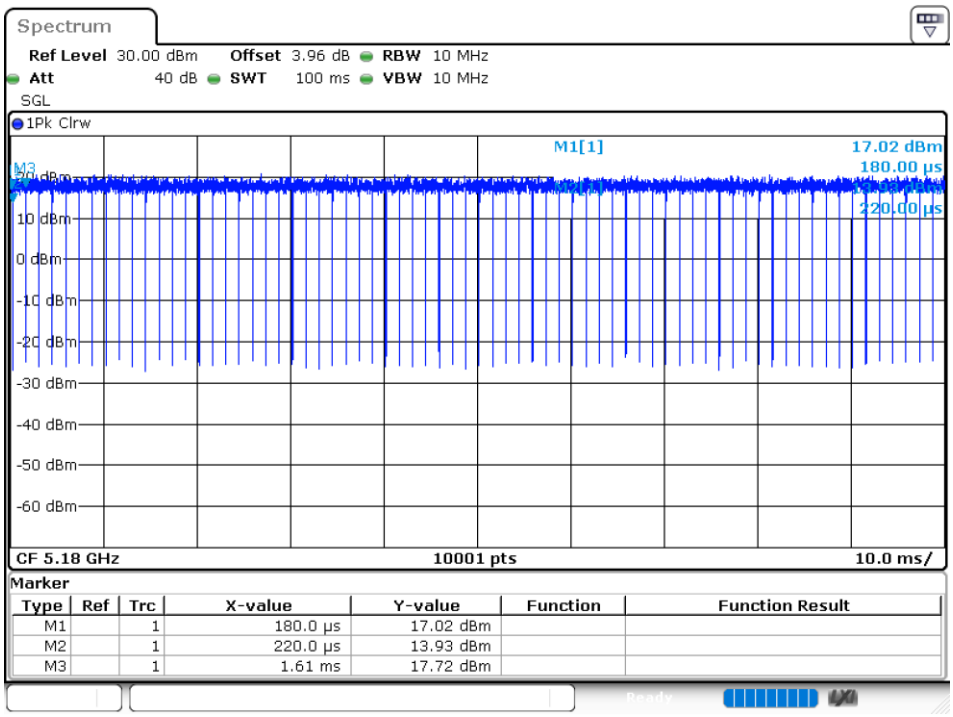
**WIFI 5.2G:**

# Duty Cycle

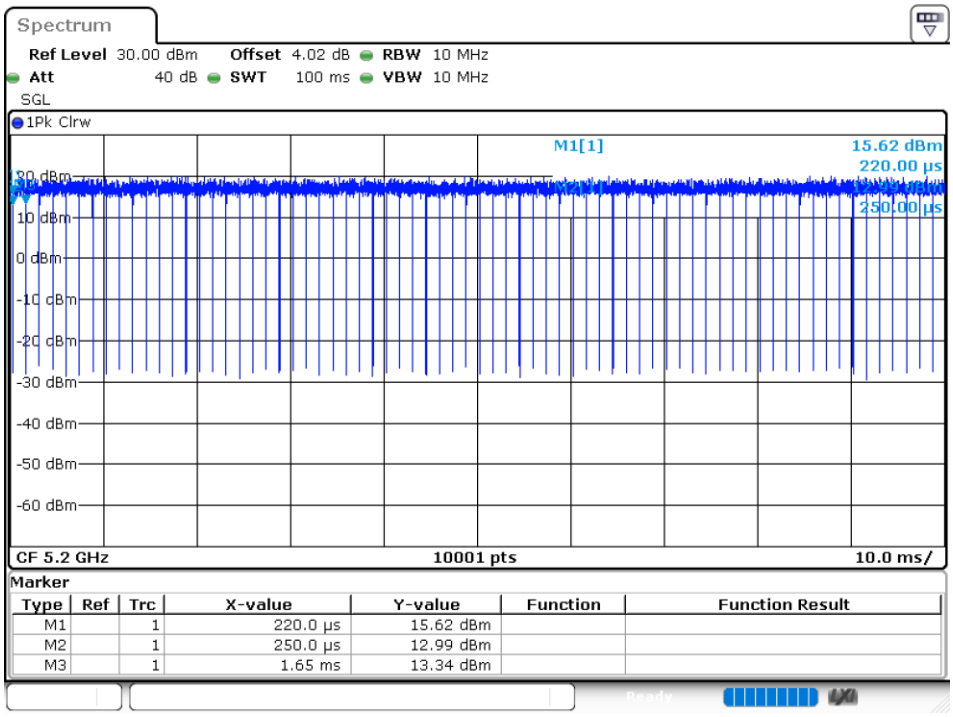
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 98.19 | 0.08 | 0.72 |
| NVNT | a | 5200 | Ant1 | 98.2 | 0.08 | 0.71 |
| NVNT | a | 5240 | Ant1 | 98.2 | 0.08 | 0.72 |
| NVNT | n20 | 5180 | Ant1 | 98.05 | 0.09 | 0.77 |
| NVNT | n20 | 5200 | Ant1 | 98.06 | 0.09 | 0.77 |
| NVNT | n20 | 5240 | Ant1 | 98.06 | 0.09 | 0.77 |
| NVNT | n40 | 5190 | Ant1 | 96.33 | 0.16 | 1.54 |
| NVNT | n40 | 5230 | Ant1 | 96.32 | 0.16 | 1.56 |
| NVNT | ac20 | 5180 | Ant1 | 98.07 | 0.08 | 0.76 |
| NVNT | ac20 | 5200 | Ant1 | 98.06 | 0.09 | 0.76 |
| NVNT | ac20 | 5240 | Ant1 | 98.07 | 0.08 | 0.76 |
| NVNT | ac40 | 5190 | Ant1 | 96.37 | 0.16 | 1.52 |
| NVNT | ac40 | 5230 | Ant1 | 96.36 | 0.16 | 1.54 |
| NVNT | ac80 | 5210 | Ant1 | 93.17 | 0.31 | 3.13 |

