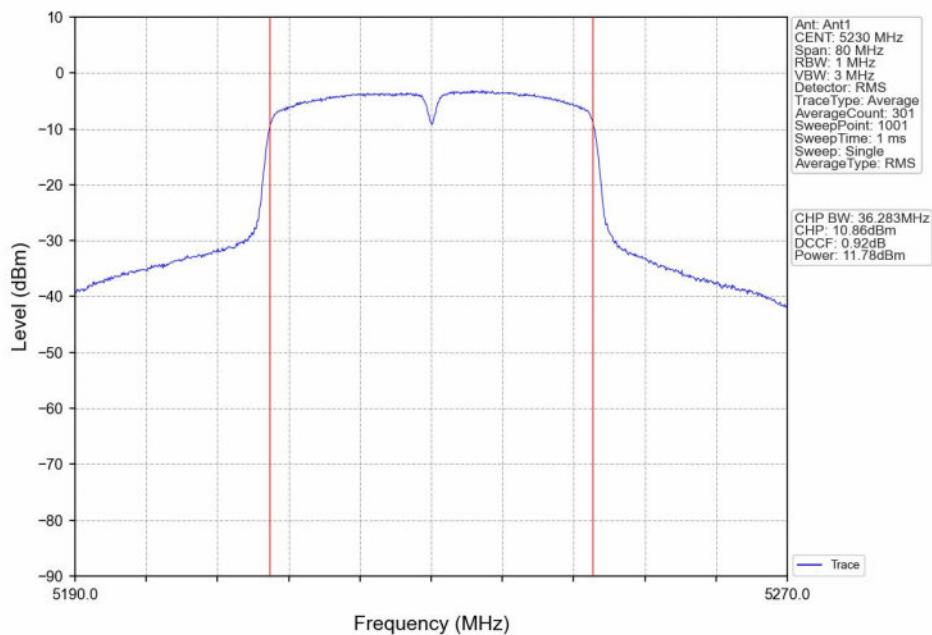
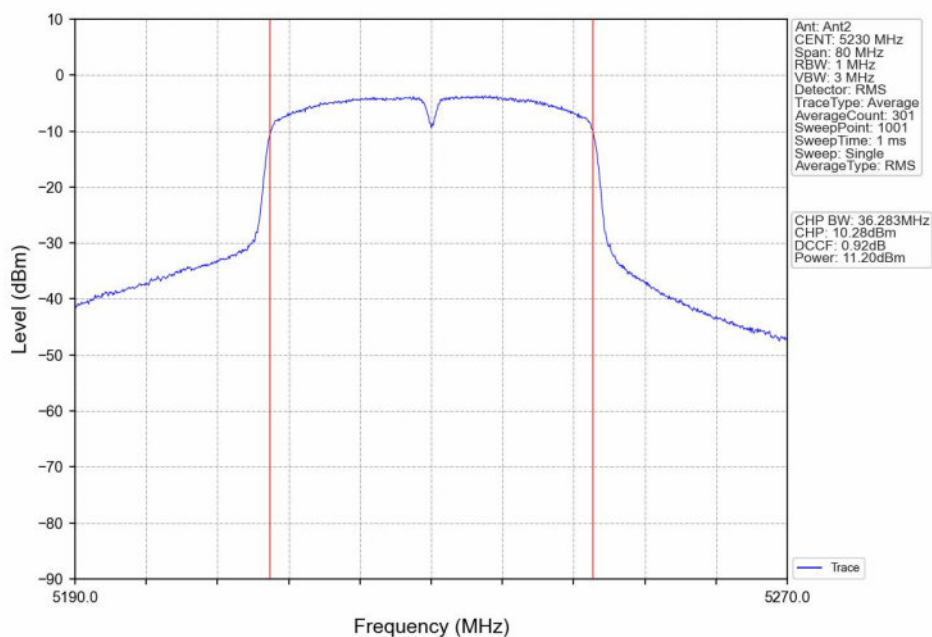


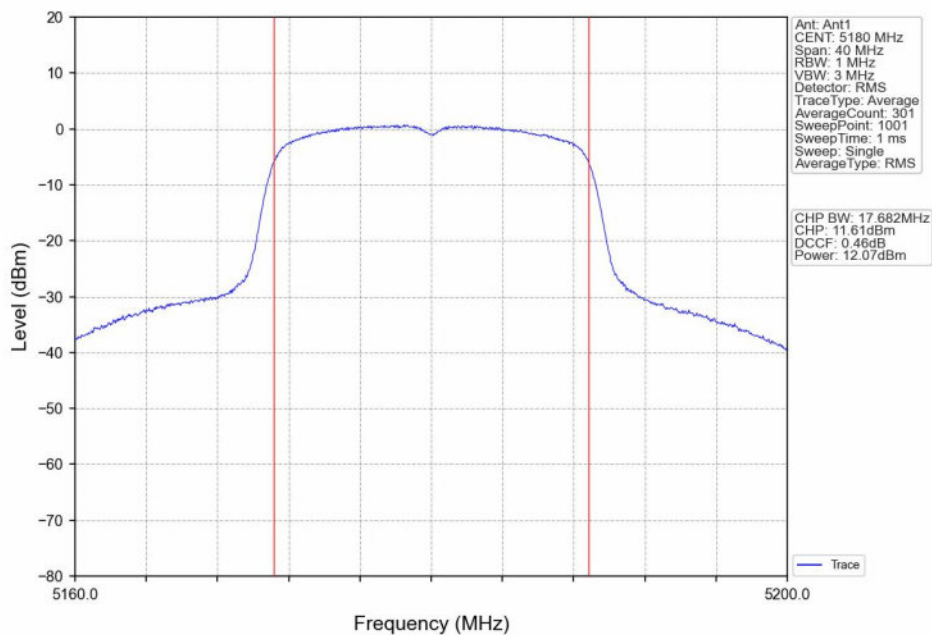
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



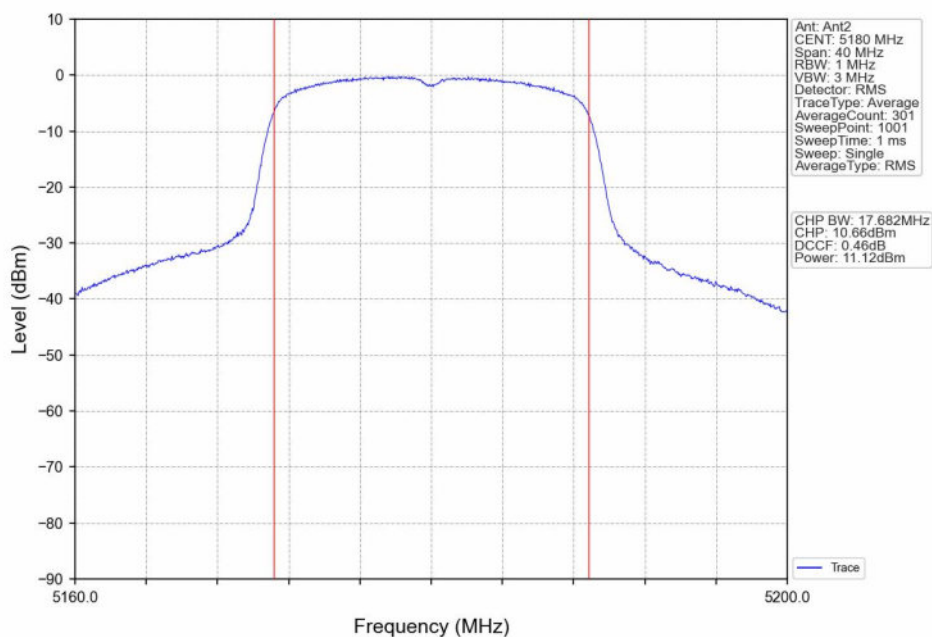
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



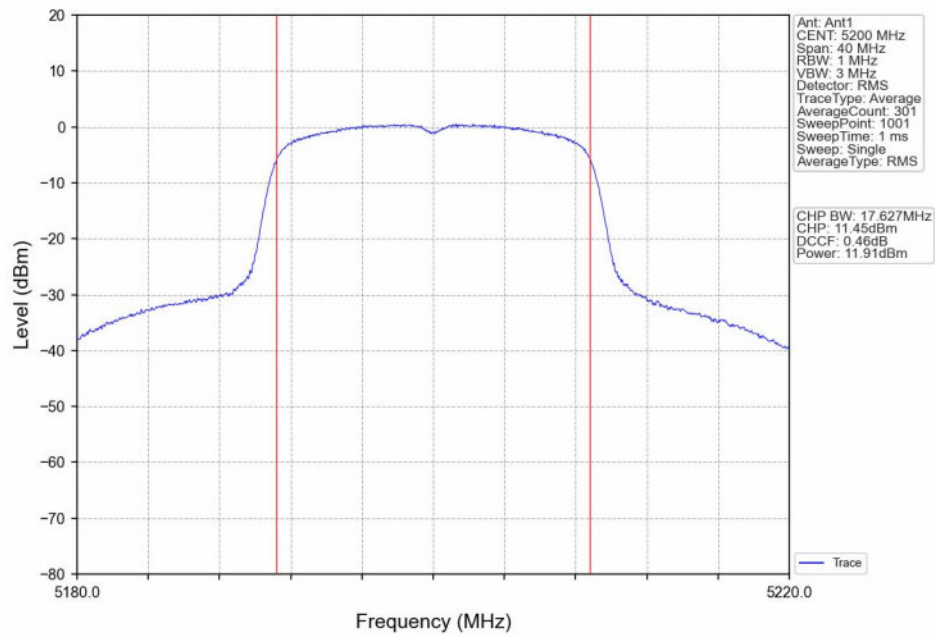
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



