

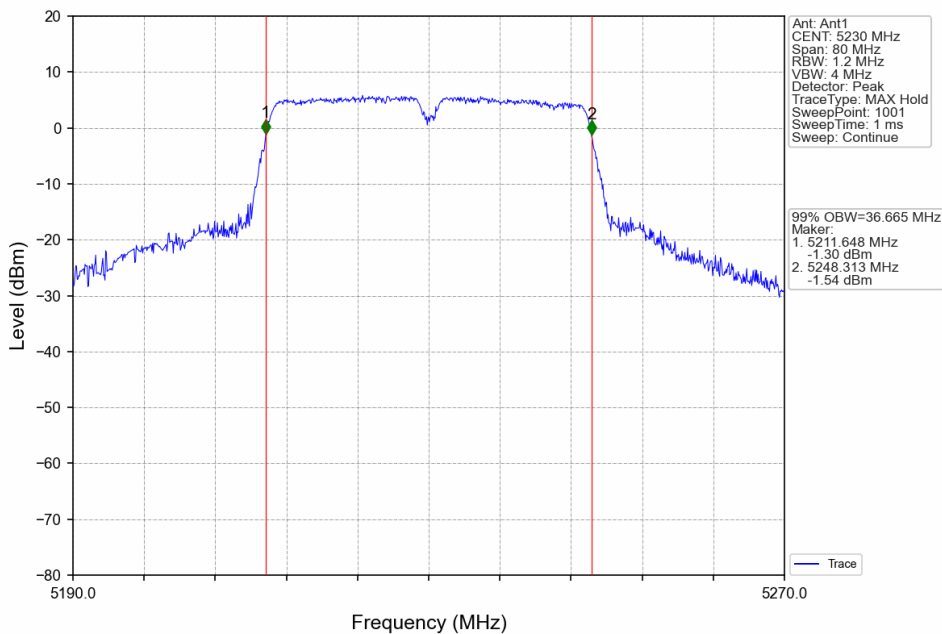
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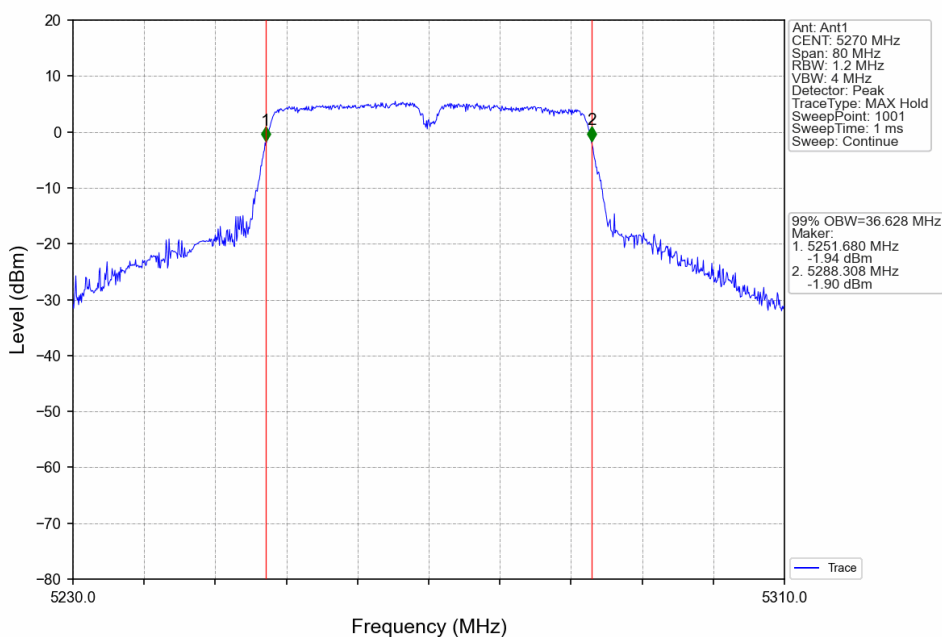
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



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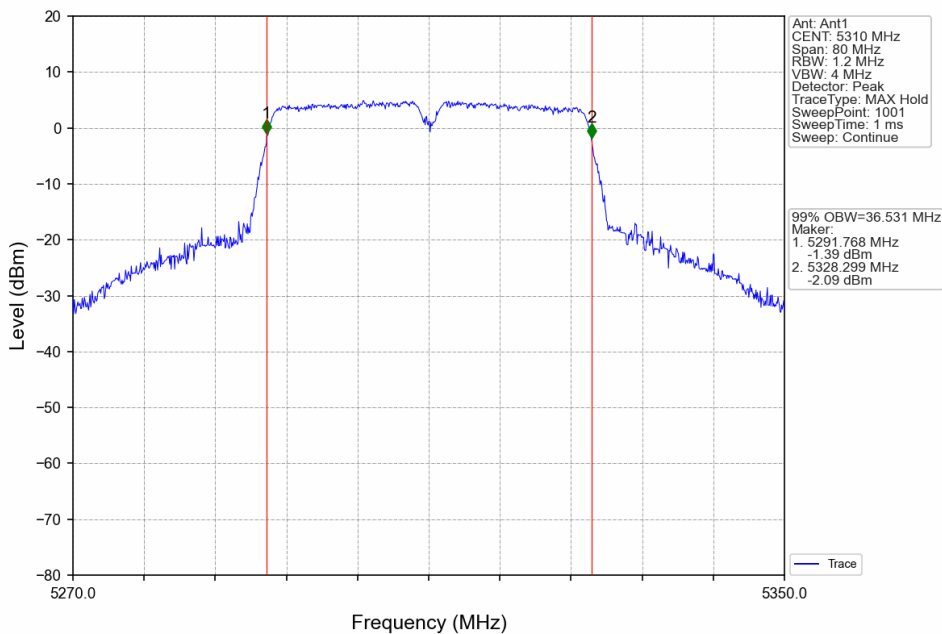
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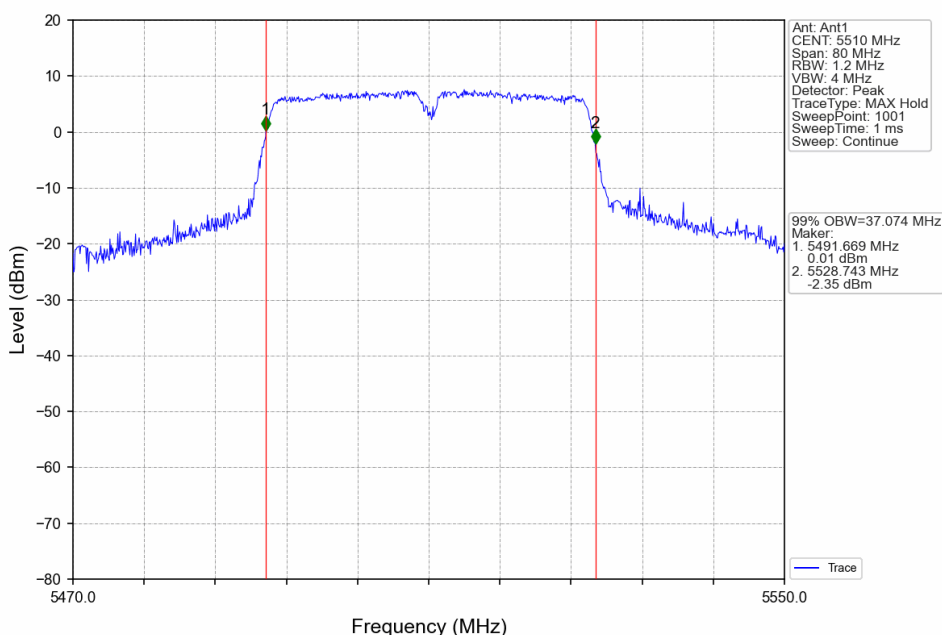
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### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



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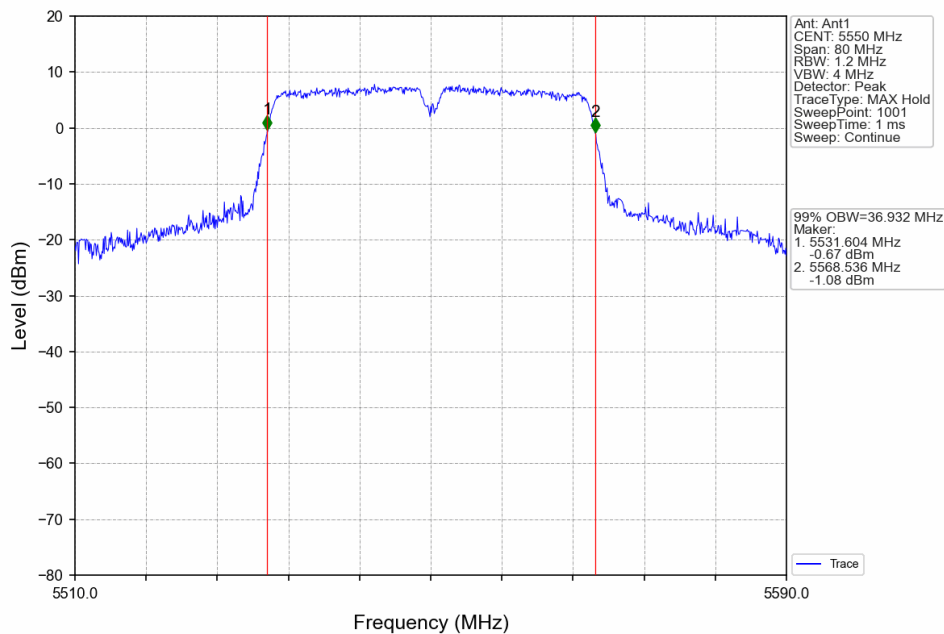
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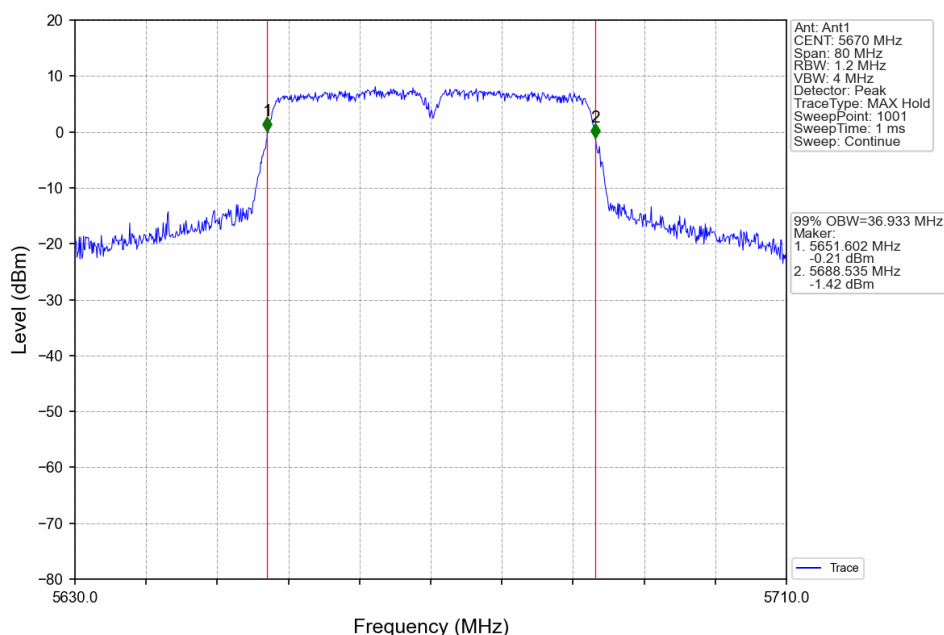
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



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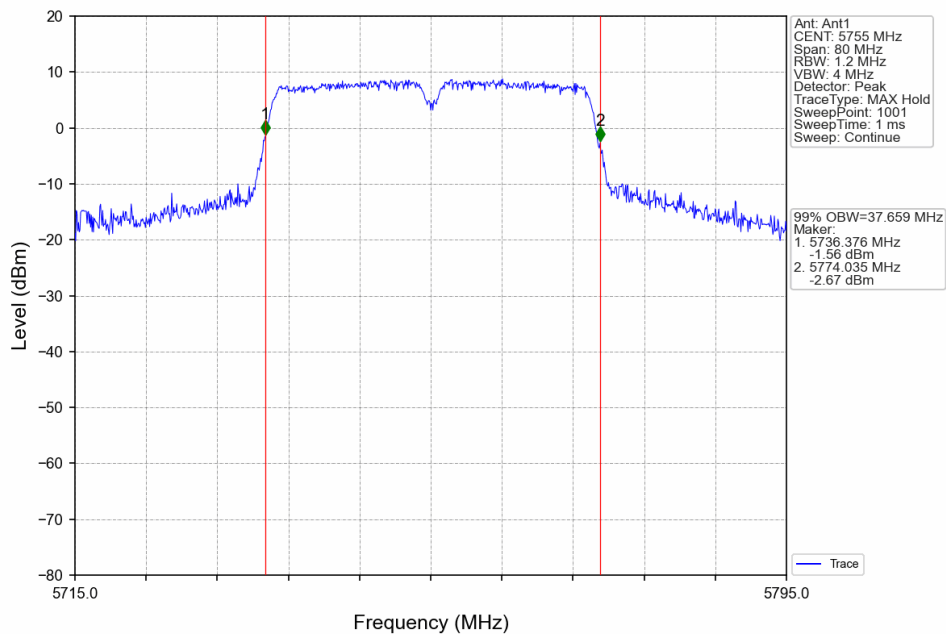
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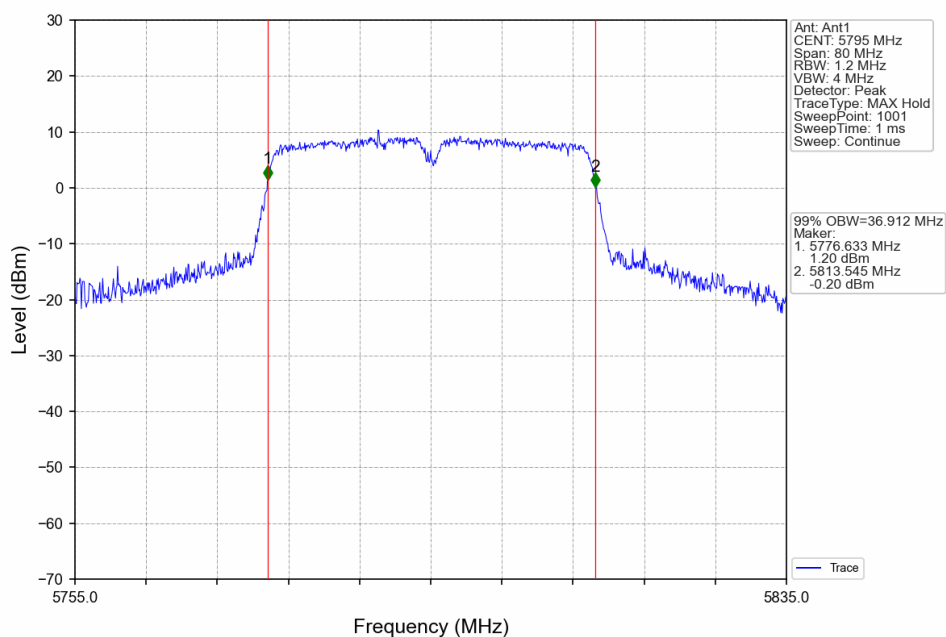
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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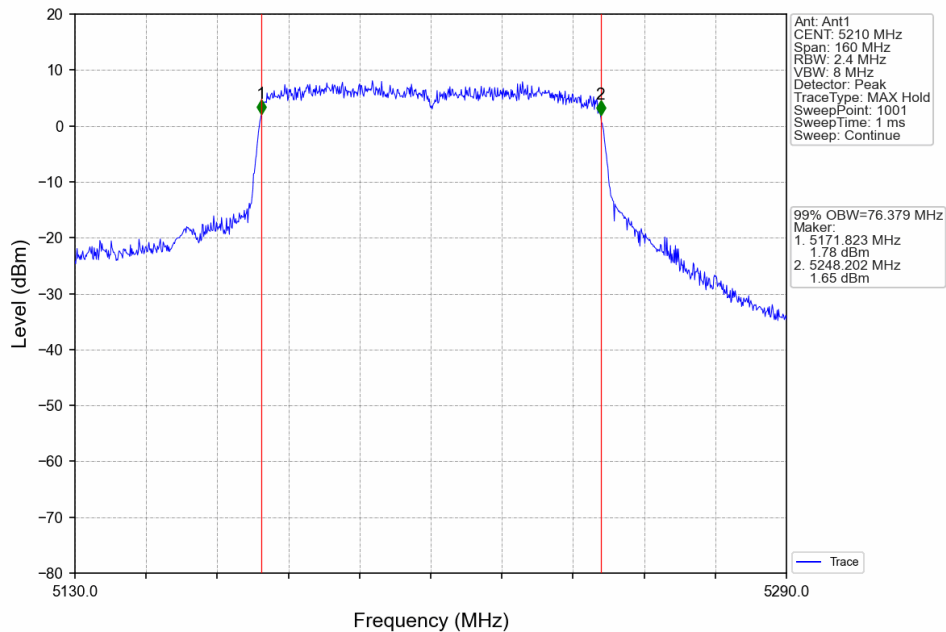
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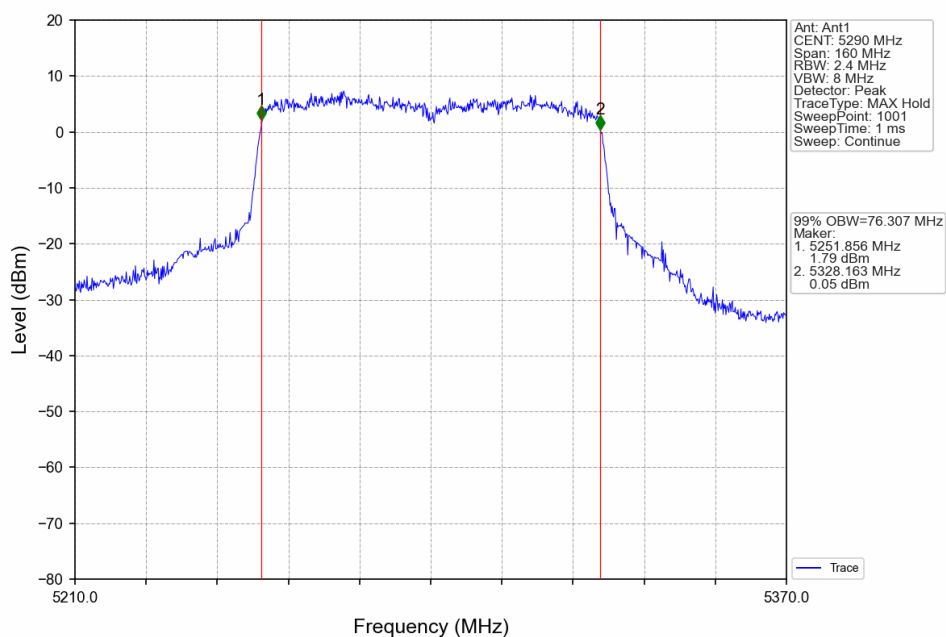
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



