

### 3. Maximum Power Spectral Density

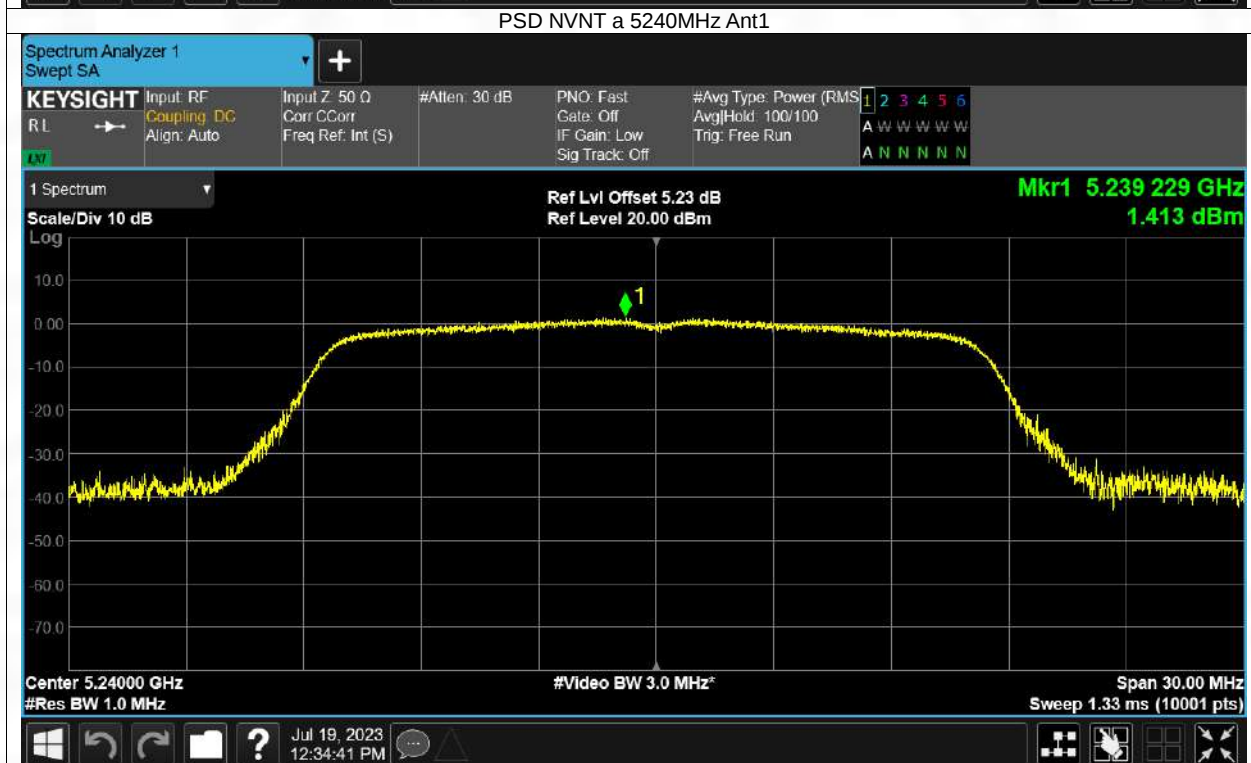
#### 3.1 PSD

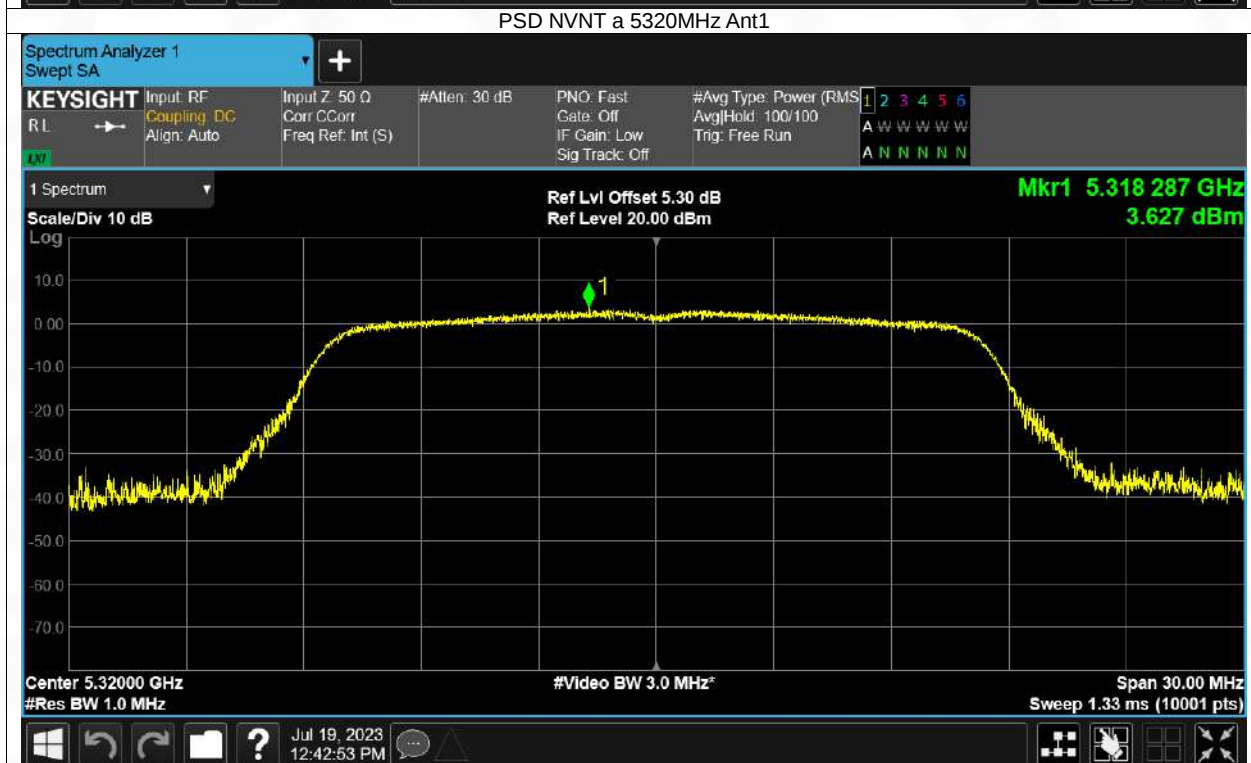
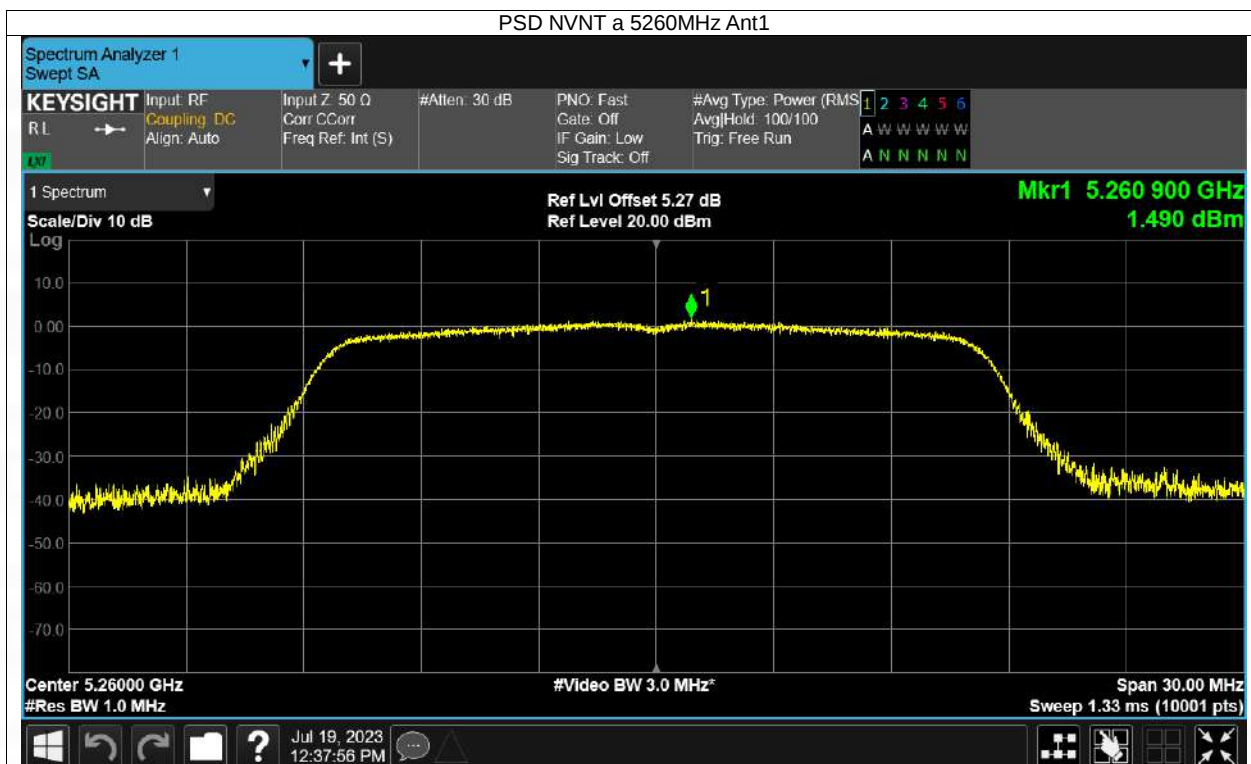
##### 3.1.1 Test Result

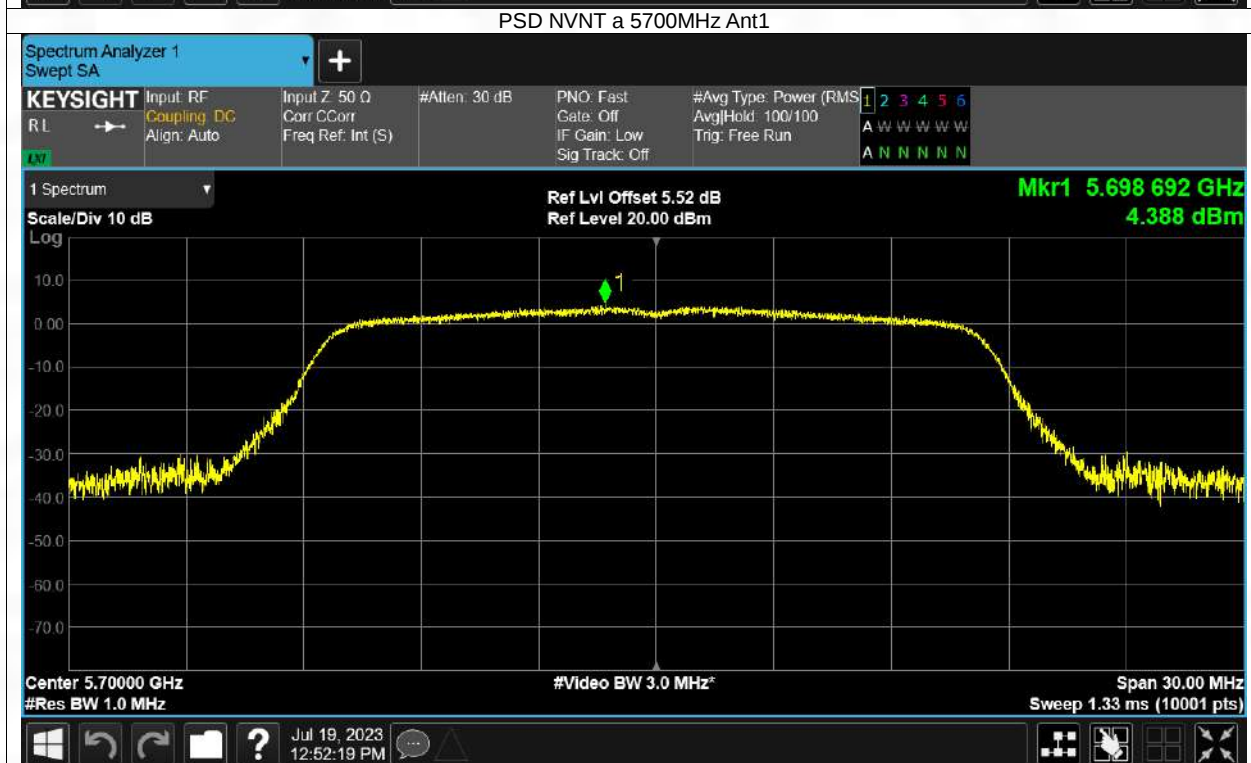
| Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| a    | 5180            | Ant1    | 1.26                | 0                | 1.26            | 11          | Pass    |
| a    | 5240            | Ant1    | 1.41                | 0                | 1.41            | 11          | Pass    |
| a    | 5260            | Ant1    | 1.49                | 0                | 1.49            | 11          | Pass    |
| a    | 5320            | Ant1    | 3.63                | 0                | 3.63            | 11          | Pass    |
| a    | 5500            | Ant1    | 2.47                | 0                | 2.47            | 11          | Pass    |
| a    | 5700            | Ant1    | 4.39                | 0                | 4.39            | 11          | Pass    |
| a    | 5745            | Ant1    | 0.13                | 0                | 0.13            | 30          | Pass    |
| a    | 5825            | Ant1    | -0.84               | 0                | -0.84           | 30          | Pass    |
| n20  | 5180            | Ant1    | 2.13                | 0                | 2.13            | 11          | Pass    |
| n20  | 5240            | Ant1    | 1.39                | 0                | 1.39            | 11          | Pass    |
| n20  | 5260            | Ant1    | 1.68                | 0                | 1.68            | 11          | Pass    |
| n20  | 5320            | Ant1    | 3.43                | 0                | 3.43            | 11          | Pass    |
| n20  | 5500            | Ant1    | 2.58                | 0                | 2.58            | 11          | Pass    |
| n20  | 5700            | Ant1    | 4.55                | 0                | 4.55            | 11          | Pass    |
| n20  | 5745            | Ant1    | 0.02                | 0                | 0.02            | 30          | Pass    |
| n20  | 5825            | Ant1    | -0.74               | 0                | -0.74           | 30          | Pass    |
| n40  | 5190            | Ant1    | -2.38               | 0                | -2.38           | 11          | Pass    |
| n40  | 5230            | Ant1    | -2.44               | 0                | -2.44           | 11          | Pass    |
| n40  | 5270            | Ant1    | -2.09               | 0                | -2.09           | 11          | Pass    |
| n40  | 5310            | Ant1    | -1.39               | 0                | -1.39           | 11          | Pass    |
| n40  | 5510            | Ant1    | -2.09               | 0                | -2.09           | 11          | Pass    |
| n40  | 5670            | Ant1    | 0.25                | 0                | 0.25            | 11          | Pass    |
| n40  | 5755            | Ant1    | -4.41               | 0                | -4.41           | 30          | Pass    |
| n40  | 5795            | Ant1    | -4.71               | 0                | -4.71           | 30          | Pass    |
| ac20 | 5180            | Ant1    | 0.88                | 0                | 0.88            | 11          | Pass    |
| ac20 | 5240            | Ant1    | 0.63                | 0                | 0.63            | 11          | Pass    |
| ac20 | 5260            | Ant1    | 0.96                | 0                | 0.96            | 11          | Pass    |
| ac20 | 5320            | Ant1    | 2.57                | 0                | 2.57            | 11          | Pass    |
| ac20 | 5500            | Ant1    | 1.66                | 0                | 1.66            | 11          | Pass    |
| ac20 | 5700            | Ant1    | 3.57                | 0                | 3.57            | 11          | Pass    |
| ac20 | 5745            | Ant1    | -0.68               | 0                | -0.68           | 30          | Pass    |
| ac20 | 5825            | Ant1    | -1.81               | 0                | -1.81           | 30          | Pass    |
| ac40 | 5190            | Ant1    | -2.24               | 0                | -2.24           | 11          | Pass    |
| ac40 | 5230            | Ant1    | -2.12               | 0                | -2.12           | 11          | Pass    |
| ac40 | 5270            | Ant1    | -2.14               | 0                | -2.14           | 11          | Pass    |
| ac40 | 5310            | Ant1    | -1.19               | 0                | -1.19           | 11          | Pass    |
| ac40 | 5510            | Ant1    | -1.98               | 0                | -1.98           | 11          | Pass    |
| ac40 | 5670            | Ant1    | 0.38                | 0                | 0.38            | 11          | Pass    |
| ac40 | 5755            | Ant1    | -4.46               | 0                | -4.46           | 30          | Pass    |
| ac40 | 5795            | Ant1    | -5.02               | 0                | -5.02           | 30          | Pass    |
| ac80 | 5210            | Ant1    | -5.88               | 0                | -5.88           | 11          | Pass    |
| ac80 | 5290            | Ant1    | -4.76               | 0                | -4.76           | 11          | Pass    |
| ac80 | 5530            | Ant1    | -4.77               | 0                | -4.77           | 11          | Pass    |
| ac80 | 5610            | Ant1    | -3.62               | 0                | -3.62           | 11          | Pass    |
| ac80 | 5775            | Ant1    | -7.53               | 0                | -7.53           | 30          | Pass    |

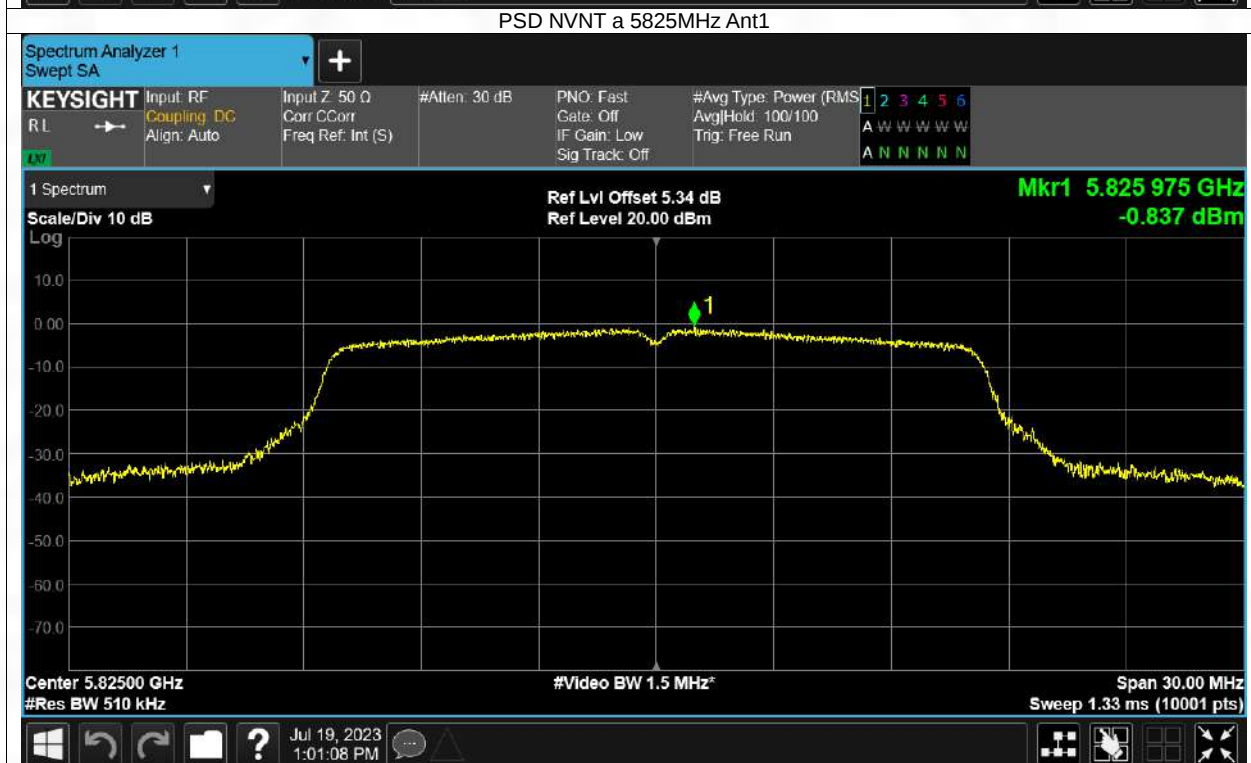
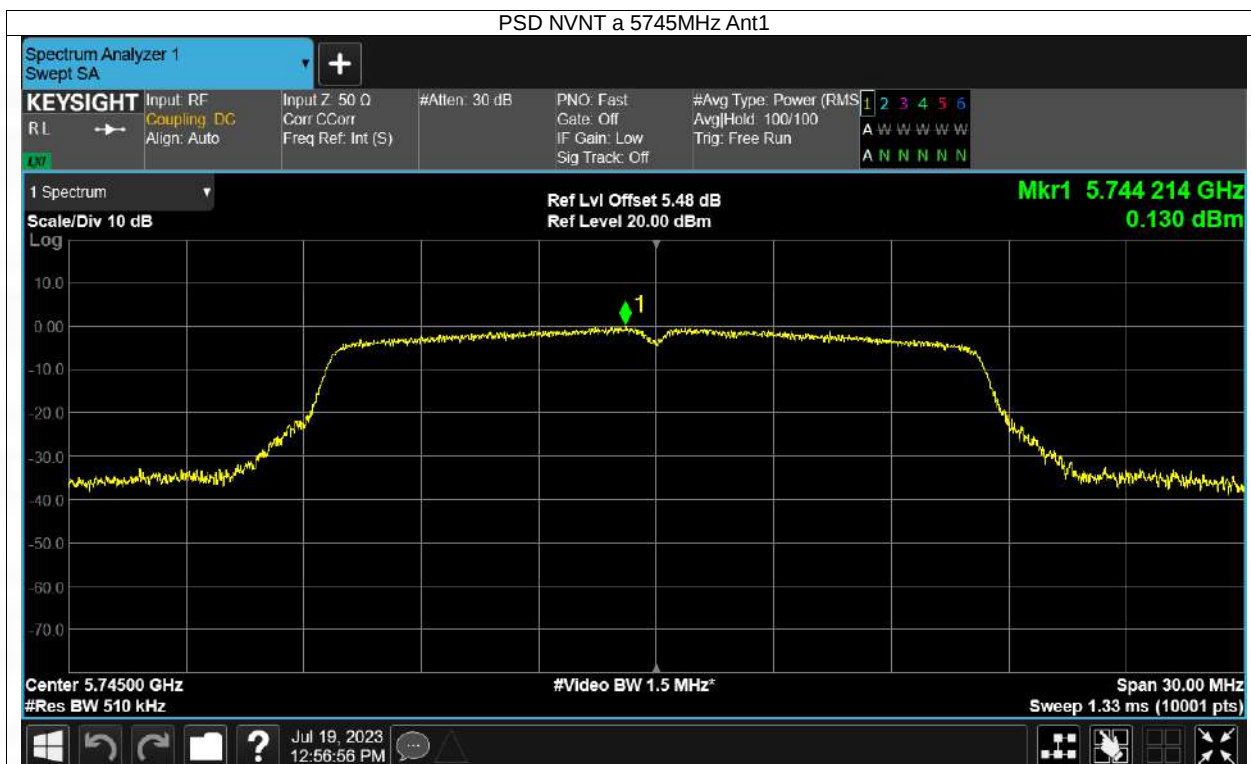
##### 3.1.2 Test Graph

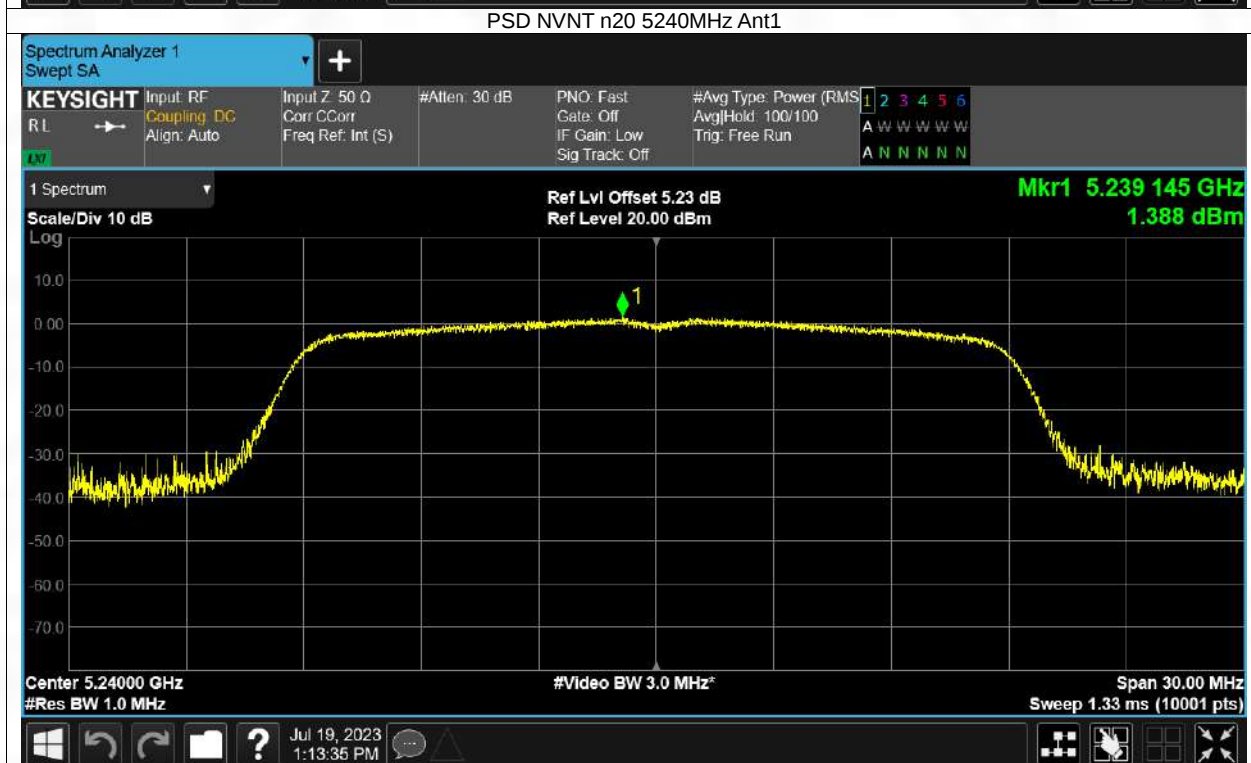
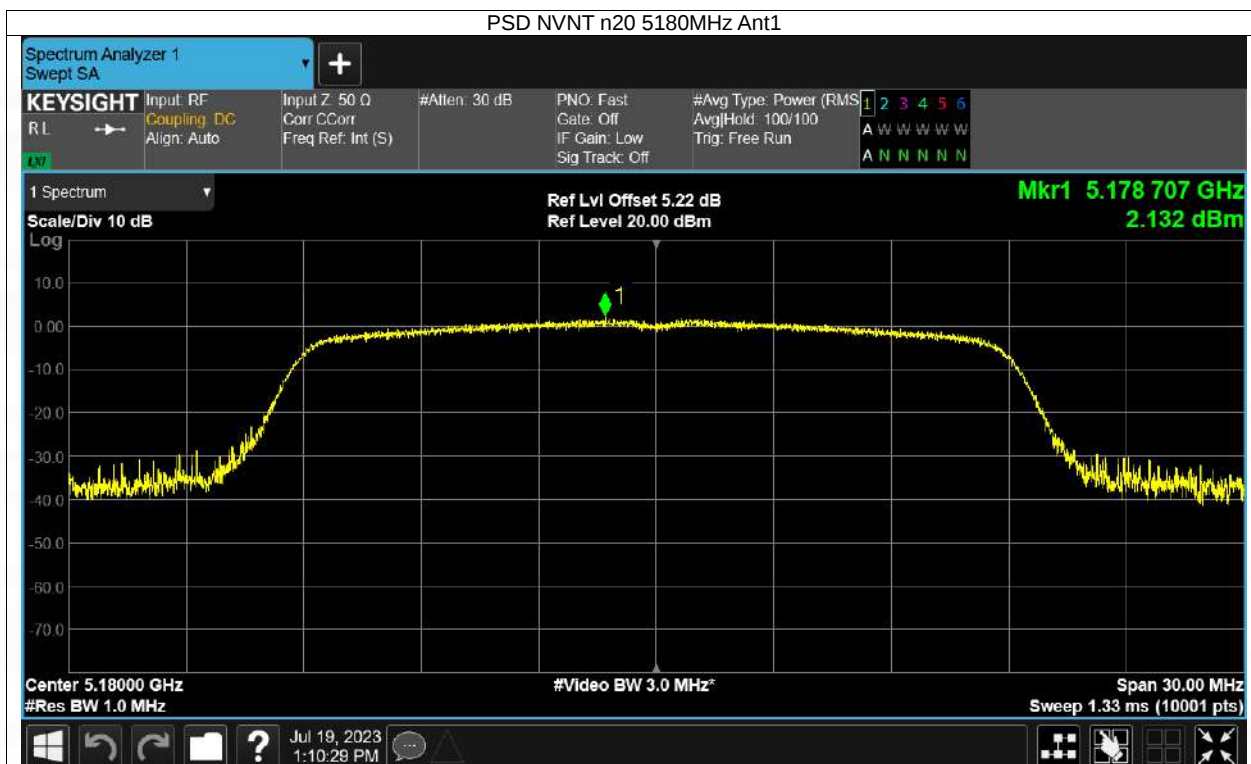
Test Graphs

