

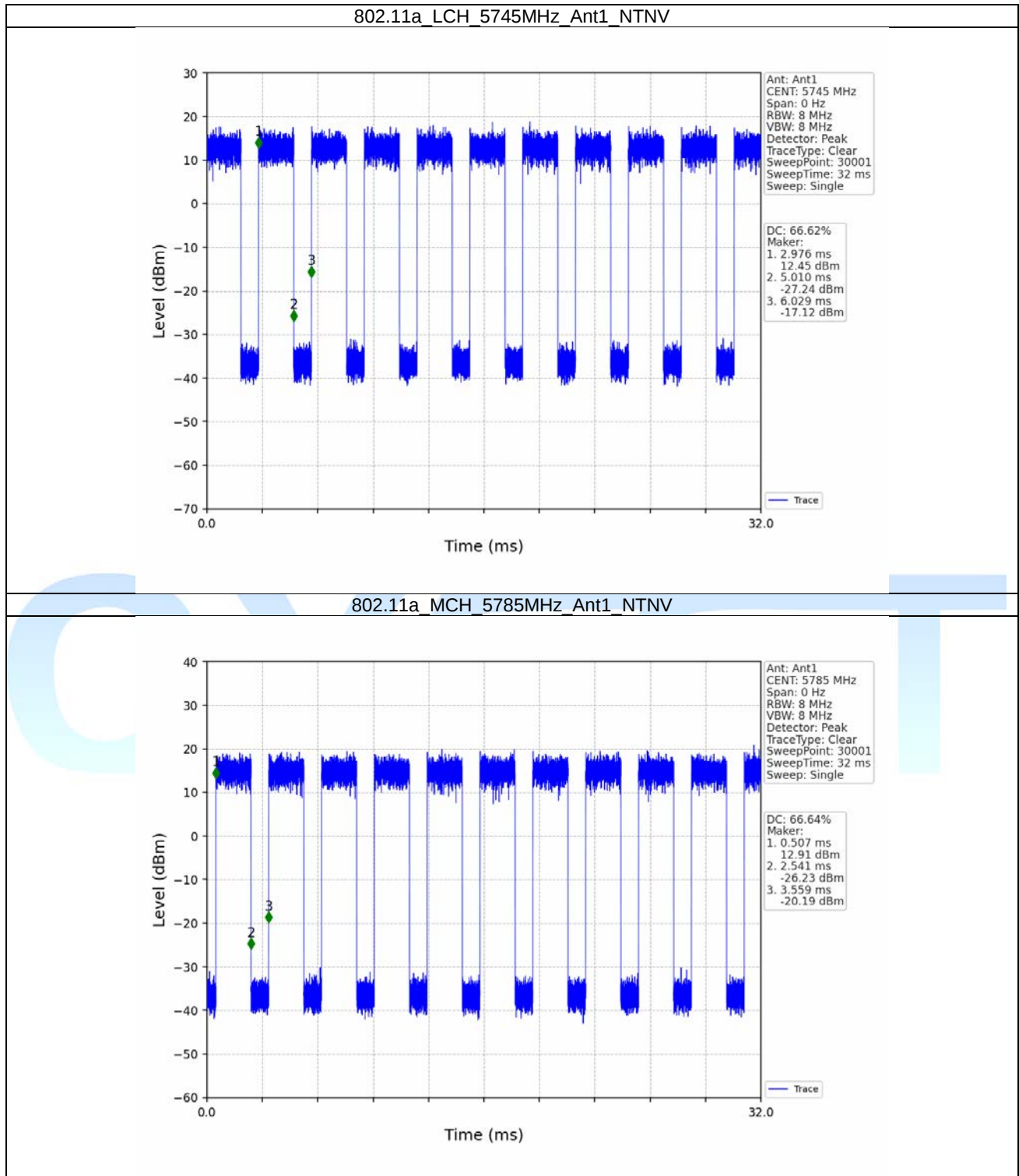
## 1. Duty Cycle

### 1.1 Ant1

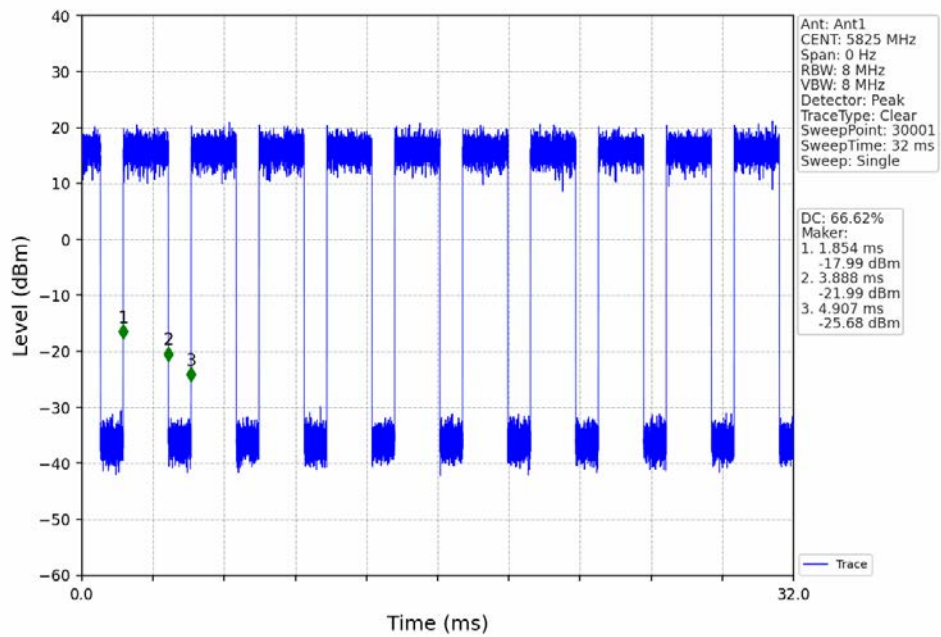
#### 1.1.1 Test Result

| 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            | 2.034     | 3.053       | 66.62          | 1.76                              | 0.10                  |
|                  |         | 5785            | 2.034     | 3.052       | 66.64          | 1.76                              | 0.07                  |
|                  |         | 5825            | 2.034     | 3.053       | 66.62          | 1.76                              | 0.01                  |
| 802.11n (HT20)   | SISO    | 5745            | 1.894     | 2.913       | 65.02          | 1.87                              | 0.11                  |
|                  |         | 5785            | 1.894     | 2.913       | 65.02          | 1.87                              | 0.03                  |
|                  |         | 5825            | 1.894     | 3.123       | 60.65          | 2.17                              | 4.41                  |
| 802.11n (HT40)   | SISO    | 5755            | 0.933     | 1.952       | 47.80          | 3.21                              | 0.03                  |
|                  |         | 5795            | 0.933     | 1.952       | 47.80          | 3.21                              | 0.02                  |
| 802.11ac (VHT20) | SISO    | 5745            | 1.902     | 2.921       | 65.11          | 1.86                              | 0.03                  |
|                  |         | 5785            | 1.902     | 2.921       | 65.11          | 1.86                              | 0.03                  |
|                  |         | 5825            | 1.902     | 3.175       | 59.91          | 2.23                              | 5.35                  |
| 802.11ac (VHT40) | SISO    | 5755            | 0.938     | 1.958       | 47.91          | 3.20                              | 0.02                  |
|                  |         | 5795            | 0.937     | 1.956       | 47.90          | 3.20                              | 0.02                  |

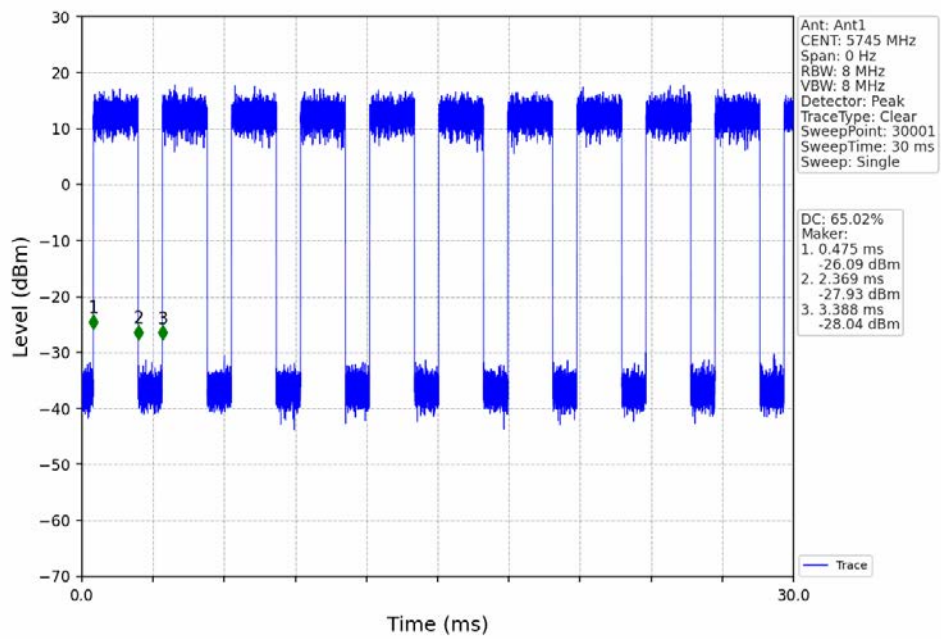
## 1.1.2 Test Graph



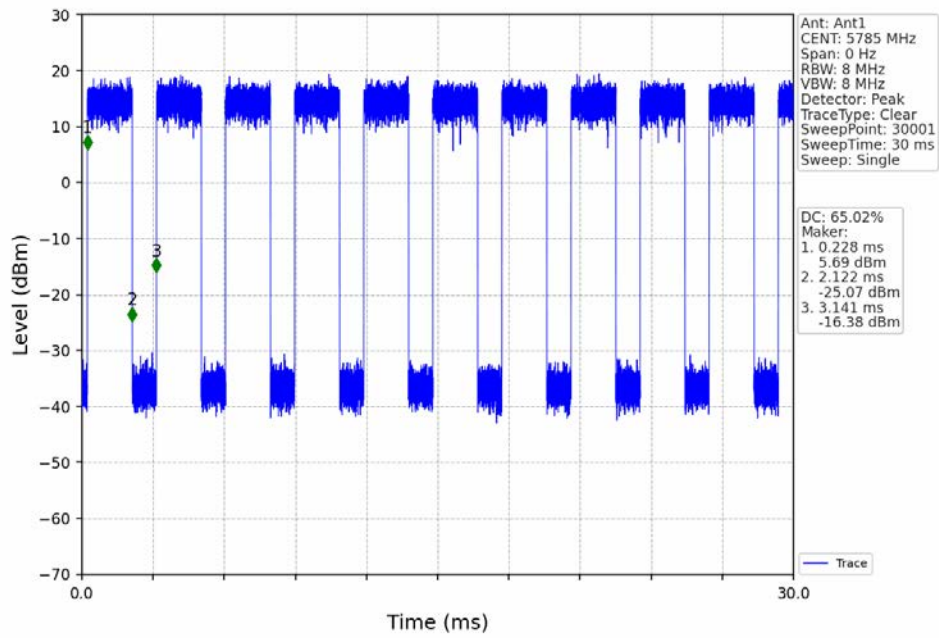
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



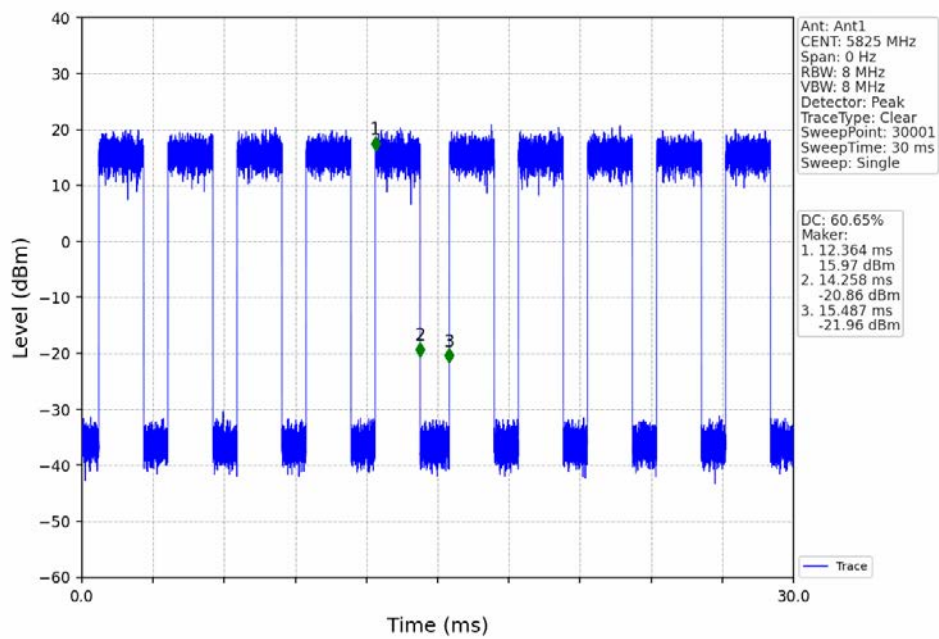
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