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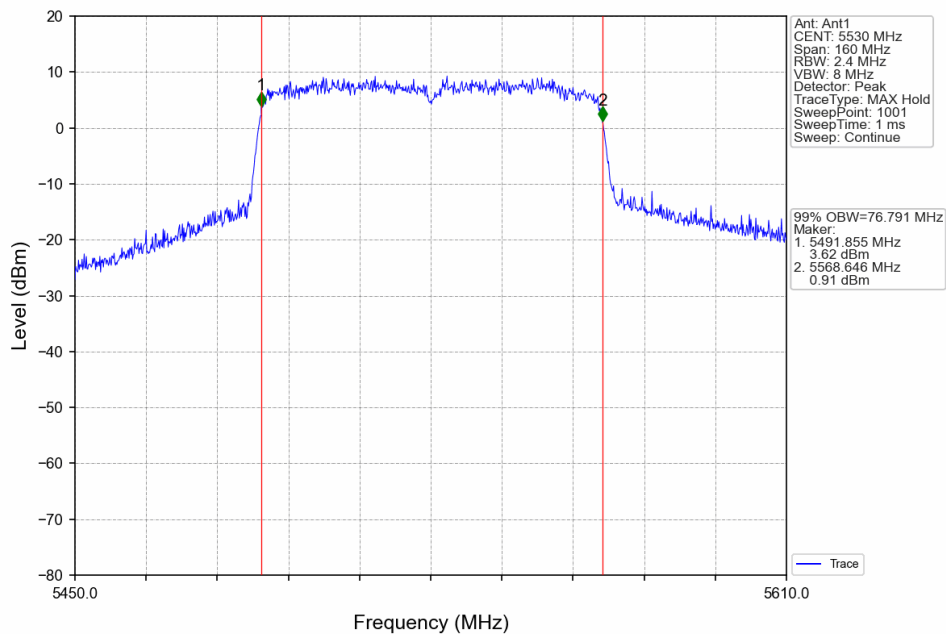
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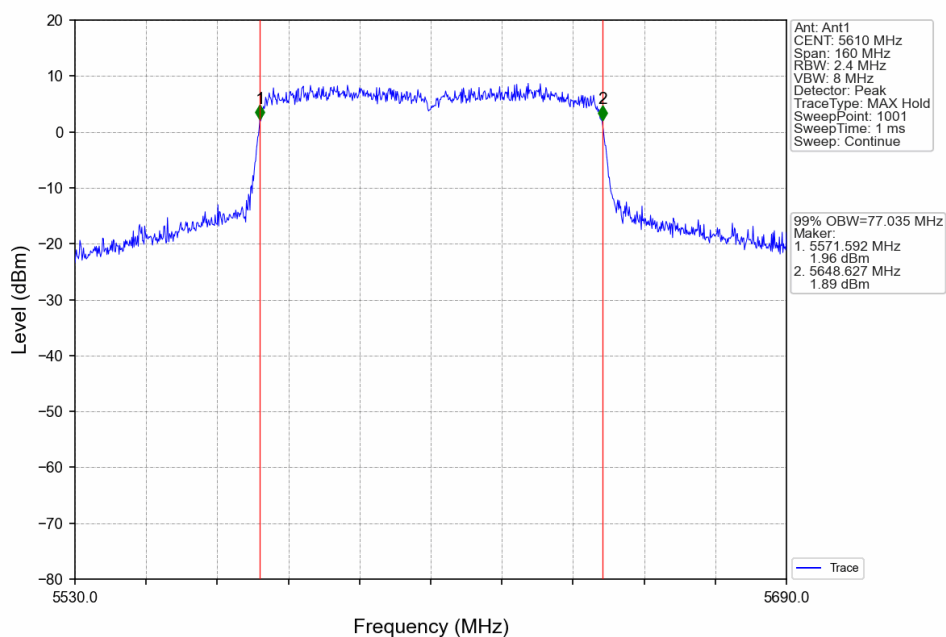
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### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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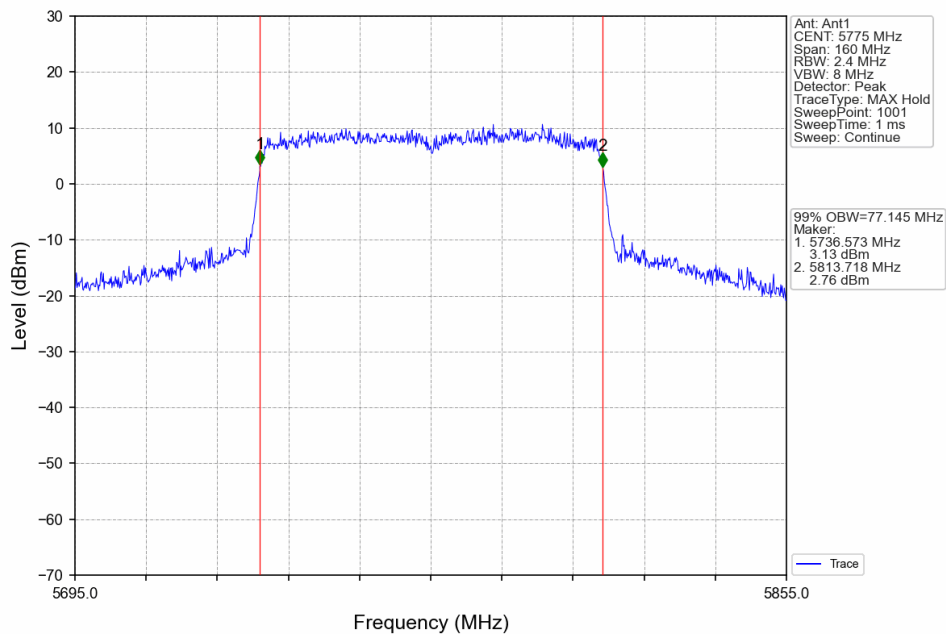
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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### 2.2 6dB BW

#### 2.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | 1   | 16.396              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.400              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.418              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 17.535              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.550              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.372              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 35.757              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.785              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 17.368              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.573              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.589              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 36.077              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 36.106              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 75.846              | $\geq 0.5$ | Pass    |

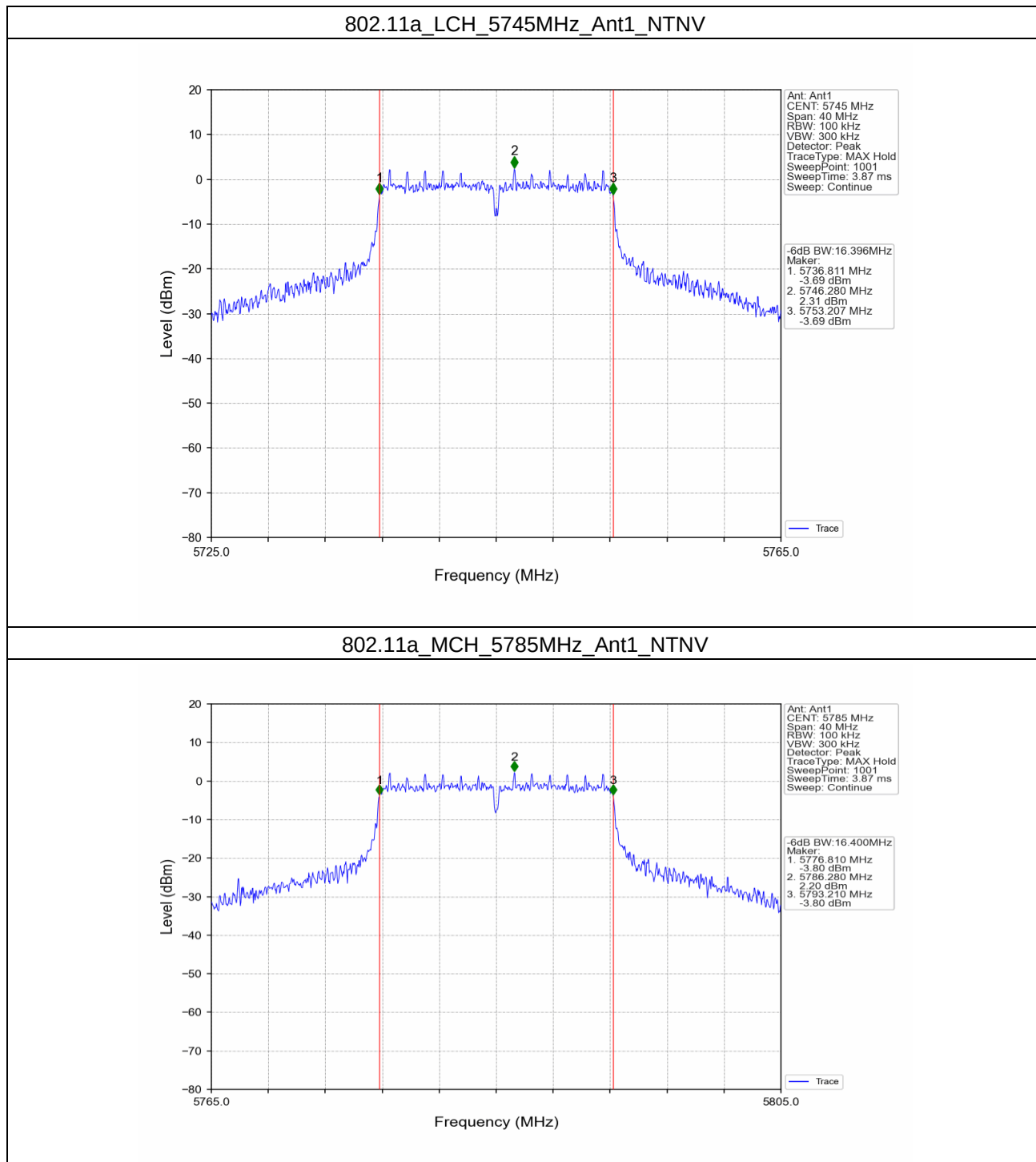


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### 2.2.2 Test Graph



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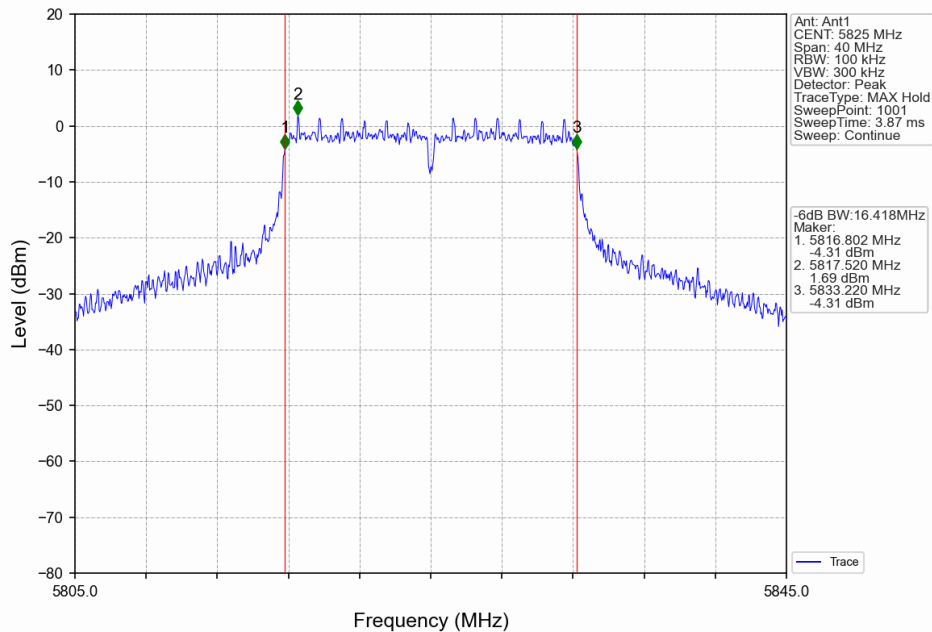
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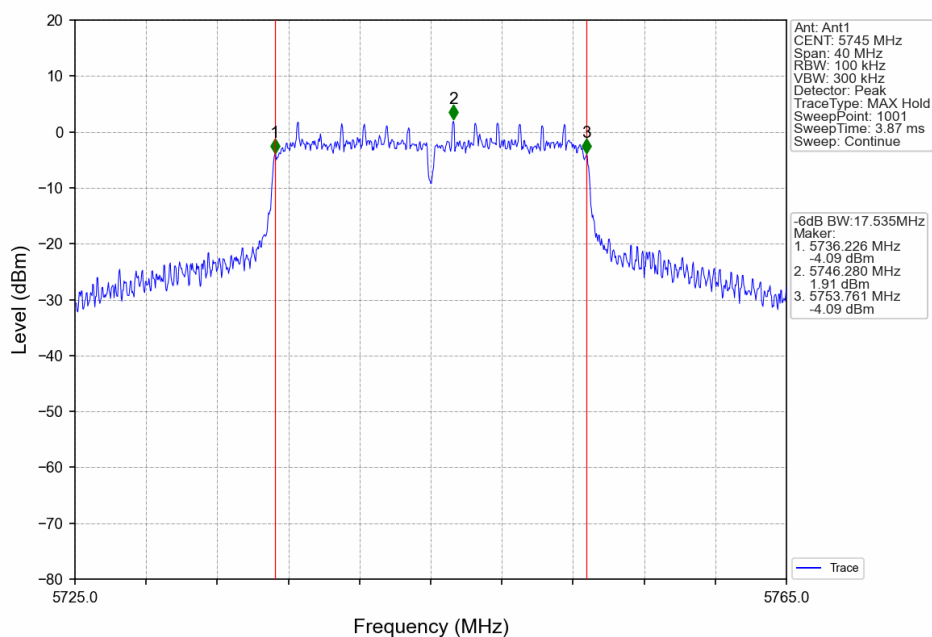
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



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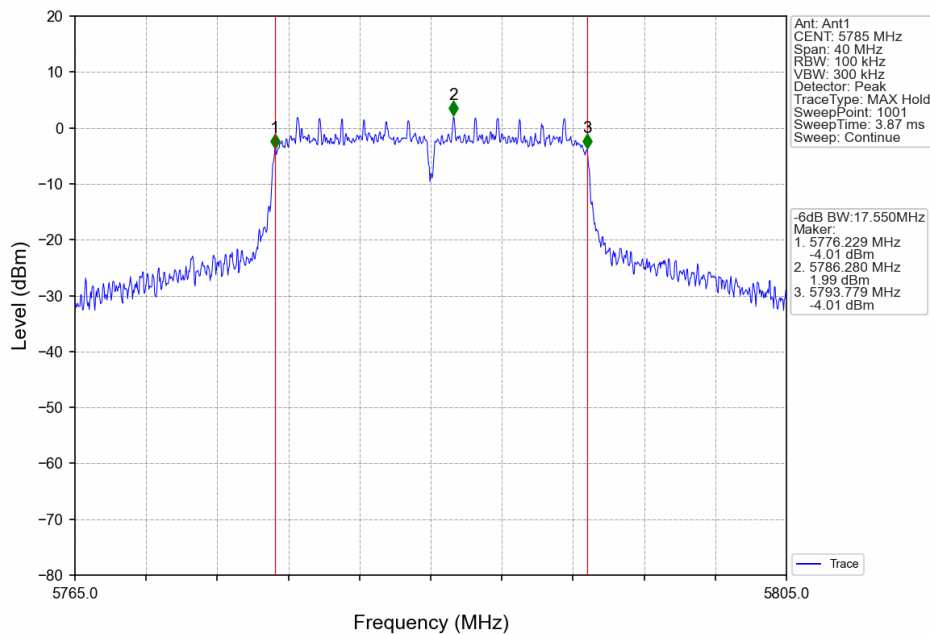
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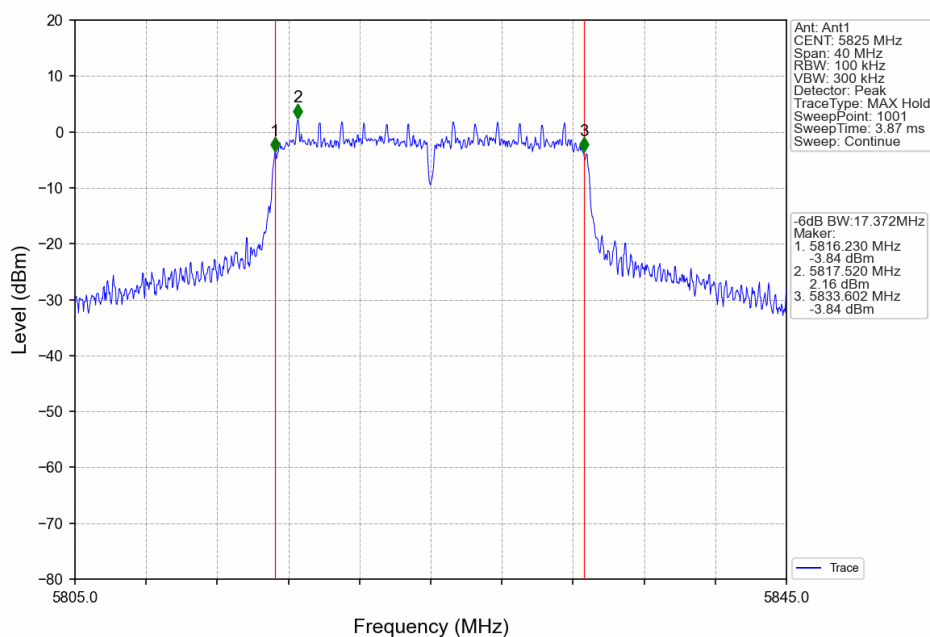
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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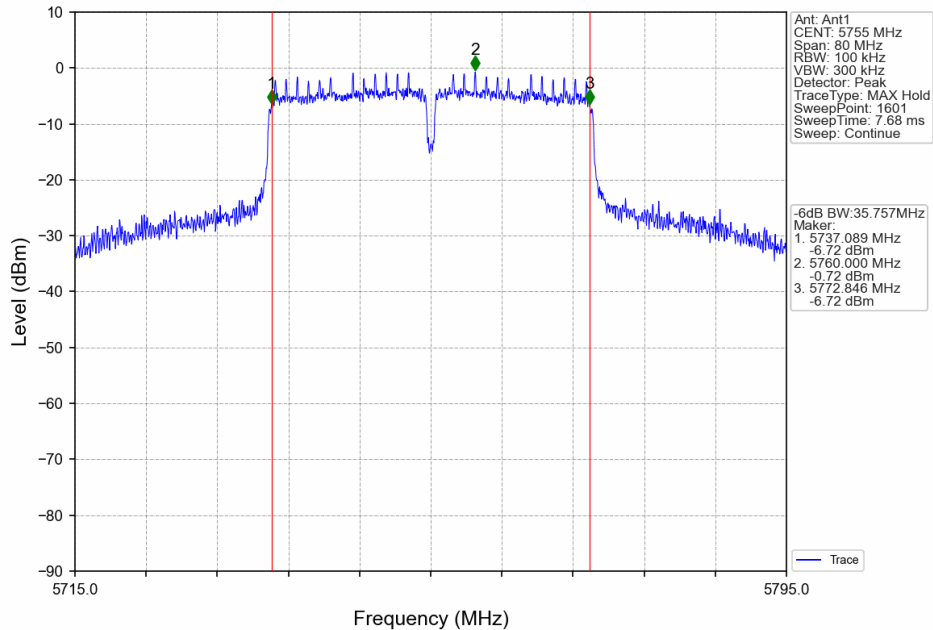
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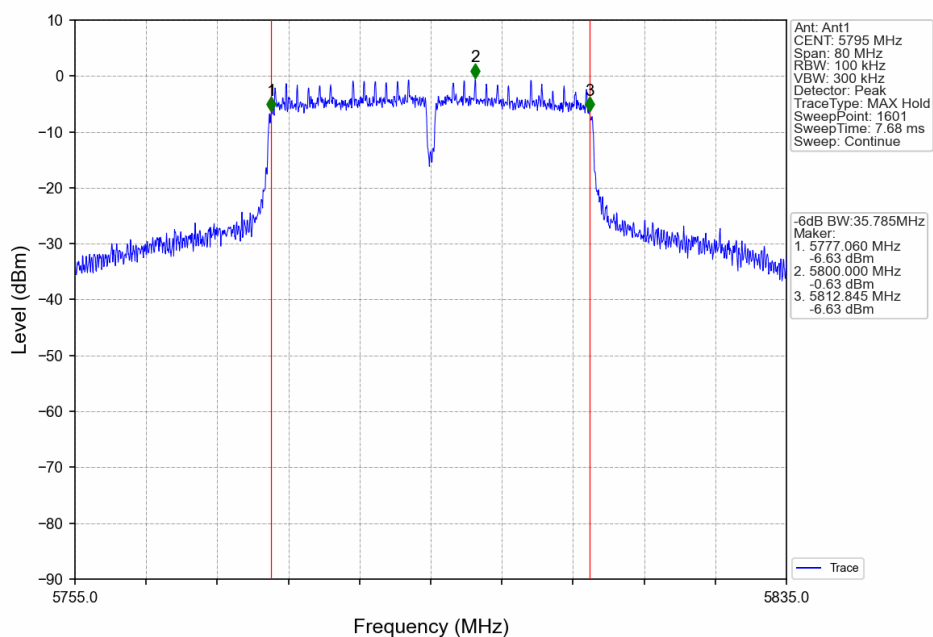
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### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



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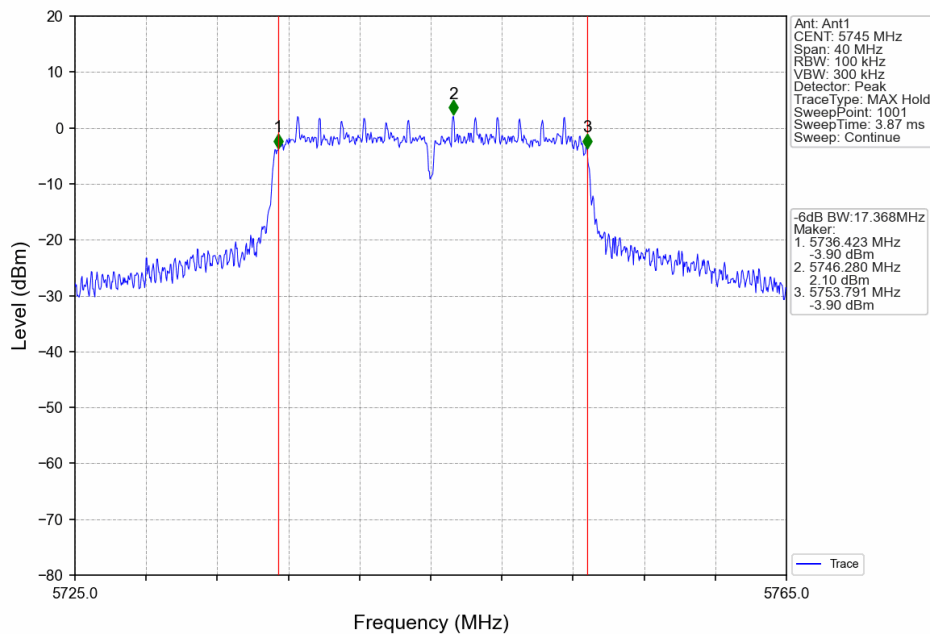
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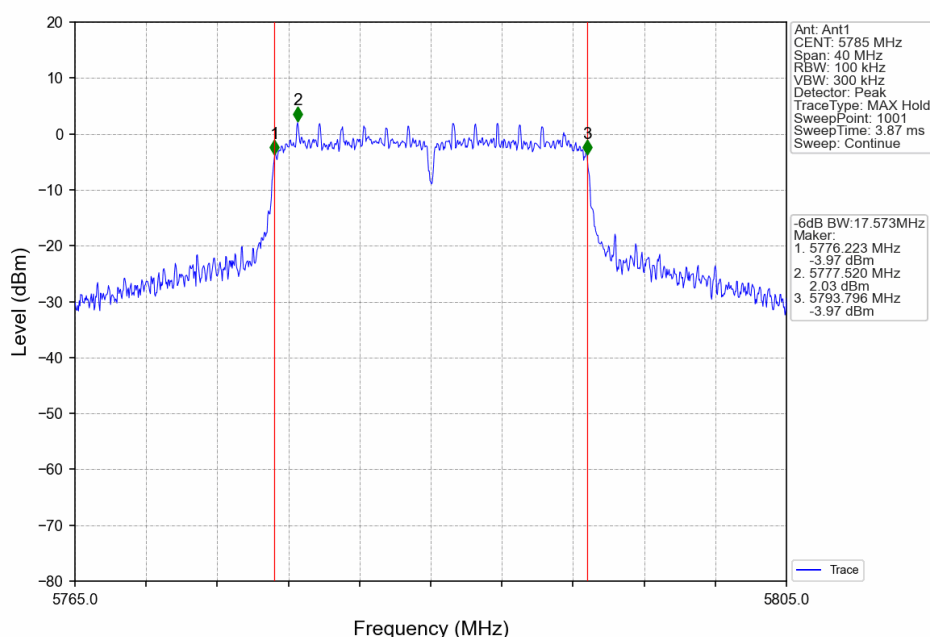
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### 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