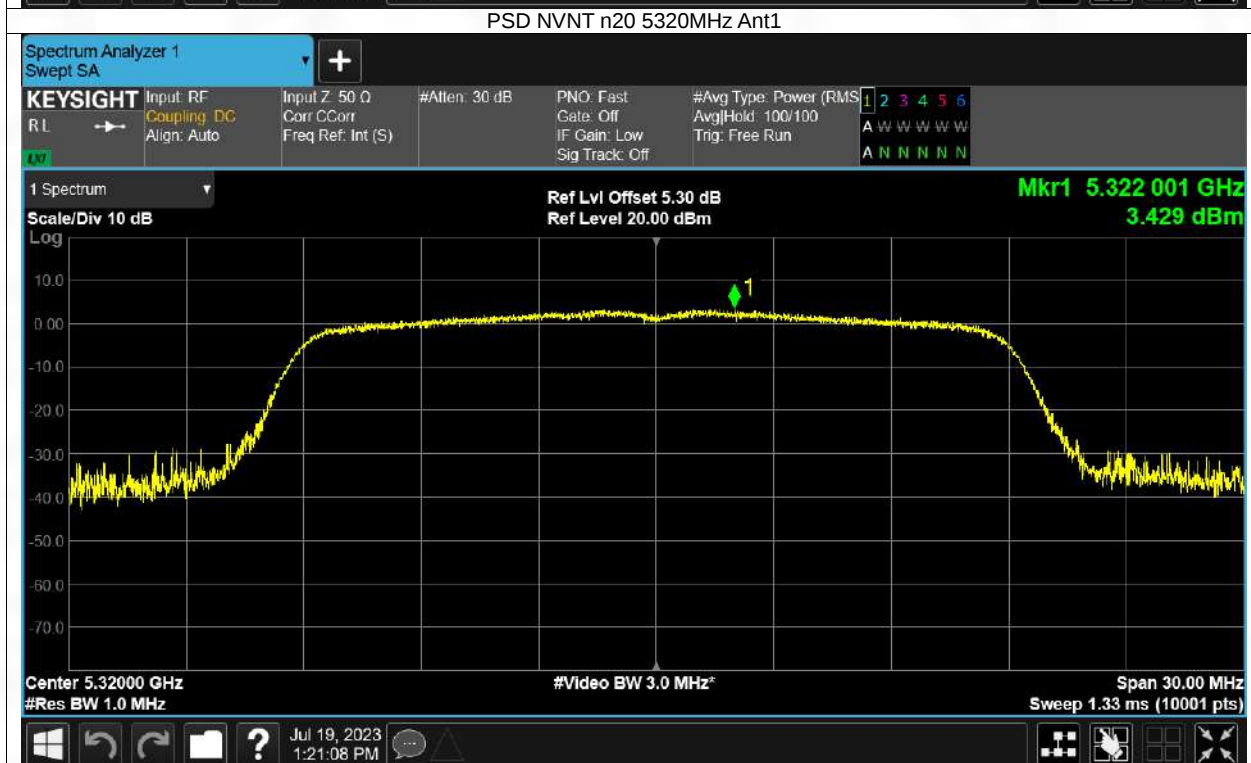
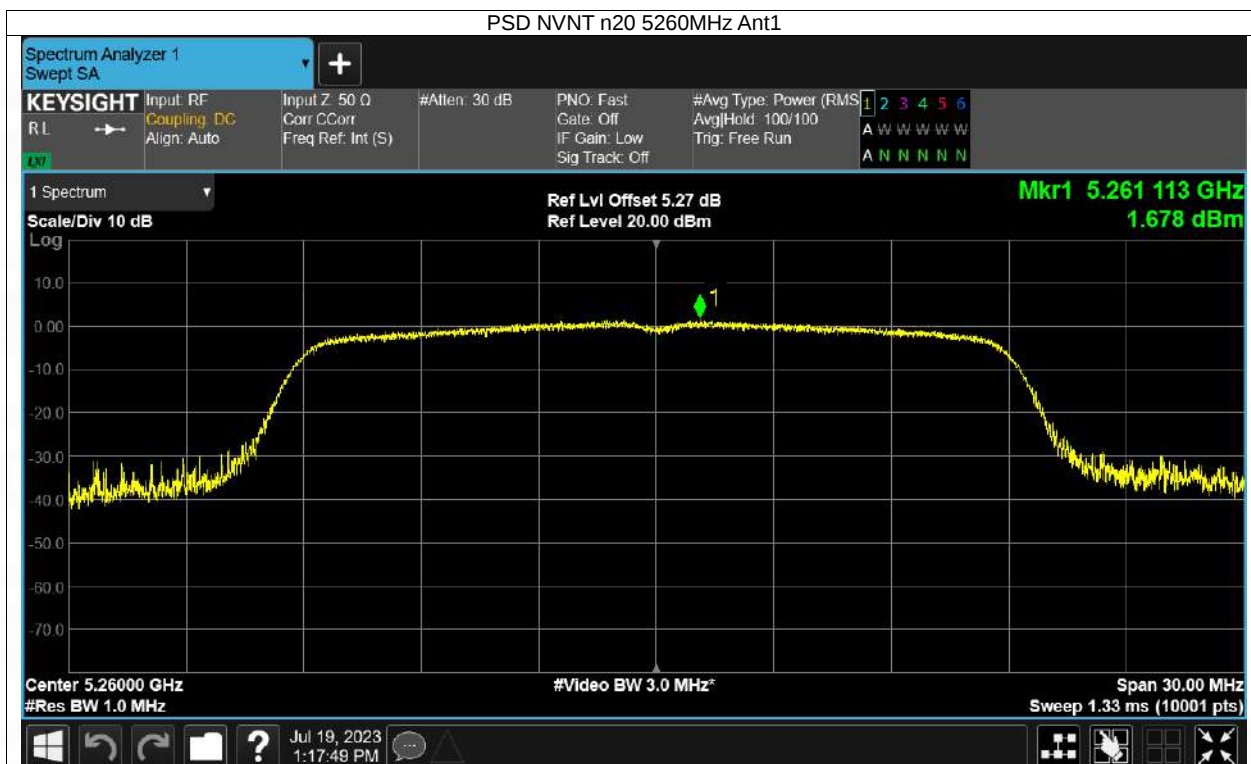


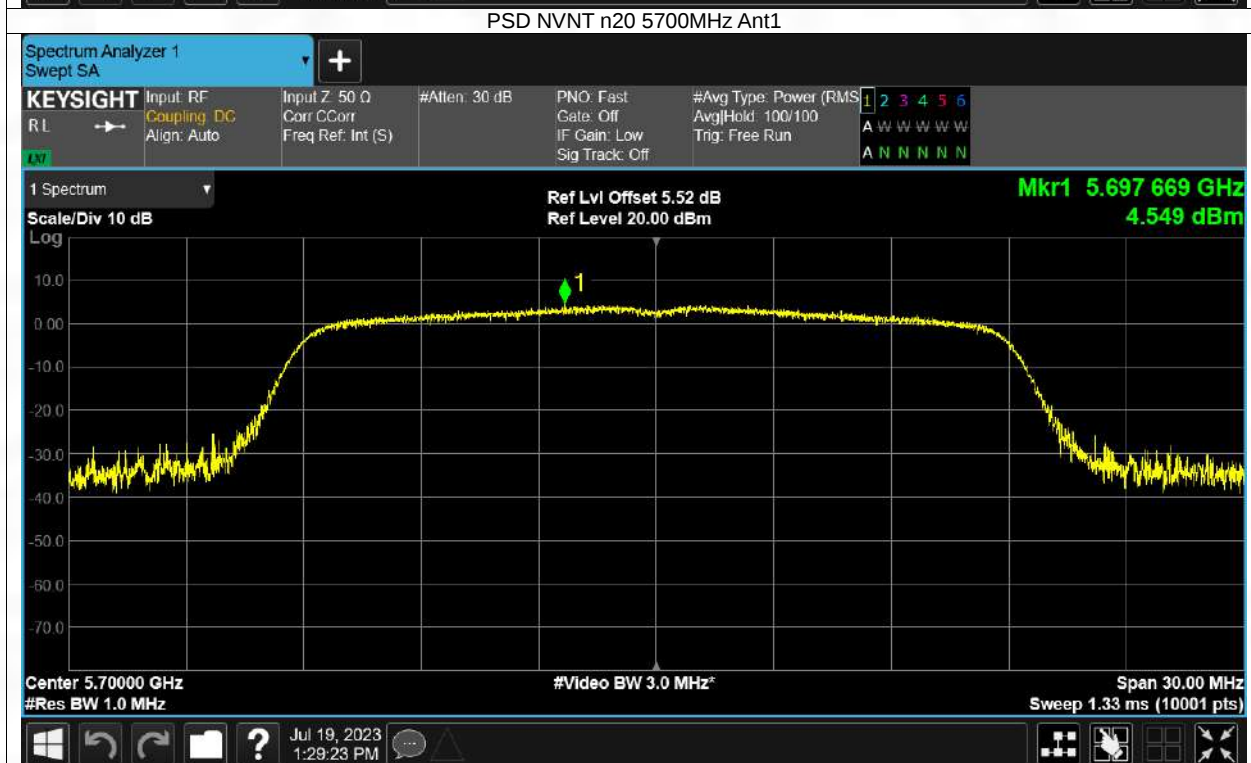
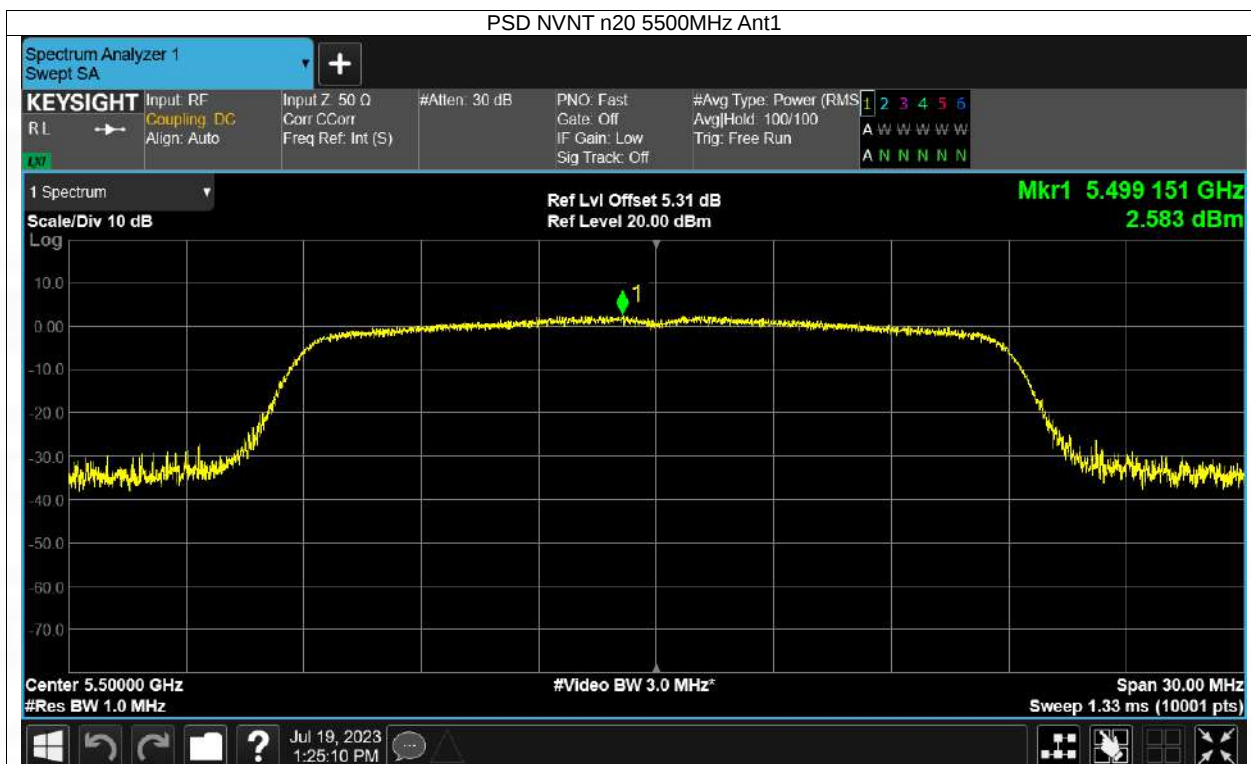


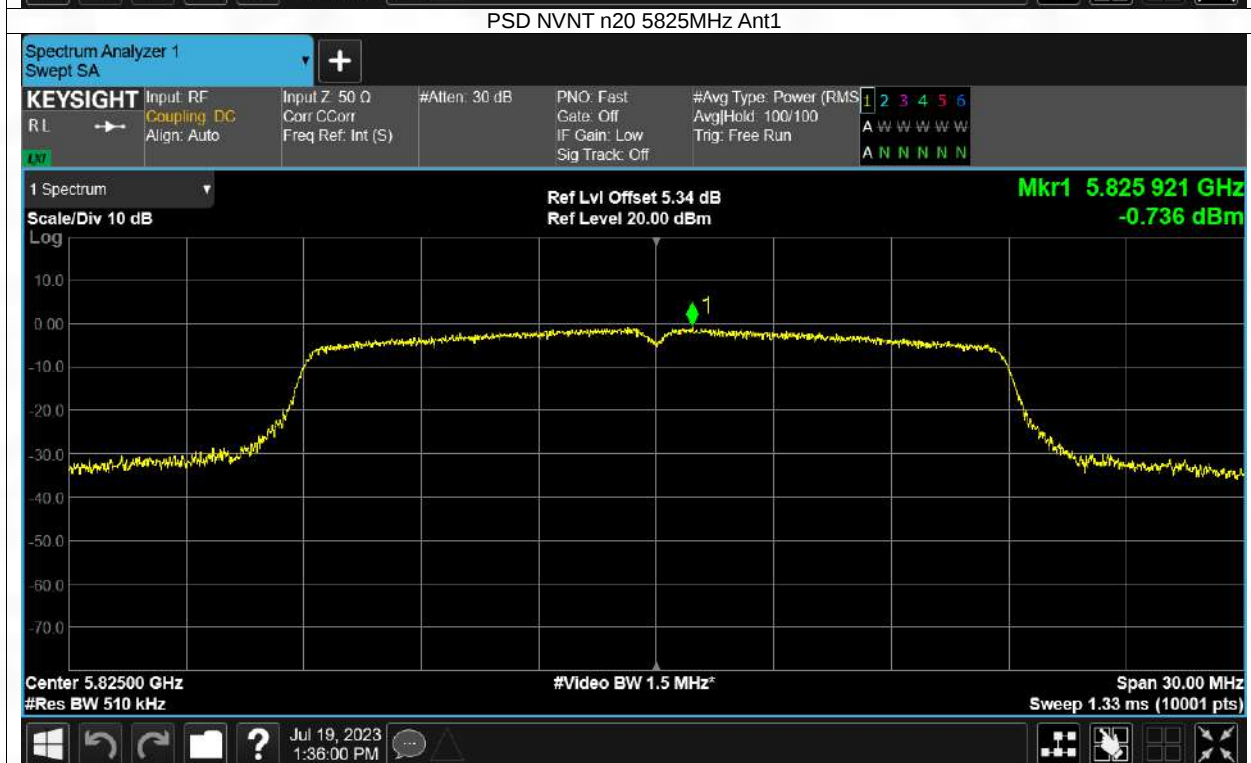
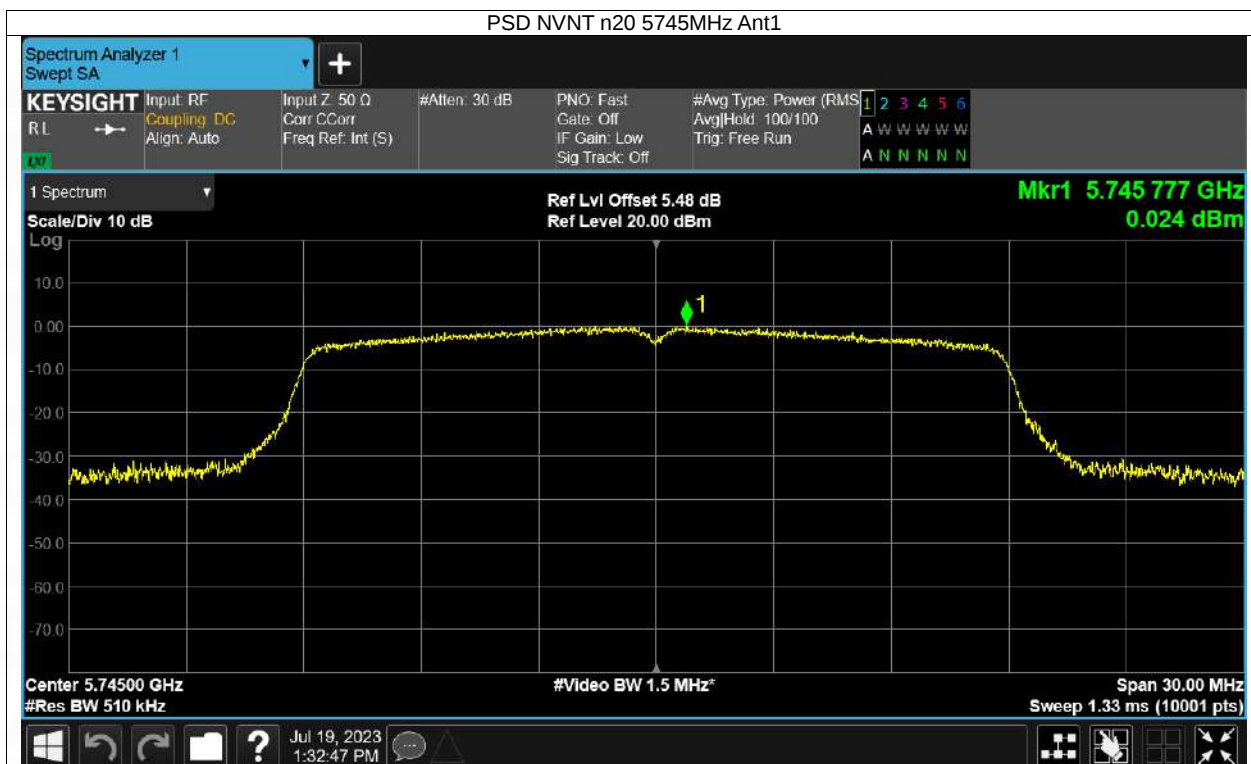


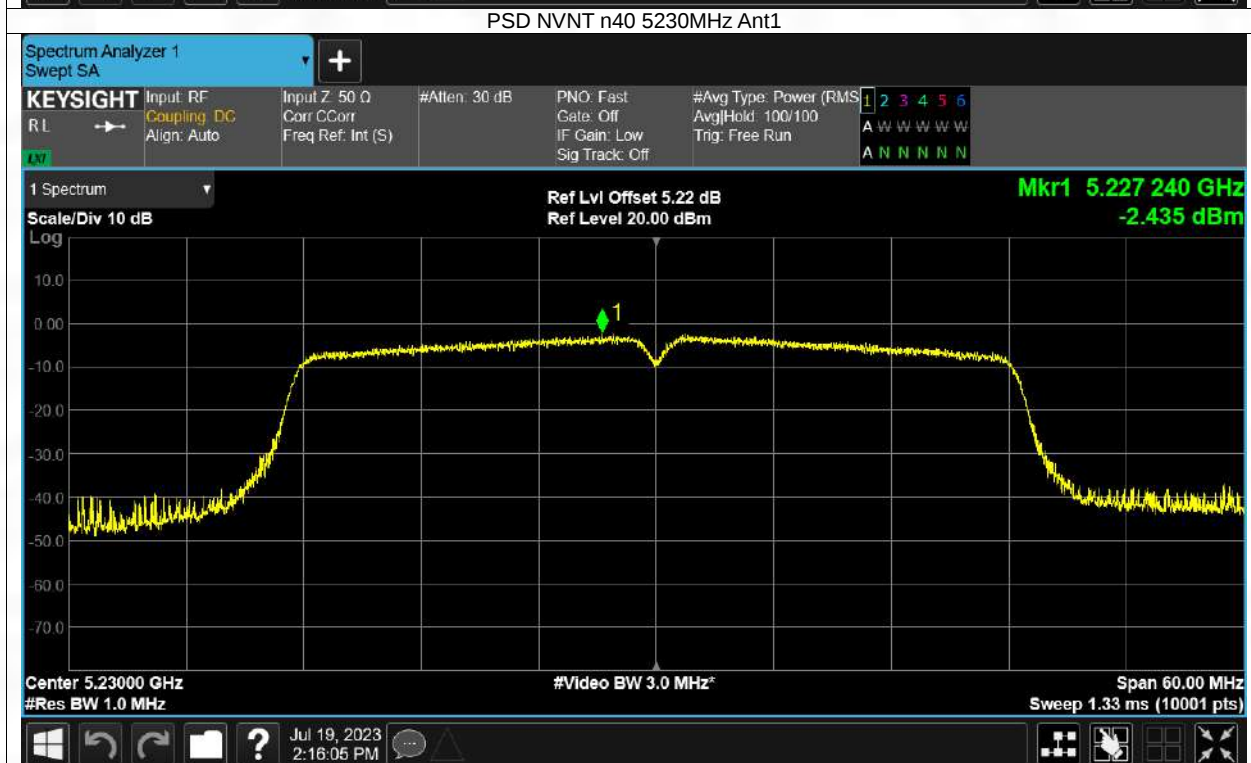
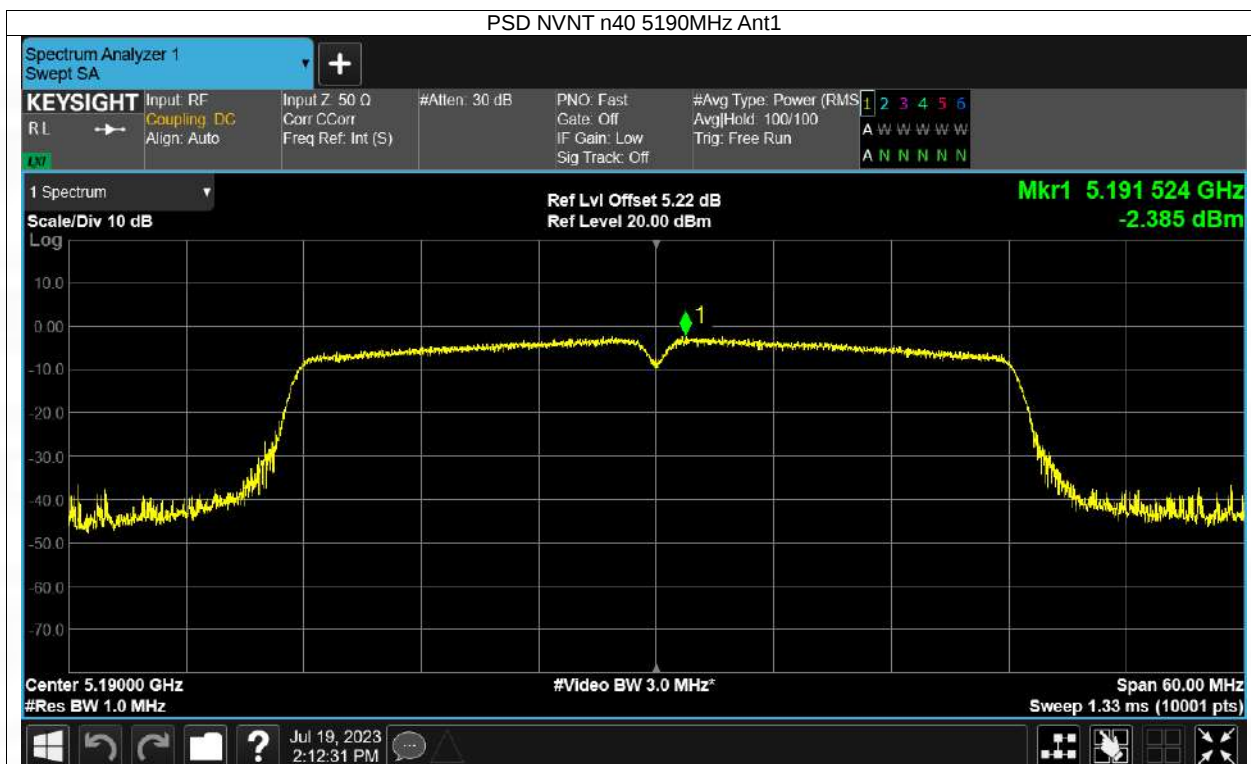


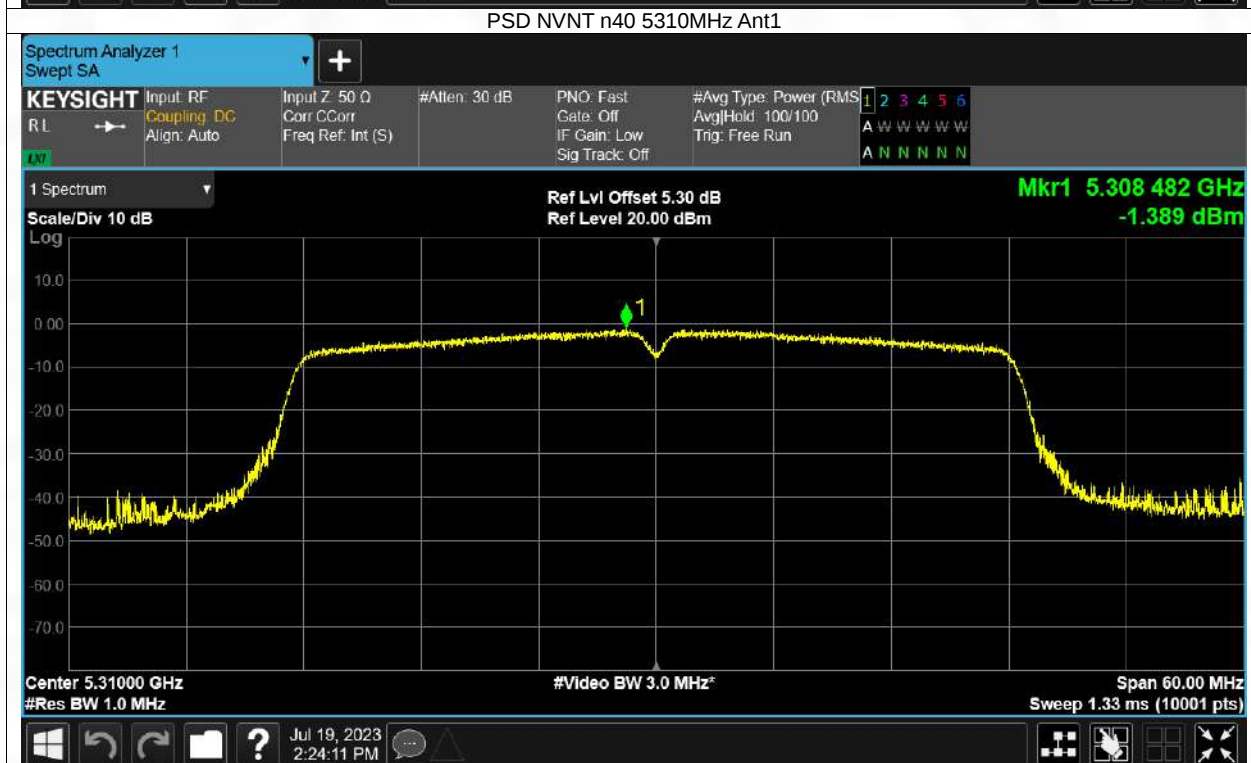
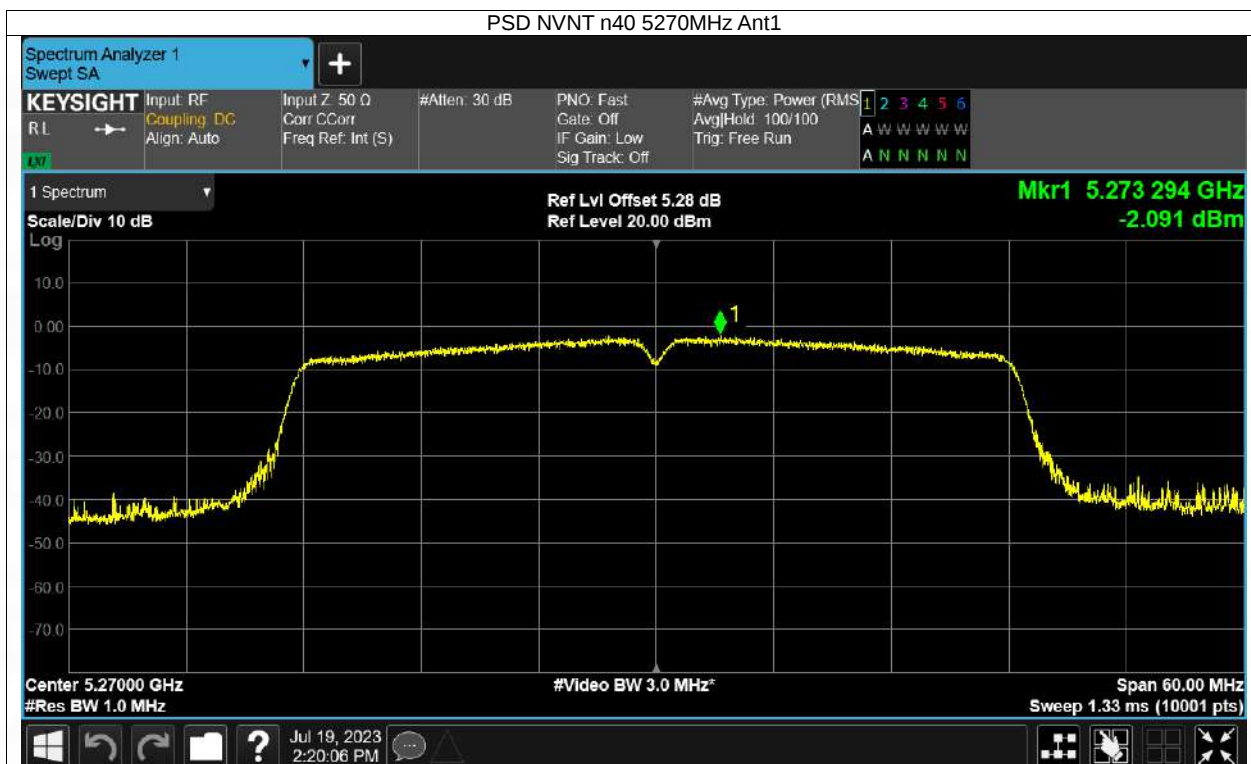


