

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 (%) |
| 802.11a | SISO | 5180 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| | | 5200 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| | | 5240 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| | | 5260 | 1.395 | 1.465 | 95.22 | 0.21 | 0.03 |
| | | 5300 | 1.395 | 1.463 | 95.35 | 0.21 | 0.03 |
| | | 5320 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| | | 5745 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| | | 5785 | 1.395 | 1.464 | 95.29 | 0.21 | 0.03 |
| 802.11n (HT20) | MIMO | 5180 | 1.303 | 1.371 | 95.04 | 0.22 | 0.00 |
| | | 5200 | 1.303 | 1.371 | 95.04 | 0.22 | 0.00 |
| | | 5240 | 1.303 | 1.371 | 95.04 | 0.22 | 0.00 |
| | | 5260 | 1.303 | 1.372 | 94.97 | 0.22 | 0.00 |
| | | 5300 | 1.303 | 1.372 | 94.97 | 0.22 | 0.03 |
| | | 5320 | 1.303 | 1.372 | 94.97 | 0.22 | 0.03 |
| | | 5745 | 1.303 | 1.372 | 94.97 | 0.22 | 0.03 |
| | | 5785 | 1.303 | 1.372 | 94.97 | 0.22 | 0.03 |
| 802.11n (HT40) | MIMO | 5190 | 0.650 | 0.719 | 90.40 | 0.44 | 0.03 |
| | | 5230 | 0.650 | 0.719 | 90.40 | 0.44 | 0.03 |
| | | 5270 | 0.650 | 0.719 | 90.40 | 0.44 | 0.03 |
| | | 5310 | 0.650 | 0.719 | 90.40 | 0.44 | 0.03 |
| | | 5755 | 0.651 | 0.720 | 90.42 | 0.44 | 0.06 |
| | | 5795 | 0.650 | 0.719 | 90.40 | 0.44 | 0.03 |
| 802.11ac (VHT20) | MIMO | 5180 | 0.683 | 0.752 | 90.82 | 0.42 | 0.04 |
| | | 5200 | 0.683 | 0.752 | 90.82 | 0.42 | 0.03 |
| | | 5240 | 0.683 | 0.752 | 90.82 | 0.42 | 0.07 |
| | | 5260 | 0.683 | 0.752 | 90.82 | 0.42 | 0.04 |



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| | | | | | | | |
|---------------------|------|------|-------|-------|-------|------|------|
| | | 5300 | 0.683 | 0.752 | 90.82 | 0.42 | 0.04 |
| | | 5320 | 0.683 | 0.752 | 90.82 | 0.42 | 0.04 |
| | | 5745 | 0.683 | 0.752 | 90.82 | 0.42 | 0.03 |
| | | 5785 | 0.683 | 0.752 | 90.82 | 0.42 | 0.04 |
| | | 5825 | 0.683 | 0.752 | 90.82 | 0.42 | 0.03 |
| 802.11ac (VHT40) | MIMO | 5190 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| | | 5230 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| | | 5270 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| | | 5310 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| | | 5755 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| | | 5795 | 0.354 | 0.423 | 83.69 | 0.77 | 0.03 |
| 802.11ac (VHT80) | MIMO | 5210 | 0.190 | 0.259 | 73.36 | 1.35 | 0.07 |
| | | 5290 | 0.190 | 0.258 | 73.64 | 1.33 | 0.08 |
| | | 5775 | 0.190 | 0.259 | 73.36 | 1.35 | 0.08 |

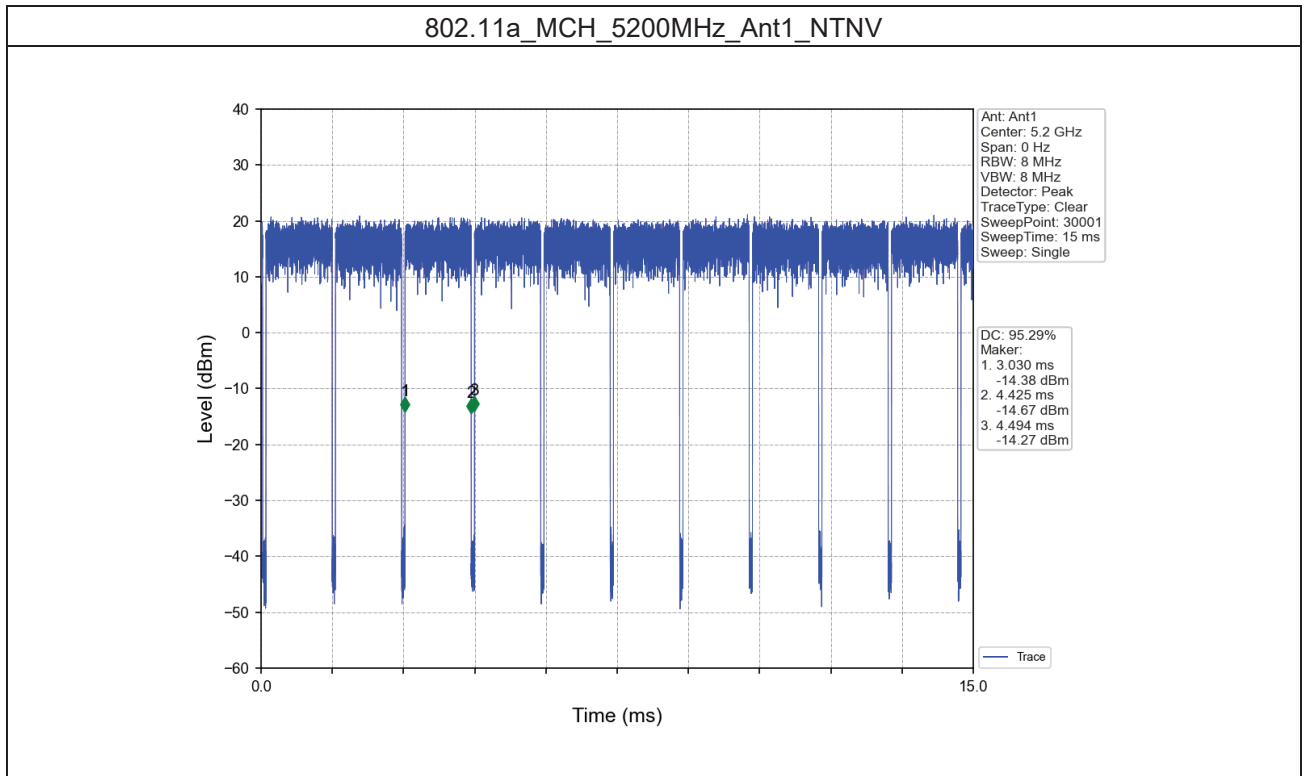
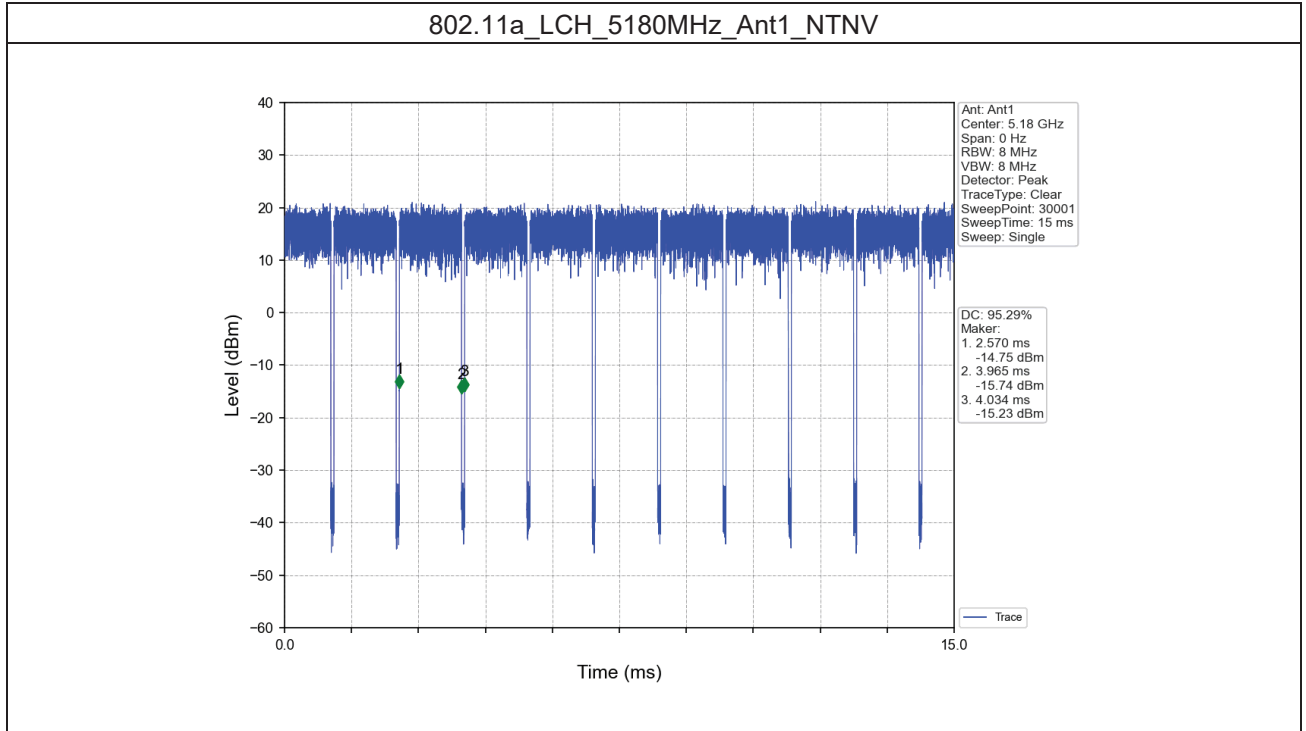


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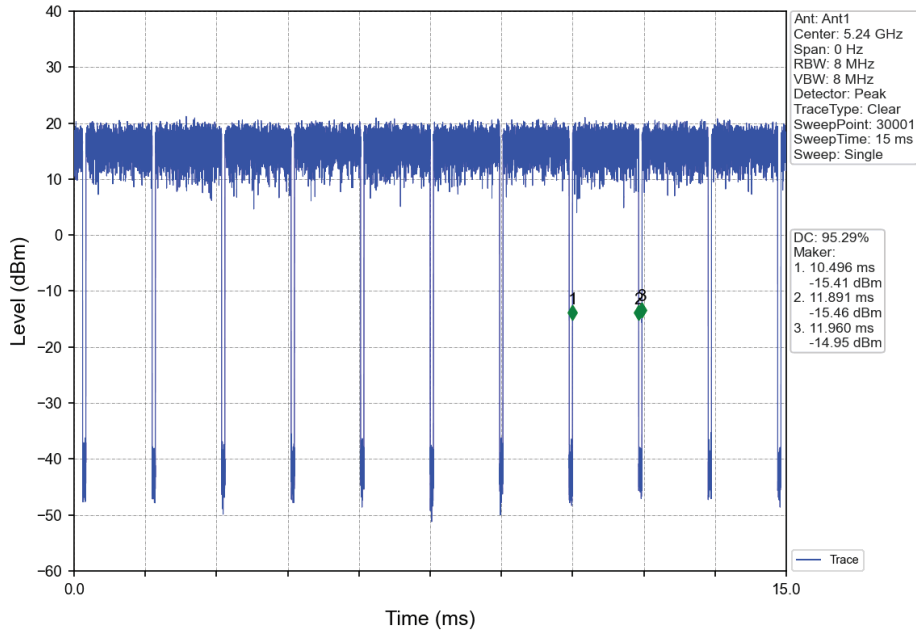
1.1.2 Test Graph



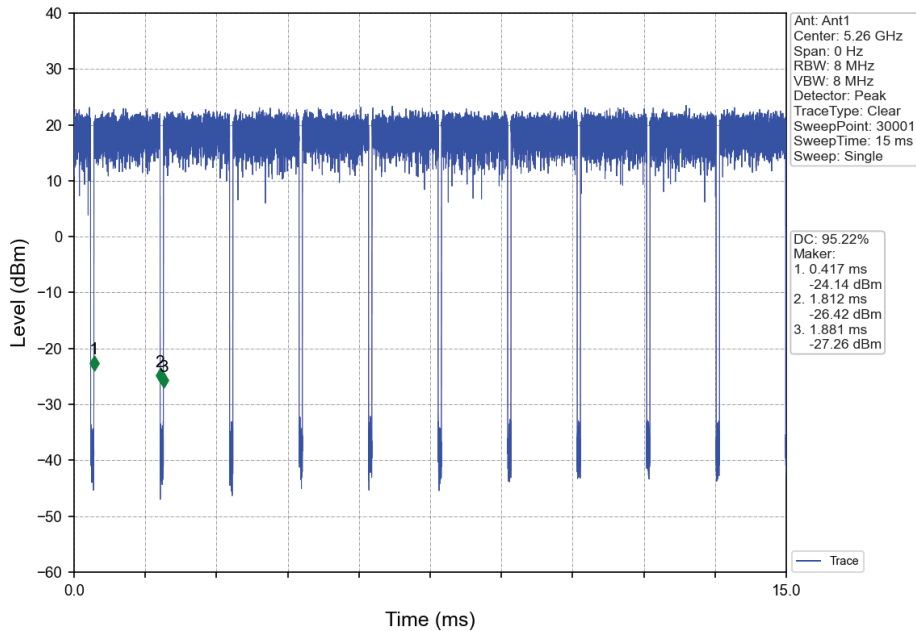
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802.11a_HCH_5240MHz_Ant1_NTNV



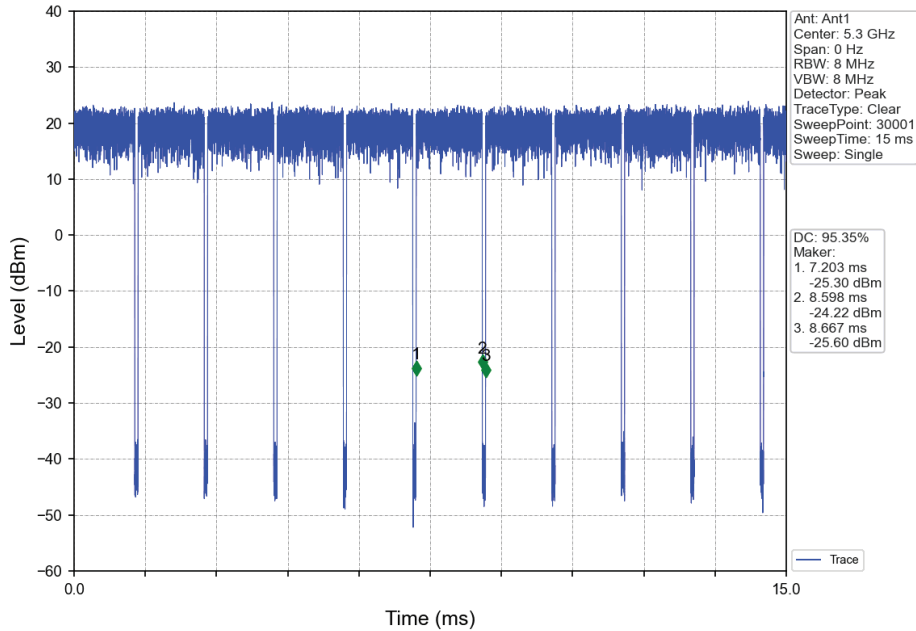
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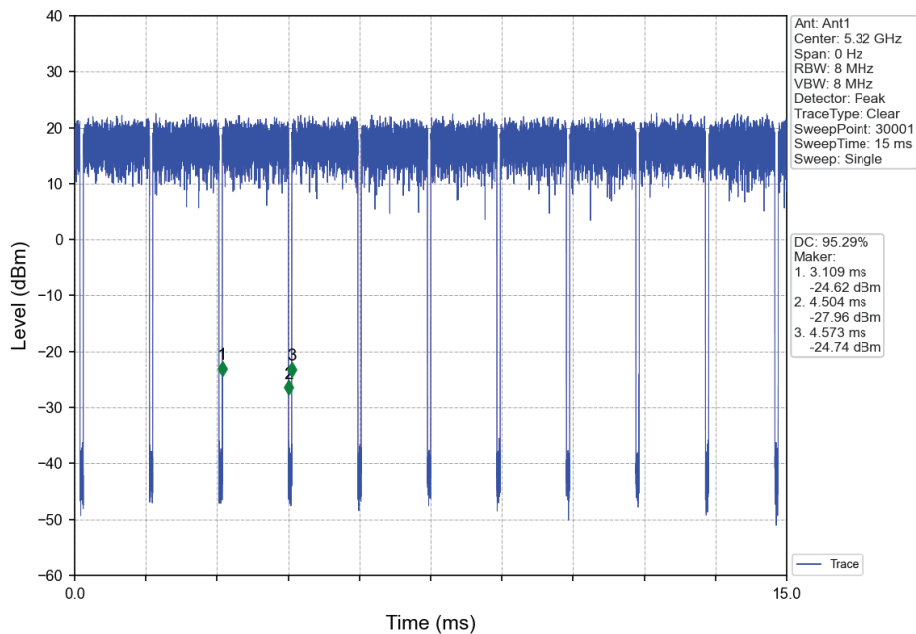
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802.11a_MCH_5300MHz_Ant1_NTNV



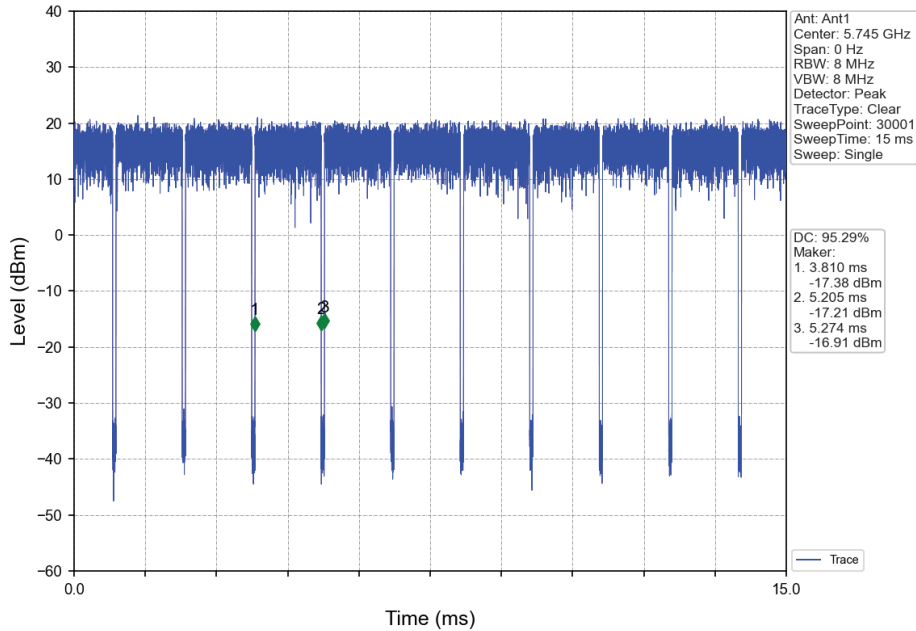
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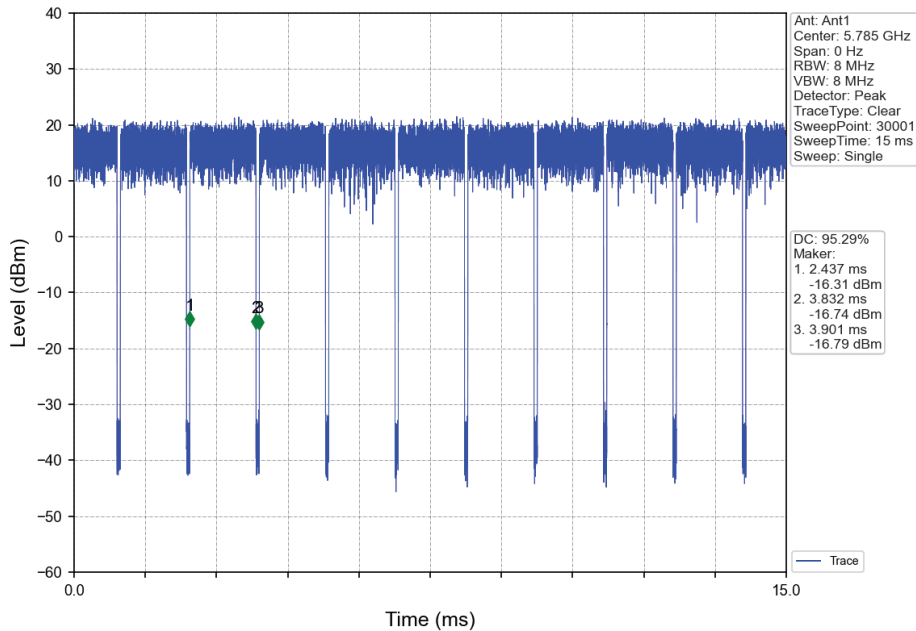
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802.11a_LCH_5745MHz_Ant1_NTNV



