



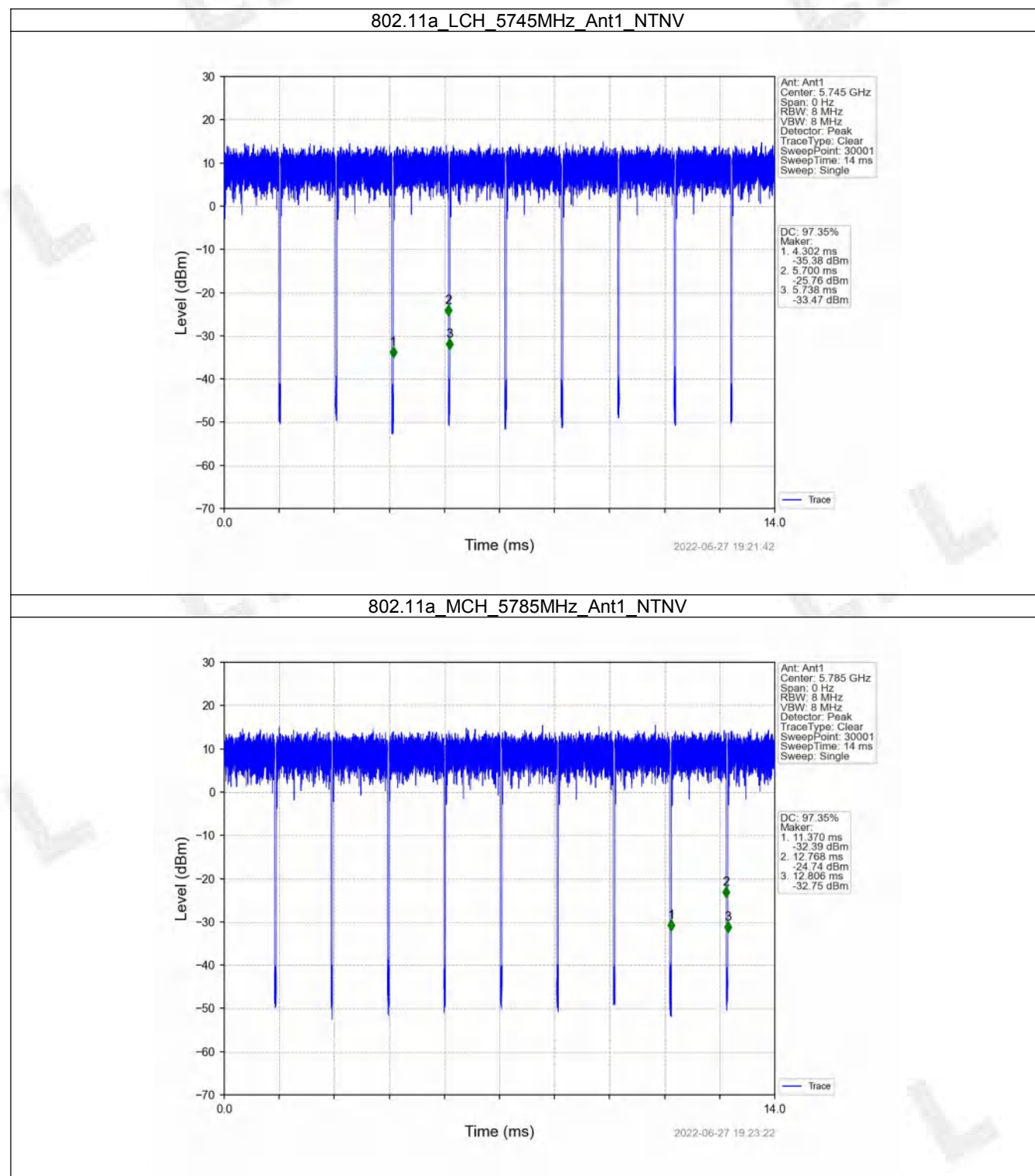
## 1. Duty Cycle

### 1.1 Ant1

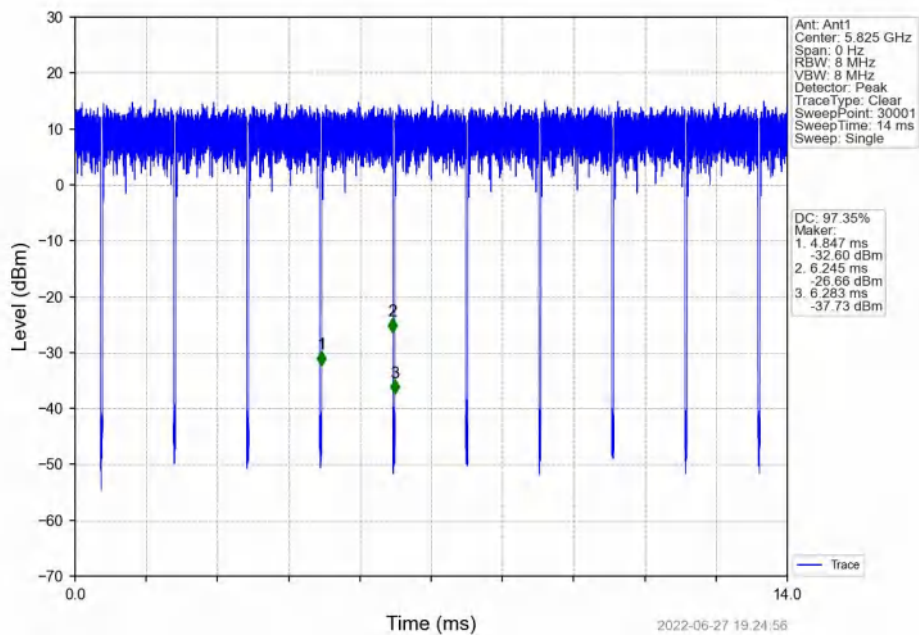
#### 1.1.1 Test Result

| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5745            | 1.398     | 1.436       | 97.35          | 0.12                              | 0.03                  |
|                  |         | 5785            | 1.398     | 1.436       | 97.35          | 0.12                              | 0.03                  |
|                  |         | 5825            | 1.398     | 1.436       | 97.35          | 0.12                              | 0.03                  |
| 802.11n (HT20)   | SISO    | 5745            | 1.310     | 1.348       | 97.18          | 0.12                              | 0.03                  |
|                  |         | 5785            | 1.310     | 1.347       | 97.25          | 0.12                              | 0.03                  |
|                  |         | 5825            | 1.310     | 1.348       | 97.18          | 0.12                              | 0.03                  |
| 802.11n (HT40)   | SISO    | 5755            | 0.651     | 0.688       | 94.62          | 0.24                              | 0.03                  |
|                  |         | 5795            | 0.651     | 0.688       | 94.62          | 0.24                              | 0.03                  |
| 802.11n (HT20)   | MIMO    | 5745            | 1.338     | 1.436       | 93.18          | 0.31                              | 0.03                  |
|                  |         | 5785            | 1.339     | 1.436       | 93.25          | 0.30                              | 0.03                  |
|                  |         | 5825            | 1.338     | 1.436       | 93.18          | 0.31                              | 0.00                  |
| 802.11n (HT40)   | MIMO    | 5755            | 0.667     | 0.763       | 87.42          | 0.58                              | 0.03                  |
|                  |         | 5795            | 0.667     | 0.763       | 87.42          | 0.58                              | 0.03                  |
| 802.11ac (VHT20) | SISO    | 5745            | 1.318     | 1.356       | 97.20          | 0.12                              | 0.03                  |
|                  |         | 5785            | 1.318     | 1.356       | 97.20          | 0.12                              | 0.07                  |
|                  |         | 5825            | 1.318     | 1.355       | 97.27          | 0.12                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5755            | 0.659     | 0.695       | 94.82          | 0.23                              | 0.03                  |
|                  |         | 5795            | 0.659     | 0.696       | 94.68          | 0.24                              | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5775            | 0.327     | 0.364       | 89.84          | 0.47                              | 0.04                  |
| 802.11ac (VHT20) | MIMO    | 5745            | 1.347     | 1.444       | 93.28          | 0.30                              | 0.03                  |
|                  |         | 5785            | 1.347     | 1.444       | 93.28          | 0.30                              | 0.03                  |
|                  |         | 5825            | 1.347     | 1.445       | 93.22          | 0.31                              | 0.03                  |
| 802.11ac (VHT40) | MIMO    | 5755            | 0.671     | 0.768       | 87.37          | 0.59                              | 0.03                  |
|                  |         | 5795            | 0.671     | 0.768       | 87.37          | 0.59                              | 0.03                  |
| 802.11ac (VHT80) | MIMO    | 5775            | 0.335     | 0.431       | 77.73          | 1.09                              | 0.06                  |

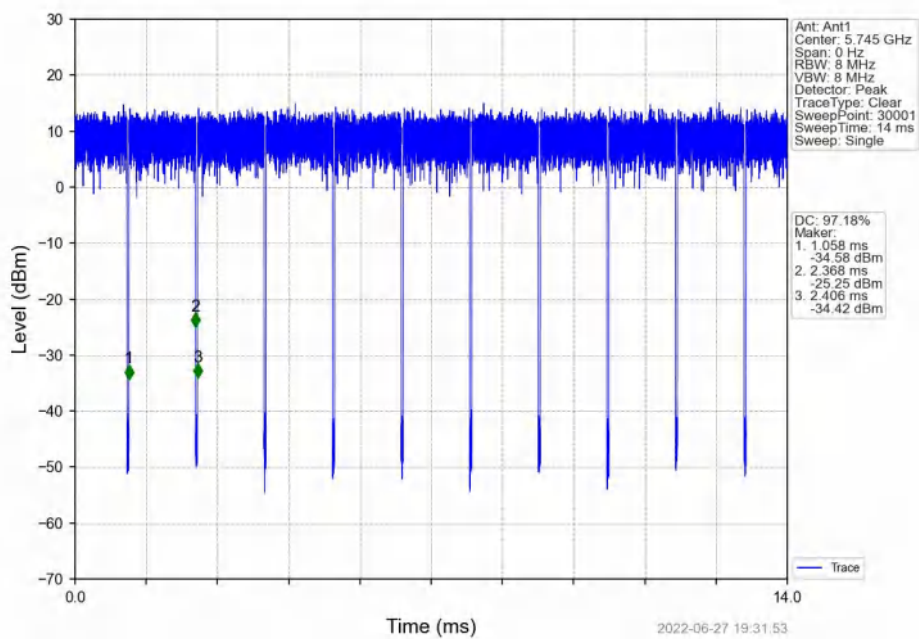
## 1.1.2 Test Graph



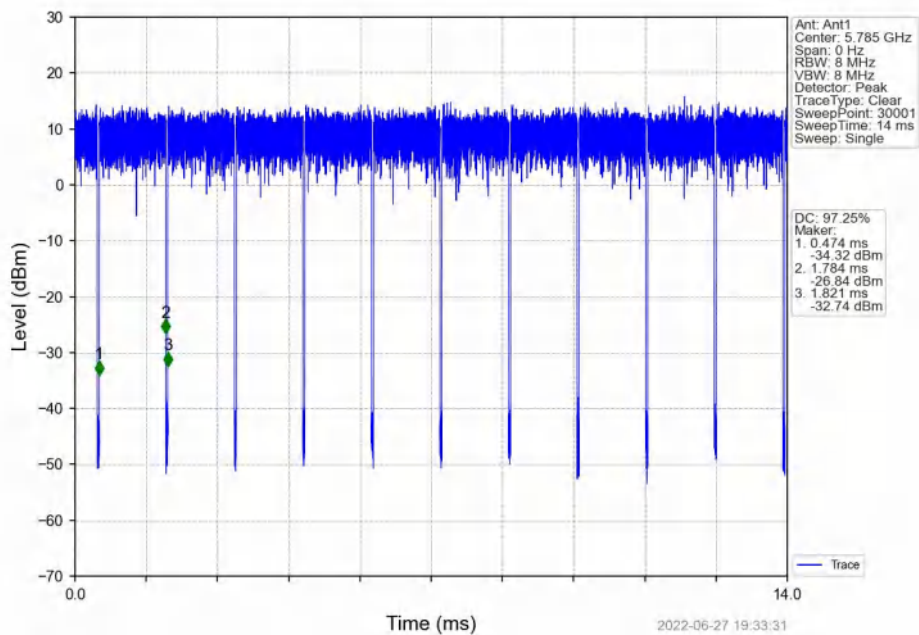
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



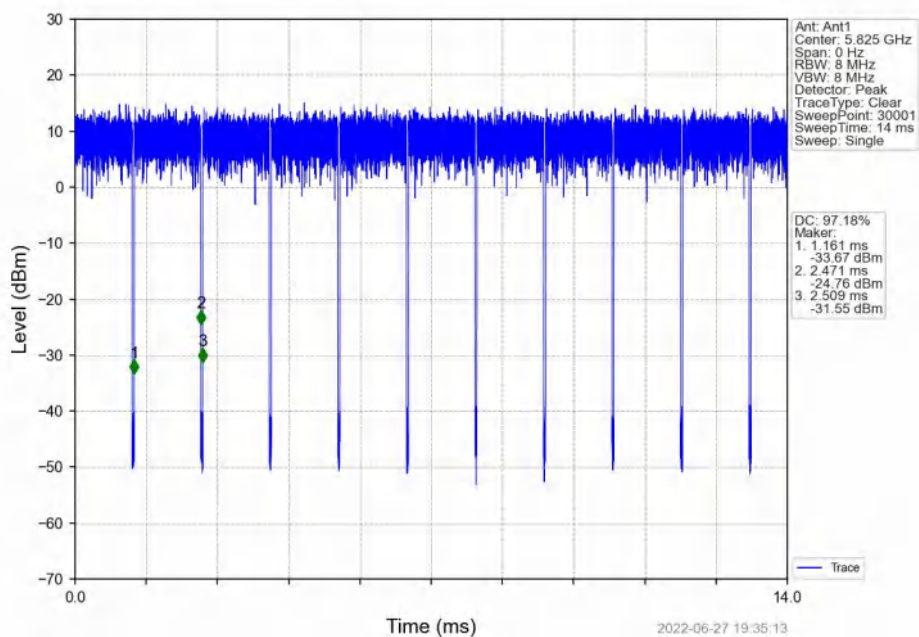
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



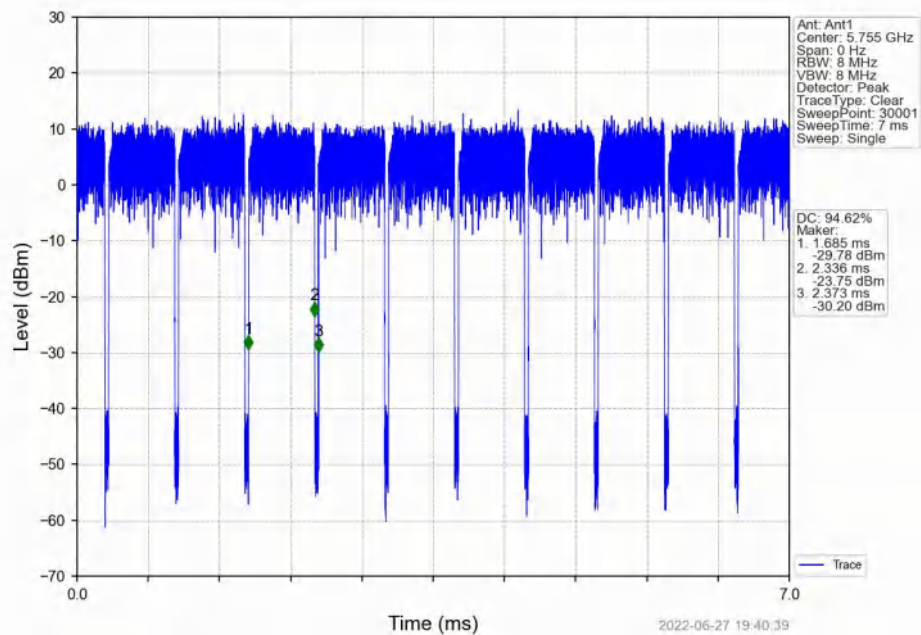
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



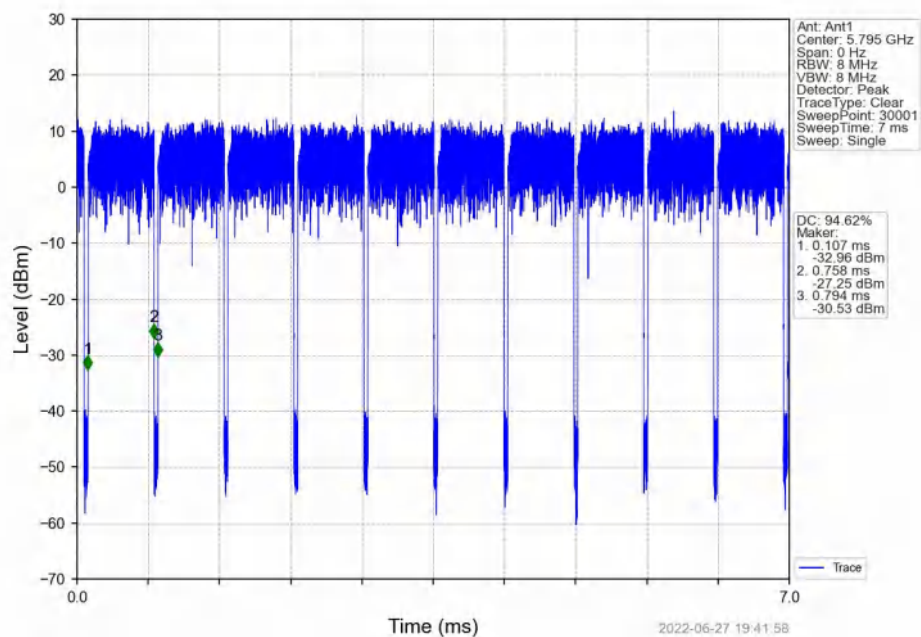
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



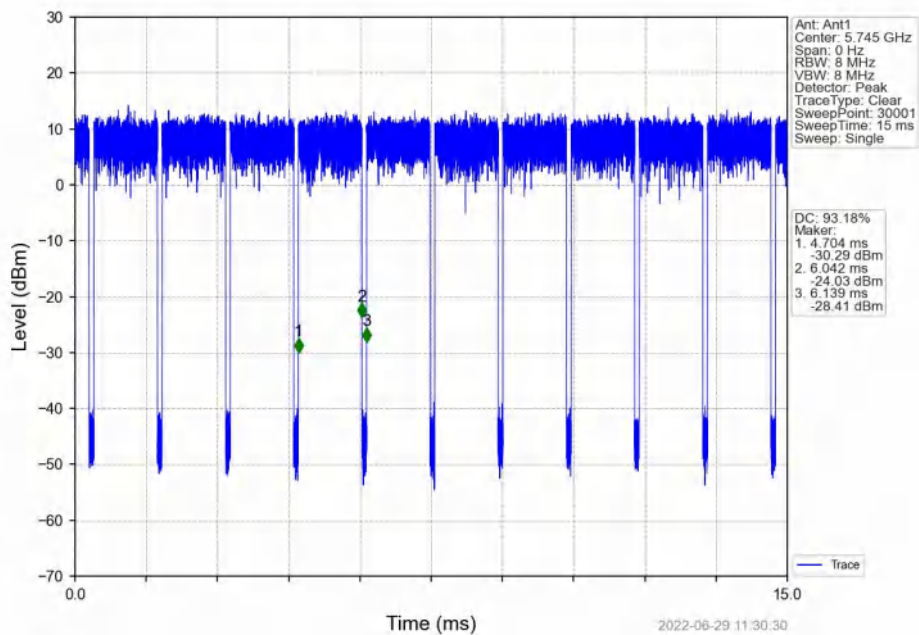
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



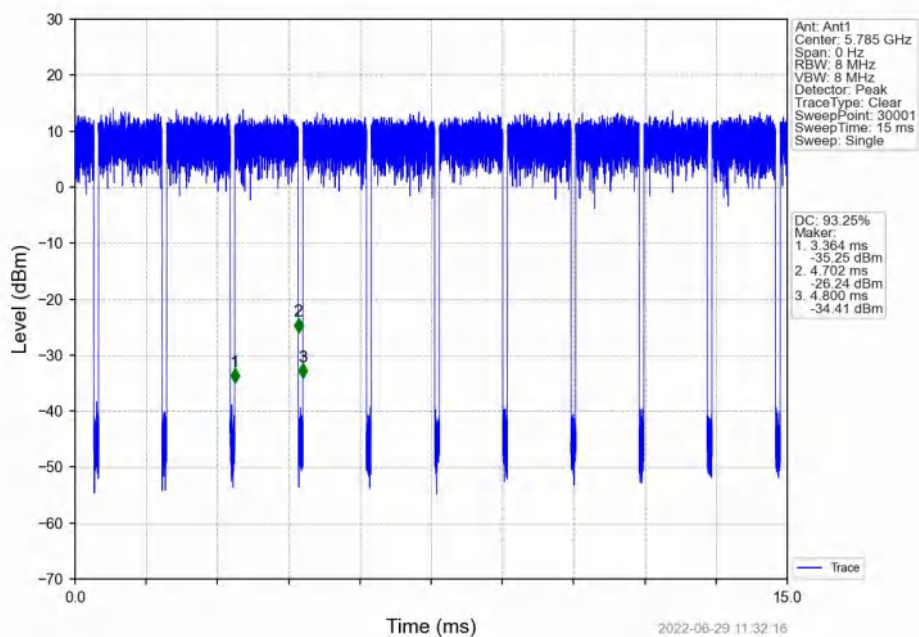
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



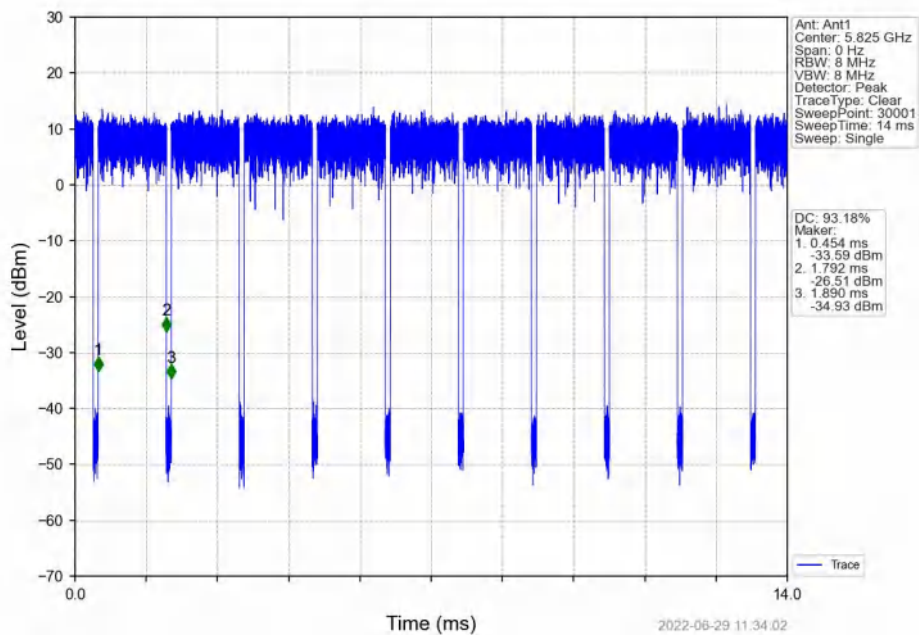
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



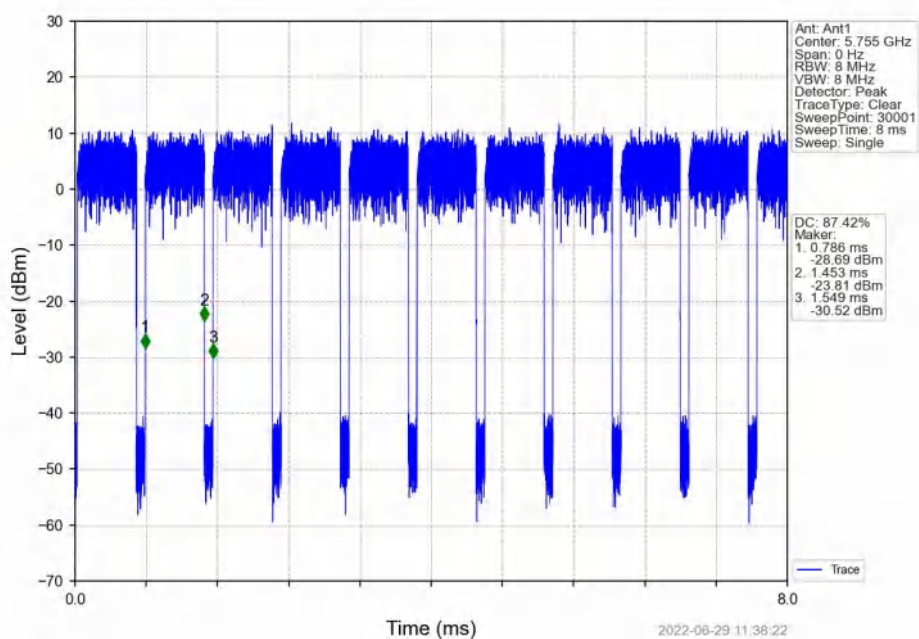
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



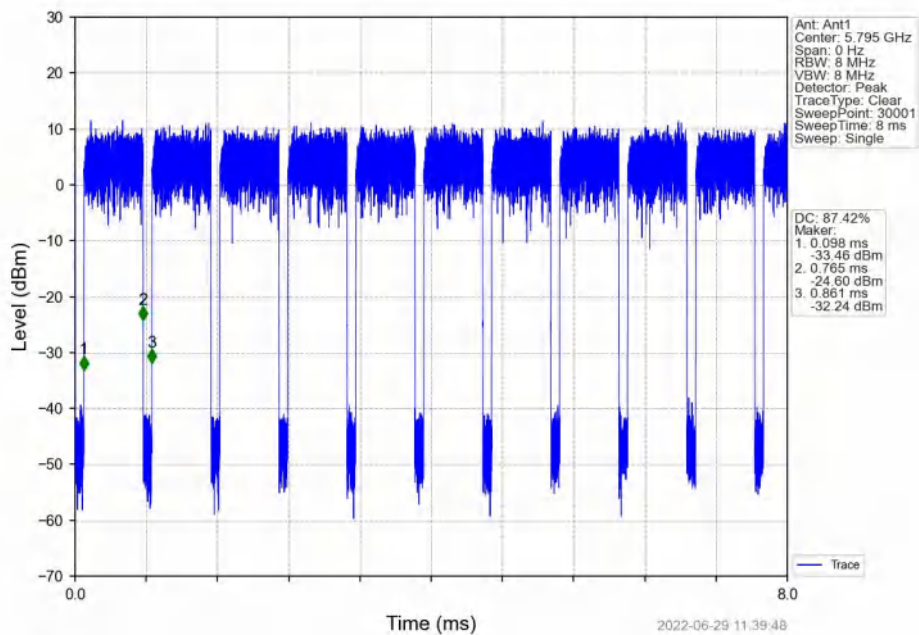
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



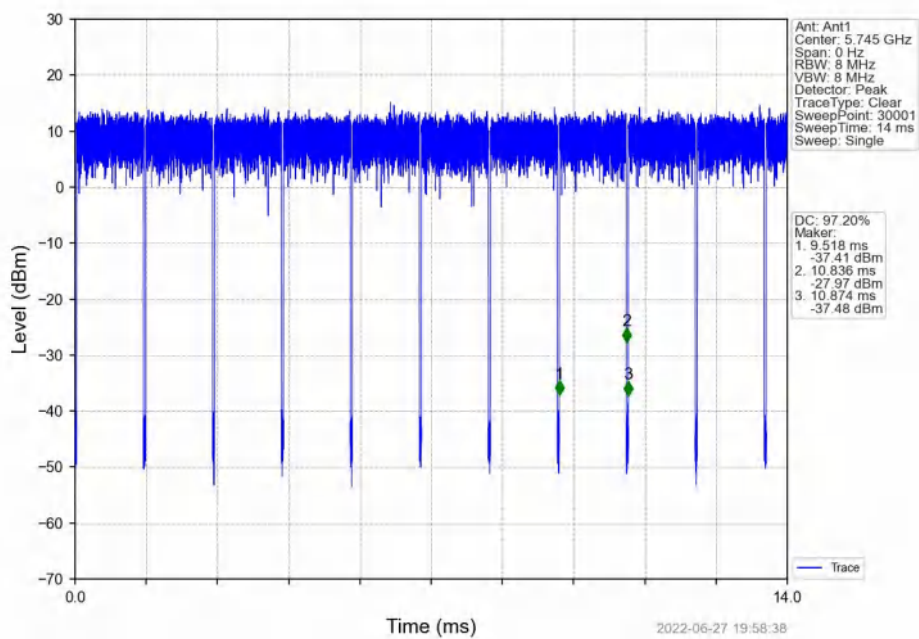
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



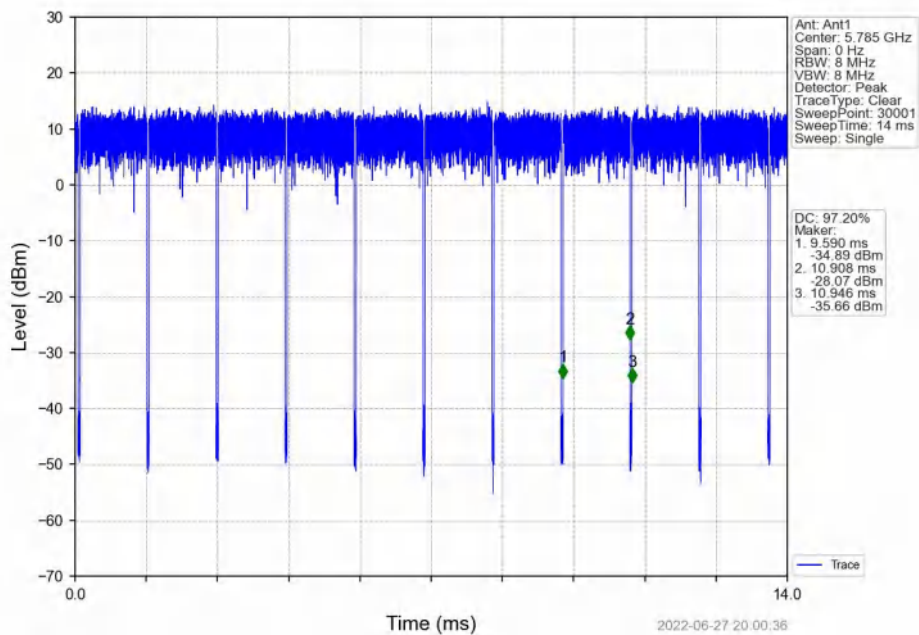
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



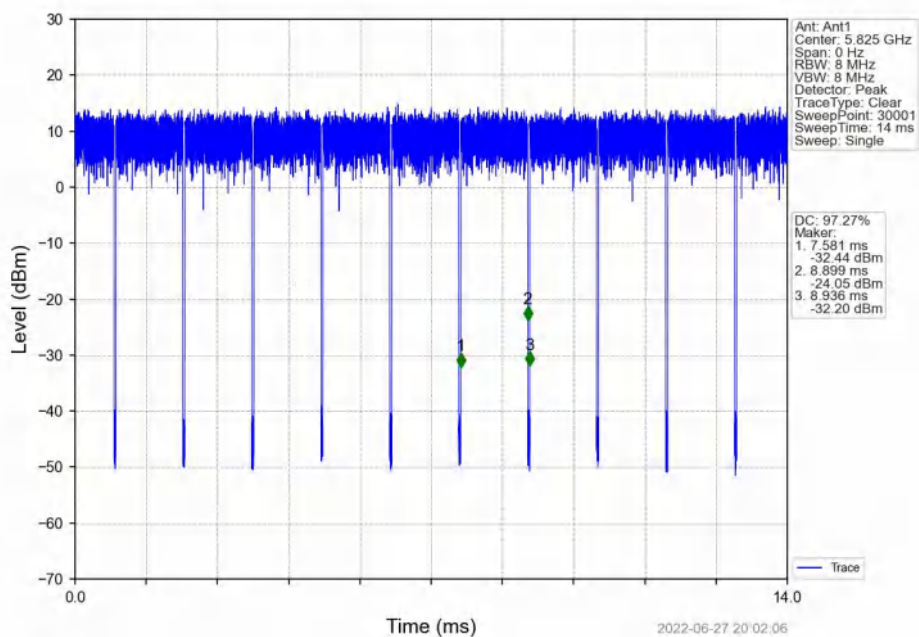
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



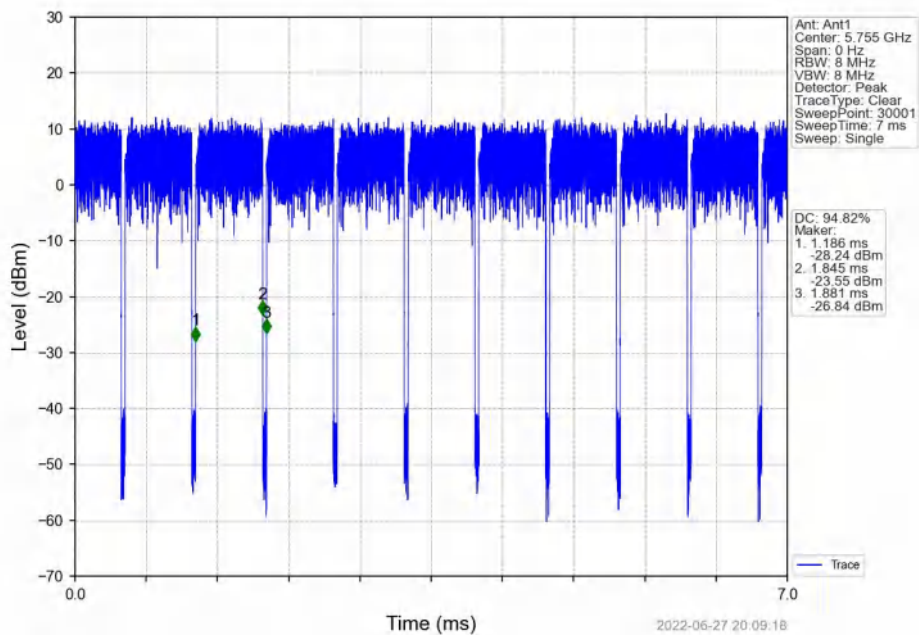
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



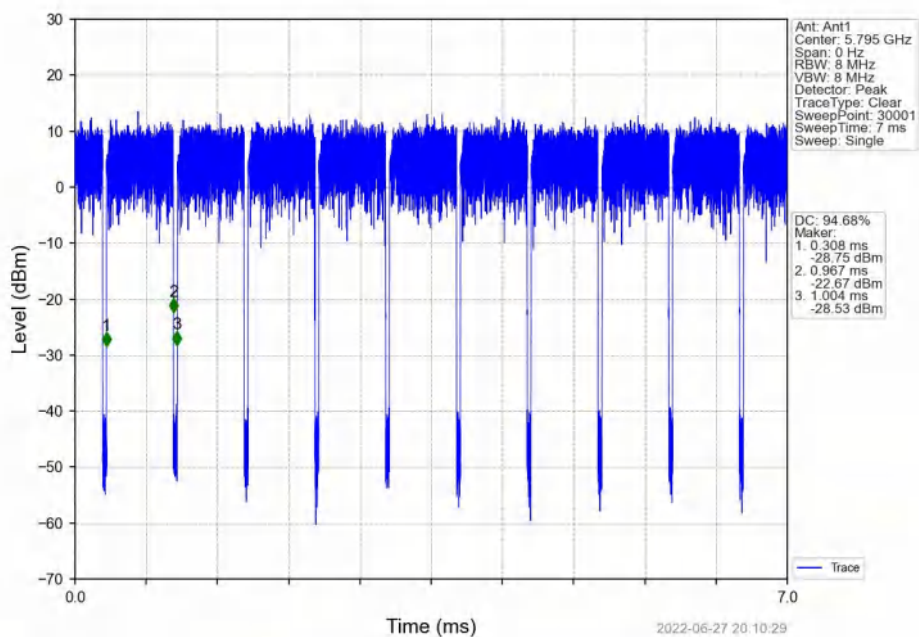
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



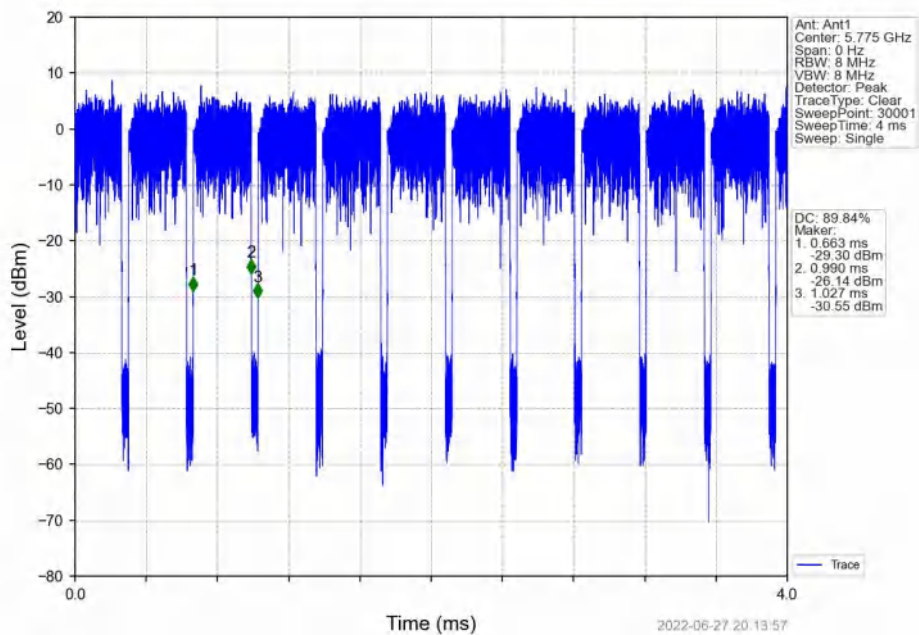
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



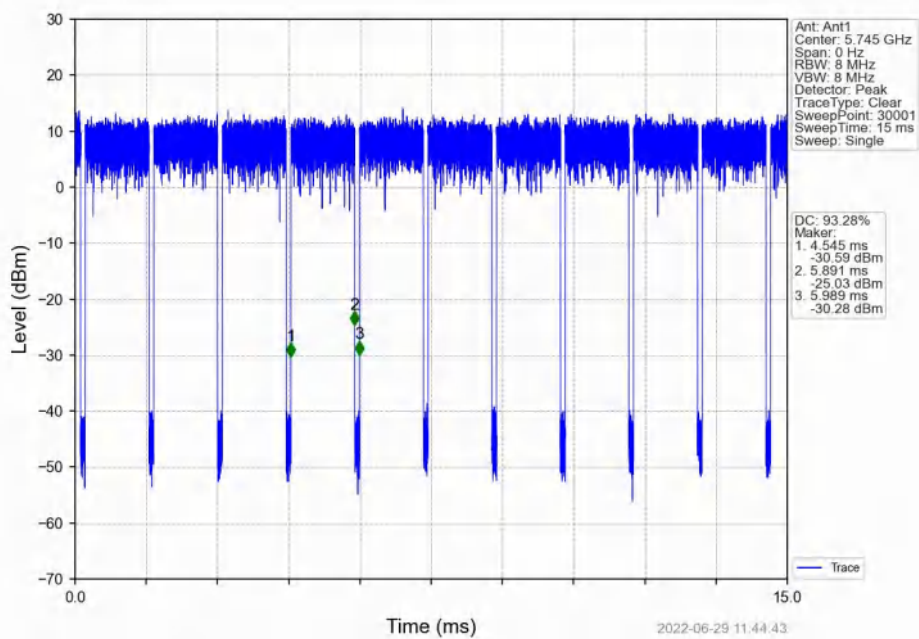
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



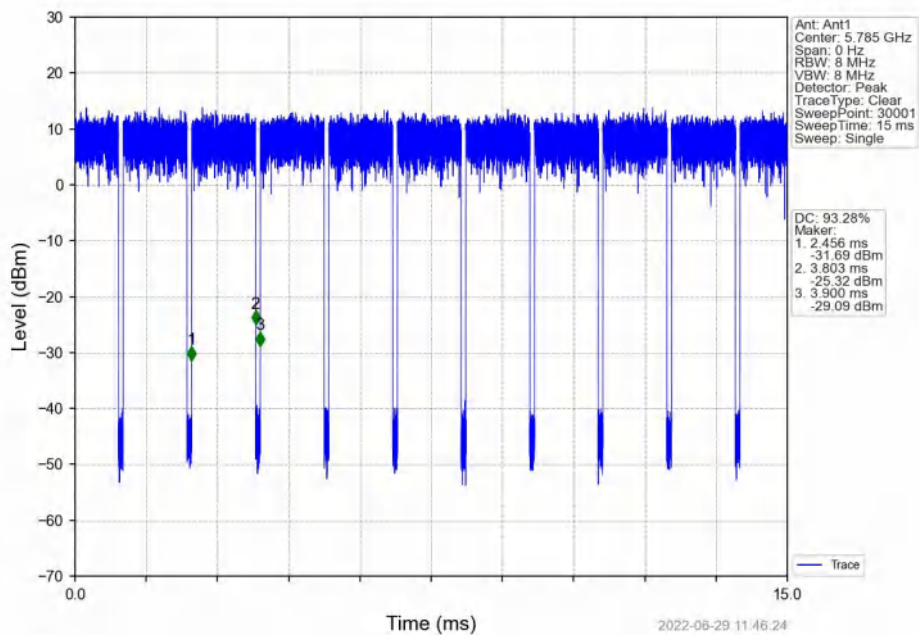
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



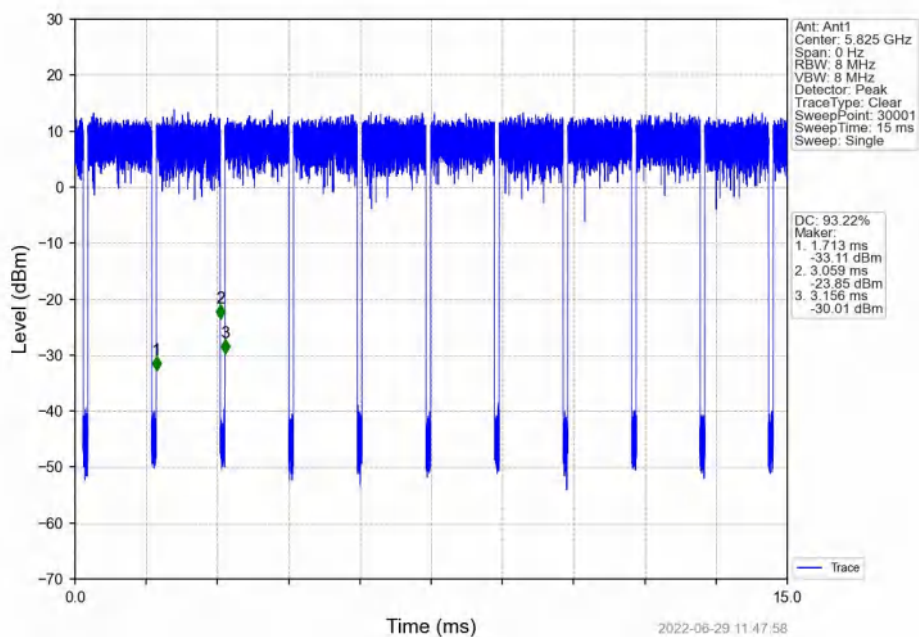
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



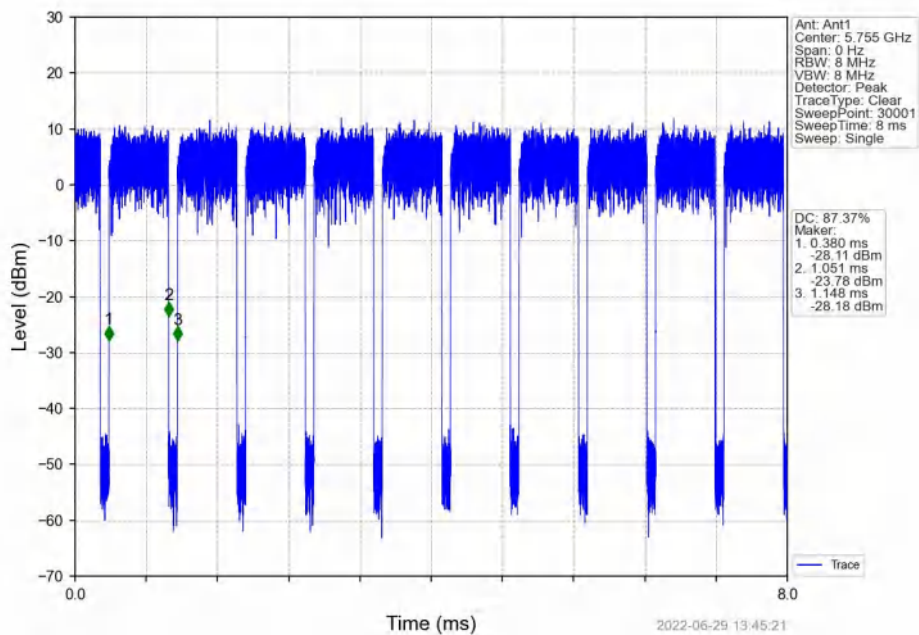
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



