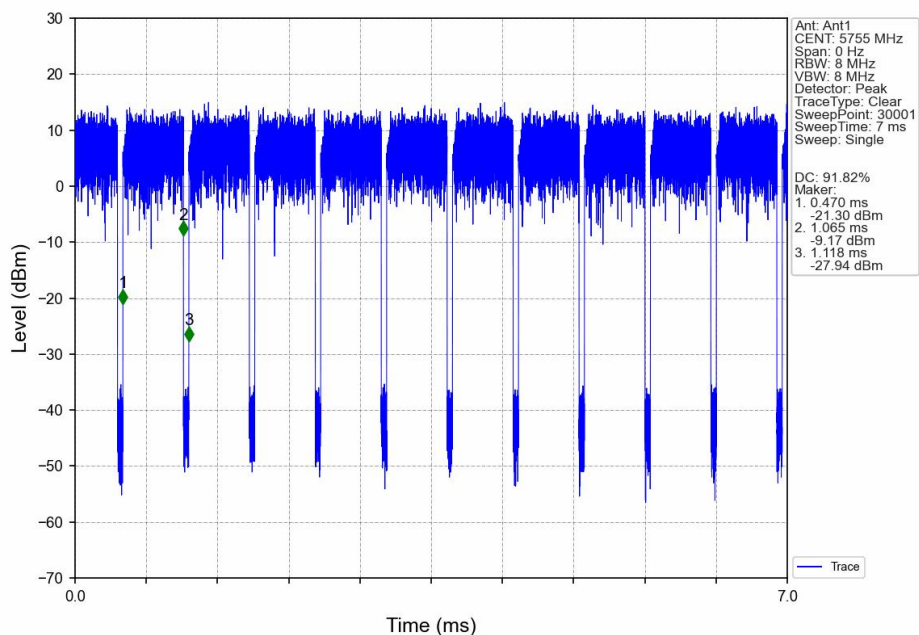
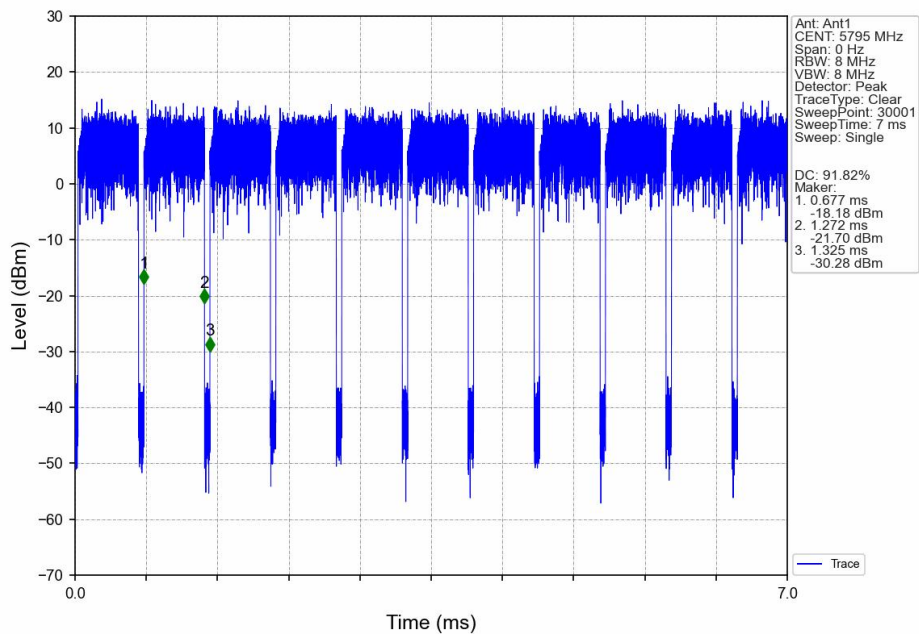


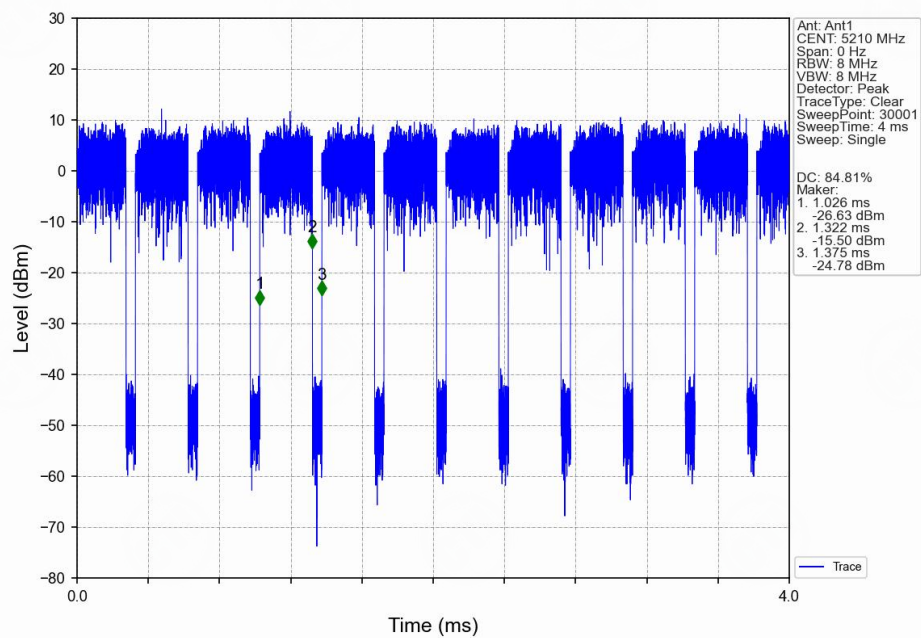
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



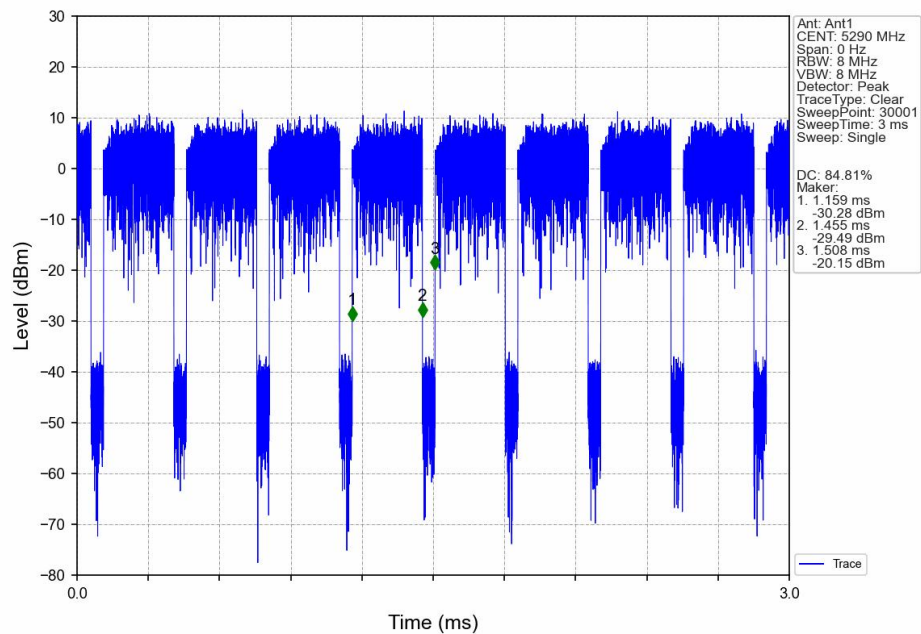
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



