

## Test Data

### Frequency Stability

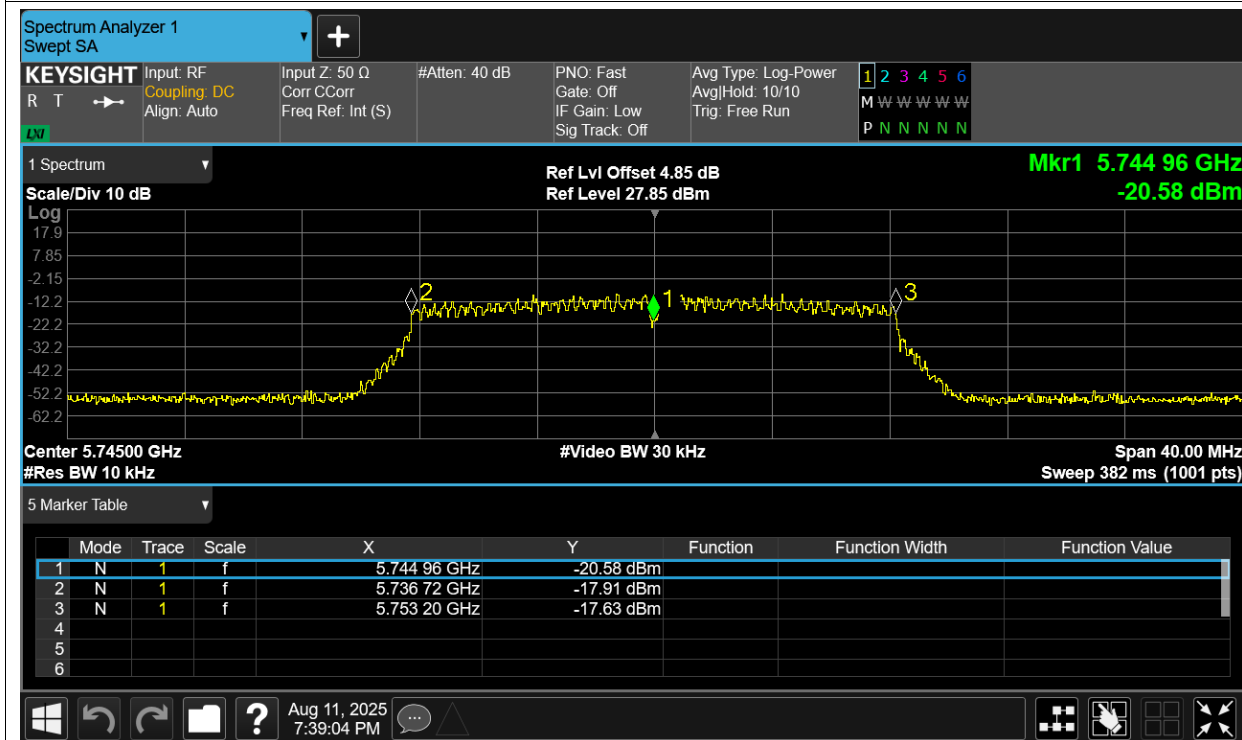
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Deviation (ppm) | Limit (ppm)            | Verdict |
|-----------|------|-----------------|---------|--------------------------|-----------------|------------------------|---------|
| HVNT      | a    | 5745            | Ant1    | 5744.96                  | -6.96           | Within authorized band | Pass    |
| LVNT      | a    | 5745            | Ant1    | 5744.98                  | -3.48           |                        | Pass    |
| NVHT      | a    | 5745            | Ant1    | 5744.98                  | -3.48           |                        | Pass    |
| NVLT      | a    | 5745            | Ant1    | 5744.98                  | -3.48           |                        | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5745                     | 0               |                        | Pass    |

**Remark:**

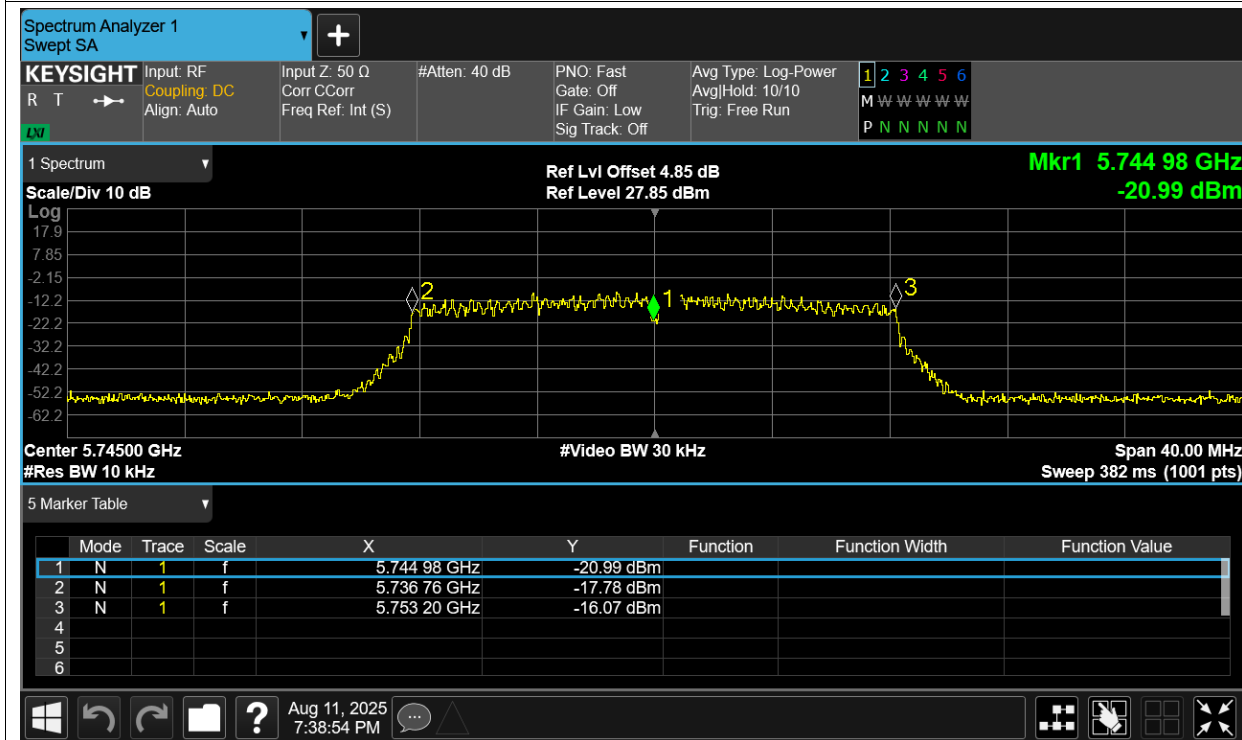
1. "NTNV" means Normal Temperature Normal Voltage, "NVHT" means Normal Voltage High Temperature, "NVLT" means Normal Voltage Low Temperature, "LVNT" means Low Voltage Normal Temperature, "HVNT" means High Voltage Normal Temperature.
2. Pre-scan 802.11a, n, ac, ax modulation mode, found 5.2GHz Wi-Fi ANT0 802.11a modulation was worse case mode. only reflects the test data of worst mode

## Test Graphs

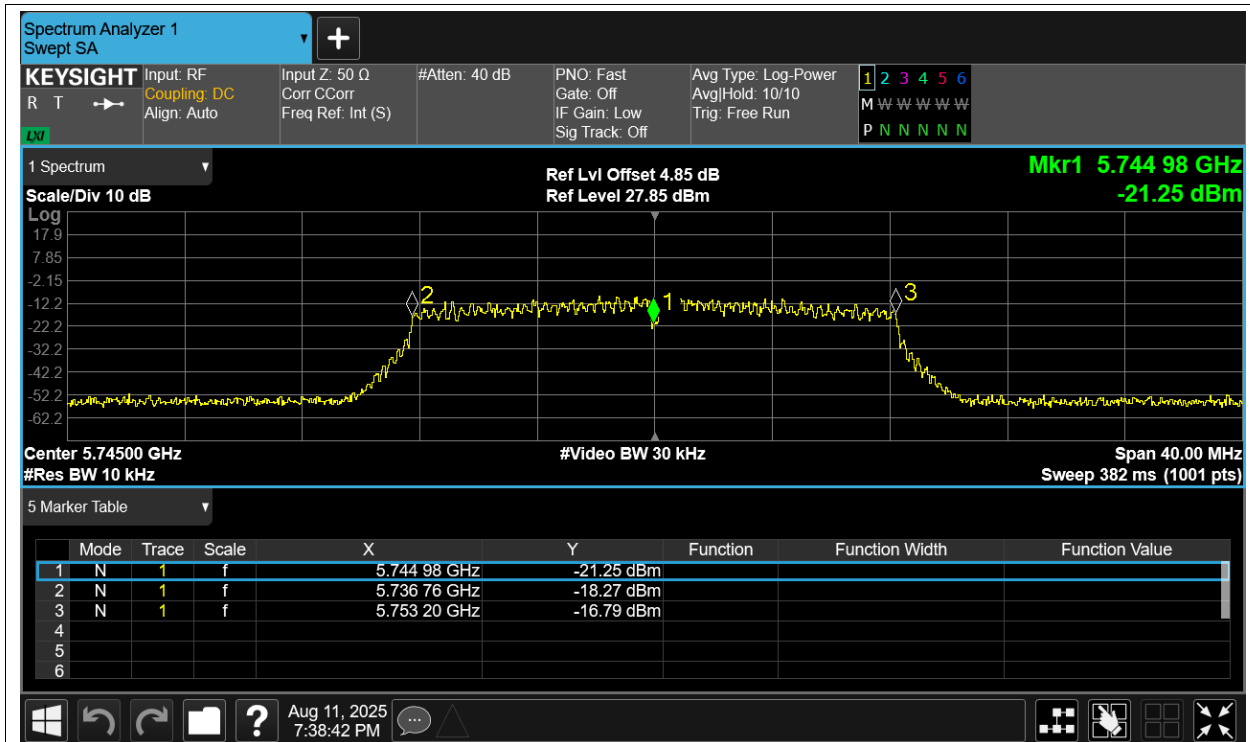
### Freq. Stability HVNT a 5745MHz Ant1



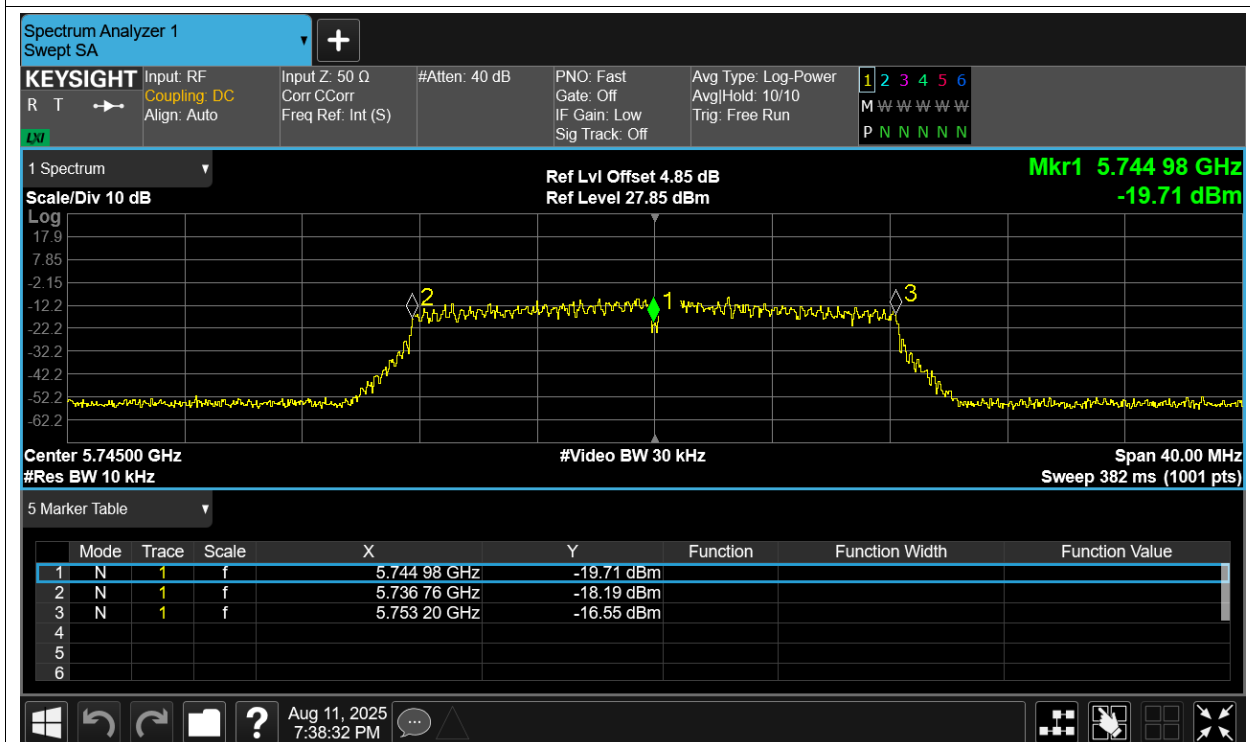
### Freq. Stability LVNT a 5745MHz Ant1



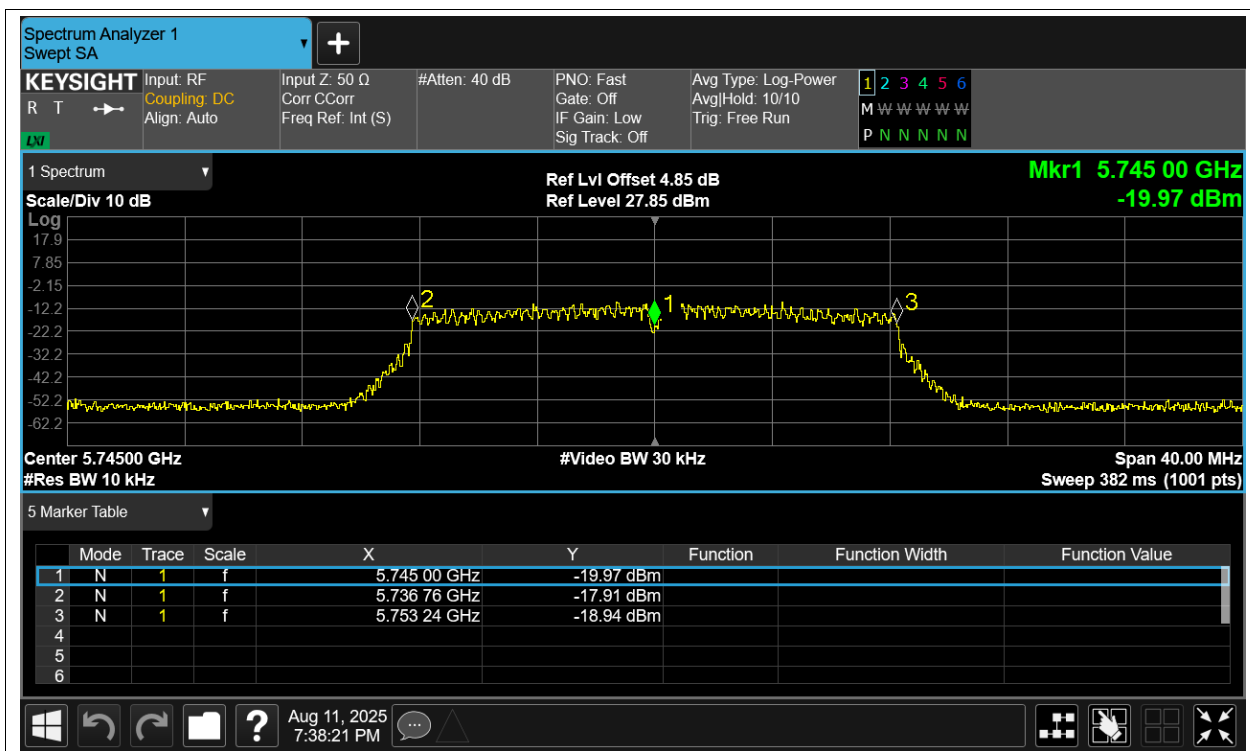
### Freq. Stability NVHT a 5745MHz Ant1



Freq. Stability NVLT a 5745MHz Ant1



Freq. Stability NVNT a 5745MHz Ant1

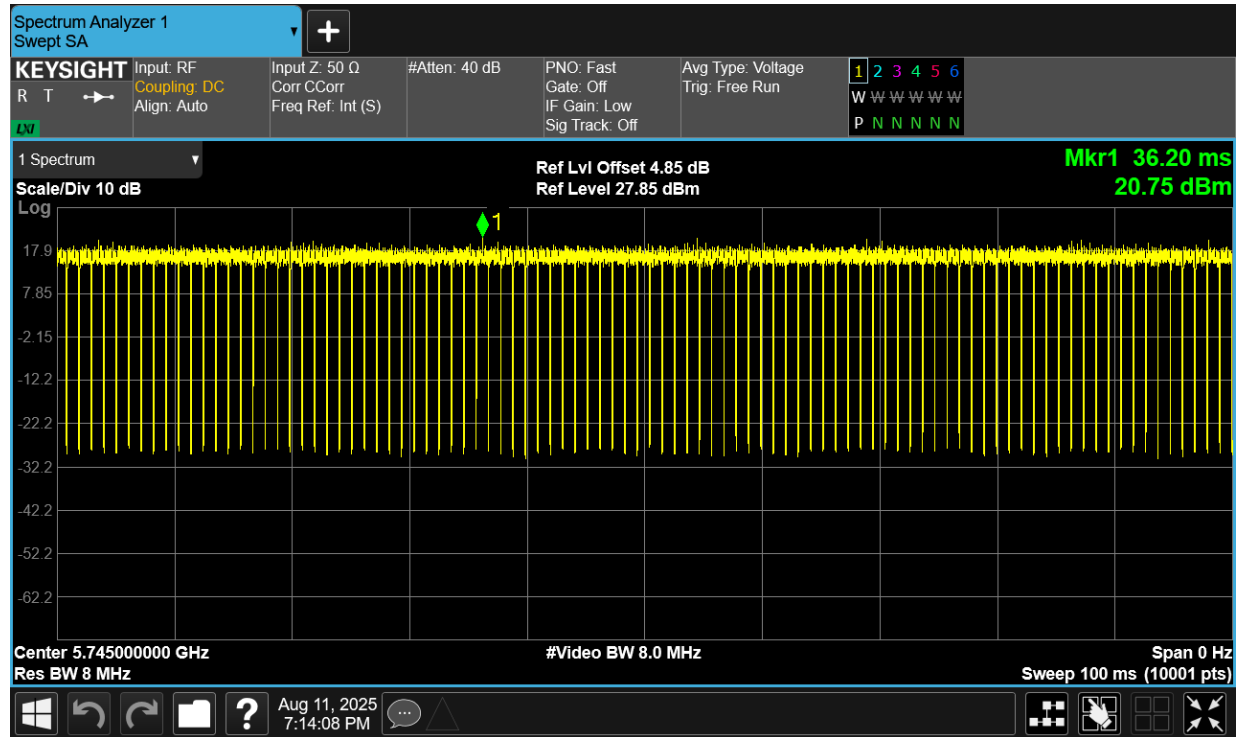


## Duty Cycle

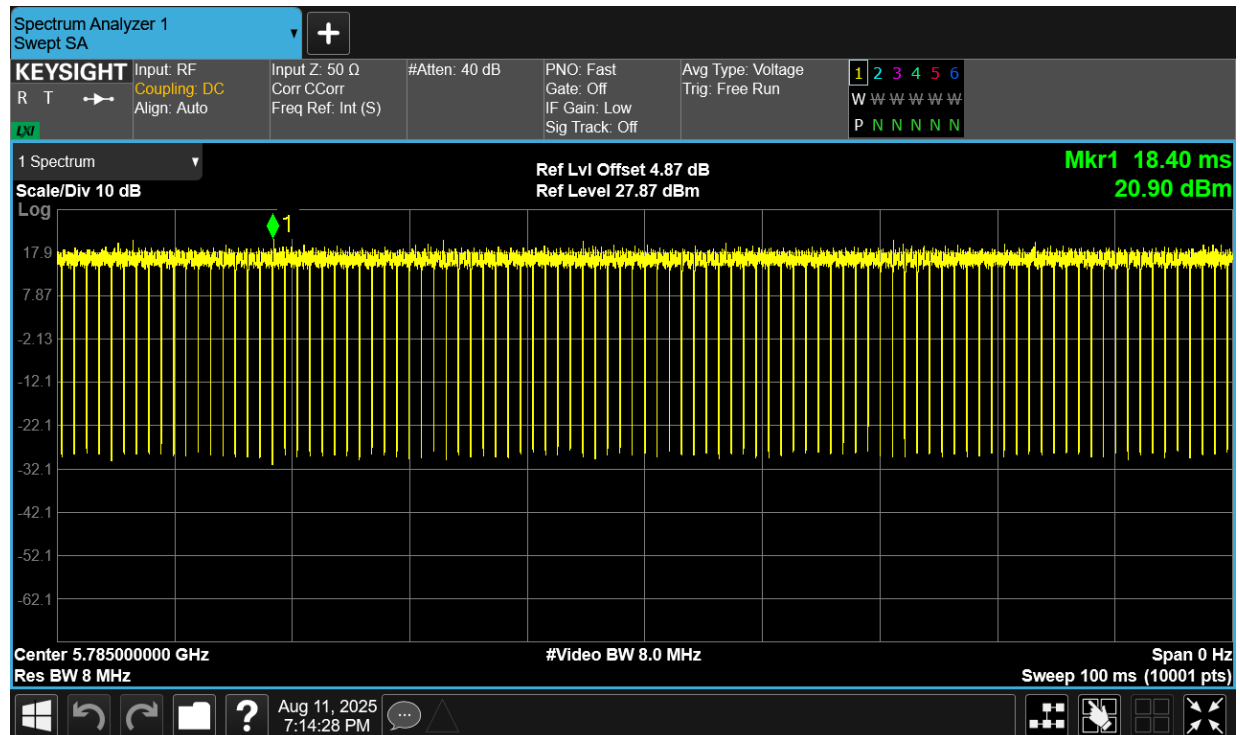
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | a    | 5745            | Ant1    | 93.53          | 0.29                   |
| NVNT      | a    | 5785            | Ant1    | 93.35          | 0.3                    |
| NVNT      | a    | 5825            | Ant1    | 93.42          | 0.3                    |
| NVNT      | ac20 | 5745            | Ant1    | 92.88          | 0.32                   |
| NVNT      | ac20 | 5785            | Ant1    | 93.35          | 0.3                    |
| NVNT      | ac20 | 5825            | Ant1    | 93.36          | 0.3                    |
| NVNT      | ax20 | 5745            | Ant1    | 88.6           | 0.53                   |
| NVNT      | ax20 | 5785            | Ant1    | 88.6           | 0.53                   |
| NVNT      | ax20 | 5825            | Ant1    | 88.6           | 0.53                   |
| NVNT      | n20  | 5745            | Ant1    | 92.41          | 0.34                   |
| NVNT      | n20  | 5785            | Ant1    | 92.95          | 0.32                   |
| NVNT      | n20  | 5825            | Ant1    | 92.88          | 0.32                   |