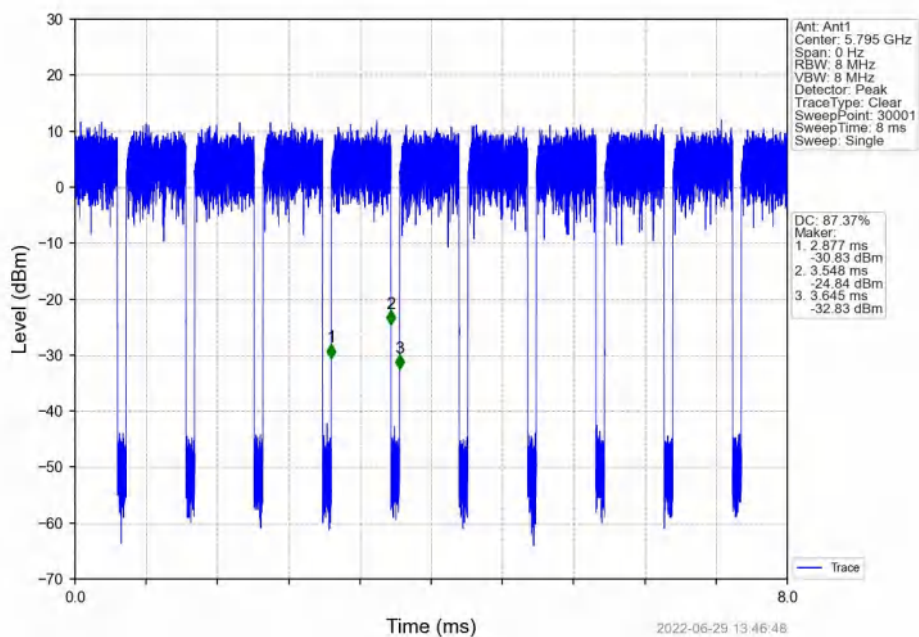
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



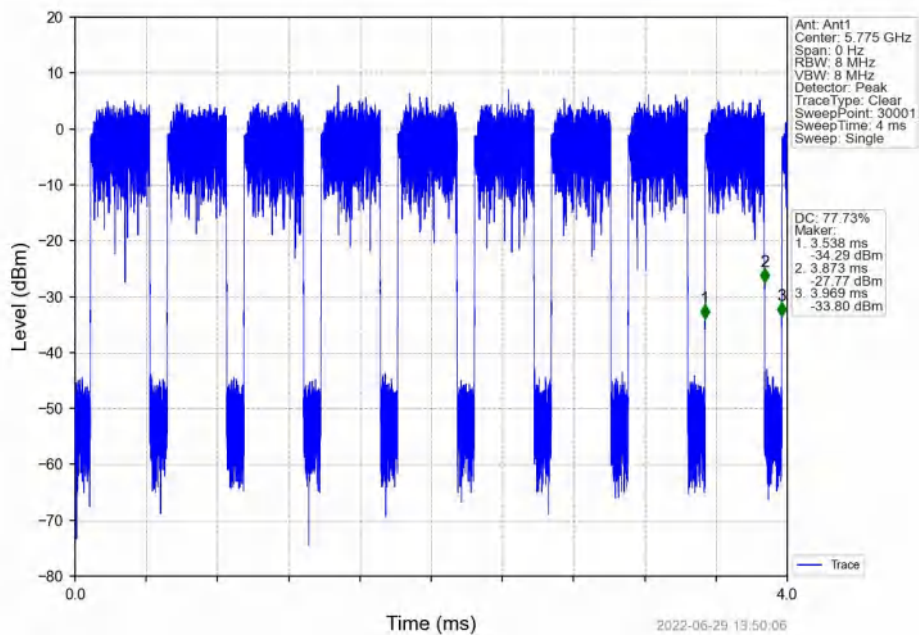
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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



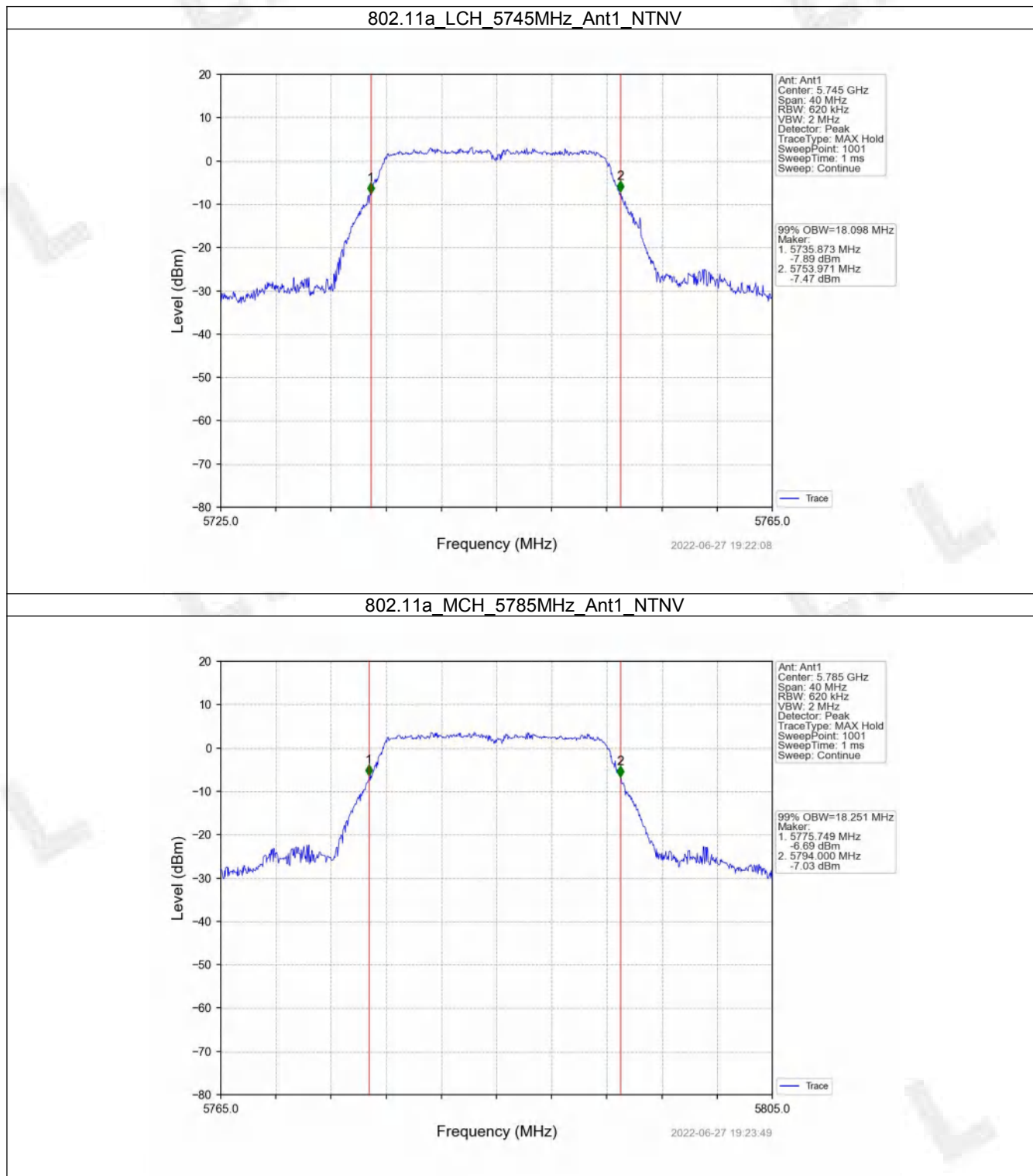
## 2. Bandwidth

### 2.1 OBW

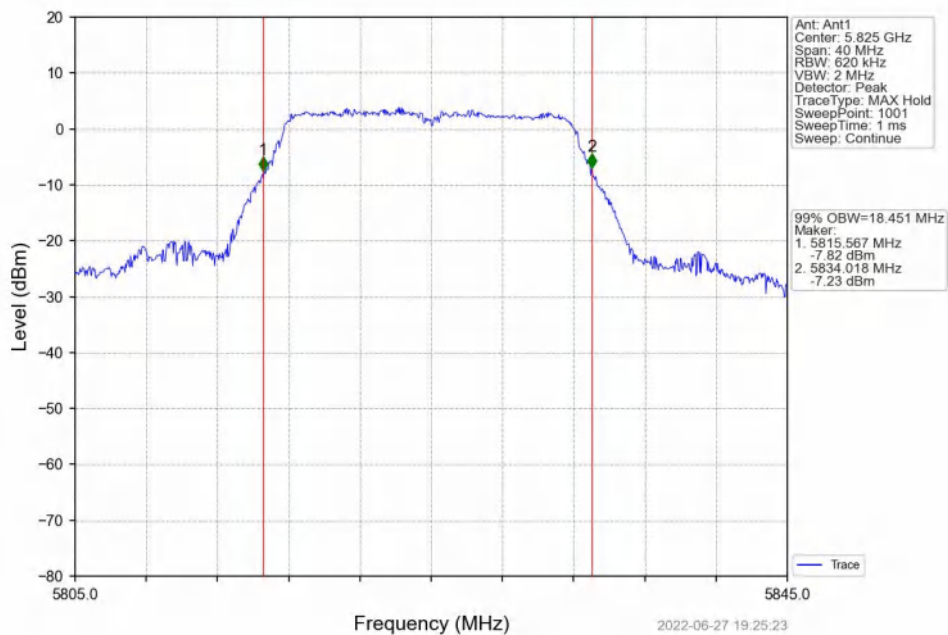
#### 2.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|------------------------------|---------|
|                  |         |                 |     | Result                       |         |
| 802.11a          | SISO    | 5745            | 1   | 18.098                       | Pass    |
|                  |         | 5785            | 1   | 18.251                       | Pass    |
|                  |         | 5825            | 1   | 18.451                       | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 18.967                       | Pass    |
|                  |         | 5785            | 1   | 18.936                       | Pass    |
|                  |         | 5825            | 1   | 19.129                       | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 37.223                       | Pass    |
|                  |         | 5795            | 1   | 37.274                       | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | 1   | 18.979                       | Pass    |
|                  |         | 5785            | 1   | 19.028                       | Pass    |
|                  |         | 5825            | 1   | 19.207                       | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | 1   | 37.268                       | Pass    |
|                  |         | 5795            | 1   | 37.547                       | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 18.949                       | Pass    |
|                  |         | 5785            | 1   | 19.005                       | Pass    |
|                  |         | 5825            | 1   | 19.086                       | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 37.253                       | Pass    |
|                  |         | 5795            | 1   | 37.443                       | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 76.458                       | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | 1   | 19.023                       | Pass    |
|                  |         | 5785            | 1   | 18.972                       | Pass    |
|                  |         | 5825            | 1   | 19.088                       | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | 1   | 37.210                       | Pass    |
|                  |         | 5795            | 1   | 37.464                       | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | 1   | 76.545                       | Pass    |

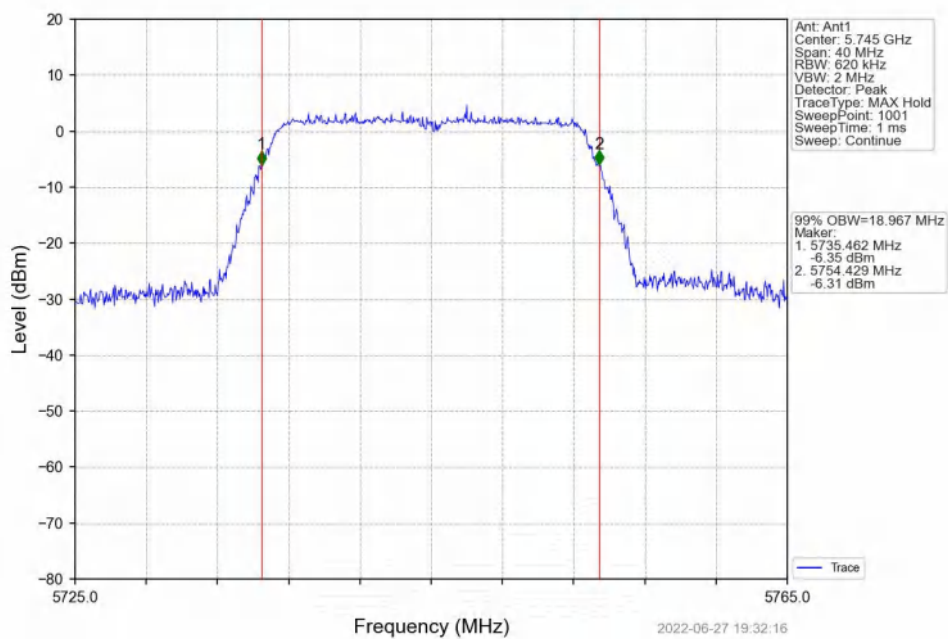
## 2.1.2 Test Graph



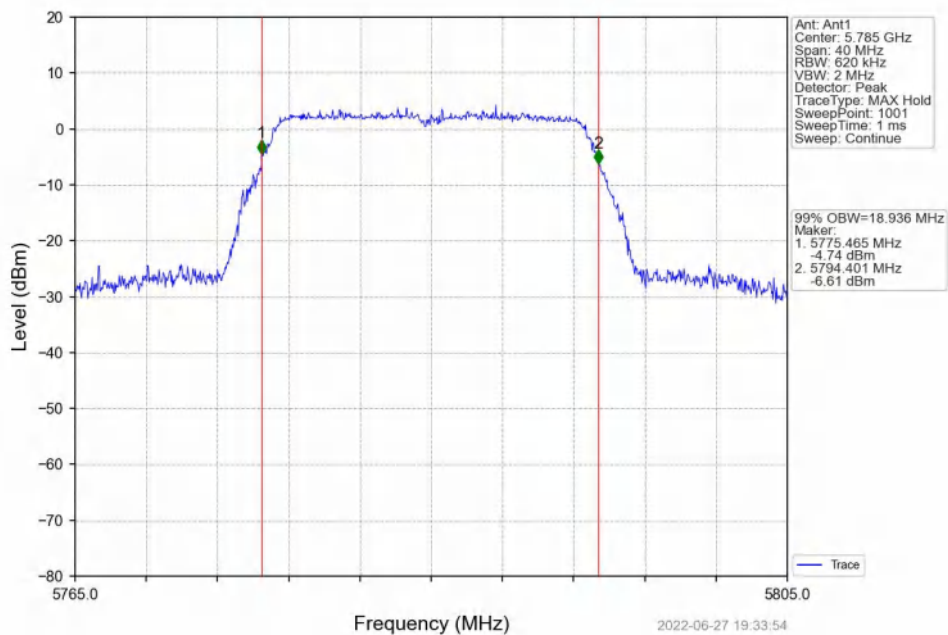
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



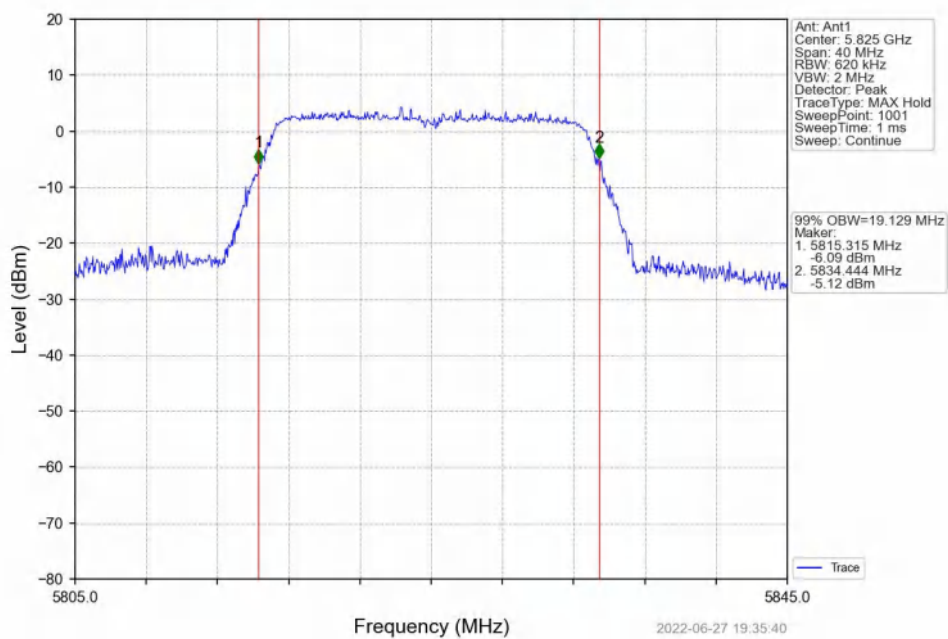
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



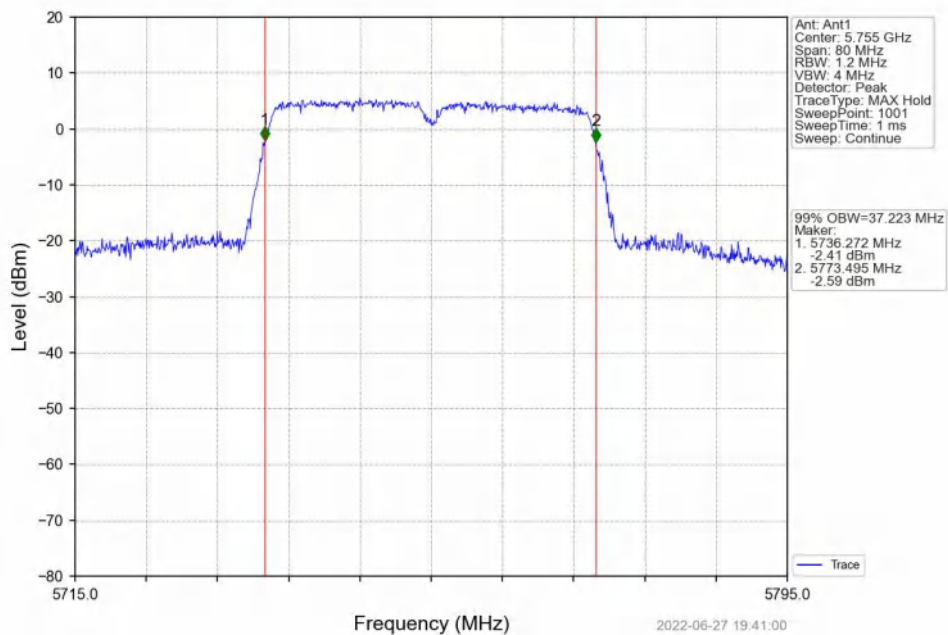
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



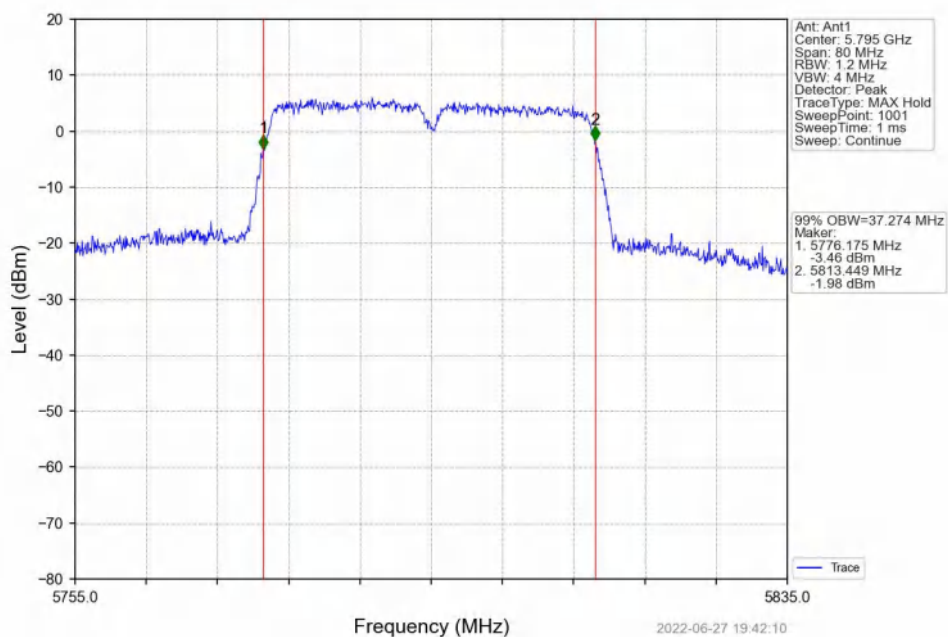
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



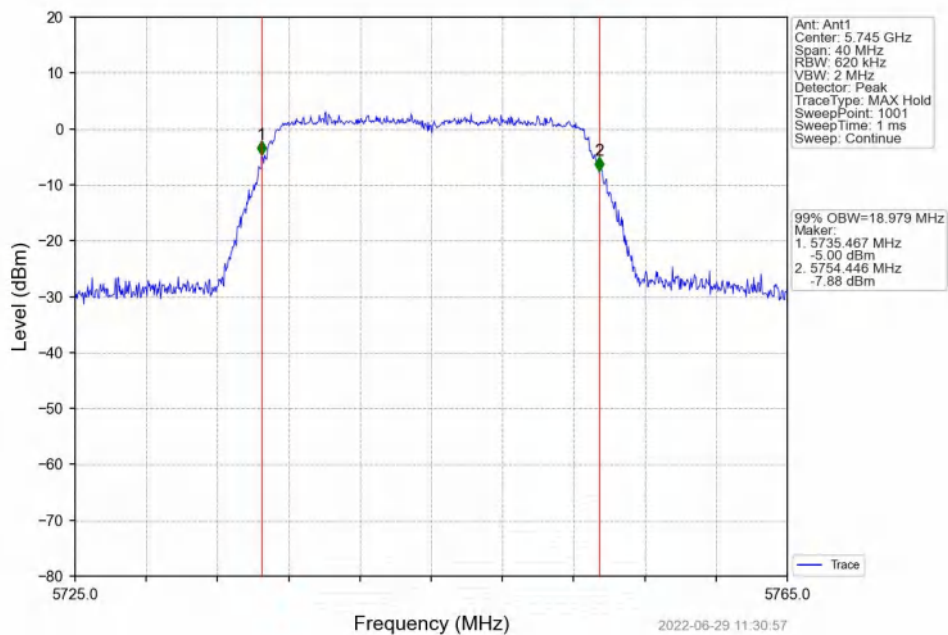
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



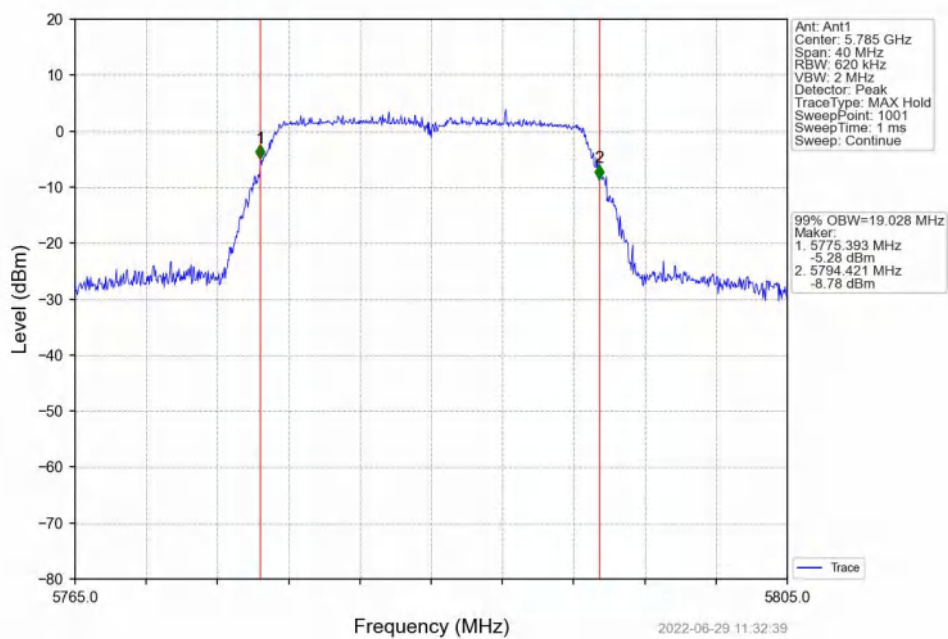
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



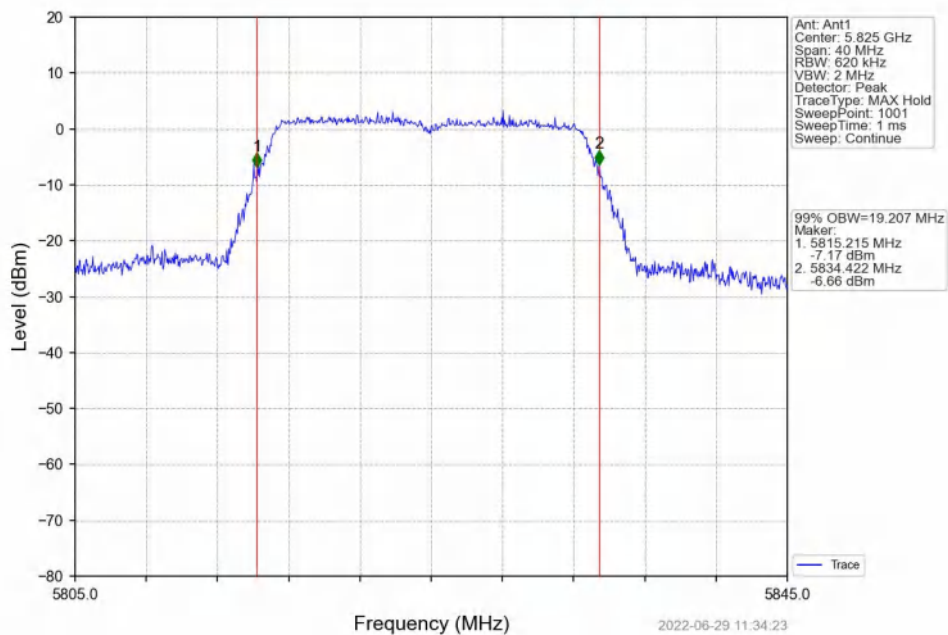
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



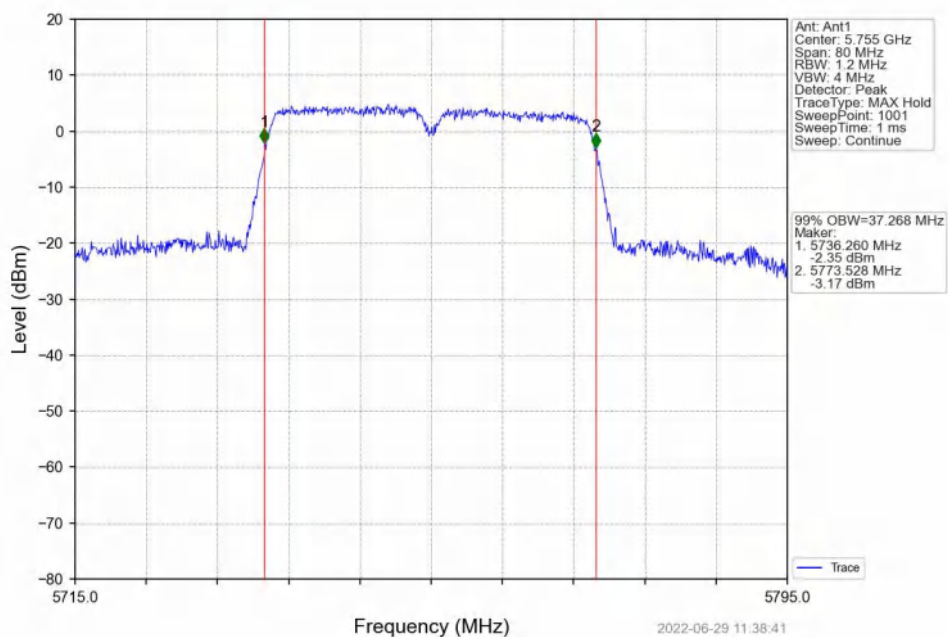
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



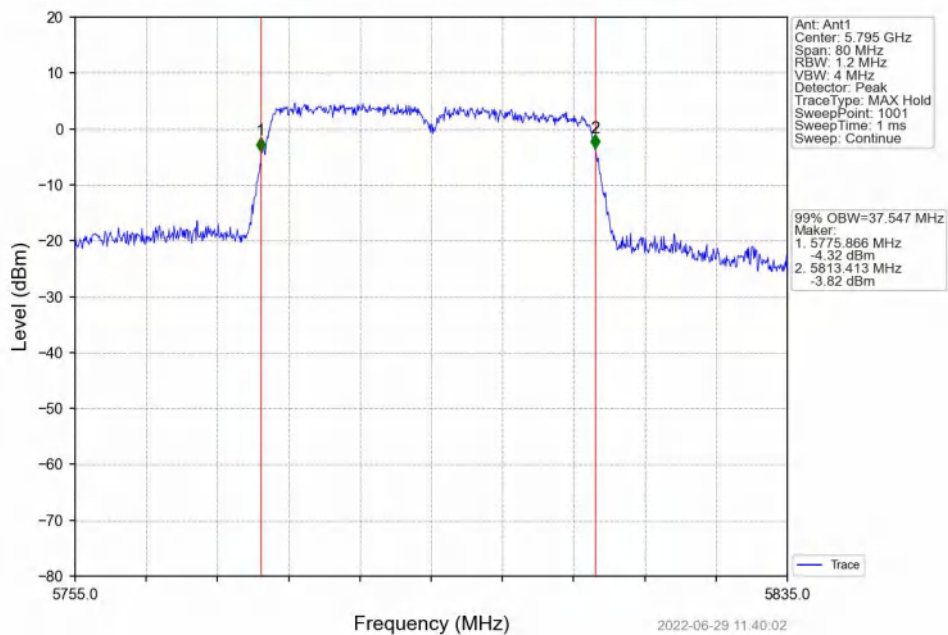
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



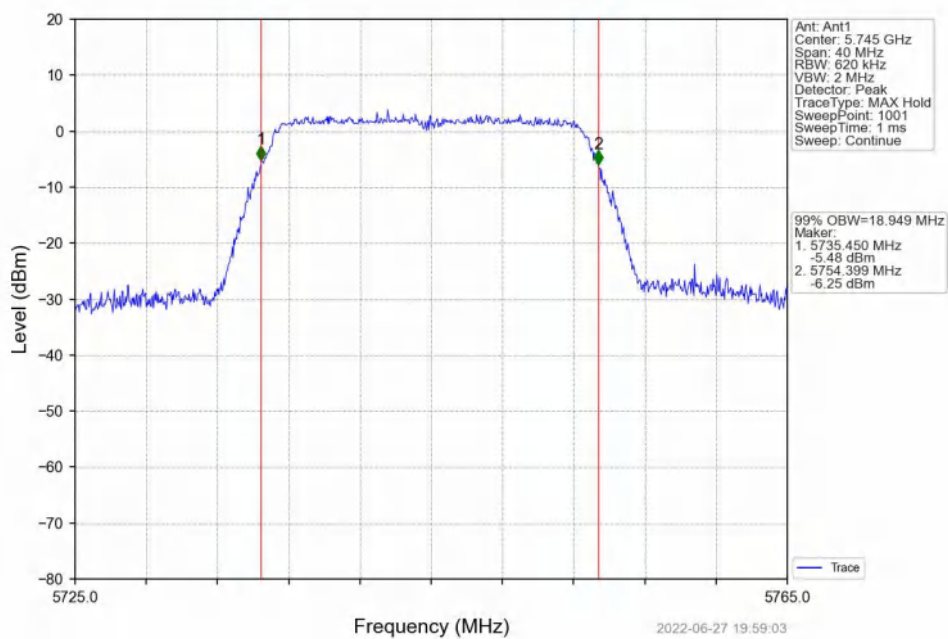
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



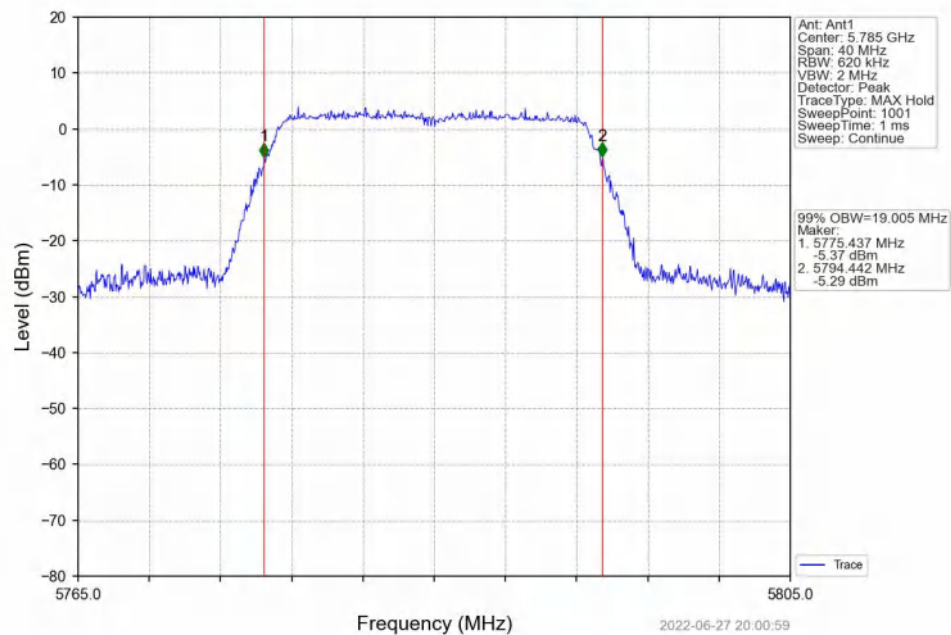
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



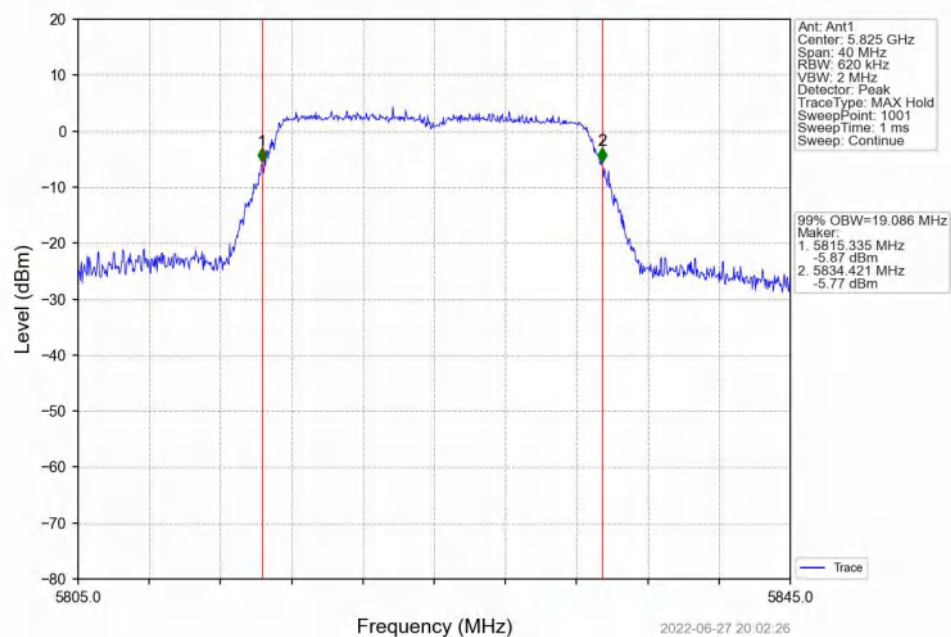
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



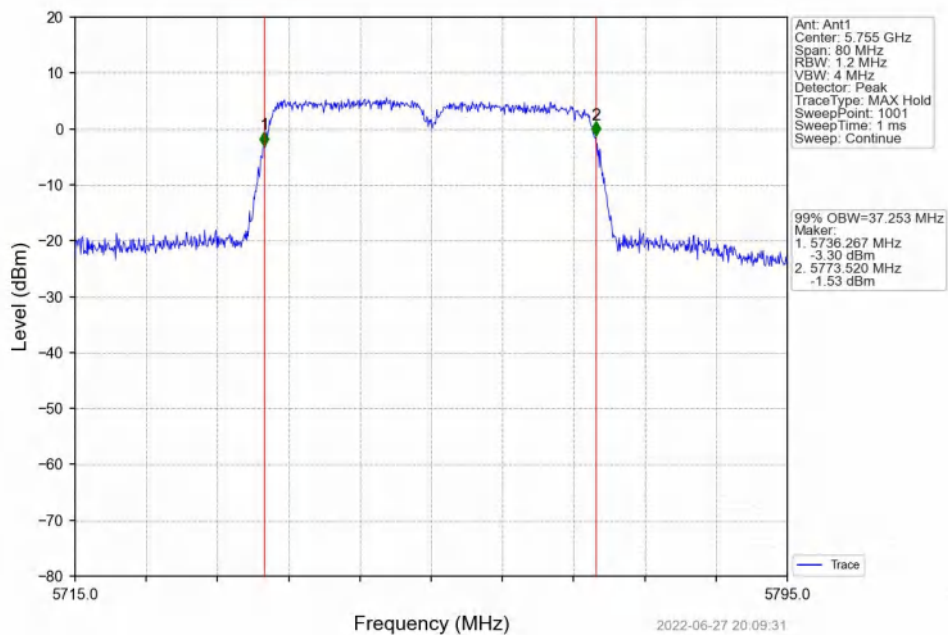
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



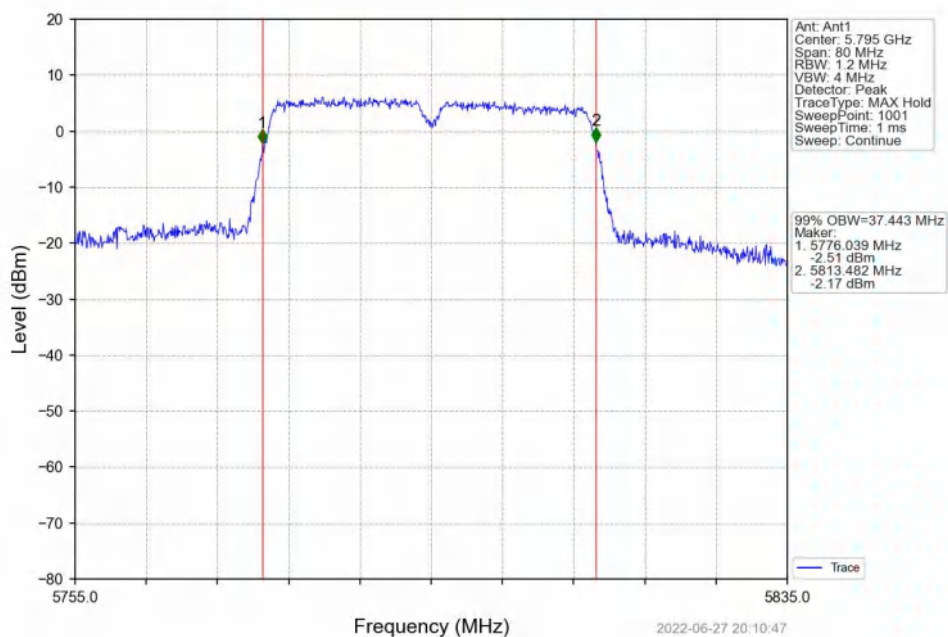
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



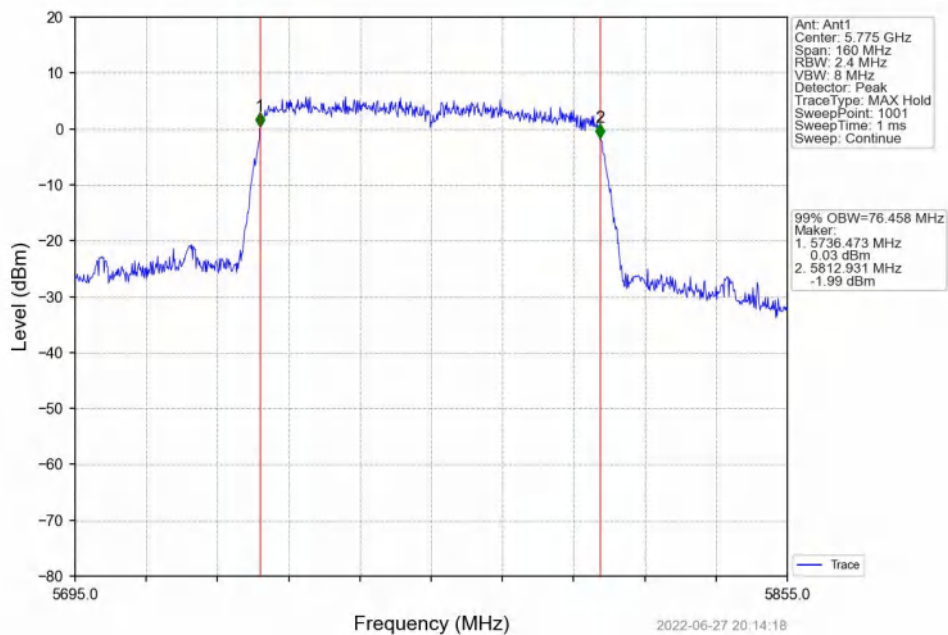
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



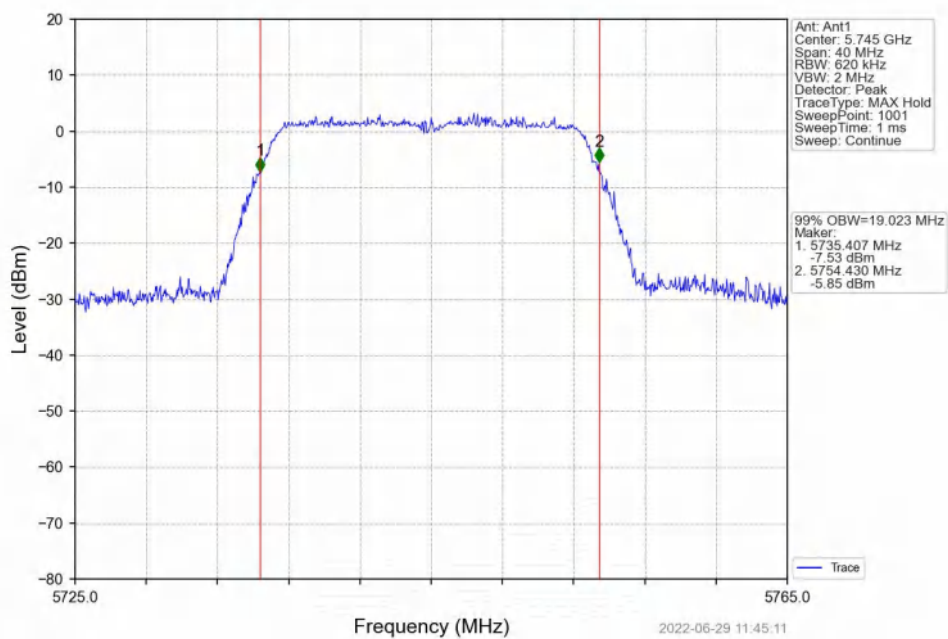
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



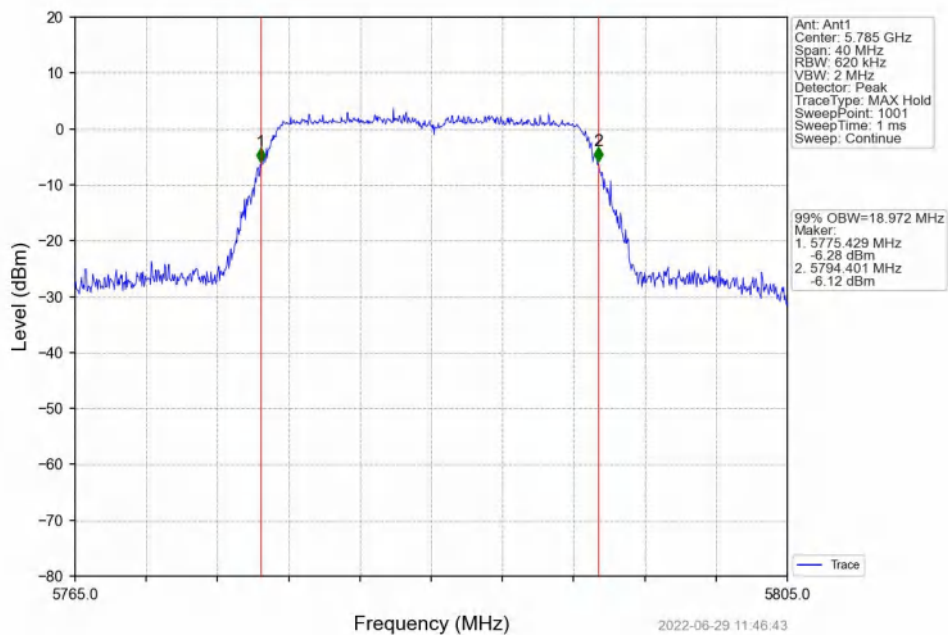
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



