

# Appendix

# 1. Bandwidth

## 1.1 OBW

### 1.1.1 Test Result

#### -26dB Bandwidth

#### -26dB Bandwidth

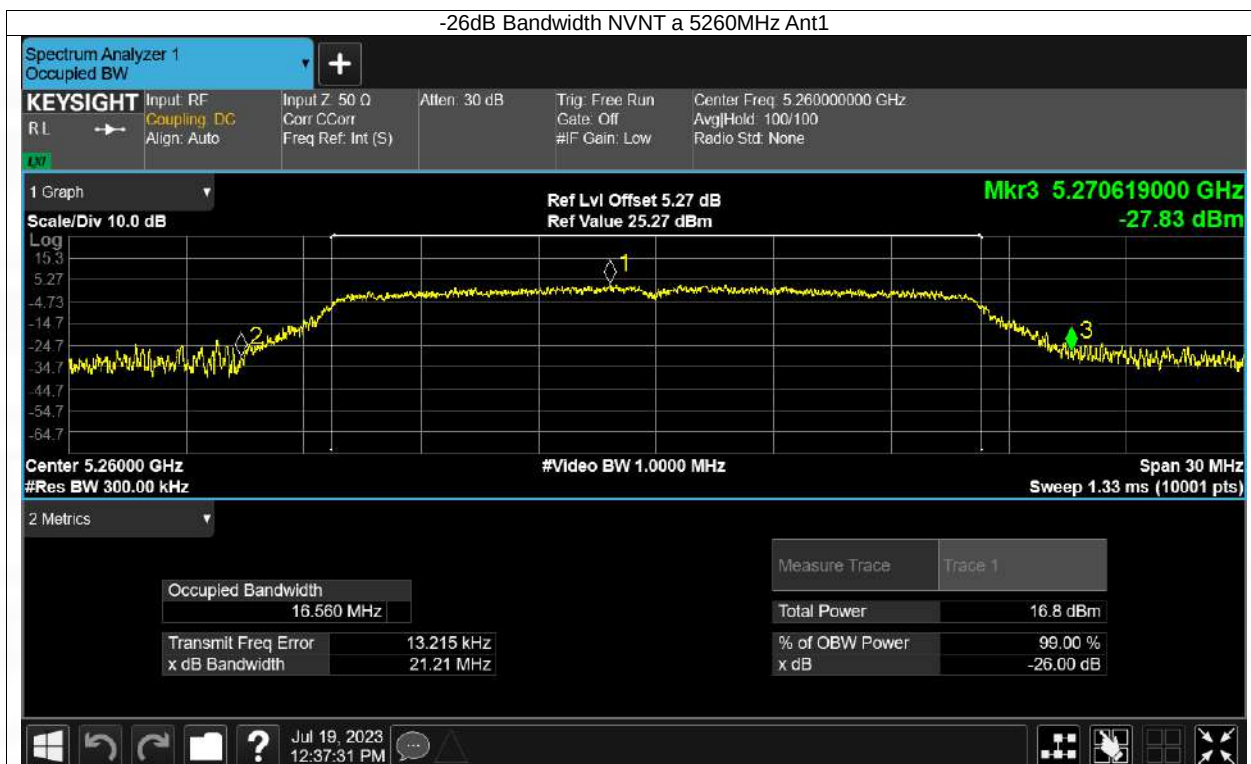
| Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|------------------------|------------------------------|---------|
| a    | 5180            | Ant1    | 20.153                 | 0.5                          | Pass    |
| a    | 5240            | Ant1    | 20.817                 | 0.5                          | Pass    |
| a    | 5260            | Ant1    | 21.212                 | 0.5                          | Pass    |
| a    | 5320            | Ant1    | 19.949                 | 0.5                          | Pass    |
| a    | 5500            | Ant1    | 22.53                  | 0.5                          | Pass    |
| a    | 5700            | Ant1    | 20.697                 | 0.5                          | Pass    |
| n20  | 5180            | Ant1    | 24.363                 | 0.5                          | Pass    |
| n20  | 5240            | Ant1    | 25.383                 | 0.5                          | Pass    |
| n20  | 5260            | Ant1    | 26.712                 | 0.5                          | Pass    |
| n20  | 5320            | Ant1    | 23.121                 | 0.5                          | Pass    |
| n20  | 5500            | Ant1    | 25.74                  | 0.5                          | Pass    |
| n20  | 5700            | Ant1    | 24.048                 | 0.5                          | Pass    |
| n40  | 5190            | Ant1    | 39.796                 | 0.5                          | Pass    |
| n40  | 5230            | Ant1    | 39.966                 | 0.5                          | Pass    |
| n40  | 5270            | Ant1    | 44.061                 | 0.5                          | Pass    |
| n40  | 5310            | Ant1    | 39.951                 | 0.5                          | Pass    |
| n40  | 5510            | Ant1    | 49.778                 | 0.5                          | Pass    |
| n40  | 5670            | Ant1    | 39.434                 | 0.5                          | Pass    |
| ac20 | 5180            | Ant1    | 20.363                 | 0.5                          | Pass    |
| ac20 | 5240            | Ant1    | 20.417                 | 0.5                          | Pass    |
| ac20 | 5260            | Ant1    | 22.618                 | 0.5                          | Pass    |
| ac20 | 5320            | Ant1    | 20.467                 | 0.5                          | Pass    |
| ac20 | 5500            | Ant1    | 21.366                 | 0.5                          | Pass    |
| ac20 | 5700            | Ant1    | 20.995                 | 0.5                          | Pass    |
| ac40 | 5190            | Ant1    | 39.684                 | 0.5                          | Pass    |
| ac40 | 5230            | Ant1    | 39.837                 | 0.5                          | Pass    |
| ac40 | 5270            | Ant1    | 39.512                 | 0.5                          | Pass    |
| ac40 | 5310            | Ant1    | 39.517                 | 0.5                          | Pass    |
| ac40 | 5510            | Ant1    | 39.957                 | 0.5                          | Pass    |
| ac40 | 5670            | Ant1    | 40.215                 | 0.5                          | Pass    |
| ac80 | 5210            | Ant1    | 79.651                 | 0.5                          | Pass    |
| ac80 | 5290            | Ant1    | 79.399                 | 0.5                          | Pass    |
| ac80 | 5530            | Ant1    | 79.399                 | 0.5                          | Pass    |
| ac80 | 5610            | Ant1    | 79.745                 | 0.5                          | Pass    |

