

ANT1

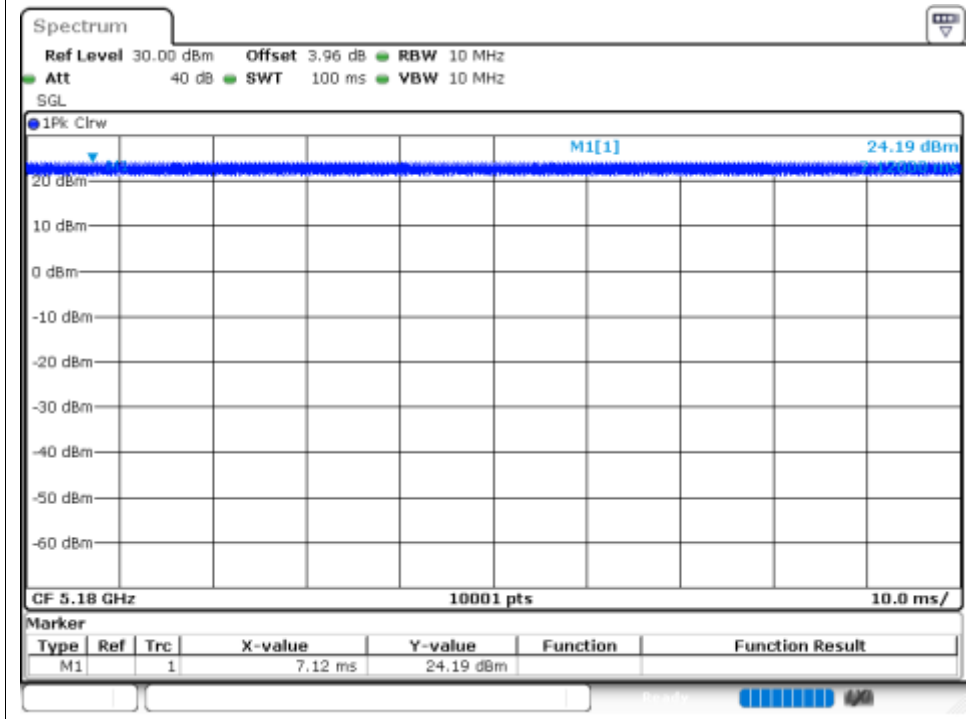
5.2G WIFI

Duty Cycle

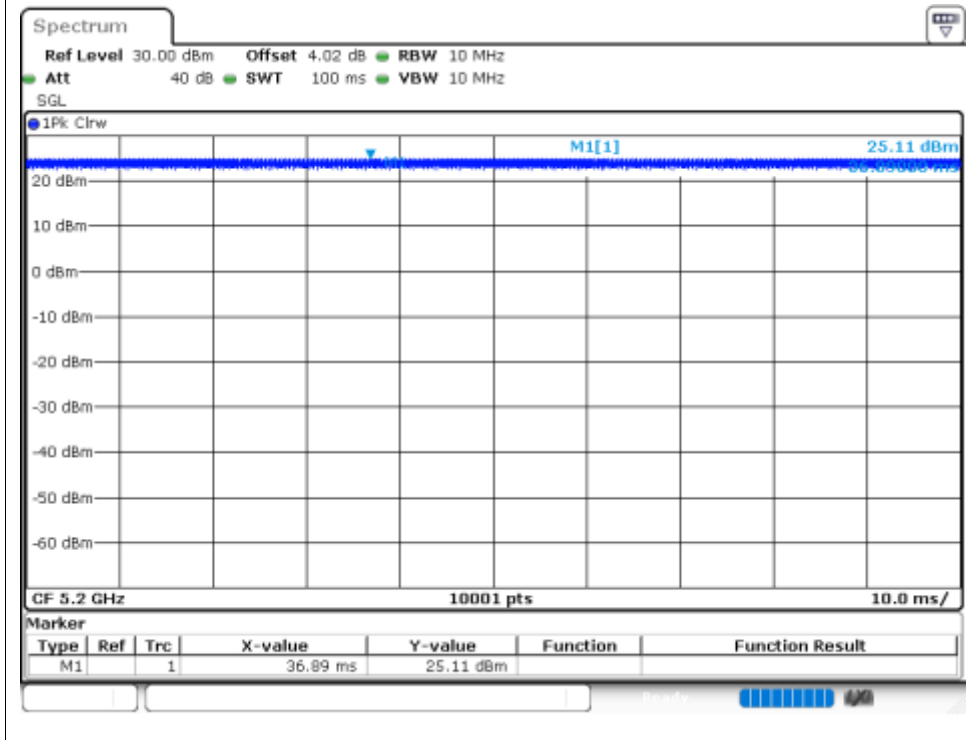
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	100	0	0
NVNT	a	5200	Ant1	100	0	0
NVNT	a	5240	Ant1	100	0	0
NVNT	n20	5180	Ant1	100	0	0
NVNT	n20	5200	Ant1	100	0	0
NVNT	n20	5240	Ant1	100	0	0
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	100	0	0

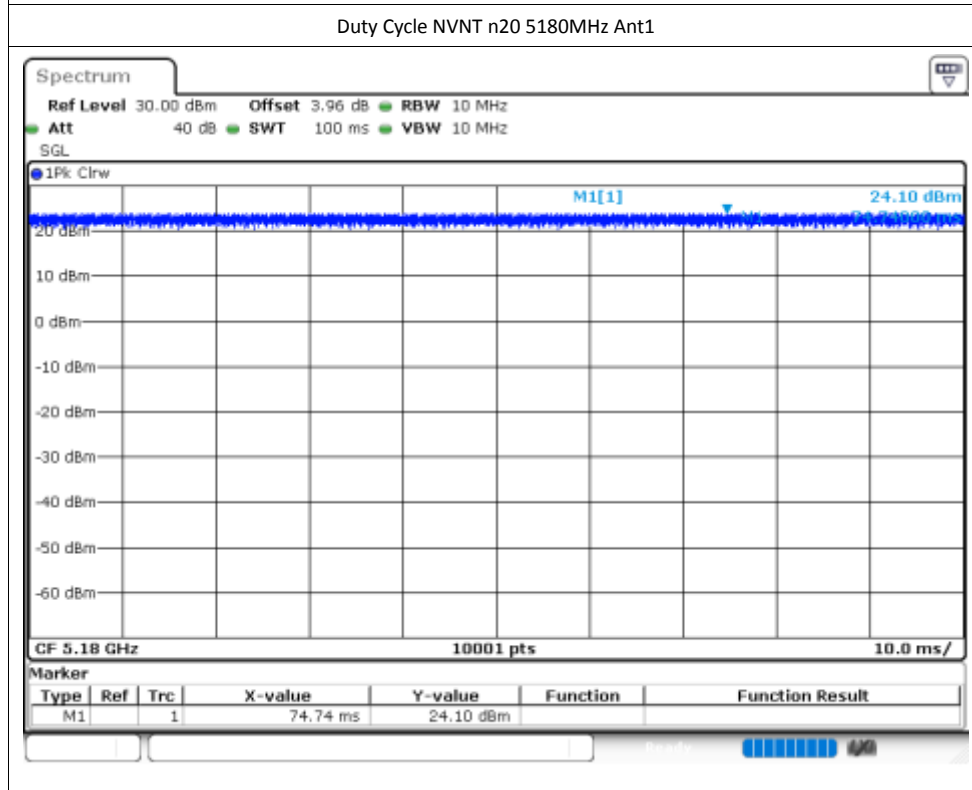
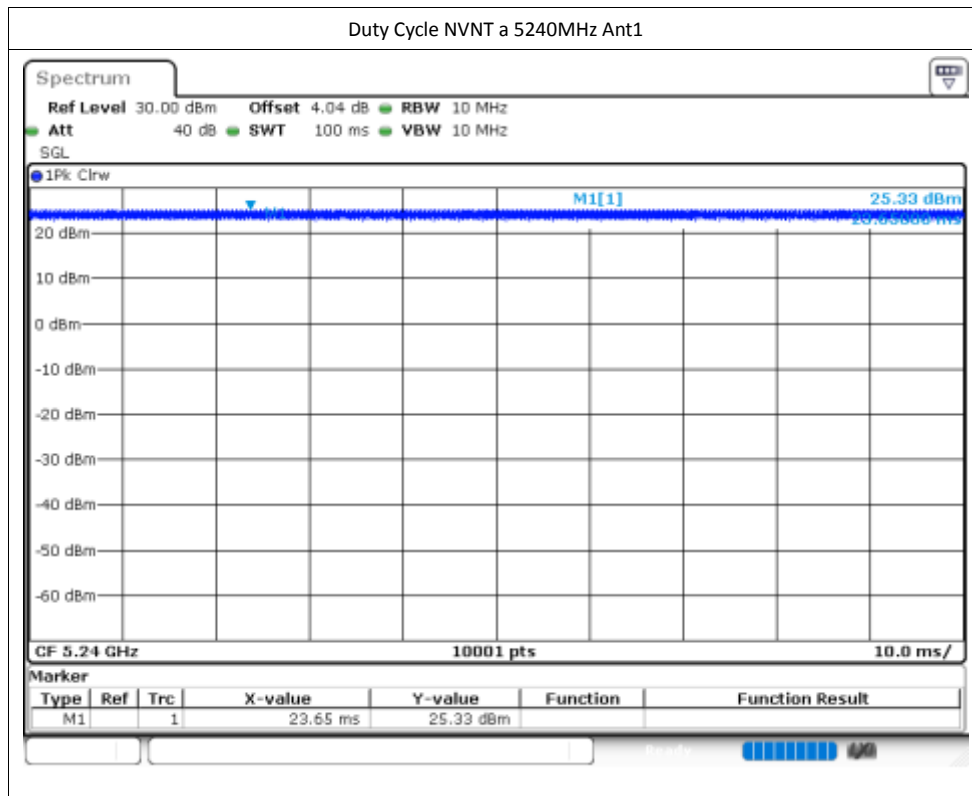
Test Graphs

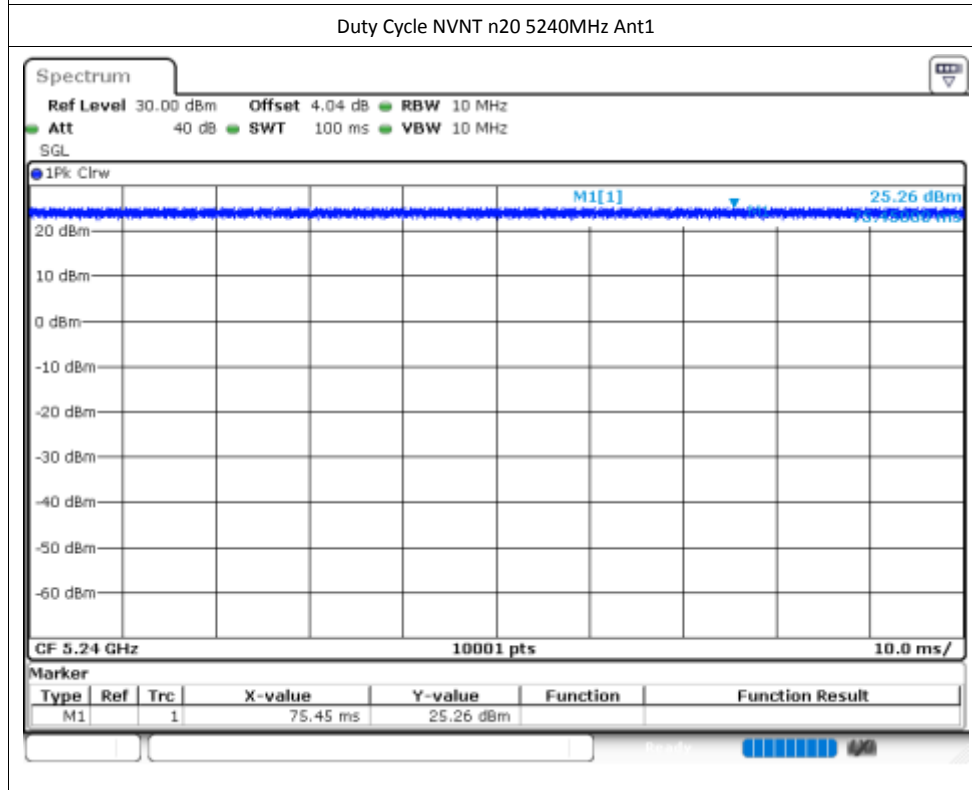
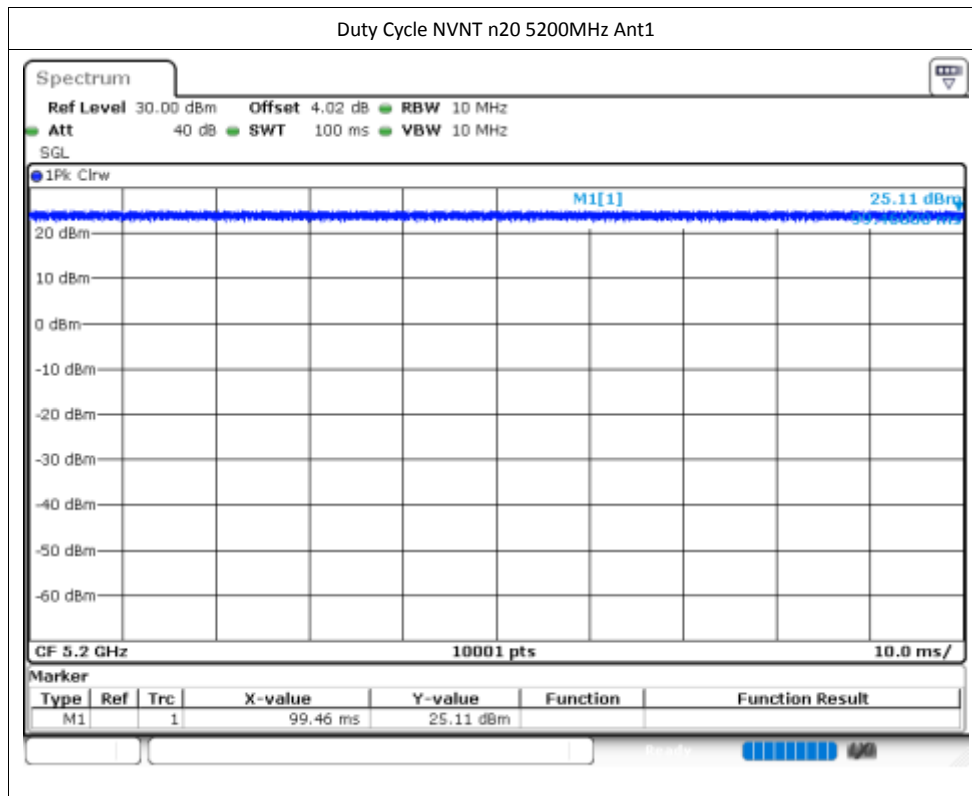
Duty Cycle NVNT a 5180MHz Ant1

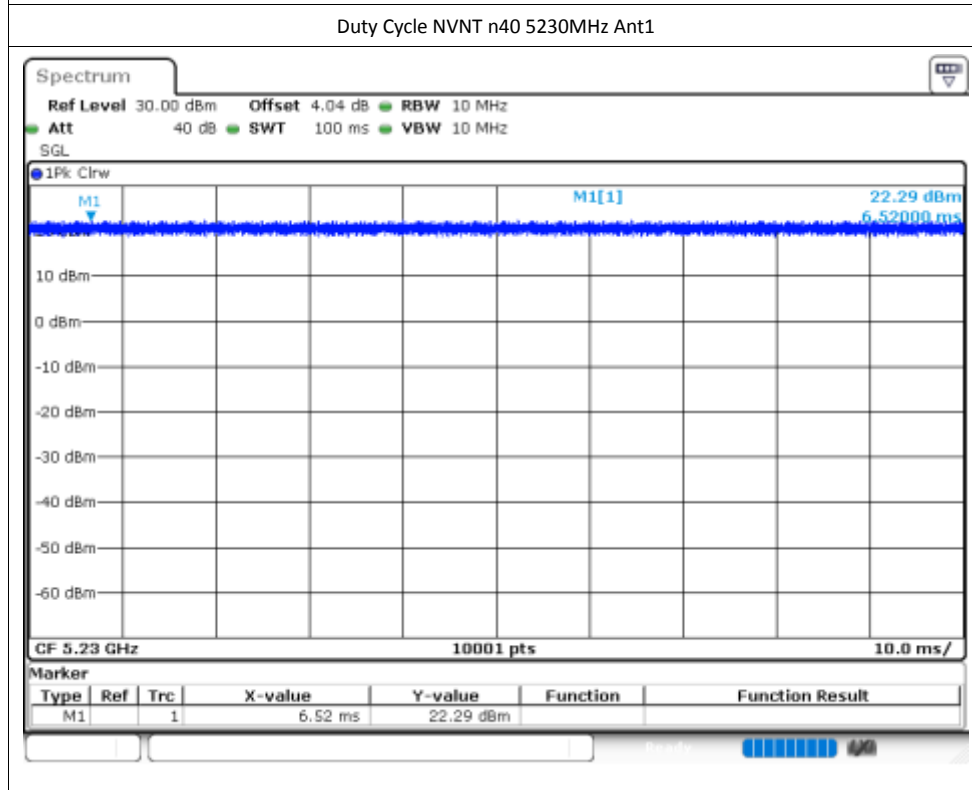
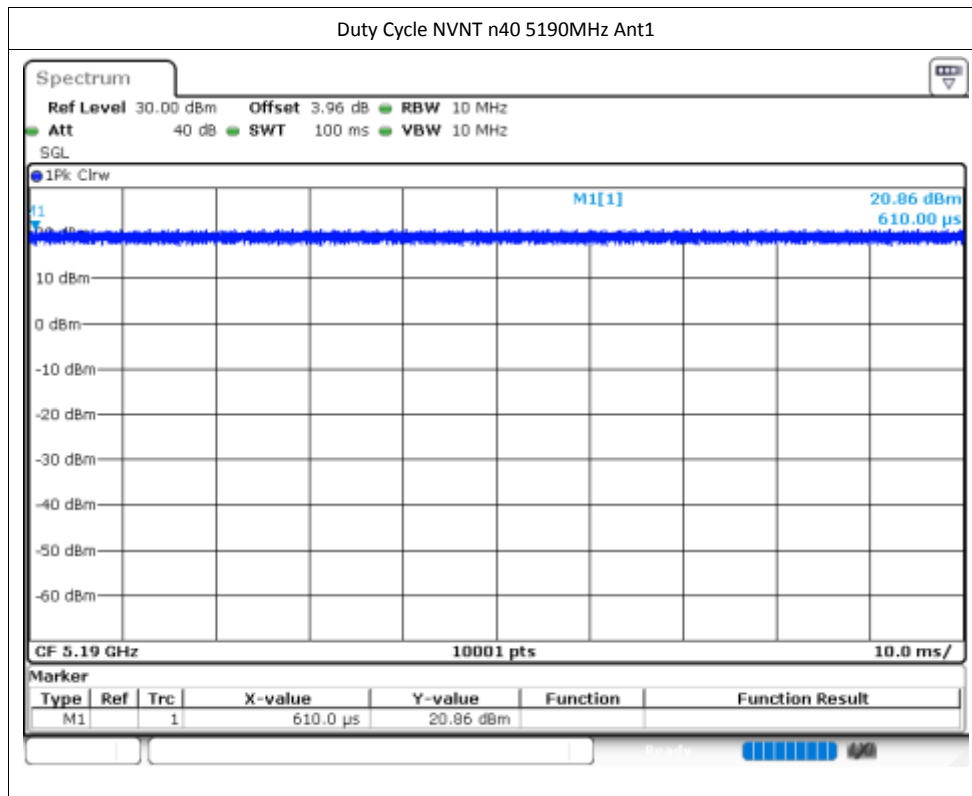


Duty Cycle NVNT a 5200MHz Ant1









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	18.19	24	Pass
NVNT	a	5200	Ant1	18.92	24	Pass
NVNT	a	5240	Ant1	18.9	24	Pass
NVNT	n20	5180	Ant1	17.95	24	Pass
NVNT	n20	5200	Ant1	18.79	24	Pass
NVNT	n20	5240	Ant1	18.6	24	Pass
NVNT	n40	5190	Ant1	17.01	24	Pass
NVNT	n40	5230	Ant1	17.23	24	Pass

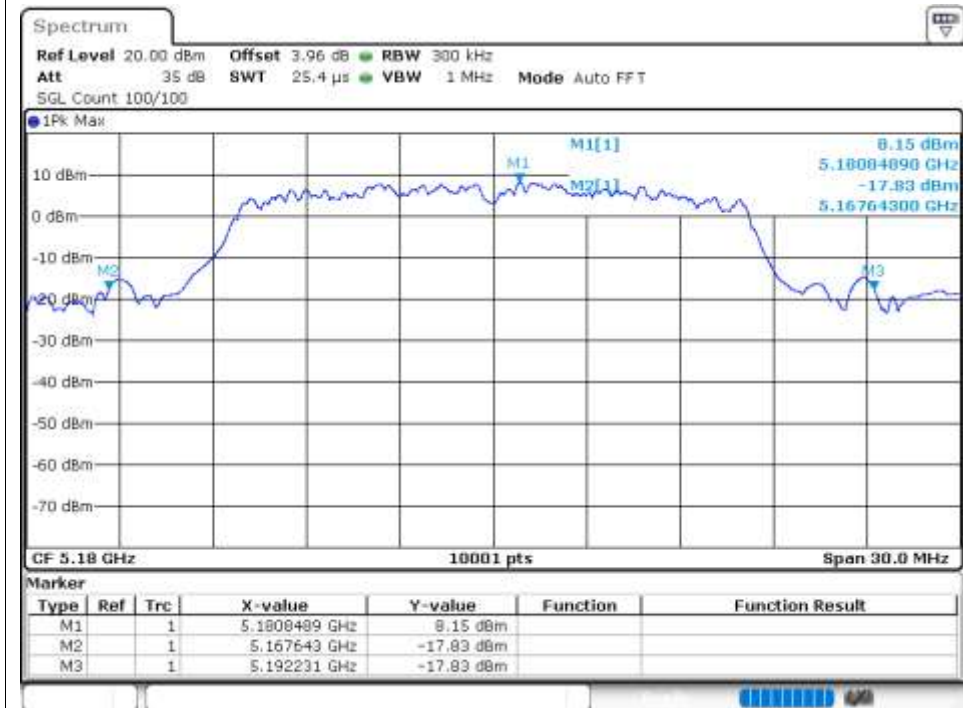
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

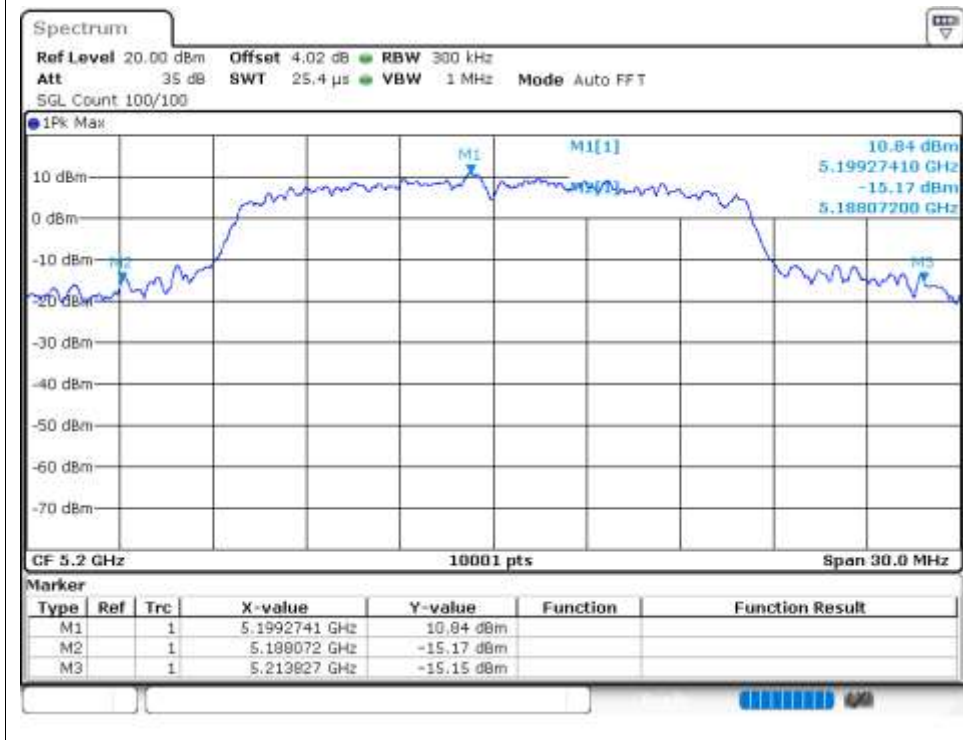
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	24.588	Pass
NVNT	a	5200	Ant1	25.755	Pass
NVNT	a	5240	Ant1	26.67	Pass
NVNT	n20	5180	Ant1	20.37	Pass
NVNT	n20	5200	Ant1	25.878	Pass
NVNT	n20	5240	Ant1	27.714	Pass
NVNT	n40	5190	Ant1	38.472	Pass
NVNT	n40	5230	Ant1	38.358	Pass

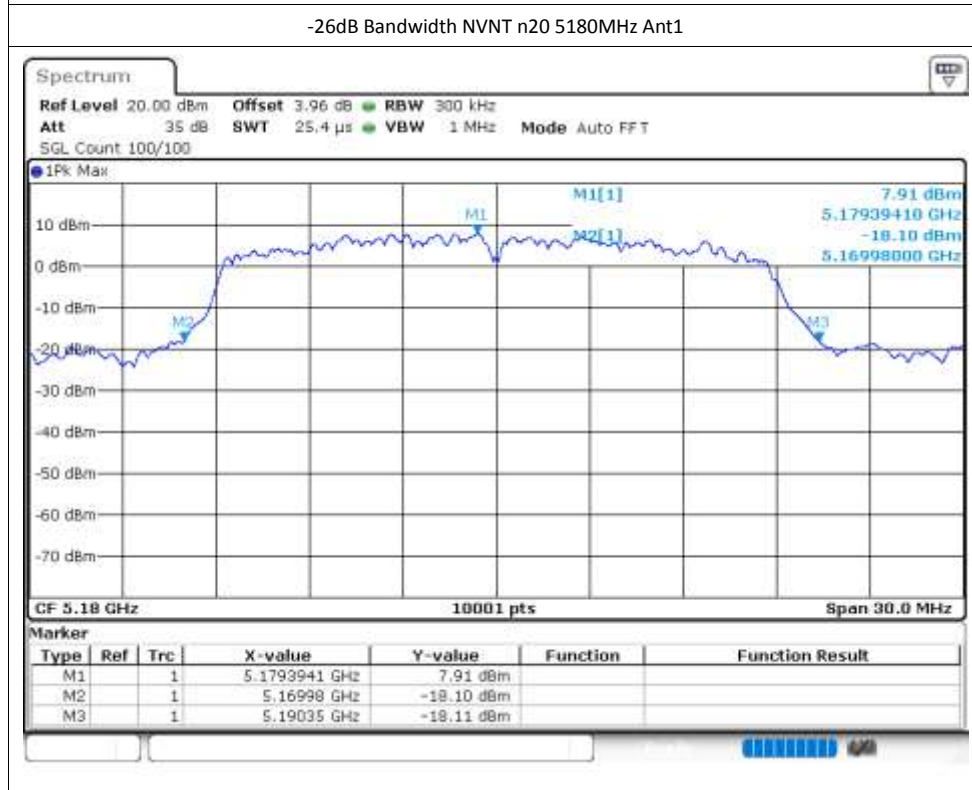
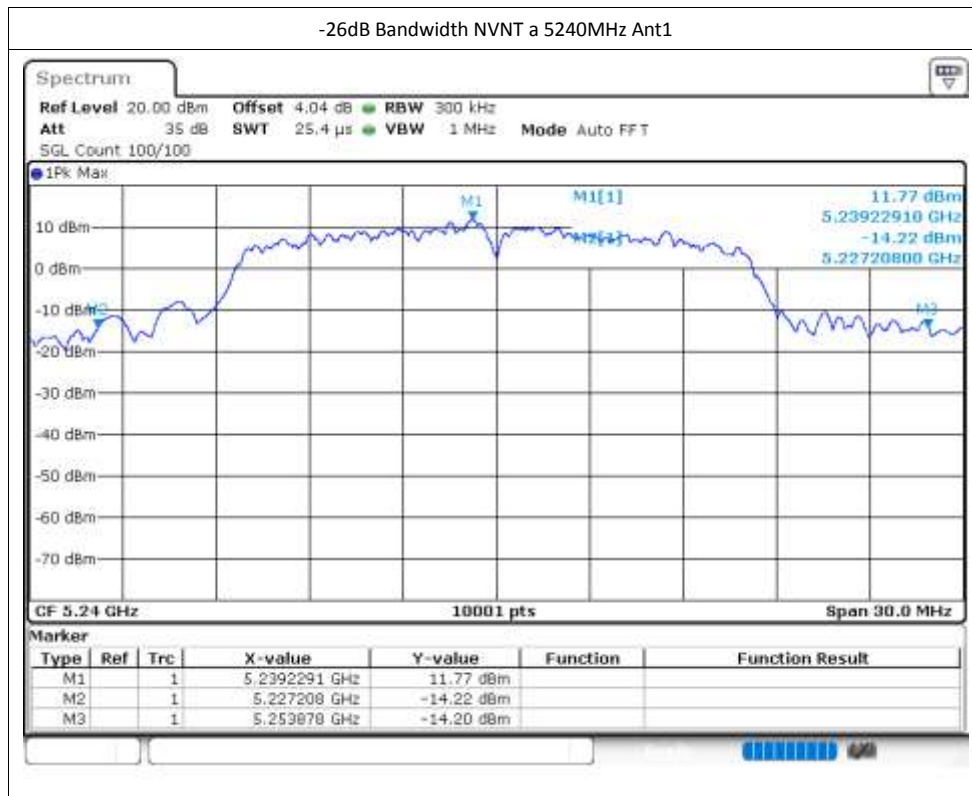
Test Graphs

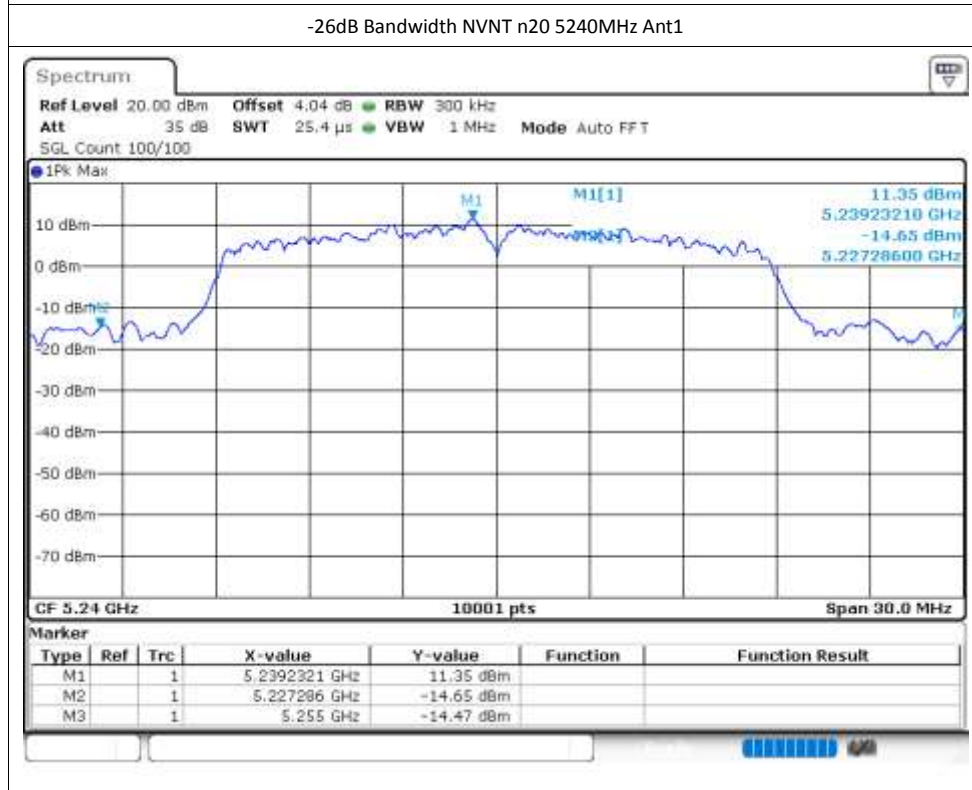
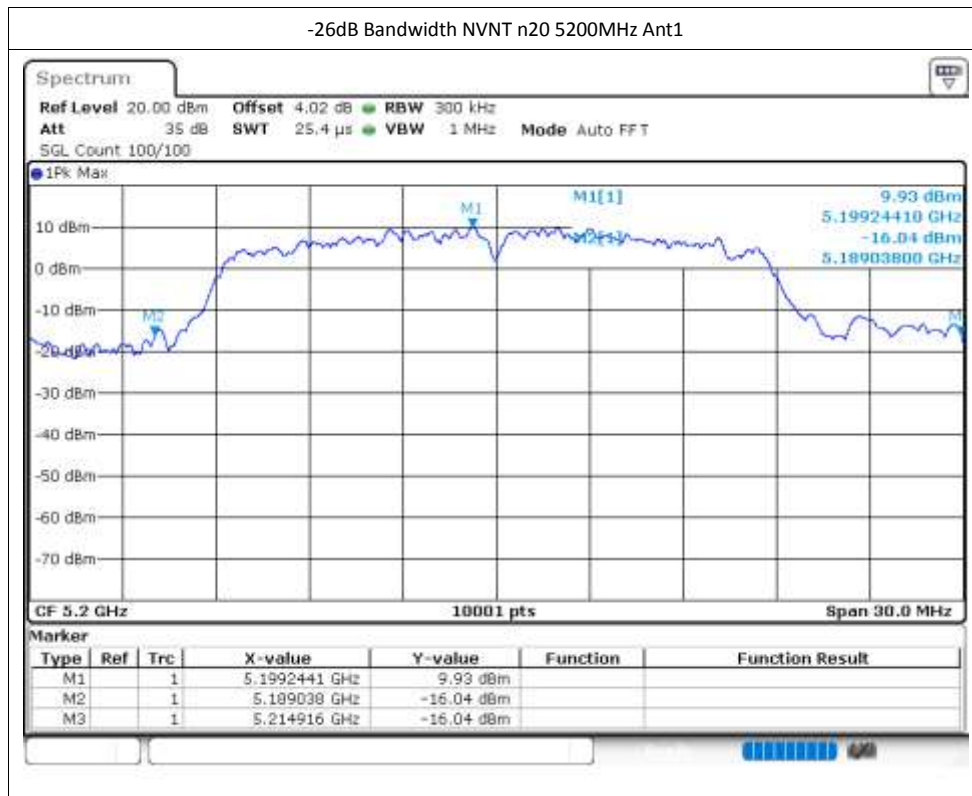
-26dB Bandwidth NVNT a 5180MHz Ant1

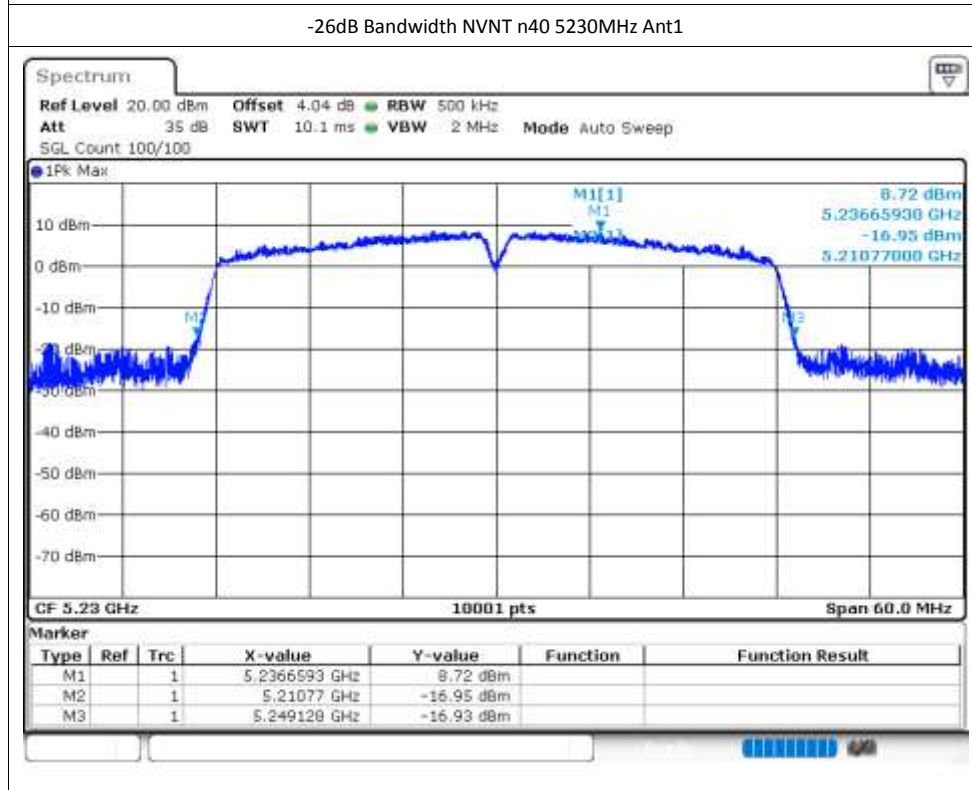
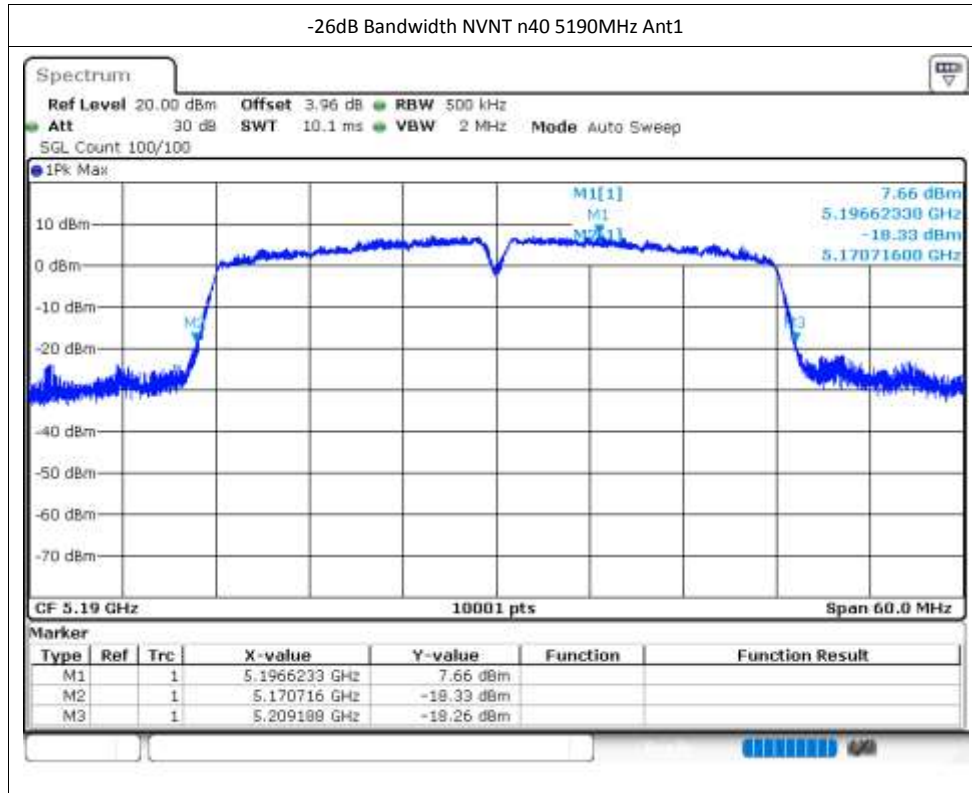