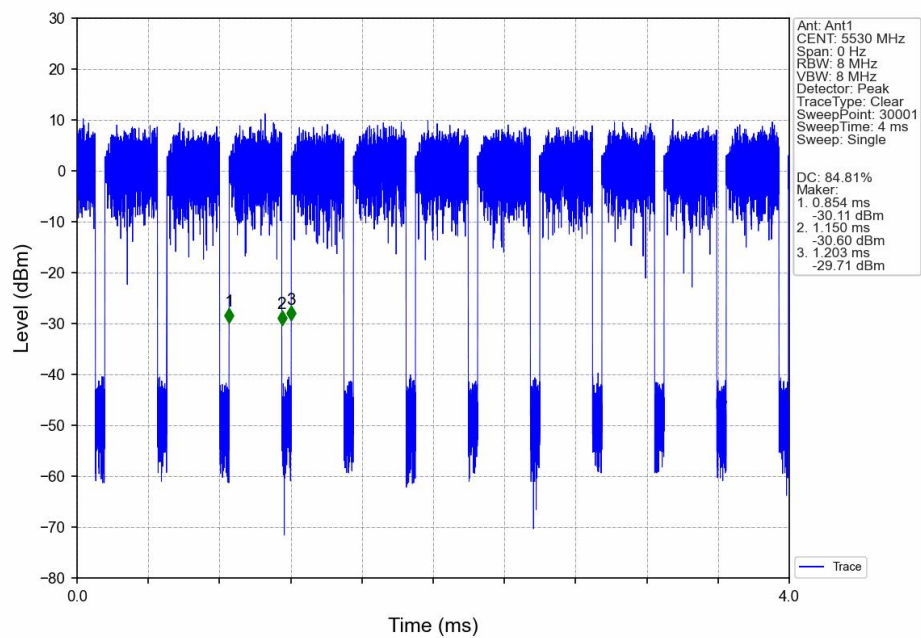
802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



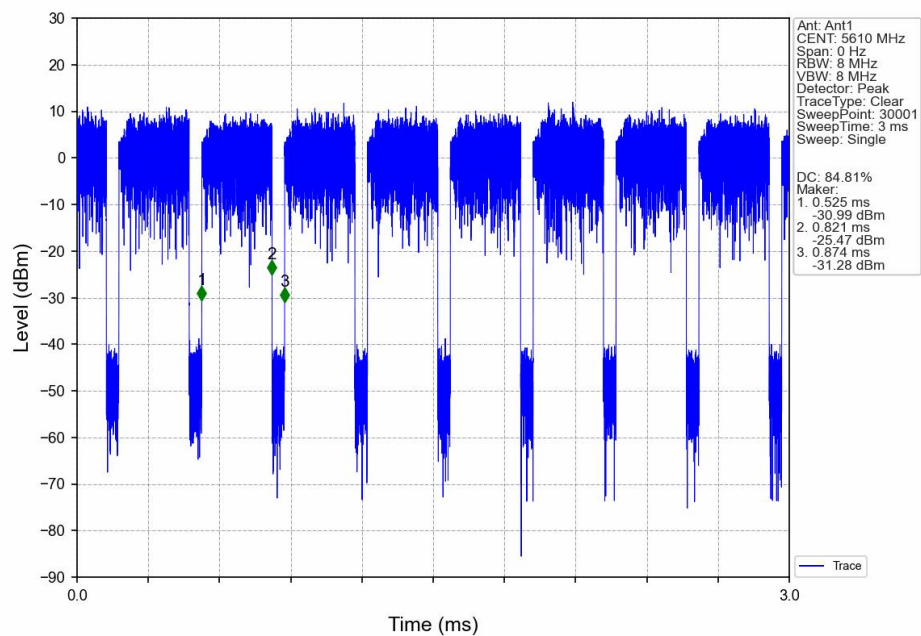
802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV