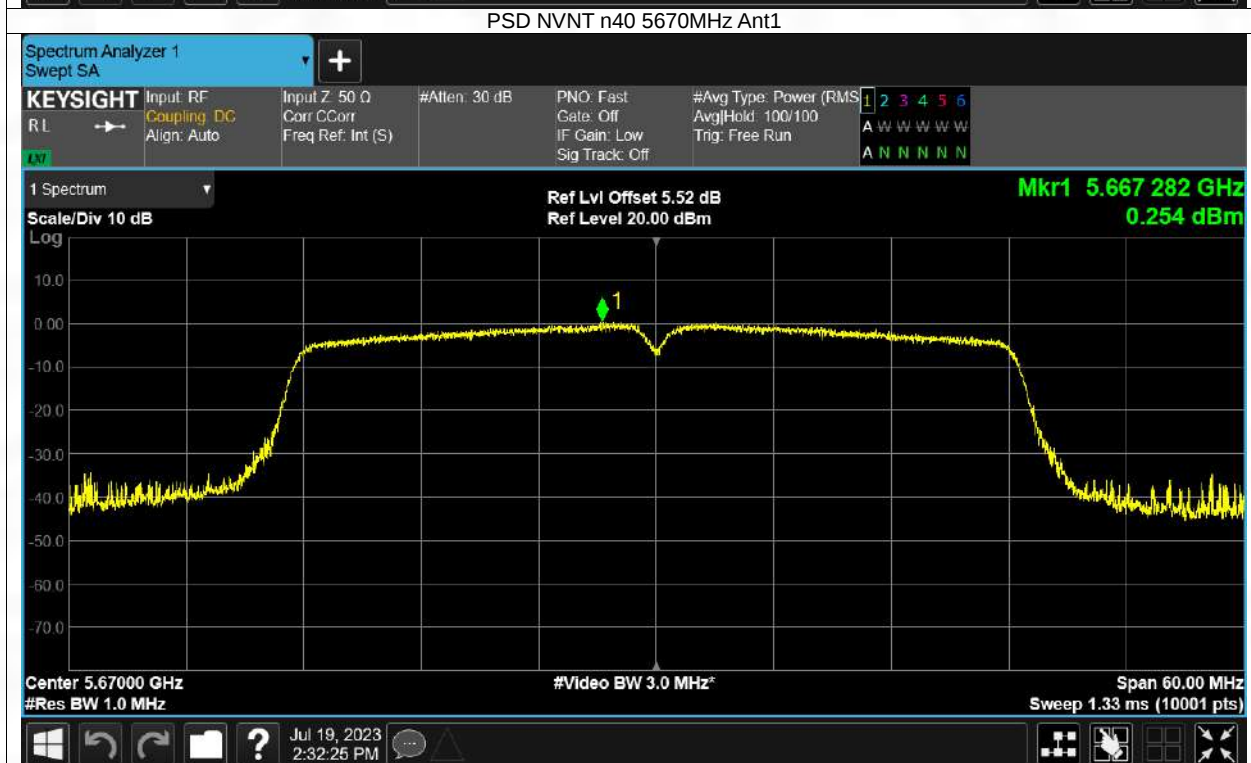
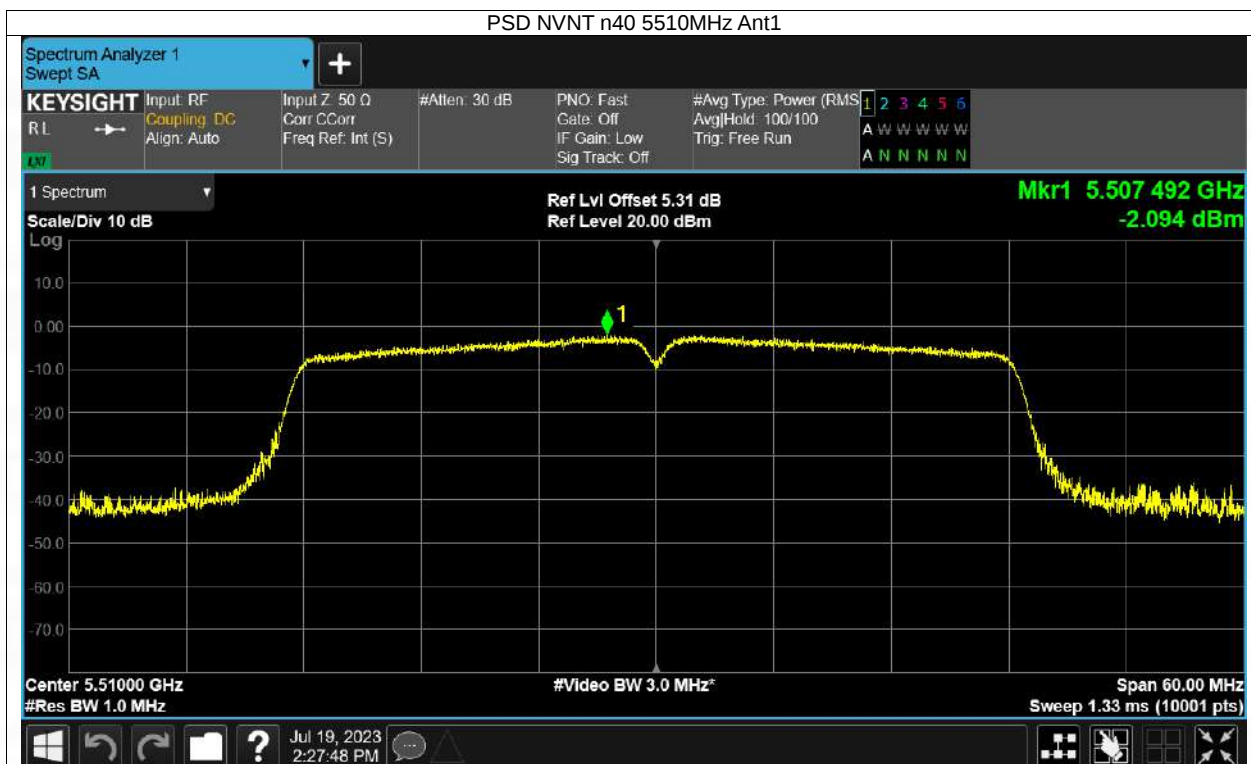


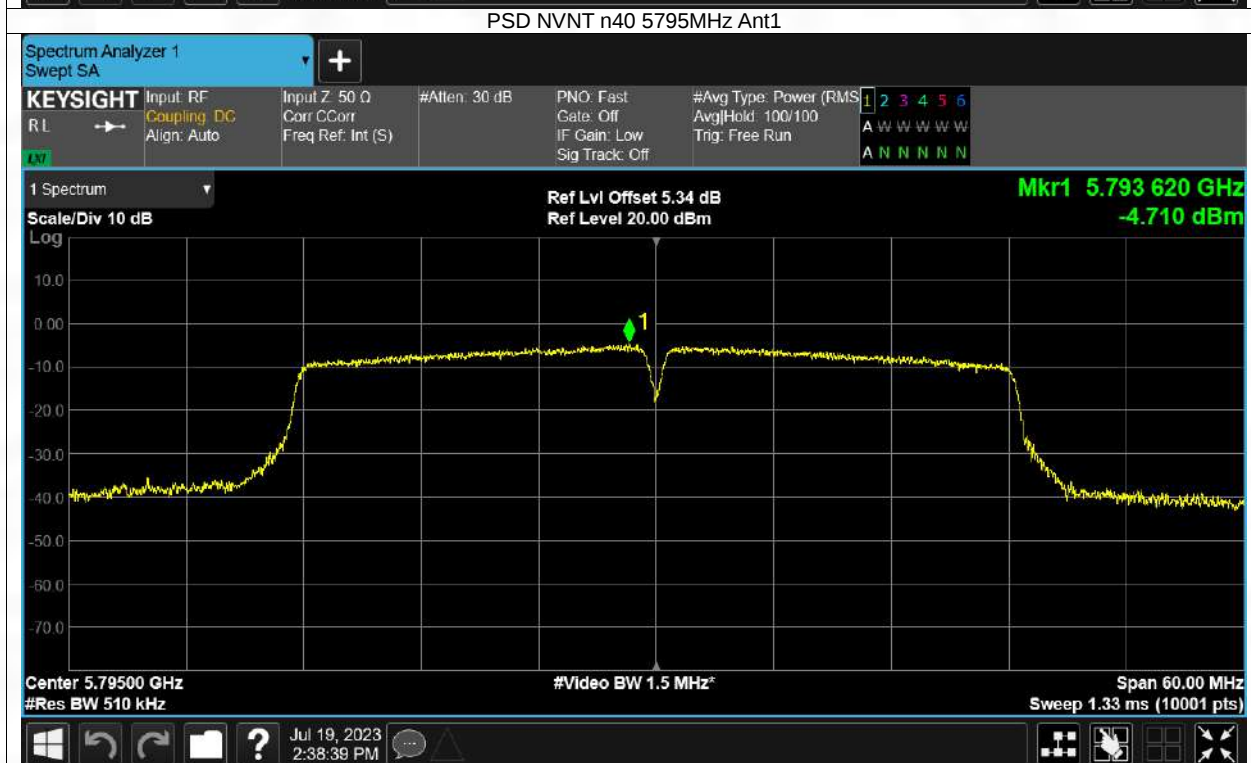
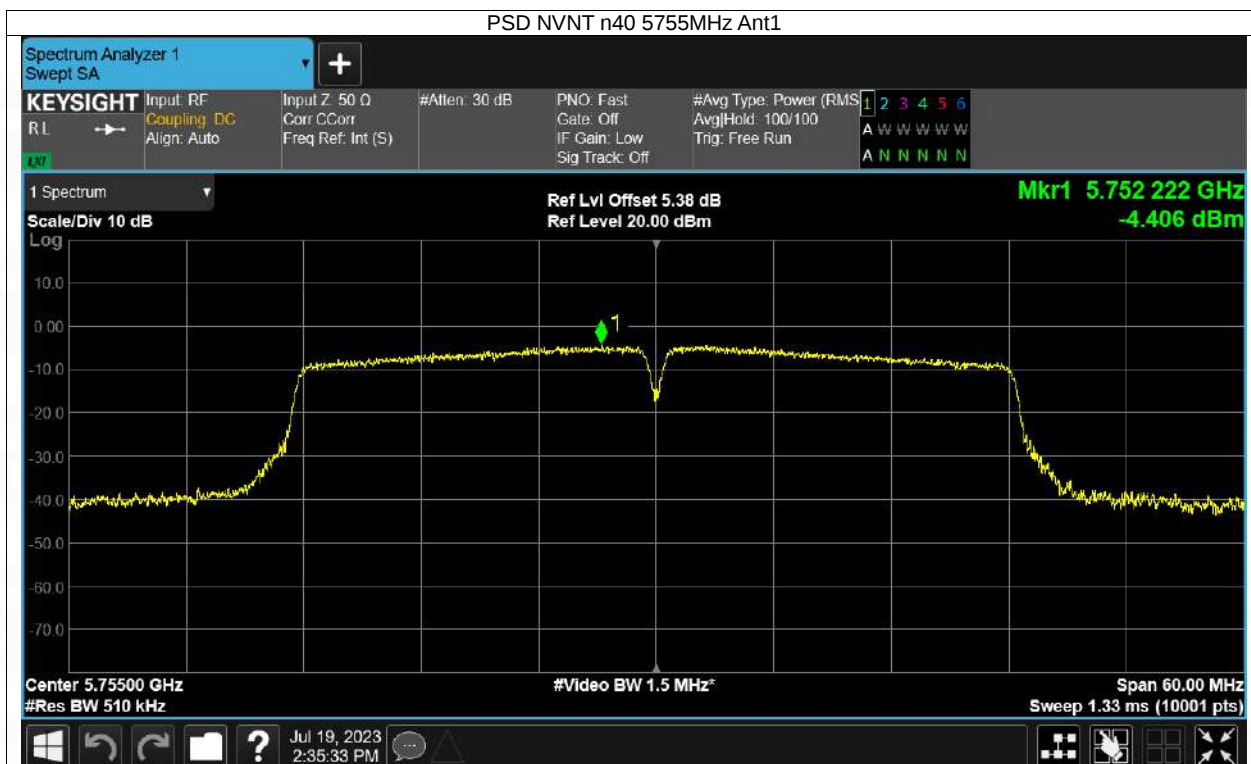


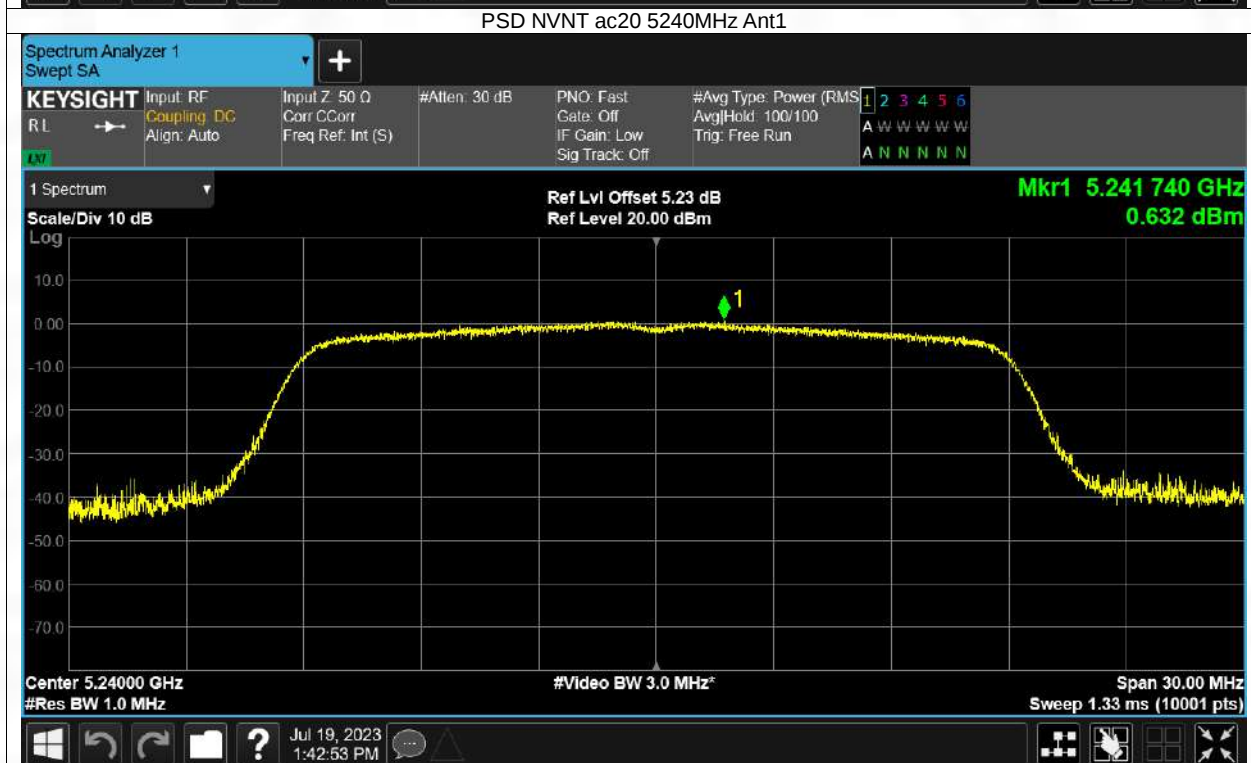
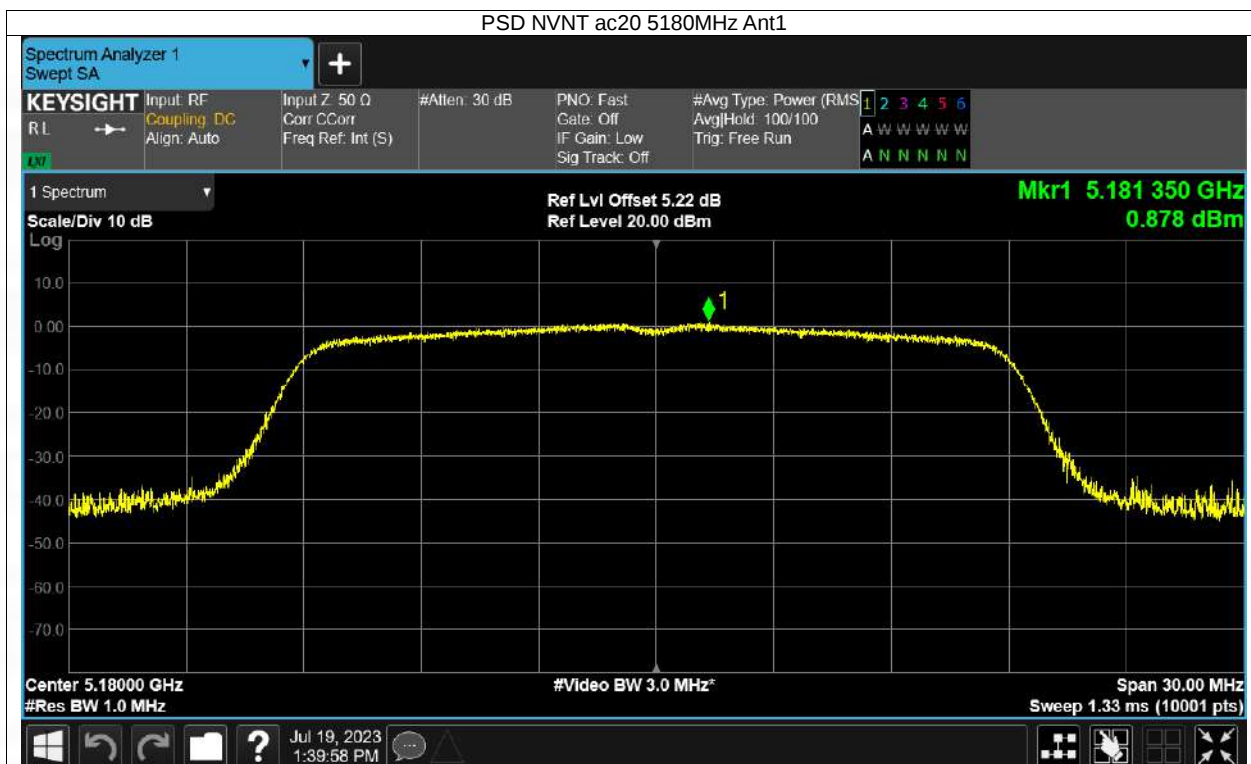


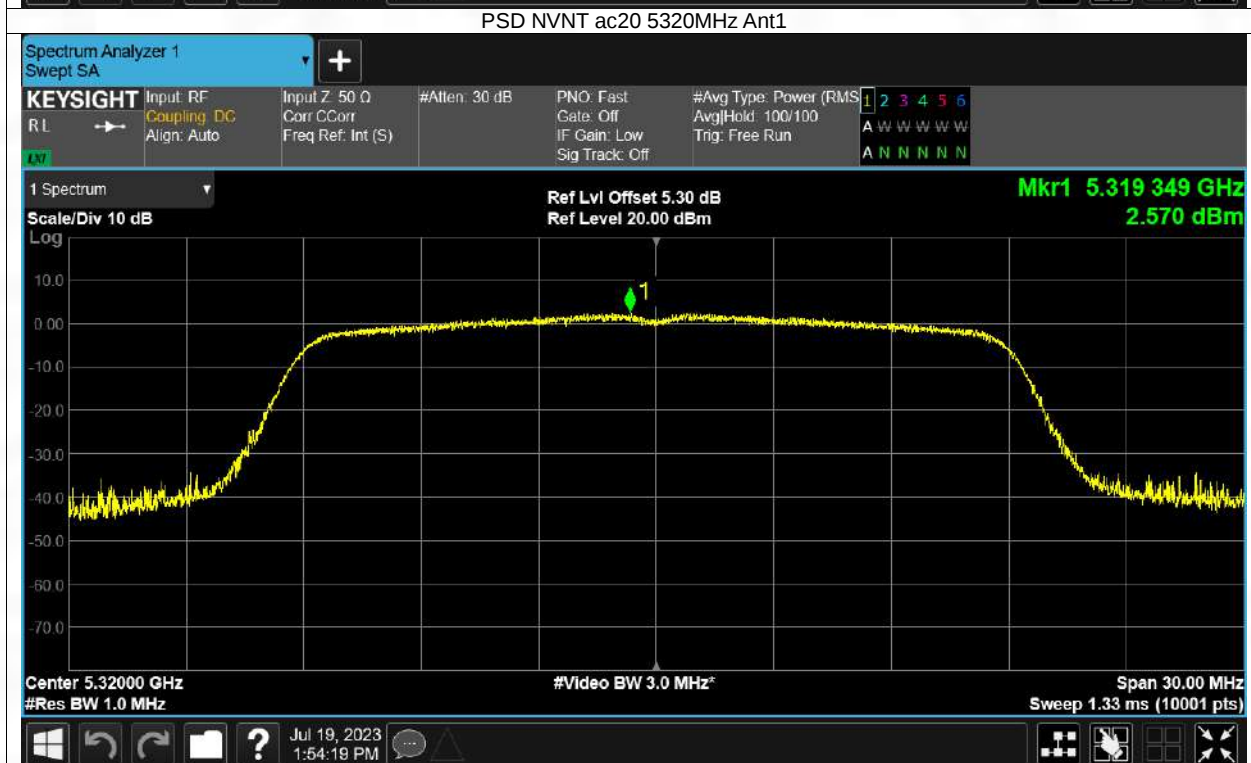
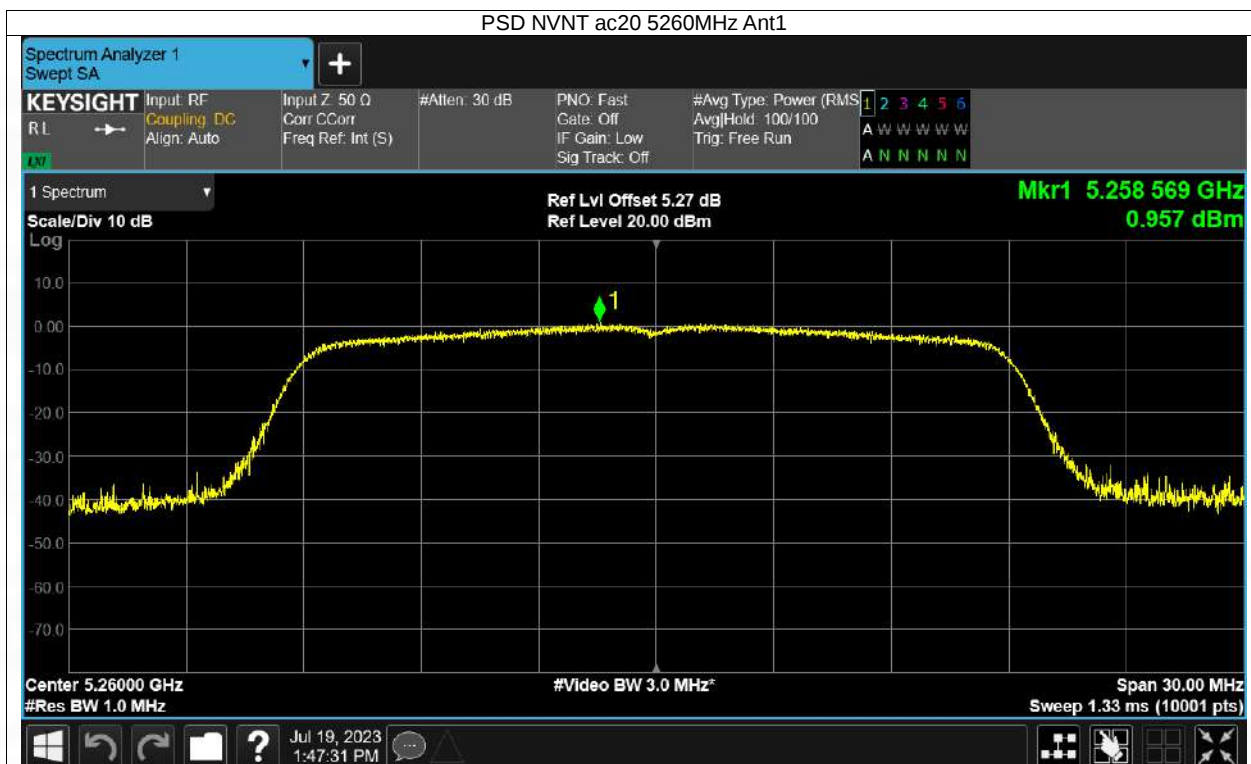