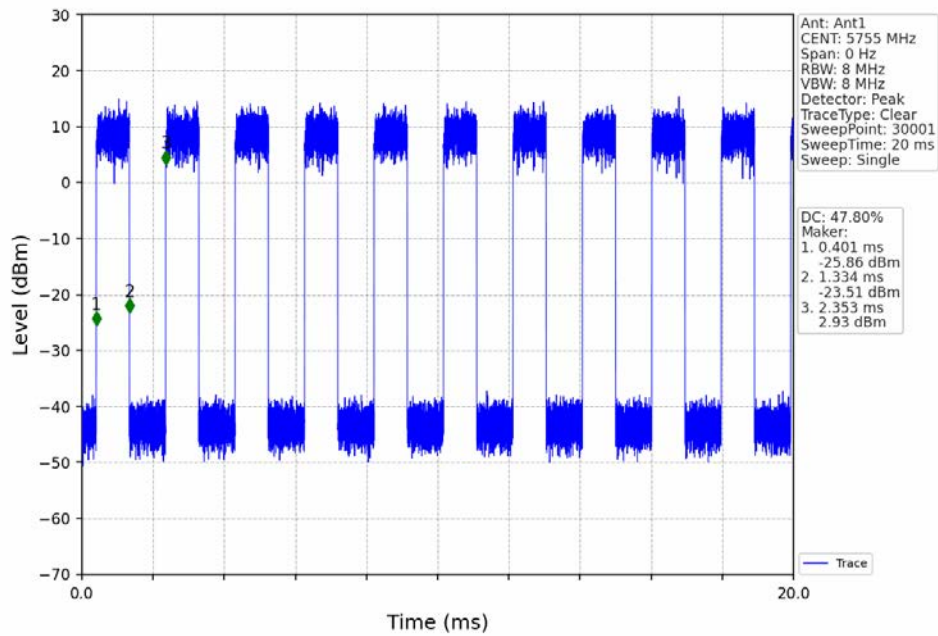
802.11n(HT20) MCH 5785MHz\_Ant1\_NTNV



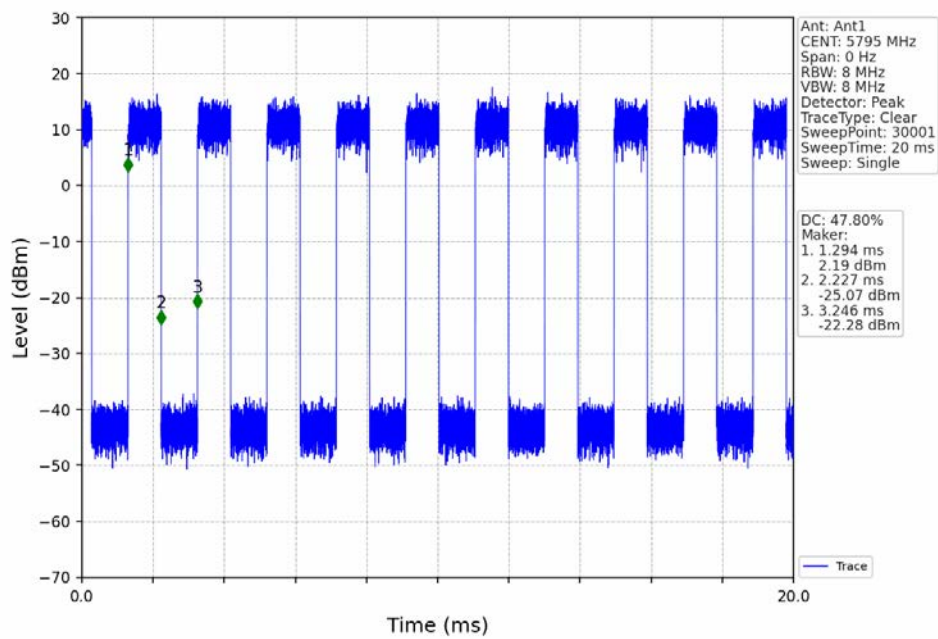
802.11n(HT20) HCH 5825MHz\_Ant1\_NTNV



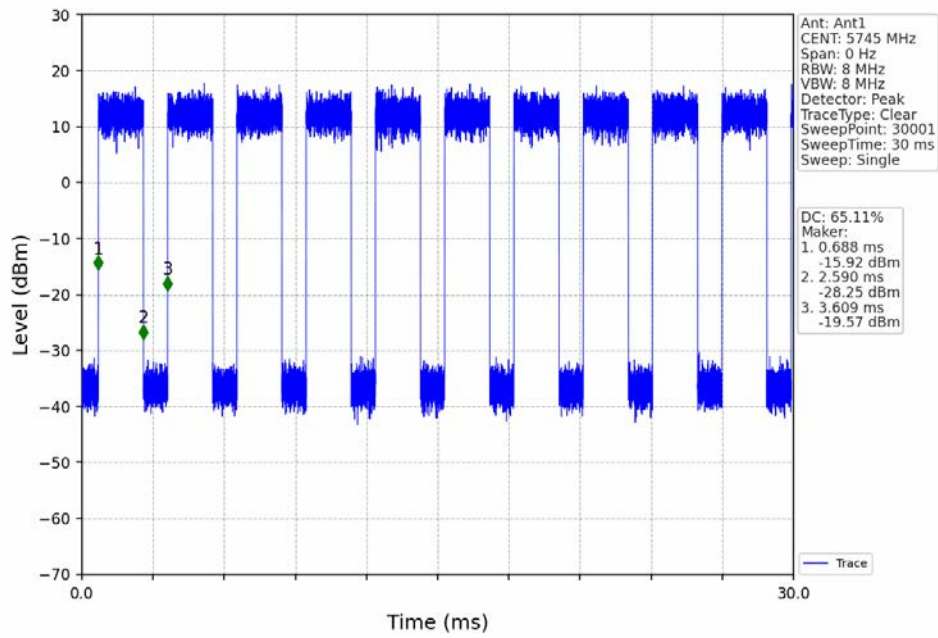
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



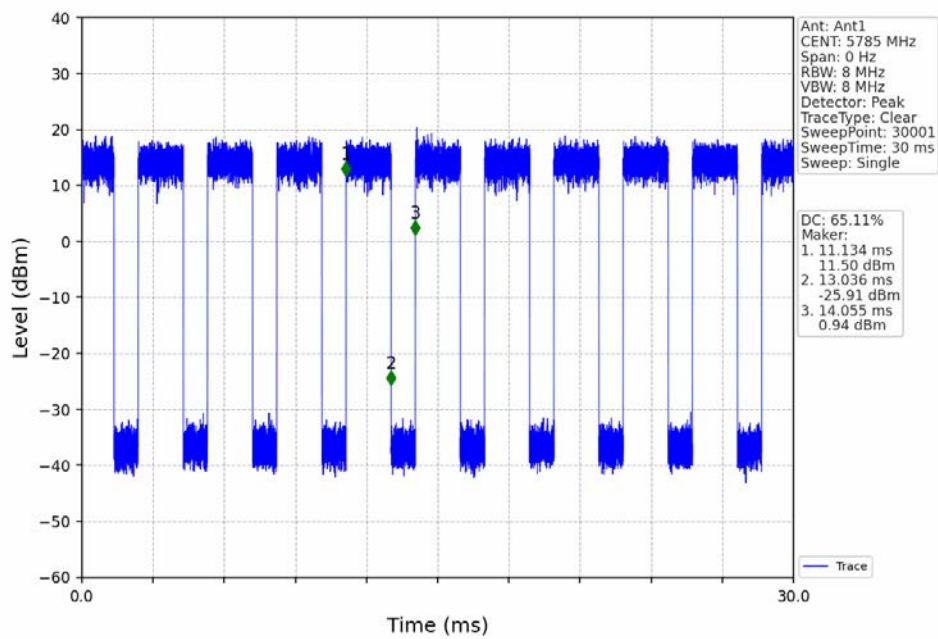
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



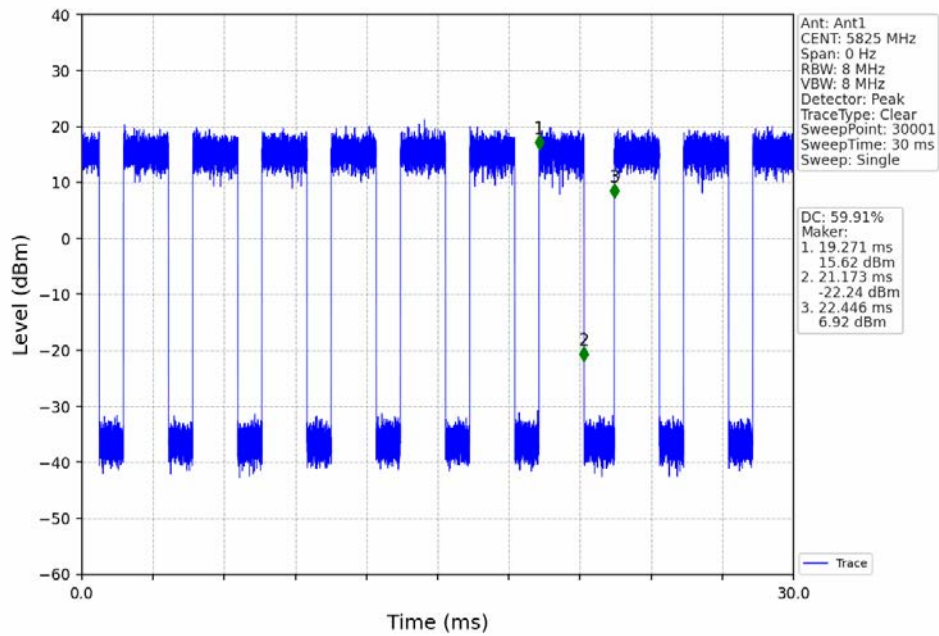
802.11ac(VHT20) LCH 5745MHz Ant1\_NTNV



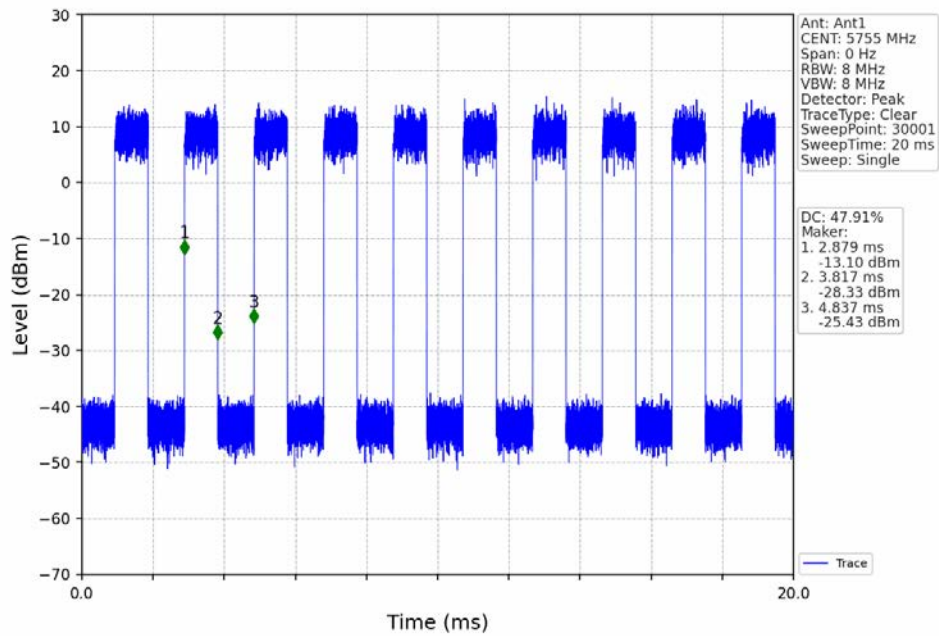
802.11ac(VHT20) MCH 5785MHz Ant1\_NTNV

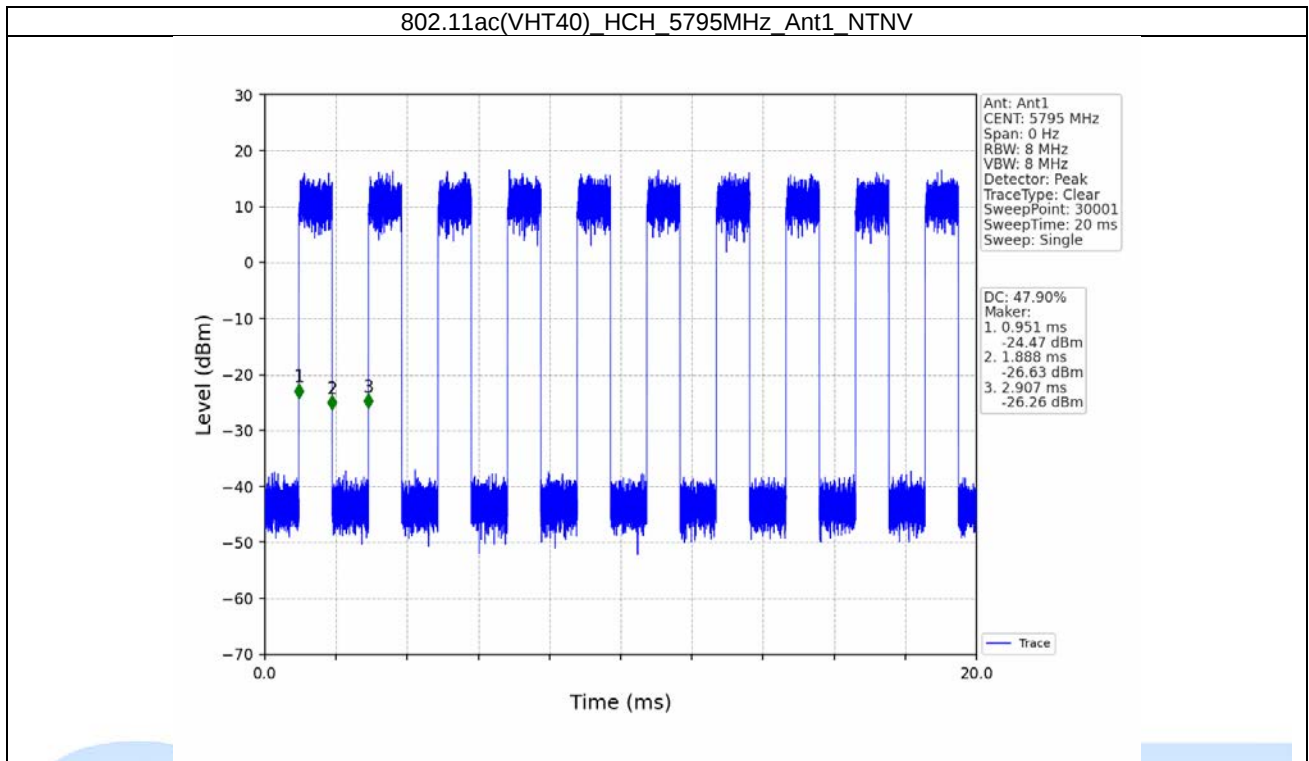


802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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





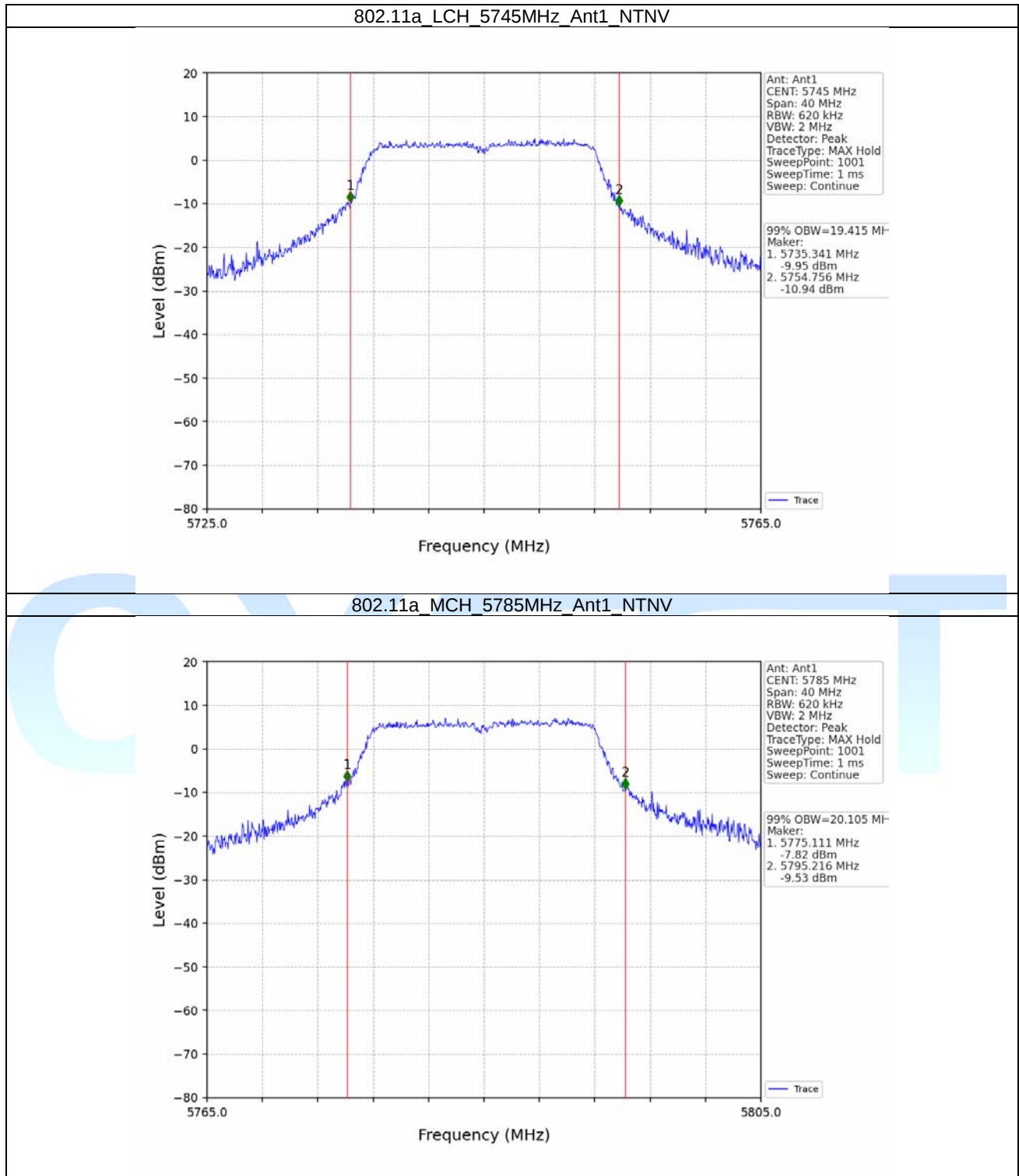
## 2. Bandwidth

### 2.1 OBW

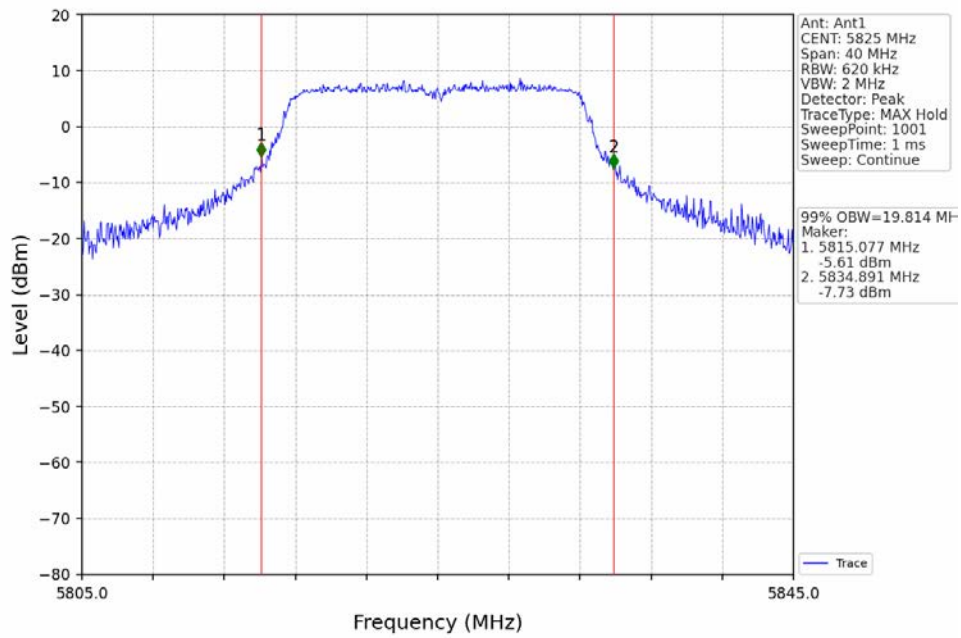
#### 2.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|------------------------------|-------|---------|
|                  |         |                 |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5745            | 1   | 19.415                       | /     | Pass    |
|                  |         | 5785            | 1   | 20.105                       | /     | Pass    |
|                  |         | 5825            | 1   | 19.814                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 20.221                       | /     | Pass    |
|                  |         | 5785            | 1   | 20.626                       | /     | Pass    |
|                  |         | 5825            | 1   | 20.550                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 38.691                       | /     | Pass    |
|                  |         | 5795            | 1   | 38.775                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 20.013                       | /     | Pass    |
|                  |         | 5785            | 1   | 20.581                       | /     | Pass    |
|                  |         | 5825            | 1   | 20.232                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 38.894                       | /     | Pass    |
|                  |         | 5795            | 1   | 38.937                       | /     | Pass    |