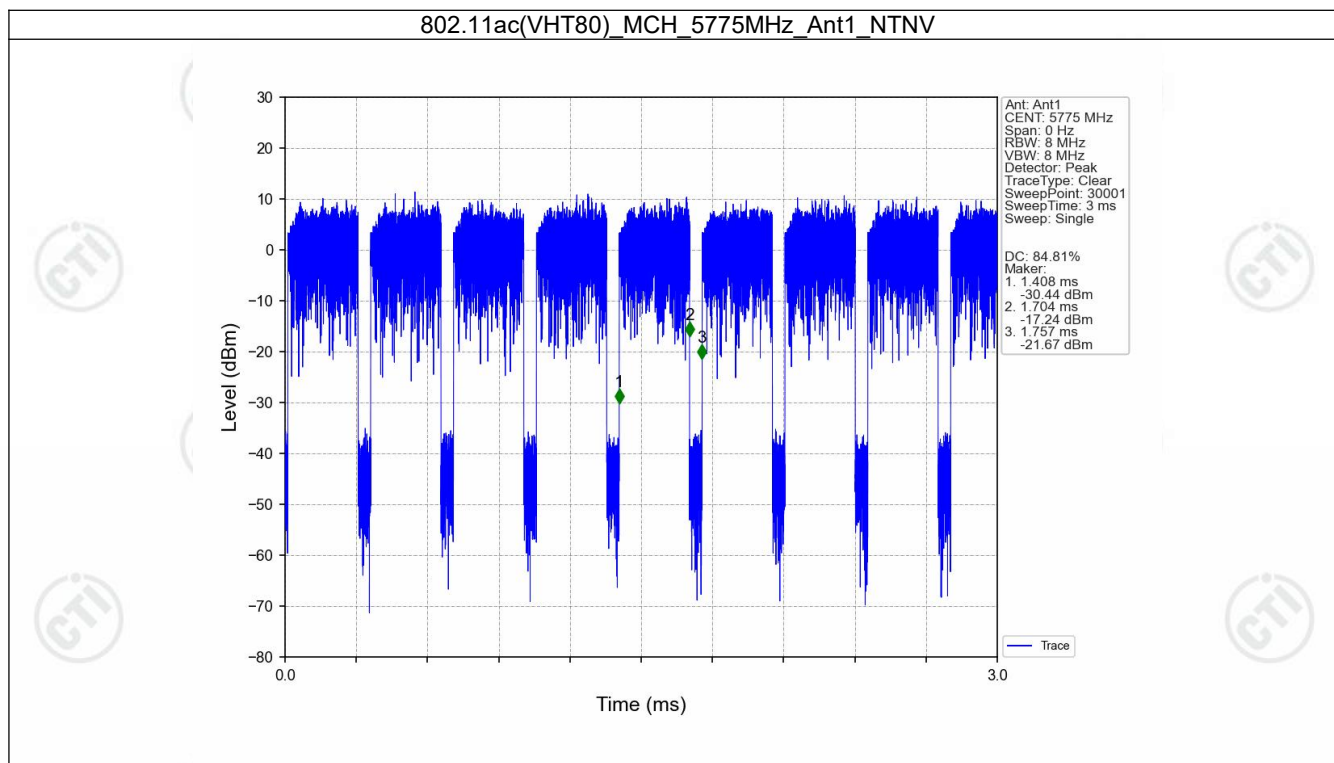


802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|------------------------------|-------|---------|
|                  |         |                 |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5180            | 1   | 16.549                       | /     | Pass    |
|                  |         | 5200            | 1   | 16.493                       | /     | Pass    |
|                  |         | 5240            | 1   | 16.520                       | /     | Pass    |
|                  |         | 5260            | 1   | 16.547                       | /     | Pass    |
|                  |         | 5300            | 1   | 16.577                       | /     | Pass    |
|                  |         | 5320            | 1   | 16.561                       | /     | Pass    |
|                  |         | 5500            | 1   | 16.525                       | /     | Pass    |
|                  |         | 5580            | 1   | 16.584                       | /     | Pass    |
|                  |         | 5700            | 1   | 16.499                       | /     | Pass    |
|                  |         | 5745            | 1   | 16.519                       | /     | Pass    |
|                  |         | 5785            | 1   | 16.616                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5825            | 1   | 16.568                       | /     | Pass    |
|                  |         | 5180            | 1   | 17.602                       | /     | Pass    |
|                  |         | 5200            | 1   | 17.633                       | /     | Pass    |
|                  |         | 5240            | 1   | 17.633                       | /     | Pass    |
|                  |         | 5260            | 1   | 17.648                       | /     | Pass    |
|                  |         | 5300            | 1   | 17.657                       | /     | Pass    |
|                  |         | 5320            | 1   | 17.636                       | /     | Pass    |
|                  |         | 5500            | 1   | 17.657                       | /     | Pass    |
|                  |         | 5580            | 1   | 17.628                       | /     | Pass    |
|                  |         | 5700            | 1   | 17.630                       | /     | Pass    |
|                  |         | 5745            | 1   | 17.678                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5785            | 1   | 17.645                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.632                       | /     | Pass    |
|                  |         | 5190            | 1   | 36.566                       | /     | Pass    |
|                  |         | 5230            | 1   | 36.486                       | /     | Pass    |
|                  |         | 5270            | 1   | 36.499                       | /     | Pass    |
|                  |         | 5310            | 1   | 36.545                       | /     | Pass    |
|                  |         | 5510            | 1   | 36.559                       | /     | Pass    |
|                  |         | 5550            | 1   | 36.584                       | /     | Pass    |
|                  |         | 5670            | 1   | 36.569                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5755            | 1   | 36.585                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.516                       | /     | Pass    |
|                  |         | 5180            | 1   | 17.664                       | /     | Pass    |
|                  |         | 5200            | 1   | 17.657                       | /     | Pass    |
|                  |         | 5240            | 1   | 17.663                       | /     | Pass    |
|                  |         | 5260            | 1   | 17.691                       | /     | Pass    |
|                  |         | 5300            | 1   | 17.649                       | /     | Pass    |
|                  |         | 5320            | 1   | 17.673                       | /     | Pass    |
|                  |         | 5500            | 1   | 17.644                       | /     | Pass    |
|                  |         | 5580            | 1   | 17.661                       | /     | Pass    |
|                  |         | 5700            | 1   | 17.666                       | /     | Pass    |
|                  |         | 5745            | 1   | 17.655                       | /     | Pass    |
|                  |         | 5785            | 1   | 17.681                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.649                       | /     | Pass    |

|                     |      |      |   |        |   |      |
|---------------------|------|------|---|--------|---|------|
| 802.11ac<br>(VHT40) | SISO | 5190 | 1 | 36.519 | / | Pass |
|                     |      | 5230 | 1 | 36.712 | / | Pass |
|                     |      | 5270 | 1 | 36.625 | / | Pass |
|                     |      | 5310 | 1 | 36.497 | / | Pass |
|                     |      | 5510 | 1 | 36.508 | / | Pass |
|                     |      | 5550 | 1 | 36.469 | / | Pass |
|                     |      | 5670 | 1 | 36.587 | / | Pass |
|                     |      | 5755 | 1 | 36.639 | / | Pass |
|                     |      | 5795 | 1 | 36.614 | / | Pass |
| 802.11ac<br>(VHT80) | SISO | 5210 | 1 | 75.649 | / | Pass |
|                     |      | 5290 | 1 | 75.566 | / | Pass |
|                     |      | 5530 | 1 | 75.609 | / | Pass |
|                     |      | 5610 | 1 | 75.532 | / | Pass |
|                     |      | 5775 | 1 | 75.547 | / | Pass |

## 2.1.2 26dB BW

| Mode                | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|---------------------|---------|-----------------|-----|----------------------|-------|---------|
|                     |         |                 |     | Result               | Limit |         |
| 802.11a             | SISO    | 5180            | 1   | 22.770               | /     | Pass    |
|                     |         | 5200            | 1   | 19.725               | /     | Pass    |
|                     |         | 5240            | 1   | 20.568               | /     | Pass    |
|                     |         | 5260            | 1   | 20.313               | /     | Pass    |
|                     |         | 5300            | 1   | 25.874               | /     | Pass    |
|                     |         | 5320            | 1   | 26.364               | /     | Pass    |
|                     |         | 5500            | 1   | 19.277               | /     | Pass    |
|                     |         | 5580            | 1   | 19.675               | /     | Pass    |
|                     |         | 5700            | 1   | 21.294               | /     | Pass    |
| 802.11n<br>(HT20)   | SISO    | 5180            | 1   | 27.943               | /     | Pass    |
|                     |         | 5200            | 1   | 19.730               | /     | Pass    |
|                     |         | 5240            | 1   | 29.545               | /     | Pass    |
|                     |         | 5260            | 1   | 24.229               | /     | Pass    |
|                     |         | 5300            | 1   | 19.848               | /     | Pass    |
|                     |         | 5320            | 1   | 23.447               | /     | Pass    |
|                     |         | 5500            | 1   | 26.443               | /     | Pass    |
|                     |         | 5580            | 1   | 19.876               | /     | Pass    |
|                     |         | 5700            | 1   | 27.080               | /     | Pass    |
| 802.11n<br>(HT40)   | SISO    | 5190            | 1   | 41.551               | /     | Pass    |
|                     |         | 5230            | 1   | 48.406               | /     | Pass    |
|                     |         | 5270            | 1   | 45.692               | /     | Pass    |
|                     |         | 5310            | 1   | 45.007               | /     | Pass    |
|                     |         | 5510            | 1   | 50.885               | /     | Pass    |
|                     |         | 5550            | 1   | 50.232               | /     | Pass    |
|                     |         | 5670            | 1   | 43.868               | /     | Pass    |
| 802.11ac<br>(VHT20) | SISO    | 5180            | 1   | 24.499               | /     | Pass    |
|                     |         | 5200            | 1   | 25.891               | /     | Pass    |
|                     |         | 5240            | 1   | 26.927               | /     | Pass    |
|                     |         | 5260            | 1   | 19.990               | /     | Pass    |
|                     |         | 5300            | 1   | 21.755               | /     | Pass    |
|                     |         | 5320            | 1   | 24.904               | /     | Pass    |
|                     |         | 5500            | 1   | 24.615               | /     | Pass    |
|                     |         | 5580            | 1   | 32.136               | /     | Pass    |
| 802.11ac<br>(VHT40) | SISO    | 5700            | 1   | 24.810               | /     | Pass    |
|                     |         | 5190            | 1   | 51.394               | /     | Pass    |
|                     |         | 5230            | 1   | 48.077               | /     | Pass    |
|                     |         | 5270            | 1   | 50.657               | /     | Pass    |

