



## Appendix B for 5GWIFI Test Data

Product Name: MINI PC

Test Model: FN100

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 21.6° C   |
| Relative Humidity: | 54%       |
| ATM Pressure:      | 101.2 kPa |
| Test Engineer:     | Jim Liu   |
| Supervised by:     | Lake Xie  |



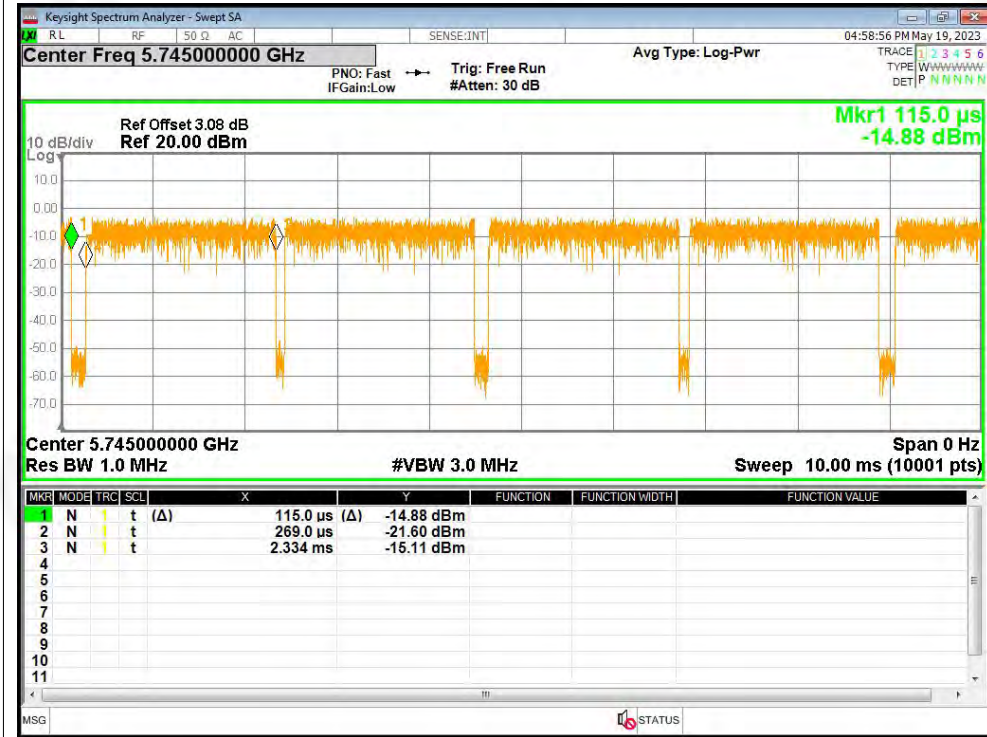
## B.1 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5745            | Ant1    | 93.06          | 0.31                   | 0.48      |
| NVNT      | a    | 5785            | Ant1    | 94.59          | 0.24                   | 0.48      |
| NVNT      | a    | 5825            | Ant1    | 96.95          | 0.13                   | 0.48      |
| NVNT      | n20  | 5745            | Ant1    | 93.39          | 0.3                    | 0.52      |
| NVNT      | n20  | 5785            | Ant1    | 93.78          | 0.28                   | 0.48      |
| NVNT      | n20  | 5825            | Ant1    | 97.36          | 0.12                   | 0.48      |
| NVNT      | n40  | 5755            | Ant1    | 92.64          | 0.33                   | 0.48      |
| NVNT      | n40  | 5795            | Ant1    | 94.59          | 0.24                   | 0.48      |
| NVNT      | ac20 | 5745            | Ant1    | 92.62          | 0.33                   | 0.52      |
| NVNT      | ac20 | 5785            | Ant1    | 98.19          | 0                      | 0.48      |
| NVNT      | ac20 | 5825            | Ant1    | 93.78          | 0.28                   | 0.48      |
| NVNT      | ac40 | 5755            | Ant1    | 94.59          | 0.24                   | 0.48      |
| NVNT      | ac40 | 5795            | Ant1    | 97.41          | 0.11                   | 0.48      |
| NVNT      | ac80 | 5775            | Ant1    | 97.77          | 0.1                    | 0.48      |
| NVNT      | ax20 | 5745            | Ant1    | 92.27          | 0.35                   | 0.48      |
| NVNT      | ax20 | 5785            | Ant1    | 92.64          | 0.33                   | 0.48      |
| NVNT      | ax20 | 5825            | Ant1    | 93.01          | 0.31                   | 0.48      |
| NVNT      | ax40 | 5755            | Ant1    | 98.19          | 0                      | 0.48      |
| NVNT      | ax40 | 5795            | Ant1    | 96.54          | 0.15                   | 0.48      |
| NVNT      | ax80 | 5775            | Ant1    | 96.95          | 0.13                   | 0.48      |



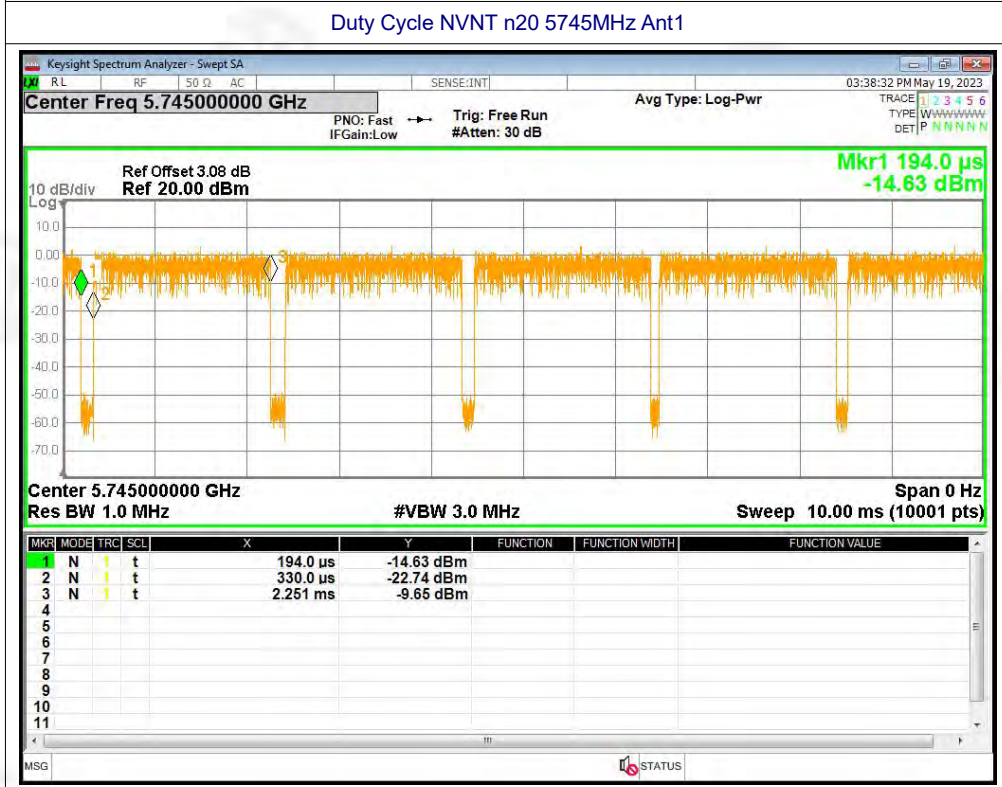
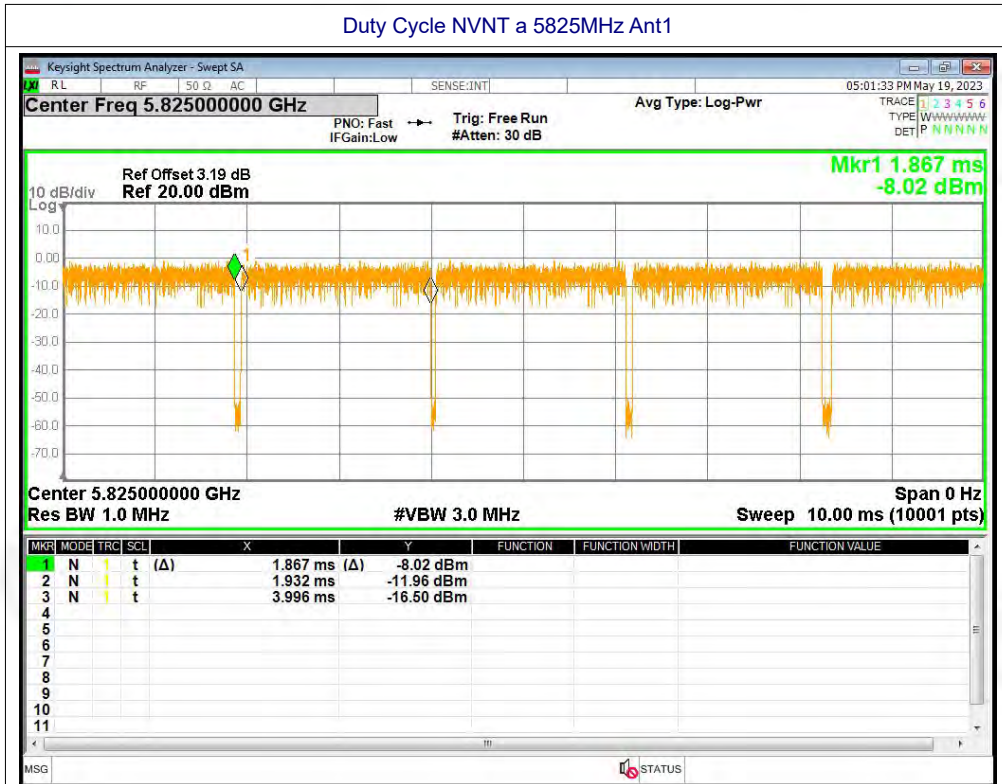
Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1





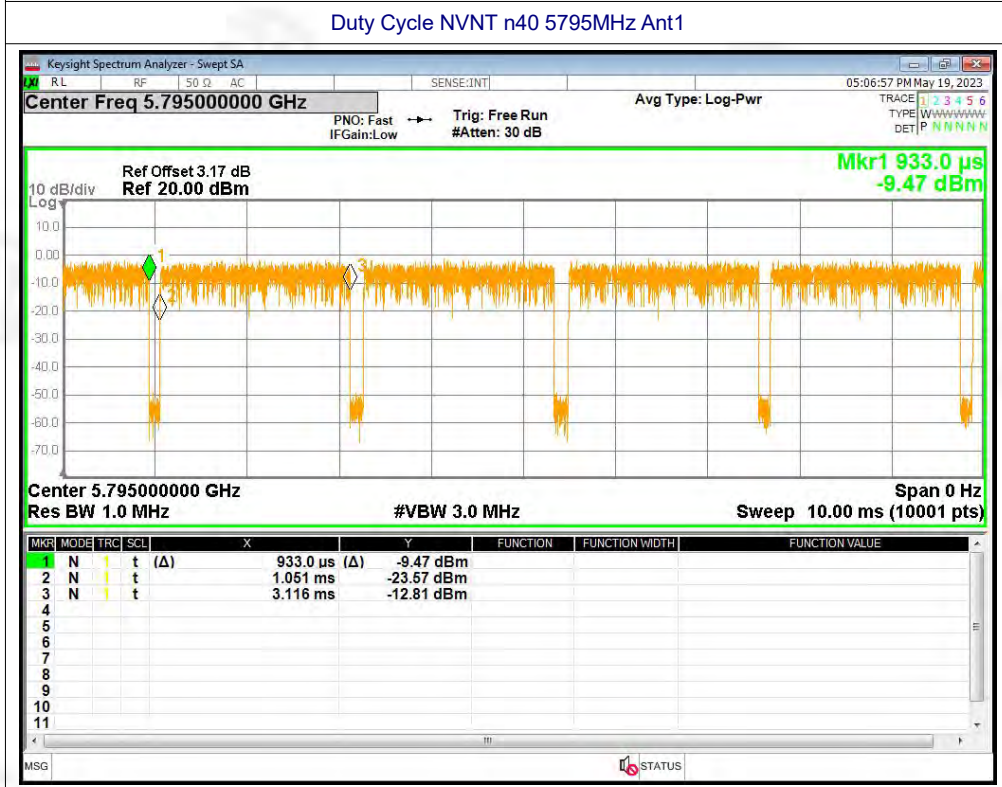
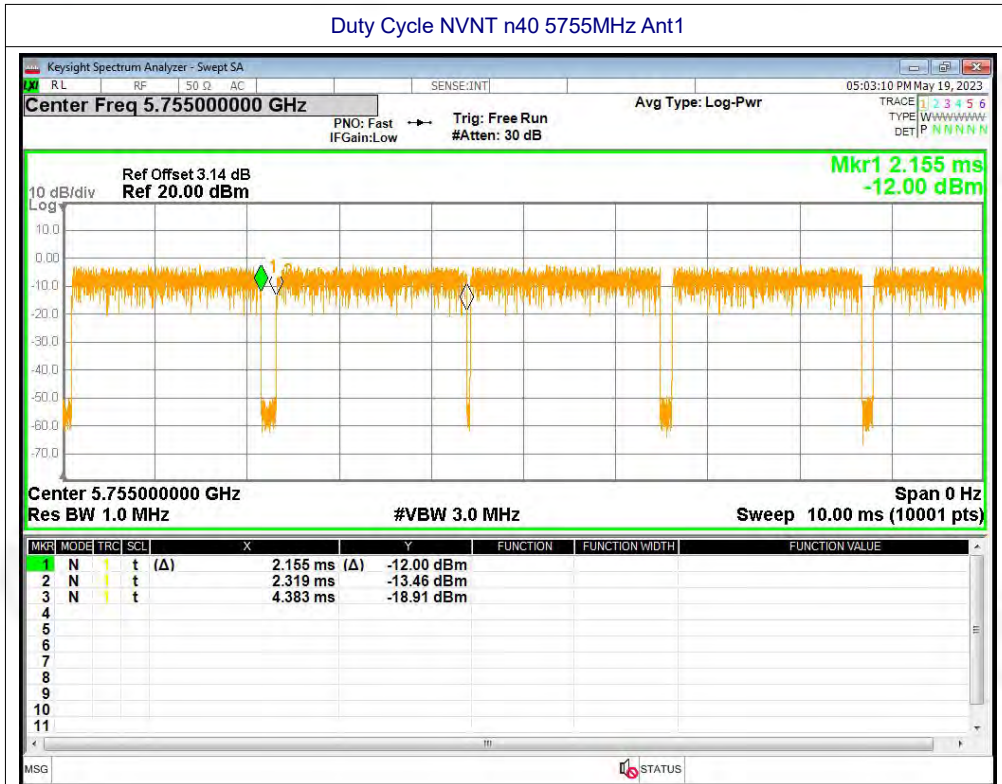


Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1







Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1





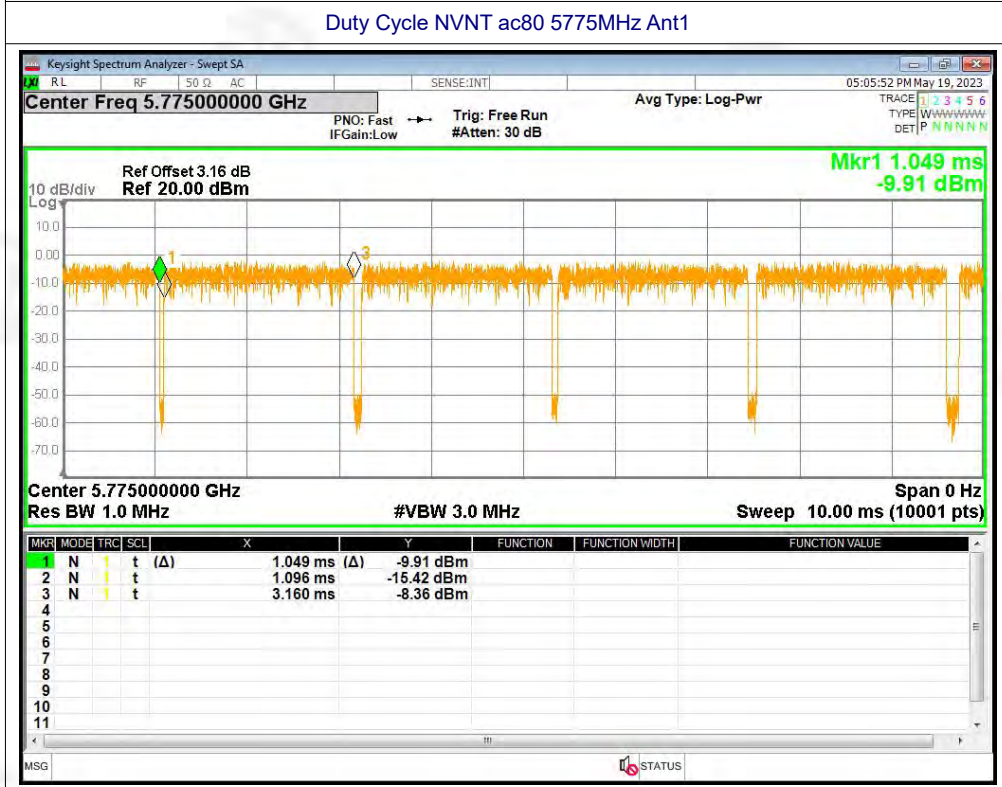
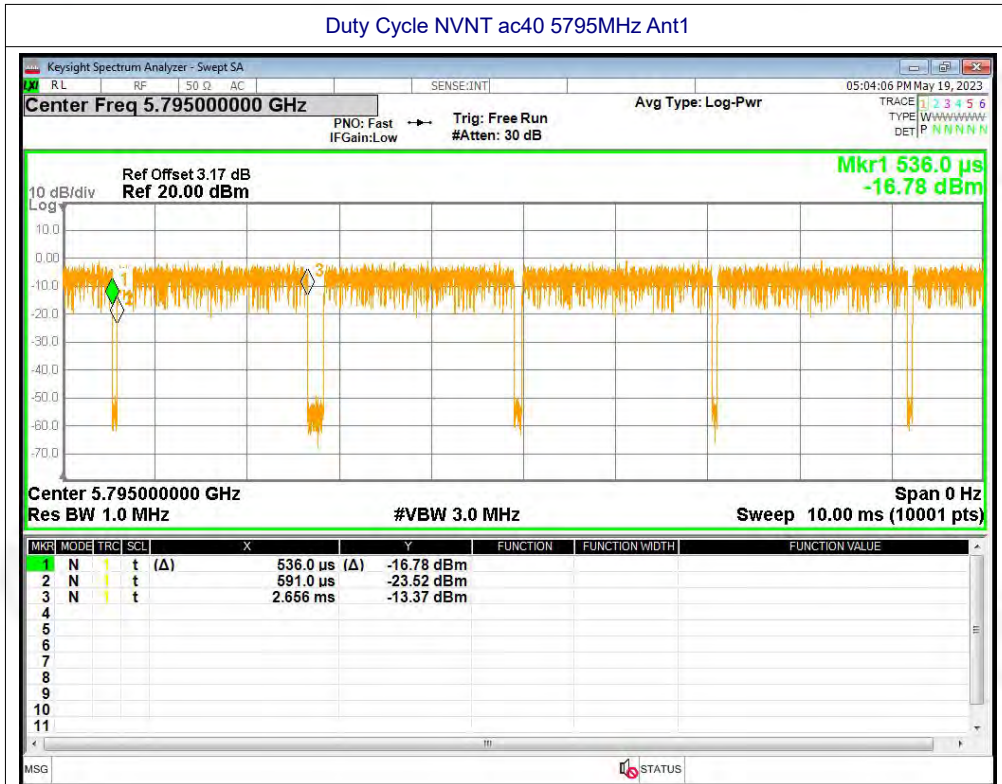
Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1