## Test Graphs

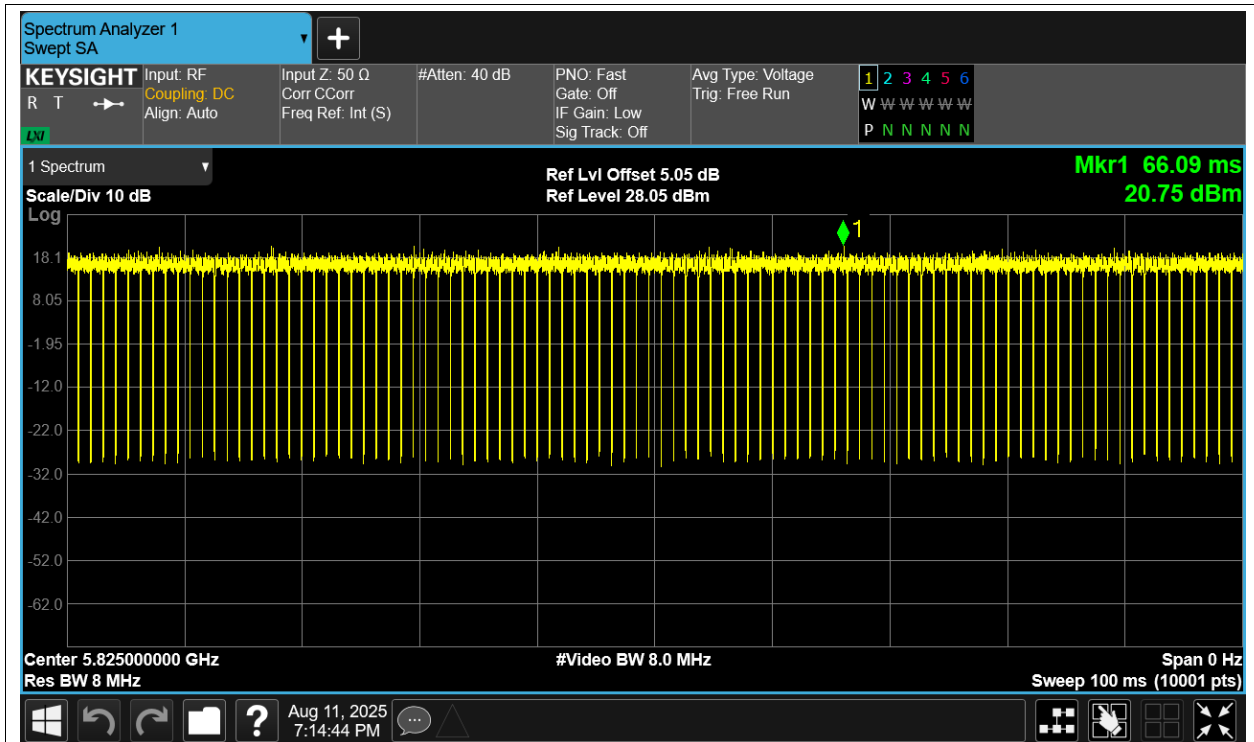
Duty Cycle NVNT a 5745MHz Ant1



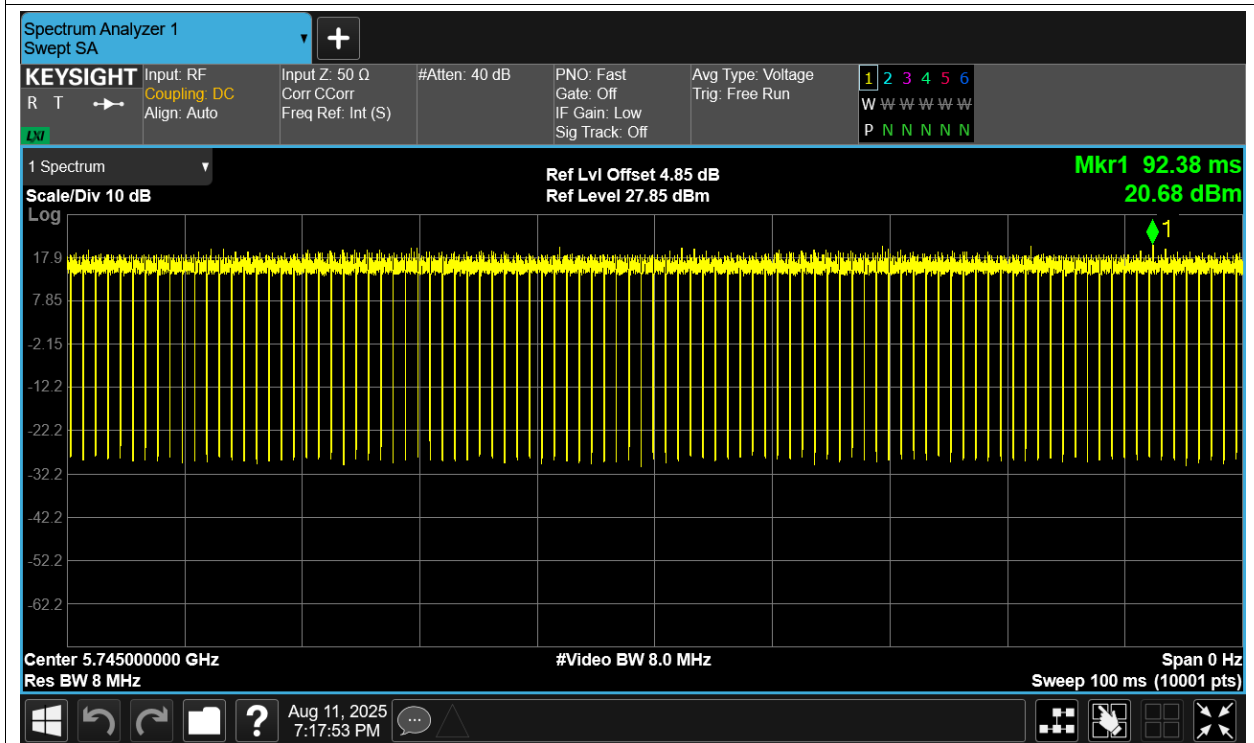
Duty Cycle NVNT a 5785MHz Ant1



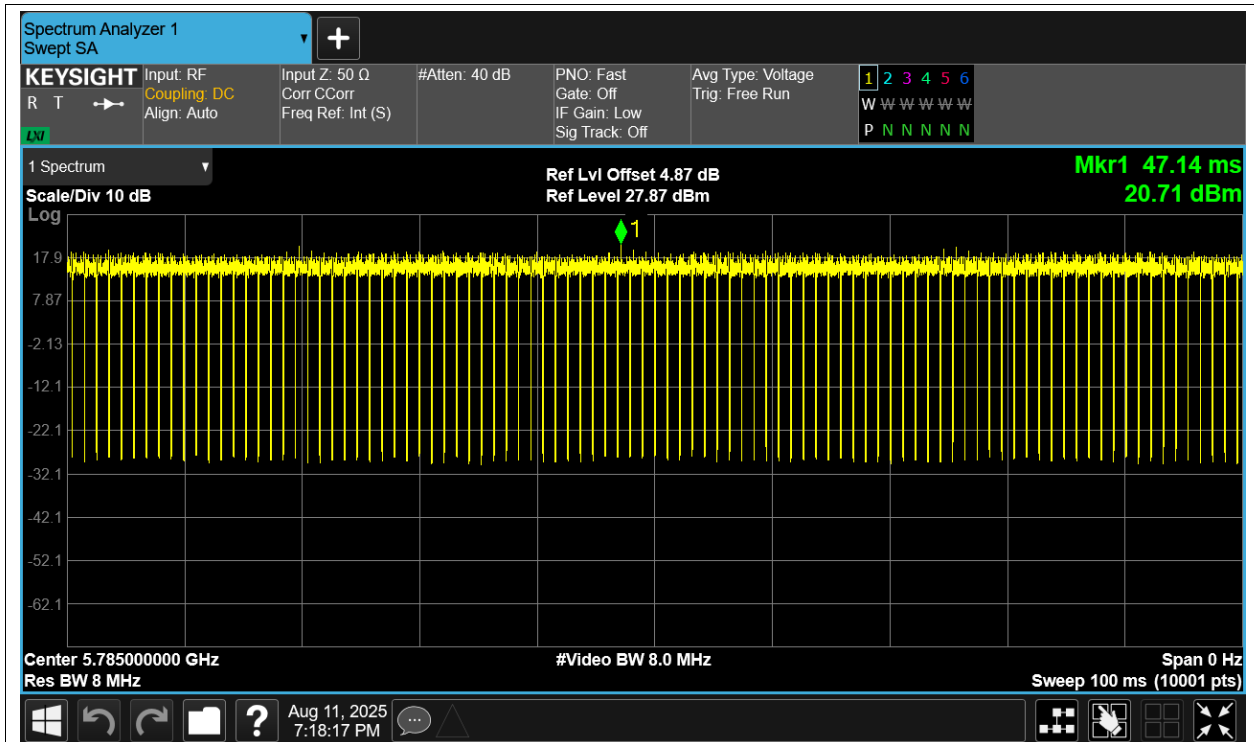
Duty Cycle NVNT a 5825MHz Ant1



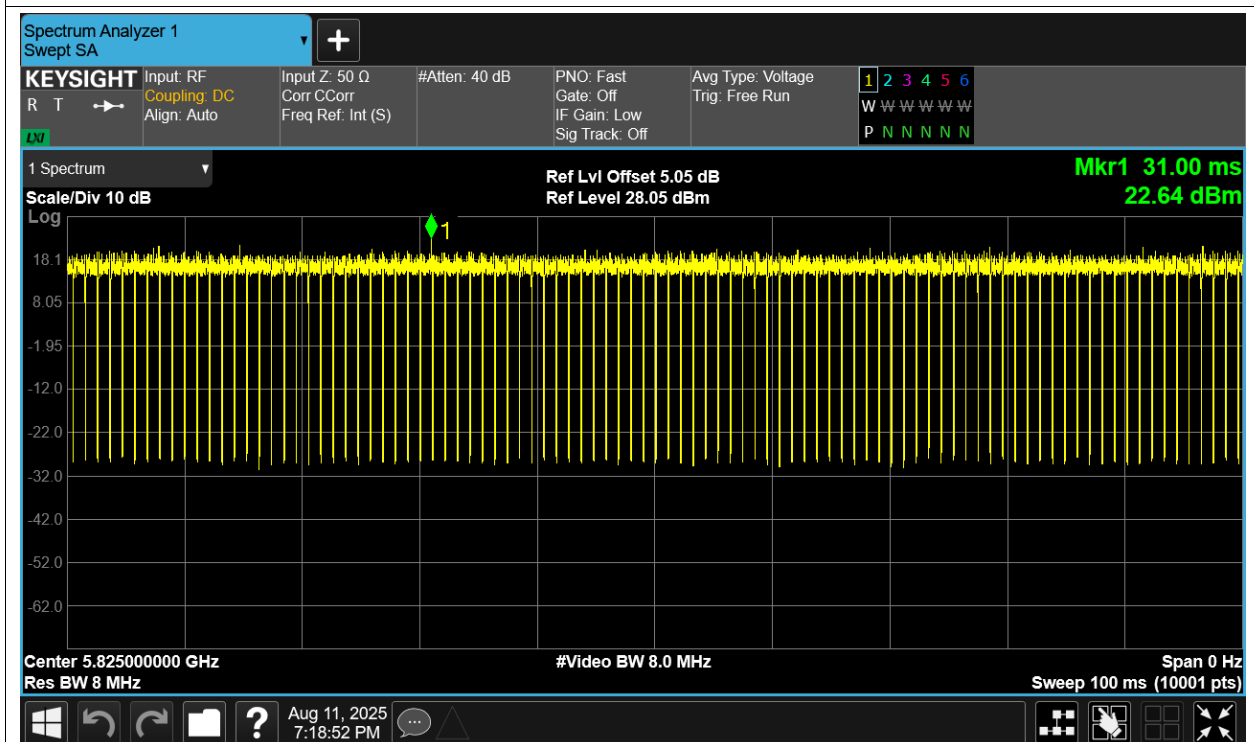
Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1