-26dB Bandwidth NVNT a 5200MHz Ant1







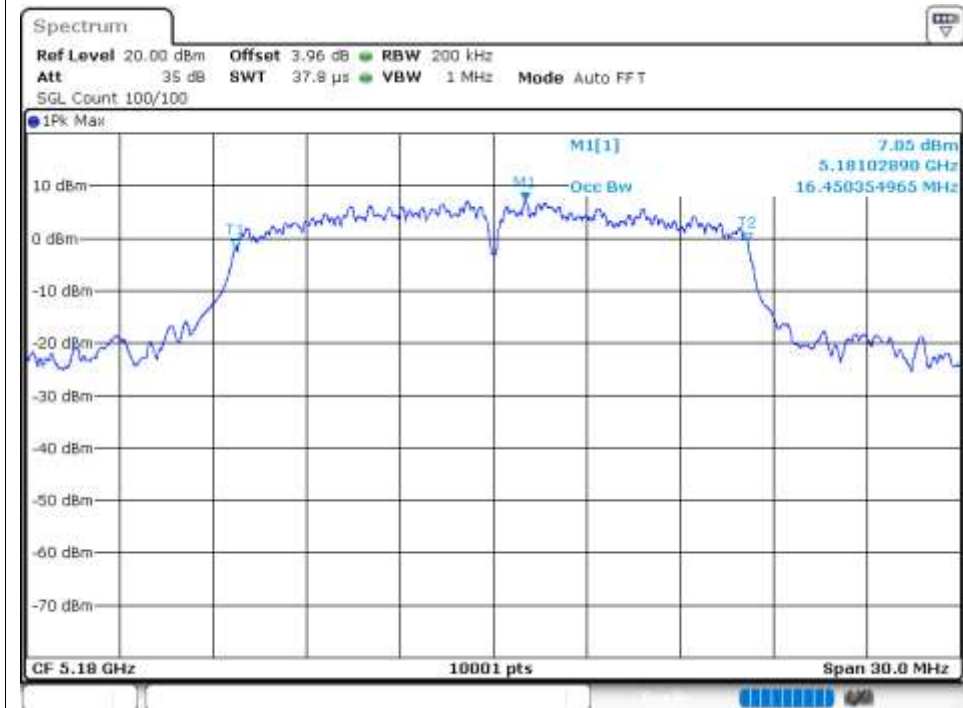


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.45
NVNT	a	5200	Ant1	16.459
NVNT	a	5240	Ant1	16.501
NVNT	n20	5180	Ant1	17.476
NVNT	n20	5200	Ant1	17.551
NVNT	n20	5240	Ant1	17.539
NVNT	n40	5190	Ant1	35.48
NVNT	n40	5230	Ant1	35.402

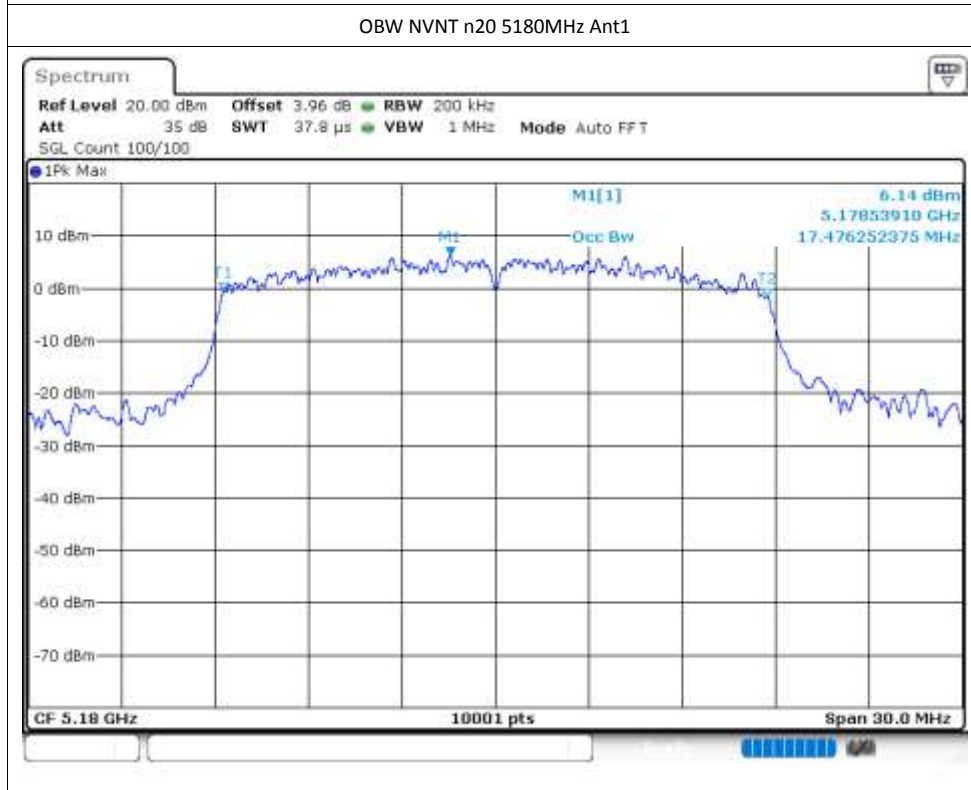
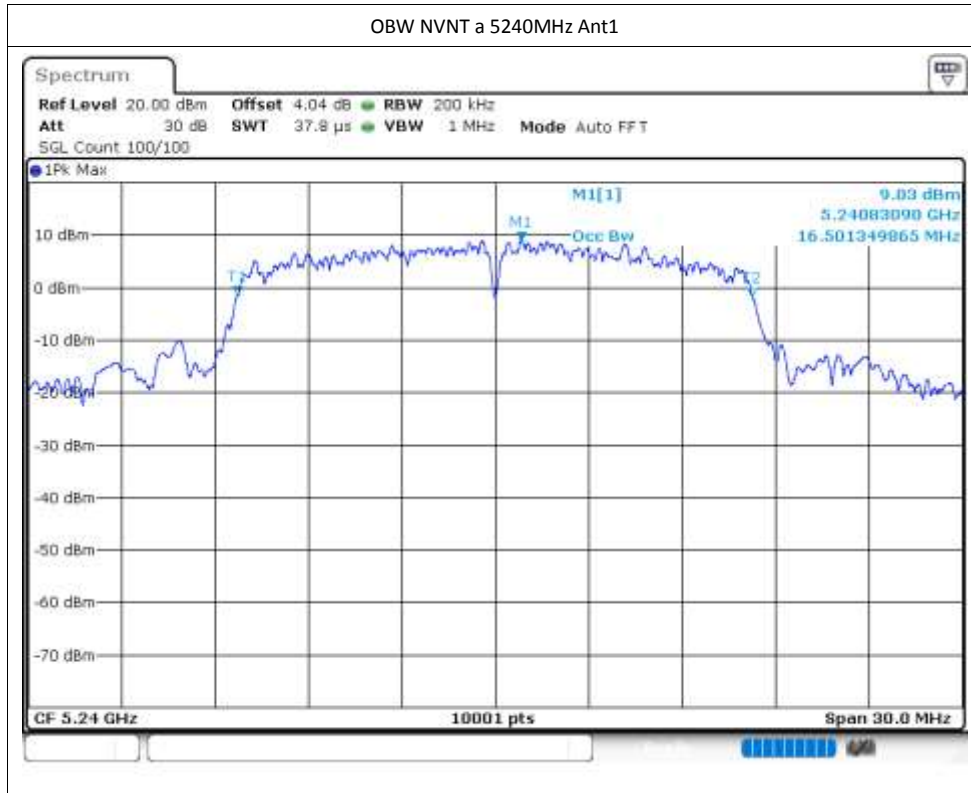
Test Graphs

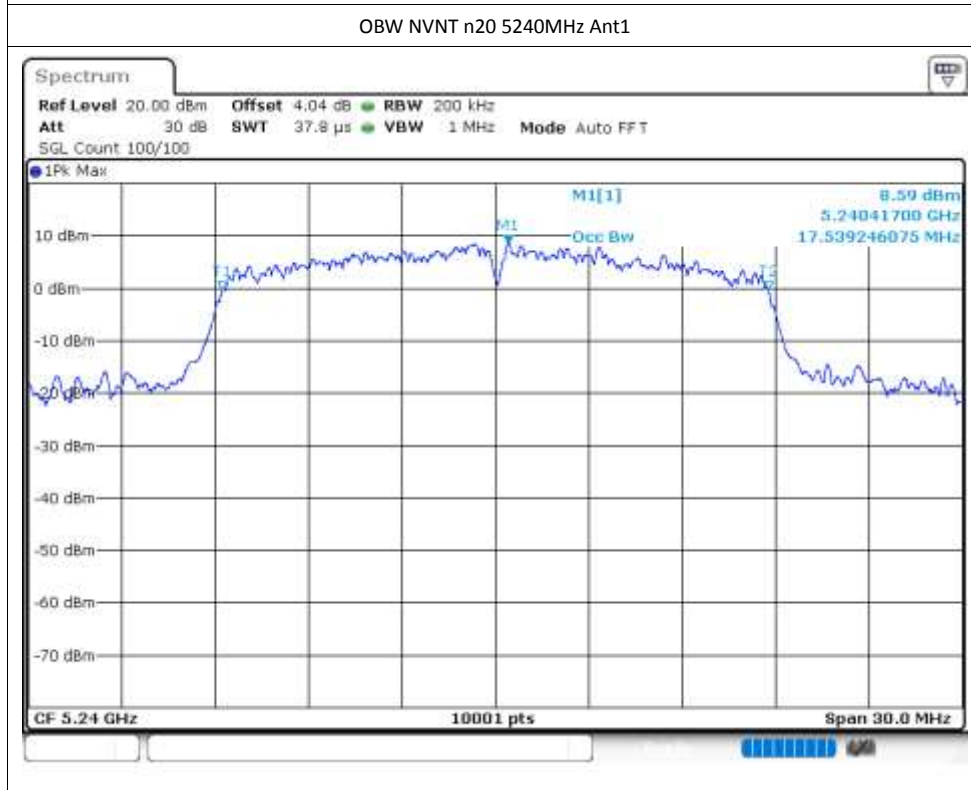
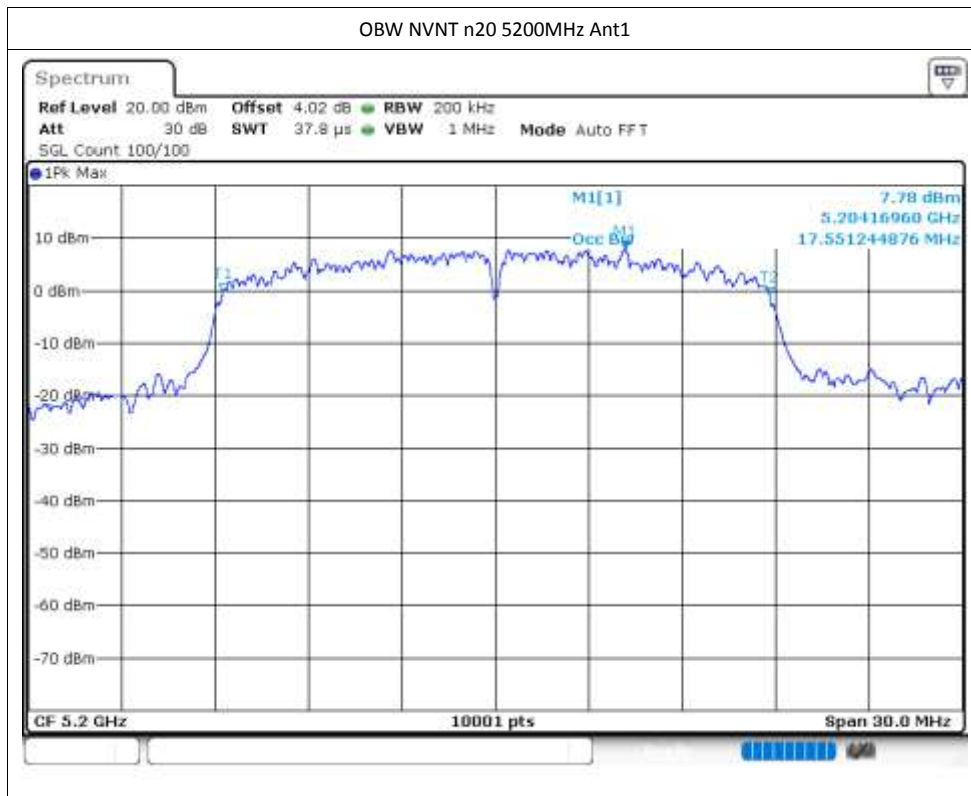
OBW NVNT a 5180MHz Ant1

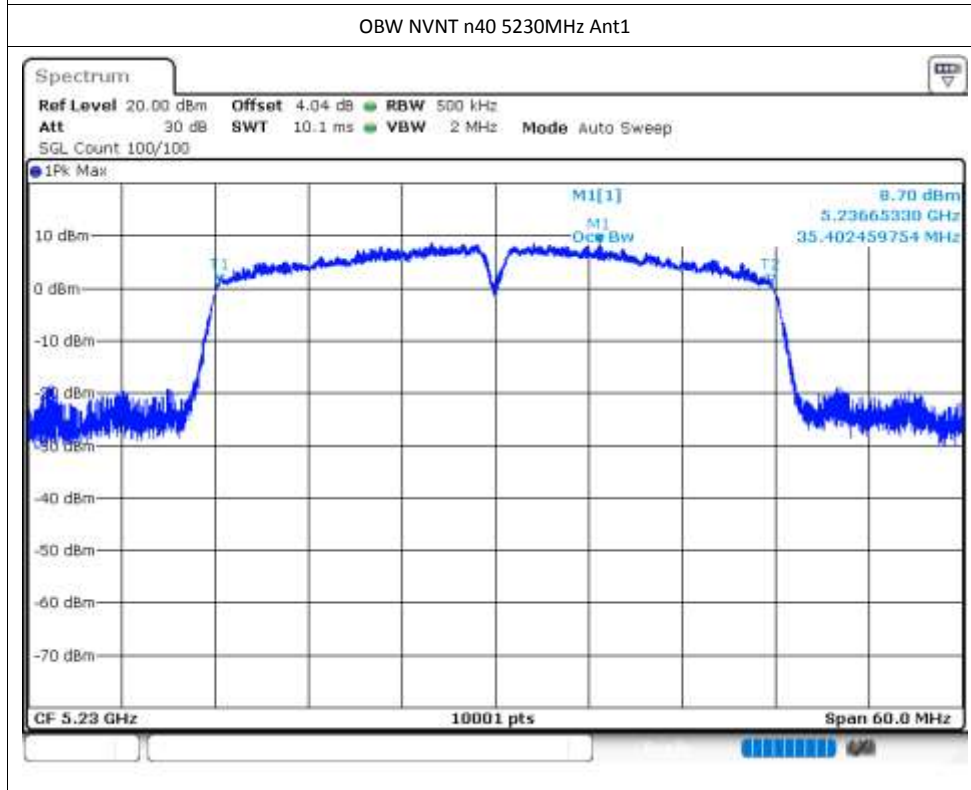
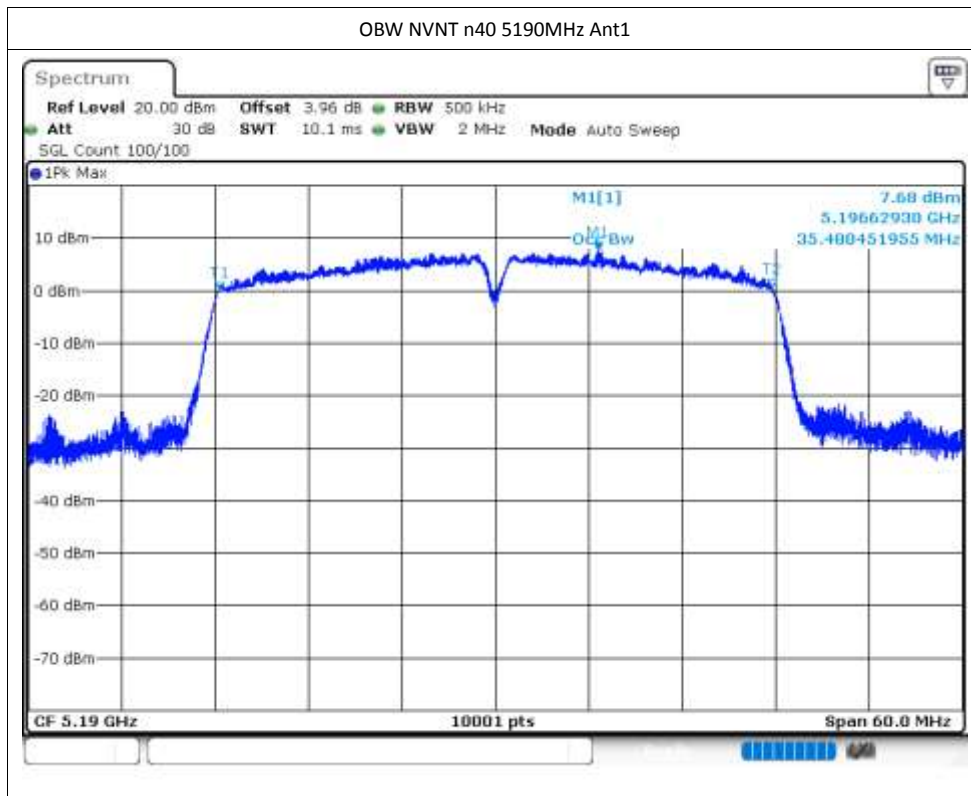


OBW NVNT a 5200MHz Ant1







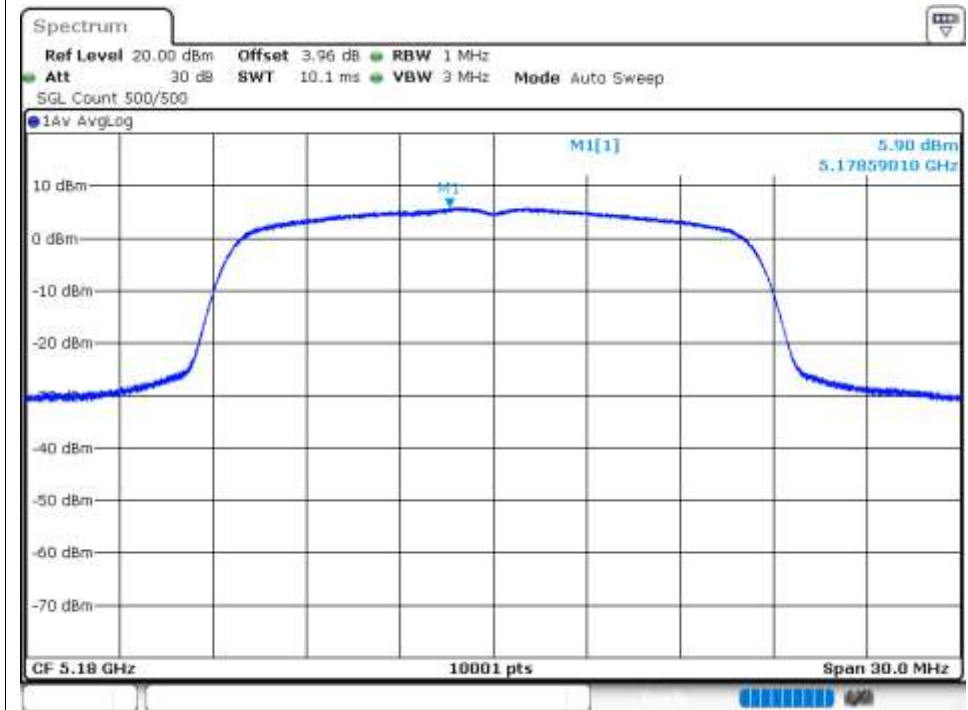


Maximum Power Spectral Density Level

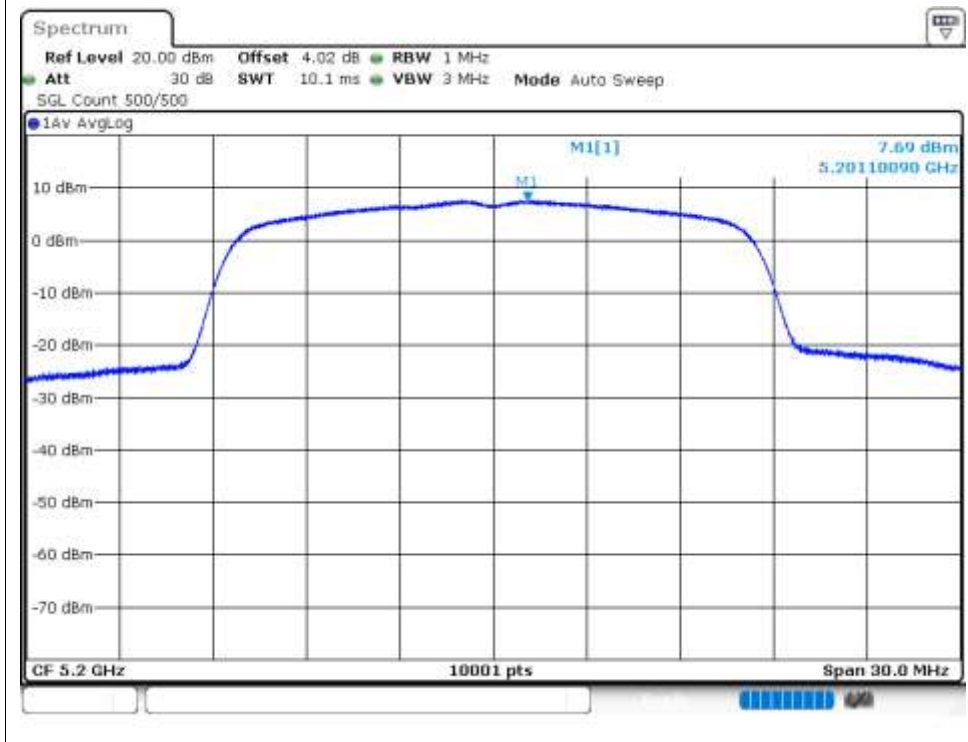
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.9	0	5.9	11	Pass
NVNT	a	5200	Ant1	7.69	0	7.69	11	Pass
NVNT	a	5240	Ant1	8.04	0	8.04	11	Pass
NVNT	n20	5180	Ant1	5.3	0	5.3	11	Pass
NVNT	n20	5200	Ant1	7.05	0	7.05	11	Pass
NVNT	n20	5240	Ant1	7.22	0	7.22	11	Pass
NVNT	n40	5190	Ant1	1.9	0	1.9	11	Pass
NVNT	n40	5230	Ant1	3.21	0	3.21	11	Pass

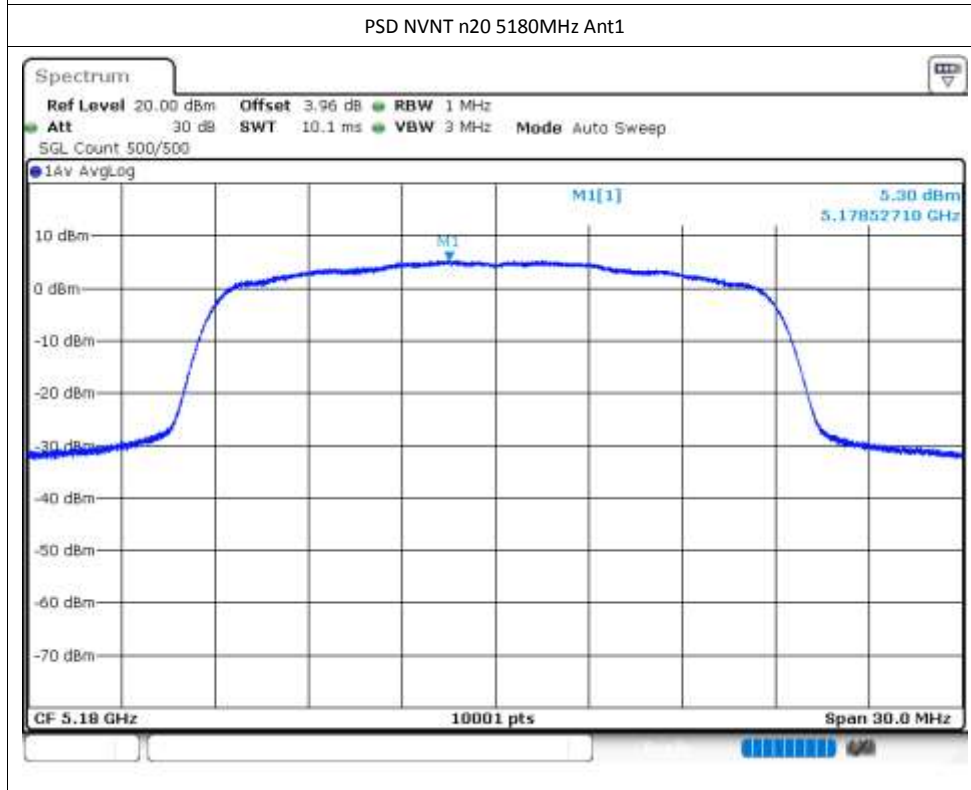
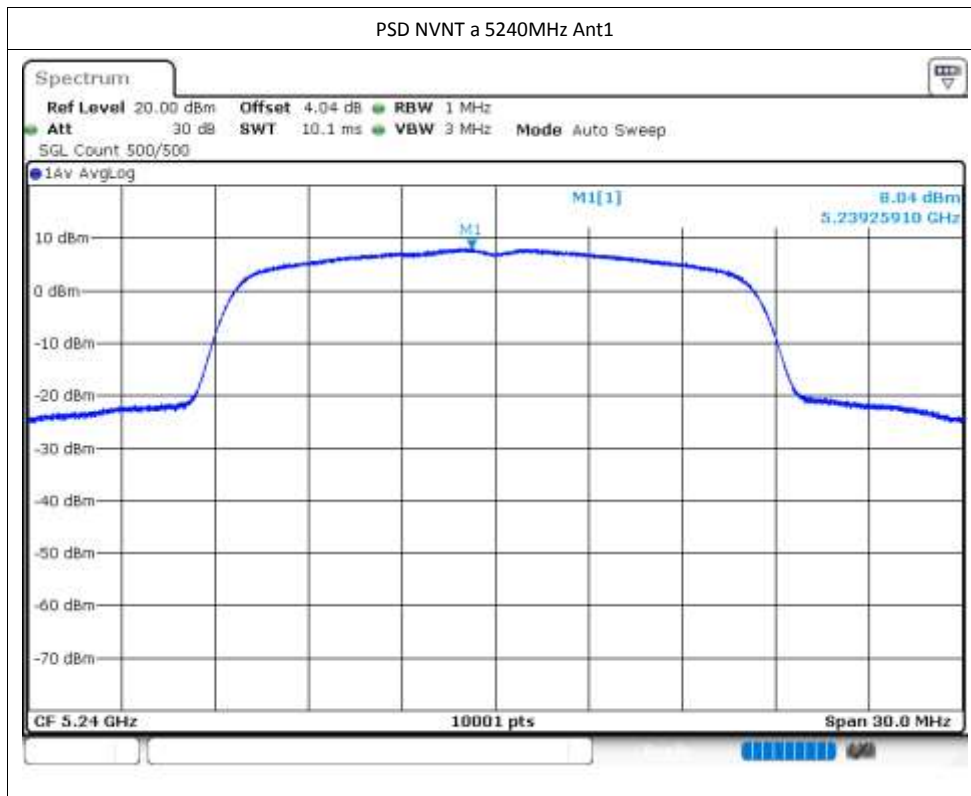
Test Graphs

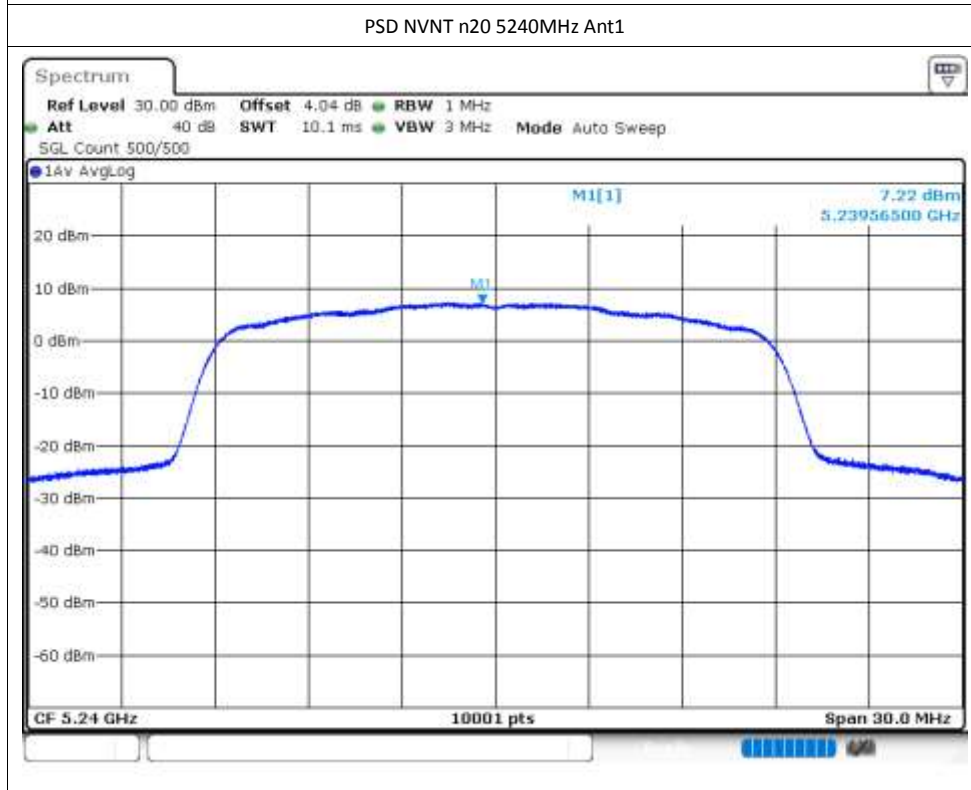
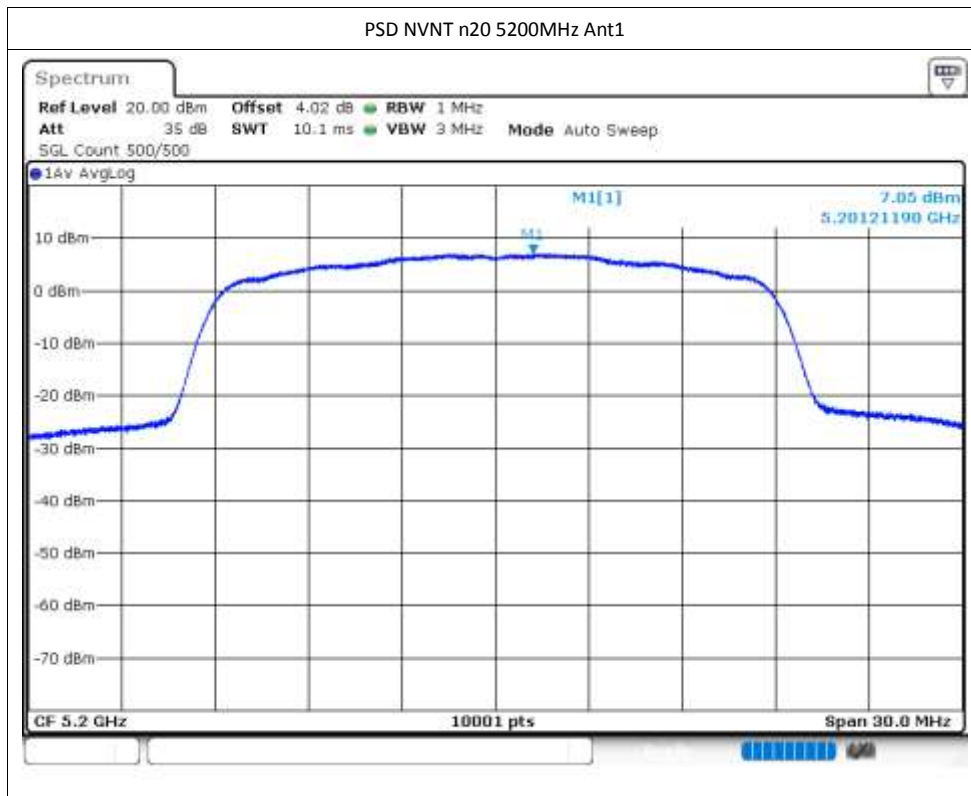
PSD NVNT a 5180MHz Ant1

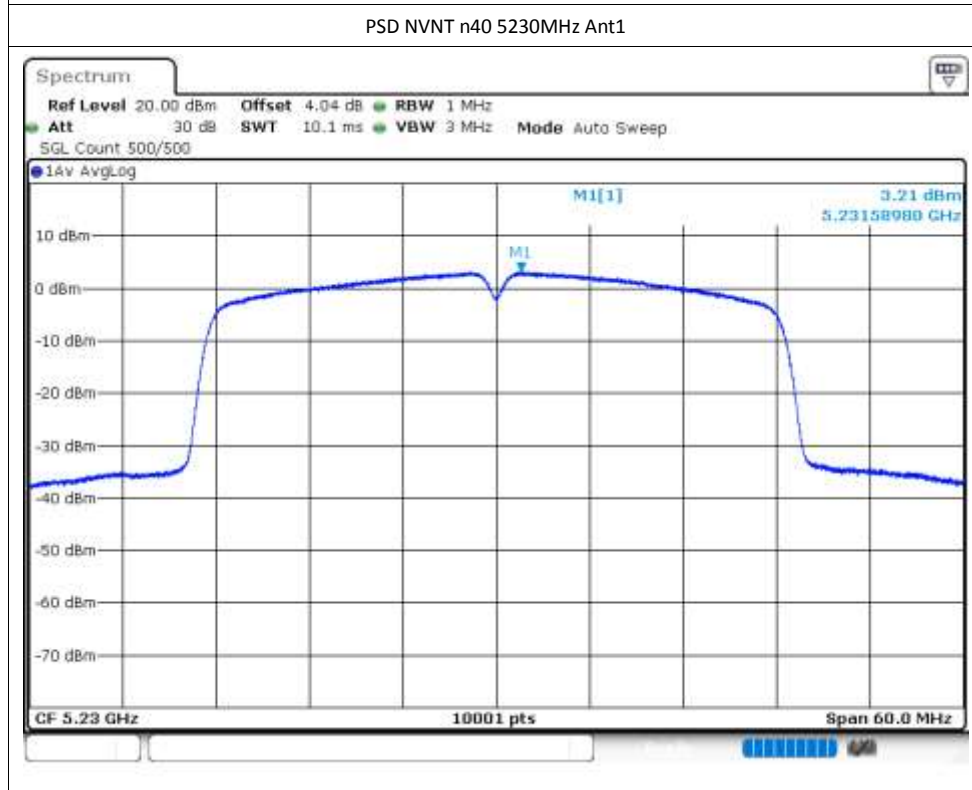
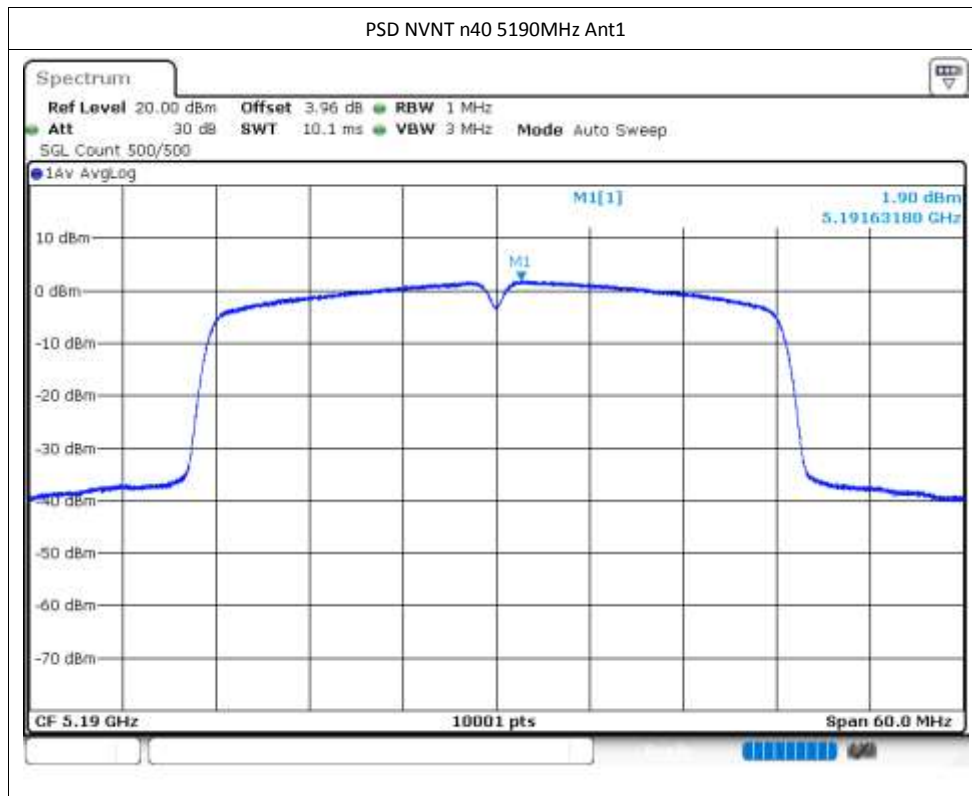


PSD NVNT a 5200MHz Ant1









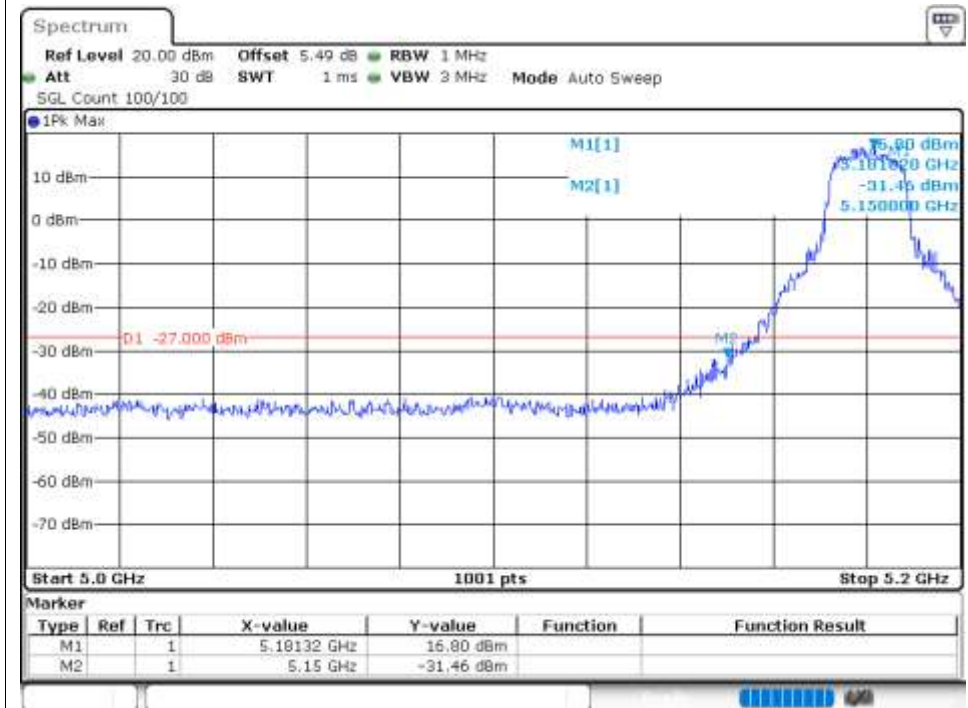
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-31.46	-27	Pass
NVNT	a	5240	Ant1	-41.04	-27	Pass
NVNT	n20	5180	Ant1	-28.9	-27	Pass
NVNT	n20	5240	Ant1	-40.86	-27	Pass
NVNT	n40	5190	Ant1	-31.31	-27	Pass
NVNT	n40	5230	Ant1	-42.18	-27	Pass

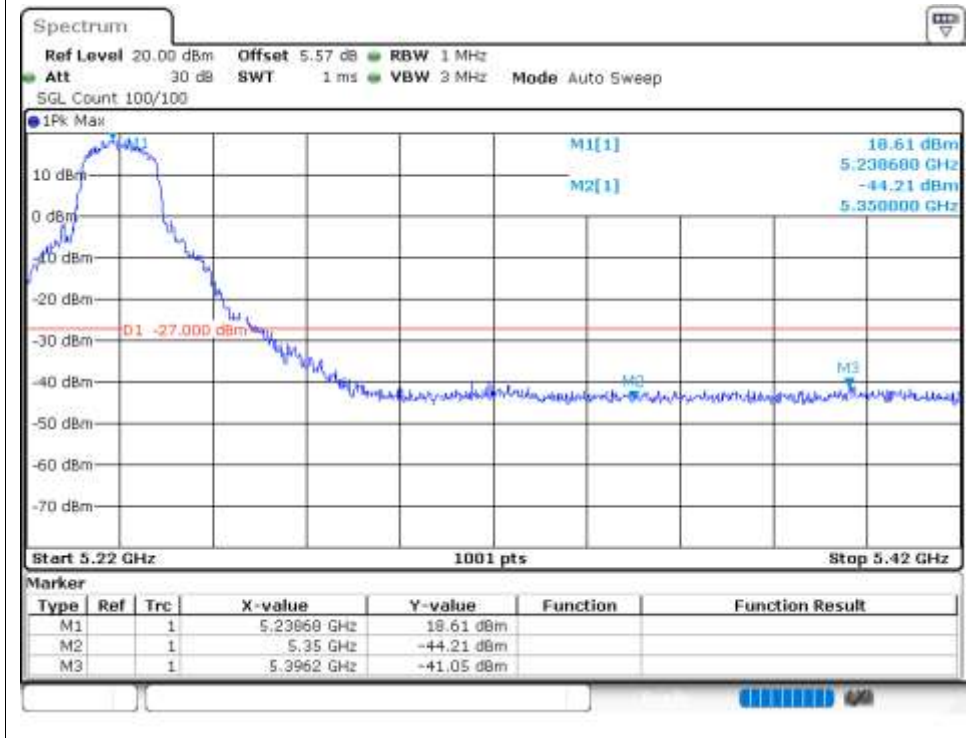
Note: This test has increased antenna gain .

