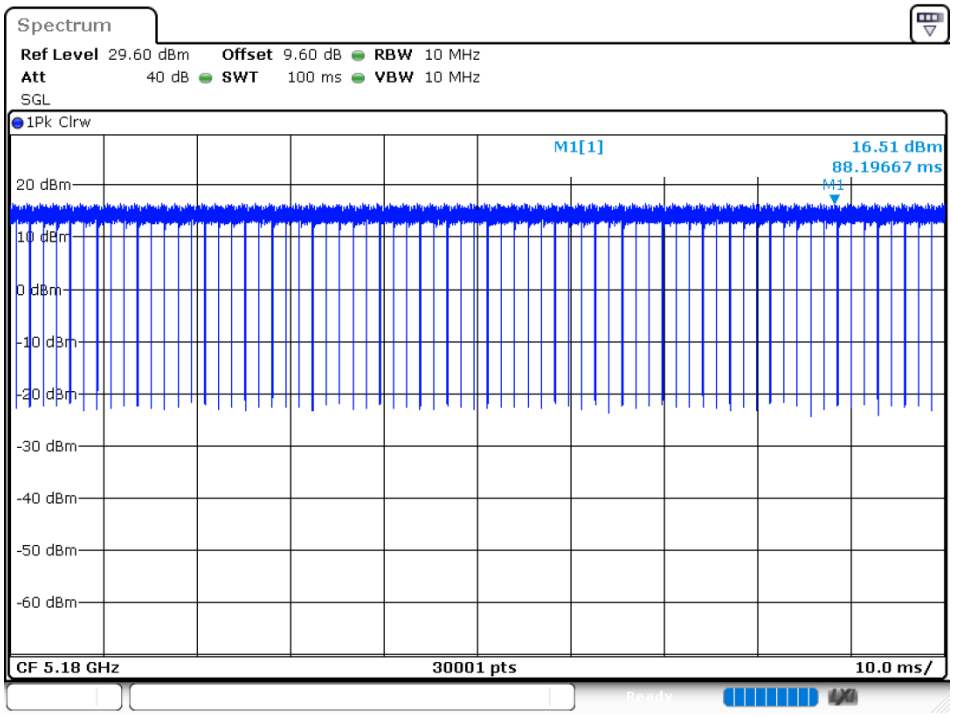
5.2G WIFI

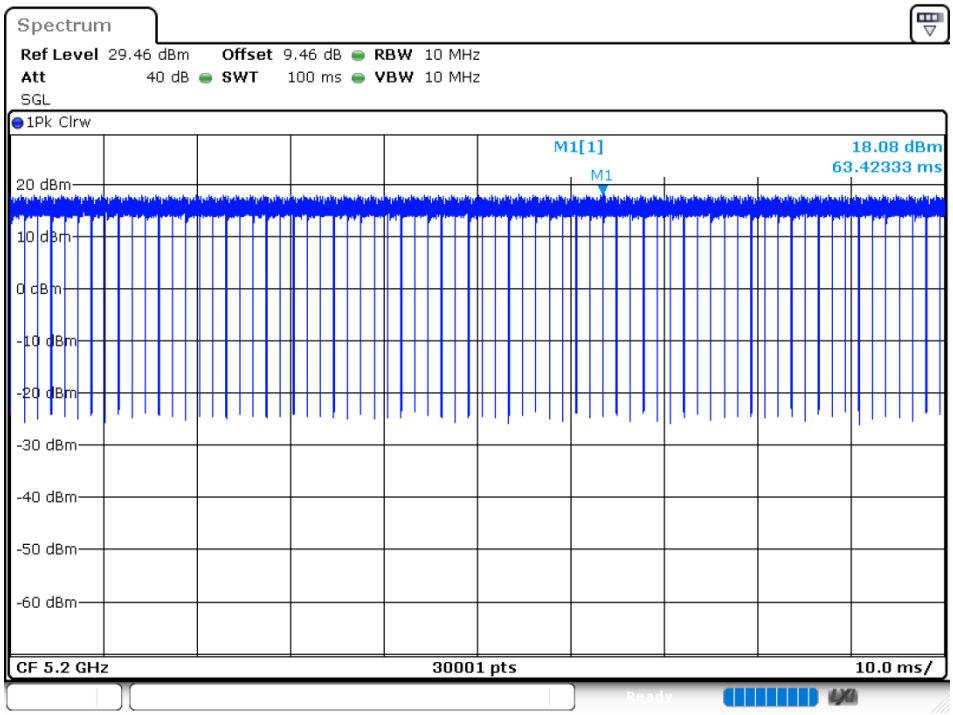
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5180	97.05	0.13
NVNT	802.11a	5200	97.02	0.13
NVNT	802.11a	5240	97.05	0.13
NVNT	802.11n(HT20)	5180	96.88	0.14
NVNT	802.11n(HT20)	5200	96.83	0.14
NVNT	802.11n(HT20)	5240	96.84	0.14