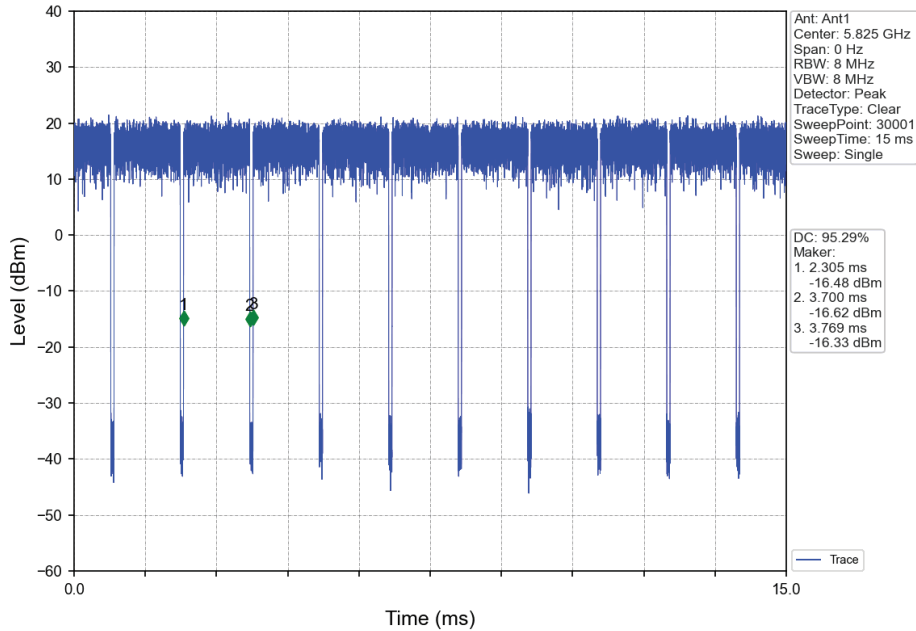
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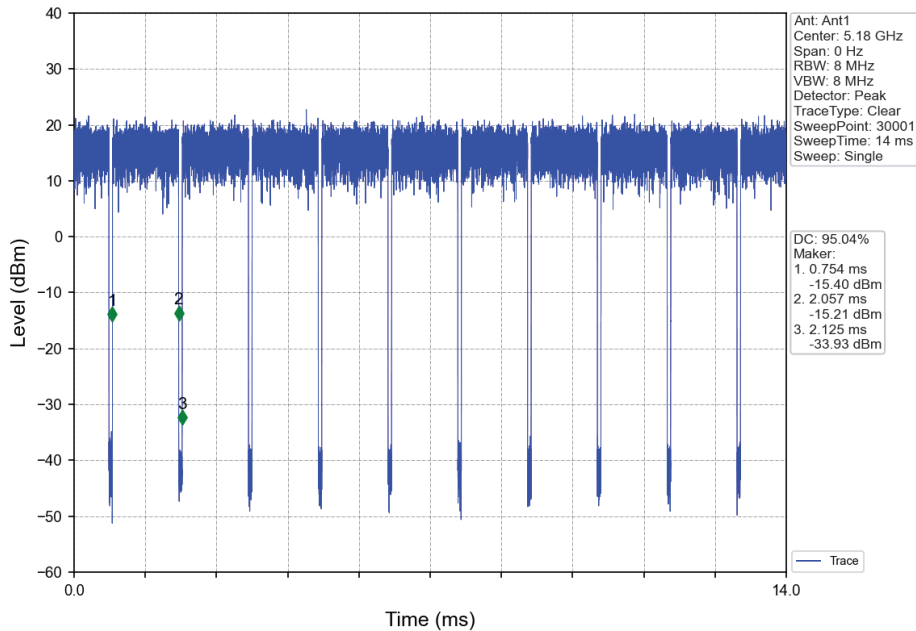
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802.11a_HCH_5825MHz_Ant1_NTNV



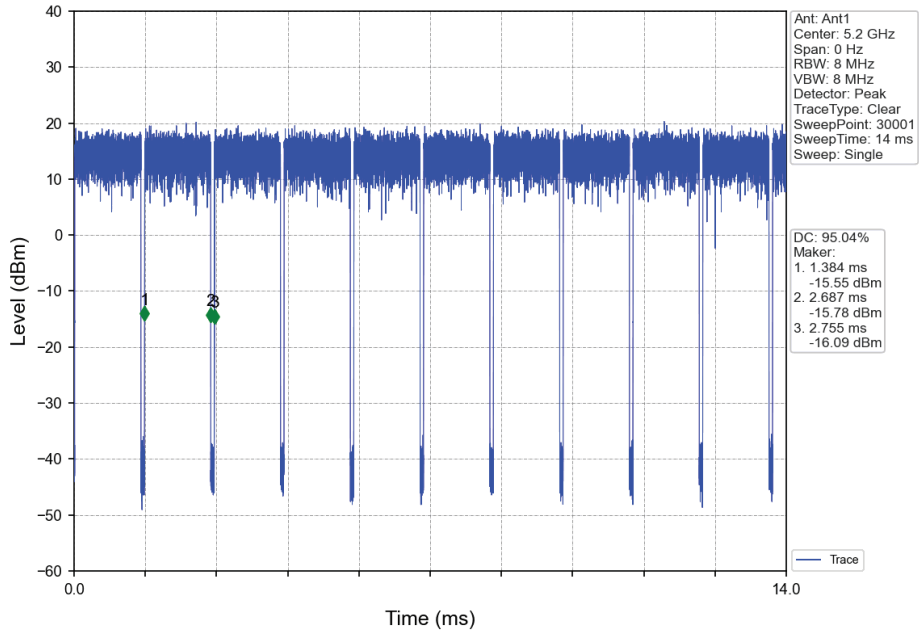
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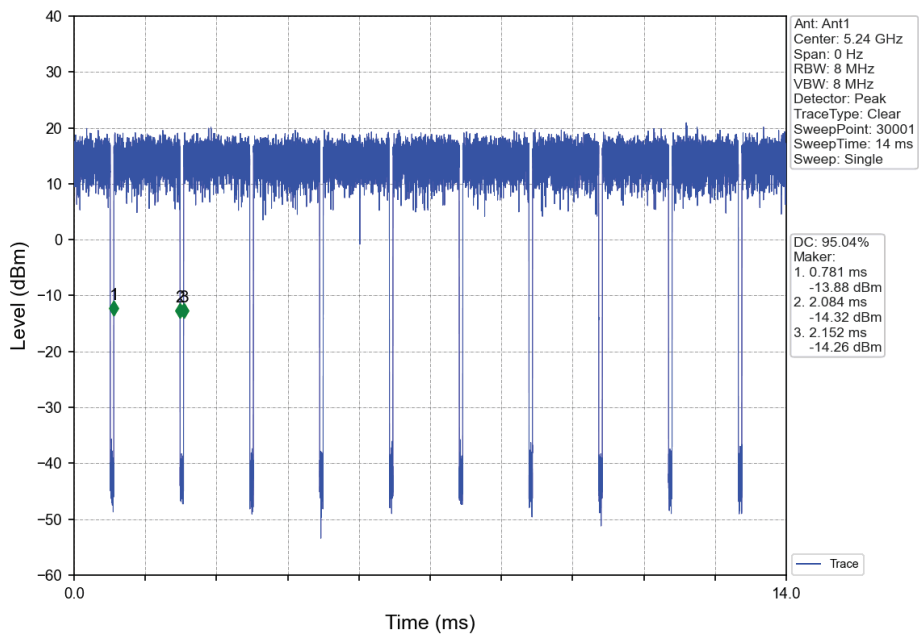
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



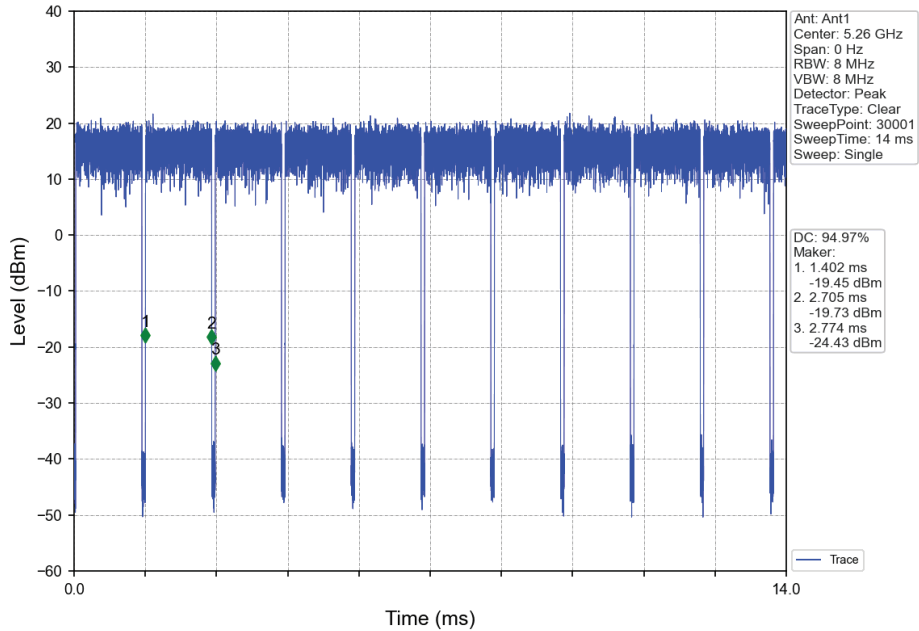
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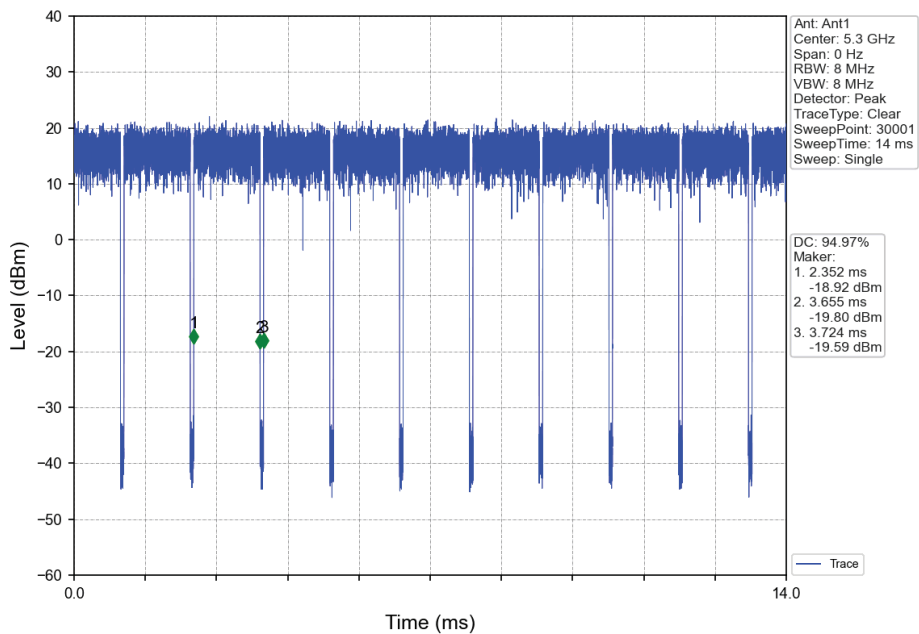
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



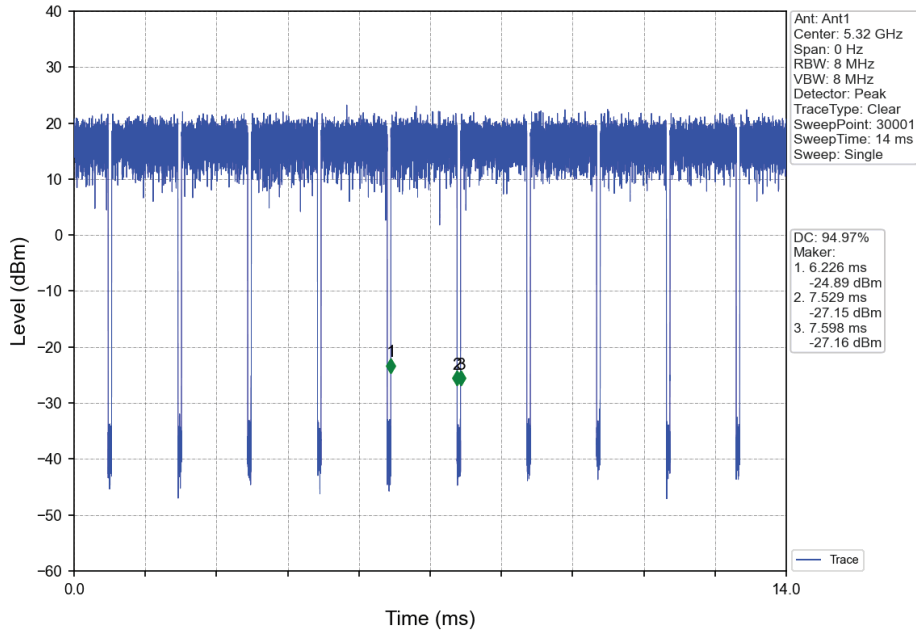
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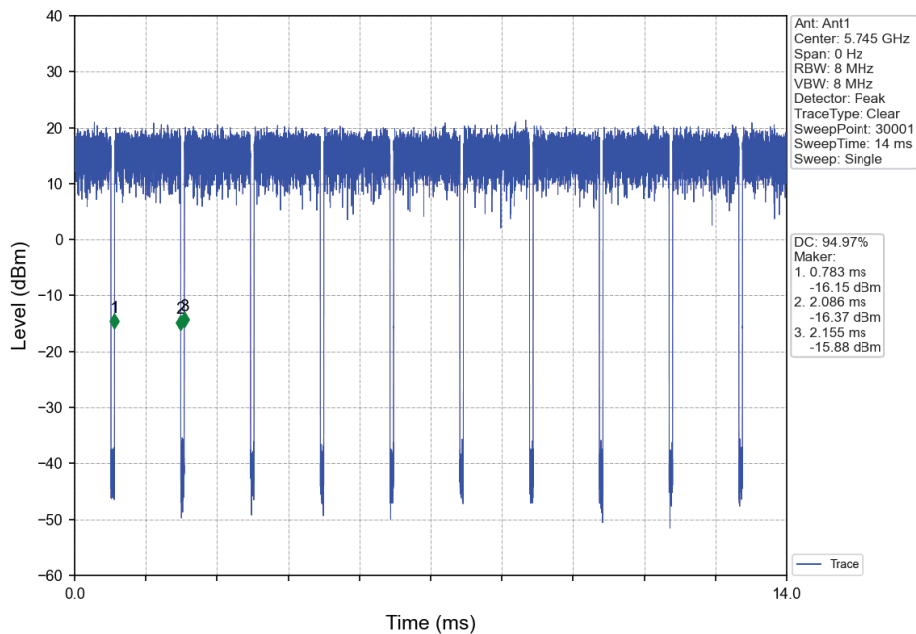
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



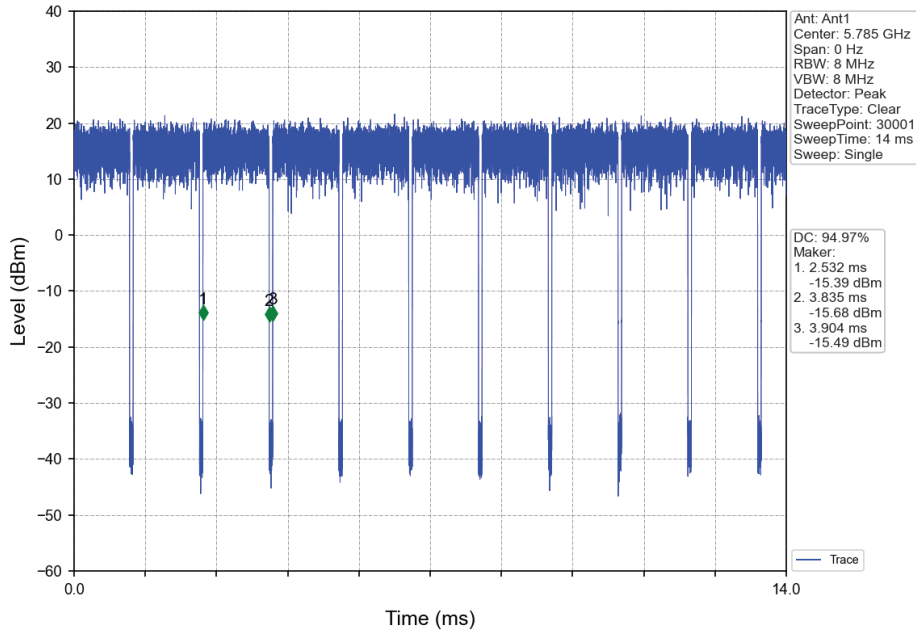
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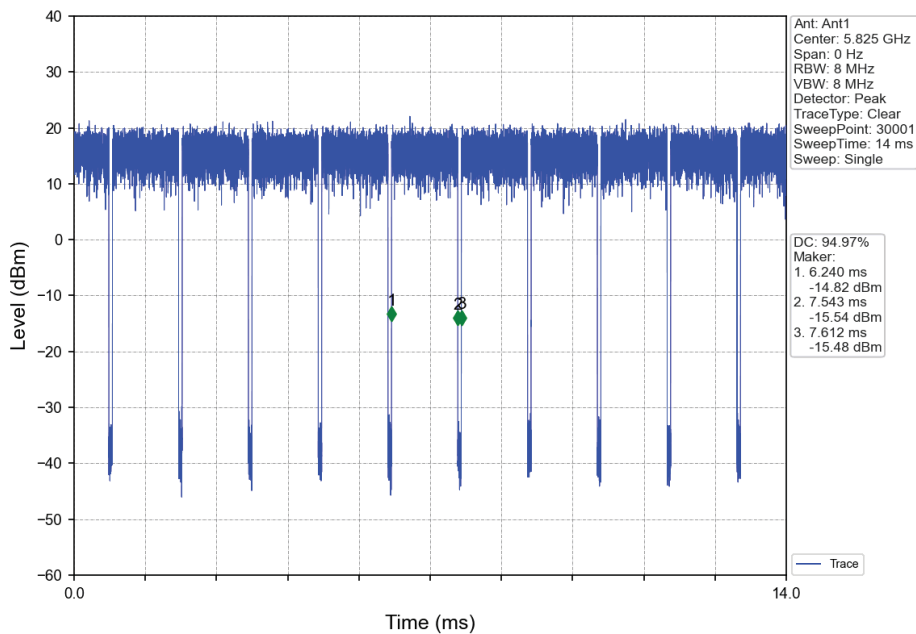
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



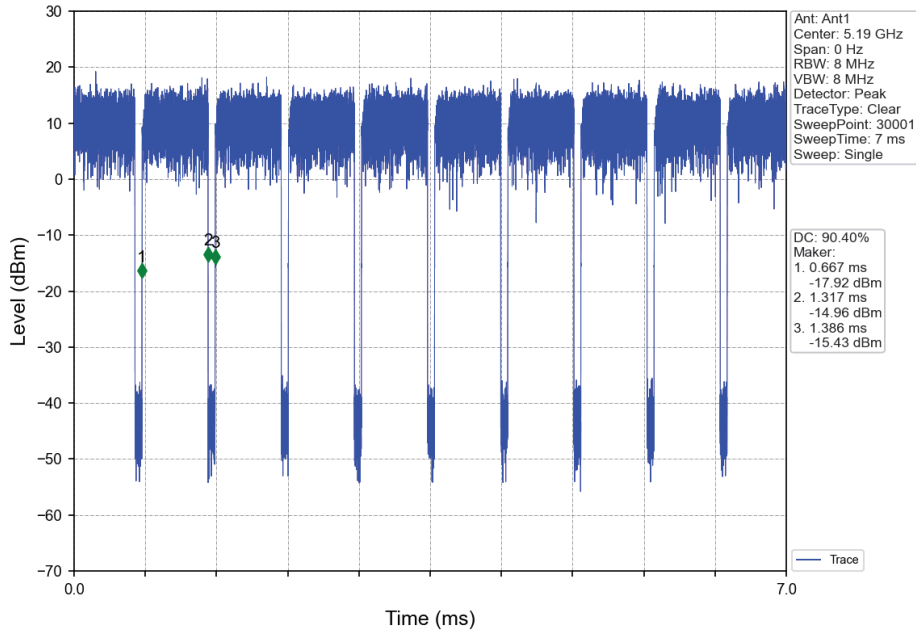
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



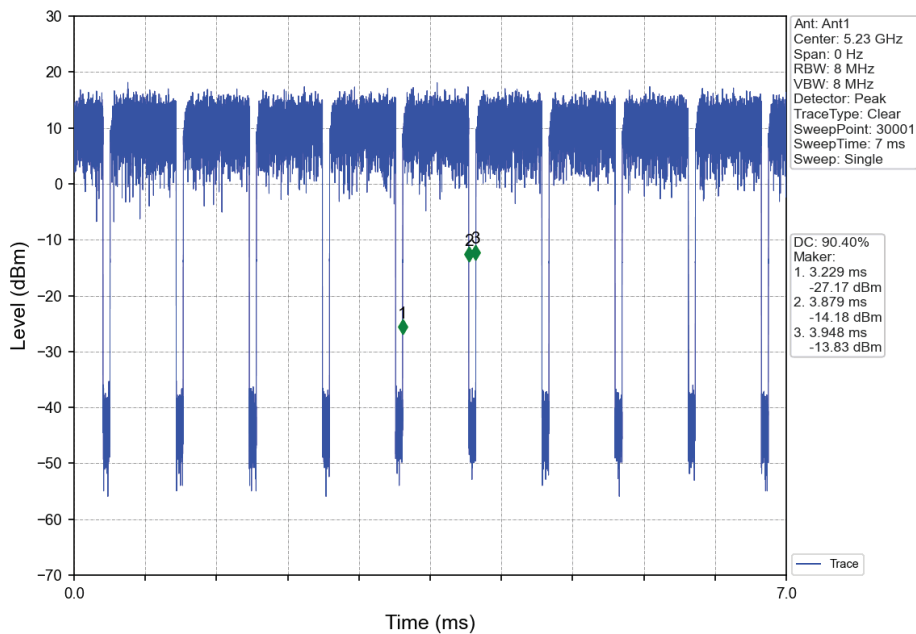
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



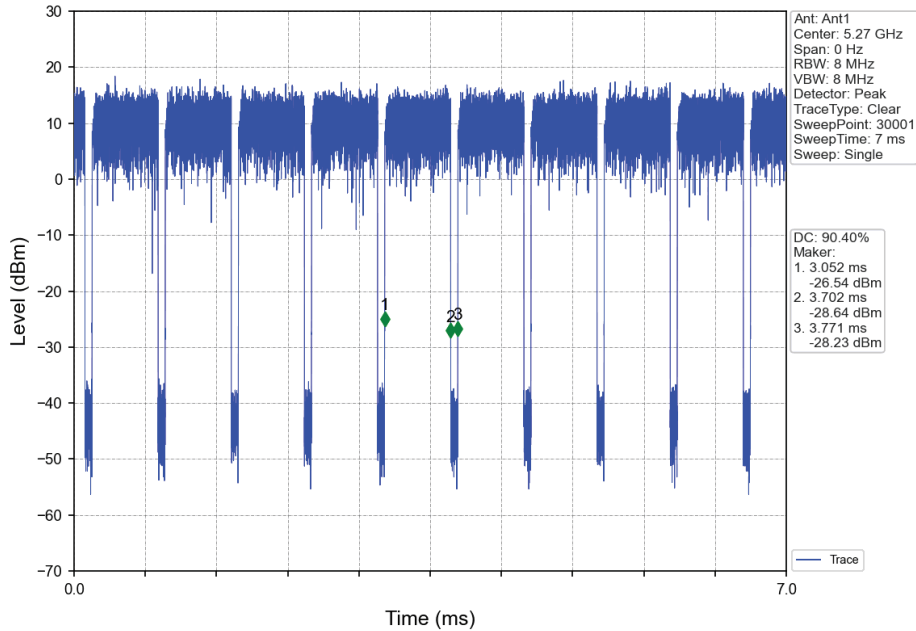
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