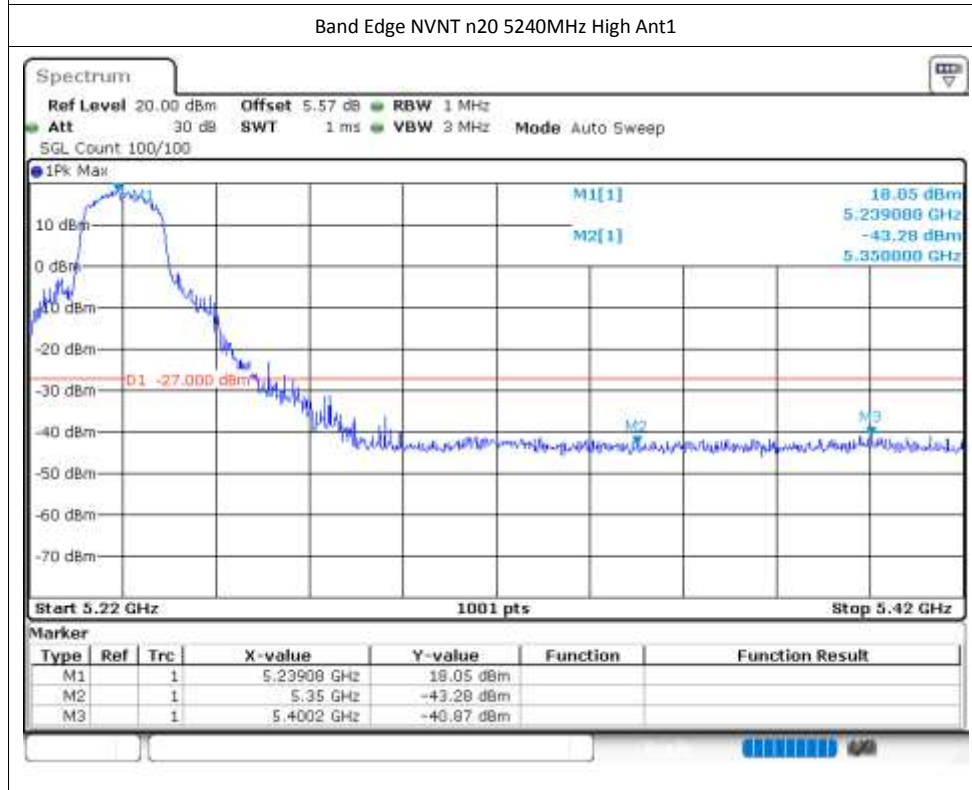
Test Graphs

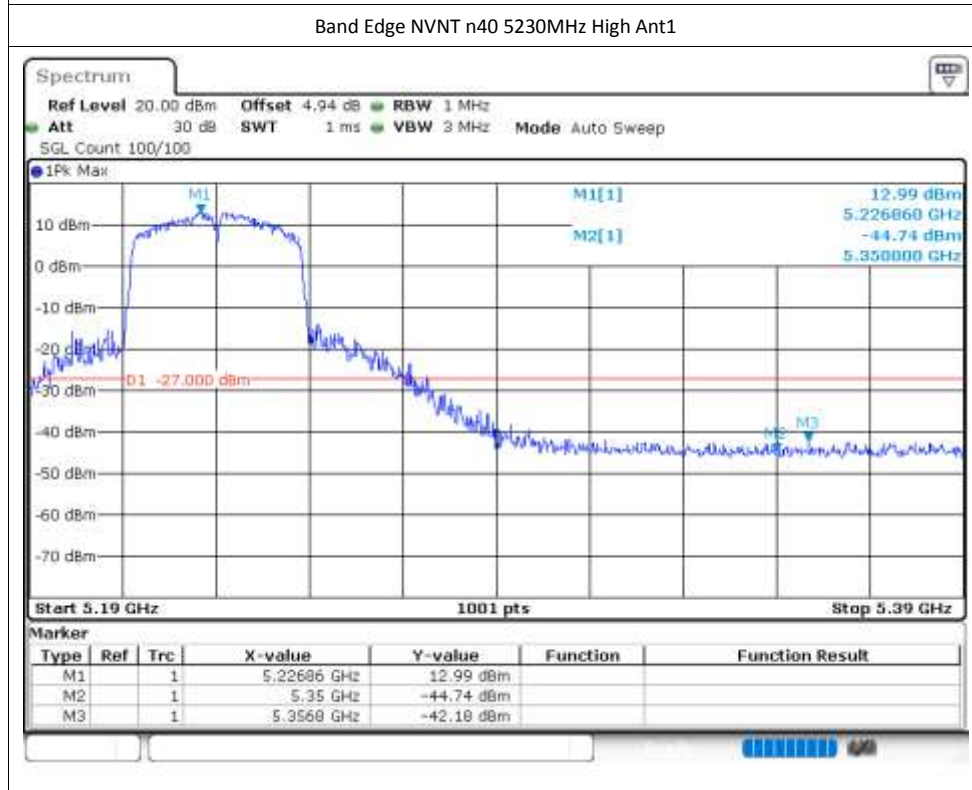
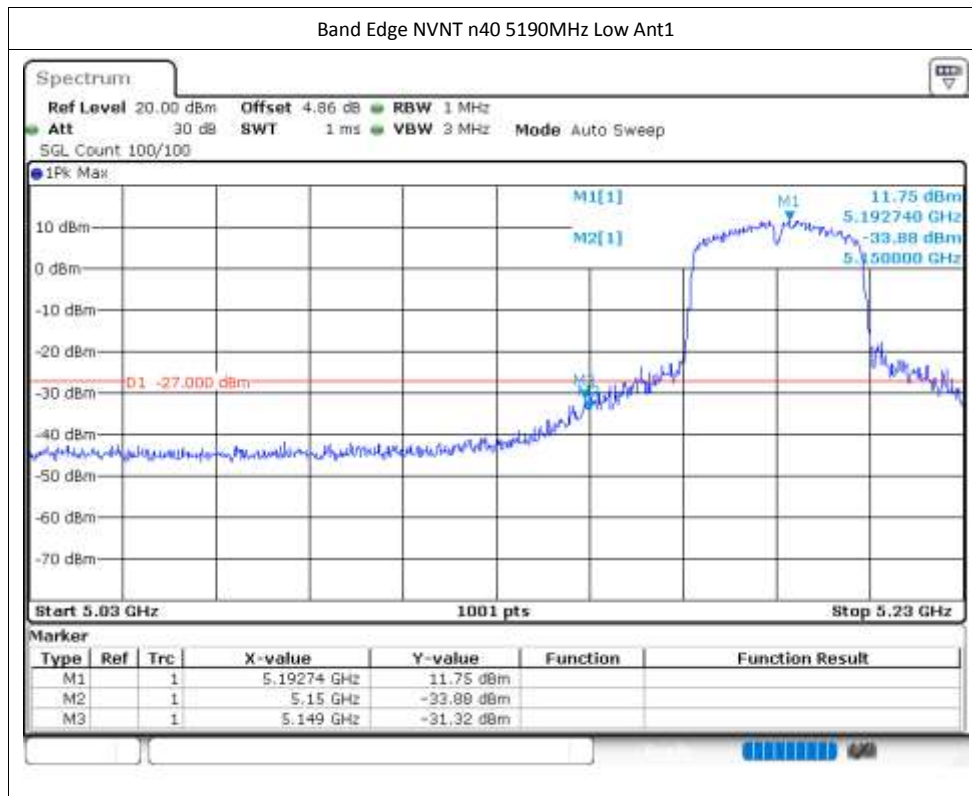
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1







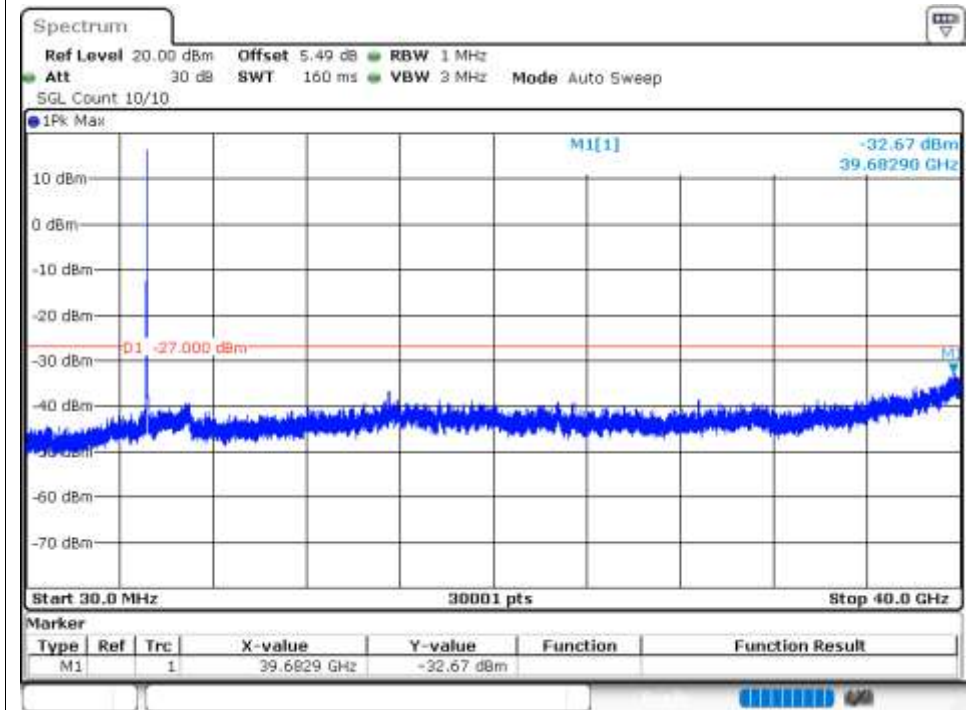
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-32.67	-27	Pass
NVNT	a	5200	Ant1	-32.7	-27	Pass
NVNT	a	5240	Ant1	-32.75	-27	Pass
NVNT	n20	5180	Ant1	-33.06	-27	Pass
NVNT	n20	5200	Ant1	-32.38	-27	Pass
NVNT	n20	5240	Ant1	-30.47	-27	Pass
NVNT	n40	5190	Ant1	-33.59	-27	Pass
NVNT	n40	5230	Ant1	-33.26	-27	Pass

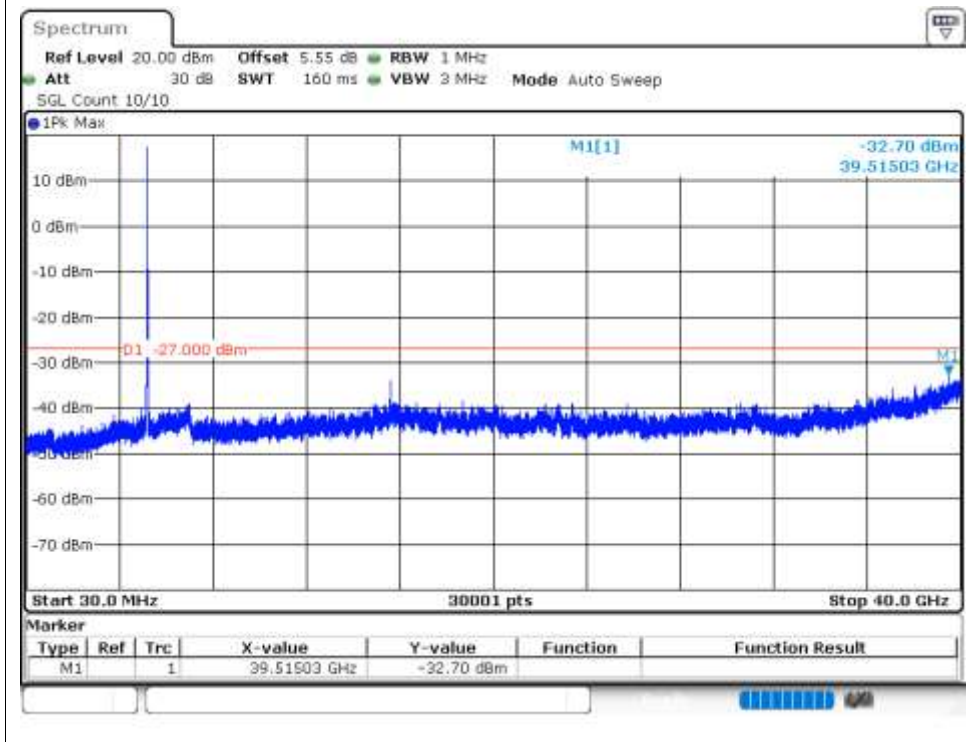
Note: This test has increased antenna gain .

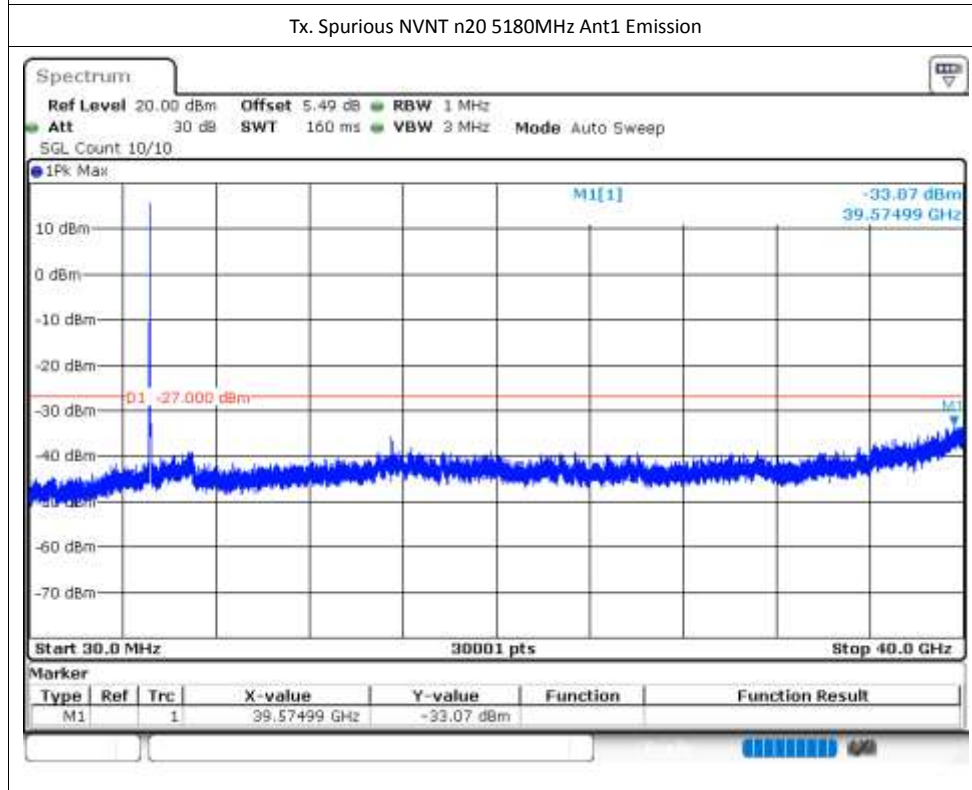
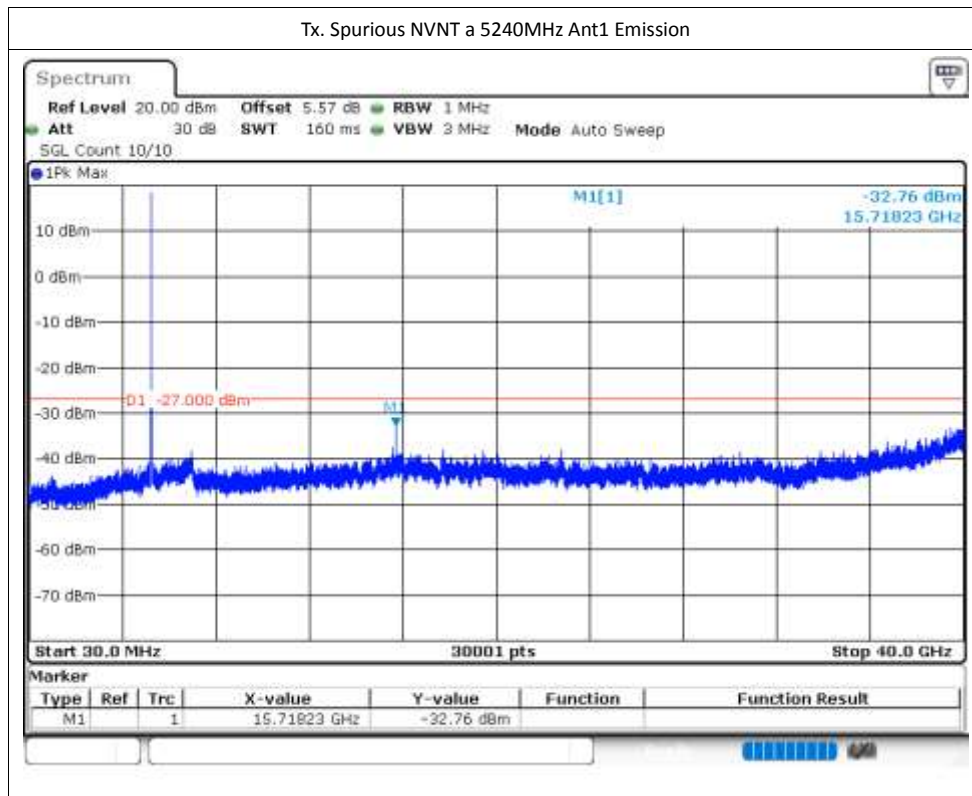
Test Graphs

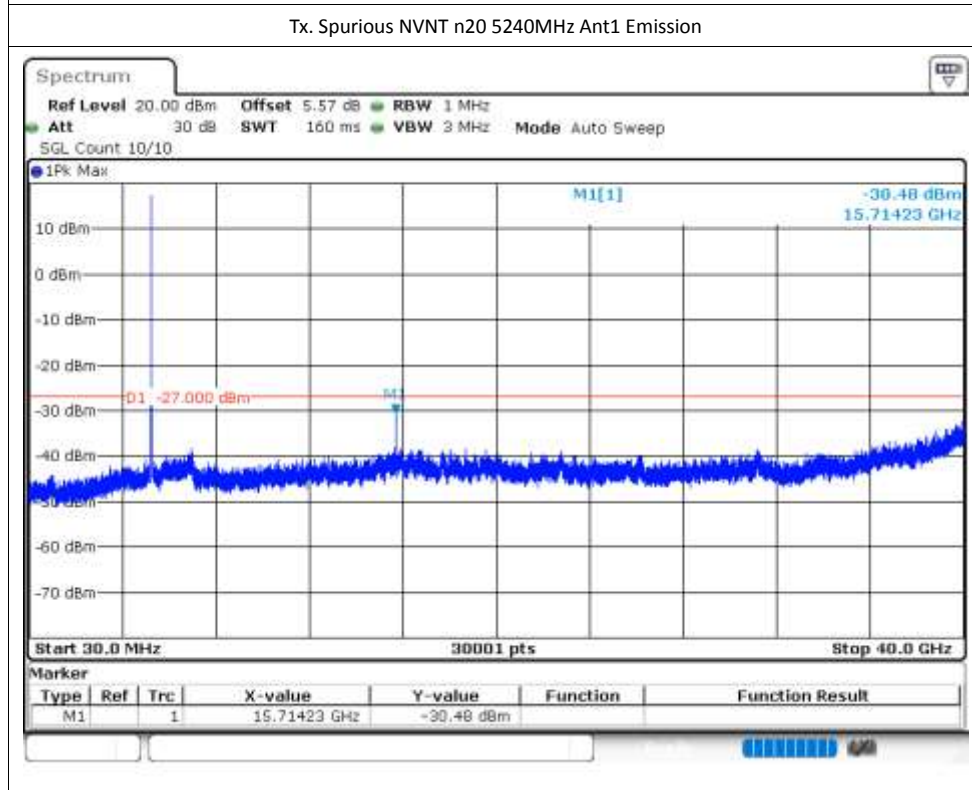
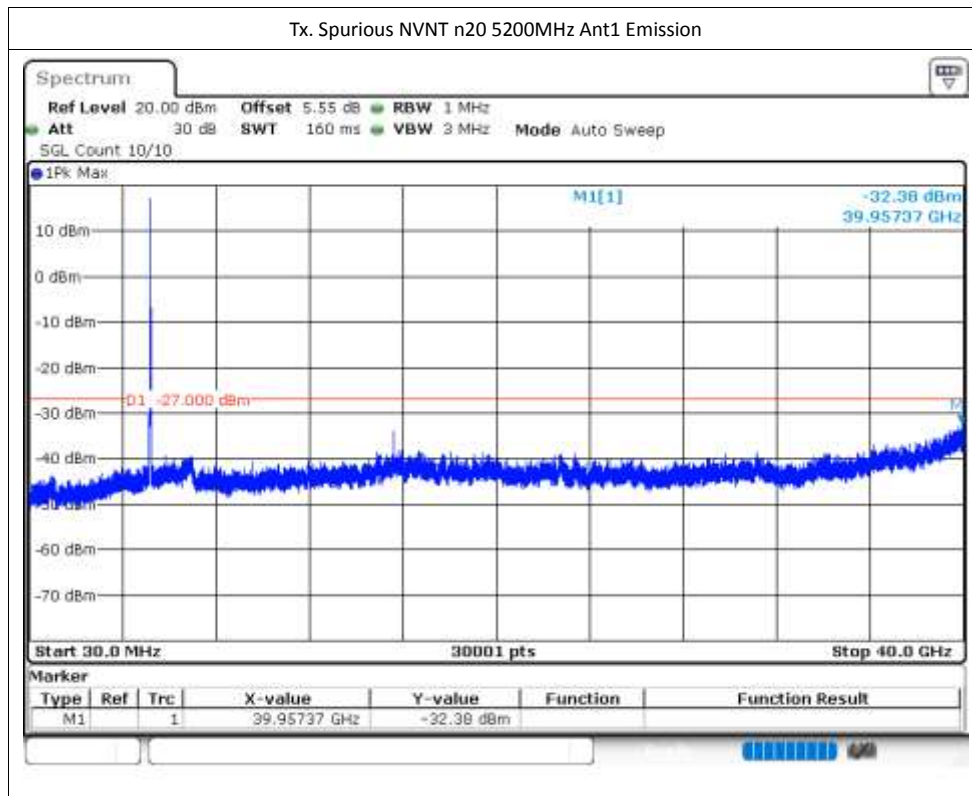
Tx. Spurious NVNT a 5180MHz Ant1 Emission



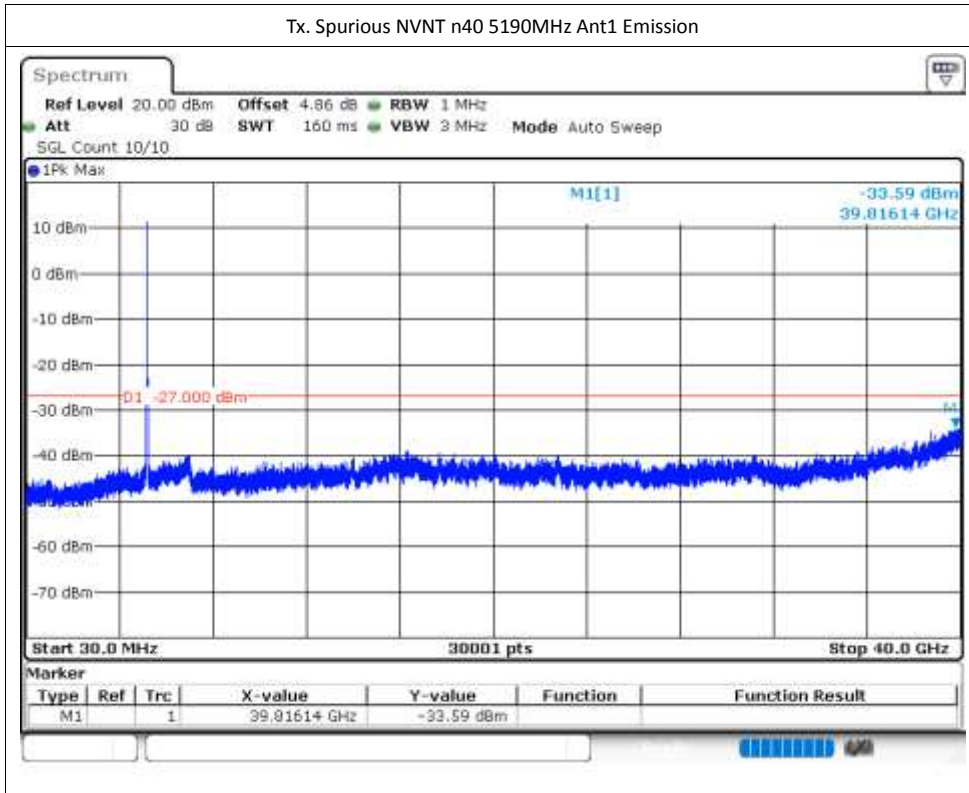
Tx. Spurious NVNT a 5200MHz Ant1 Emission



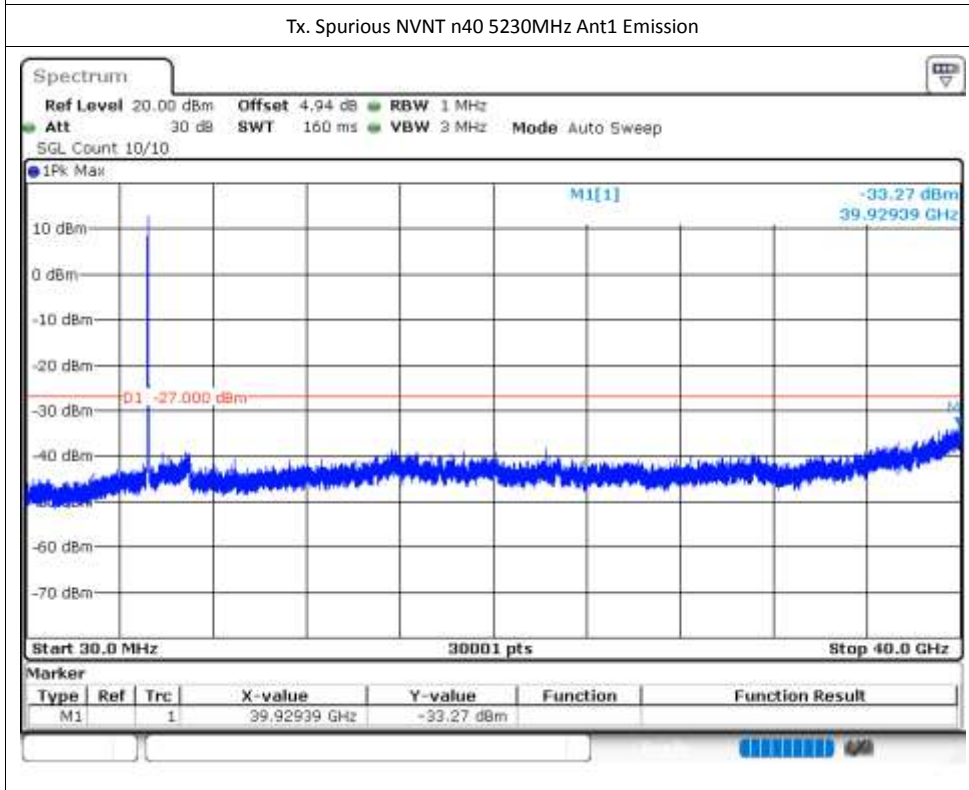




Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



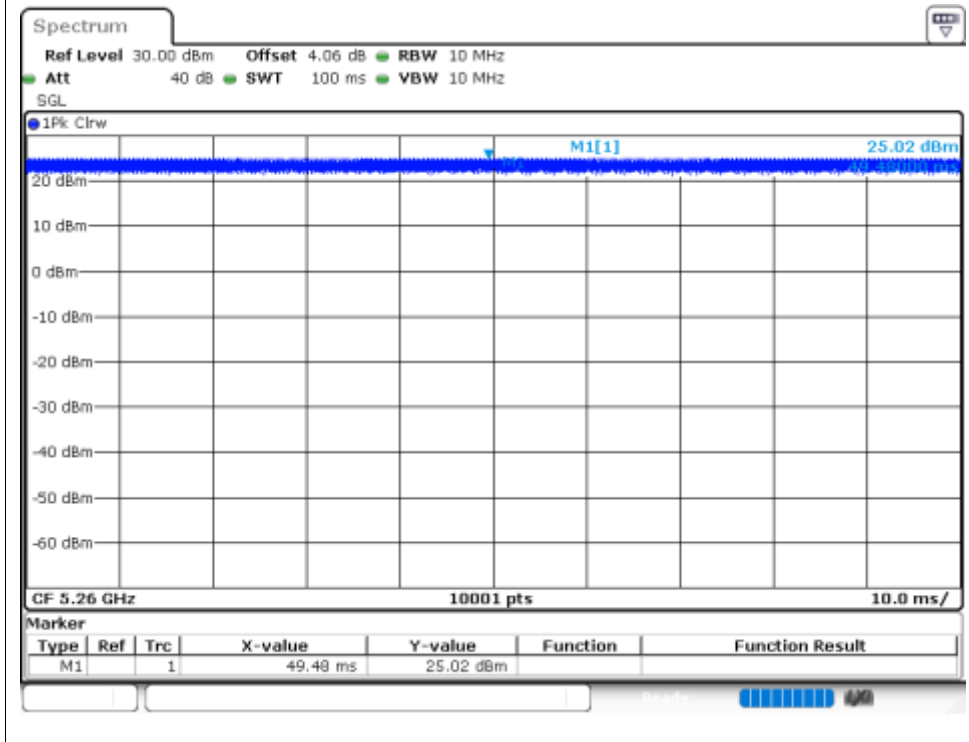
5.3G WIFI

Duty Cycle

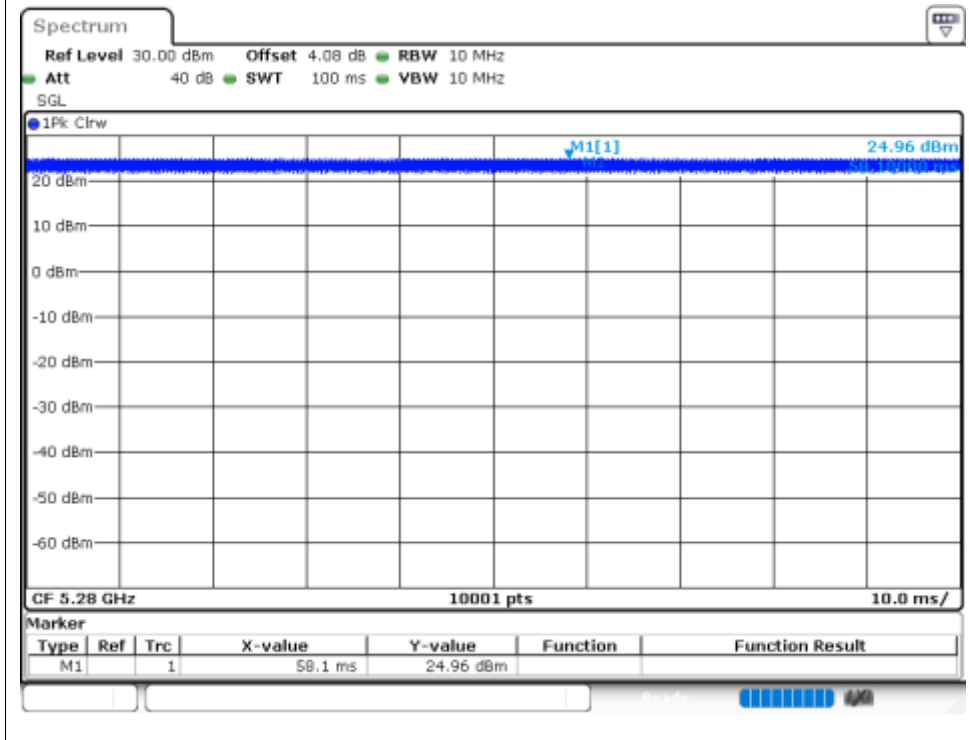
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	100	0	0
NVNT	a	5280	Ant1	100	0	0
NVNT	a	5320	Ant1	100	0	0
NVNT	n20	5260	Ant1	100	0	0
NVNT	n20	5280	Ant1	100	0	0
NVNT	n20	5320	Ant1	100	0	0
NVNT	n40	5270	Ant1	100	0	0
NVNT	n40	5310	Ant1	100	0	0

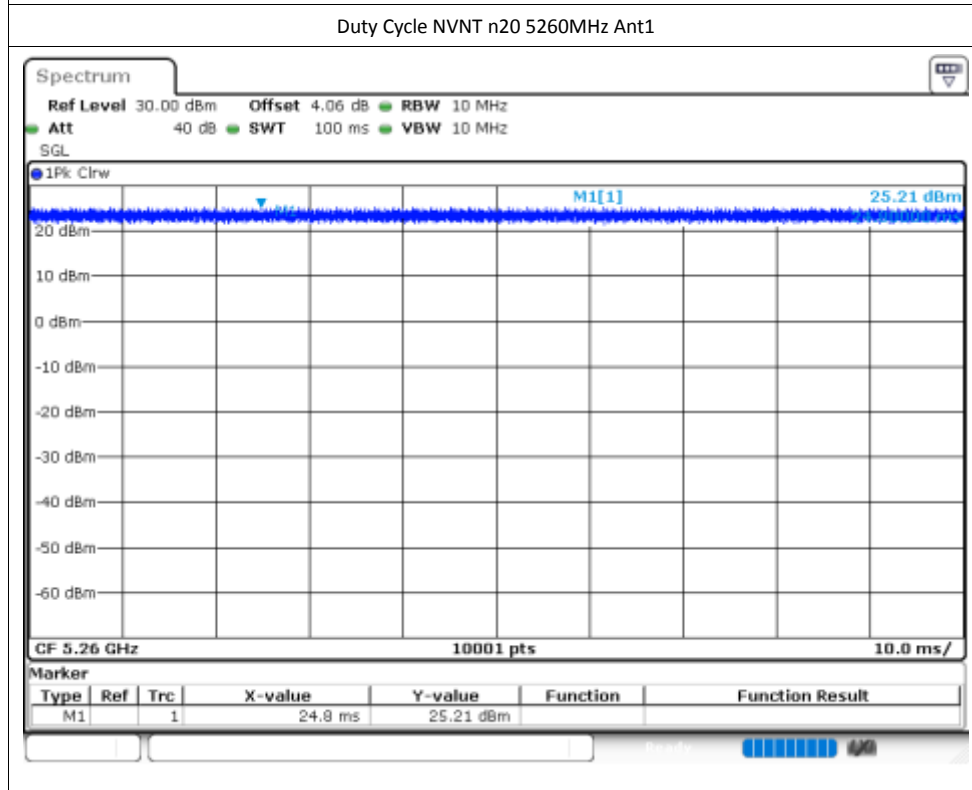
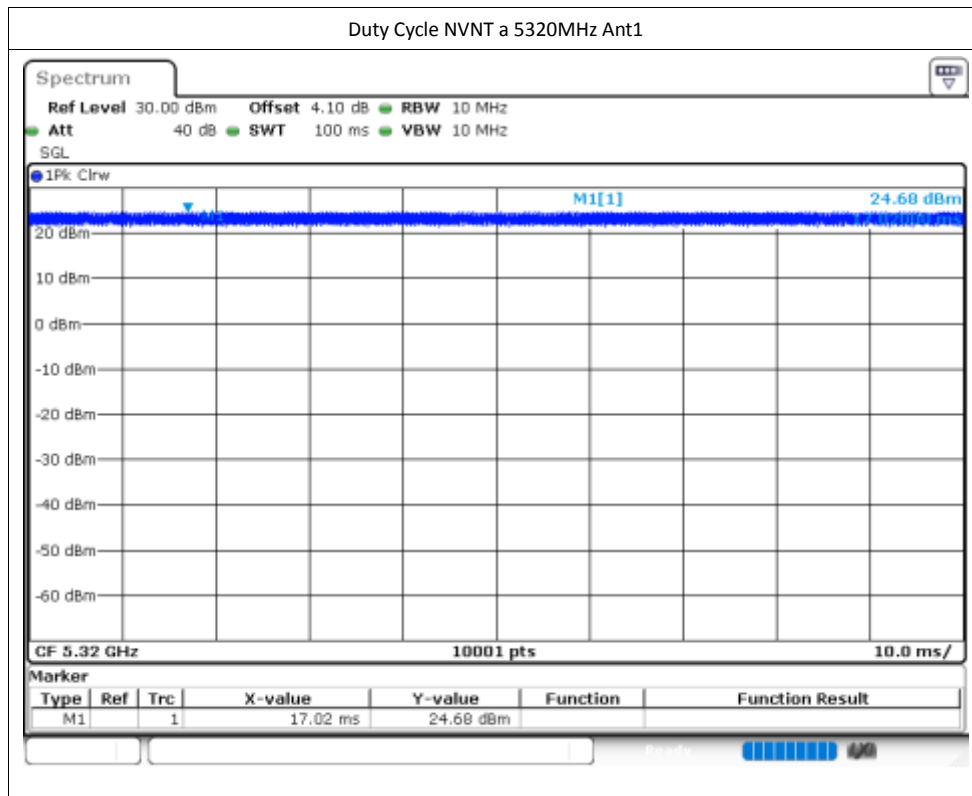
Test Graphs

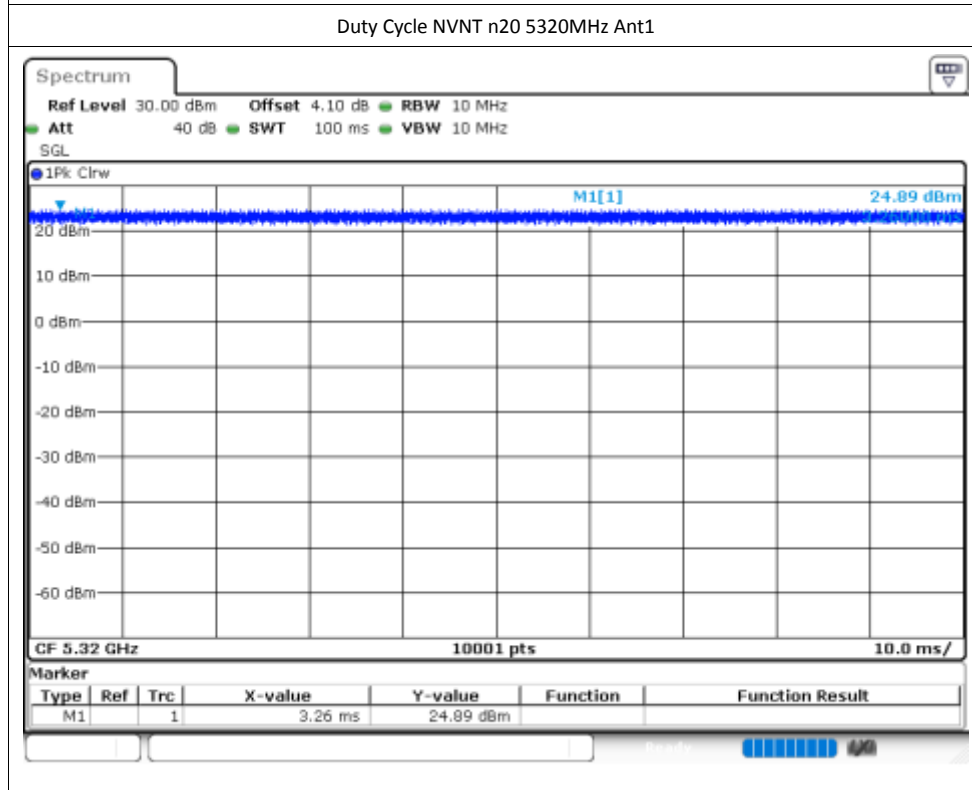
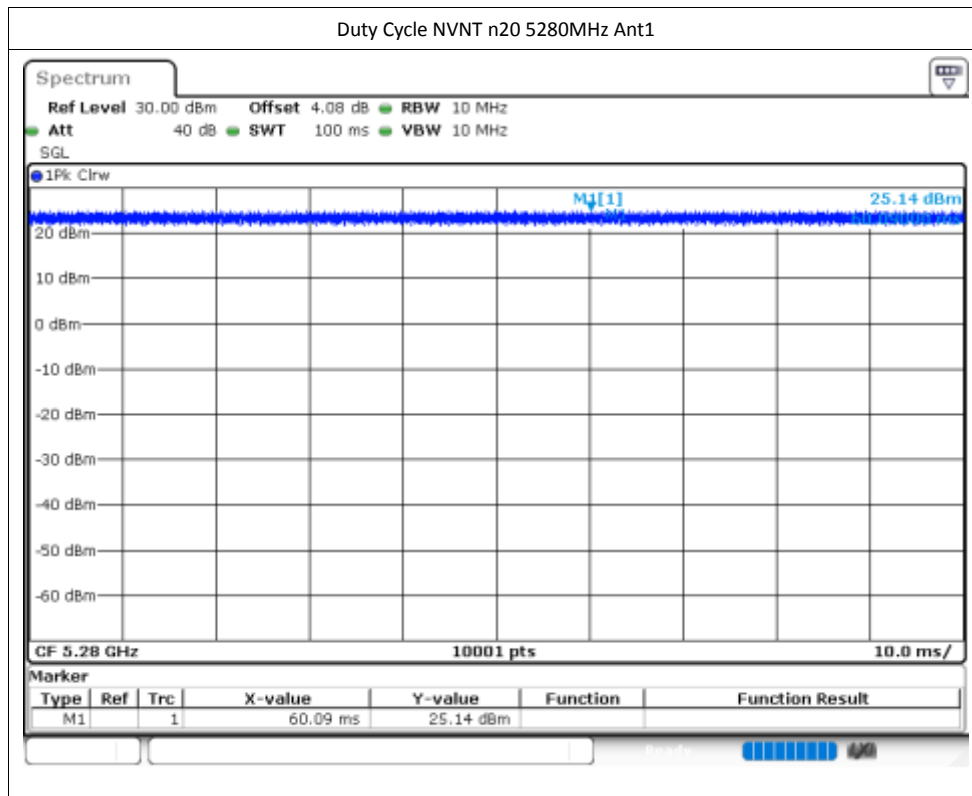
Duty Cycle NVNT a 5260MHz Ant1

