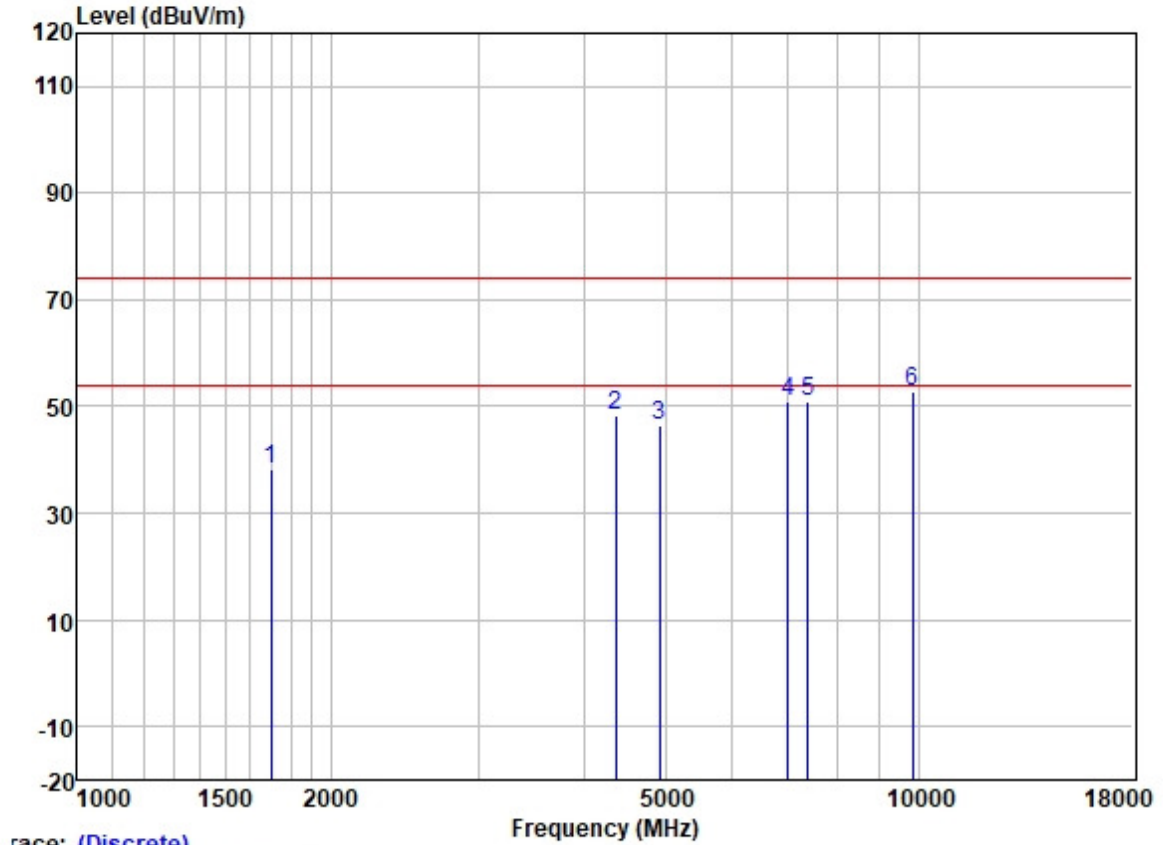


Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



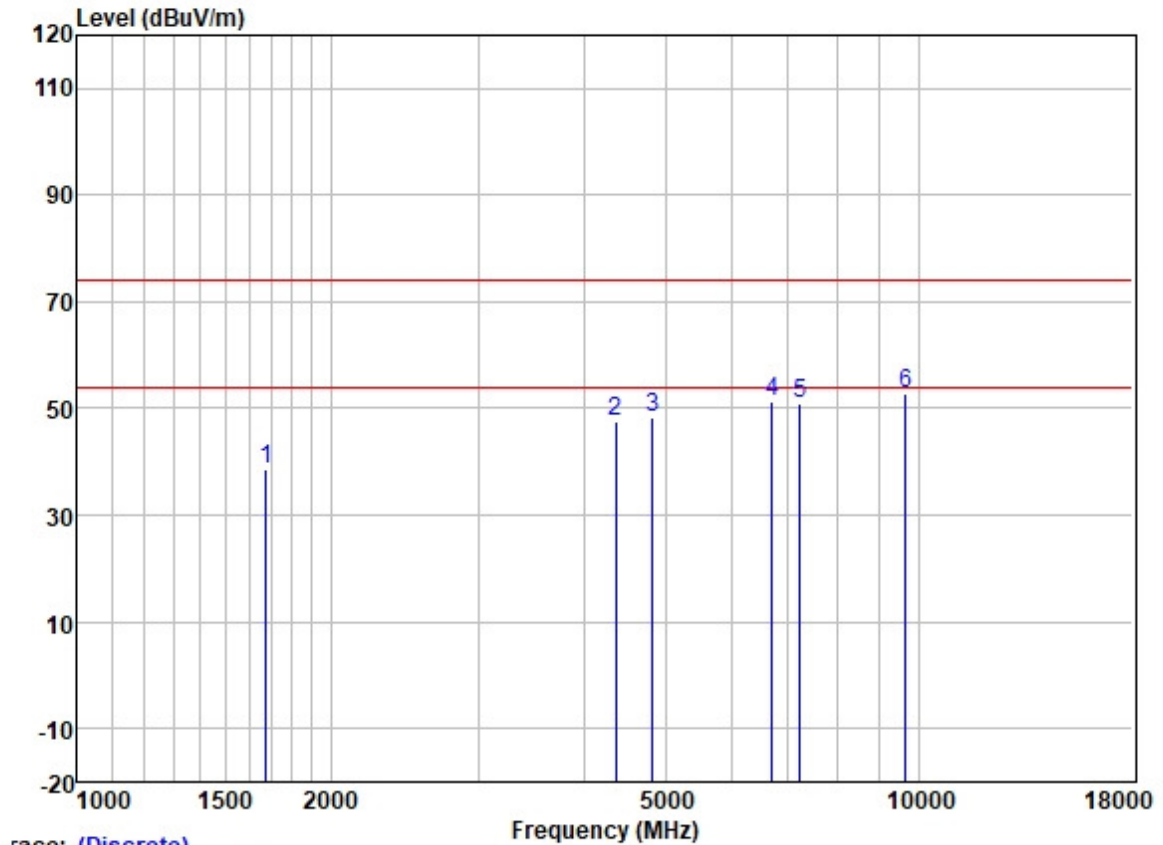
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1697.129 | 47.62 | 25.71 | 2.80 | 37.89 | 38.24 | 74.00 | -35.76 | VERTICAL | Peak |
| 2 | 4367.058 | 49.69 | 30.62 | 4.68 | 36.81 | 48.18 | 74.00 | -25.82 | VERTICAL | Peak |
| 3 | 4924.000 | 46.15 | 31.62 | 5.60 | 36.84 | 46.53 | 74.00 | -27.47 | VERTICAL | Peak |
| 4 | 6995.172 | 47.49 | 35.00 | 5.81 | 37.25 | 51.05 | 74.00 | -22.95 | VERTICAL | Peak |
| 5 | 7386.000 | 45.96 | 36.17 | 6.19 | 37.45 | 50.87 | 74.00 | -23.13 | VERTICAL | Peak |
| 6 | 9848.000 | 44.69 | 38.58 | 6.99 | 37.41 | 52.85 | 74.00 | -21.15 | VERTICAL | Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



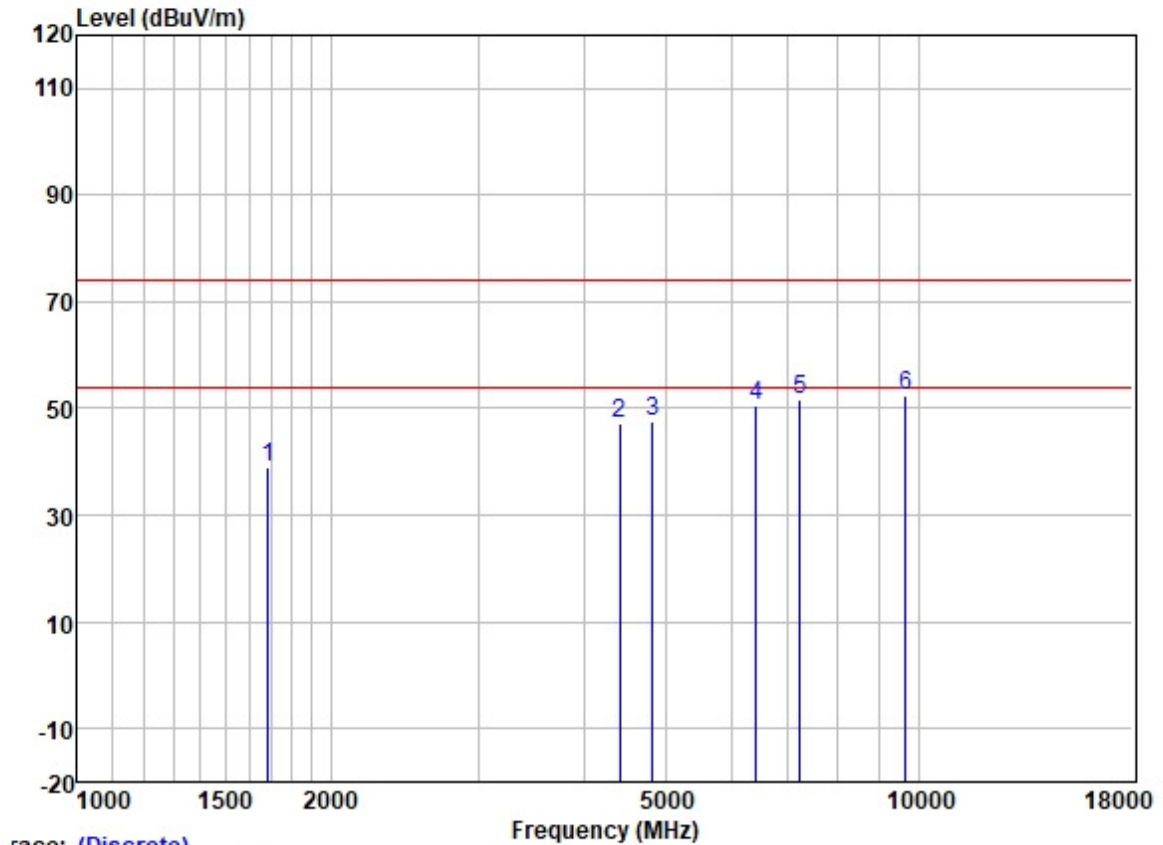
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1677.621 | 47.91 | 25.68 | 2.80 | 37.91 | 38.48 | 74.00 | -35.52 | HORIZONTAL Peak |
| 2 | 4367.058 | 49.12 | 30.62 | 4.68 | 36.81 | 47.61 | 74.00 | -26.39 | HORIZONTAL Peak |
| 3 | 4824.000 | 48.20 | 31.45 | 5.42 | 36.83 | 48.24 | 74.00 | -25.76 | HORIZONTAL Peak |
| 4 | 6698.373 | 48.12 | 34.38 | 5.83 | 37.08 | 51.25 | 74.00 | -22.75 | HORIZONTAL Peak |
| 5 | 7236.000 | 46.62 | 35.70 | 6.03 | 37.39 | 50.96 | 74.00 | -23.04 | HORIZONTAL Peak |
| 6 | 9648.000 | 44.85 | 38.40 | 7.06 | 37.42 | 52.89 | 74.00 | -21.11 | HORIZONTAL Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



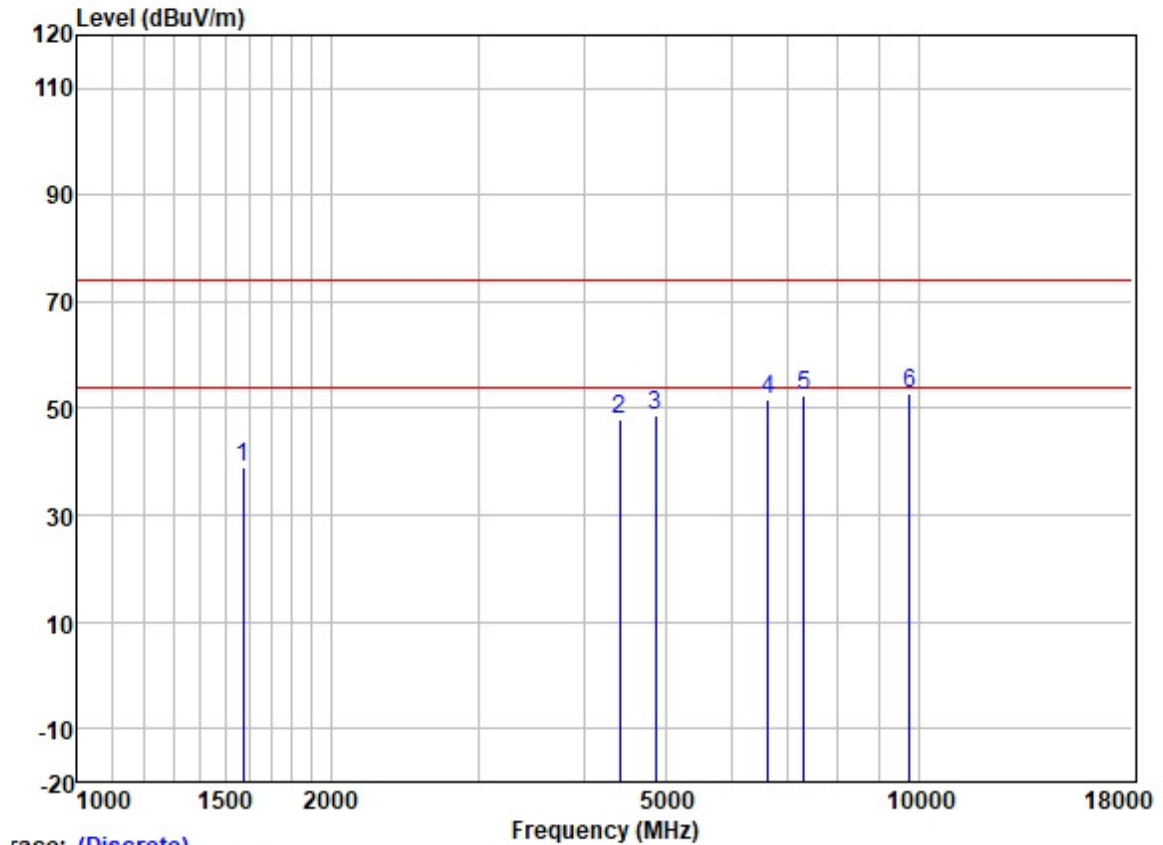
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1687.347 | 48.40 | 25.69 | 2.80 | 37.91 | 38.98 | 74.00 -35.02 | VERTICAL | Peak |
| 2 | 4417.841 | 48.54 | 30.70 | 4.74 | 36.81 | 47.17 | 74.00 -26.83 | VERTICAL | Peak |
| 3 | 4824.000 | 47.59 | 31.45 | 5.42 | 36.83 | 47.63 | 74.00 -26.37 | VERTICAL | Peak |
| 4 | 6414.167 | 48.02 | 33.79 | 5.89 | 36.99 | 50.71 | 74.00 -23.29 | VERTICAL | Peak |
| 5 | 7236.000 | 47.30 | 35.70 | 6.03 | 37.39 | 51.64 | 74.00 -22.36 | VERTICAL | Peak |
| 6 | 9648.000 | 44.44 | 38.40 | 7.06 | 37.42 | 52.48 | 74.00 -21.52 | VERTICAL | Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



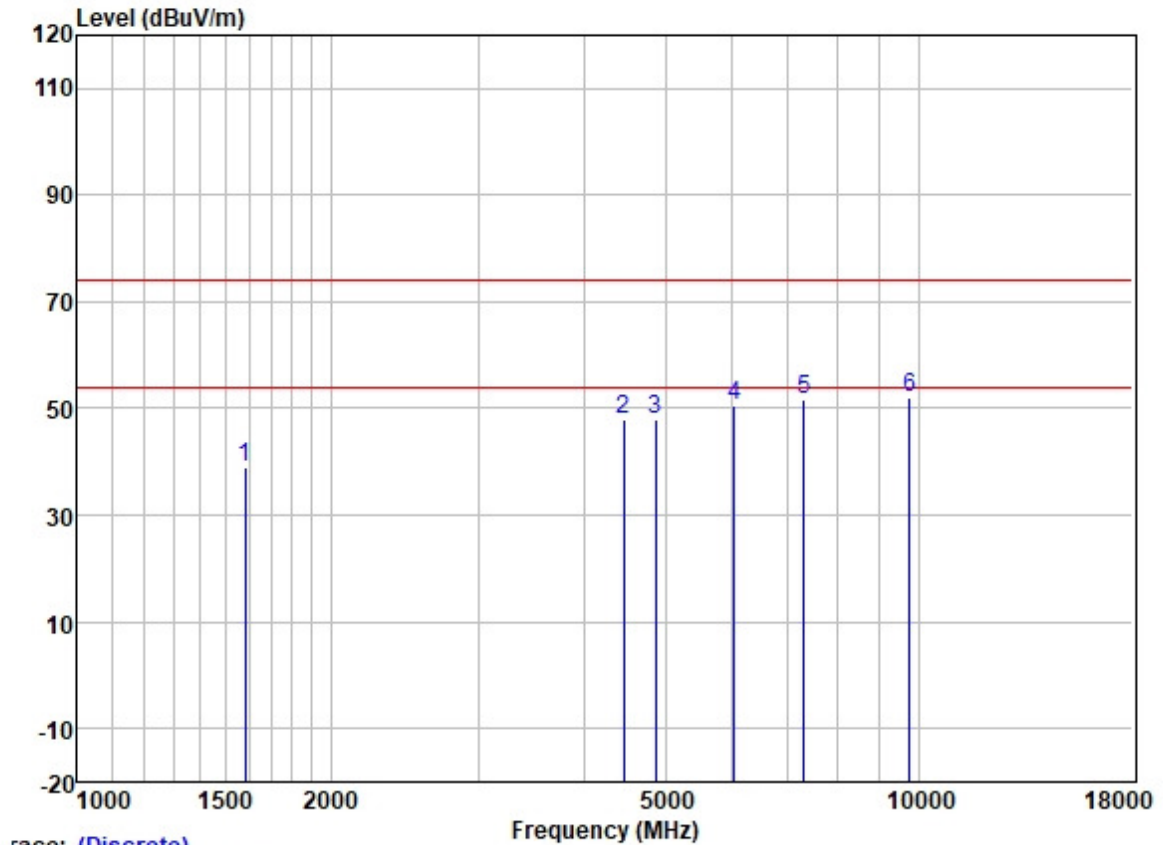
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1574.265 | 48.77 | 25.56 | 2.80 | 38.00 | 39.13 | 74.00 | -34.87 | HORIZONTAL Peak |
| 2 | 4417.841 | 49.33 | 30.70 | 4.74 | 36.81 | 47.96 | 74.00 | -26.04 | HORIZONTAL Peak |
| 3 | 4874.000 | 48.41 | 31.54 | 5.50 | 36.84 | 48.61 | 74.00 | -25.39 | HORIZONTAL Peak |
| 4 | 6621.375 | 48.52 | 34.20 | 5.83 | 37.05 | 51.50 | 74.00 | -22.50 | HORIZONTAL Peak |
| 5 | 7311.000 | 47.70 | 35.93 | 6.11 | 37.42 | 52.32 | 74.00 | -21.68 | HORIZONTAL Peak |
| 6 | 9748.000 | 44.59 | 38.50 | 7.02 | 37.41 | 52.70 | 74.00 | -21.30 | HORIZONTAL Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



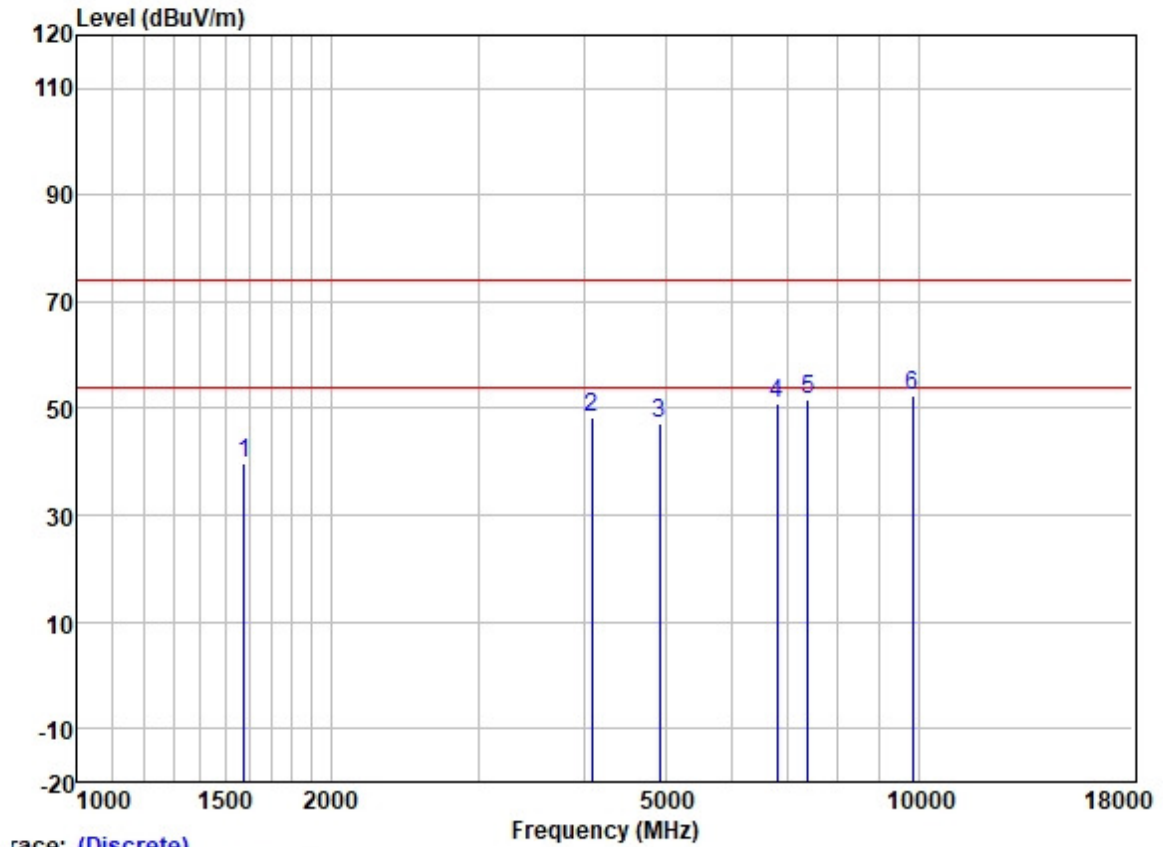
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1583.392 | 48.58 | 25.56 | 2.80 | 38.00 | 38.94 | 74.00 | -35.06 | VERTICAL Peak |
| 2 | 4456.315 | 48.94 | 30.75 | 4.88 | 36.81 | 47.76 | 74.00 | -26.24 | VERTICAL Peak |
| 3 | 4874.000 | 47.89 | 31.54 | 5.50 | 36.84 | 48.09 | 74.00 | -25.91 | VERTICAL Peak |
| 4 | 6036.421 | 48.98 | 32.48 | 6.18 | 36.90 | 50.74 | 74.00 | -23.26 | VERTICAL Peak |
| 5 | 7311.000 | 47.22 | 35.93 | 6.11 | 37.42 | 51.84 | 74.00 | -22.16 | VERTICAL Peak |
| 6 | 9748.000 | 44.06 | 38.50 | 7.02 | 37.41 | 52.17 | 74.00 | -21.83 | VERTICAL Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



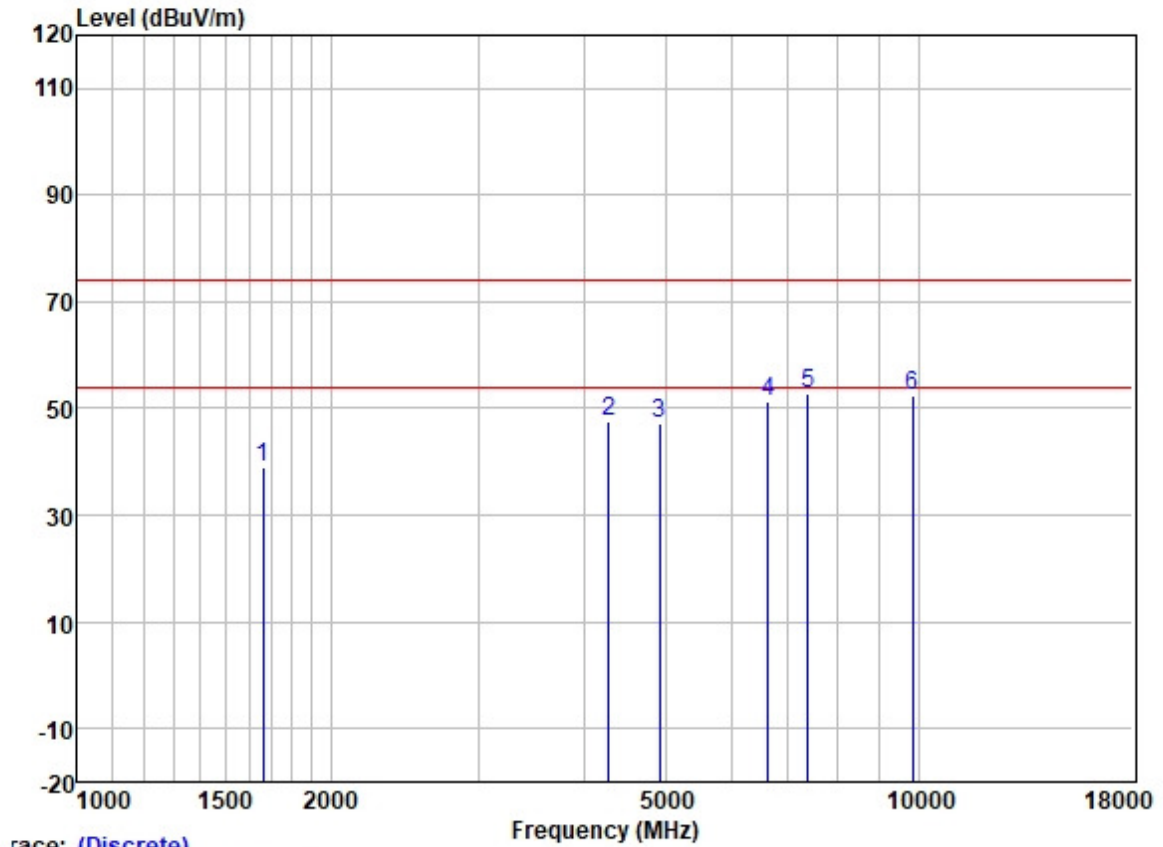
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1578.822 | 49.22 | 25.56 | 2.80 | 38.00 | 39.58 | 74.00 | -34.42 | HORIZONTAL | Peak |
| 2 | 4086.182 | 50.49 | 29.92 | 4.60 | 36.80 | 48.21 | 74.00 | -25.79 | HORIZONTAL | Peak |
| 3 | 4924.000 | 46.75 | 31.62 | 5.60 | 36.84 | 47.13 | 74.00 | -26.87 | HORIZONTAL | Peak |
| 4 | 6795.879 | 47.58 | 34.66 | 5.82 | 37.12 | 50.94 | 74.00 | -23.06 | HORIZONTAL | Peak |
| 5 | 7386.000 | 46.62 | 36.17 | 6.19 | 37.45 | 51.53 | 74.00 | -22.47 | HORIZONTAL | Peak |
| 6 | 9848.000 | 44.40 | 38.58 | 6.99 | 37.41 | 52.56 | 74.00 | -21.44 | HORIZONTAL | Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