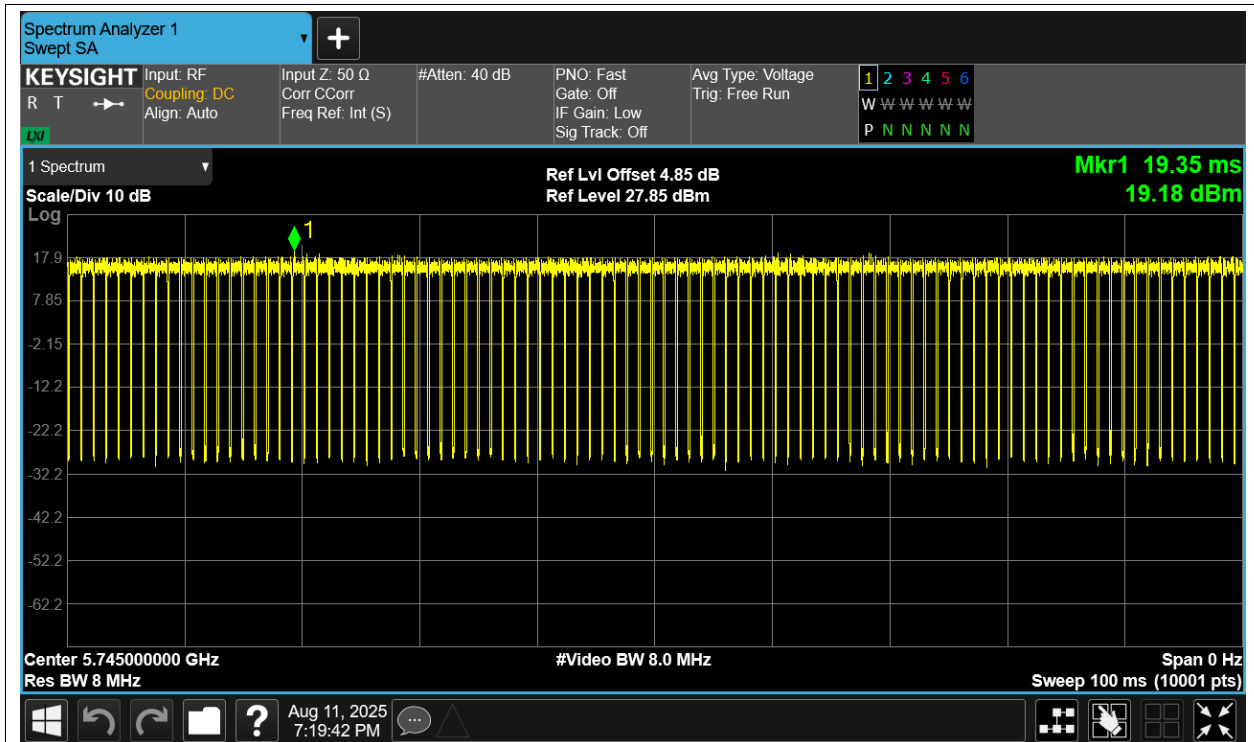


Duty Cycle NVNT ac20 5825MHz Ant1

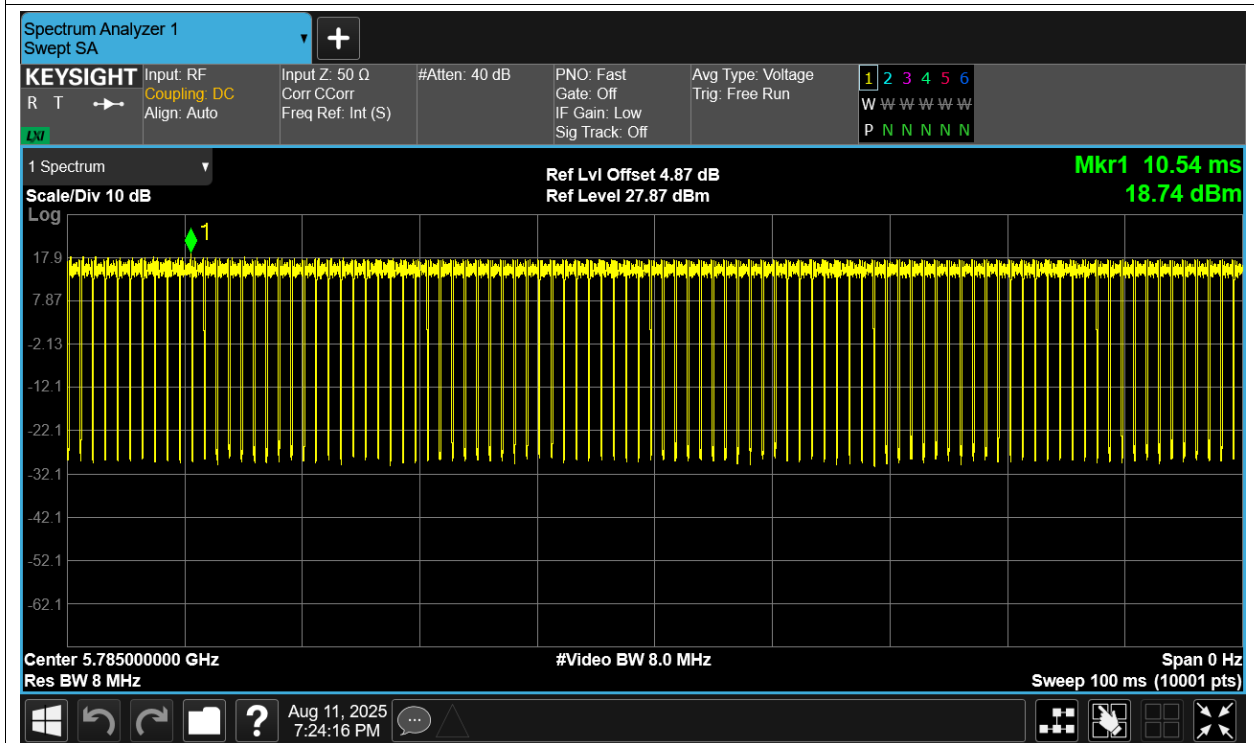


Duty Cycle NVNT ax20 5745MHz Ant1

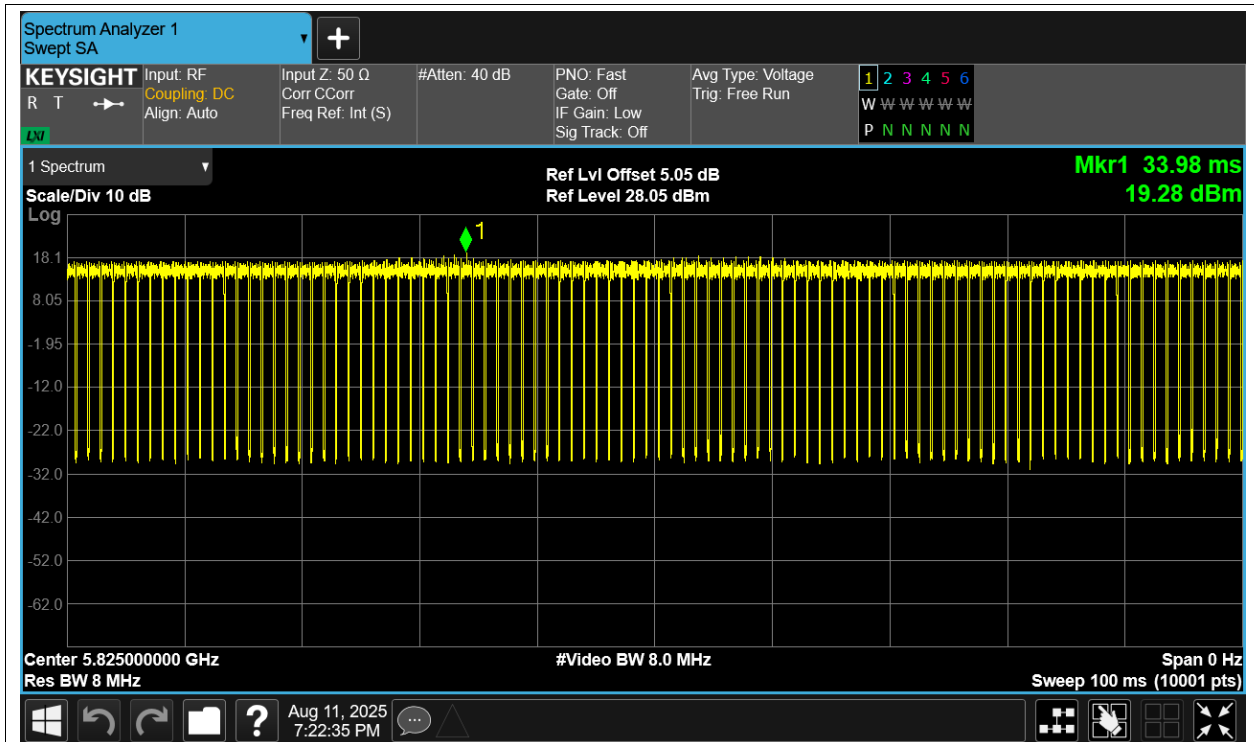




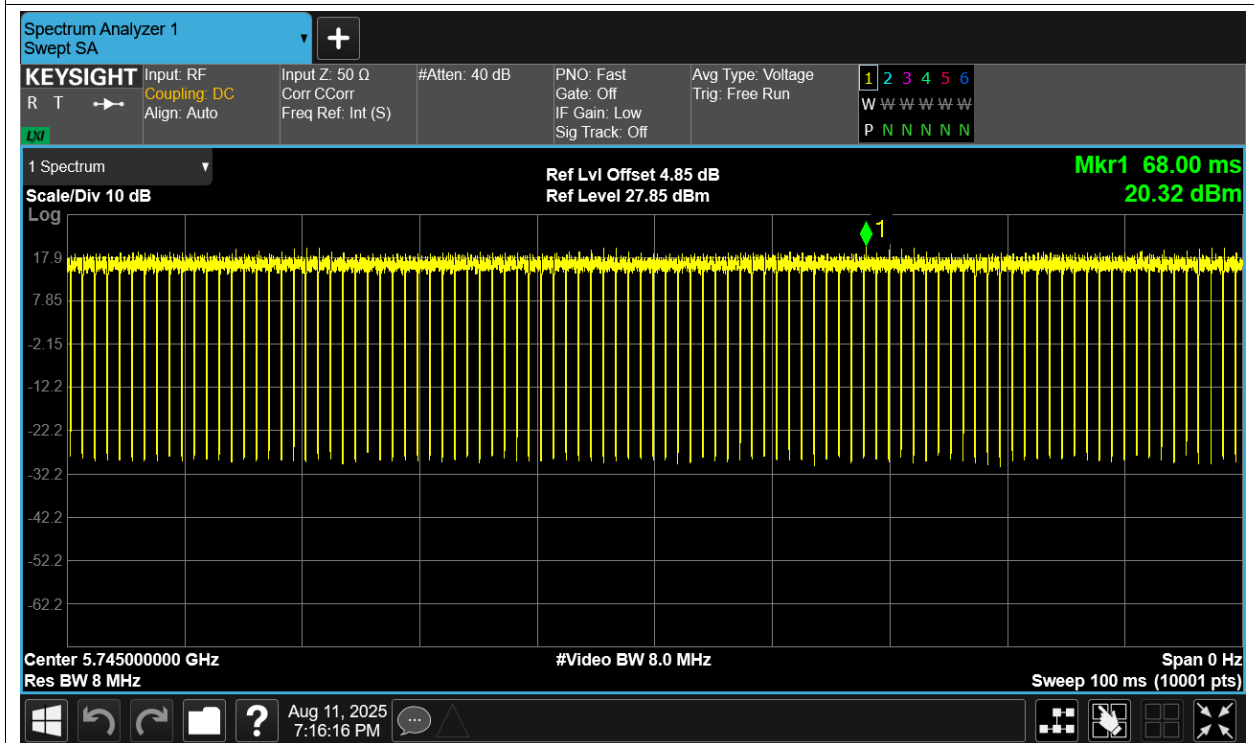
Duty Cycle NVNT ax20 5785MHz Ant1



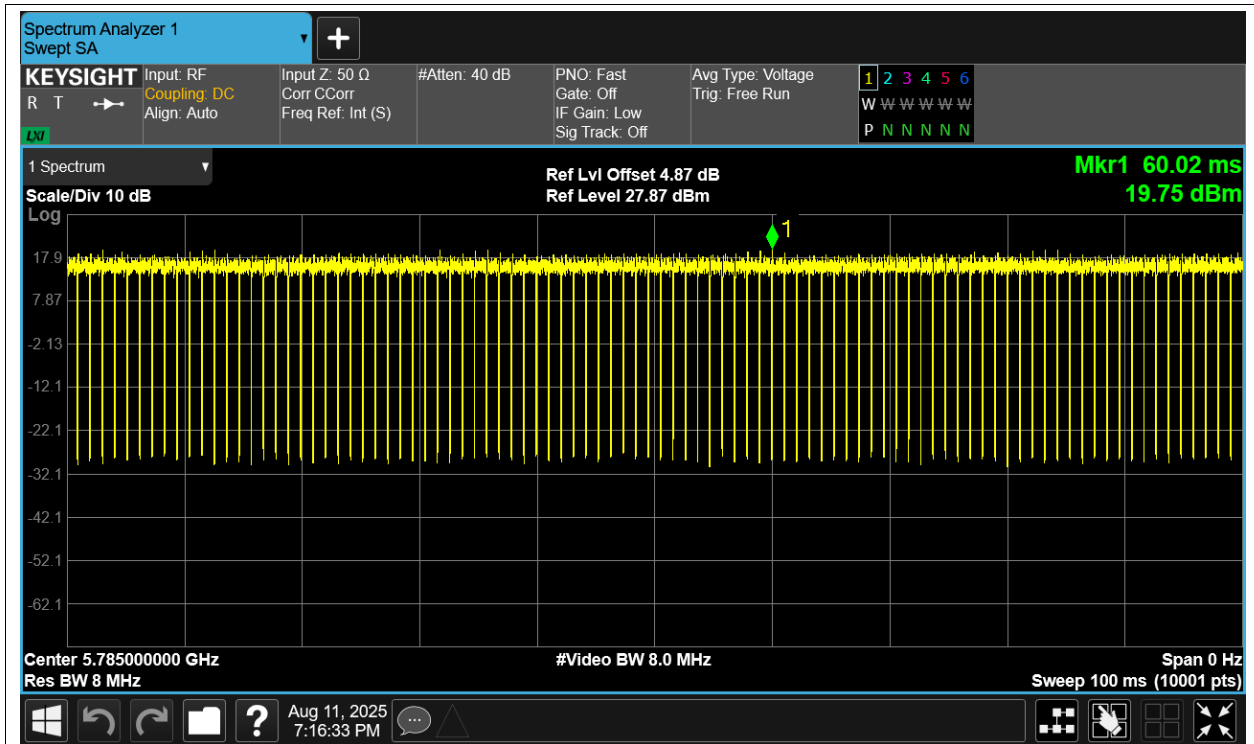
Duty Cycle NVNT ax20 5825MHz Ant1



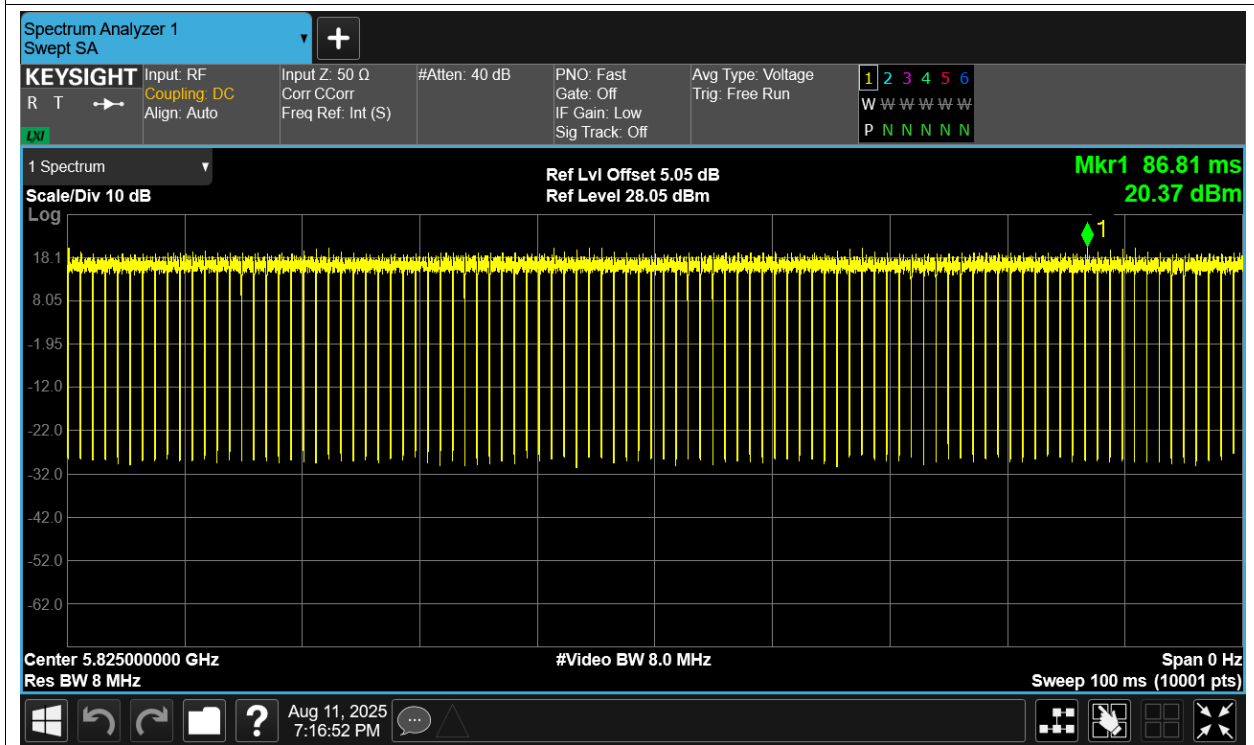
Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



## Maximum Conducted Output Power

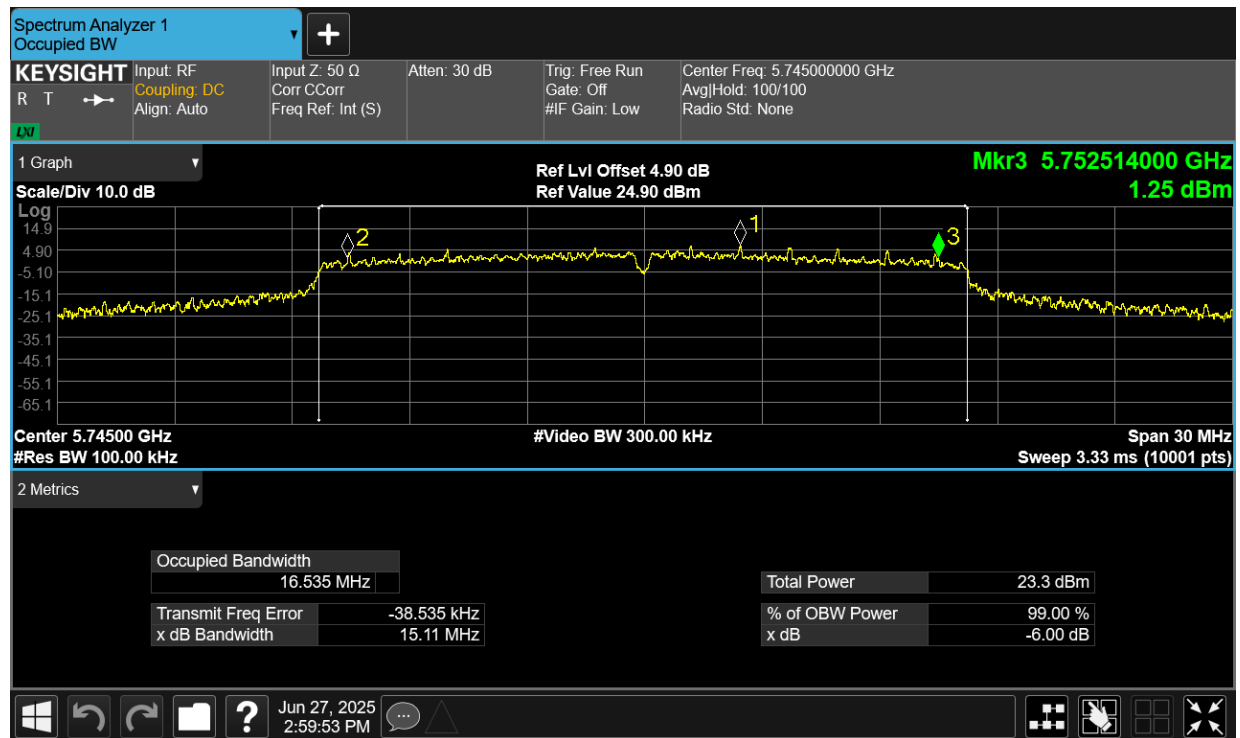
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 11.88                 | 0.29             | 12.17             | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 12.08                 | 0.3              | 12.38             | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 11.7                  | 0.3              | 12                | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 11.57                 | 0.32             | 11.89             | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 11.53                 | 0.3              | 11.83             | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 11.85                 | 0.3              | 12.15             | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 11.16                 | 0.53             | 11.69             | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 11.19                 | 0.53             | 11.72             | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 10.81                 | 0.53             | 11.34             | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 11.94                 | 0.34             | 12.28             | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 11.8                  | 0.32             | 12.12             | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 11.78                 | 0.32             | 12.1              | 30          | Pass    |

## -6dB Bandwidth

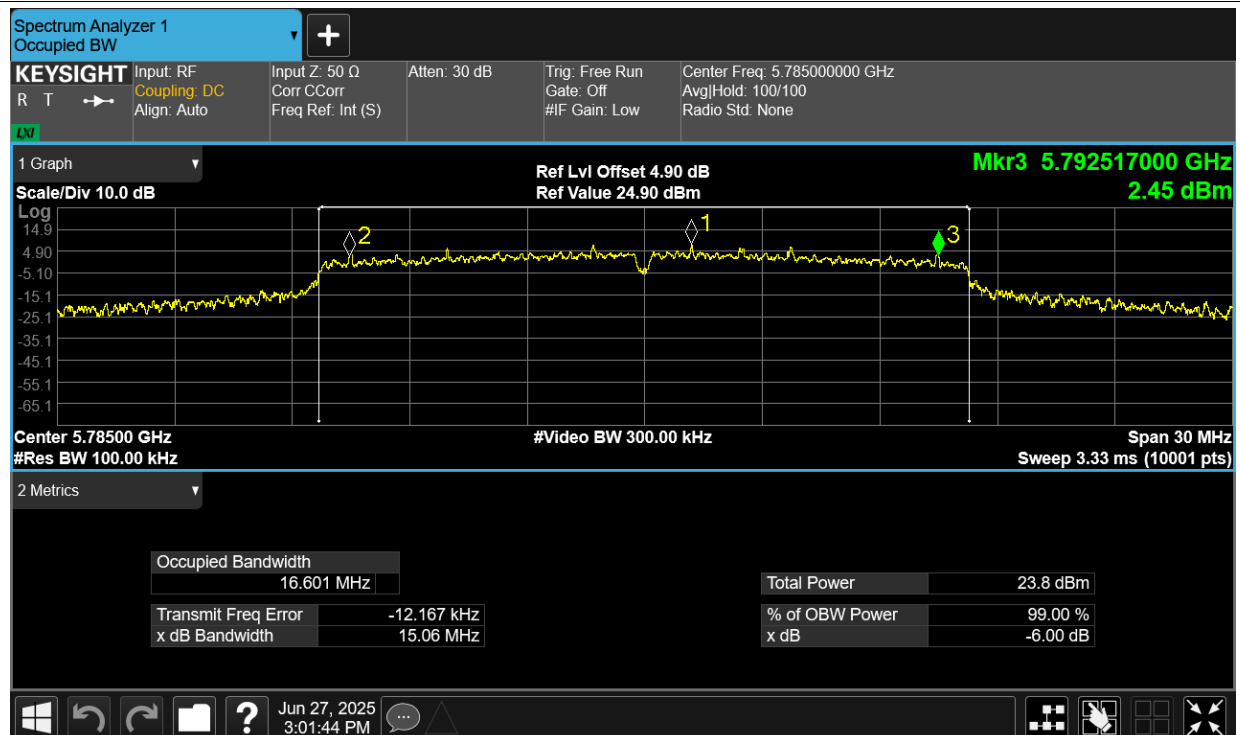
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | limit | Verdic |
|-----------|------|-----------------|---------|-----------------------|-------|--------|
| NVNT      | a    | 5745            | Ant1    | 15.106                | 0.5   | Pass   |
| NVNT      | a    | 5785            | Ant1    | 15.058                | 0.5   | Pass   |
| NVNT      | a    | 5825            | Ant1    | 13.158                | 0.5   | Pass   |
| NVNT      | ac20 | 5745            | Ant1    | 12.633                | 0.5   | Pass   |
| NVNT      | ac20 | 5785            | Ant1    | 15.005                | 0.5   | Pass   |
| NVNT      | ac20 | 5825            | Ant1    | 13.897                | 0.5   | Pass   |
| NVNT      | ax20 | 5745            | Ant1    | 15.008                | 0.5   | Pass   |
| NVNT      | ax20 | 5785            | Ant1    | 13.872                | 0.5   | Pass   |
| NVNT      | ax20 | 5825            | Ant1    | 15.006                | 0.5   | Pass   |
| NVNT      | n20  | 5745            | Ant1    | 15.066                | 0.5   | Pass   |
| NVNT      | n20  | 5785            | Ant1    | 15.088                | 0.5   | Pass   |
| NVNT      | n20  | 5825            | Ant1    | 15.035                | 0.5   | Pass   |