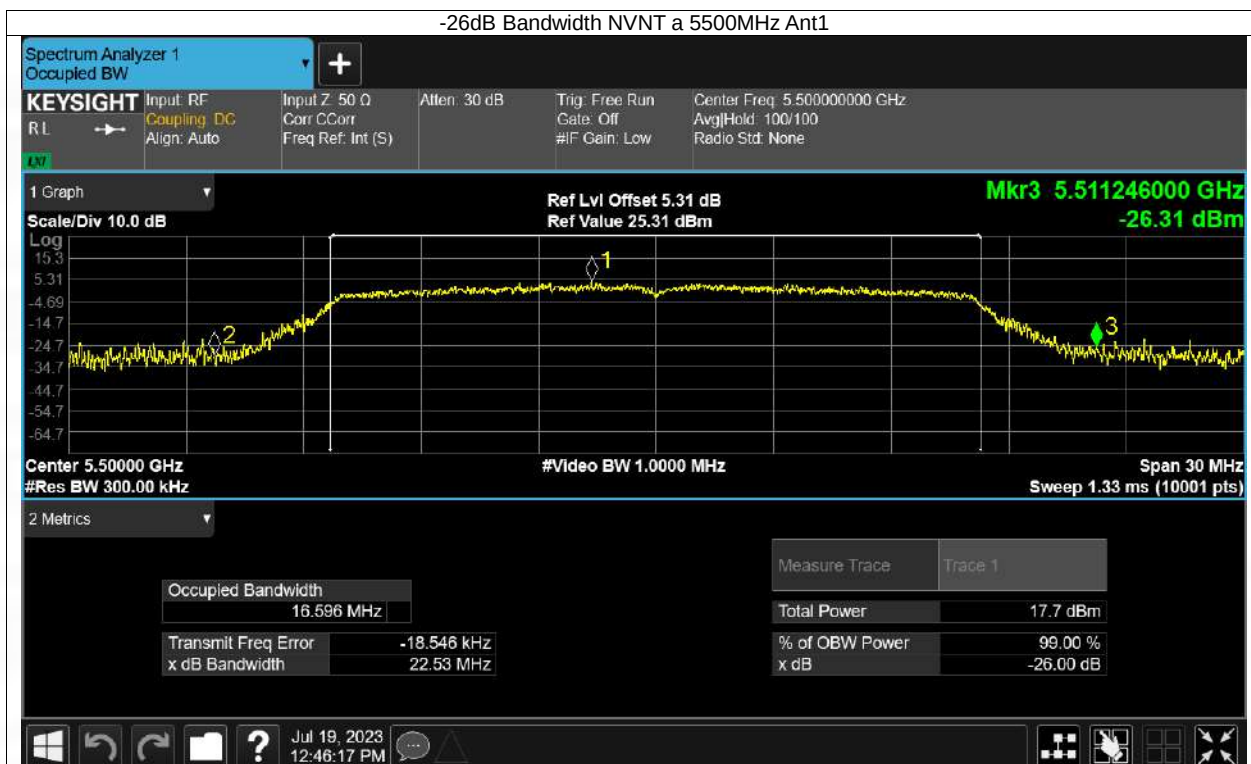
#### -6dB Bandwidth

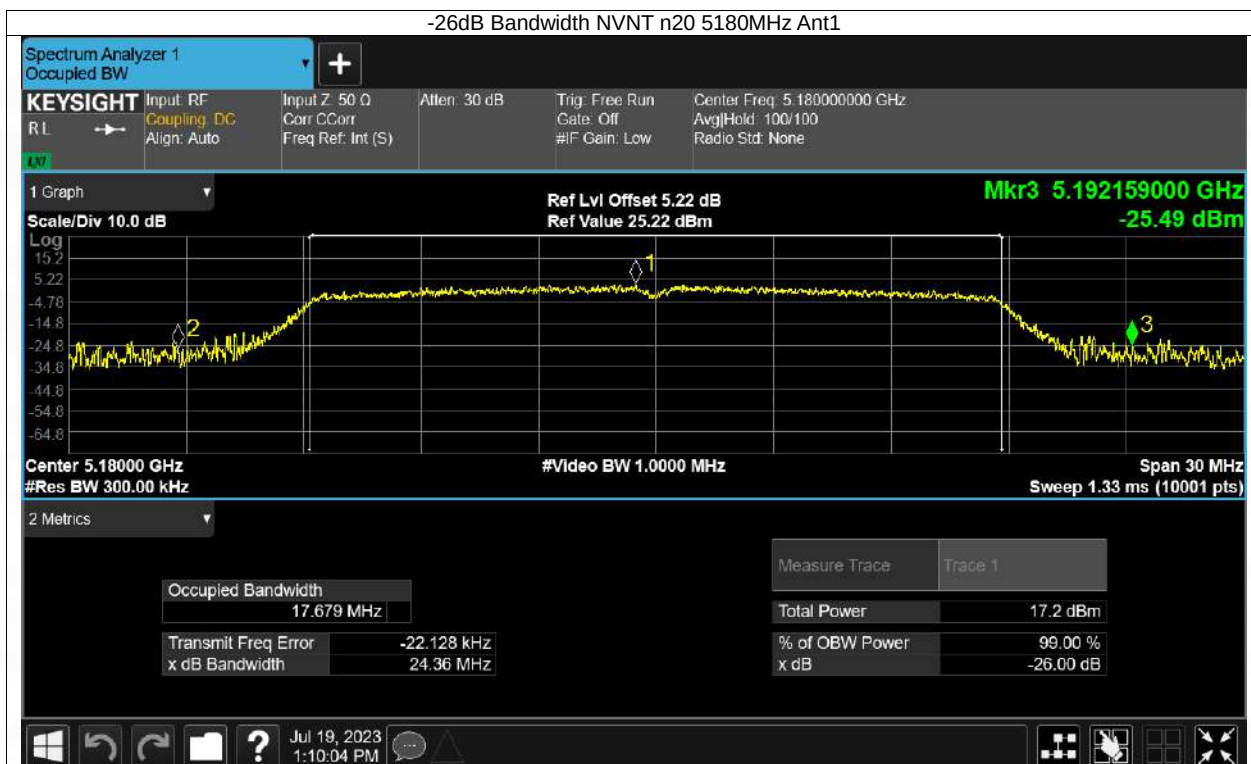
| Band                            | Channel | Frequency (MHz) | -6 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---------------------------------|---------|-----------------|-----------------------|------------------------------|-----------------------------|---------|
| <b>20MHz(IEEE 802.11a/n/ac)</b> |         |                 |                       |                              |                             |         |
| 4                               | Low     | 5745            | 17.53                 | 17.530                       | > 0.5                       | Pass    |
|                                 | High    | 5825            | 17.509                | 17.510                       | > 0.5                       | Pass    |
| <b>40MHz(IEEE 802.11n/ac)</b>   |         |                 |                       |                              |                             |         |
| 4                               | Low     | 5755            | 35.929                | 35.930                       | > 0.5                       | Pass    |
|                                 | High    | 5795            | 36.294                | 36.290                       | > 0.5                       | Pass    |
| <b>80MHz(IEEE 802.11ac)</b>     |         |                 |                       |                              |                             |         |
| 4                               | High    | 5775            | 75.066                | 75.070                       | > 0.5                       | Pass    |

