

## 1. Duty Cycle

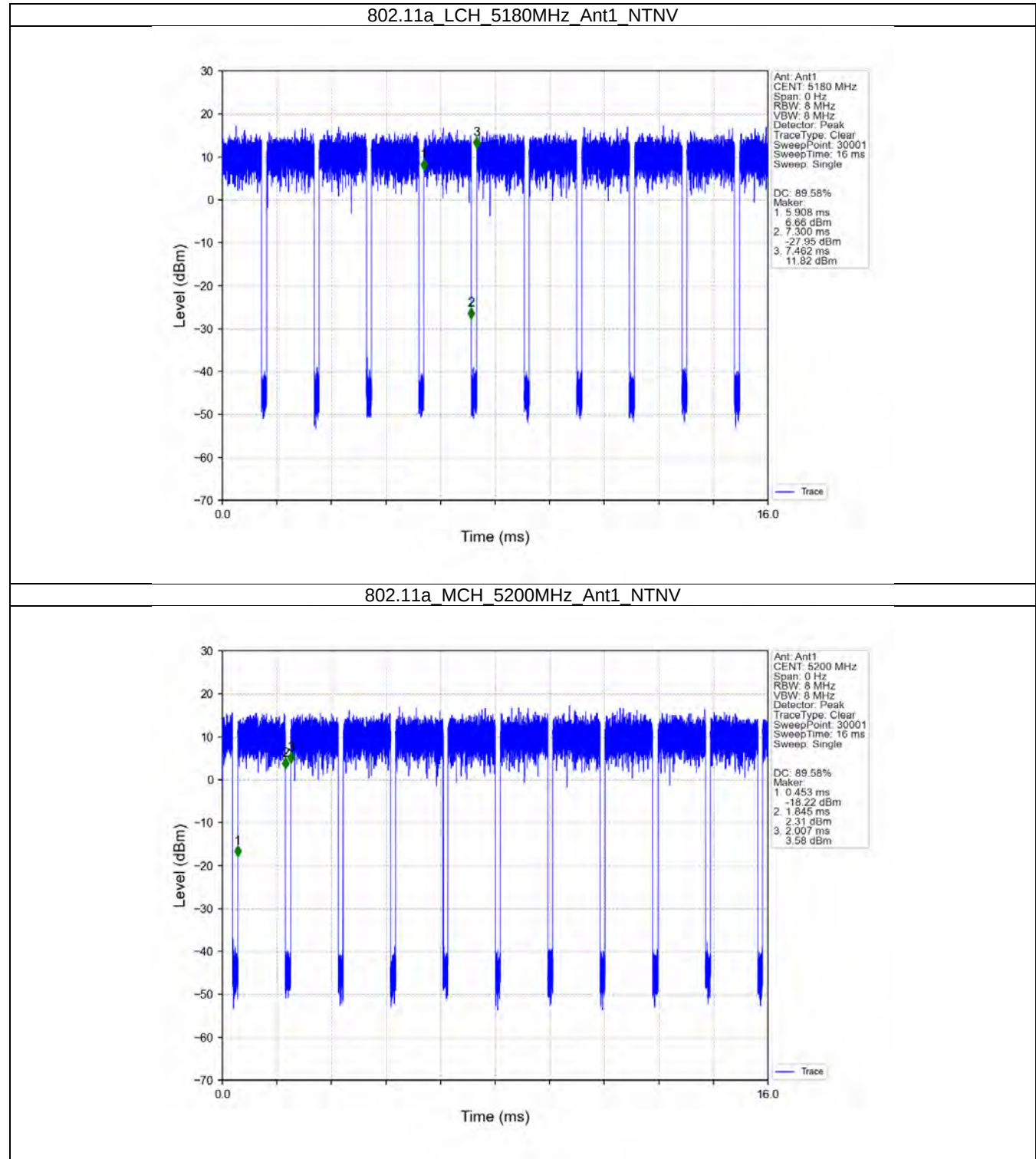
### 1.1 Test Result

#### 1.1.1 Ant1

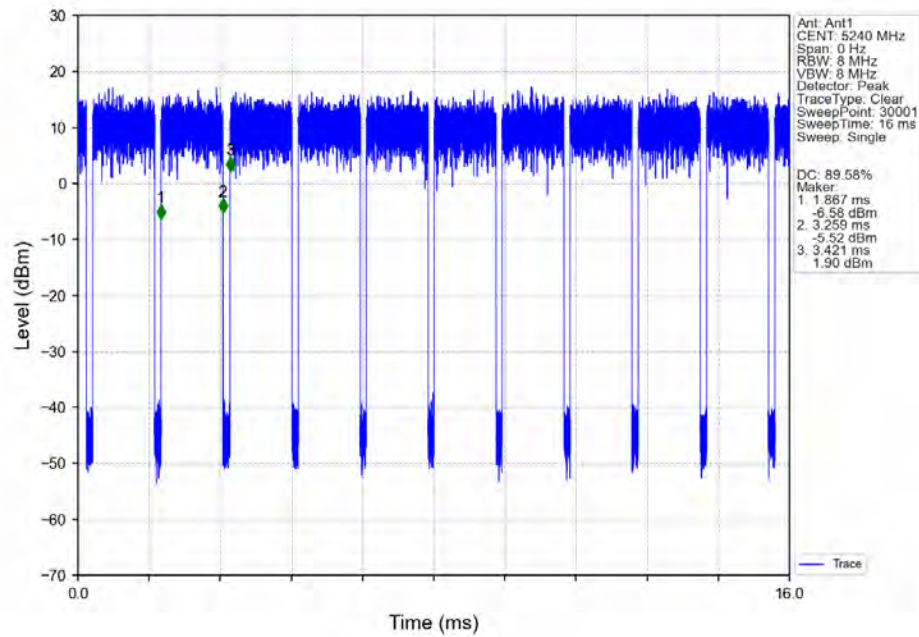
| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | 1.392     | 1.554       | 89.58          | 0.48                              | 1.09                  |
|                  |         | 5200            | 1.392     | 1.554       | 89.58          | 0.48                              | 1.60                  |
|                  |         | 5240            | 1.392     | 1.554       | 89.58          | 0.48                              | 1.63                  |
|                  |         | 5745            | 1.393     | 1.554       | 89.64          | 0.47                              | 1.02                  |
|                  |         | 5785            | 1.392     | 1.545       | 90.10          | 0.45                              | 0.57                  |
|                  |         | 5825            | 1.392     | 1.545       | 90.10          | 0.45                              | 1.07                  |
| 802.11n (HT20)   | SISO    | 5180            | 1.175     | 1.336       | 87.95          | 0.56                              | 1.18                  |
|                  |         | 5200            | 1.174     | 1.336       | 87.87          | 0.56                              | 1.22                  |
|                  |         | 5240            | 1.175     | 1.336       | 87.95          | 0.56                              | 1.19                  |
|                  |         | 5745            | 1.175     | 1.336       | 87.95          | 0.56                              | 1.21                  |
|                  |         | 5785            | 1.174     | 1.337       | 87.81          | 0.56                              | 1.86                  |
|                  |         | 5825            | 1.174     | 1.327       | 88.47          | 0.53                              | 1.20                  |
| 802.11n (HT40)   | SISO    | 5190            | 0.588     | 0.731       | 80.44          | 0.95                              | 1.02                  |
|                  |         | 5230            | 0.587     | 0.748       | 78.48          | 1.05                              | 1.96                  |
|                  |         | 5755            | 0.588     | 0.748       | 78.61          | 1.05                              | 0.98                  |
|                  |         | 5795            | 0.587     | 0.748       | 78.48          | 1.05                              | 1.96                  |
| 802.11ac (VHT20) | SISO    | 5180            | 1.185     | 1.337       | 88.63          | 0.52                              | 0.62                  |
|                  |         | 5200            | 1.185     | 1.347       | 87.97          | 0.56                              | 1.21                  |
|                  |         | 5240            | 1.186     | 1.348       | 87.98          | 0.56                              | 1.21                  |
|                  |         | 5745            | 1.186     | 1.365       | 86.89          | 0.61                              | 2.98                  |
|                  |         | 5785            | 1.185     | 1.347       | 87.97          | 0.56                              | 1.21                  |
|                  |         | 5825            | 1.185     | 1.347       | 87.97          | 0.56                              | 1.17                  |
| 802.11ac (VHT40) | SISO    | 5190            | 0.592     | 0.752       | 78.72          | 1.04                              | 0.96                  |
|                  |         | 5230            | 0.592     | 0.743       | 79.68          | 0.99                              | 0.99                  |
|                  |         | 5755            | 0.591     | 0.752       | 78.59          | 1.05                              | 1.95                  |
|                  |         | 5795            | 0.591     | 0.743       | 79.54          | 0.99                              | 1.01                  |
| 802.11ac (VHT80) | SISO    | 5210            | 0.297     | 0.457       | 64.99          | 1.87                              | 2.64                  |
|                  |         | 5775            | 0.296     | 0.448       | 66.07          | 1.80                              | 1.38                  |

## 1.2 Test Graph

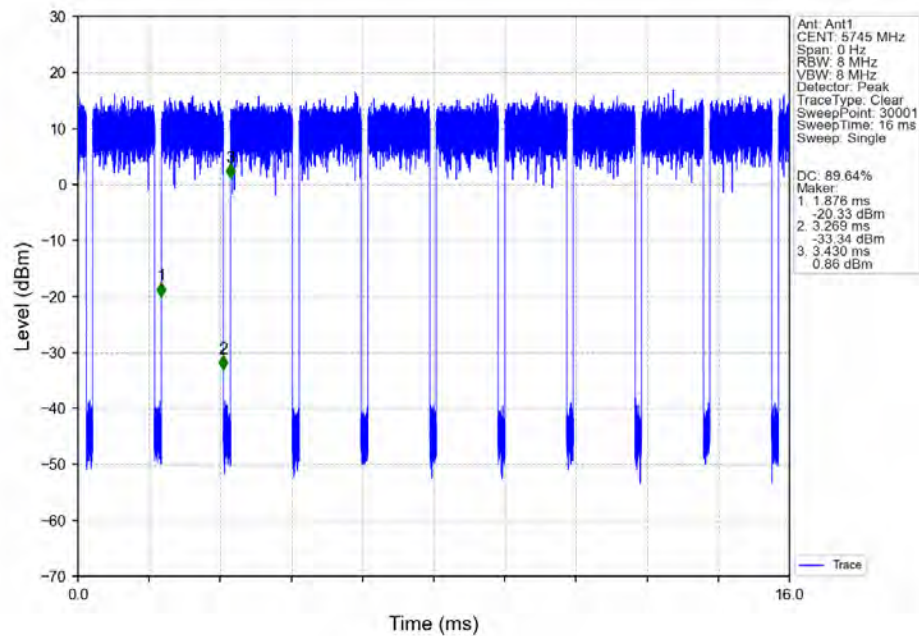
### 1.2.1 Ant1



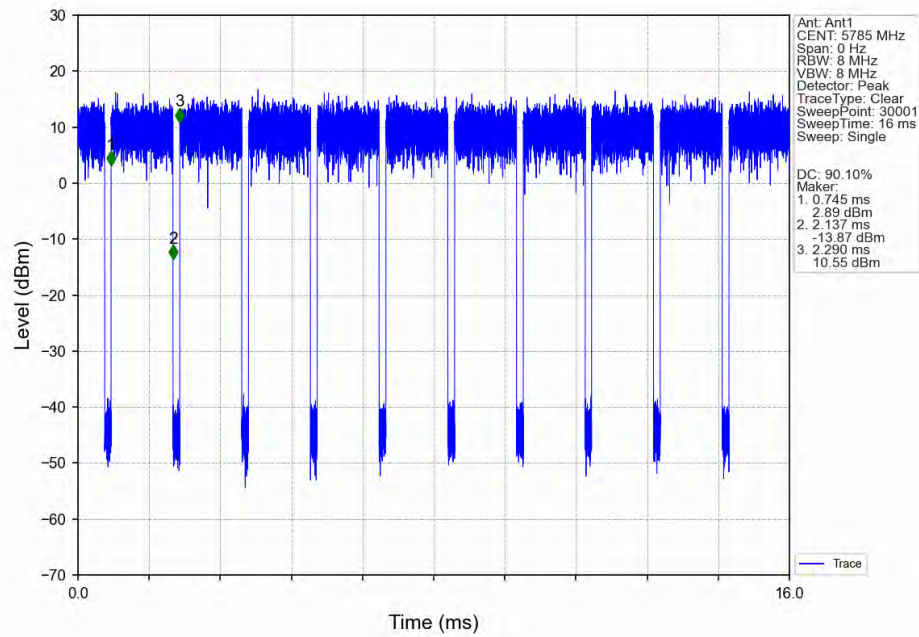
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



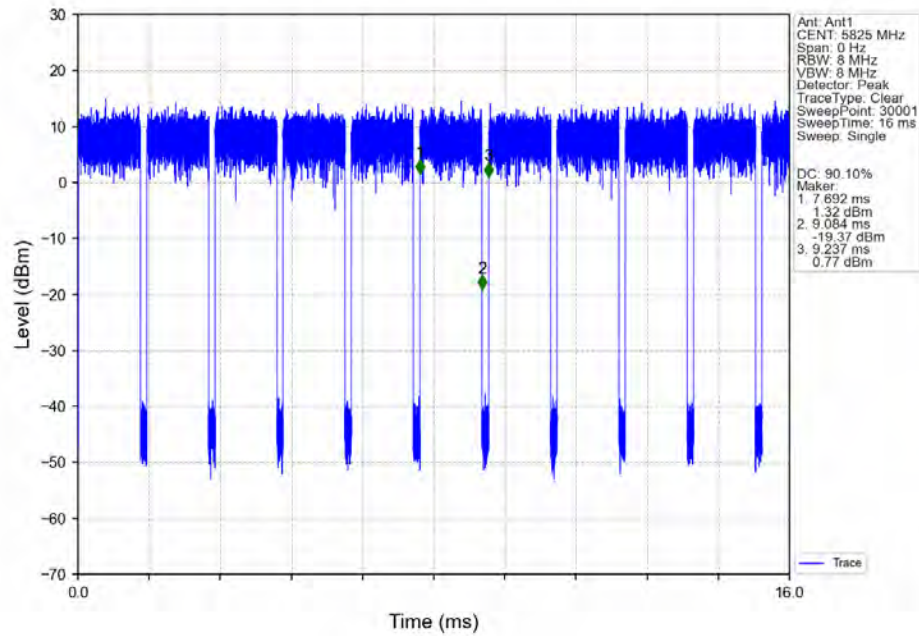
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



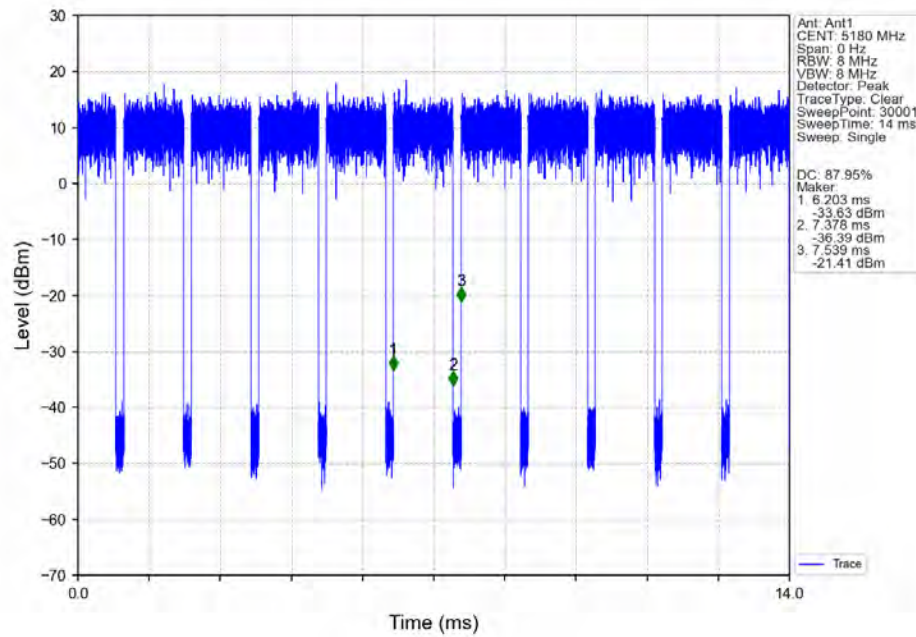
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



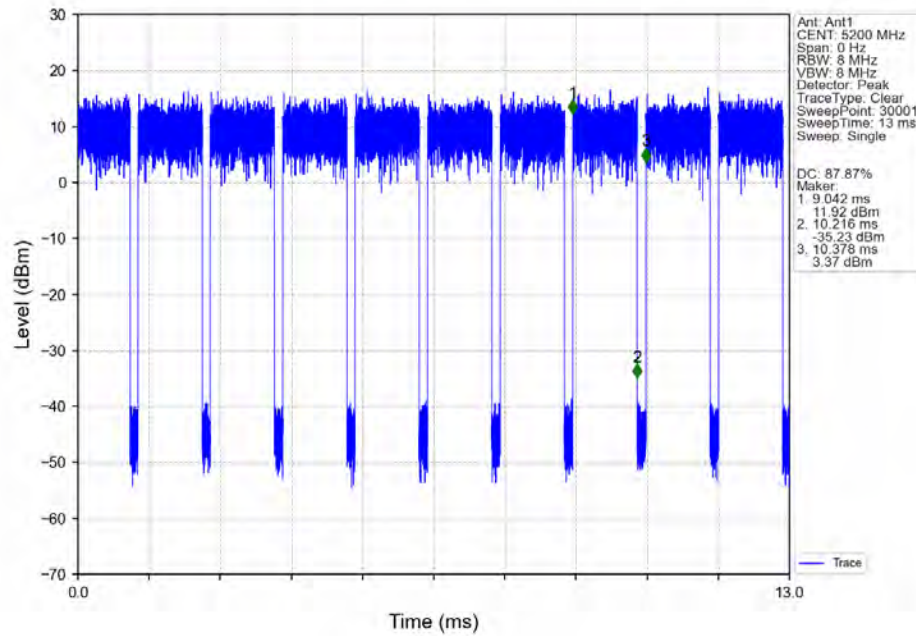
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



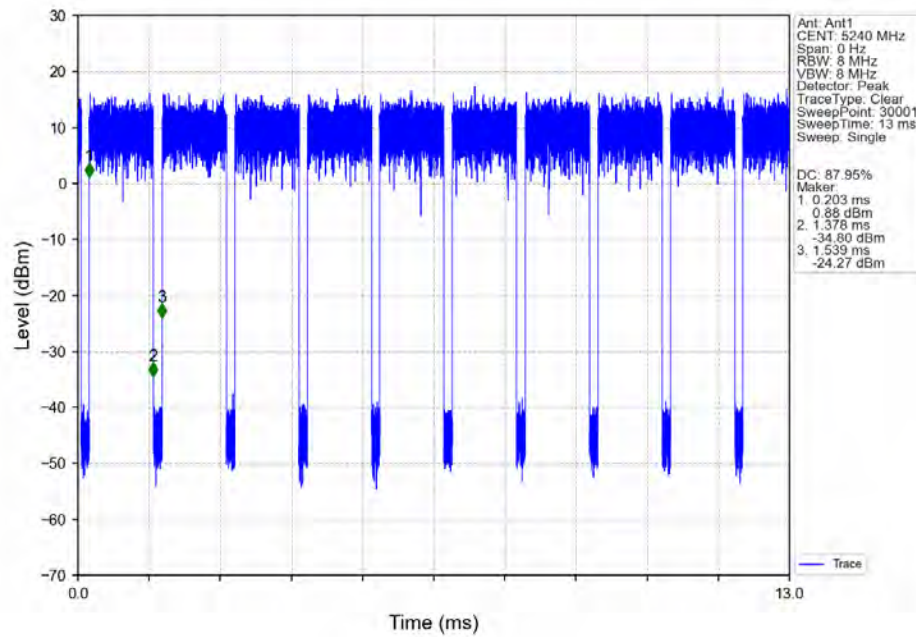
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



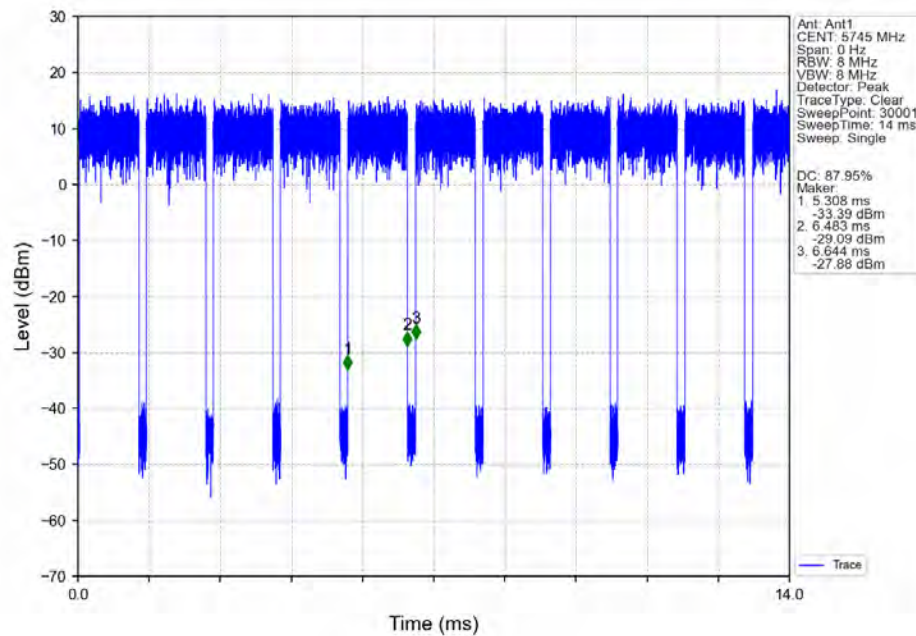
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



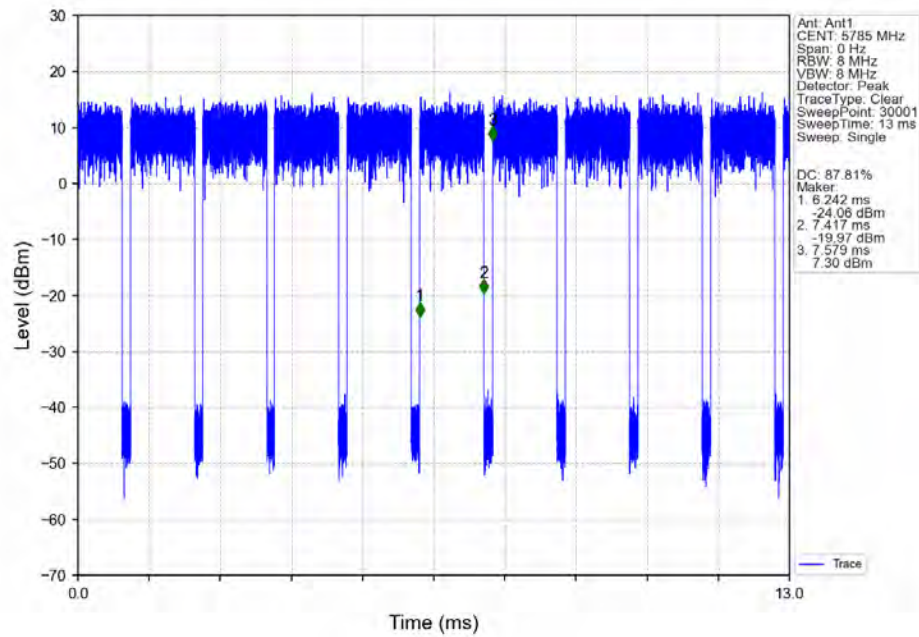
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



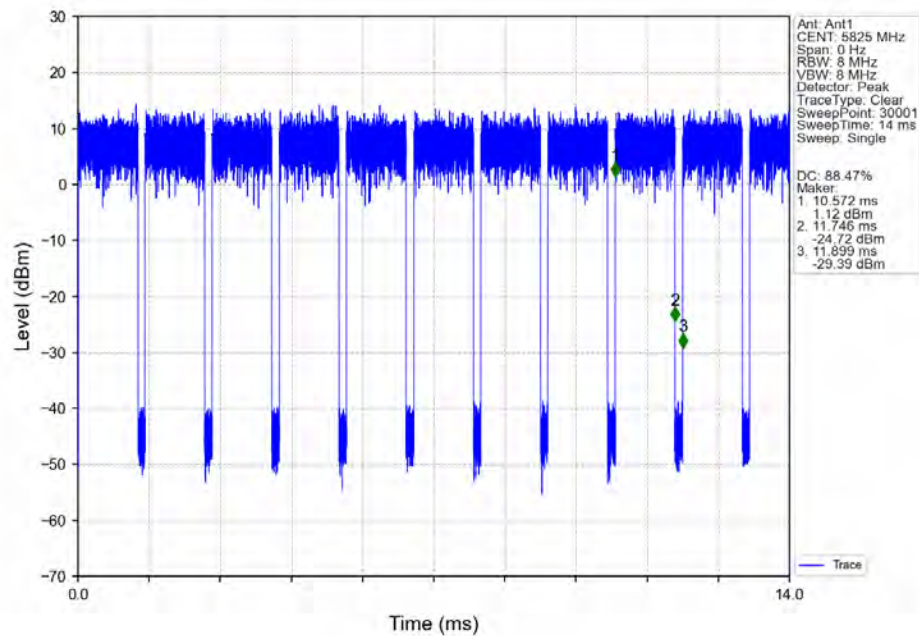
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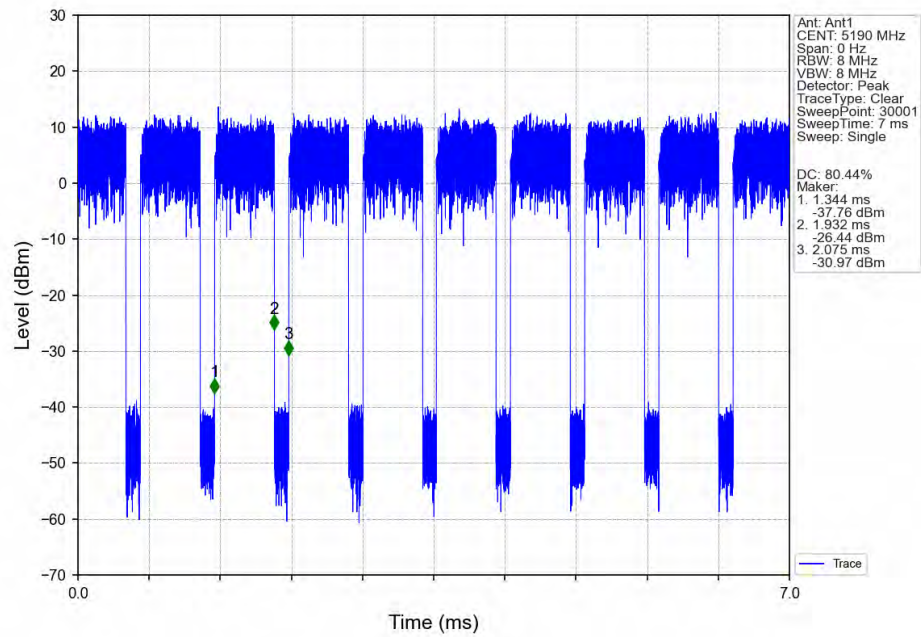
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



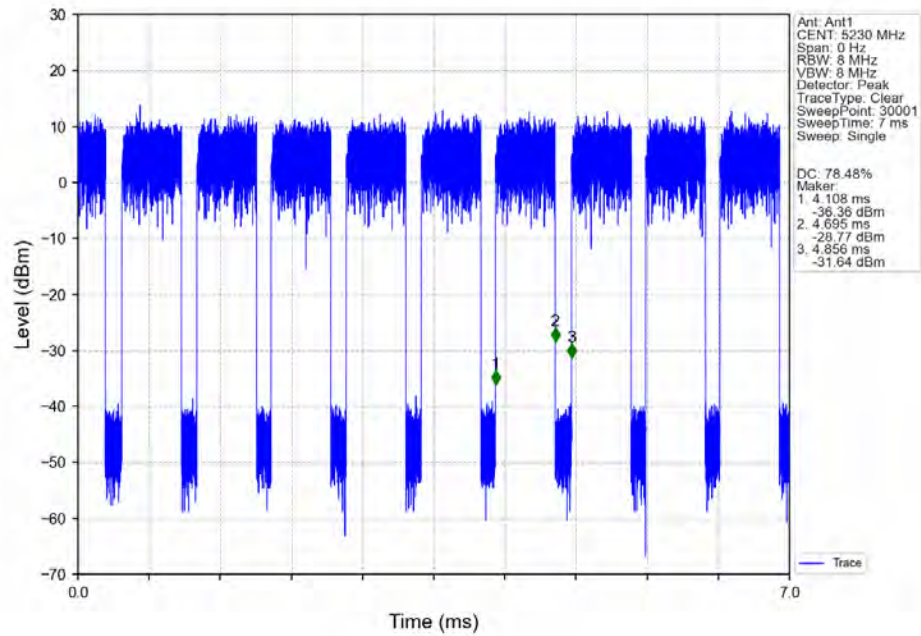
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



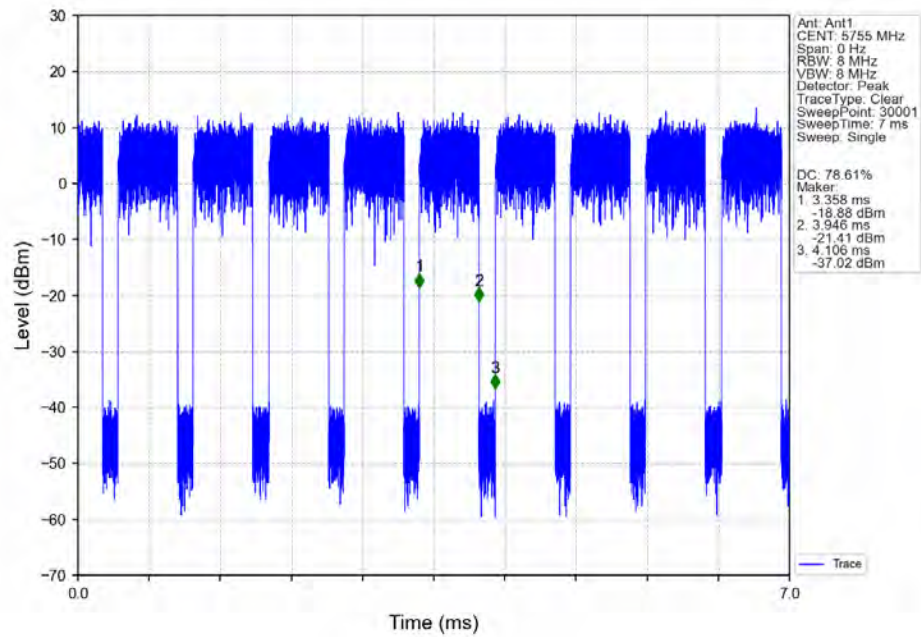
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



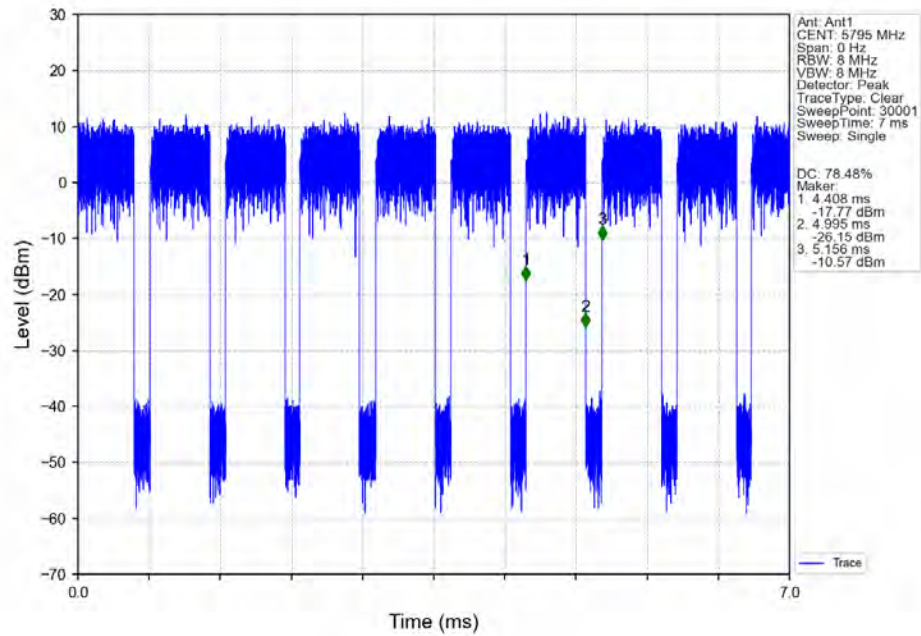
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



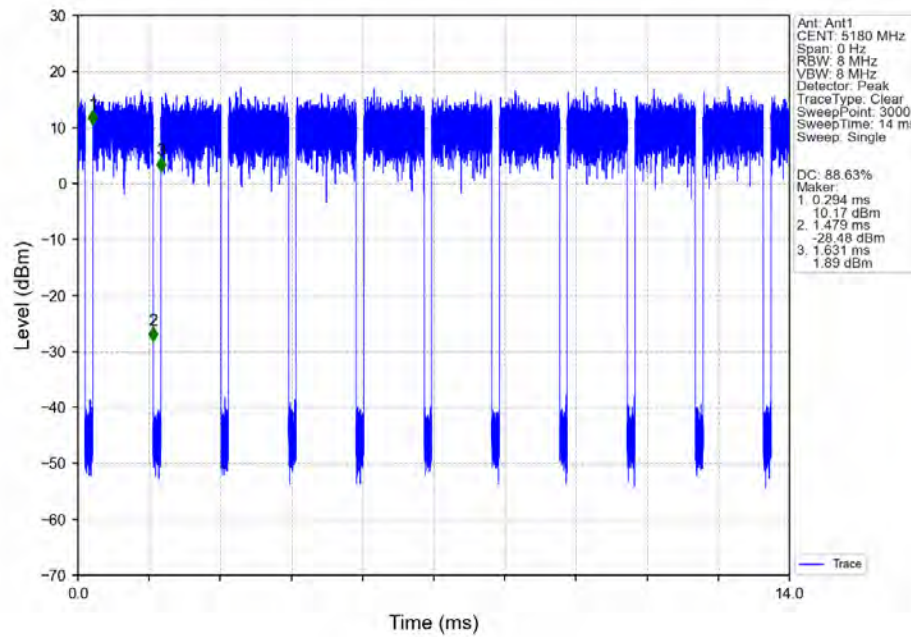
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