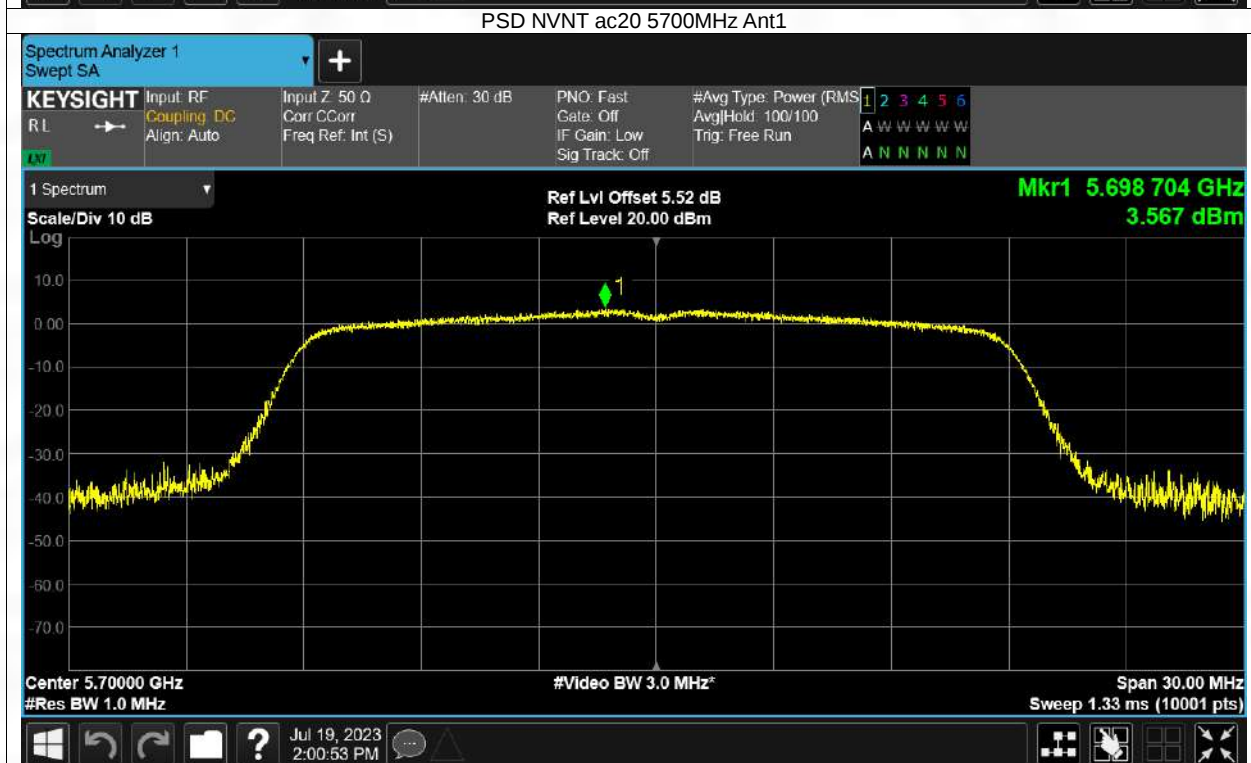
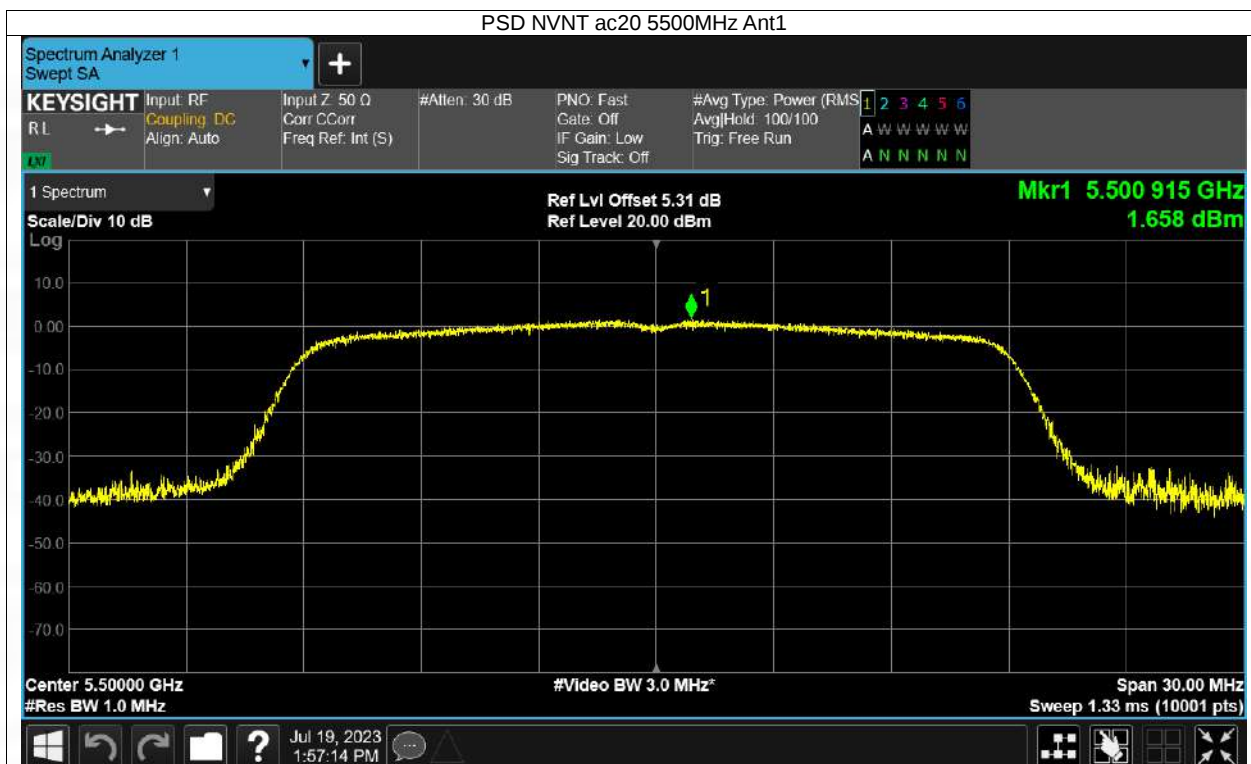


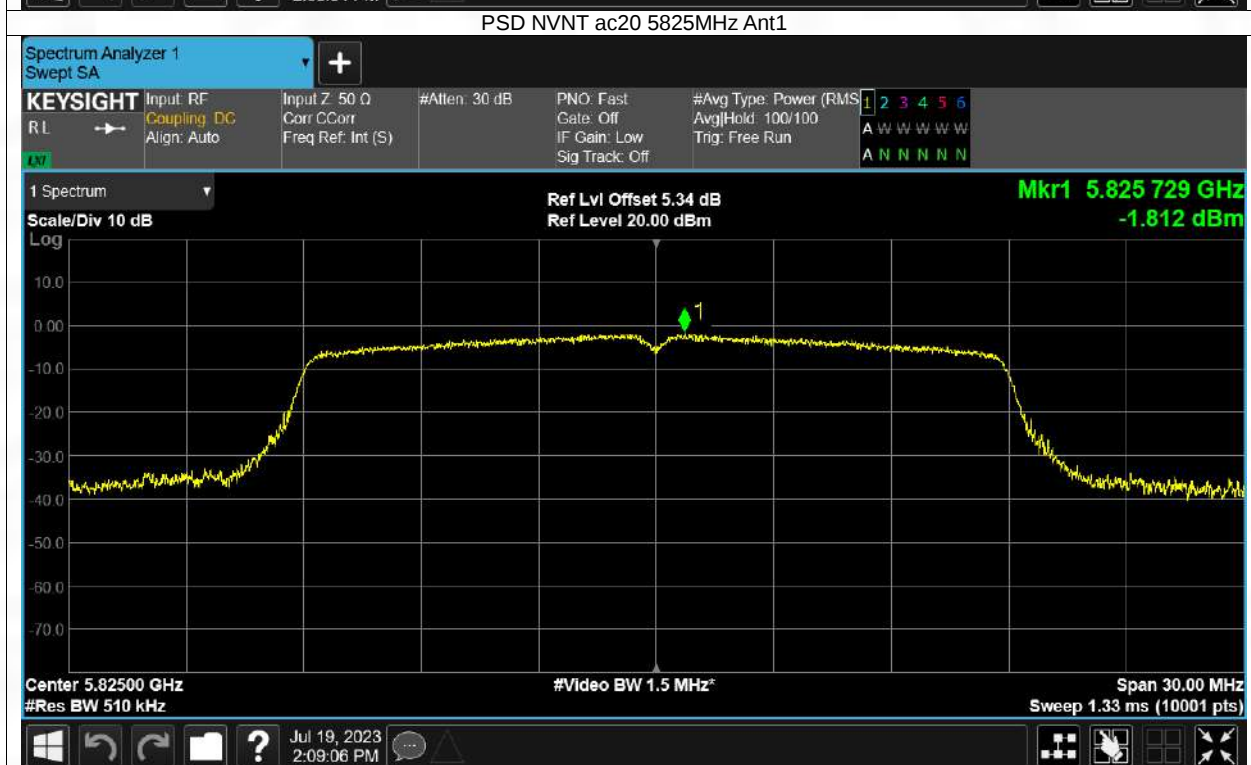
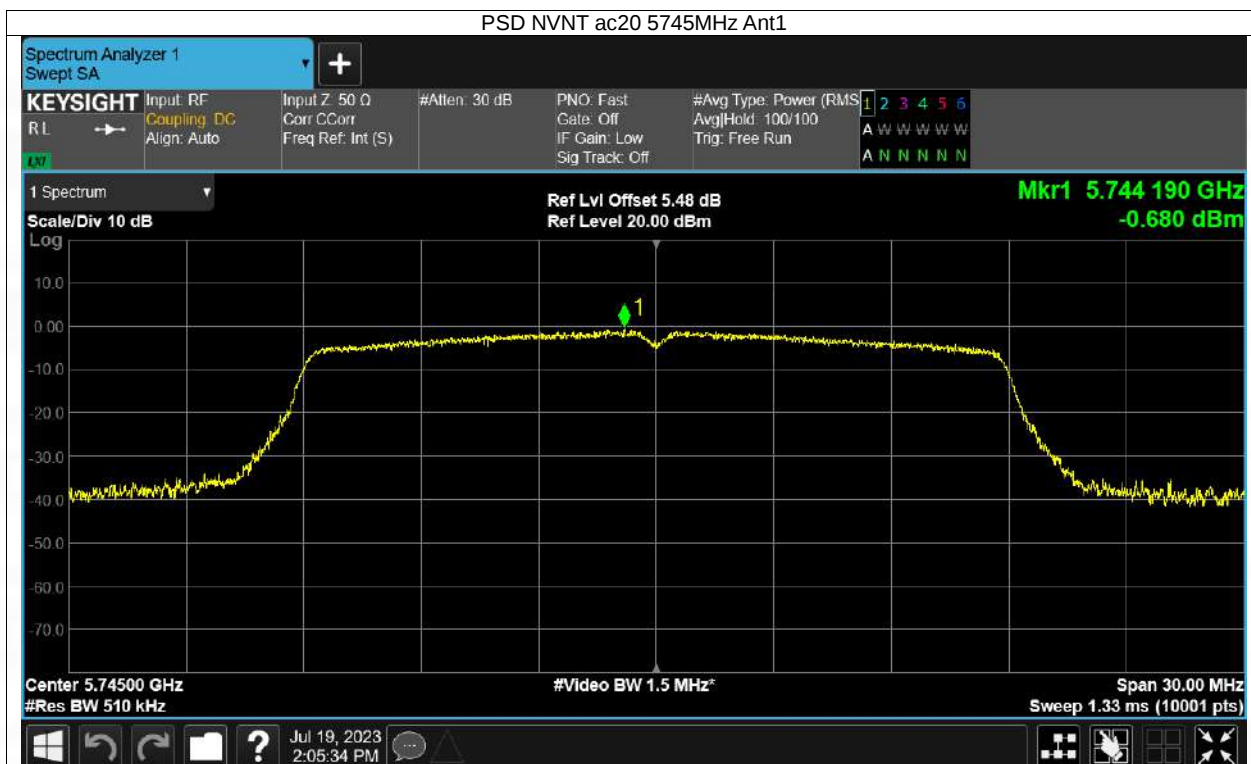


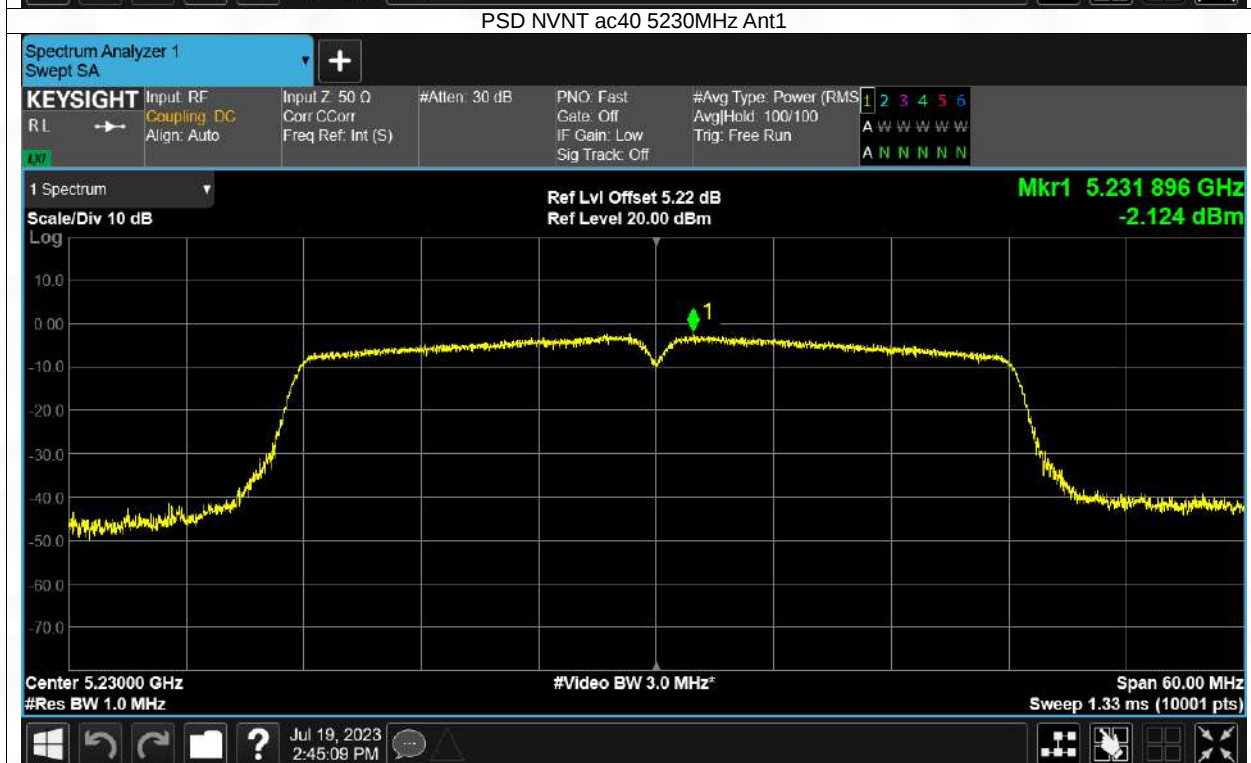
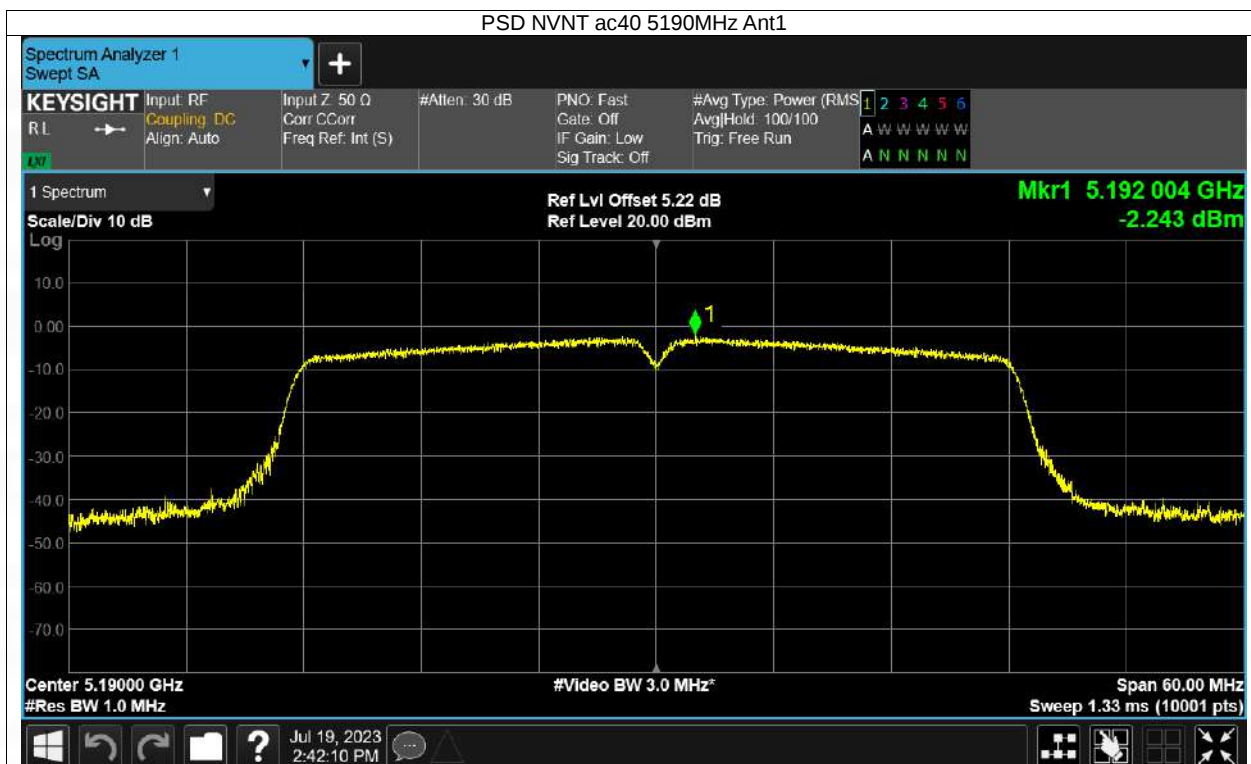


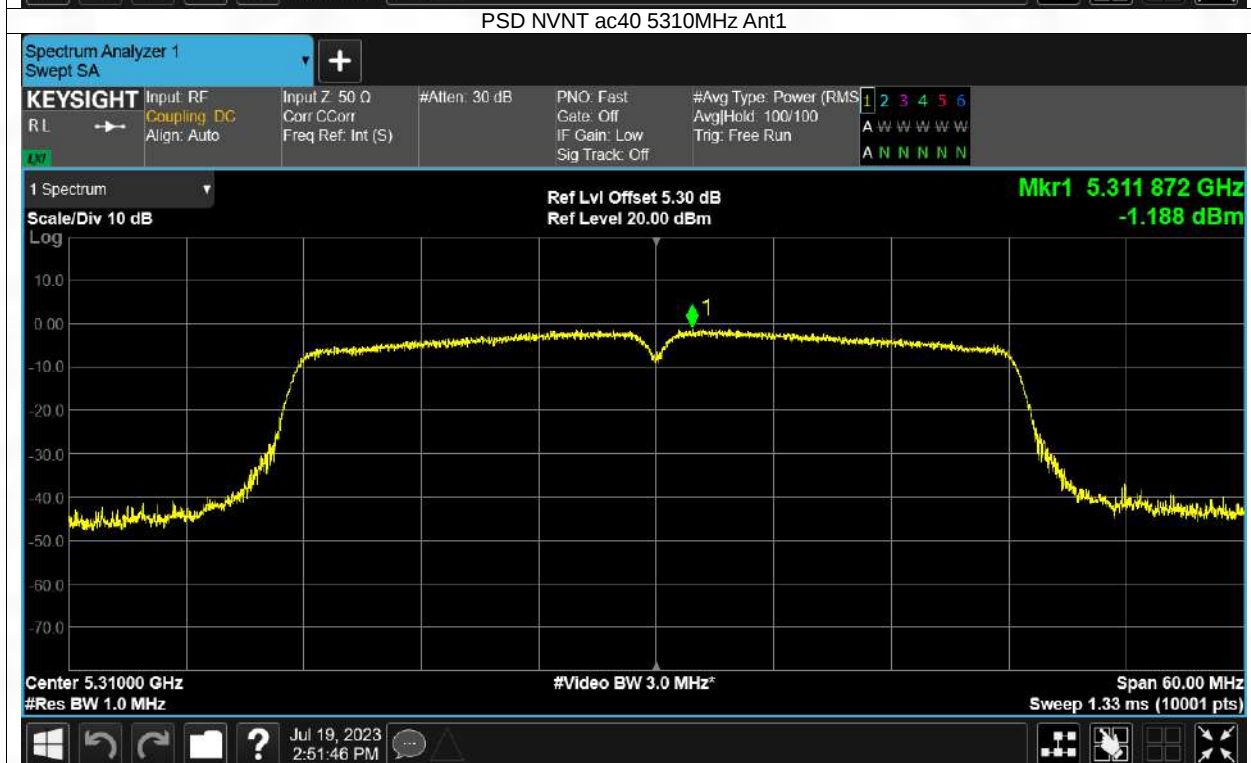
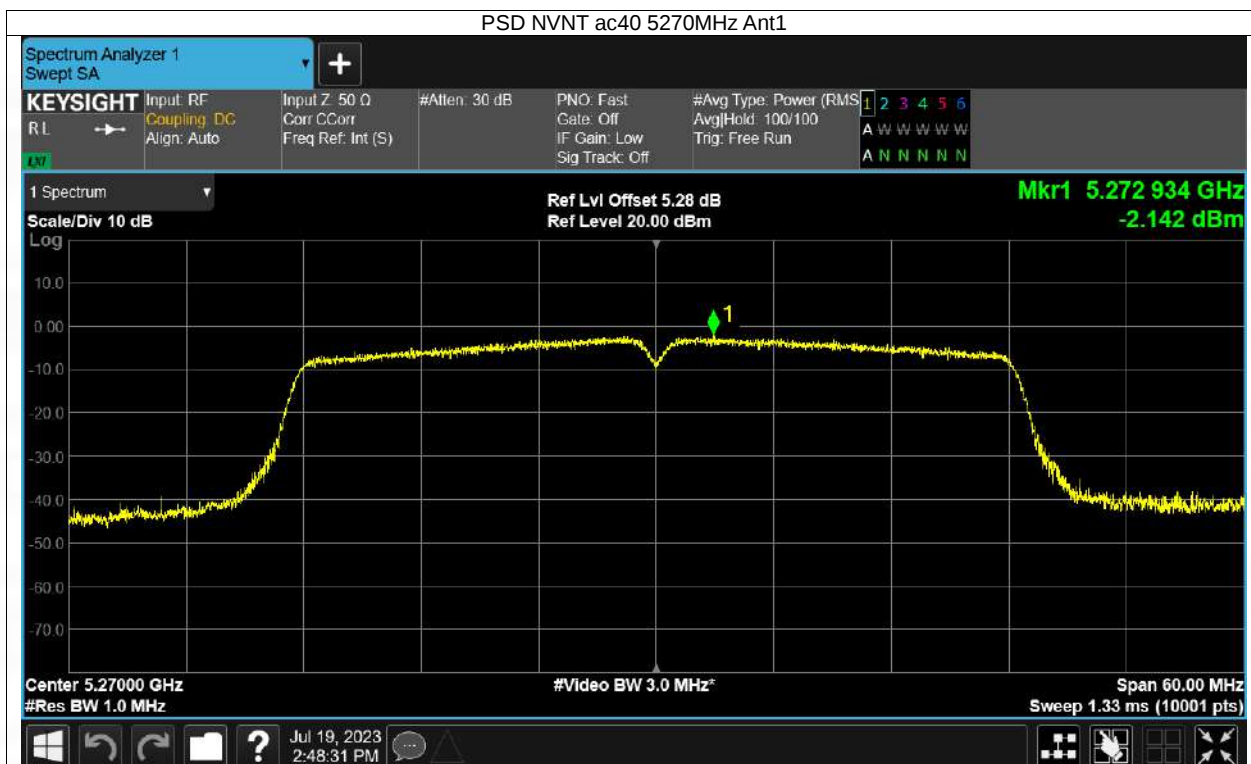


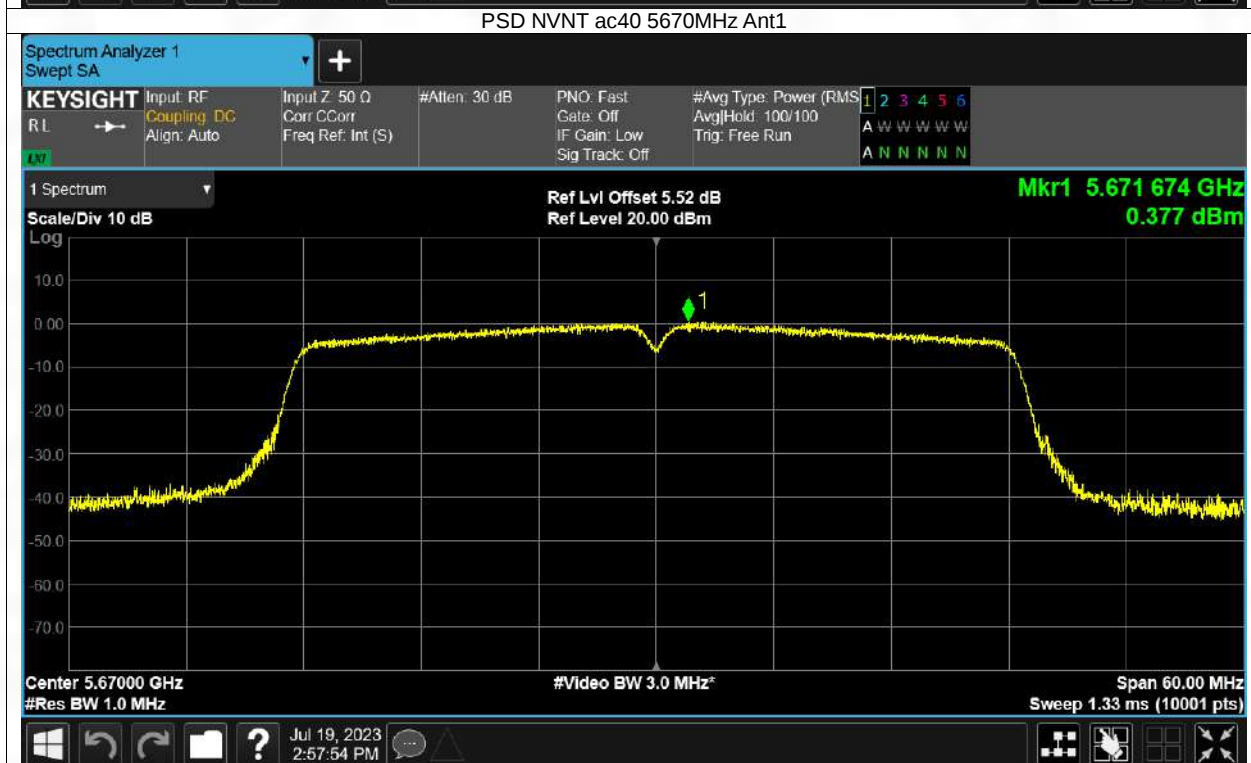
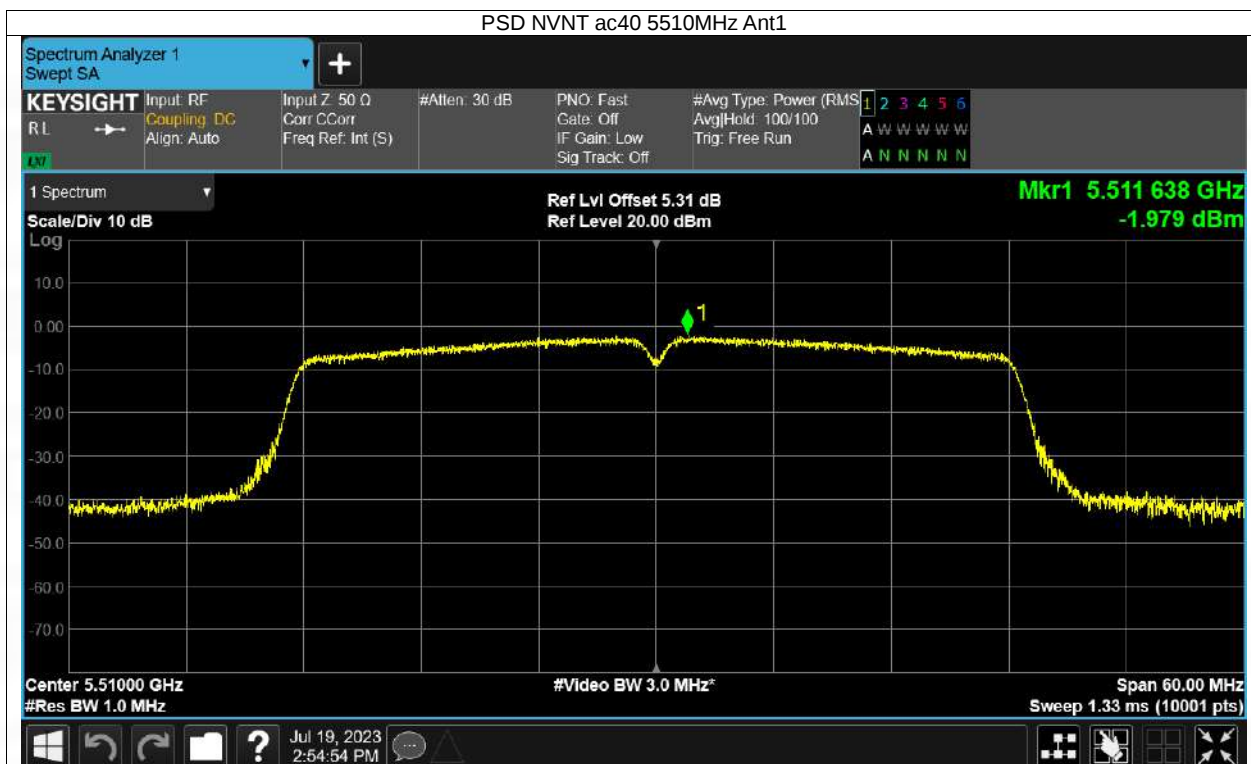