## 1.1.2 Test Graph

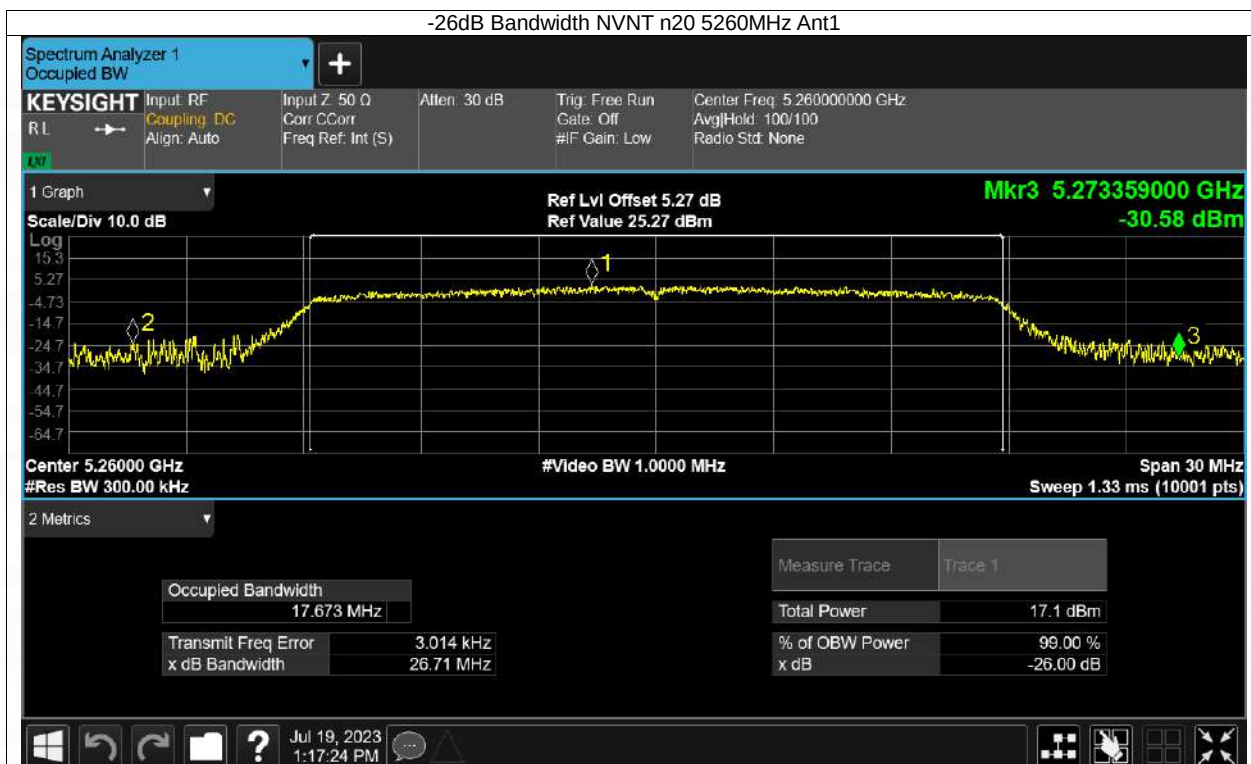


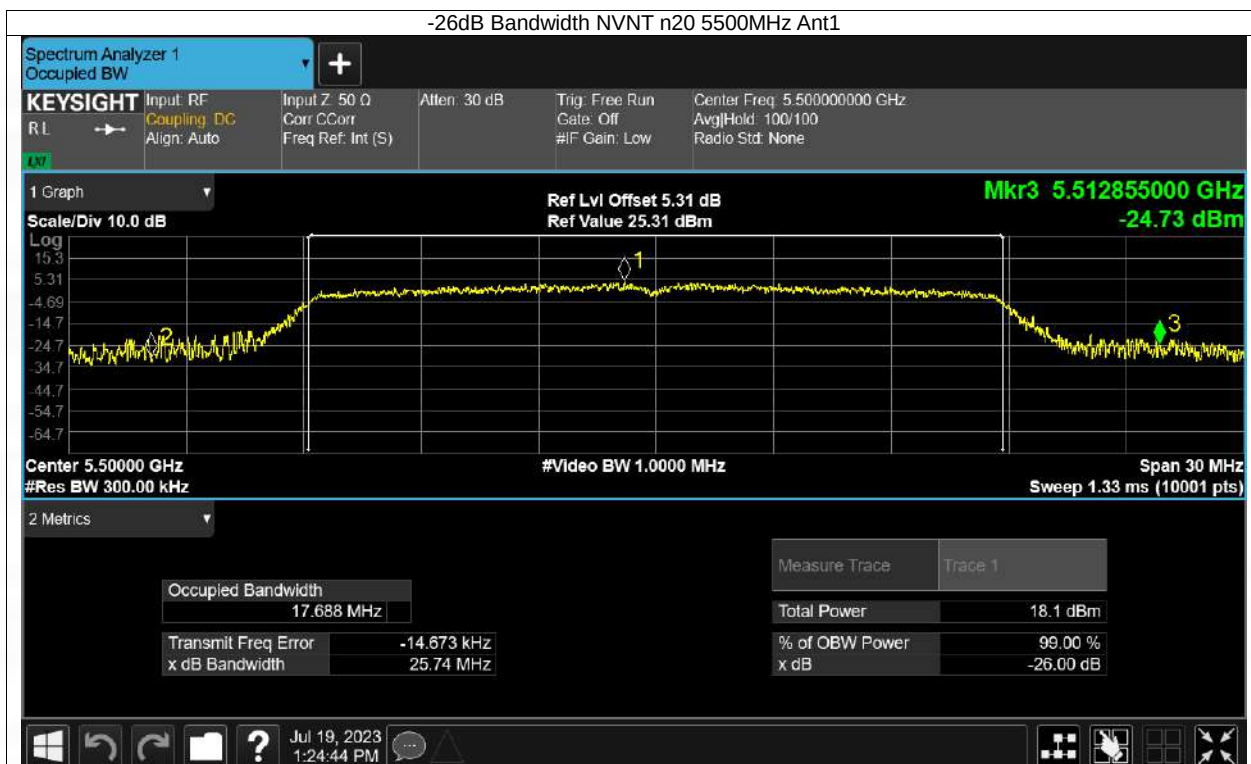




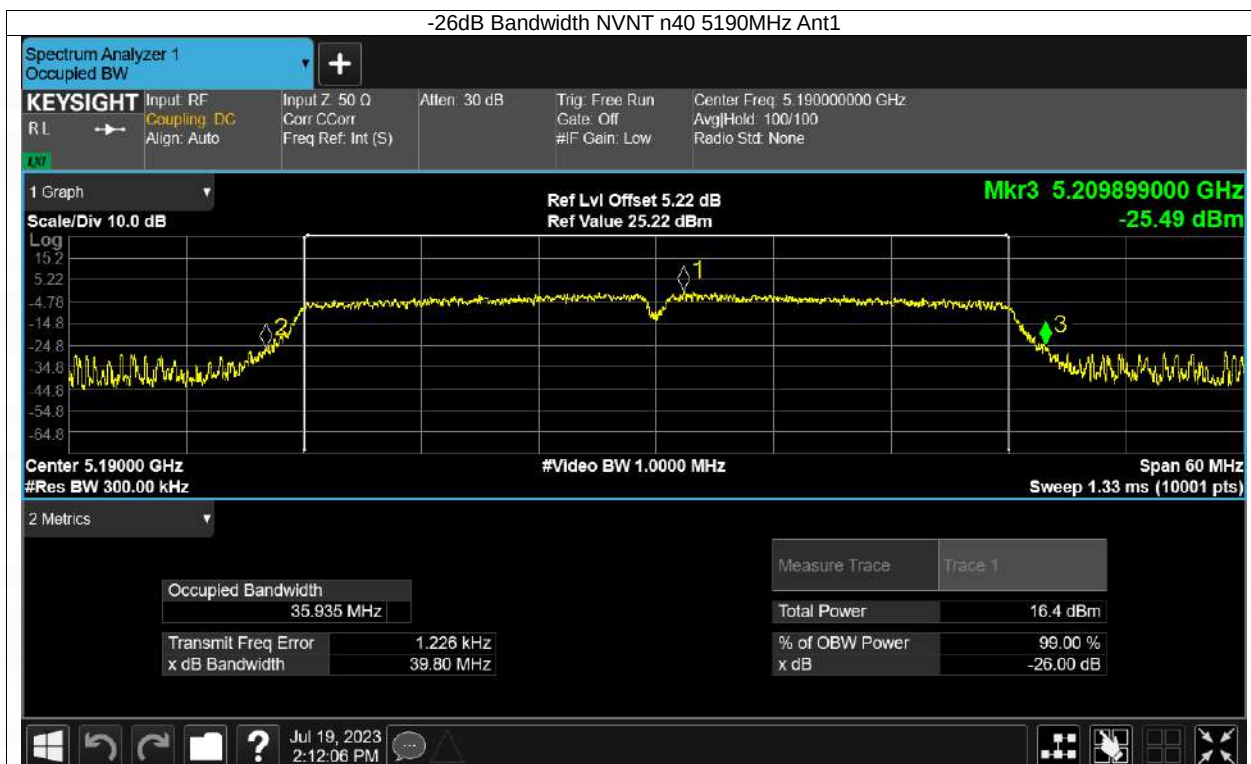