## Test Graphs

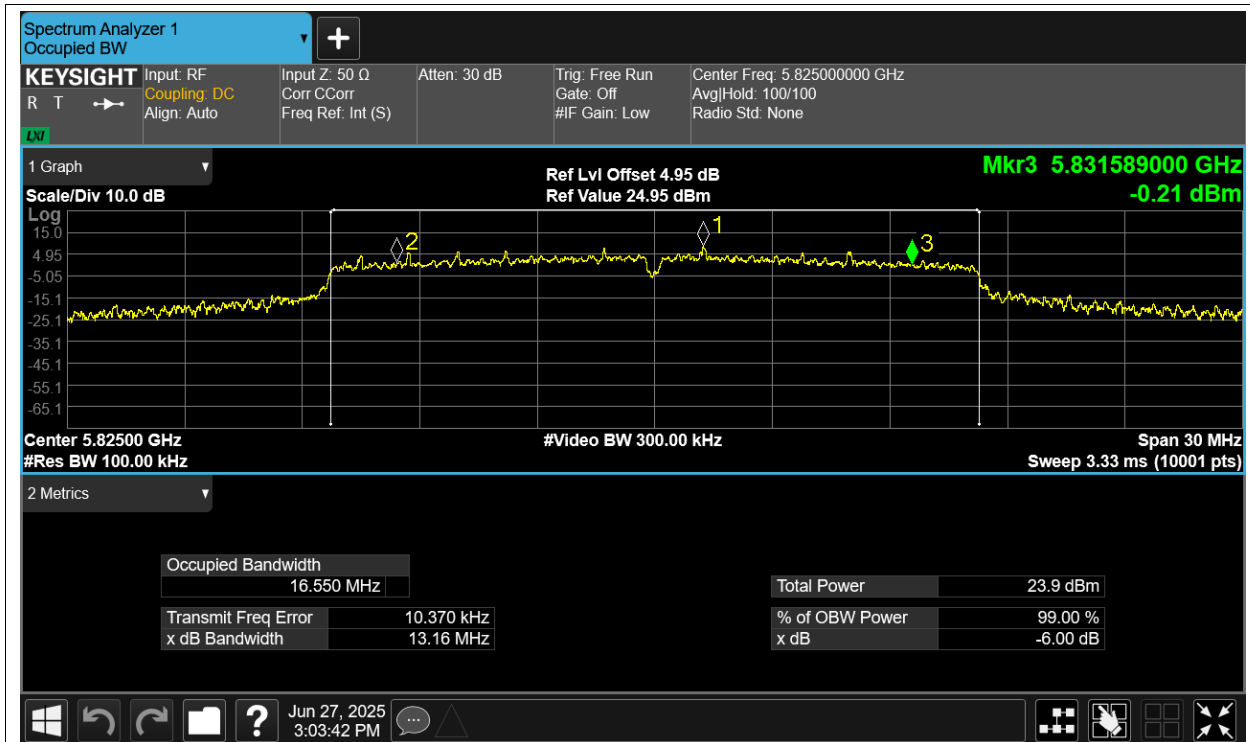
### -6dB Bandwidth NVNT a 5745MHz Ant1



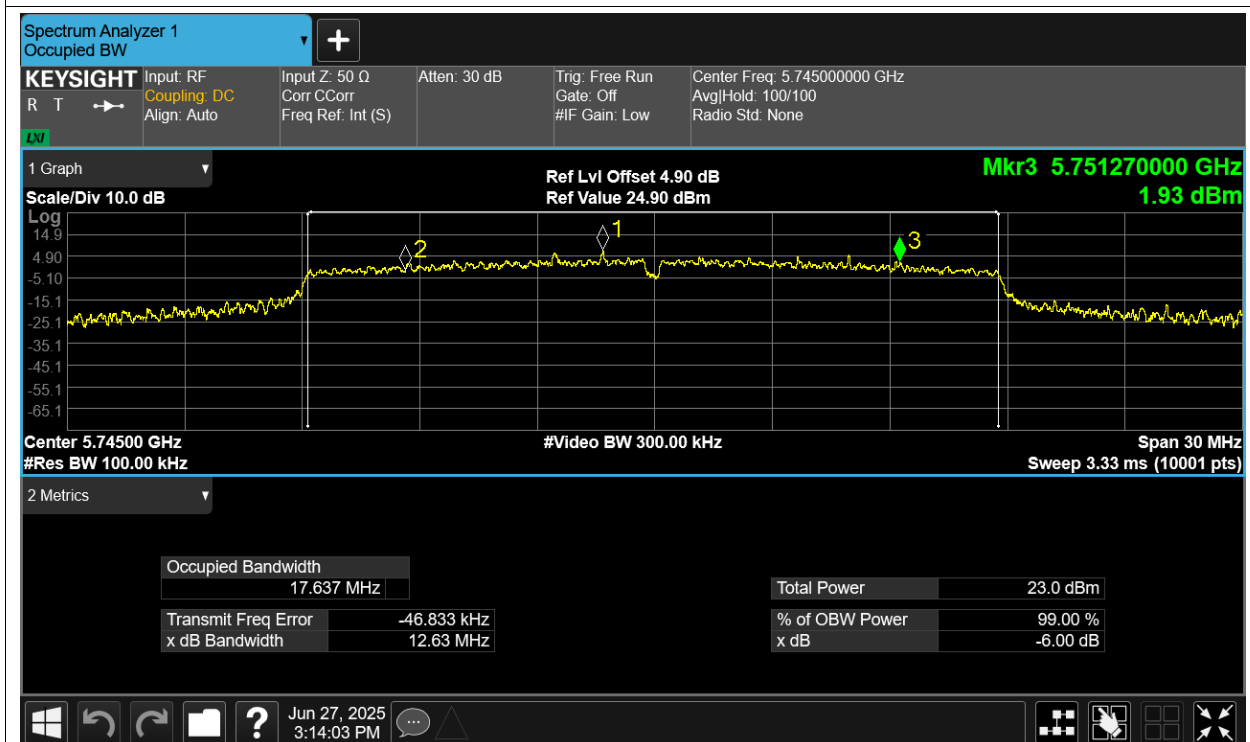
### -6dB Bandwidth NVNT a 5785MHz Ant1



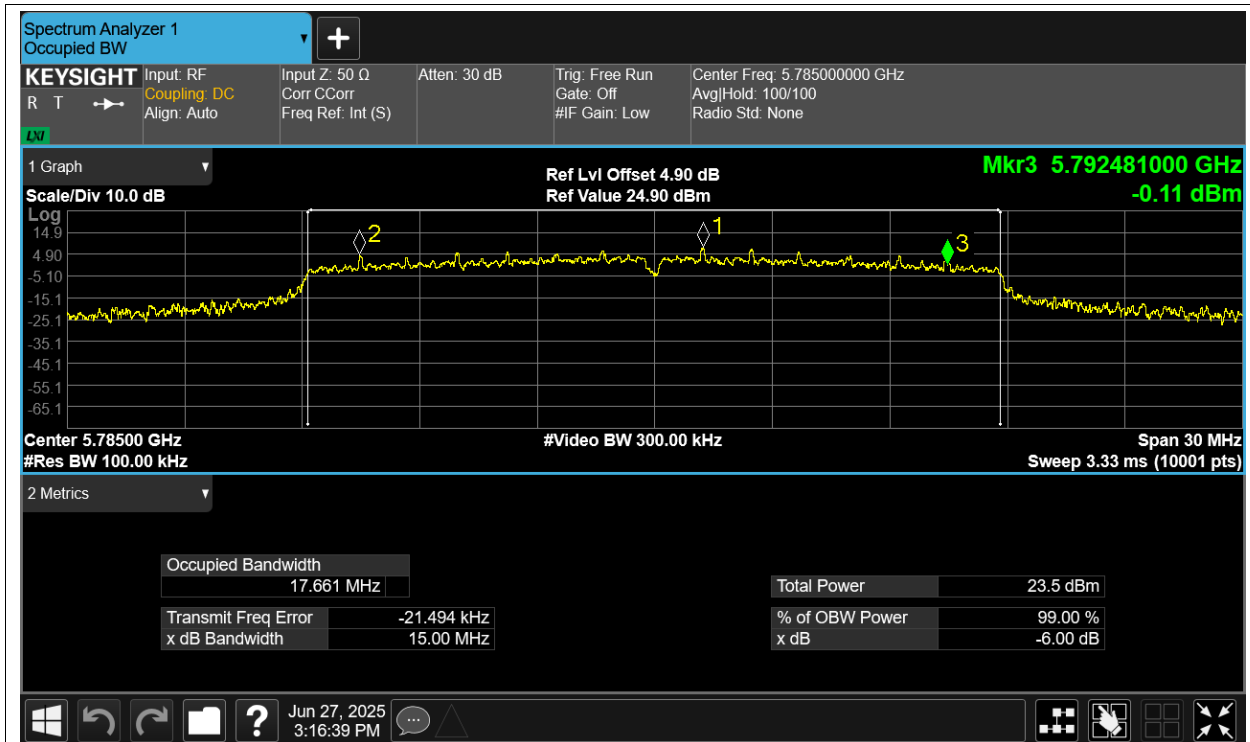
### -6dB Bandwidth NVNT a 5825MHz Ant1



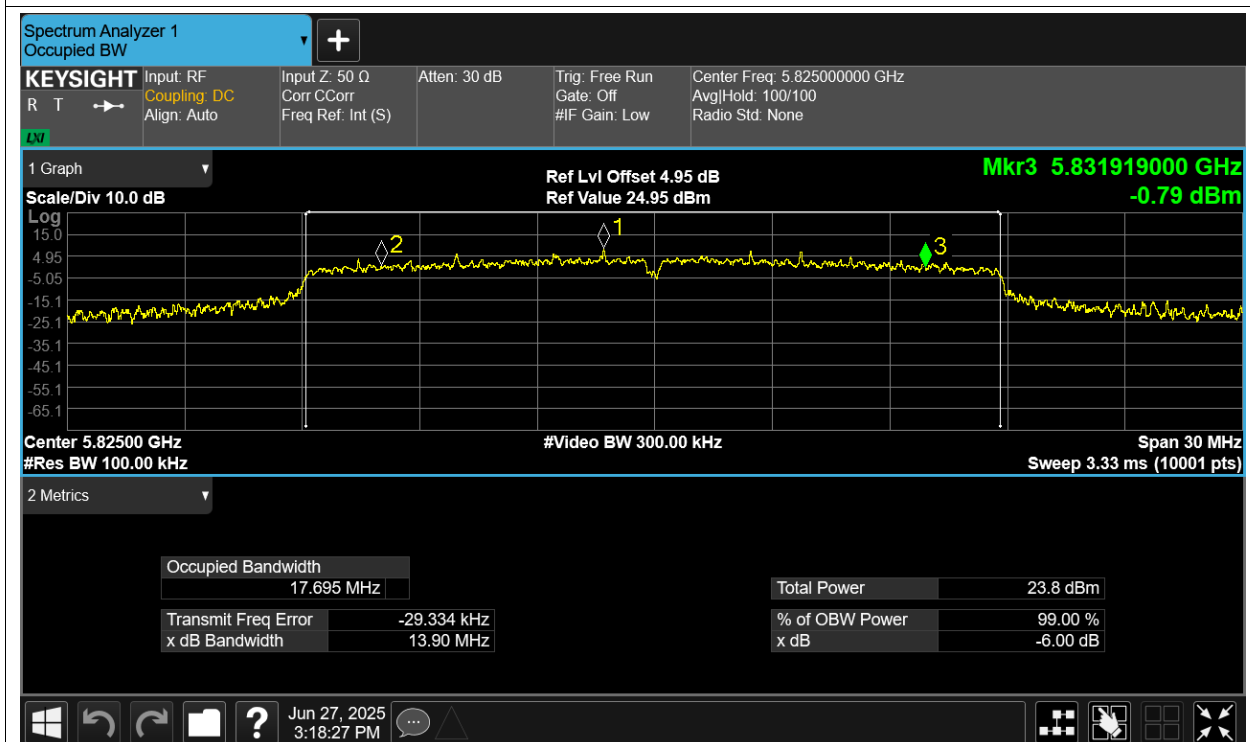
-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1