Test Graphs

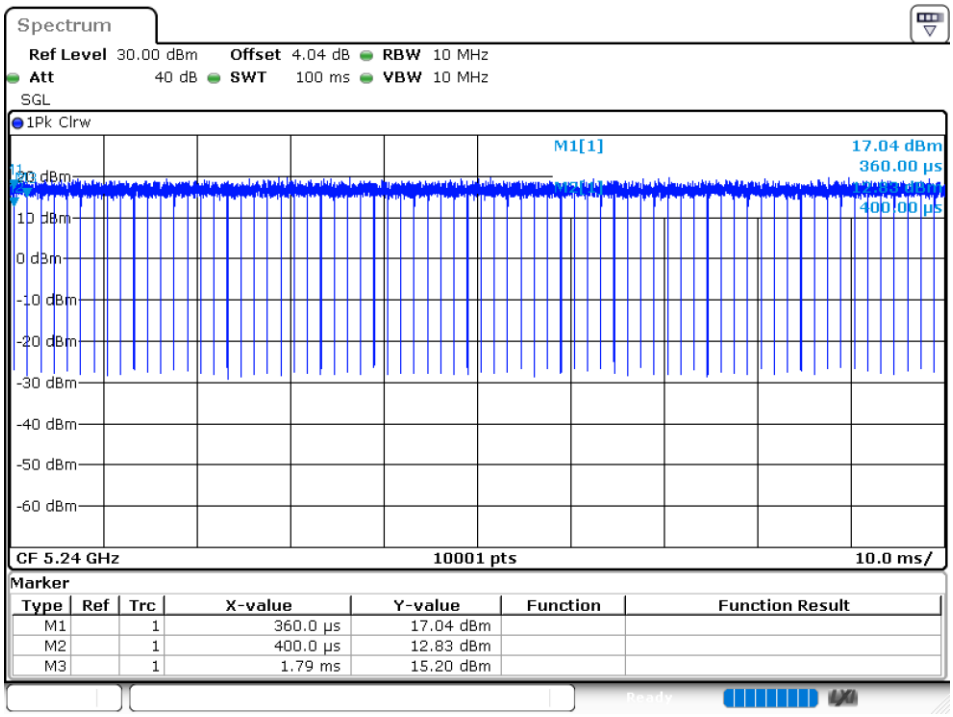
Duty Cycle NVNT a 5180MHz Ant1



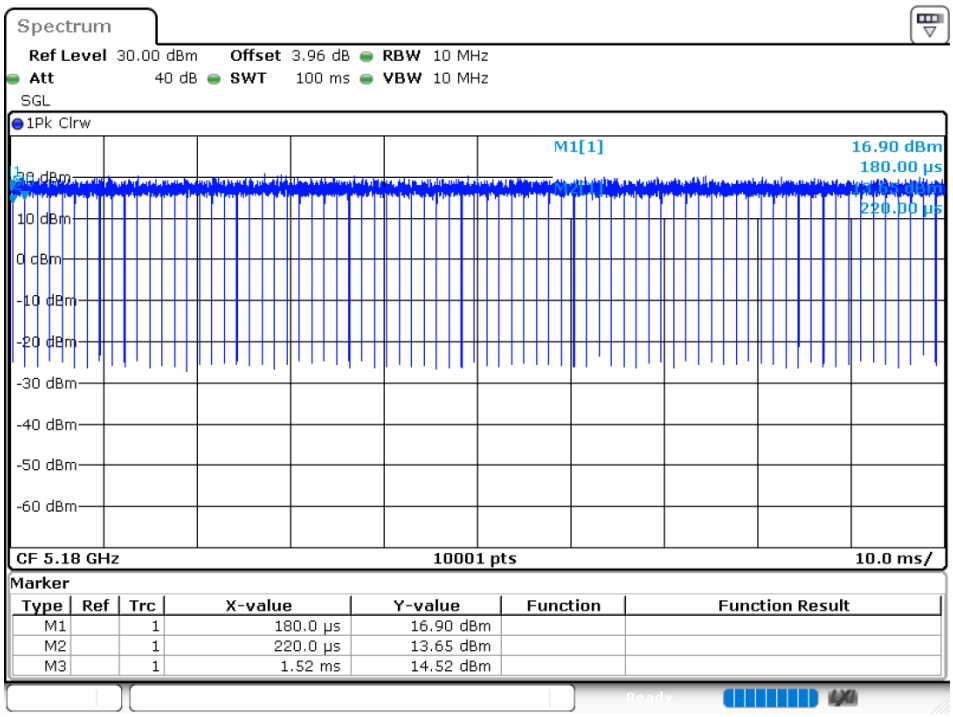

Duty Cycle NVNT a 5200MHz Ant1



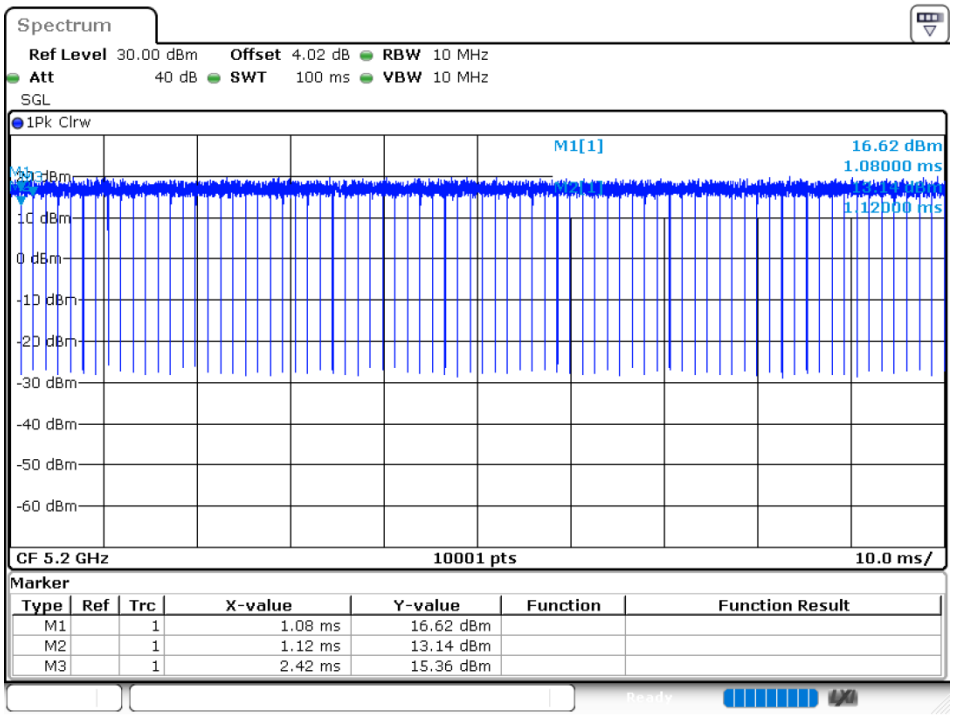
Duty Cycle NVNT a 5240MHz Ant1



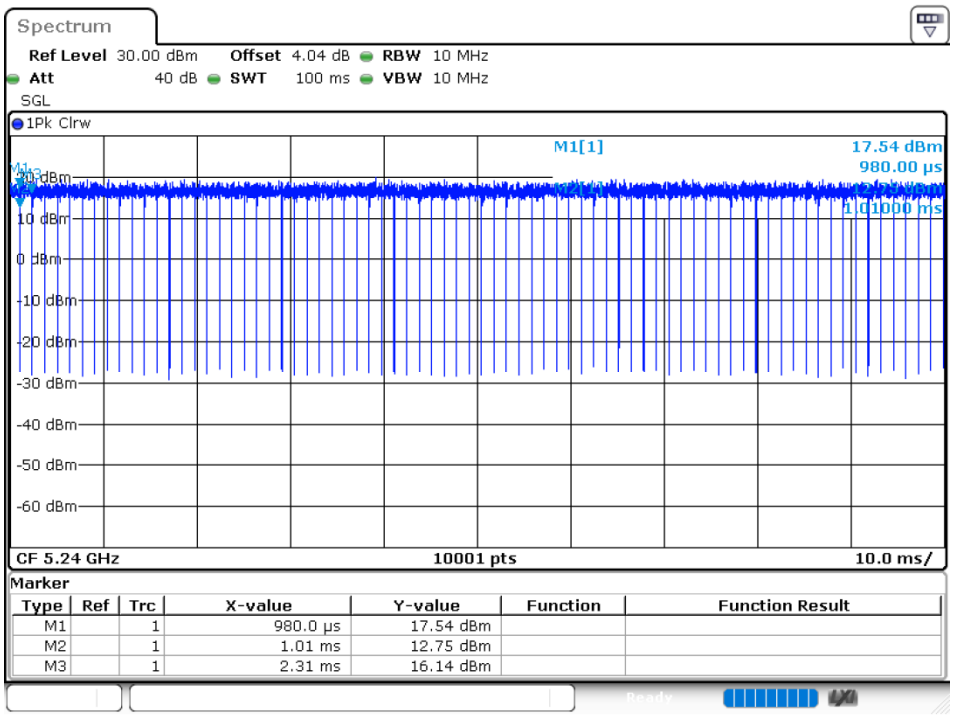

Duty Cycle NVNT n20 5180MHz Ant1



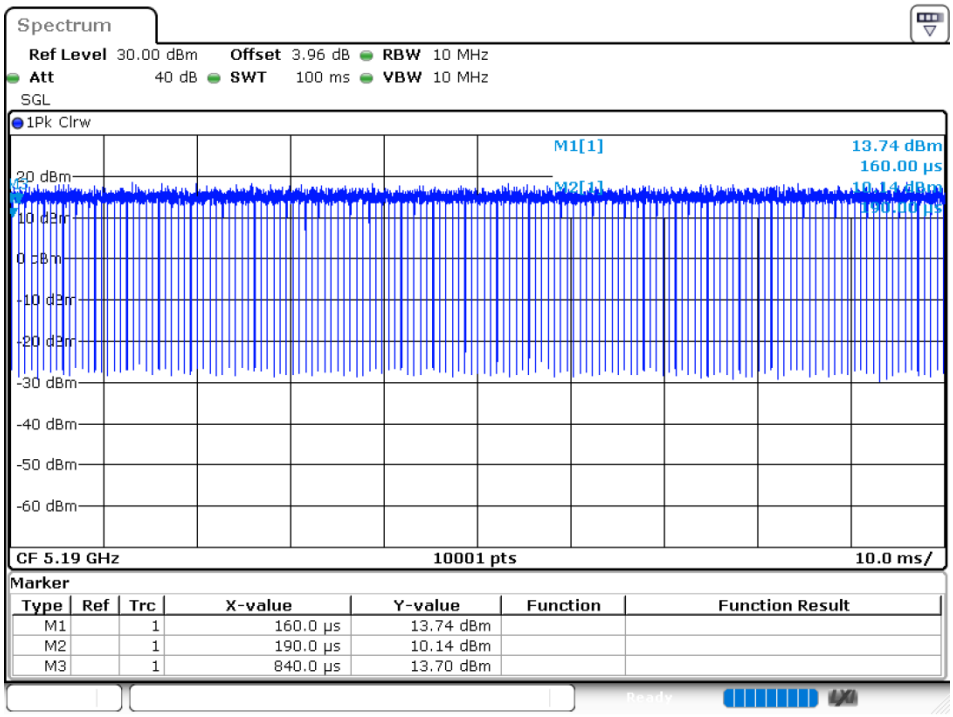
Duty Cycle NVNT n20 5200MHz Ant1



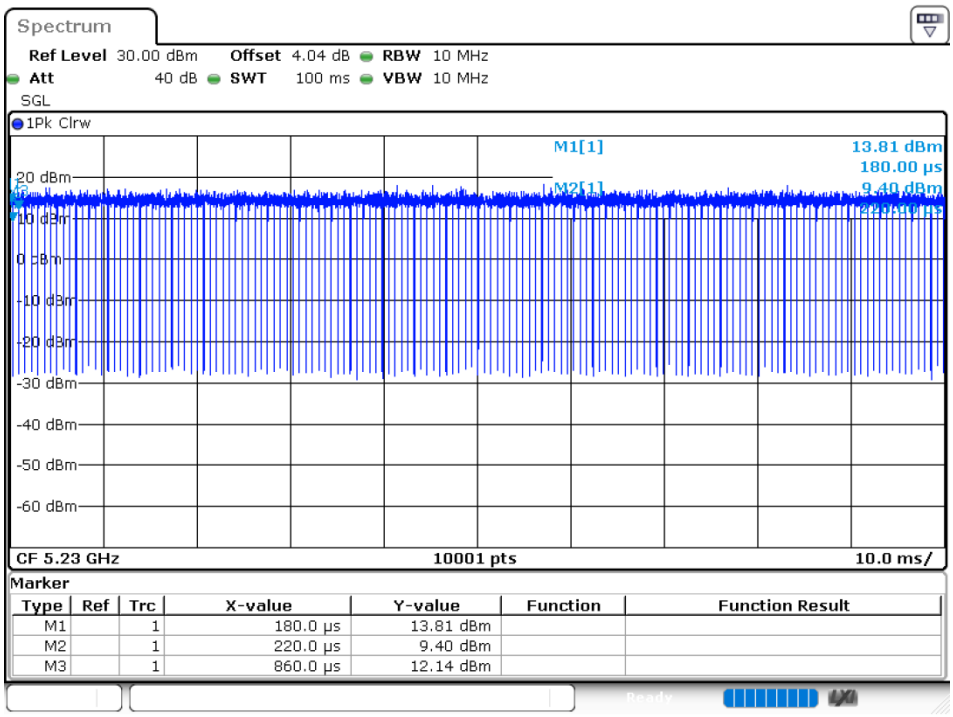

Duty Cycle NVNT n20 5240MHz Ant1



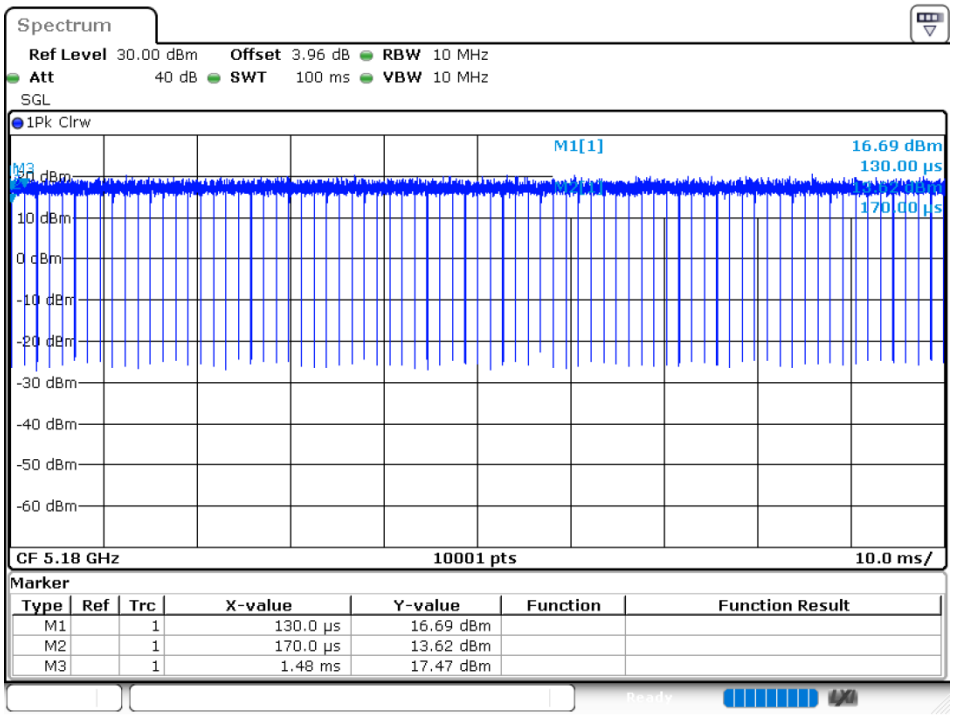
Duty Cycle NVNT n40 5190MHz Ant1



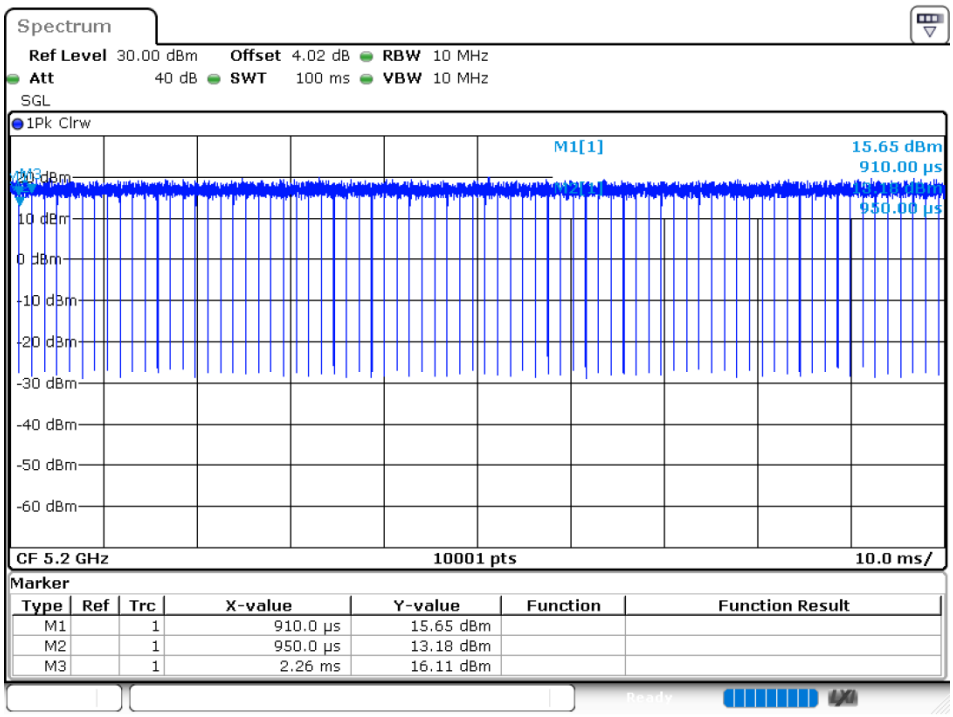

Duty Cycle NVNT n40 5230MHz Ant1



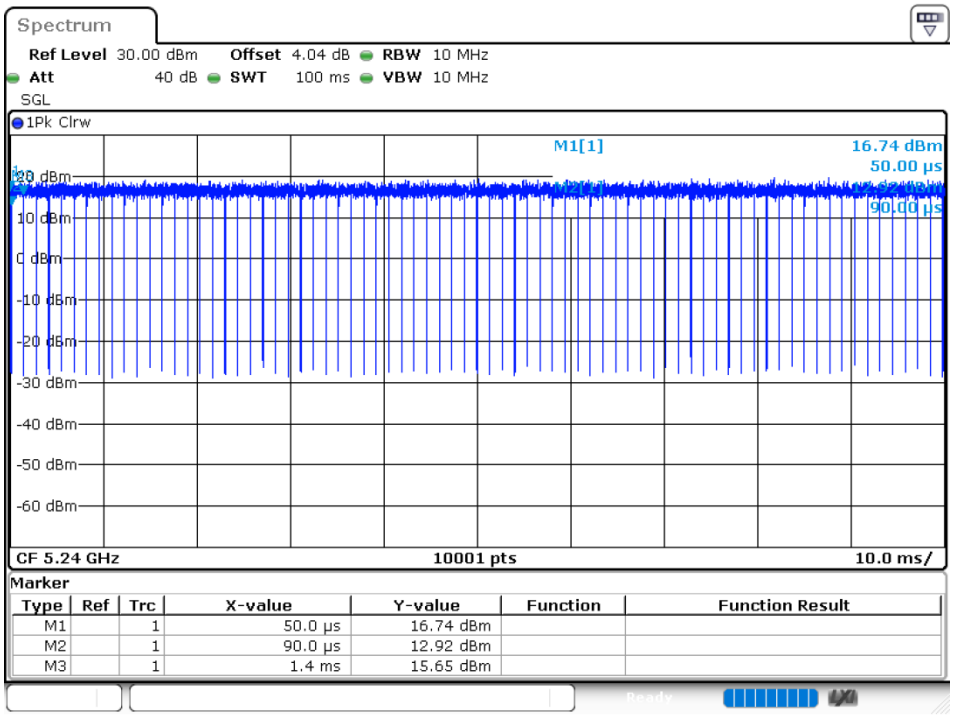
Duty Cycle NVNT ac20 5180MHz Ant1



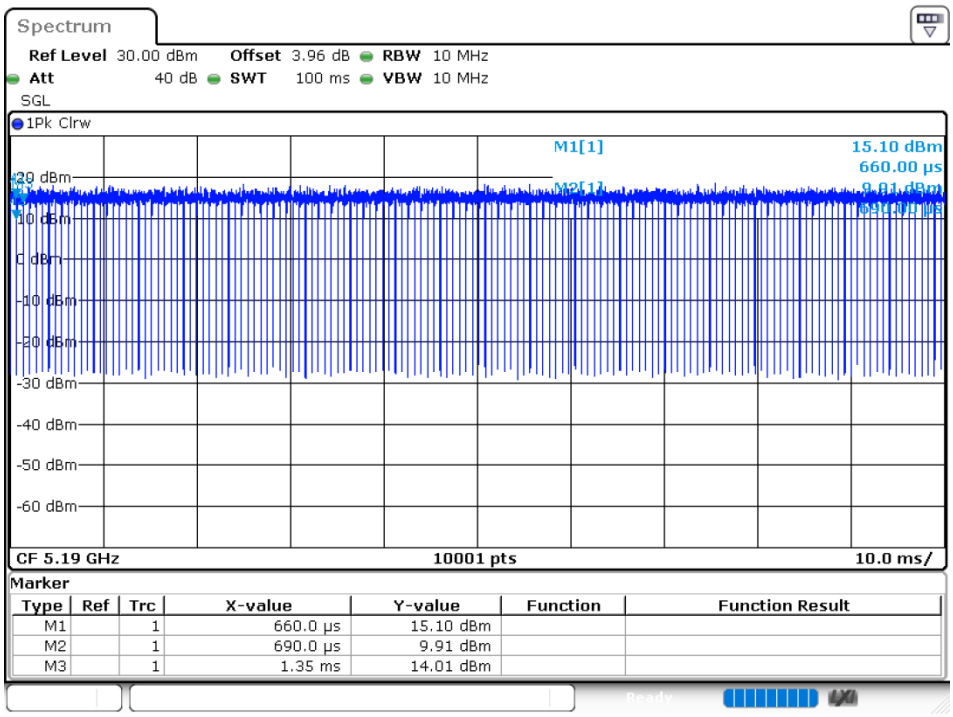

Duty Cycle NVNT ac20 5200MHz Ant1



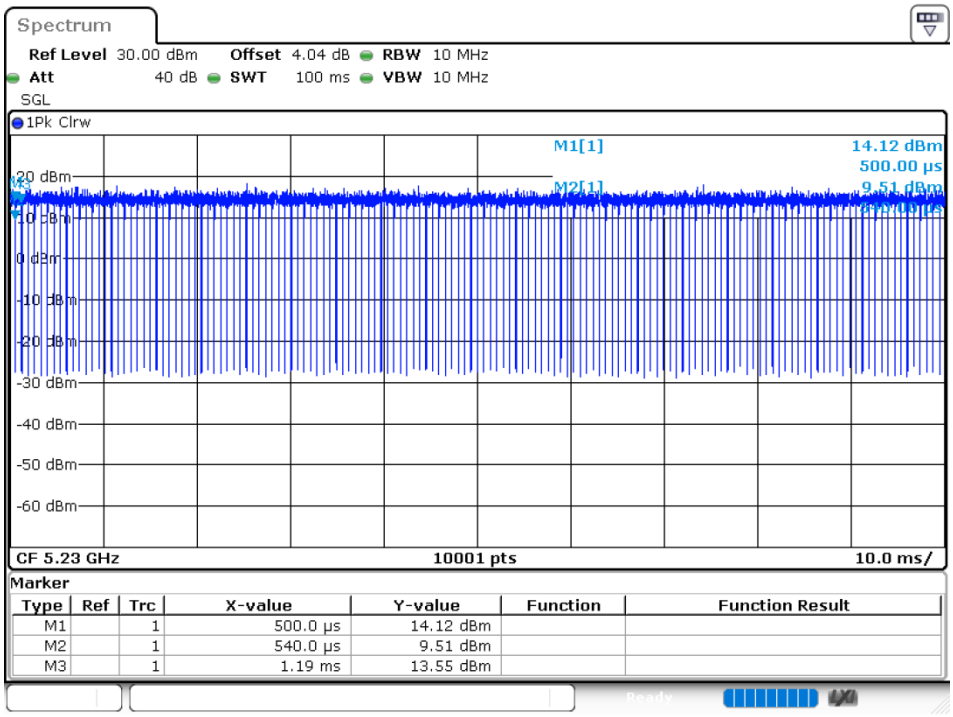
Duty Cycle NVNT ac20 5240MHz Ant1



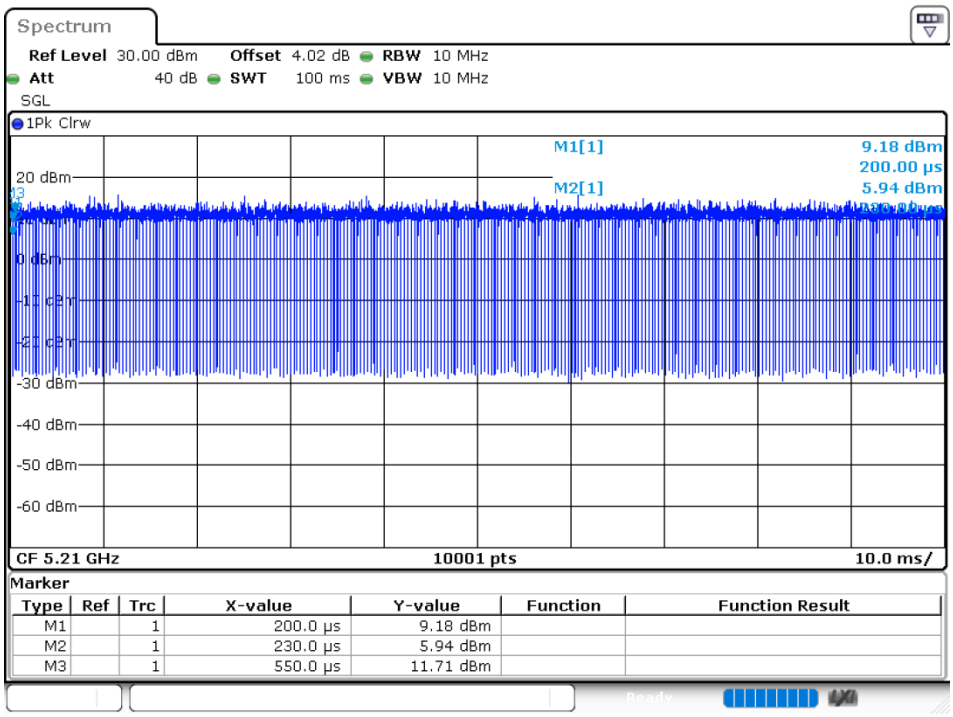

Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1




Duty Cycle NVNT ac80 5210MHz Ant1



# Maximum Conducted Output Power

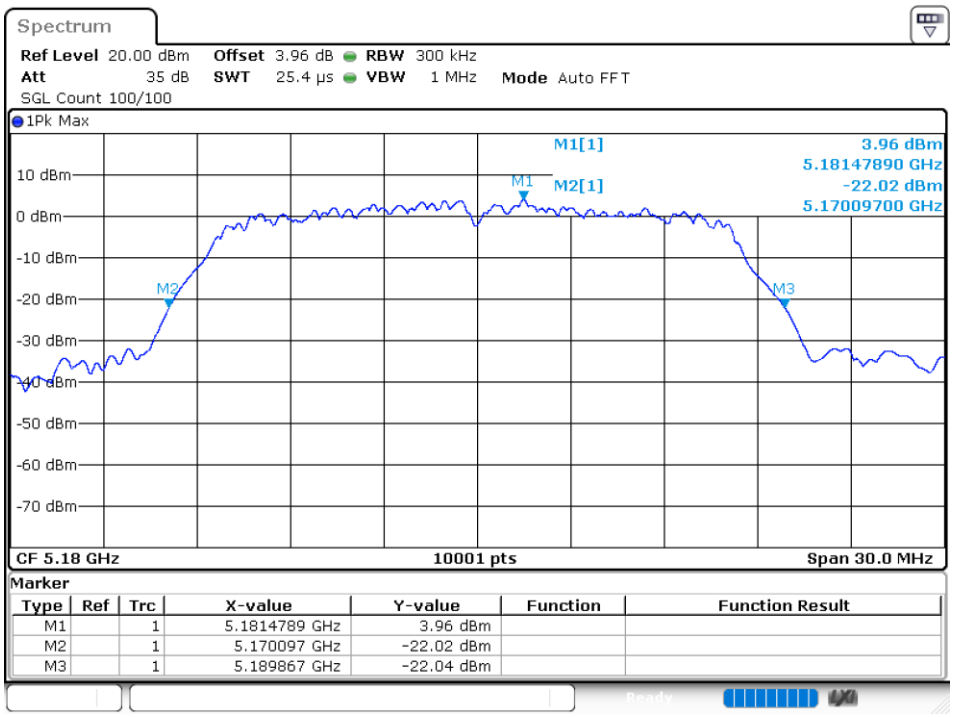
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 12.58 | 24 | Pass |
| NVNT | a | 5200 | Ant1 | 12.17 | 24 | Pass |
| NVNT | a | 5240 | Ant1 | 12.33 | 24 | Pass |
| NVNT | n20 | 5180 | Ant1 | 12.39 | 24 | Pass |
| NVNT | n20 | 5200 | Ant1 | 12.38 | 24 | Pass |
| NVNT | n20 | 5240 | Ant1 | 12.52 | 24 | Pass |
| NVNT | n40 | 5190 | Ant1 | 12.42 | 24 | Pass |
| NVNT | n40 | 5230 | Ant1 | 12.5 | 24 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 12.11 | 24 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 12.3 | 24 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 12.43 | 24 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 12.08 | 24 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 12.25 | 24 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 12.14 | 24 | Pass |

# -26dB Bandwidth

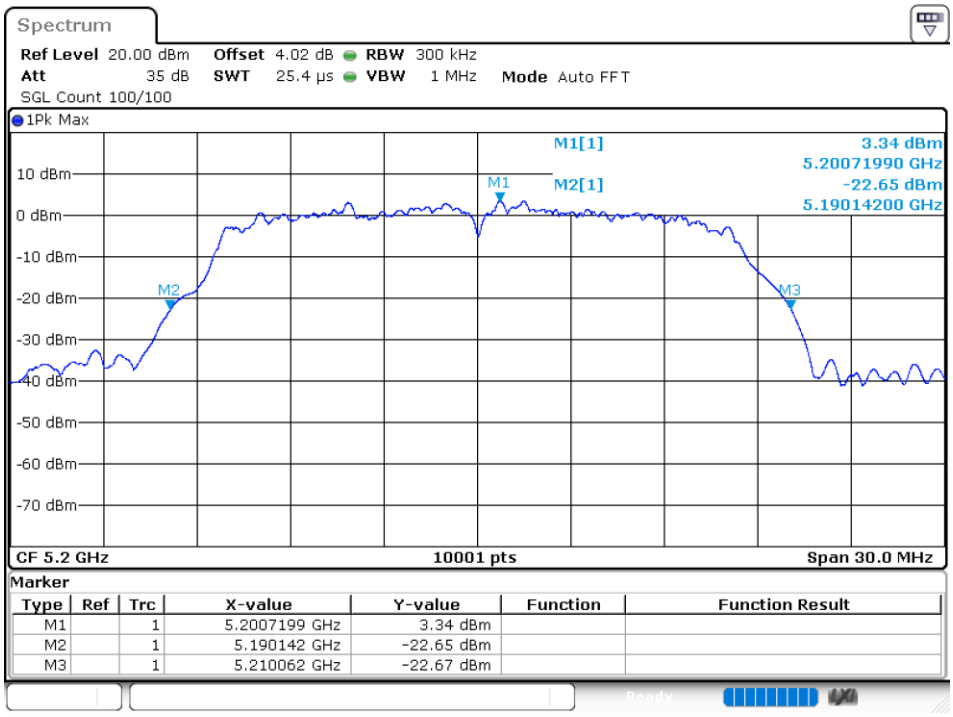
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 19.77 | Pass |
| NVNT | a | 5200 | Ant1 | 19.92 | Pass |
| NVNT | a | 5240 | Ant1 | 19.482 | Pass |
| NVNT | n20 | 5180 | Ant1 | 20.379 | Pass |
| NVNT | n20 | 5200 | Ant1 | 21.759 | Pass |
| NVNT | n20 | 5240 | Ant1 | 21.009 | Pass |
| NVNT | n40 | 5190 | Ant1 | 40.734 | Pass |
| NVNT | n40 | 5230 | Ant1 | 41.046 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 20.286 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 20.355 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 20.115 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 40.854 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 40.902 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 81.372 | Pass |