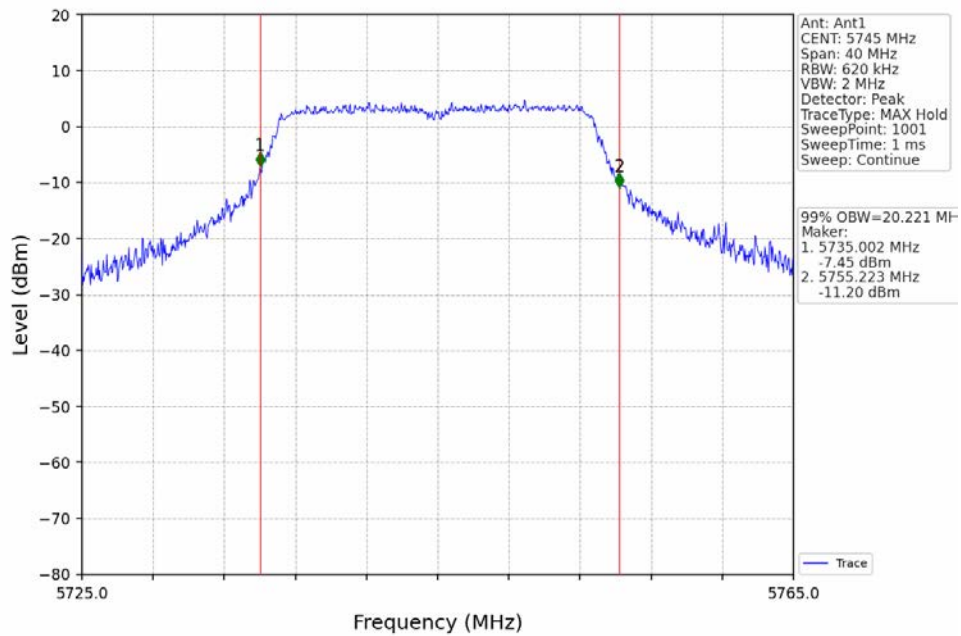
## 2.1.2 Test Graph



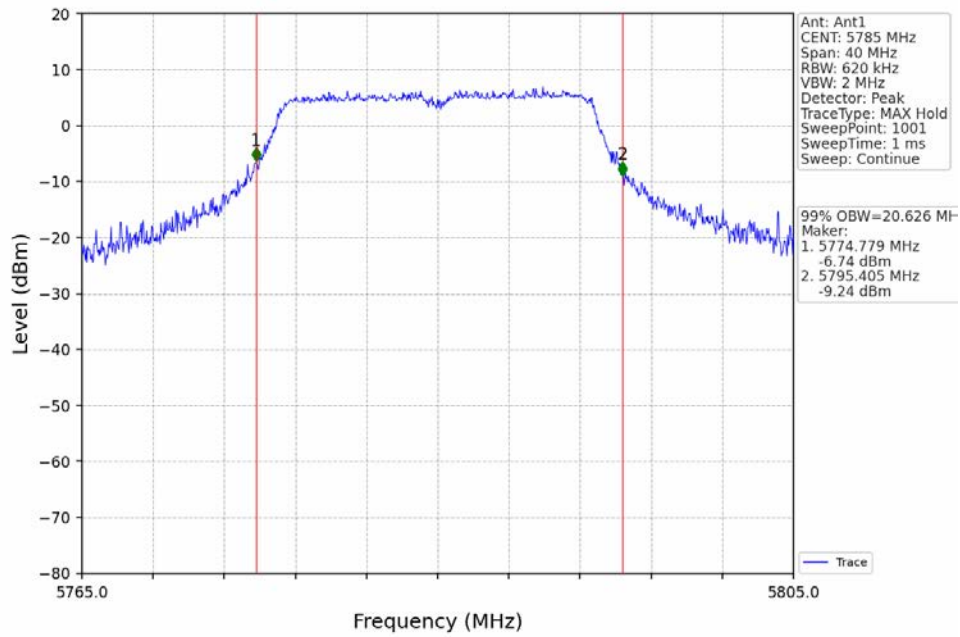
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



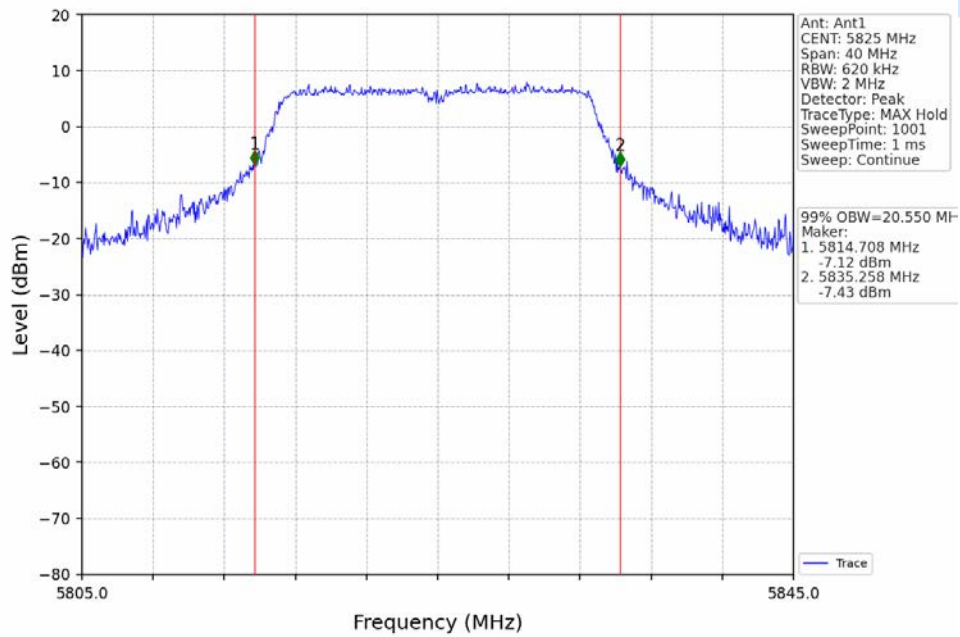
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



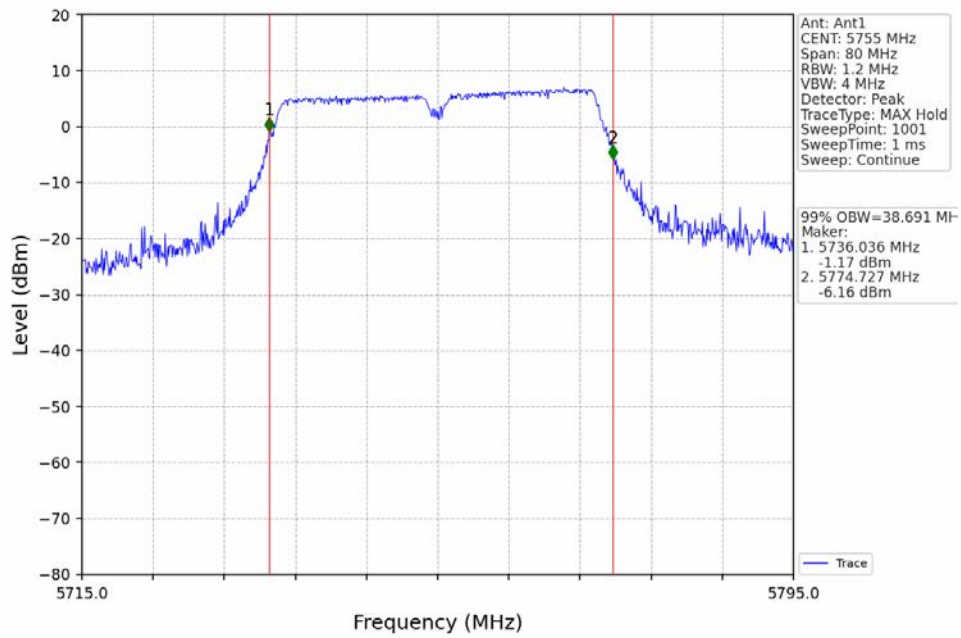
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



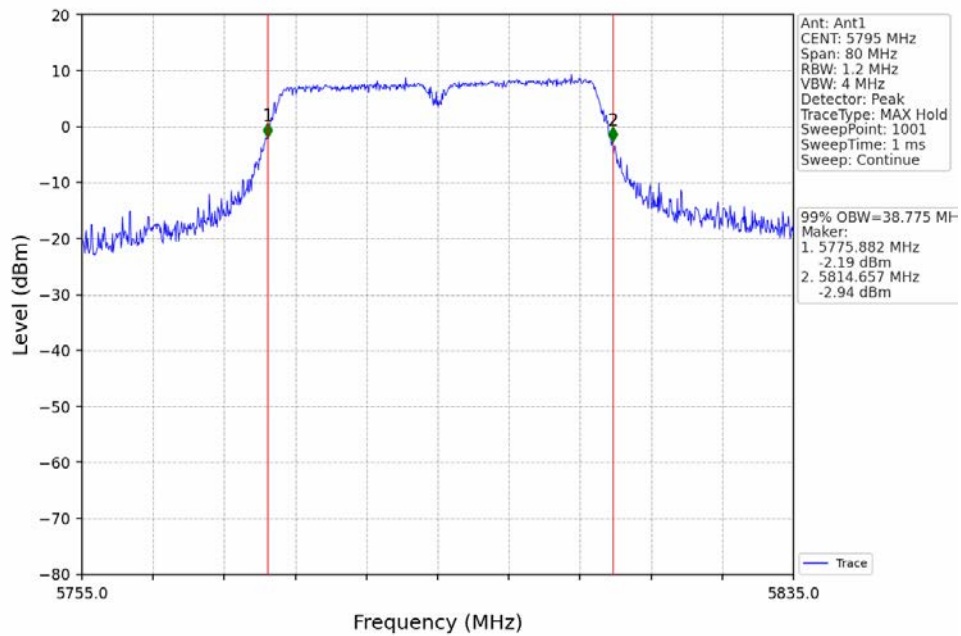
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



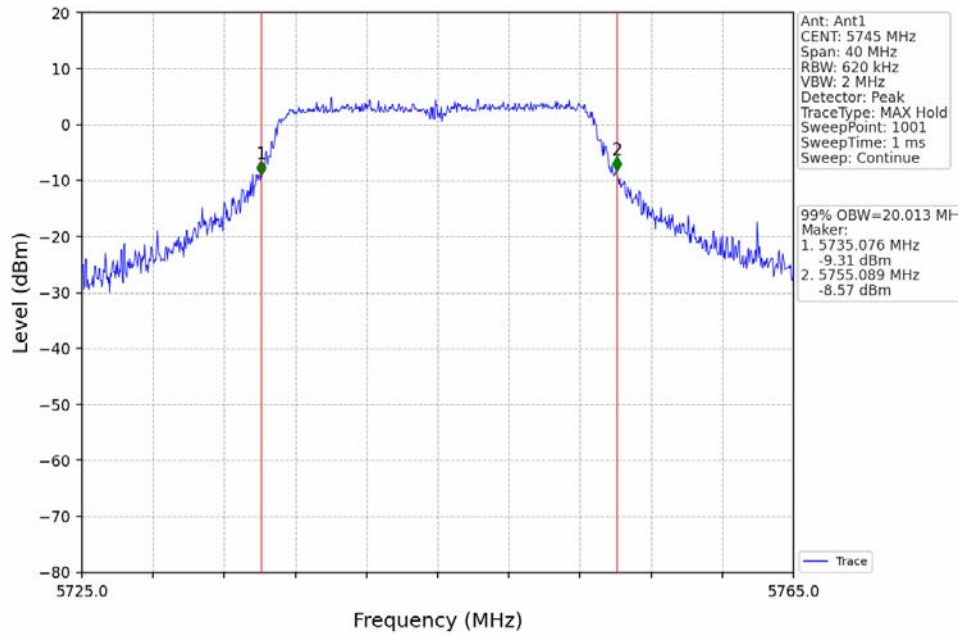
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



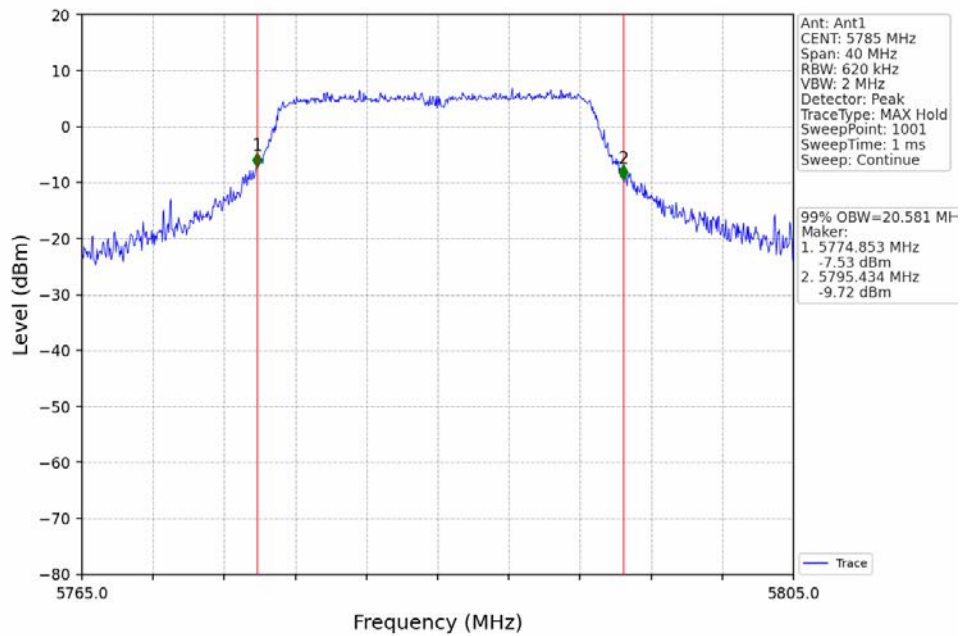
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