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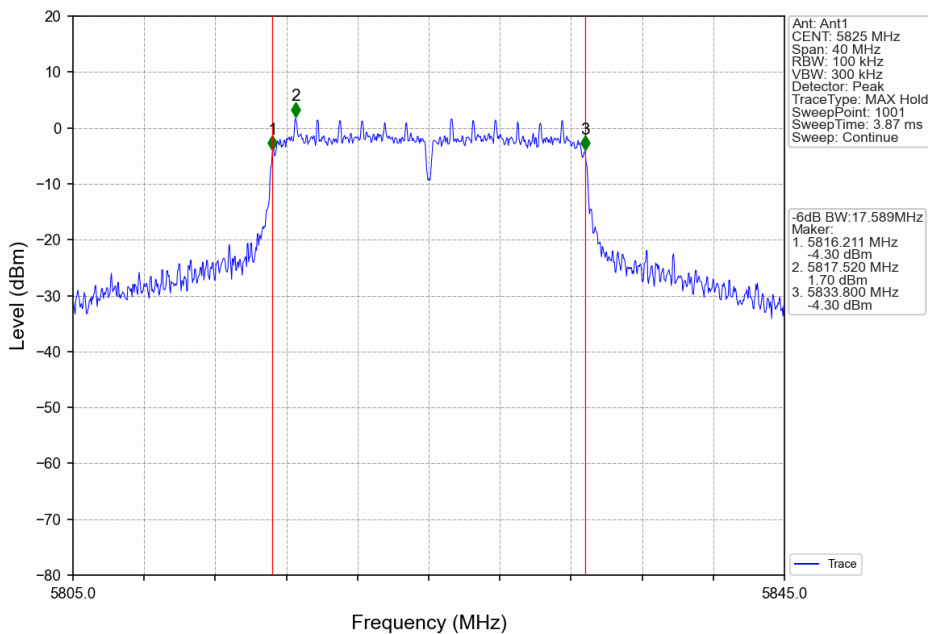
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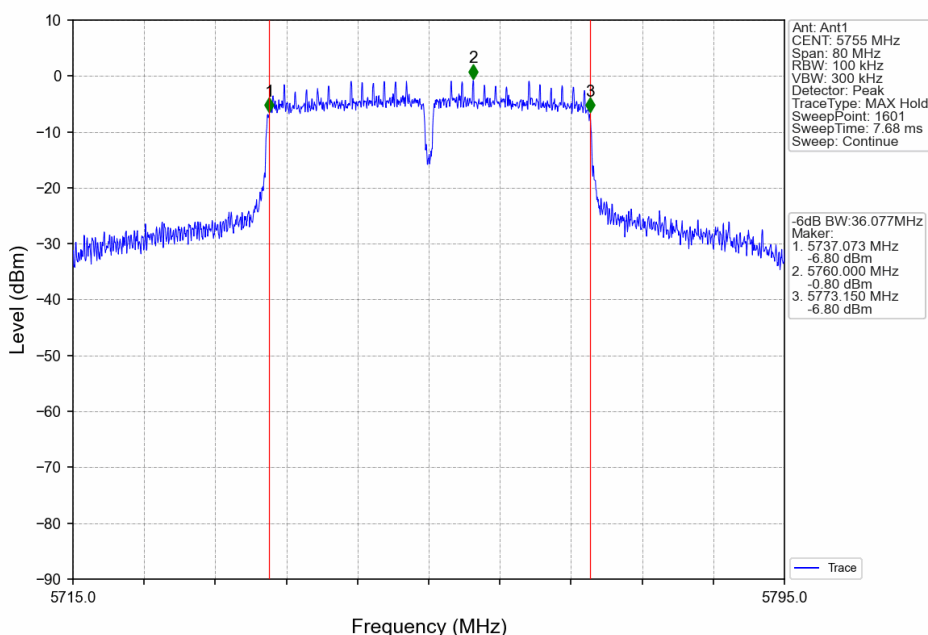
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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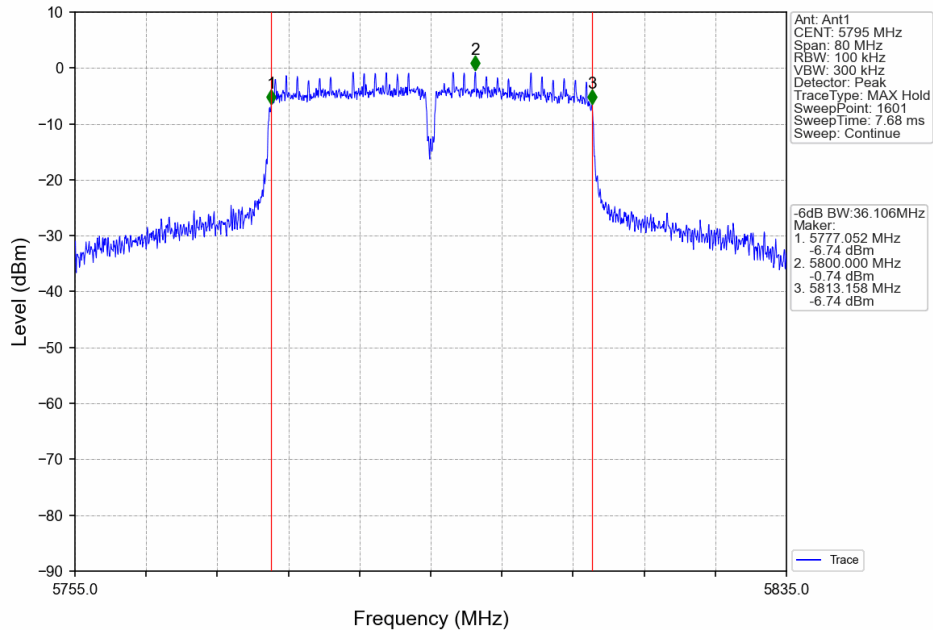
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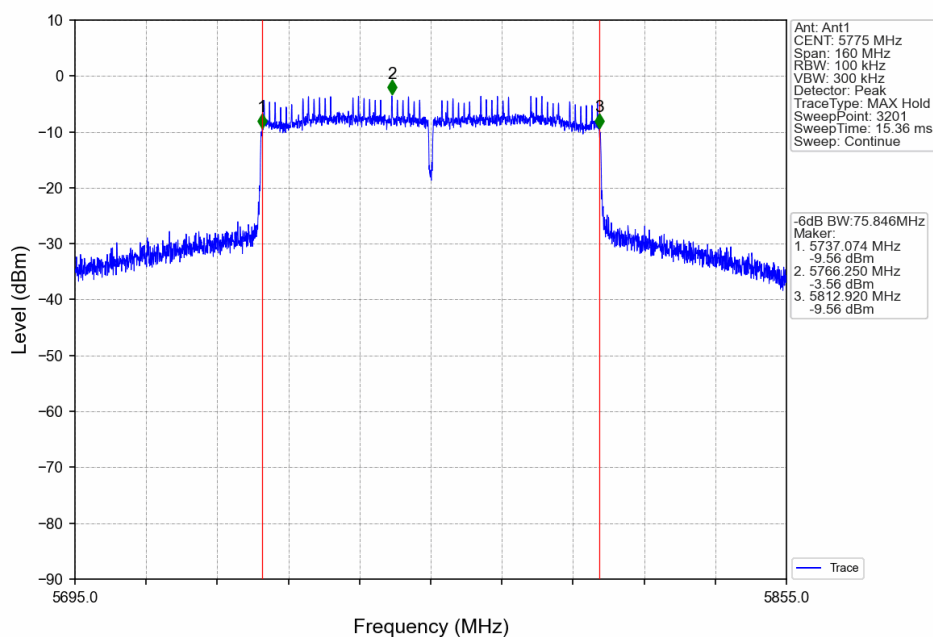
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### 802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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### 2.3 26dB BW

#### 2.3.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
|                  |         |                 |     | Result               |         |
| 802.11a          | SISO    | 5180            | 1   | 28.772               | Pass    |
|                  |         | 5200            | 1   | 27.931               | Pass    |
|                  |         | 5240            | 1   | 30.098               | Pass    |
|                  |         | 5260            | 1   | 27.422               | Pass    |
|                  |         | 5300            | 1   | 25.352               | Pass    |
|                  |         | 5320            | 1   | 27.198               | Pass    |
|                  |         | 5500            | 1   | 32.037               | Pass    |
|                  |         | 5580            | 1   | 31.377               | Pass    |
|                  |         | 5700            | 1   | 28.655               | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 27.768               | Pass    |
|                  |         | 5200            | 1   | 29.415               | Pass    |
|                  |         | 5240            | 1   | 26.674               | Pass    |
|                  |         | 5260            | 1   | 28.087               | Pass    |
|                  |         | 5300            | 1   | 30.021               | Pass    |
|                  |         | 5320            | 1   | 27.428               | Pass    |
|                  |         | 5500            | 1   | 32.596               | Pass    |
|                  |         | 5580            | 1   | 31.100               | Pass    |
|                  |         | 5700            | 1   | 34.124               | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 51.264               | Pass    |
|                  |         | 5230            | 1   | 47.155               | Pass    |
|                  |         | 5270            | 1   | 46.271               | Pass    |
|                  |         | 5310            | 1   | 45.151               | Pass    |
|                  |         | 5510            | 1   | 63.128               | Pass    |
|                  |         | 5550            | 1   | 61.581               | Pass    |
|                  |         | 5670            | 1   | 61.811               | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 28.514               | Pass    |
|                  |         | 5200            | 1   | 29.534               | Pass    |
|                  |         | 5240            | 1   | 28.622               | Pass    |
|                  |         | 5260            | 1   | 31.204               | Pass    |
|                  |         | 5300            | 1   | 30.692               | Pass    |
|                  |         | 5320            | 1   | 25.807               | Pass    |
|                  |         | 5500            | 1   | 31.726               | Pass    |



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|                     |      |      |   |         |      |
|---------------------|------|------|---|---------|------|
|                     |      | 5580 | 1 | 30.688  | Pass |
|                     |      | 5700 | 1 | 34.182  | Pass |
| 802.11ac<br>(VHT40) | SISO | 5190 | 1 | 51.946  | Pass |
|                     |      | 5230 | 1 | 50.391  | Pass |
|                     |      | 5270 | 1 | 50.147  | Pass |
|                     |      | 5310 | 1 | 47.311  | Pass |
|                     |      | 5510 | 1 | 65.315  | Pass |
|                     |      | 5550 | 1 | 62.350  | Pass |
|                     |      | 5670 | 1 | 65.654  | Pass |
| 802.11ac<br>(VHT80) | SISO | 5210 | 1 | 99.249  | Pass |
|                     |      | 5290 | 1 | 84.981  | Pass |
|                     |      | 5530 | 1 | 126.843 | Pass |
|                     |      | 5610 | 1 | 143.028 | Pass |



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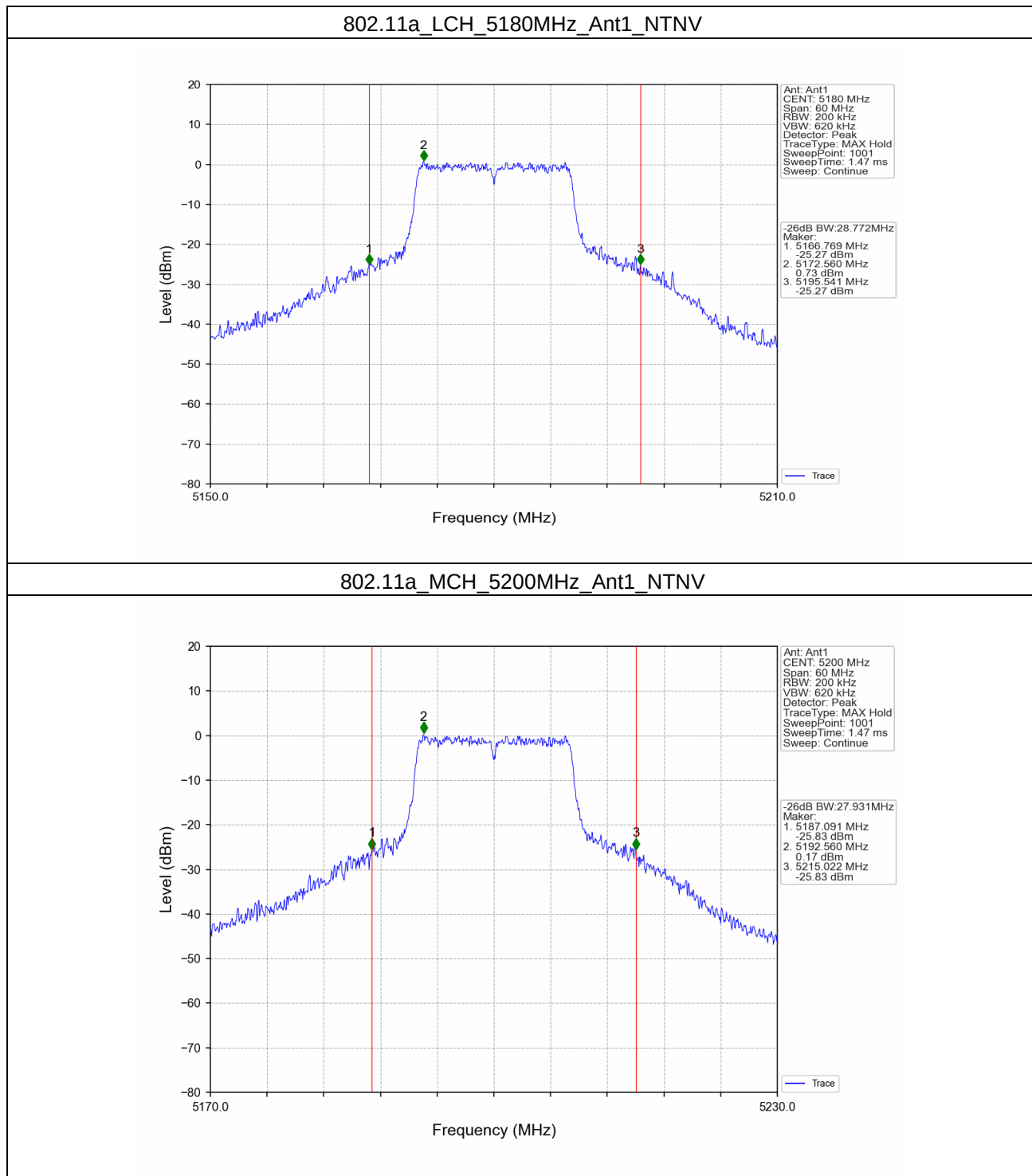
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### 2.3.2 Test Graph



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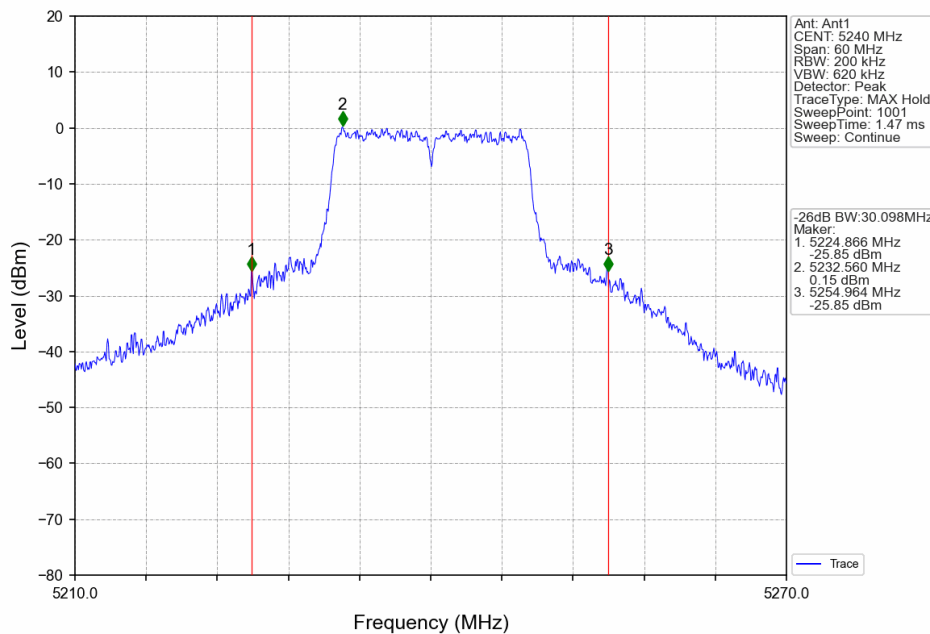
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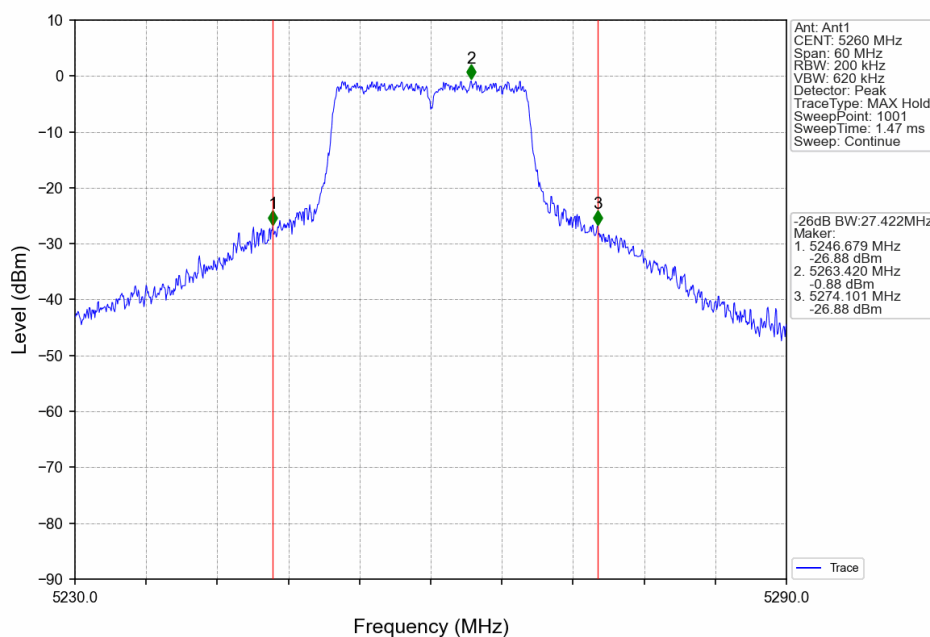
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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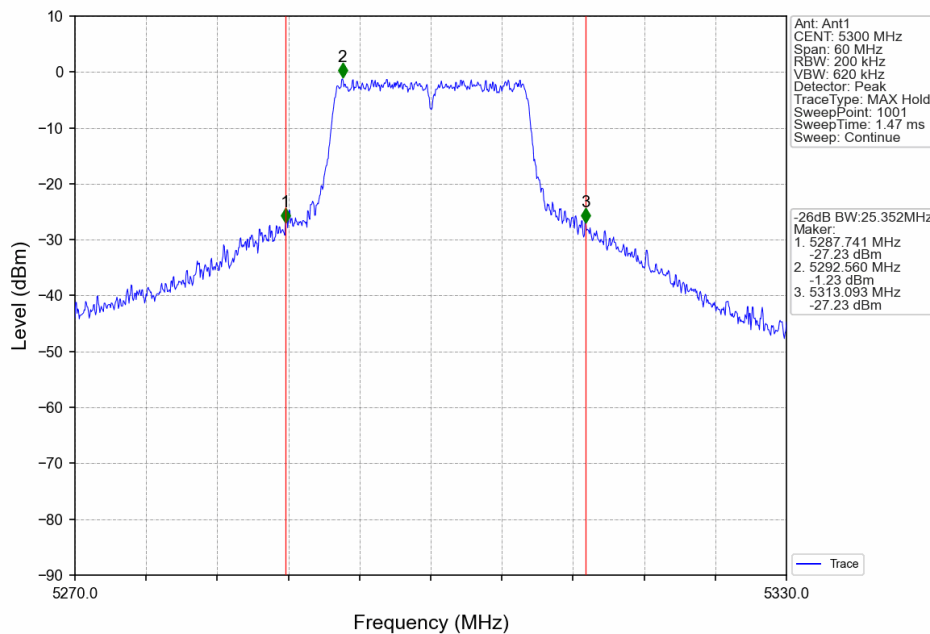
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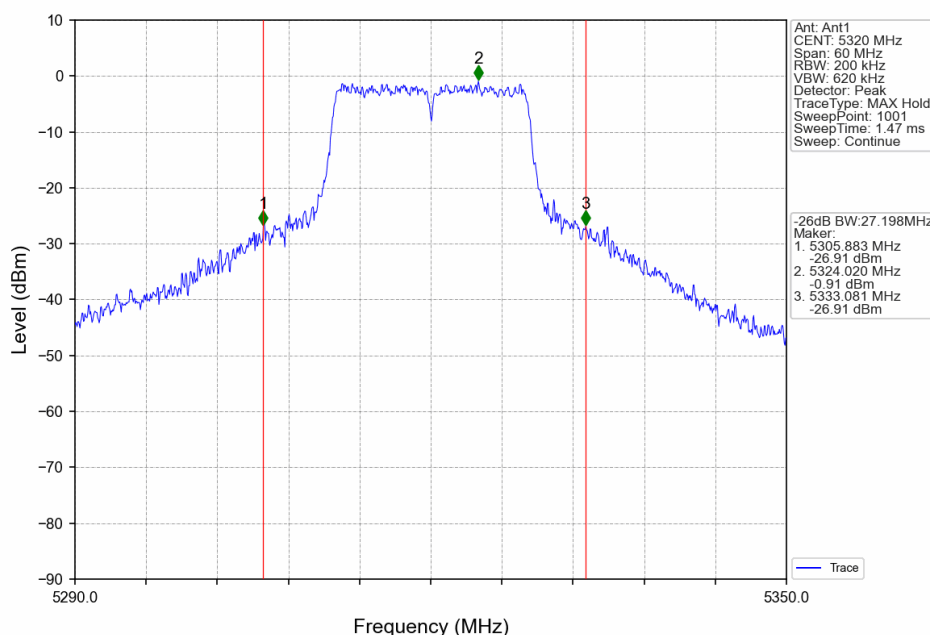
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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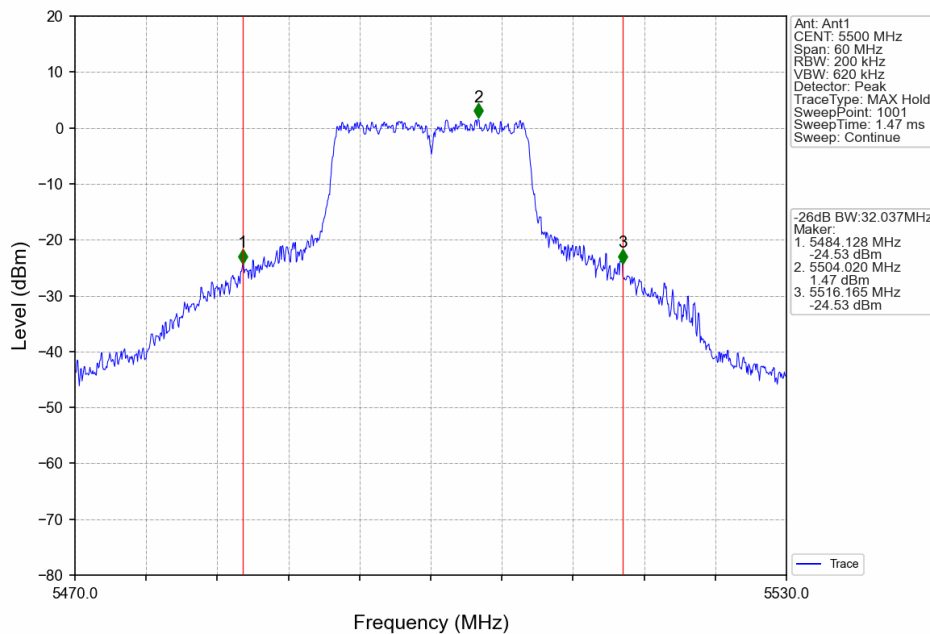
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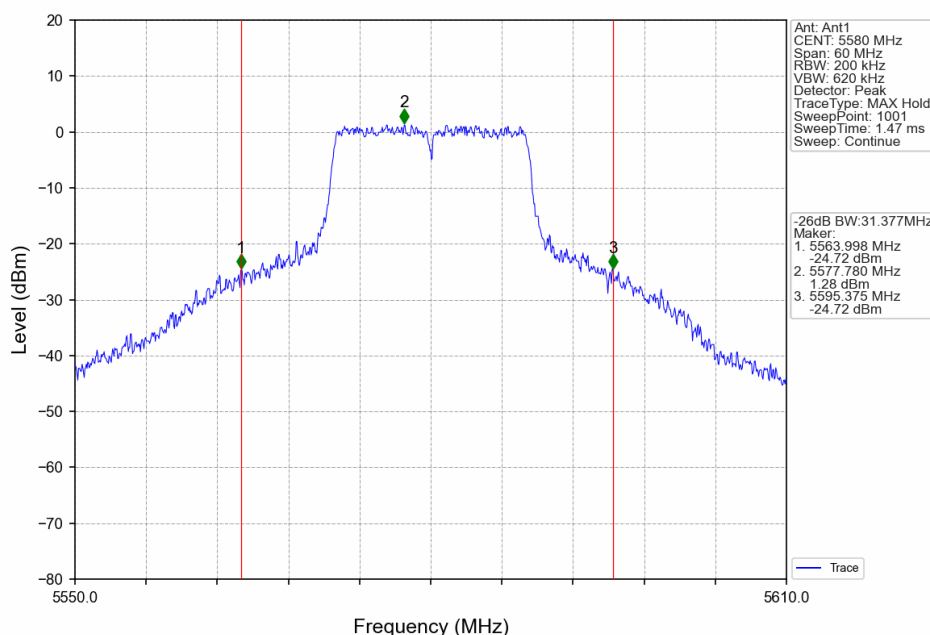
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant1\_NTNV