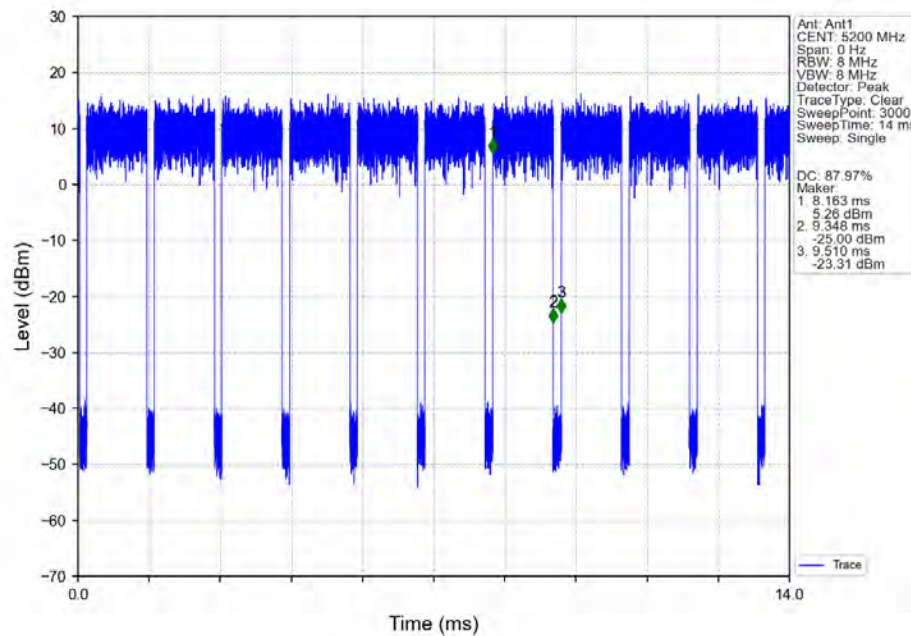
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



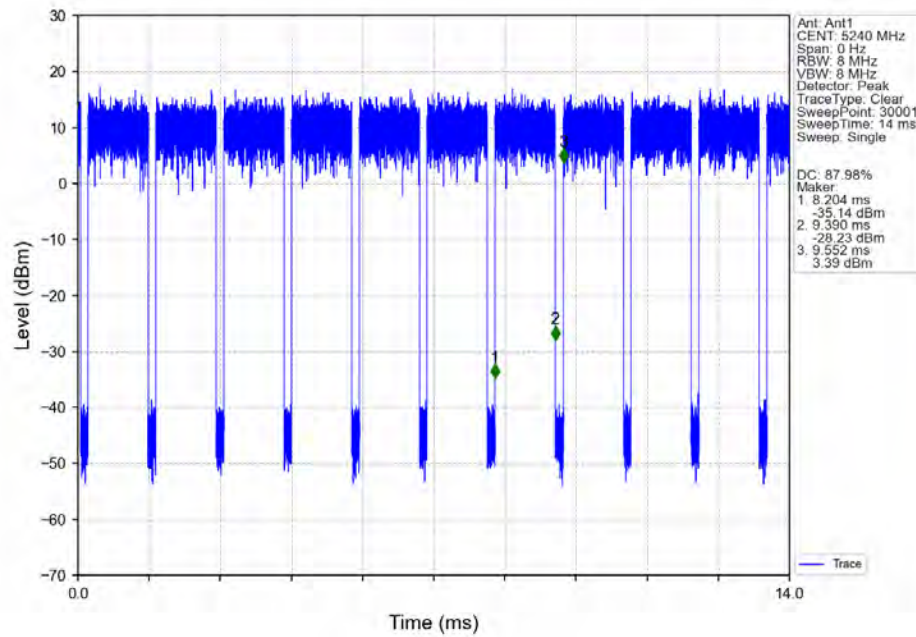
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



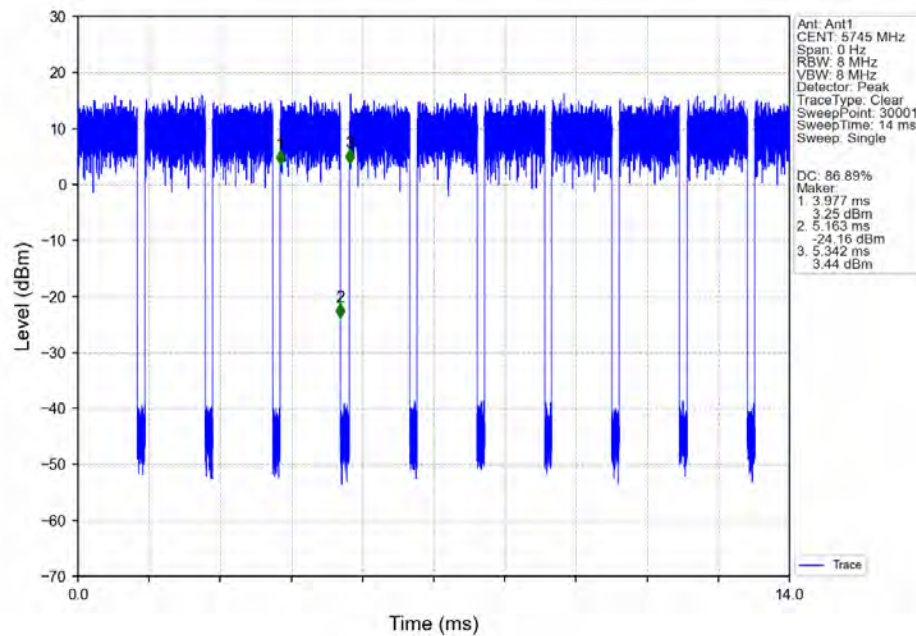
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



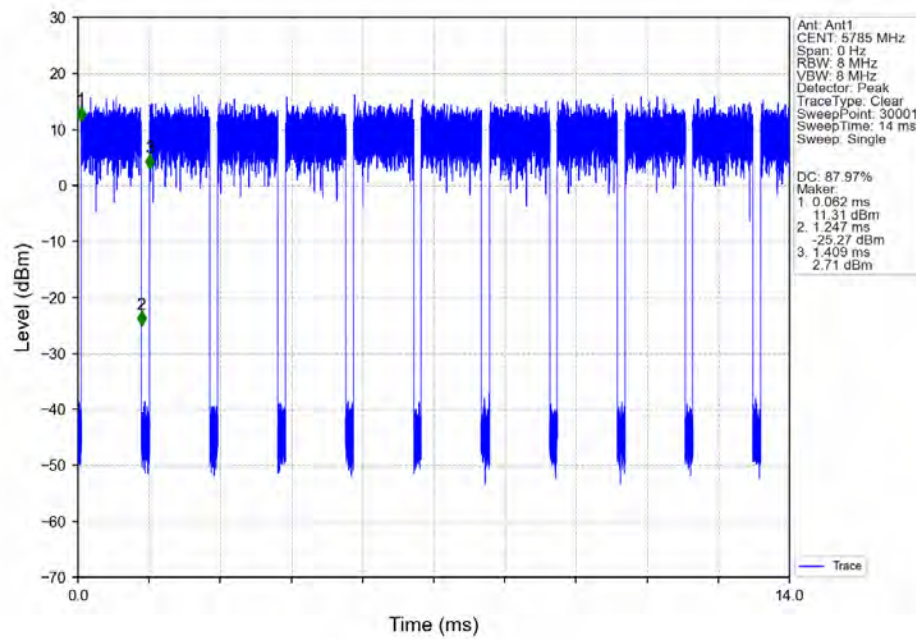
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



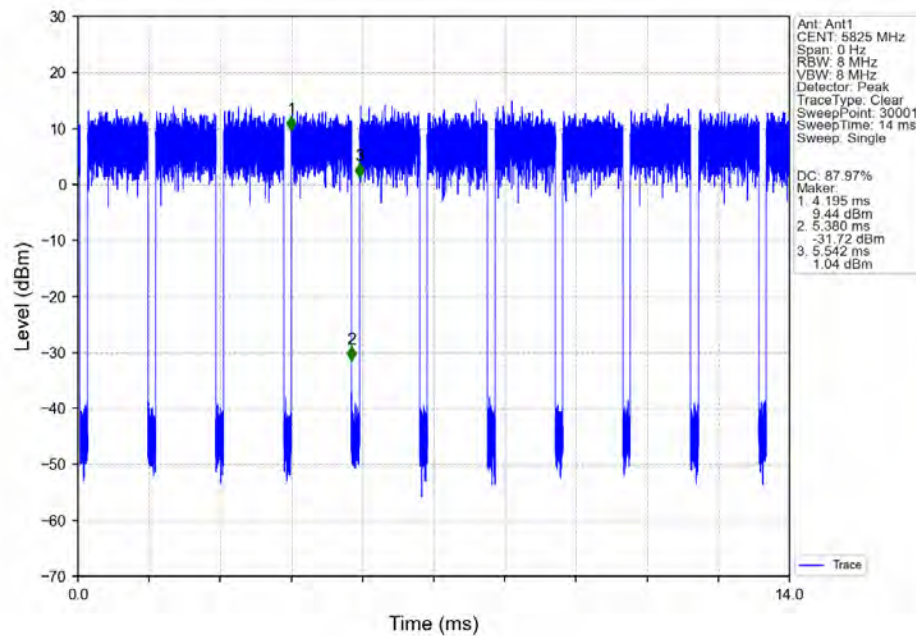
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



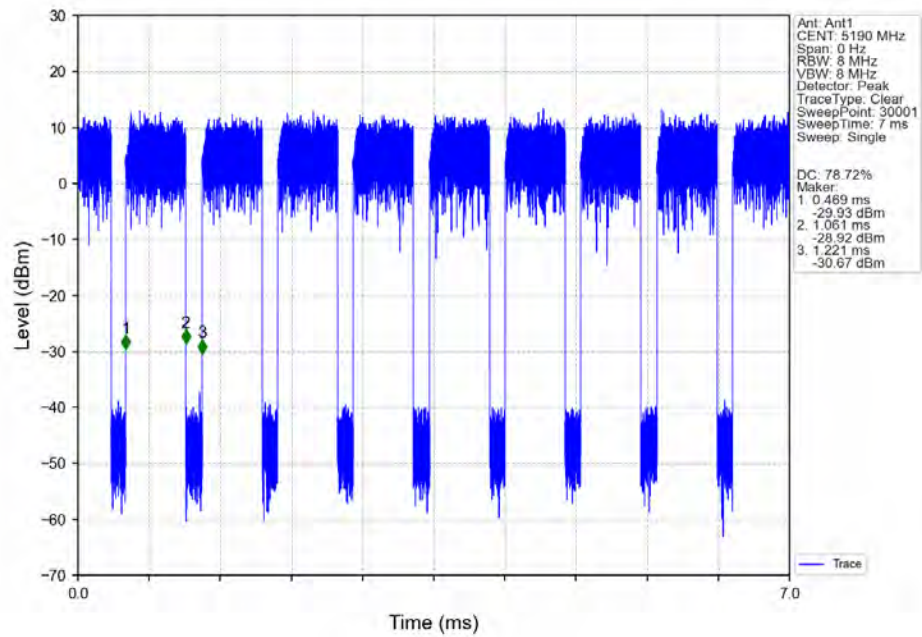
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



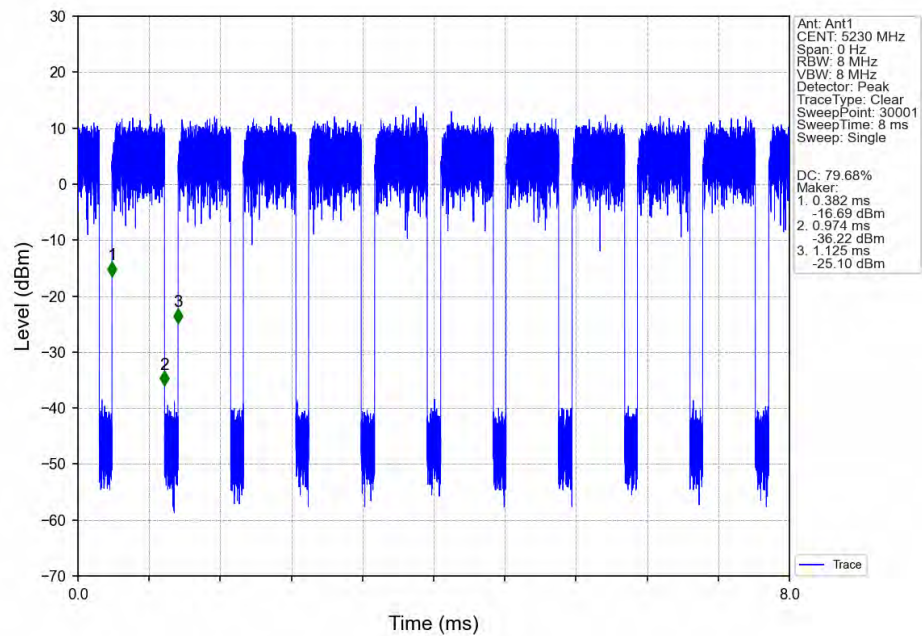
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



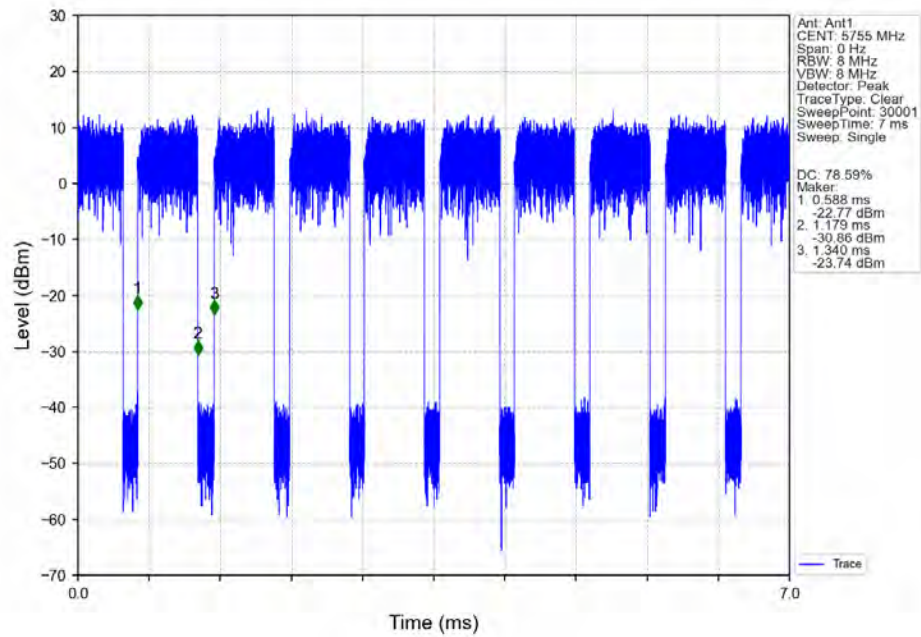
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



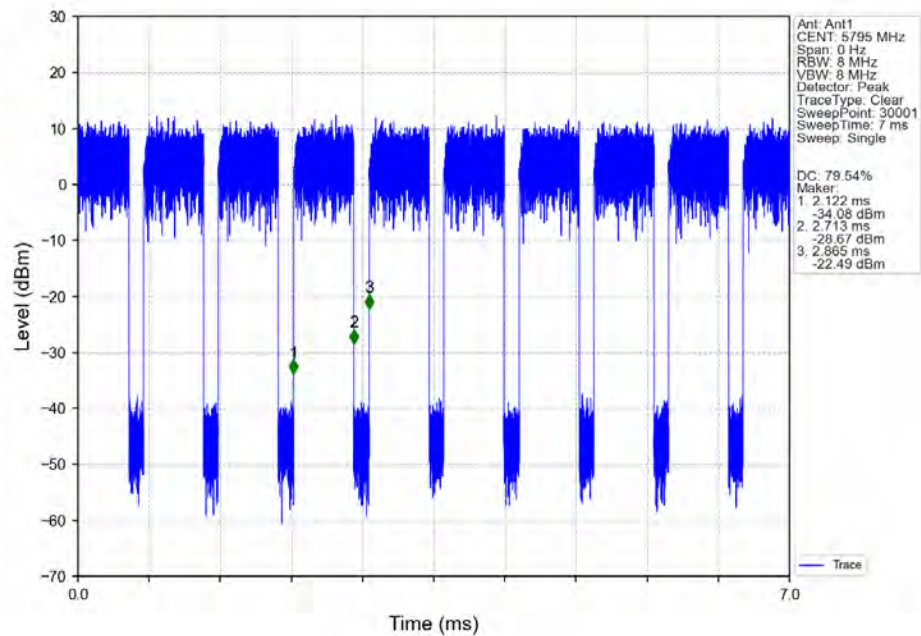
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



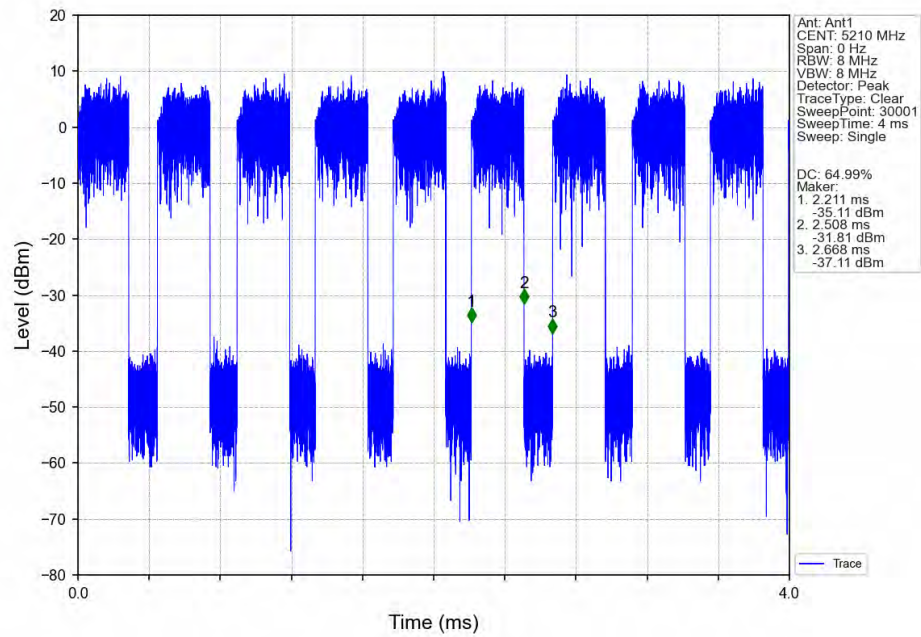
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



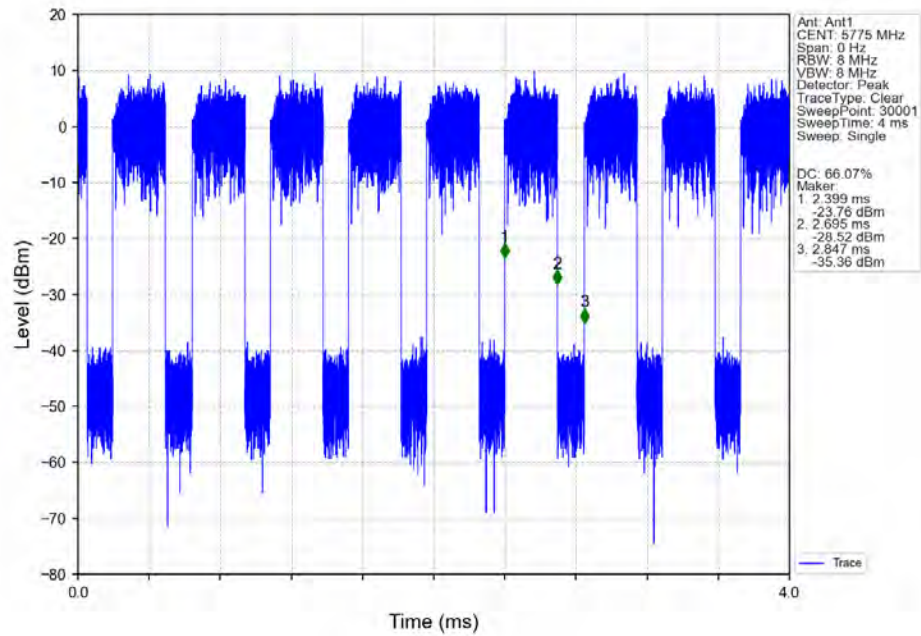
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



802.11ac(VHT80)\_MCH\_5775MHz\_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   | 17.892                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.025                       | /     | Pass    |
|                  |         | 5240            | 1   | 17.850                       | /     | Pass    |
|                  |         | 5745            | 1   | 17.992                       | /     | Pass    |
|                  |         | 5785            | 1   | 17.916                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.812                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 19.475                       | /     | Pass    |
|                  |         | 5200            | 1   | 19.856                       | /     | Pass    |
|                  |         | 5240            | 1   | 19.534                       | /     | Pass    |
|                  |         | 5745            | 1   | 19.187                       | /     | Pass    |
|                  |         | 5785            | 1   | 19.325                       | /     | Pass    |
|                  |         | 5825            | 1   | 19.671                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 37.904                       | /     | Pass    |
|                  |         | 5230            | 1   | 38.250                       | /     | Pass    |
|                  |         | 5755            | 1   | 37.697                       | /     | Pass    |
|                  |         | 5795            | 1   | 37.951                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 18.352                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.365                       | /     | Pass    |
|                  |         | 5240            | 1   | 18.419                       | /     | Pass    |
|                  |         | 5745            | 1   | 18.396                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.343                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.411                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 37.535                       | /     | Pass    |
|                  |         | 5230            | 1   | 37.936                       | /     | Pass    |
|                  |         | 5755            | 1   | 37.530                       | /     | Pass    |
|                  |         | 5795            | 1   | 37.728                       | /     | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 76.250                       | /     | Pass    |
|                  |         | 5775            | 1   | 76.019                       | /     | Pass    |

#### 2.1.2 6dB BW

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|---------------------|-------|---------|
|                  |         |                 |     | Result              | Limit |         |
| 802.11a          | SISO    | 5745            | 1   | 16.412              | >=0.5 | Pass    |
|                  |         | 5785            | 1   | 16.467              | >=0.5 | Pass    |
|                  |         | 5825            | 1   | 16.395              | >=0.5 | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 17.569              | >=0.5 | Pass    |
|                  |         | 5785            | 1   | 17.434              | >=0.5 | Pass    |
|                  |         | 5825            | 1   | 17.427              | >=0.5 | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 36.286              | >=0.5 | Pass    |
|                  |         | 5795            | 1   | 36.224              | >=0.5 | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 17.445              | >=0.5 | Pass    |
|                  |         | 5785            | 1   | 17.285              | >=0.5 | Pass    |
|                  |         | 5825            | 1   | 17.428              | >=0.5 | Pass    |
| 802.11ac         | SISO    | 5755            | 1   | 36.167              | >=0.5 | Pass    |

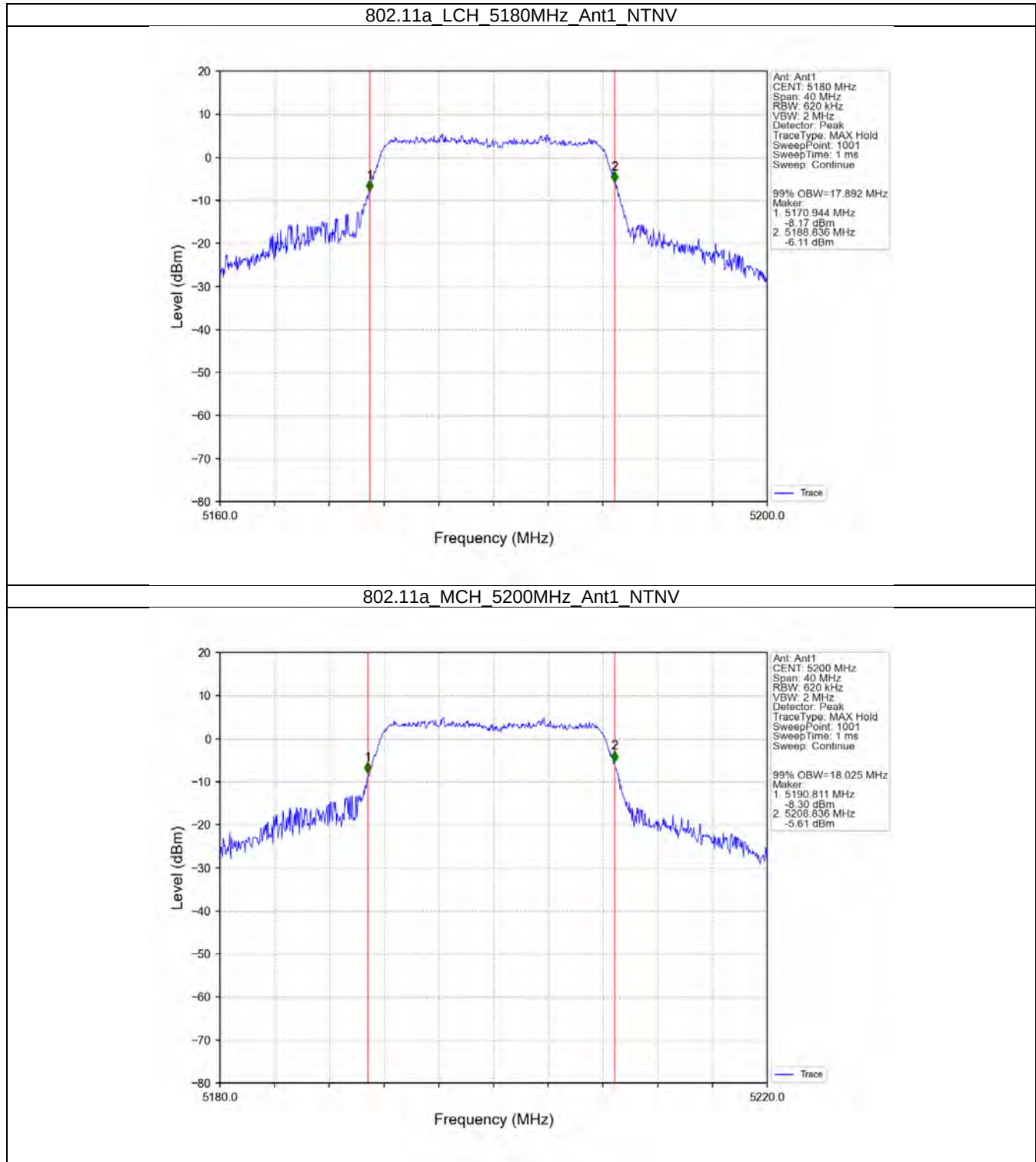
|                     |      |      |   |        |            |      |
|---------------------|------|------|---|--------|------------|------|
| (VHT40)             |      | 5795 | 1 | 36.189 | $\geq 0.5$ | Pass |
| 802.11ac<br>(VHT80) | SISO | 5775 | 1 | 75.324 | $\geq 0.5$ | Pass |

### 2.1.3 26dB BW

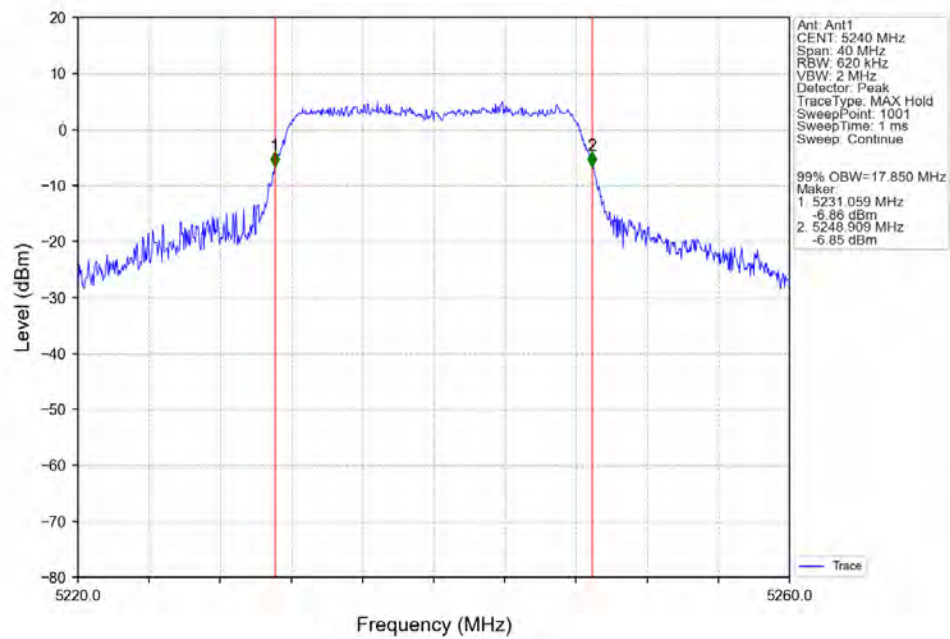
| Mode                | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|---------------------|---------|-----------------|-----|----------------------|-------|---------|
|                     |         |                 |     | Result               | Limit |         |
| 802.11a             | SISO    | 5180            | 1   | 26.711               | /     | Pass    |
|                     |         | 5200            | 1   | 26.329               | /     | Pass    |
|                     |         | 5240            | 1   | 28.244               | /     | Pass    |
| 802.11n<br>(HT20)   | SISO    | 5180            | 1   | 28.592               | /     | Pass    |
|                     |         | 5200            | 1   | 27.872               | /     | Pass    |
|                     |         | 5240            | 1   | 29.357               | /     | Pass    |
| 802.11n<br>(HT40)   | SISO    | 5190            | 1   | 58.812               | /     | Pass    |
|                     |         | 5230            | 1   | 65.364               | /     | Pass    |
| 802.11ac<br>(VHT20) | SISO    | 5180            | 1   | 25.177               | /     | Pass    |
|                     |         | 5200            | 1   | 27.859               | /     | Pass    |
|                     |         | 5240            | 1   | 27.970               | /     | Pass    |
| 802.11ac<br>(VHT40) | SISO    | 5190            | 1   | 61.895               | /     | Pass    |
|                     |         | 5230            | 1   | 62.911               | /     | Pass    |
| 802.11ac<br>(VHT80) | SISO    | 5210            | 1   | 85.395               | /     | Pass    |

## 2.2 Test Graph

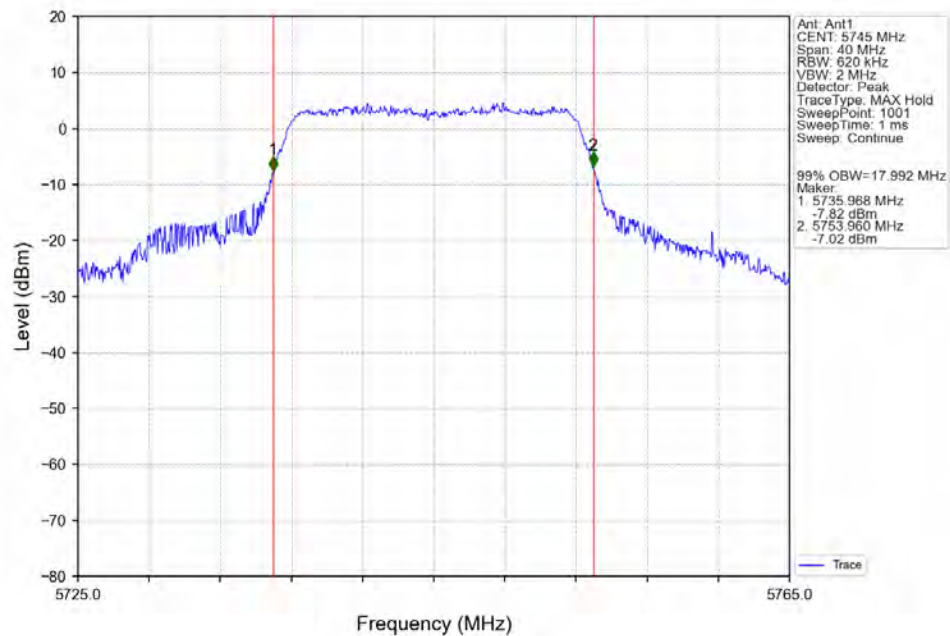
### 2.2.1 OBW



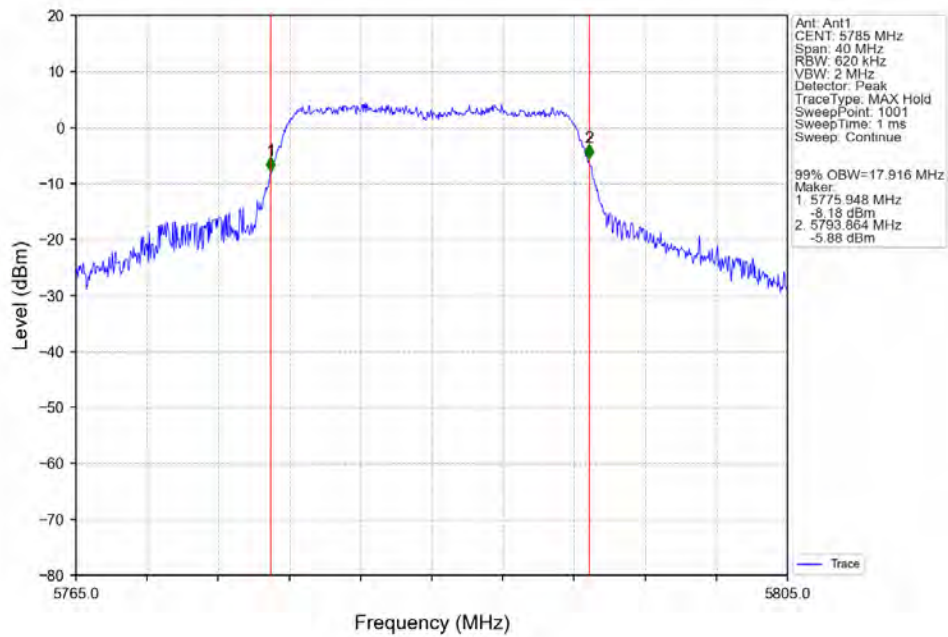
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



