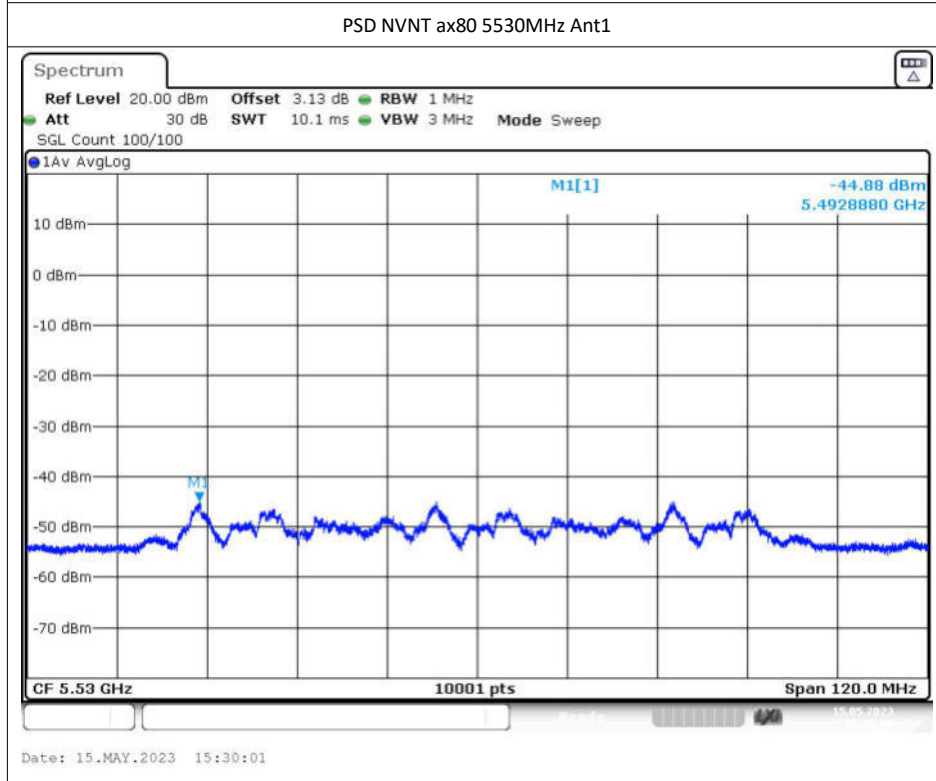
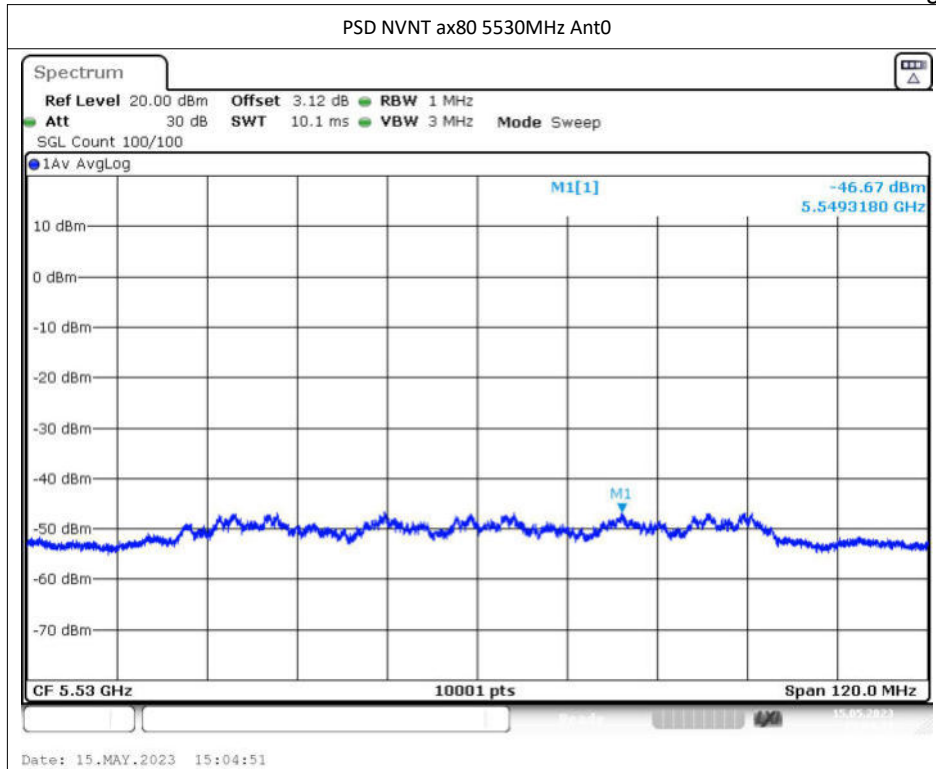
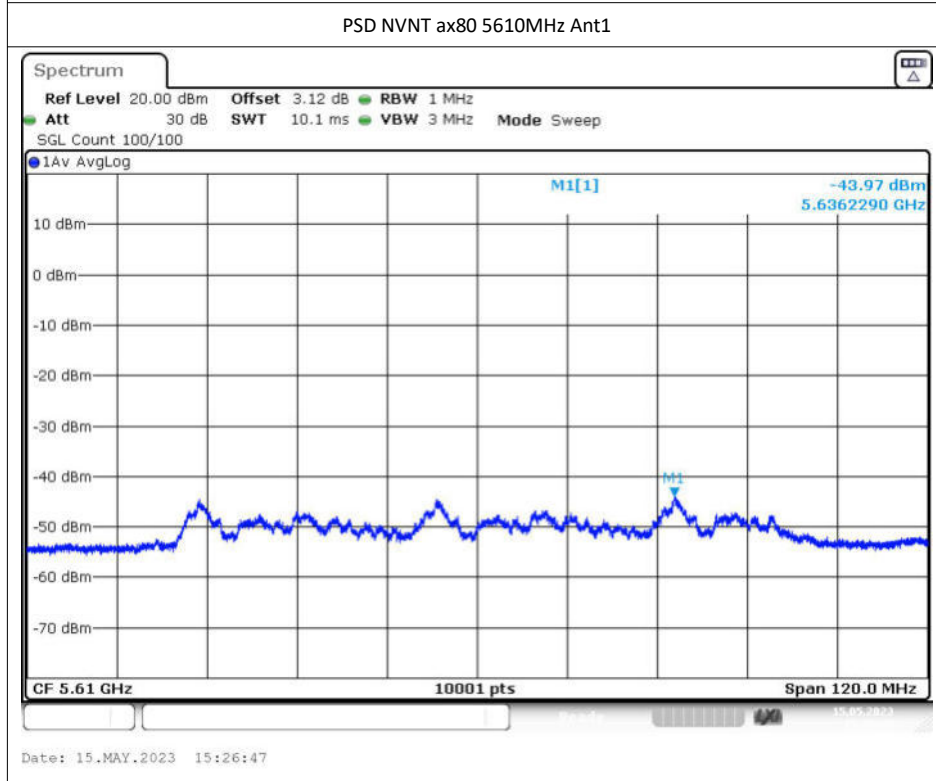
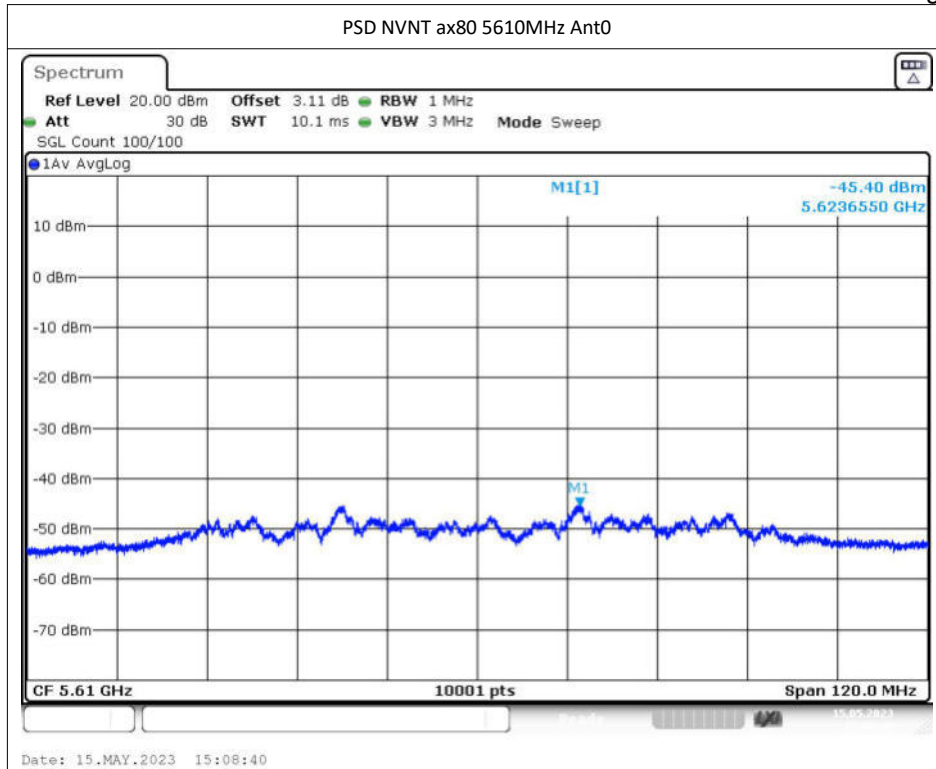
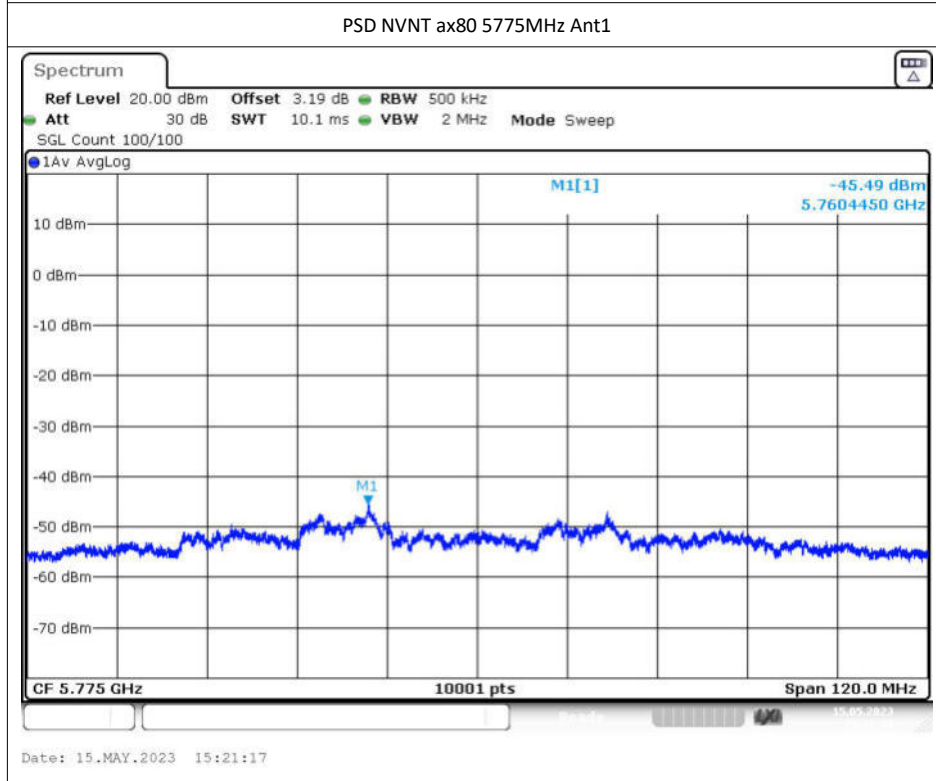
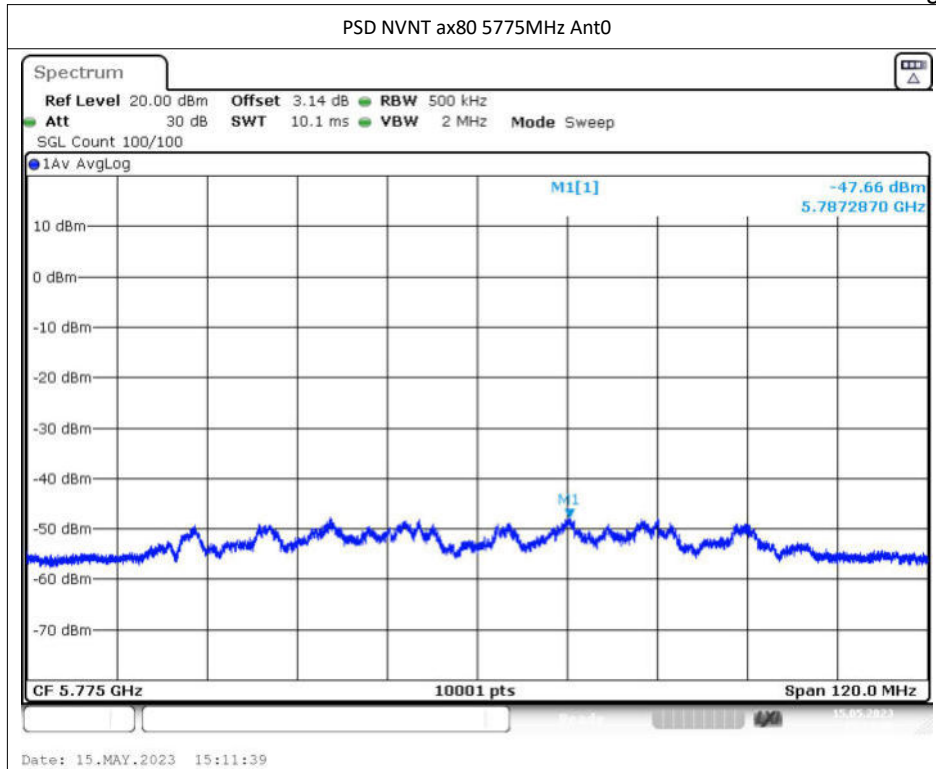








## 7.5 Frequency Stability

| Condition | Mode | Time (mins) | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-------------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 0           | 5180            | Ant0    | 5180.02                  | 20000                | 3.86            | 25          | Pass    |
| NVNT      | a    | 0           | 5200            | Ant0    | 5200.02                  | 20000                | 3.85            | 25          | Pass    |
| NVNT      | a    | 0           | 5240            | Ant0    | 5240.02                  | 20000                | 3.82            | 25          | Pass    |
| NVNT      | a    | 0           | 5260            | Ant0    | 5260.02                  | 20000                | 3.8             | 25          | Pass    |
| NVNT      | a    | 0           | 5300            | Ant0    | 5300                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 0           | 5320            | Ant0    | 5320                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 0           | 5500            | Ant0    | 5499.94                  | -60000               | -10.91          | 25          | Pass    |
| NVNT      | a    | 0           | 5600            | Ant0    | 5600.02                  | 20000                | 3.57            | 25          | Pass    |
| NVNT      | a    | 0           | 5700            | Ant0    | 5700                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 0           | 5745            | Ant0    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| NVNT      | a    | 0           | 5785            | Ant0    | 5785.02                  | 20000                | 3.46            | 25          | Pass    |
| NVNT      | a    | 0           | 5825            | Ant0    | 5824.98                  | -20000               | -3.43           | 25          | Pass    |
