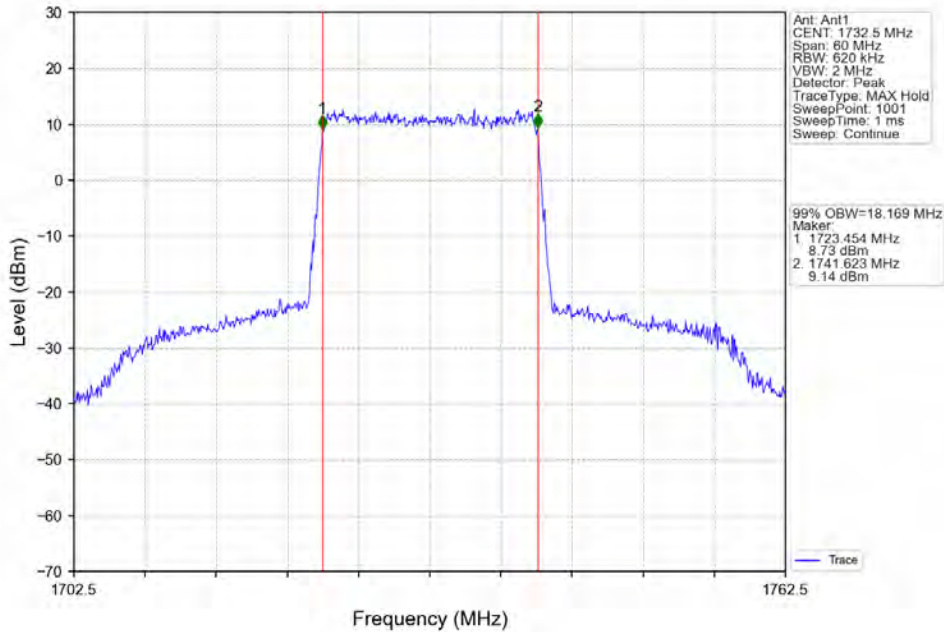


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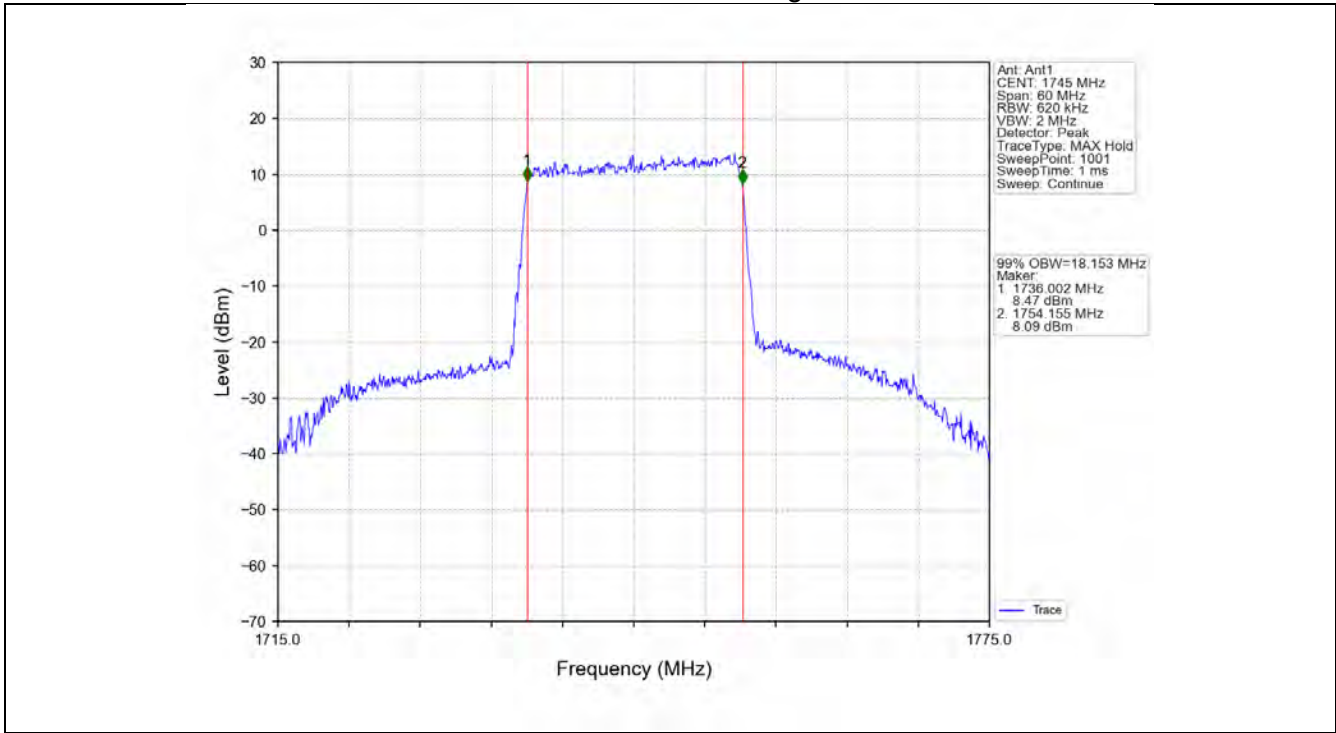
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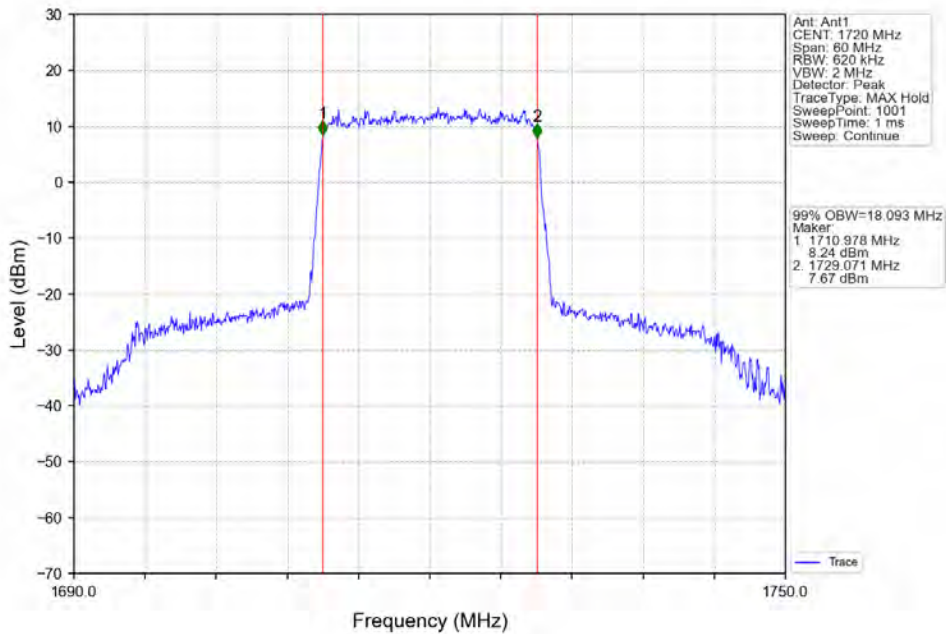


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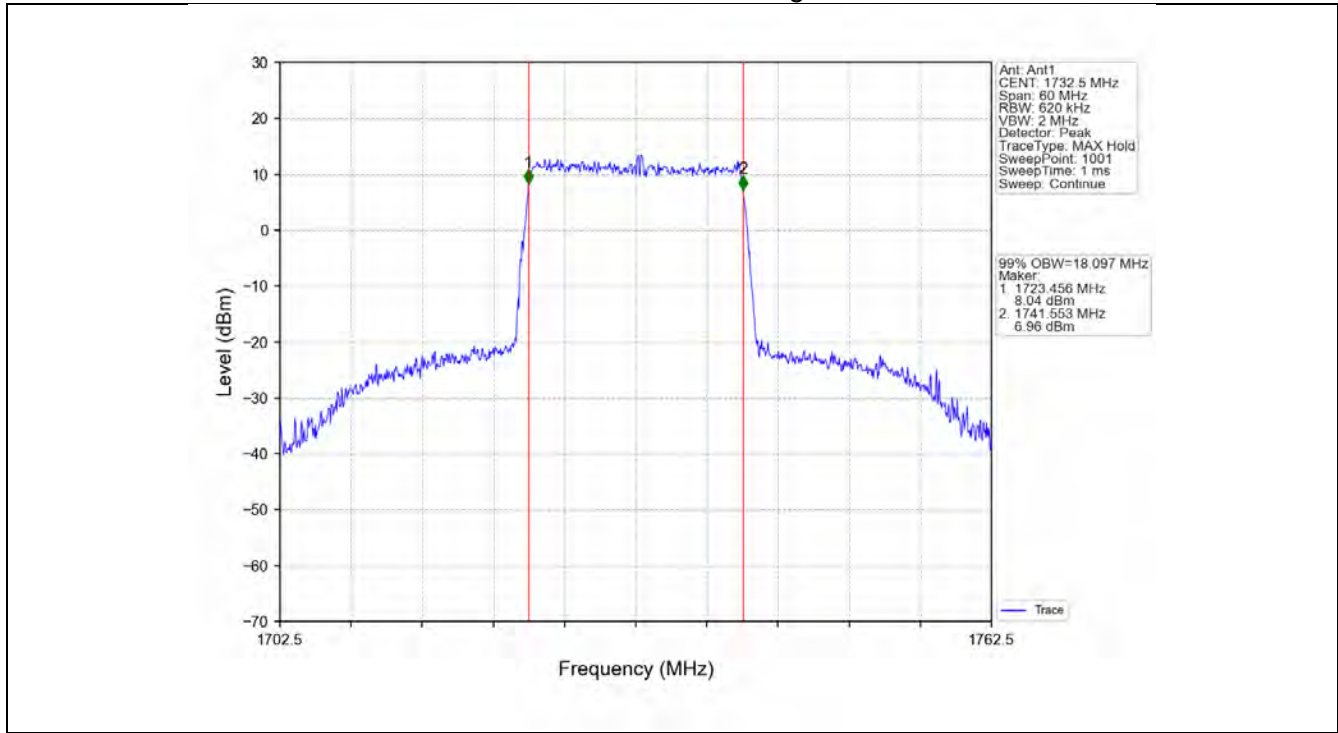
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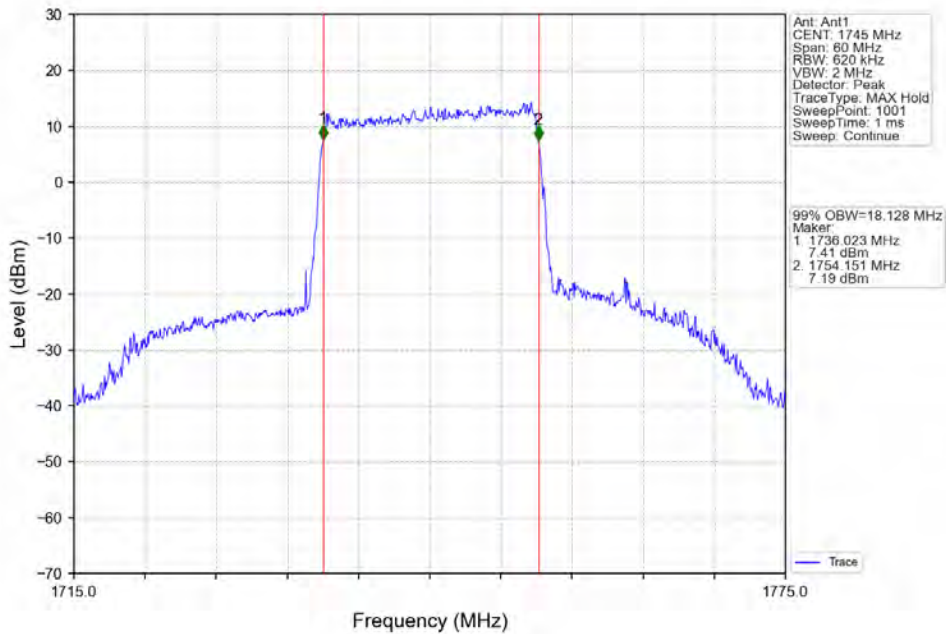


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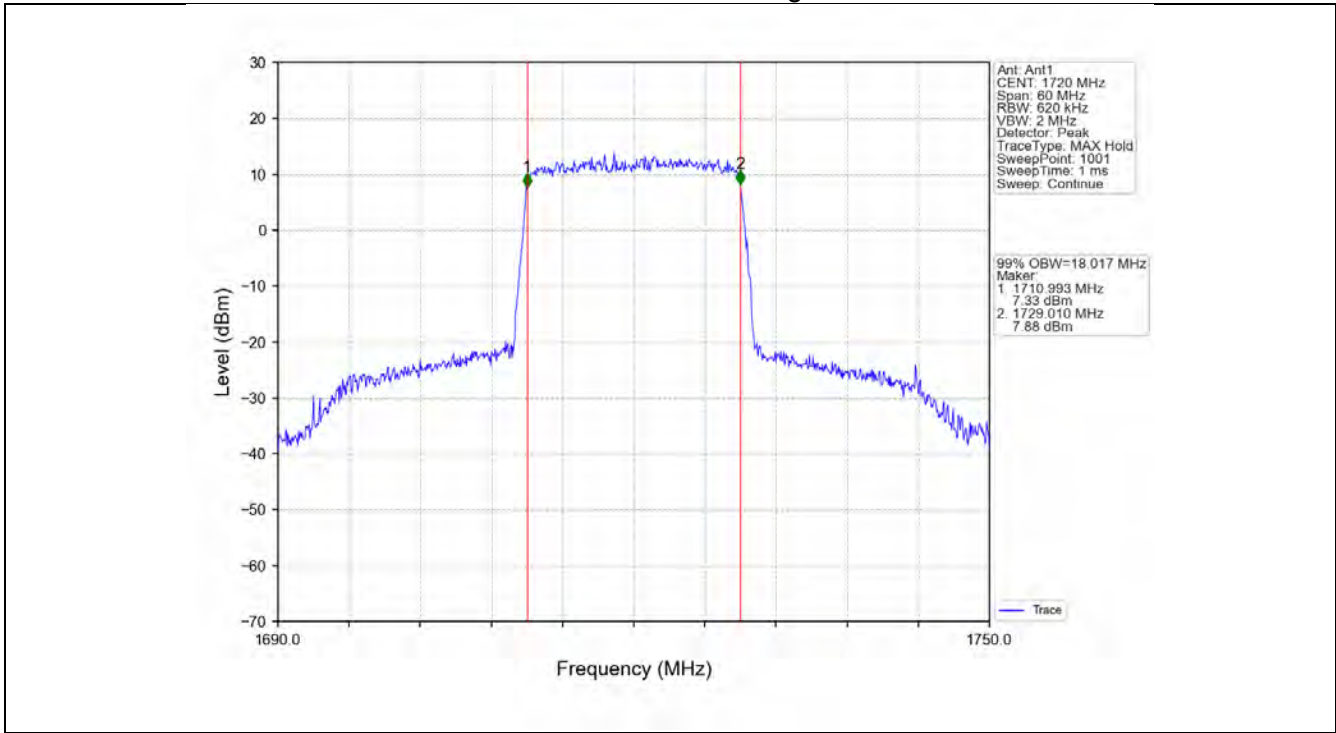
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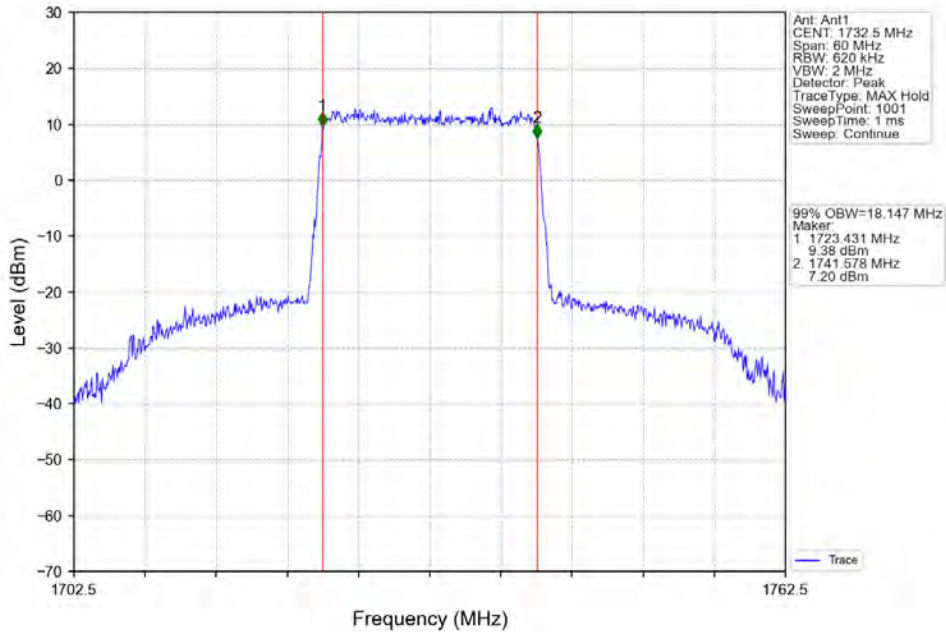


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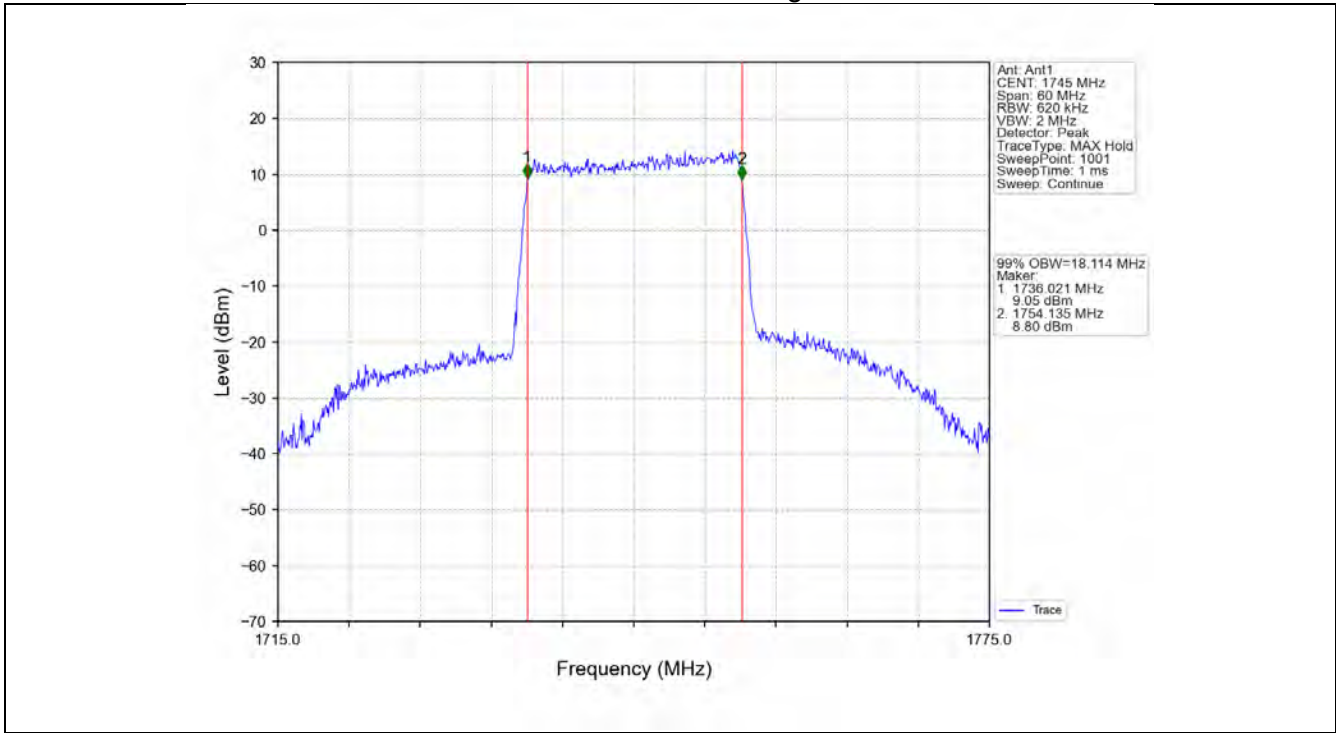
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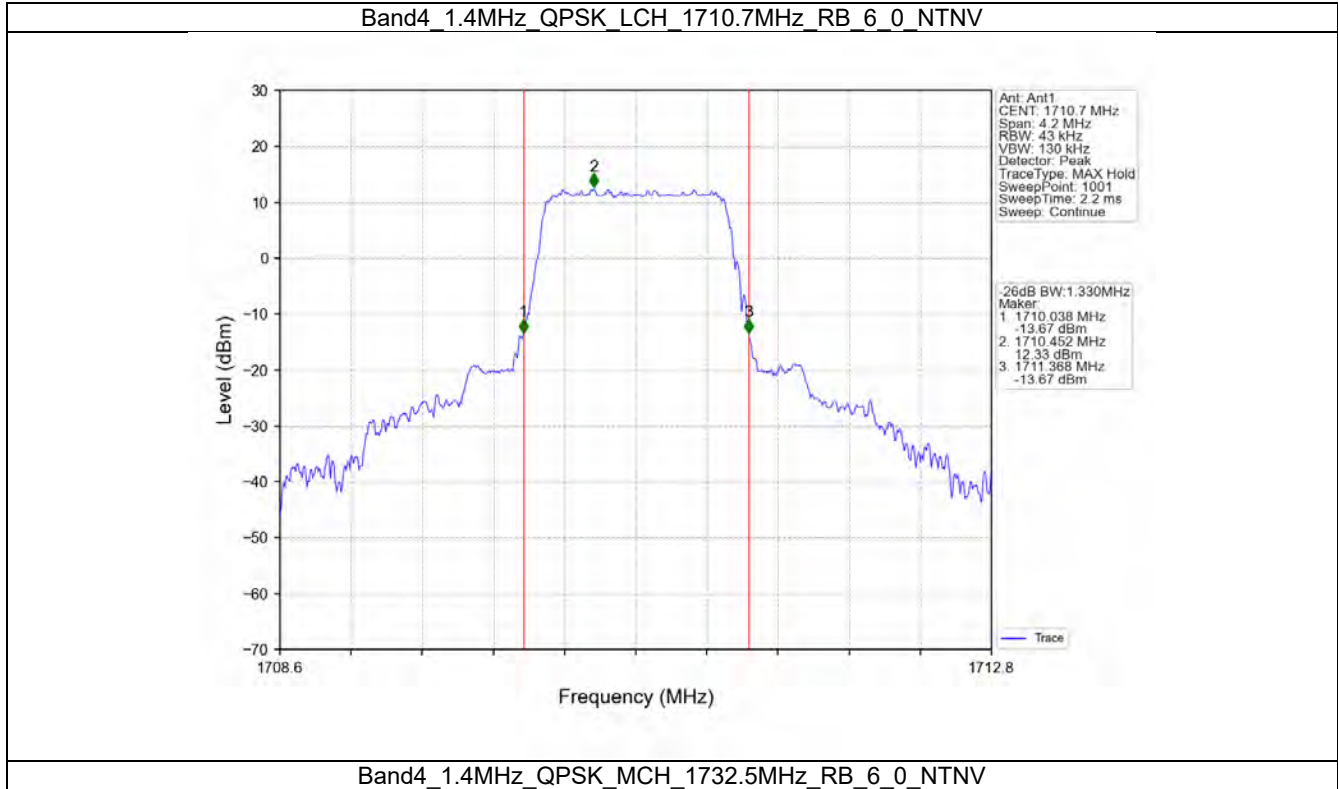
Report No.: SUCR240200003402
Rev.: 01
Page: 86 of 263

3.2 Band4_XDB



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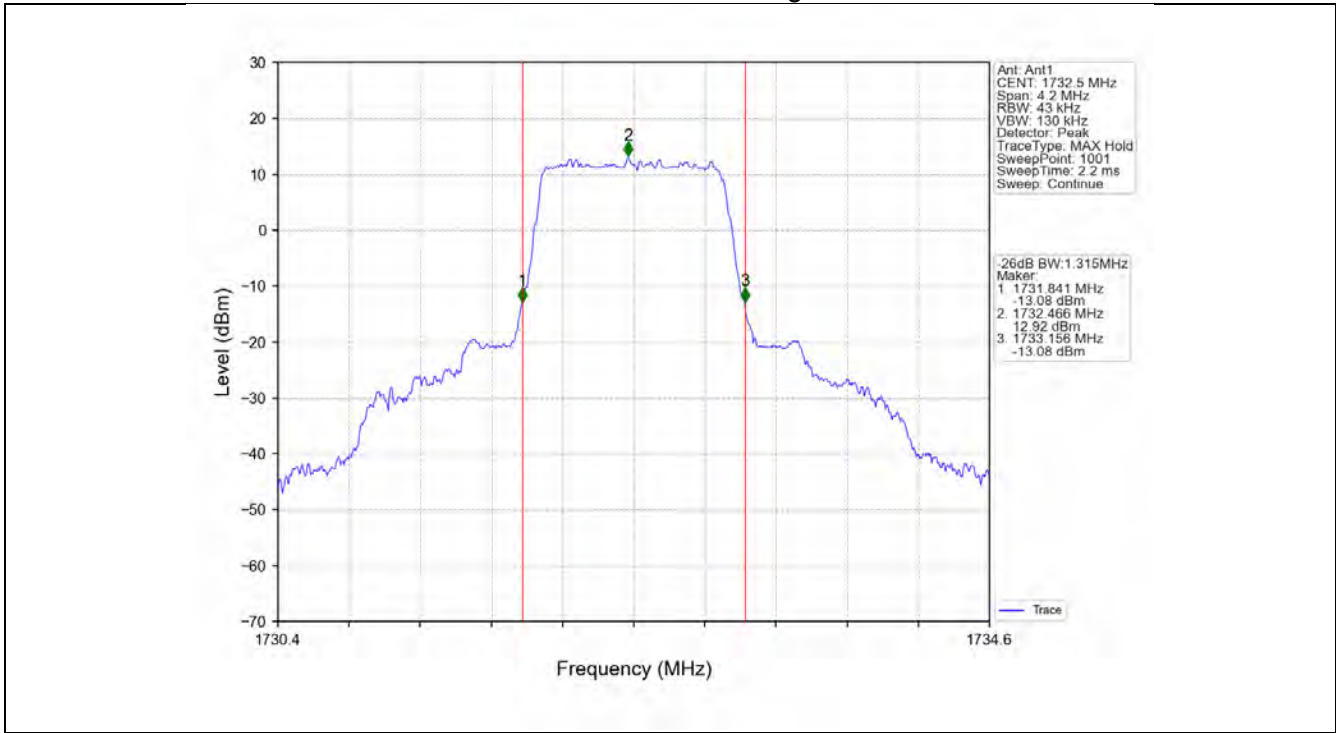
3.2.2 Test Graph



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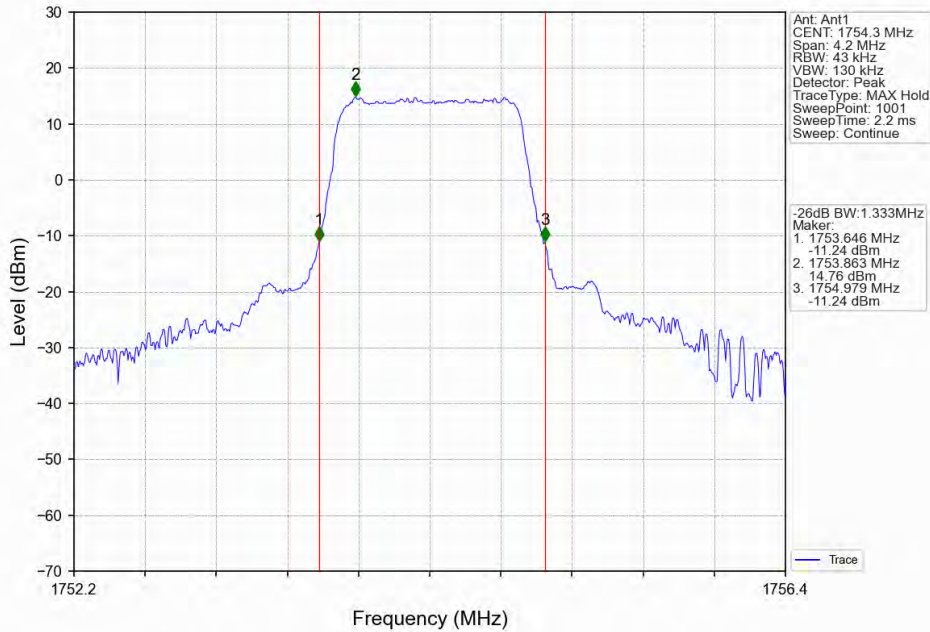


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



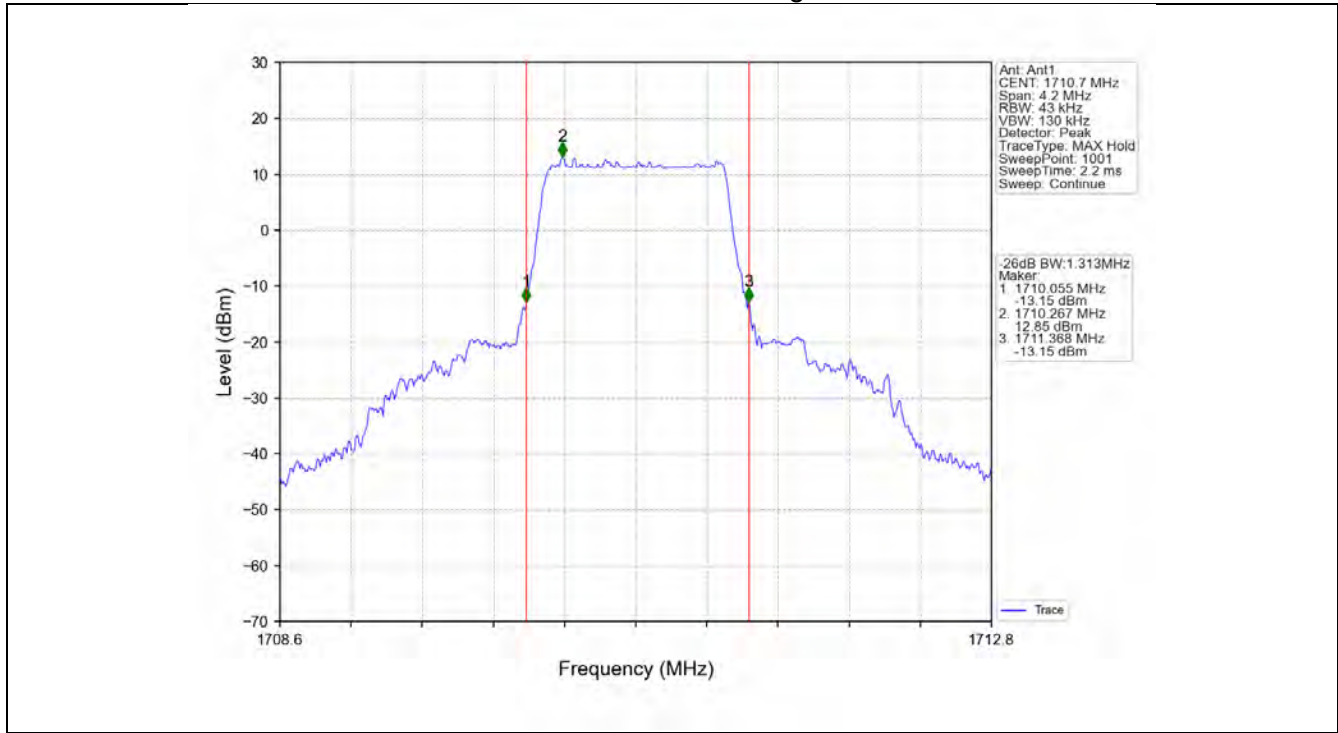
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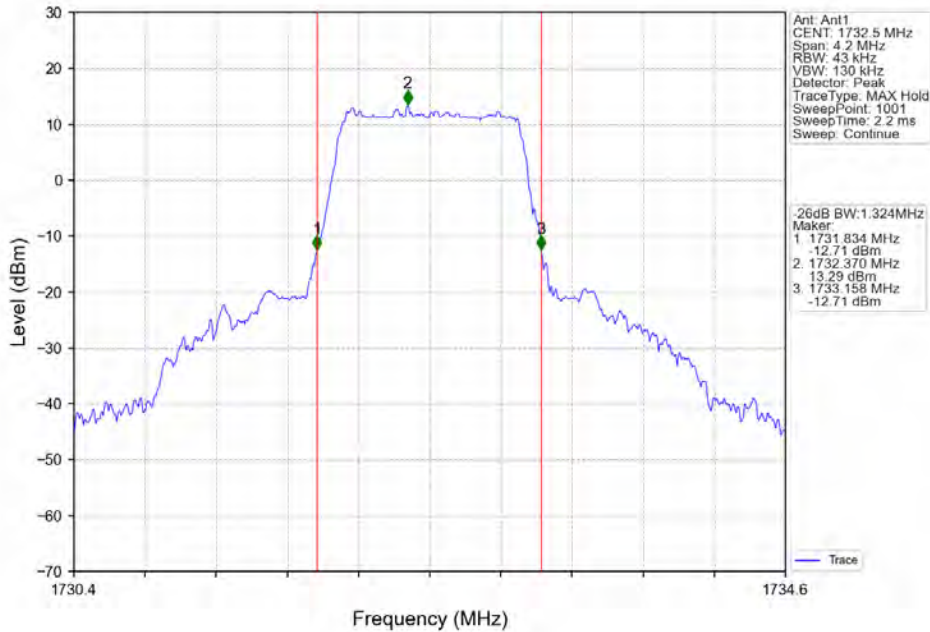


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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



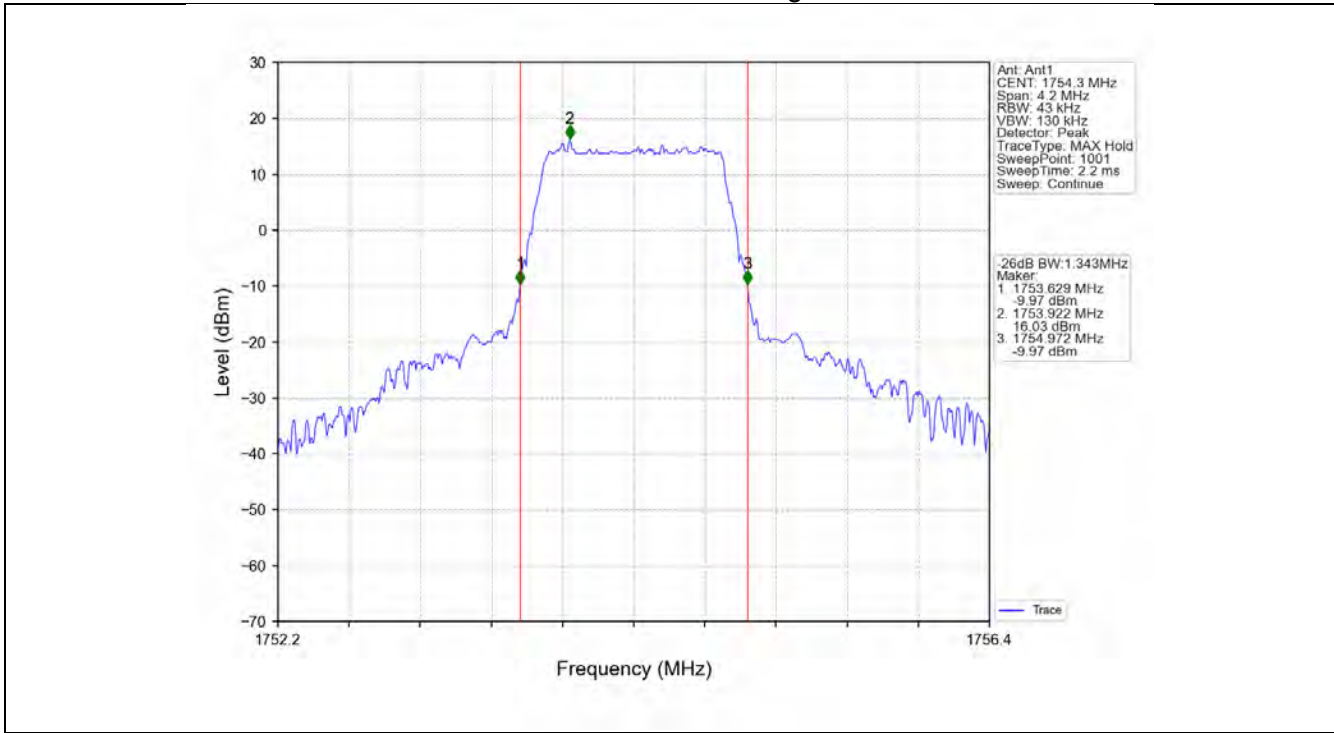
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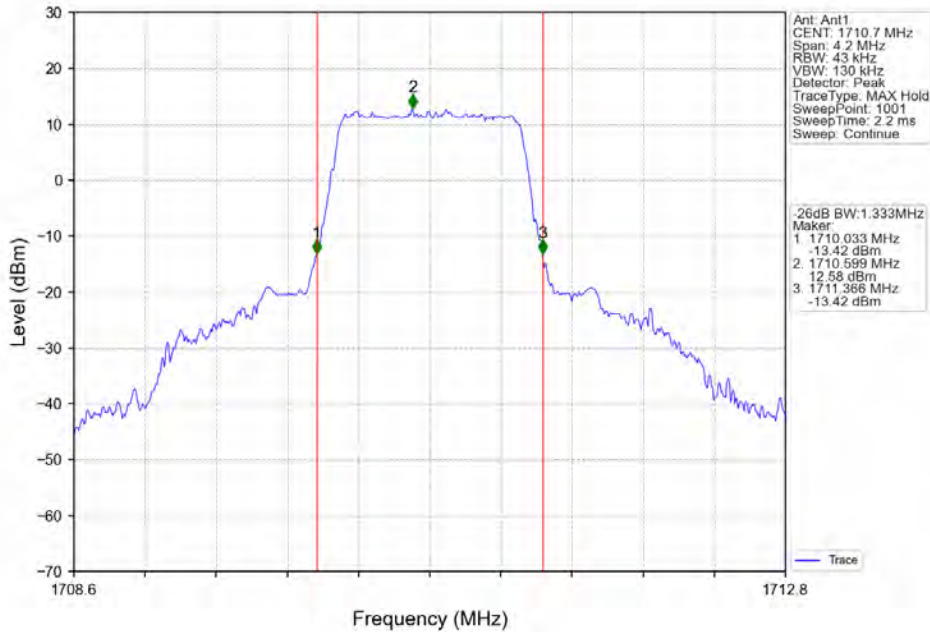


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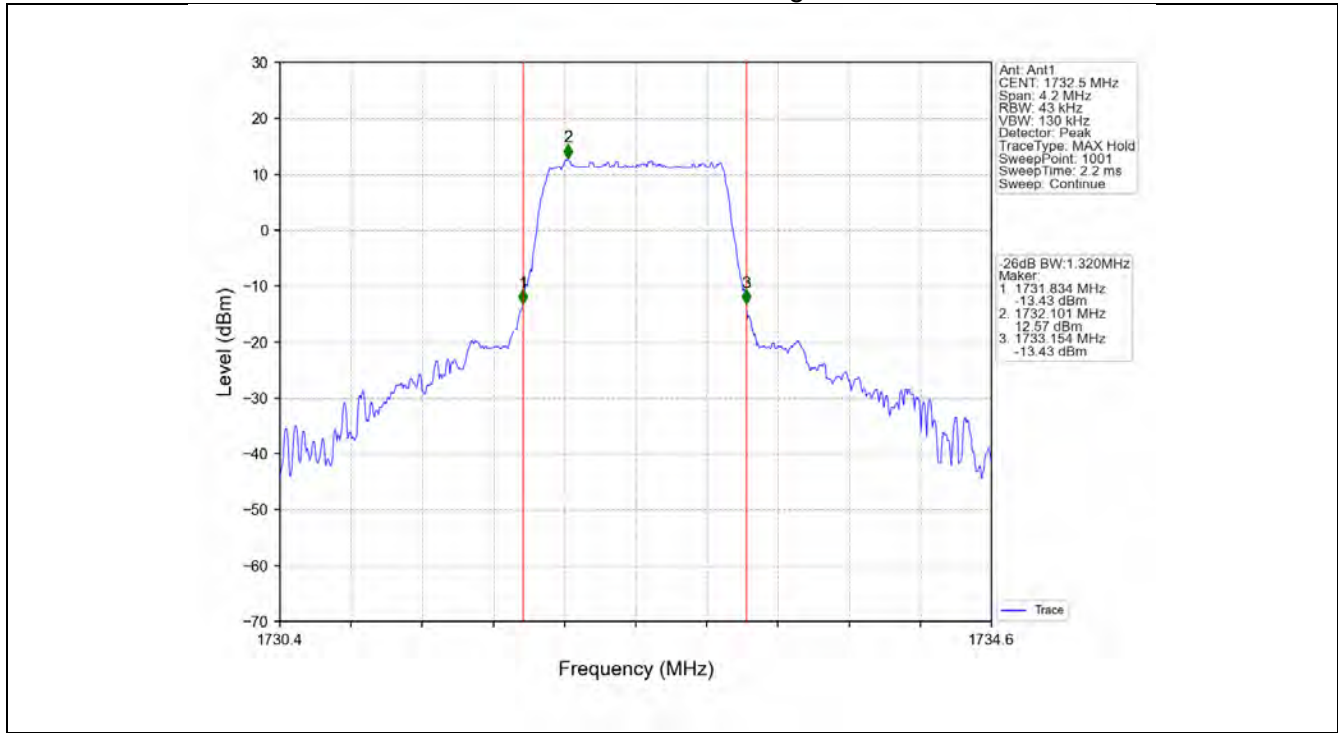
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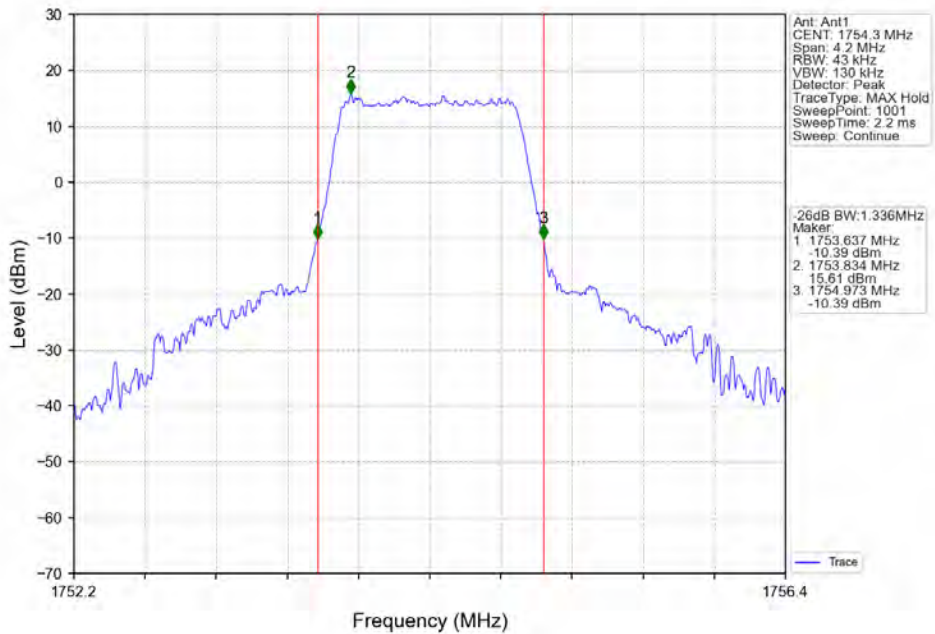


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Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN



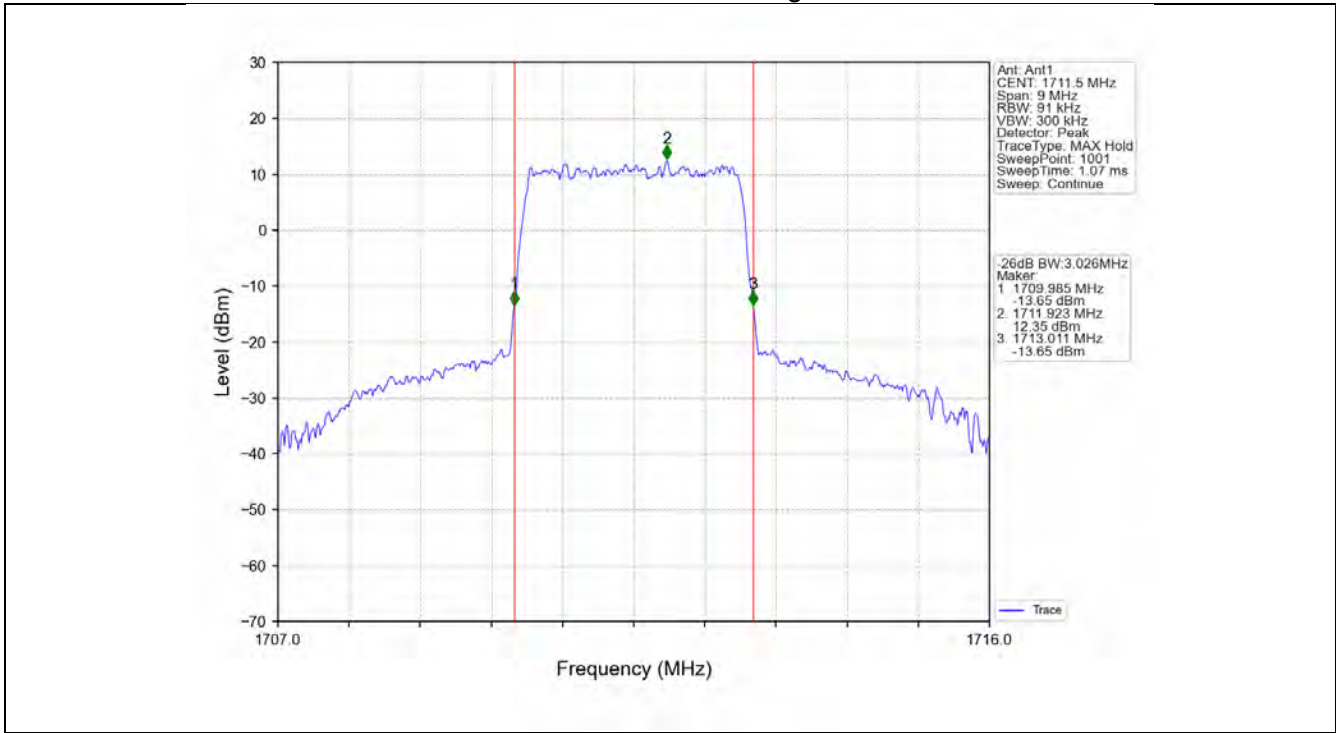
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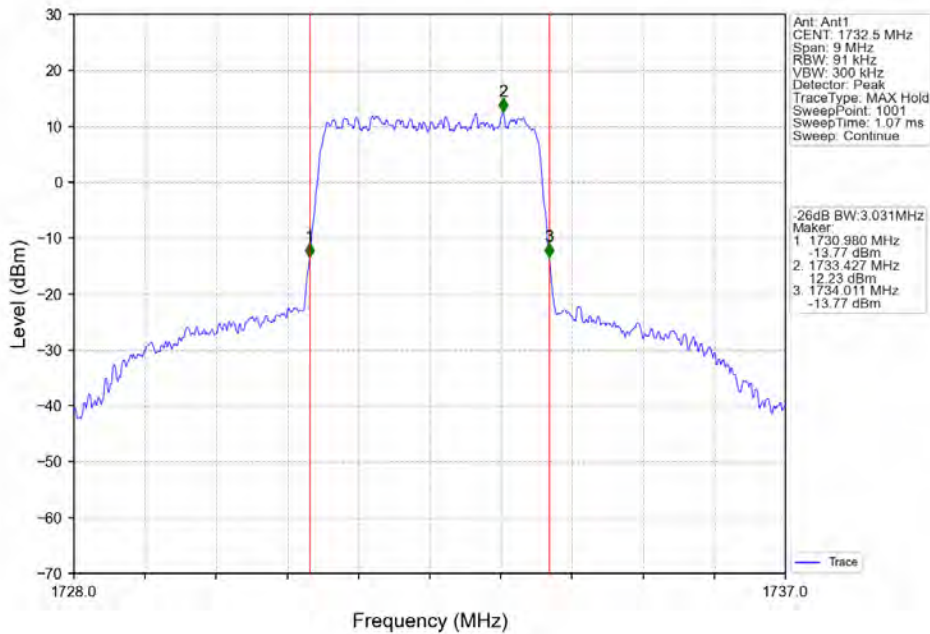


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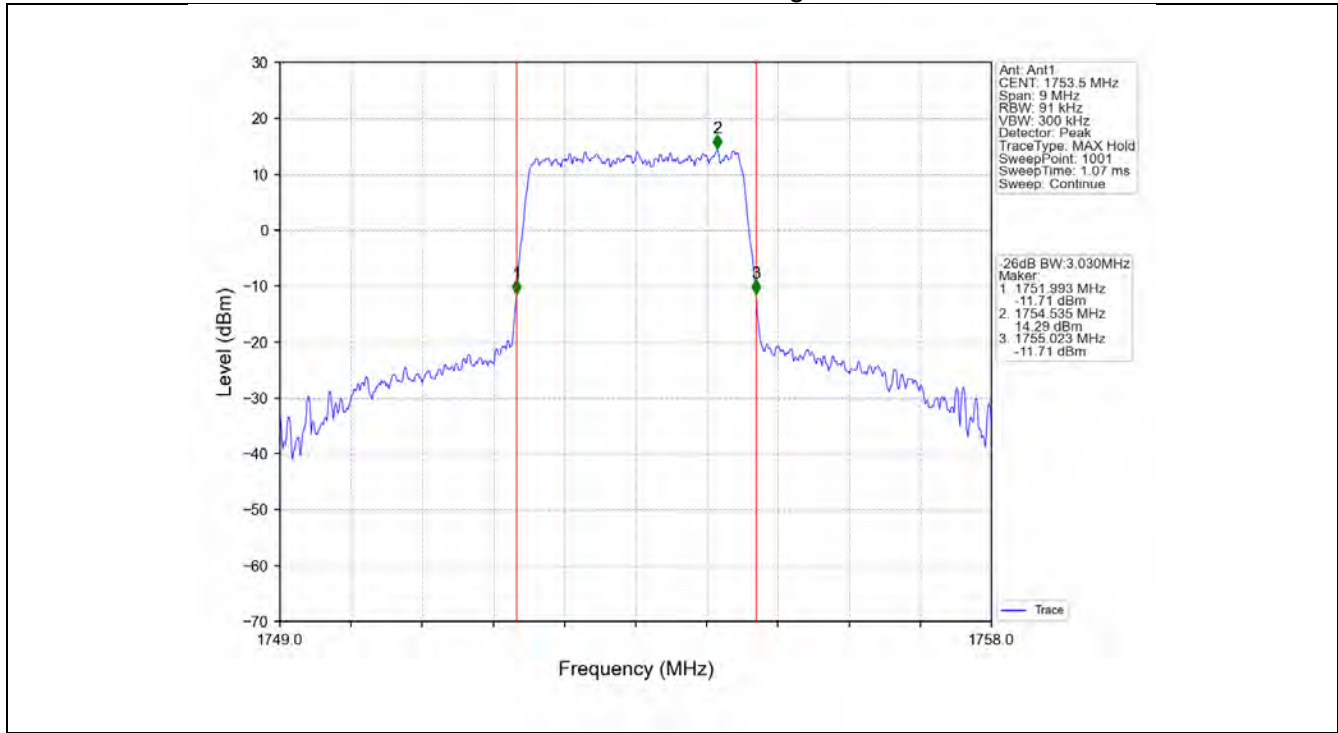
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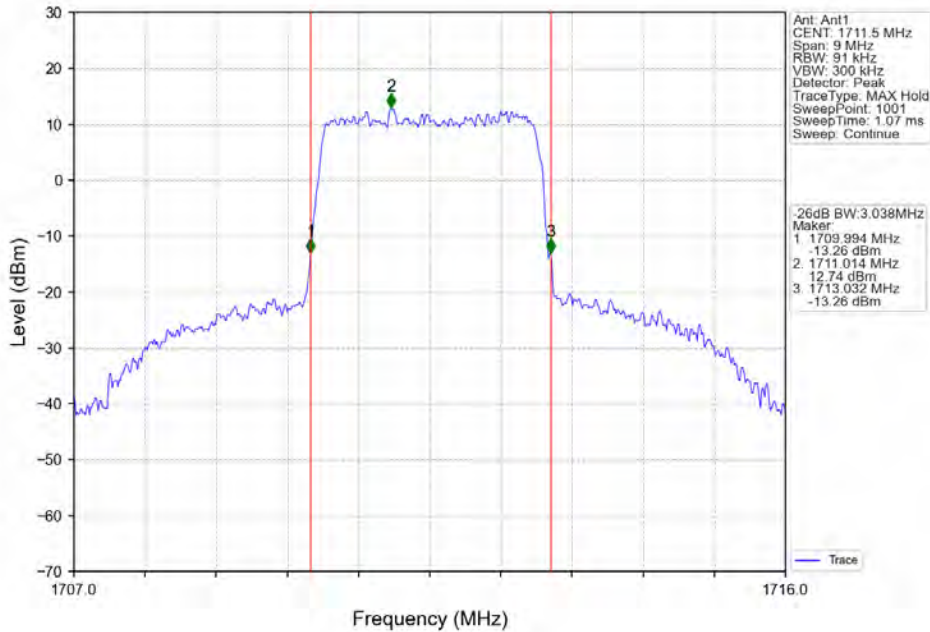


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



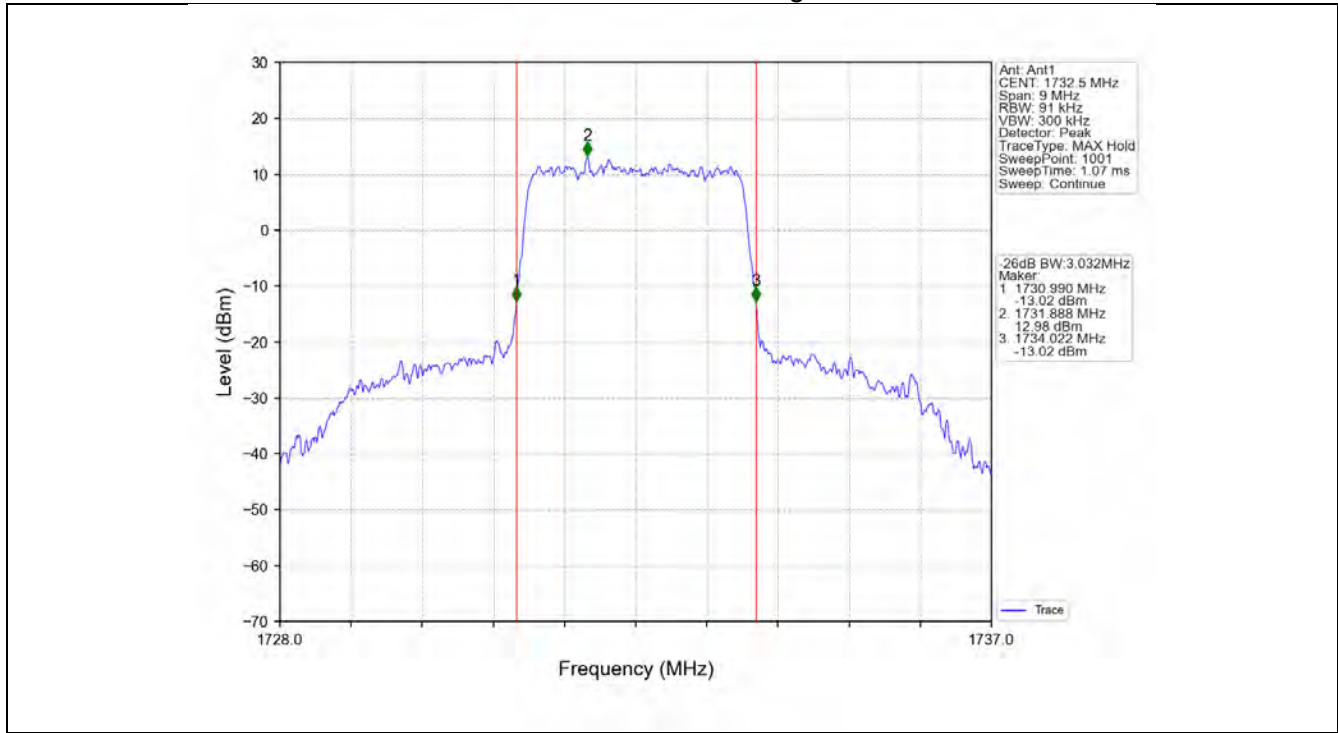
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