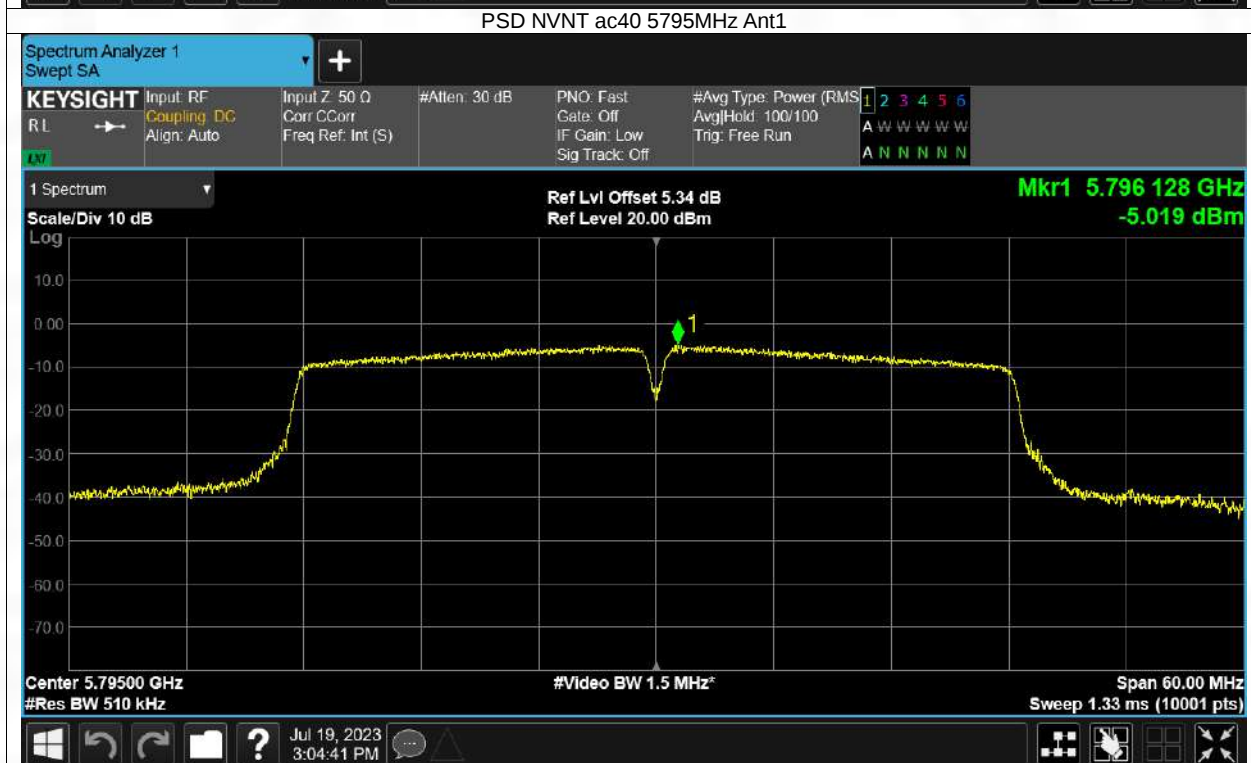
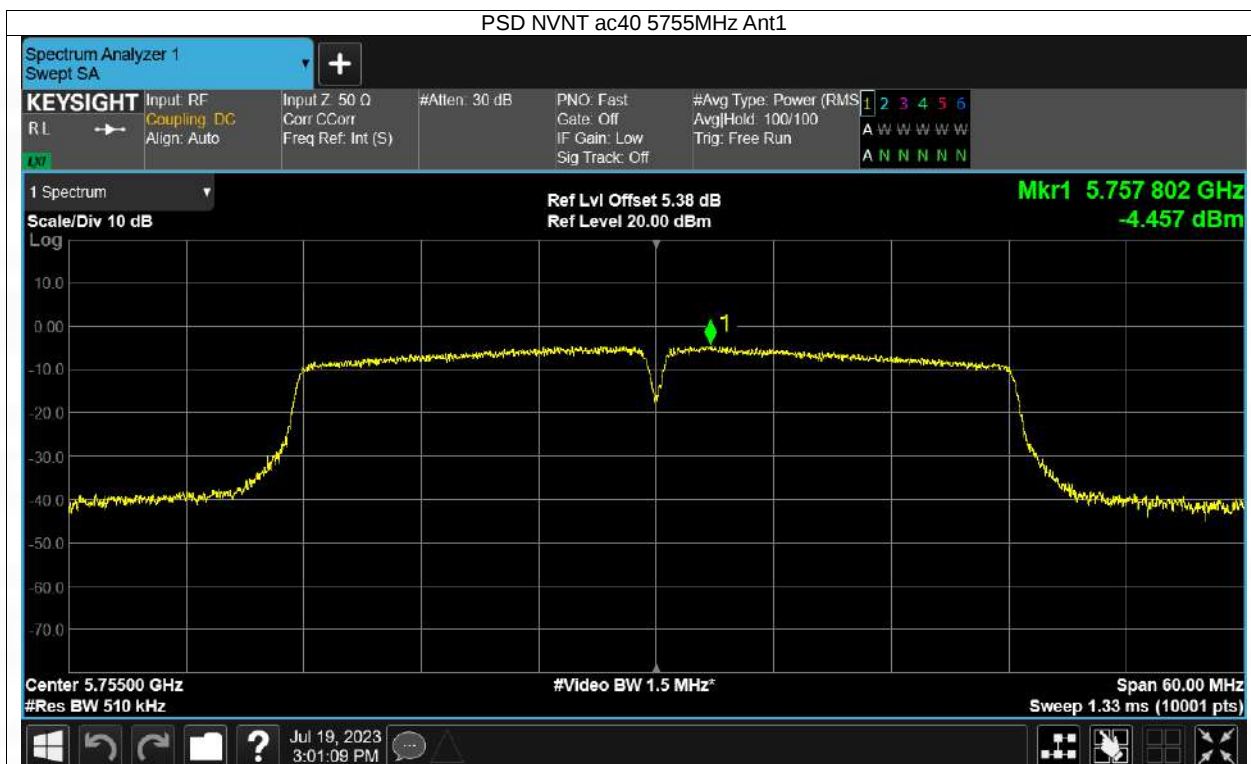


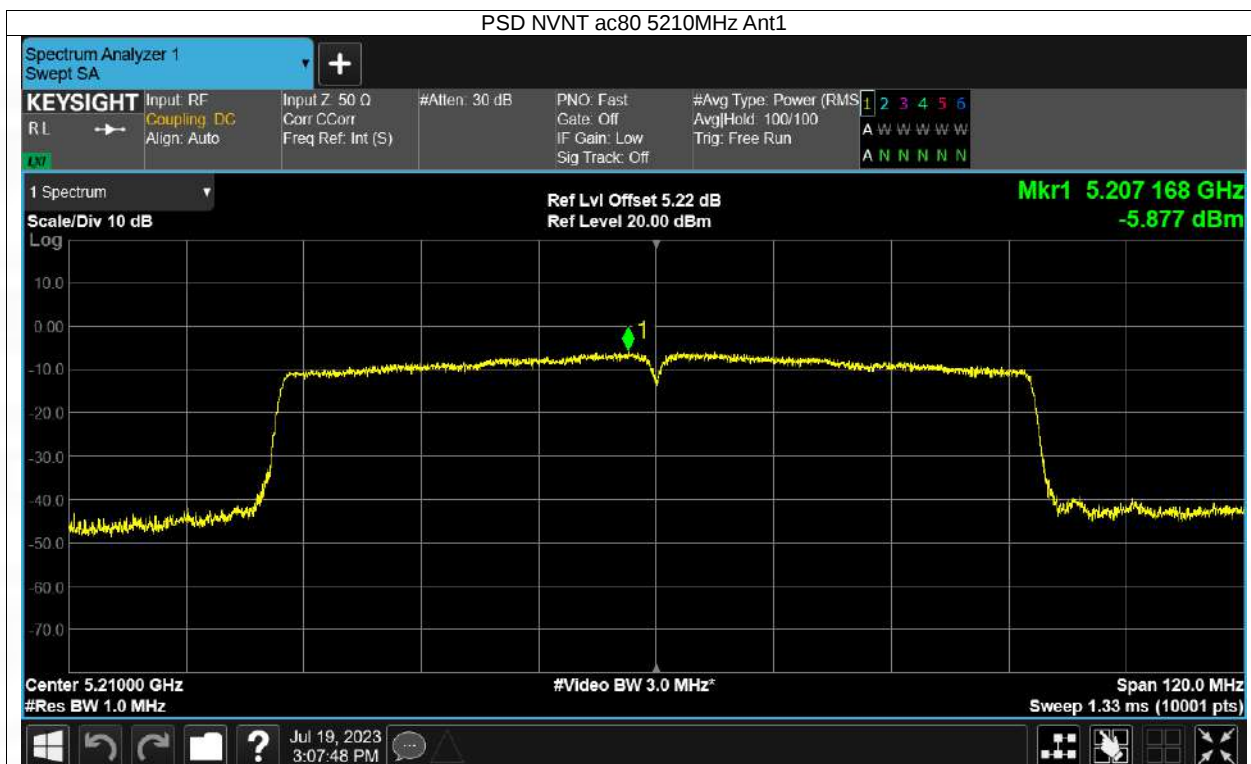


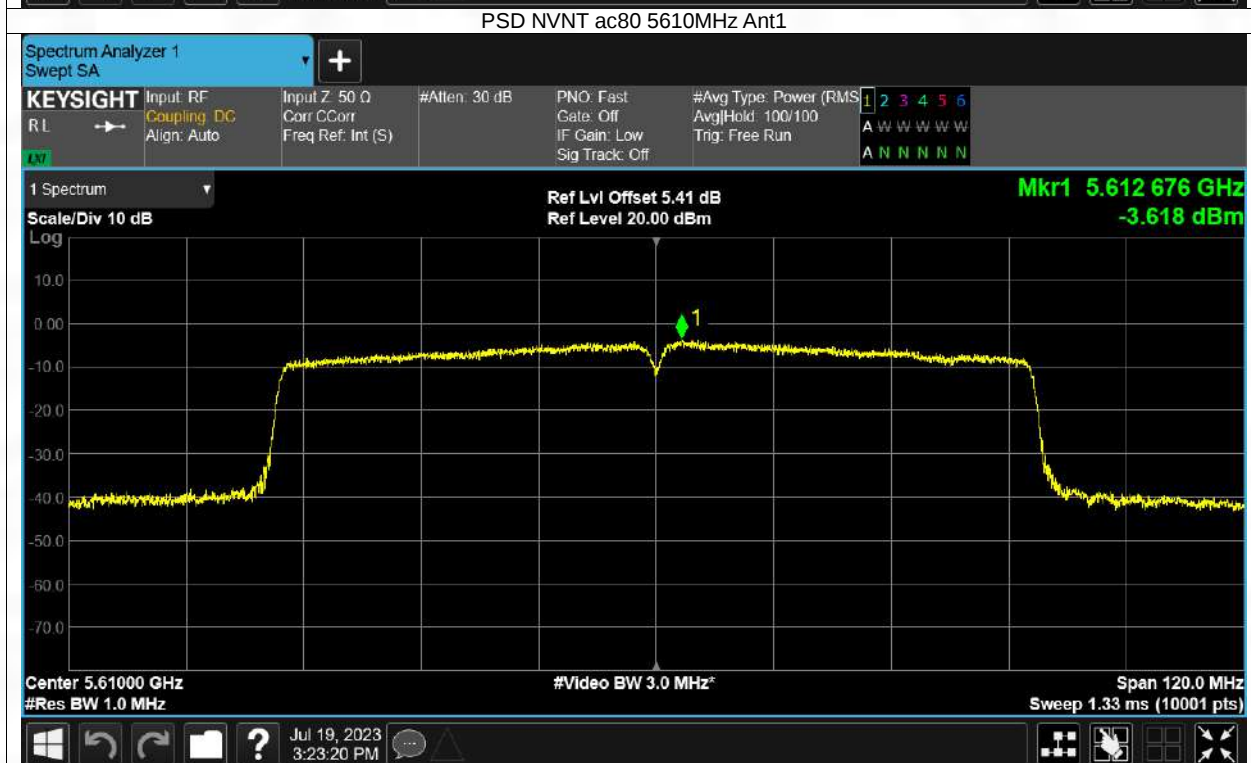
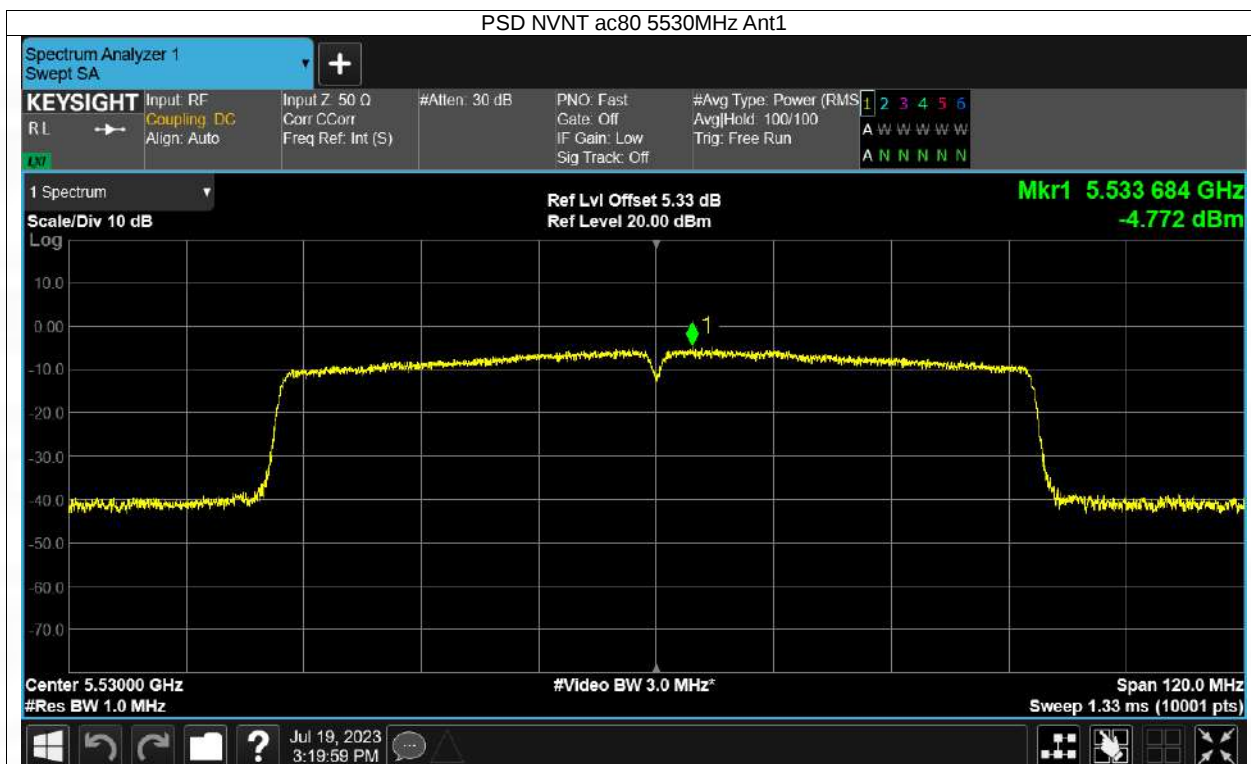


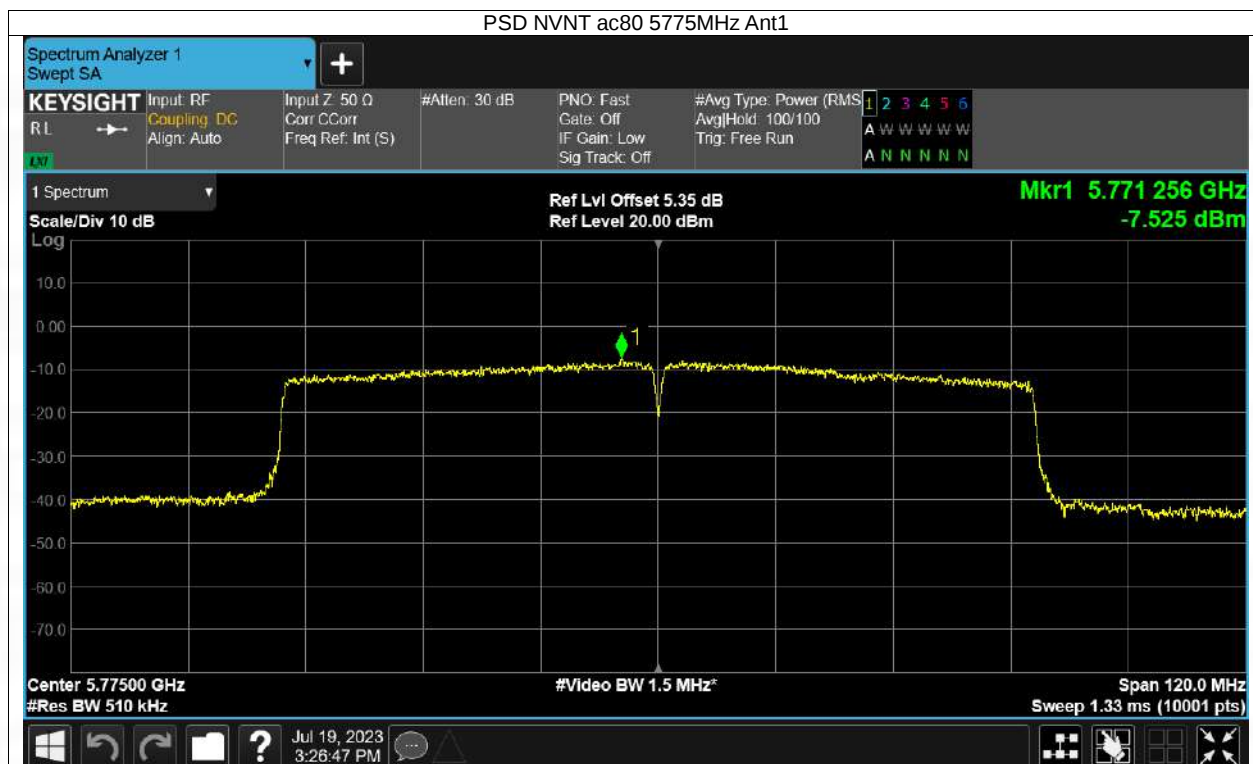












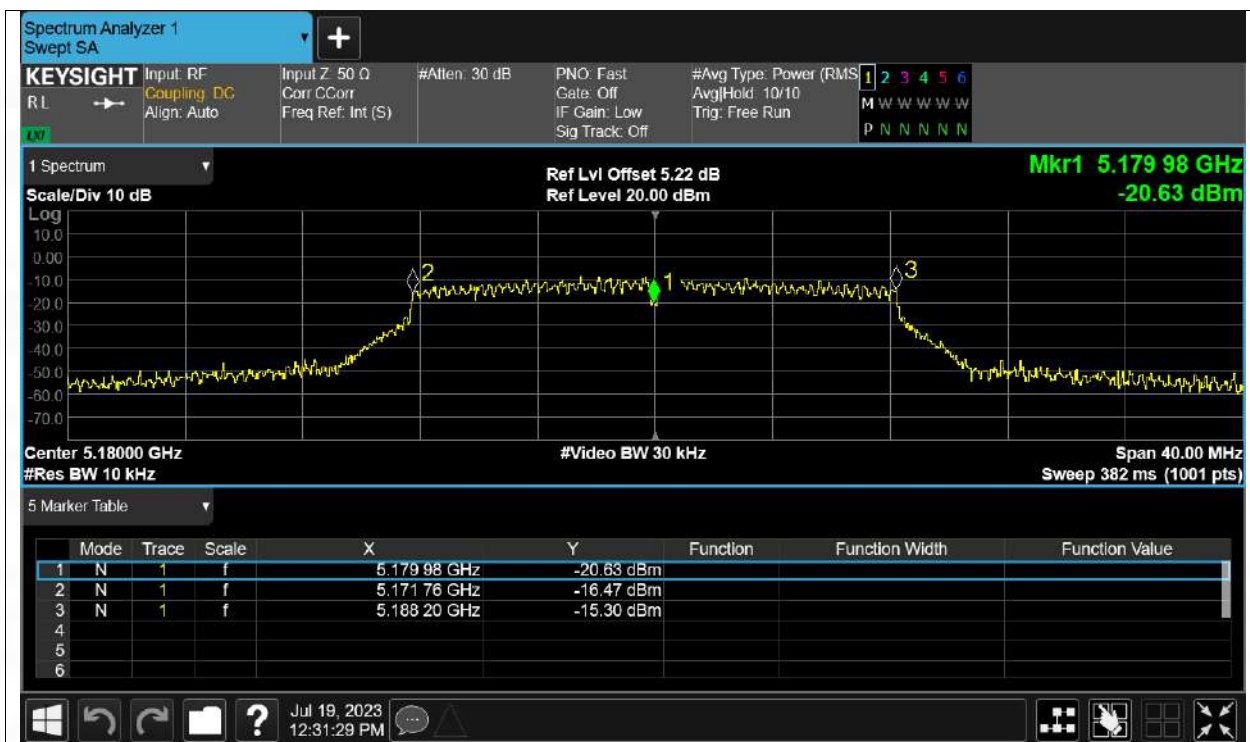
## 4. Frequency Stability

### 4.1 Ant1

#### 4.1.1 Test Result

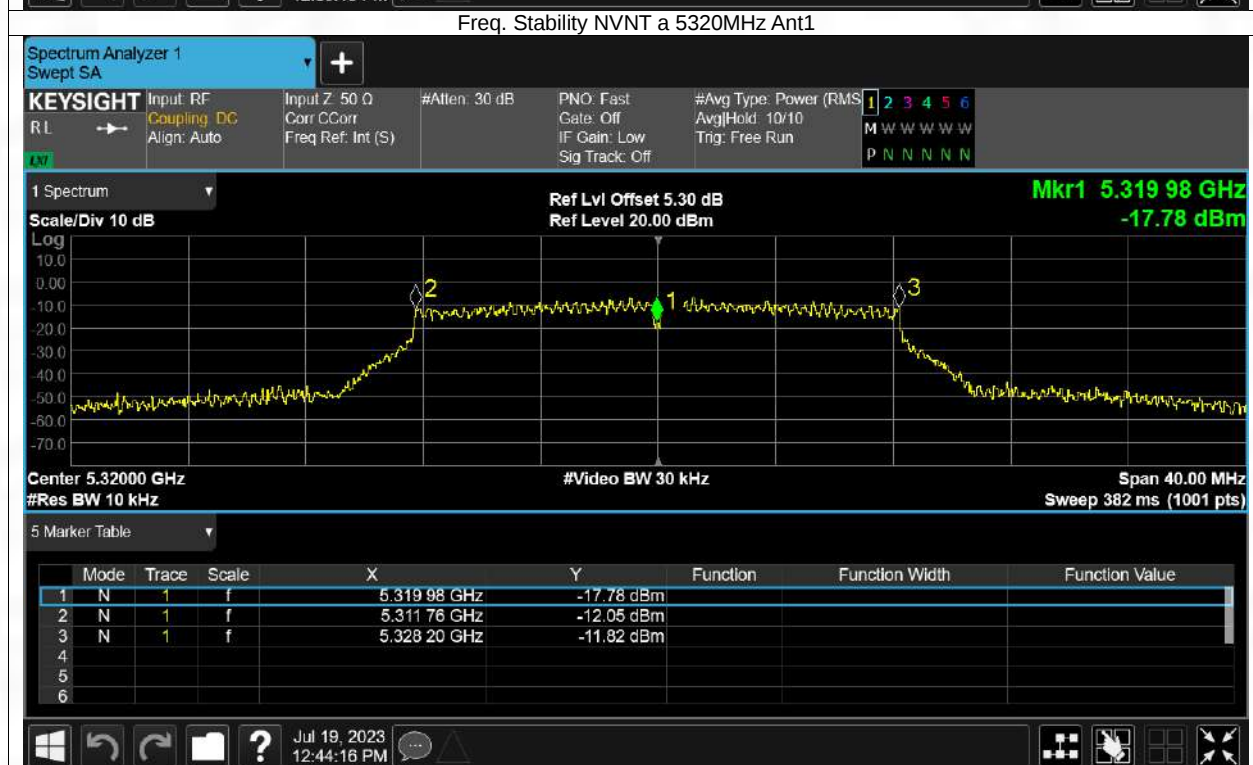
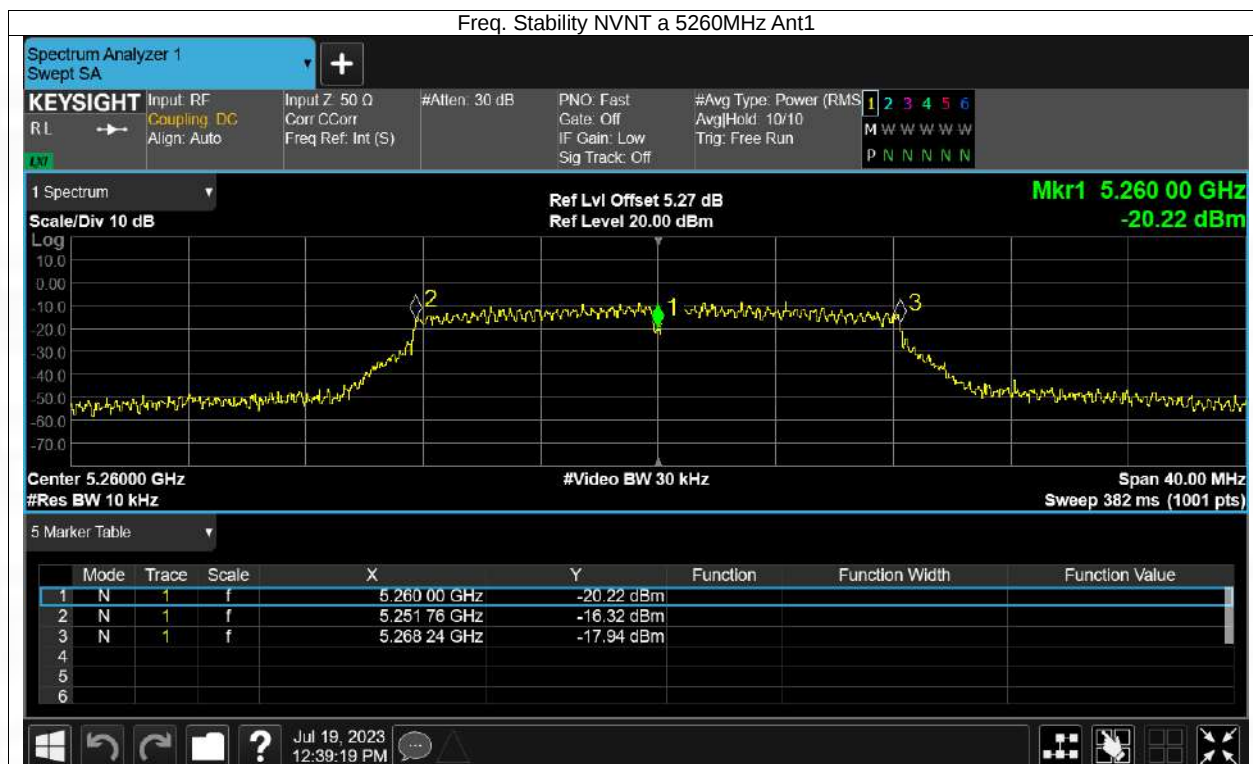
| Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| a    | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| a    | 5240            | Ant1    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| a    | 5260            | Ant1    | 5260                     | 0                    | 0               | 25          | Pass    |
| a    | 5320            | Ant1    | 5319.98                  | -20000               | -3.76           | 25          | Pass    |
| a    | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| a    | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| a    | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| a    | 5825            | Ant1    | 5824.98                  | -20000               | -3.43           | 25          | Pass    |
| n20  | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| n20  | 5240            | Ant1    | 5239.96                  | -40000               | -7.63           | 25          | Pass    |
| n20  | 5260            | Ant1    | 5259.96                  | -40000               | -7.6            | 25          | Pass    |
| n20  | 5320            | Ant1    | 5319.96                  | -40000               | -7.52           | 25          | Pass    |
| n20  | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| n20  | 5700            | Ant1    | 5699.96                  | -40000               | -7.02           | 25          | Pass    |
| n20  | 5745            | Ant1    | 5745                     | 0                    | 0               | 25          | Pass    |
| n20  | 5825            | Ant1    | 5824.96                  | -40000               | -6.87           | 25          | Pass    |
| n40  | 5190            | Ant1    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| n40  | 5230            | Ant1    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| n40  | 5270            | Ant1    | 5269.96                  | -40000               | -7.59           | 25          | Pass    |
| n40  | 5310            | Ant1    | 5309.96                  | -40000               | -7.53           | 25          | Pass    |
| n40  | 5510            | Ant1    | 5510                     | 0                    | 0               | 25          | Pass    |
| n40  | 5670            | Ant1    | 5669.96                  | -40000               | -7.05           | 25          | Pass    |
| n40  | 5755            | Ant1    | 5754.96                  | -40000               | -6.95           | 25          | Pass    |
| n40  | 5795            | Ant1    | 5794.96                  | -40000               | -6.9            | 25          | Pass    |
| ac20 | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| ac20 | 5240            | Ant1    | 5239.96                  | -40000               | -7.63           | 25          | Pass    |
| ac20 | 5260            | Ant1    | 5259.96                  | -40000               | -7.6            | 25          | Pass    |
| ac20 | 5320            | Ant1    | 5319.98                  | -20000               | -3.76           | 25          | Pass    |
| ac20 | 5500            | Ant1    | 5499.96                  | -40000               | -7.27           | 25          | Pass    |
| ac20 | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| ac20 | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| ac20 | 5825            | Ant1    | 5824.94                  | -60000               | -10.3           | 25          | Pass    |
| ac40 | 5190            | Ant1    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| ac40 | 5230            | Ant1    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| ac40 | 5270            | Ant1    | 5270                     | 0                    | 0               | 25          | Pass    |
| ac40 | 5310            | Ant1    | 5310                     | 0                    | 0               | 25          | Pass    |
| ac40 | 5510            | Ant1    | 5509.96                  | -40000               | -7.26           | 25          | Pass    |
| ac40 | 5670            | Ant1    | 5669.96                  | -40000               | -7.05           | 25          | Pass    |
| ac40 | 5755            | Ant1    | 5755                     | 0                    | 0               | 25          | Pass    |
| ac40 | 5795            | Ant1    | 5795                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5210            | Ant1    | 5210                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5290            | Ant1    | 5290                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5530            | Ant1    | 5530                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5610            | Ant1    | 5610                     | 0                    | 0               | 25          | Pass    |
| ac80 | 5775            | Ant1    | 5775                     | 0                    | 0               | 25          | Pass    |

