



## Appendix E

### RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Car CarPlay Stereo

Test Model: 1026SCP

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.9° C   |
| Relative Humidity: | 52.4%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jose Zhu  |
| Supervised by:     | Nick Peng |



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## E.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 16.355                | $\geq 0.5$                  | Pass    |
| NVNT      | a    | 5785            | Ant1    | 16.333                | $\geq 0.5$                  | Pass    |
| NVNT      | a    | 5825            | Ant1    | 16.308                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 17.399                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 17.555                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 17.24                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 35.913                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 35.933                | $\geq 0.5$                  | Pass    |

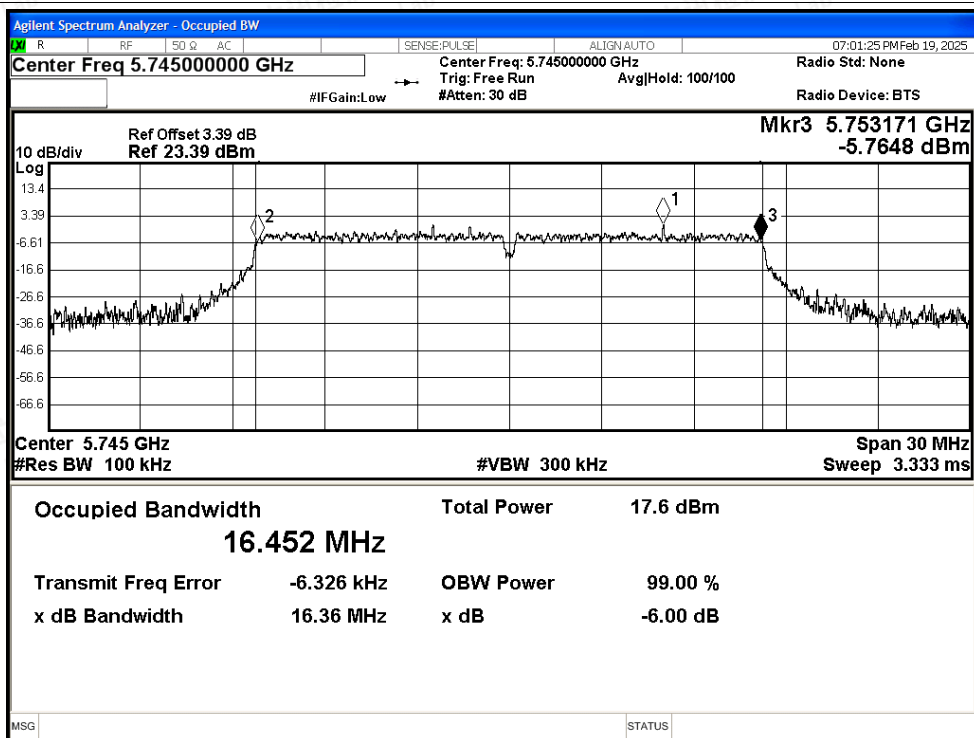


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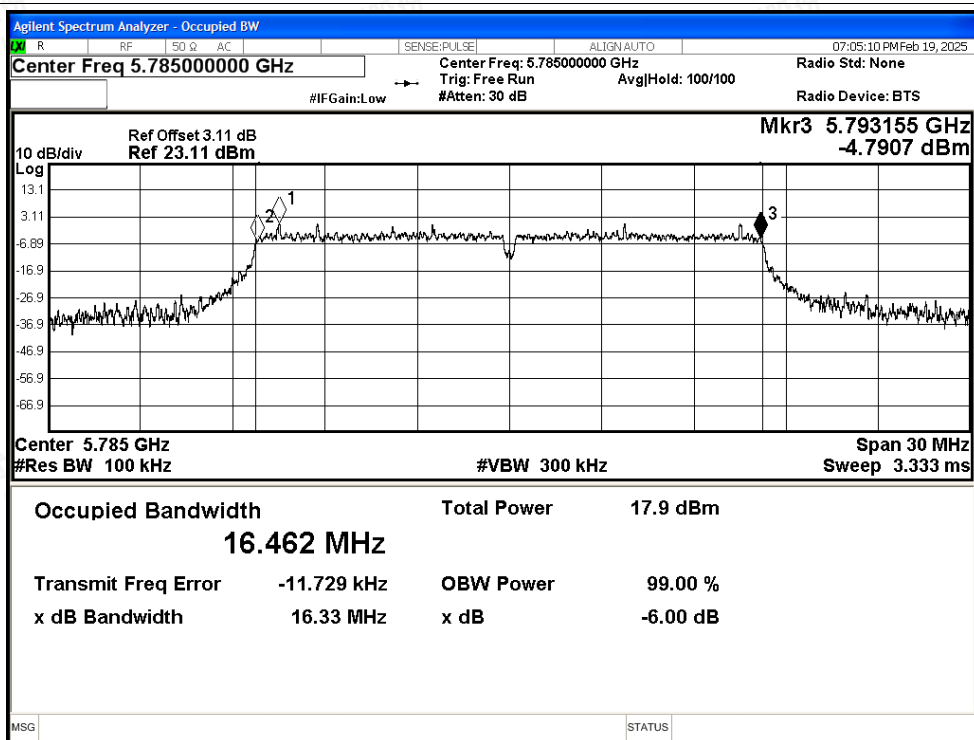


## Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

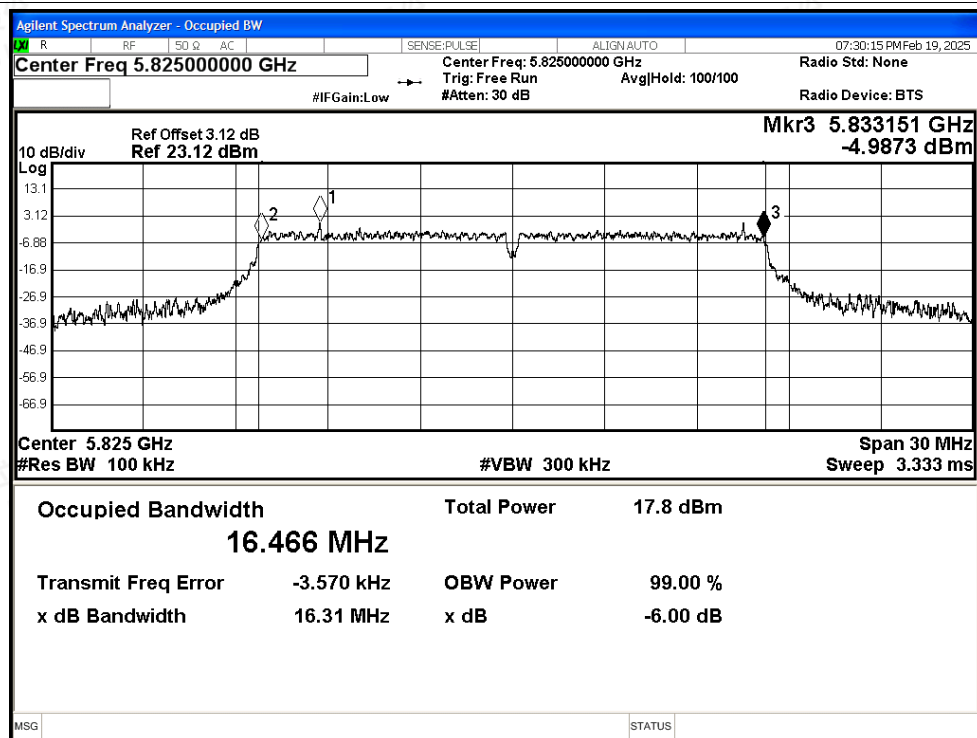


-6dB Bandwidth NVNT a 5785MHz Ant1

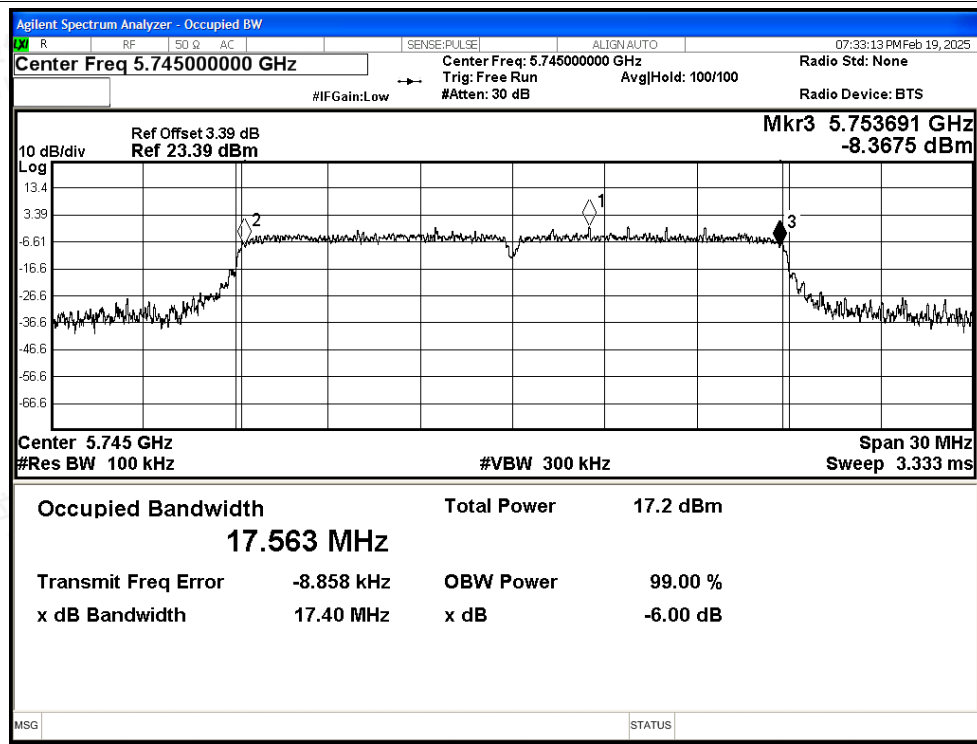




## -6dB Bandwidth NVNT a 5825MHz Ant1

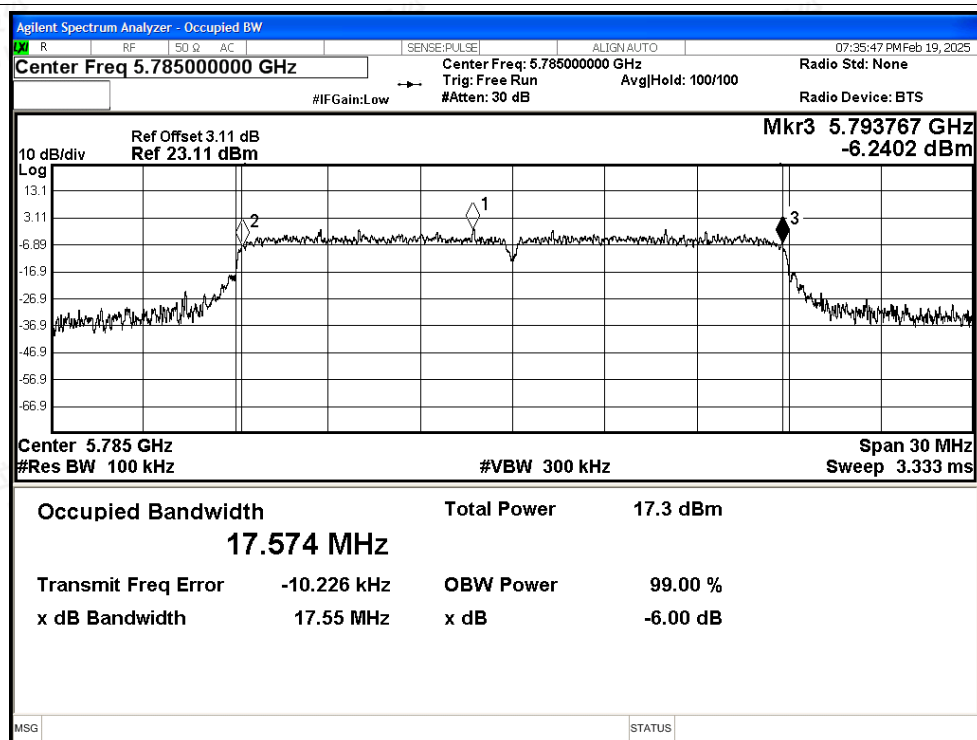


## -6dB Bandwidth NVNT n20 5745MHz Ant1

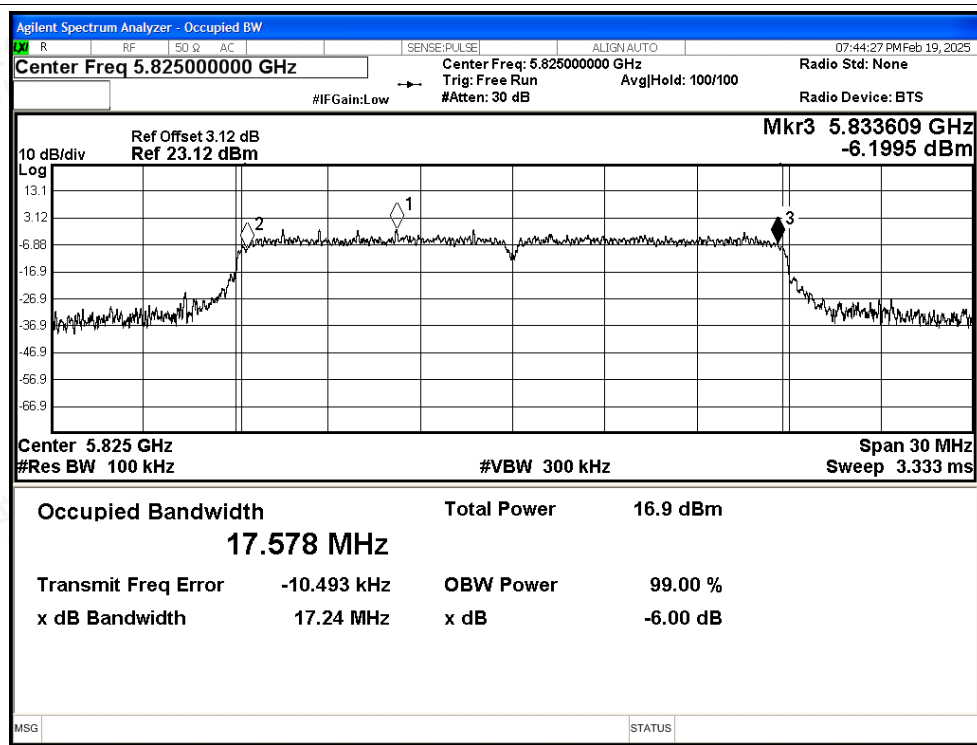




## -6dB Bandwidth NVNT n20 5785MHz Ant1

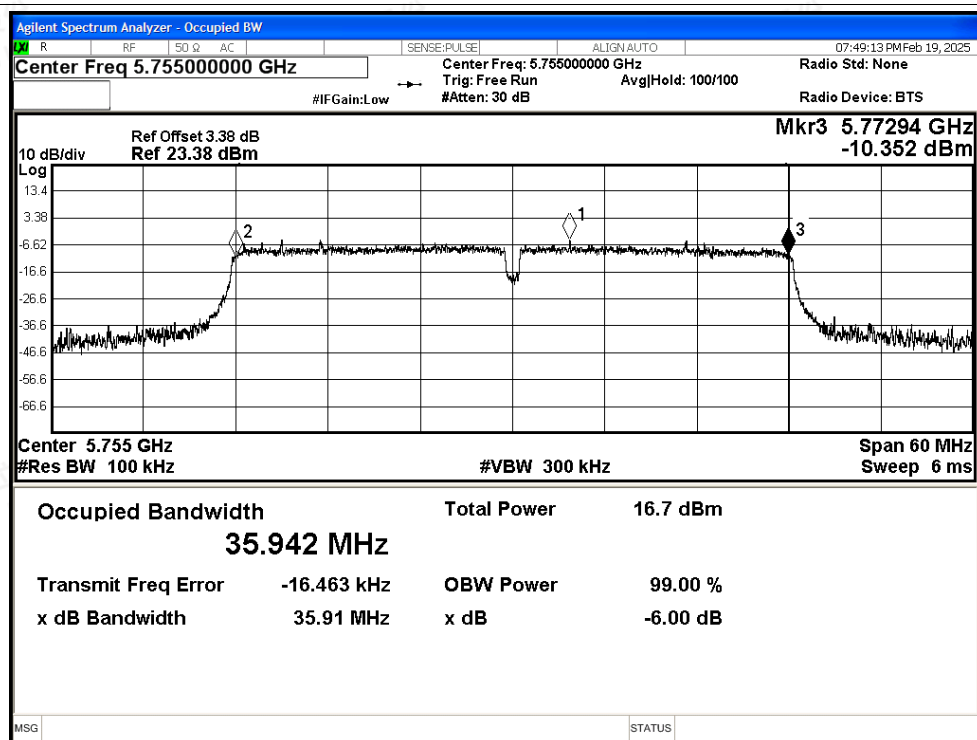


## -6dB Bandwidth NVNT n20 5825MHz Ant1

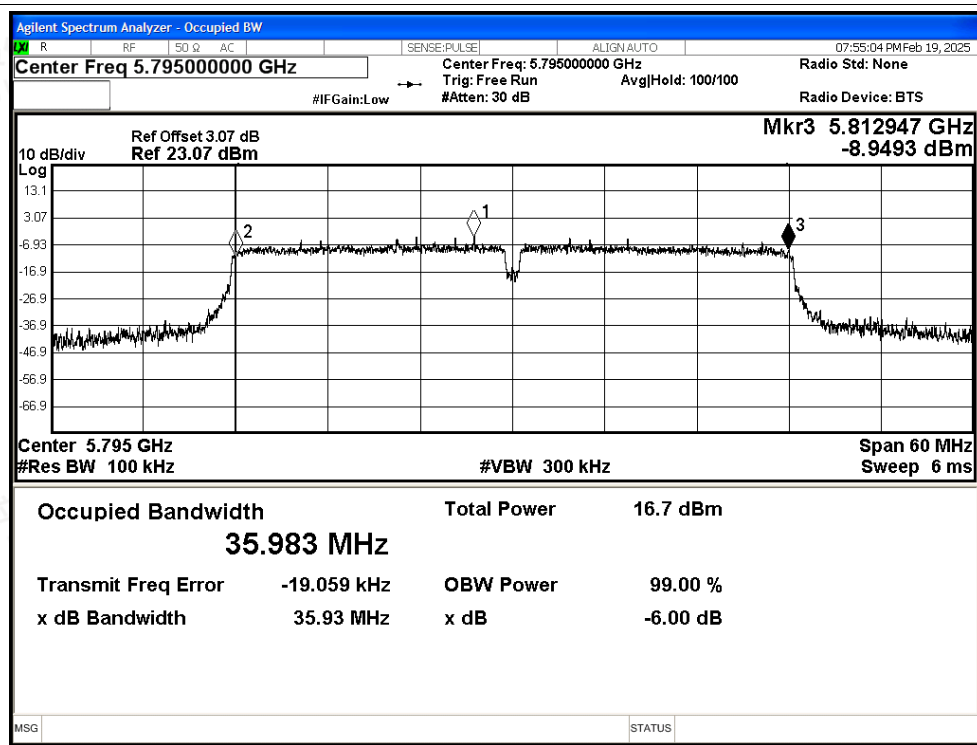




## -6dB Bandwidth NVNT n40 5755MHz Ant1



## -6dB Bandwidth NVNT n40 5795MHz Ant1





## E.2 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    | 11.85                    | 0.13                | 11.98                | 30             | Pass    |
| NVNT      | a    | 5785               | Ant1    | 11.99                    | 0.13                | 12.12                | 30             | Pass    |
| NVNT      | a    | 5825               | Ant1    | 11.88                    | 0.13                | 12.01                | 30             | Pass    |
| NVNT      | n20  | 5745               | Ant1    | 10.87                    | 0.15                | 11.02                | 30             | Pass    |
| NVNT      | n20  | 5785               | Ant1    | 11                       | 0.15                | 11.15                | 30             | Pass    |
| NVNT      | n20  | 5825               | Ant1    | 10.6                     | 0.16                | 10.76                | 30             | Pass    |
| NVNT      | n40  | 5755               | Ant1    | 10.32                    | 0.12                | 10.44                | 30             | Pass    |
| NVNT      | n40  | 5795               | Ant1    | 10.34                    | 0.12                | 10.46                | 30             | Pass    |



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### E.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/500KHz) | Duty Factor (dB) | Total PSD (dBm/500KHz) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|----------------------------|------------------|------------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -1.52                      | 0.13             | -1.39                  | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | -1.54                      | 0.13             | -1.41                  | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | -1.77                      | 0.13             | -1.64                  | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -2.88                      | 0.15             | -2.73                  | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -2.83                      | 0.15             | -2.68                  | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -3.12                      | 0.16             | -2.96                  | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -6.49                      | 0.12             | -6.37                  | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -6.33                      | 0.12             | -6.21                  | 30          | Pass    |

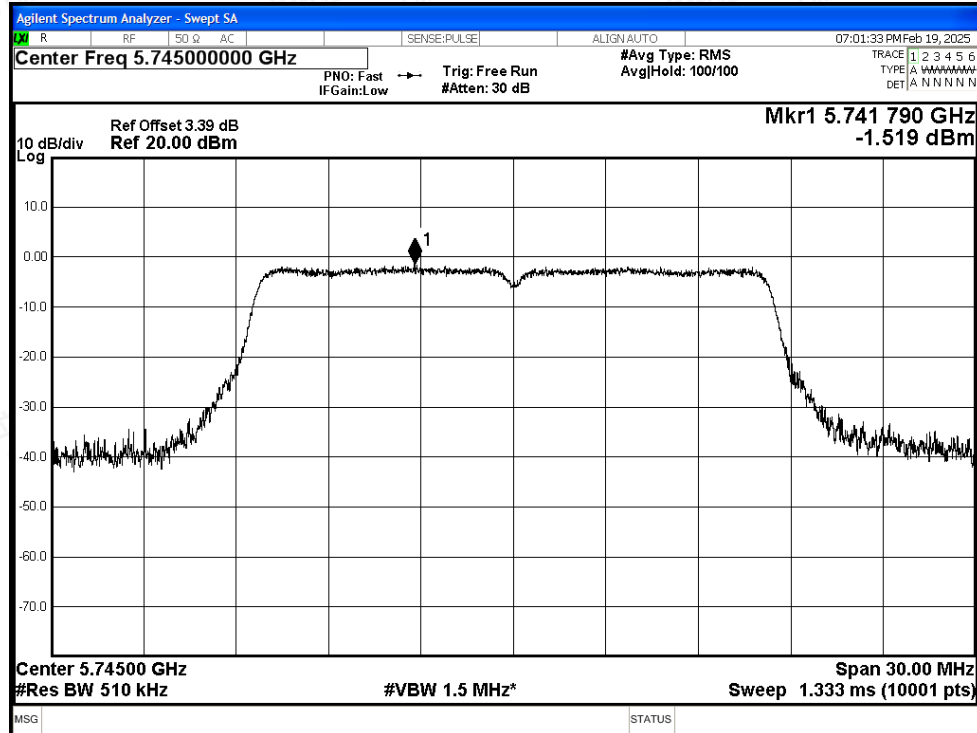


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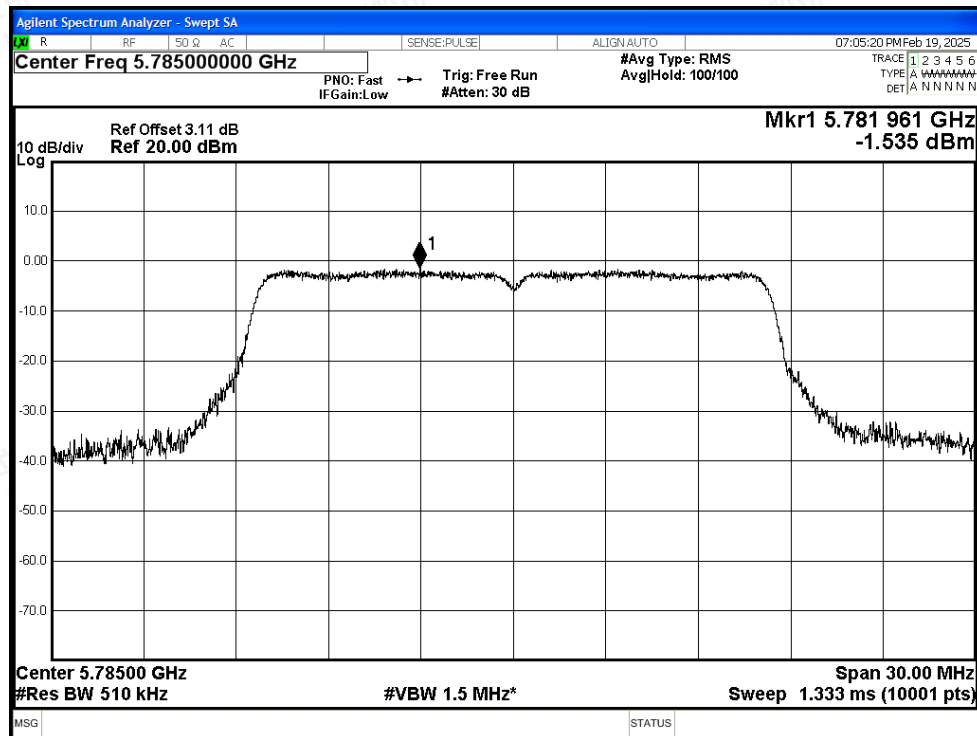