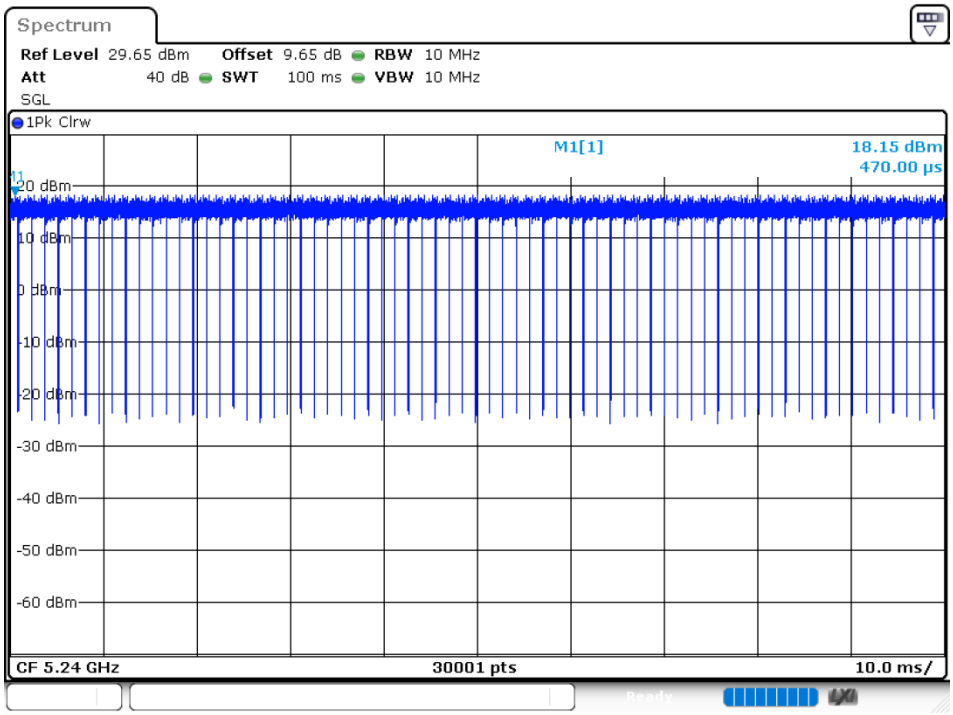
Duty Cycle NVNT 802.11a 5180MHz



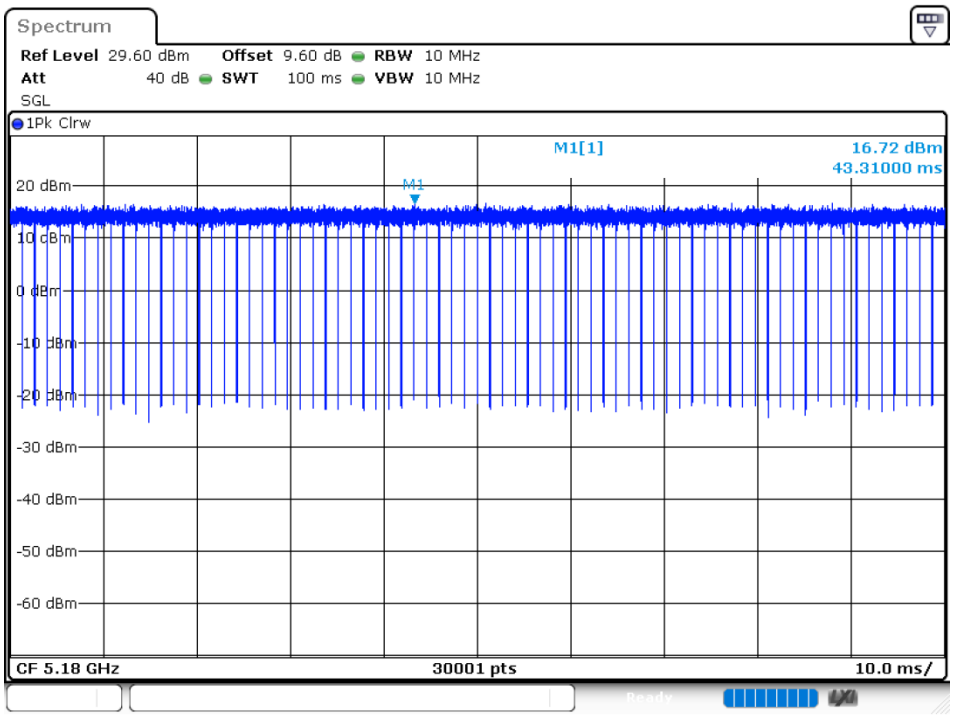
Duty Cycle NVNT 802.11a 5200MHz



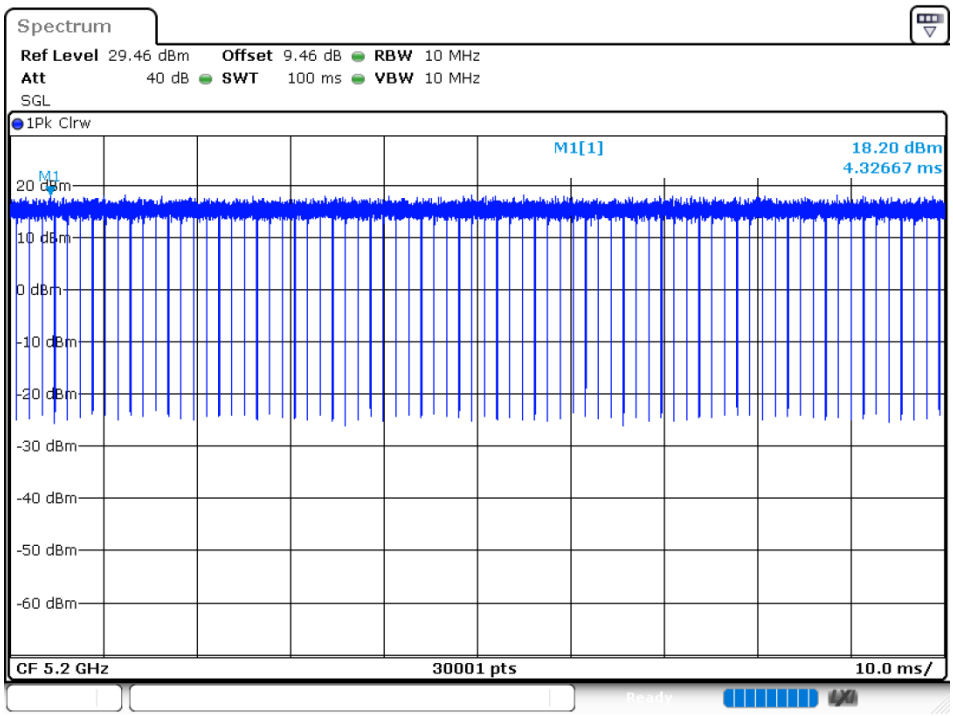
Duty Cycle NVNT 802.11a 5240MHz



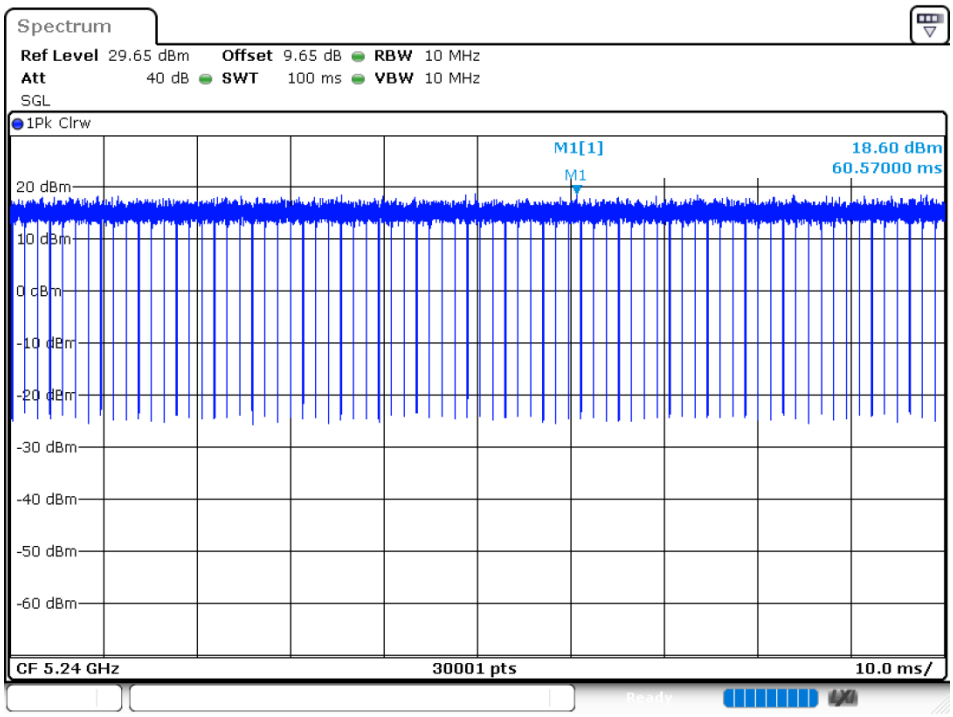
Duty Cycle NVNT 802.11n(HT20) 5180MHz