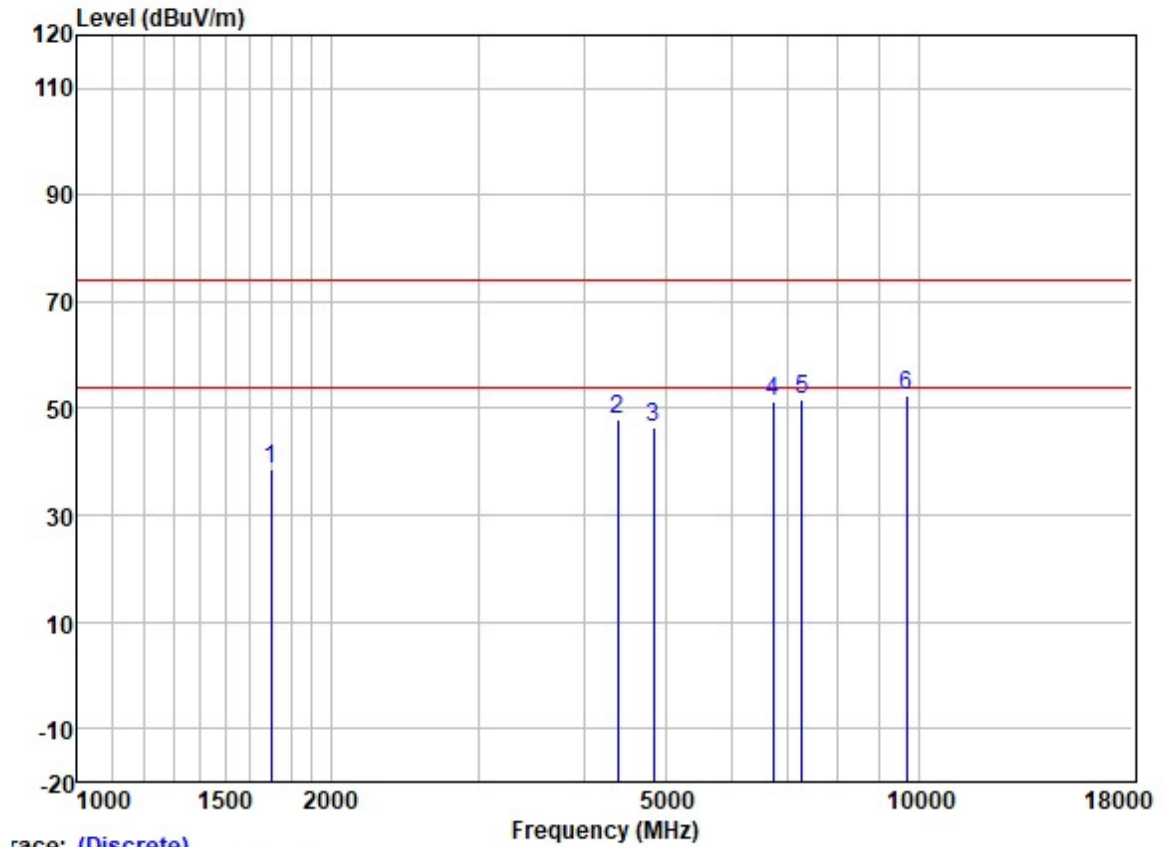
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1663.137 | 48.39 | 25.65 | 2.80 | 37.91 | 38.93 | 74.00 -35.07 | VERTICAL | Peak |
| 2 | 4279.589 | 49.32 | 30.42 | 4.63 | 36.81 | 47.56 | 74.00 -26.44 | VERTICAL | Peak |
| 3 | 4924.000 | 46.89 | 31.62 | 5.60 | 36.84 | 47.27 | 74.00 -26.73 | VERTICAL | Peak |
| 4 | 6621.375 | 48.43 | 34.20 | 5.83 | 37.05 | 51.41 | 74.00 -22.59 | VERTICAL | Peak |
| 5 | 7386.000 | 47.82 | 36.17 | 6.19 | 37.45 | 52.73 | 74.00 -21.27 | VERTICAL | Peak |
| 6 | 9848.000 | 44.28 | 38.58 | 6.99 | 37.41 | 52.44 | 74.00 -21.56 | VERTICAL | Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



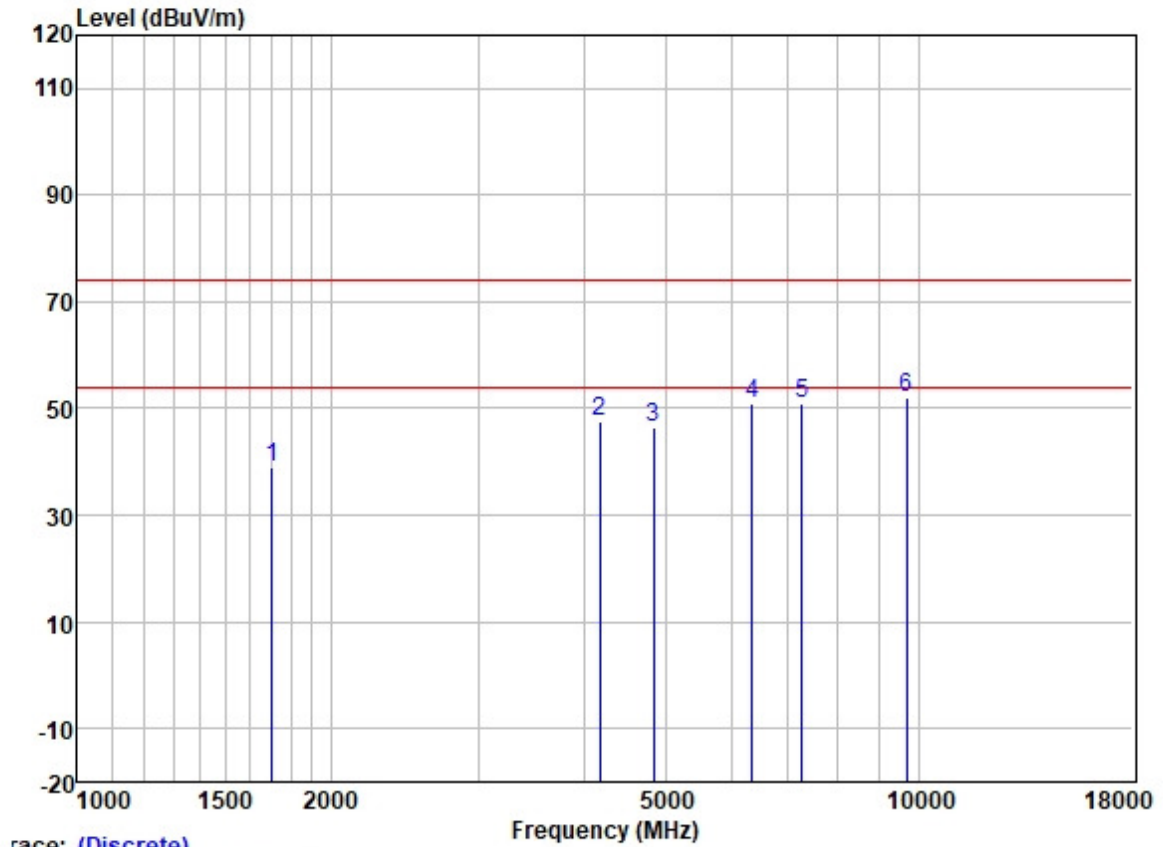
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1697.129 | 48.15 | 25.71 | 2.80 | 37.89 | 38.77 | 74.00 | -35.23 | HORIZONTAL Peak |
| 2 | 4392.376 | 49.27 | 30.66 | 4.70 | 36.81 | 47.82 | 74.00 | -26.18 | HORIZONTAL Peak |
| 3 | 4844.000 | 46.27 | 31.50 | 5.45 | 36.84 | 46.38 | 74.00 | -27.62 | HORIZONTAL Peak |
| 4 | 6717.762 | 48.02 | 34.44 | 5.83 | 37.09 | 51.20 | 74.00 | -22.80 | HORIZONTAL Peak |
| 5 | 7266.000 | 47.23 | 35.78 | 6.06 | 37.41 | 51.66 | 74.00 | -22.34 | HORIZONTAL Peak |
| 6 | 9688.000 | 44.49 | 38.44 | 7.04 | 37.42 | 52.55 | 74.00 | -21.45 | HORIZONTAL Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



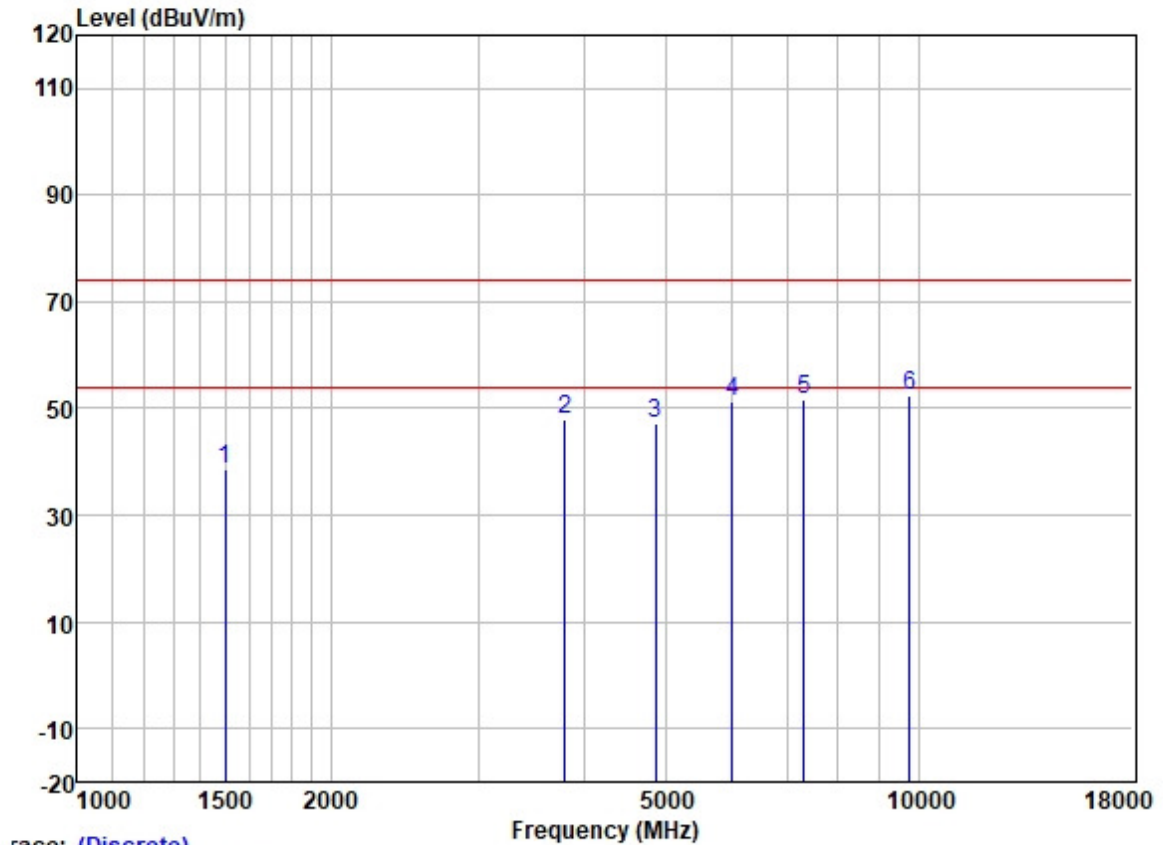
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1702.042 | 48.22 | 25.72 | 2.80 | 37.89 | 38.85 | 74.00 | -35.15 | VERTICAL | Peak |
| 2 | 4181.768 | 49.63 | 30.12 | 4.60 | 36.80 | 47.55 | 74.00 | -26.45 | VERTICAL | Peak |
| 3 | 4844.000 | 46.22 | 31.50 | 5.45 | 36.84 | 46.33 | 74.00 | -27.67 | VERTICAL | Peak |
| 4 | 6340.436 | 48.35 | 33.57 | 5.94 | 36.97 | 50.89 | 74.00 | -23.11 | VERTICAL | Peak |
| 5 | 7266.000 | 46.57 | 35.78 | 6.06 | 37.41 | 51.00 | 74.00 | -23.00 | VERTICAL | Peak |
| 6 | 9688.000 | 44.15 | 38.44 | 7.04 | 37.42 | 52.21 | 74.00 | -21.79 | VERTICAL | Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



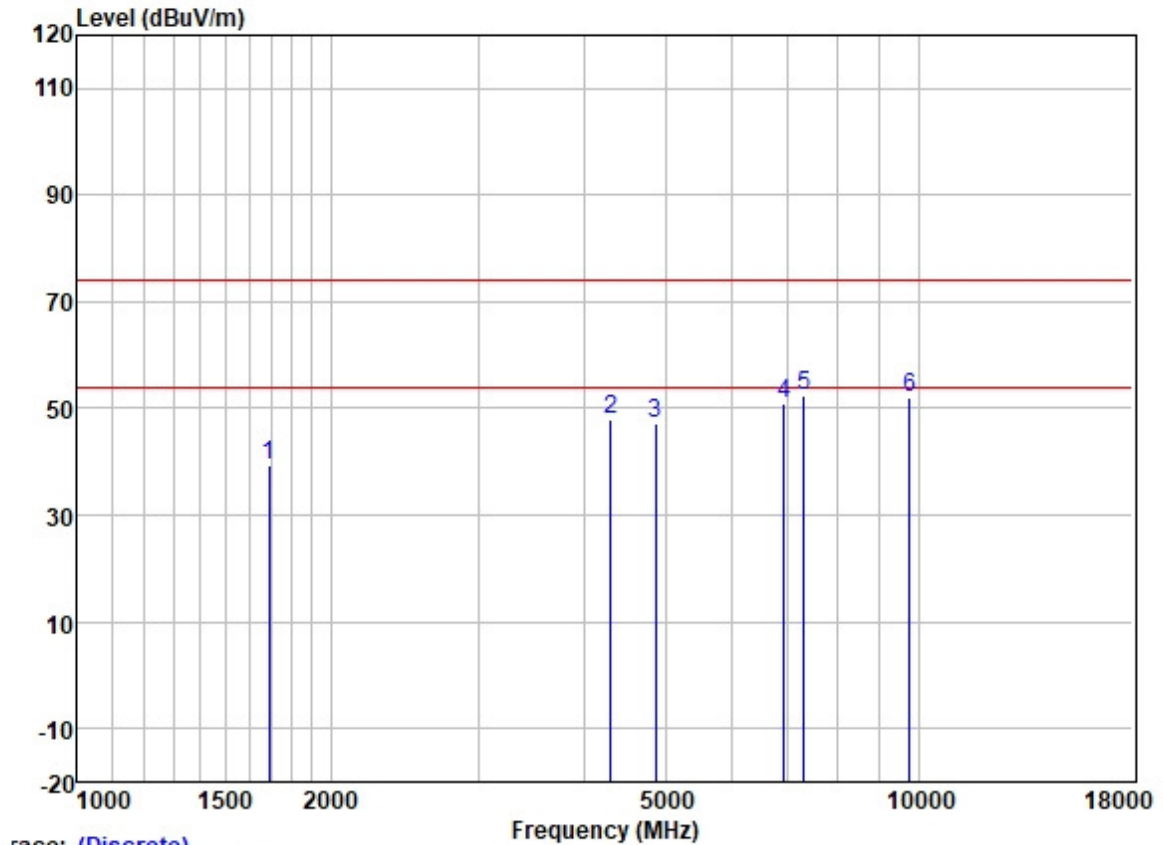
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|---------|--------|--------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1498.781 | 48.35 | 25.50 | 2.80 | 38.10 | 38.55 | 74.00 | -35.45 | HORIZONTAL | Peak |
| 2 | 3801.333 | 50.54 | 29.52 | 4.60 | 36.85 | 47.81 | 74.00 | -26.19 | HORIZONTAL | Peak |
| 3 | 4874.000 | 47.18 | 31.54 | 5.50 | 36.84 | 47.38 | 74.00 | -26.62 | HORIZONTAL | Peak |
| 4 | 6001.626 | 49.55 | 32.40 | 6.20 | 36.90 | 51.25 | 74.00 | -22.75 | HORIZONTAL | Peak |
| 5 | 7311.000 | 47.14 | 35.93 | 6.11 | 37.42 | 51.76 | 74.00 | -22.24 | HORIZONTAL | Peak |
| 6 | 9748.000 | 44.27 | 38.50 | 7.02 | 37.41 | 52.38 | 74.00 | -21.62 | HORIZONTAL | Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



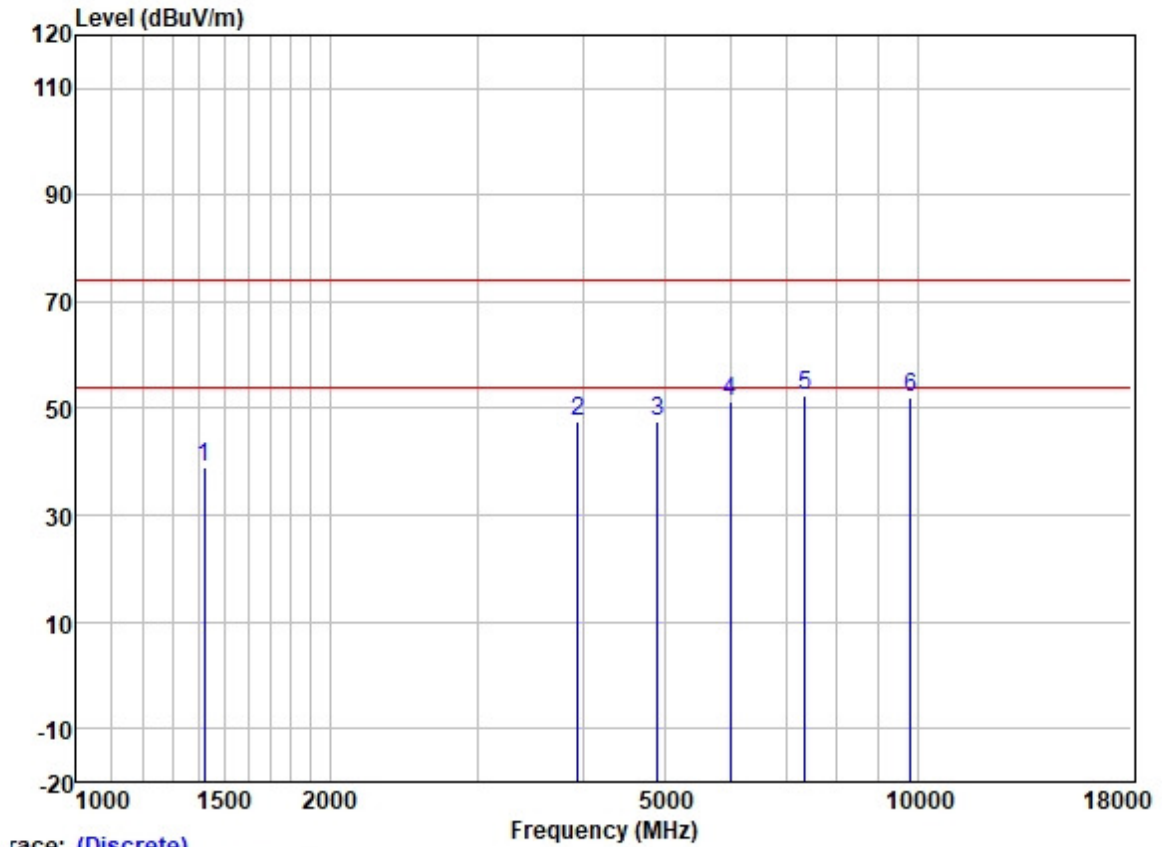
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1692.231 | 48.81 | 25.70 | 2.80 | 37.89 | 39.42 | 74.00 -34.58 | VERTICAL | Peak |
| 2 | 4304.400 | 49.51 | 30.48 | 4.65 | 36.81 | 47.83 | 74.00 -26.17 | VERTICAL | Peak |
| 3 | 4874.000 | 47.13 | 31.54 | 5.50 | 36.84 | 47.33 | 74.00 -26.67 | VERTICAL | Peak |
| 4 | 6914.763 | 47.37 | 34.89 | 5.81 | 37.19 | 50.88 | 74.00 -23.12 | VERTICAL | Peak |
| 5 | 7311.000 | 47.72 | 35.93 | 6.11 | 37.42 | 52.34 | 74.00 -21.66 | VERTICAL | Peak |
| 6 | 9748.000 | 44.09 | 38.50 | 7.02 | 37.41 | 52.20 | 74.00 -21.80 | VERTICAL | Peak |



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



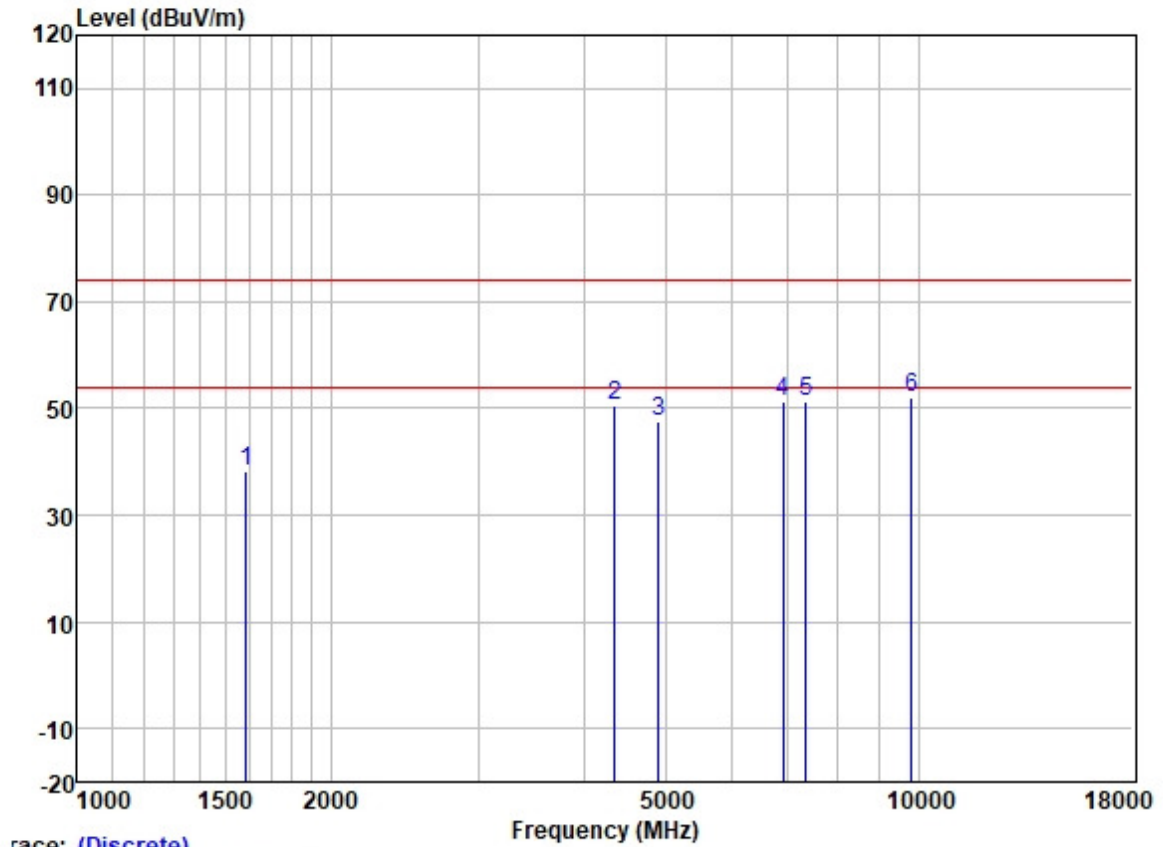
Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|------|----------|---------|-------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1418.692 | 48.99 | 25.42 | 2.63 | 38.20 | 38.84 | 74.00 | -35.16 | HORIZONTAL Peak |
| 2 | 3946.885 | 50.14 | 29.74 | 4.60 | 36.81 | 47.67 | 74.00 | -26.33 | HORIZONTAL Peak |
| 3 | 4904.000 | 47.40 | 31.58 | 5.55 | 36.84 | 47.69 | 74.00 | -26.31 | HORIZONTAL Peak |
| 4 | 5984.305 | 49.52 | 32.39 | 6.15 | 36.90 | 51.16 | 74.00 | -22.84 | HORIZONTAL Peak |
| 5 | 7356.000 | 47.70 | 36.06 | 6.15 | 37.44 | 52.47 | 74.00 | -21.53 | HORIZONTAL Peak |
| 6 | 9808.000 | 43.90 | 38.56 | 7.00 | 37.41 | 52.05 | 74.00 | -21.95 | HORIZONTAL Peak |



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1587.975 | 47.82 | 25.57 | 2.80 | 37.98 | 38.21 | 74.00 -35.79 | VERTICAL | Peak |
| 2 | 4354.454 | 52.09 | 30.59 | 4.68 | 36.81 | 50.55 | 74.00 -23.45 | VERTICAL | Peak |
| 3 | 4904.000 | 47.42 | 31.58 | 5.55 | 36.84 | 47.71 | 74.00 -26.29 | VERTICAL | Peak |
| 4 | 6894.806 | 47.82 | 34.85 | 5.81 | 37.18 | 51.30 | 74.00 -22.70 | VERTICAL | Peak |
| 5 | 7356.000 | 46.43 | 36.06 | 6.15 | 37.44 | 51.20 | 74.00 -22.80 | VERTICAL | Peak |
| 6 | 9808.000 | 44.00 | 38.56 | 7.00 | 37.41 | 52.15 | 74.00 -21.85 | VERTICAL | Peak |



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8 Test Setup Photo

Conducted Emissions at AC Power Line (150kHz-30MHz)



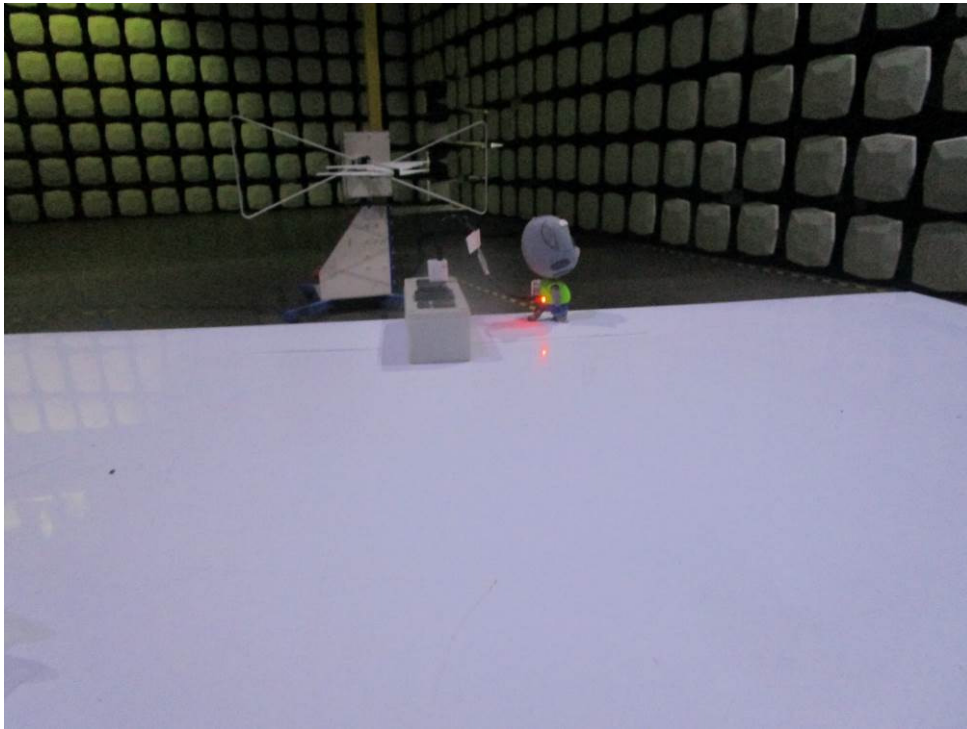
Radiated Emissions which fall in the restricted bands



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Radiated Spurious Emissions (Below 1GHz)



Radiated Spurious Emissions (Above 1GHz)