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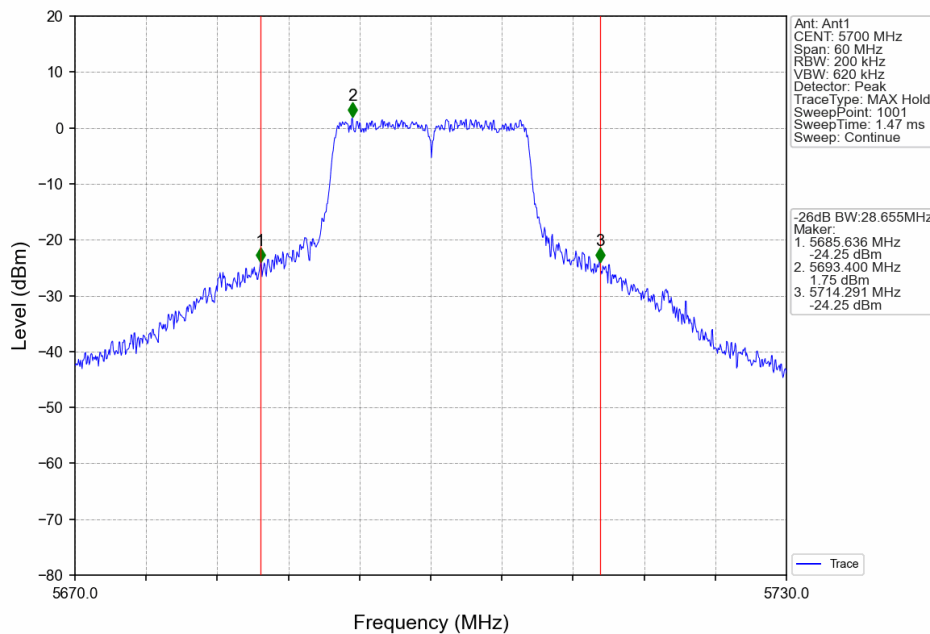
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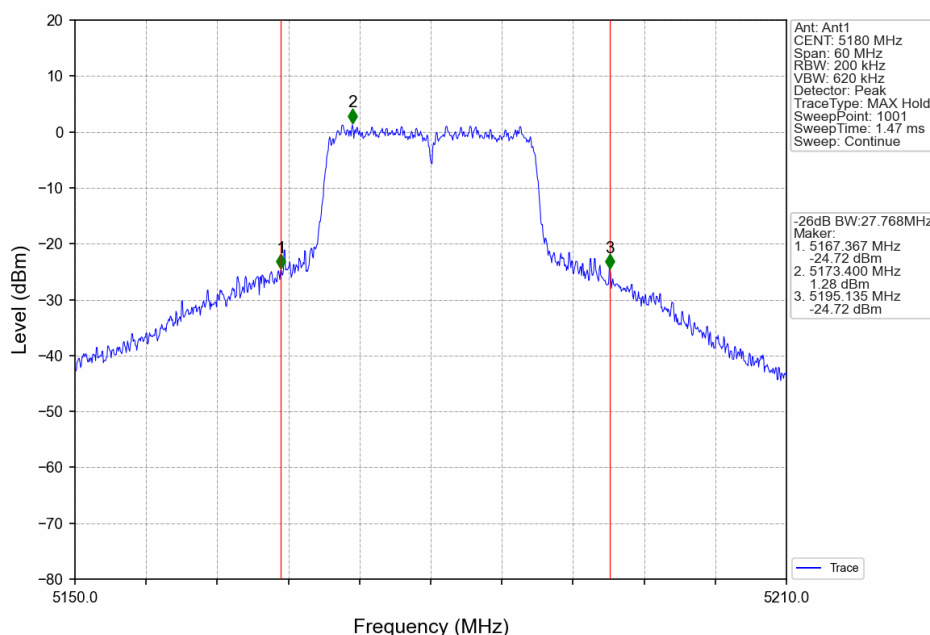
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



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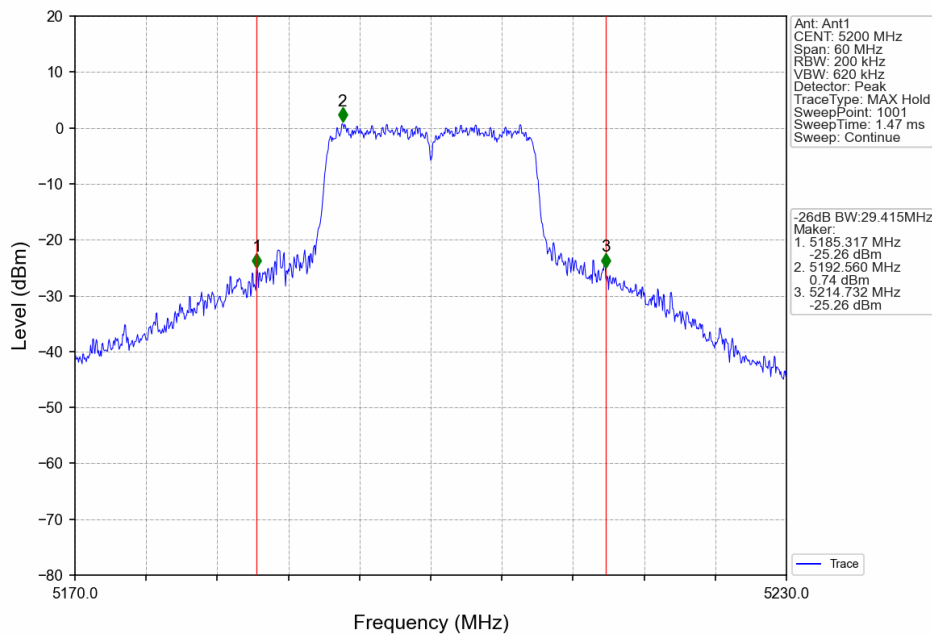
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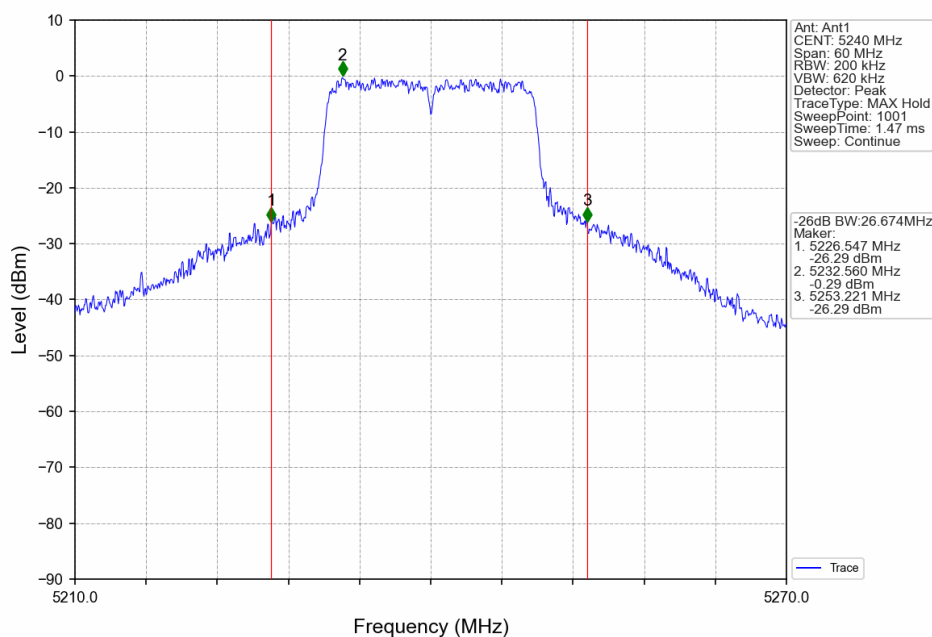
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### 802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



### 802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



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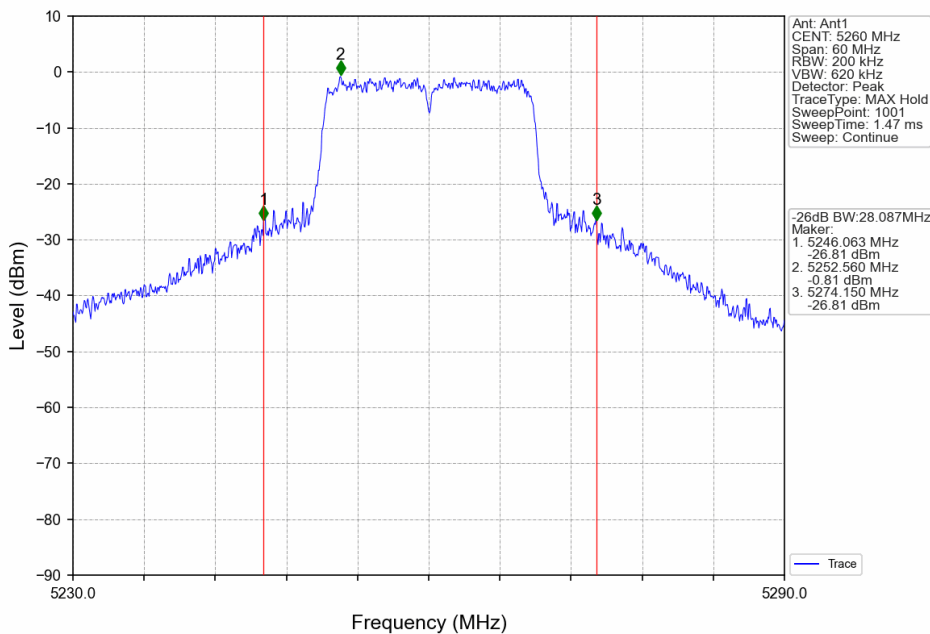
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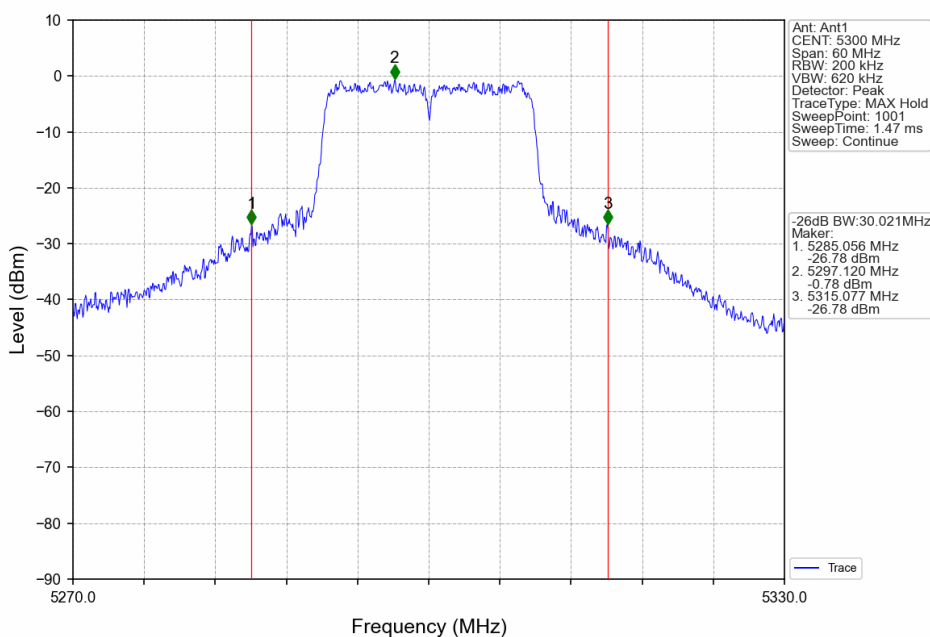
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### 802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



### 802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



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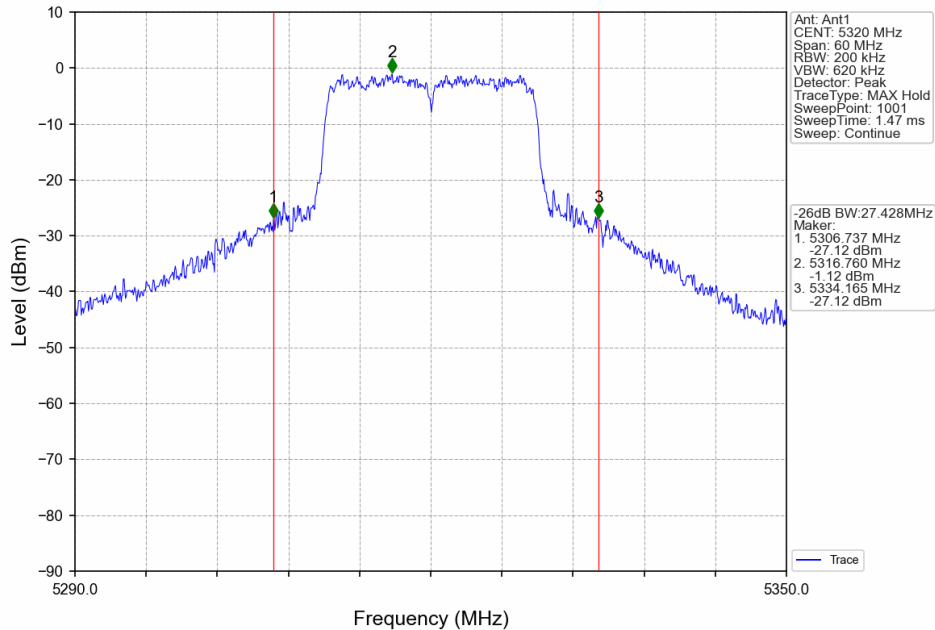
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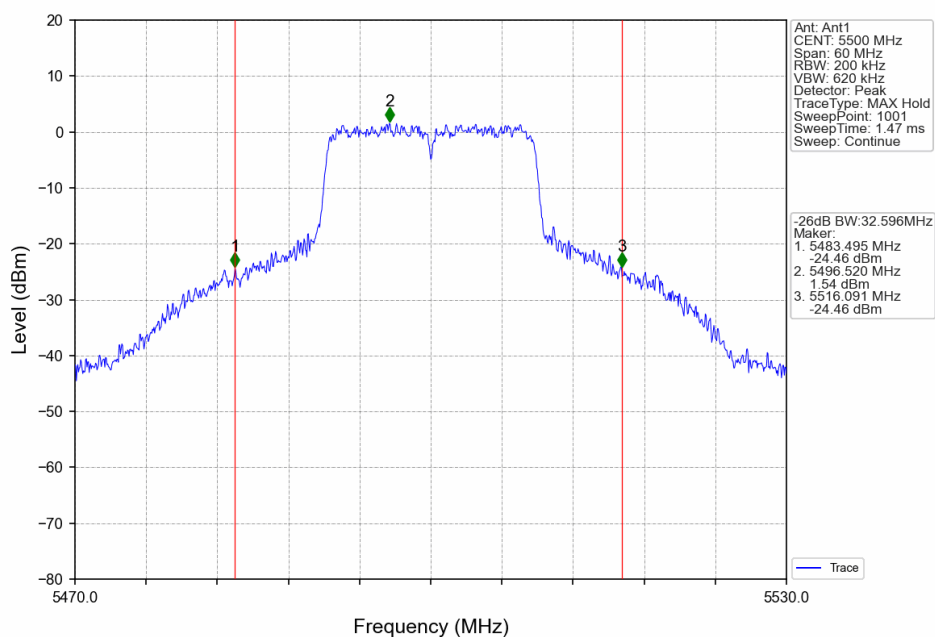
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### 802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV



### 802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV



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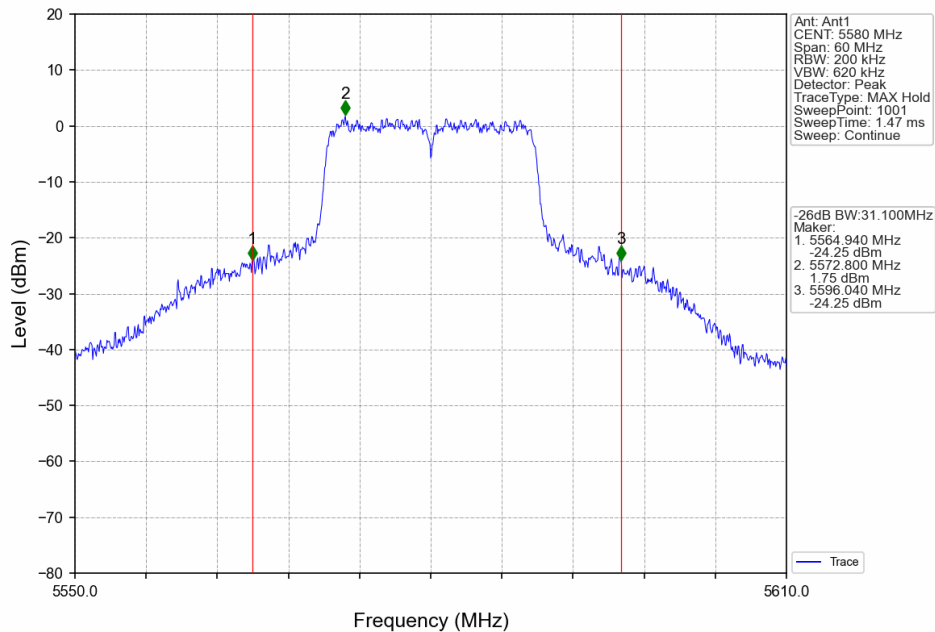
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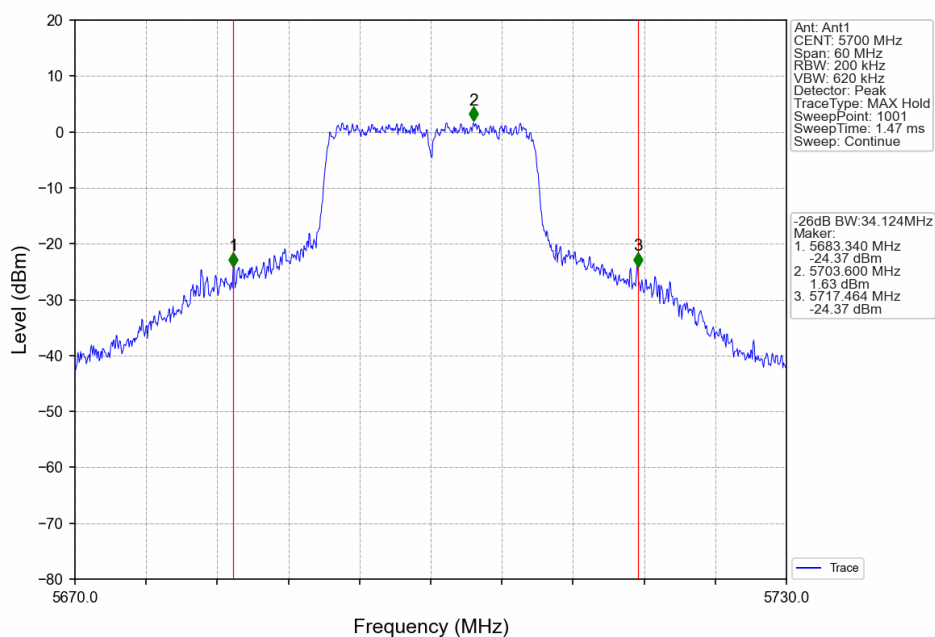
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### 802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