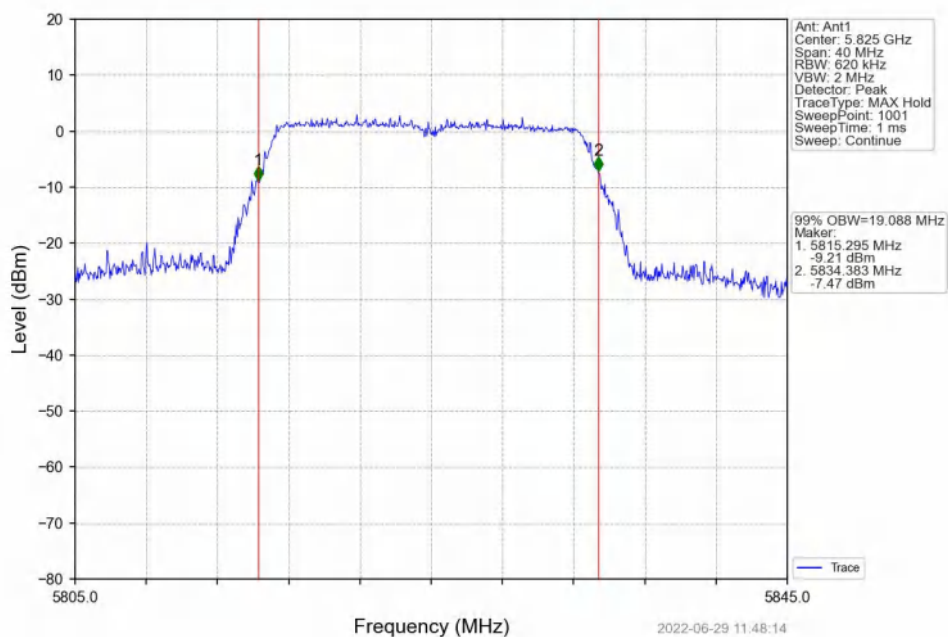
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



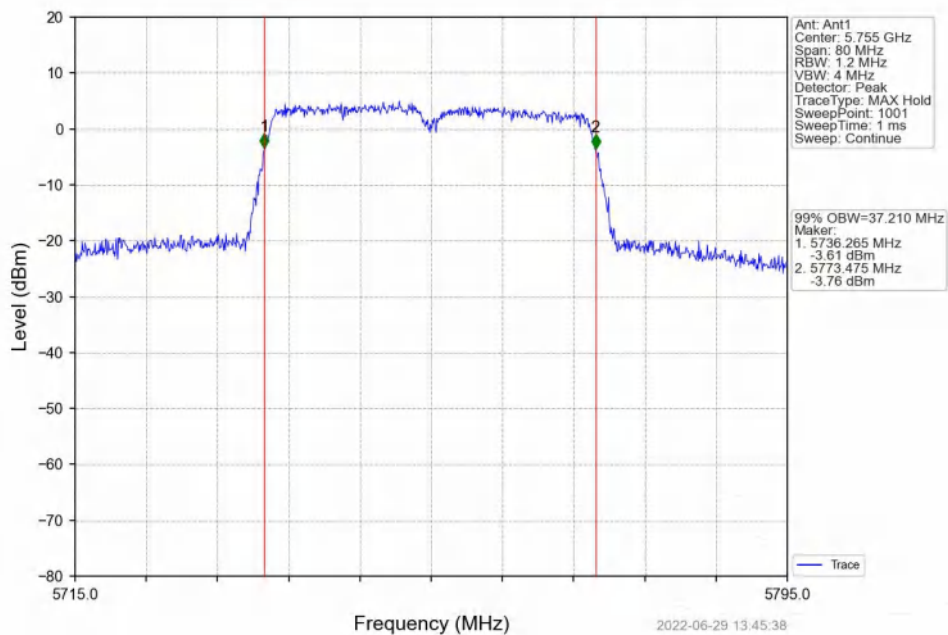
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



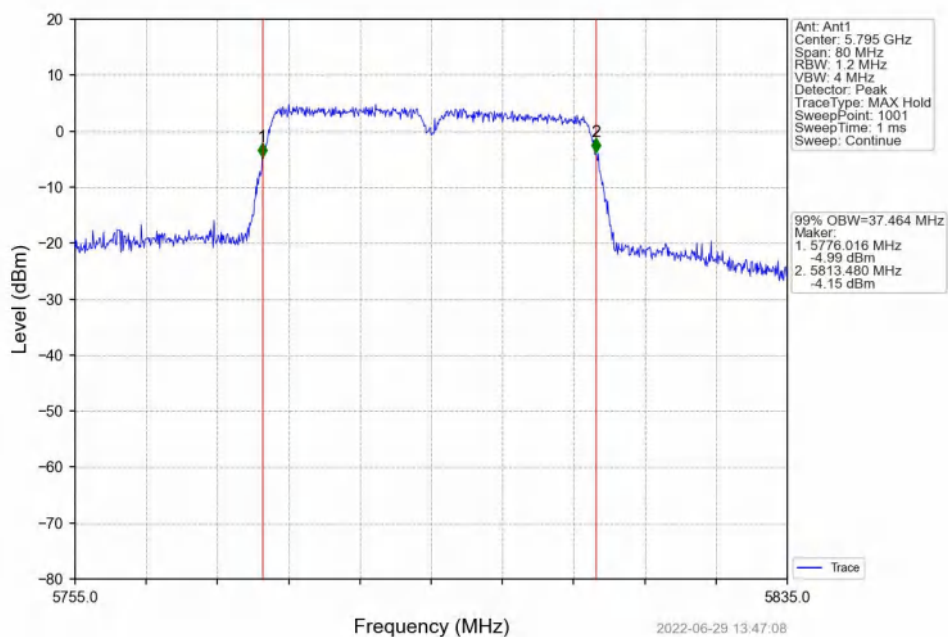
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV

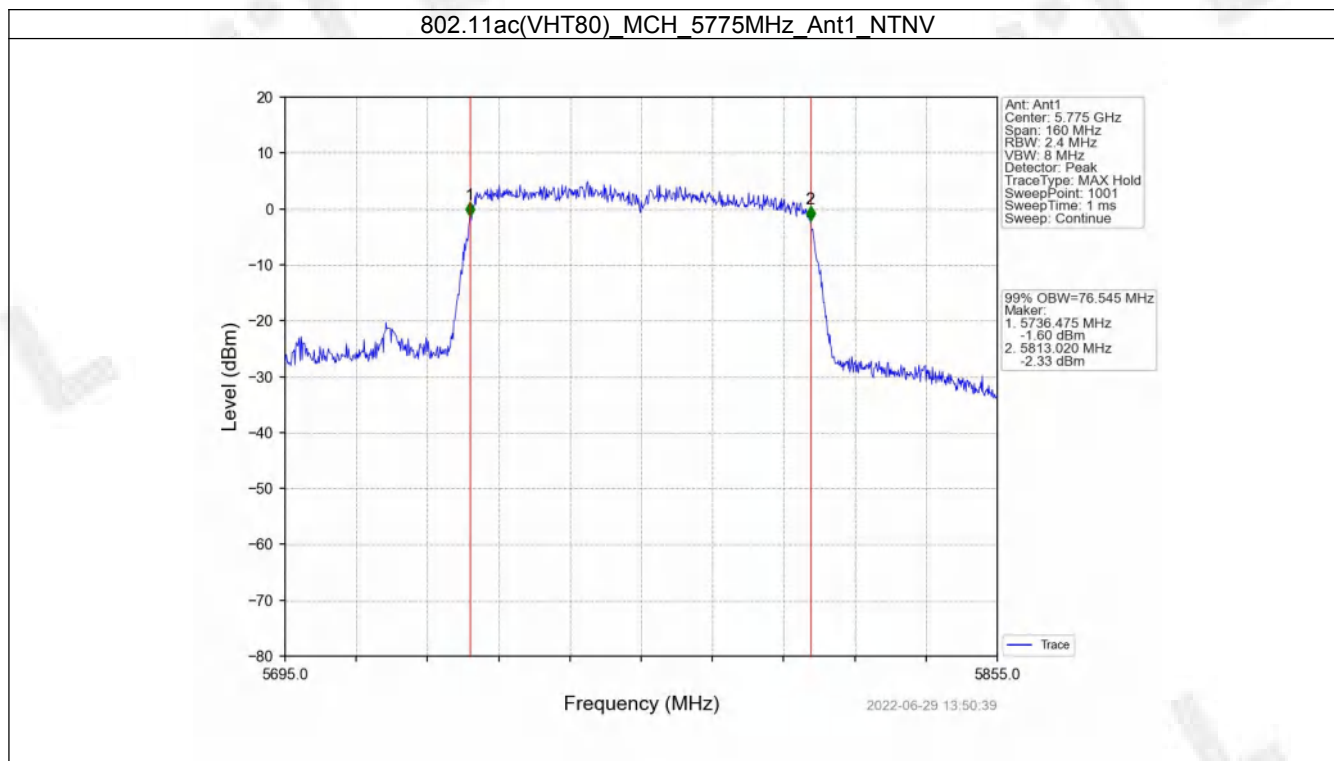


802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



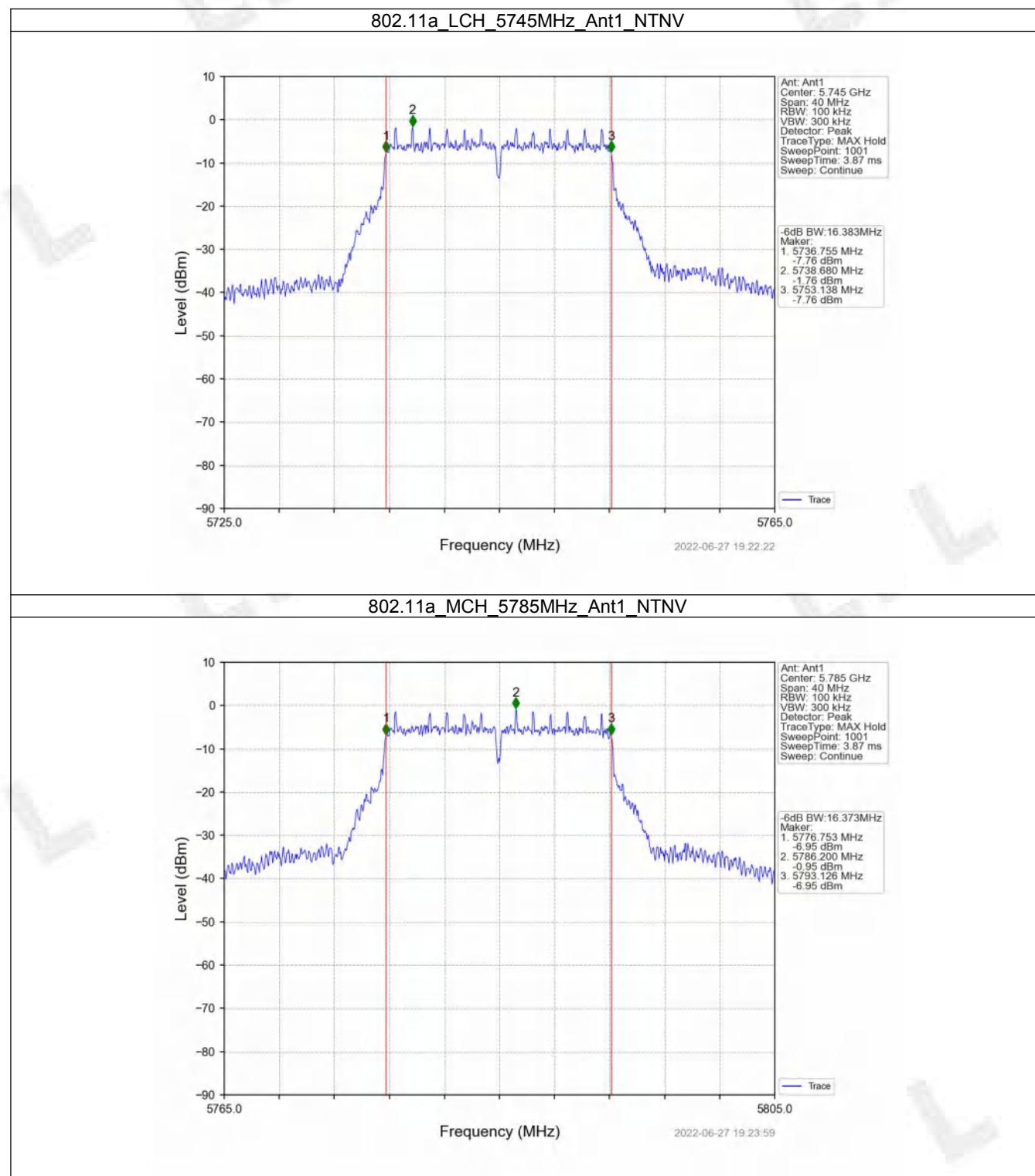


## 2.2 6dB BW

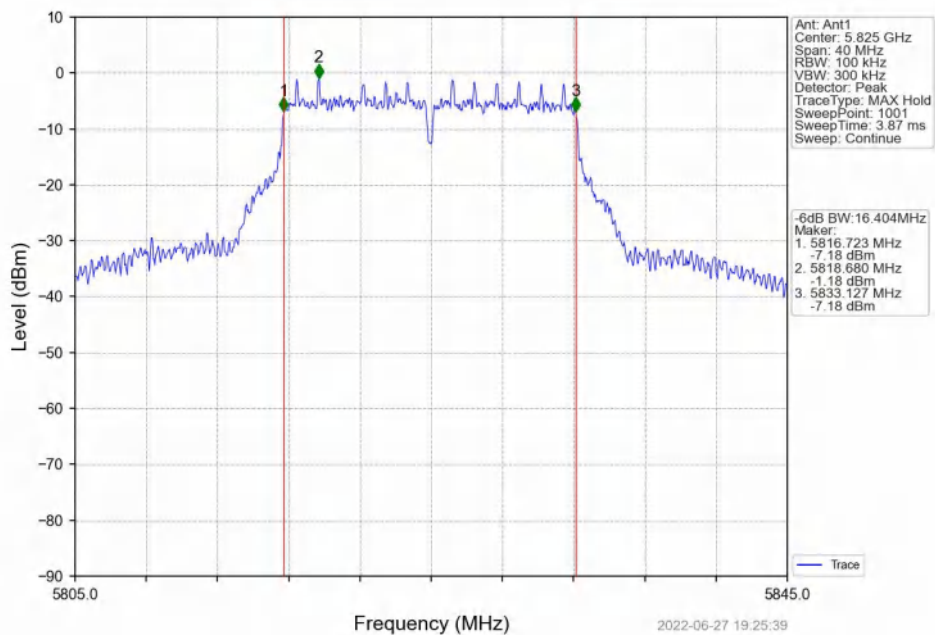
## 2.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | 1   | 16.383              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.373              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.404              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 17.605              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.617              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.627              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 36.037              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.785              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | 1   | 17.606              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.617              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.612              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | 1   | 35.763              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.961              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 17.609              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.611              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.632              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 35.782              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.781              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 75.742              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | 1   | 17.617              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.591              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.621              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | 1   | 35.951              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.762              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | 1   | 75.499              | $\geq 0.5$ | Pass    |

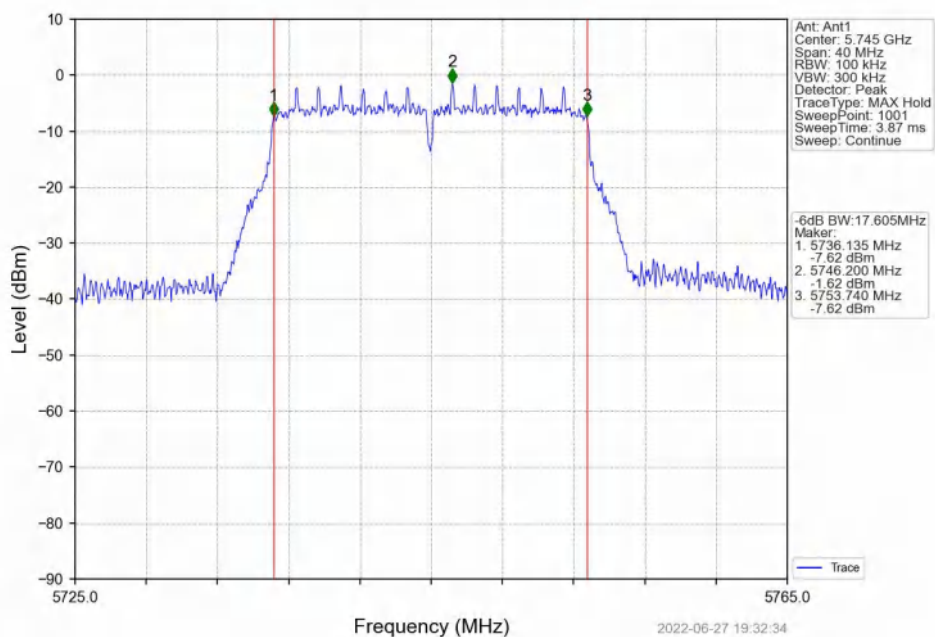
## 2.2.2 Test Graph



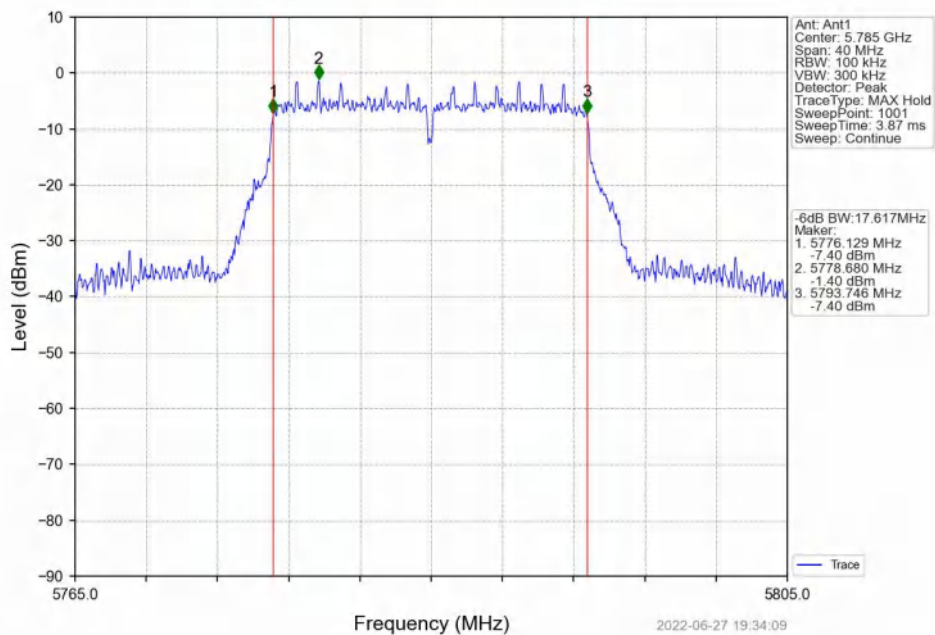
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



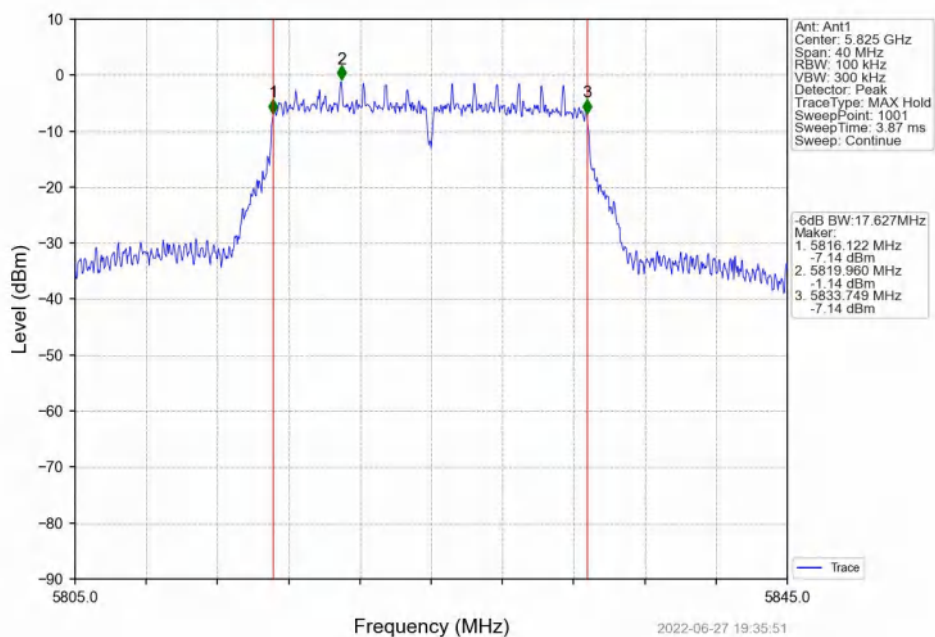
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



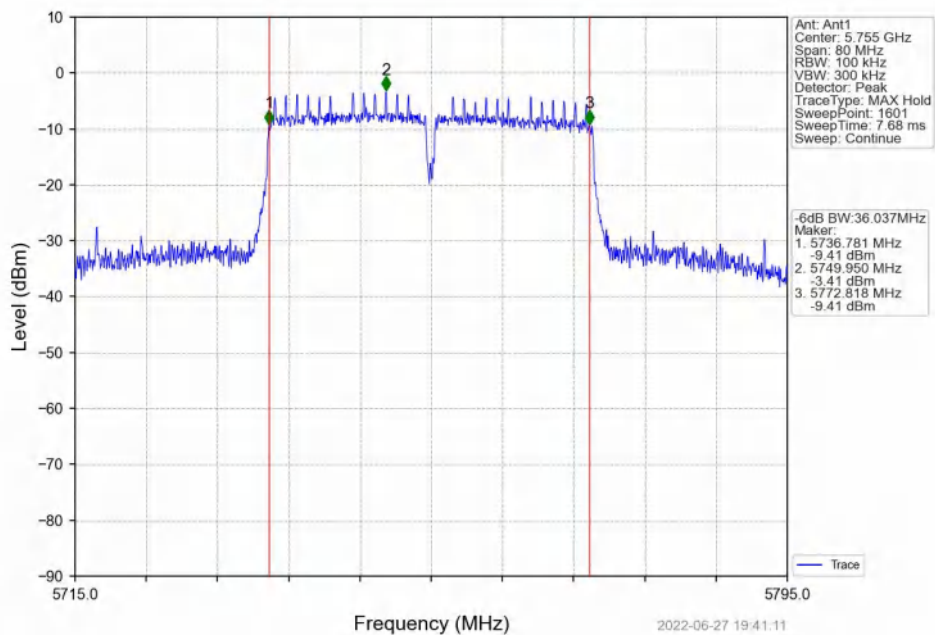
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



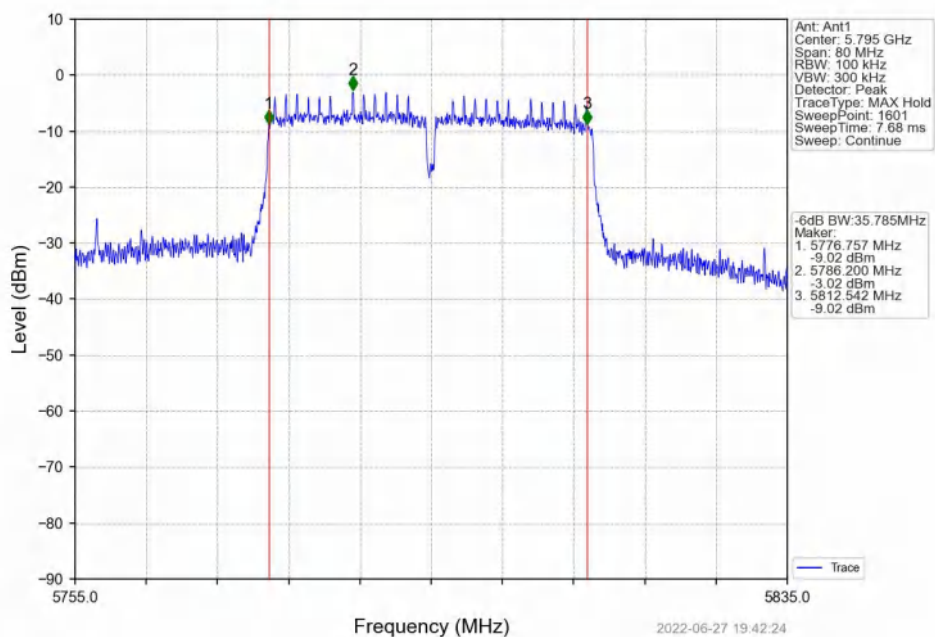
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



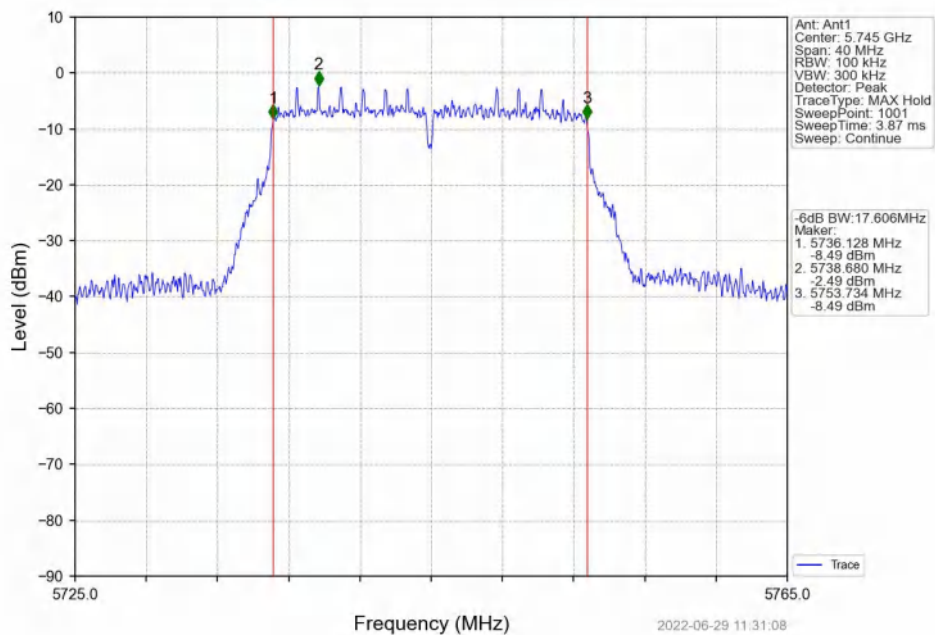
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



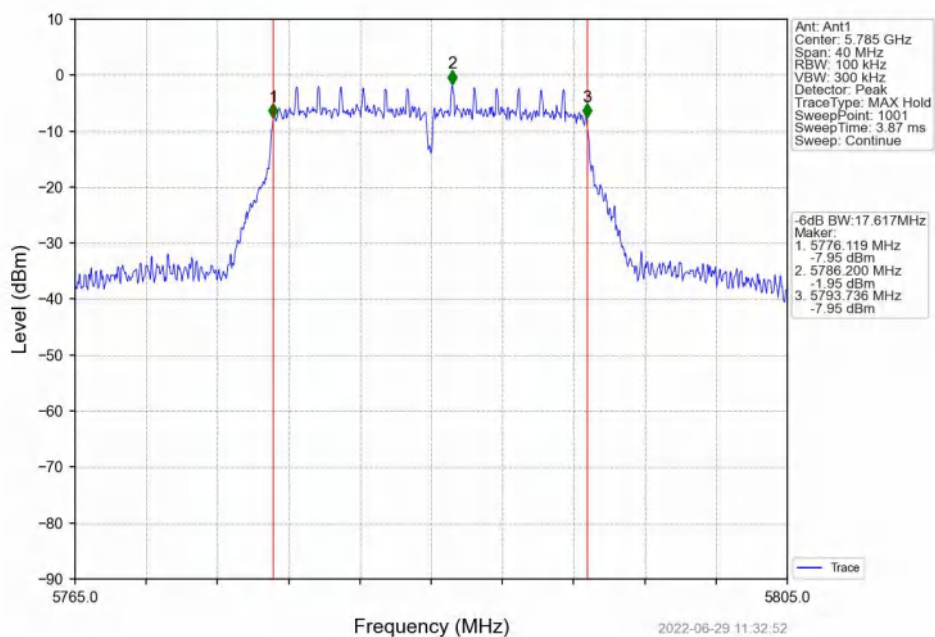
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



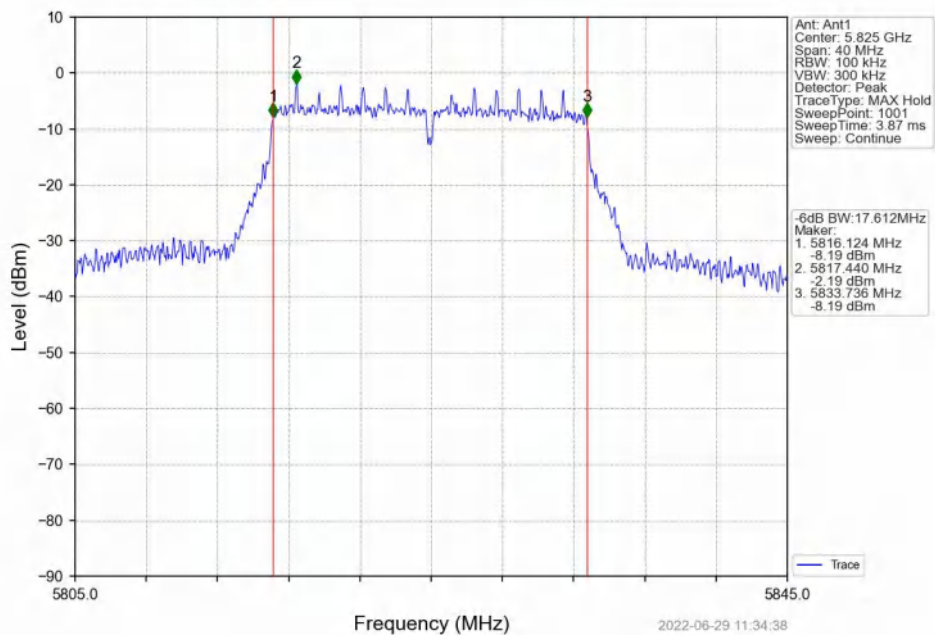
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



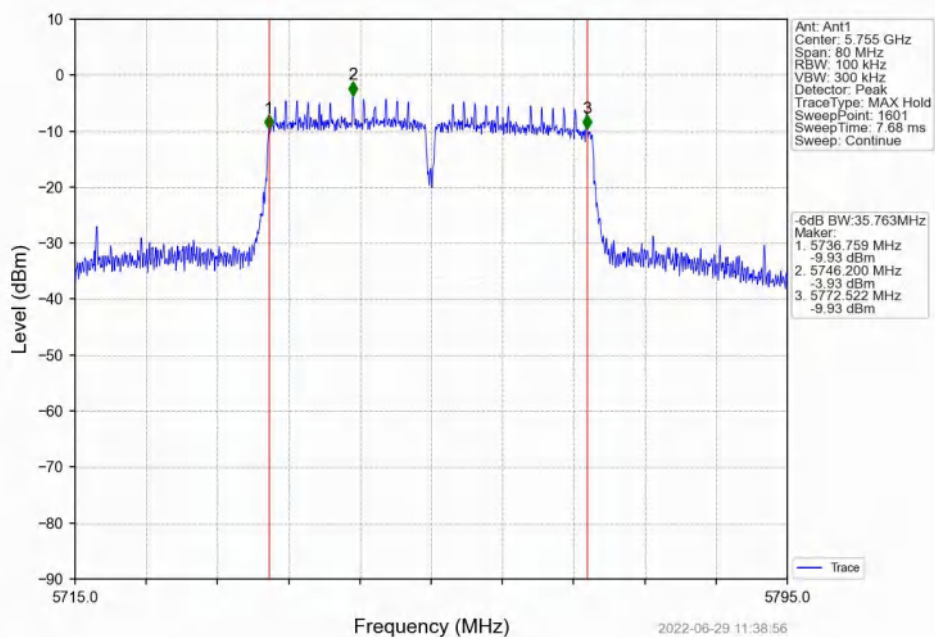
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



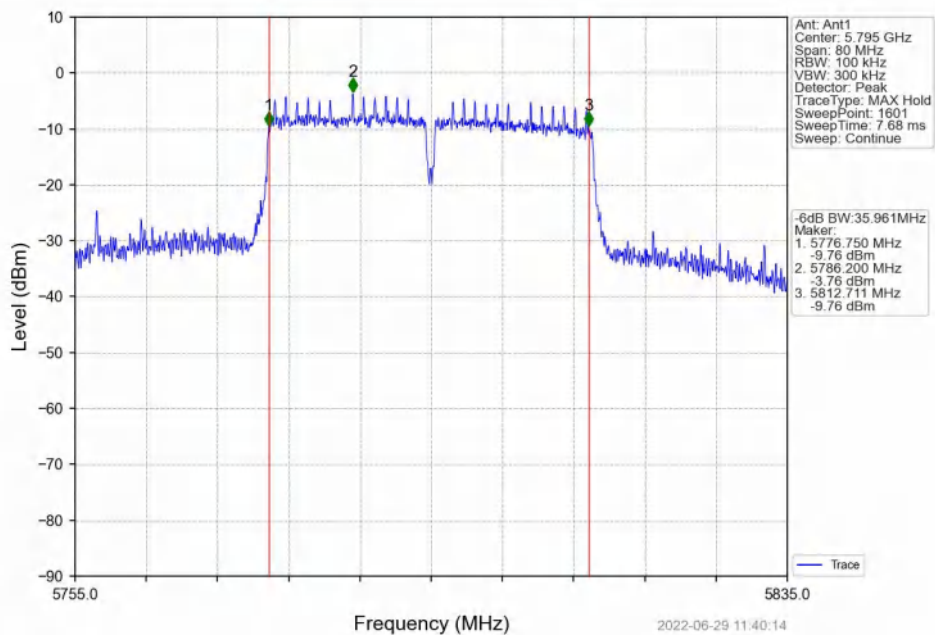
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



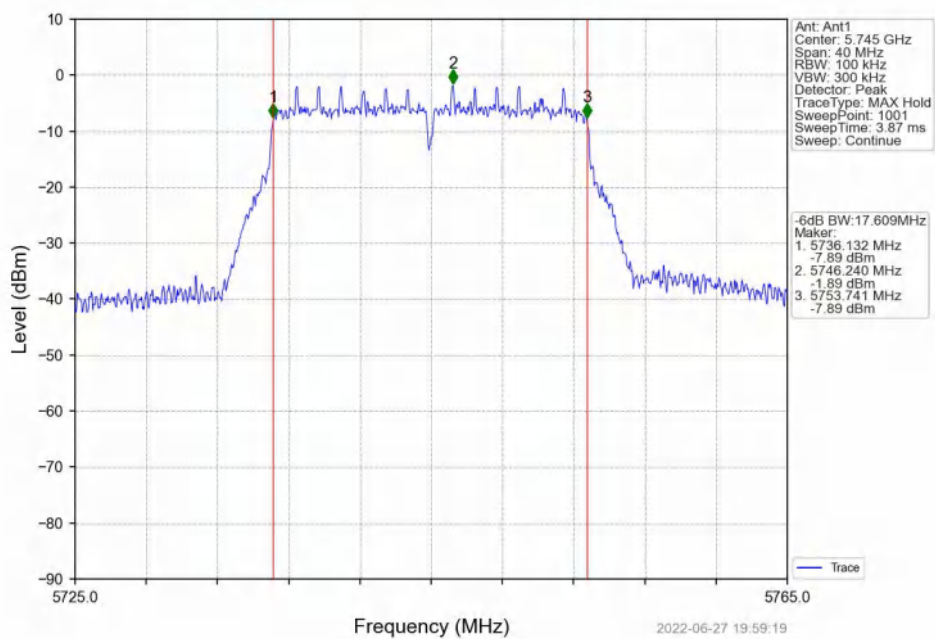
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



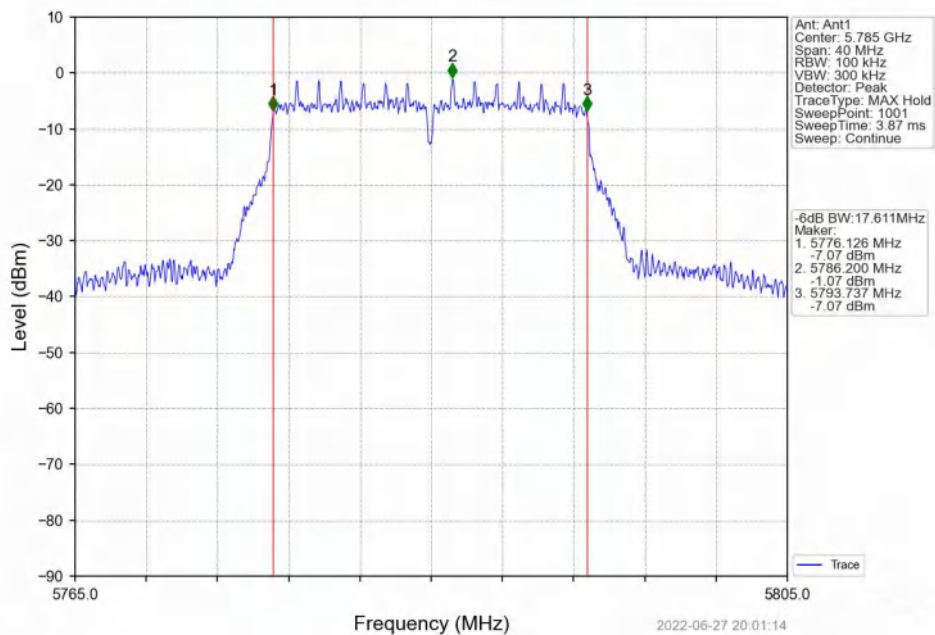
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



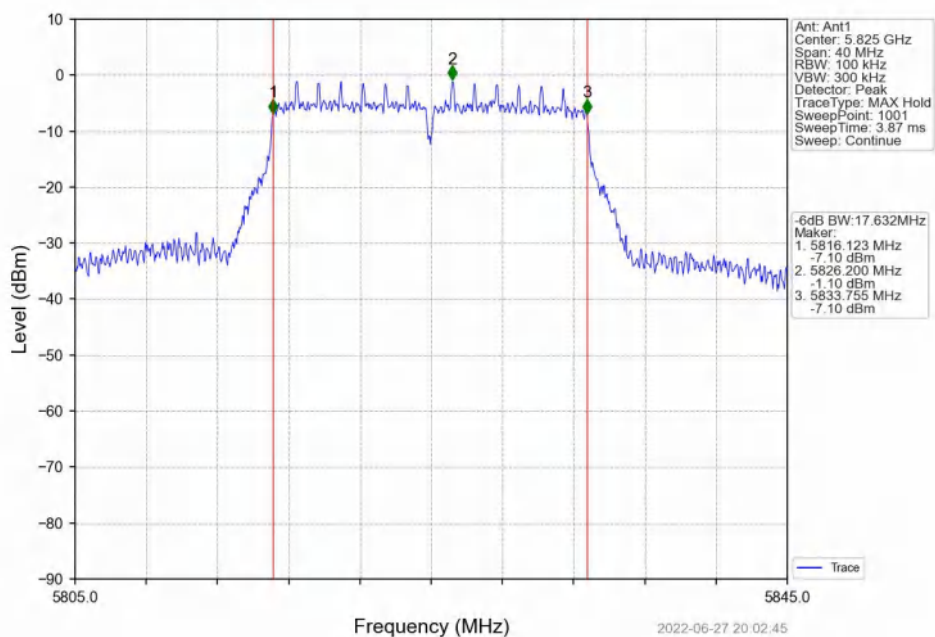
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



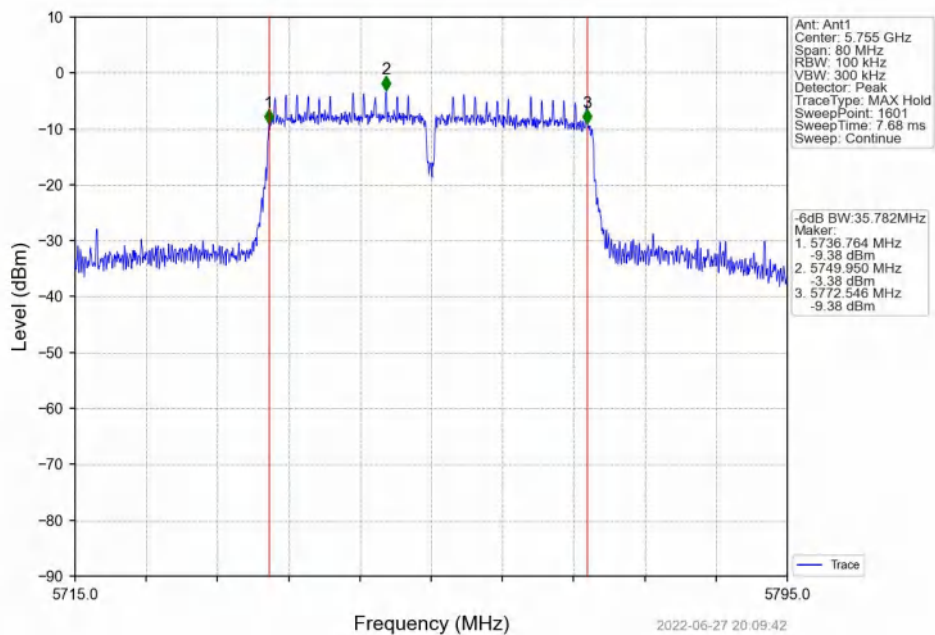
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



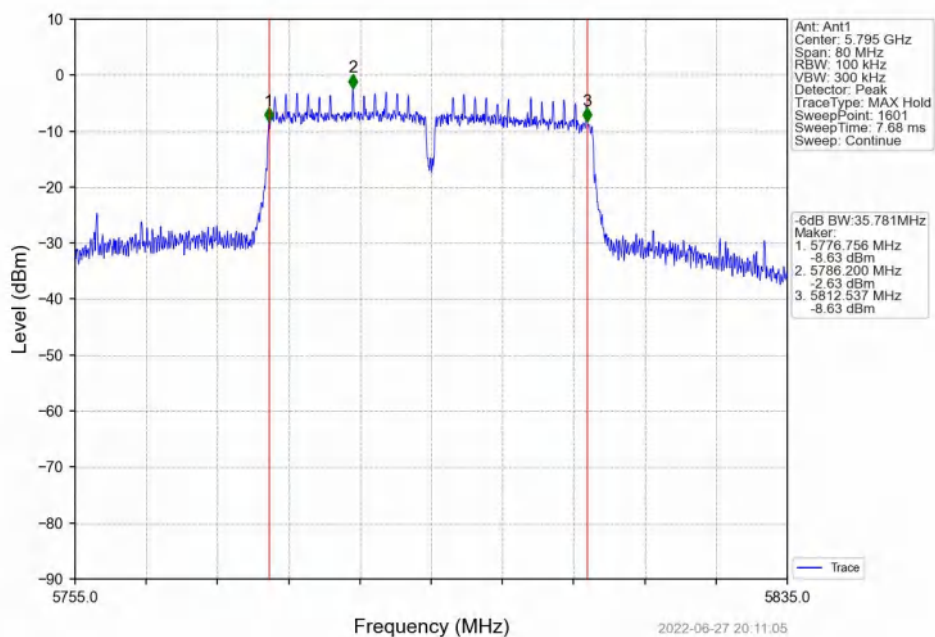
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



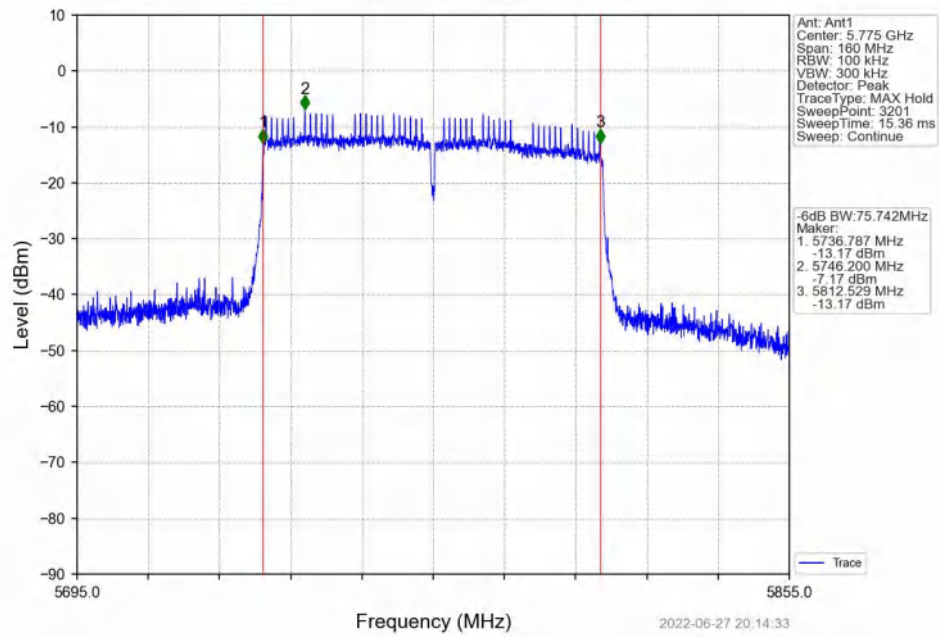
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