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2109021177AT

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

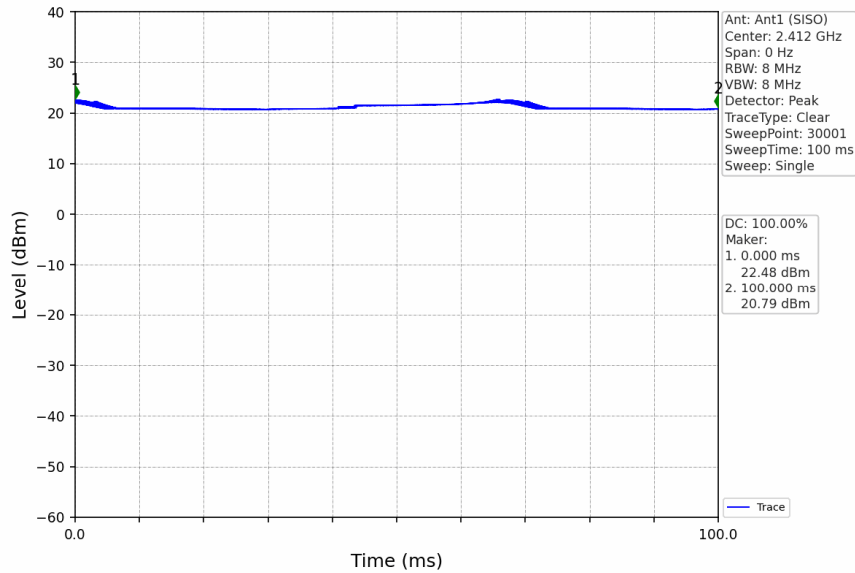
| Ant1 | | | | | | | |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b | SISO | 2412 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2437 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2462 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| 802.11g | SISO | 2412 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2437 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2462 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| 802.11n (HT20) | SISO | 2412 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2437 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2462 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| 802.11n (HT40) | SISO | 2422 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2437 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2452 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |



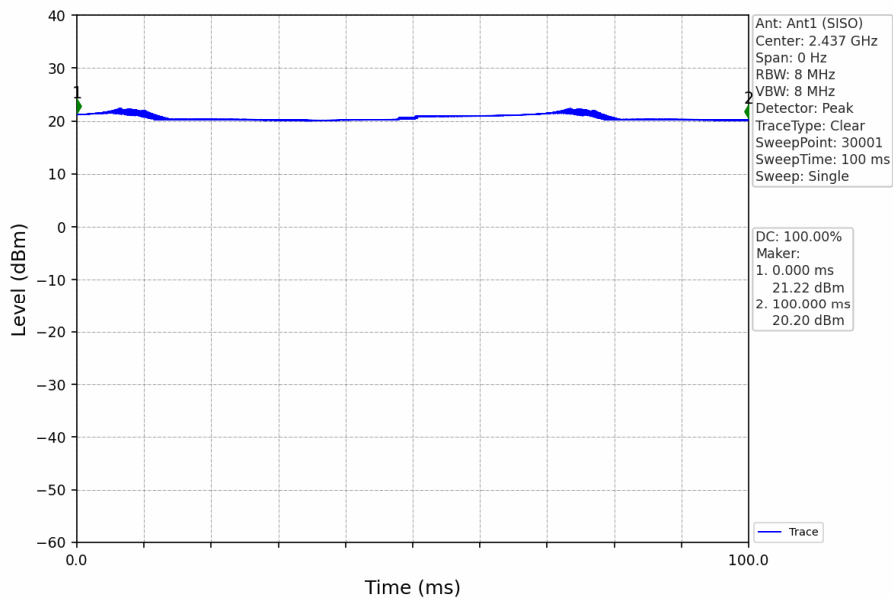
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1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



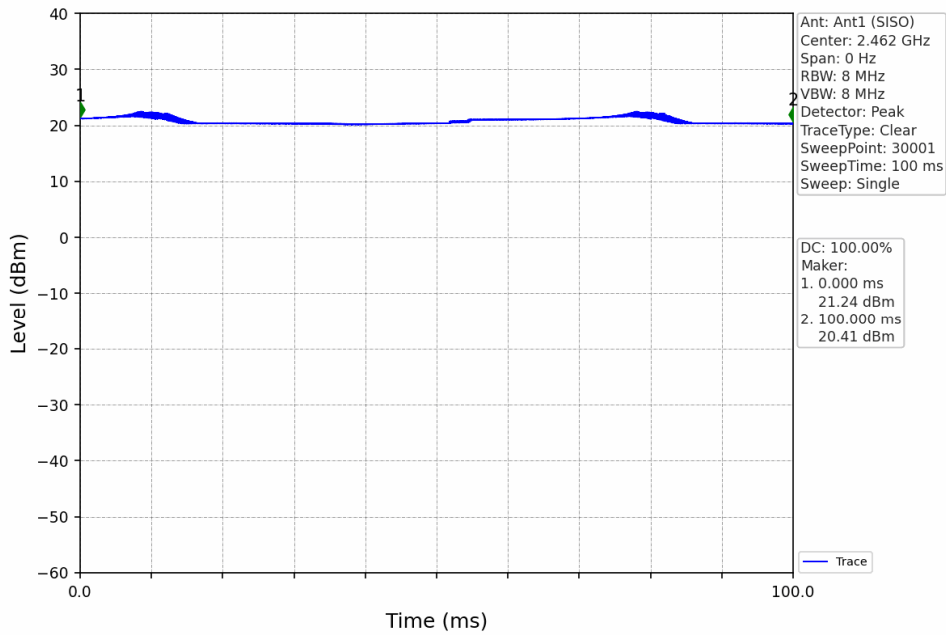
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



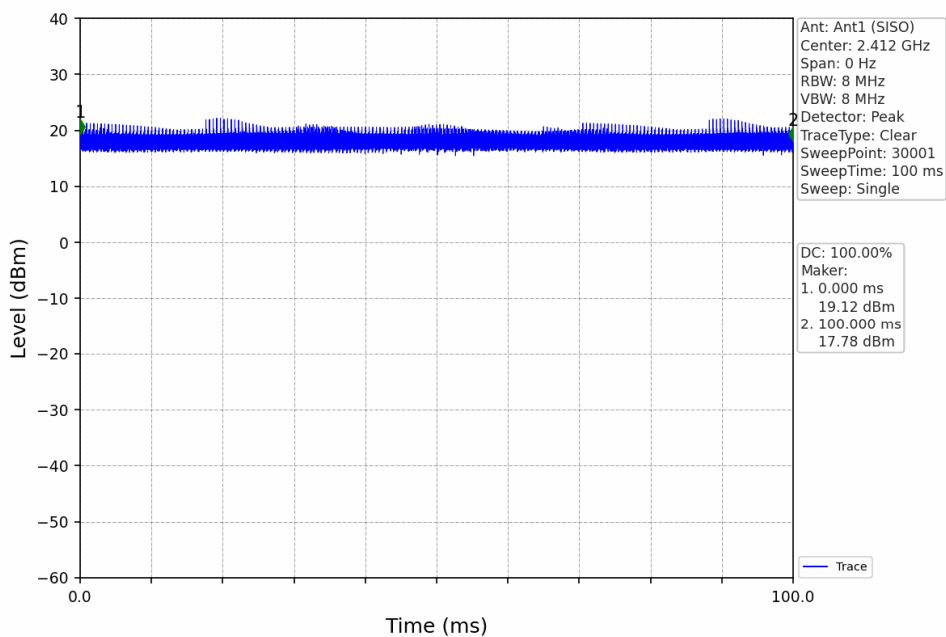
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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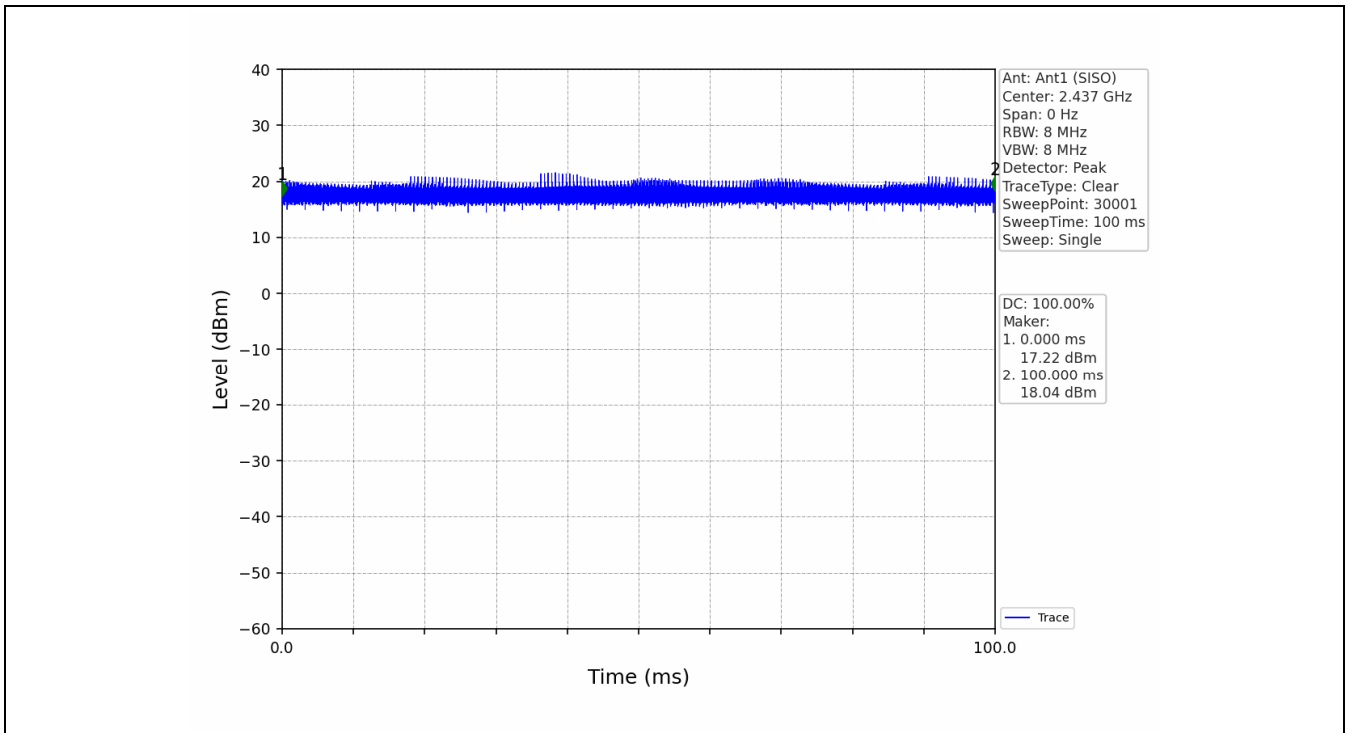
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



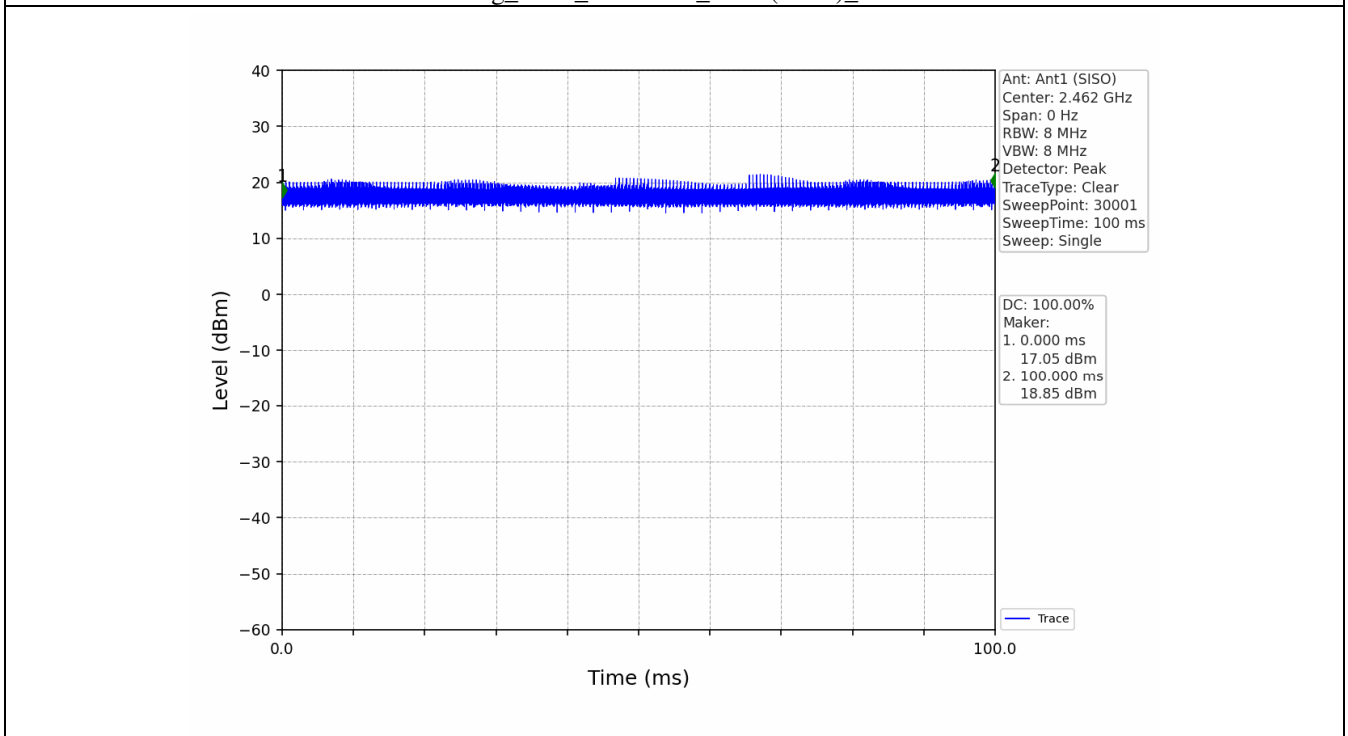
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

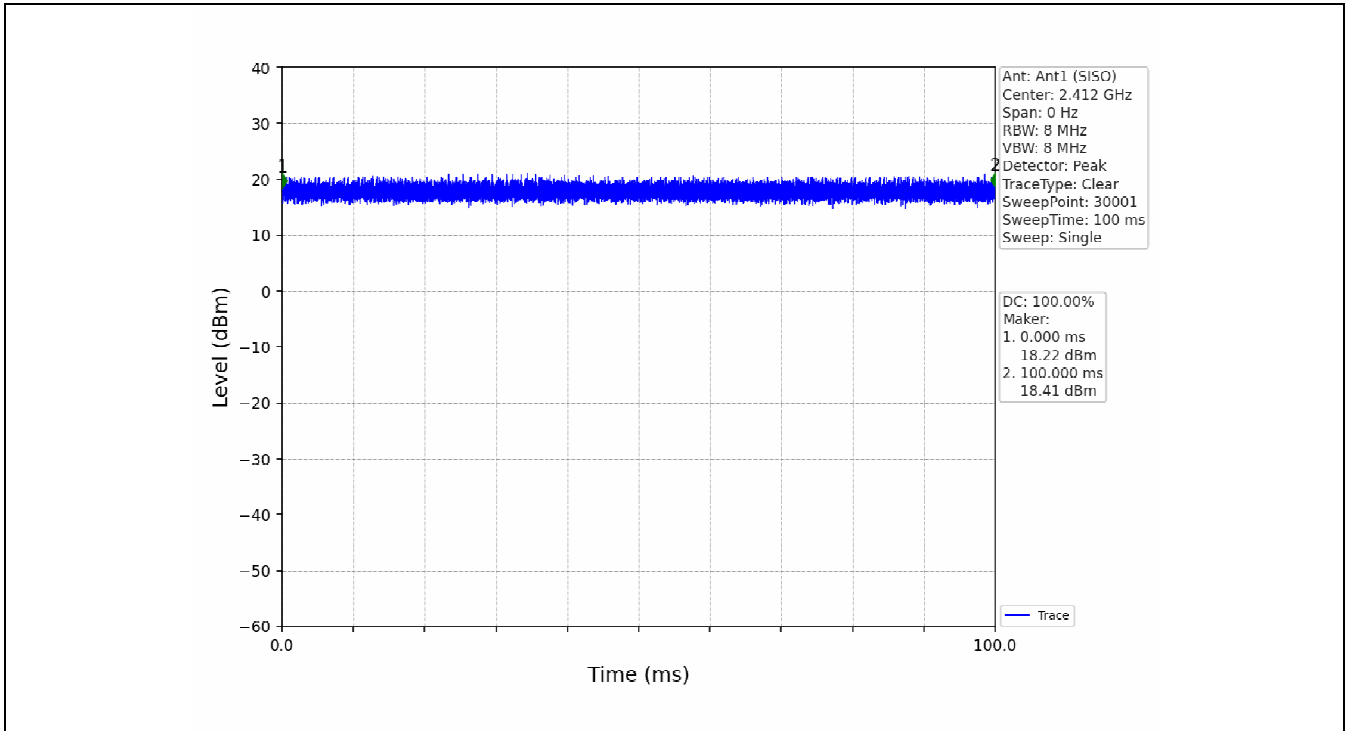


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

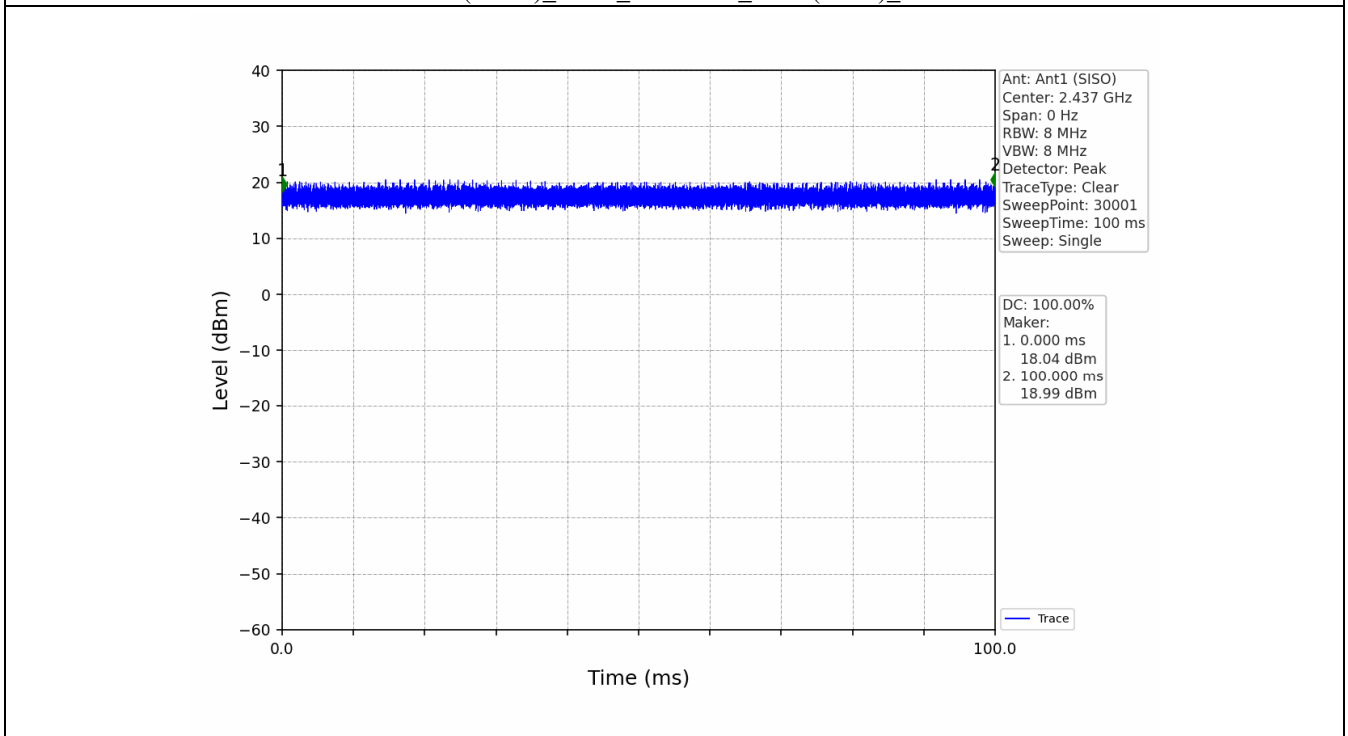


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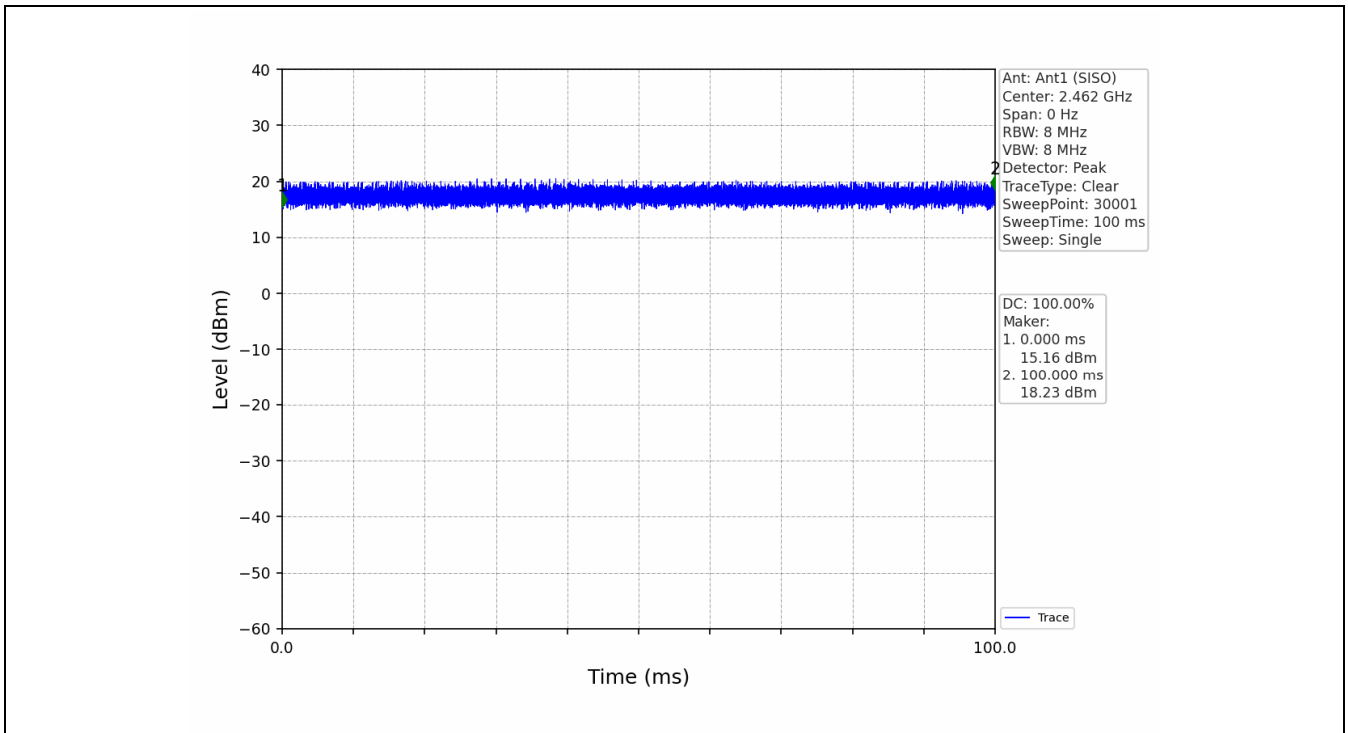
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



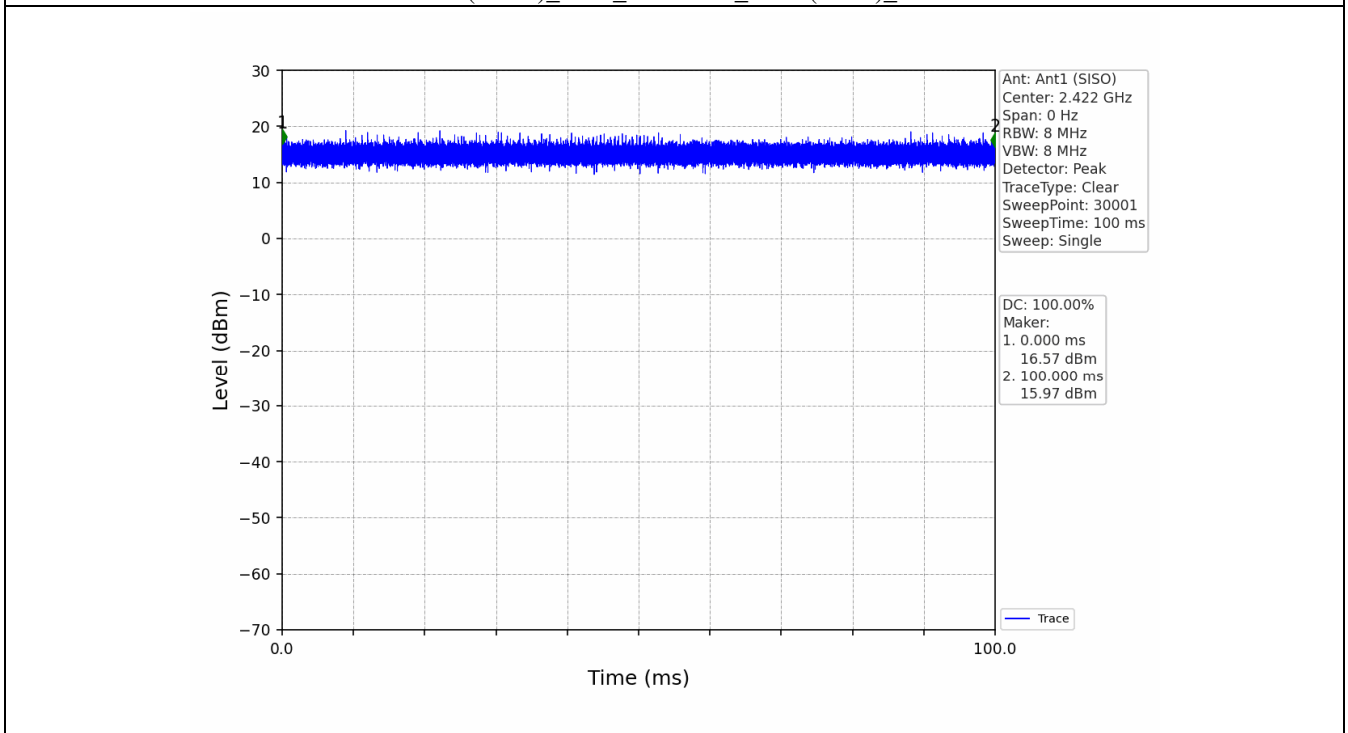
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