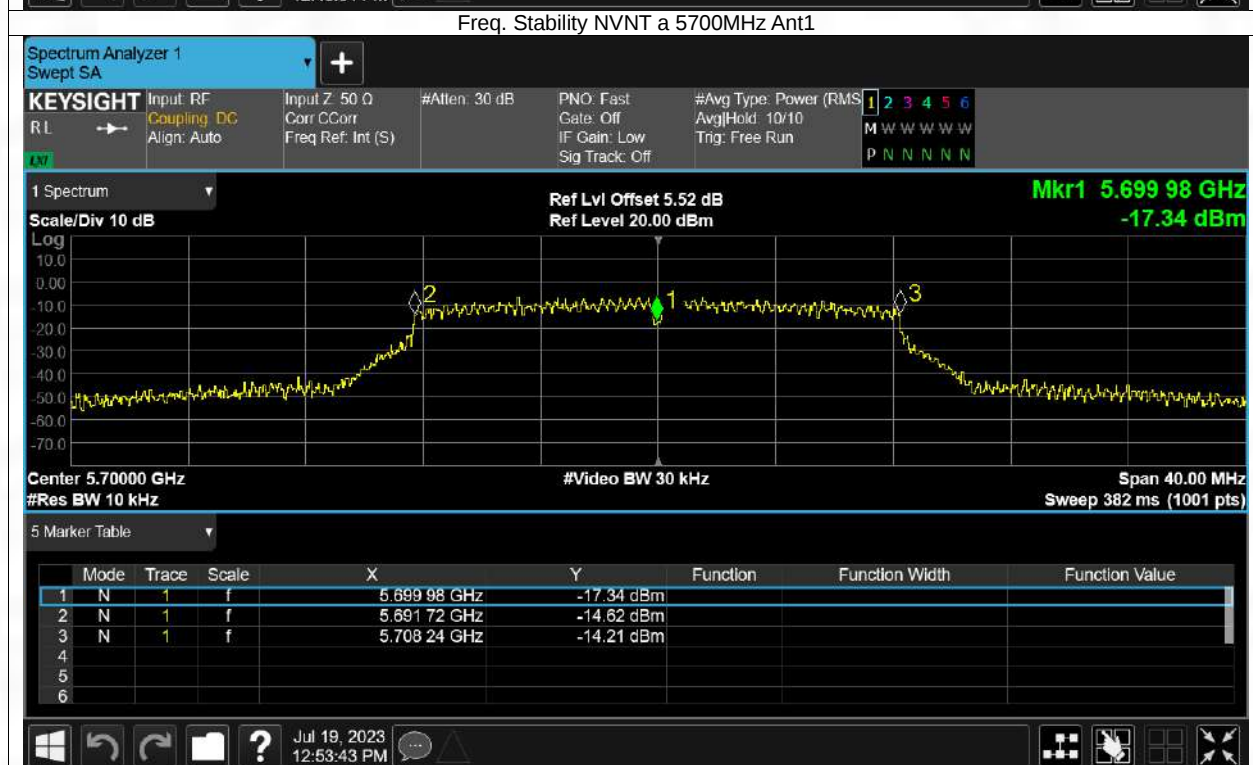
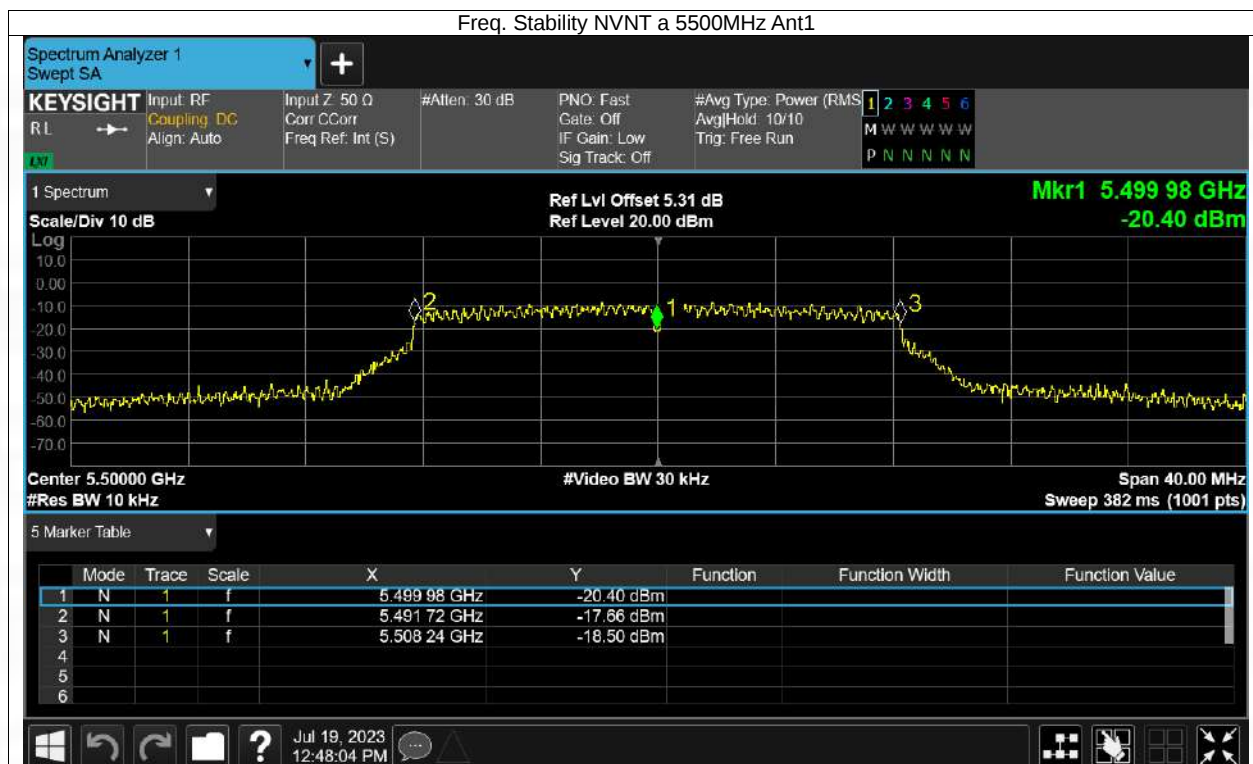
|                                     |
|-------------------------------------|
| Test Graphs                         |
| Freq. Stability NVNT a 5180MHz Ant1 |

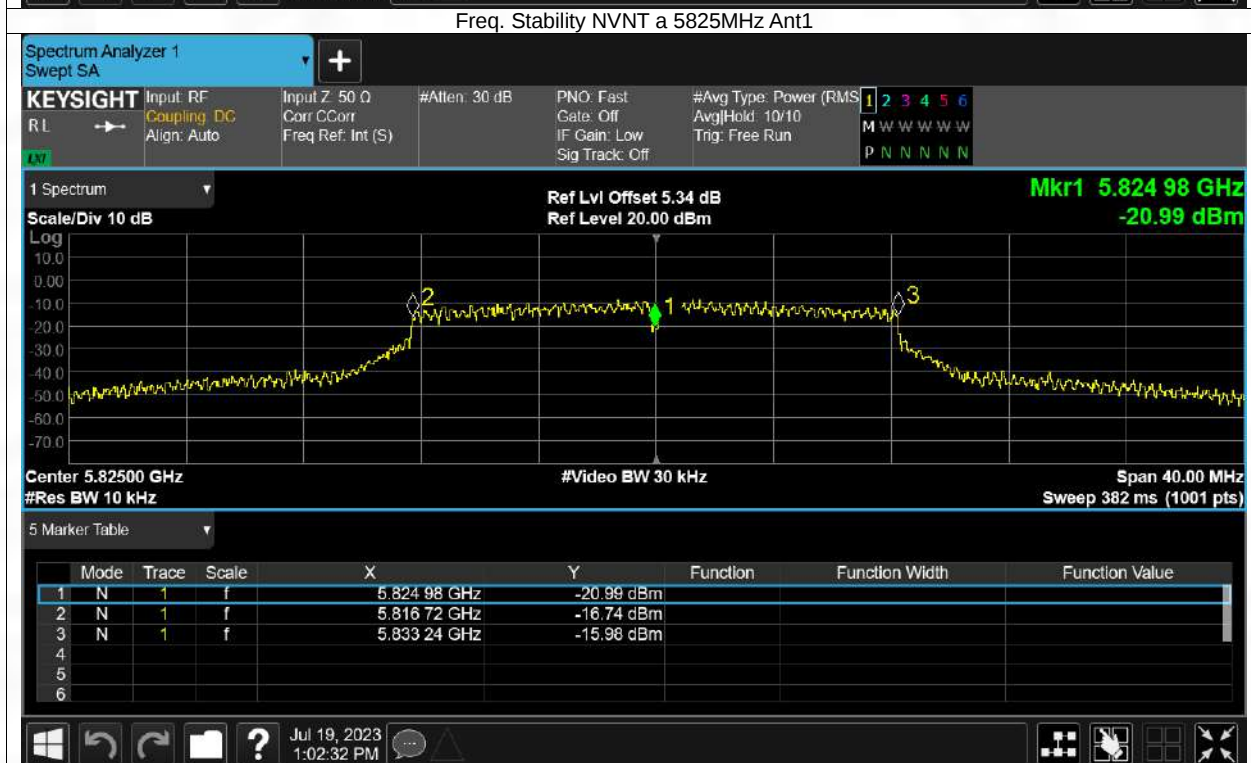
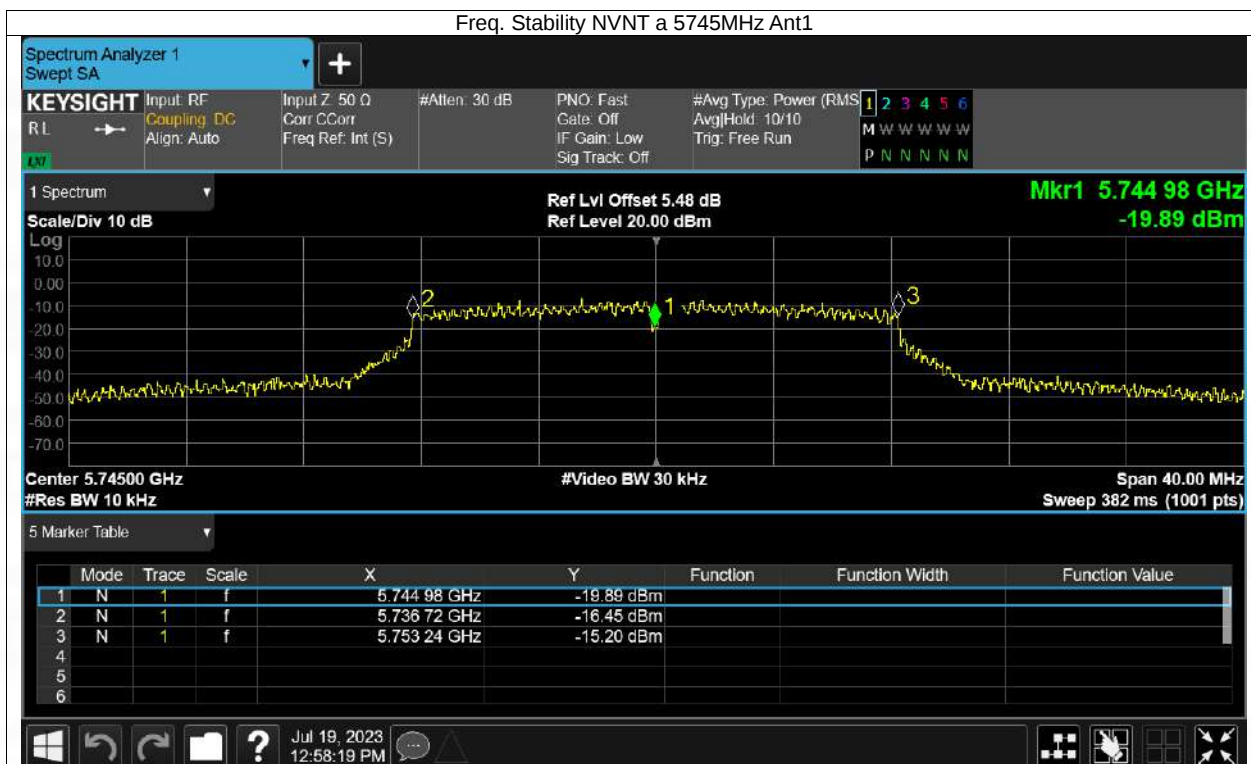


Freq. Stability NVNT a 5240MHz Ant1









# Freq. Stability NVNT n20 5180MHz Ant1



# Freq. Stability NVNT n20 5240MHz Ant1



# Freq. Stability NVNT n20 5260MHz Ant1



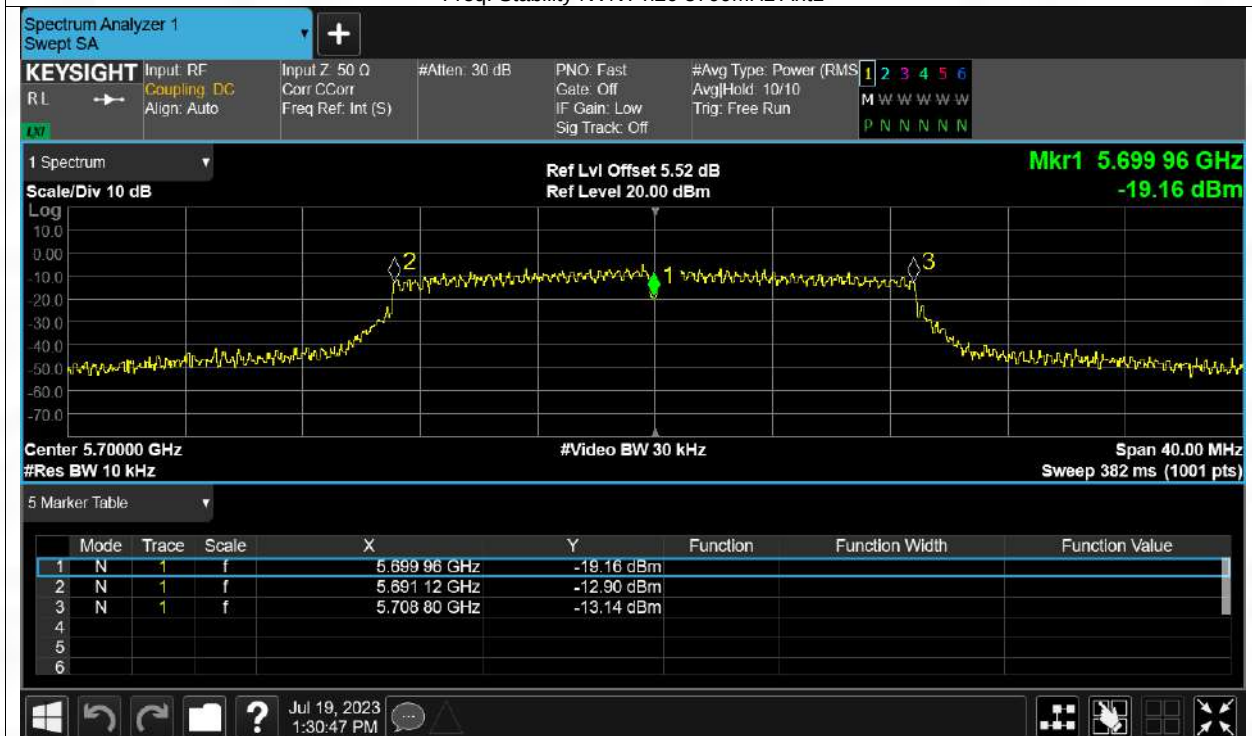
# Freq. Stability NVNT n20 5320MHz Ant1



# Freq. Stability NVNT n20 5500MHz Ant1



# Freq. Stability NVNT n20 5700MHz Ant1

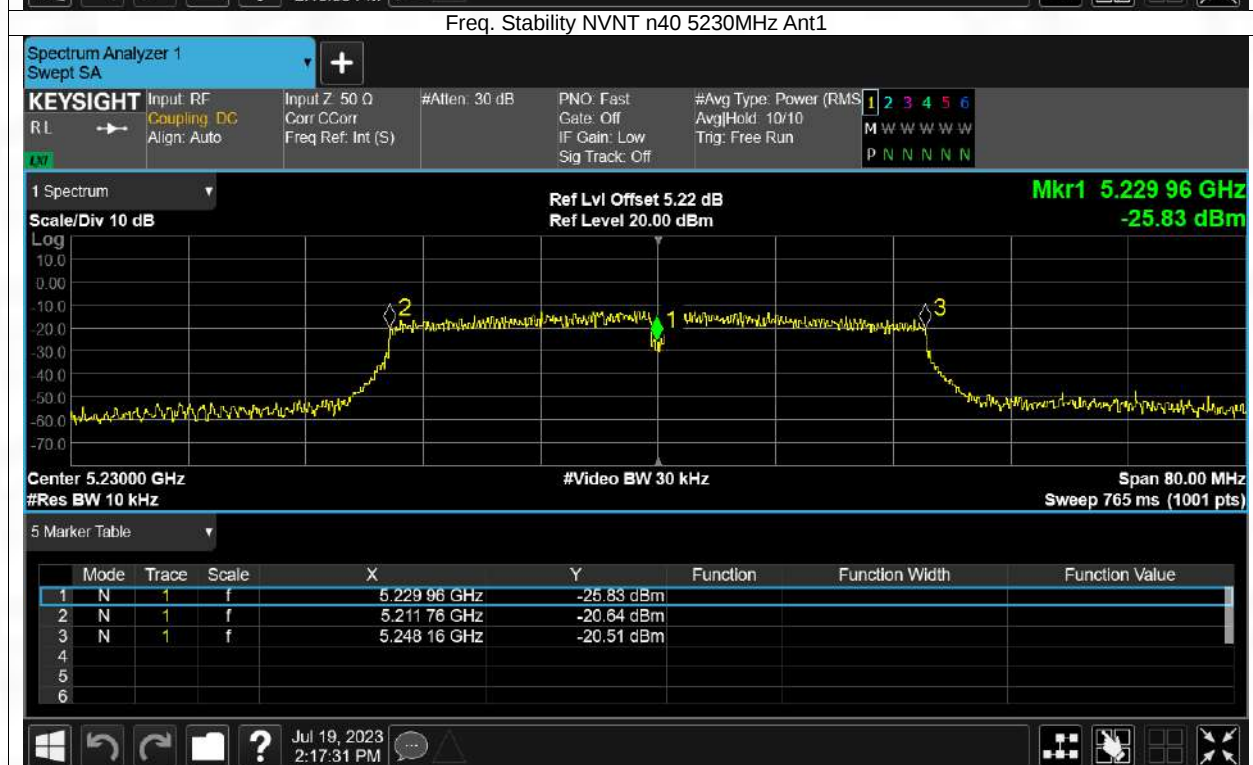
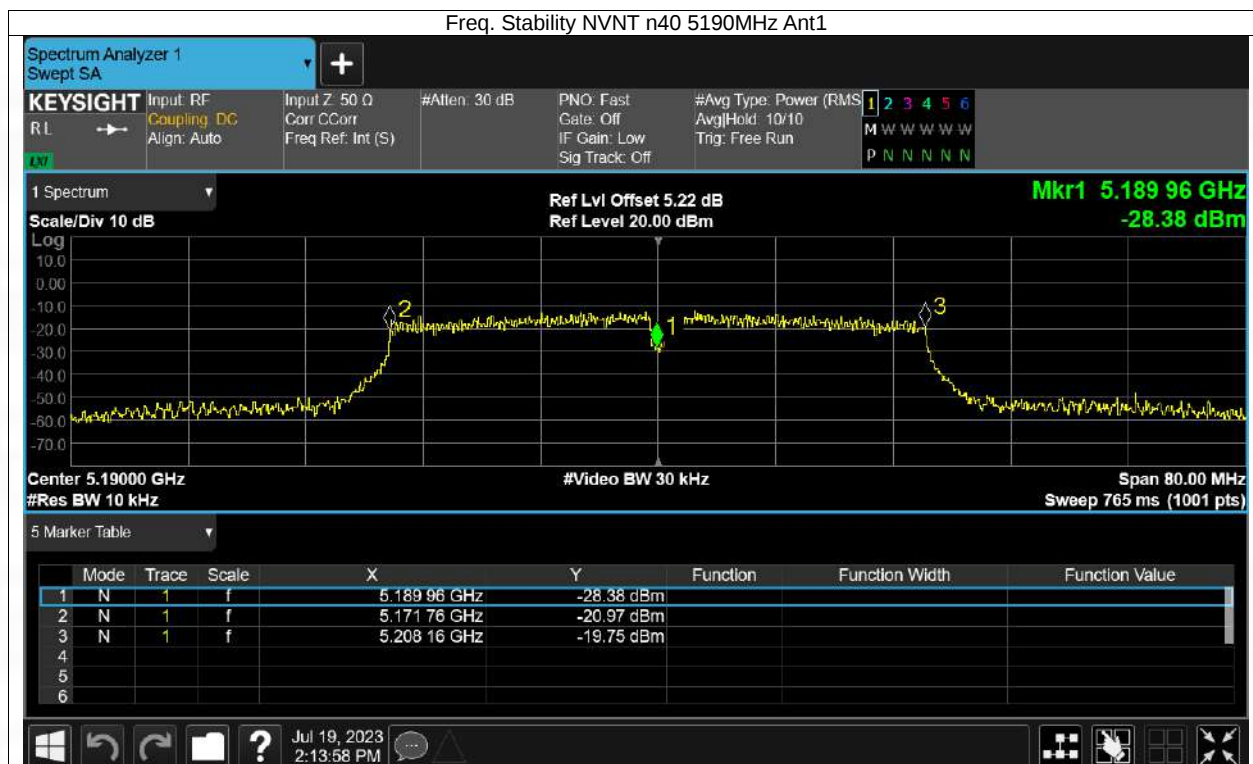


# Freq. Stability NVNT n20 5745MHz Ant1



# Freq. Stability NVNT n20 5825MHz Ant1





# Freq. Stability NVNT n40 5270MHz Ant1



# Freq. Stability NVNT n40 5310MHz Ant1



# Freq. Stability NVNT n40 5510MHz Ant1



# Freq. Stability NVNT n40 5670MHz Ant1

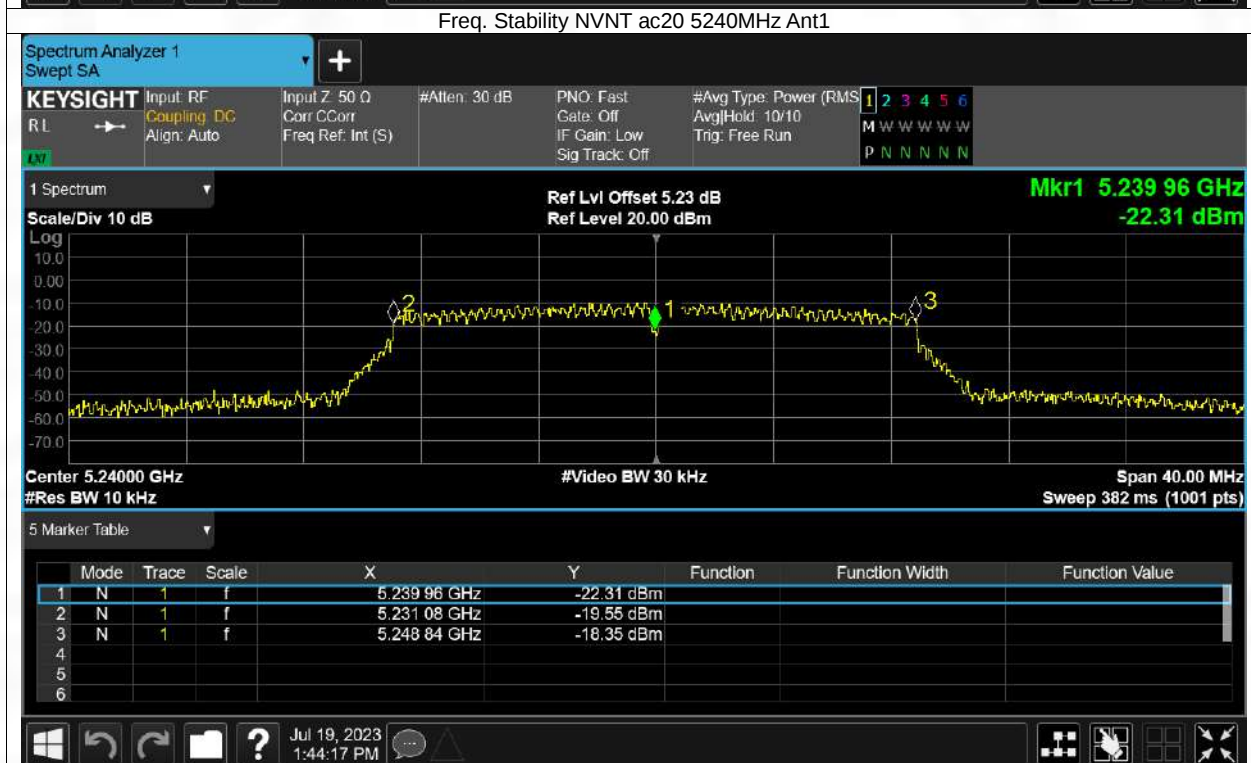
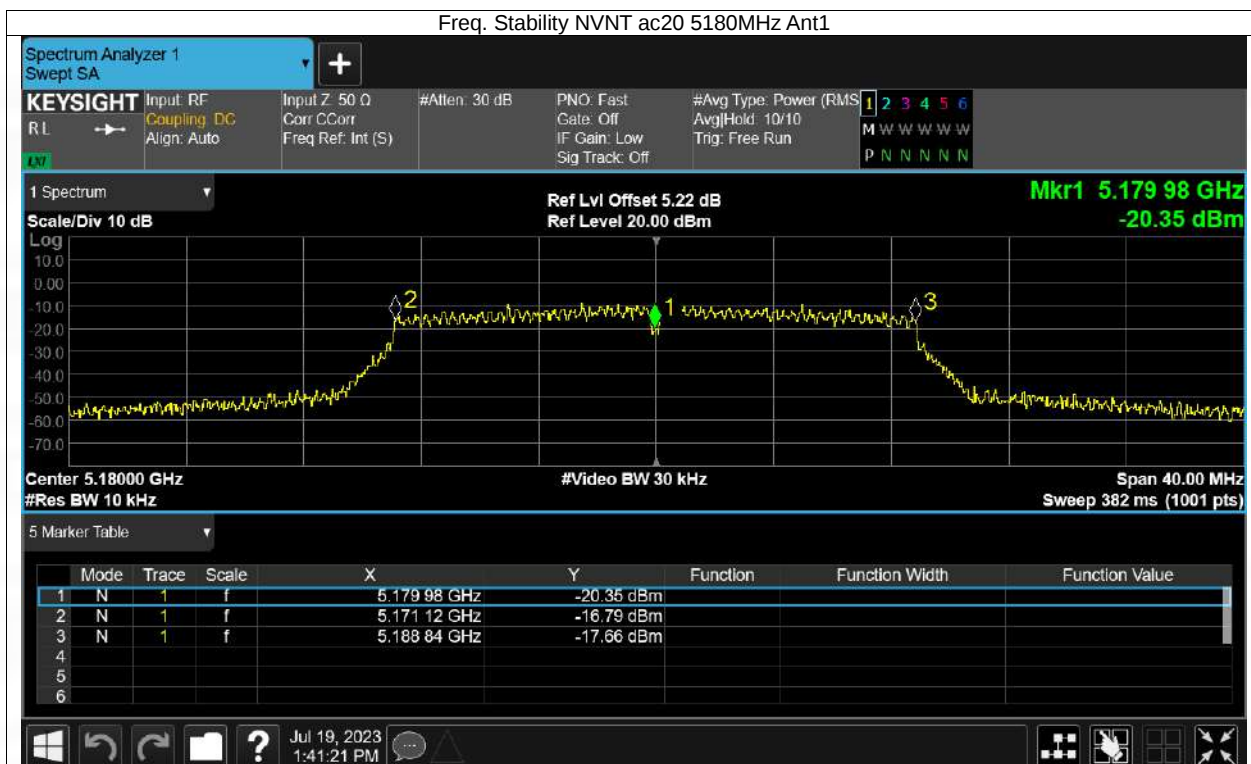


