

## Test Data

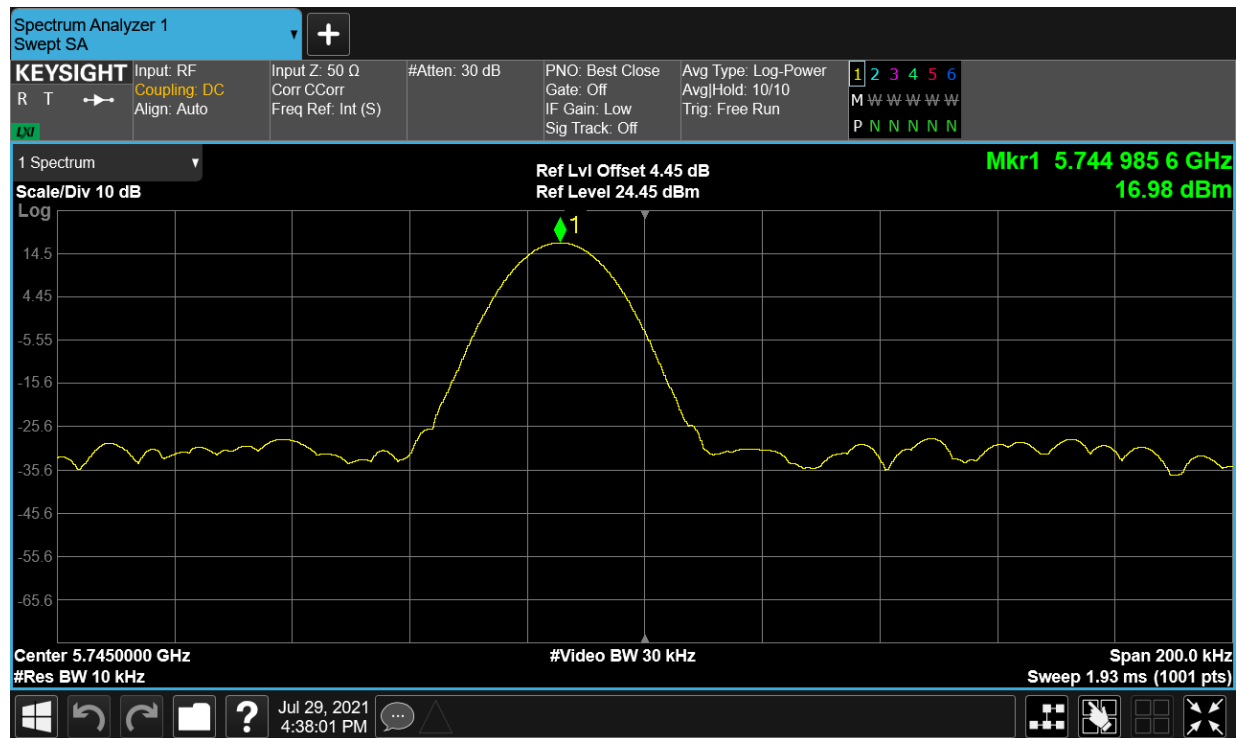
### Frequency Stability(worst case mode)

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|-----------------|-------------|---------|
| HVHT      | a    | 5745            | Ant1    | 5744.9856                | -2.51           | 25          | Pass    |
| HVLT      | a    | 5745            | Ant1    | 5744.9856                | -2.51           | 25          | Pass    |
| LVHT      | a    | 5745            | Ant1    | 5744.9856                | -2.51           | 25          | Pass    |
| LVLT      | a    | 5745            | Ant1    | 5744.9858                | -2.47           | 25          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5744.9858                | -2.47           | 25          | Pass    |
| HVHT      | ac80 | 5775            | Ant1    | 5774.9858                | -2.46           | 25          | Pass    |
| HVLT      | ac80 | 5775            | Ant1    | 5774.9858                | -2.46           | 25          | Pass    |
| LVHT      | ac80 | 5775            | Ant1    | 5774.9858                | -2.46           | 25          | Pass    |
| LVLT      | ac80 | 5775            | Ant1    | 5774.986                 | -2.42           | 25          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 5774.986                 | -2.42           | 25          | Pass    |
| HVHT      | n40  | 5755            | Ant1    | 5754.9858                | -2.47           | 25          | Pass    |
| HVLT      | n40  | 5755            | Ant1    | 5754.9858                | -2.47           | 25          | Pass    |
| LVHT      | n40  | 5755            | Ant1    | 5754.986                 | -2.43           | 25          | Pass    |
| LVLT      | n40  | 5755            | Ant1    | 5754.986                 | -2.43           | 25          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5754.9862                | -2.4            | 25          | Pass    |

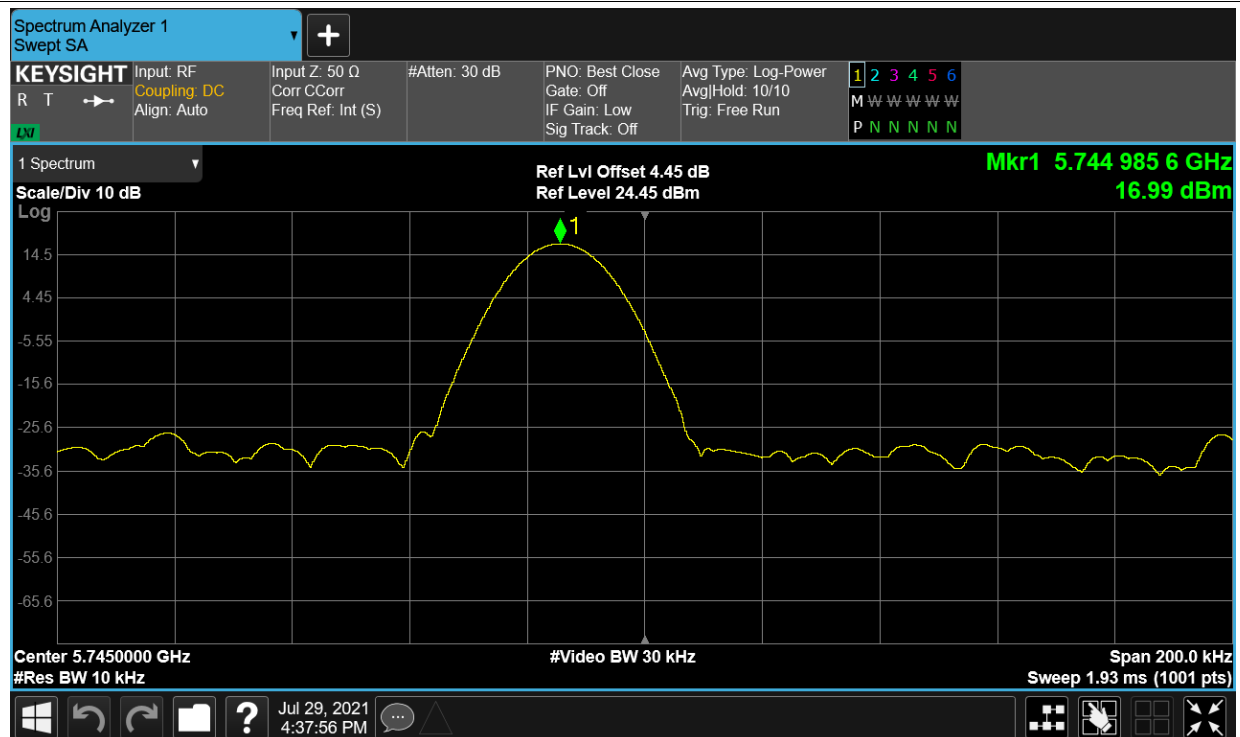
Remark: "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.