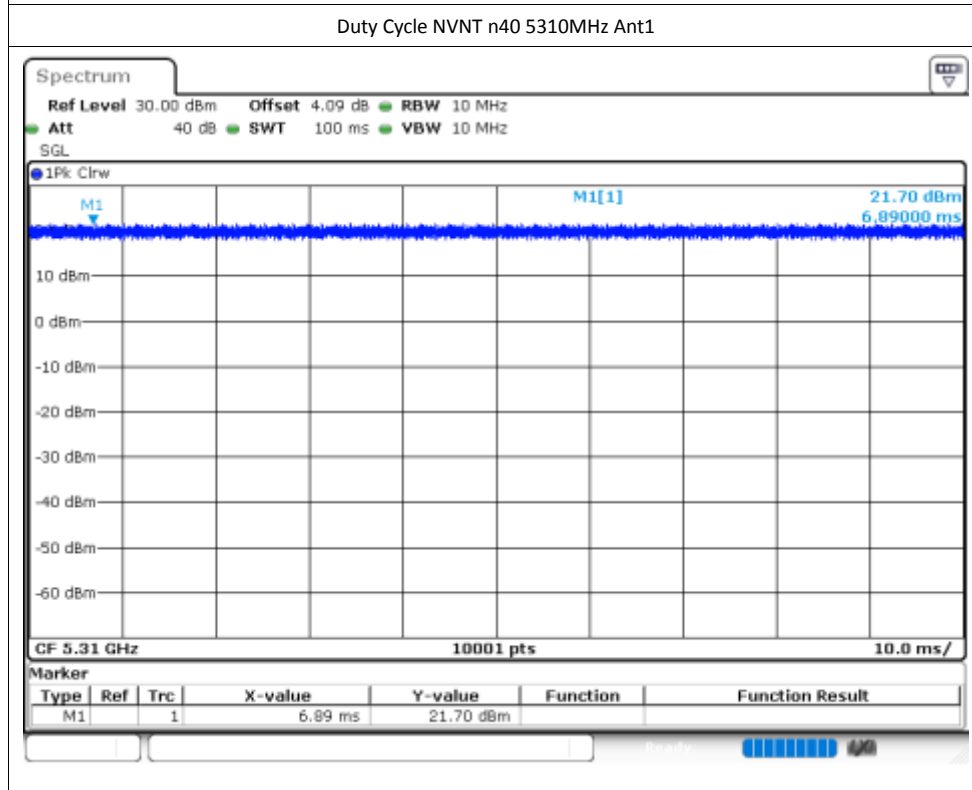
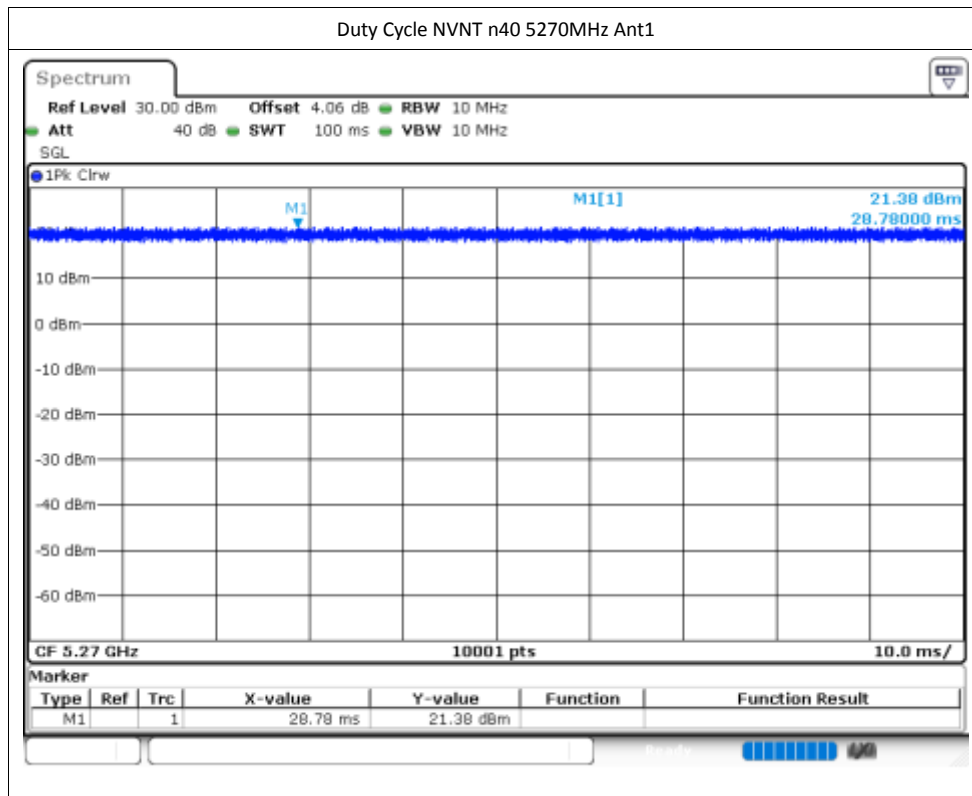


Duty Cycle NVNT a 5280MHz Ant1









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	17.56	24	Pass
NVNT	a	5280	Ant1	17.62	24	Pass
NVNT	a	5320	Ant1	17.85	24	Pass
NVNT	n20	5260	Ant1	17.43	24	Pass
NVNT	n20	5280	Ant1	17.4	24	Pass
NVNT	n20	5320	Ant1	17.78	24	Pass
NVNT	n40	5270	Ant1	14.79	24	Pass
NVNT	n40	5310	Ant1	14.84	24	Pass

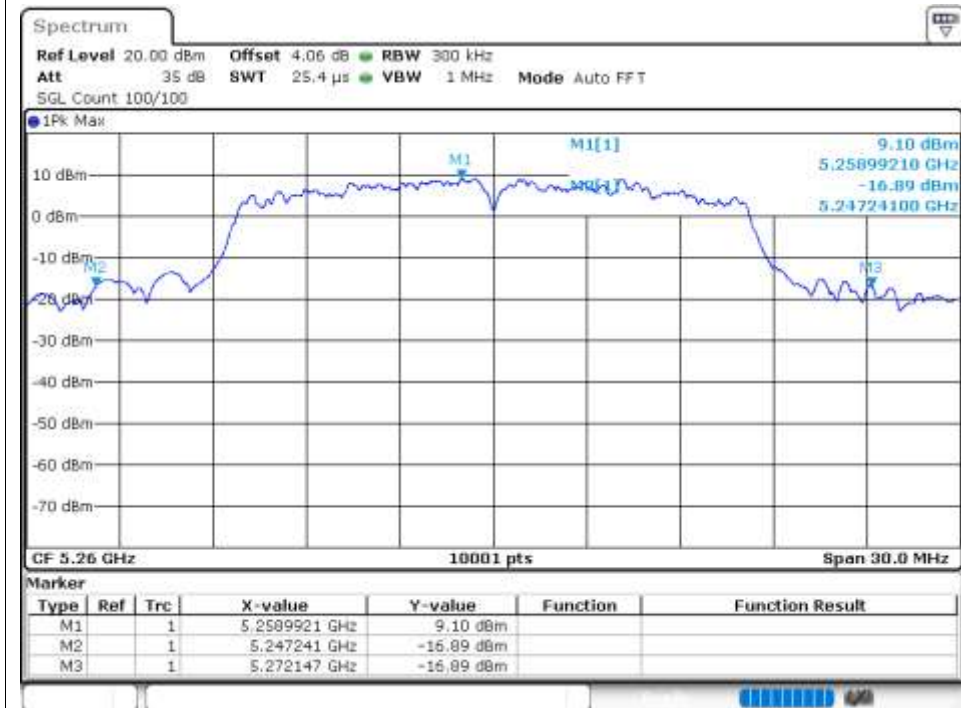
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

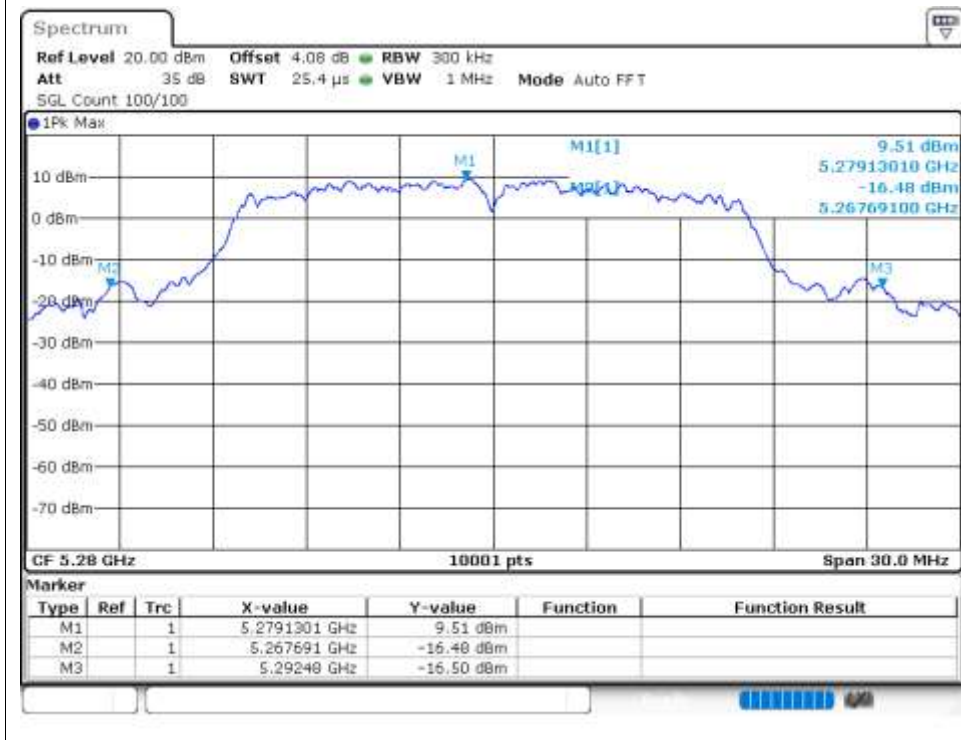
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	24.906	Pass
NVNT	a	5280	Ant1	24.789	Pass
NVNT	a	5320	Ant1	26.535	Pass
NVNT	n20	5260	Ant1	21.15	Pass
NVNT	n20	5280	Ant1	23.772	Pass
NVNT	n20	5320	Ant1	20.889	Pass
NVNT	n40	5270	Ant1	38.442	Pass
NVNT	n40	5310	Ant1	38.346	Pass

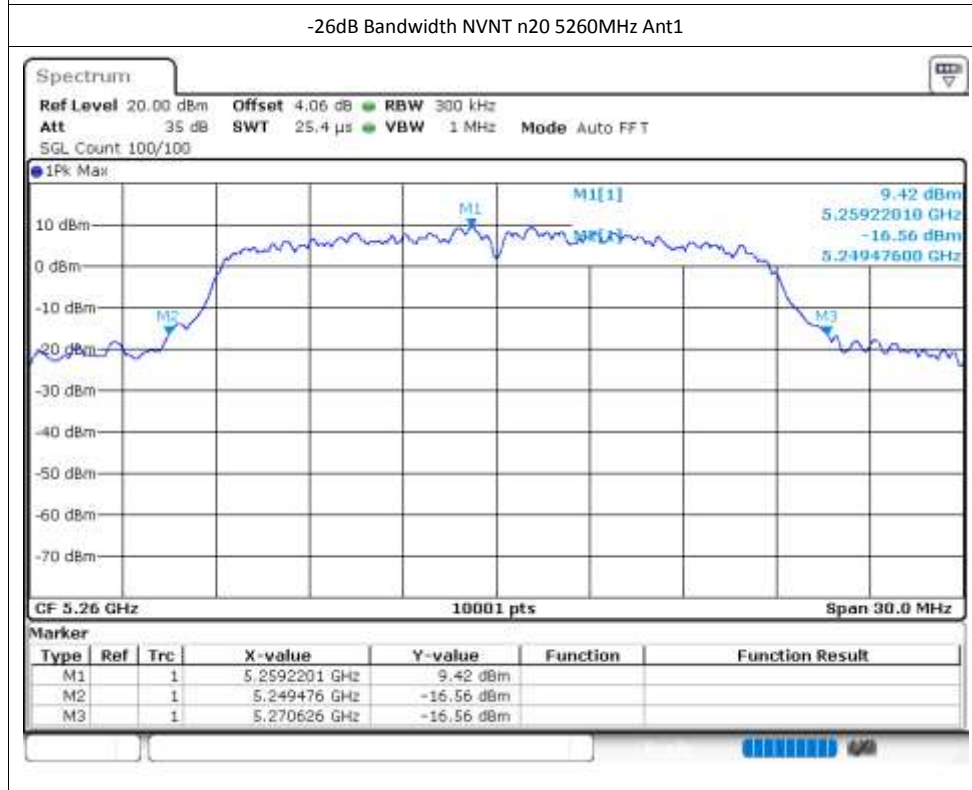
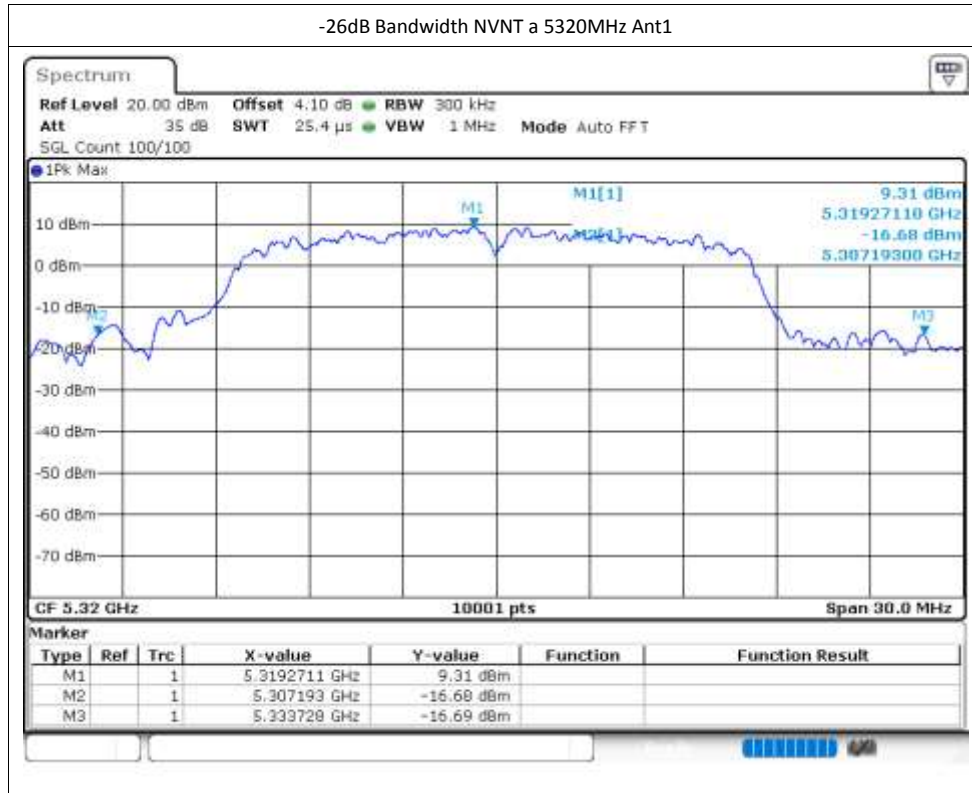
Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1

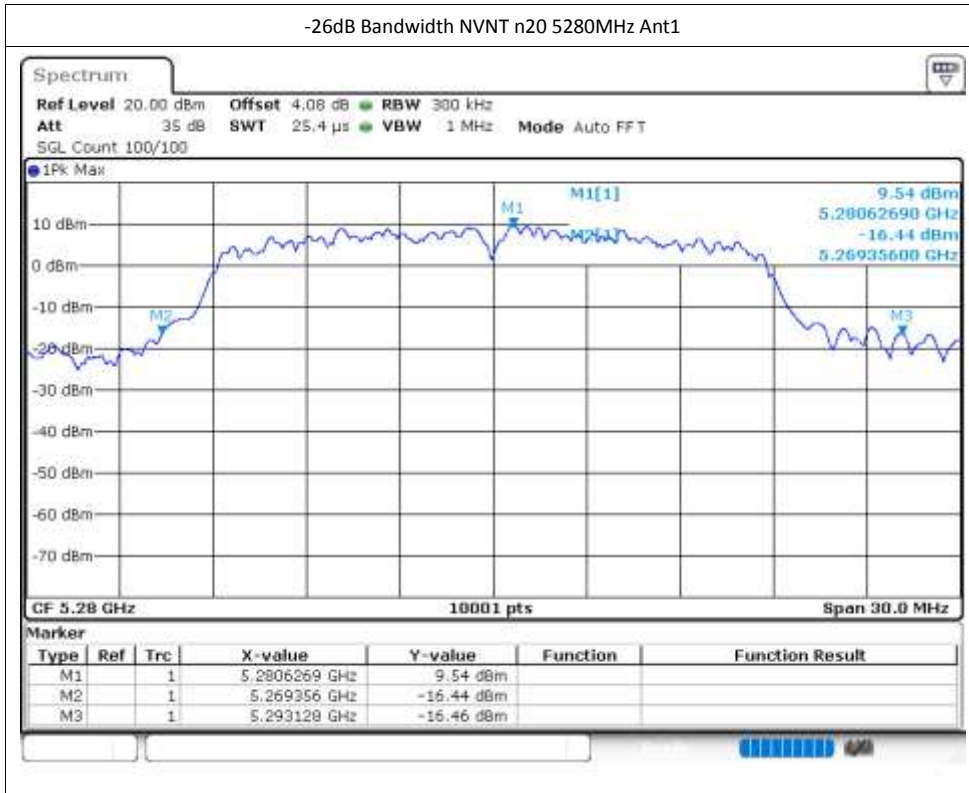


-26dB Bandwidth NVNT a 5280MHz Ant1

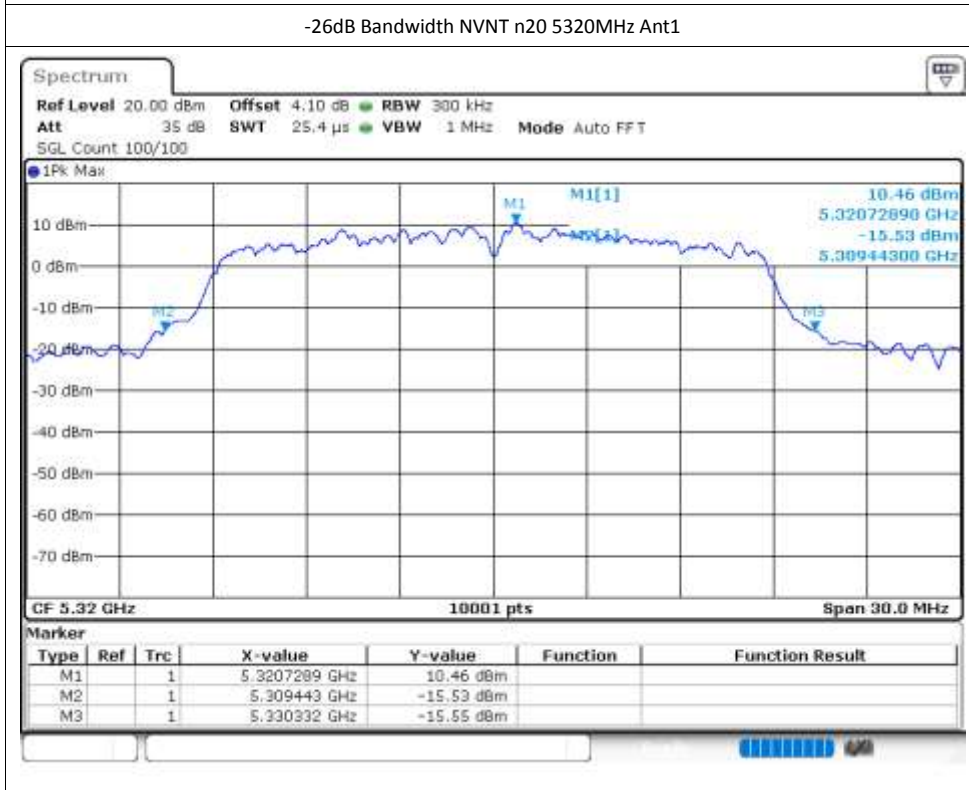




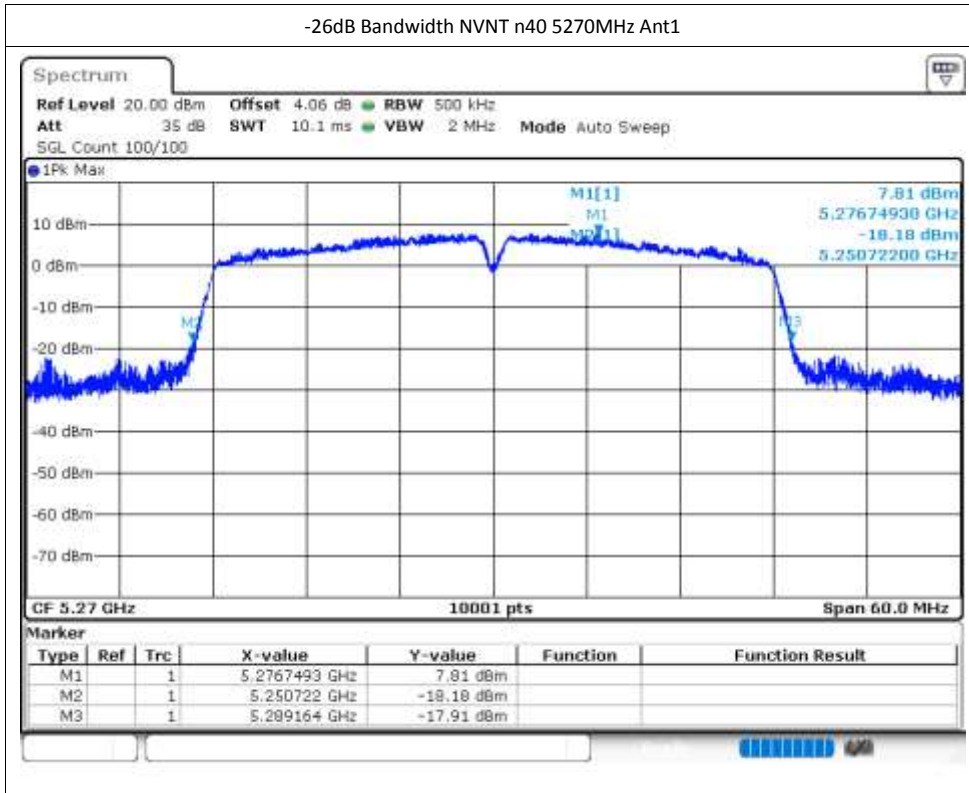
-26dB Bandwidth NVNT n20 5280MHz Ant1



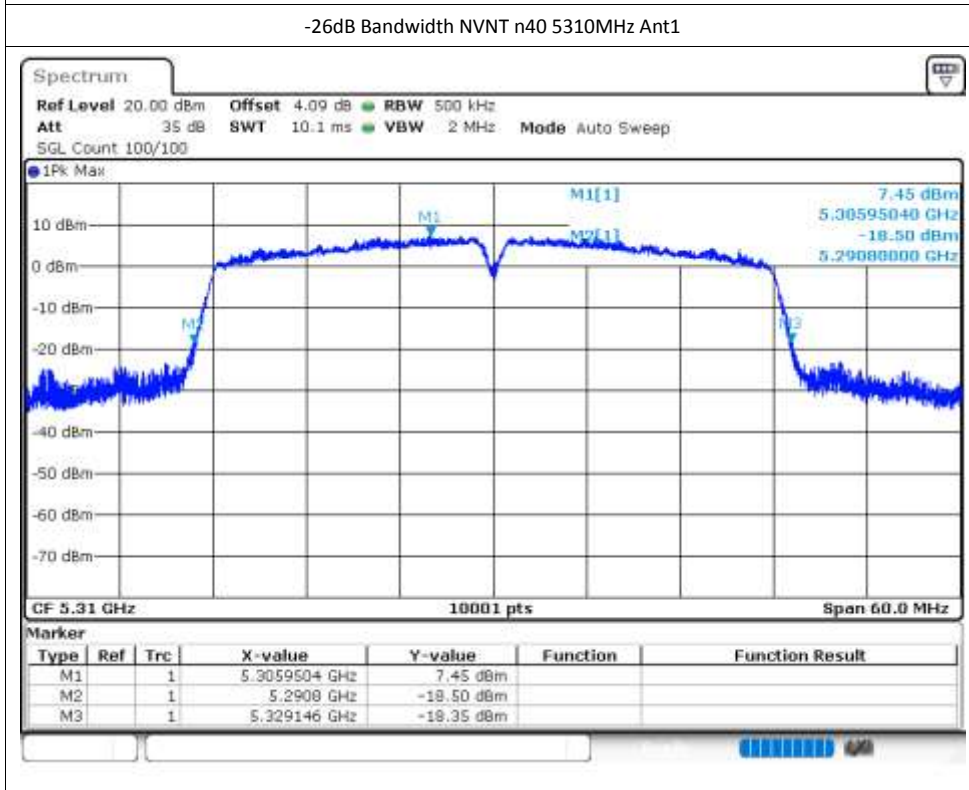
-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



Occupied Channel Bandwidth

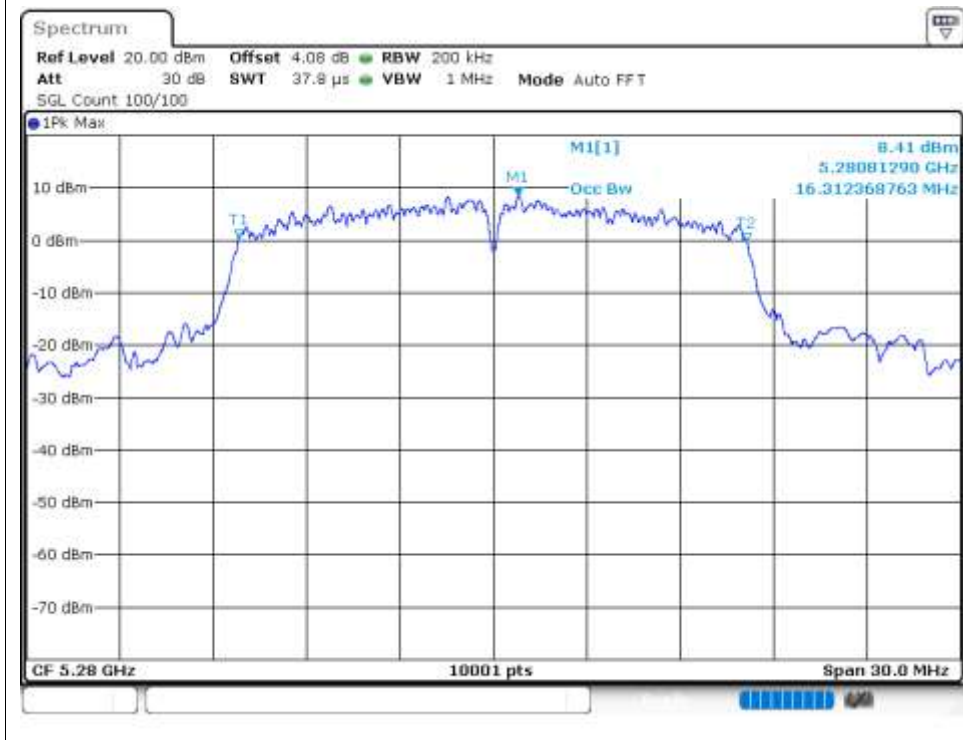
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.393
NVNT	a	5280	Ant1	16.312
NVNT	a	5320	Ant1	16.375
NVNT	n20	5260	Ant1	17.5
NVNT	n20	5280	Ant1	17.512
NVNT	n20	5320	Ant1	17.524
NVNT	n40	5270	Ant1	35.372
NVNT	n40	5310	Ant1	35.378

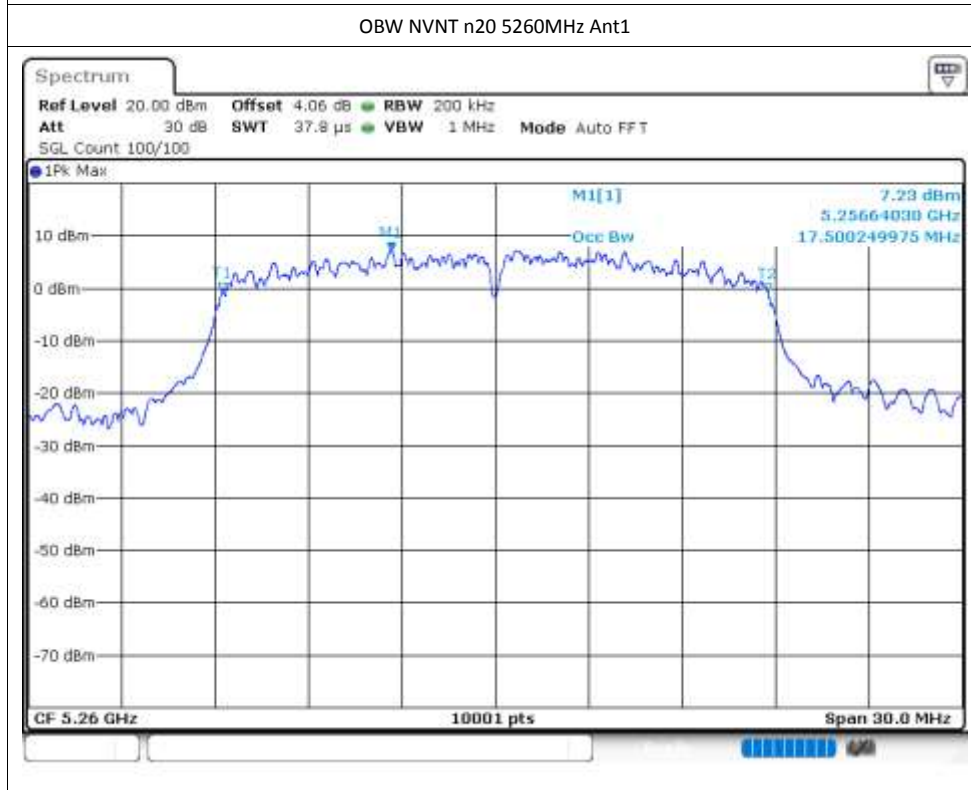
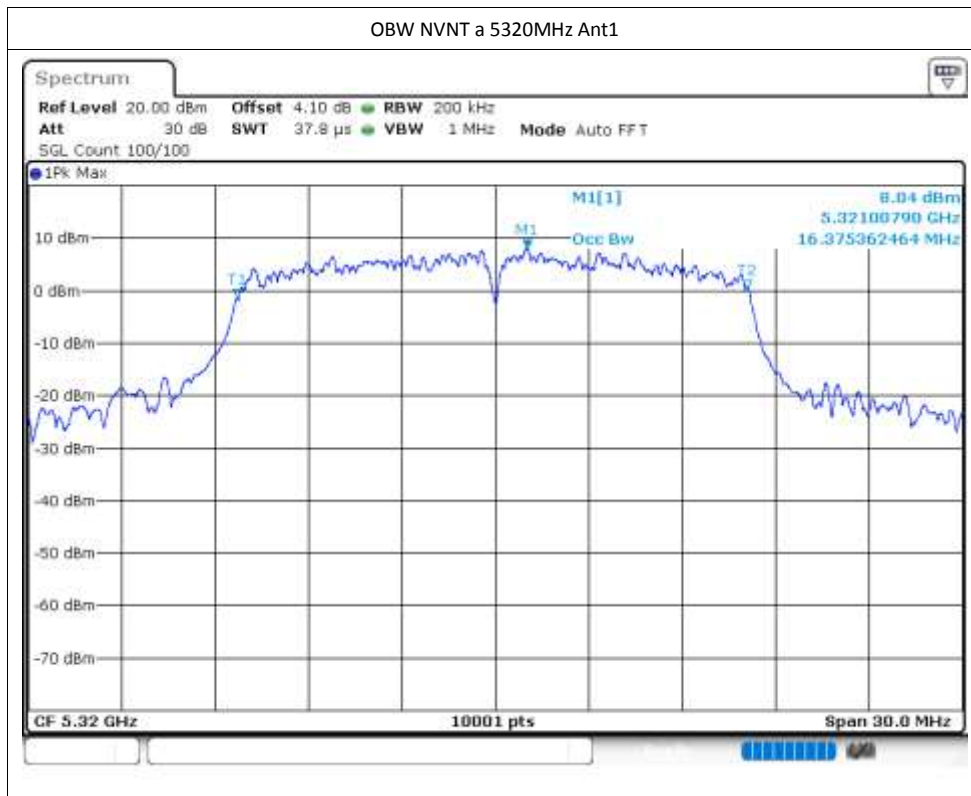
Test Graphs

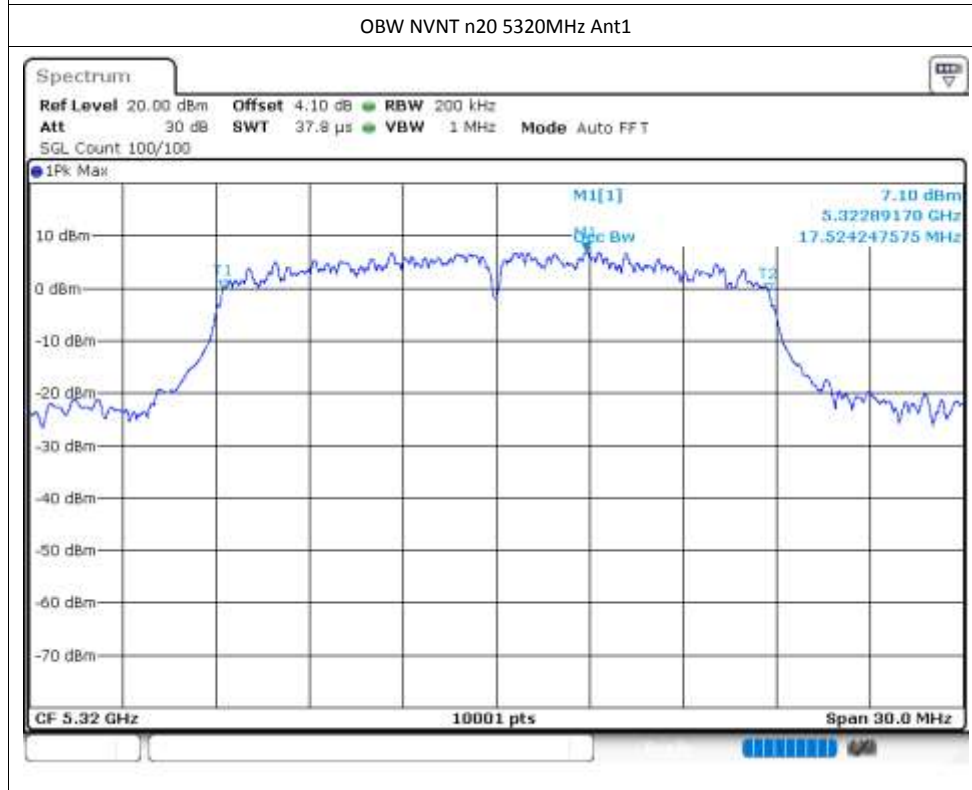
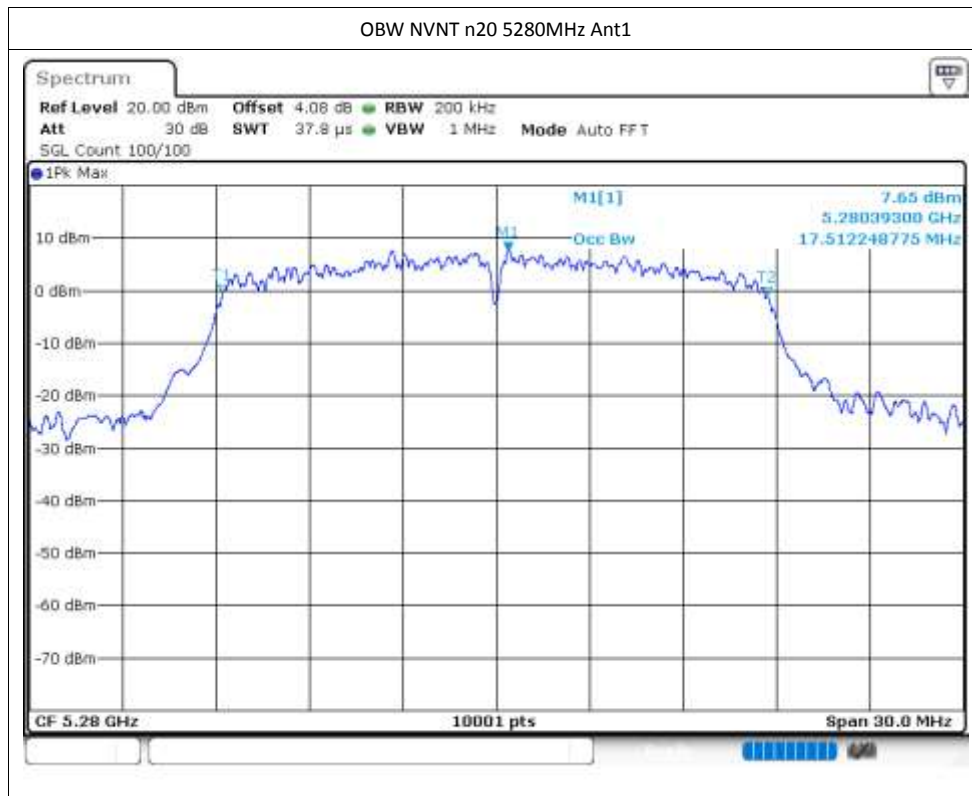
OBW NVNT a 5260MHz Ant1