Test Graphs

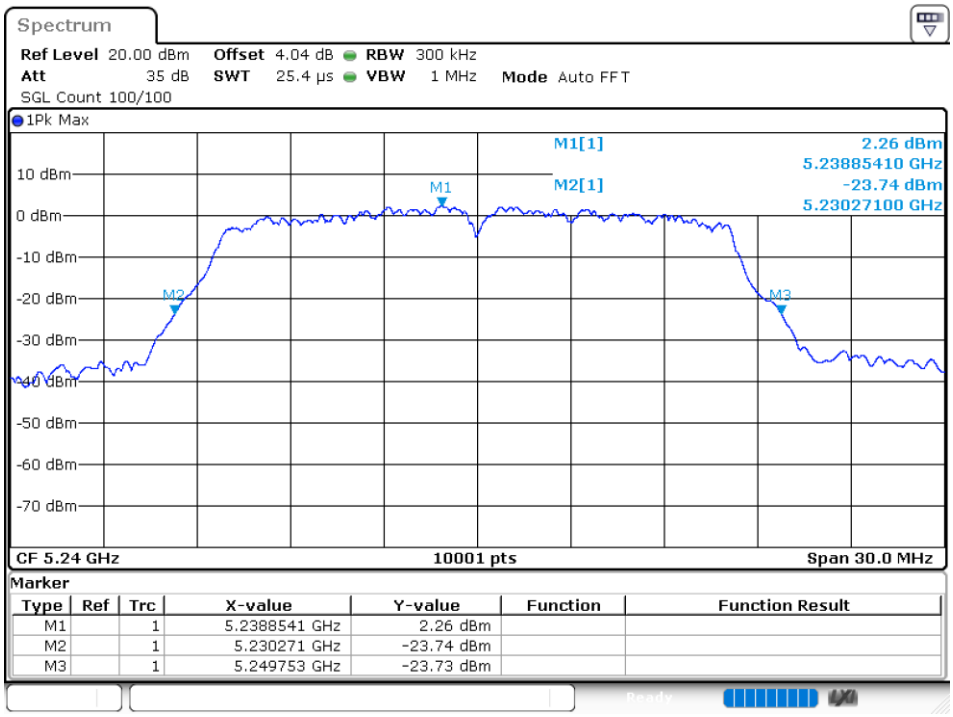
-26dB Bandwidth NVNT a 5180MHz Ant1



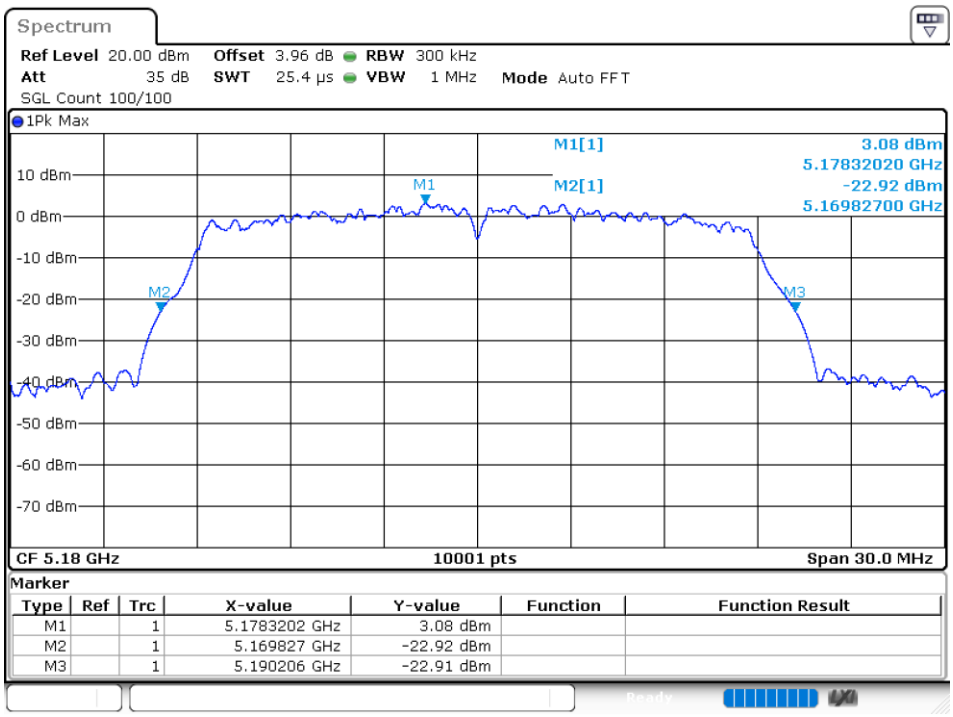

-26dB Bandwidth NVNT a 5200MHz Ant1



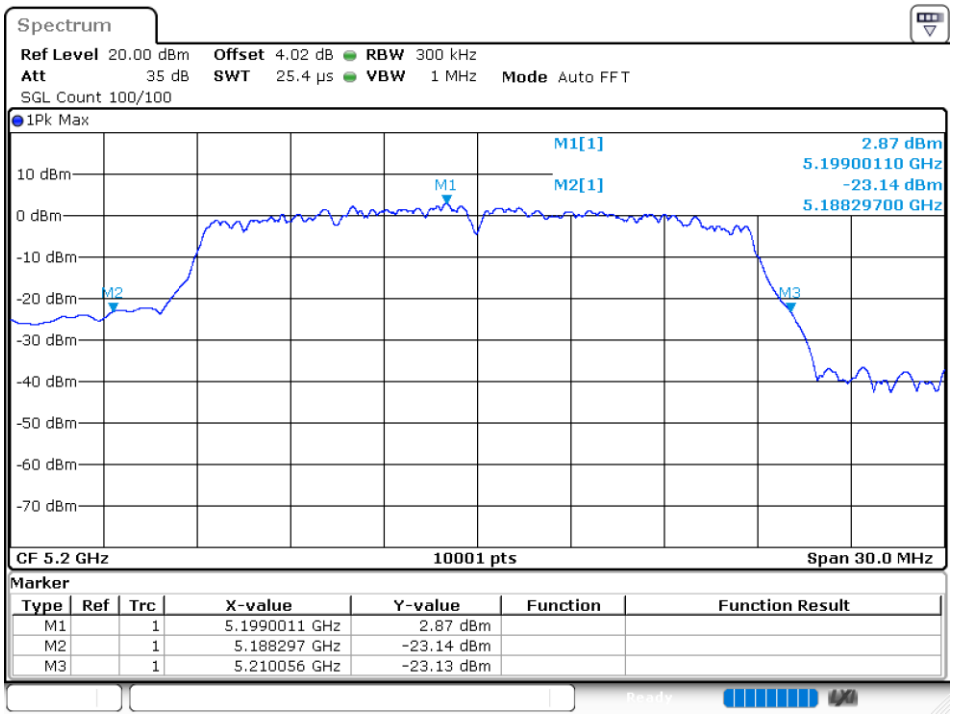
-26dB Bandwidth NVNT a 5240MHz Ant1



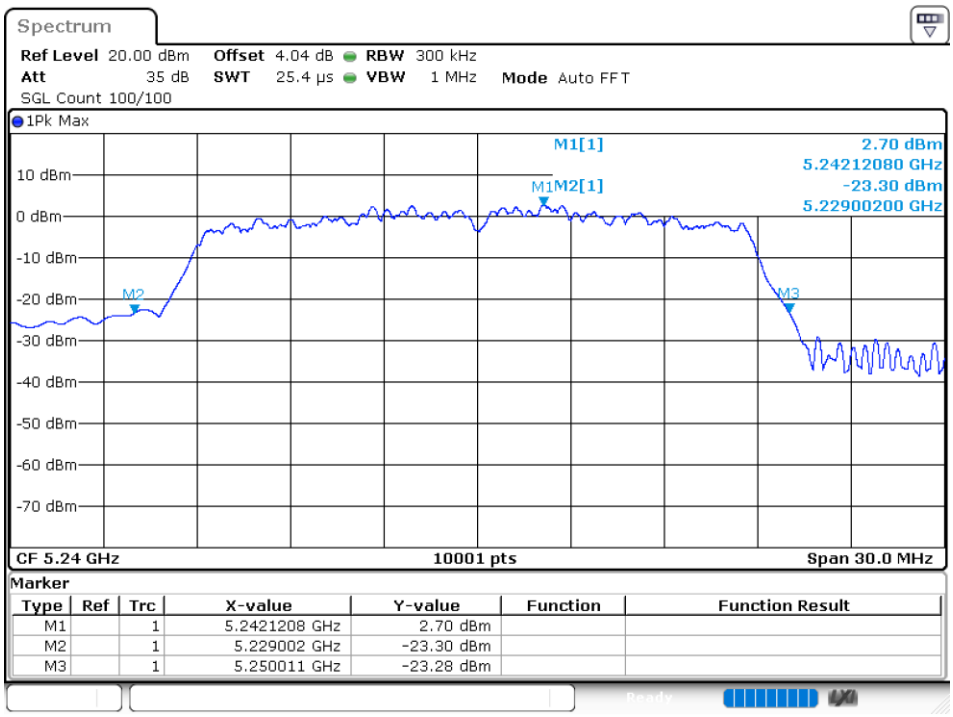

-26dB Bandwidth NVNT n20 5180MHz Ant1



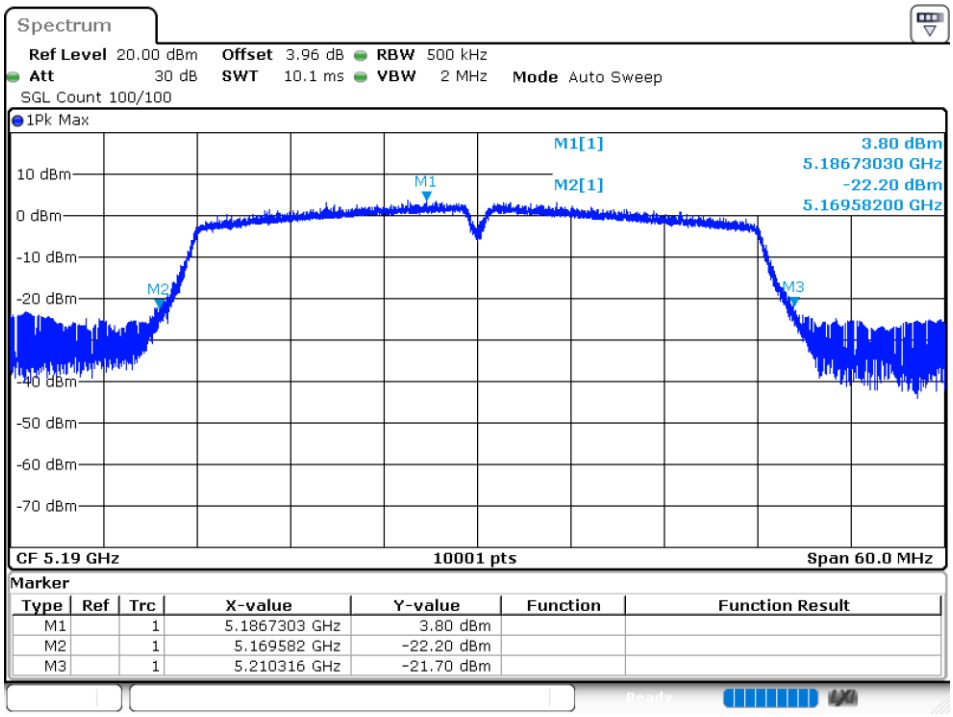
-26dB Bandwidth NVNT n20 5200MHz Ant1



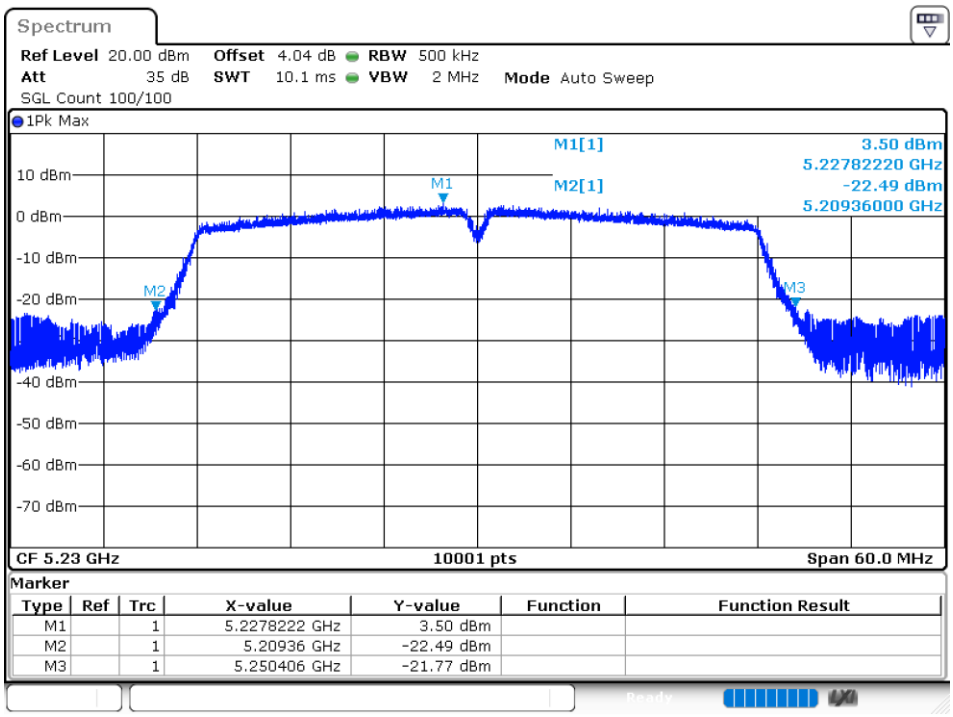

-26dB Bandwidth NVNT n20 5240MHz Ant1



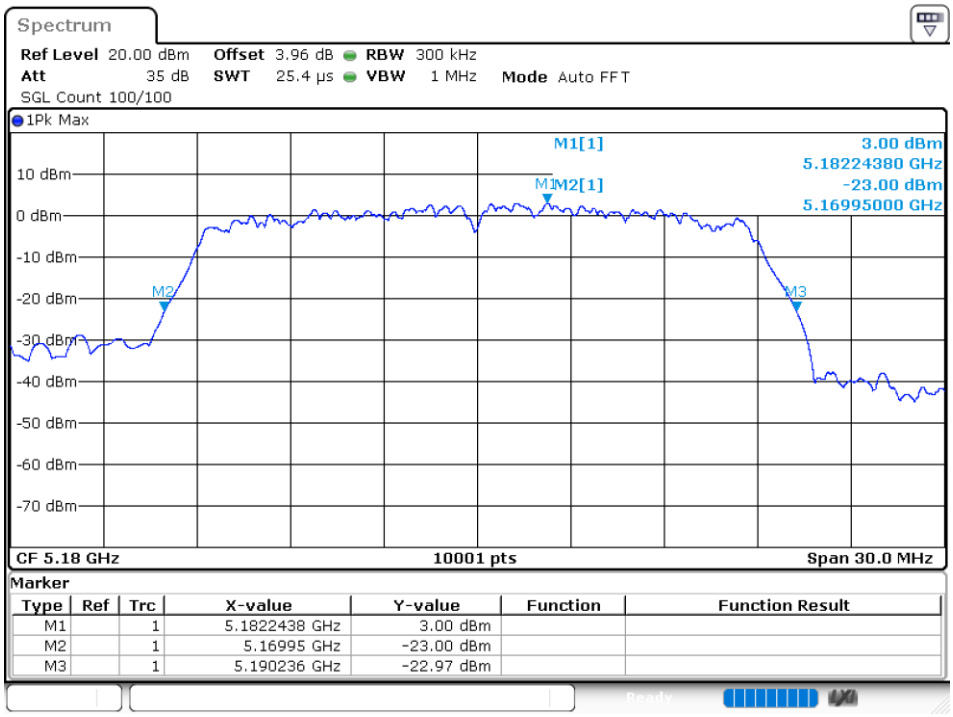
-26dB Bandwidth NVNT n40 5190MHz Ant1



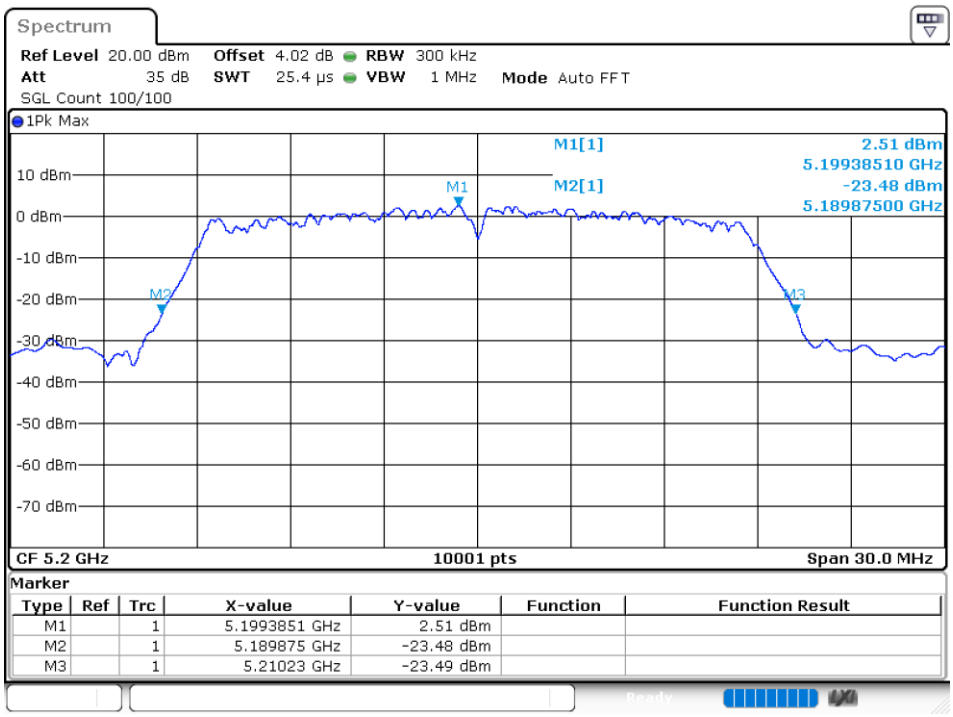

-26dB Bandwidth NVNT n40 5230MHz Ant1



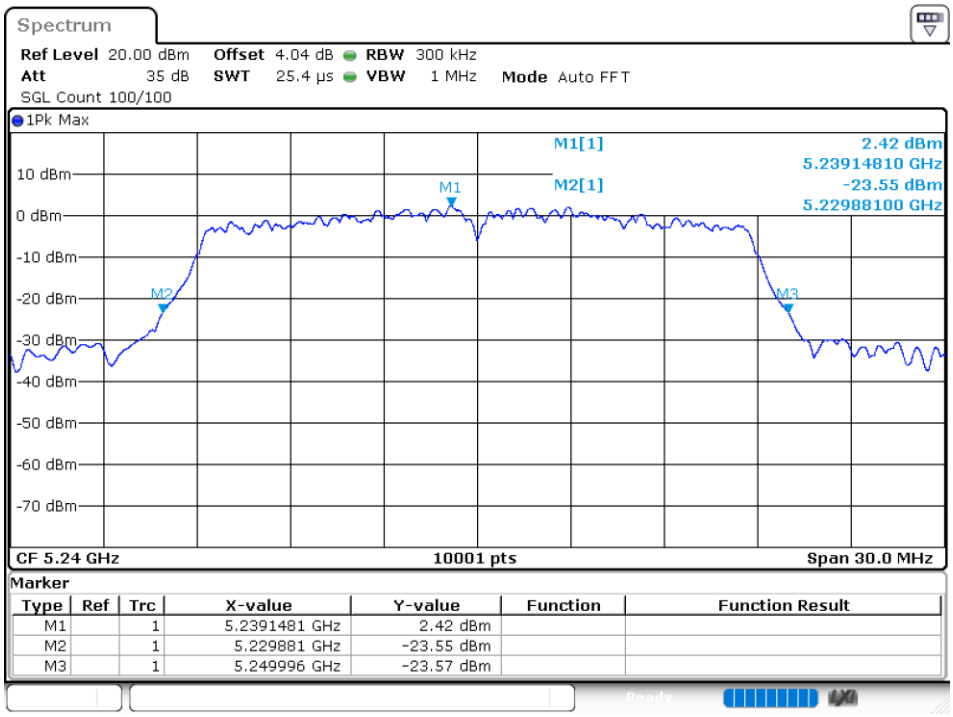
-26dB Bandwidth NVNT ac20 5180MHz Ant1



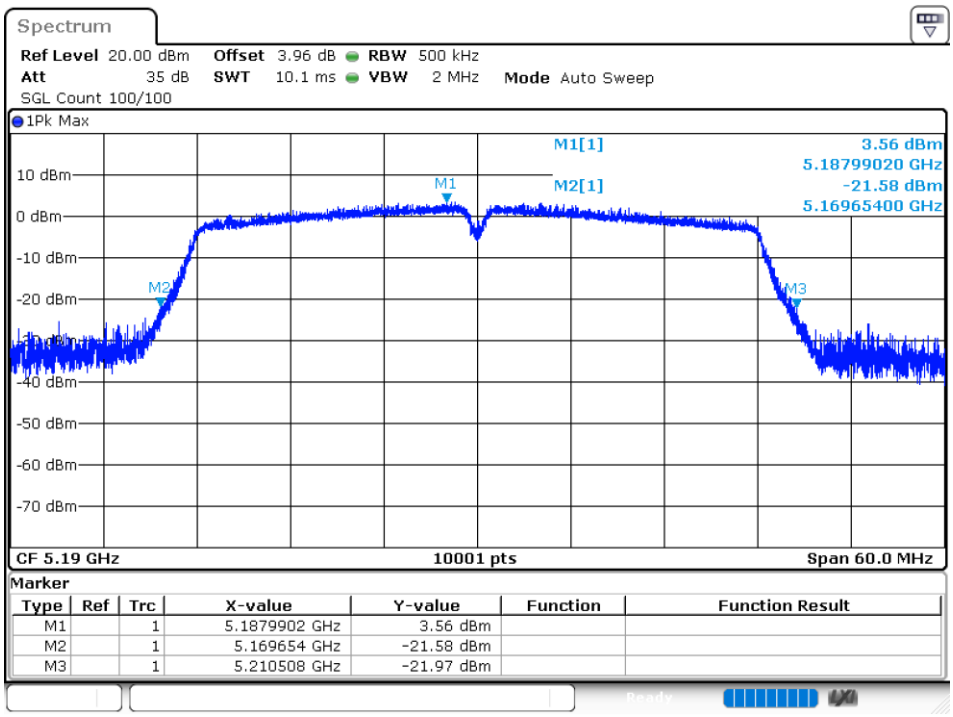

-26dB Bandwidth NVNT ac20 5200MHz Ant1



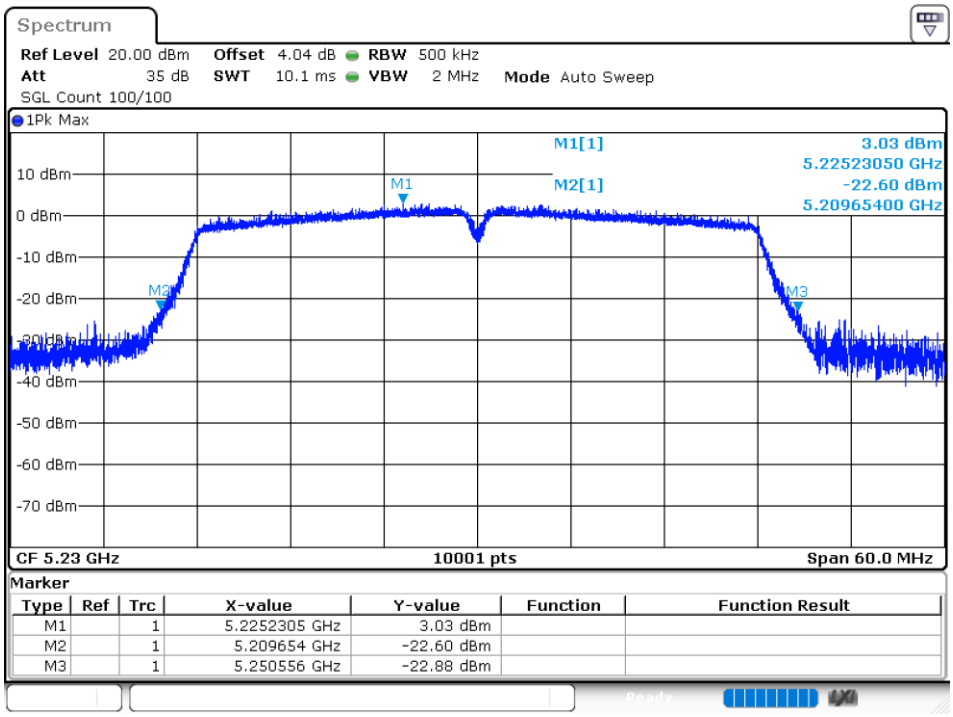
-26dB Bandwidth NVNT ac20 5240MHz Ant1



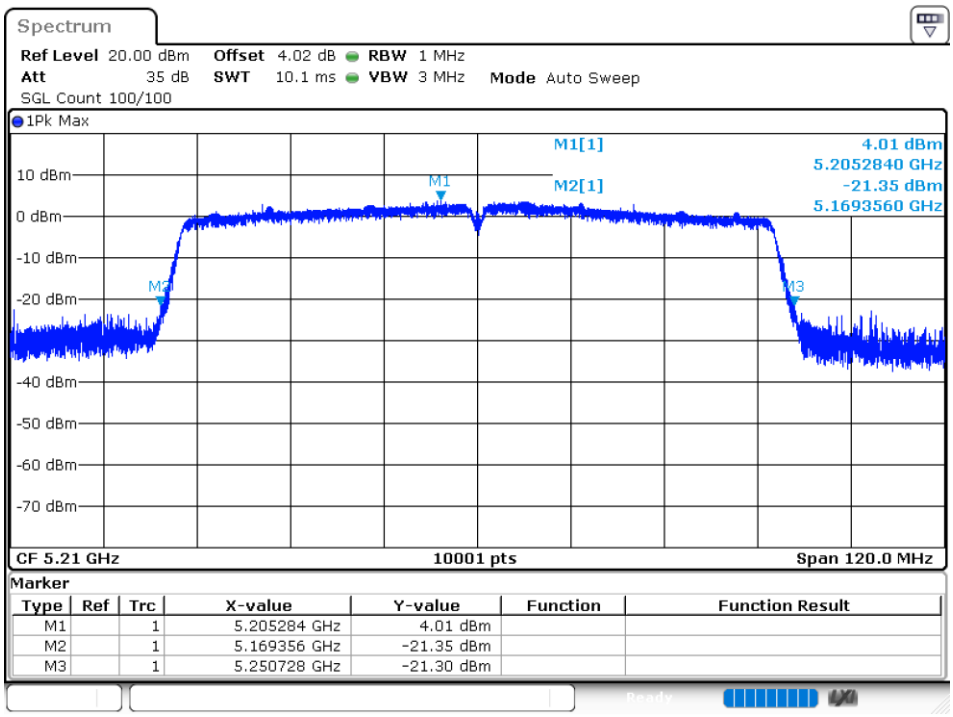

-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1




-26dB Bandwidth NVNT ac80 5210MHz Ant1

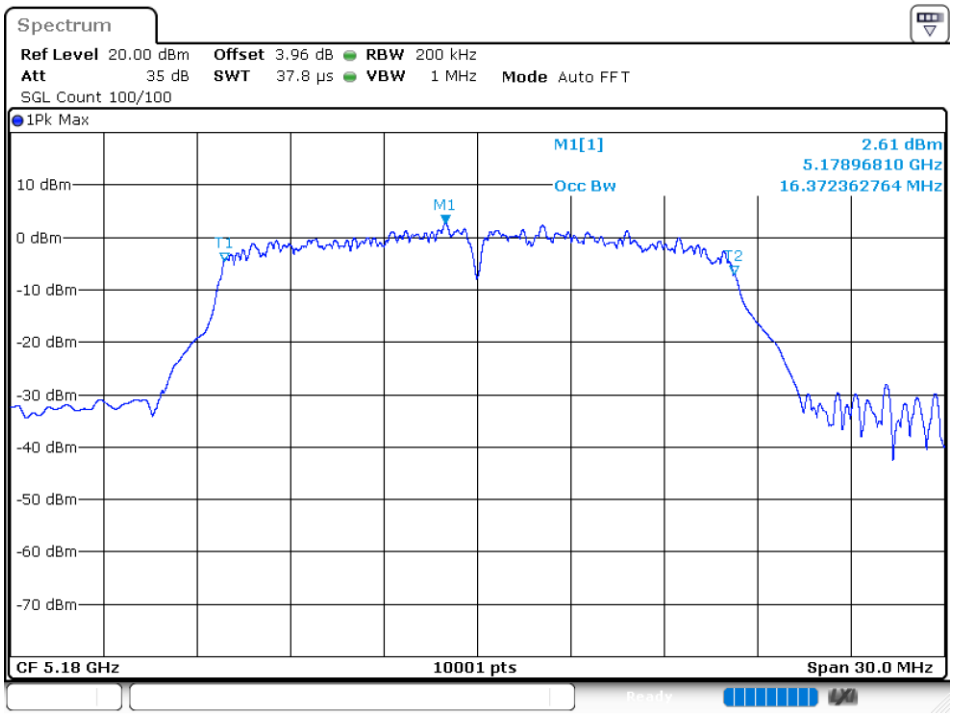


# Occupied Channel Bandwidth

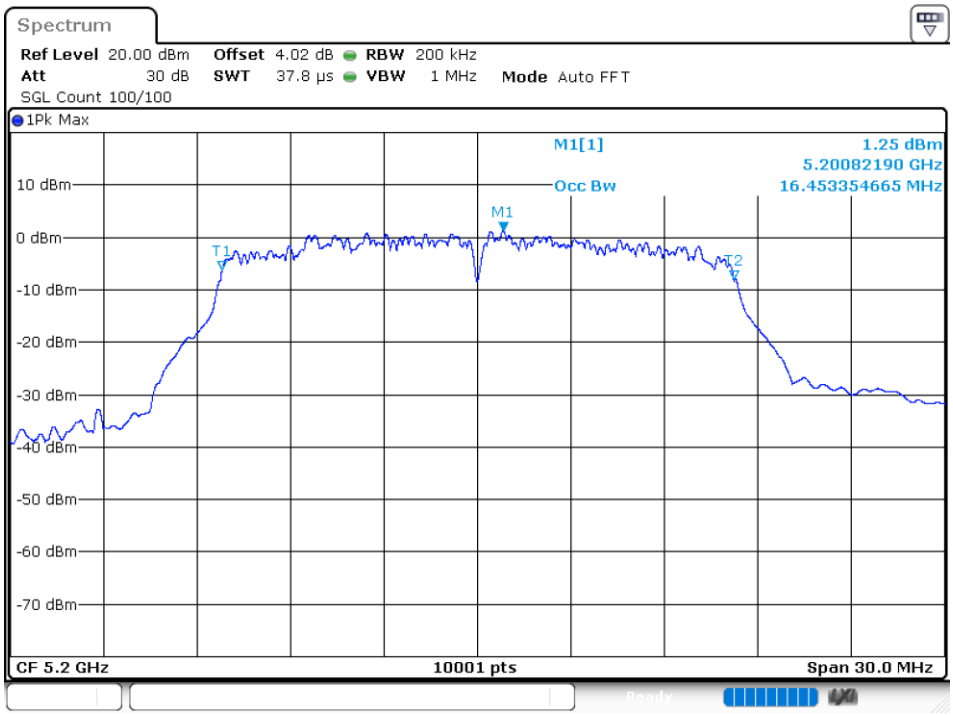
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 16.372 |
| NVNT | a | 5200 | Ant1 | 16.453 |
| NVNT | a | 5240 | Ant1 | 16.486 |
| NVNT | n20 | 5180 | Ant1 | 17.596 |
| NVNT | n20 | 5200 | Ant1 | 17.71 |
| NVNT | n20 | 5240 | Ant1 | 17.635 |
| NVNT | n40 | 5190 | Ant1 | 36.05 |
| NVNT | n40 | 5230 | Ant1 | 36.092 |
| NVNT | ac20 | 5180 | Ant1 | 17.551 |
| NVNT | ac20 | 5200 | Ant1 | 17.608 |
| NVNT | ac20 | 5240 | Ant1 | 17.605 |
| NVNT | ac40 | 5190 | Ant1 | 36.002 |
| NVNT | ac40 | 5230 | Ant1 | 36.062 |
| NVNT | ac80 | 5210 | Ant1 | 75.304 |