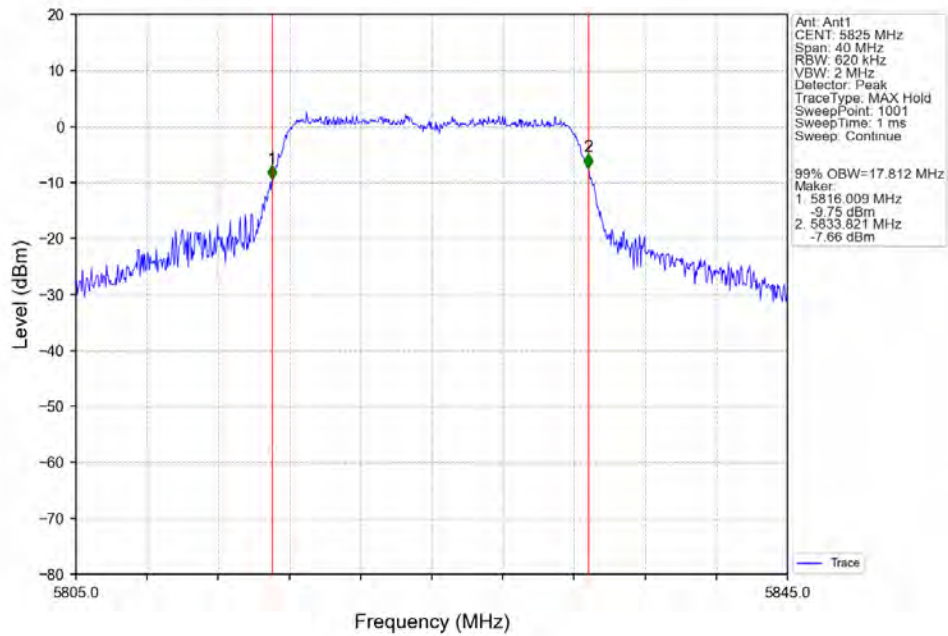
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



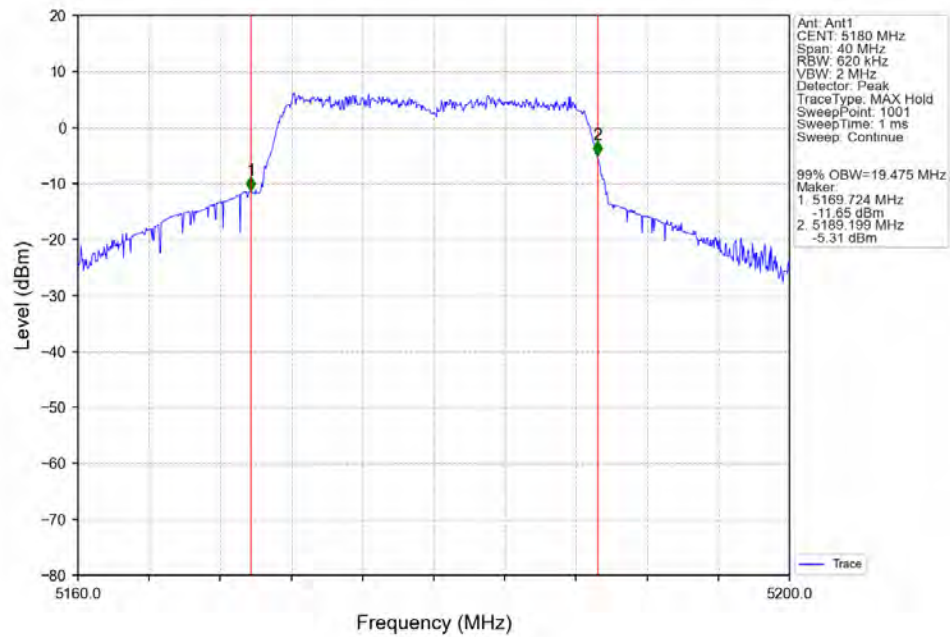
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



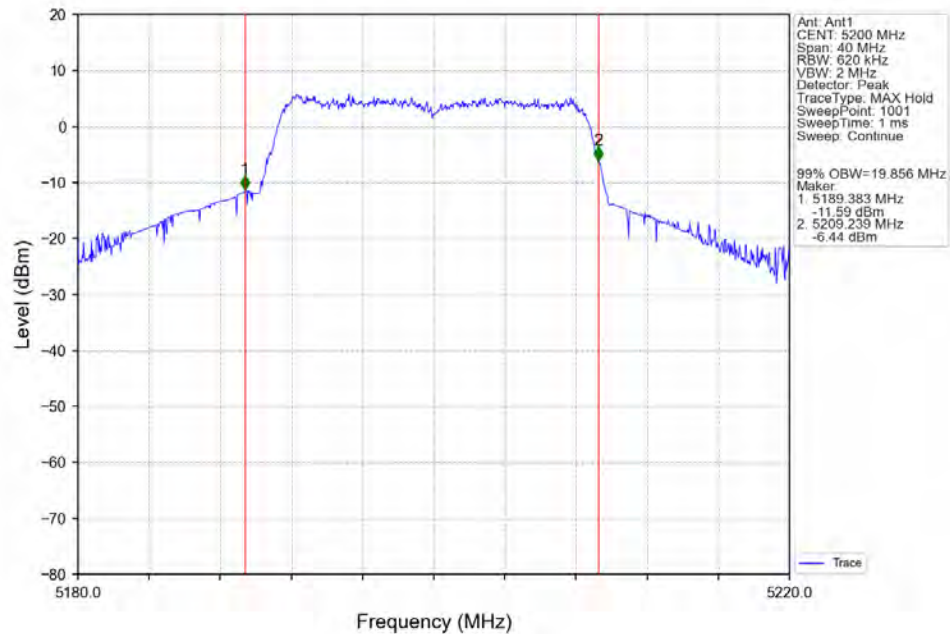
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



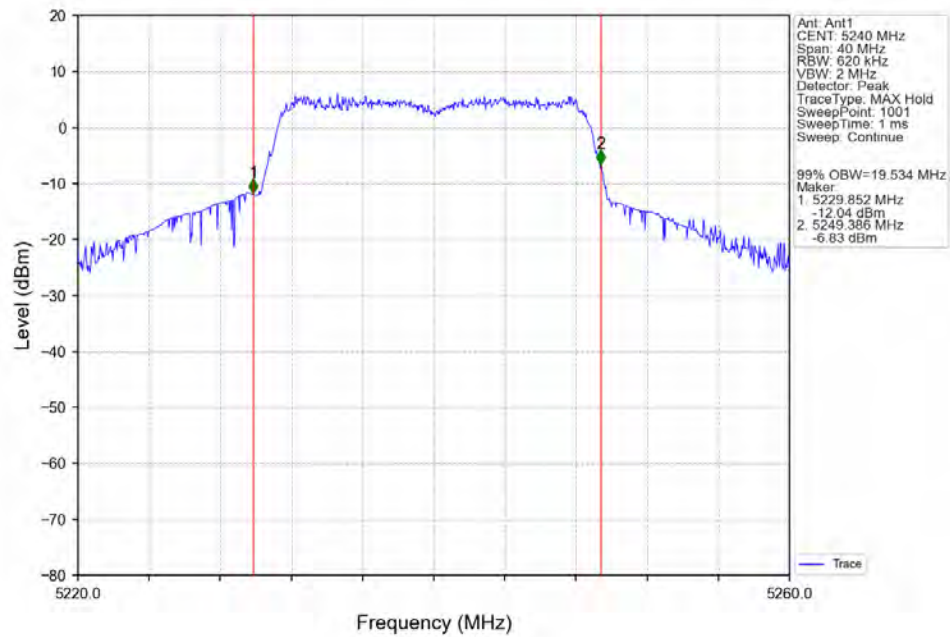
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



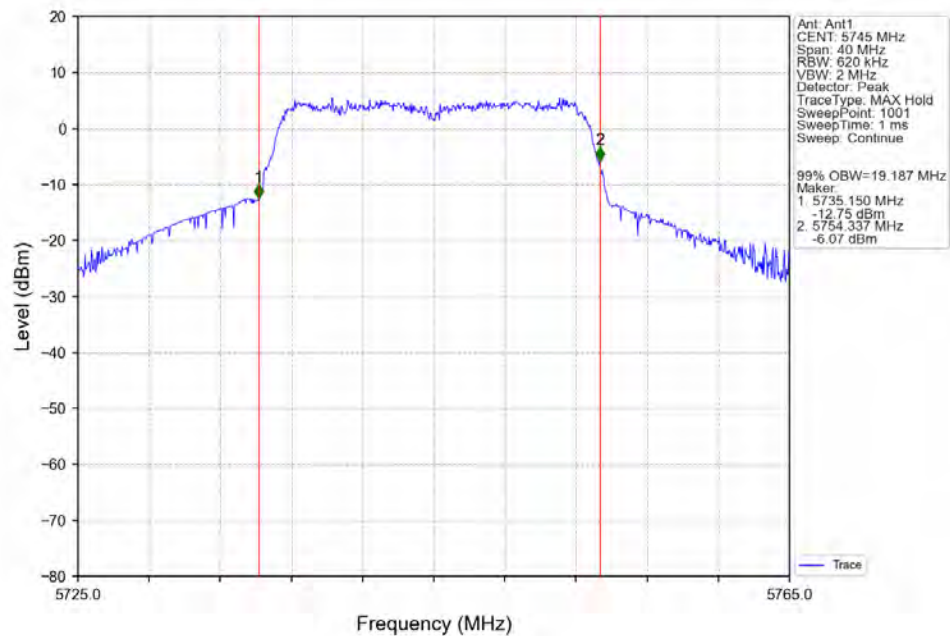
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



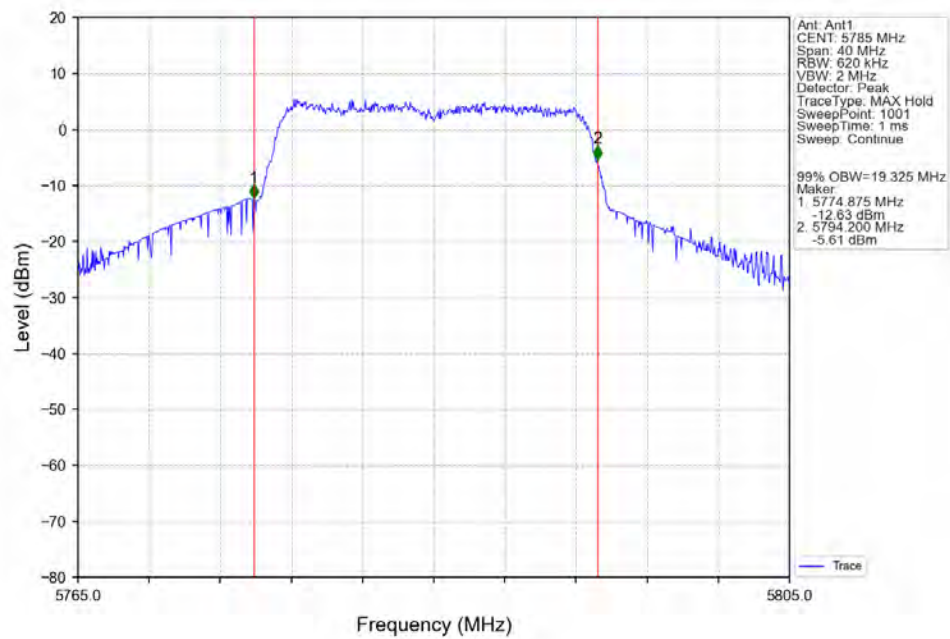
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



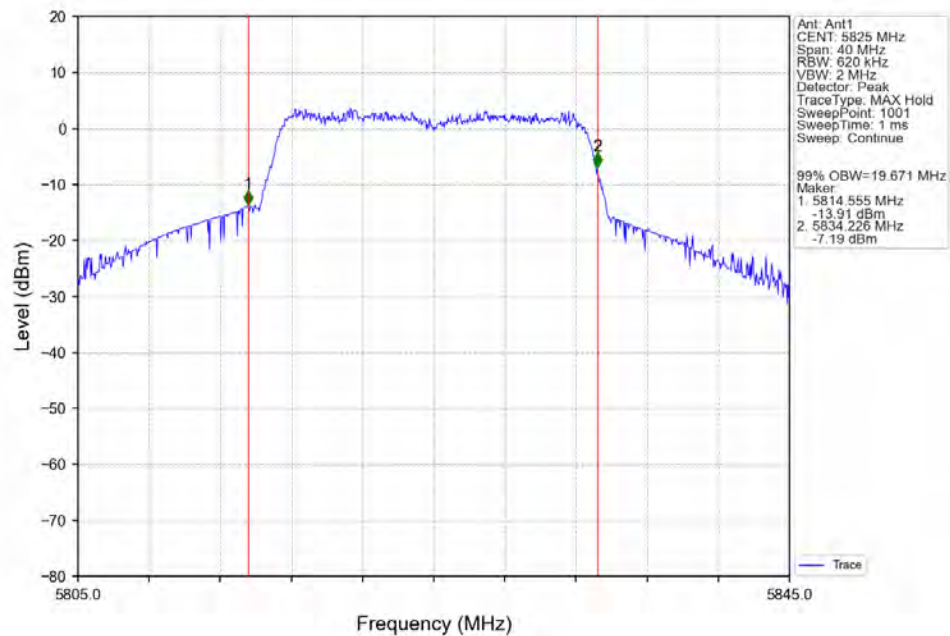
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



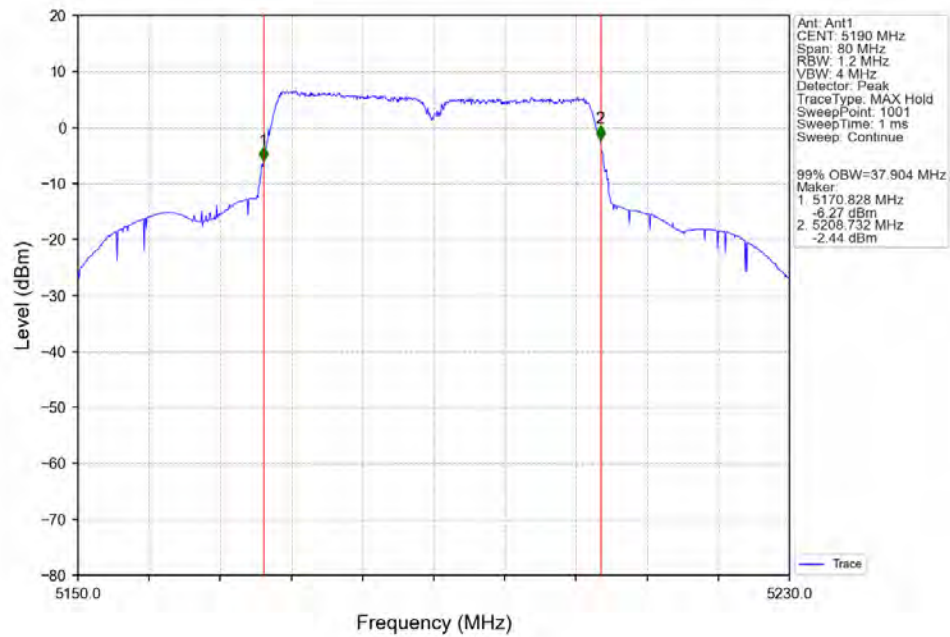
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



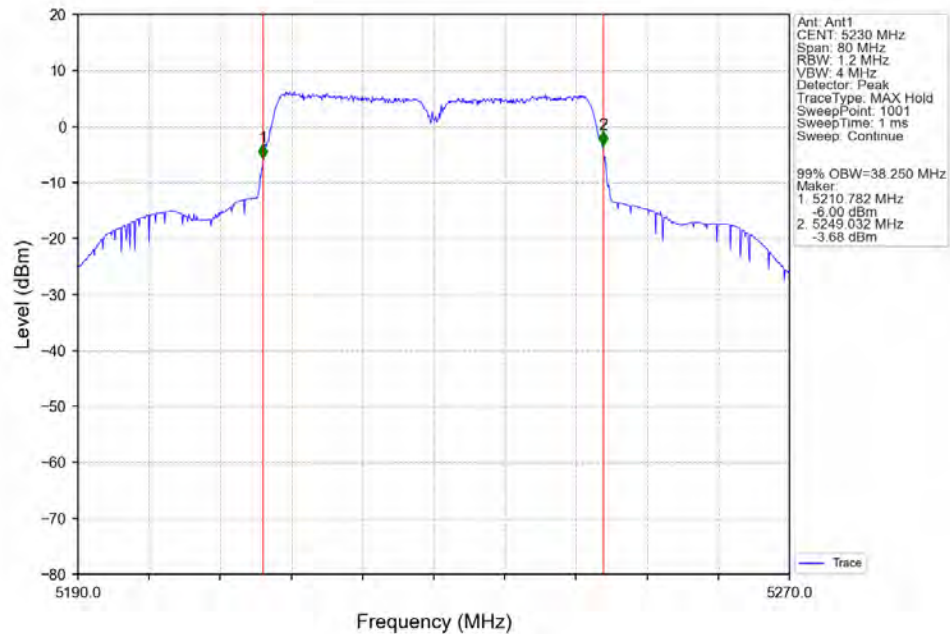
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



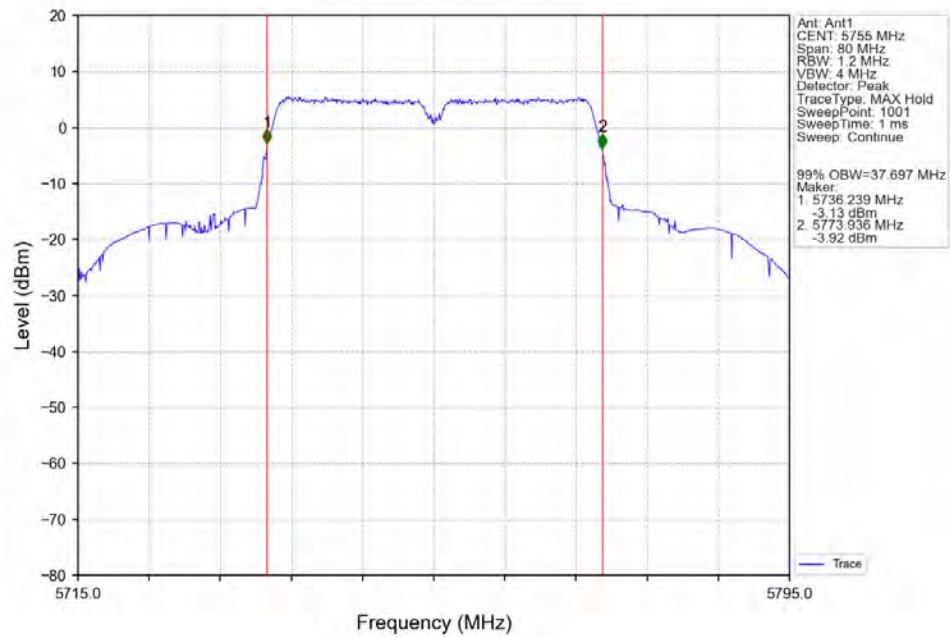
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



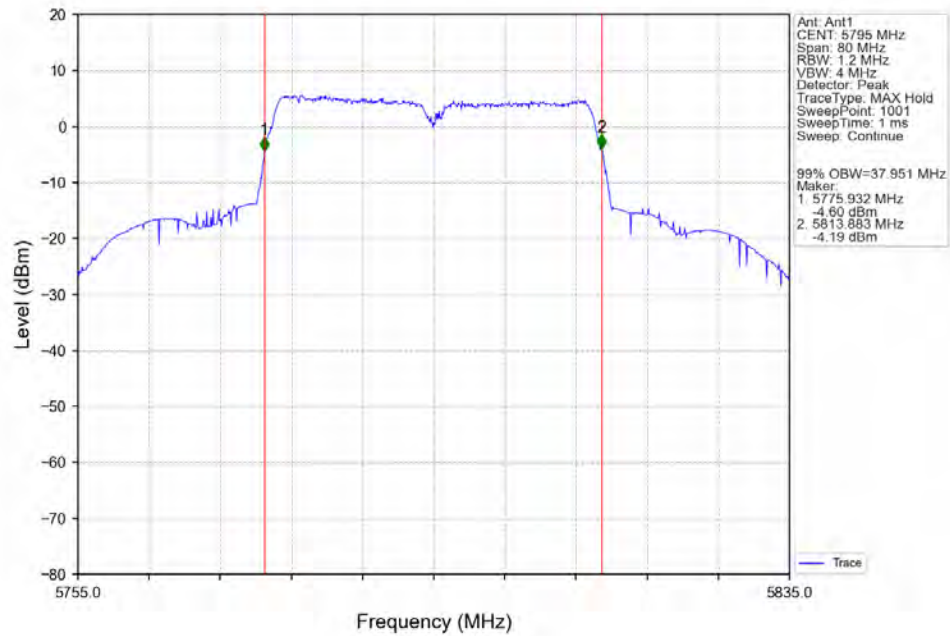
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



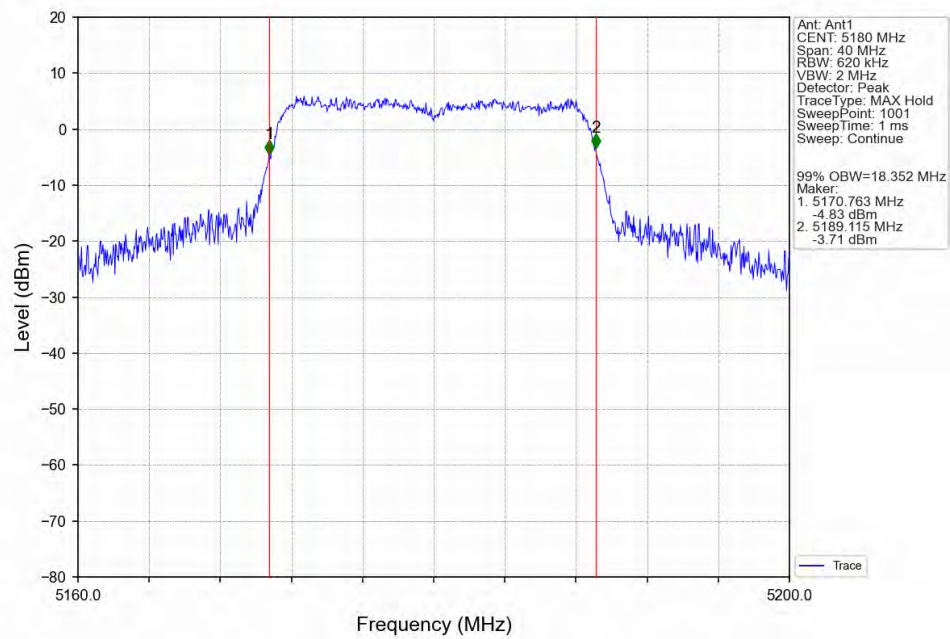
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



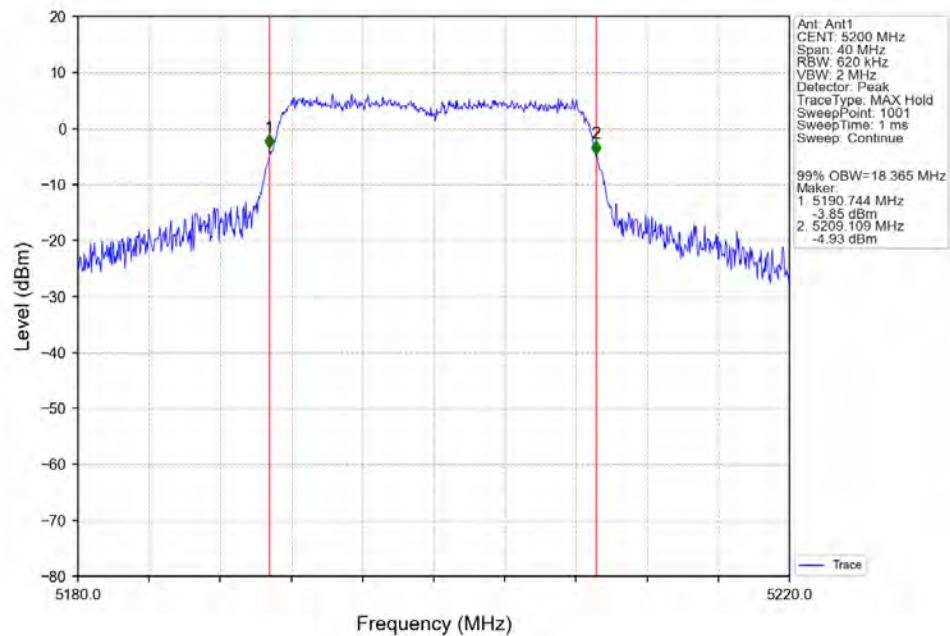
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



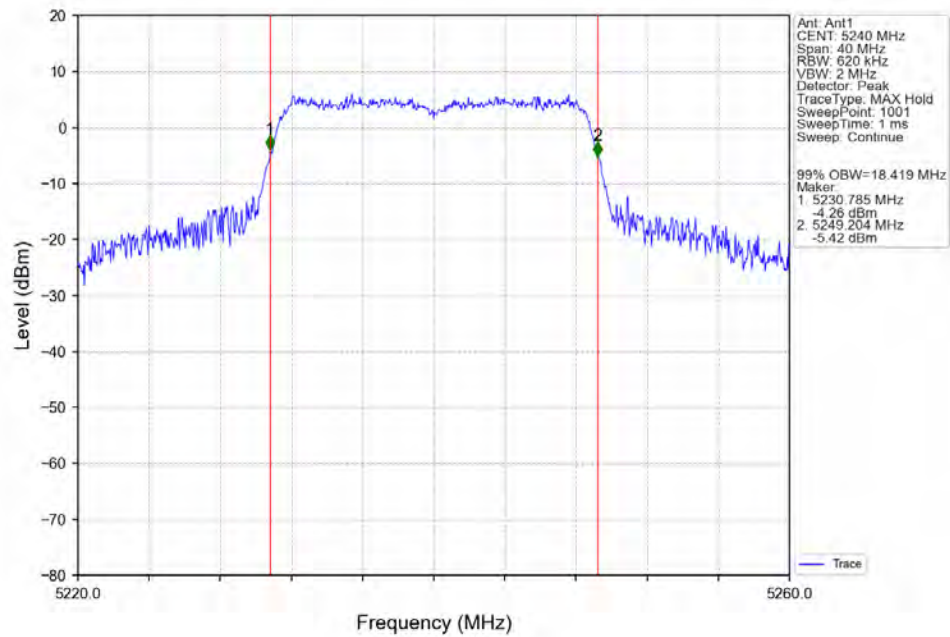
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



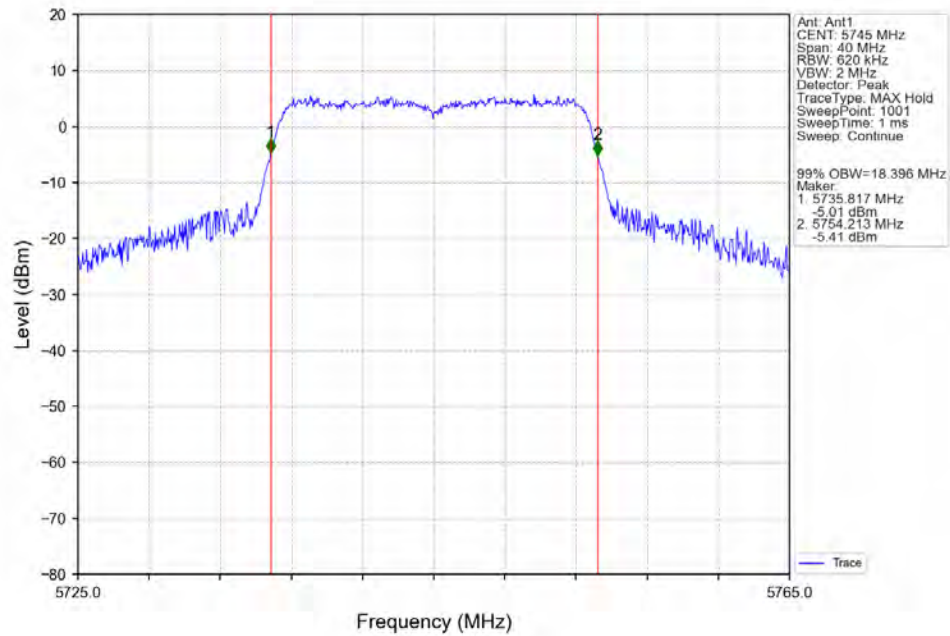
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



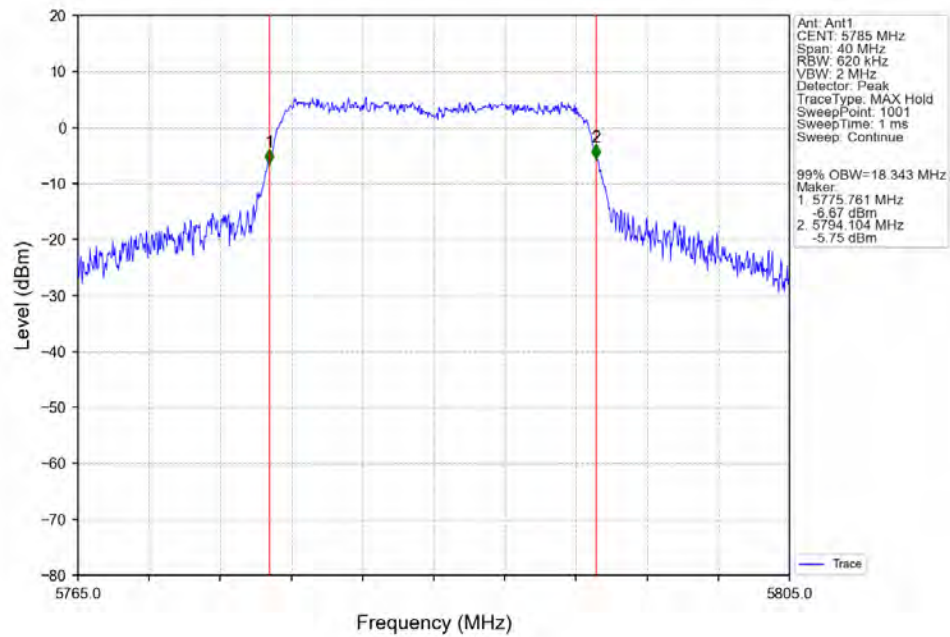
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



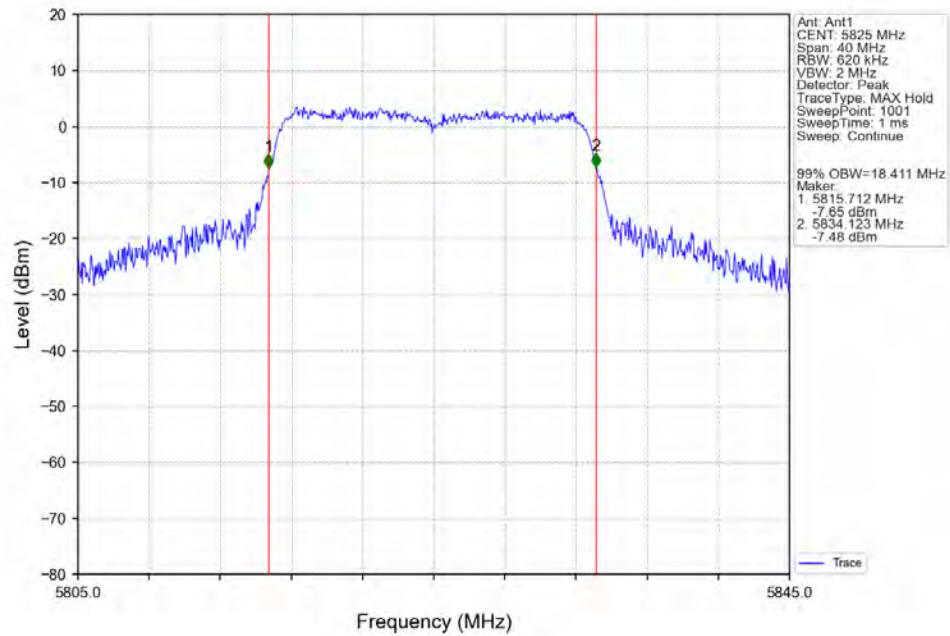
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



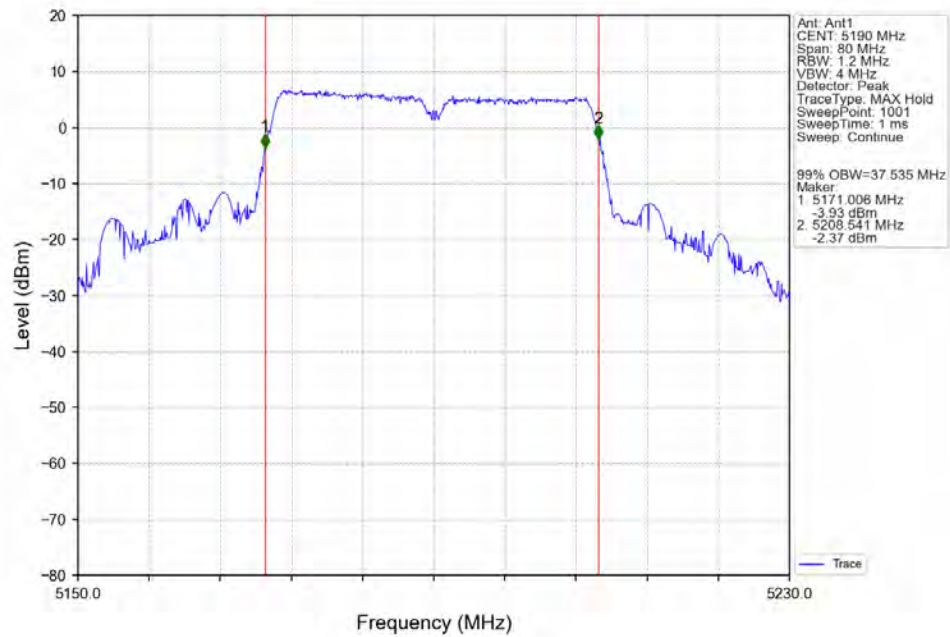
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



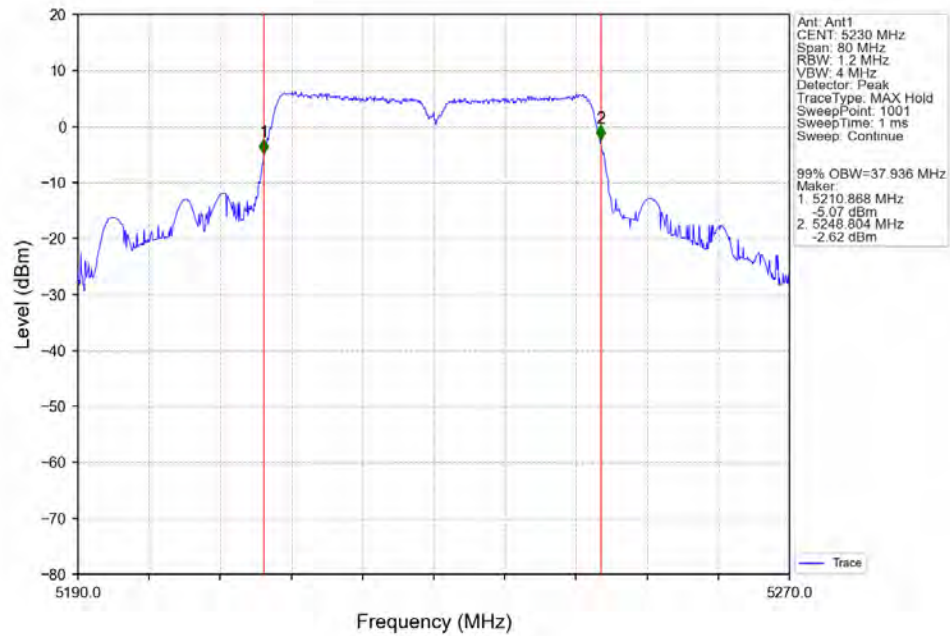
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