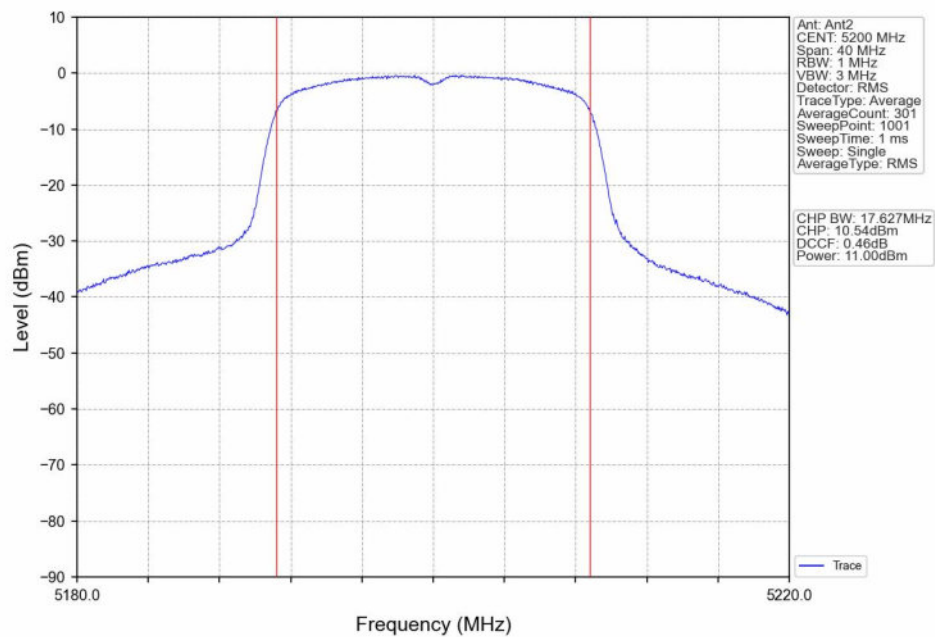
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



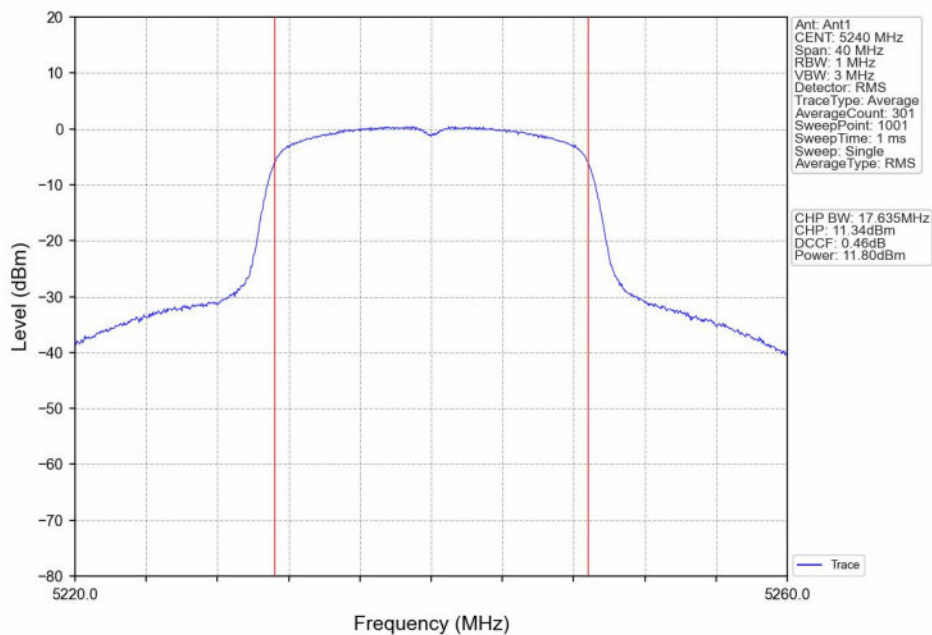
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



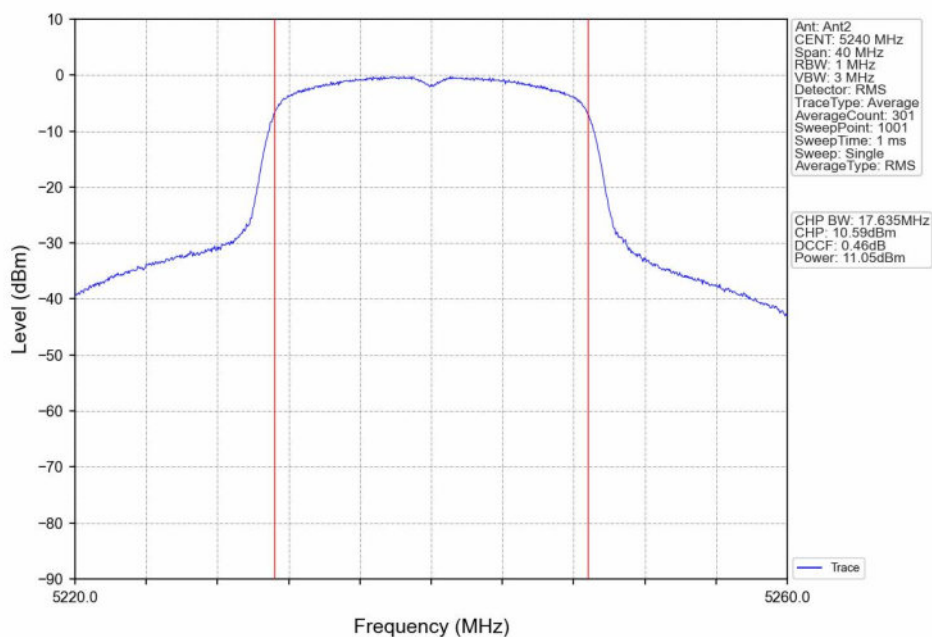
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



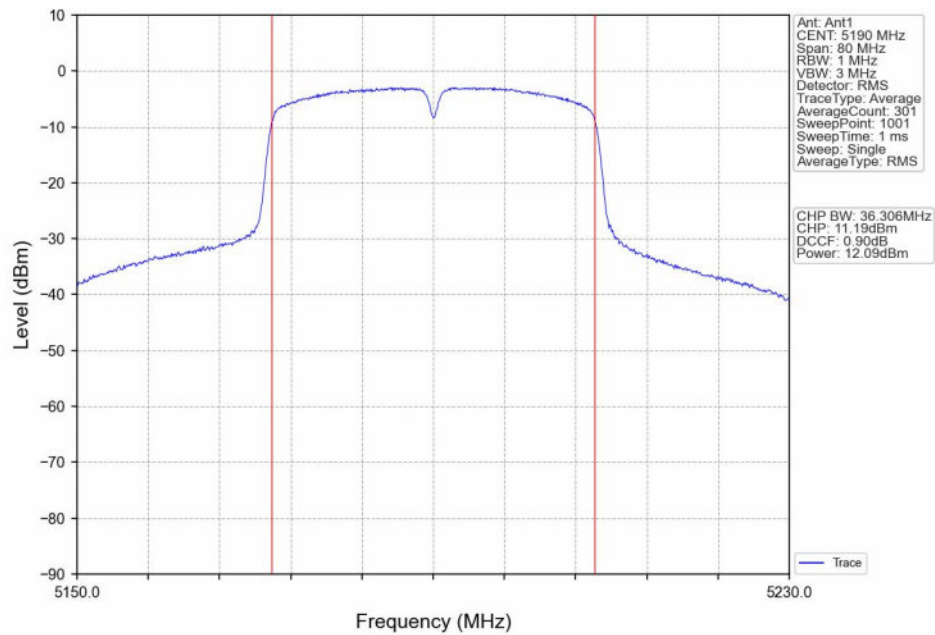
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



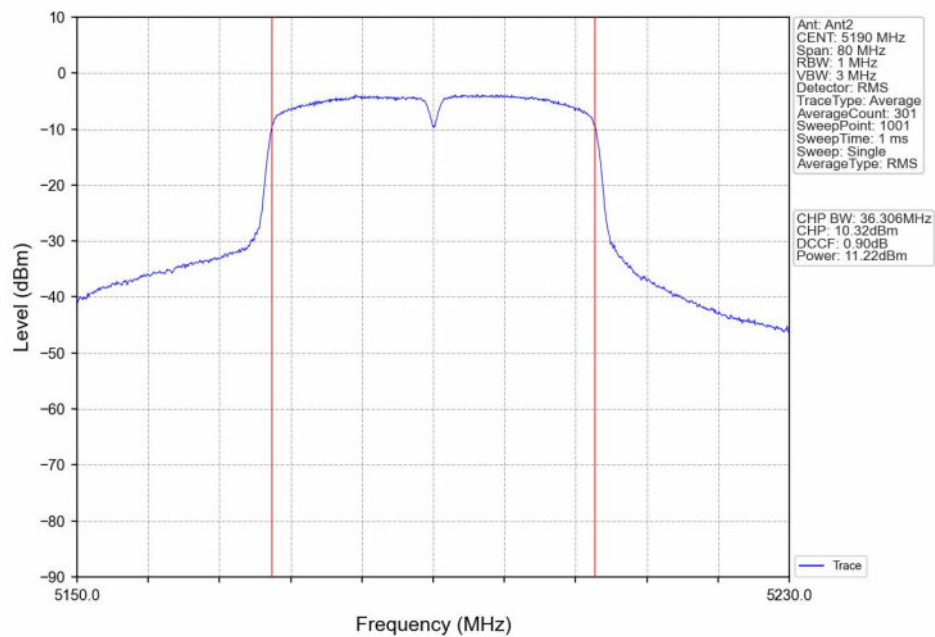
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



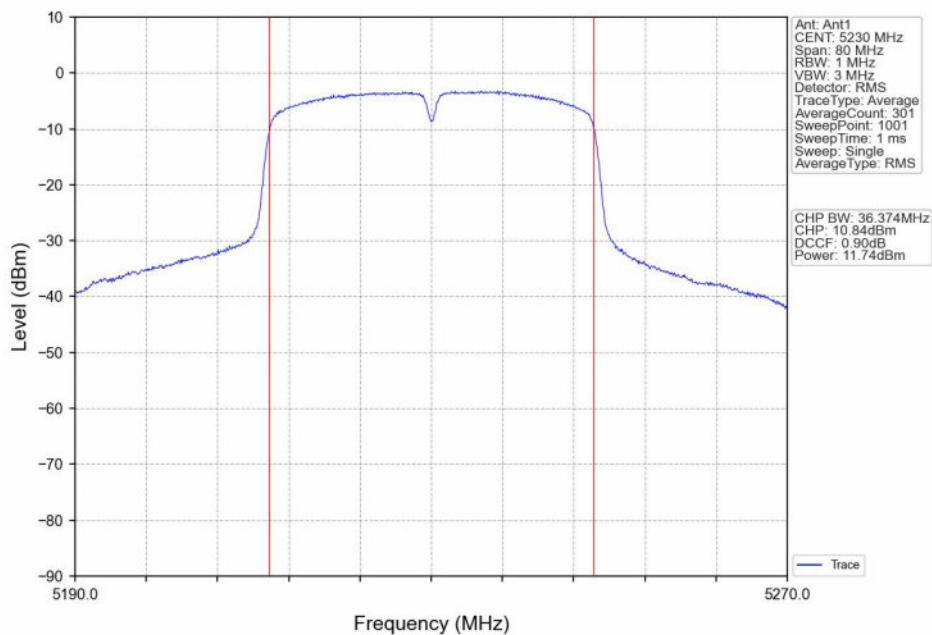
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