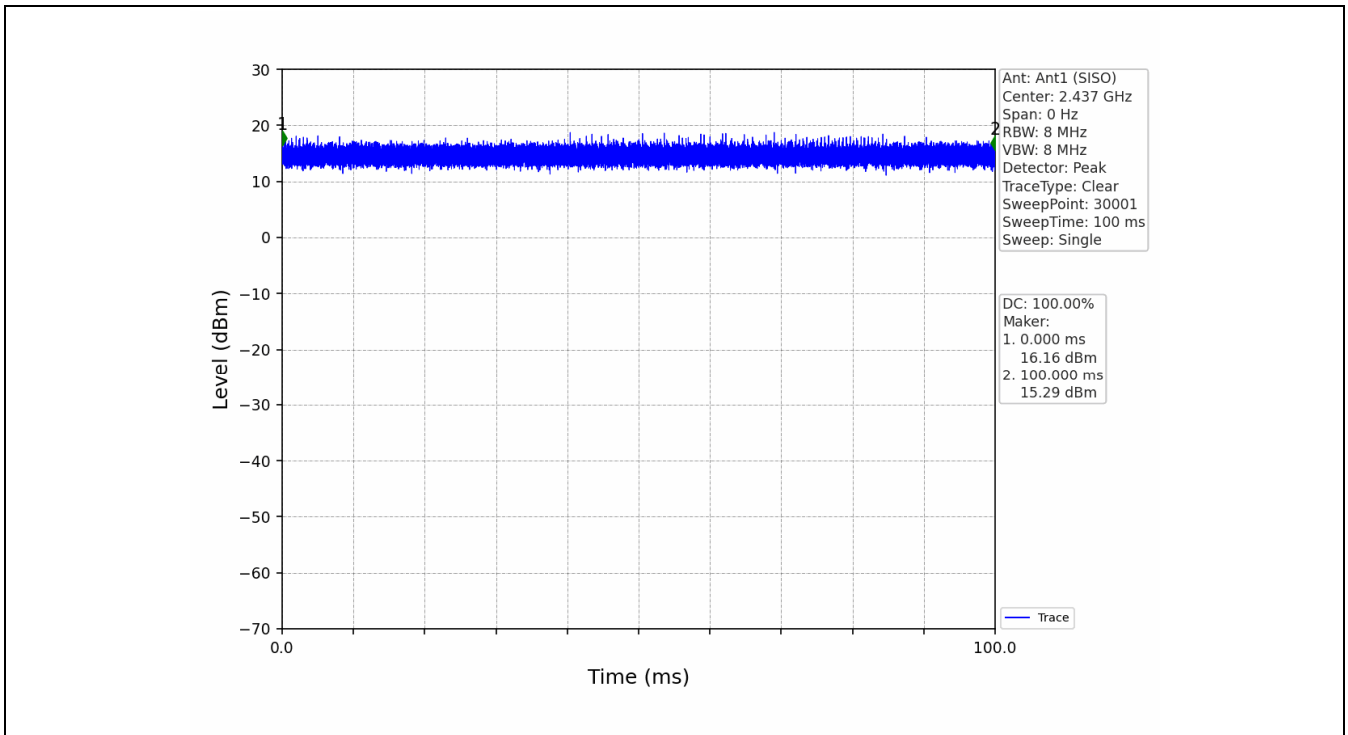


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

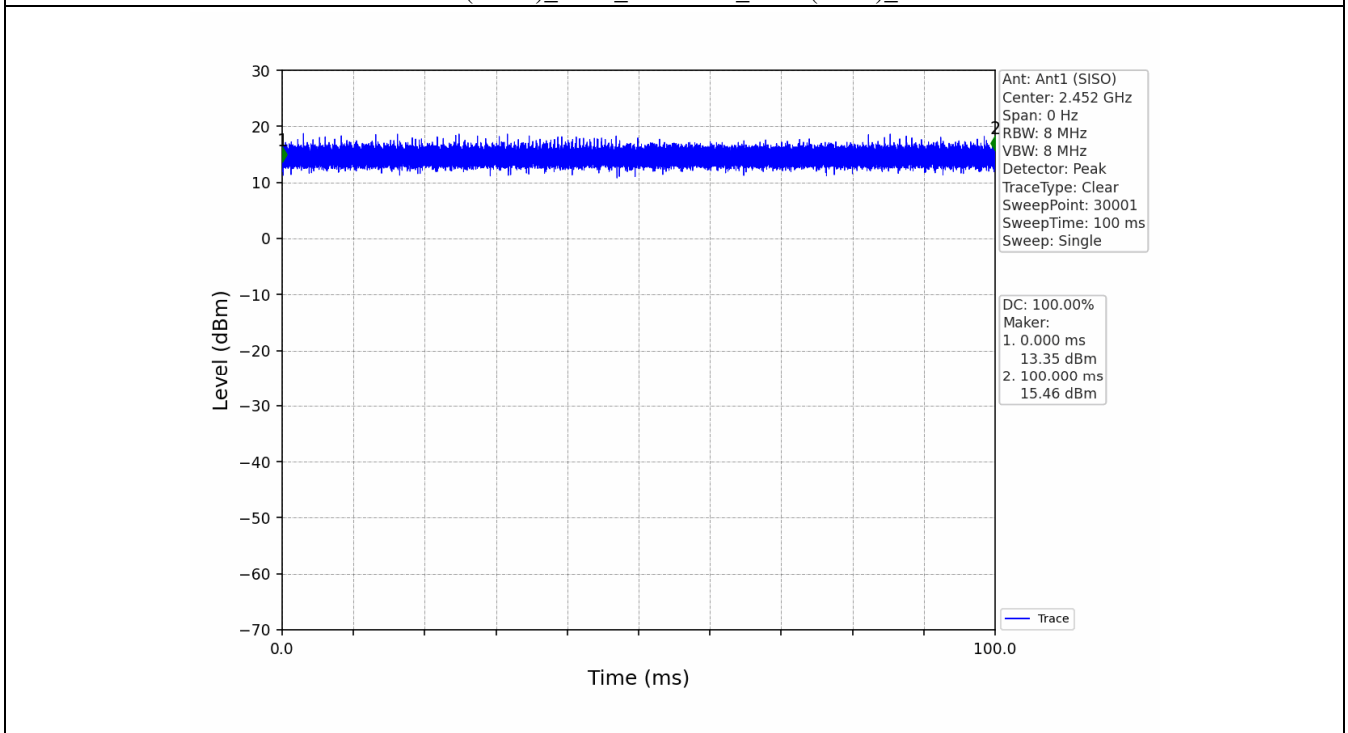


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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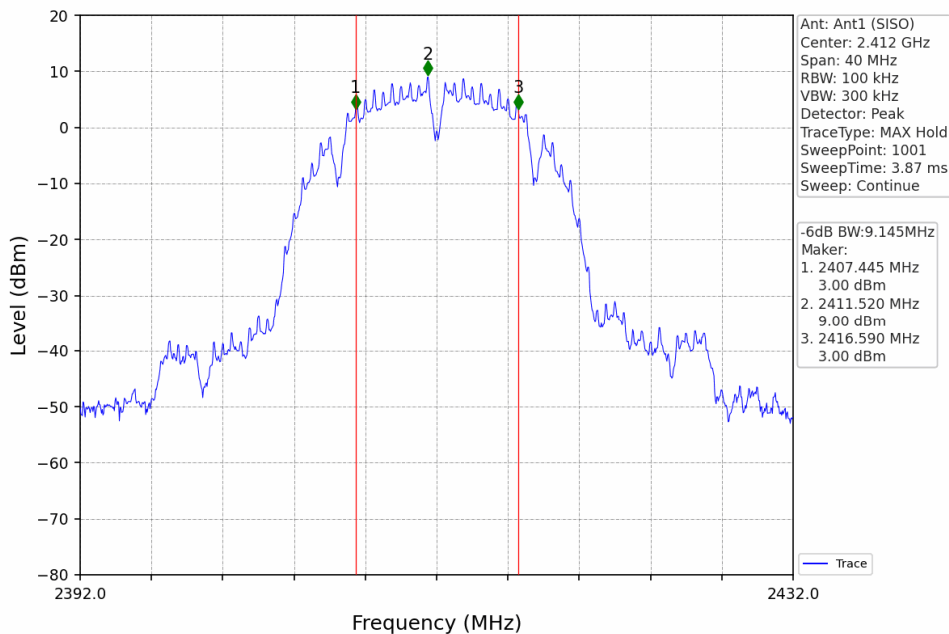
2. 6dB Bandwidth

2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 9.145 | >=0.5 | Pass |
| | | 2437 | 1 | 9.145 | >=0.5 | Pass |
| | | 2462 | 1 | 9.148 | >=0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 16.383 | >=0.5 | Pass |
| | | 2437 | 1 | 16.384 | >=0.5 | Pass |
| | | 2462 | 1 | 16.381 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 16.976 | >=0.5 | Pass |
| | | 2437 | 1 | 16.918 | >=0.5 | Pass |
| | | 2462 | 1 | 16.905 | >=0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 31.693 | >=0.5 | Pass |
| | | 2437 | 1 | 31.916 | >=0.5 | Pass |
| | | 2452 | 1 | 31.632 | >=0.5 | Pass |

2.2 Test Graph

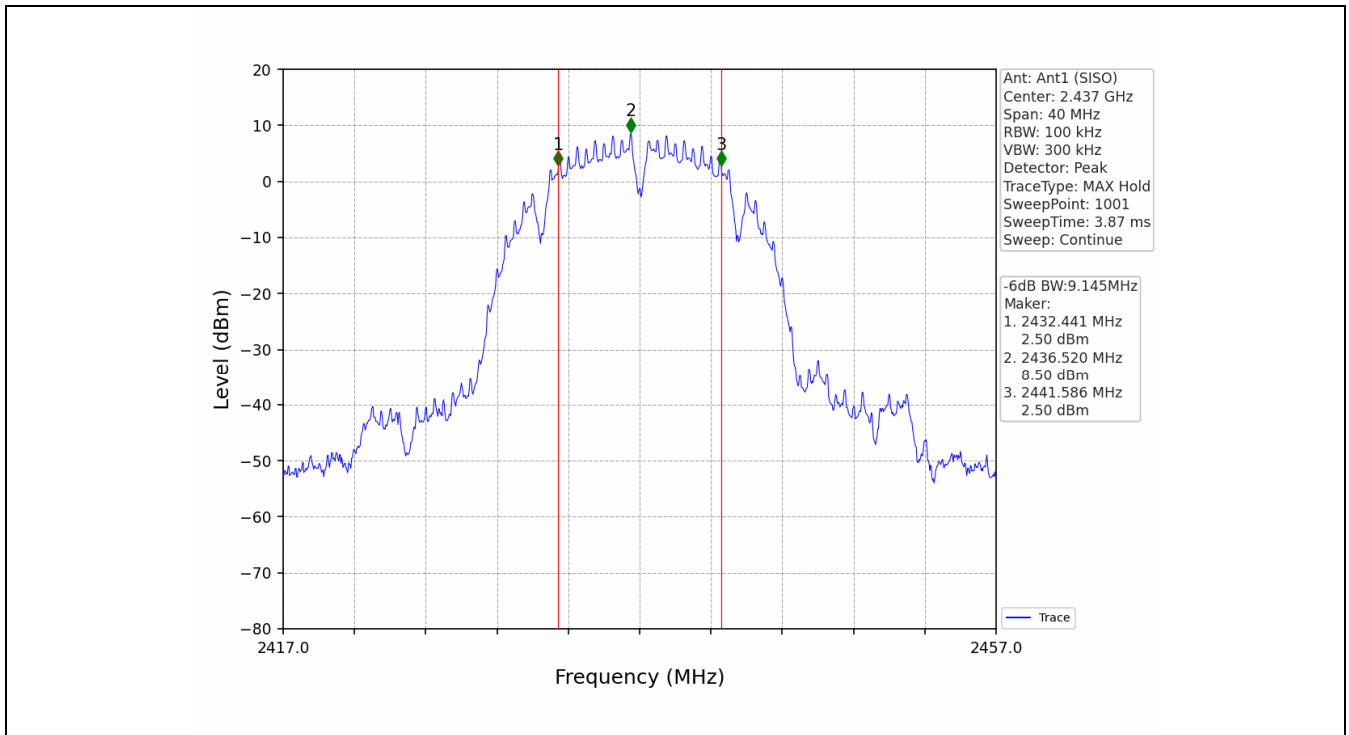
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



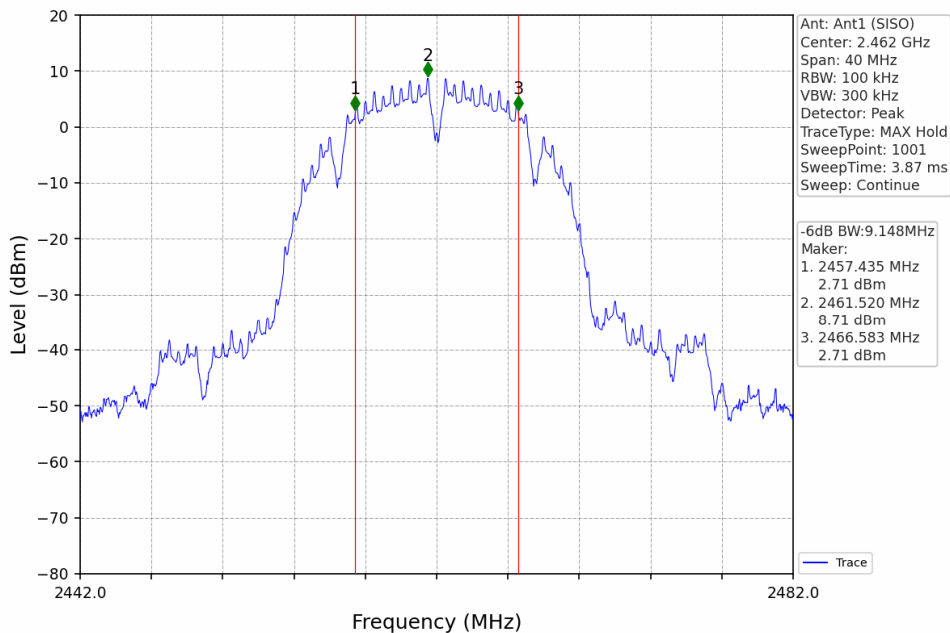
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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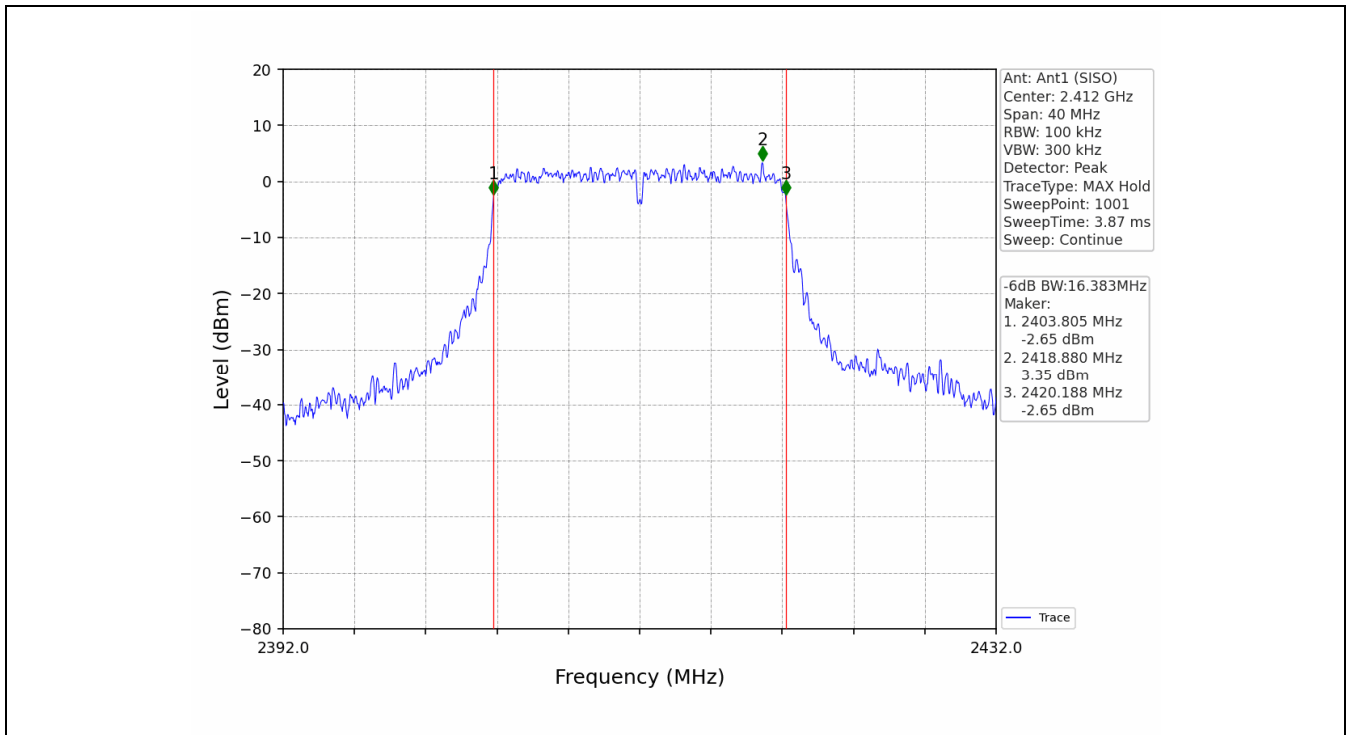
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



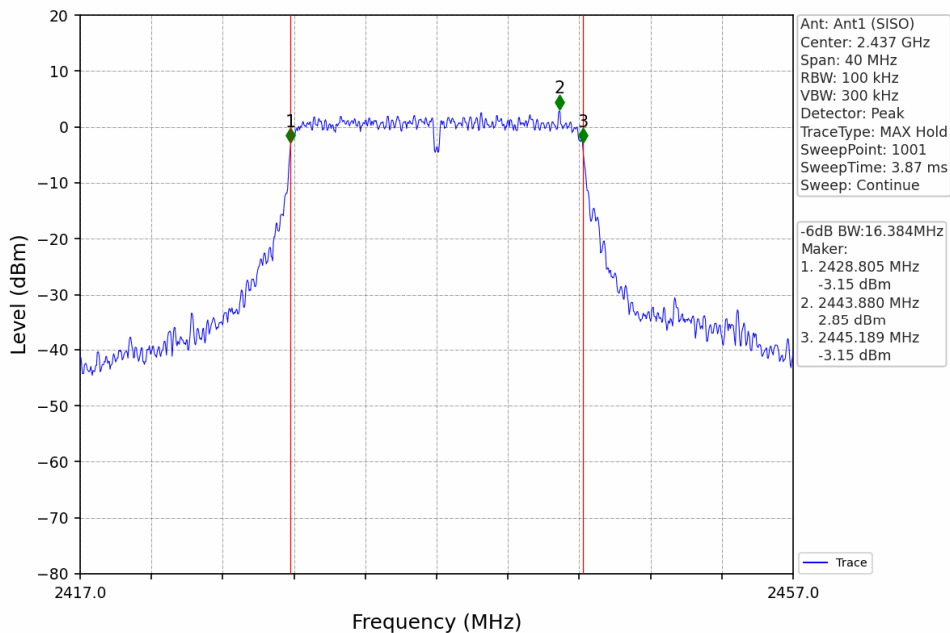
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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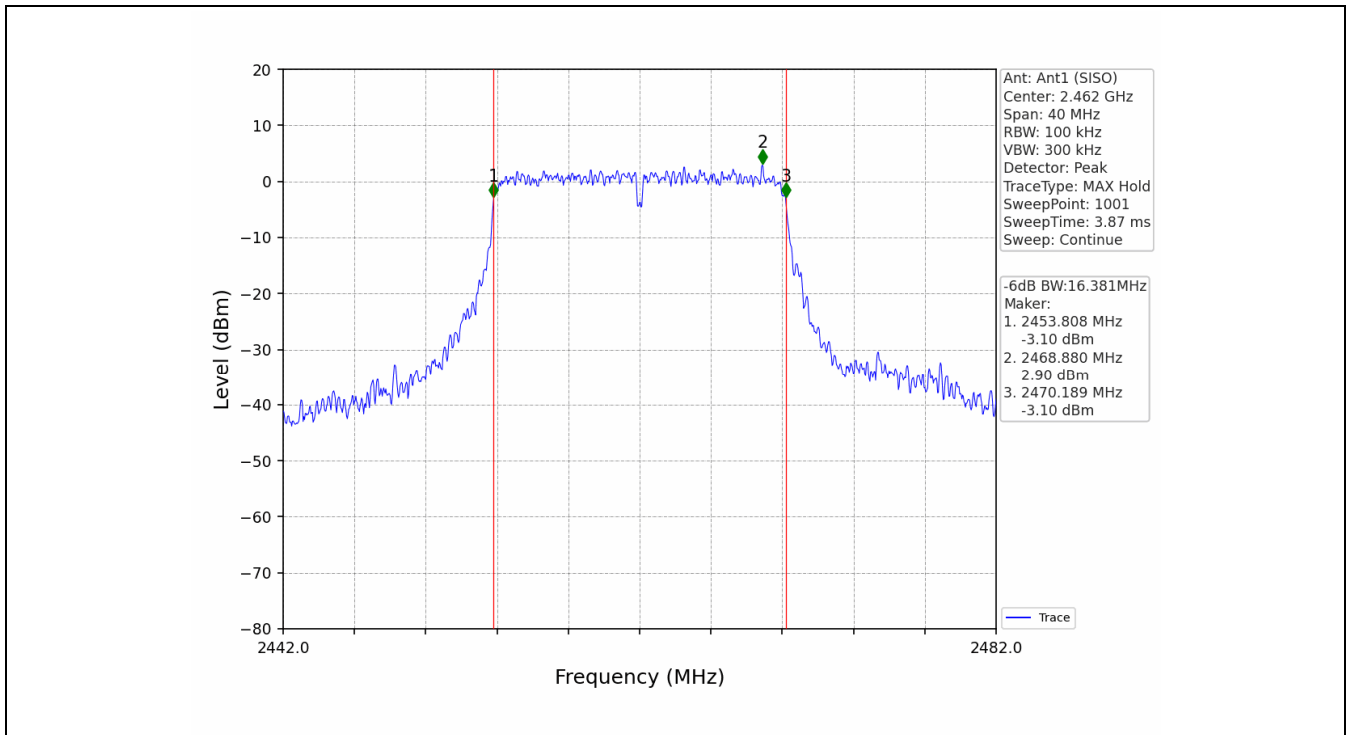
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



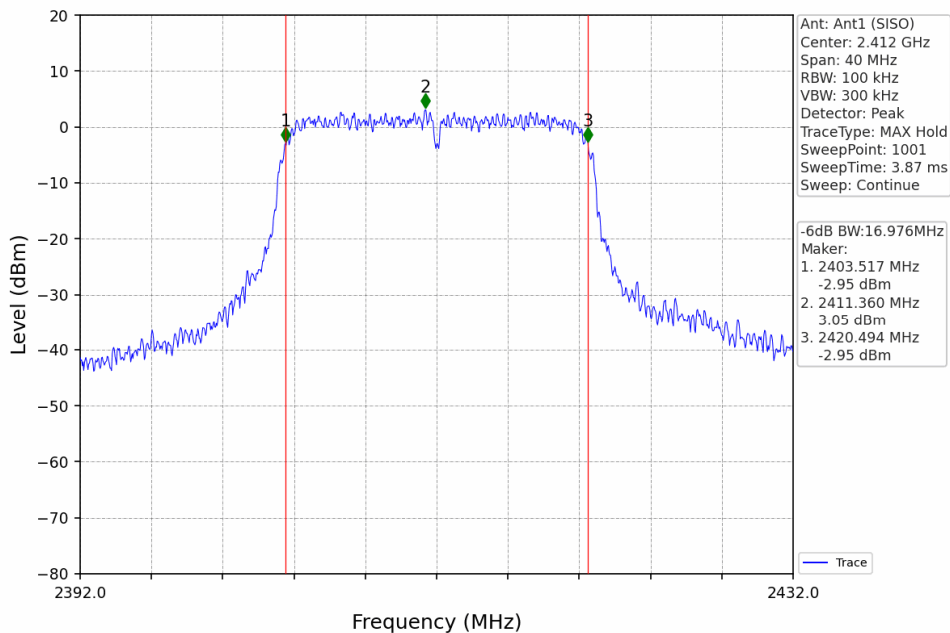
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

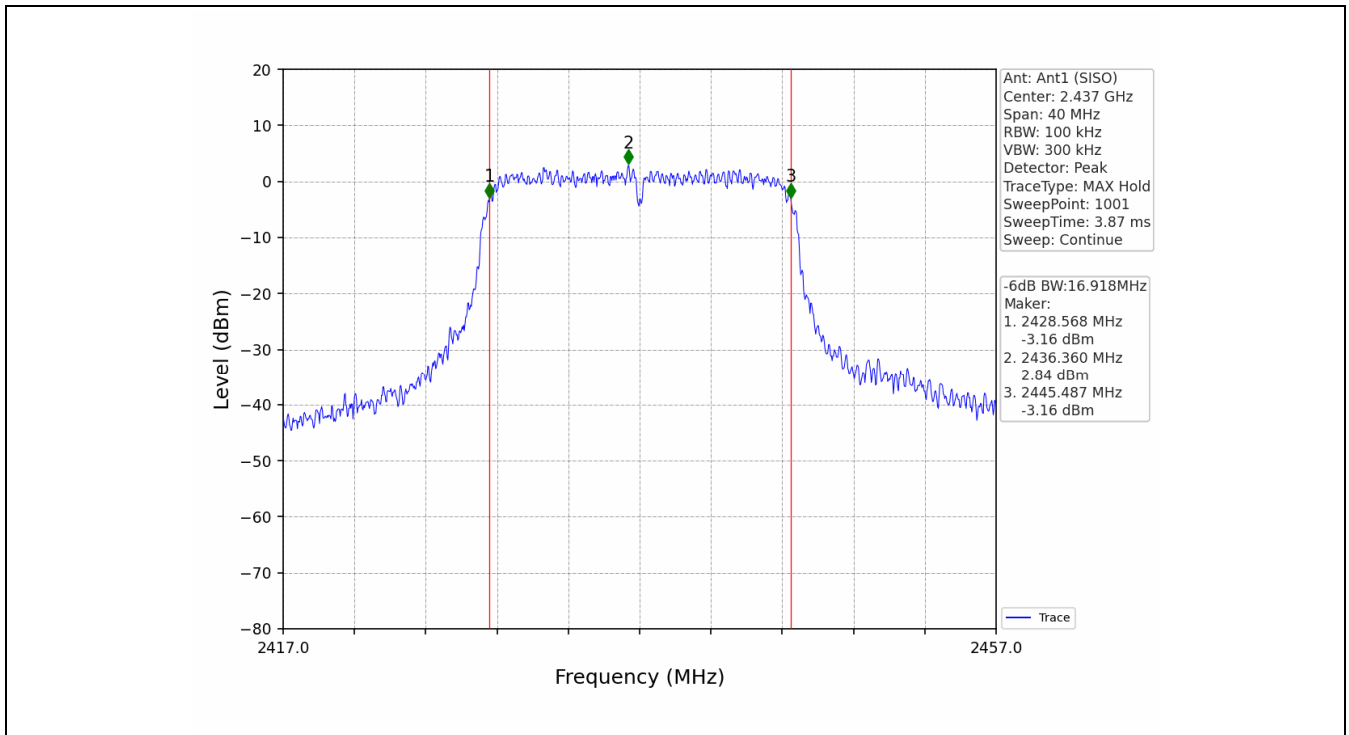


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

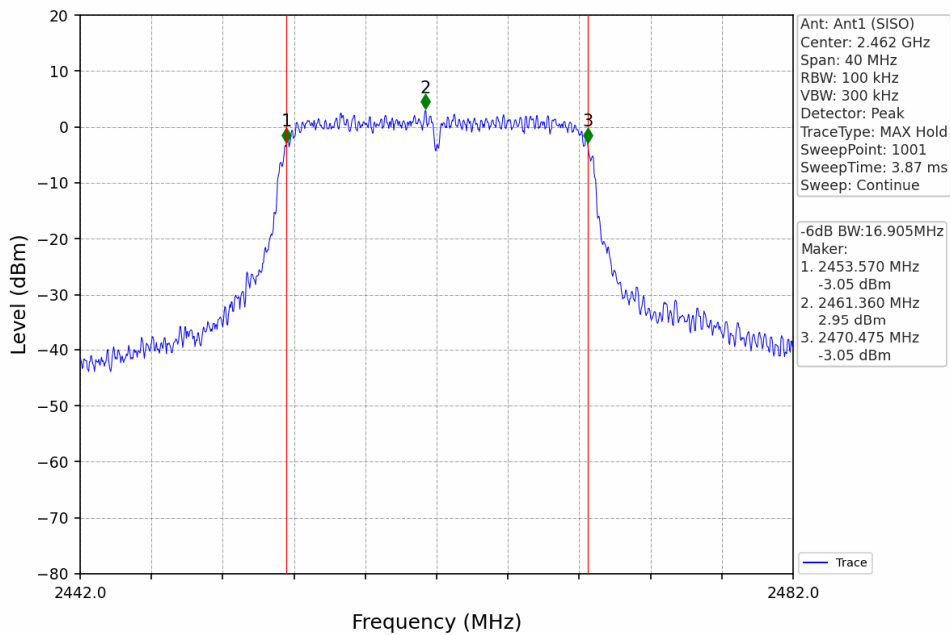


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

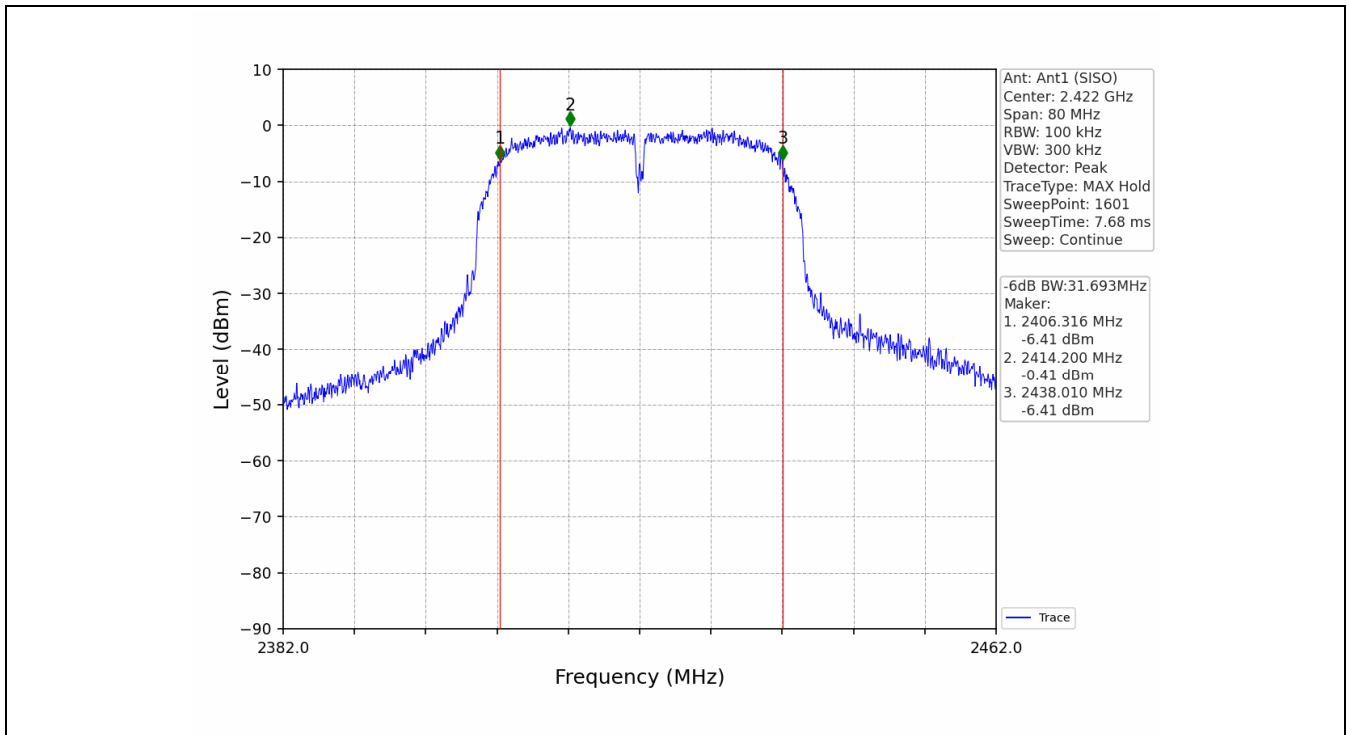


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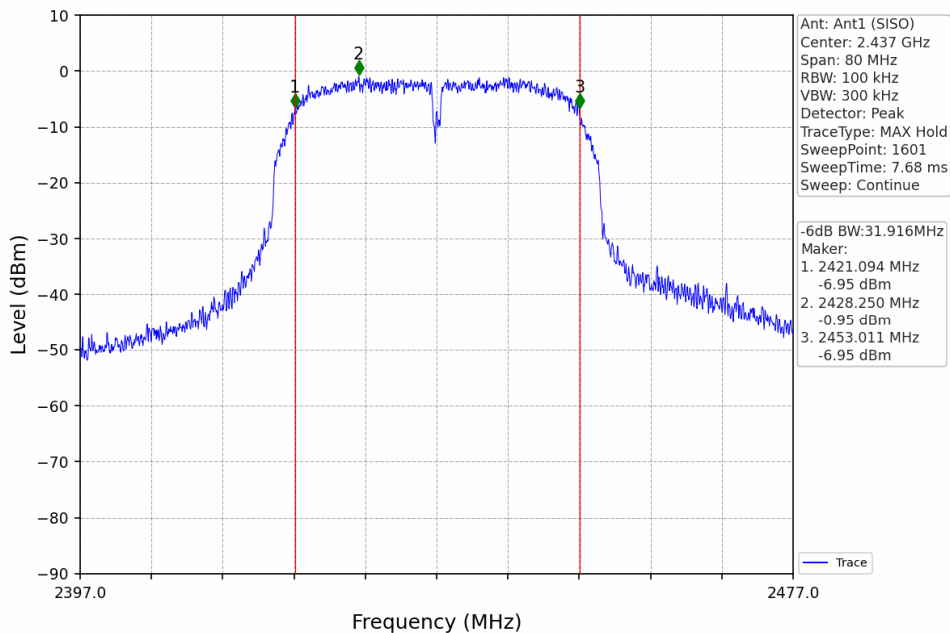