## Test Graphs

PSD NVNT a 5745MHz Ant1

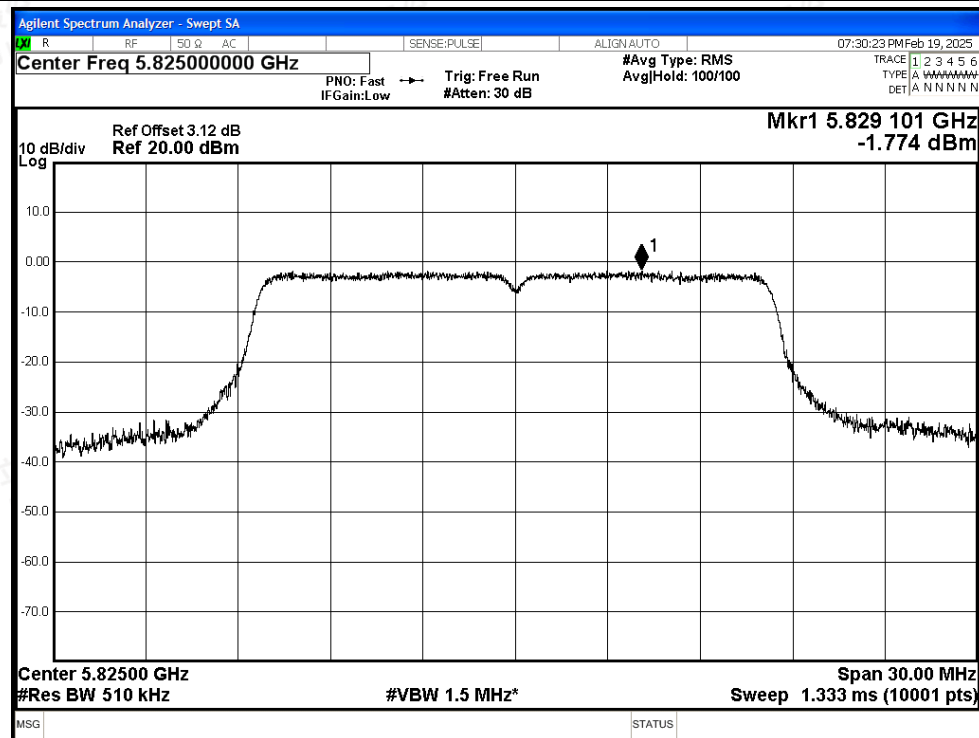


PSD NVNT a 5785MHz Ant1

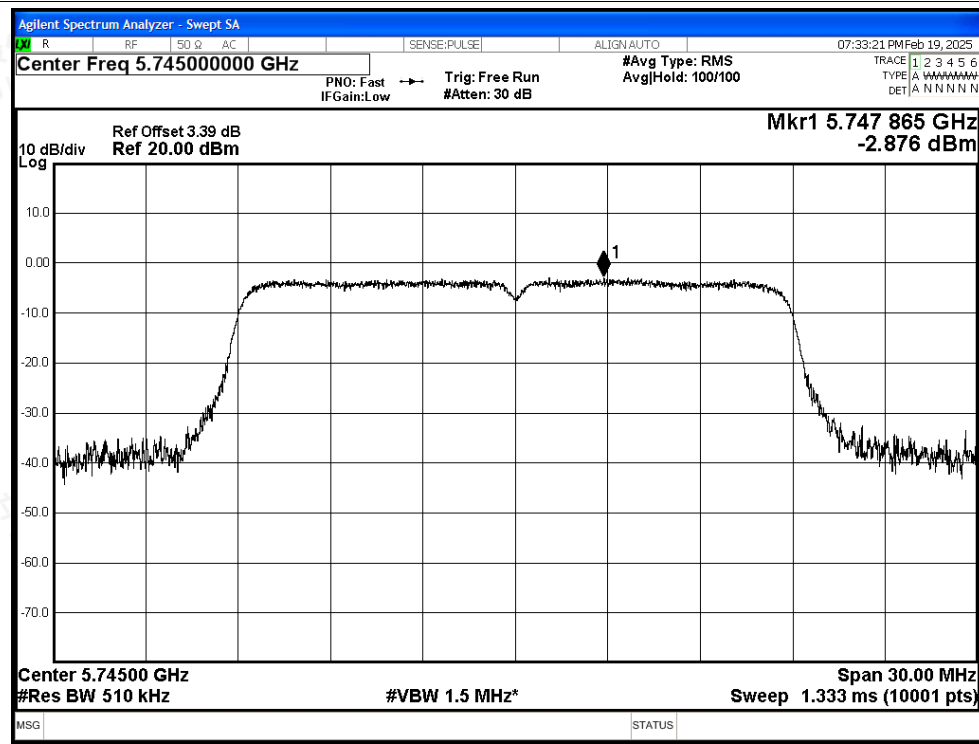


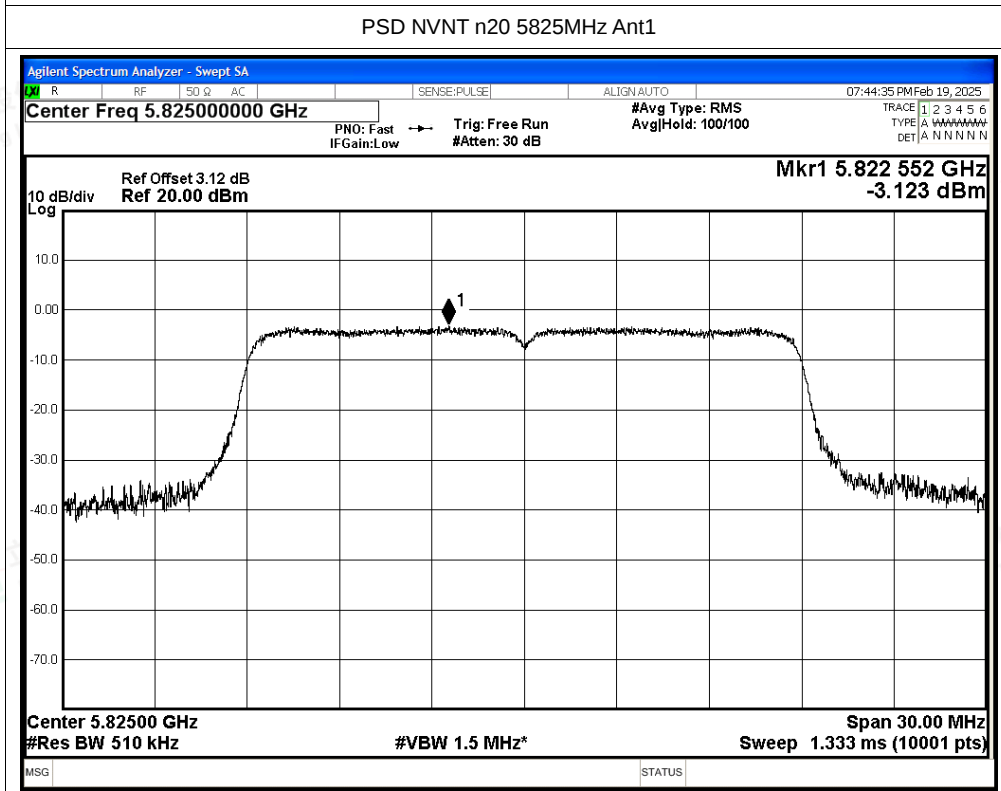
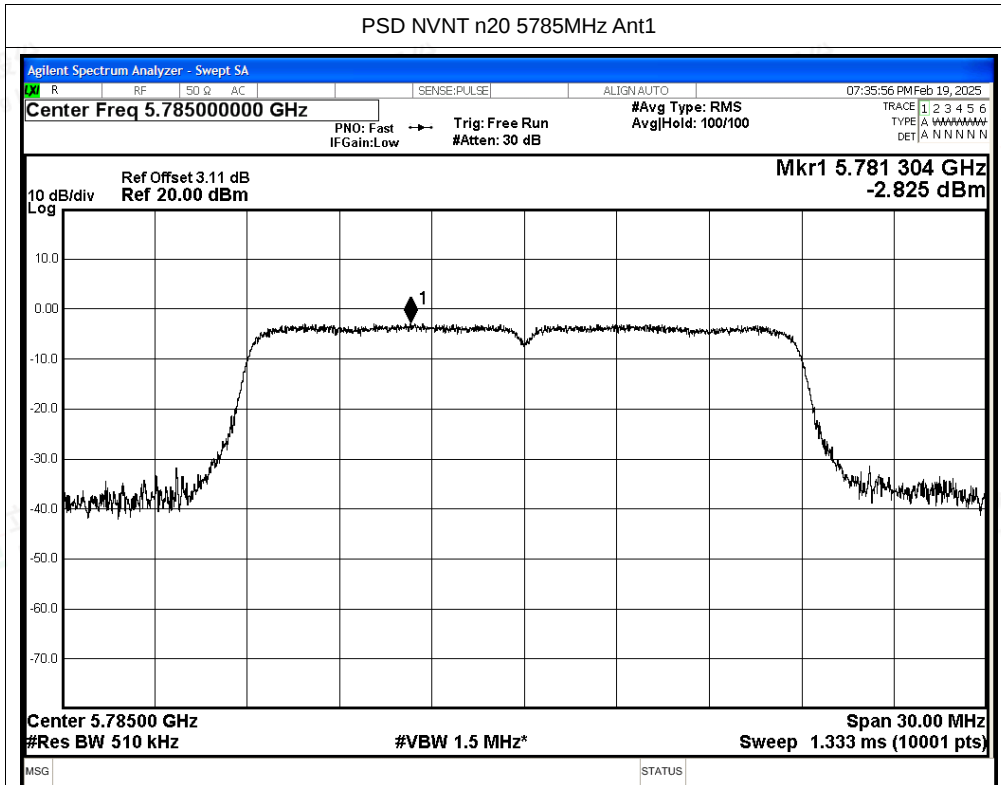


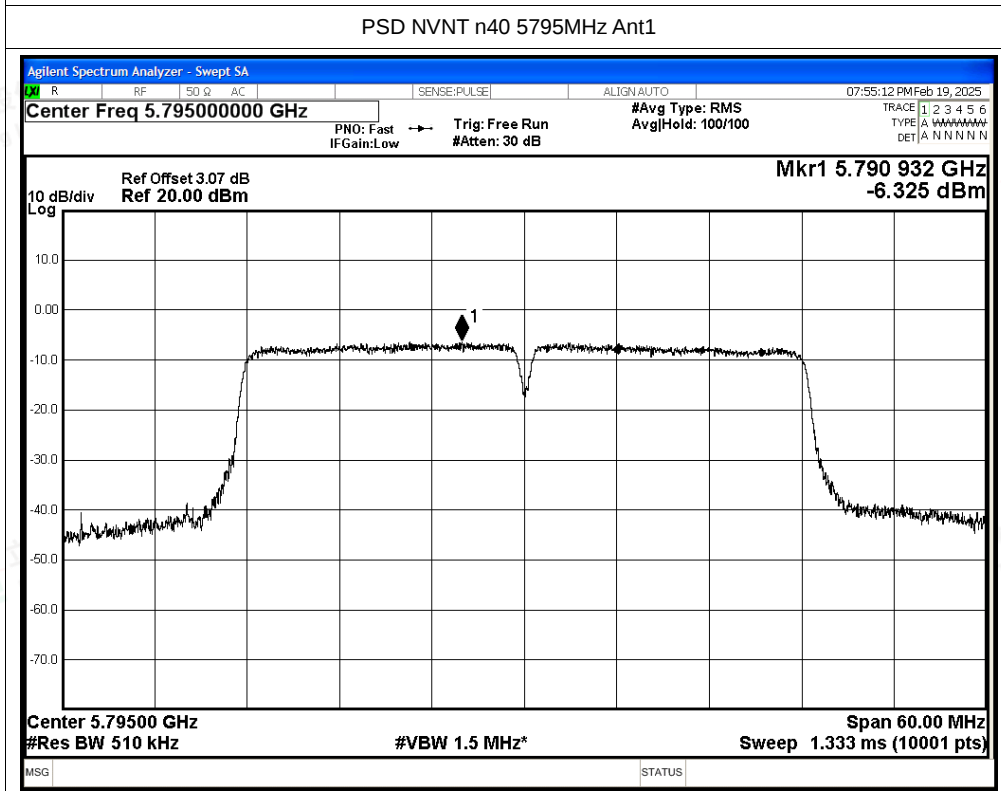
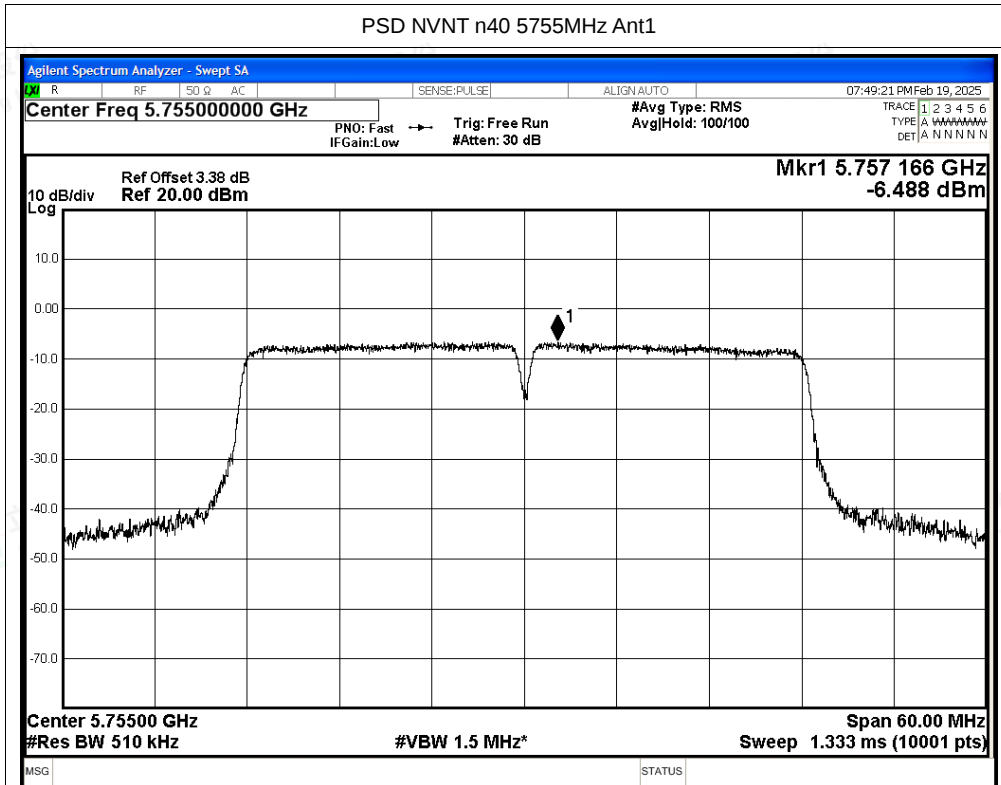
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1