Test Graphs

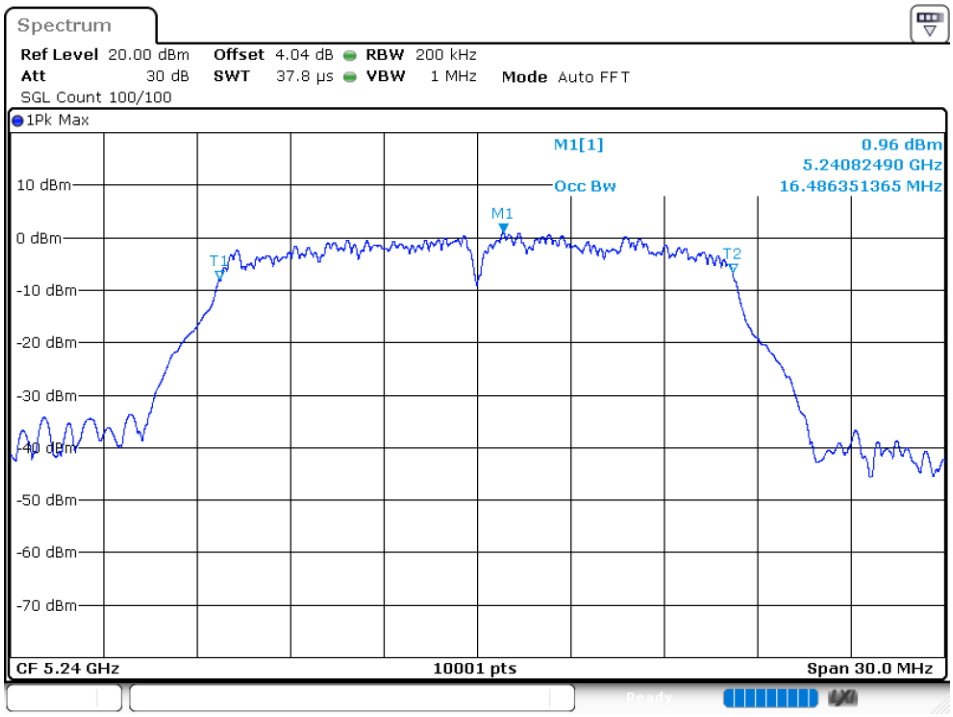
OBW NVNT a 5180MHz Ant1



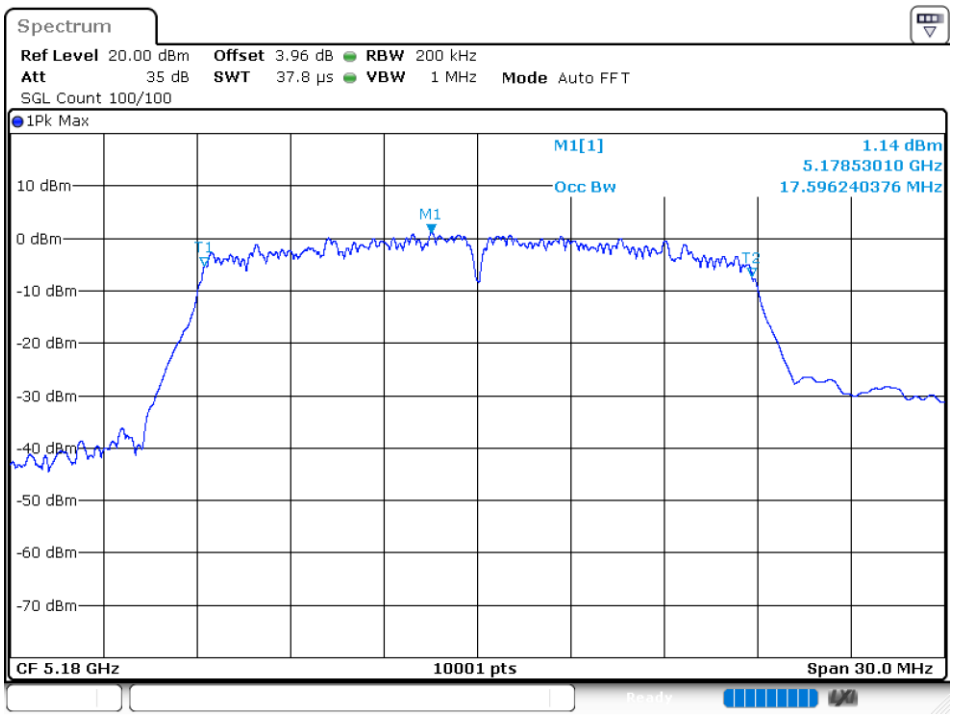

OBW NVNT a 5200MHz Ant1



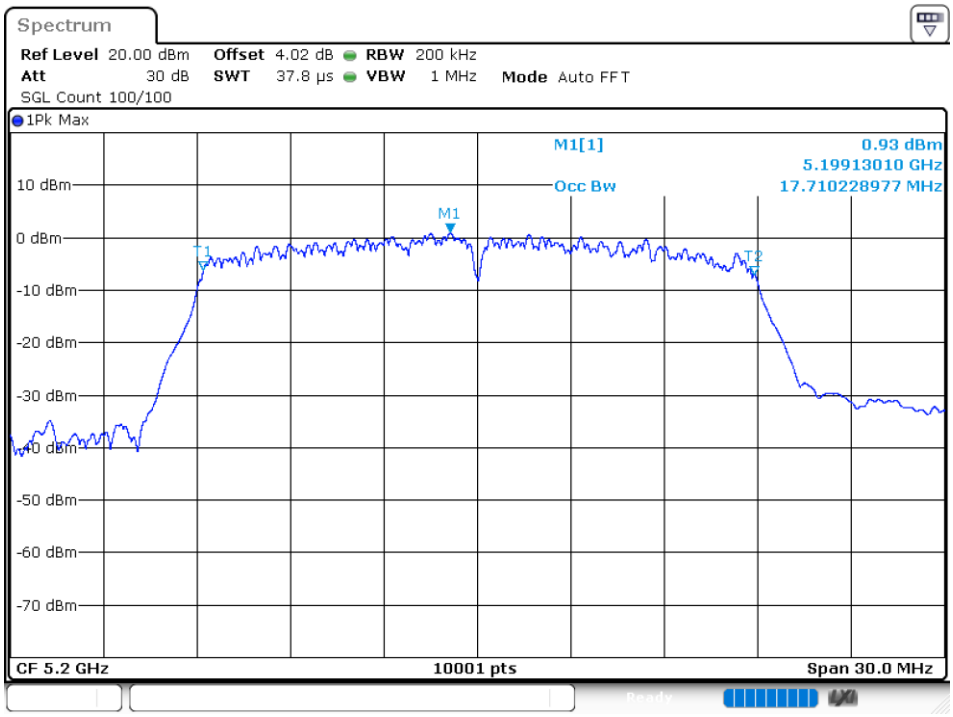
OBW NVNT a 5240MHz Ant1



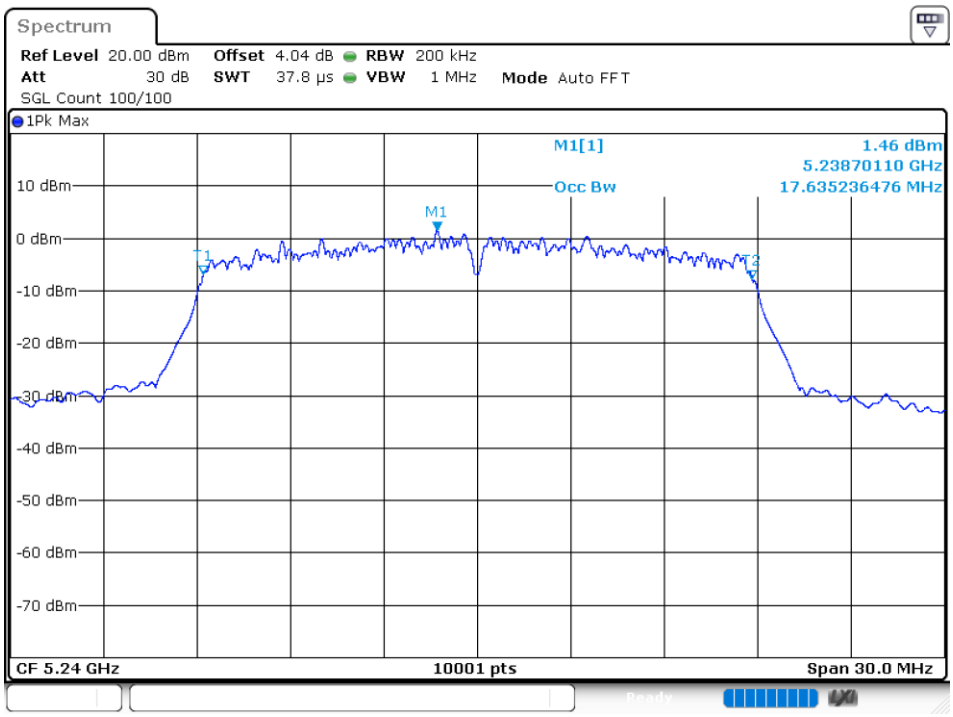

OBW NVNT n20 5180MHz Ant1



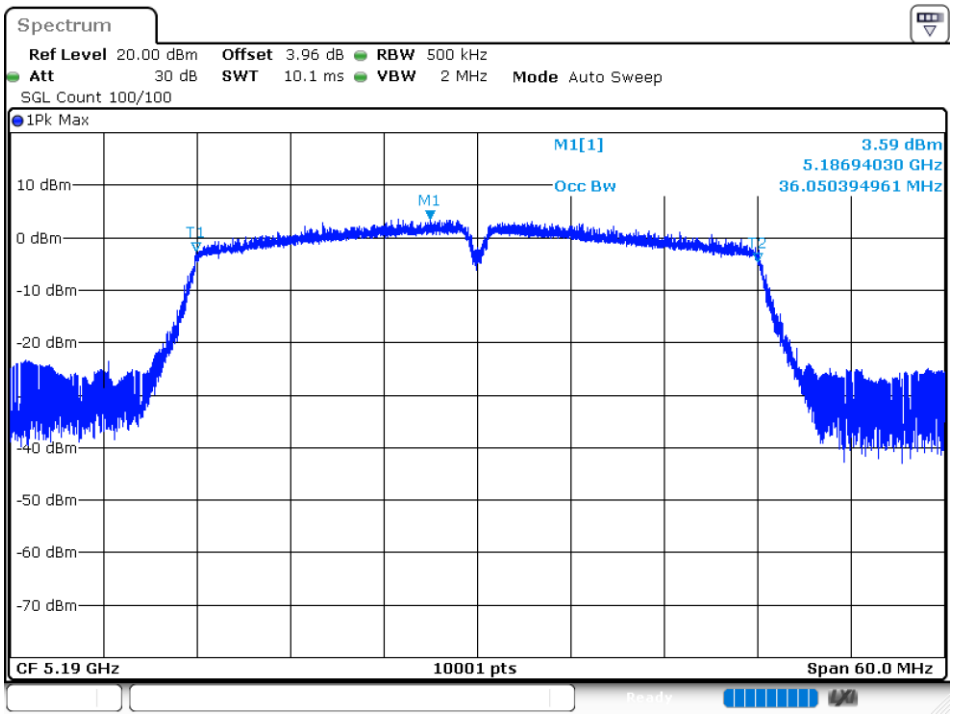
OBW NVNT n20 5200MHz Ant1



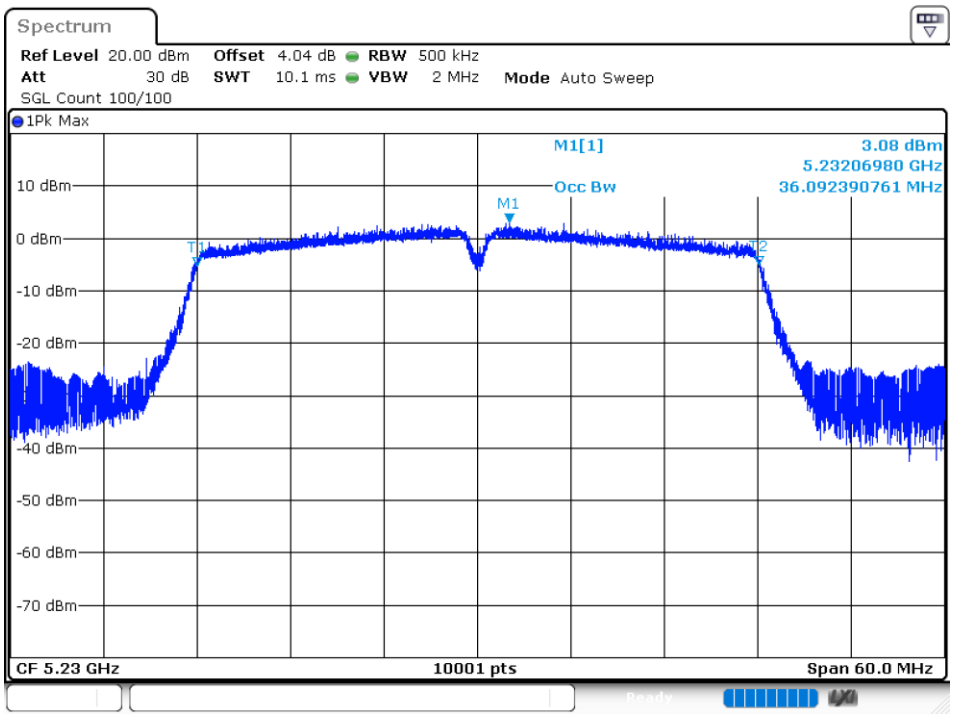

OBW NVNT n20 5240MHz Ant1



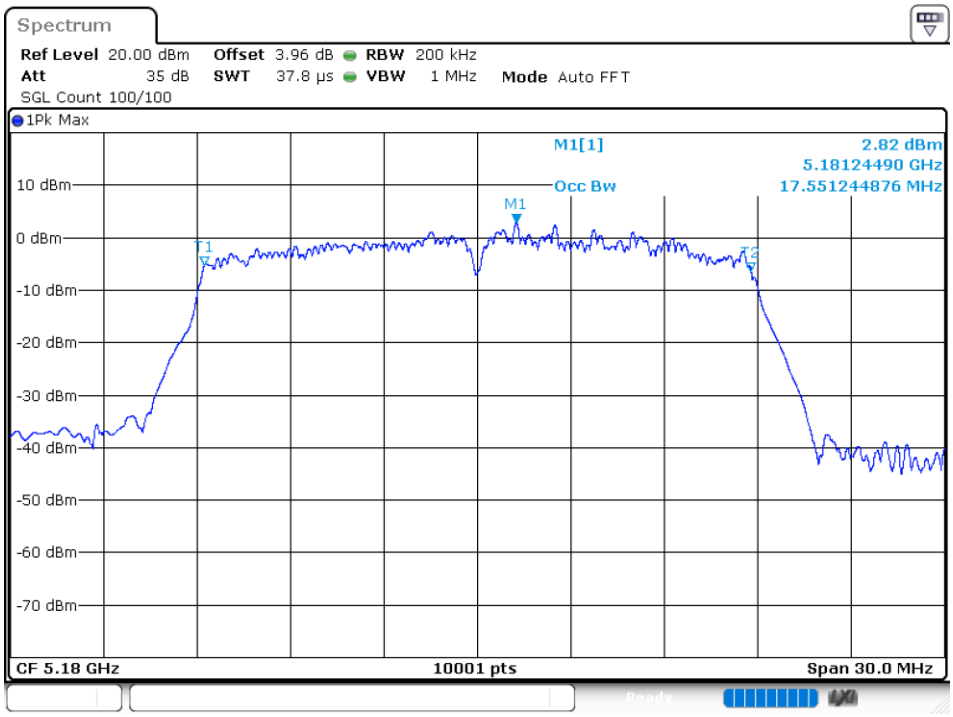
OBW NVNT n40 5190MHz Ant1



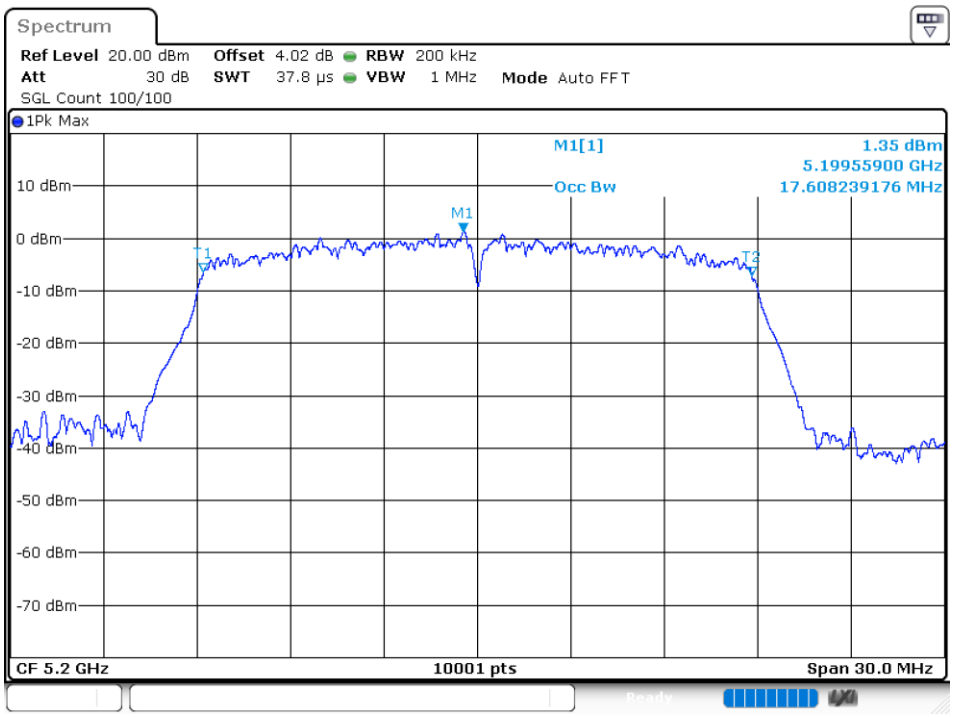

OBW NVNT n40 5230MHz Ant1



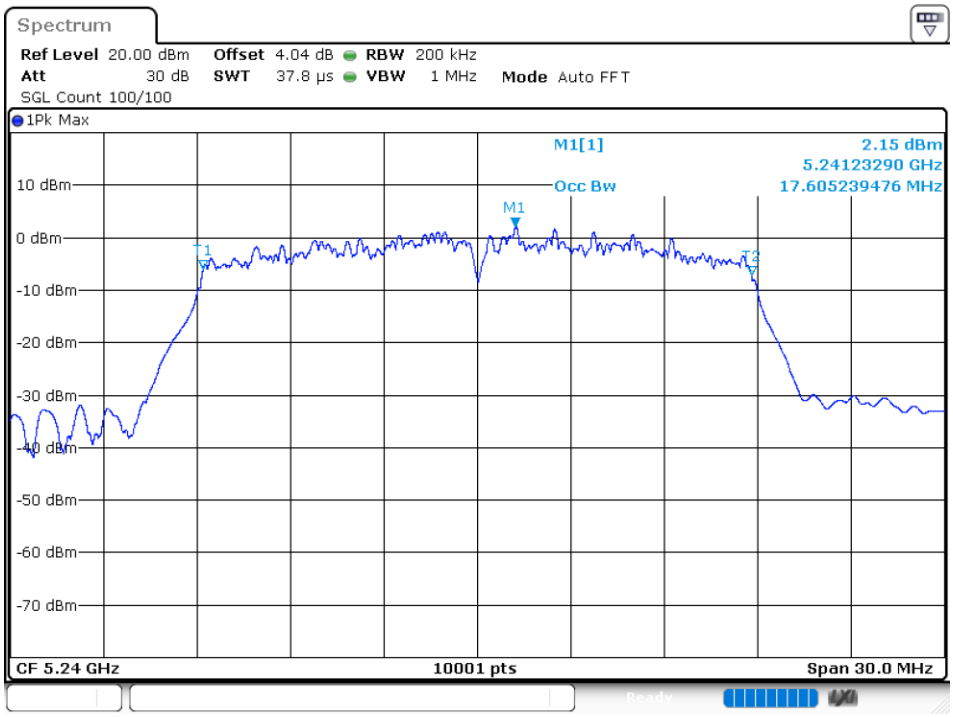
OBW NVNT ac20 5180MHz Ant1



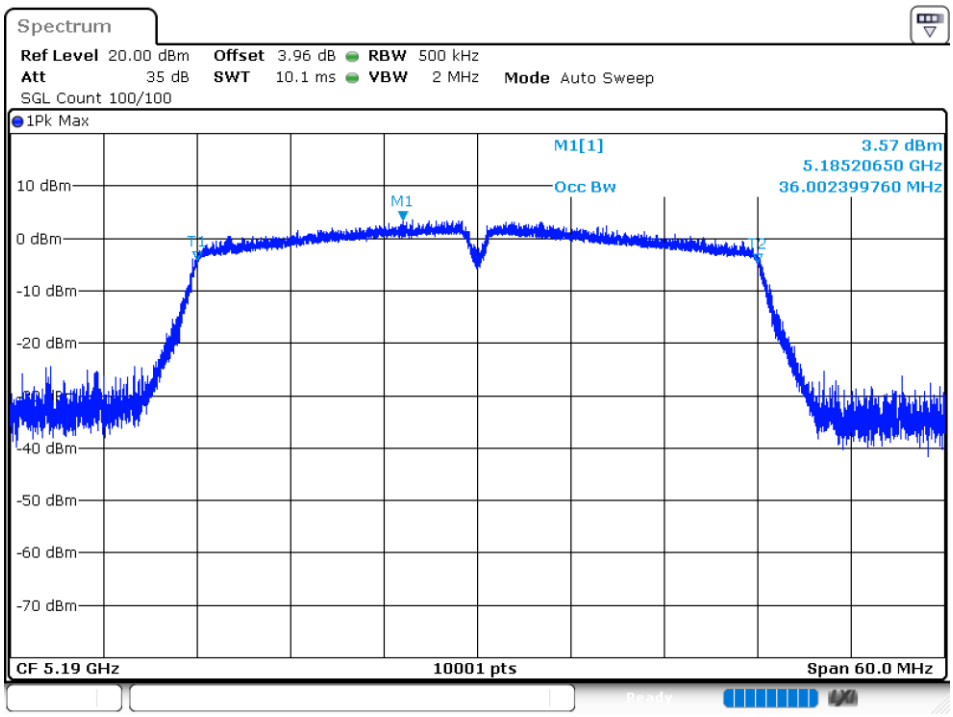

OBW NVNT ac20 5200MHz Ant1



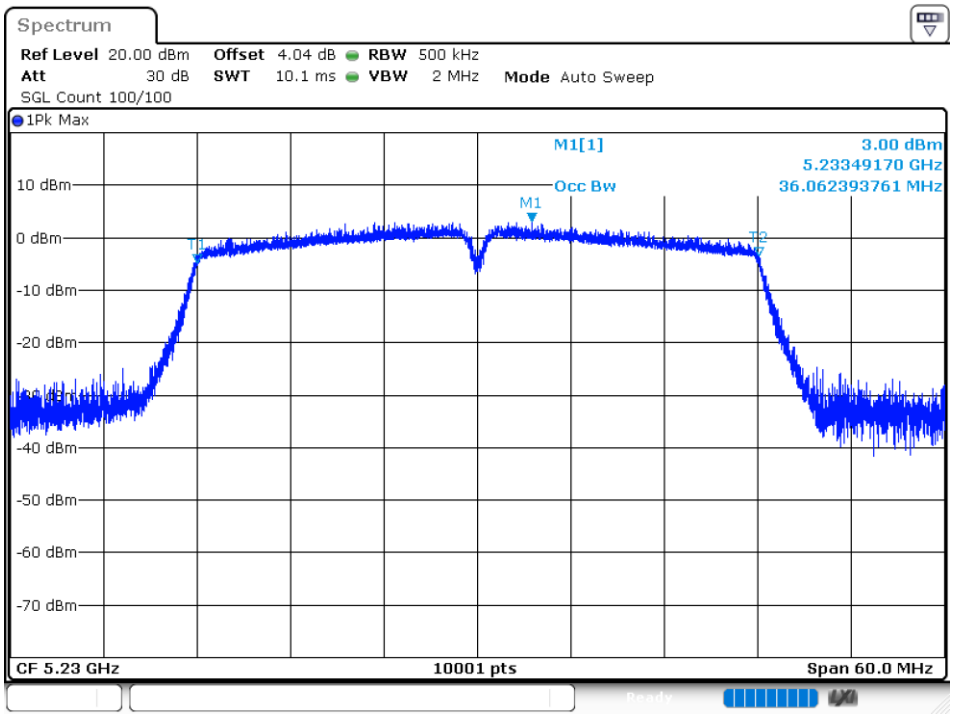
OBW NVNT ac20 5240MHz Ant1



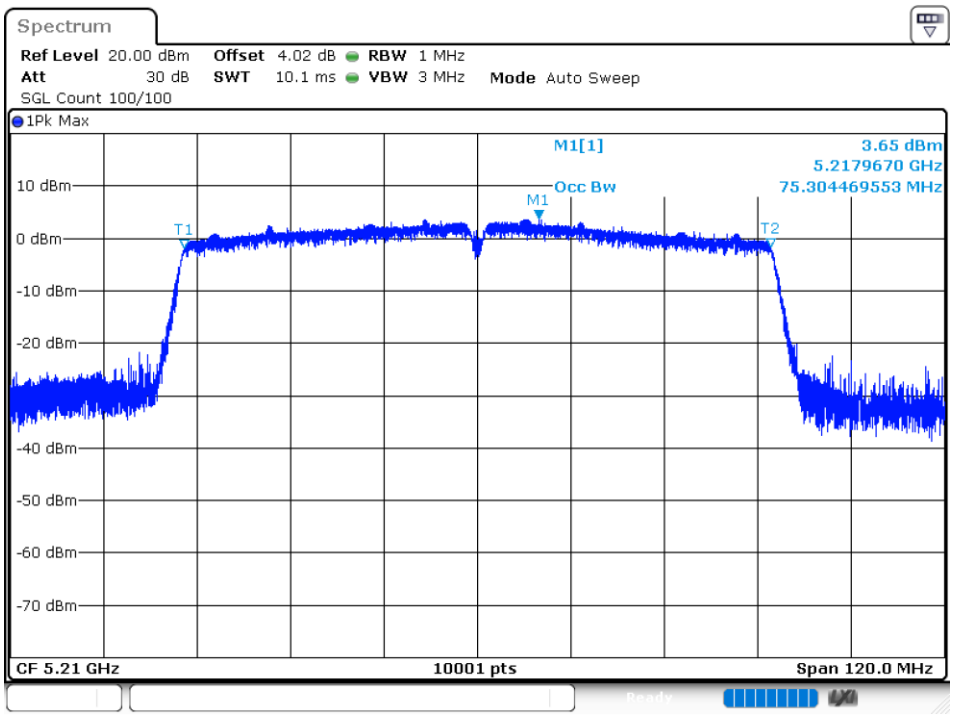

OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



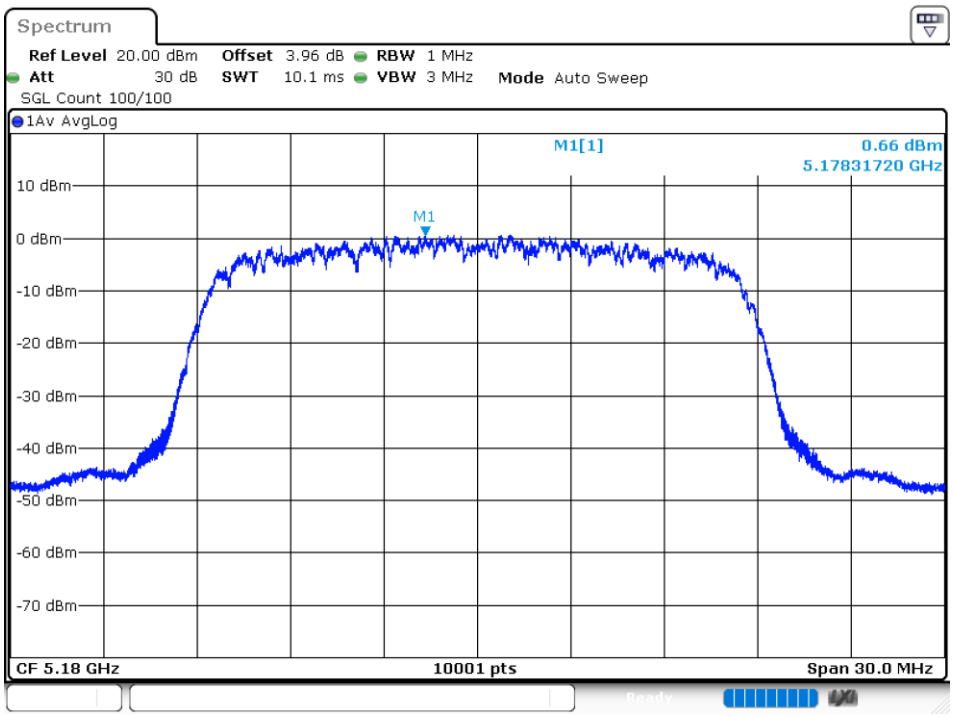

OBW NVNT ac80 5210MHz Ant1



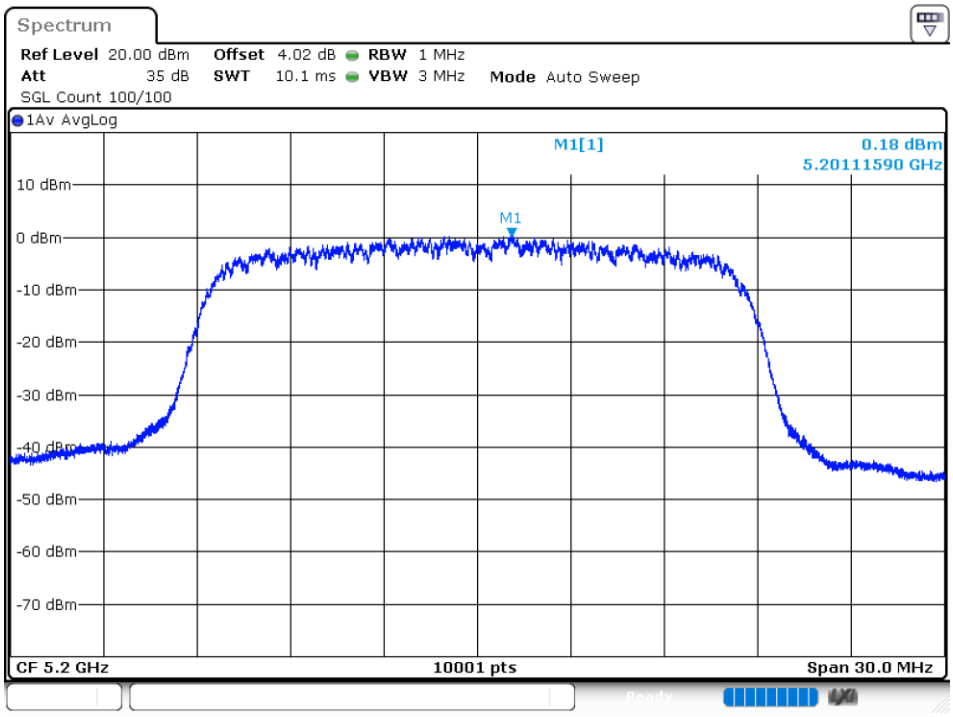
# Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 0.66 | 0.08 | 0.74 | 11 | Pass |
| NVNT | a | 5200 | Ant1 | 0.18 | 0.08 | 0.26 | 11 | Pass |
| NVNT | a | 5240 | Ant1 | 0.05 | 0.08 | 0.13 | 11 | Pass |
| NVNT | n20 | 5180 | Ant1 | 0.68 | 0.09 | 0.77 | 11 | Pass |
| NVNT | n20 | 5200 | Ant1 | 0.25 | 0.09 | 0.34 | 11 | Pass |
| NVNT | n20 | 5240 | Ant1 | -0.29 | 0.09 | -0.2 | 11 | Pass |
| NVNT | n40 | 5190 | Ant1 | -2.82 | 0.16 | -2.66 | 11 | Pass |
| NVNT | n40 | 5230 | Ant1 | -3.45 | 0.16 | -3.29 | 11 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 0.47 | 0.08 | 0.55 | 11 | Pass |
| NVNT | ac20 | 5200 | Ant1 | -0.42 | 0.09 | -0.33 | 11 | Pass |
| NVNT | ac20 | 5240 | Ant1 | -0.26 | 0.08 | -0.18 | 11 | Pass |
| NVNT | ac40 | 5190 | Ant1 | -2.99 | 0.16 | -2.83 | 11 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -3.84 | 0.16 | -3.68 | 11 | Pass |
| NVNT | ac80 | 5210 | Ant1 | -6.82 | 0.31 | -6.51 | 11 | Pass |

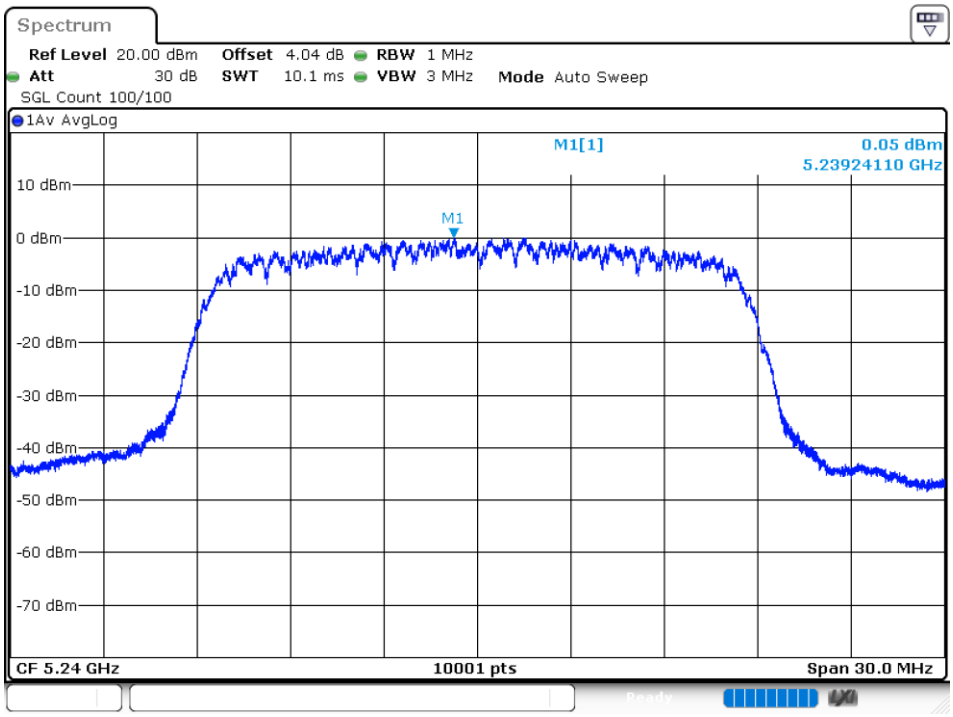
| Test Graphs |
|---|
| PSD NVNT a 5180MHz Ant1 |