| NVNT      | a    | 0           | 5180            | Ant1    | 5180.02                  | 20000                | 3.86            | 25          | Pass    |
| NVNT      | a    | 0           | 5200            | Ant1    | 5200.02                  | 20000                | 3.85            | 25          | Pass    |
| NVNT      | a    | 0           | 5240            | Ant1    | 5240.02                  | 20000                | 3.82            | 25          | Pass    |
| NVNT      | a    | 0           | 5260            | Ant1    | 5260.02                  | 20000                | 3.8             | 25          | Pass    |
| NVNT      | a    | 0           | 5300            | Ant1    | 5300.02                  | 20000                | 3.77            | 25          | Pass    |
| NVNT      | a    | 0           | 5320            | Ant1    | 5319.98                  | -20000               | -3.76           | 25          | Pass    |
| NVNT      | a    | 0           | 5500            | Ant1    | 5500.04                  | 40000                | 7.27            | 25          | Pass    |
| NVNT      | a    | 0           | 5600            | Ant1    | 5599.98                  | -20000               | -3.57           | 25          | Pass    |
| NVNT      | a    | 0           | 5700            | Ant1    | 5700.02                  | 20000                | 3.51            | 25          | Pass    |
| NVNT      | a    | 0           | 5745            | Ant1    | 5745.02                  | 20000                | 3.48            | 25          | Pass    |
| NVNT      | a    | 0           | 5785            | Ant1    | 5785.08                  | 80000                | 13.83           | 25          | Pass    |
| NVNT      | a    | 0           | 5825            | Ant1    | 5824.98                  | -20000               | -3.43           | 25          | Pass    |