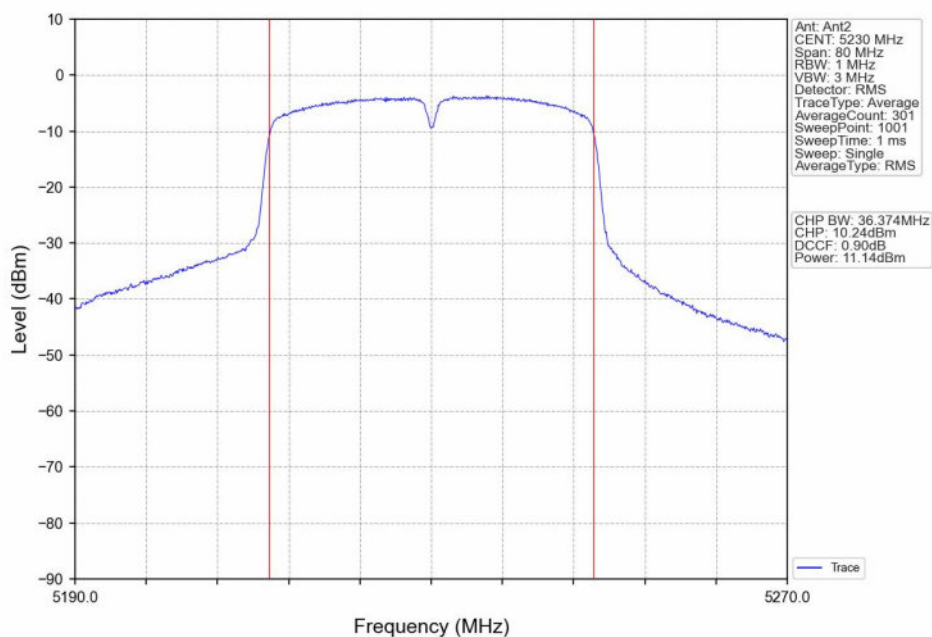
802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



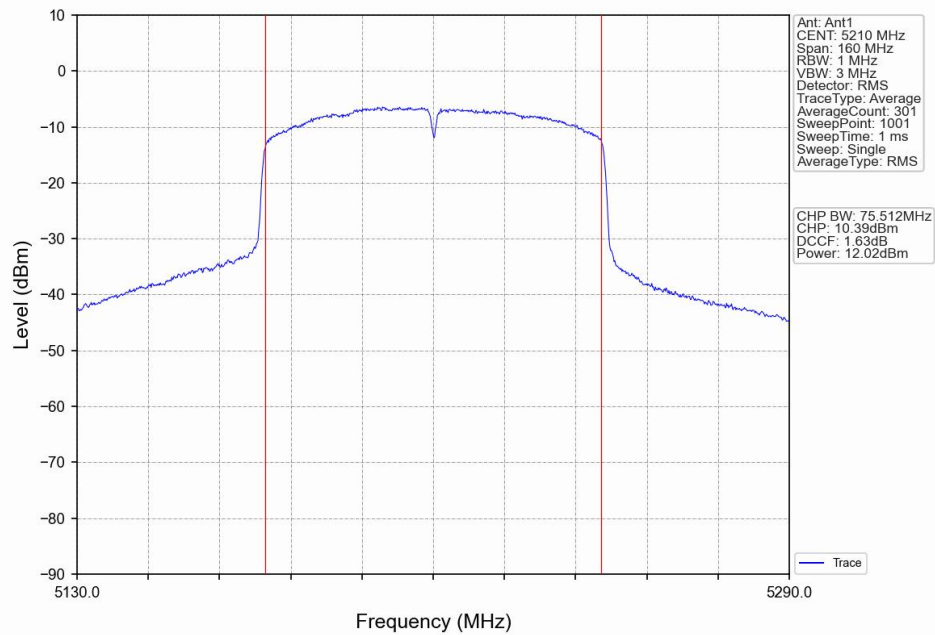
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



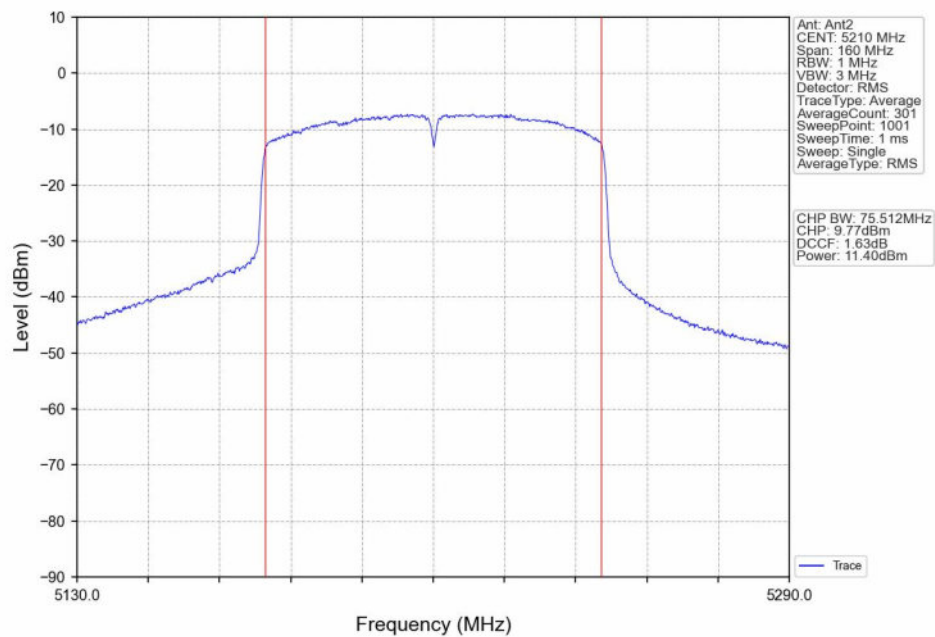
802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