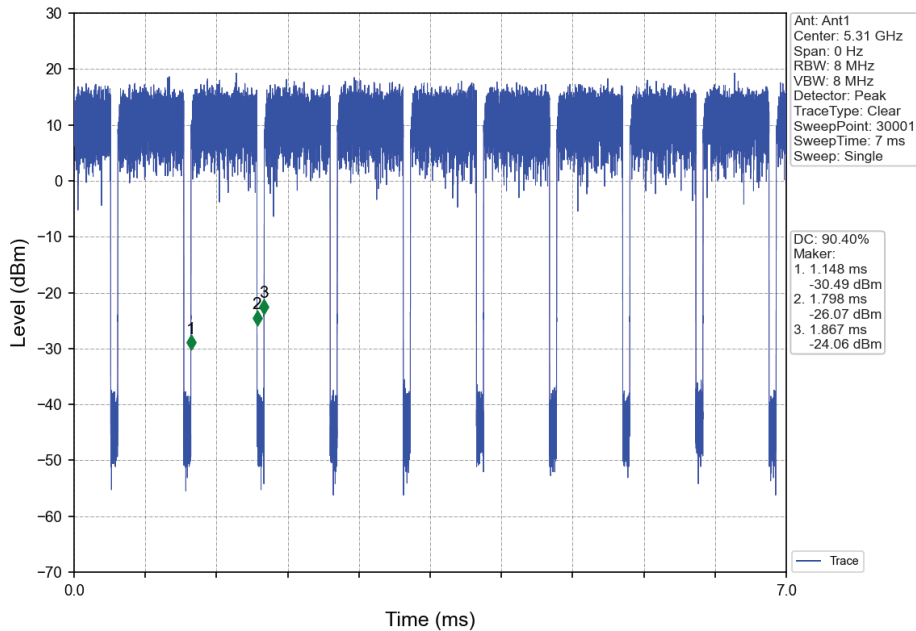
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



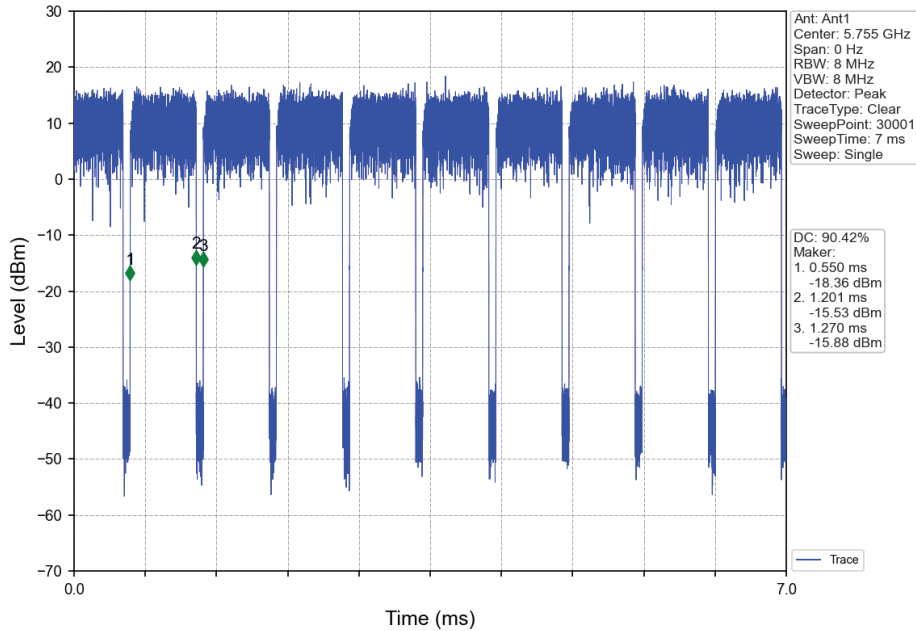
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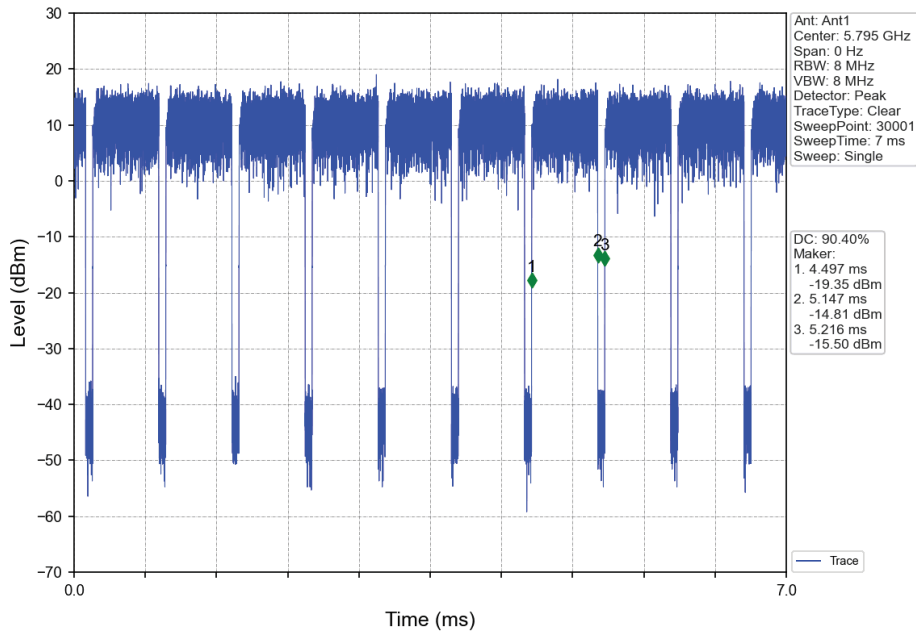
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



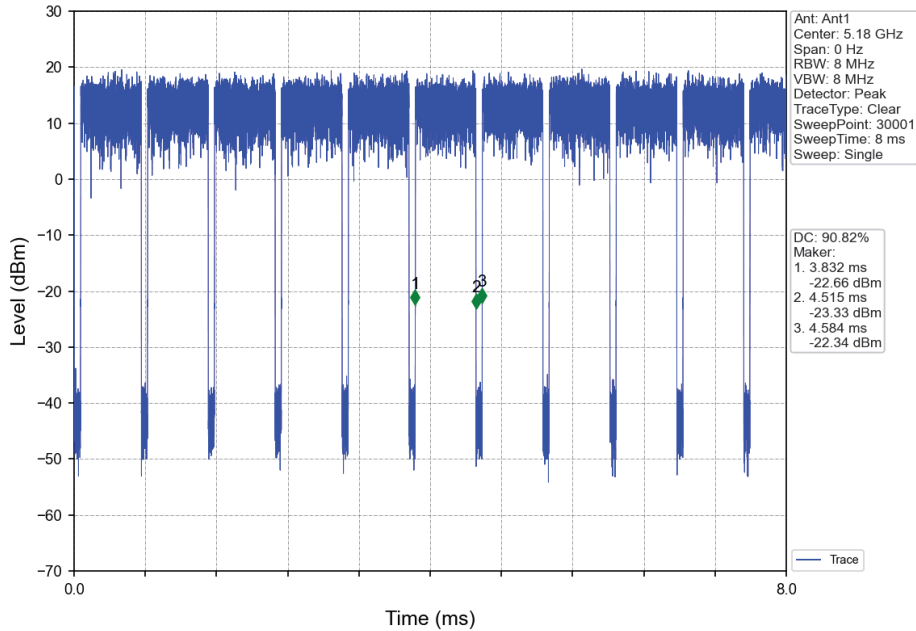
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



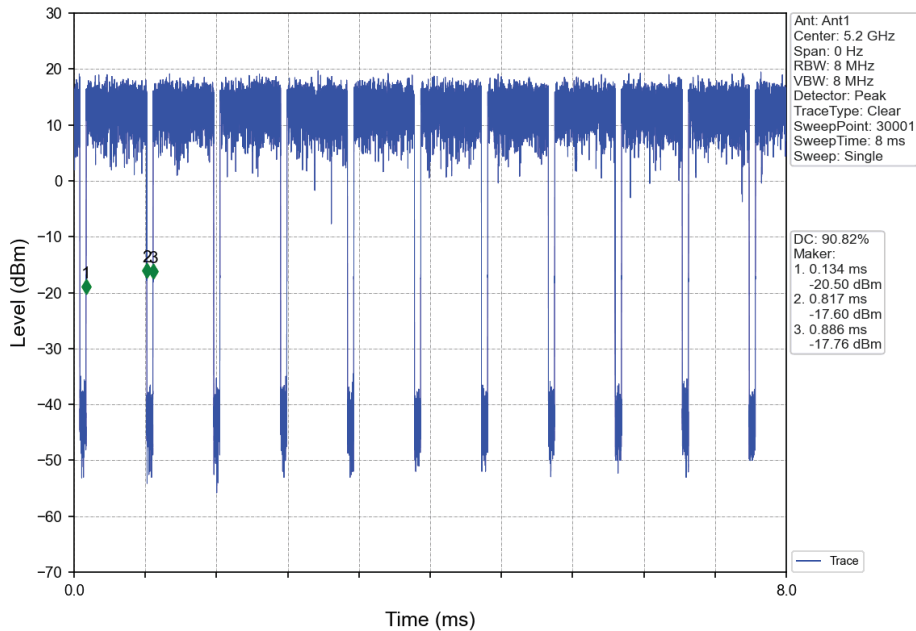
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



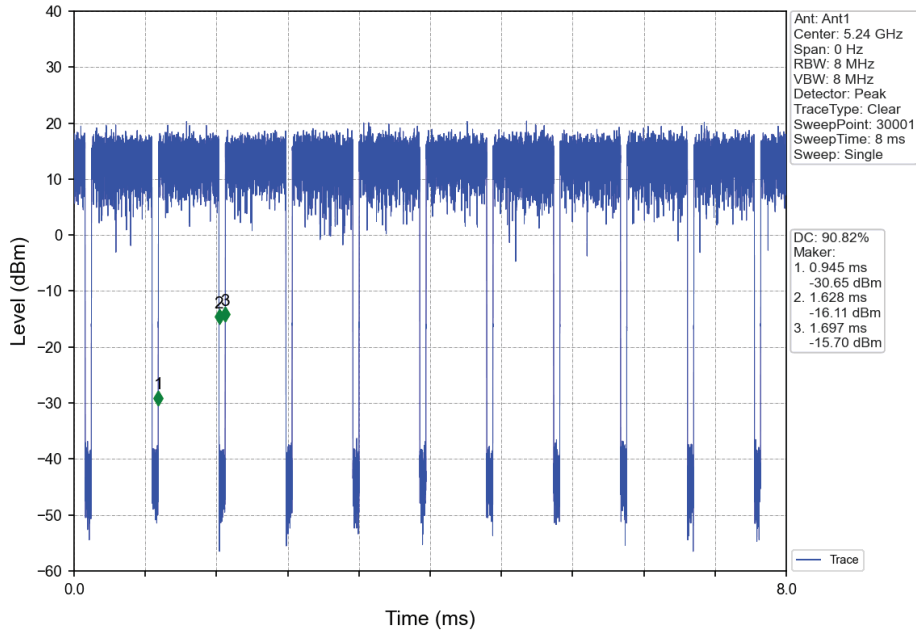
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



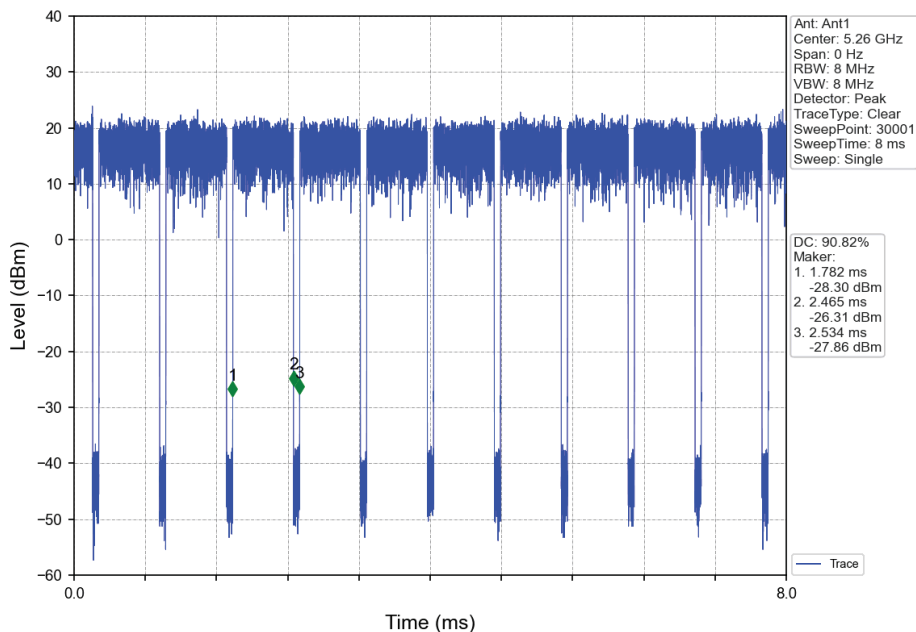
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



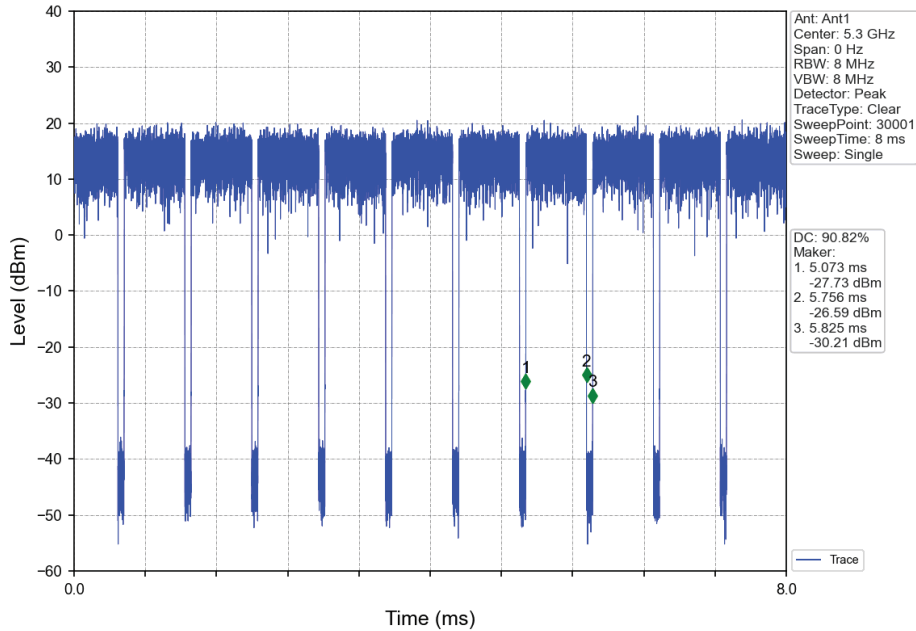
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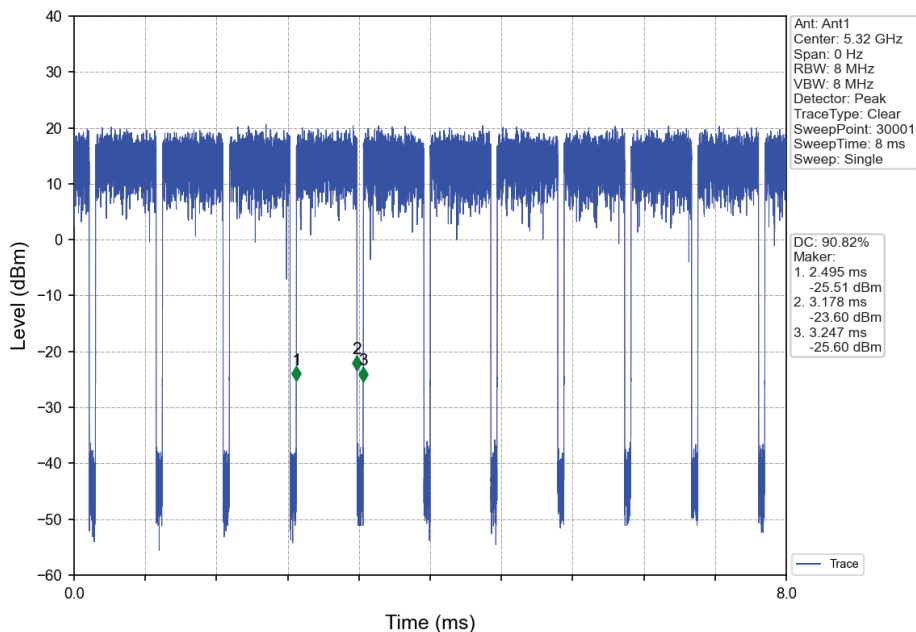
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



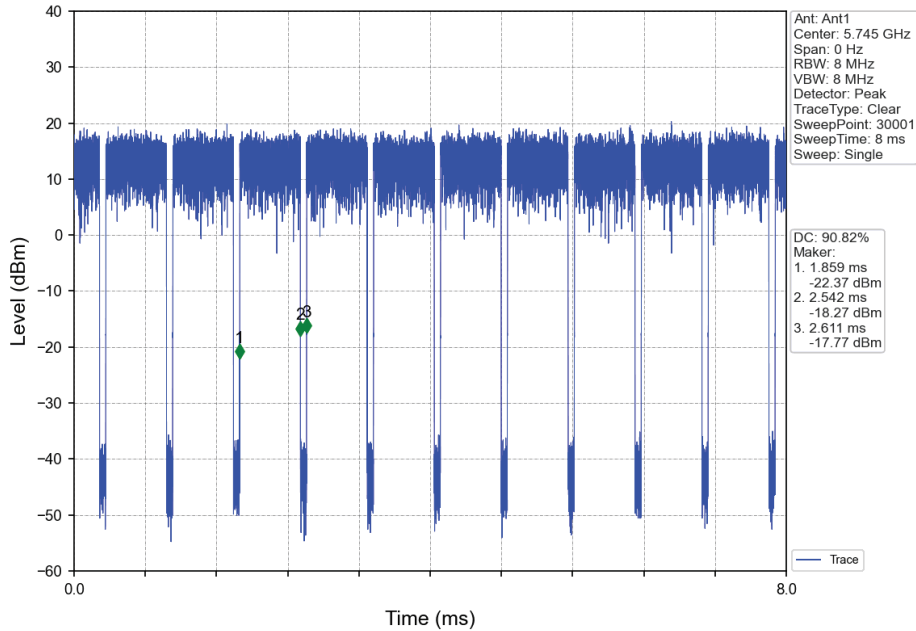
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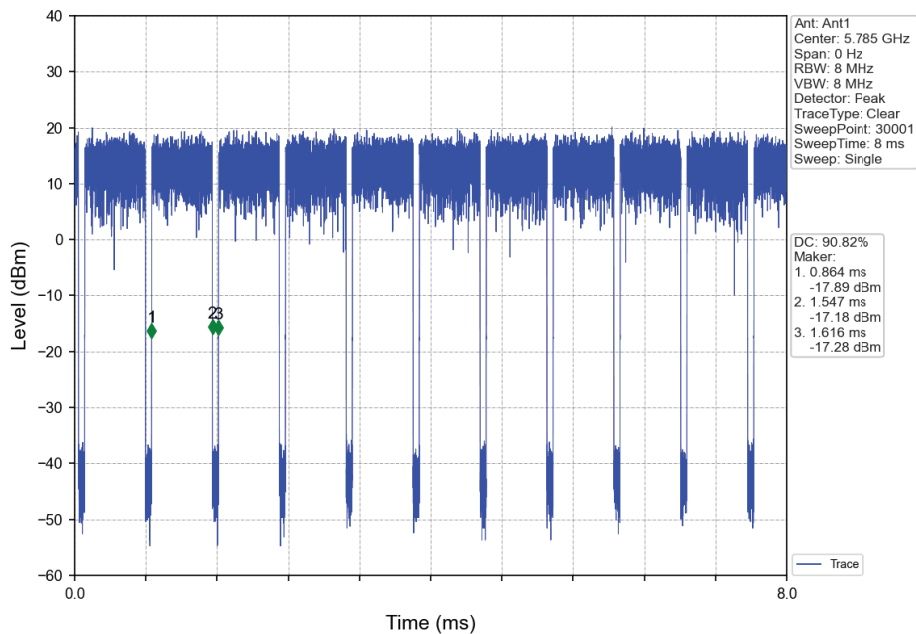
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