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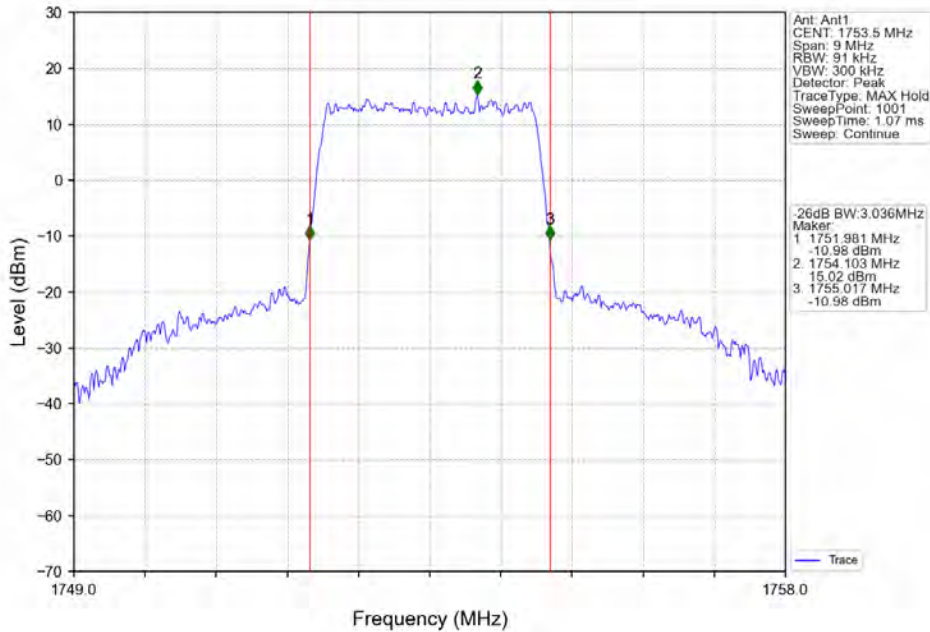


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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



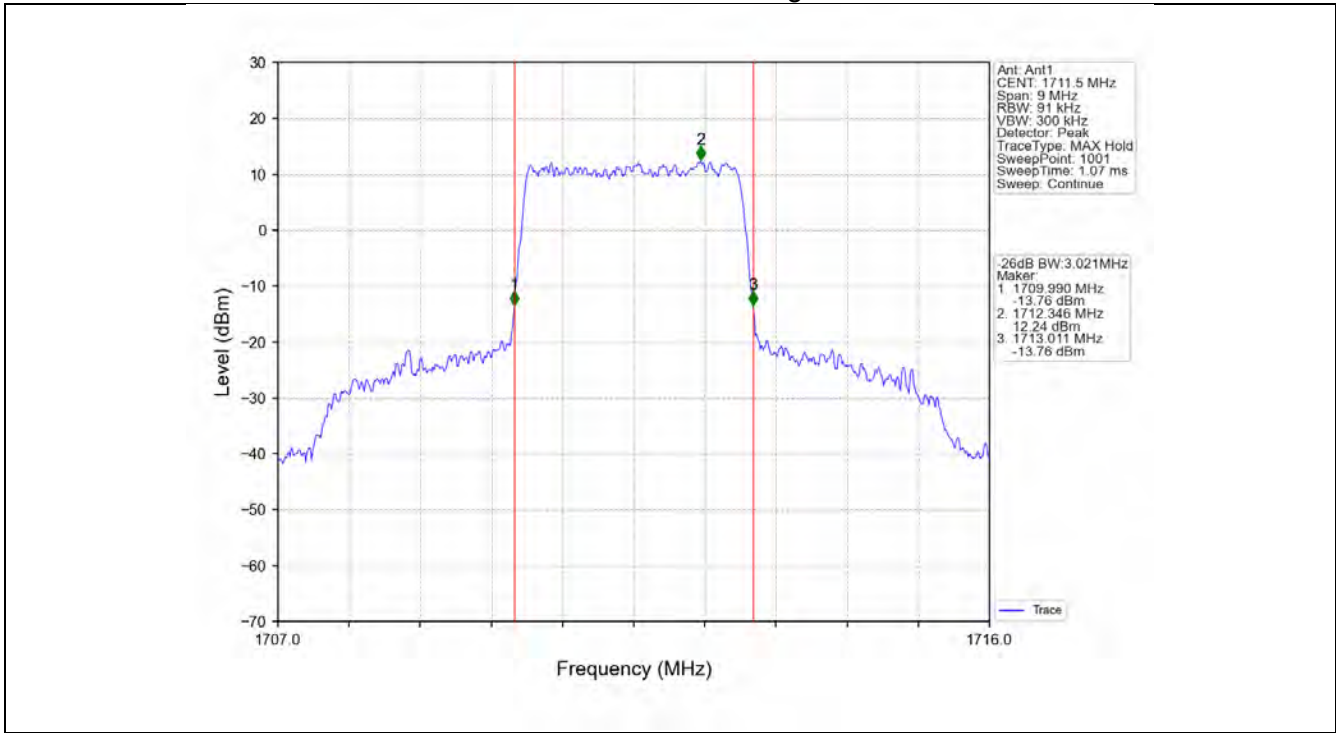
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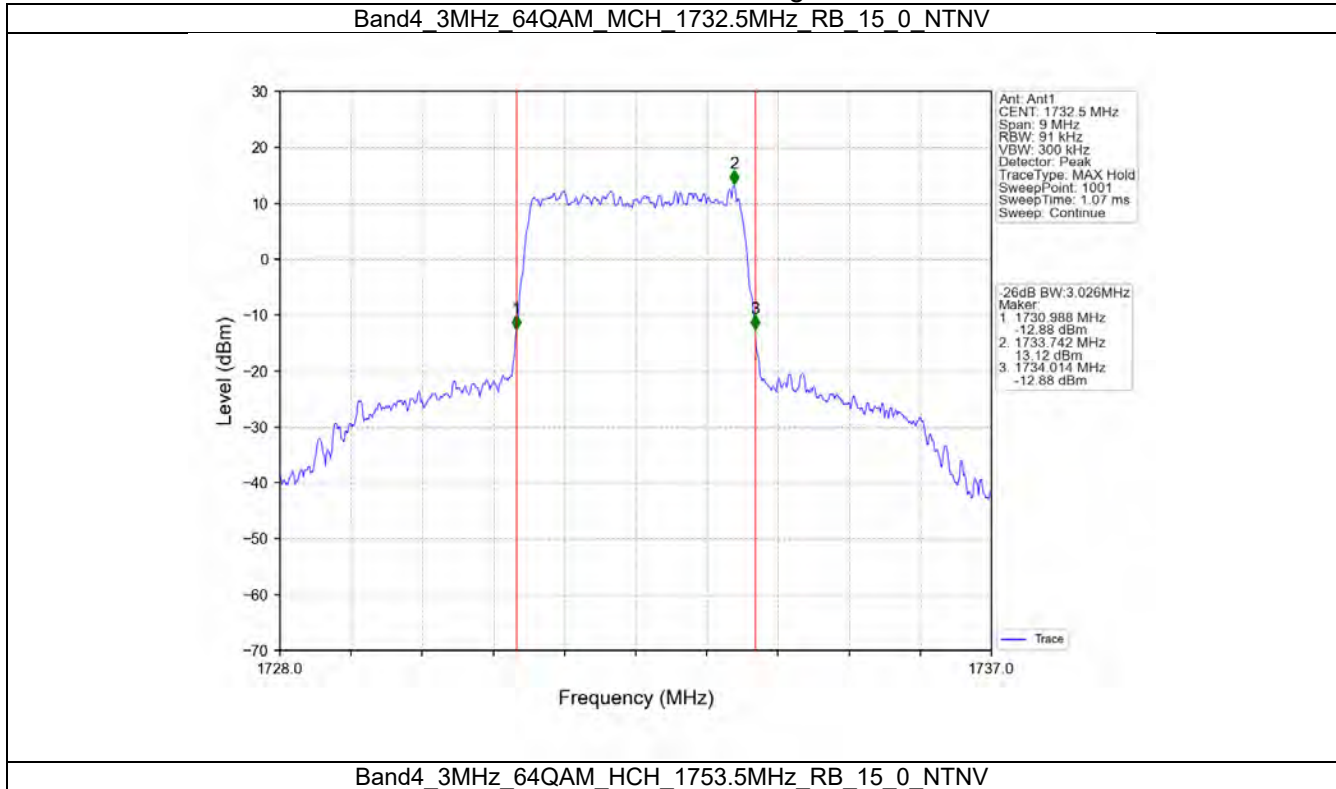
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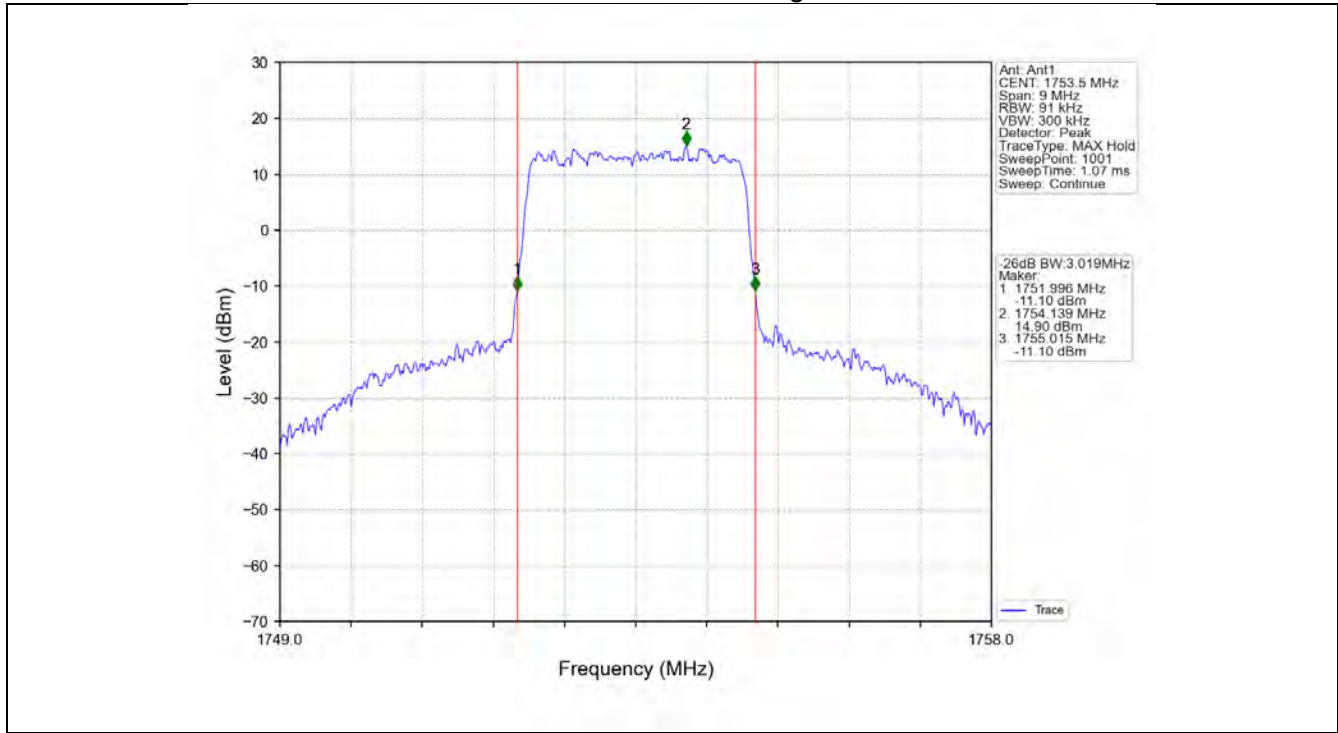
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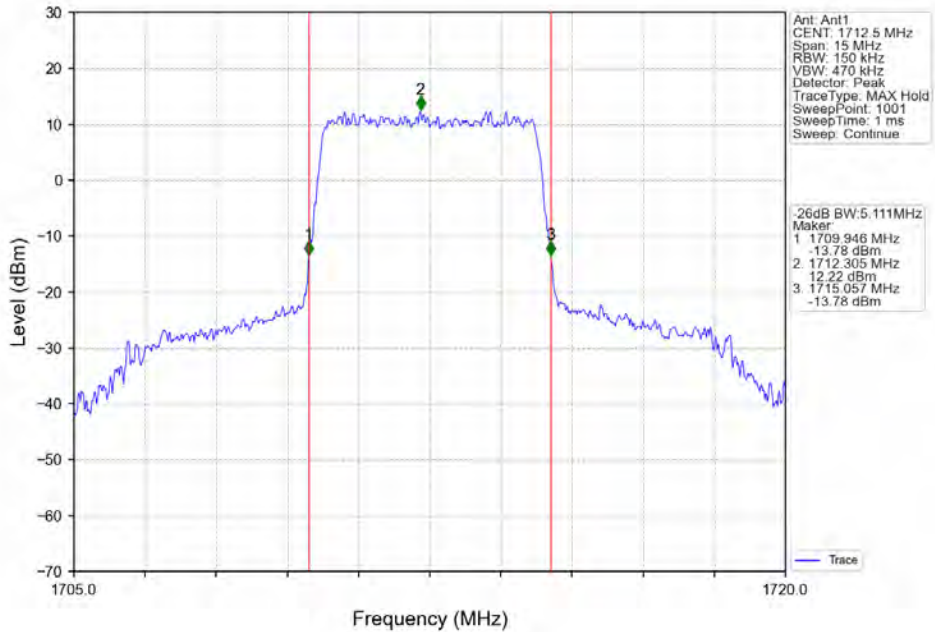


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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



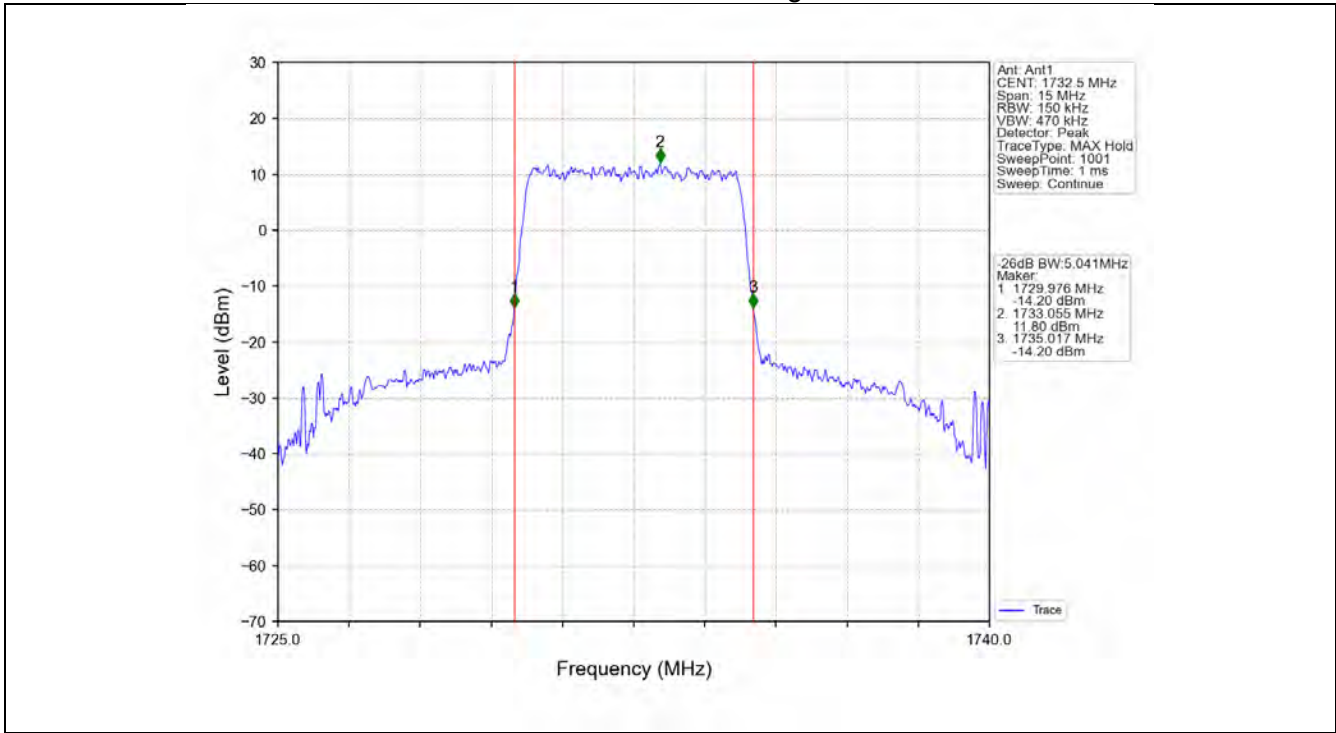
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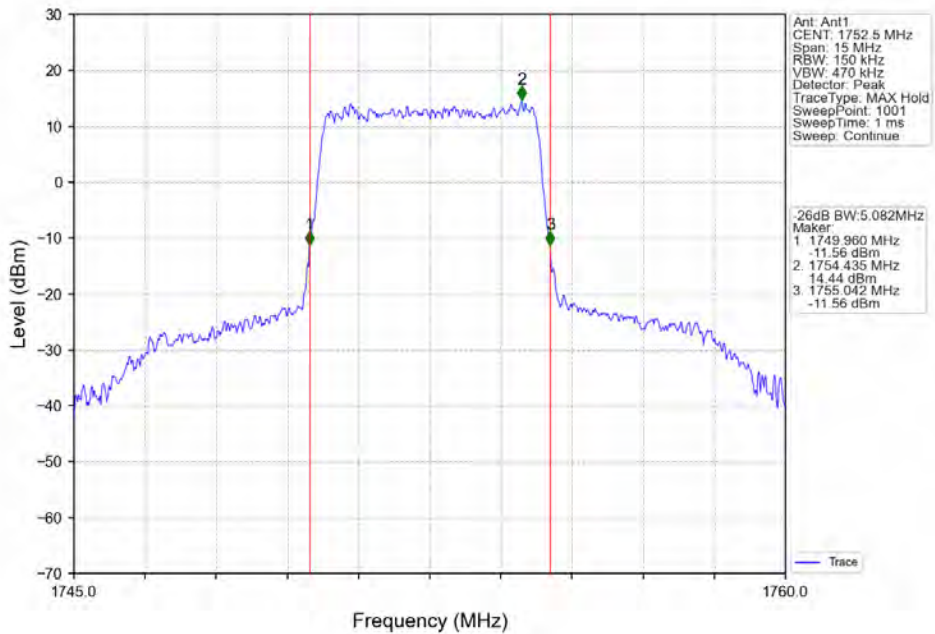


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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

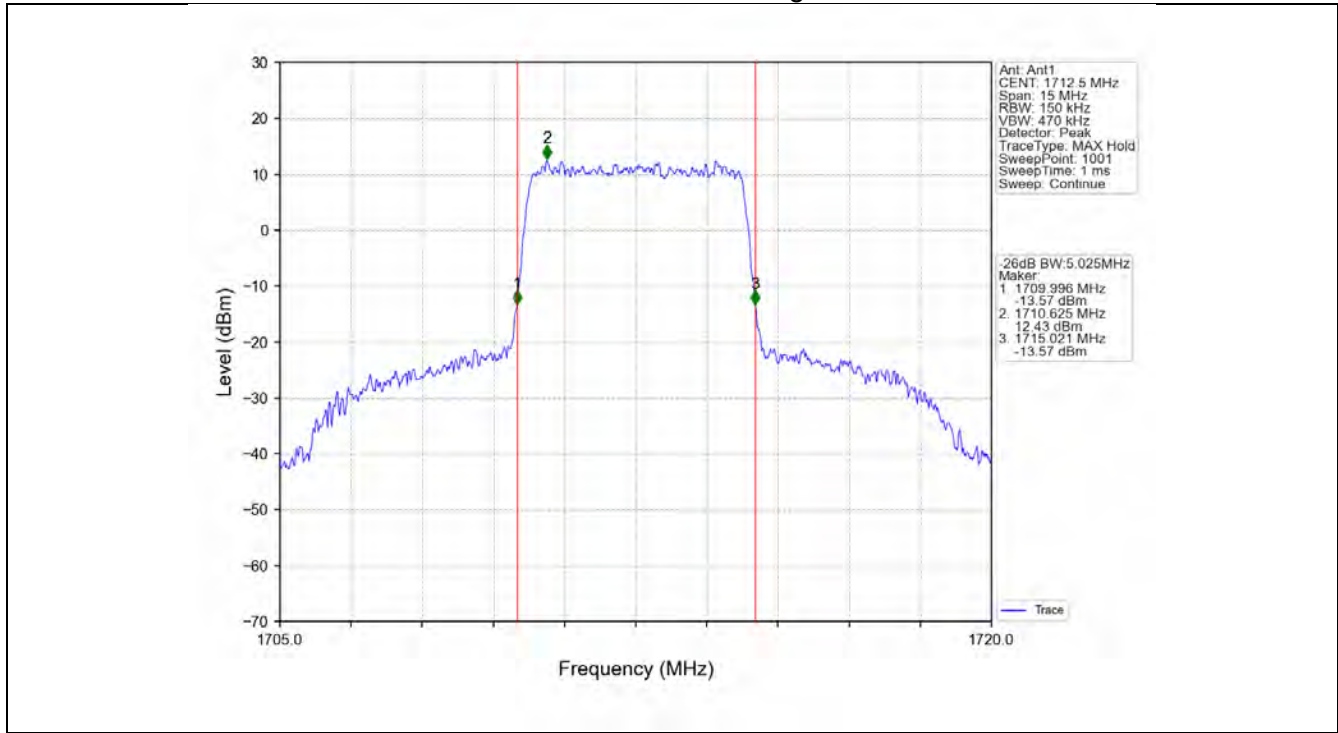


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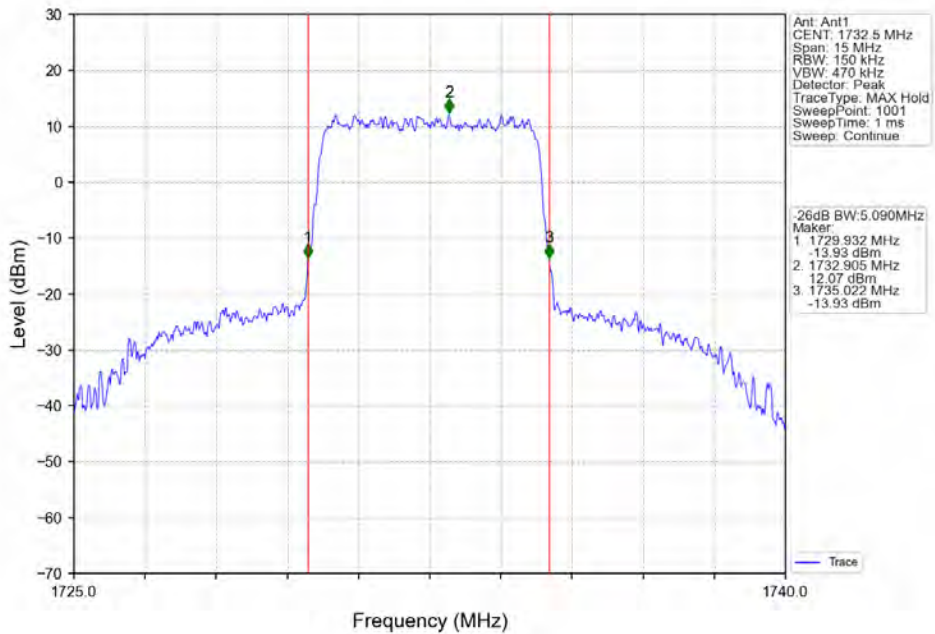


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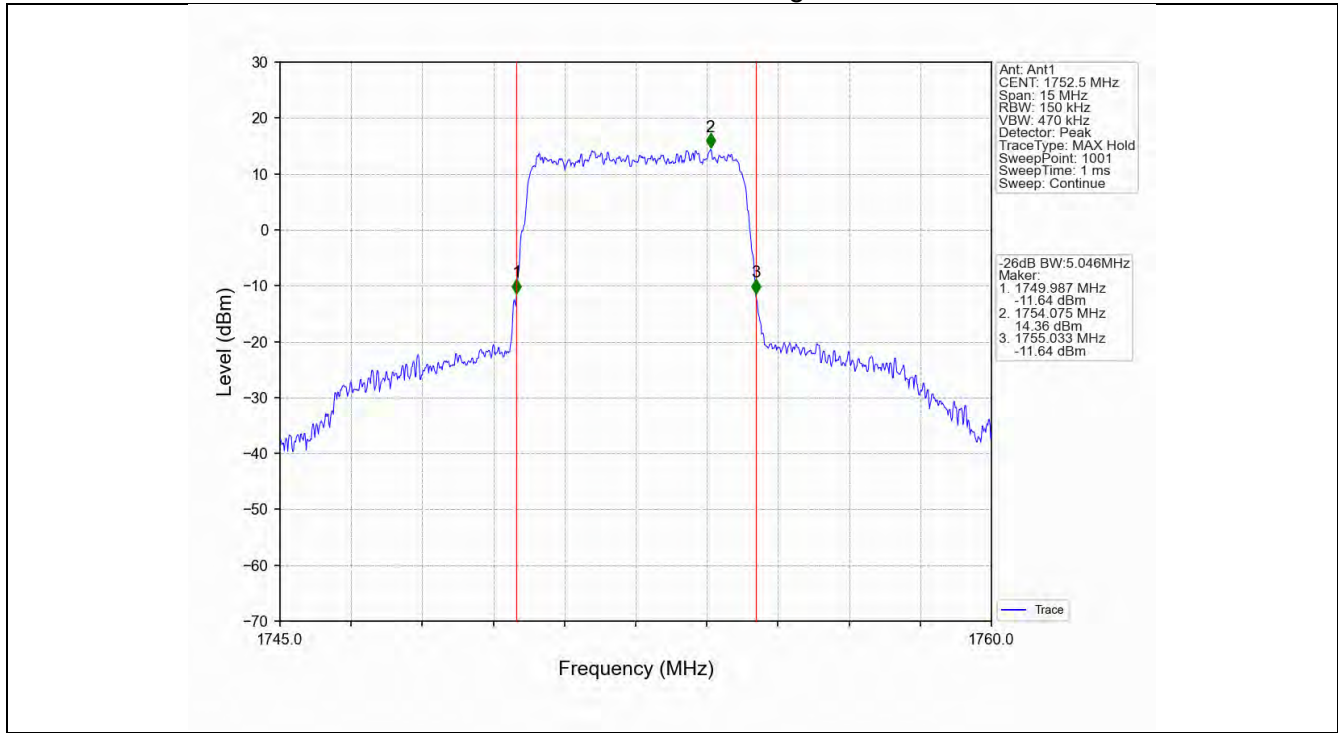
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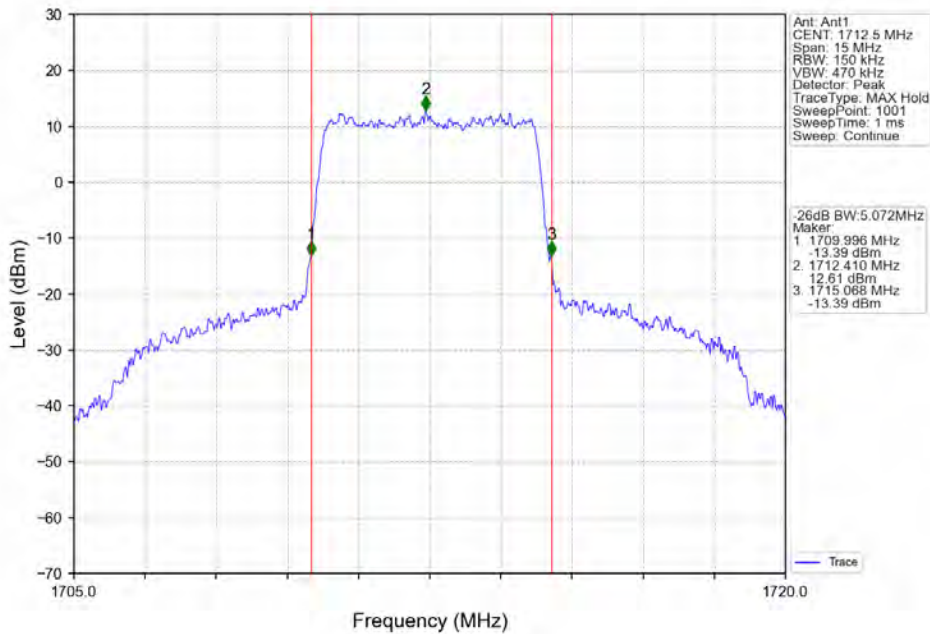


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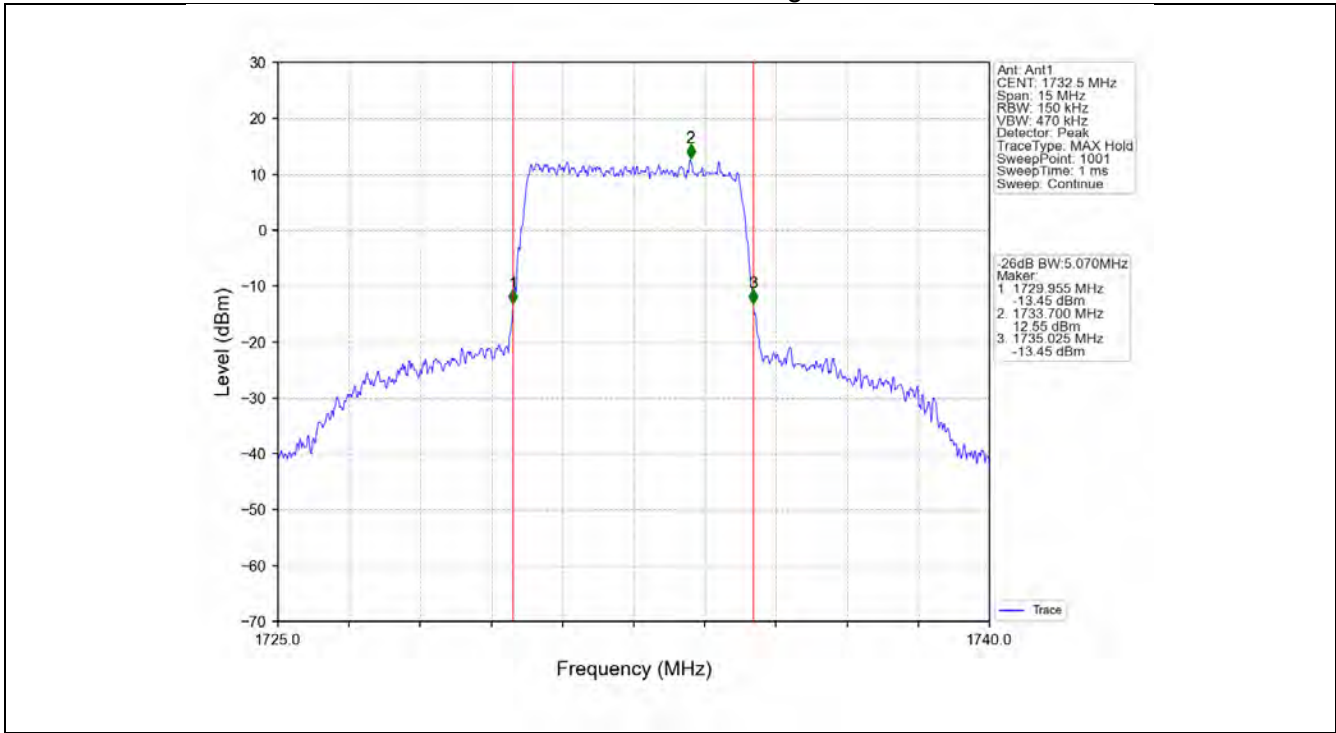


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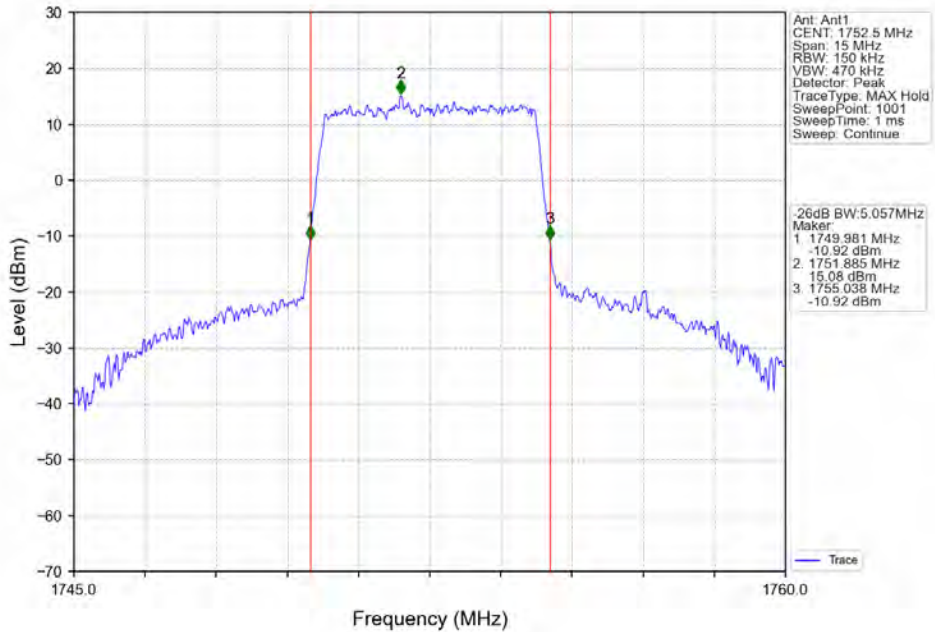


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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



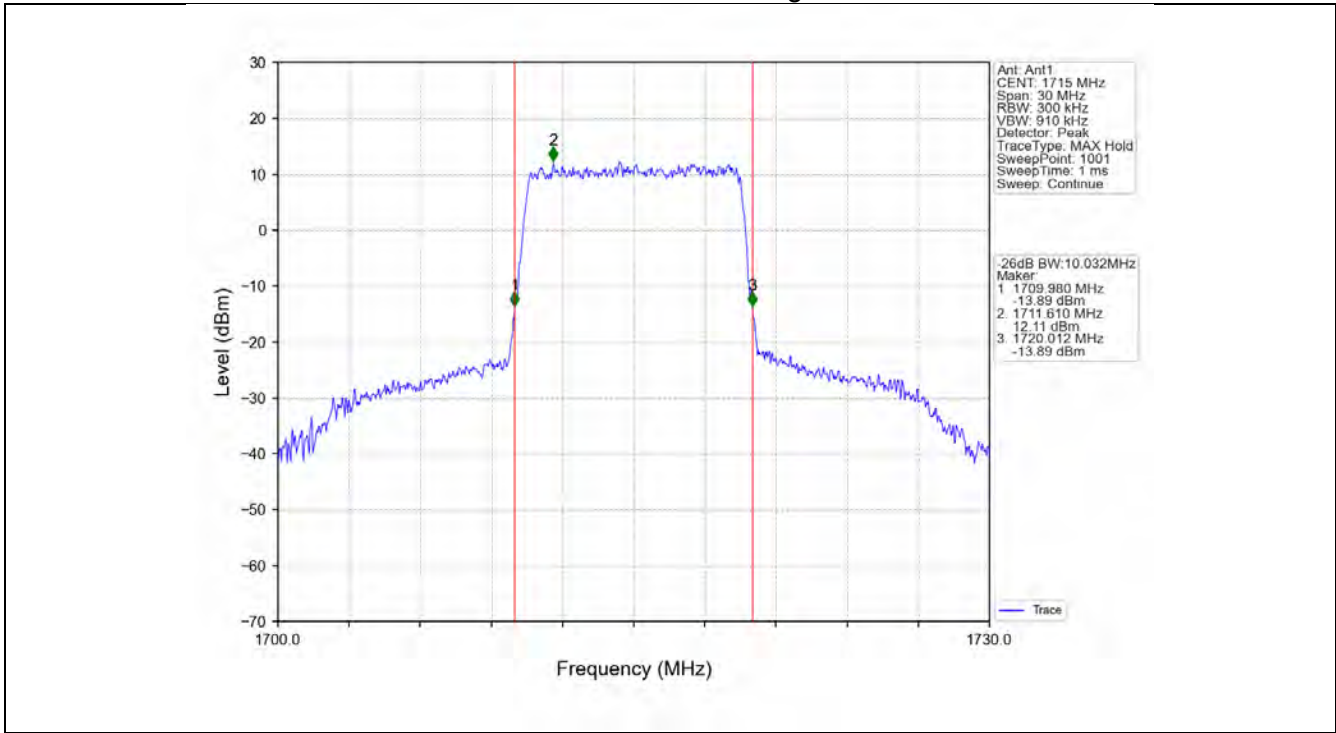
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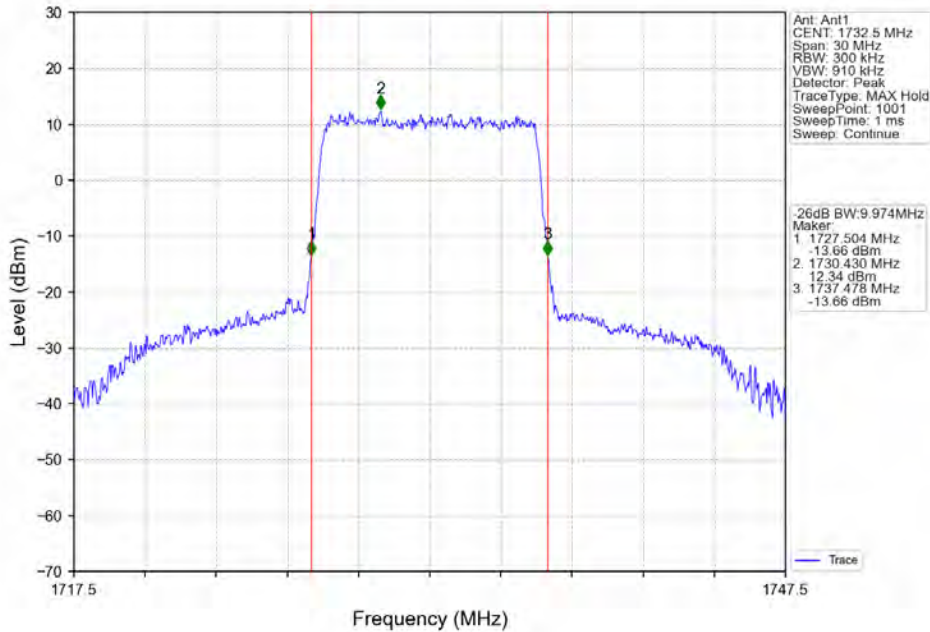


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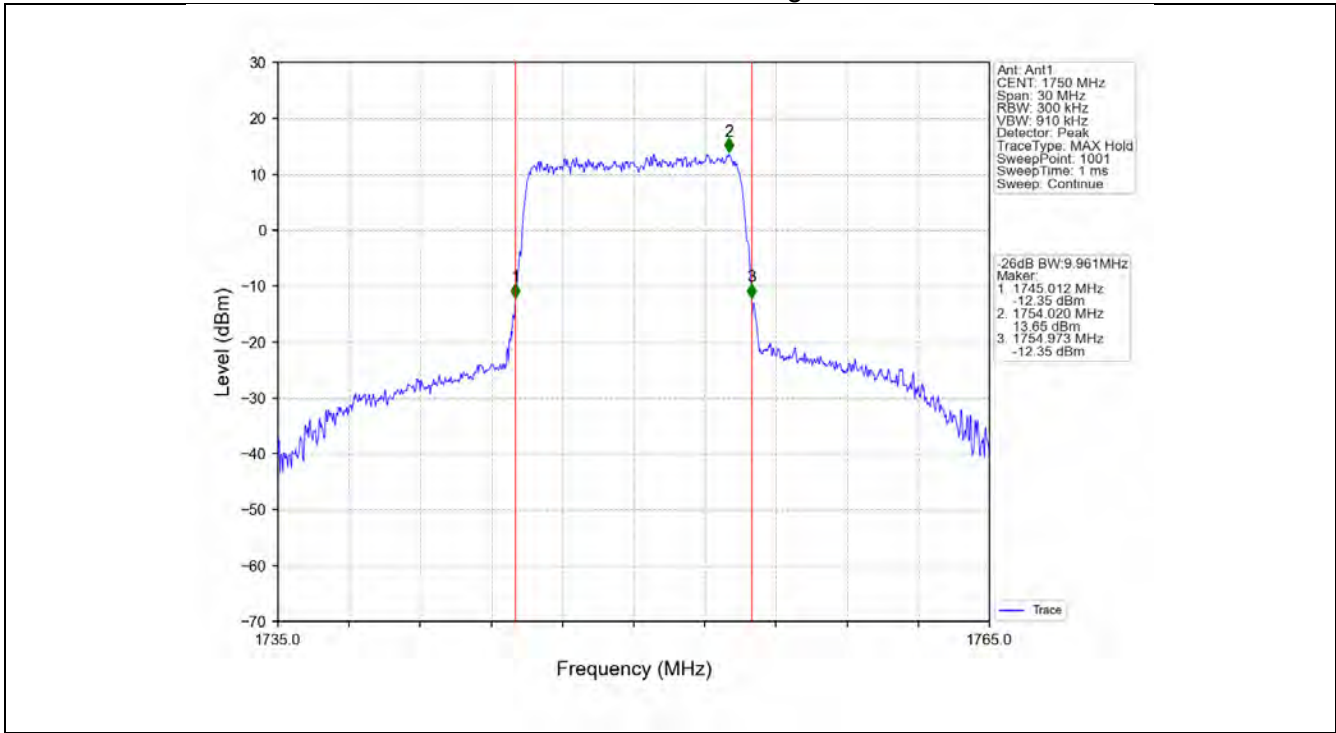
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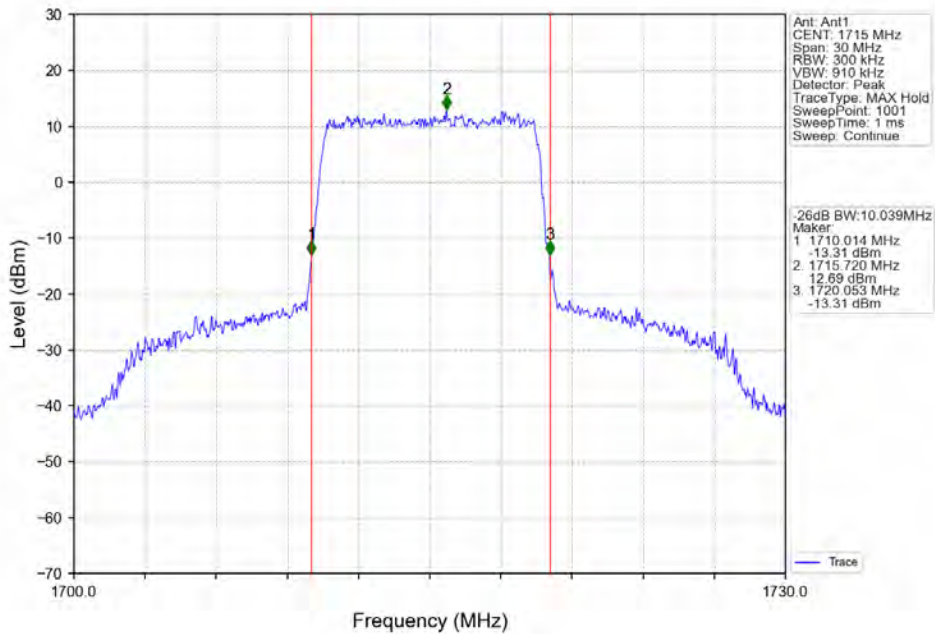


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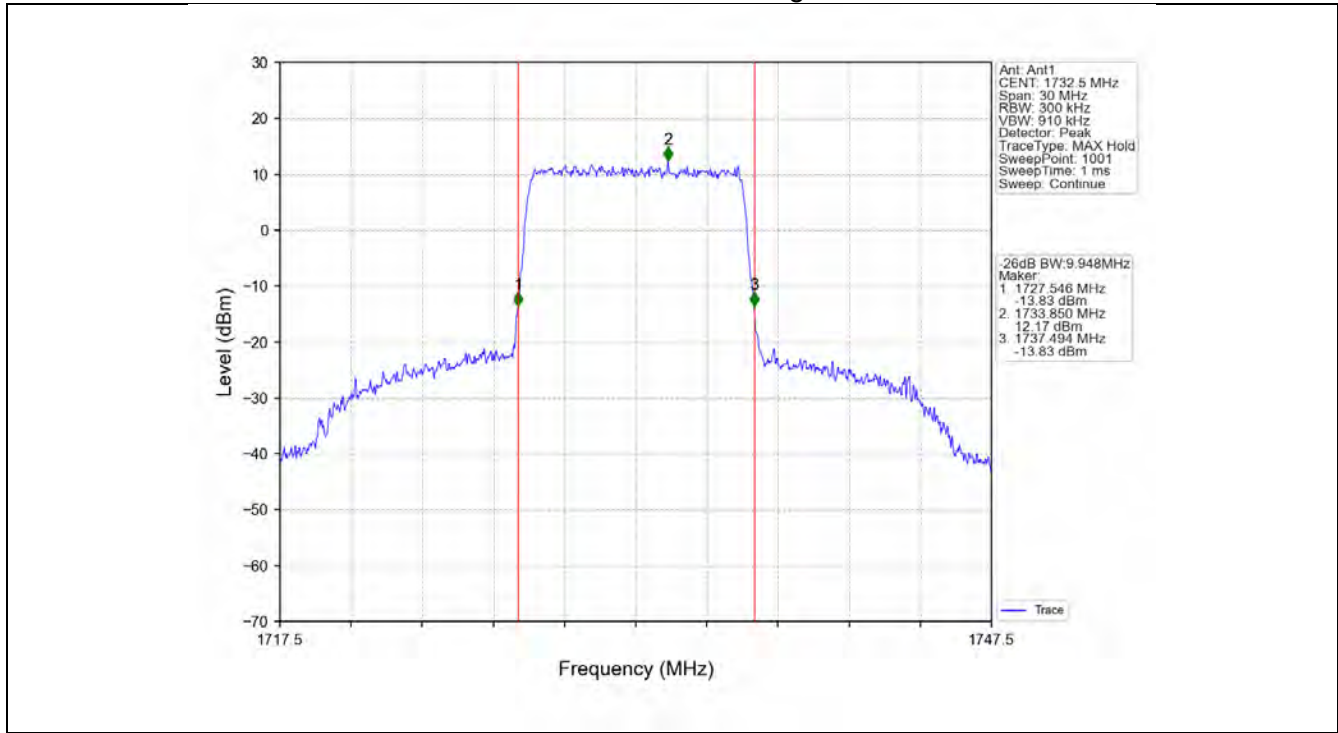
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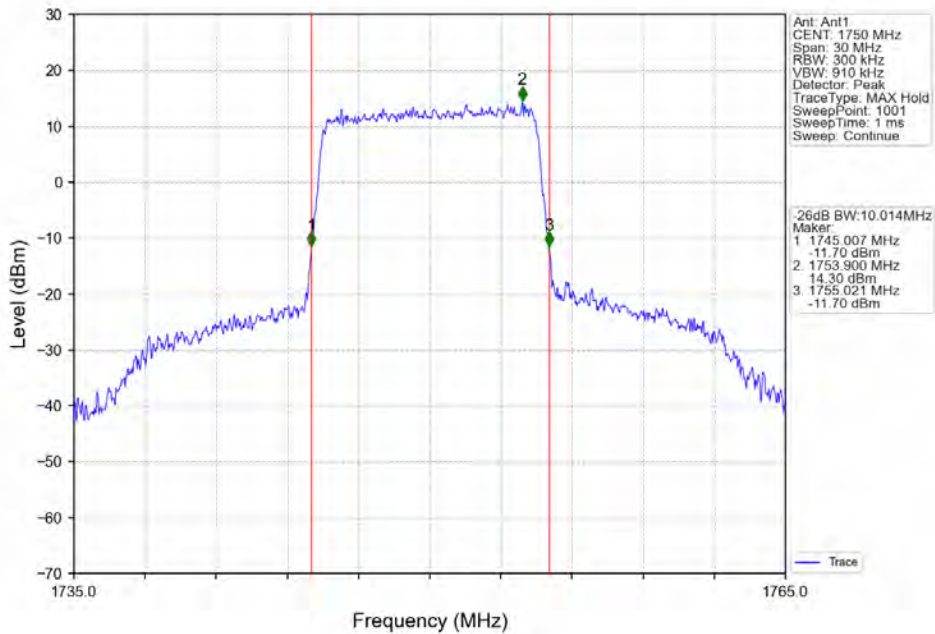


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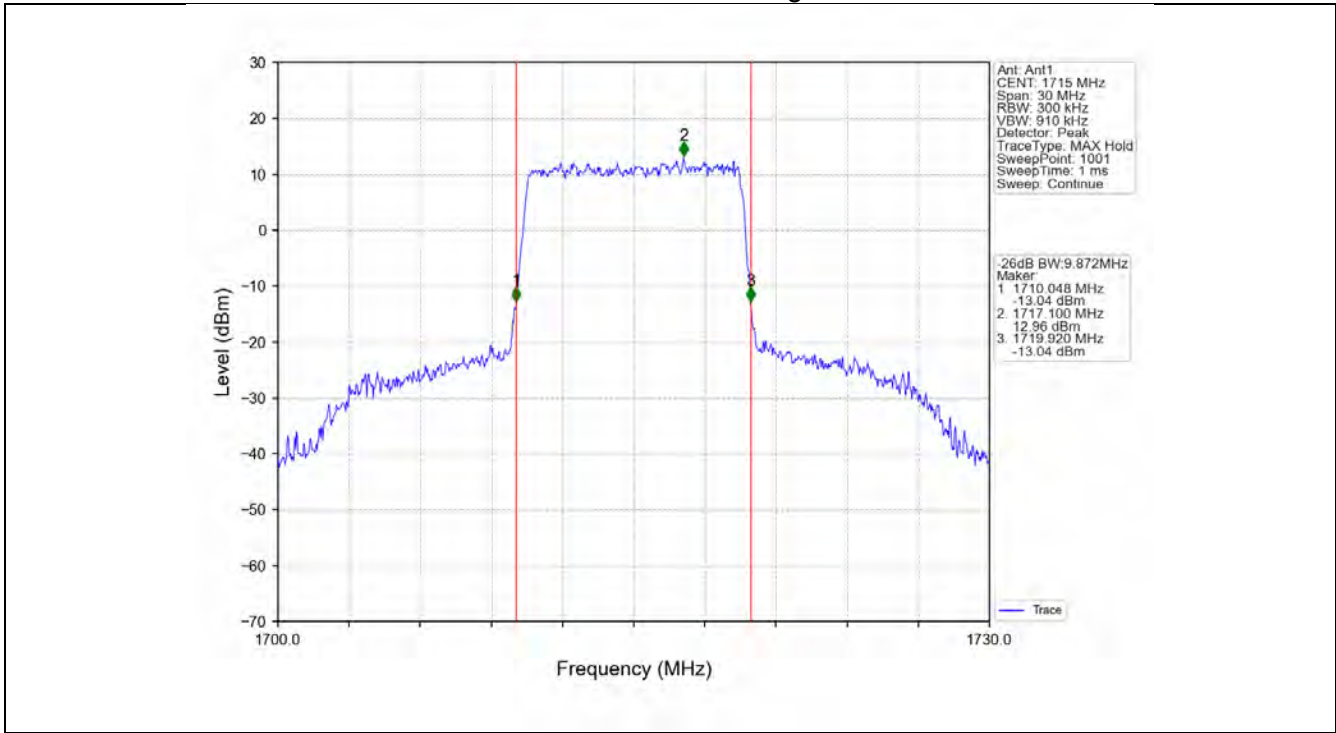
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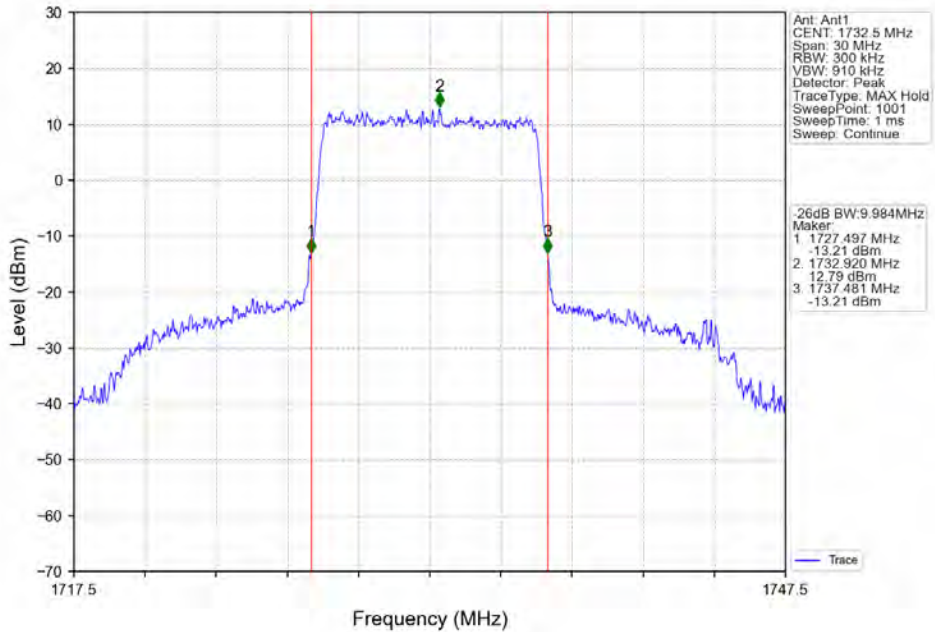


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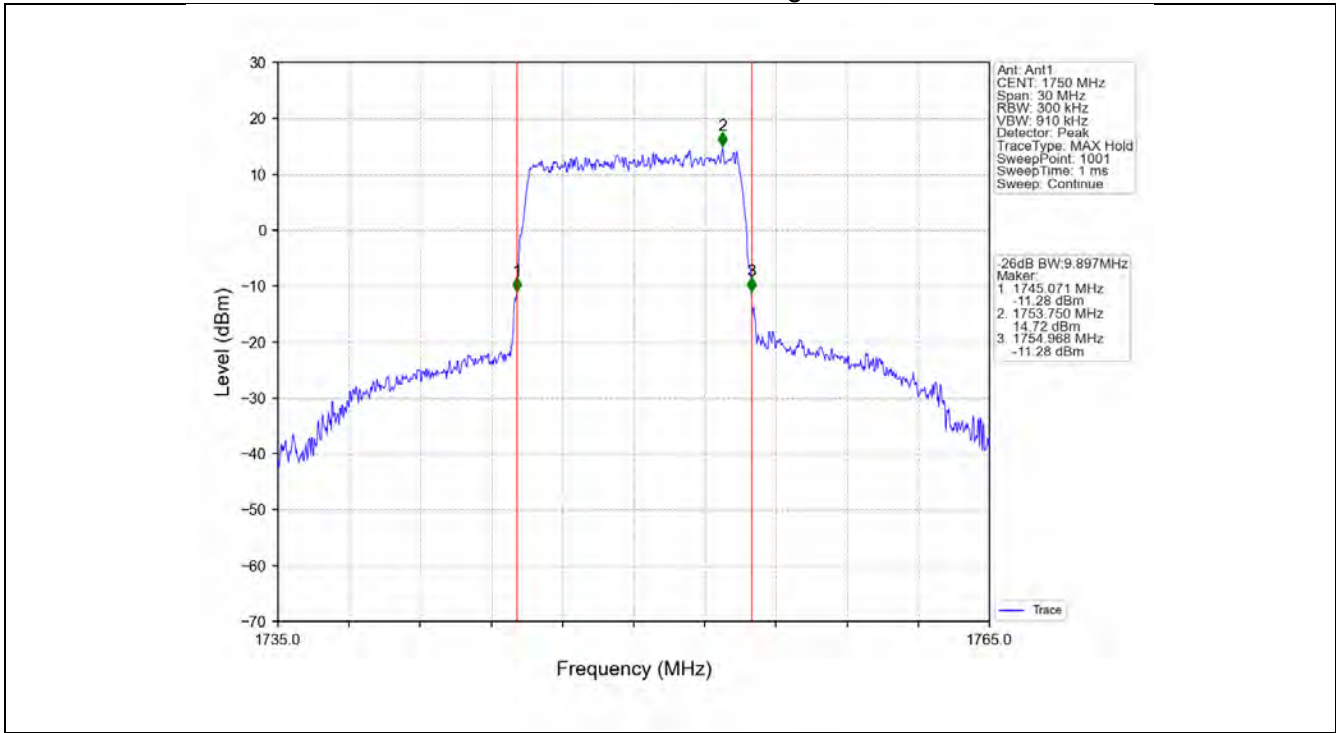
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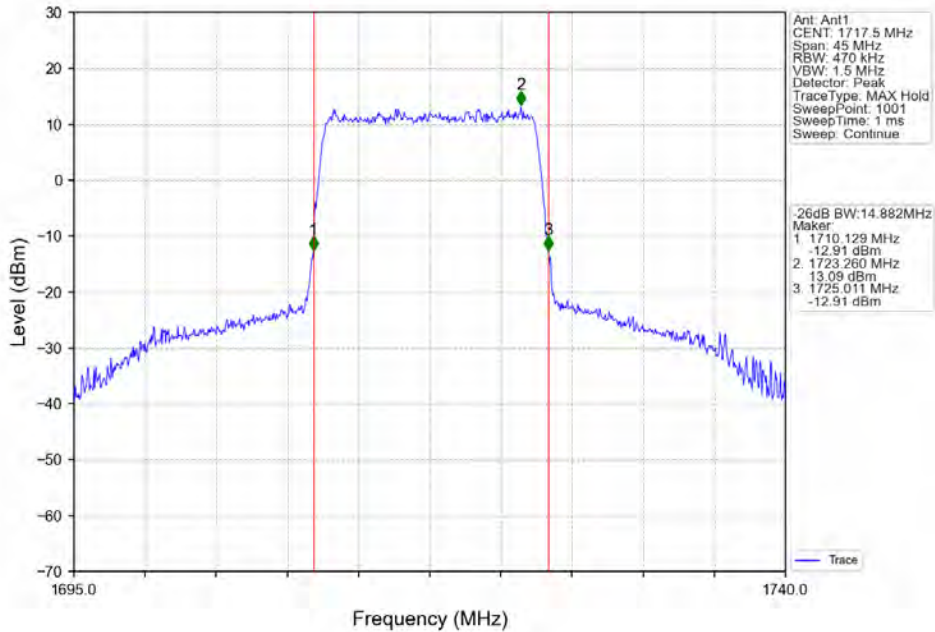