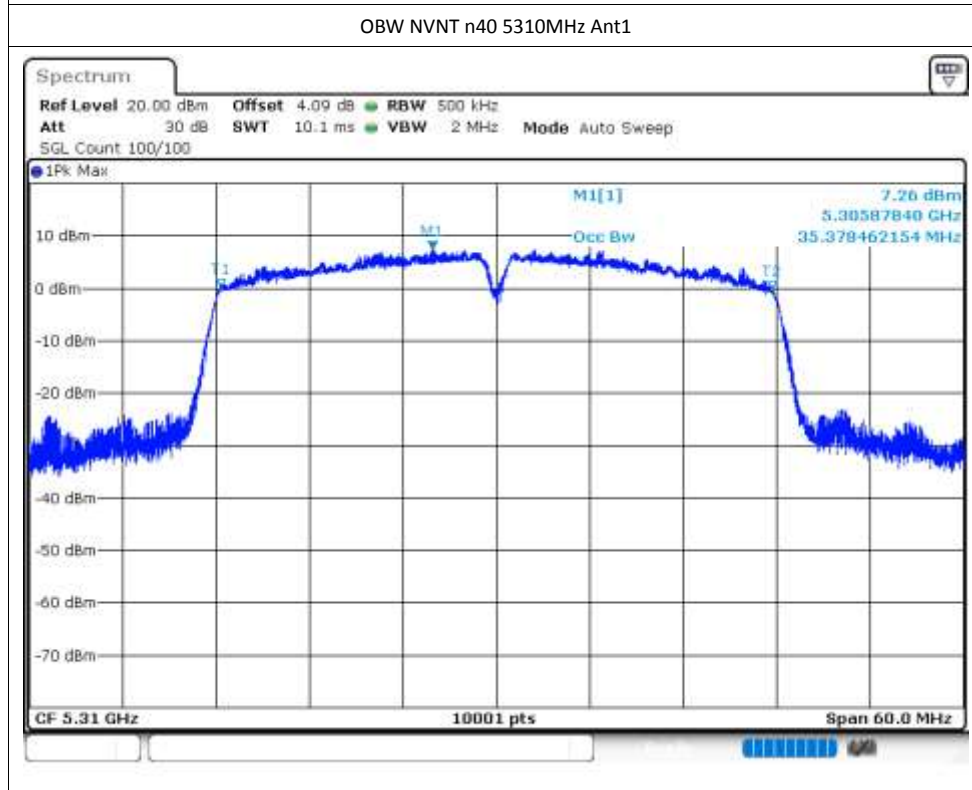
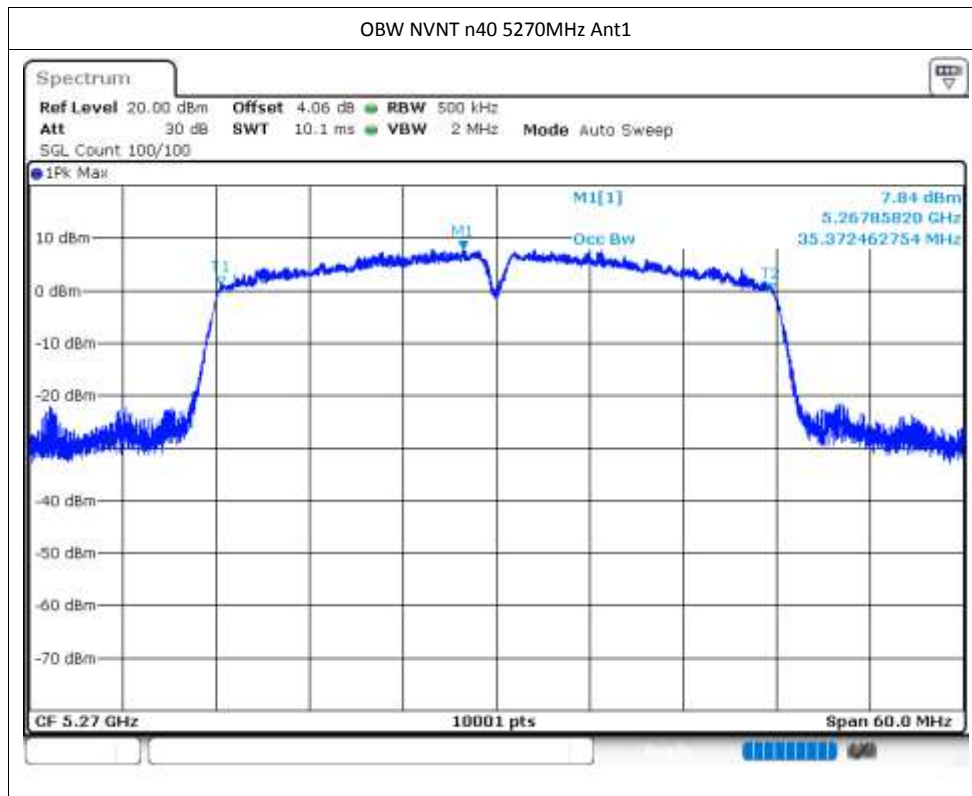


OBW NVNT a 5280MHz Ant1







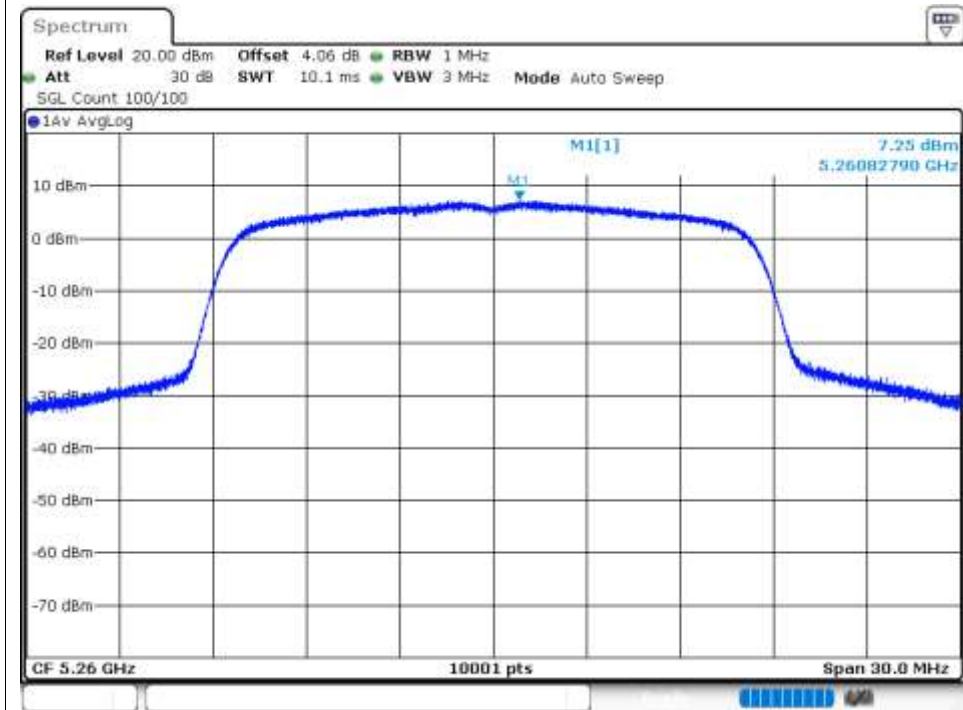


Maximum Power Spectral Density Level

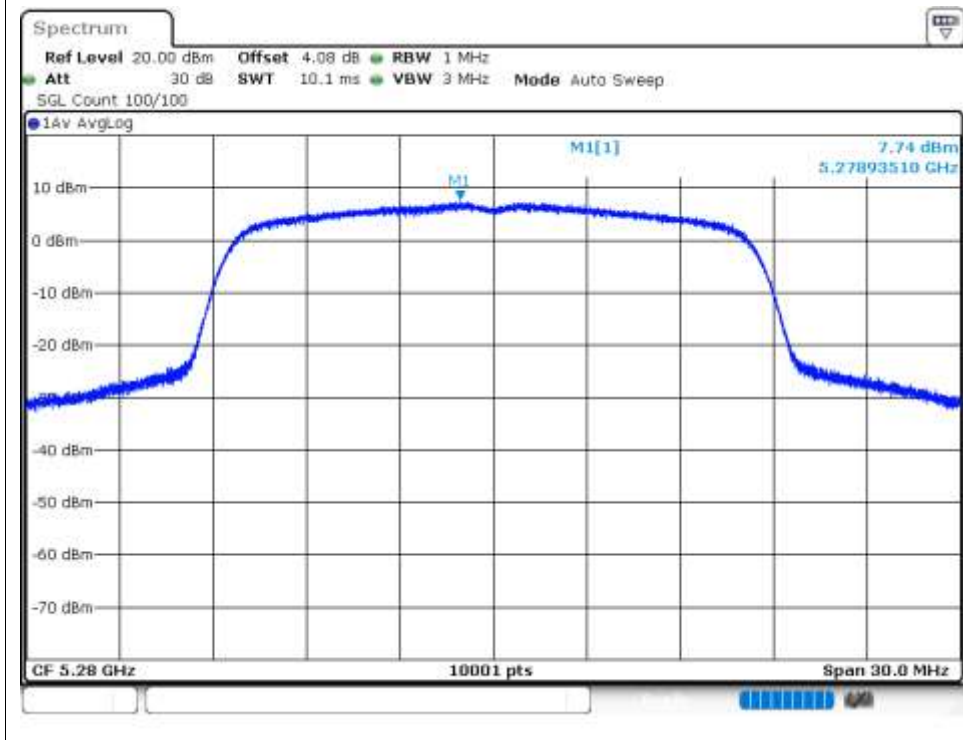
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	7.25	0	7.25	11	Pass
NVNT	a	5280	Ant1	7.74	0	7.74	11	Pass
NVNT	a	5320	Ant1	7.35	0	7.35	11	Pass
NVNT	n20	5260	Ant1	6.8	0	6.8	11	Pass
NVNT	n20	5280	Ant1	6.9	0	6.9	11	Pass
NVNT	n20	5320	Ant1	6.86	0	6.86	11	Pass
NVNT	n40	5270	Ant1	2.82	0	2.82	11	Pass
NVNT	n40	5310	Ant1	2.37	0	2.37	11	Pass

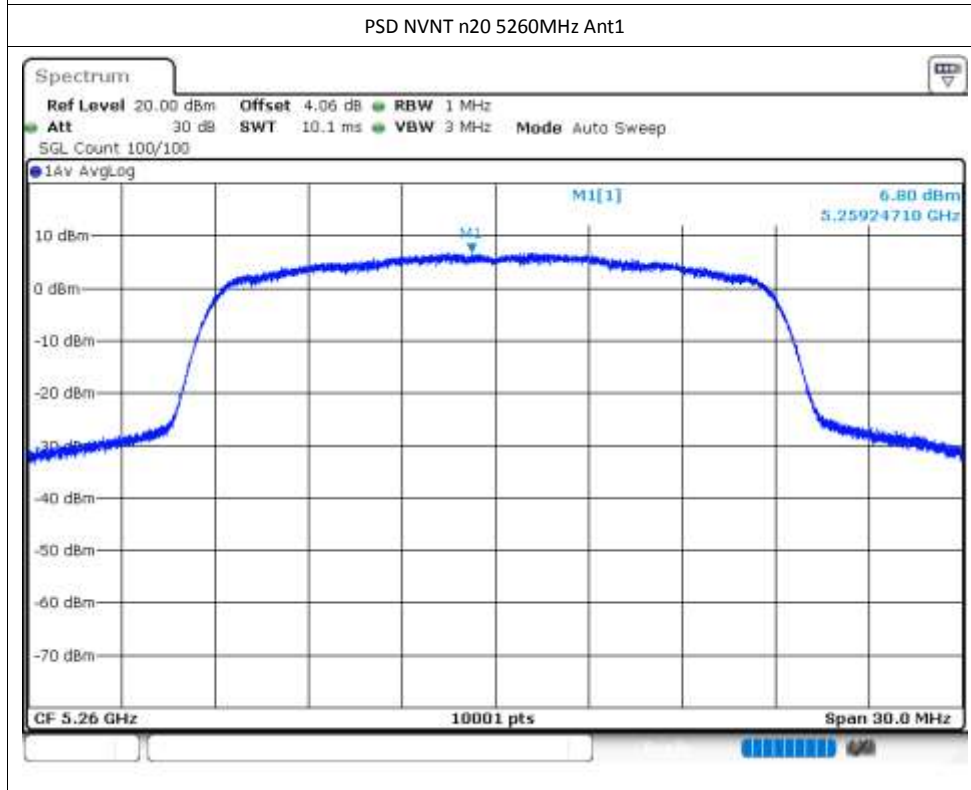
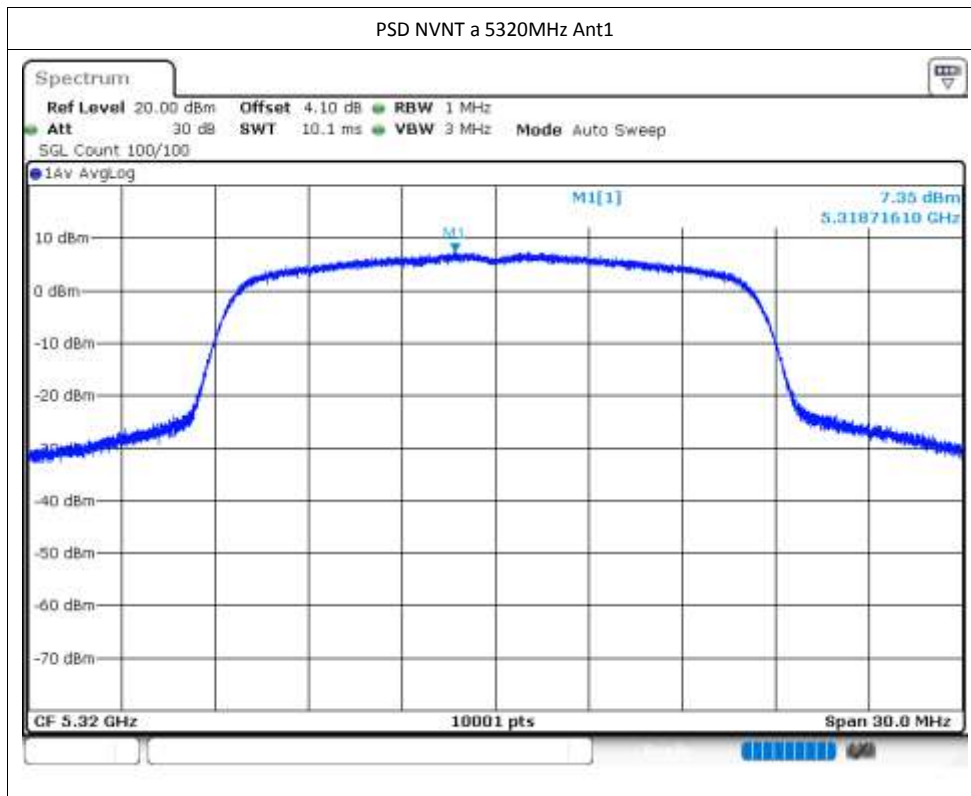
Test Graphs

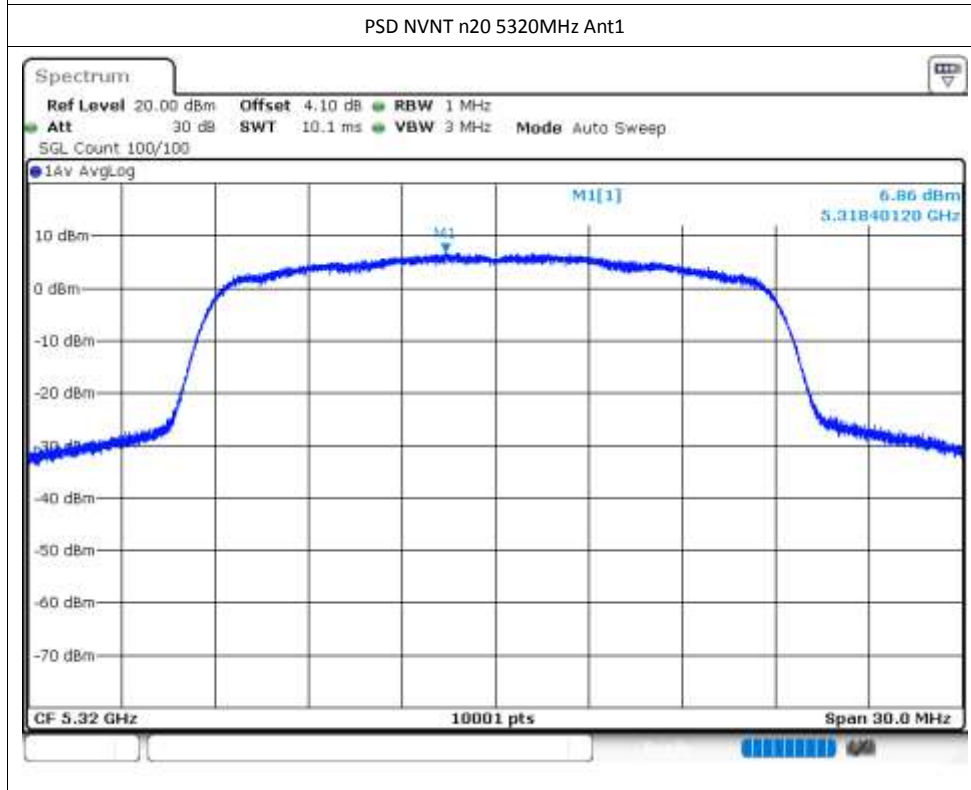
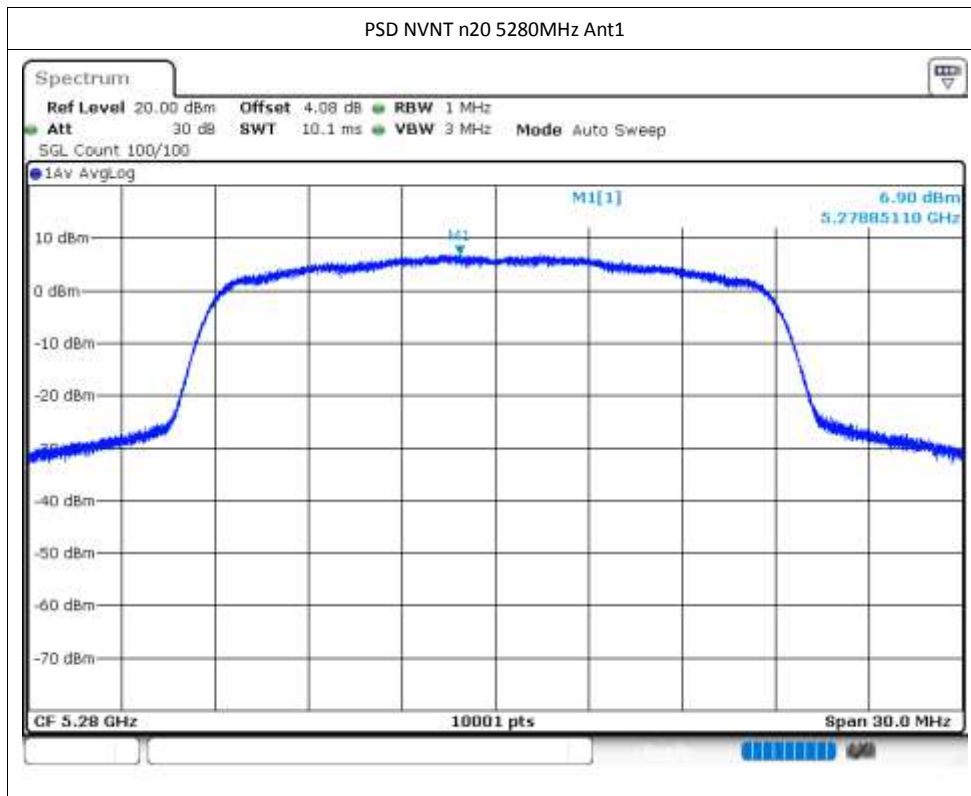
PSD NVNT a 5260MHz Ant1

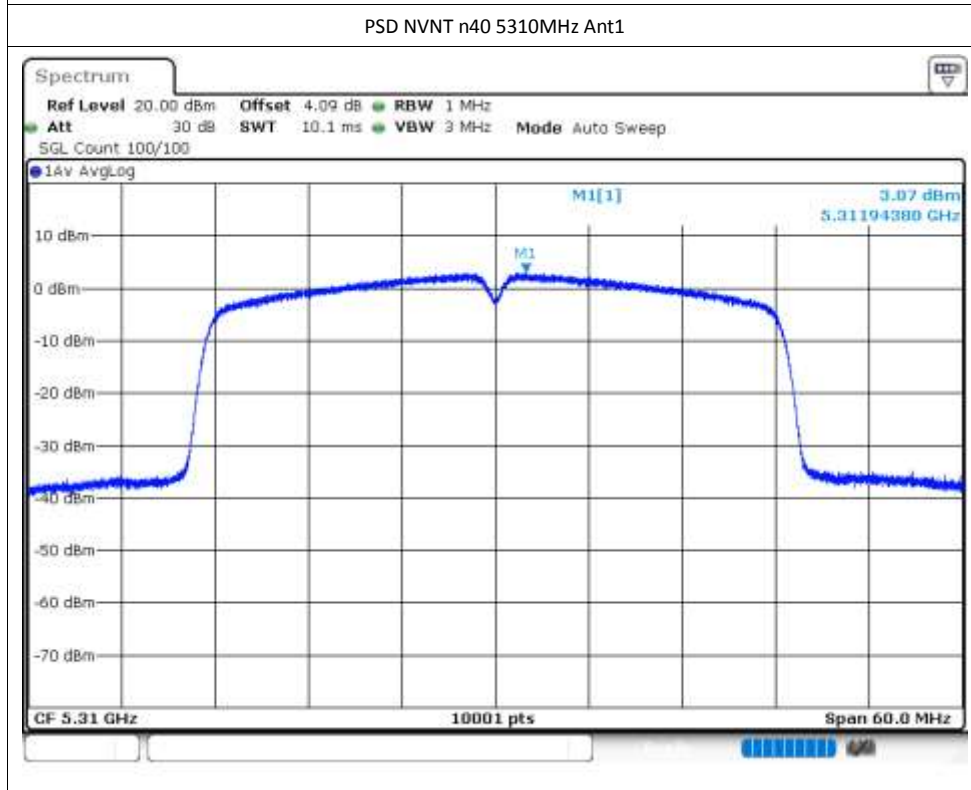
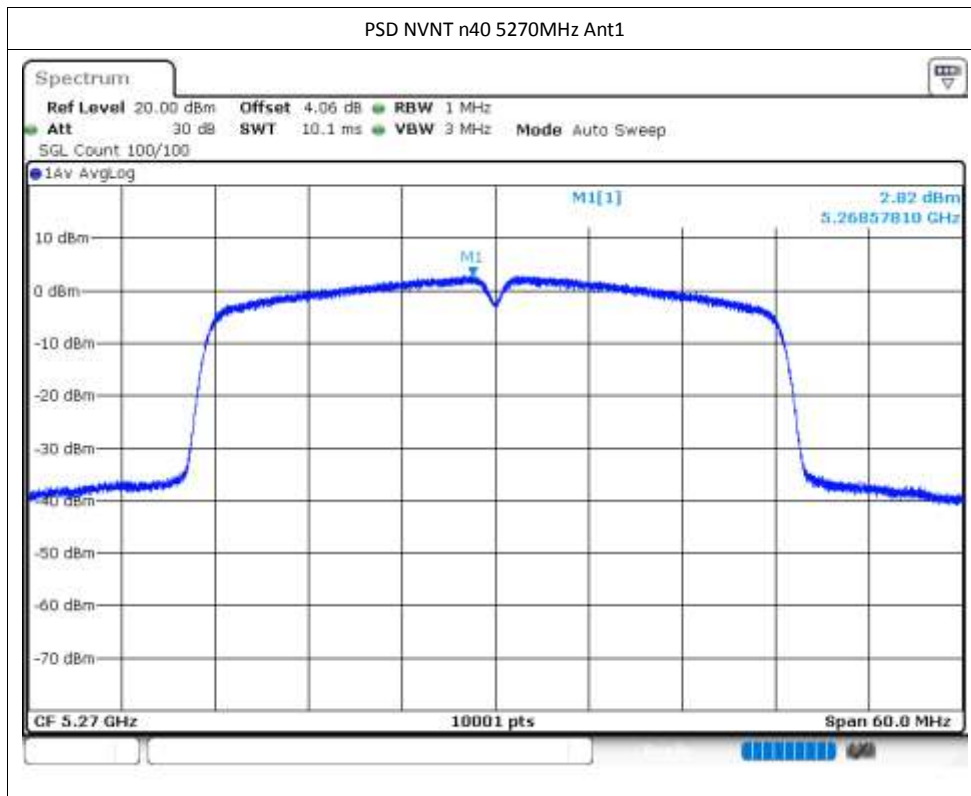


PSD NVNT a 5280MHz Ant1









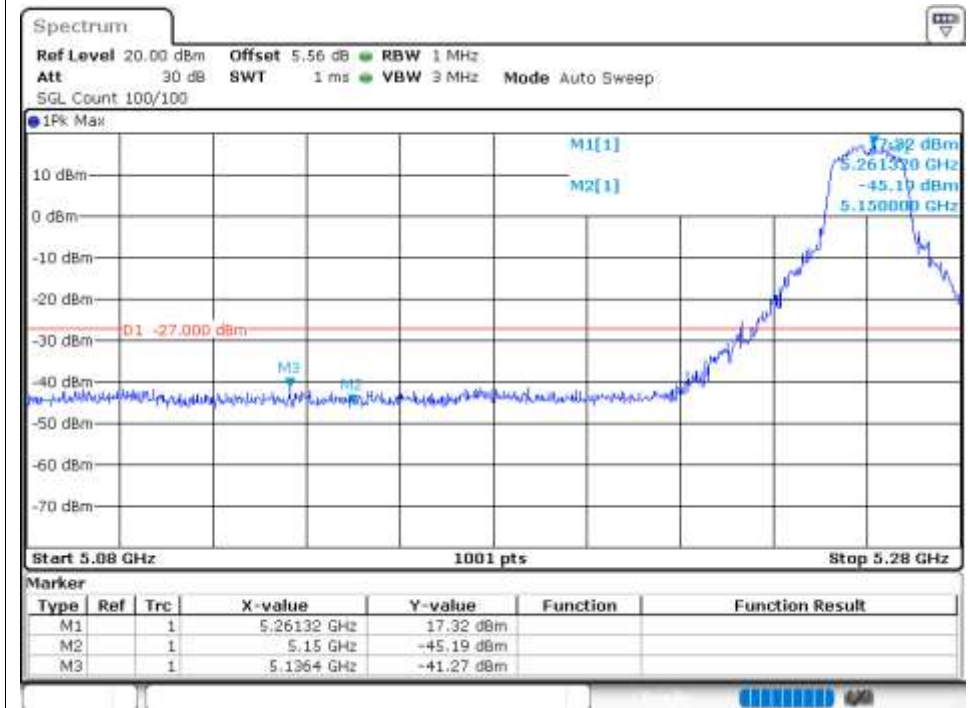
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-41.27	-27	Pass
NVNT	a	5320	Ant1	-28.34	-27	Pass
NVNT	n20	5260	Ant1	-40.54	-27	Pass
NVNT	n20	5320	Ant1	-27.49	-27	Pass
NVNT	n40	5270	Ant1	-41.9	-27	Pass
NVNT	n40	5310	Ant1	-28.94	-27	Fail

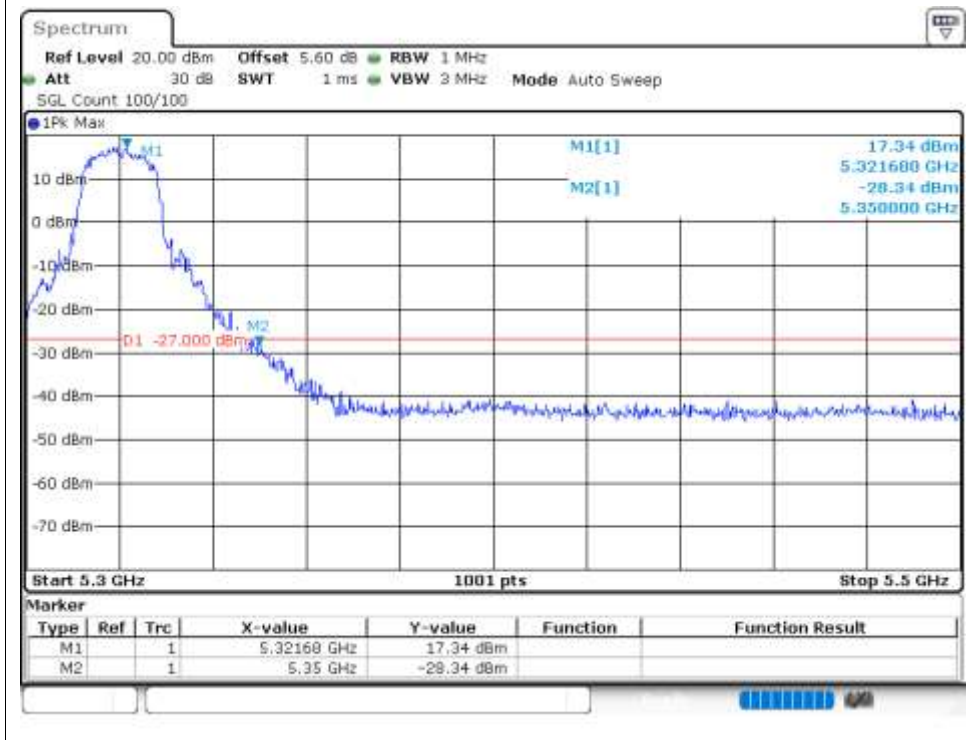
Note: This test has increased antenna gain .

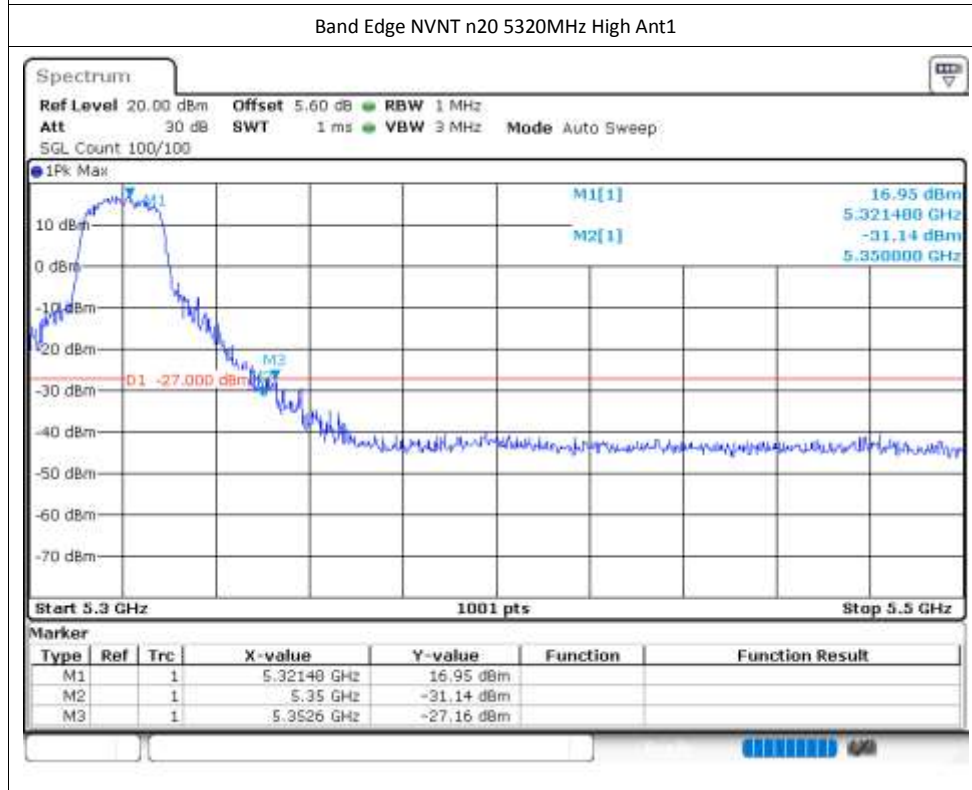
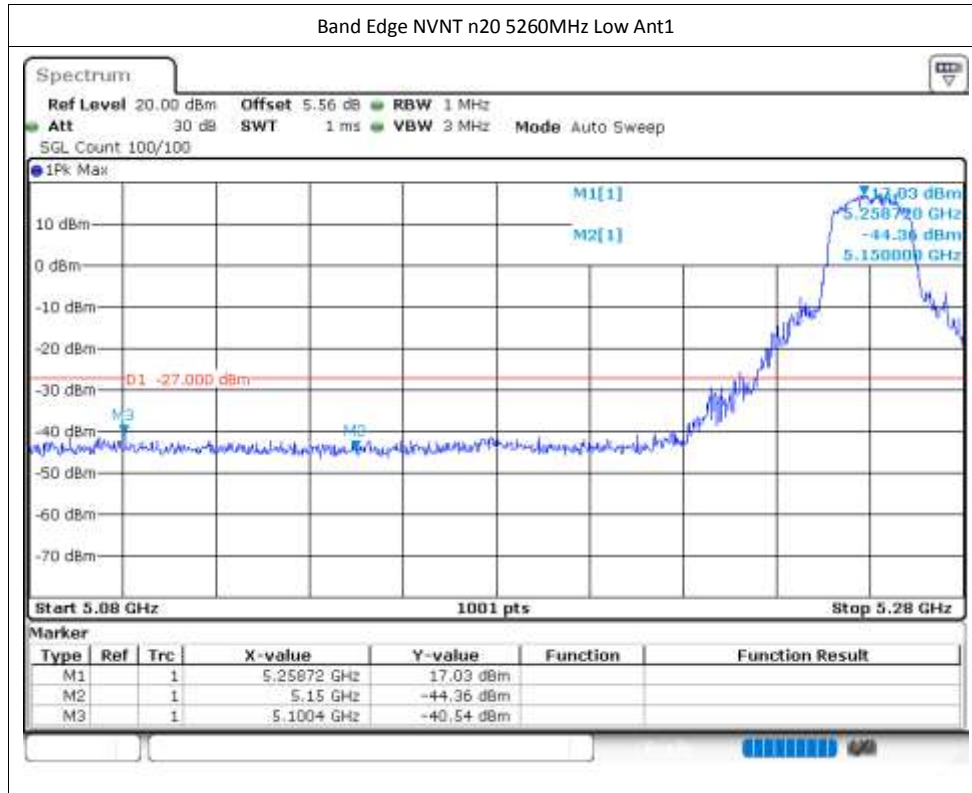
Test Graphs

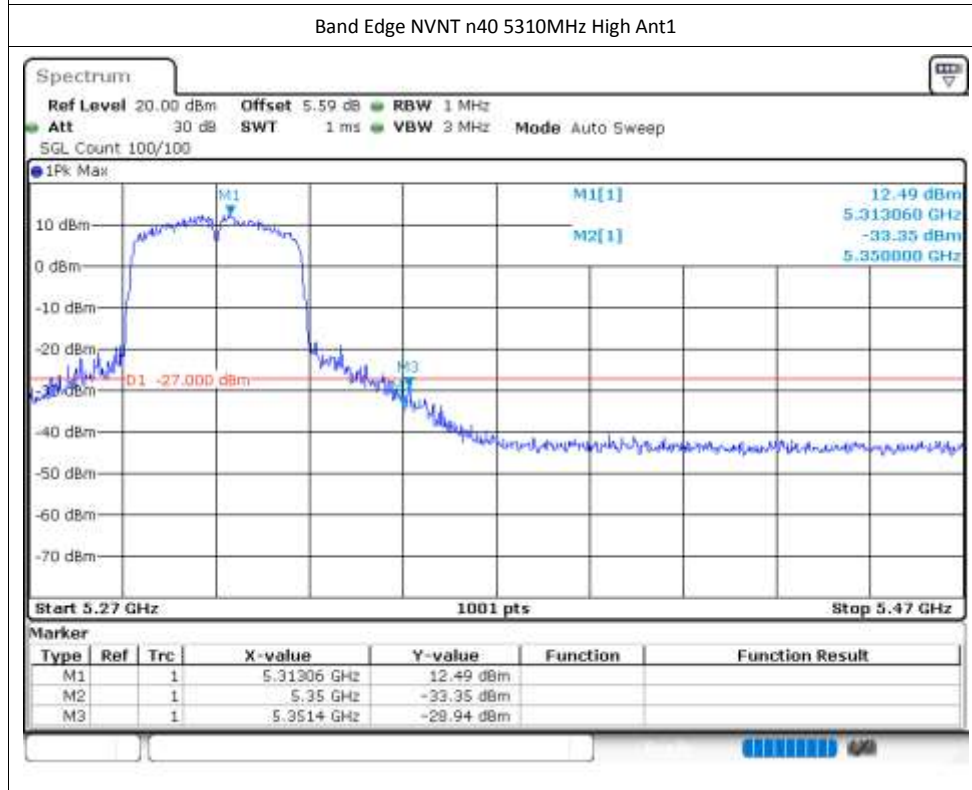
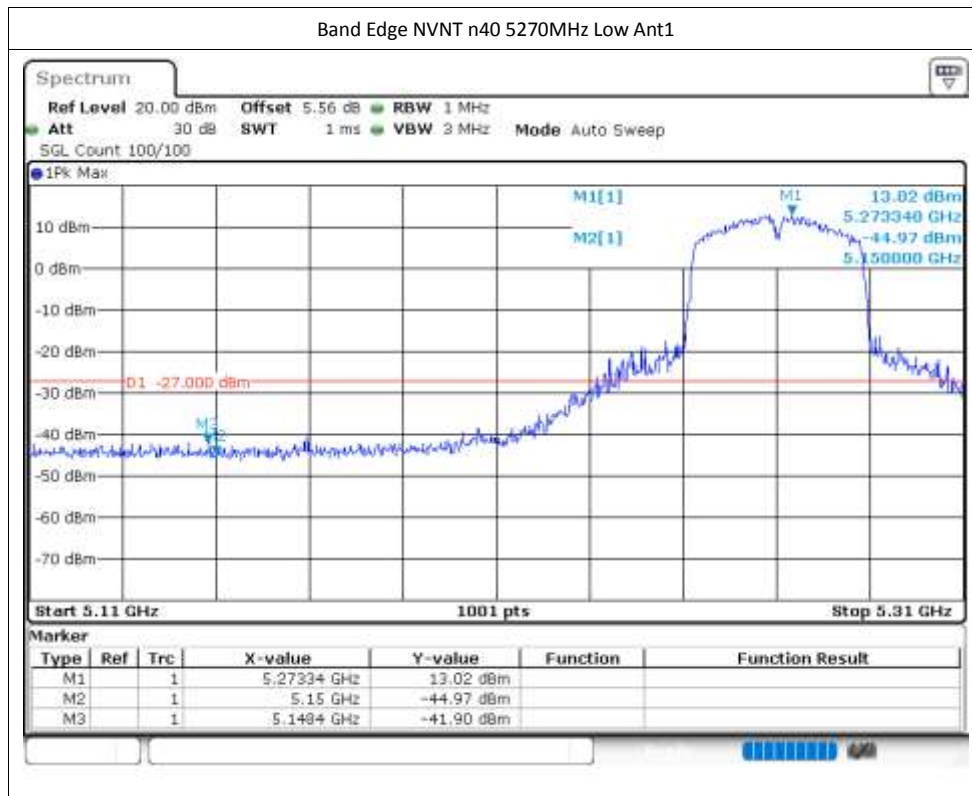
Band Edge NVNT a 5260MHz Low Ant1



Band Edge NVNT a 5320MHz High Ant1







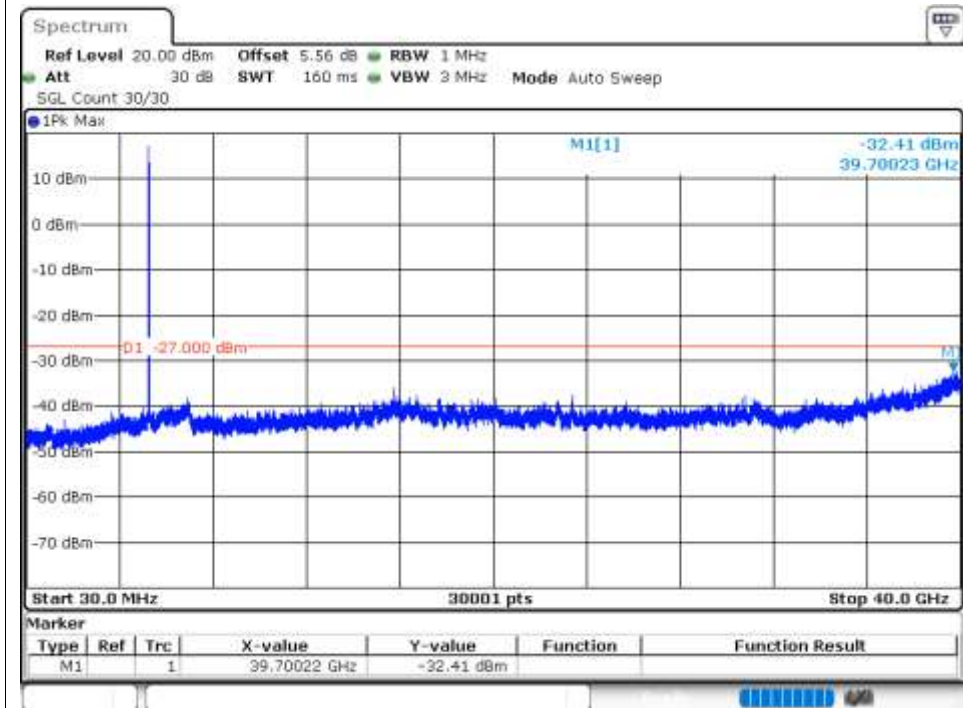
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-32.41	-27	Pass
NVNT	a	5280	Ant1	-32.9	-27	Pass
NVNT	a	5320	Ant1	-32.74	-27	Pass
NVNT	n20	5260	Ant1	-32.73	-27	Pass
NVNT	n20	5280	Ant1	-33.26	-27	Pass
NVNT	n20	5320	Ant1	-32.74	-27	Pass
NVNT	n40	5270	Ant1	-32.63	-27	Pass
NVNT	n40	5310	Ant1	-32.04	-27	Pass

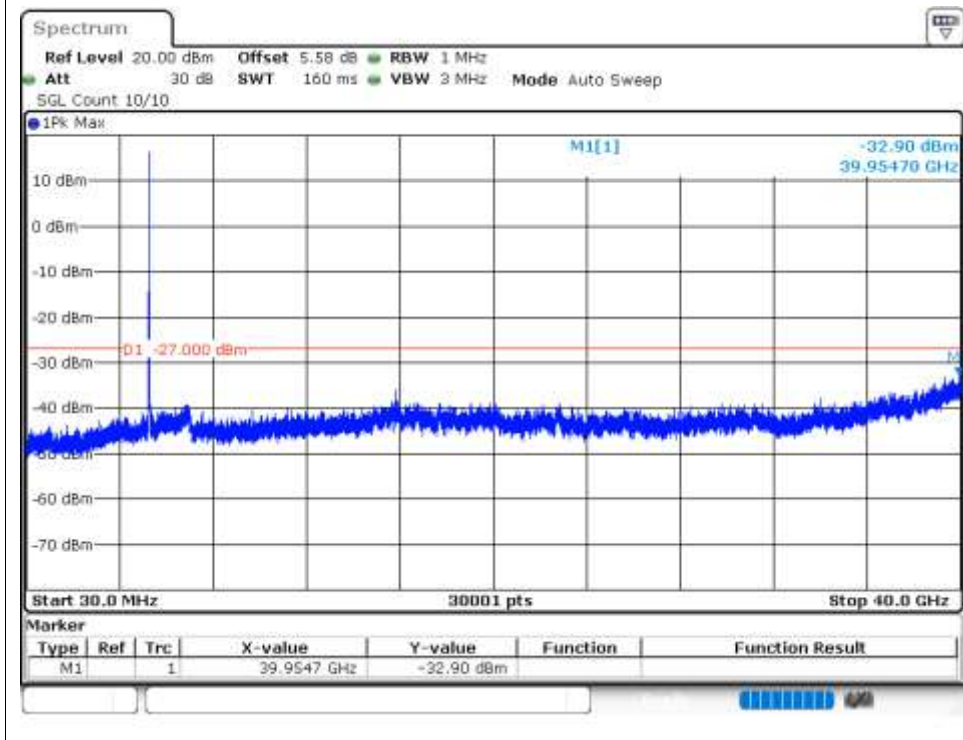
Note: This test has increased antenna gain .