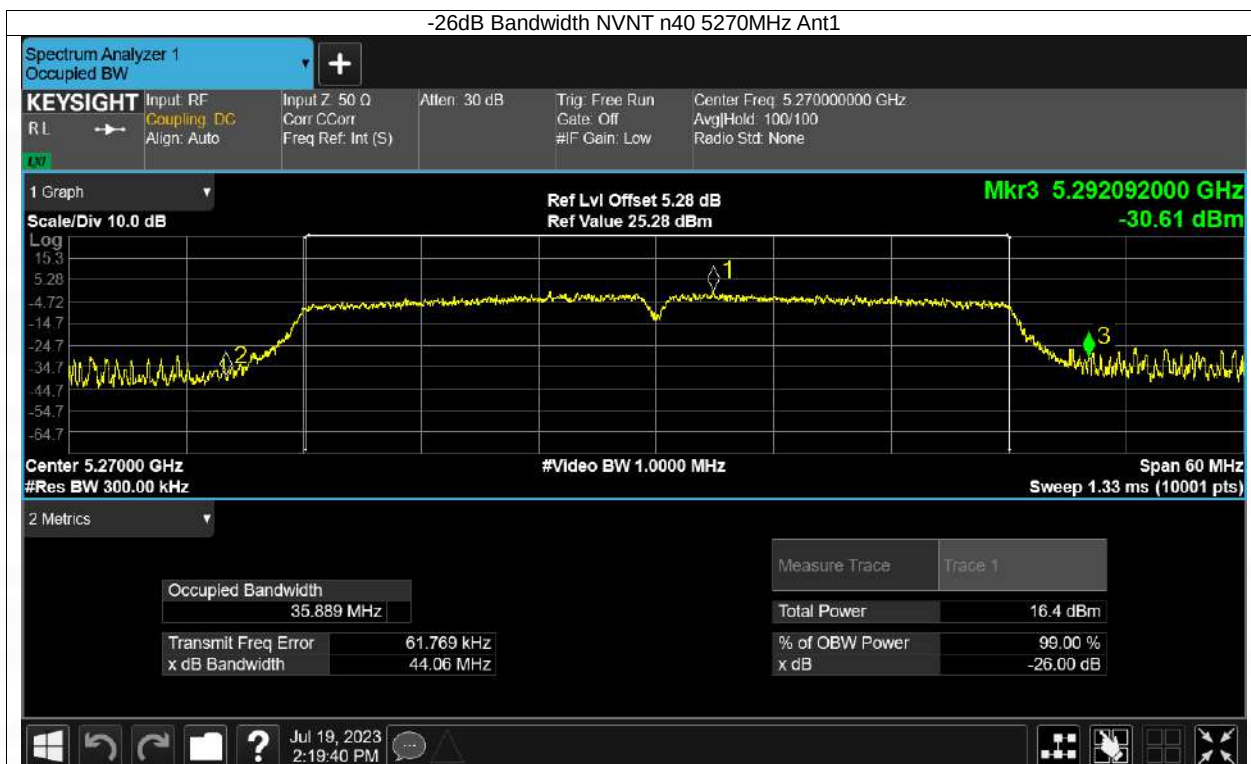


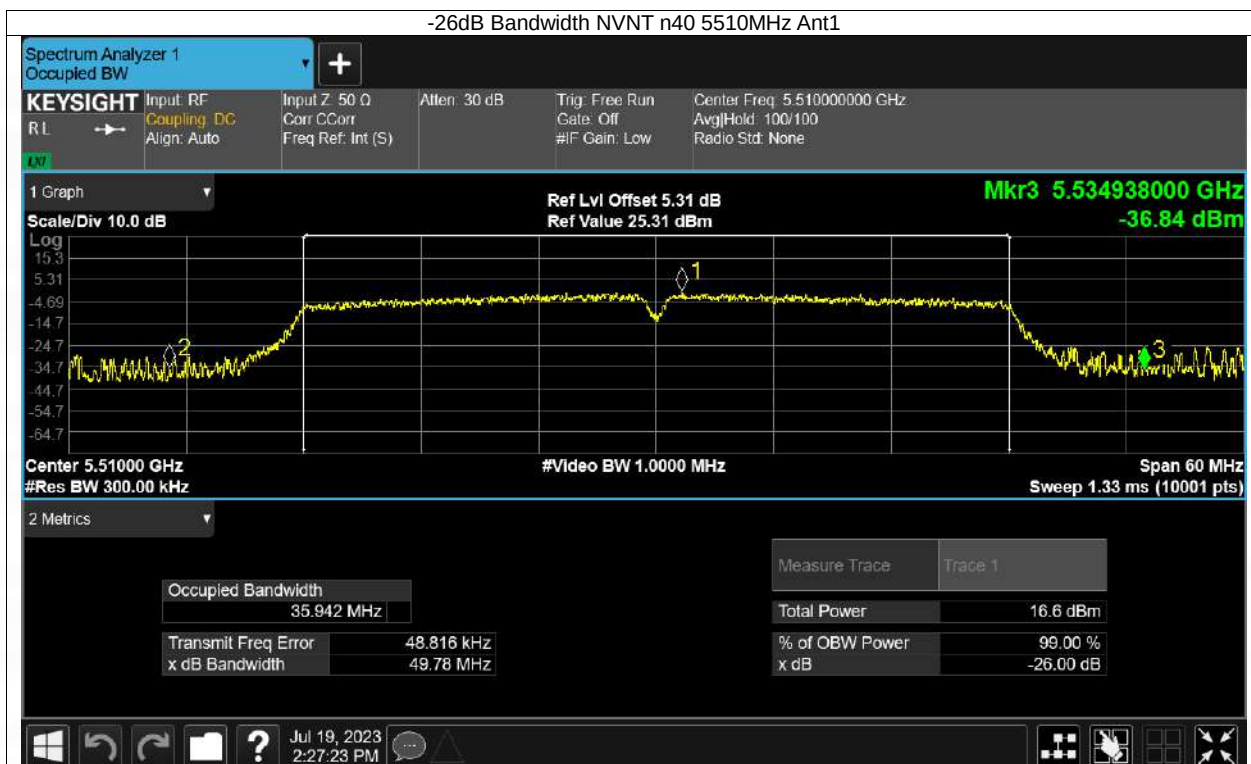


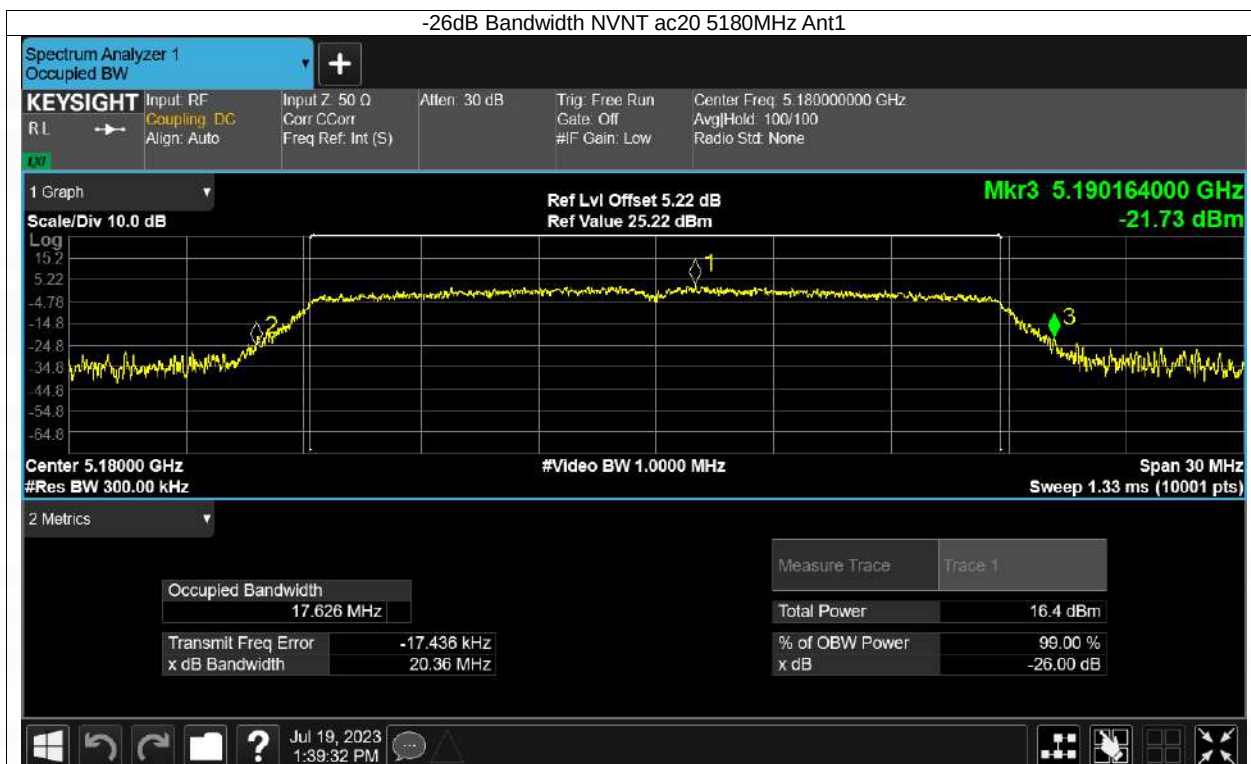