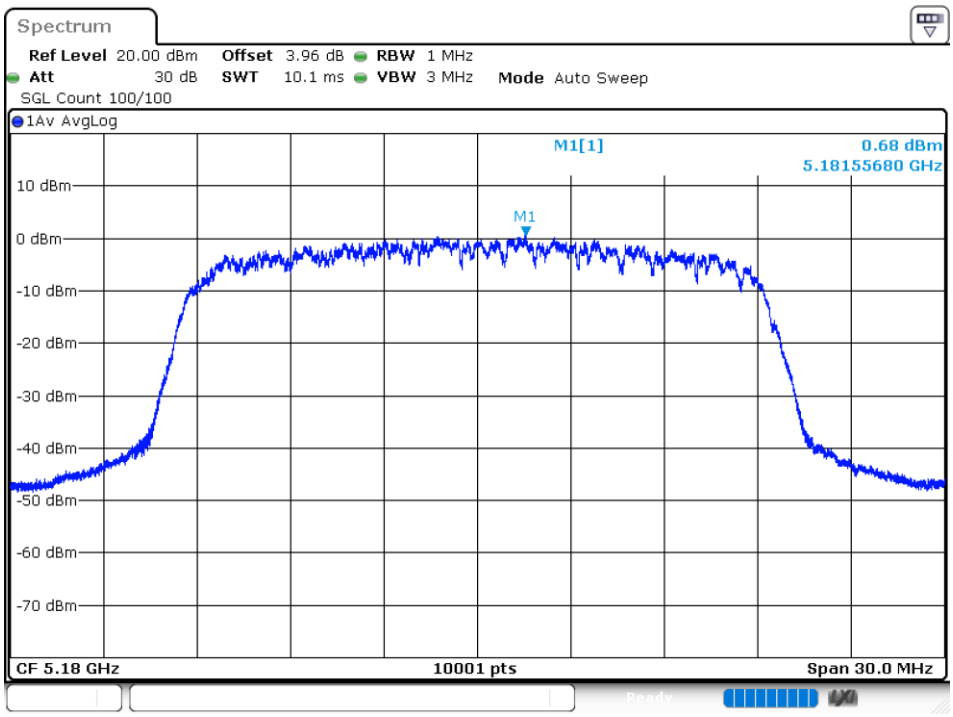

| PSD NVNT a 5200MHz Ant1 |
|---|



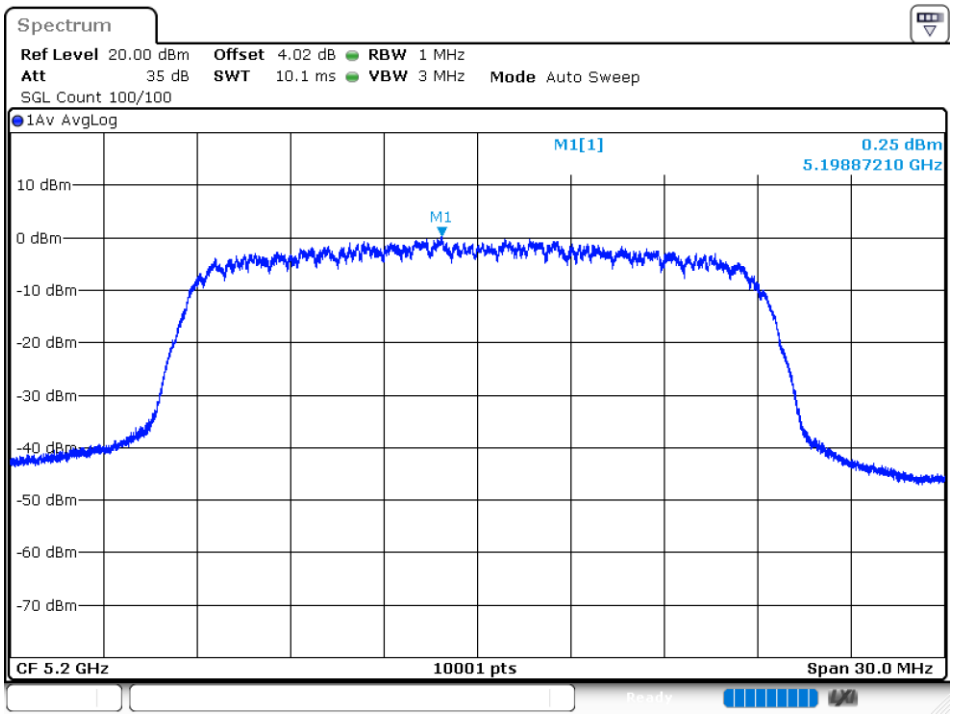
PSD NVNT a 5240MHz Ant1



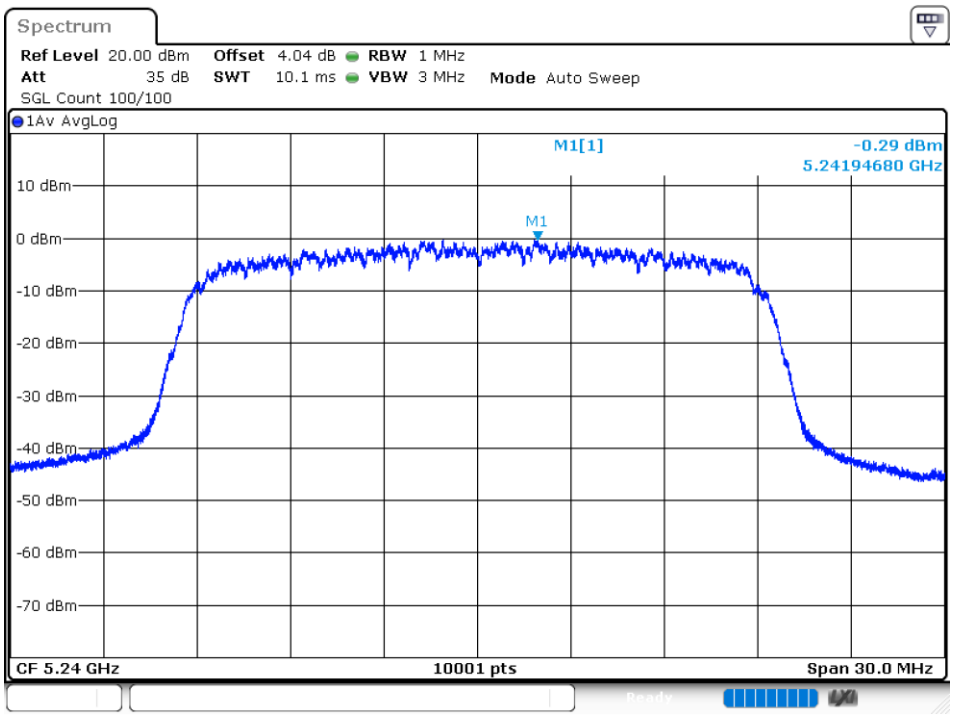

PSD NVNT n20 5180MHz Ant1



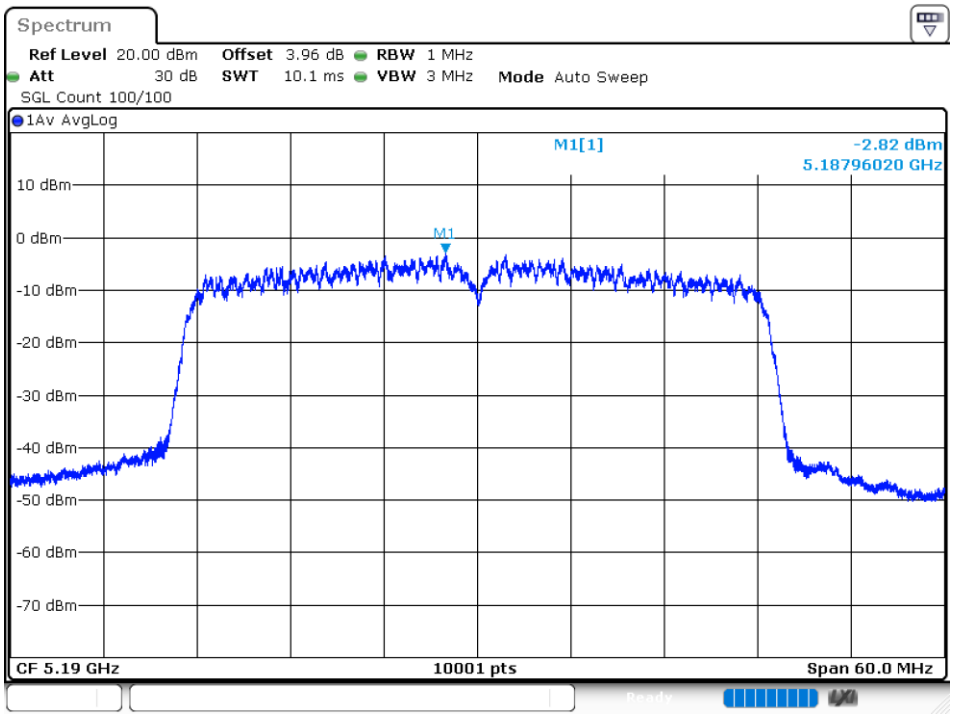
PSD NVNT n20 5200MHz Ant1



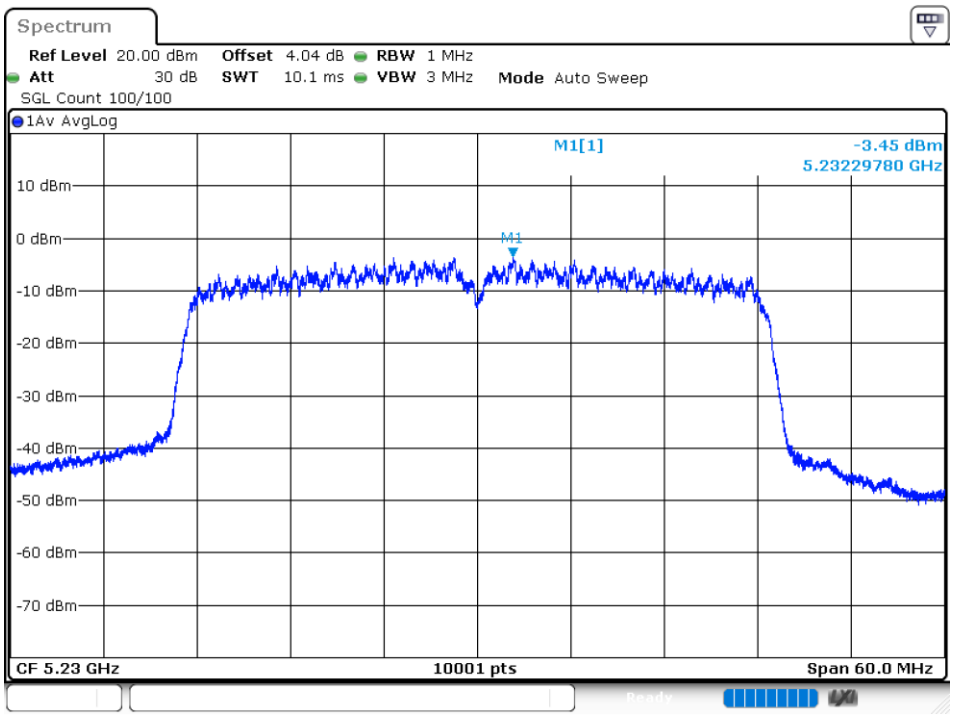

PSD NVNT n20 5240MHz Ant1



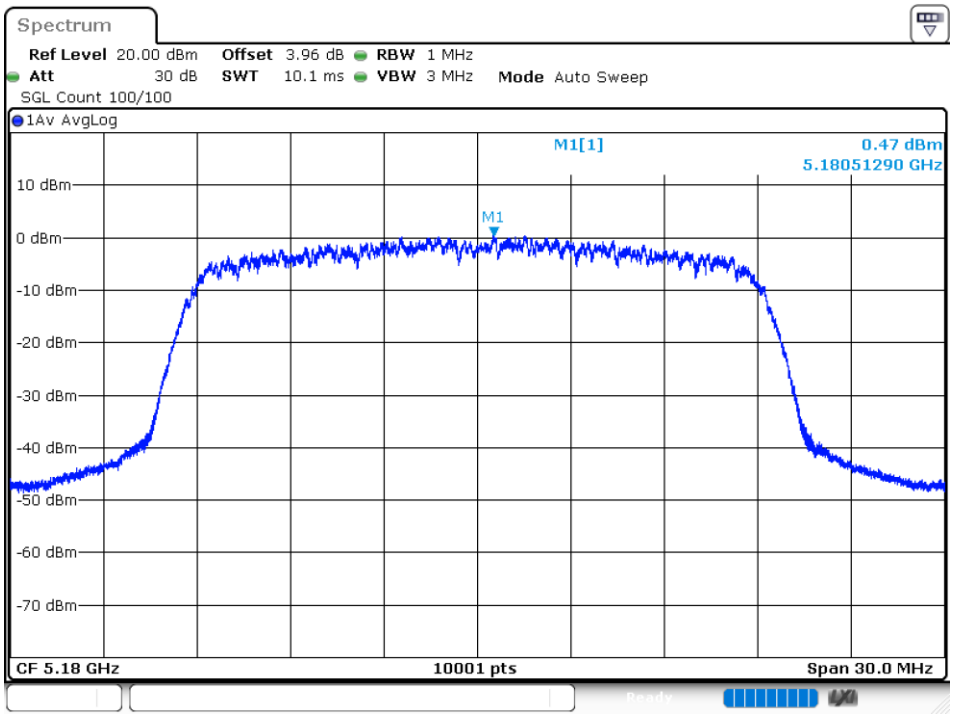
PSD NVNT n40 5190MHz Ant1



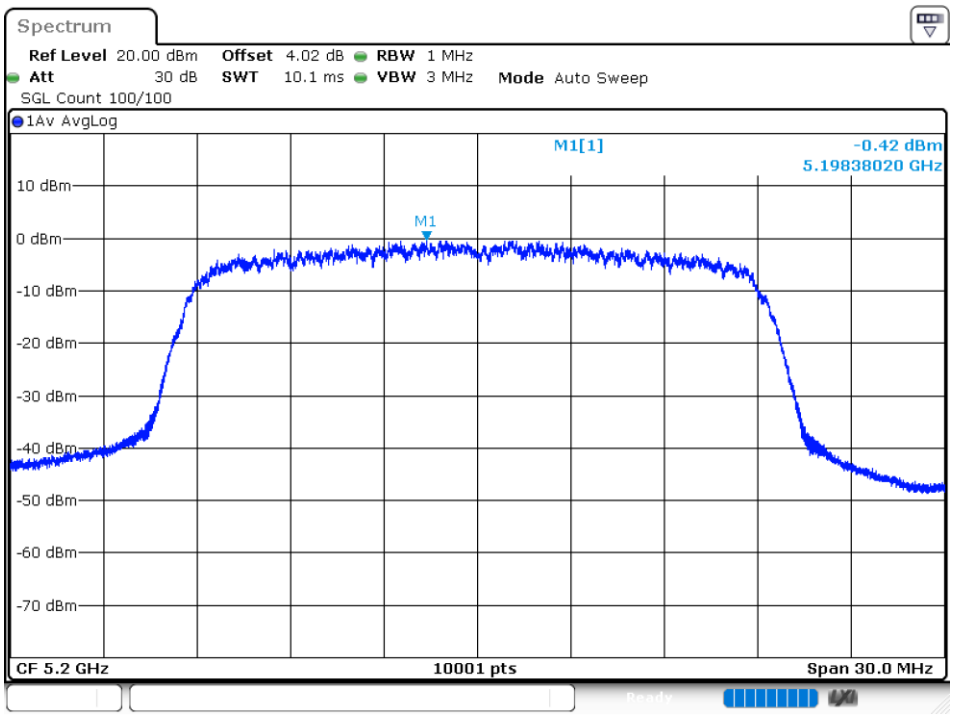

PSD NVNT n40 5230MHz Ant1



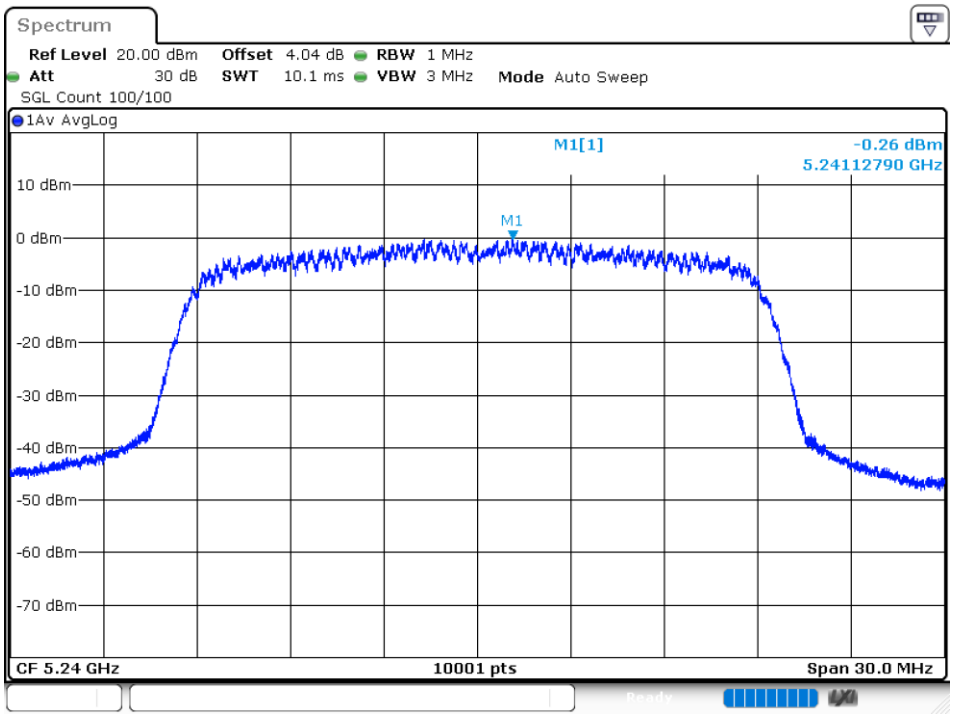
PSD NVNT ac20 5180MHz Ant1



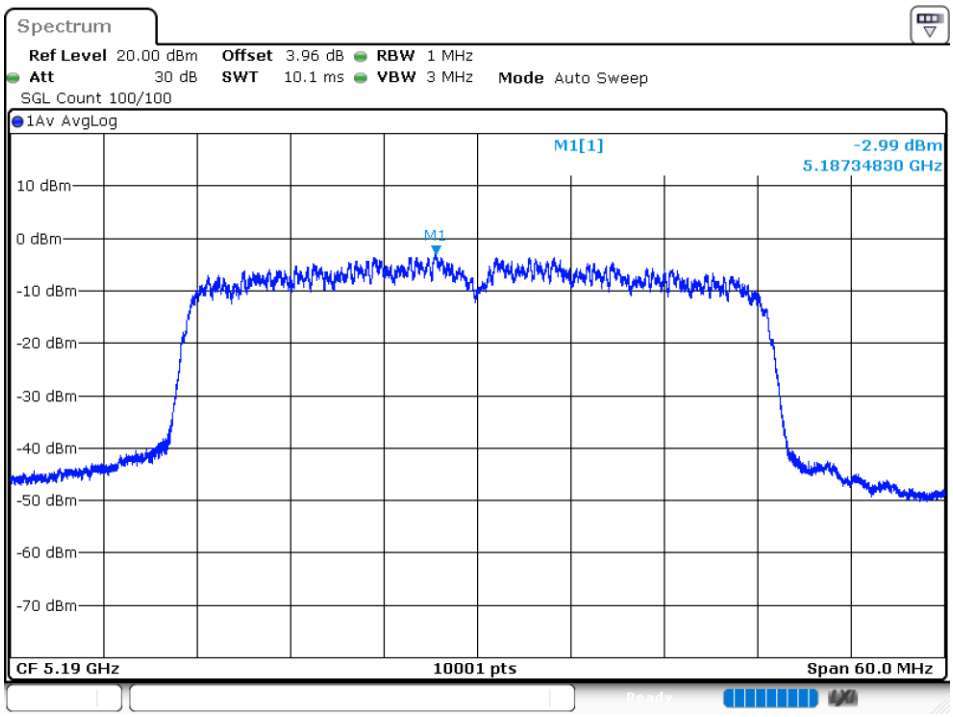

PSD NVNT ac20 5200MHz Ant1



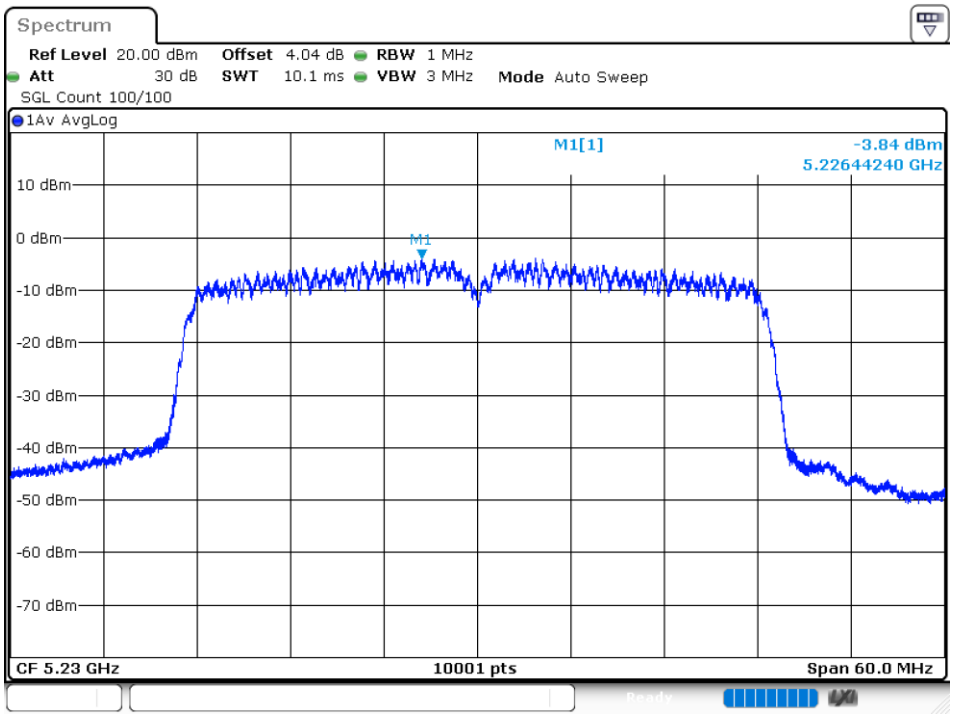
PSD NVNT ac20 5240MHz Ant1



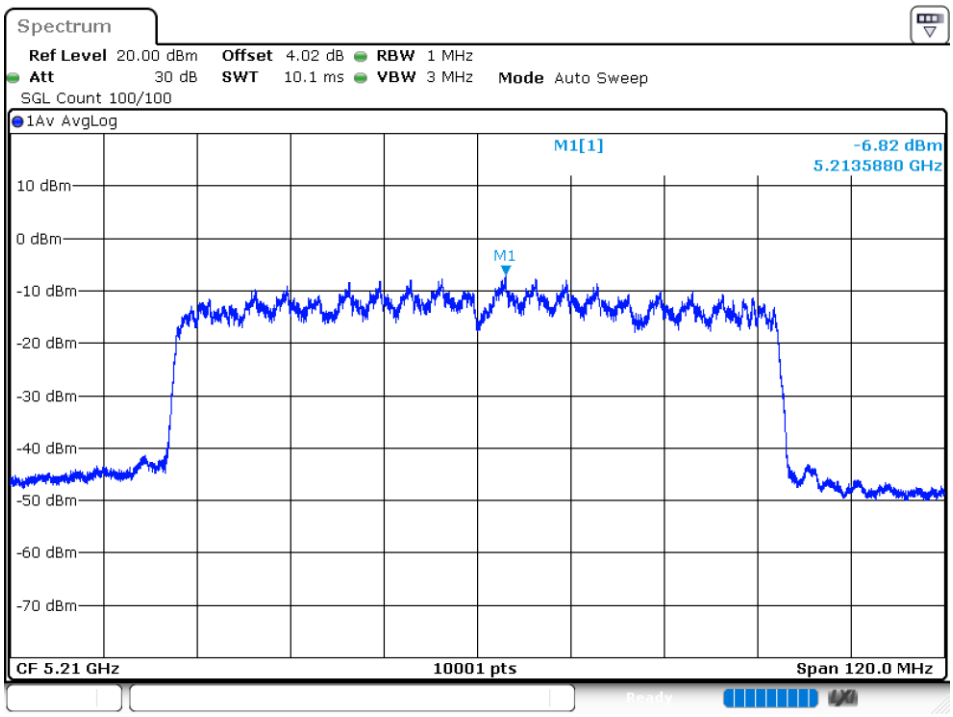

PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1




PSD NVNT ac80 5210MHz Ant1

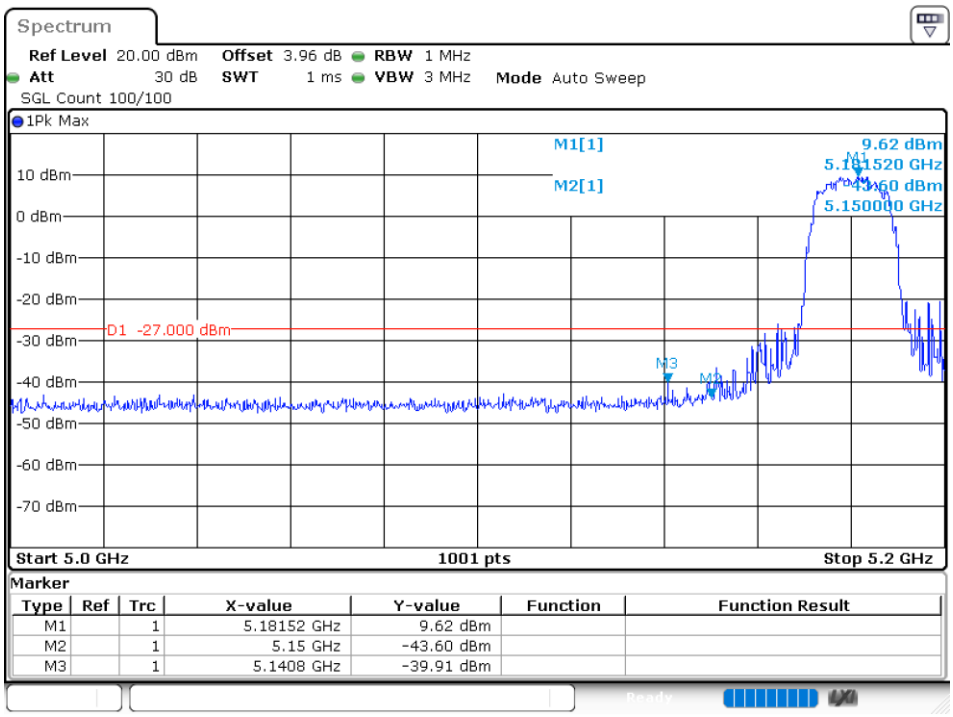


# Band Edge

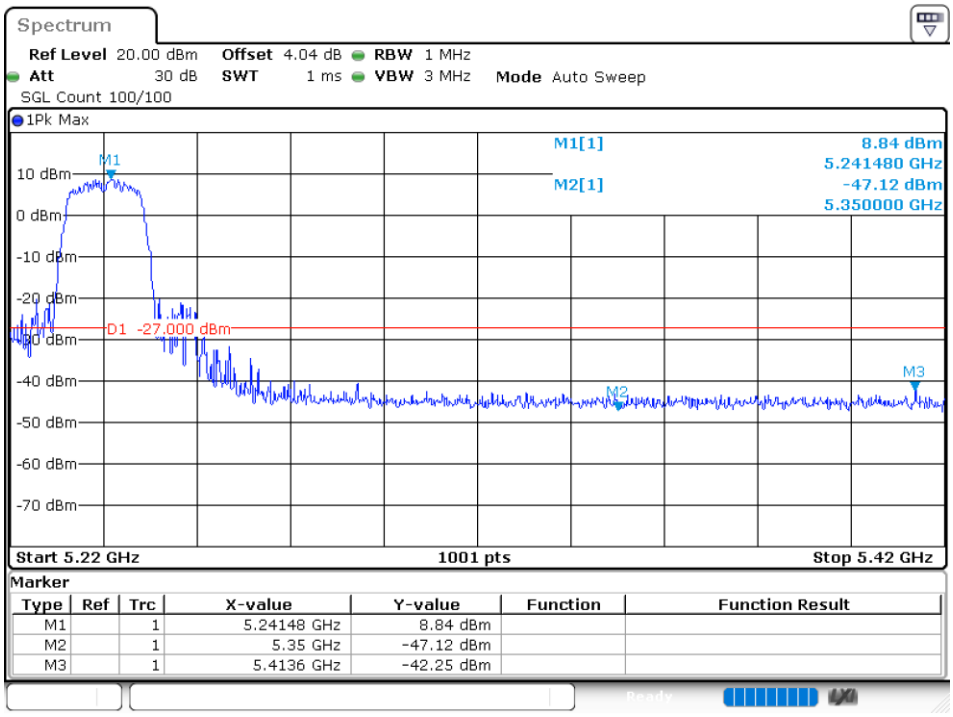
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | -39.91 | -27 | Pass |
| NVNT | a | 5240 | Ant1 | -42.24 | -27 | Pass |
| NVNT | n20 | 5180 | Ant1 | -33.83 | -27 | Pass |
| NVNT | n20 | 5240 | Ant1 | -42.1 | -27 | Pass |
| NVNT | n40 | 5190 | Ant1 | -28.57 | -27 | Pass |
| NVNT | n40 | 5230 | Ant1 | -42.19 | -27 | Pass |
| NVNT | ac20 | 5180 | Ant1 | -35.73 | -27 | Pass |
| NVNT | ac20 | 5240 | Ant1 | -41.69 | -27 | Pass |
| NVNT | ac40 | 5190 | Ant1 | -31.45 | -27 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -42.05 | -27 | Pass |
| NVNT | ac80 | 5210 | Ant1 | -39.31 | -27 | Pass |