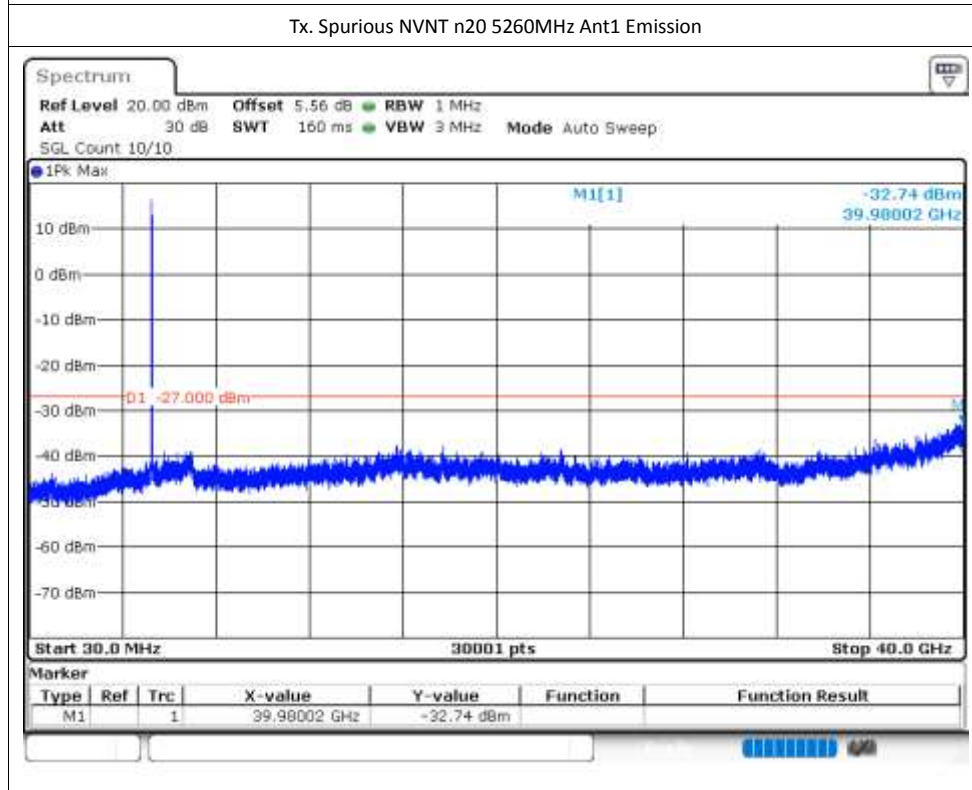
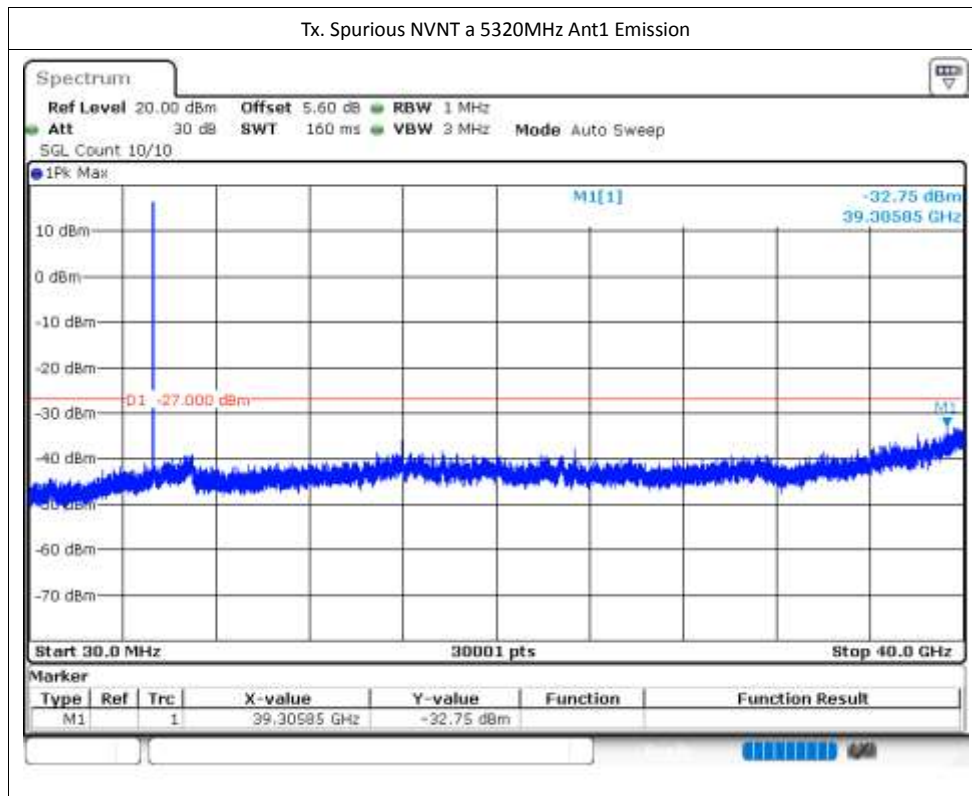
Test Graphs

Tx. Spurious NVNT a 5260MHz Ant1 Emission

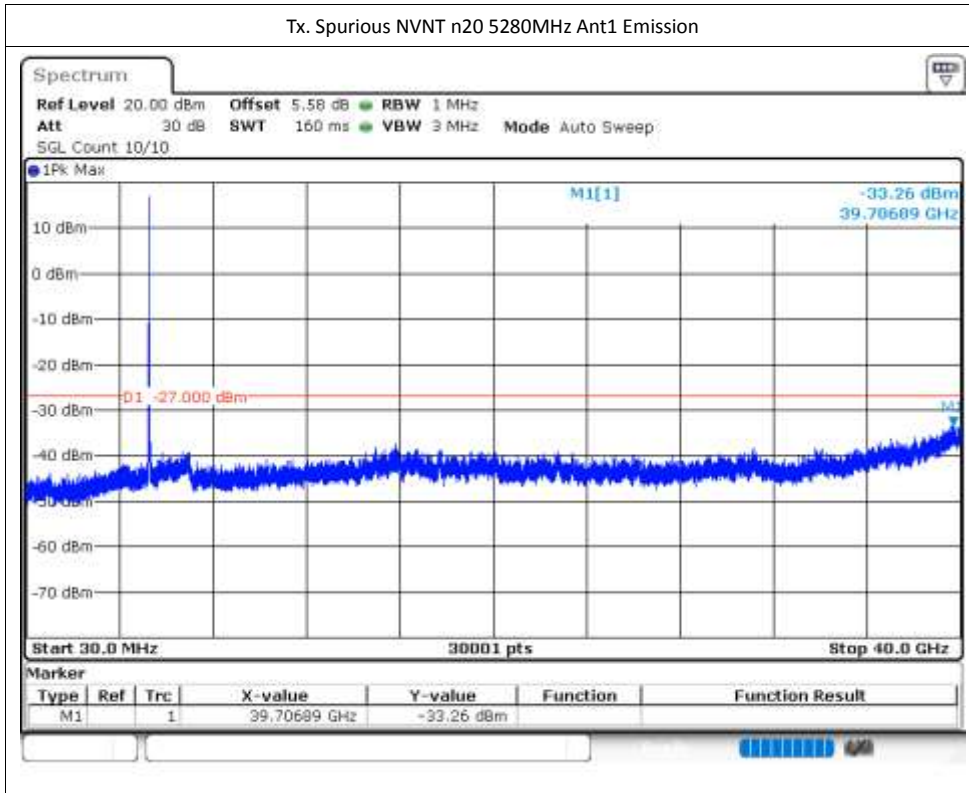


Tx. Spurious NVNT a 5280MHz Ant1 Emission

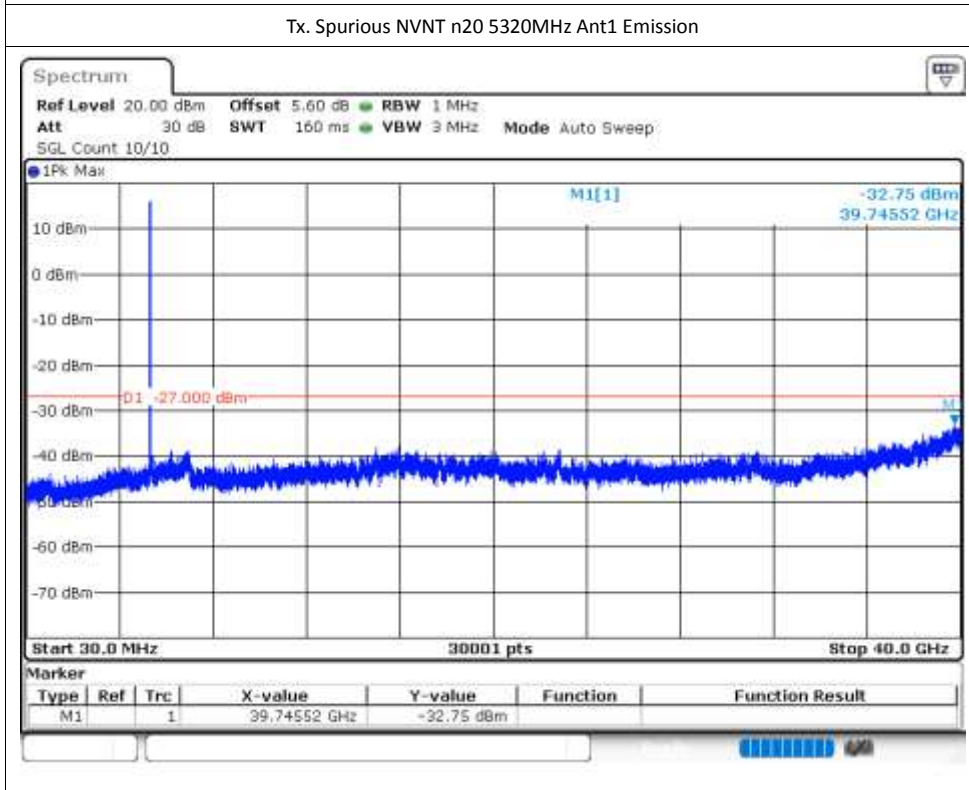




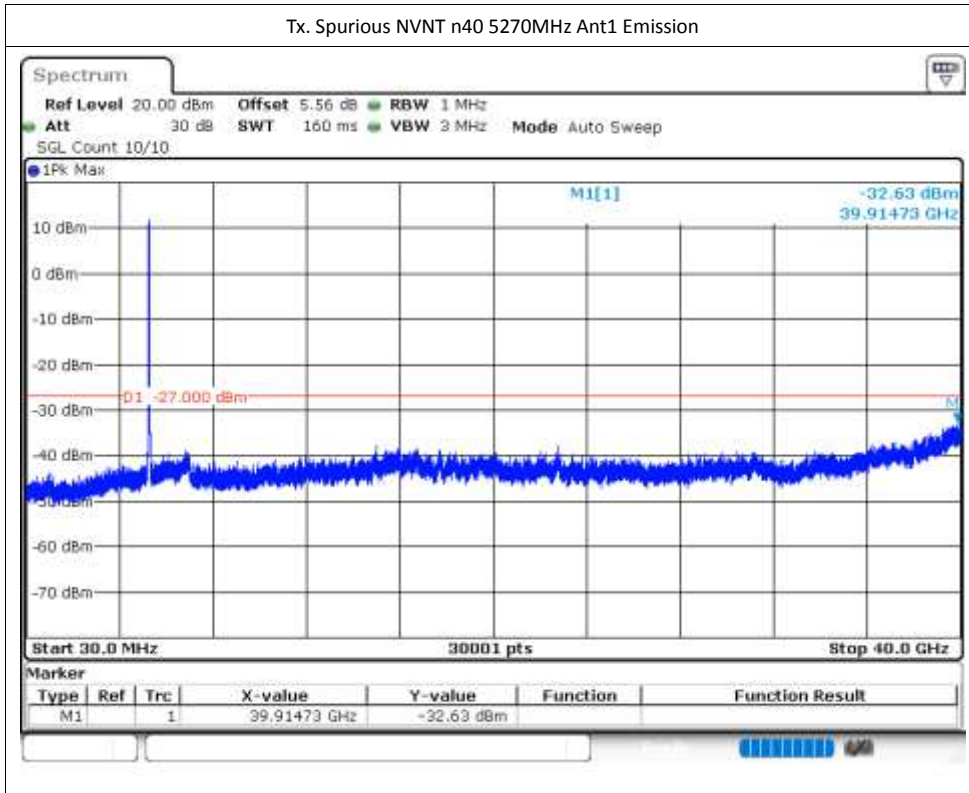
Tx. Spurious NVNT n20 5280MHz Ant1 Emission



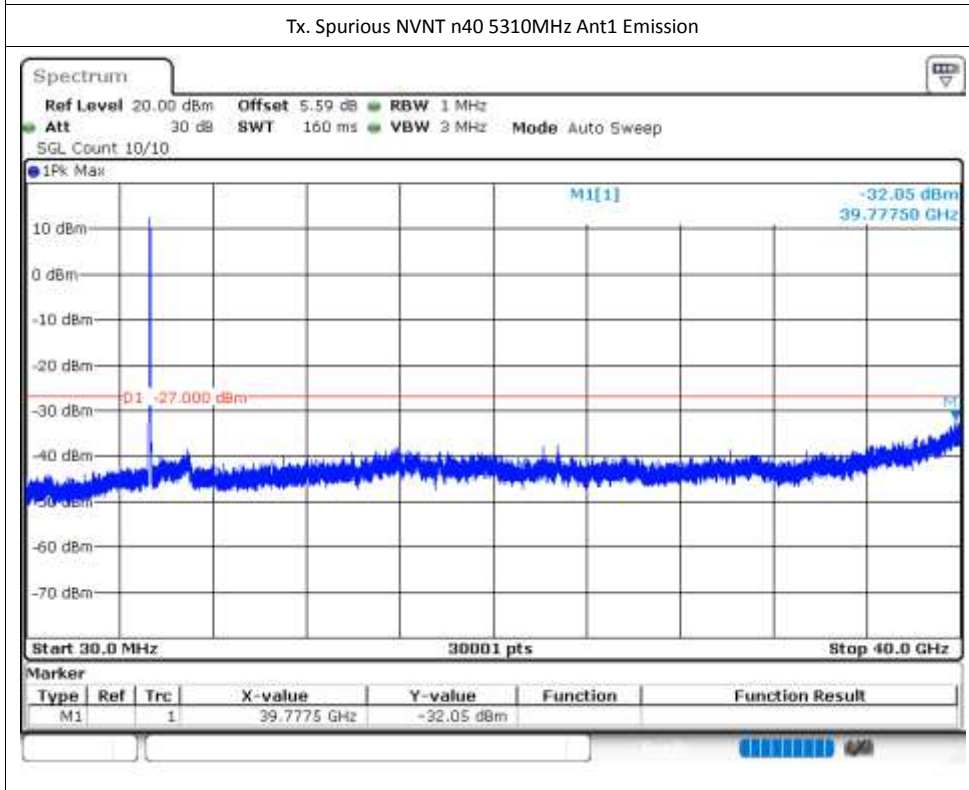
Tx. Spurious NVNT n20 5320MHz Ant1 Emission



Tx. Spurious NVNT n40 5270MHz Ant1 Emission



Tx. Spurious NVNT n40 5310MHz Ant1 Emission



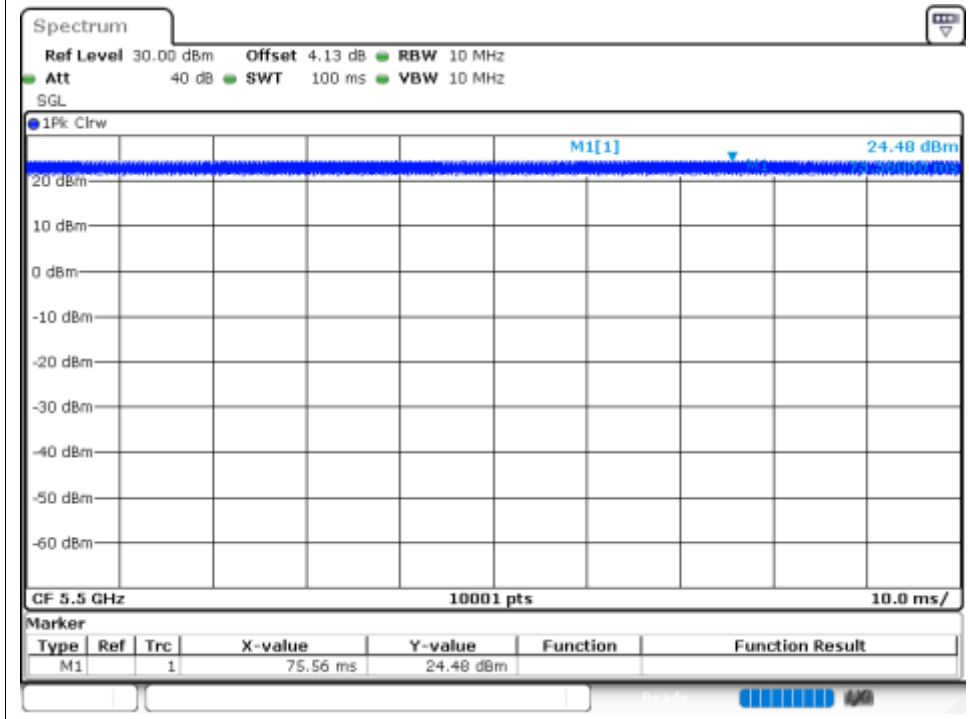
5.6G WIFI

Duty Cycle

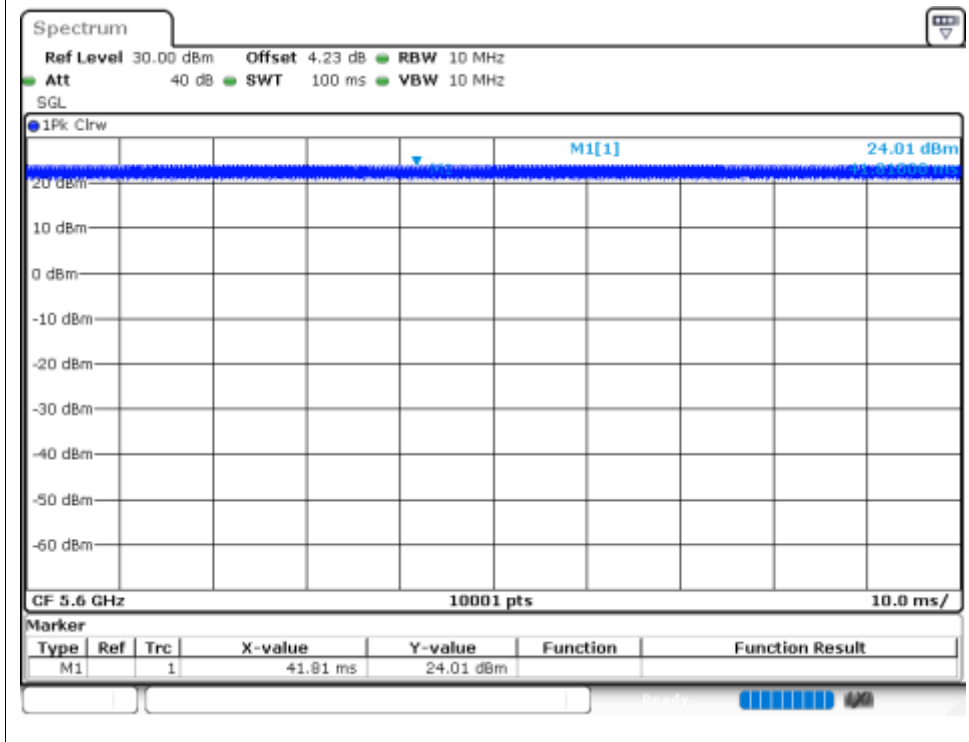
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	100	0	0
NVNT	a	5600	Ant1	100	0	0
NVNT	a	5700	Ant1	100	0	0
NVNT	n20	5500	Ant1	100	0	0
NVNT	n20	5600	Ant1	100	0	0
NVNT	n20	5700	Ant1	100	0	0
NVNT	n40	5510	Ant1	100	0	0
NVNT	n40	5590	Ant1	100	0	0
NVNT	n40	5670	Ant1	100	0	0

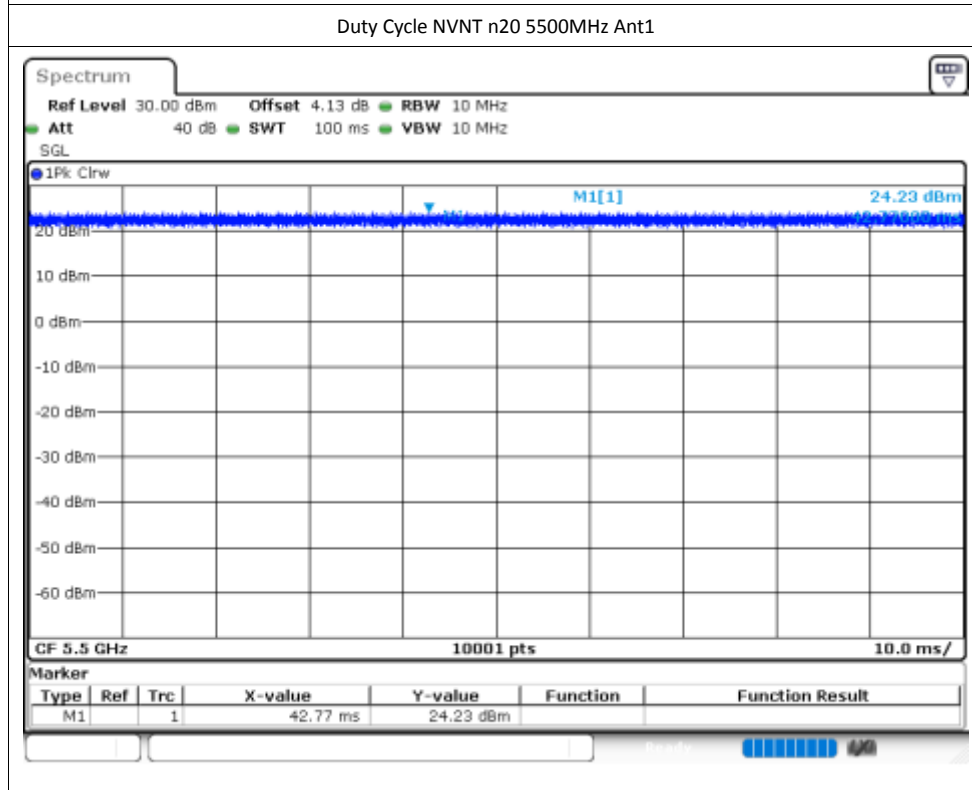
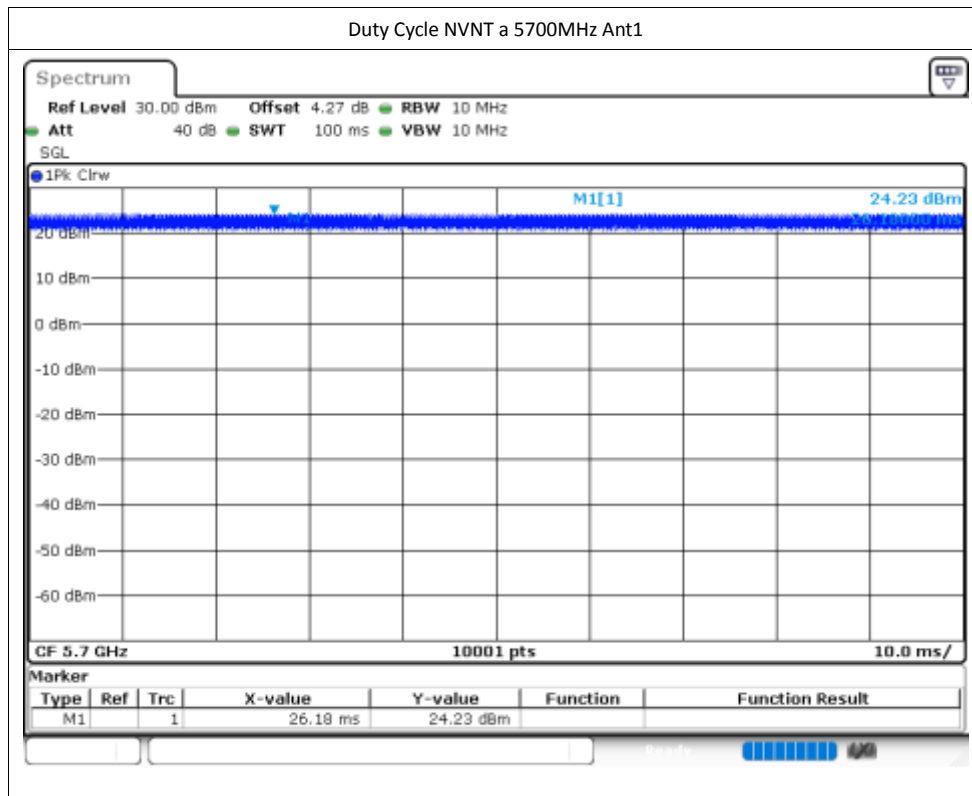
Test Graphs

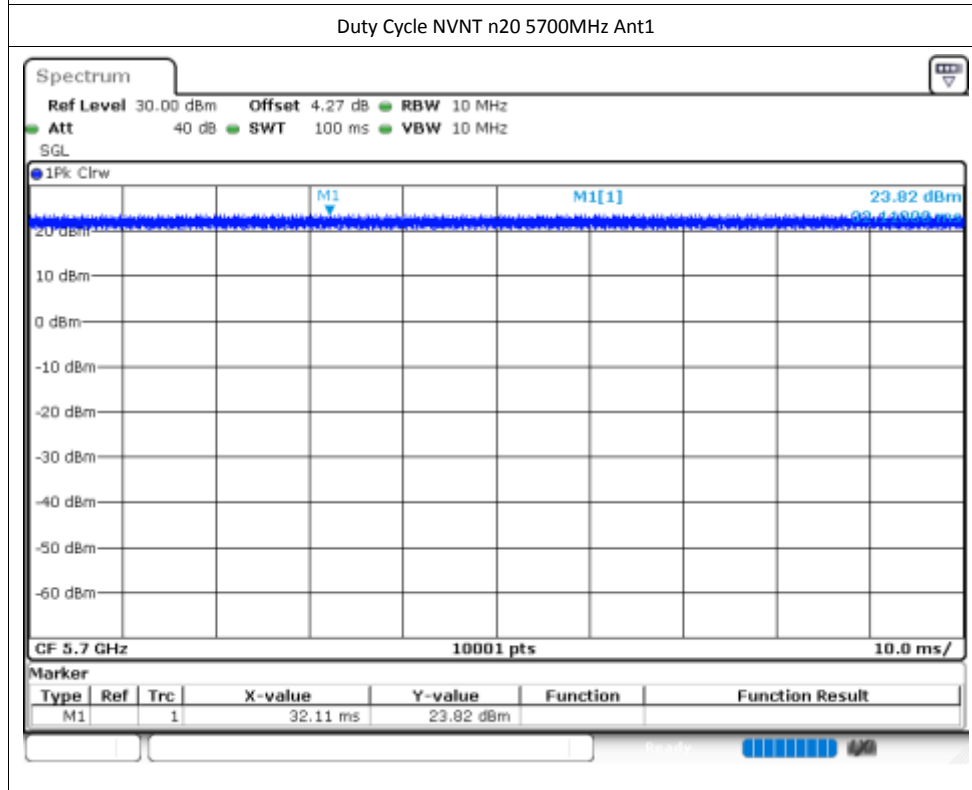
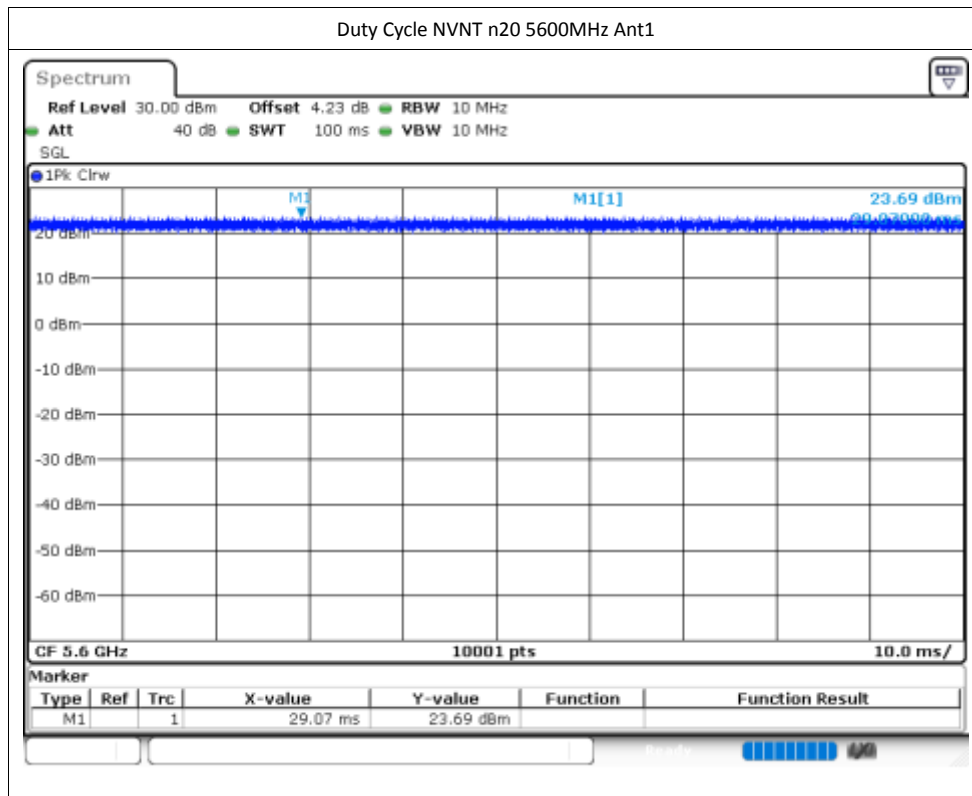
Duty Cycle NVNT a 5500MHz Ant1

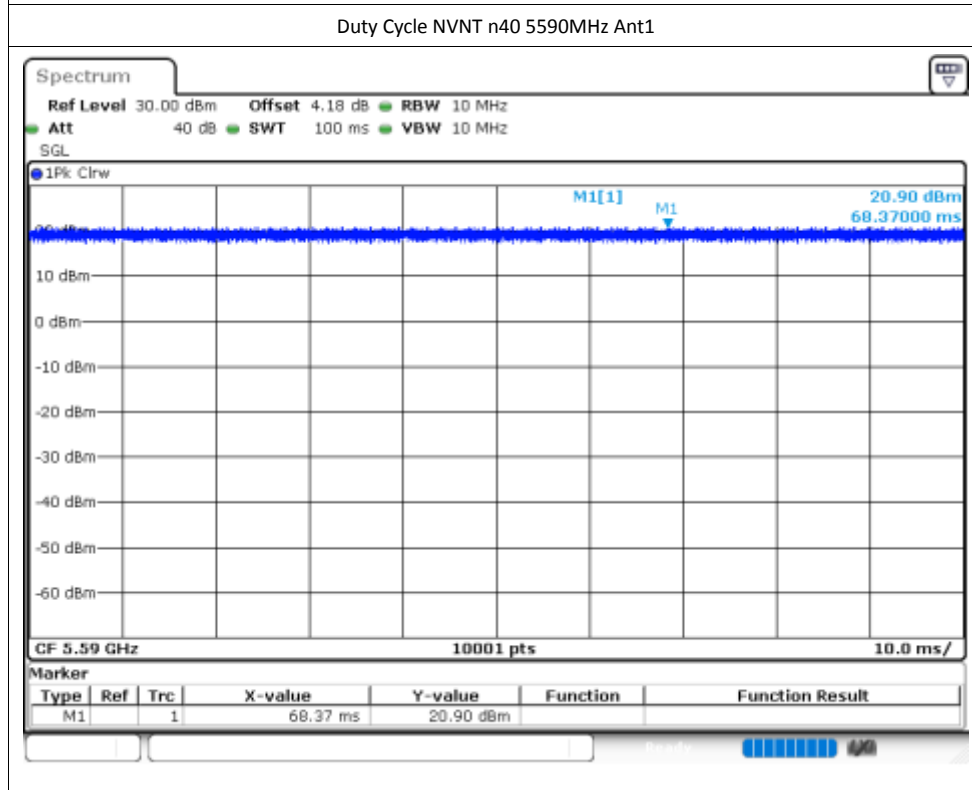
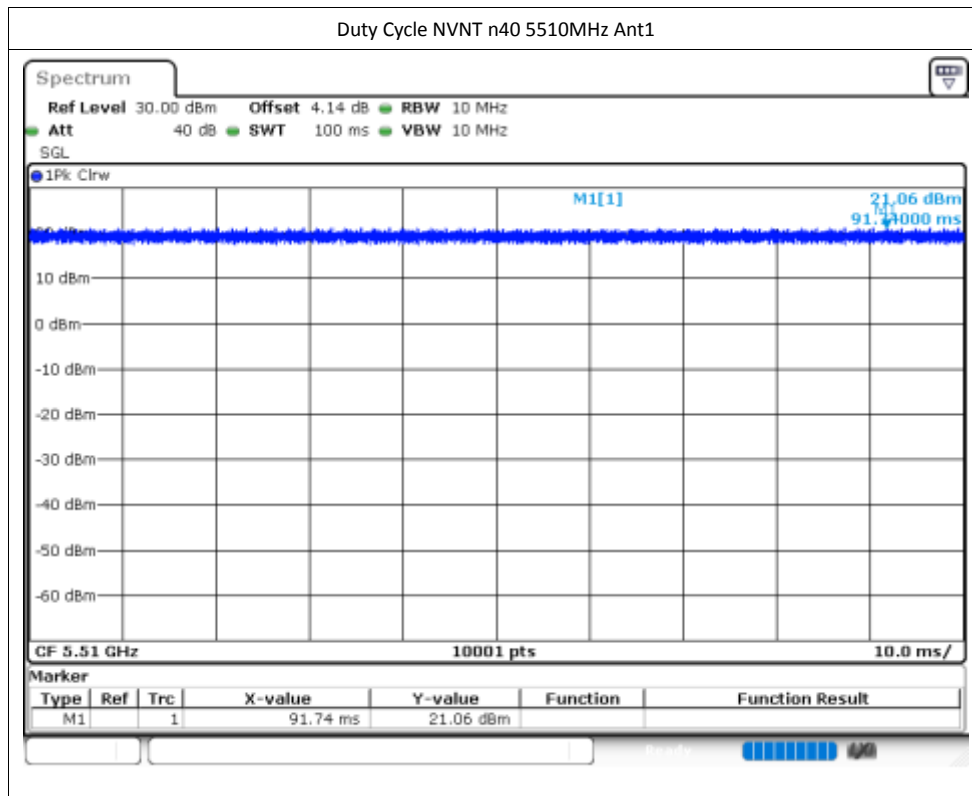


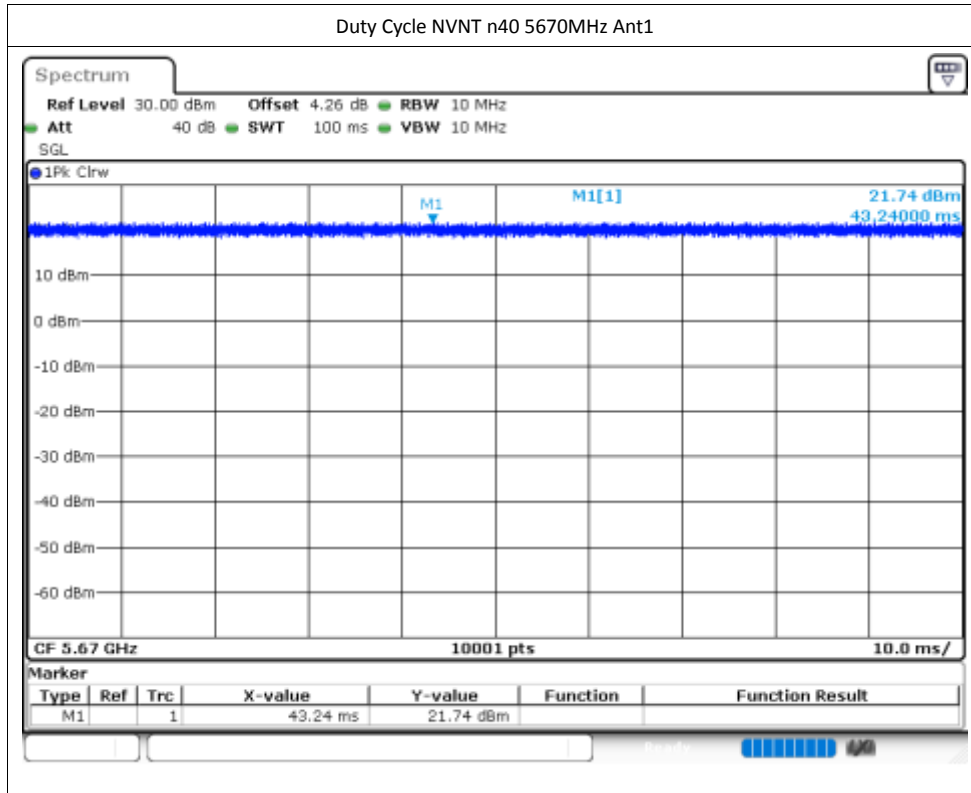
Duty Cycle NVNT a 5600MHz Ant1











Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	17.89	23.12	Pass
NVNT	a	5600	Ant1	17.95	23.14	Pass
NVNT	a	5700	Ant1	17.92	23.12	Pass
NVNT	n20	5500	Ant1	17.38	23.42	Pass
NVNT	n20	5600	Ant1	17.17	23.42	Pass
NVNT	n20	5700	Ant1	17.43	23.42	Pass
NVNT	n40	5510	Ant1	16.62	24	Pass
NVNT	n40	5590	Ant1	16.62	24	Pass
NVNT	n40	5670	Ant1	17.78	24	Pass