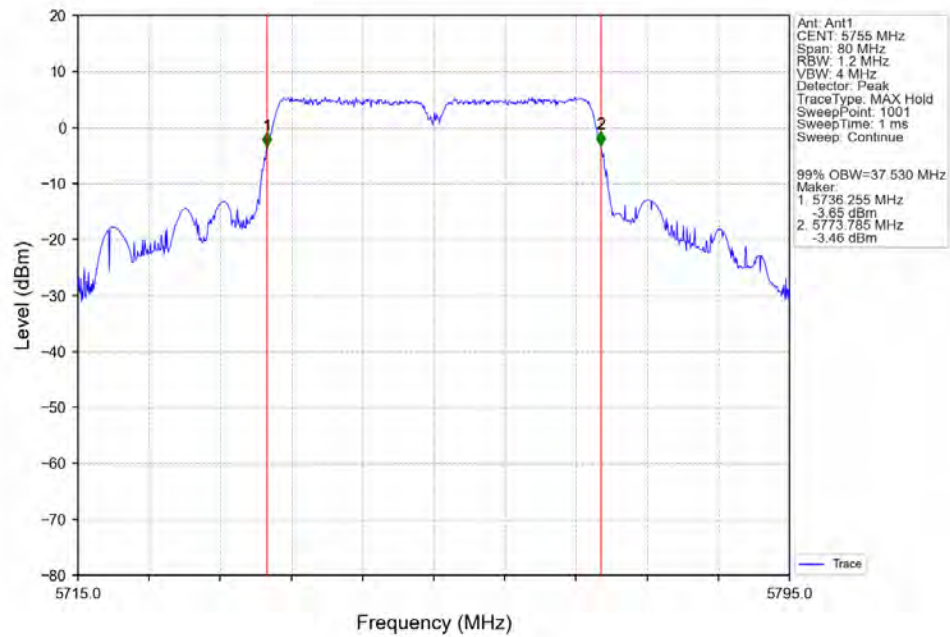
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



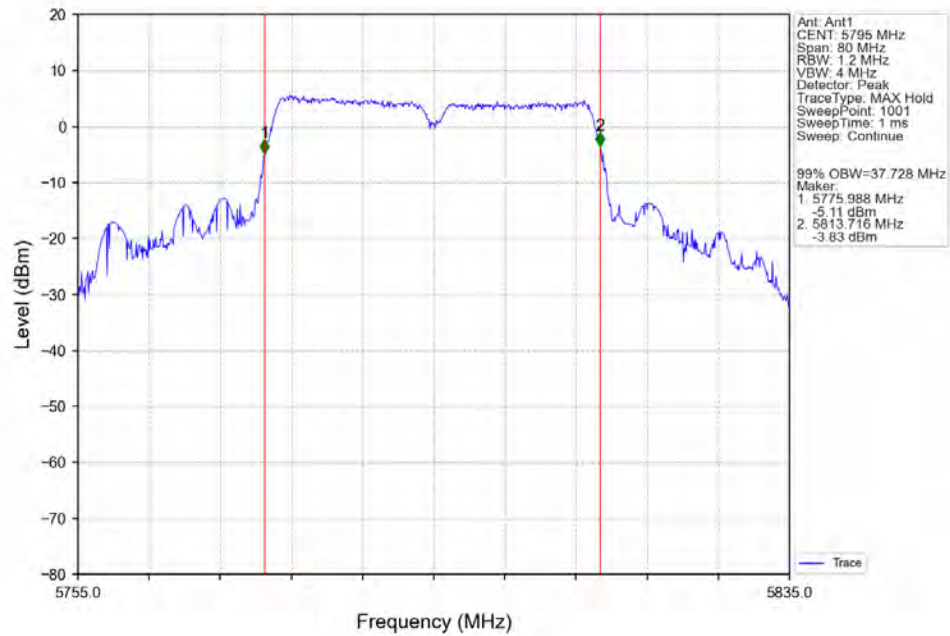
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



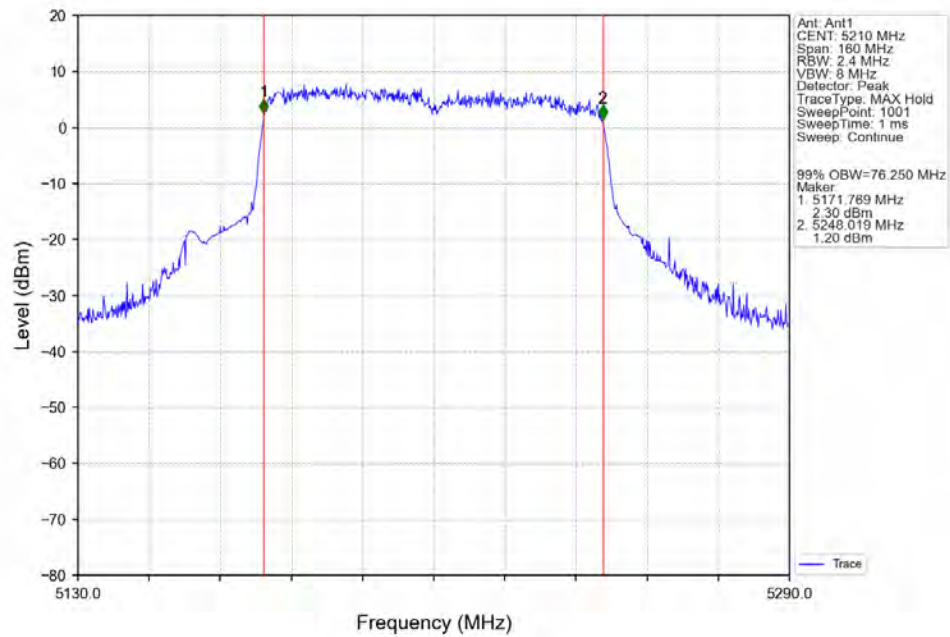
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



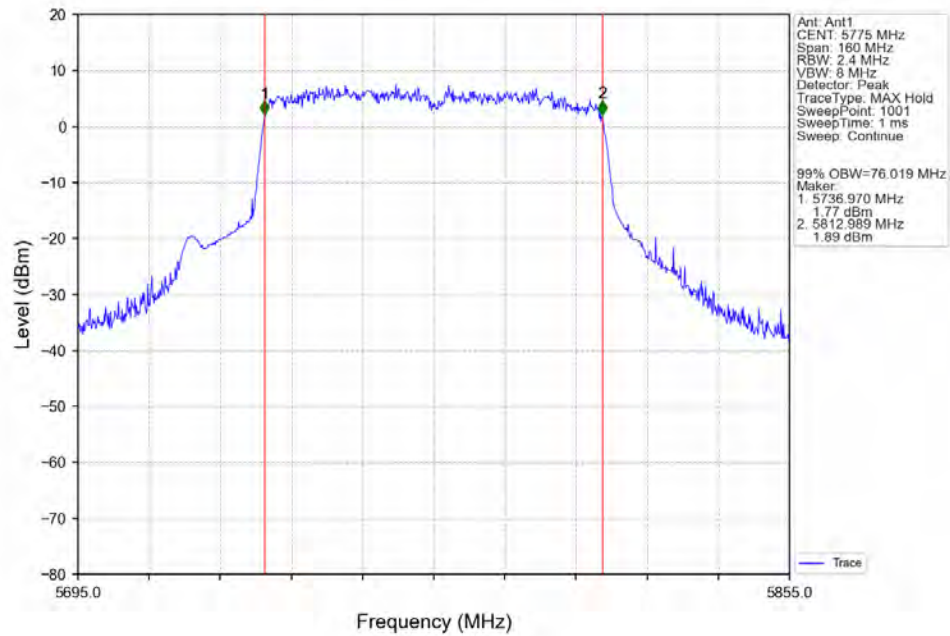
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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

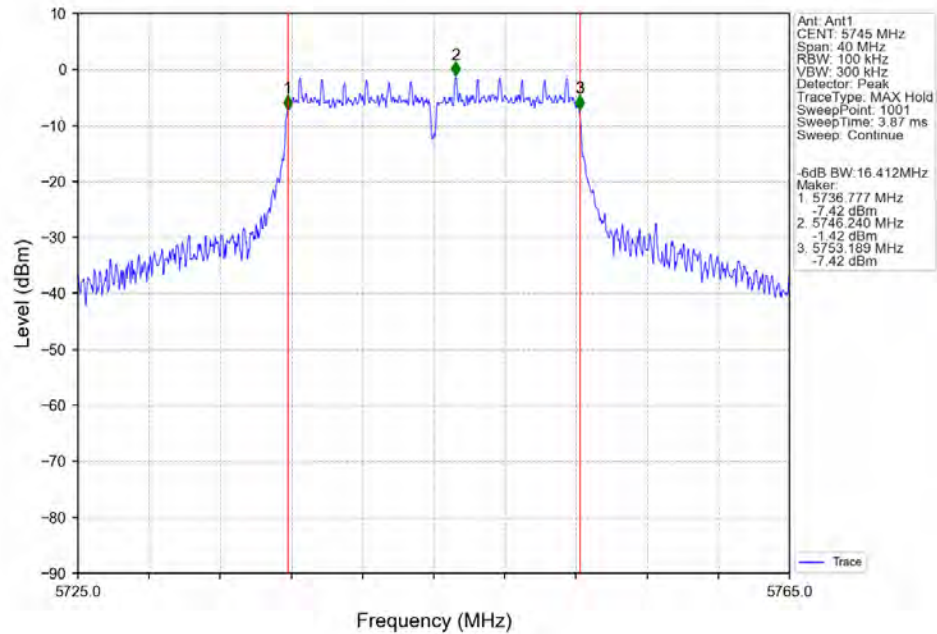


802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV

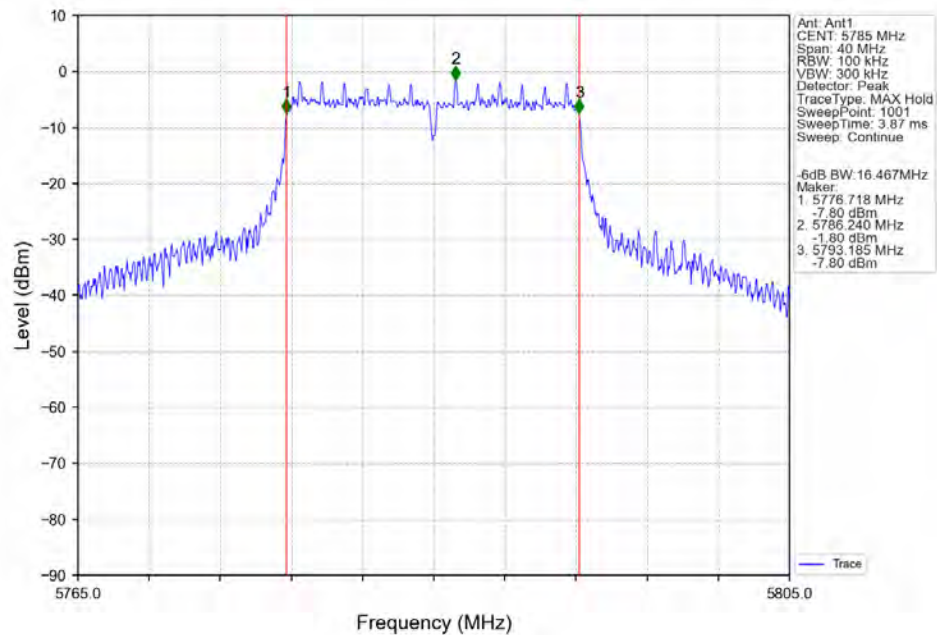


## 2.2.2 6dB BW

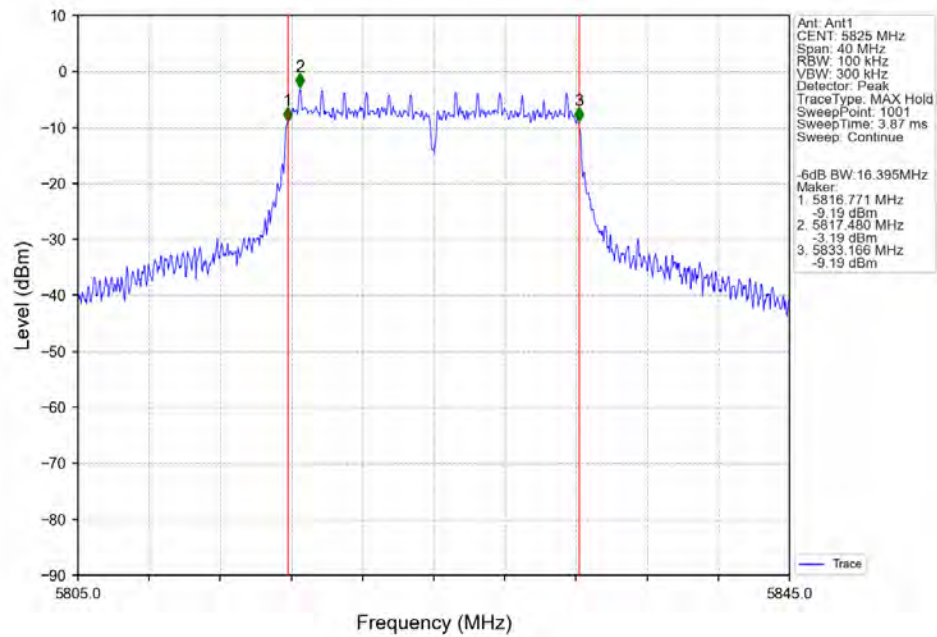
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



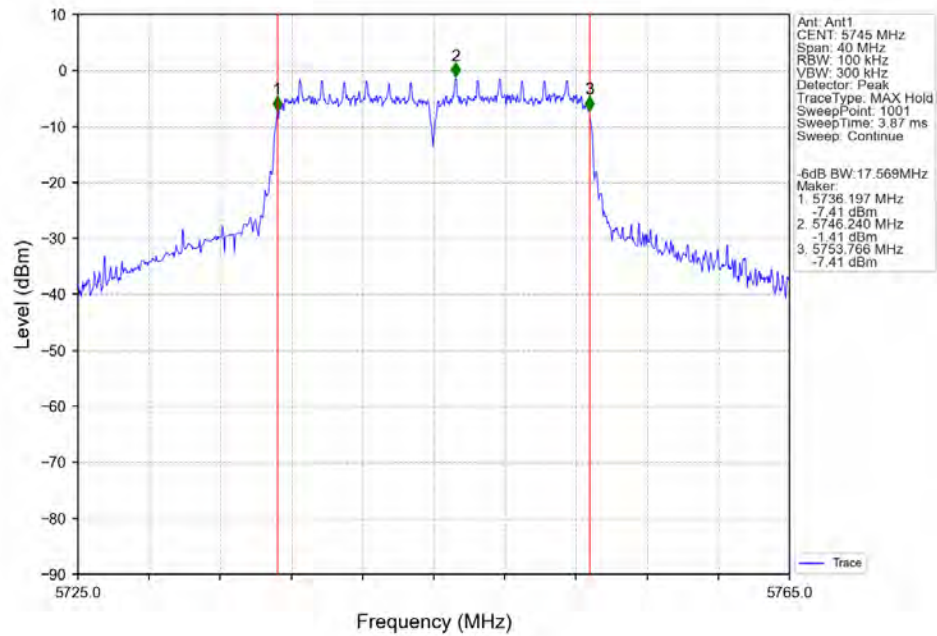
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



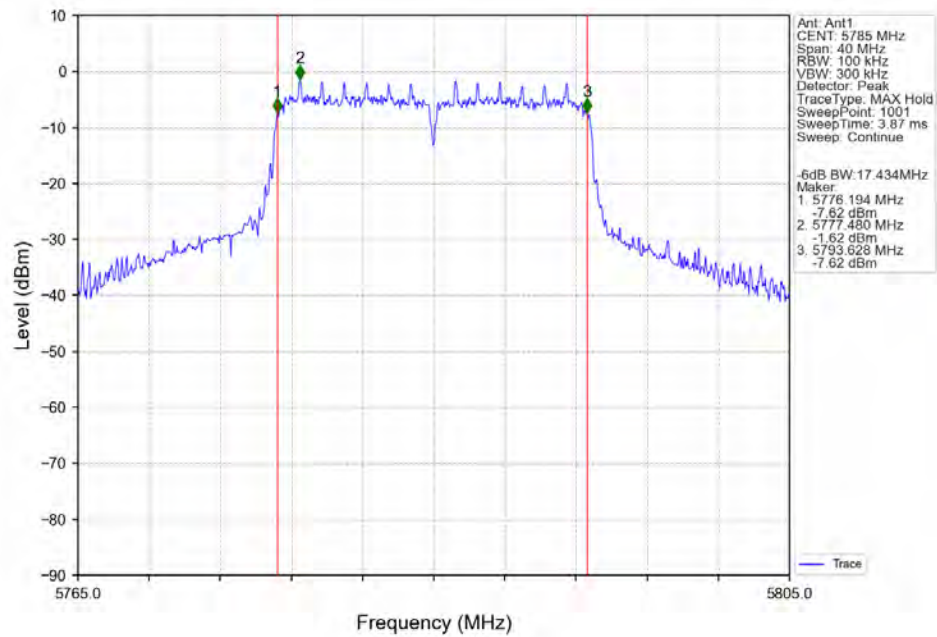
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



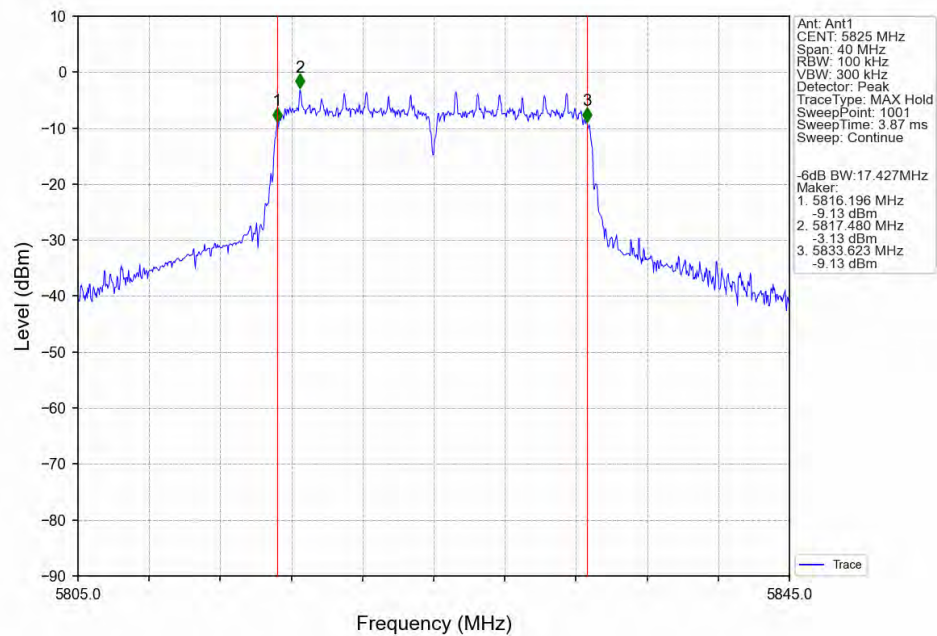
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



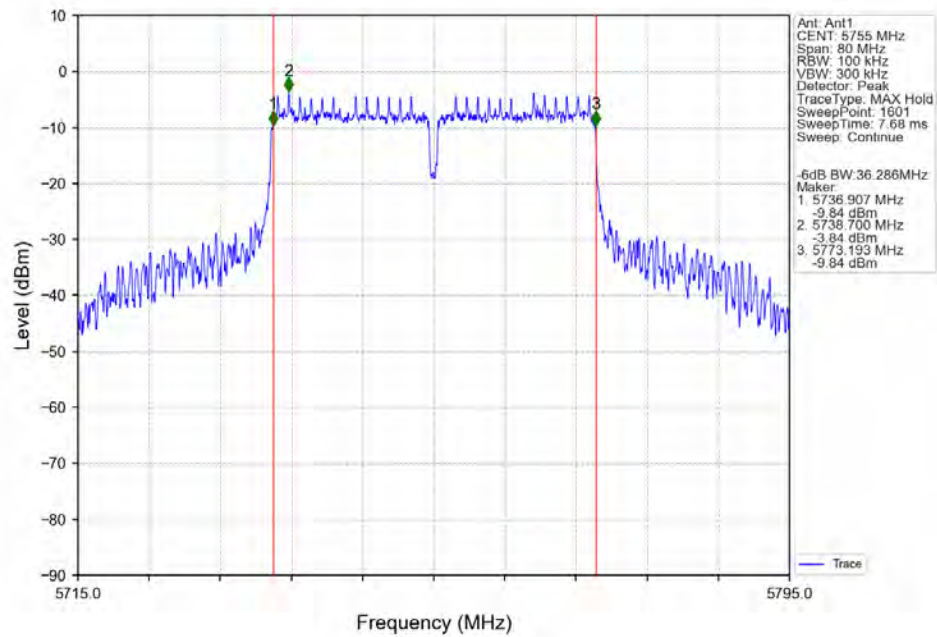
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



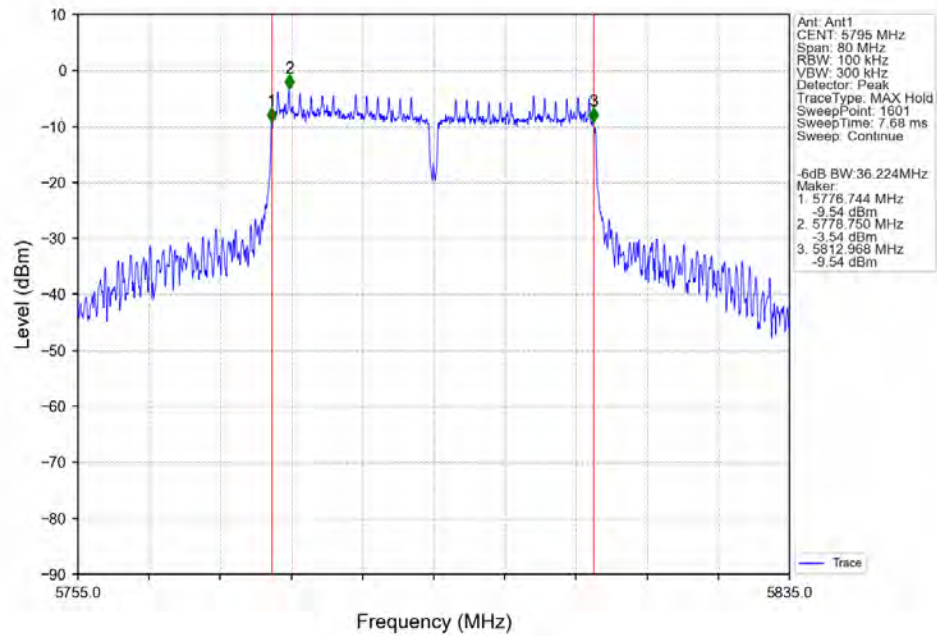
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



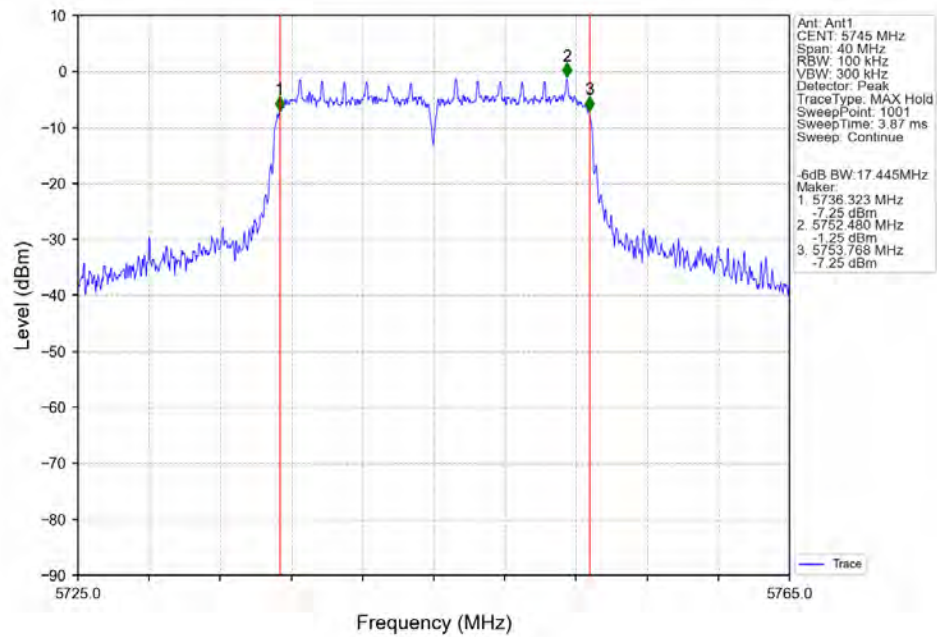
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



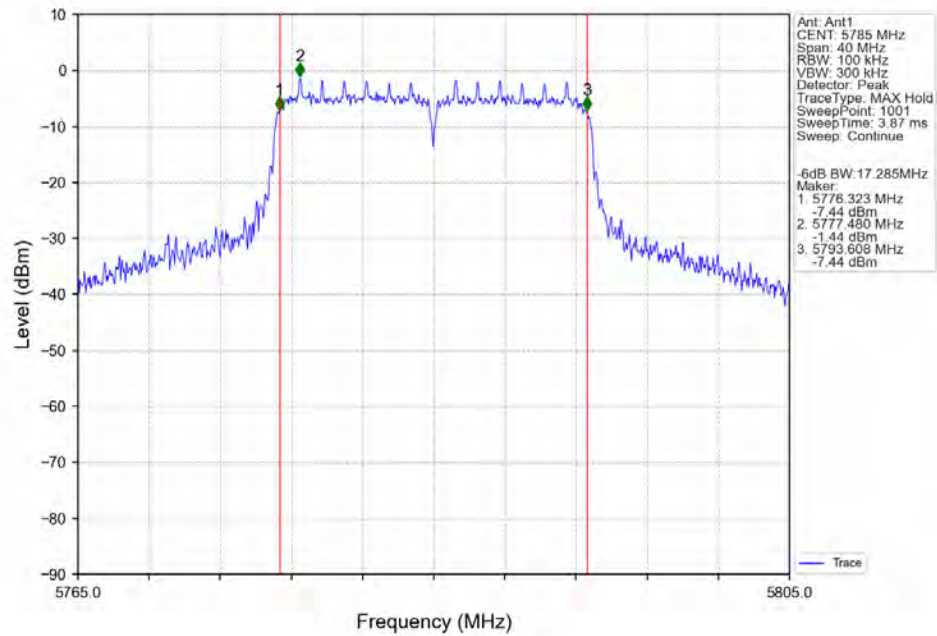
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



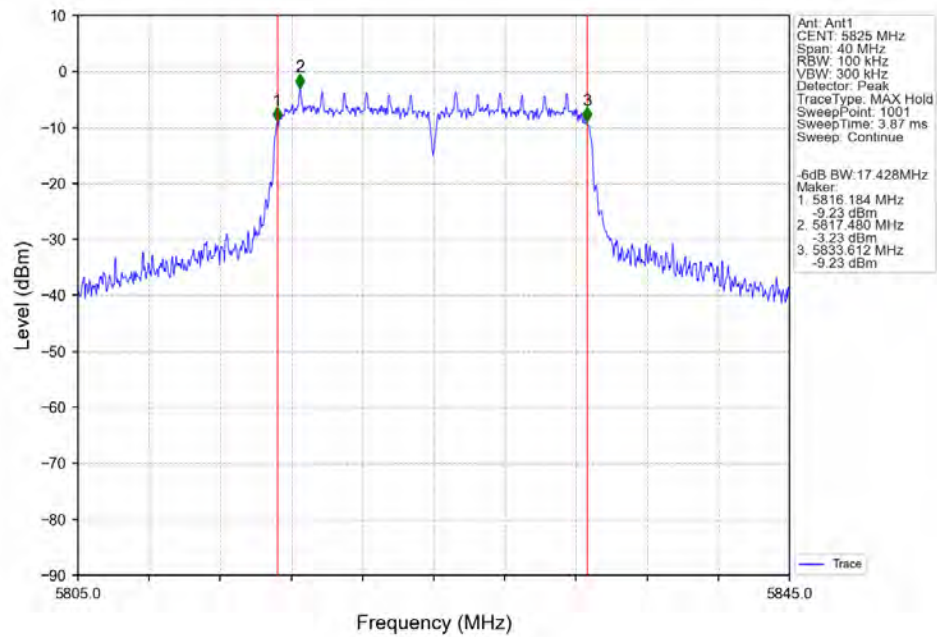
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



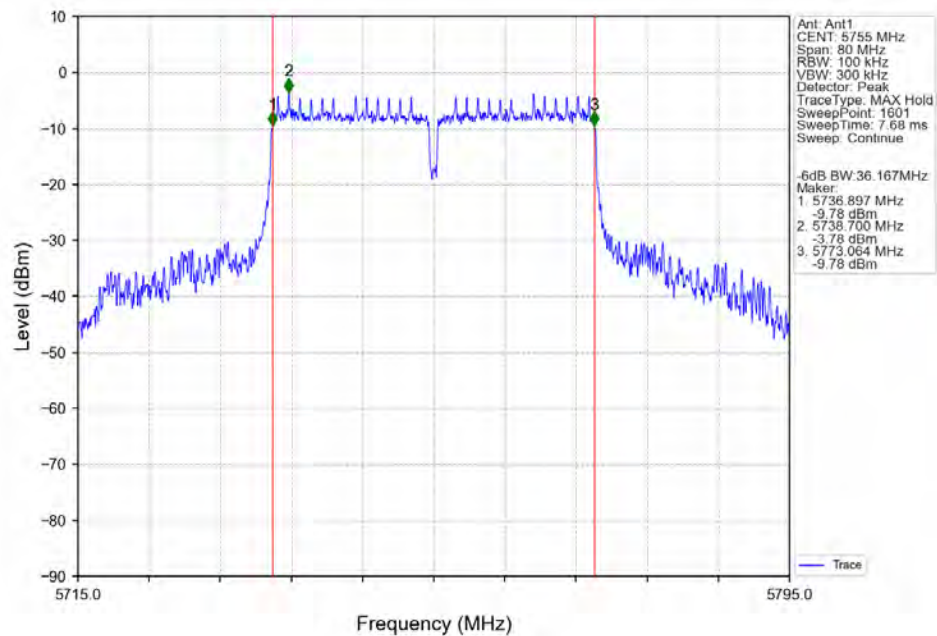
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



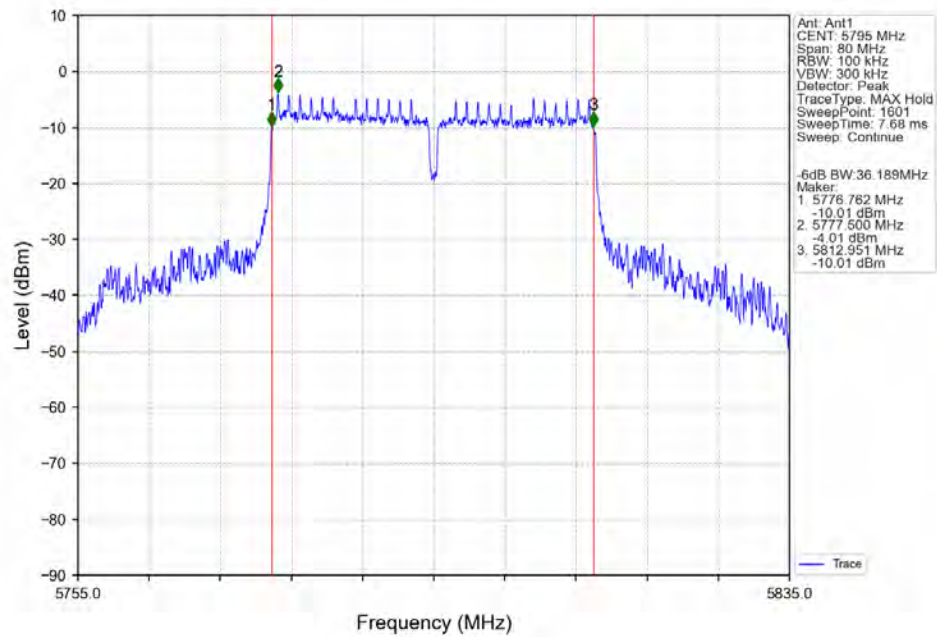
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



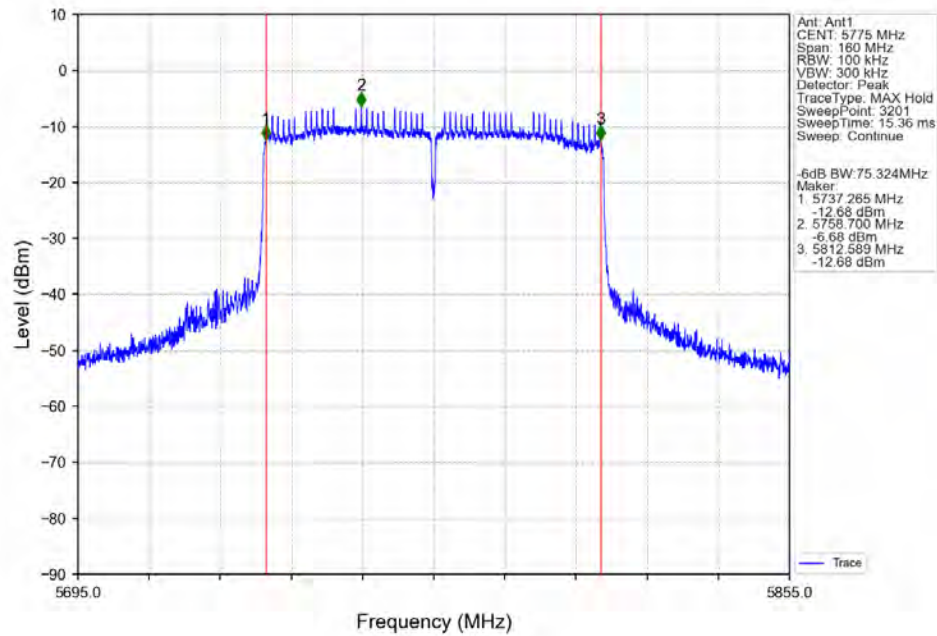
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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

