

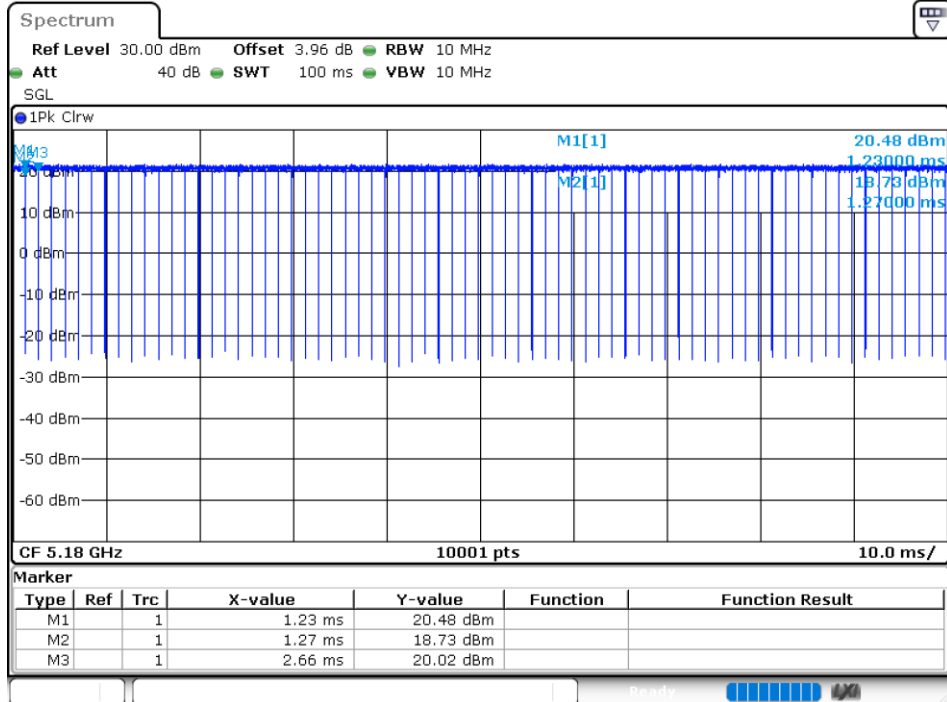
## 5.2G WIFI

### Duty Cycle

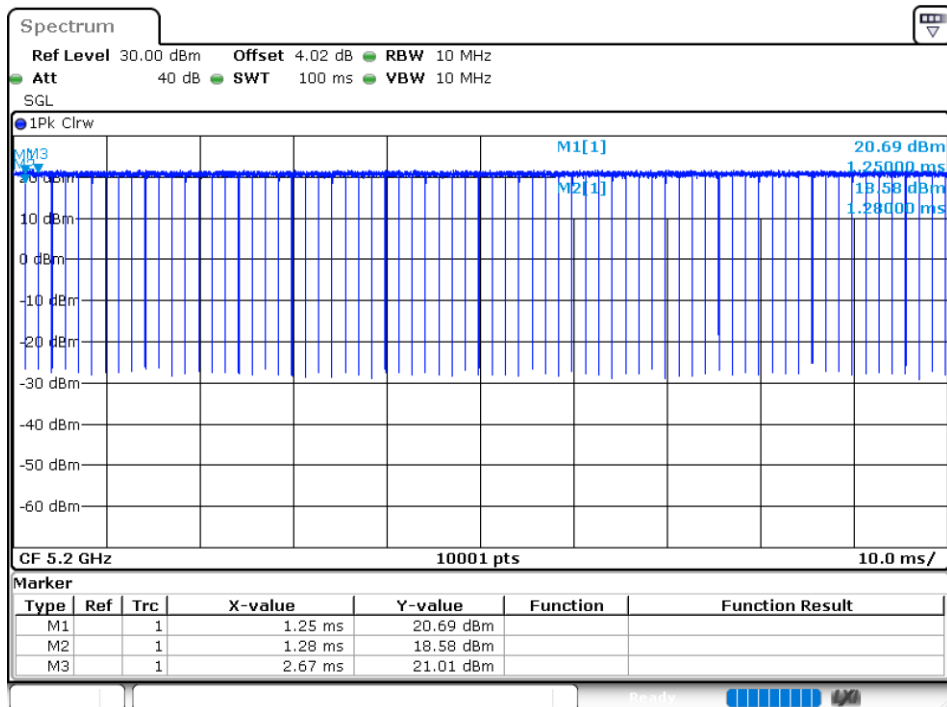
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant1    | 98.2           | 0.08                   | 0.72      |
| NVNT      | a    | 5200            | Ant1    | 98.15          | 0.08                   | 0.72      |
| NVNT      | a    | 5240            | Ant1    | 98.2           | 0.08                   | 0.72      |
| NVNT      | n20  | 5180            | Ant1    | 98.06          | 0.09                   | 0.77      |
| NVNT      | n20  | 5200            | Ant1    | 98.05          | 0.09                   | 0.77      |
| NVNT      | n20  | 5240            | Ant1    | 98.07          | 0.08                   | 0.77      |
| NVNT      | n40  | 5190            | Ant1    | 95.3           | 0.21                   | 1.54      |
| NVNT      | n40  | 5230            | Ant1    | 94.55          | 0.24                   | 1.56      |
| NVNT      | ac20 | 5180            | Ant1    | 98.09          | 0.08                   | 0.76      |
| NVNT      | ac20 | 5200            | Ant1    | 98.04          | 0.09                   | 0.76      |
| NVNT      | ac20 | 5240            | Ant1    | 98.06          | 0.09                   | 0.76      |
| NVNT      | ac40 | 5190            | Ant1    | 95.19          | 0.21                   | 1.54      |
| NVNT      | ac40 | 5230            | Ant1    | 95.31          | 0.21                   | 1.54      |
| NVNT      | ac80 | 5210            | Ant1    | 85.79          | 0.67                   | 3.13      |