Duty Cycle NVNT 802.11n(HT20) 5200MHz



Duty Cycle NVNT 802.11n(HT20) 5240MHz


Spectrum
Ref Level 29.65 dBm Offset 9.65 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL
1Pk Clrw
M1[1] 18.60 dBm
60.57000 ms
M1
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.24 GHz
30001 pts
10.0 ms/

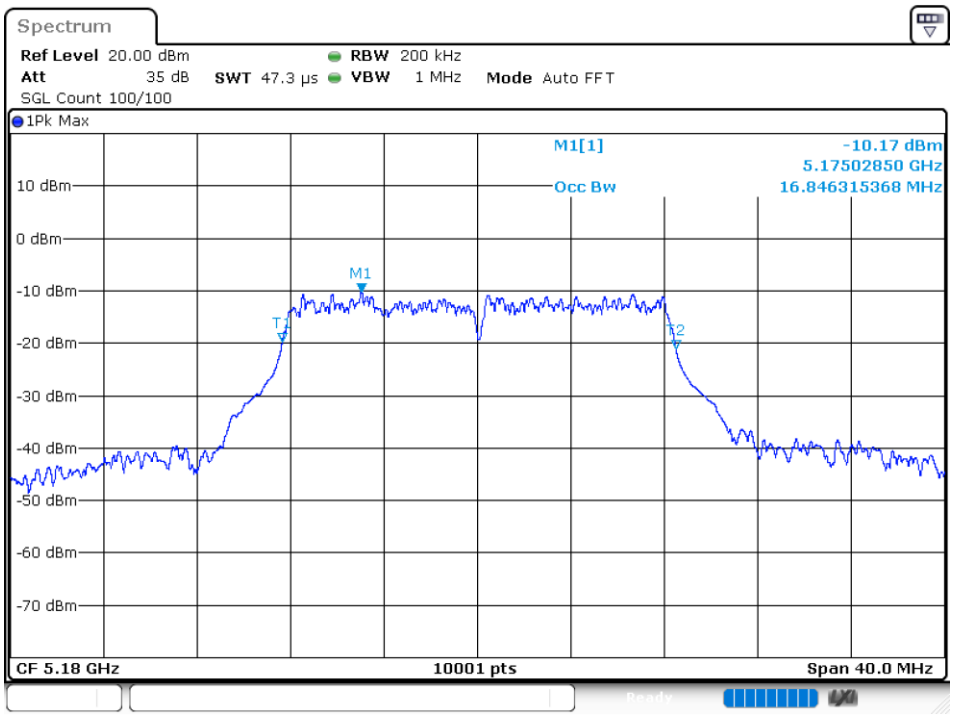
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	9.94	0.13	10.07	24	Pass
NVNT	802.11a	5200	Ant 1	10.72	0.13	10.85	24	Pass
NVNT	802.11a	5240	Ant 1	10.54	0.13	10.67	24	Pass
NVNT	802.11n(HT20)	5180	Ant 1	10.26	0.14	10.4	24	Pass
NVNT	802.11n(HT20)	5200	Ant 1	10.82	0.14	10.96	24	Pass
NVNT	802.11n(HT20)	5240	Ant 1	10.4	0.14	10.54	24	Pass