Duty Cycle NVNT ax20 5745MHz Ant1

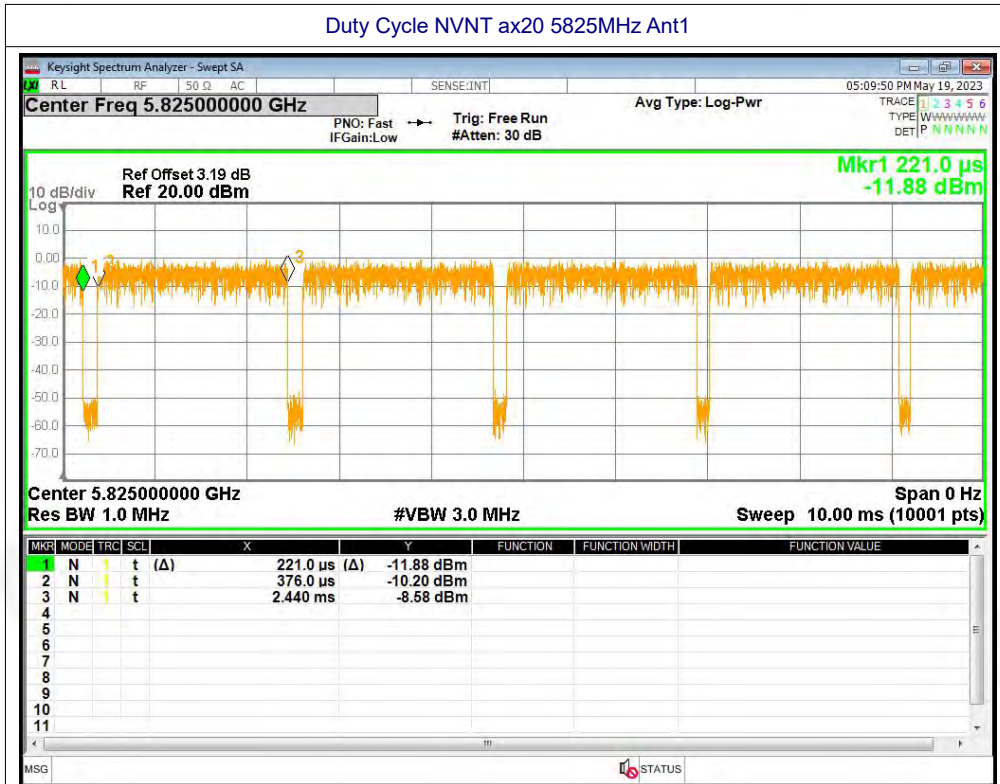


Duty Cycle NVNT ax20 5785MHz Ant1

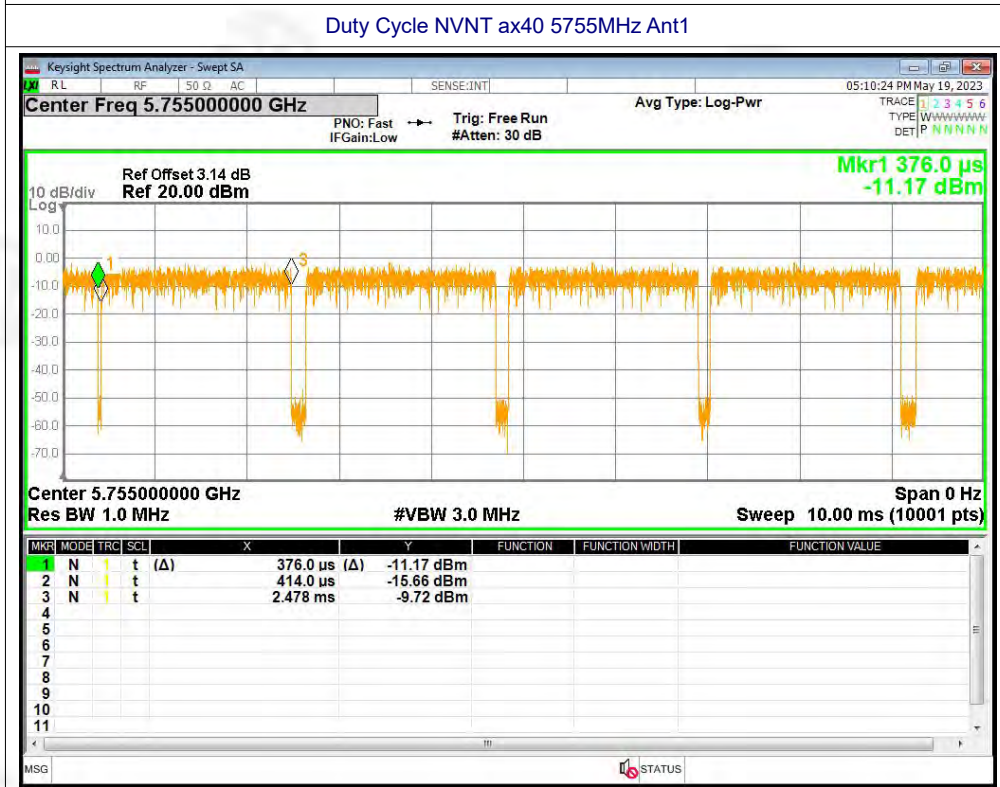




Duty Cycle NVNT ax20 5825MHz Ant1



Duty Cycle NVNT ax40 5755MHz Ant1





Duty Cycle NVNT ax40 5795MHz Ant1



Duty Cycle NVNT ax80 5775MHz Ant1





## B.2 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    | 7.7                   | 0.31             | 8.01              | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 8.15                  | 0.24             | 8.39              | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 9.42                  | 0.13             | 9.55              | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 7.65                  | 0.3              | 7.95              | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 8.02                  | 0.28             | 8.3               | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 9.19                  | 0.12             | 9.31              | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 8.2                   | 0.33             | 8.53              | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 8.71                  | 0.24             | 8.95              | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 7.74                  | 0.33             | 8.07              | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 8.06                  | 0                | 8.06              | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 9.15                  | 0.28             | 9.43              | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 8.23                  | 0.24             | 8.47              | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 8.54                  | 0.11             | 8.65              | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 8.25                  | 0.1              | 8.35              | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 7.24                  | 0.35             | 7.59              | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 7.89                  | 0.33             | 8.22              | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 9                     | 0.31             | 9.31              | 30          | Pass    |
| NVNT      | ax40 | 5755            | Ant1    | 7.02                  | 0                | 7.02              | 30          | Pass    |
| NVNT      | ax40 | 5795            | Ant1    | 7.38                  | 0.15             | 7.53              | 30          | Pass    |
| NVNT      | ax80 | 5775            | Ant1    | 6.09                  | 0.13             | 6.22              | 30          | Pass    |

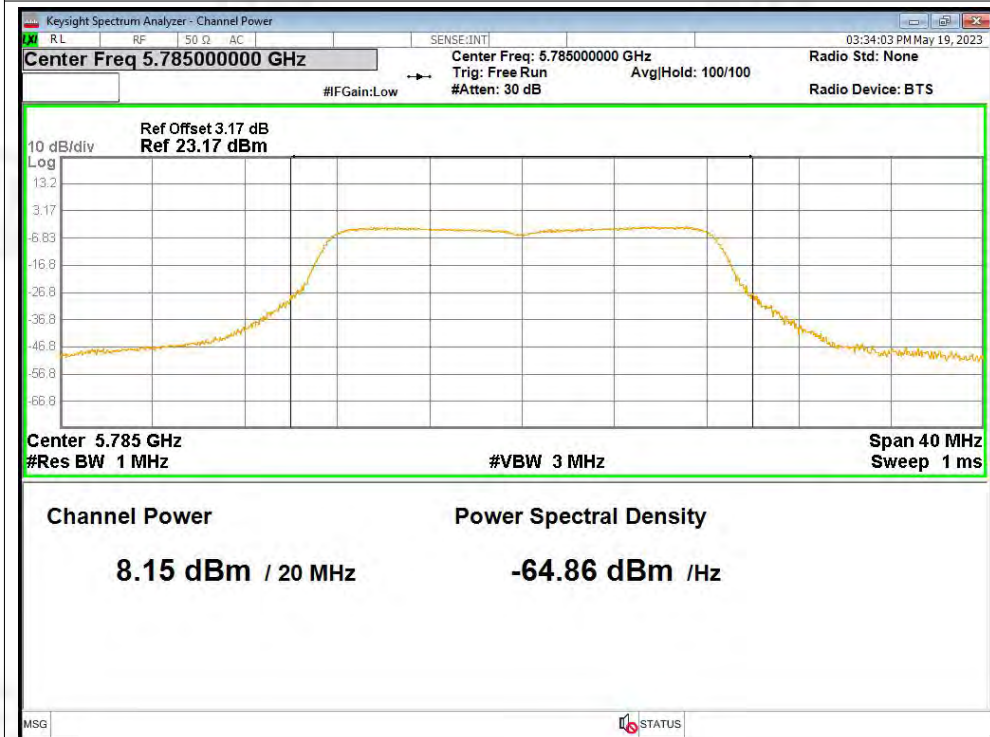


Test Graphs

Power NVNT a 5745MHz Ant1

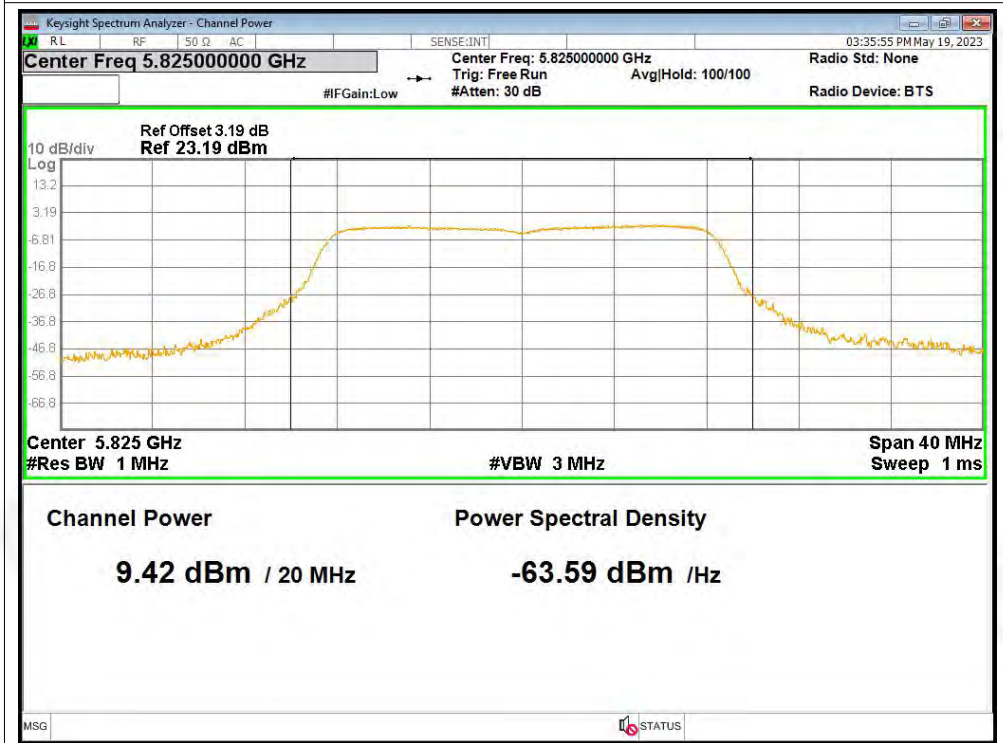


Power NVNT a 5785MHz Ant1

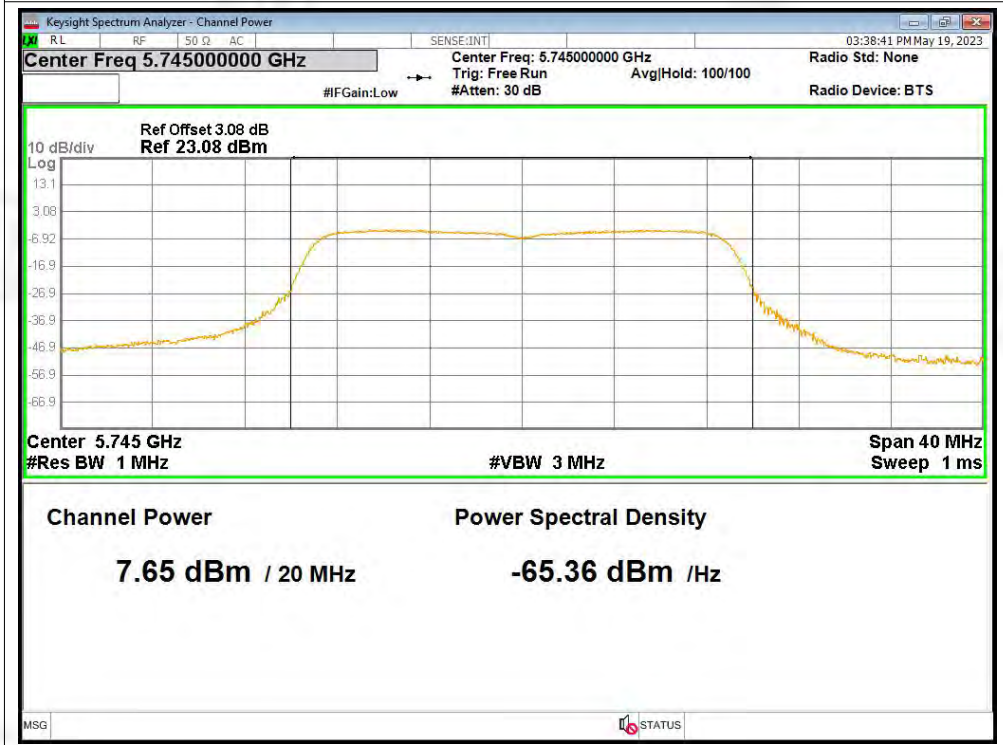


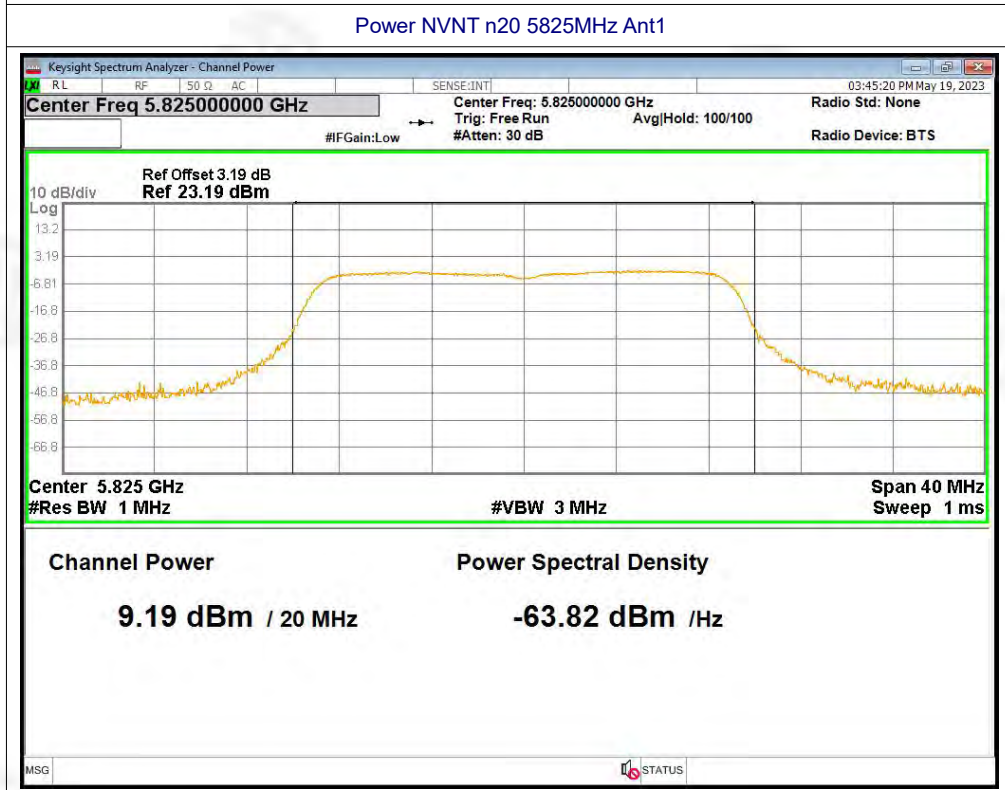
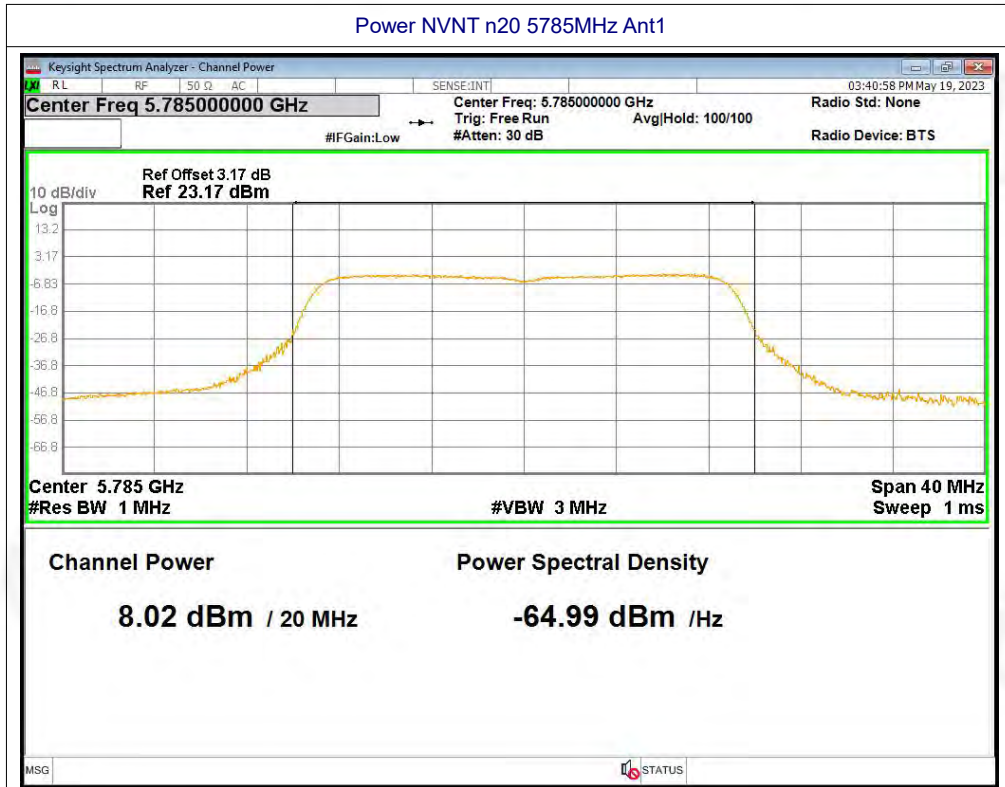


Power NVNT a 5825MHz Ant1

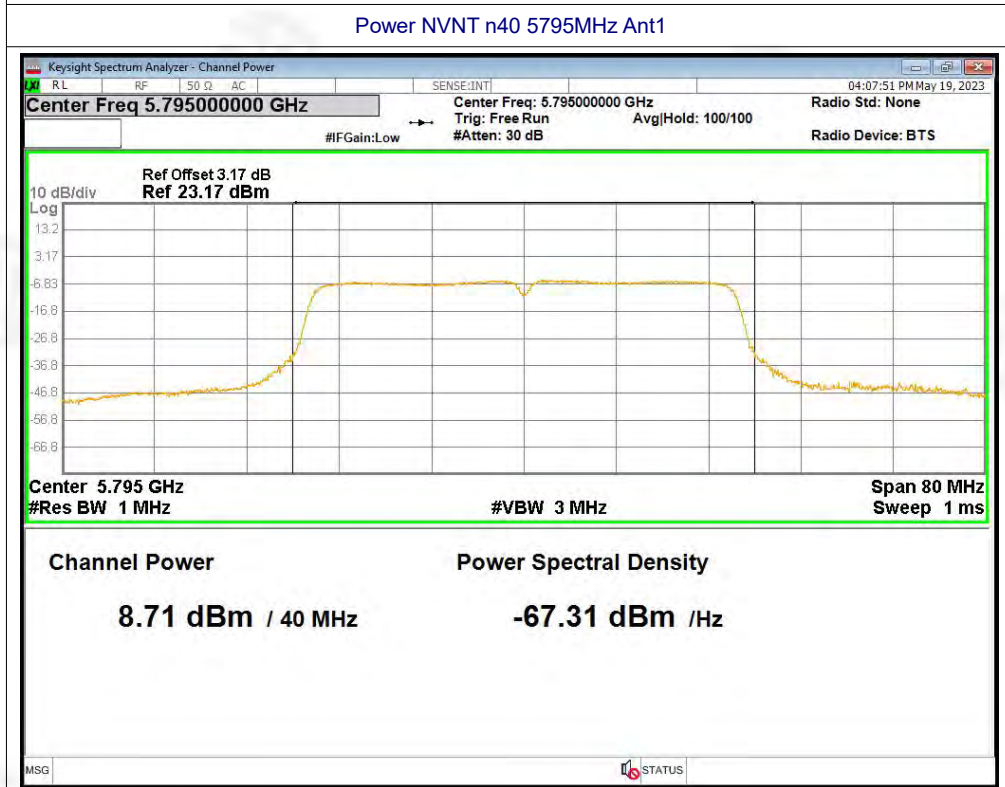
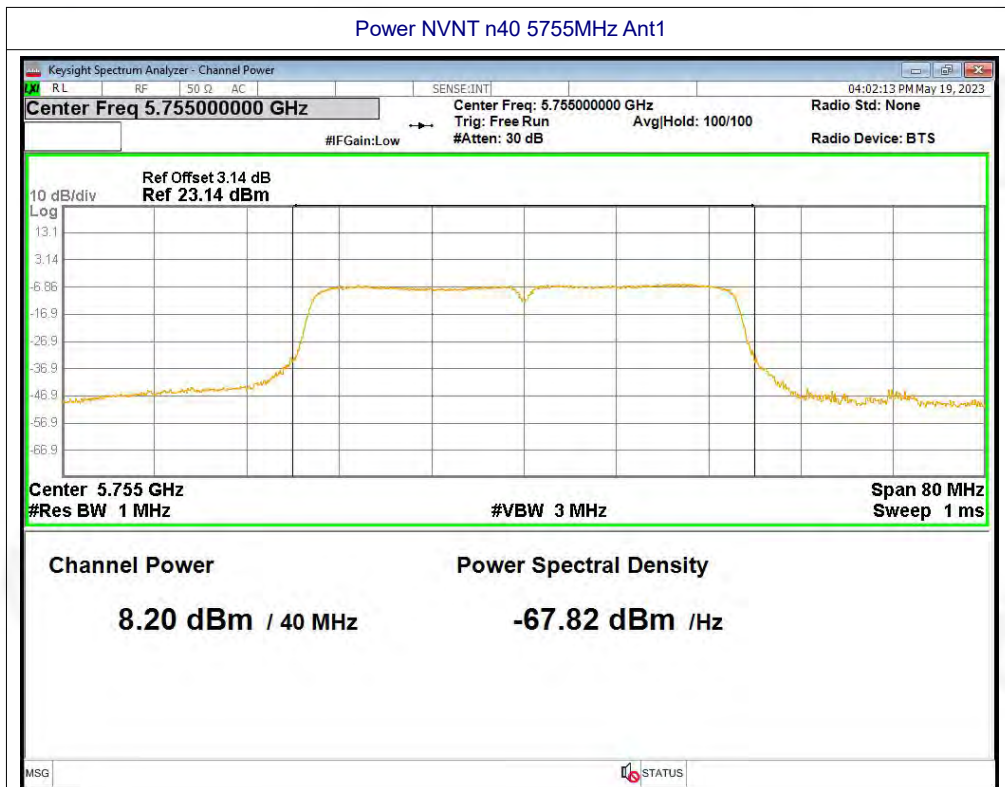