## Test Graphs

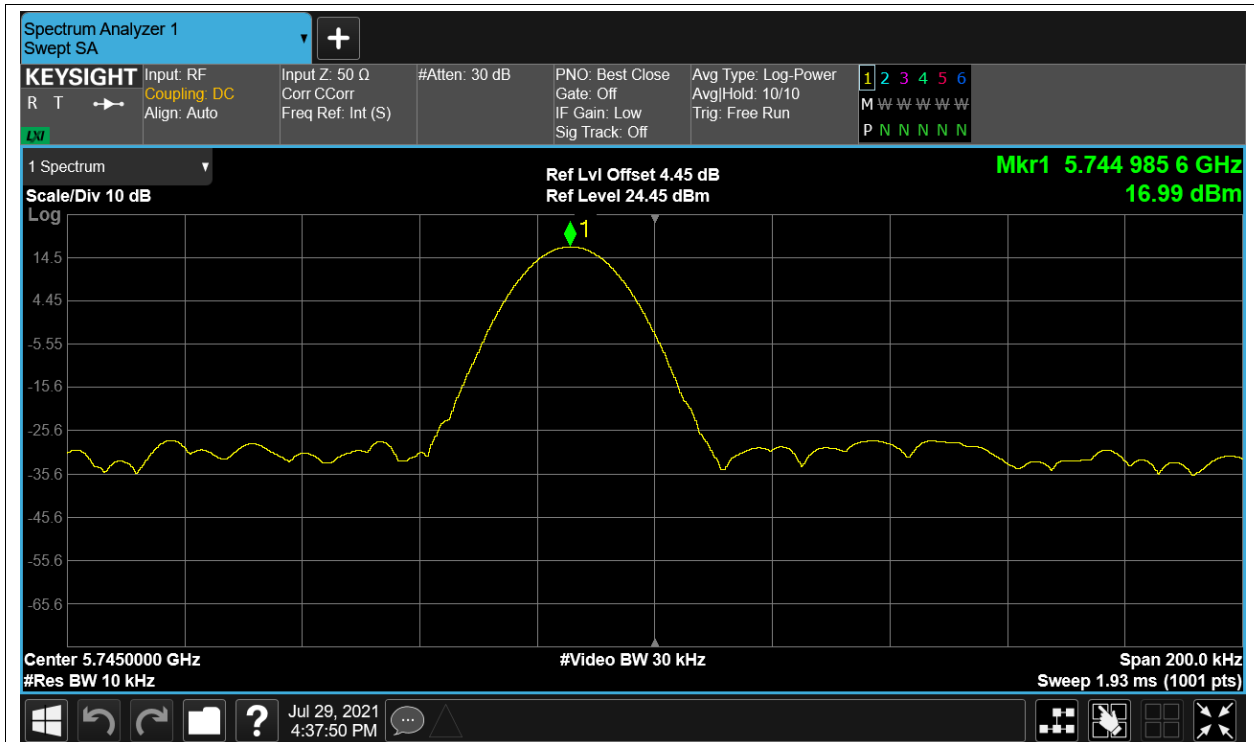
Freq. Stability HVHT a 5745MHz Ant1



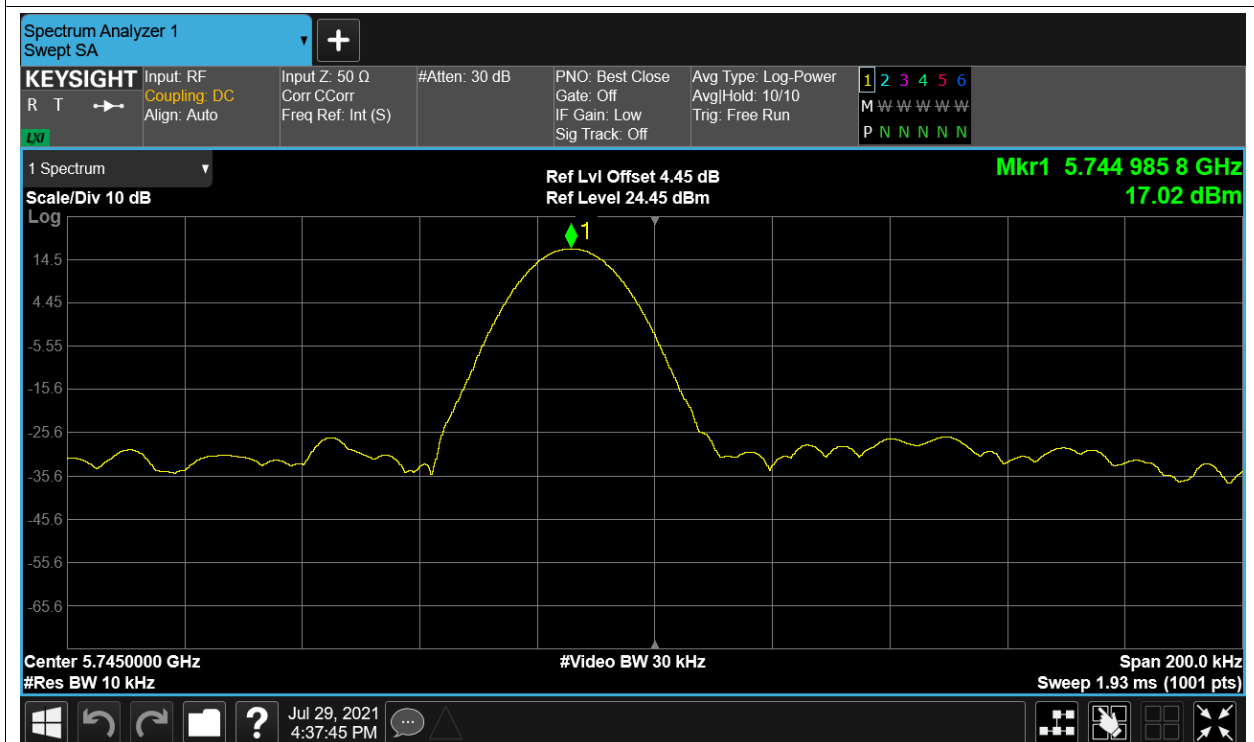
Freq. Stability HVLT a 5745MHz Ant1



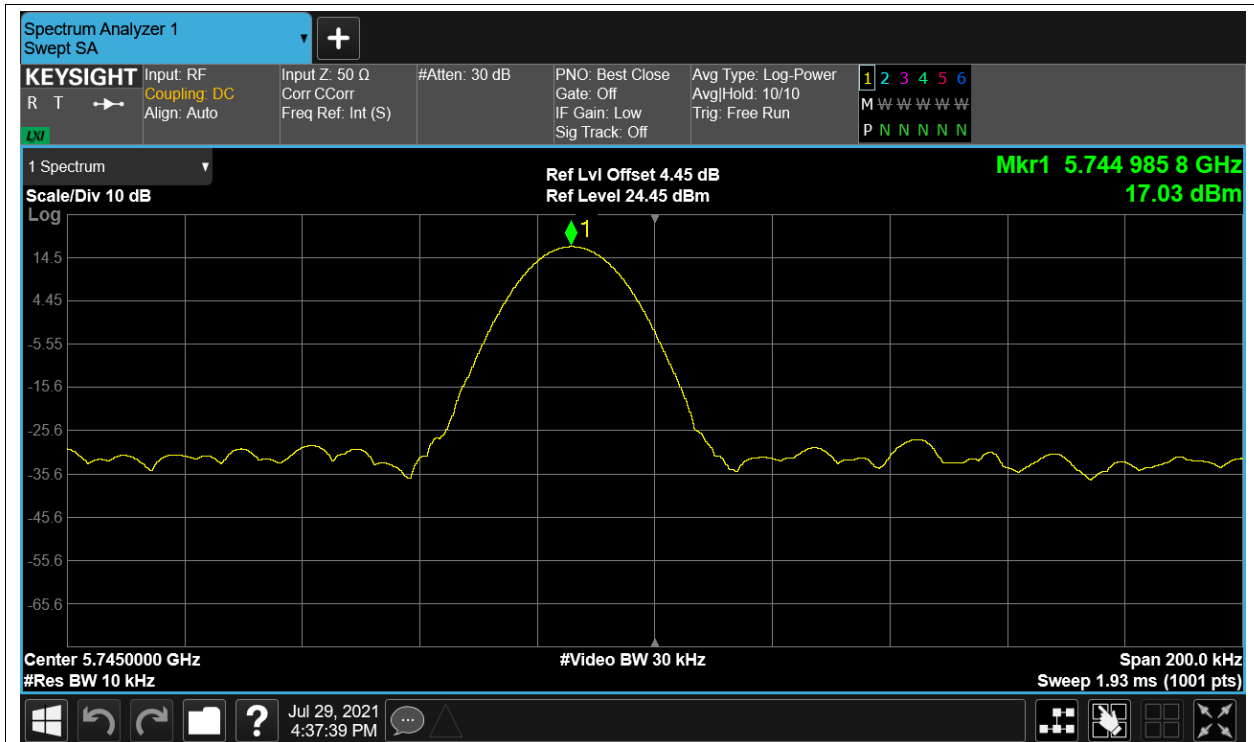
Freq. Stability LVHT a 5745MHz Ant1



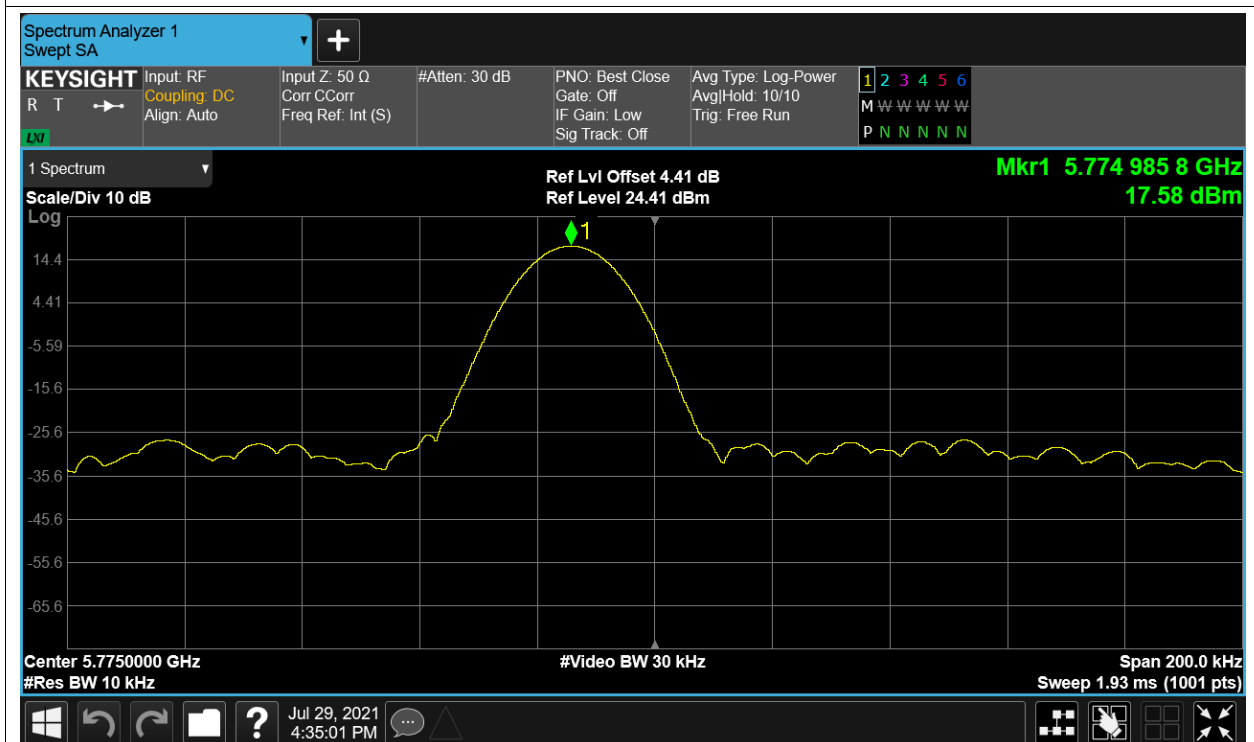
Freq. Stability LVLT a 5745MHz Ant1



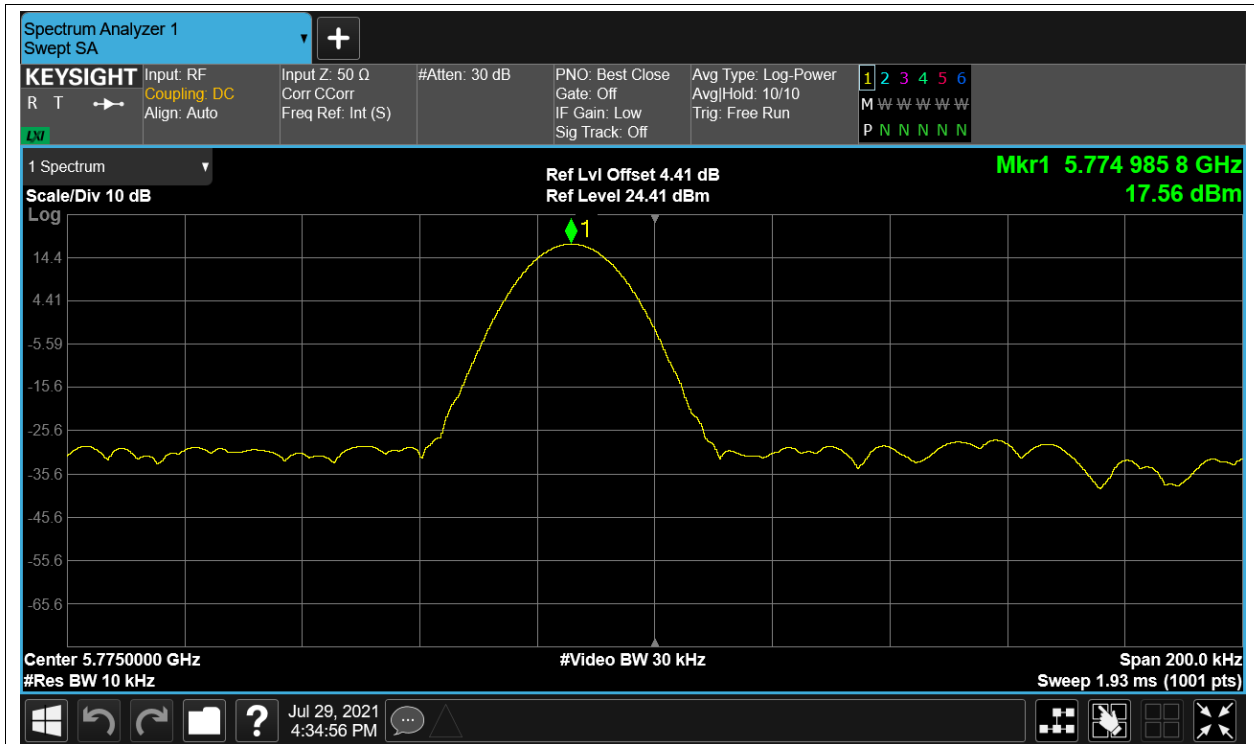
Freq. Stability NVNT a 5745MHz Ant1



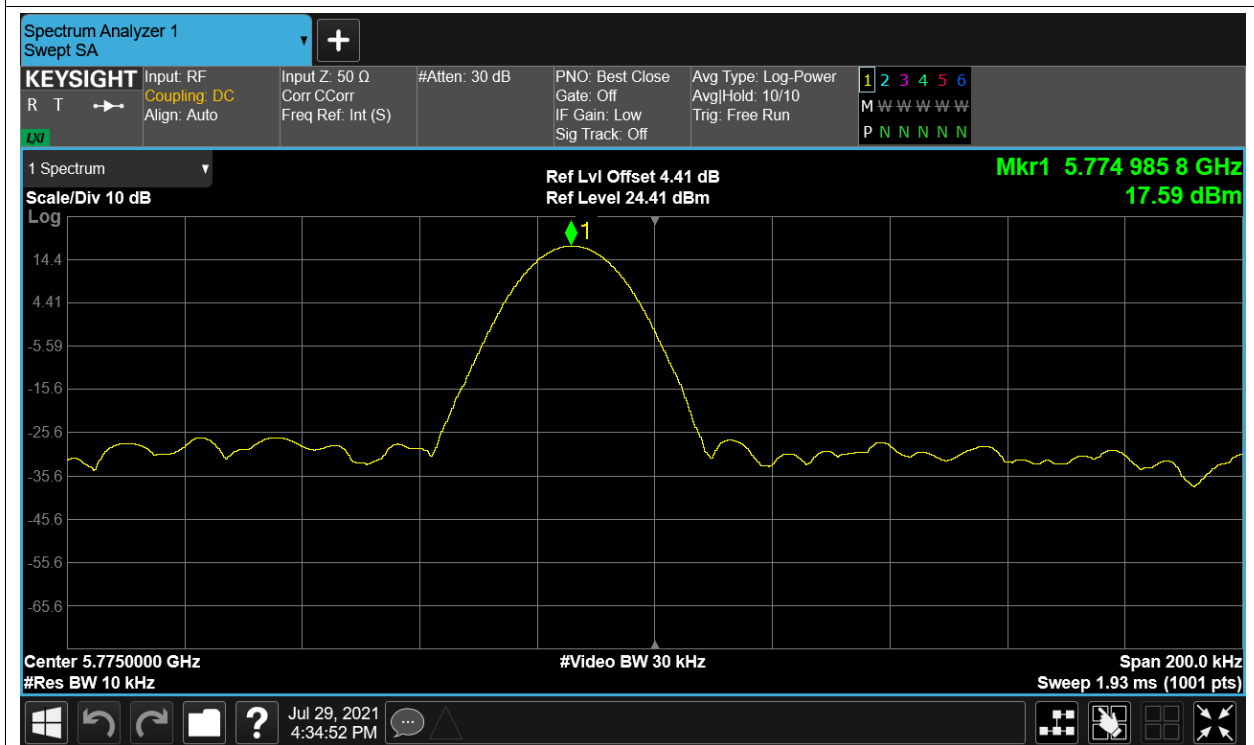
Freq. Stability HVHT ac80 5775MHz Ant1



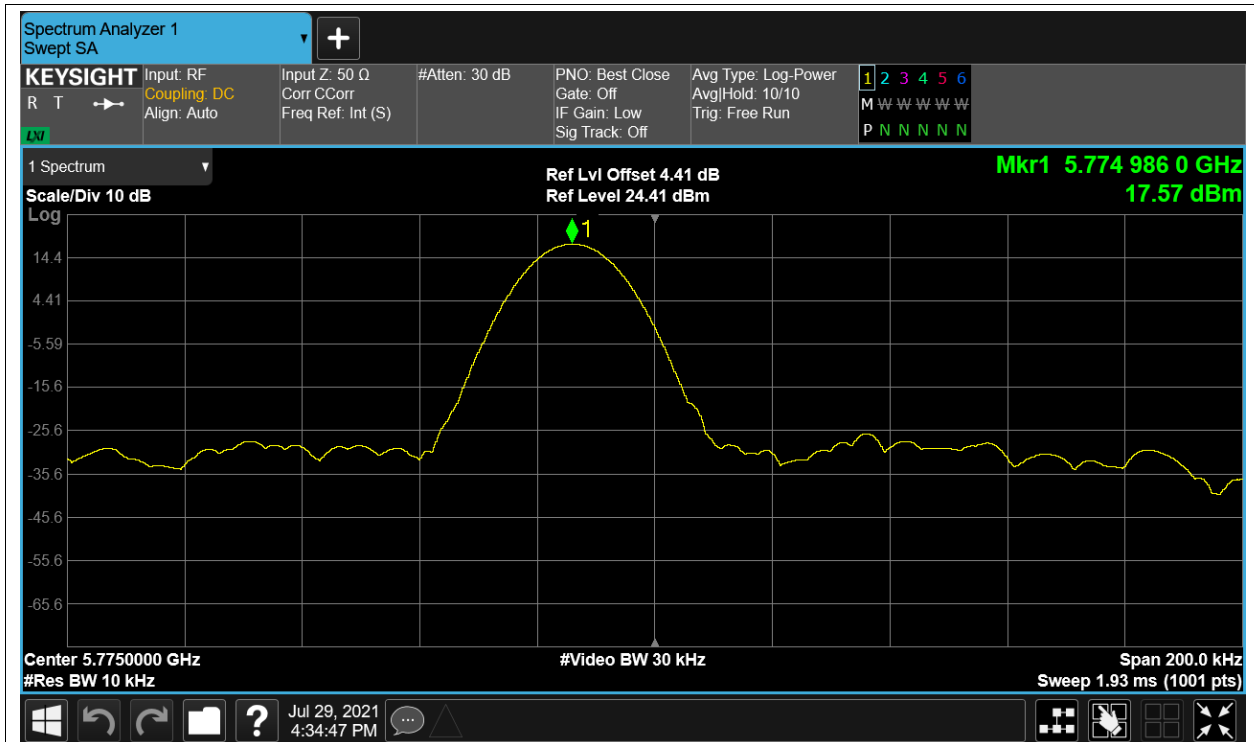
Freq. Stability HVLT ac80 5775MHz Ant1



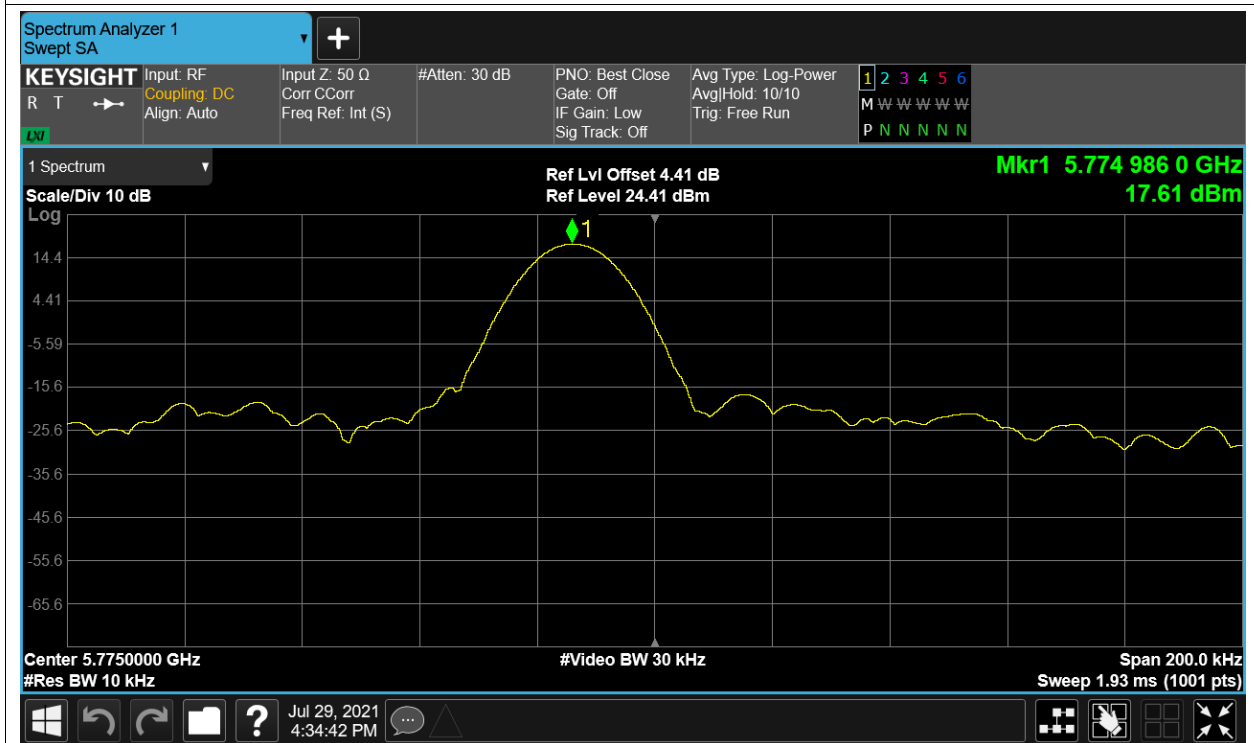
Freq. Stability LVHT ac80 5775MHz Ant1



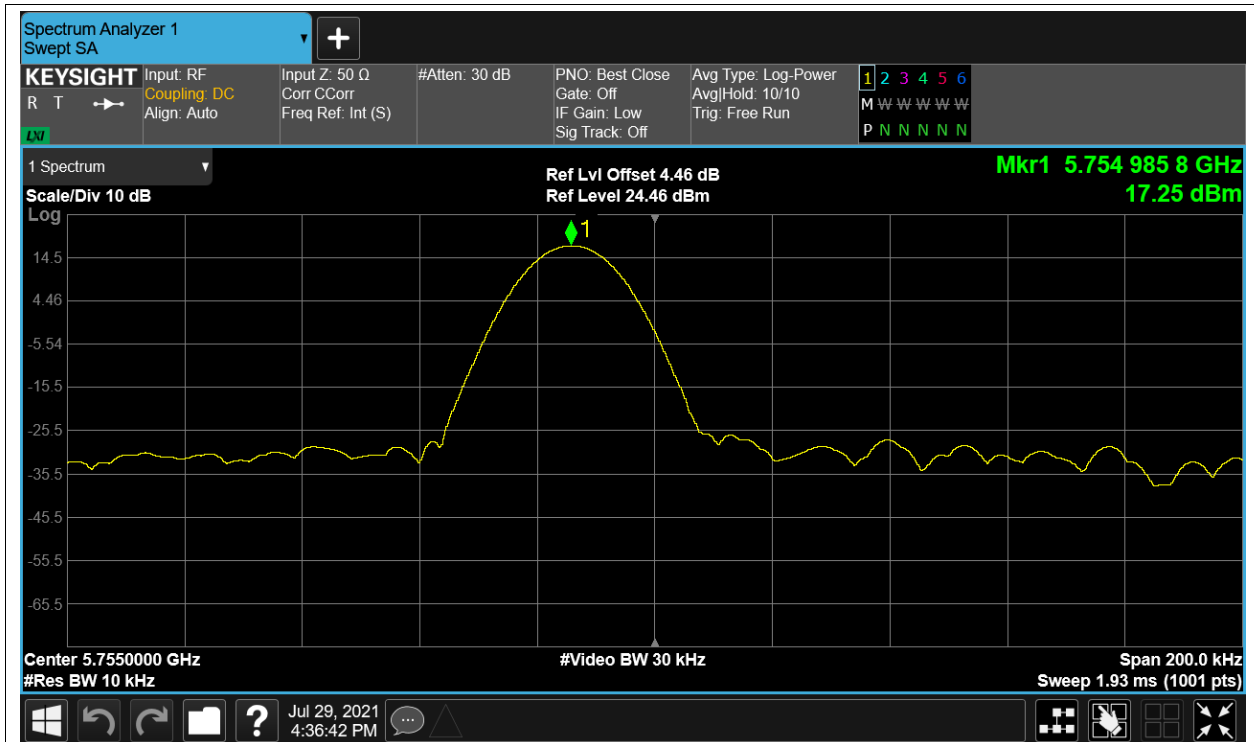
Freq. Stability LVLT ac80 5775MHz Ant1



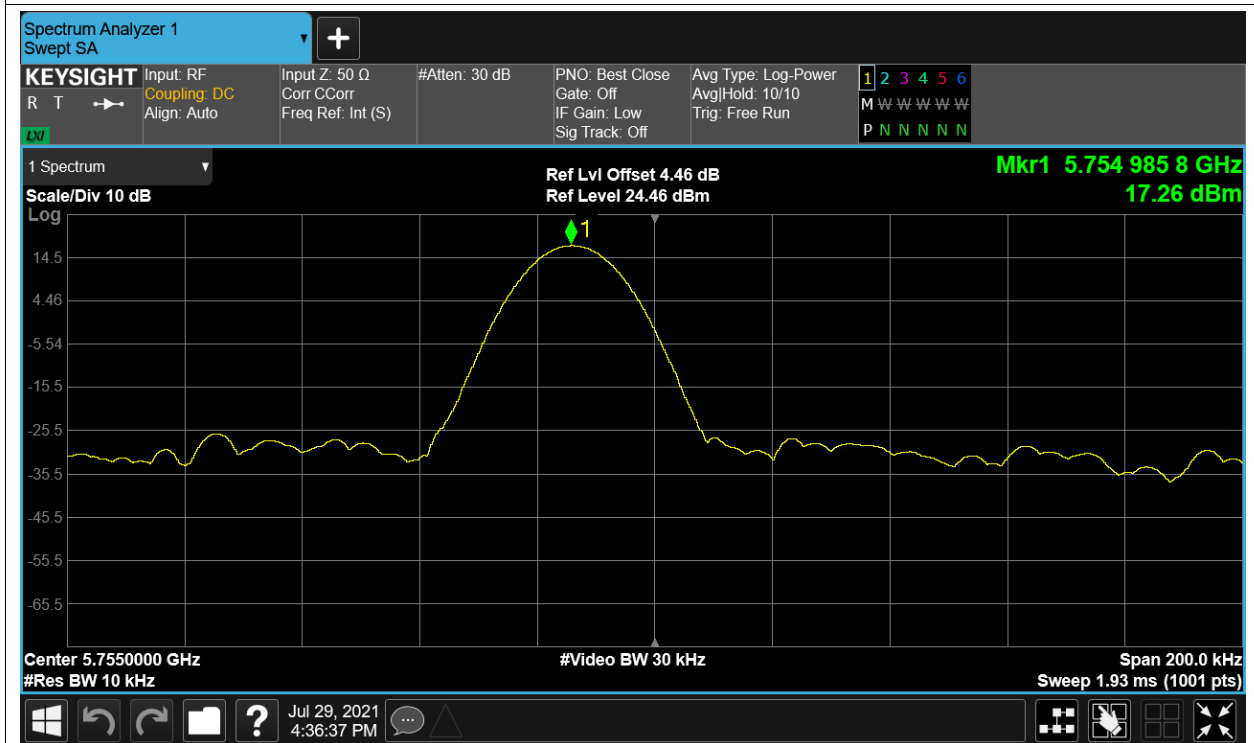
Freq. Stability NVNT ac80 5775MHz Ant1



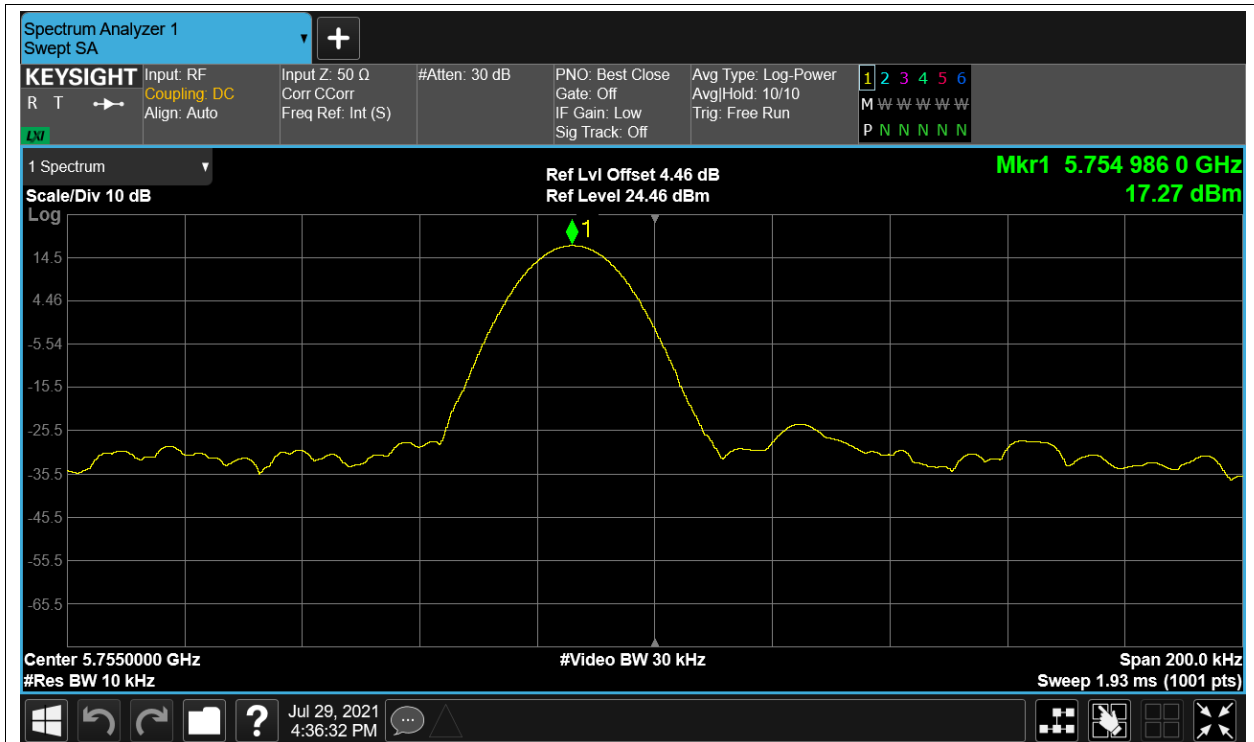
Freq. Stability HVHT n40 5755MHz Ant1



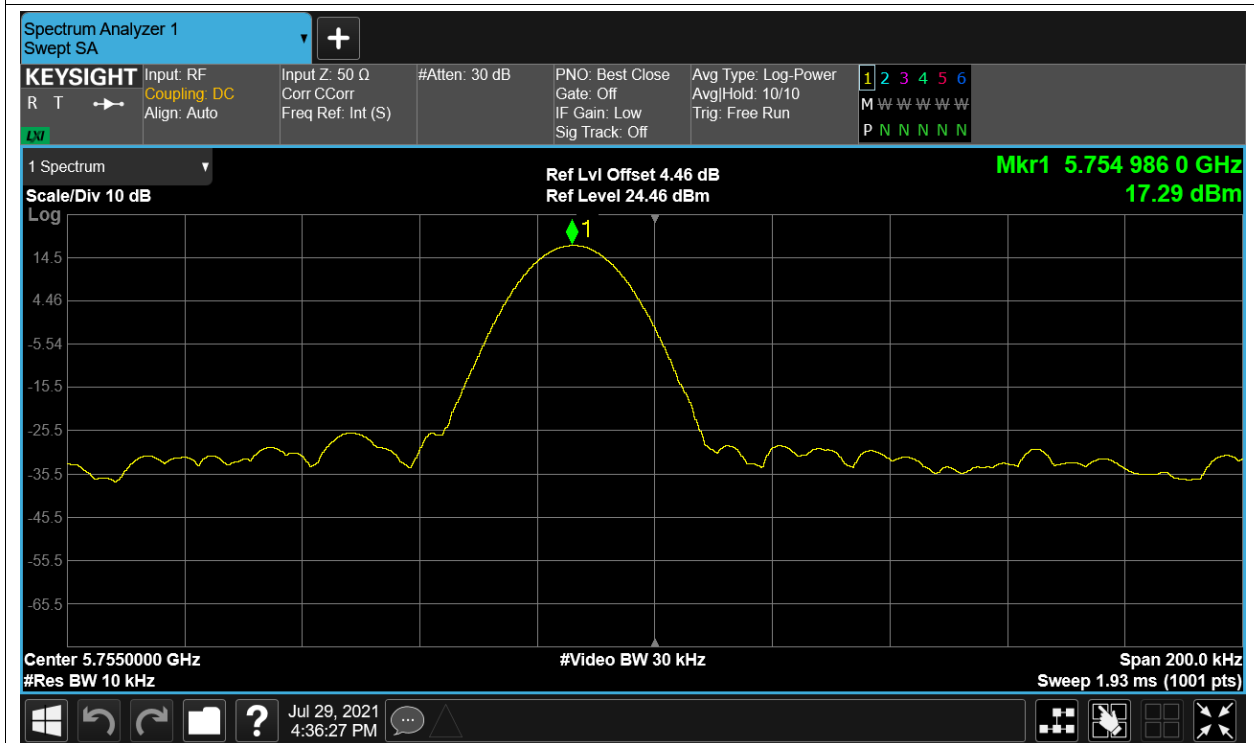
Freq. Stability HVLt n40 5755MHz Ant1



Freq. Stability LVHT n40 5755MHz Ant1

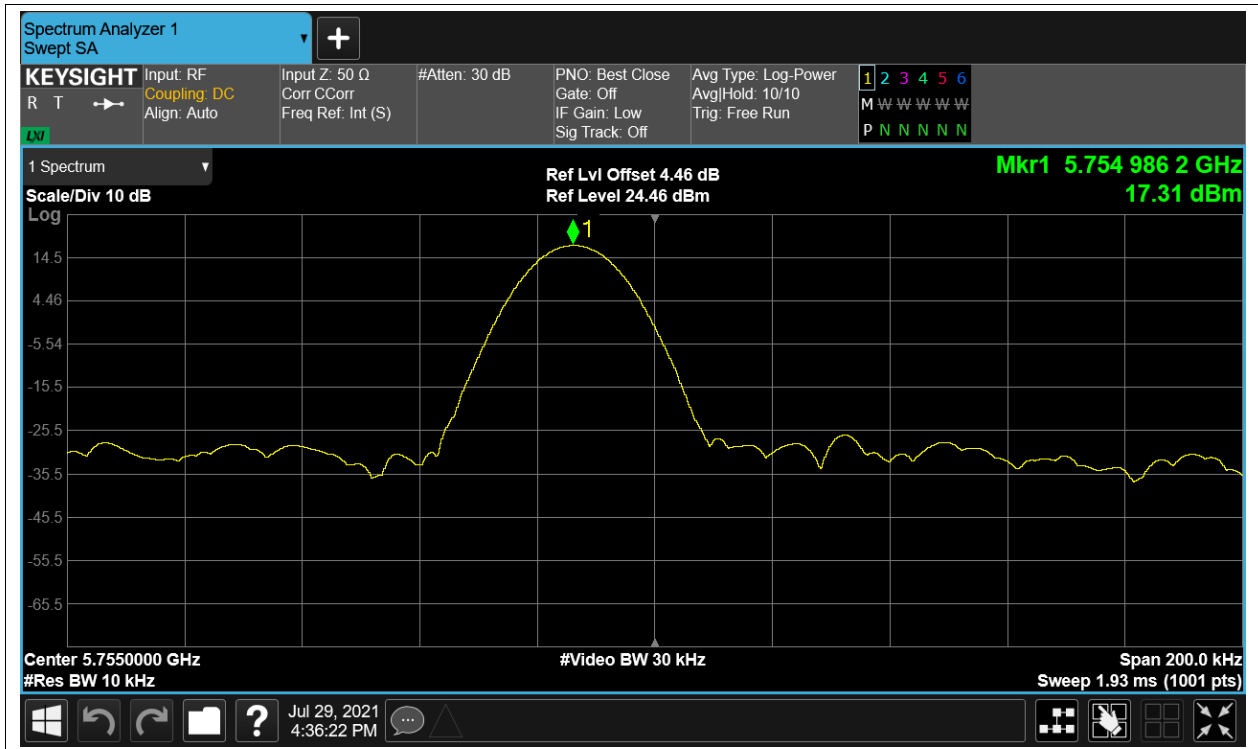


Freq. Stability LVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1



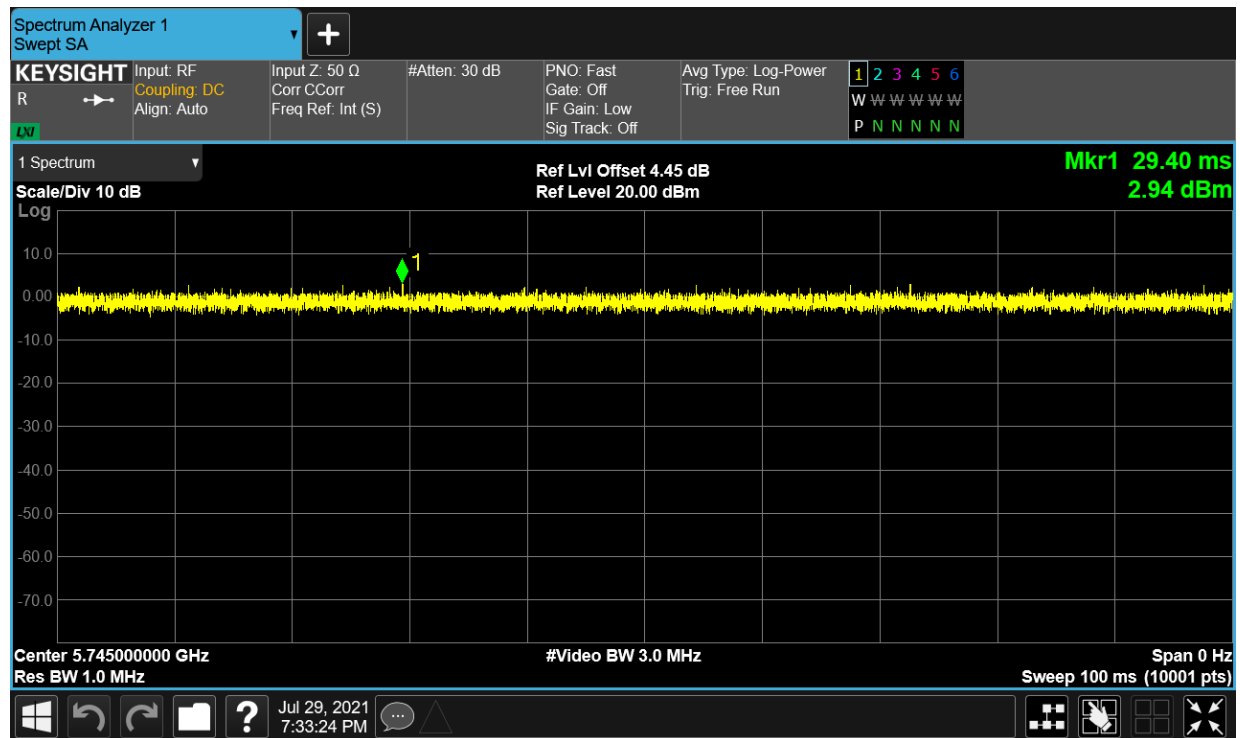


## Duty Cycle

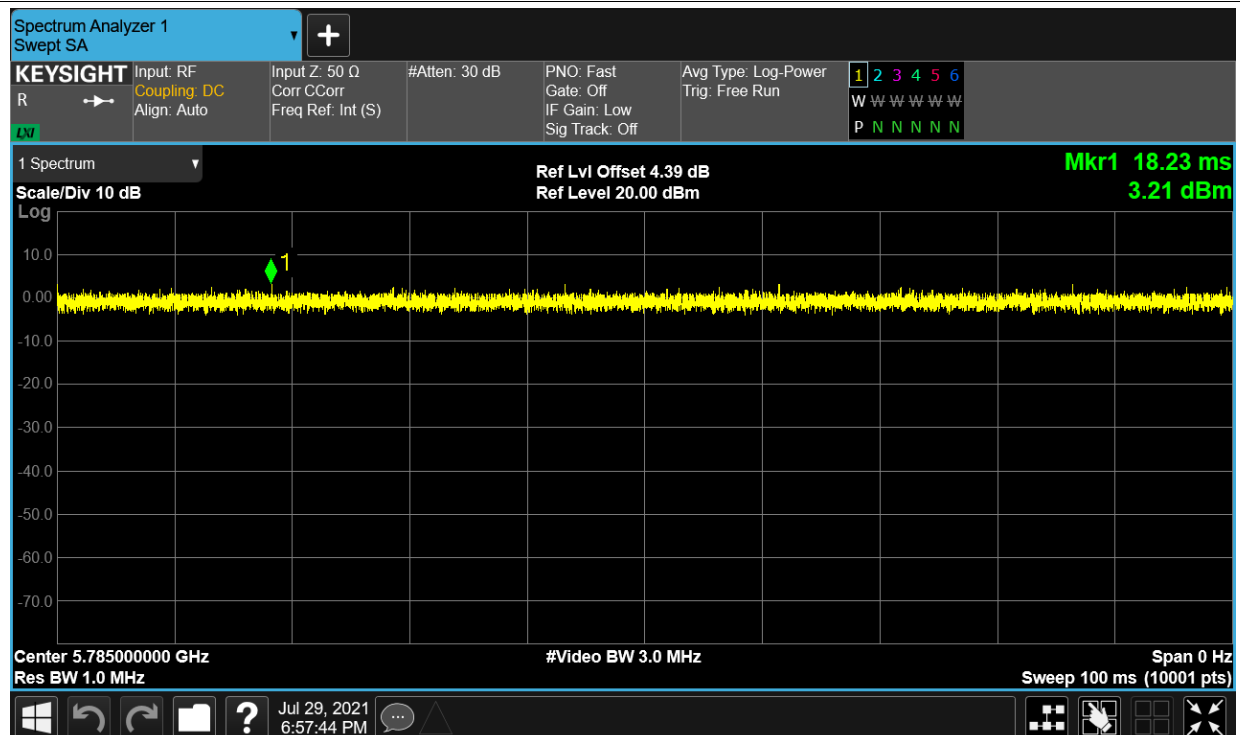
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | a    | 5745            | Ant1    | 100            | 0                      |
| NVNT      | a    | 5785            | Ant1    | 100            | 0                      |
| NVNT      | a    | 5825            | Ant1    | 100            | 0                      |
| NVNT      | ac20 | 5745            | Ant1    | 100            | 0                      |
| NVNT      | ac20 | 5785            | Ant1    | 100            | 0                      |
| NVNT      | ac20 | 5825            | Ant1    | 100            | 0                      |
| NVNT      | ac40 | 5755            | Ant1    | 100            | 0                      |
| NVNT      | ac40 | 5795            | Ant1    | 100            | 0                      |
| NVNT      | ac80 | 5775            | Ant1    | 100            | 0                      |
| NVNT      | n20  | 5745            | Ant1    | 100            | 0                      |
| NVNT      | n20  | 5785            | Ant1    | 100            | 0                      |
| NVNT      | n20  | 5825            | Ant1    | 100            | 0                      |
| NVNT      | n40  | 5755            | Ant1    | 100            | 0                      |
| NVNT      | n40  | 5795            | Ant1    | 100            | 0                      |