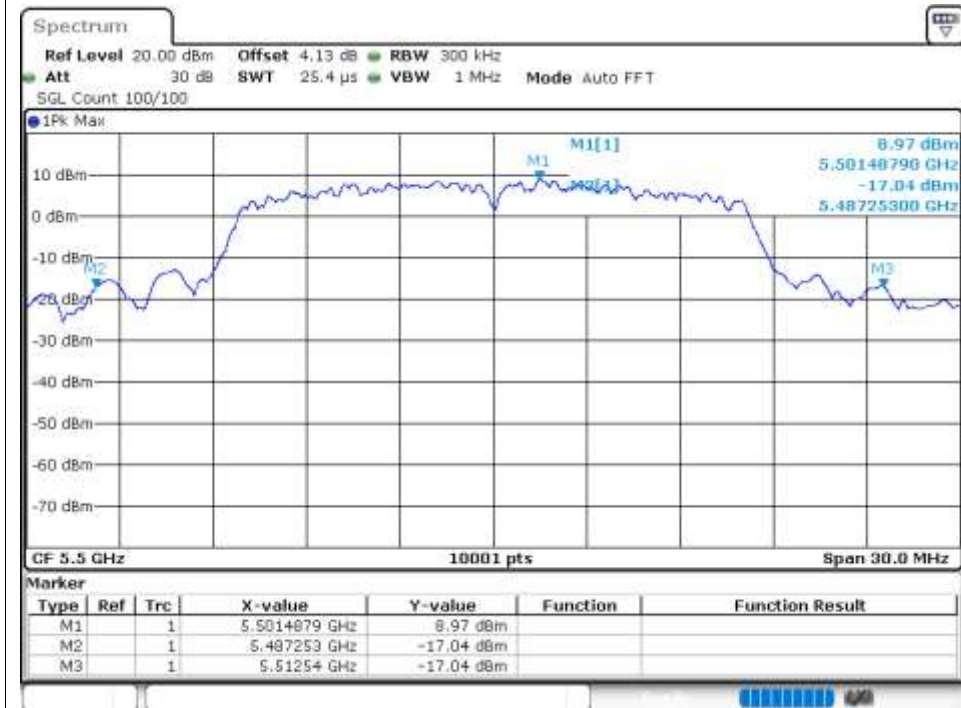
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

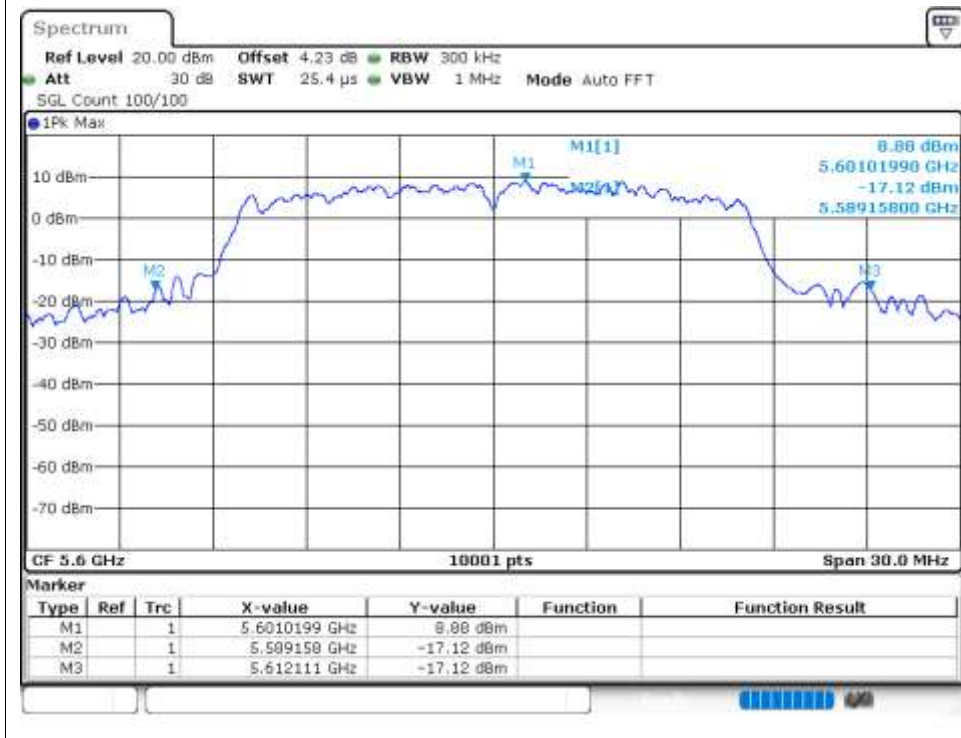
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	25.287	0.5	Pass
NVNT	a	5600	Ant1	22.953	0.5	Pass
NVNT	a	5700	Ant1	19.812	0.5	Pass
NVNT	n20	5500	Ant1	21.228	0.5	Pass
NVNT	n20	5600	Ant1	20.712	0.5	Pass
NVNT	n20	5700	Ant1	20.454	0.5	Pass
NVNT	n40	5510	Ant1	38.424	0.5	Pass
NVNT	n40	5590	Ant1	38.406	0.5	Pass
NVNT	n40	5670	Ant1	40.368	0.5	Pass

Test Graphs

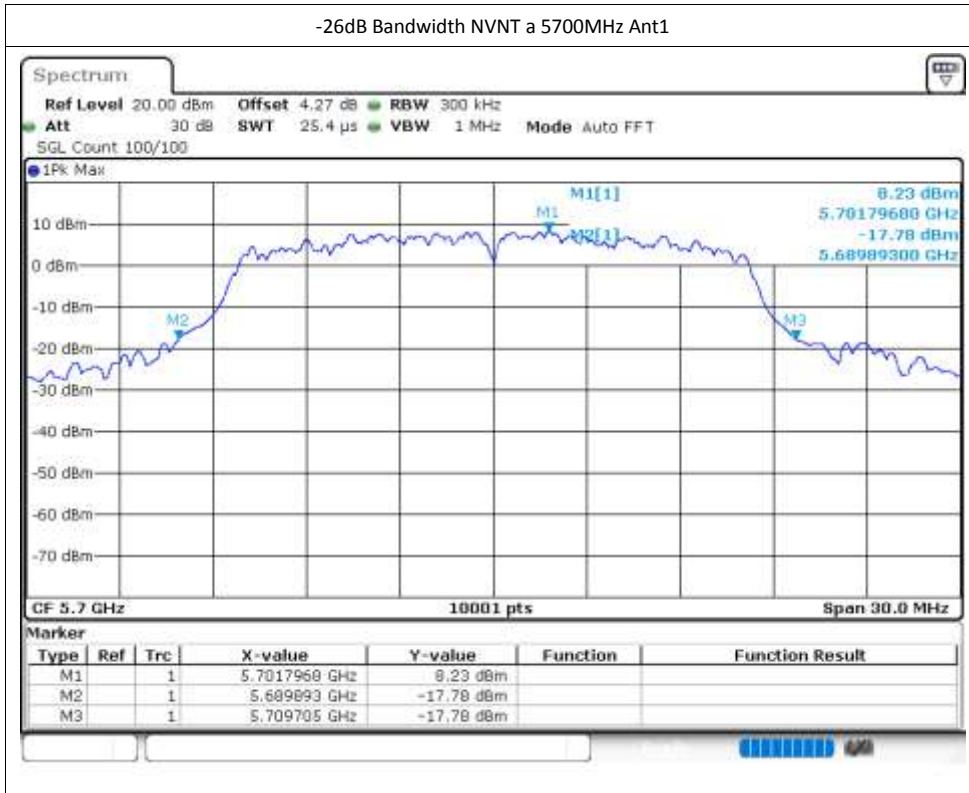
-26dB Bandwidth NVNT a 5500MHz Ant1



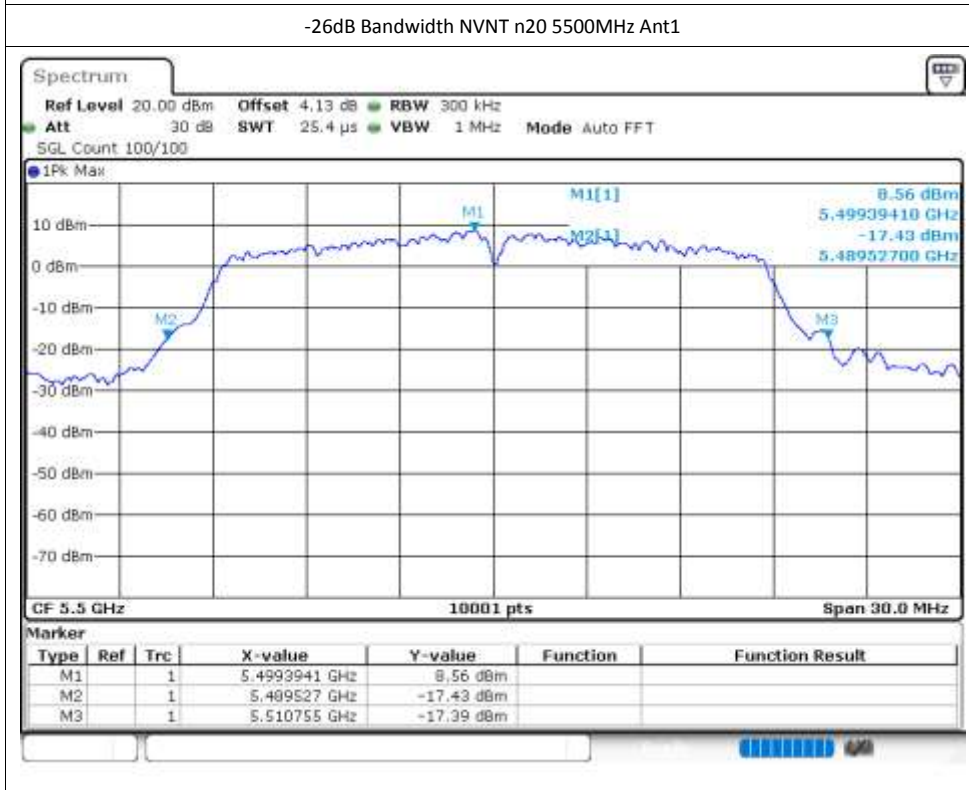
-26dB Bandwidth NVNT a 5600MHz Ant1



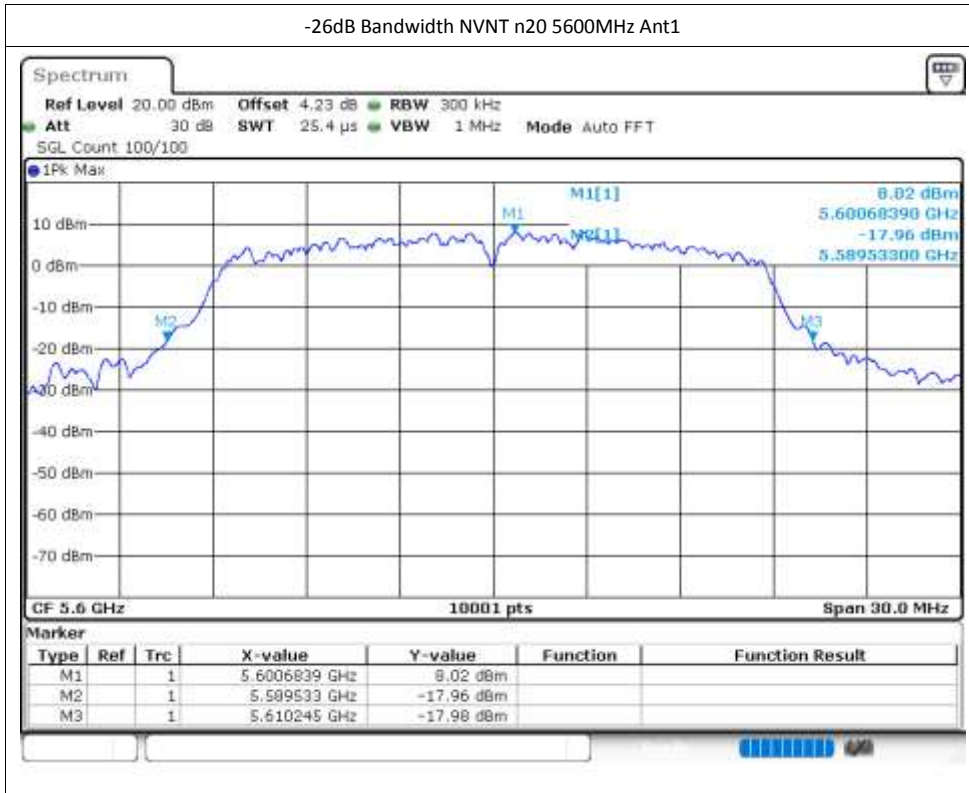
-26dB Bandwidth NVNT a 5700MHz Ant1



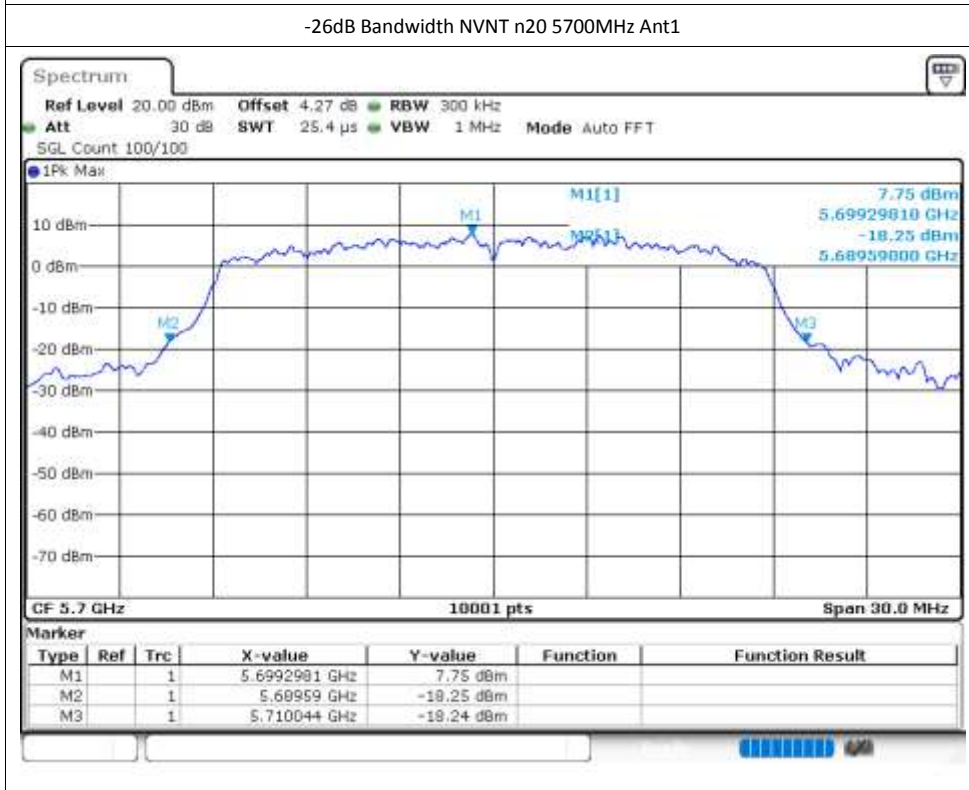
-26dB Bandwidth NVNT n20 5500MHz Ant1



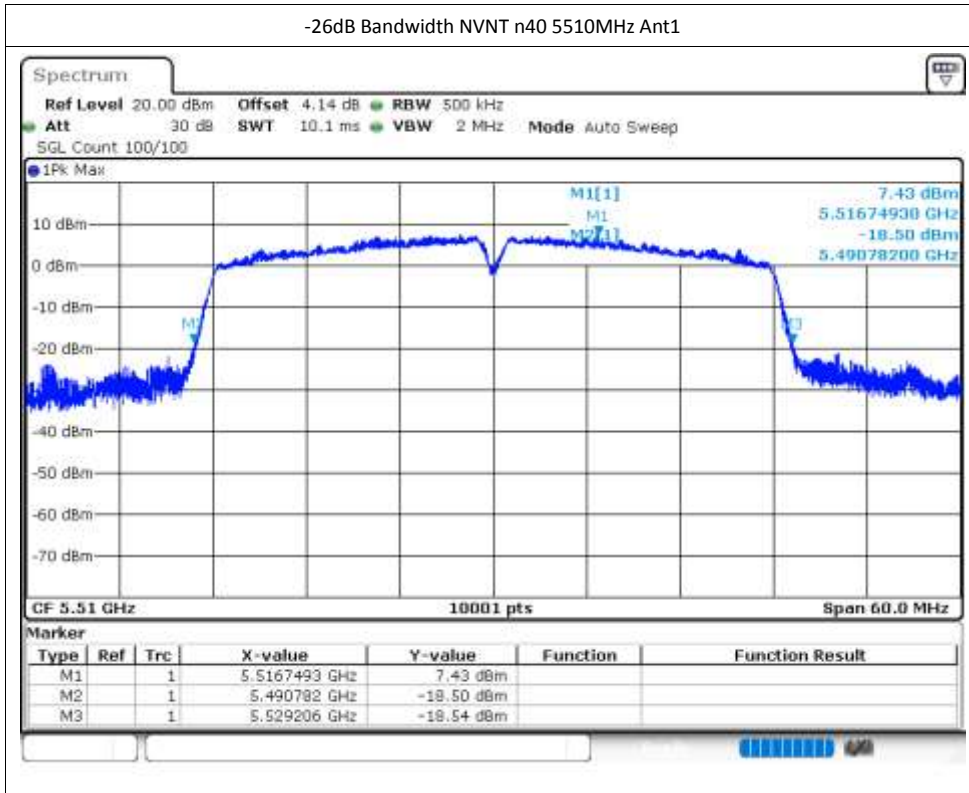
-26dB Bandwidth NVNT n20 5600MHz Ant1



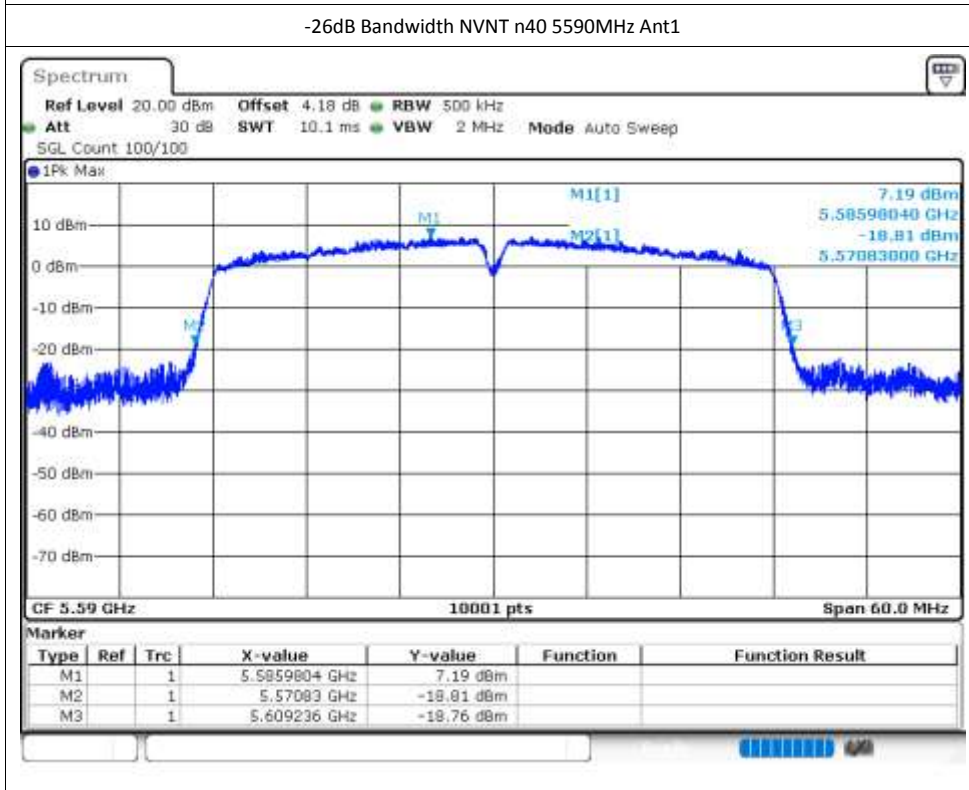
-26dB Bandwidth NVNT n20 5700MHz Ant1

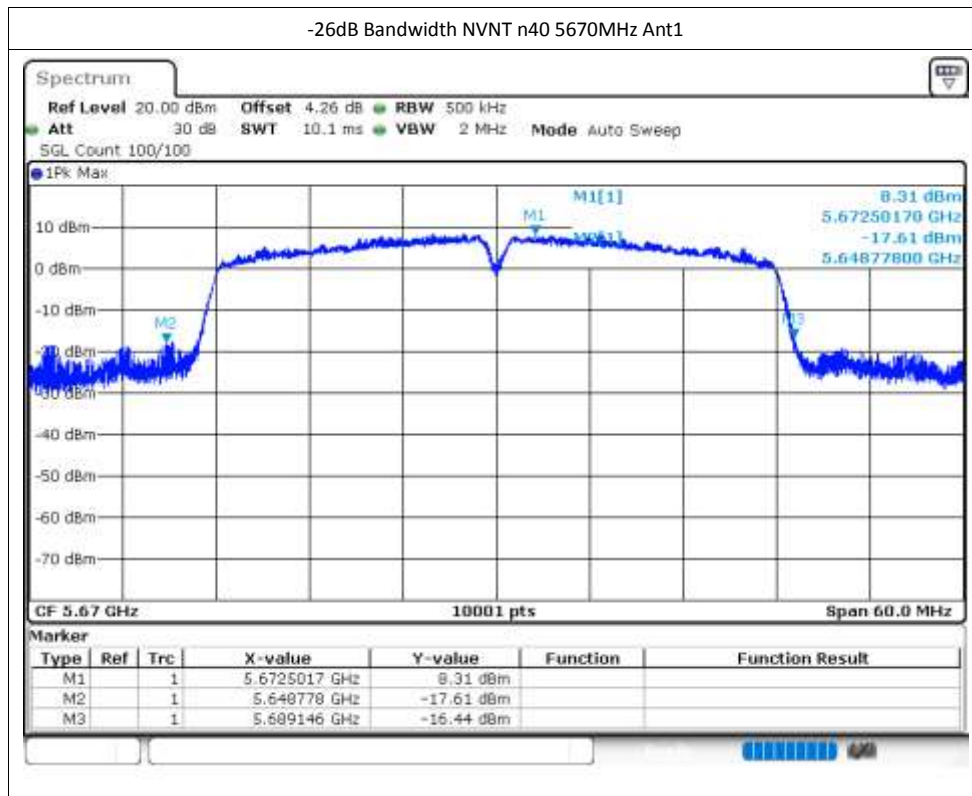


-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5590MHz Ant1





Occupied Channel Bandwidth

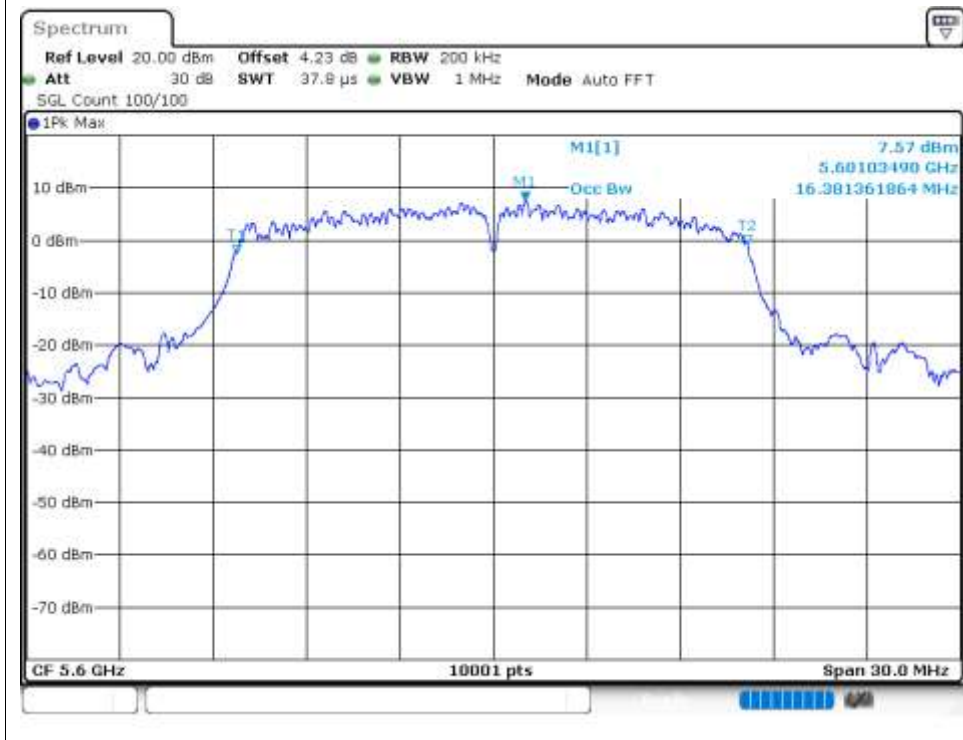
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.297
NVNT	a	5600	Ant1	16.381
NVNT	a	5700	Ant1	16.276
NVNT	n20	5500	Ant1	17.452
NVNT	n20	5600	Ant1	17.443
NVNT	n20	5700	Ant1	17.455
NVNT	n40	5510	Ant1	35.33
NVNT	n40	5590	Ant1	35.36
NVNT	n40	5670	Ant1	35.39

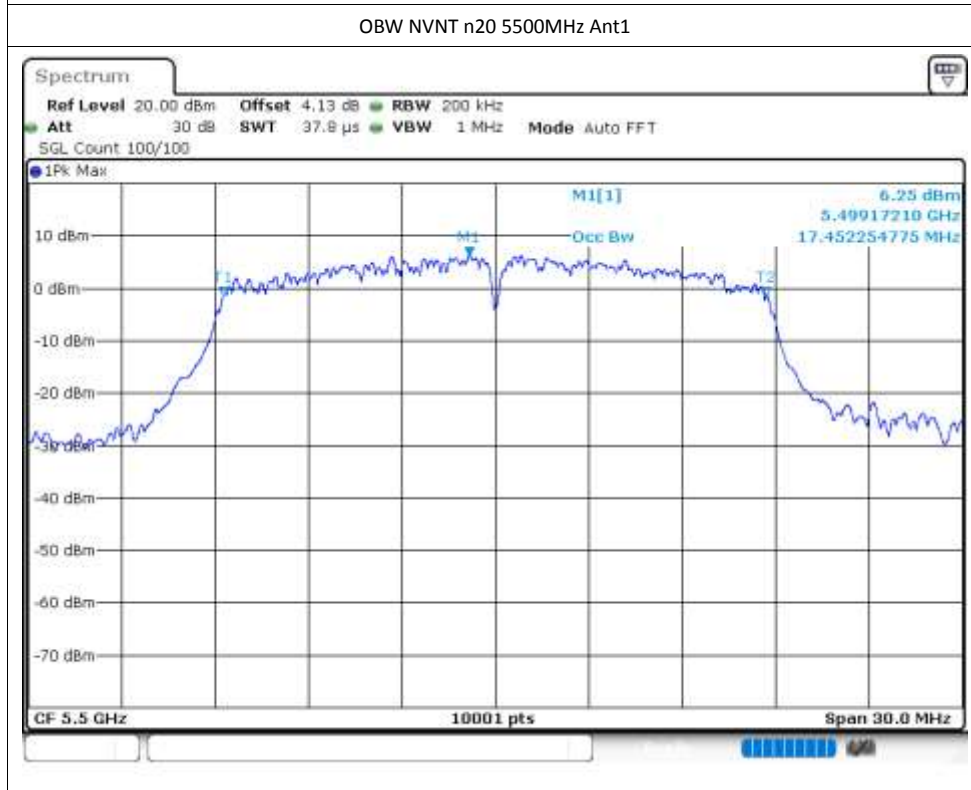
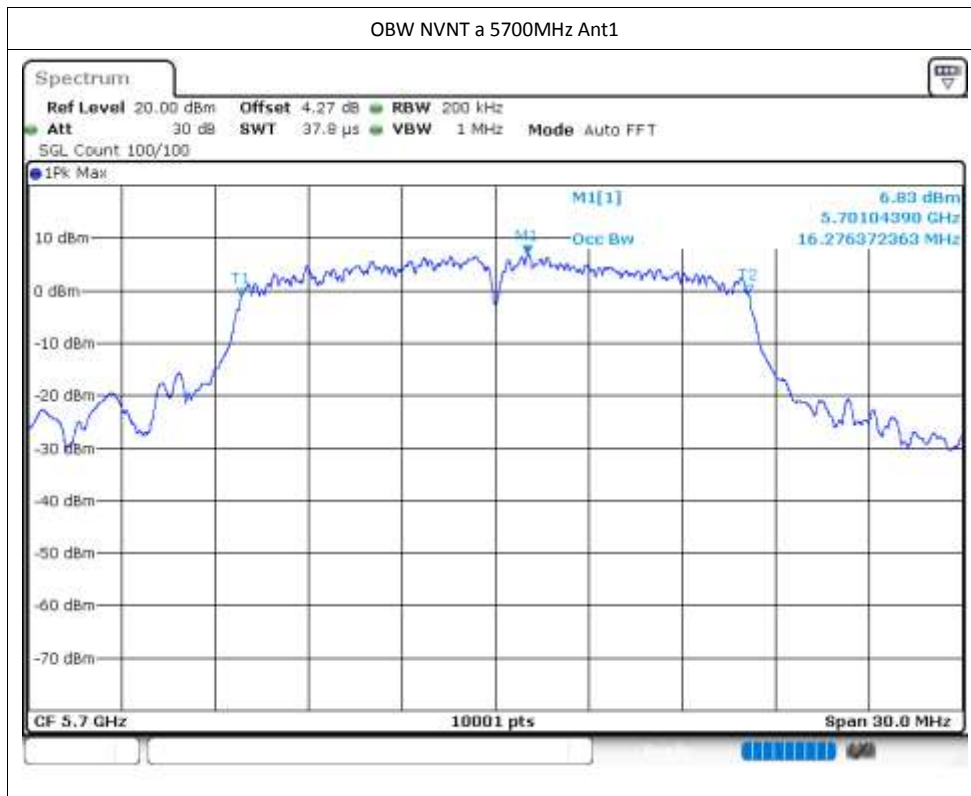
Test Graphs

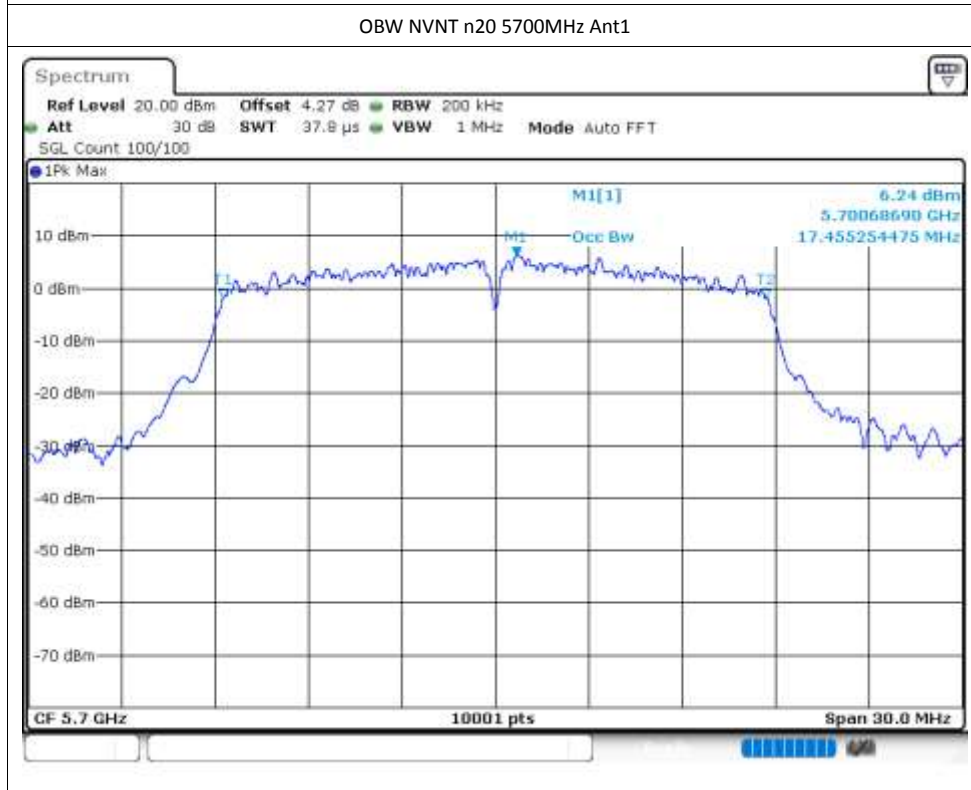
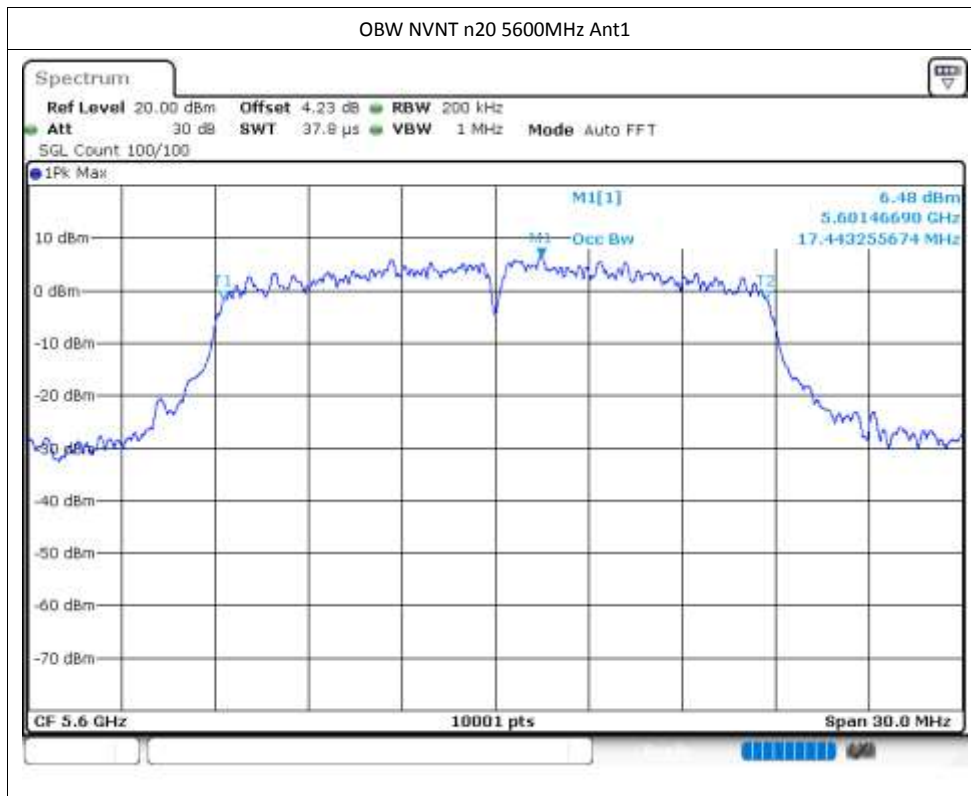
OBW NVNT a 5500MHz Ant1

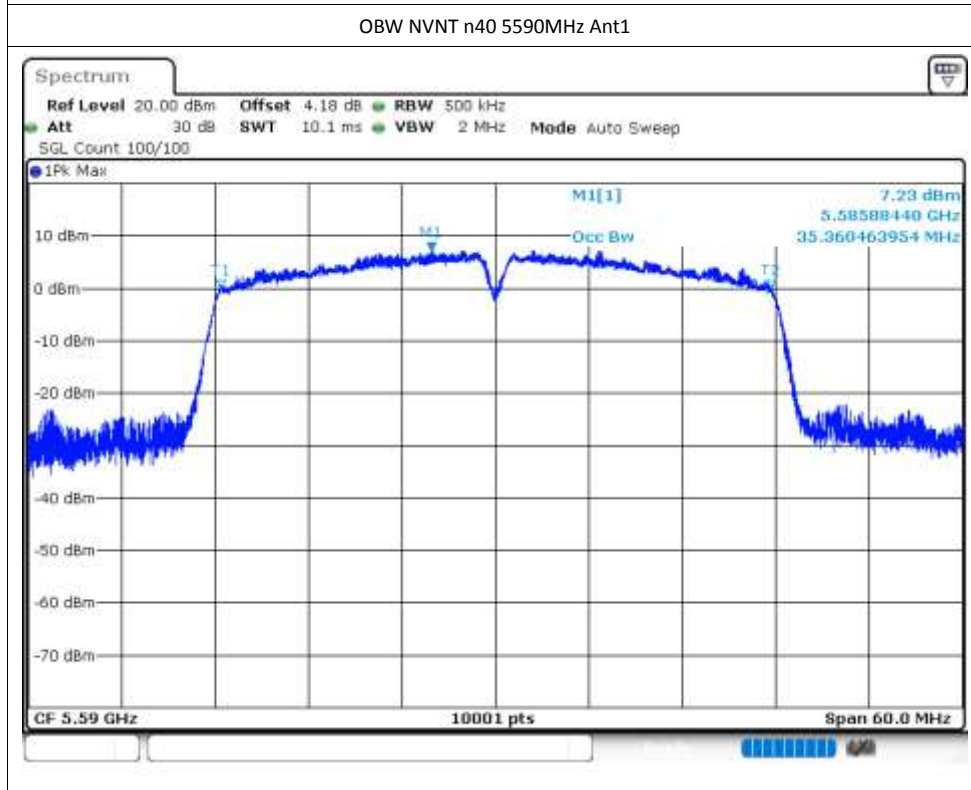
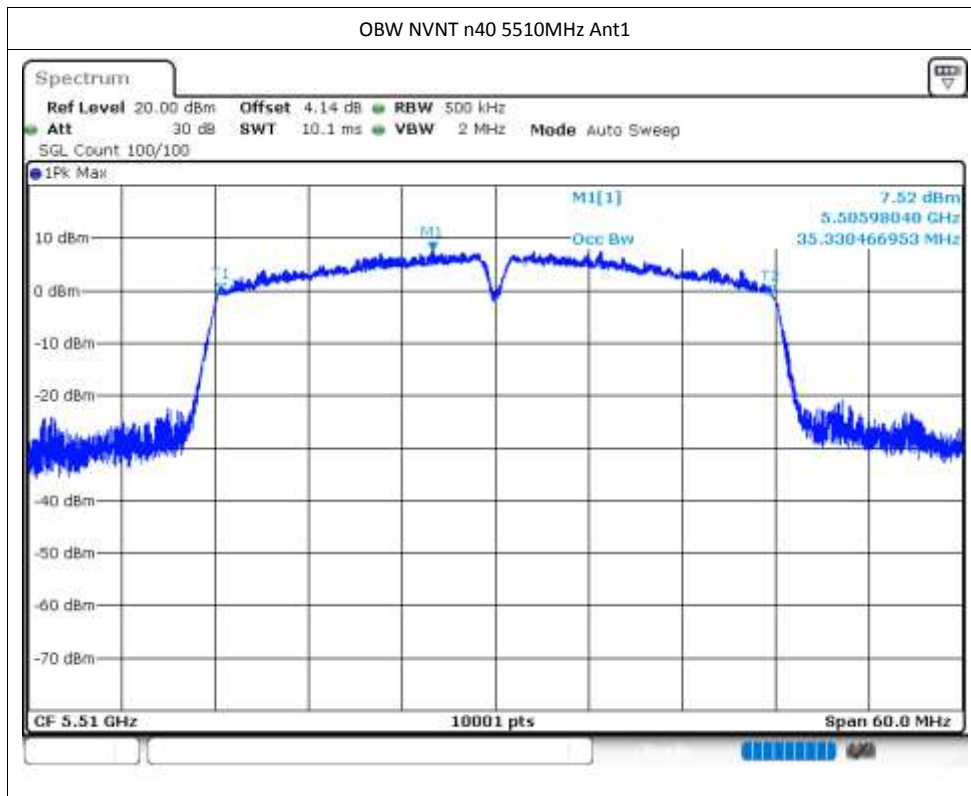