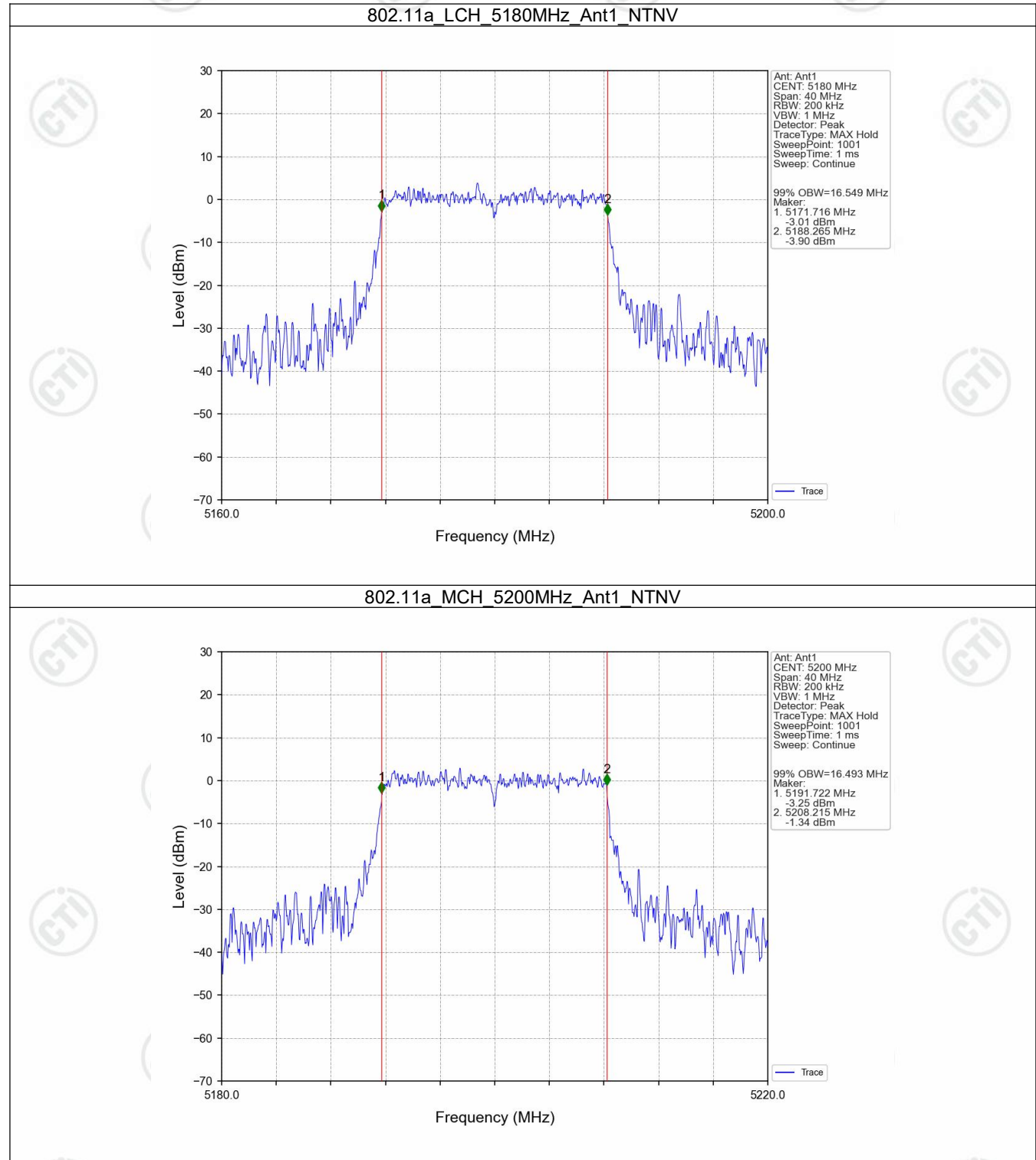
|                     |      |      |   |        |   |      |
|---------------------|------|------|---|--------|---|------|
| 802.11ac<br>(VHT80) | SISO | 5310 | 1 | 46.595 | / | Pass |
|                     |      | 5510 | 1 | 51.390 | / | Pass |
|                     |      | 5550 | 1 | 49.120 | / | Pass |
|                     |      | 5670 | 1 | 47.905 | / | Pass |
|                     |      | 5210 | 1 | 83.833 | / | Pass |
|                     |      | 5290 | 1 | 79.131 | / | Pass |
|                     |      | 5530 | 1 | 84.352 | / | Pass |
|                     |      | 5610 | 1 | 84.083 | / | Pass |

## 2.1.3 6dB BW

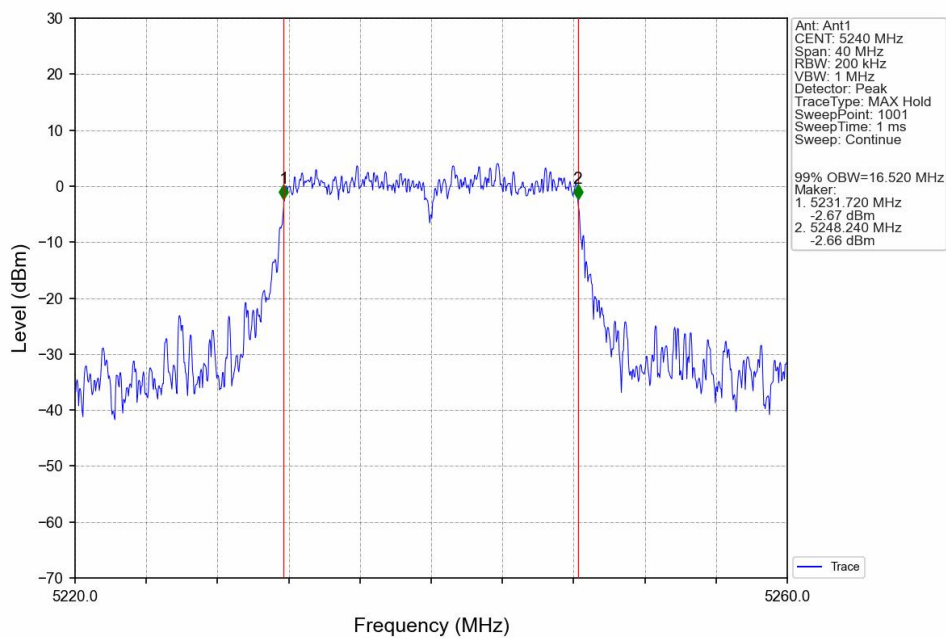
| Mode                | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|---------------------|---------|-----------------|-----|---------------------|------------|---------|
|                     |         |                 |     | Result              | Limit      |         |
| 802.11a             | SISO    | 5745            | 1   | 16.454              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 16.437              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 16.387              | $\geq 0.5$ | Pass    |
| 802.11n<br>(HT20)   | SISO    | 5745            | 1   | 17.165              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 17.586              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 17.641              | $\geq 0.5$ | Pass    |
| 802.11n<br>(HT40)   | SISO    | 5755            | 1   | 35.936              | $\geq 0.5$ | Pass    |
|                     |         | 5795            | 1   | 36.059              | $\geq 0.5$ | Pass    |
| 802.11ac<br>(VHT20) | SISO    | 5745            | 1   | 17.623              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 17.258              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 17.298              | $\geq 0.5$ | Pass    |
| 802.11ac<br>(VHT40) | SISO    | 5755            | 1   | 36.324              | $\geq 0.5$ | Pass    |
|                     |         | 5795            | 1   | 35.743              | $\geq 0.5$ | Pass    |
| 802.11ac<br>(VHT80) | SISO    | 5775            | 1   | 75.246              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