## Test Graphs

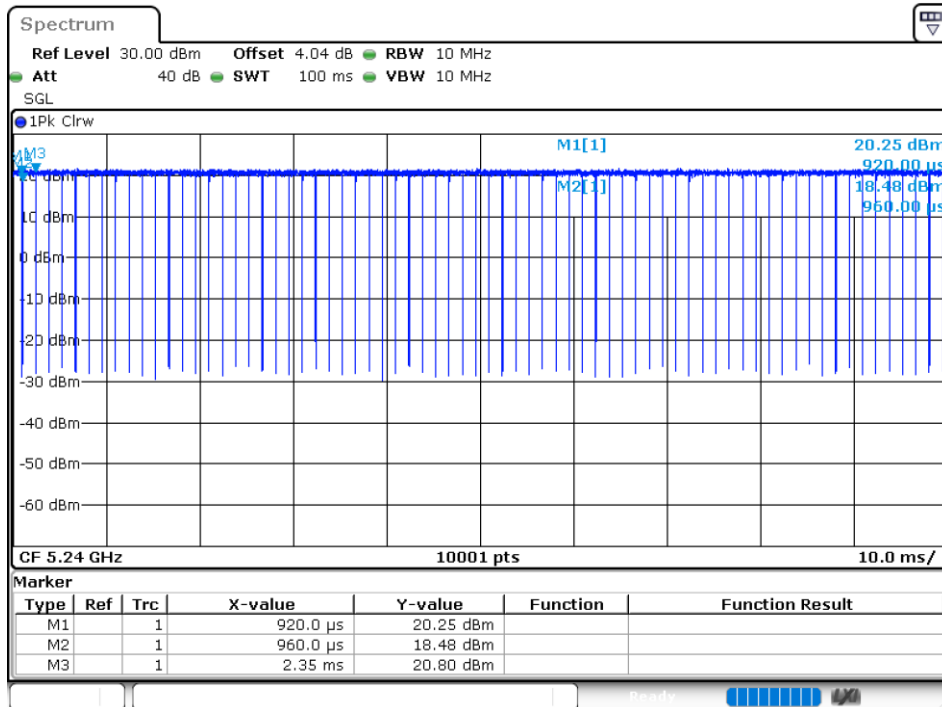
### Duty Cycle NVNT a 5180MHz Ant1



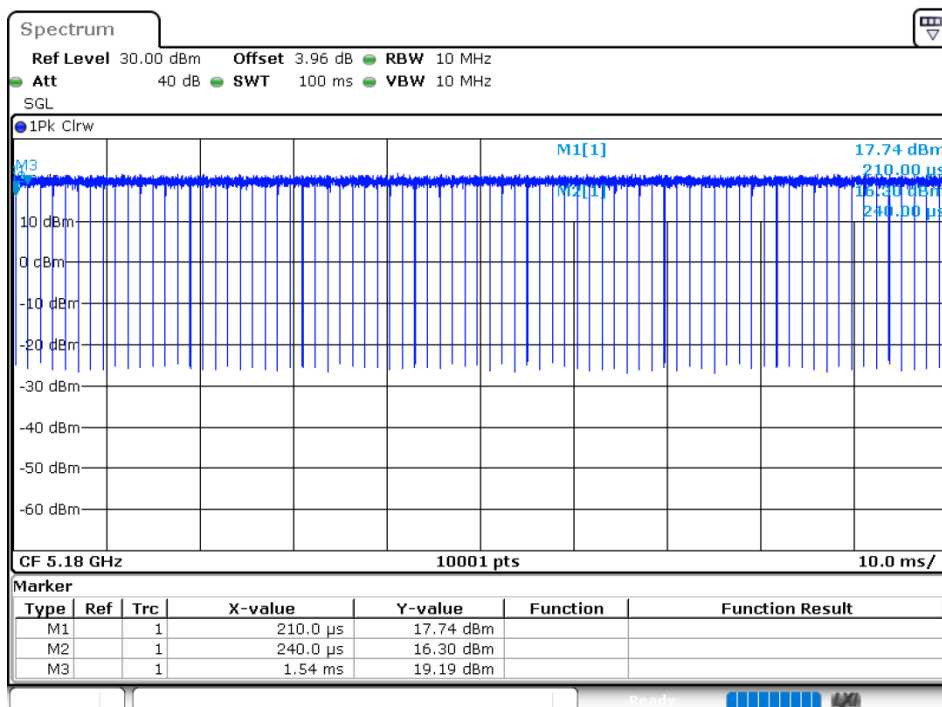
### Duty Cycle NVNT a 5200MHz Ant1



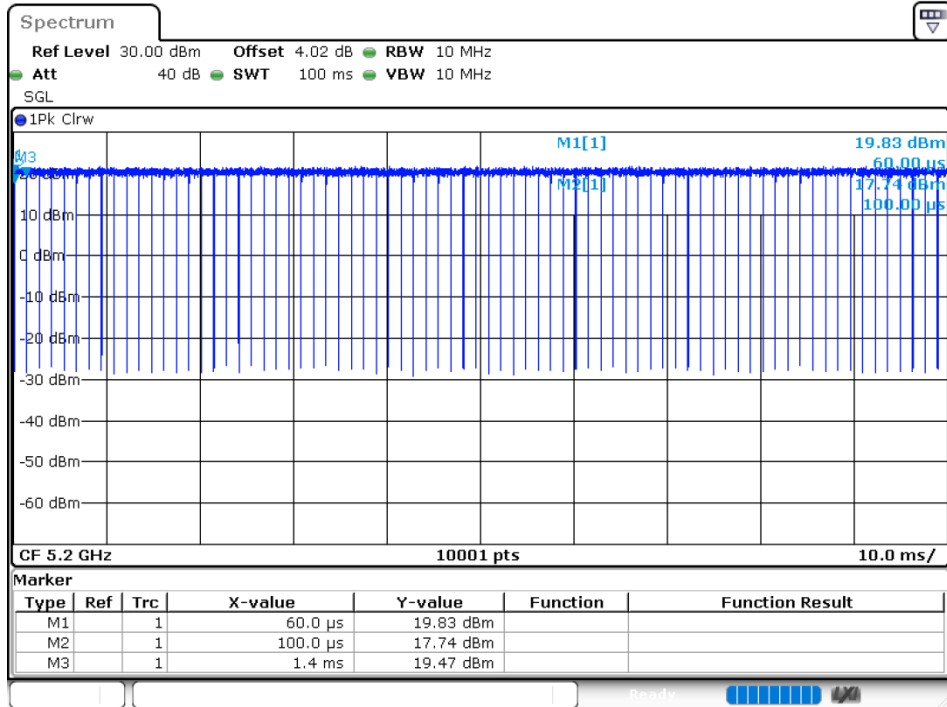
## Duty Cycle NVNT a 5240MHz Ant1



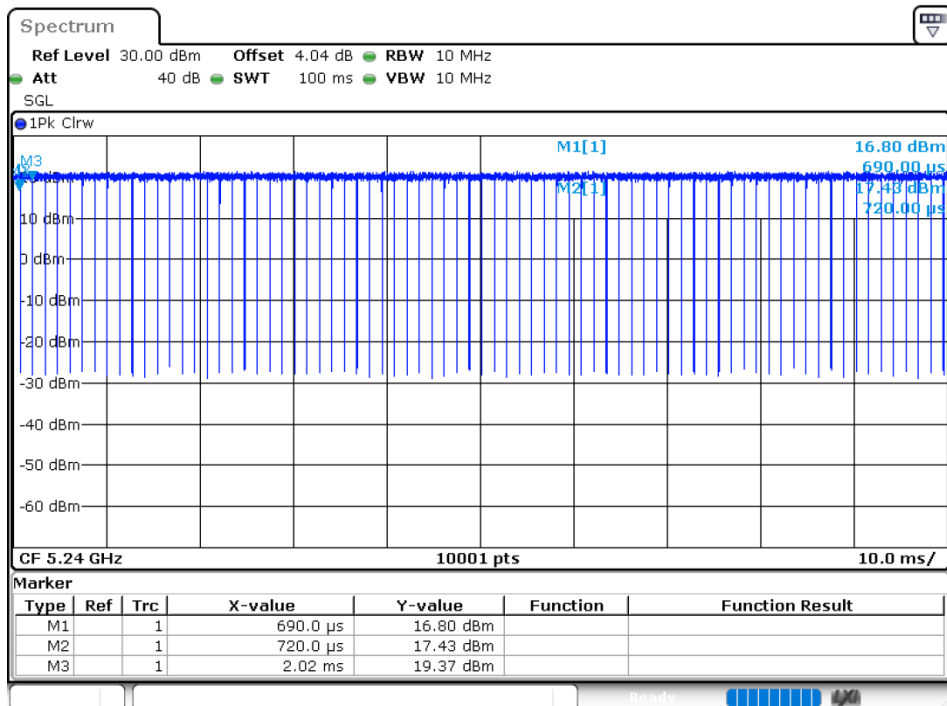
## Duty Cycle NVNT n20 5180MHz Ant1



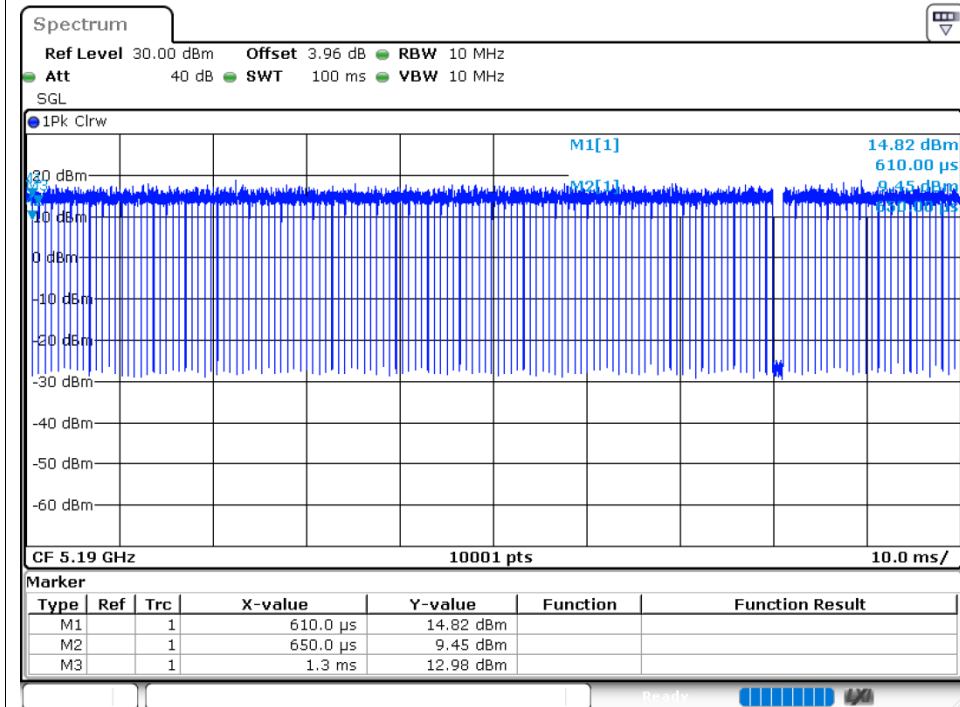
### Duty Cycle NVNT n20 5200MHz Ant1



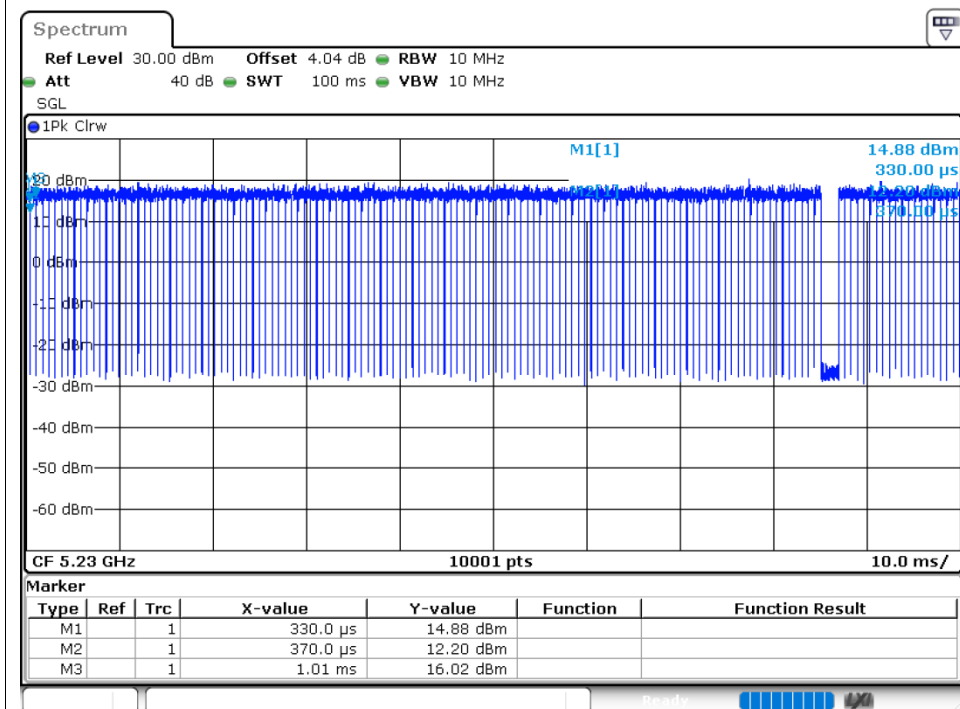
### Duty Cycle NVNT n20 5240MHz Ant1



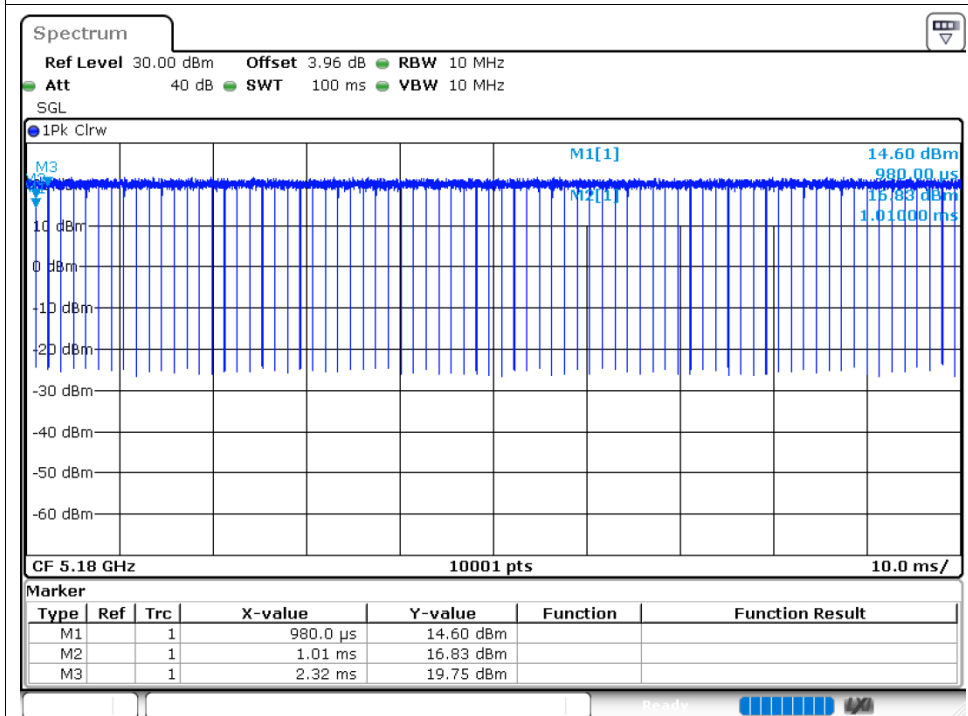
## Duty Cycle NVNT n40 5190MHz Ant1



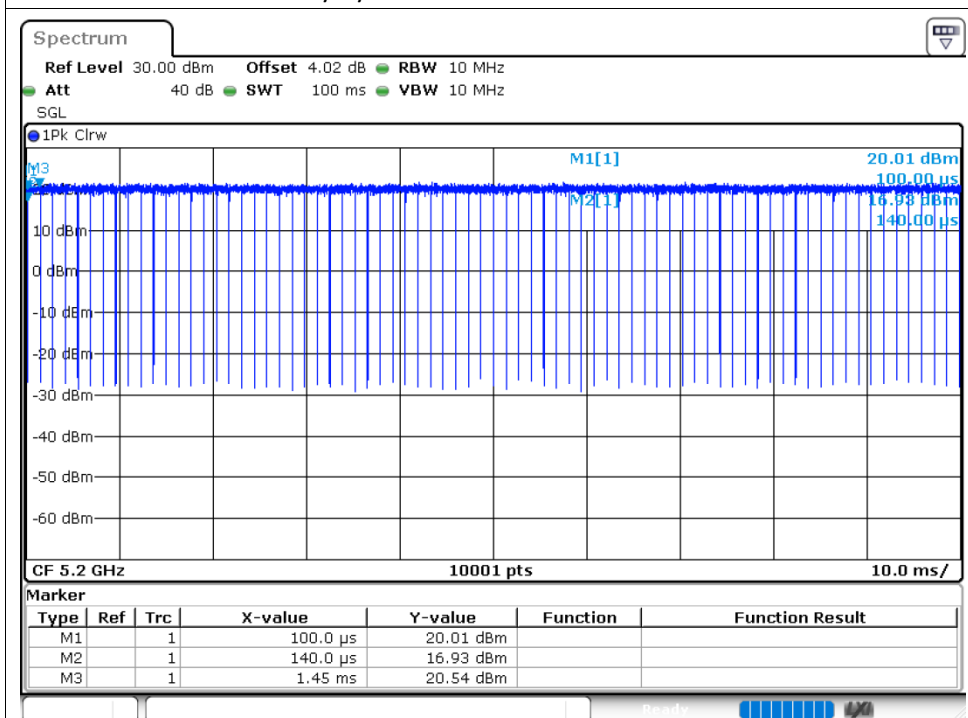
## Duty Cycle NVNT n40 5230MHz Ant1



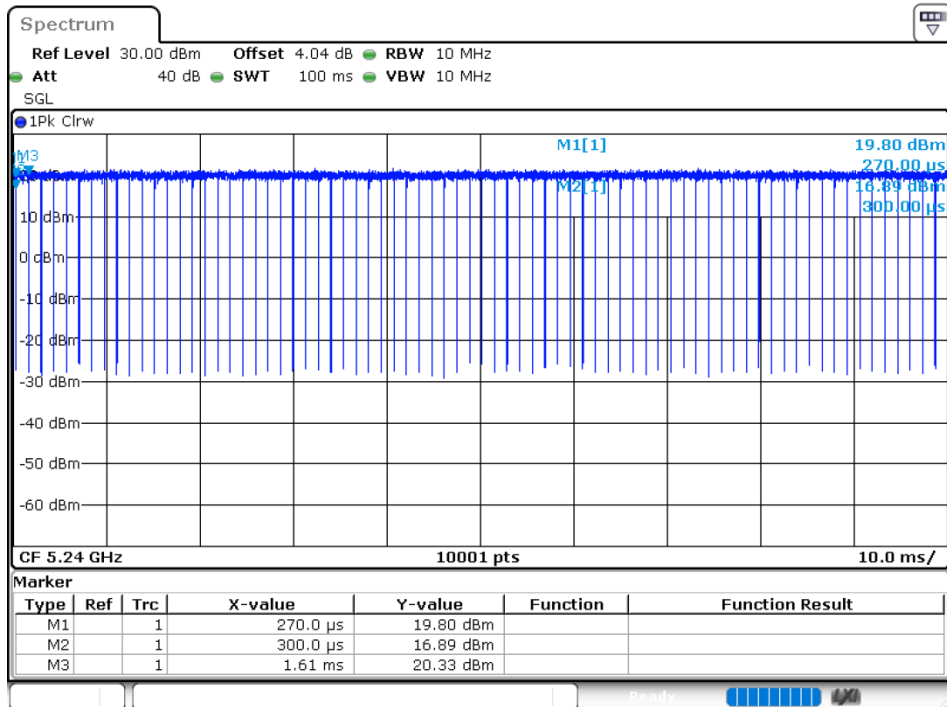
## Duty Cycle NVNT ac20 5180MHz Ant1



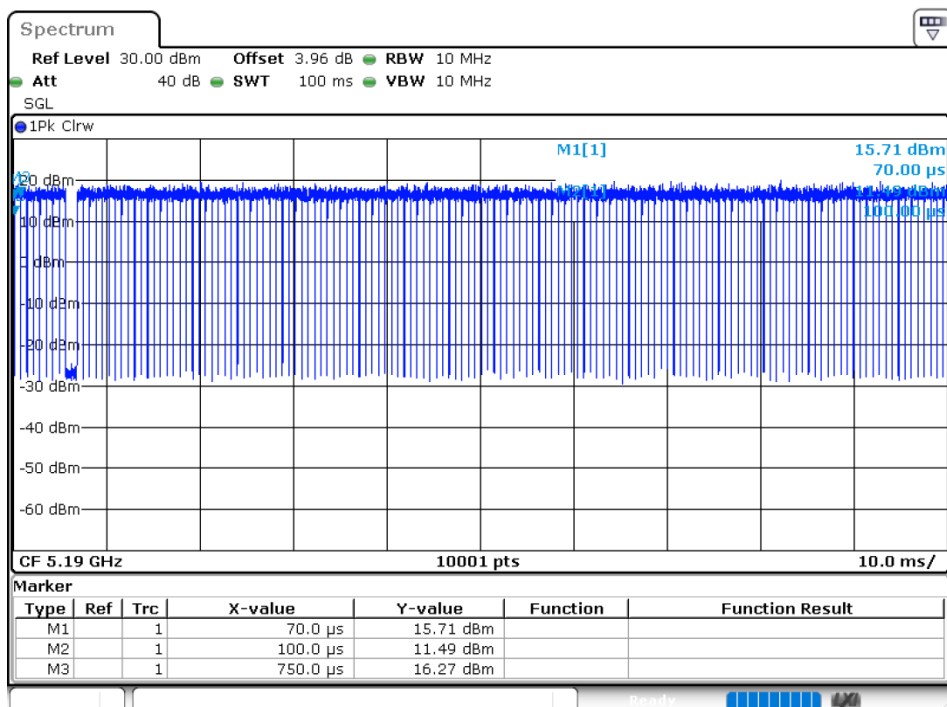
## Duty Cycle NVNT ac20 5200MHz Ant1



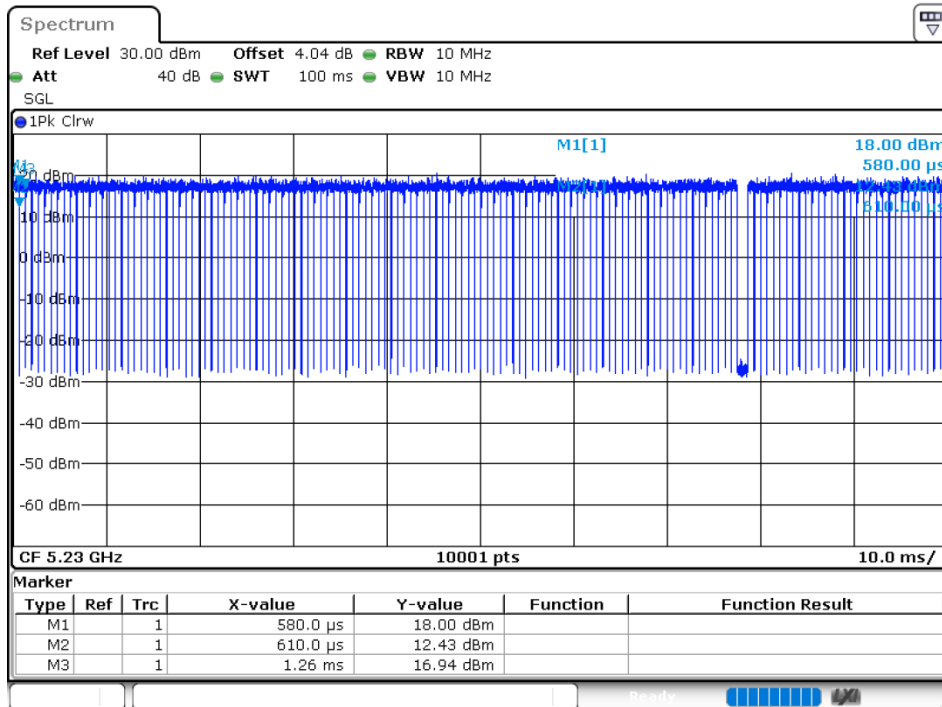
### Duty Cycle NVNT ac20 5240MHz Ant1



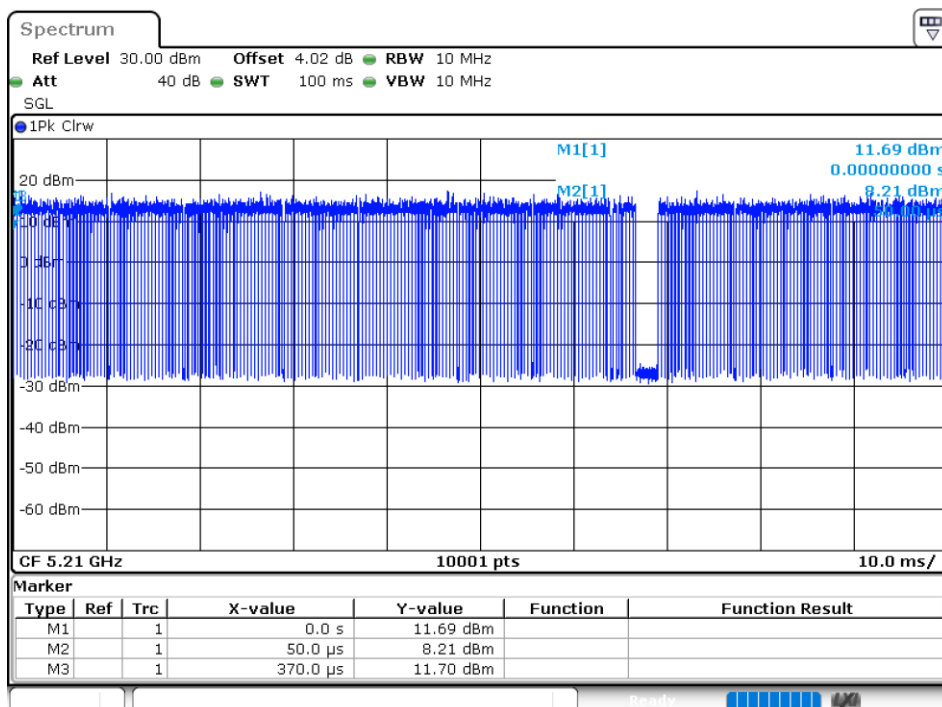
### Duty Cycle NVNT ac40 5190MHz Ant1



## Duty Cycle NVNT ac40 5230MHz Ant1



## Duty Cycle NVNT ac80 5210MHz Ant1





## Maximum Conducted Output Power

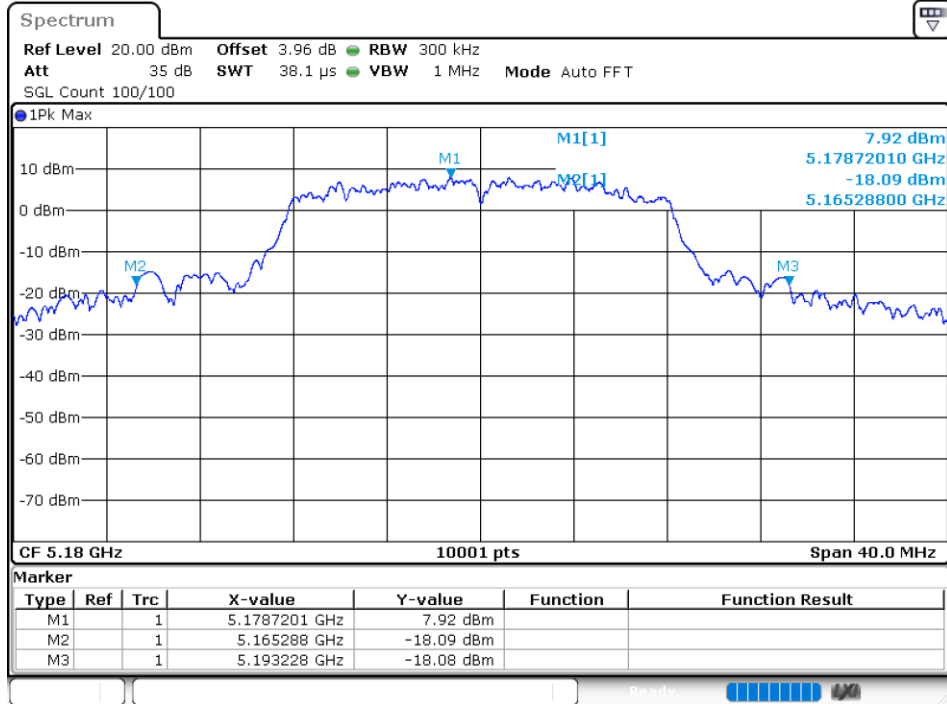
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 16.86                 | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 18.34                 | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 18.46                 | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 15.54                 | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 16.47                 | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 16.59                 | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 12.48                 | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 14.04                 | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 15.48                 | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 16.23                 | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 16.46                 | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 12.86                 | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 14.28                 | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 12.54                 | 24          | Pass    |

## -26dB Bandwidth

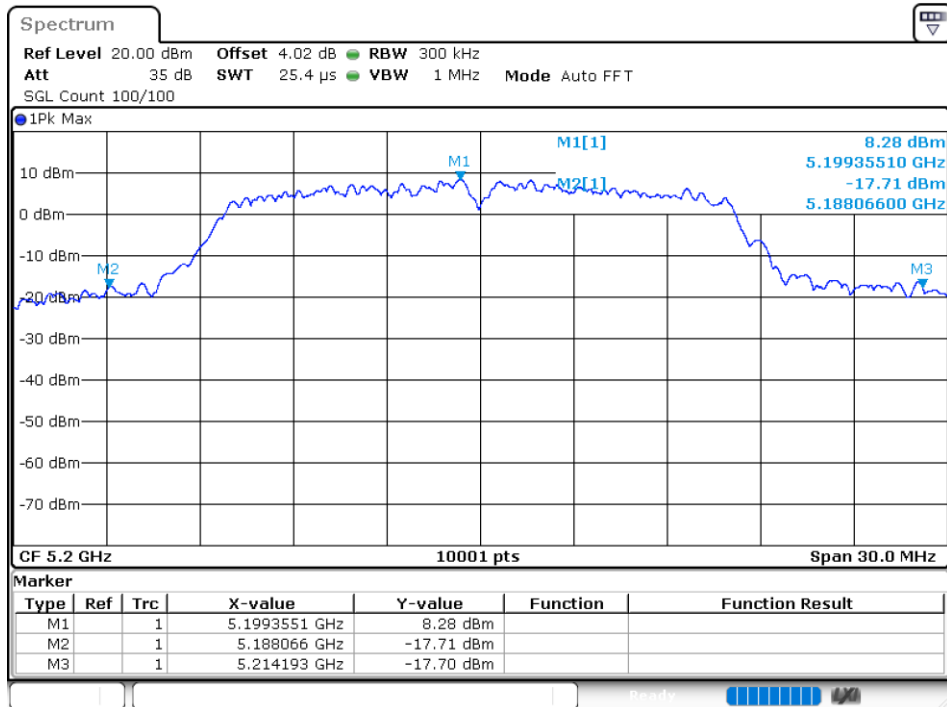
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 27.94                  | Pass    |
| NVNT      | a    | 5200            | Ant1    | 26.127                 | Pass    |
| NVNT      | a    | 5240            | Ant1    | 29.046                 | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 20.448                 | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 24.006                 | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 27.111                 | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 40.638                 | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 40.704                 | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 20.487                 | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 20.421                 | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 20.409                 | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 40.716                 | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 43.74                  | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 82.848                 | Pass    |

### Test Graphs

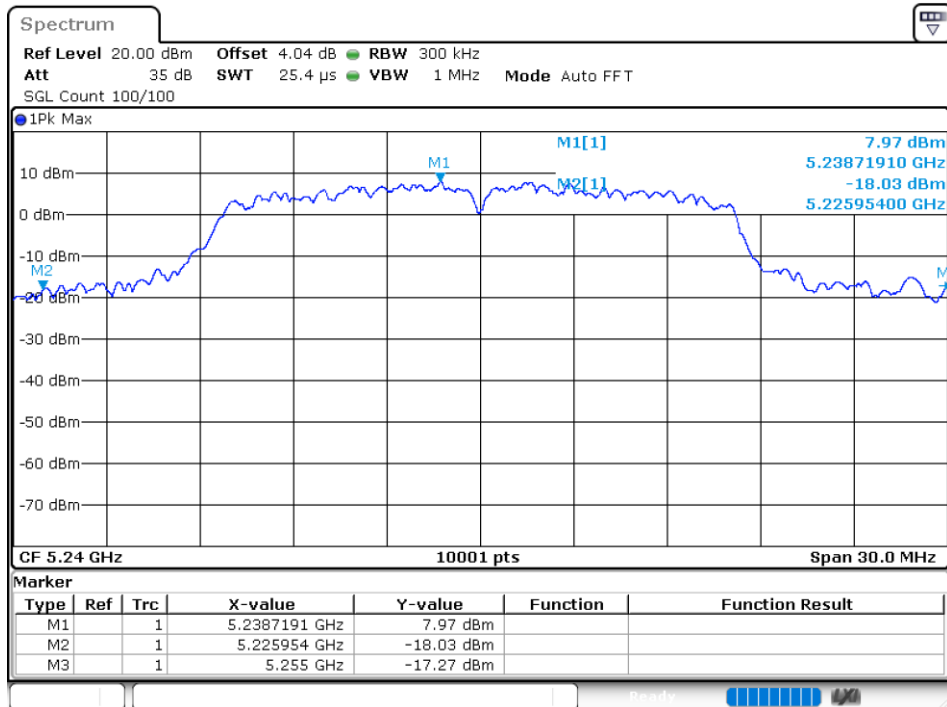
#### -26dB Bandwidth NVNT a 5180MHz Ant1