| NVNT      | n20  | 0           | 5180            | Ant0    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| NVNT      | n20  | 0           | 5200            | Ant0    | 5200.02                  | 20000                | 3.85            | 25          | Pass    |
| NVNT      | n20  | 0           | 5240            | Ant0    | 5240.04                  | 40000                | 7.63            | 25          | Pass    |
| NVNT      | n20  | 0           | 5260            | Ant0    | 5260                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 0           | 5300            | Ant0    | 5300.02                  | 20000                | 3.77            | 25          | Pass    |
| NVNT      | n20  | 0           | 5320            | Ant0    | 5320                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 0           | 5500            | Ant0    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| NVNT      | n20  | 0           | 5600            | Ant0    | 5600                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 0           | 5700            | Ant0    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| NVNT      | n20  | 0           | 5745            | Ant0    | 5745                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 0           | 5785            | Ant0    | 5785.02                  | 20000                | 3.46            | 25          | Pass    |
| NVNT      | n20  | 0           | 5825            | Ant0    | 5825.02                  | 20000                | 3.43            | 25          | Pass    |
| NVNT      | n20  | 0           | 5180            | Ant1    | 5180                     | 0                    | 0               | 25          | Pass    |



|      |      |   |      |      |         |        |        |    |      |
|------|------|---|------|------|---------|--------|--------|----|------|
| NVNT | n20  | 0 | 5200 | Ant1 | 5200    | 0      | 0      | 25 | Pass |
| NVNT | n20  | 0 | 5240 | Ant1 | 5240    | 0      | 0      | 25 | Pass |
| NVNT | n20  | 0 | 5260 | Ant1 | 5260.04 | 40000  | 7.6    | 25 | Pass |
| NVNT | n20  | 0 | 5300 | Ant1 | 5300.02 | 20000  | 3.77   | 25 | Pass |