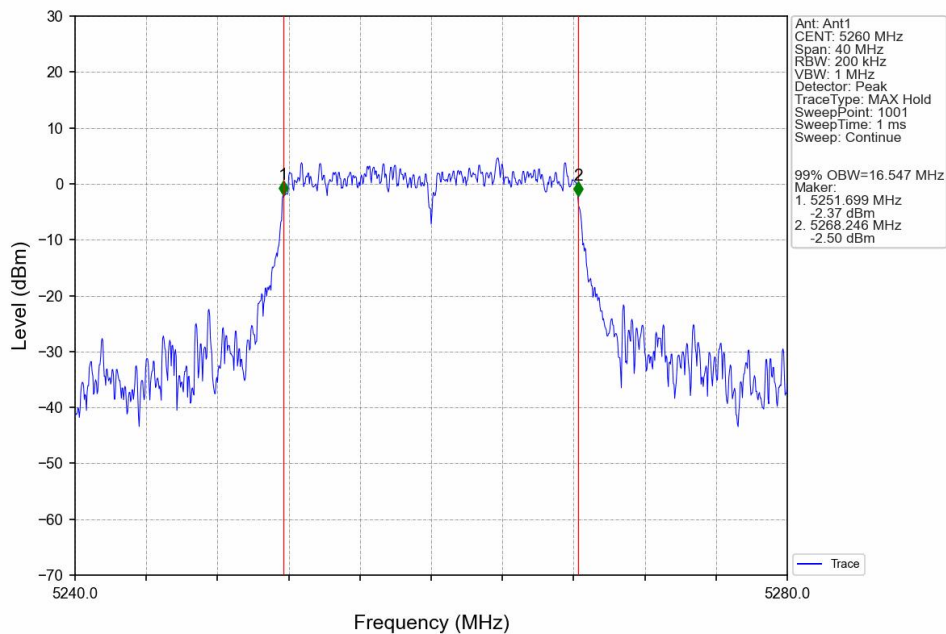
### 2.2.1 OBW



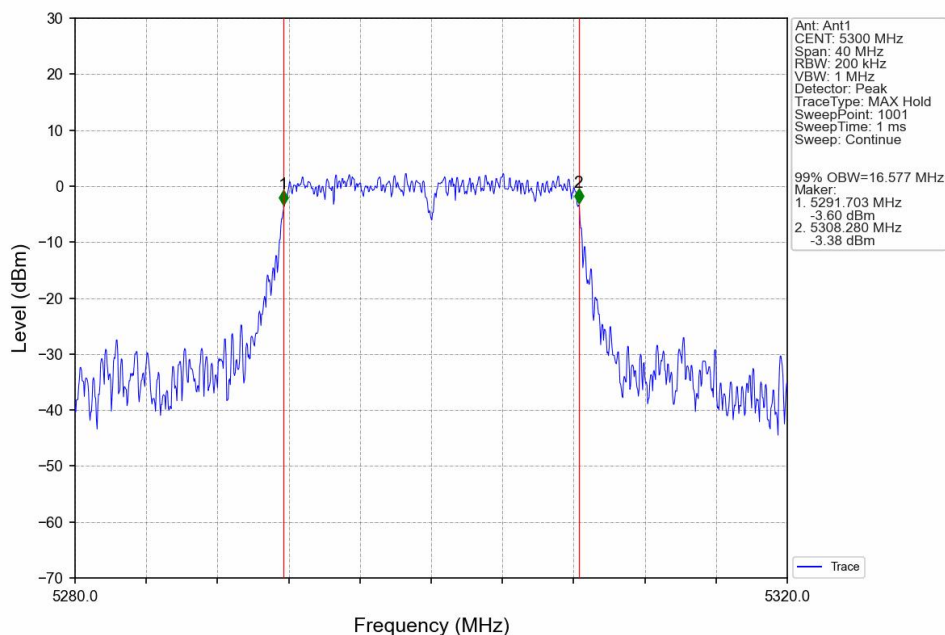
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