## Test Graphs

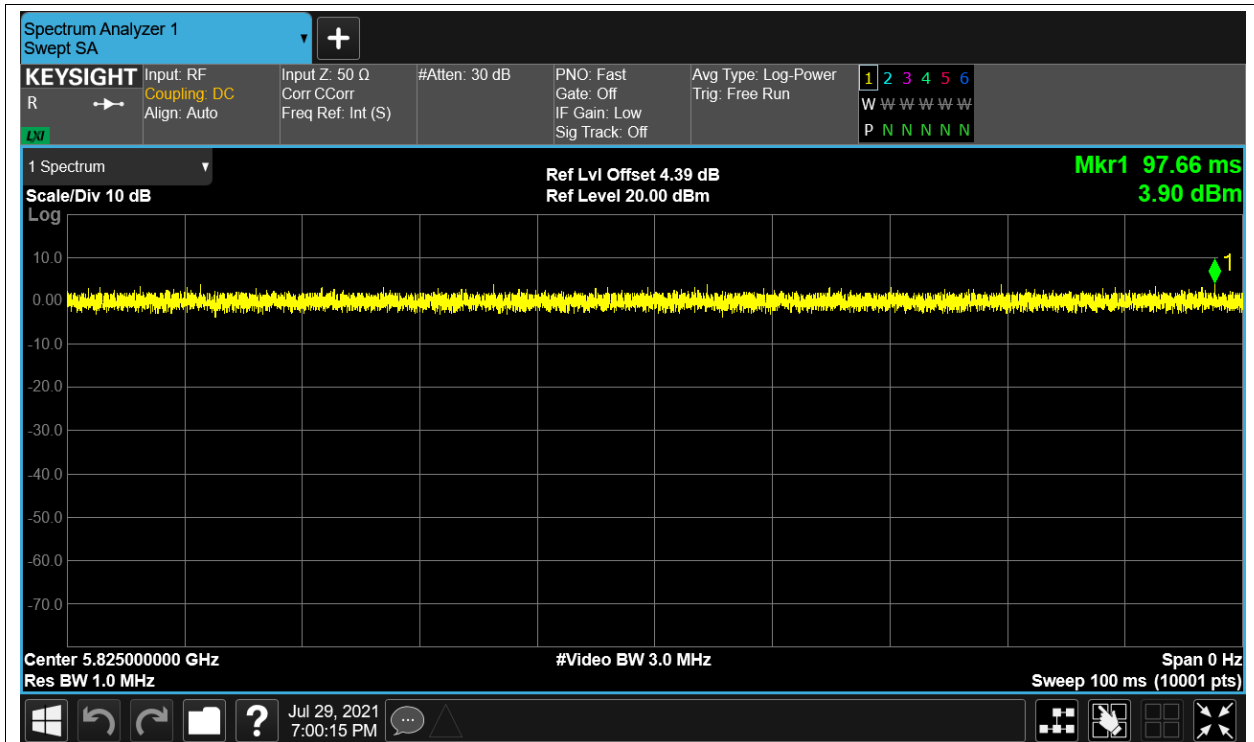
## Duty Cycle NVNT a 5745MHz Ant1



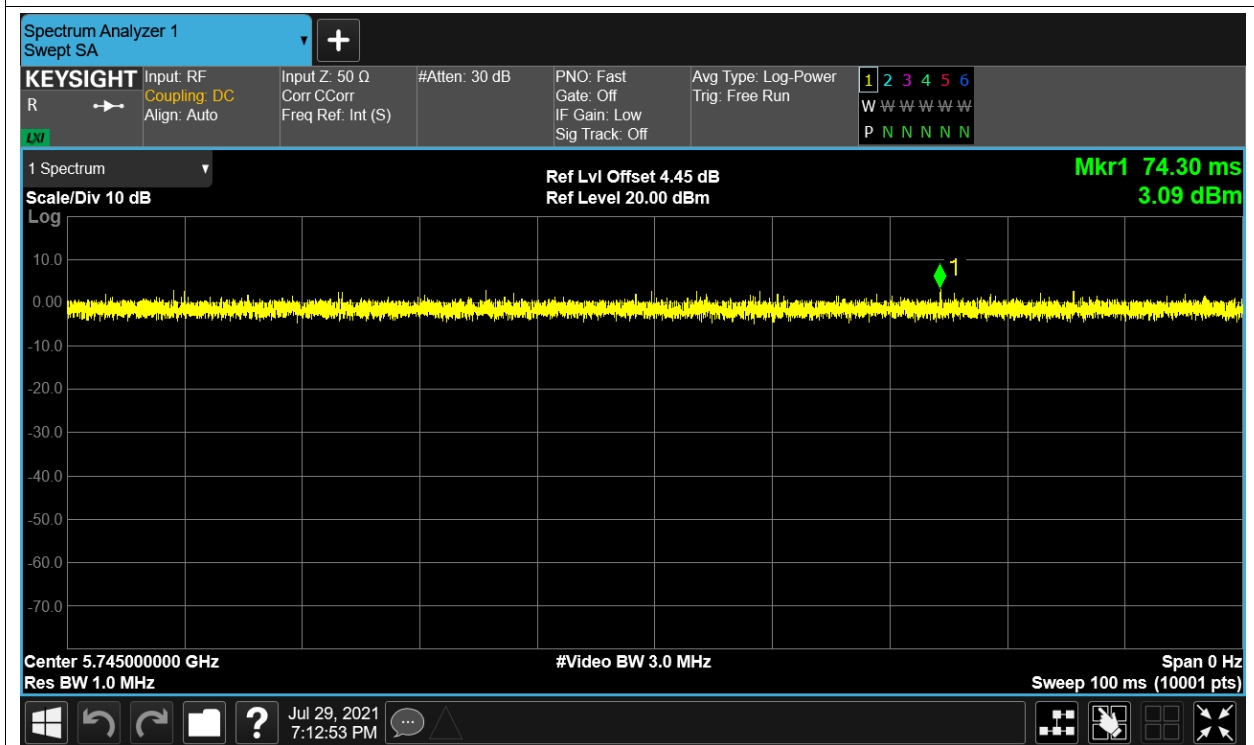
## Duty Cycle NVNT a 5785MHz Ant1



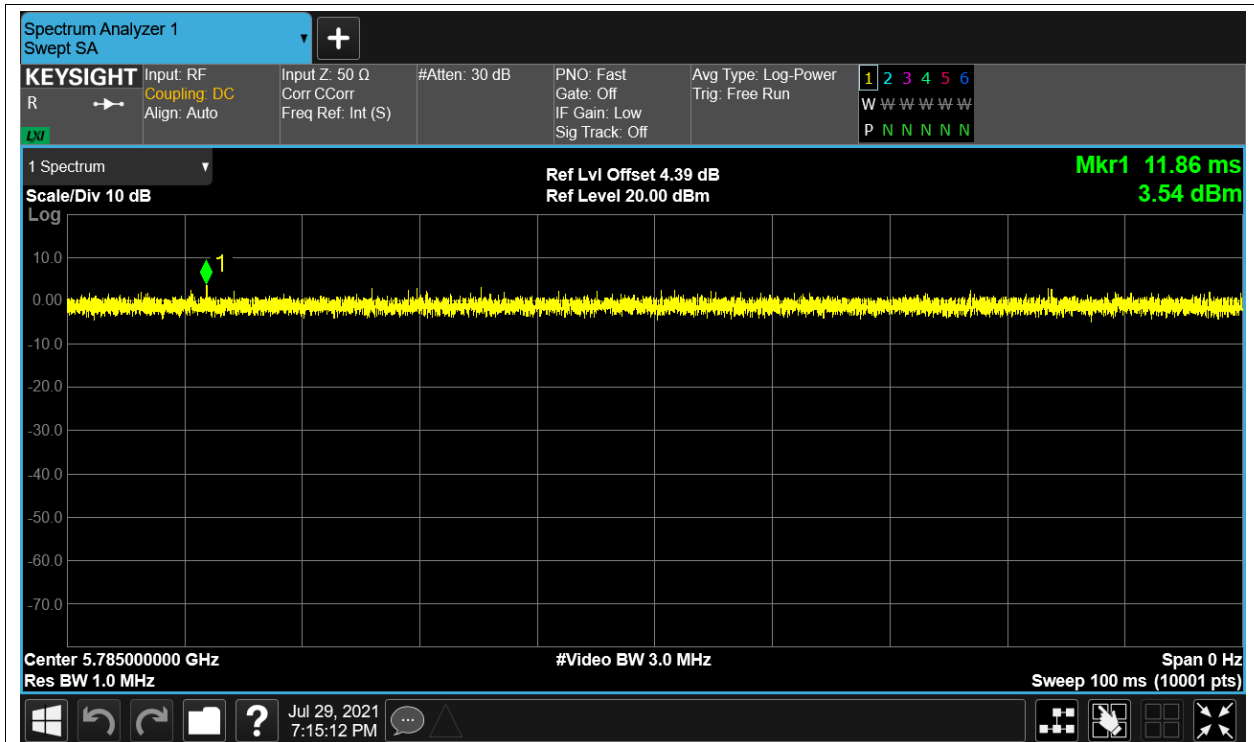
## Duty Cycle NVNT a 5825MHz Ant1



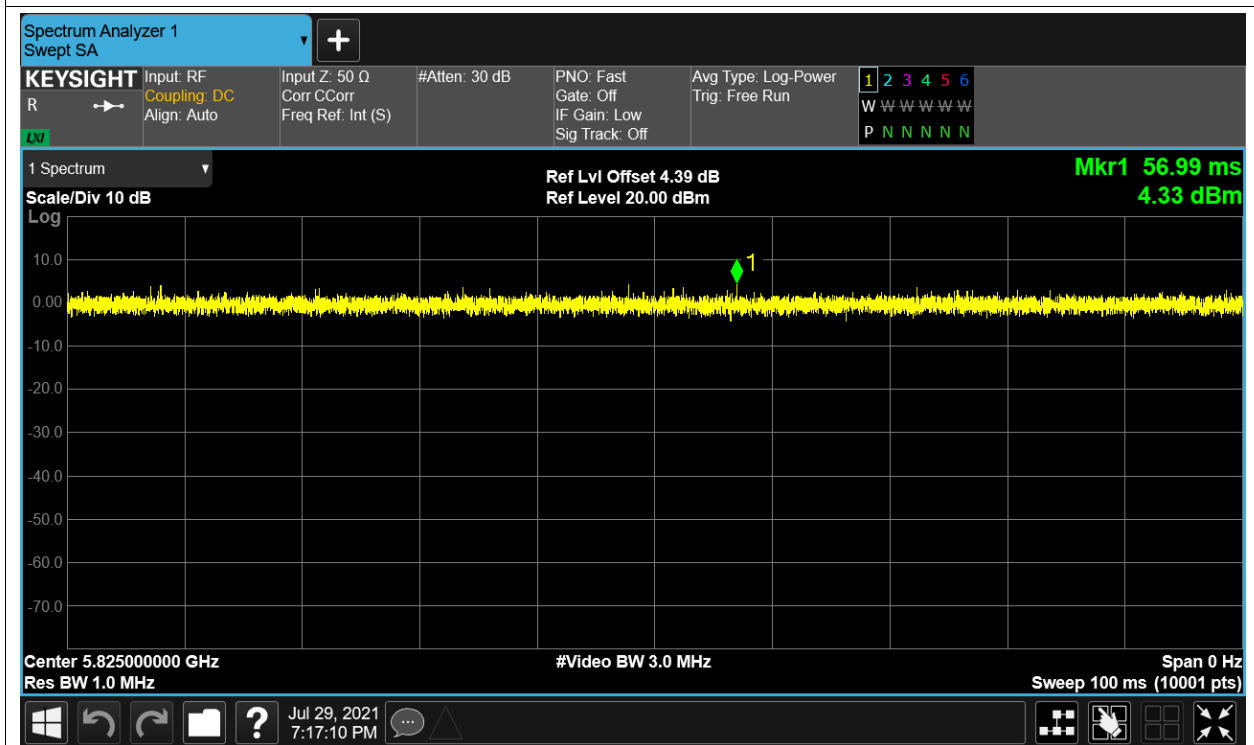
Duty Cycle NVNT ac20 5745MHz Ant1



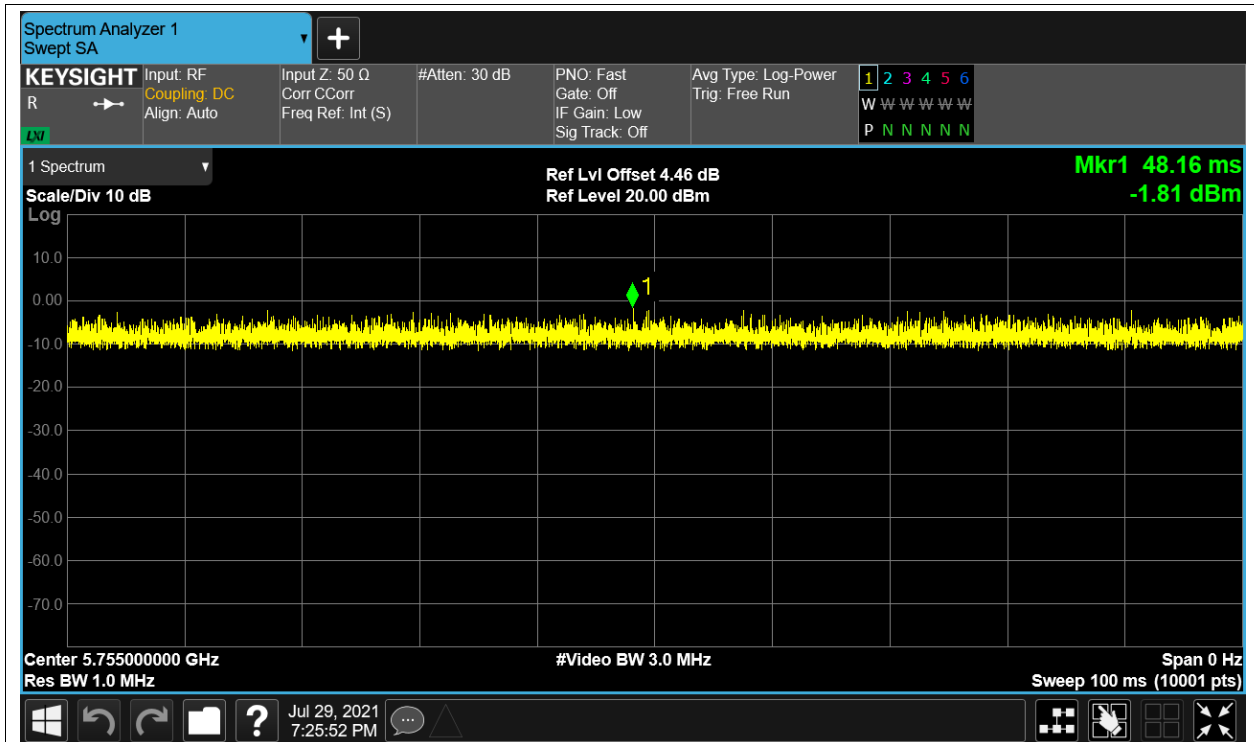
Duty Cycle NVNT ac20 5785MHz Ant1



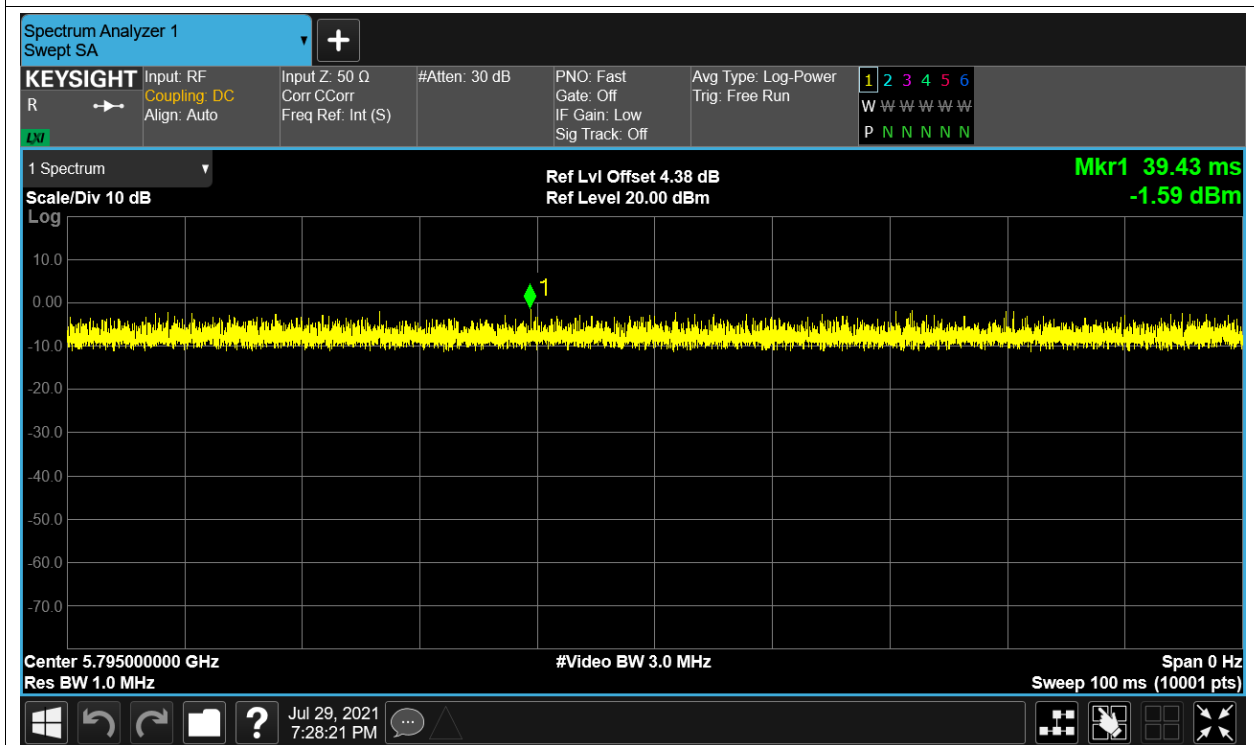
Duty Cycle NVNT ac20 5825MHz Ant1



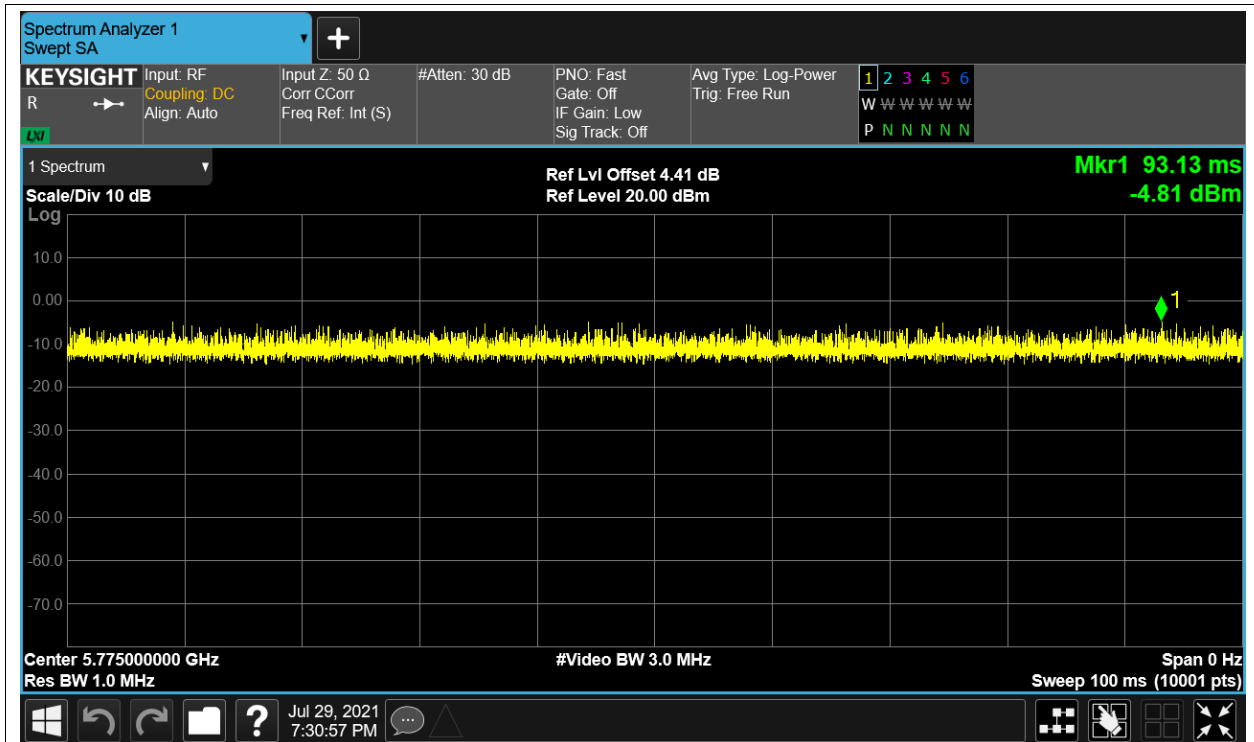
Duty Cycle NVNT ac40 5755MHz Ant1



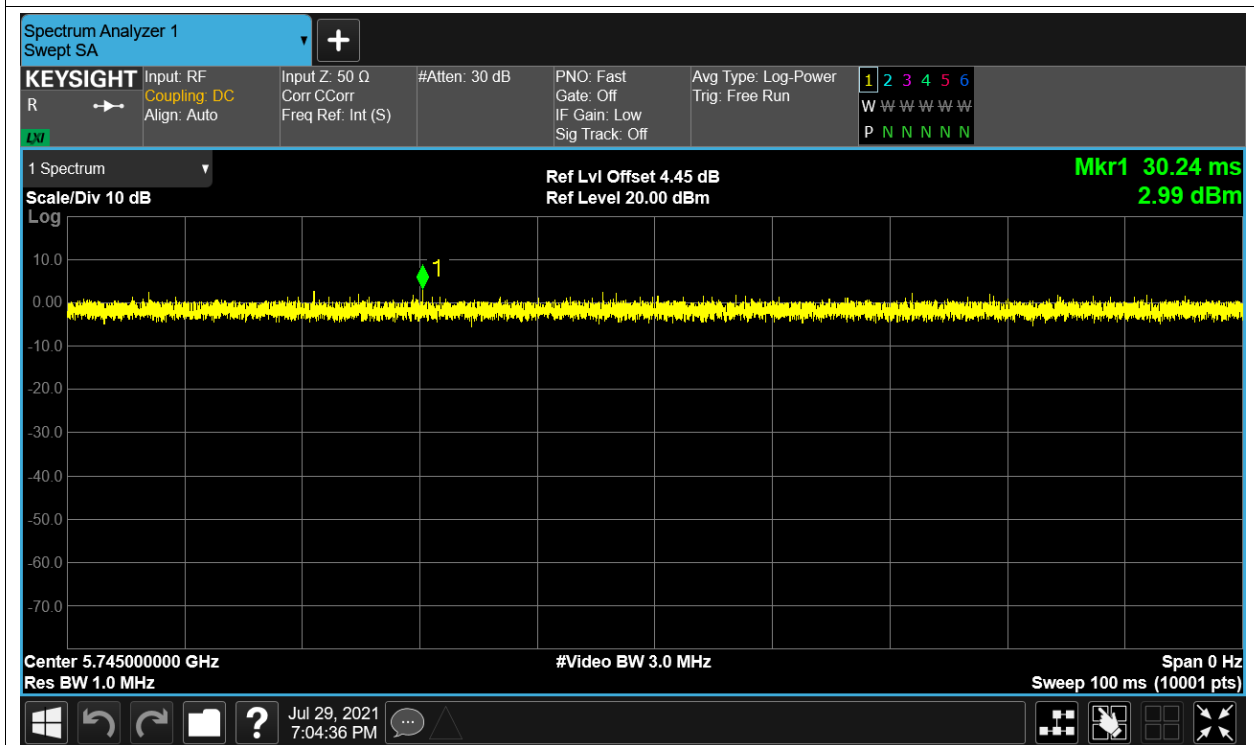
Duty Cycle NVNT ac40 5795MHz Ant1



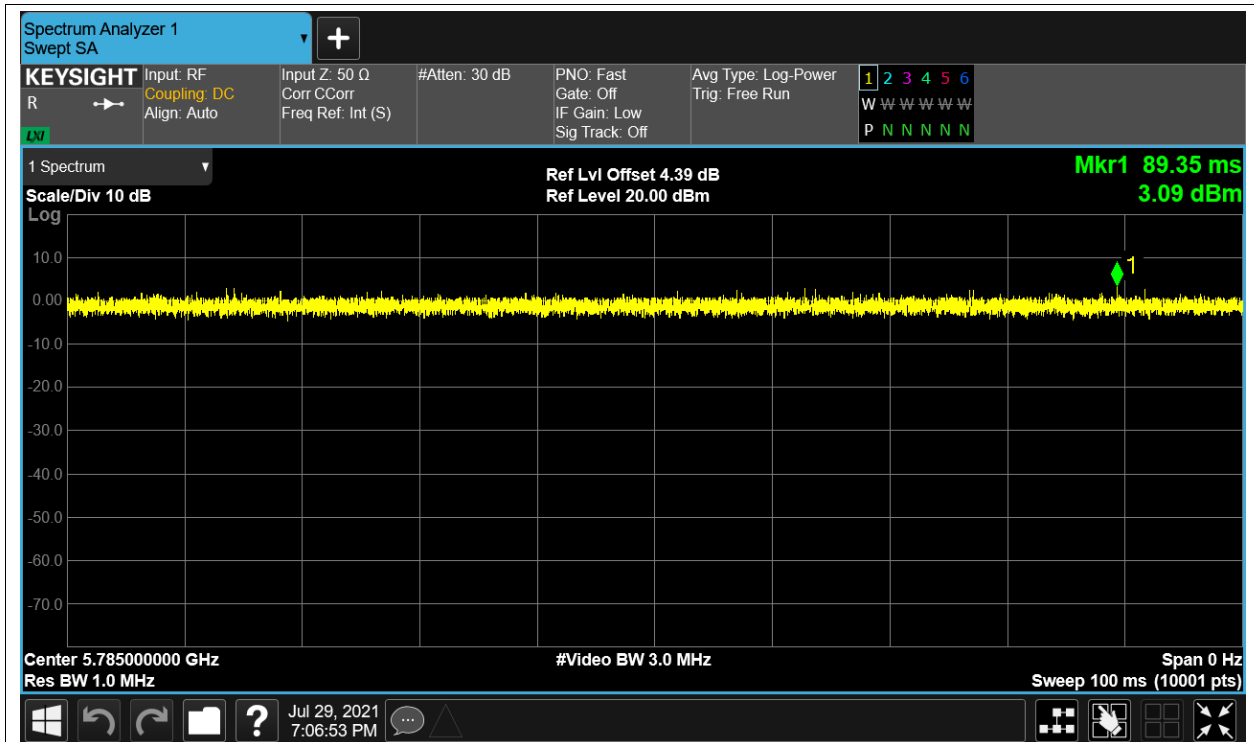
Duty Cycle NVNT ac80 5775MHz Ant1



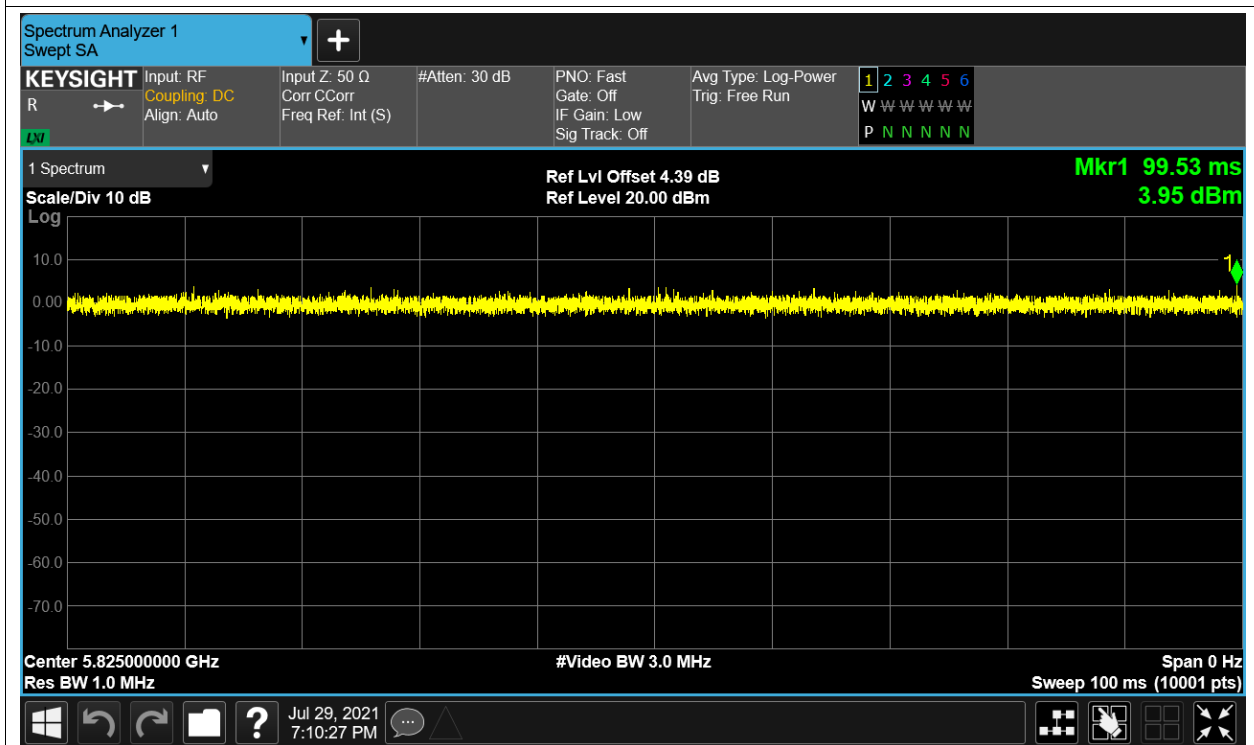
Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1

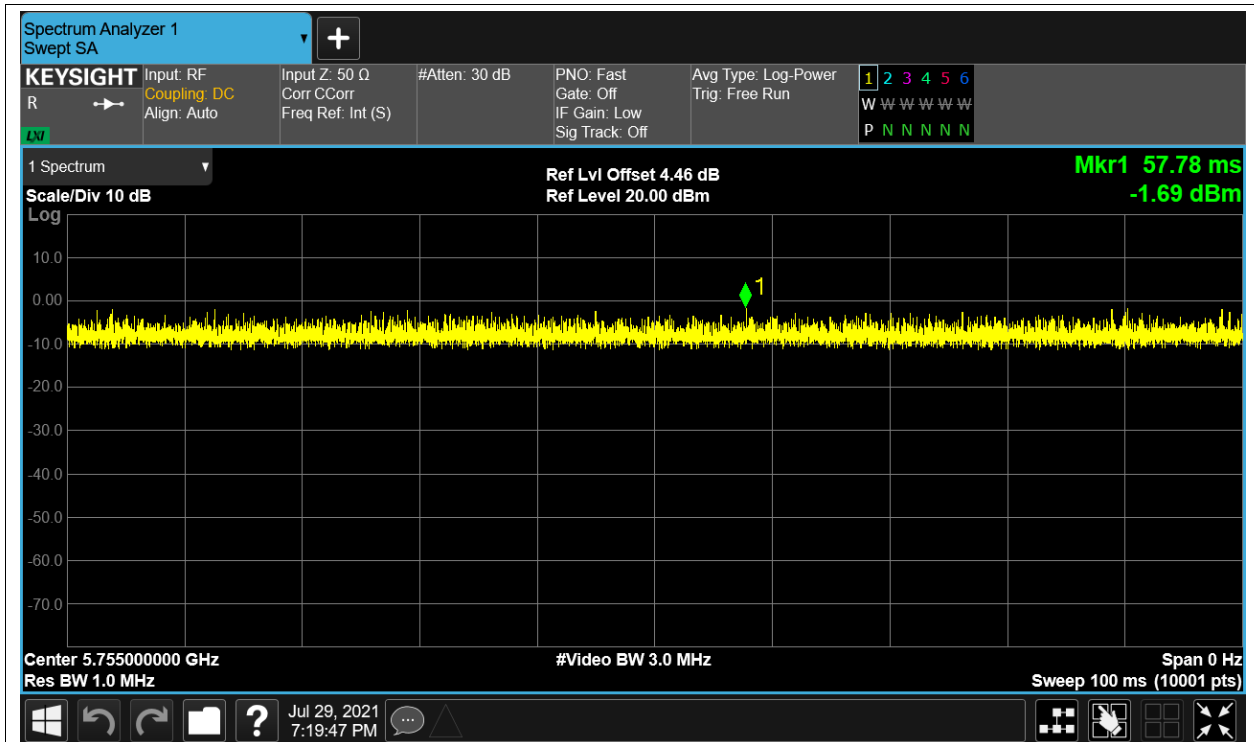


Duty Cycle NVNT n20 5825MHz Ant1

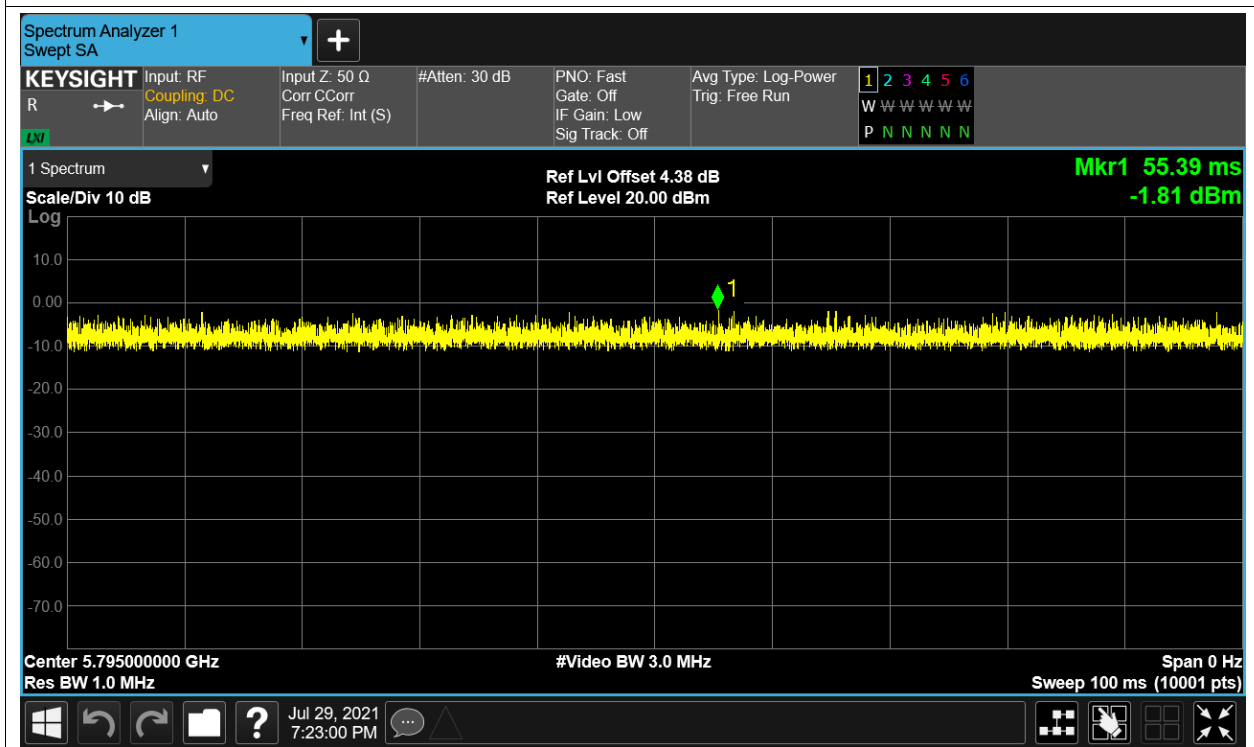


Duty Cycle NVNT n40 5755MHz Ant1





Duty Cycle NVNT n40 5795MHz Ant1



## Maximum Conducted Output Power

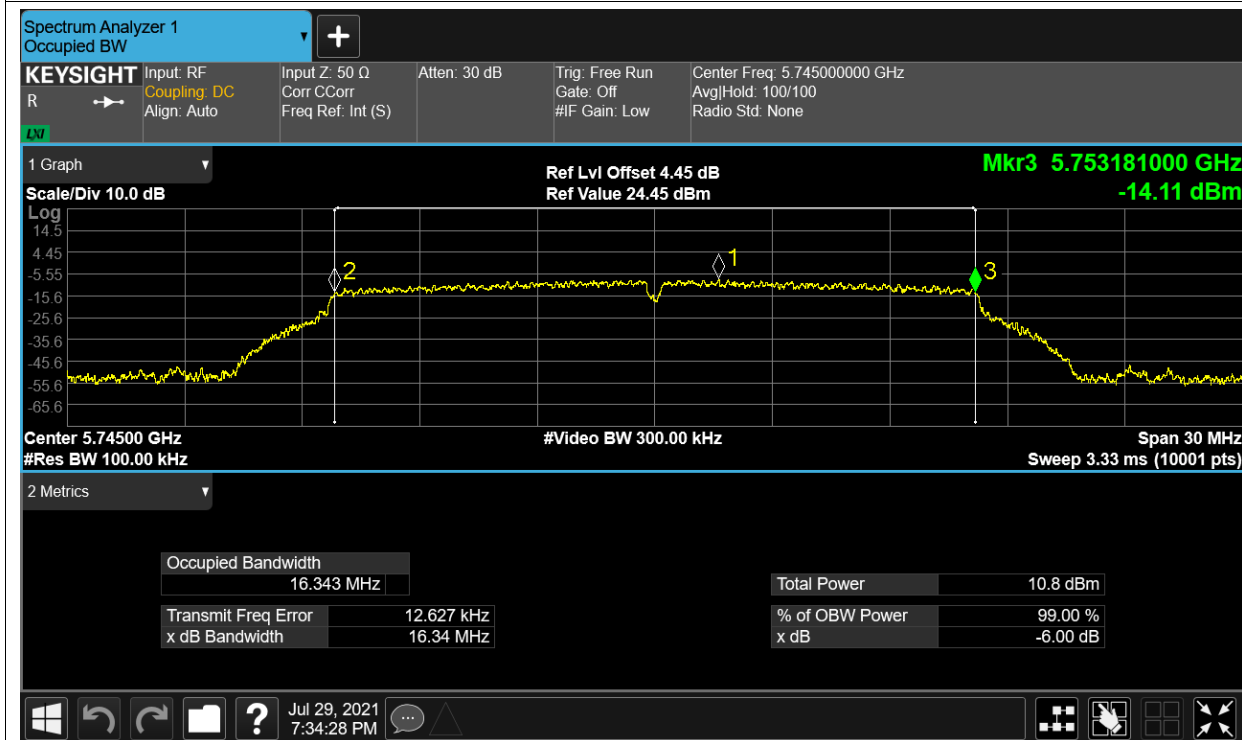
| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Duty Factor<br>(dB) | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|------|--------------------|---------|--------------------------|---------------------|----------------------|----------------|---------|
| NVNT      | a    | 5745               | Ant1    | 5.12                     | 0                   | 5.12                 | 30             | Pass    |
| NVNT      | a    | 5785               | Ant1    | 6.15                     | 0                   | 6.15                 | 30             | Pass    |
| NVNT      | a    | 5825               | Ant1    | 6.89                     | 0                   | 6.89                 | 30             | Pass    |
| NVNT      | ac20 | 5745               | Ant1    | 4.94                     | 0                   | 4.94                 | 30             | Pass    |
| NVNT      | ac20 | 5785               | Ant1    | 6.05                     | 0                   | 6.05                 | 30             | Pass    |
| NVNT      | ac20 | 5825               | Ant1    | 6.76                     | 0                   | 6.76                 | 30             | Pass    |
| NVNT      | ac40 | 5755               | Ant1    | 5.3                      | 0                   | 5.3                  | 30             | Pass    |
| NVNT      | ac40 | 5795               | Ant1    | 5.81                     | 0                   | 5.81                 | 30             | Pass    |
| NVNT      | ac80 | 5775               | Ant1    | 5.67                     | 0                   | 5.67                 | 30             | Pass    |
| NVNT      | n20  | 5745               | Ant1    | 4.72                     | 0                   | 4.72                 | 30             | Pass    |
| NVNT      | n20  | 5785               | Ant1    | 6.04                     | 0                   | 6.04                 | 30             | Pass    |
| NVNT      | n20  | 5825               | Ant1    | 6.79                     | 0                   | 6.79                 | 30             | Pass    |
| NVNT      | n40  | 5755               | Ant1    | 5.33                     | 0                   | 5.33                 | 30             | Pass    |
| NVNT      | n40  | 5795               | Ant1    | 5.81                     | 0                   | 5.81                 | 30             | Pass    |