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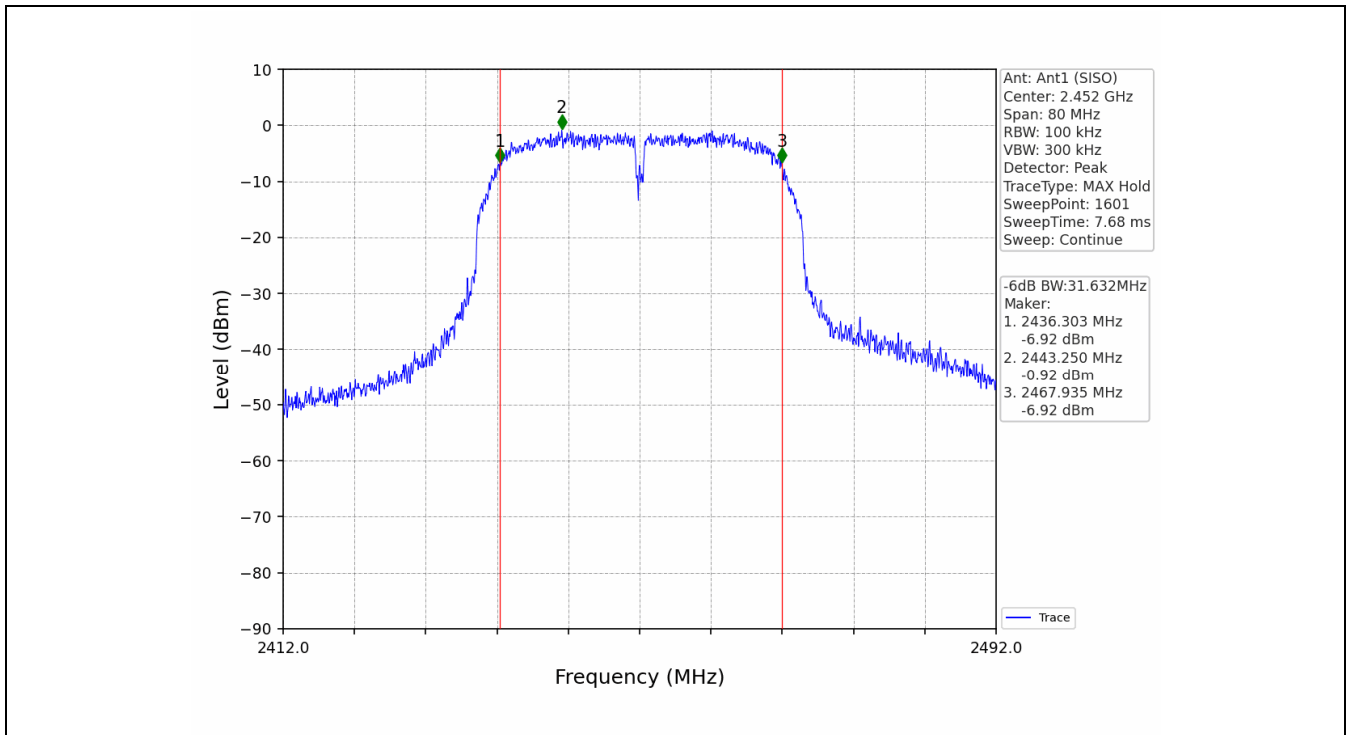
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Average Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Conducted Output Average Power (dBm) | | Verdict |
|----------------|---------|-----------------|--|-------|---------|
| | | | Ant1 | Limit | |
| 802.11b | SISO | 2412 | 12.52 | <=30 | Pass |
| | | 2437 | 17.02 | <=30 | Pass |
| | | 2462 | 17.18 | <=30 | Pass |
| 802.11g | SISO | 2412 | 12.32 | <=30 | Pass |
| | | 2437 | 15.68 | <=30 | Pass |
| | | 2462 | 13.54 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 11.81 | <=30 | Pass |
| | | 2437 | 15.41 | <=30 | Pass |
| | | 2462 | 13.41 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 14.26 | <=30 | Pass |
| | | 2437 | 14.84 | <=30 | Pass |
| | | 2452 | 12.81 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 3.40dBi;



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4. Maximum Power Spectral Density

4.1 PSD

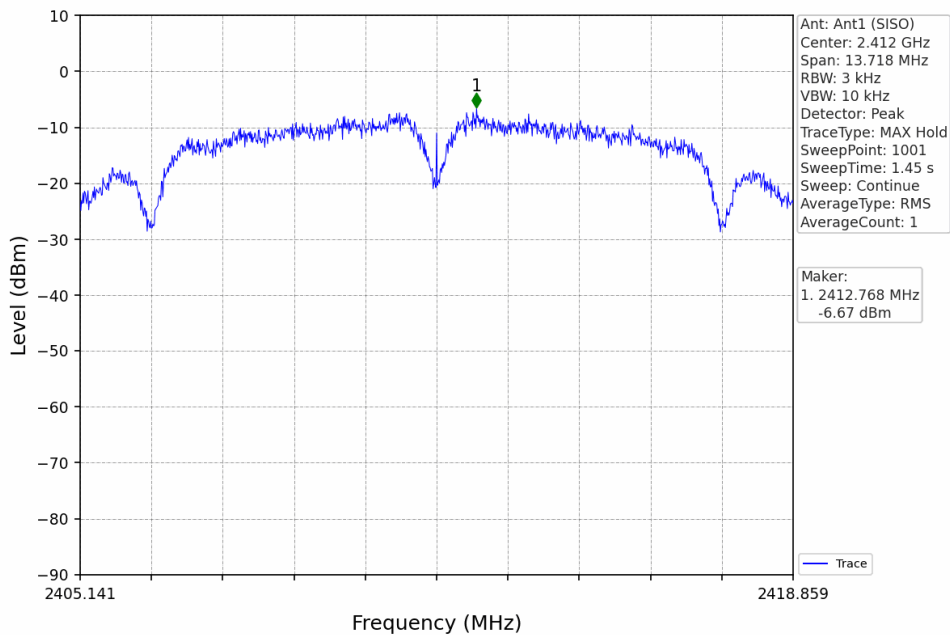
4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | Ant1 | Limit | |
| 802.11b | SISO | 2412 | -6.67 | <=8 | Pass |
| | | 2437 | -7.72 | <=8 | Pass |
| | | 2462 | -7.35 | <=8 | Pass |
| 802.11g | SISO | 2412 | -11.76 | <=8 | Pass |
| | | 2437 | -12.04 | <=8 | Pass |
| | | 2462 | -11.99 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -11.79 | <=8 | Pass |
| | | 2437 | -12.09 | <=8 | Pass |
| | | 2462 | -12.11 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -14.20 | <=8 | Pass |
| | | 2437 | -13.01 | <=8 | Pass |
| | | 2452 | -13.81 | <=8 | Pass |

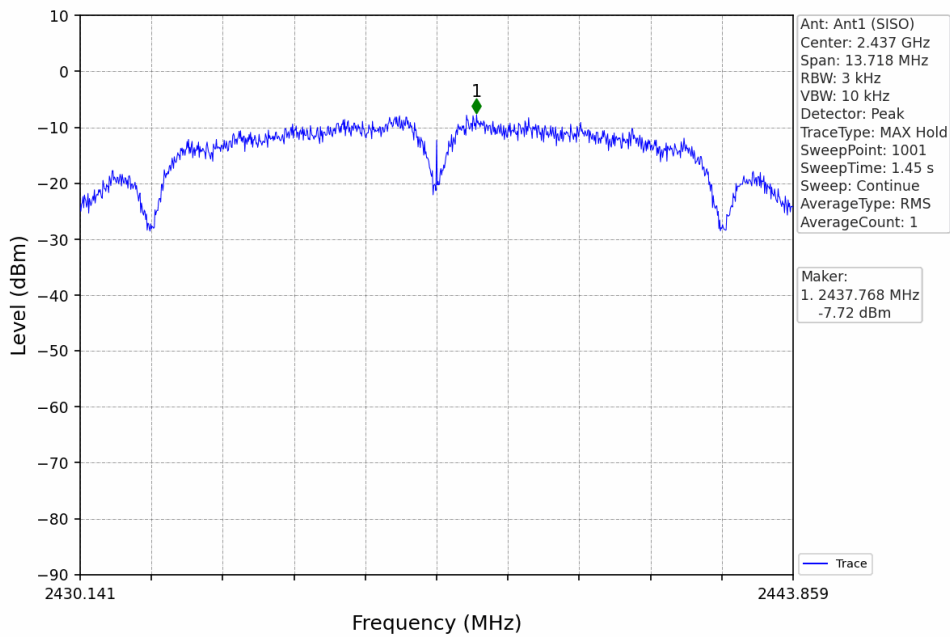
Note1: Antenna Gain: Ant1: 3.40dBi;

4.1.2 Test Graph

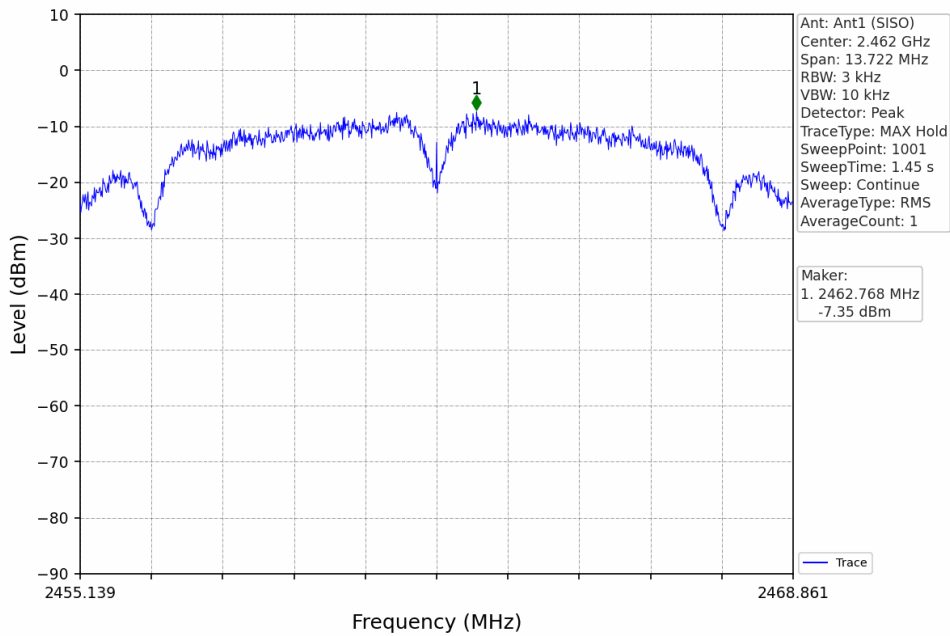
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

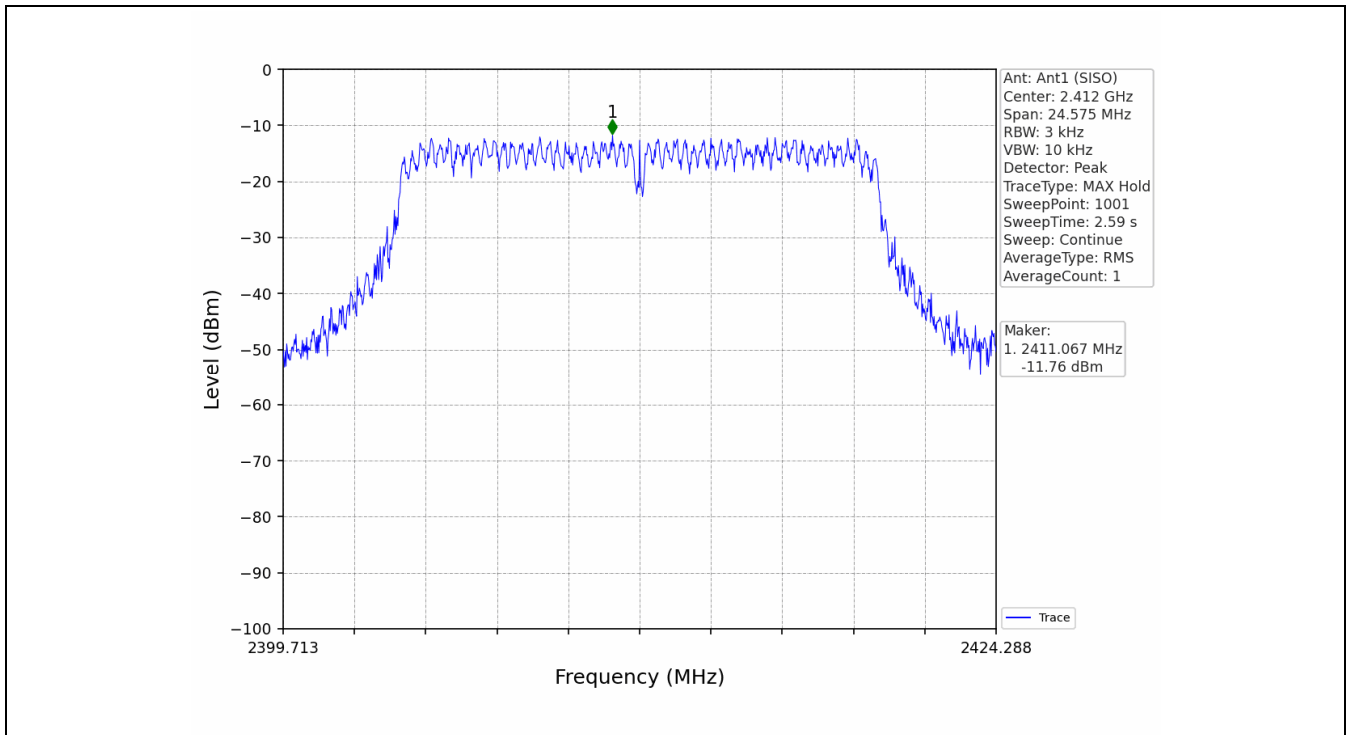


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

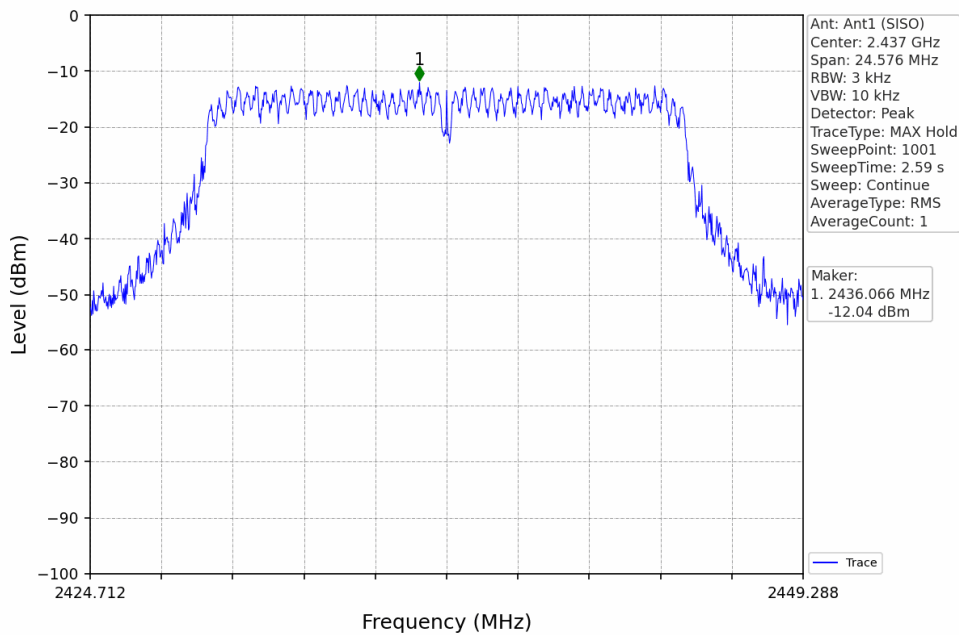


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV





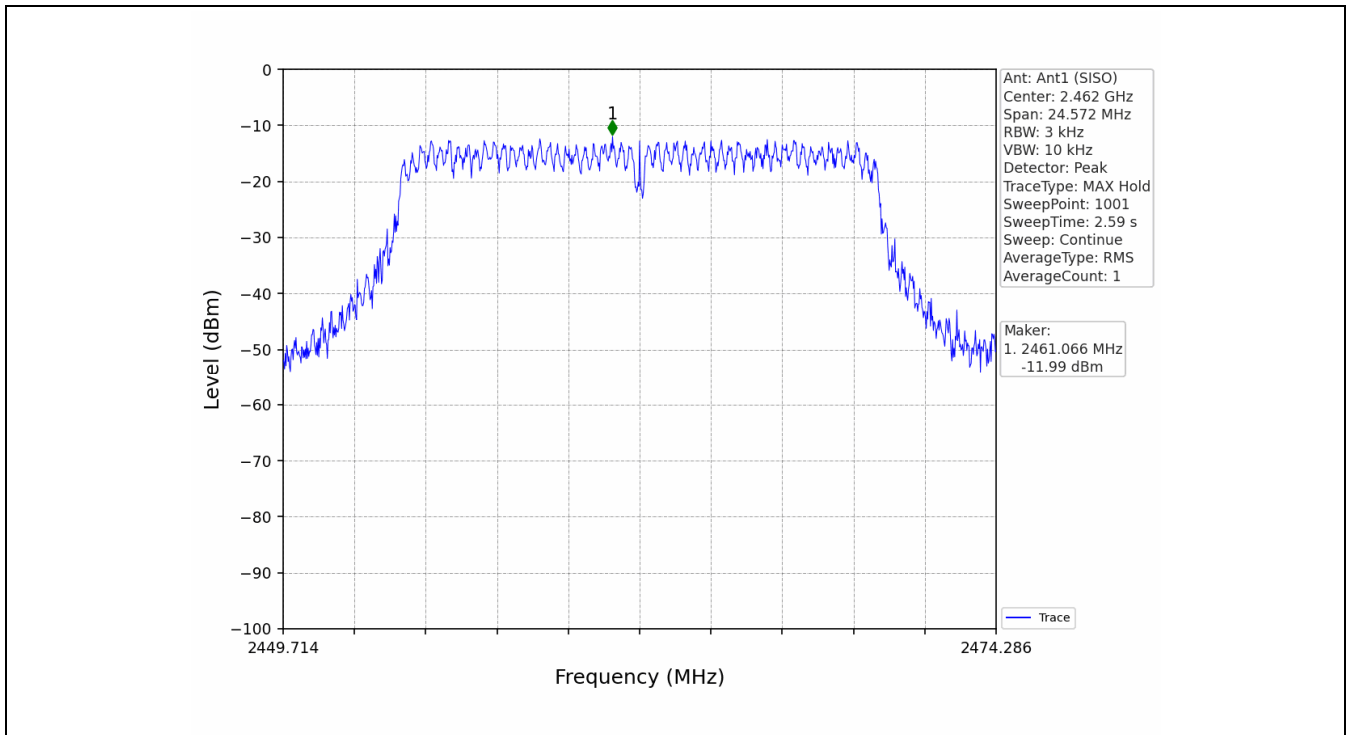
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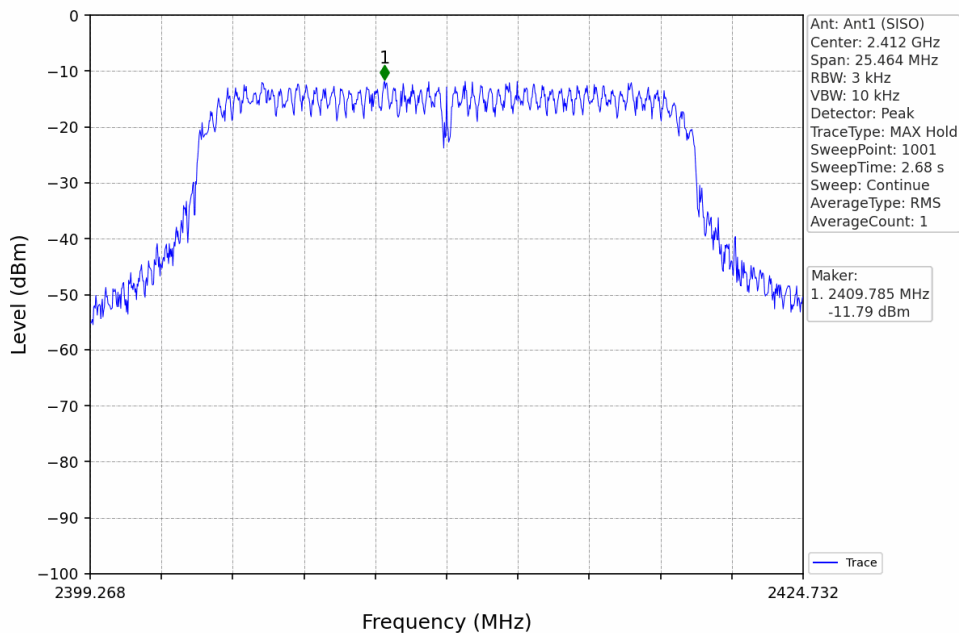
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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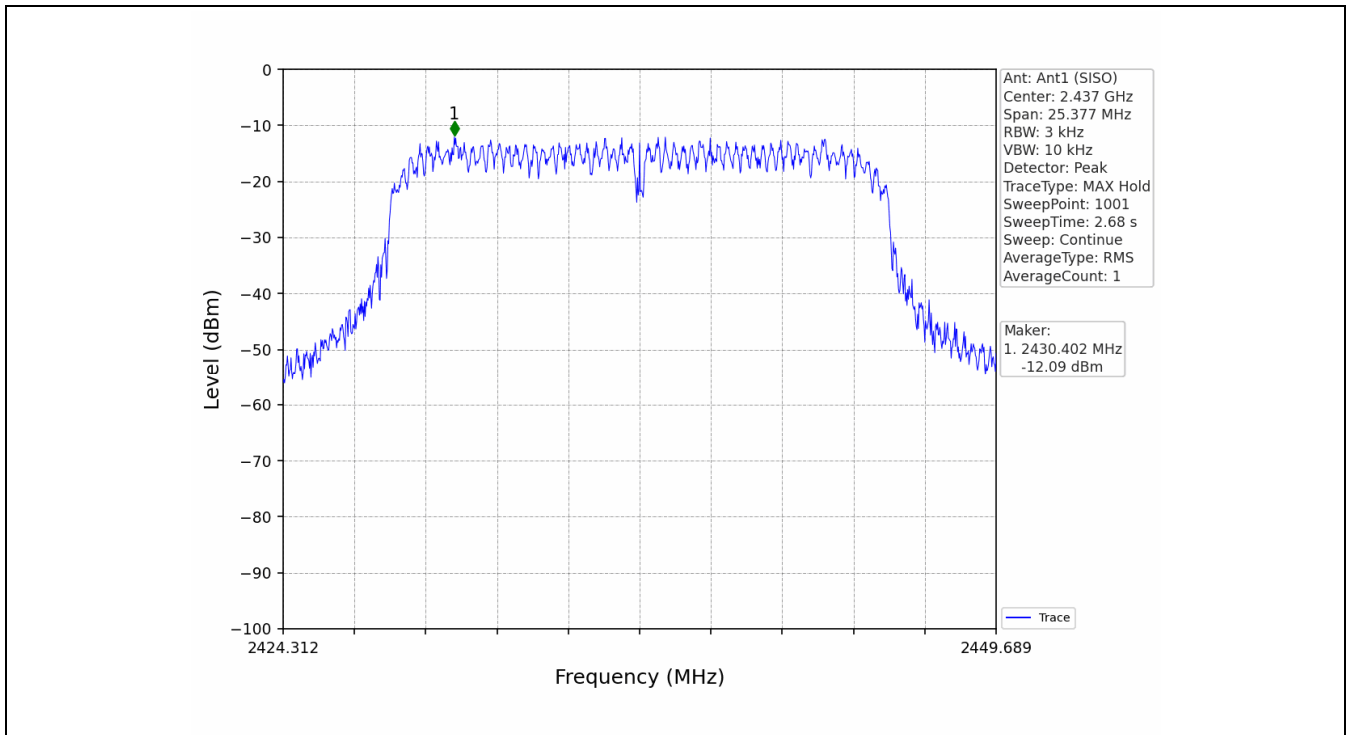
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