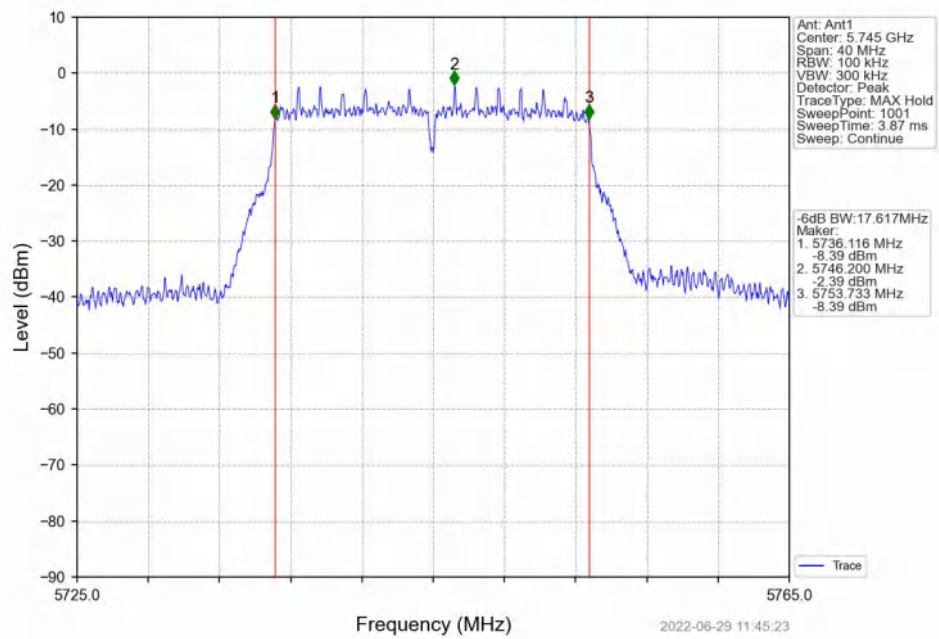
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



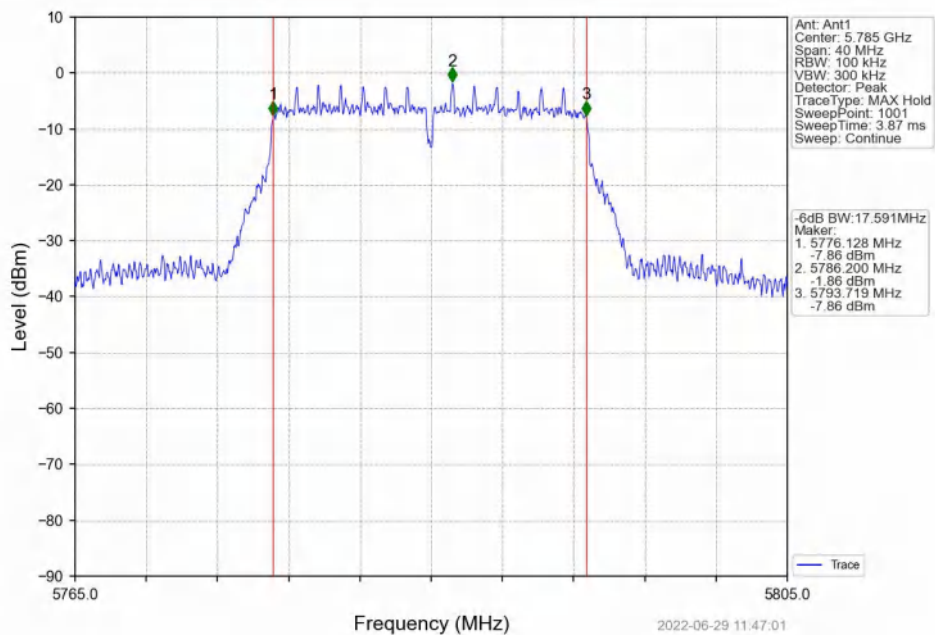
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



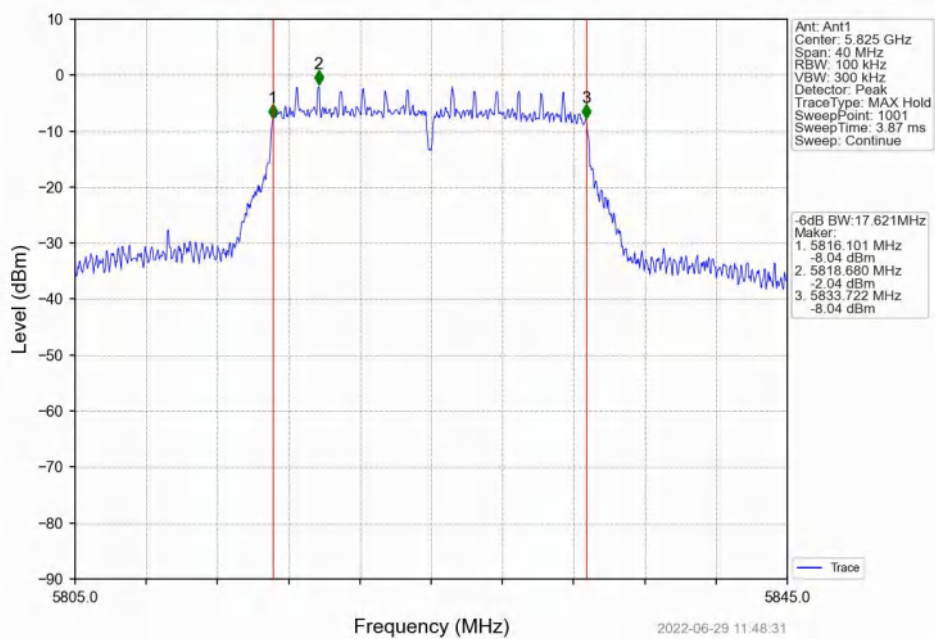
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



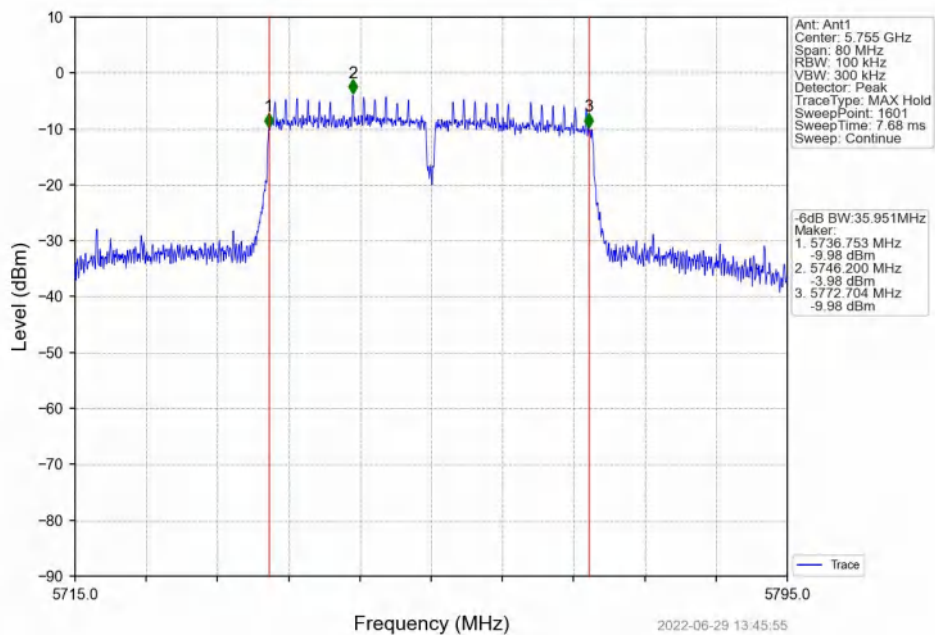
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



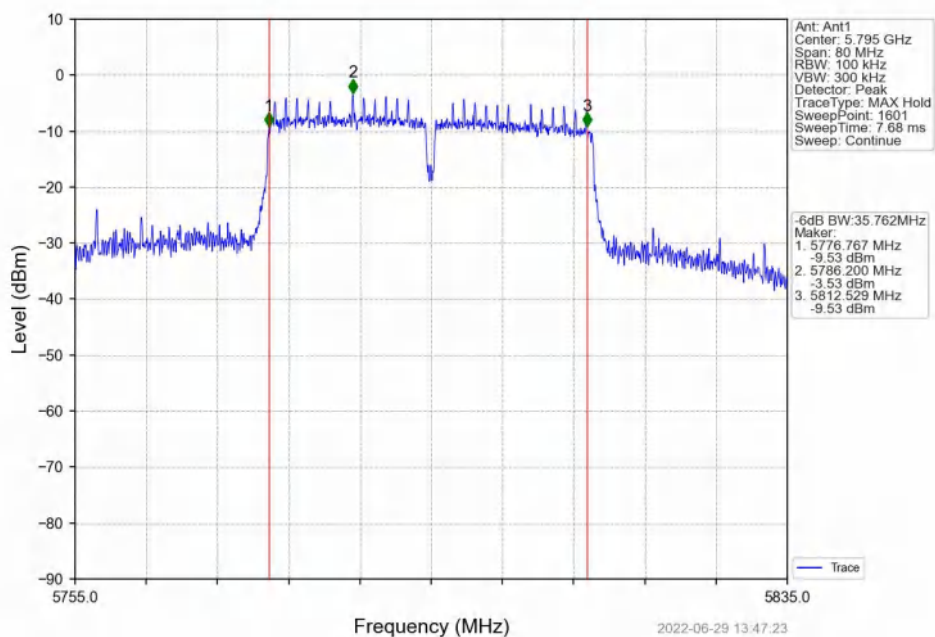
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



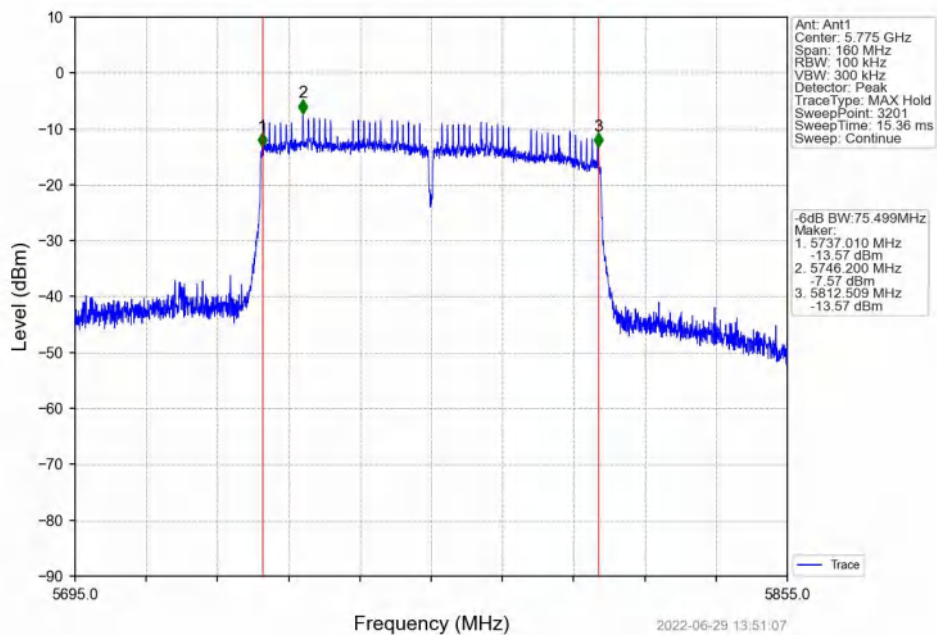
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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



### 3. Maximum Conducted Output Power

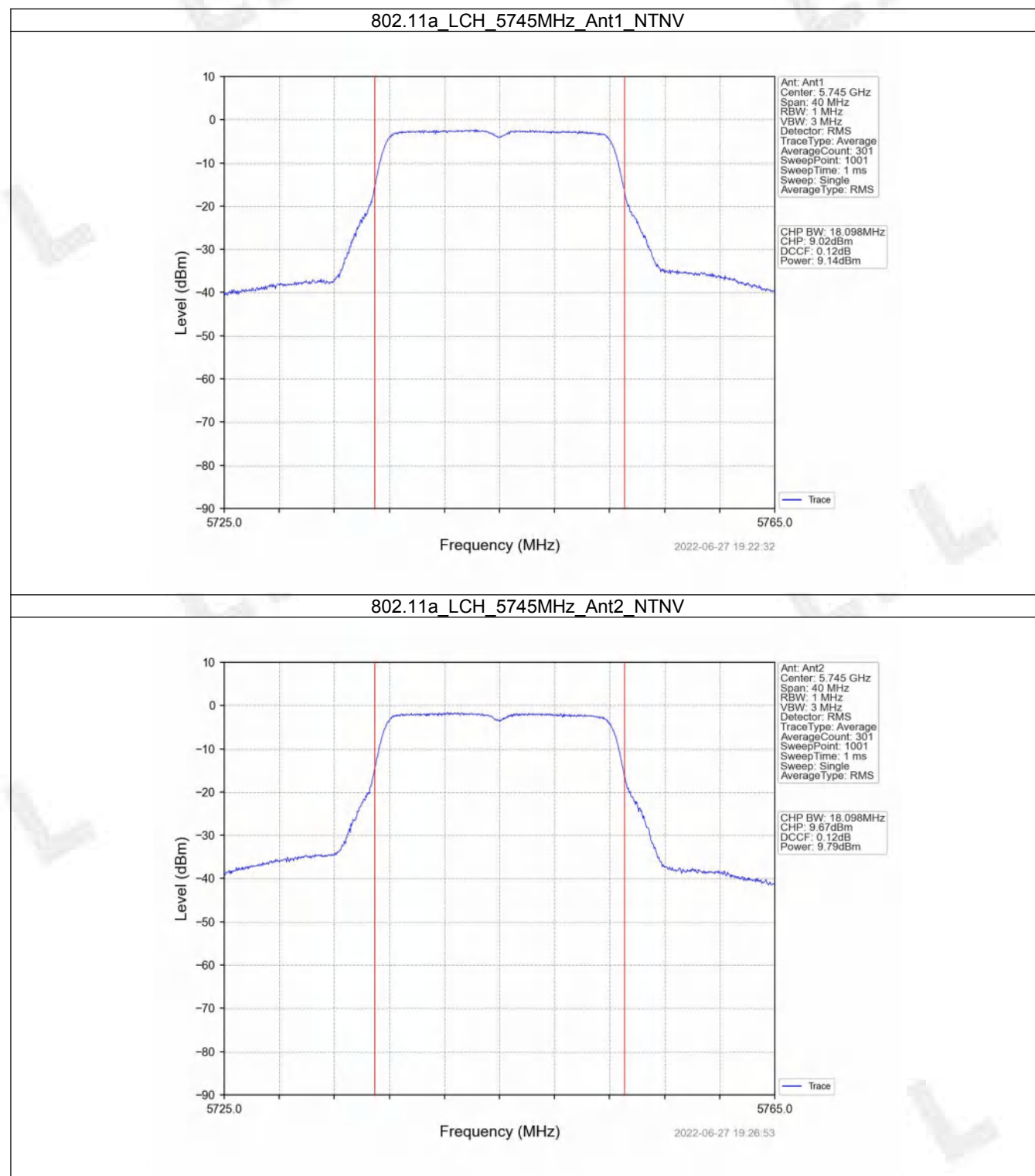
### 3.1 Power

### 3.1.1 Test Result

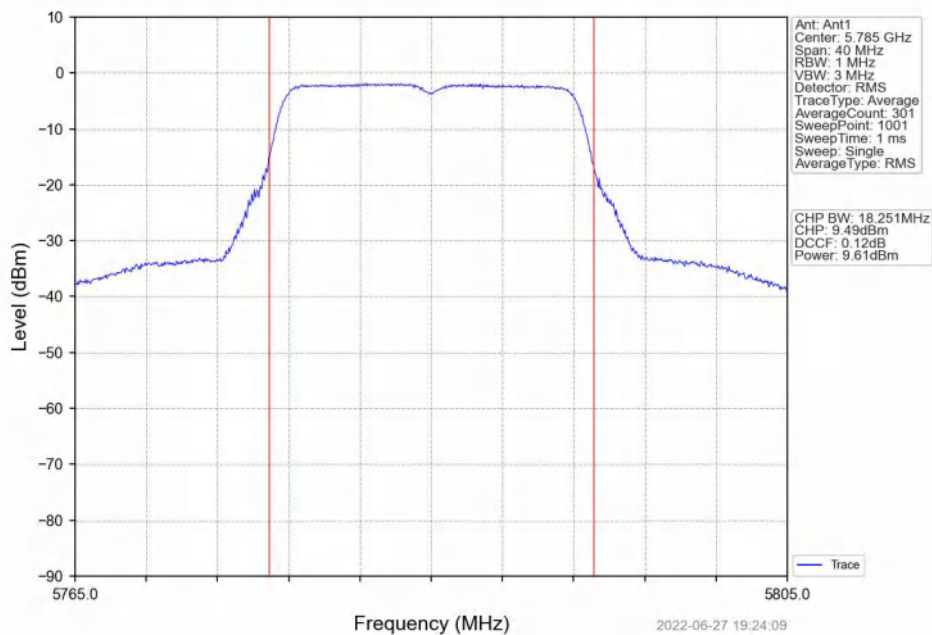
| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | Verdict |
|------------------|---------|-----------------|----------------------------------------------|-------|-------|-------|---------|
|                  |         |                 | ANT1                                         | ANT2  | MIMO  | Limit |         |
| 802.11a          | SISO    | 5745            | 9.14                                         | 9.79  | /     | <=30  | Pass    |
|                  |         | 5785            | 9.61                                         | 10.01 | /     | <=30  | Pass    |
|                  |         | 5825            | 9.55                                         | 10.02 | /     | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 9.03                                         | 9.80  | /     | <=30  | Pass    |
|                  |         | 5785            | 9.39                                         | 9.97  | /     | <=30  | Pass    |
|                  |         | 5825            | 9.52                                         | 9.92  | /     | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 10.22                                        | 10.72 | /     | <=30  | Pass    |
|                  |         | 5795            | 10.34                                        | 10.82 | /     | <=30  | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | 8.44                                         | 9.30  | 11.90 | <=30  | Pass    |
|                  |         | 5785            | 8.79                                         | 9.29  | 12.06 | <=30  | Pass    |
|                  |         | 5825            | 8.34                                         | 8.81  | 11.59 | <=30  | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | 9.26                                         | 10.03 | 12.67 | <=30  | Pass    |
|                  |         | 5795            | 9.15                                         | 9.79  | 12.49 | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 9.01                                         | 9.68  | /     | <=30  | Pass    |
|                  |         | 5785            | 9.45                                         | 10.07 | /     | <=30  | Pass    |
|                  |         | 5825            | 9.50                                         | 9.89  | /     | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 10.19                                        | 10.71 | /     | <=30  | Pass    |
|                  |         | 5795            | 10.51                                        | 10.86 | /     | <=30  | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 8.69                                         | 9.26  | /     | <=30  | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | 8.46                                         | 9.23  | 11.87 | <=30  | Pass    |
|                  |         | 5785            | 8.65                                         | 9.35  | 12.02 | <=30  | Pass    |
|                  |         | 5825            | 8.37                                         | 8.79  | 11.60 | <=30  | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | 9.23                                         | 9.86  | 12.57 | <=30  | Pass    |
|                  |         | 5795            | 9.35                                         | 9.82  | 12.60 | <=30  | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | 7.50                                         | 8.10  | 10.82 | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 5.15dBi; Ant2: 3.89dBi;  
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

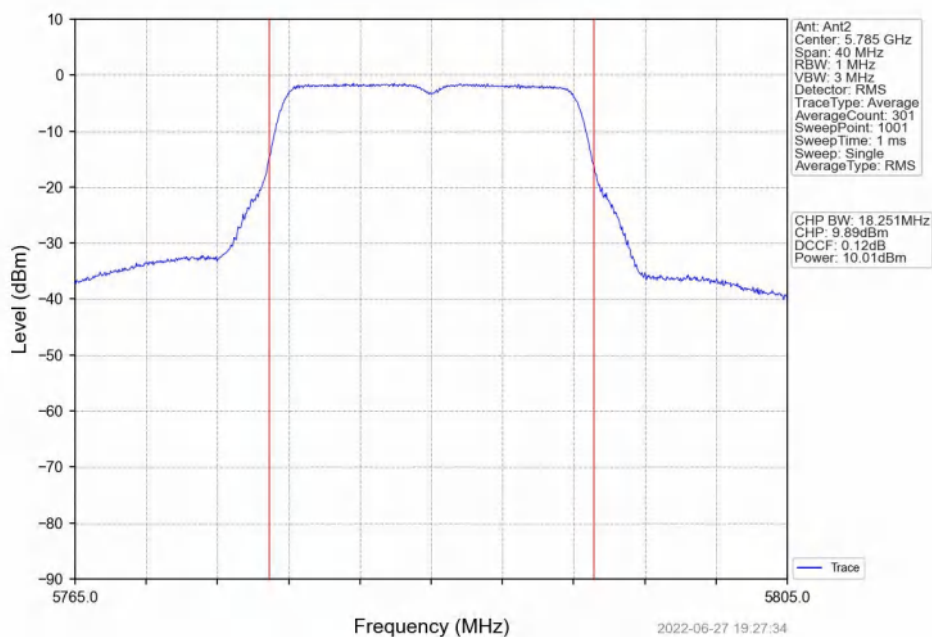
## 3.1.2 Test Graph



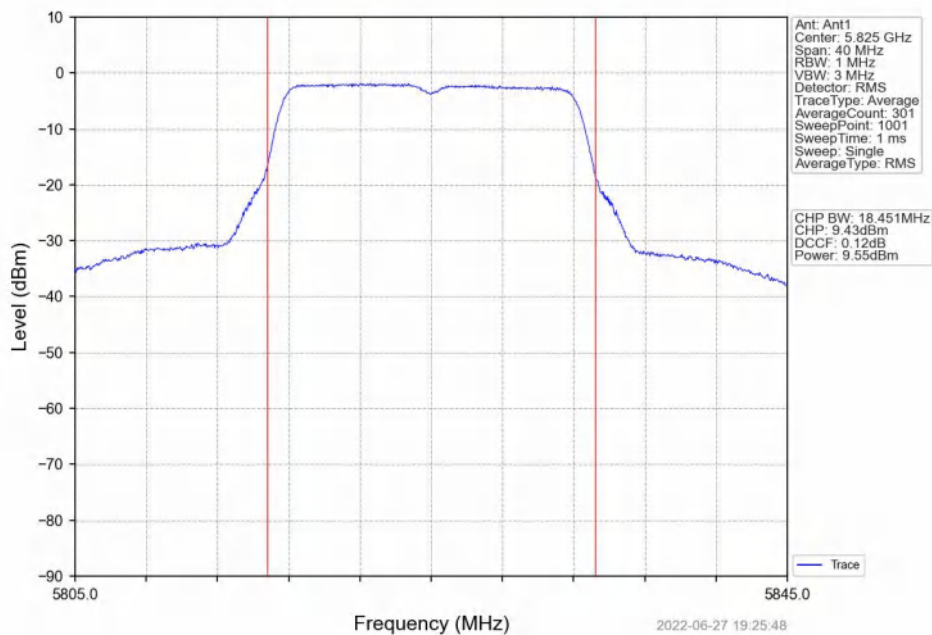
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



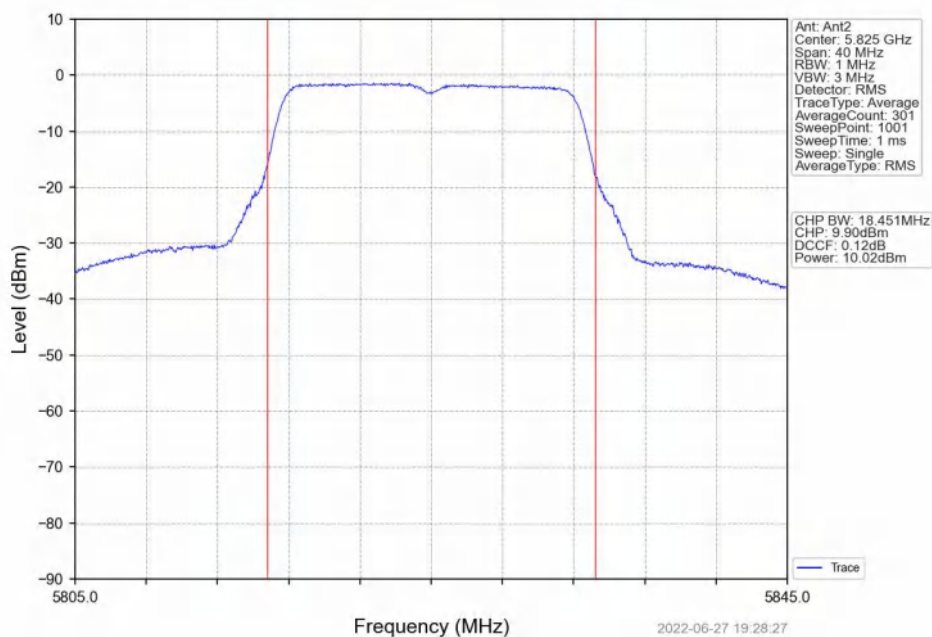
802.11a\_MCH\_5785MHz\_Ant2\_NTNV



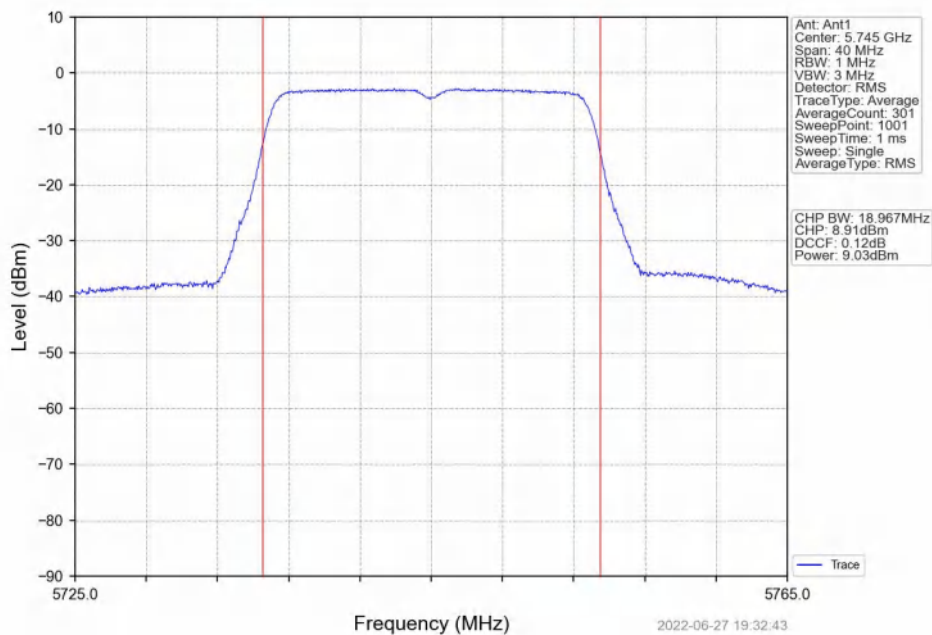
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



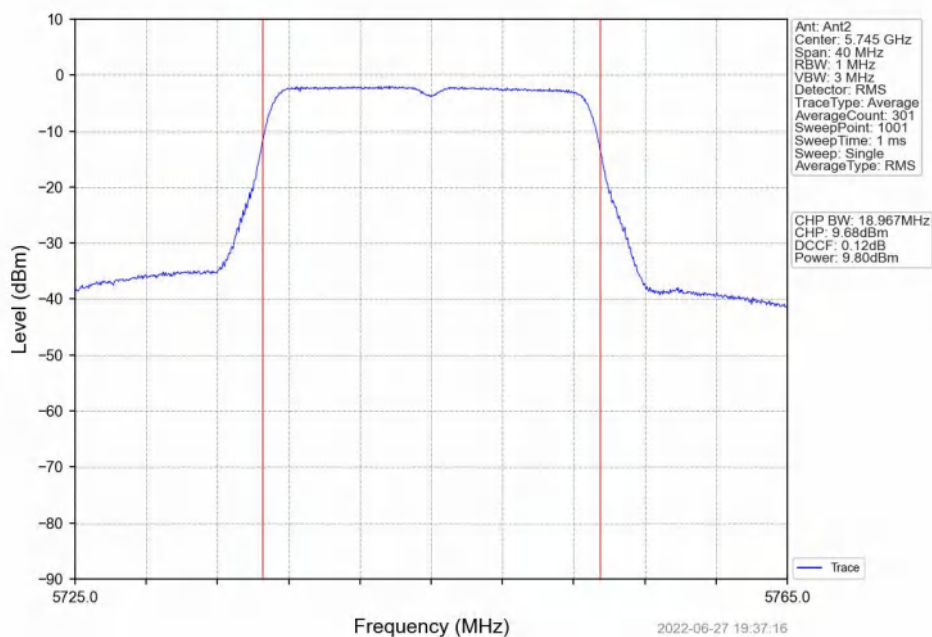
802.11a\_HCH\_5825MHz\_Ant2\_NTNV



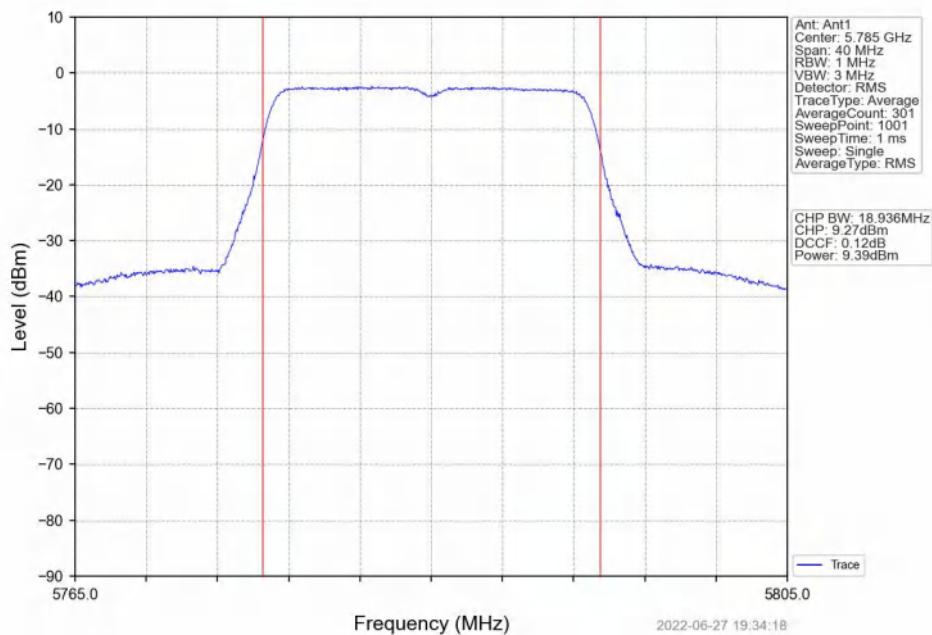
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



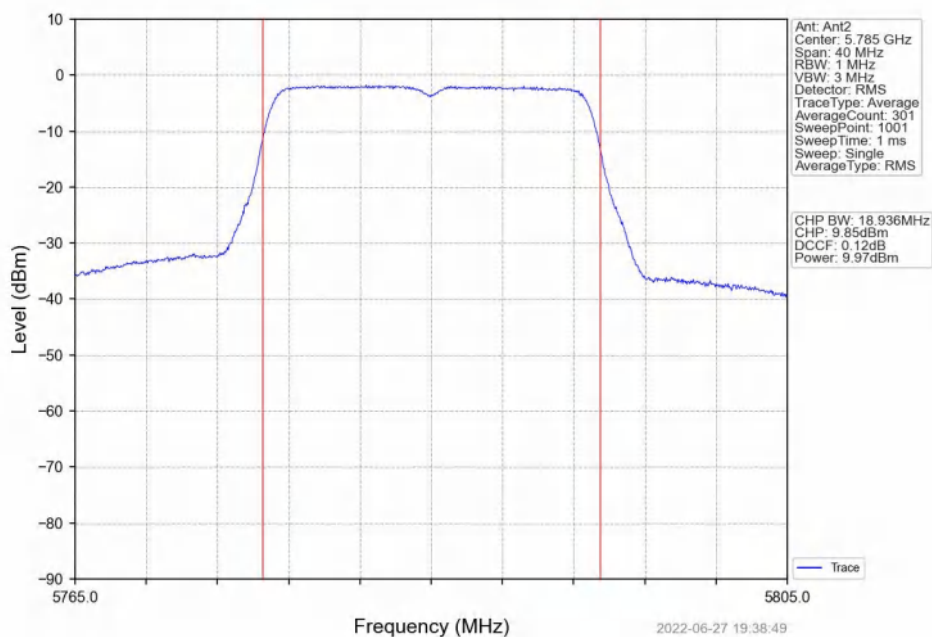
802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



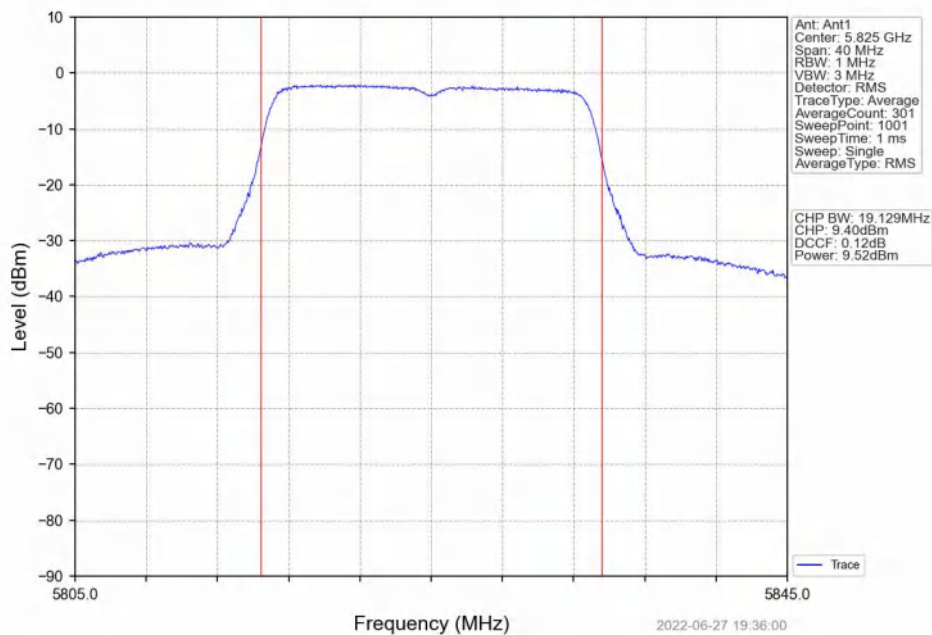
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



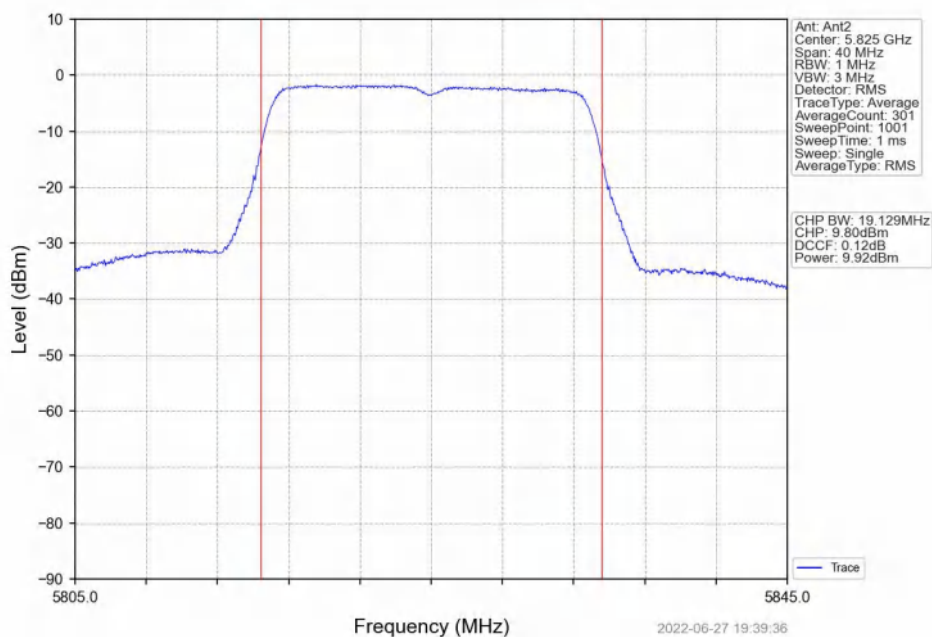
802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



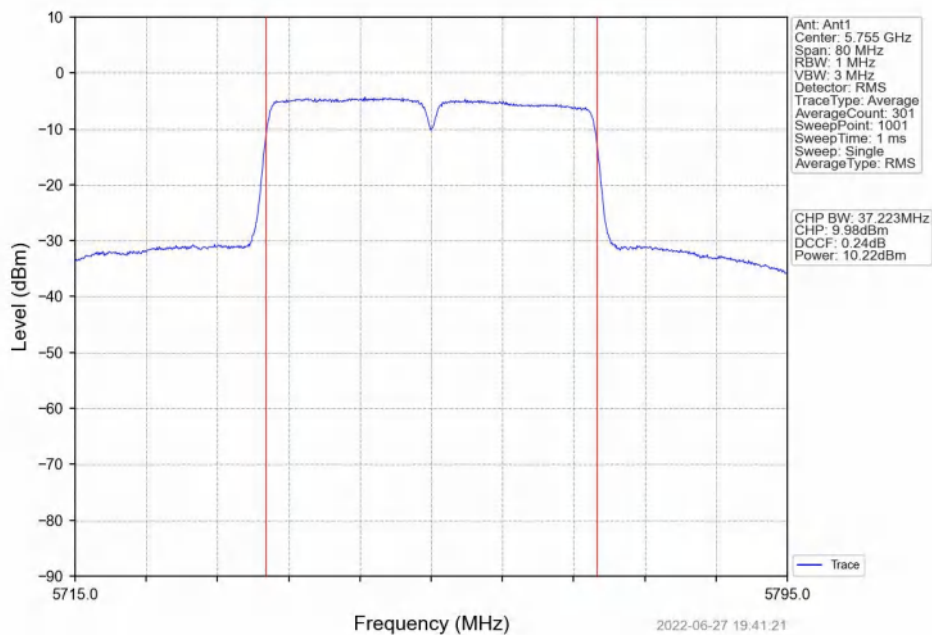
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



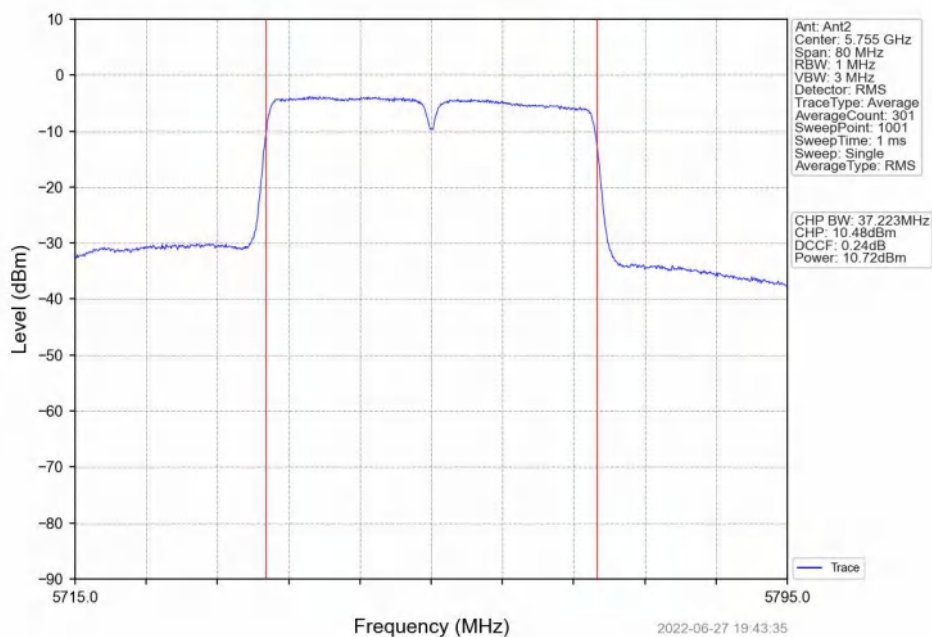
802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



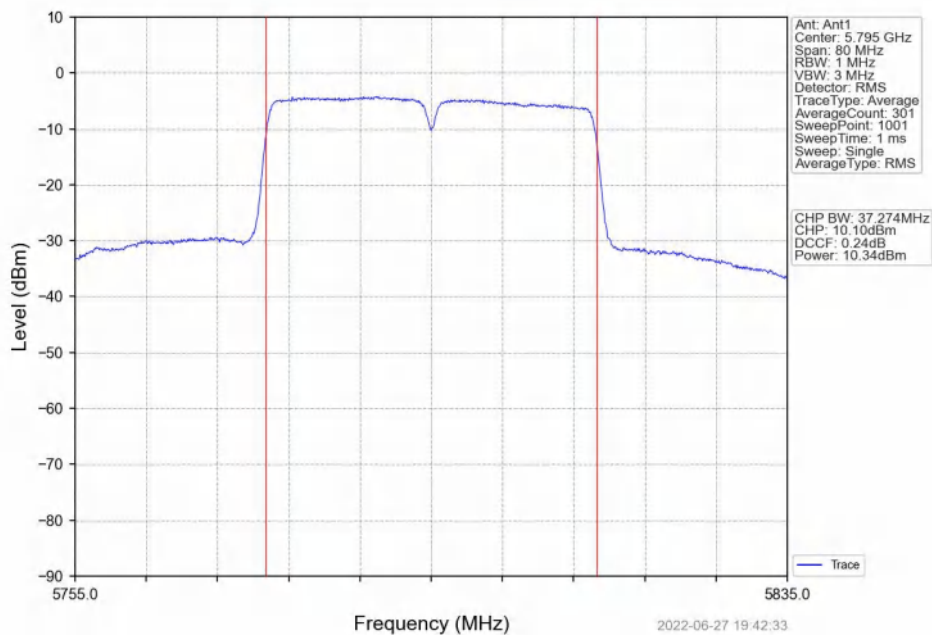
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



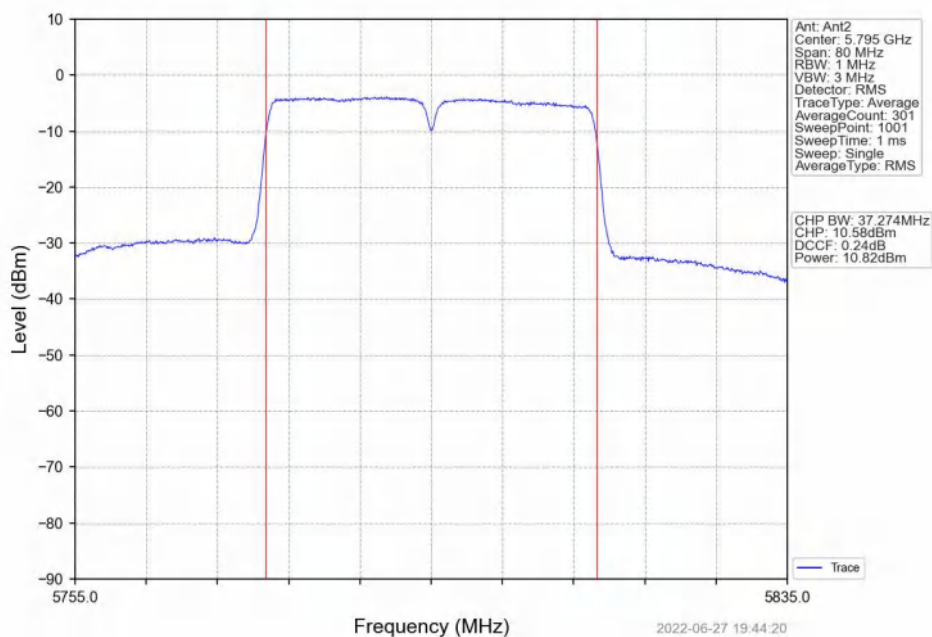
802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



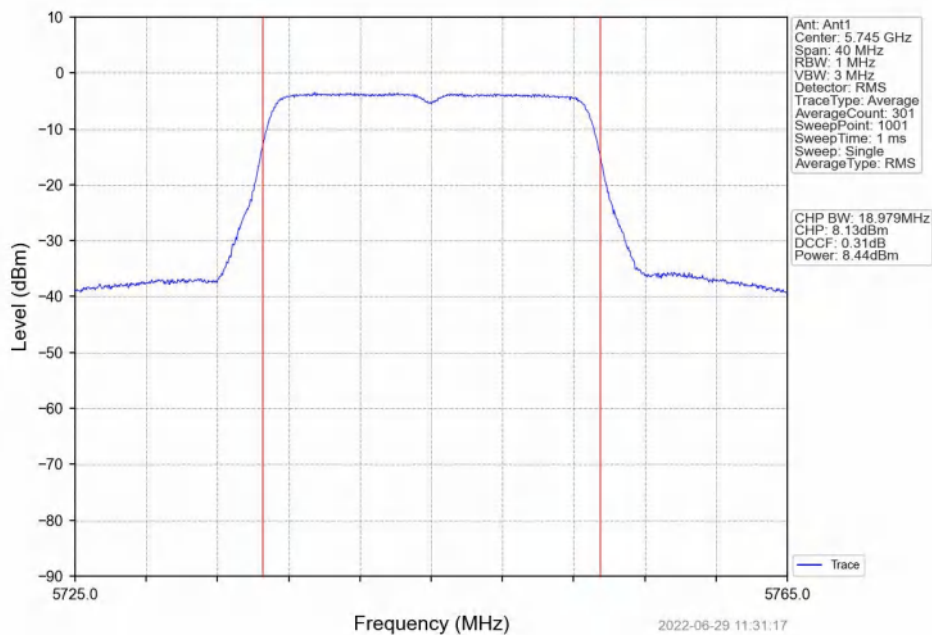
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