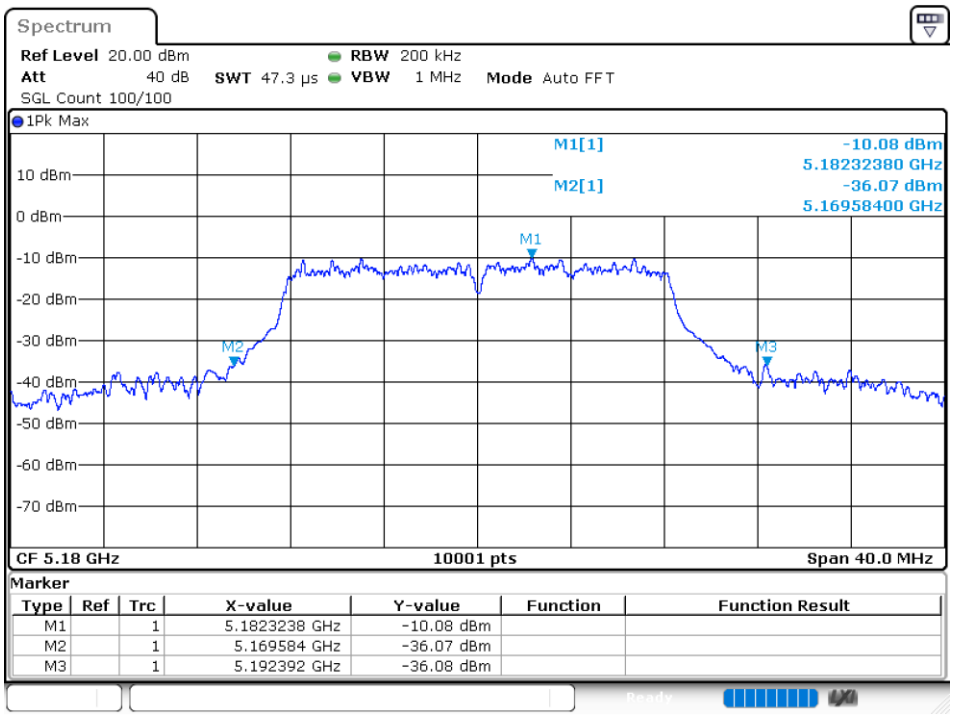
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5180	Ant 1	16.8463	22.808	Pass
NVNT	802.11a	5200	Ant 1	16.8063	21.368	Pass
NVNT	802.11a	5240	Ant 1	16.7783	20.928	Pass
NVNT	802.11n(HT20)	5180	Ant 1	17.9822	27.044	Pass
NVNT	802.11n(HT20)	5200	Ant 1	17.8262	24.104	Pass
NVNT	802.11n(HT20)	5240	Ant 1	17.8542	21.448	Pass