## E.4 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | EIRP Power (dBm) | Detector | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------------|----------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 5650            | -49.27      | 5.22       | -                | -44.05           | Peak     | -27         | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5650            | -58.05      | 5.22       | 0.13             | -52.70           | Average  | -27         | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5700            | -49.54      | 5.22       | -                | -44.32           | Peak     | 10          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5700            | -57.02      | 5.22       | 0.13             | -51.67           | Average  | 10          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5720            | -44.9       | 5.22       | -                | -39.68           | Peak     | 15.6        | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5720            | -56.26      | 5.22       | 0.13             | -50.91           | Average  | 15.6        | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5725            | -37.86      | 5.22       | -                | -32.64           | Peak     | 27          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 5725            | -51.08      | 5.22       | 0.13             | -45.73           | Average  | 27          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5850            | -45.89      | 5.22       | -                | -40.67           | Peak     | 27          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5850            | -55.67      | 5.22       | 0.13             | -50.32           | Average  | 27          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5855            | -49.59      | 5.22       | -                | -44.37           | Peak     | 15.6        | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5855            | -58.3       | 5.22       | 0.13             | -52.95           | Average  | 15.6        | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5875            | -49.68      | 5.22       | -                | -44.46           | Peak     | 10          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5875            | -57.53      | 5.22       | 0.13             | -52.18           | Average  | 10          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5925            | -49.93      | 5.22       | -                | -44.71           | Peak     | -27         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5925            | -57.94      | 5.22       | 0.13             | -52.59           | Average  | -27         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5650            | -49.17      | 5.22       | -                | -43.95           | Peak     | -27         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5650            | -57.41      | 5.22       | 0.15             | -52.04           | Average  | -27         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5700            | -49.32      | 5.22       | -                | -44.10           | Peak     | 10          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5700            | -57.56      | 5.22       | 0.15             | -52.19           | Average  | 10          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5720            | -42.52      | 5.22       | -                | -37.30           | Peak     | 15.6        | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5720            | -54.32      | 5.22       | 0.15             | -48.95           | Average  | 15.6        | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5725            | -35.85      | 5.22       | -                | -30.63           | Peak     | 27          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5725            | -49.92      | 5.22       | 0.15             | -44.55           | Average  | 27          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5850            | -44.15      | 5.22       | -                | -38.93           | Peak     | 27          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5850            | -55.35      | 5.22       | 0.16             | -49.97           | Average  | 27          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5855            | -46.95      | 5.22       | -                | -41.73           | Peak     | 15.6        | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5855            | -57.55      | 5.22       | 0.16             | -52.17           | Average  | 15.6        | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5875            | -49.74      | 5.22       | -                | -44.52           | Peak     | 10          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5875            | -57.76      | 5.22       | 0.16             | -52.38           | Average  | 10          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5925            | -49.15      | 5.22       | -                | -43.93           | Peak     | -27         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5925            | -57.38      | 5.22       | 0.16             | -52.00           | Average  | -27         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5650            | -49.15      | 5.22       | -                | -43.93           | Peak     | -27         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5650            | -57.41      | 5.22       | 0.12             | -52.07           | Average  | -27         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5700            | -49.85      | 5.22       | -                | -44.63           | Peak     | 10          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5700            | -58.11      | 5.22       | 0.12             | -52.77           | Average  | 10          | Pass    |



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|      |     |      |      |      |        |      |      |        |         |      |      |
|------|-----|------|------|------|--------|------|------|--------|---------|------|------|
| NVNT | n40 | 5755 | Ant1 | 5720 | -41.12 | 5.22 | -    | -35.90 | Peak    | 15.6 | Pass |
| NVNT | n40 | 5755 | Ant1 | 5720 | -55.38 | 5.22 | 0.12 | -50.04 | Average | 15.6 | Pass |
| NVNT | n40 | 5755 | Ant1 | 5725 | -31.74 | 5.22 | -    | -26.52 | Peak    | 27   | Pass |
| NVNT | n40 | 5755 | Ant1 | 5725 | -52.19 | 5.22 | 0.12 | -46.85 | Average | 27   | Pass |
| NVNT | n40 | 5795 | Ant1 | 5850 | -49.46 | 5.22 | -    | -44.24 | Peak    | 27   | Pass |
| NVNT | n40 | 5795 | Ant1 | 5850 | -58.67 | 5.22 | 0.12 | -53.33 | Average | 27   | Pass |
| NVNT | n40 | 5795 | Ant1 | 5855 | -50.34 | 5.22 | -    | -45.12 | Peak    | 15.6 | Pass |
| NVNT | n40 | 5795 | Ant1 | 5855 | -58.09 | 5.22 | 0.12 | -52.75 | Average | 15.6 | Pass |
| NVNT | n40 | 5795 | Ant1 | 5875 | -48.71 | 5.22 | -    | -43.49 | Peak    | 10   | Pass |
| NVNT | n40 | 5795 | Ant1 | 5875 | -58.14 | 5.22 | 0.12 | -52.80 | Average | 10   | Pass |
| NVNT | n40 | 5795 | Ant1 | 5925 | -49.88 | 5.22 | -    | -44.66 | Peak    | -27  | Pass |
| NVNT | n40 | 5795 | Ant1 | 5925 | -58.05 | 5.22 | 0.12 | -52.71 | Average | -27  | Pass |

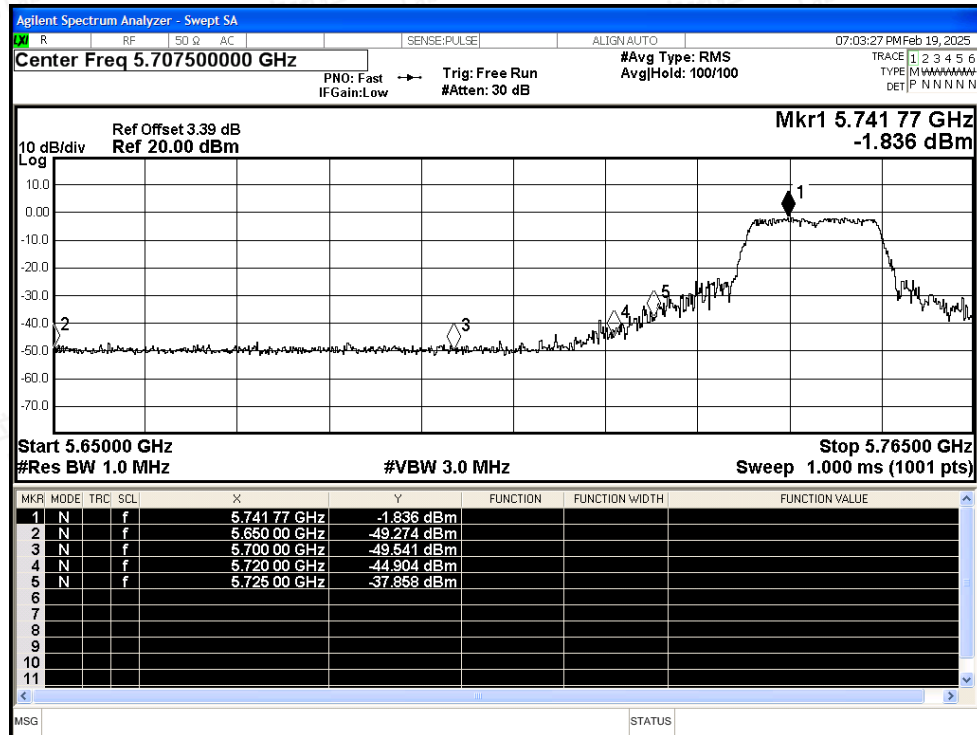


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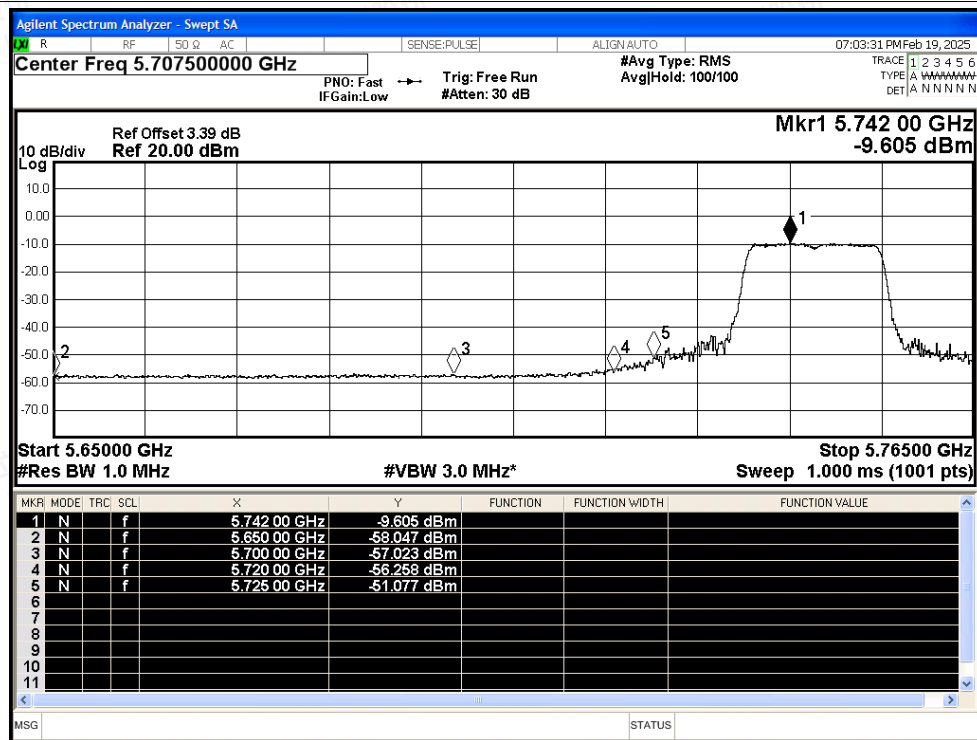