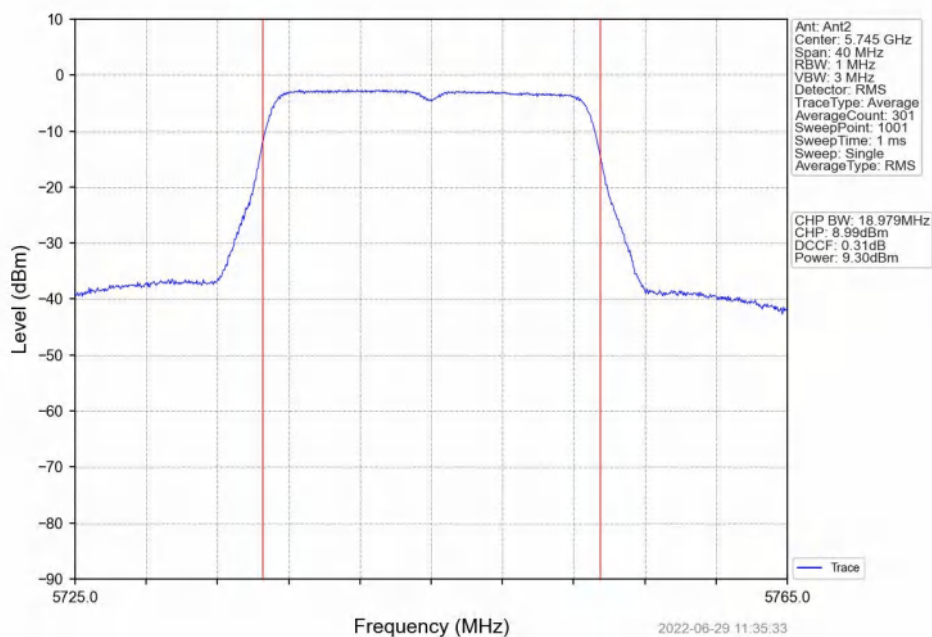
802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



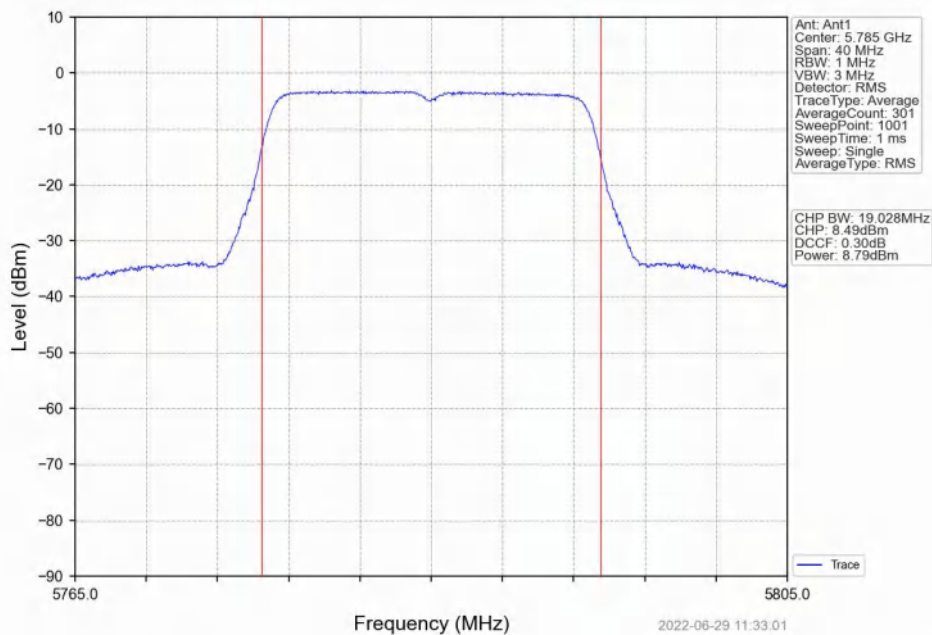
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



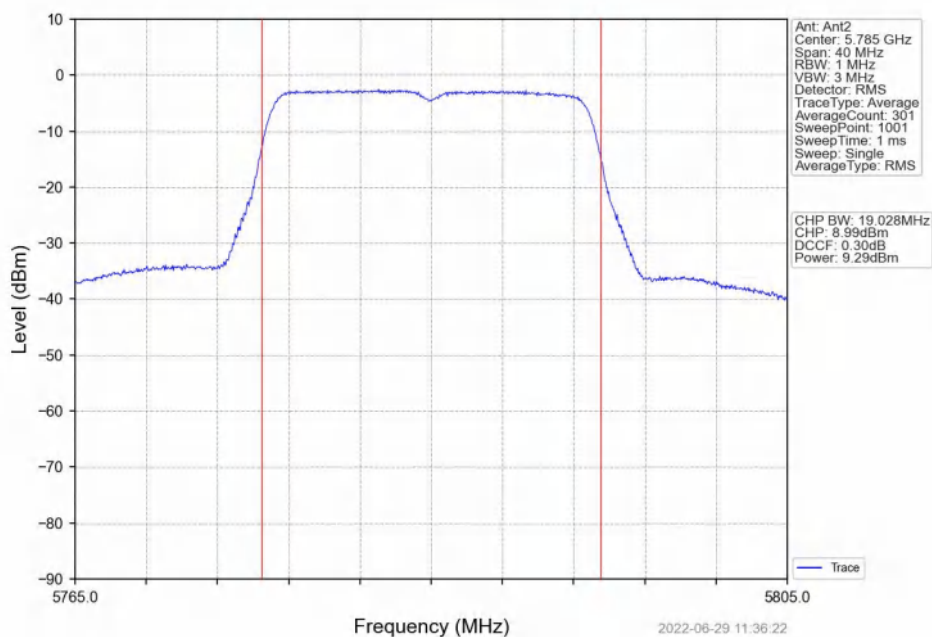
802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



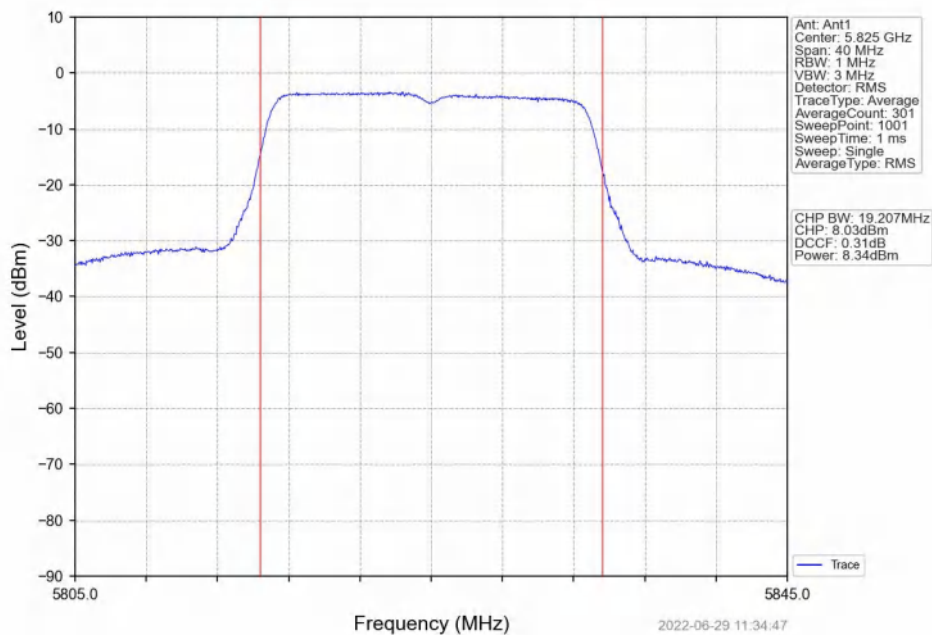
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



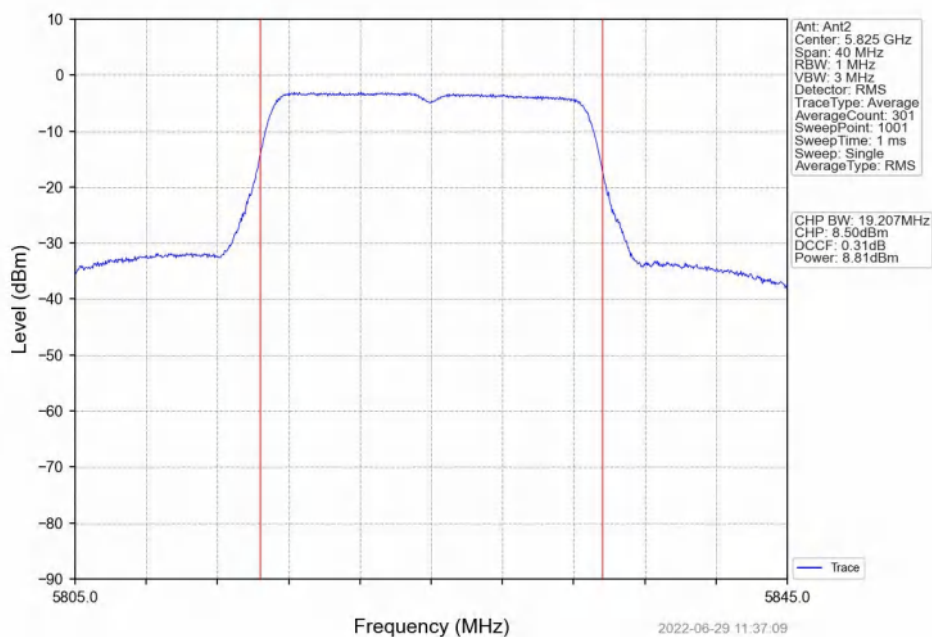
802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



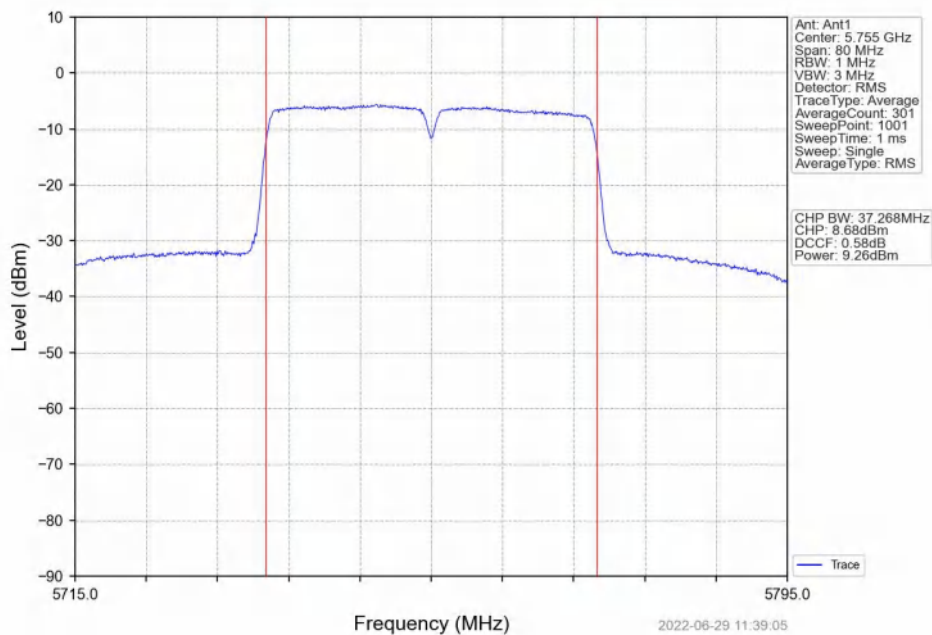
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



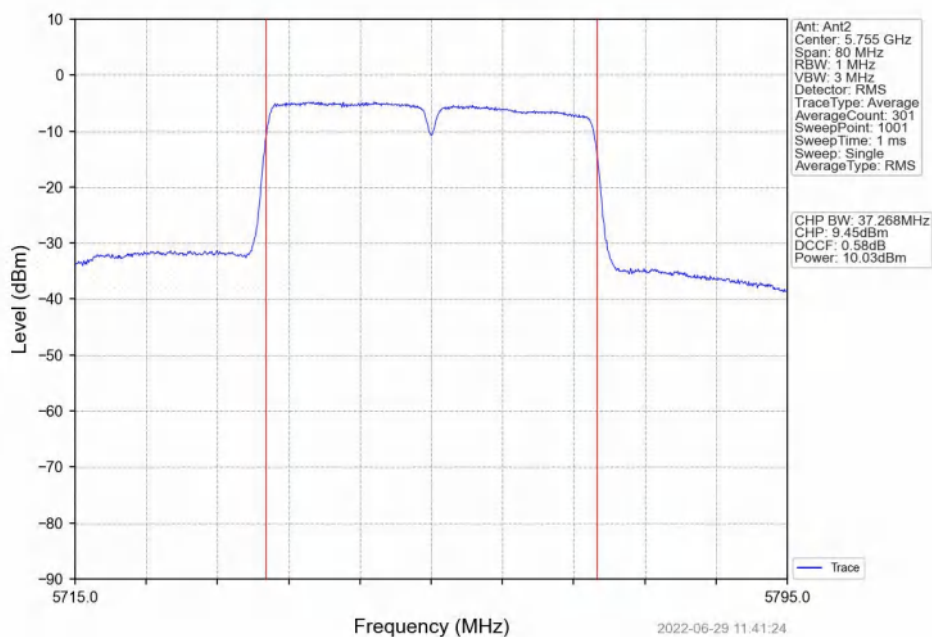
802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



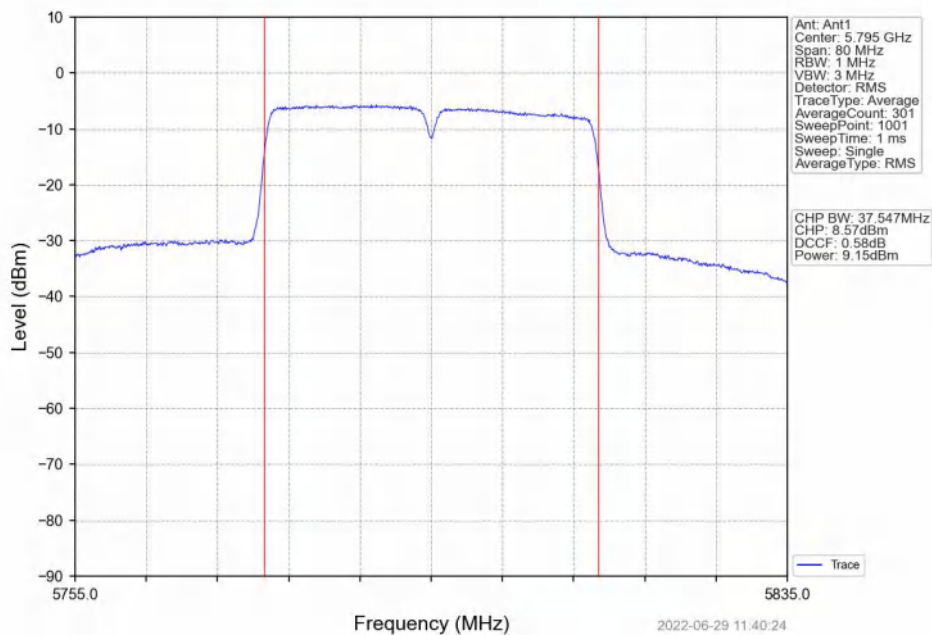
802.11n(HT40) LCH\_5755MHz\_Ant1\_NTNV



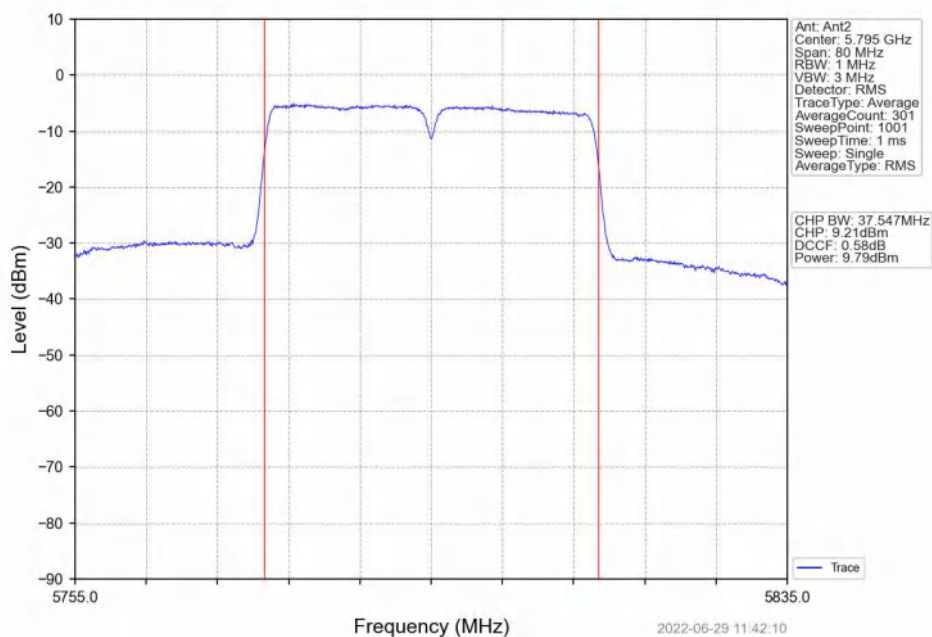
802.11n(HT40) LCH\_5755MHz\_Ant2\_NTNV



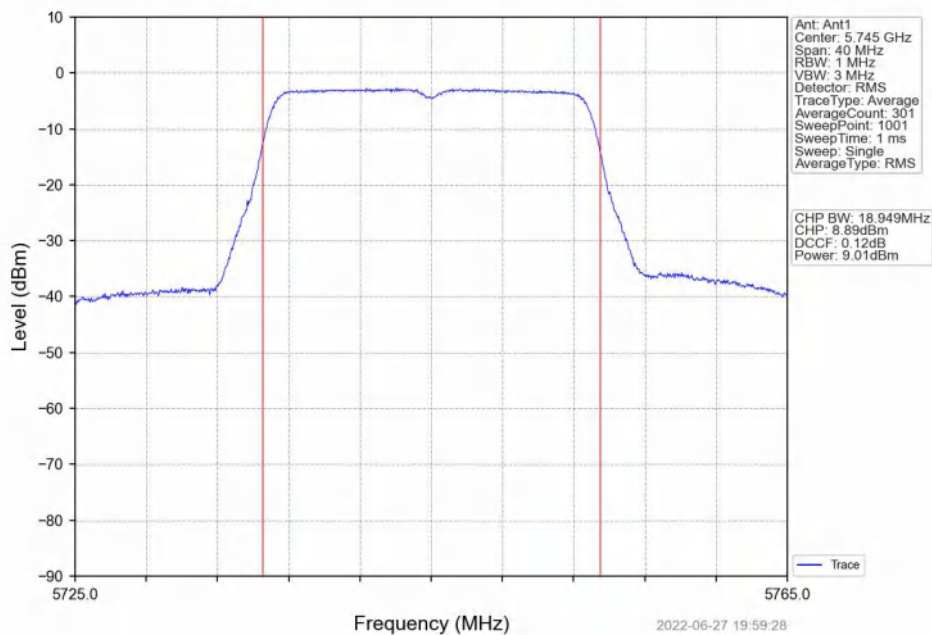
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



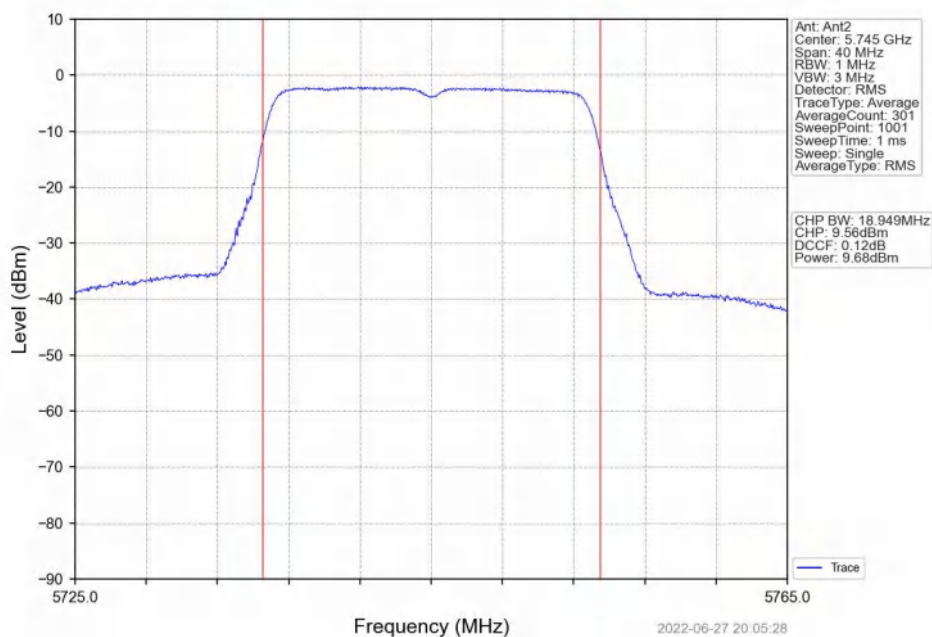
802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



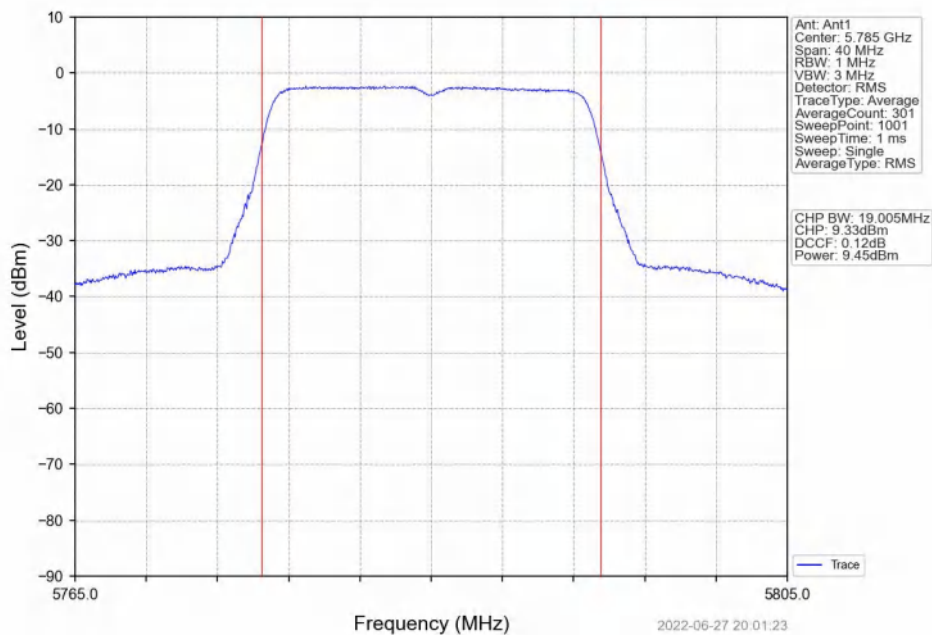
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



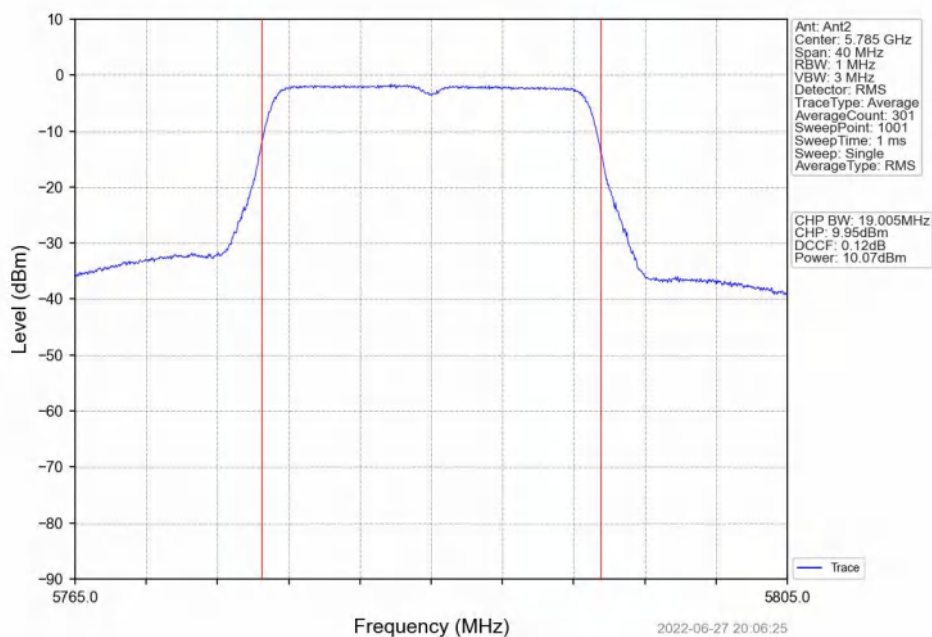
802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



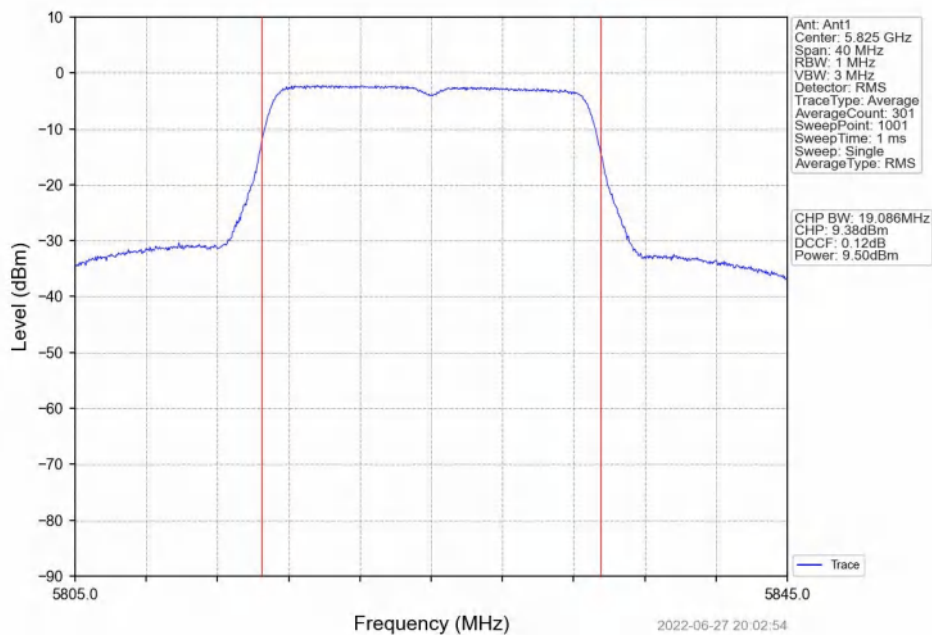
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



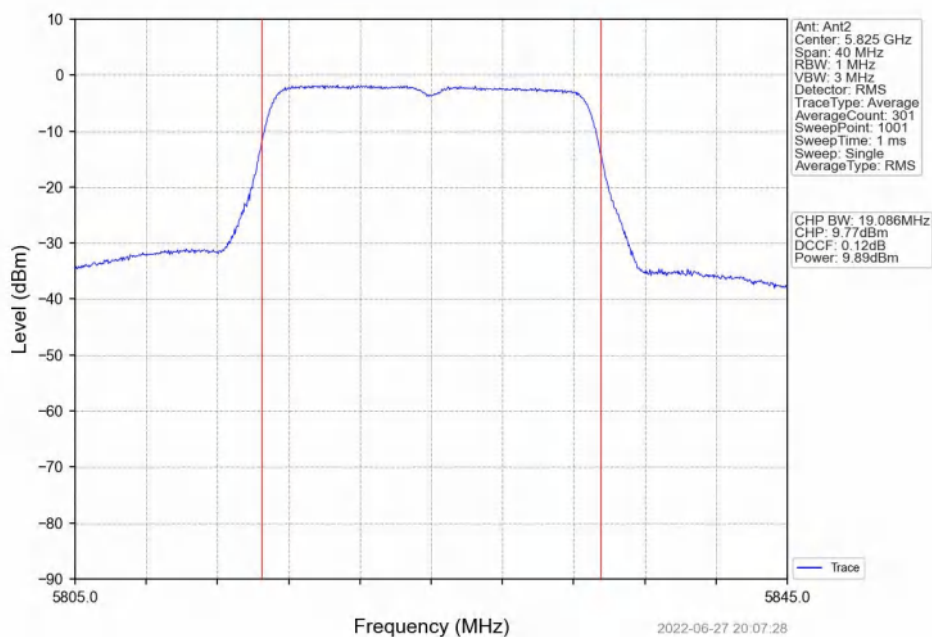
802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



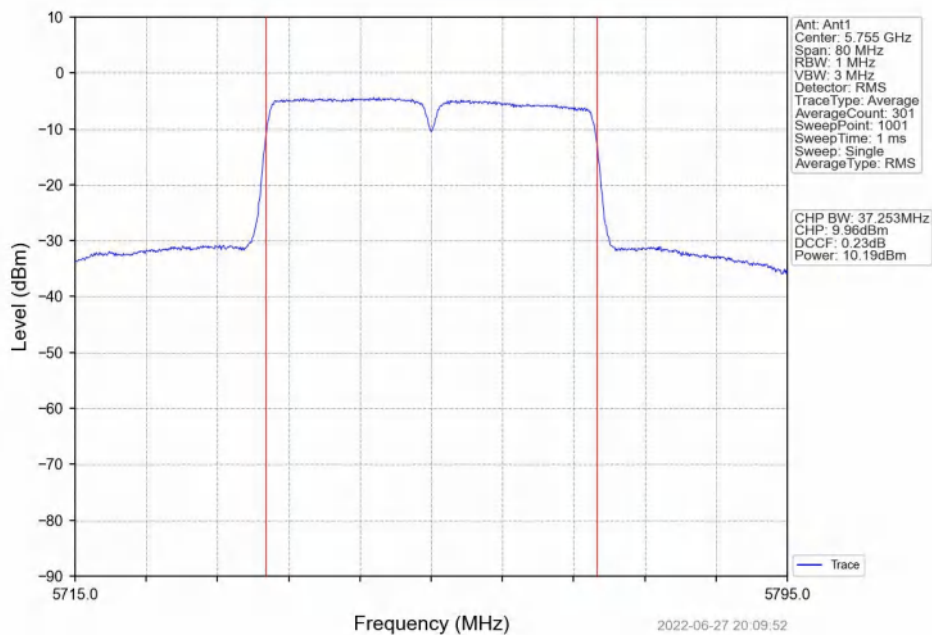
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



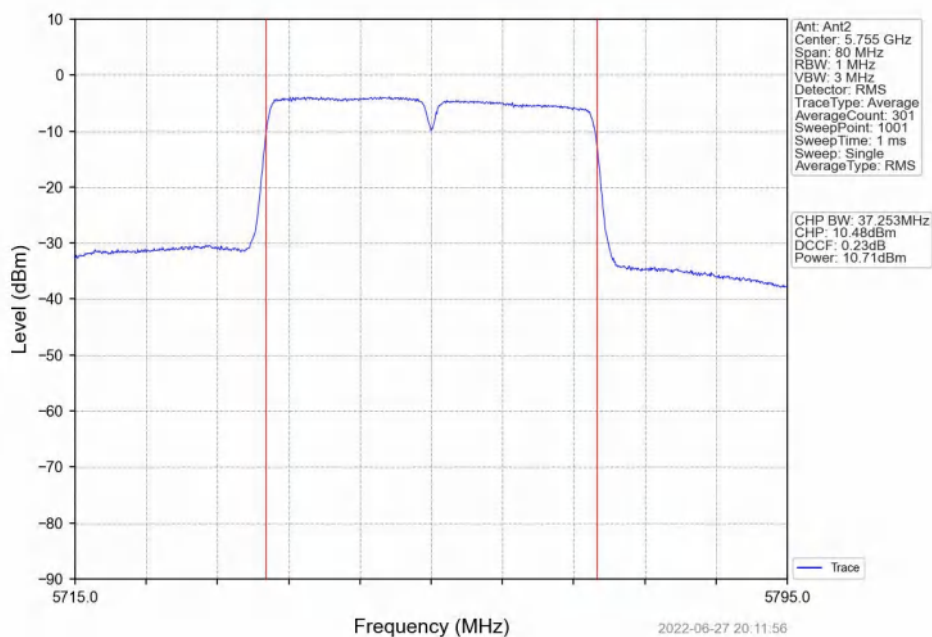
802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



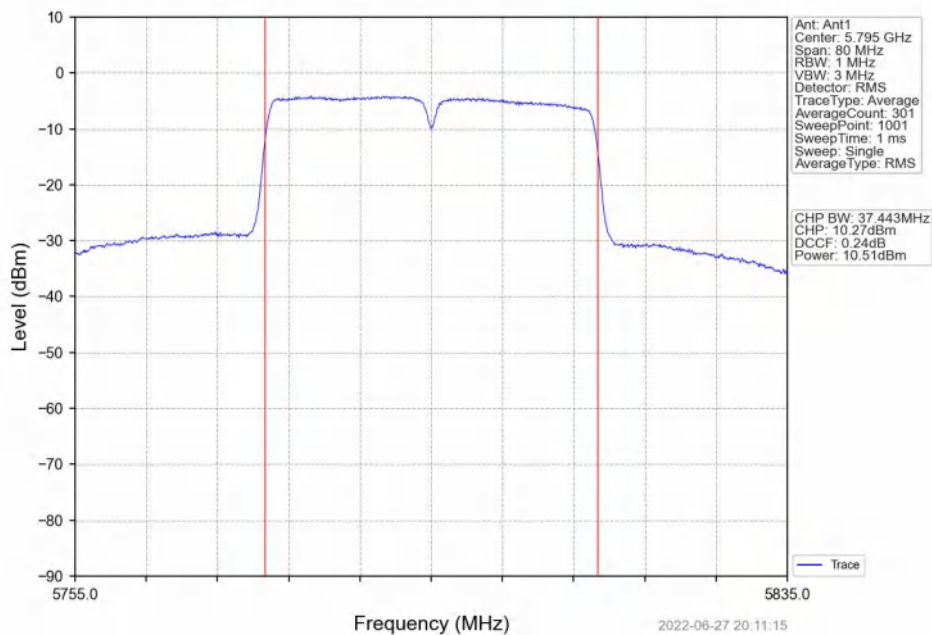
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



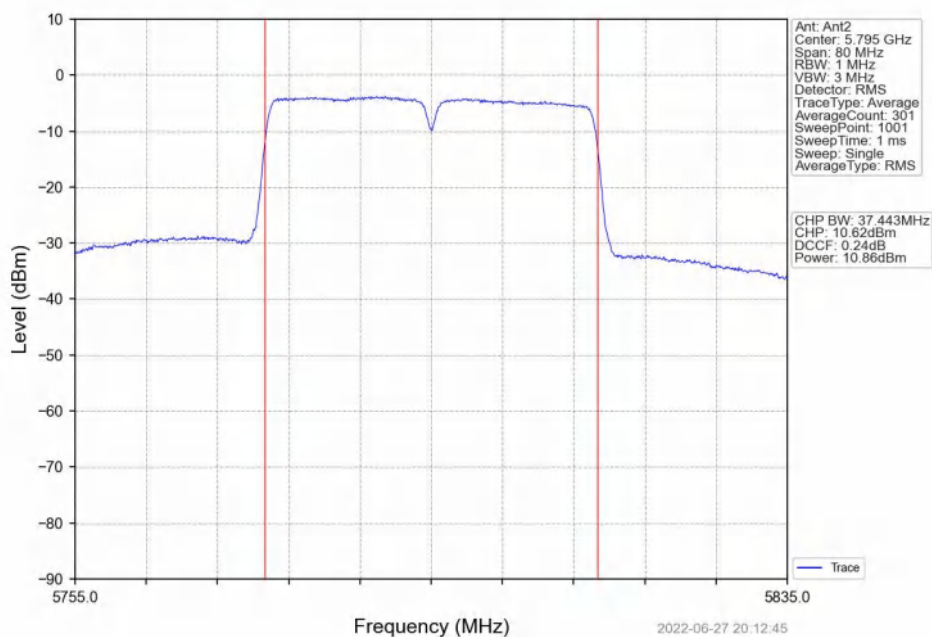
802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



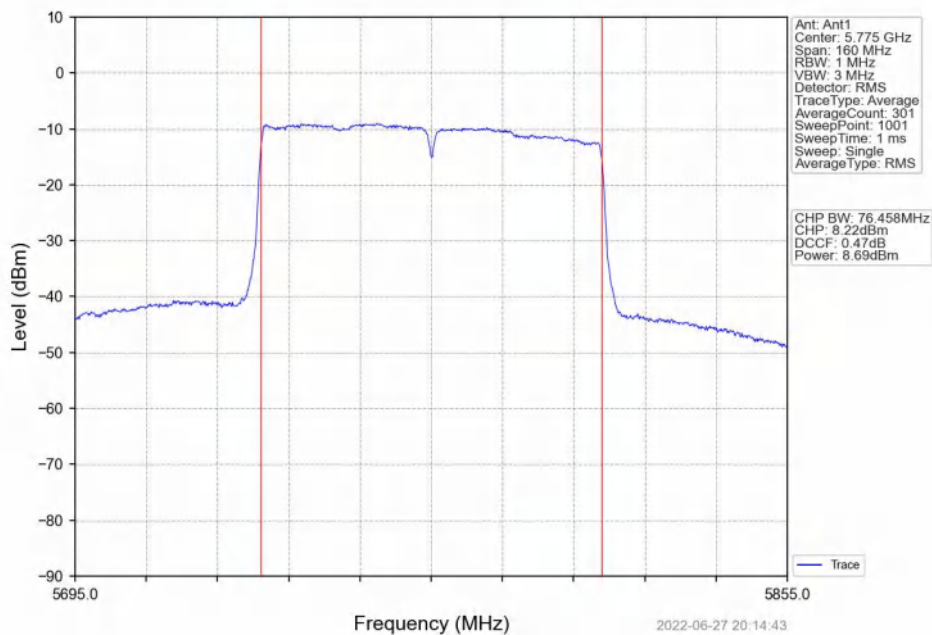
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



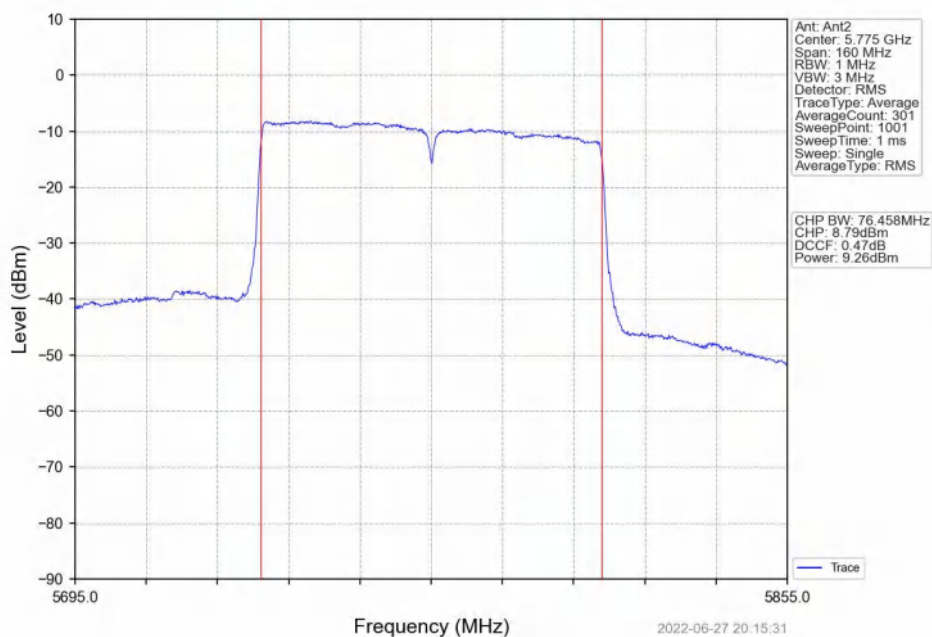
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



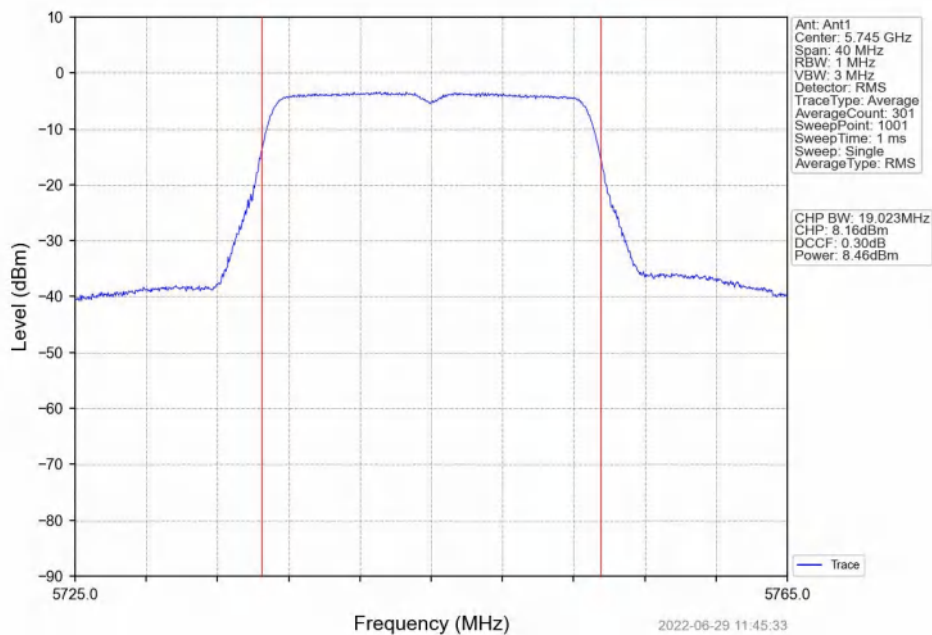
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



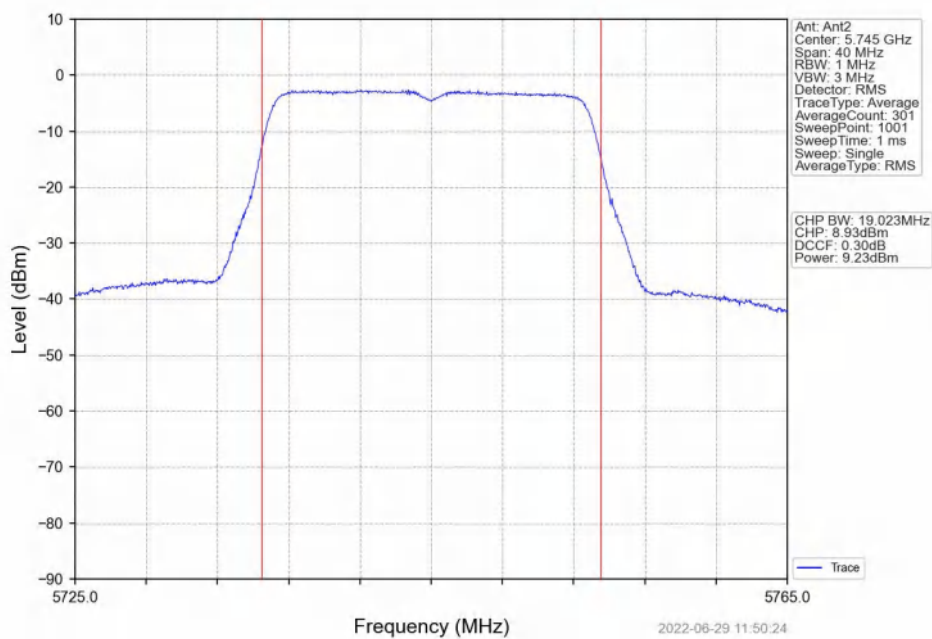
802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



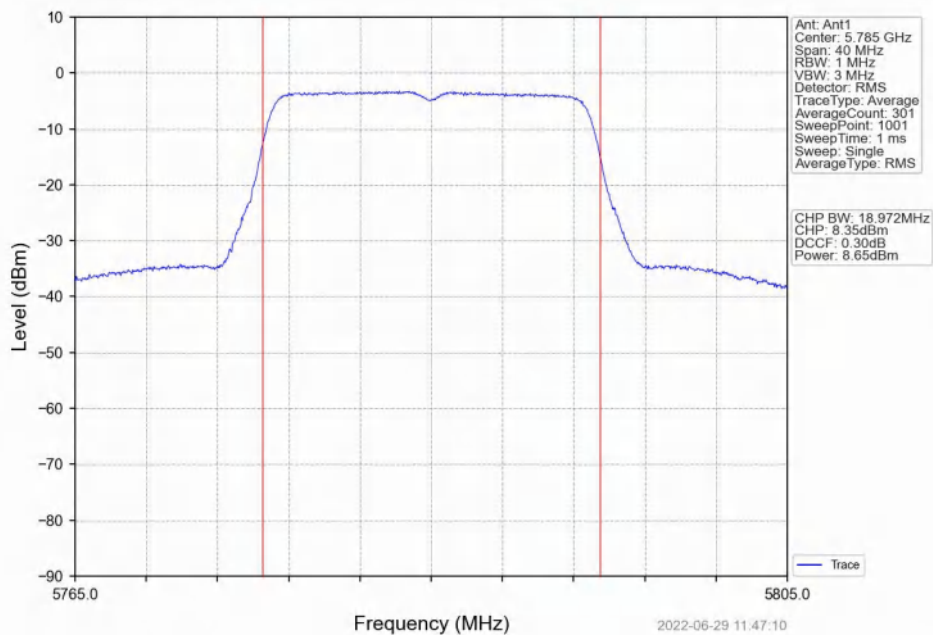
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