Power NVNT n20 5745MHz Ant1



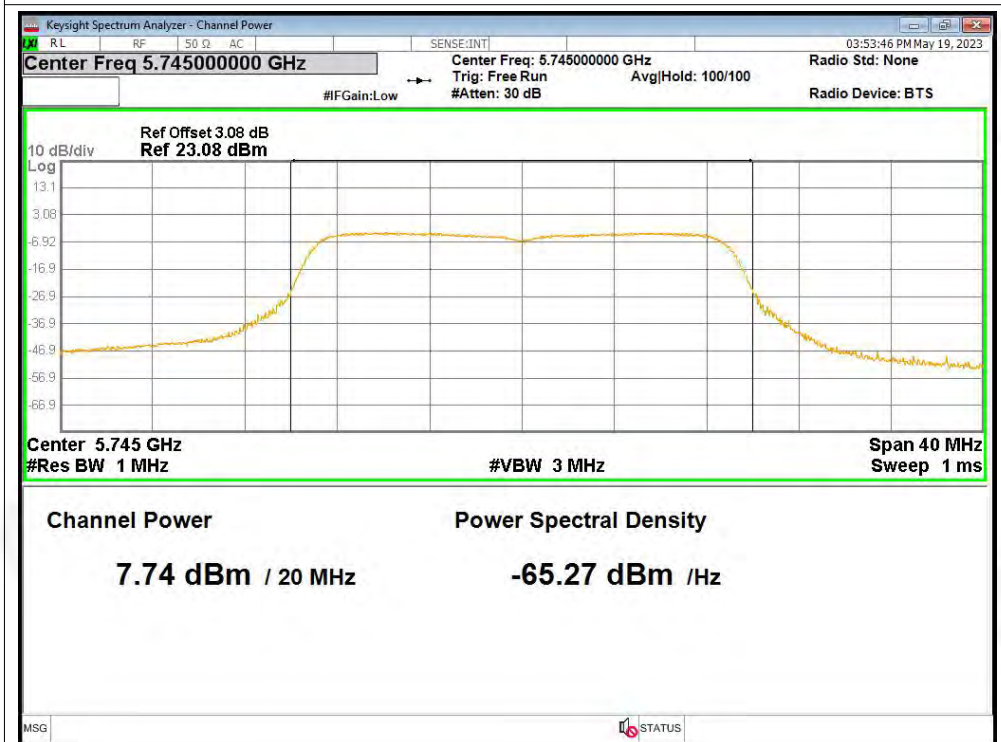




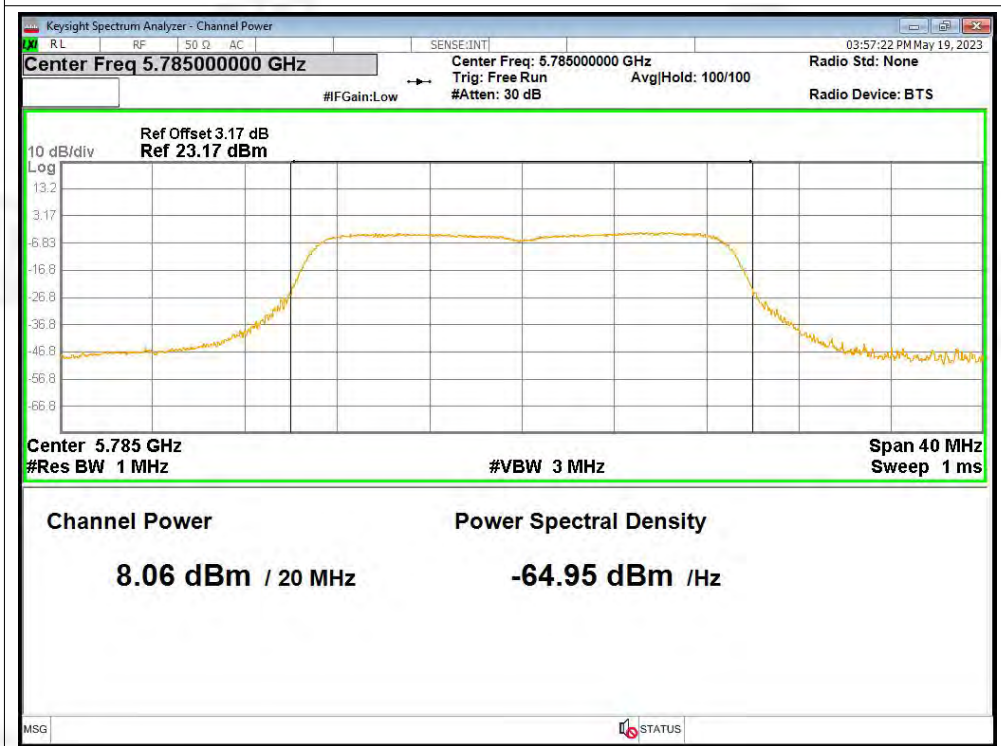




Power NVNT ac20 5745MHz Ant1

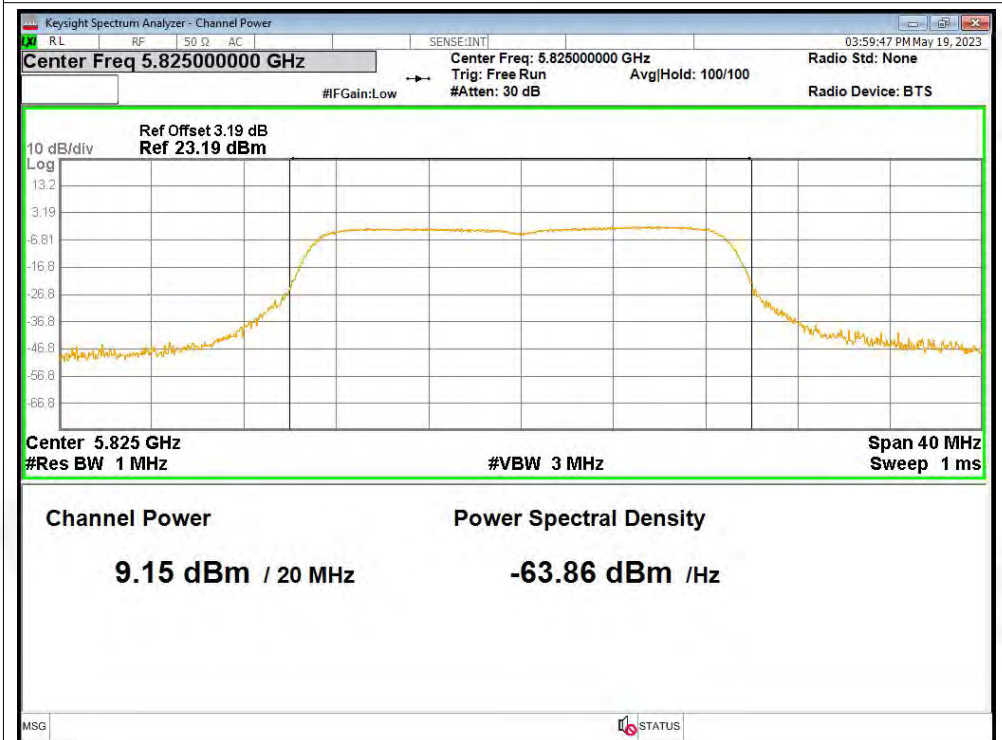


Power NVNT ac20 5785MHz Ant1

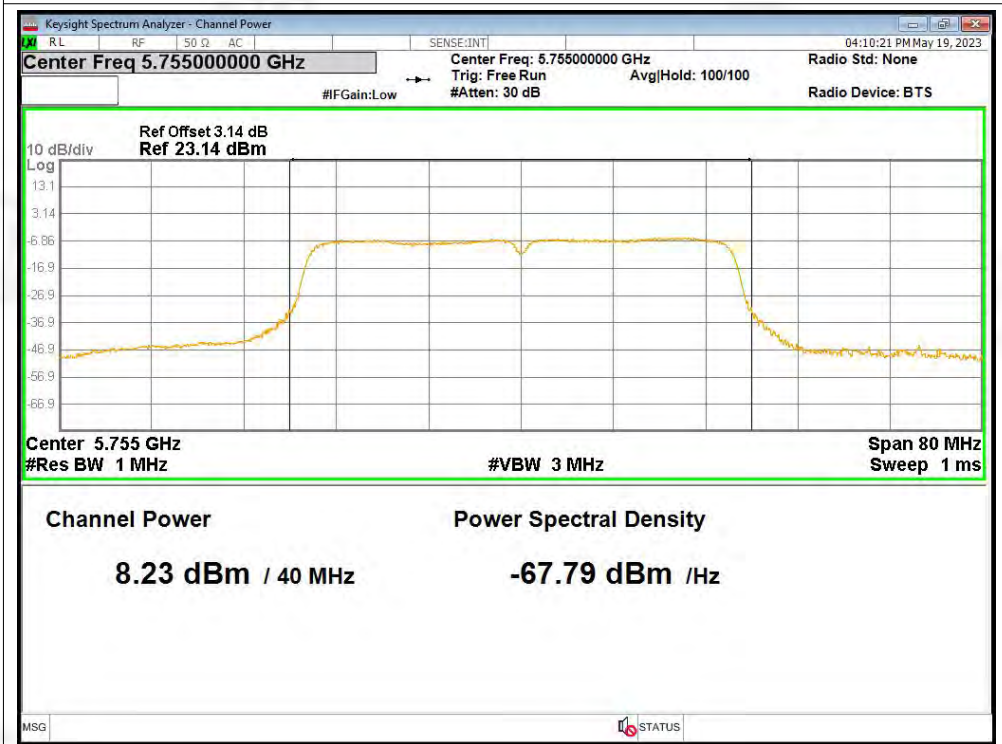




Power NVNT ac20 5825MHz Ant1

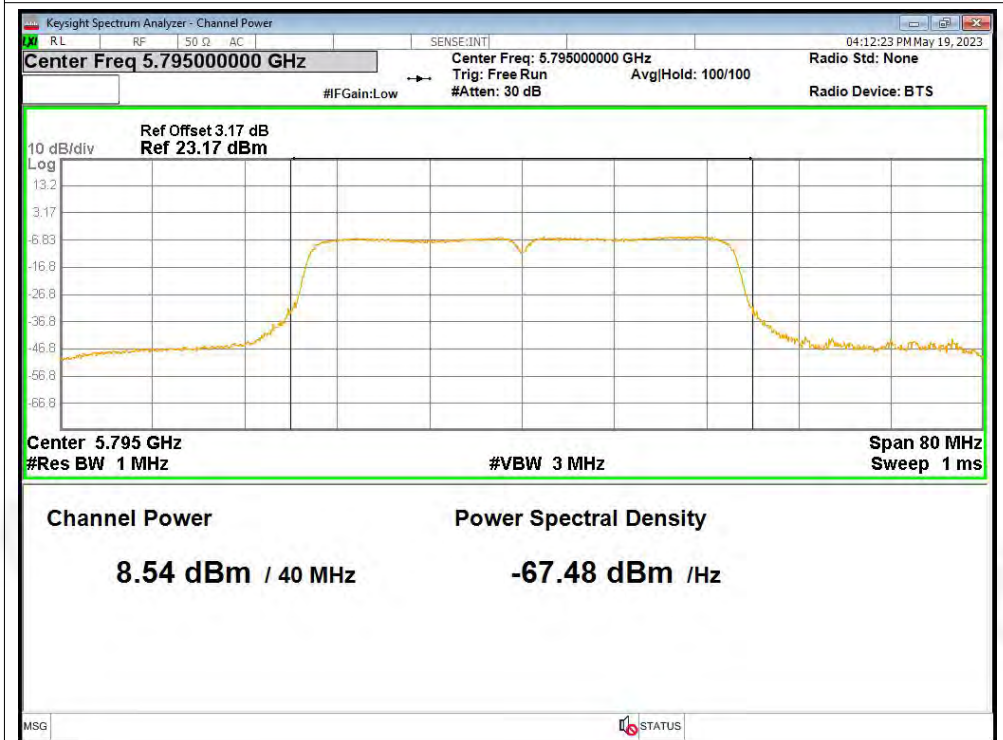


Power NVNT ac40 5755MHz Ant1

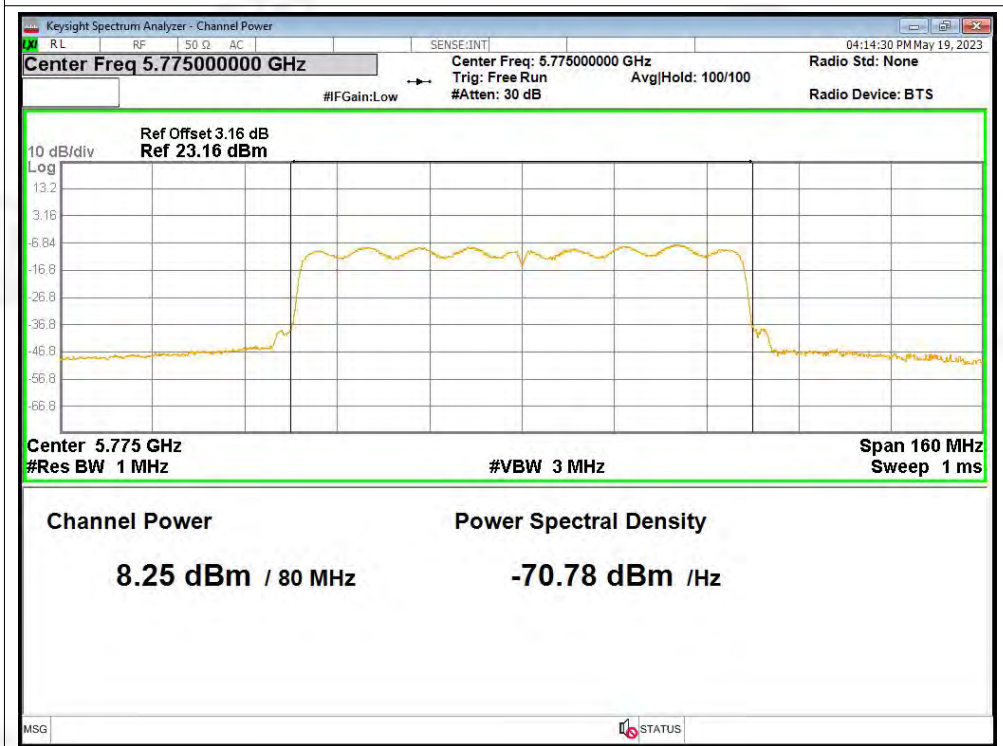




Power NVNT ac40 5795MHz Ant1

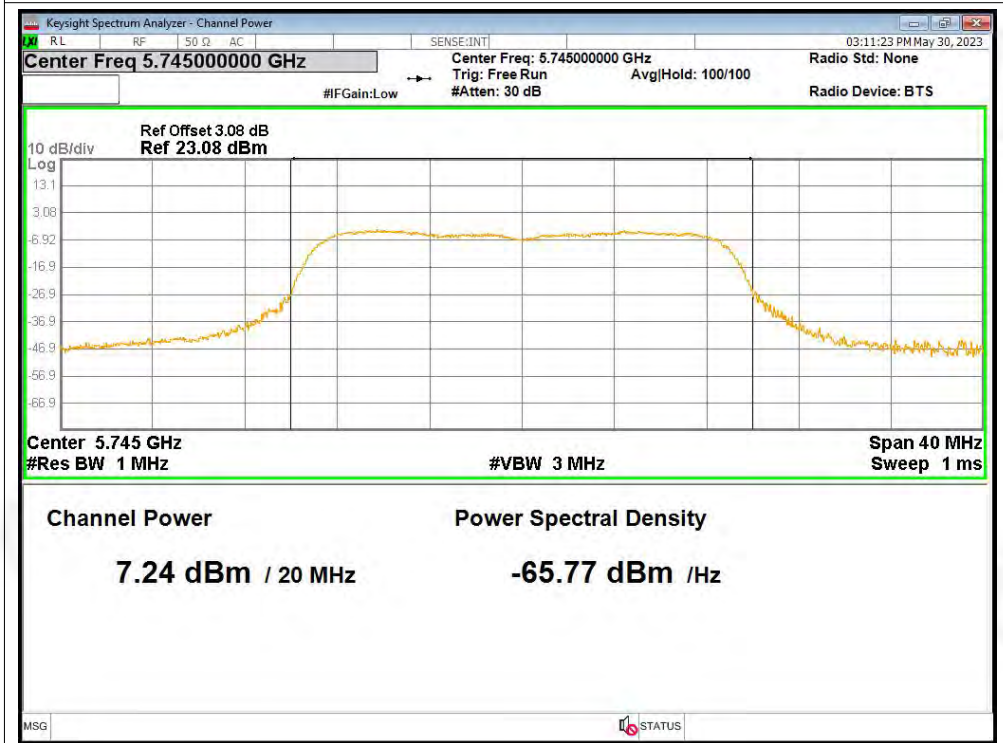


Power NVNT ac80 5775MHz Ant1

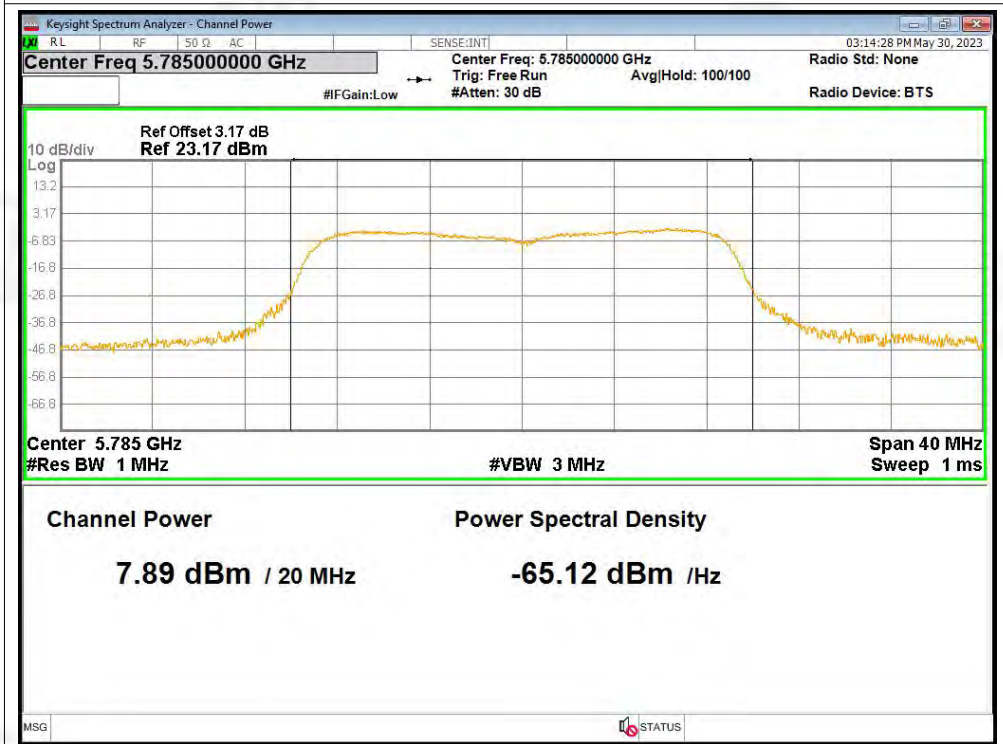




Power NVNT ax20 5745MHz Ant1

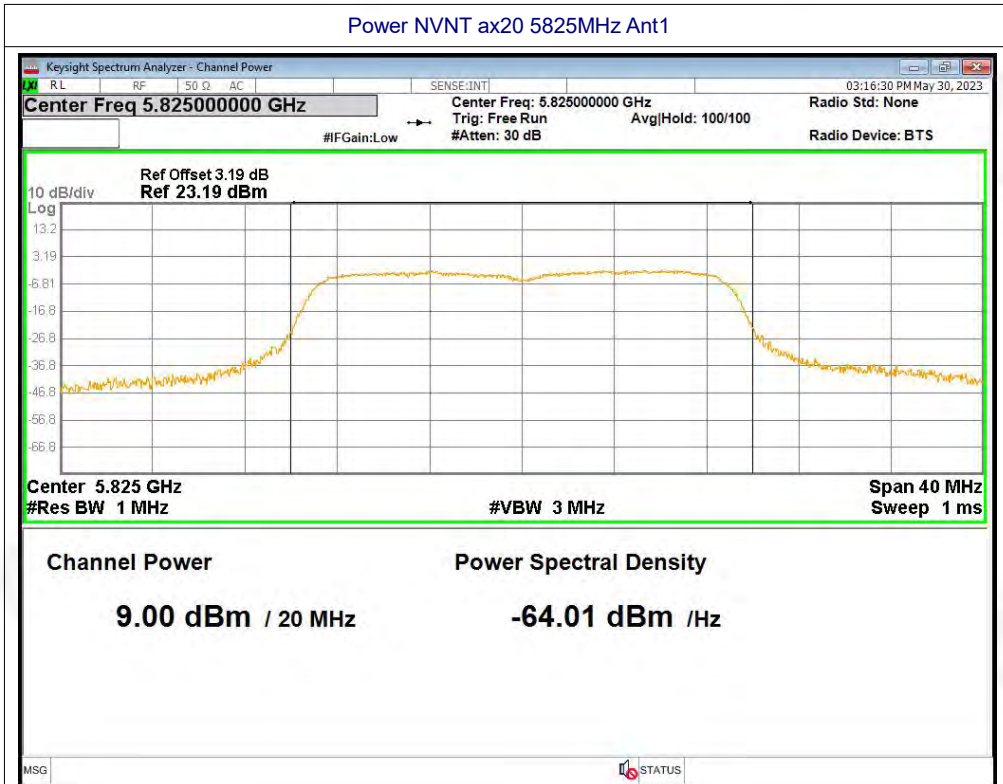


Power NVNT ax20 5785MHz Ant1

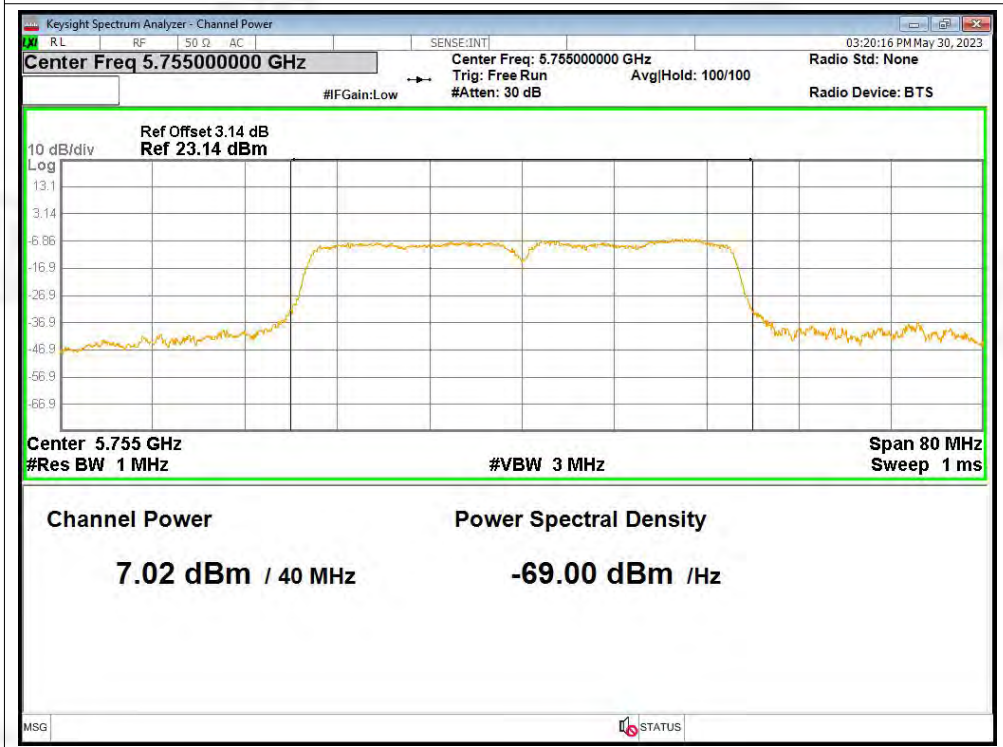




Power NVNT ax20 5825MHz Ant1

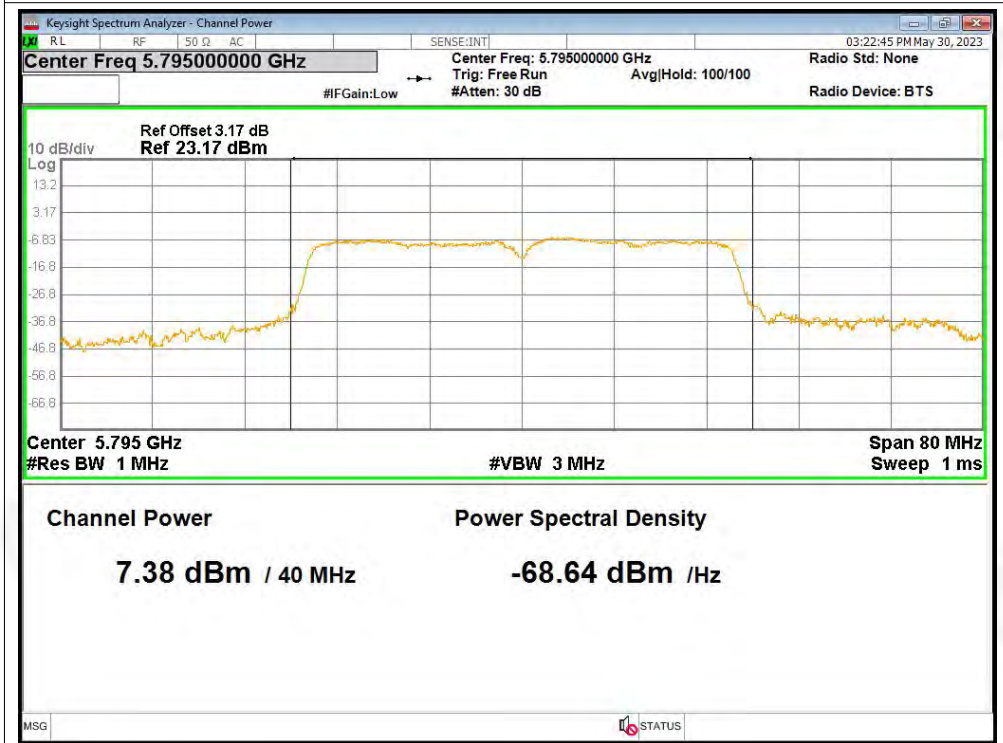


Power NVNT ax40 5755MHz Ant1

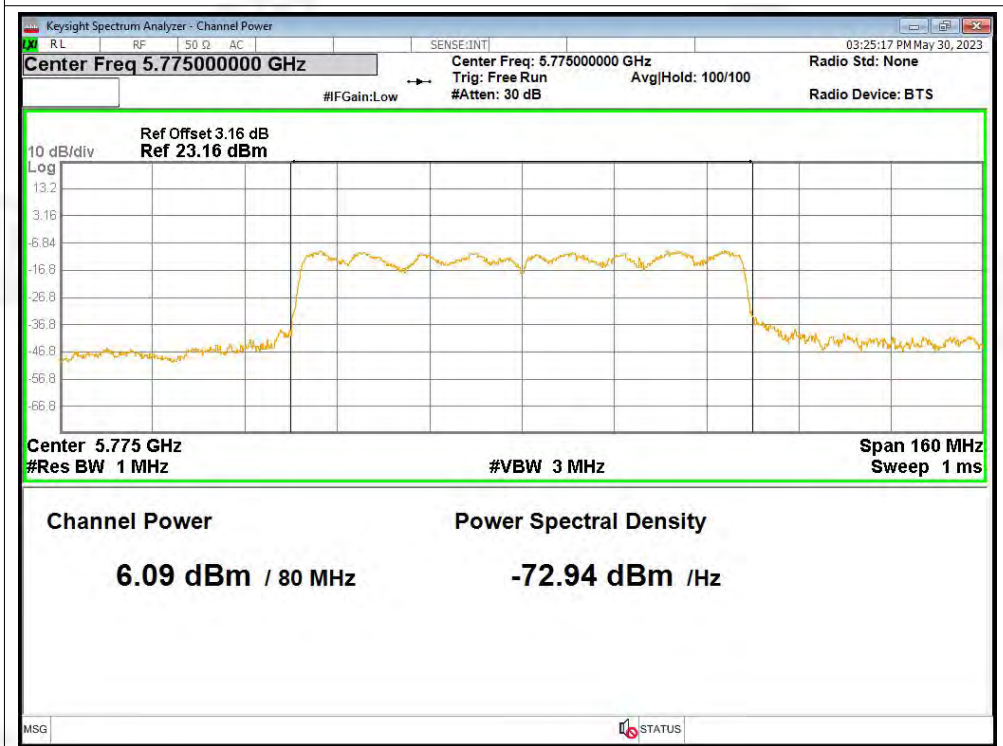




Power NVNT ax40 5795MHz Ant1



Power NVNT ax80 5775MHz Ant1





### B.3 -6dB Bandwidth

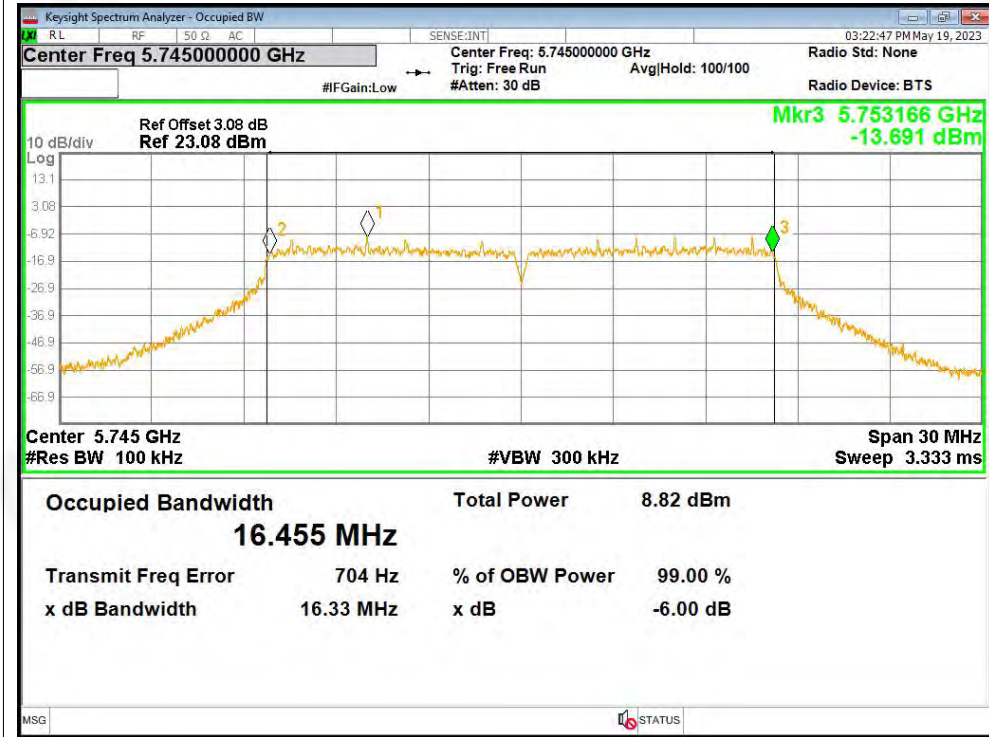
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 16.331                | 0.5                         | Pass    |
| NVNT      | a    | 5785            | Ant1    | 16.332                | 0.5                         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 16.315                | 0.5                         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 17.086                | 0.5                         | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 17.075                | 0.5                         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 17.121                | 0.5                         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 35.092                | 0.5                         | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 35.236                | 0.5                         | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 16.815                | 0.5                         | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 17.554                | 0.5                         | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 16.68                 | 0.5                         | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 35.385                | 0.5                         | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 35.552                | 0.5                         | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 75.113                | 0.5                         | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 17.169                | 0.5                         | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 17.597                | 0.5                         | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 16.998                | 0.5                         | Pass    |
| NVNT      | ax40 | 5755            | Ant1    | 35.562                | 0.5                         | Pass    |
| NVNT      | ax40 | 5795            | Ant1    | 35.181                | 0.5                         | Pass    |
| NVNT      | ax80 | 5775            | Ant1    | 75.132                | 0.5                         | Pass    |