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



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



### 3. Maximum Power Spectral Density

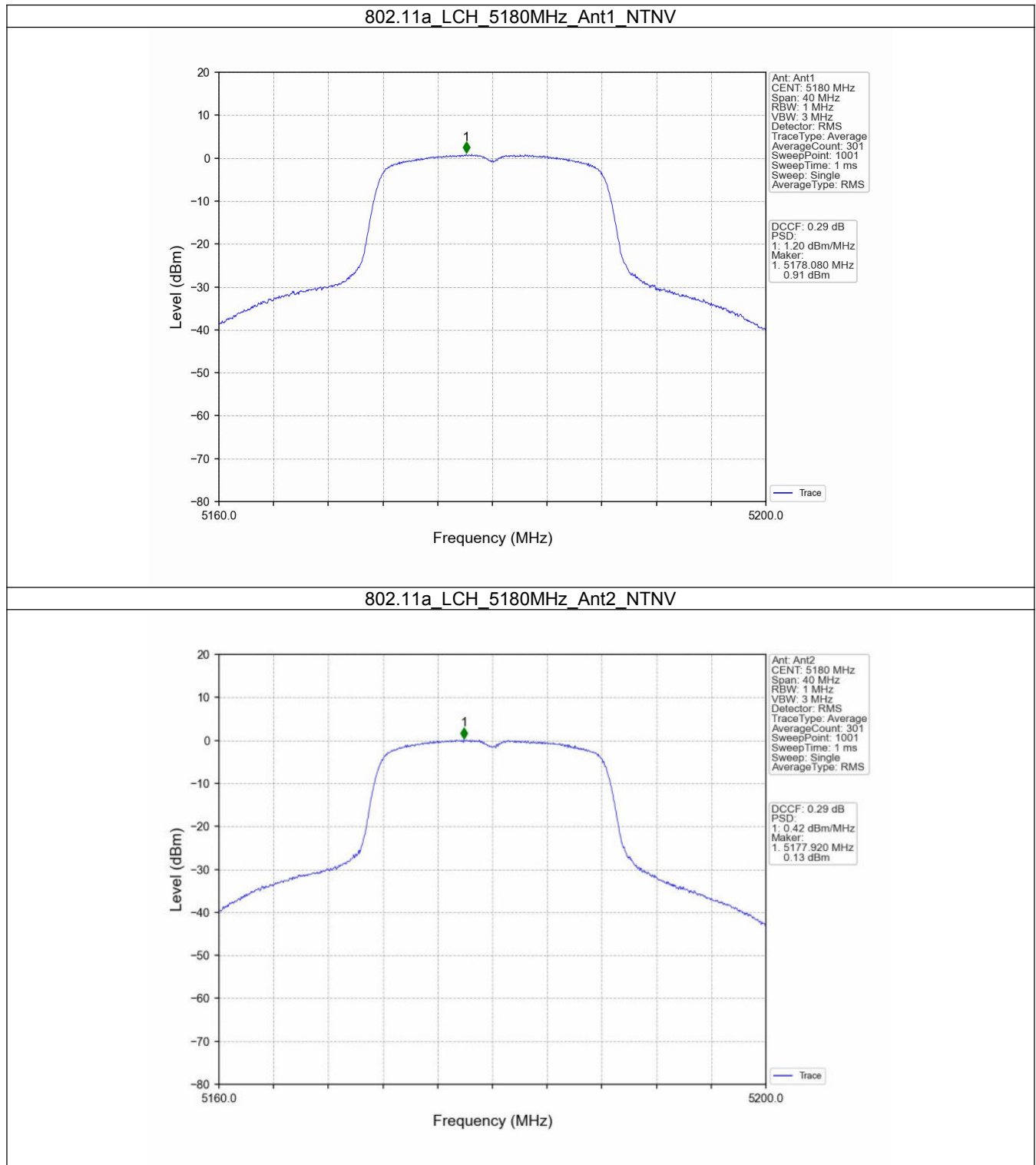
#### 3.1 PSD

##### 3.1.1 Test Result

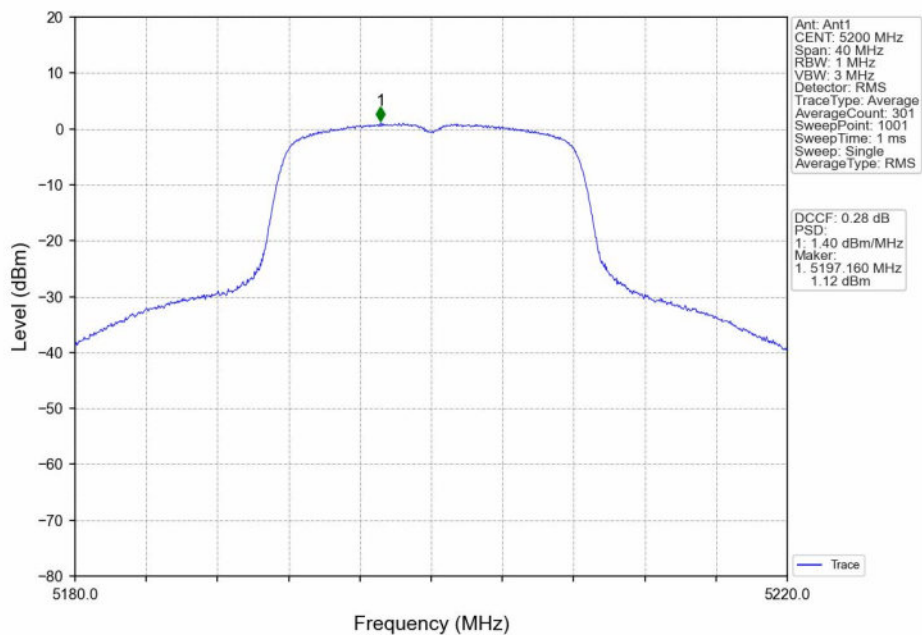
| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |       |       | Verdict |
|------------------|---------|-----------------|-----------------------|-------|-------|---------|
|                  |         |                 | ANT1                  | ANT2  | Limit |         |
| 802.11a          | SISO    | 5180            | 1.20                  | 0.42  | <=11  | Pass    |
|                  |         | 5200            | 1.40                  | 0.46  | <=11  | Pass    |
|                  |         | 5240            | 1.22                  | 0.63  | <=11  | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 0.97                  | 0.28  | <=11  | Pass    |
|                  |         | 5200            | 1.09                  | 0.24  | <=11  | Pass    |
|                  |         | 5240            | 0.86                  | 0.17  | <=11  | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | -2.10                 | -2.90 | <=11  | Pass    |
|                  |         | 5230            | -2.11                 | -2.64 | <=11  | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1.20                  | 0.28  | <=11  | Pass    |
|                  |         | 5200            | 1.02                  | -0.06 | <=11  | Pass    |
|                  |         | 5240            | 0.85                  | 0.26  | <=11  | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | -1.83                 | -2.85 | <=11  | Pass    |
|                  |         | 5230            | -2.30                 | -2.48 | <=11  | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | -5.12                 | -5.51 | <=11  | Pass    |

Note1: Antenna Gain: Ant1: 4.56dBi; Ant2: 0.37dBi;

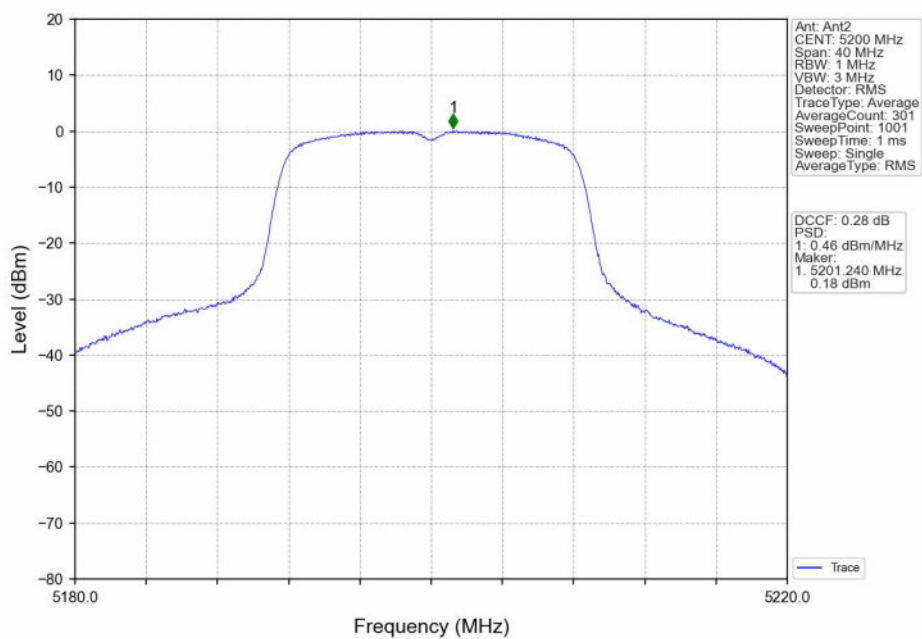
## 3.1.2 Test Graph



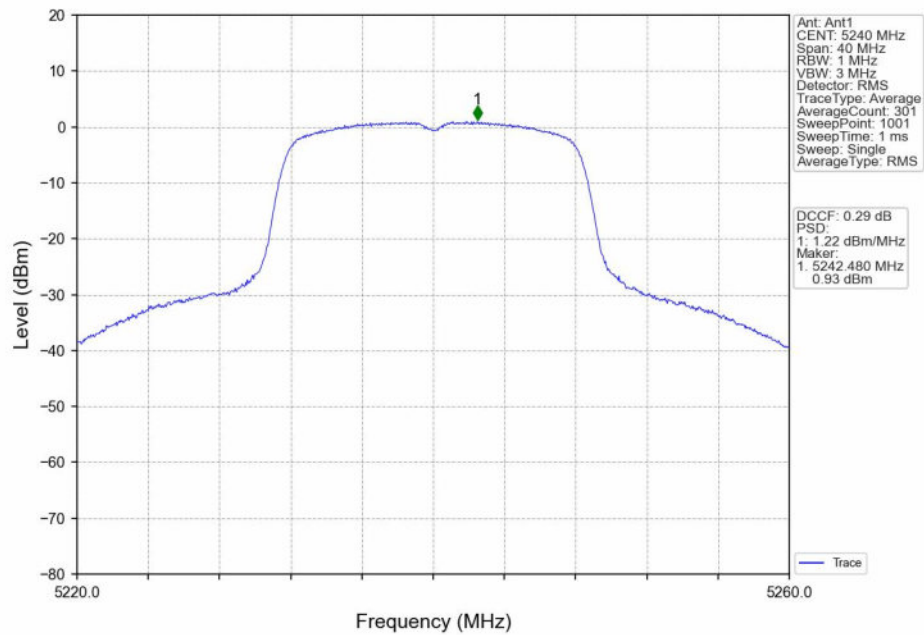
802.11a\_MCH\_5200MHz\_Ant1\_NTNV



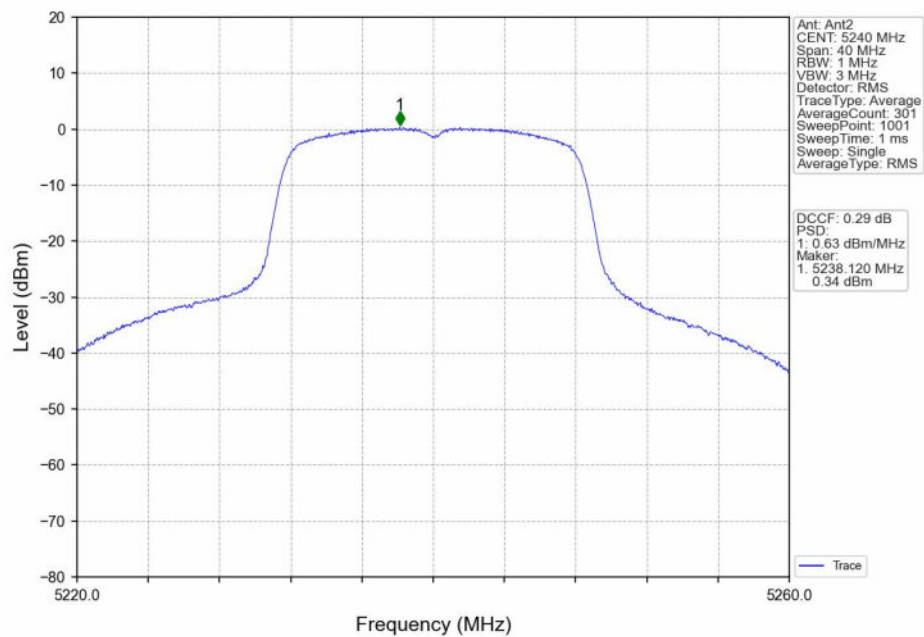
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



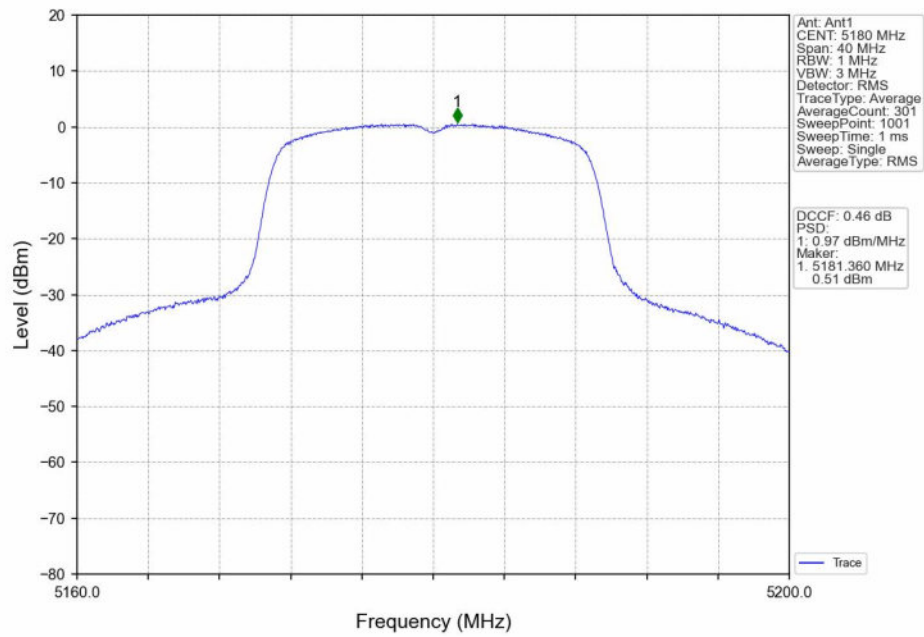
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