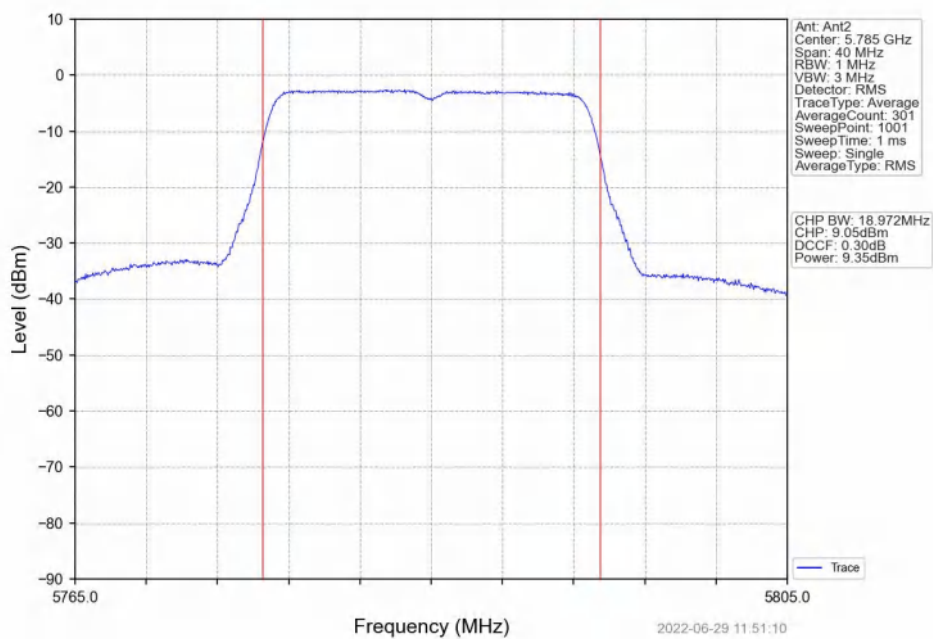
802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



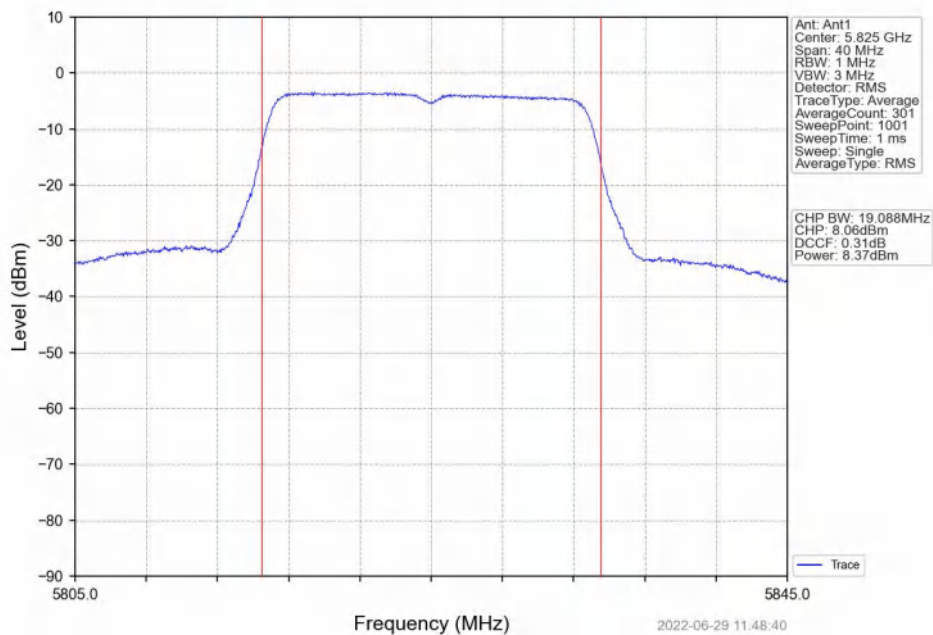
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



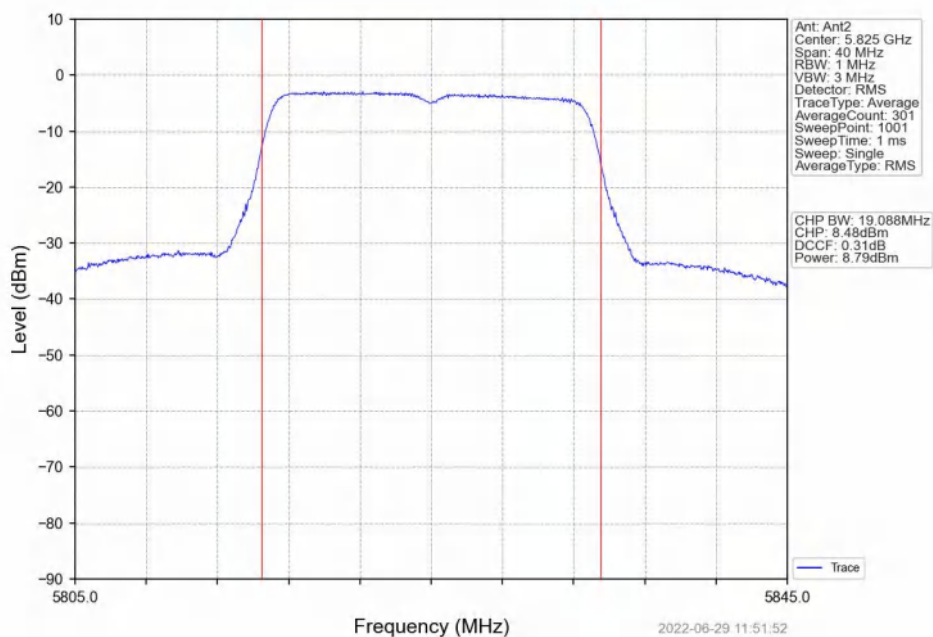
802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



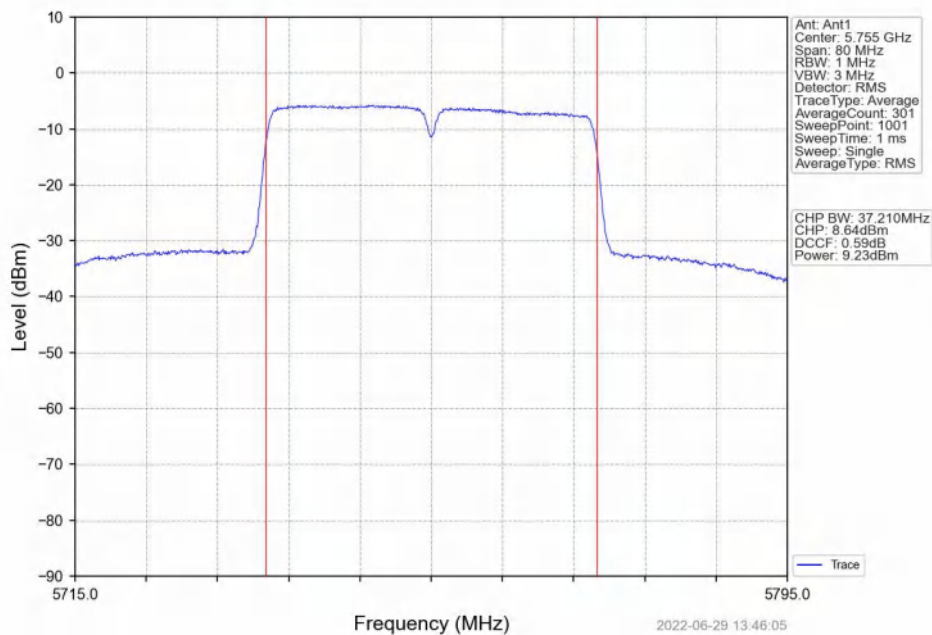
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



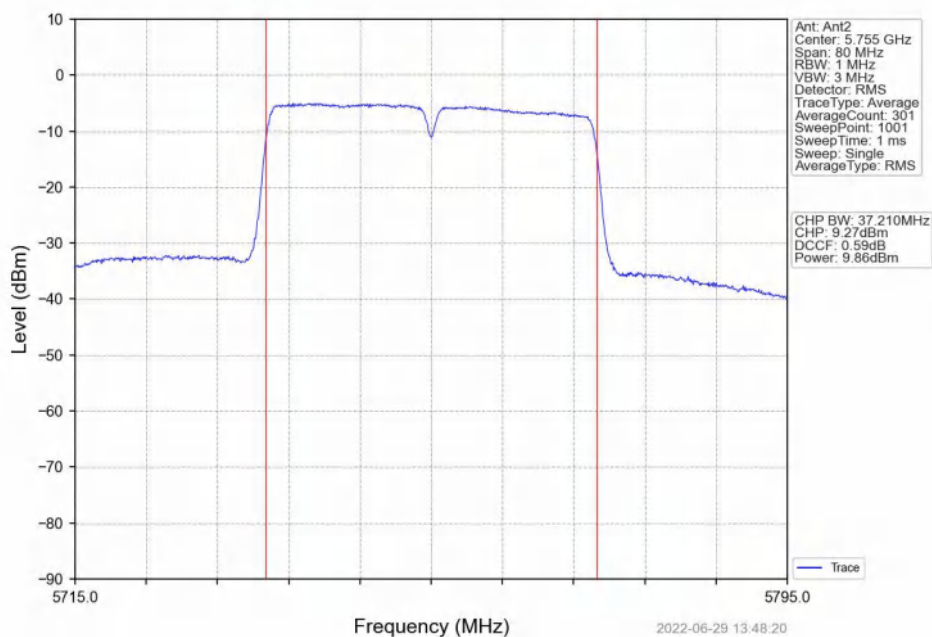
802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



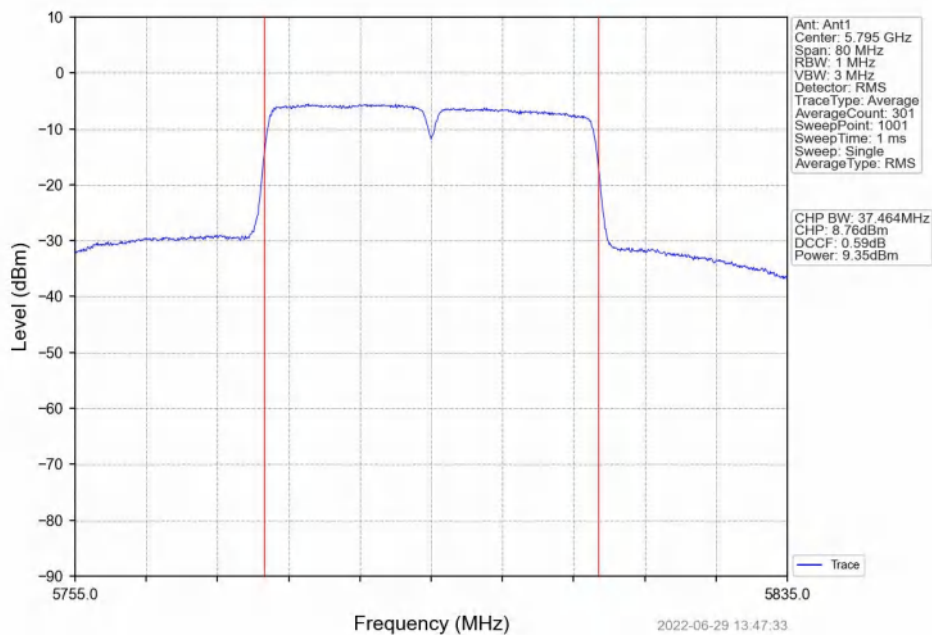
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



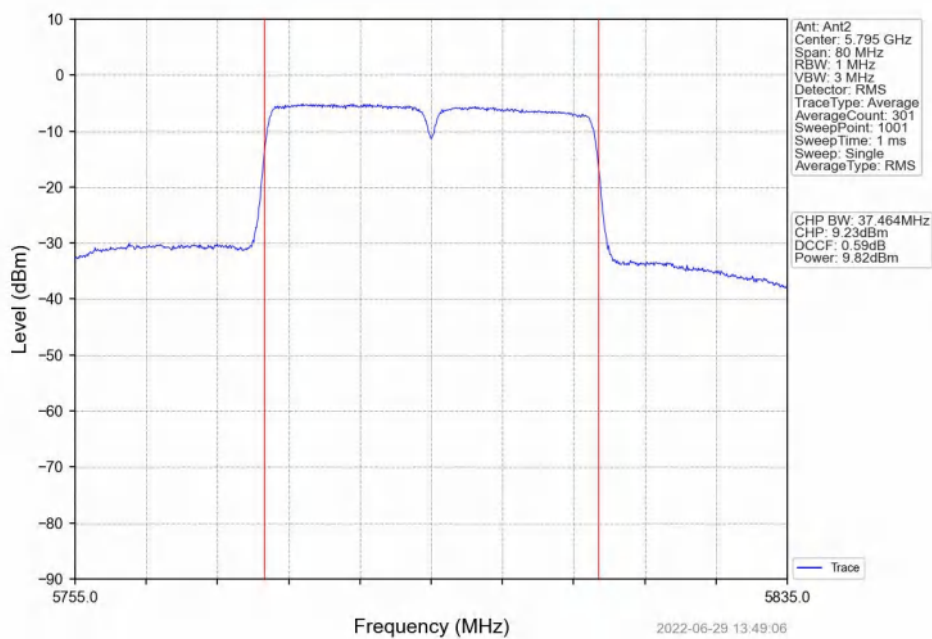
802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



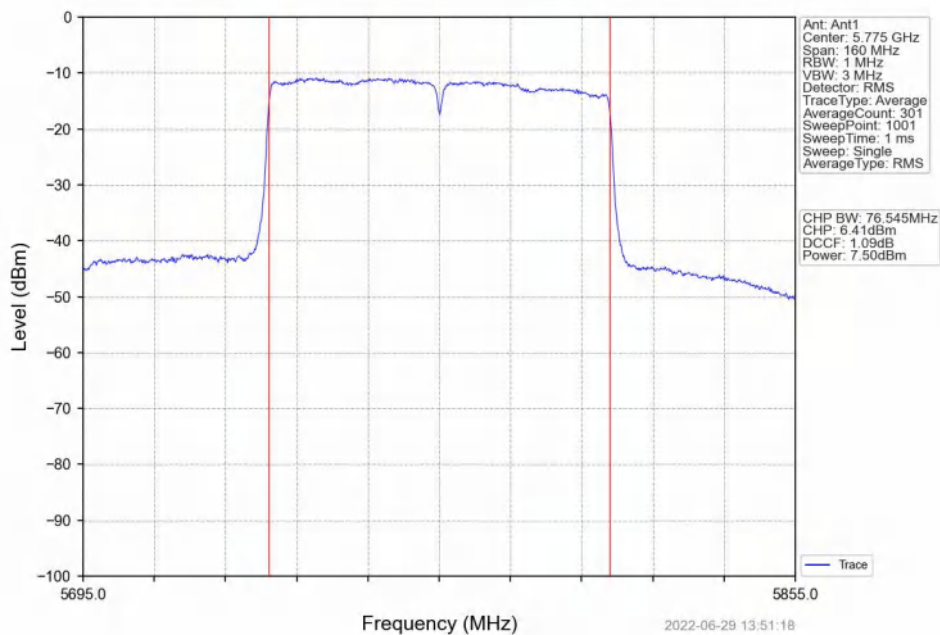
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



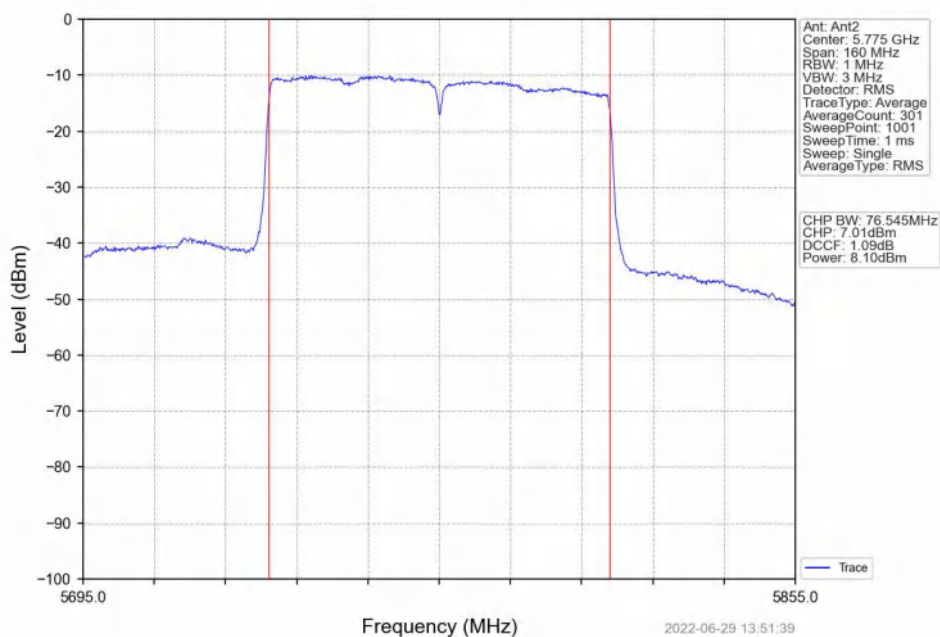
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



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



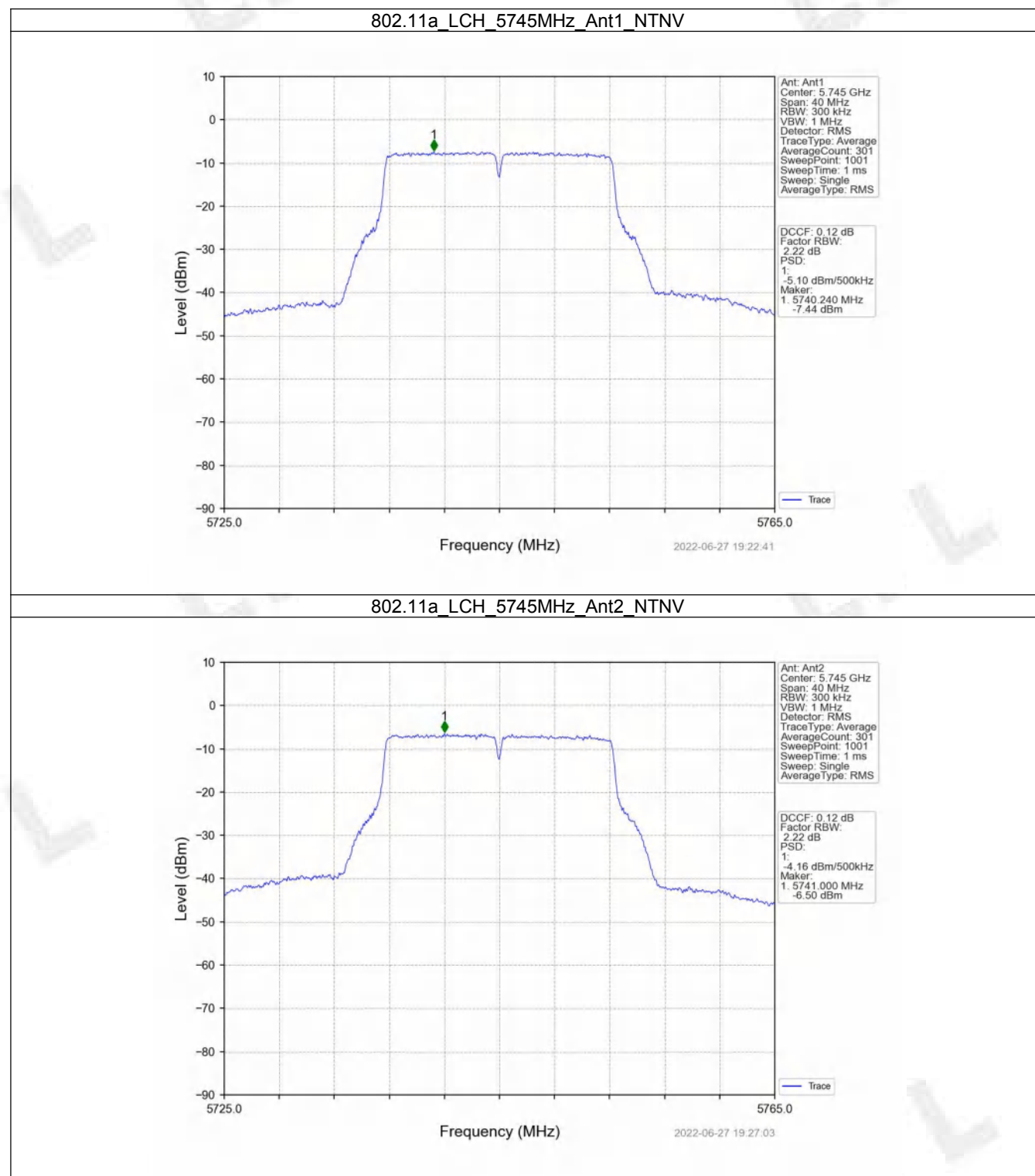
802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



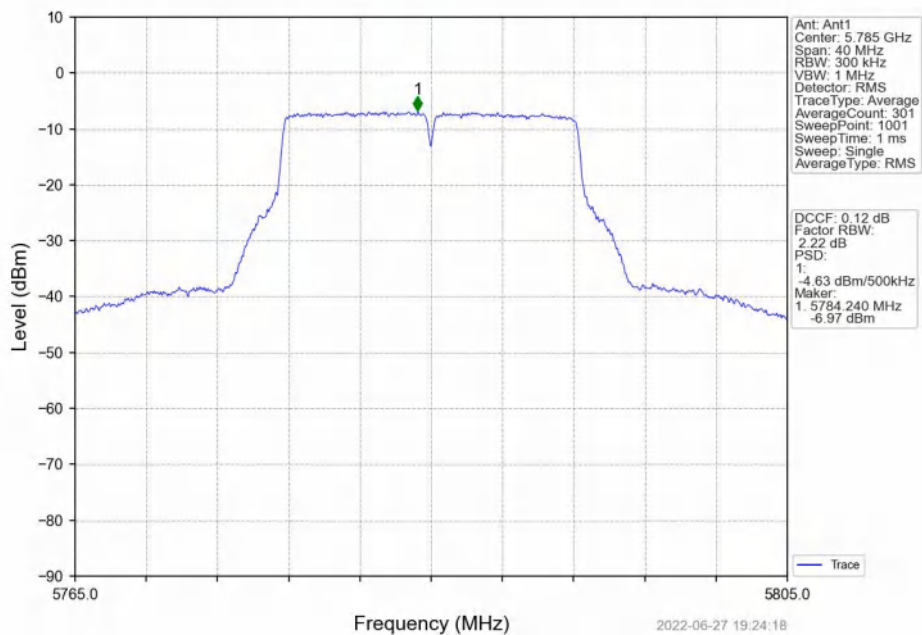
#### 4.1.1 Test Result

| Mode                                                                                                                     | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |        |       |       | Verdict |
|--------------------------------------------------------------------------------------------------------------------------|---------|-----------------|--------------------------|--------|-------|-------|---------|
|                                                                                                                          |         |                 | ANT1                     | ANT2   | MIMO  | Limit |         |
| 802.11a                                                                                                                  | SISO    | 5745            | -5.10                    | -4.16  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5785            | -4.63                    | -4.36  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5825            | -4.68                    | -3.98  | /     | <=30  | Pass    |
| 802.11n (HT20)                                                                                                           | SISO    | 5745            | -5.49                    | -4.63  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5785            | -5.15                    | -4.61  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5825            | -4.85                    | -4.27  | /     | <=30  | Pass    |
| 802.11n (HT40)                                                                                                           | SISO    | 5755            | -6.98                    | -6.37  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5795            | -6.81                    | -6.37  | /     | <=30  | Pass    |
| 802.11n (HT20)                                                                                                           | MIMO    | 5745            | -6.10                    | -5.18  | -2.74 | <=30  | Pass    |
|                                                                                                                          |         | 5785            | -5.81                    | -4.87  | -2.41 | <=30  | Pass    |
|                                                                                                                          |         | 5825            | -5.77                    | -5.53  | -2.80 | <=30  | Pass    |
| 802.11n (HT40)                                                                                                           | MIMO    | 5755            | -7.98                    | -7.05  | -4.54 | <=30  | Pass    |
|                                                                                                                          |         | 5795            | -7.77                    | -7.30  | -4.73 | <=30  | Pass    |
| 802.11ac (VHT20)                                                                                                         | SISO    | 5745            | -5.31                    | -4.84  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5785            | -5.07                    | -4.60  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5825            | -4.90                    | -4.48  | /     | <=30  | Pass    |
| 802.11ac (VHT40)                                                                                                         | SISO    | 5755            | -7.00                    | -6.42  | /     | <=30  | Pass    |
|                                                                                                                          |         | 5795            | -6.46                    | -6.38  | /     | <=30  | Pass    |
| 802.11ac (VHT80)                                                                                                         | SISO    | 5775            | -11.33                   | -10.47 | /     | <=30  | Pass    |
| 802.11ac (VHT20)                                                                                                         | MIMO    | 5745            | -6.00                    | -5.11  | -2.72 | <=30  | Pass    |
|                                                                                                                          |         | 5785            | -5.80                    | -4.98  | -2.44 | <=30  | Pass    |
|                                                                                                                          |         | 5825            | -6.01                    | -5.53  | -2.85 | <=30  | Pass    |
| 802.11ac (VHT40)                                                                                                         | MIMO    | 5755            | -7.98                    | -7.13  | -4.76 | <=30  | Pass    |
|                                                                                                                          |         | 5795            | -7.91                    | -7.32  | -4.65 | <=30  | Pass    |
| 802.11ac (VHT80)                                                                                                         | MIMO    | 5775            | -11.85                   | -11.11 | -8.76 | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 5.15dBi; Ant2: 3.89dBi;<br>Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain) |         |                 |                          |        |       |       |         |

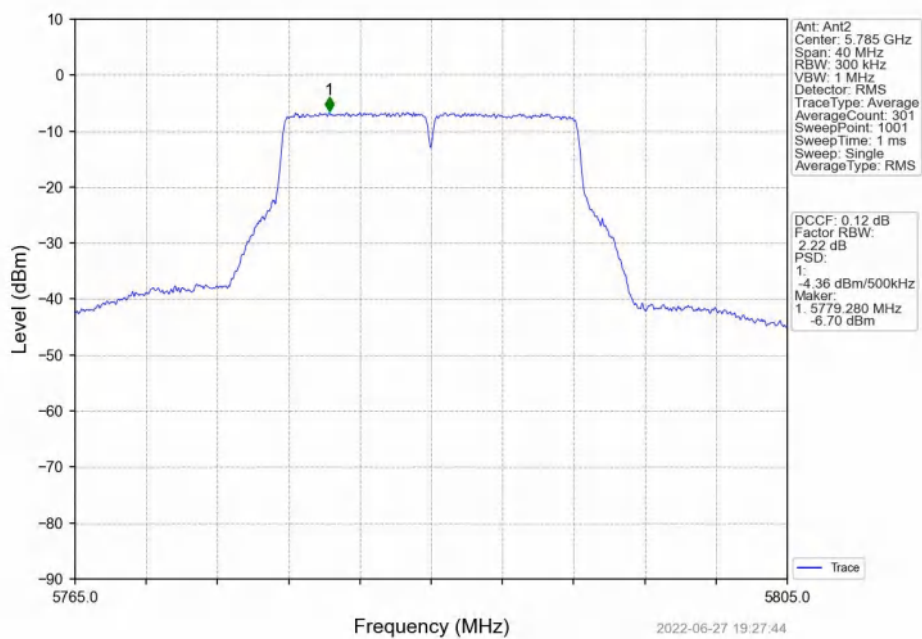
## 4.1.2 Test Graph



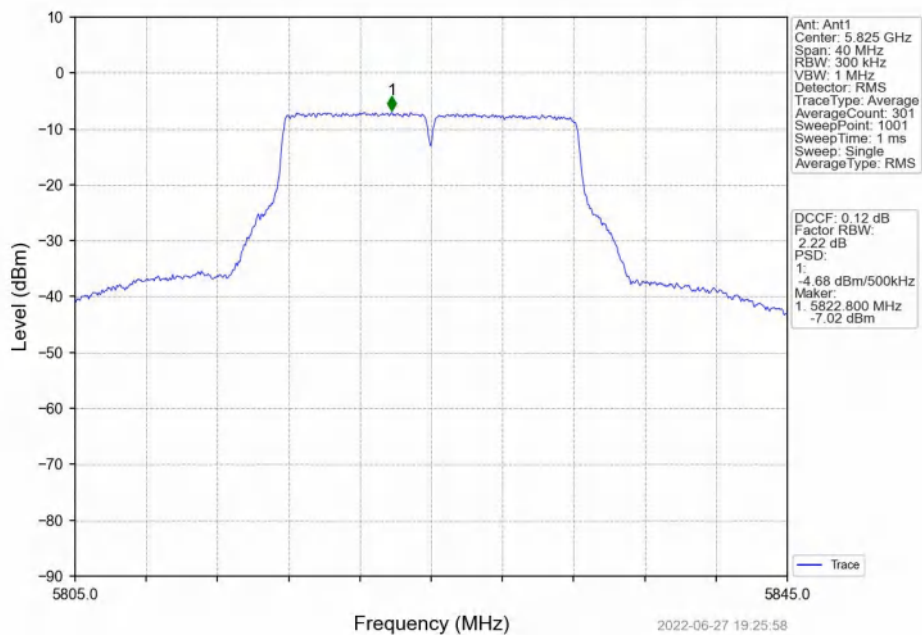
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



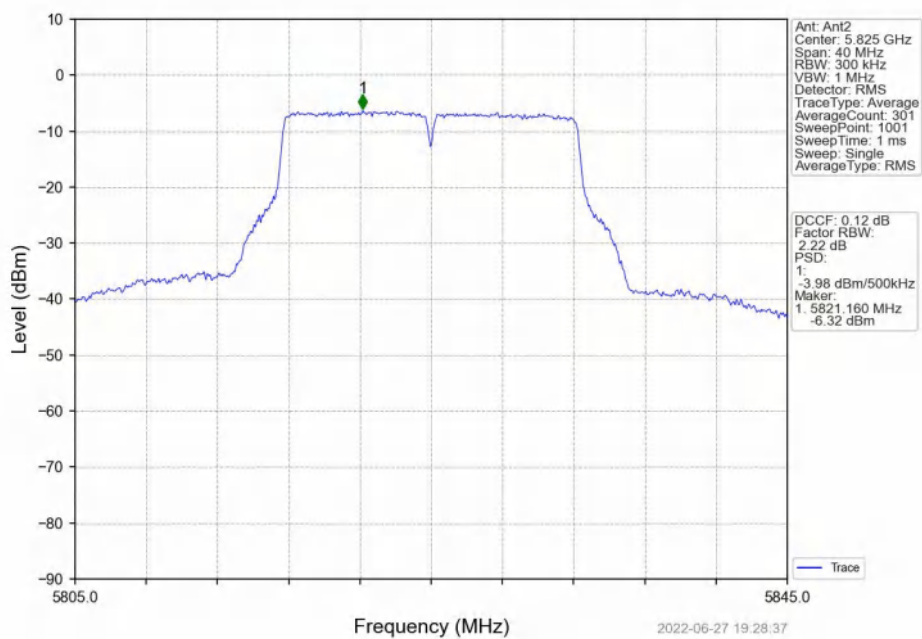
802.11a\_MCH\_5785MHz\_Ant2\_NTNV



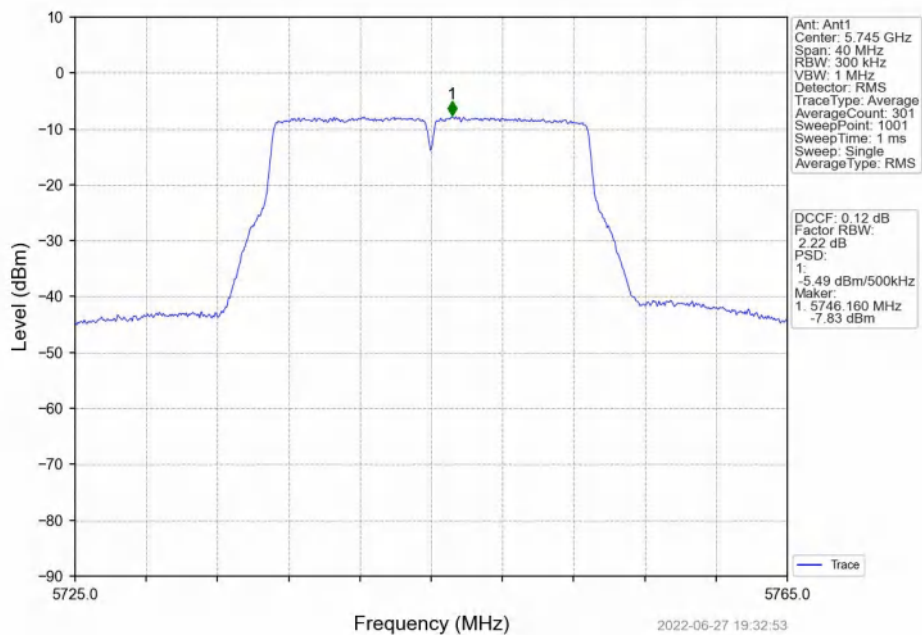
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



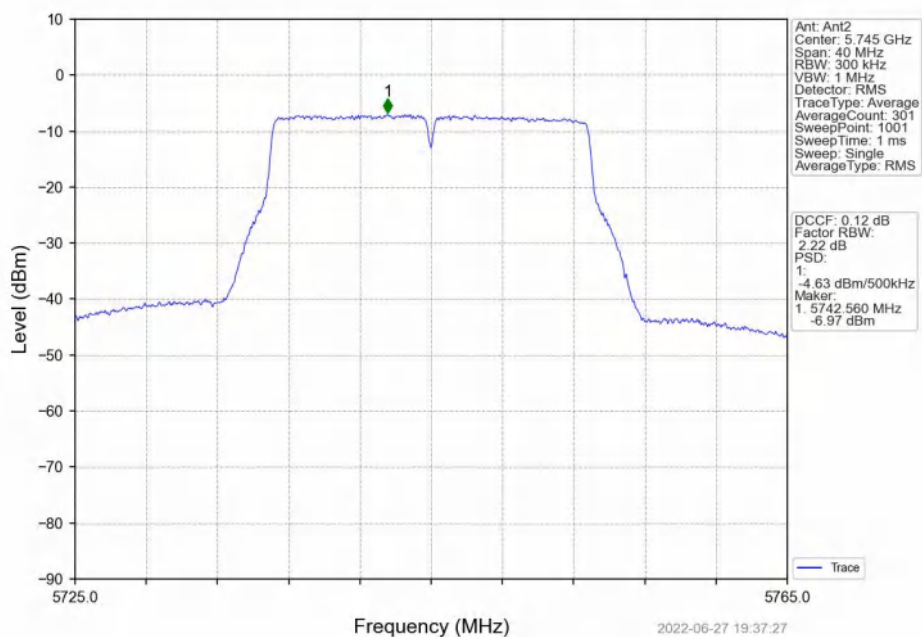
802.11a\_HCH\_5825MHz\_Ant2\_NTNV



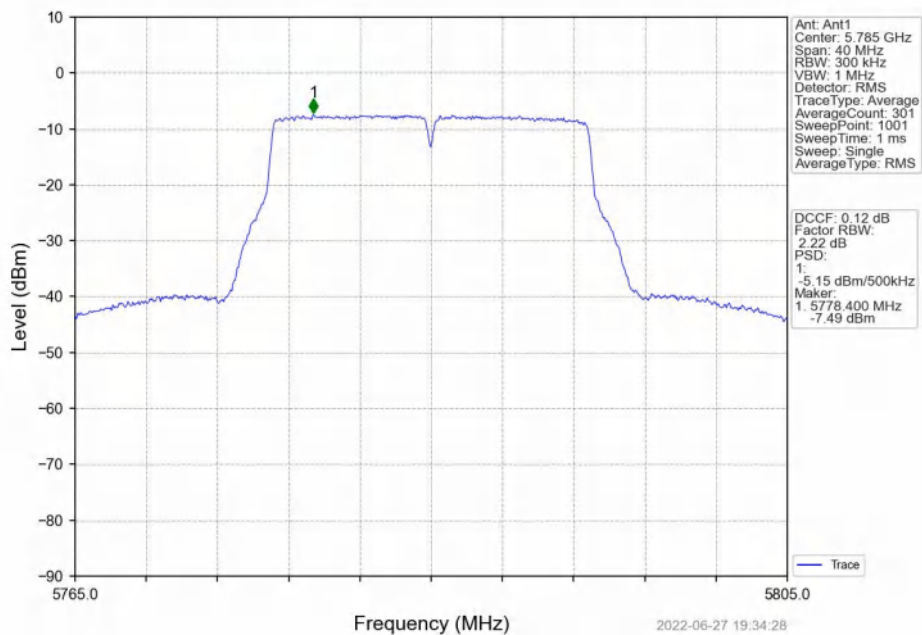
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



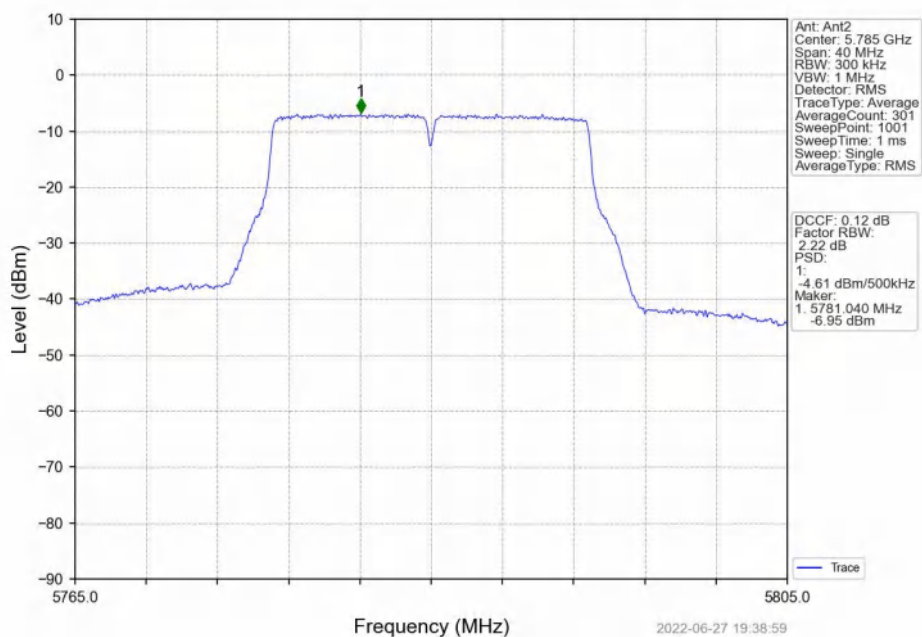
802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



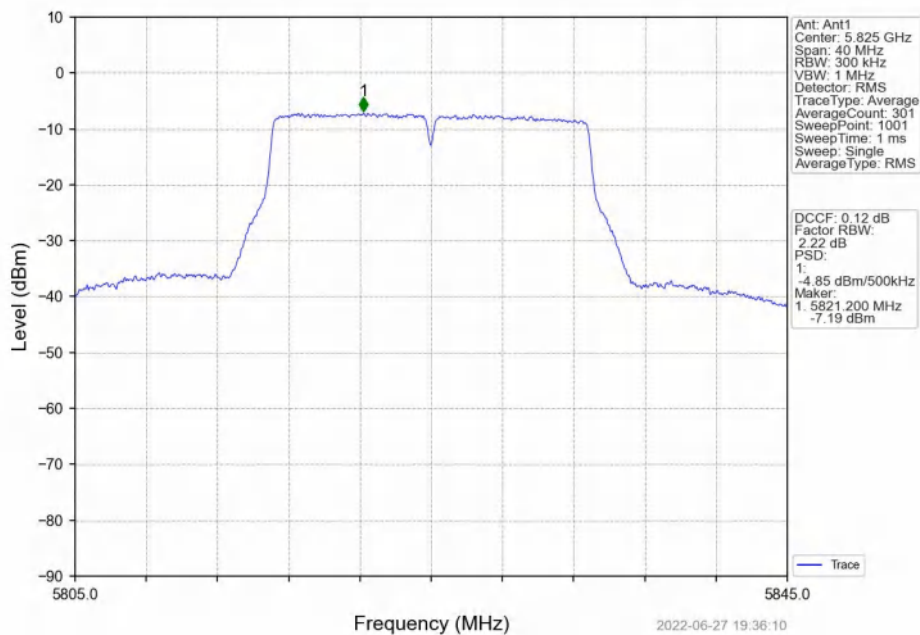
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



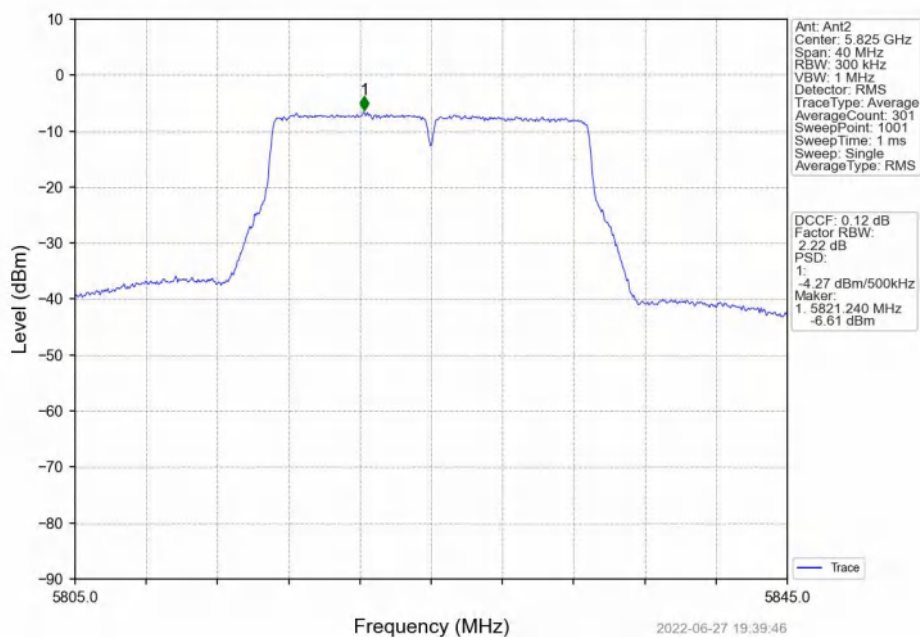
802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



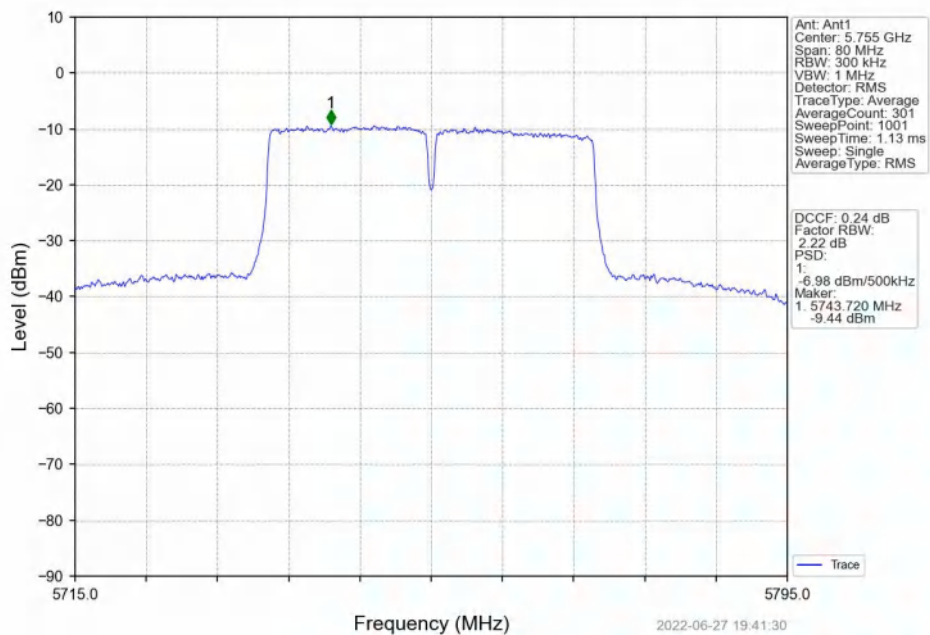
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