| NVNT | n20  | 0 | 5320 | Ant1 | 5320    | 0      | 0      | 25 | Pass |
| NVNT | n20  | 0 | 5500 | Ant1 | 5500.02 | 20000  | 3.64   | 25 | Pass |
| NVNT | n20  | 0 | 5600 | Ant1 | 5600    | 0      | 0      | 25 | Pass |
| NVNT | n20  | 0 | 5700 | Ant1 | 5700    | 0      | 0      | 25 | Pass |
| NVNT | n20  | 0 | 5745 | Ant1 | 5744.98 | -20000 | -3.48  | 25 | Pass |
| NVNT | n20  | 0 | 5785 | Ant1 | 5784.98 | -20000 | -3.46  | 25 | Pass |
| NVNT | n20  | 0 | 5825 | Ant1 | 5825.04 | 40000  | 6.87   | 25 | Pass |
| NVNT | n40  | 0 | 5190 | Ant0 | 5190    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5230 | Ant0 | 5230.04 | 40000  | 7.65   | 25 | Pass |
| NVNT | n40  | 0 | 5270 | Ant0 | 5270.04 | 40000  | 7.59   | 25 | Pass |
| NVNT | n40  | 0 | 5310 | Ant0 | 5310.04 | 40000  | 7.53   | 25 | Pass |
| NVNT | n40  | 0 | 5510 | Ant0 | 5510    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5590 | Ant0 | 5590.04 | 40000  | 7.16   | 25 | Pass |
| NVNT | n40  | 0 | 5670 | Ant0 | 5670.04 | 40000  | 7.05   | 25 | Pass |
| NVNT | n40  | 0 | 5755 | Ant0 | 5755    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5795 | Ant0 | 5795.04 | 40000  | 6.9    | 25 | Pass |
| NVNT | n40  | 0 | 5190 | Ant1 | 5190.04 | 40000  | 7.71   | 25 | Pass |
| NVNT | n40  | 0 | 5230 | Ant1 | 5230    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5270 | Ant1 | 5270.04 | 40000  | 7.59   | 25 | Pass |
| NVNT | n40  | 0 | 5310 | Ant1 | 5310.04 | 40000  | 7.53   | 25 | Pass |
| NVNT | n40  | 0 | 5510 | Ant1 | 5510    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5590 | Ant1 | 5590    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5670 | Ant1 | 5670    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5755 | Ant1 | 5755    | 0      | 0      | 25 | Pass |
| NVNT | n40  | 0 | 5795 | Ant1 | 5795    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5180 | Ant0 | 5180    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5200 | Ant0 | 5200    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5240 | Ant0 | 5240.02 | 20000  | 3.82   | 25 | Pass |