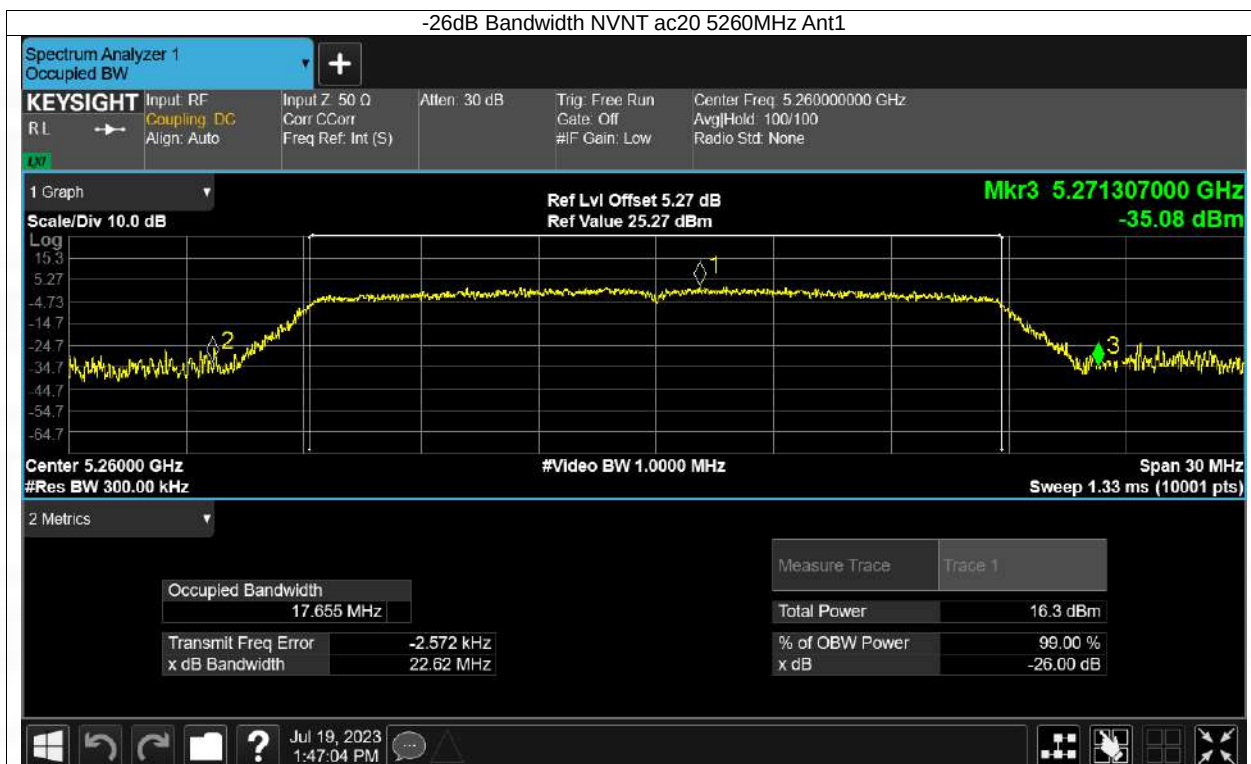






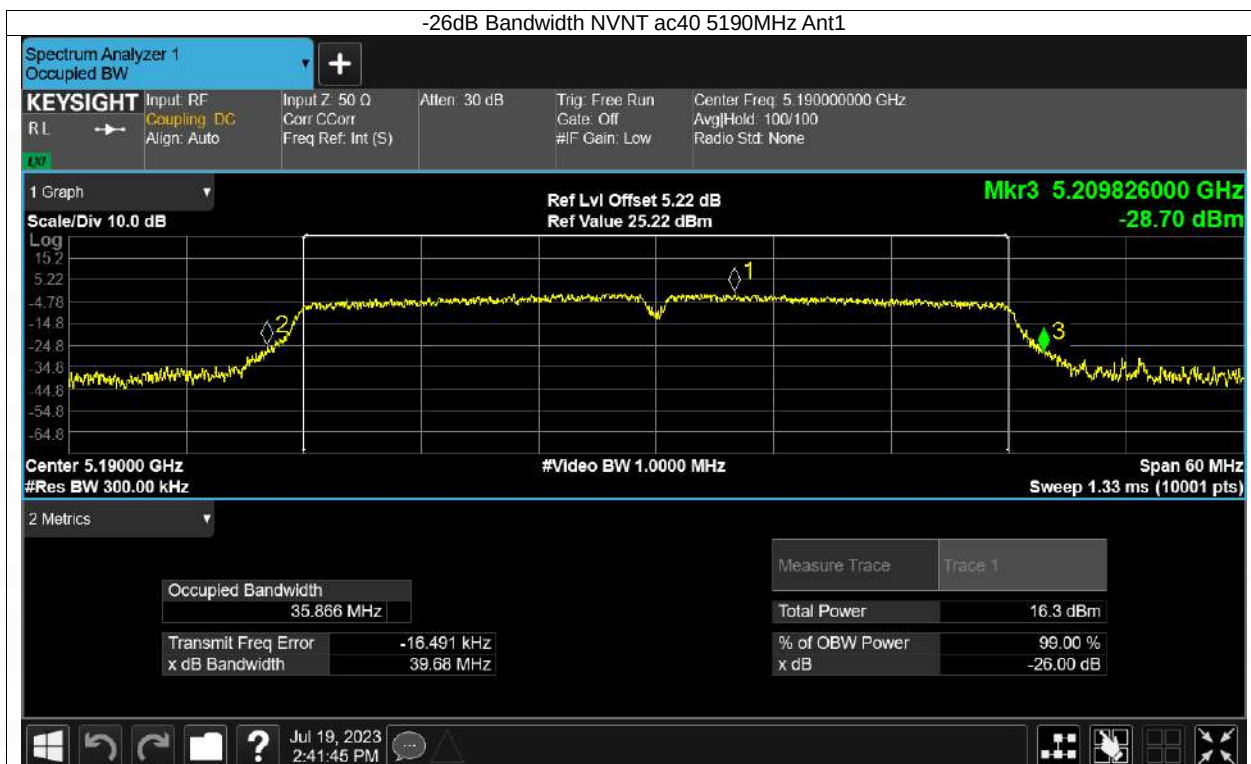


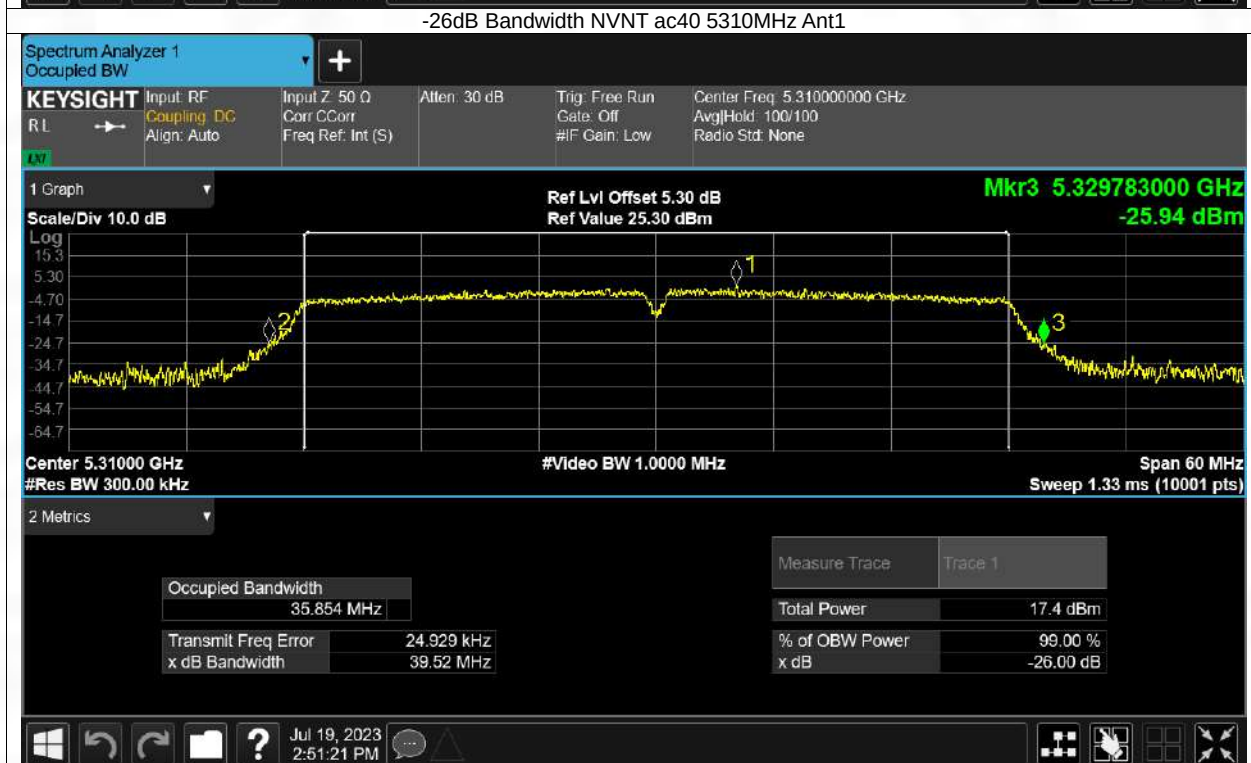