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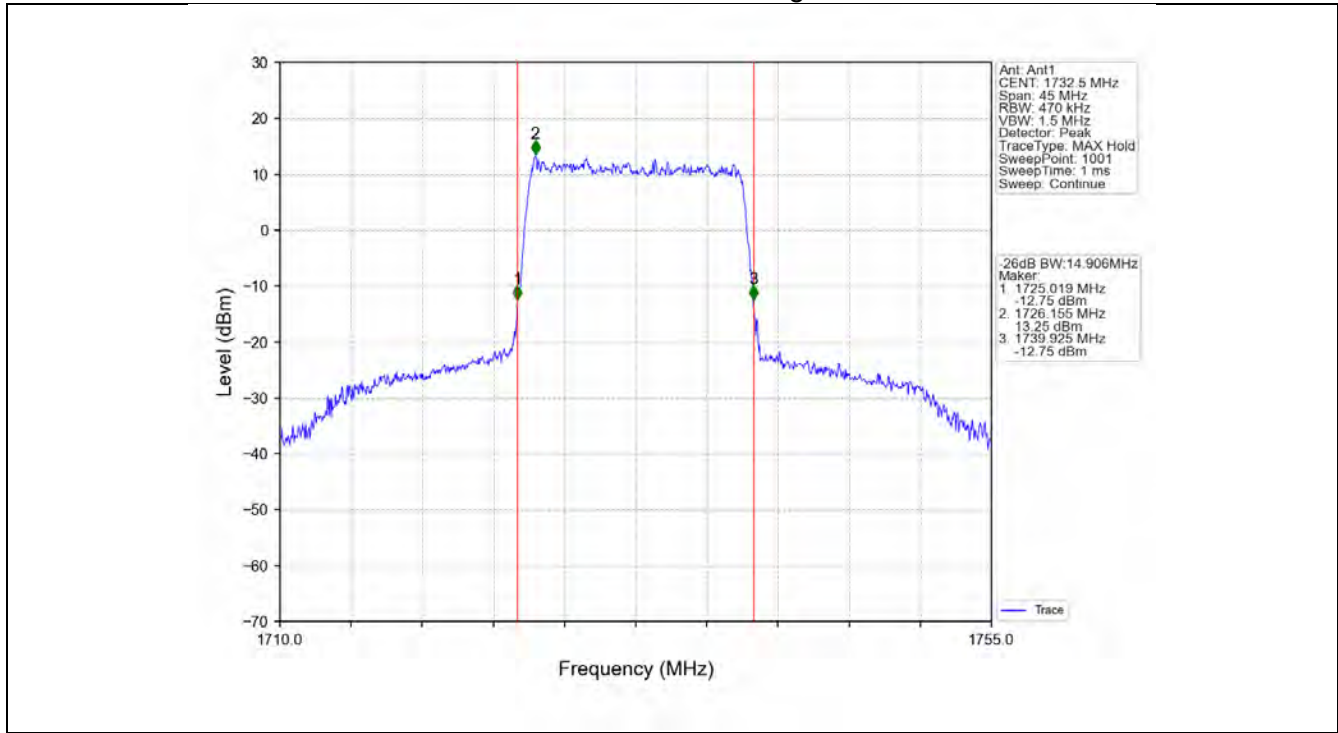


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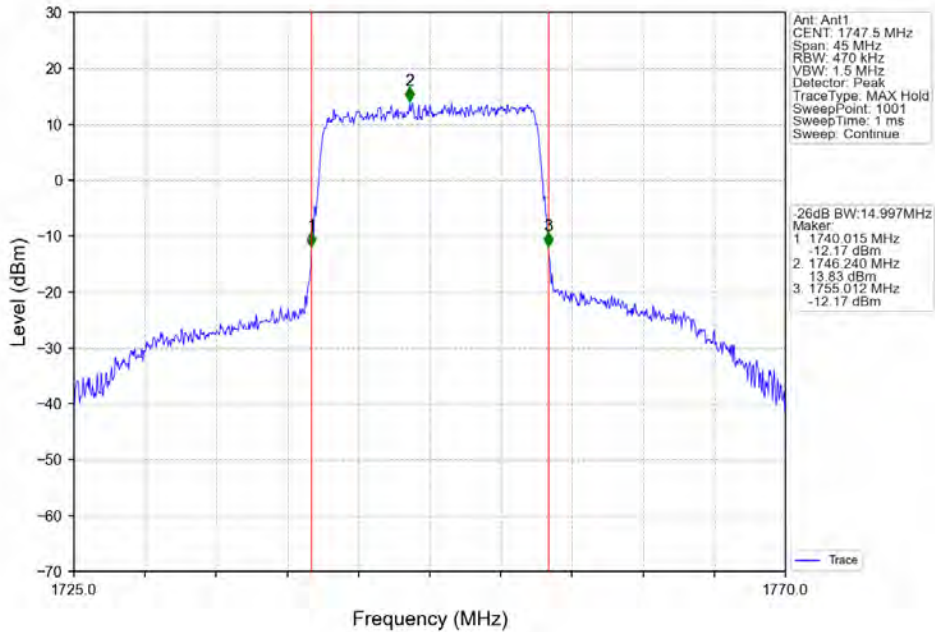


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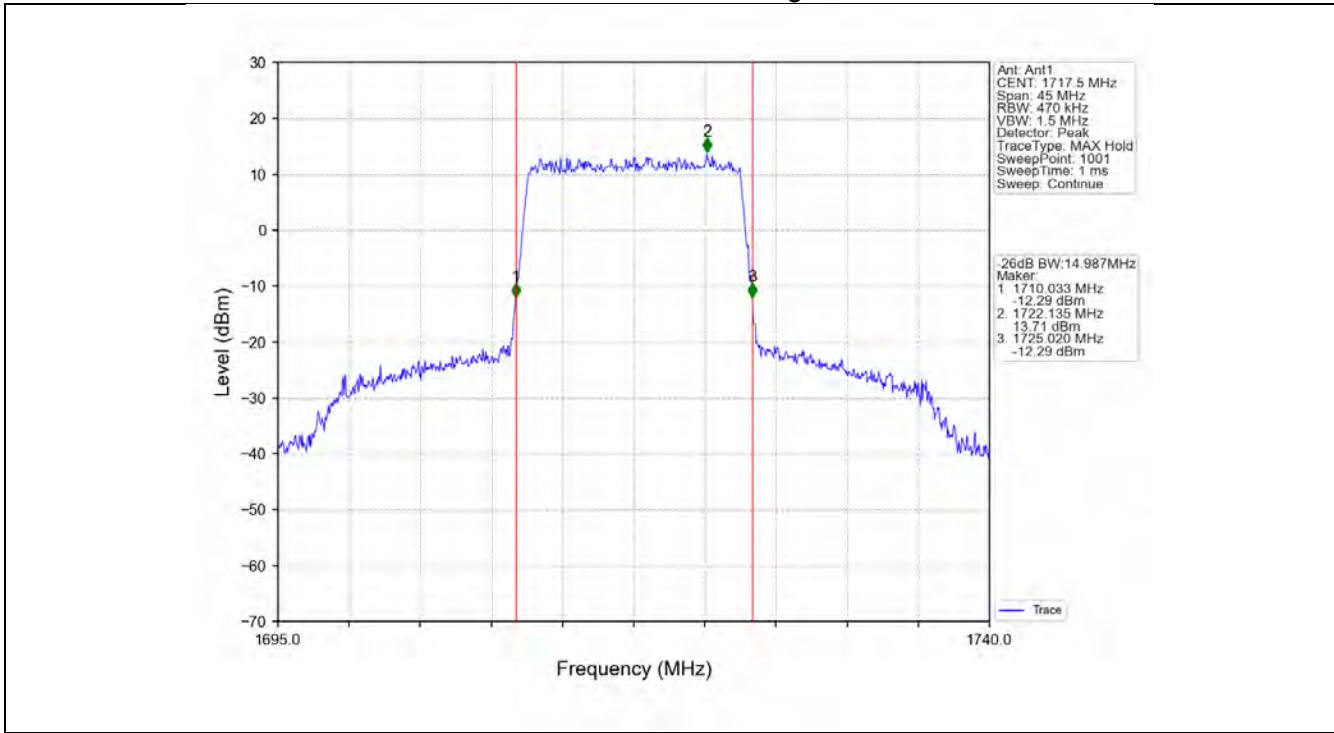
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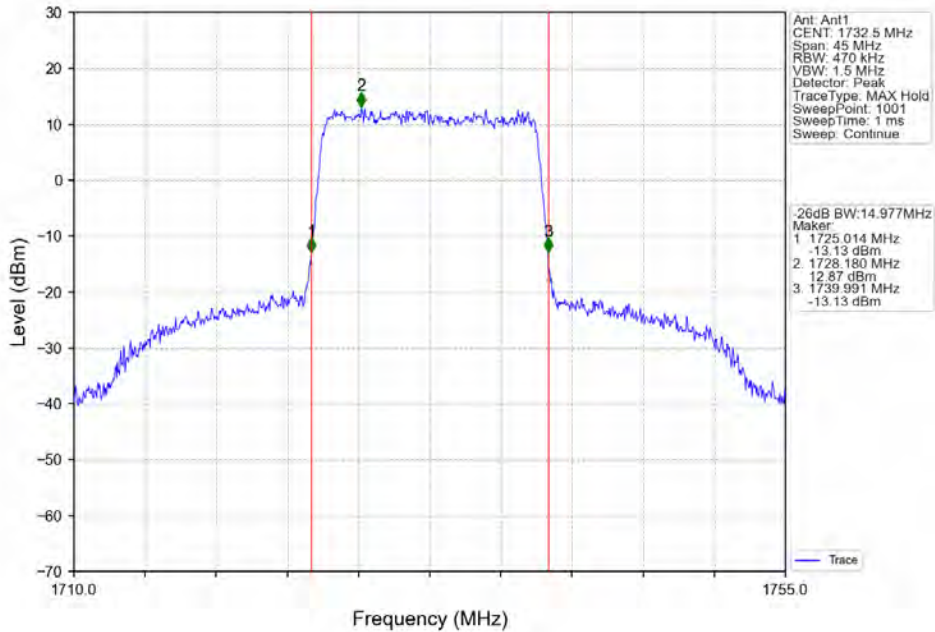


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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

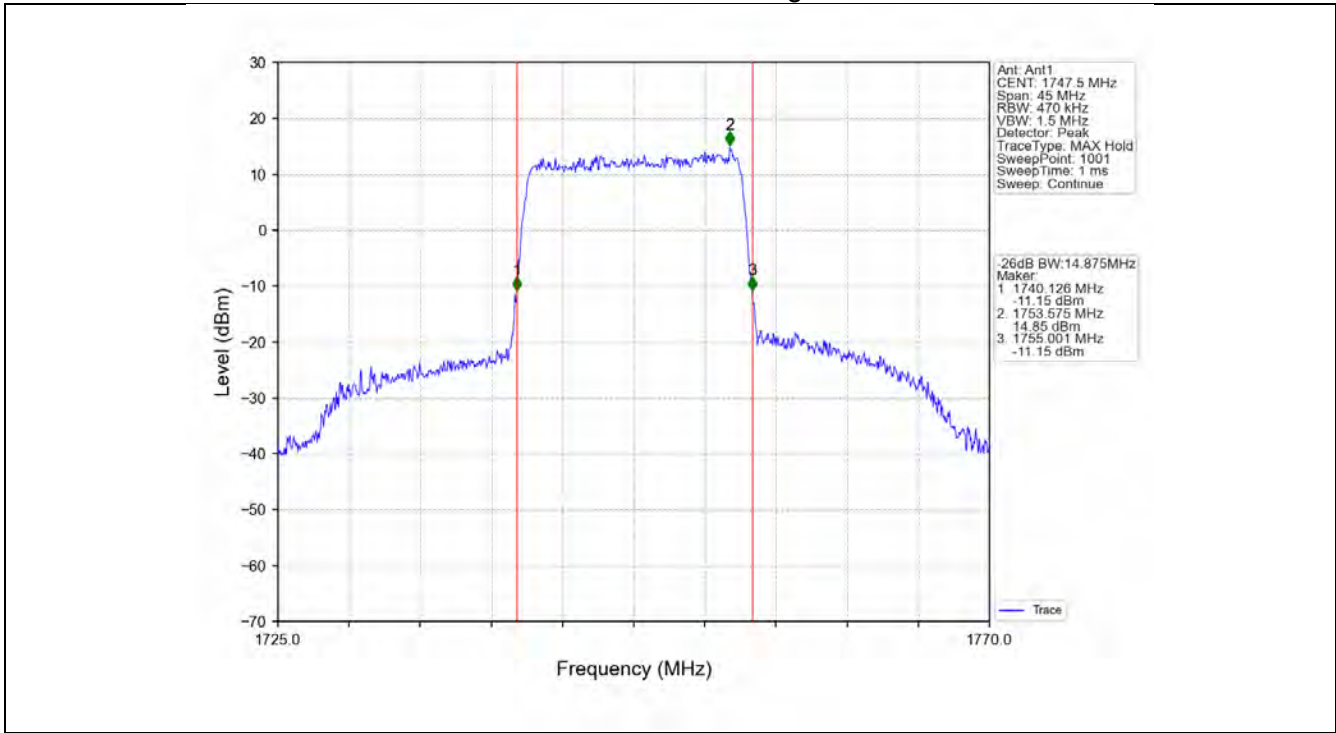


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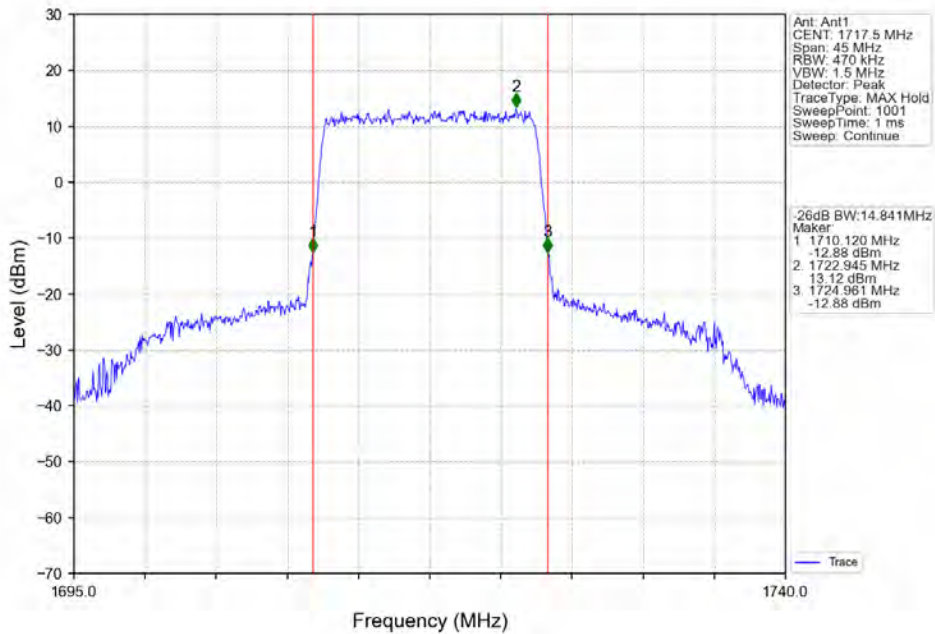


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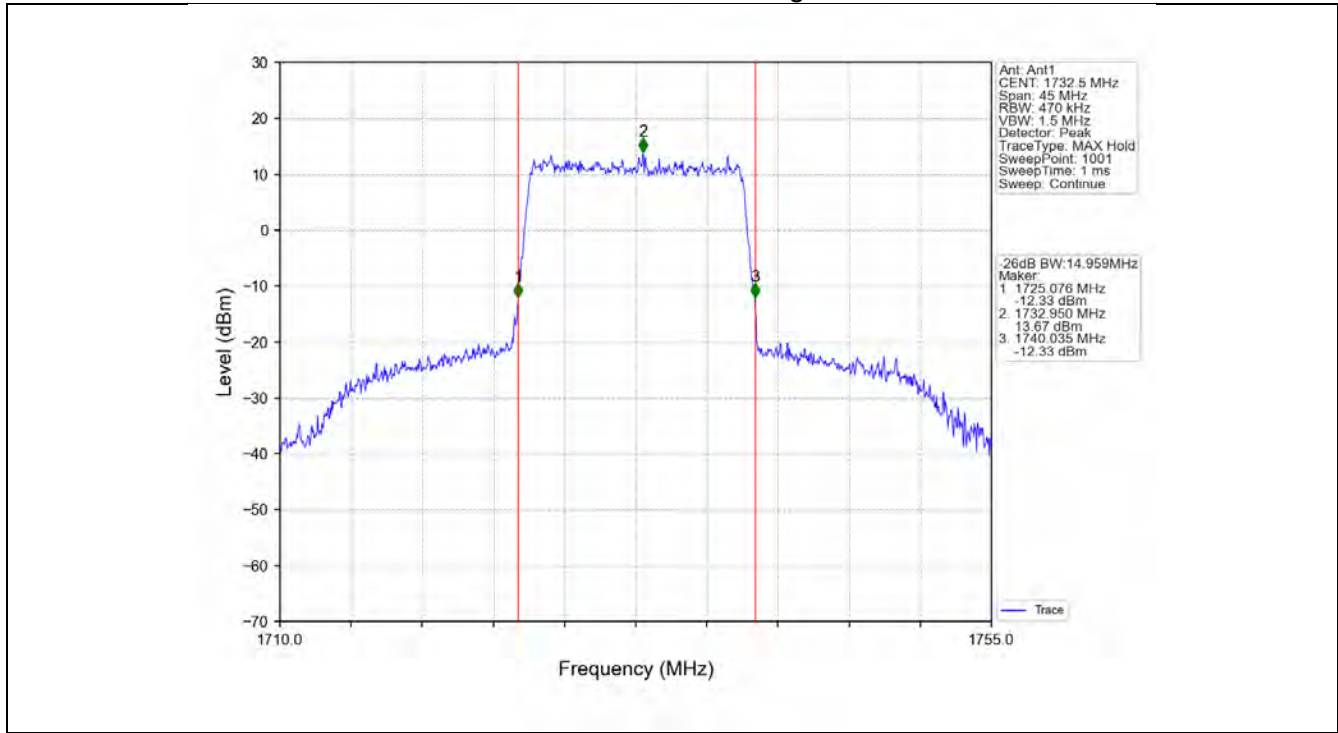
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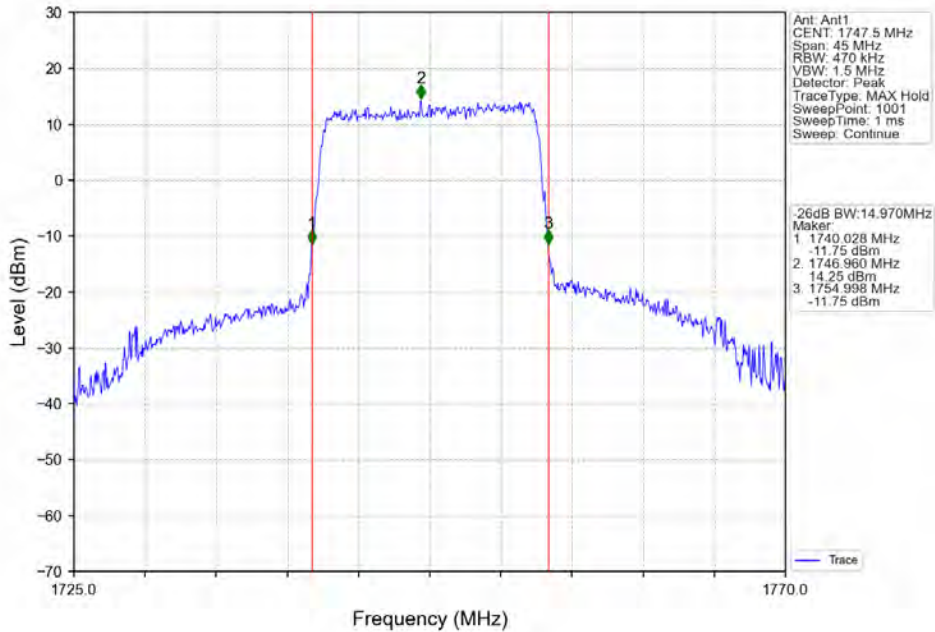


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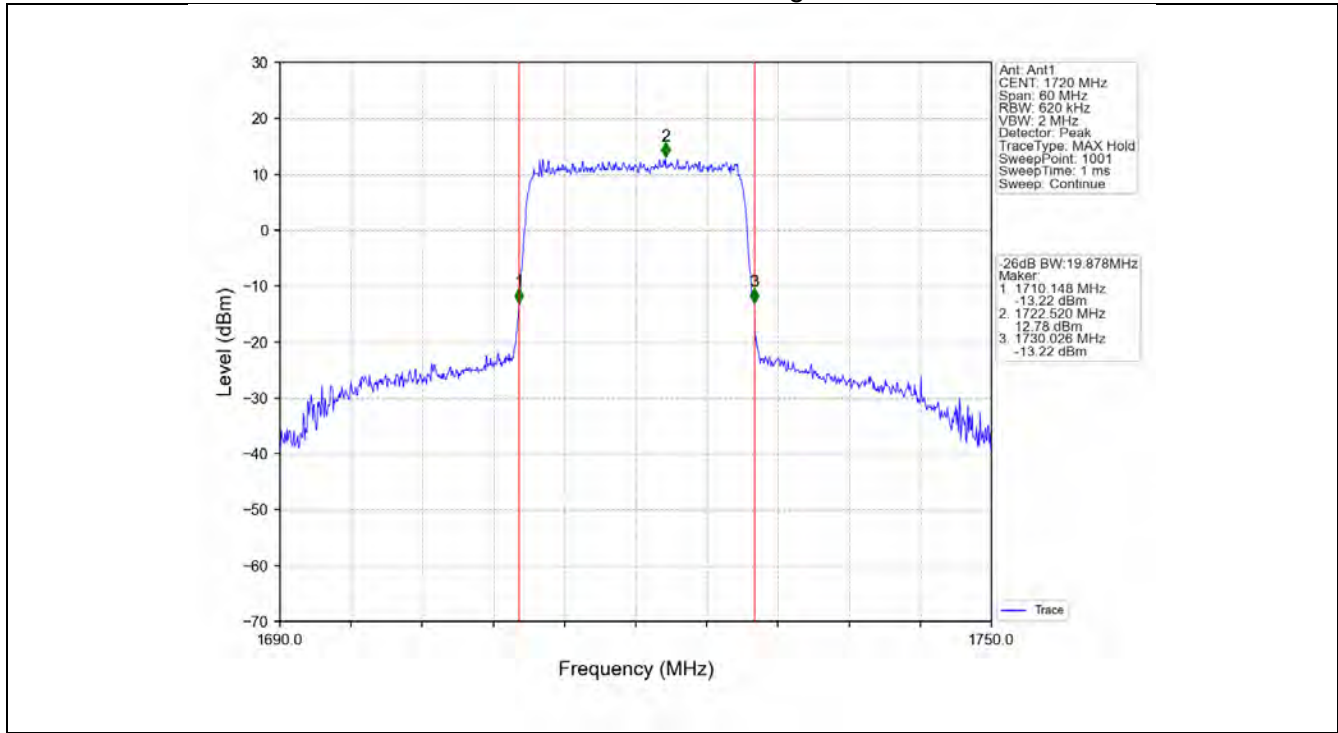
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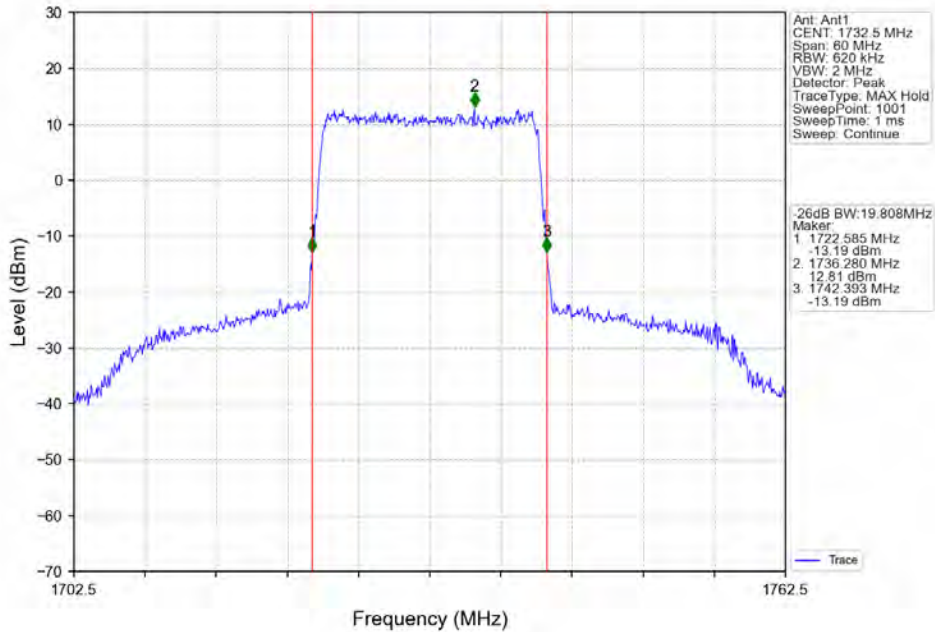


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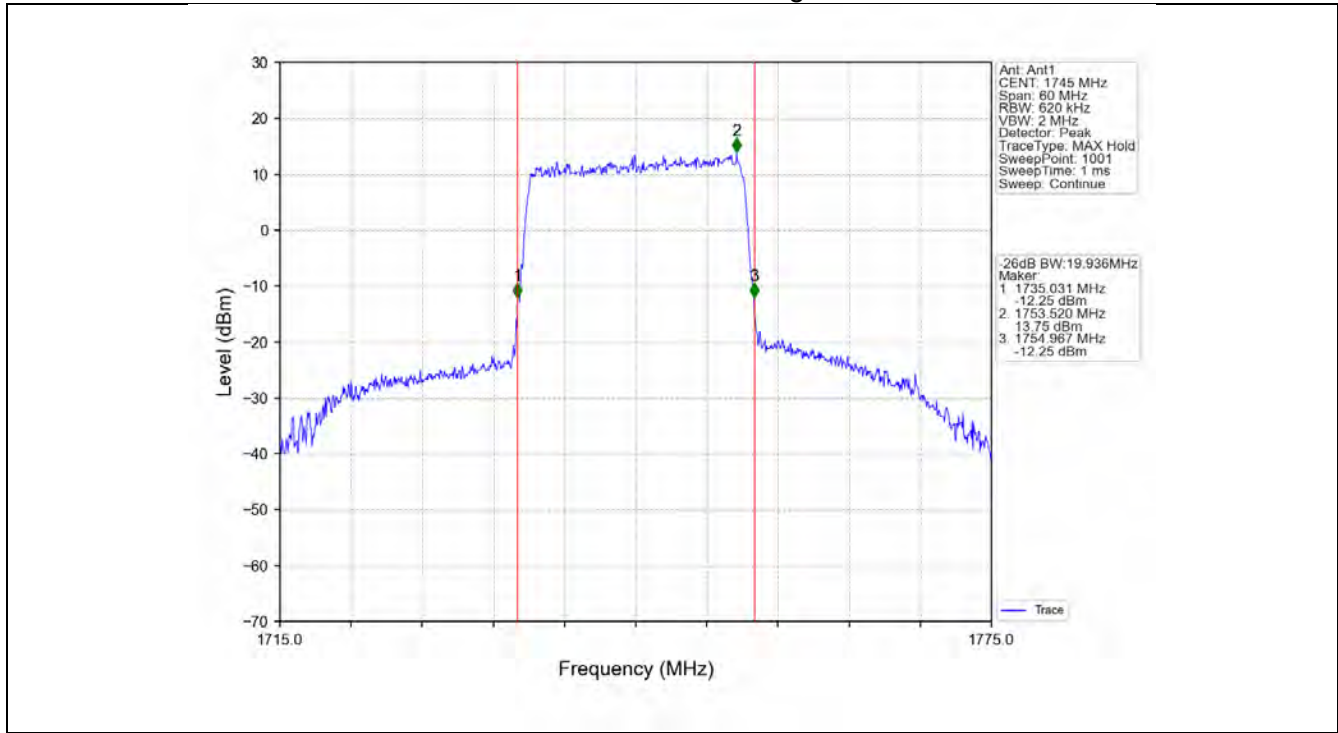
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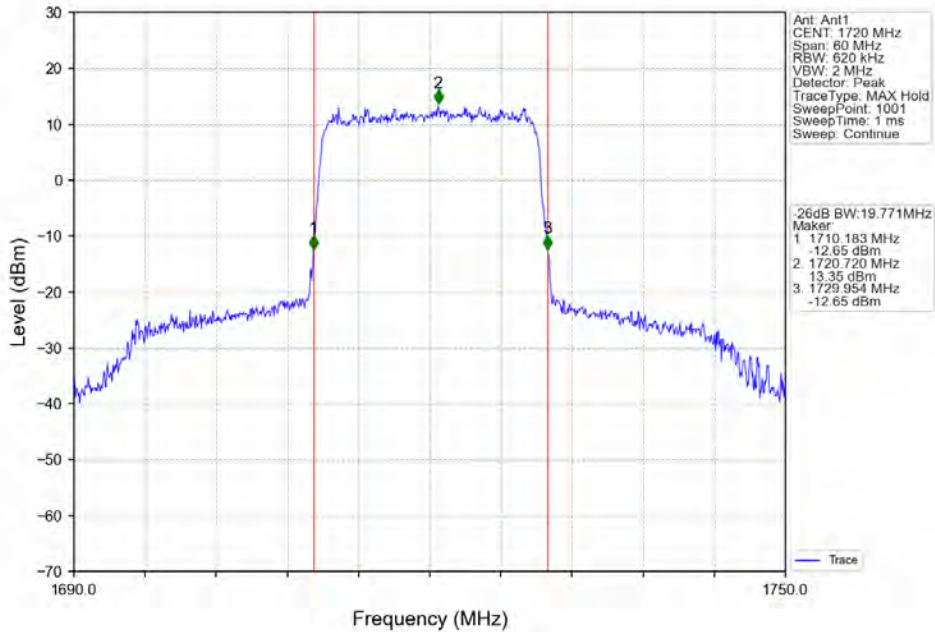


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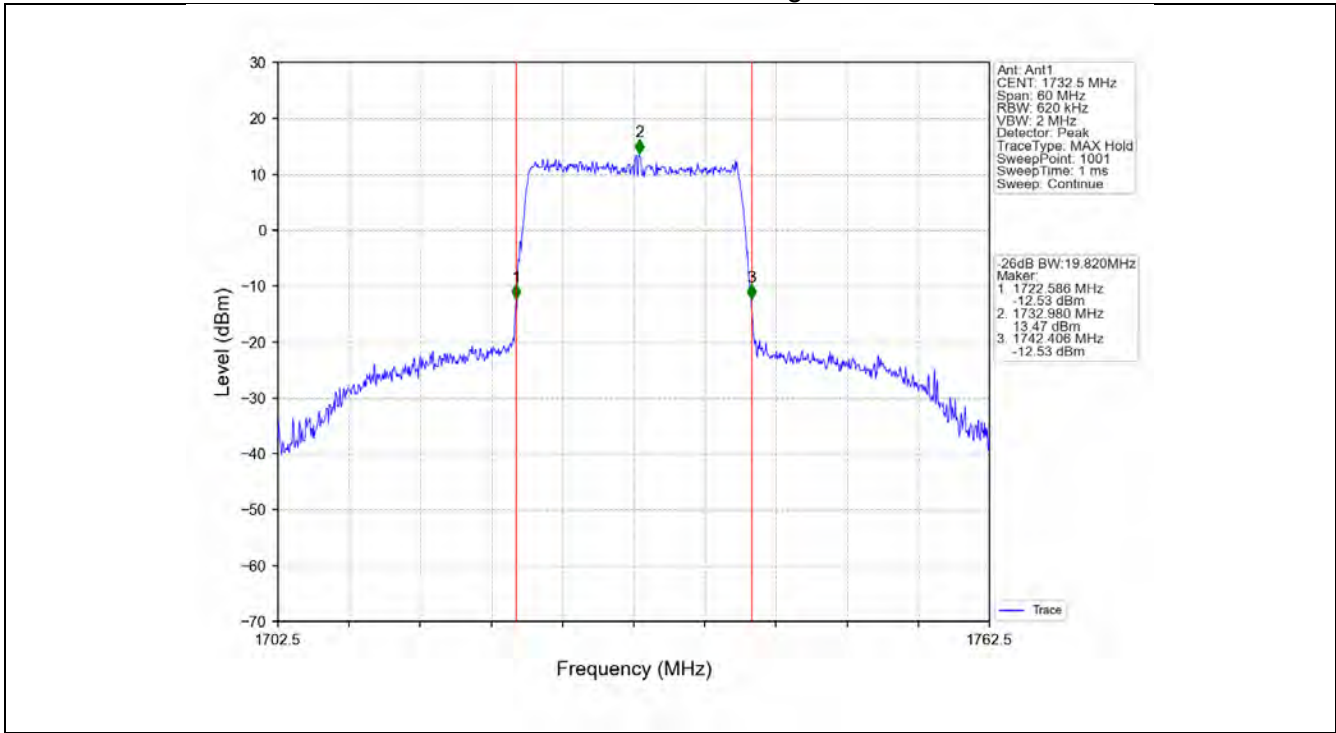
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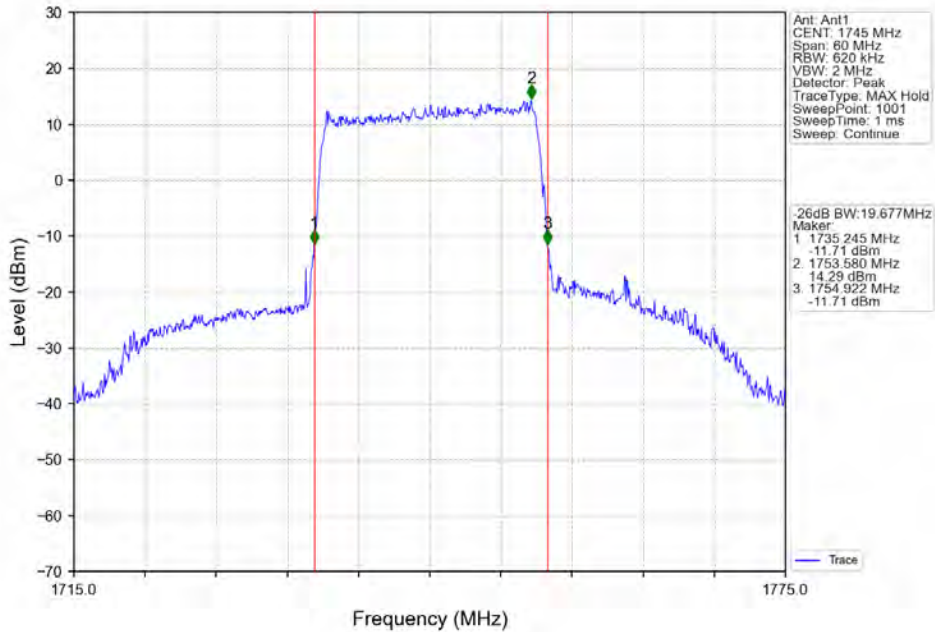


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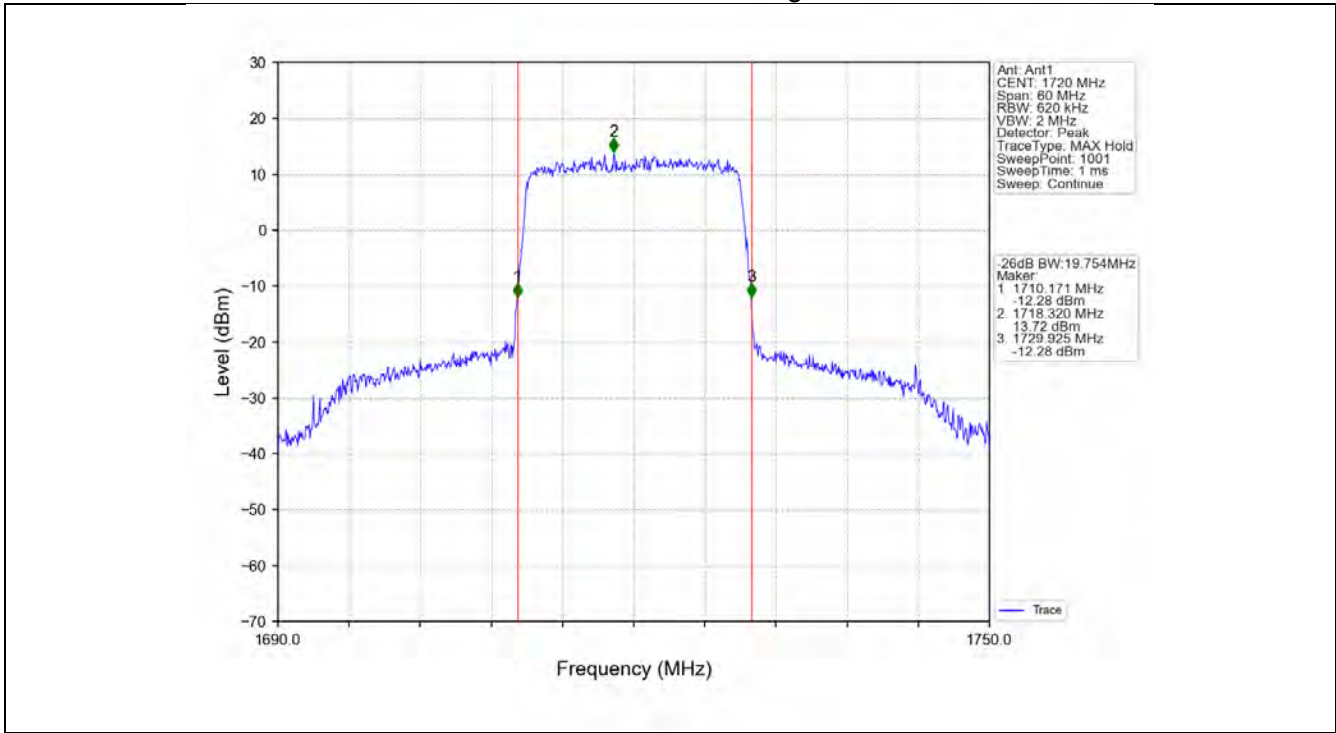
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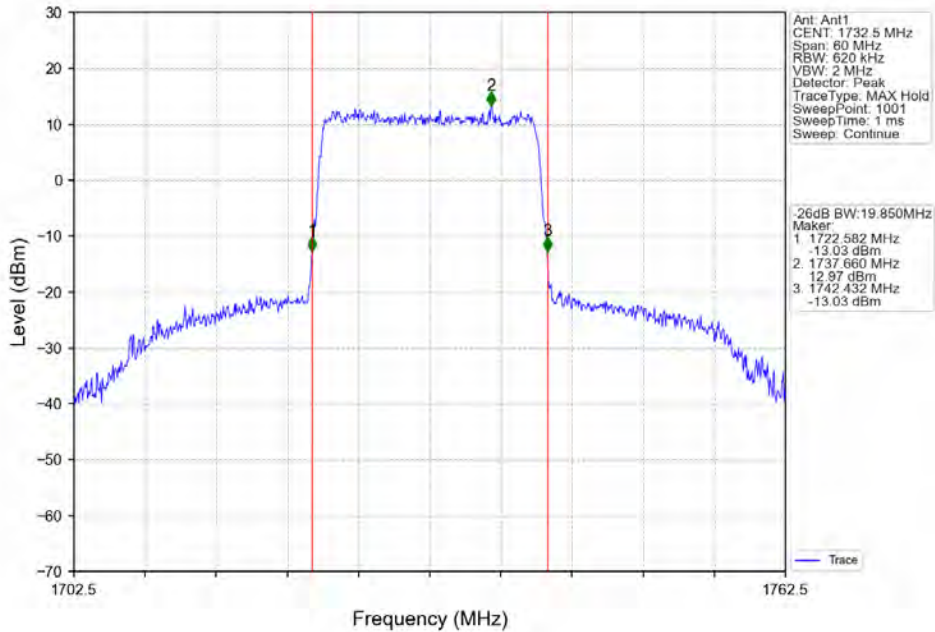


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Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV

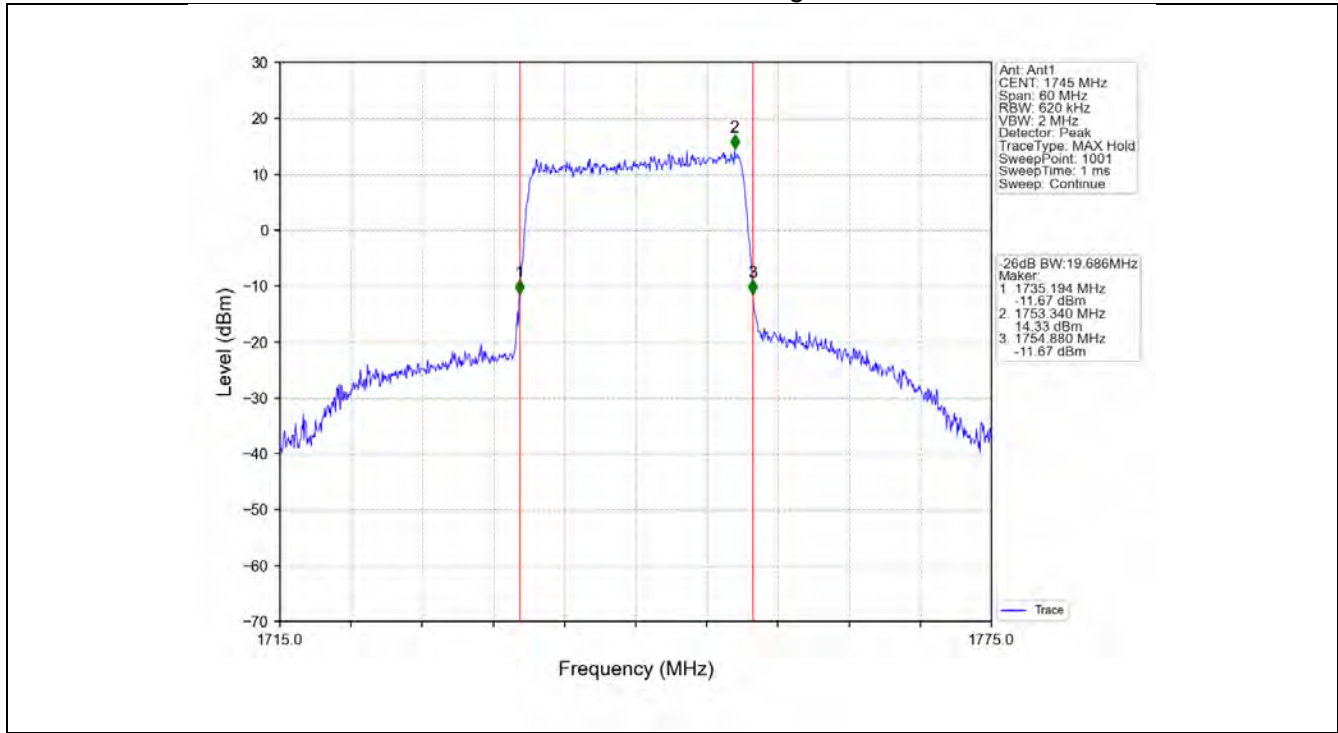


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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 6.35 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 6.40 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 6.23 | <=13 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 7.22 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 7.09 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 6.85 | <=13 | Pass |
| 64QAM | 1710.7 | 6 | 0 | 7.00 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 7.50 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 7.03 | <=13 | Pass |

4.2 B4_3MHz

4.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 6.34 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 6.34 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 6.29 | <=13 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 7.18 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 7.15 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 7.00 | <=13 | Pass |
| 64QAM | 1711.5 | 15 | 0 | 7.29 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 7.36 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 7.10 | <=13 | Pass |

4.3 B4_5MHz

4.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | |
|----------------------------------|-----------|---------------|-------------------------|---------|
| Modulation | Frequency | RB Allocation | Peak-Average Ratio (dB) | Verdict |



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| | (MHz) | Size | Offset | Result | Limit | |
|-------|--------|------|--------|--------|-------|------|
| QPSK | 1712.5 | 25 | 0 | 6.27 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 6.27 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 6.15 | <=13 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 6.95 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 6.96 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 6.87 | <=13 | Pass |
| 64QAM | 1712.5 | 25 | 0 | 7.12 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 7.11 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 7.00 | <=13 | Pass |

4.4 B4_10MHz

4.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 6.13 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 6.14 | <=13 | Pass |
| | 1750 | 50 | 0 | 6.06 | <=13 | Pass |
| 16QAM | 1715 | 50 | 0 | 6.87 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 6.93 | <=13 | Pass |
| | 1750 | 50 | 0 | 6.85 | <=13 | Pass |
| 64QAM | 1715 | 50 | 0 | 7.04 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 7.11 | <=13 | Pass |
| | 1750 | 50 | 0 | 6.98 | <=13 | Pass |

4.5 B4_15MHz

4.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 6.58 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 6.64 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 6.55 | <=13 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 7.00 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 7.07 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 6.96 | <=13 | Pass |
| 64QAM | 1717.5 | 75 | 0 | 7.06 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 7.15 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 7.11 | <=13 | Pass |



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4.6 B4_20MHz

4.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 6.01 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 6.17 | <=13 | Pass |
| | 1745 | 100 | 0 | 6.15 | <=13 | Pass |
| 16QAM | 1720 | 100 | 0 | 6.85 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 6.96 | <=13 | Pass |
| | 1745 | 100 | 0 | 6.87 | <=13 | Pass |
| 64QAM | 1720 | 100 | 0 | 7.07 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 7.13 | <=13 | Pass |
| | 1745 | 100 | 0 | 7.06 | <=13 | Pass |



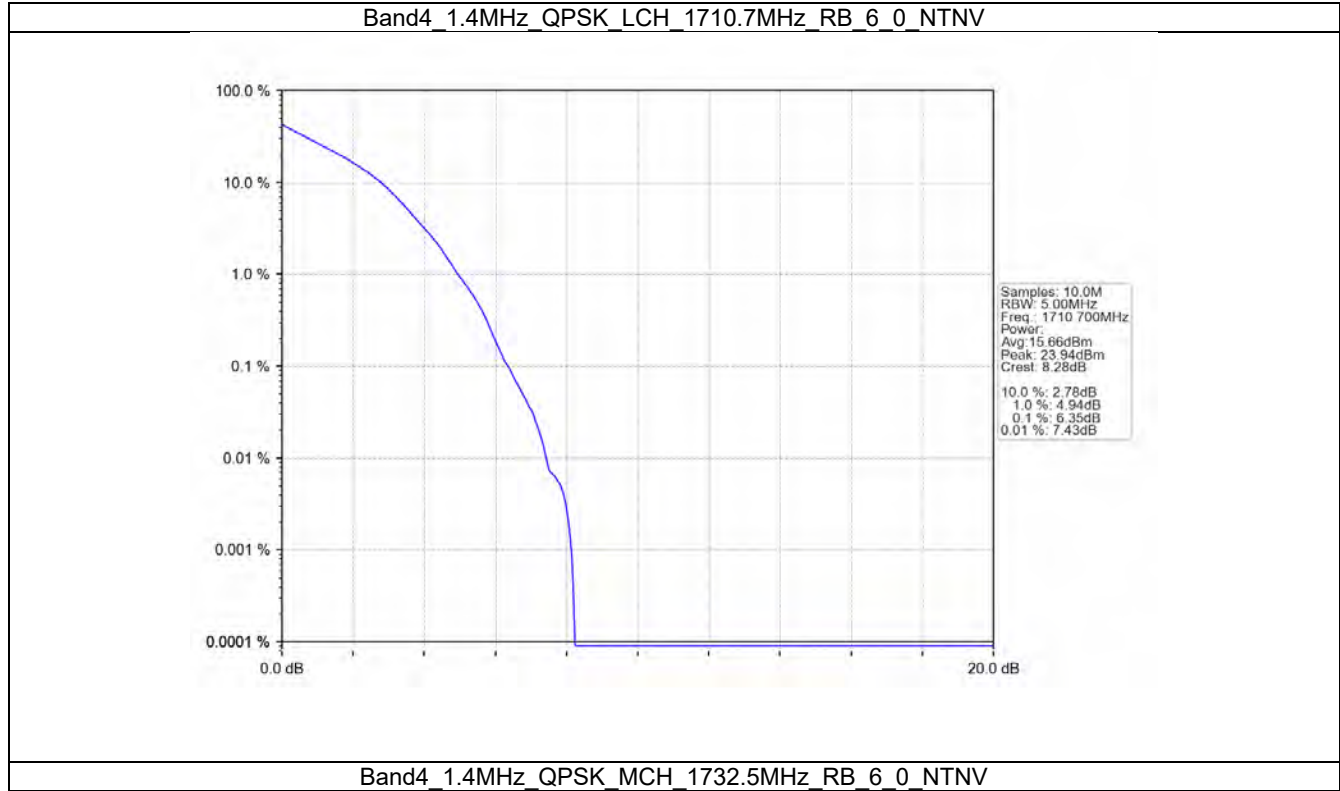
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4.1 B4_1.4MHz

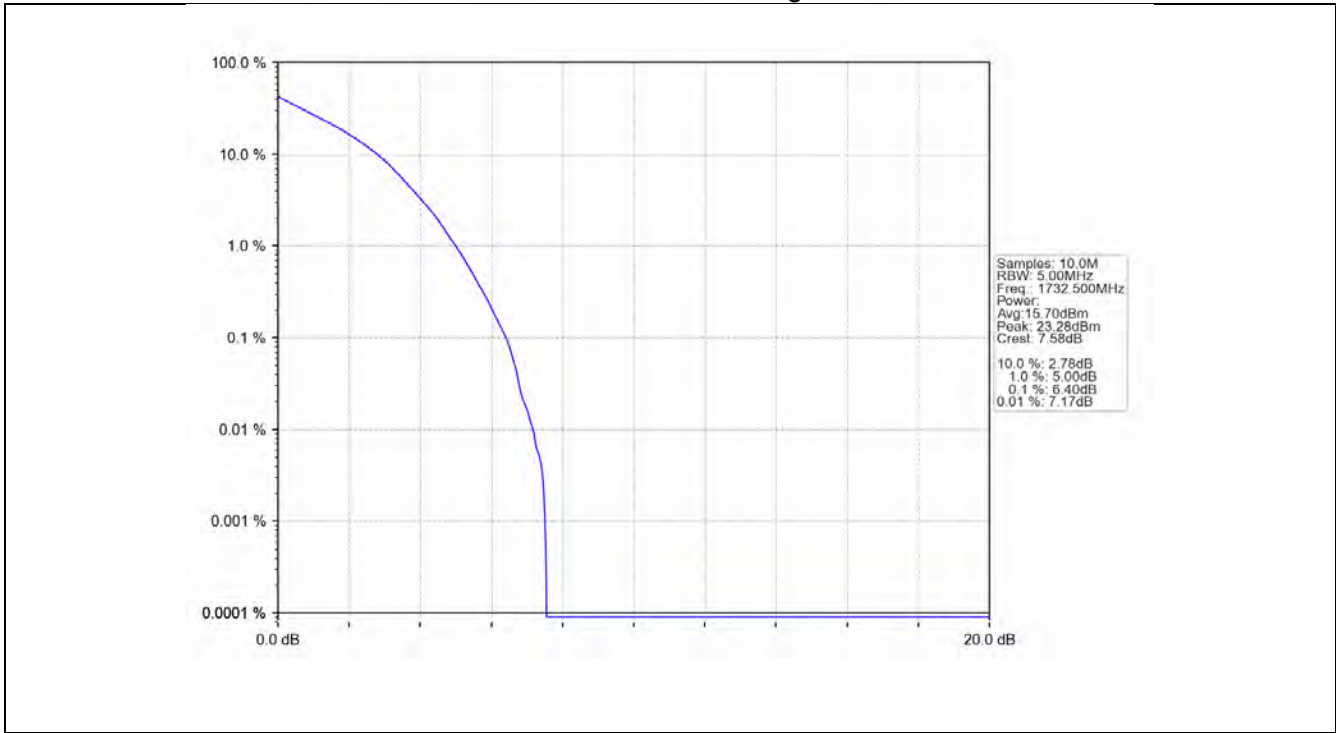
4.1.2 Test Graph



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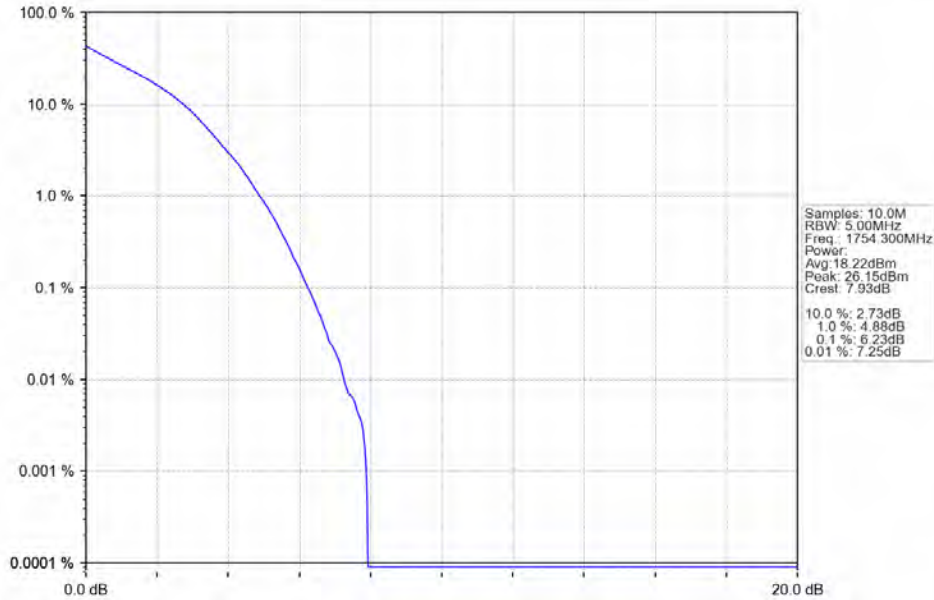