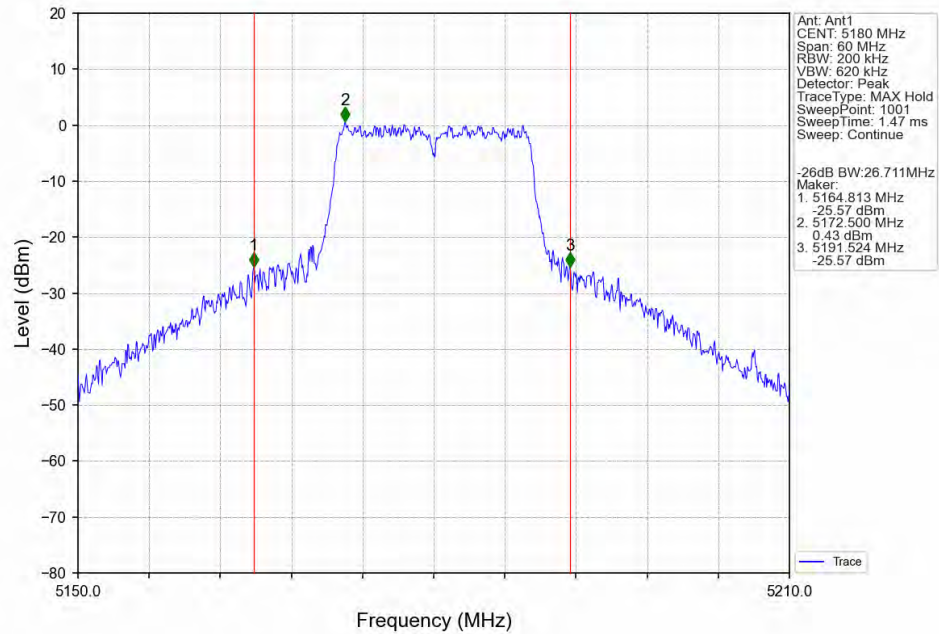


802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV

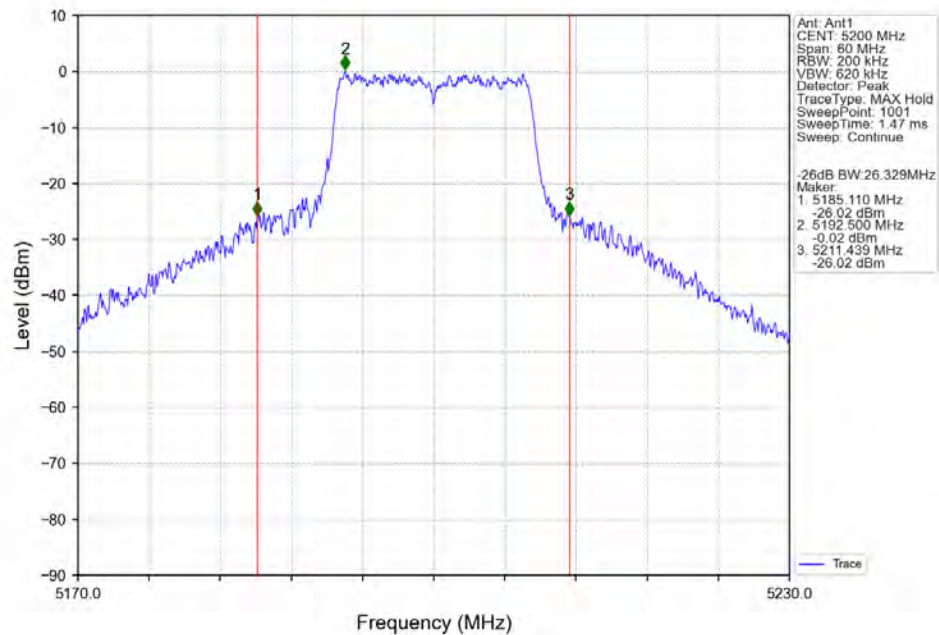


### 2.2.3 26dB BW

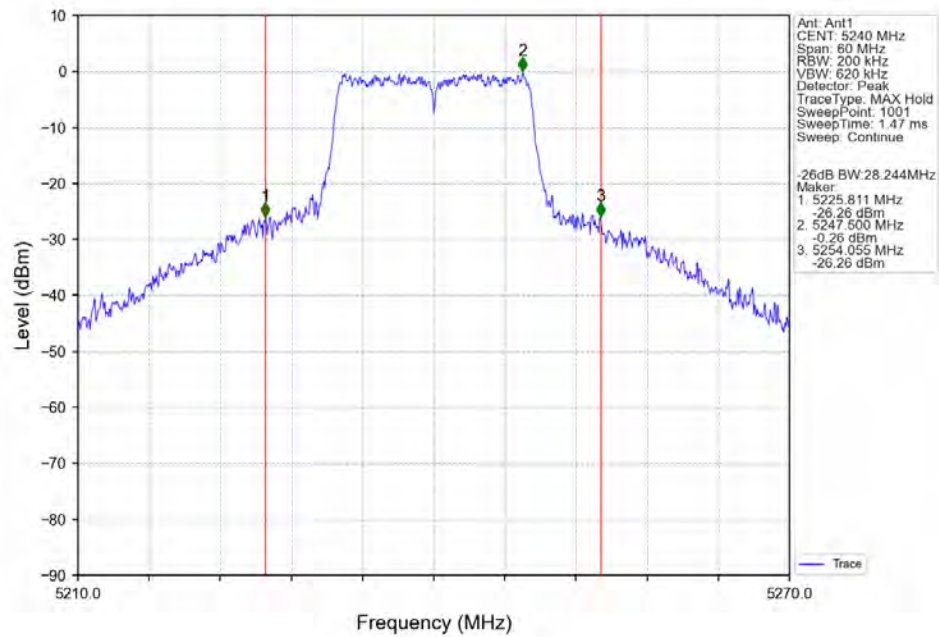
802.11a\_LCH\_5180MHz\_Ant1\_NTNV



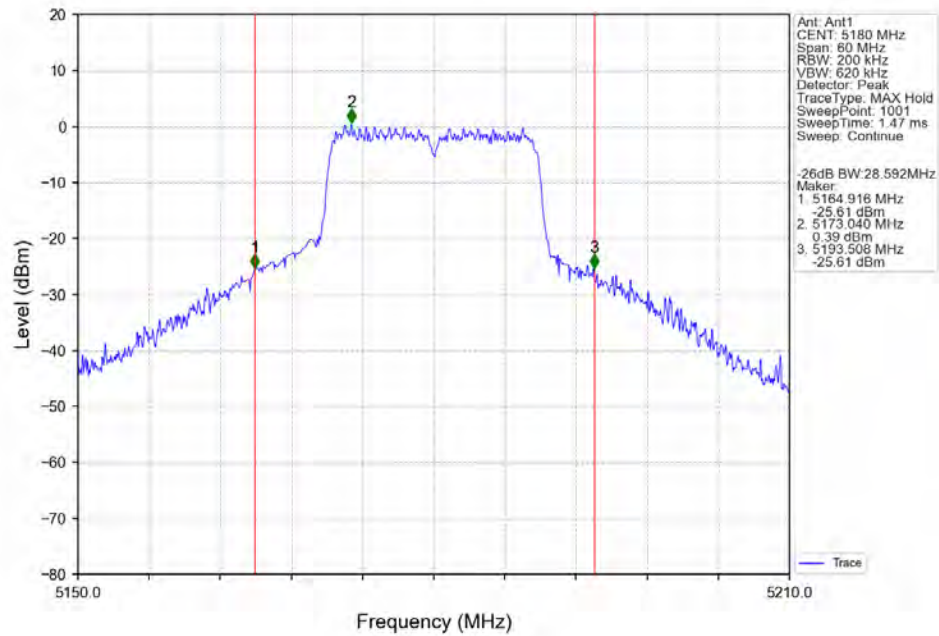
802.11a\_MCH\_5200MHz\_Ant1\_NTNV



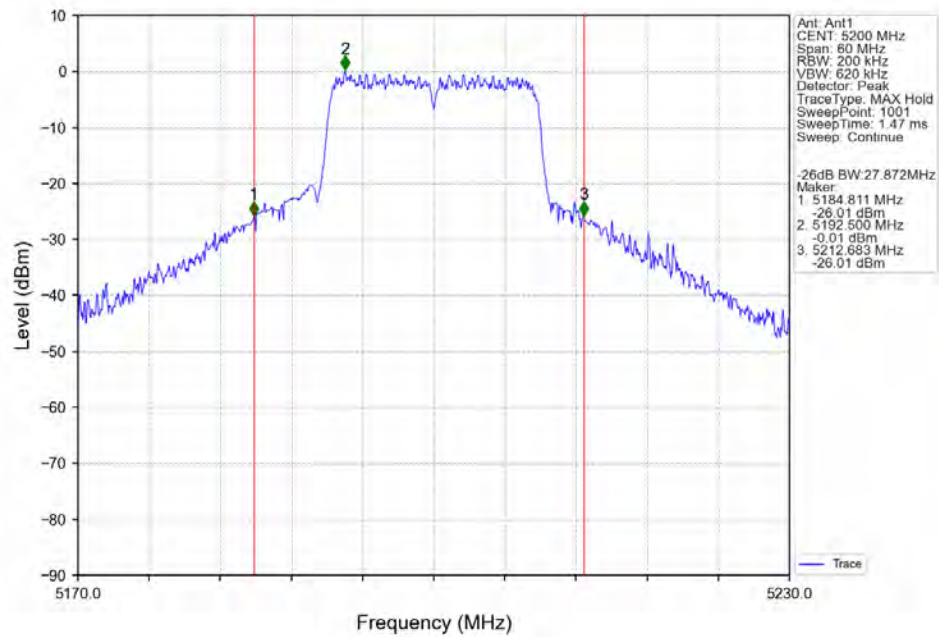
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



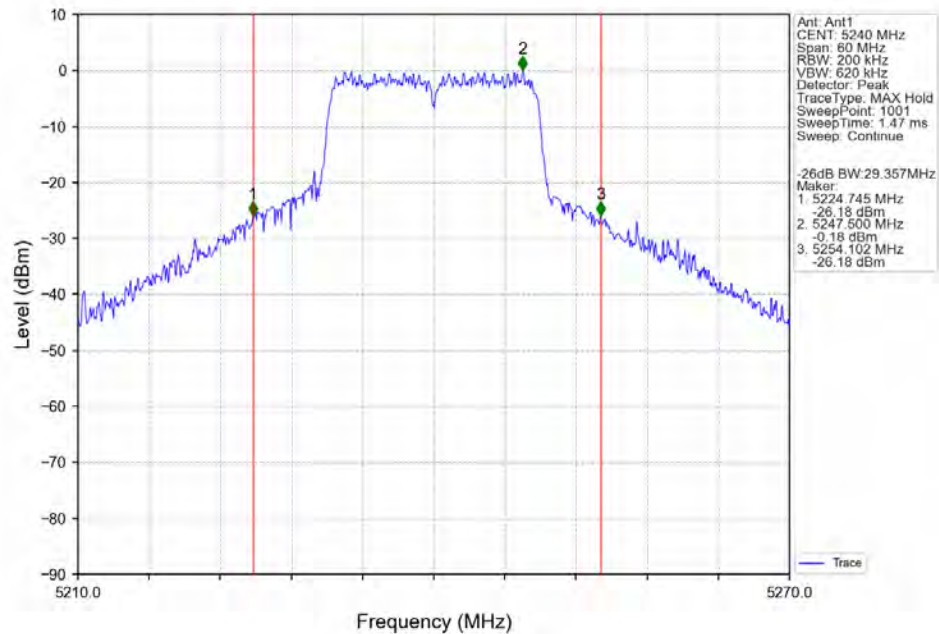
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



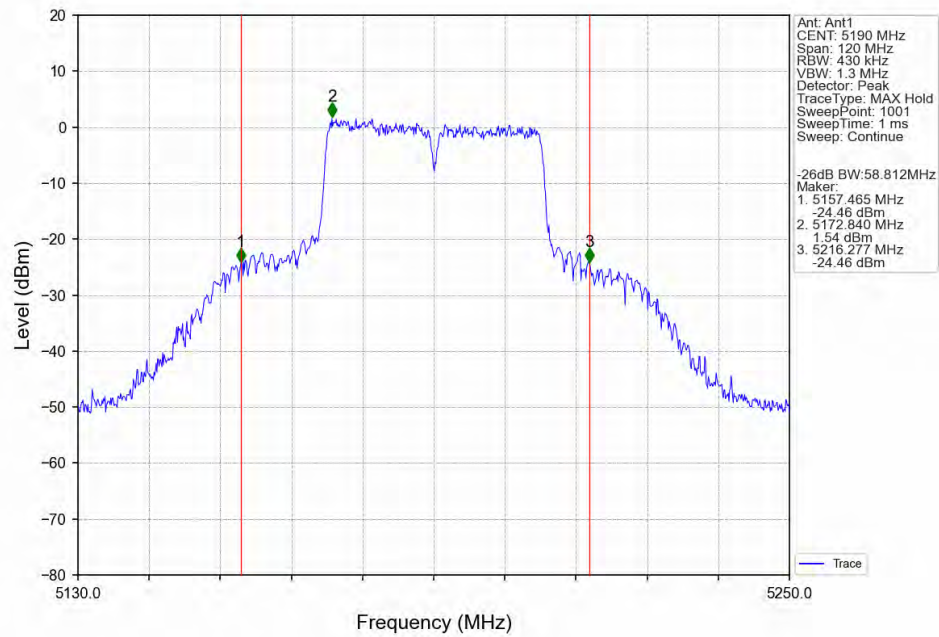
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



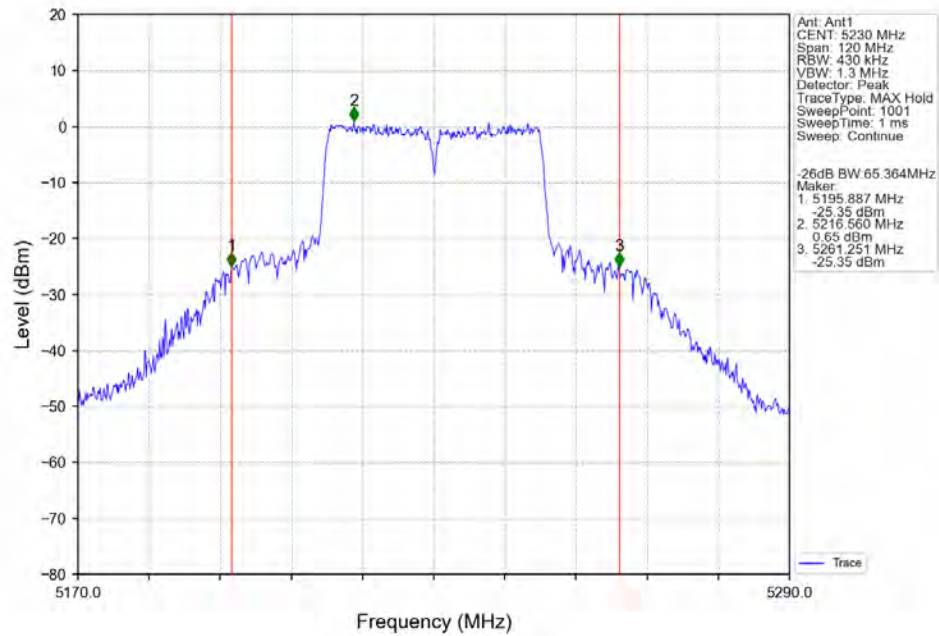
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



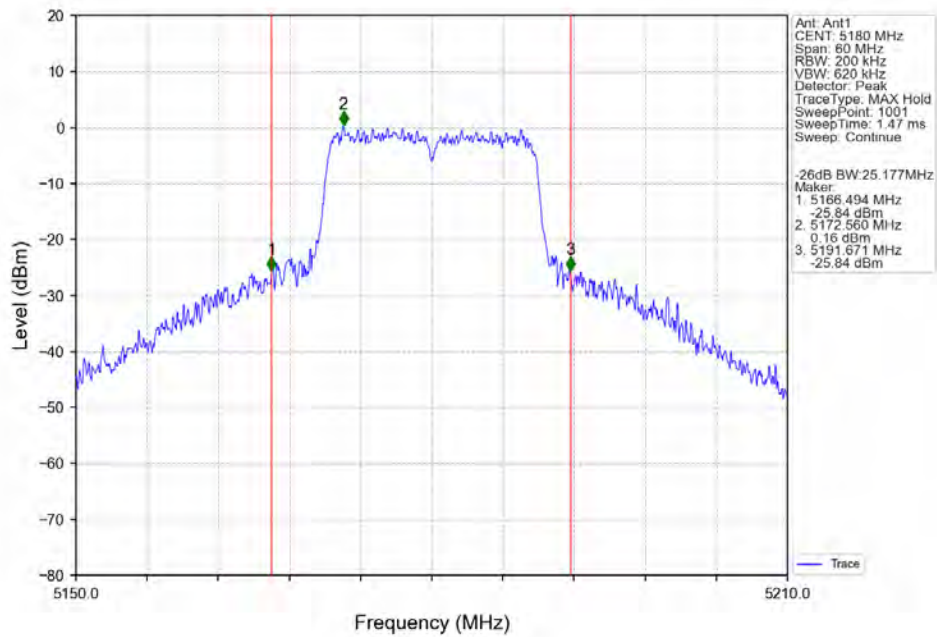
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



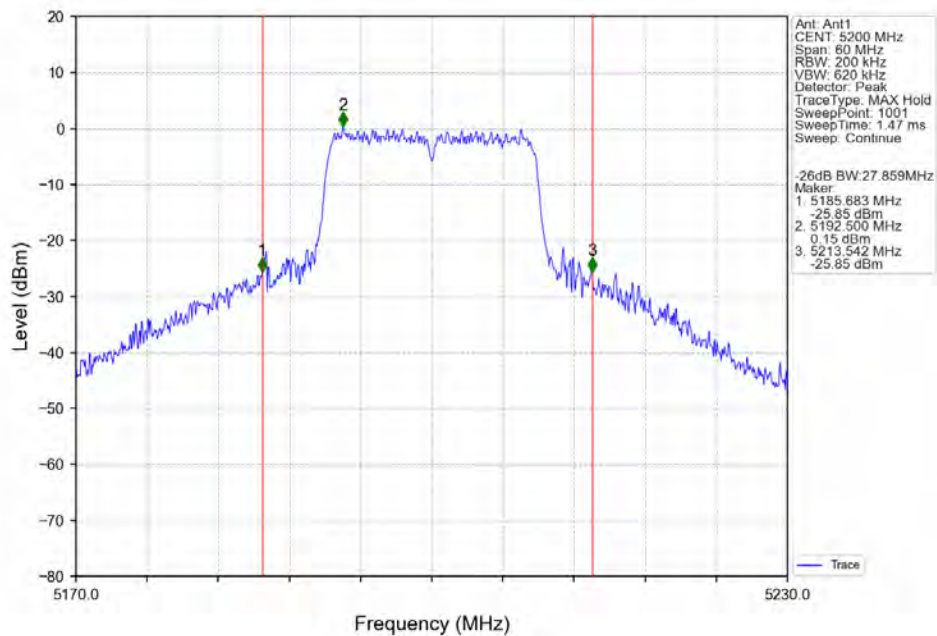
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



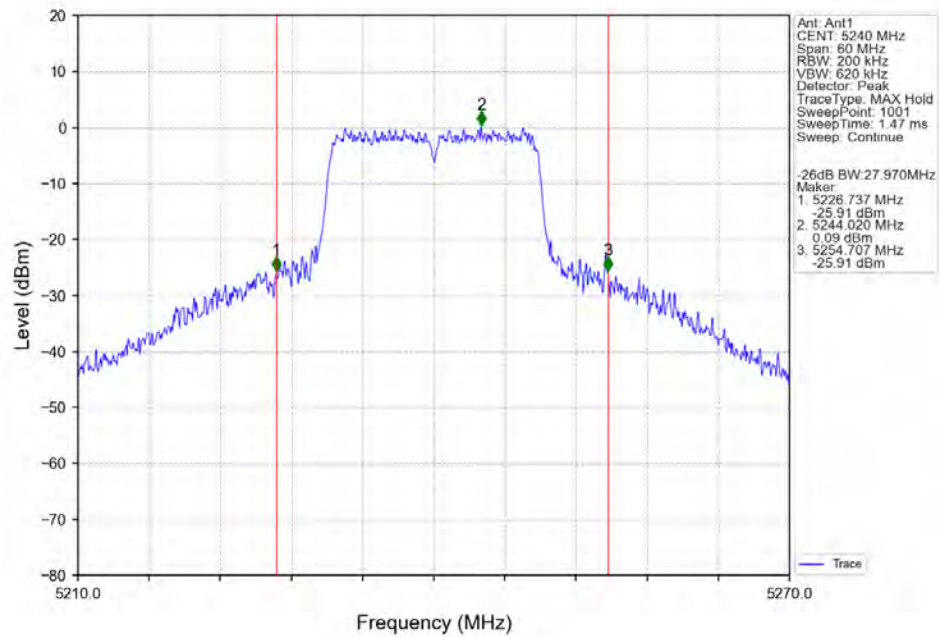
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



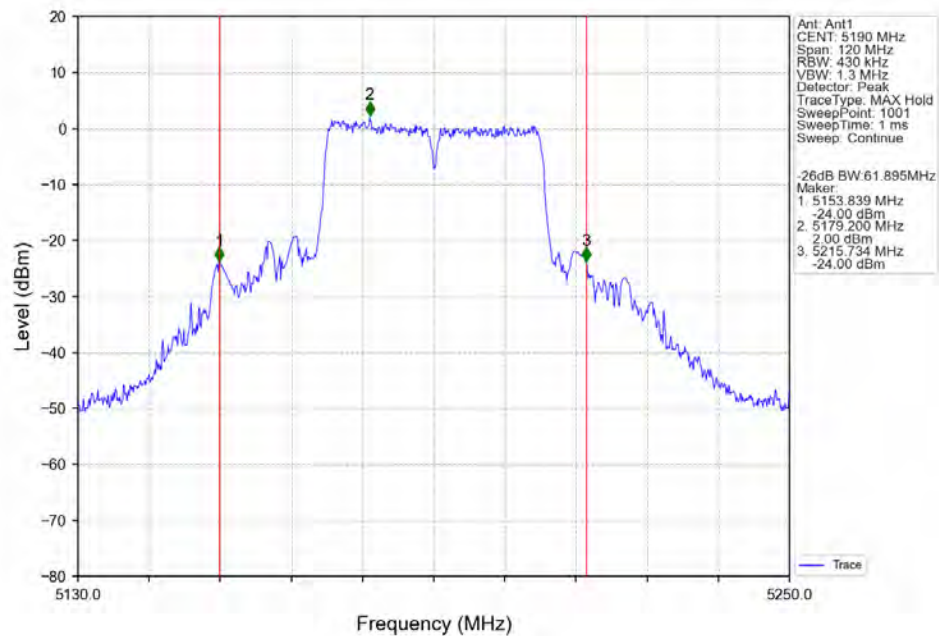
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



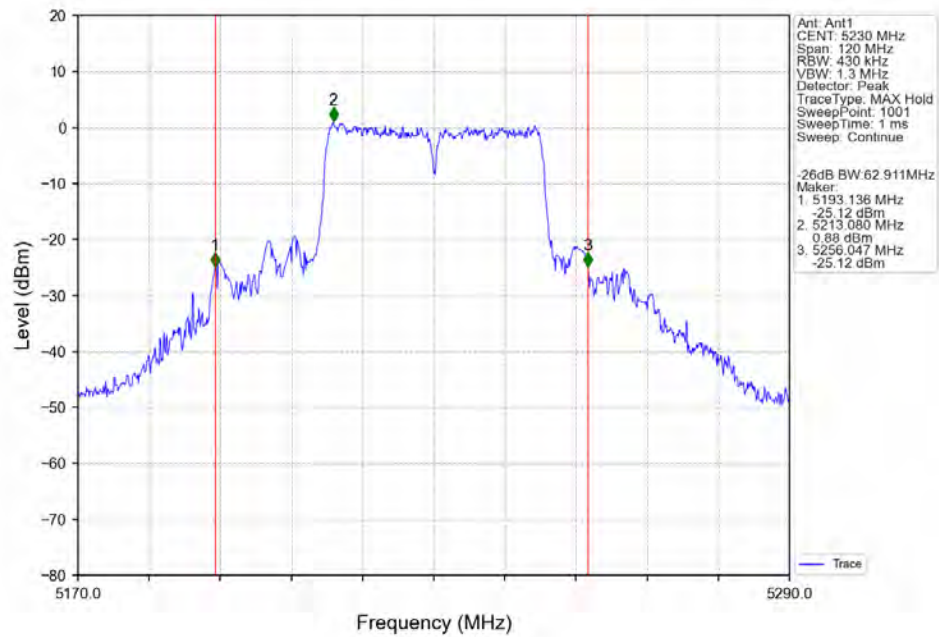
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



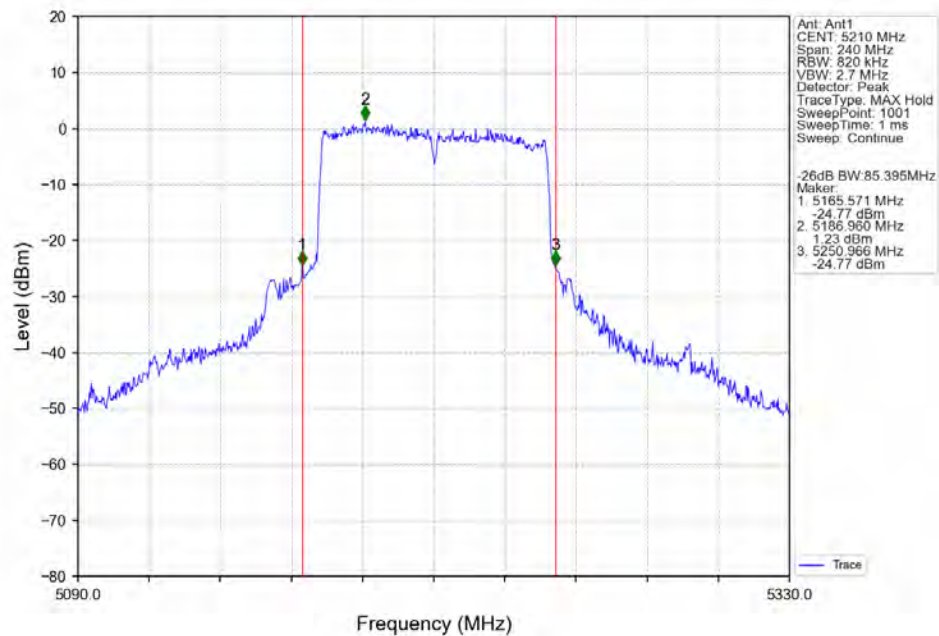
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



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



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

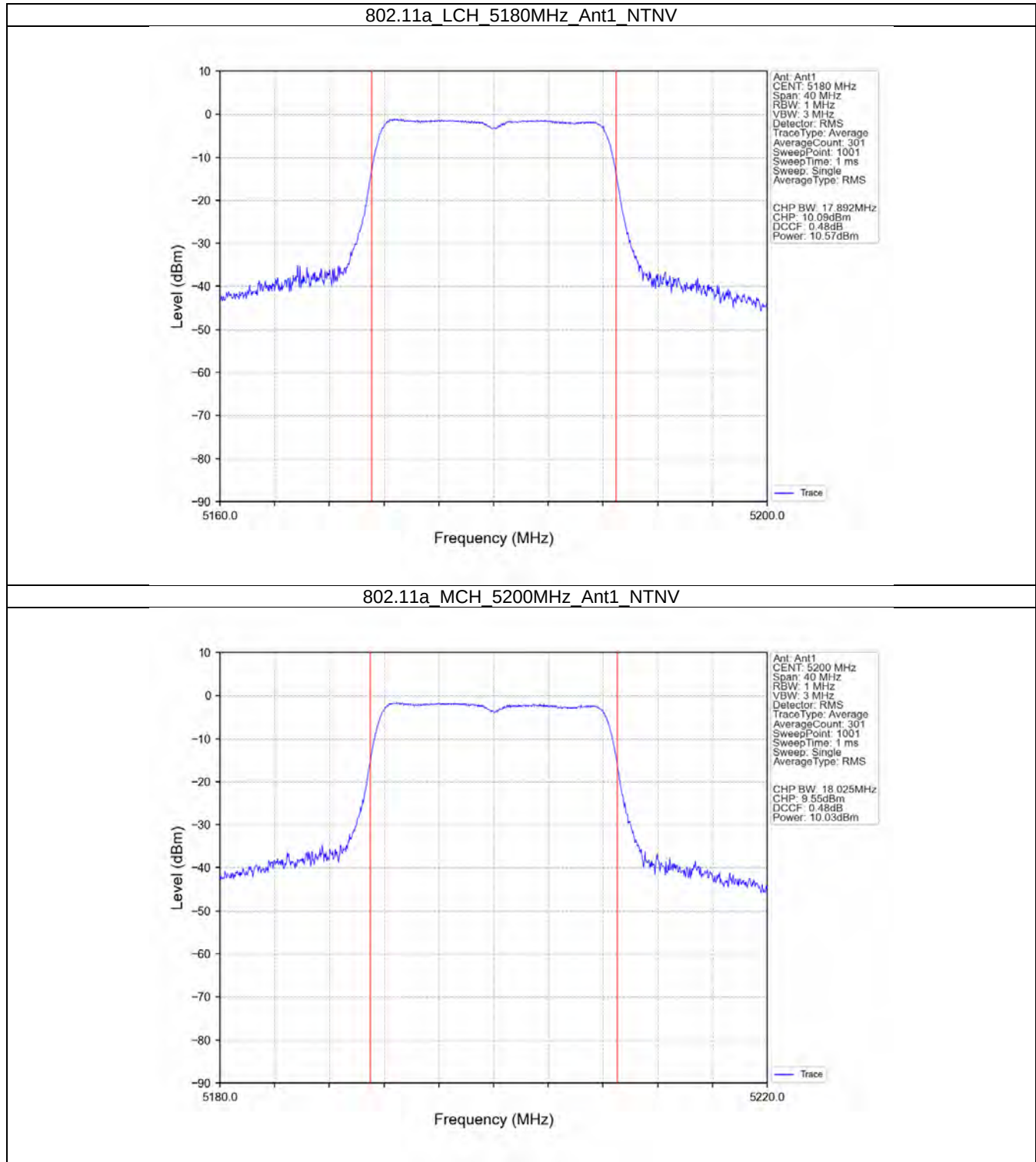
##### 3.1.1 Power

| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |         | Verdict |
|------------------|---------|-----------------|----------------------------------------------|---------|---------|
|                  |         |                 | ANT1                                         | Limit   |         |
| 802.11a          | SISO    | 5180            | 10.57                                        | <=23.98 | Pass    |
|                  |         | 5200            | 10.03                                        | <=23.98 | Pass    |
|                  |         | 5240            | 10.05                                        | <=23.98 | Pass    |
|                  |         | 5745            | 9.86                                         | <=30    | Pass    |
|                  |         | 5785            | 9.55                                         | <=30    | Pass    |
|                  |         | 5825            | 7.74                                         | <=30    | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 10.29                                        | <=23.98 | Pass    |
|                  |         | 5200            | 10.00                                        | <=23.98 | Pass    |
|                  |         | 5240            | 10.22                                        | <=23.98 | Pass    |
|                  |         | 5745            | 9.88                                         | <=30    | Pass    |
|                  |         | 5785            | 9.62                                         | <=30    | Pass    |
|                  |         | 5825            | 7.85                                         | <=30    | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 10.70                                        | <=23.98 | Pass    |
|                  |         | 5230            | 10.58                                        | <=23.98 | Pass    |
|                  |         | 5755            | 10.31                                        | <=30    | Pass    |
|                  |         | 5795            | 9.98                                         | <=30    | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 10.13                                        | <=23.98 | Pass    |
|                  |         | 5200            | 10.22                                        | <=23.98 | Pass    |
|                  |         | 5240            | 10.25                                        | <=23.98 | Pass    |
|                  |         | 5745            | 9.95                                         | <=30    | Pass    |
|                  |         | 5785            | 9.63                                         | <=30    | Pass    |
|                  |         | 5825            | 7.72                                         | <=30    | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 10.89                                        | <=23.98 | Pass    |
|                  |         | 5230            | 10.57                                        | <=23.98 | Pass    |
|                  |         | 5755            | 10.33                                        | <=30    | Pass    |
|                  |         | 5795            | 9.73                                         | <=30    | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 10.20                                        | <=23.98 | Pass    |
|                  |         | 5775            | 10.09                                        | <=30    | Pass    |

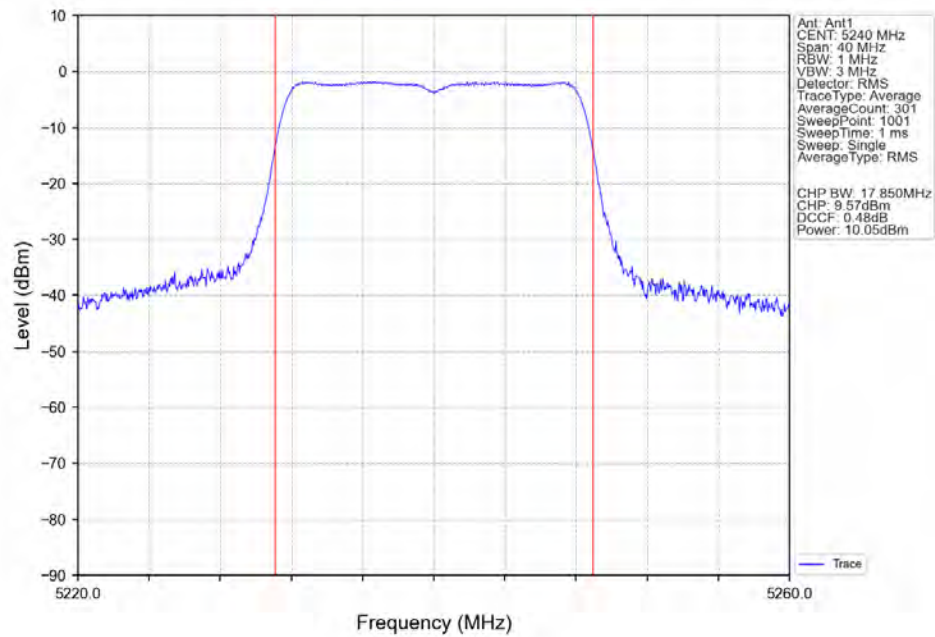
Note1: Antenna Gain: Ant1: 0.00dBi;