Test Graphs

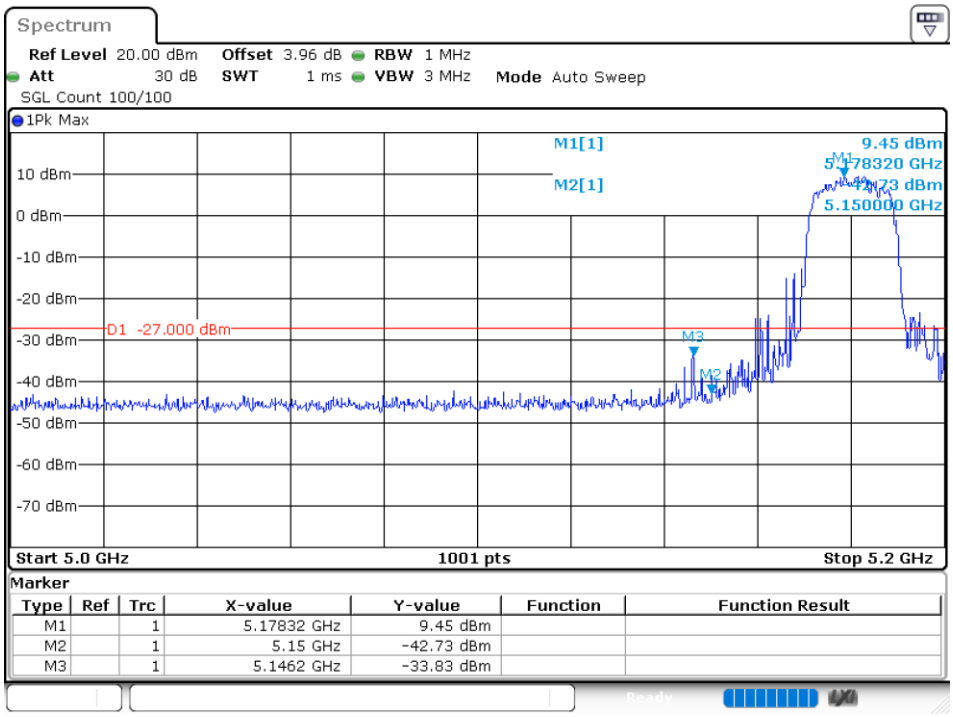
Band Edge NVNT a 5180MHz Low Ant1



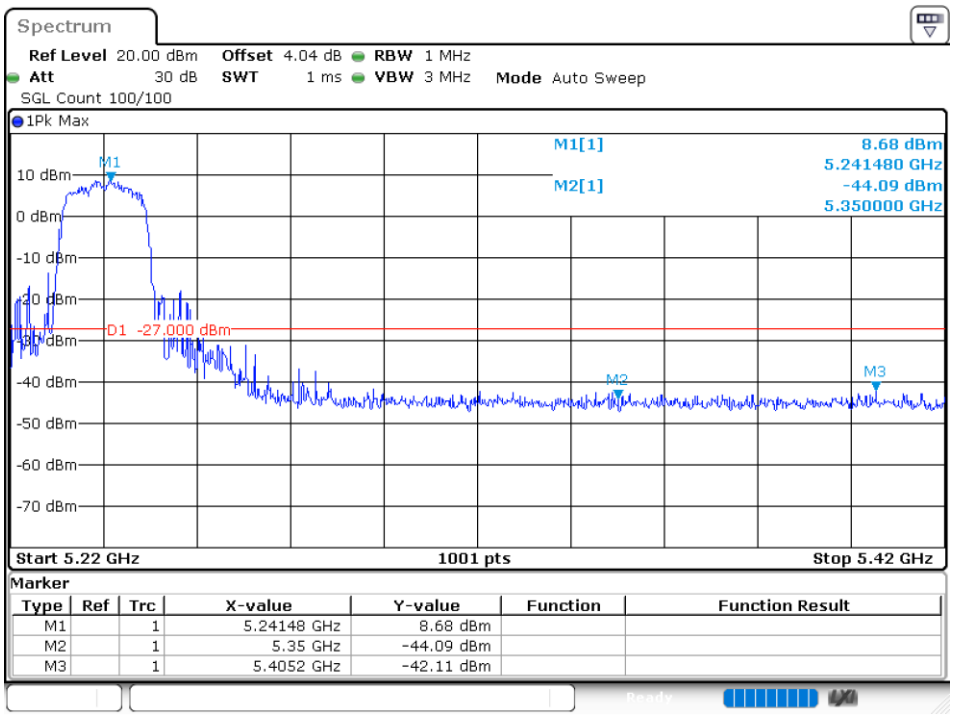

Band Edge NVNT a 5240MHz High Ant1



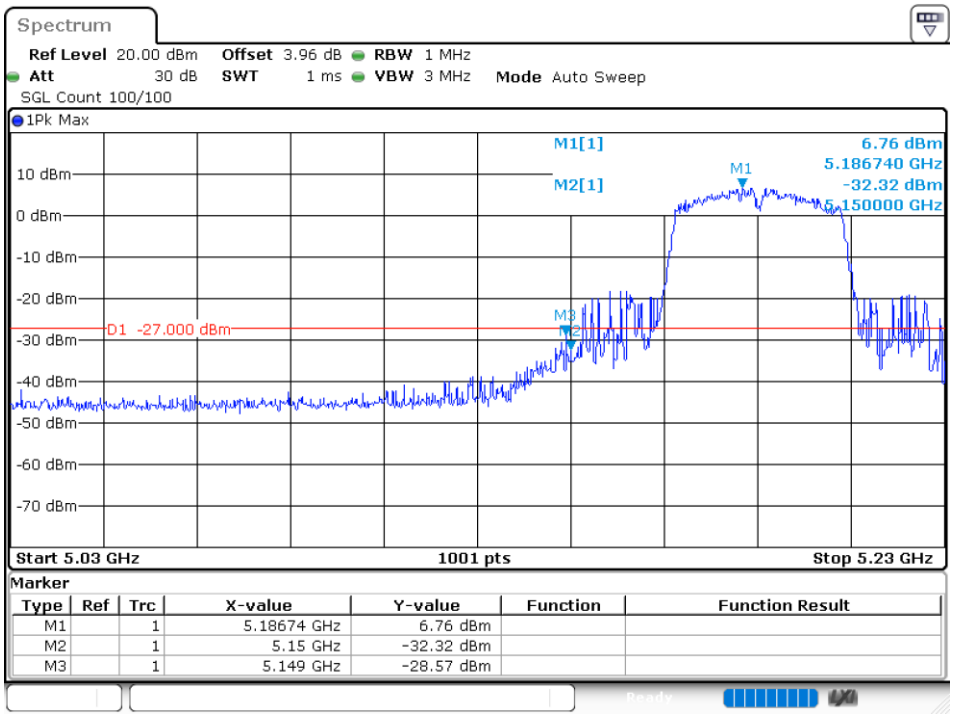
Band Edge NVNT n20 5180MHz Low Ant1



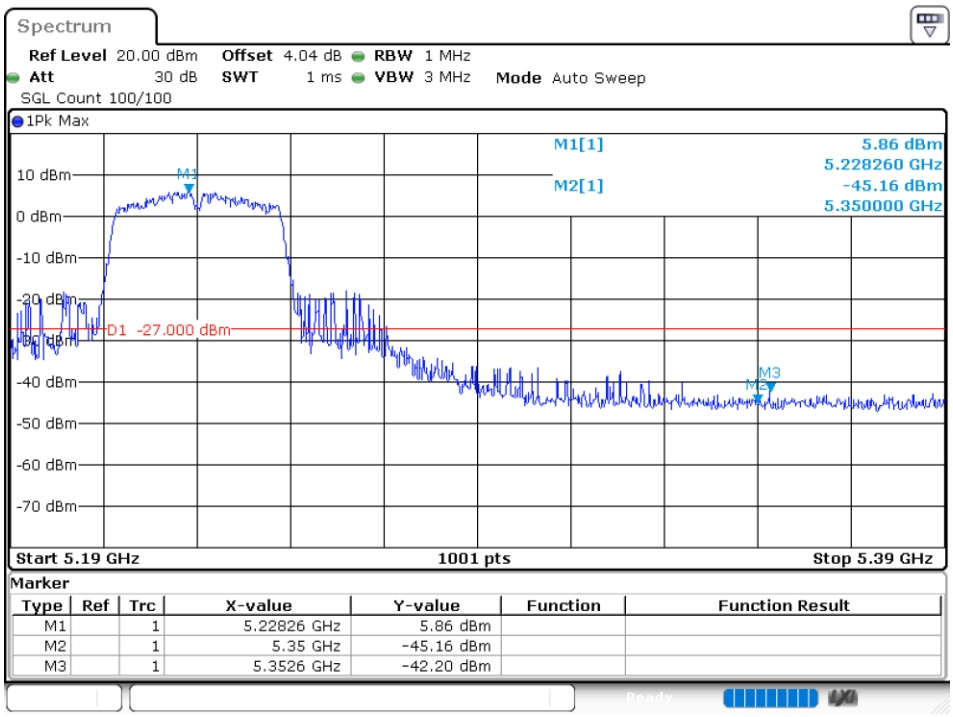

Band Edge NVNT n20 5240MHz High Ant1



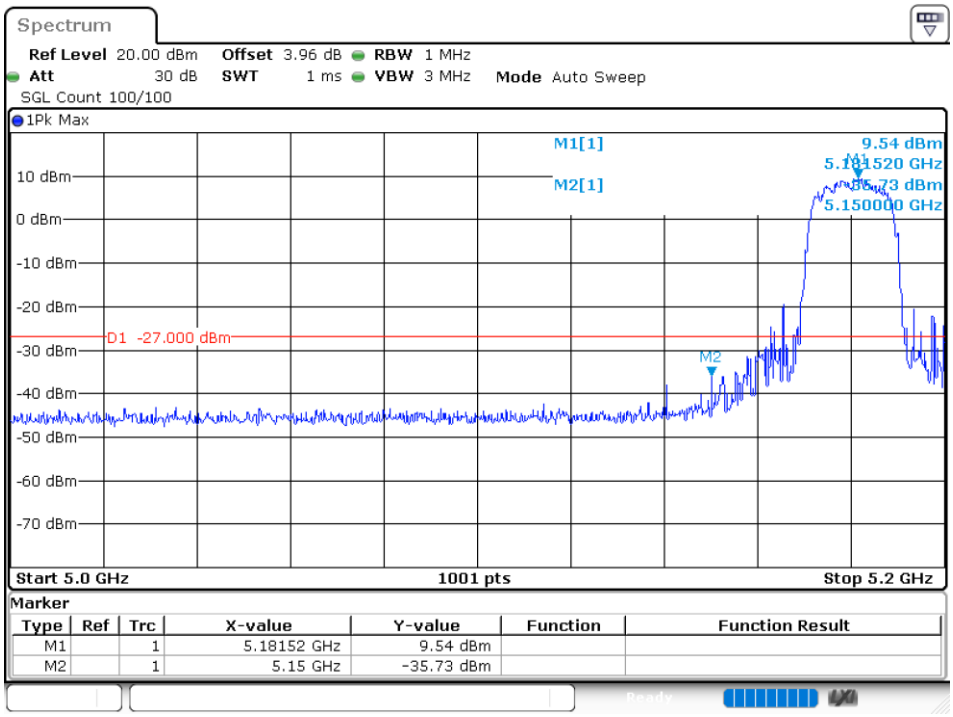
Band Edge NVNT n40 5190MHz Low Ant1



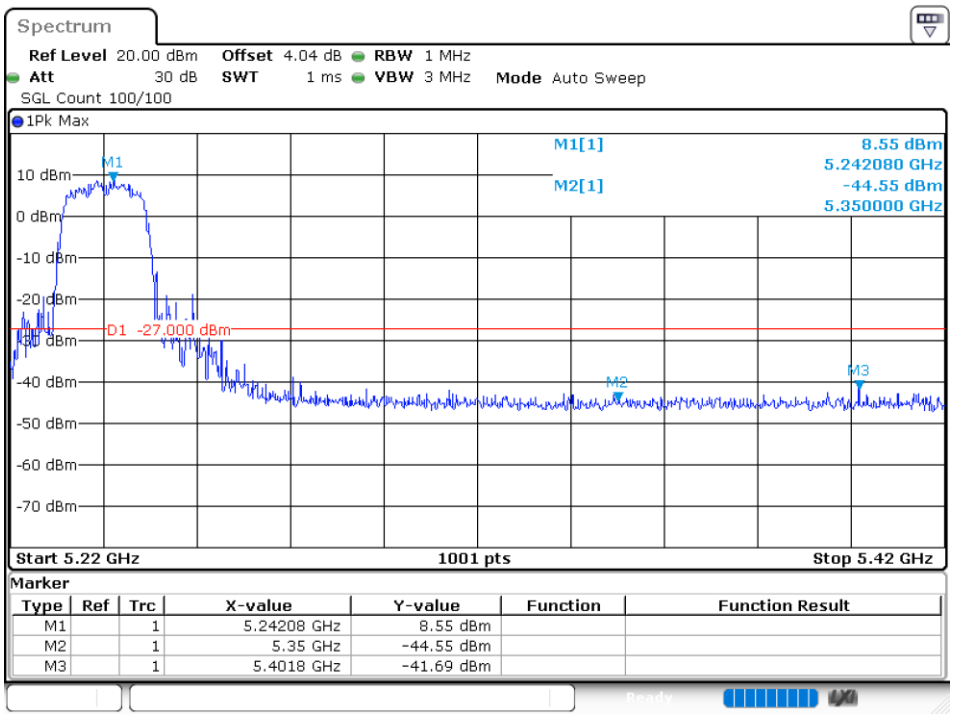

Band Edge NVNT n40 5230MHz High Ant1



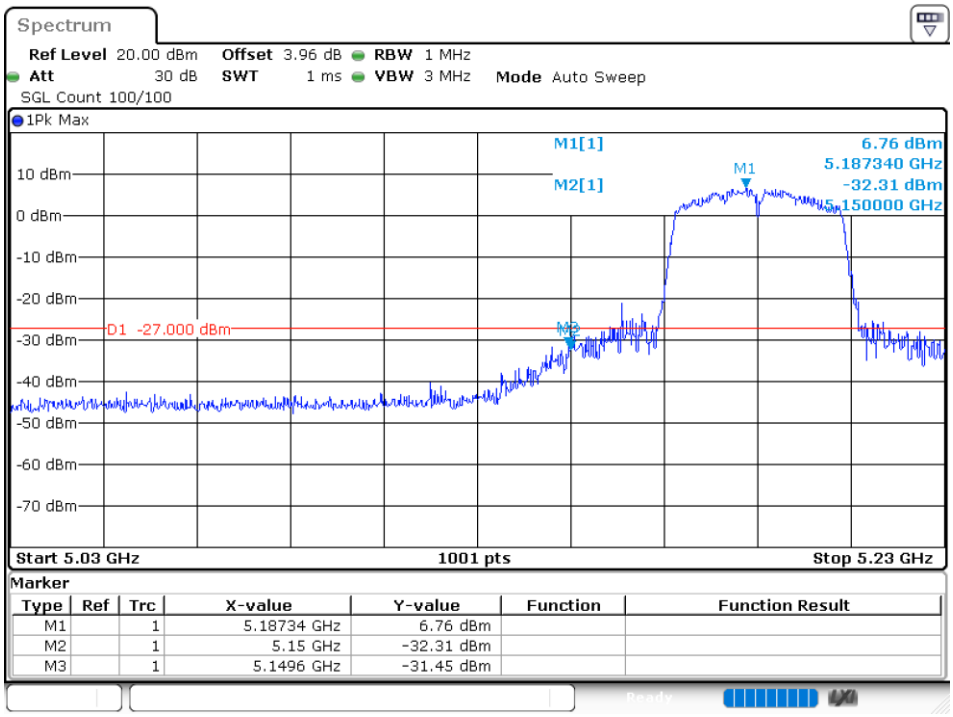
Band Edge NVNT ac20 5180MHz Low Ant1



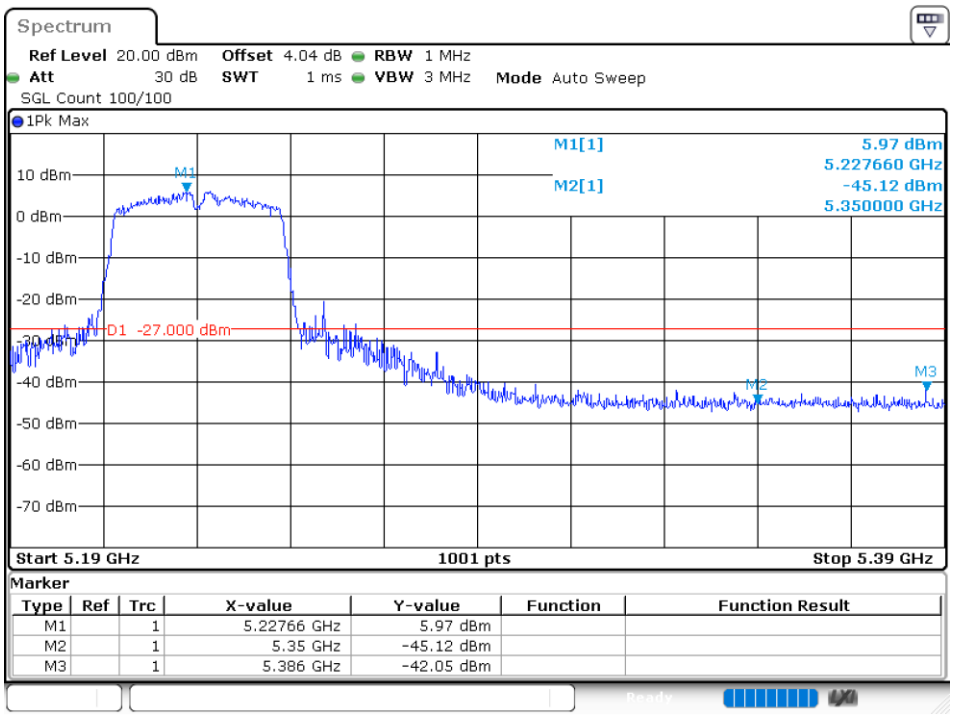

Band Edge NVNT ac20 5240MHz High Ant1



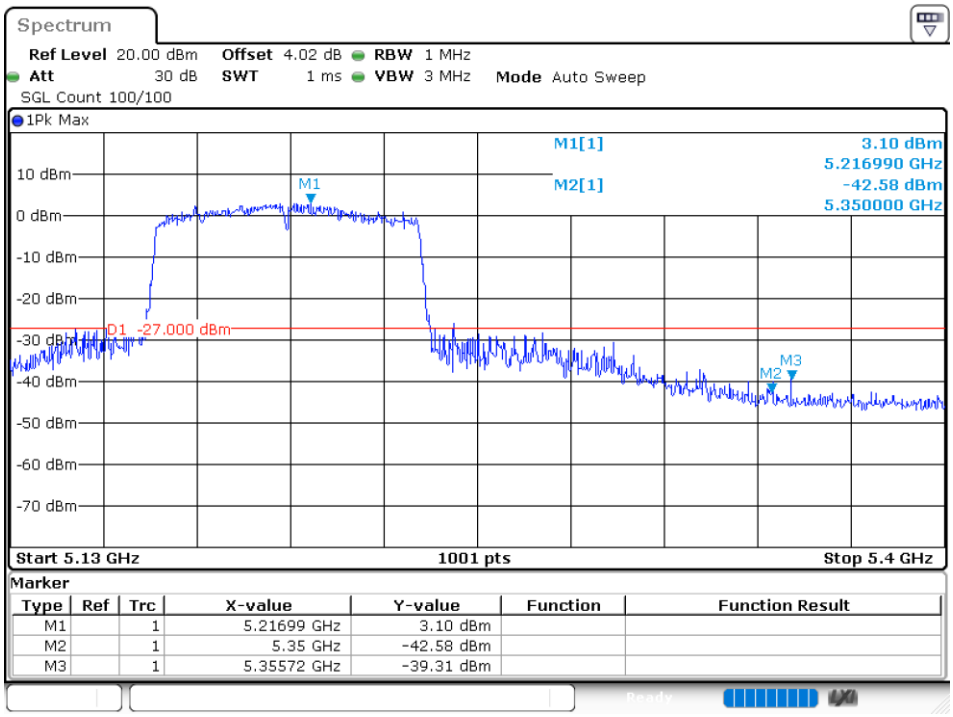
Band Edge NVNT ac40 5190MHz Low Ant1




Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1




Marker

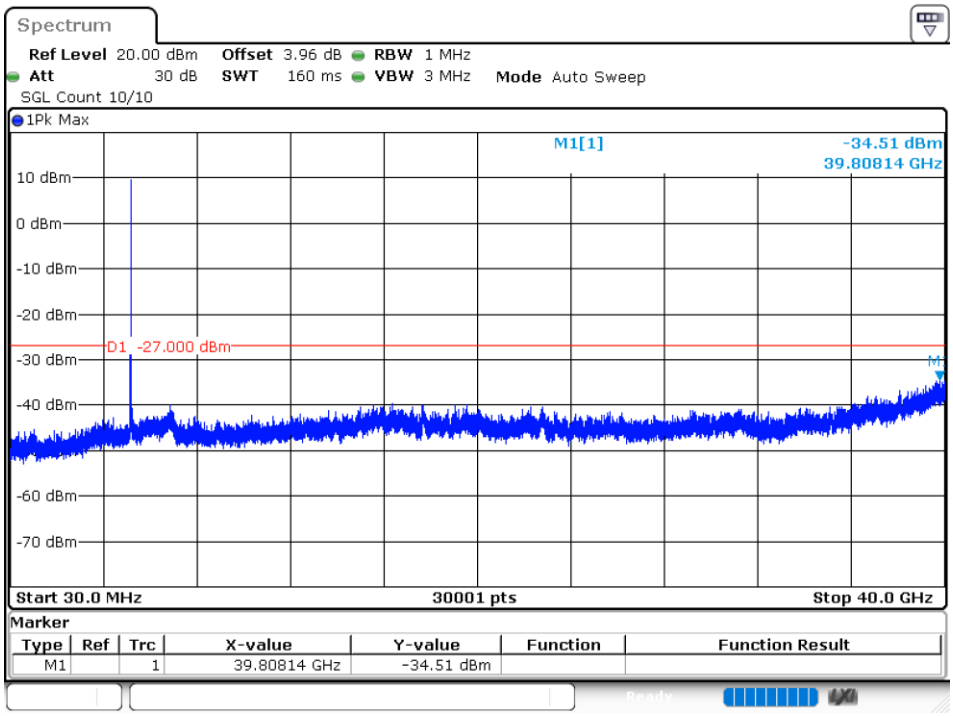
| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.21699 GHz | 3.10 dBm | | |
| M2 | | 1 | 5.35 GHz | -42.58 dBm | | |
| M3 | | 1 | 5.35572 GHz | -39.31 dBm | | |

# Conducted RF Spurious Emission

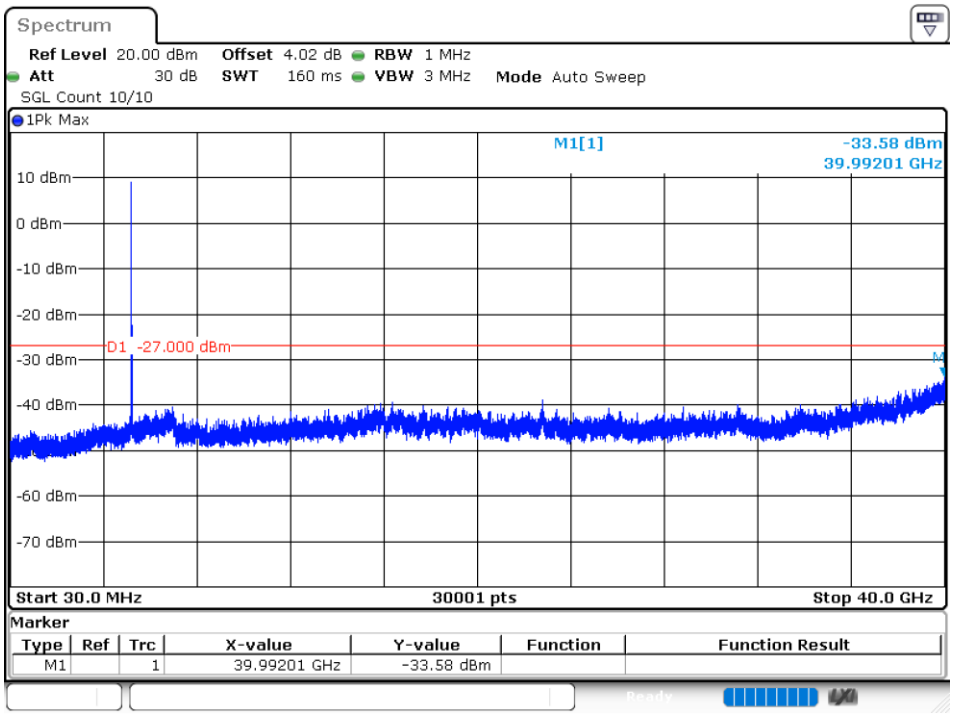
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | -34.5 | -27 | Pass |