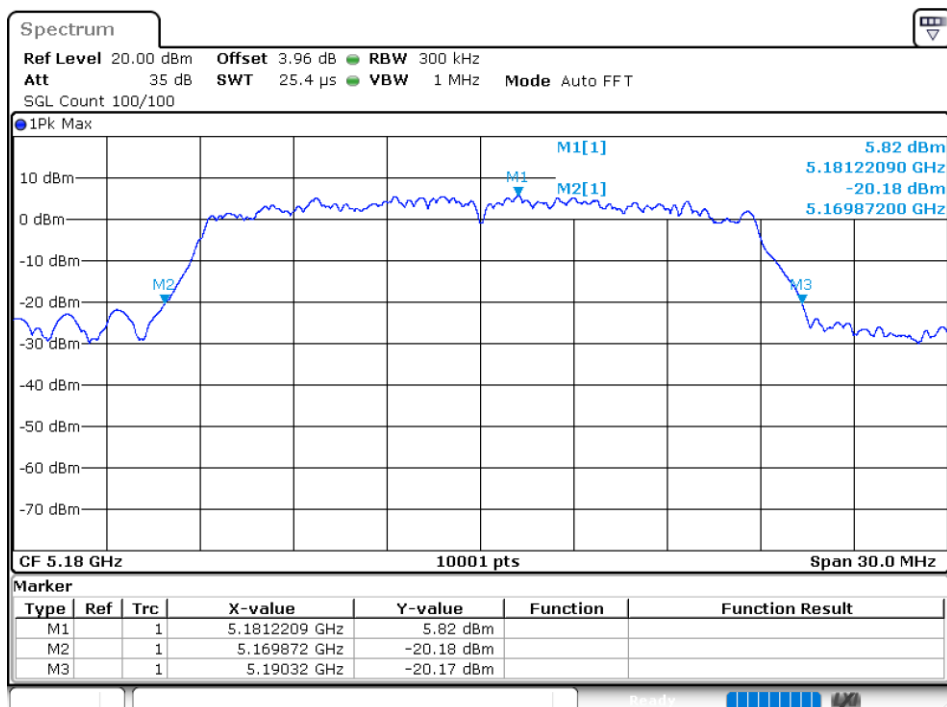
#### -26dB Bandwidth NVNT a 5200MHz Ant1



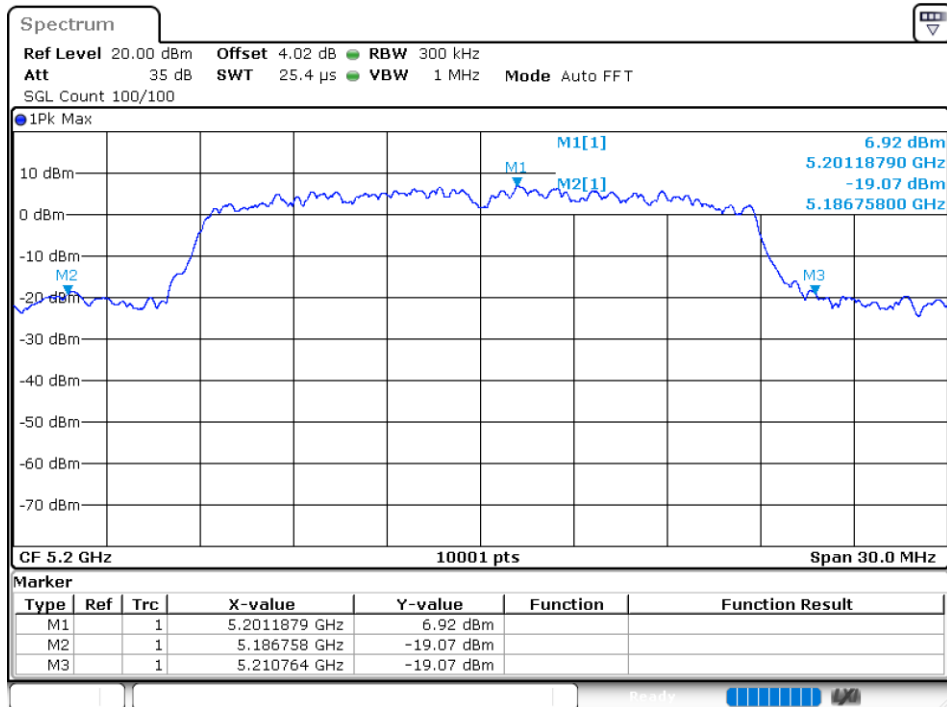
-26dB Bandwidth NVNT a 5240MHz Ant1



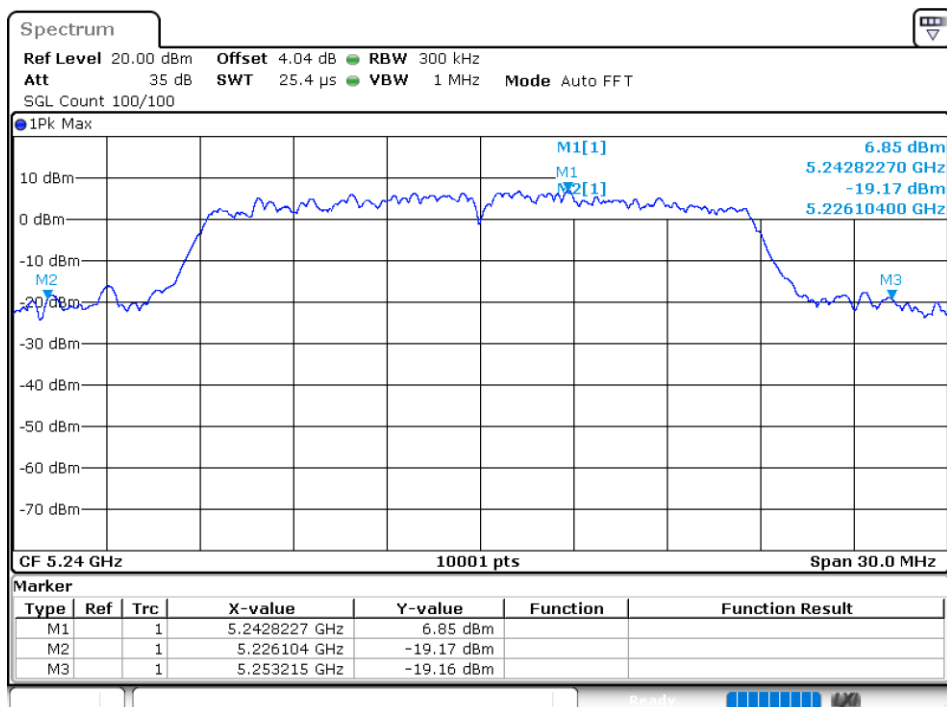
-26dB Bandwidth NVNT n20 5180MHz Ant1



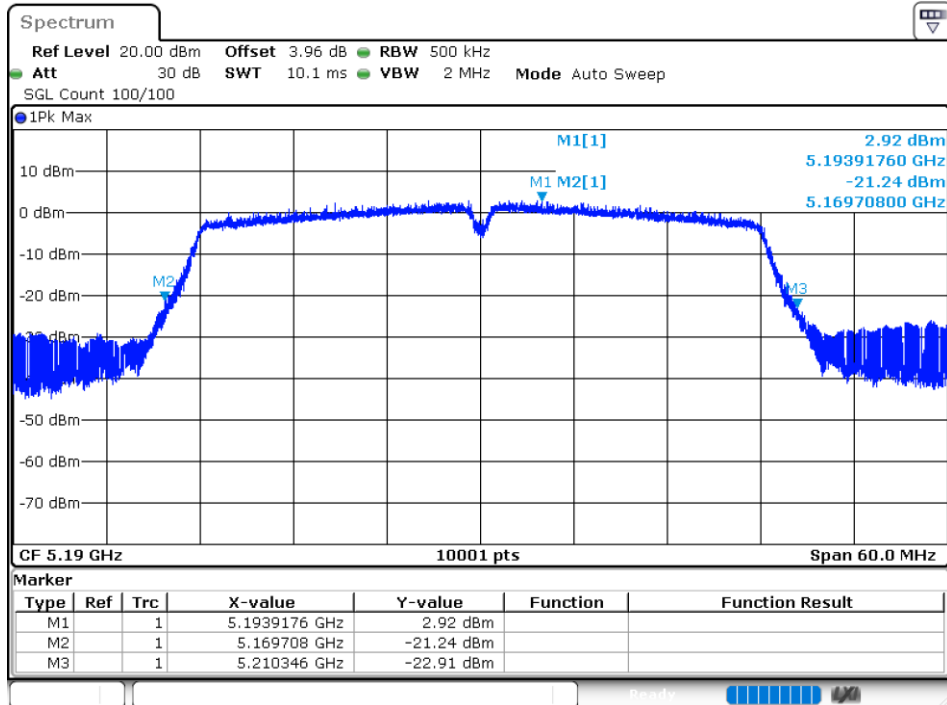
-26dB Bandwidth NVNT n20 5200MHz Ant1



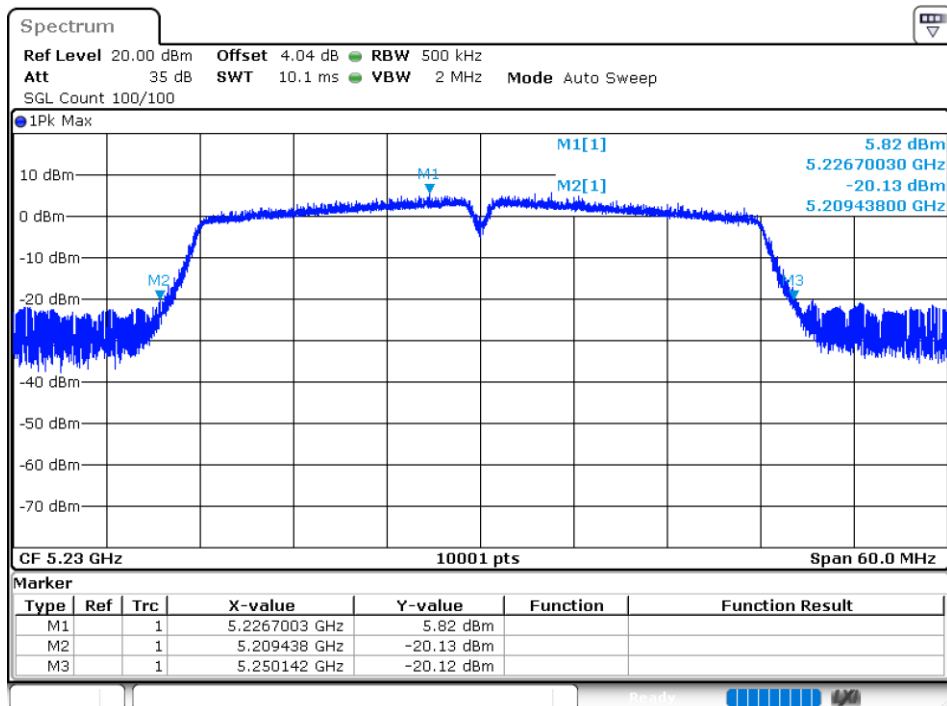
-26dB Bandwidth NVNT n20 5240MHz Ant1



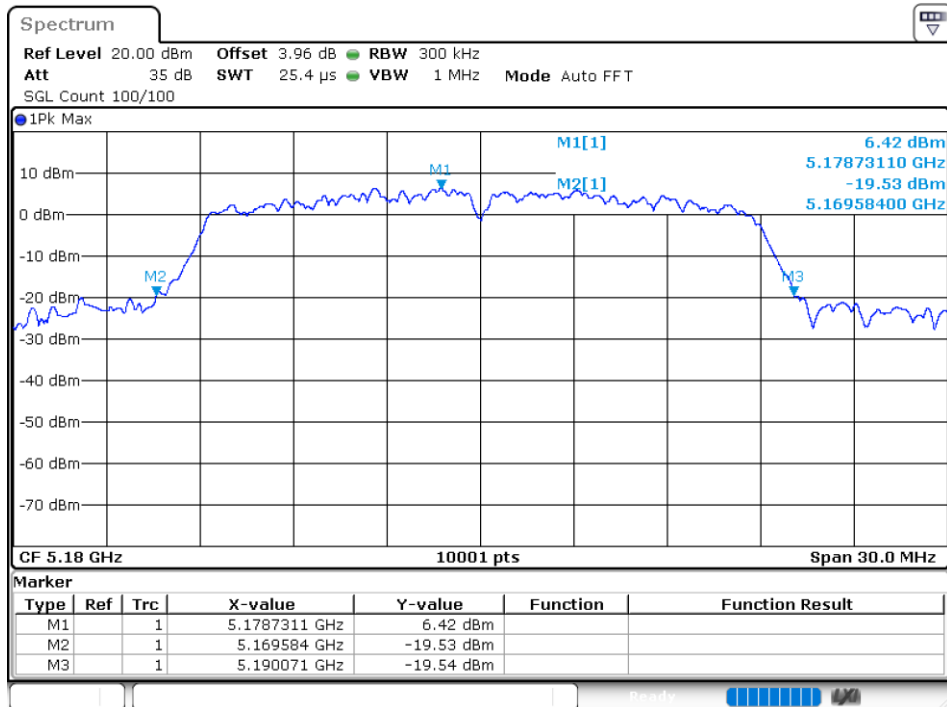
## -26dB Bandwidth NVNT n40 5190MHz Ant1



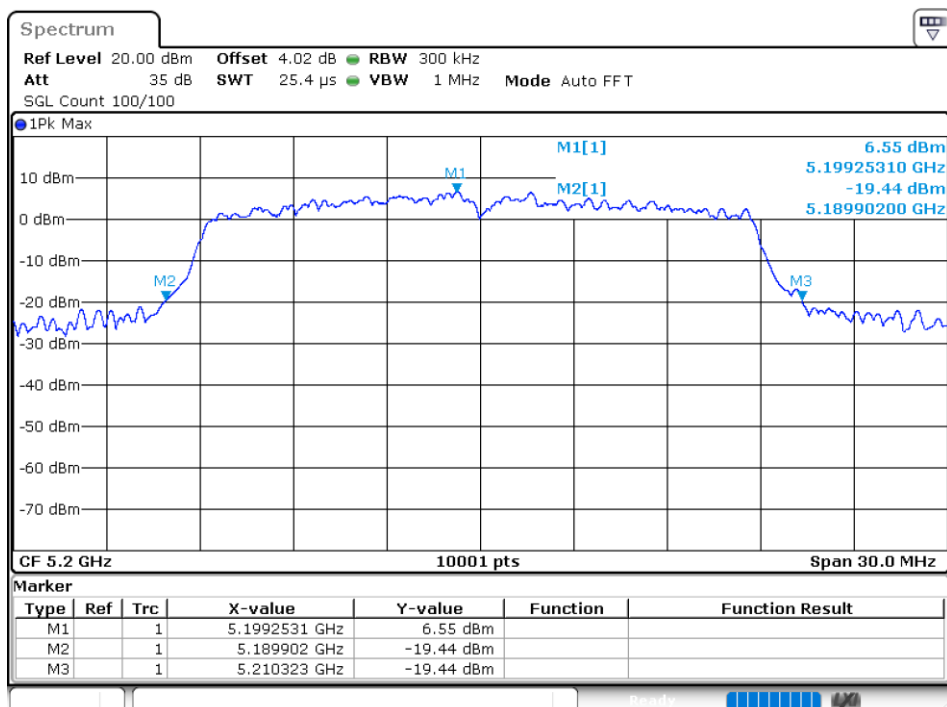
## -26dB Bandwidth NVNT n40 5230MHz Ant1



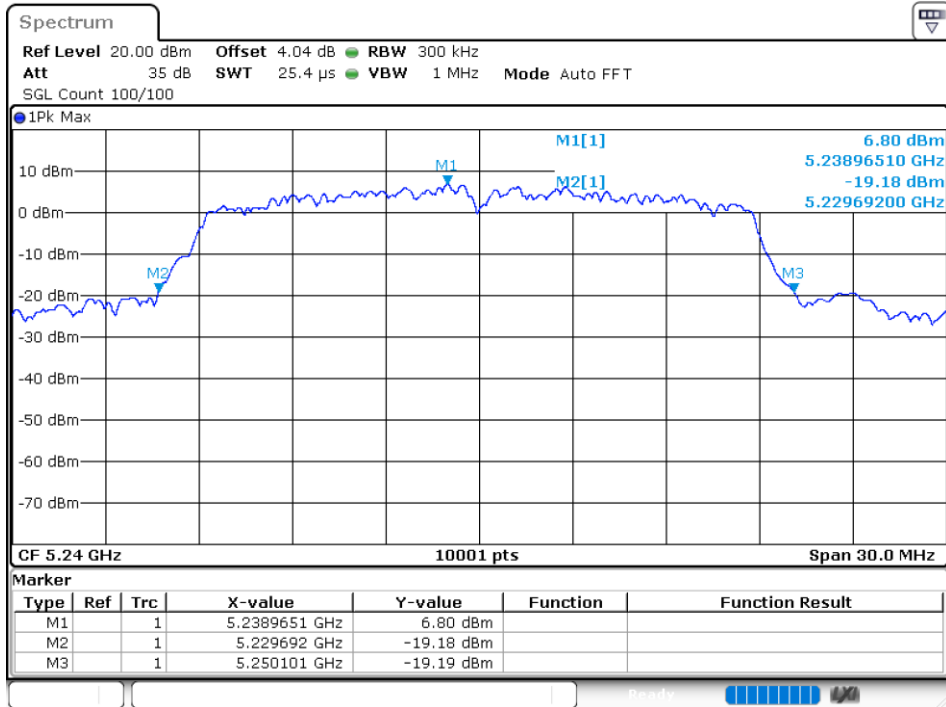
-26dB Bandwidth NVNT ac20 5180MHz Ant1



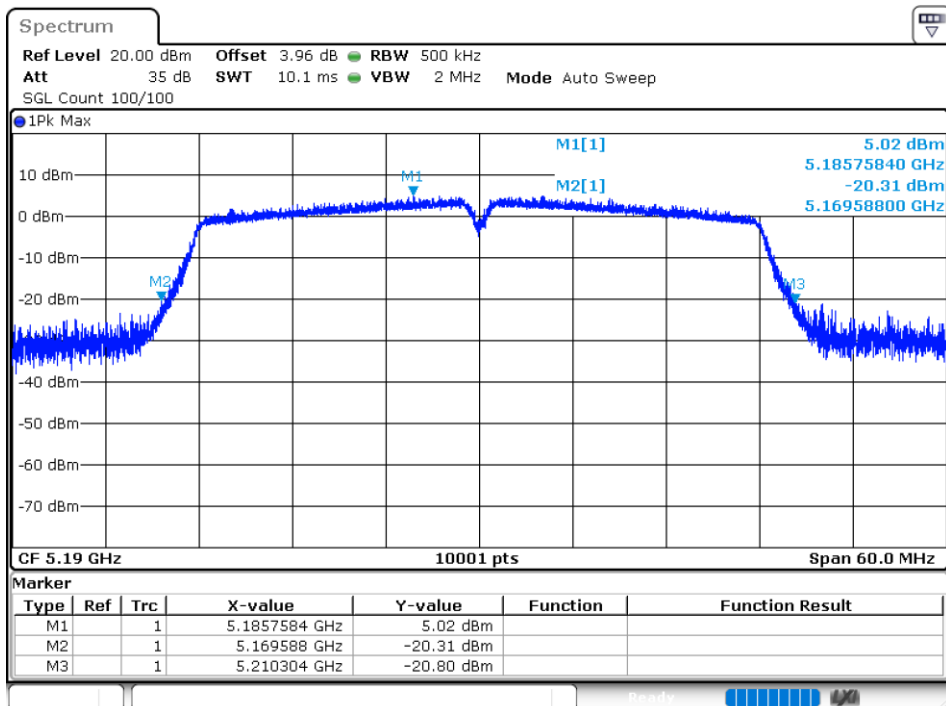
-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1