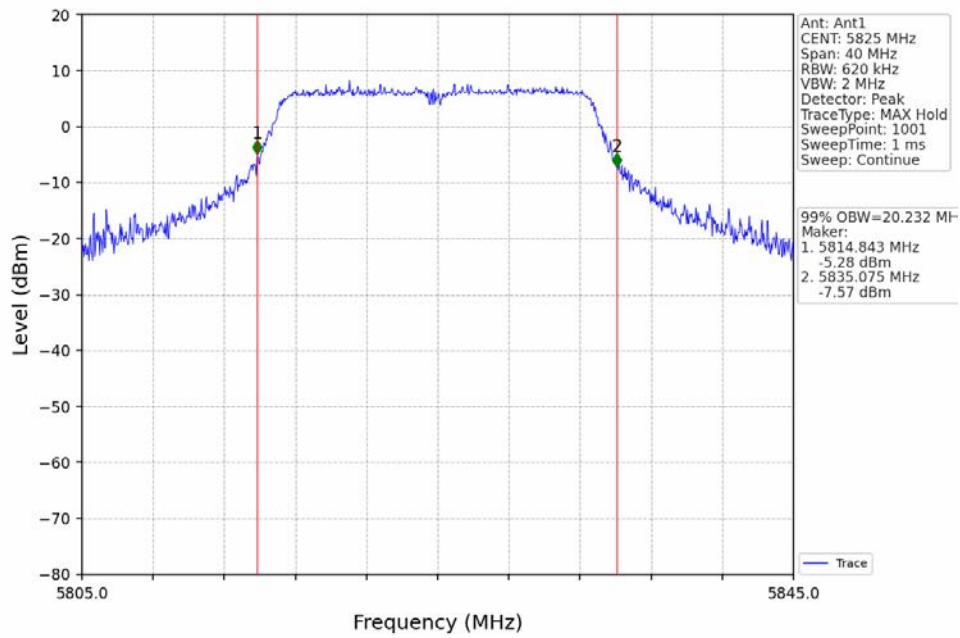
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



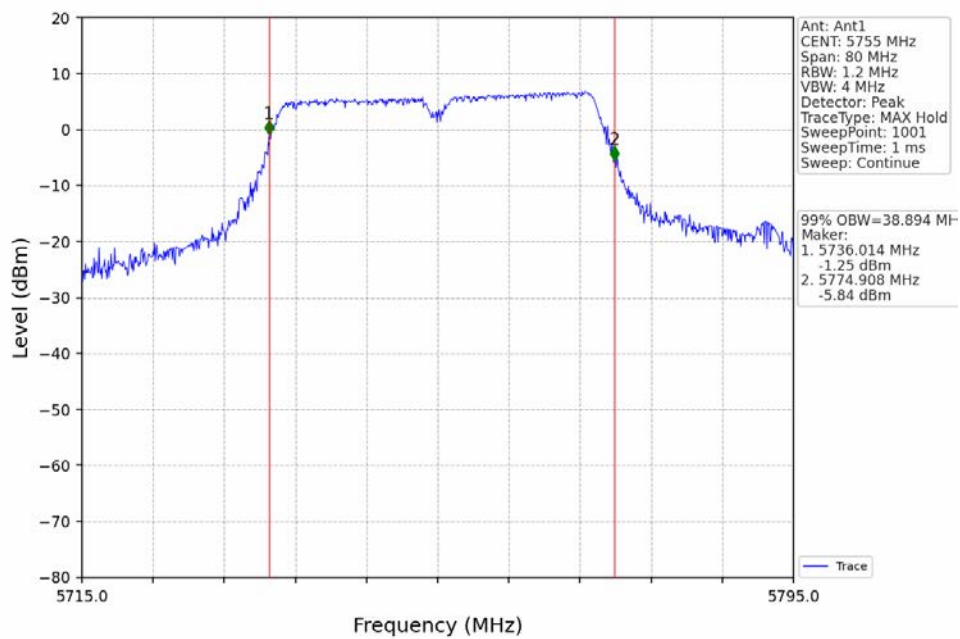
802.11ac(VHT20) MCH 5785MHz Ant1 NTN

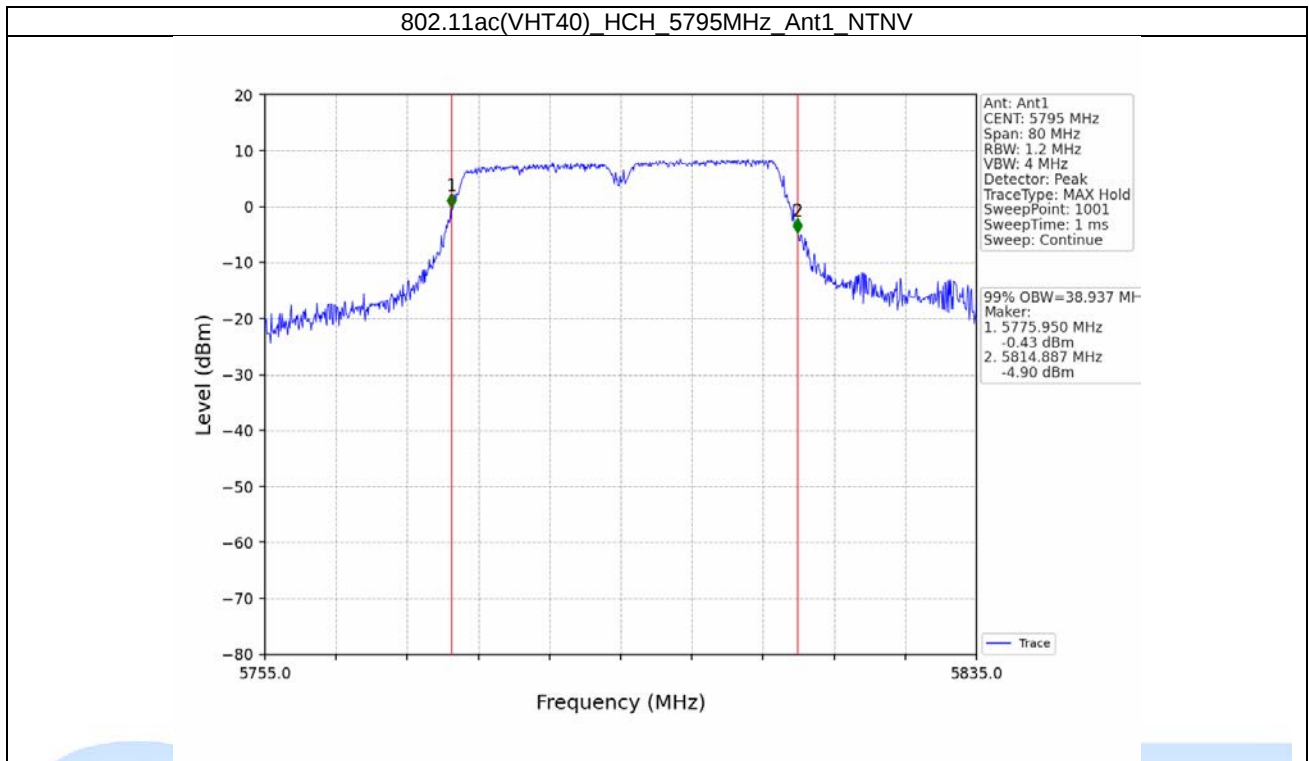


802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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



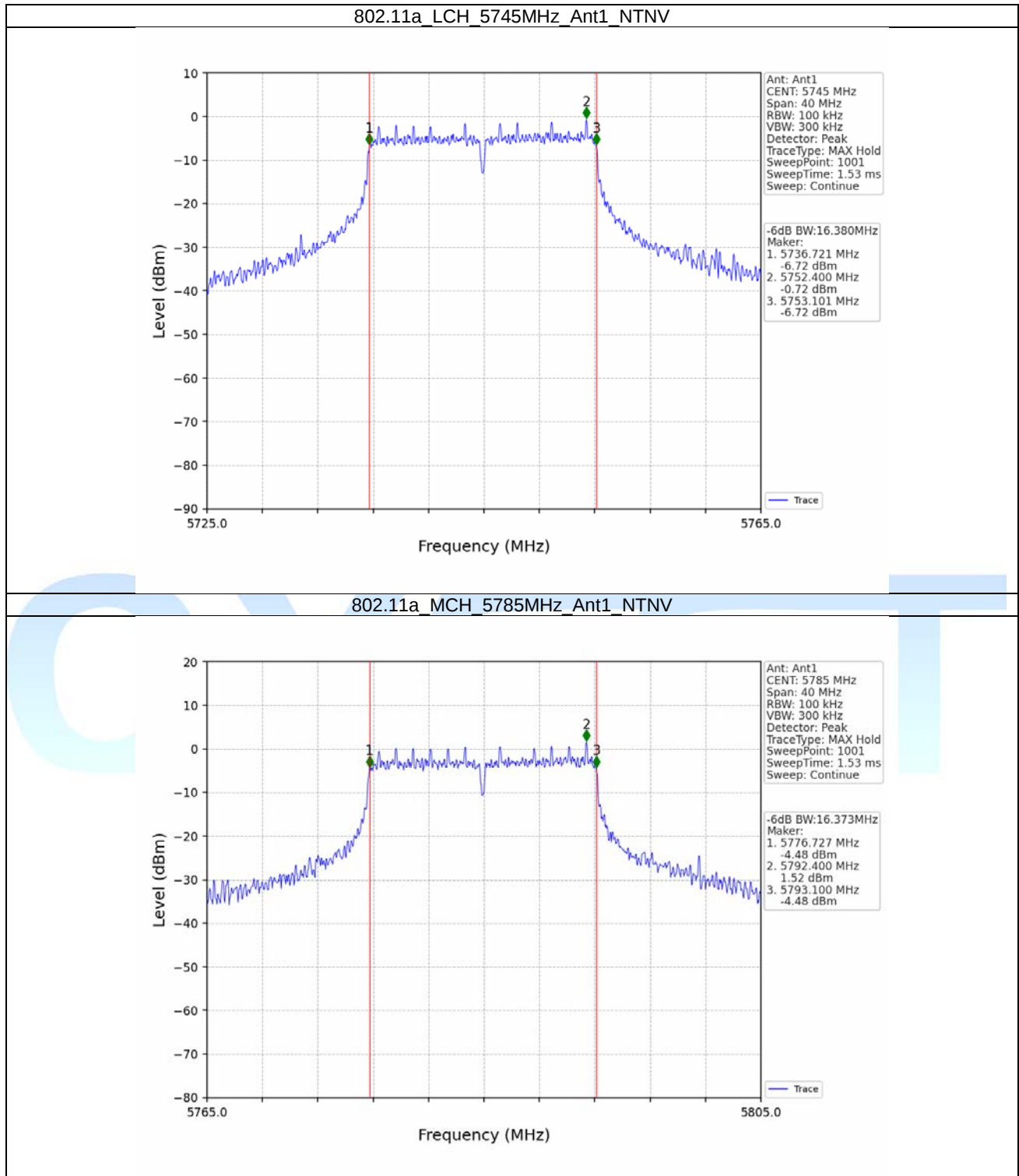


## 2.2 6dB BW

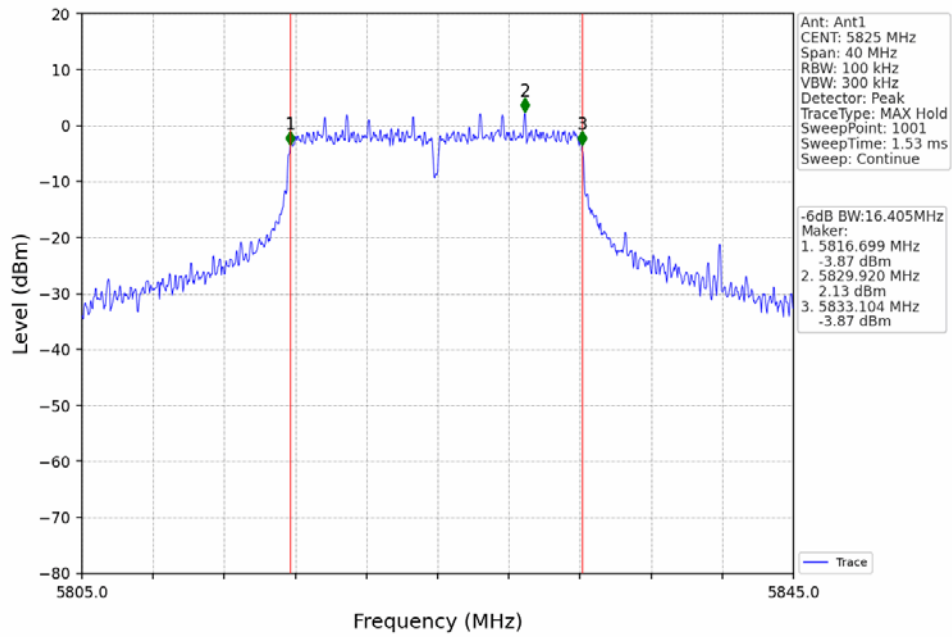
### 2.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | 1   | 16.380              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.373              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.405              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 17.615              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.622              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.626              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 35.778              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.772              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 17.608              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.609              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.619              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 35.778              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 36.351              | $\geq 0.5$ | Pass    |

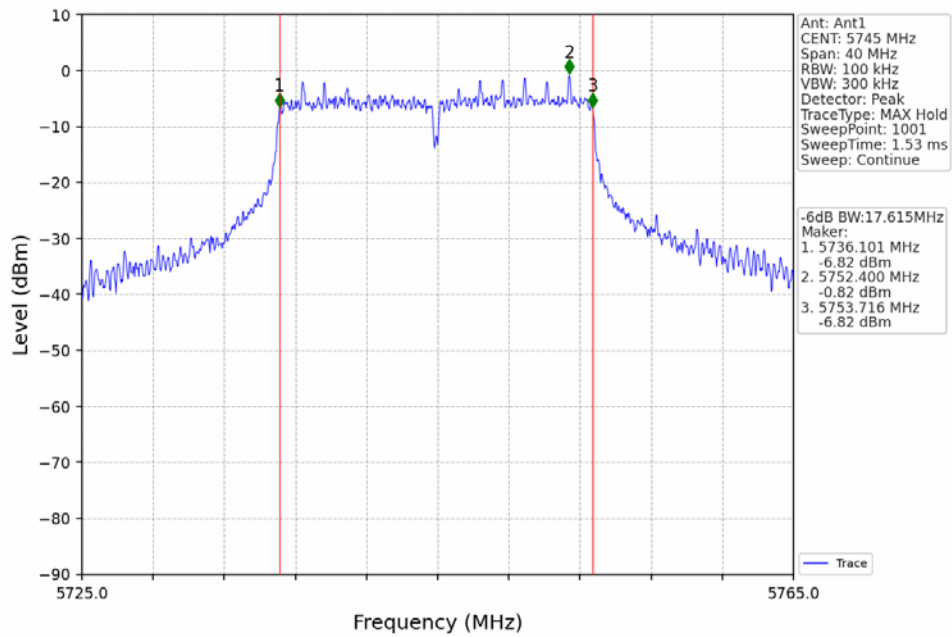
## 2.2.2 Test Graph



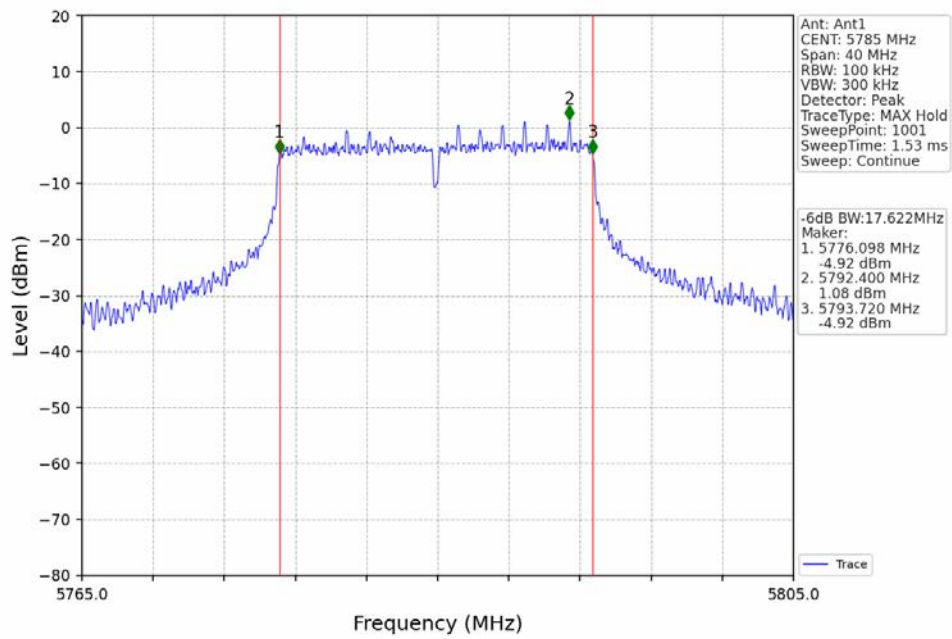
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