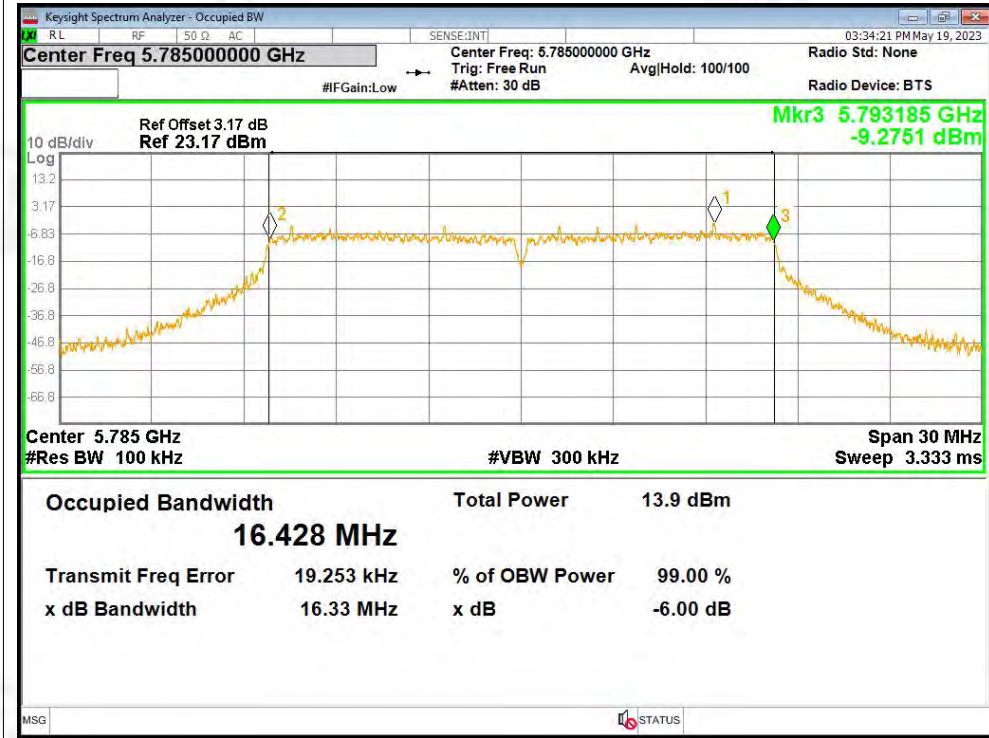


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

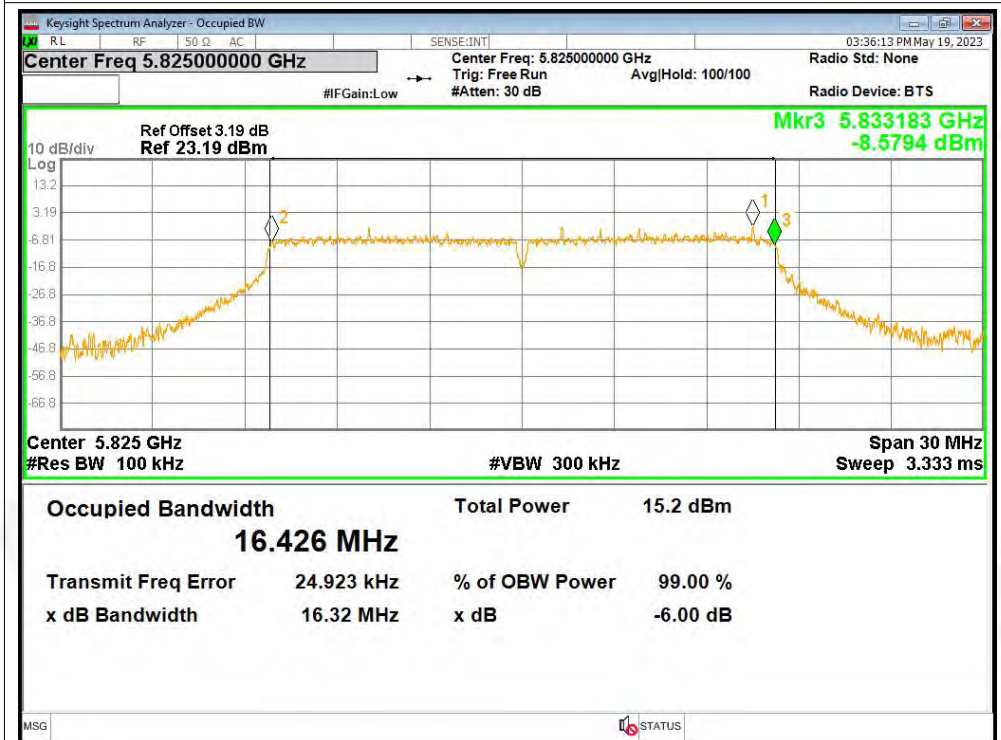


-6dB Bandwidth NVNT a 5785MHz Ant1

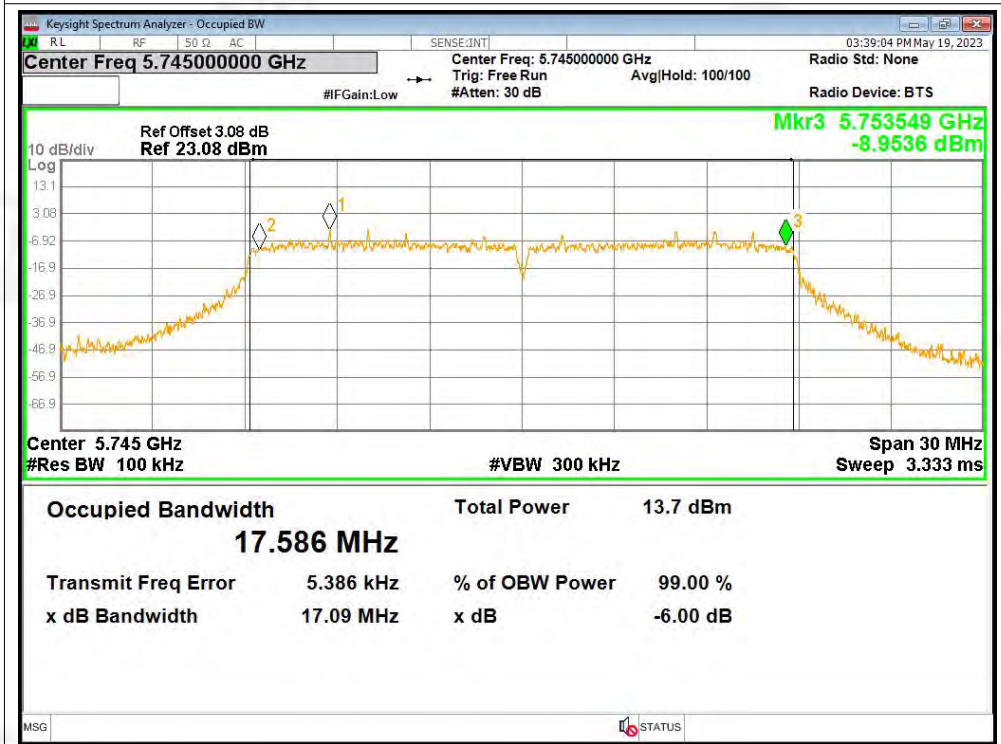




-6dB Bandwidth NVNT a 5825MHz Ant1

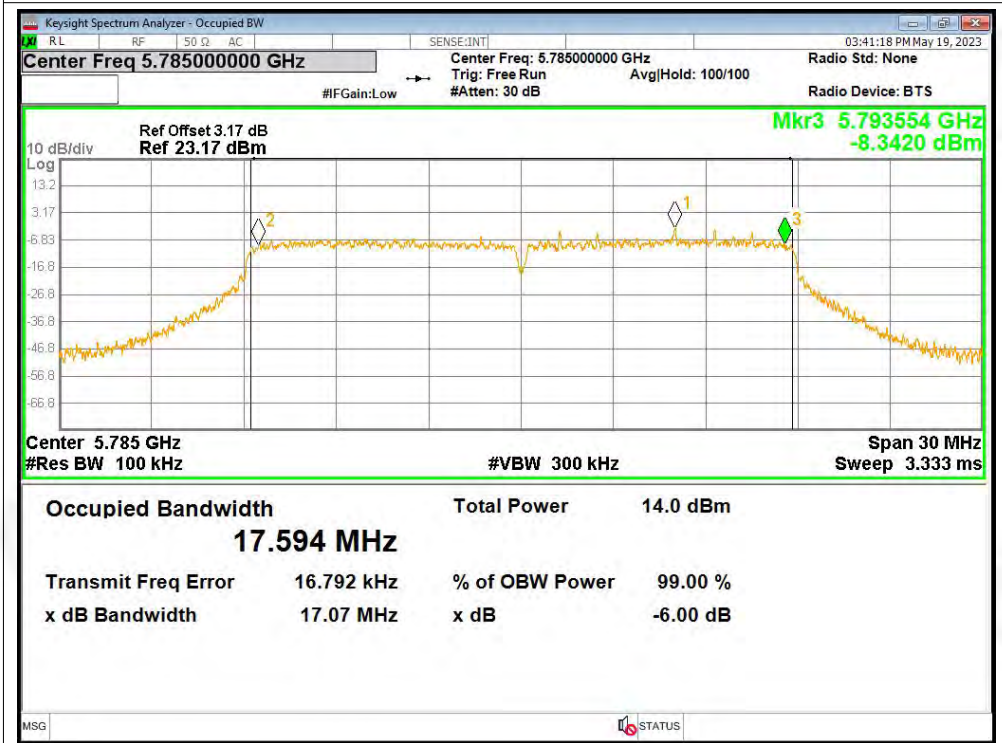


-6dB Bandwidth NVNT n20 5745MHz Ant1

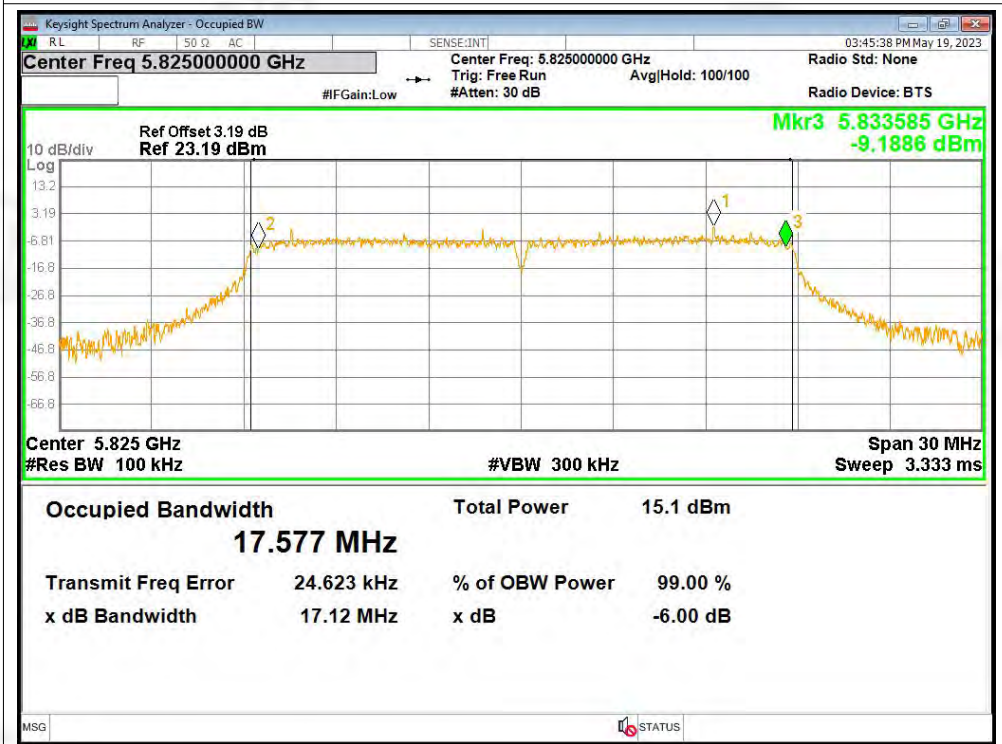


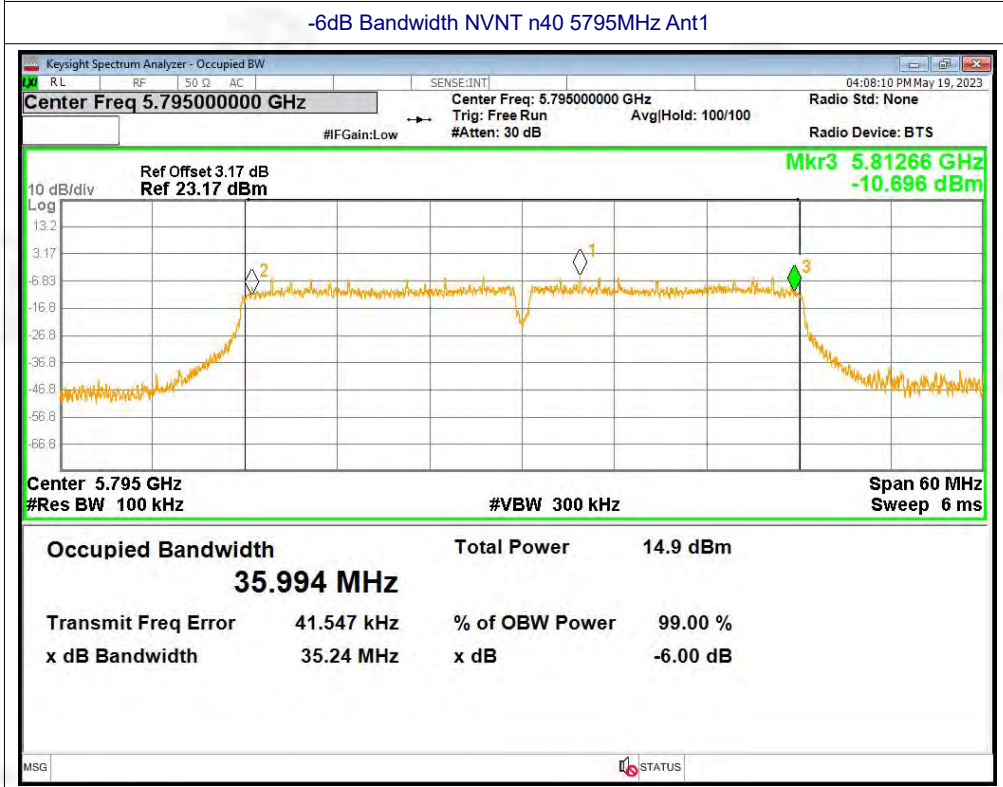
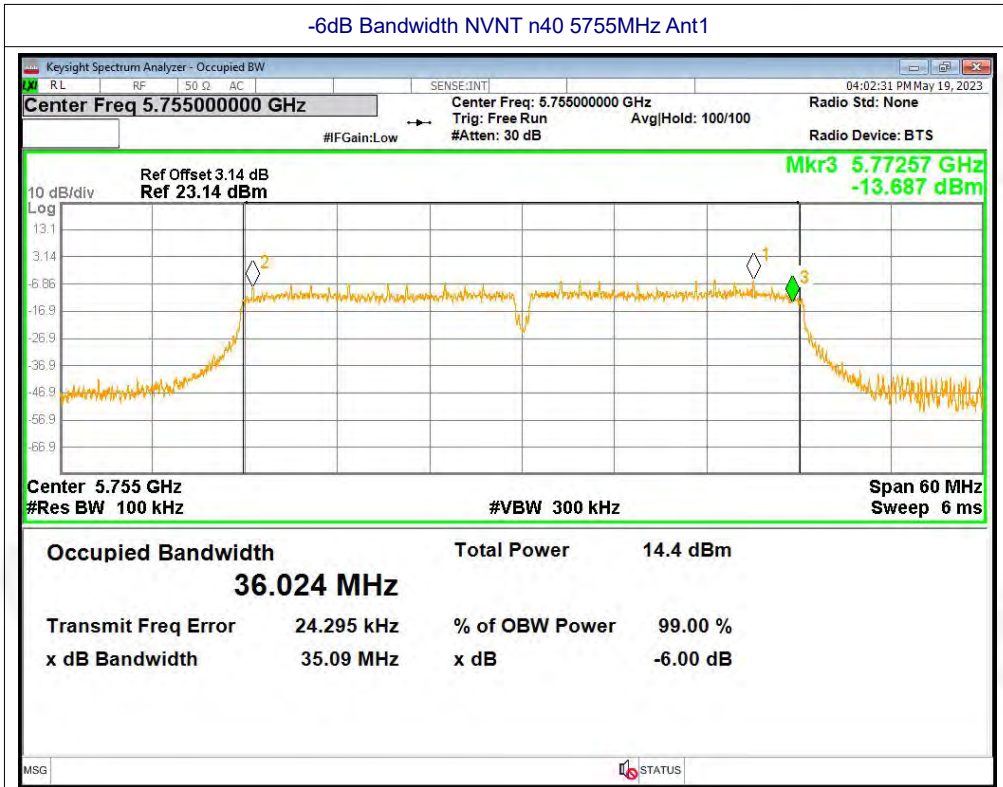


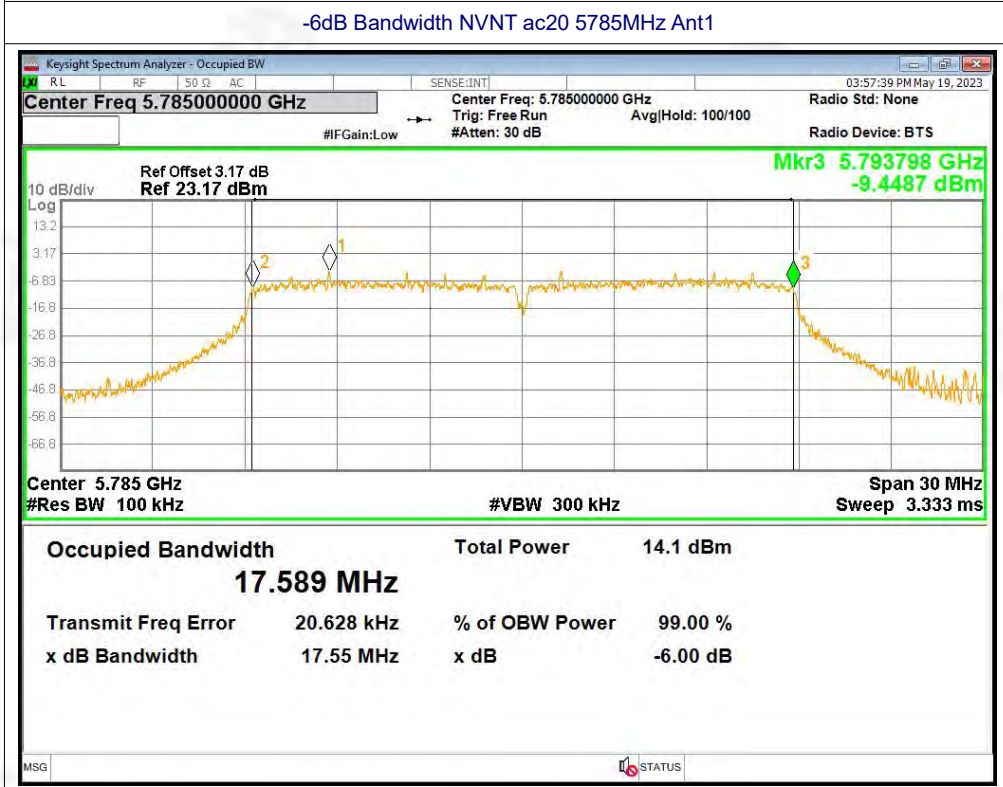
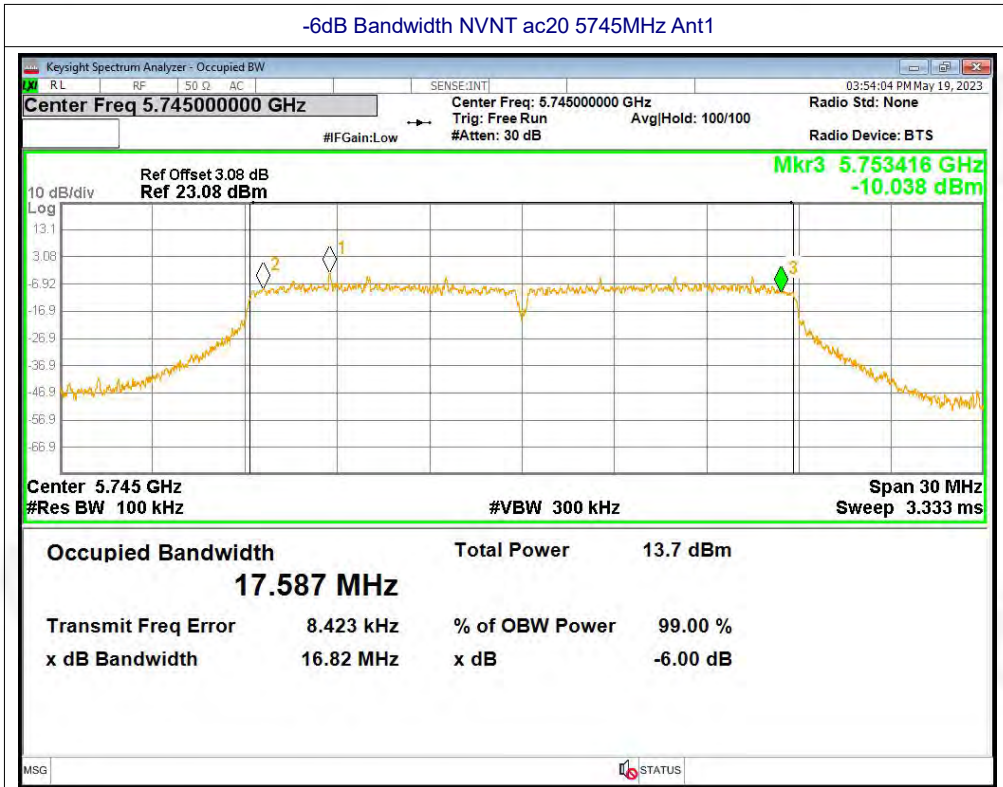
-6dB Bandwidth NVNT n20 5785MHz Ant1

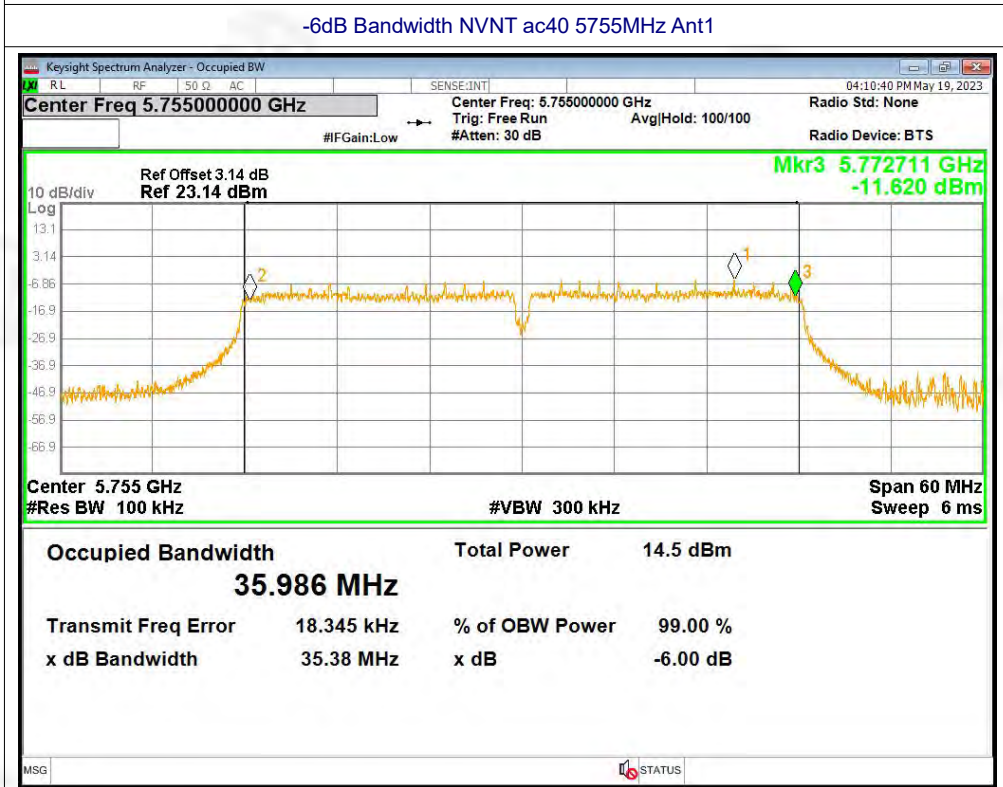
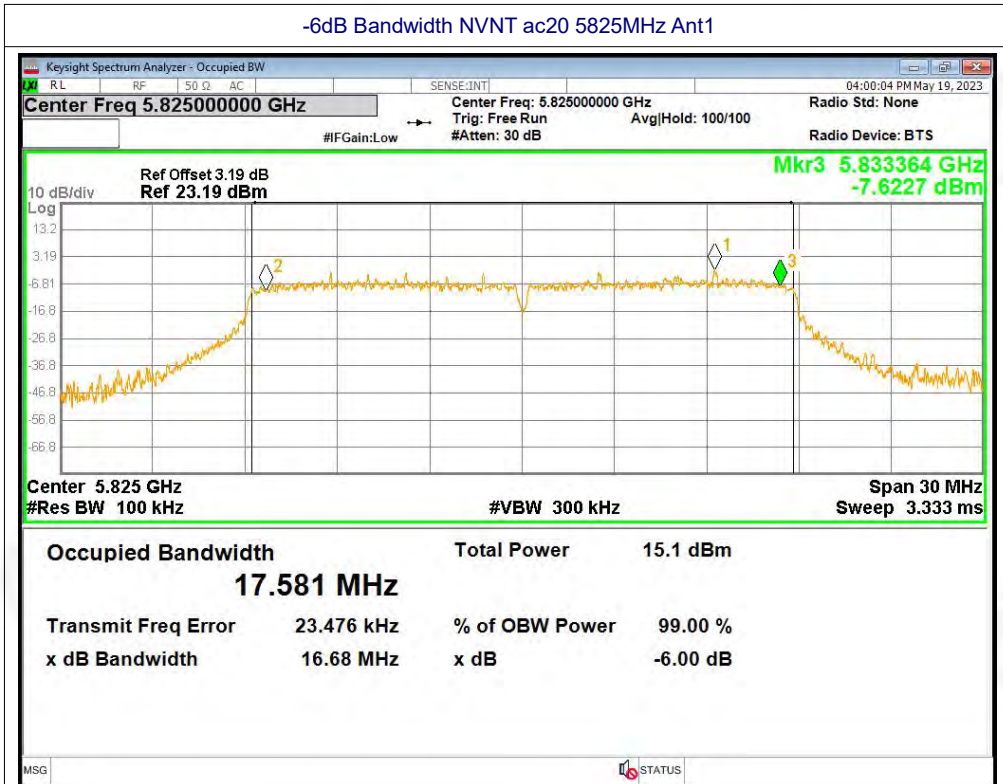


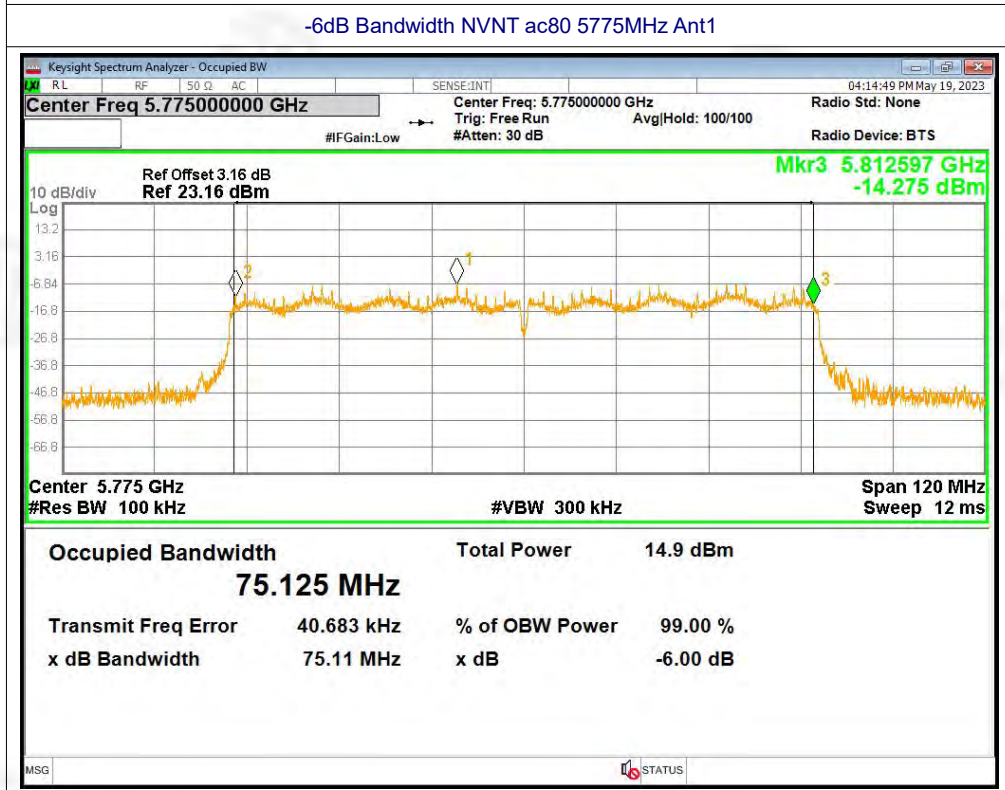
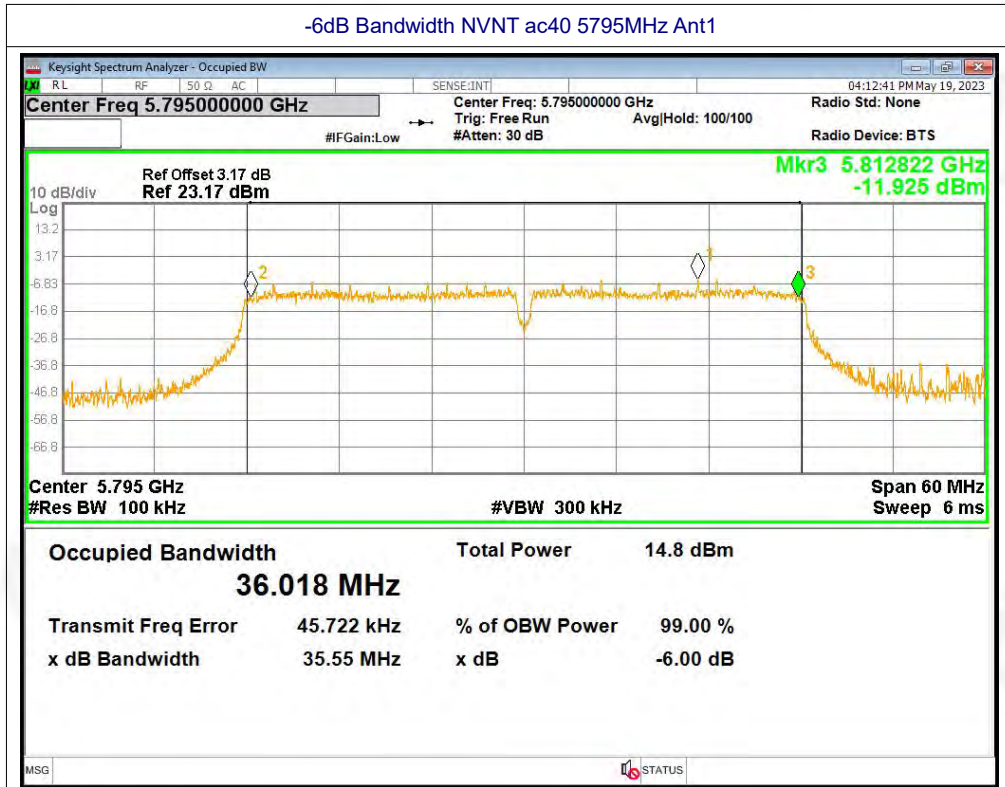
-6dB Bandwidth NVNT n20 5825MHz Ant1