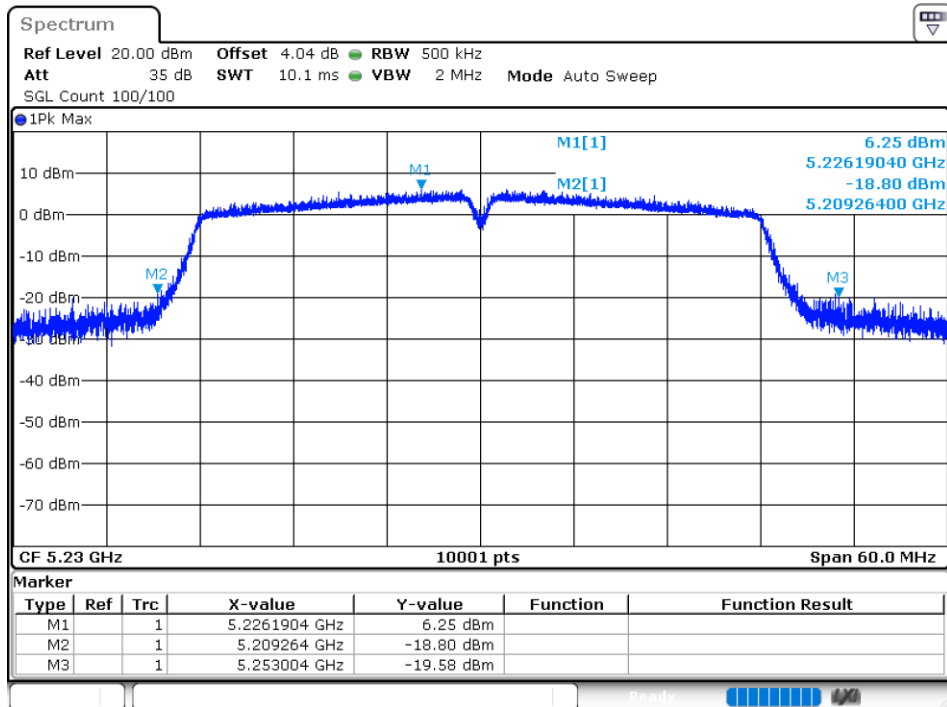


-26dB Bandwidth NVNT ac40 5190MHz Ant1

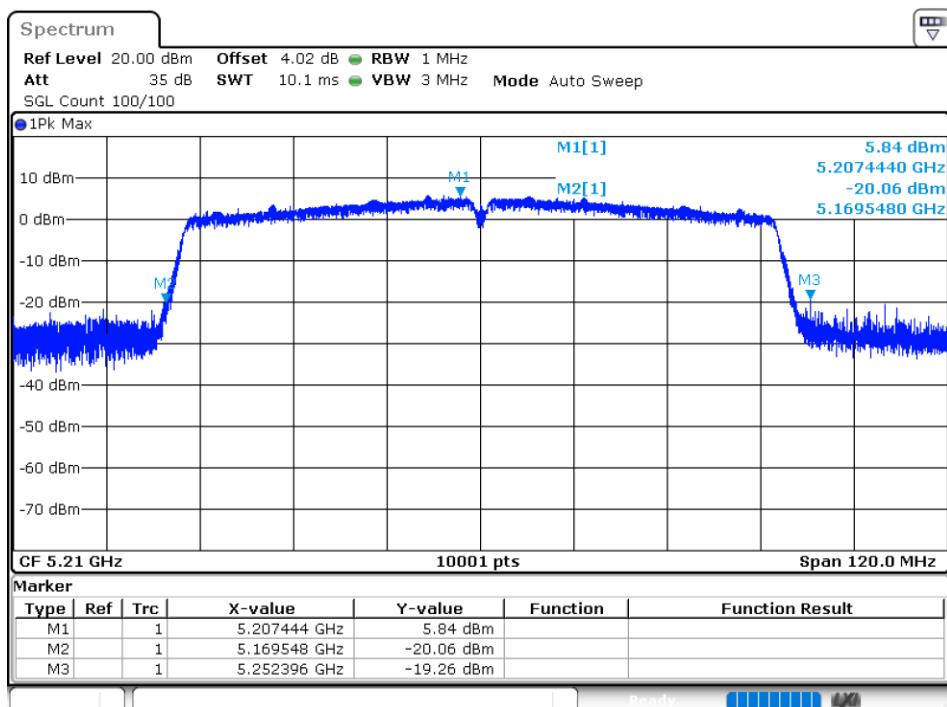




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

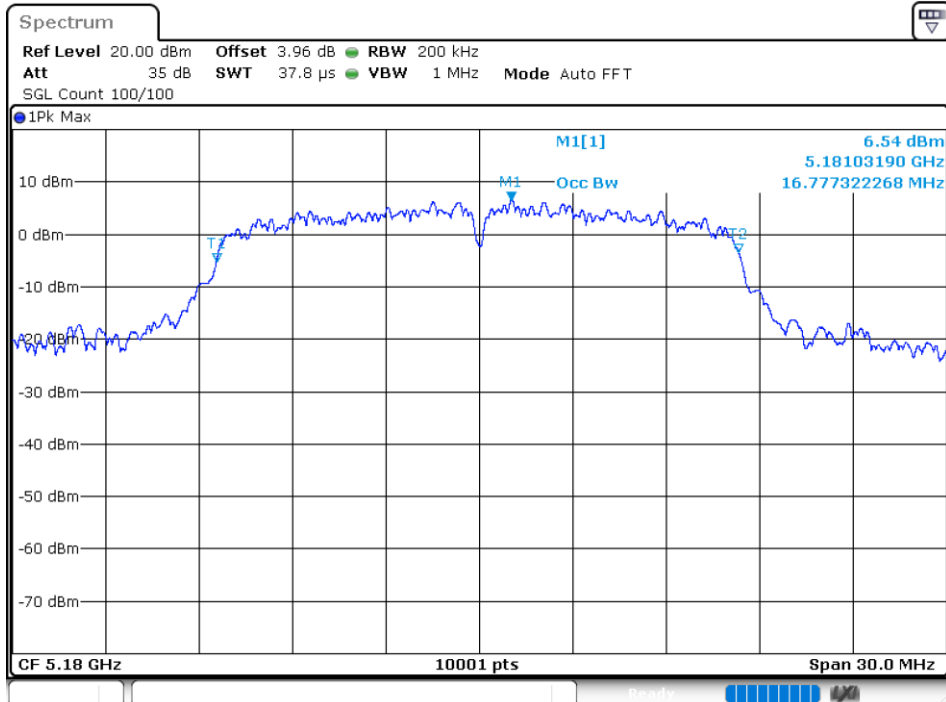


## Occupied Channel Bandwidth

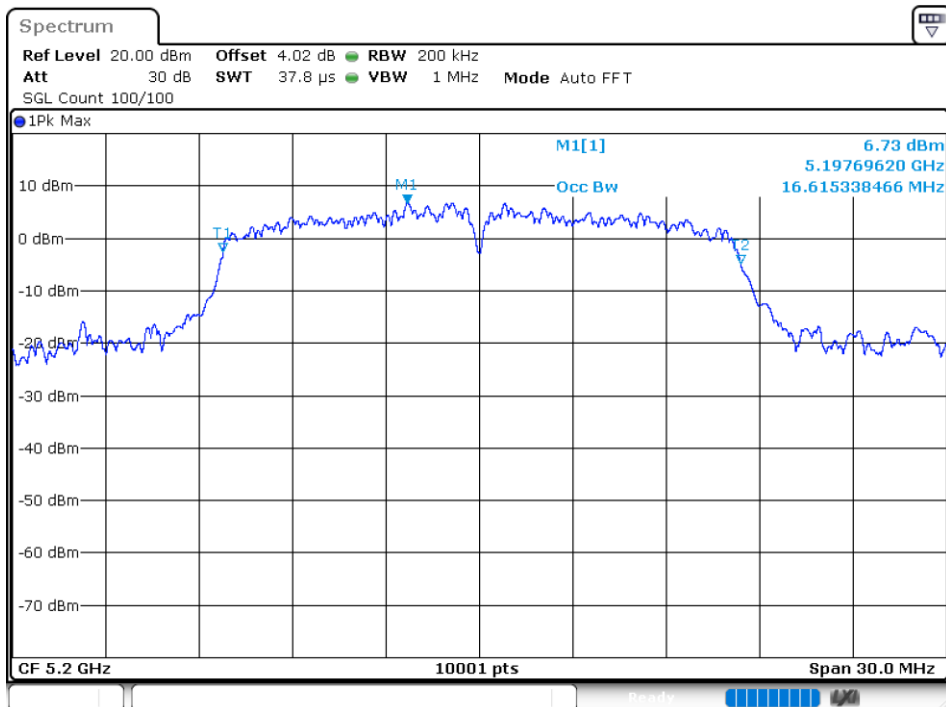
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5180            | Ant1    | 16.777        |
| NVNT      | a    | 5200            | Ant1    | 16.615        |
| NVNT      | a    | 5240            | Ant1    | 16.597        |
| NVNT      | n20  | 5180            | Ant1    | 17.548        |
| NVNT      | n20  | 5200            | Ant1    | 17.692        |
| NVNT      | n20  | 5240            | Ant1    | 17.734        |
| NVNT      | n40  | 5190            | Ant1    | 36.032        |
| NVNT      | n40  | 5230            | Ant1    | 36.098        |
| NVNT      | ac20 | 5180            | Ant1    | 17.653        |
| NVNT      | ac20 | 5200            | Ant1    | 17.506        |
| NVNT      | ac20 | 5240            | Ant1    | 17.575        |
| NVNT      | ac40 | 5190            | Ant1    | 36.02         |
| NVNT      | ac40 | 5230            | Ant1    | 36.068        |
| NVNT      | ac80 | 5210            | Ant1    | 75.1          |