| NVNT | ac20 | 0 | 5260 | Ant0 | 5260.02 | 20000  | 3.8    | 25 | Pass |
| NVNT | ac20 | 0 | 5300 | Ant0 | 5299.98 | -20000 | -3.77  | 25 | Pass |
| NVNT | ac20 | 0 | 5320 | Ant0 | 5320    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5500 | Ant0 | 5500.02 | 20000  | 3.64   | 25 | Pass |
| NVNT | ac20 | 0 | 5600 | Ant0 | 5600    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5700 | Ant0 | 5700    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5745 | Ant0 | 5744.94 | -60000 | -10.44 | 25 | Pass |
| NVNT | ac20 | 0 | 5785 | Ant0 | 5785    | 0      | 0      | 25 | Pass |
| NVNT | ac20 | 0 | 5825 | Ant0 | 5825.14 | 140000 | 24.03  | 25 | Pass |



|      |      |   |      |      |         |        |       |    |      |
|------|------|---|------|------|---------|--------|-------|----|------|
| NVNT | ac20 | 0 | 5180 | Ant1 | 5180.02 | 20000  | 3.86  | 25 | Pass |
| NVNT | ac20 | 0 | 5200 | Ant1 | 5200    | 0      | 0     | 25 | Pass |
| NVNT | ac20 | 0 | 5240 | Ant1 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| NVNT | ac20 | 0 | 5260 | Ant1 | 5259.98 | -20000 | -3.8  | 25 | Pass |
| NVNT | ac20 | 0 | 5300 | Ant1 | 5300.02 | 20000  | 3.77  | 25 | Pass |
| NVNT | ac20 | 0 | 5320 | Ant1 | 5319.98 | -20000 | -3.76 | 25 | Pass |
| NVNT | ac20 | 0 | 5500 | Ant1 | 5500    | 0      | 0     | 25 | Pass |
| NVNT | ac20 | 0 | 5600 | Ant1 | 5600    | 0      | 0     | 25 | Pass |
| NVNT | ac20 | 0 | 5700 | Ant1 | 5700    | 0      | 0     | 25 | Pass |
| NVNT | ac20 | 0 | 5745 | Ant1 | 5745    | 0      | 0     | 25 | Pass |
| NVNT | ac20 | 0 | 5785 | Ant1 | 5785.02 | 20000  | 3.46  | 25 | Pass |
| NVNT | ac20 | 0 | 5825 | Ant1 | 5825.02 | 20000  | 3.43  | 25 | Pass |