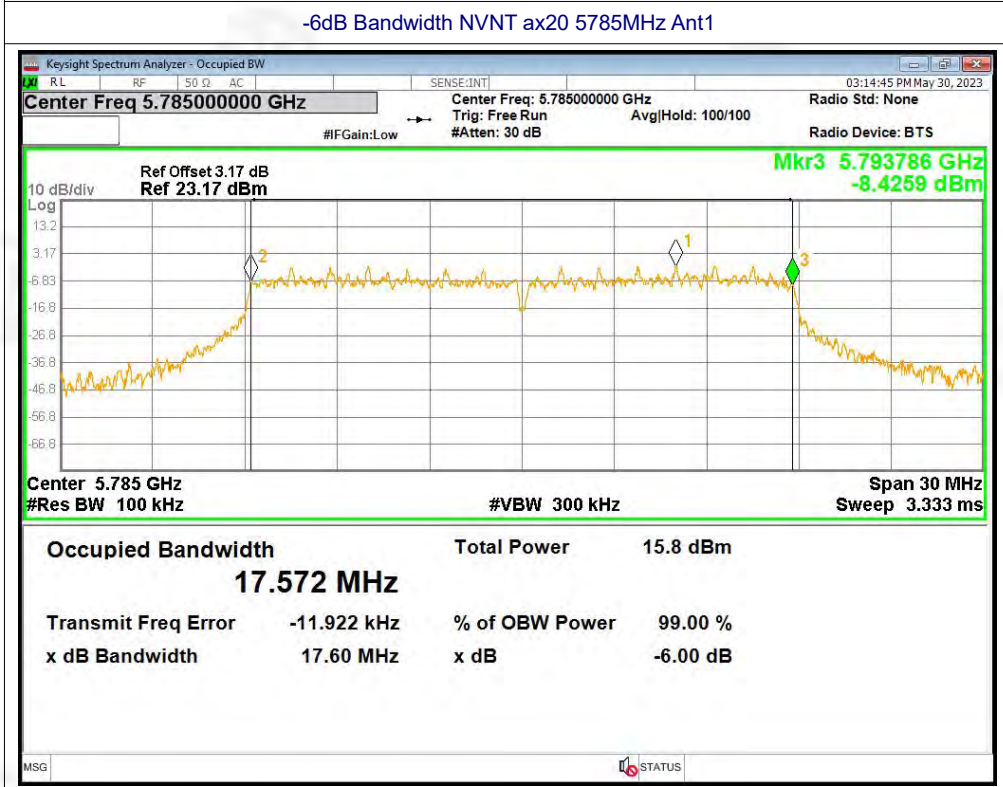
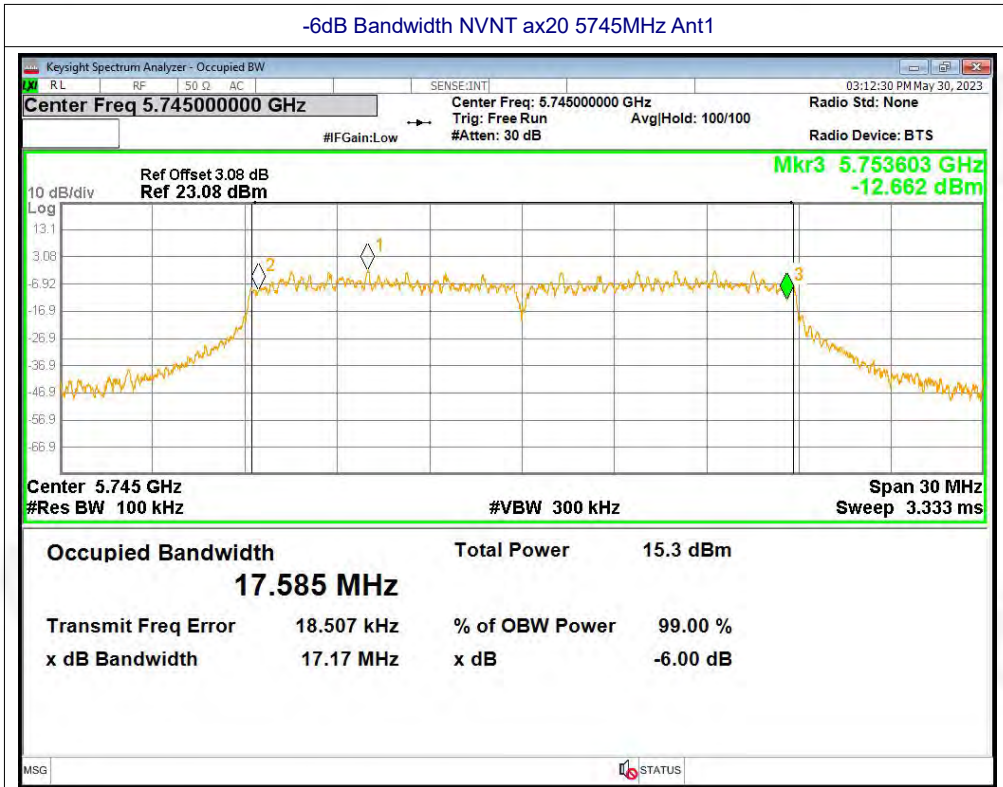








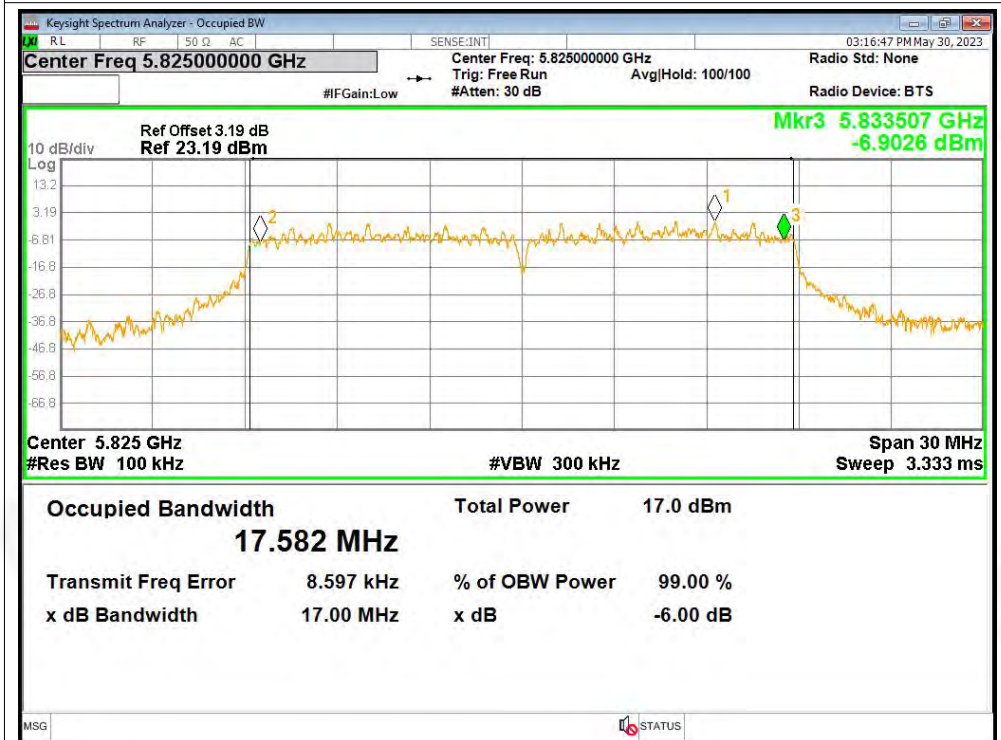




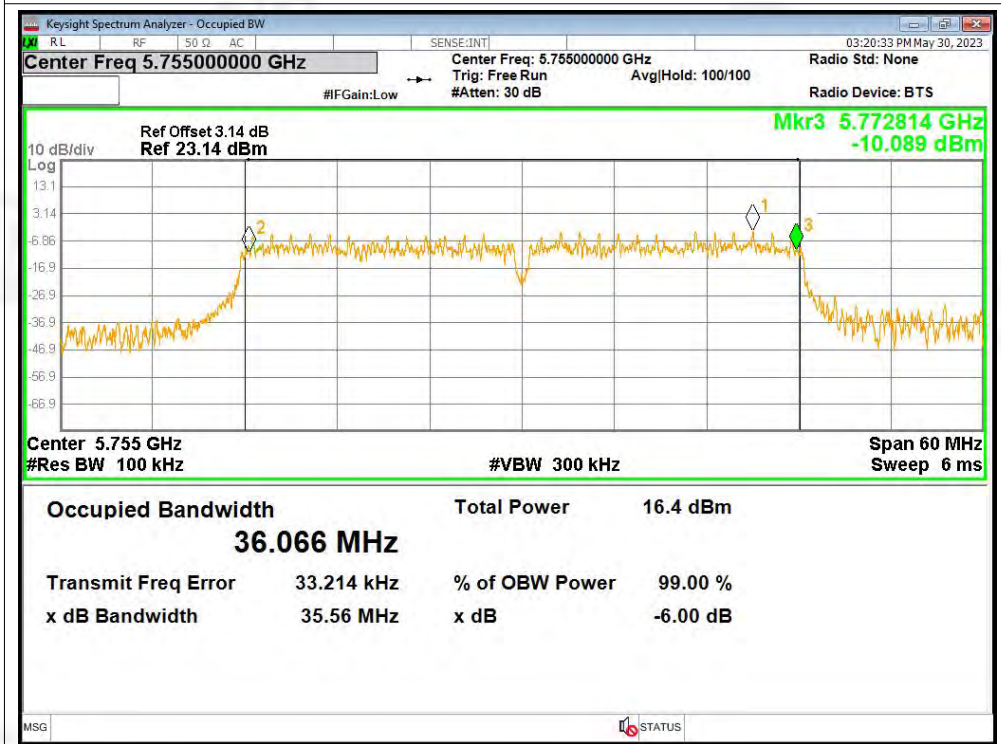


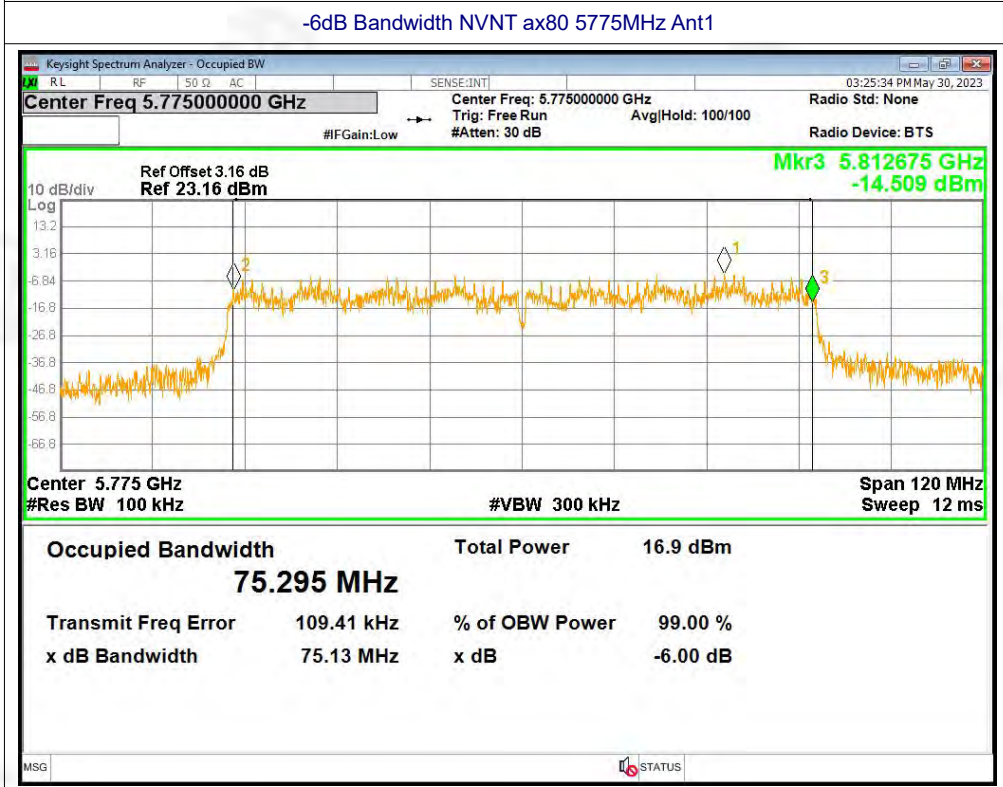
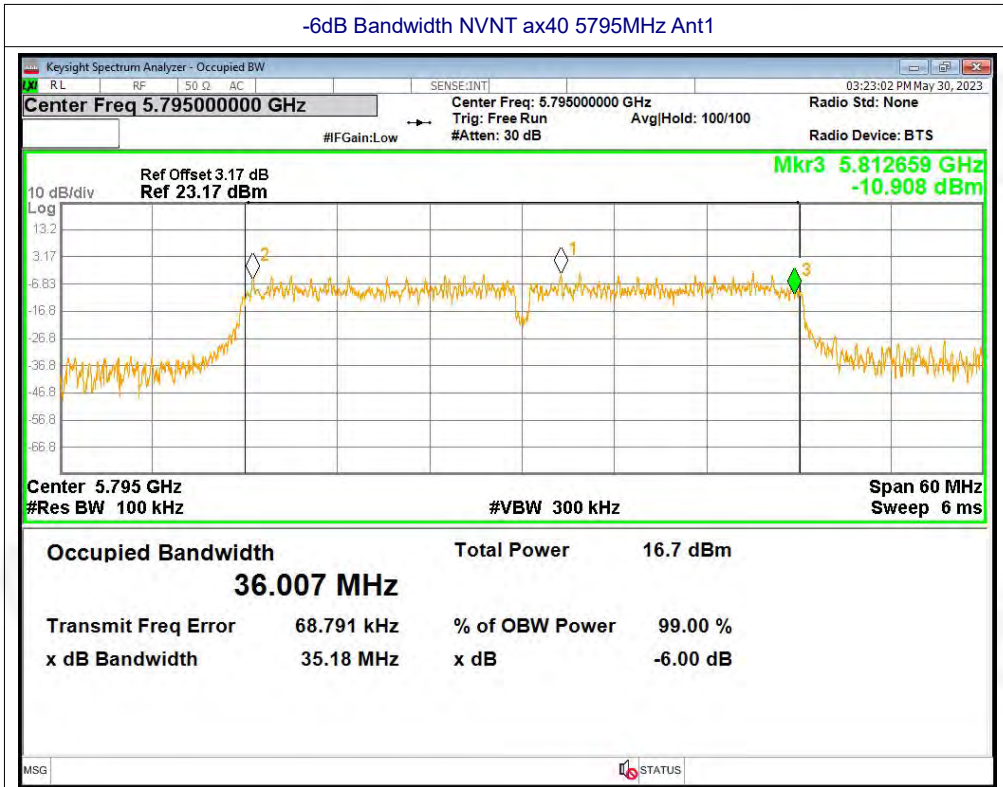


-6dB Bandwidth NVNT ax20 5825MHz Ant1



-6dB Bandwidth NVNT ax40 5755MHz Ant1







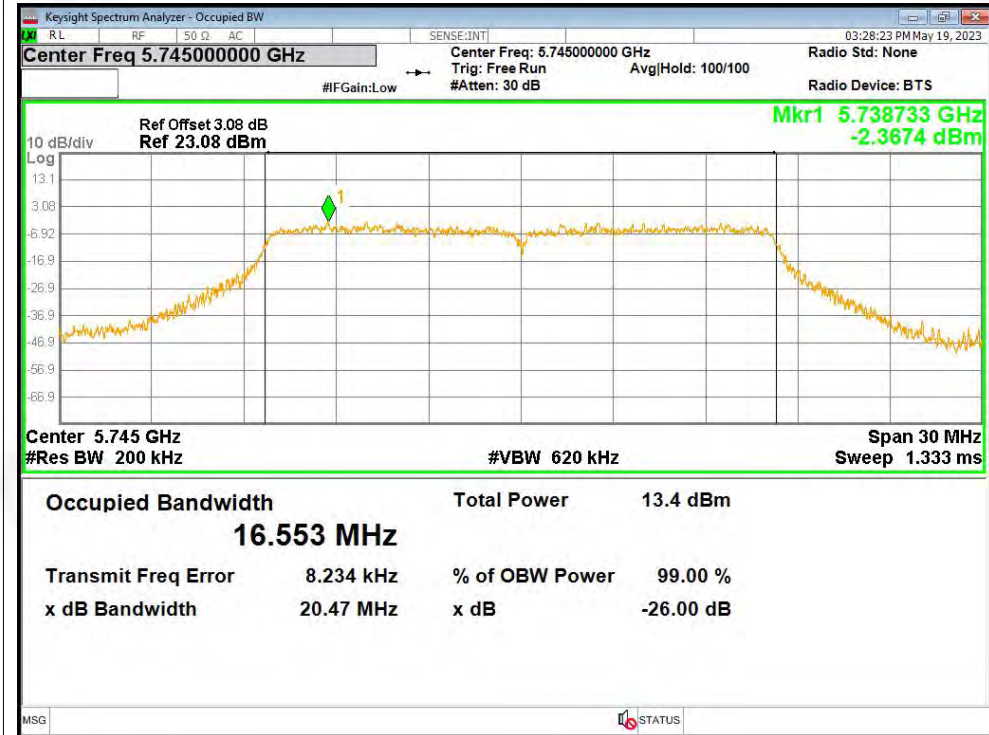
## B.4 Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.553        |
| NVNT      | a    | 5785            | Ant1    | 16.557        |
| NVNT      | a    | 5825            | Ant1    | 16.544        |
| NVNT      | n20  | 5745            | Ant1    | 17.622        |
| NVNT      | n20  | 5785            | Ant1    | 17.638        |
| NVNT      | n20  | 5825            | Ant1    | 17.62         |
| NVNT      | n40  | 5755            | Ant1    | 36.178        |
| NVNT      | n40  | 5795            | Ant1    | 36.201        |
| NVNT      | ac20 | 5745            | Ant1    | 17.639        |
| NVNT      | ac20 | 5785            | Ant1    | 17.621        |
| NVNT      | ac20 | 5825            | Ant1    | 17.614        |
| NVNT      | ac40 | 5755            | Ant1    | 36.079        |
| NVNT      | ac40 | 5795            | Ant1    | 36.059        |
| NVNT      | ac80 | 5775            | Ant1    | 75.272        |
| NVNT      | ax20 | 5745            | Ant1    | 17.642        |
| NVNT      | ax20 | 5785            | Ant1    | 17.607        |
| NVNT      | ax20 | 5825            | Ant1    | 17.625        |
| NVNT      | ax40 | 5755            | Ant1    | 36.221        |
| NVNT      | ax40 | 5795            | Ant1    | 36.189        |
| NVNT      | ax80 | 5775            | Ant1    | 75.595        |