## Test Graphs

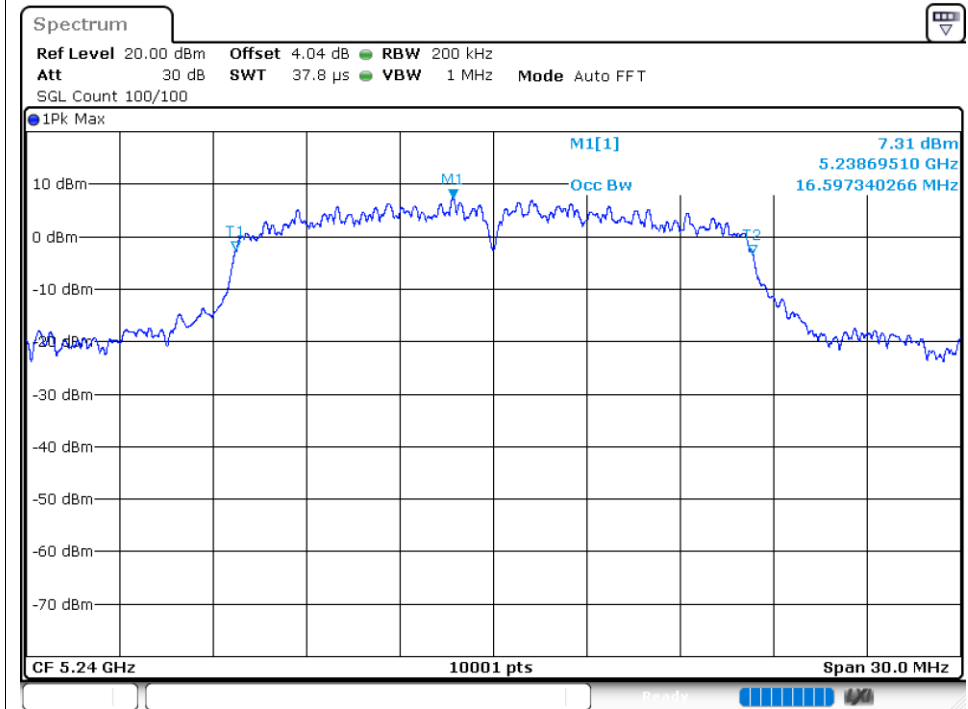
### OBW NVNT a 5180MHz Ant1



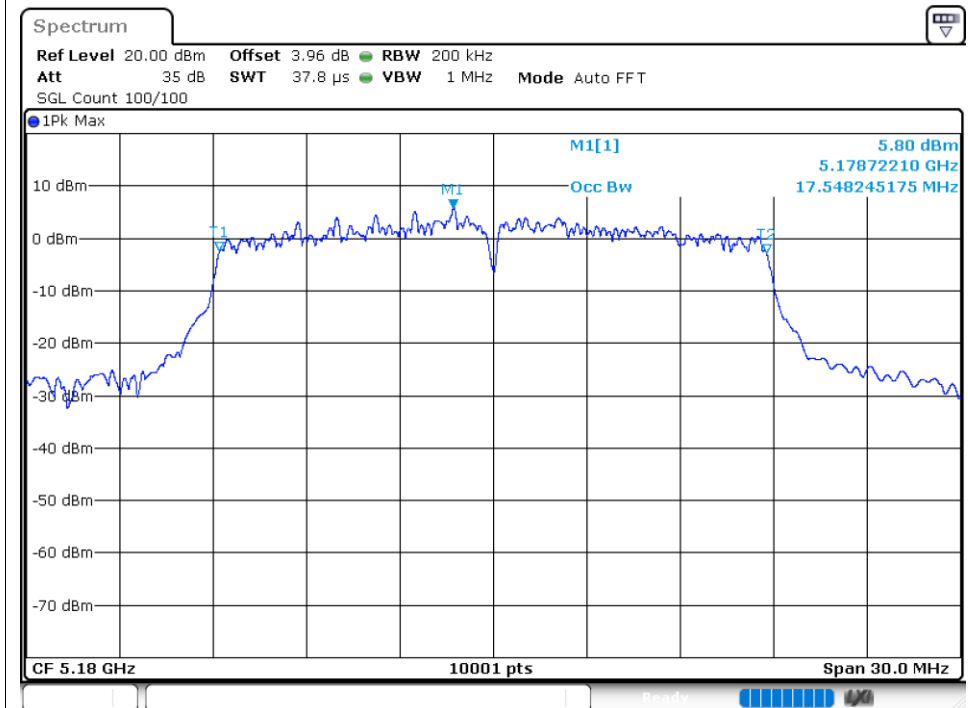
### OBW NVNT a 5200MHz Ant1

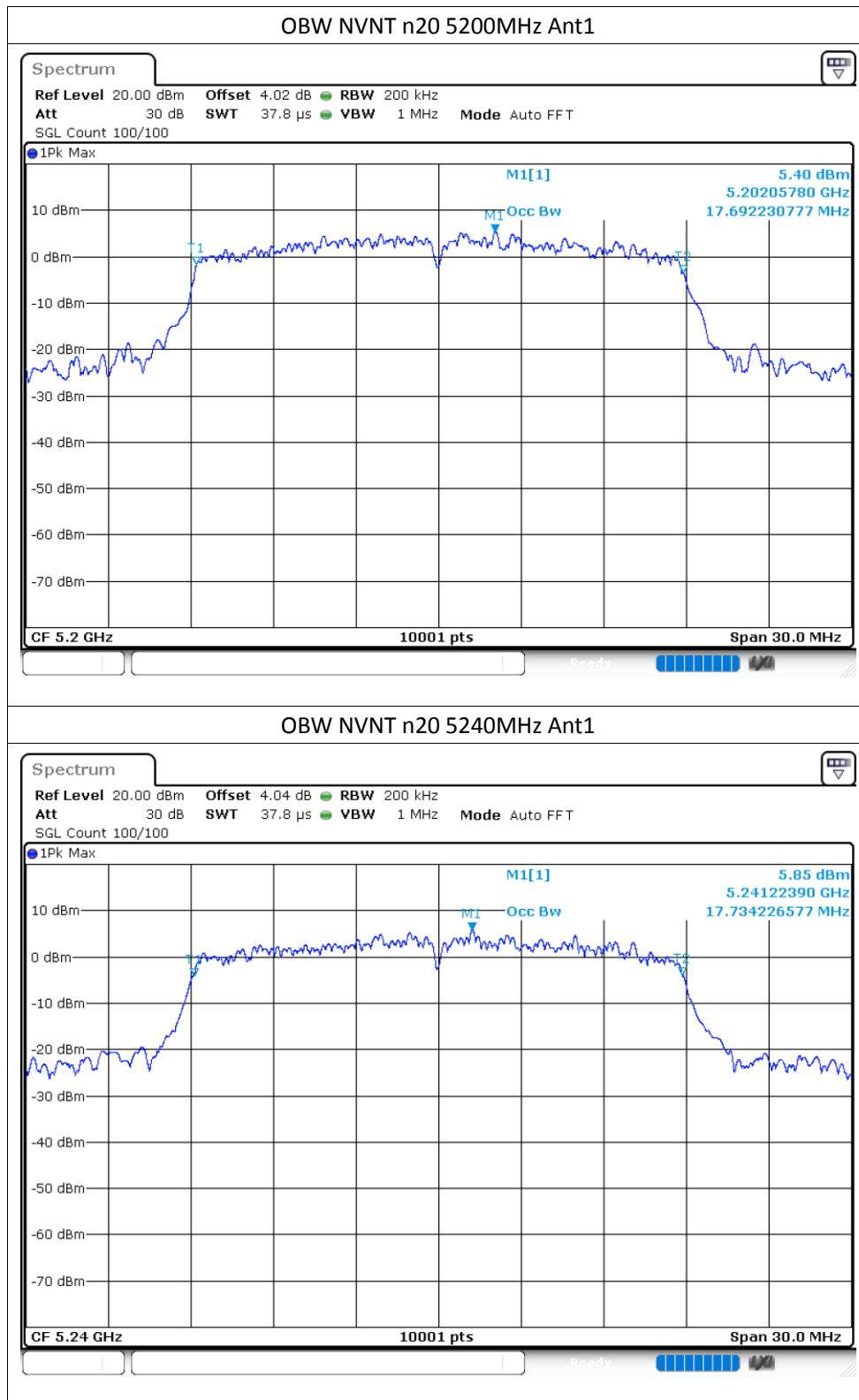


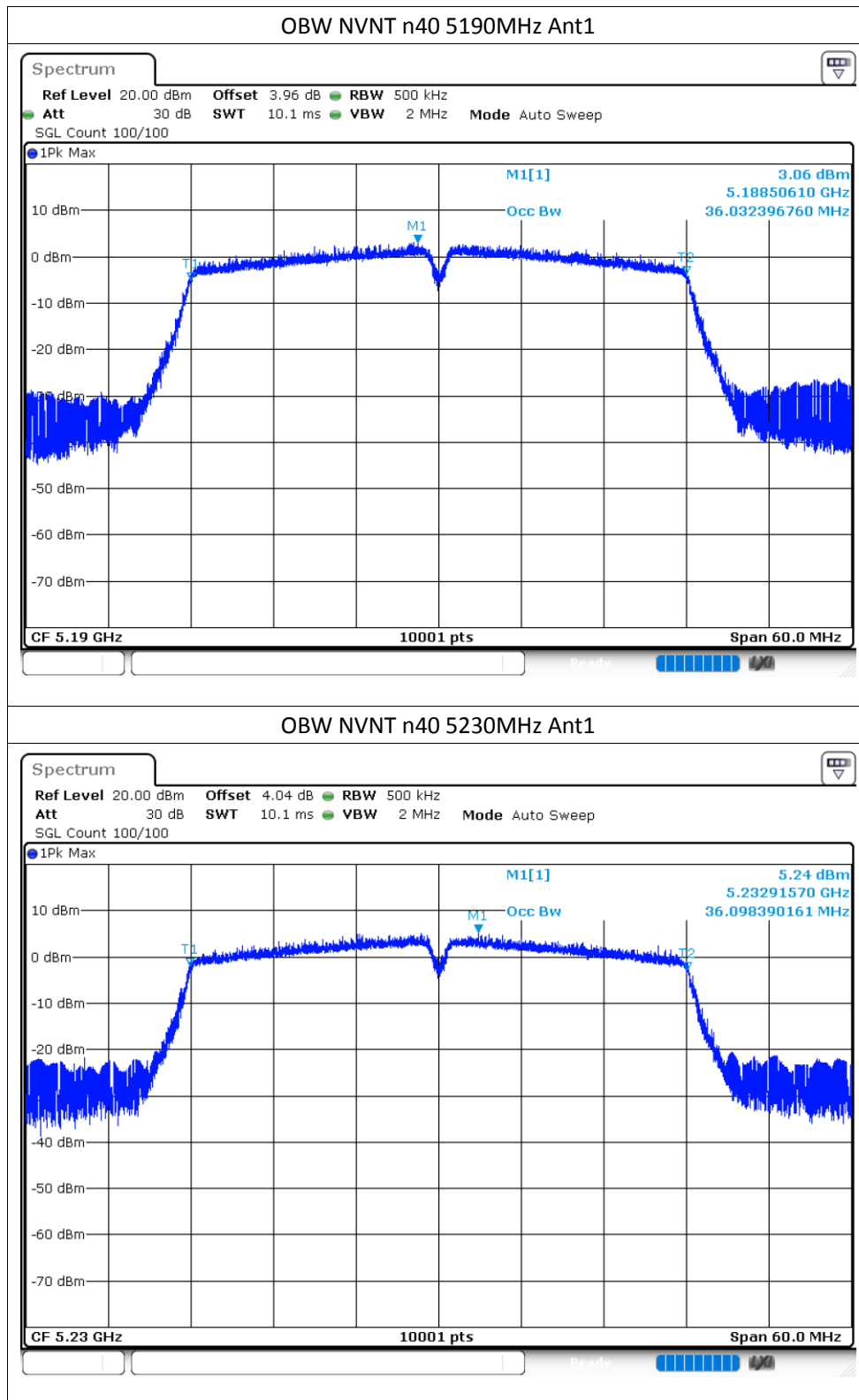
### OBW NVNT a 5240MHz Ant1



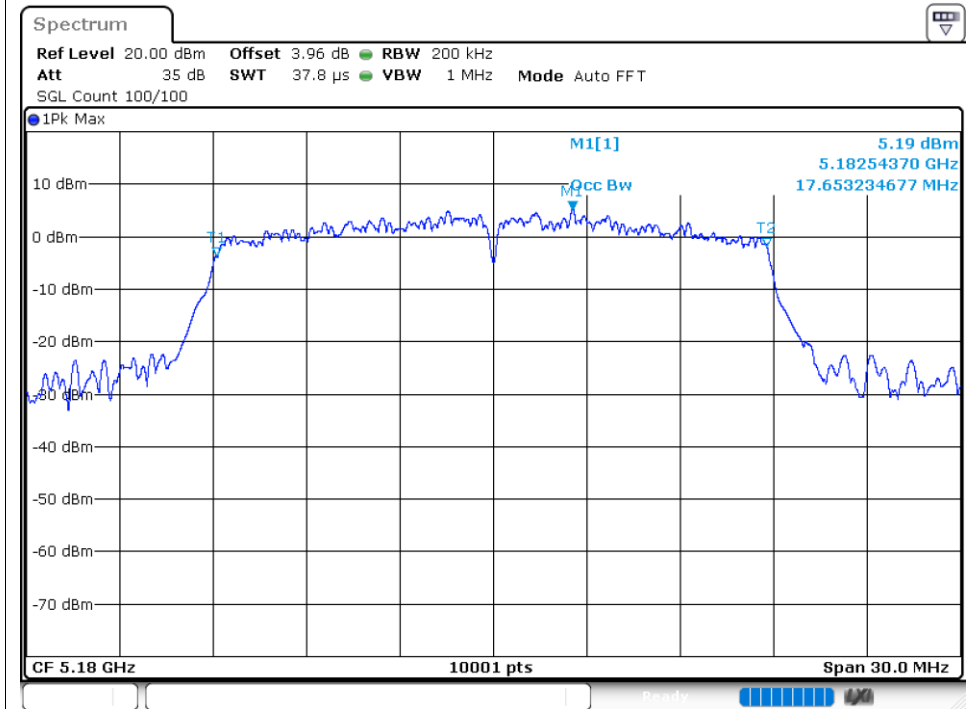
### OBW NVNT n20 5180MHz Ant1



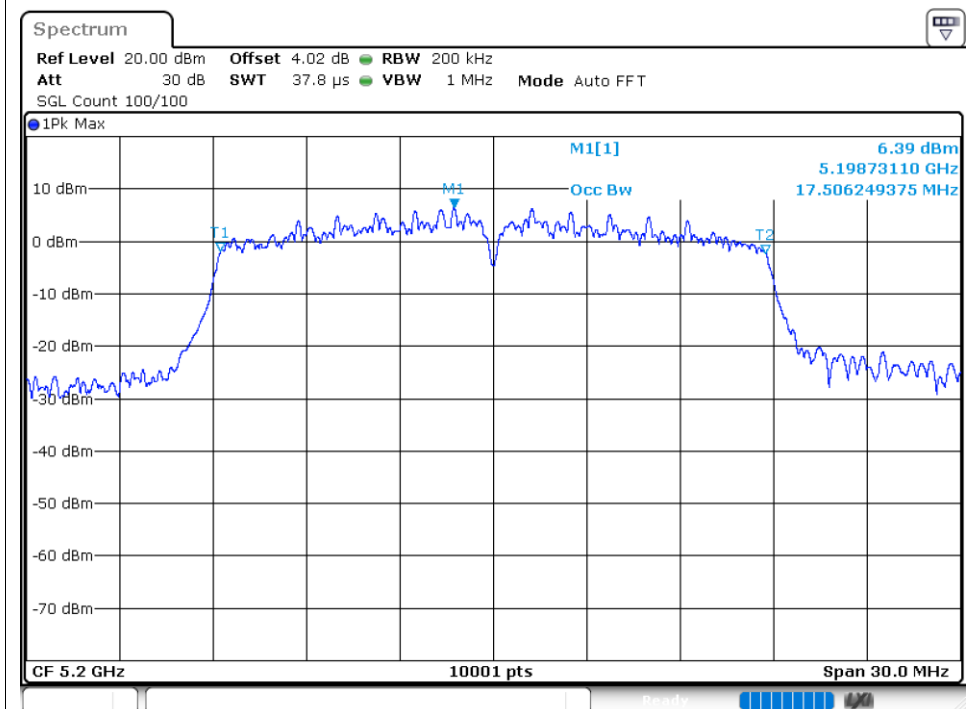




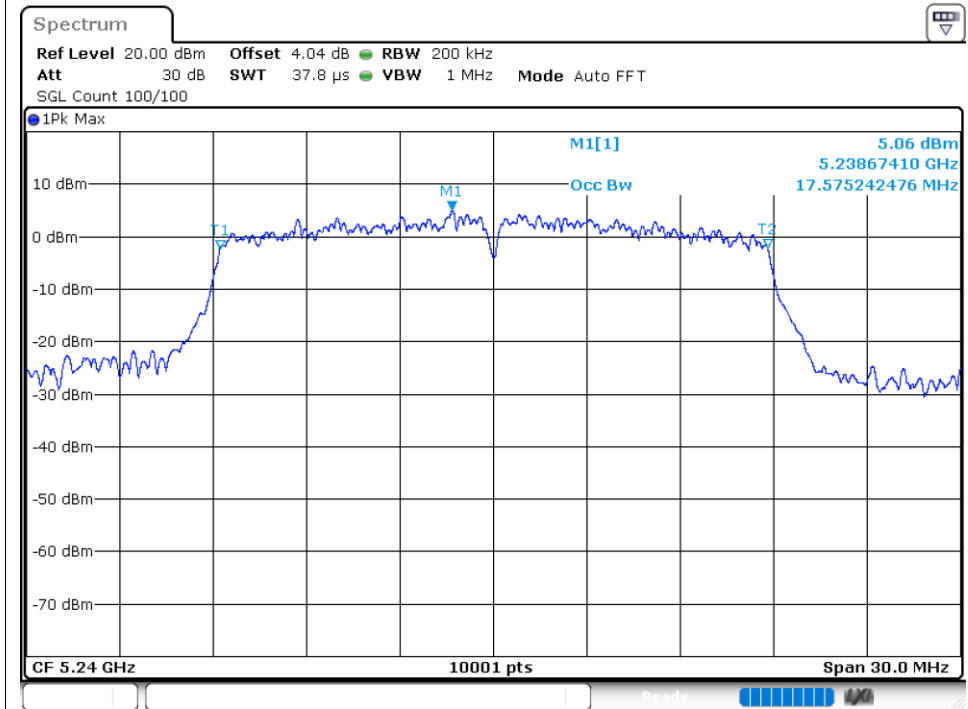
### OBW NVNT ac20 5180MHz Ant1



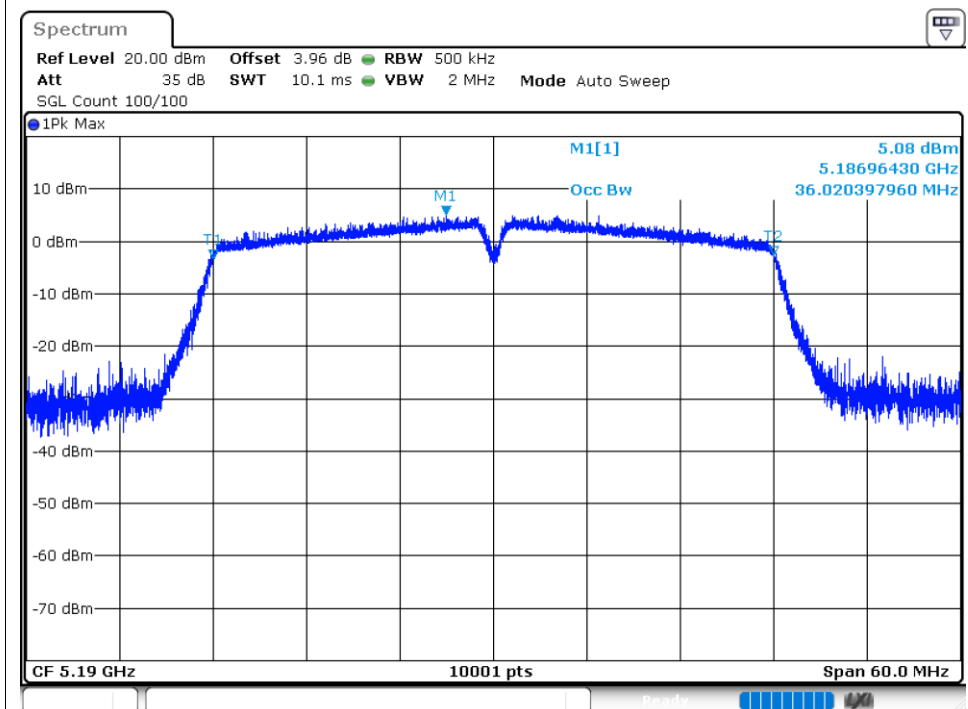
### OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1

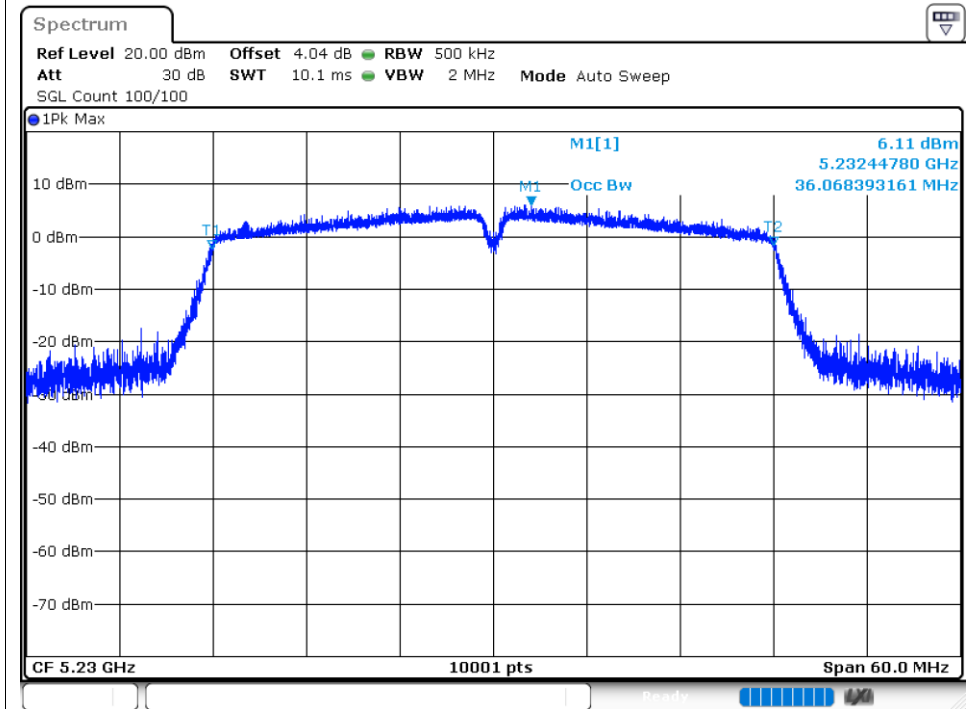


OBW NVNT ac40 5190MHz Ant1

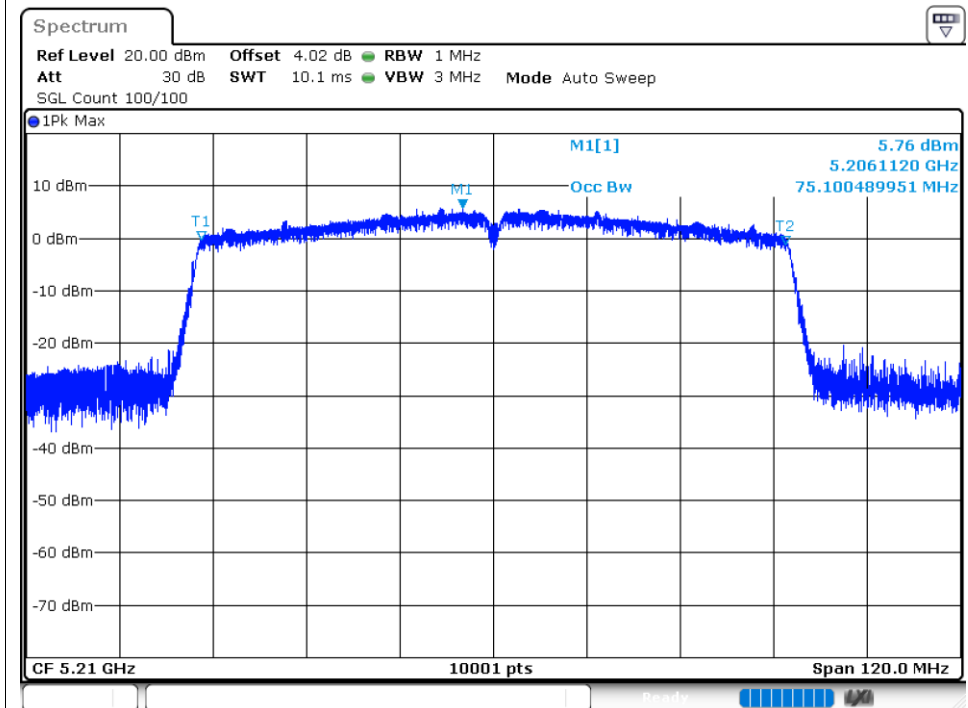




OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1

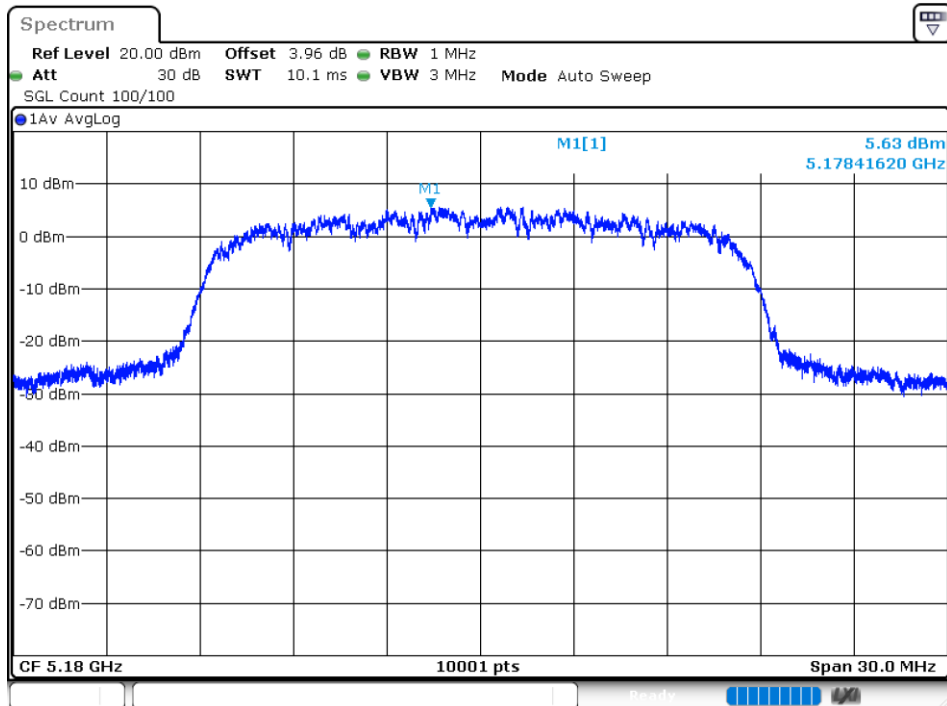


## Maximum Power Spectral Density Level

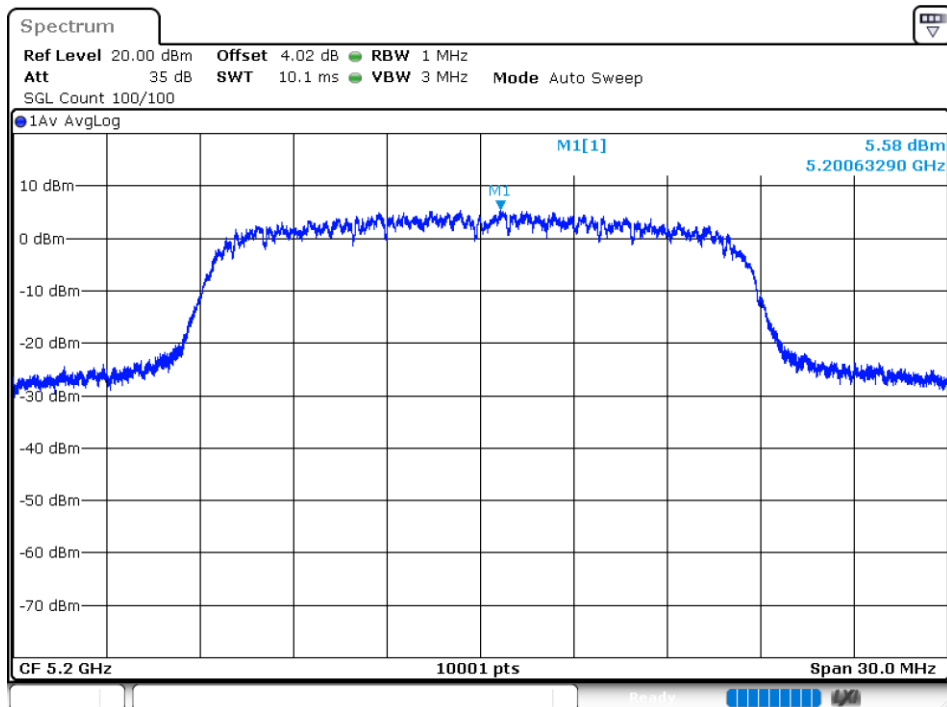
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 5.63                | 0.08             | 5.71            | 11          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 5.58                | 0.08             | 5.66            | 11          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5.29                | 0.08             | 5.37            | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 3.4                 | 0.09             | 3.49            | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 4.19                | 0.09             | 4.28            | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 4.25                | 0.08             | 4.33            | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -3.63               | 0.21             | -3.42           | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -1.95               | 0.24             | -1.71           | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 4.06                | 0.08             | 4.14            | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 3.67                | 0.09             | 3.76            | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 3.94                | 0.09             | 4.03            | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -1.50               | 0.21             | -1.29           | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -0.18               | 0.21             | 0.03            | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -8.84               | 0.67             | -8.17           | 11          | Pass    |