## -6dB Bandwidth

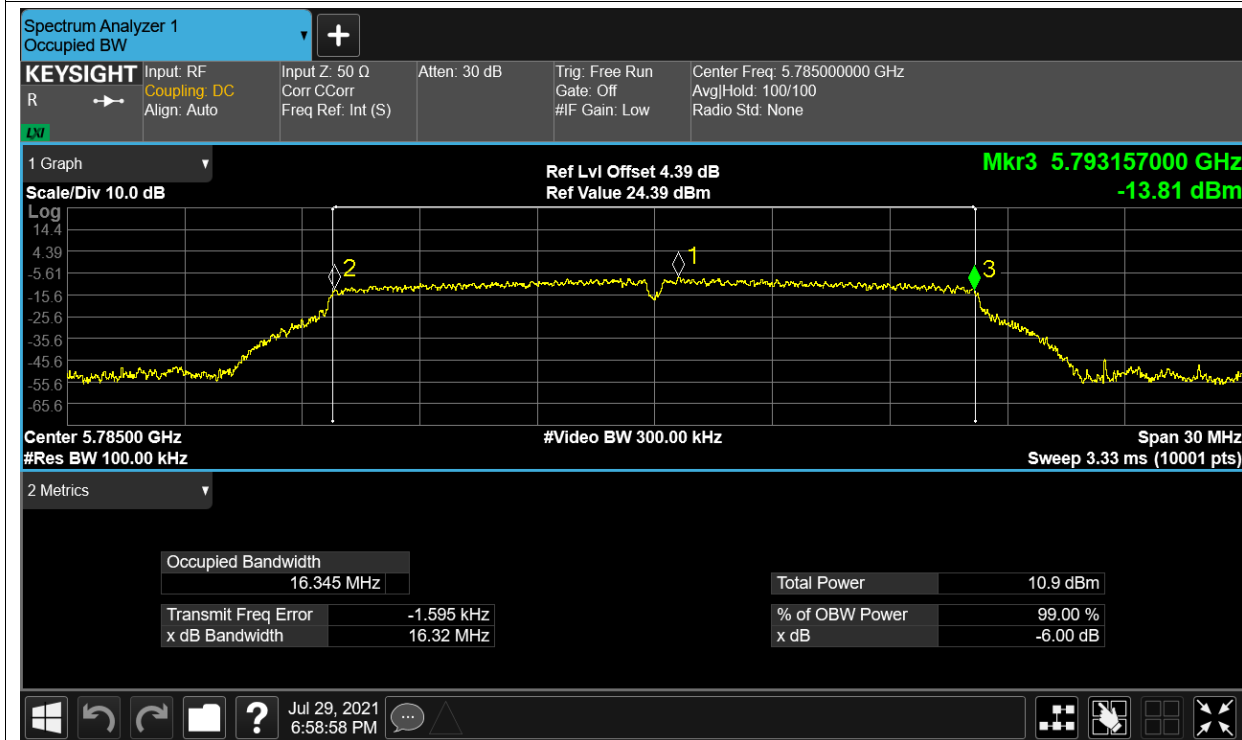
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 16.338                | 0.5                         | Pass    |
| NVNT      | a    | 5785            | Ant1    | 16.317                | 0.5                         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 16.331                | 0.5                         | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 17.571                | 0.5                         | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 17.578                | 0.5                         | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 17.572                | 0.5                         | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 35.952                | 0.5                         | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 36.03                 | 0.5                         | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 75.478                | 0.5                         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 17.561                | 0.5                         | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 17.567                | 0.5                         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 17.571                | 0.5                         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 36.05                 | 0.5                         | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 36.111                | 0.5                         | Pass    |

## Test Graphs

## -6dB Bandwidth NVNT a 5745MHz Ant1



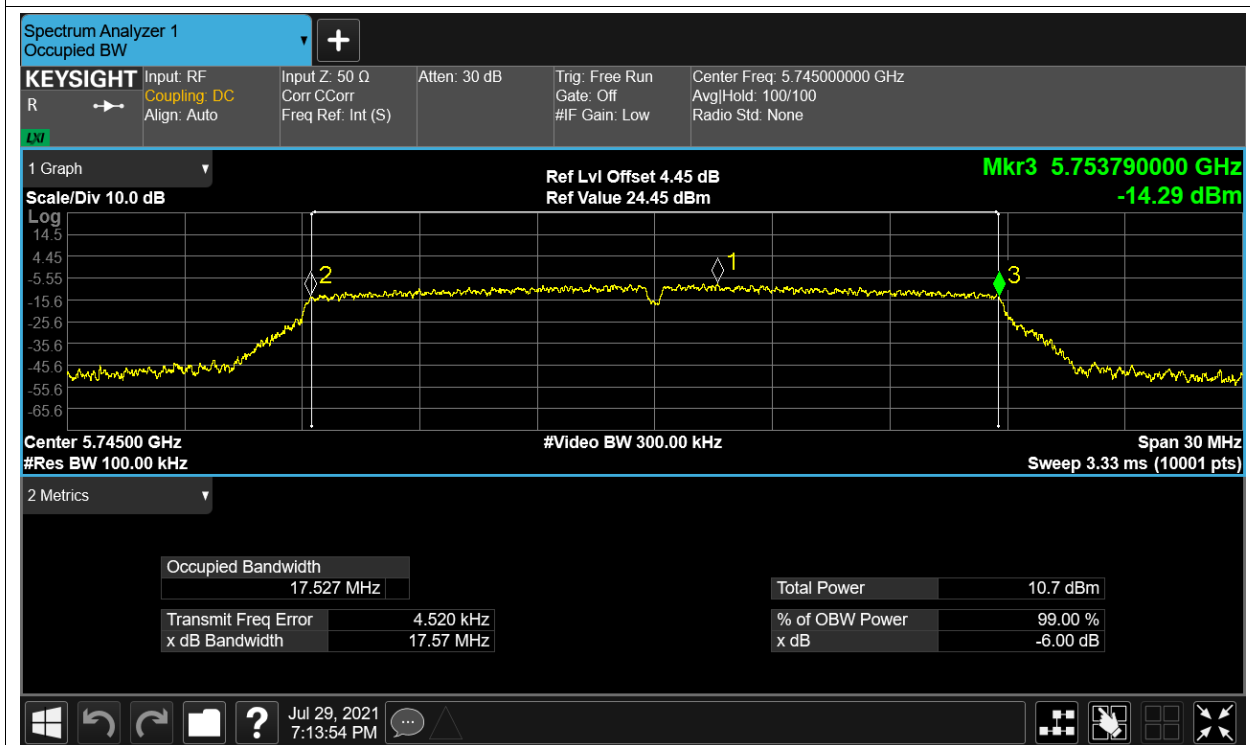
## -6dB Bandwidth NVNT a 5785MHz Ant1



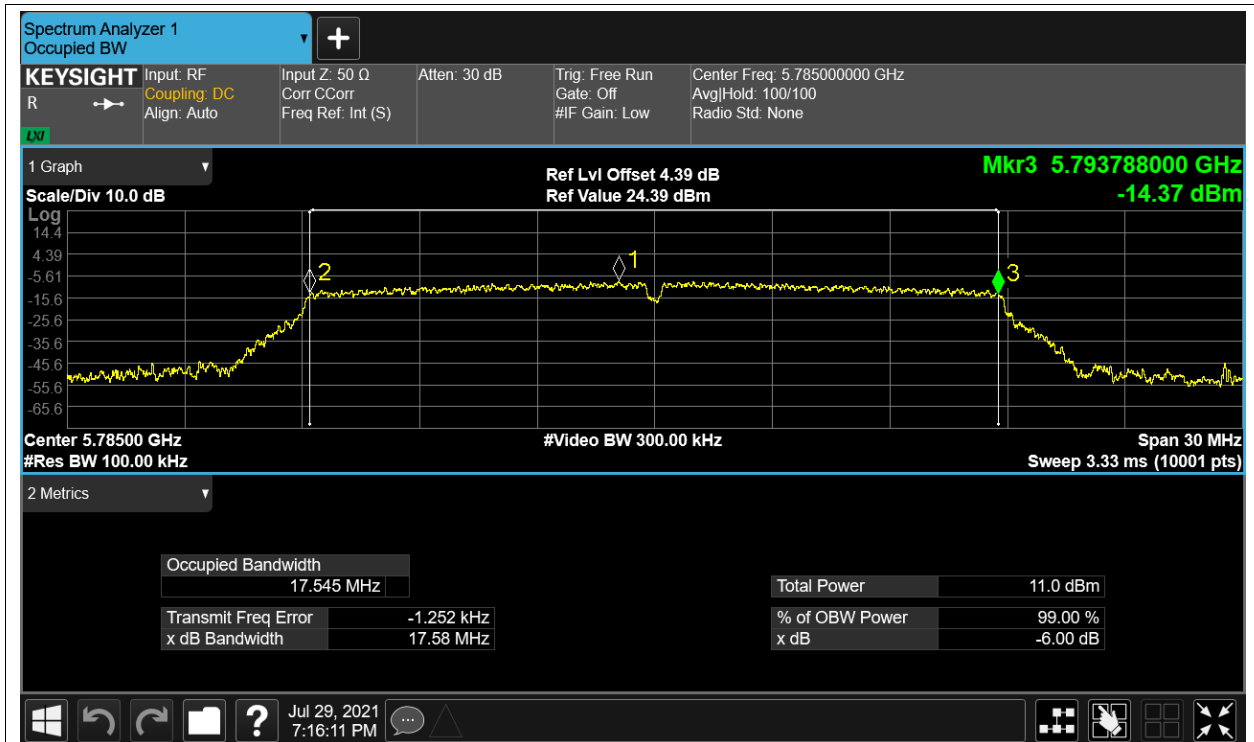
## -6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



-6dB Bandwidth NVNT ac20 5825MHz Ant1



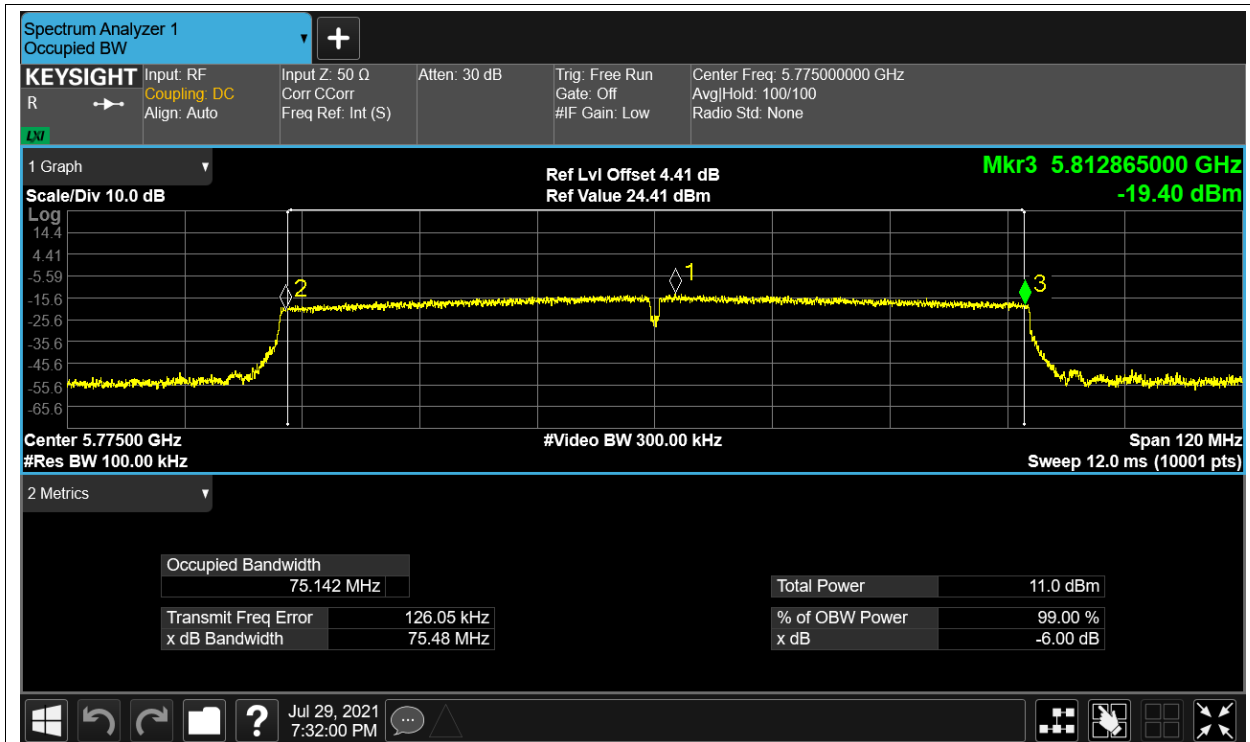
-6dB Bandwidth NVNT ac40 5755MHz Ant1



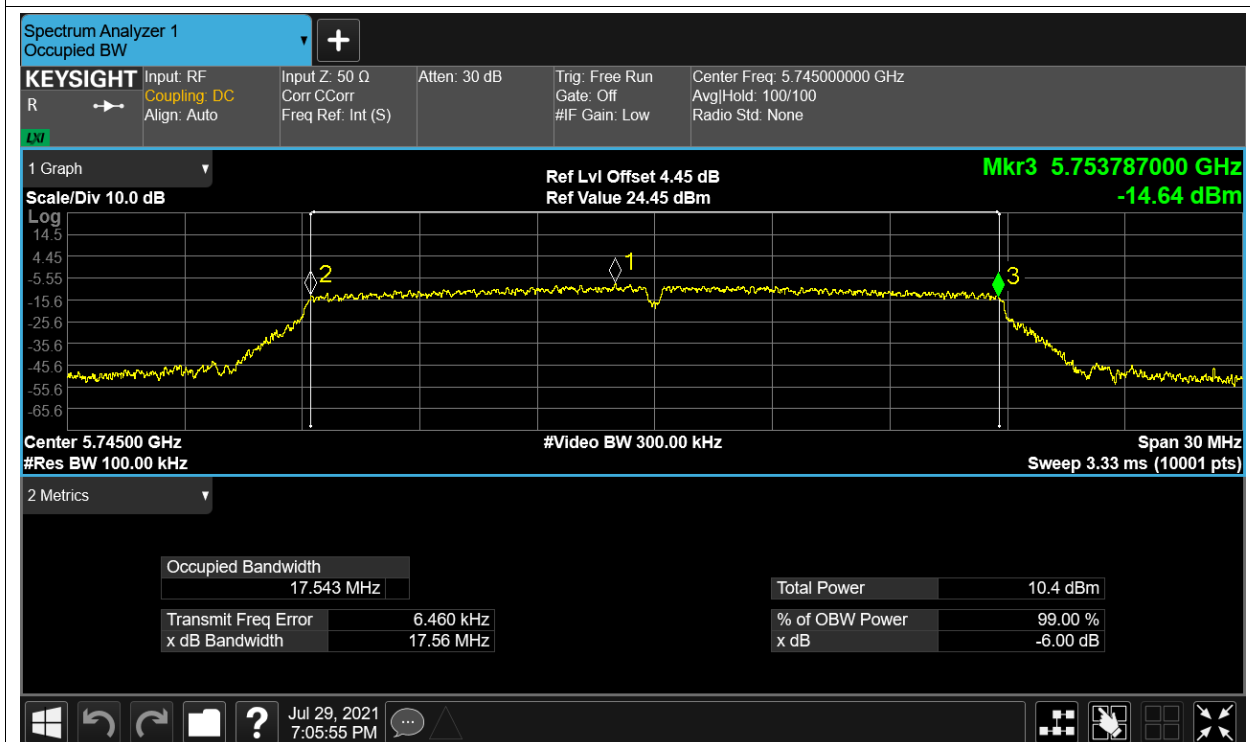
-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1

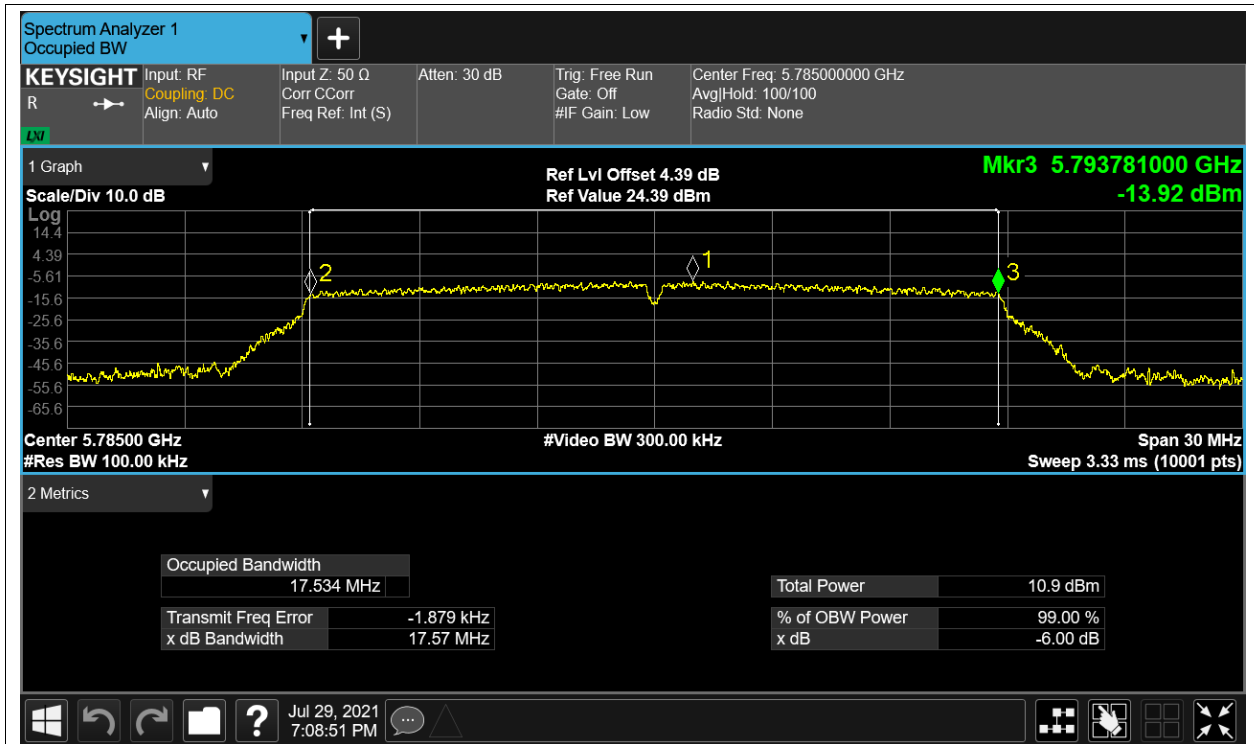


-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1





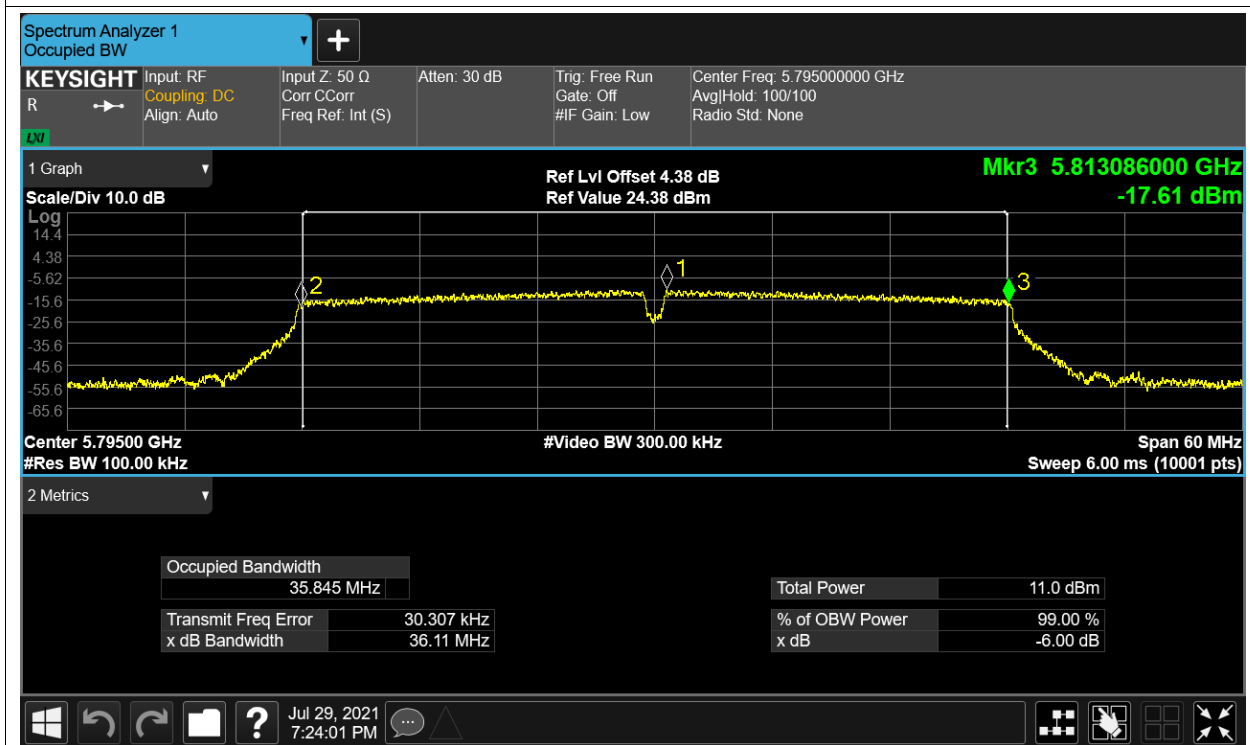
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1