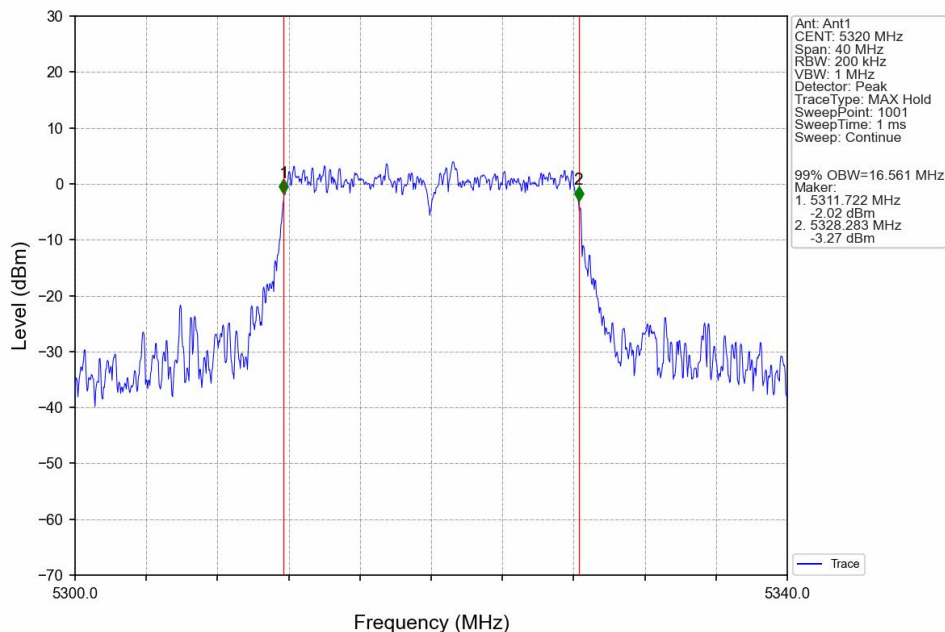
802.11a\_LCH\_5260MHz\_Ant1\_NTNV



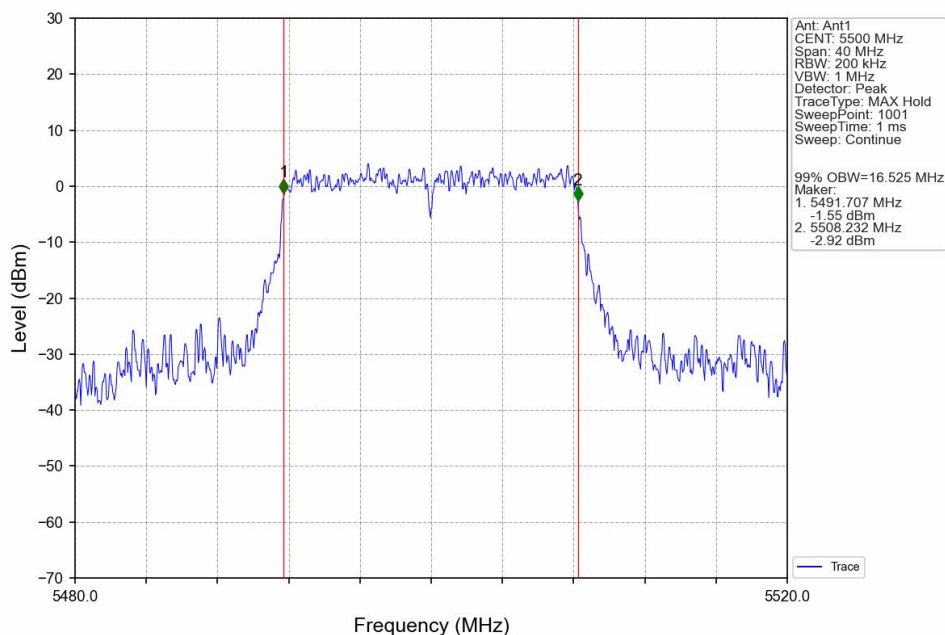
802.11a\_MCH\_5300MHz\_Ant1\_NTNV



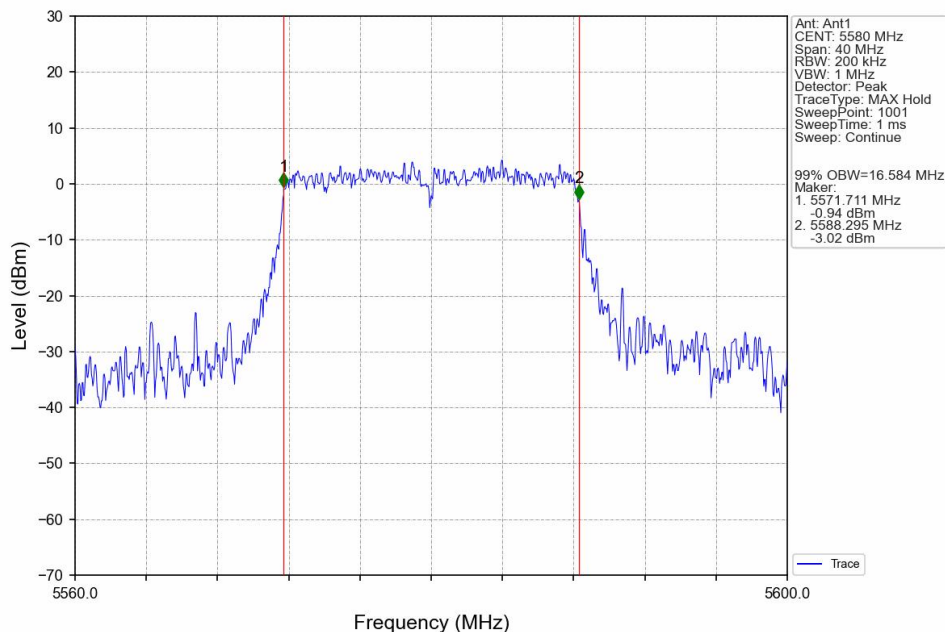
802.11a\_HCH\_5320MHz\_Ant1\_NTNV



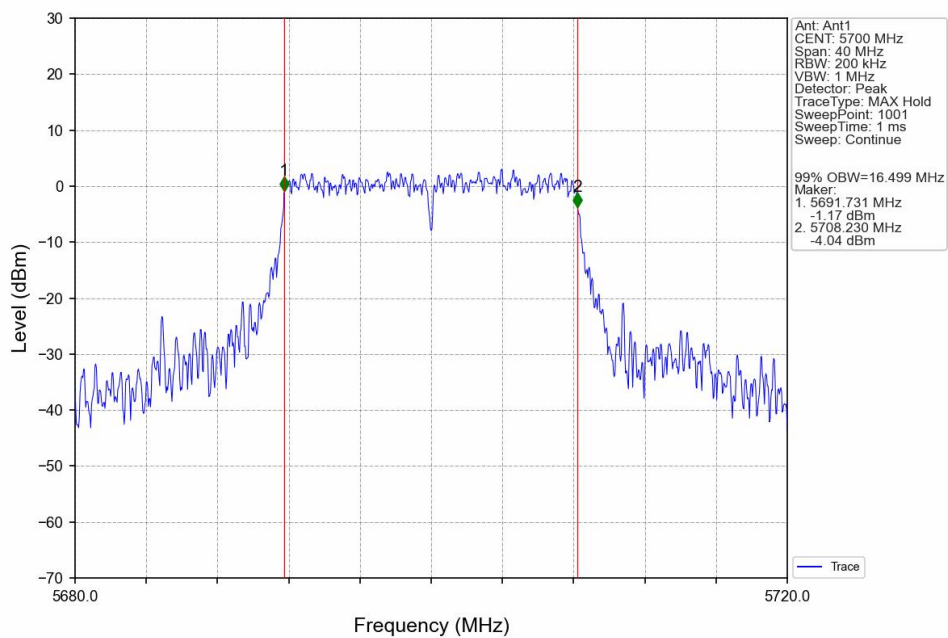
802.11a\_LCH\_5500MHz\_Ant1\_NTNV



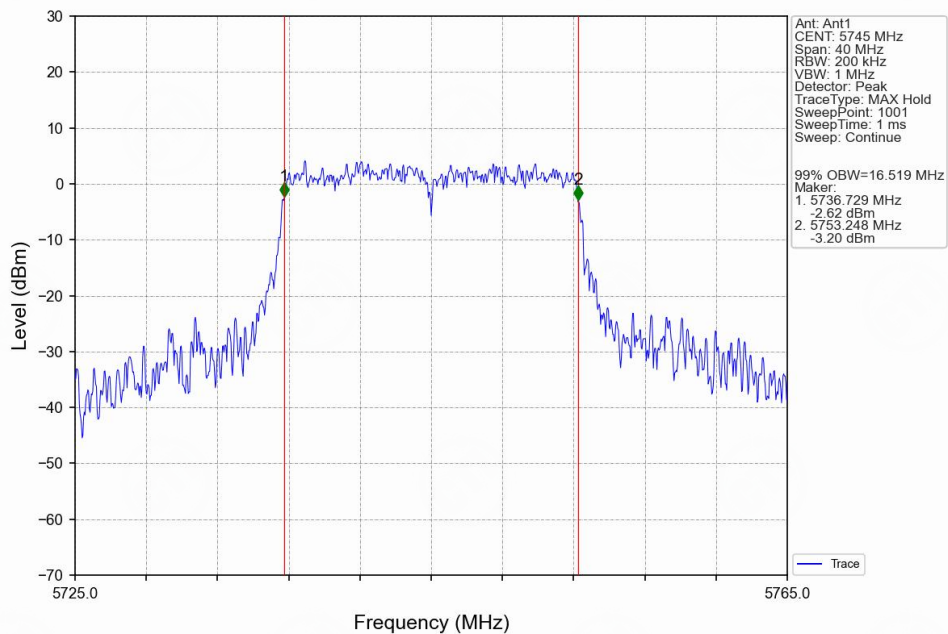
802.11a\_MCH\_5580MHz\_Ant1\_NTNV



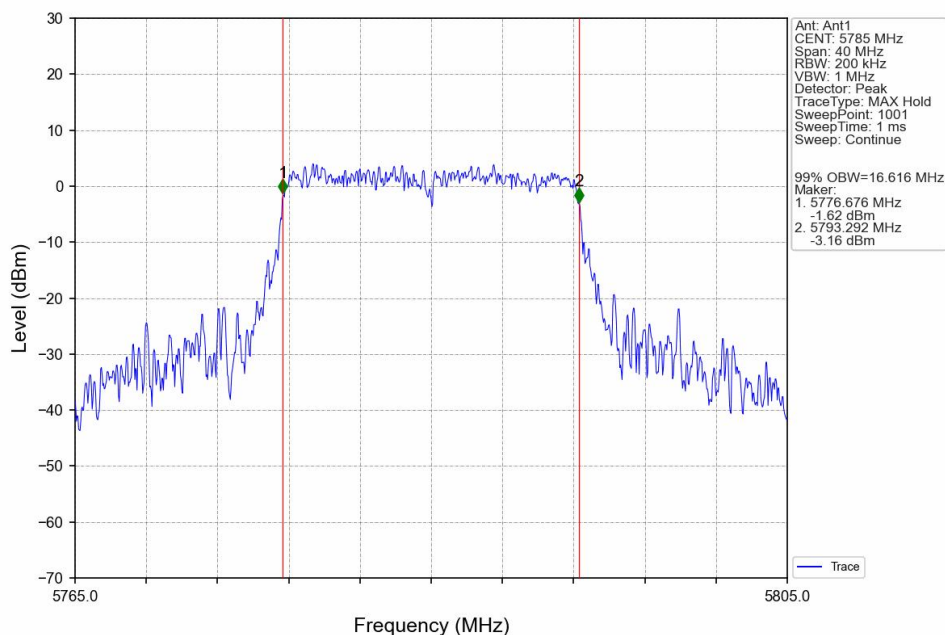