## Test Graphs

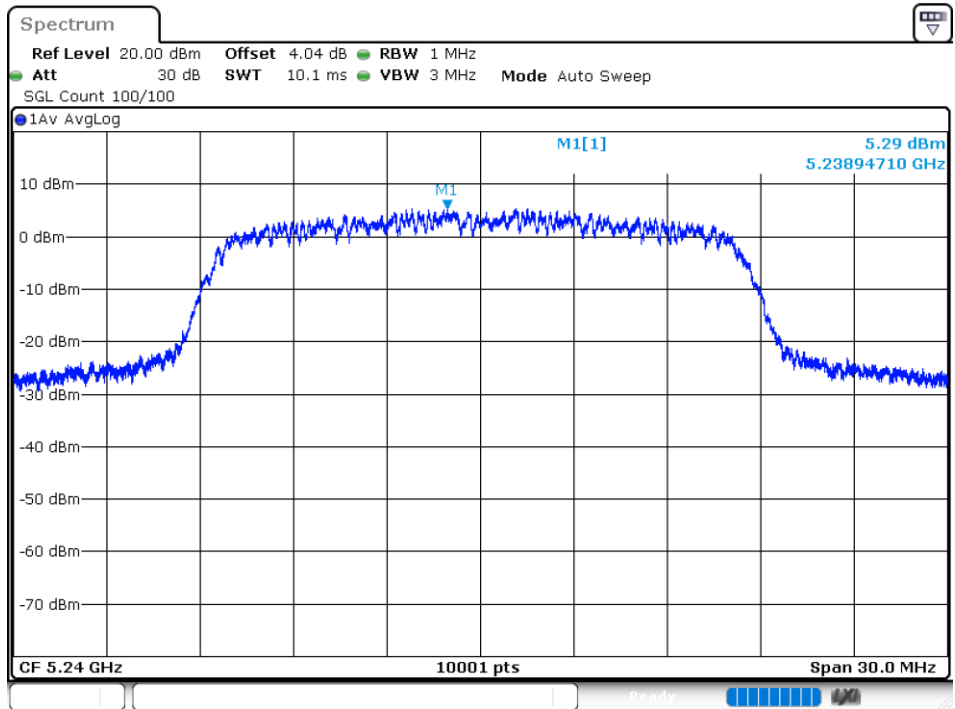
### PSD NVNT a 5180MHz Ant1



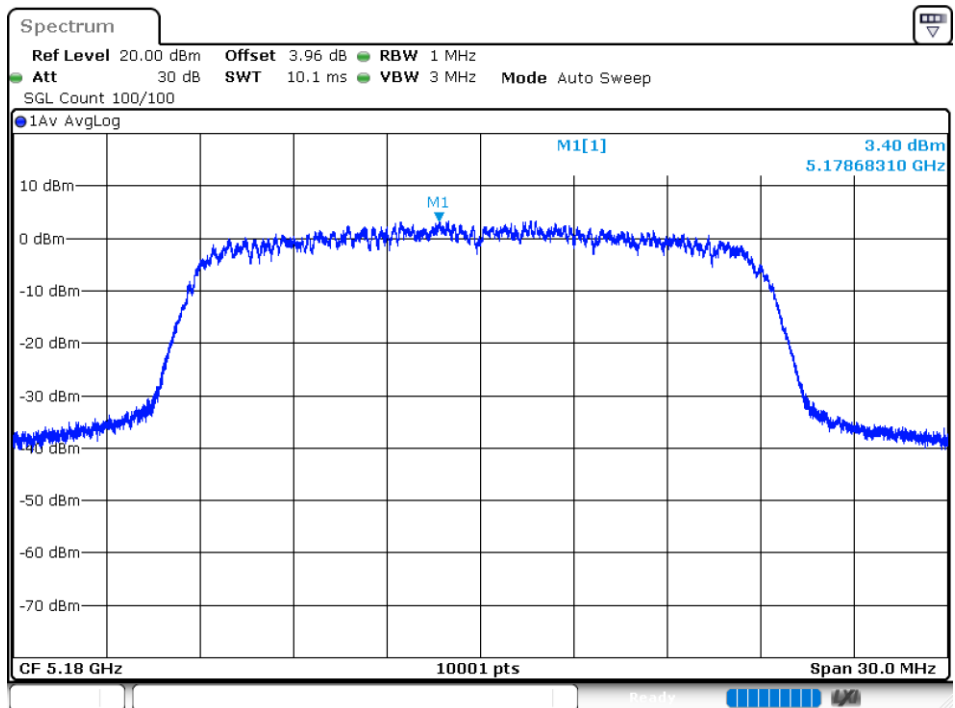
### PSD NVNT a 5200MHz Ant1

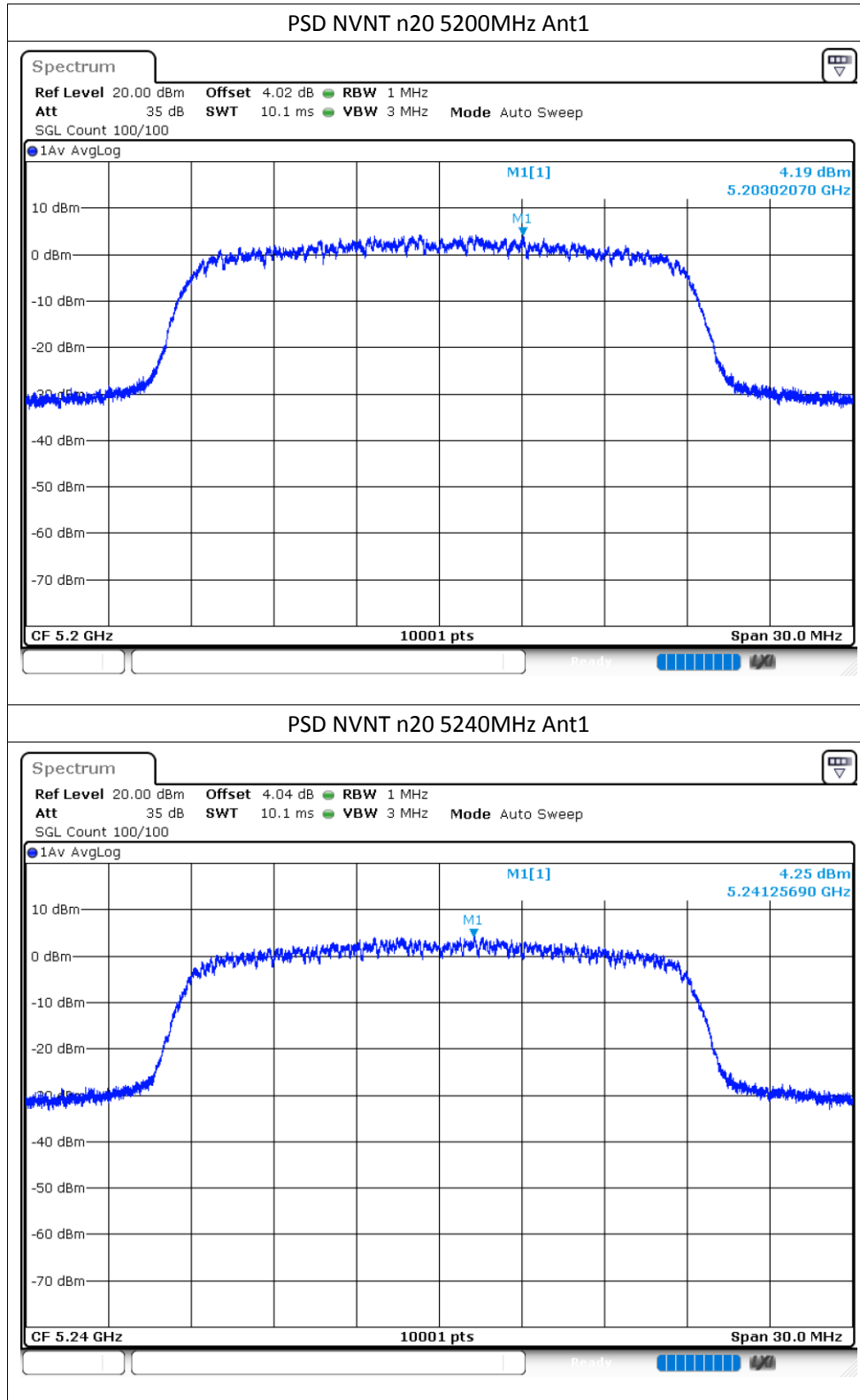


### PSD NVNT a 5240MHz Ant1

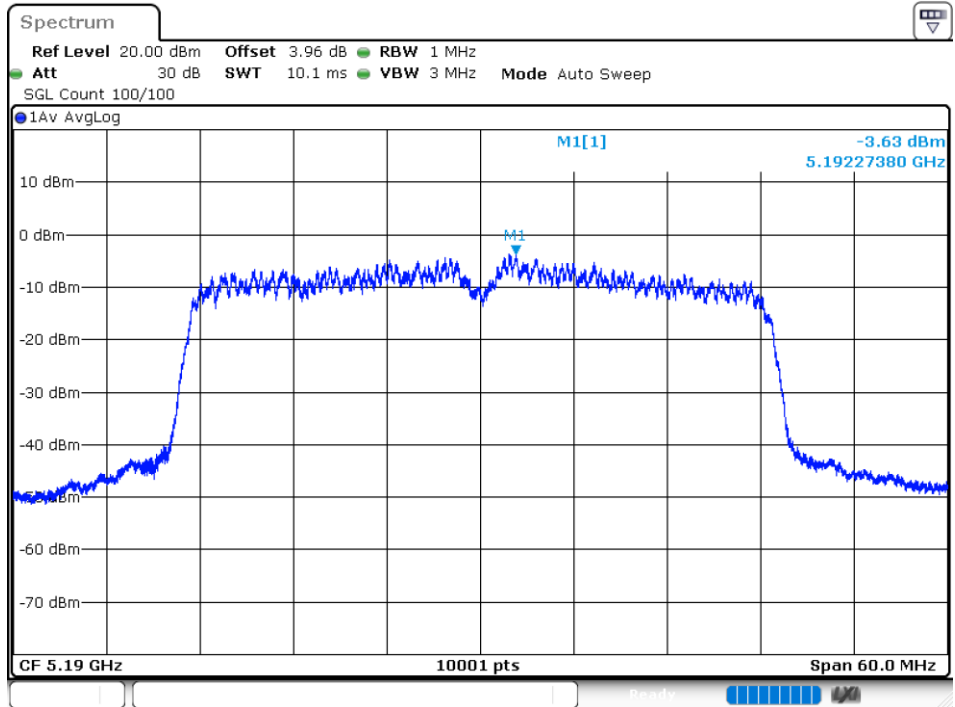


### PSD NVNT n20 5180MHz Ant1

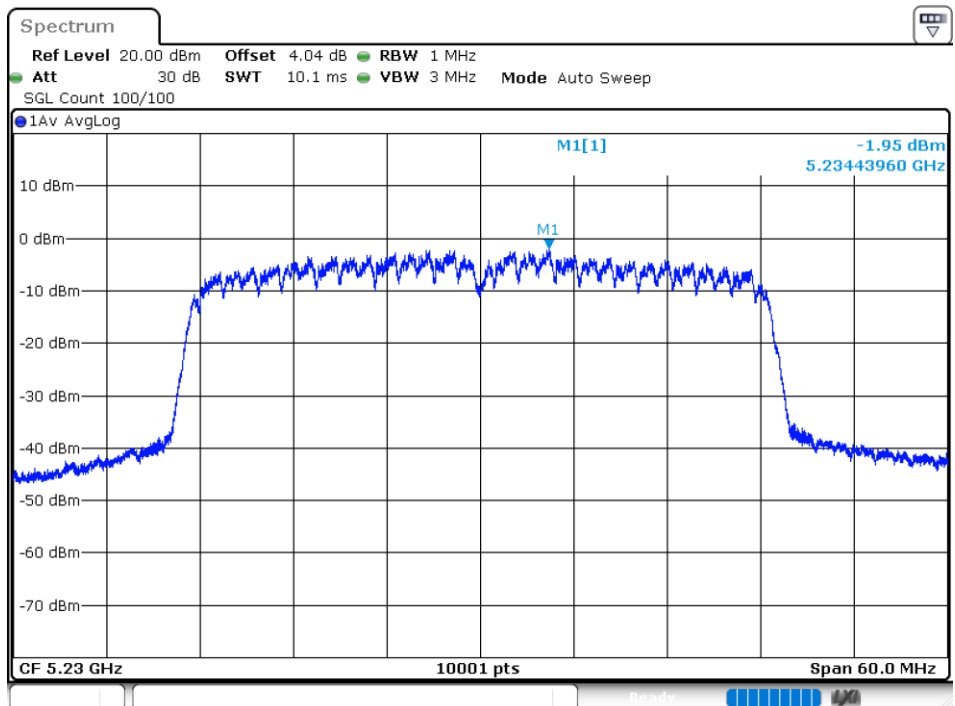




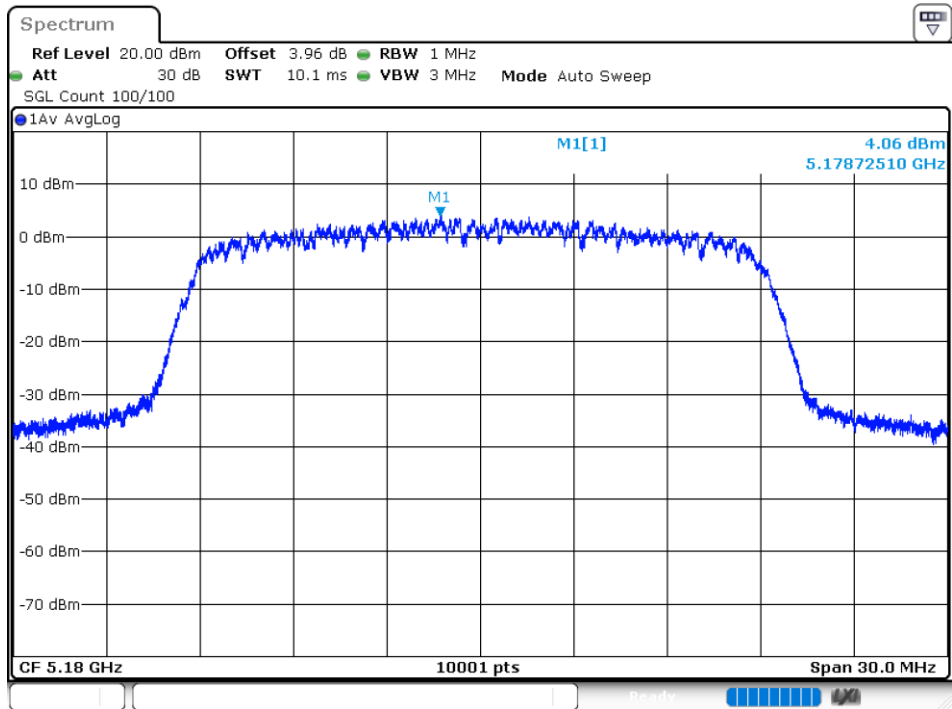
PSD NVNT n40 5190MHz Ant1



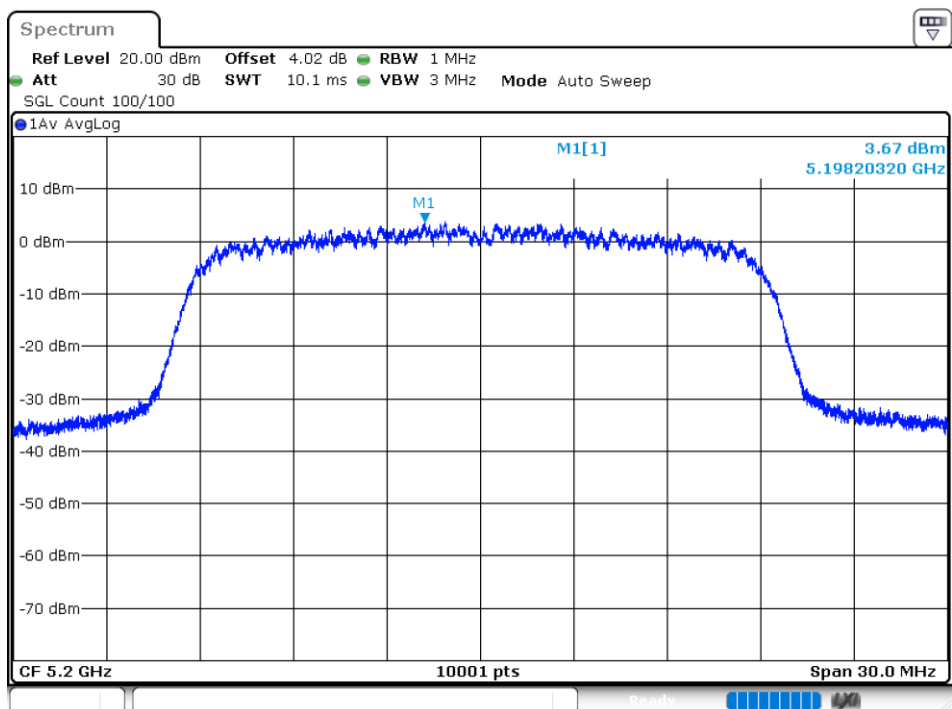
PSD NVNT n40 5230MHz Ant1

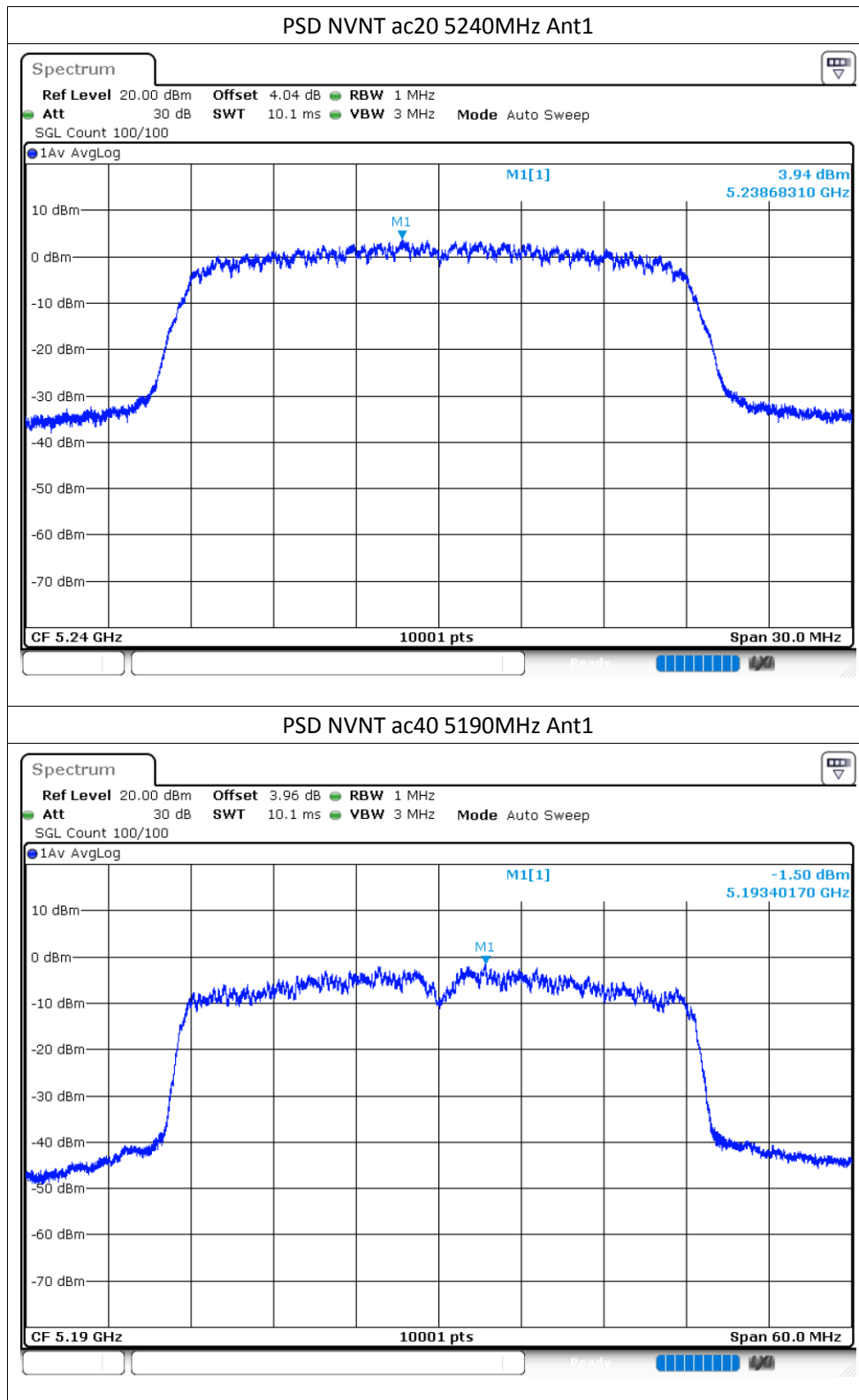


PSD NVNT ac20 5180MHz Ant1



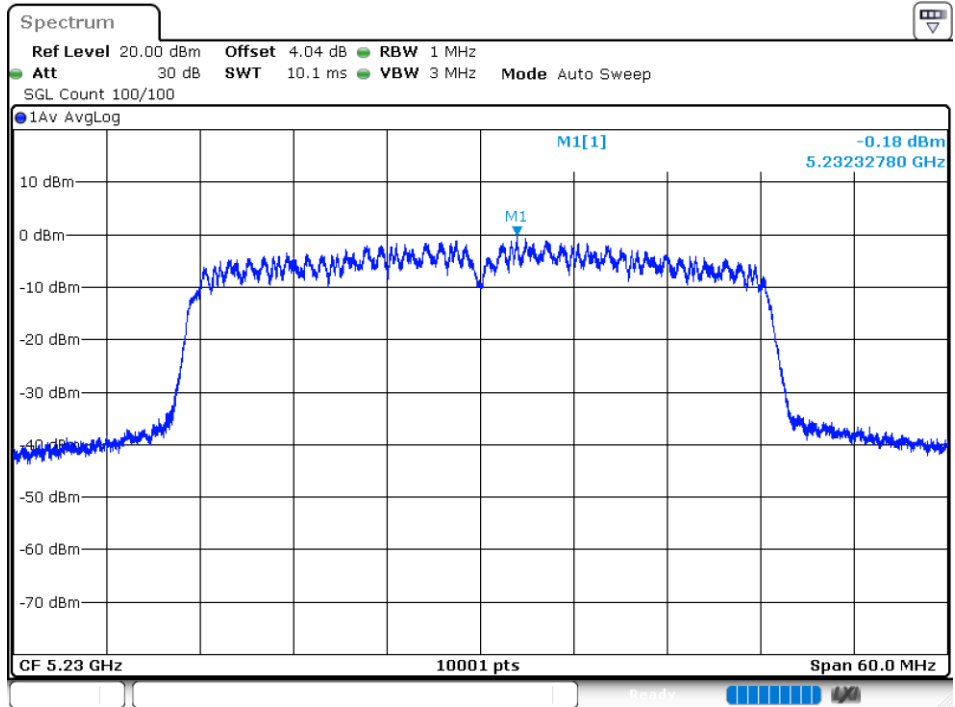
PSD NVNT ac20 5200MHz Ant1



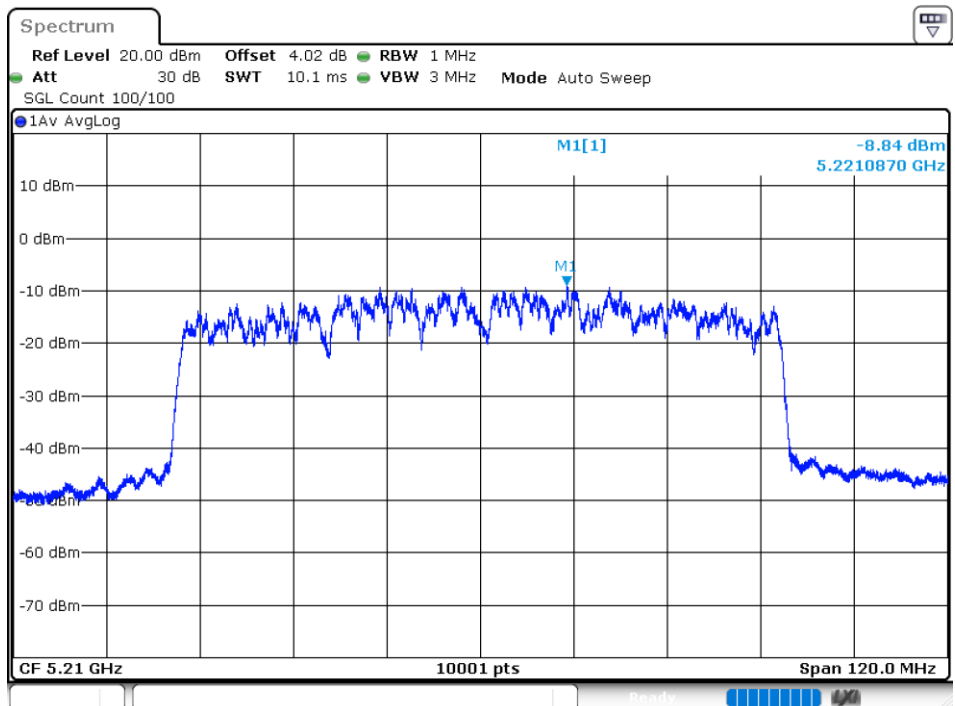




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



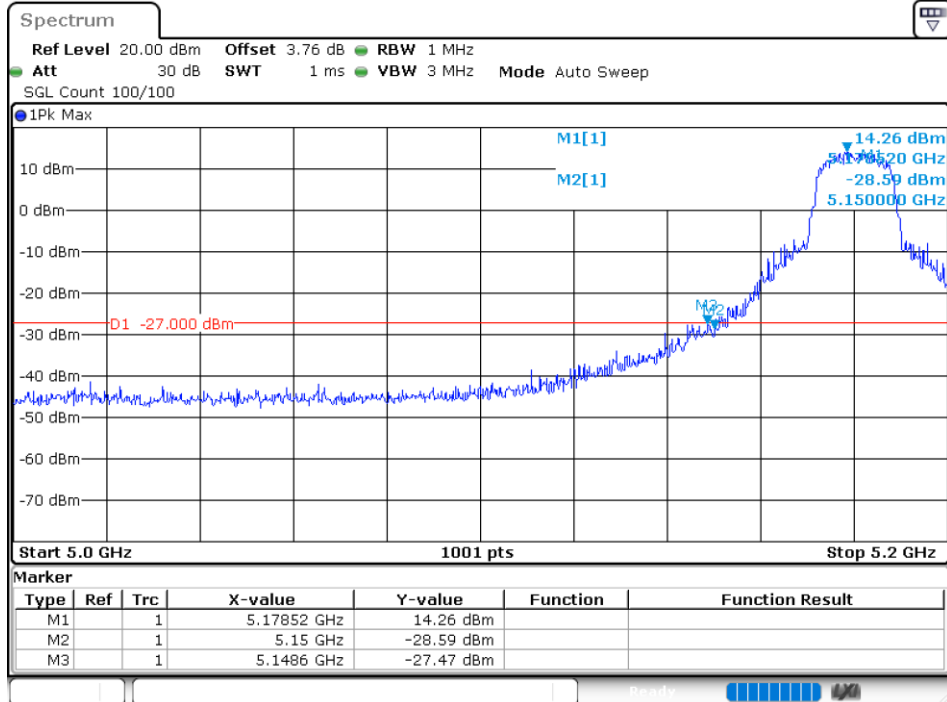
## Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | -27.47          | -27         | Pass    |
| NVNT      | a    | 5240            | Ant1    | -41.75          | -27         | Pass    |