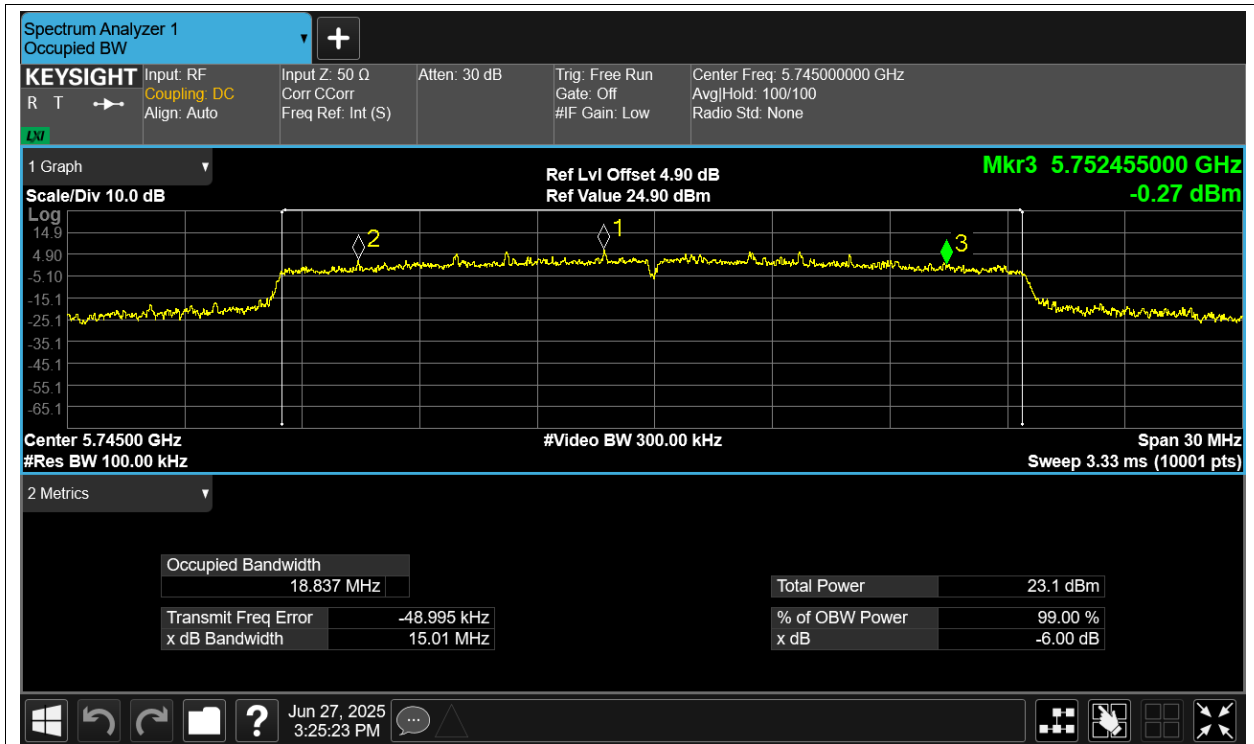


-6dB Bandwidth NVNT ac20 5825MHz Ant1

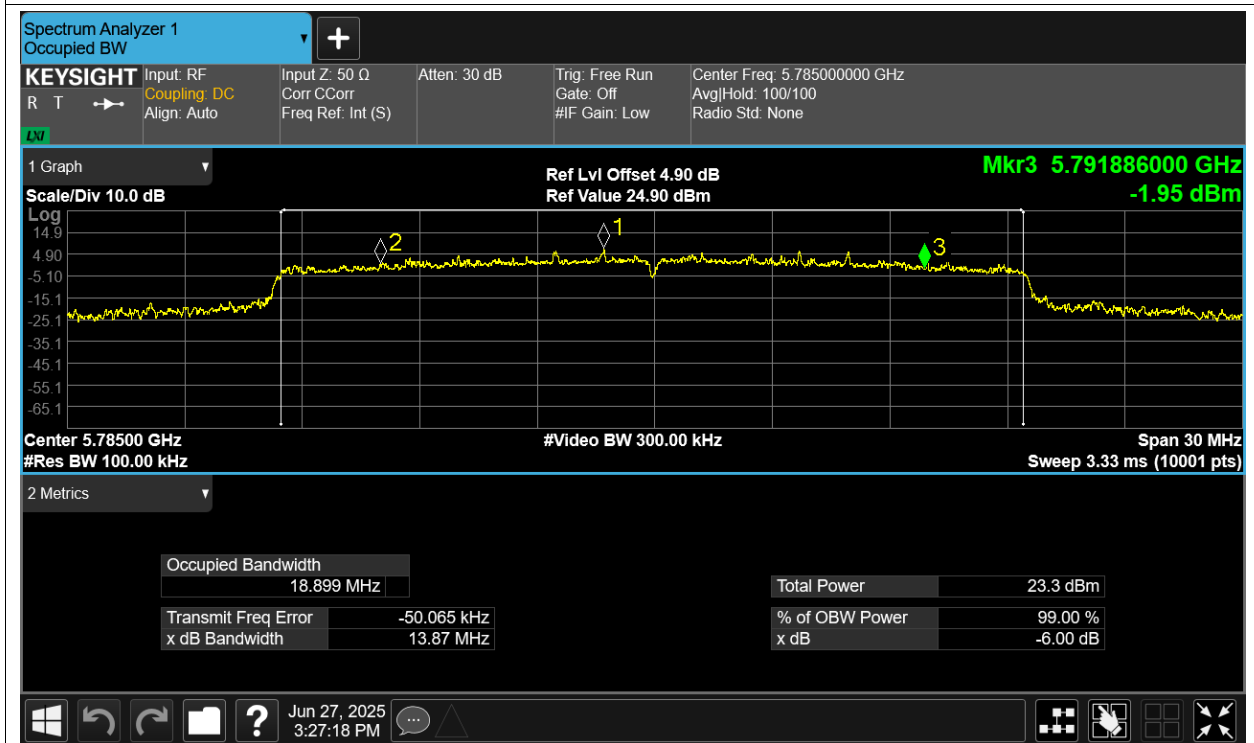


-6dB Bandwidth NVNT ax20 5745MHz Ant1

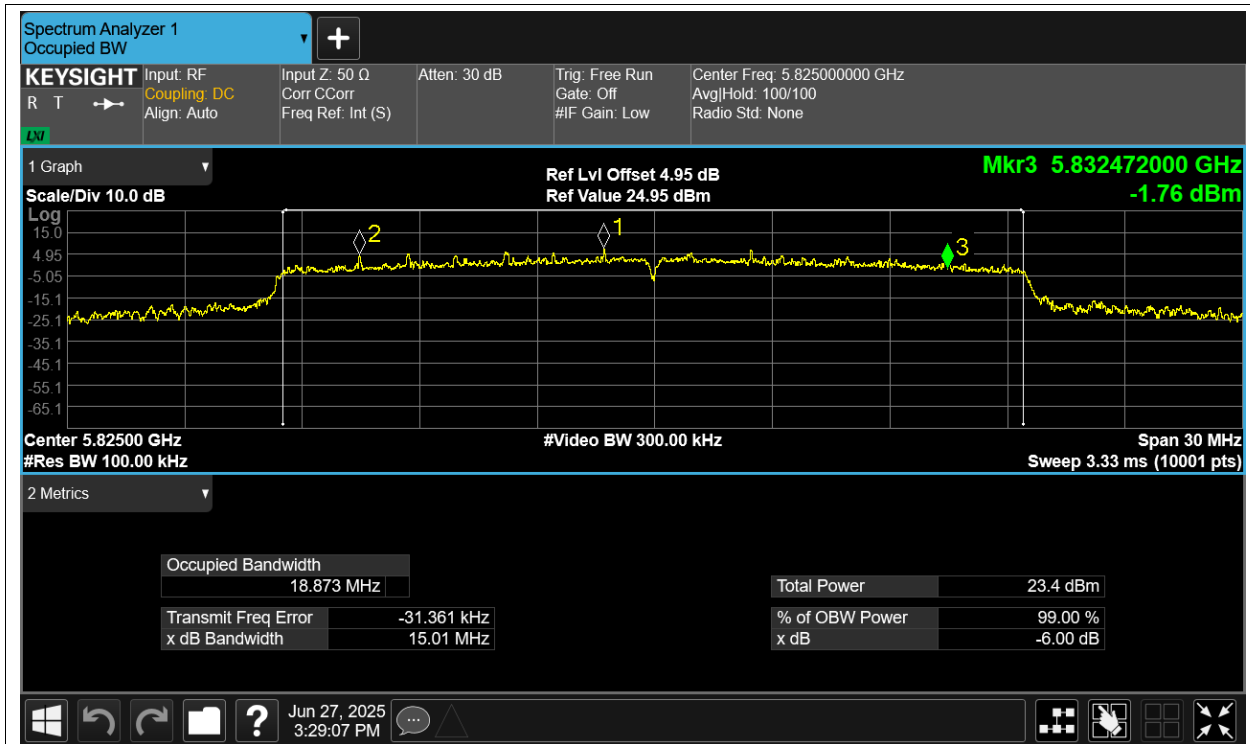




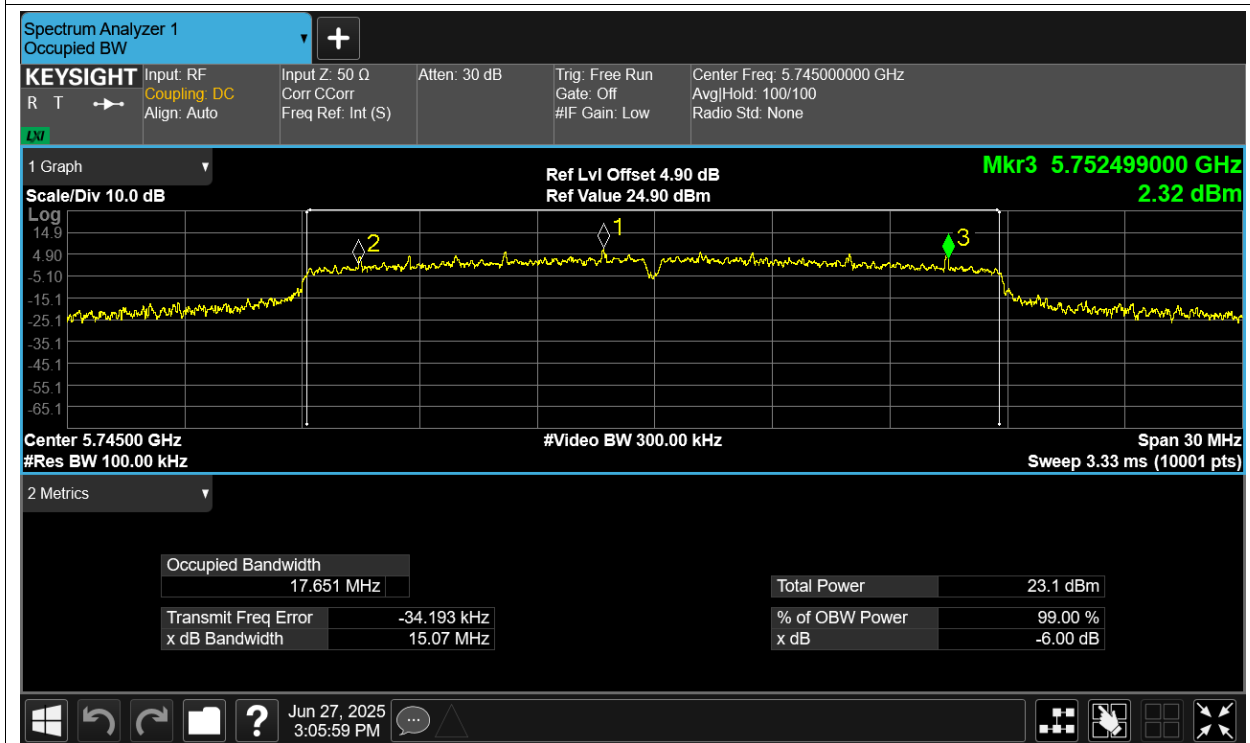
-6dB Bandwidth NVNT ax20 5785MHz Ant1



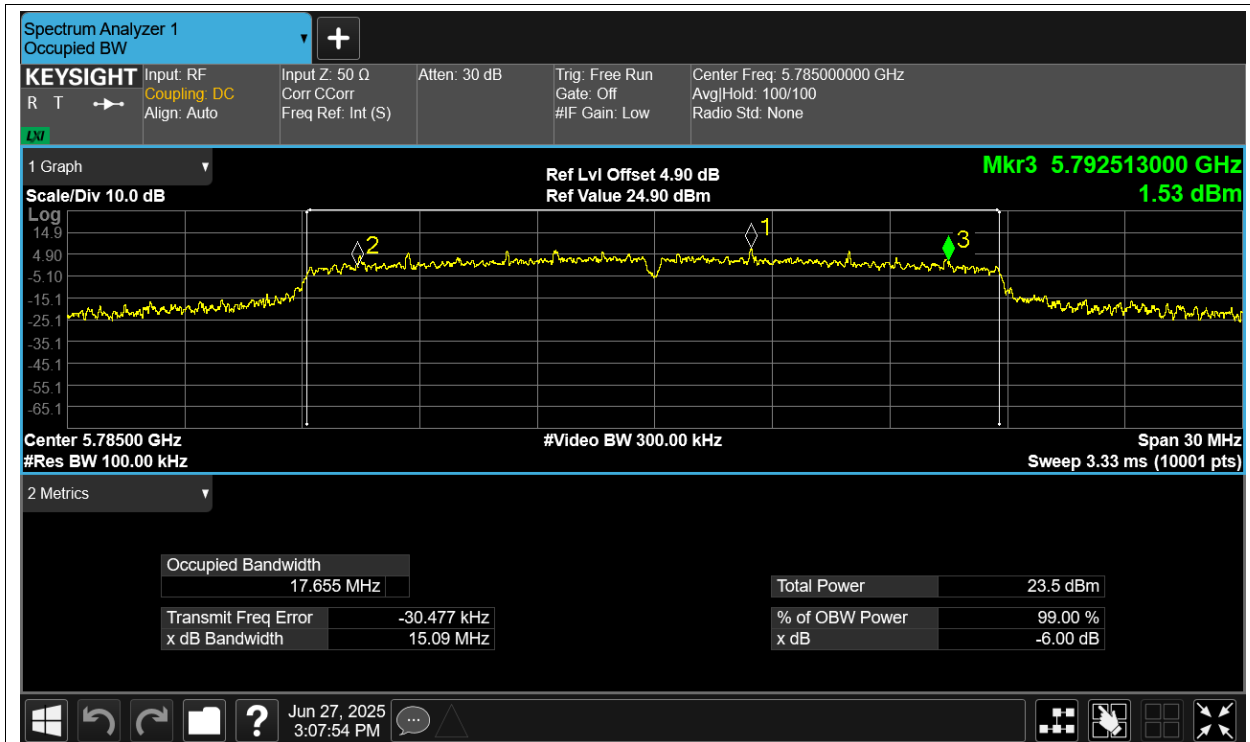
-6dB Bandwidth NVNT ax20 5825MHz Ant1



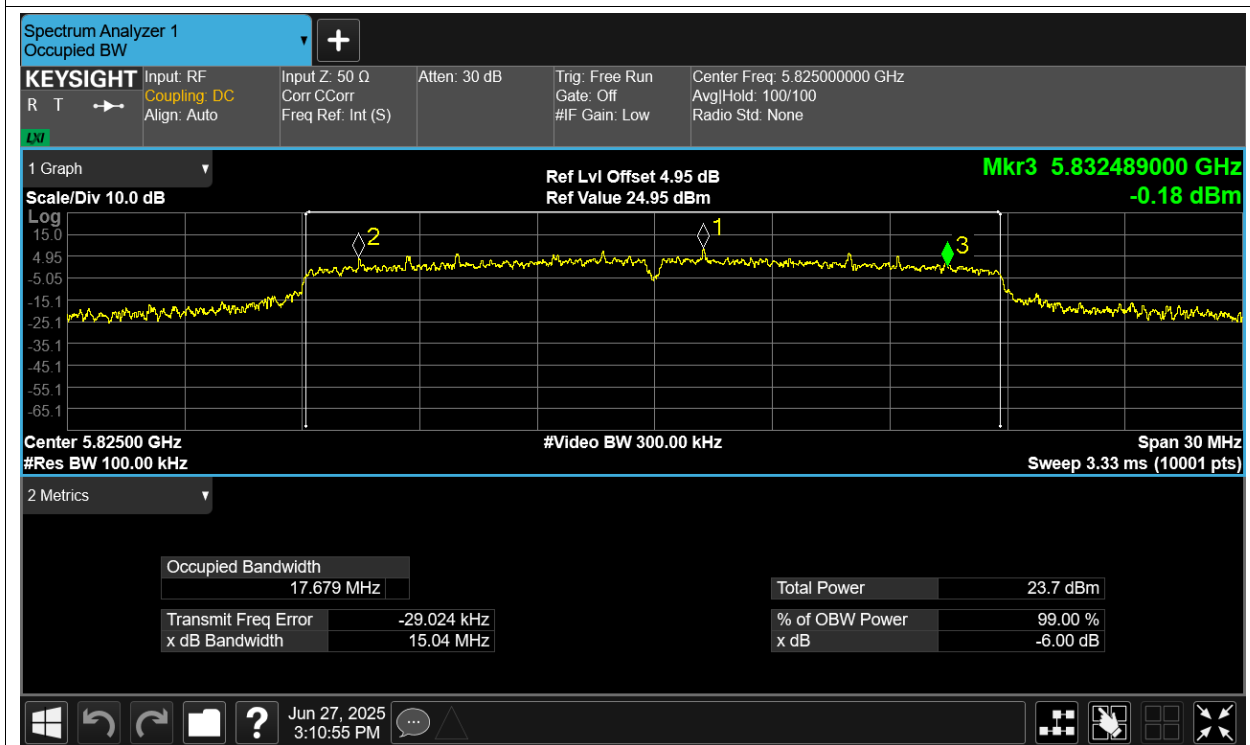
-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1

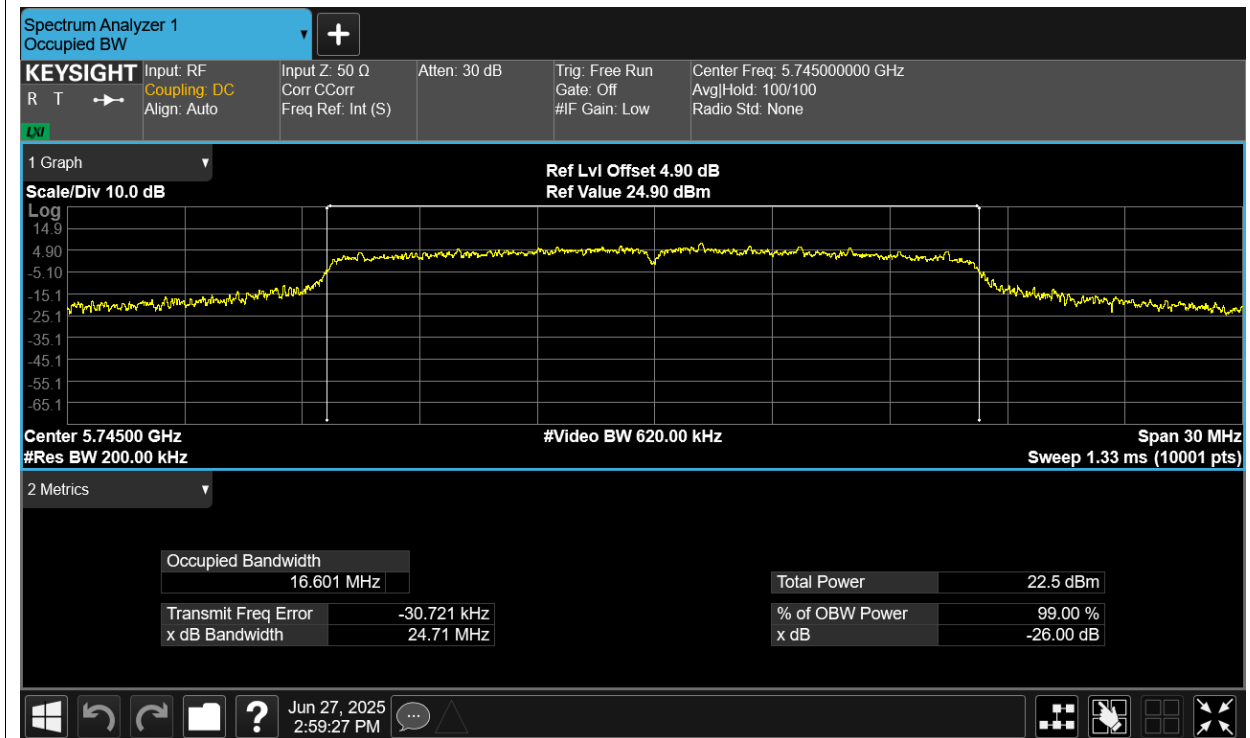


## Occupied Channel Bandwidth

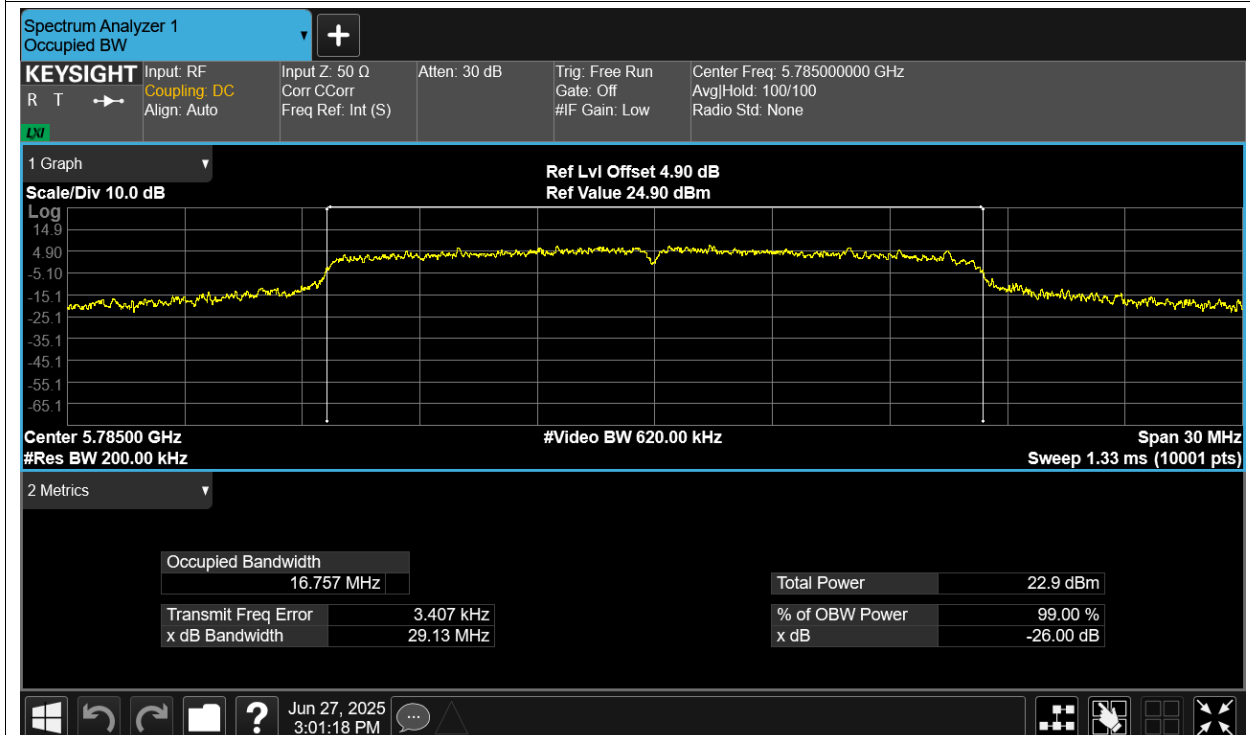
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.601        |
| NVNT      | a    | 5785            | Ant1    | 16.757        |
| NVNT      | a    | 5825            | Ant1    | 16.782        |
| NVNT      | ac20 | 5745            | Ant1    | 17.658        |
| NVNT      | ac20 | 5785            | Ant1    | 17.778        |
| NVNT      | ac20 | 5825            | Ant1    | 17.828        |
| NVNT      | ax20 | 5745            | Ant1    | 18.834        |
| NVNT      | ax20 | 5785            | Ant1    | 18.893        |
| NVNT      | ax20 | 5825            | Ant1    | 18.894        |
| NVNT      | n20  | 5745            | Ant1    | 17.678        |
| NVNT      | n20  | 5785            | Ant1    | 17.798        |
| NVNT      | n20  | 5825            | Ant1    | 17.807        |