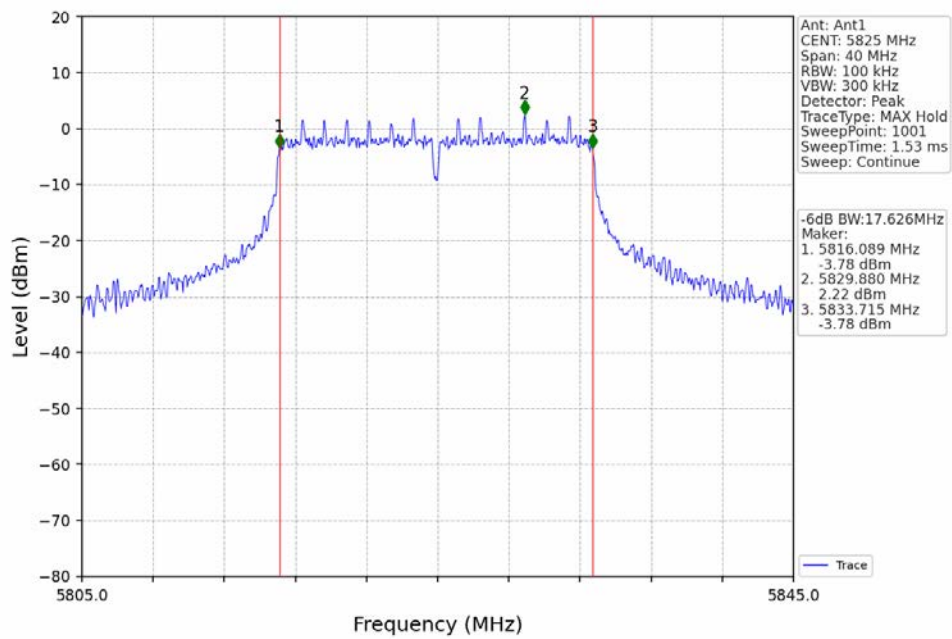
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



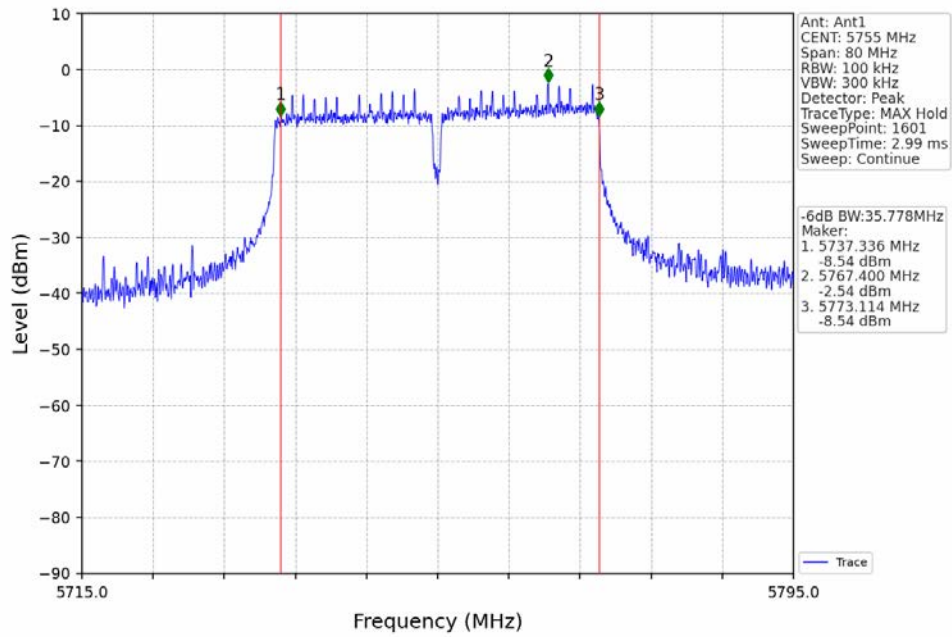
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



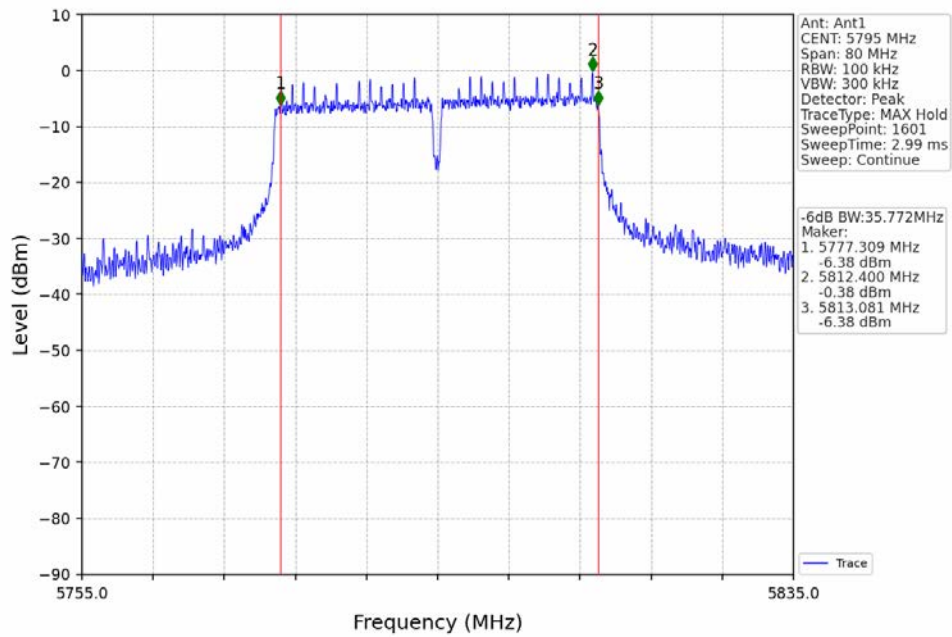
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



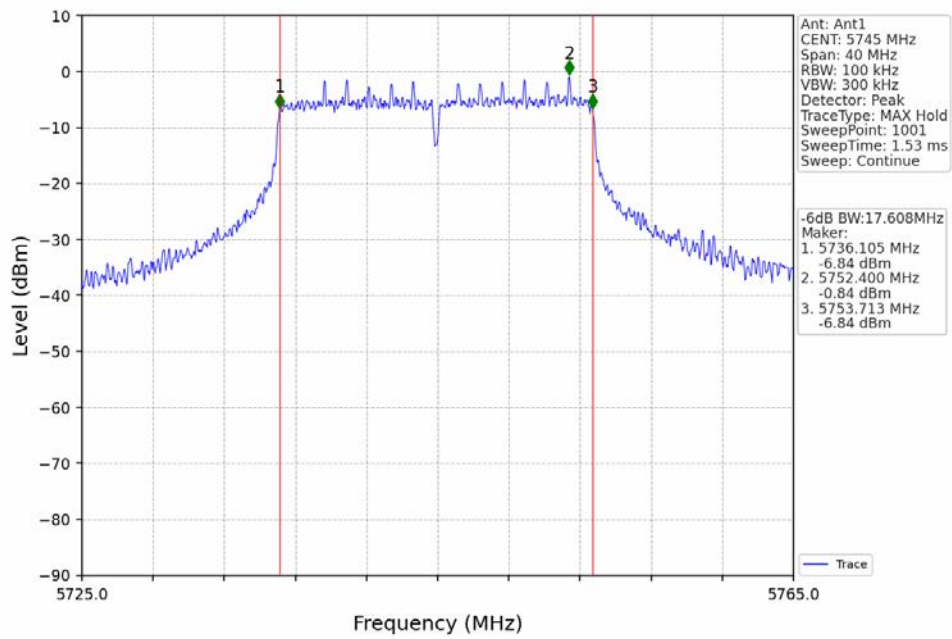
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



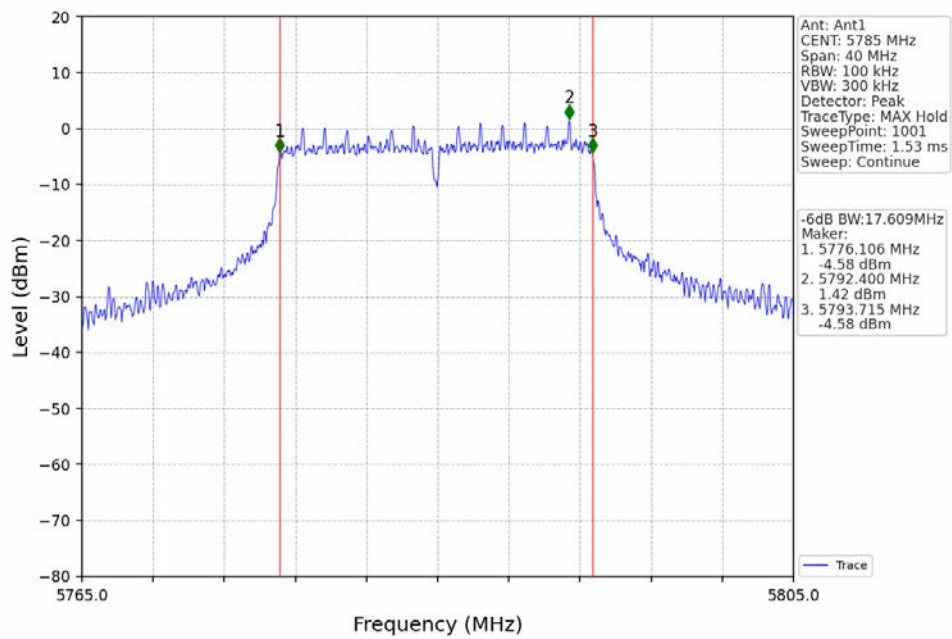
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



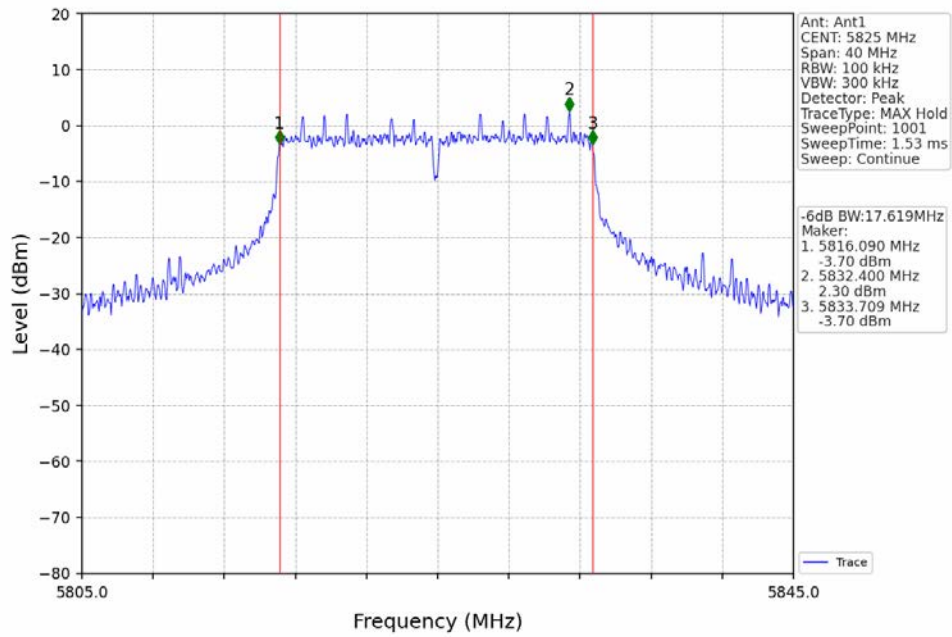
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



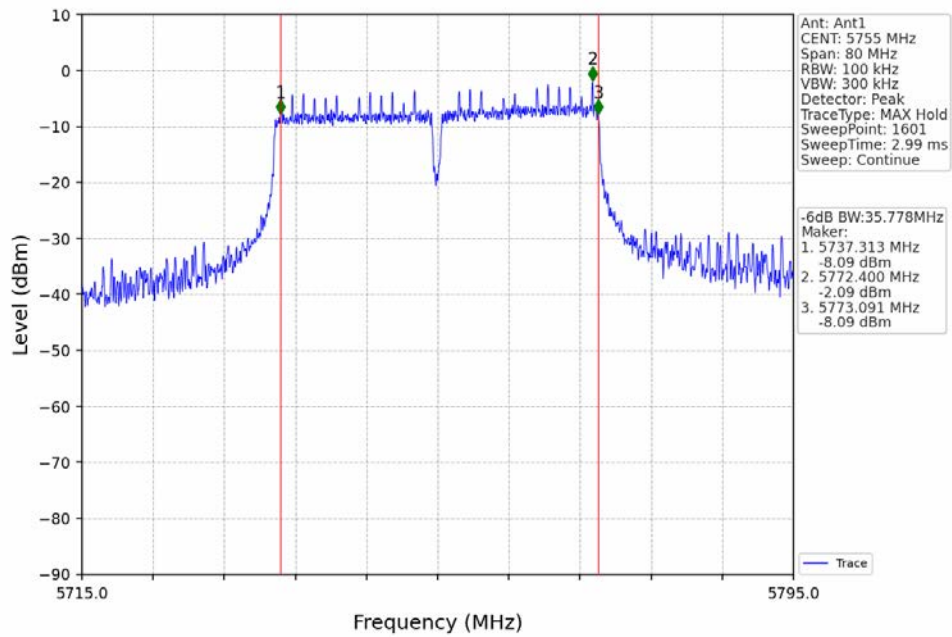
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

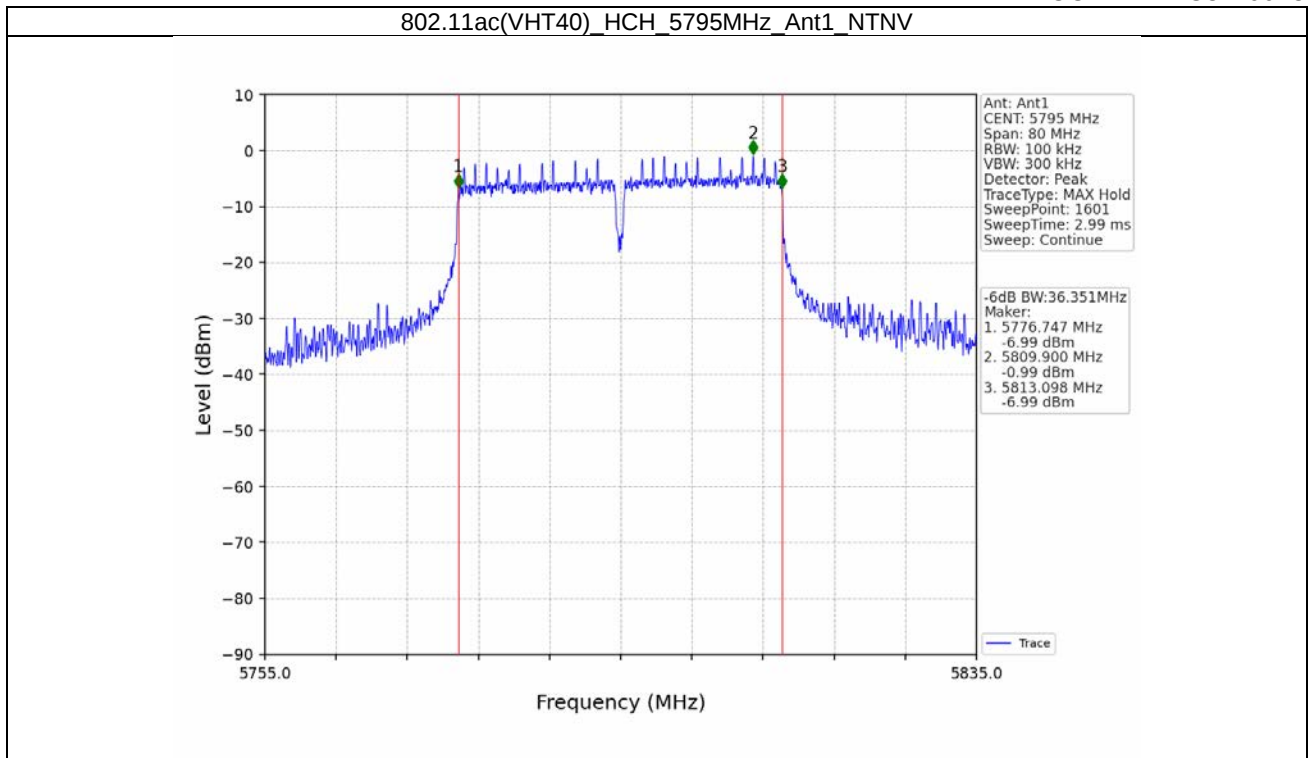


802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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





### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                  |         |                 | ANT1                                         | Limit |         |
| 802.11a          | SISO    | 5745            | 10.70                                        | <=30  | Pass    |
|                  |         | 5785            | 12.58                                        | <=30  | Pass    |
|                  |         | 5825            | 13.55                                        | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 10.43                                        | <=30  | Pass    |
|                  |         | 5785            | 12.44                                        | <=30  | Pass    |
|                  |         | 5825            | 13.94                                        | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 11.18                                        | <=30  | Pass    |
|                  |         | 5795            | 13.33                                        | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 10.32                                        | <=30  | Pass    |
|                  |         | 5785            | 12.33                                        | <=30  | Pass    |
|                  |         | 5825            | 13.84                                        | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 11.25                                        | <=30  | Pass    |
|                  |         | 5795            | 13.21                                        | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.62dBi;

### 4. Maximum Power Spectral Density

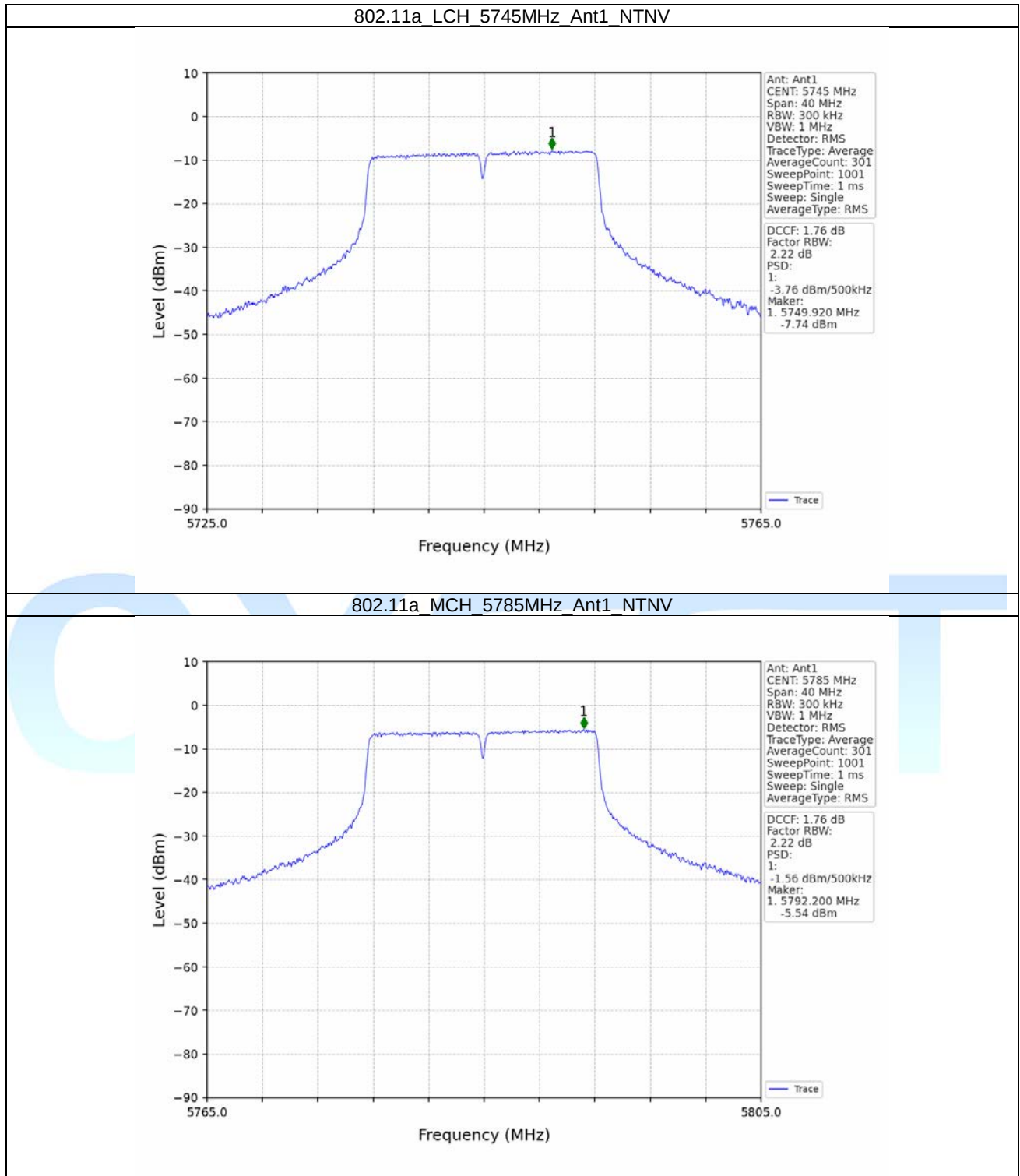
#### 4.1 PSD-Band3

##### 4.1.1 Test Result

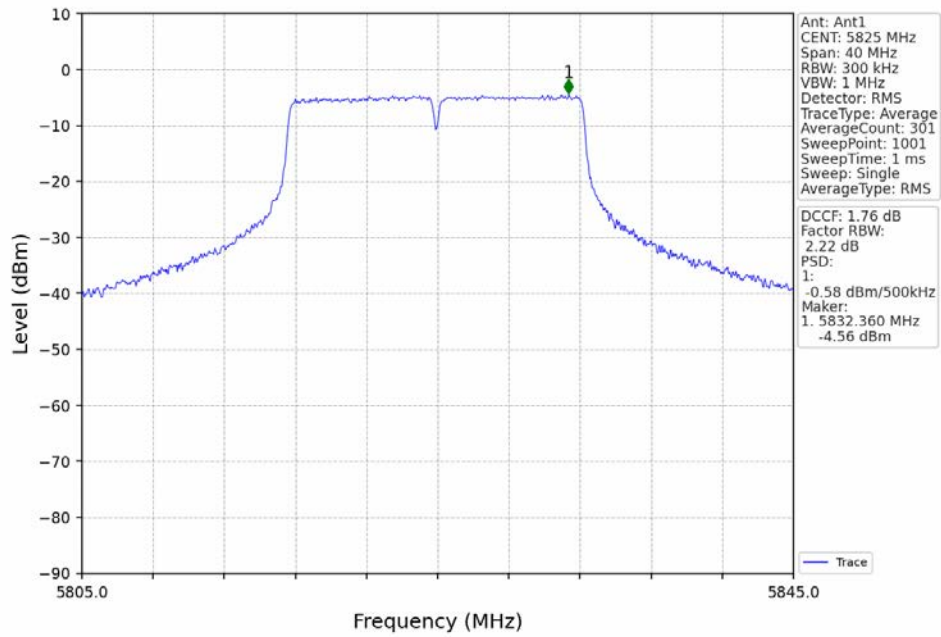
| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |       | Verdict |
|------------------|---------|-----------------|--------------------------|-------|---------|
|                  |         |                 | ANT1                     | Limit |         |
| 802.11a          | SISO    | 5745            | -3.76                    | <=30  | Pass    |
|                  |         | 5785            | -1.56                    | <=30  | Pass    |
|                  |         | 5825            | -0.58                    | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | -4.42                    | <=30  | Pass    |
|                  |         | 5785            | -2.13                    | <=30  | Pass    |
|                  |         | 5825            | -0.82                    | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | -5.65                    | <=30  | Pass    |
|                  |         | 5795            | -3.51                    | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | -3.76                    | <=30  | Pass    |
|                  |         | 5785            | -1.82                    | <=30  | Pass    |
|                  |         | 5825            | -0.92                    | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | -5.74                    | <=30  | Pass    |
|                  |         | 5795            | -3.52                    | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.62dBi;  
Note2: Result contains DCCF and RBW Correction Factor  
Note3: RBW Correction Factor= $10 \cdot \log(500\text{kHz}/\text{RBW}) = 10 \cdot \log(500\text{kHz}/300\text{kHz}) = 2.22$

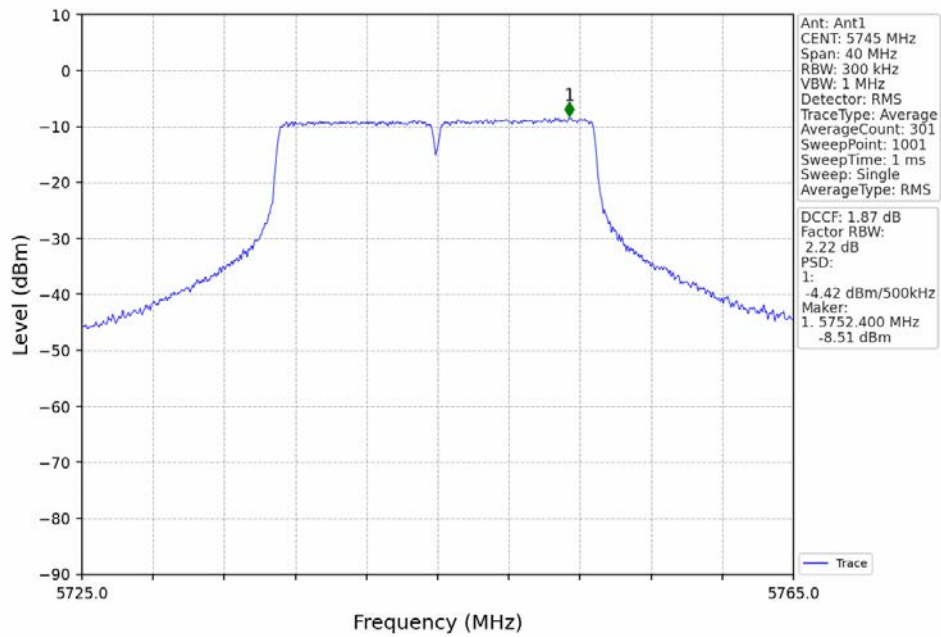
#### 4.1.2 Test Graph



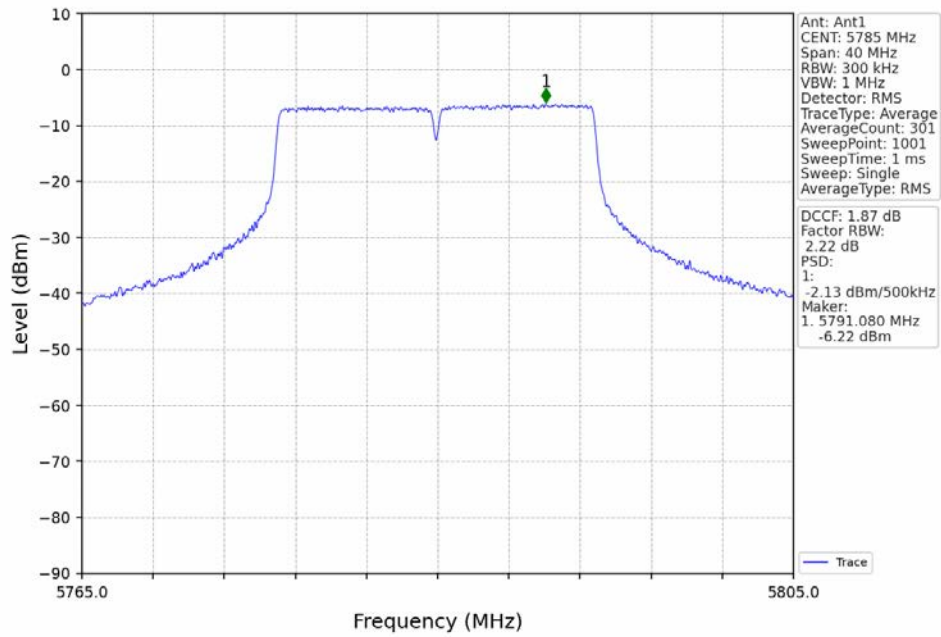
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



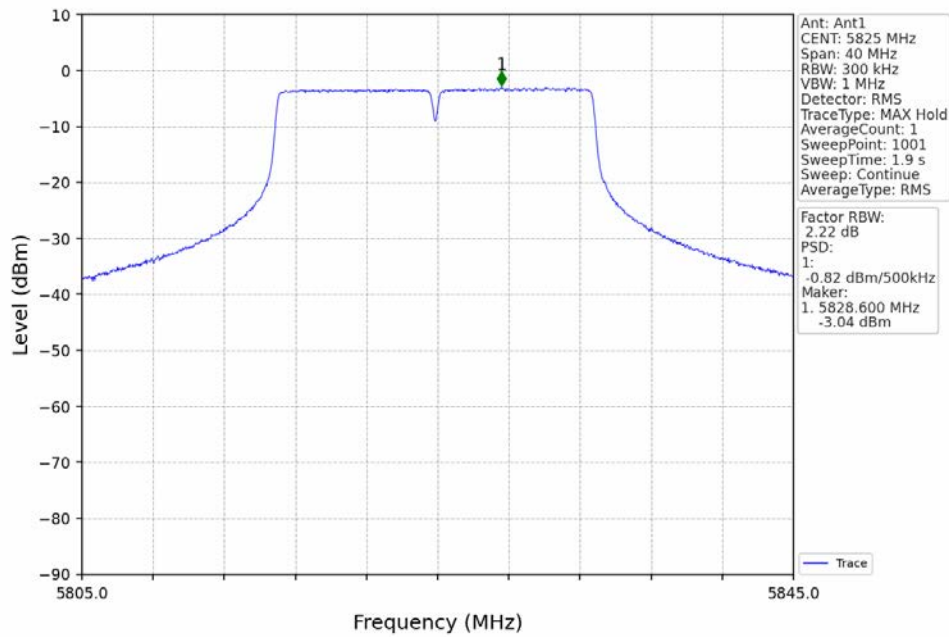
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



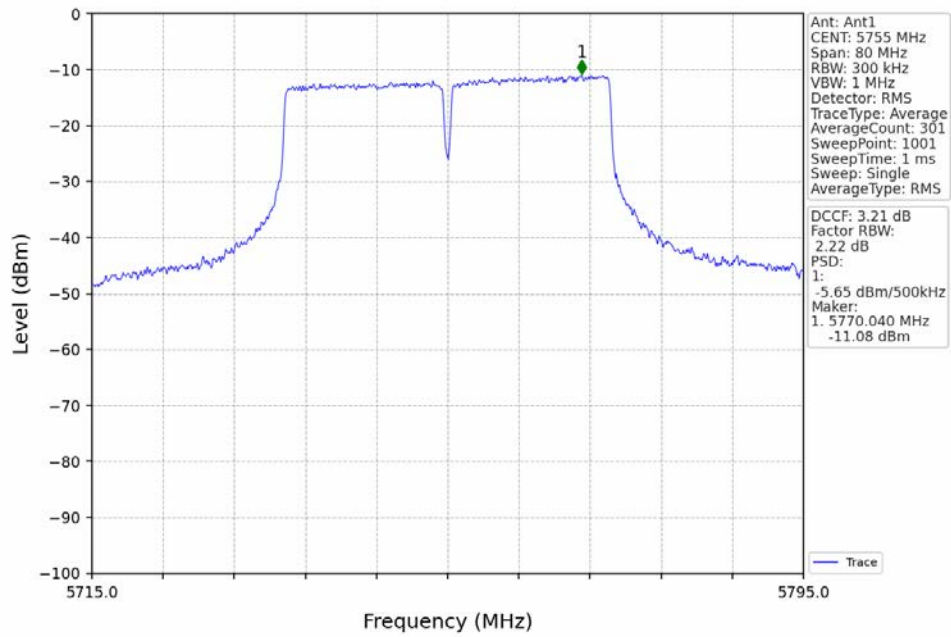
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