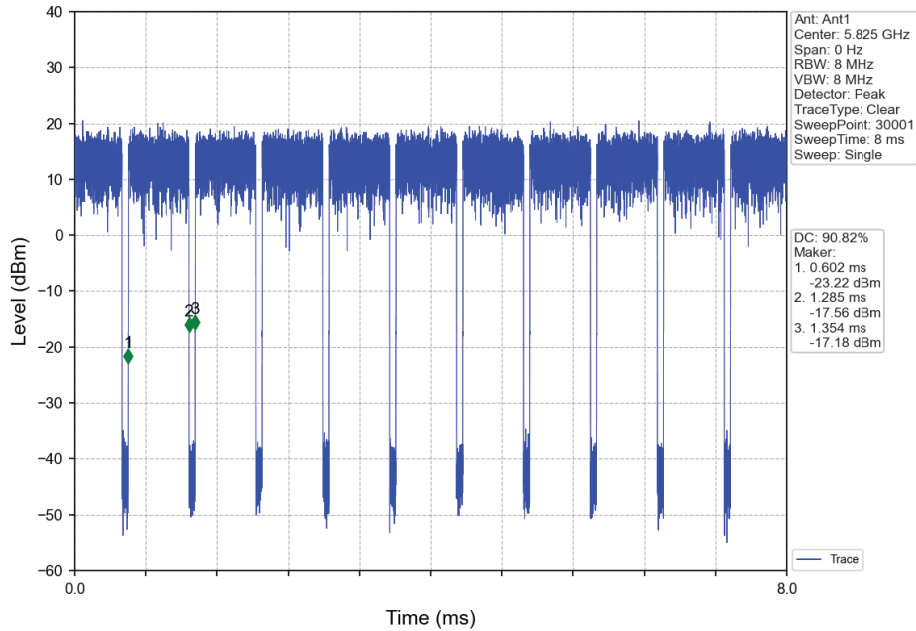
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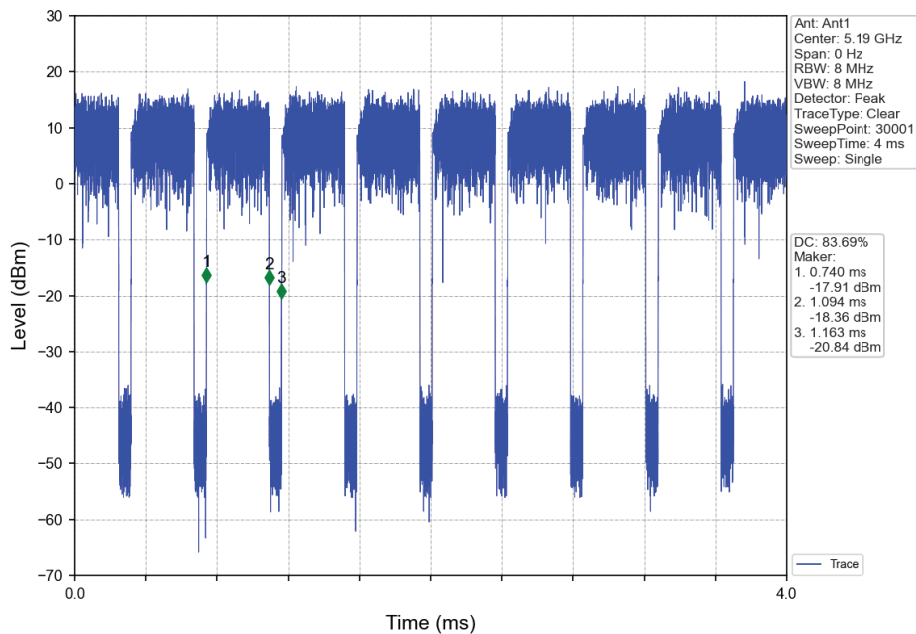
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



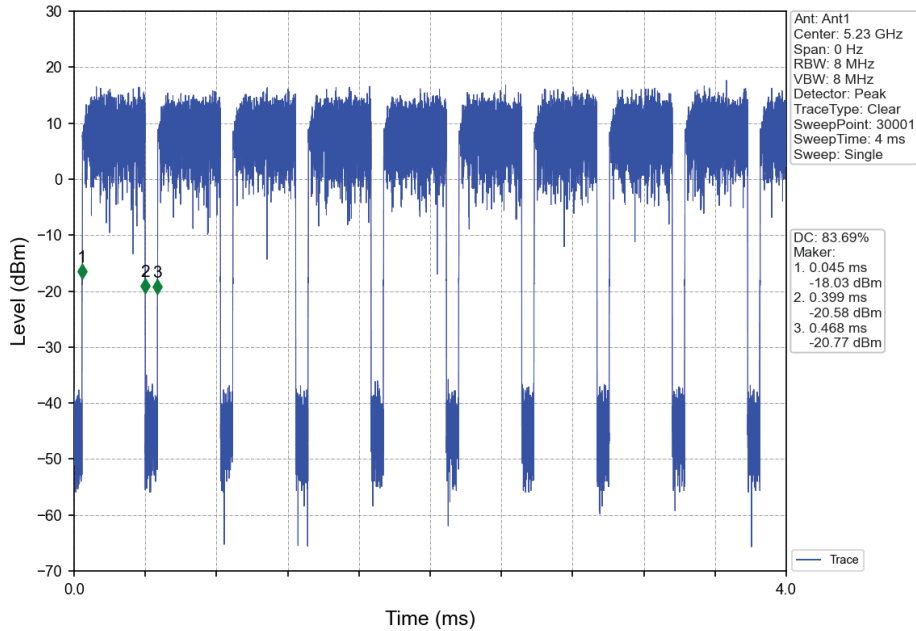
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



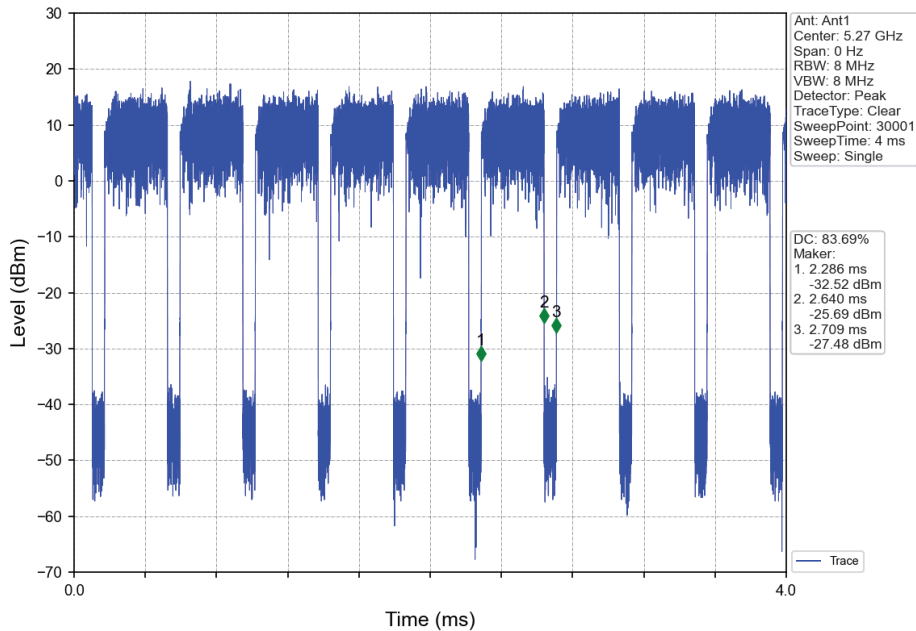
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



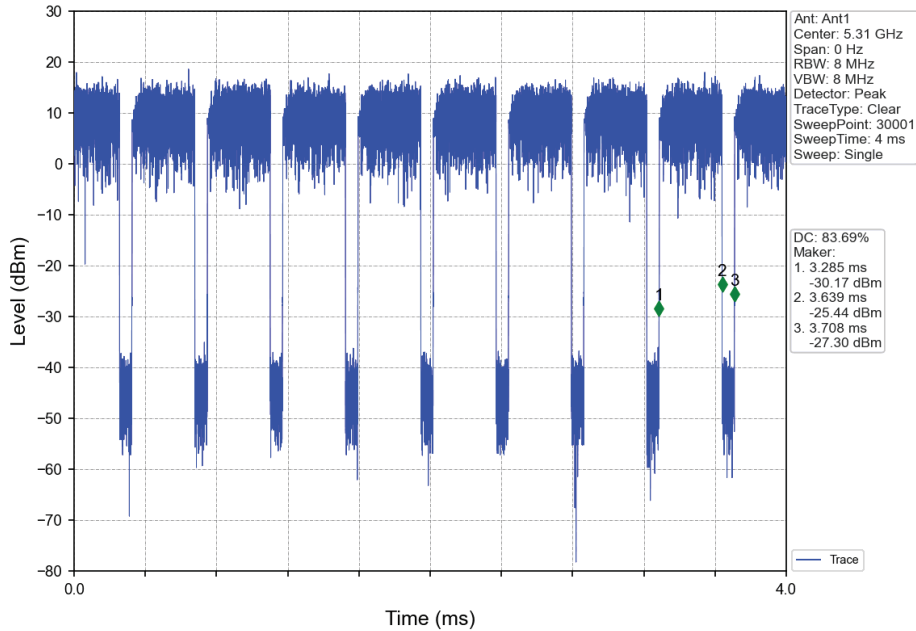
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



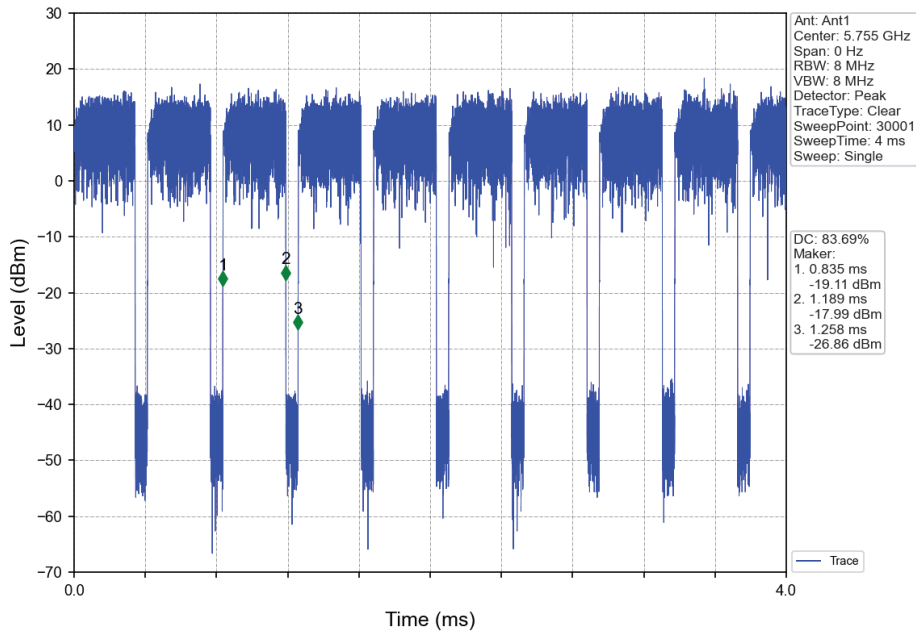
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



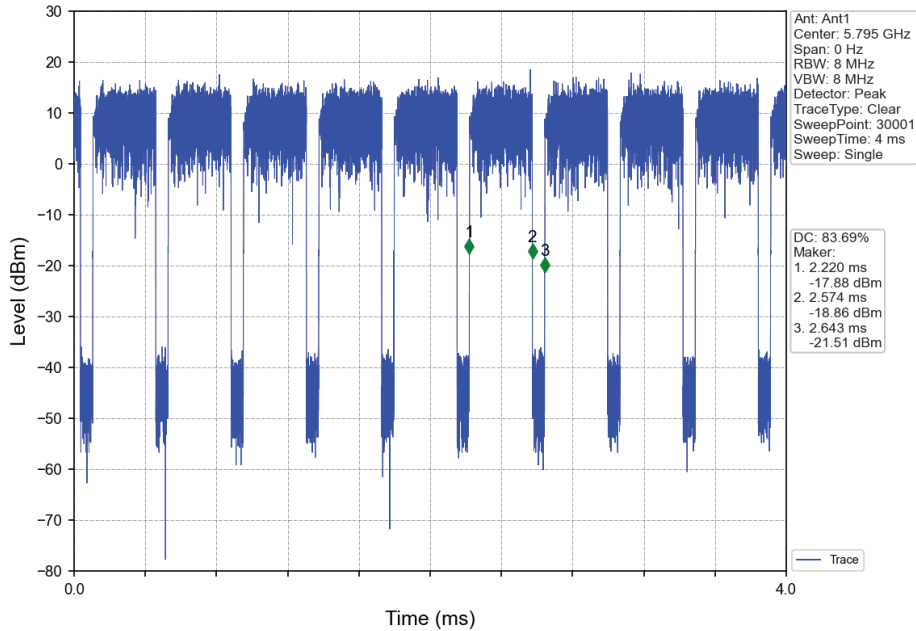
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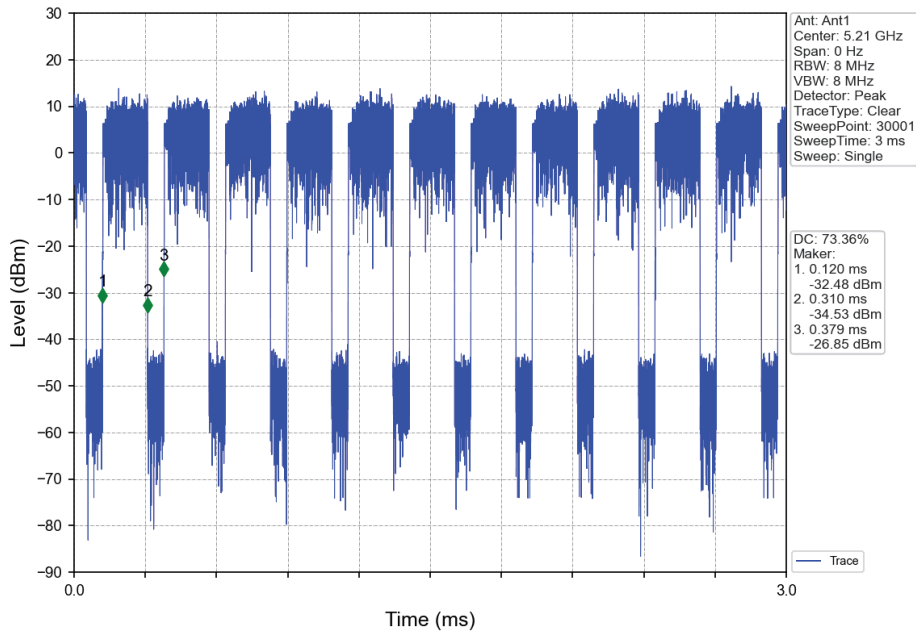
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



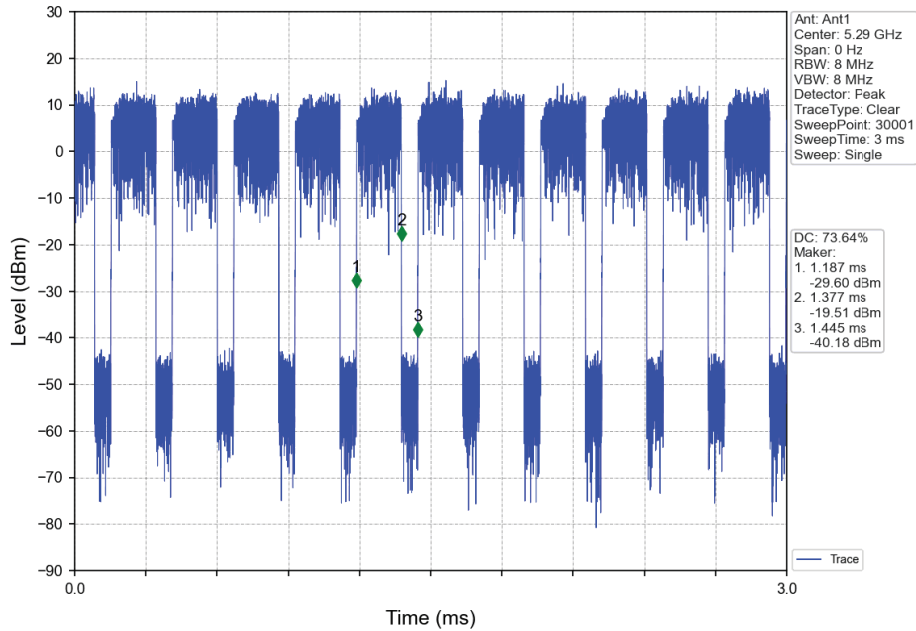
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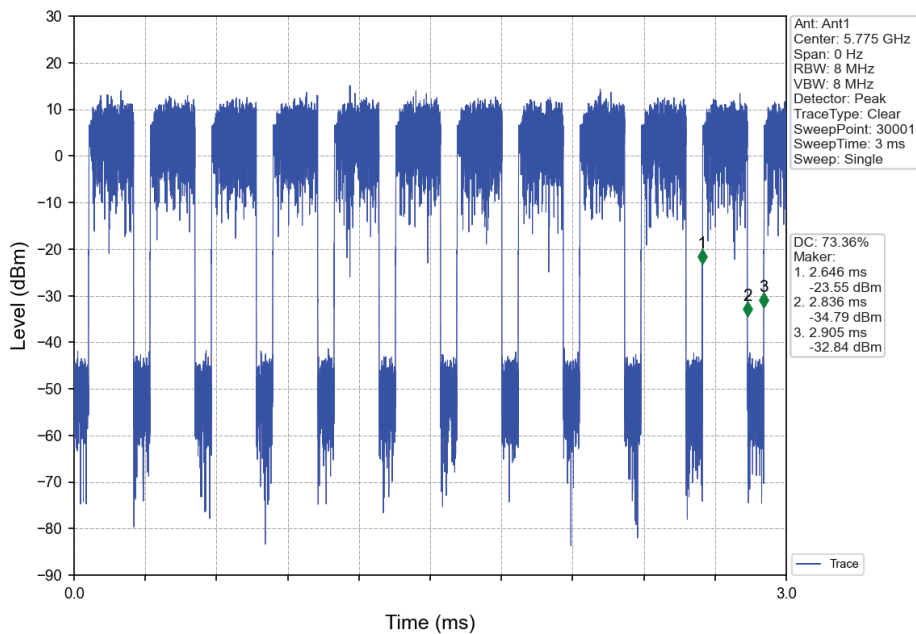
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|------|------------------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 17.285 | Pass |
| | | | 2 | 16.934 | Pass |
| | | 5200 | 1 | 17.502 | Pass |
| | | | 2 | 17.105 | Pass |
| | | 5240 | 1 | 17.433 | Pass |
| | | | 2 | 17.132 | Pass |
| | | 5260 | 1 | 17.858 | Pass |
| | | | 2 | 17.808 | Pass |
| | | 5300 | 1 | 17.966 | Pass |
| | | | 2 | 17.960 | Pass |
| | | 5320 | 1 | 17.275 | Pass |
| | | | 2 | 17.023 | Pass |
| | | 5745 | 1 | 17.493 | Pass |
| | | | 2 | 17.262 | Pass |
| | | 5785 | 1 | 17.466 | Pass |
| | | | 2 | 17.264 | Pass |
| 5825 | 1 | 17.529 | Pass | | |
| | 2 | 17.276 | Pass | | |
| 802.11n (HT20) | MIMO | 5180 | 1 | 18.145 | Pass |
| | | | 2 | 17.889 | Pass |
| | | 5200 | 1 | 18.206 | Pass |
| | | | 2 | 17.873 | Pass |
| | | 5240 | 1 | 18.164 | Pass |
| | | | 2 | 17.889 | Pass |
| | | 5260 | 1 | 18.135 | Pass |
| | | | 2 | 17.916 | Pass |
| | | 5300 | 1 | 18.183 | Pass |
| | | | 2 | 17.941 | Pass |
| | | 5320 | 1 | 18.159 | Pass |
| | | | 2 | 17.907 | Pass |
| | | 5745 | 1 | 18.150 | Pass |
| | | | 2 | 18.033 | Pass |
| | | 5785 | 1 | 18.223 | Pass |
| | | | 2 | 18.223 | Pass |



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| | | | | | |
|---------------------|------|------|---|--------|------|
| | | | 2 | 17.995 | Pass |
| | | 5825 | 1 | 18.300 | Pass |
| | | | 2 | 18.018 | Pass |
| 802.11n (HT40) | MIMO | 5190 | 1 | 36.247 | Pass |
| | | | 2 | 36.394 | Pass |
| | | 5230 | 1 | 36.547 | Pass |
| | | | 2 | 36.469 | Pass |
| | | 5270 | 1 | 36.438 | Pass |
| | | | 2 | 36.376 | Pass |
| | | 5310 | 1 | 36.380 | Pass |
| | | | 2 | 36.323 | Pass |
| | | 5755 | 1 | 36.462 | Pass |
| | | | 2 | 36.362 | Pass |
| | | 5795 | 1 | 36.478 | Pass |
| | | | 2 | 36.484 | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | 1 | 18.067 | Pass |
| | | | 2 | 17.873 | Pass |
| | | 5200 | 1 | 18.179 | Pass |
| | | | 2 | 17.927 | Pass |
| | | 5240 | 1 | 18.167 | Pass |
| | | | 2 | 17.899 | Pass |
| | | 5260 | 1 | 18.488 | Pass |
| | | | 2 | 18.221 | Pass |
| | | 5300 | 1 | 18.125 | Pass |
| | | | 2 | 17.912 | Pass |
| | | 5320 | 1 | 18.052 | Pass |
| | | | 2 | 17.882 | Pass |
| | | 5745 | 1 | 18.192 | Pass |
| | | | 2 | 17.929 | Pass |
| | | 5785 | 1 | 18.113 | Pass |
| | | | 2 | 17.898 | Pass |
| | | 5825 | 1 | 18.193 | Pass |
| | | | 2 | 17.943 | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | 1 | 36.342 | Pass |
| | | | 2 | 36.336 | Pass |
| | | 5230 | 1 | 36.517 | Pass |
| | | | 2 | 36.376 | Pass |
| | | 5270 | 1 | 36.464 | Pass |
| | | | 2 | 36.458 | Pass |
| | | 5310 | 1 | 36.323 | Pass |