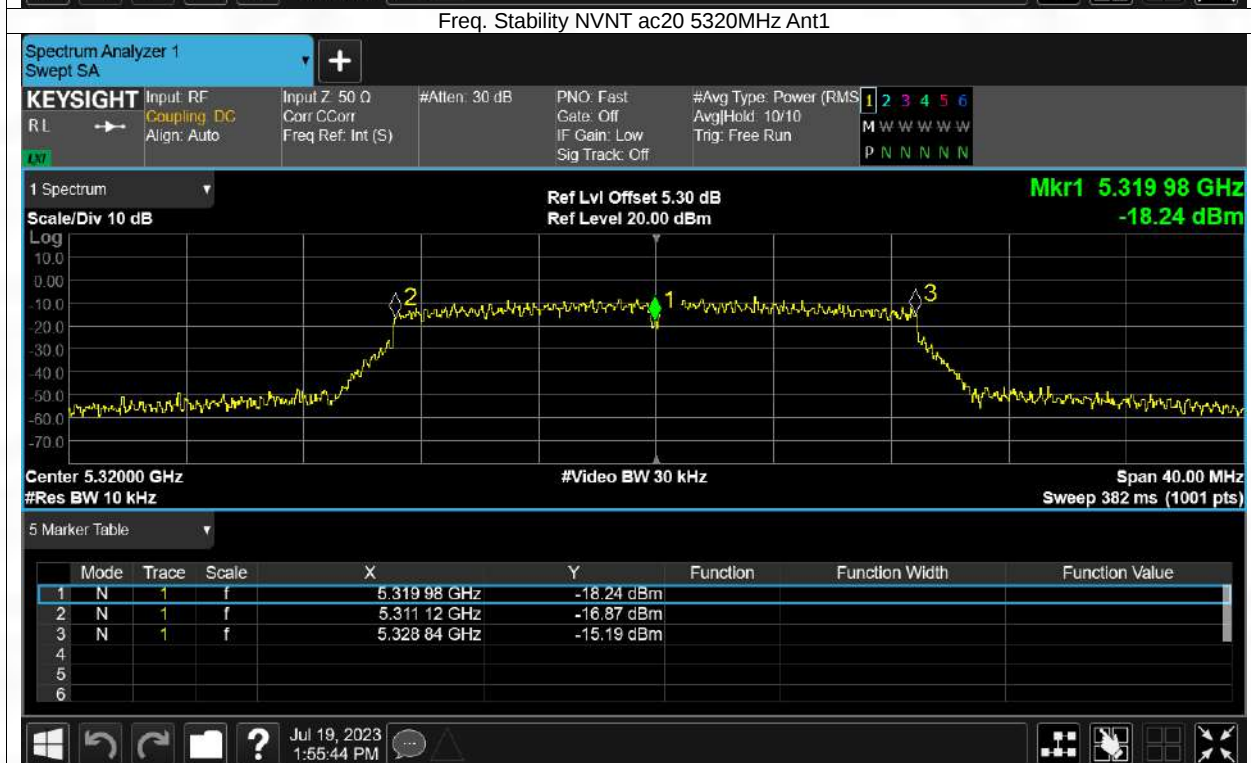
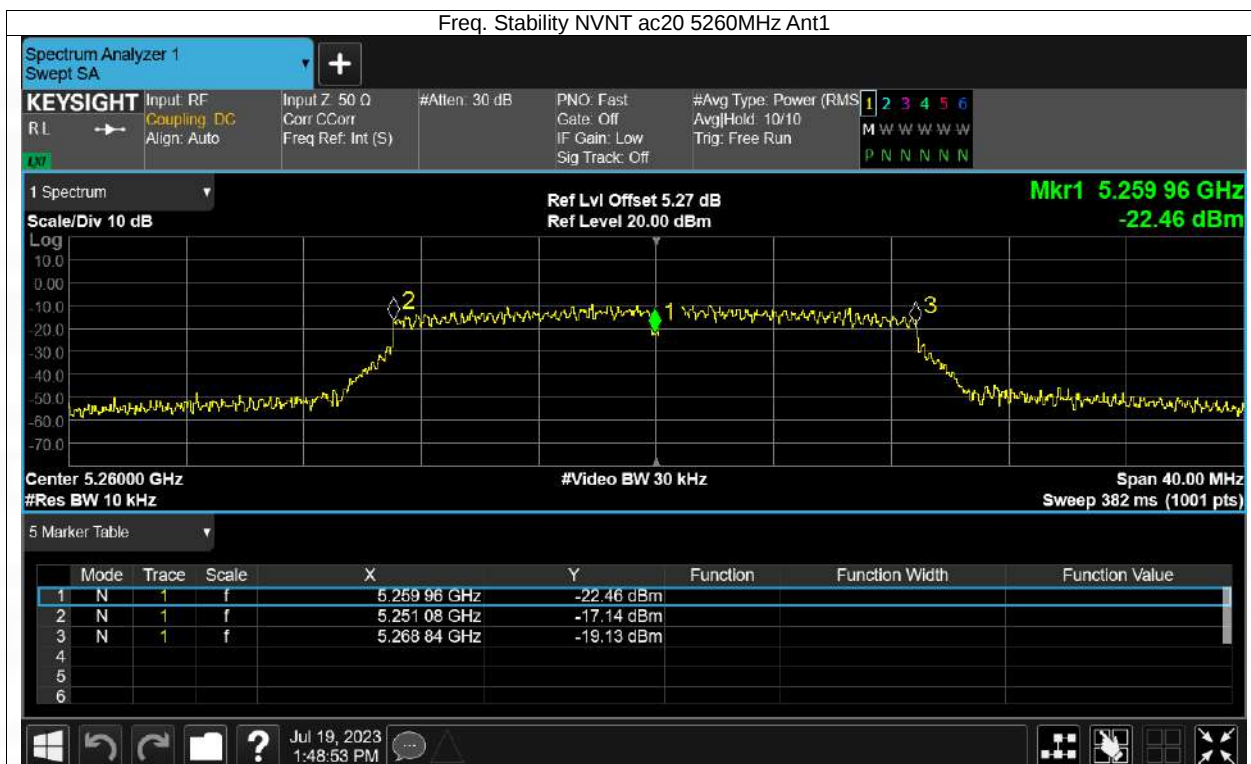
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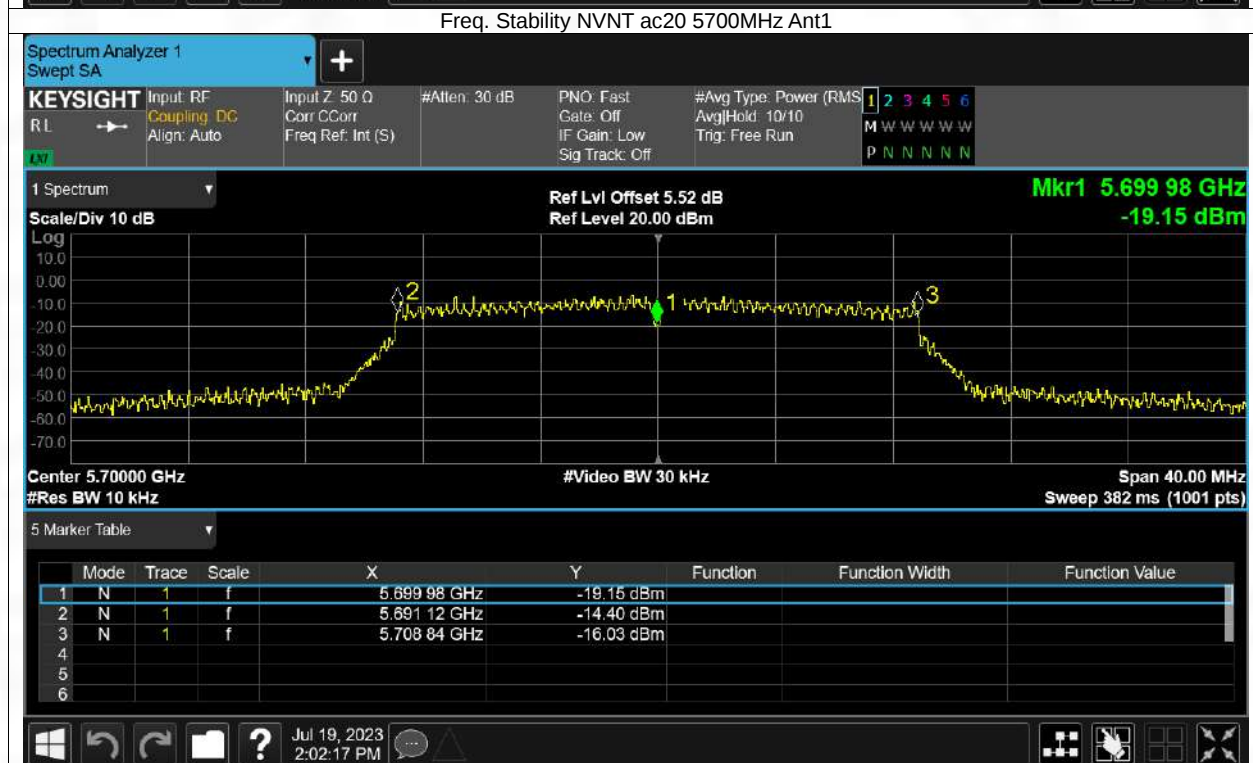
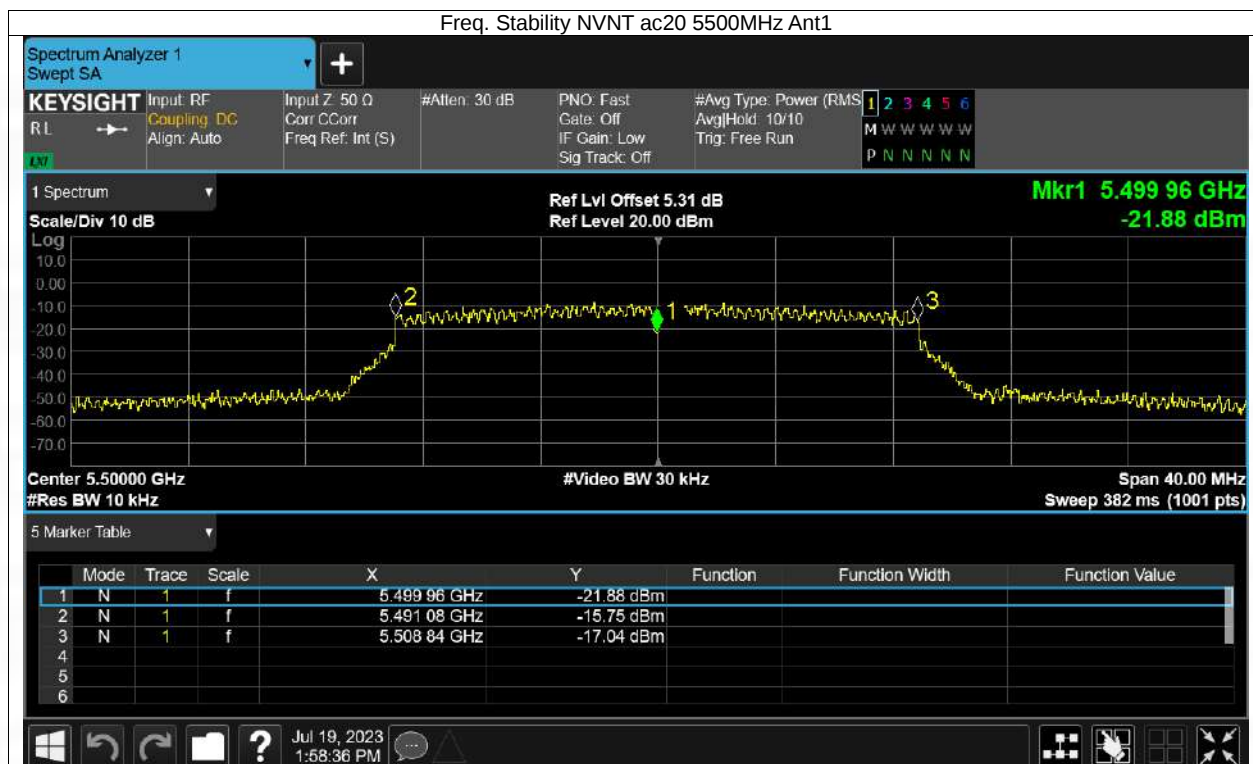


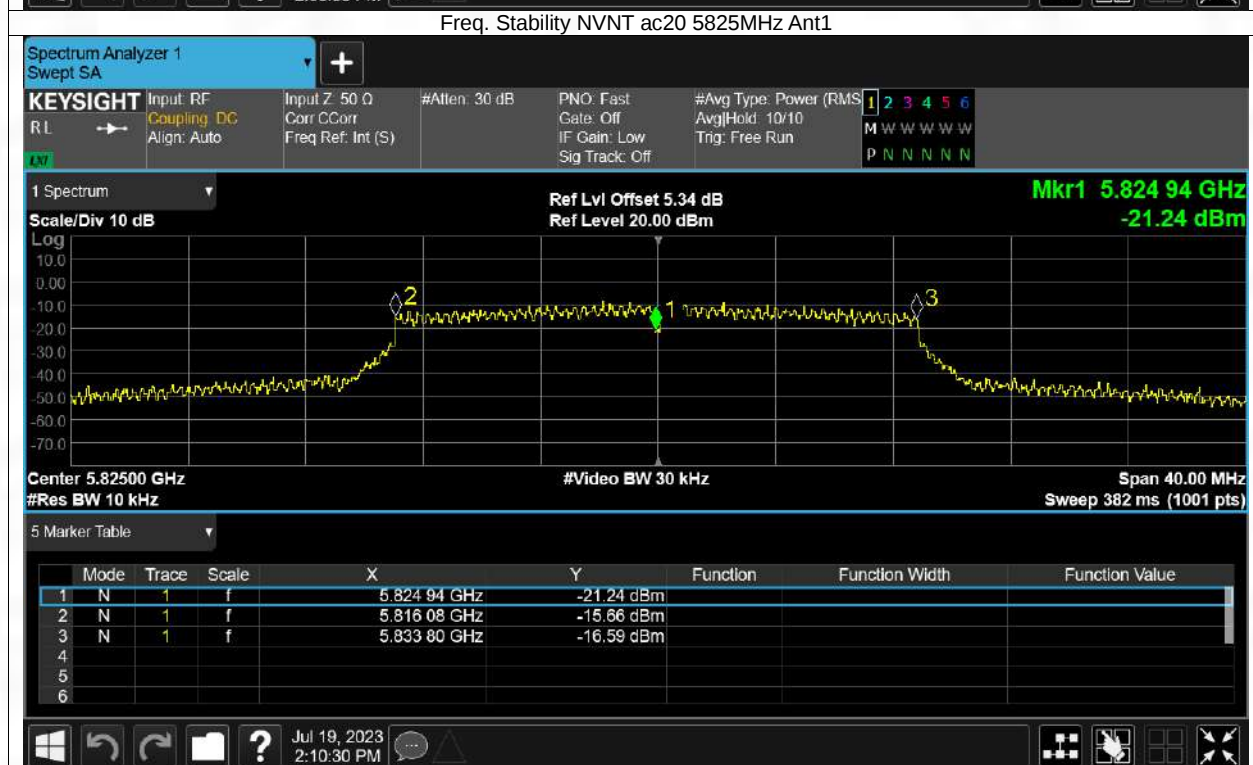
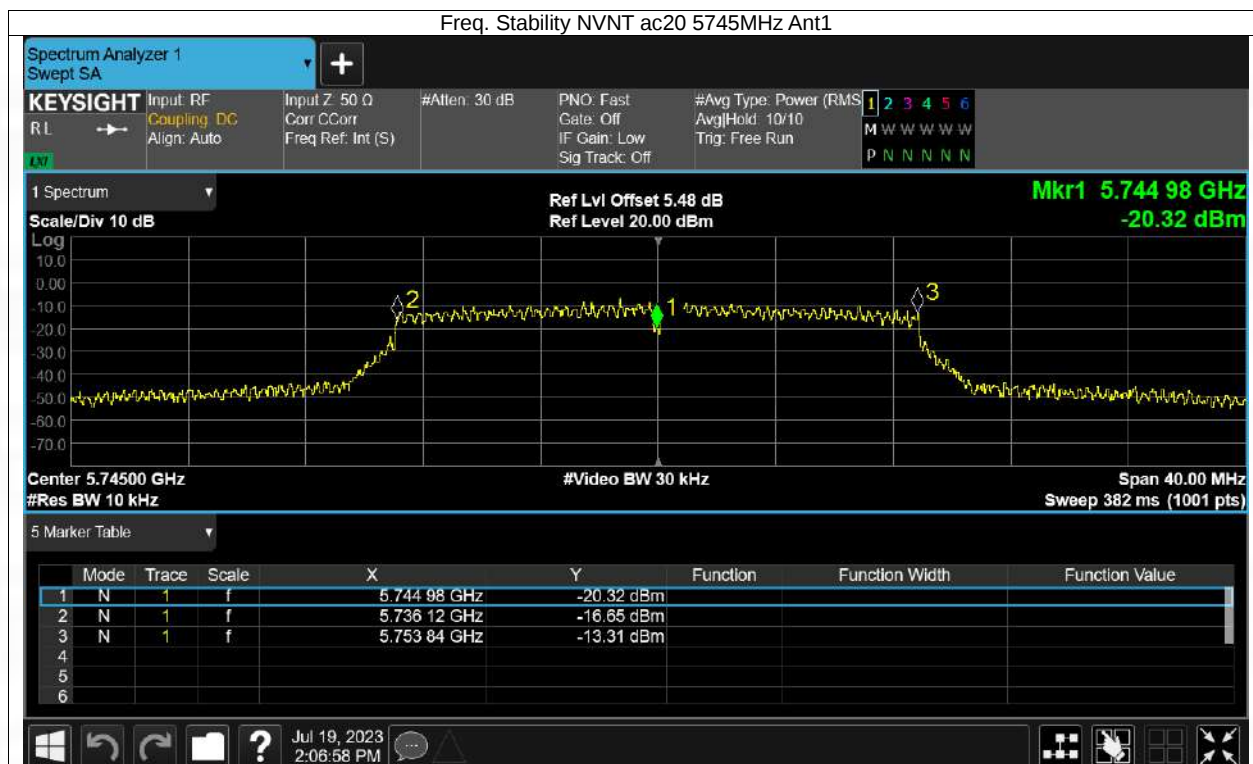
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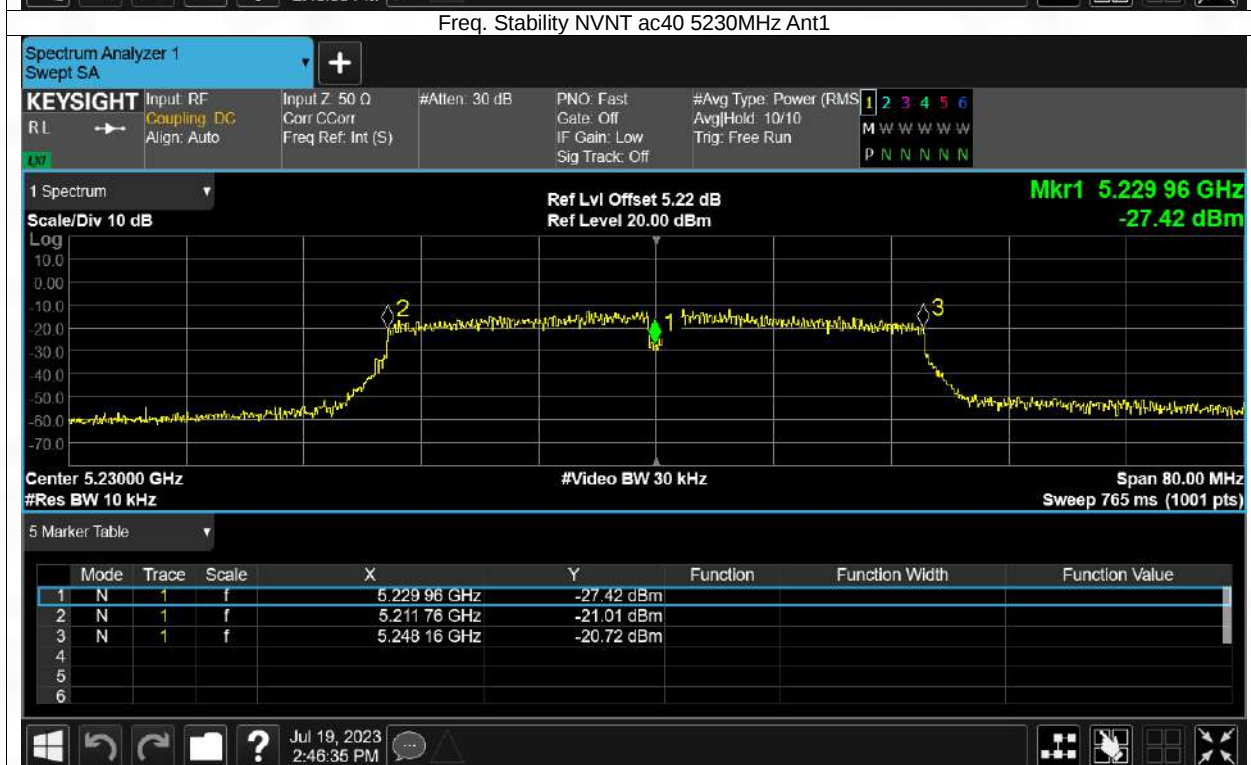
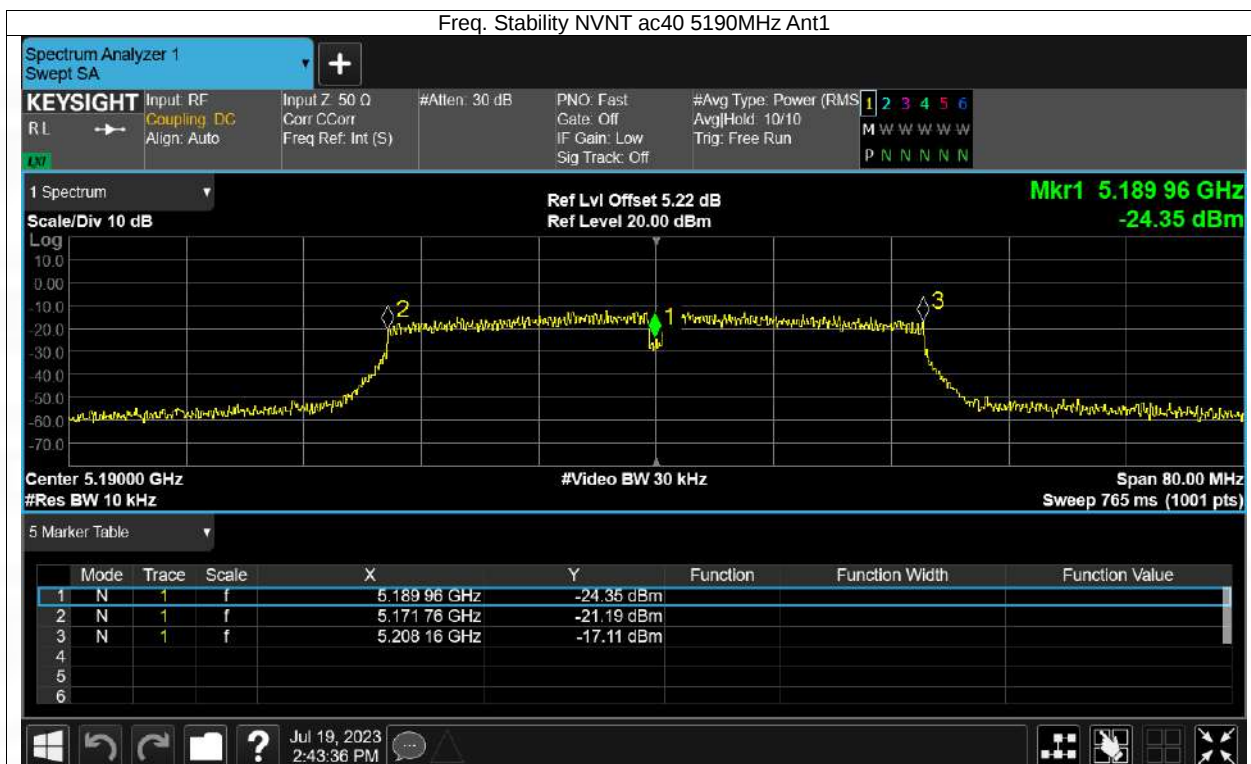


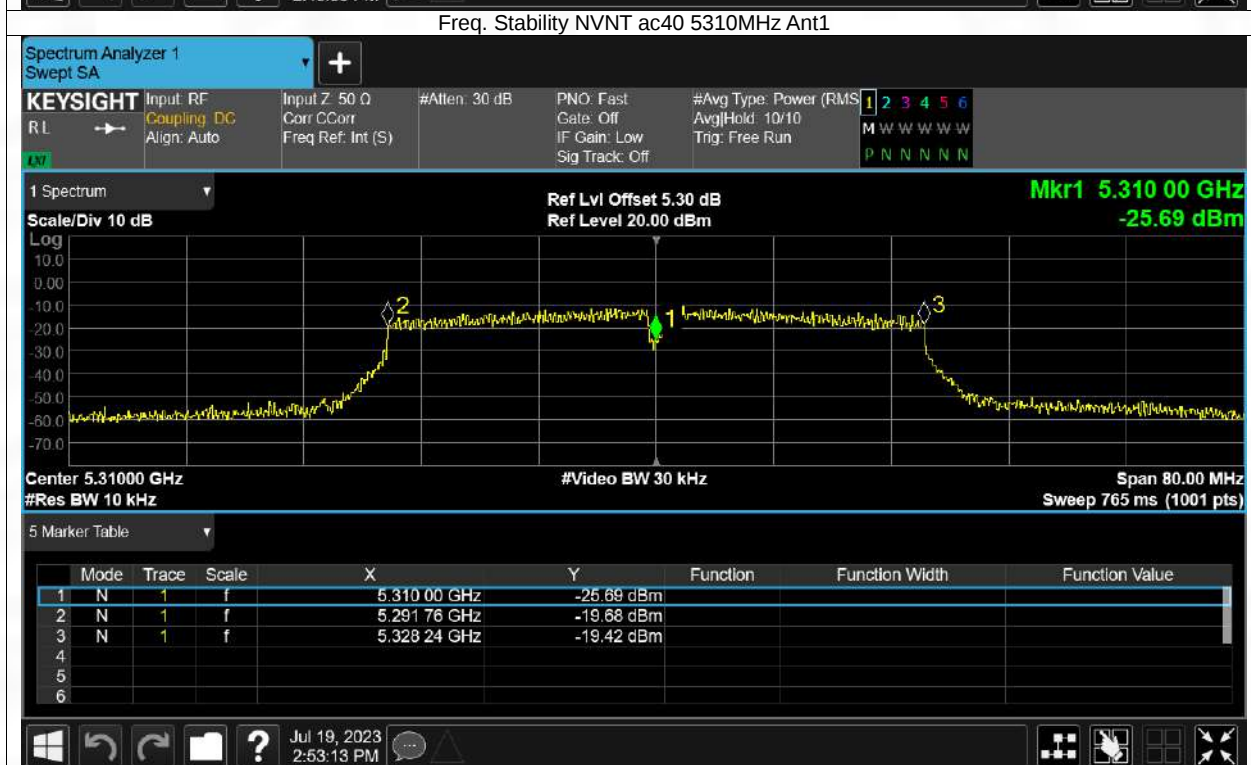
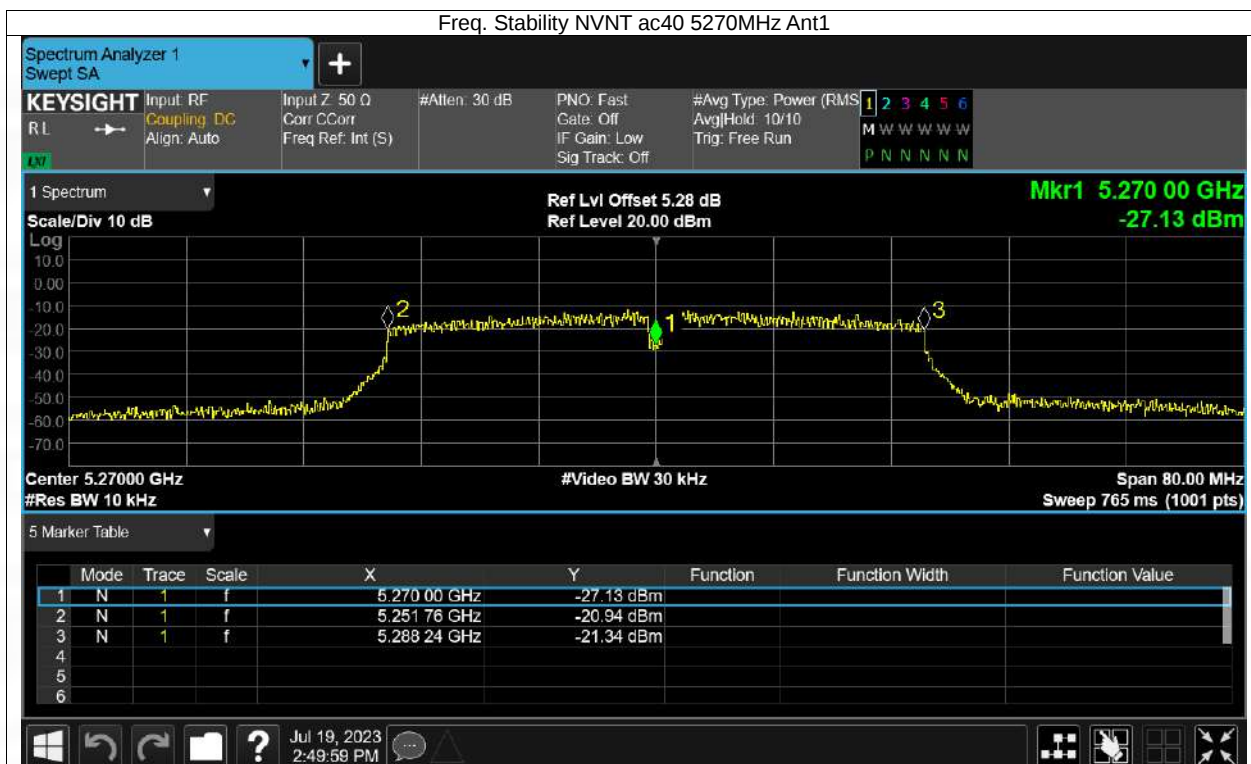