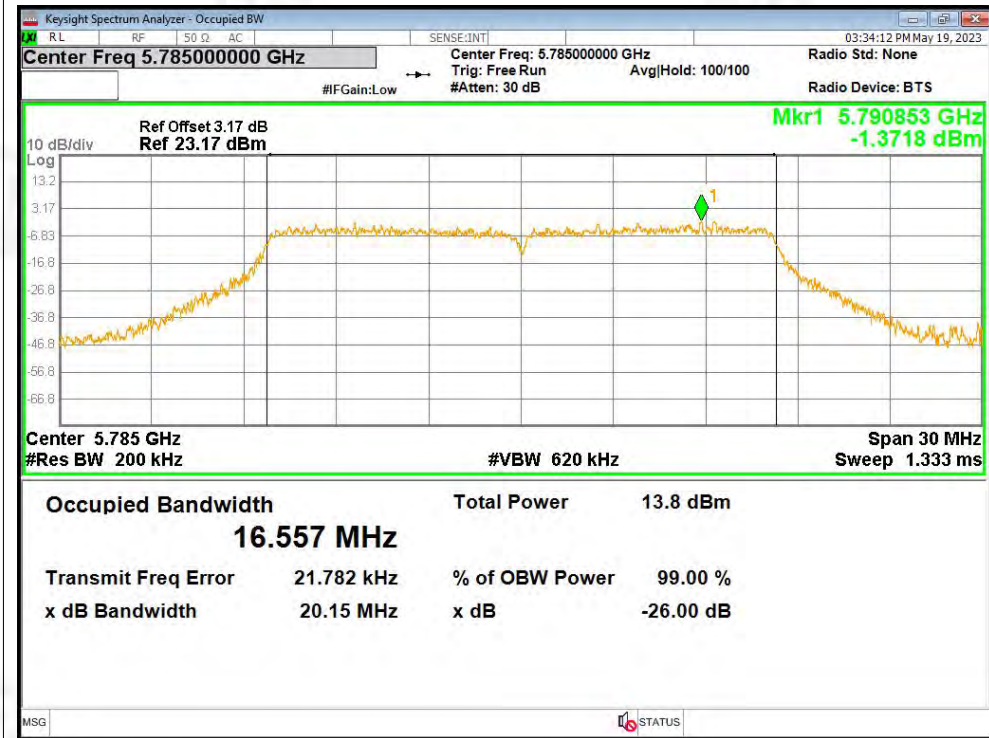


Test Graphs

OBW NVNT a 5745MHz Ant1

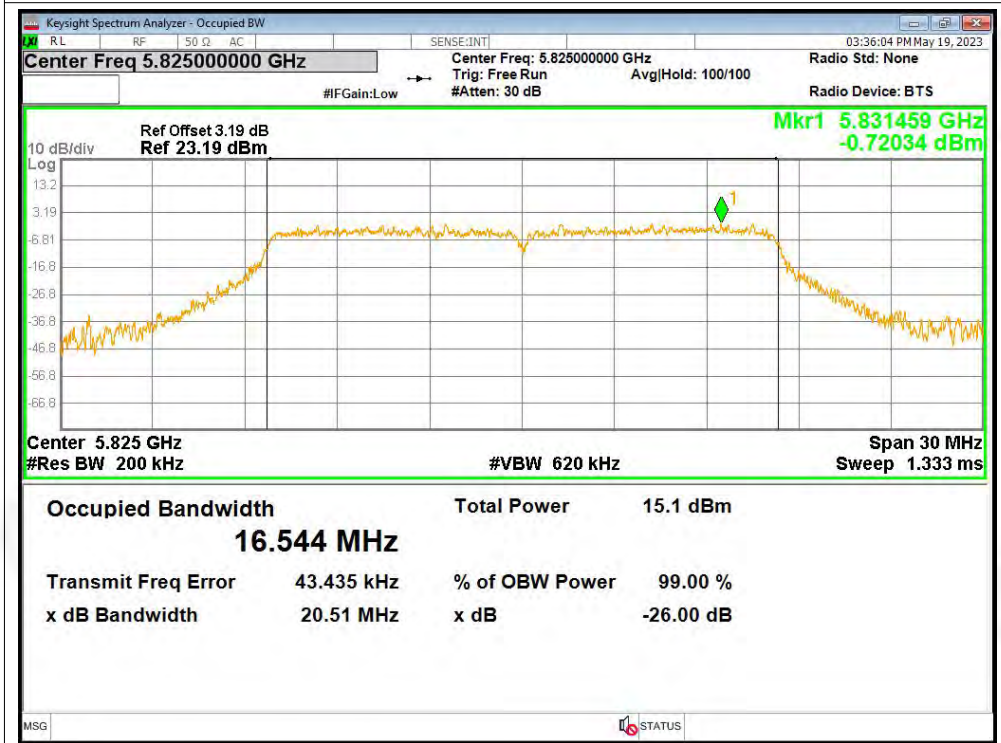


OBW NVNT a 5785MHz Ant1

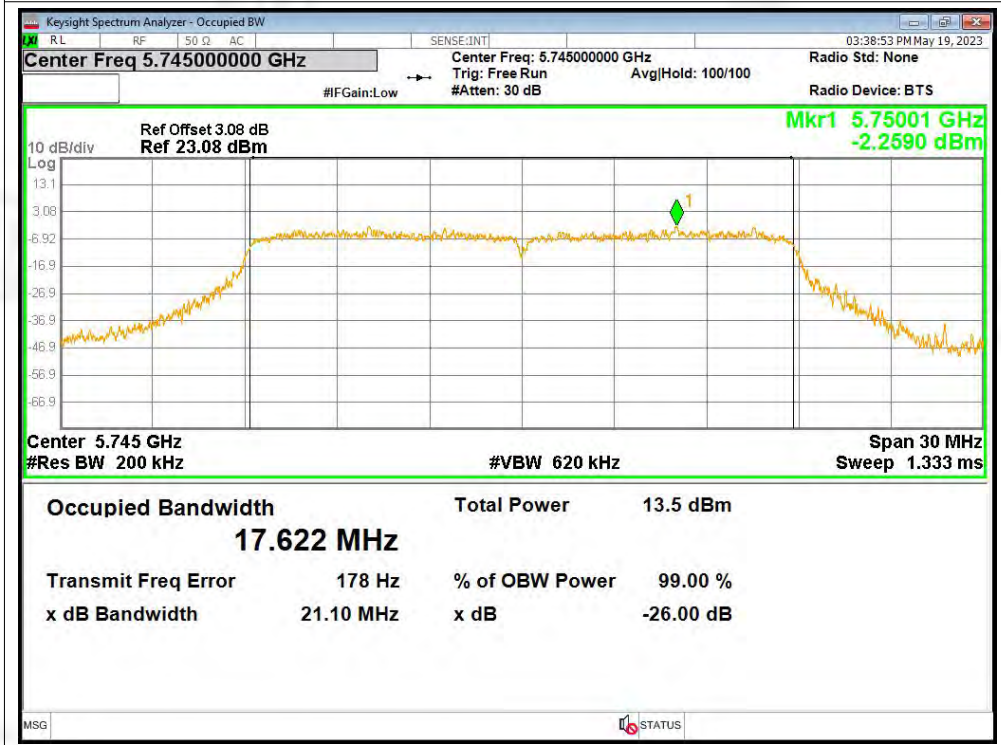


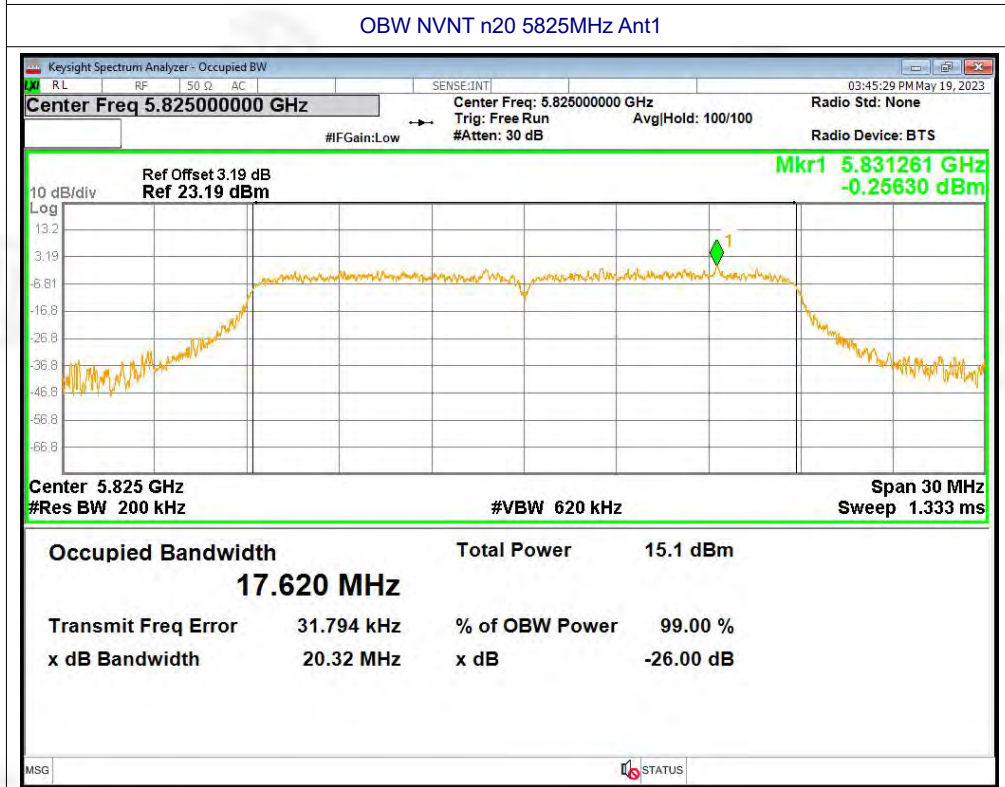
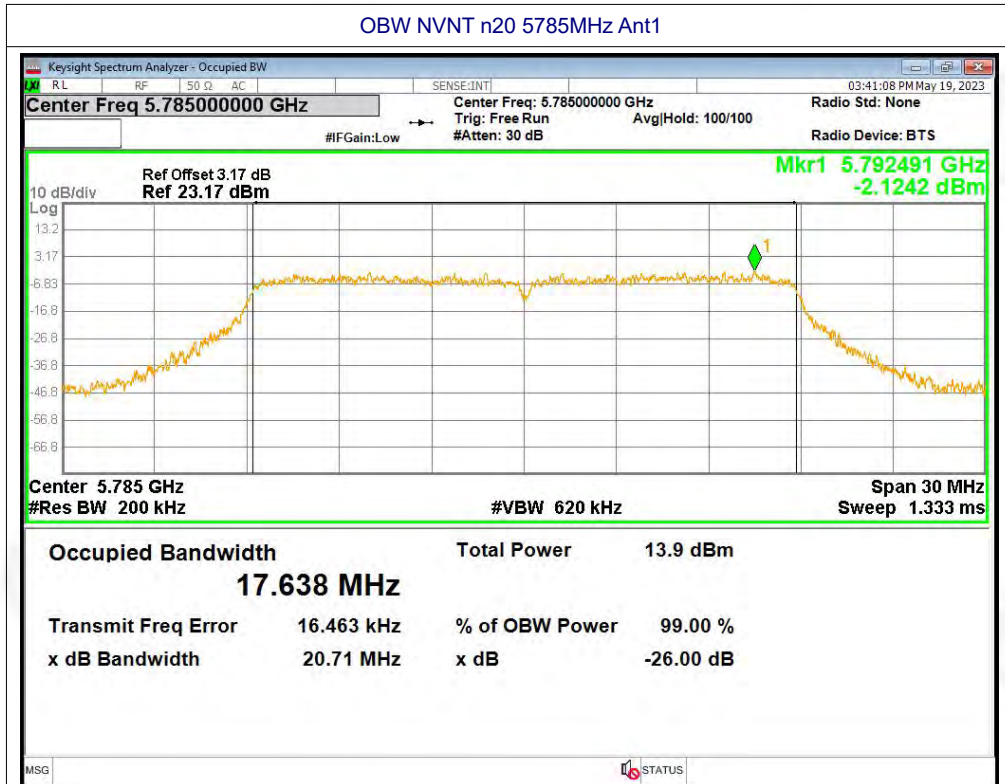


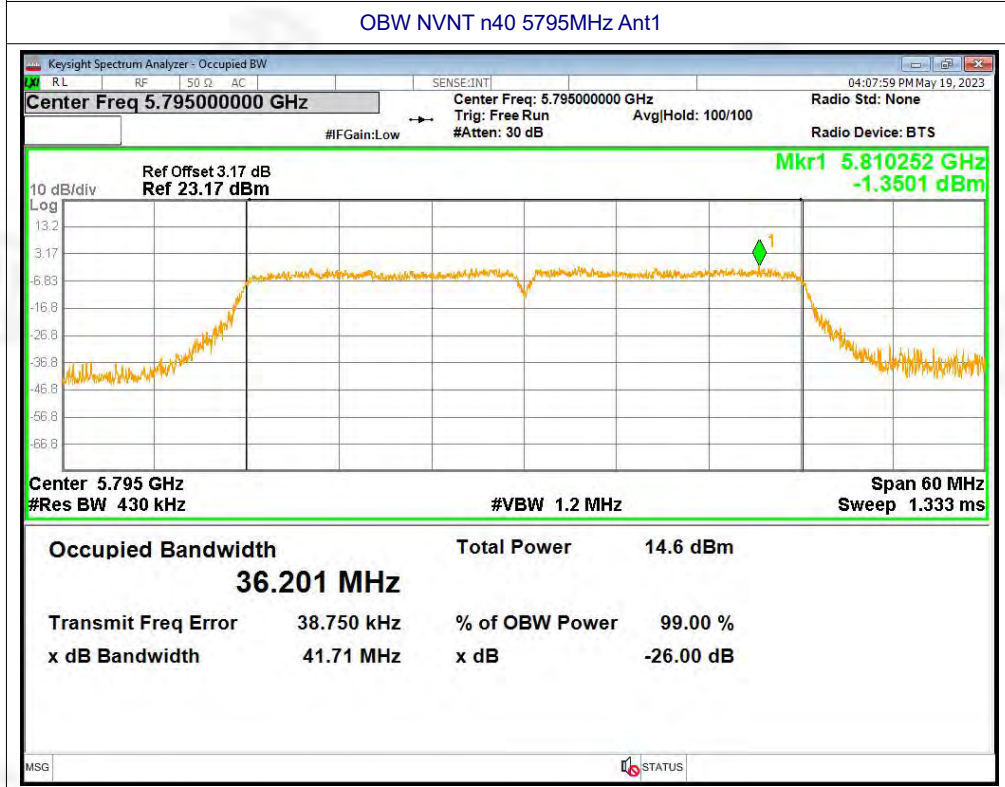
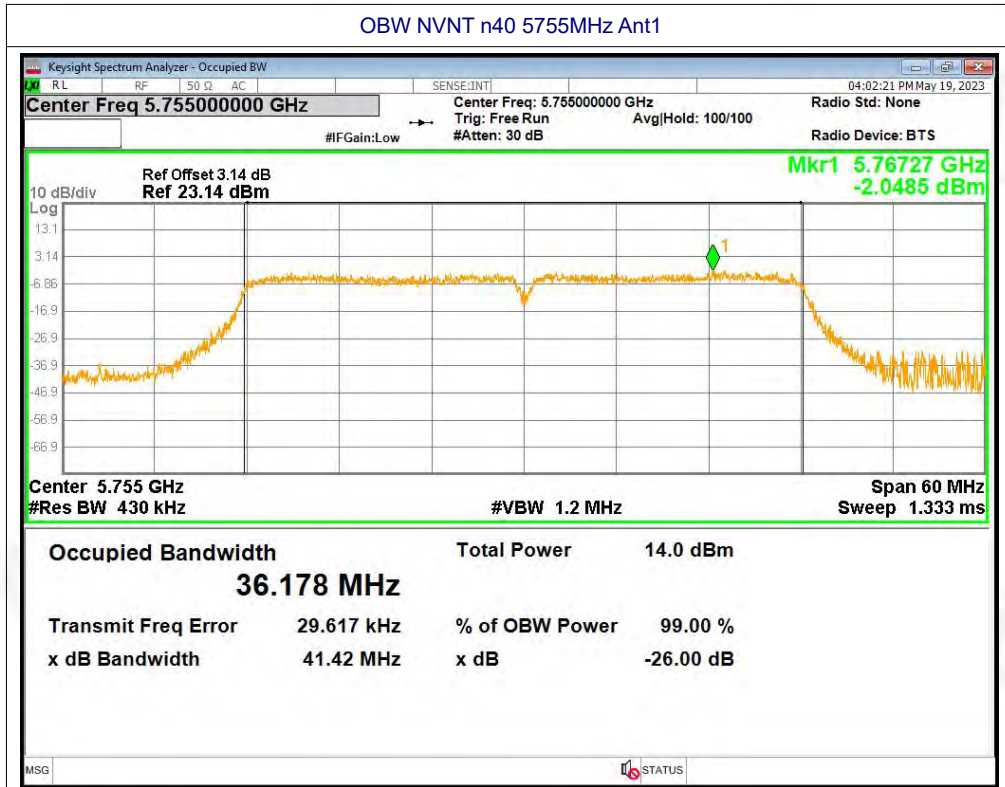
OBW NVNT a 5825MHz Ant1