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

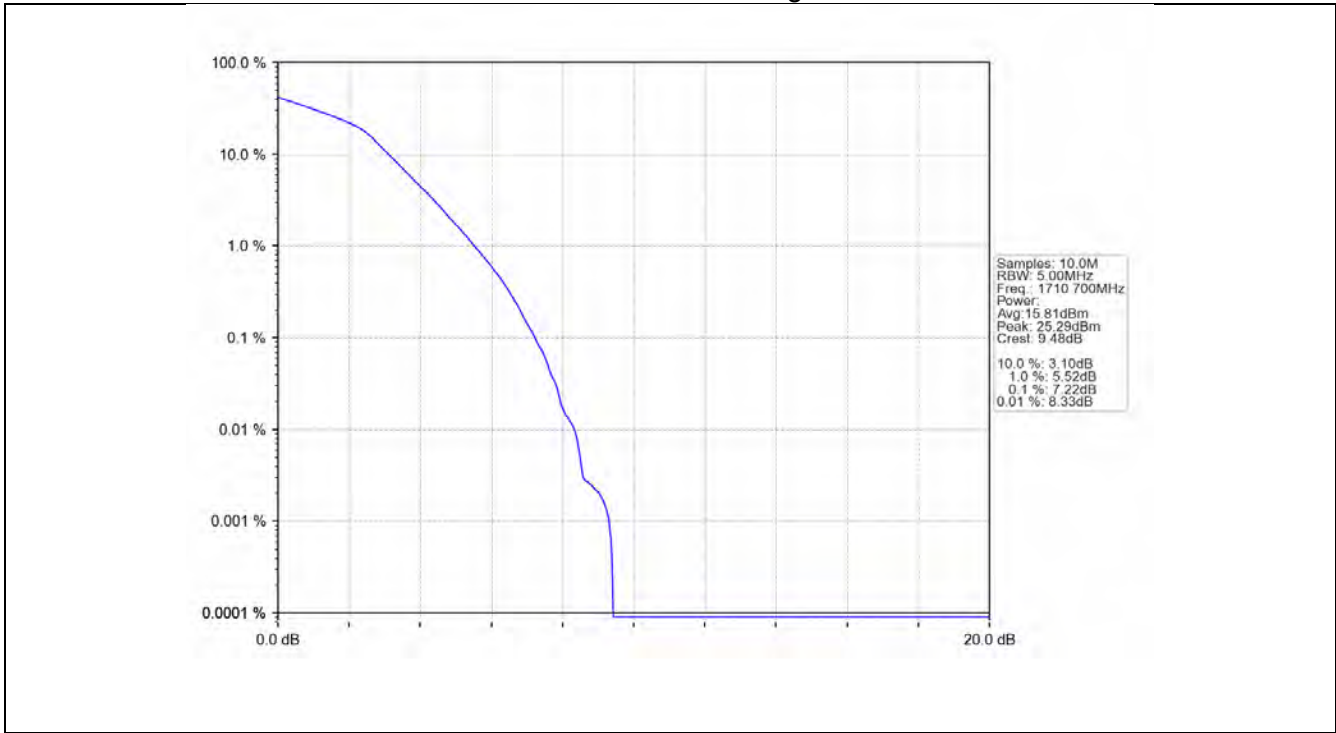


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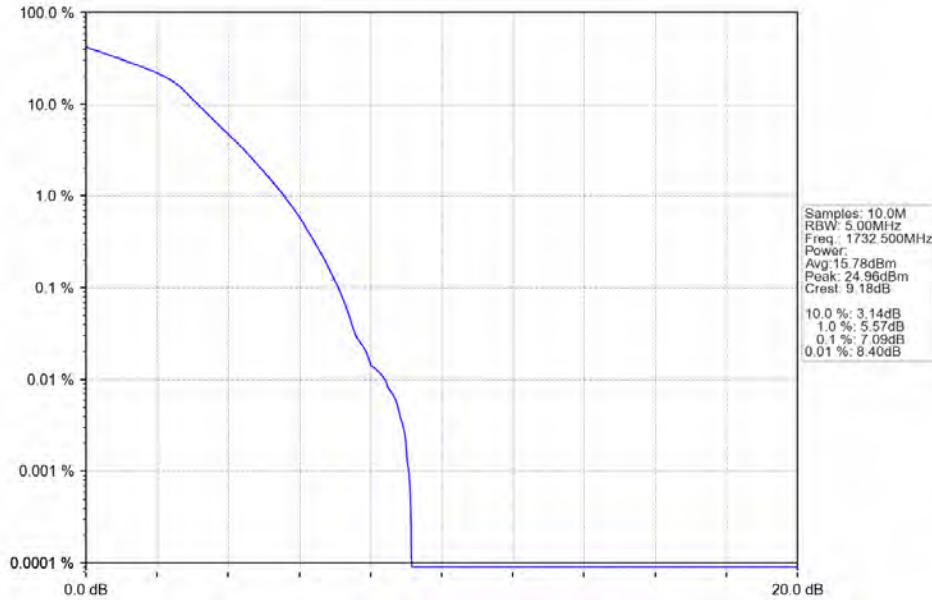


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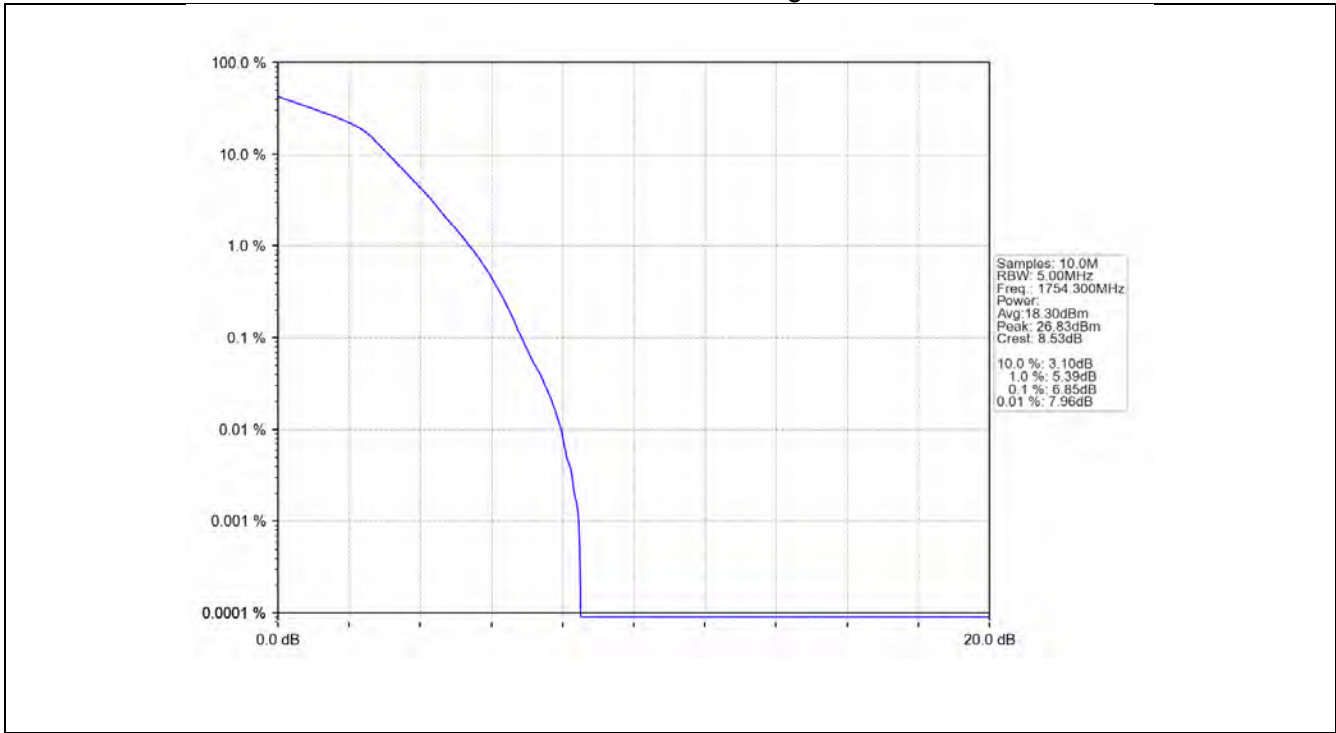
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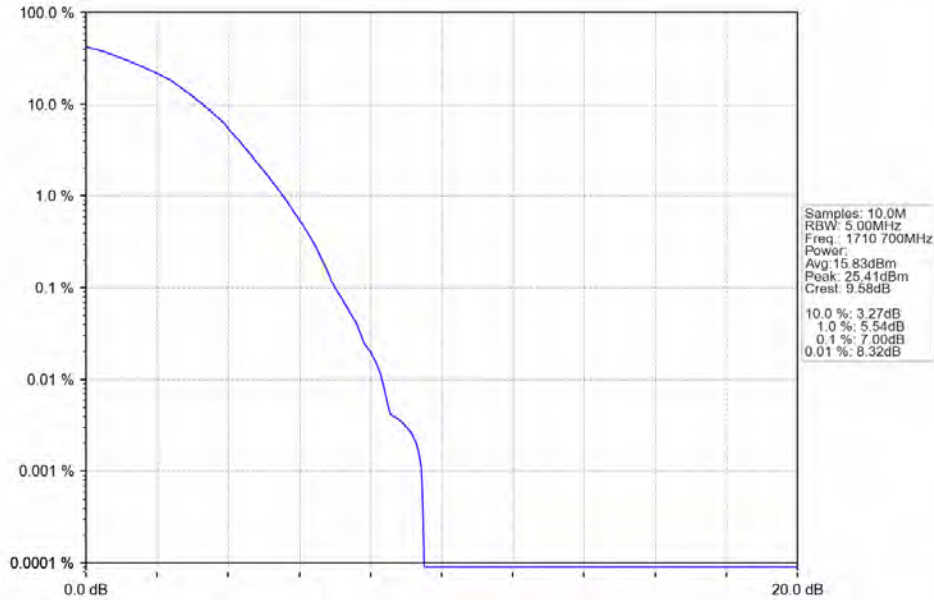


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Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV

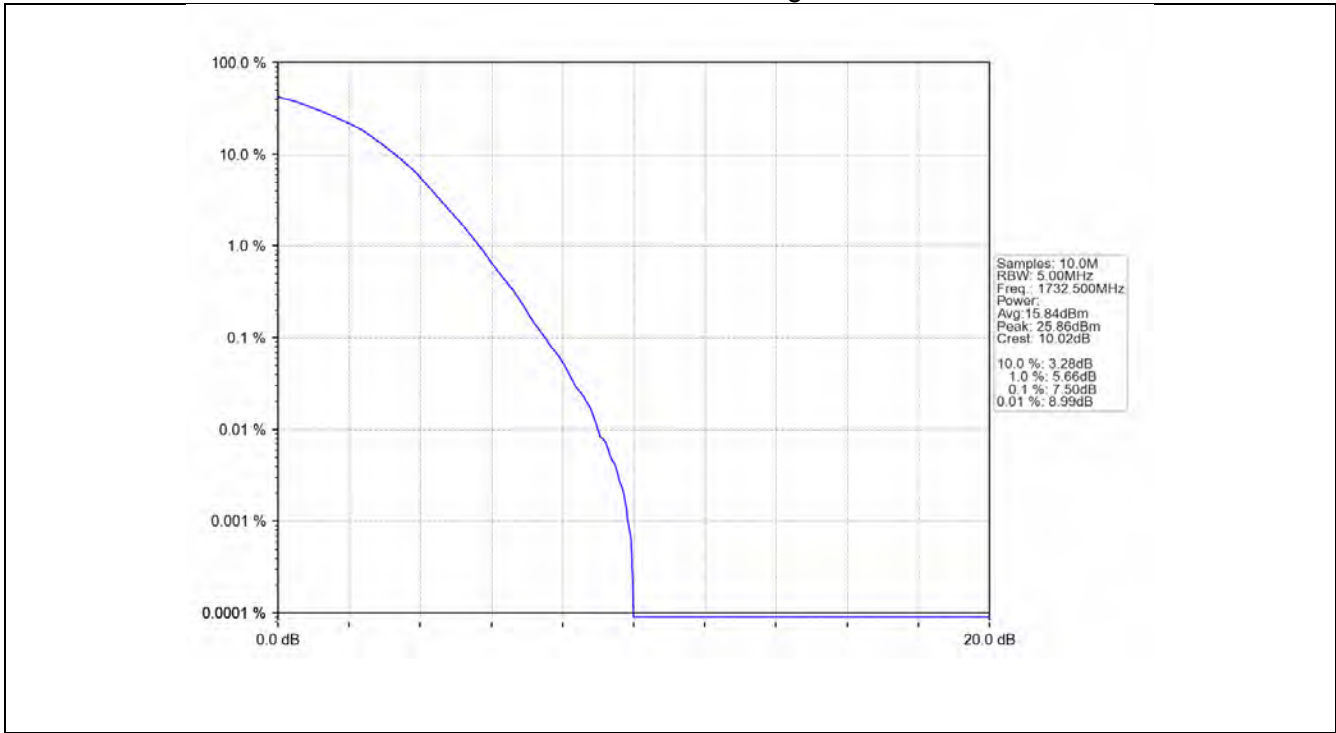


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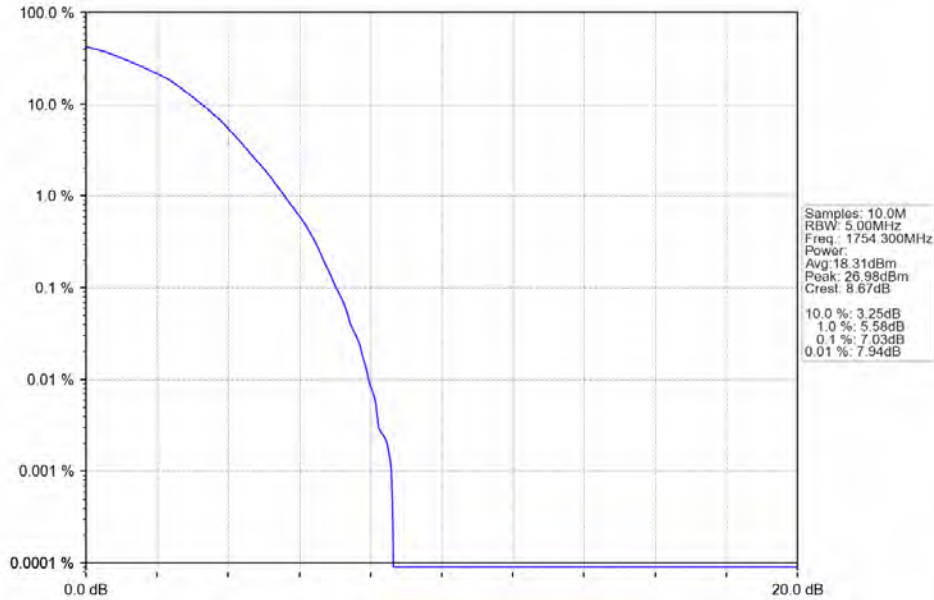


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Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



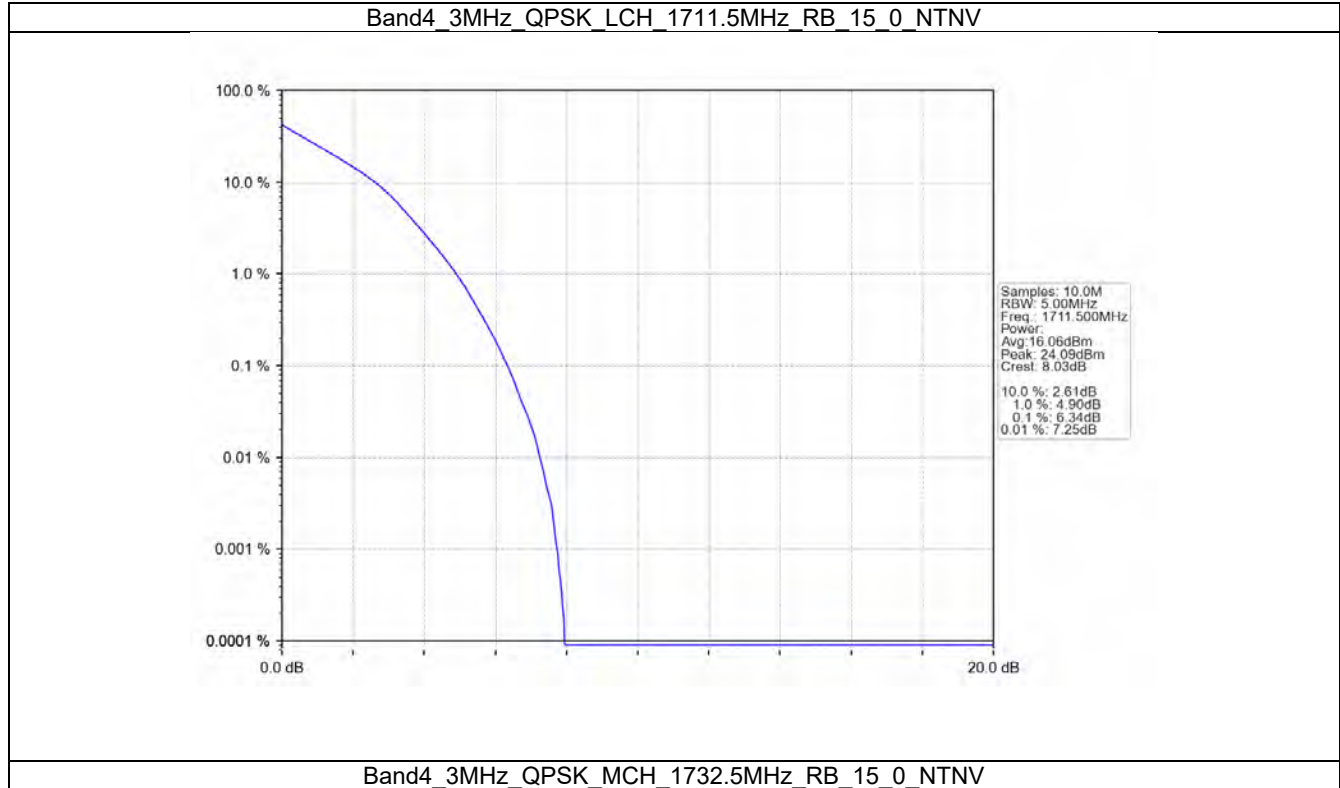
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4.2 B4_3MHz

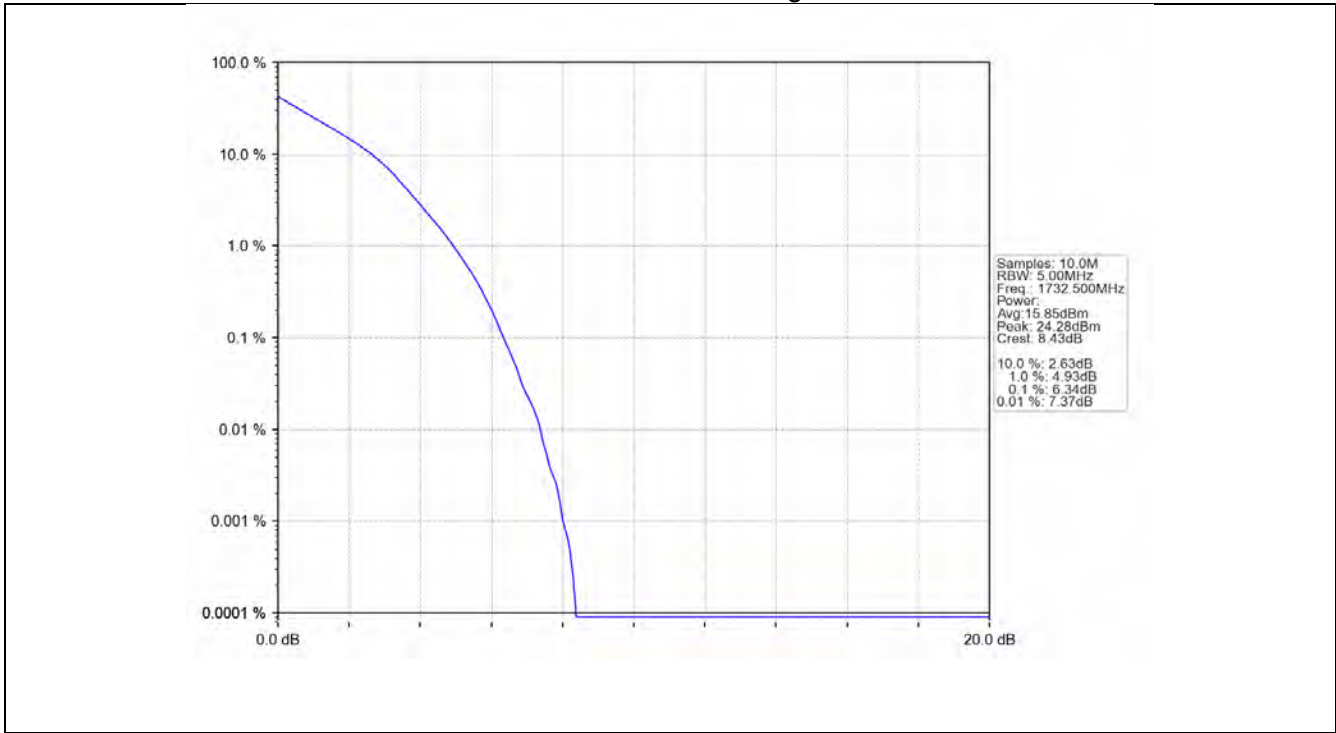
4.2.2 Test Graph



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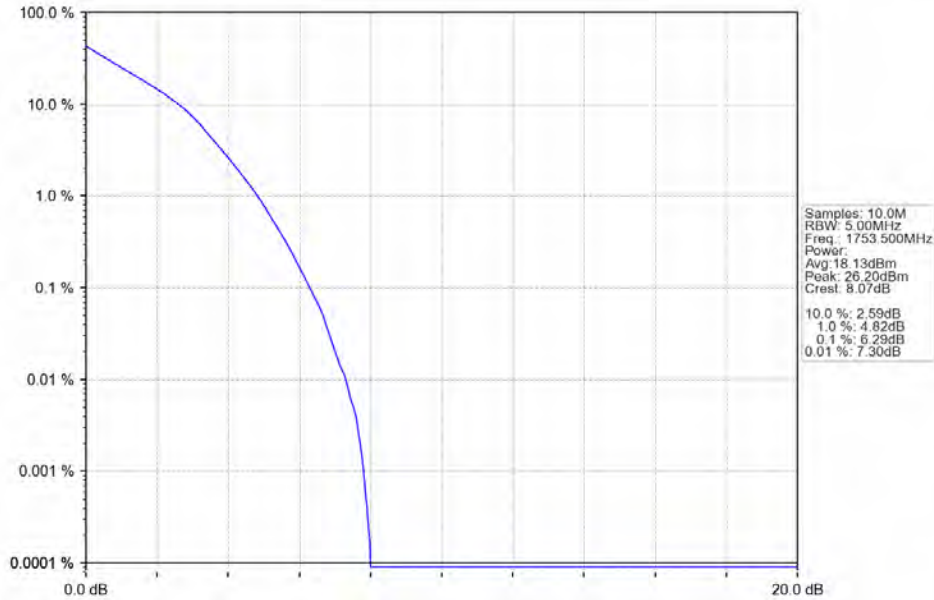


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



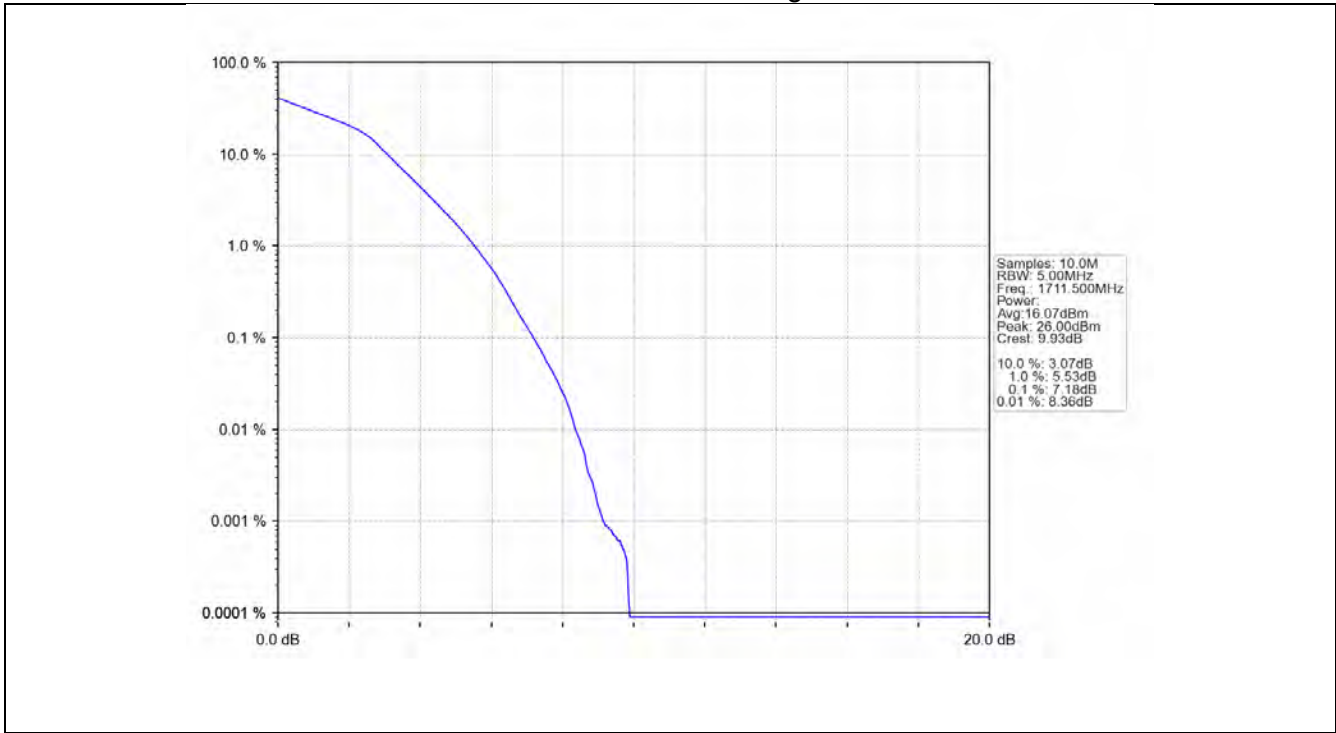
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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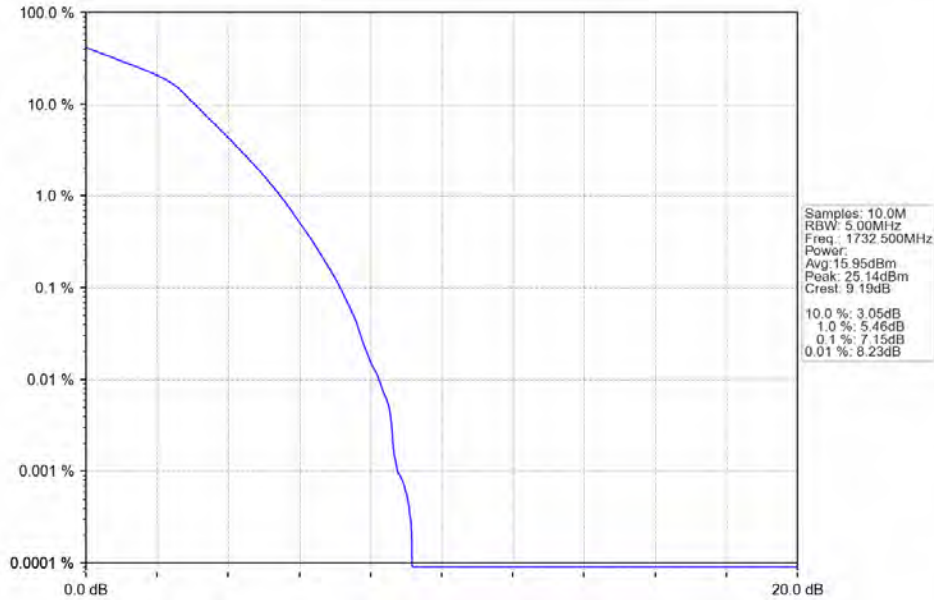


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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



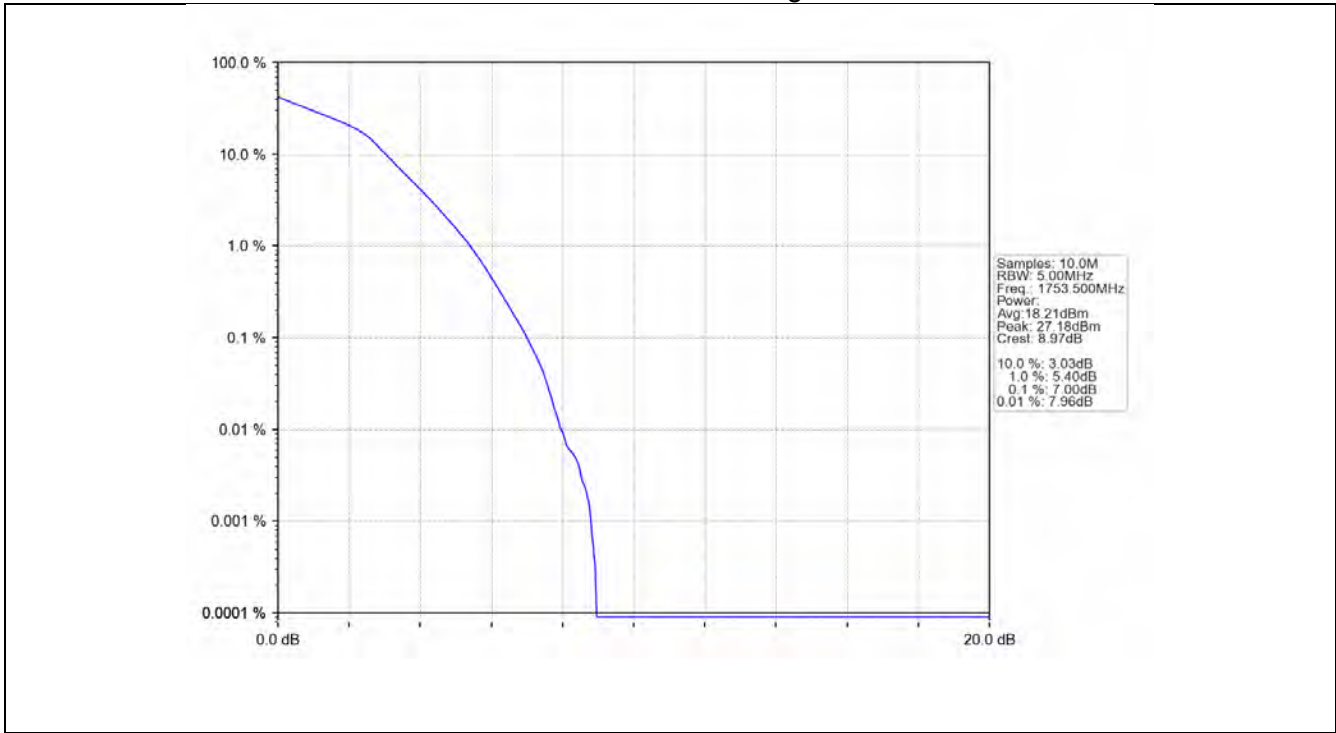
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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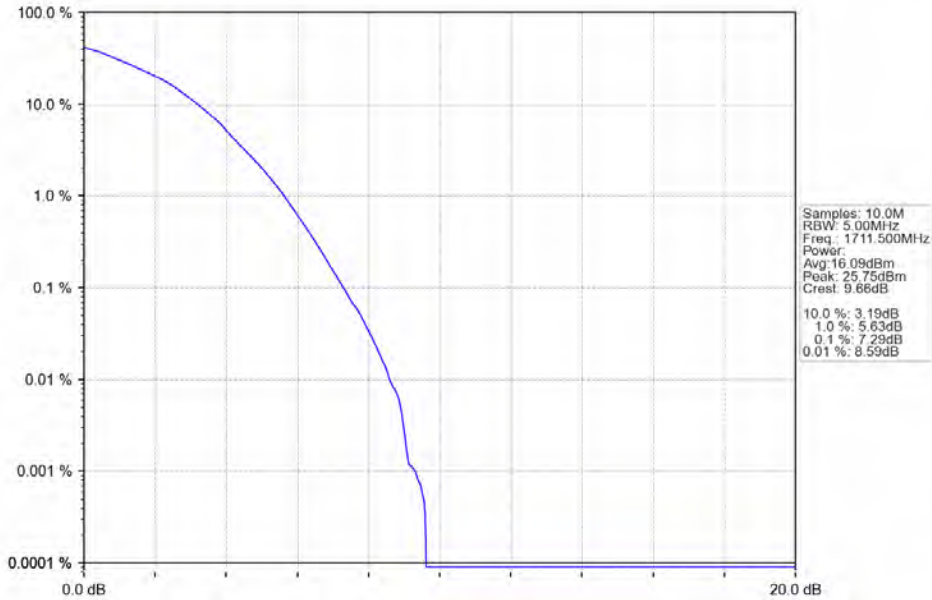


Report No.: SUCR240200003402

Rev.: 01

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Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV

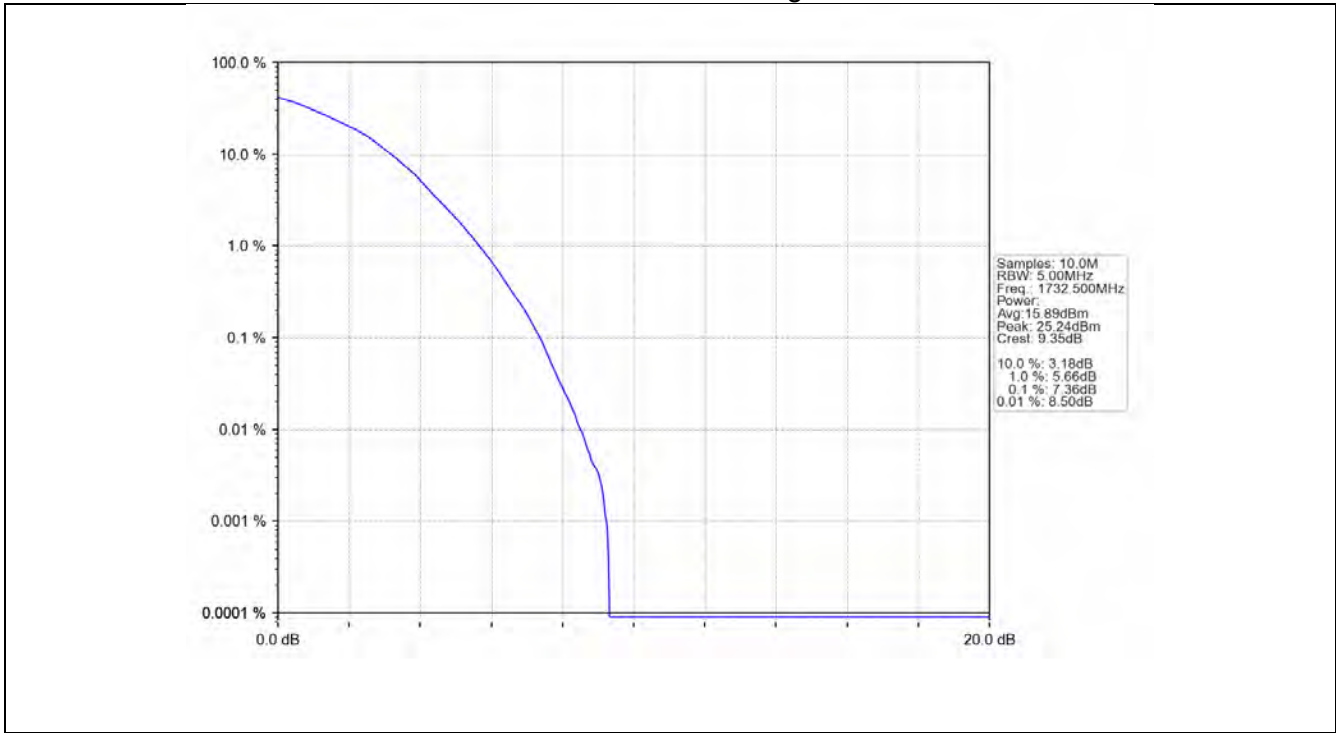


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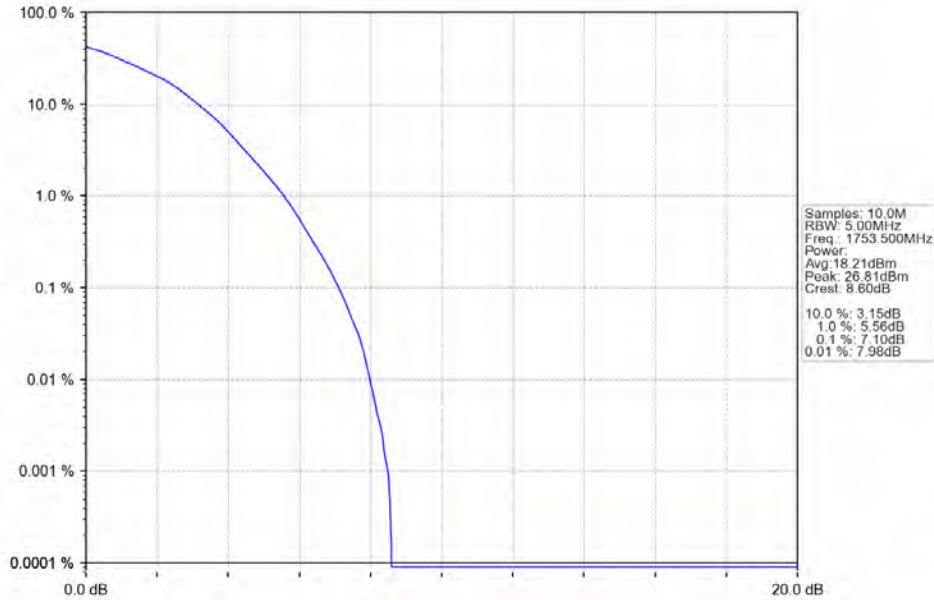


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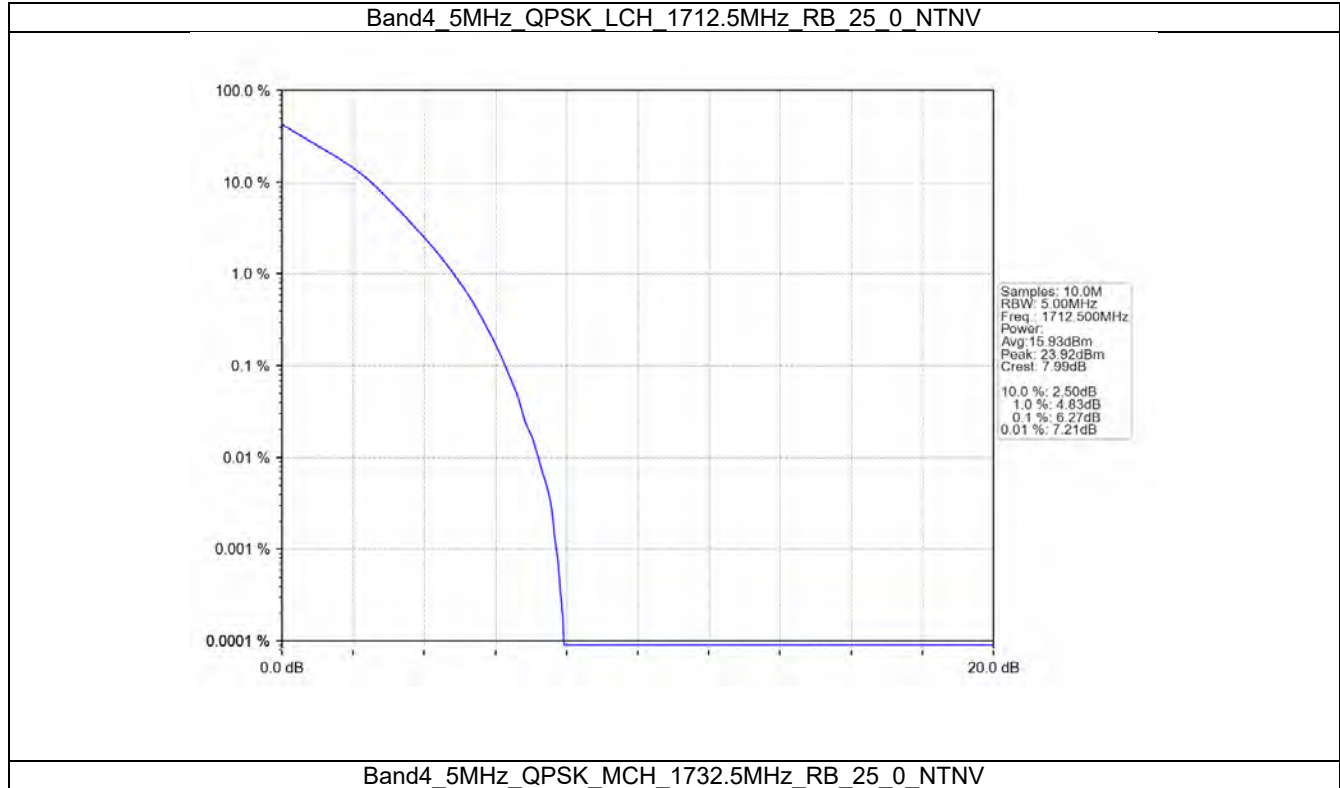
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4.3 B4_5MHz

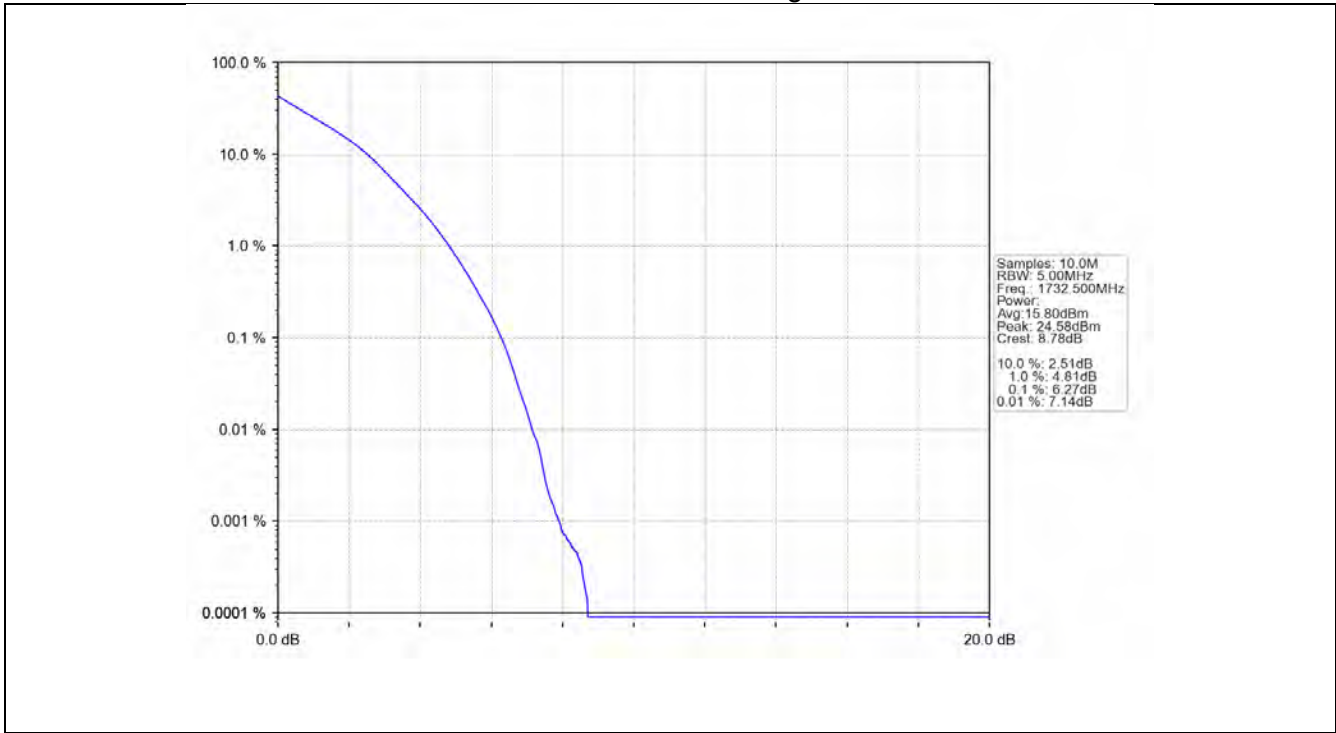
4.3.2 Test Graph



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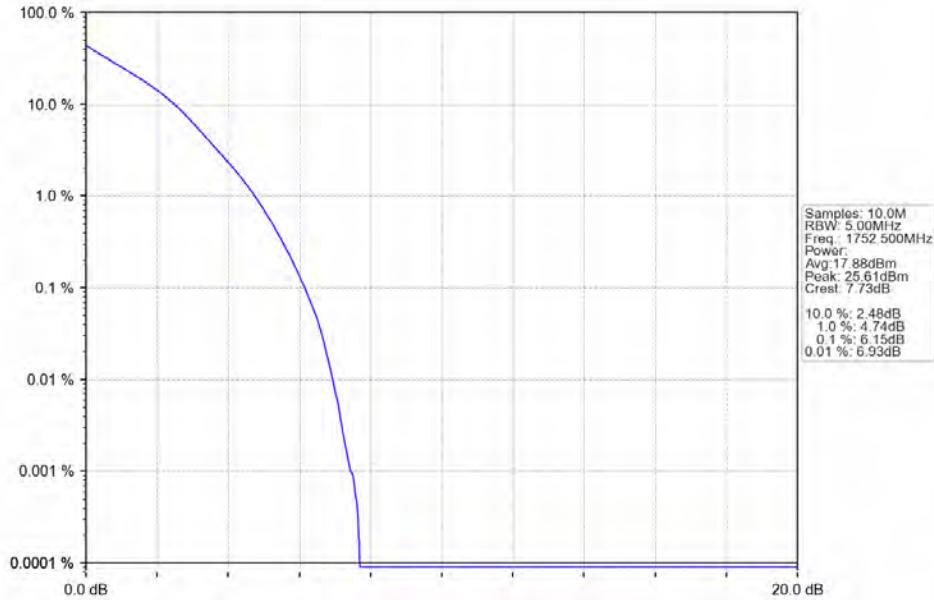


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

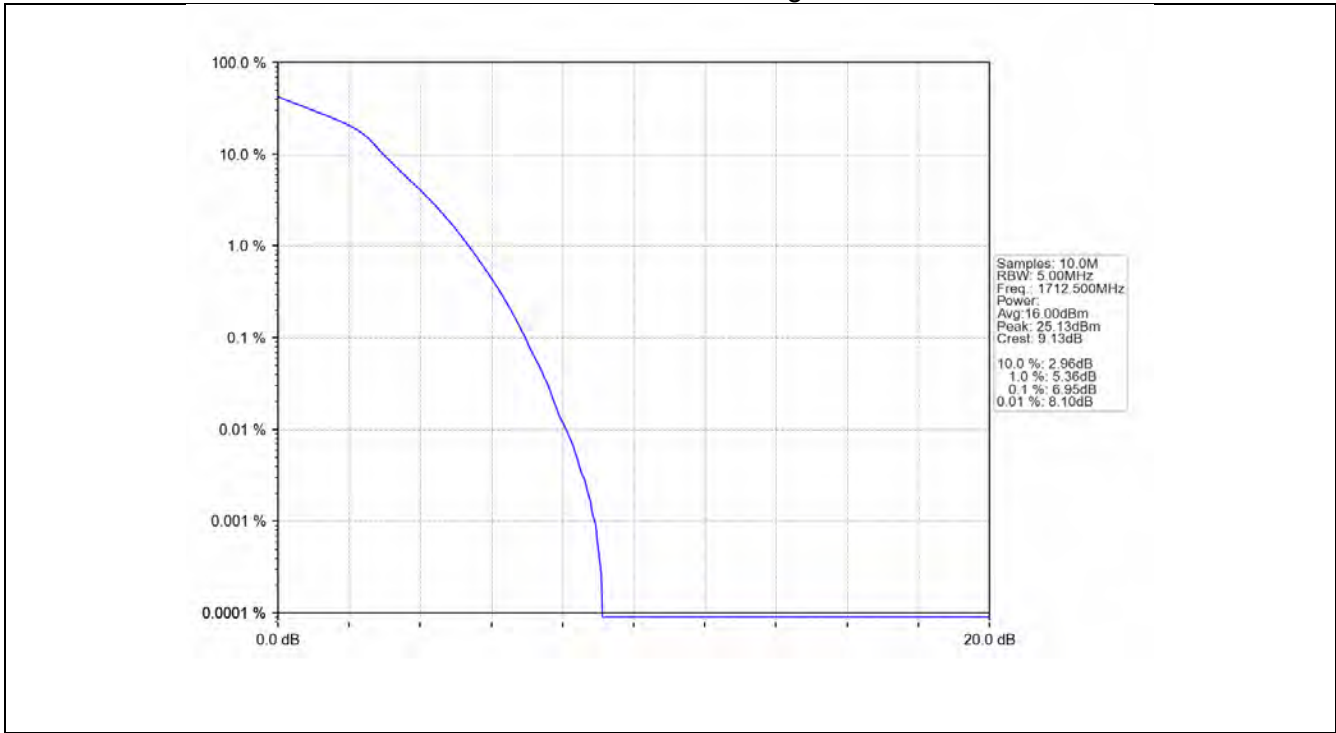


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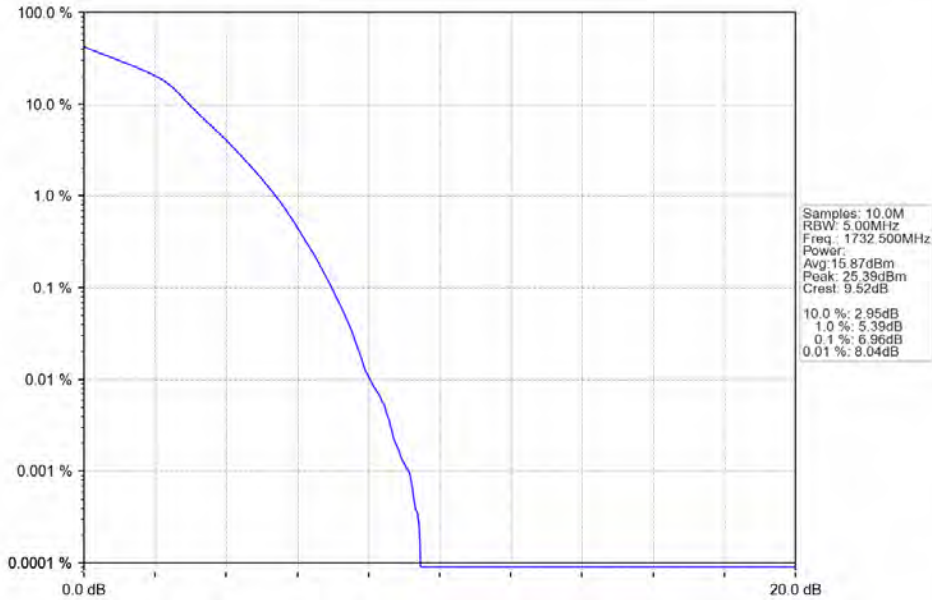


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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



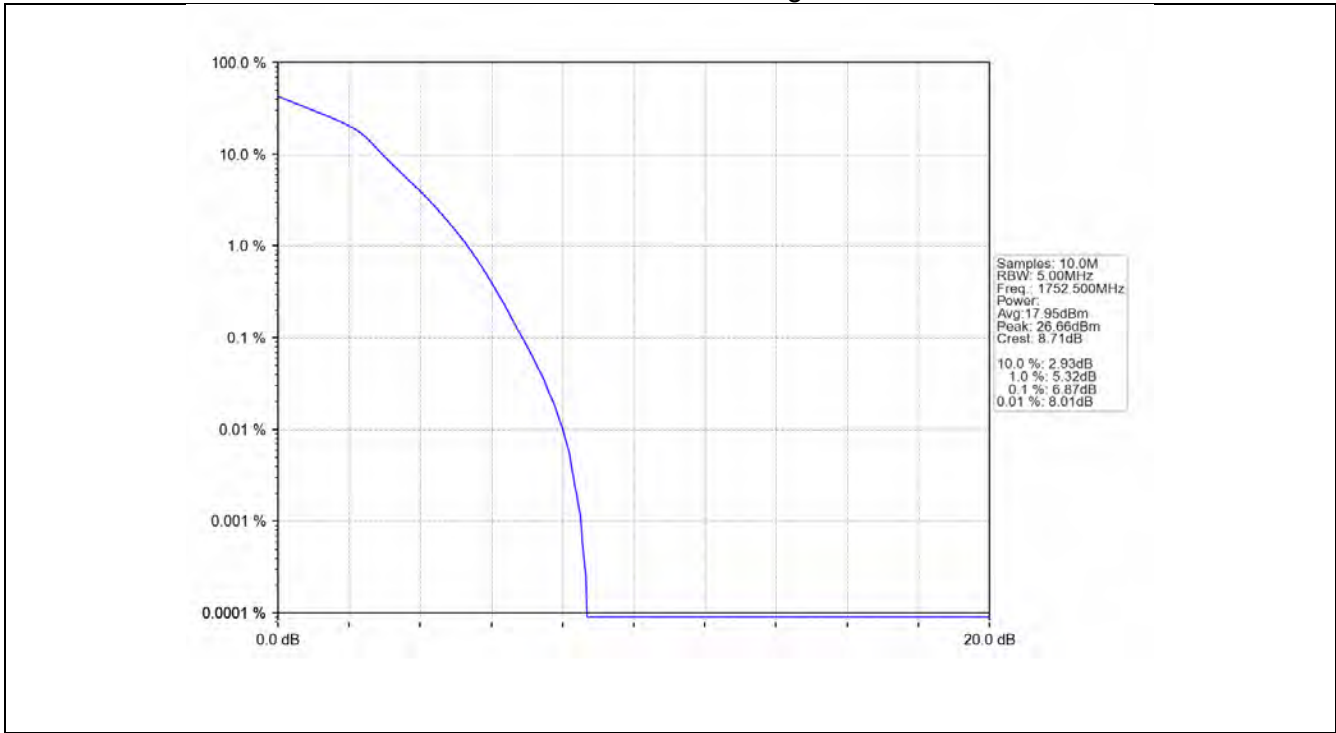
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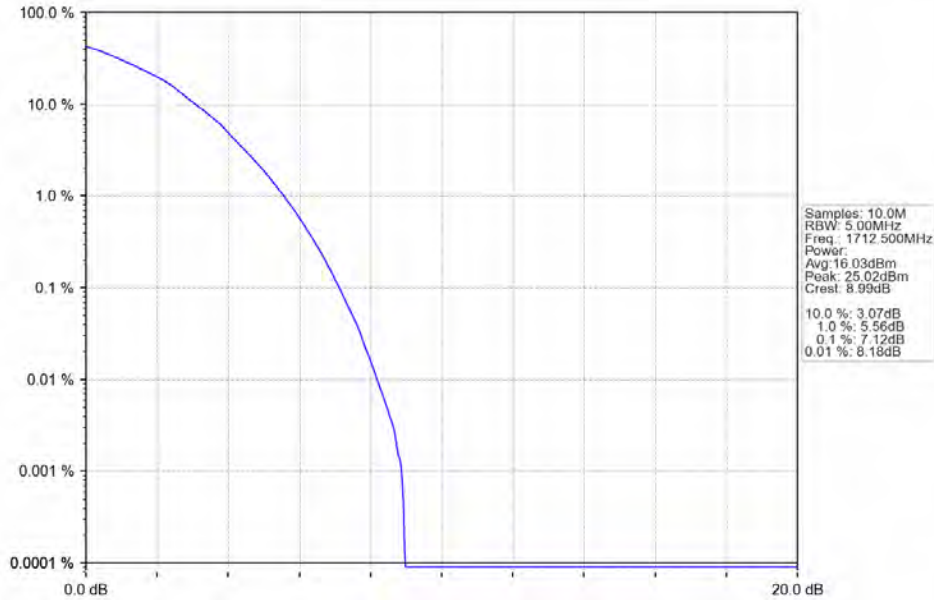


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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