## 3.2 Test Graph

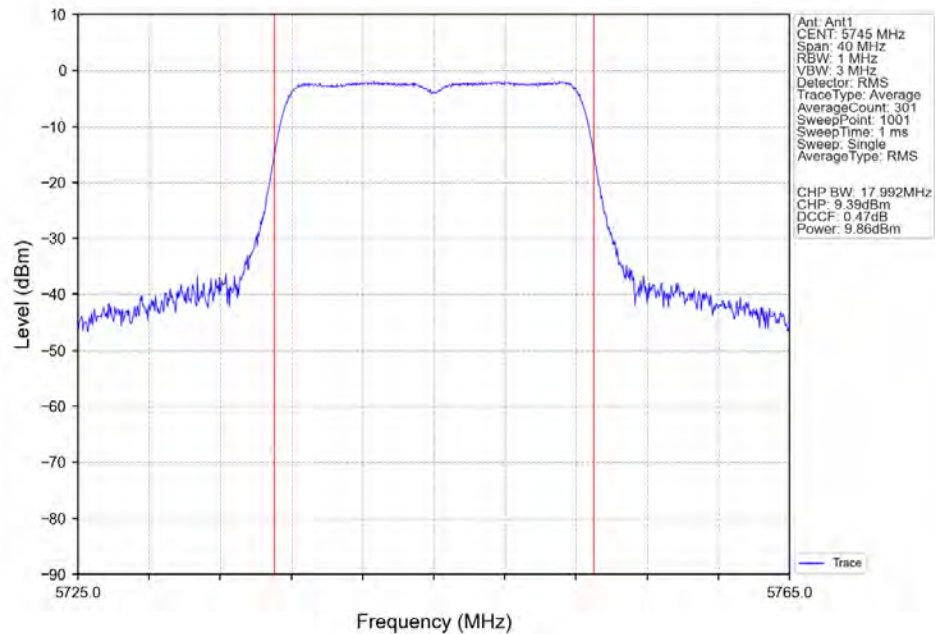
### 3.2.1 Power



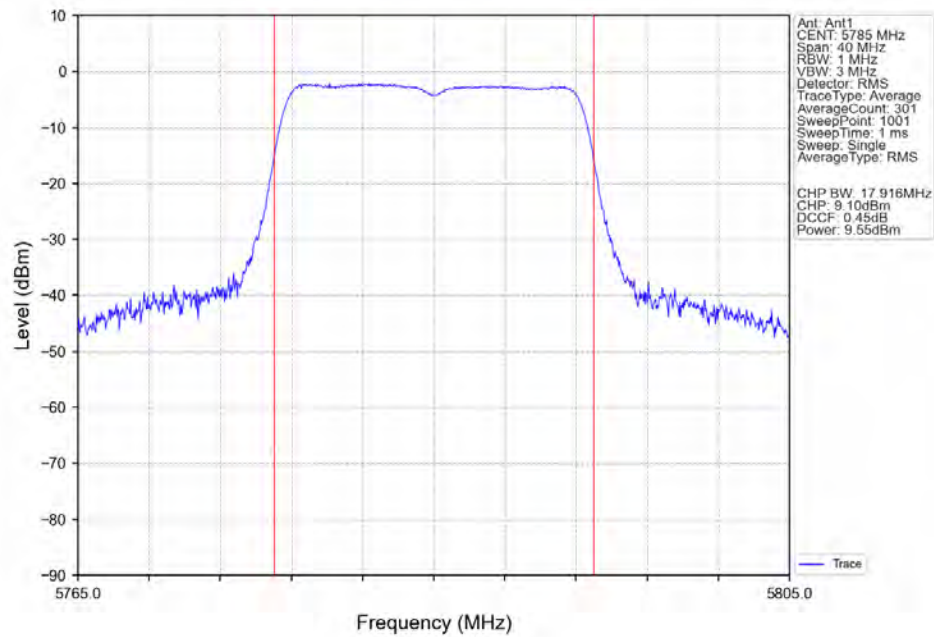
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



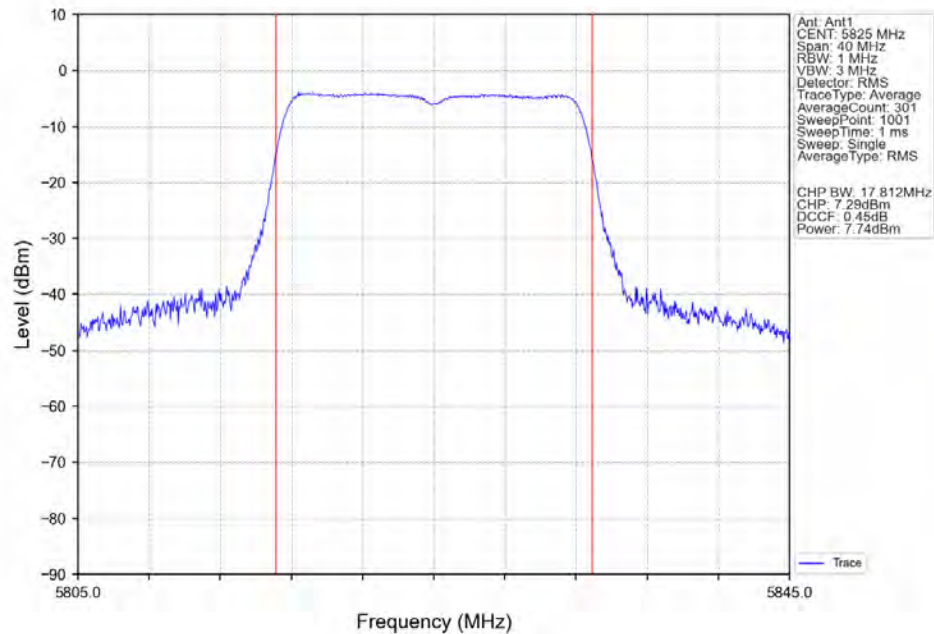
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



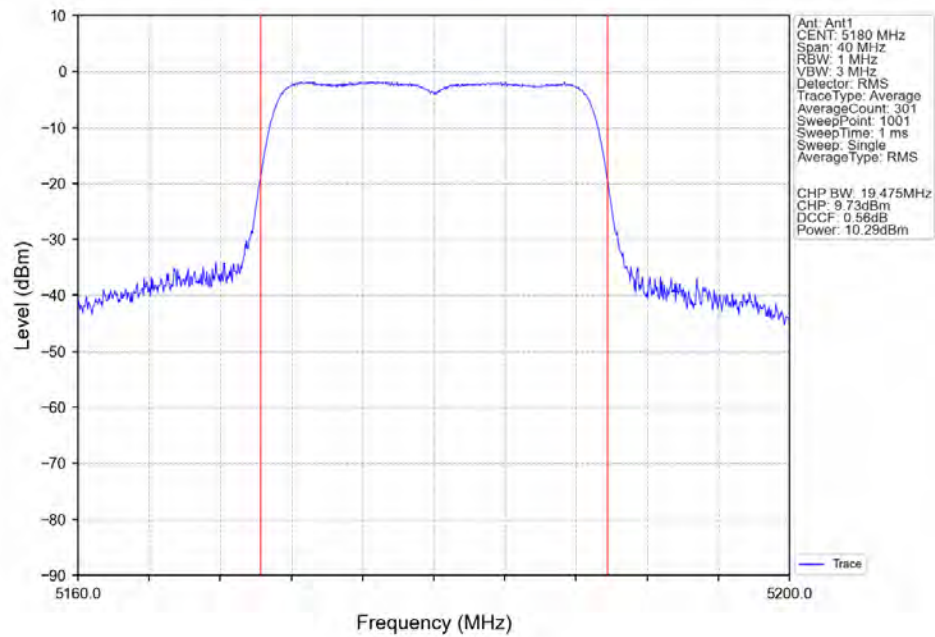
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



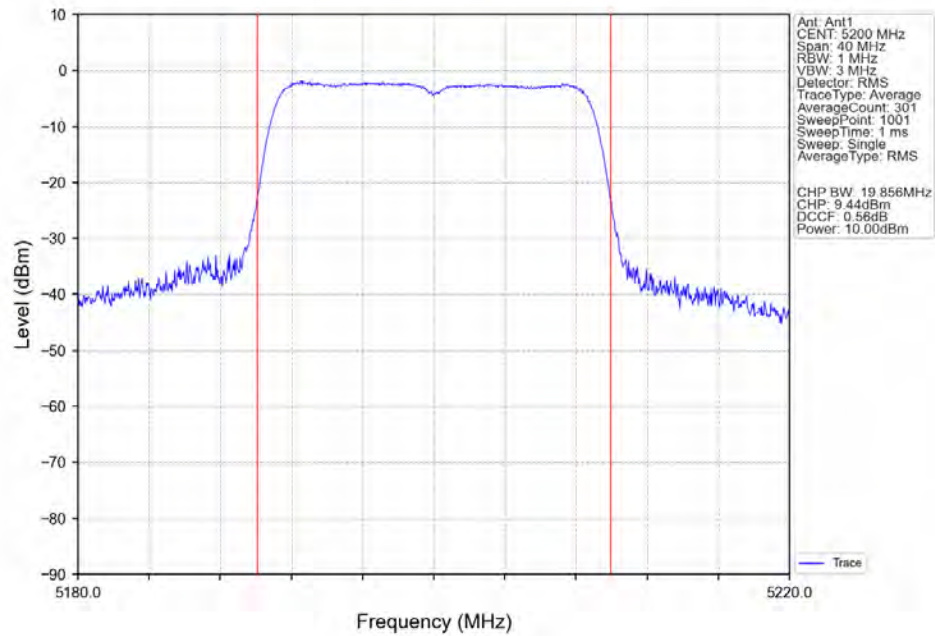
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



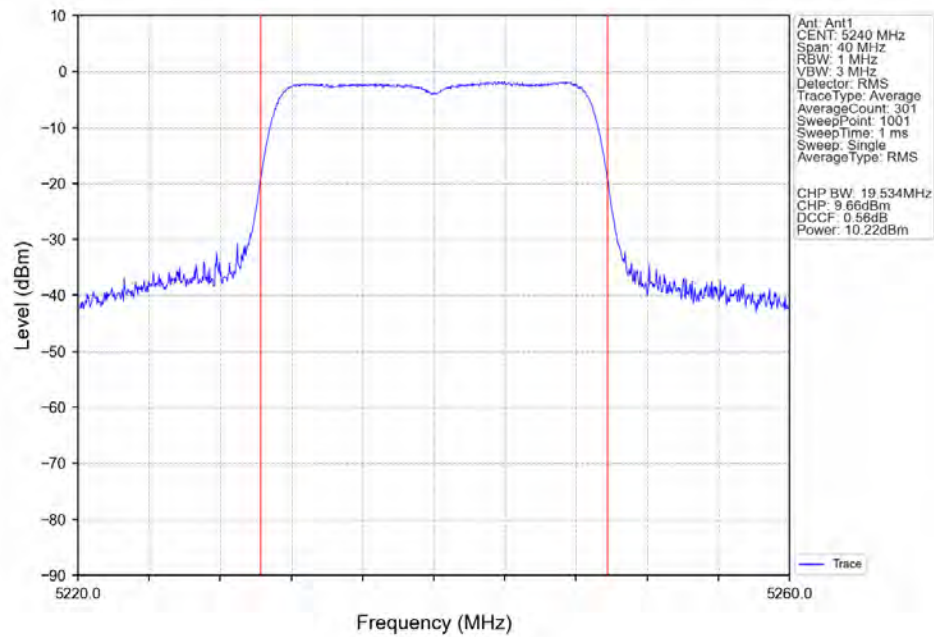
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



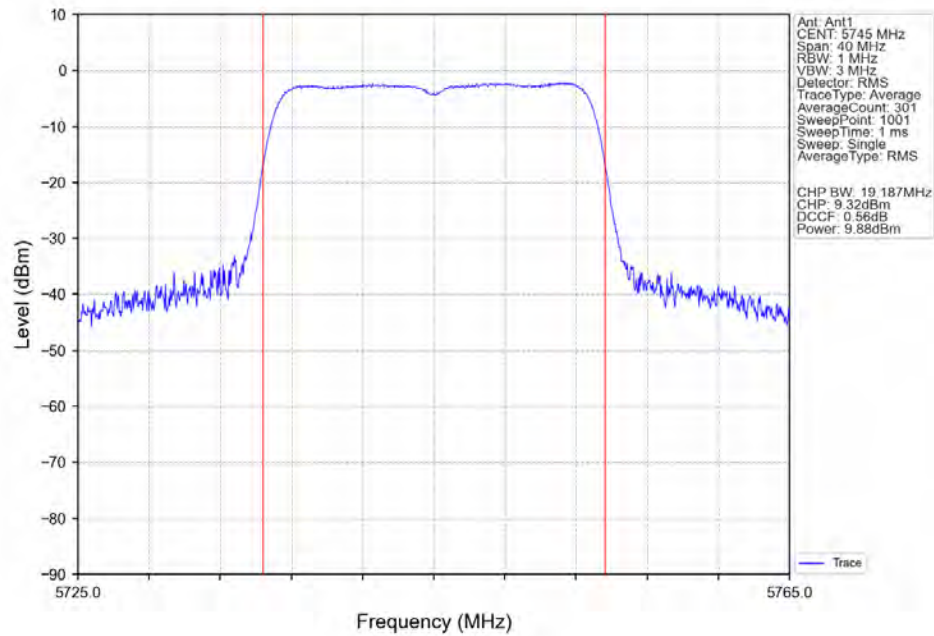
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



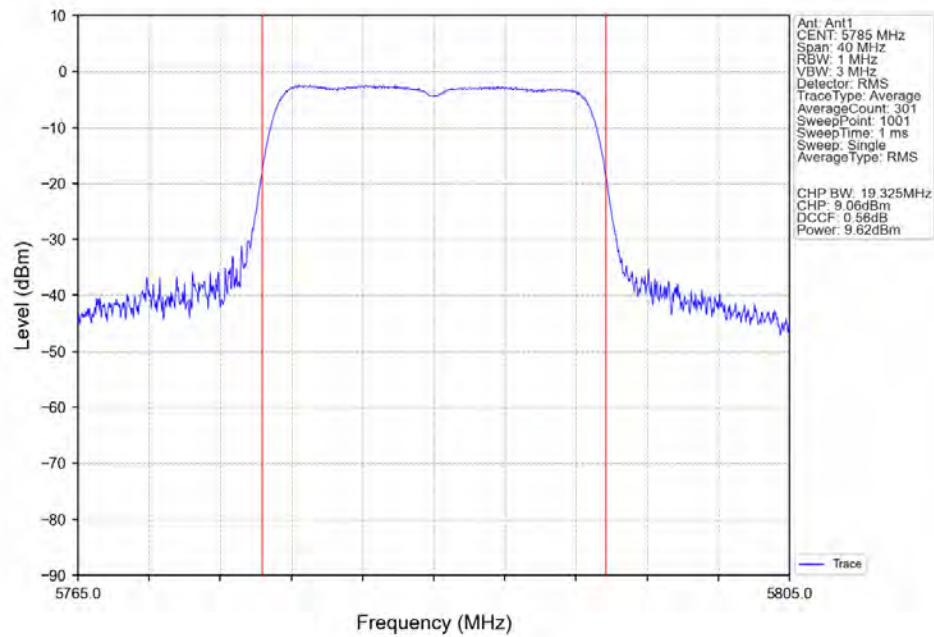
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



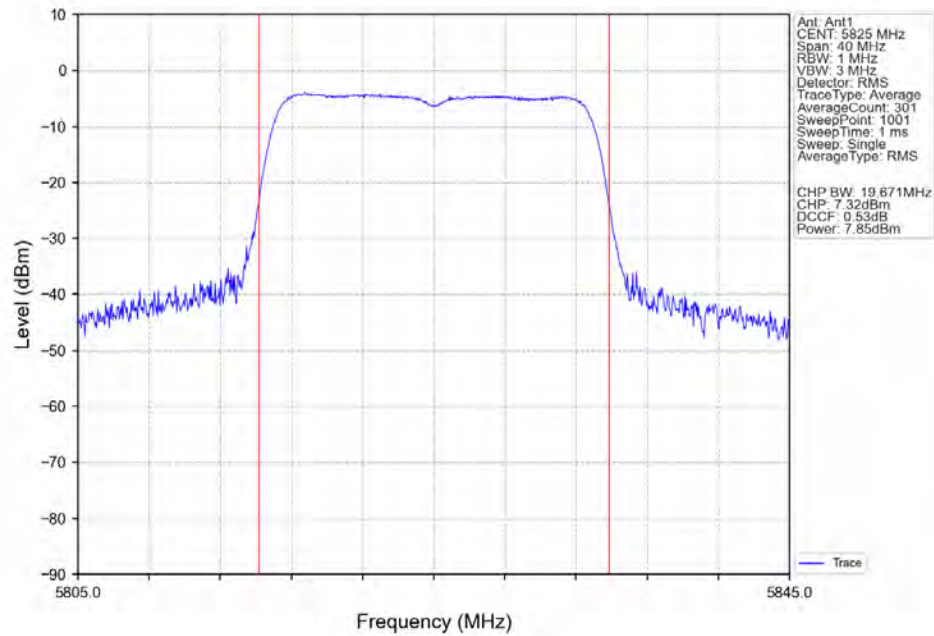
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



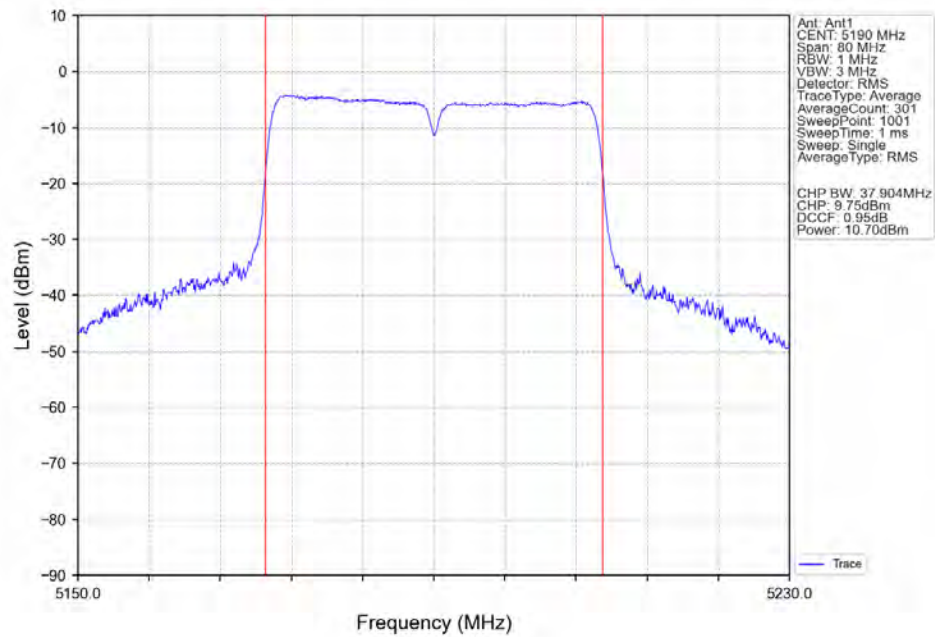
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



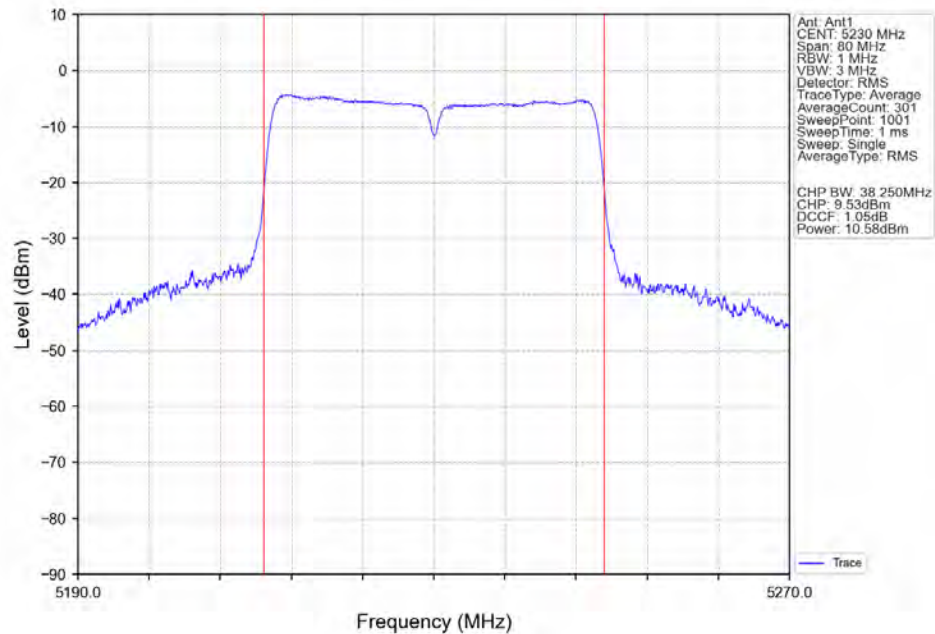
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



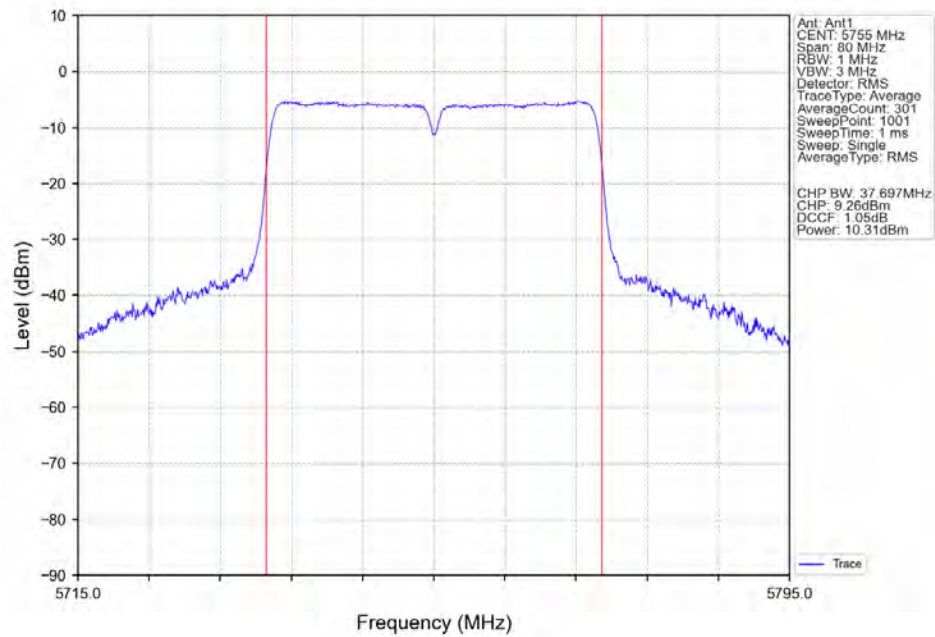
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



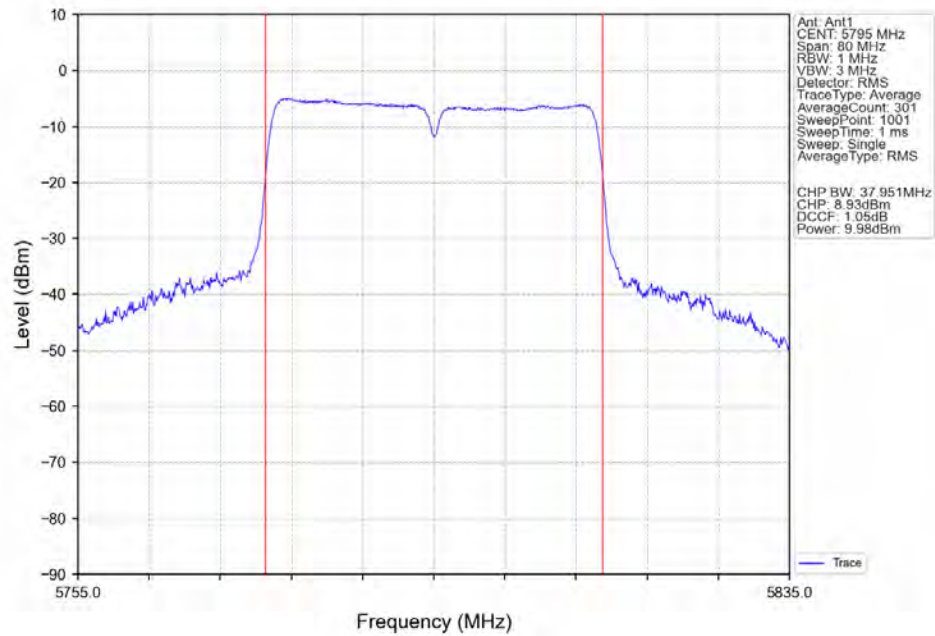
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



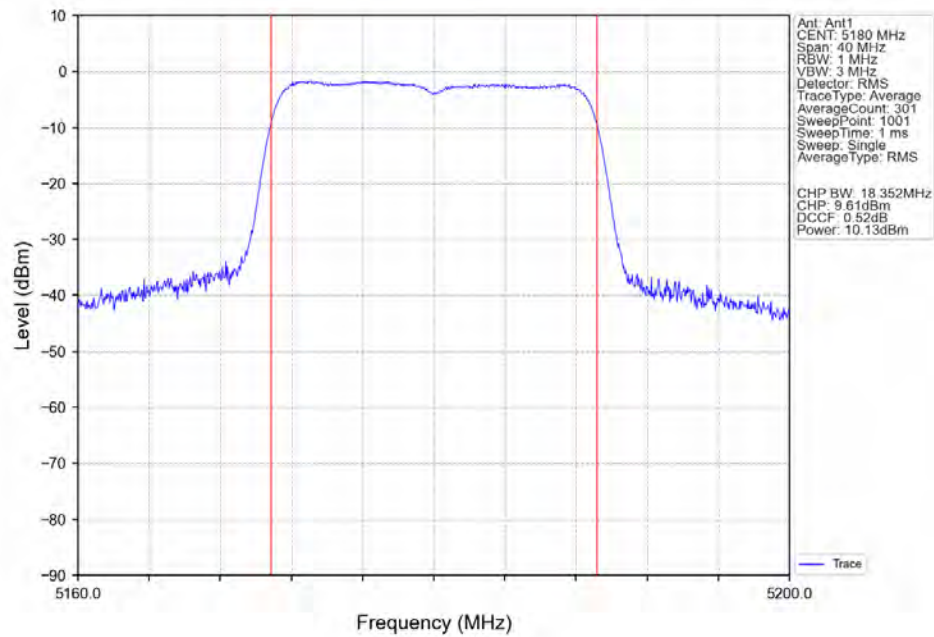
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



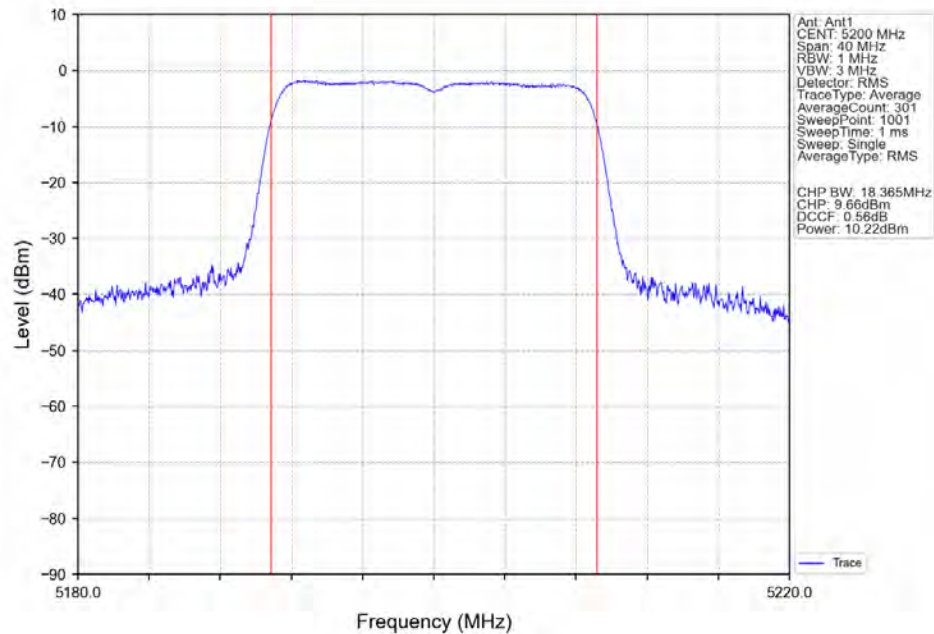
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



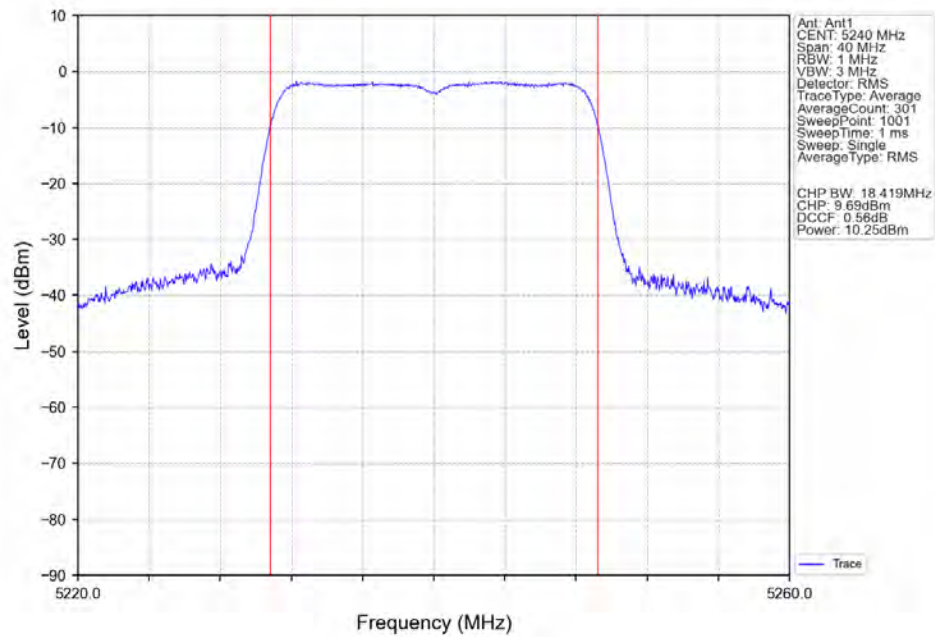
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



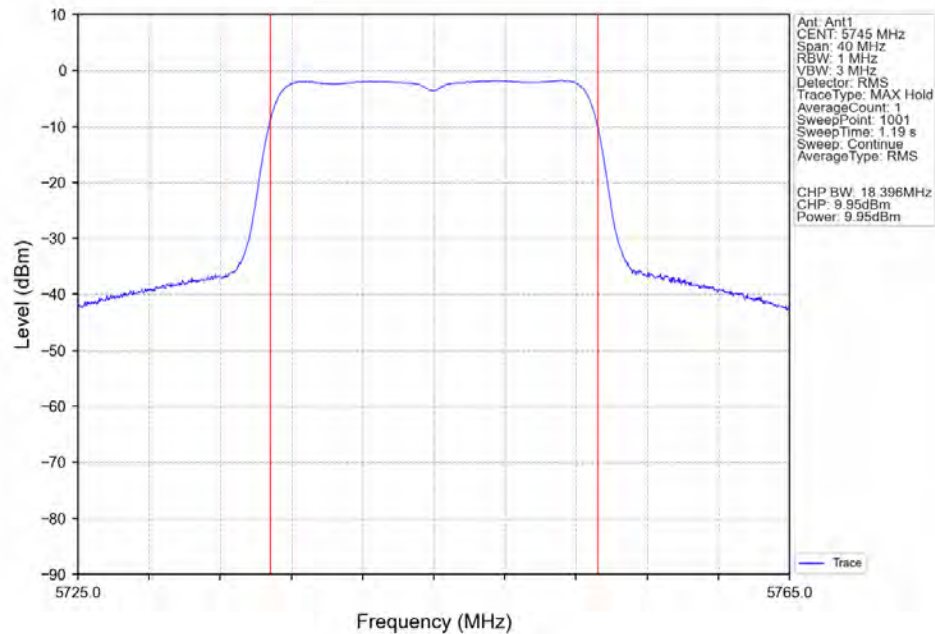
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



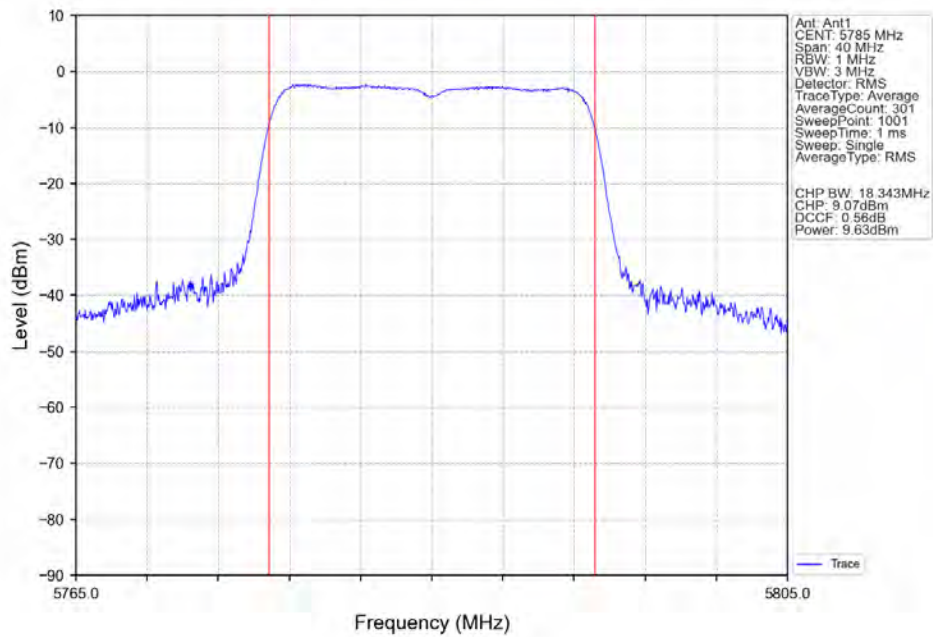
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