| NVNT      | n20  | 5180            | Ant1    | -29.46          | -27         | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -43.36          | -27         | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -28.25          | -27         | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -43.34          | -27         | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | -29.31          | -27         | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -43.19          | -27         | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -29.23          | -27         | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -42.89          | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -31.05          | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -44.36          | -27         | Pass    |

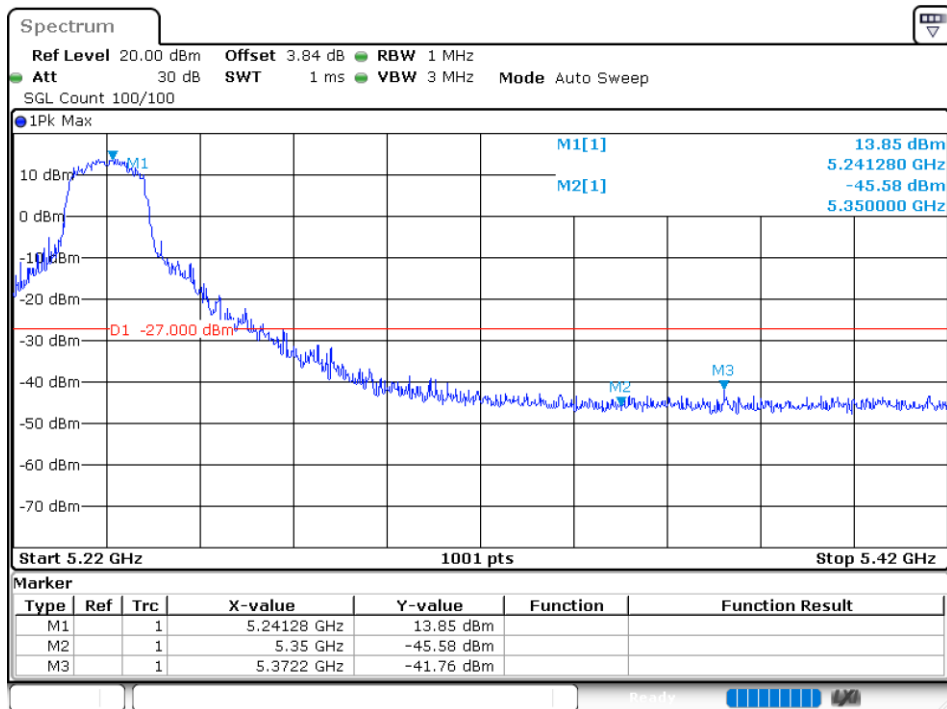
Note: This test has increased antenna gain.

### Test Graphs

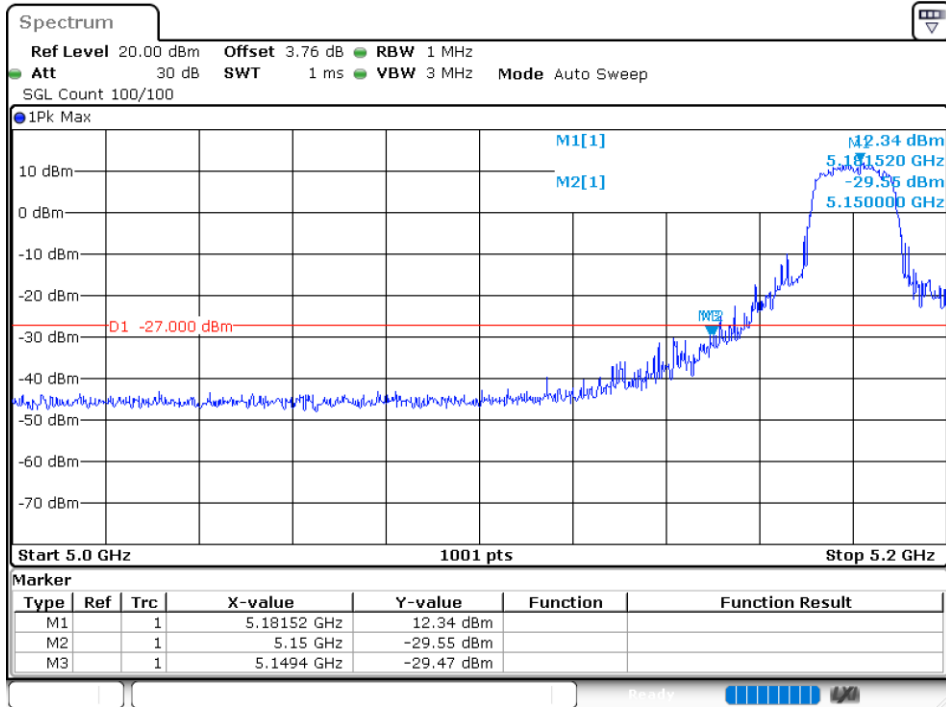
#### Band Edge NVNT a 5180MHz Low Ant1



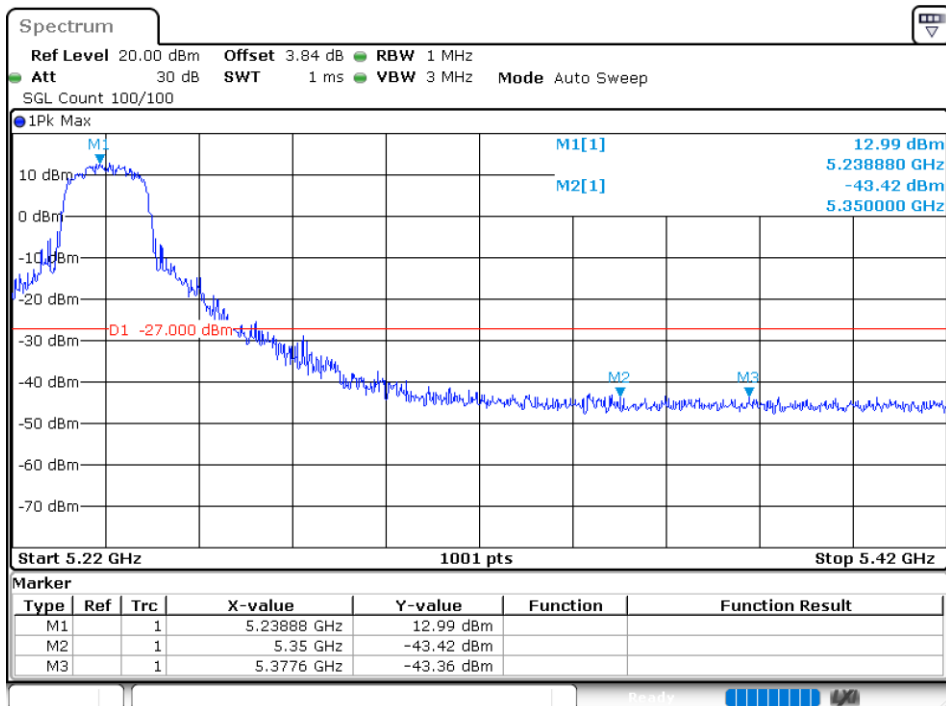
#### Band Edge NVNT a 5240MHz High Ant1



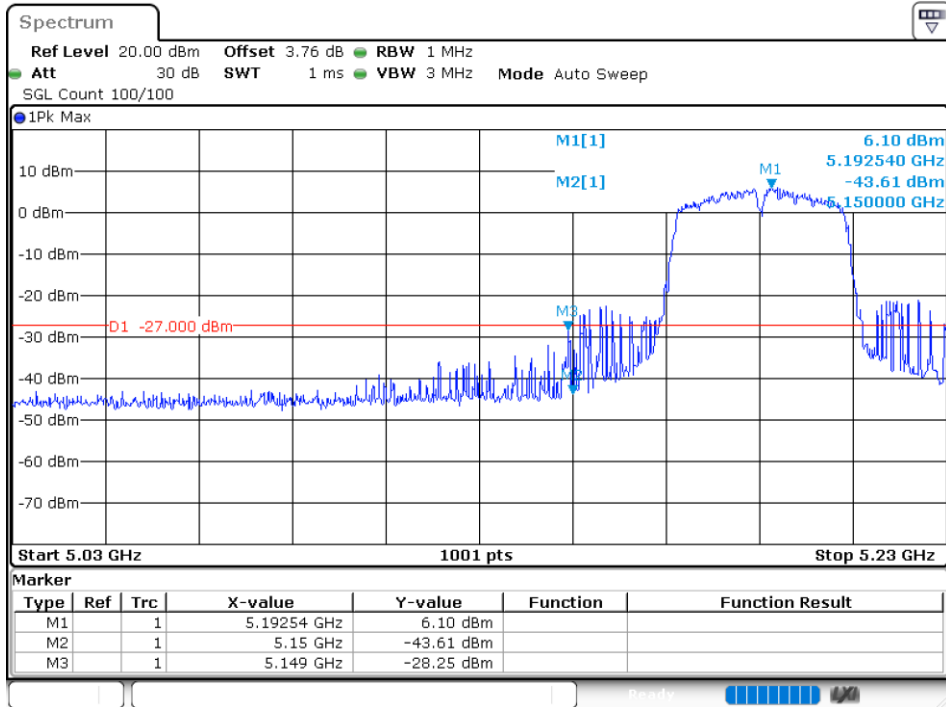
### Band Edge NVNT n20 5180MHz Low Ant1



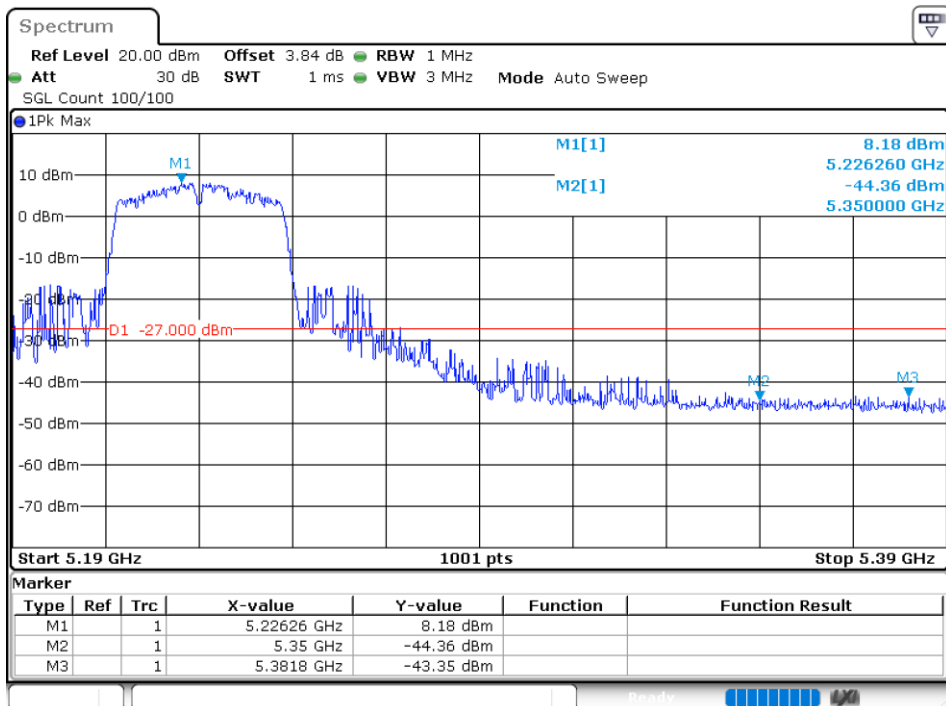
### Band Edge NVNT n20 5240MHz High Ant1