| NVNT | a | 5200 | Ant1 | -33.57 | -27 | Pass |
| NVNT | a | 5240 | Ant1 | -34.27 | -27 | Pass |
| NVNT | n20 | 5180 | Ant1 | -34.67 | -27 | Pass |
| NVNT | n20 | 5200 | Ant1 | -34.63 | -27 | Pass |
| NVNT | n20 | 5240 | Ant1 | -35.12 | -27 | Pass |
| NVNT | n40 | 5190 | Ant1 | -34.84 | -27 | Pass |
| NVNT | n40 | 5230 | Ant1 | -34.08 | -27 | Pass |
| NVNT | ac20 | 5180 | Ant1 | -34.07 | -27 | Pass |
| NVNT | ac20 | 5200 | Ant1 | -34.86 | -27 | Pass |
| NVNT | ac20 | 5240 | Ant1 | -34.54 | -27 | Pass |
| NVNT | ac40 | 5190 | Ant1 | -35.26 | -27 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -33.82 | -27 | Pass |
| NVNT | ac80 | 5210 | Ant1 | -34.32 | -27 | Pass |

Test Graphs

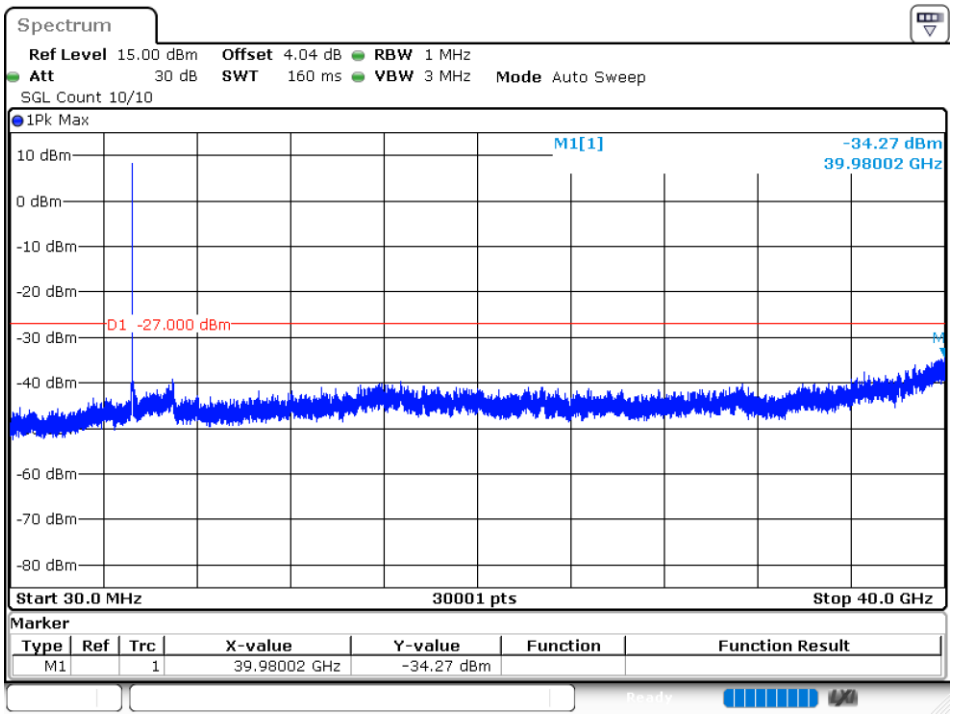
Tx. Spurious NVNT a 5180MHz Ant1 Emission



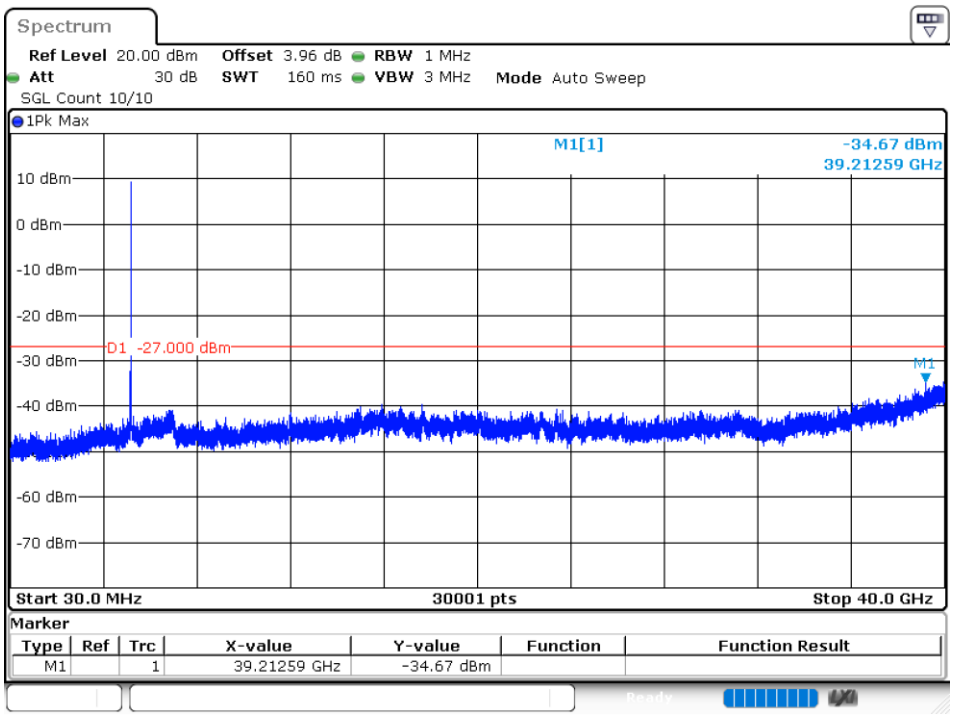

Tx. Spurious NVNT a 5200MHz Ant1 Emission



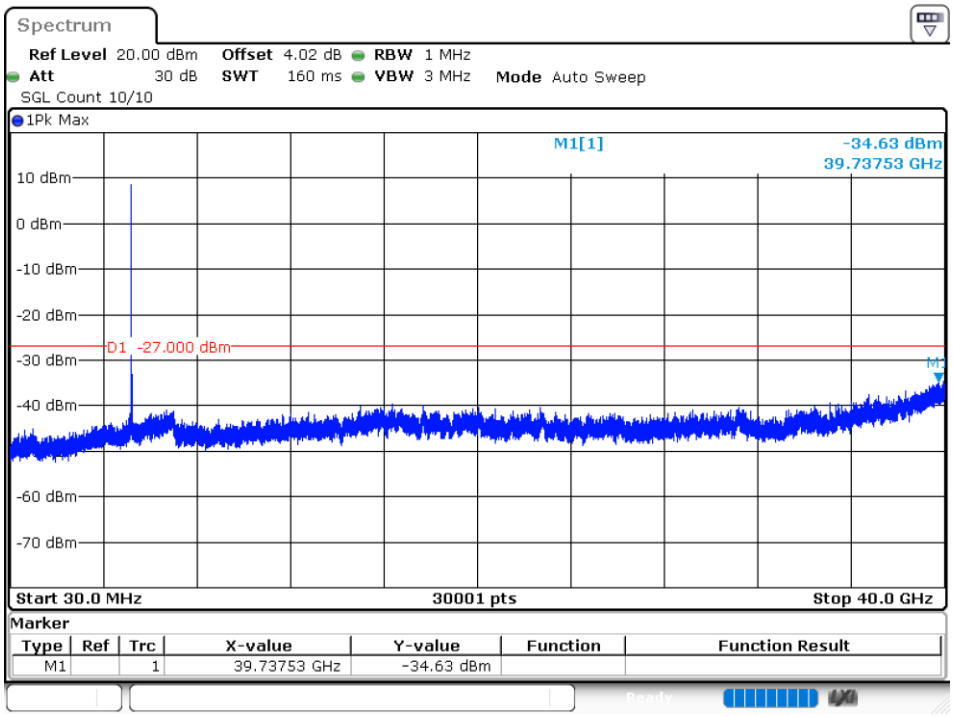
Tx. Spurious NVNT a 5240MHz Ant1 Emission

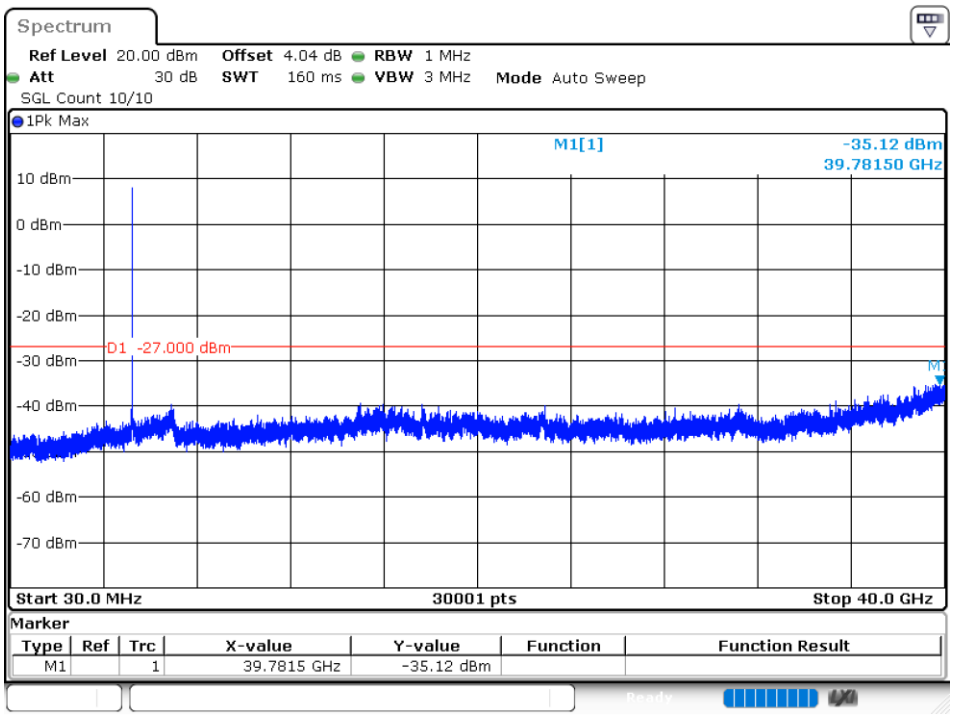



Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission




Tx. Spurious NVNT n20 5240MHz Ant1 Emission