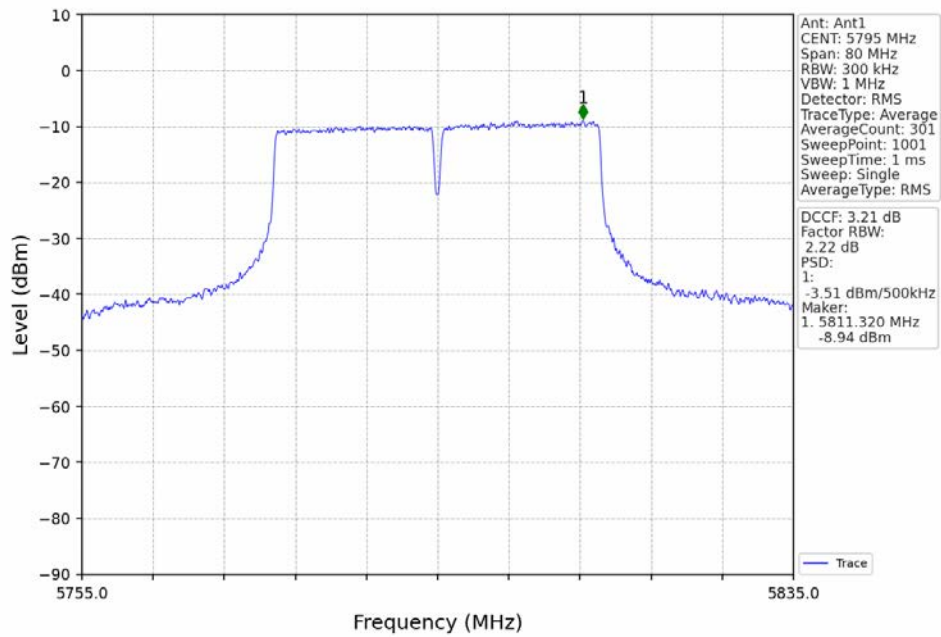
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



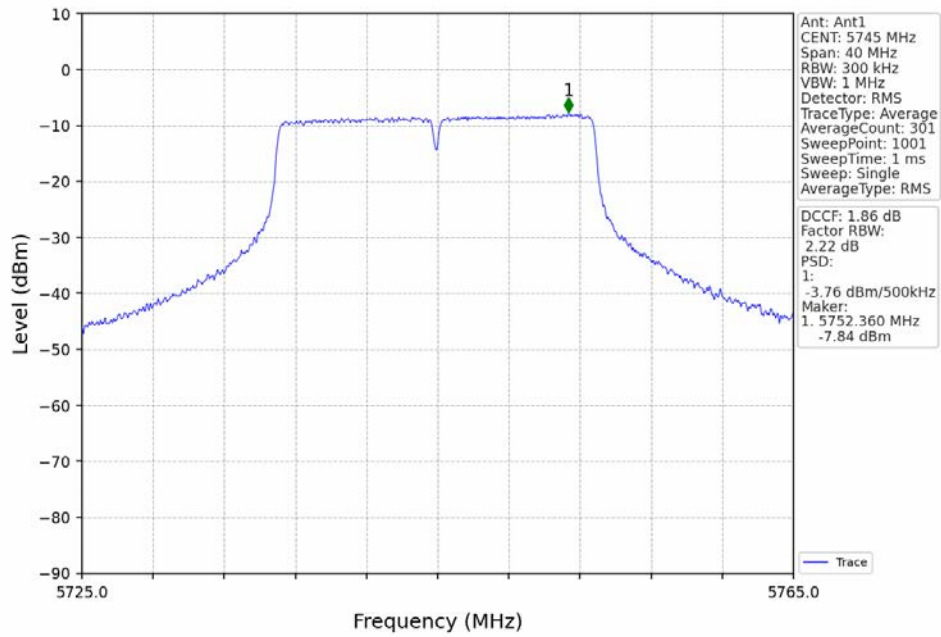
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



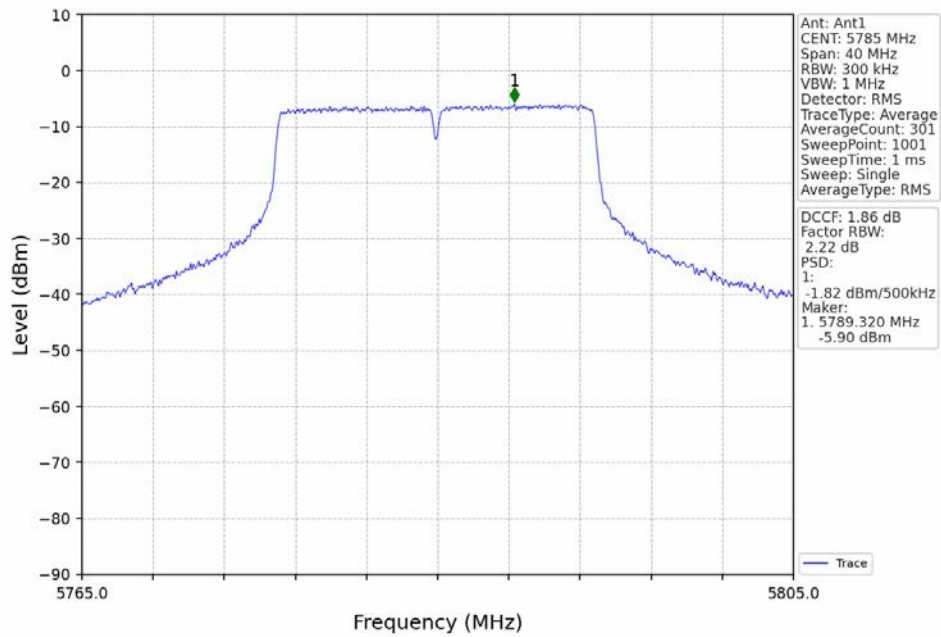
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



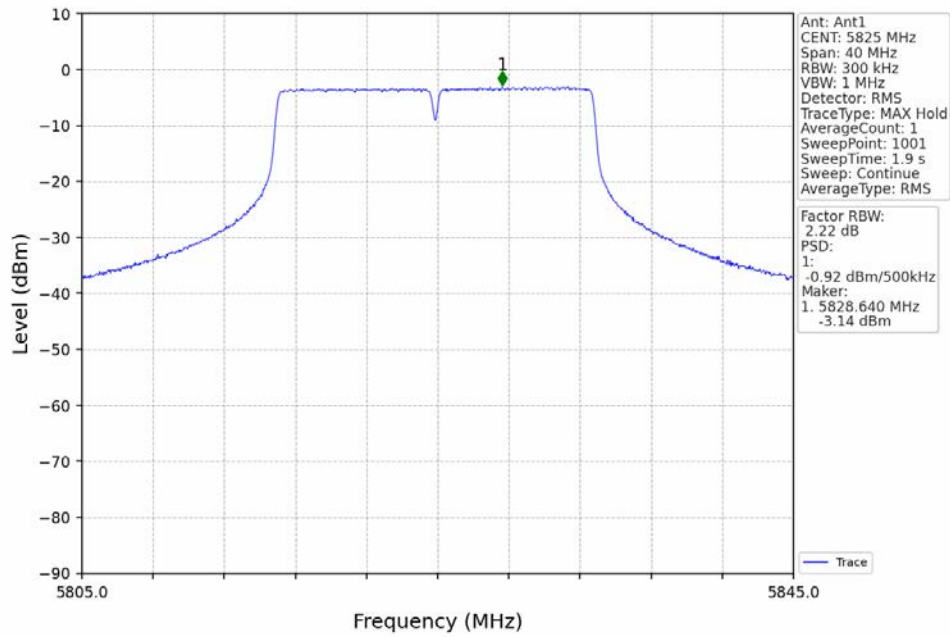
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



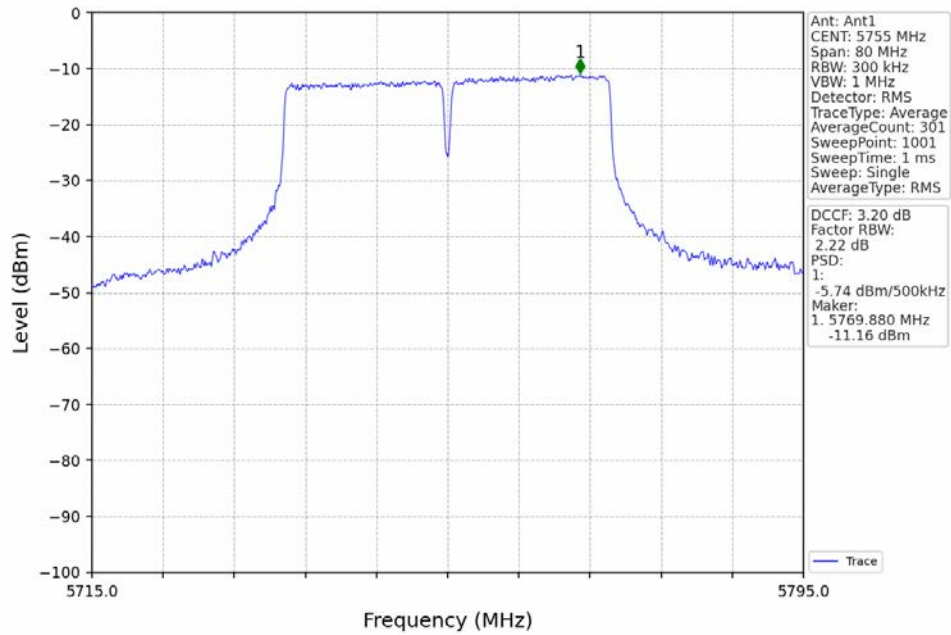
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



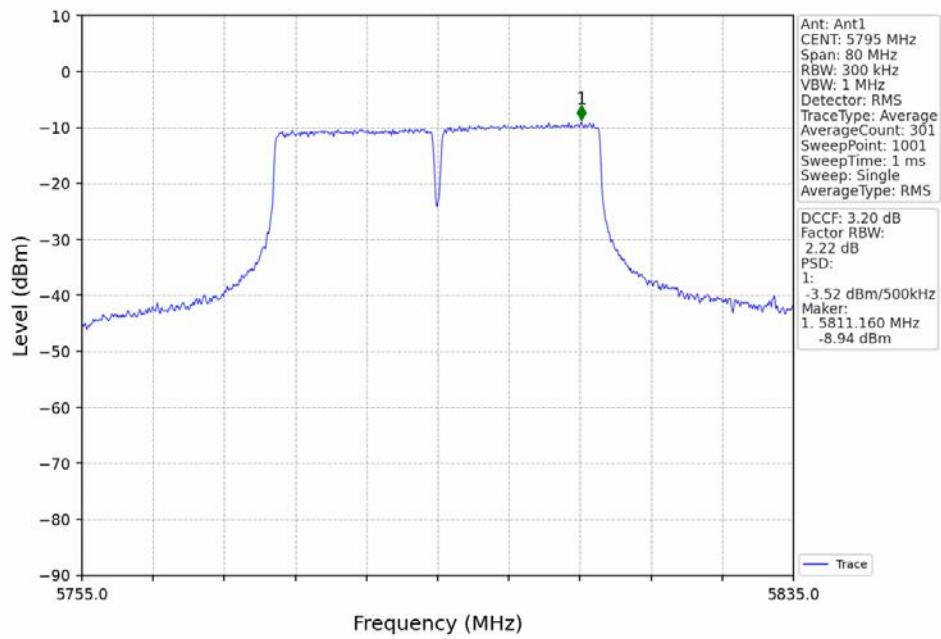
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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



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



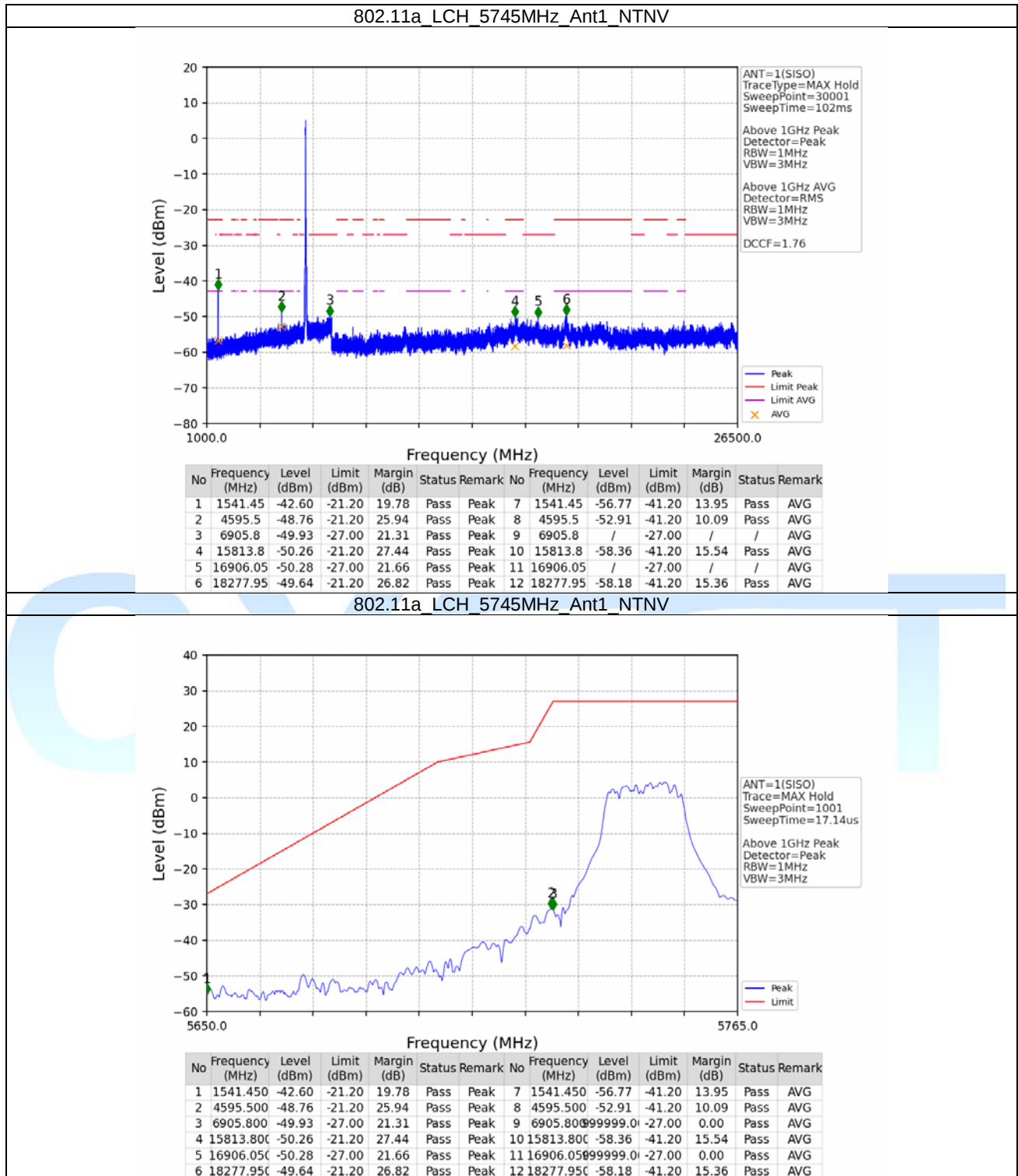
## 5. Unwanted Emissions In Restricted Frequency Bands