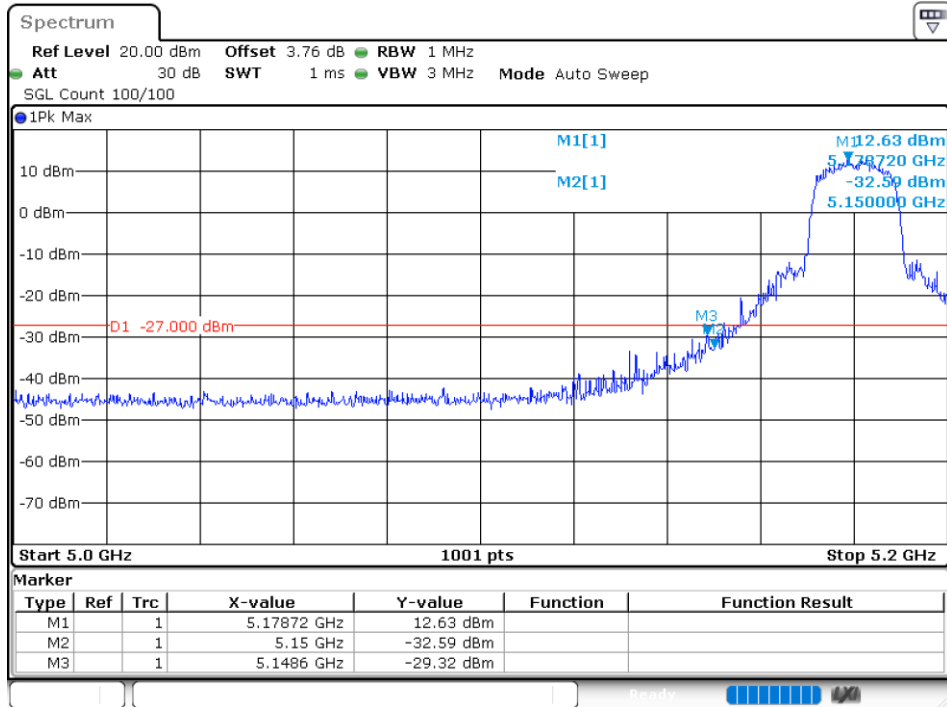
### Band Edge NVNT n40 5190MHz Low Ant1



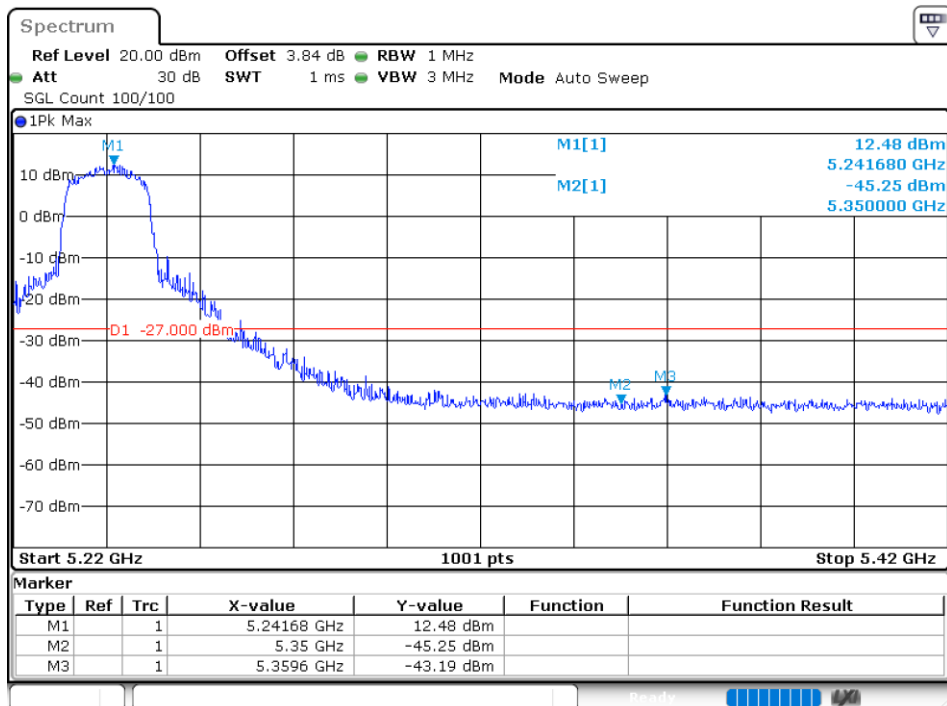
### Band Edge NVNT n40 5230MHz High Ant1



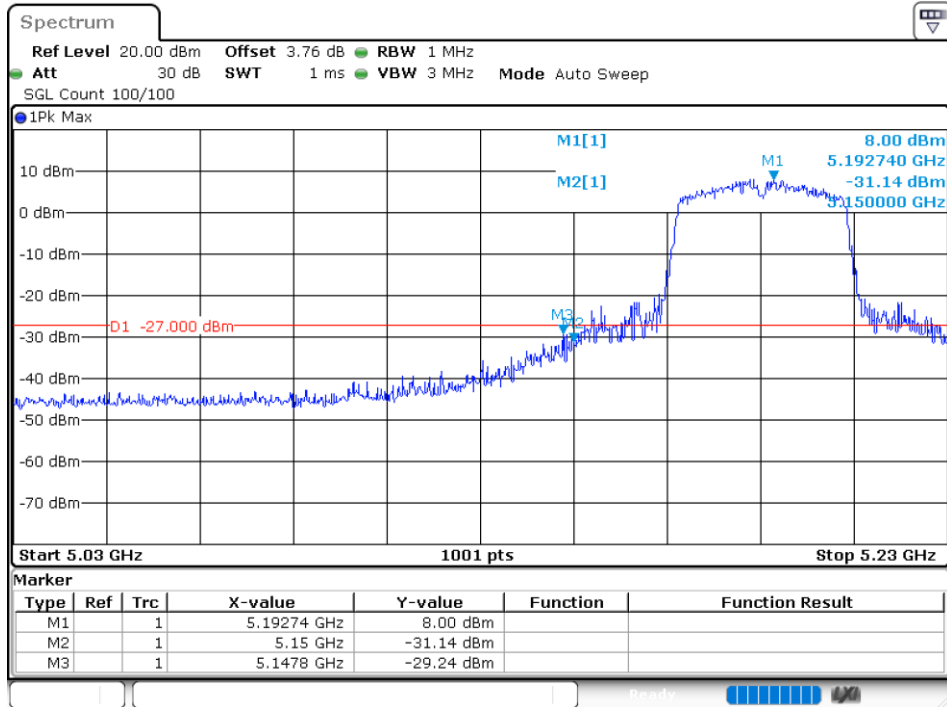
### Band Edge NVNT ac20 5180MHz Low Ant1



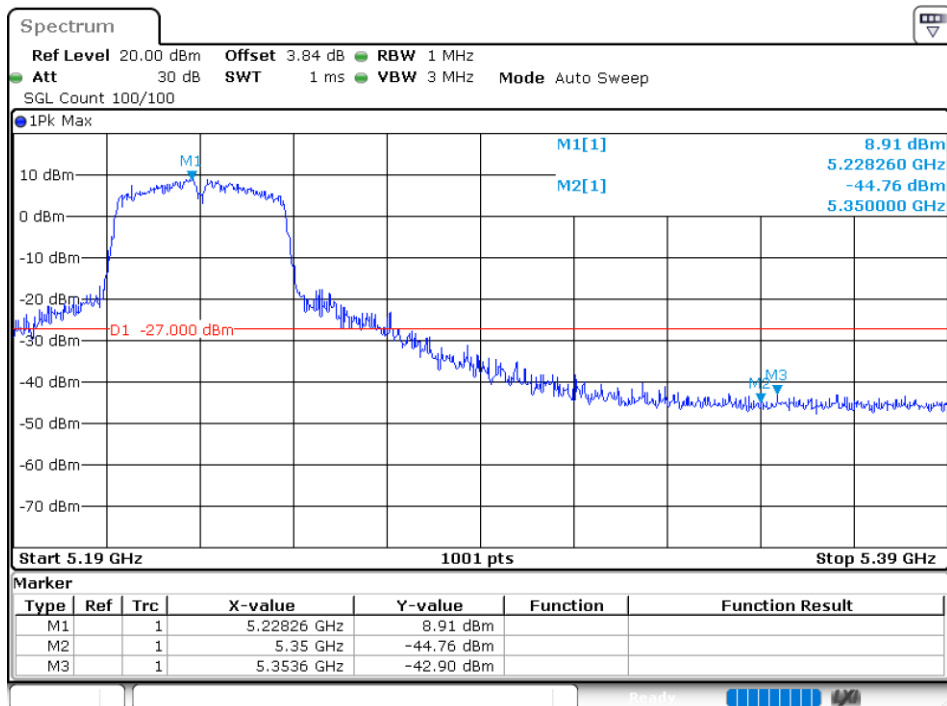
### Band Edge NVNT ac20 5240MHz High Ant1



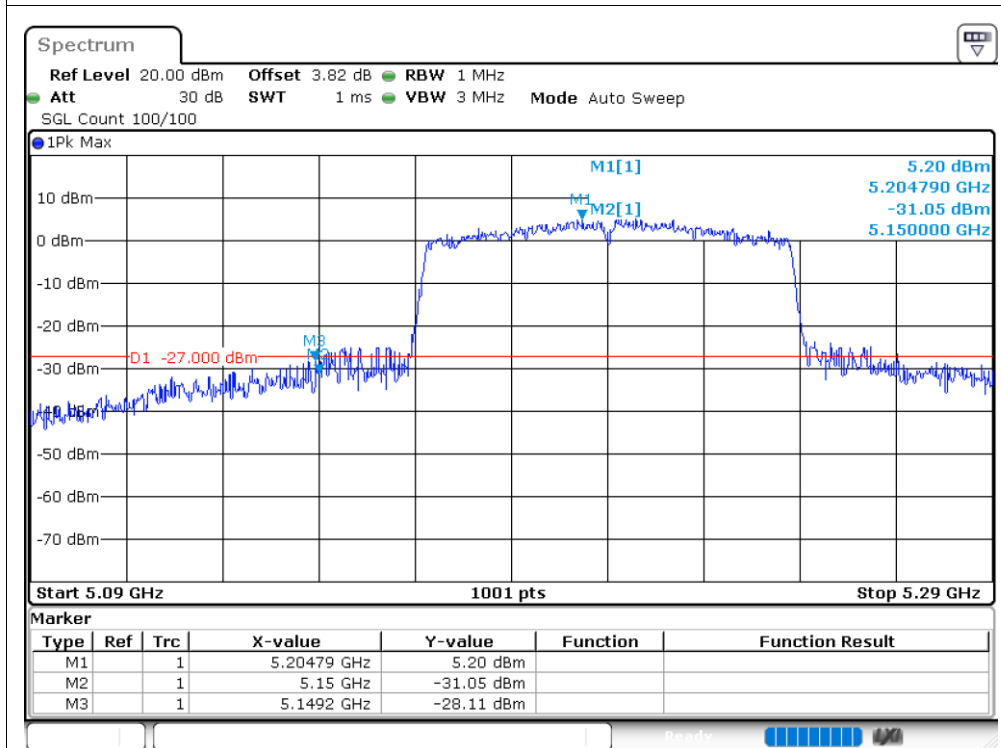
Band Edge NVNT ac40 5190MHz Low Ant1



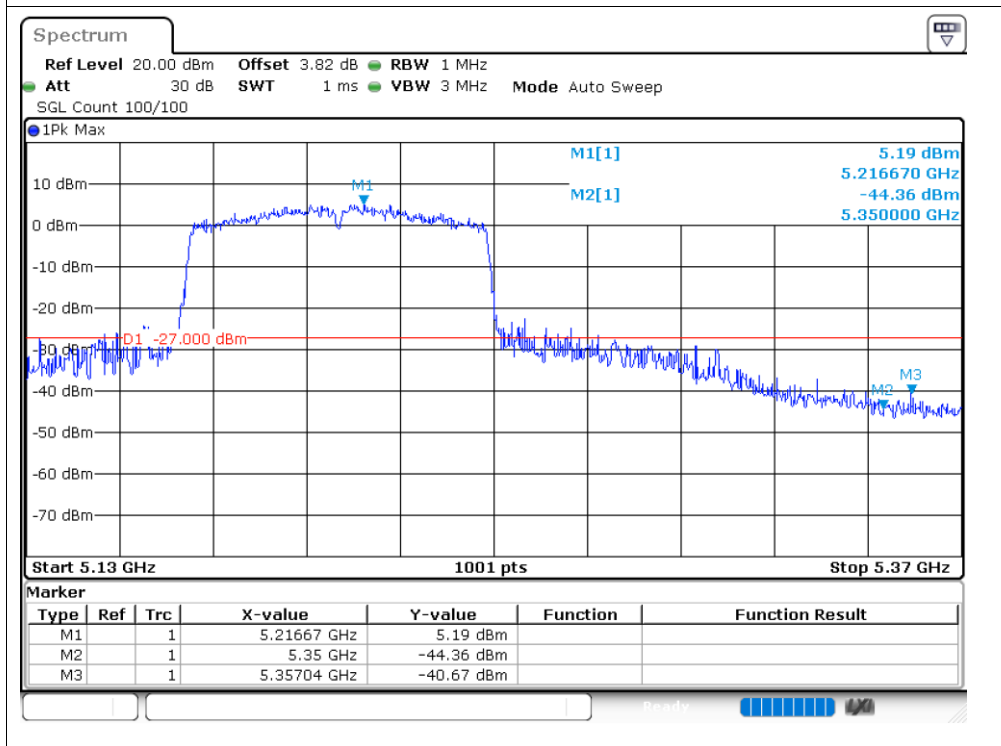
Band Edge NVNT ac40 5230MHz High Ant1



### Band Edge NVNT ac80 5210MHz Low Ant1



### Band Edge NVNT ac80 5210MHz High Ant1





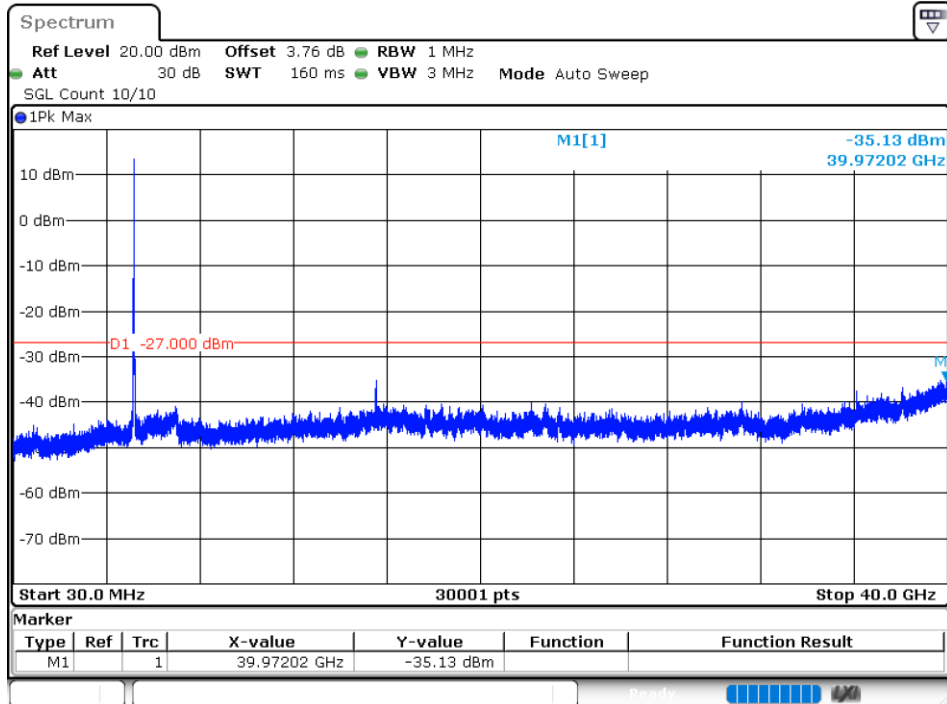
## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | -35.12          | -27         | Pass    |
| NVNT      | a    | 5200            | Ant1    | -35.29          | -27         | Pass    |
| NVNT      | a    | 5240            | Ant1    | -35.11          | -27         | Pass    |
| NVNT      | n20  | 5180            | Ant1    | -33.63          | -27         | Pass    |
| NVNT      | n20  | 5200            | Ant1    | -33.76          | -27         | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -34.37          | -27         | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -35.01          | -27         | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -34.63          | -27         | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | -33.47          | -27         | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | -34.39          | -27         | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -34.52          | -27         | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -34.19          | -27         | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -34.33          | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -33.72          | -27         | Pass    |

Note: This test has increased antenna gain .

## Test Graphs

### Tx. Spurious NVNT a 5180MHz Ant1 Emission



### Tx. Spurious NVNT a 5200MHz Ant1 Emission