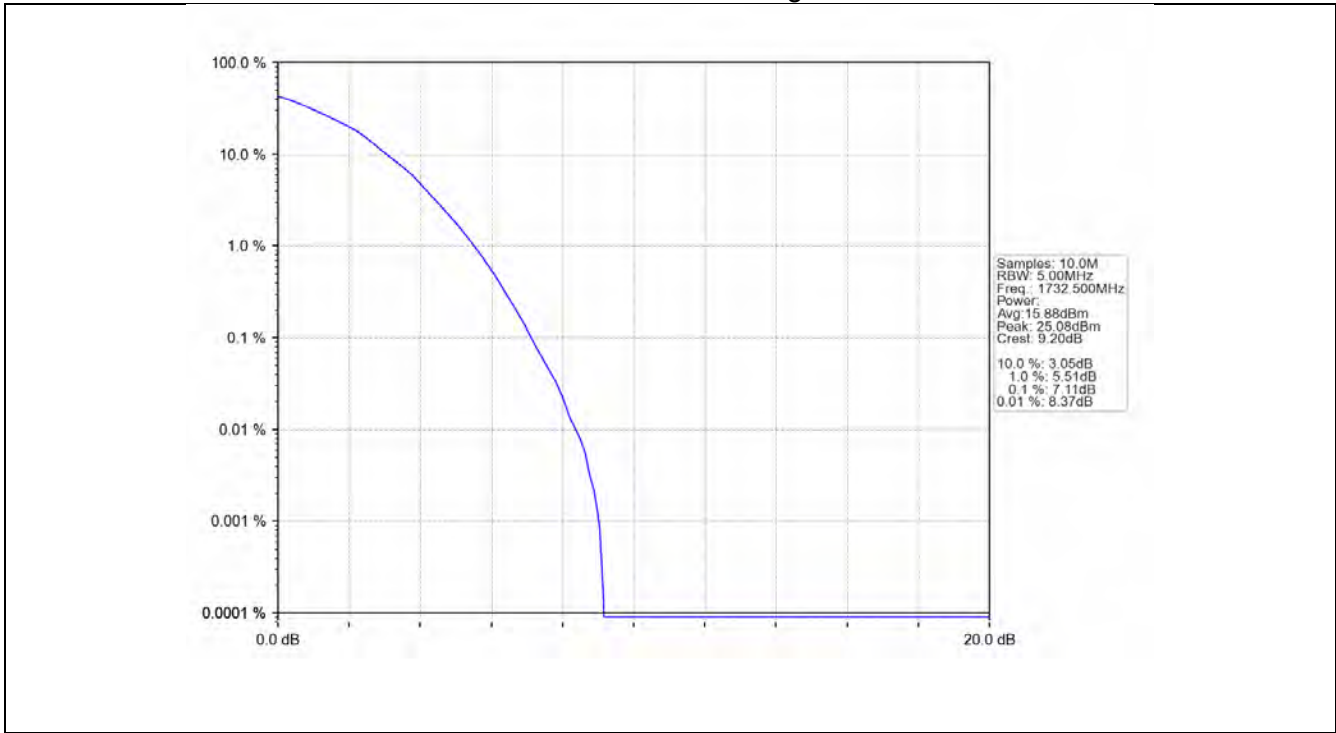
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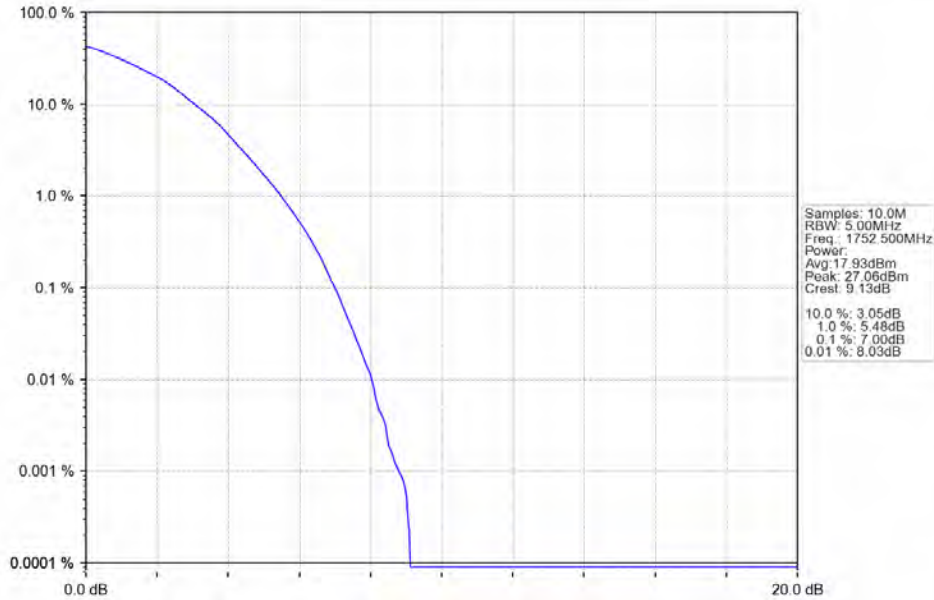


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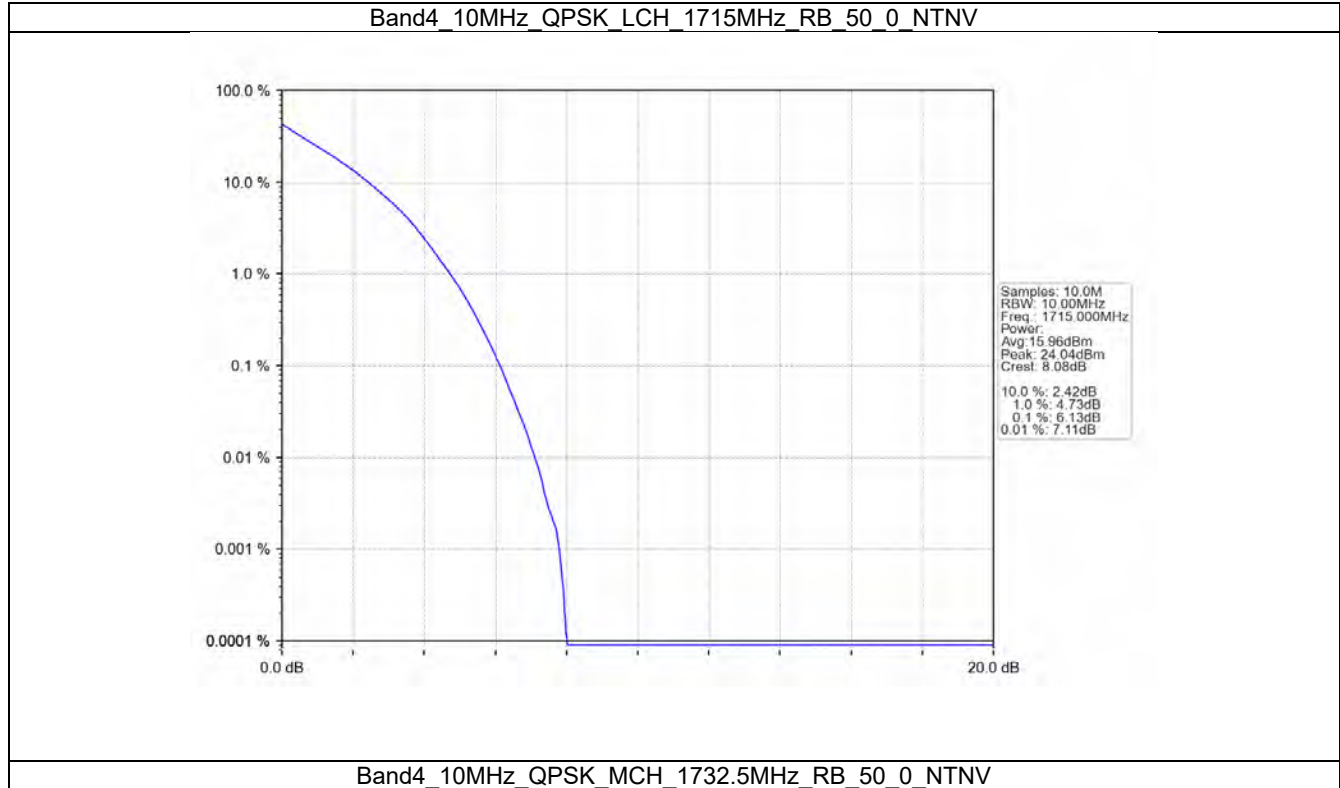
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4.4 B4_10MHz

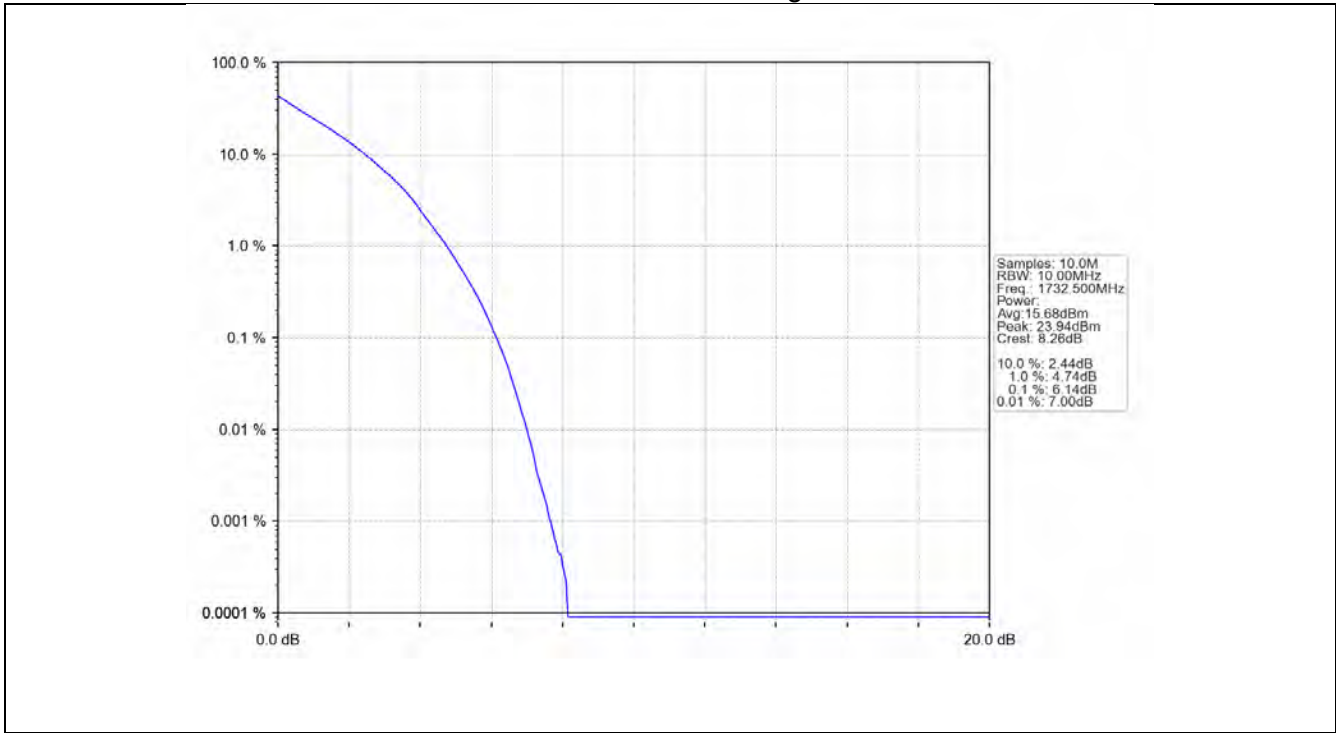
4.4.2 Test Graph



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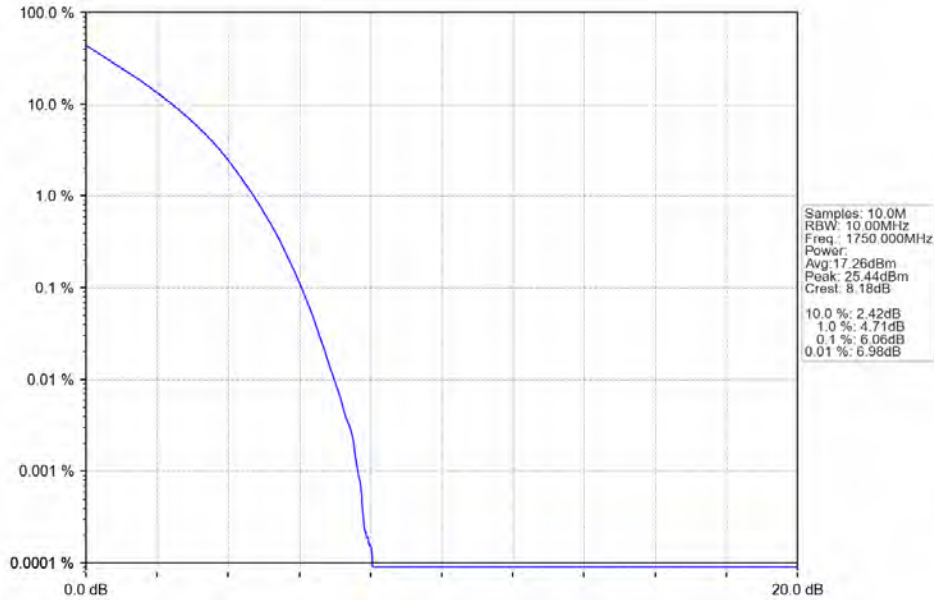


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Band4 10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4 10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



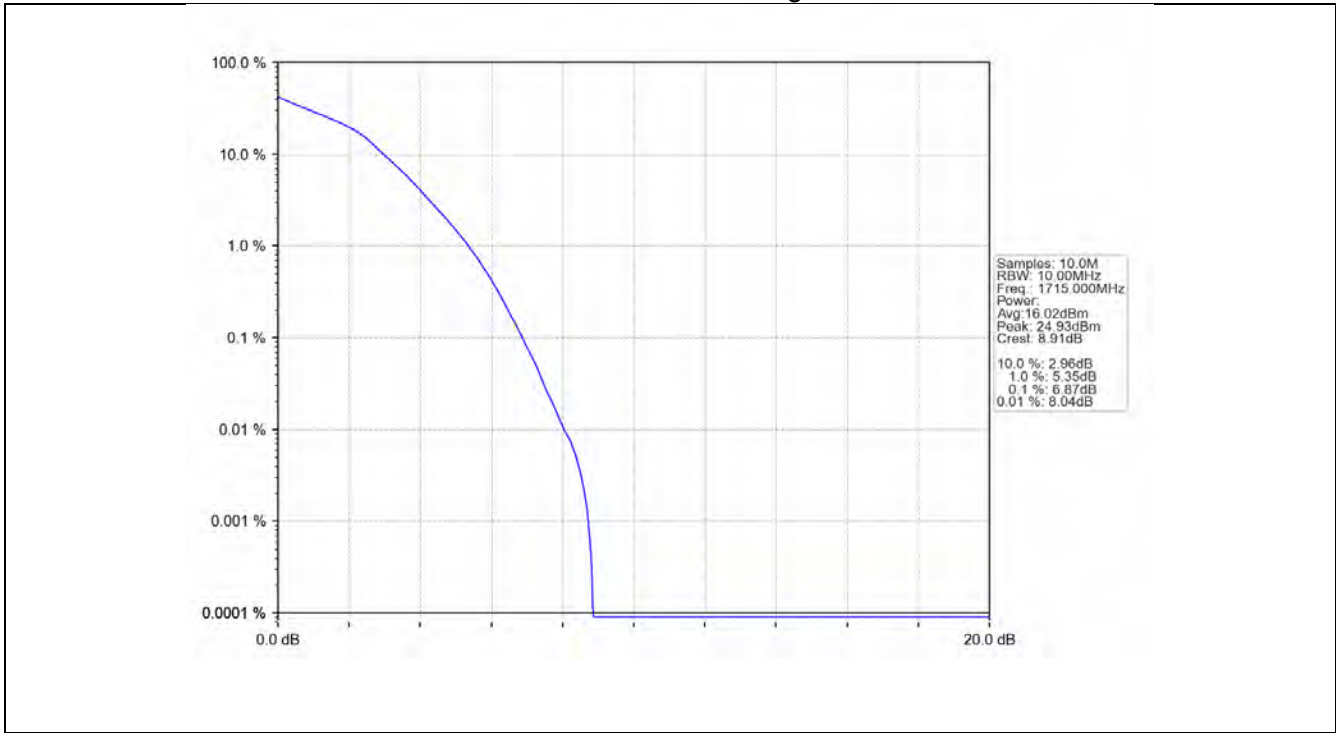
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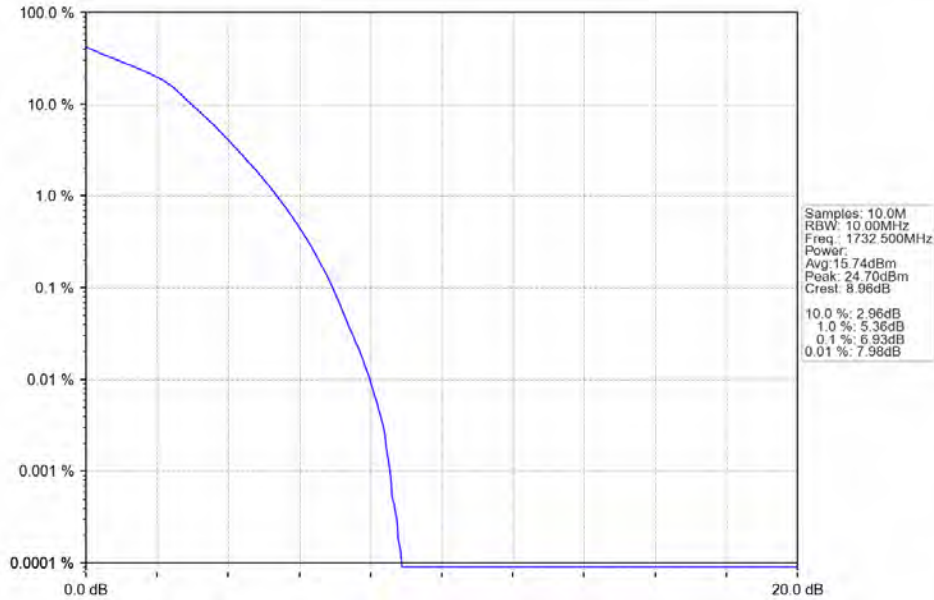


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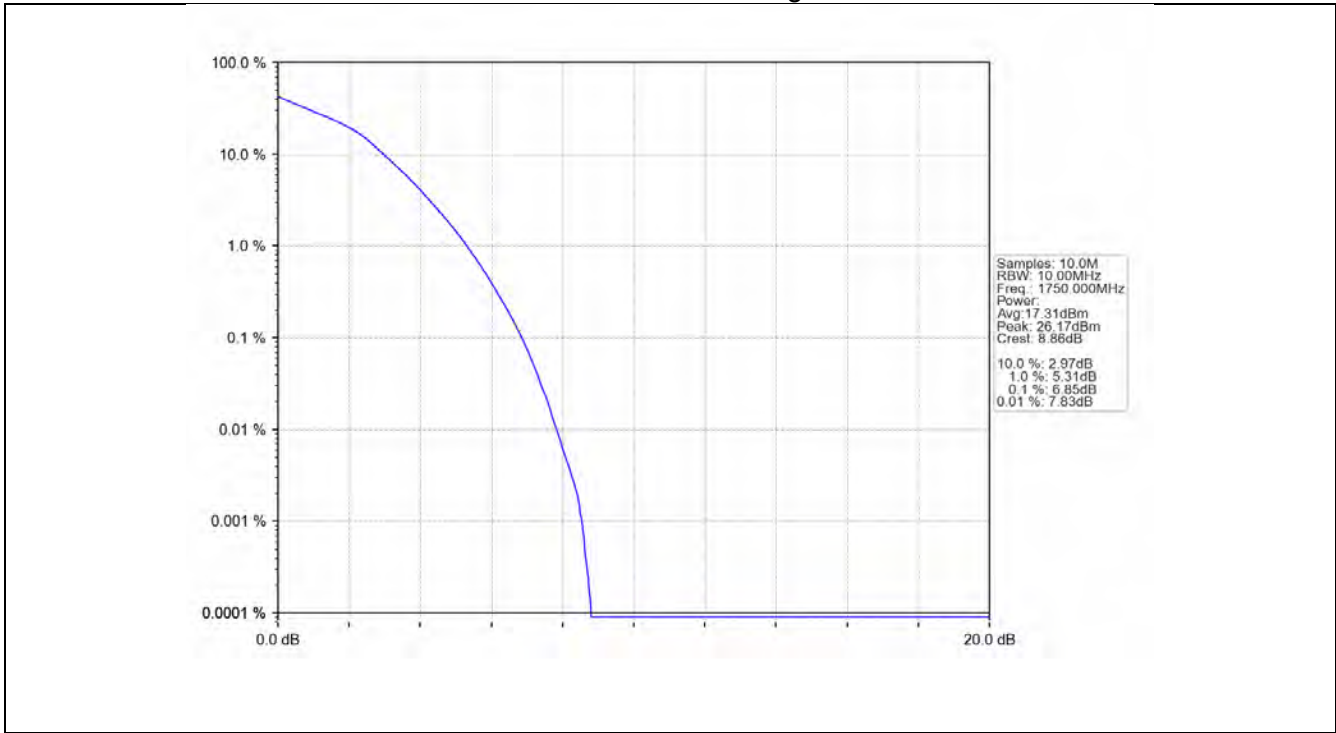


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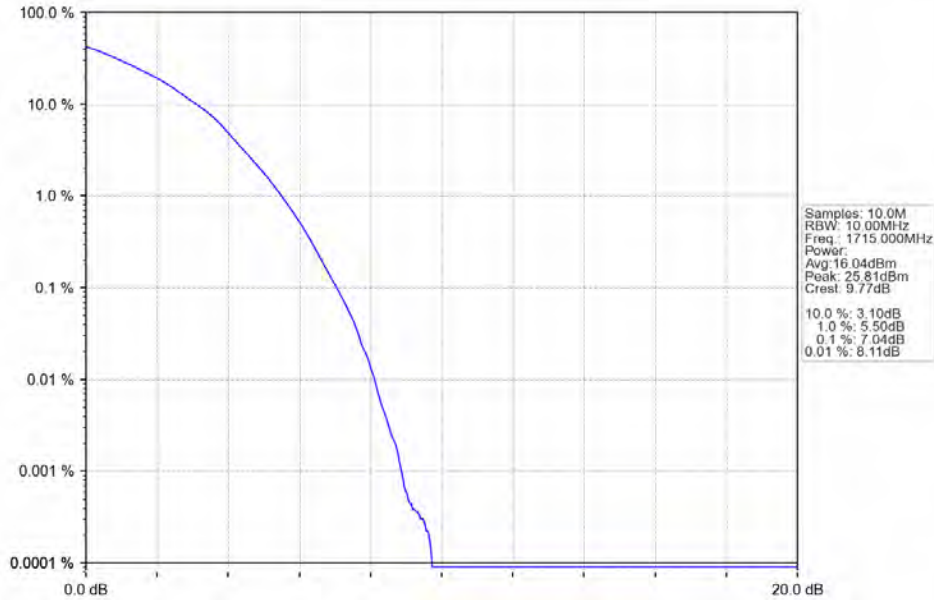


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Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



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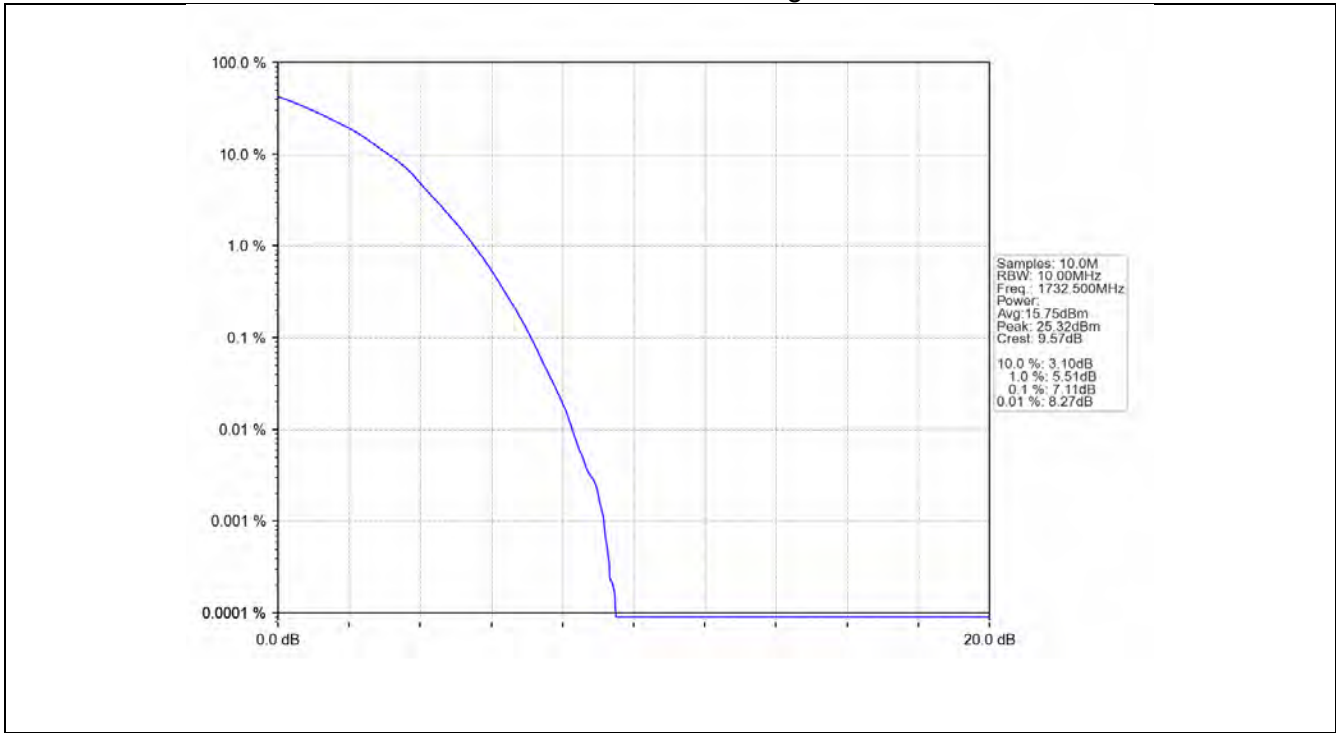


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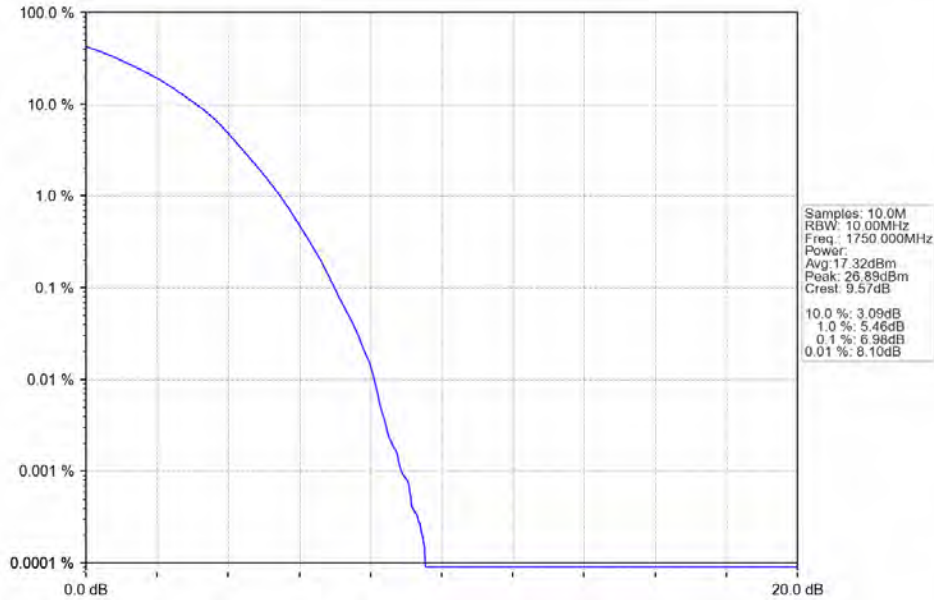


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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV



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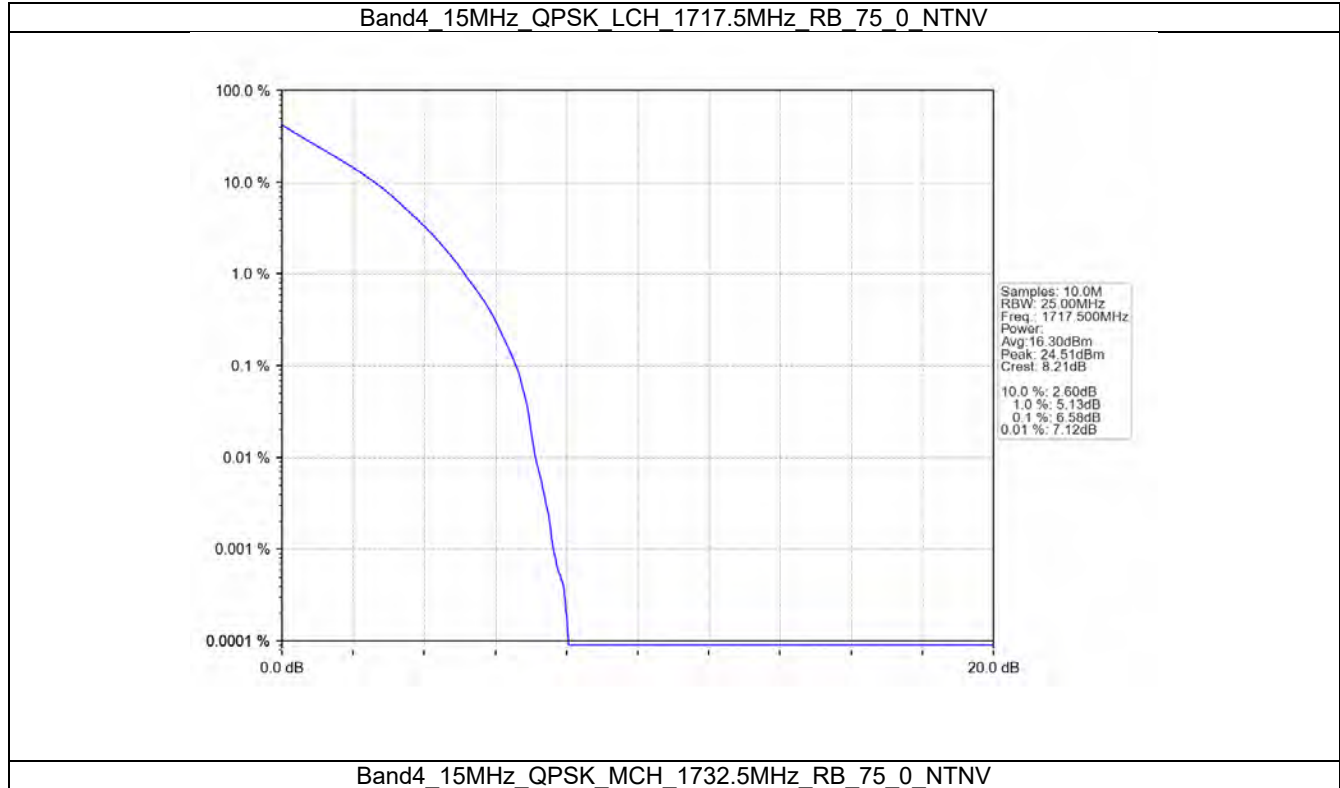
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4.5 B4_15MHz

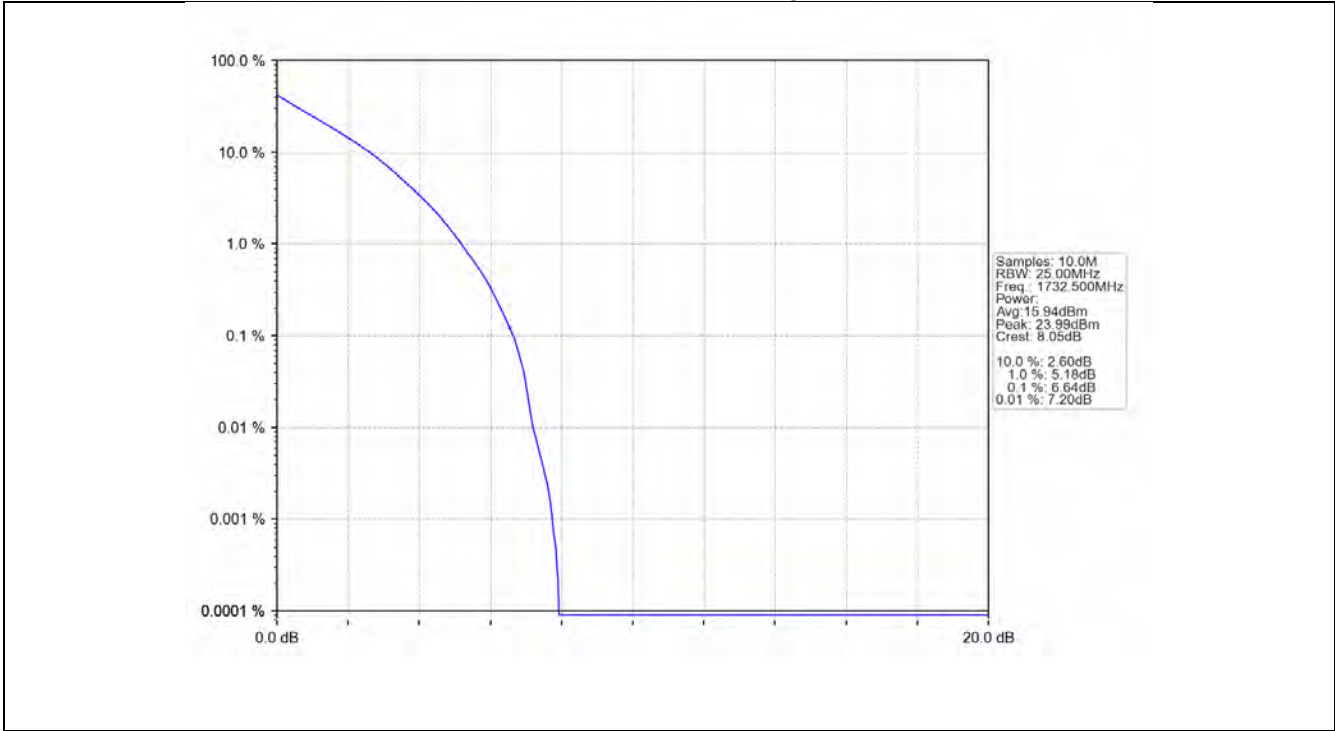
4.5.2 Test Graph



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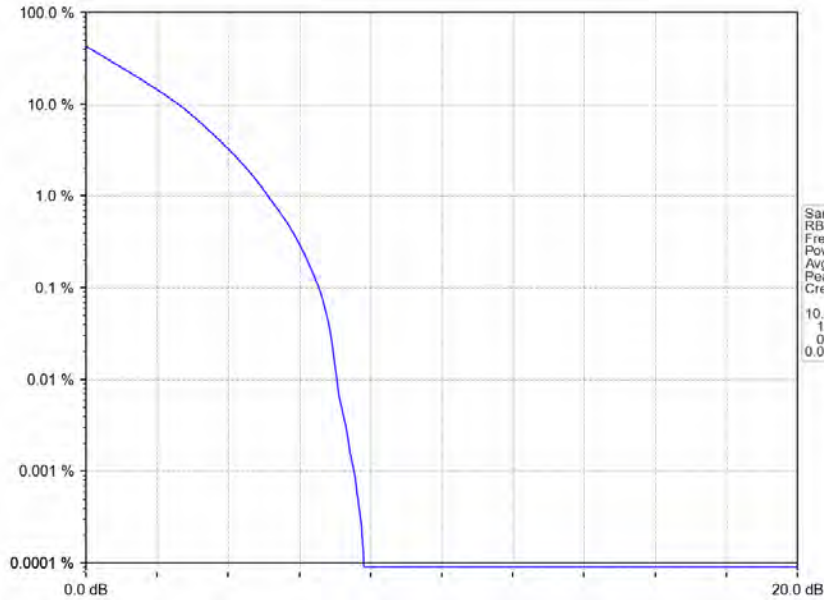


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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



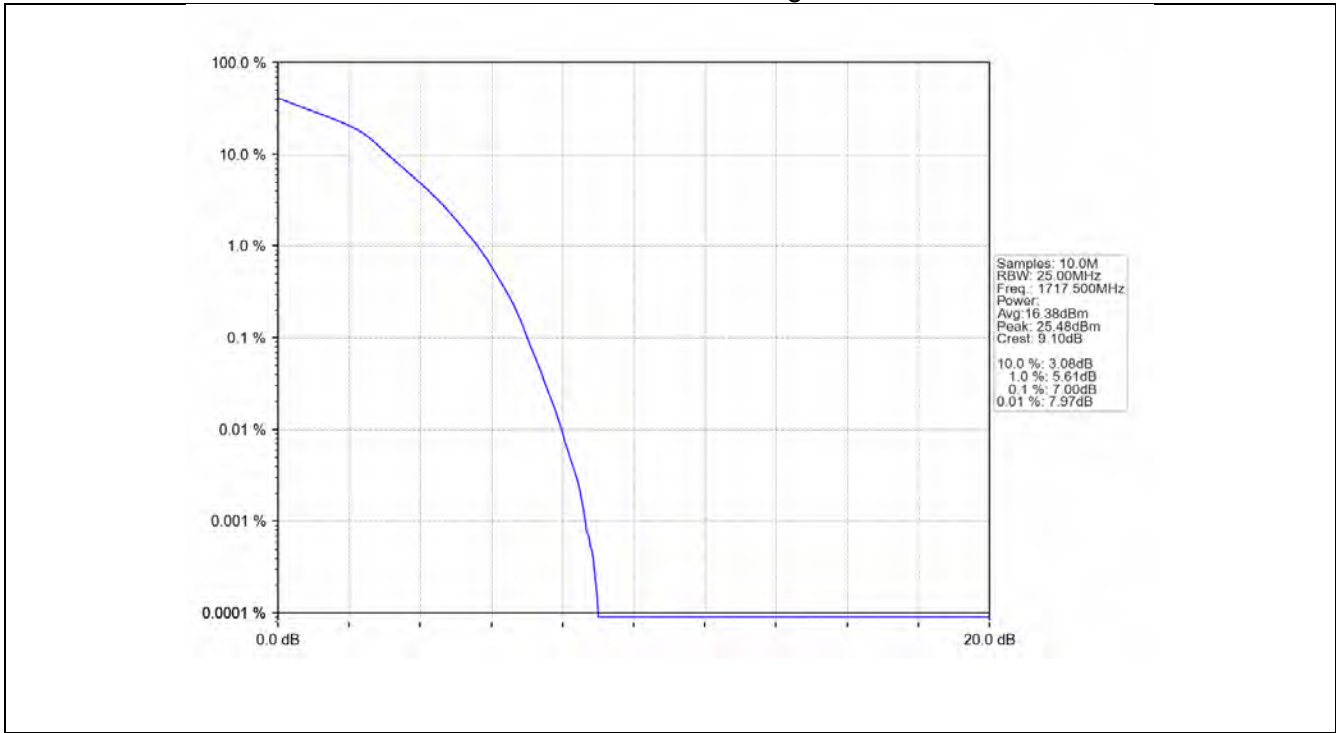
Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1747.500MHz
 Power:
 Avg: 17.06dBm
 Peak: 25.05dBm
 Crest: 7.99dB
 10.0%: 2.59dB
 1.0%: 5.11dB
 0.1%: 6.55dB
 0.01%: 7.05dB

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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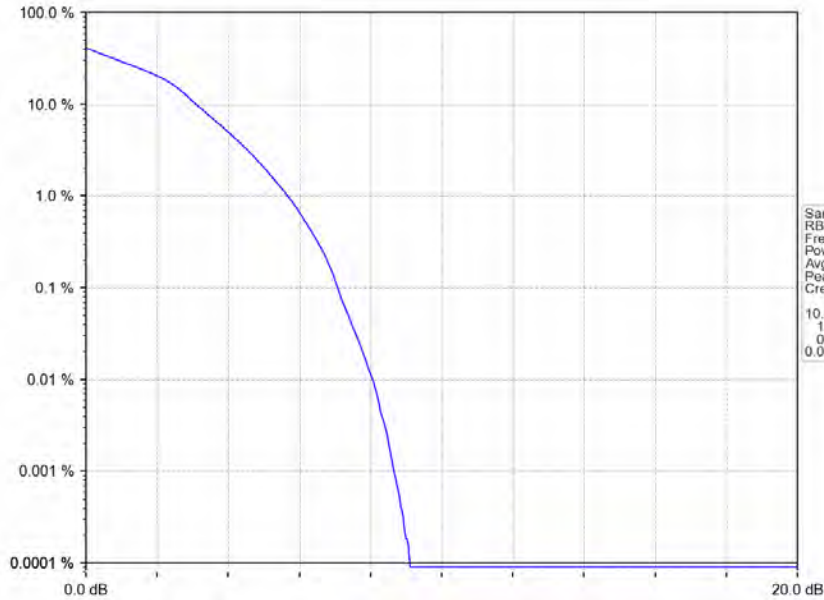


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Band4 15MHz 16QAM MCH 1732.5MHz RB 75_0 NTN



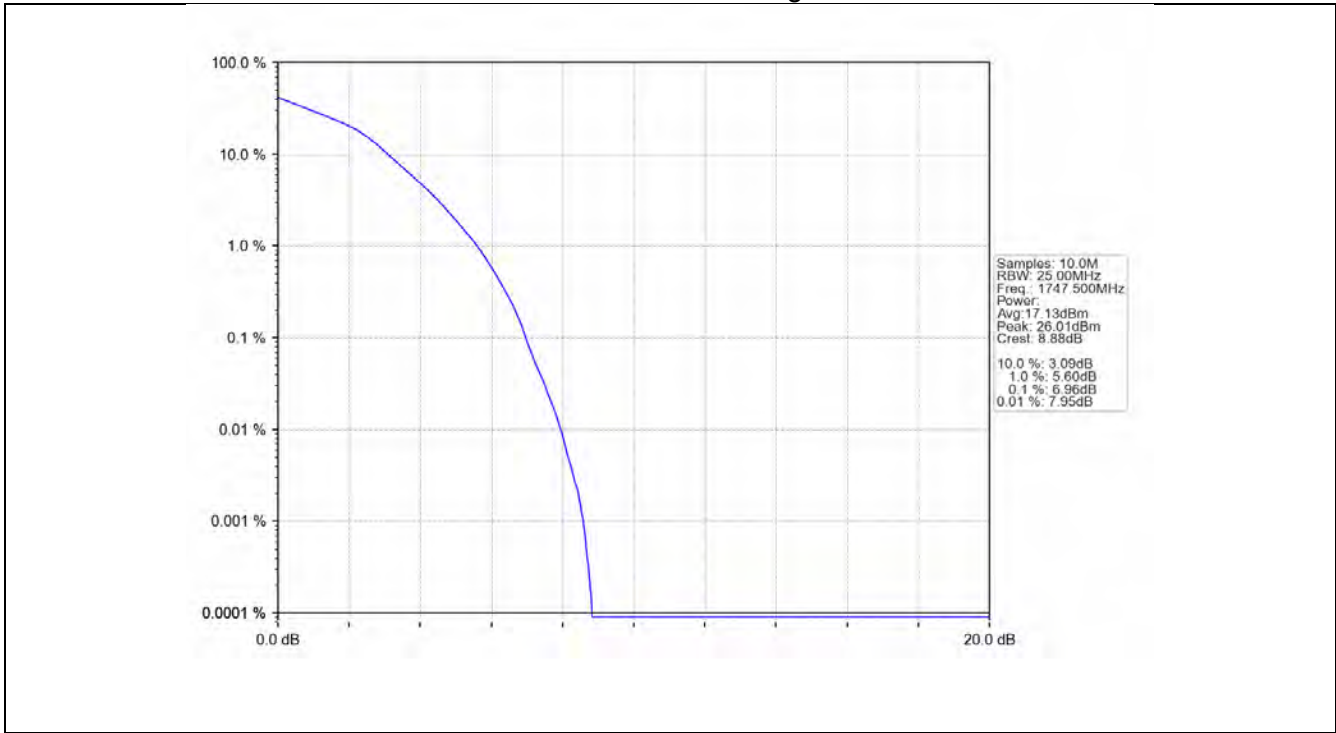
Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1732.500MHz
 Power:
 Avg: 16.02dBm
 Peak: 25.22dBm
 Crest: 9.20dB
 10.0 %: 3.09dB
 1.0 %: 5.67dB
 0.1 %: 7.07dB
 0.01 %: 8.06dB

Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0 NTN



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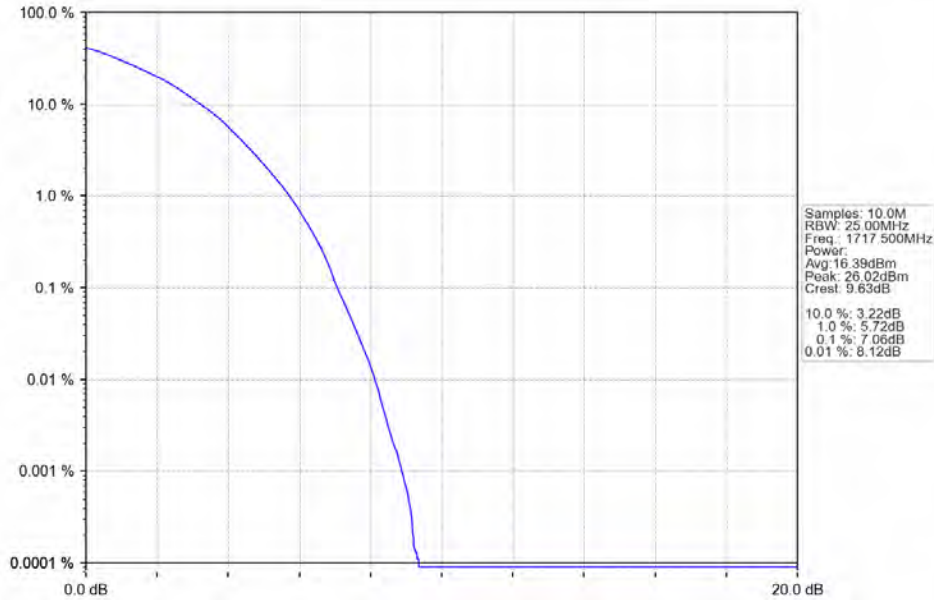


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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



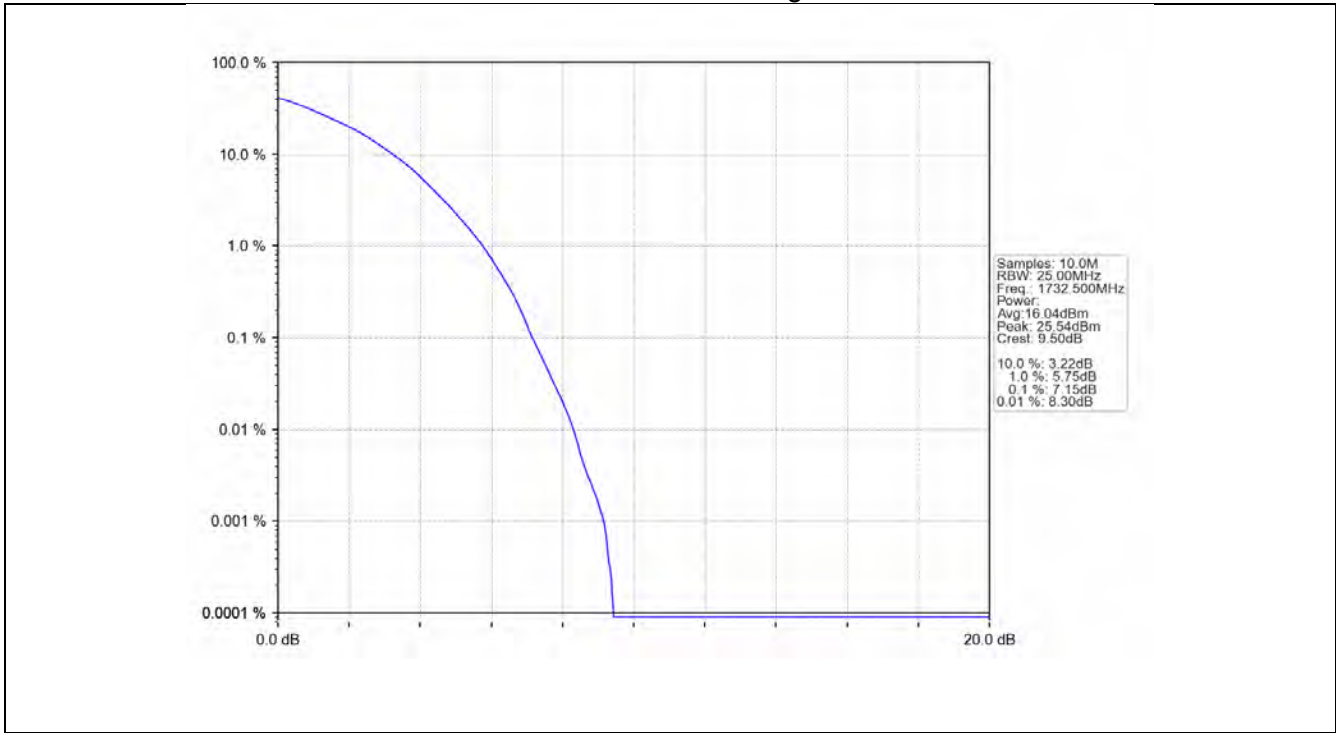
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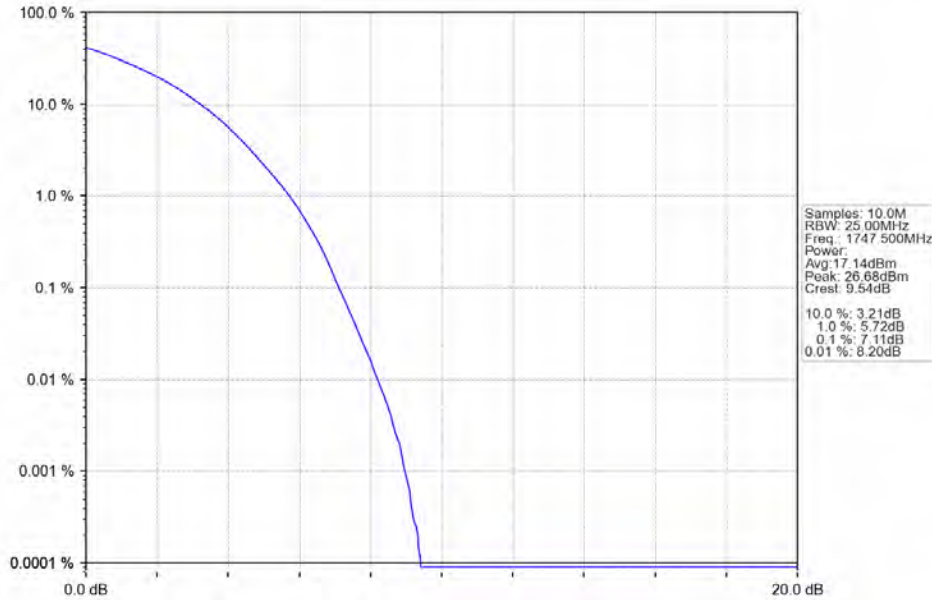


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Band4 15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV



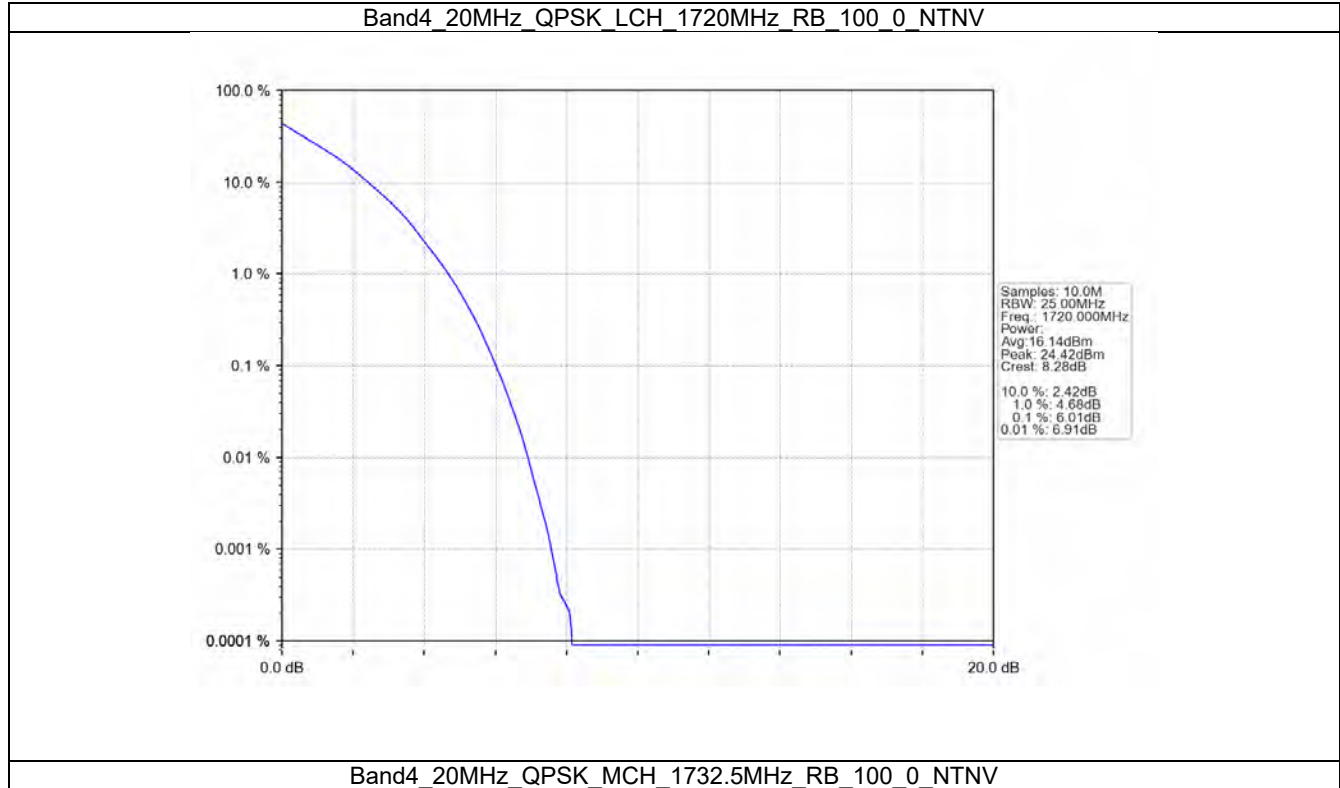
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4.6 B4_20MHz