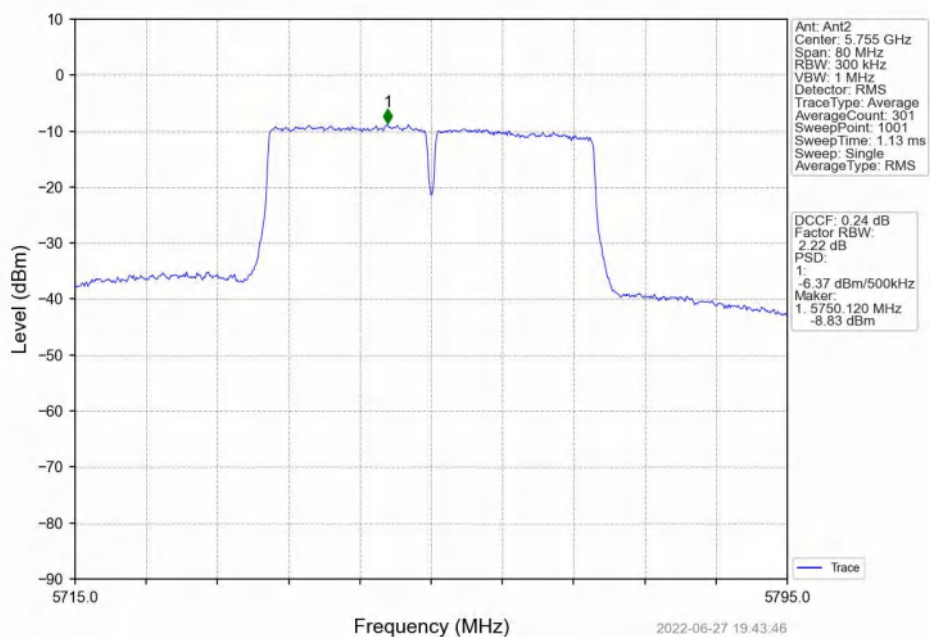
802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



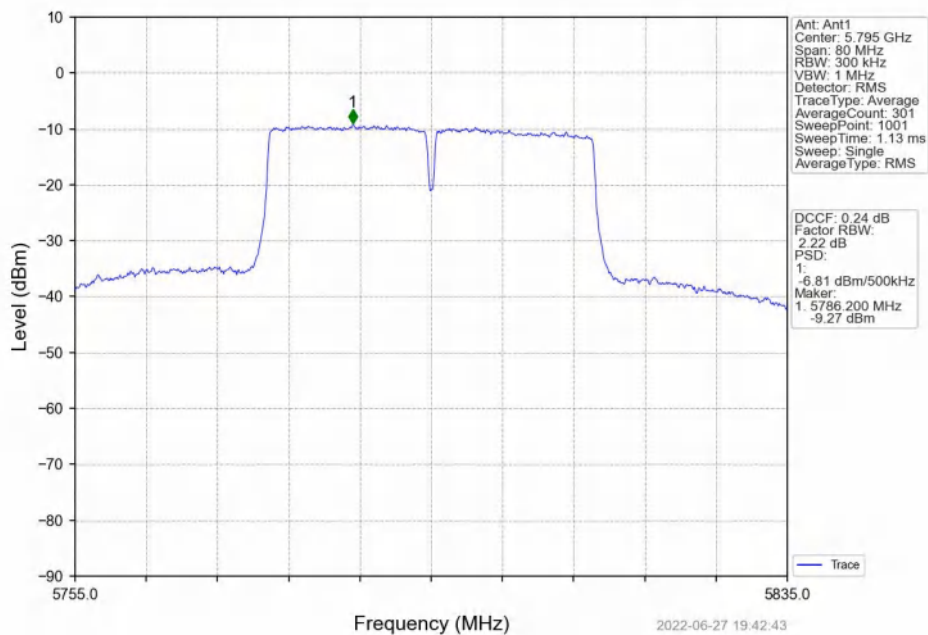
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



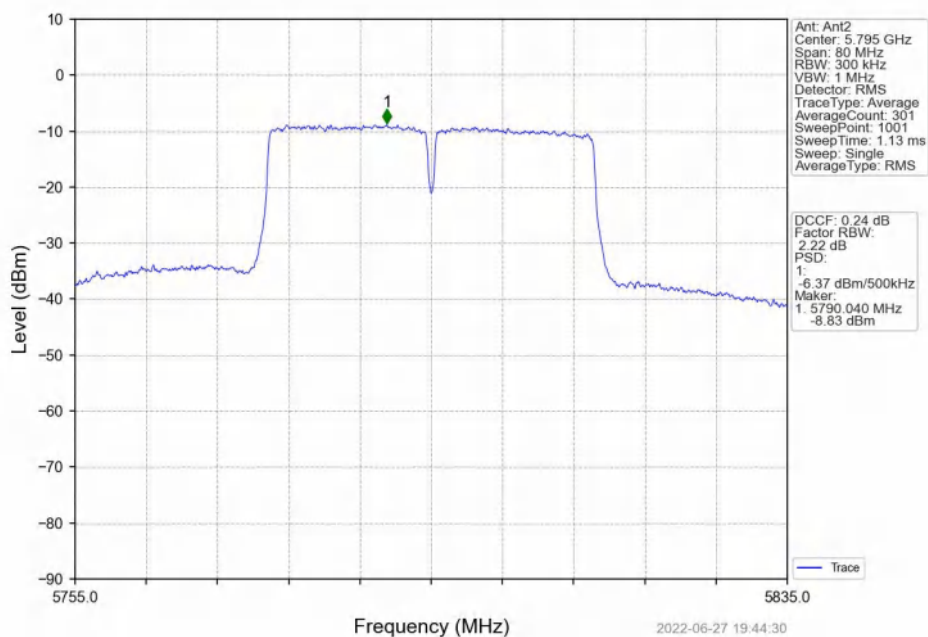
802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



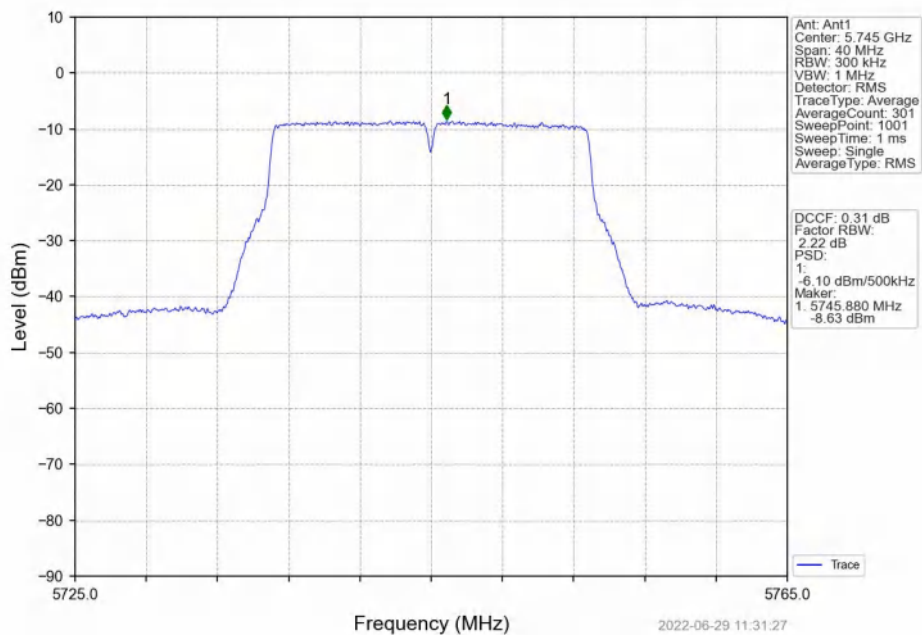
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



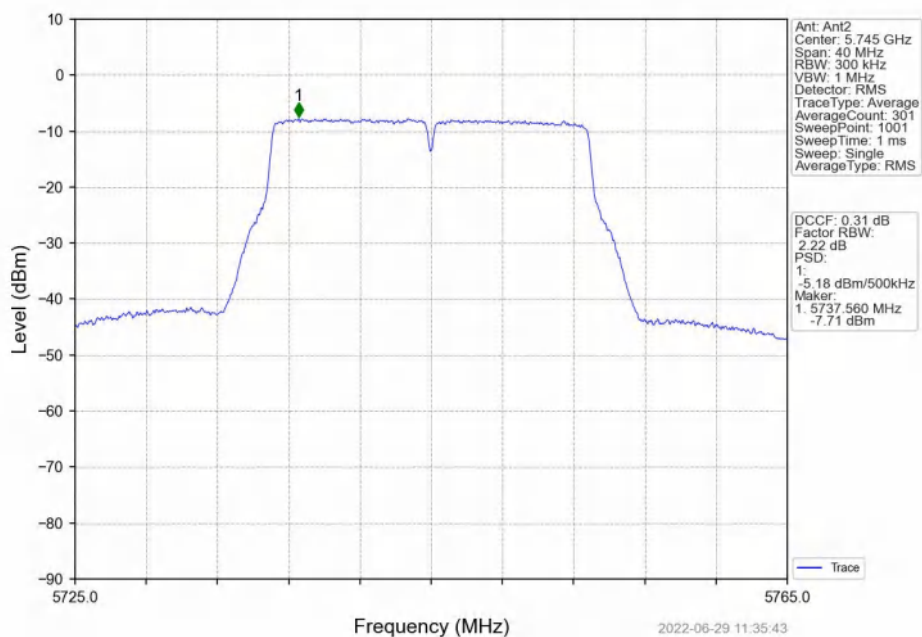
802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



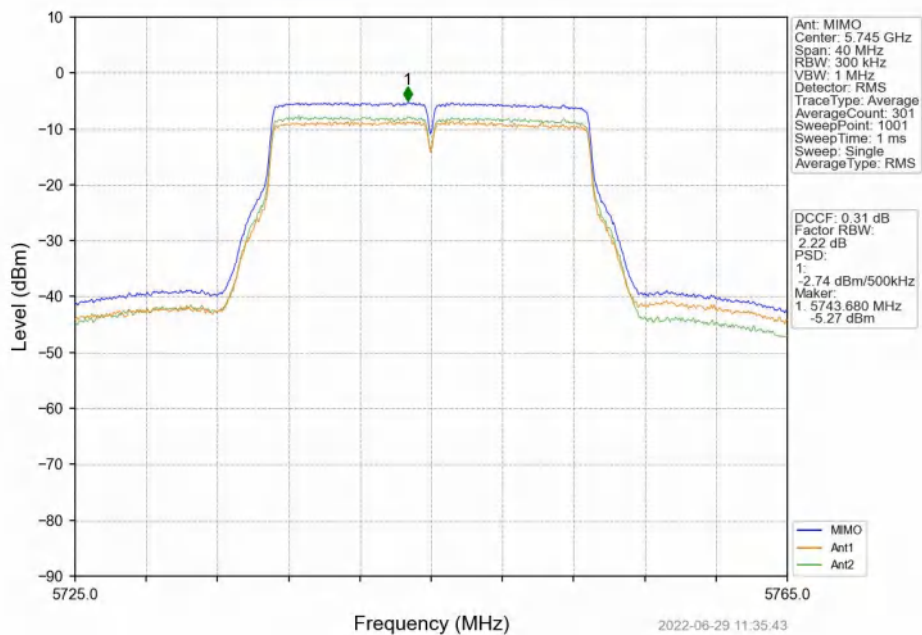
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



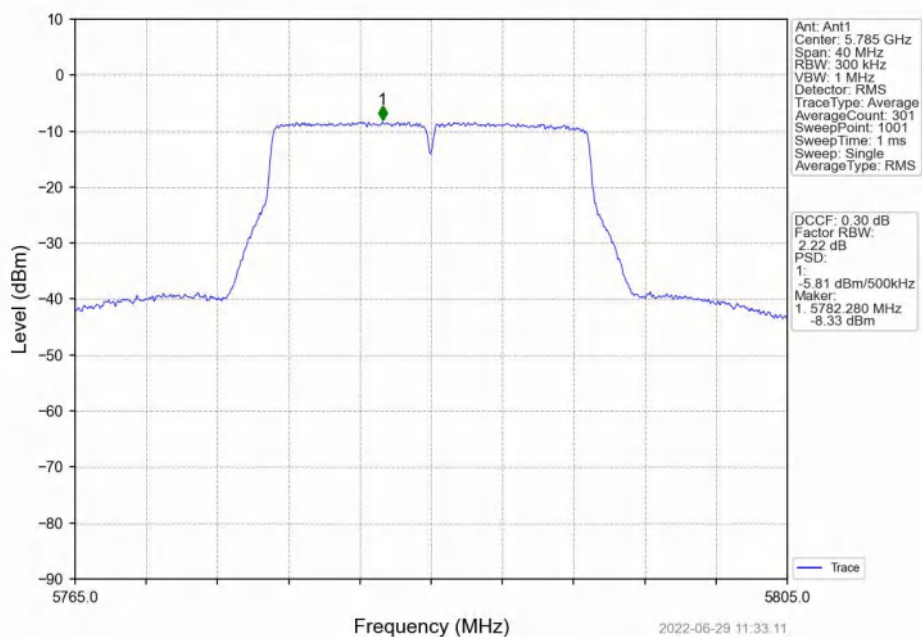
802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



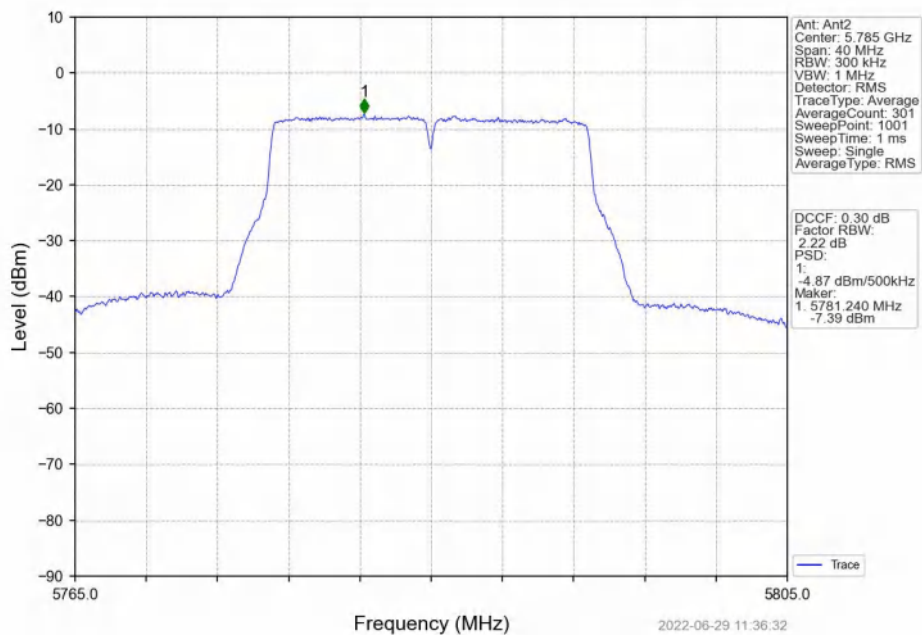
802.11n(HT20)\_LCH\_5745MHz\_MIMO\_NTNV



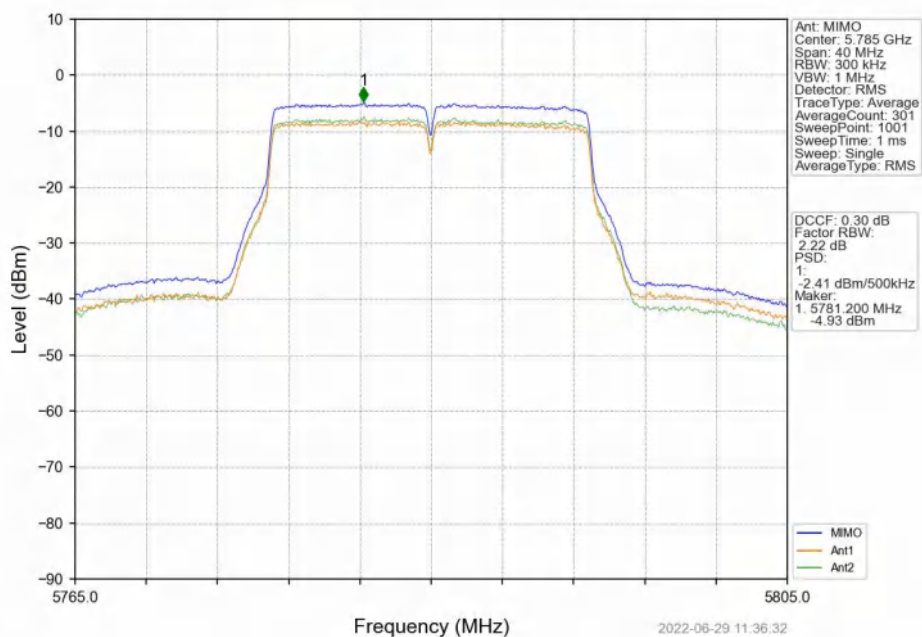
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



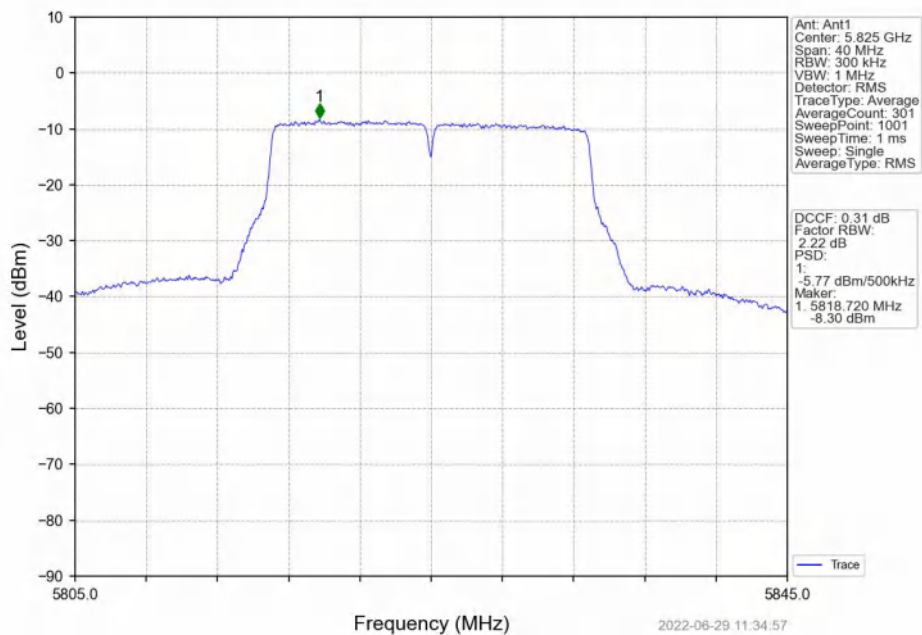
802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



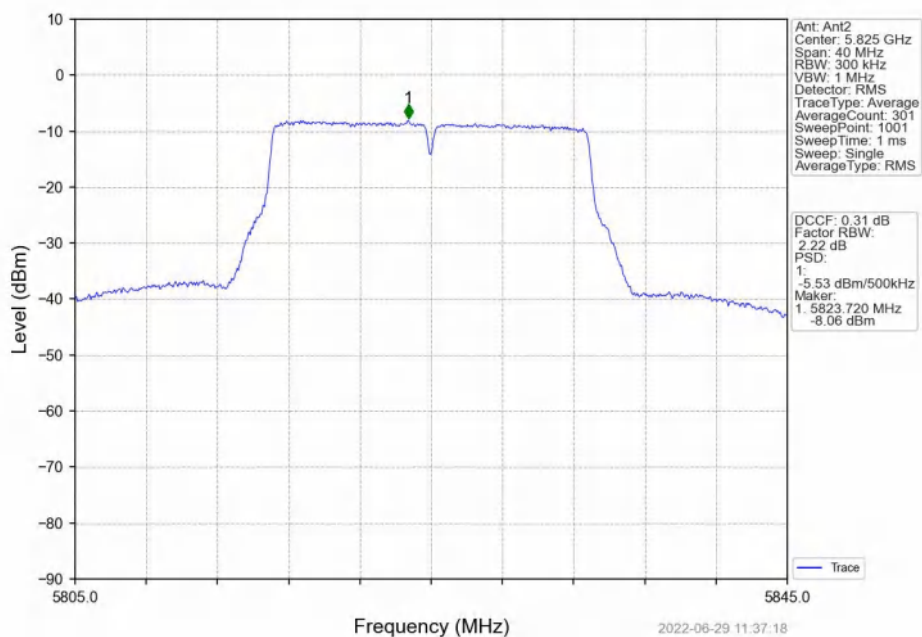
802.11n(HT20)\_MCH\_5785MHz\_MIMO\_NTNV



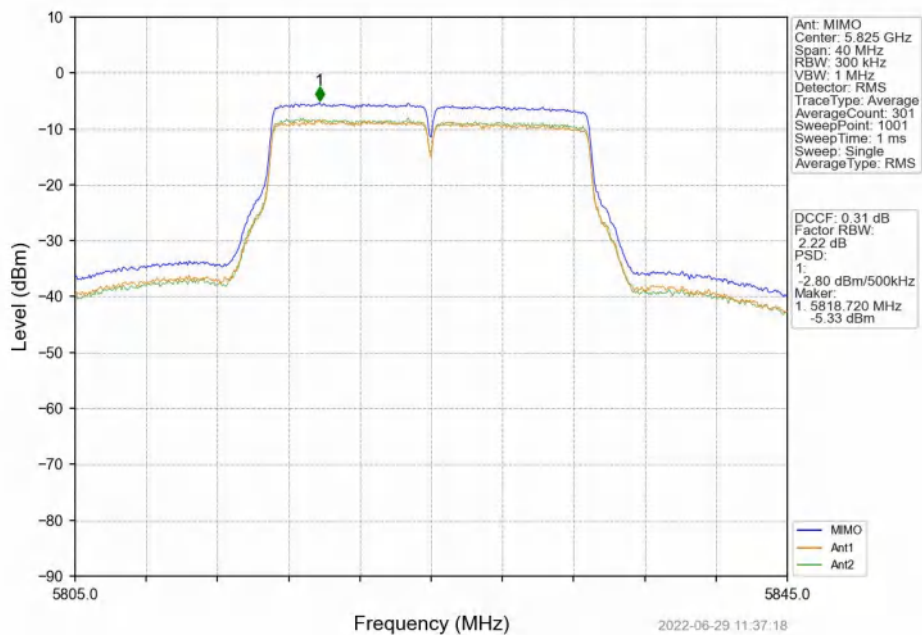
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



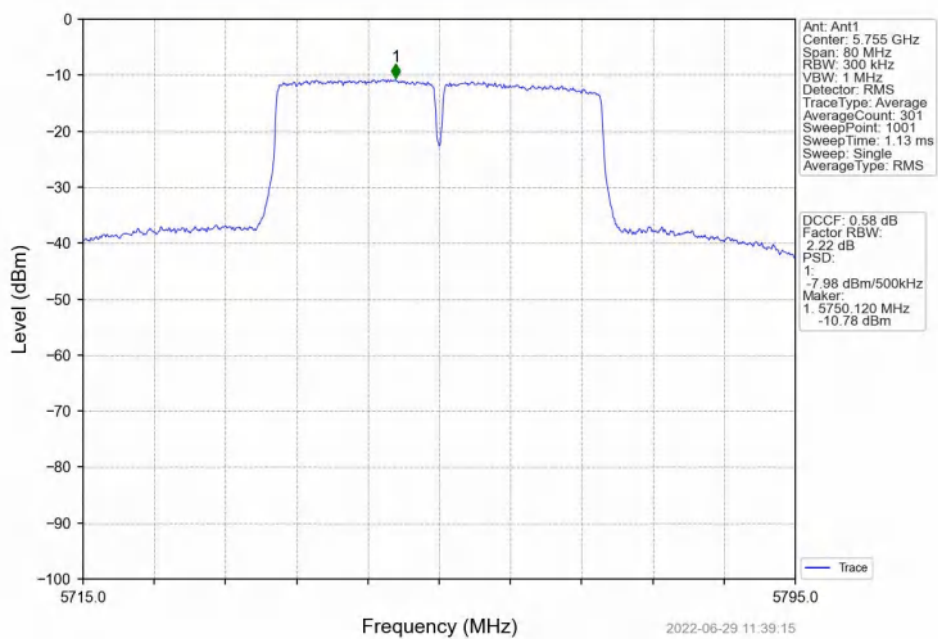
802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



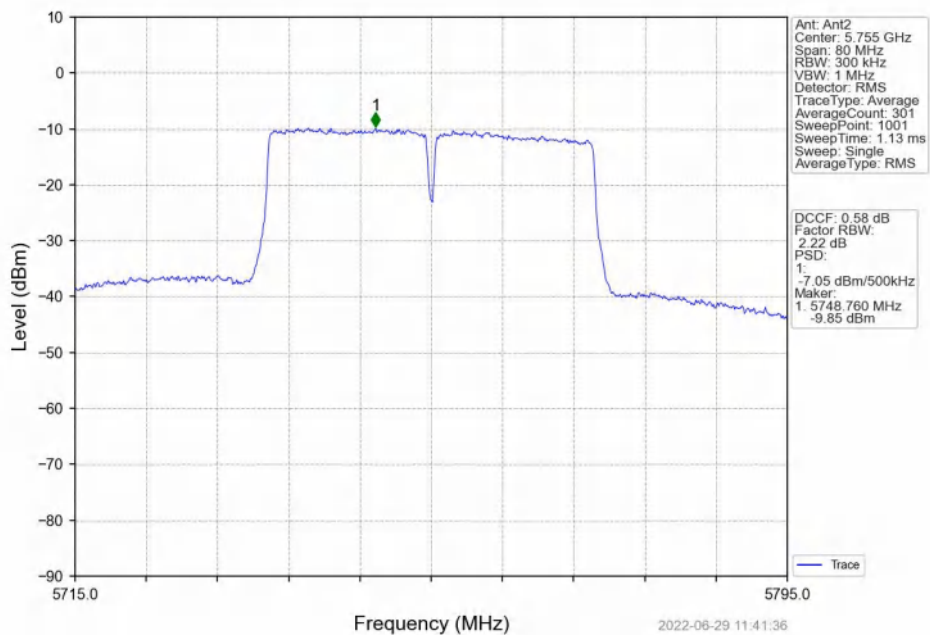
802.11n(HT20)\_HCH\_5825MHz\_MIMO\_NTNV



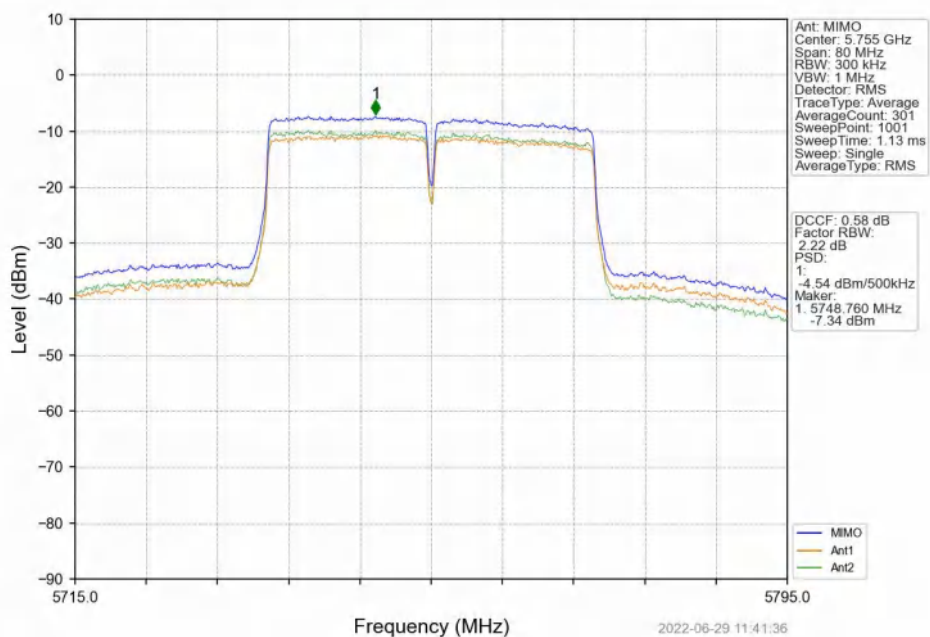
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



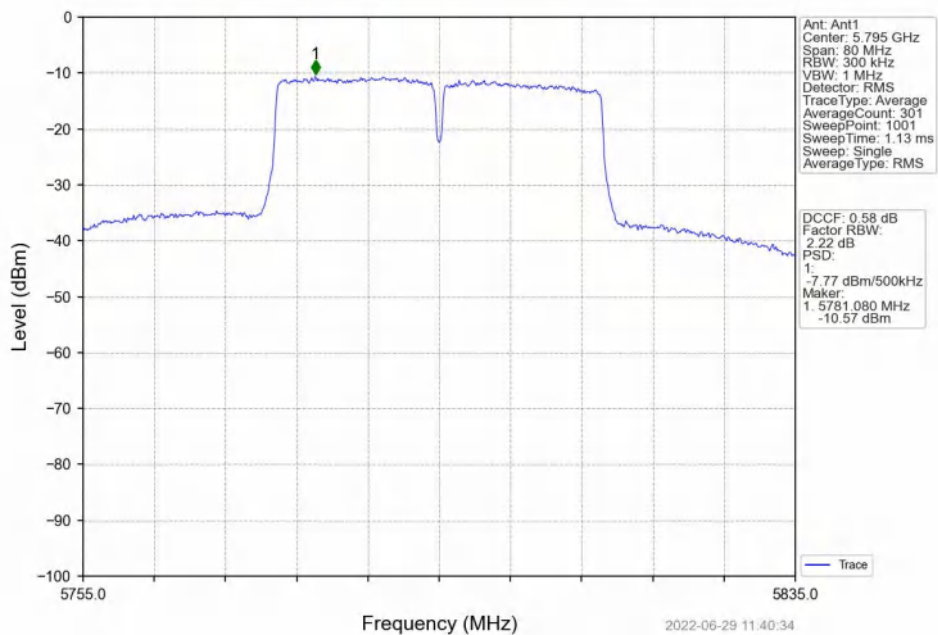
802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



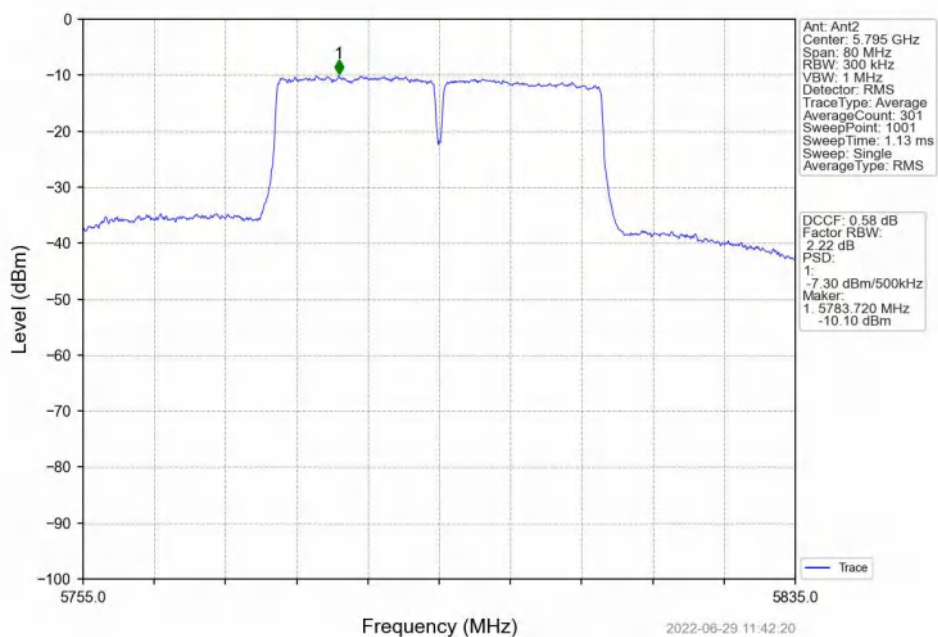
802.11n(HT40)\_LCH\_5755MHz\_MIMO\_NTNV



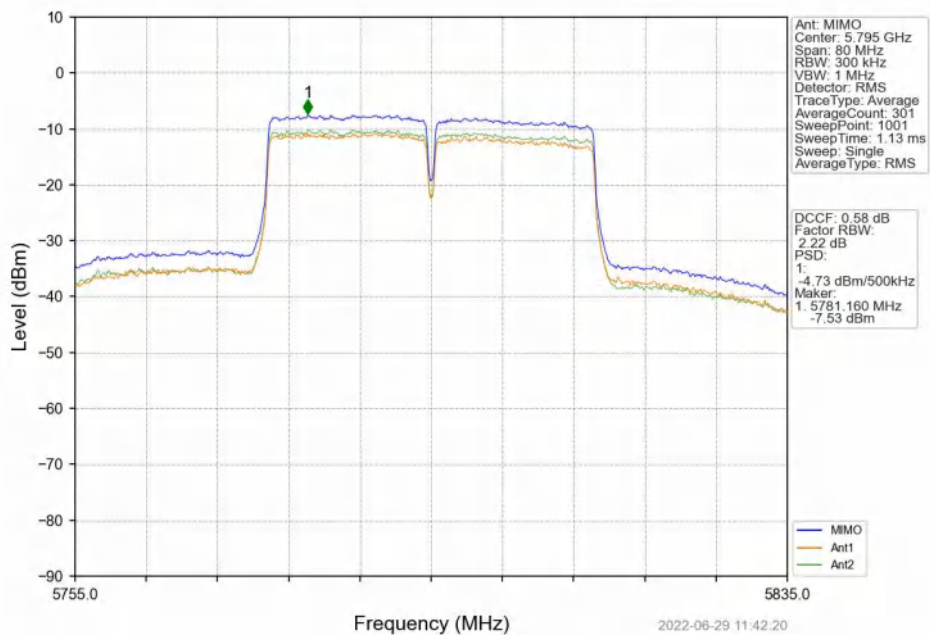
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



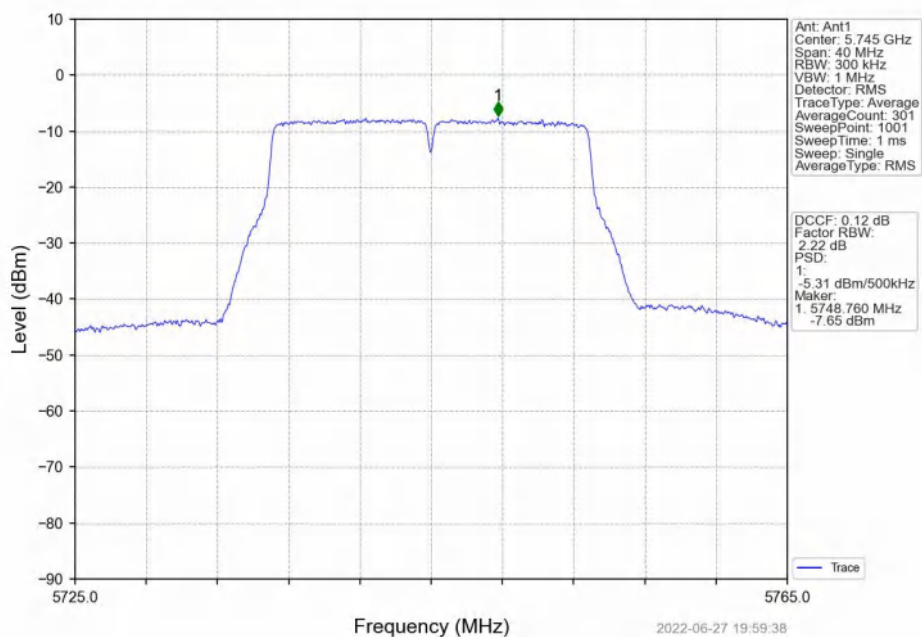
802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



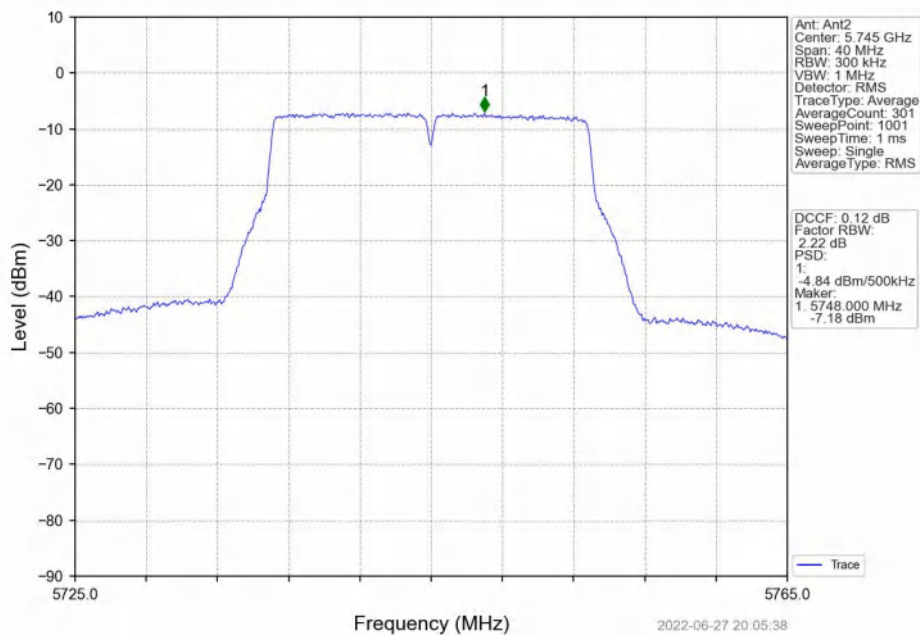
802.11n(HT40)\_HCH\_5795MHz\_MIMO\_NTNV



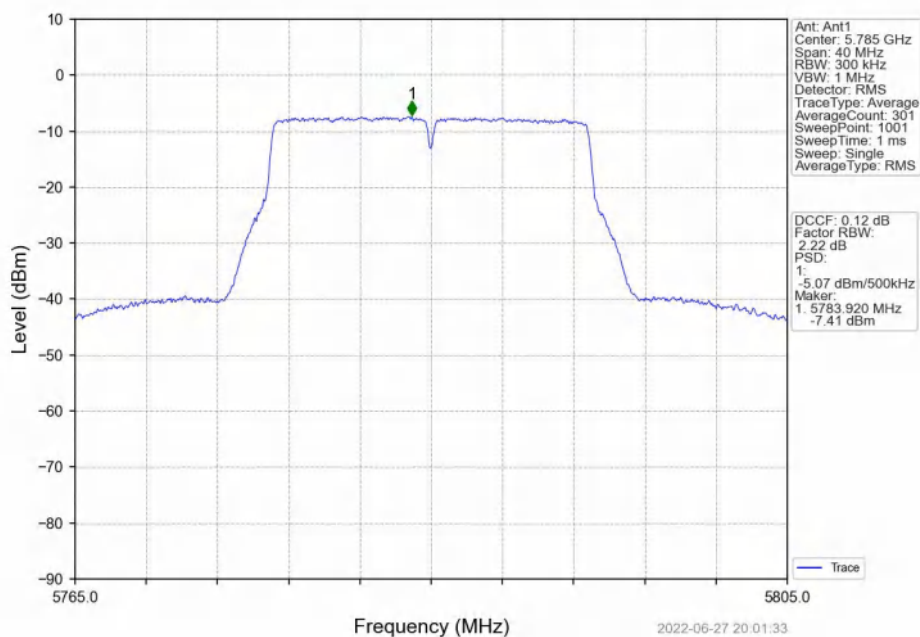
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



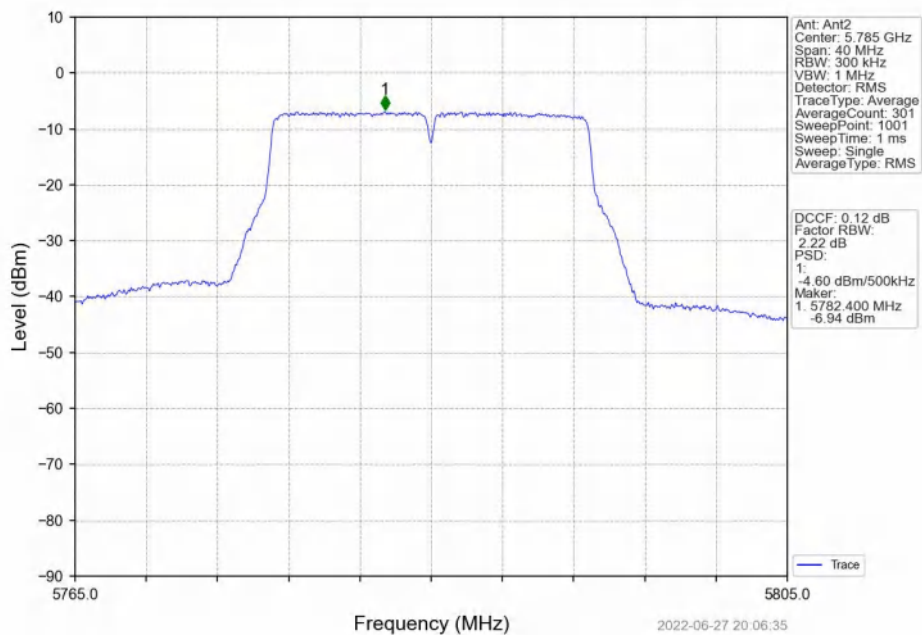
802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



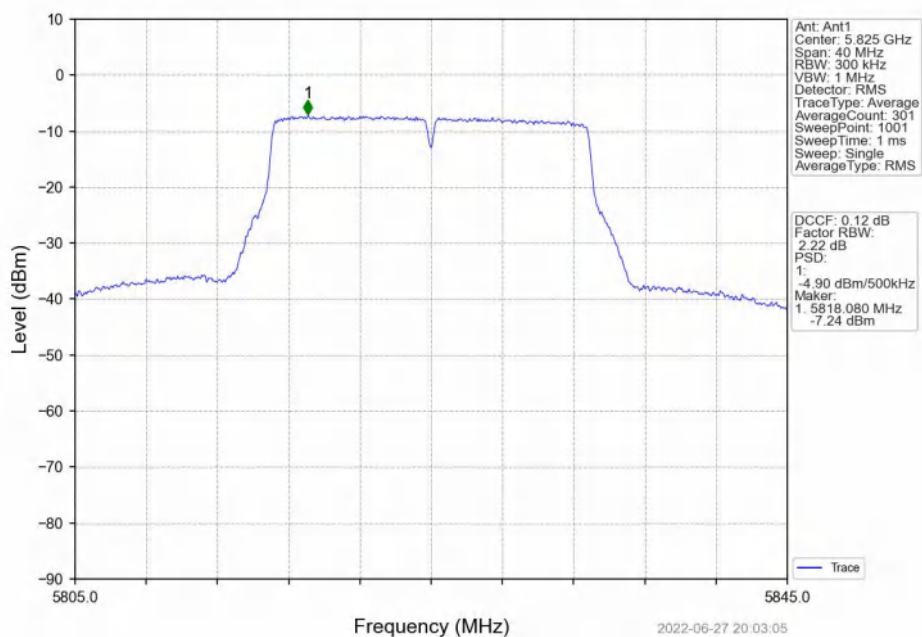
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



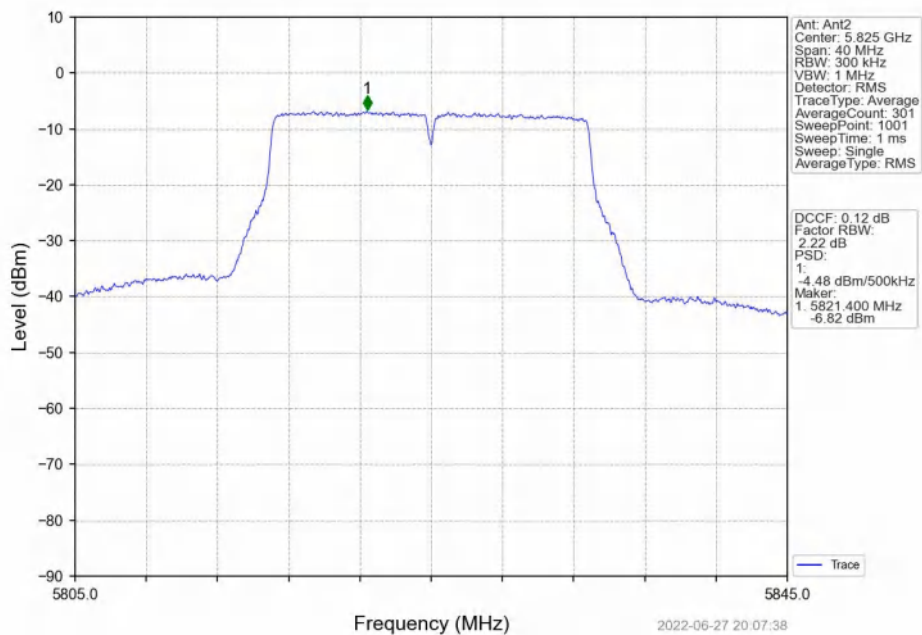
802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



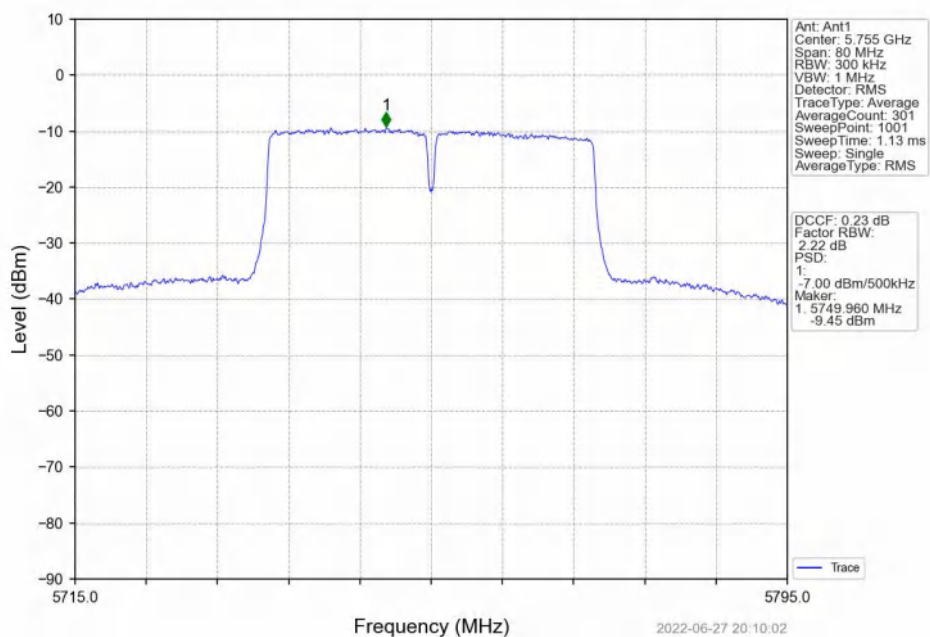
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