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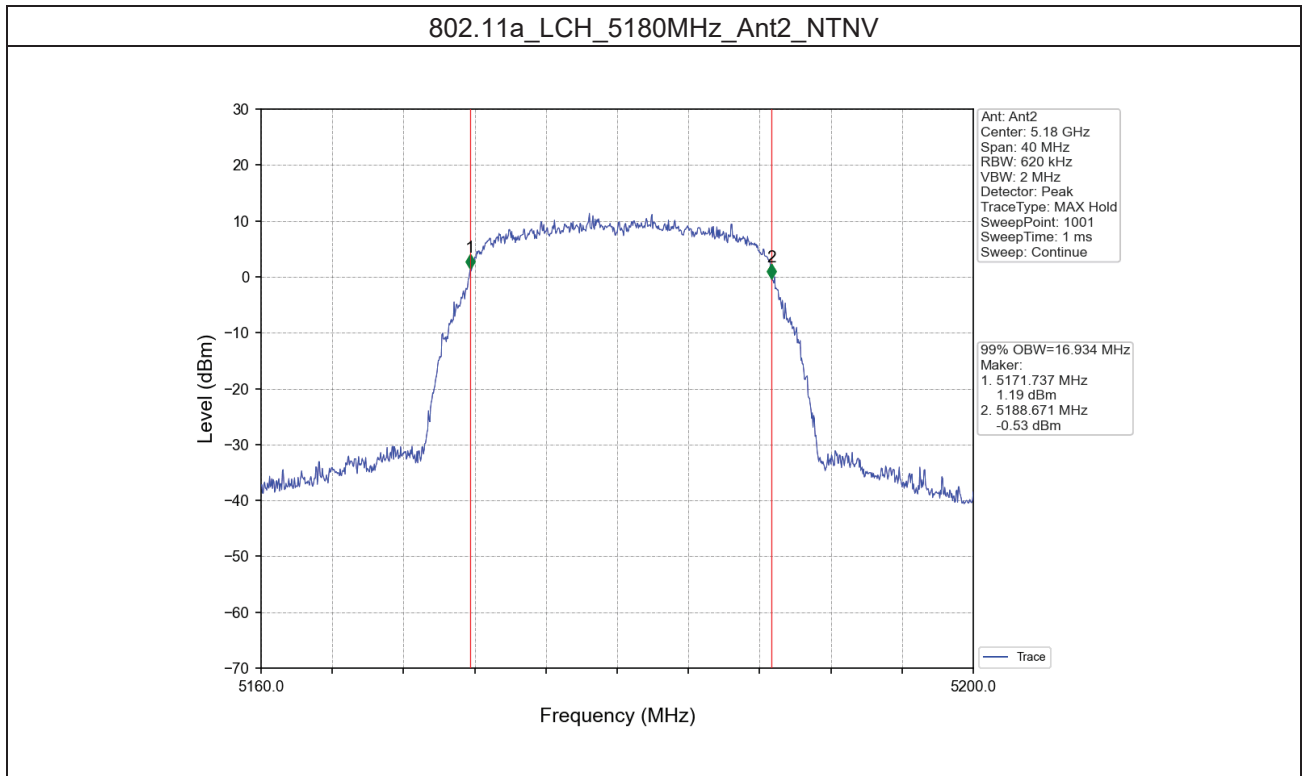
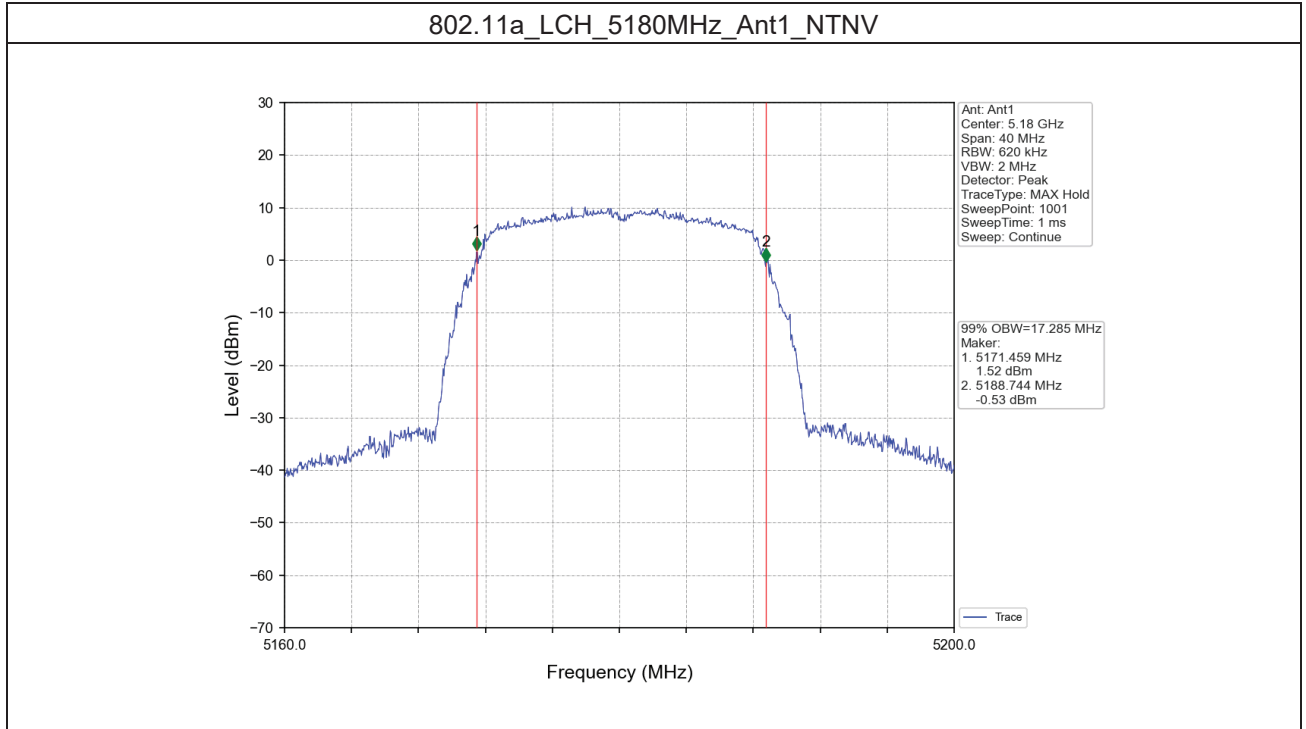
| | | | | | |
|---------------------|------|------|---|--------|------|
| | | | 2 | 36.245 | Pass |
| | | 5755 | 1 | 36.410 | Pass |
| | | | 2 | 36.420 | Pass |
| | | 5795 | 1 | 36.476 | Pass |
| | | | 2 | 36.530 | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | 1 | 75.824 | Pass |
| | | | 2 | 75.836 | Pass |
| | | 5290 | 1 | 75.679 | Pass |
| | | | 2 | 75.644 | Pass |
| | | 5775 | 1 | 75.972 | Pass |
| | | | 2 | 75.687 | Pass |



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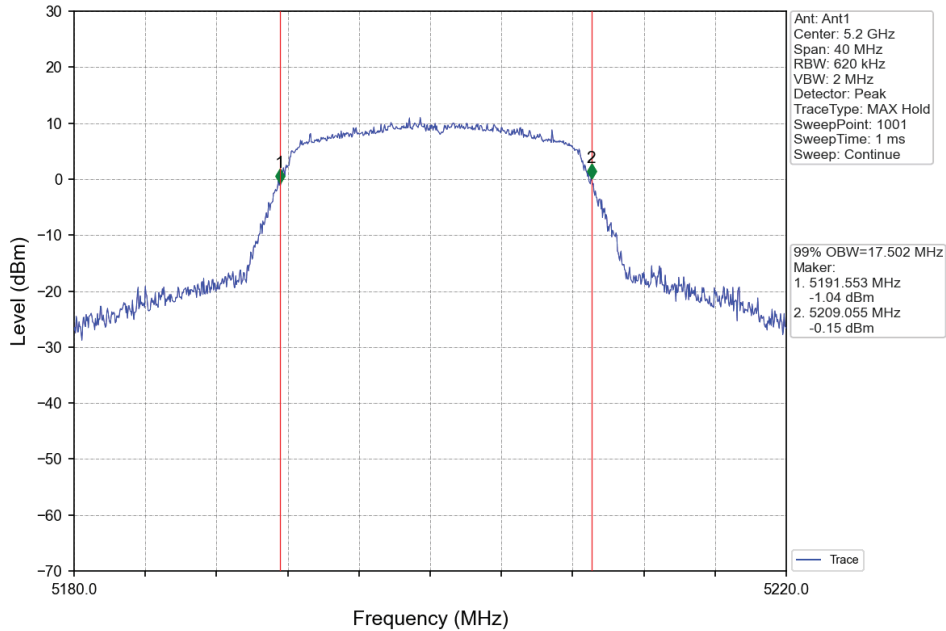
2.1.2 Test Graph



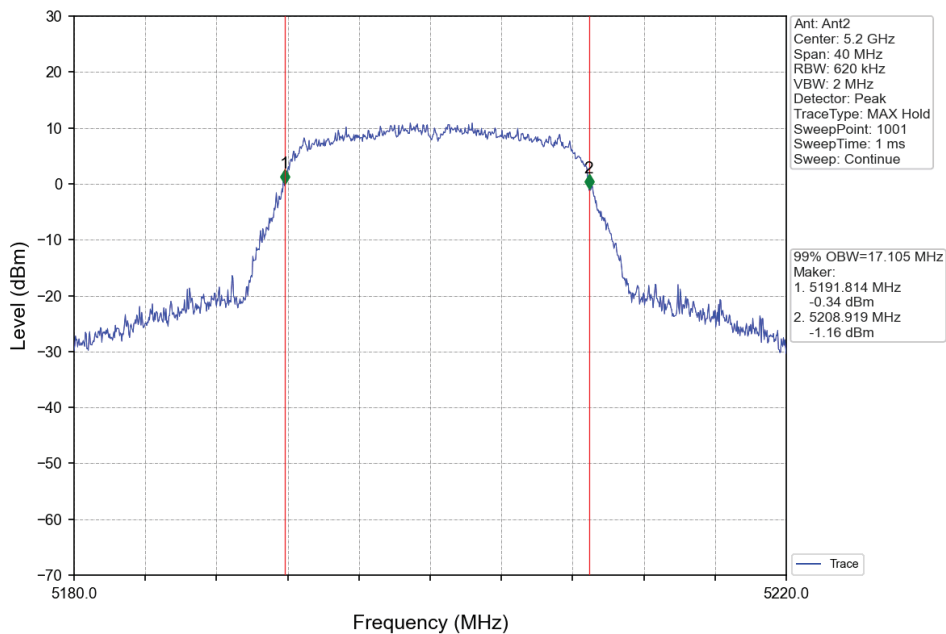
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802.11a_MCH_5200MHz_Ant1_NTNV



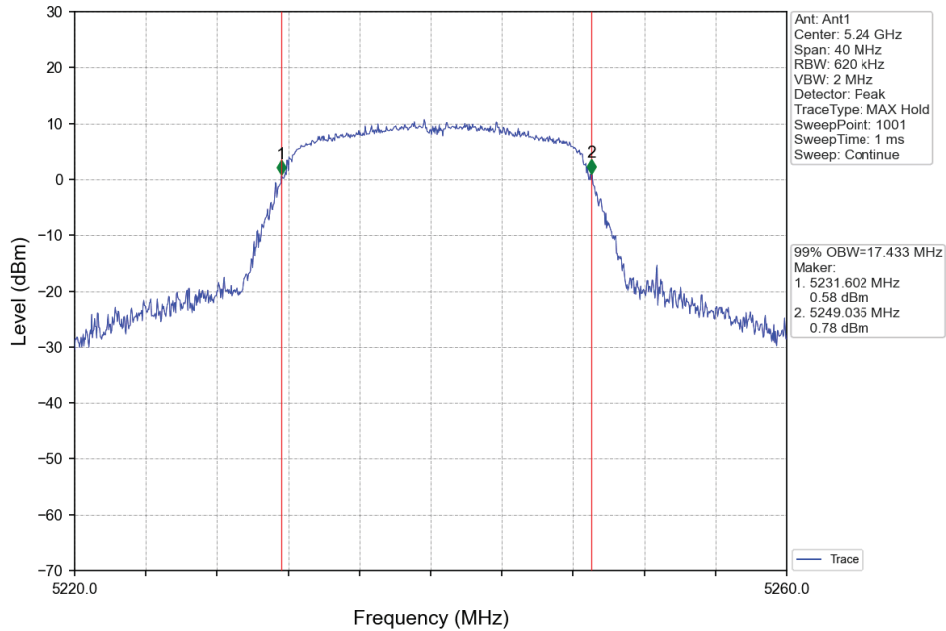
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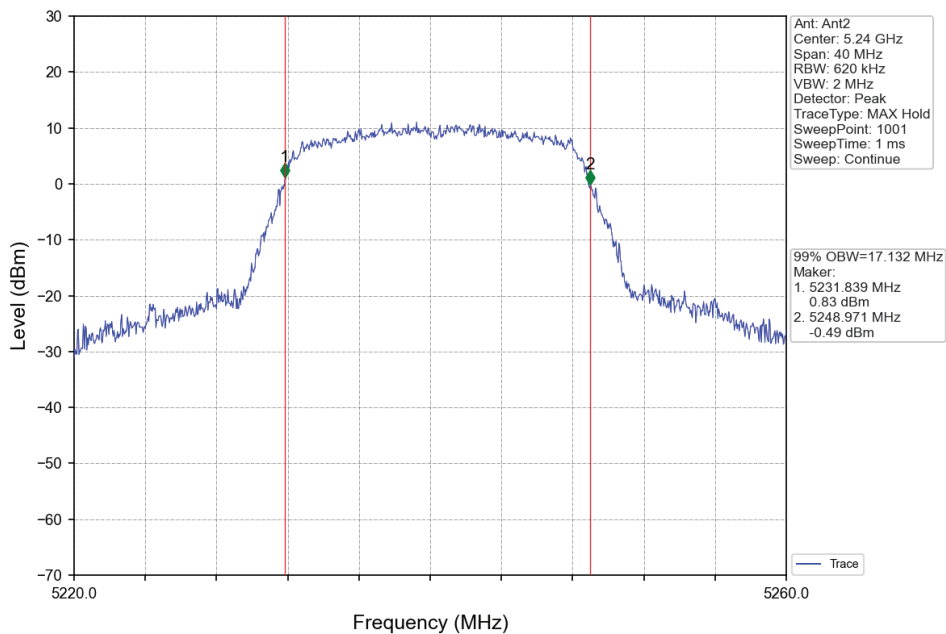
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802.11a_HCH_5240MHz_Ant1_NTNV



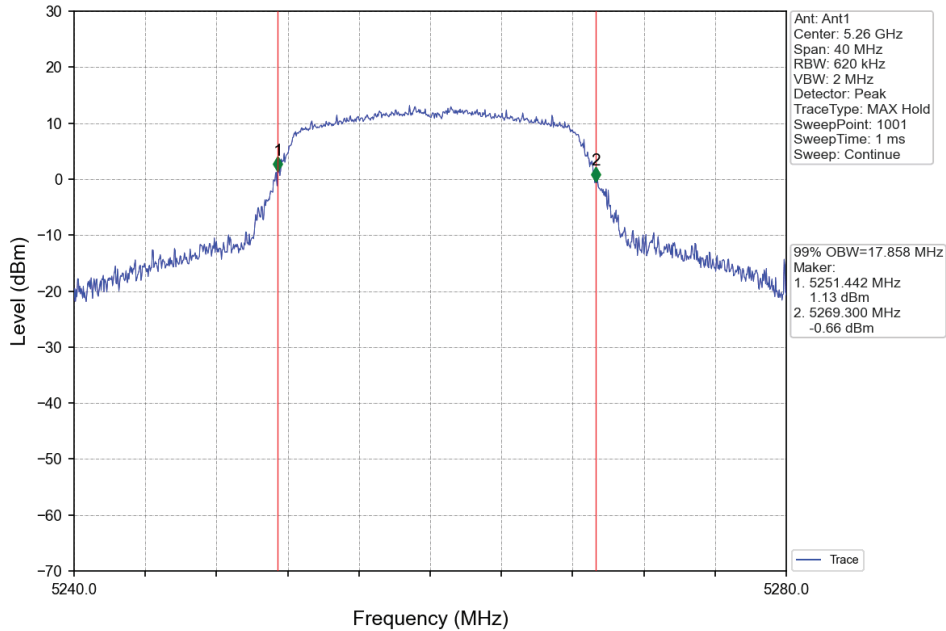
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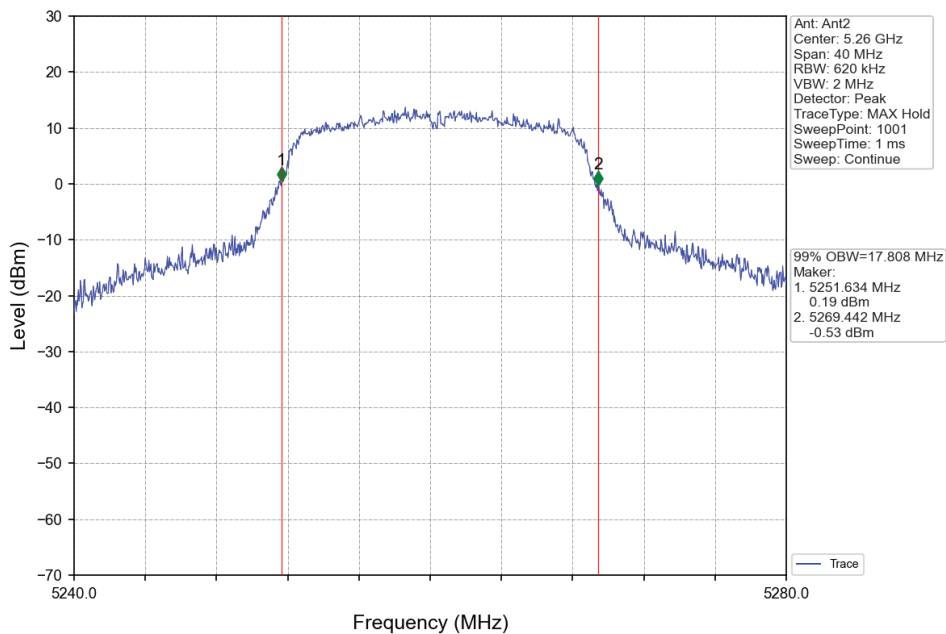
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802.11a_LCH_5260MHz_Ant1_NTNV



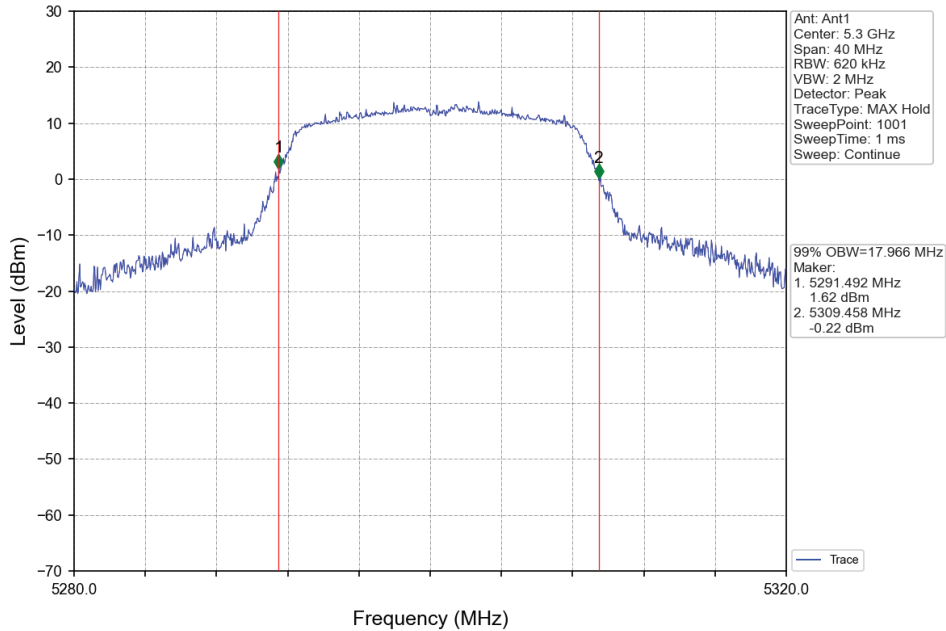
802.11a_LCH_5260MHz_Ant2_NTNV



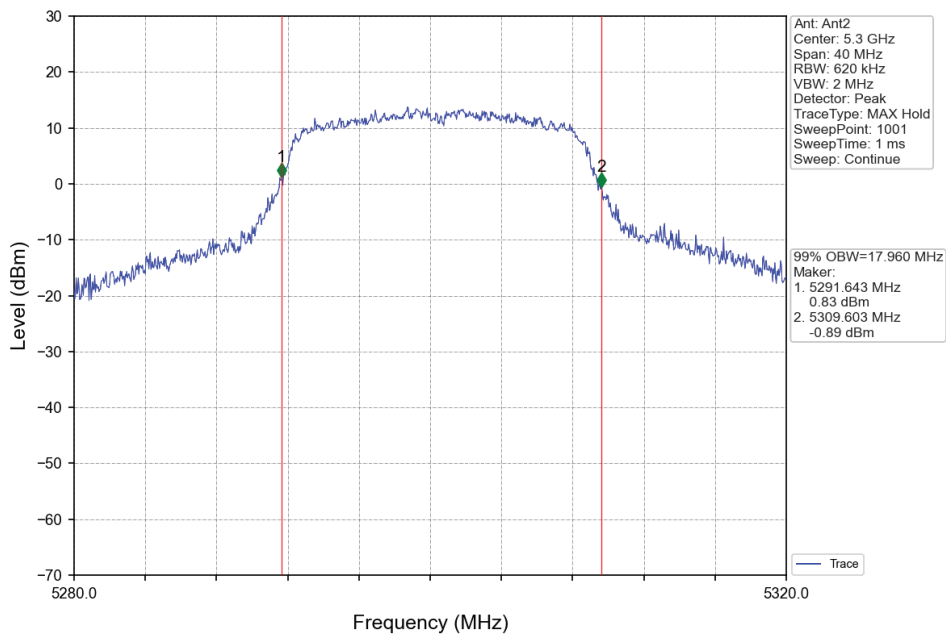
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802.11a_MCH_5300MHz_Ant1_NTNV