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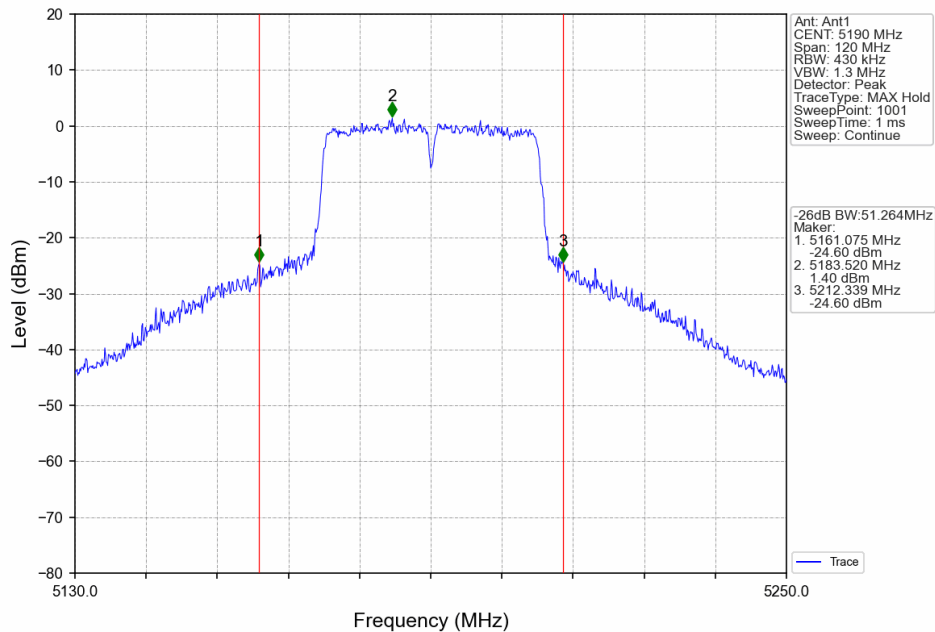
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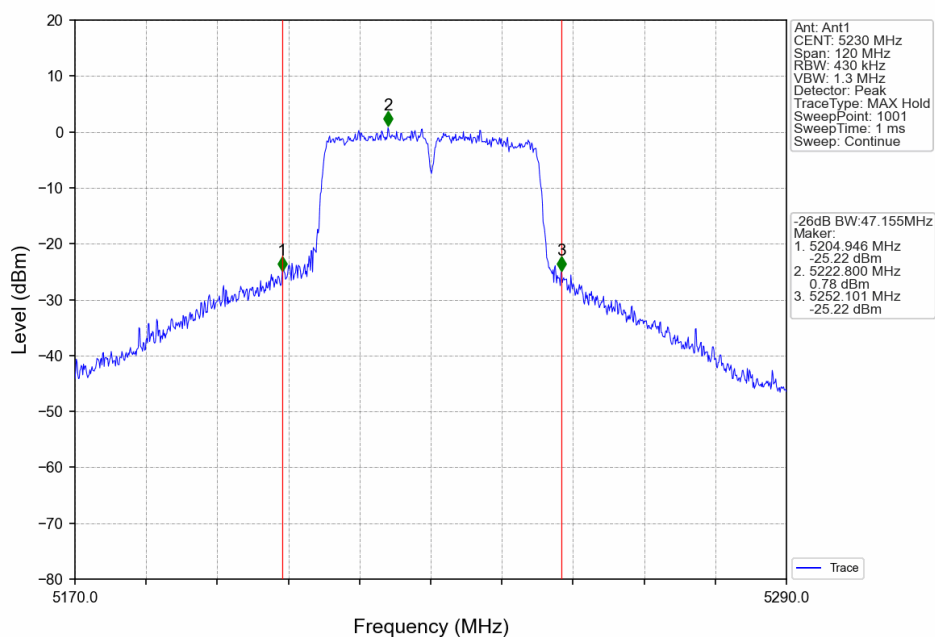
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### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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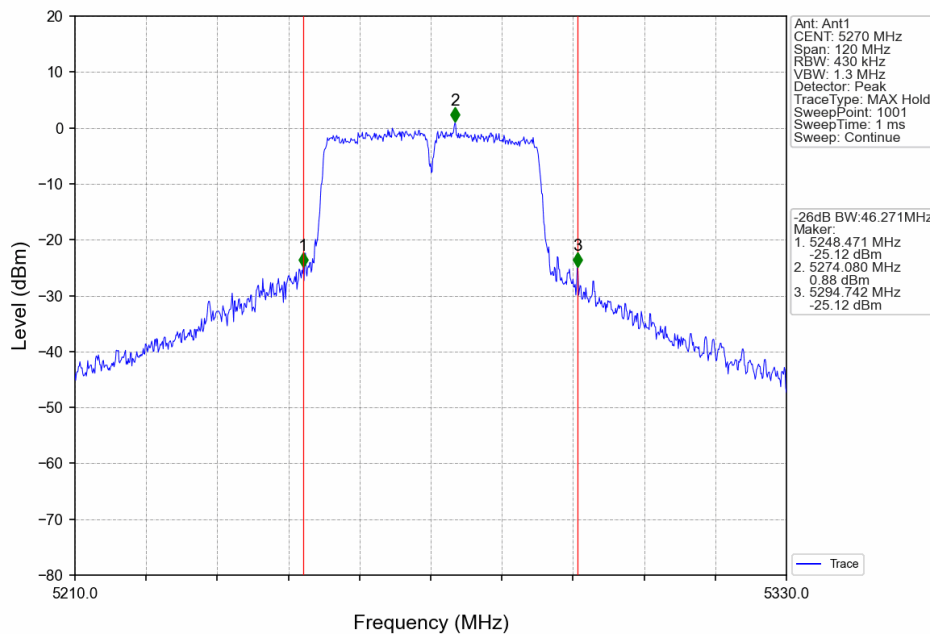
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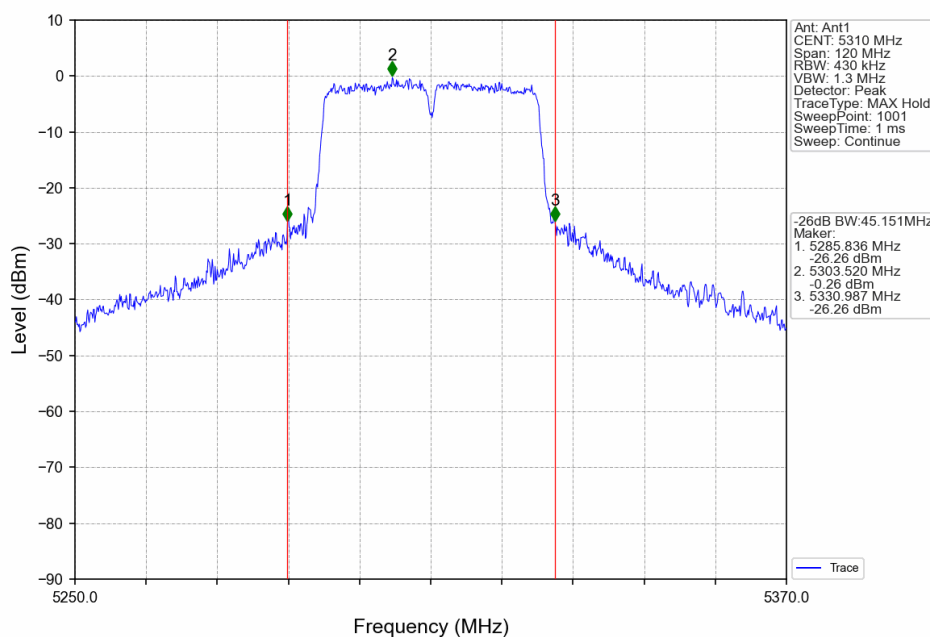
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### 802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



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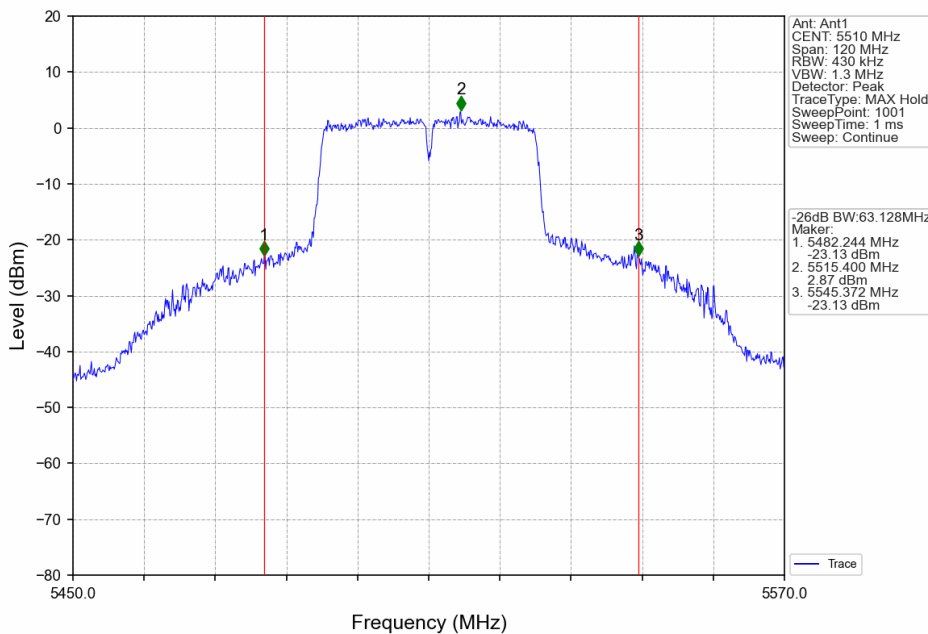
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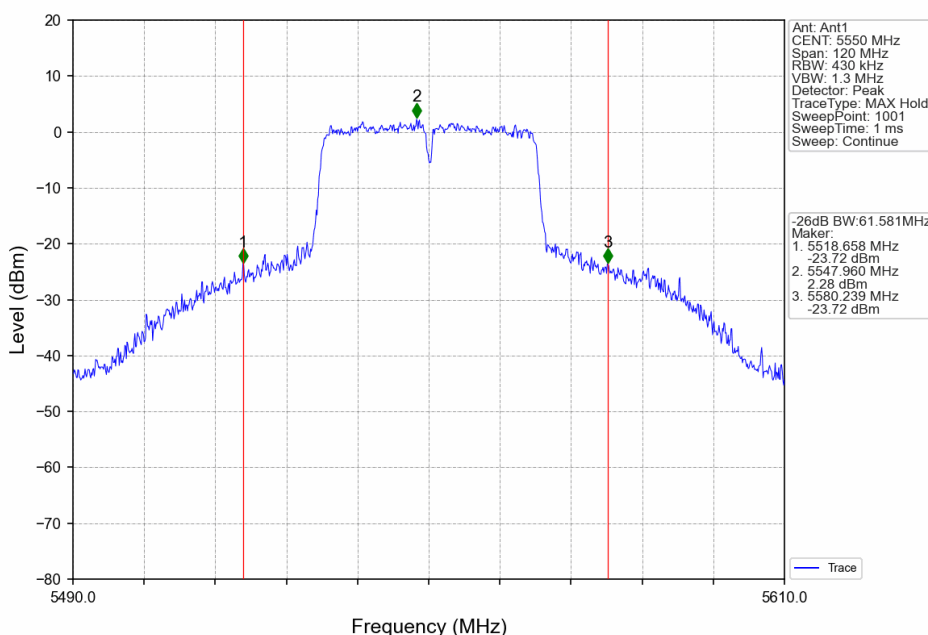
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### 802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



### 802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



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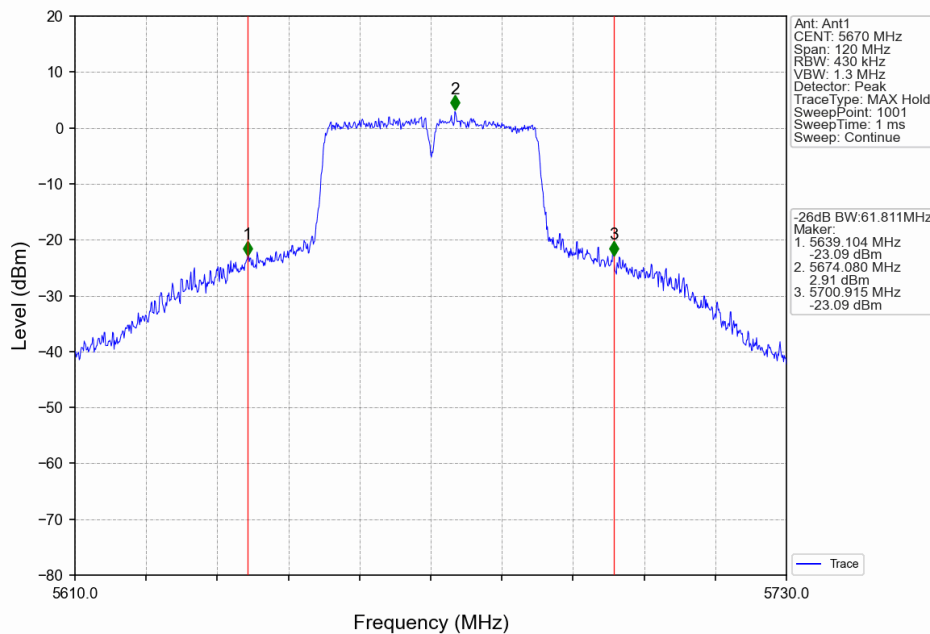
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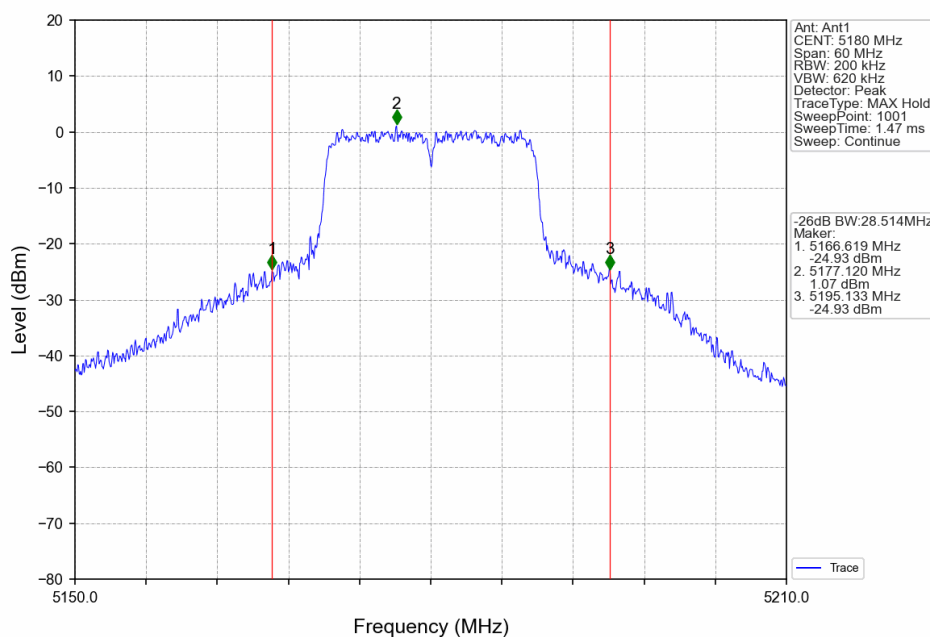
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### 802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



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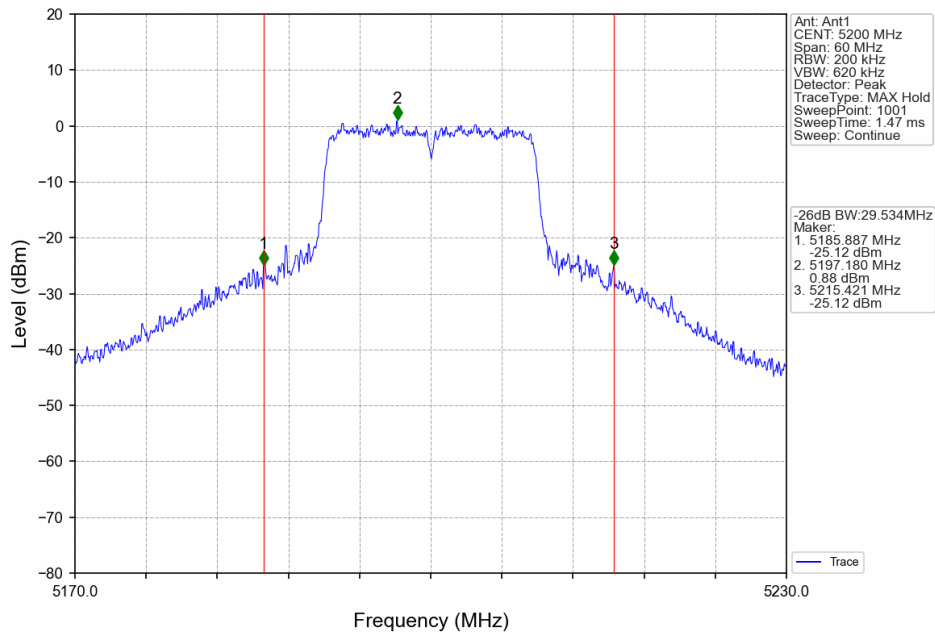
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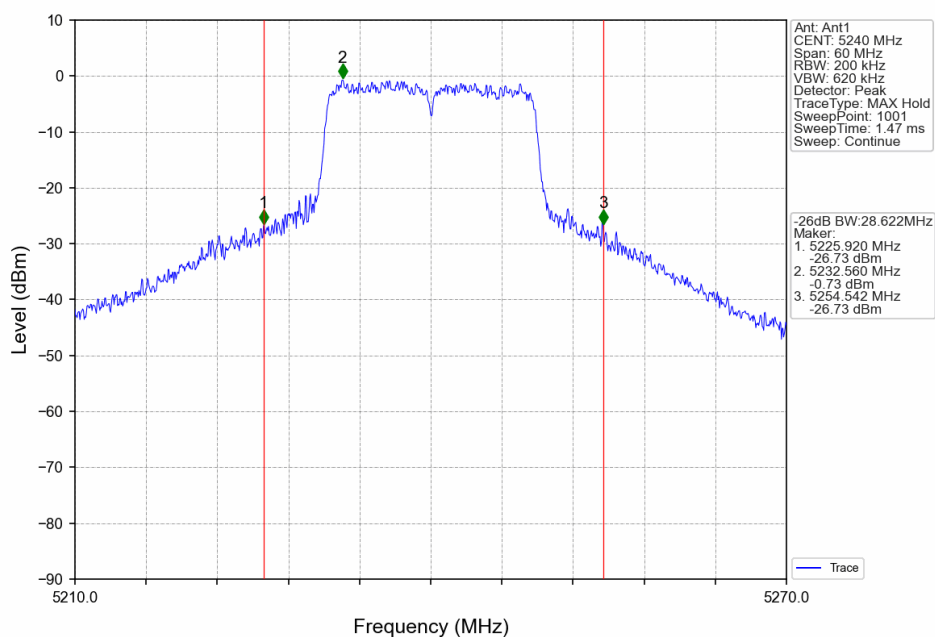
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### 802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