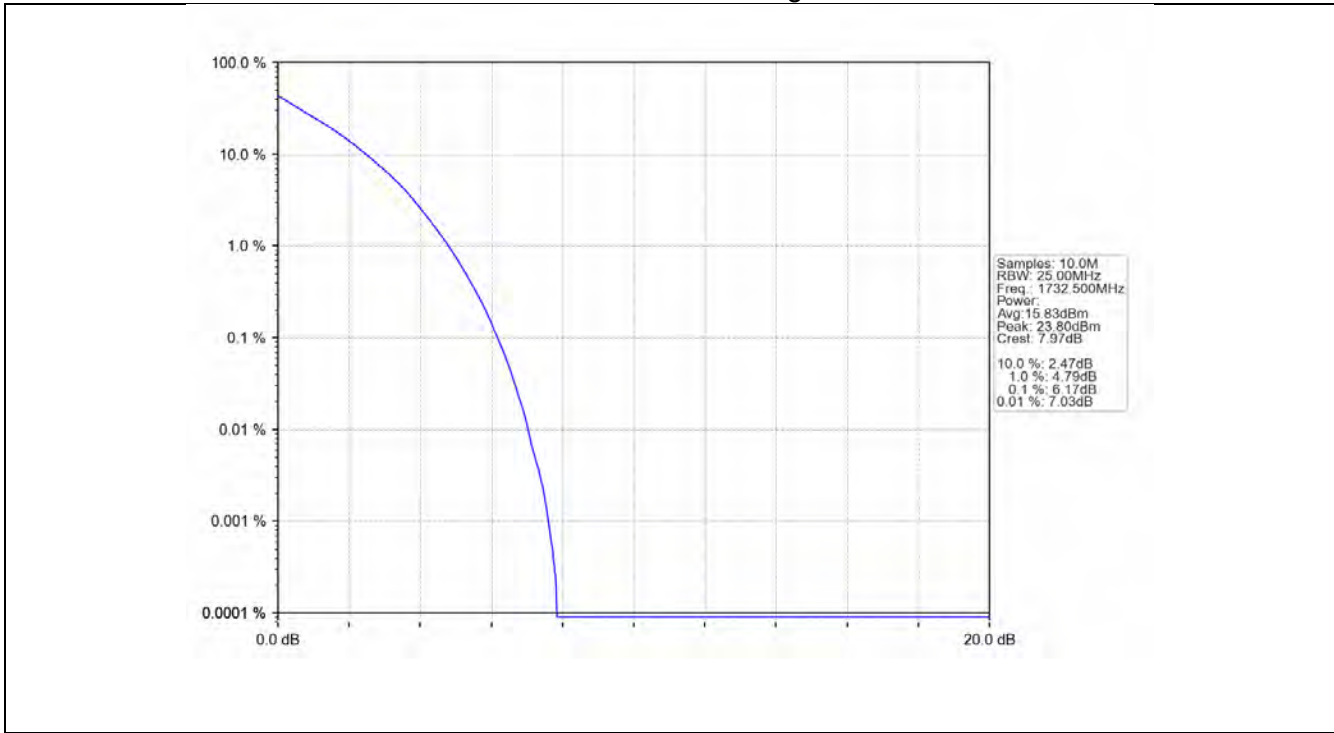
4.6.2 Test Graph



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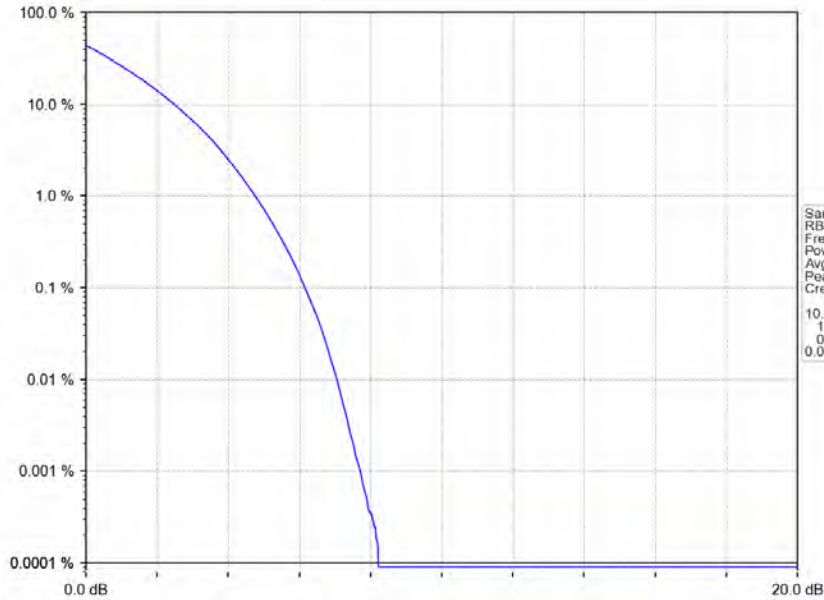


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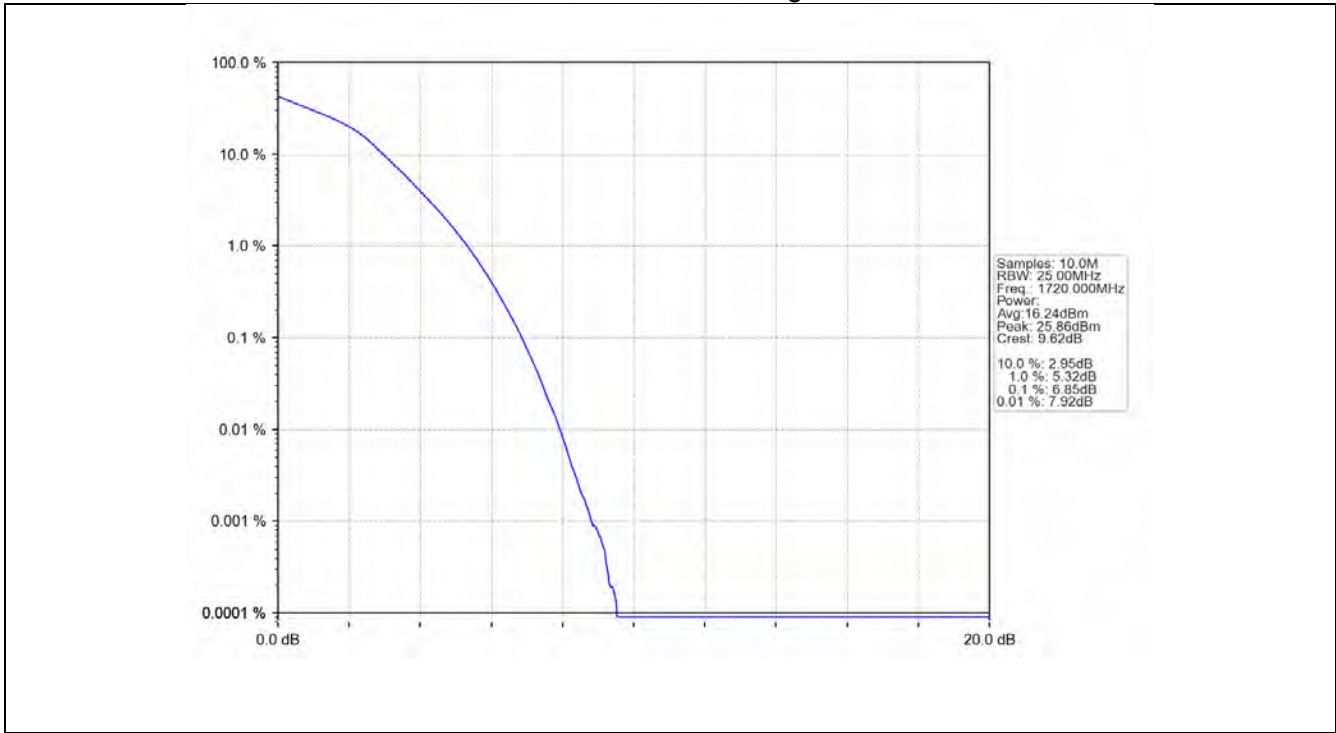
Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1745.000MHz
 Power:
 Avg: 16.55dBm
 Peak: 24.92dBm
 Crest: 8.37dB
 10.0%: 2.48dB
 1.0%: 4.76dB
 0.1%: 6.15dB
 0.01%: 7.05dB

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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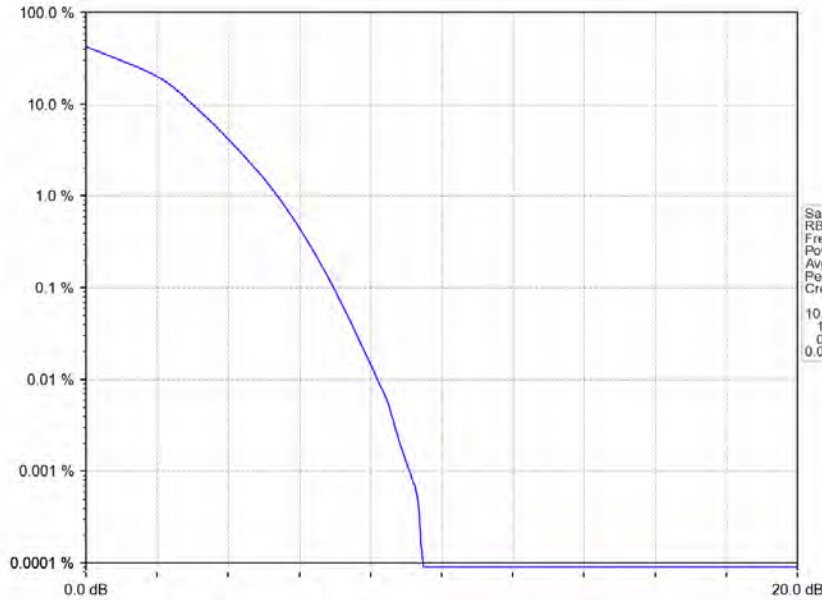


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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1732.500MHz
 Power:
 Avg: 15.93dBm
 Peak: 25.53dBm
 Crest: 9.60dB

Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

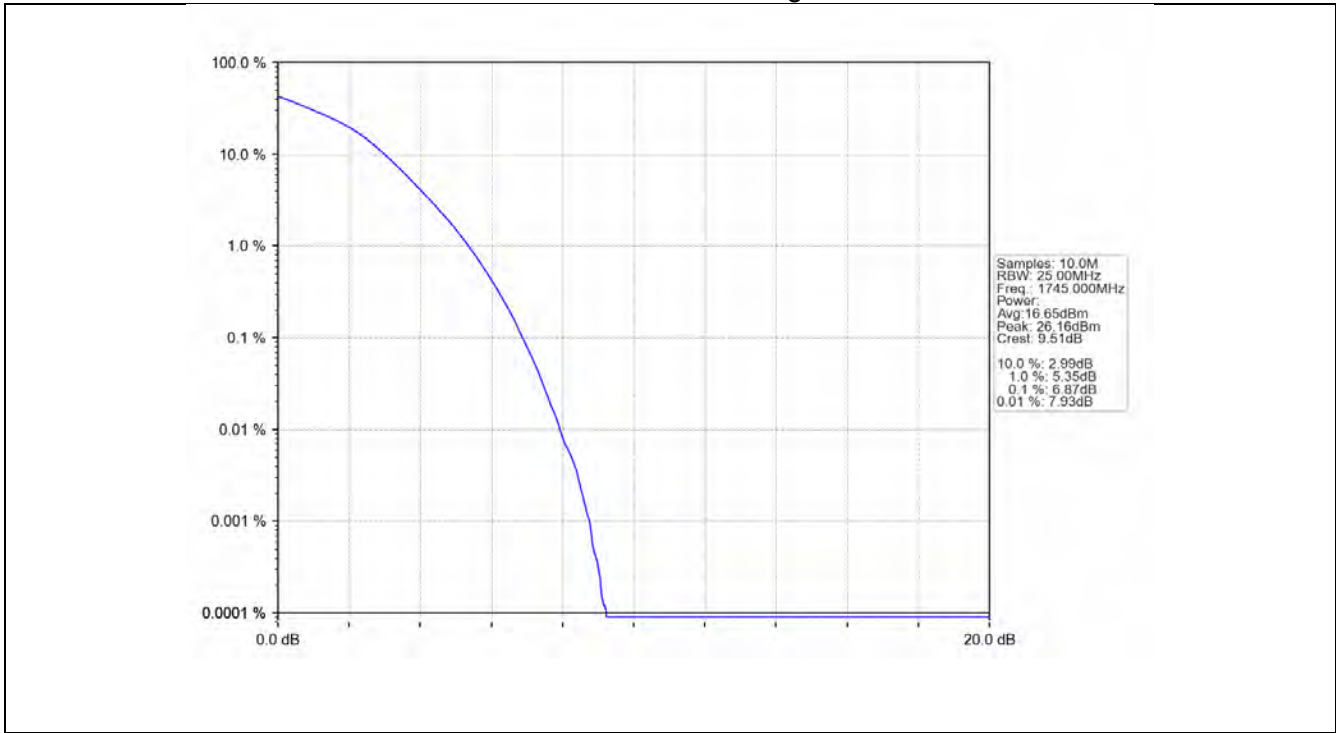


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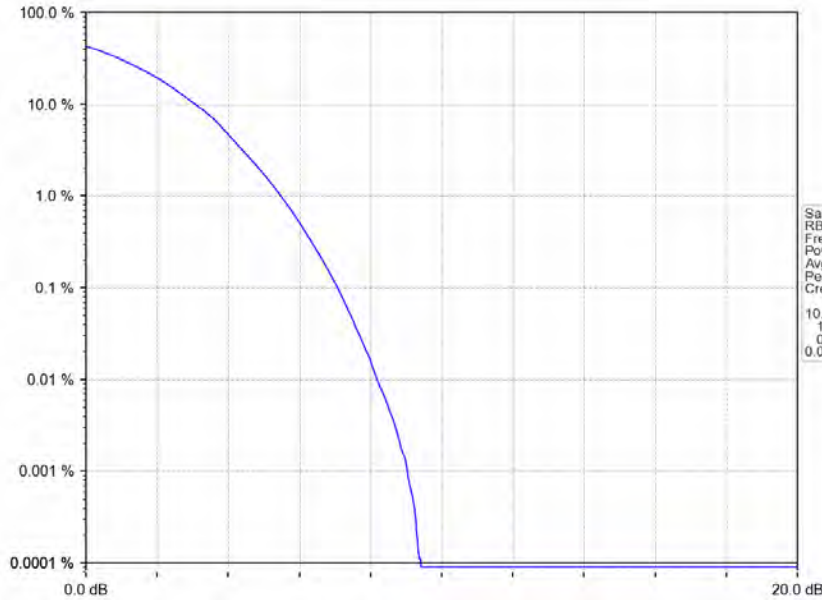


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Rev.: 01

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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1720.000MHz
 Power:
 Avg: 16.23dBm
 Peak: 25.86dBm
 Crest: 9.63dB

Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV

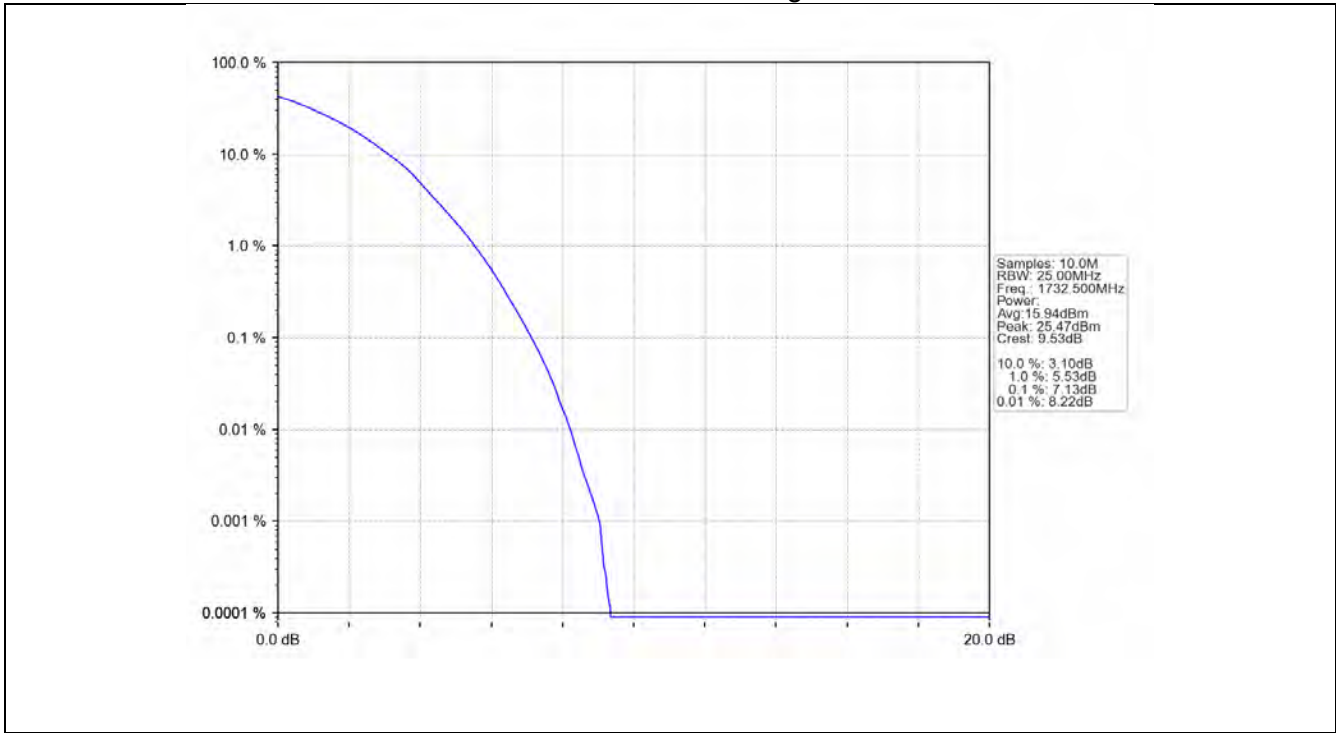


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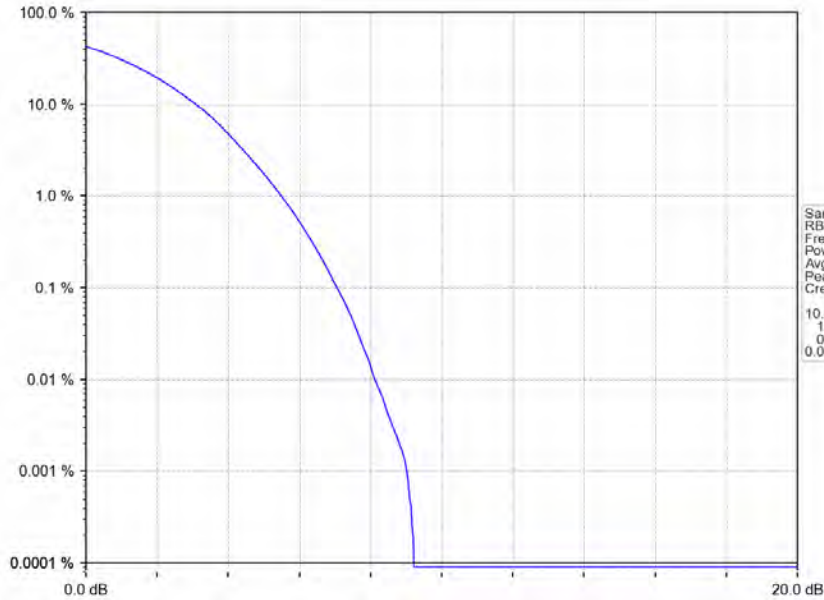


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Band4 20MHz 64QAM HCH 1745MHz RB 100 0 NTN



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1745.000MHz
 Power:
 Avg: 16.65dBm
 Peak: 26.00dBm
 Crest: 9.35dB
 10.0 %: 3.09dB
 1.0 %: 5.49dB
 0.1 %: 7.06dB
 0.01 %: 8.12dB



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5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

5.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

5.2 B4_3MHz

5.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |



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5.3 B4_5MHz

5.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTN | | | | | | |
|---------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

5.4 B4_10MHz

5.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

5.5 B4_15MHz

5.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |



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5.6 B4_20MHz

5.6.1 Test Result

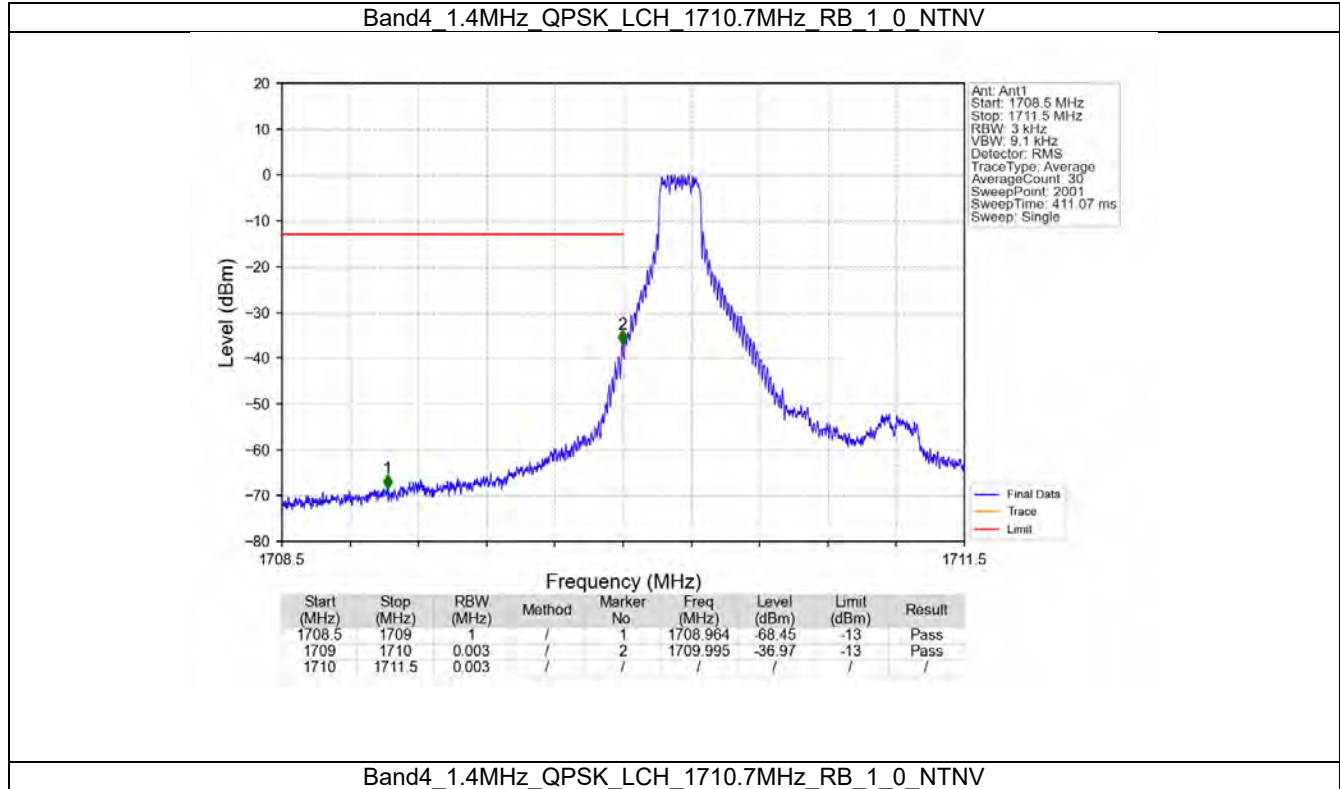
Table with columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Spurious Emission (Result, Limit), Verdict. Data rows for QPSK at 1720 and 1745 MHz.



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5.1 B4_1.4MHz

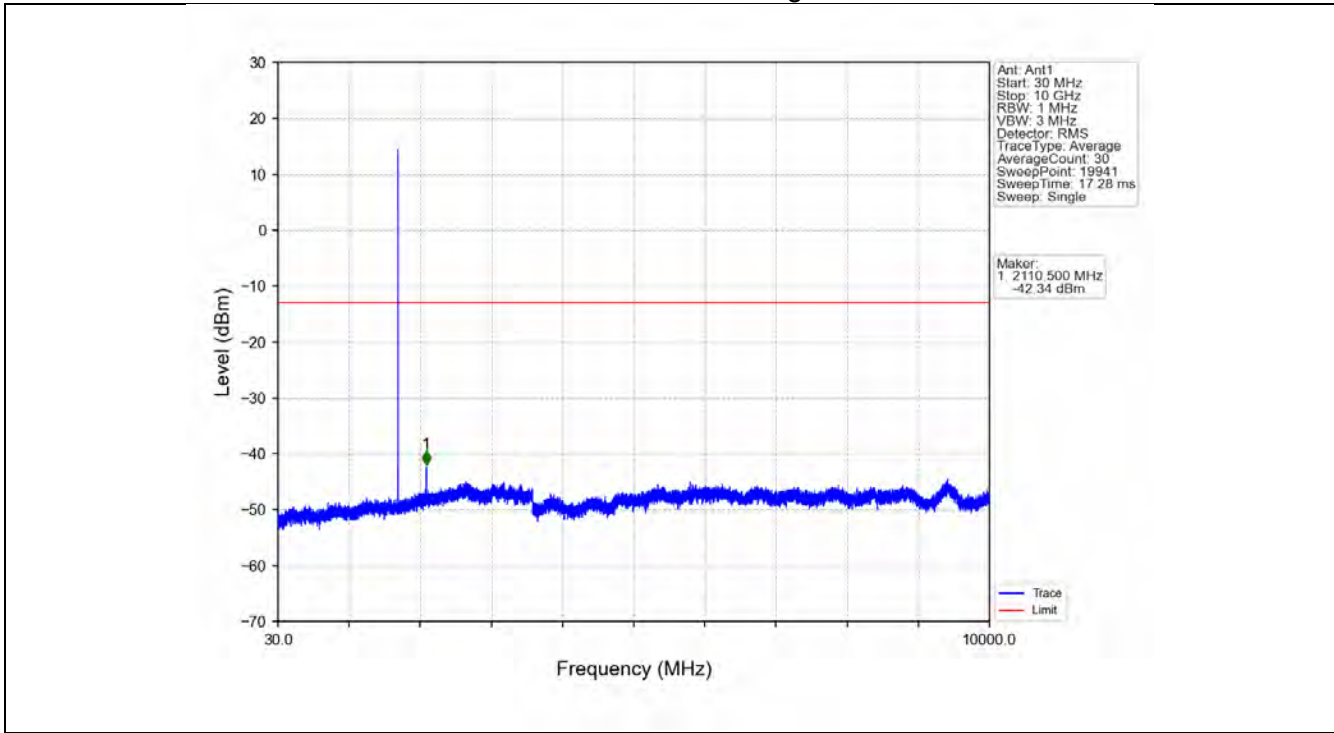
5.1.2 Test Graph



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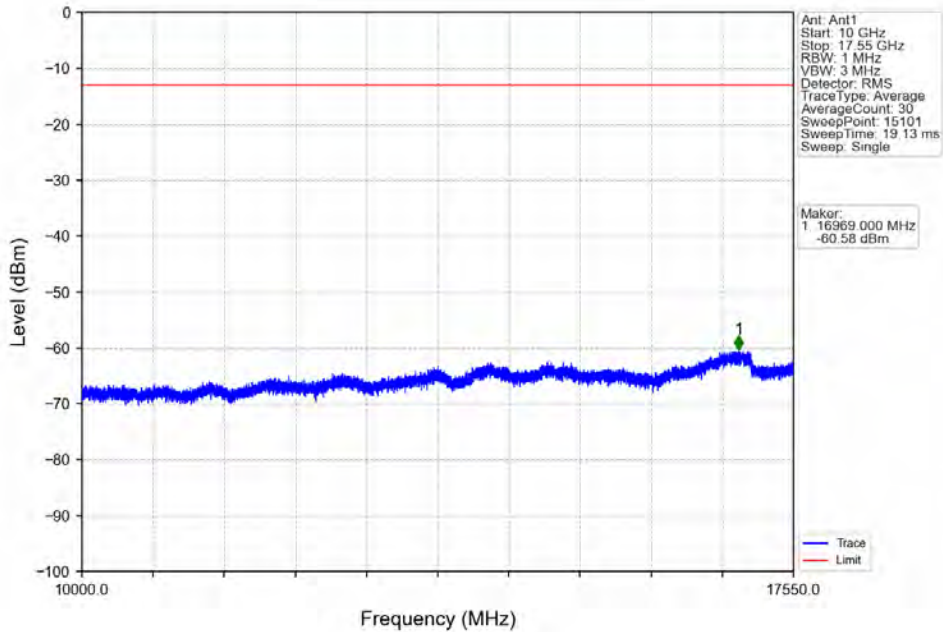


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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

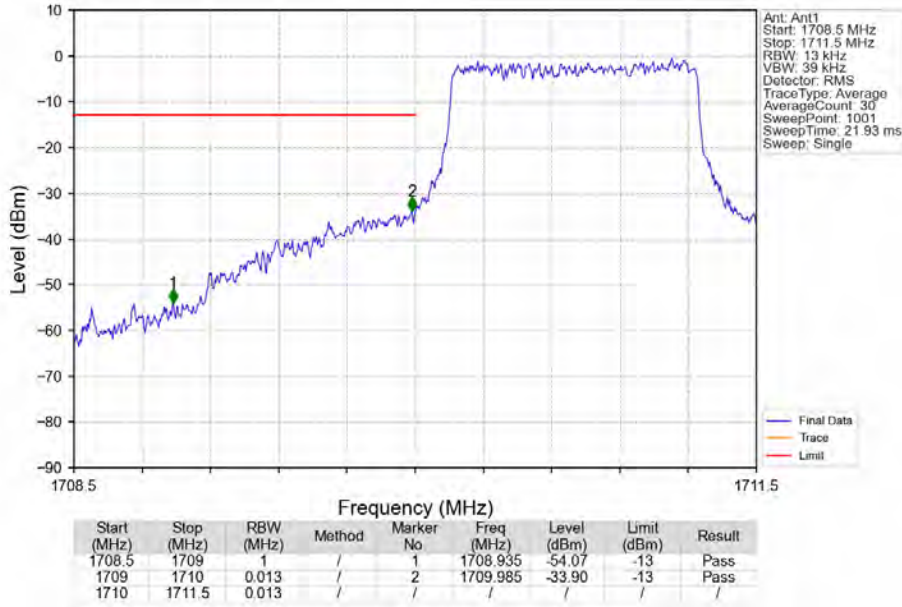


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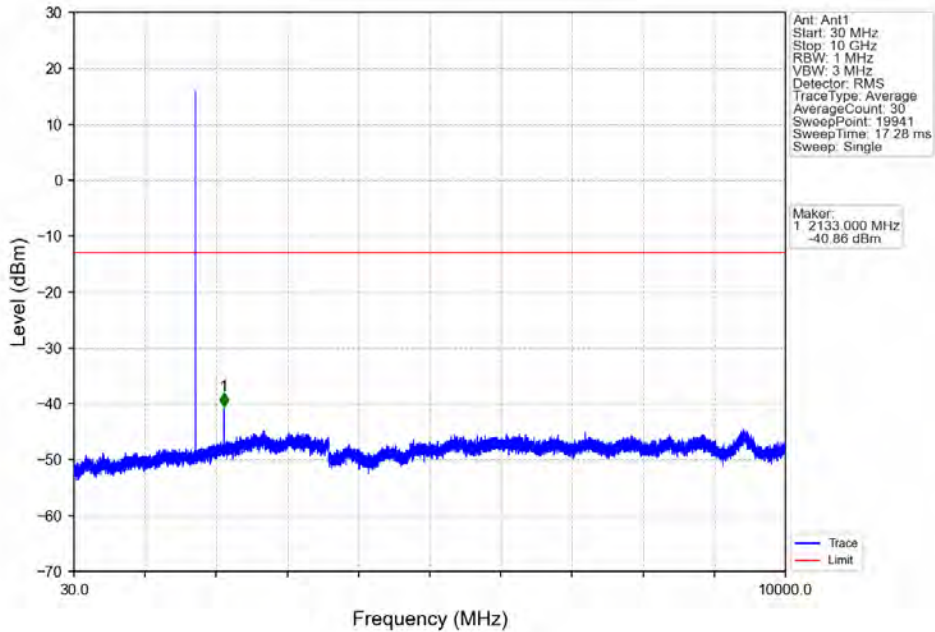


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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

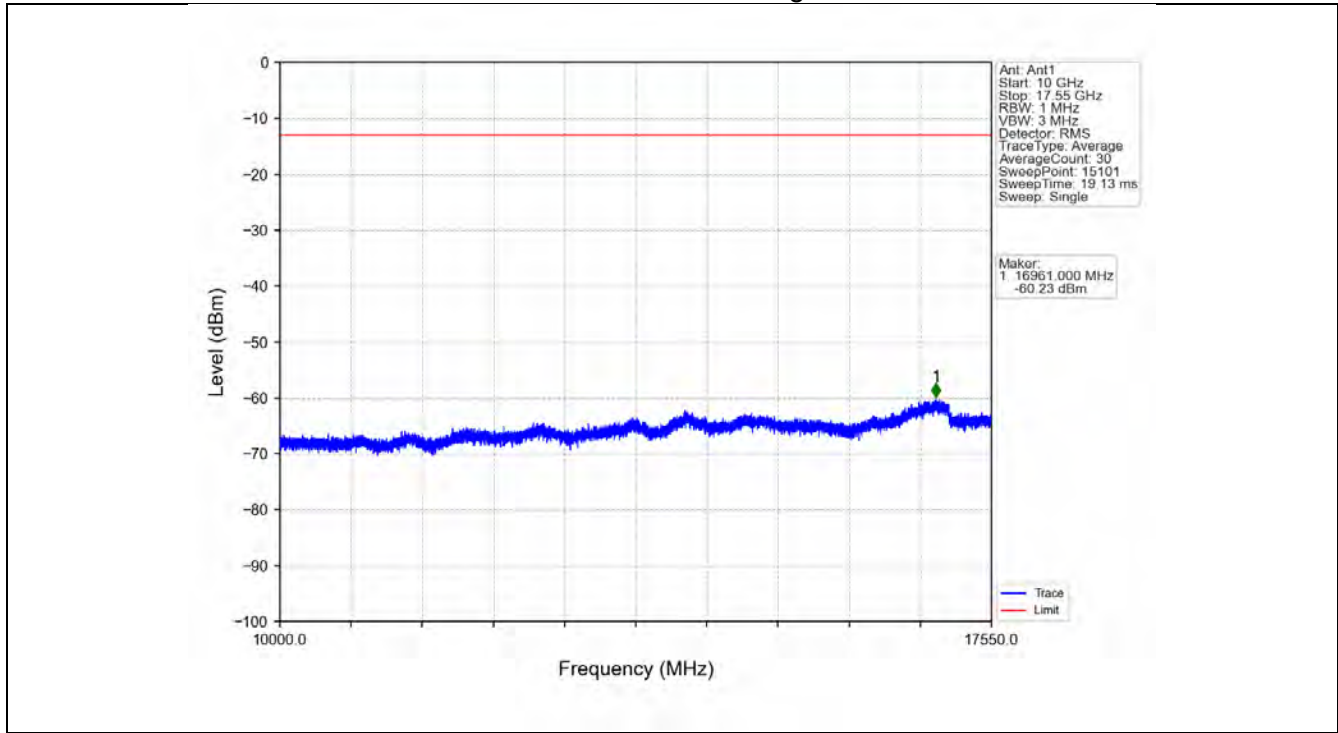


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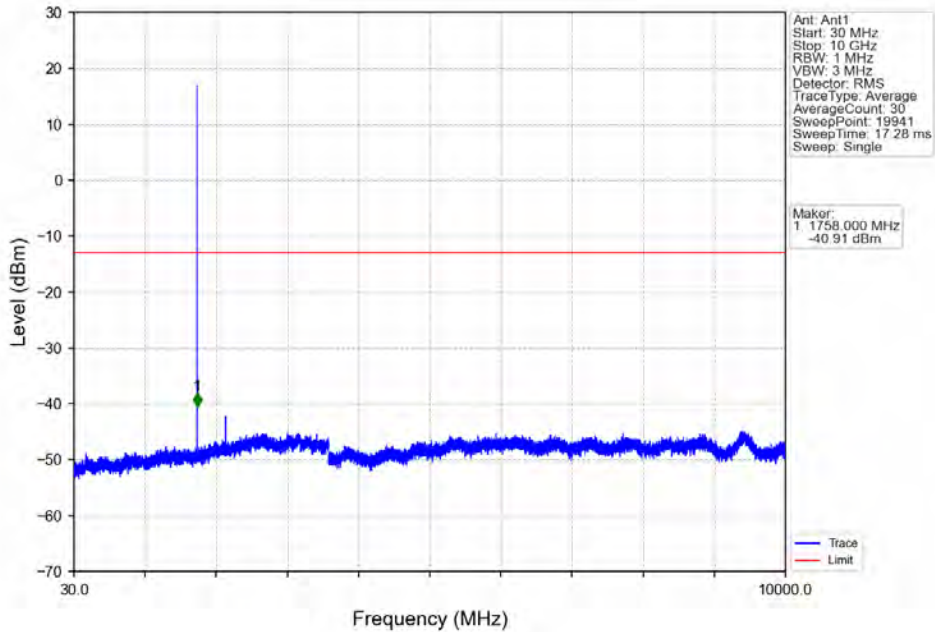


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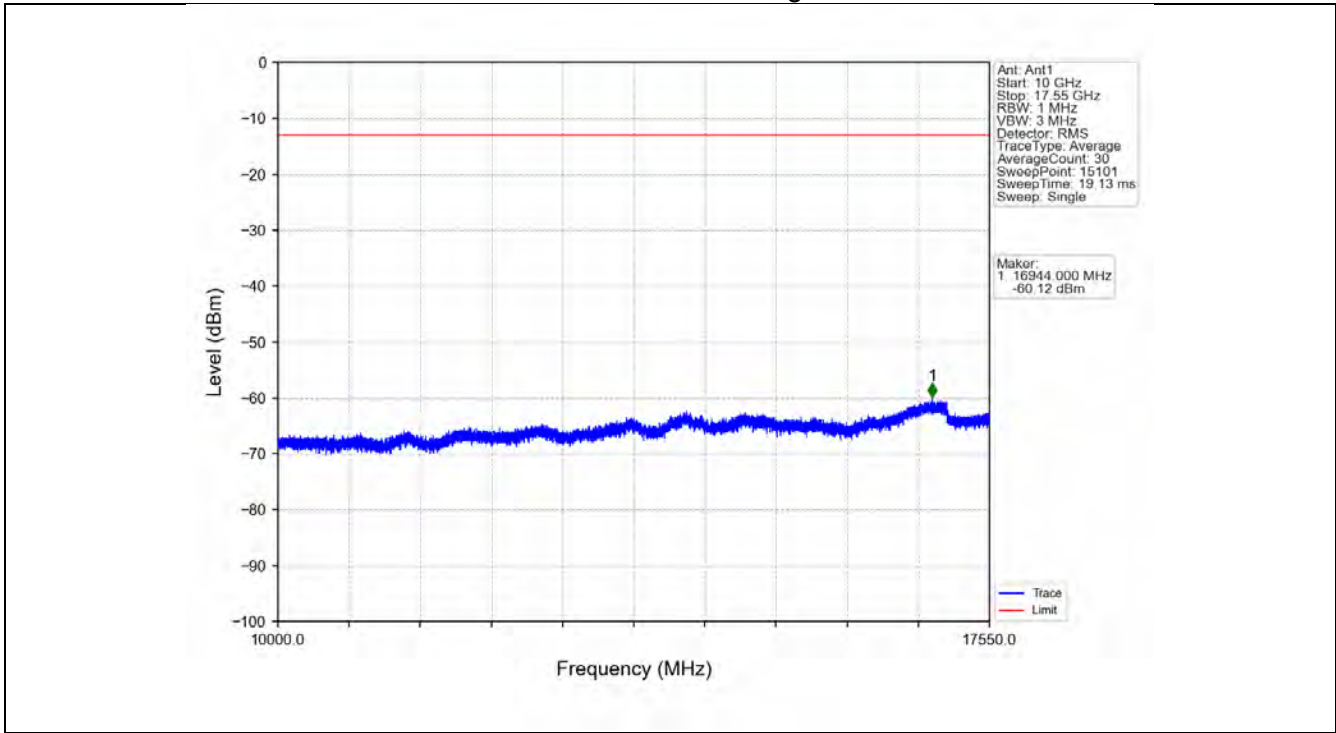


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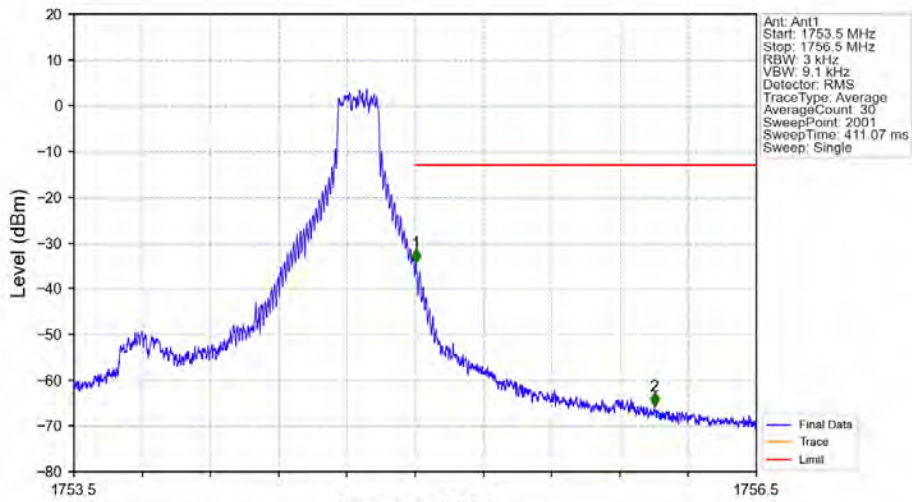


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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1753.5 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.003 | -34.38 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.052 | -65.73 | -13 | Pass |

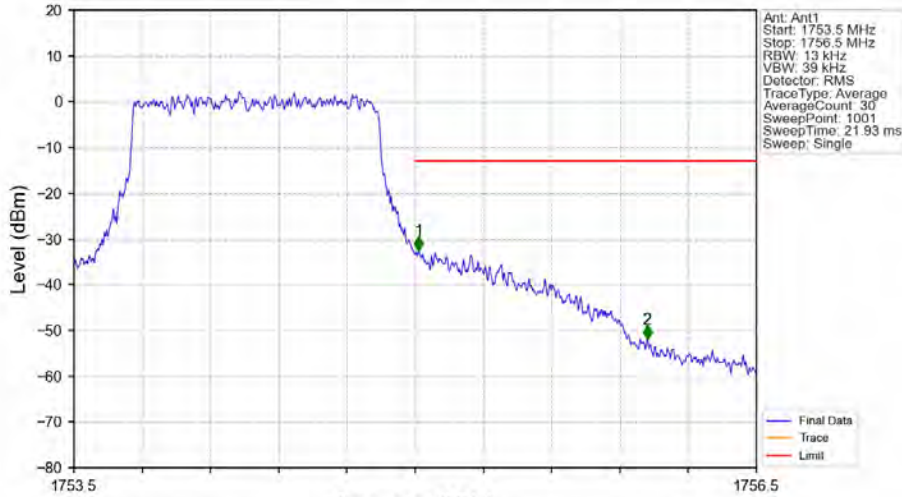
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTV



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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1753.5 | 1755 | 0.013 | / | 1 | 1755.015 | -32.52 | -13 | Pass |
| 1755 | 1756.5 | 1 | / | 2 | 1756.020 | -51.90 | -13 | Pass |

Ant: Ant1
 Start: 1753.5 MHz
 Stop: 1756.5 MHz
 RBW: 13 kHz
 VBW: 39 kHz
 Detector: RMS
 Trace Type: Average
 Average Count: 30
 Sweep Point: 1001
 Sweep Time: 21.93 ms
 Sweep: Single

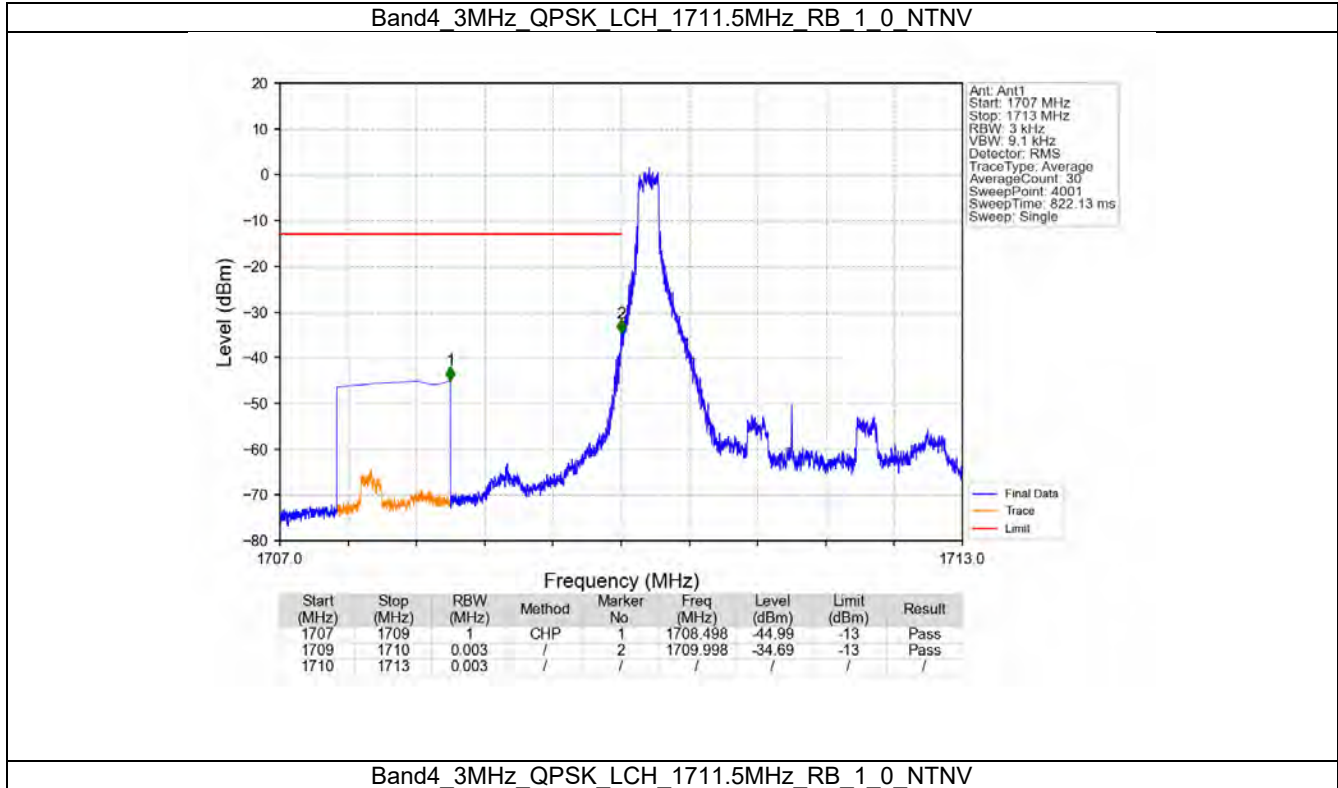


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5.2 B4_3MHz

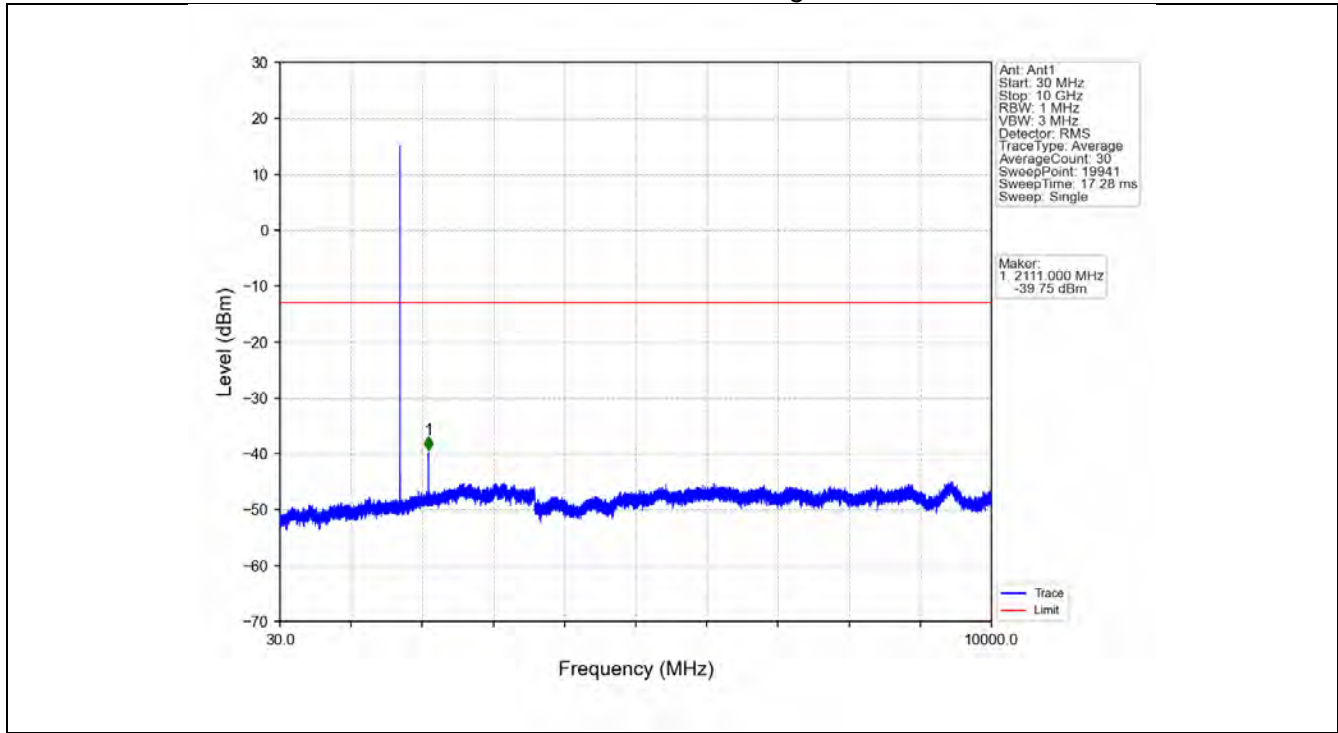
5.2.2 Test Graph



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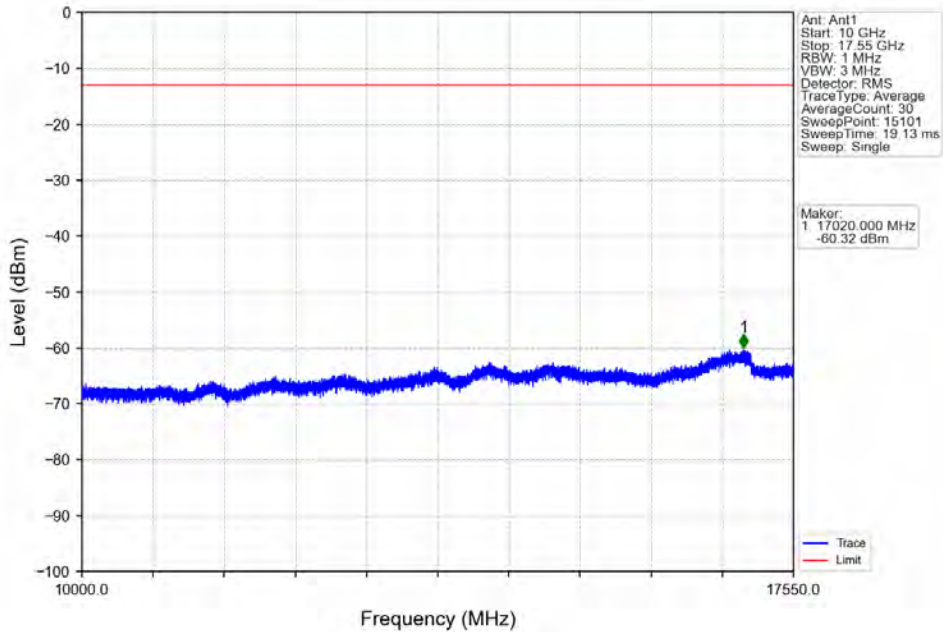


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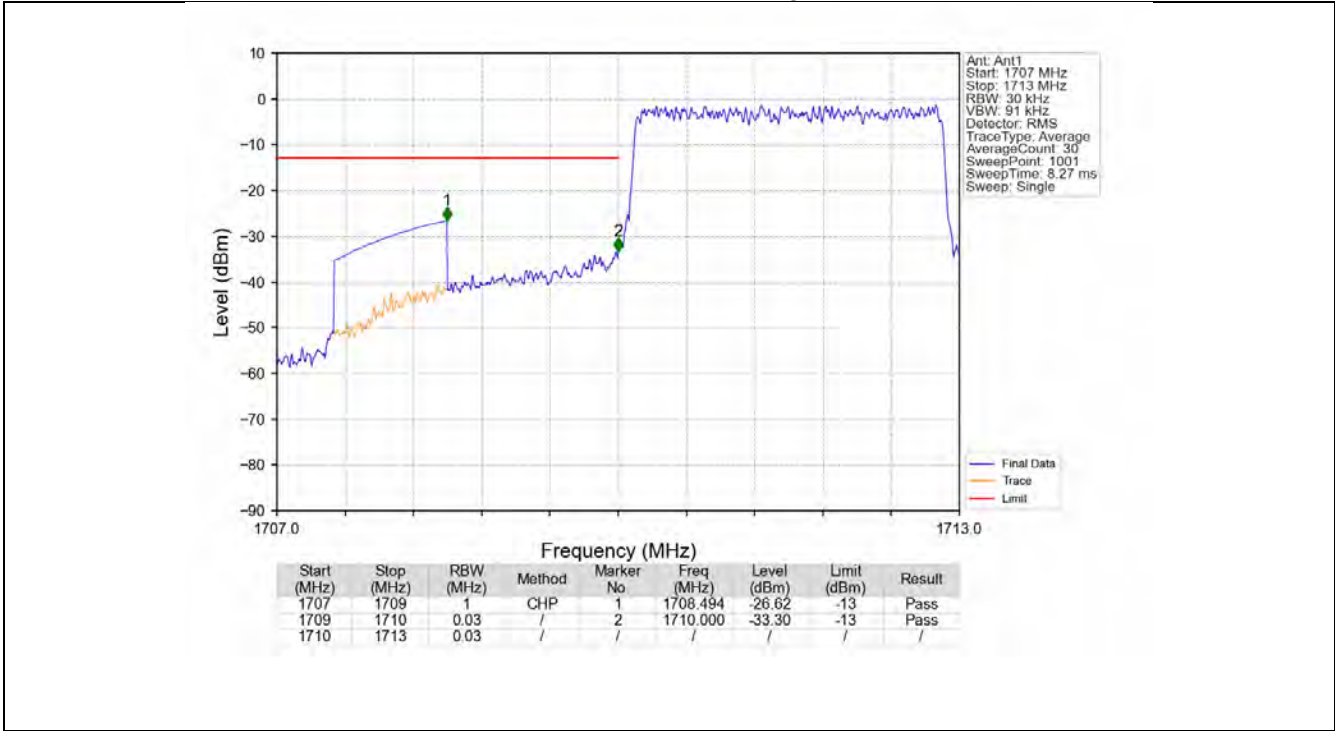


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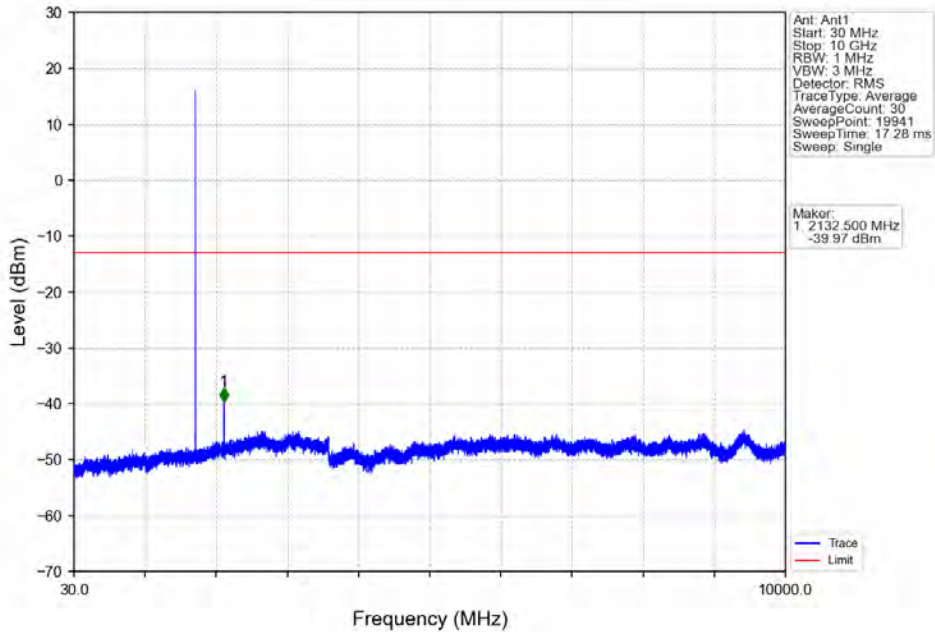