### 5.1 RSE

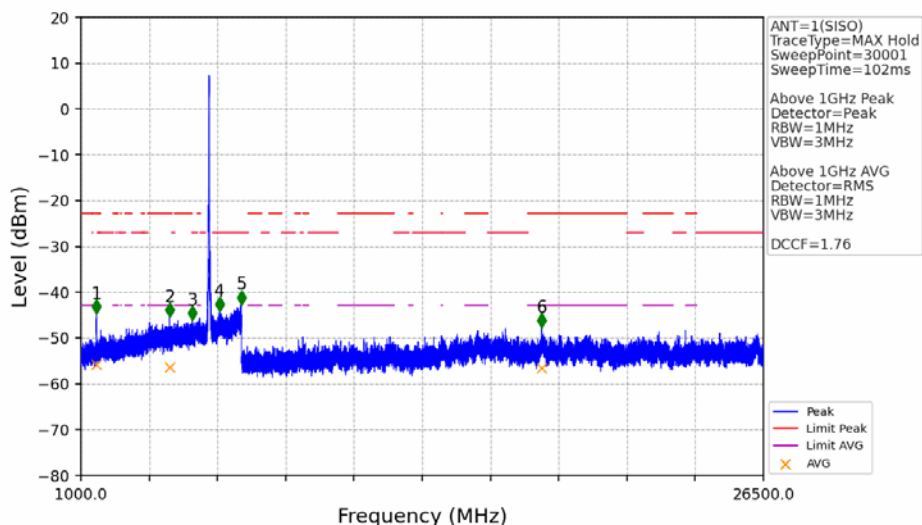
#### 5.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|------------------|---------|-----------------|-----|-----------------------------------|-------|---------|
|                  |         |                 |     | Result                            | Limit |         |
| 802.11a          | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |

## 5.1.2 Test Graph

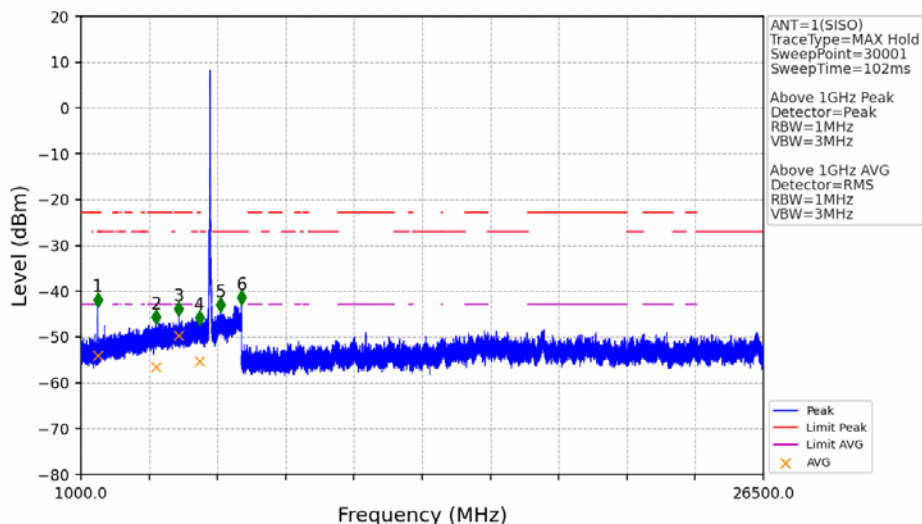


## 802.11a\_MCH\_5785MHz\_Ant1\_NTNV



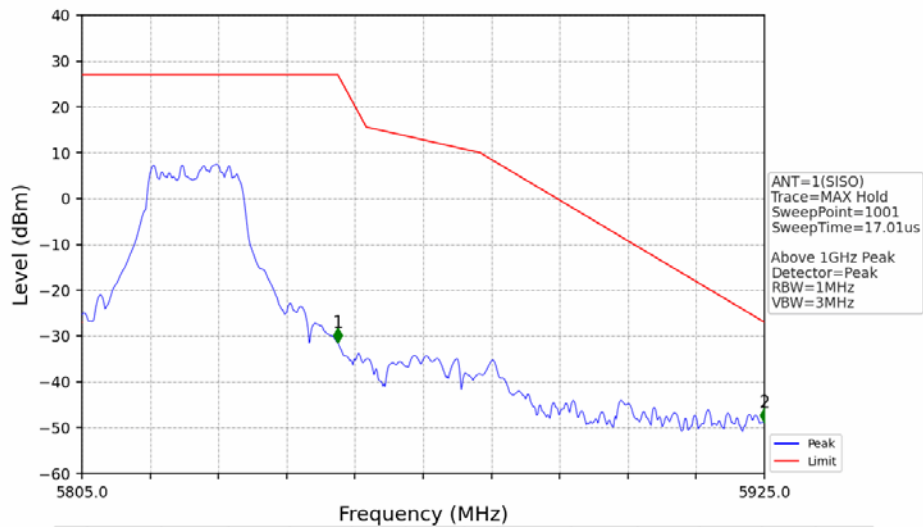
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1583.1          | -44.70      | -21.20      | 21.88       | Pass   | Peak   | 7  | 1583.1          | -55.79      | -41.20      | 12.97       | Pass   | AVG    |
| 2  | 4305.65         | -45.49      | -21.20      | 22.67       | Pass   | Peak   | 8  | 4305.65         | -56.42      | -41.20      | 13.60       | Pass   | AVG    |
| 3  | 5152.25         | -46.18      | -27.00      | 17.56       | Pass   | Peak   | 9  | 5152.25         | /           | -27.00      | /           | /      | AVG    |
| 4  | 6172.25         | -44.27      | -27.00      | 15.65       | Pass   | Peak   | 10 | 6172.25         | /           | -27.00      | /           | /      | AVG    |
| 5  | 6986.55         | -42.71      | -27.00      | 14.09       | Pass   | Peak   | 11 | 6986.55         | /           | -27.00      | /           | /      | AVG    |
| 6  | 18216.75        | -47.69      | -21.20      | 24.86       | Pass   | Peak   | 12 | 18216.75        | -56.49      | -41.20      | 13.67       | Pass   | AVG    |

## 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



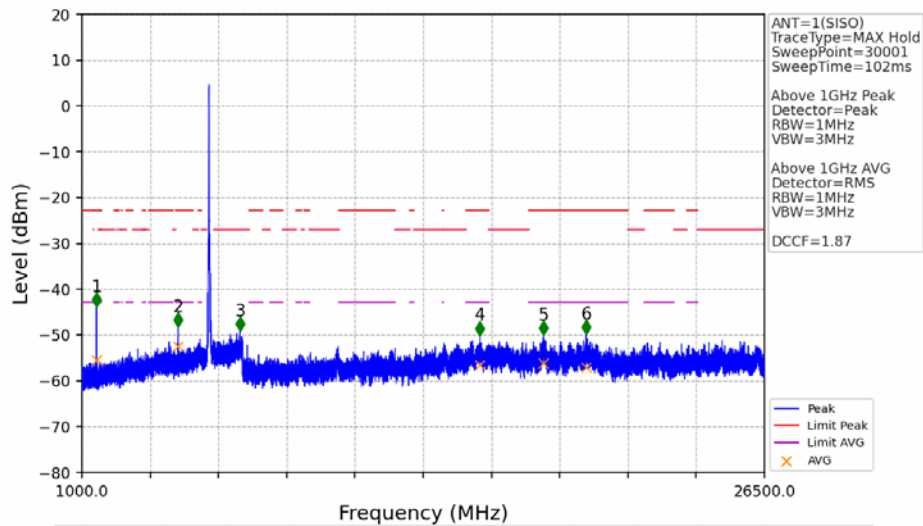
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1619.65         | -43.40      | -21.20      | 20.58       | Pass   | Peak   | 7  | 1619.65         | -54.15      | -41.20      | 11.33       | Pass   | AVG    |
| 2  | 3805.85         | -47.26      | -21.20      | 24.44       | Pass   | Peak   | 8  | 3805.85         | -56.52      | -41.20      | 13.70       | Pass   | AVG    |
| 3  | 4660.1          | -45.49      | -21.20      | 22.67       | Pass   | Peak   | 9  | 4660.1          | -49.72      | -41.20      | 6.90        | Pass   | AVG    |
| 4  | 5431.9          | -47.38      | -21.20      | 24.57       | Pass   | Peak   | 10 | 5431.9          | -55.34      | -41.20      | 12.52       | Pass   | AVG    |
| 5  | 6208.8          | -44.56      | -27.00      | 15.94       | Pass   | Peak   | 11 | 6208.8          | /           | -27.00      | /           | /      | AVG    |
| 6  | 6992.5          | -42.97      | -27.00      | 14.35       | Pass   | Peak   | 12 | 6992.5          | /           | -27.00      | /           | /      | AVG    |

## 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



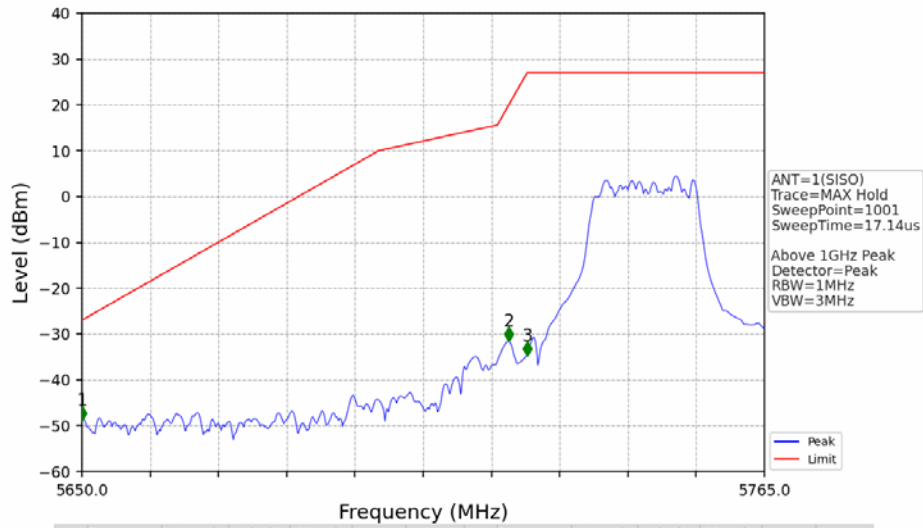
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1619.650        | -43.40      | -21.20      | 20.58       | Pass   | Peak   | 7  | 1619.650        | -54.15      | -41.20      | 11.33       | Pass   | AVG    |
| 2  | 3805.850        | -47.26      | -21.20      | 24.44       | Pass   | Peak   | 8  | 3805.850        | -56.52      | -41.20      | 13.70       | Pass   | AVG    |
| 3  | 4660.100        | -45.49      | -21.20      | 22.67       | Pass   | Peak   | 9  | 4660.100        | -49.72      | -41.20      | 6.90        | Pass   | AVG    |
| 4  | 5431.900        | -47.38      | -21.20      | 24.57       | Pass   | Peak   | 10 | 5431.900        | -55.34      | -41.20      | 12.52       | Pass   | AVG    |
| 5  | 6208.800        | -44.56      | -27.00      | 15.94       | Pass   | Peak   | 11 | 6208.800        | -59.99999.0 | -27.00      | 0.00        | Pass   | AVG    |
| 6  | 6992.500        | -42.97      | -27.00      | 14.35       | Pass   | Peak   | 12 | 6992.500        | -59.99999.0 | -27.00      | 0.00        | Pass   | AVG    |

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



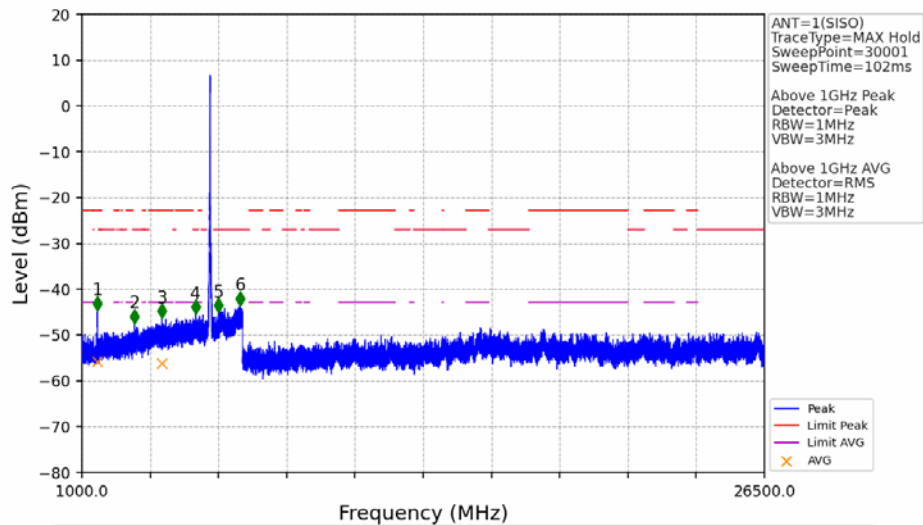
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1541.45         | -43.82      | -21.20      | 21.00       | Pass   | Peak   | 7  | 1541.45         | -55.50      | -41.20      | 12.68       | Pass   | AVG    |
| 2  | 4596.35         | -48.24      | -21.20      | 25.42       | Pass   | Peak   | 8  | 4596.35         | -52.50      | -41.20      | 9.68        | Pass   | AVG    |
| 3  | 6899.85         | -49.12      | -27.00      | 20.50       | Pass   | Peak   | 9  | 6899.85         | - / -27.00  | - / -27.00  | - / -       | Pass   | AVG    |
| 4  | 15872.45        | -50.12      | -21.20      | 27.30       | Pass   | Peak   | 10 | 15872.45        | -56.61      | -41.20      | 13.79       | Pass   | AVG    |
| 5  | 18254.15        | -50.02      | -21.20      | 27.20       | Pass   | Peak   | 11 | 18254.15        | -56.27      | -41.20      | 13.45       | Pass   | AVG    |
| 6  | 19836.85        | -49.83      | -21.20      | 27.01       | Pass   | Peak   | 12 | 19836.85        | -57.09      | -41.20      | 14.27       | Pass   | AVG    |

## 802.11n(HT20) LCH 5745MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1541.450        | -43.82      | -21.20      | 21.00       | Pass   | Peak   | 7  | 1541.450        | -55.50      | -41.20      | 12.68       | Pass   | AVG    |
| 2  | 4596.350        | -48.24      | -21.20      | 25.42       | Pass   | Peak   | 8  | 4596.350        | -52.50      | -41.20      | 9.68        | Pass   | AVG    |
| 3  | 6899.850        | -49.12      | -27.00      | 20.50       | Pass   | Peak   | 9  | 6899.850        | -50.00      | -27.00      | 0.00        | Pass   | AVG    |
| 4  | 15872.450       | -50.12      | -21.20      | 27.30       | Pass   | Peak   | 10 | 15872.450       | -56.61      | -41.20      | 13.79       | Pass   | AVG    |
| 5  | 18254.150       | -50.02      | -21.20      | 27.20       | Pass   | Peak   | 11 | 18254.150       | -56.27      | -41.20      | 13.45       | Pass   | AVG    |
| 6  | 19836.850       | -49.83      | -21.20      | 27.01       | Pass   | Peak   | 12 | 19836.850       | -57.09      | -41.20      | 14.27       | Pass   | AVG    |

## 802.11n(HT20) MCH 5785MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 1581.4          | -44.66      | -21.20      | 21.84       | Pass   | Peak   | 7  | 1581.4          | -55.78      | -41.20      | 12.96       | Pass   | AVG    |
| 2  | 2963.5          | -47.48      | -27.00      | 18.86       | Pass   | Peak   | 8  | 2963.5          | -           | -27.00      | -           | /      | AVG    |
| 3  | 3989.45         | -46.35      | -21.20      | 23.53       | Pass   | Peak   | 9  | 3989.45         | -56.26      | -41.20      | 13.44       | Pass   | AVG    |
| 4  | 5253.4          | -45.51      | -27.00      | 16.89       | Pass   | Peak   | 10 | 5253.4          | -           | -27.00      | -           | /      | AVG    |
| 5  | 6100.85         | -45.06      | -27.00      | 16.44       | Pass   | Peak   | 11 | 6100.85         | -           | -27.00      | -           | /      | AVG    |
| 6  | 6907.5          | -43.59      | -27.00      | 14.97       | Pass   | Peak   | 12 | 6907.5          | -           | -27.00      | -           | /      | AVG    |