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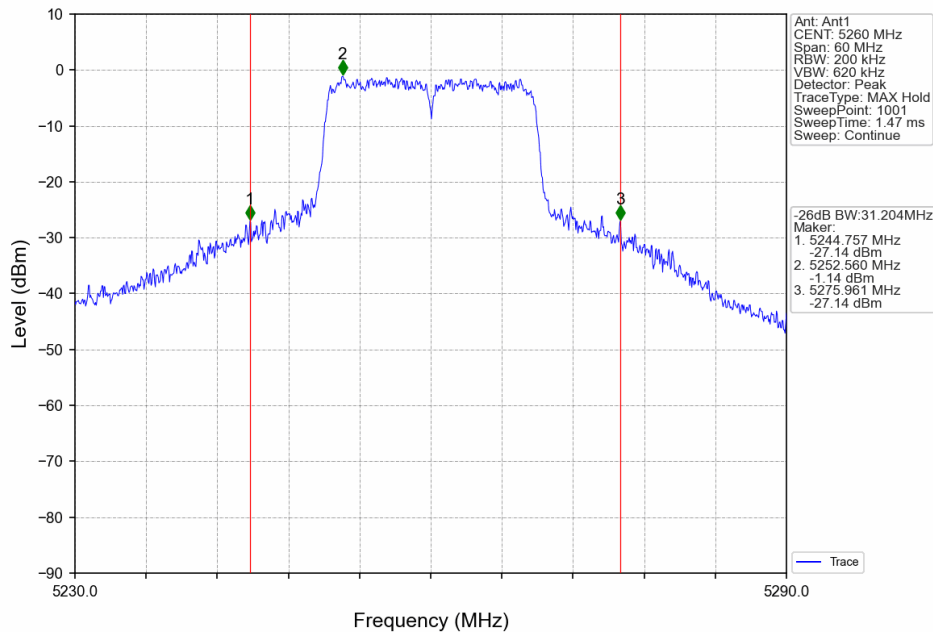
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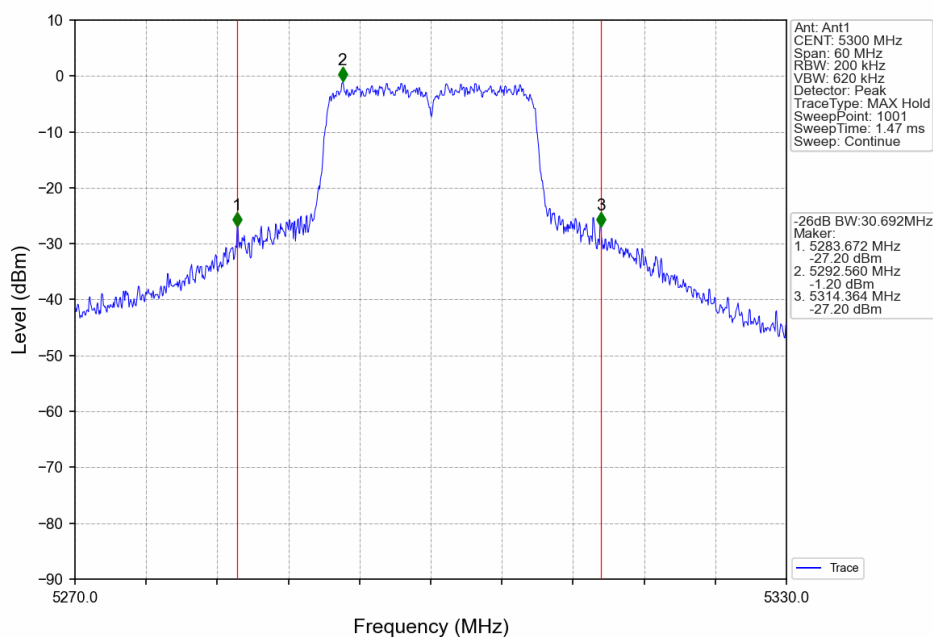
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### 802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



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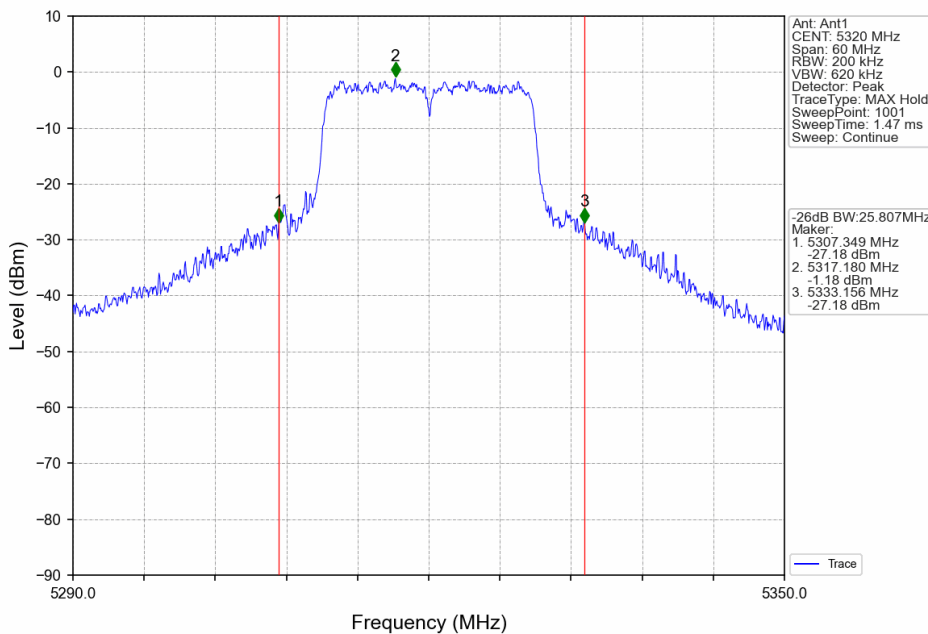
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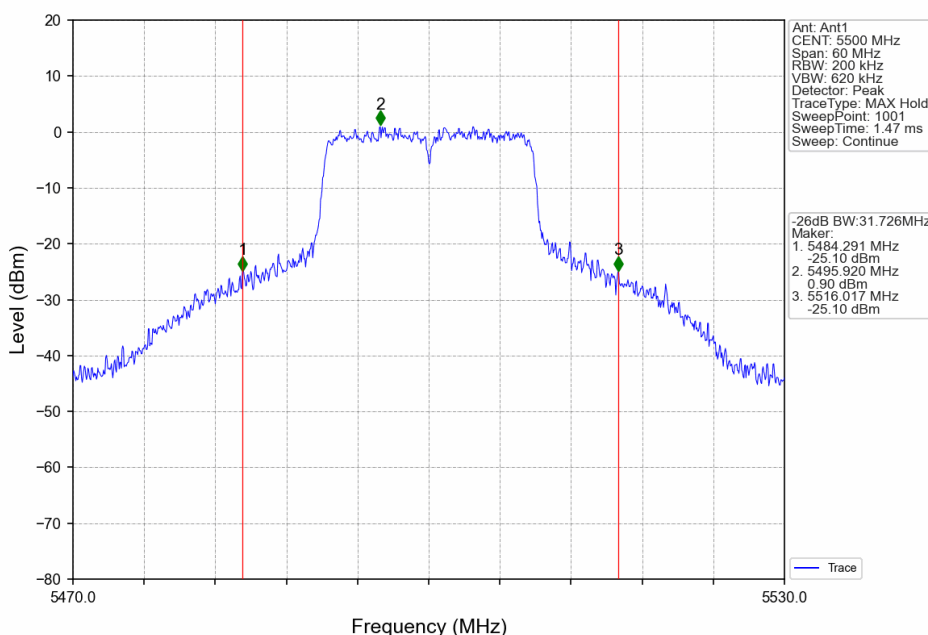
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### 802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



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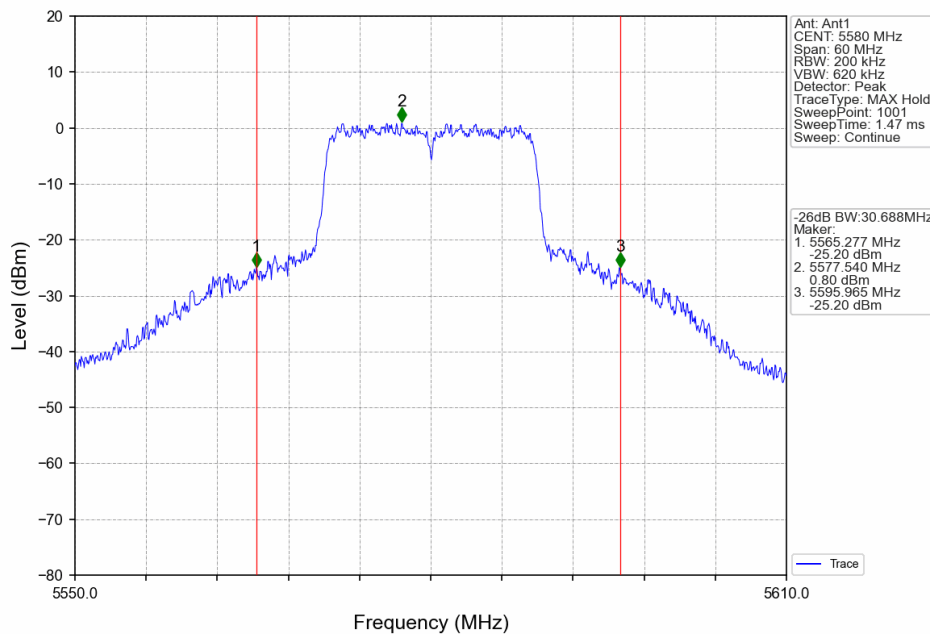
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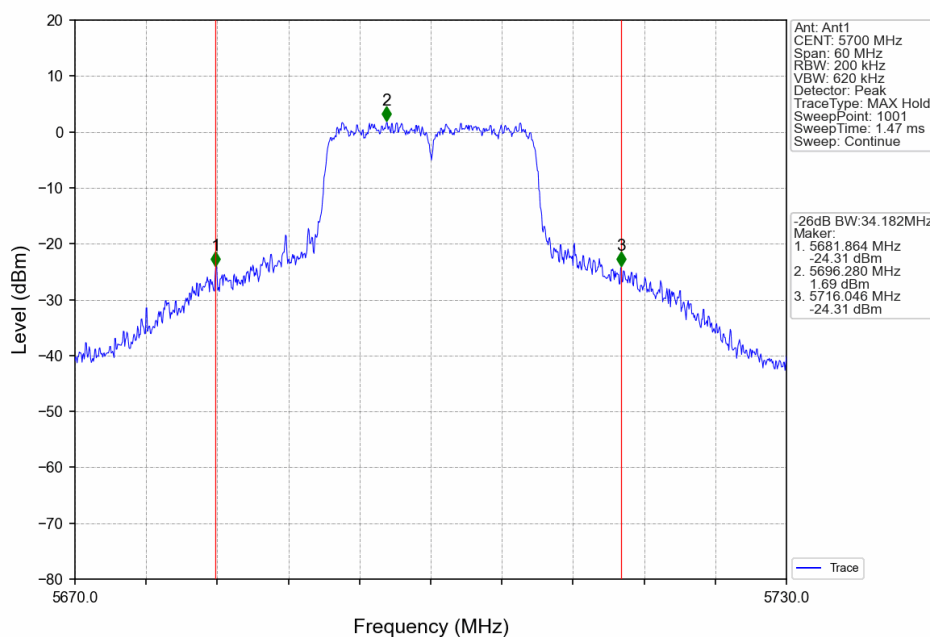
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### 802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



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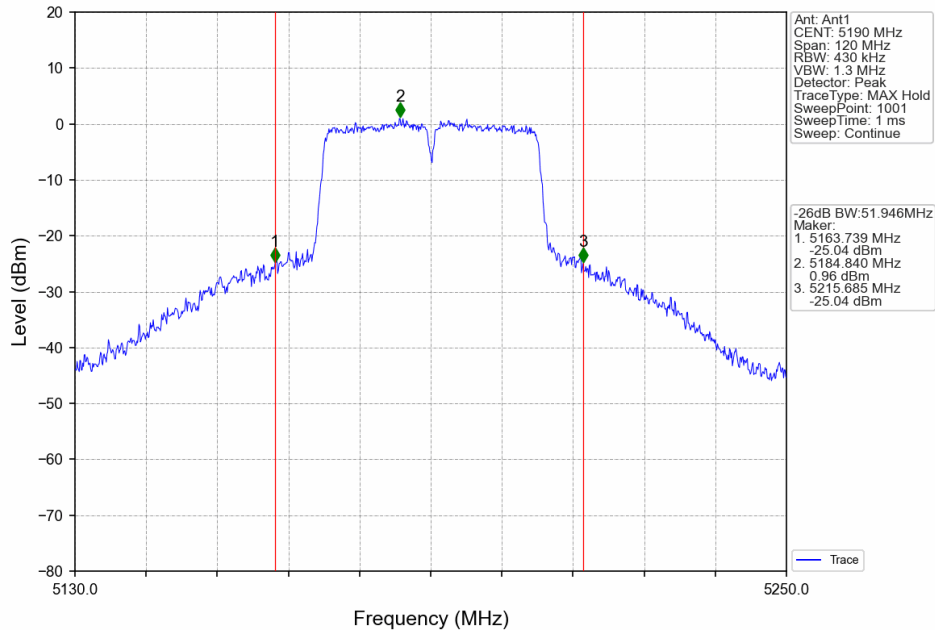
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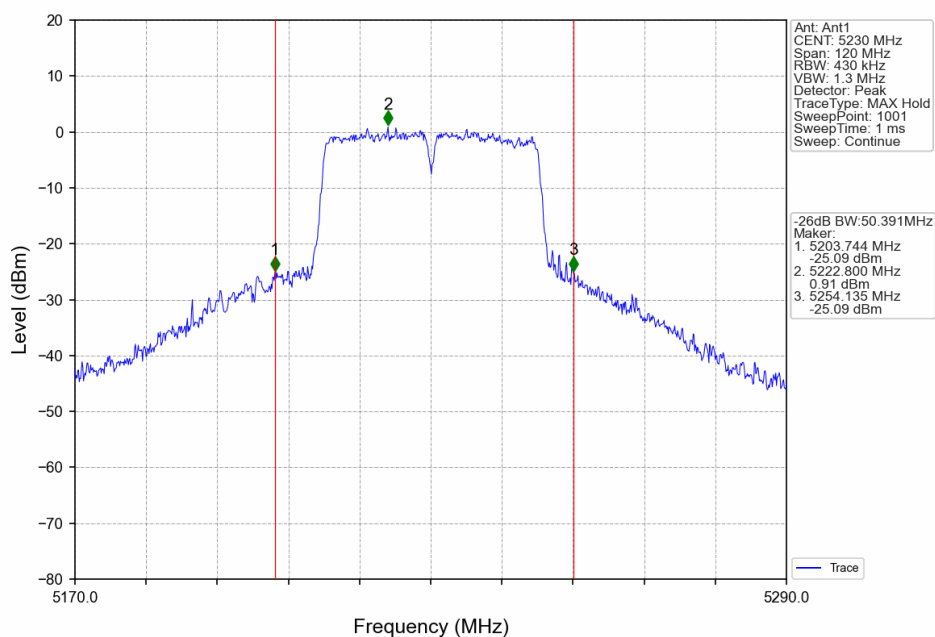
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### 802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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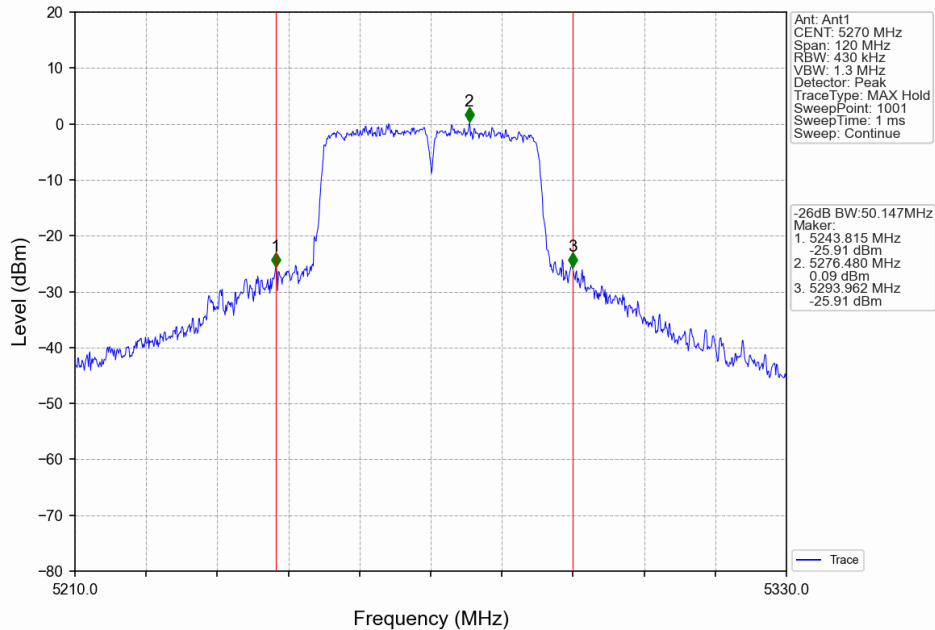
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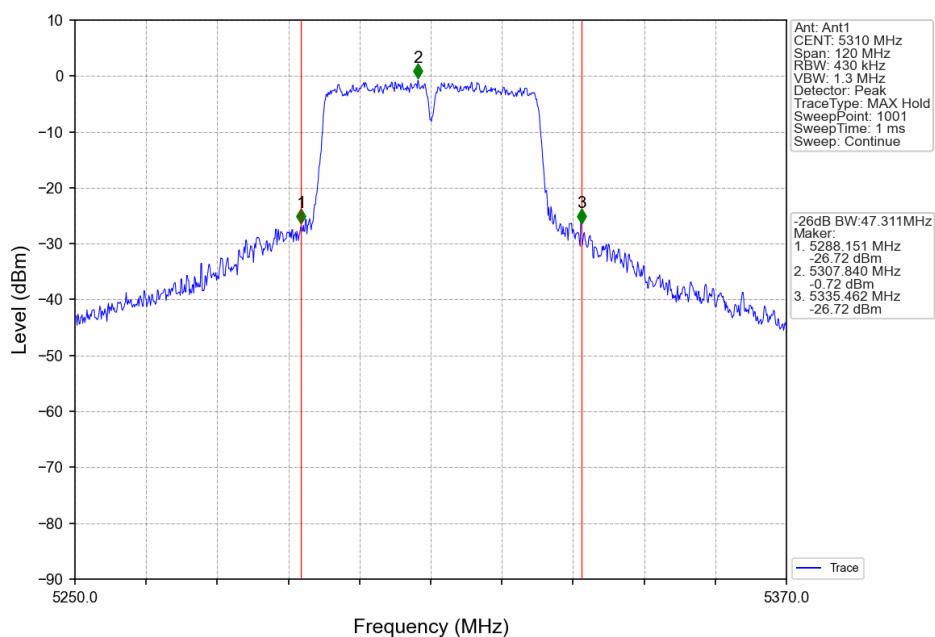
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### 802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



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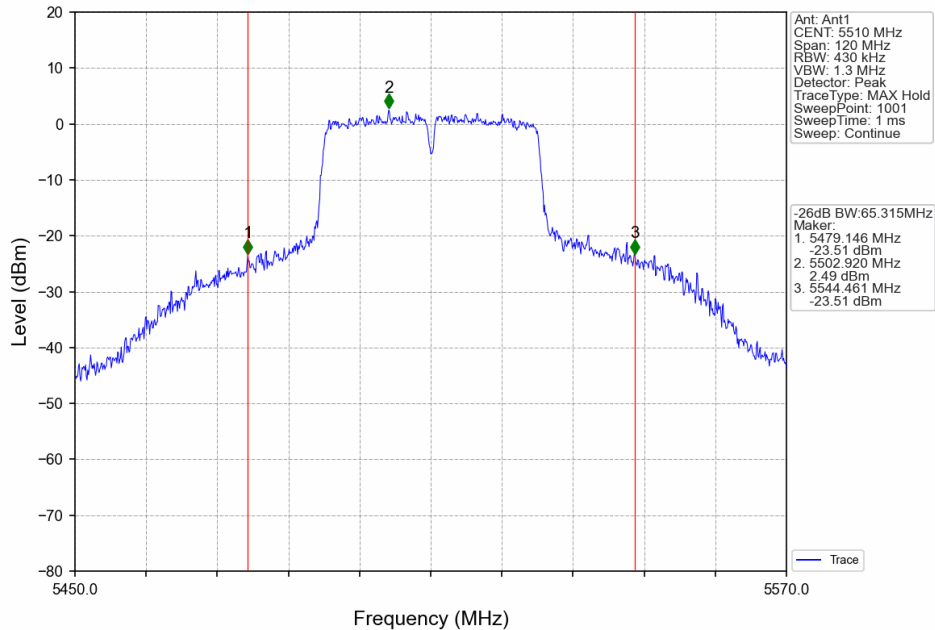
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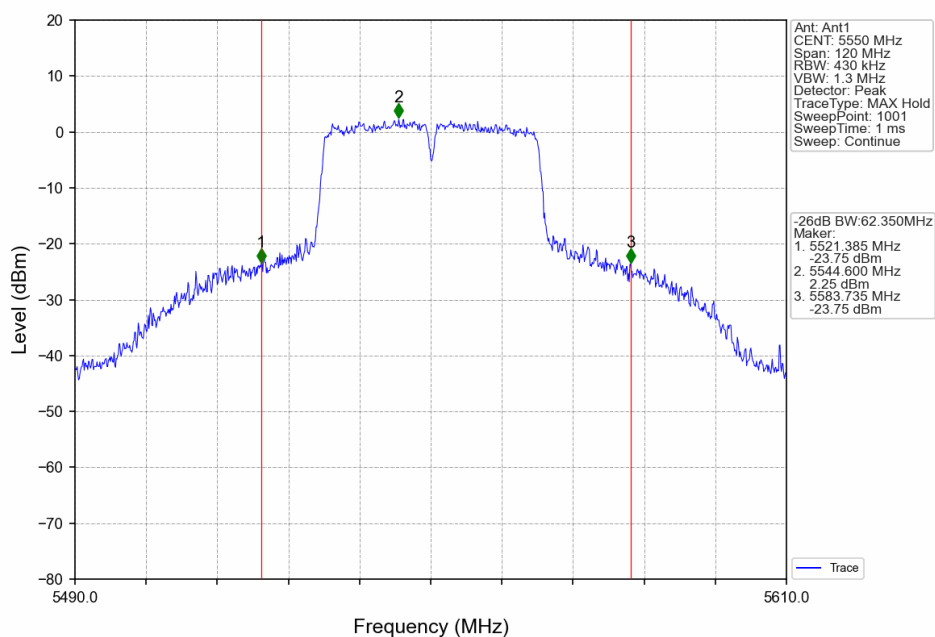
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### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