## Test Graphs

## Restrict Band NVNT a 5745MHz Ant1 Peak

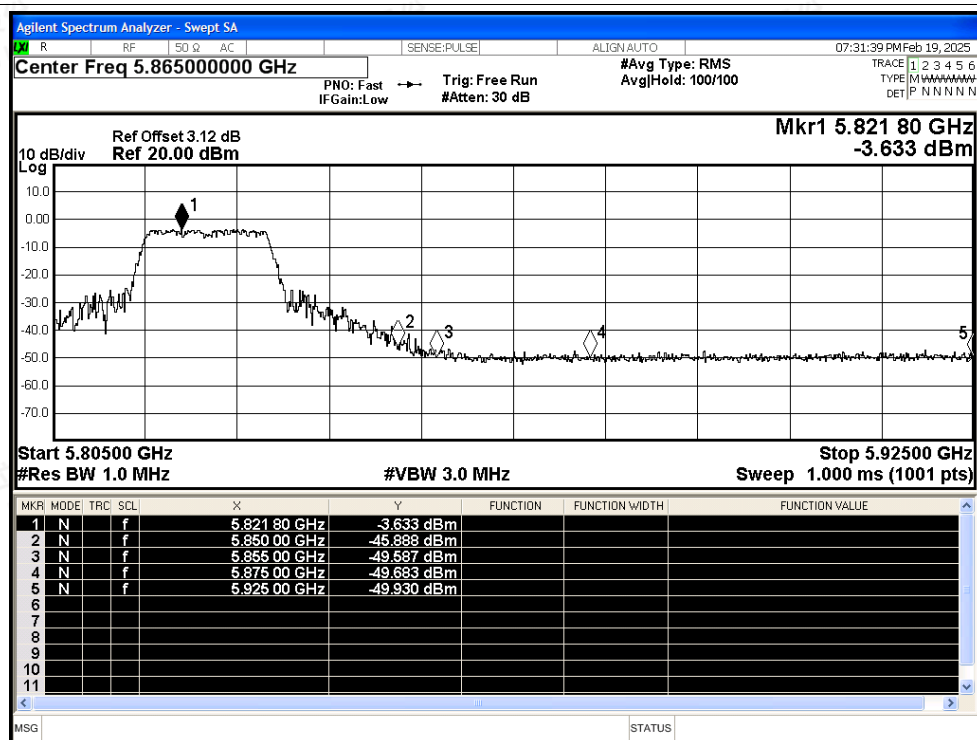


## Restrict Band NVNT a 5745MHz Ant1 Average

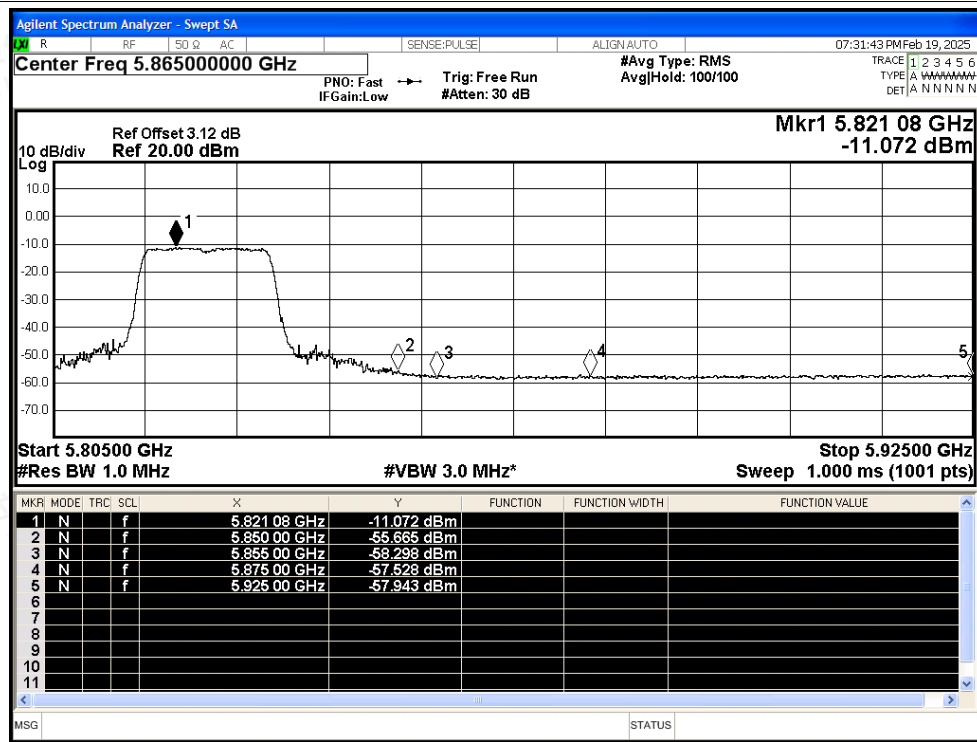




## Restrict Band NVNT a 5825MHz Ant1 Peak

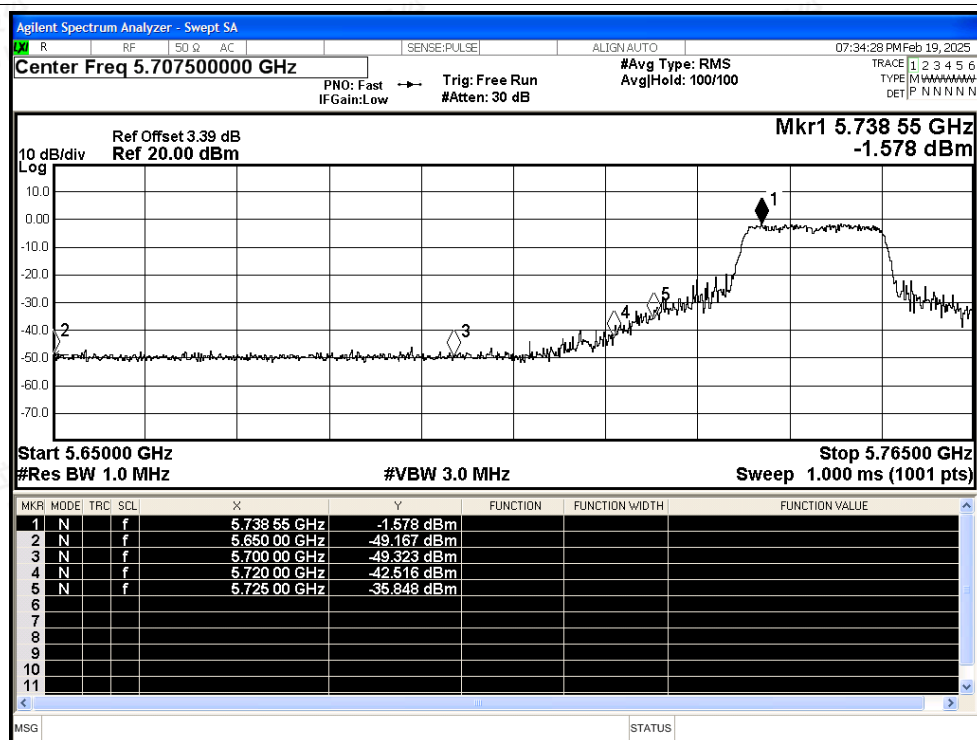


## Restrict Band NVNT a 5825MHz Ant1 Average

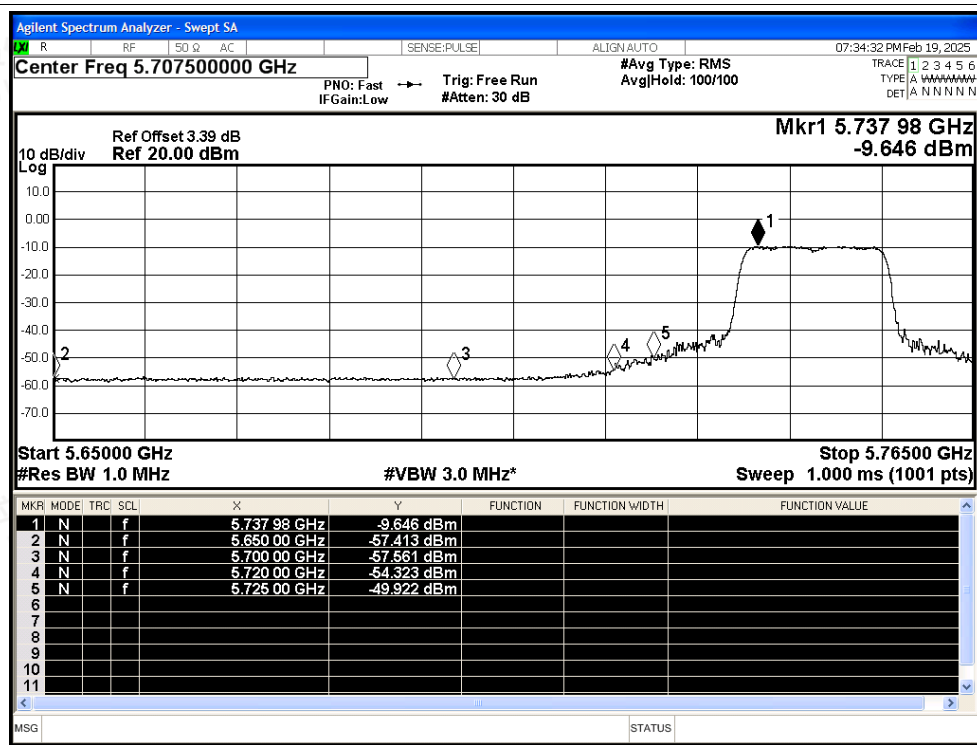




## Restrict Band NVNT n20 5745MHz Ant1 Peak

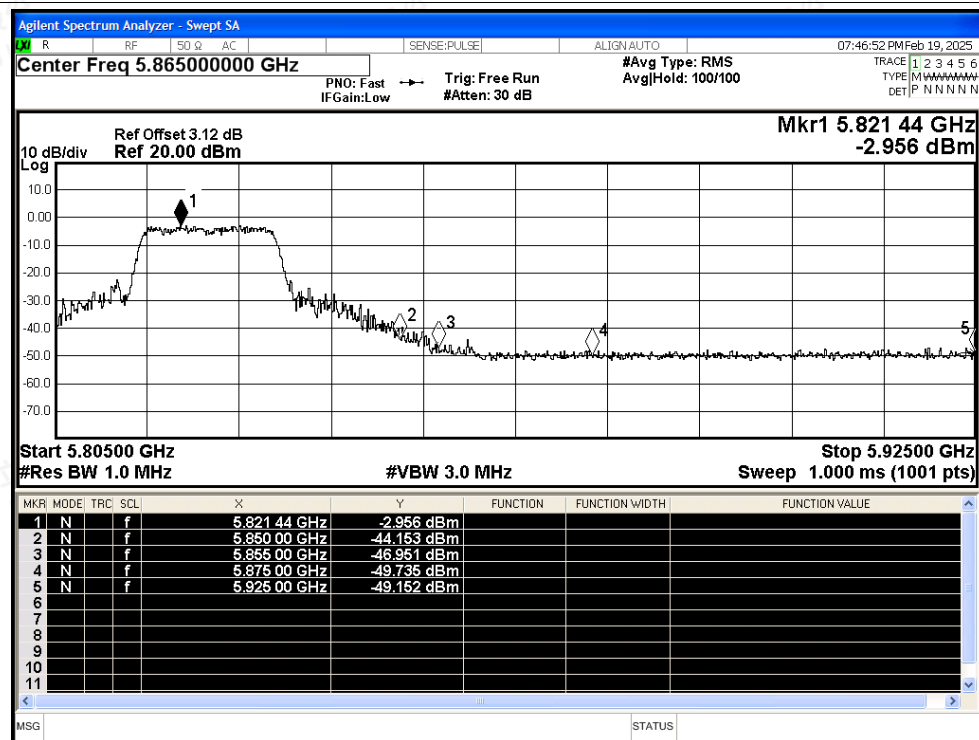


## Restrict Band NVNT n20 5745MHz Ant1 Average

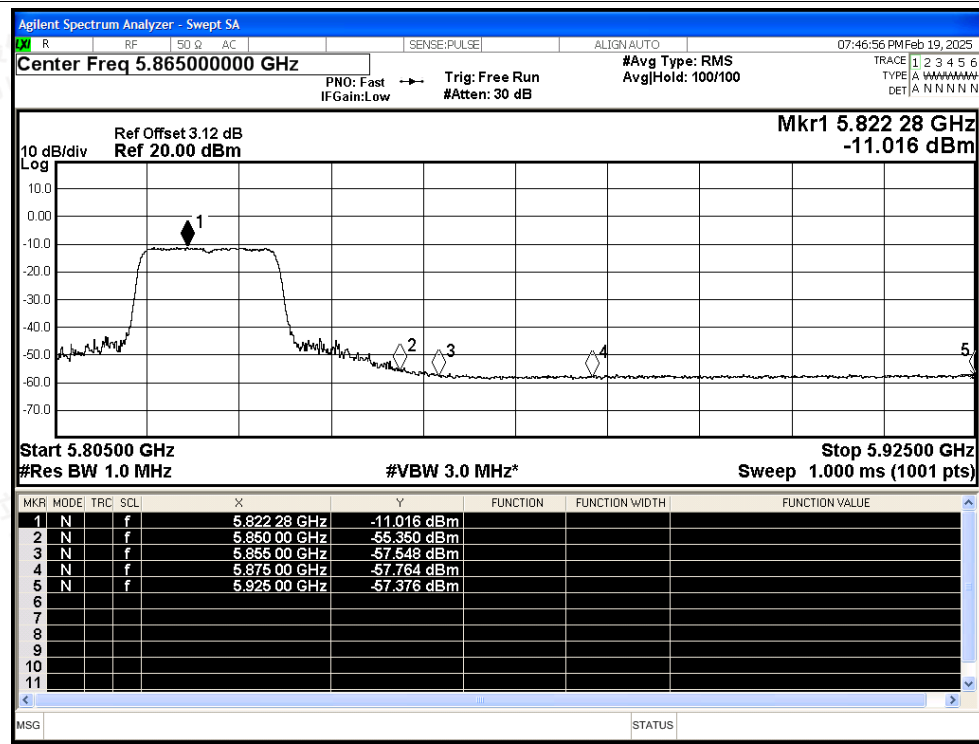




## Restrict Band NVNT n20 5825MHz Ant1 Peak

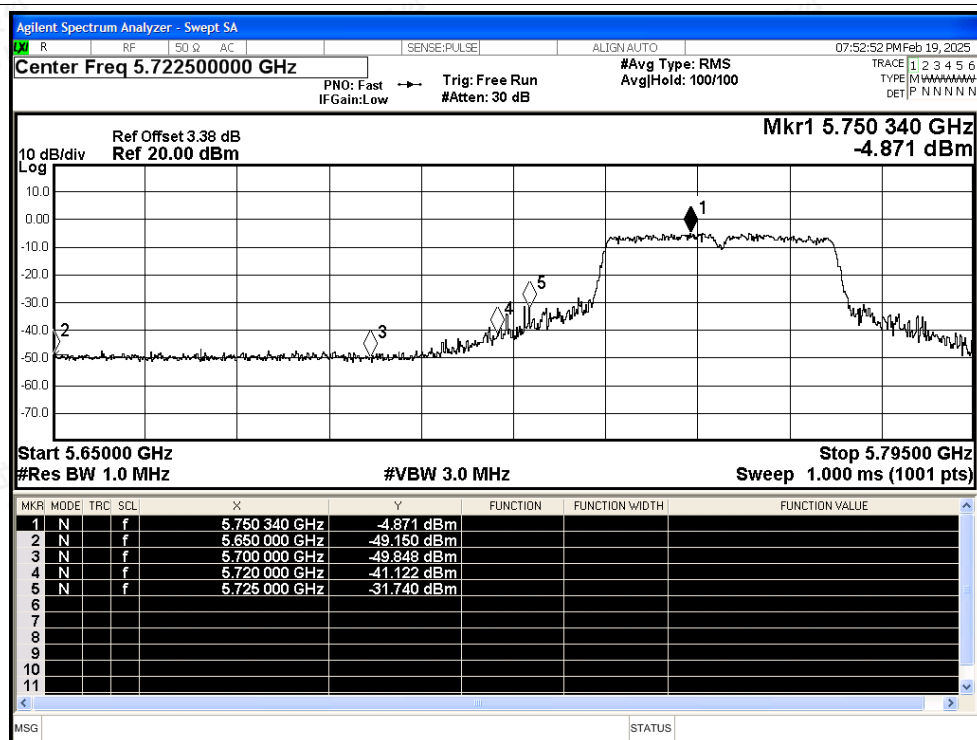


## Restrict Band NVNT n20 5825MHz Ant1 Average

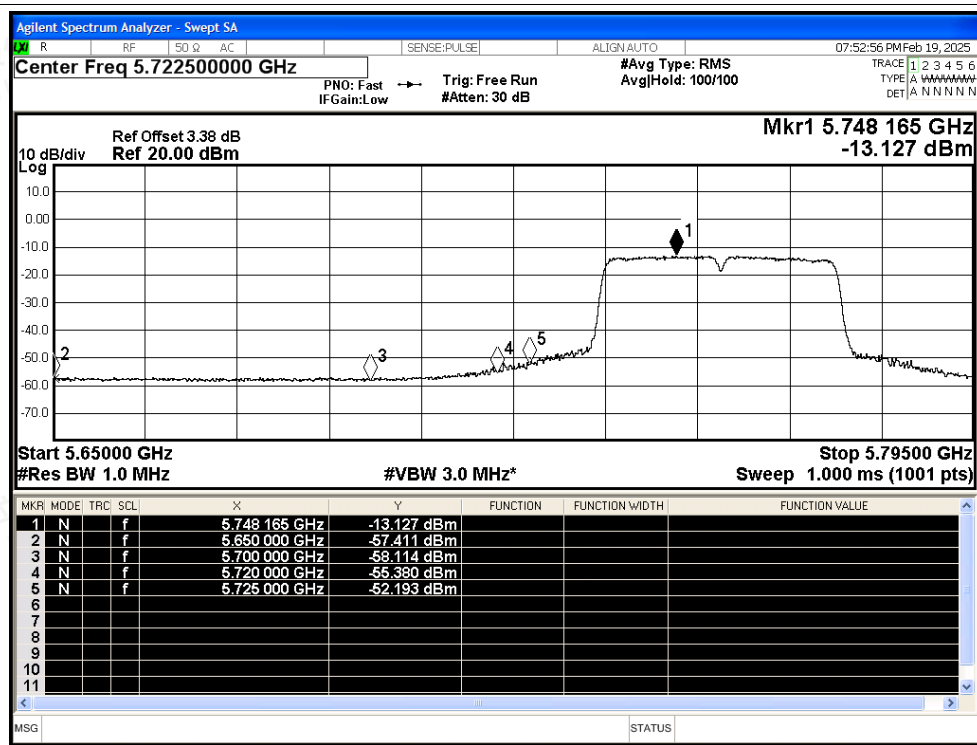




## Restrict Band NVNT n40 5755MHz Ant1 Peak

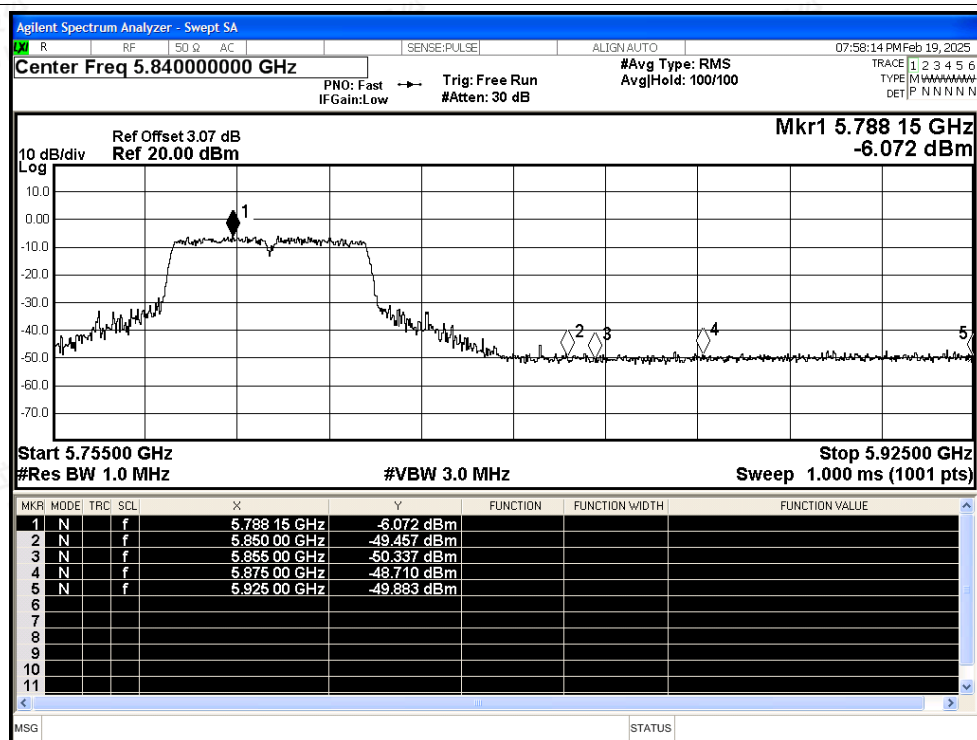


## Restrict Band NVNT n40 5755MHz Ant1 Average

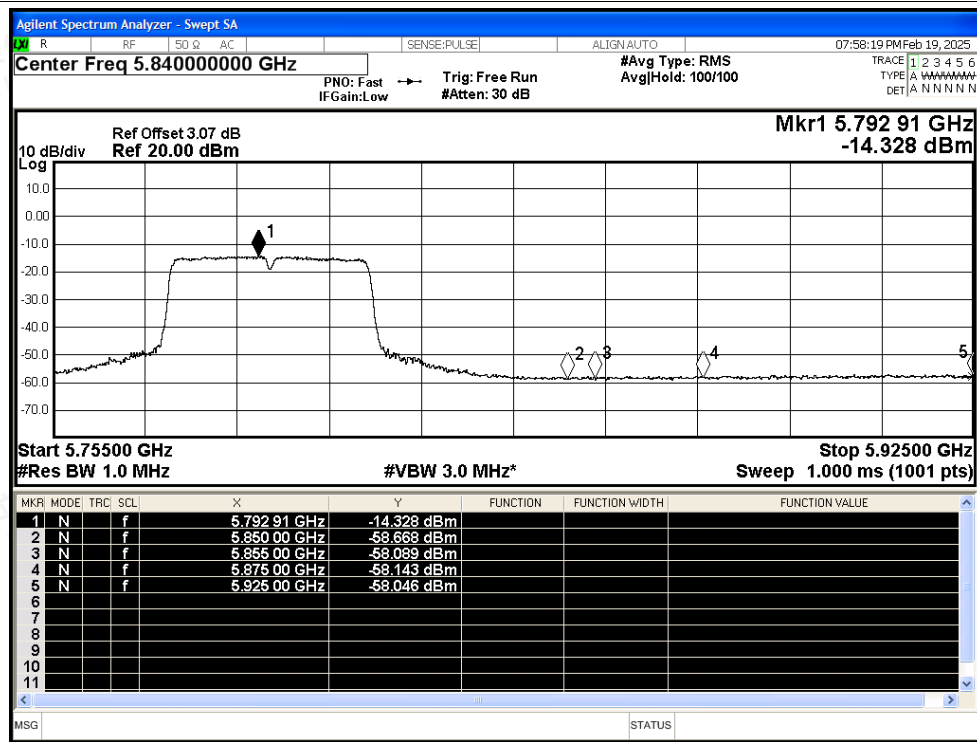




## Restrict Band NVNT n40 5795MHz Ant1 Peak



## Restrict Band NVNT n40 5795MHz Ant1 Average





## E.5 Frequency Stability

| Condition | Mode | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | a    | 5745               | Ant1    | 5744.98                     | -20000                  | -3.48              | 25             | Pass    |