802.11a\_HCH\_5700MHz\_Ant1\_NTNV



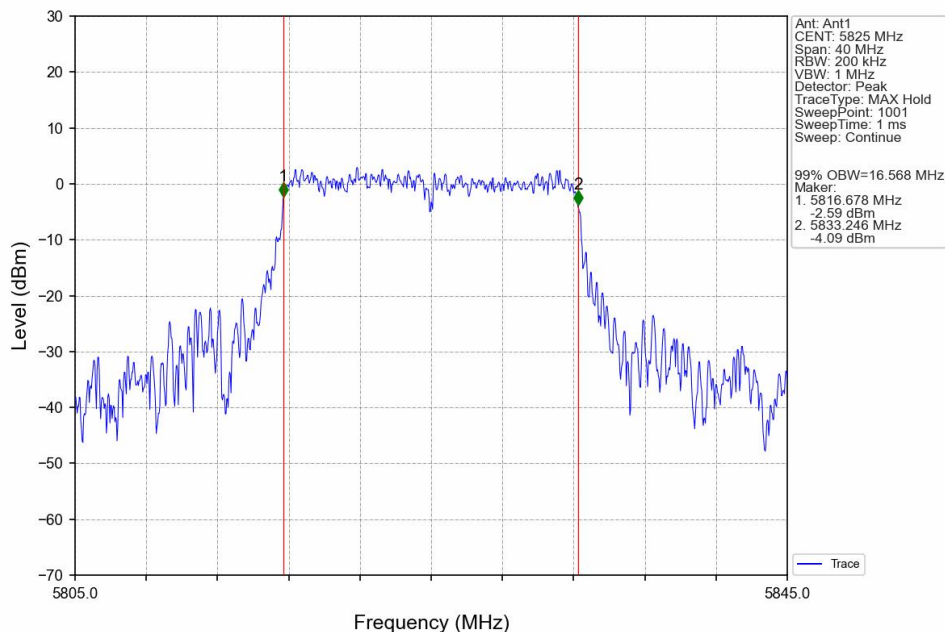
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



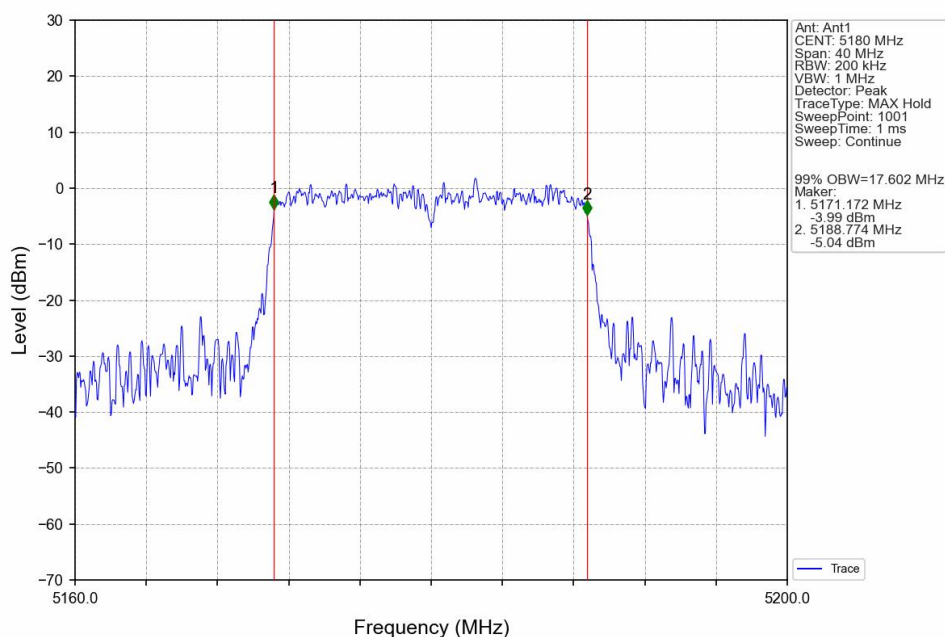
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



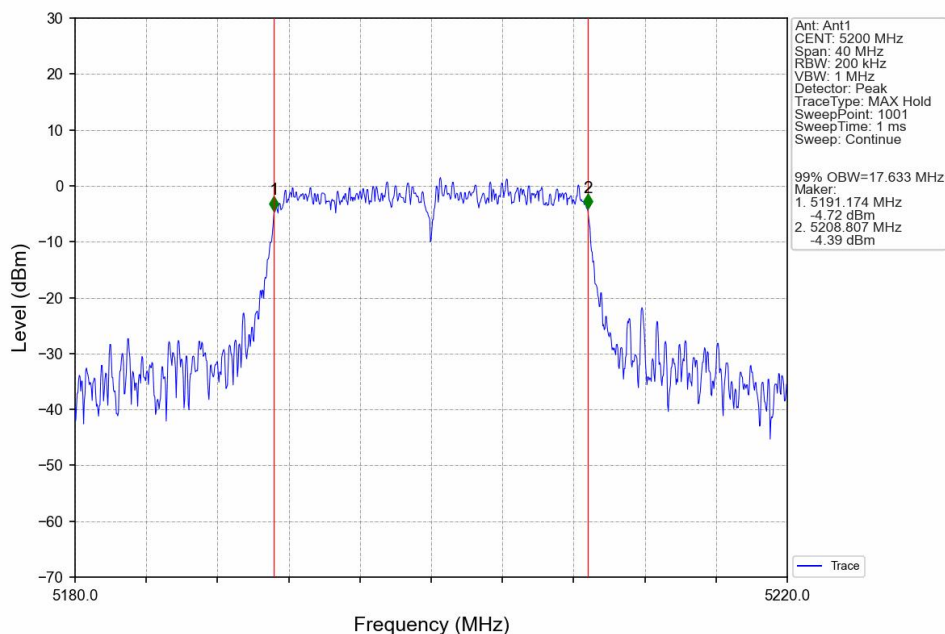
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



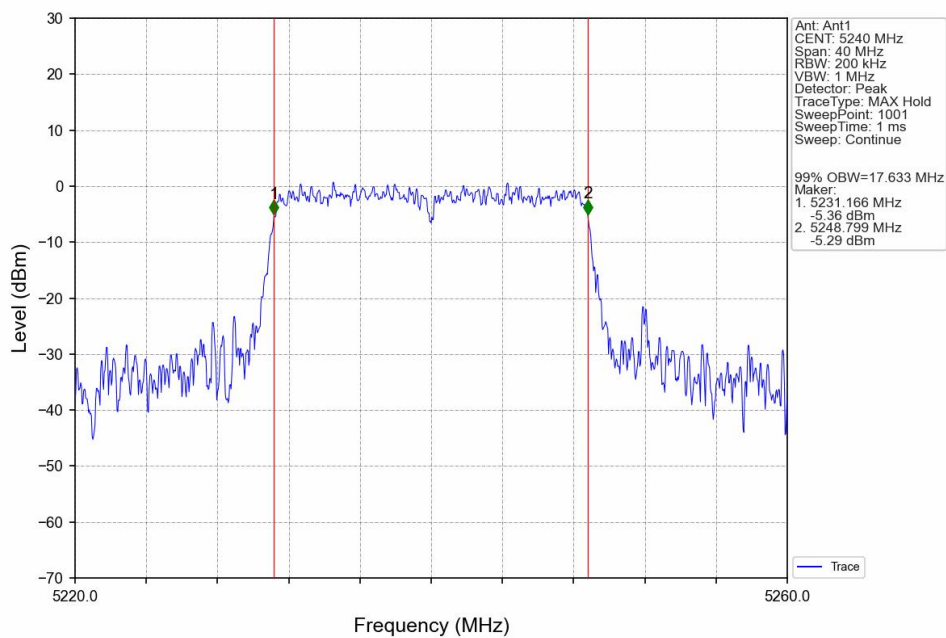
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