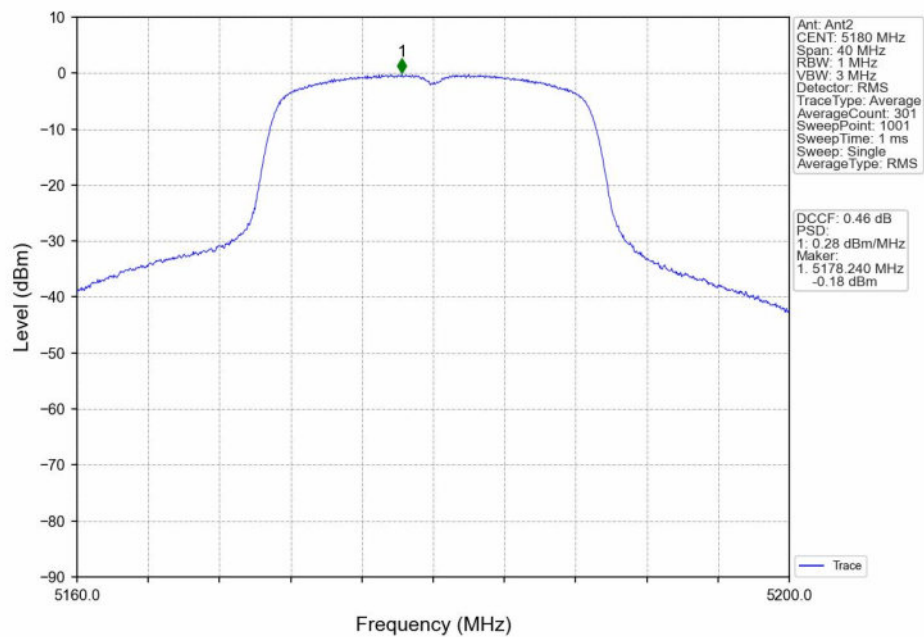
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



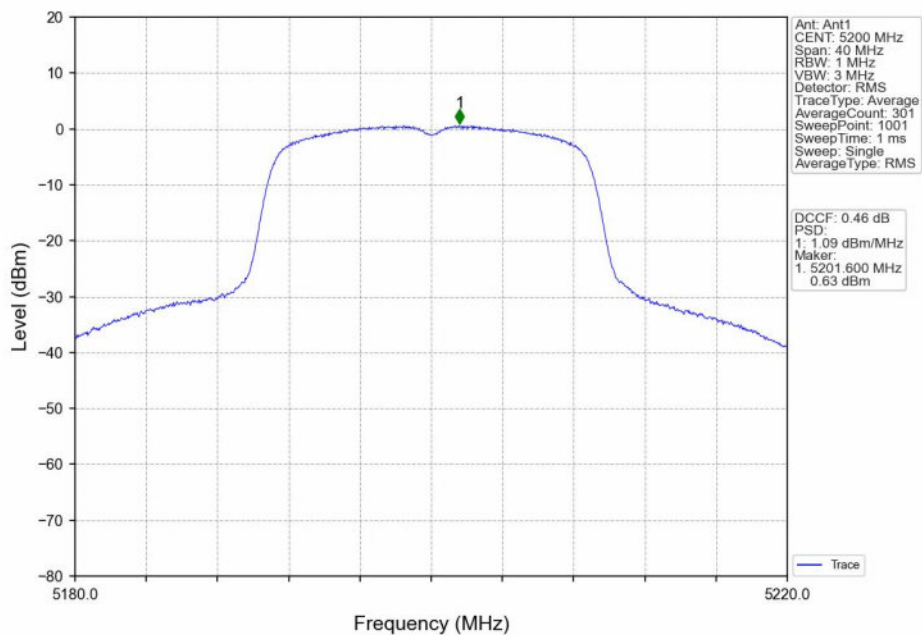
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



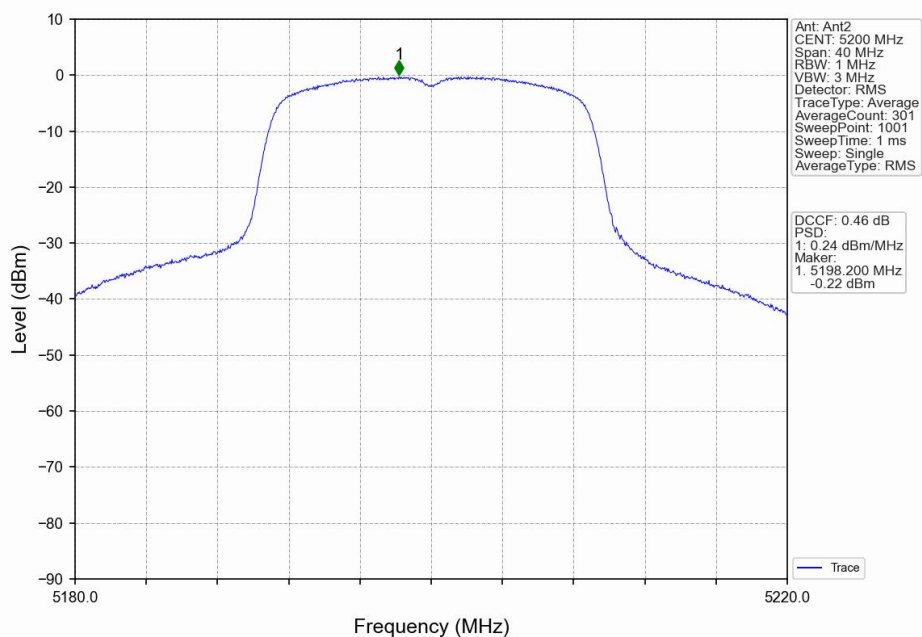
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



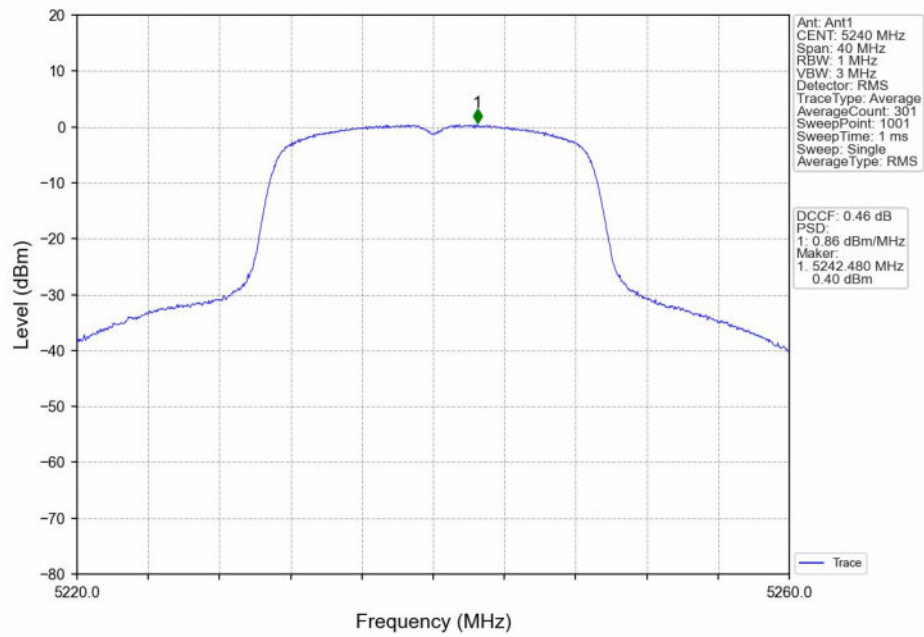
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



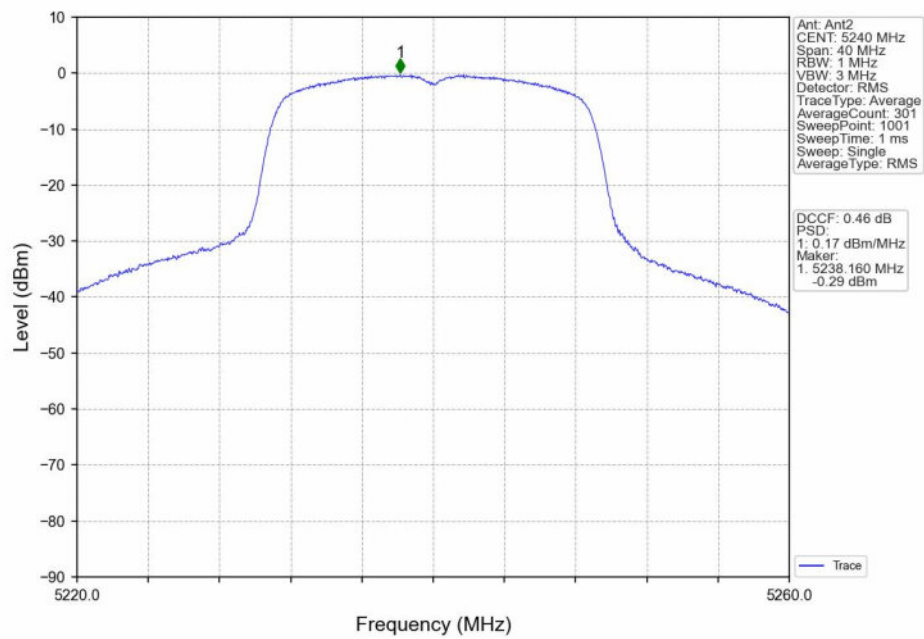
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