| NVNT      | a    | 5785               | Ant1    | 5784.98                     | -20000                  | -3.46              | 25             | Pass    |
| NVNT      | a    | 5825               | Ant1    | 5824.98                     | -20000                  | -3.43              | 25             | Pass    |
| NVNT      | n20  | 5745               | Ant1    | 5744.98                     | -20000                  | -3.48              | 25             | Pass    |
| NVNT      | n20  | 5785               | Ant1    | 5784.96                     | -40000                  | -6.91              | 25             | Pass    |
| NVNT      | n20  | 5825               | Ant1    | 5824.96                     | -40000                  | -6.87              | 25             | Pass    |
| NVNT      | n40  | 5755               | Ant1    | 5755                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | n40  | 5795               | Ant1    | 5795                        | 0                       | 0                  | 25             | Pass    |

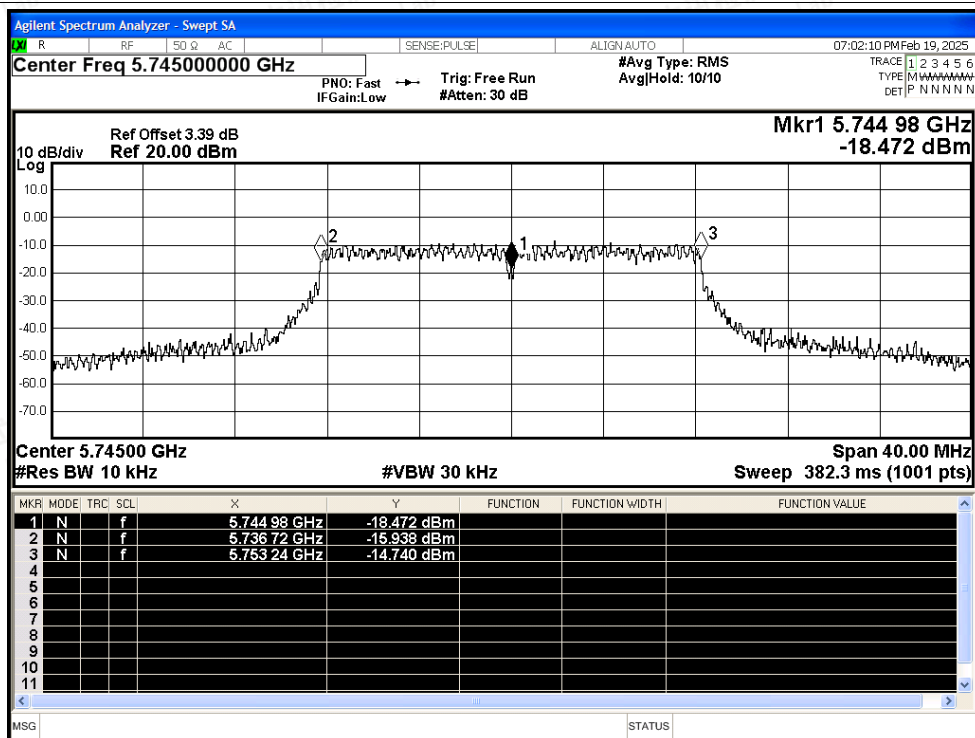


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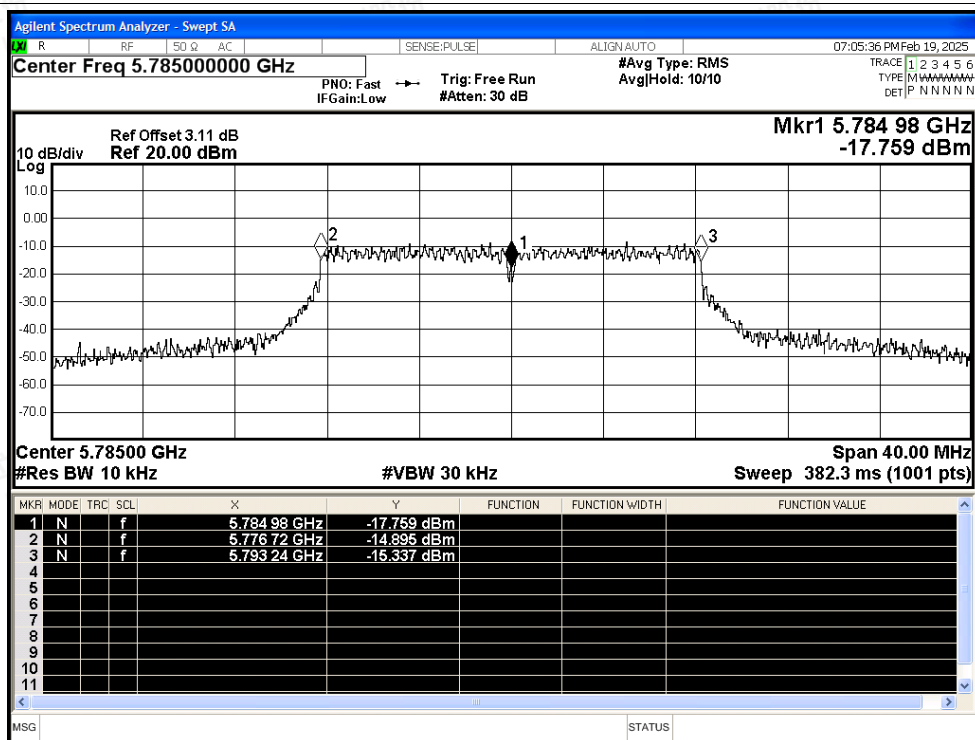