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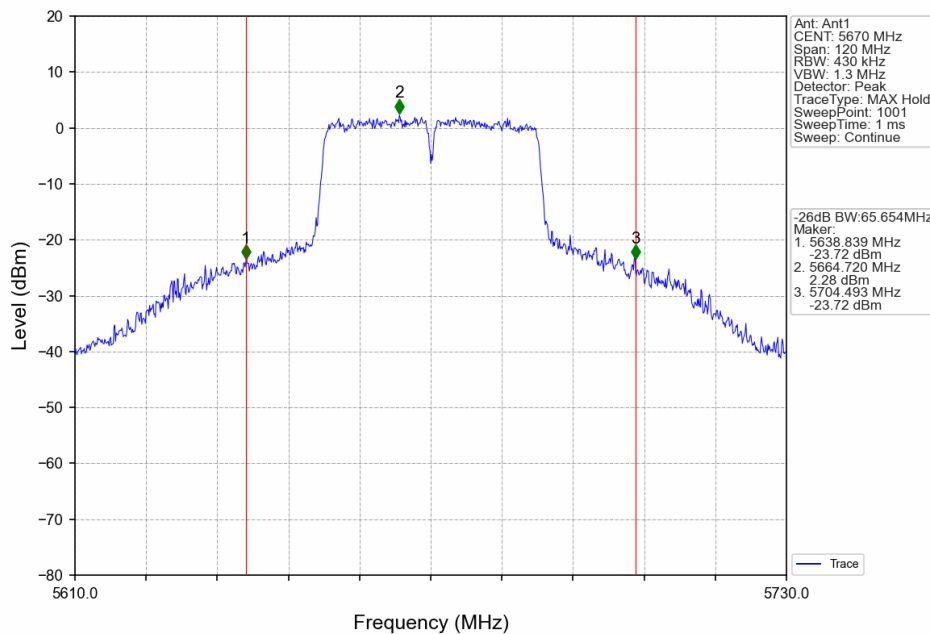
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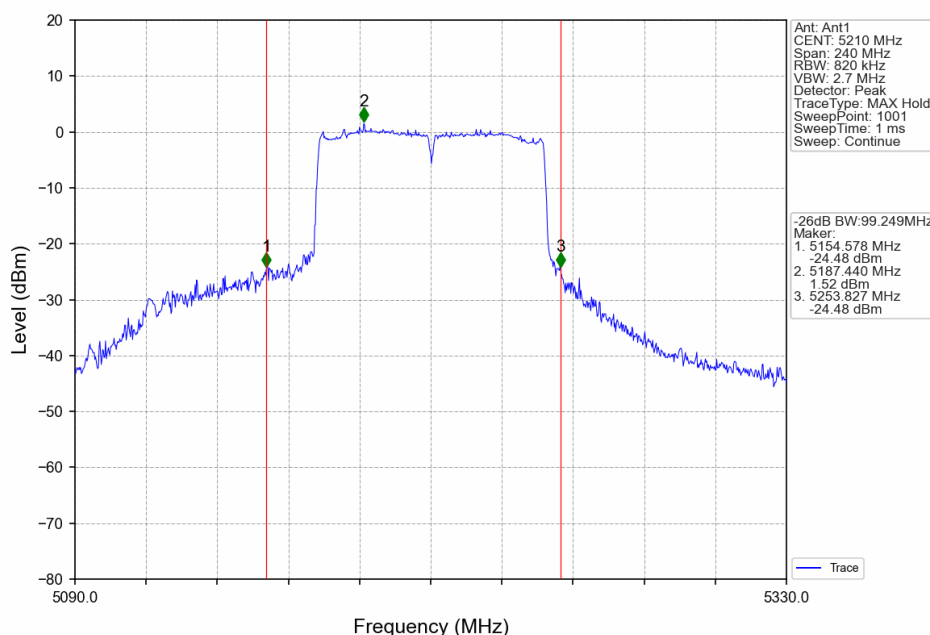
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### 802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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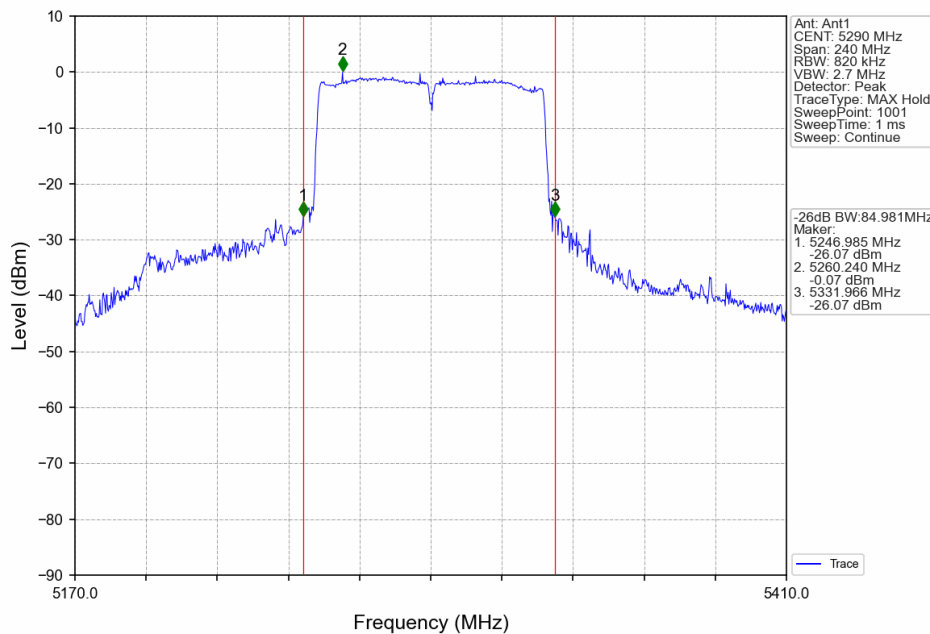
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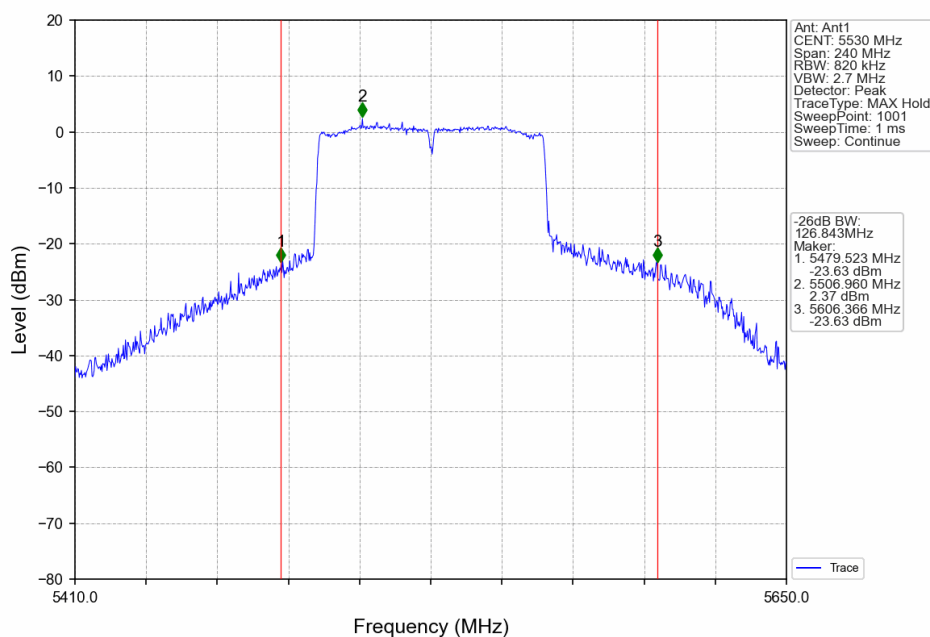
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802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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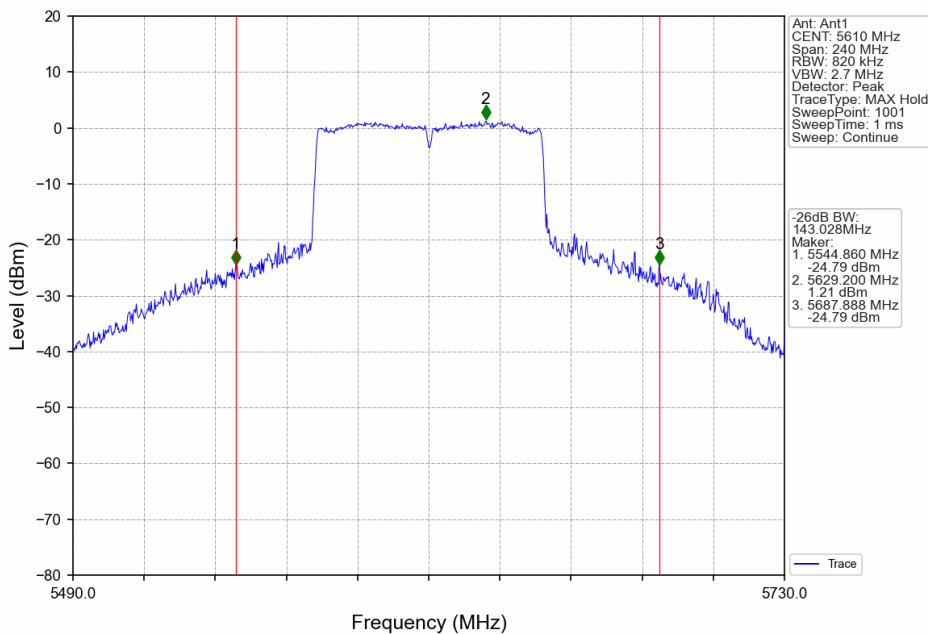
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### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |         | Verdict |
|----------------|---------|-----------------|----------------------------------------------|---------|---------|
|                |         |                 | ANT1                                         | Limit   |         |
| 802.11a        | SISO    | 5180            | 11.00                                        | <=23.98 | Pass    |
|                |         | 5200            | 10.59                                        | <=23.98 | Pass    |
|                |         | 5240            | 10.38                                        | <=23.98 | Pass    |
|                |         | 5260            | 9.71                                         | <=23.98 | Pass    |
|                |         | 5300            | 9.41                                         | <=23.98 | Pass    |
|                |         | 5320            | 9.26                                         | <=23.98 | Pass    |
|                |         | 5500            | 11.91                                        | <=23.98 | Pass    |
|                |         | 5580            | 11.71                                        | <=23.98 | Pass    |
|                |         | 5700            | 12.12                                        | <=23.98 | Pass    |
|                |         | 5745            | 13.52                                        | <=30    | Pass    |
|                |         | 5785            | 13.57                                        | <=30    | Pass    |
|                |         | 5825            | 13.33                                        | <=30    | Pass    |
| 802.11n (HT20) | SISO    | 5180            | 10.61                                        | <=23.98 | Pass    |
|                |         | 5200            | 10.88                                        | <=23.98 | Pass    |
|                |         | 5240            | 10.09                                        | <=23.98 | Pass    |
|                |         | 5260            | 9.58                                         | <=23.98 | Pass    |
|                |         | 5300            | 9.55                                         | <=23.98 | Pass    |
|                |         | 5320            | 9.37                                         | <=23.98 | Pass    |
|                |         | 5500            | 11.89                                        | <=23.98 | Pass    |
|                |         | 5580            | 11.81                                        | <=23.98 | Pass    |
|                |         | 5700            | 12.21                                        | <=23.98 | Pass    |
|                |         | 5745            | 13.24                                        | <=30    | Pass    |
|                |         | 5785            | 13.37                                        | <=30    | Pass    |
|                |         | 5825            | 13.53                                        | <=30    | Pass    |
| 802.11n (HT40) | SISO    | 5190            | 10.19                                        | <=23.98 | Pass    |
|                |         | 5230            | 10.38                                        | <=23.98 | Pass    |
|                |         | 5270            | 10.24                                        | <=23.98 | Pass    |
|                |         | 5310            | 9.81                                         | <=23.98 | Pass    |
|                |         | 5510            | 12.31                                        | <=23.98 | Pass    |
|                |         | 5550            | 12.22                                        | <=23.98 | Pass    |



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|                     |      |      |       |         |      |
|---------------------|------|------|-------|---------|------|
|                     |      | 5670 | 12.50 | <=23.98 | Pass |
|                     |      | 5755 | 13.47 | <=30    | Pass |
|                     |      | 5795 | 13.89 | <=30    | Pass |
| 802.11ac<br>(VHT20) | SISO | 5180 | 10.92 | <=23.98 | Pass |
|                     |      | 5200 | 10.93 | <=23.98 | Pass |
|                     |      | 5240 | 9.61  | <=23.98 | Pass |
|                     |      | 5260 | 9.04  | <=23.98 | Pass |
|                     |      | 5300 | 9.30  | <=23.98 | Pass |
|                     |      | 5320 | 9.06  | <=23.98 | Pass |
|                     |      | 5500 | 11.42 | <=23.98 | Pass |
|                     |      | 5580 | 11.42 | <=23.98 | Pass |
|                     |      | 5700 | 12.32 | <=23.98 | Pass |
|                     |      | 5745 | 13.27 | <=30    | Pass |
|                     |      | 5785 | 13.51 | <=30    | Pass |
|                     |      | 5825 | 13.33 | <=30    | Pass |
| 802.11ac<br>(VHT40) | SISO | 5190 | 10.20 | <=23.98 | Pass |
|                     |      | 5230 | 10.57 | <=23.98 | Pass |
|                     |      | 5270 | 9.78  | <=23.98 | Pass |
|                     |      | 5310 | 9.66  | <=23.98 | Pass |
|                     |      | 5510 | 12.30 | <=23.98 | Pass |
|                     |      | 5550 | 12.34 | <=23.98 | Pass |
|                     |      | 5670 | 12.54 | <=23.98 | Pass |
|                     |      | 5755 | 13.49 | <=30    | Pass |
|                     |      | 5795 | 13.93 | <=30    | Pass |
| 802.11ac<br>(VHT80) | SISO | 5210 | 10.32 | <=23.98 | Pass |
|                     |      | 5290 | 9.66  | <=23.98 | Pass |
|                     |      | 5530 | 12.40 | <=23.98 | Pass |
|                     |      | 5610 | 11.64 | <=23.98 | Pass |
|                     |      | 5775 | 13.80 | <=30    | Pass |



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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/MHz) |       | Verdict |
|------------------|---------|-----------------|-----------------------|-------|---------|
|                  |         |                 | ANT1                  | Limit |         |
| 802.11a          | SISO    | 5180            | -0.06                 | <=11  | Pass    |
|                  |         | 5200            | -0.71                 | <=11  | Pass    |
|                  |         | 5240            | -0.89                 | <=11  | Pass    |
|                  |         | 5260            | -1.53                 | <=11  | Pass    |
|                  |         | 5300            | -1.76                 | <=11  | Pass    |
|                  |         | 5320            | -2.01                 | <=11  | Pass    |
|                  |         | 5500            | 0.57                  | <=11  | Pass    |
|                  |         | 5580            | 0.52                  | <=11  | Pass    |
|                  |         | 5700            | 0.88                  | <=11  | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 0.19                  | <=11  | Pass    |
|                  |         | 5200            | -0.43                 | <=11  | Pass    |
|                  |         | 5240            | -1.41                 | <=11  | Pass    |
|                  |         | 5260            | -2.08                 | <=11  | Pass    |
|                  |         | 5300            | -2.05                 | <=11  | Pass    |
|                  |         | 5320            | -2.13                 | <=11  | Pass    |
|                  |         | 5500            | 0.46                  | <=11  | Pass    |
|                  |         | 5580            | 0.33                  | <=11  | Pass    |
|                  |         | 5700            | 0.66                  | <=11  | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | -3.07                 | <=11  | Pass    |
|                  |         | 5230            | -3.95                 | <=11  | Pass    |
|                  |         | 5270            | -4.13                 | <=11  | Pass    |
|                  |         | 5310            | -4.59                 | <=11  | Pass    |
|                  |         | 5510            | -2.23                 | <=11  | Pass    |
|                  |         | 5550            | -2.05                 | <=11  | Pass    |
|                  |         | 5670            | -1.76                 | <=11  | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | -0.59                 | <=11  | Pass    |
|                  |         | 5200            | -0.57                 | <=11  | Pass    |
|                  |         | 5240            | -1.81                 | <=11  | Pass    |
|                  |         | 5260            | -2.32                 | <=11  | Pass    |
|                  |         | 5300            | -2.18                 | <=11  | Pass    |
|                  |         | 5320            | -2.53                 | <=11  | Pass    |



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|                     |      |      |       |      |      |
|---------------------|------|------|-------|------|------|
|                     |      | 5500 | -0.03 | <=11 | Pass |
|                     |      | 5580 | -0.18 | <=11 | Pass |
|                     |      | 5700 | 0.86  | <=11 | Pass |
| 802.11ac<br>(VHT40) | SISO | 5190 | -3.11 | <=11 | Pass |
|                     |      | 5230 | -3.75 | <=11 | Pass |
|                     |      | 5270 | -4.09 | <=11 | Pass |
|                     |      | 5310 | -4.62 | <=11 | Pass |
|                     |      | 5510 | -2.19 | <=11 | Pass |
|                     |      | 5550 | -2.12 | <=11 | Pass |
|                     |      | 5670 | -1.80 | <=11 | Pass |
| 802.11ac<br>(VHT80) | SISO | 5210 | -6.16 | <=11 | Pass |
|                     |      | 5290 | -7.32 | <=11 | Pass |
|                     |      | 5530 | -5.16 | <=11 | Pass |
|                     |      | 5610 | -5.87 | <=11 | Pass |



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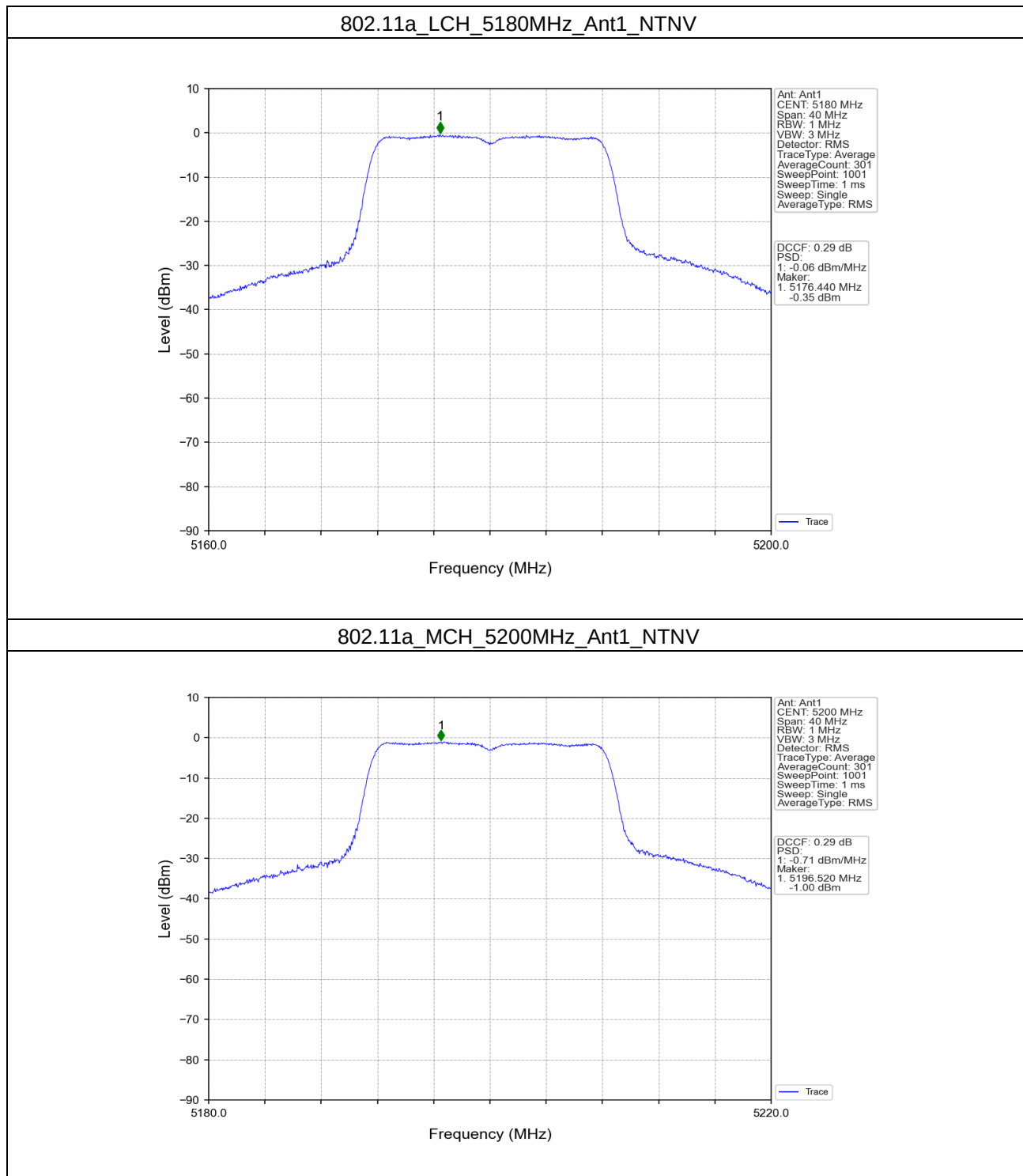
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### 4.1.2 Test Graph