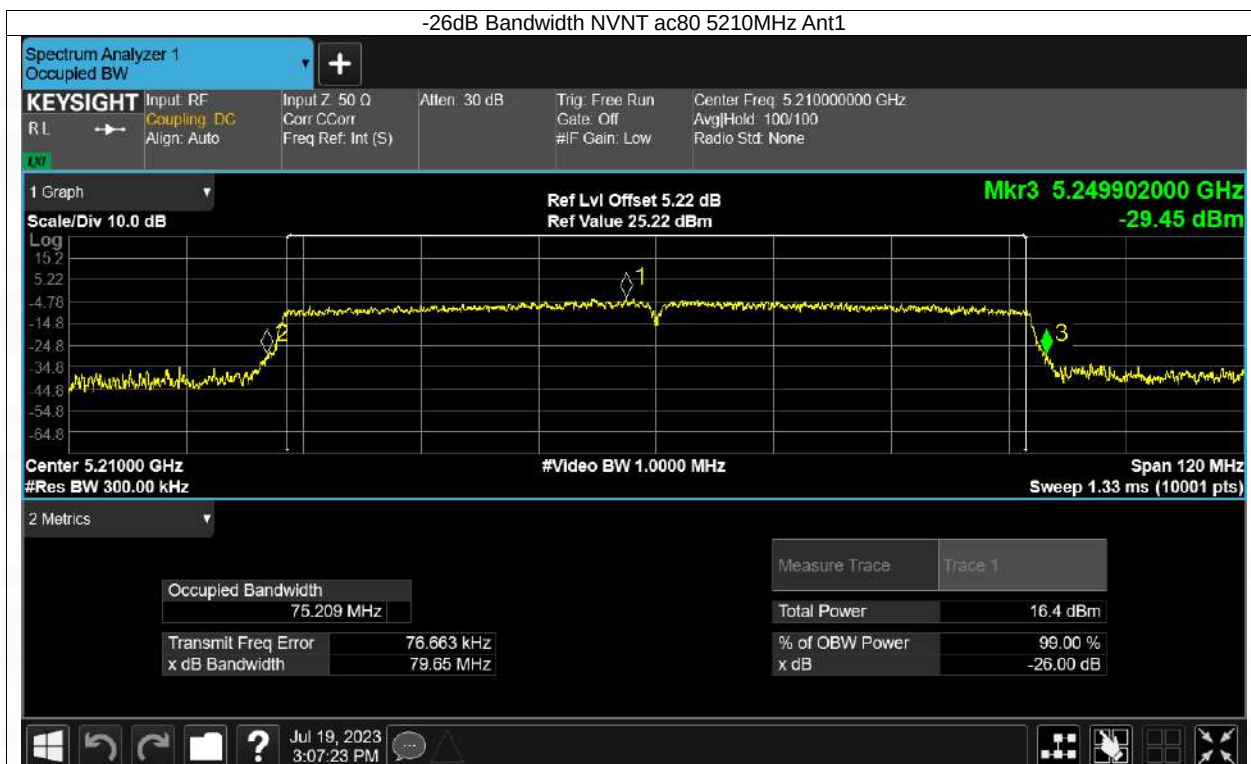




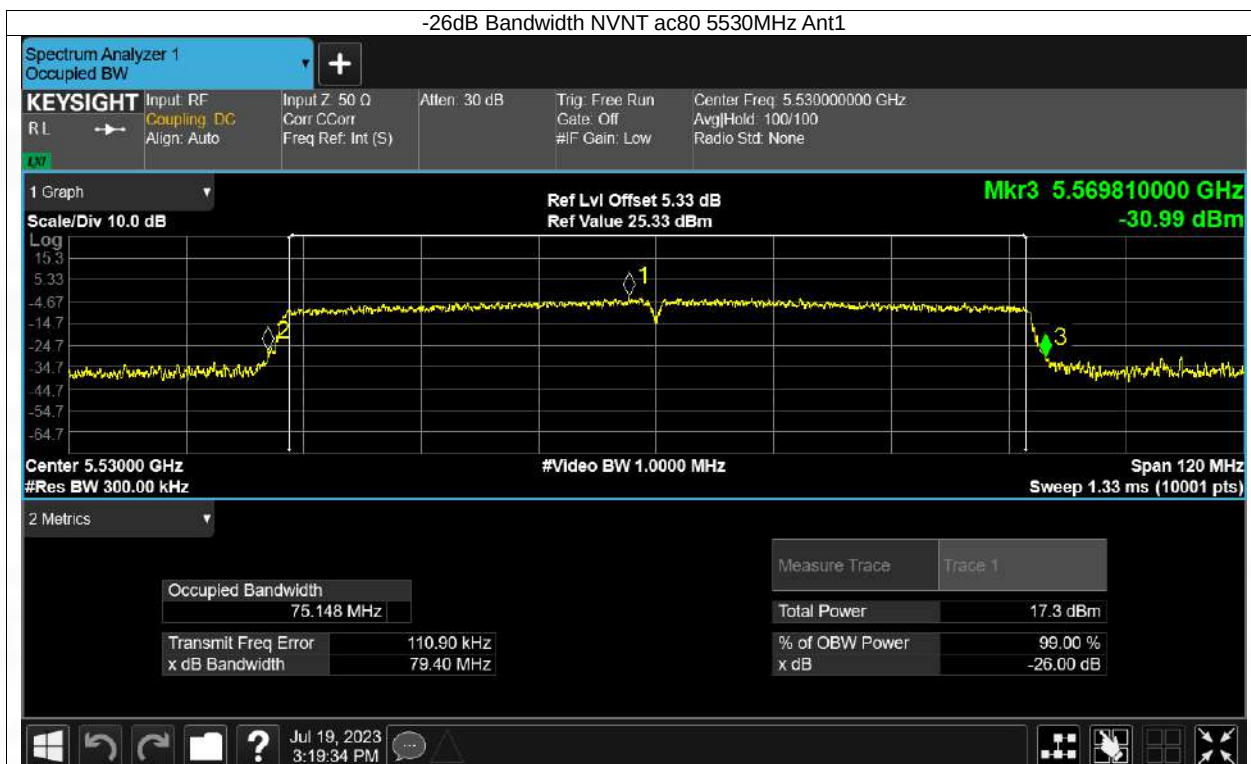




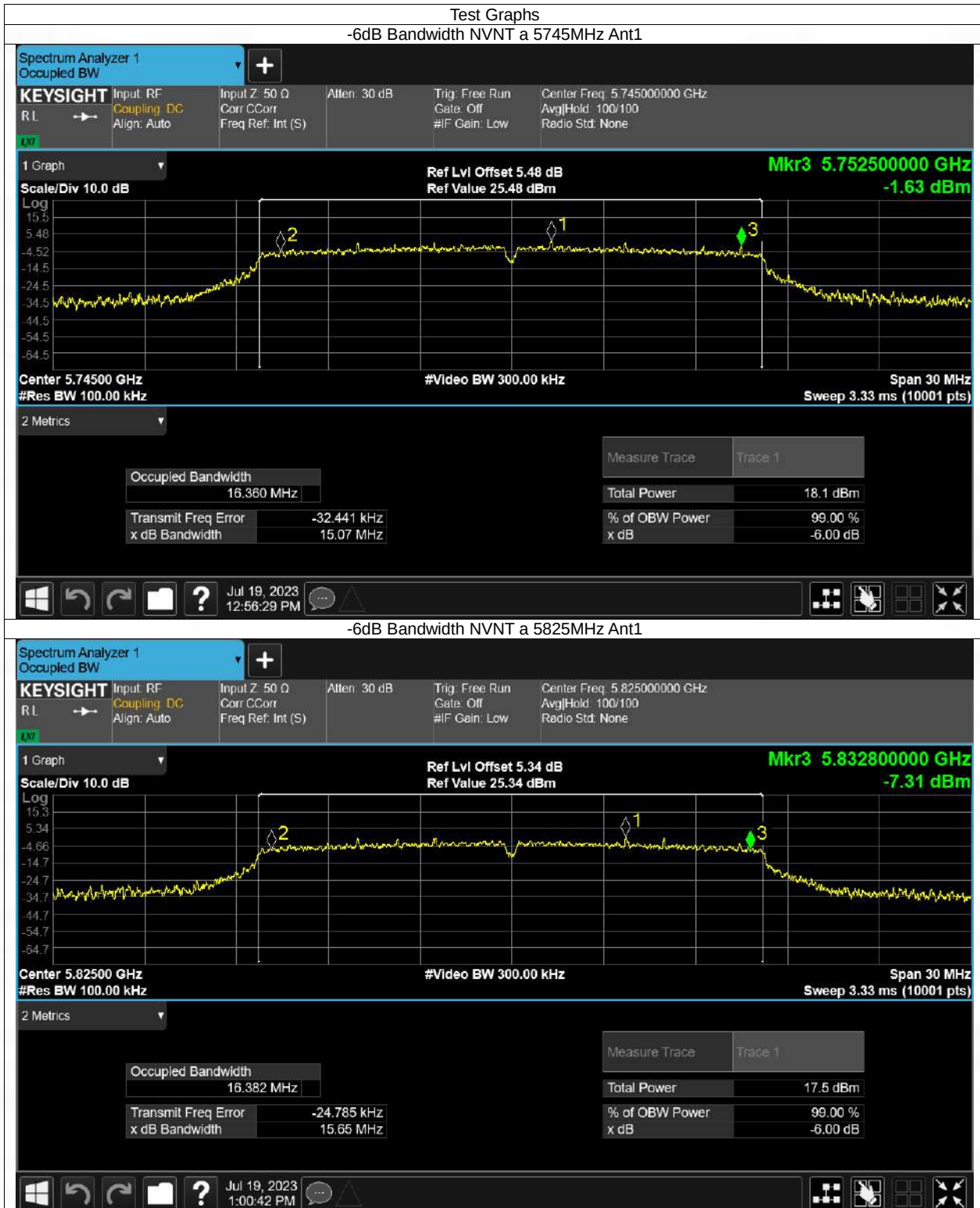


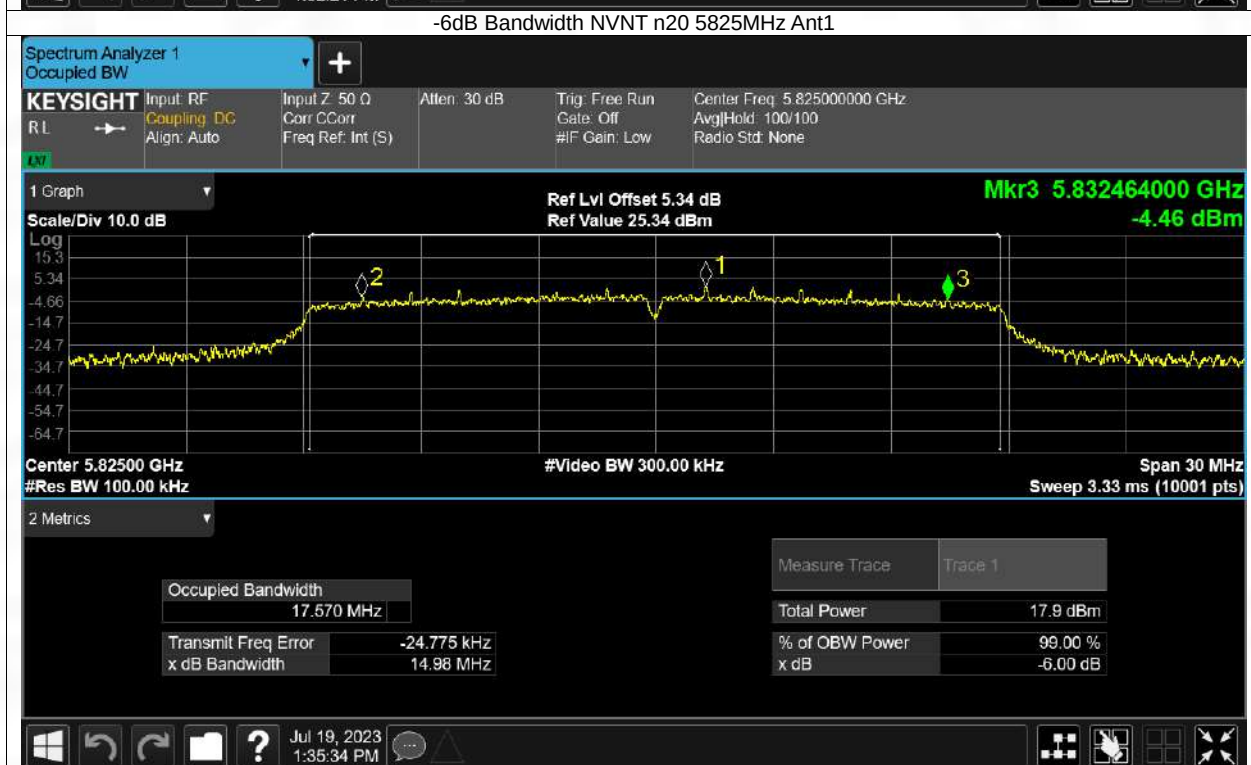