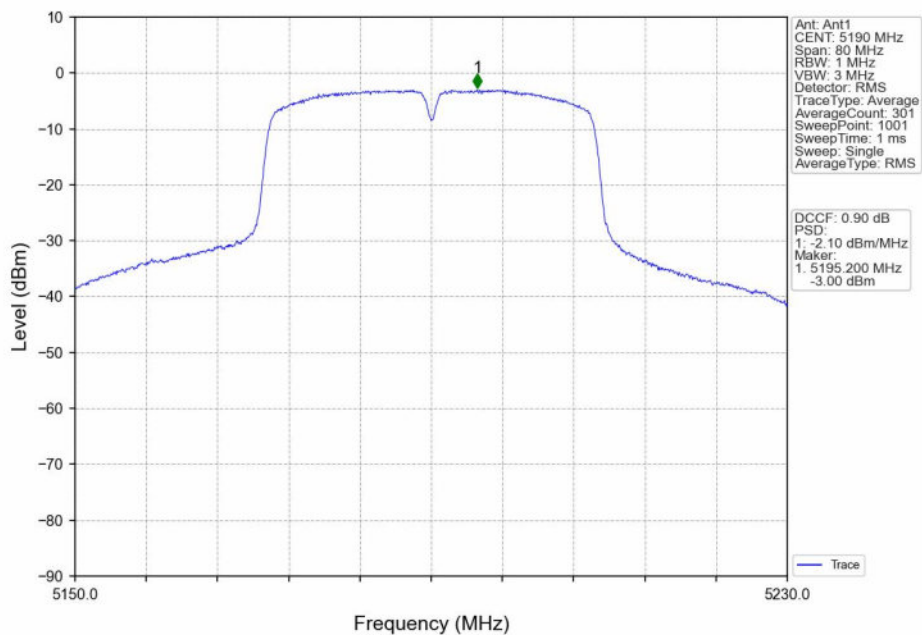
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



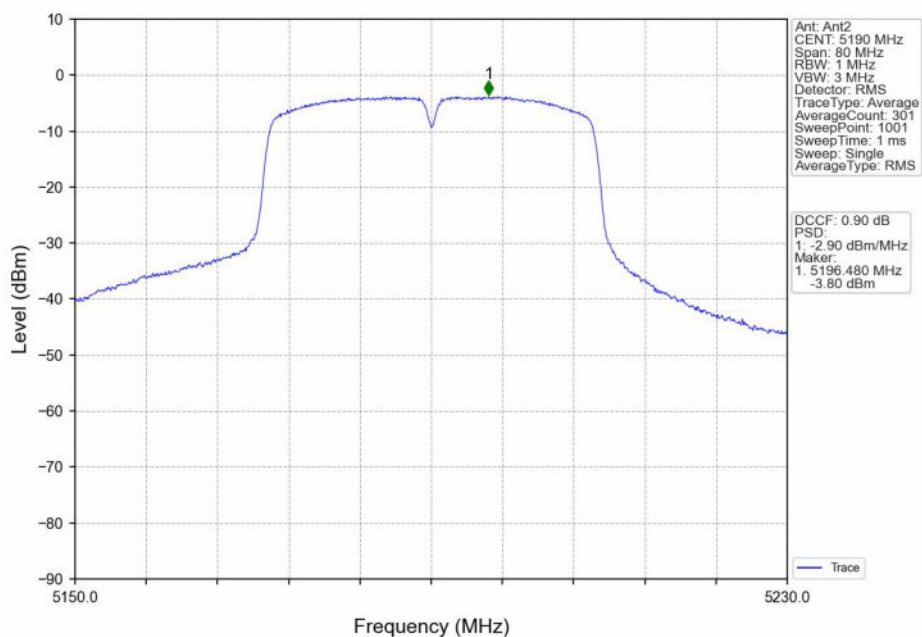
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



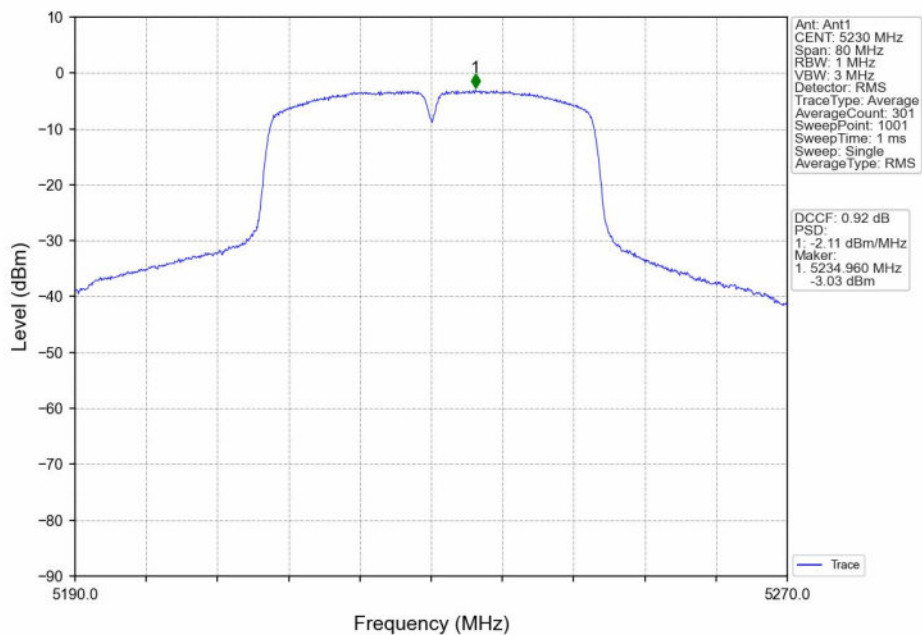
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



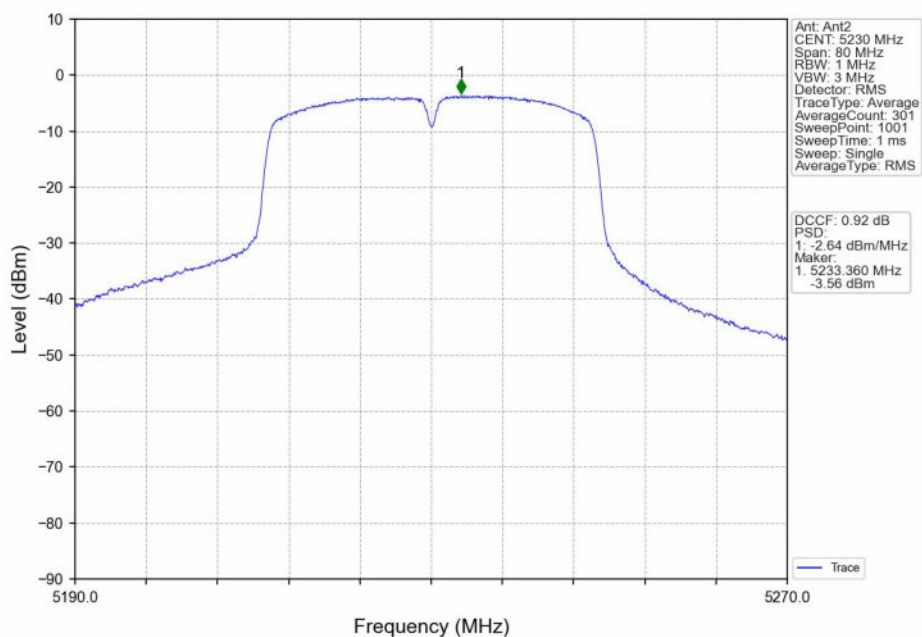
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



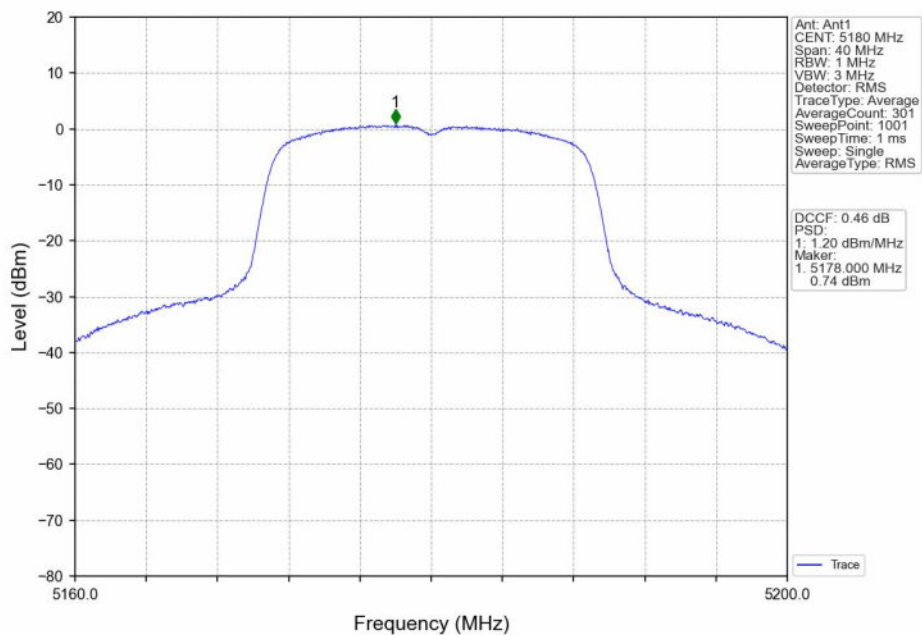
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



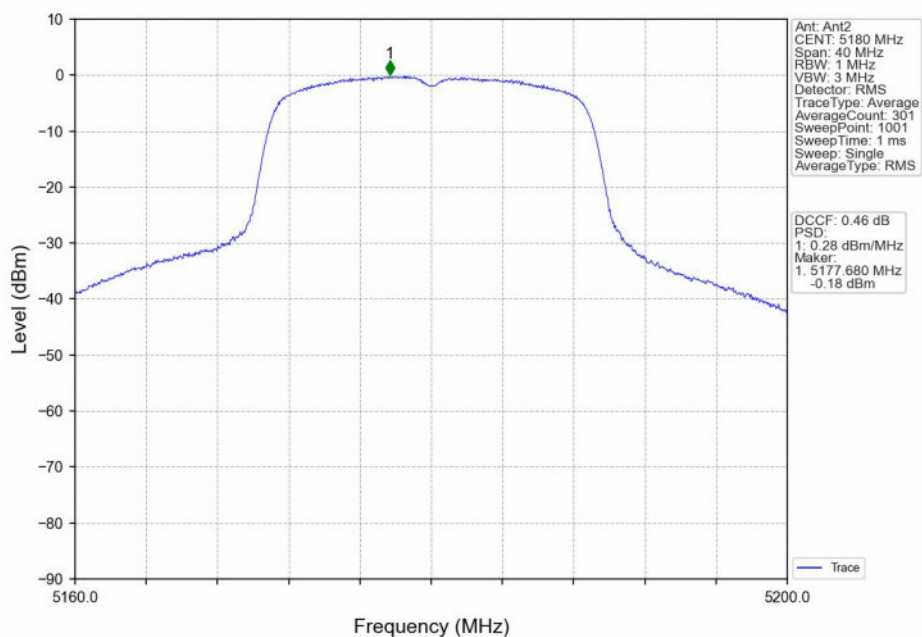
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