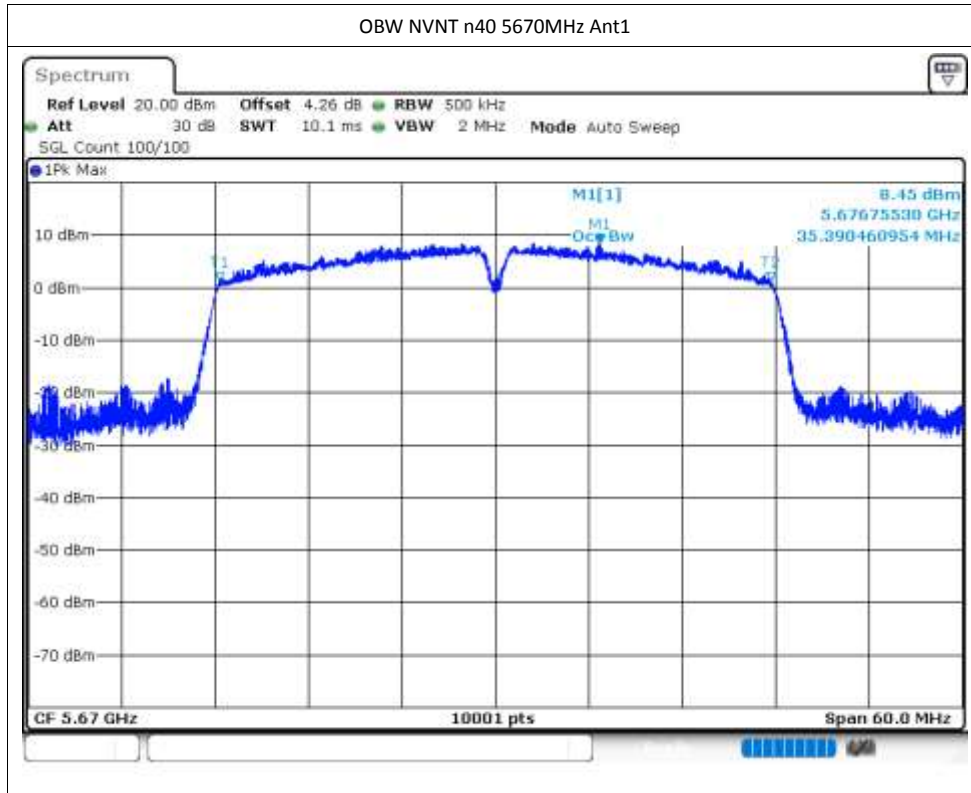
OBW NVNT a 5600MHz Ant1









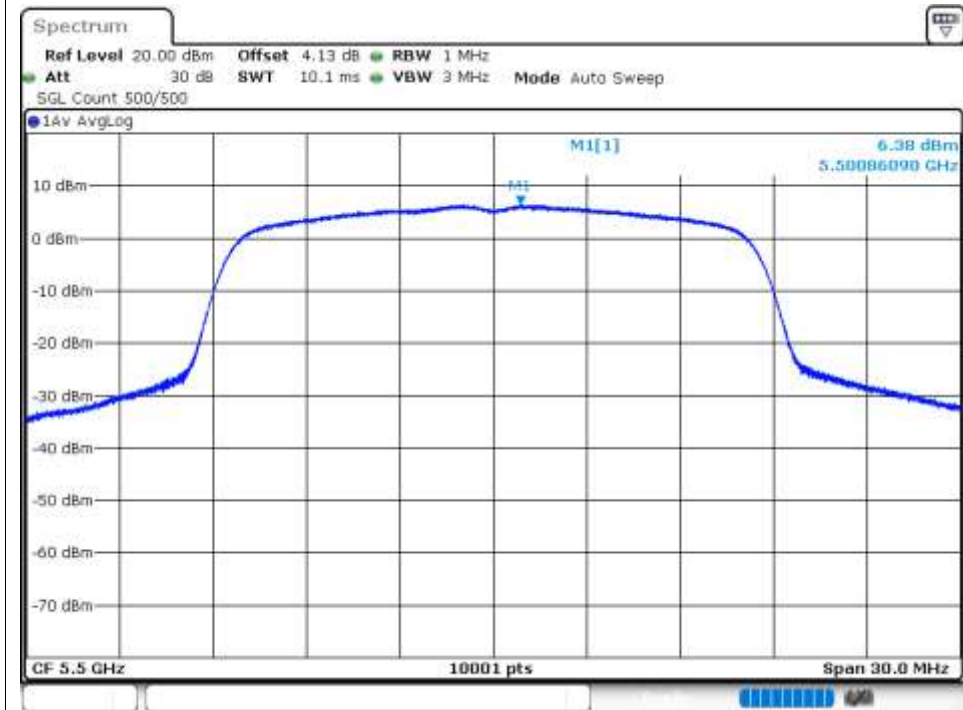


Maximum Power Spectral Density Level

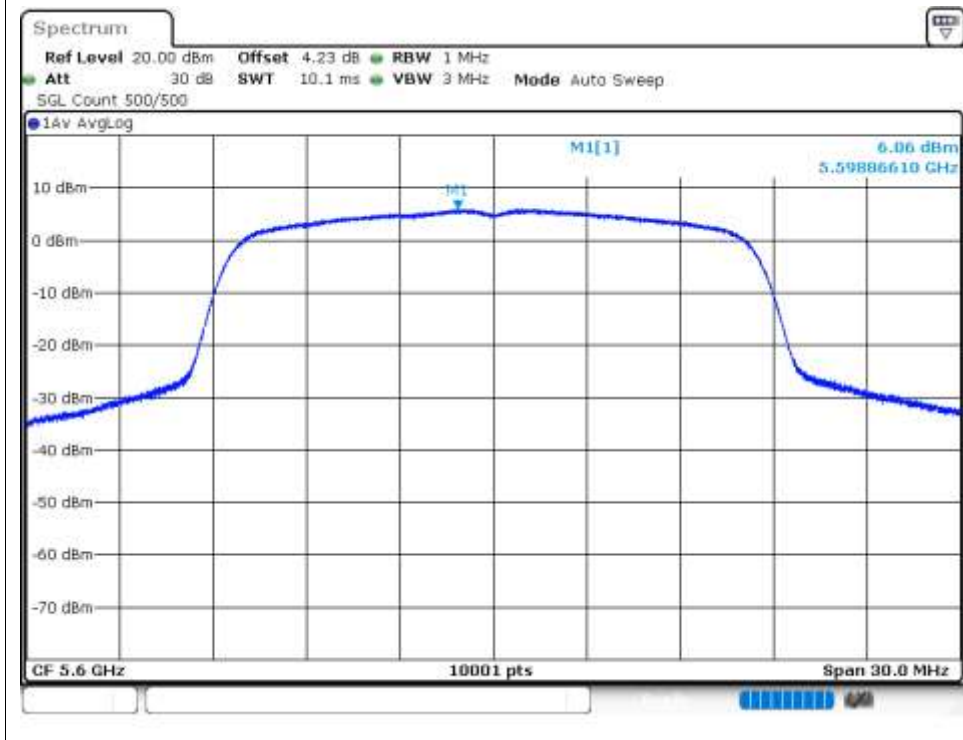
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	6.38	0	6.38	11	Pass
NVNT	a	5600	Ant1	6.06	0	6.06	11	Pass
NVNT	a	5700	Ant1	5.92	0	5.92	11	Pass
NVNT	n20	5500	Ant1	5.5	0	5.5	11	Pass
NVNT	n20	5600	Ant1	4.82	0	4.82	11	Pass
NVNT	n20	5700	Ant1	4.89	0	4.89	11	Pass
NVNT	n40	5510	Ant1	2.01	0	2.01	11	Pass
NVNT	n40	5590	Ant1	1.77	0	1.77	11	Pass
NVNT	n40	5670	Ant1	2.94	0	2.94	11	Pass

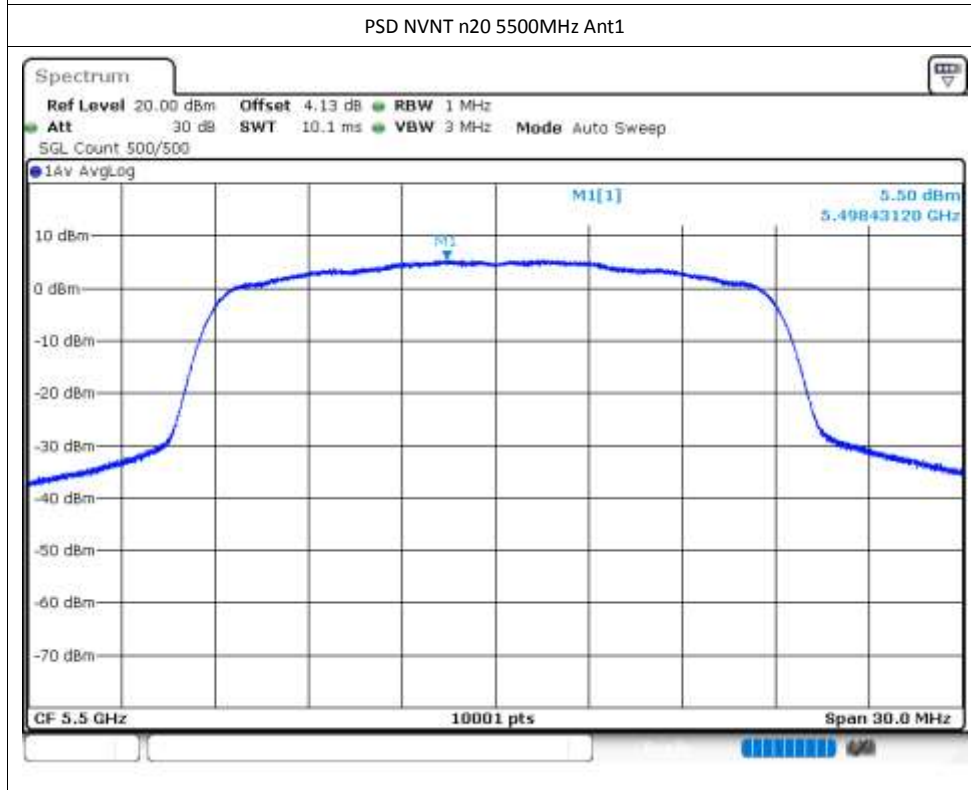
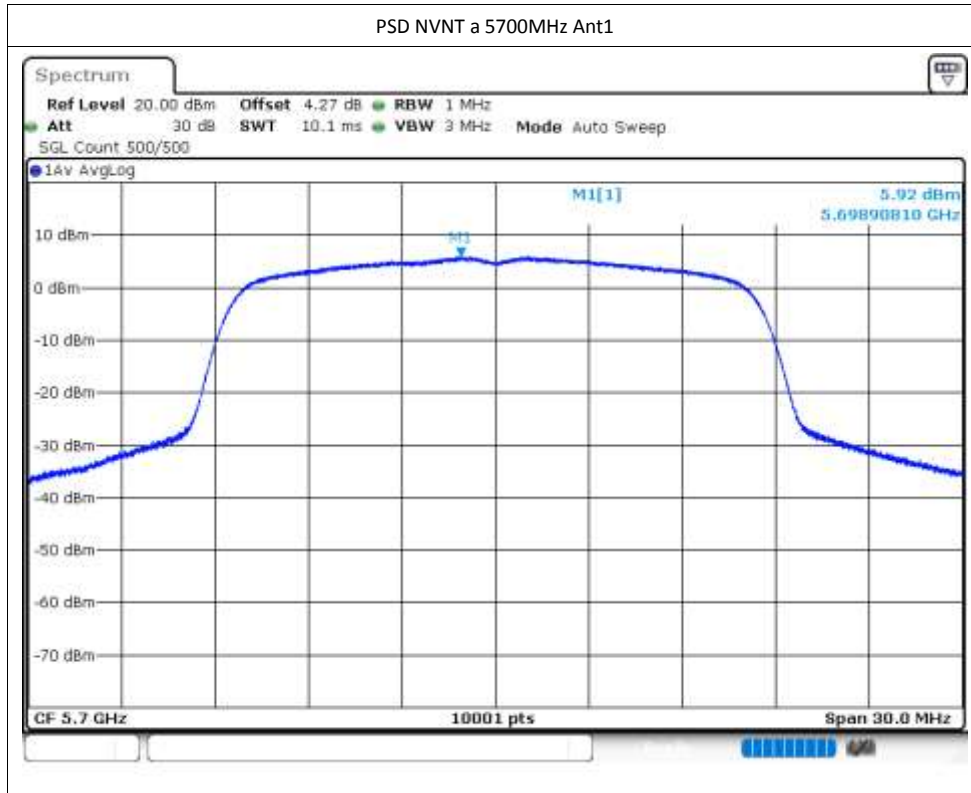
Test Graphs

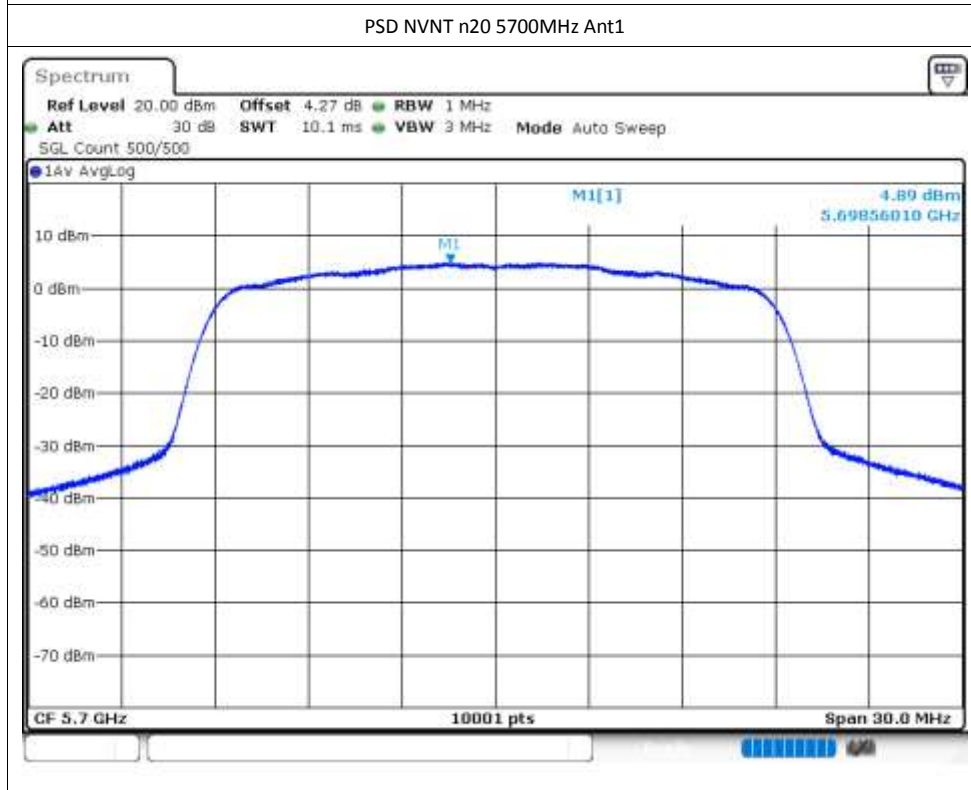
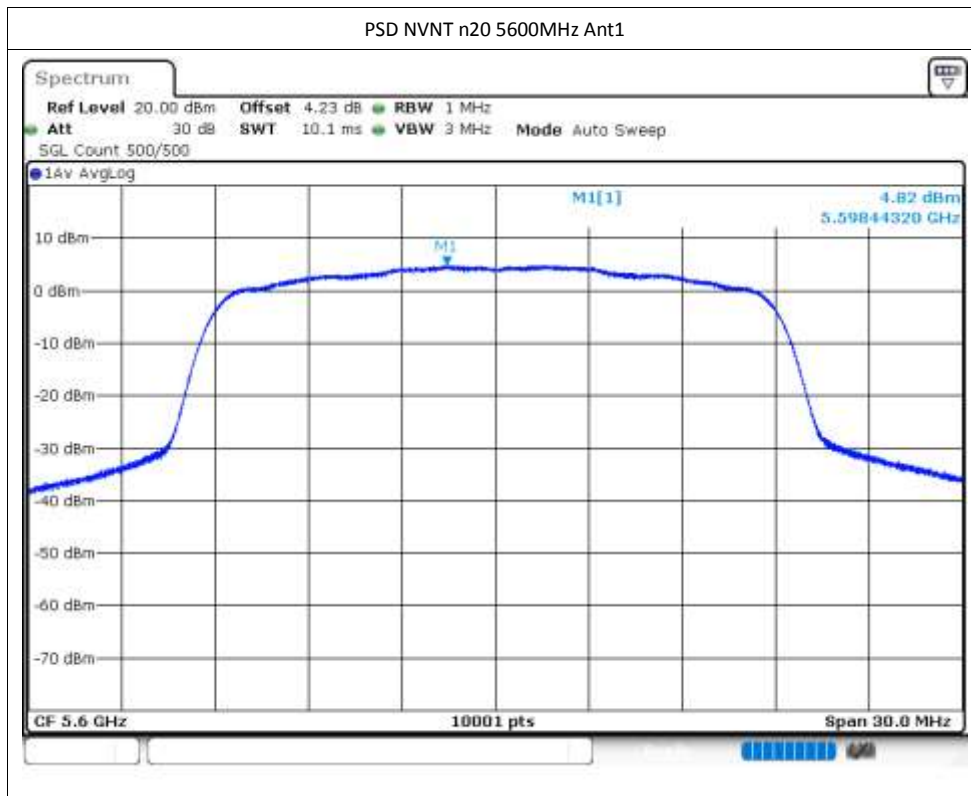
PSD NVNT a 5500MHz Ant1

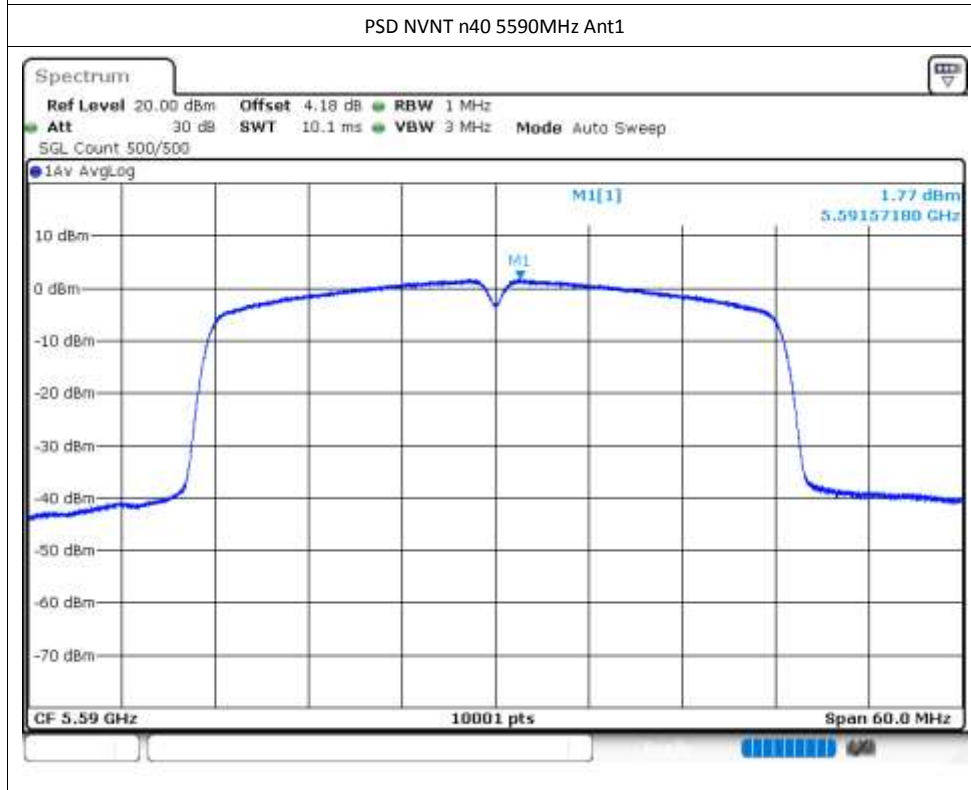
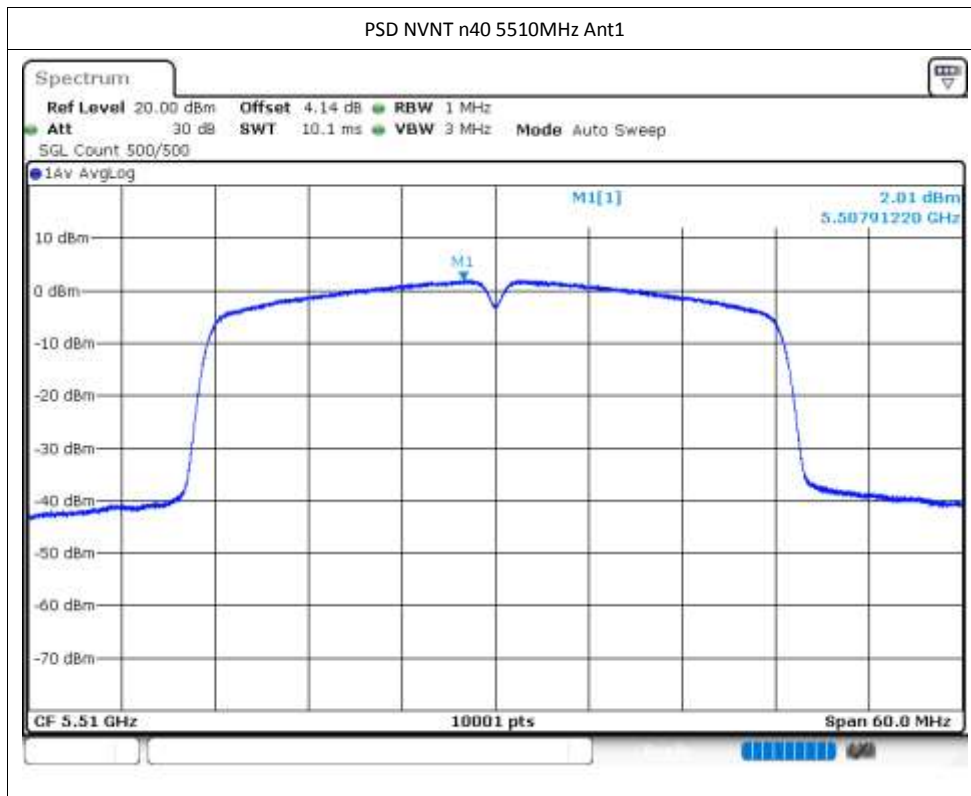


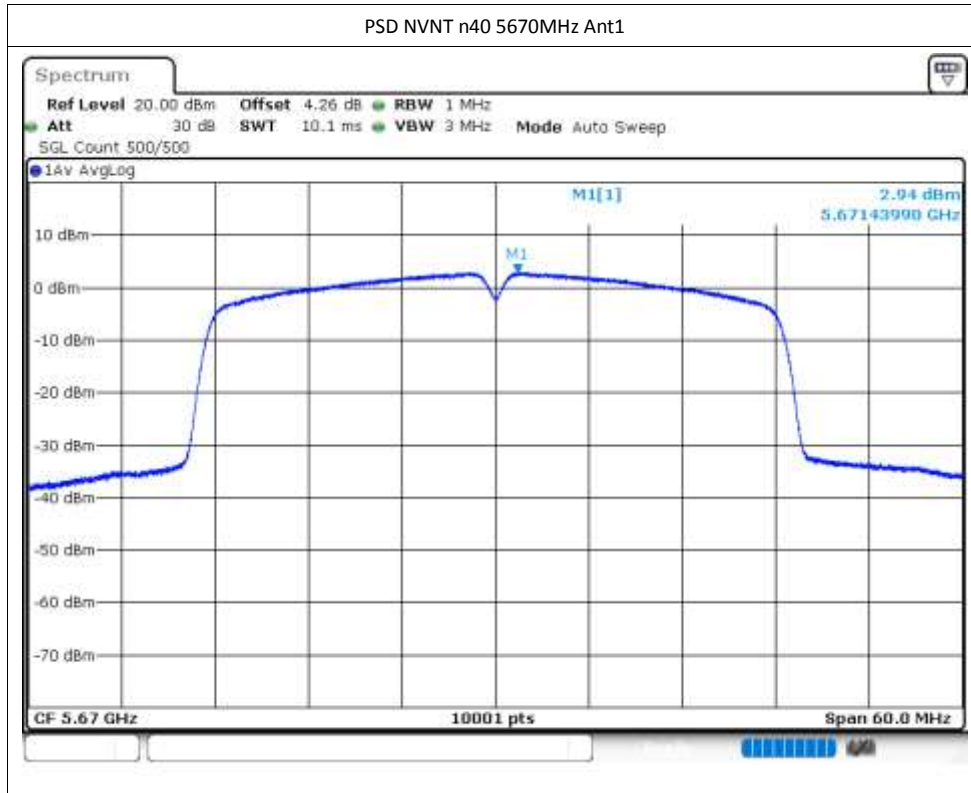
PSD NVNT a 5600MHz Ant1











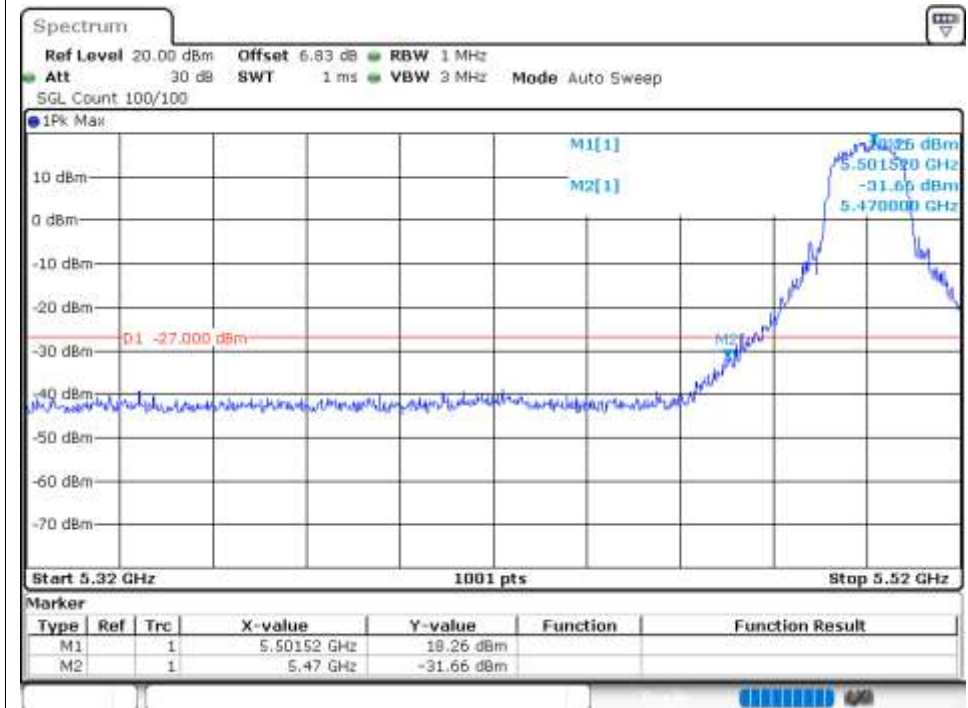
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	-31.65	-27	Pass
NVNT	a	5700	Ant1	-27.69	-27	Pass
NVNT	n20	5500	Ant1	-30.61	-27	Pass
NVNT	n20	5700	Ant1	-27.24	-27	Pass
NVNT	n40	5510	Ant1	-27.65	-27	Pass
NVNT	n40	5670	Ant1	-31.24	-27	Pass

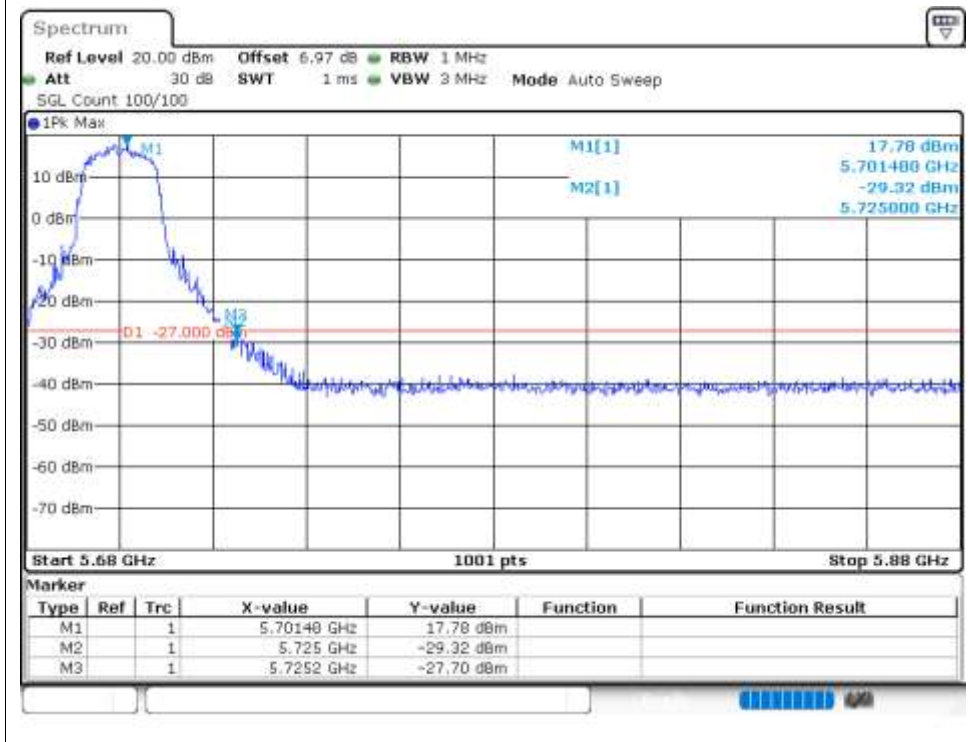
Note: This test has increased antenna gain .

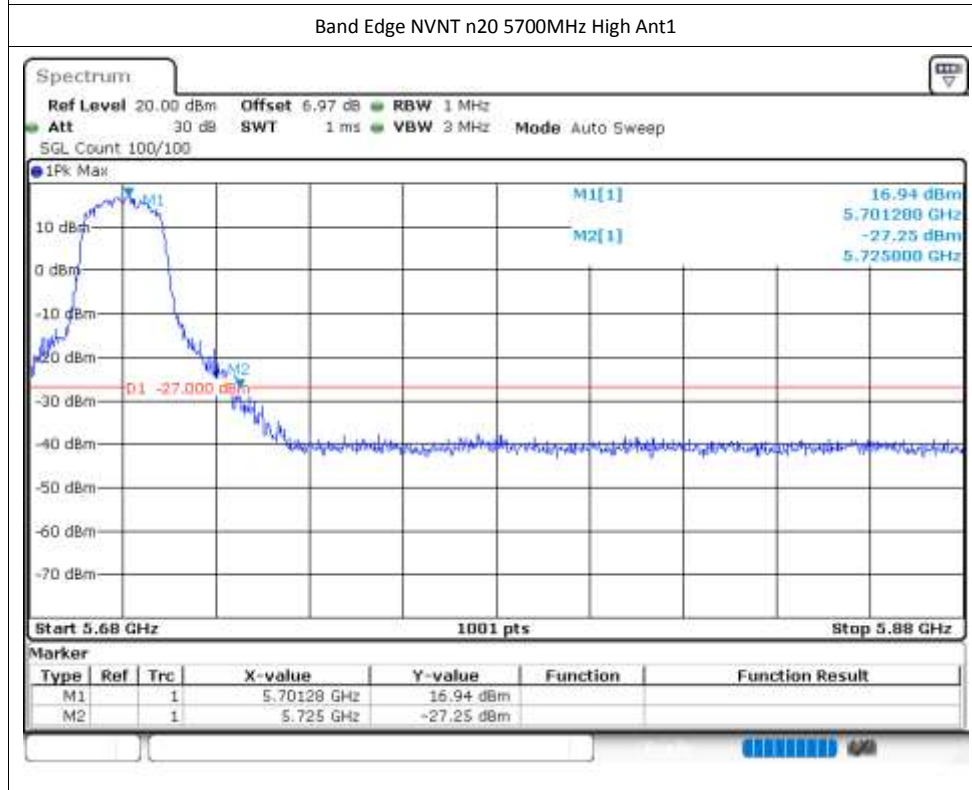
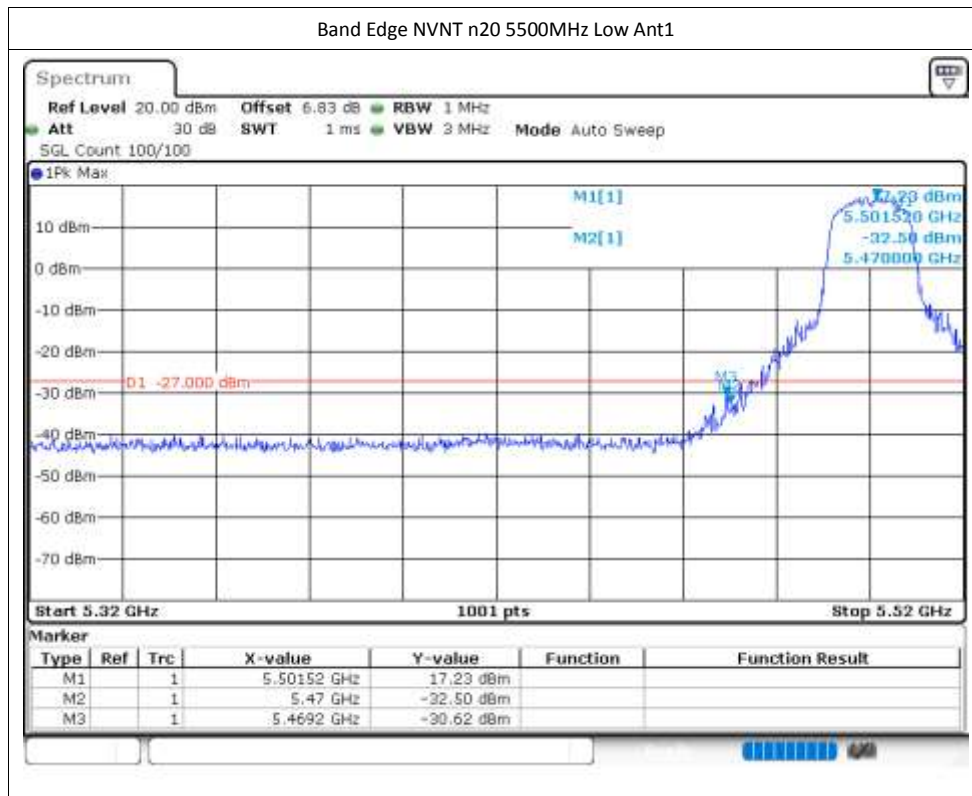
Test Graphs

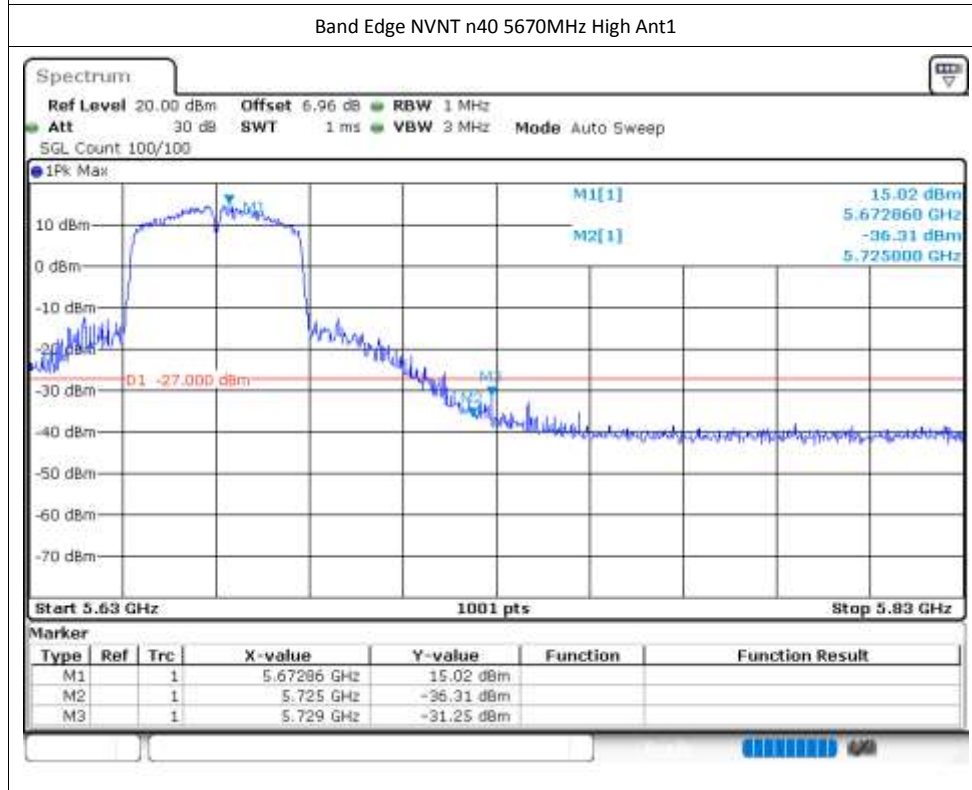
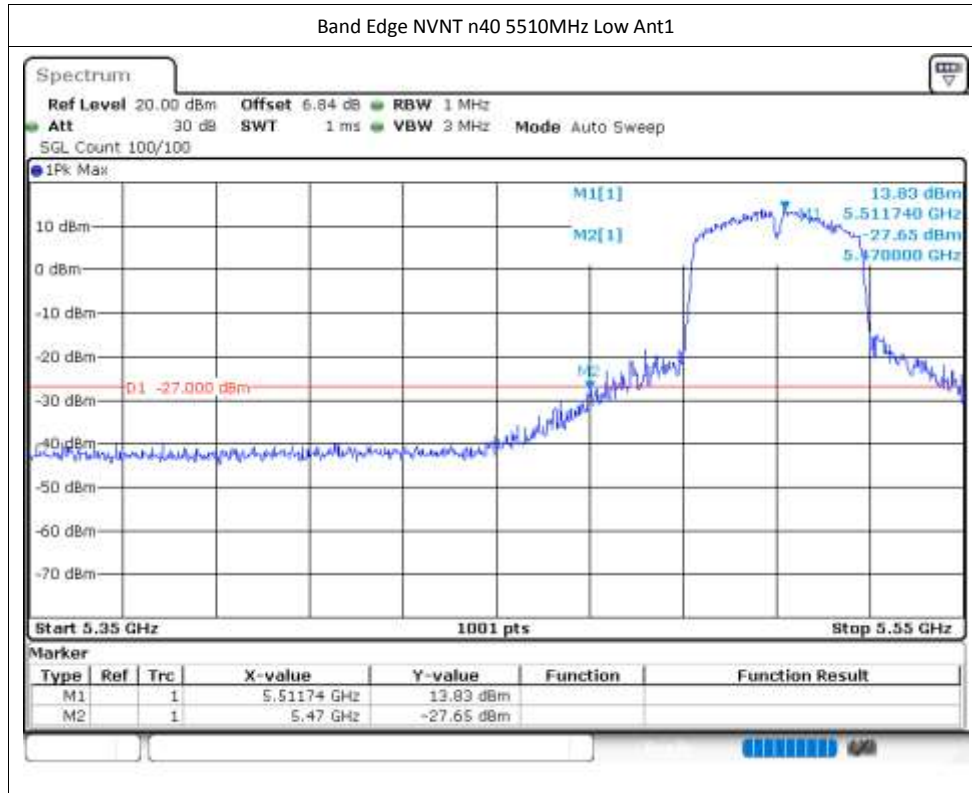
Band Edge NVNT a 5500MHz Low Ant1



Band Edge NVNT a 5700MHz High Ant1







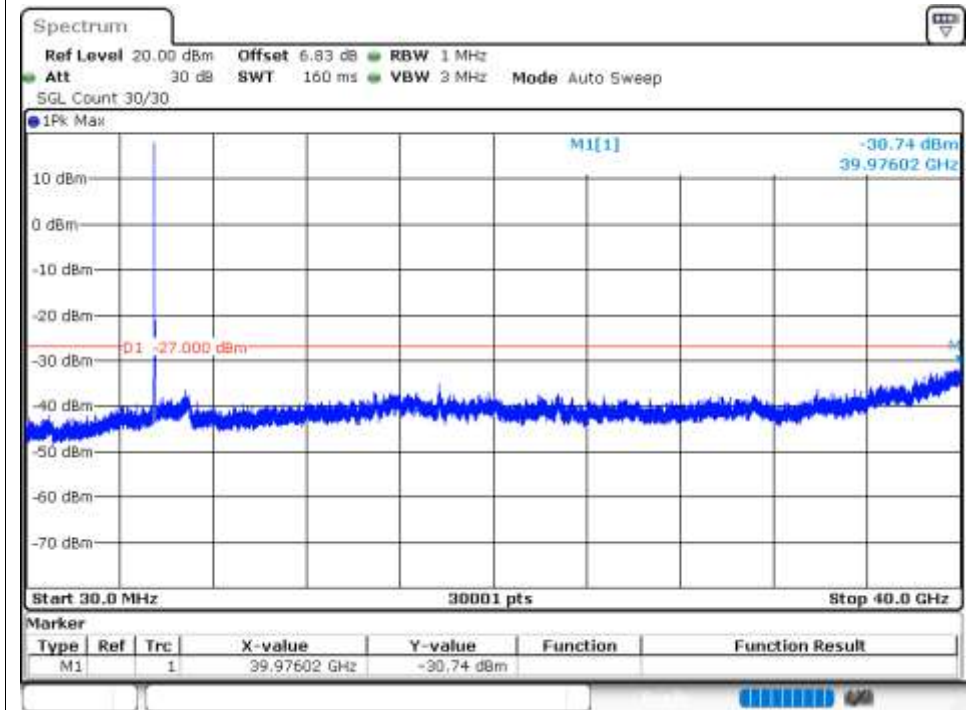
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	-30.74	-27	Pass
NVNT	a	5600	Ant1	-31.76	-27	Pass
NVNT	a	5700	Ant1	-31.9	-27	Pass
NVNT	n20	5500	Ant1	-31.66	-27	Pass
NVNT	n20	5600	Ant1	-31.53	-27	Pass
NVNT	n20	5700	Ant1	-31.79	-27	Pass
NVNT	n40	5510	Ant1	-31.4	-27	Pass
NVNT	n40	5590	Ant1	-31.38	-27	Pass
NVNT	n40	5670	Ant1	-30.96	-27	Pass

Note: This test has increased antenna gain .

Test Graphs

Tx. Spurious NVNT a 5500MHz Ant1 Emission



Tx. Spurious NVNT a 5600MHz Ant1 Emission