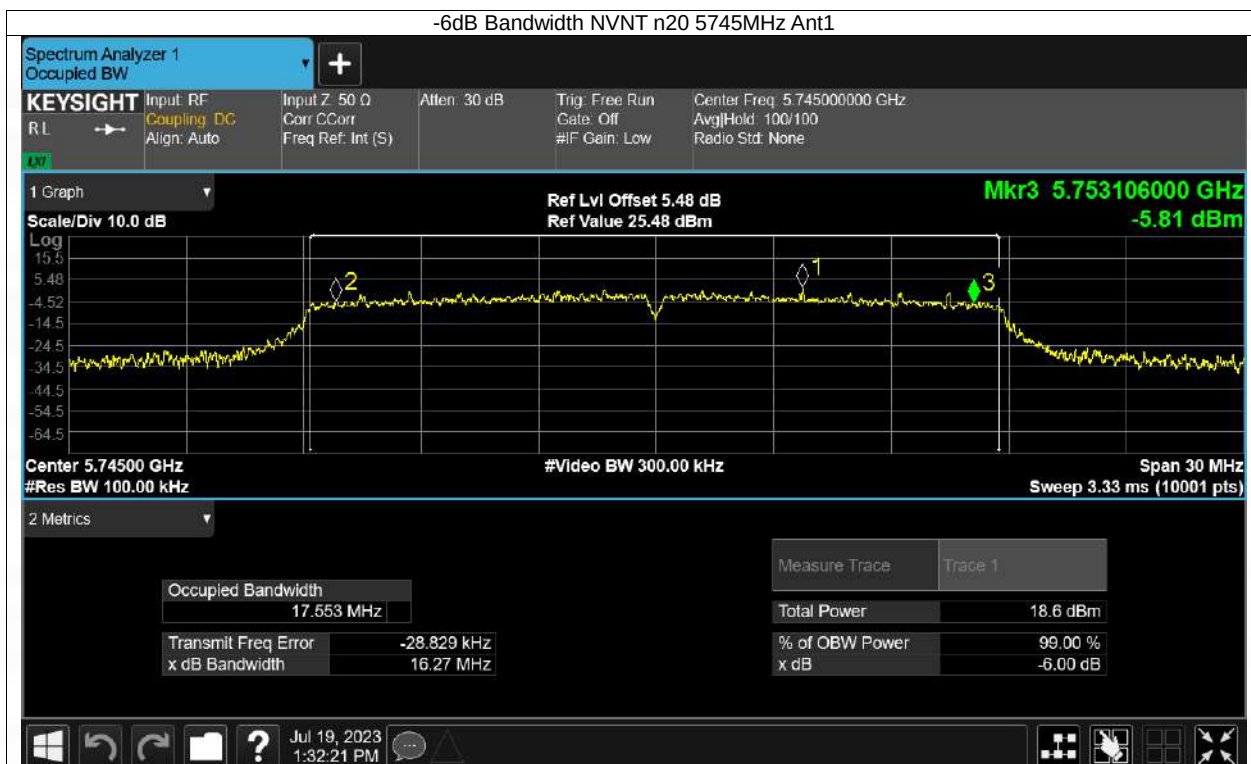


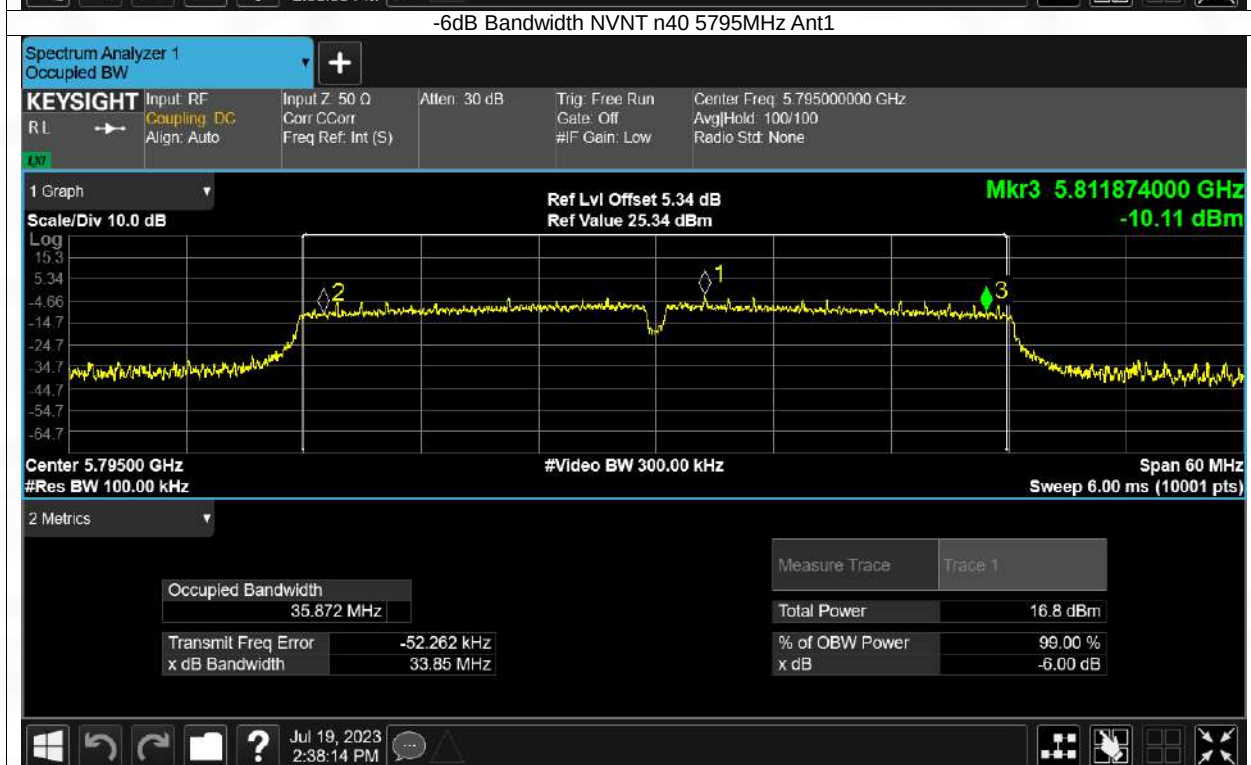
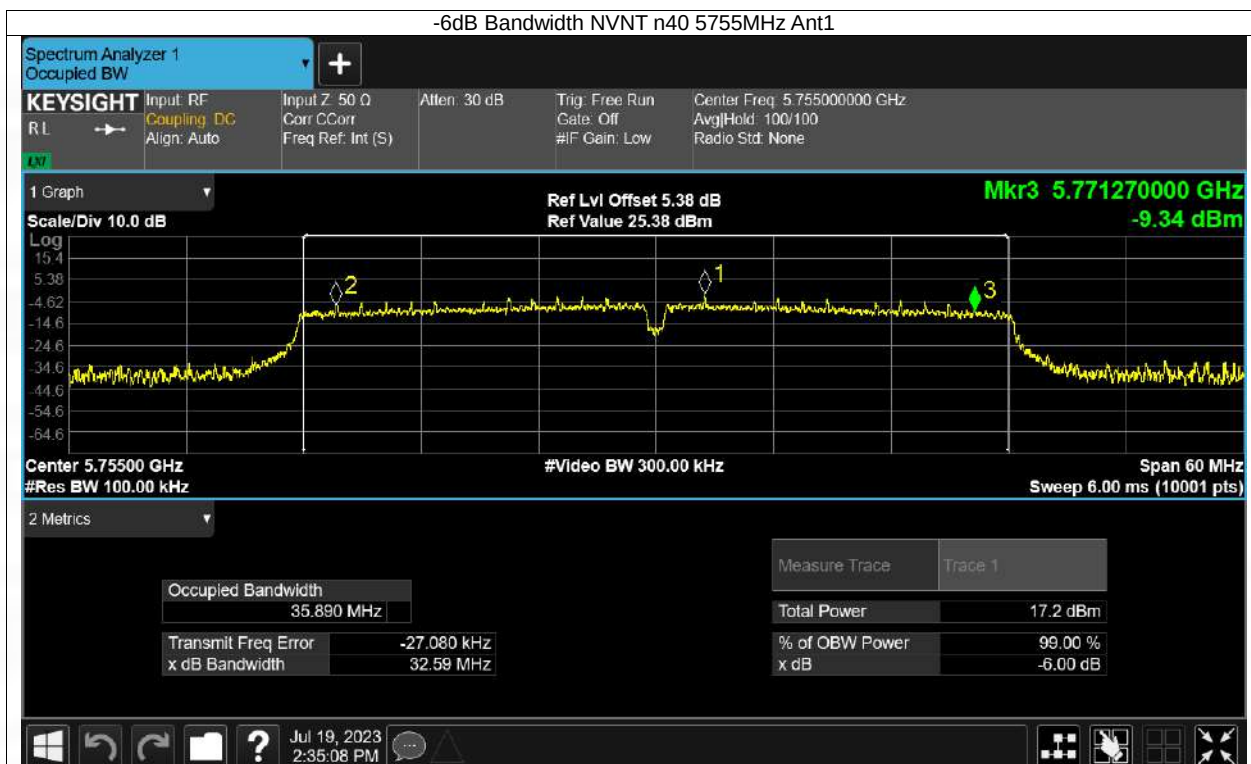