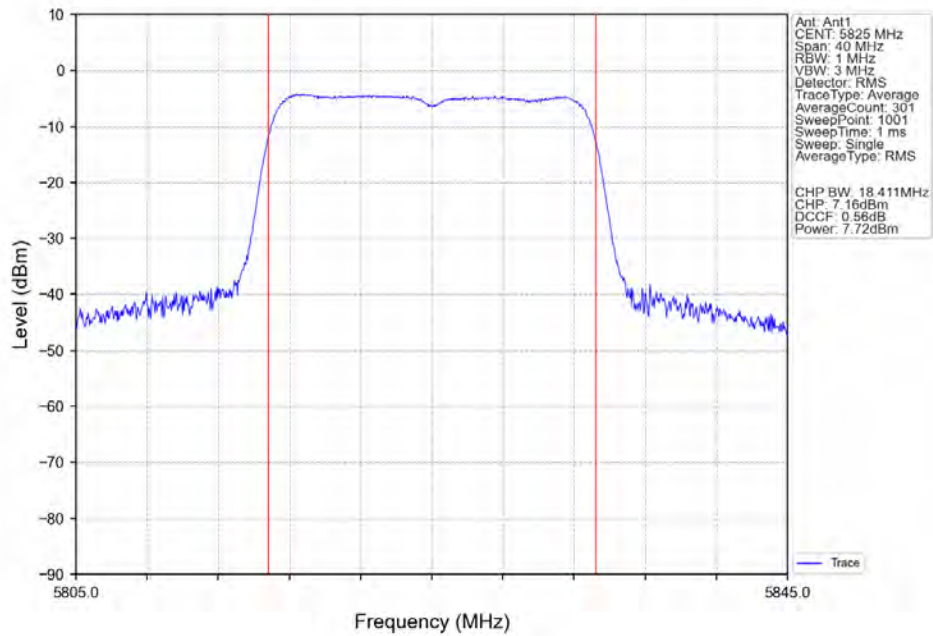
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



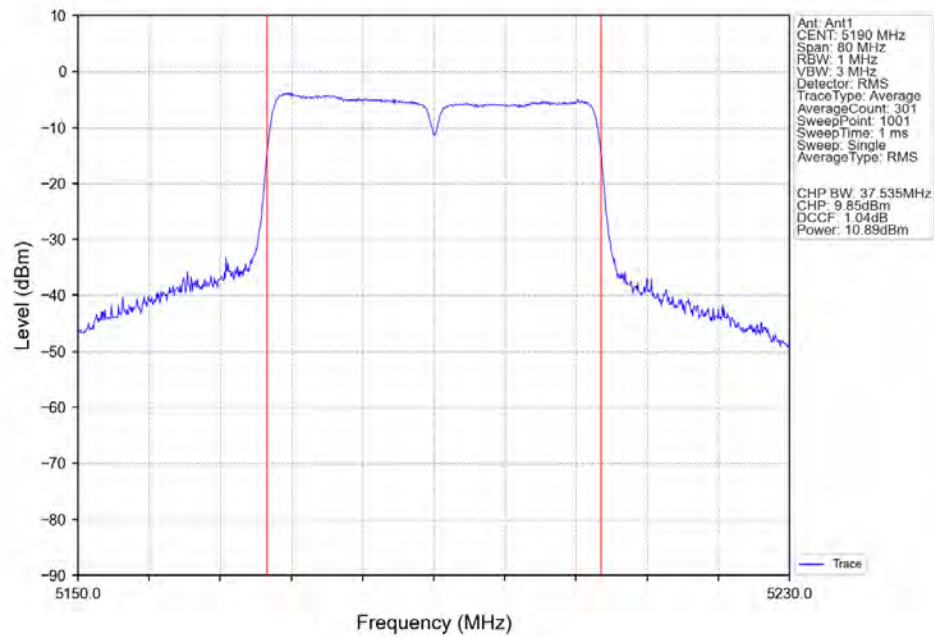
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



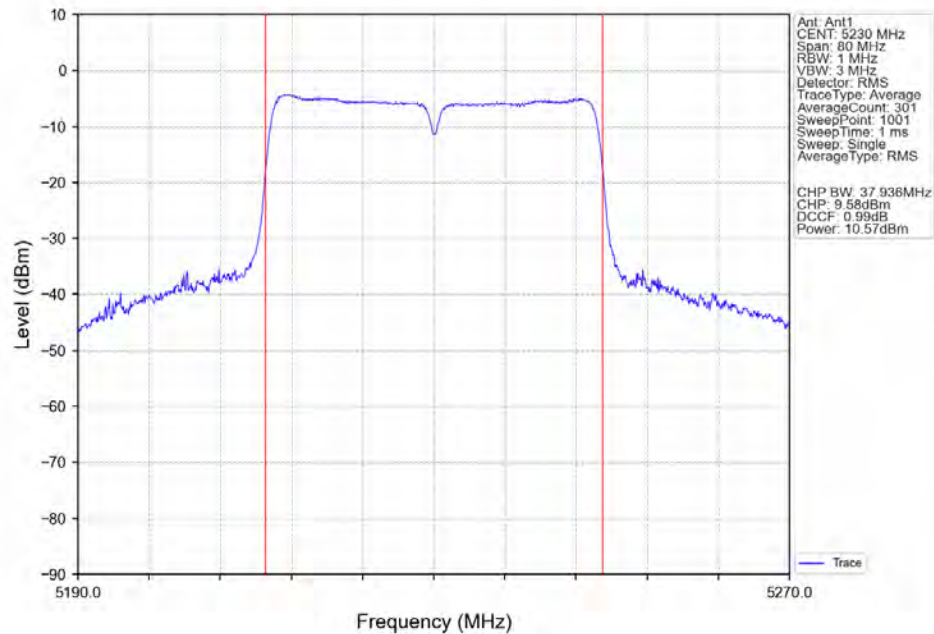
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



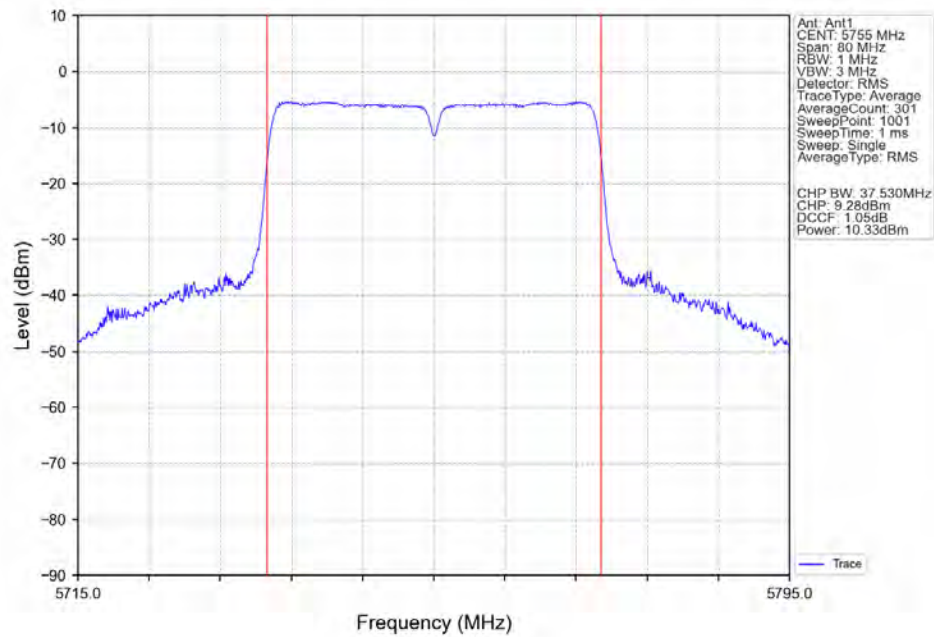
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



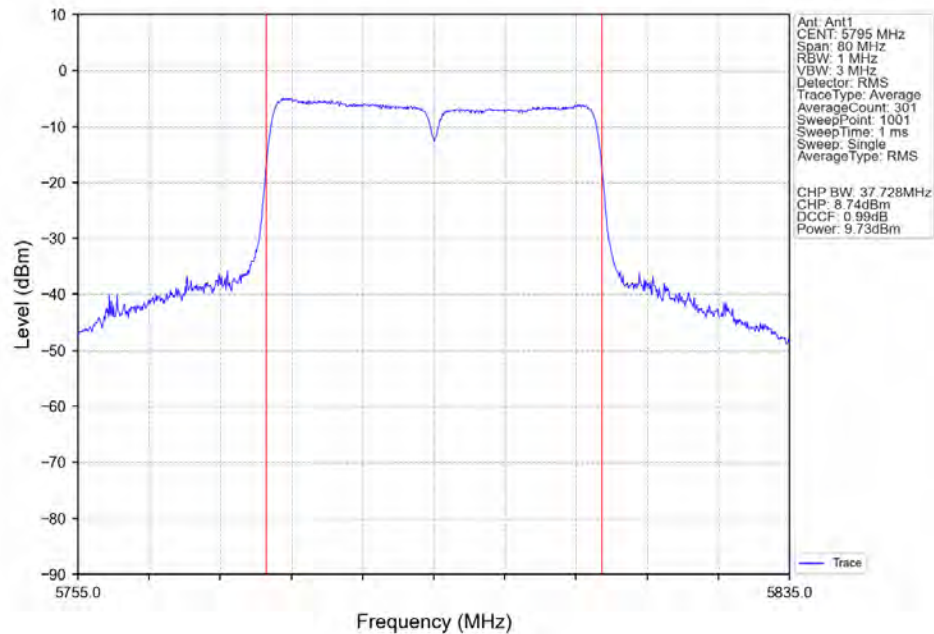
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



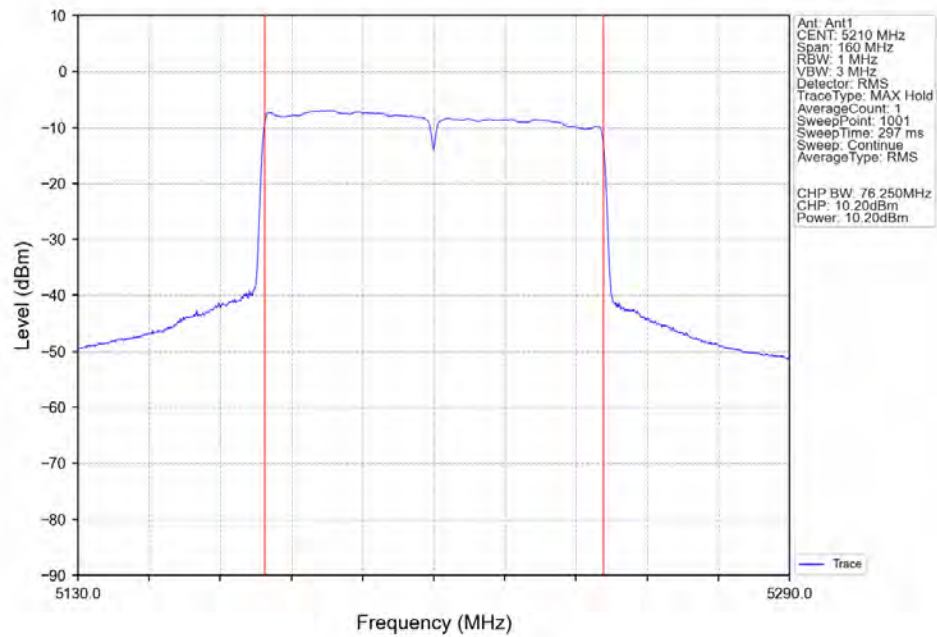
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



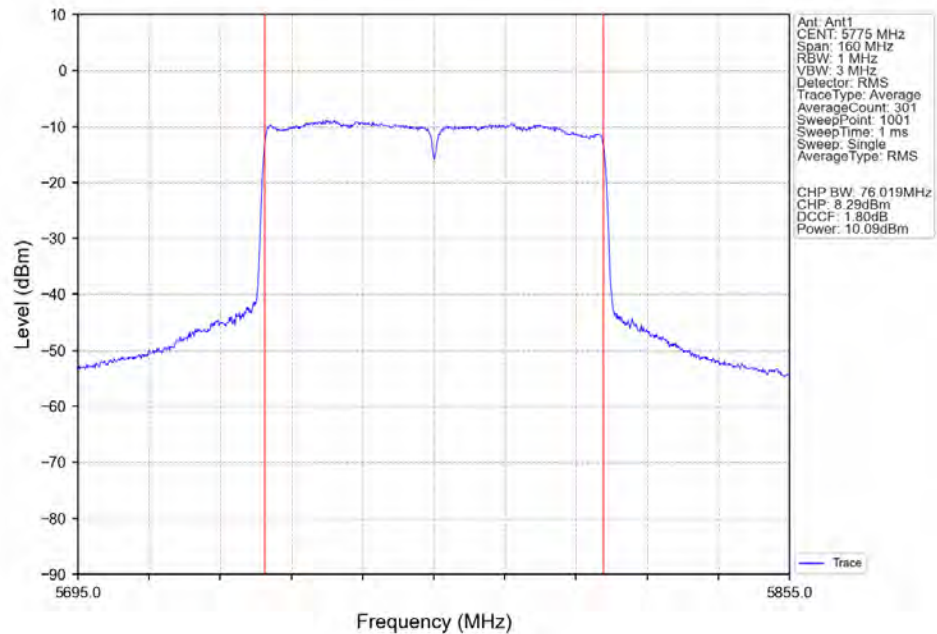
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



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



## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |       | Verdict |
|------------------|---------|-----------------|-----------------------|-------|---------|
|                  |         |                 | ANT1                  | Limit |         |
| 802.11a          | SISO    | 5180            | -0.87                 | <=11  | Pass    |
|                  |         | 5200            | -1.10                 | <=11  | Pass    |
|                  |         | 5240            | -1.13                 | <=11  | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | -1.06                 | <=11  | Pass    |
|                  |         | 5200            | -1.20                 | <=11  | Pass    |
|                  |         | 5240            | -1.38                 | <=11  | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | -2.99                 | <=11  | Pass    |
|                  |         | 5230            | -3.34                 | <=11  | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | -1.20                 | <=11  | Pass    |
|                  |         | 5200            | -1.11                 | <=11  | Pass    |
|                  |         | 5240            | -1.29                 | <=11  | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | -2.87                 | <=11  | Pass    |
|                  |         | 5230            | -3.38                 | <=11  | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | -6.90                 | <=11  | Pass    |

Note1: Antenna Gain: Ant1: 0.00dBi;

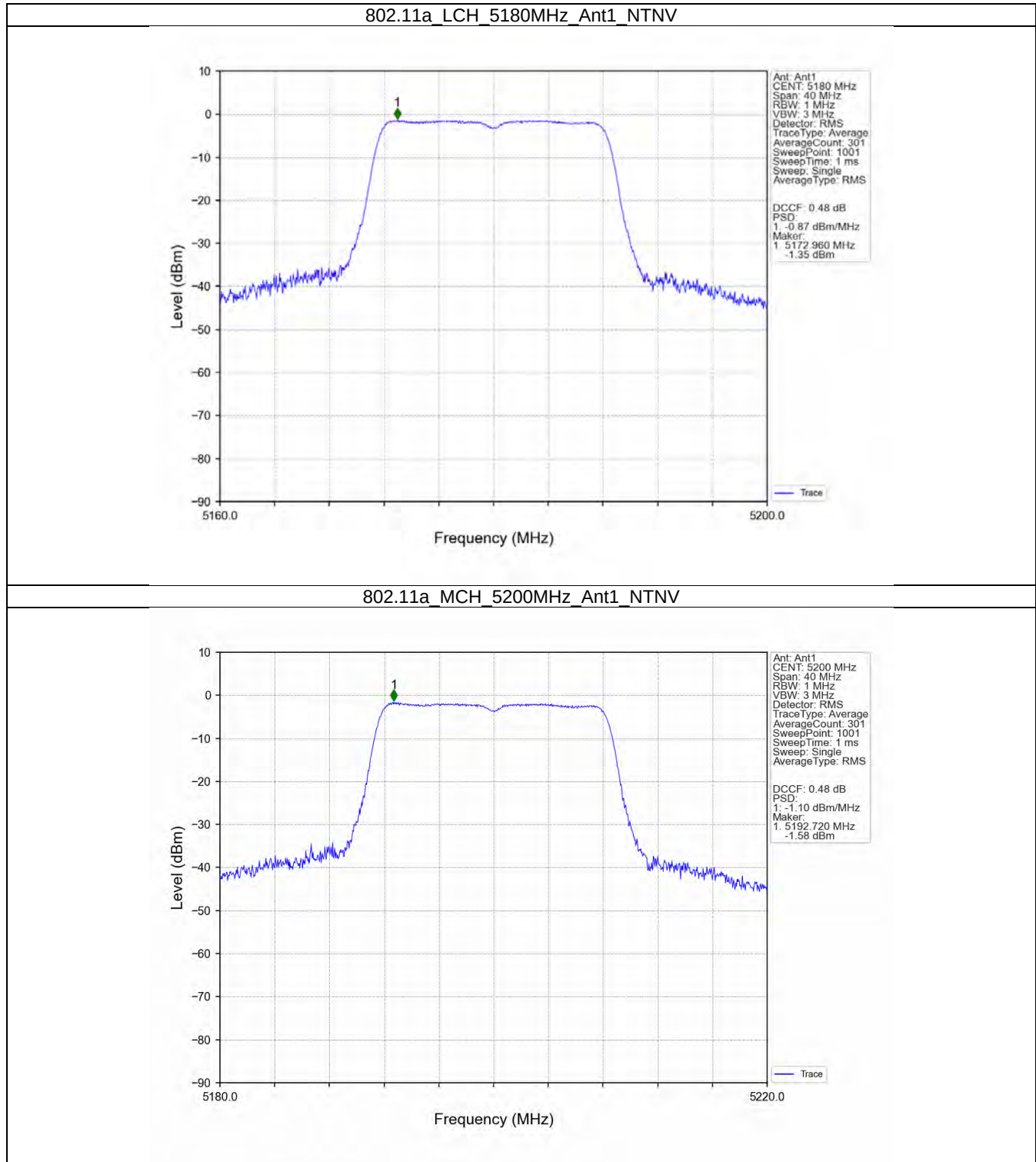
#### 4.1.2 PSD-Band3

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |       | Verdict |
|------------------|---------|-----------------|--------------------------|-------|---------|
|                  |         |                 | ANT1                     | Limit |         |
| 802.11a          | SISO    | 5745            | -4.31                    | <=30  | Pass    |
|                  |         | 5785            | -4.68                    | <=30  | Pass    |
|                  |         | 5825            | -6.14                    | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | -4.46                    | <=30  | Pass    |
|                  |         | 5785            | -4.74                    | <=30  | Pass    |
|                  |         | 5825            | -6.35                    | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | -7.21                    | <=30  | Pass    |
|                  |         | 5795            | -6.71                    | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | -4.60                    | <=30  | Pass    |
|                  |         | 5785            | -4.74                    | <=30  | Pass    |
|                  |         | 5825            | -6.52                    | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | -7.05                    | <=30  | Pass    |
|                  |         | 5795            | -6.92                    | <=30  | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | -9.92                    | <=30  | Pass    |

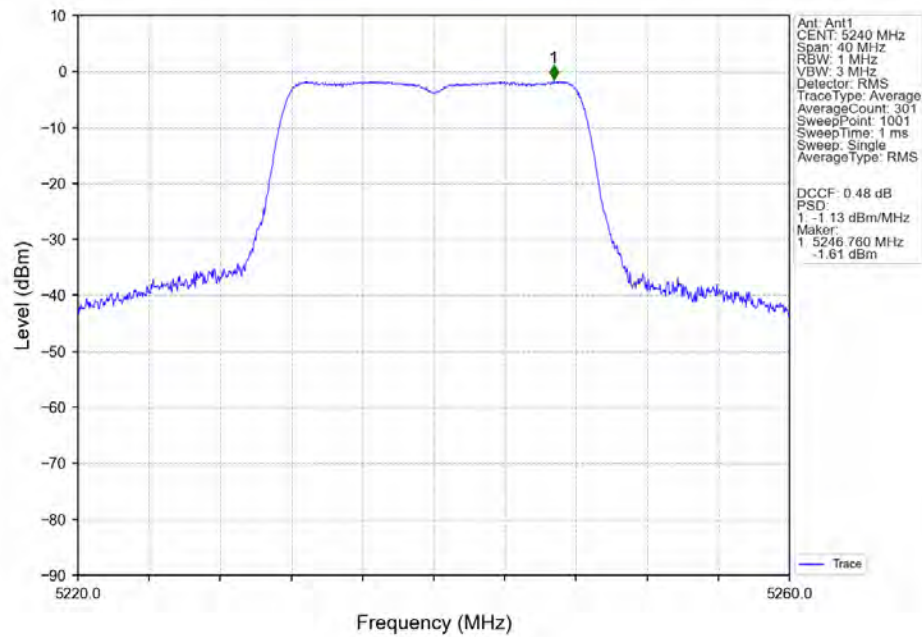
Note1: Antenna Gain: Ant1: 0.00dBi;

## 4.2 Test Graph

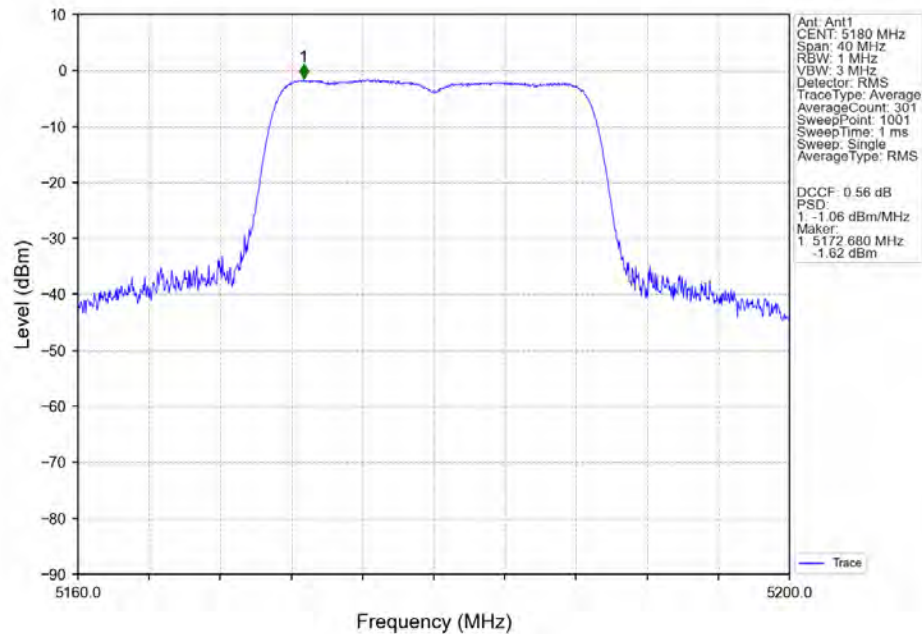
### 4.2.1 PSD



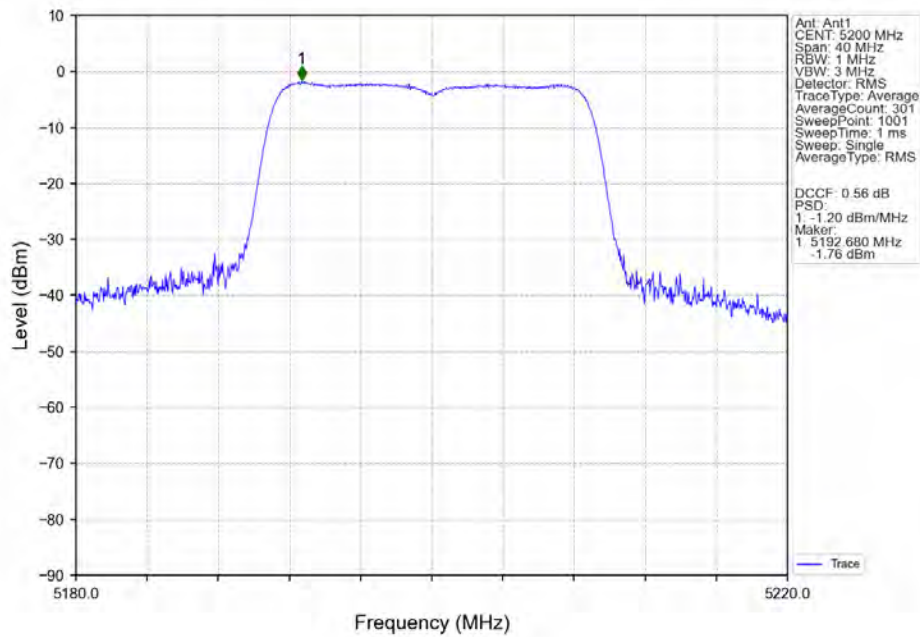
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



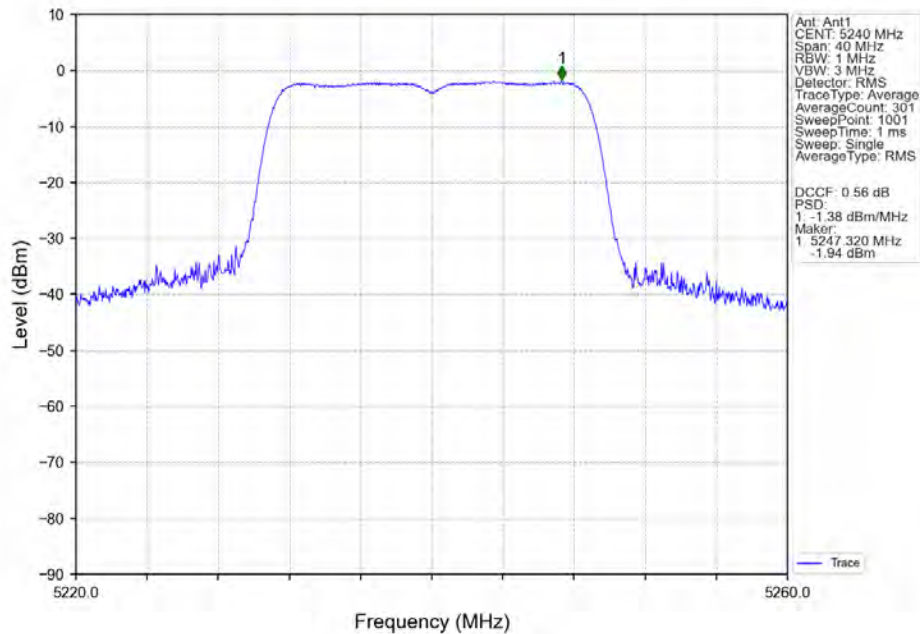
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



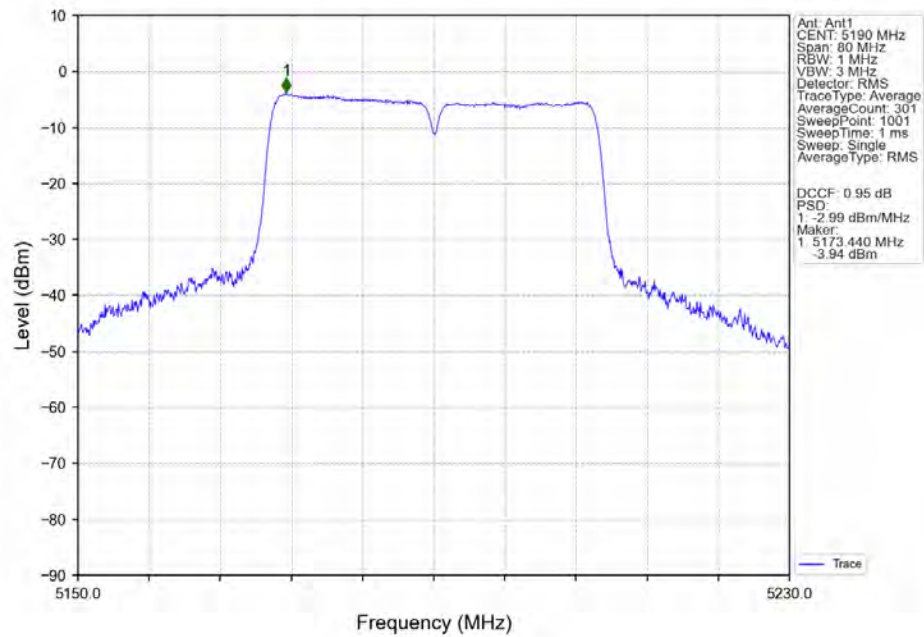
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



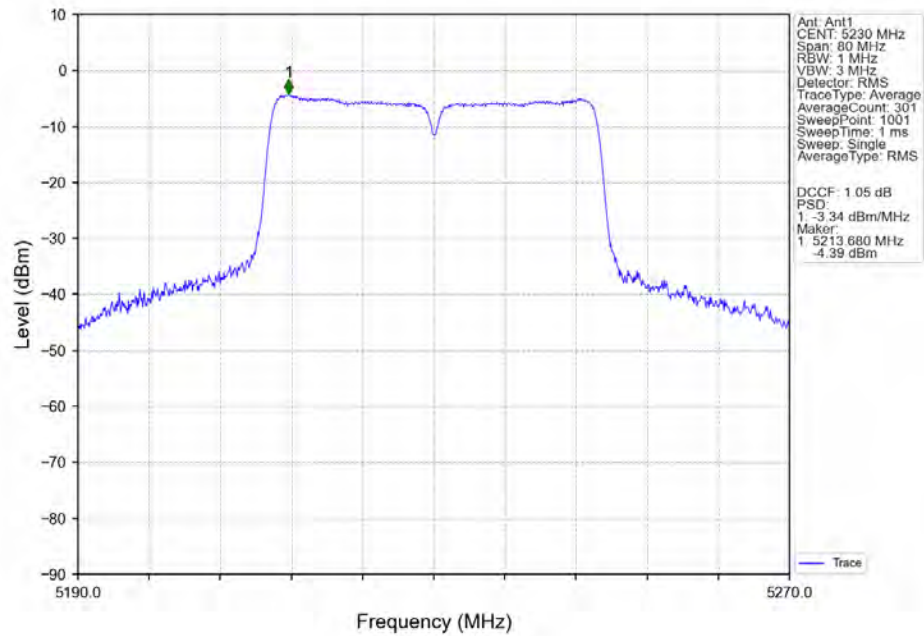
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



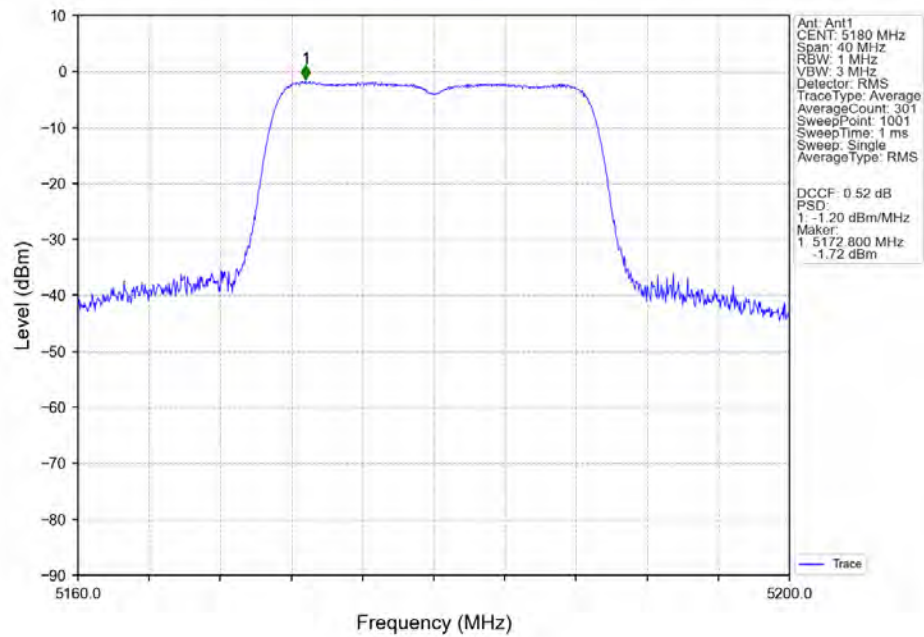
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



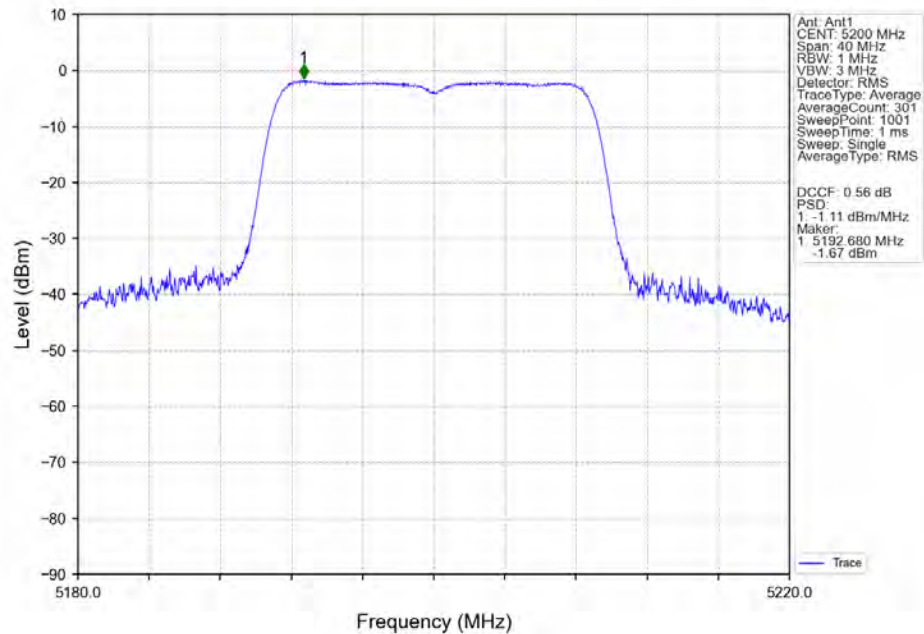
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