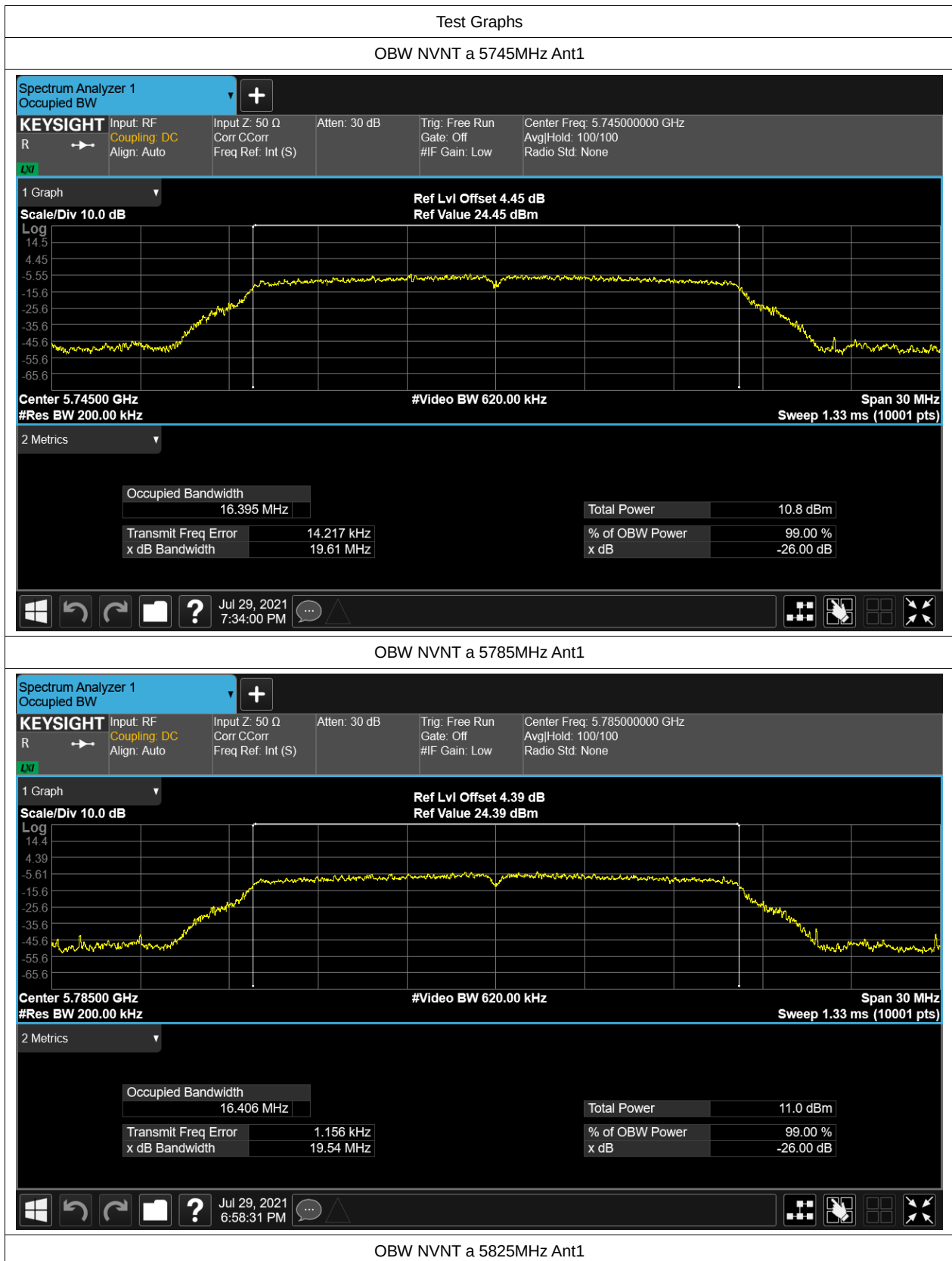


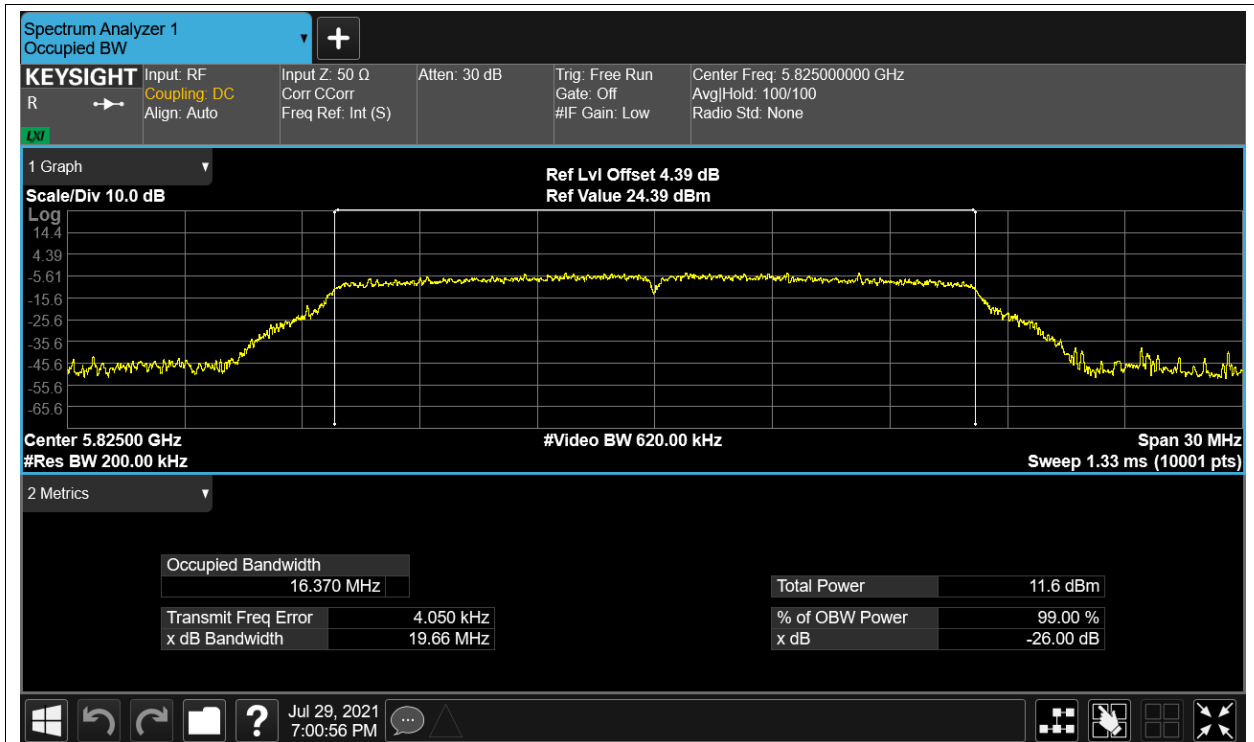
-6dB Bandwidth NVNT n40 5795MHz Ant1



## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.39487386   |
| NVNT      | a    | 5785            | Ant1    | 16.40638382   |
| NVNT      | a    | 5825            | Ant1    | 16.36961599   |
| NVNT      | ac20 | 5745            | Ant1    | 17.55762656   |
| NVNT      | ac20 | 5785            | Ant1    | 17.57937803   |
| NVNT      | ac20 | 5825            | Ant1    | 17.55084729   |
| NVNT      | ac40 | 5755            | Ant1    | 35.88982668   |
| NVNT      | ac40 | 5795            | Ant1    | 35.92508438   |
| NVNT      | ac80 | 5775            | Ant1    | 75.10247047   |
| NVNT      | n20  | 5745            | Ant1    | 17.54912705   |
| NVNT      | n20  | 5785            | Ant1    | 17.53572101   |
| NVNT      | n20  | 5825            | Ant1    | 17.56297336   |
| NVNT      | n40  | 5755            | Ant1    | 35.93125154   |
| NVNT      | n40  | 5795            | Ant1    | 35.91378298   |

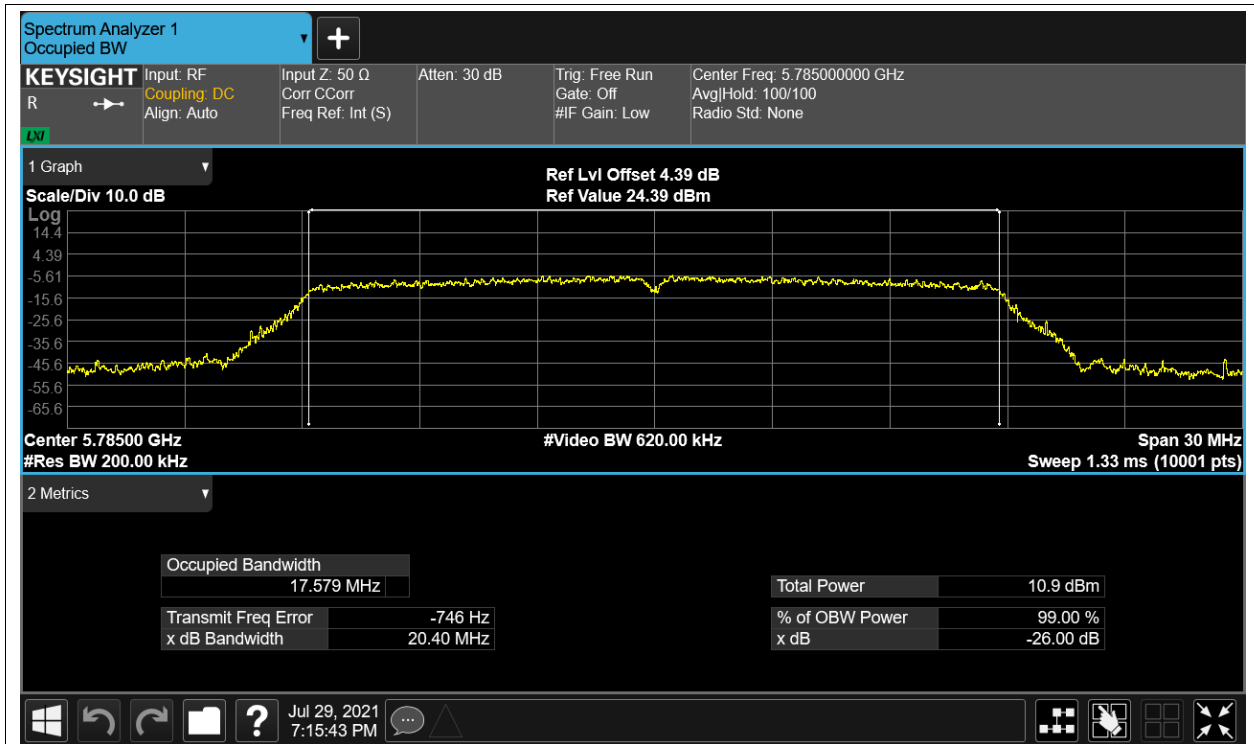




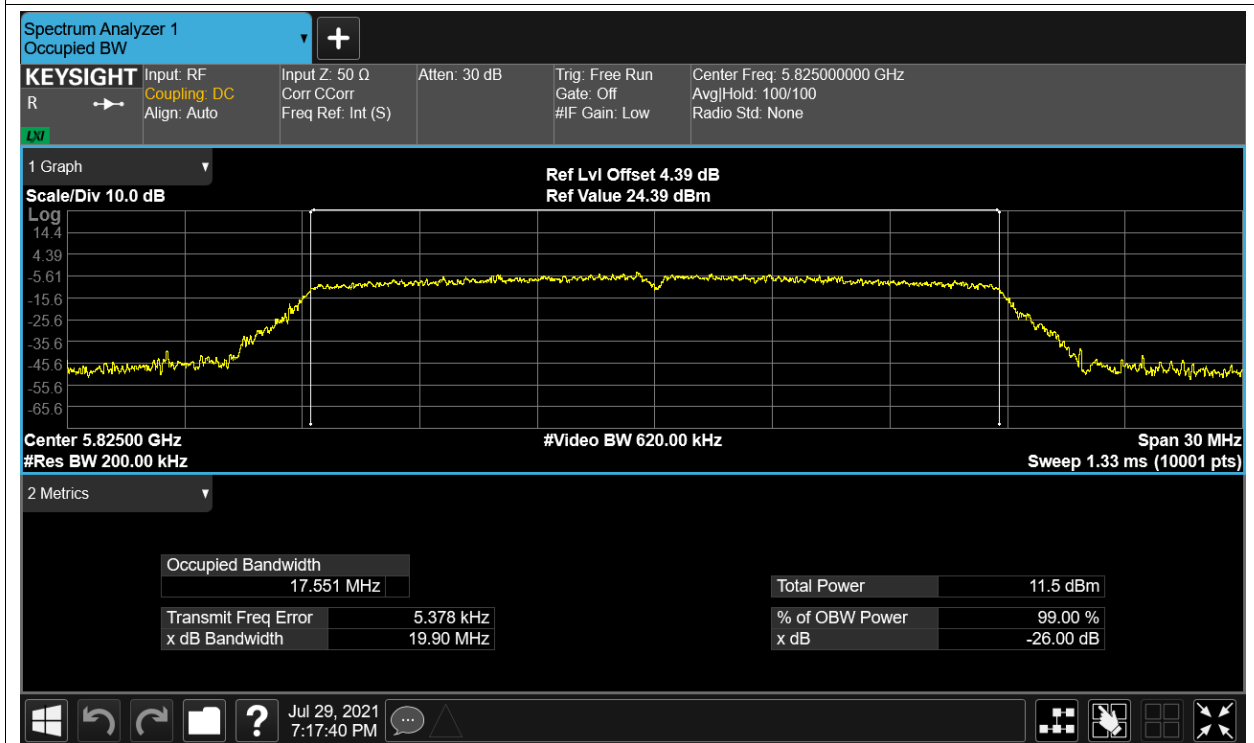
OBW NVNT ac20 5745MHz Ant1



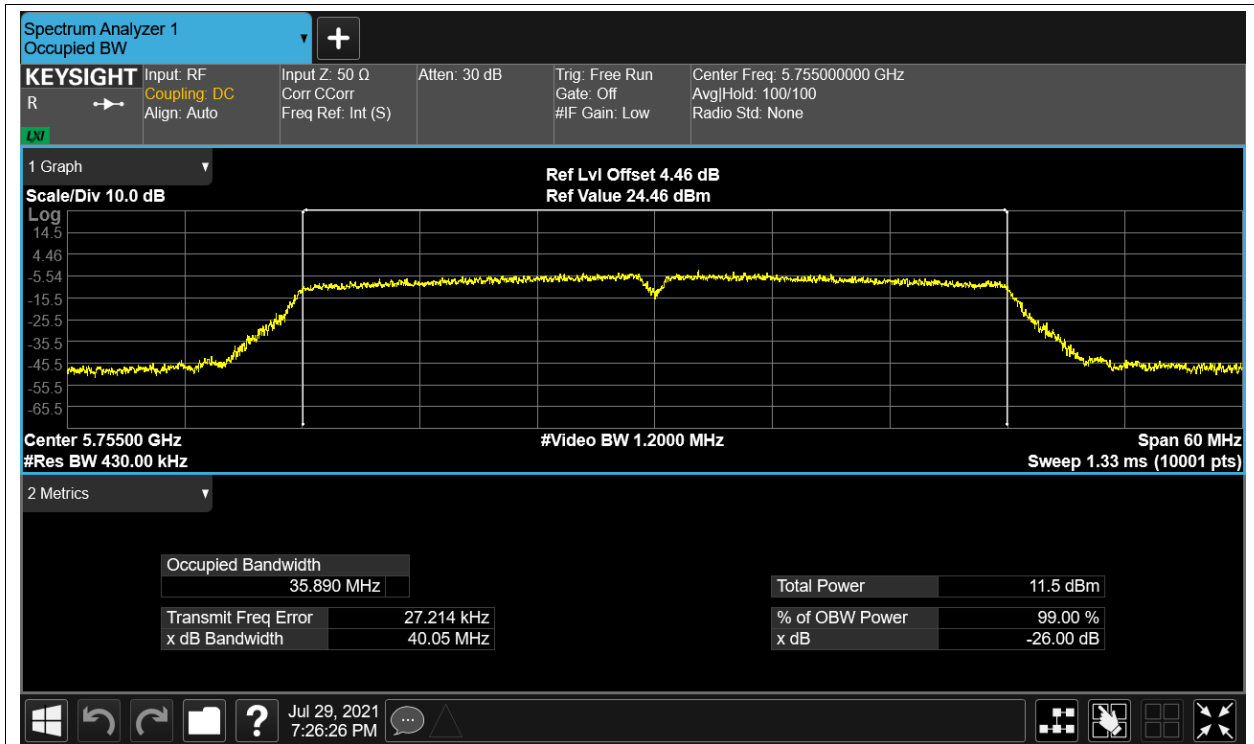
OBW NVNT ac20 5785MHz Ant1



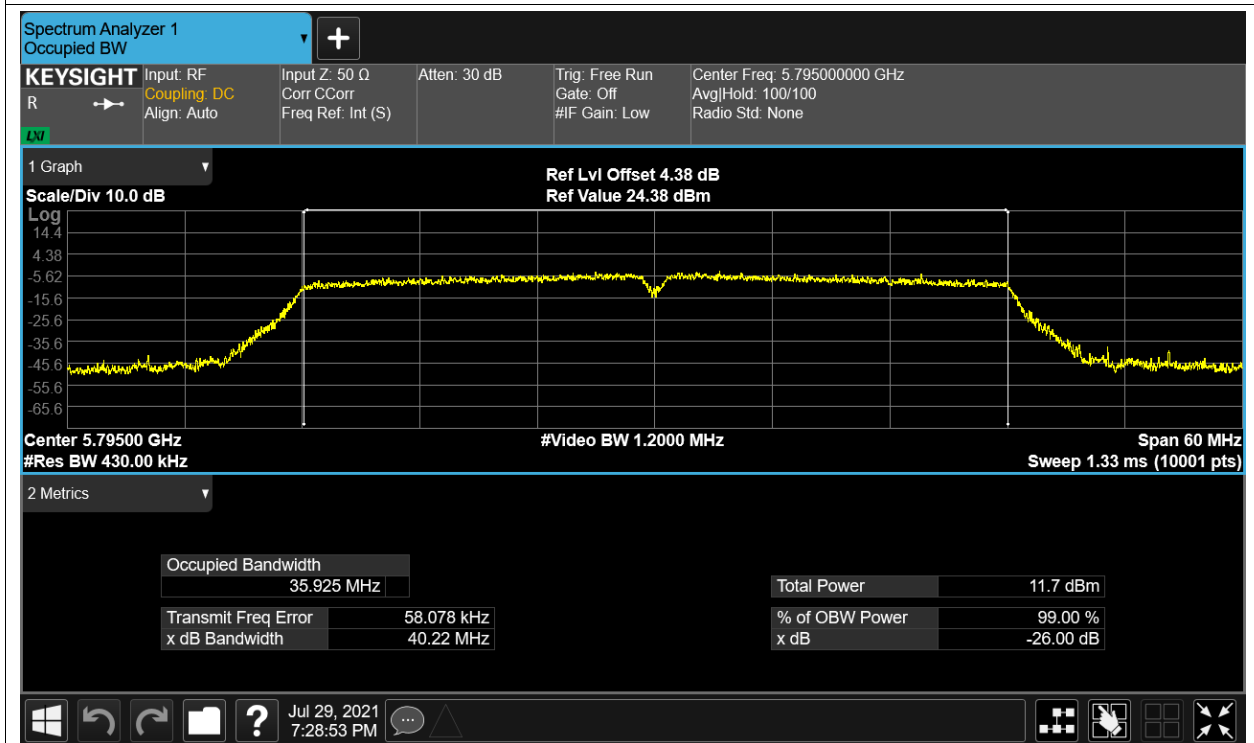
OBW NVNT ac20 5825MHz Ant1



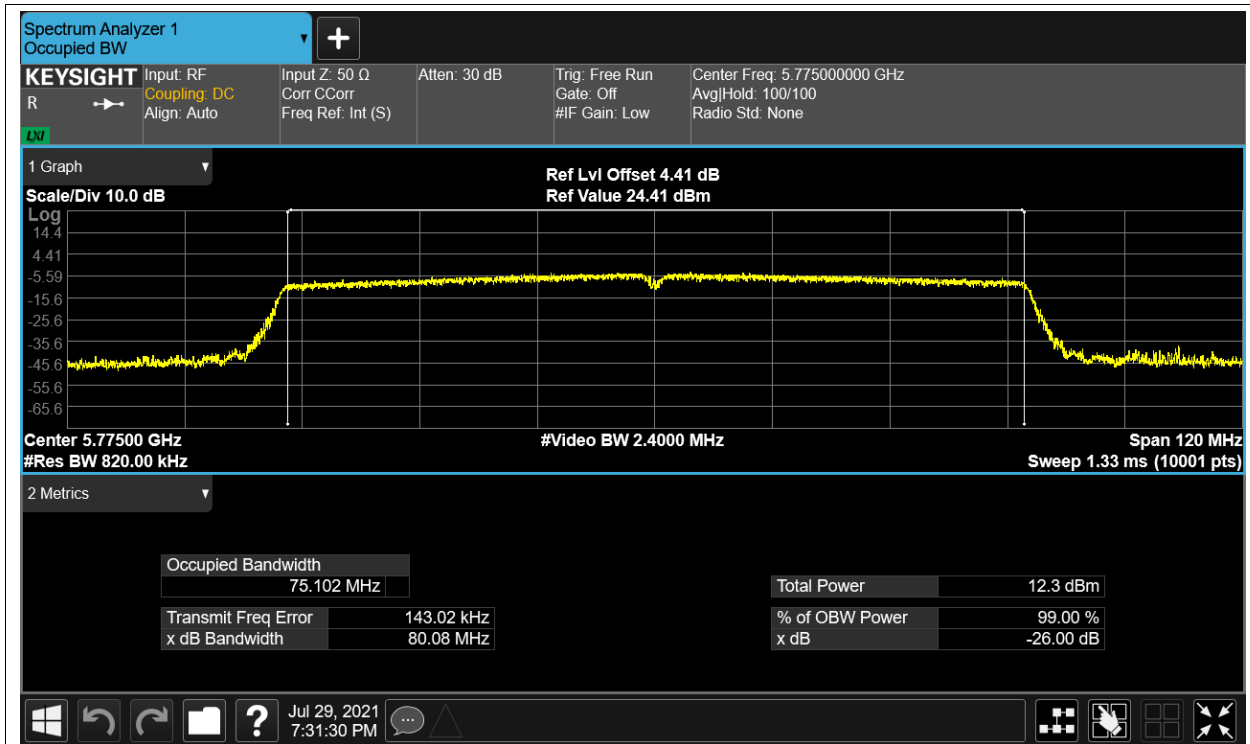
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