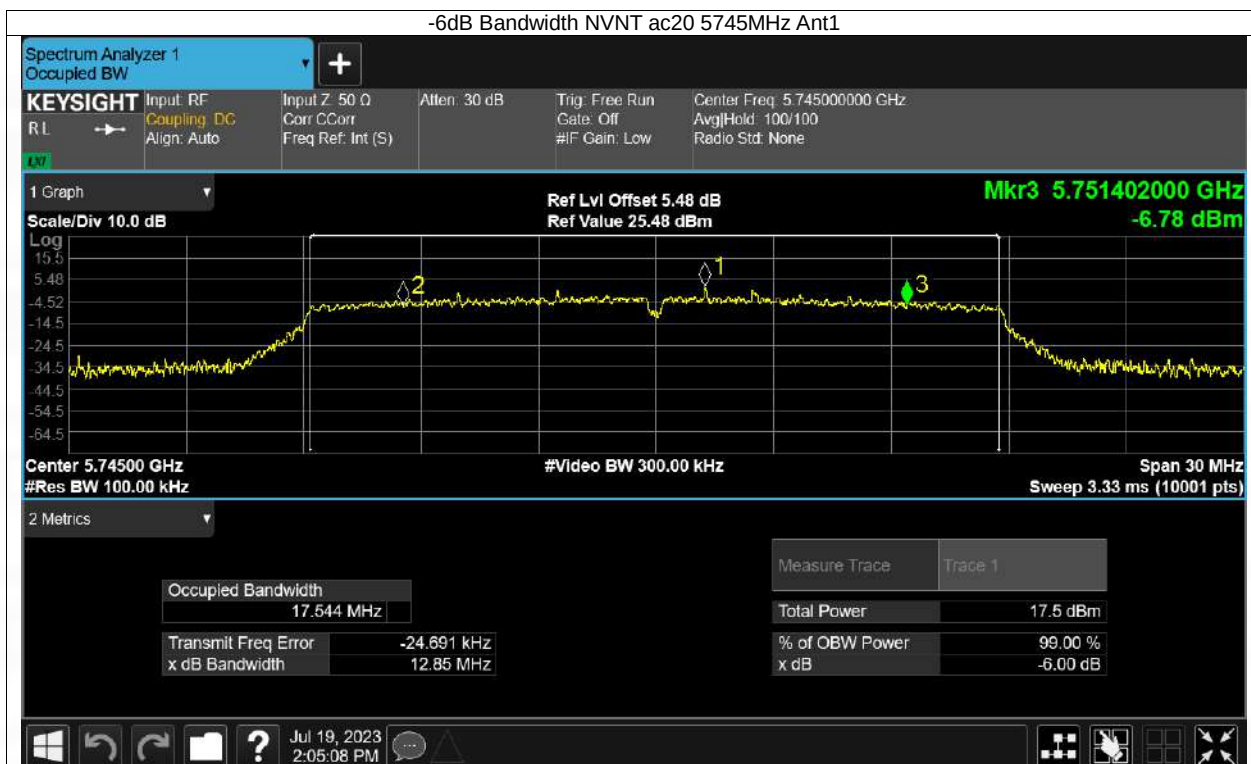
## -6dB Bandwidth

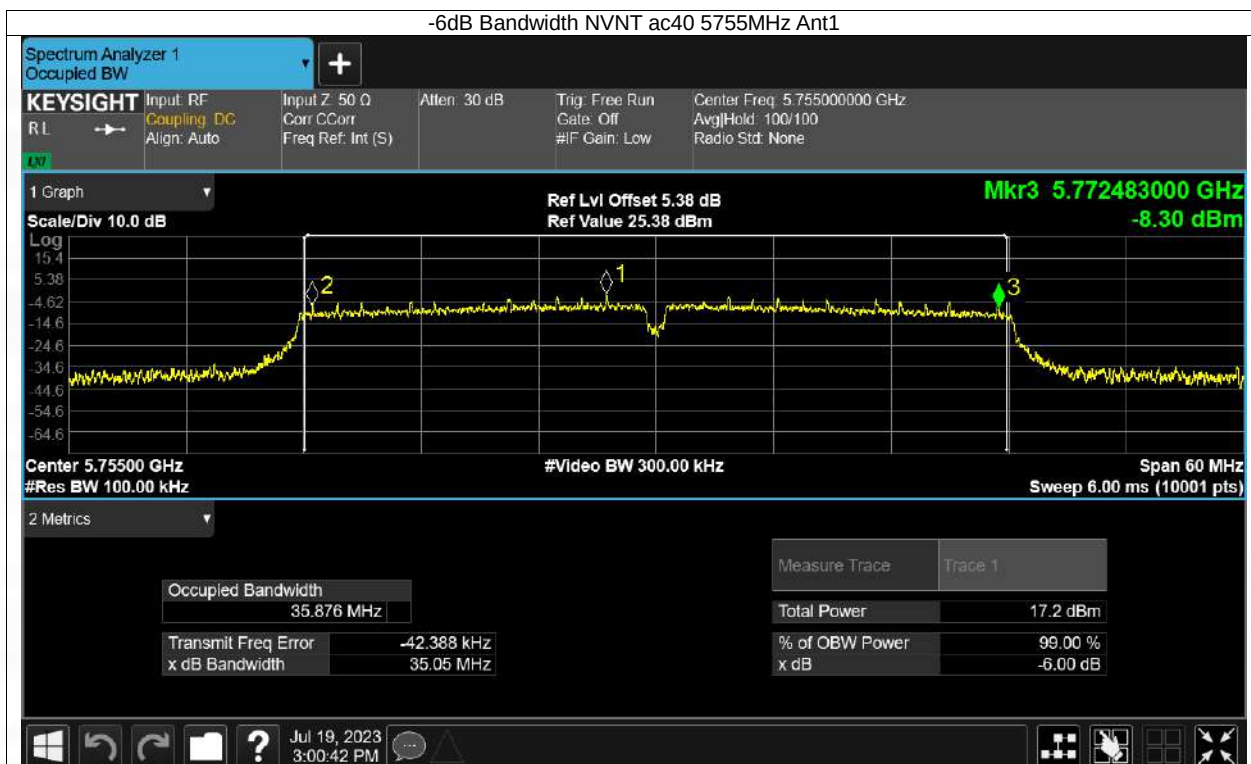


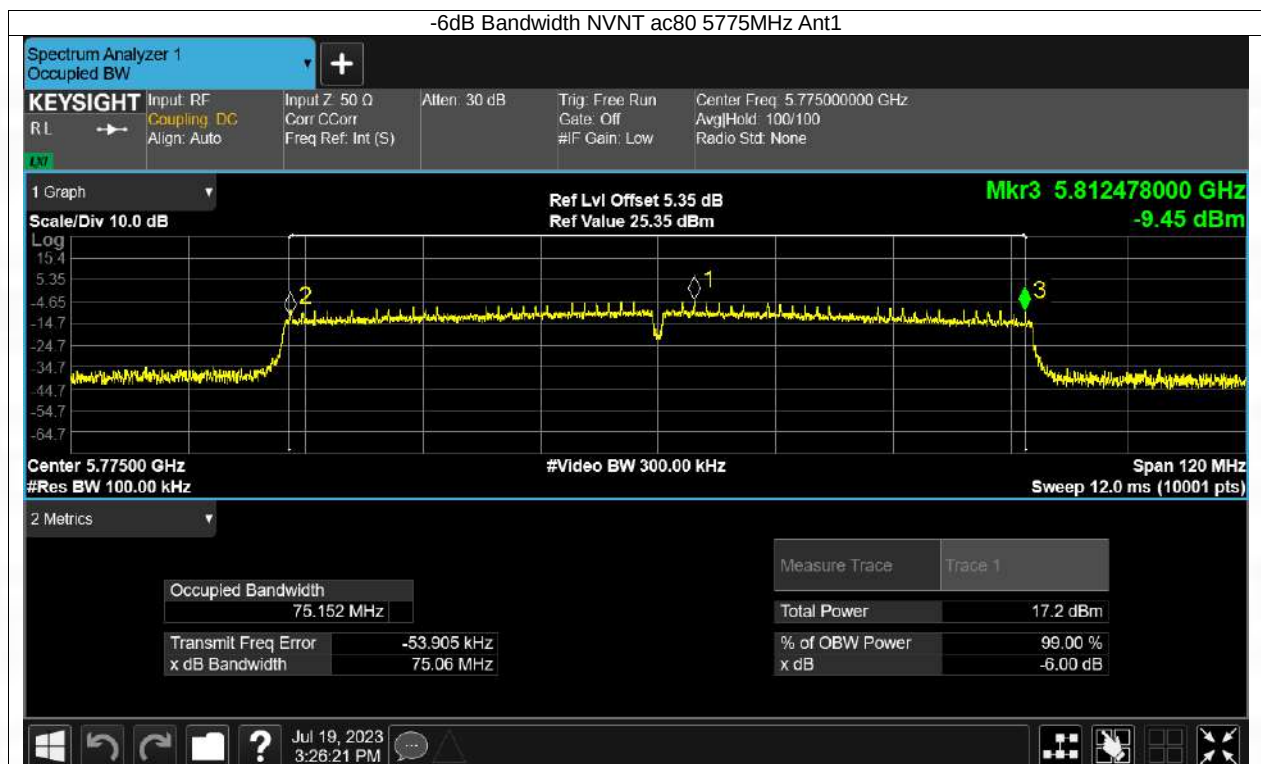












## 2. Maximum Conducted Output Power

### 2.1 Power

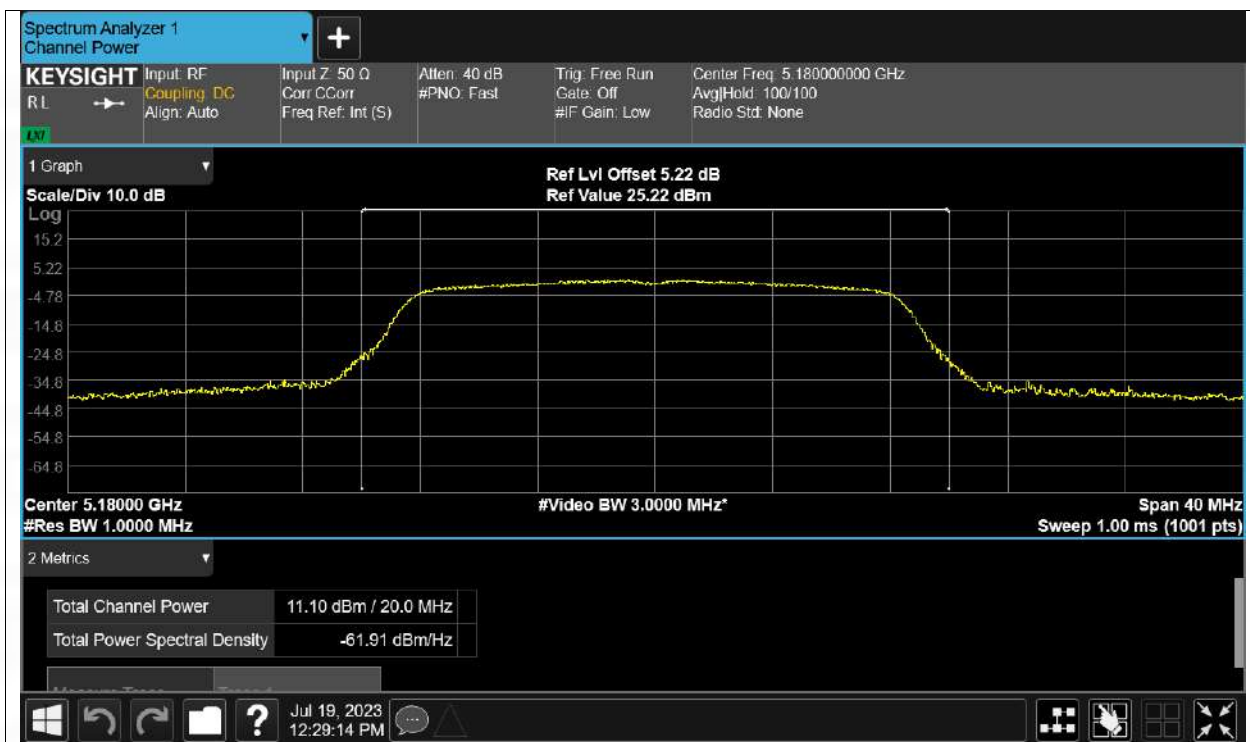
#### 2.1.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| a    | 5180            | Ant1    | 11.1                  | 0                | 11.1              | 24          | Pass    |
| a    | 5240            | Ant1    | 11.15                 | 0                | 11.15             | 24          | Pass    |
| a    | 5260            | Ant1    | 11.2                  | 0                | 11.2              | 24          | Pass    |
| a    | 5320            | Ant1    | 13.06                 | 0                | 13.06             | 24          | Pass    |
| a    | 5500            | Ant1    | 12.1                  | 0                | 12.1              | 24          | Pass    |
| a    | 5700            | Ant1    | 14.25                 | 0                | 14.25             | 24          | Pass    |
| a    | 5745            | Ant1    | 12.9                  | 0                | 12.9              | 30          | Pass    |
| a    | 5825            | Ant1    | 11.89                 | 0                | 11.89             | 30          | Pass    |
| n20  | 5180            | Ant1    | 11.87                 | 0                | 11.87             | 24          | Pass    |
| n20  | 5240            | Ant1    | 11.42                 | 0                | 11.42             | 24          | Pass    |
| n20  | 5260            | Ant1    | 11.52                 | 0                | 11.52             | 24          | Pass    |
| n20  | 5320            | Ant1    | 13.29                 | 0                | 13.29             | 24          | Pass    |
| n20  | 5500            | Ant1    | 12.35                 | 0                | 12.35             | 24          | Pass    |
| n20  | 5700            | Ant1    | 14.68                 | 0                | 14.68             | 24          | Pass    |
| n20  | 5745            | Ant1    | 13.28                 | 0                | 13.28             | 30          | Pass    |
| n20  | 5825            | Ant1    | 12.26                 | 0                | 12.26             | 30          | Pass    |
| n40  | 5190            | Ant1    | 10.41                 | 0                | 10.41             | 24          | Pass    |
| n40  | 5230            | Ant1    | 10.09                 | 0                | 10.09             | 24          | Pass    |
| n40  | 5270            | Ant1    | 10.41                 | 0                | 10.41             | 24          | Pass    |
| n40  | 5310            | Ant1    | 11.62                 | 0                | 11.62             | 24          | Pass    |
| n40  | 5510            | Ant1    | 10.76                 | 0                | 10.76             | 24          | Pass    |
| n40  | 5670            | Ant1    | 13.21                 | 0                | 13.21             | 24          | Pass    |
| n40  | 5755            | Ant1    | 11.57                 | 0                | 11.57             | 30          | Pass    |
| n40  | 5795            | Ant1    | 10.96                 | 0                | 10.96             | 30          | Pass    |
| ac20 | 5180            | Ant1    | 11                    | 0                | 11                | 24          | Pass    |
| ac20 | 5240            | Ant1    | 10.54                 | 0                | 10.54             | 24          | Pass    |
| ac20 | 5260            | Ant1    | 10.62                 | 0                | 10.62             | 24          | Pass    |
| ac20 | 5320            | Ant1    | 12.35                 | 0                | 12.35             | 24          | Pass    |
| ac20 | 5500            | Ant1    | 11.4                  | 0                | 11.4              | 24          | Pass    |
| ac20 | 5700            | Ant1    | 13.71                 | 0                | 13.71             | 24          | Pass    |
| ac20 | 5745            | Ant1    | 12.36                 | 0                | 12.36             | 30          | Pass    |
| ac20 | 5825            | Ant1    | 11.38                 | 0                | 11.38             | 30          | Pass    |
| ac40 | 5190            | Ant1    | 10.43                 | 0                | 10.43             | 24          | Pass    |
| ac40 | 5230            | Ant1    | 10.12                 | 0                | 10.12             | 24          | Pass    |
| ac40 | 5270            | Ant1    | 10.34                 | 0                | 10.34             | 24          | Pass    |
| ac40 | 5310            | Ant1    | 11.56                 | 0                | 11.56             | 24          | Pass    |
| ac40 | 5510            | Ant1    | 10.74                 | 0                | 10.74             | 24          | Pass    |
| ac40 | 5670            | Ant1    | 13.21                 | 0                | 13.21             | 24          | Pass    |
| ac40 | 5755            | Ant1    | 11.57                 | 0                | 11.57             | 30          | Pass    |
| ac40 | 5795            | Ant1    | 10.93                 | 0                | 10.93             | 30          | Pass    |
| ac80 | 5210            | Ant1    | 9.97                  | 0                | 9.97              | 24          | Pass    |
| ac80 | 5290            | Ant1    | 10.75                 | 0                | 10.75             | 24          | Pass    |
| ac80 | 5530            | Ant1    | 10.79                 | 0                | 10.79             | 24          | Pass    |
| ac80 | 5610            | Ant1    | 11.95                 | 0                | 11.95             | 24          | Pass    |
| ac80 | 5775            | Ant1    | 11.01                 | 0                | 11.01             | 30          | Pass    |

#### 2.1.2 Test Graph

|                           |
|---------------------------|
| Test Graphs               |
| Power NVNT a 5180MHz Ant1 |





Power NVNT a 5240MHz Ant1