## Test Graphs

## Freq. Stability NVNT a 5745MHz Ant1

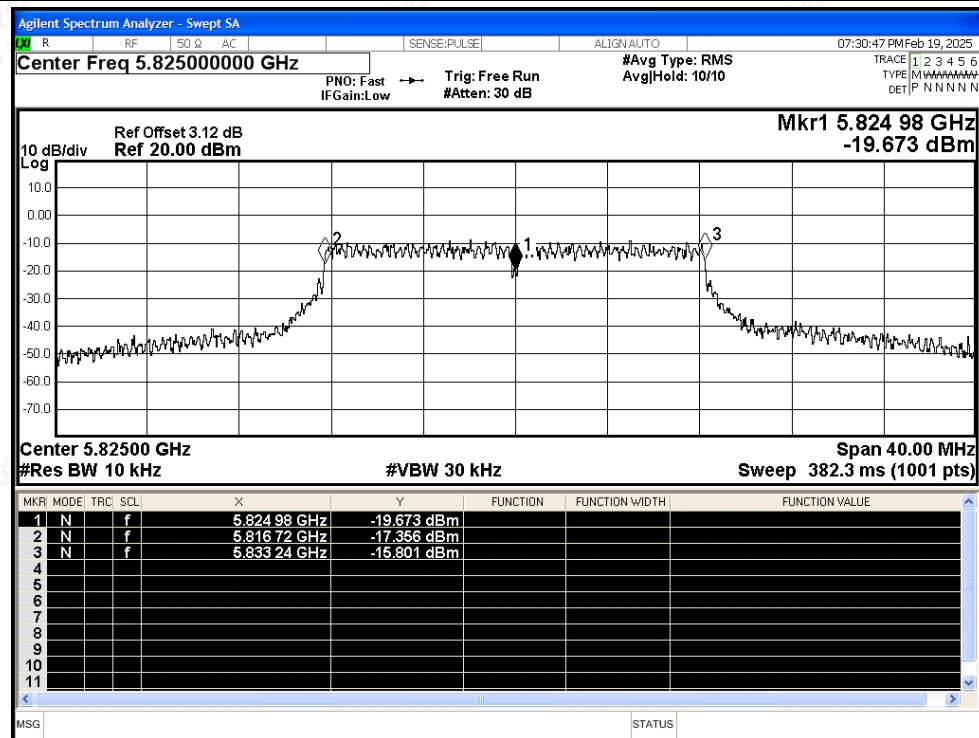


## Freq. Stability NVNT a 5785MHz Ant1

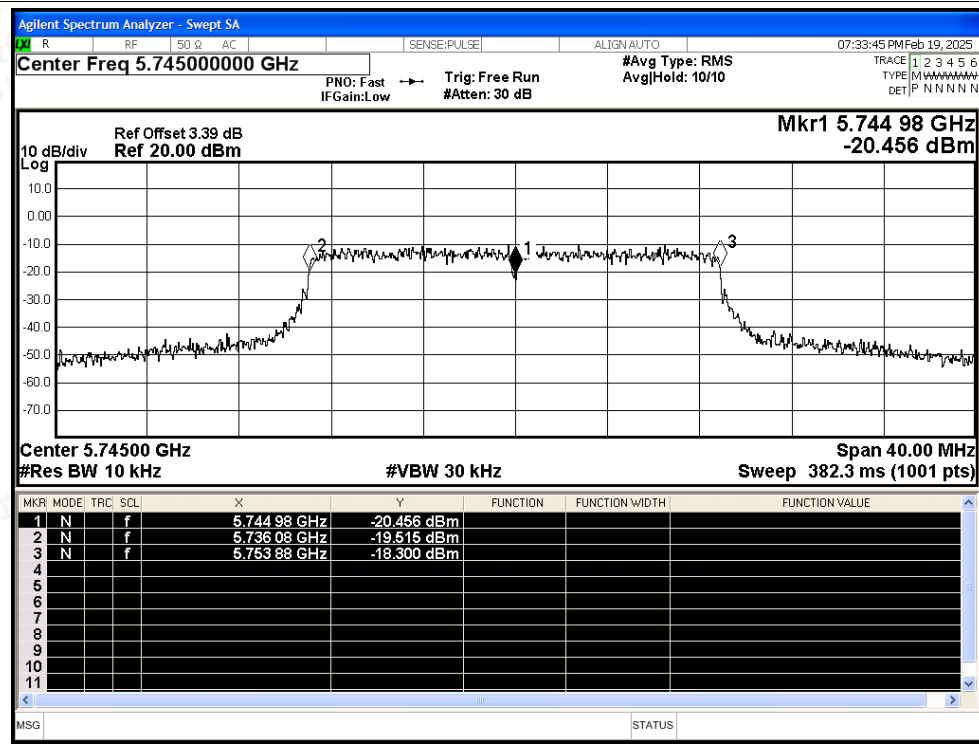




## Freq. Stability NVNT a 5825MHz Ant1

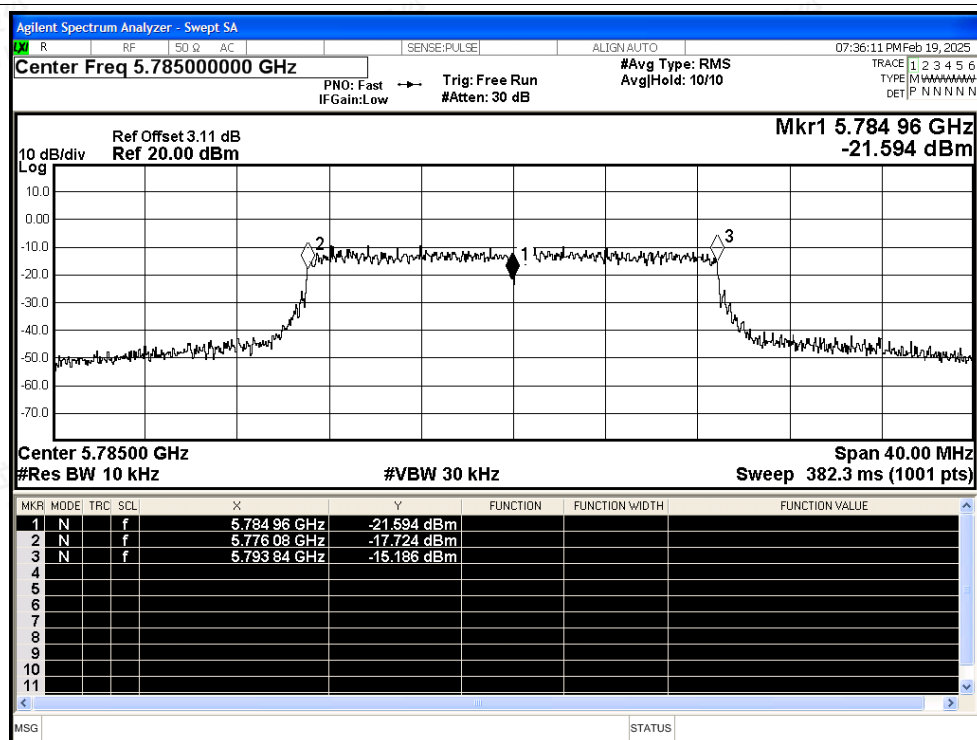


## Freq. Stability NVNT n20 5745MHz Ant1

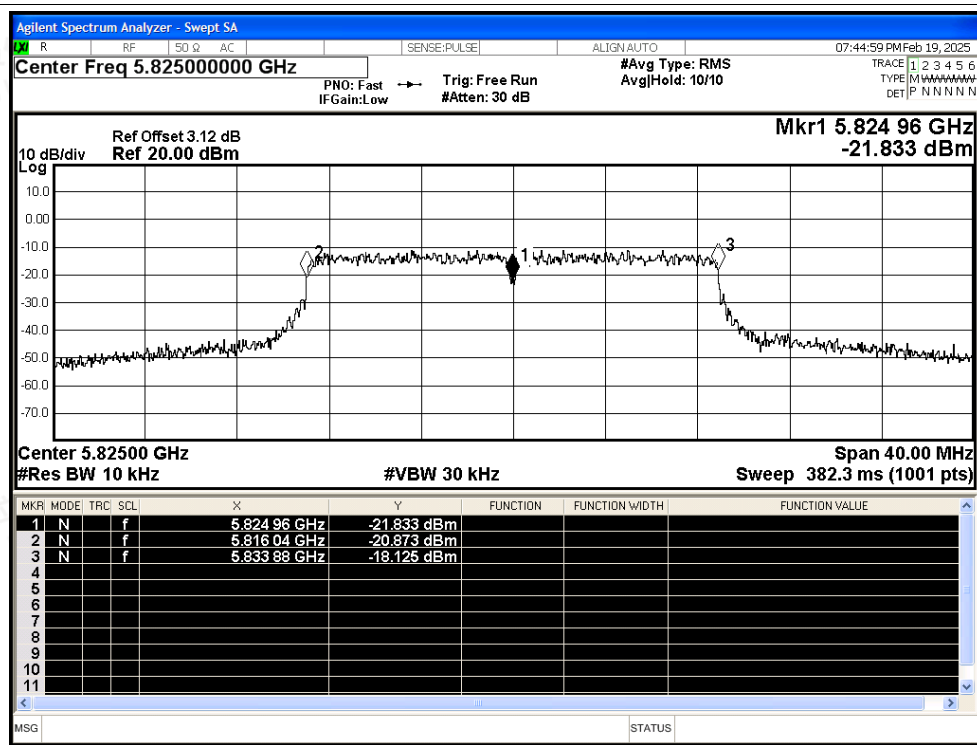




## Freq. Stability NVNT n20 5785MHz Ant1

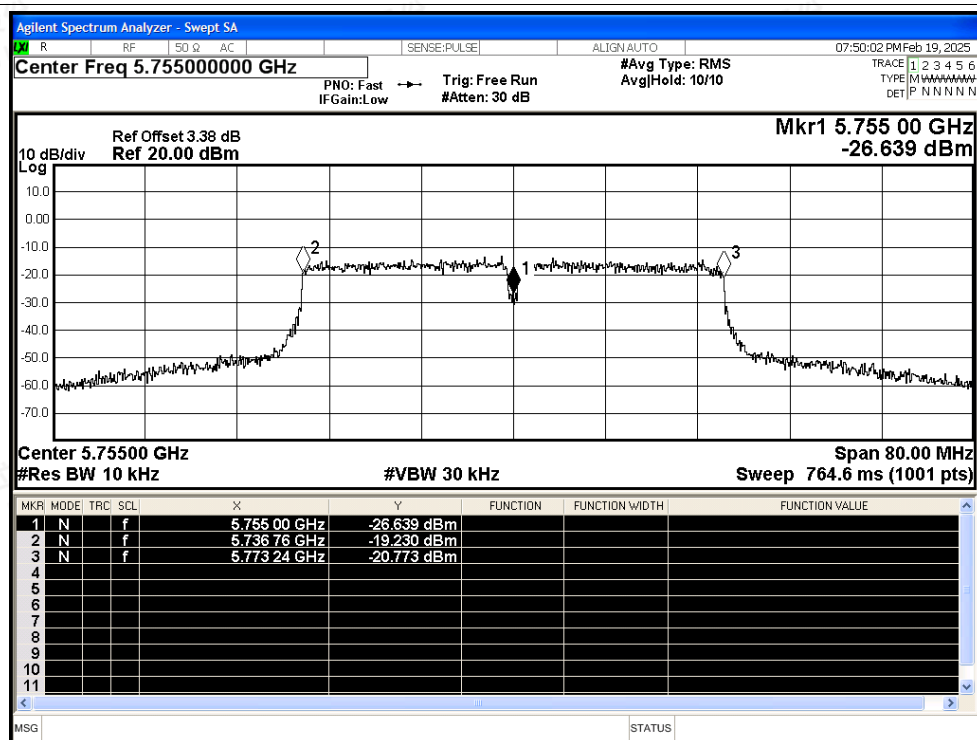


## Freq. Stability NVNT n20 5825MHz Ant1

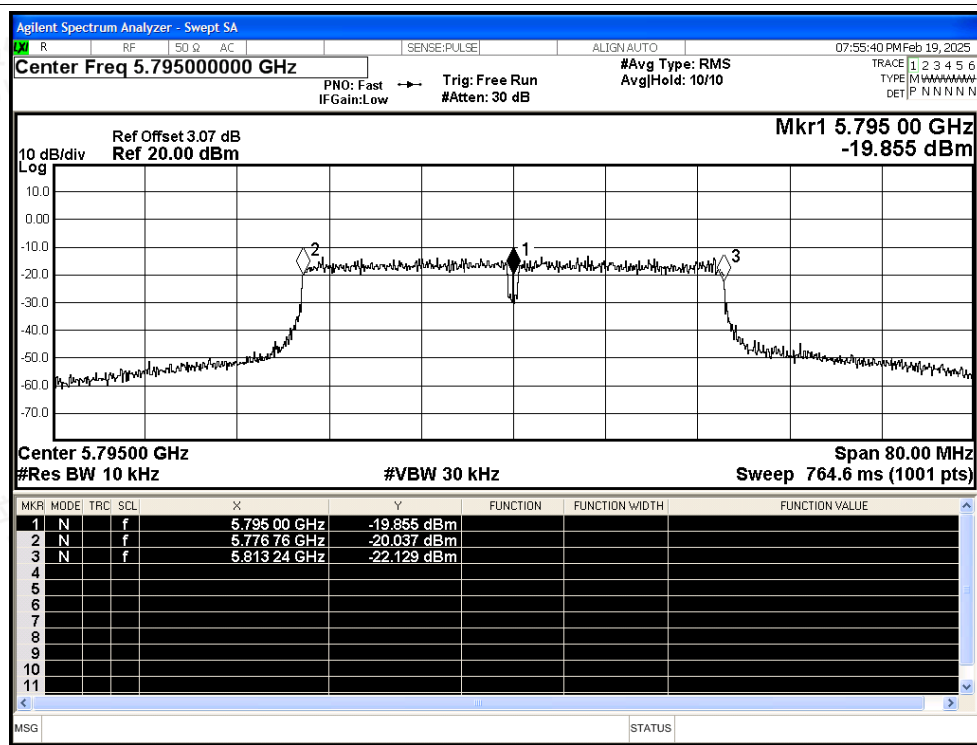




## Freq. Stability NVNT n40 5755MHz Ant1



## Freq. Stability NVNT n40 5795MHz Ant1





## E.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5745            | Ant1    | 96.99          | 0.13                   | 0.49      |
| NVNT      | a    | 5785            | Ant1    | 97.04          | 0.13                   | 0.49      |
| NVNT      | a    | 5825            | Ant1    | 97.04          | 0.13                   | 0.49      |
| NVNT      | n20  | 5745            | Ant1    | 96.5           | 0.15                   | 0.59      |
| NVNT      | n20  | 5785            | Ant1    | 96.5           | 0.15                   | 0.59      |
| NVNT      | n20  | 5825            | Ant1    | 96.44          | 0.16                   | 0.59      |
| NVNT      | n40  | 5755            | Ant1    | 97.23          | 0.12                   | 0.46      |
| NVNT      | n40  | 5795            | Ant1    | 97.23          | 0.12                   | 0.46      |

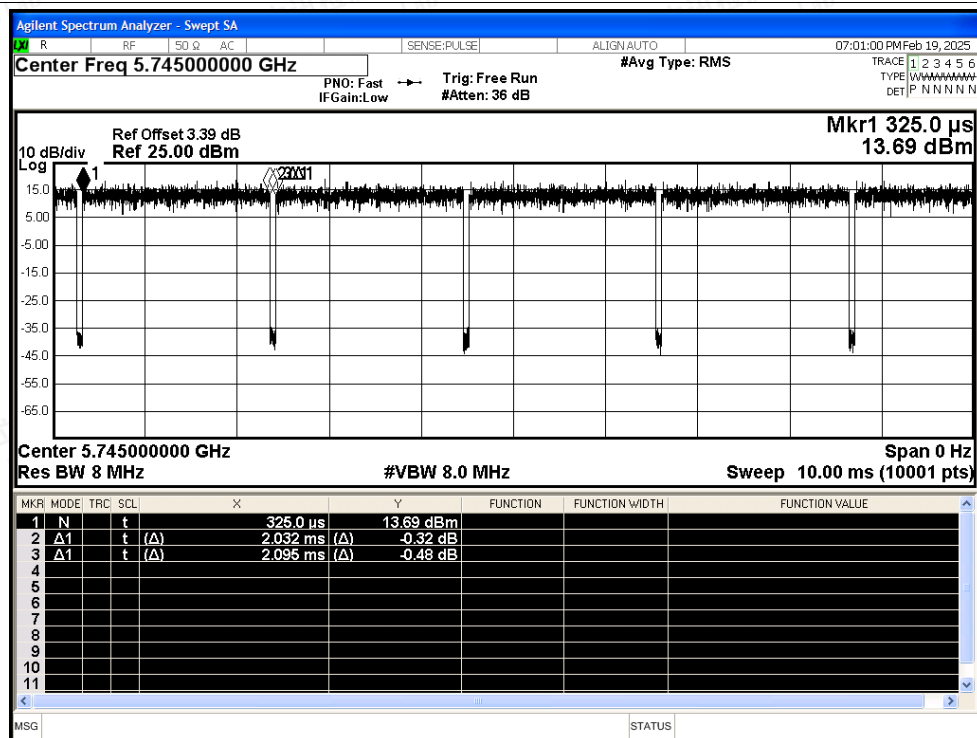


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Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