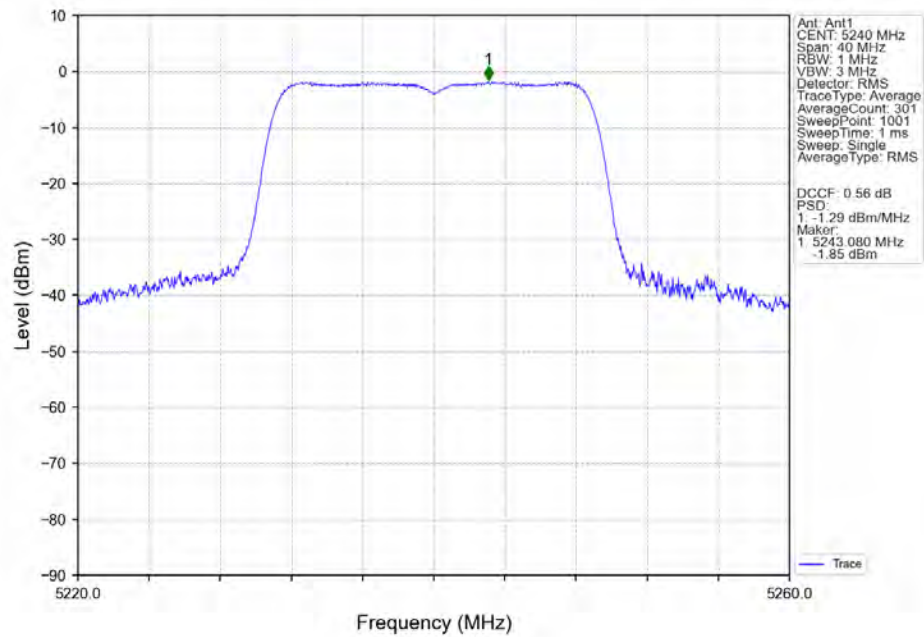
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



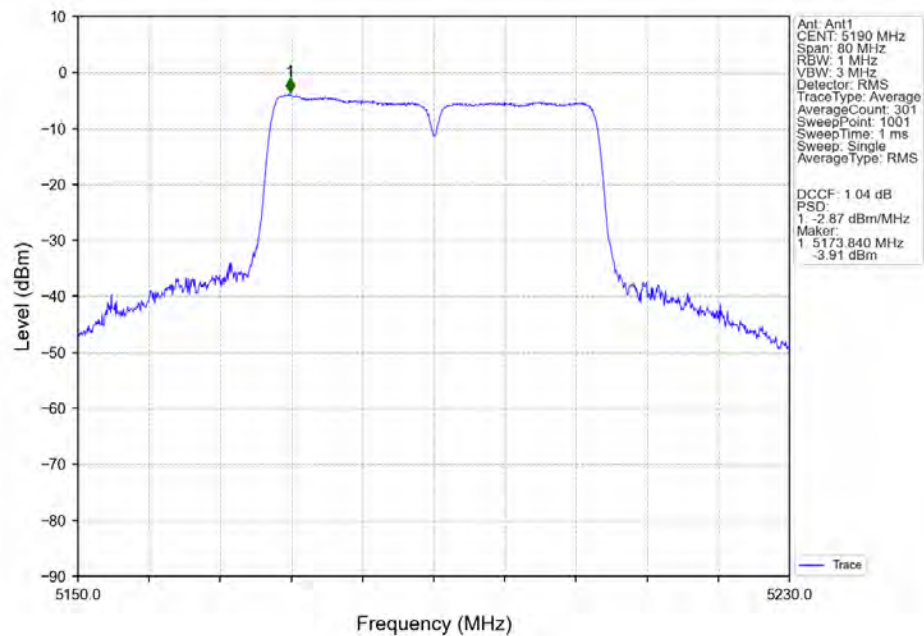
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



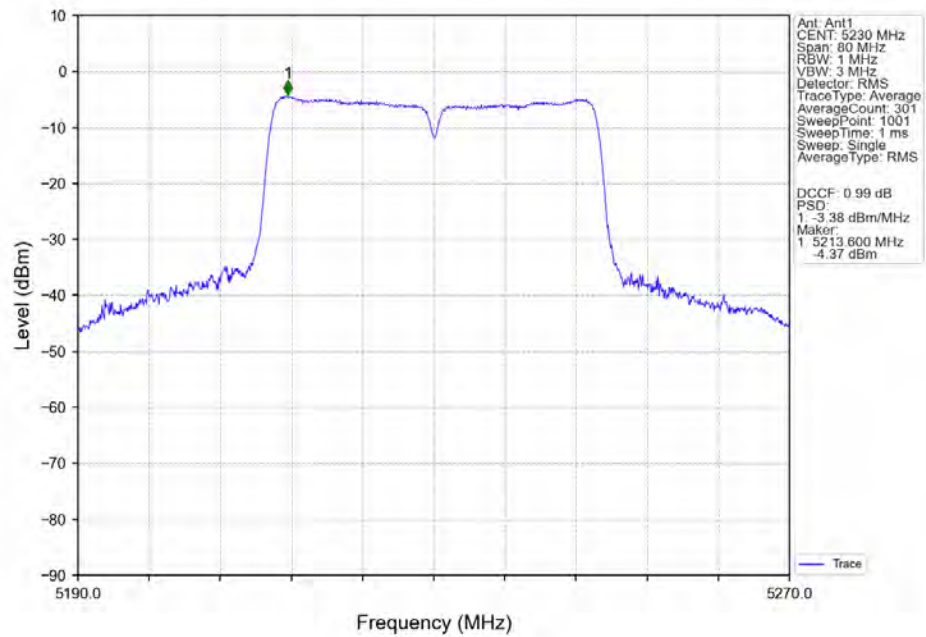
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



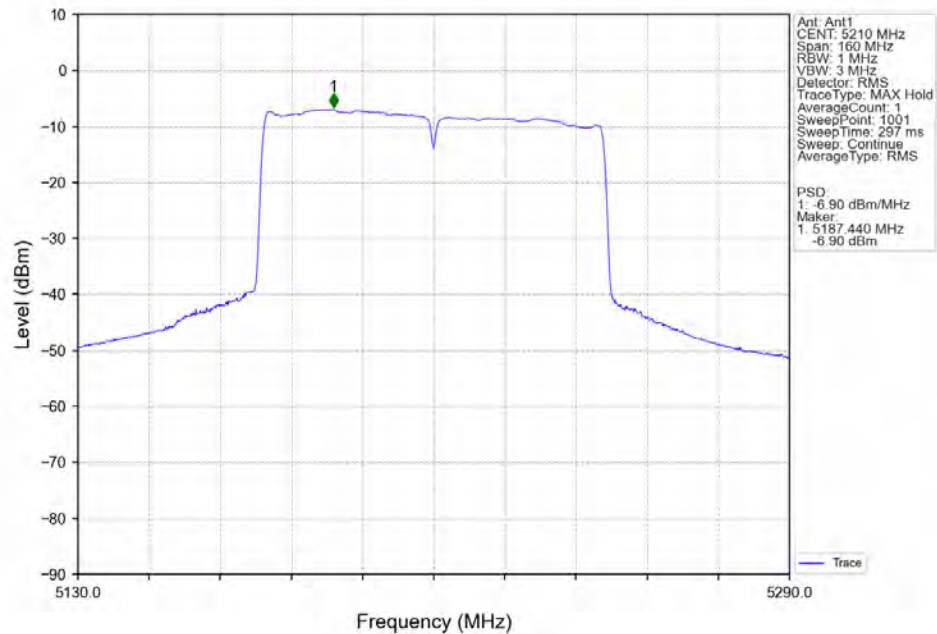
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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

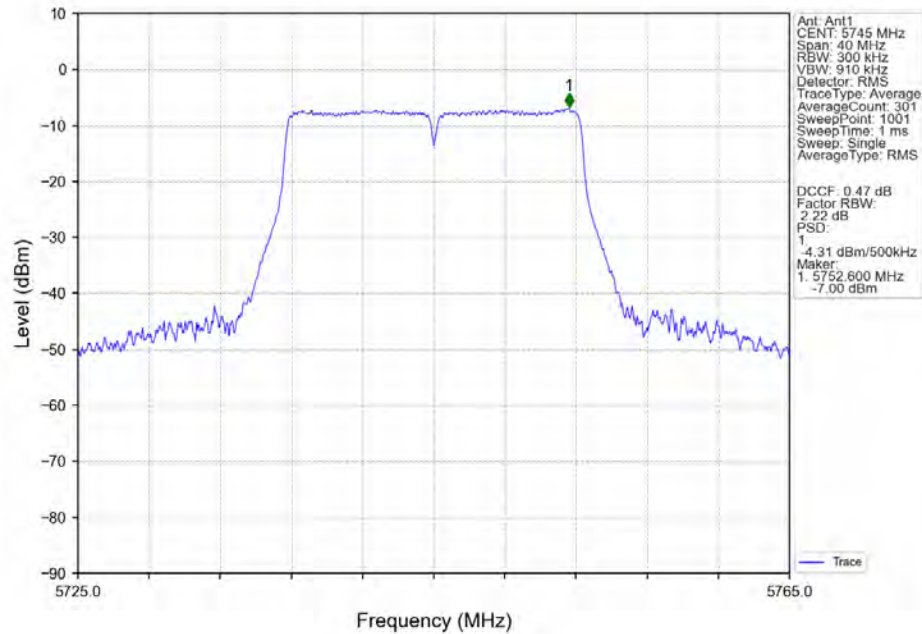


802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

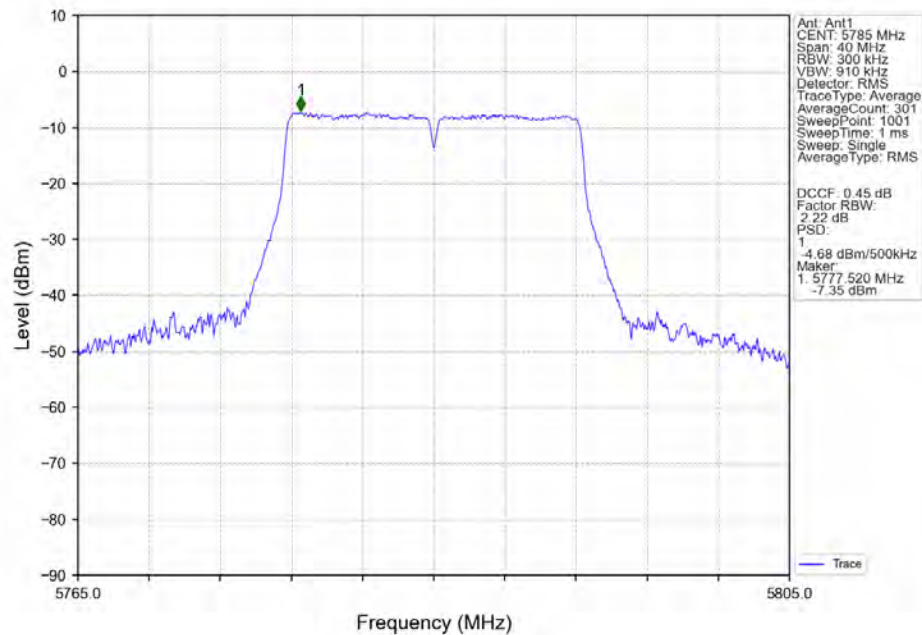


## 4.2.2 PSD-Band3

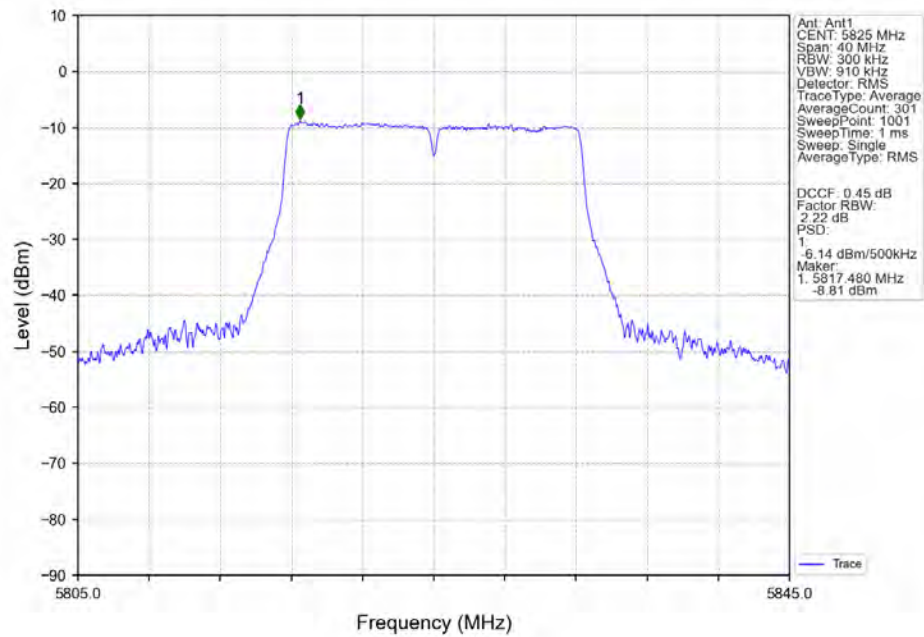
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



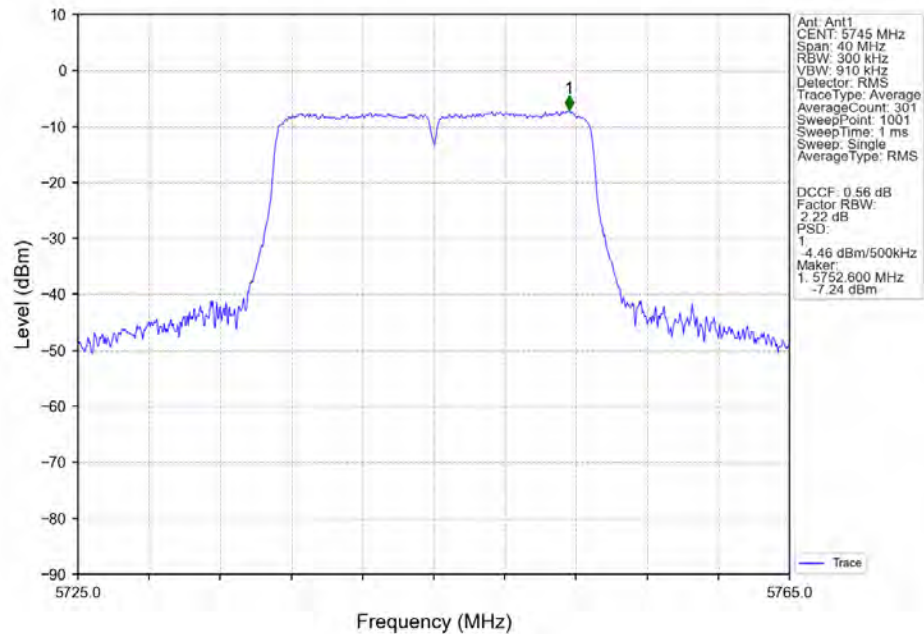
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



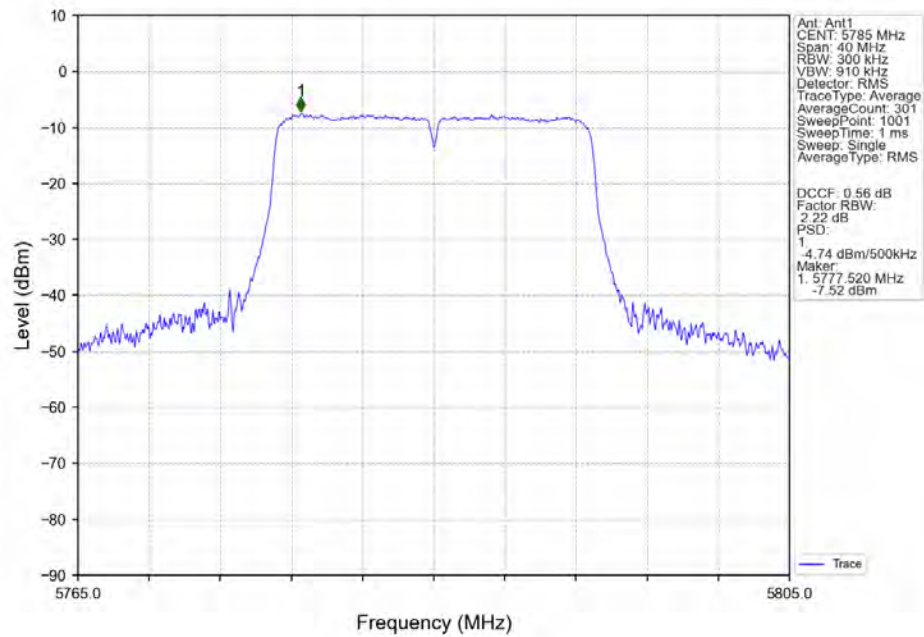
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



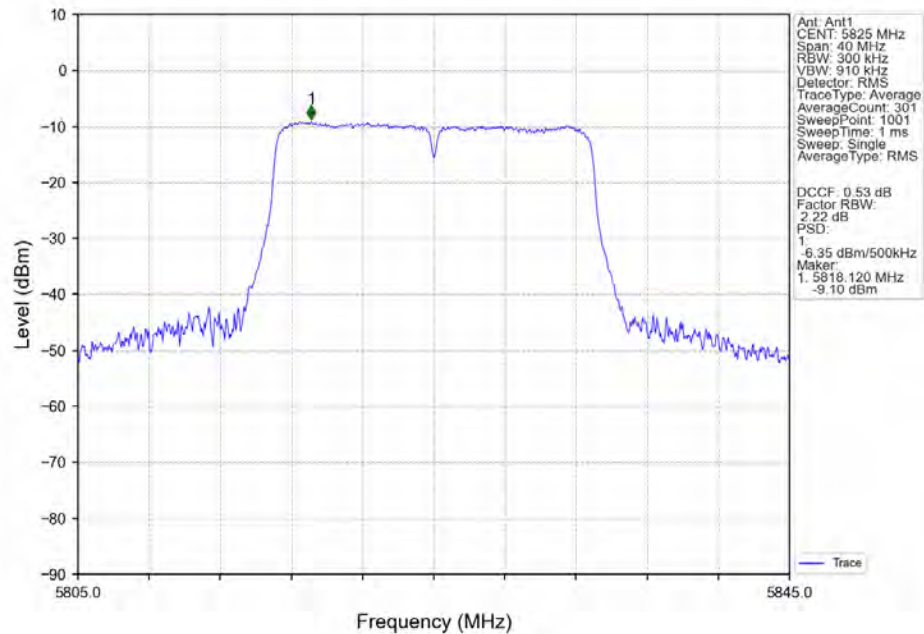
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



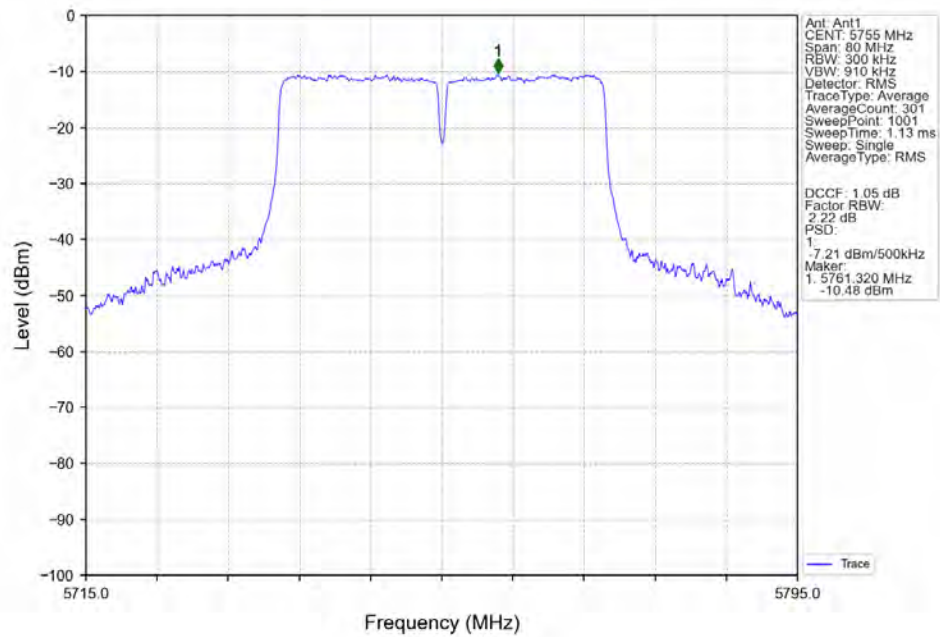
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



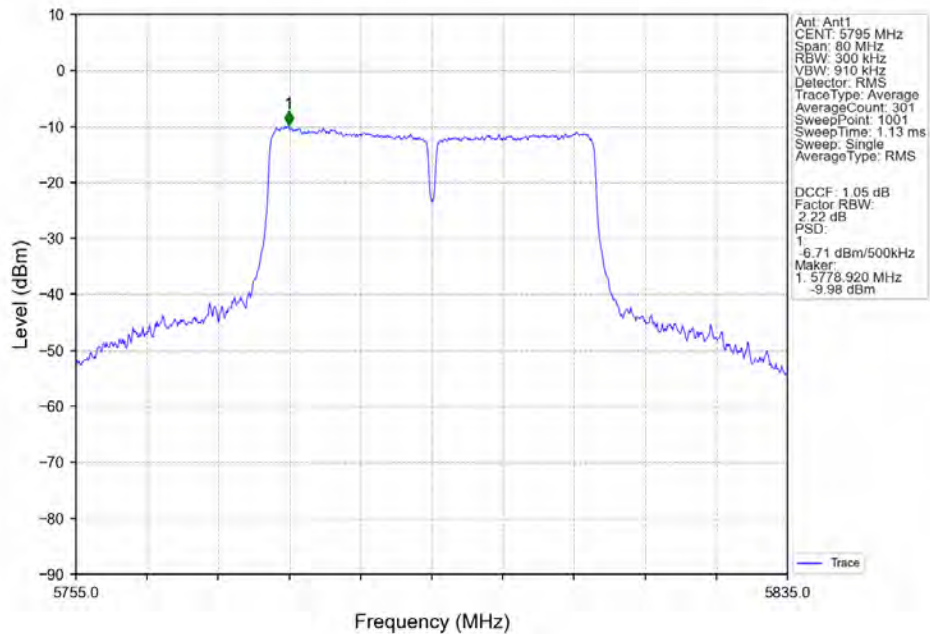
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



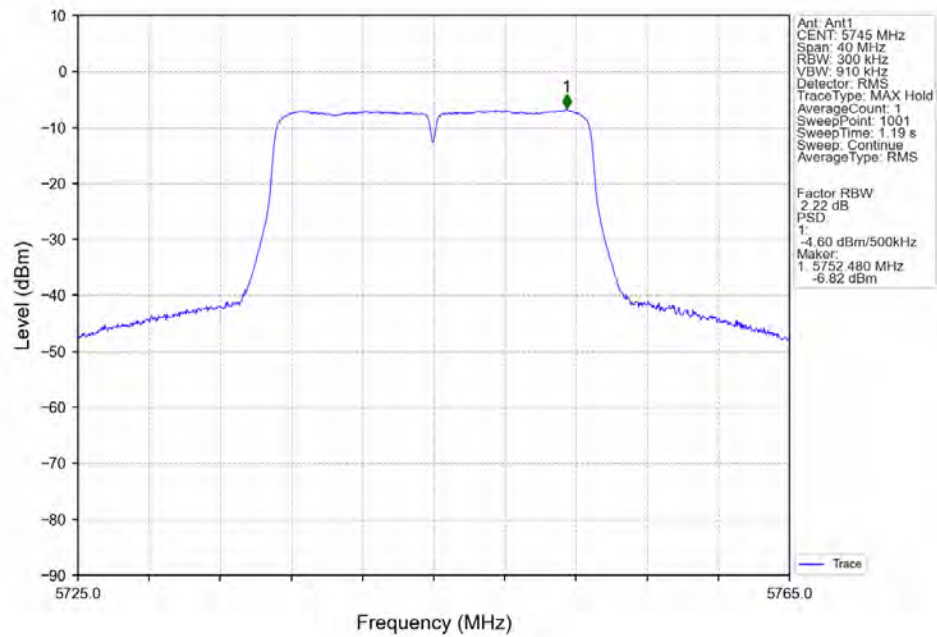
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



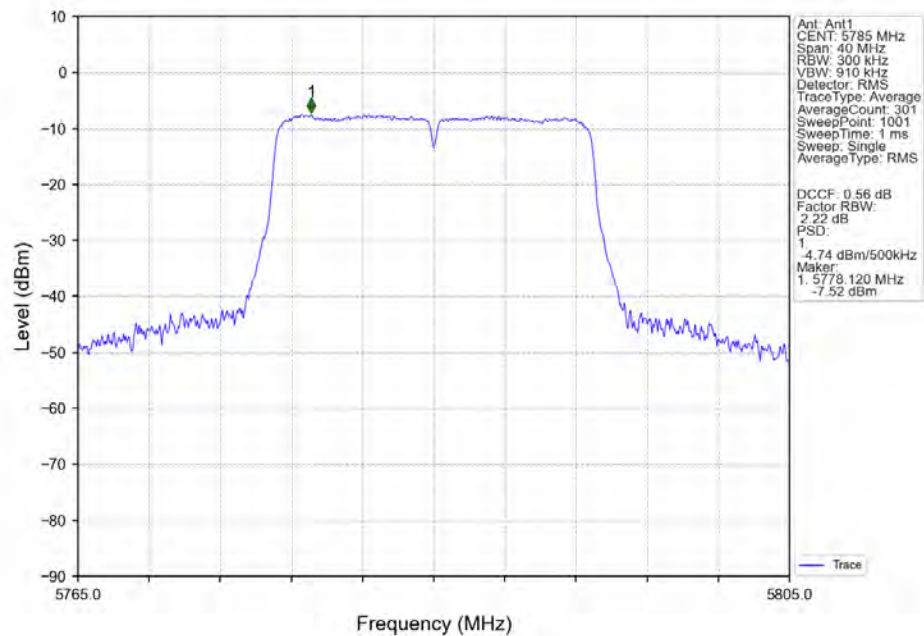
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



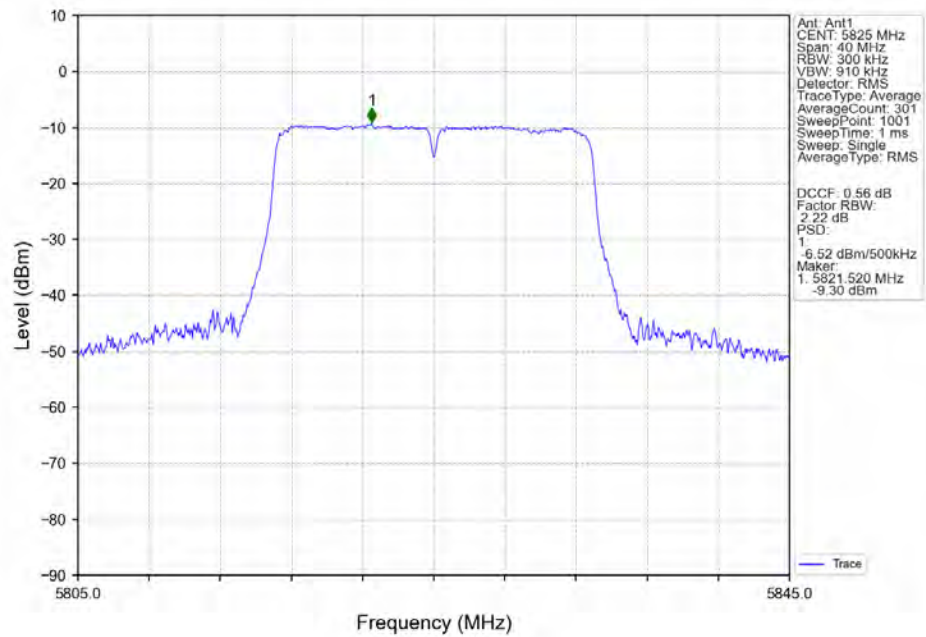
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



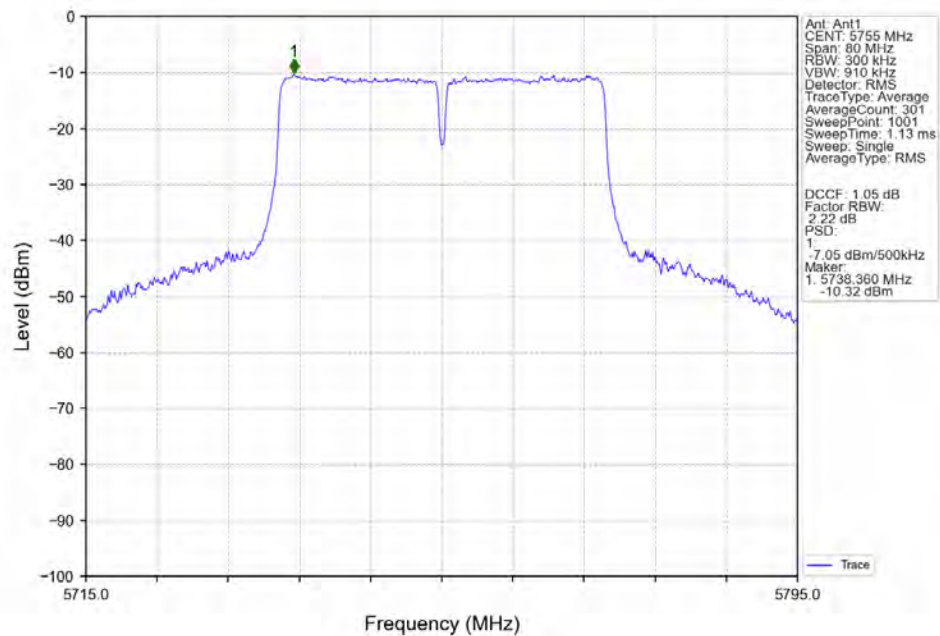
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



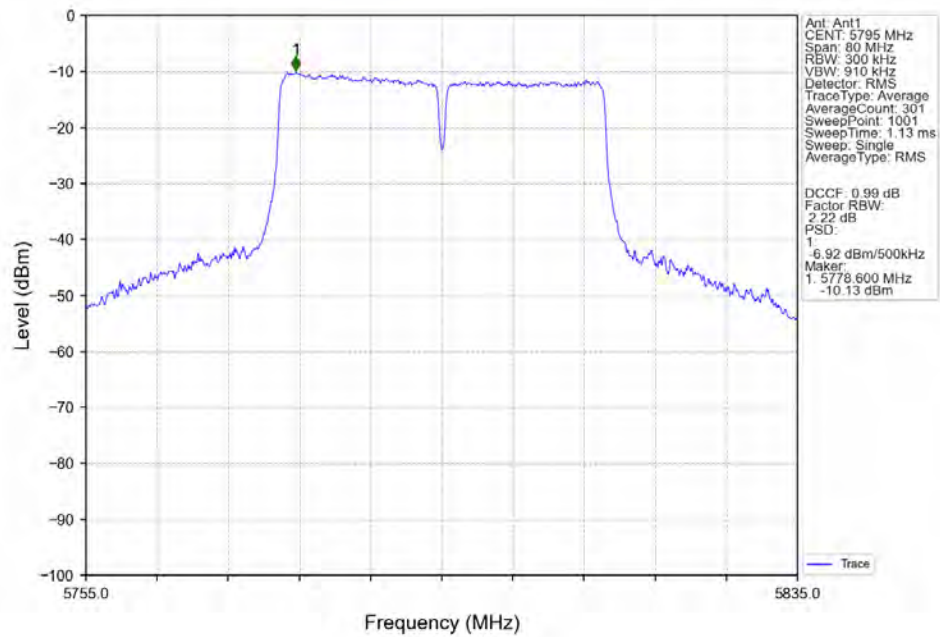
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



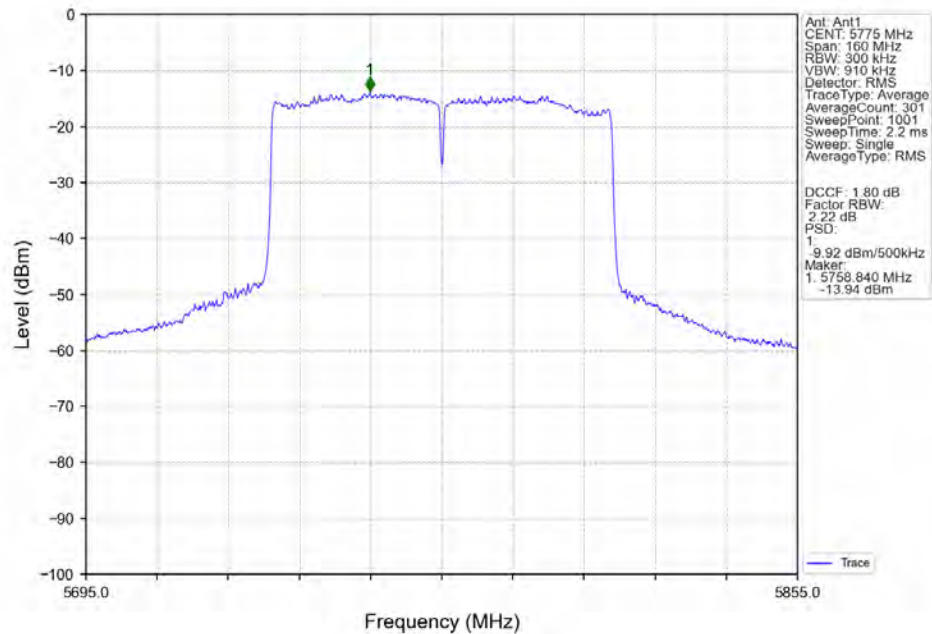
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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



## 5. Frequency Stability

### 5.1 Test Result

#### 5.1.1 Ant1

| Ant1         |         |                 |                  |               |                          |              |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5180            | 20               | 102           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5179.970                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         | 5200            | 20               | 102           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5199.966                 | 5150 to 5250 | Pass    |
|              |         | 5240            | 20               | 102           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5239.965                 | 5150 to 5250 | Pass    |
|              |         | 5745            | 20               | 102           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5744.963                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5744.962                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5744.961                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5744.961                 | 5725 to 5850 | Pass    |
|              |         | 5785            | 20               | 102           | 5784.961                 | 5725 to 5850 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      |     | 120 | 5784.961 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5784.961 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5784.961 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5784.960 | 5725 to 5850 | Pass |
|  |  | 5825 | 20  | 102 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5824.960 | 5725 to 5850 | Pass |
|  |  | 5190 | 20  | 102 | 5189.964 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5189.964 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5189.964 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5189.964 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5189.963 | 5150 to 5250 | Pass |
|  |  | 5230 | 20  | 102 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5229.962 | 5150 to 5250 | Pass |
|  |  | 5755 | 20  | 102 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5754.958 | 5725 to 5850 | Pass |
|  |  | 5795 | 20  | 102 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5794.958 | 5725 to 5850 | Pass |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -20 | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5794.958 | 5725 to 5850 | Pass |
|  |  | 5210 | 20  | 102 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5209.962 | 5150 to 5250 | Pass |
|  |  | 5775 | 20  | 102 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5774.958 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5774.958 | 5725 to 5850 | Pass |

## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 5180             | 5240            | 0.0114        | 10.57           |
| 5745             | 5825            | 0.0099        | 9.95            |
| 5190             | 5230            | 0.0123        | 10.89           |
| 5755             | 5795            | 0.0108        | 10.33           |
| 5210             | 5210            | 0.0105        | 10.20           |