OBW NVNT ac80 5775MHz Ant1



OBW NVNT n20 5745MHz Ant1



OBW NVNT n20 5785MHz Ant1

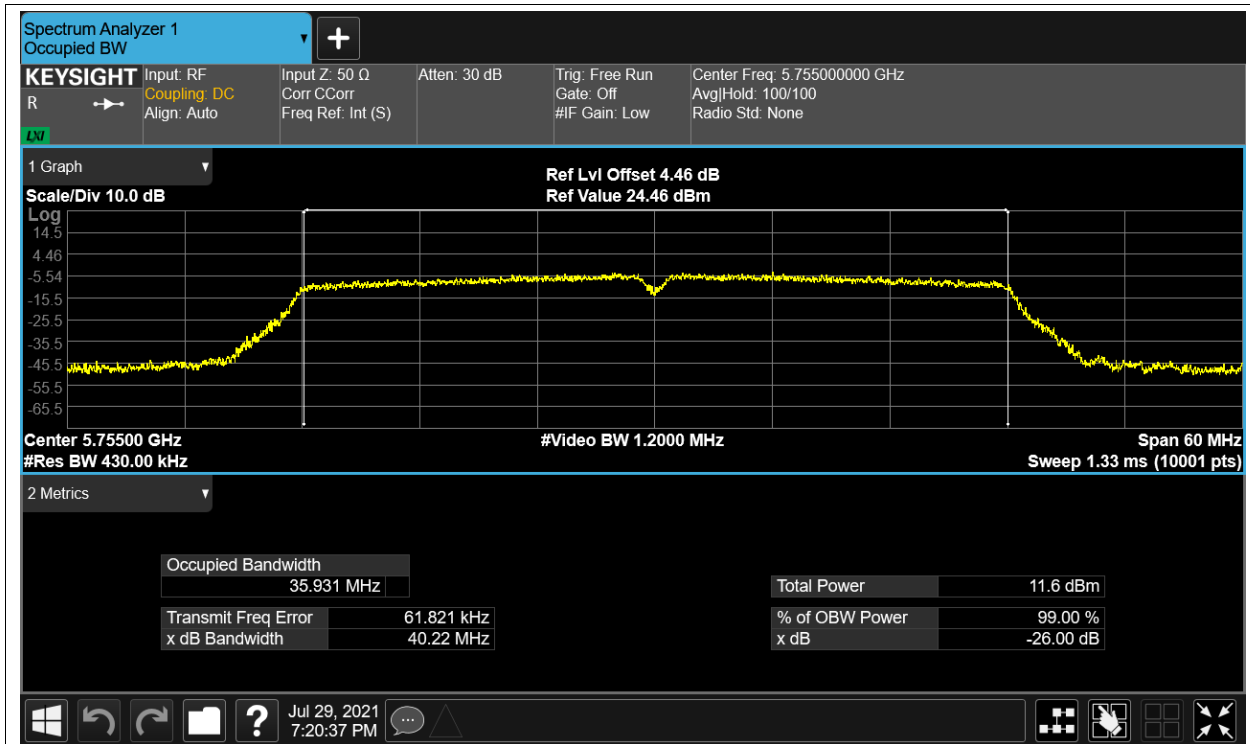




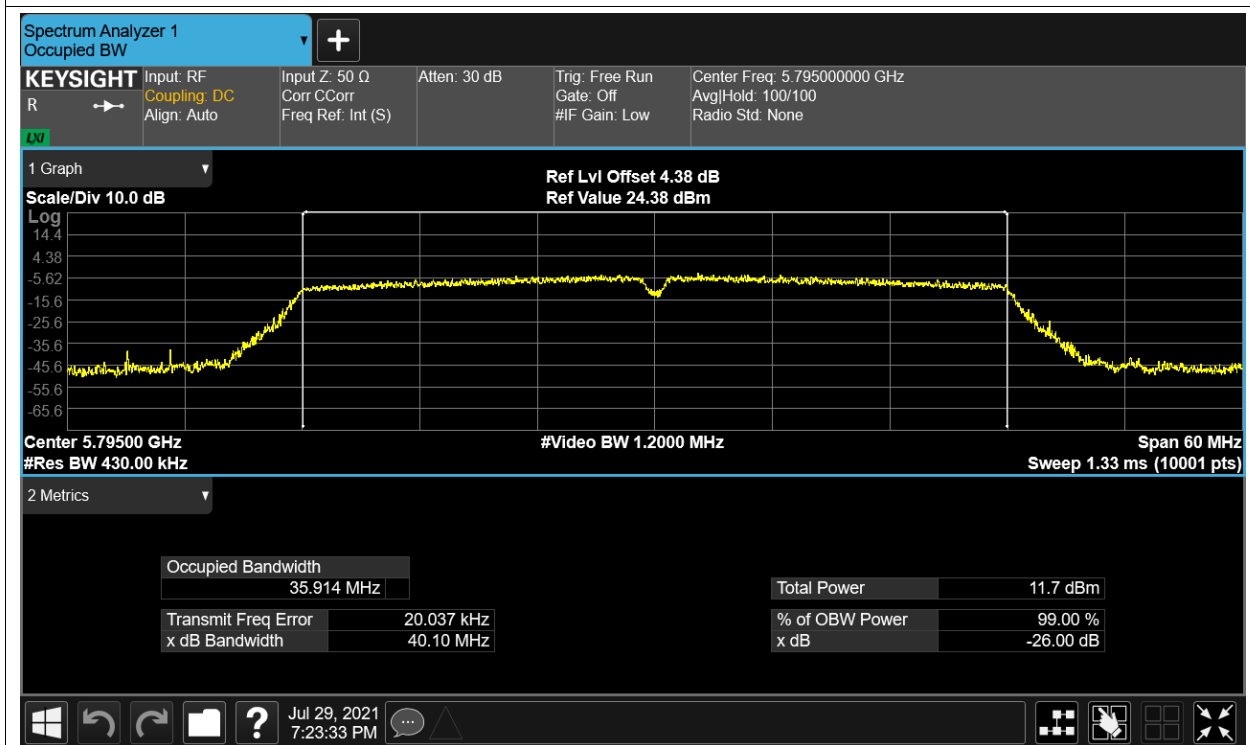
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



## Maximum Power Spectral Density Level

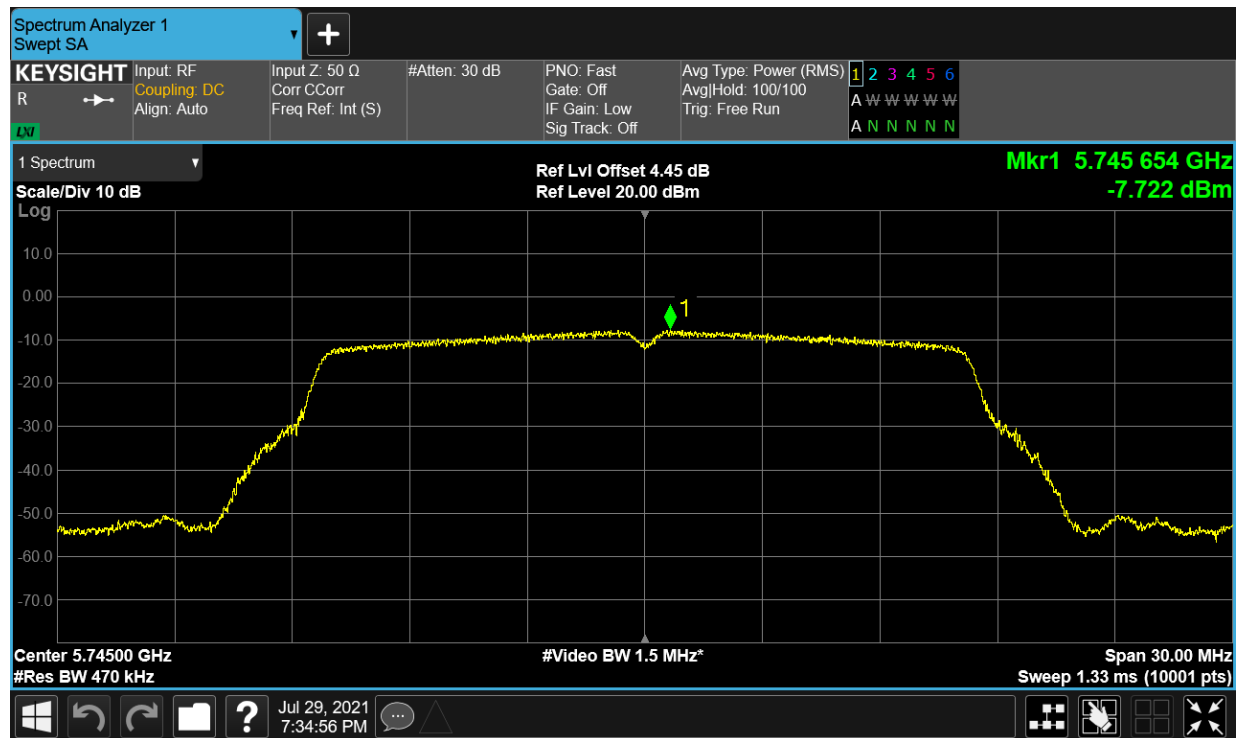
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Correction factor | Total Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------------|---------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -7.722        | 0.269             | -7.453              | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | -7.238        | 0.269             | -6.969              | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | -6.74         | 0.269             | -6.471              | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | -7.665        | 0.269             | -7.396              | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | -7.438        | 0.269             | -7.169              | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | -6.954        | 0.269             | -6.685              | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | -10.146       | 0.269             | -9.877              | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | -9.883        | 0.269             | -9.614              | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | -13.554       | 0.269             | -13.285             | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -7.912        | 0.269             | -7.643              | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -7.614        | 0.269             | -7.345              | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -7.145        | 0.269             | -6.876              | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -10.236       | 0.269             | -9.967              | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -9.791        | 0.269             | -9.522              | 30          | Pass    |

Remark: Final result showed in report was corrected by reading level showed in test plots + correction factor.

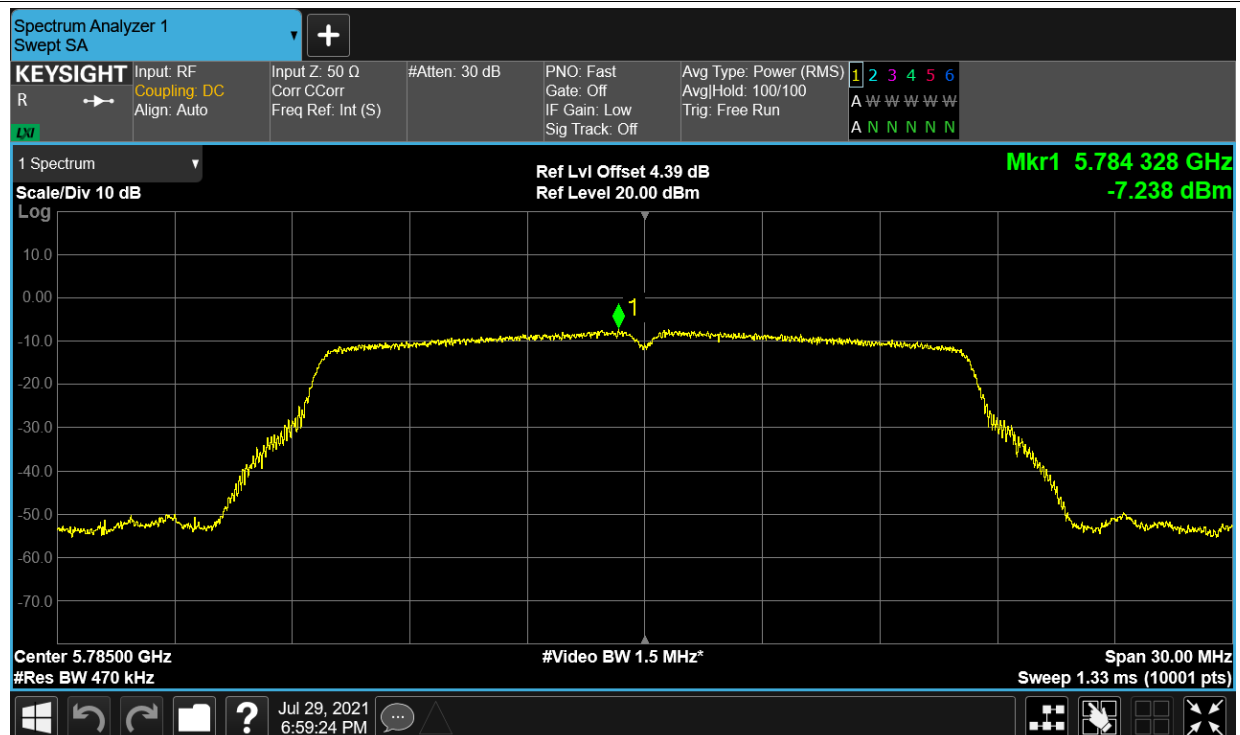
Correction factor =  $10 \log (500 \text{ kHz}_{\text{Reference}} / 470 \text{ KHz}_{\text{Measured}}) = 0.269$