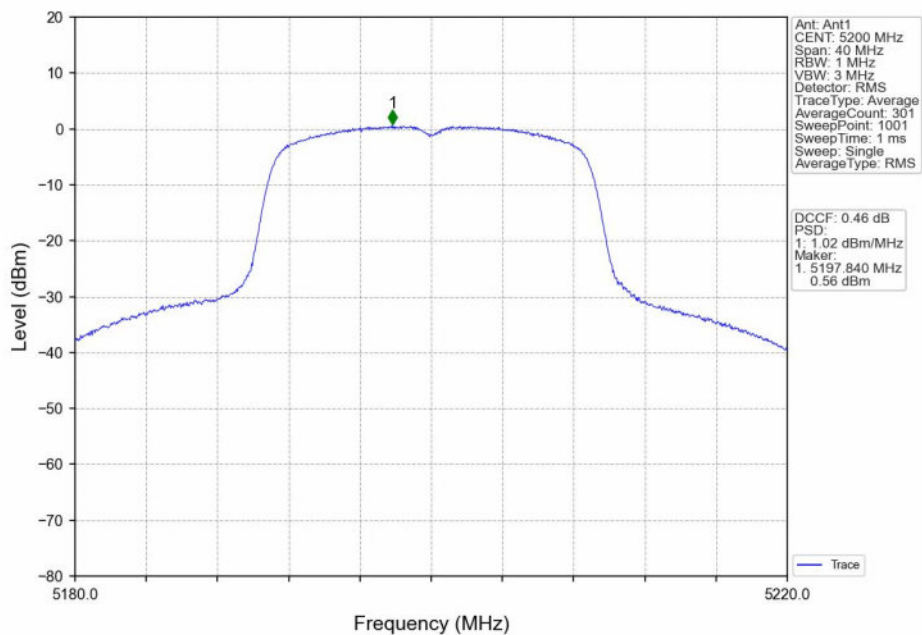
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



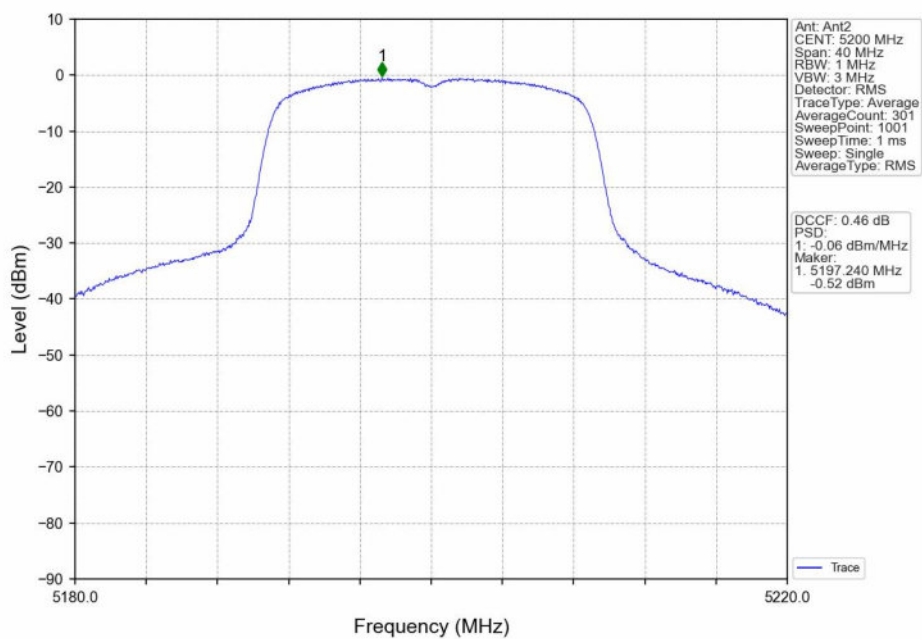
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



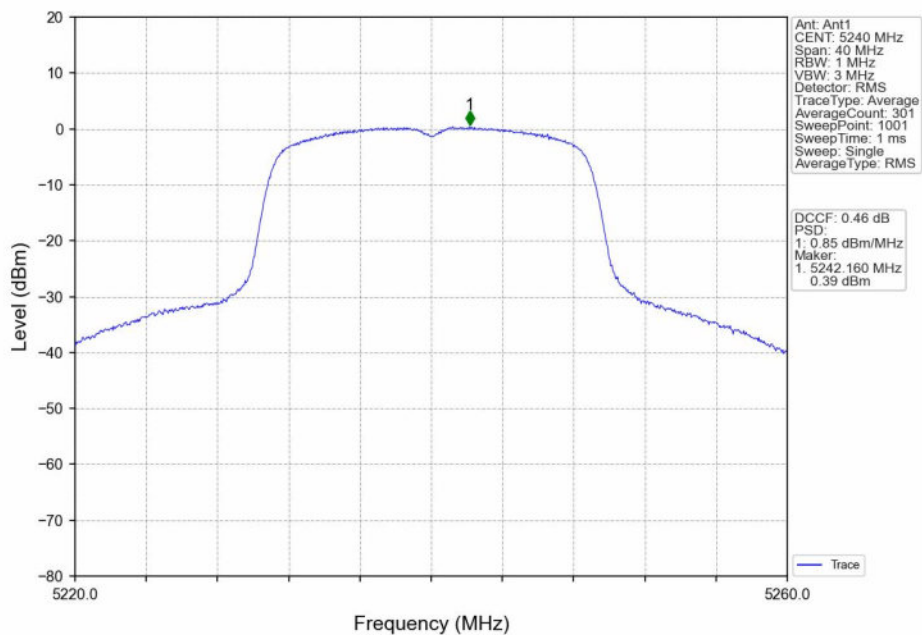
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



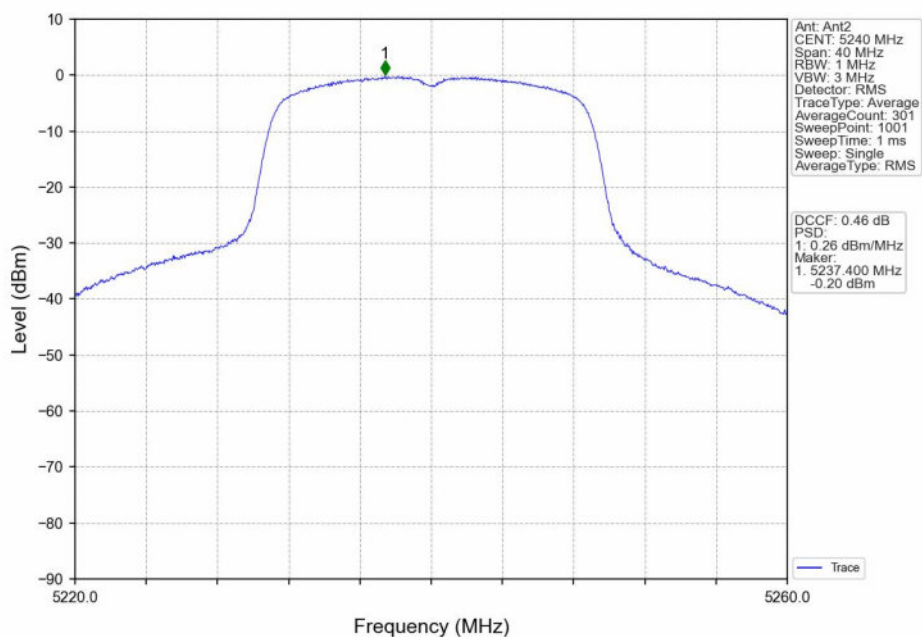
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



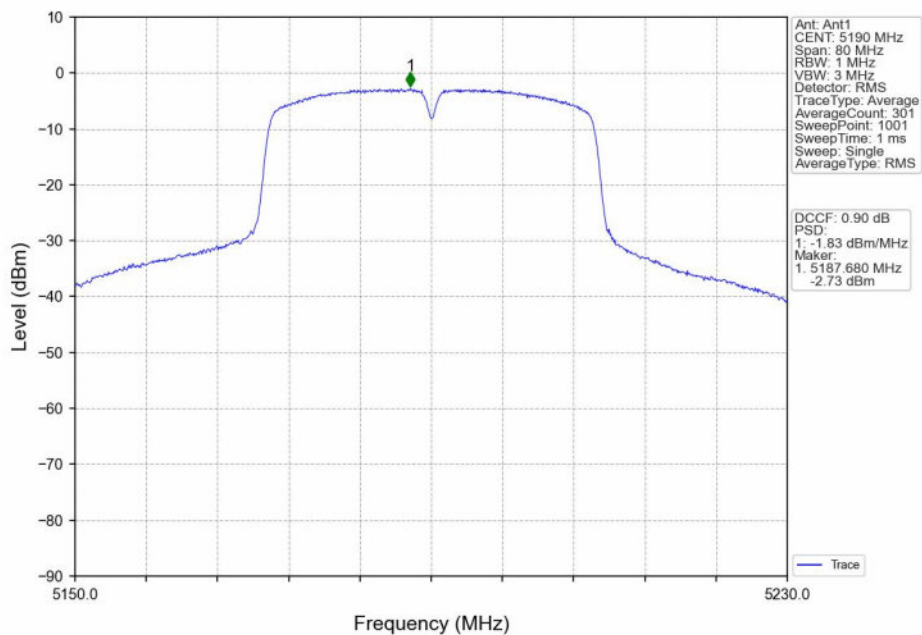
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