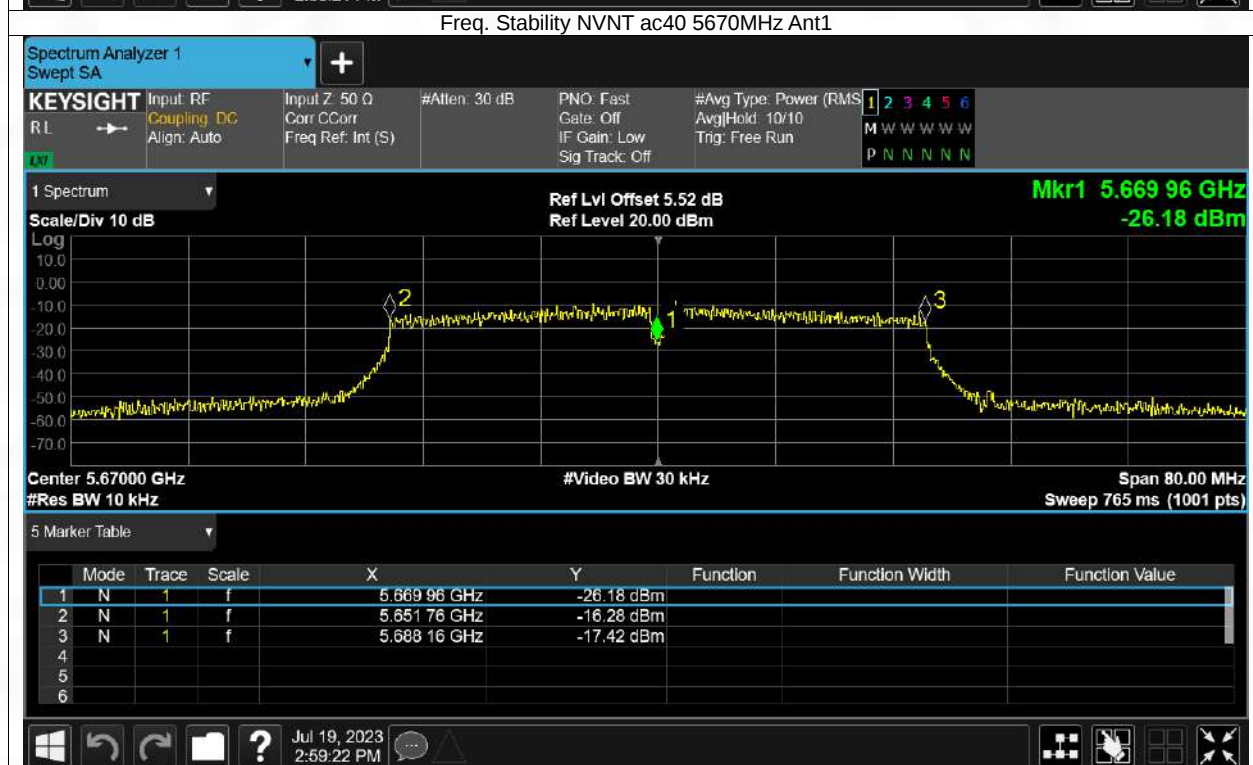
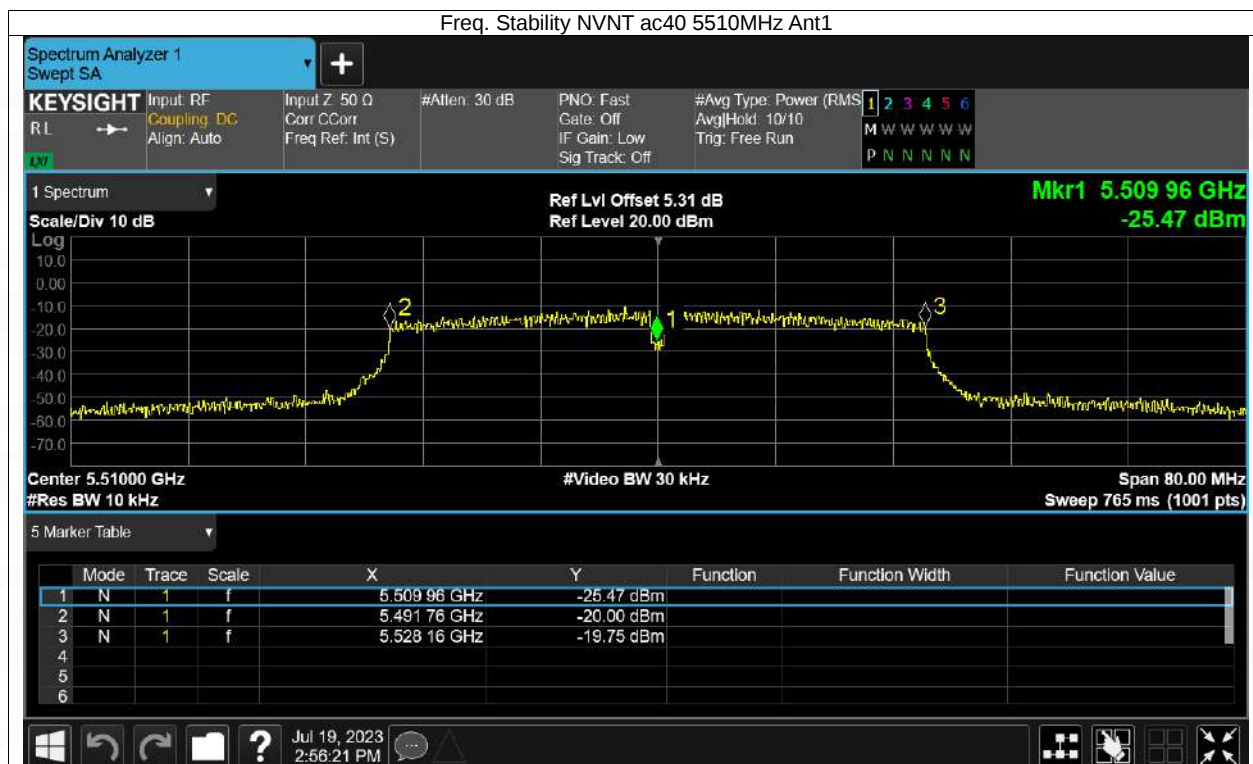


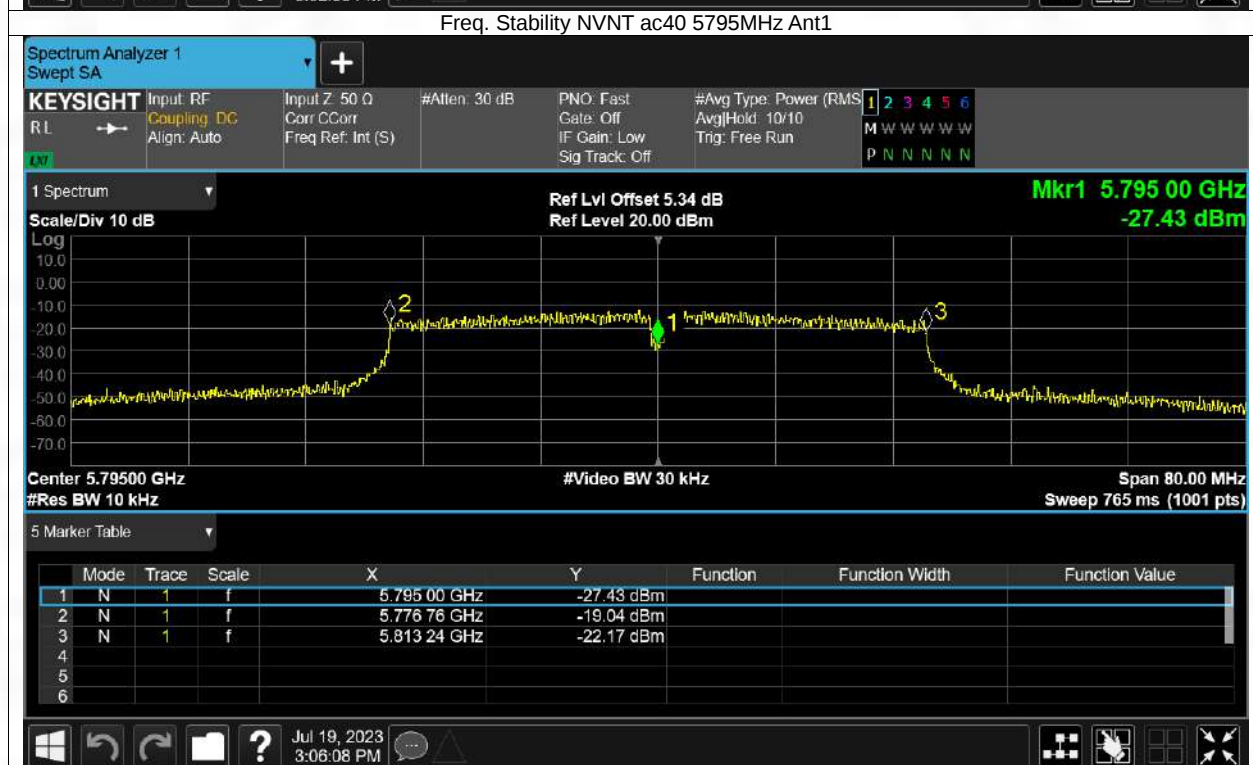
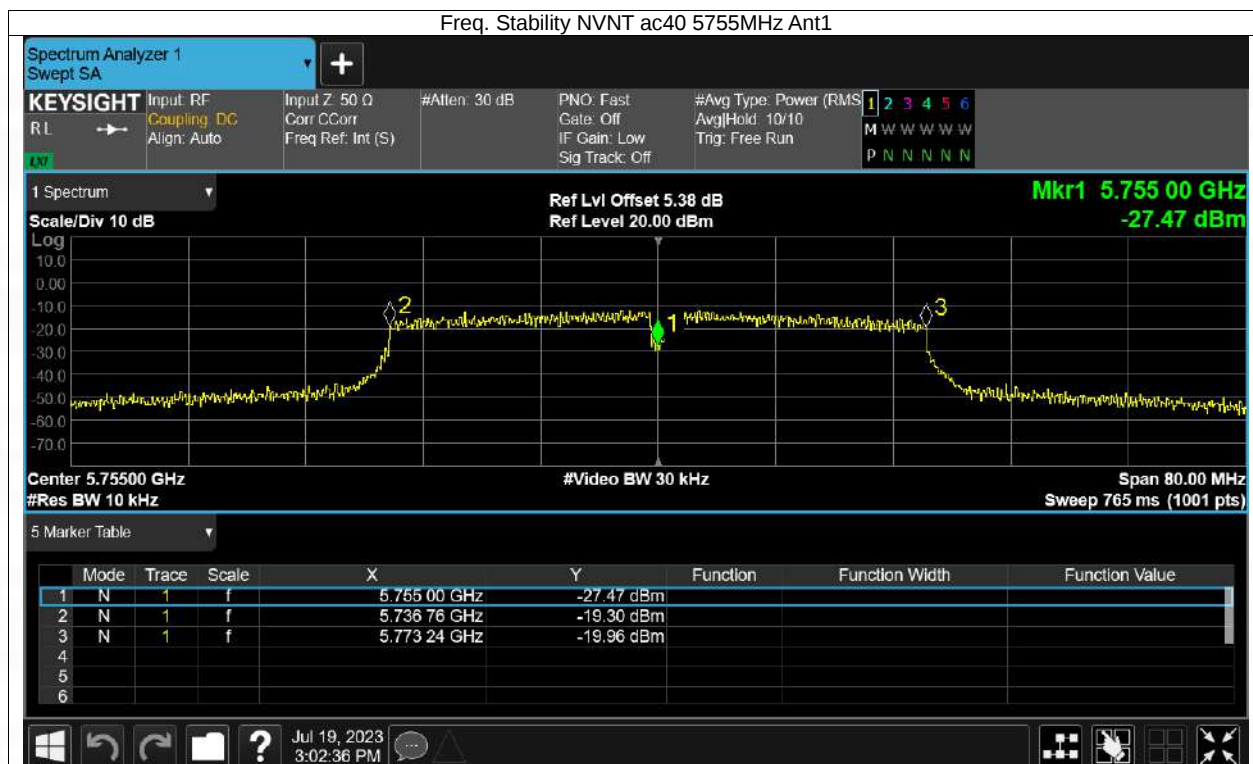


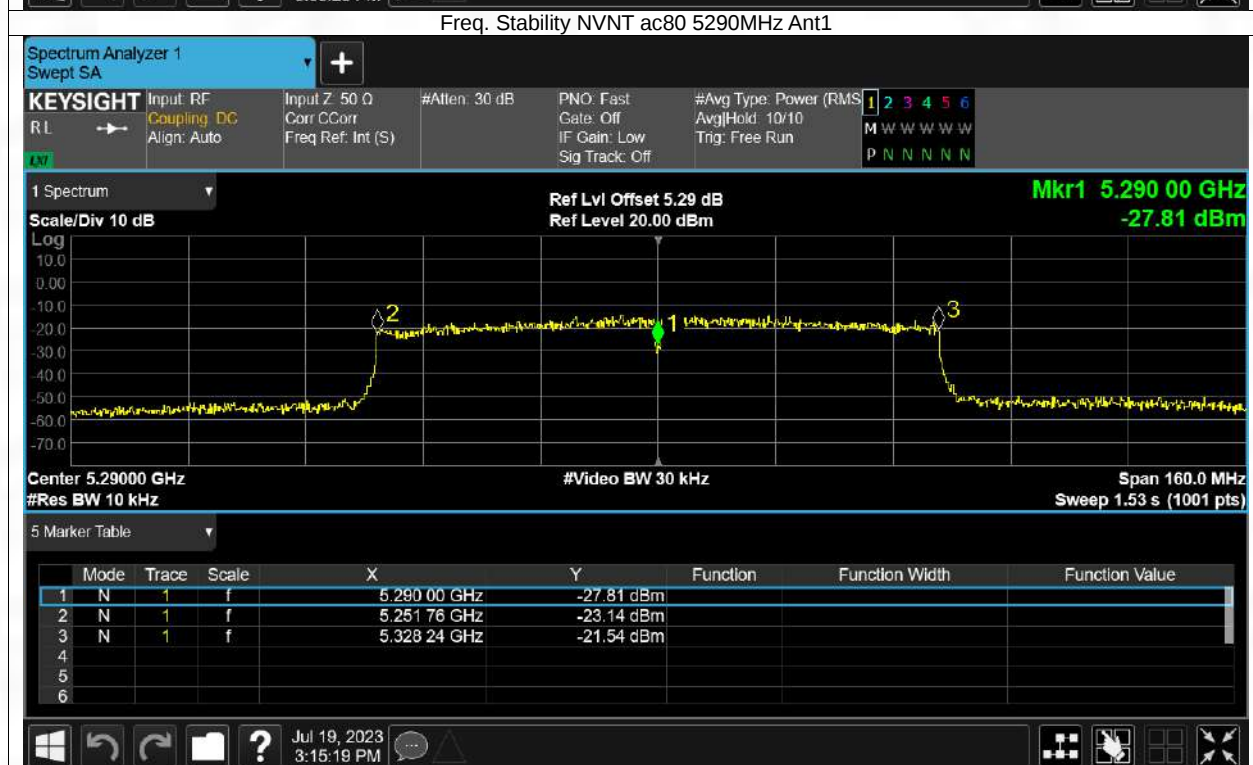
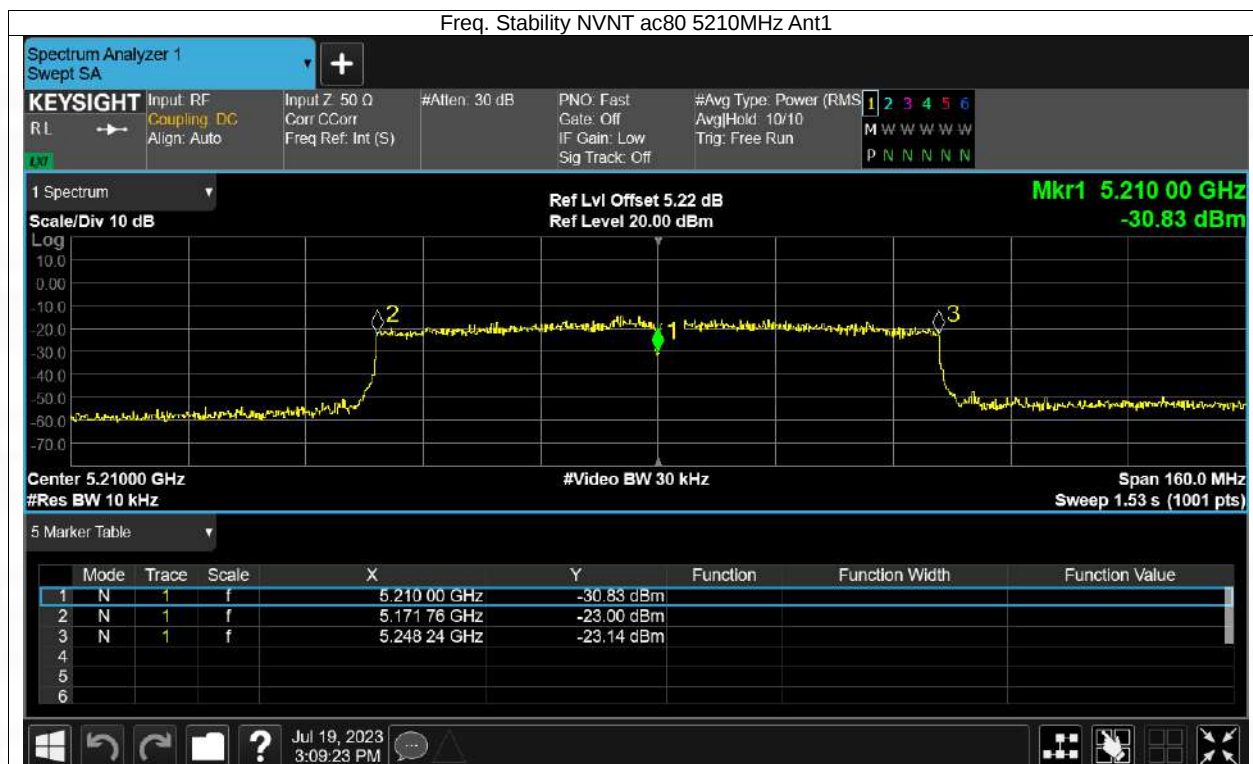


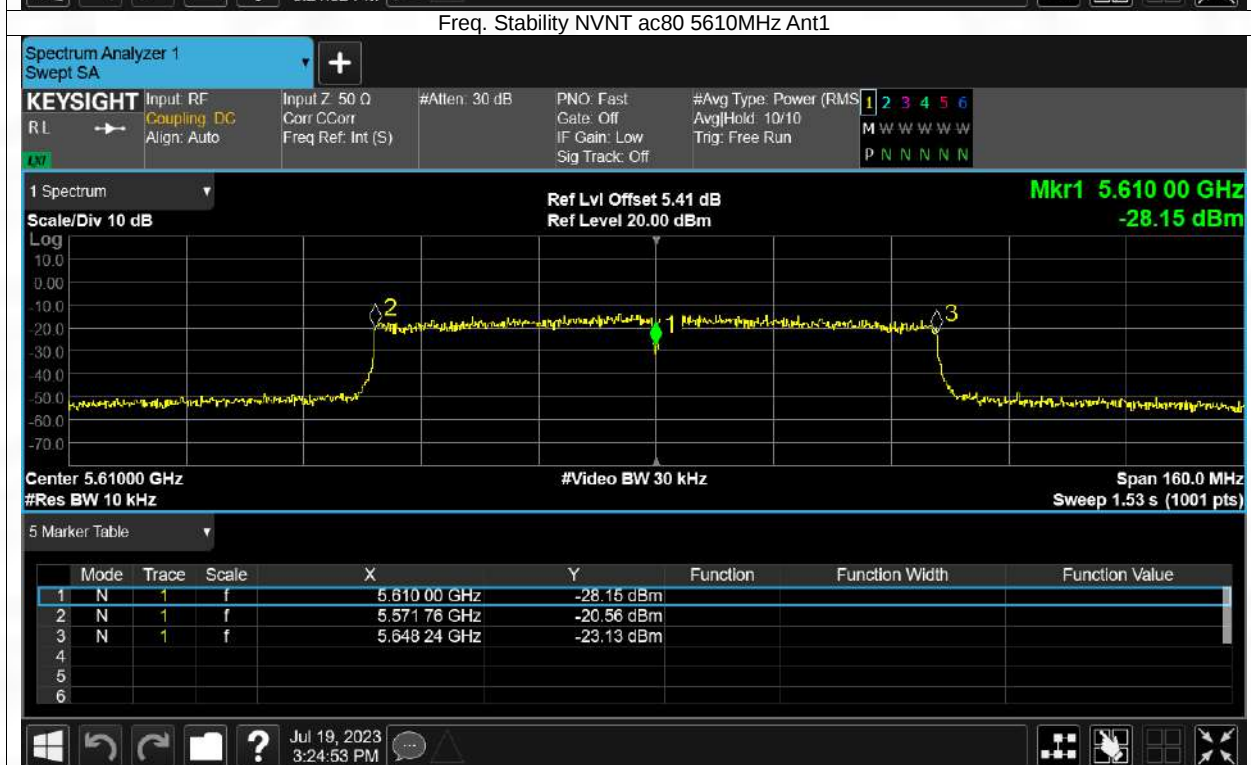
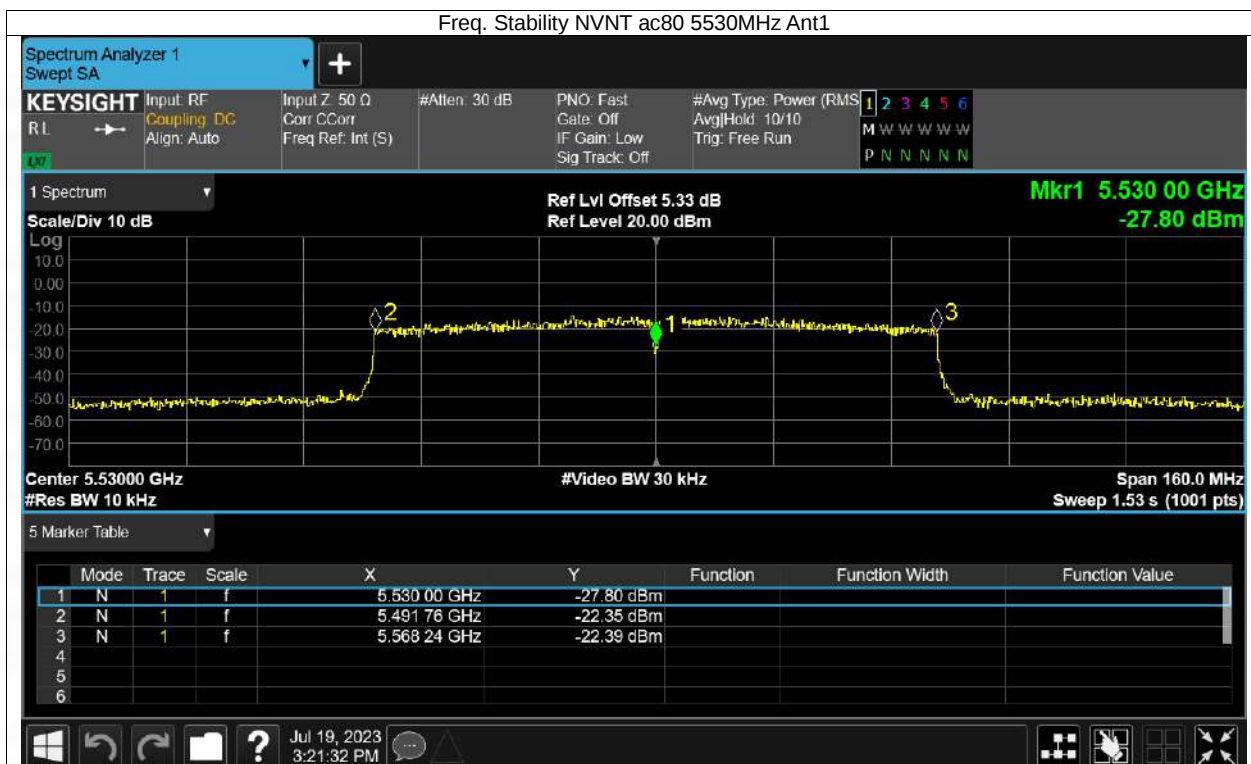


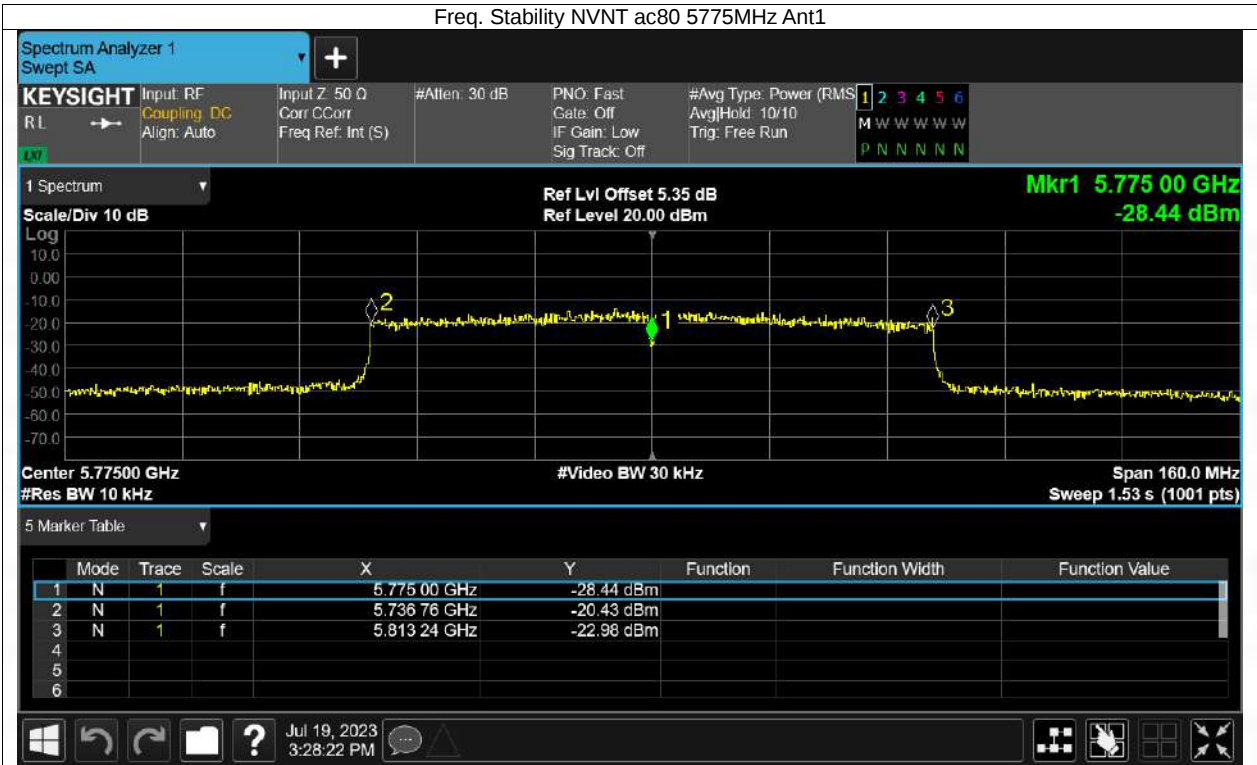














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