## Test Graphs

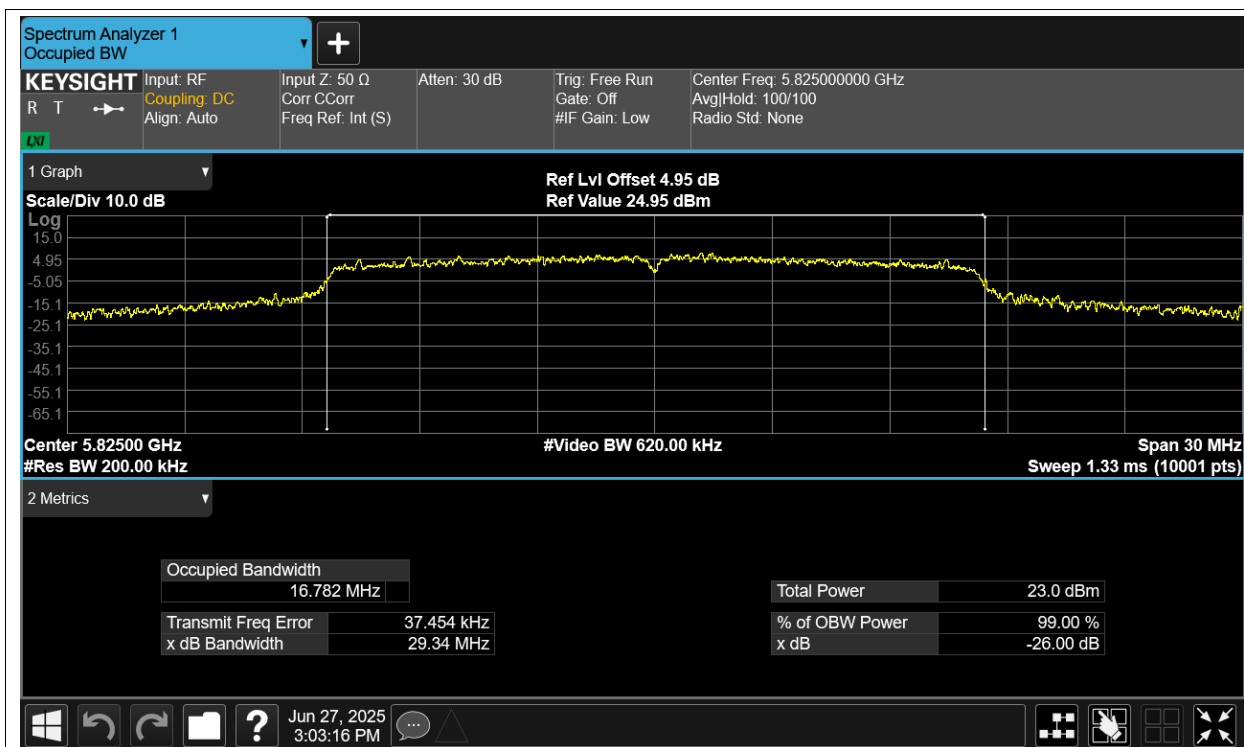
### OBW NVNT a 5745MHz Ant1



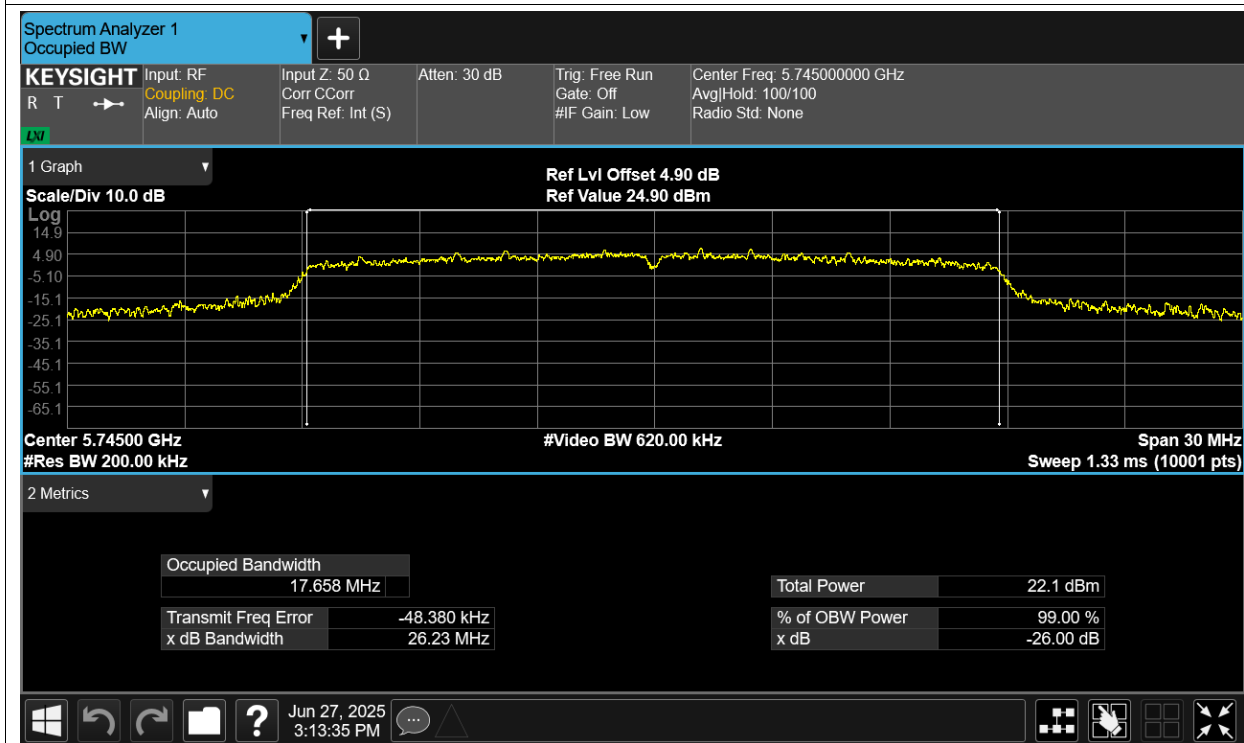
### OBW NVNT a 5785MHz Ant1



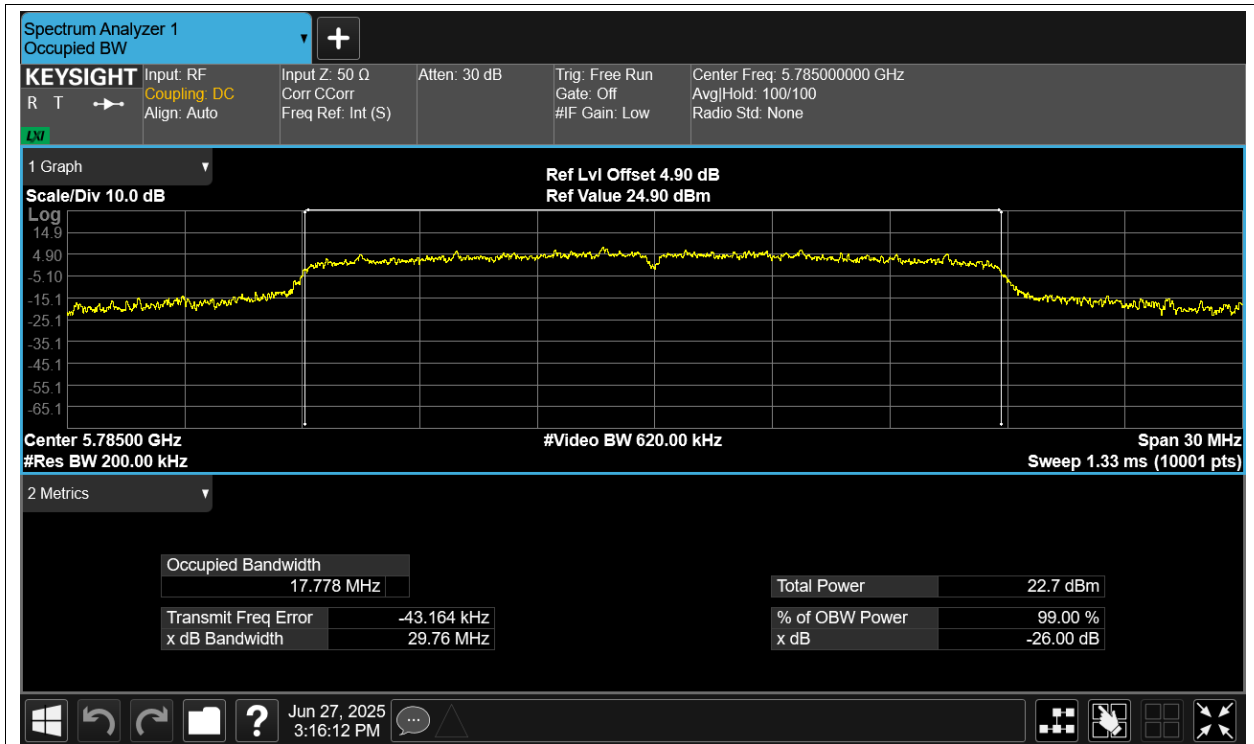
### OBW NVNT a 5825MHz Ant1



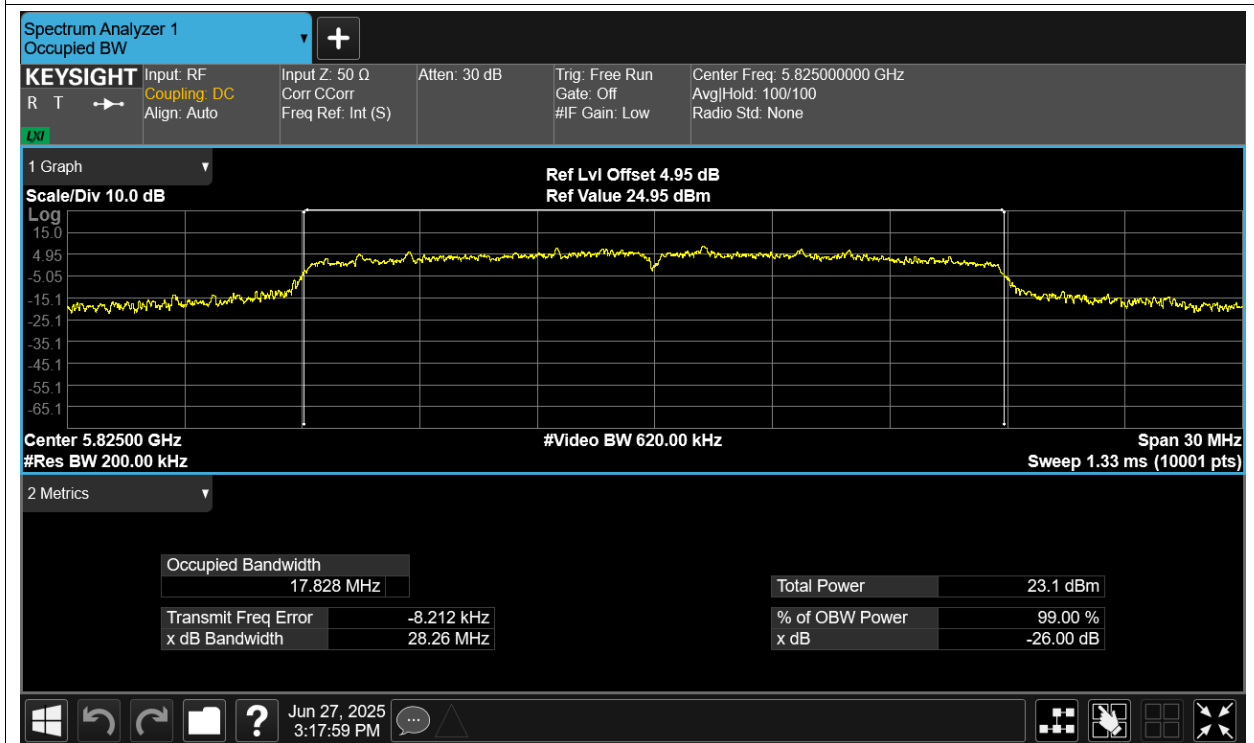
OBW NVNT ac20 5745MHz Ant1



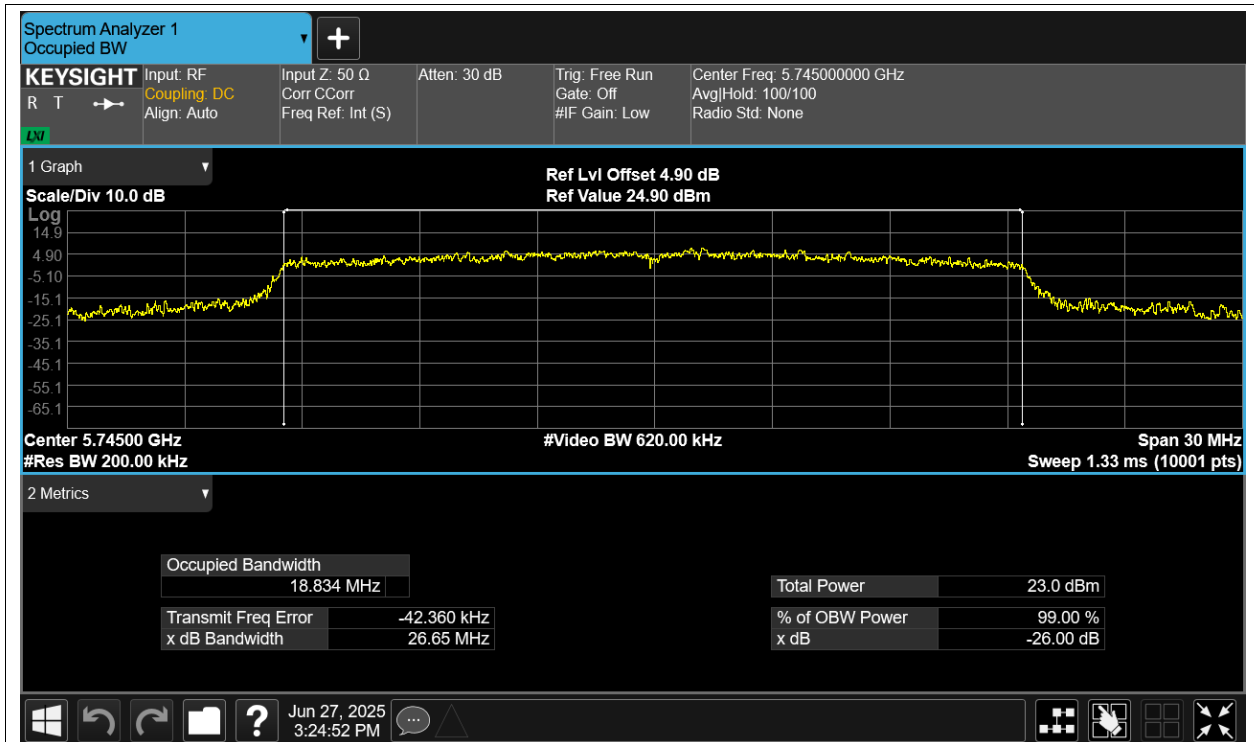
OBW NVNT ac20 5785MHz Ant1



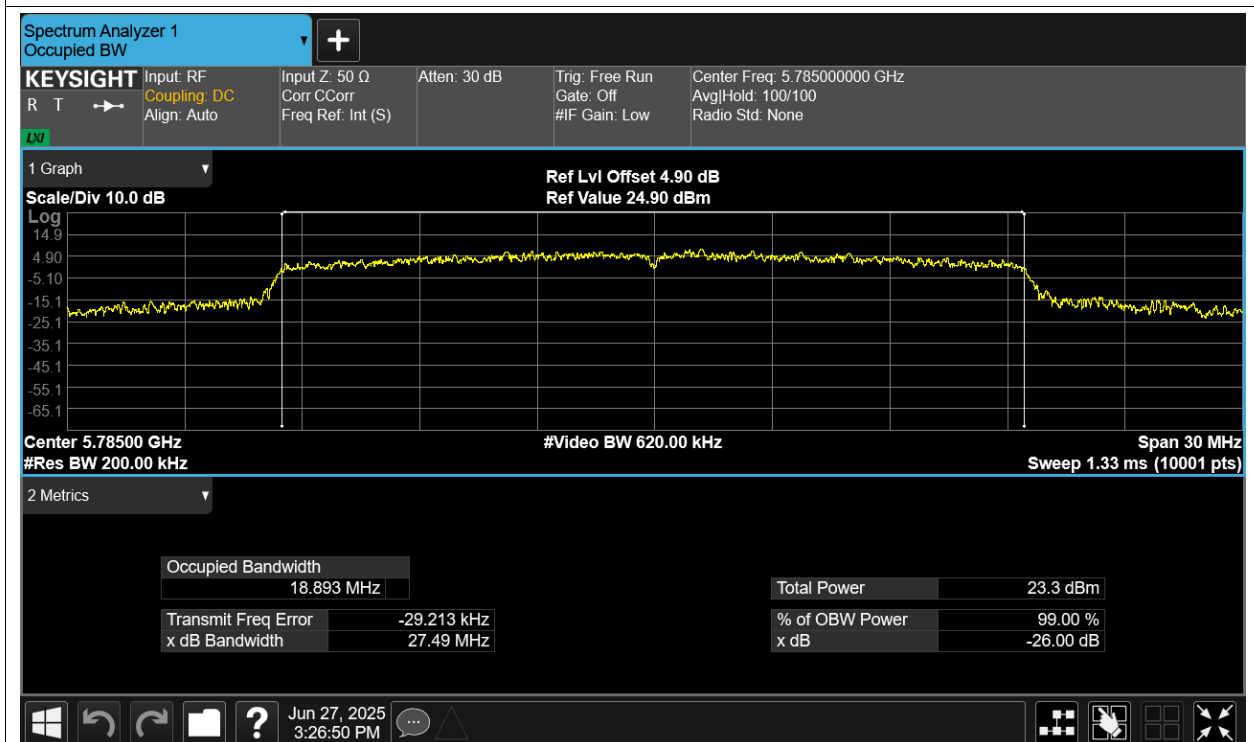
OBW NVNT ac20 5825MHz Ant1



OBW NVNT ax20 5745MHz Ant1

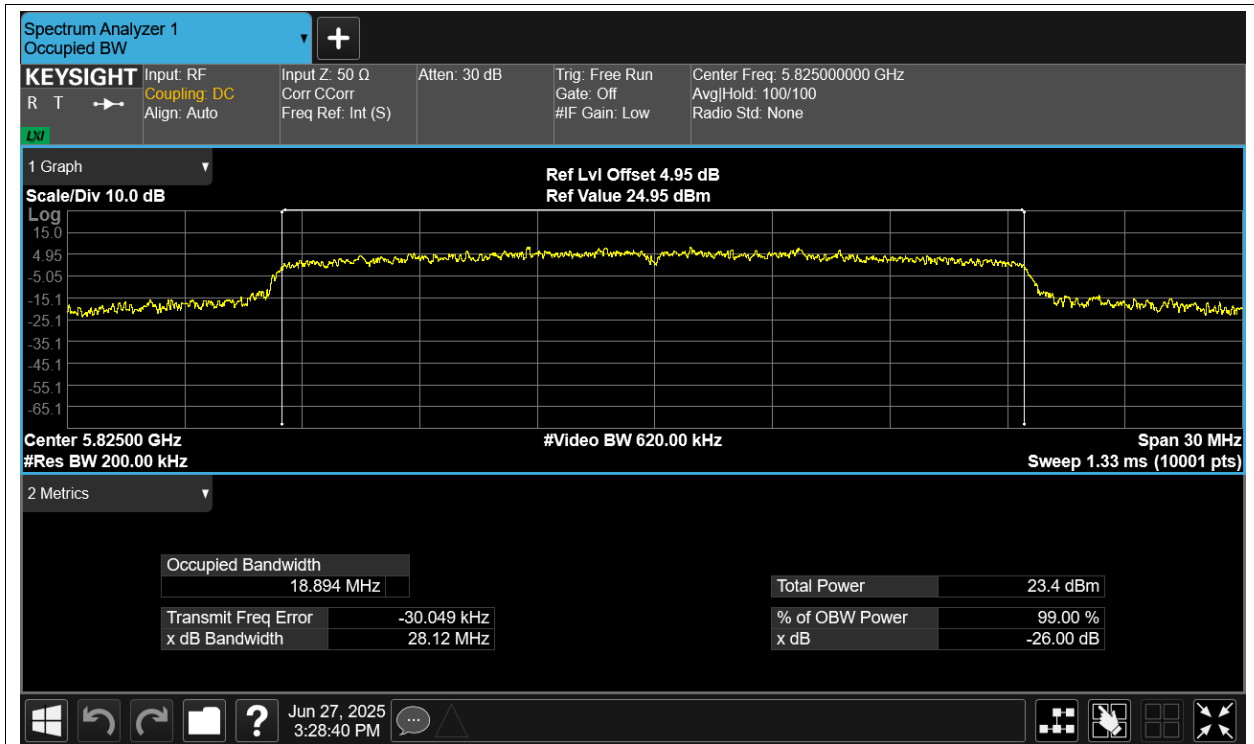


OBW NVNT ax20 5785MHz Ant1

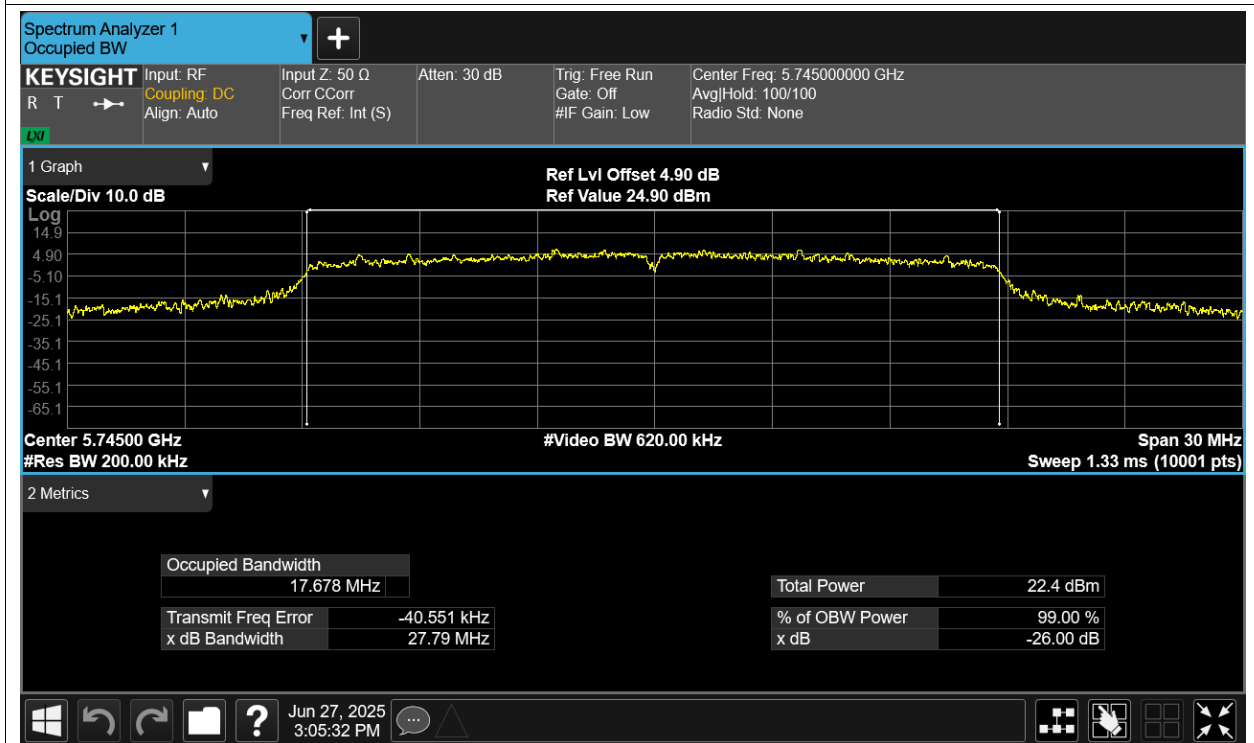


OBW NVNT ax20 5825MHz Ant1

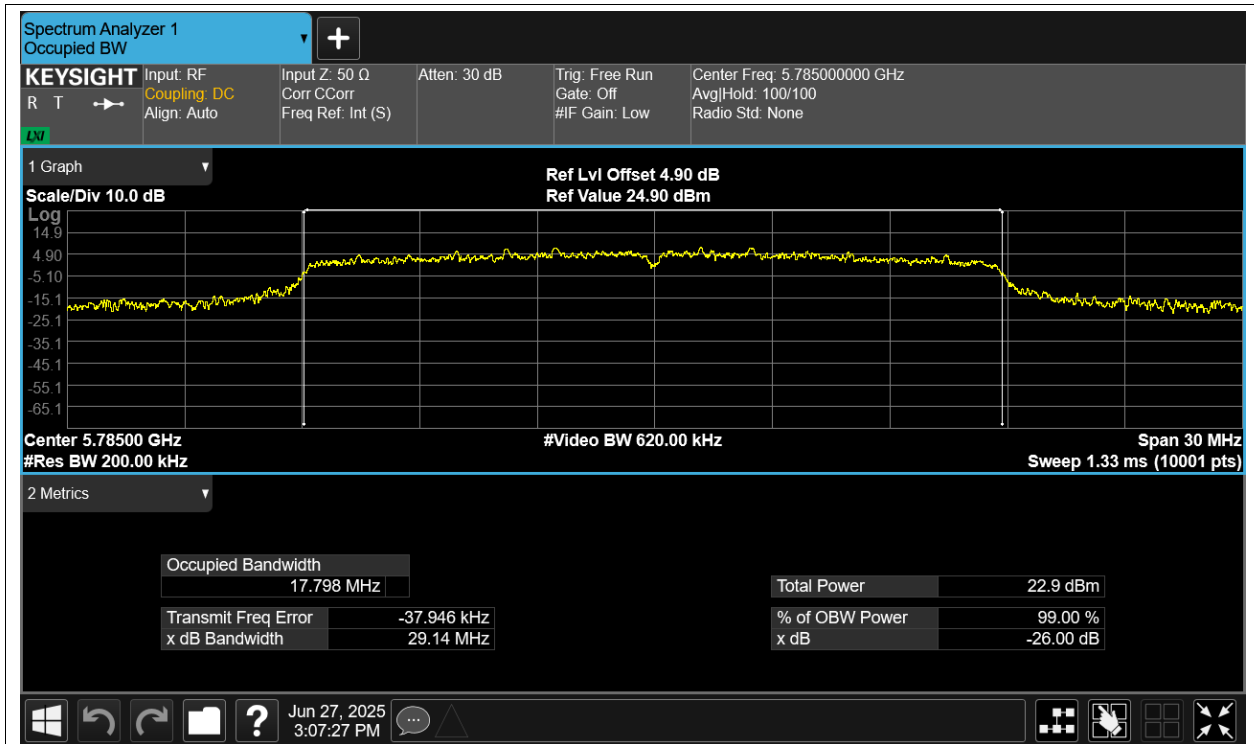




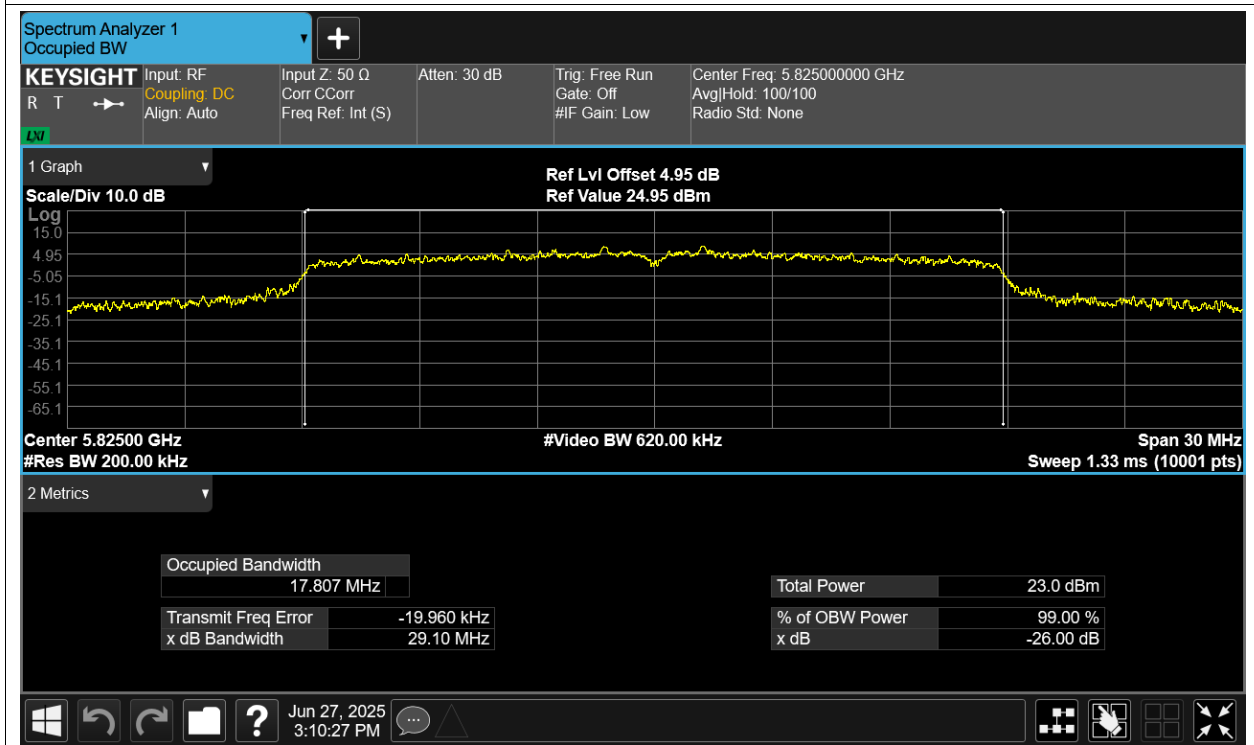
OBW NVNT n20 5745MHz Ant1



OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



## Maximum Power Spectral Density Level

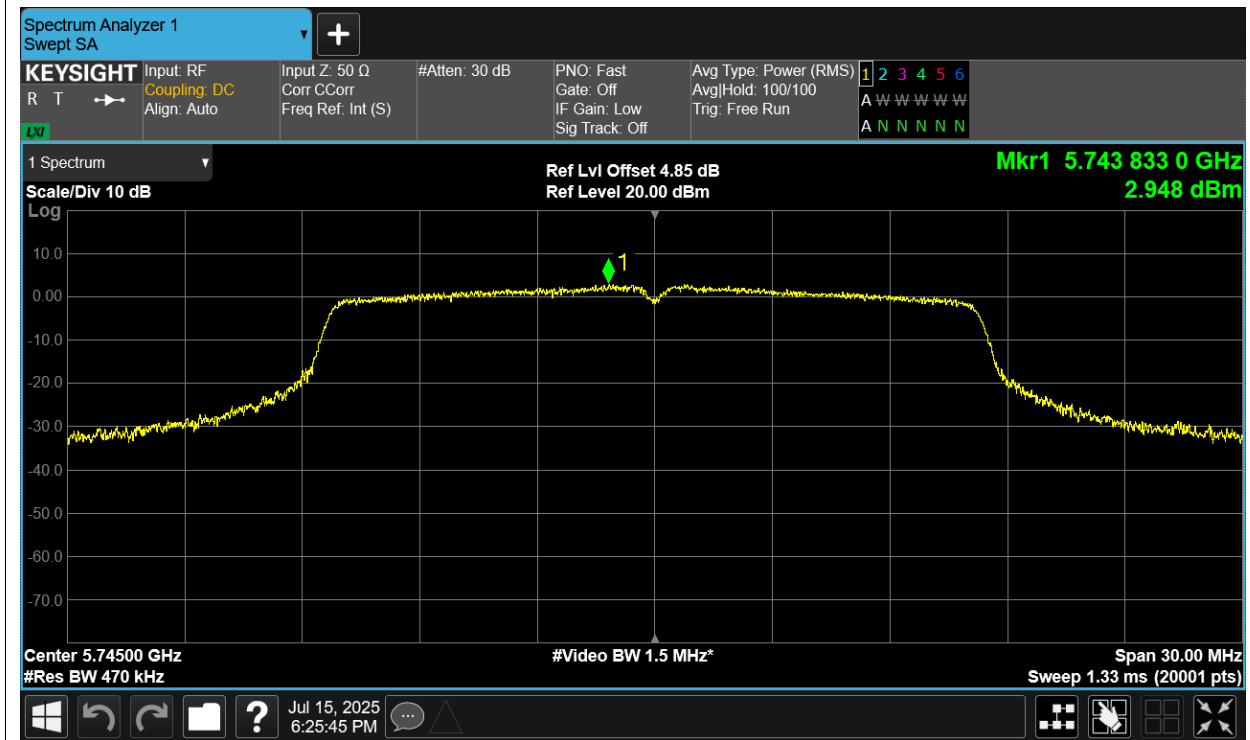
| Condition | Mode | Frequency (MHz) | Antenna | RBW (kHz) | Measured Factor (dB) | Duty Factor (dB) | Conducted PSD (dBm/470KHz) | Total PSD (dBm/500KHz) | Limit (dBm/500KHz) | Verdict |
|-----------|------|-----------------|---------|-----------|----------------------|------------------|----------------------------|------------------------|--------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 470       | 0.27                 | 0.29             | 2.948                      | 3.508                  | 30                 | Pass    |
| NVNT      | a    | 5785            | Ant1    | 470       | 0.27                 | 0.3              | 2.986                      | 3.556                  | 30                 | Pass    |