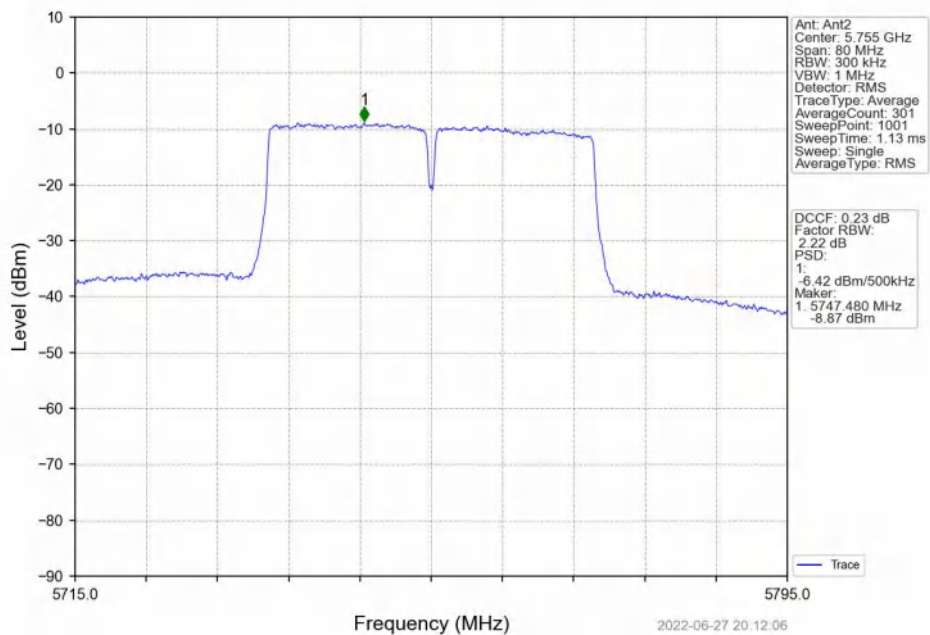
802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



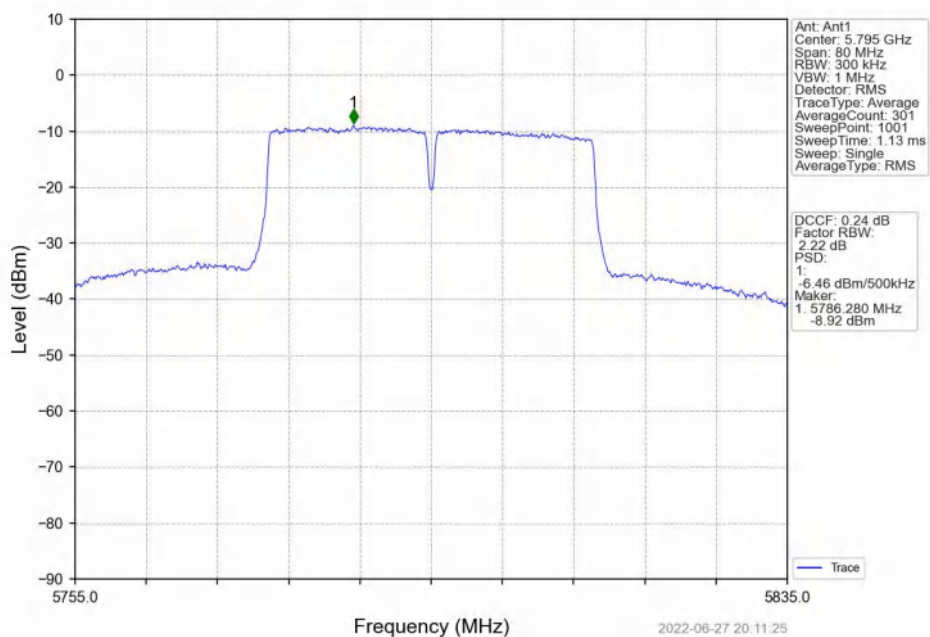
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



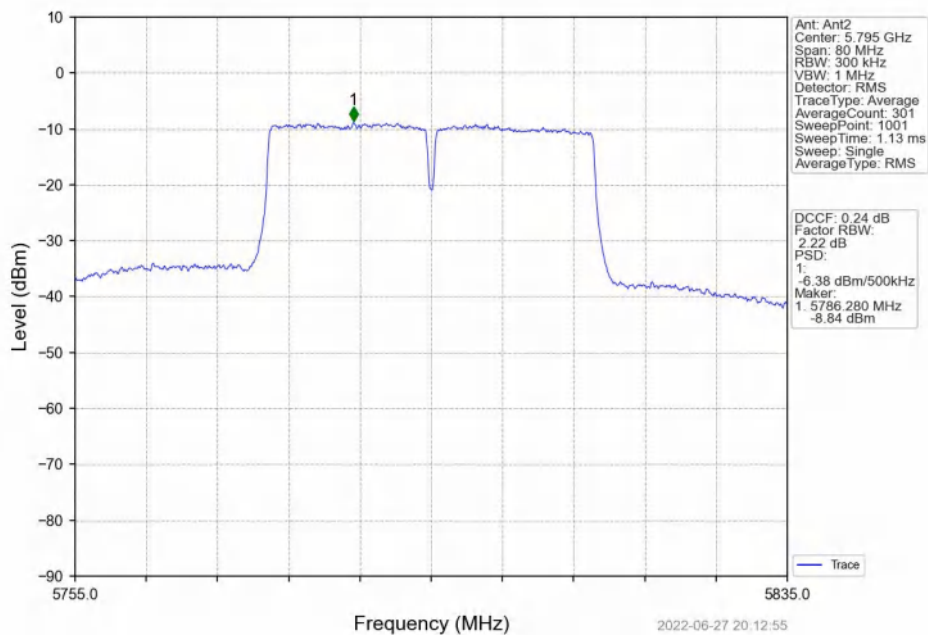
802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



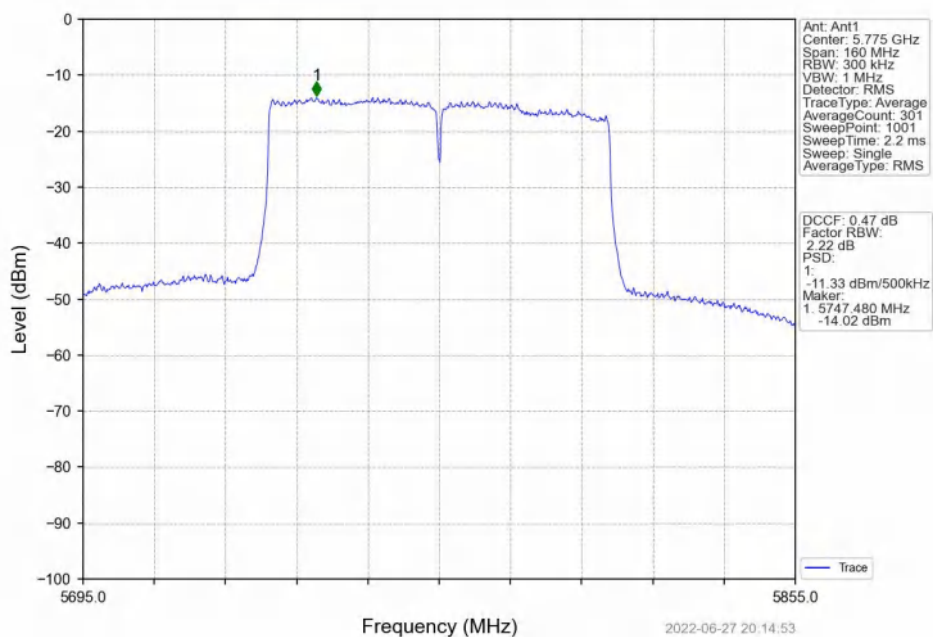
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



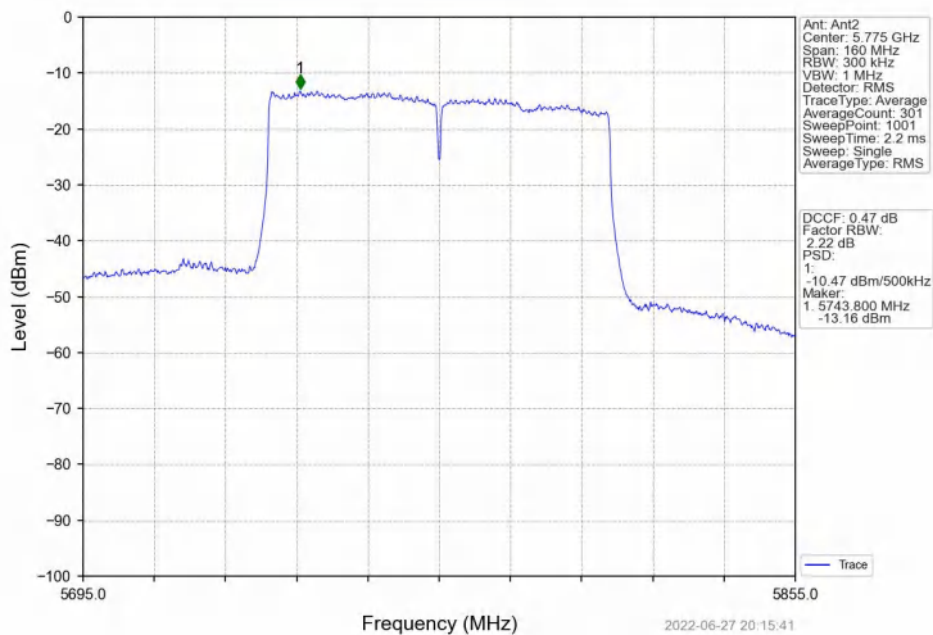
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



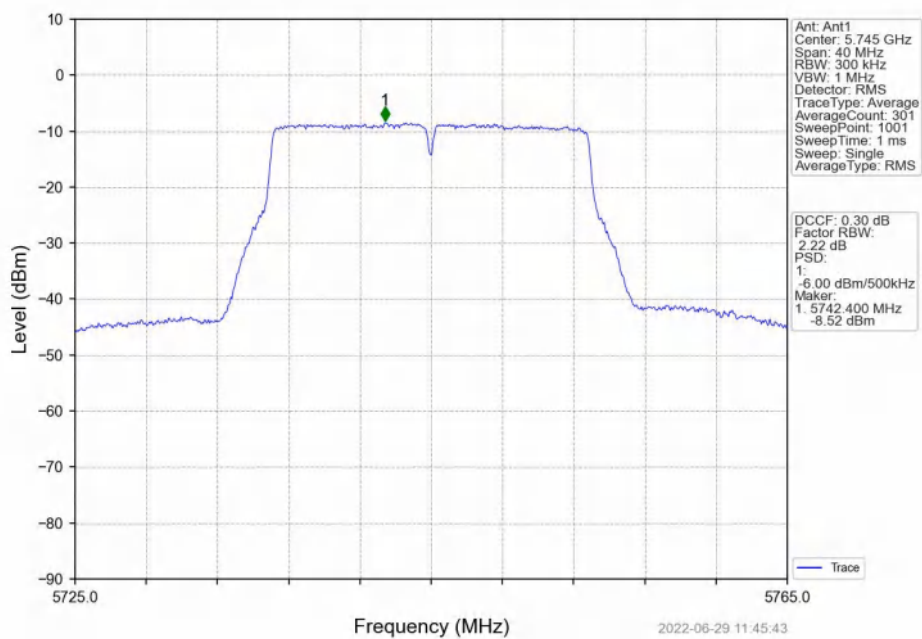
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



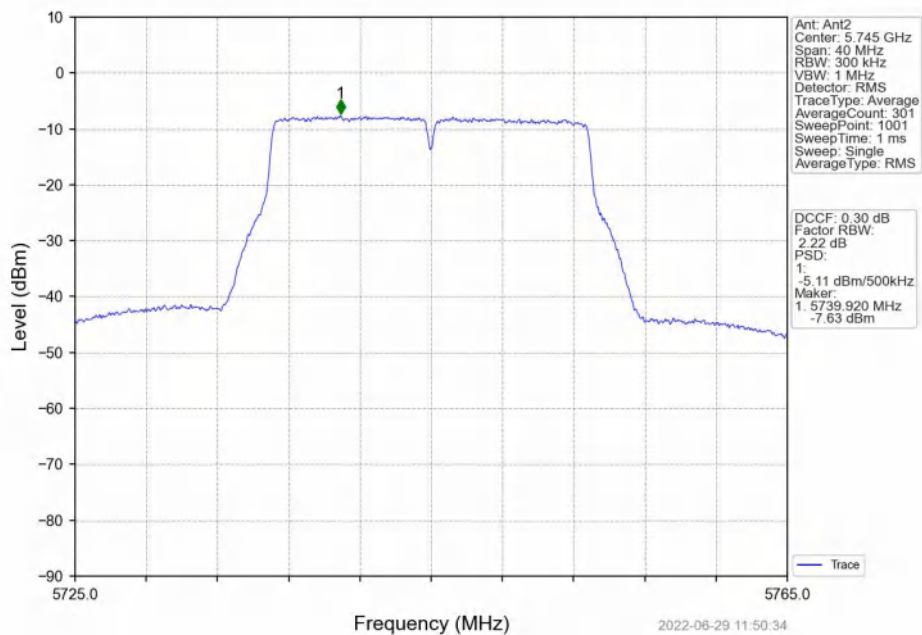
802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



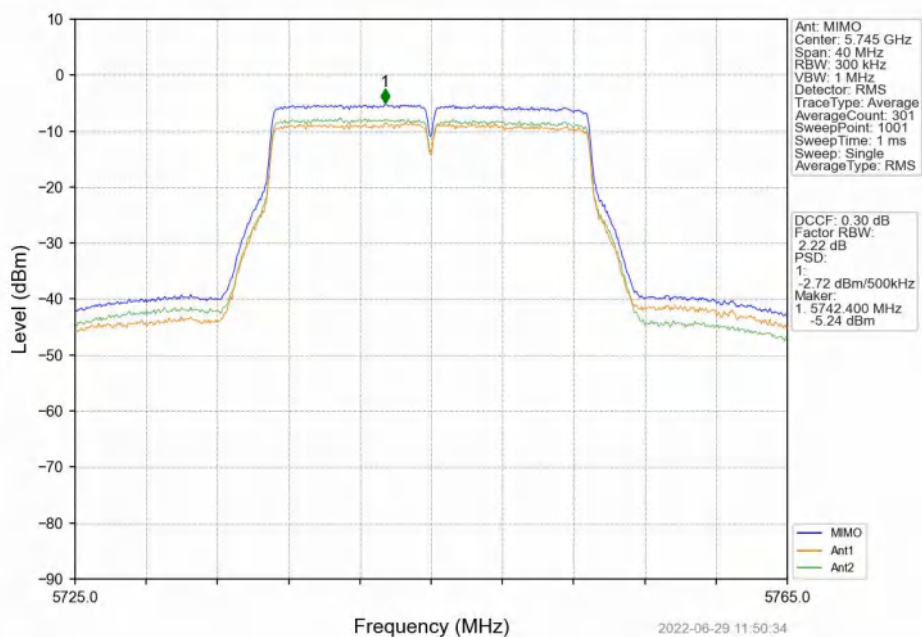
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



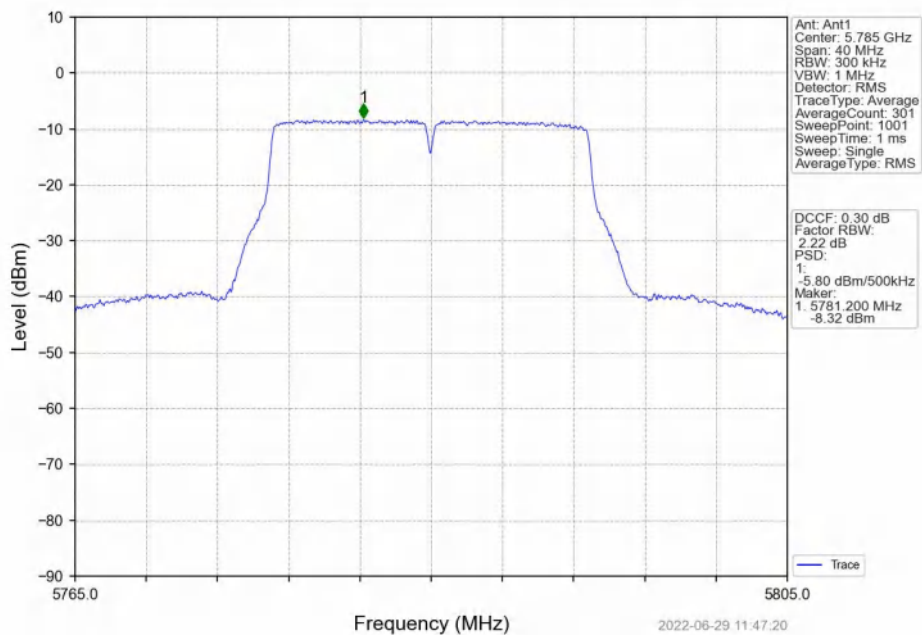
802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



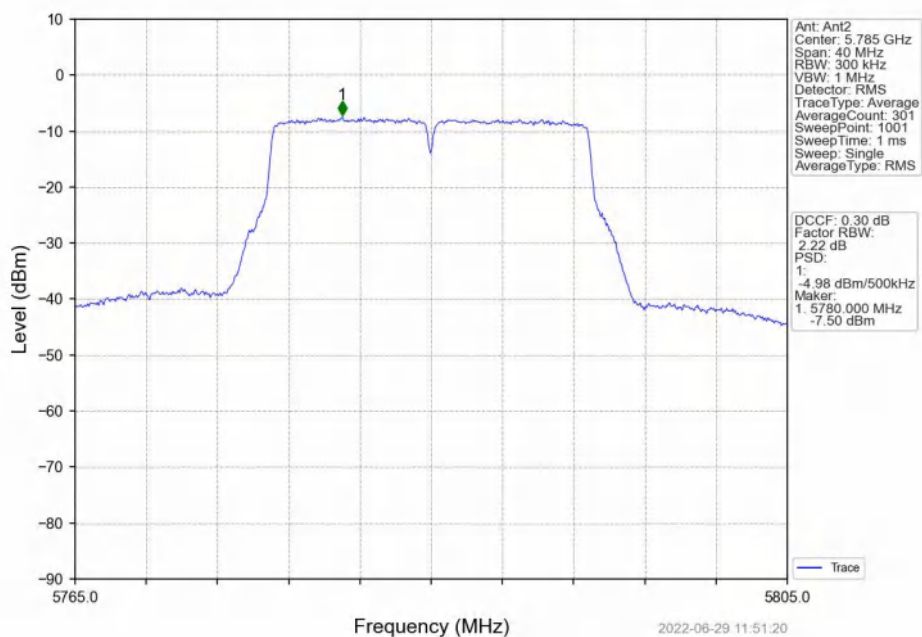
802.11ac(VHT20)\_LCH\_5745MHz\_MIMO\_NTNV



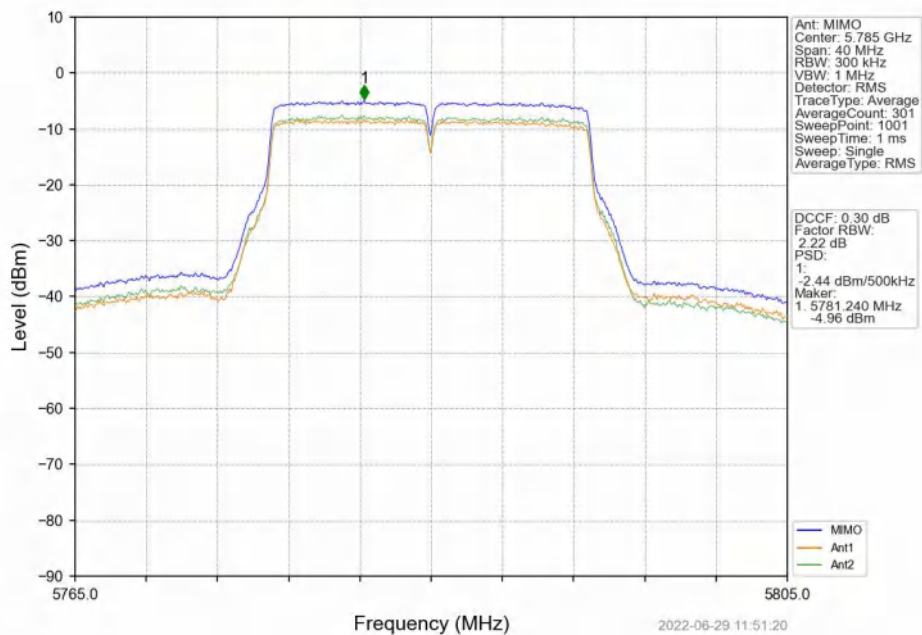
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



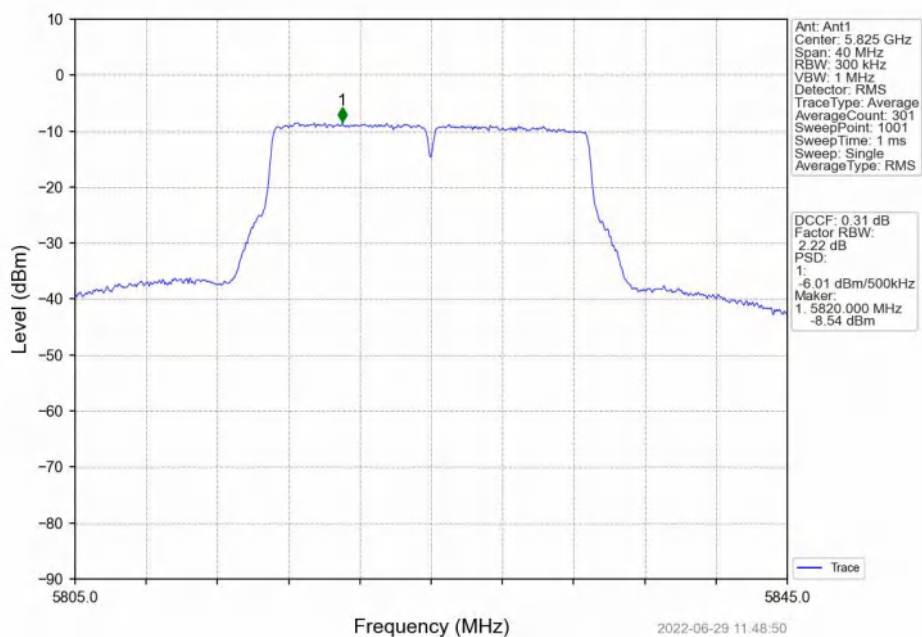
802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



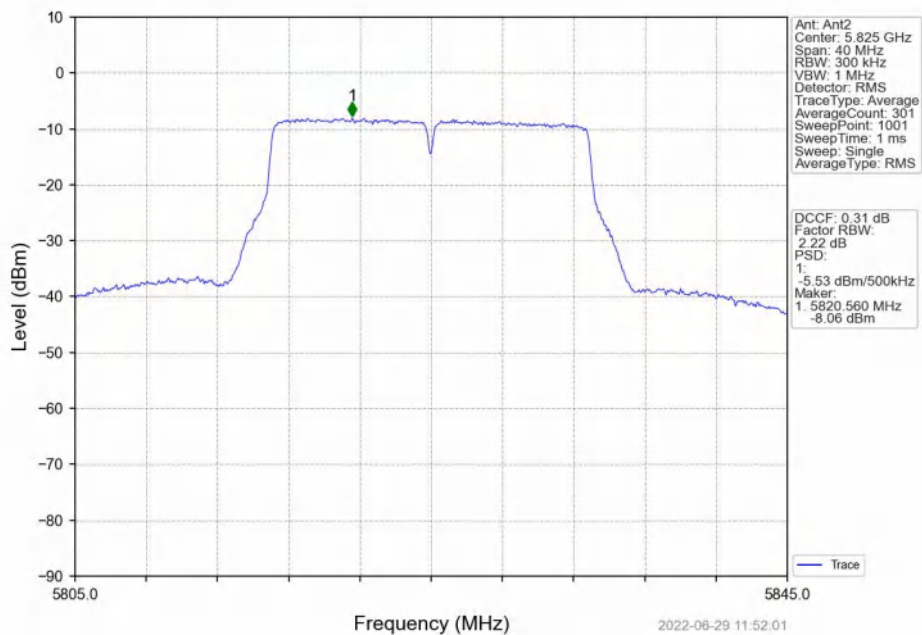
802.11ac(VHT20)\_MCH\_5785MHz\_MIMO\_NTNV



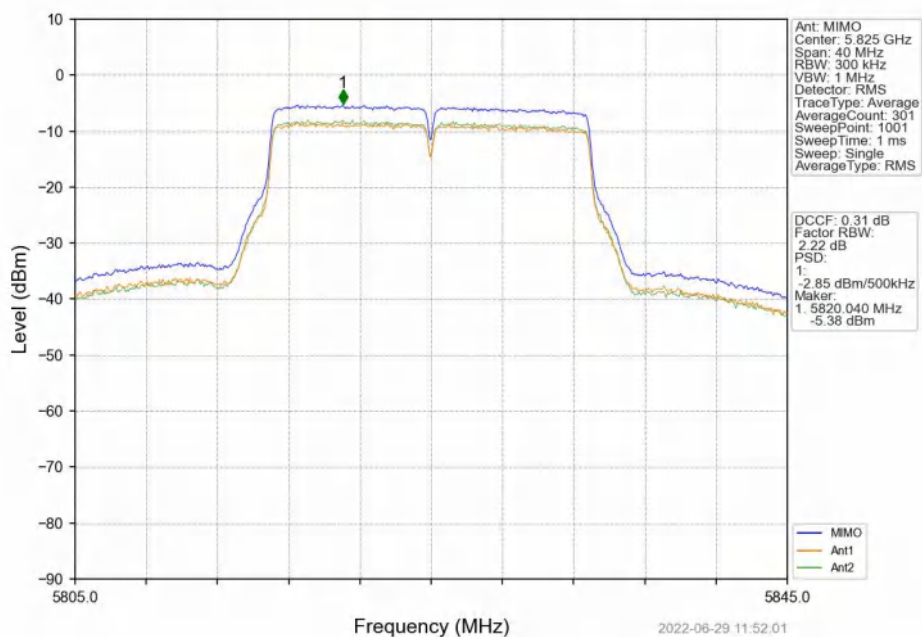
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



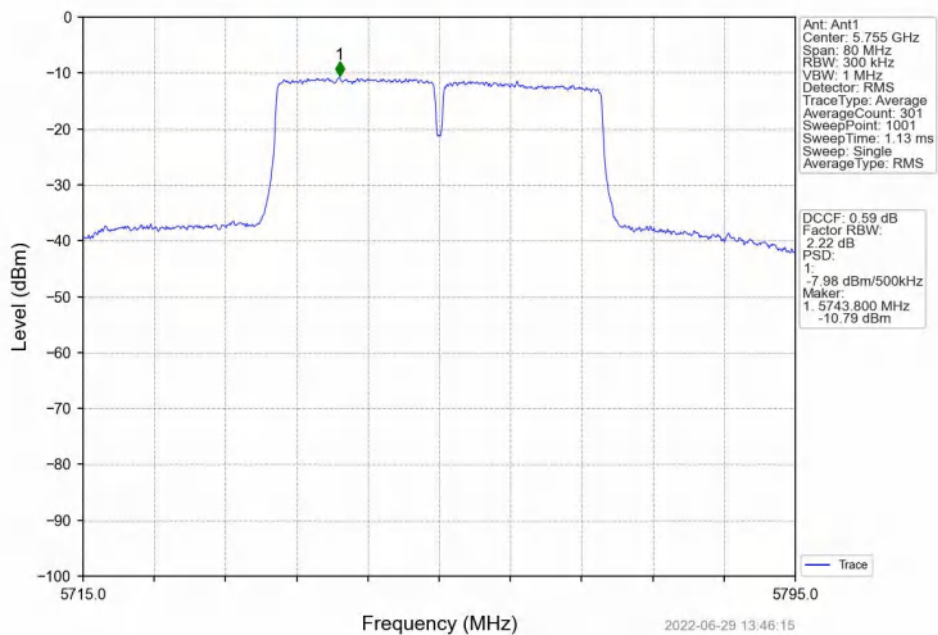
802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



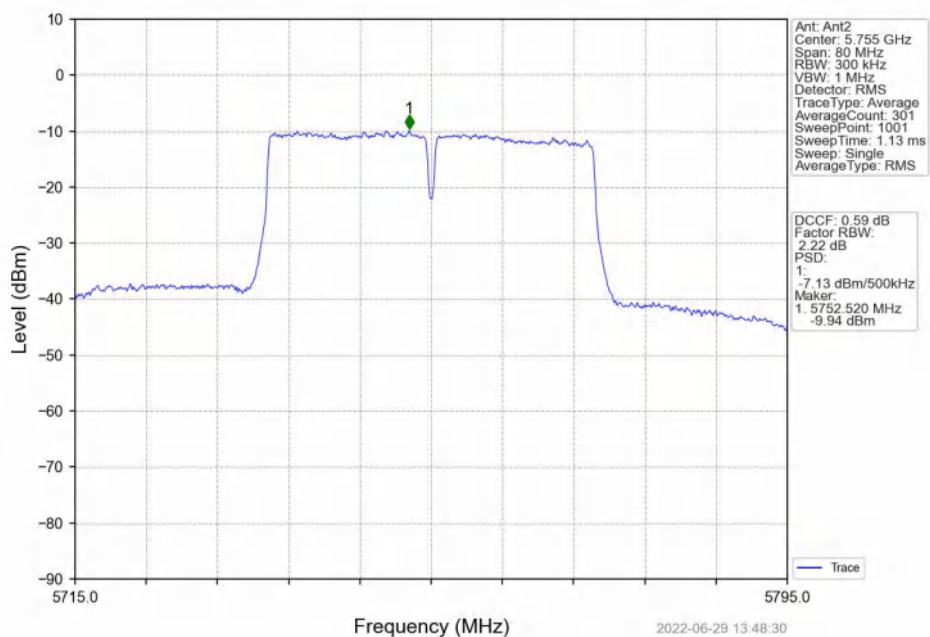
802.11ac(VHT20)\_HCH\_5825MHz\_MIMO\_NTNV



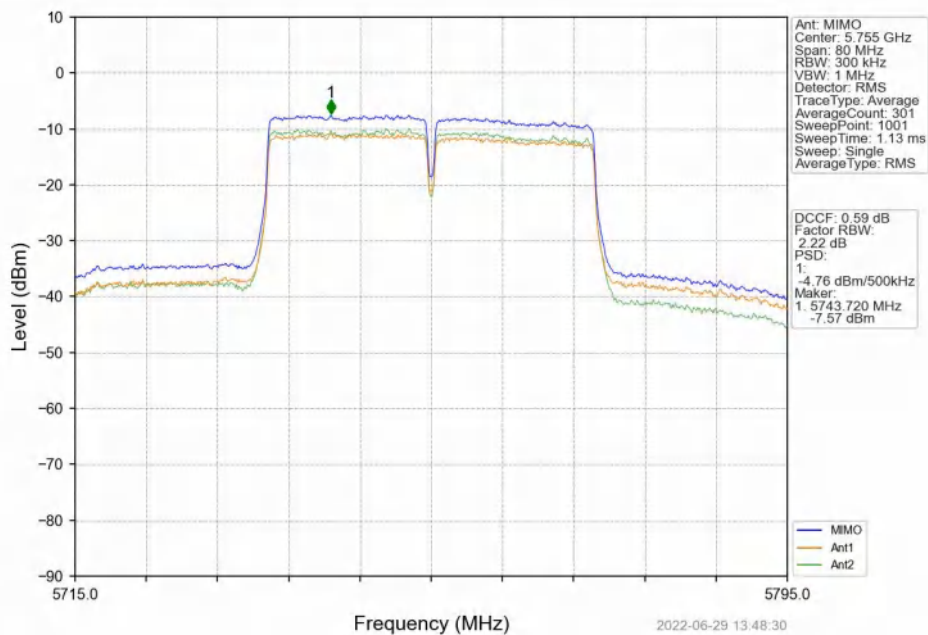
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



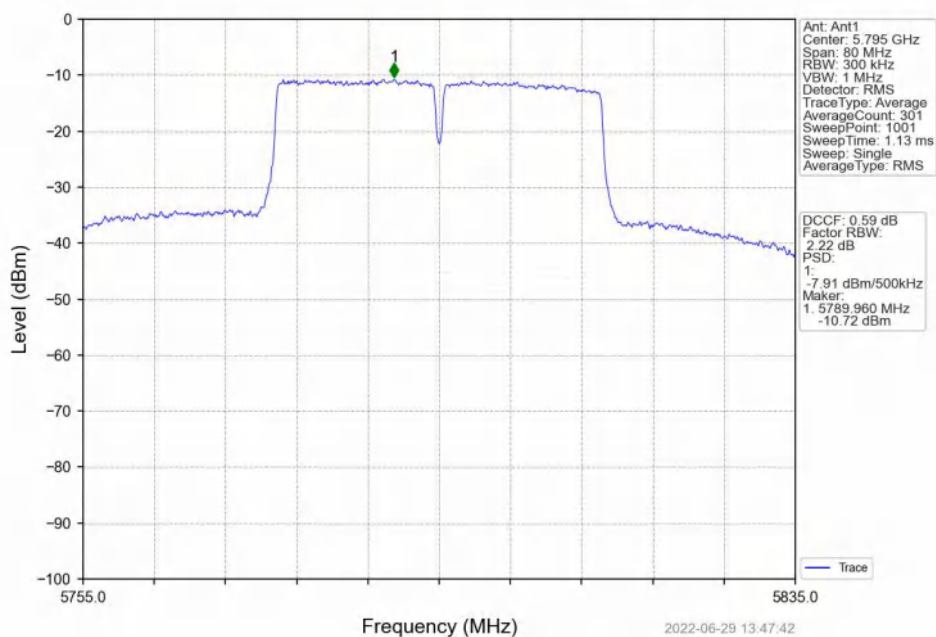
802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



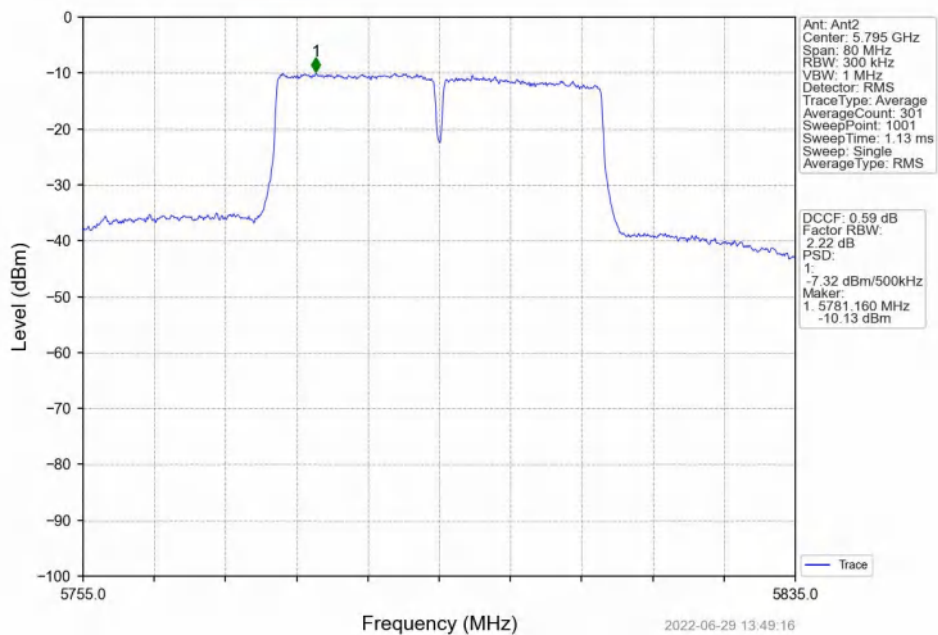
802.11ac(VHT40)\_LCH\_5755MHz\_MIMO\_NTNV



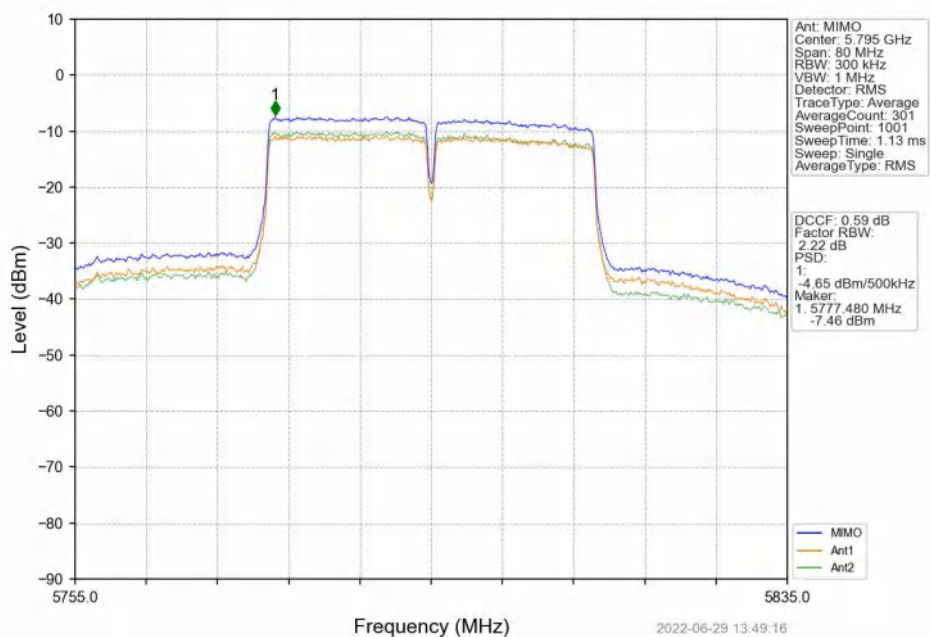
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



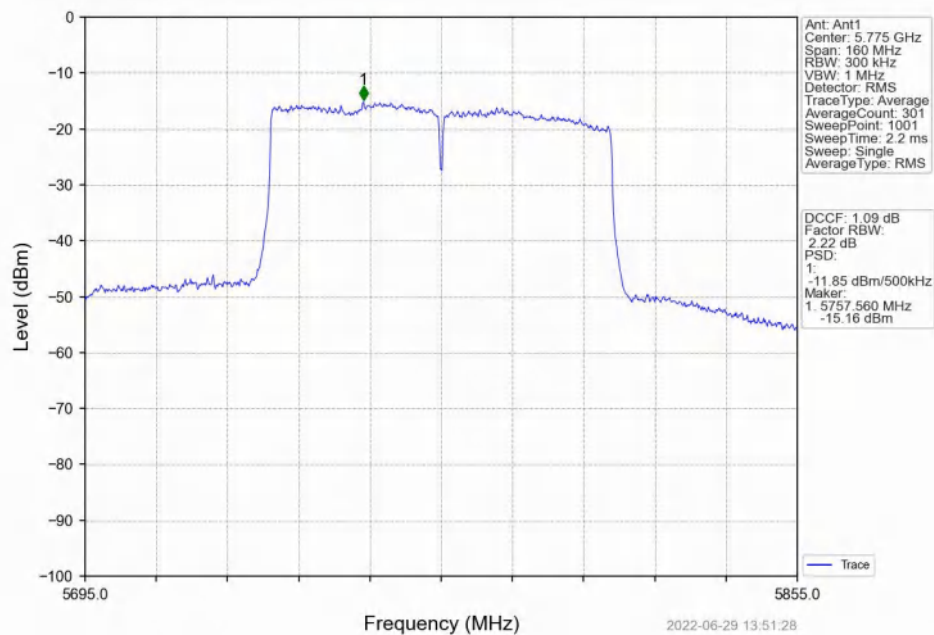
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



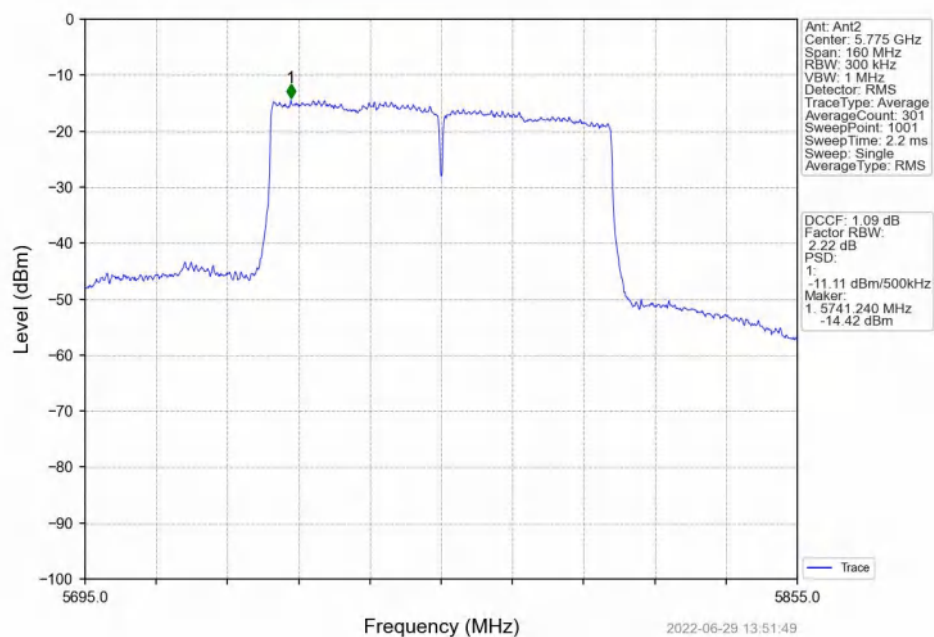
802.11ac(VHT40)\_HCH\_5795MHz\_MIMO\_NTNV



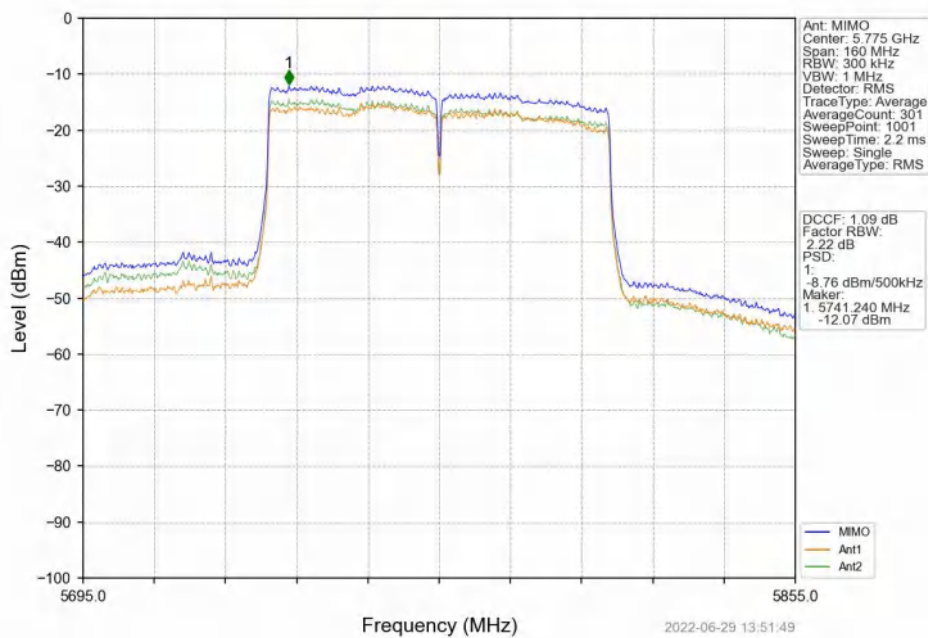
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



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



## 5. Frequency Stability

## 5.1 Ant1

## 5.1.1 Test Result

| Ant1         |         |                 |                  |               |                          |              |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5745            | 20               | 102           | 5744.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5744.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5744.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5744.925                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5744.925                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5744.925                 | 5725 to 5850 | Pass    |
|              |         | 5785            | 20               | 102           | 5784.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5784.924                 | 5725 to 5850 | Pass    |
|              |         | 5825            | 20               | 102           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5824.923                 | 5725 to 5850 | Pass    |
|              |         | 5755            | 20               | 102           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5754.924                 | 5725 to 5850 | Pass    |
|              |         | 5795            | 20               | 102           | 5794.923                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5794.924                 | 5725 to 5850 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      |     | 138 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5794.924 | 5725 to 5850 | Pass |
|  |  | 5775 | 20  | 102 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5774.924 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5774.924 | 5725 to 5850 | Pass |

## 6. Form731

### 6.1 Form731

#### 6.1.1 Test Result

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 5745             | 5825            | 0.0161        | 12.06           |
| 5755             | 5795            | 0.0185        | 12.67           |
| 5775             | 5775            | 0.0121        | 10.82           |