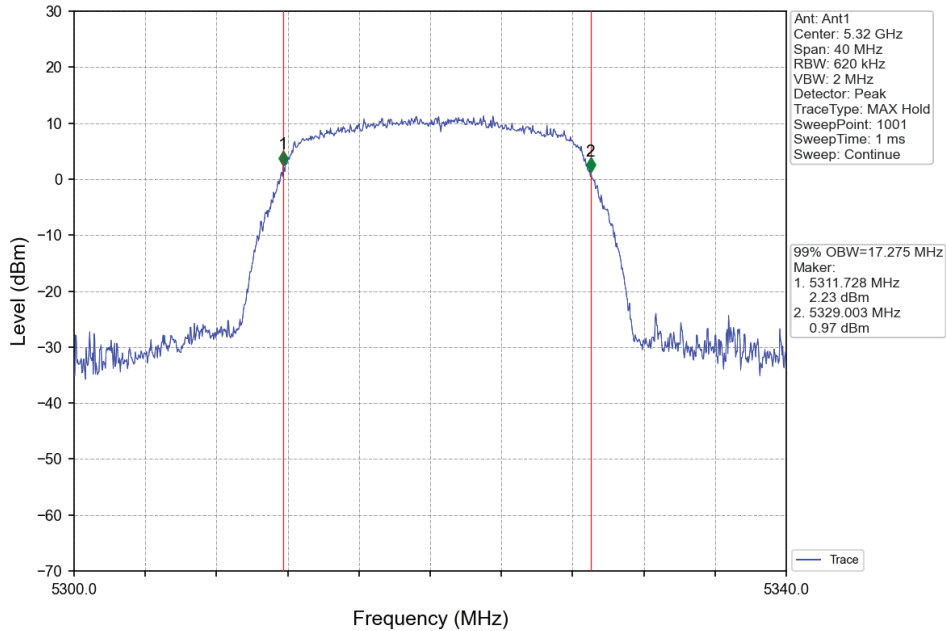
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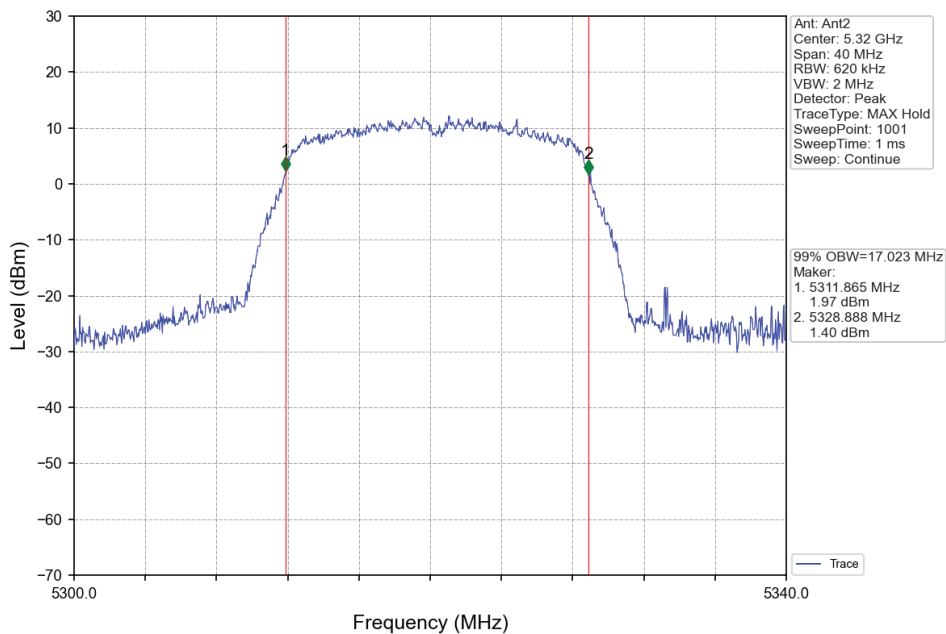
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802.11a_HCH_5320MHz_Ant1_NTNV



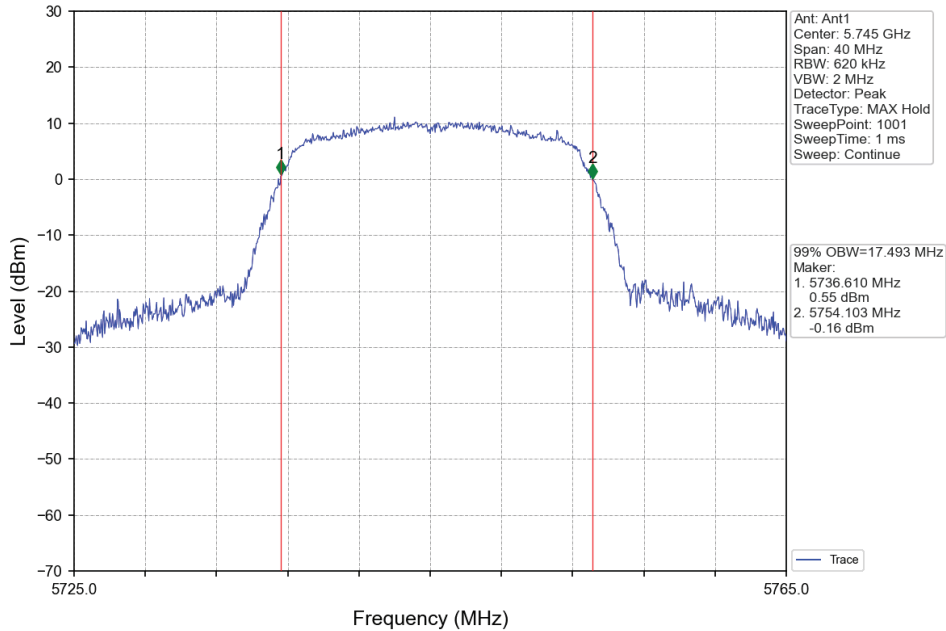
802.11a_HCH_5320MHz_Ant2_NTNV



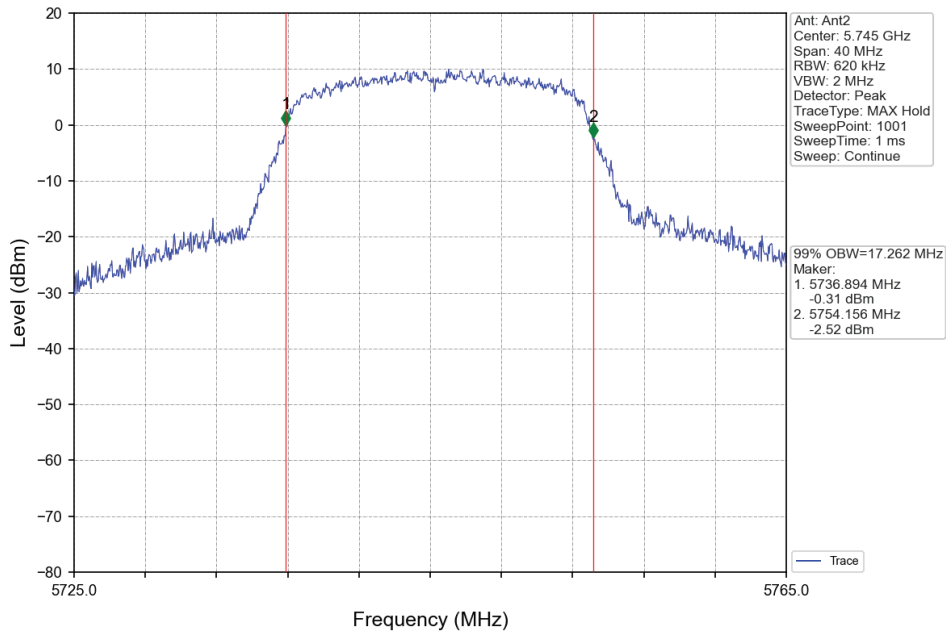
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802.11a_LCH_5745MHz_Ant1_NTNV



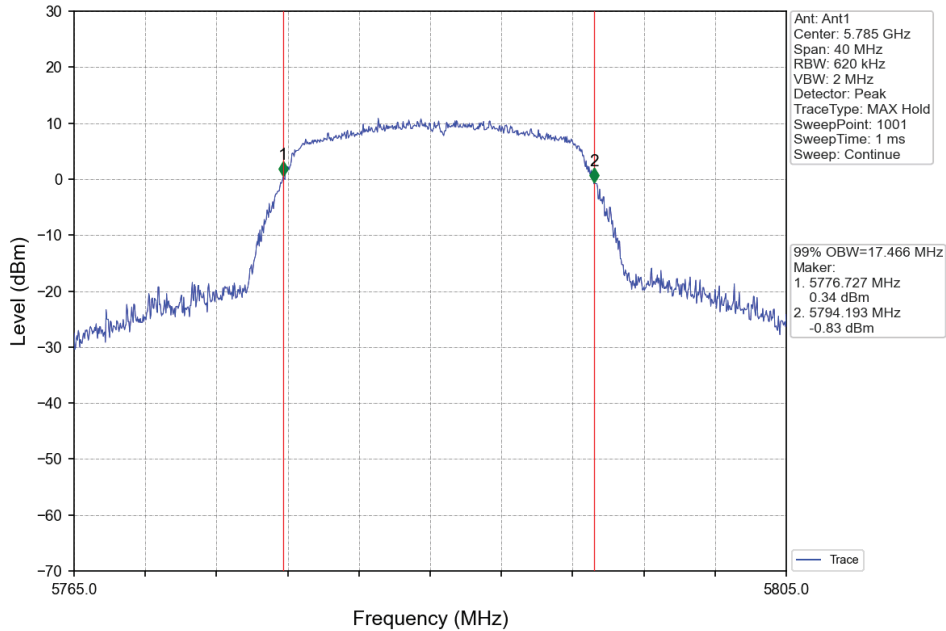
802.11a_LCH_5745MHz_Ant2_NTNV



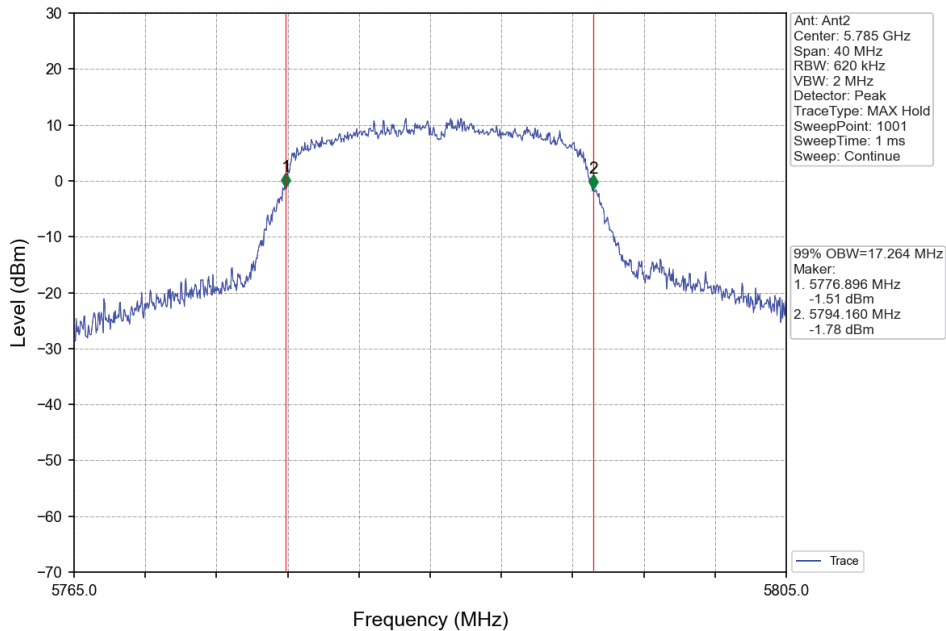
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802.11a_MCH_5785MHz_Ant1_NTNV



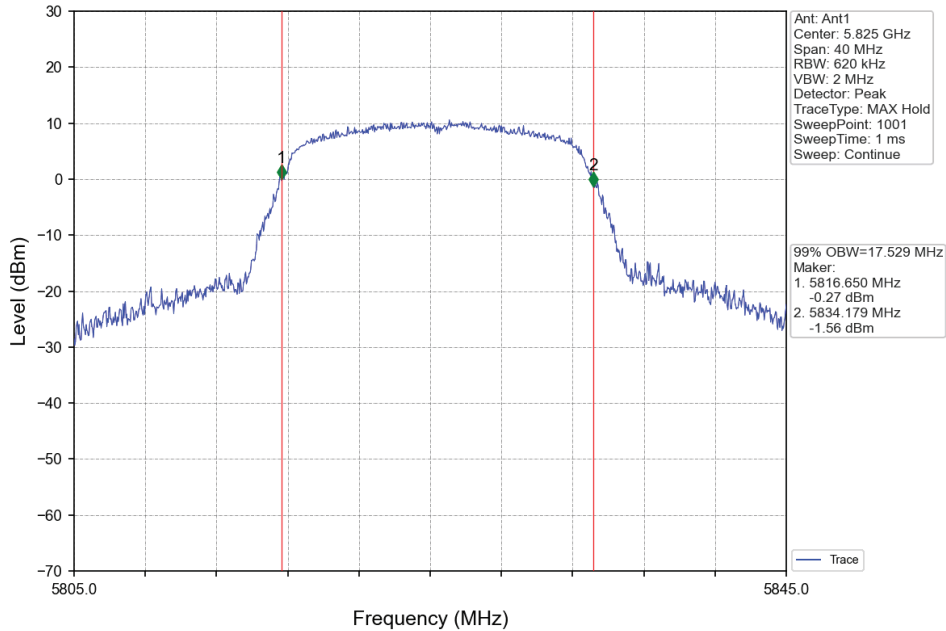
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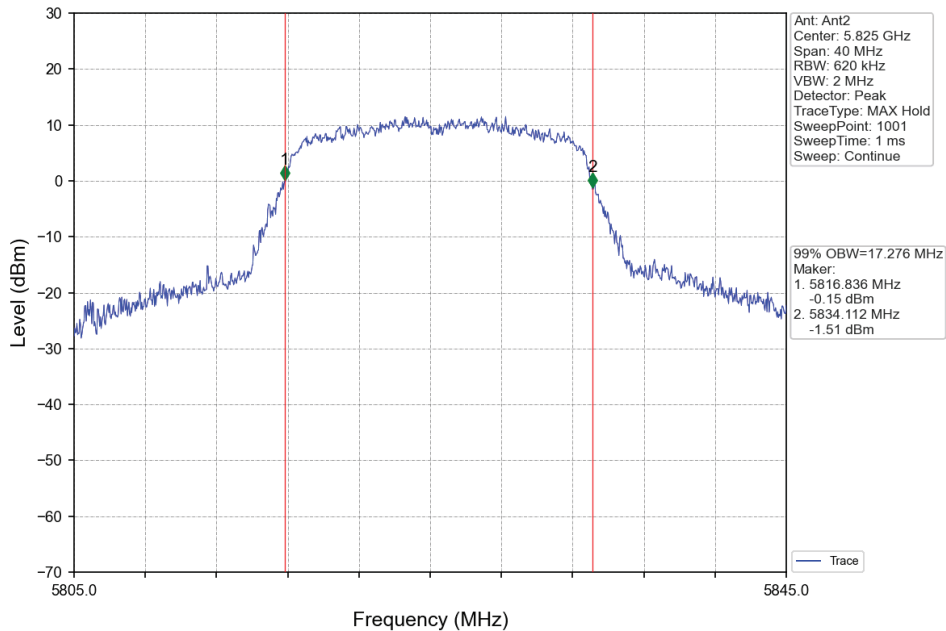
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802.11a_HCH_5825MHz_Ant1_NTNV



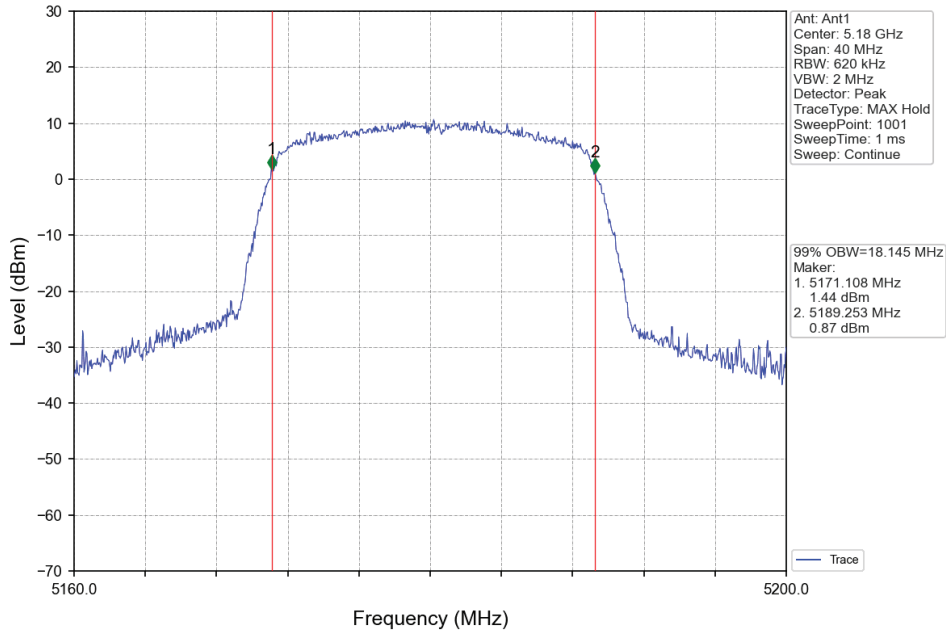
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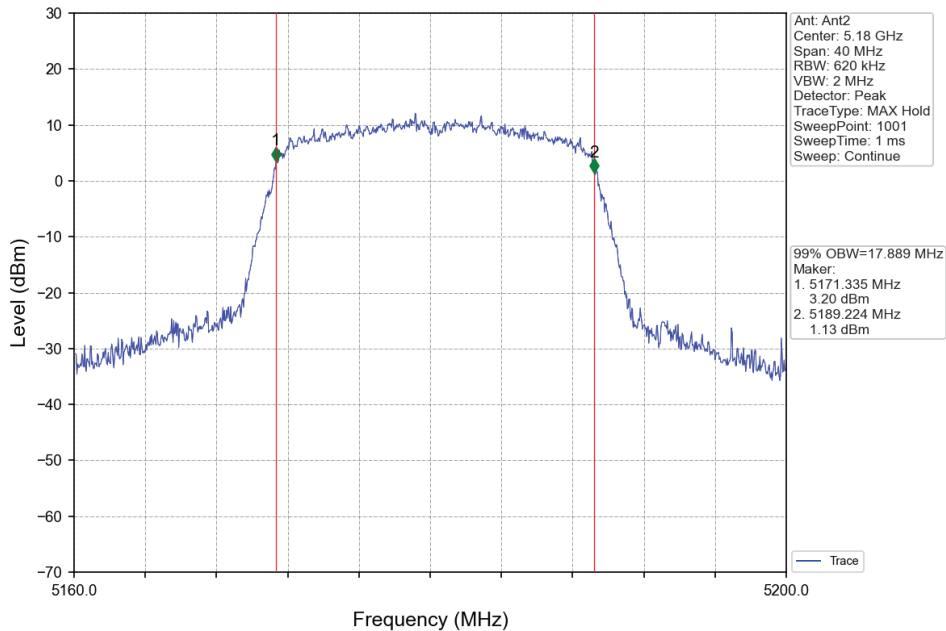
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



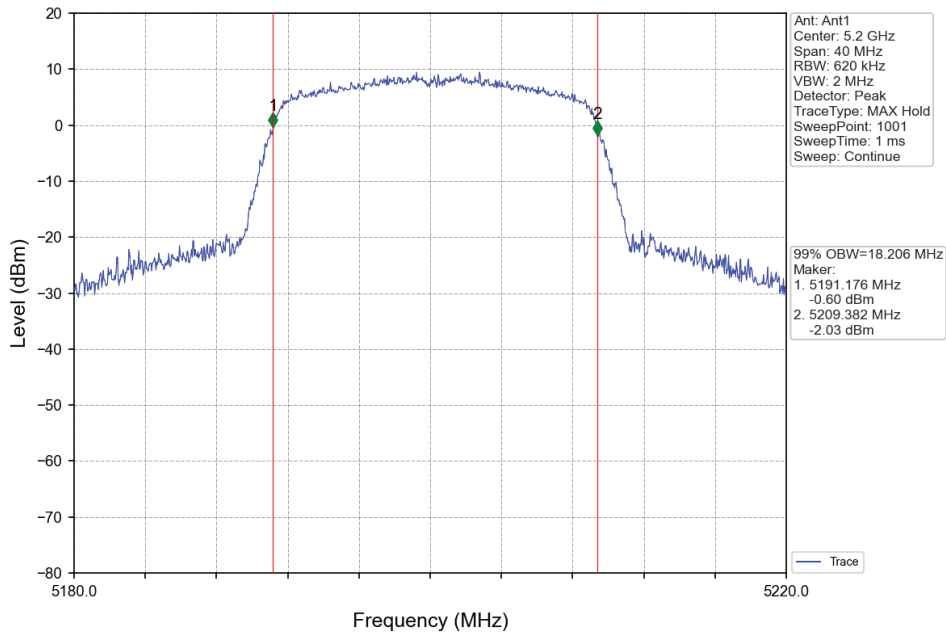
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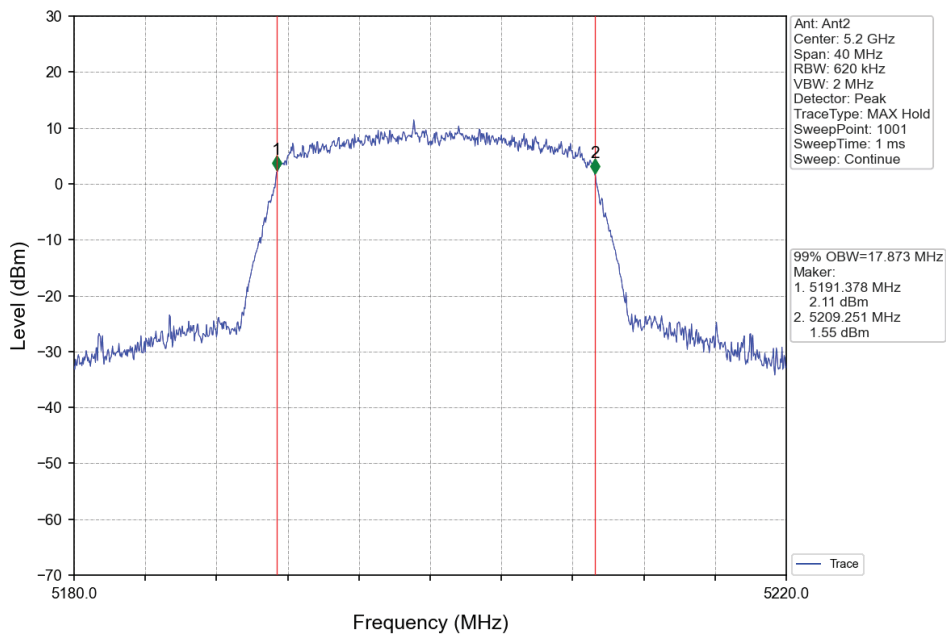
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