| NVNT | ac40 | 0 | 5190 | Ant0 | 5190    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5230 | Ant0 | 5230    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5270 | Ant0 | 5270    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5310 | Ant0 | 5310    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5510 | Ant0 | 5510    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5590 | Ant0 | 5590    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5670 | Ant0 | 5670    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5755 | Ant0 | 5755    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5795 | Ant0 | 5795    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5190 | Ant1 | 5190    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5230 | Ant1 | 5230    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5270 | Ant1 | 5270    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5310 | Ant1 | 5310.04 | 40000  | 7.53  | 25 | Pass |
| NVNT | ac40 | 0 | 5510 | Ant1 | 5510    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5590 | Ant1 | 5590    | 0      | 0     | 25 | Pass |
| NVNT | ac40 | 0 | 5670 | Ant1 | 5670.04 | 40000  | 7.05  | 25 | Pass |
| NVNT | ac40 | 0 | 5755 | Ant1 | 5755.04 | 40000  | 6.95  | 25 | Pass |
| NVNT | ac40 | 0 | 5795 | Ant1 | 5795    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5210 | Ant0 | 5210    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5290 | Ant0 | 5290    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5530 | Ant0 | 5530    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5610 | Ant0 | 5610    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5775 | Ant0 | 5775    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5210 | Ant1 | 5210    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5290 | Ant1 | 5290    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5530 | Ant1 | 5530    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5610 | Ant1 | 5610    | 0      | 0     | 25 | Pass |
| NVNT | ac80 | 0 | 5775 | Ant1 | 5775    | 0      | 0     | 25 | Pass |
| NVNT | ax20 | 0 | 5180 | Ant0 | 5179.98 | -20000 | -3.86 | 25 | Pass |



|      |      |   |      |      |         |        |        |    |      |
|------|------|---|------|------|---------|--------|--------|----|------|