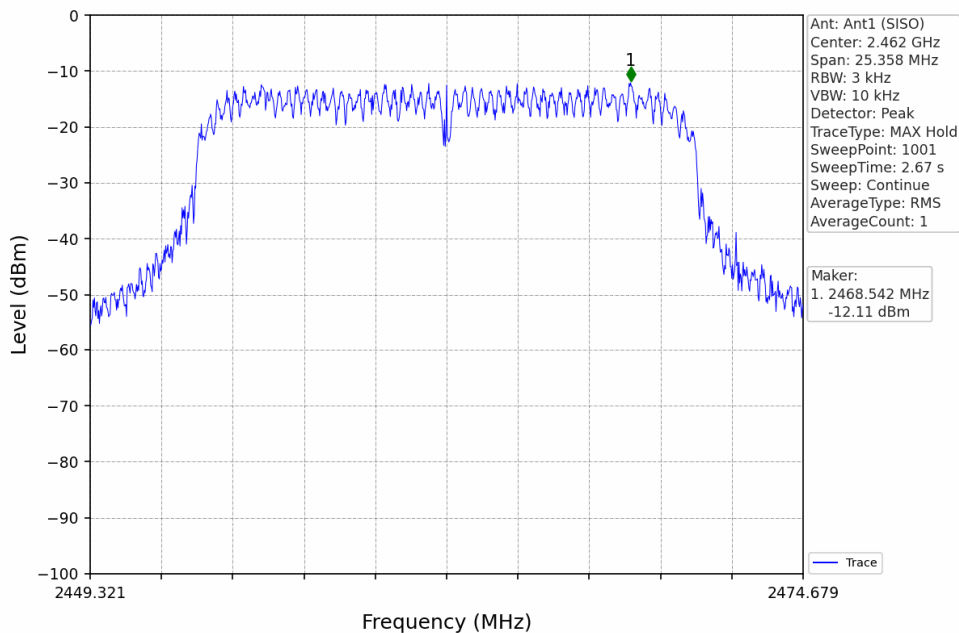
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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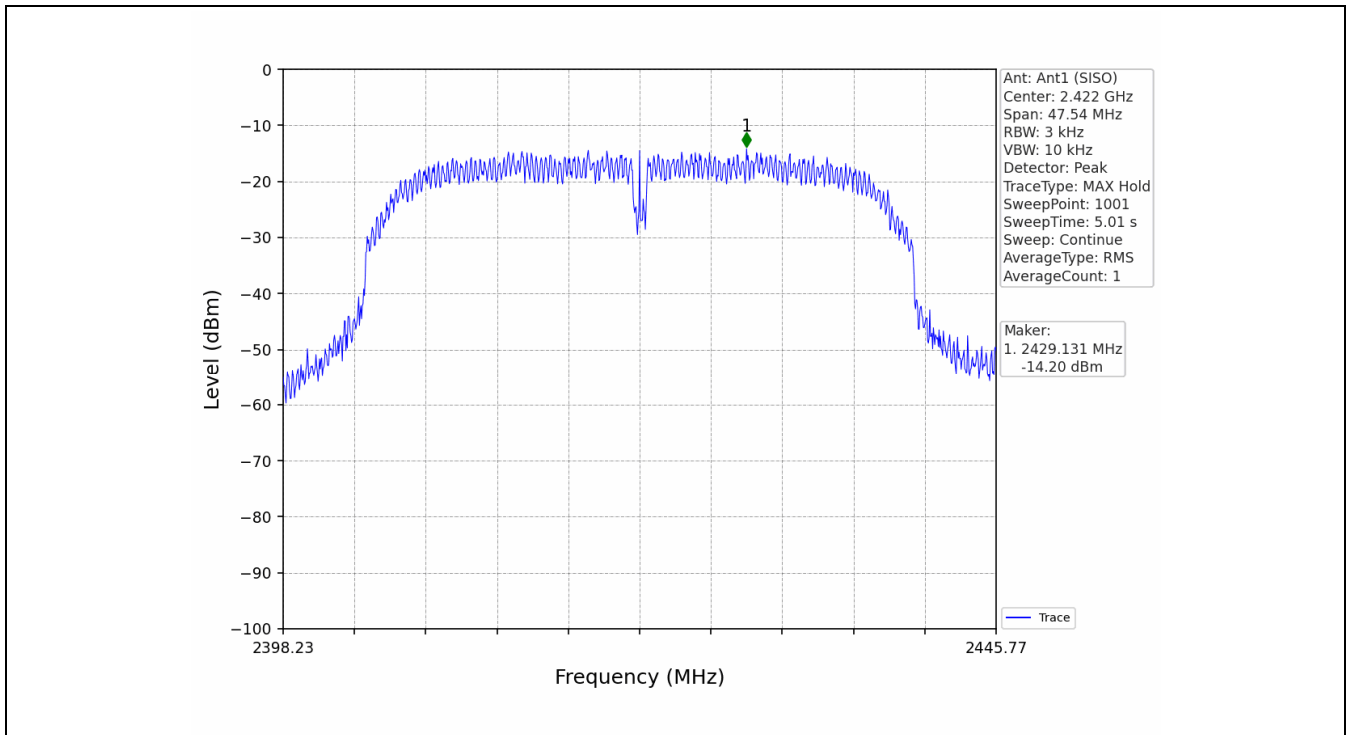
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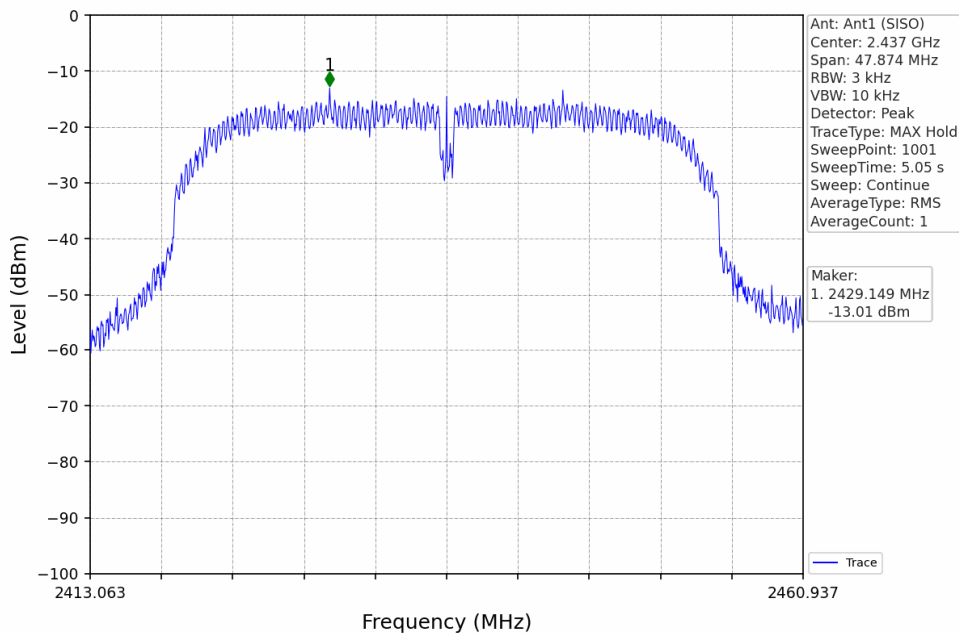
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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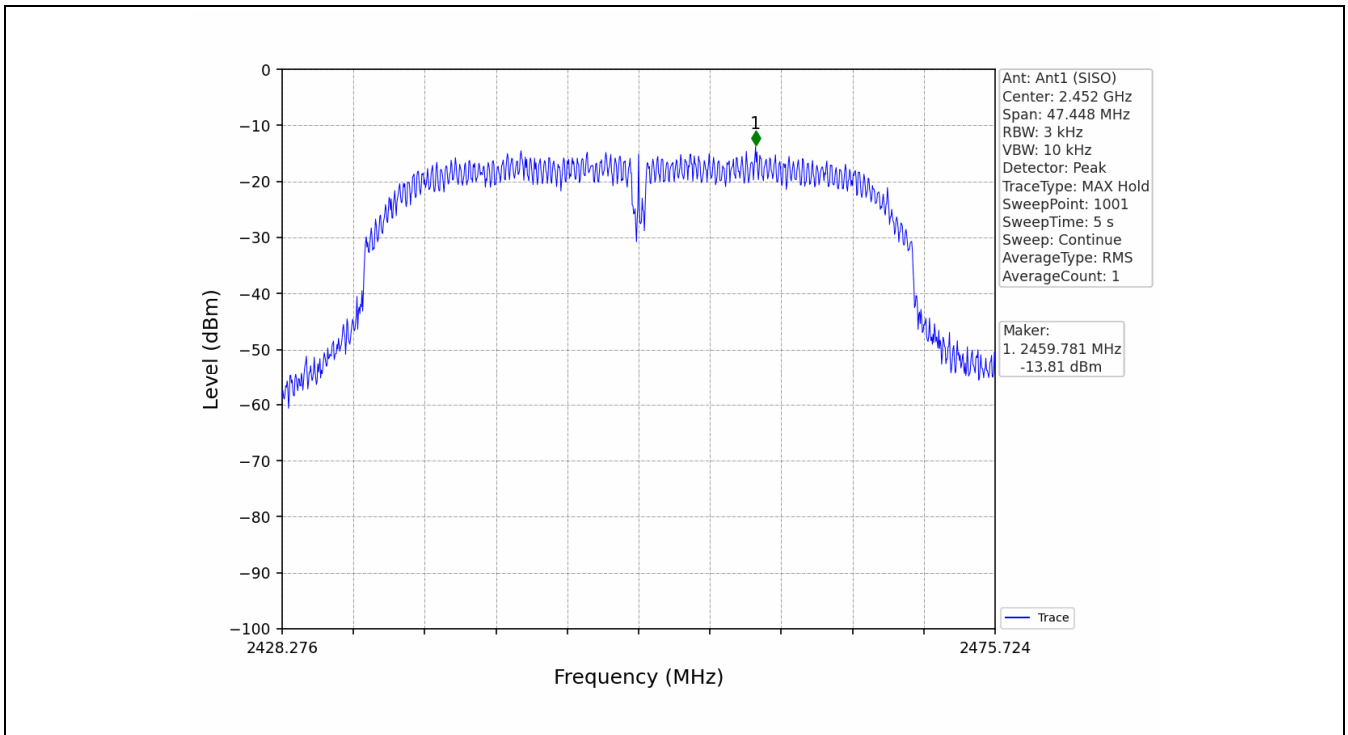
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | 9.00 |
| | | 2437 | 1 | 8.53 |
| | | 2462 | 1 | 8.71 |
| 802.11g | SISO | 2412 | 1 | 3.26 |
| | | 2437 | 1 | 2.79 |
| | | 2462 | 1 | 2.82 |
| 802.11n (HT20) | SISO | 2412 | 1 | 2.77 |
| | | 2437 | 1 | 2.34 |
| | | 2462 | 1 | 2.58 |
| 802.11n (HT40) | SISO | 2422 | 1 | -0.51 |
| | | 2437 | 1 | -1.08 |
| | | 2452 | 1 | -0.89 |

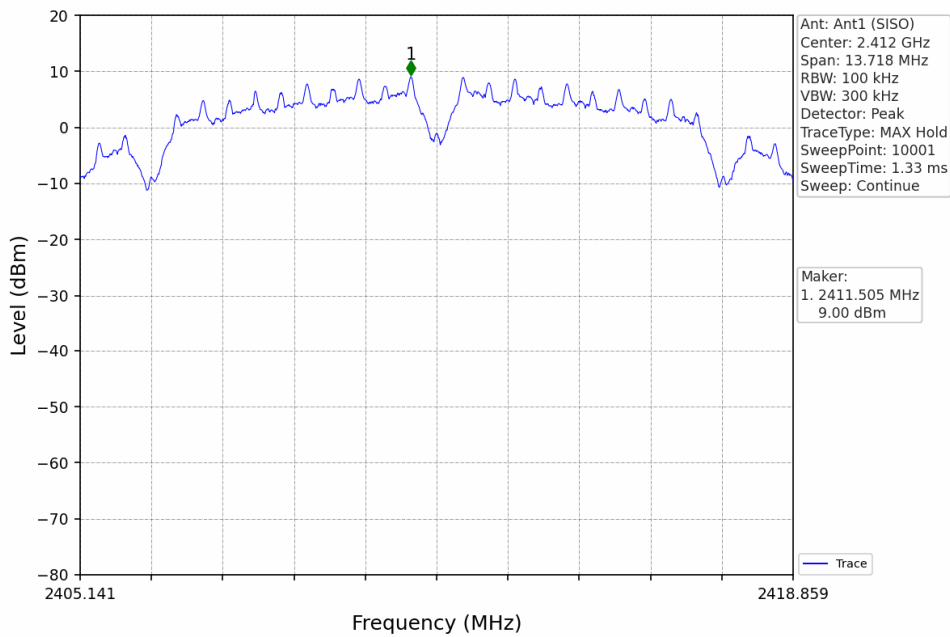
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

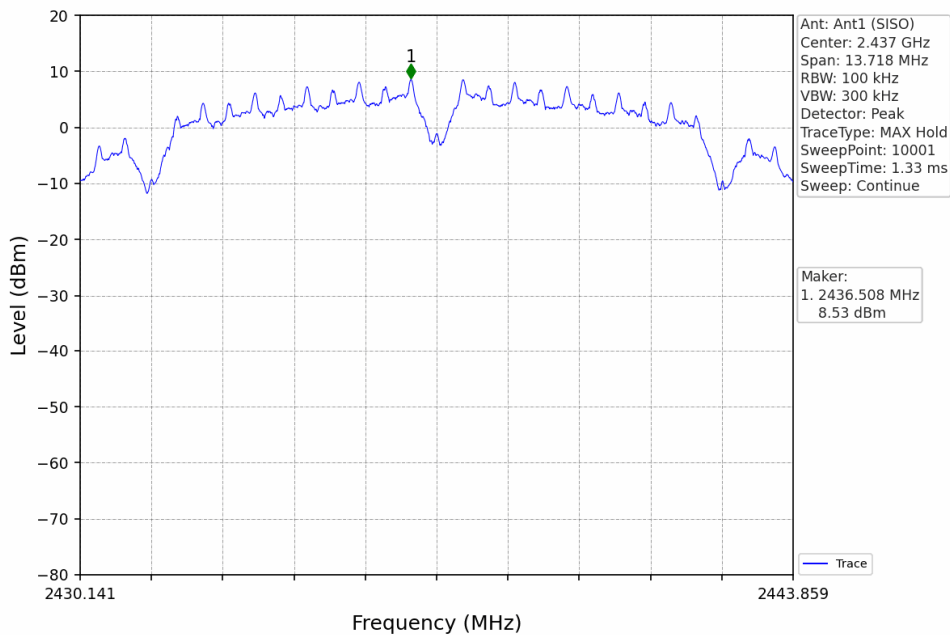


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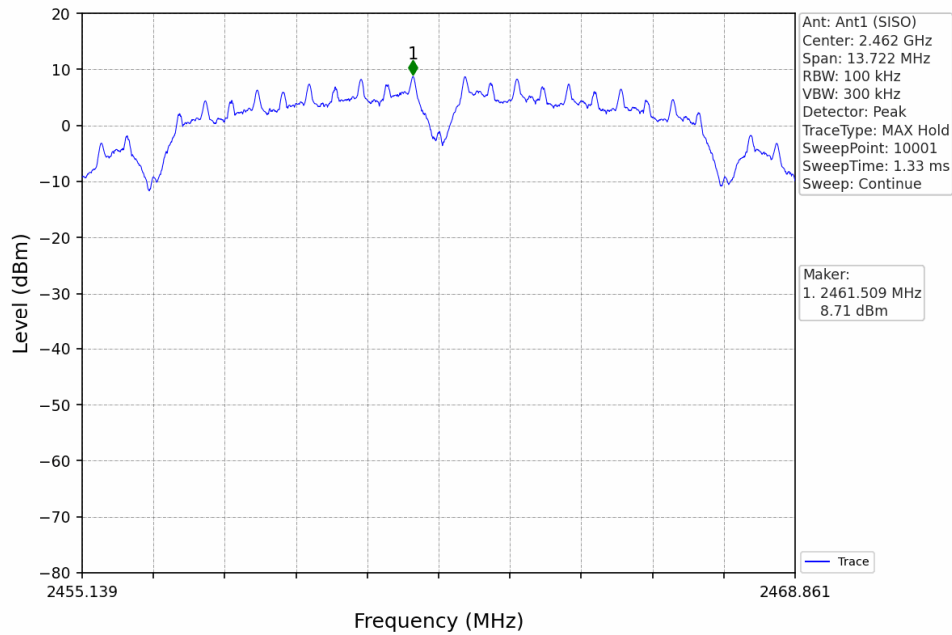
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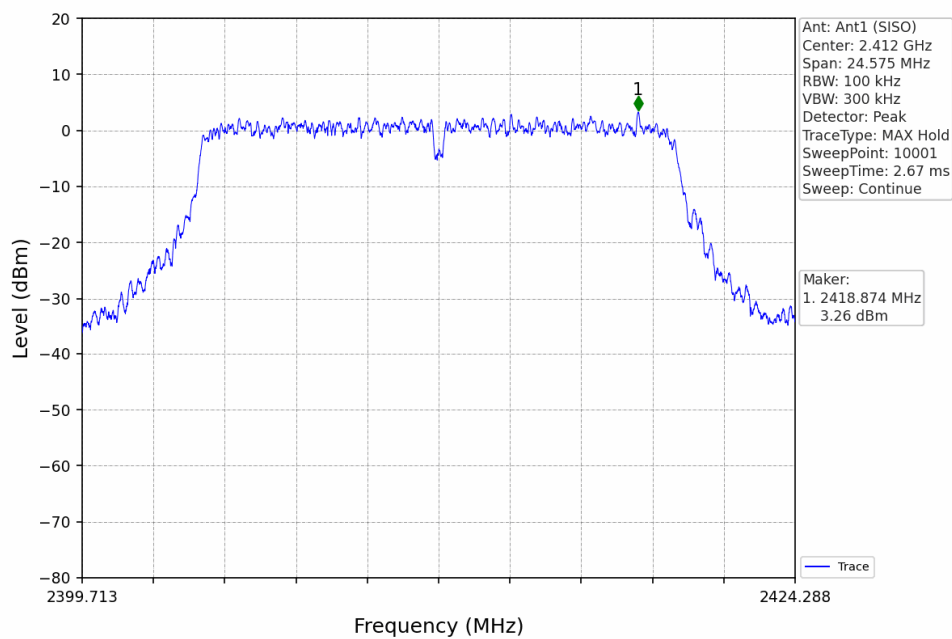
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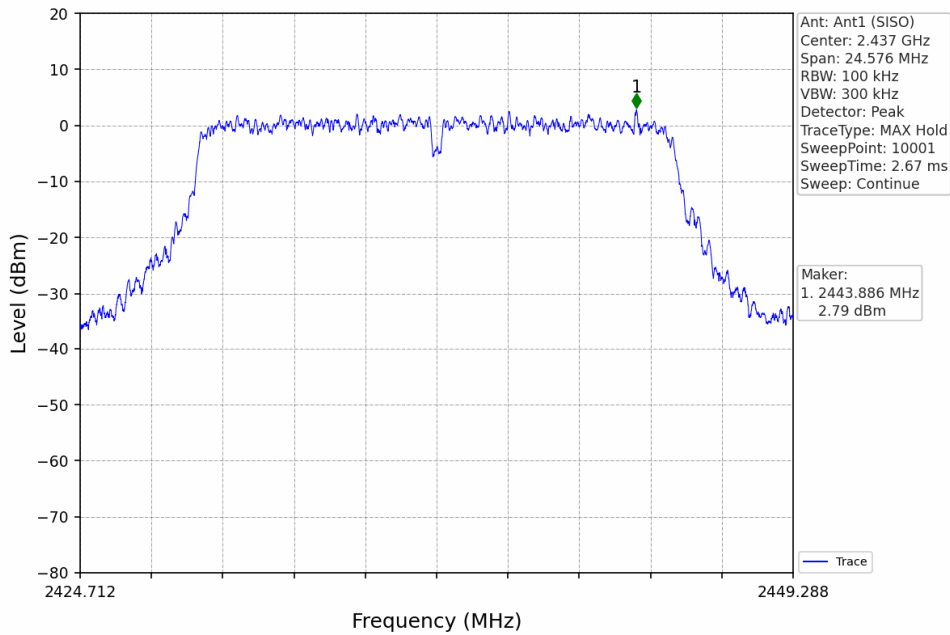


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

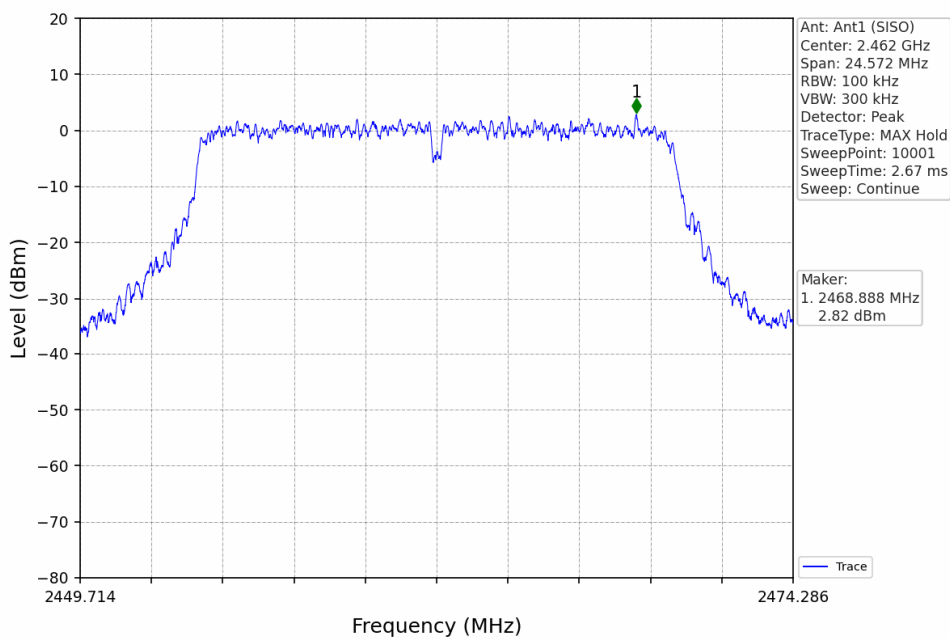


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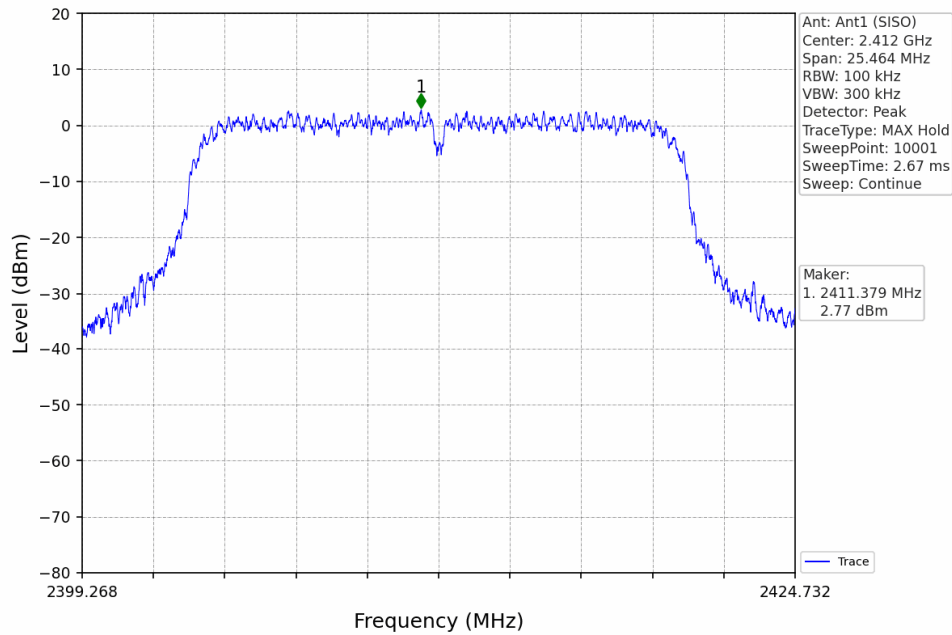
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