| NVNT      | a    | 5825            | Ant1    | 470       | 0.27                 | 0.3              | 3.371                      | 3.941                  | 30                 | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 470       | 0.27                 | 0.32             | 2.964                      | 3.554                  | 30                 | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 470       | 0.27                 | 0.3              | 2.645                      | 3.215                  | 30                 | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 470       | 0.27                 | 0.3              | 2.902                      | 3.472                  | 30                 | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 470       | 0.27                 | 0.53             | 2.076                      | 2.876                  | 30                 | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 470       | 0.27                 | 0.53             | 2.726                      | 3.526                  | 30                 | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 470       | 0.27                 | 0.53             | 2.732                      | 3.532                  | 30                 | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 470       | 0.27                 | 0.34             | 2.683                      | 3.293                  | 30                 | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 470       | 0.27                 | 0.32             | 2.738                      | 3.328                  | 30                 | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 470       | 0.27                 | 0.32             | 3.229                      | 3.819                  | 30                 | Pass    |

Note: Total PSD (dBm) = Conducted PSD (dBm) + Measure Factor + Duty Factor,

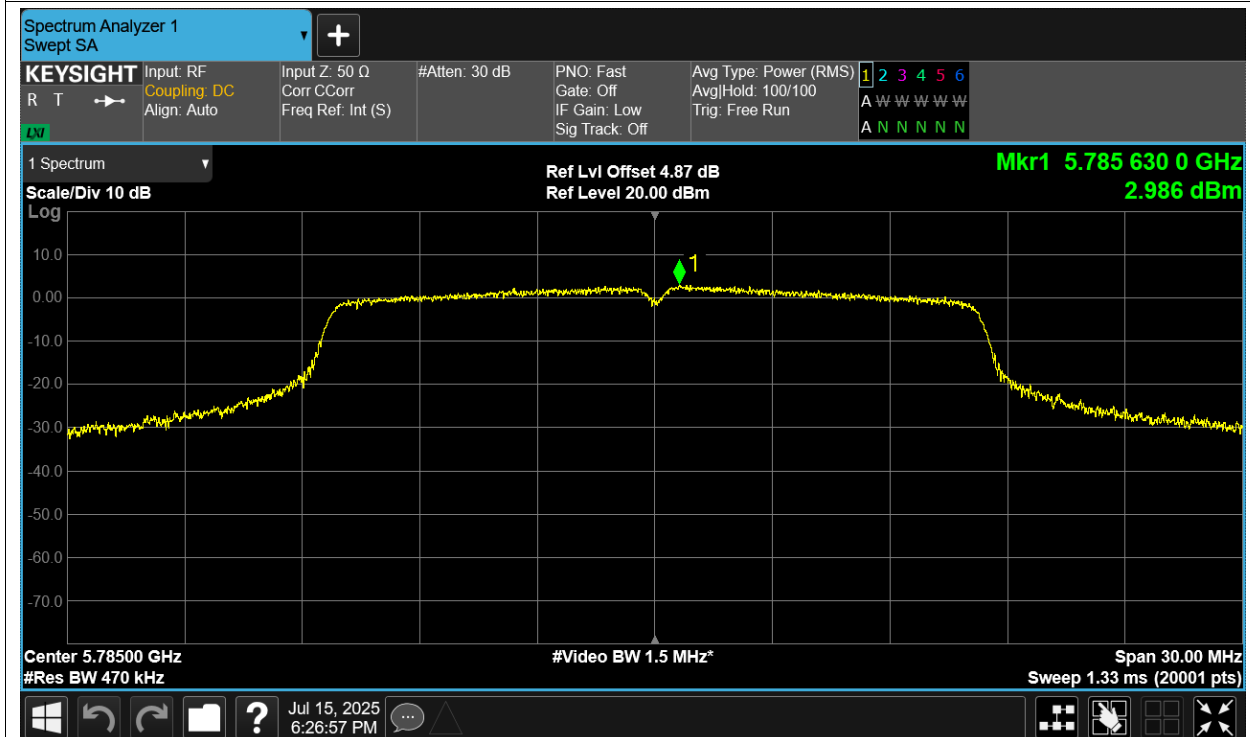
Measured Factor= 10 log (MBW/RBW), MBW=500 KHz.