OBW NVNT n20 5745MHz Ant1

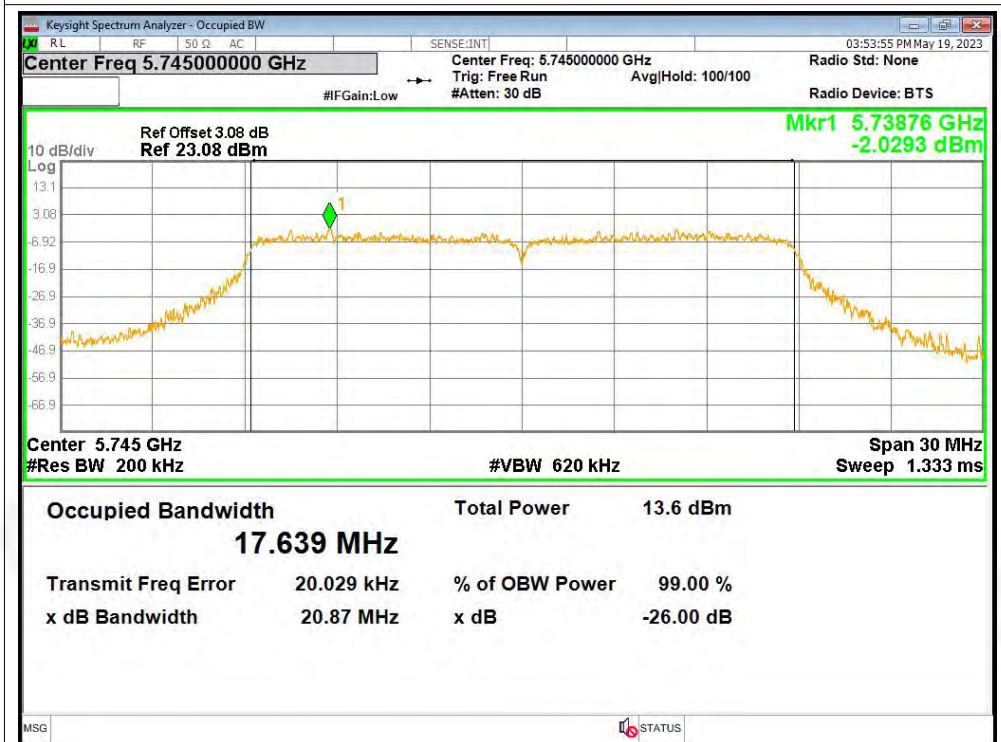




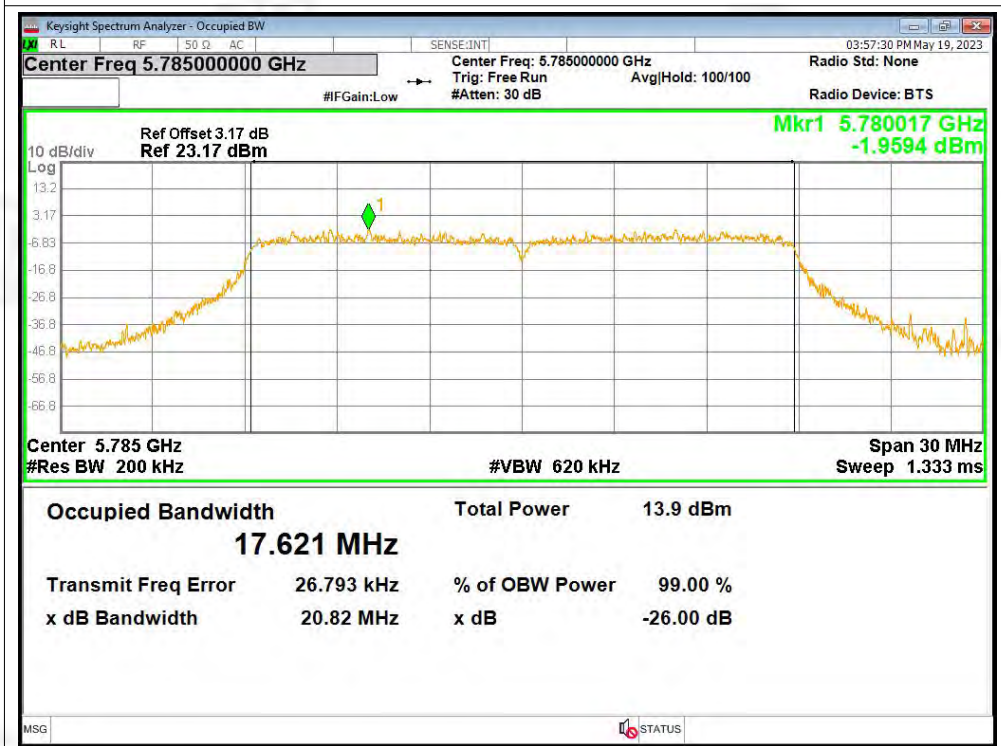




OBW NVNT ac20 5745MHz Ant1



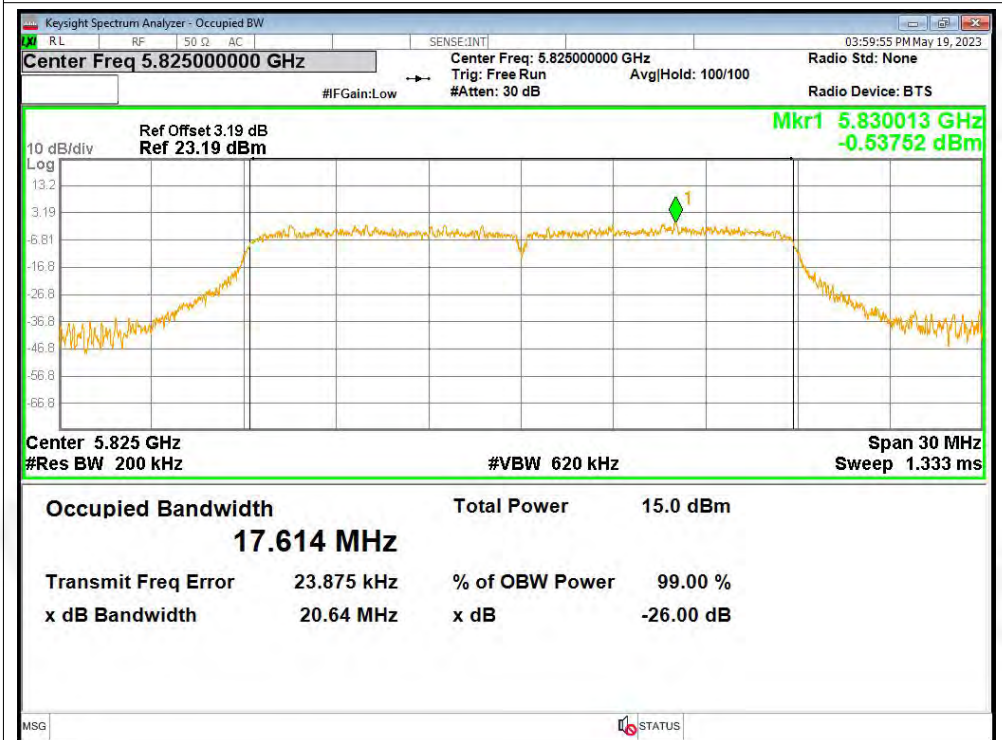
OBW NVNT ac20 5785MHz Ant1



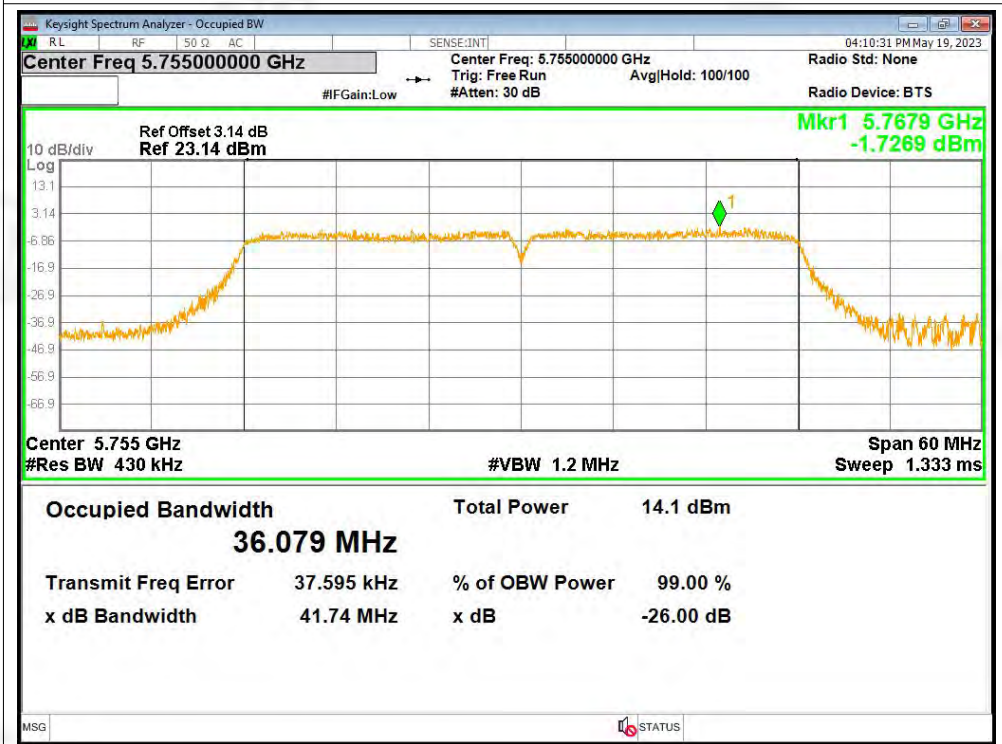




OBW NVNT ac20 5825MHz Ant1

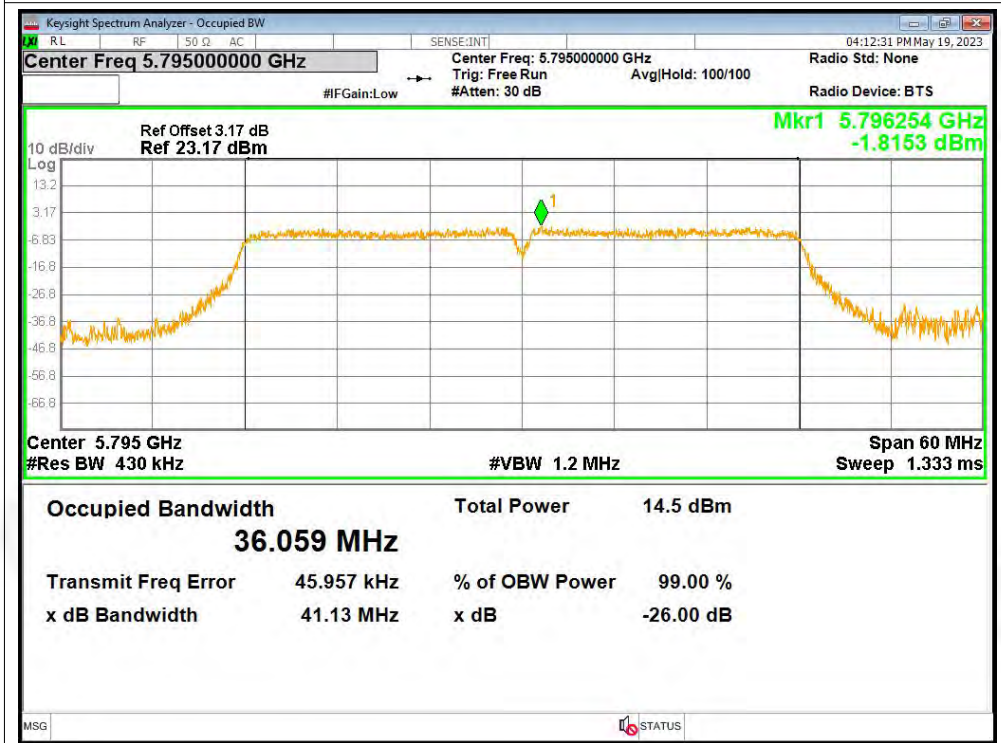


OBW NVNT ac40 5755MHz Ant1

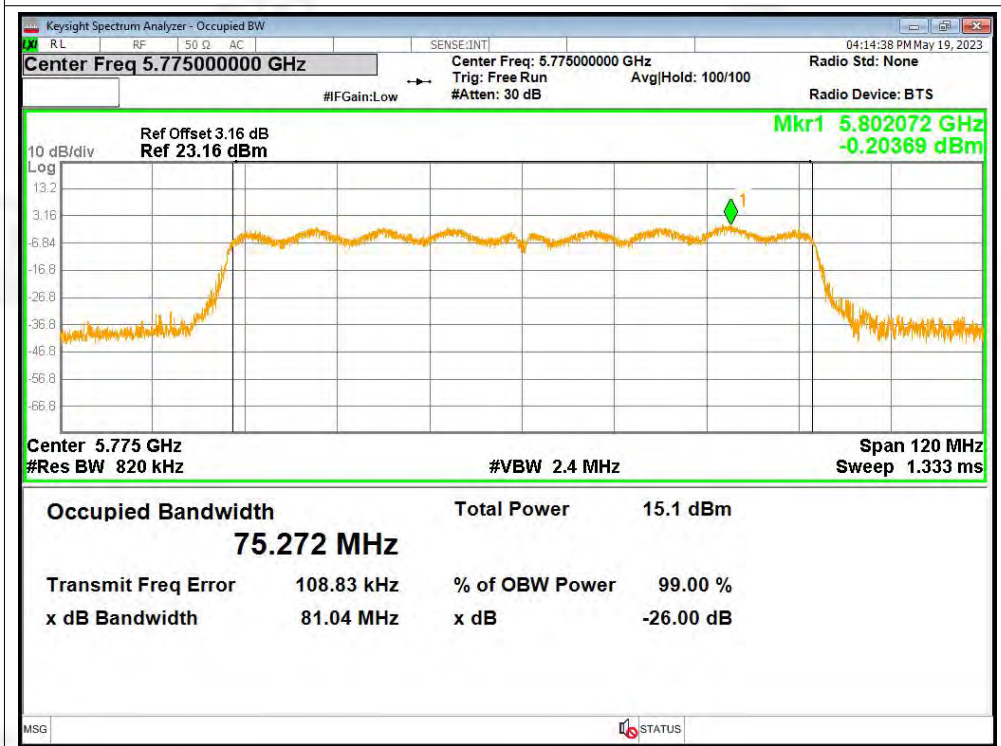




OBW NVNT ac40 5795MHz Ant1

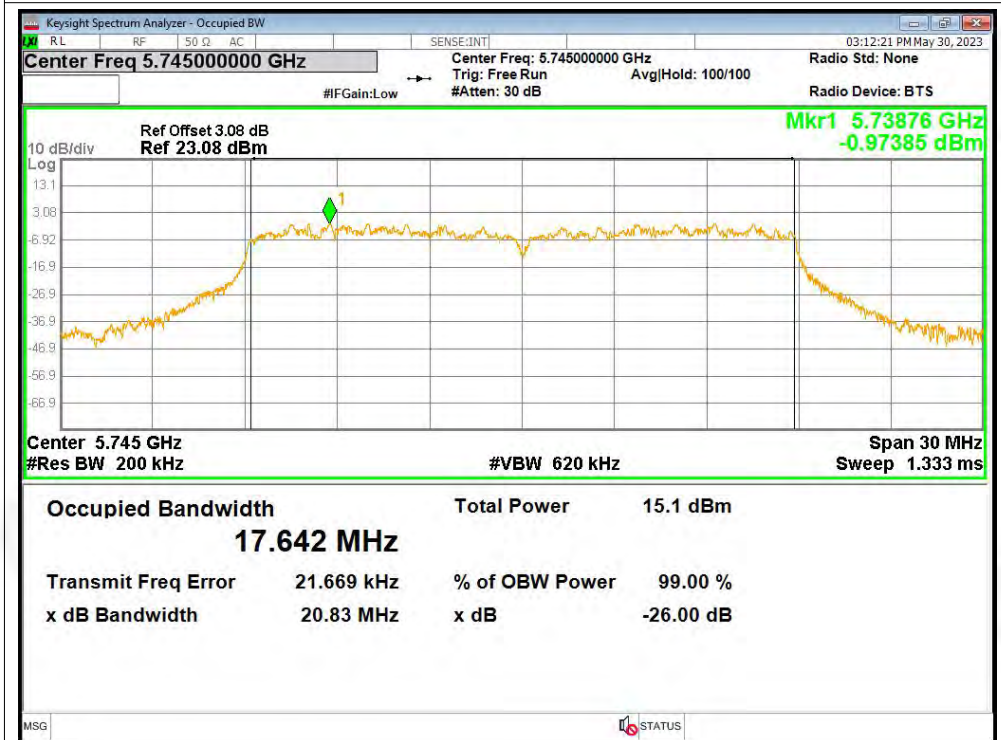


OBW NVNT ac80 5775MHz Ant1

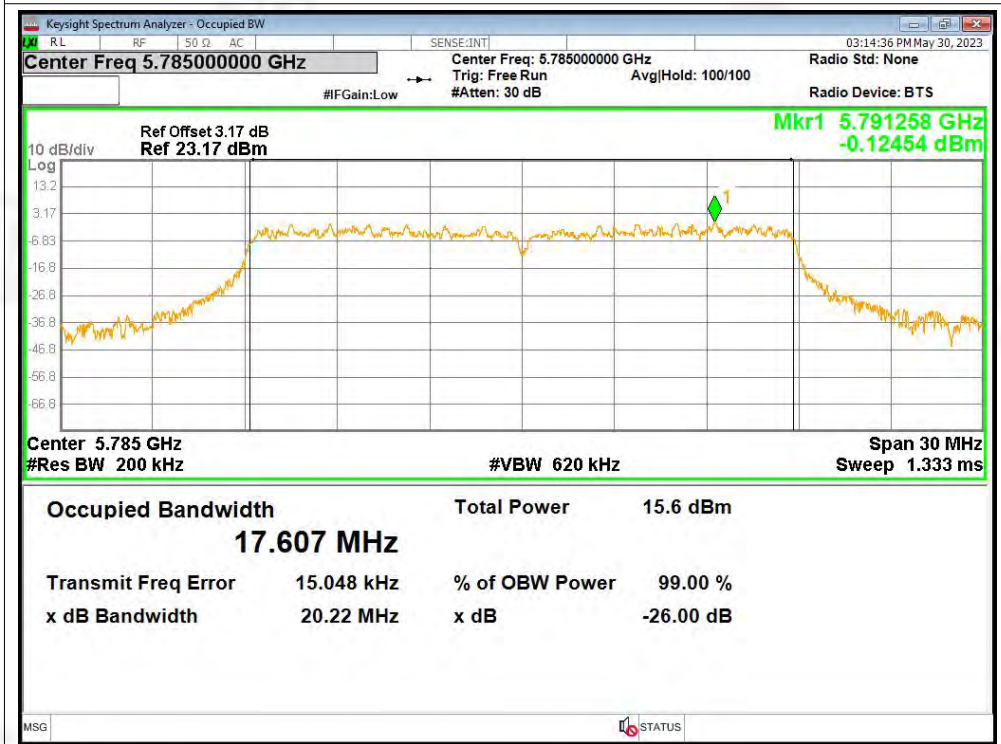




OBW NVNT ax20 5745MHz Ant1

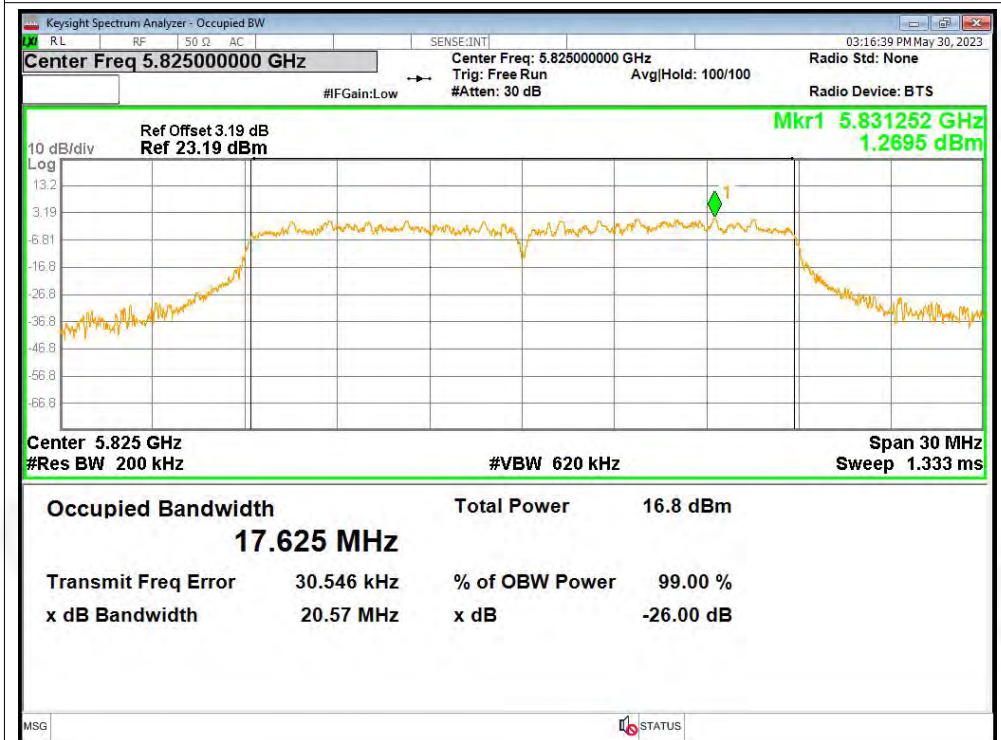


OBW NVNT ax20 5785MHz Ant1

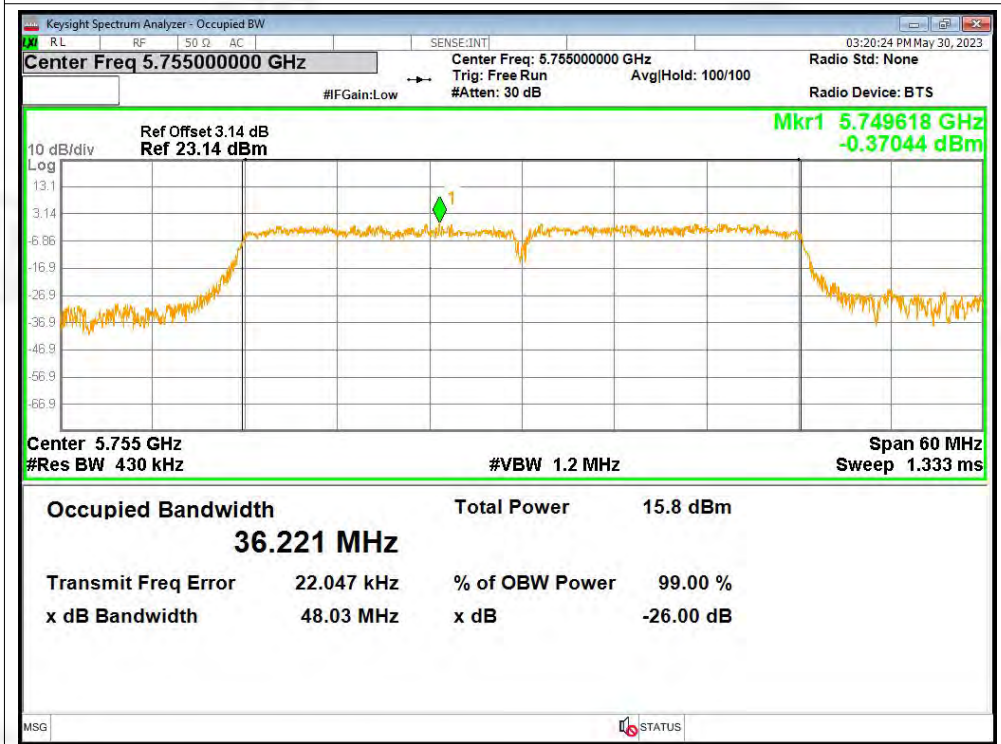




OBW NVNT ax20 5825MHz Ant1

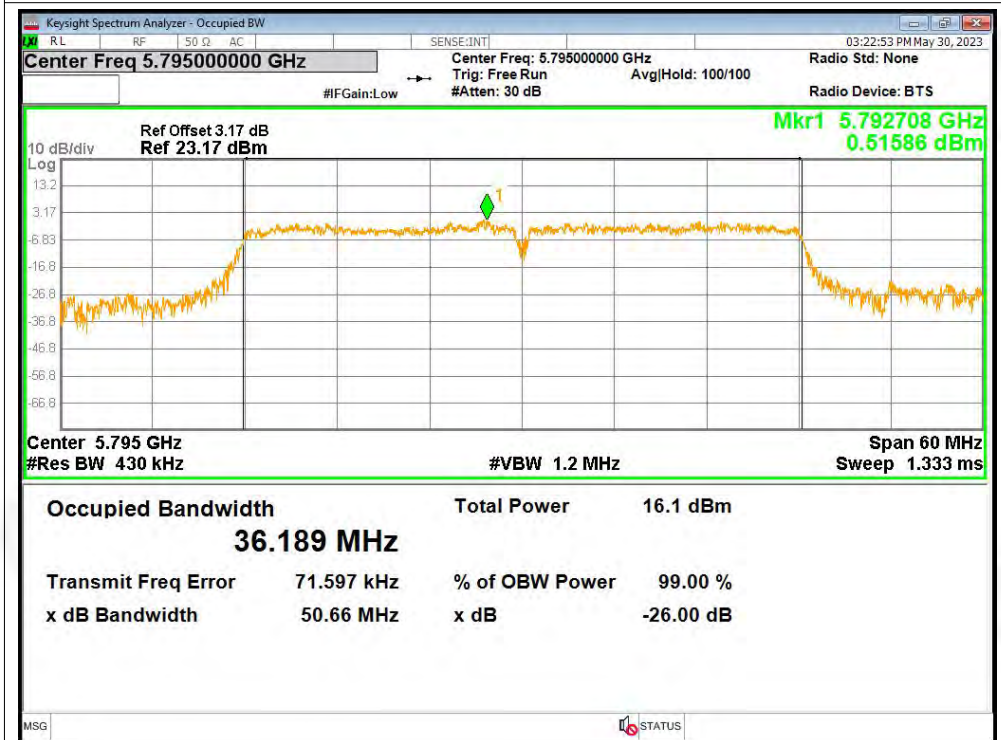


OBW NVNT ax40 5755MHz Ant1

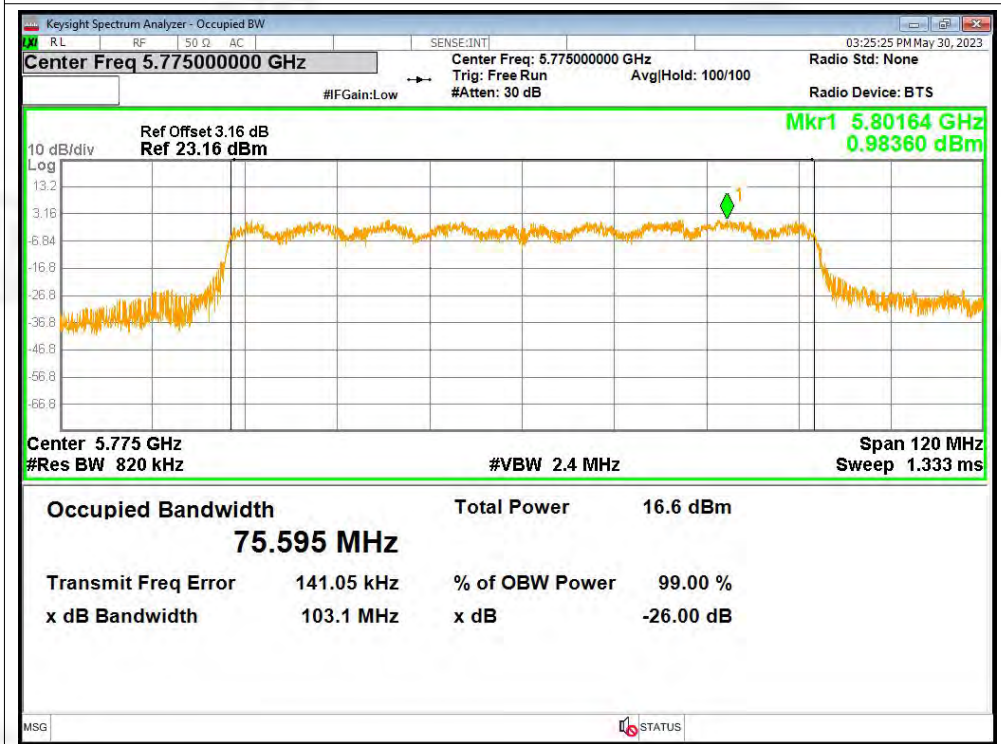




OBW NVNT ax40 5795MHz Ant1



OBW NVNT ax80 5775MHz Ant1





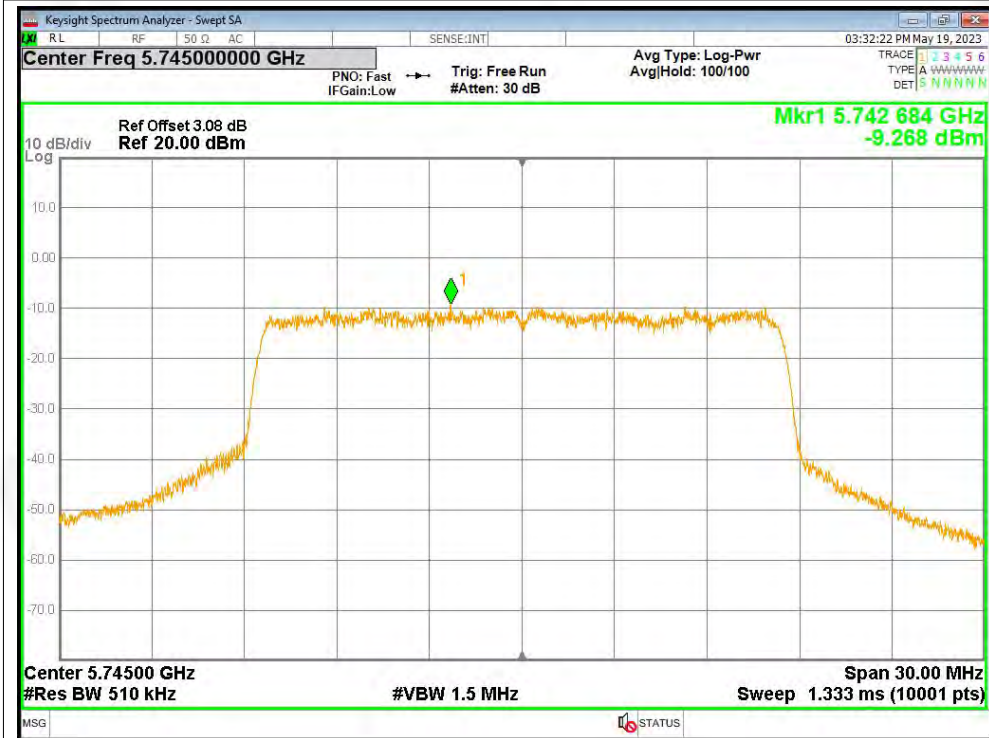
## B.5 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -9.27               | 0.31             | -8.96           | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | -8.98               | 0.24             | -8.74           | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | -7.31               | 0.13             | -7.18           | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -8.39               | 0.3              | -8.09           | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -8.51               | 0.28             | -8.23           | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -7.72               | 0.12             | -7.6            | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -13.11              | 0.33             | -12.78          | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -11.13              | 0.24             | -10.89          | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | -9.64               | 0.33             | -9.31           | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | -8.7                | 0                | -8.7            | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | -7.75               | 0.28             | -7.47           | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | -12.88              | 0.24             | -12.64          | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | -13.13              | 0.11             | -13.02          | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | -19.11              | 0.1              | -19.01          | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | -21.05              | 0.35             | -20.7           | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | -19.97              | 0.33             | -19.64          | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | -18.05              | 0.31             | -17.74          | 30          | Pass    |
| NVNT      | ax40 | 5755            | Ant1    | -32.79              | 0                | -32.79          | 30          | Pass    |
| NVNT      | ax40 | 5795            | Ant1    | -30.77              | 0.15             | -30.62          | 30          | Pass    |
| NVNT      | ax80 | 5775            | Ant1    | -42.44              | 0.13             | -42.31          | 30          | Pass    |



Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