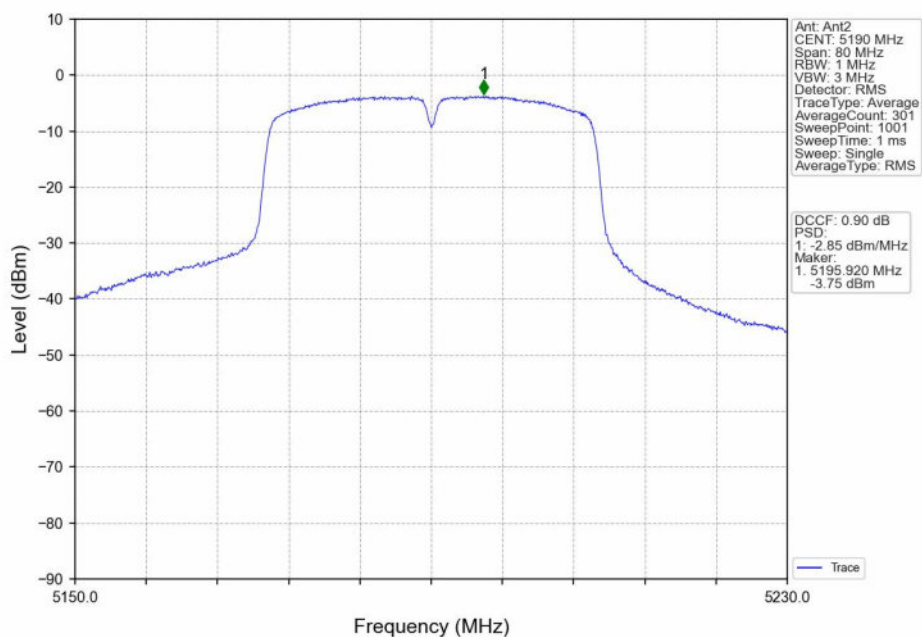
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



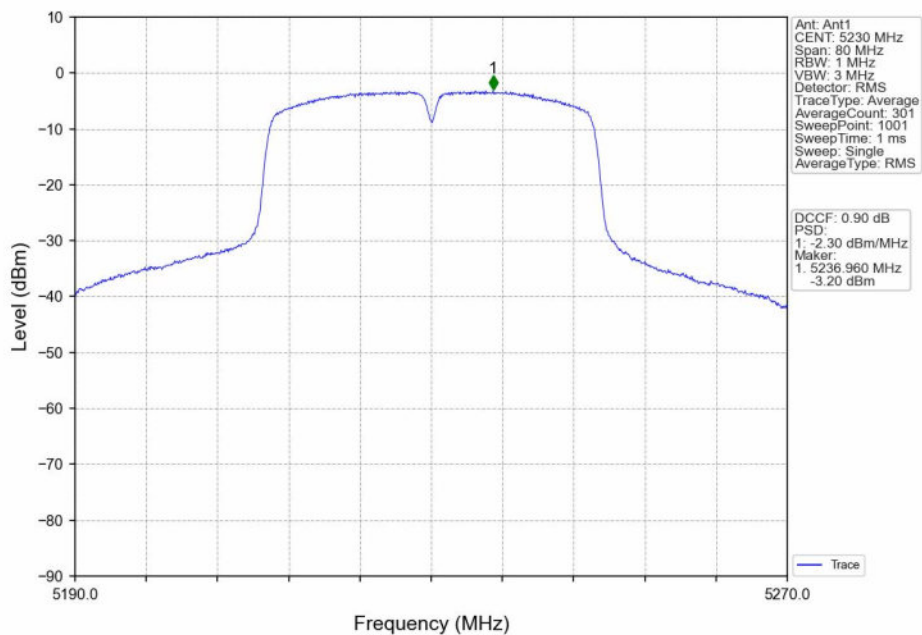
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



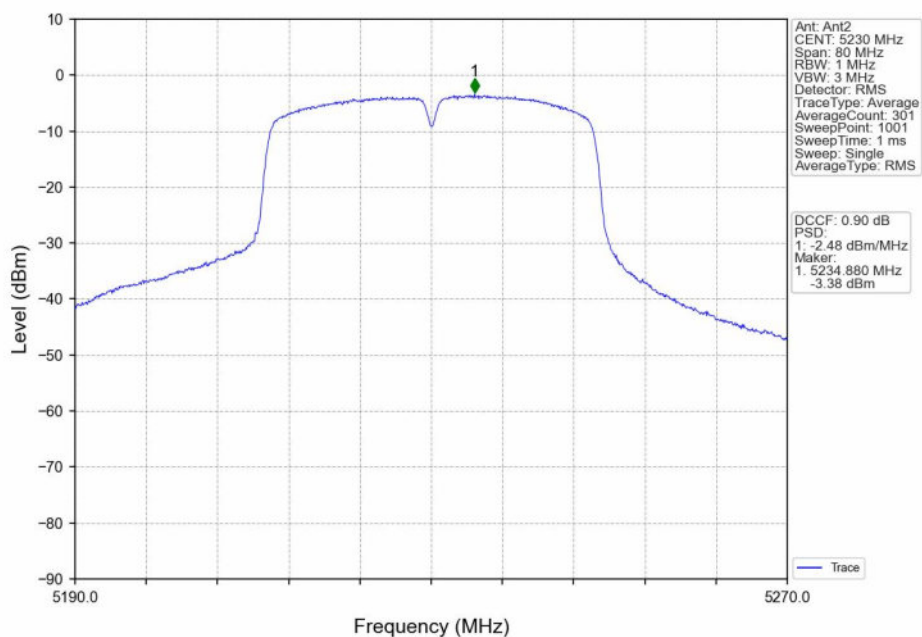
802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



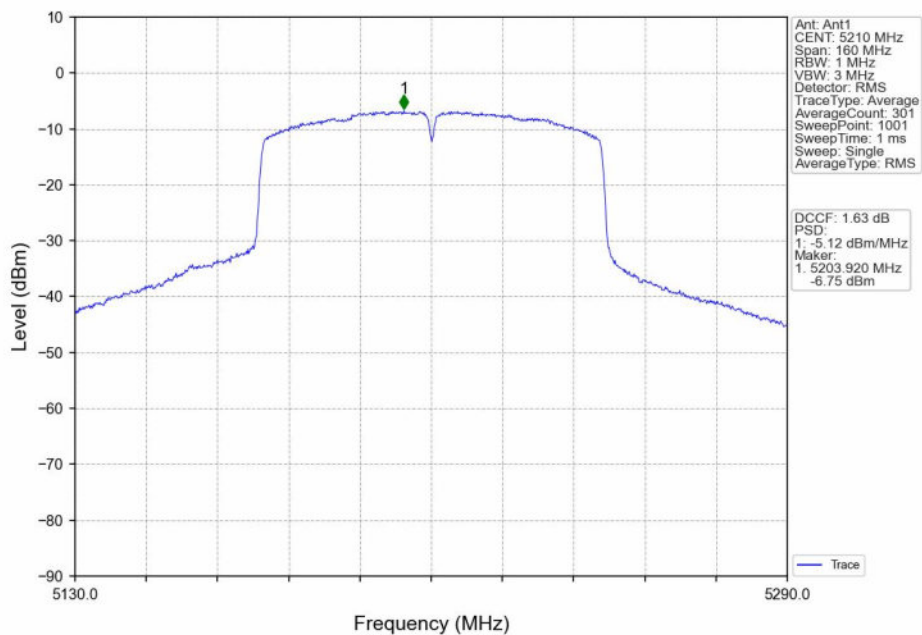
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



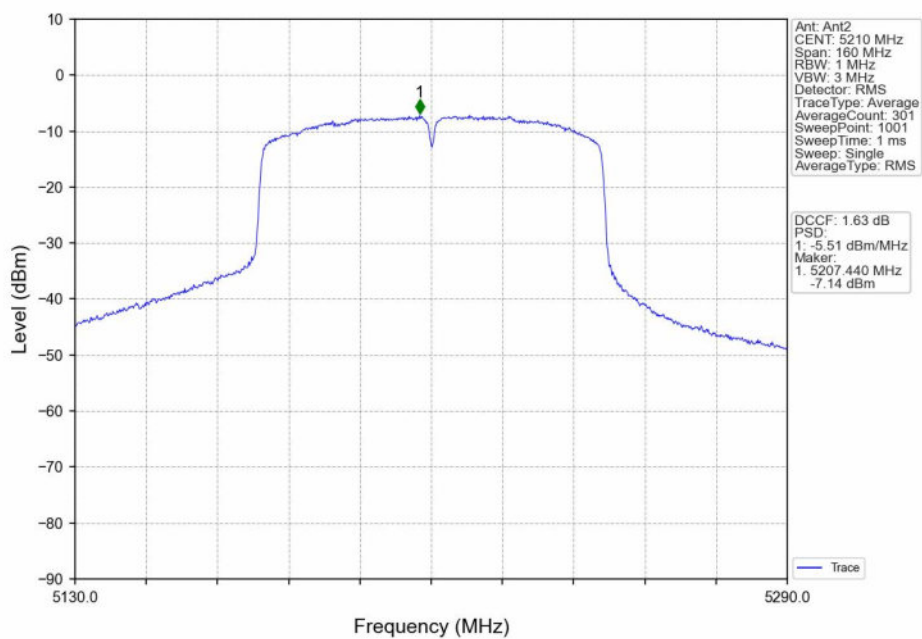
802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



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



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



## 4. Frequency Stability

### 4.1 Ant1

#### 4.1.1 Test Result

| Ant1         |         |                 |                  |               |                          |              |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
| Mode         | Tx Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5180            | 20               | 102           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         | 5200            | 20               | 102           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5199.970                 | 5150 to 5250 | Pass    |
|              |         | 5240            | 20               | 102           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5239.970                 | 5150 to 5250 | Pass    |
|              |         | 5190            | 20               | 102           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5189.970                 | 5150 to 5250 | Pass    |
|              |         | 5230            | 20               | 102           | 5229.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5229.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5229.970                 | 5150 to 5250 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -30 | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5229.970 | 5150 to 5250 | Pass |
|  |  | 5210 | 20  | 102 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5209.970 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5209.970 | 5150 to 5250 | Pass |