## Test Graphs

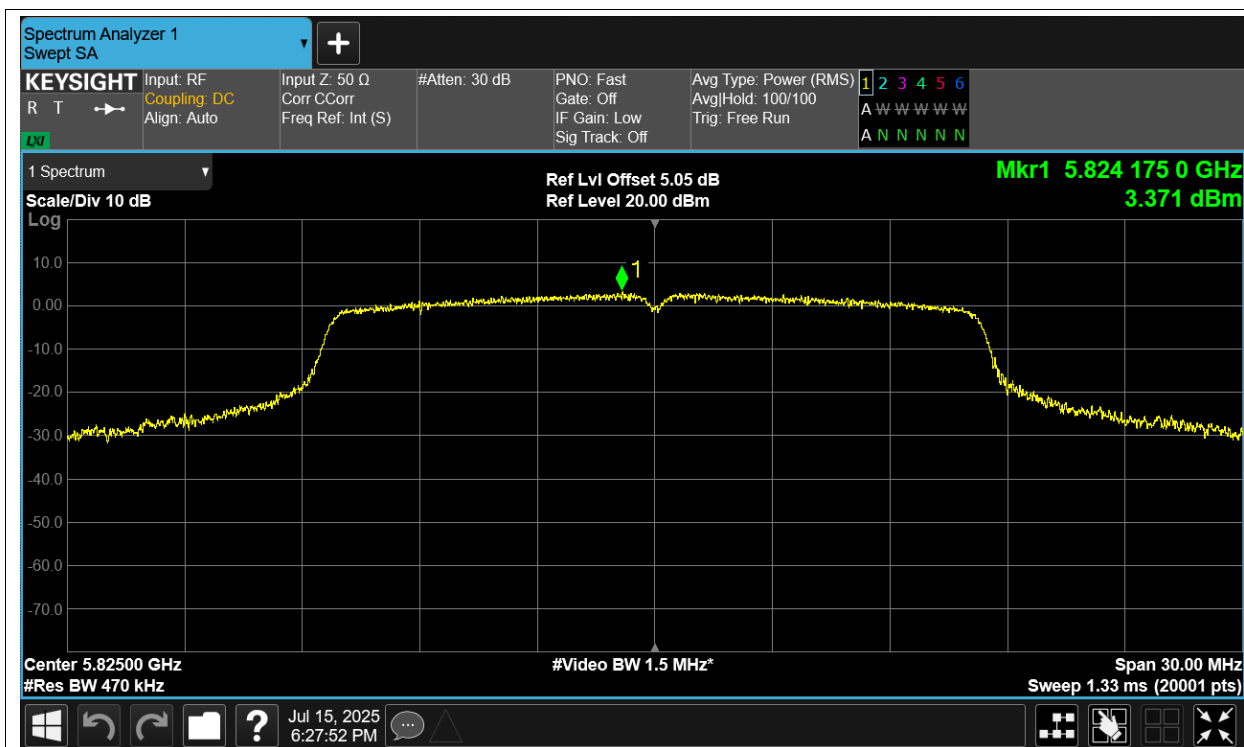
PSD NVNT a 5745MHz Ant1



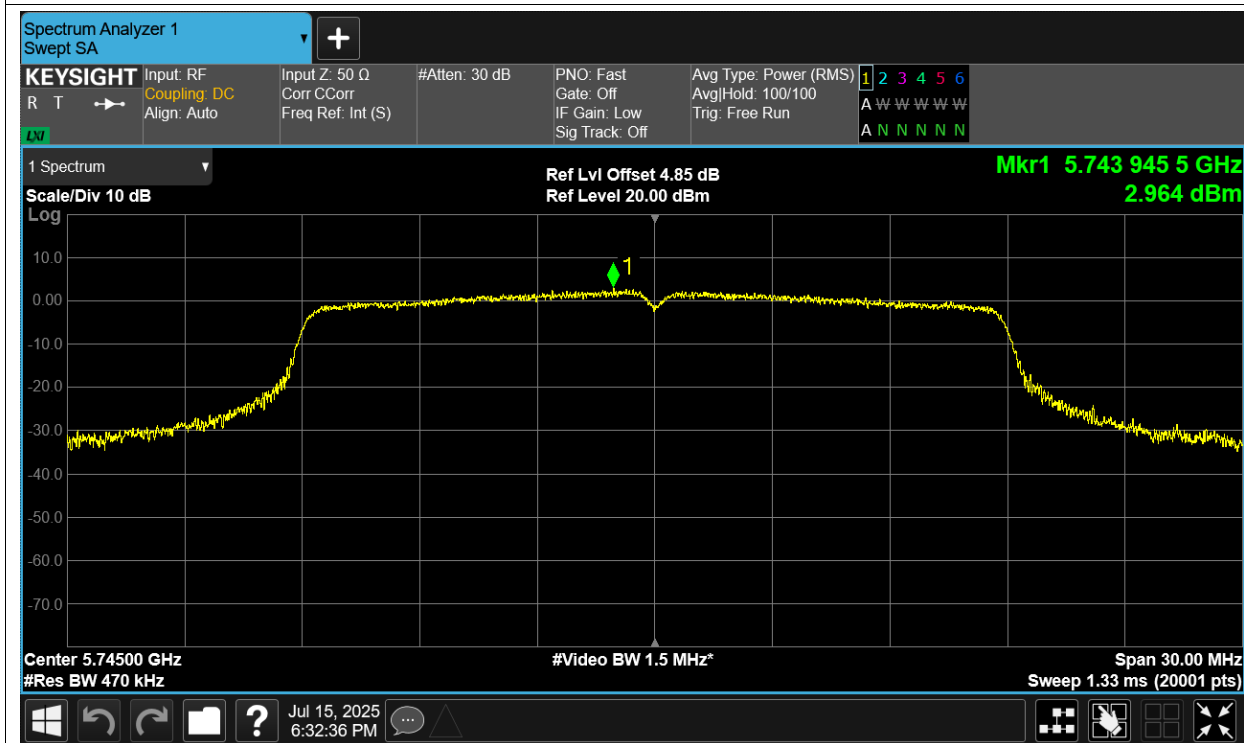
PSD NVNT a 5785MHz Ant1



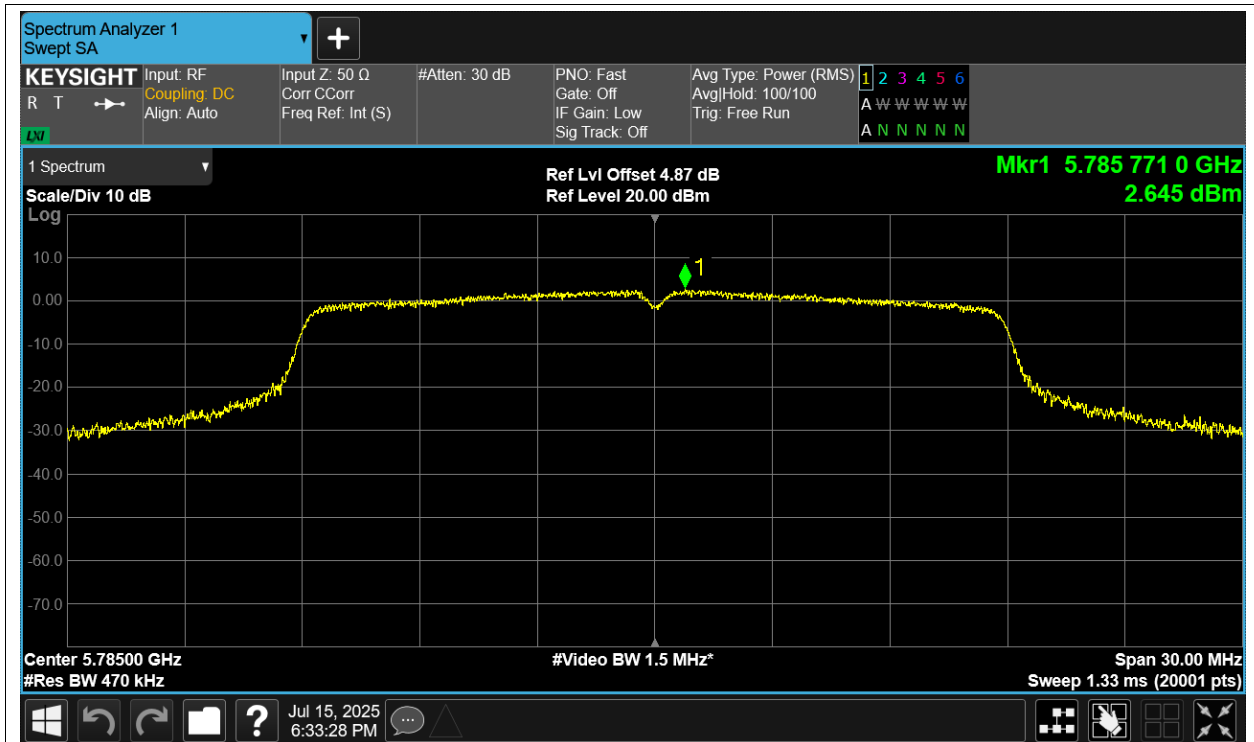
PSD NVNT a 5825MHz Ant1



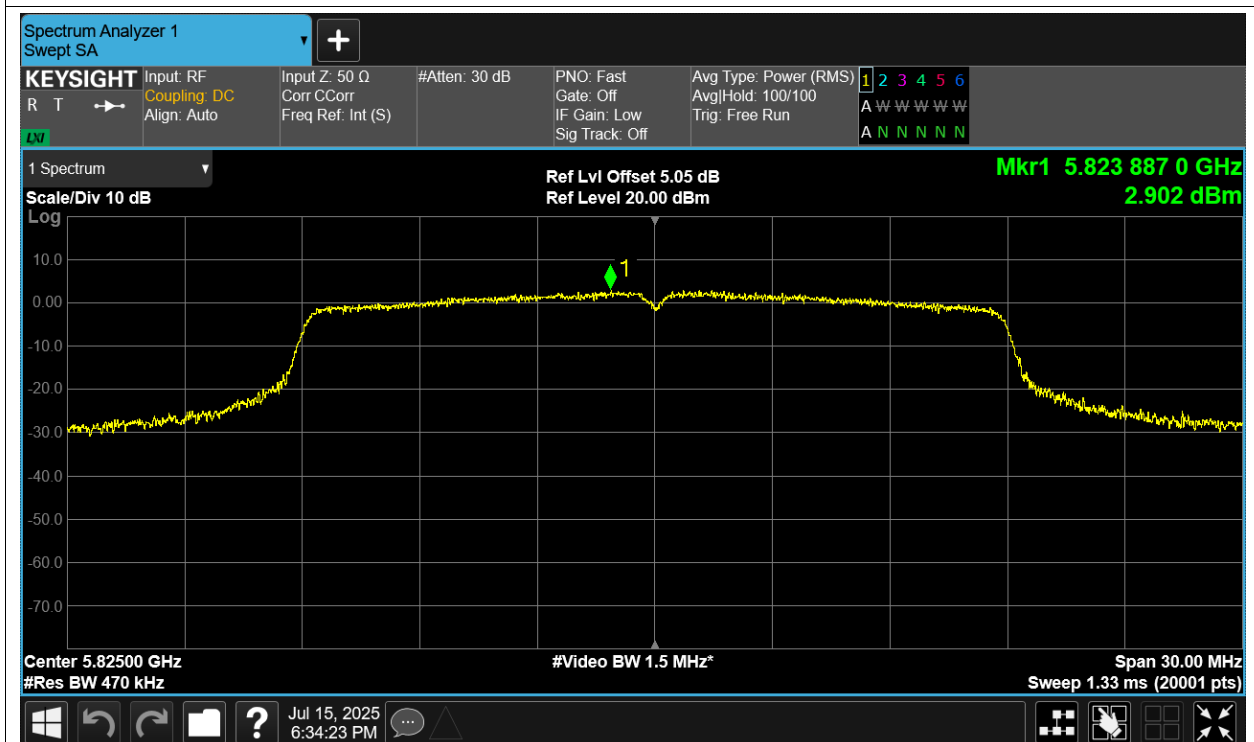
PSD NVNT ac20 5745MHz Ant1



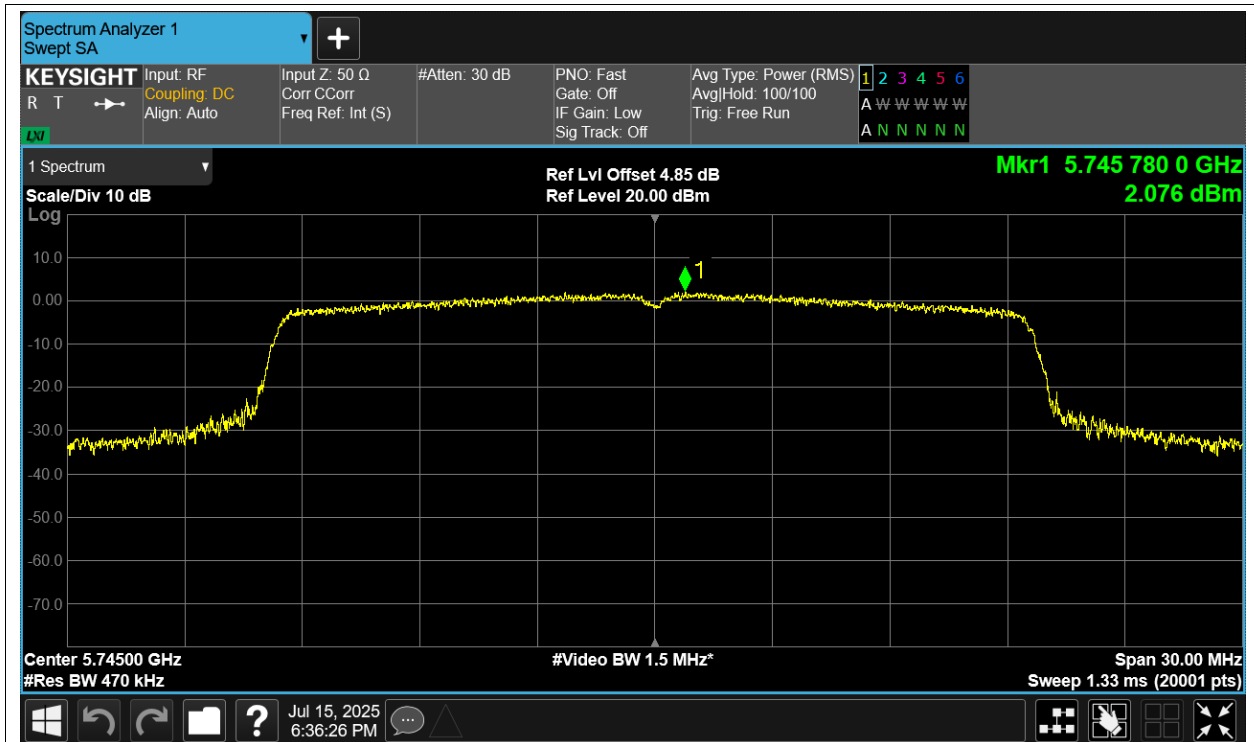
PSD NVNT ac20 5785MHz Ant1



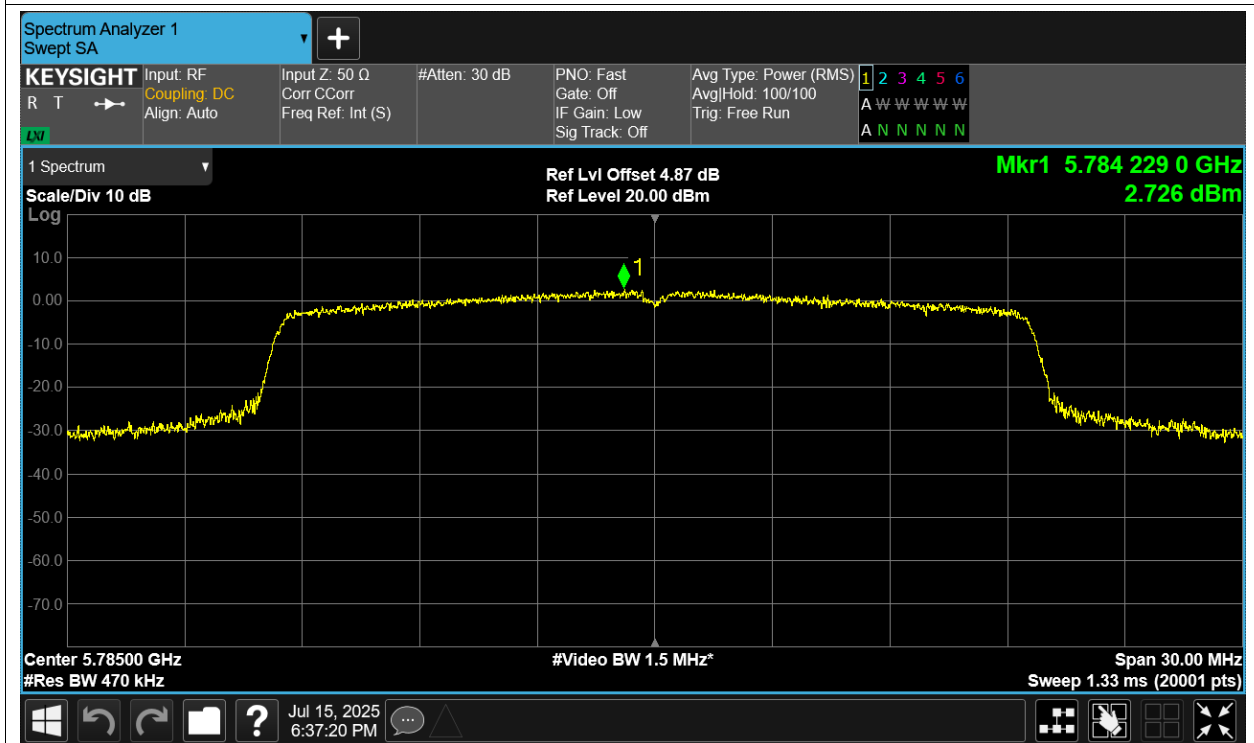
PSD NVNT ac20 5825MHz Ant1



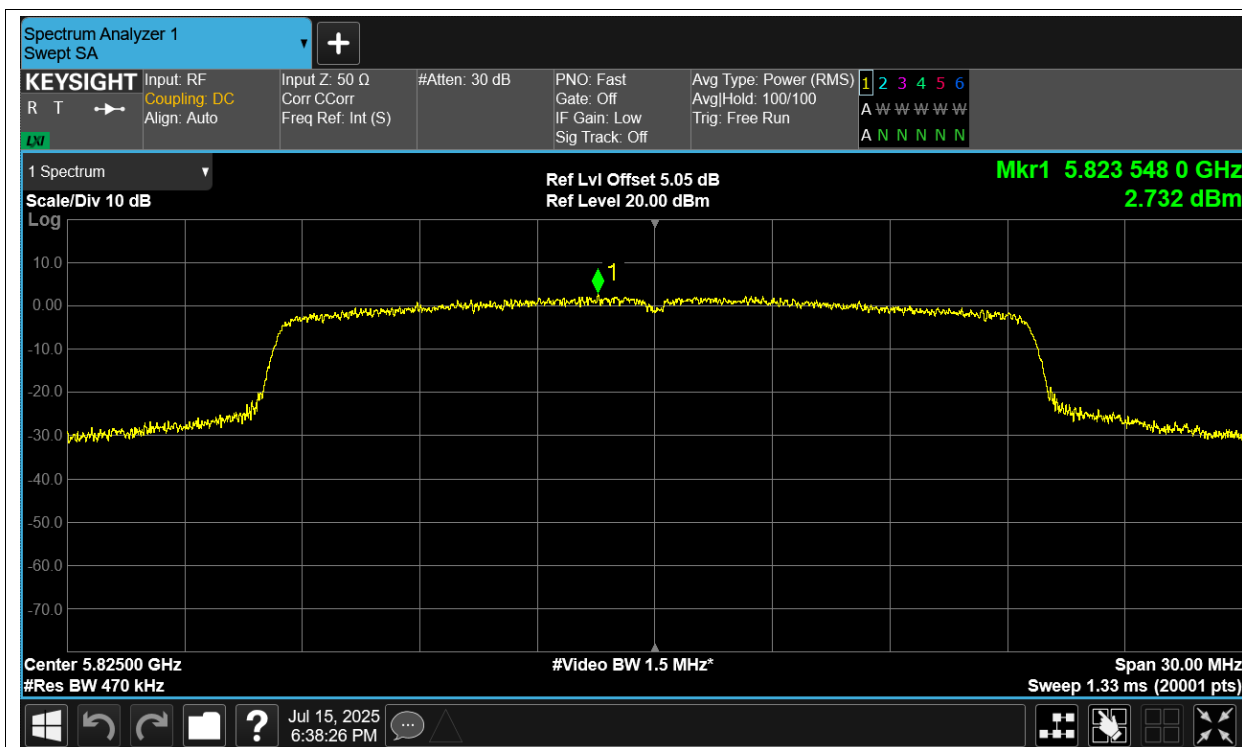
PSD NVNT ax20 5745MHz Ant1



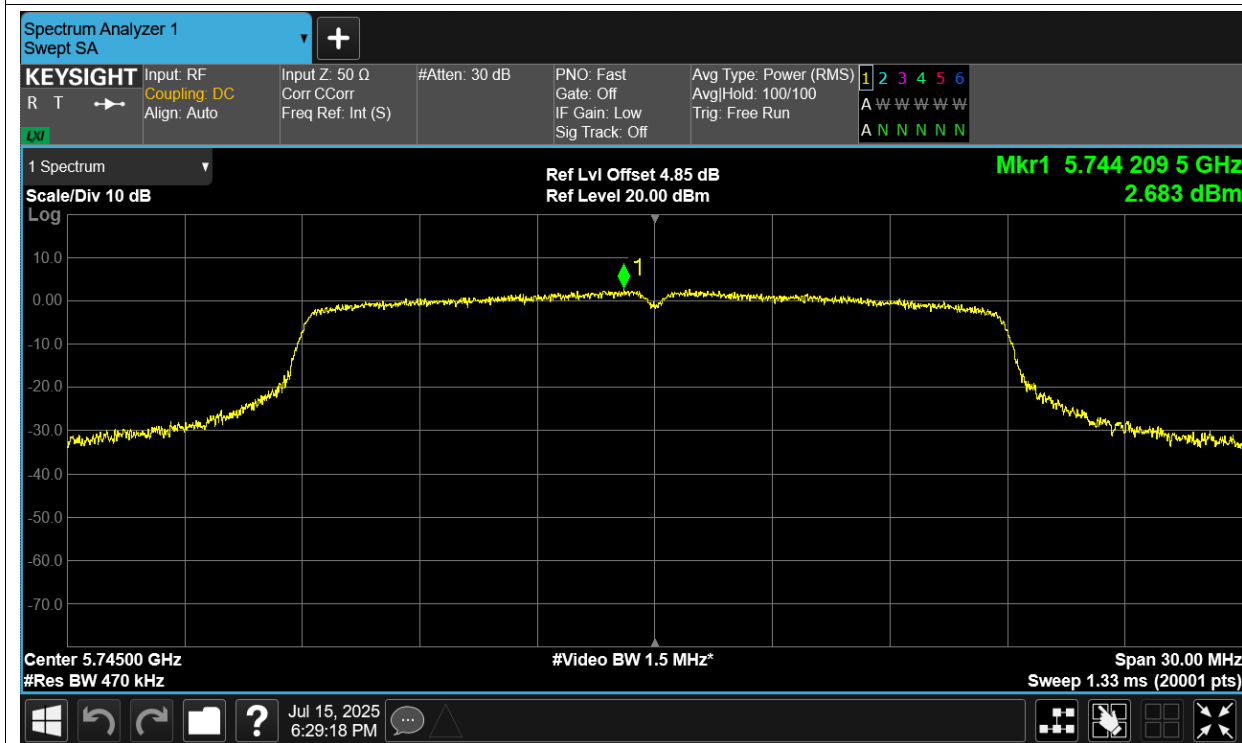
PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1

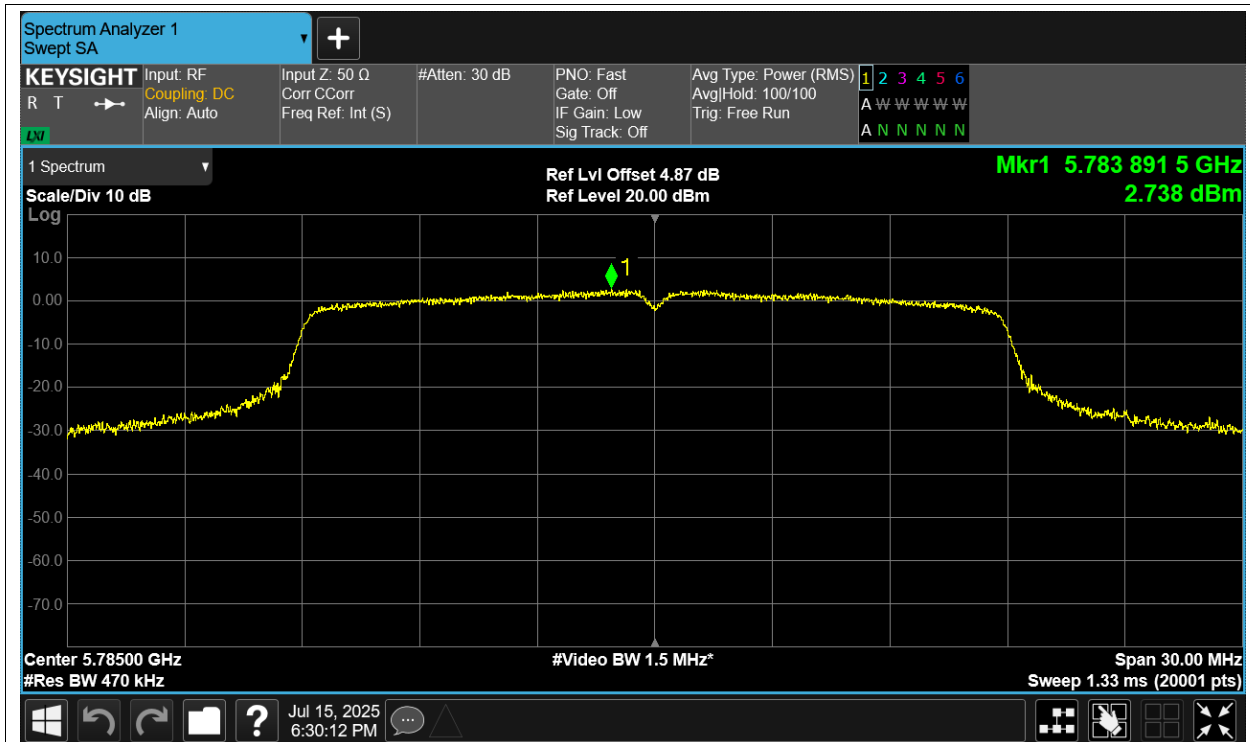


PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1





PSD NVNT n20 5825MHz Ant1