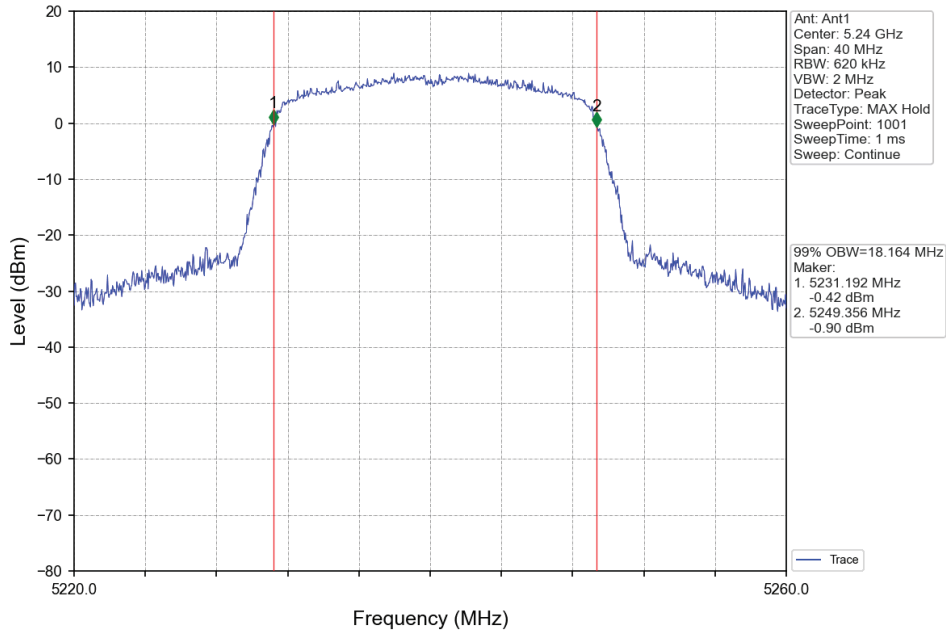
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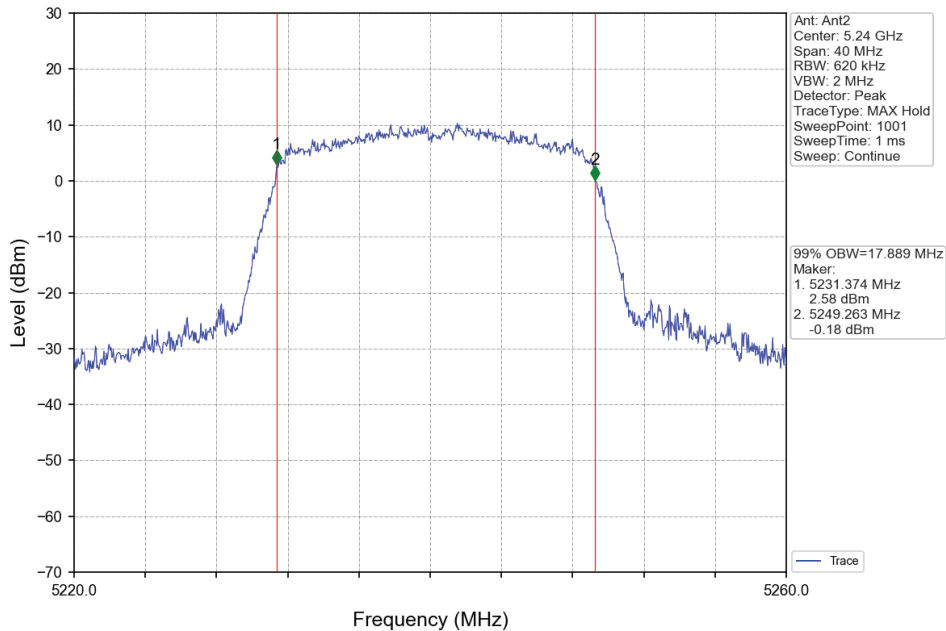
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



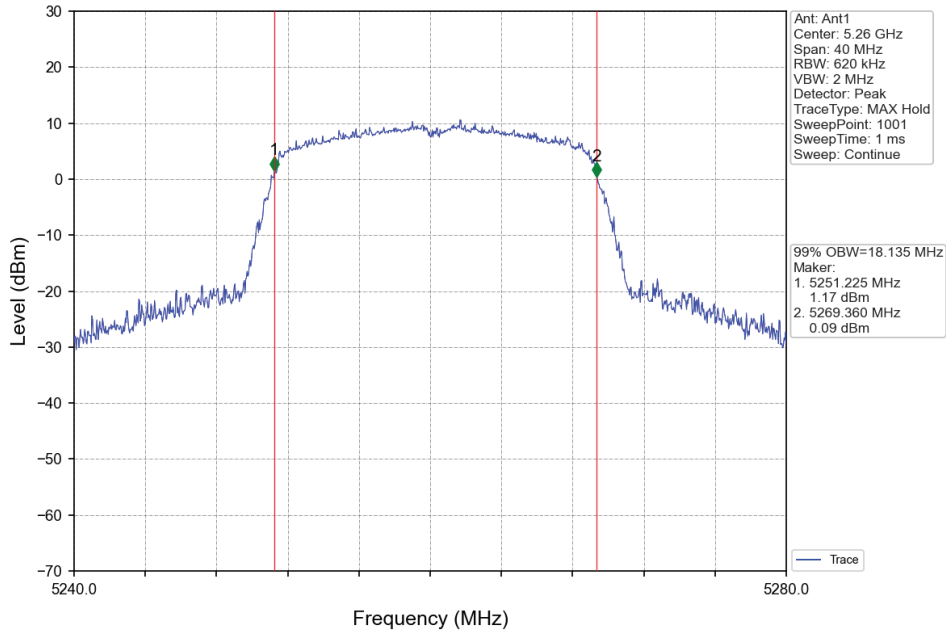
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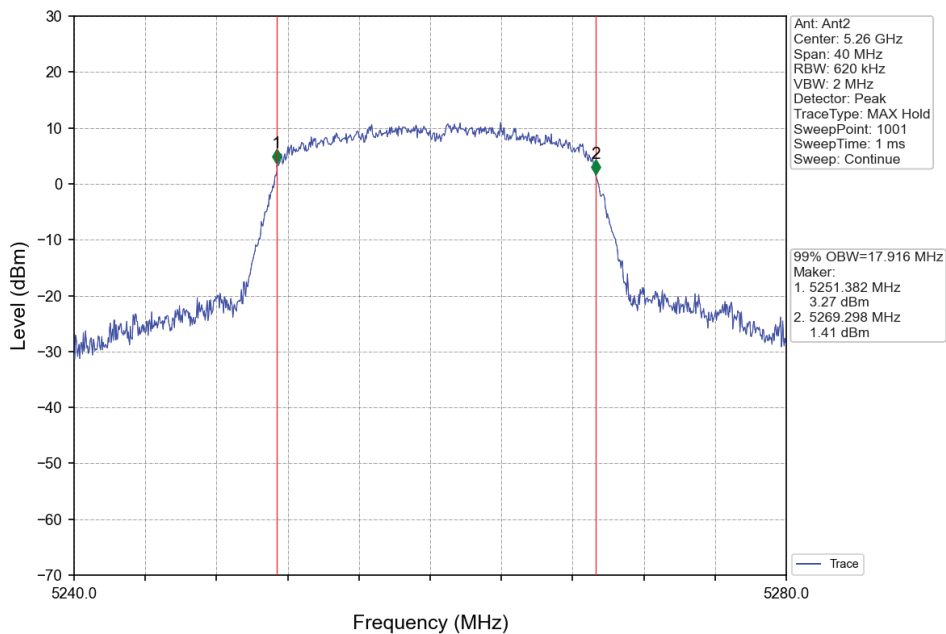
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



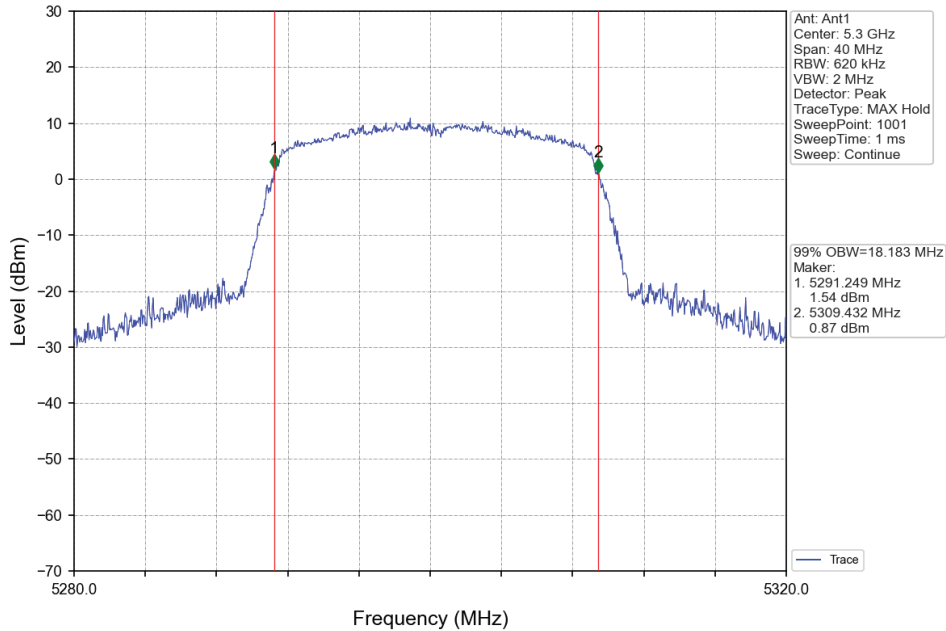
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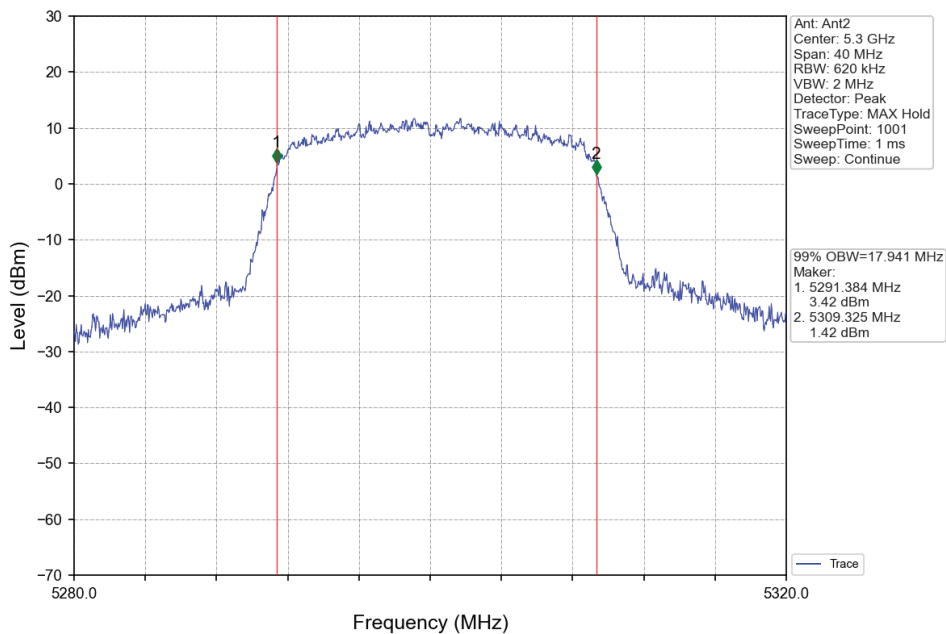
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



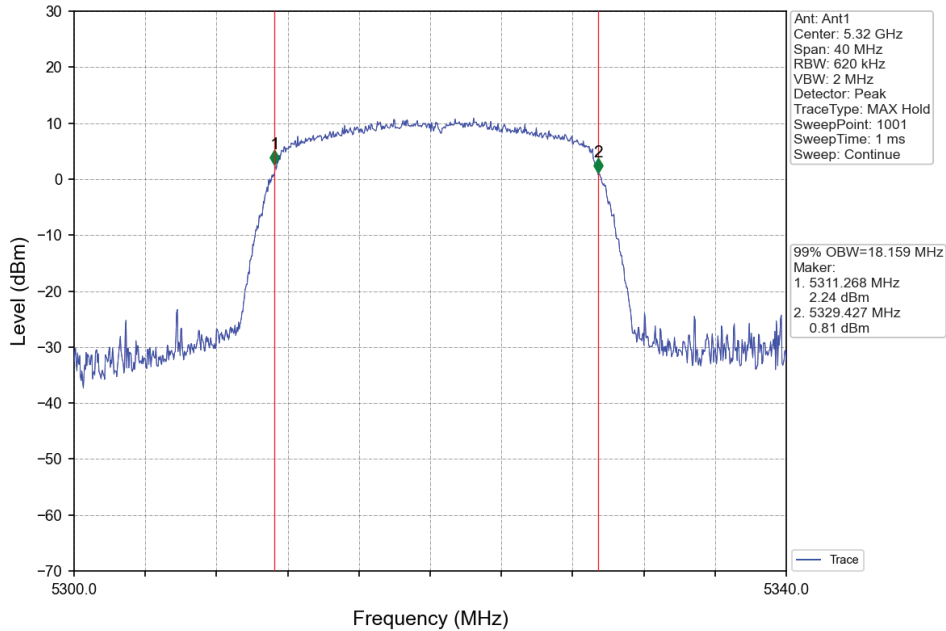
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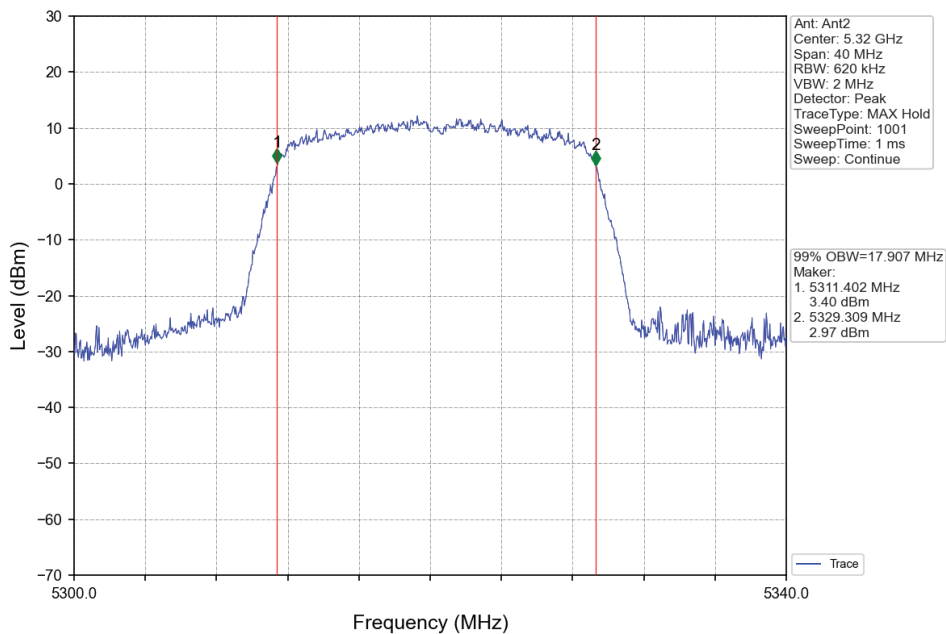
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



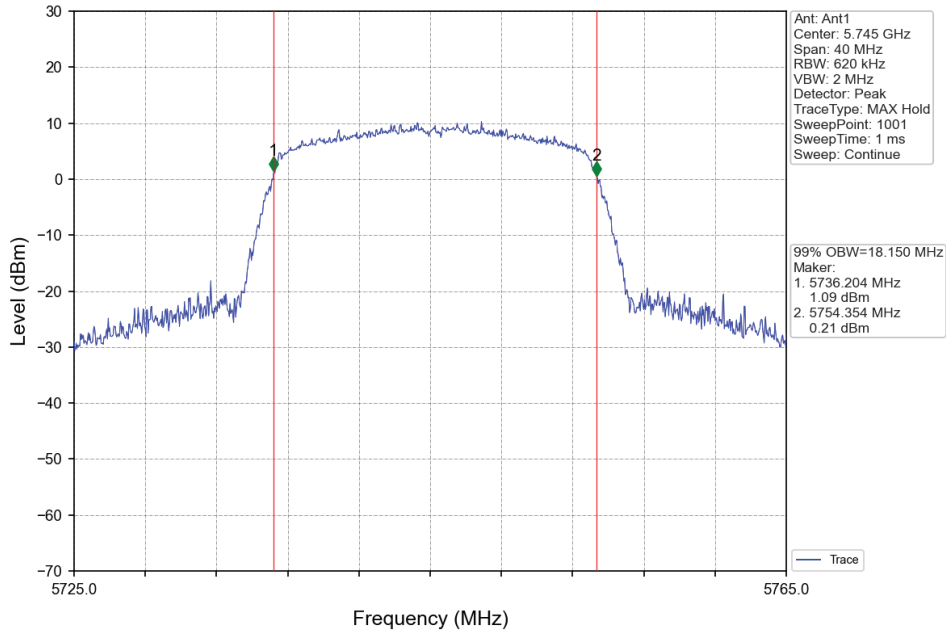
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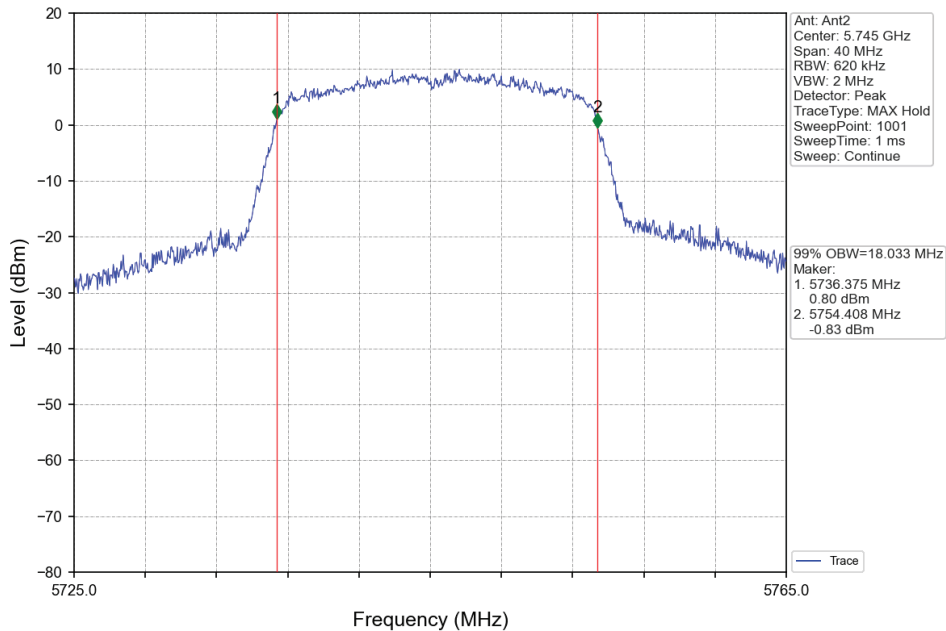
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



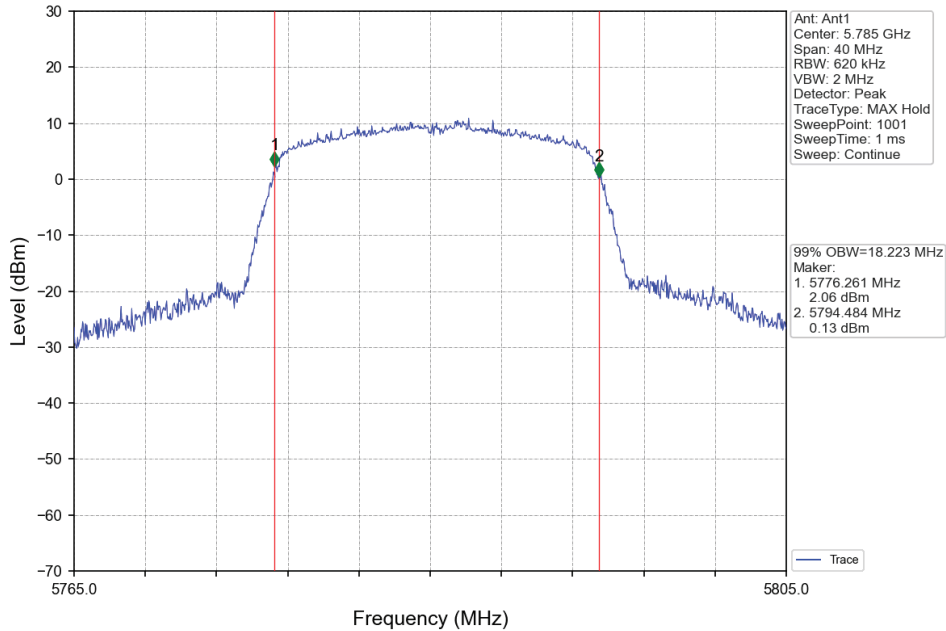
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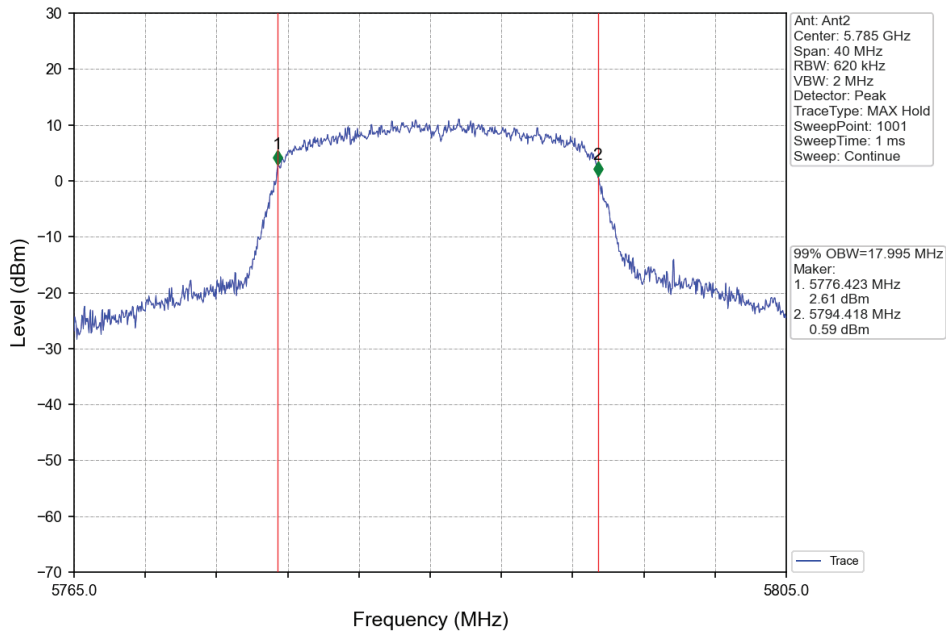
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