| NVNT | ax20 | 0 | 5200 | Ant0 | 5199.96 | -40000 | -7.69  | 25 | Pass |
| NVNT | ax20 | 0 | 5240 | Ant0 | 5239.98 | -20000 | -3.82  | 25 | Pass |
| NVNT | ax20 | 0 | 5260 | Ant0 | 5259.96 | -40000 | -7.6   | 25 | Pass |
| NVNT | ax20 | 0 | 5300 | Ant0 | 5299.96 | -40000 | -7.55  | 25 | Pass |
| NVNT | ax20 | 0 | 5320 | Ant0 | 5319.96 | -40000 | -7.52  | 25 | Pass |
| NVNT | ax20 | 0 | 5500 | Ant0 | 5499.98 | -20000 | -3.64  | 25 | Pass |
| NVNT | ax20 | 0 | 5600 | Ant0 | 5599.96 | -40000 | -7.14  | 25 | Pass |
| NVNT | ax20 | 0 | 5700 | Ant0 | 5699.98 | -20000 | -3.51  | 25 | Pass |
| NVNT | ax20 | 0 | 5745 | Ant0 | 5744.96 | -40000 | -6.96  | 25 | Pass |
| NVNT | ax20 | 0 | 5785 | Ant0 | 5784.98 | -20000 | -3.46  | 25 | Pass |
| NVNT | ax20 | 0 | 5825 | Ant0 | 5824.98 | -20000 | -3.43  | 25 | Pass |
| NVNT | ax20 | 0 | 5180 | Ant1 | 5179.96 | -40000 | -7.72  | 25 | Pass |
| NVNT | ax20 | 0 | 5200 | Ant1 | 5199.96 | -40000 | -7.69  | 25 | Pass |
| NVNT | ax20 | 0 | 5240 | Ant1 | 5239.98 | -20000 | -3.82  | 25 | Pass |
| NVNT | ax20 | 0 | 5260 | Ant1 | 5259.98 | -20000 | -3.8   | 25 | Pass |
| NVNT | ax20 | 0 | 5300 | Ant1 | 5299.96 | -40000 | -7.55  | 25 | Pass |
| NVNT | ax20 | 0 | 5320 | Ant1 | 5319.98 | -20000 | -3.76  | 25 | Pass |
| NVNT | ax20 | 0 | 5500 | Ant1 | 5499.98 | -20000 | -3.64  | 25 | Pass |
| NVNT | ax20 | 0 | 5600 | Ant1 | 5599.96 | -40000 | -7.14  | 25 | Pass |
| NVNT | ax20 | 0 | 5700 | Ant1 | 5699.96 | -40000 | -7.02  | 25 | Pass |
| NVNT | ax20 | 0 | 5745 | Ant1 | 5744.98 | -20000 | -3.48  | 25 | Pass |
| NVNT | ax20 | 0 | 5785 | Ant1 | 5784.98 | -20000 | -3.46  | 25 | Pass |
| NVNT | ax20 | 0 | 5825 | Ant1 | 5824.96 | -40000 | -6.87  | 25 | Pass |
| NVNT | ax40 | 0 | 5190 | Ant0 | 5189.96 | -40000 | -7.71  | 25 | Pass |
| NVNT | ax40 | 0 | 5230 | Ant0 | 5229.96 | -40000 | -7.65  | 25 | Pass |
| NVNT | ax40 | 0 | 5270 | Ant0 | 5270    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5310 | Ant0 | 5309.92 | -80000 | -15.07 | 25 | Pass |