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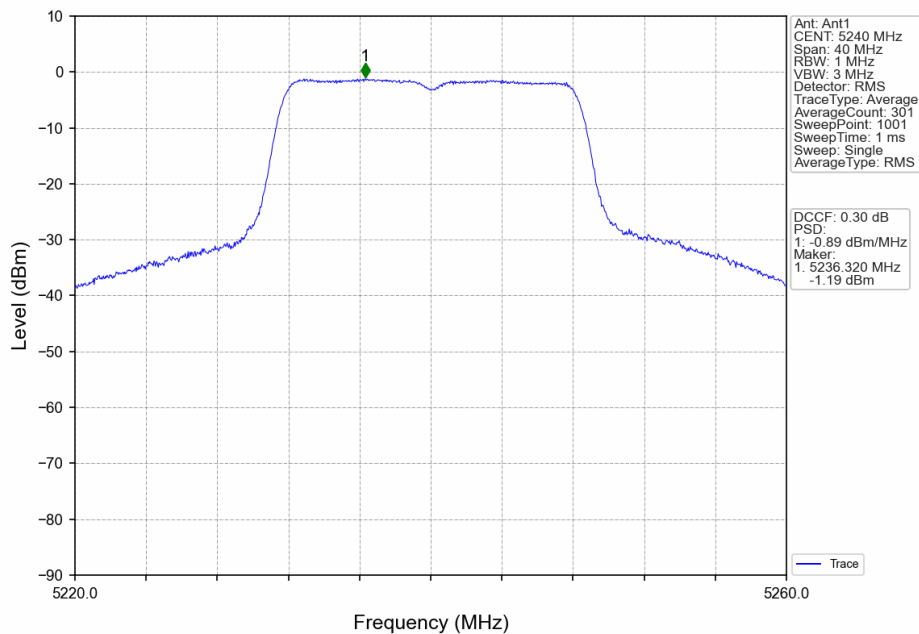
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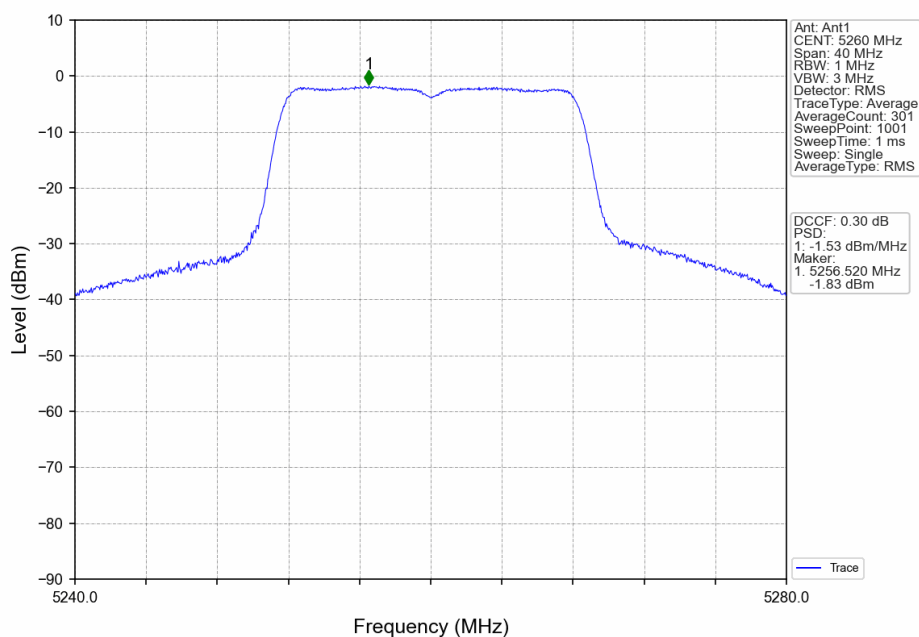
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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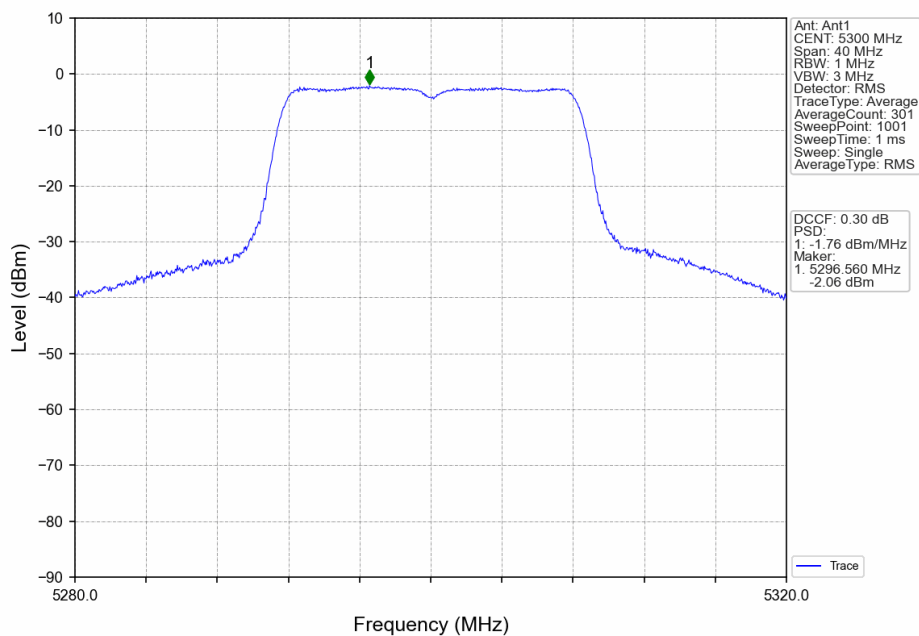
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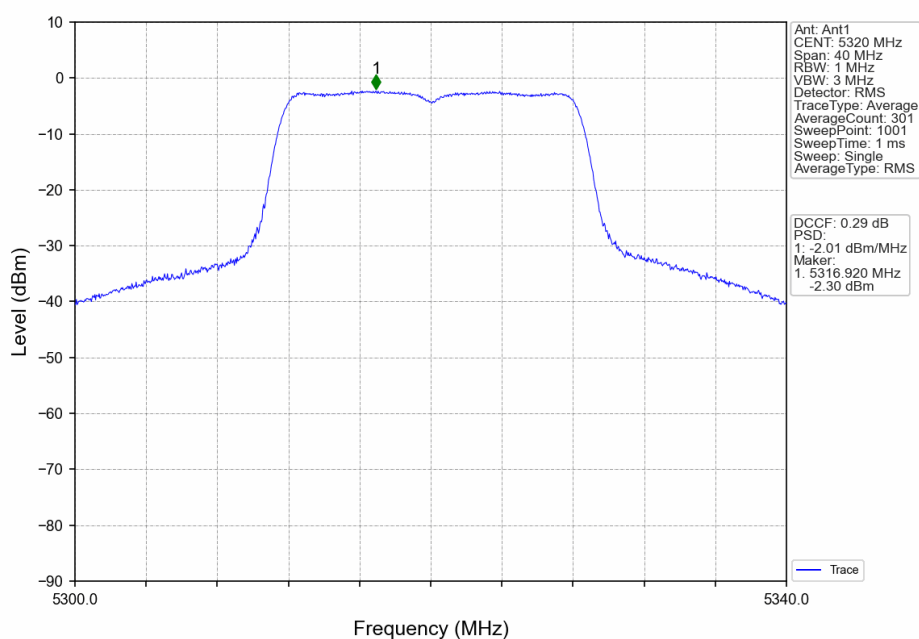
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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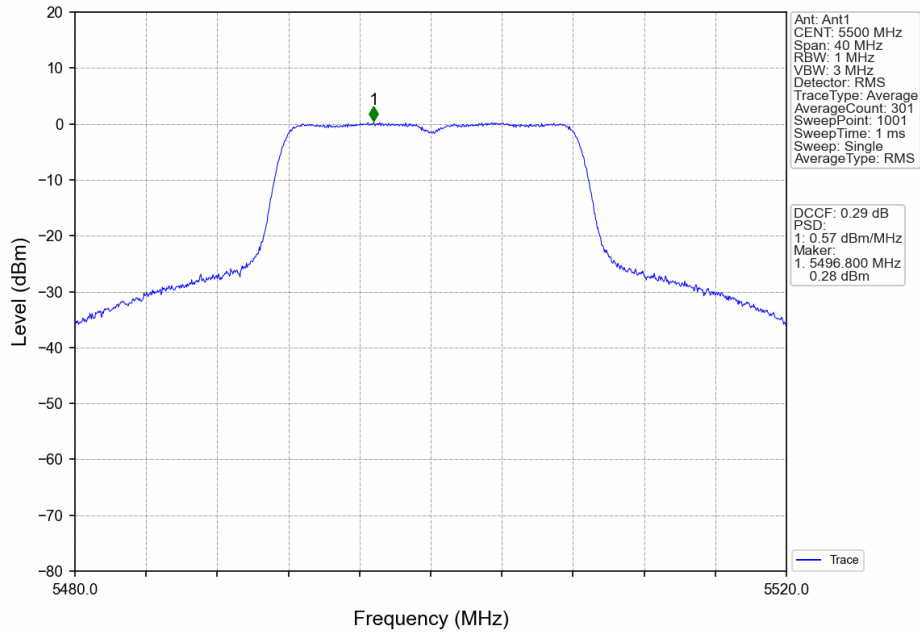
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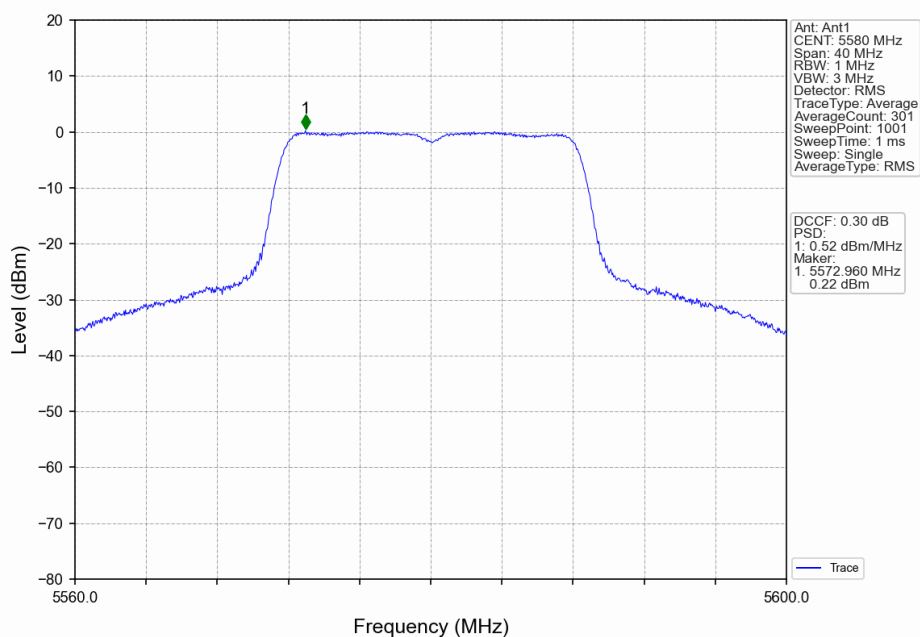
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant1\_NTNV



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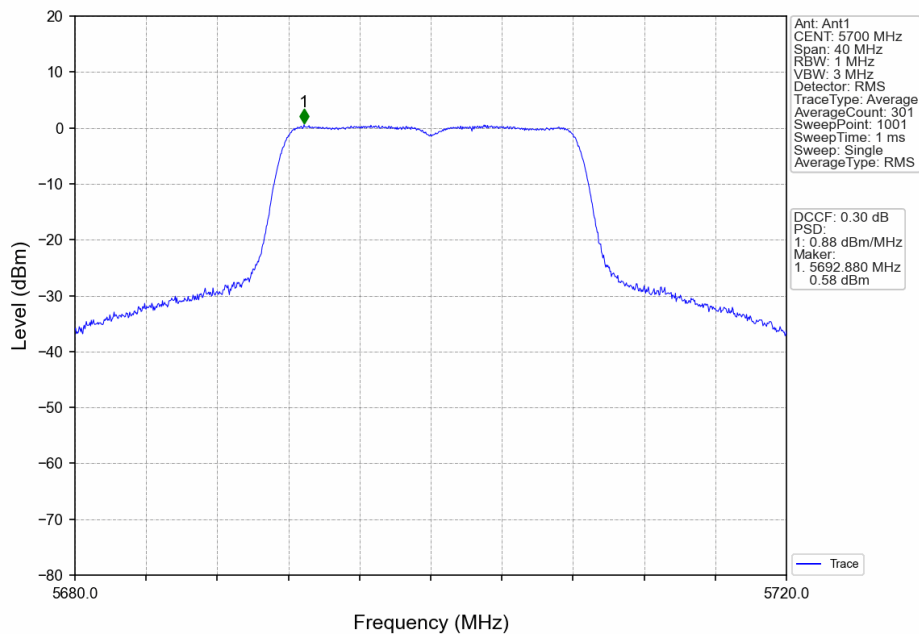
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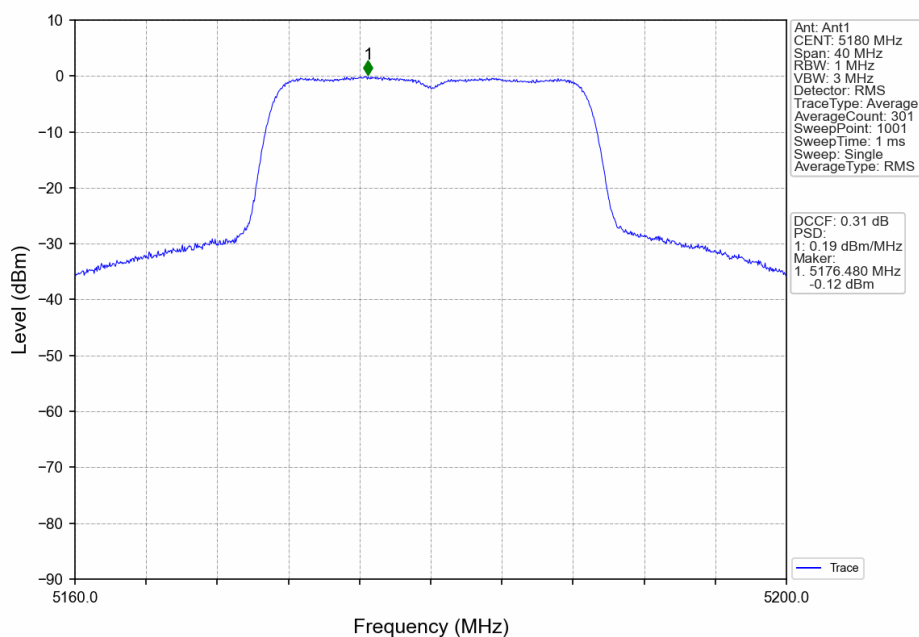
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



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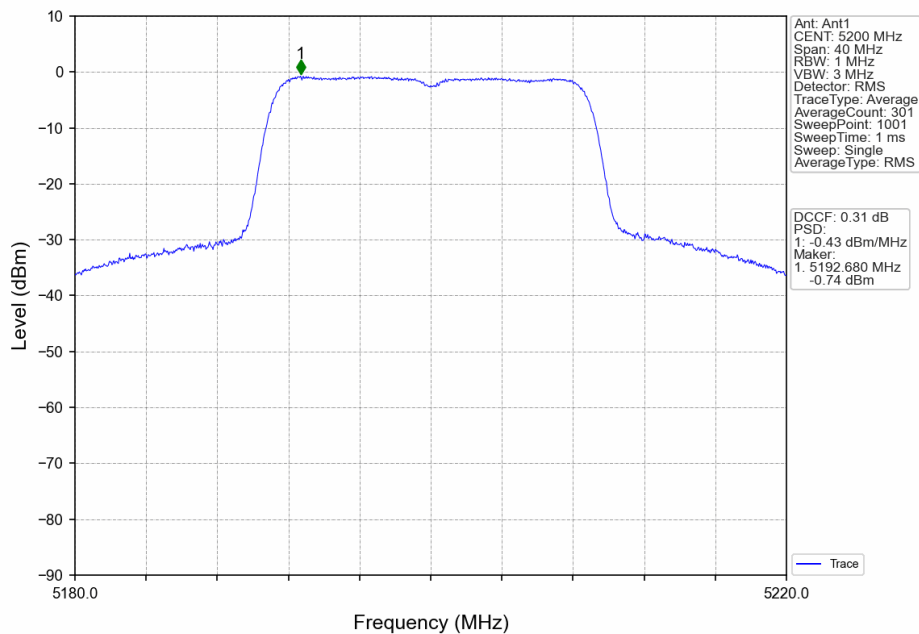
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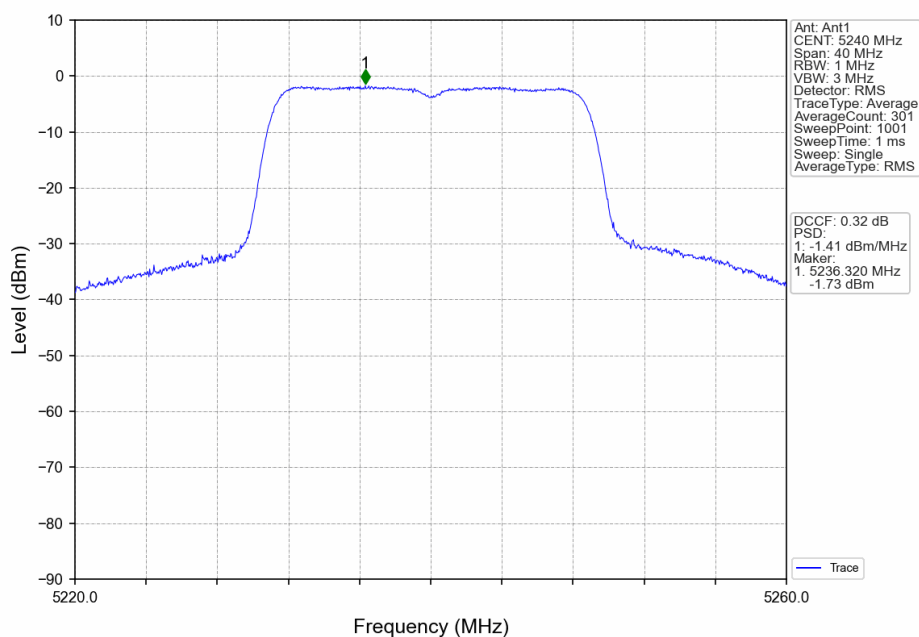
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



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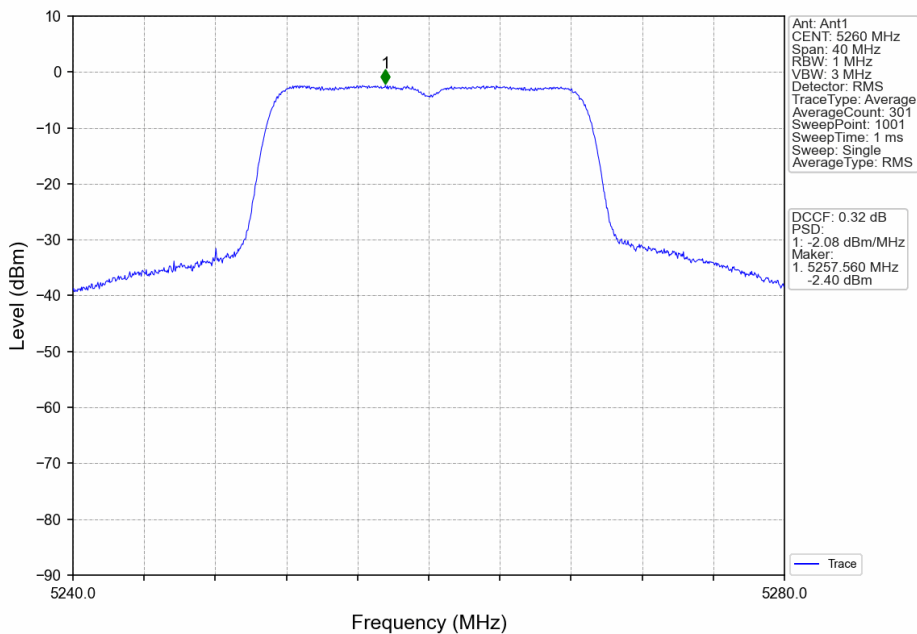
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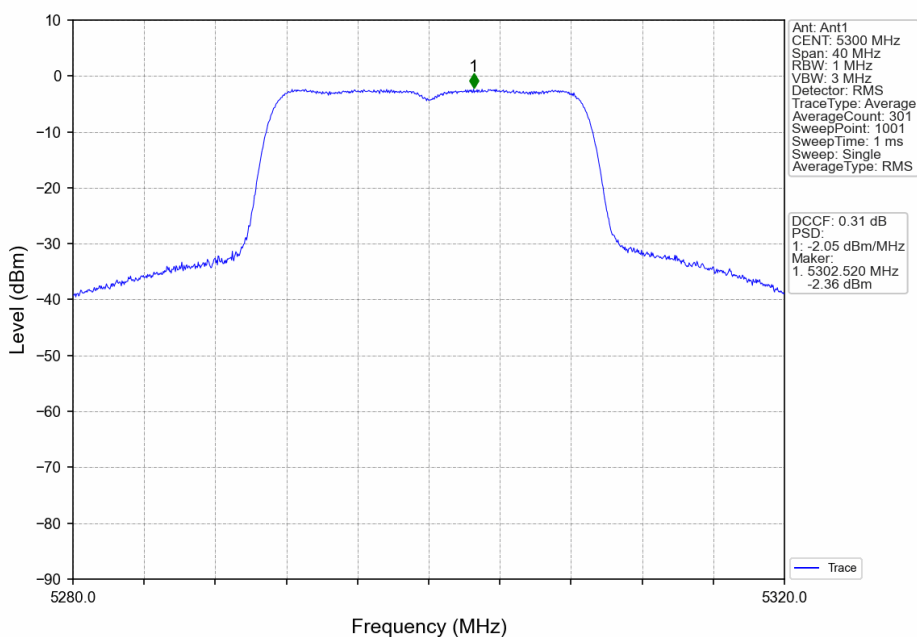
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802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



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