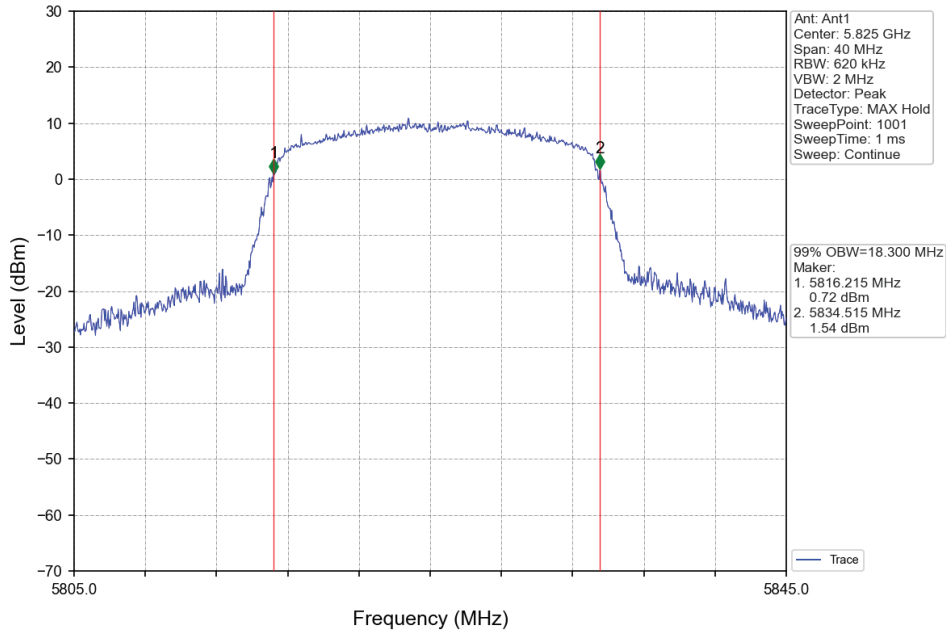
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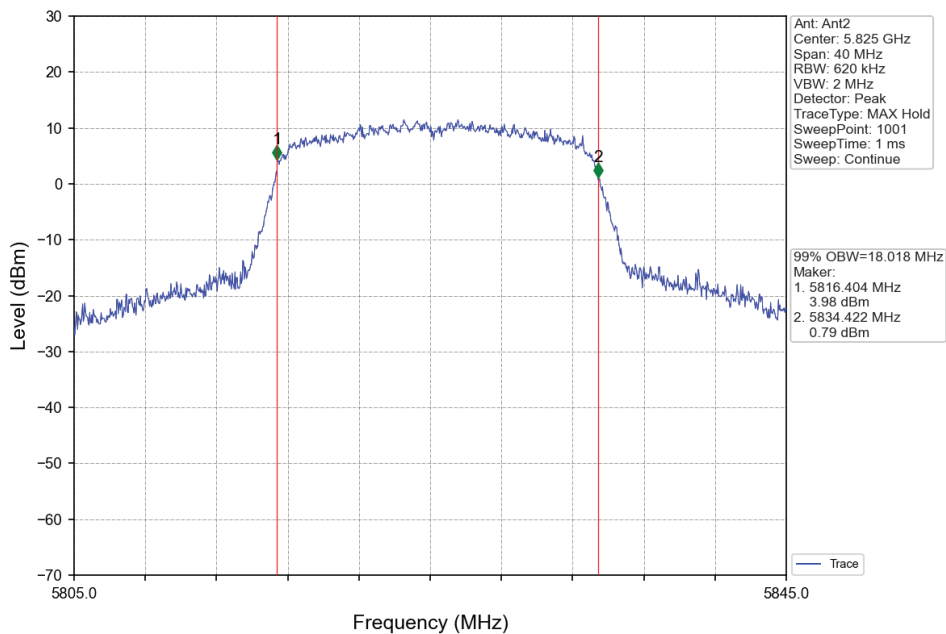
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



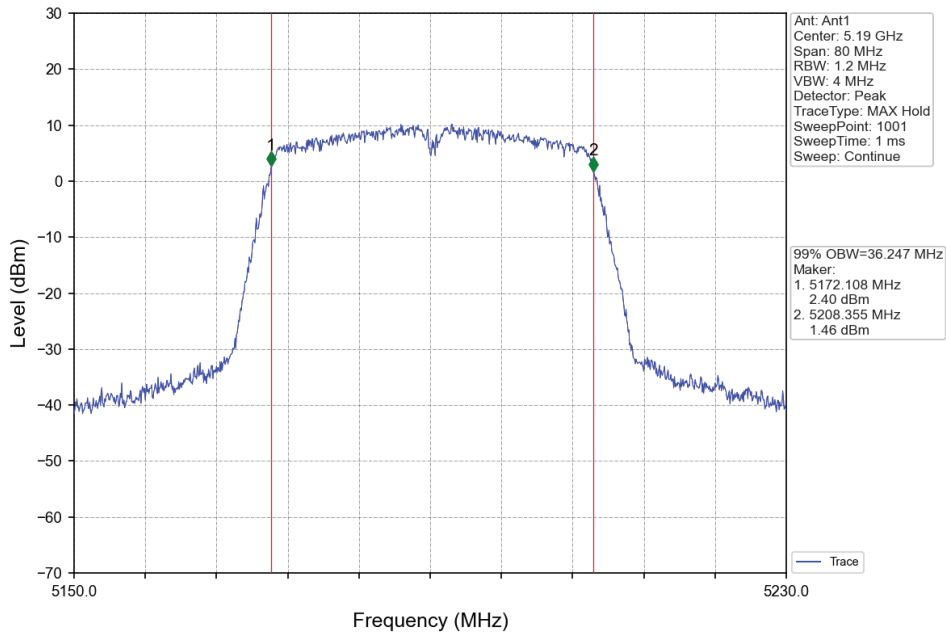
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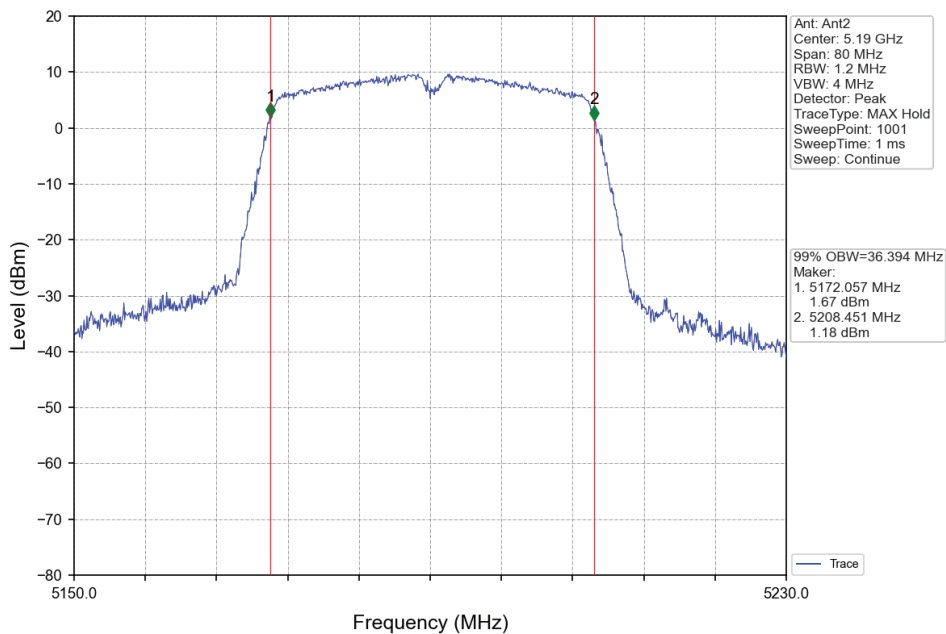
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



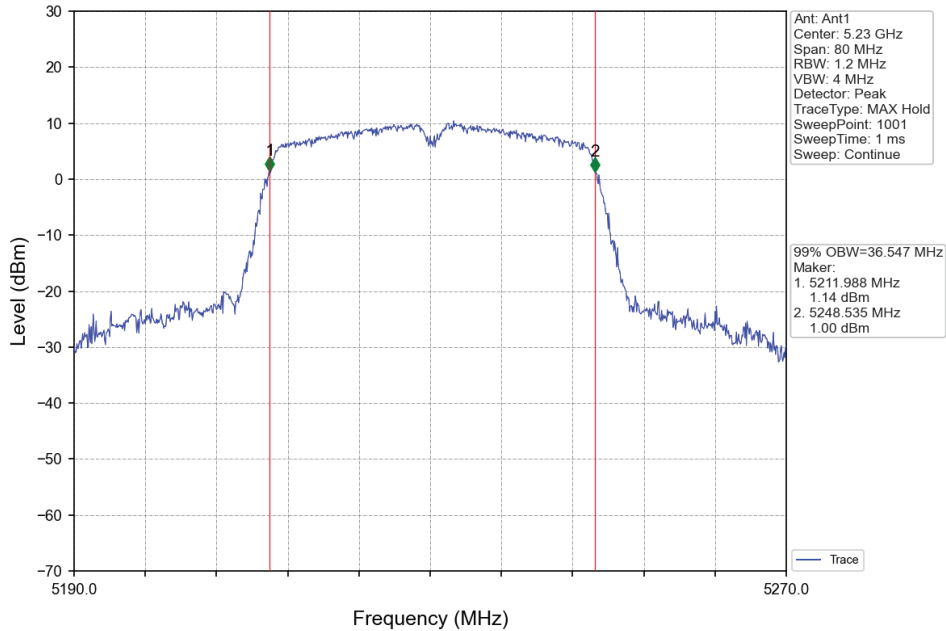
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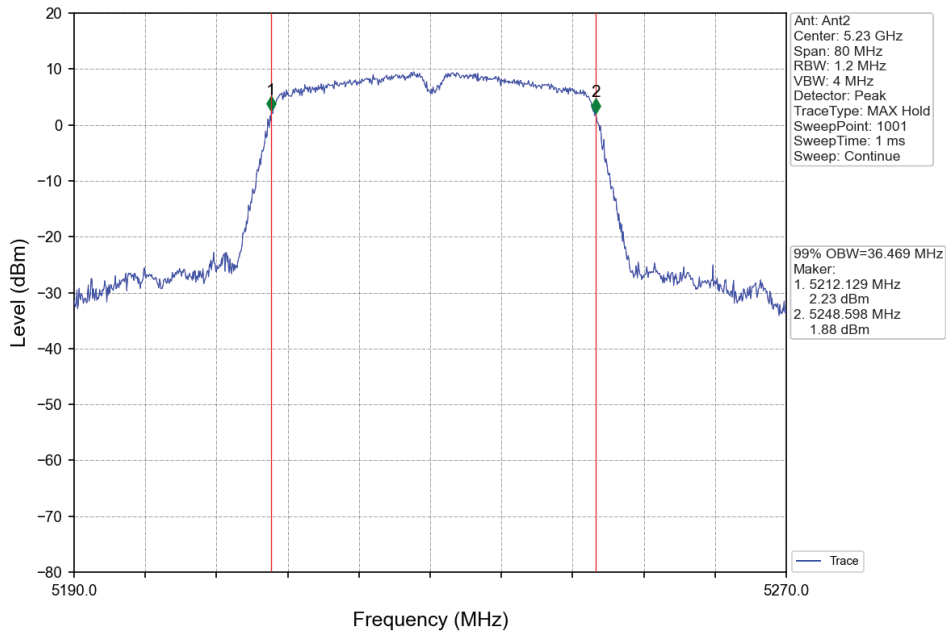
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



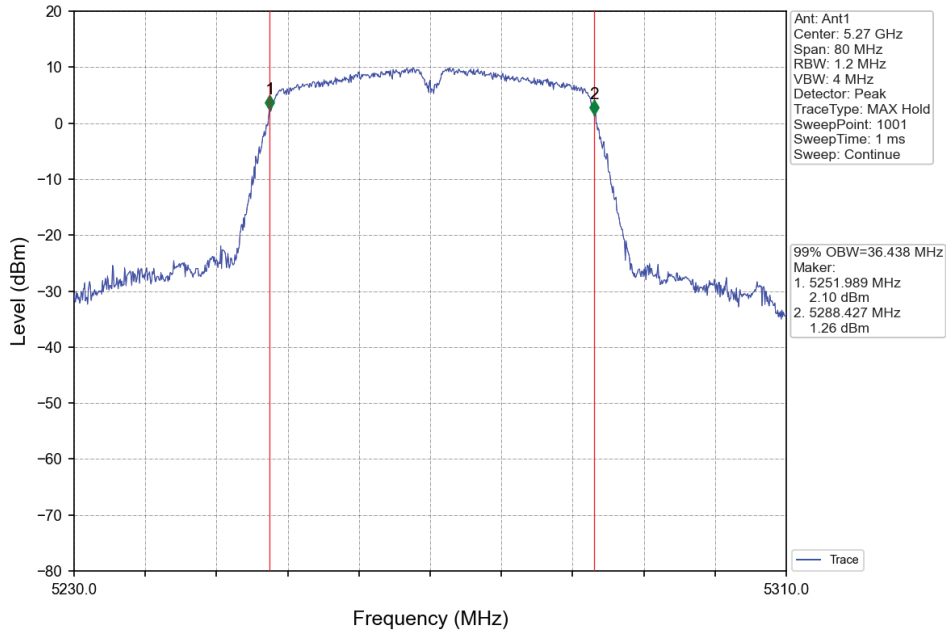
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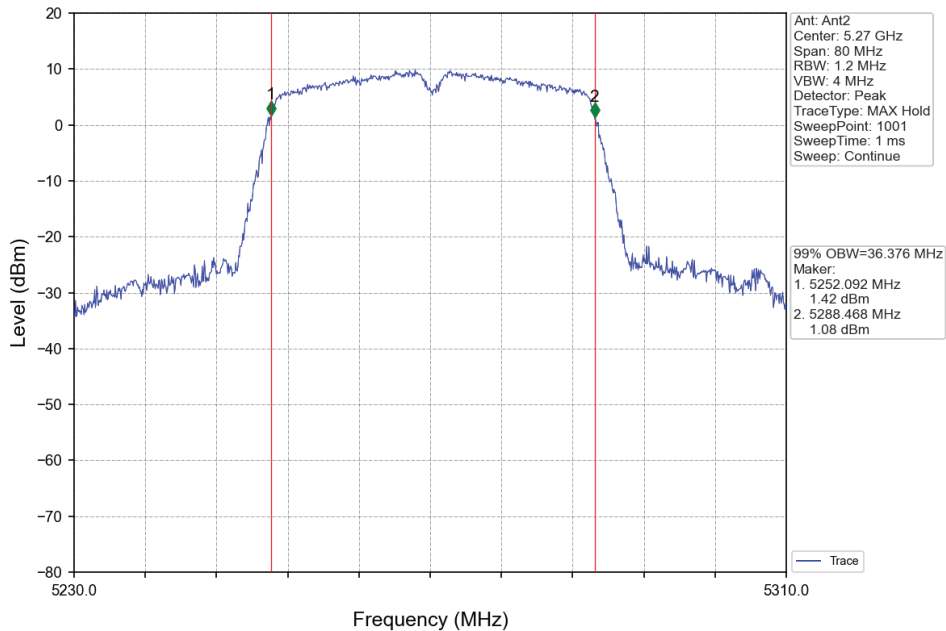
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



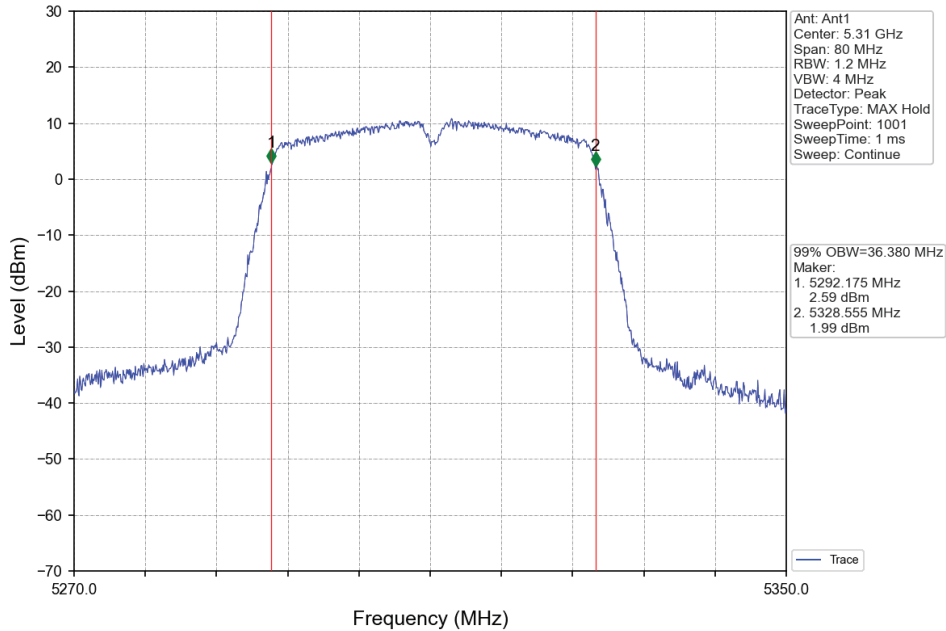
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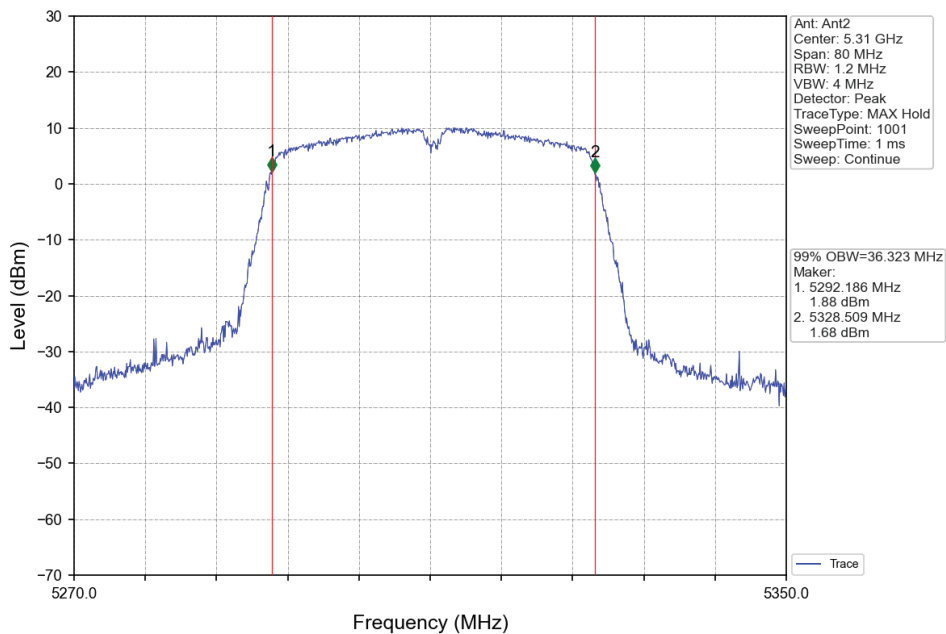
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802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



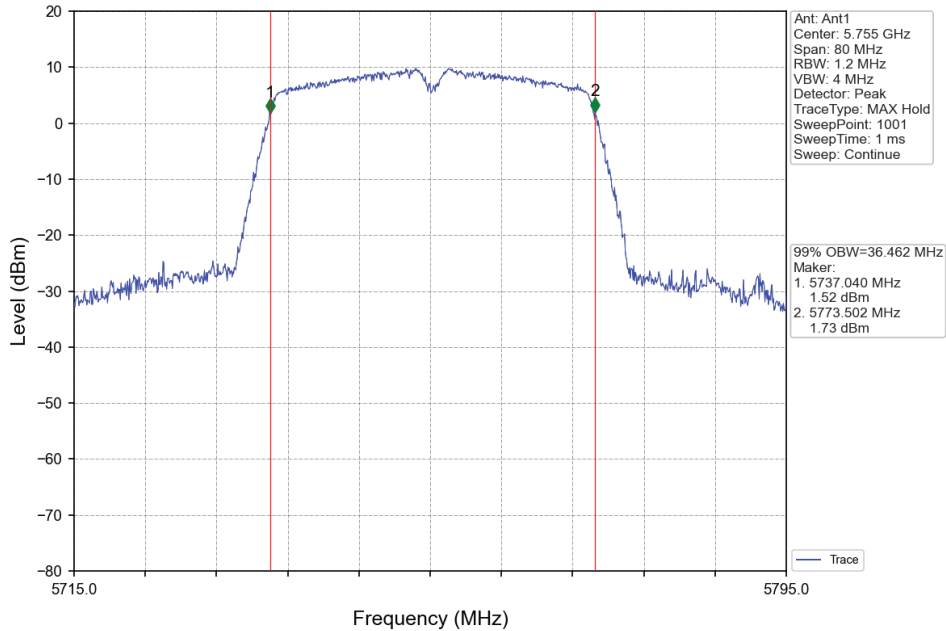
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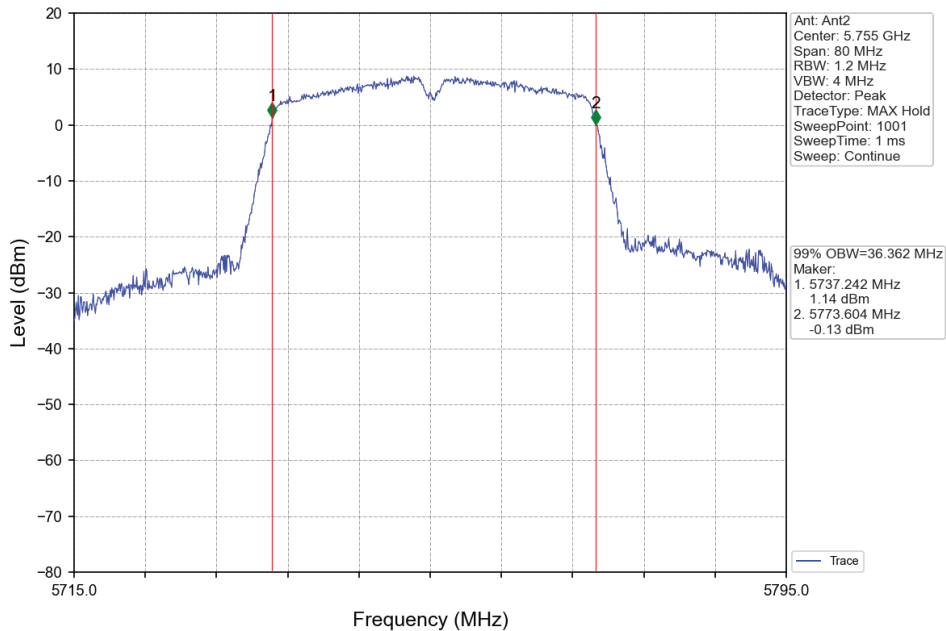
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



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