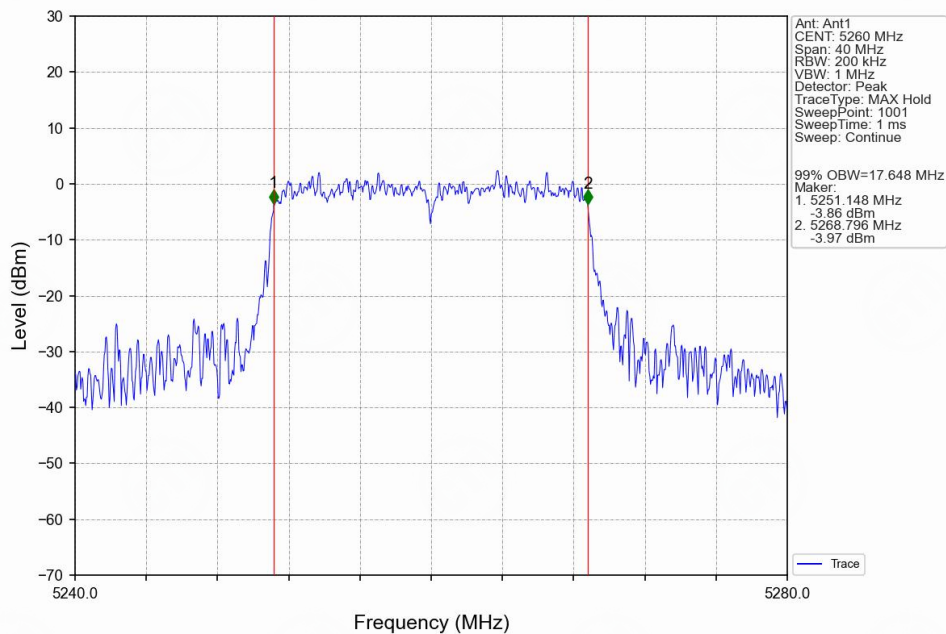
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



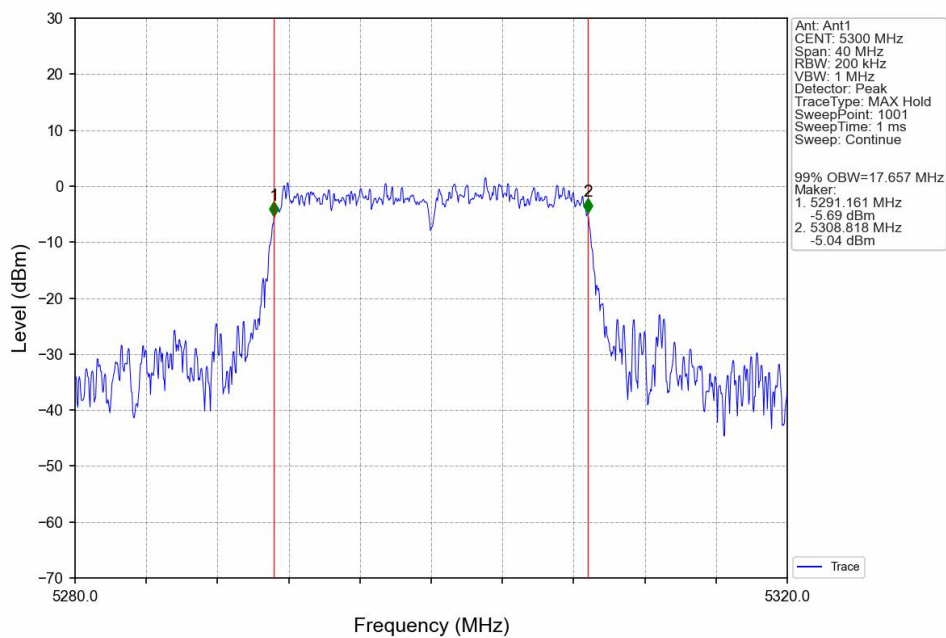
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



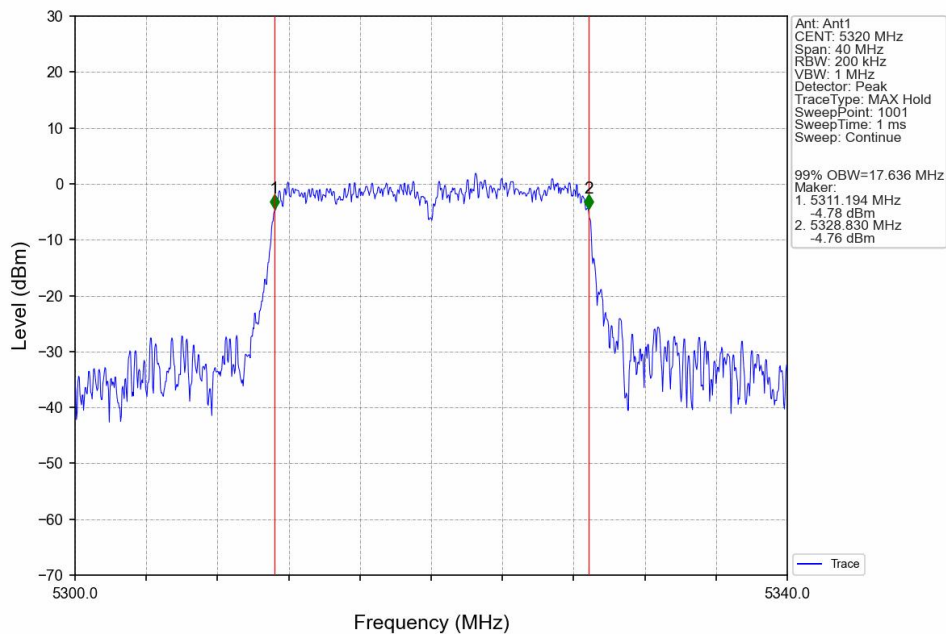
802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



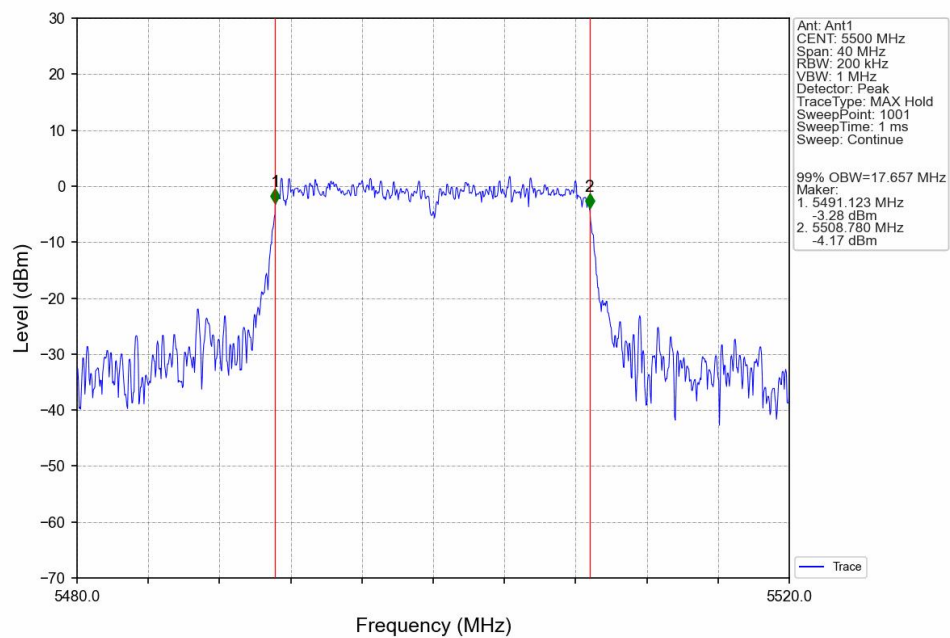
802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



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



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



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