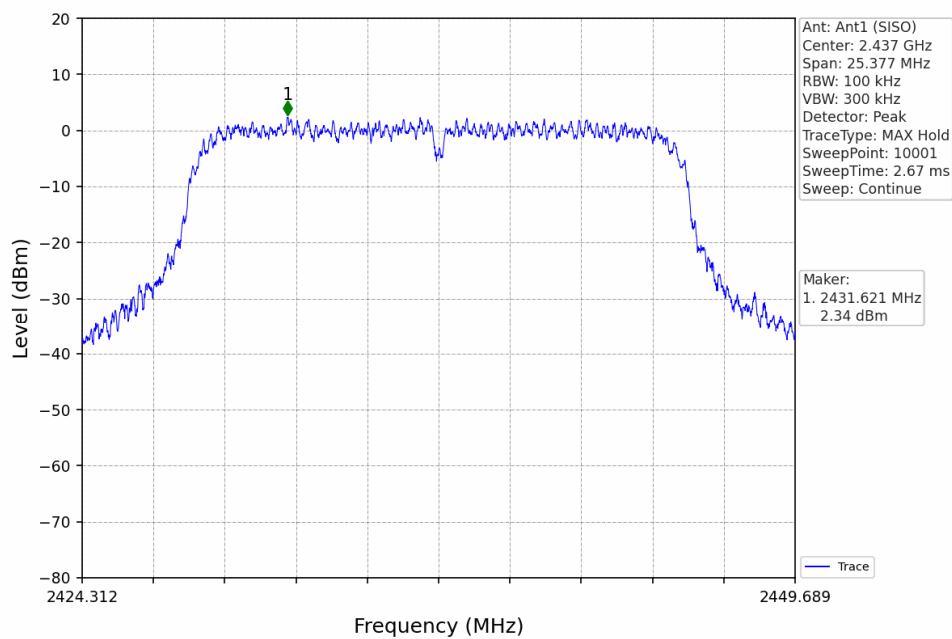
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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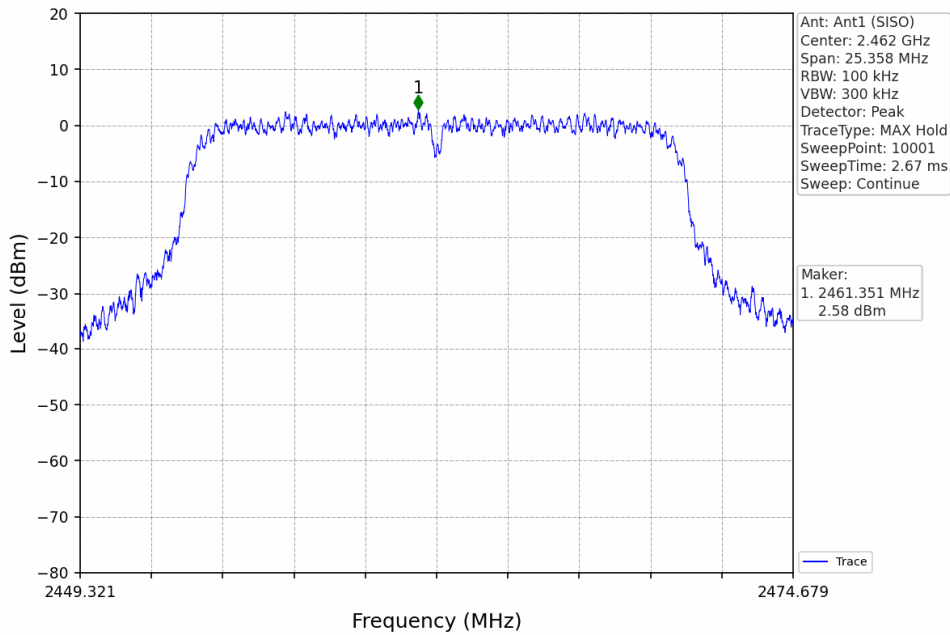
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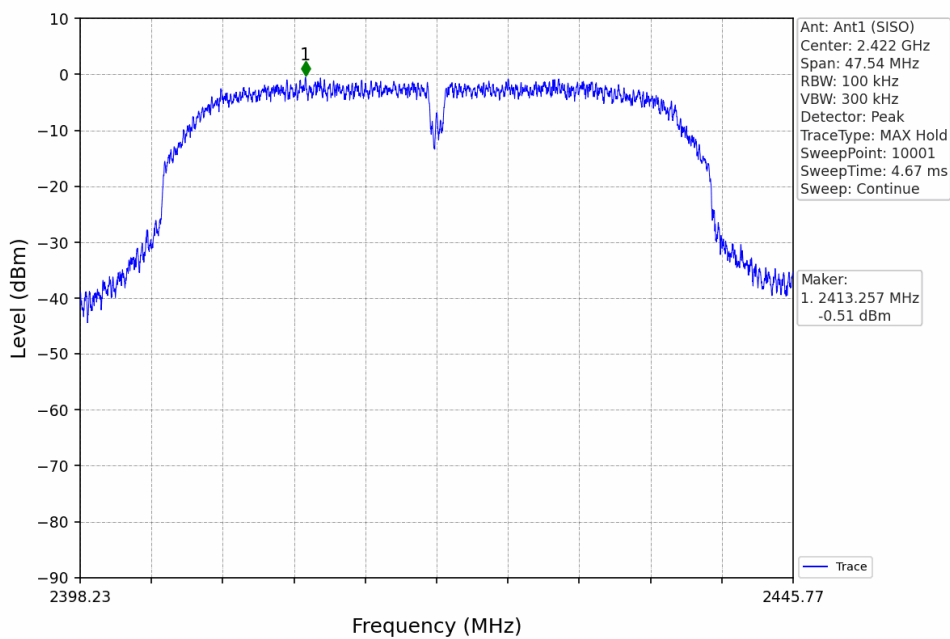
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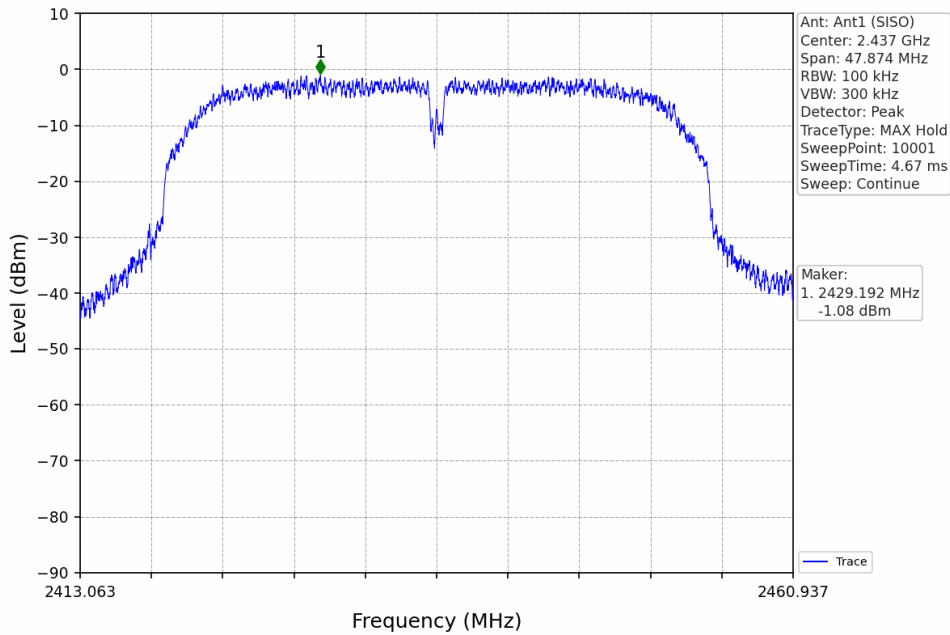
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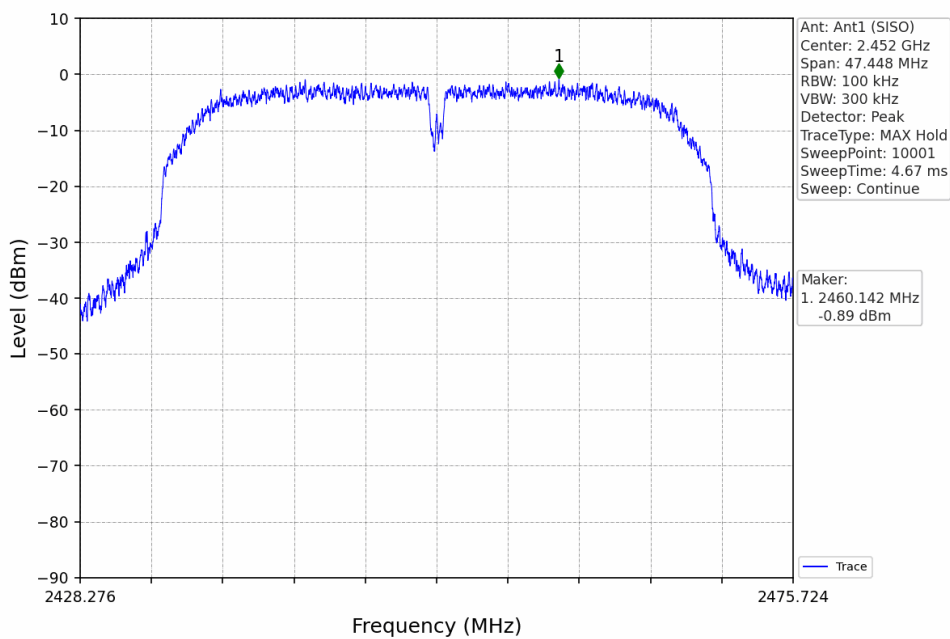
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5.2 CSE

5.2.1 Test Result



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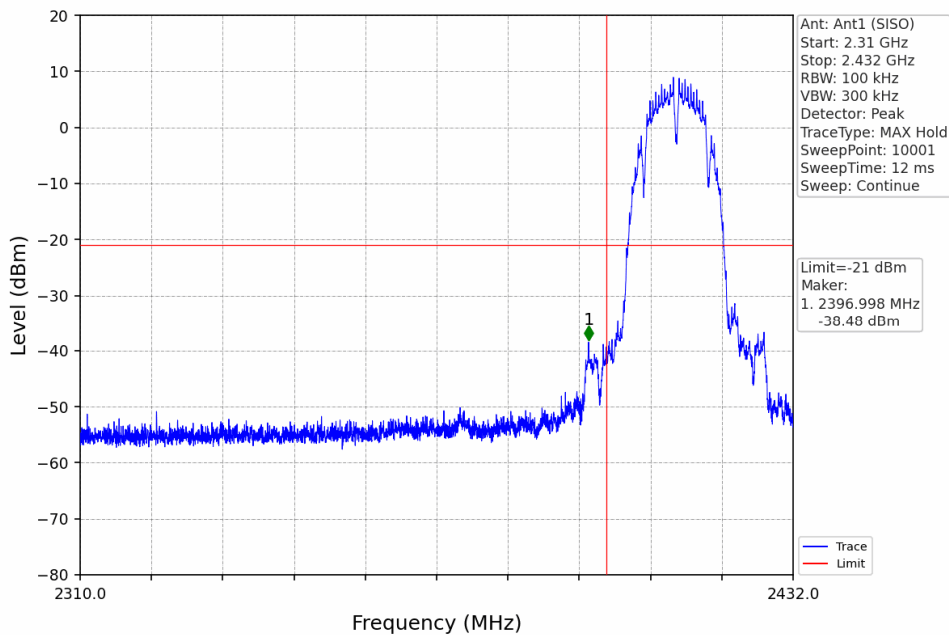
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| Mode | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | 9.00 | -21.00 | Pass |
| | | 2437 | 1 | 9.00 | -21.00 | Pass |
| | | 2462 | 1 | 9.00 | -21.00 | Pass |
| 802.11g | SISO | 2412 | 1 | 3.26 | -26.74 | Pass |
| | | 2437 | 1 | 3.26 | -26.74 | Pass |
| | | 2462 | 1 | 3.26 | -26.74 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 2.77 | -27.23 | Pass |
| | | 2437 | 1 | 2.77 | -27.23 | Pass |
| | | 2462 | 1 | 2.77 | -27.23 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | -0.51 | -30.51 | Pass |
| | | 2437 | 1 | -0.51 | -30.51 | Pass |
| | | 2452 | 1 | -0.51 | -30.51 | Pass |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

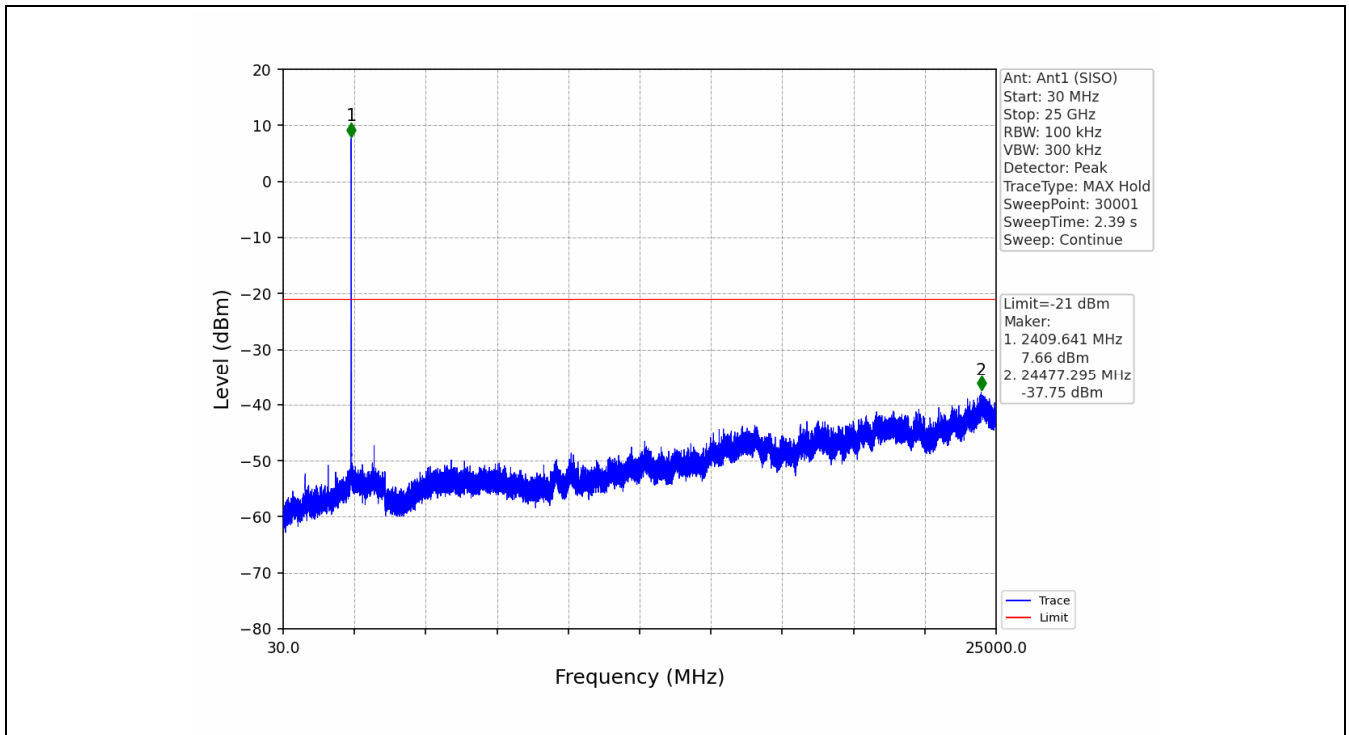
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



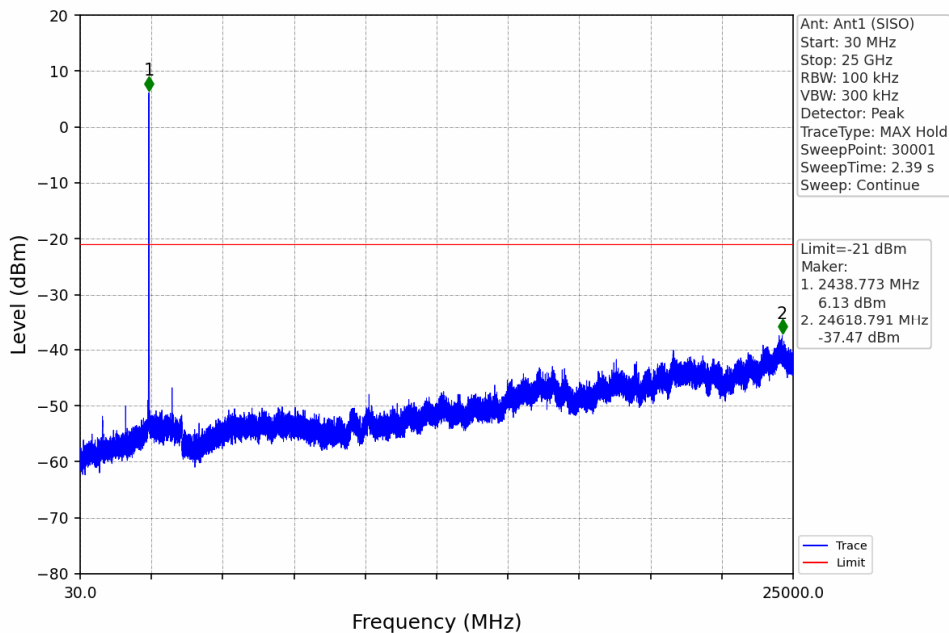
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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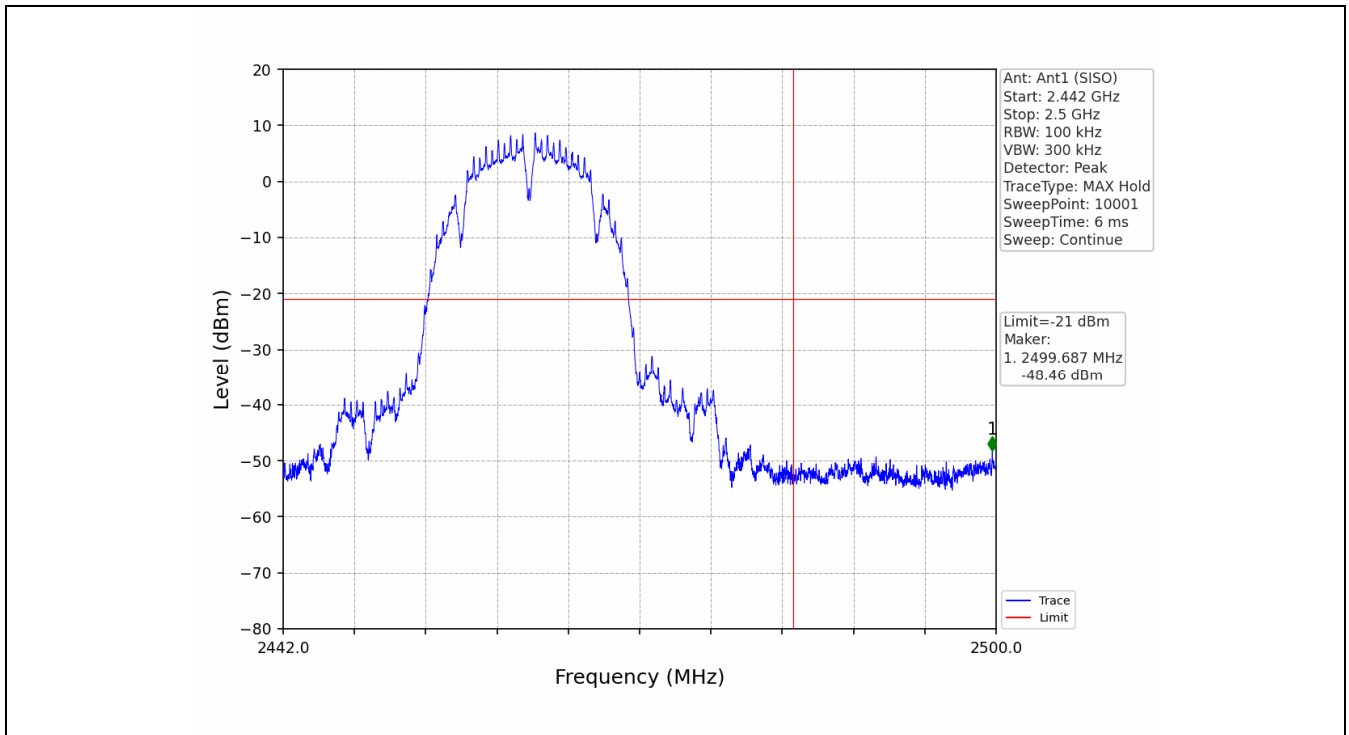
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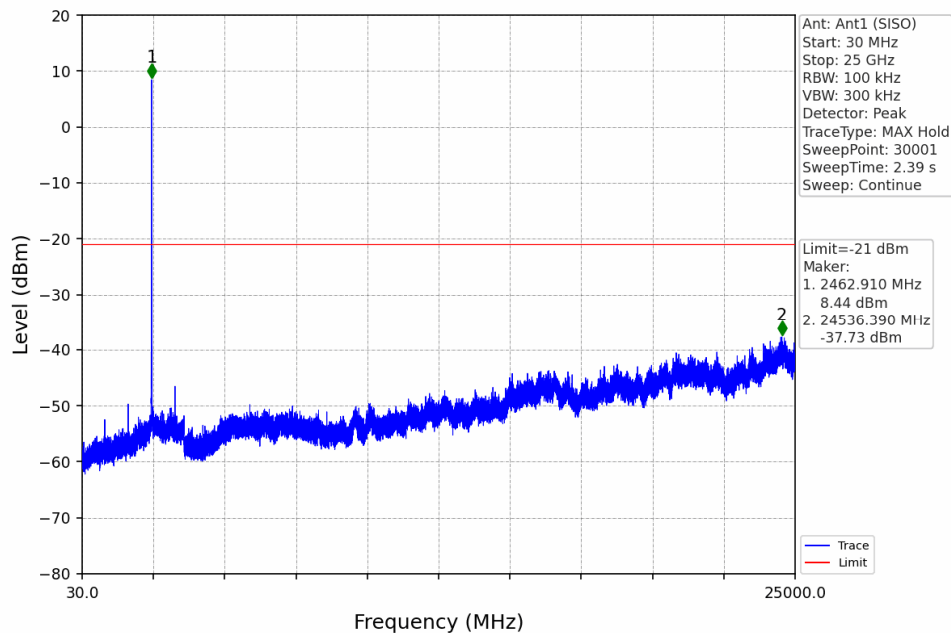
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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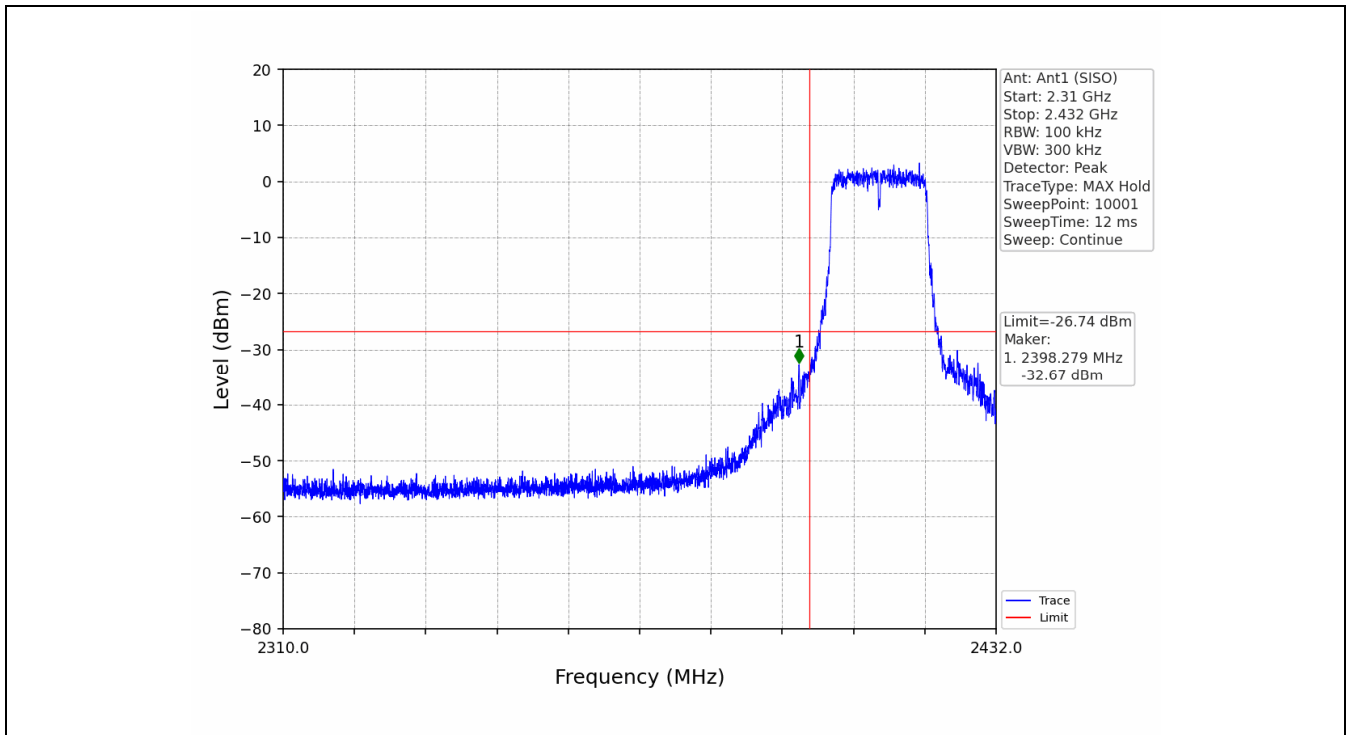
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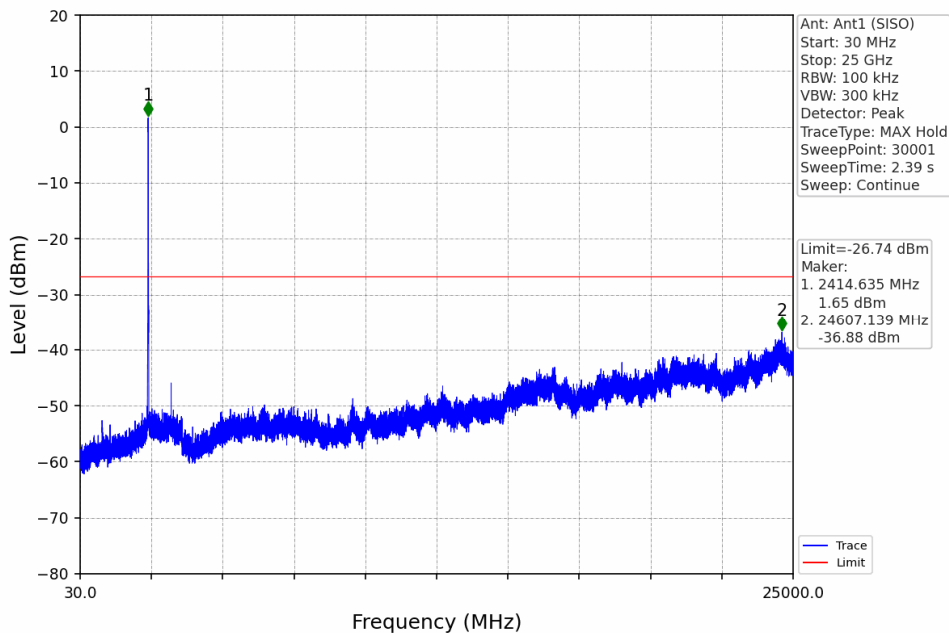
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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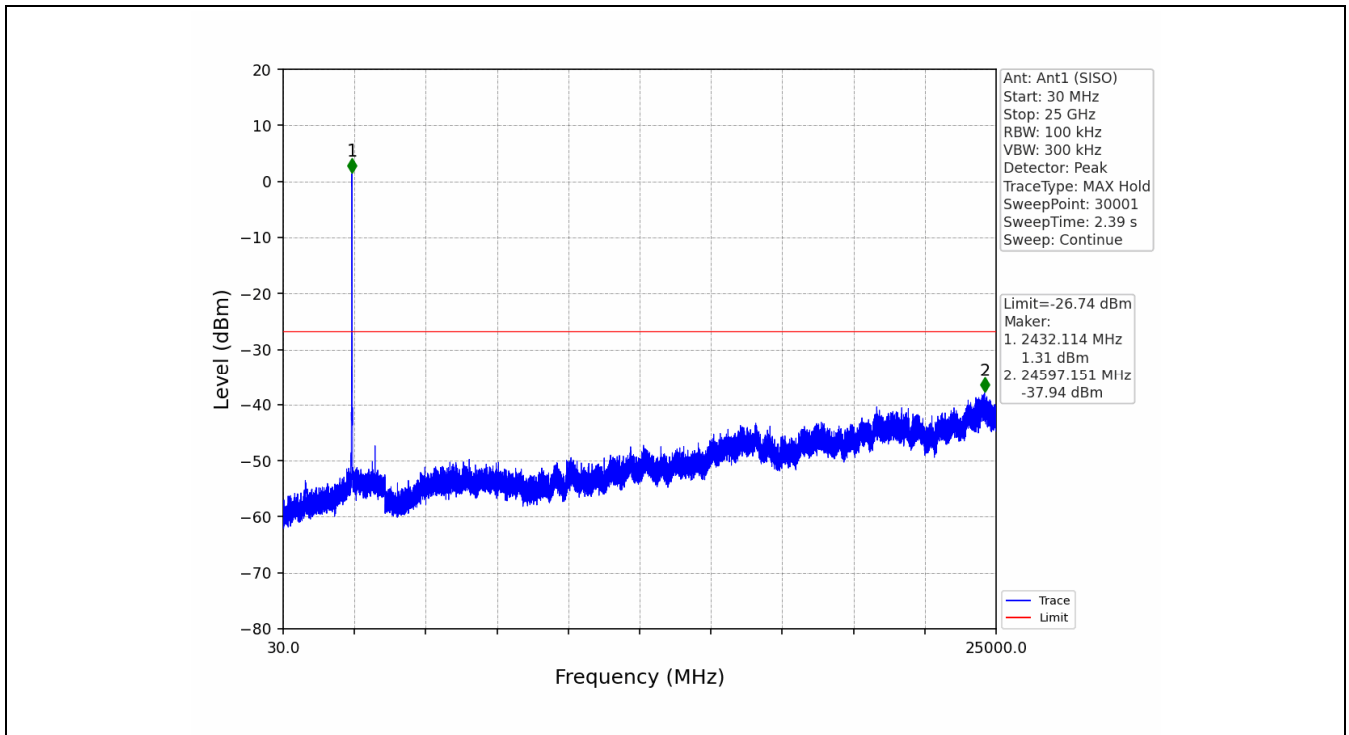
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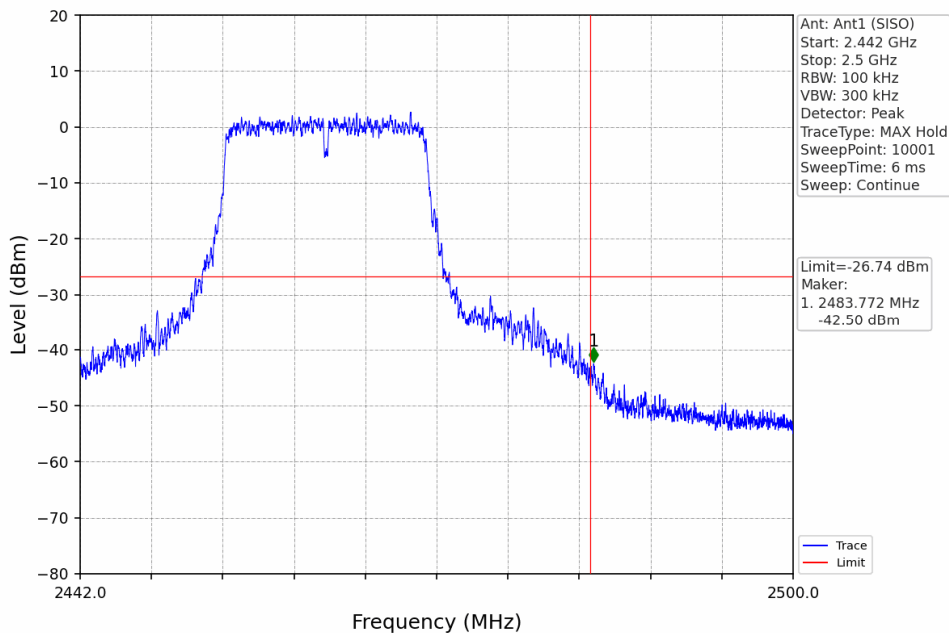
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