| NVNT | ax40 | 0 | 5510 | Ant0 | 5510    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5590 | Ant0 | 5590    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5670 | Ant0 | 5670    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5755 | Ant0 | 5755    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5795 | Ant0 | 5795    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5190 | Ant1 | 5190    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5230 | Ant1 | 5230    | 0      | 0      | 25 | Pass |
| NVNT | ax40 | 0 | 5270 | Ant1 | 5269.96 | -40000 | -7.59  | 25 | Pass |
| NVNT | ax40 | 0 | 5310 | Ant1 | 5309.96 | -40000 | -7.53  | 25 | Pass |
| NVNT | ax40 | 0 | 5510 | Ant1 | 5509.96 | -40000 | -7.26  | 25 | Pass |
| NVNT | ax40 | 0 | 5590 | Ant1 | 5589.96 | -40000 | -7.16  | 25 | Pass |
| NVNT | ax40 | 0 | 5670 | Ant1 | 5669.96 | -40000 | -7.05  | 25 | Pass |
| NVNT | ax40 | 0 | 5755 | Ant1 | 5754.96 | -40000 | -6.95  | 25 | Pass |
| NVNT | ax40 | 0 | 5795 | Ant1 | 5794.92 | -80000 | -13.81 | 25 | Pass |

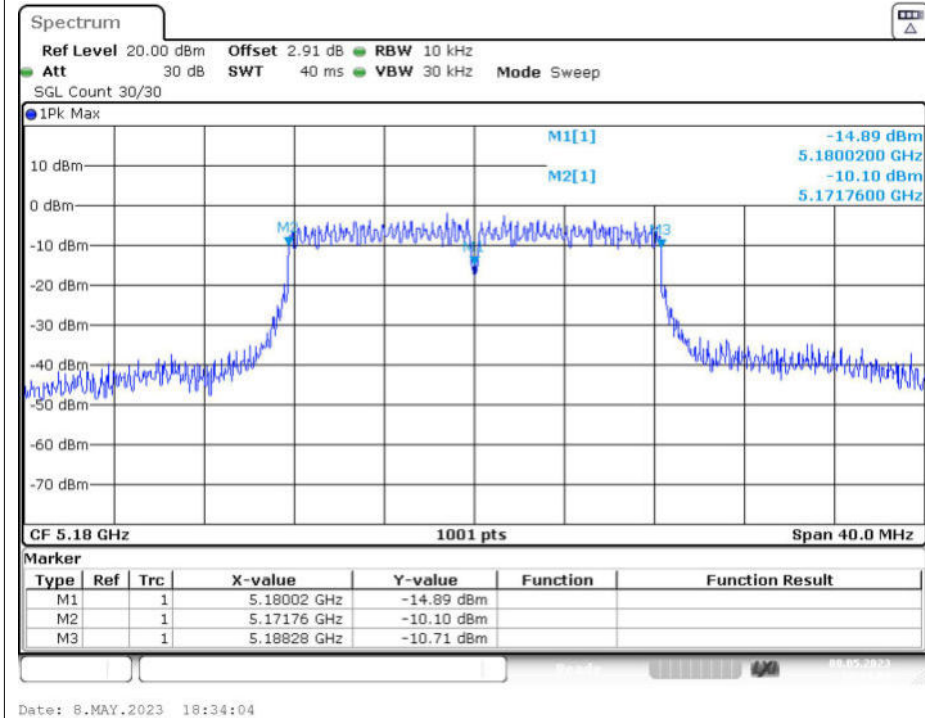


|      |      |   |      |      |         |        |        |    |      |
|------|------|---|------|------|---------|--------|--------|----|------|
| NVNT | ax80 | 0 | 5210 | Ant0 | 5209.92 | -80000 | -15.36 | 25 | Pass |
| NVNT | ax80 | 0 | 5290 | Ant0 | 5289.92 | -80000 | -15.12 | 25 | Pass |
| NVNT | ax80 | 0 | 5530 | Ant0 | 5530    | 0      | 0      | 25 | Pass |
| NVNT | ax80 | 0 | 5610 | Ant0 | 5610    | 0      | 0      | 25 | Pass |
| NVNT | ax80 | 0 | 5775 | Ant0 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| NVNT | ax80 | 0 | 5210 | Ant1 | 5210    | 0      | 0      | 25 | Pass |
| NVNT | ax80 | 0 | 5290 | Ant1 | 5289.92 | -80000 | -15.12 | 25 | Pass |
| NVNT | ax80 | 0 | 5530 | Ant1 | 5529.92 | -80000 | -14.47 | 25 | Pass |
| NVNT | ax80 | 0 | 5610 | Ant1 | 5609.92 | -80000 | -14.26 | 25 | Pass |
| NVNT | ax80 | 0 | 5775 | Ant1 | 5775    | 0      | 0      | 25 | Pass |



## Test Graphs

Freq. Stability NVNT a 5180MHz Ant0 0 Minutes



Freq. Stability NVNT a 5180MHz Ant1 0 Minutes