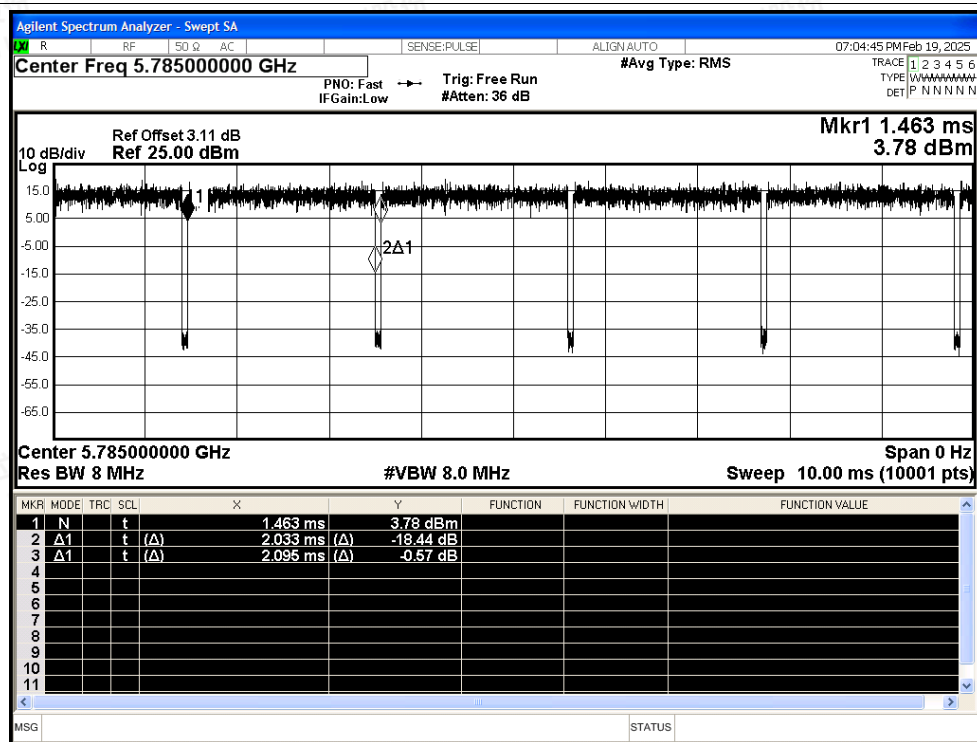


## Test Graphs

## Duty Cycle NVNT a 5745MHz Ant1

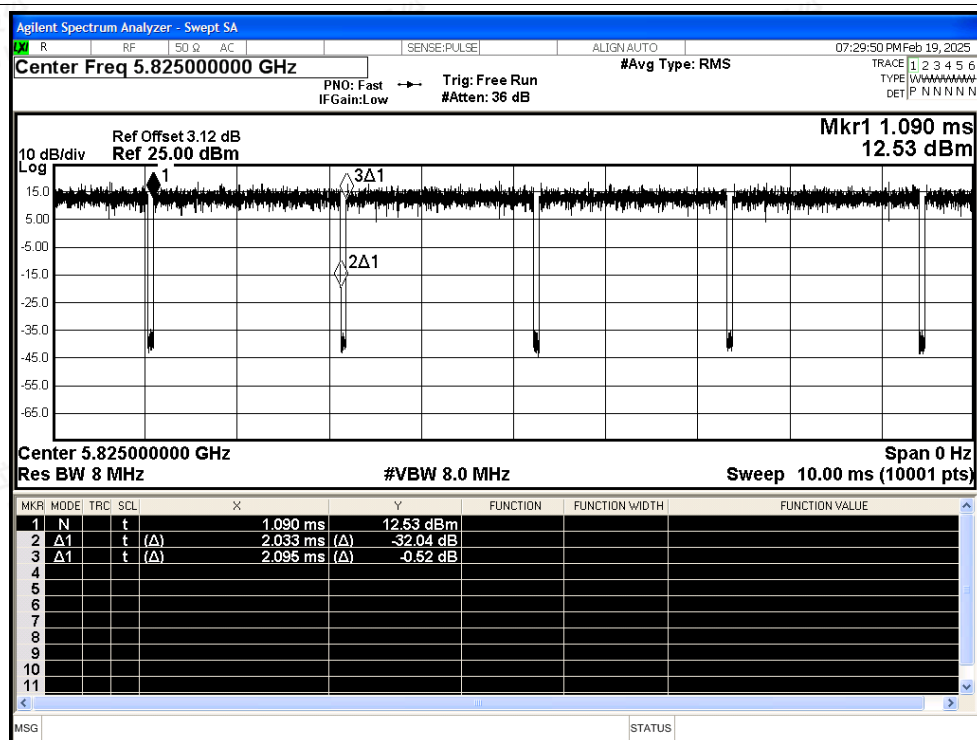


## Duty Cycle NVNT a 5785MHz Ant1

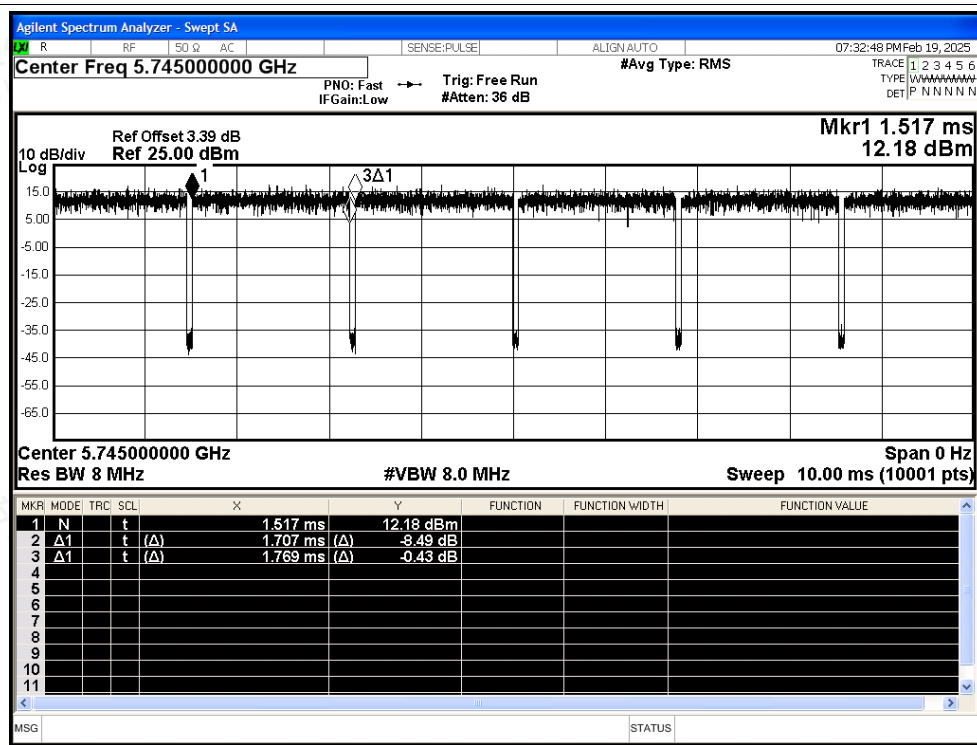




## Duty Cycle NVNT a 5825MHz Ant1

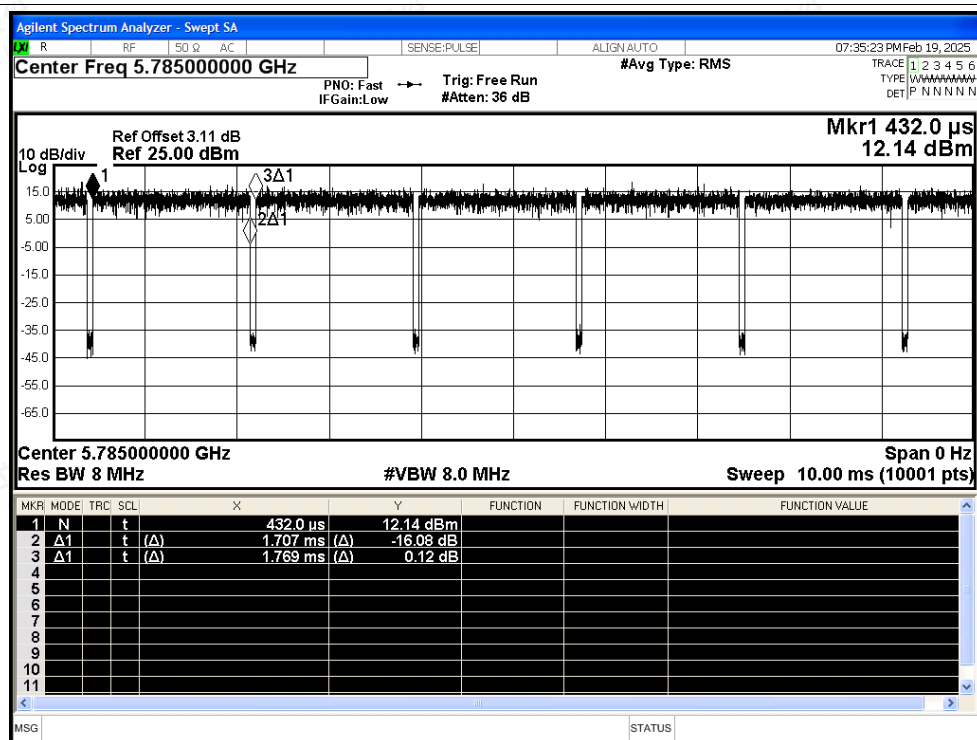


## Duty Cycle NVNT n20 5745MHz Ant1

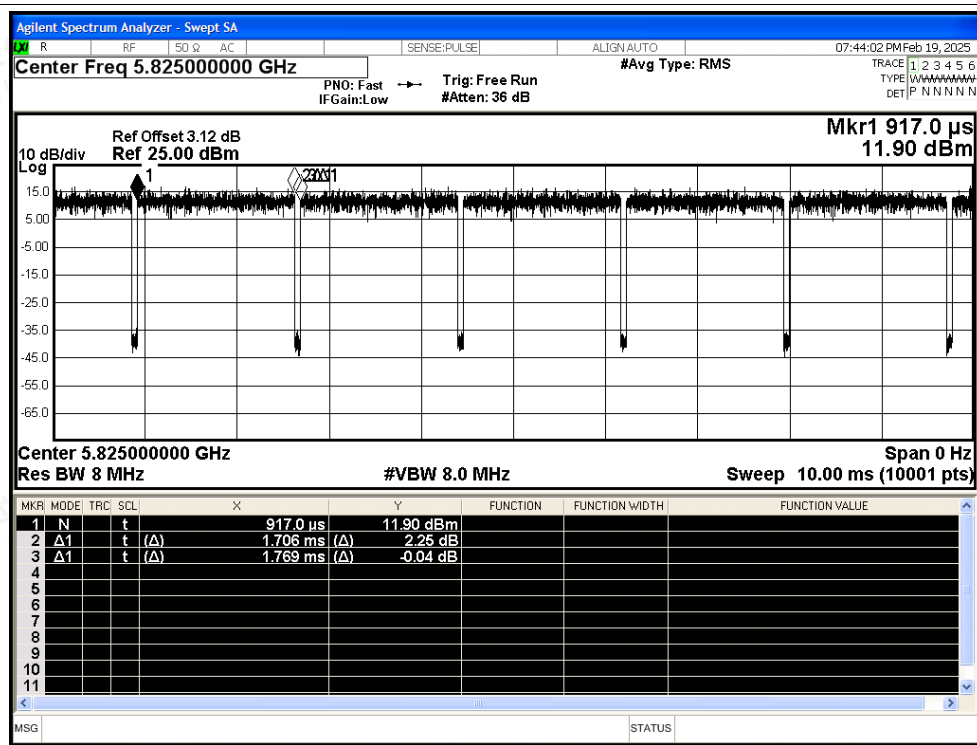




## Duty Cycle NVNT n20 5785MHz Ant1

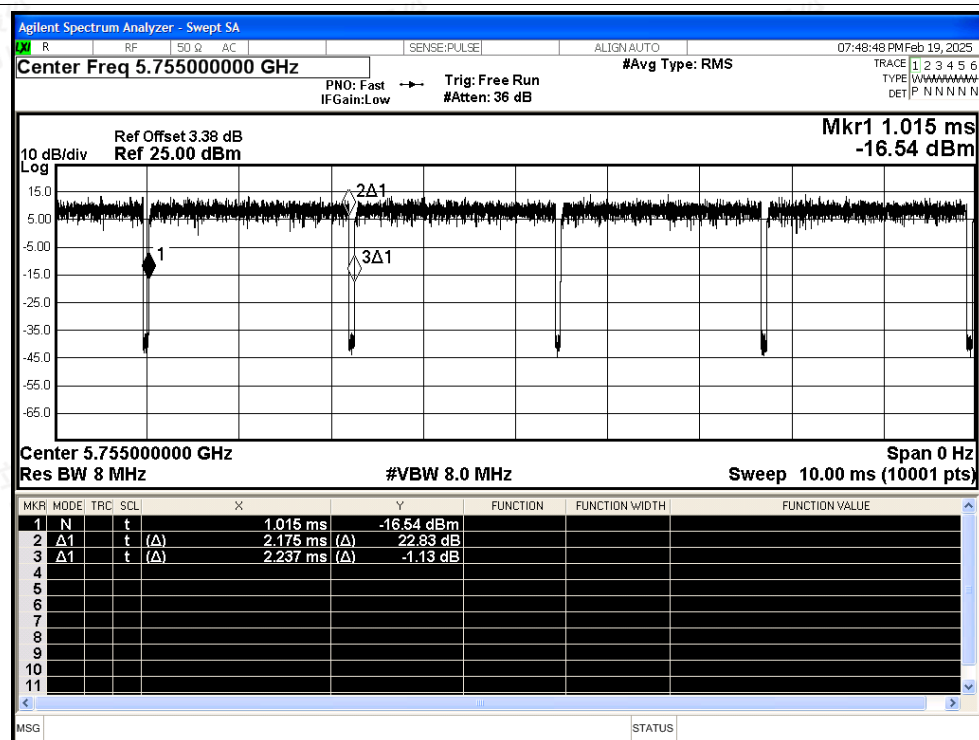


## Duty Cycle NVNT n20 5825MHz Ant1





## Duty Cycle NVNT n40 5755MHz Ant1



## Duty Cycle NVNT n40 5795MHz Ant1