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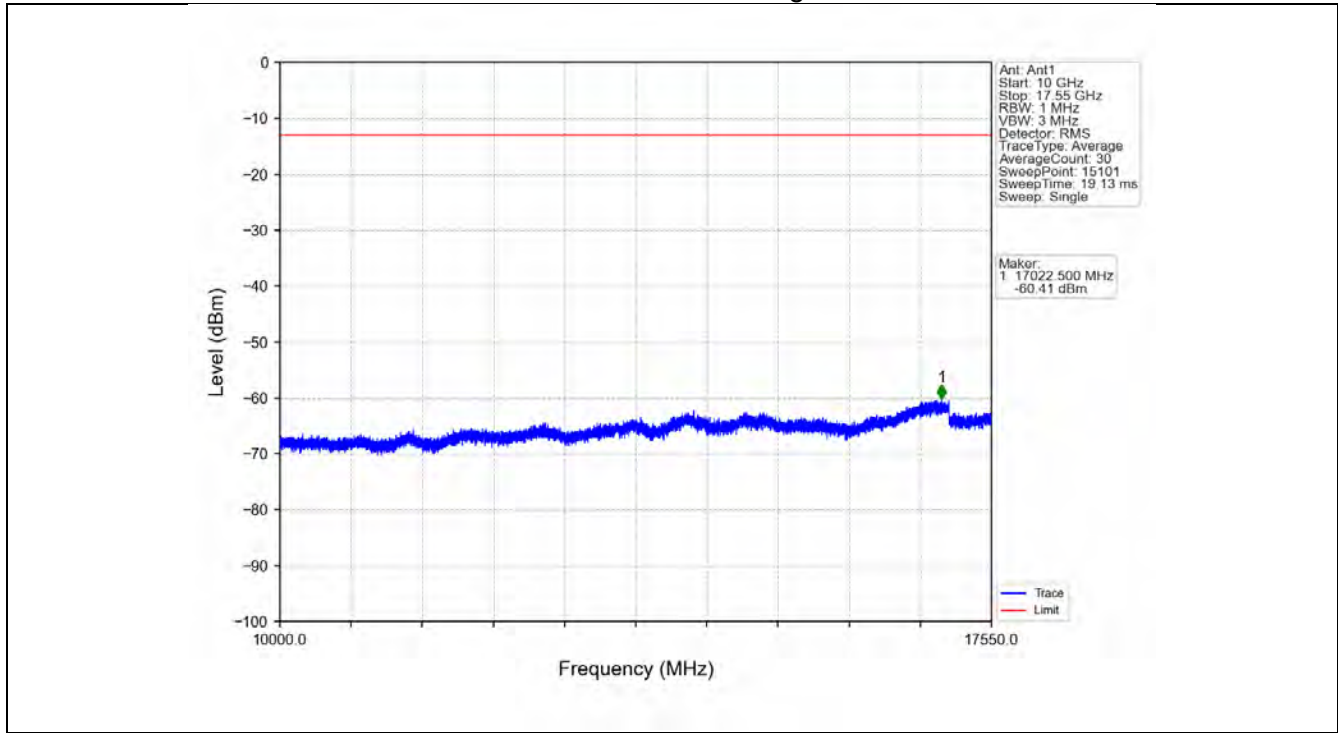


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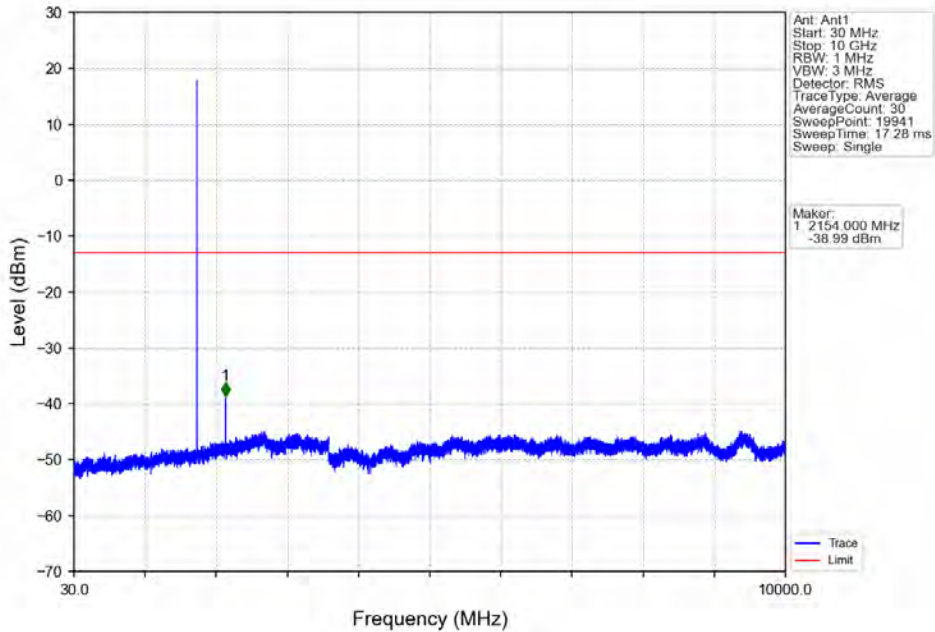


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

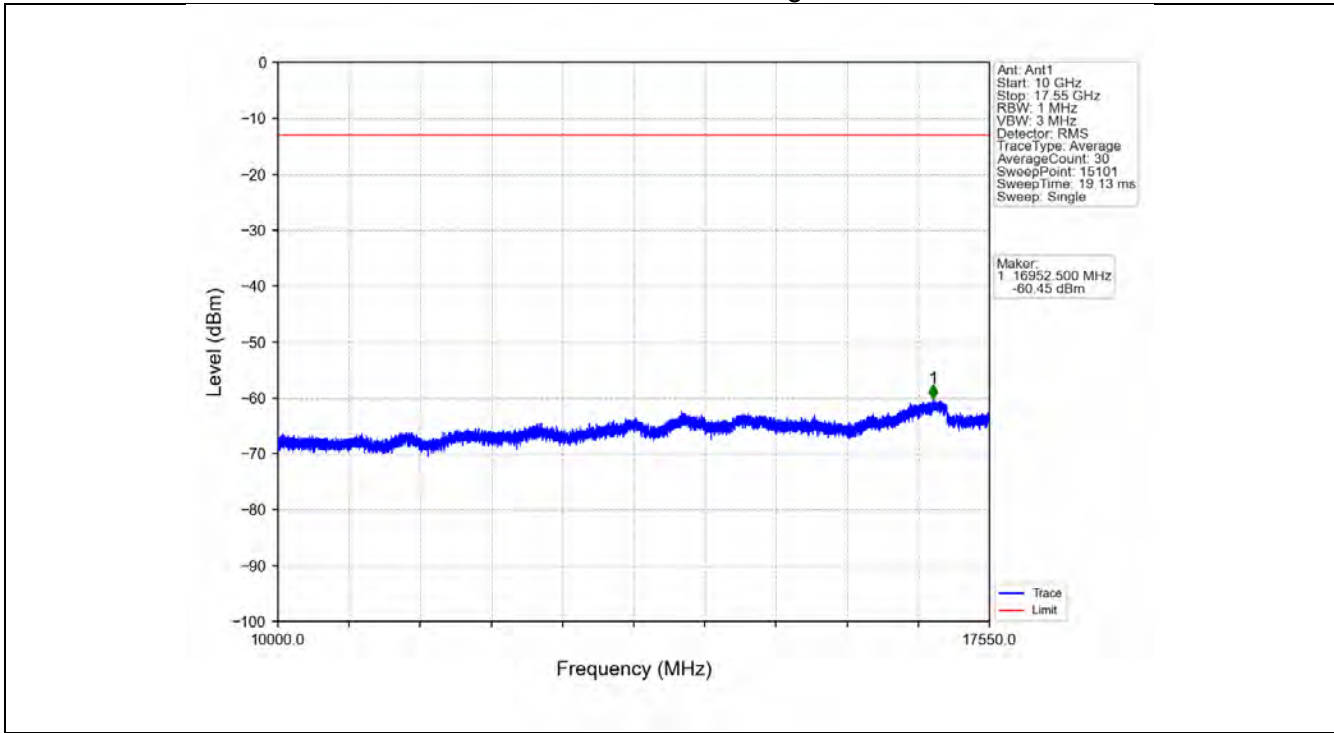


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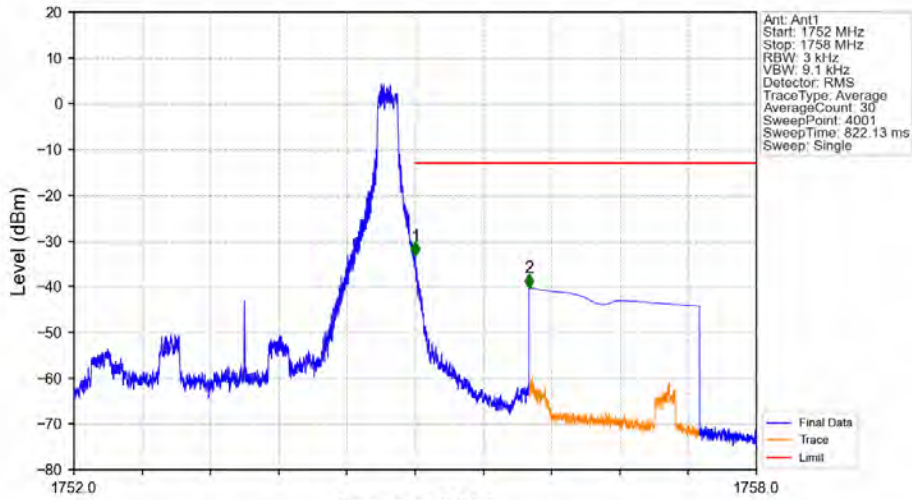


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1752 | 1755 | 0.003 | / | 1 | 1755.002 | -33.31 | -13 | Pass |
| 1755 | 1756 | 0.003 | / | 1 | 1755.002 | -33.31 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.001 | -40.23 | -13 | Pass |

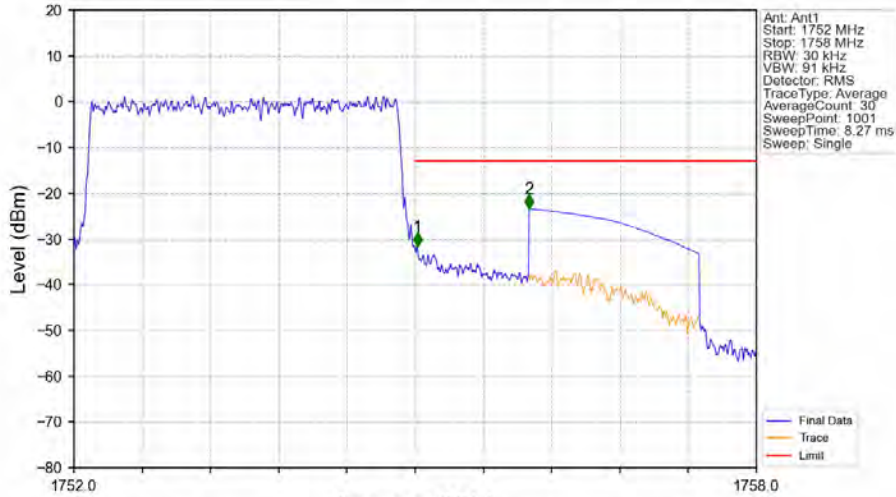
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1752 | 1755 | 0.03 | / | / | / | / | / | / |
| 1755 | 1756 | 0.03 | / | 1 | 1755.018 | -31.71 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.002 | -23.41 | -13 | Pass |



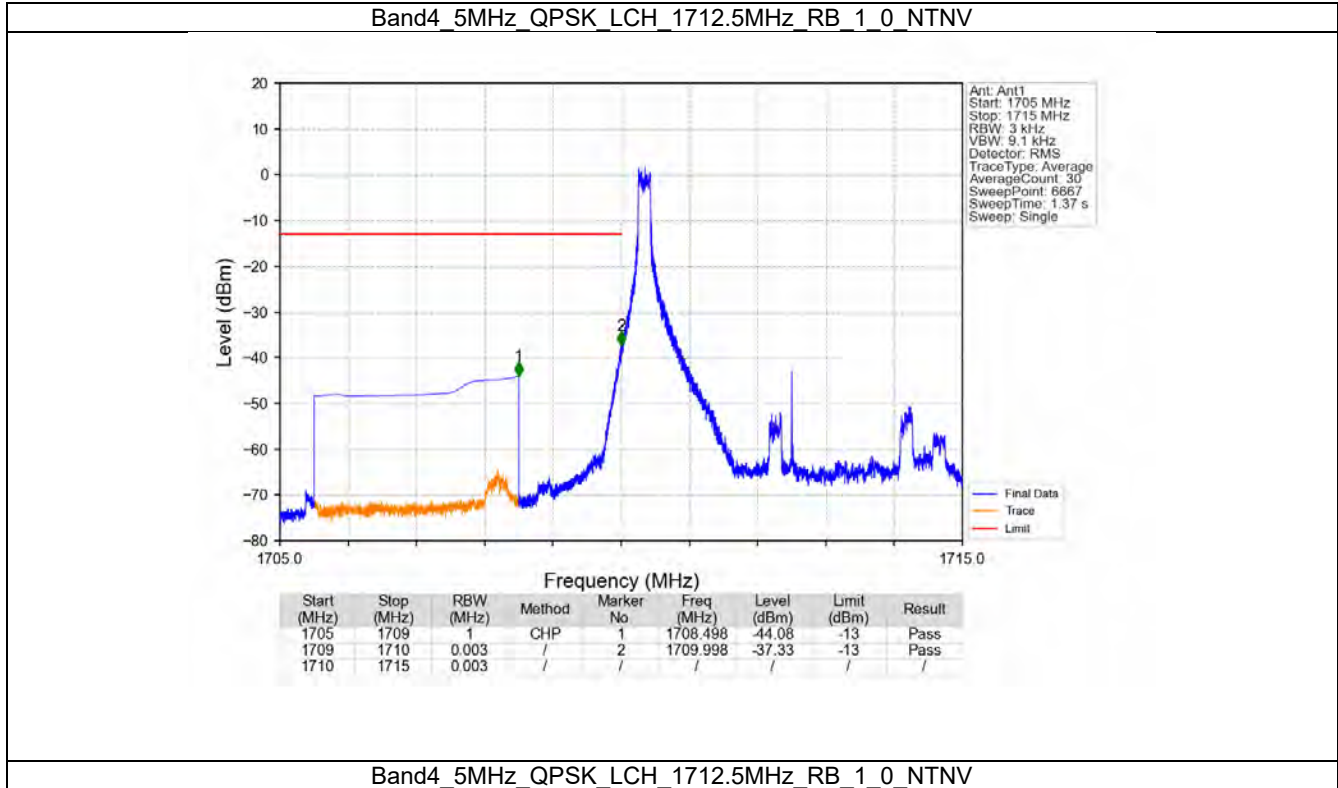
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5.3 B4_5MHz

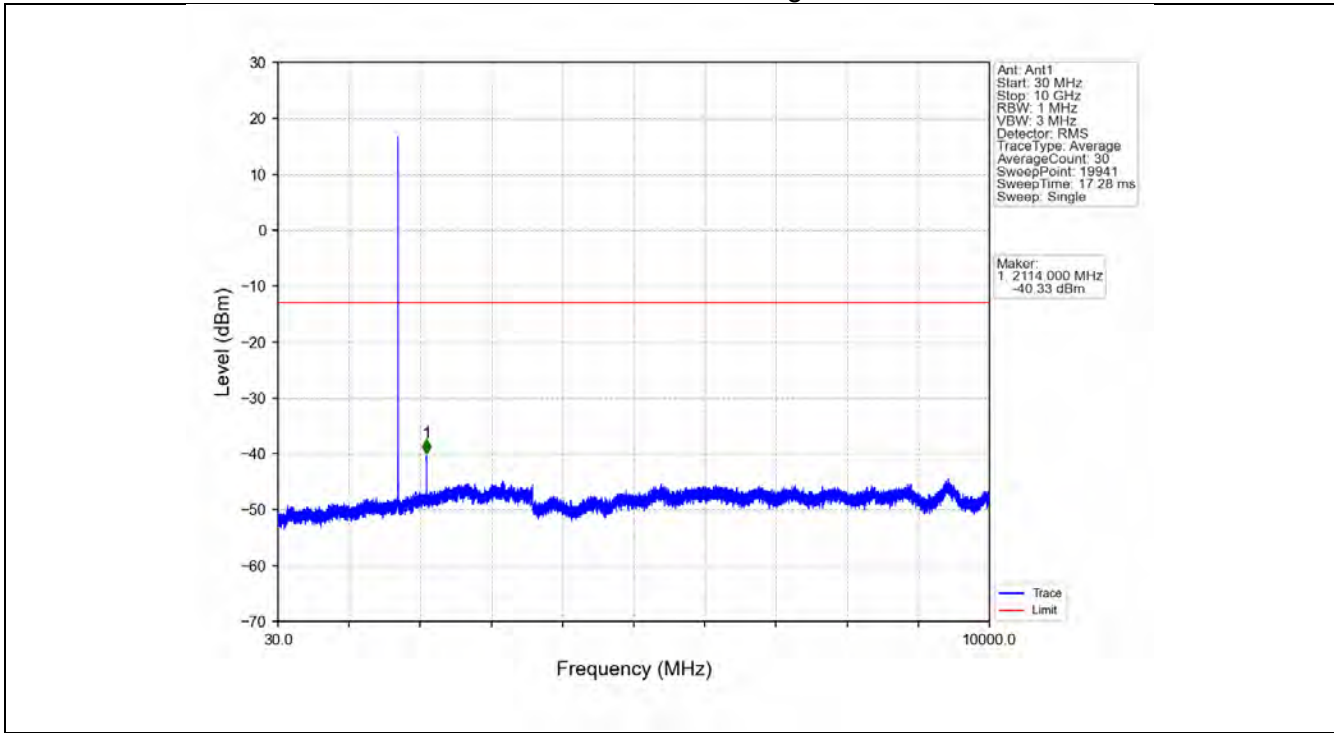
5.3.2 Test Graph



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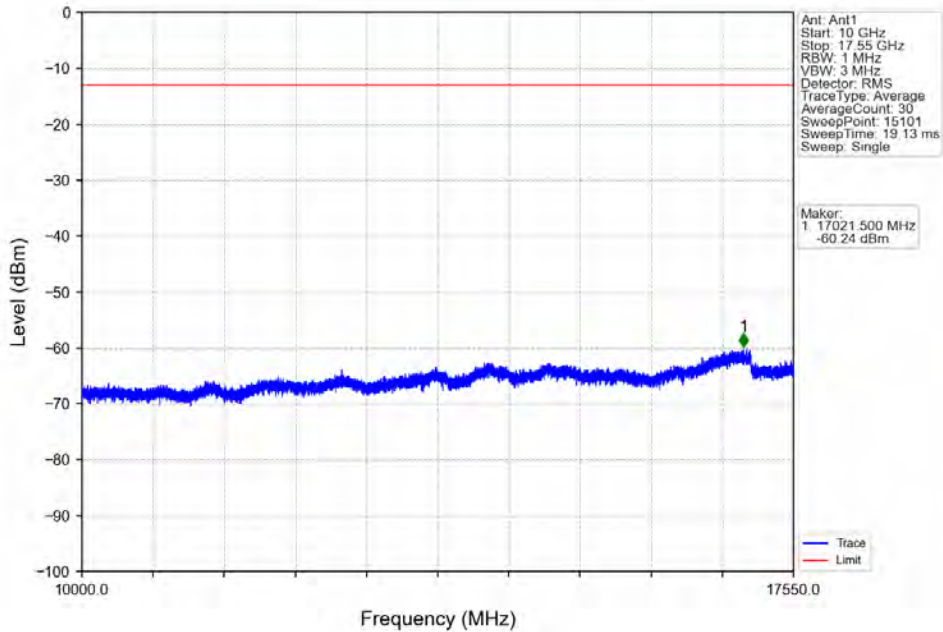


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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

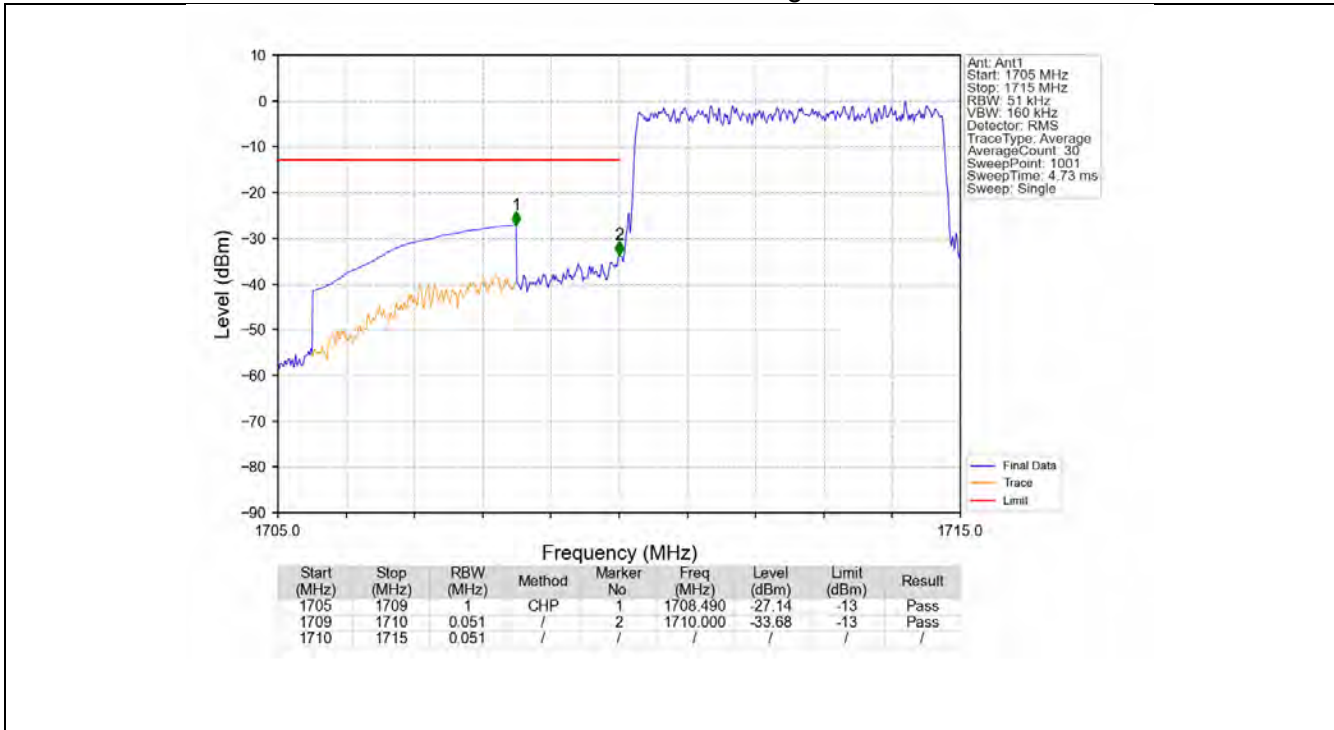


Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



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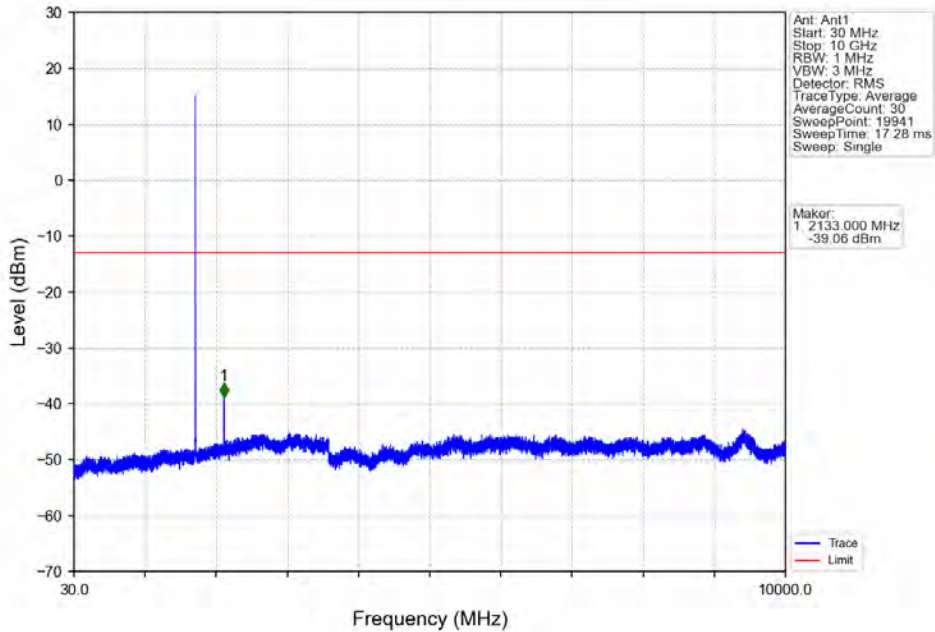


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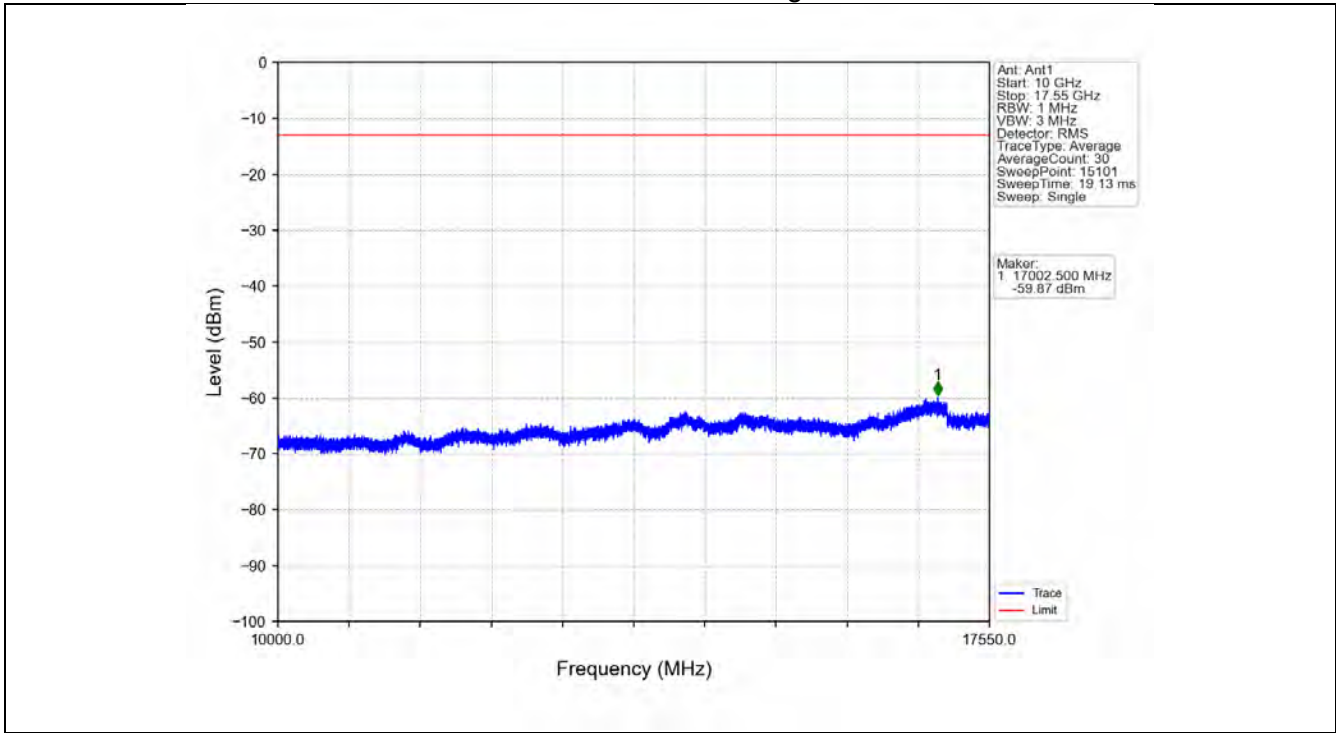
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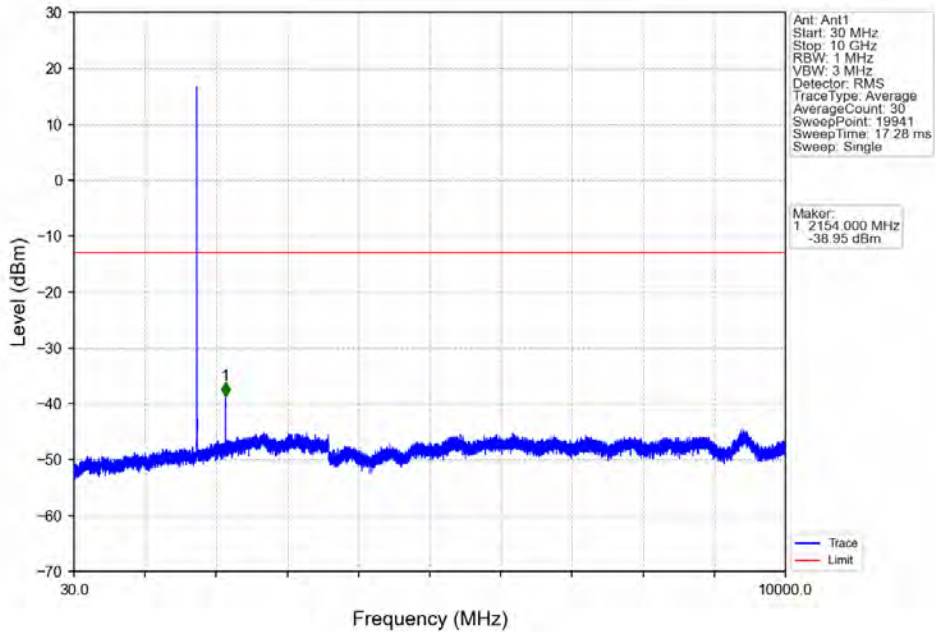


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

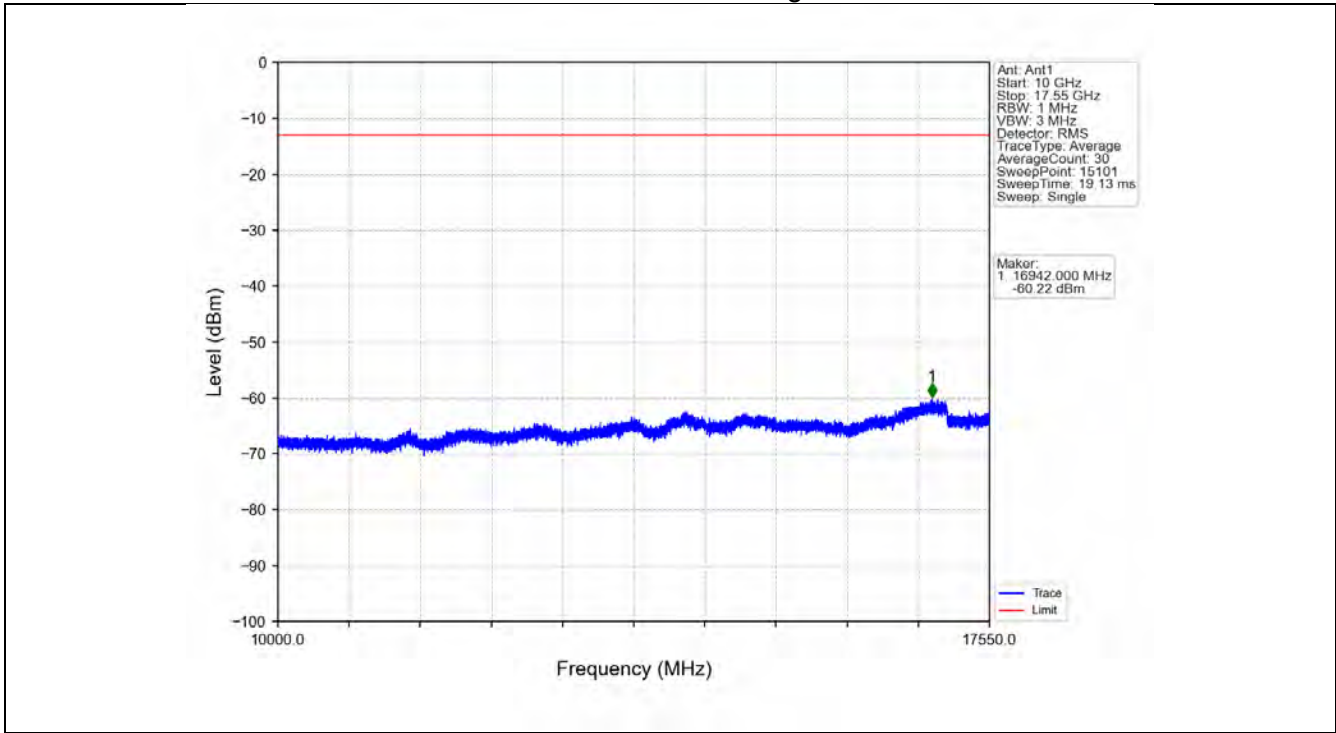


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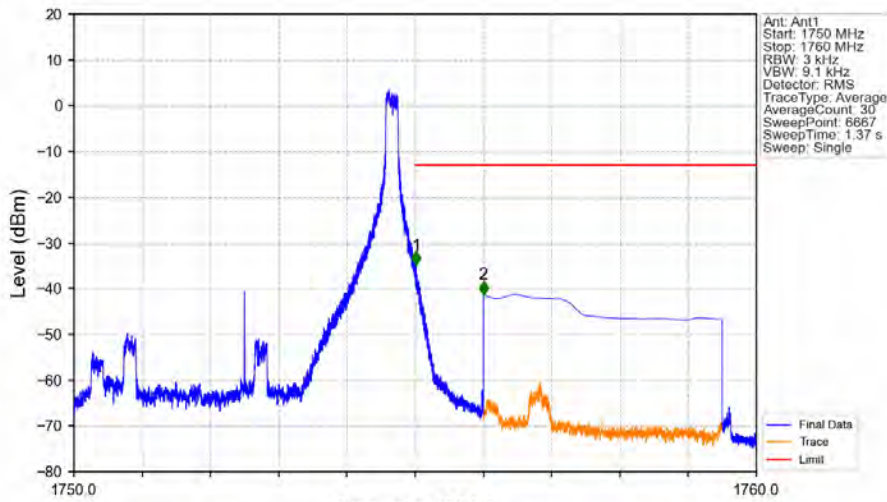


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1750 | 1755 | 0.003 | / | 1 | 1755.014 | -34.79 | -13 | Pass |
| 1755 | 1760 | 1 | CHP | 2 | 1756.001 | -41.30 | -13 | Pass |

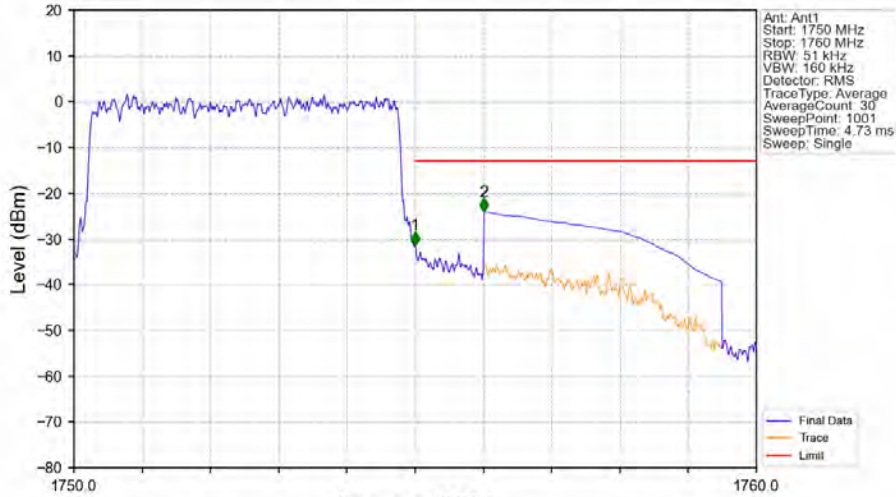
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1750 | 1755 | 0.051 | / | 1 | 1755.000 | -31.41 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.010 | -24.12 | -13 | Pass |



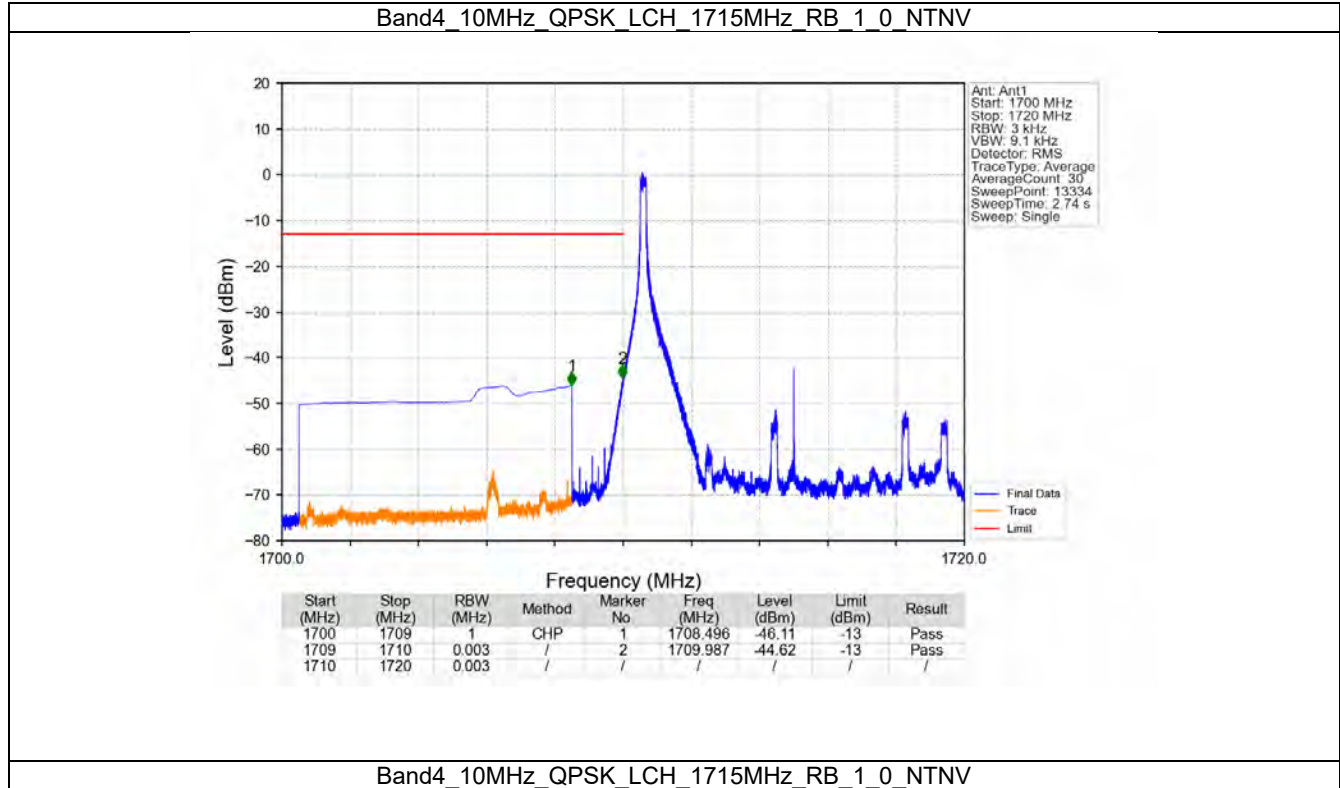
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5.4 B4_10MHz

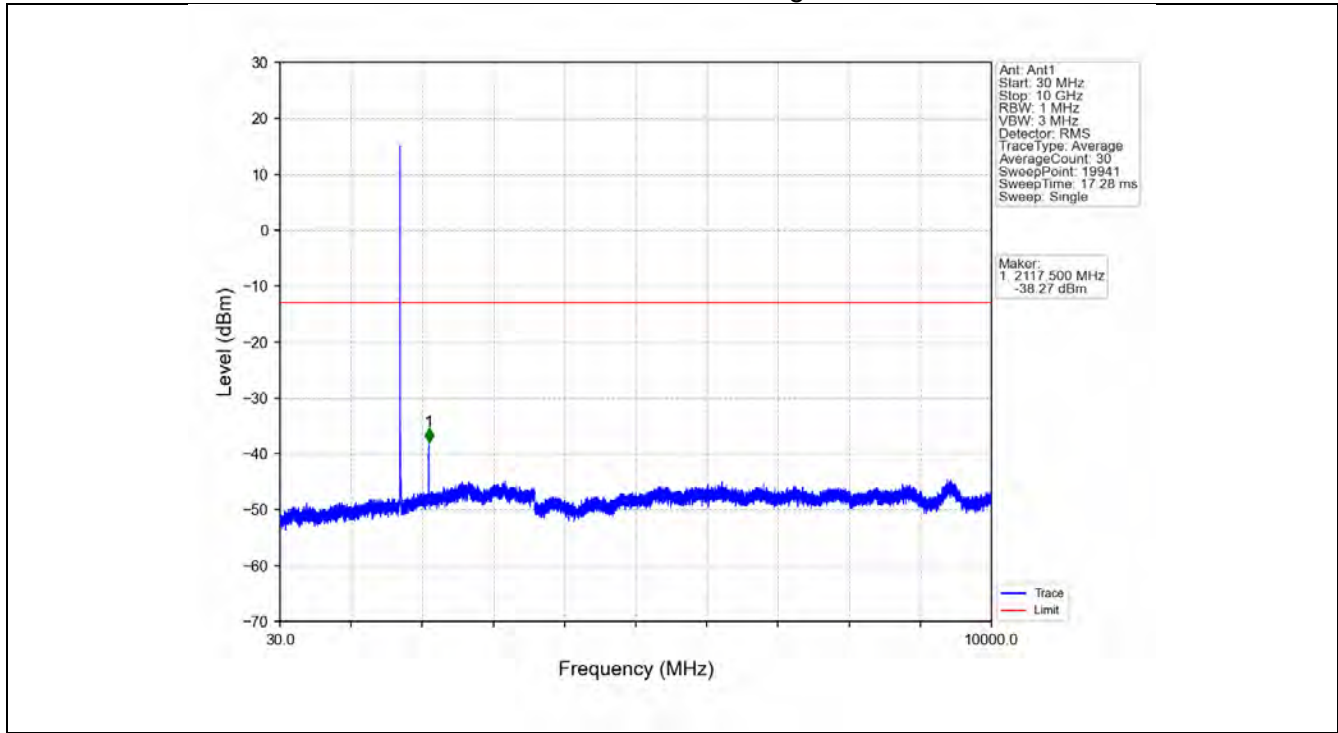
5.4.2 Test Graph



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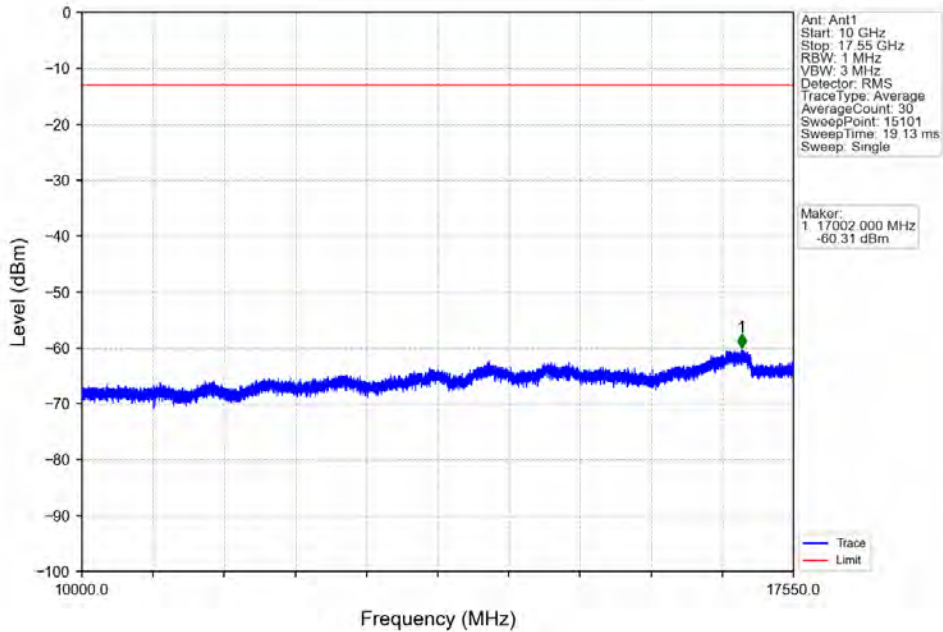


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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



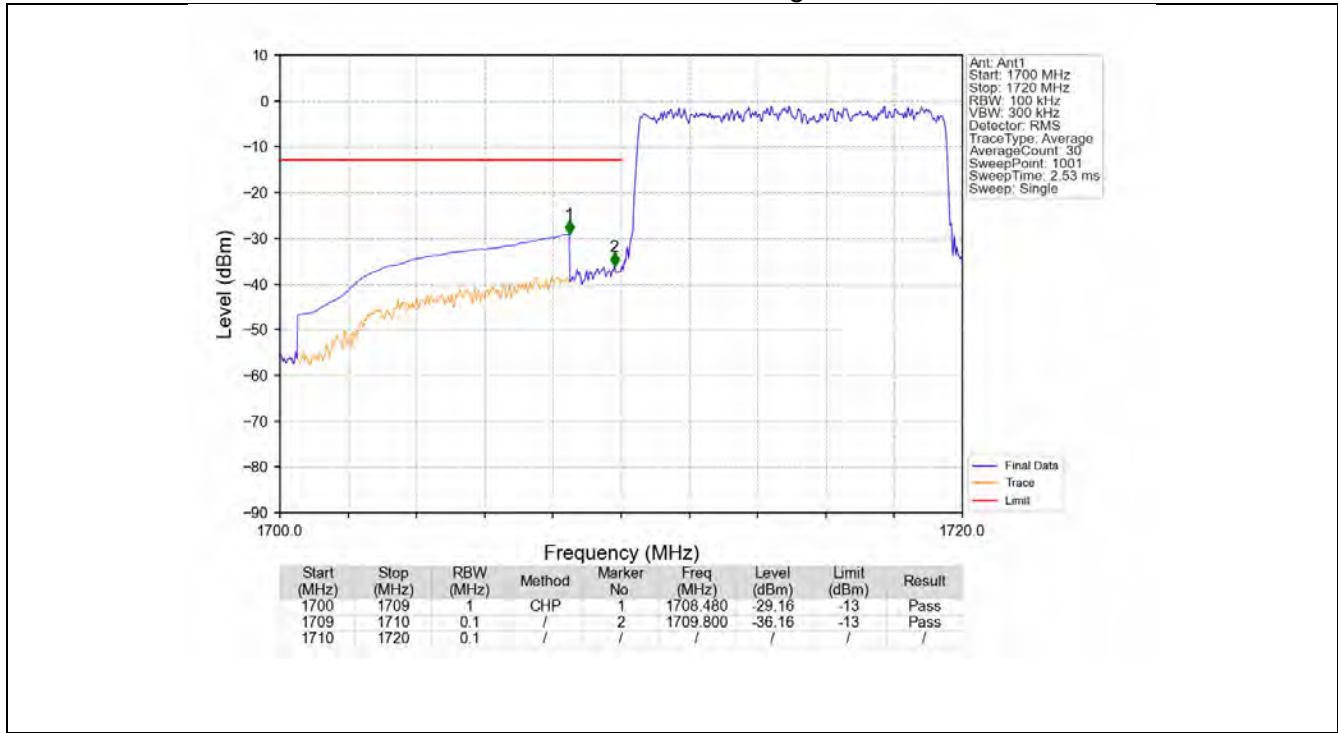
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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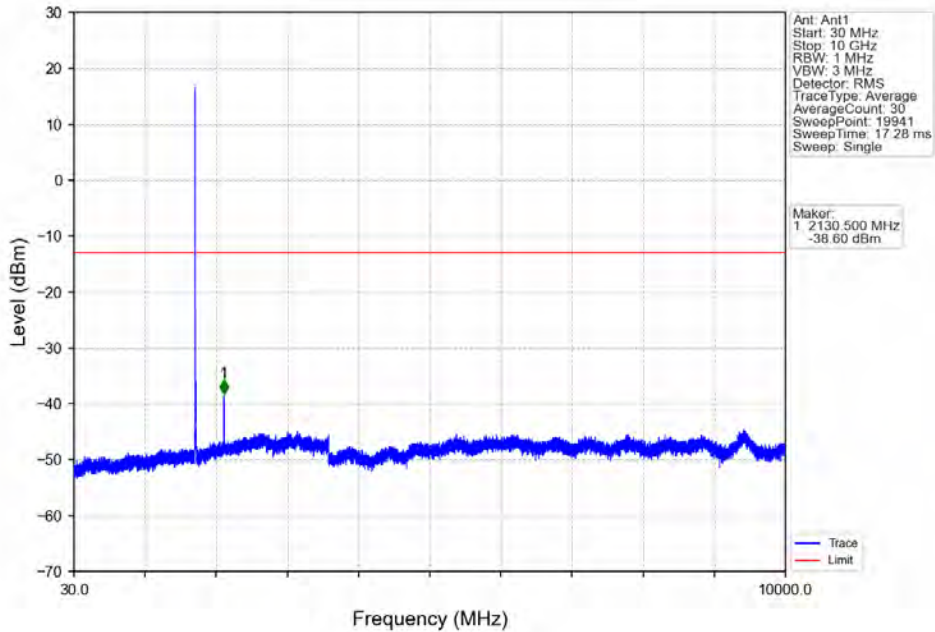


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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

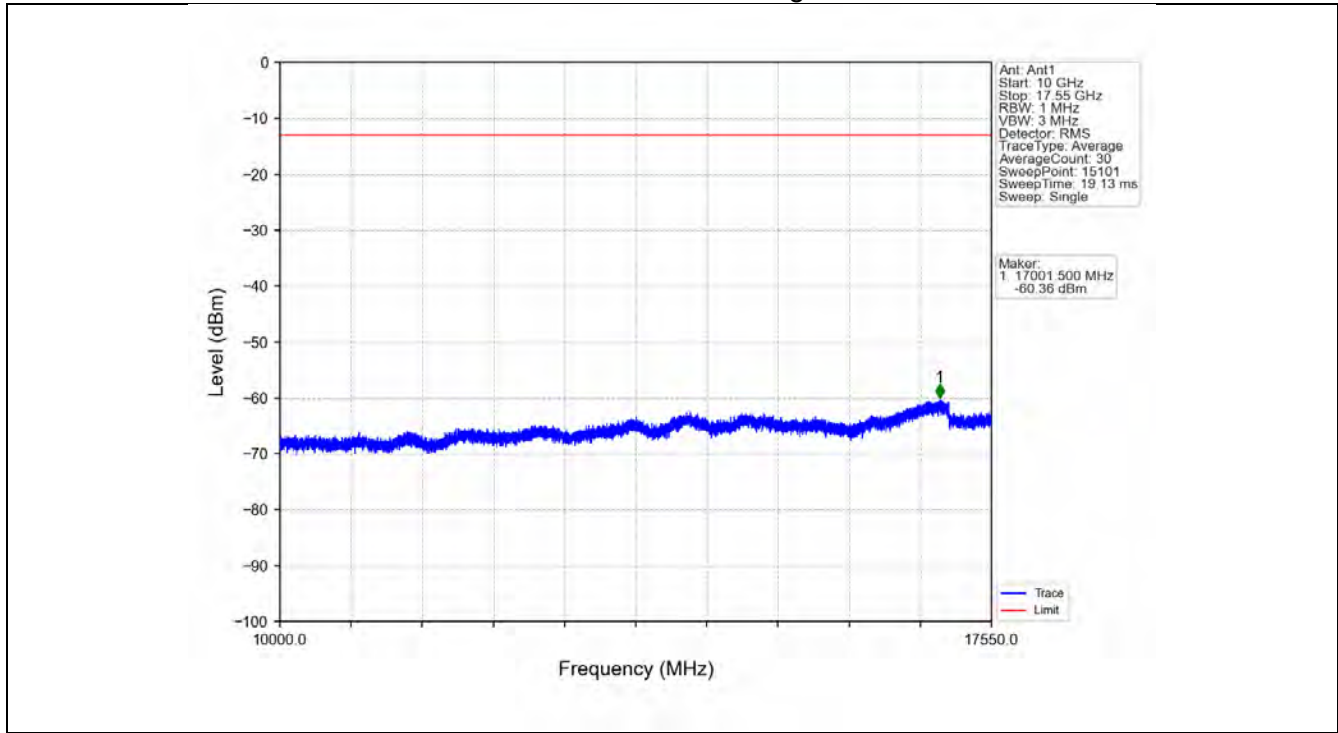


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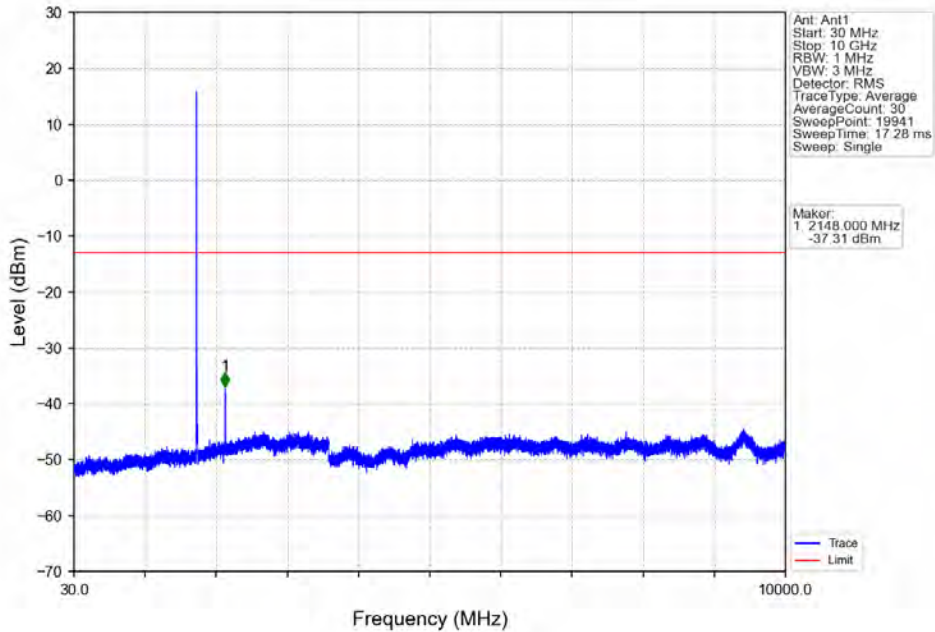


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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



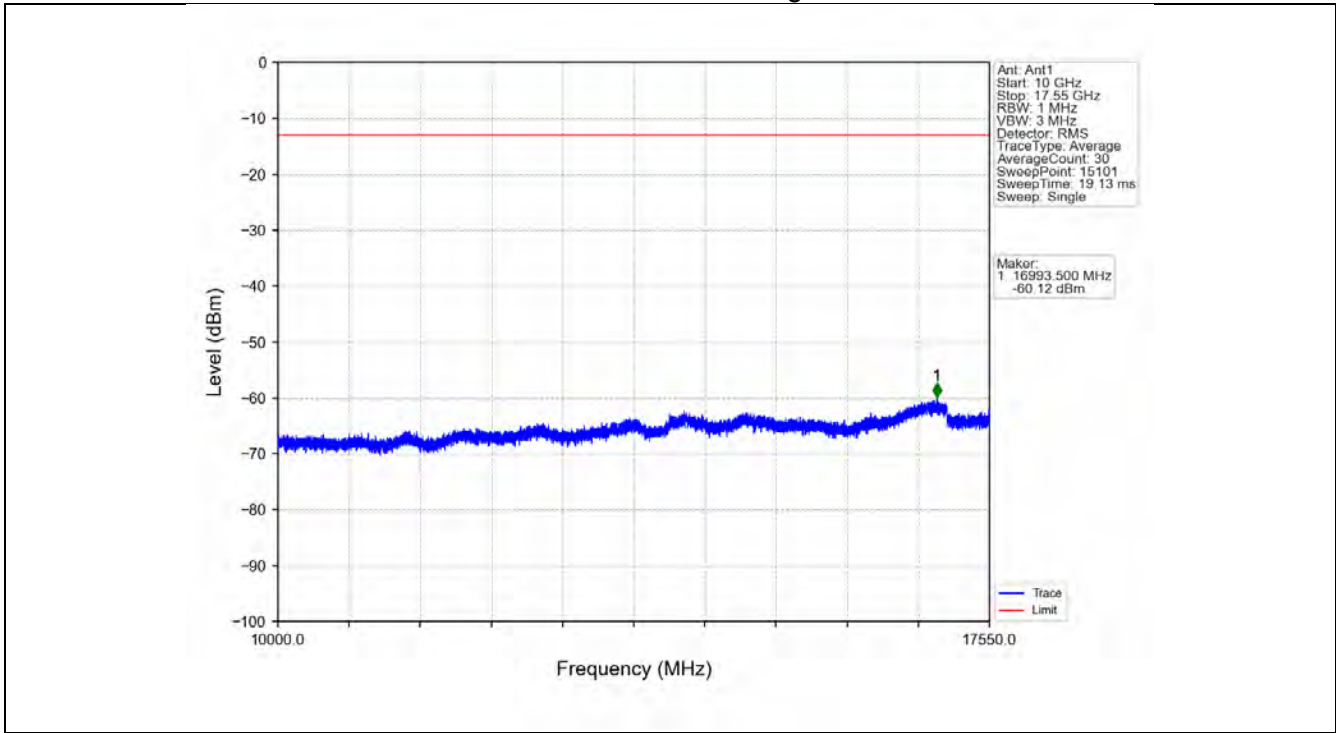
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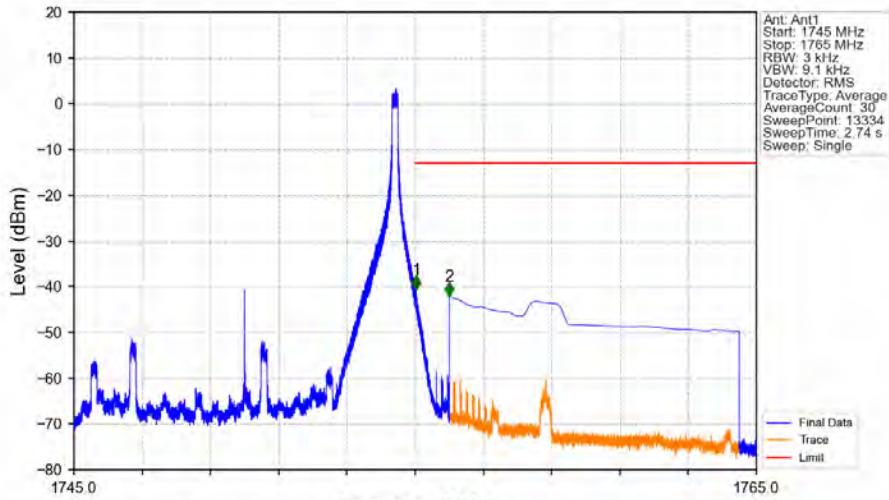