Test Graphs

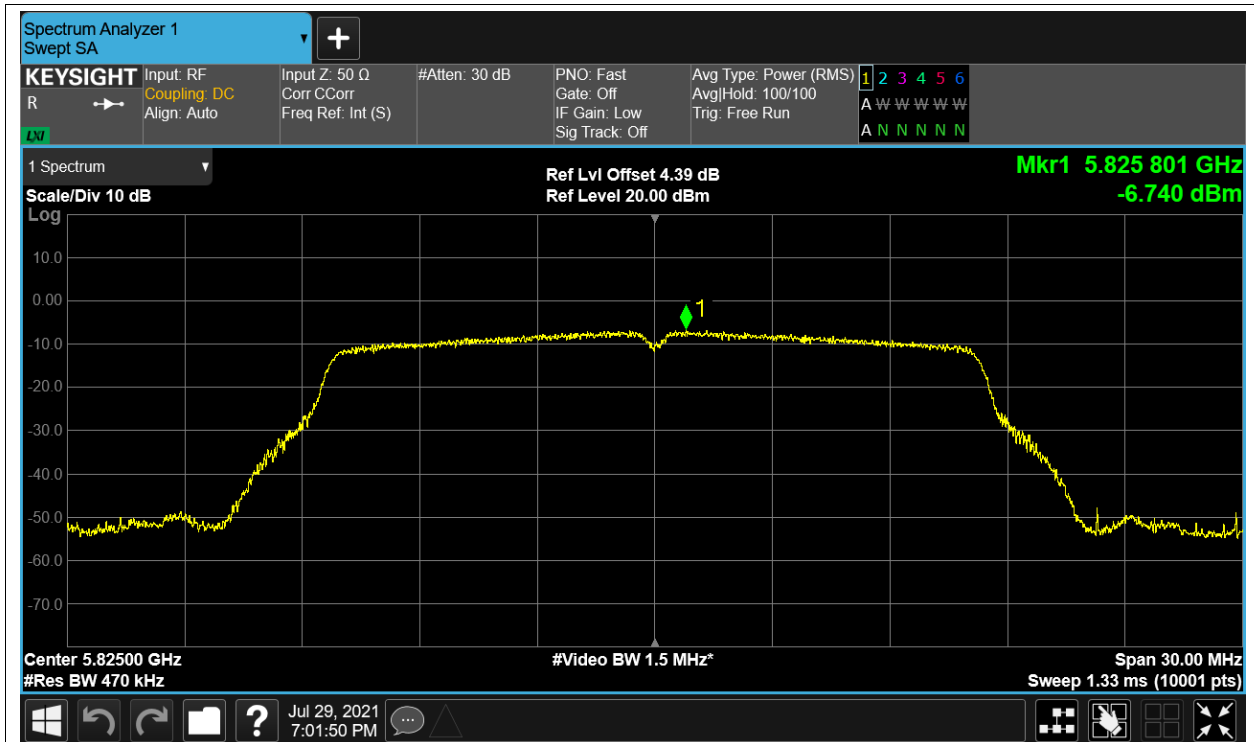
PSD NVNT a 5745MHz Ant1



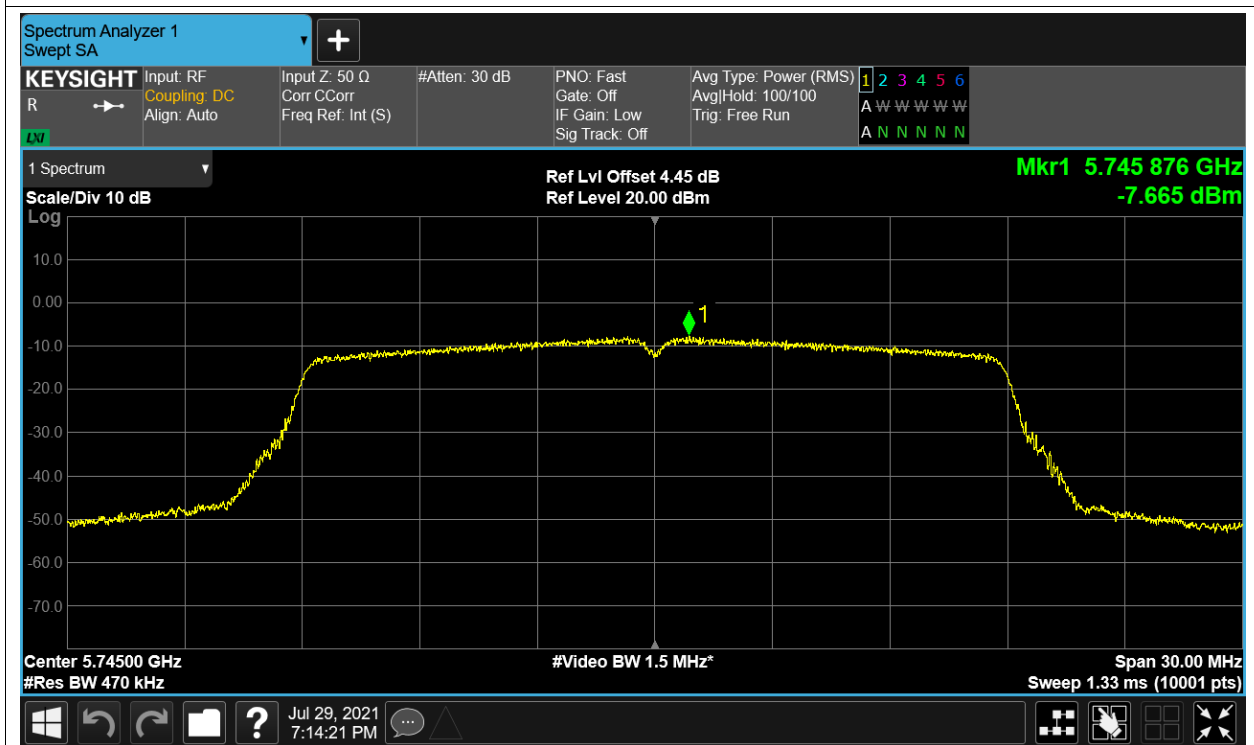
PSD NVNT a 5785MHz Ant1



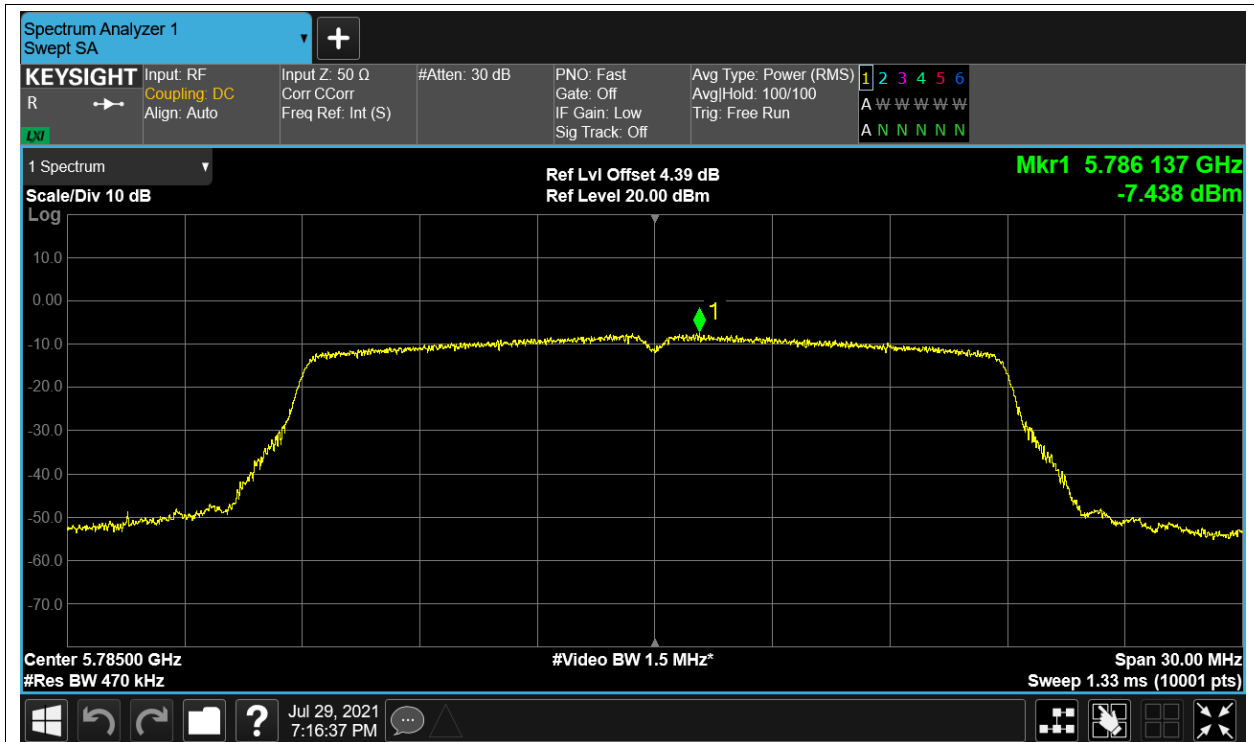
PSD NVNT a 5825MHz Ant1



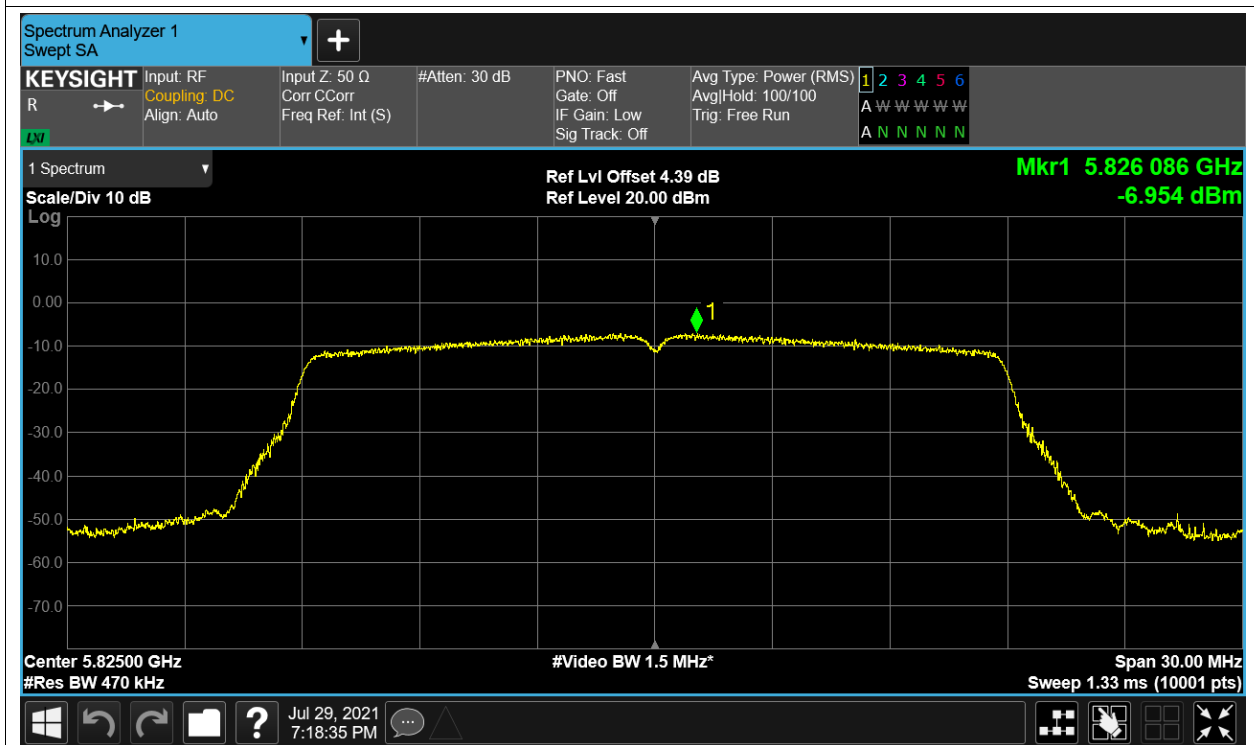
PSD NVNT ac20 5745MHz Ant1



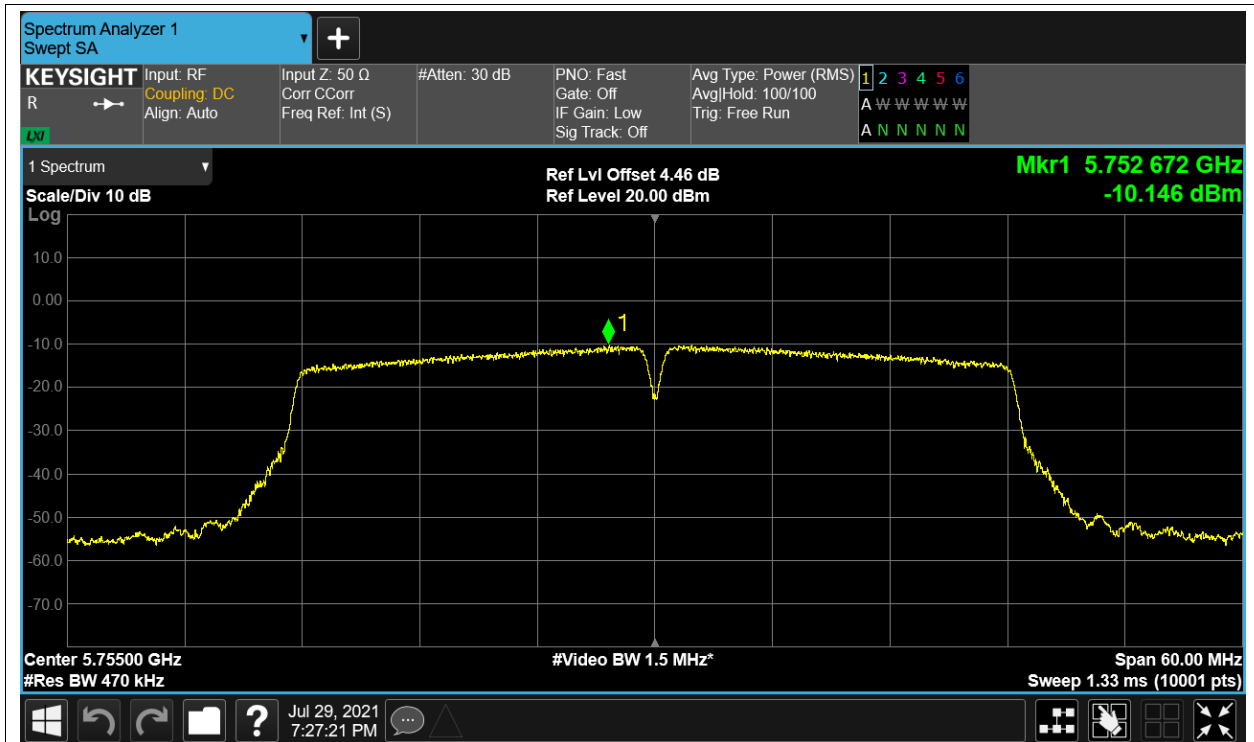
PSD NVNT ac20 5785MHz Ant1



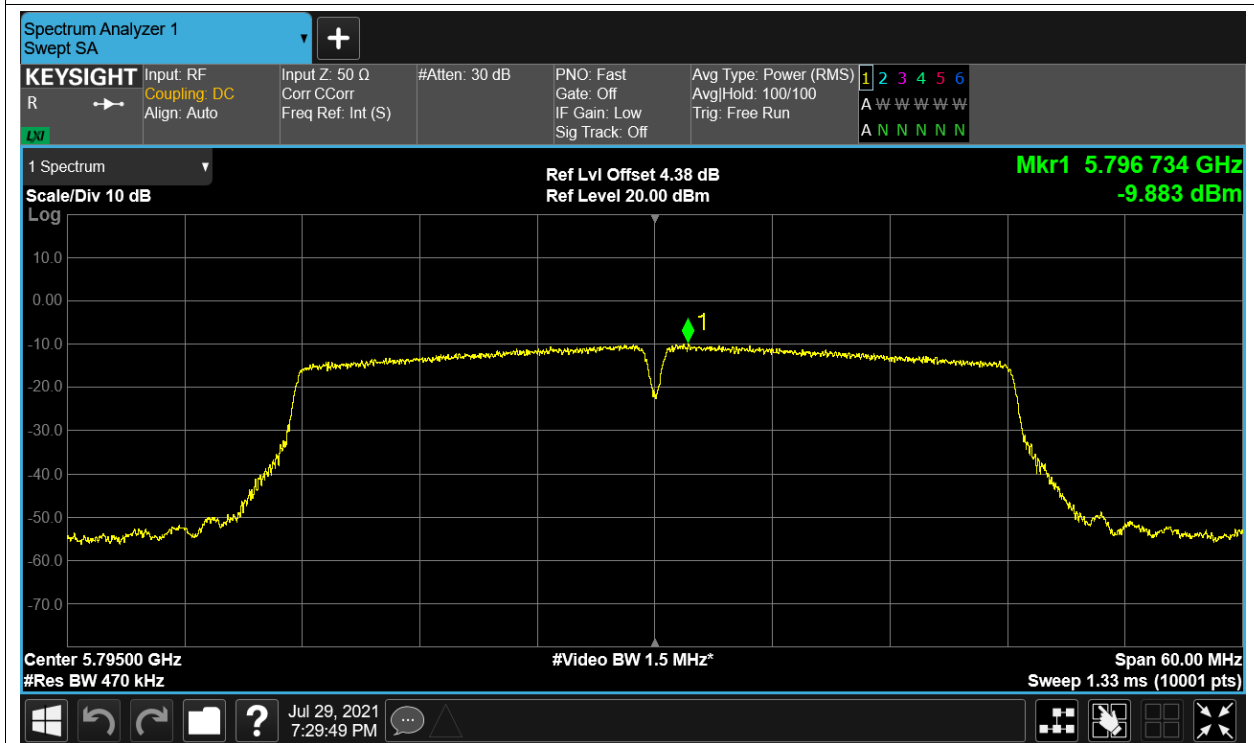
PSD NVNT ac20 5825MHz Ant1



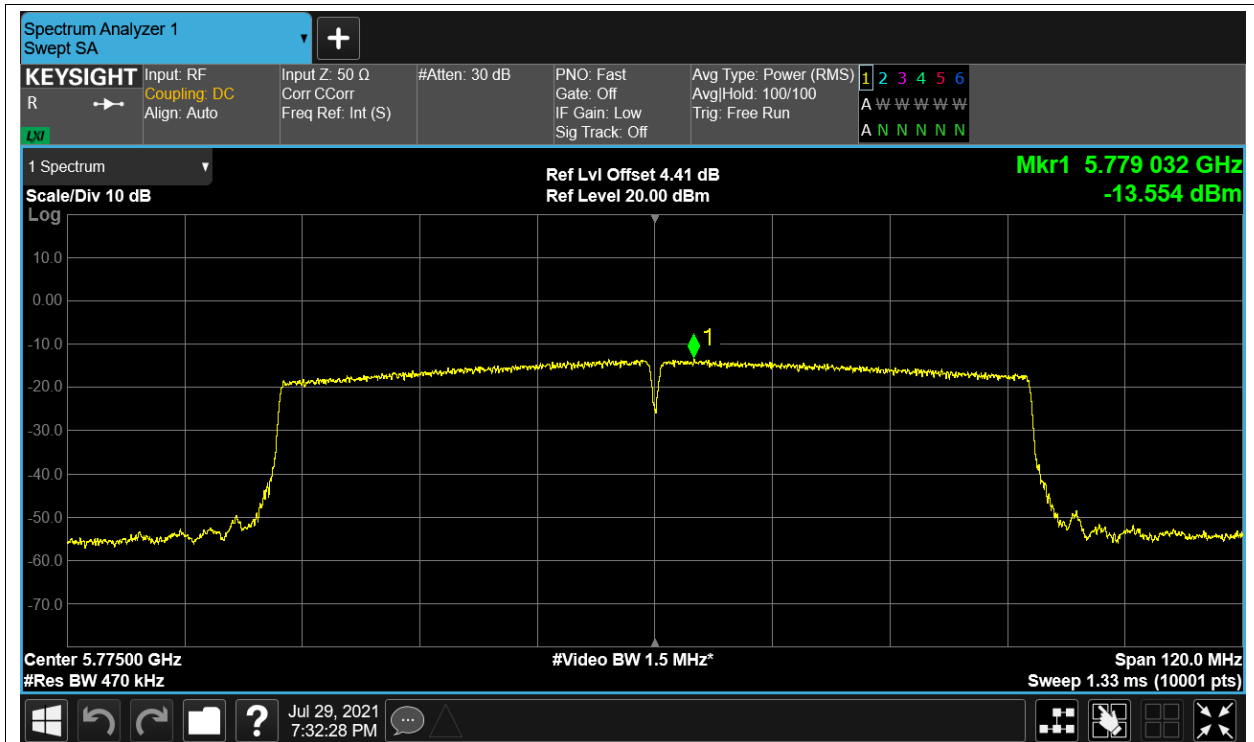
PSD NVNT ac40 5755MHz Ant1



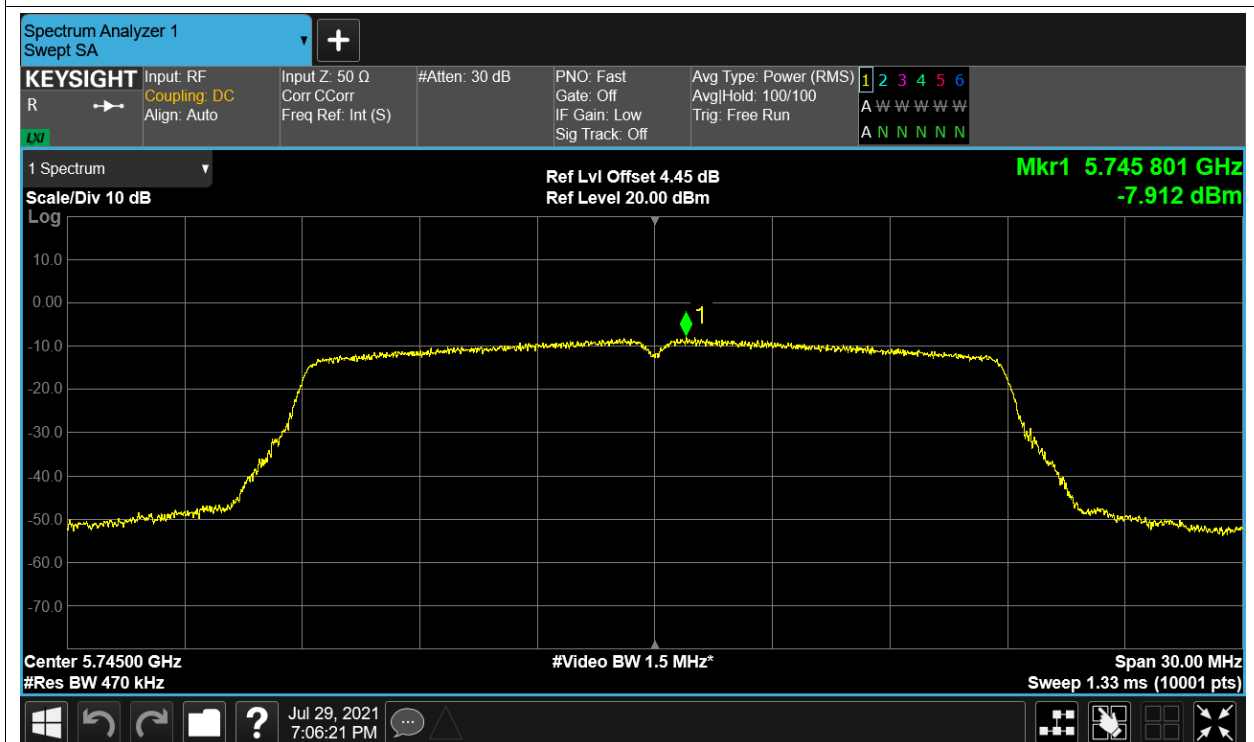
PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

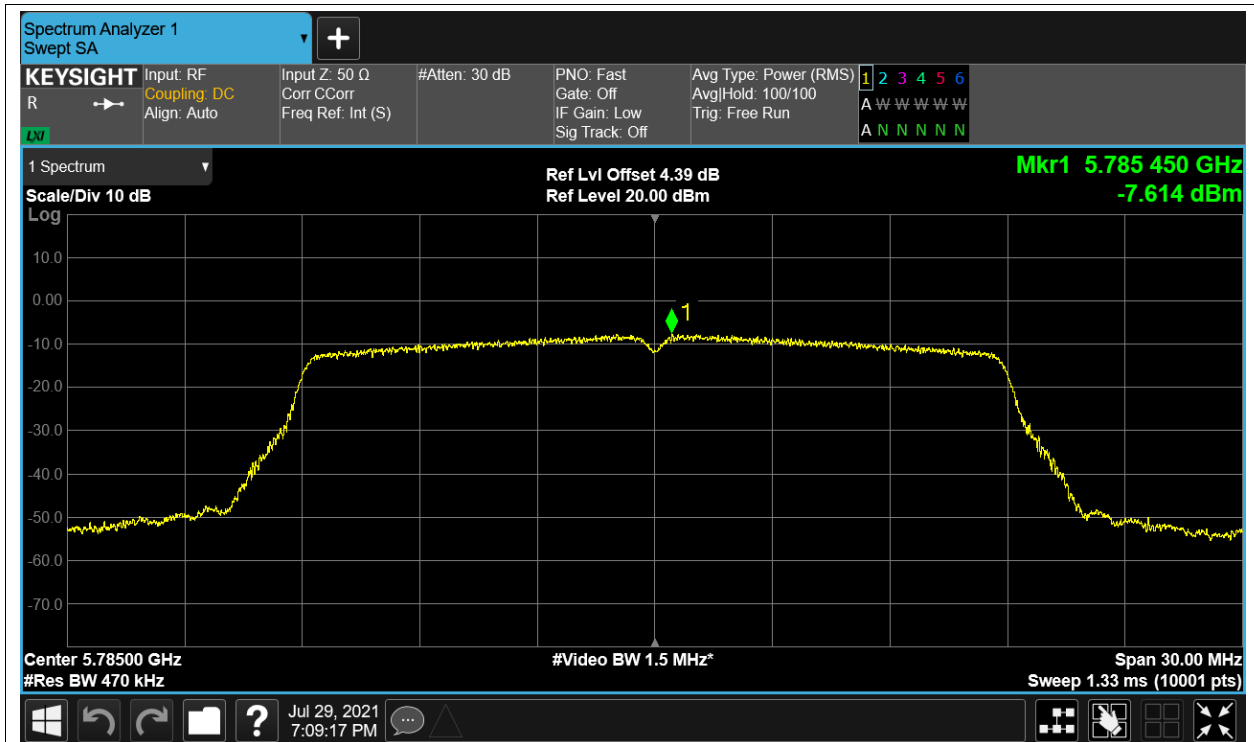


PSD NVNT n20 5745MHz Ant1

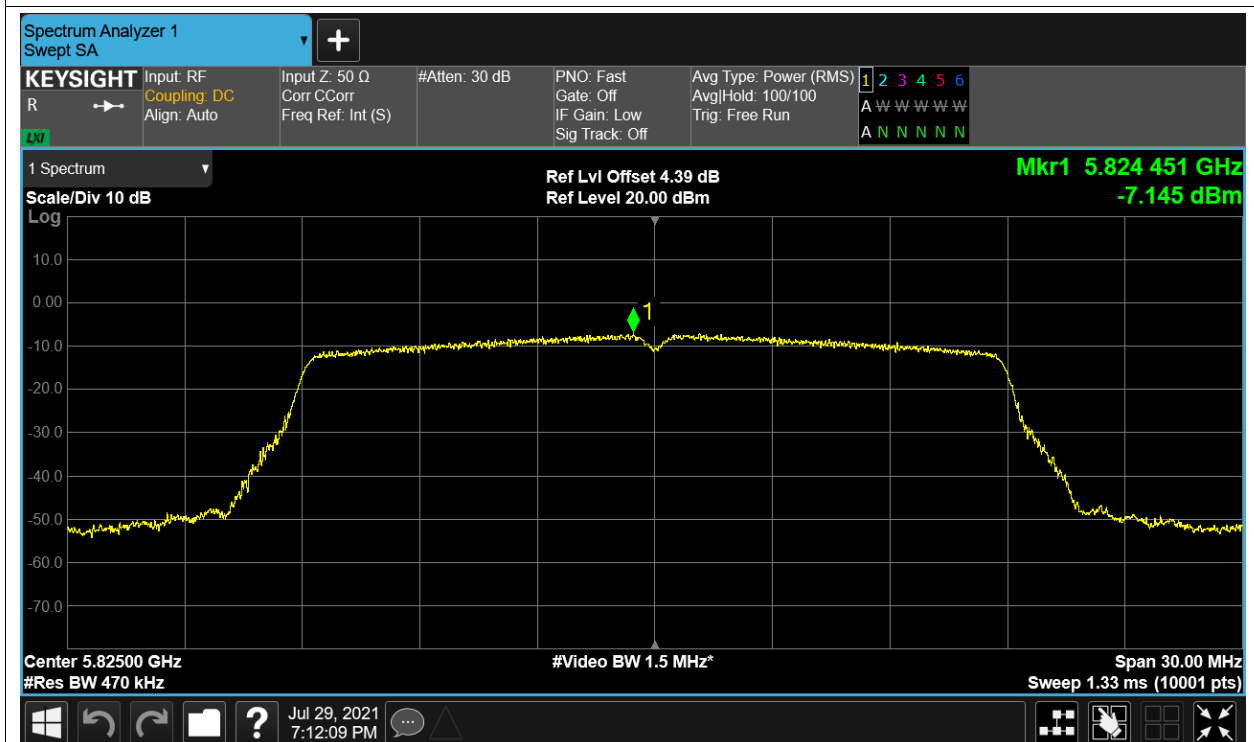


PSD NVNT n20 5785MHz Ant1

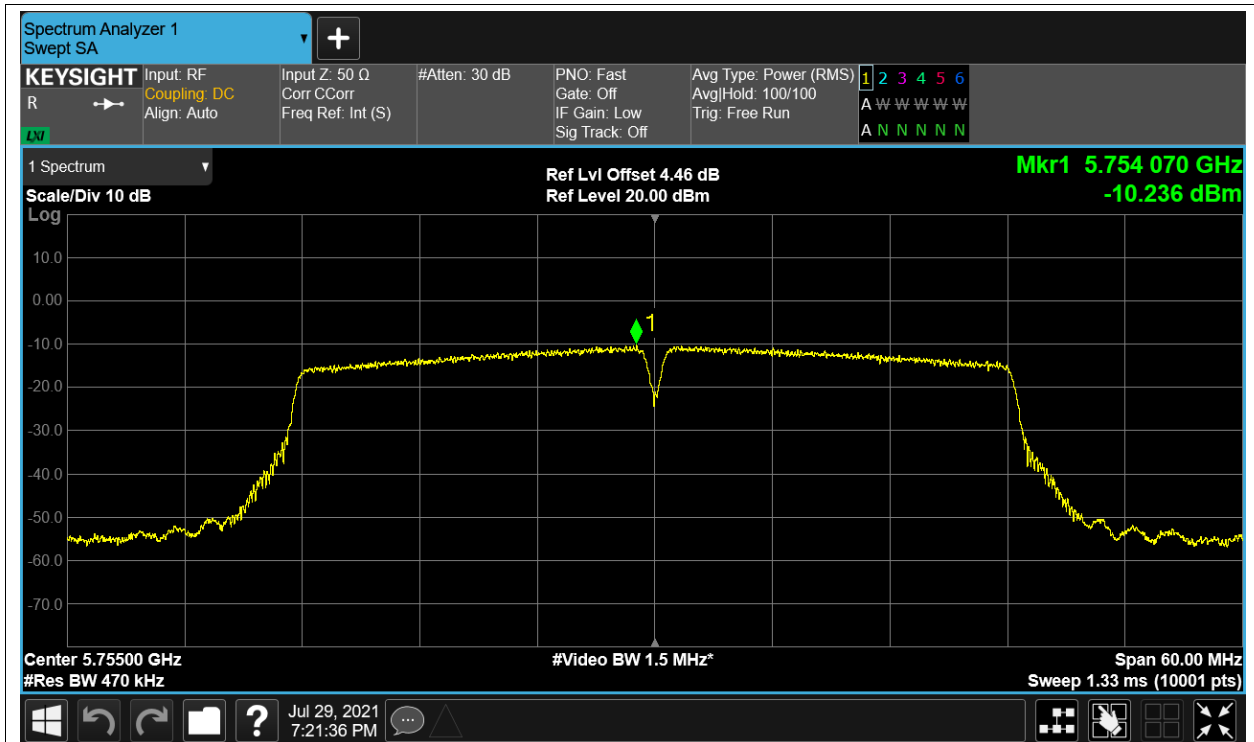




PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