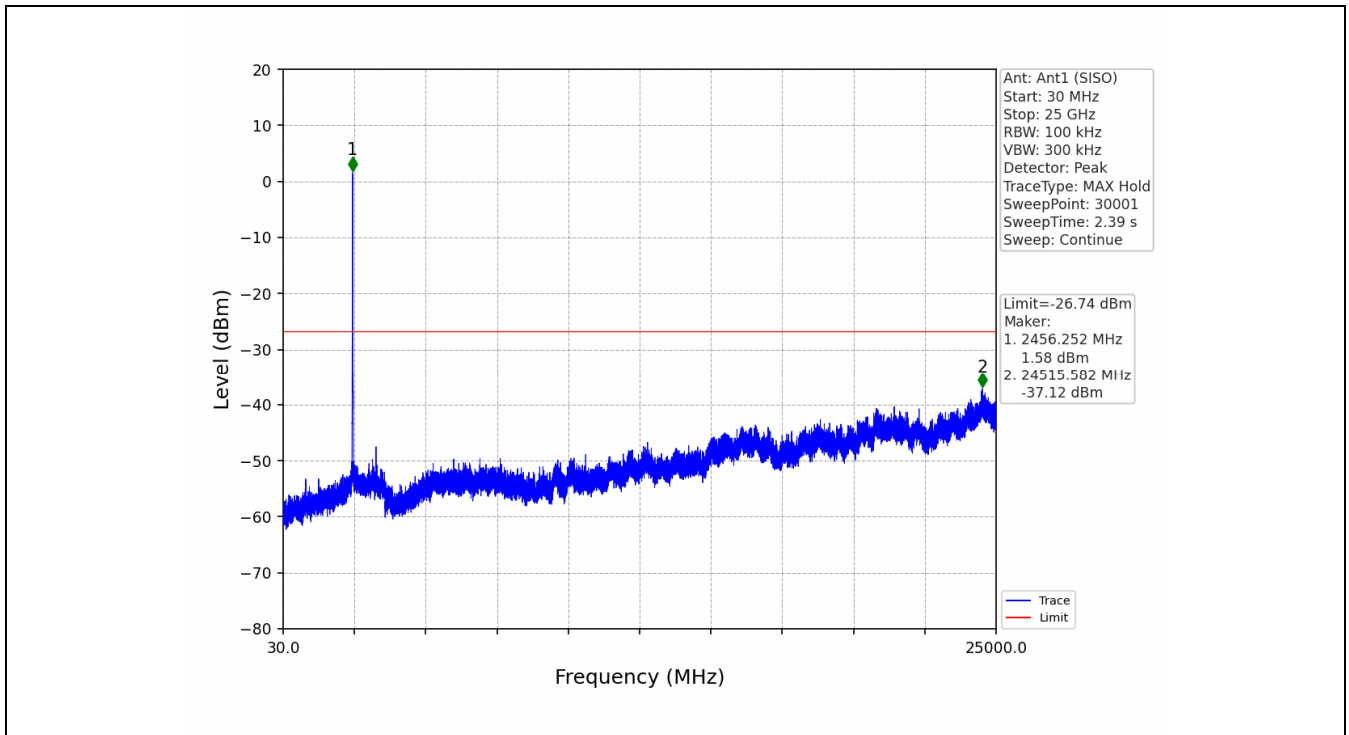


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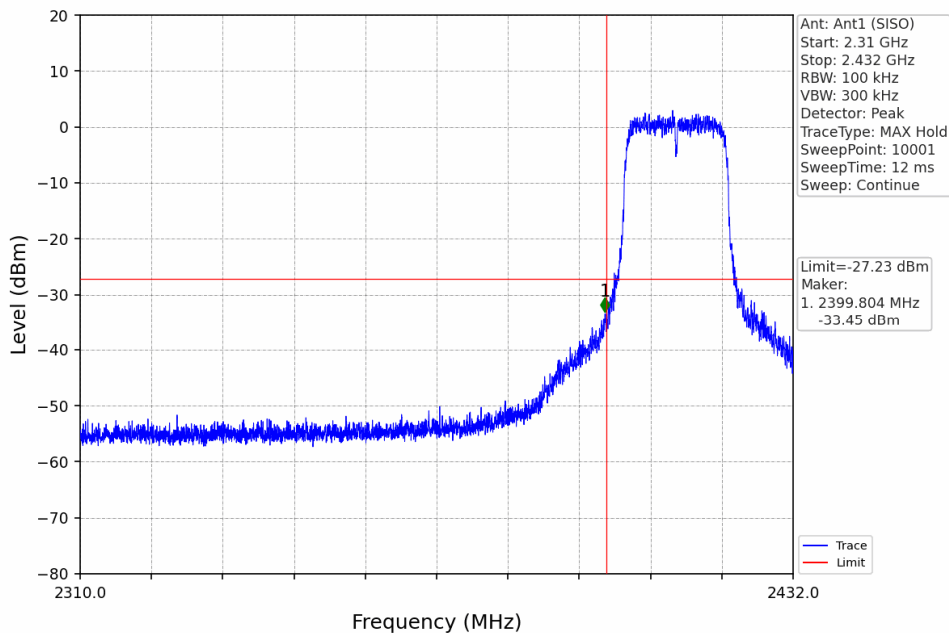


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

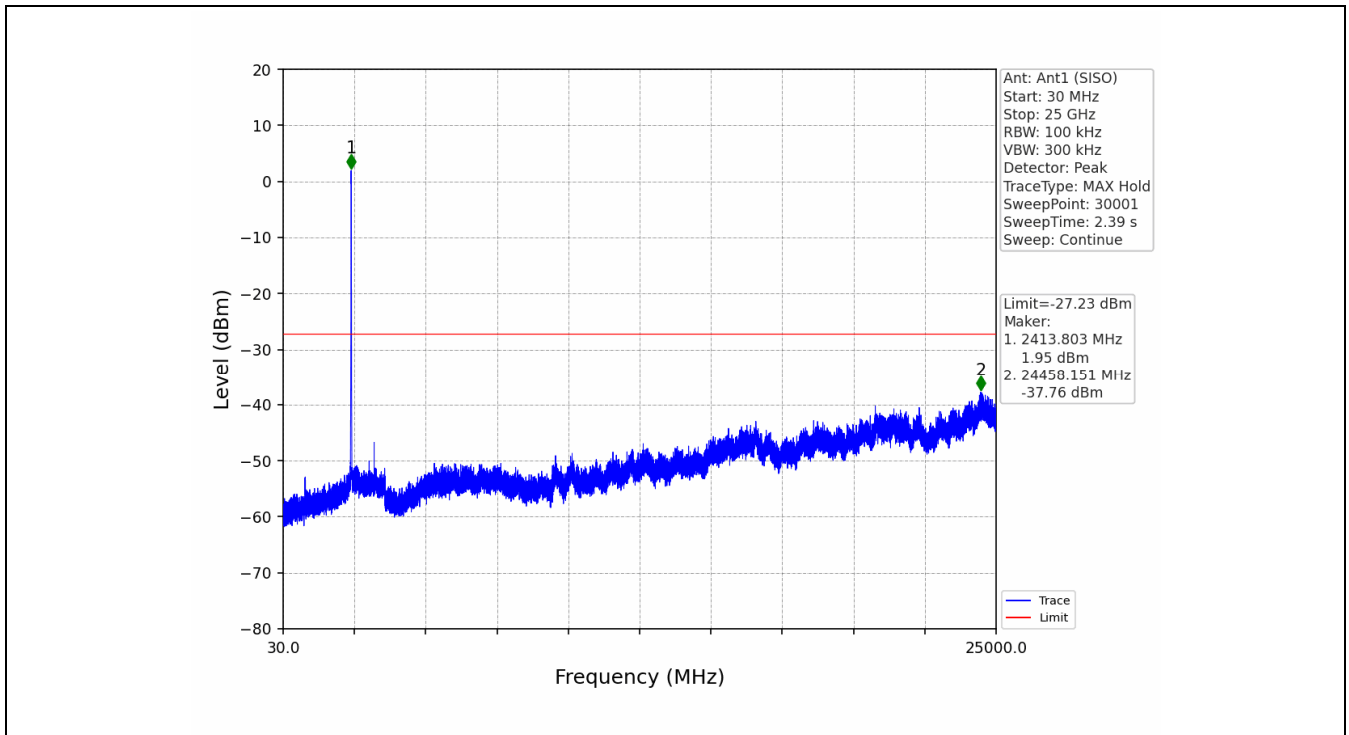


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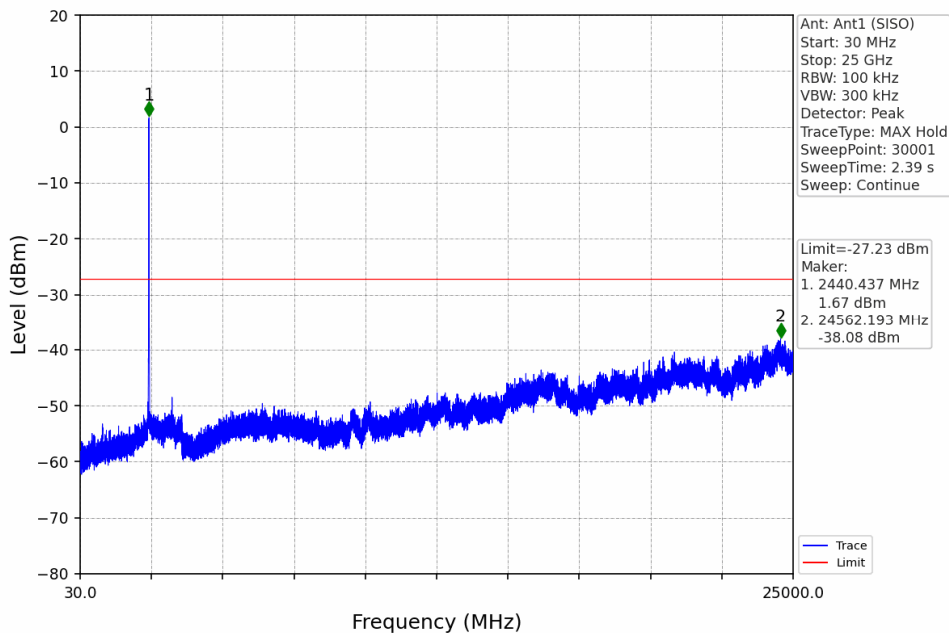


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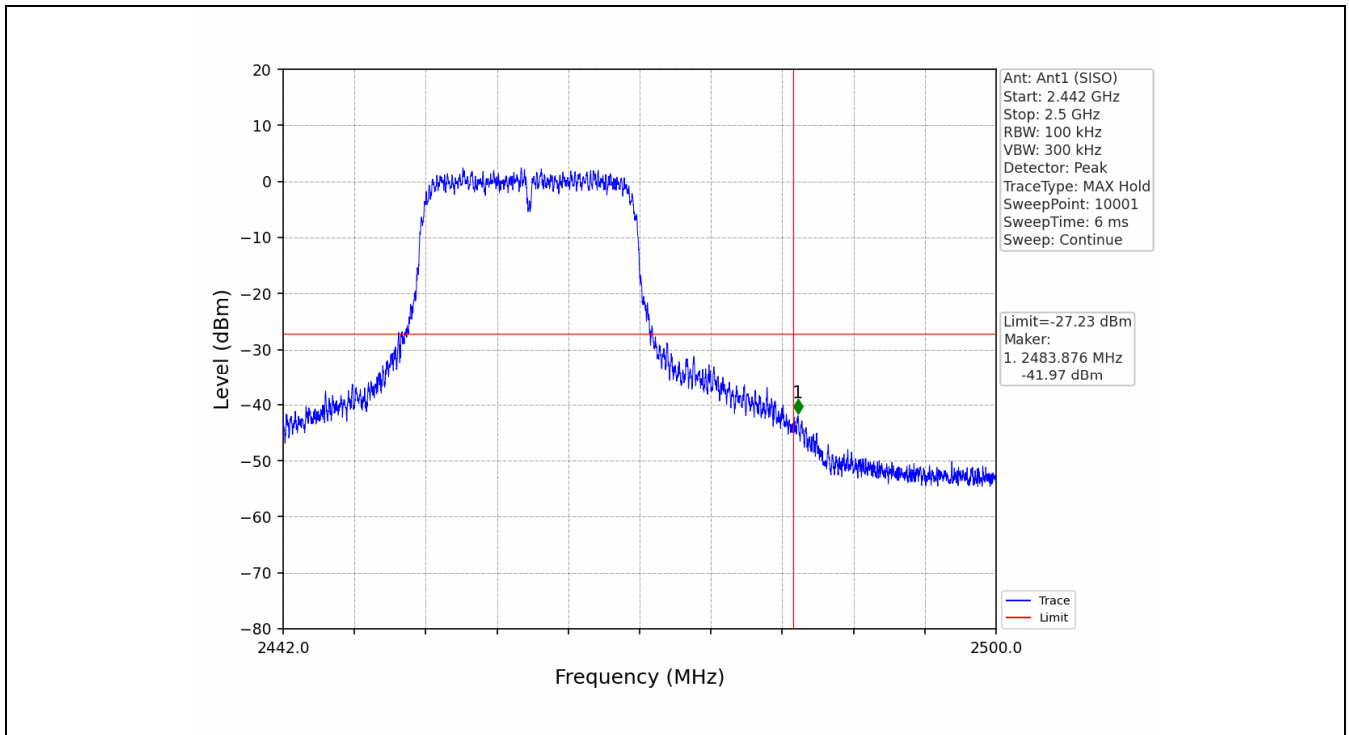
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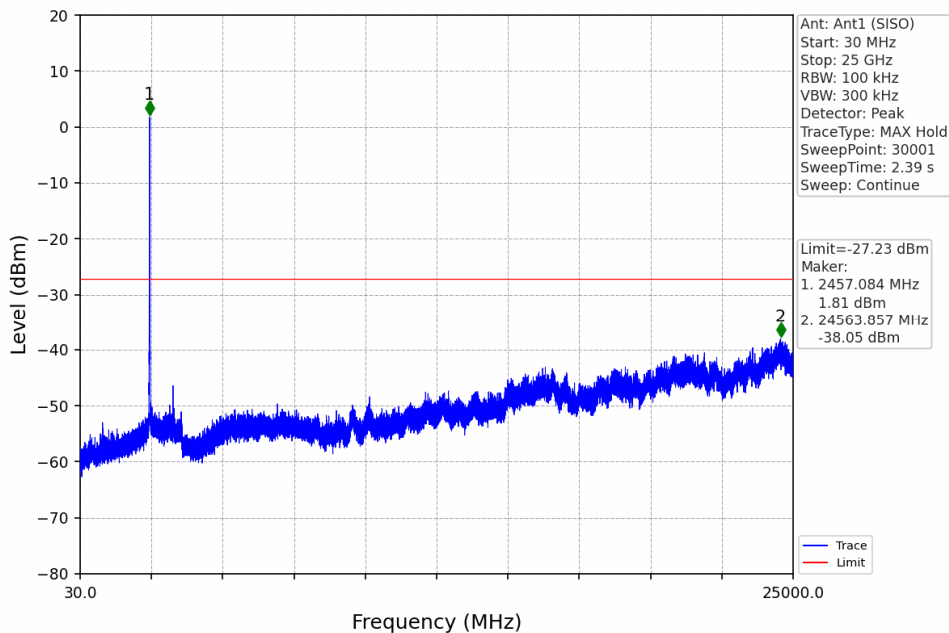
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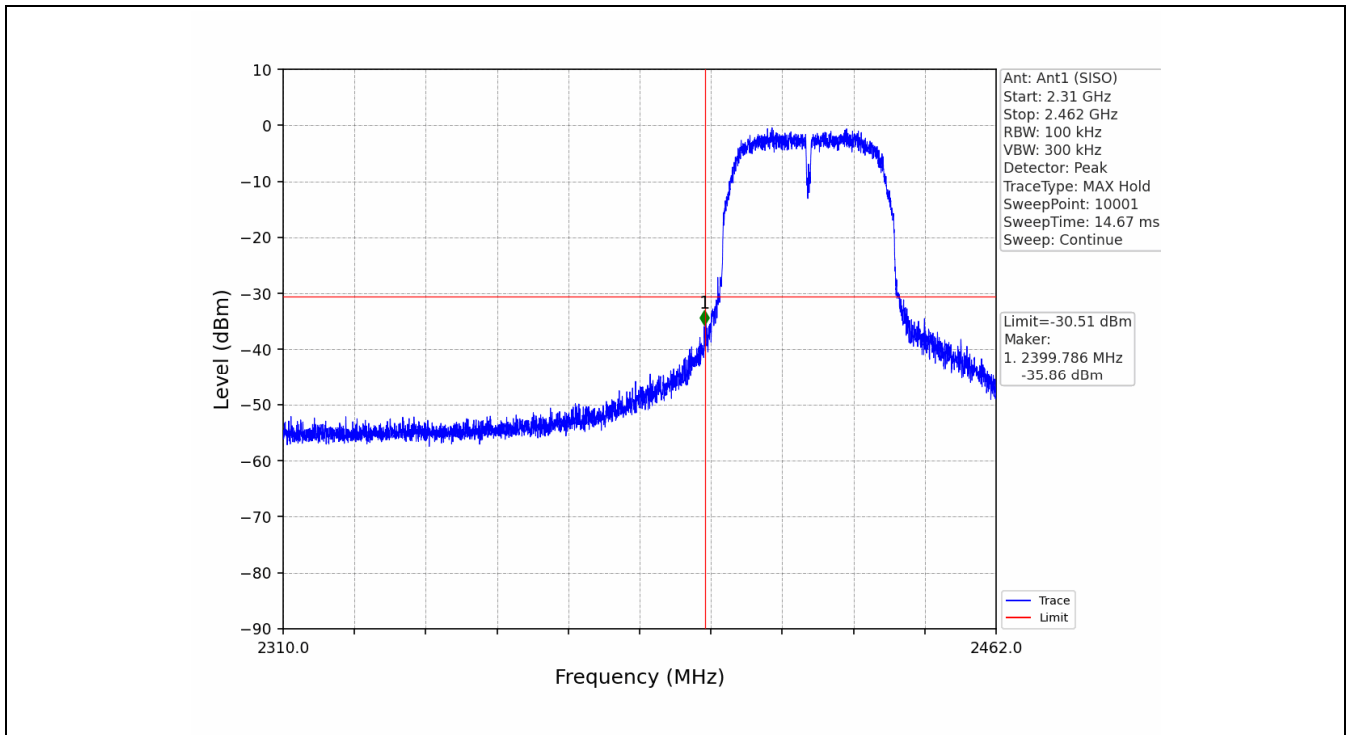
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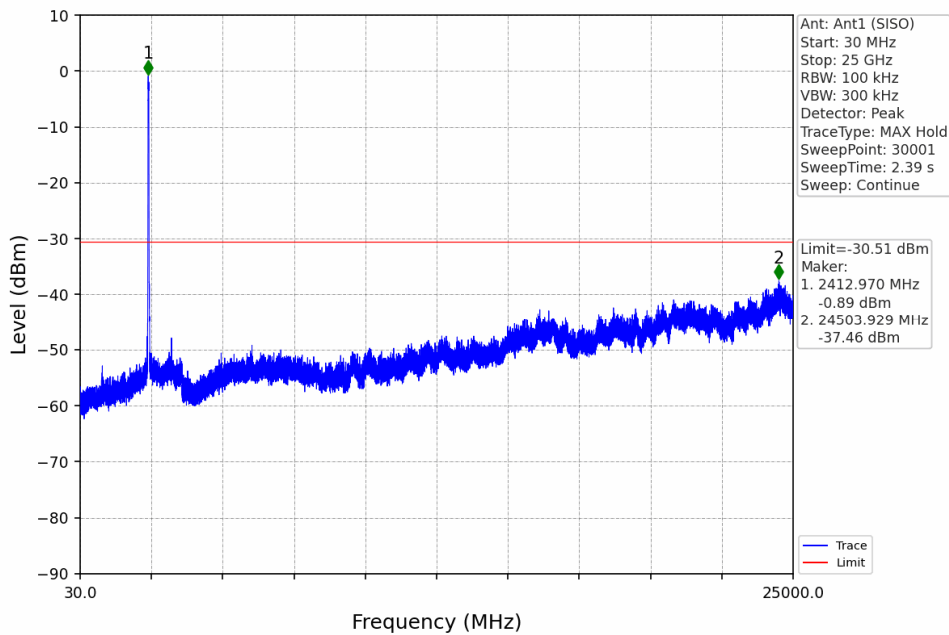
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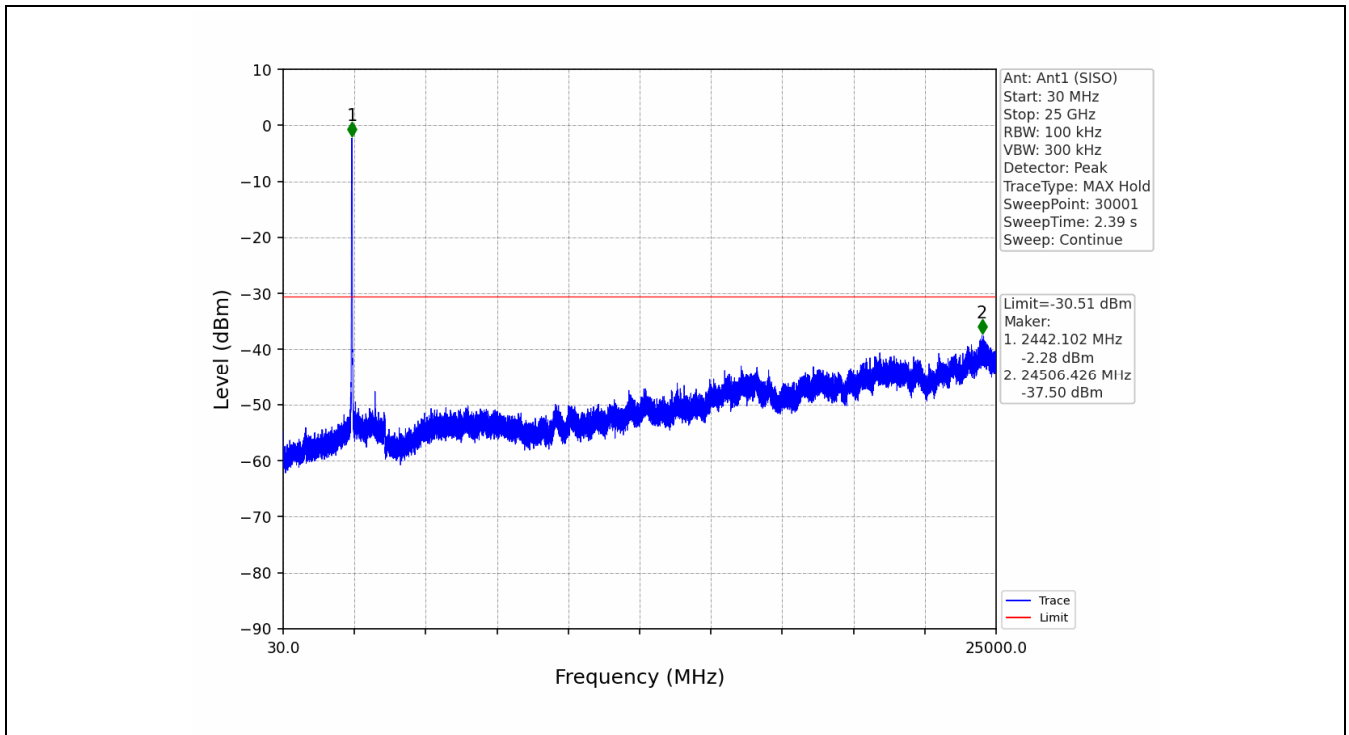
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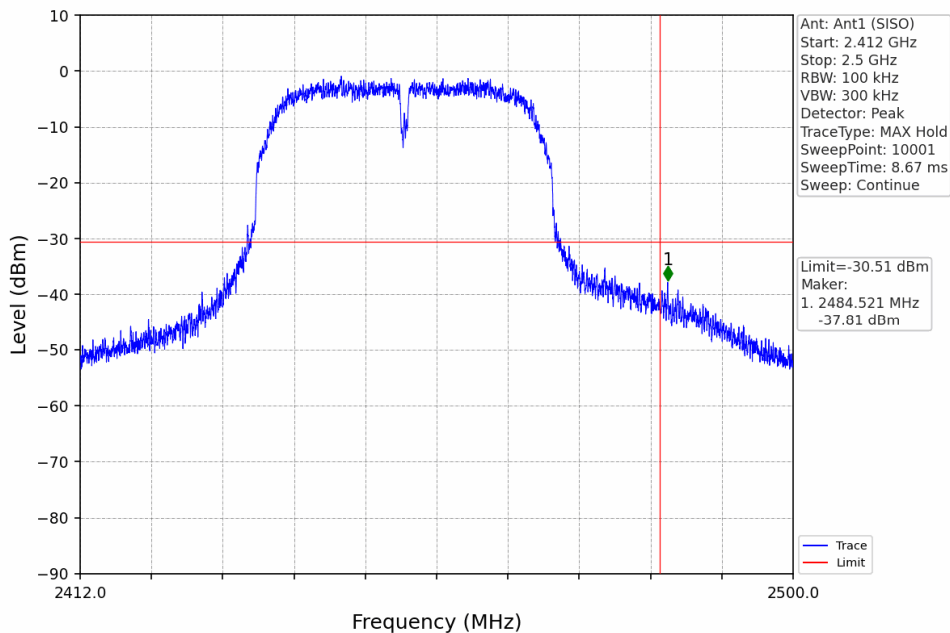
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

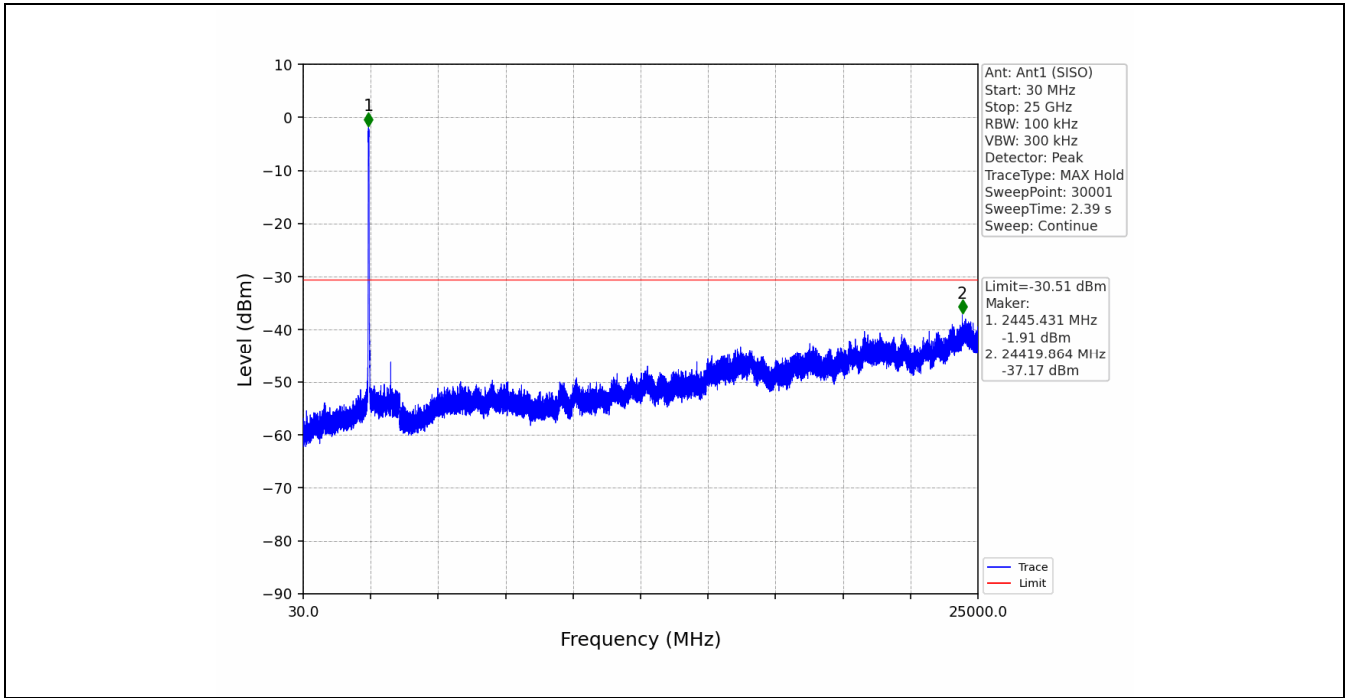


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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