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Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTN



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1745 | 1755 | 0.003 | / | 1 | 1755.029 | -40.72 | -13 | Pass |
| 1755 | 1756 | 0.003 | / | 2 | 1756.001 | -42.06 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | | | | | |

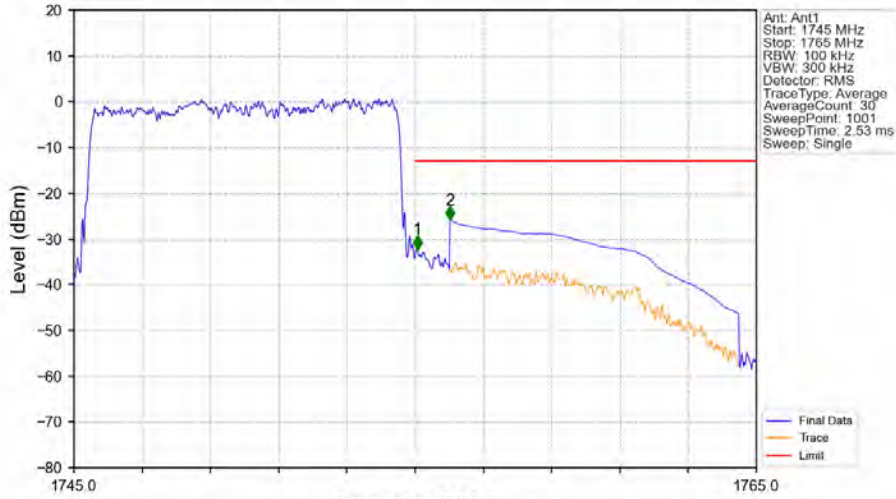
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1745 | 1755 | 0.1 | / | / | / | / | / | / |
| 1755 | 1756 | 0.1 | / | 1 | 1755.060 | -32.31 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1756.020 | -25.92 | -13 | Pass |



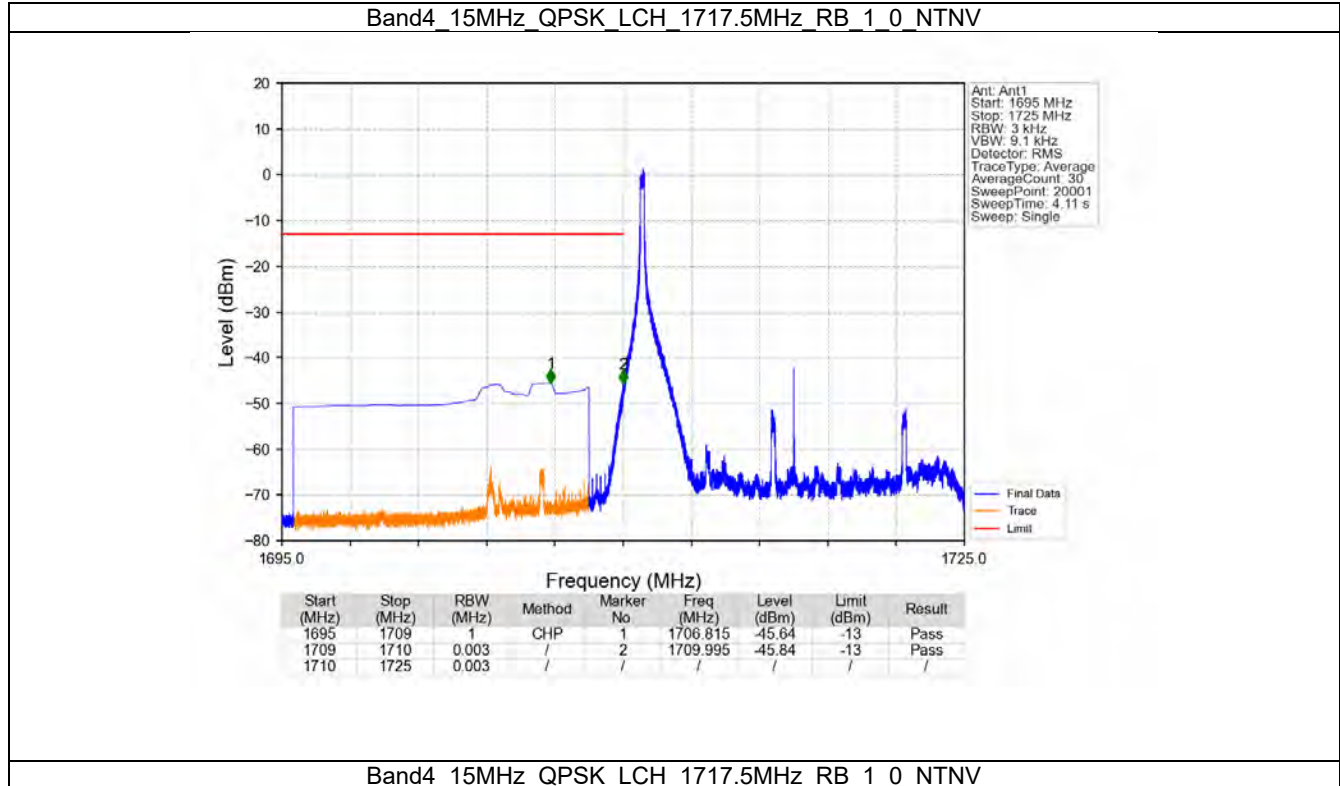
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5.5 B4_15MHz

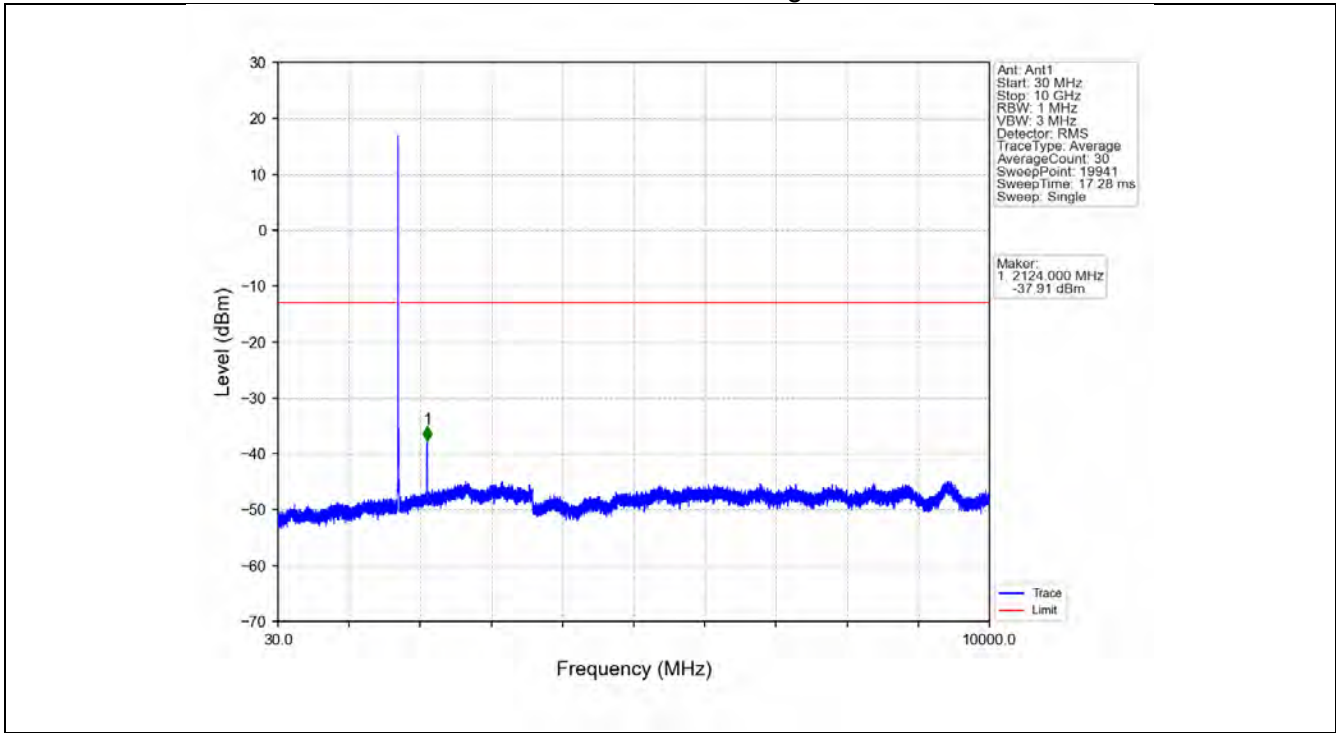
5.5.2 Test Graph



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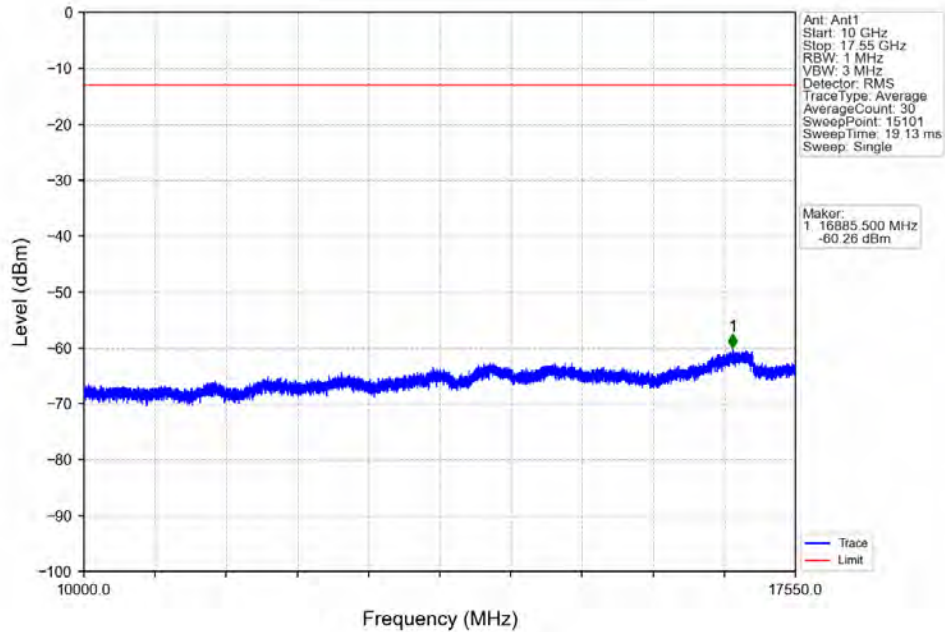


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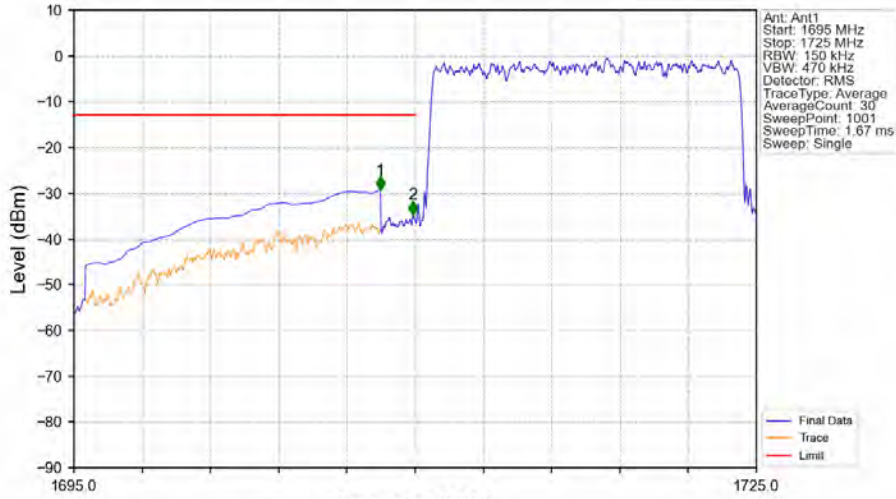
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1695 | 1709 | 1 | CHP | 1 | 1708.470 | -29.32 | -13 | Pass |
| 1709 | 1710 | 0.15 | / | 2 | 1709.910 | -34.74 | -13 | Pass |
| 1710 | 1725 | 0.15 | / | / | / | / | / | / |

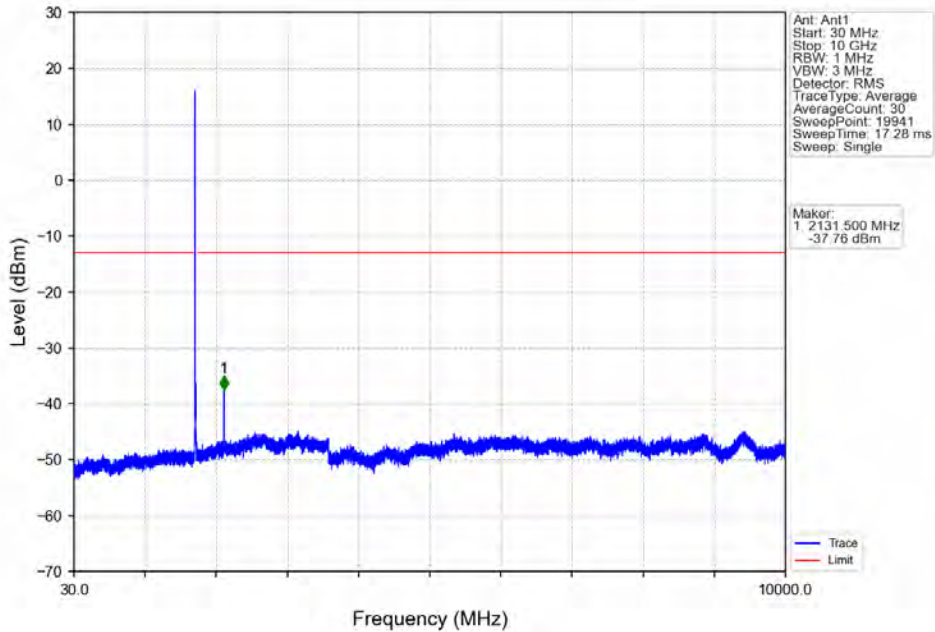


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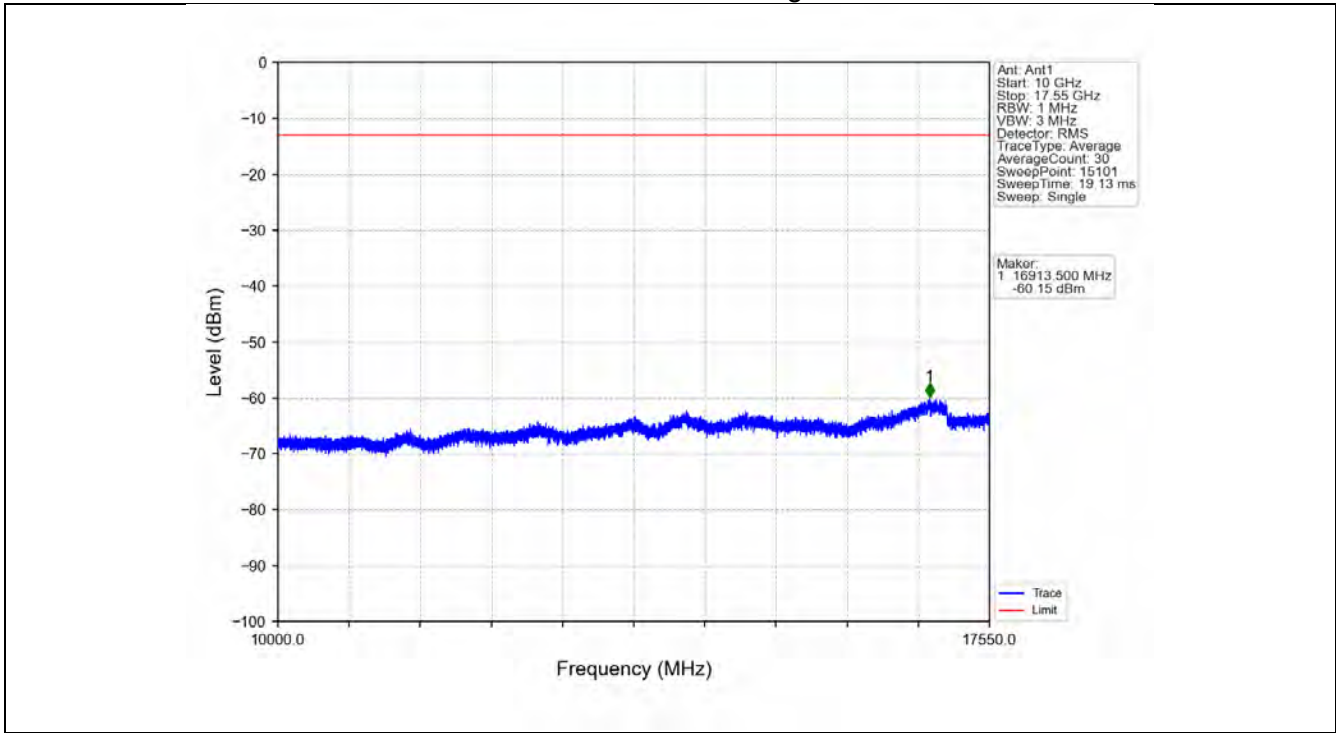


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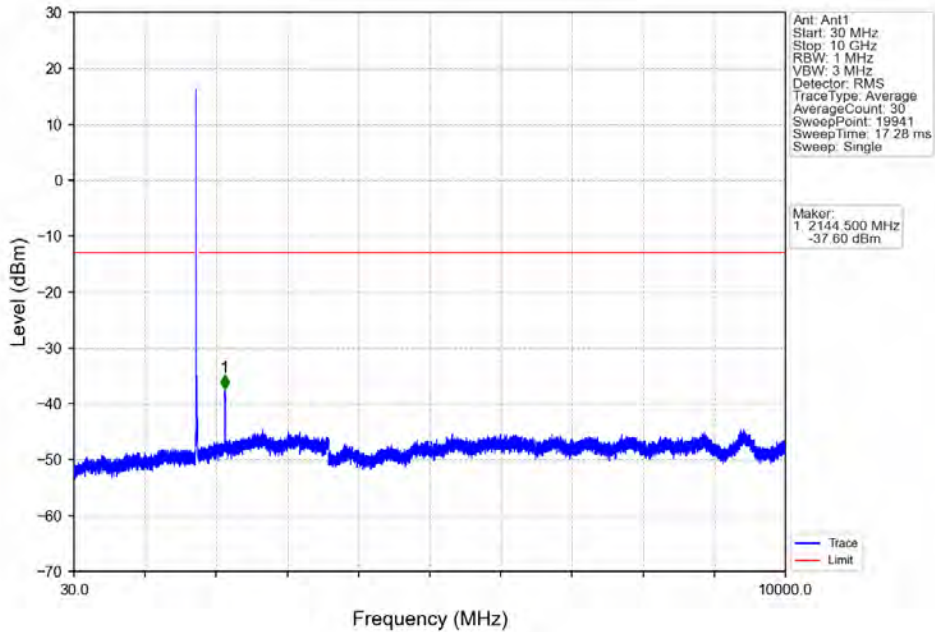


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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV

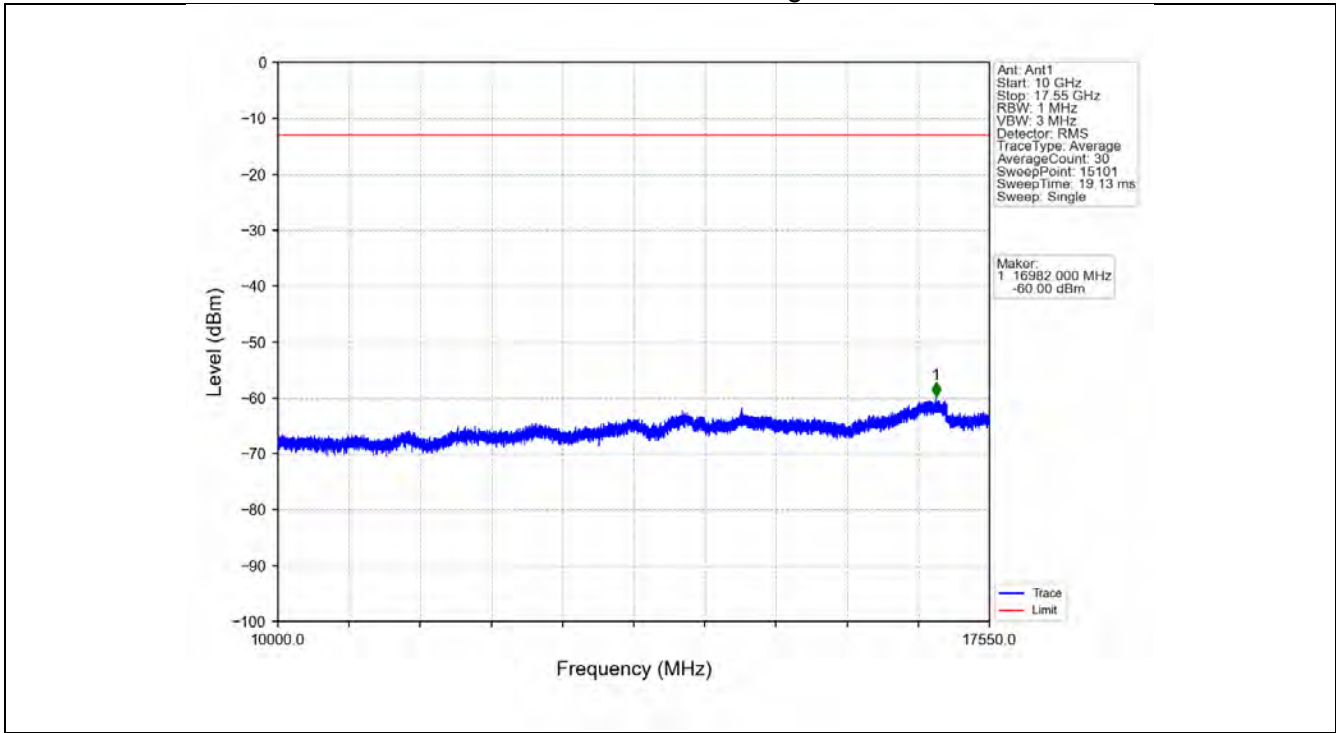


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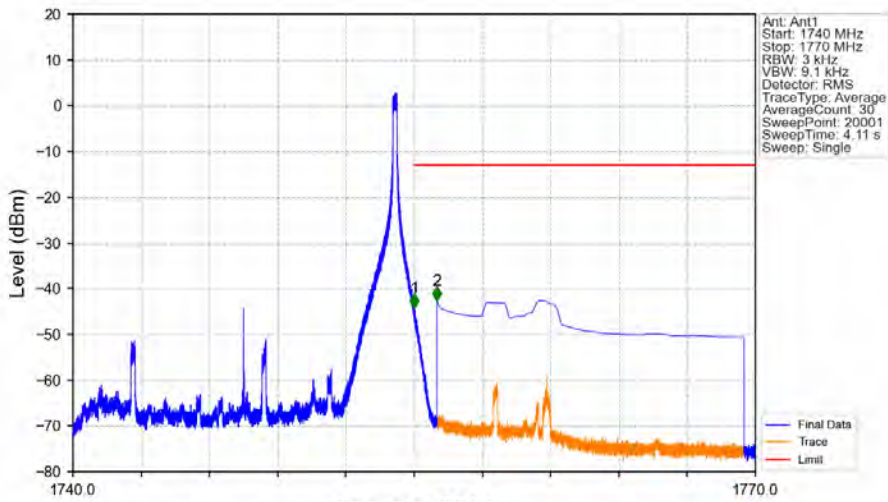


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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



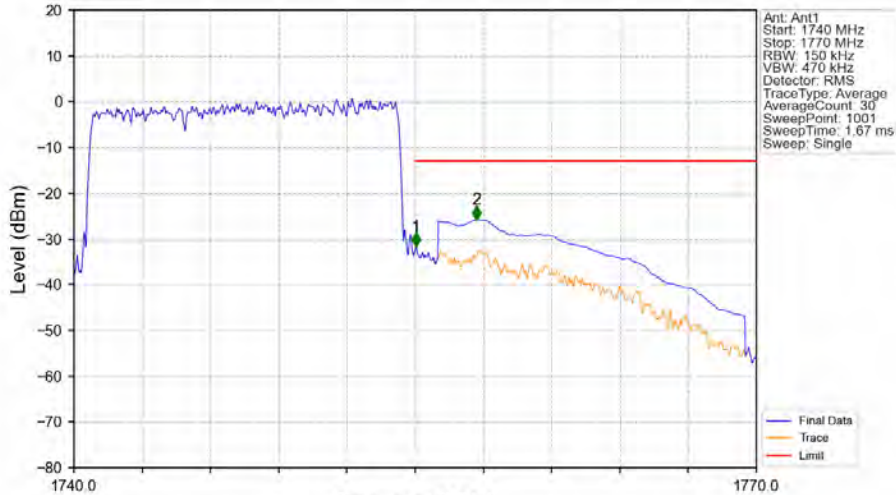
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1740 | 1755 | 0.003 | / | 1 | 1755.014 | -44.15 | -13 | Pass |
| 1755 | 1770 | 1 | CHP | 2 | 1756.001 | -42.60 | -13 | Pass |

Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1740 | 1755 | 0.15 | / | / | / | / | / | / |
| 1755 | 1756 | 0.15 | / | 1 | 1755.030 | -31.66 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1757.700 | -25.78 | -13 | Pass |



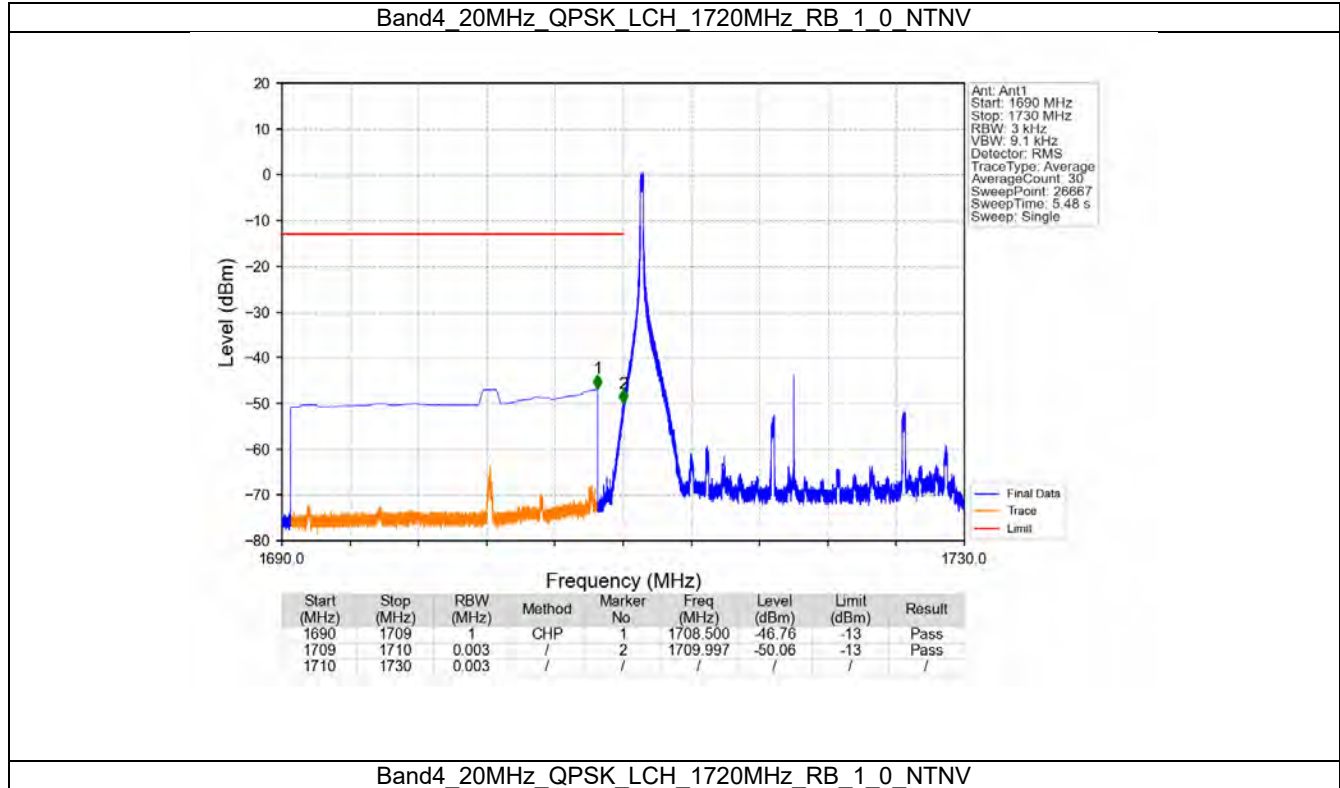
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5.6 B4_20MHz

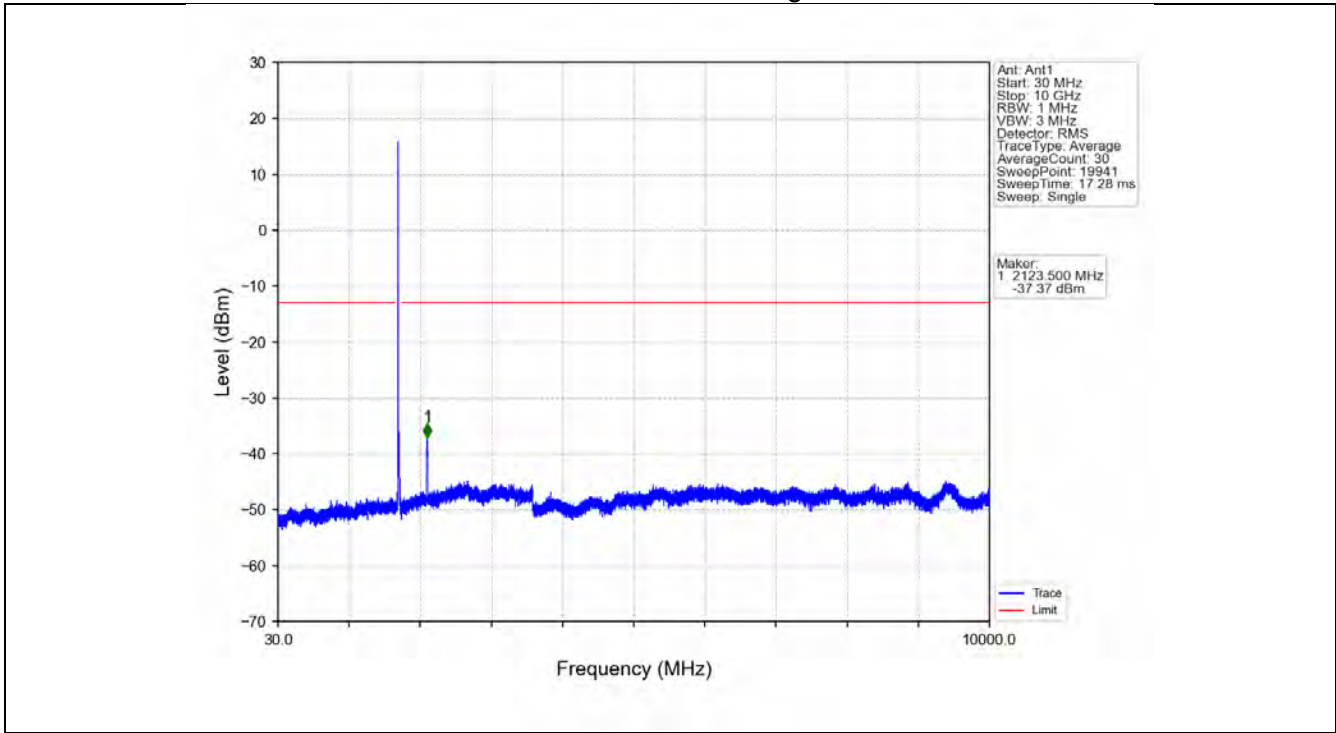
5.6.2 Test Graph



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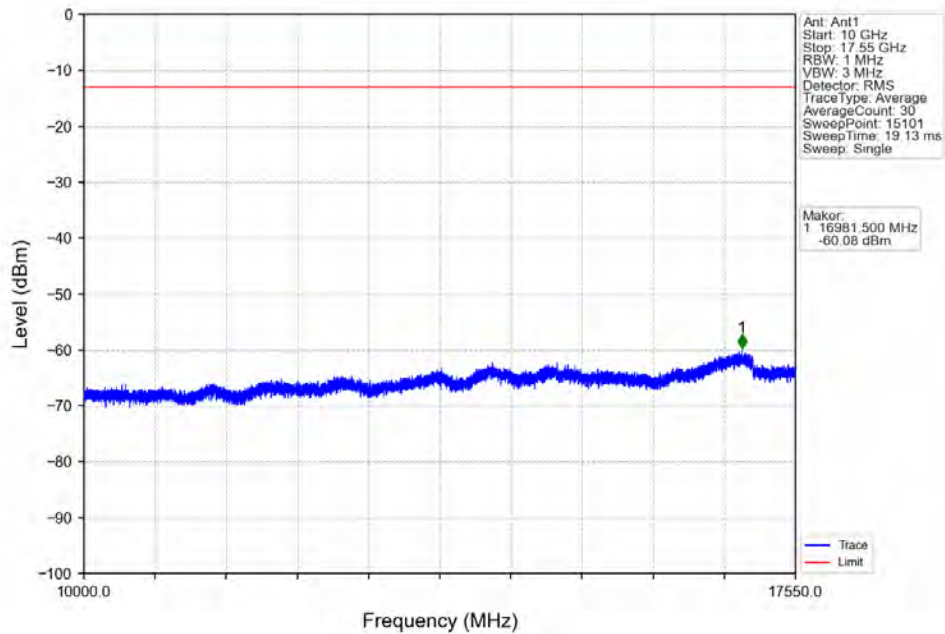


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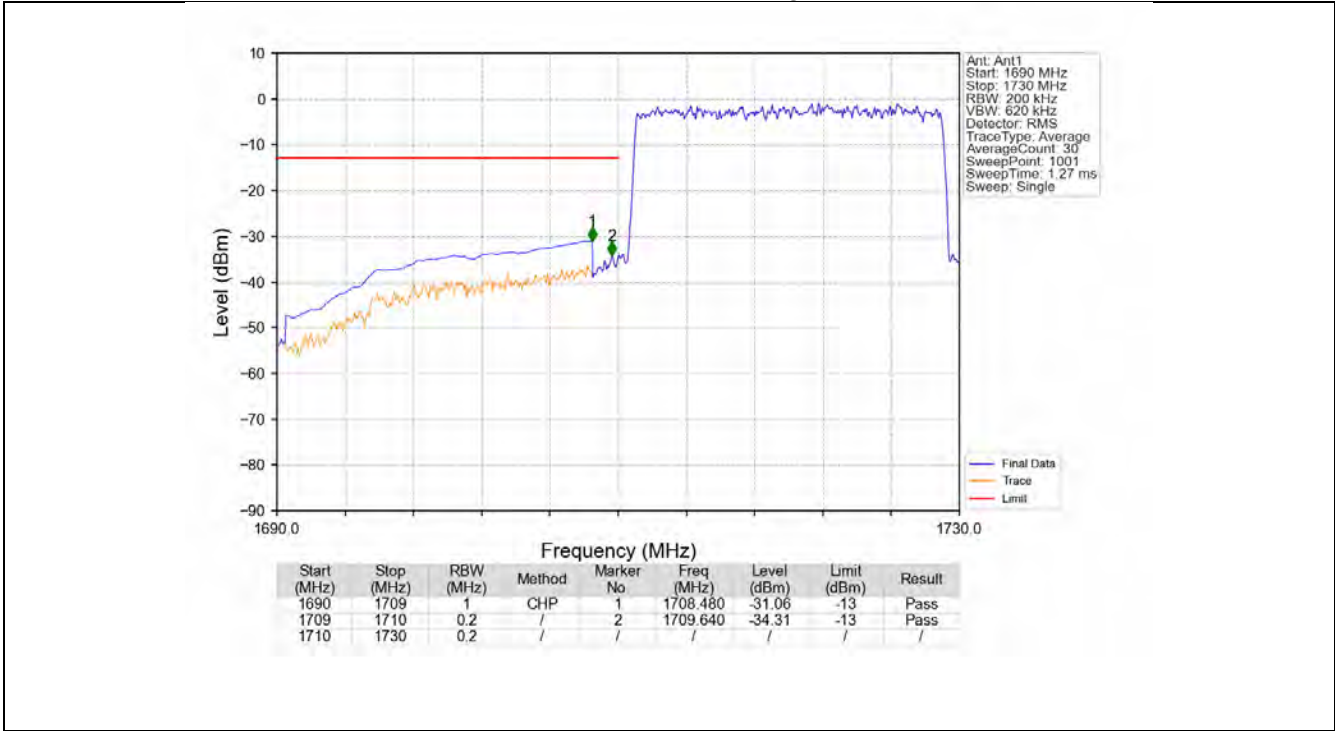
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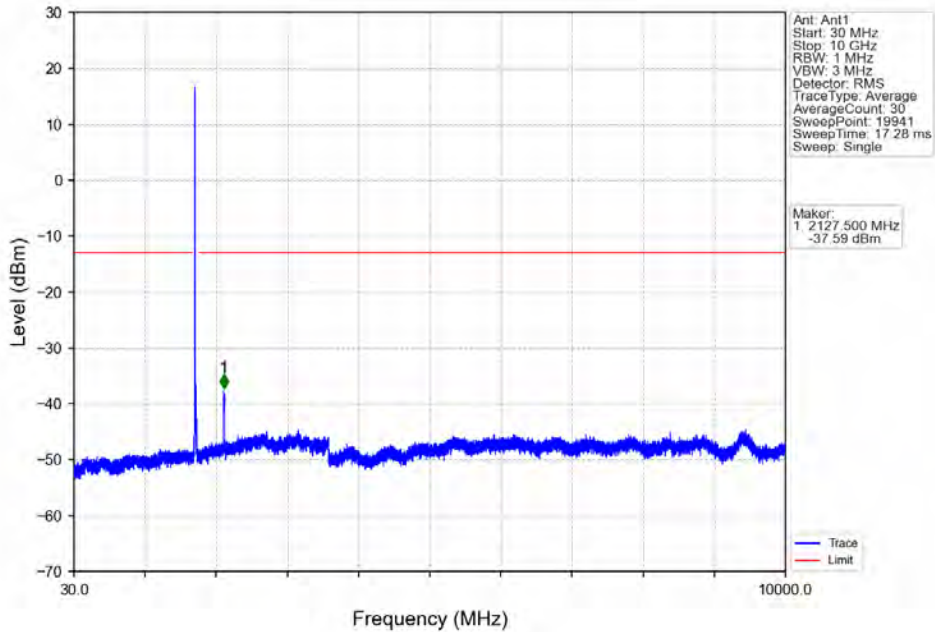


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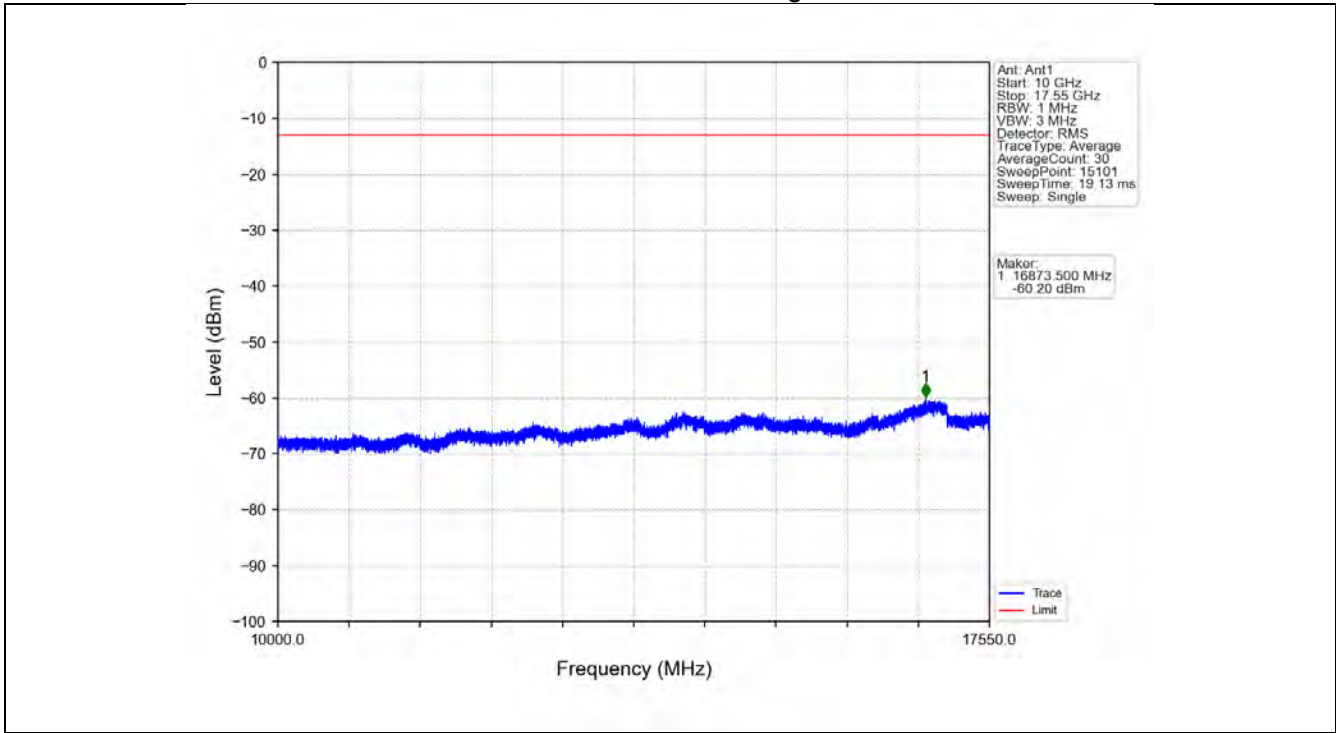


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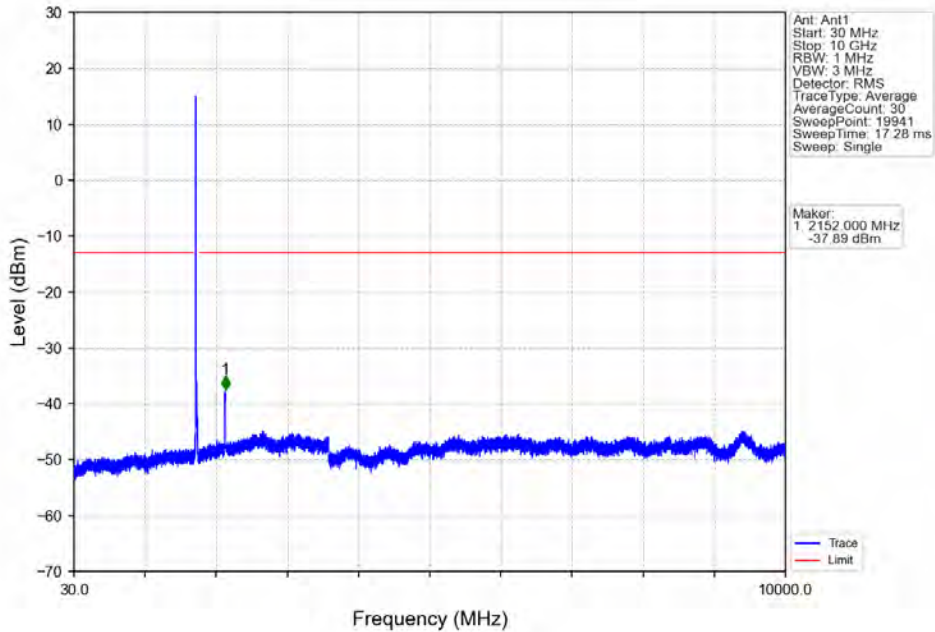


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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

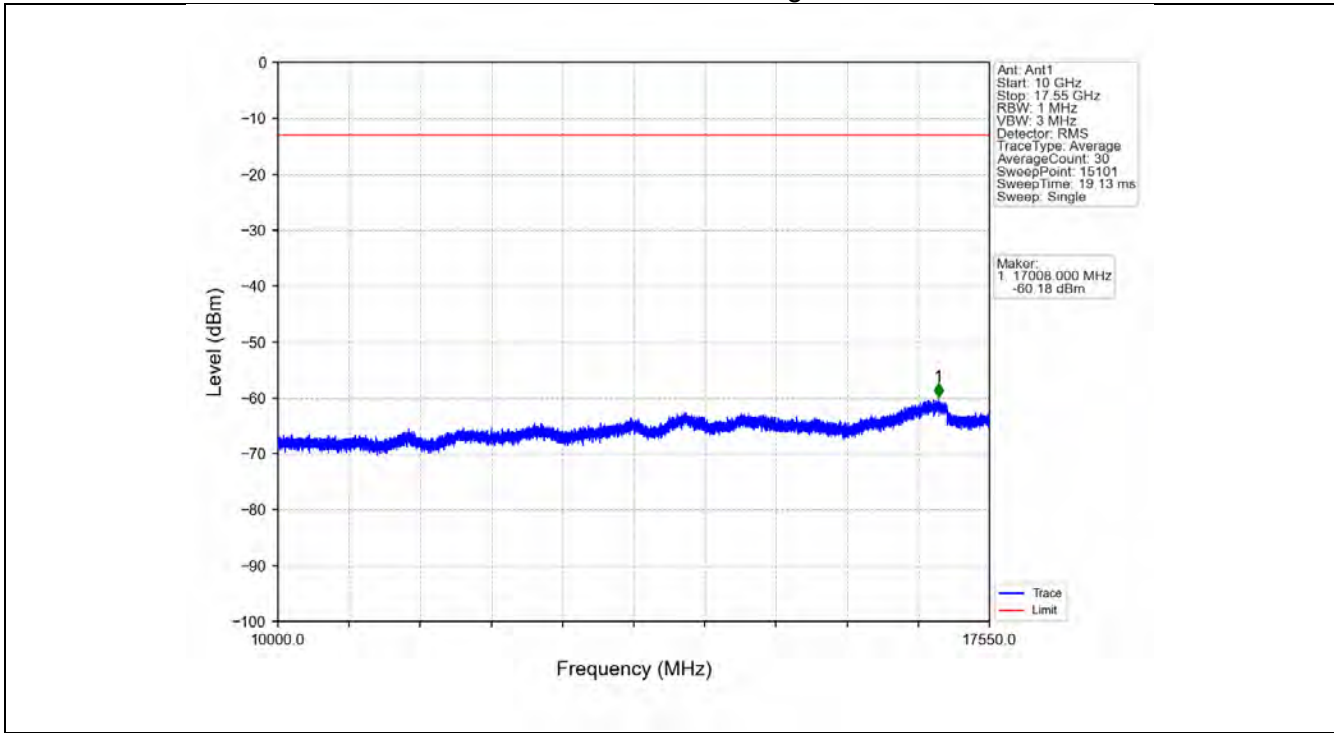


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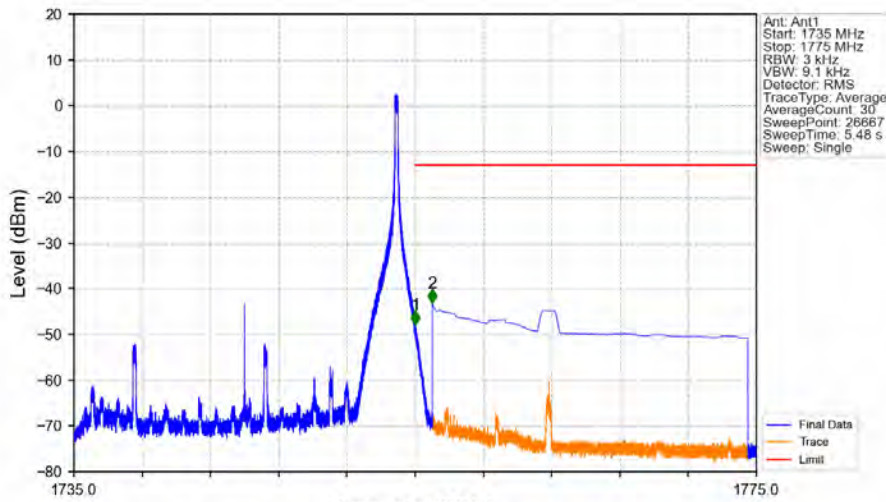


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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1735 | 1755 | 0.003 | / | 1 | 1755.016 | -47.92 | -13 | Pass |
| 1755 | 1775 | 1 | CHP | 2 | 1756.001 | -43.10 | -13 | Pass |

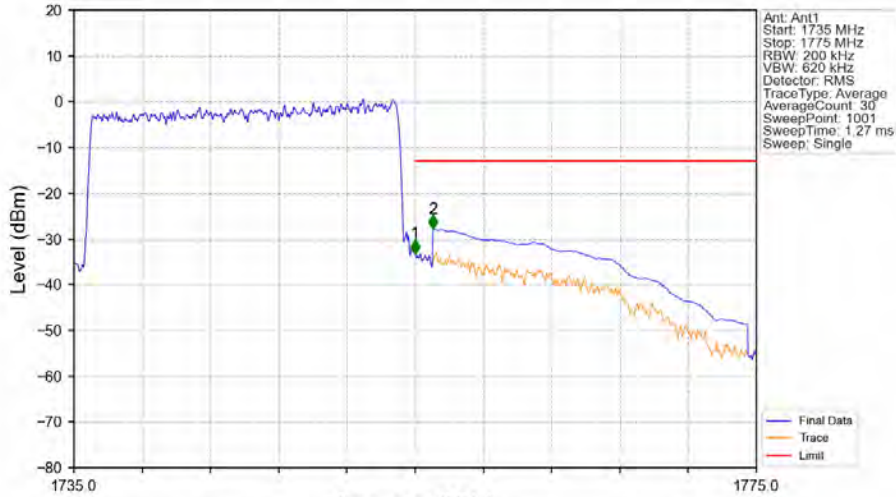
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1735 | 1755 | 0.2 | / | / | / | / | / | / |
| 1755 | 1756 | 0.2 | / | 1 | 1755.000 | -33.18 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1756.040 | -27.82 | -13 | Pass |



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6. Field Strength of Spurious Radiation

Test Band = LTE_4
 Test Channel = LCH

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3422.2711 | 64.52 | -50.15 | 29.71 | -51.18 | -13.00 | 38.18 | Horizontal |
| 2 | 5133.1067 | 56.65 | -47.09 | 33.57 | -52.13 | -13.00 | 39.13 | Horizontal |
| 3 | 6969.9485 | 52.06 | -44.38 | 36.44 | -51.14 | -13.00 | 38.14 | Horizontal |
| 4 | 9024.3012 | 50.03 | -41.76 | 38.75 | -48.24 | -13.00 | 35.24 | Horizontal |
| 5 | 11908.1954 | 48.12 | -37.84 | 39.49 | -45.49 | -13.00 | 32.49 | Horizontal |
| 6 | 17968.4984 | 50.14 | -43.43 | 42.61 | -45.94 | -13.00 | 32.94 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3422.2711 | 59.57 | -50.15 | 29.71 | -56.13 | -13.00 | 43.13 | Vertical |
| 2 | 5133.1067 | 56.18 | -47.09 | 33.57 | -52.60 | -13.00 | 39.60 | Vertical |
| 3 | 7473.9737 | 50.94 | -43.36 | 36.65 | -51.03 | -13.00 | 38.03 | Vertical |
| 4 | 8555.5278 | 52.38 | -42.31 | 39.00 | -46.19 | -13.00 | 33.19 | Vertical |
| 5 | 11902.9451 | 48.40 | -37.76 | 39.50 | -45.12 | -13.00 | 32.12 | Vertical |
| 6 | 17975.9988 | 50.33 | -43.61 | 42.66 | -45.88 | -13.00 | 32.88 | Vertical |



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Test Band = LTE_4
 Test Channel = MCH

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3447.0224 | 69.67 | -50.11 | 29.61 | -46.09 | -13.00 | 33.09 | Horizontal |
| 2 | 5170.6085 | 65.37 | -46.77 | 33.06 | -43.60 | -13.00 | 30.60 | Horizontal |
| 3 | 7363.7182 | 51.53 | -43.99 | 36.87 | -50.85 | -13.00 | 37.85 | Horizontal |
| 4 | 9008.5504 | 49.63 | -41.69 | 38.78 | -48.54 | -13.00 | 35.54 | Horizontal |
| 5 | 11894.6947 | 48.30 | -37.82 | 39.52 | -45.26 | -13.00 | 32.26 | Horizontal |
| 6 | 17970.7485 | 50.41 | -43.48 | 42.62 | -45.71 | -13.00 | 32.71 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3447.0224 | 63.88 | -50.11 | 29.61 | -51.88 | -13.00 | 38.88 | Vertical |
| 2 | 5170.6085 | 61.16 | -46.77 | 33.06 | -47.81 | -13.00 | 34.81 | Vertical |
| 3 | 8617.7809 | 52.50 | -42.64 | 38.24 | -47.16 | -13.00 | 34.16 | Vertical |
| 4 | 11913.4457 | 48.34 | -37.92 | 39.49 | -45.35 | -13.00 | 32.35 | Vertical |
| 5 | 14228.8114 | 49.17 | -39.78 | 40.77 | -45.10 | -13.00 | 32.10 | Vertical |
| 6 | 17905.4953 | 49.96 | -42.98 | 42.23 | -46.05 | -13.00 | 33.05 | Vertical |



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Test Band = LTE_4
 Test Channel = HCH

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3471.7736 | 67.10 | -49.64 | 29.69 | -48.11 | -13.00 | 35.11 | Horizontal |
| 2 | 5208.1104 | 60.30 | -46.42 | 32.48 | -48.90 | -13.00 | 35.90 | Horizontal |
| 3 | 7131.9566 | 51.00 | -43.98 | 37.03 | -51.21 | -13.00 | 38.21 | Horizontal |
| 4 | 9048.3024 | 50.33 | -41.86 | 38.70 | -48.09 | -13.00 | 35.09 | Horizontal |
| 5 | 11896.9448 | 48.70 | -37.77 | 39.51 | -44.82 | -13.00 | 31.82 | Horizontal |
| 6 | 14247.5624 | 49.10 | -39.74 | 40.75 | -45.15 | -13.00 | 32.15 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3472.5236 | 61.08 | -49.63 | 29.69 | -54.12 | -13.00 | 41.12 | Vertical |
| 2 | 5208.1104 | 54.96 | -46.42 | 32.48 | -54.24 | -13.00 | 41.24 | Vertical |
| 3 | 7474.7237 | 51.84 | -43.36 | 36.65 | -50.13 | -13.00 | 37.13 | Vertical |
| 4 | 8680.784 | 52.82 | -42.70 | 38.18 | -46.96 | -13.00 | 33.96 | Vertical |
| 5 | 12317.7159 | 48.34 | -38.01 | 39.68 | -45.25 | -13.00 | 32.25 | Vertical |
| 6 | 17972.9986 | 50.72 | -43.54 | 42.64 | -45.44 | -13.00 | 32.44 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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