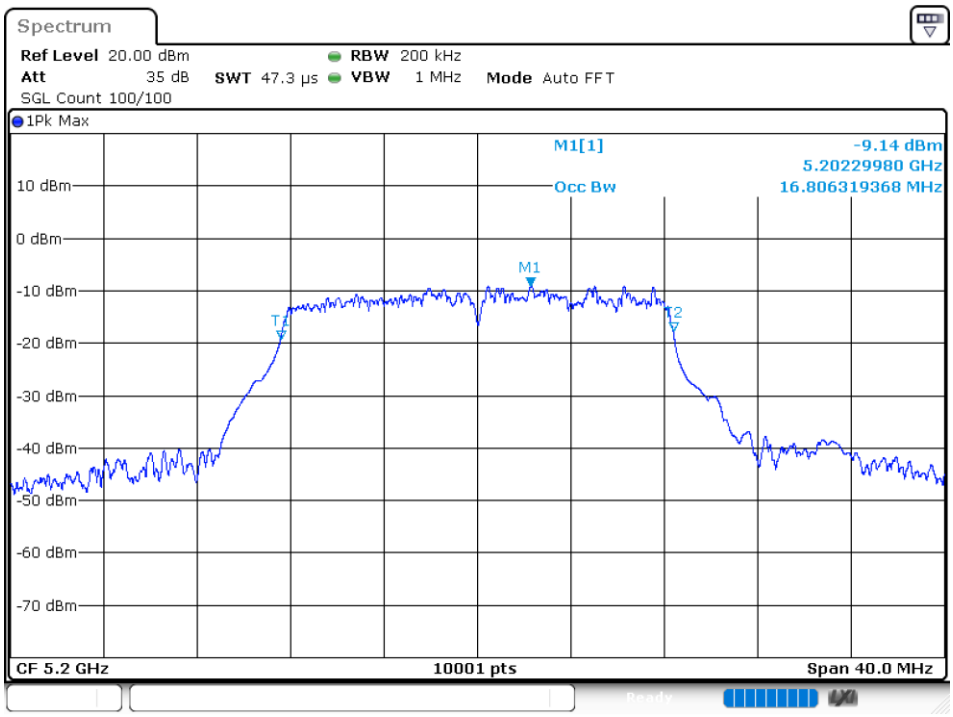
OBW NVNT 802.11a 5180MHz Ant1



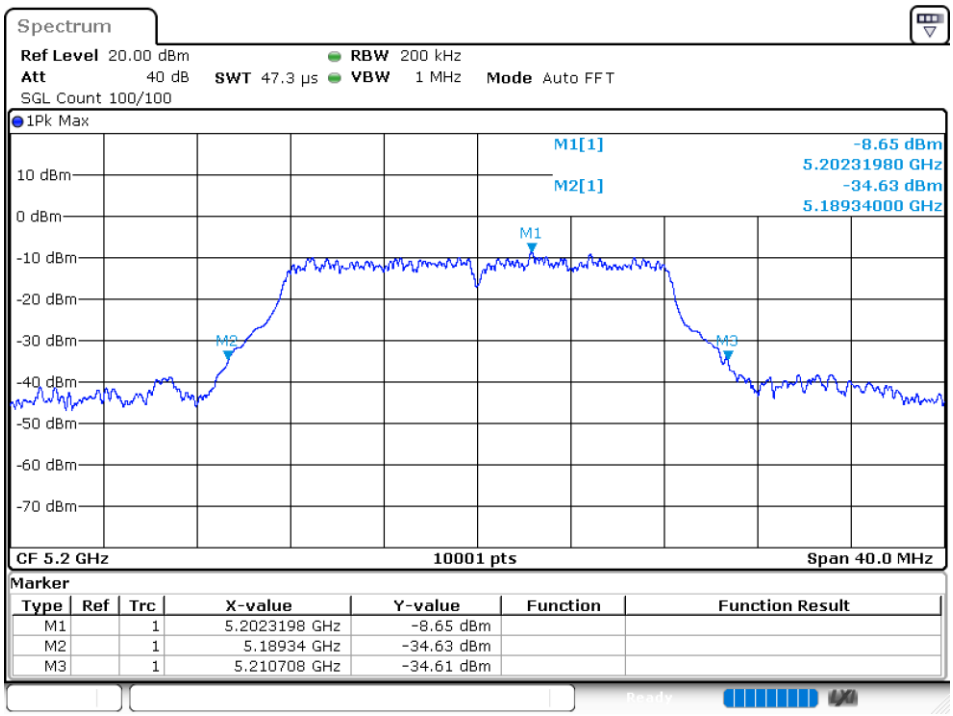
-26 dB BW NVNT 802.11a 5180MHz Ant1



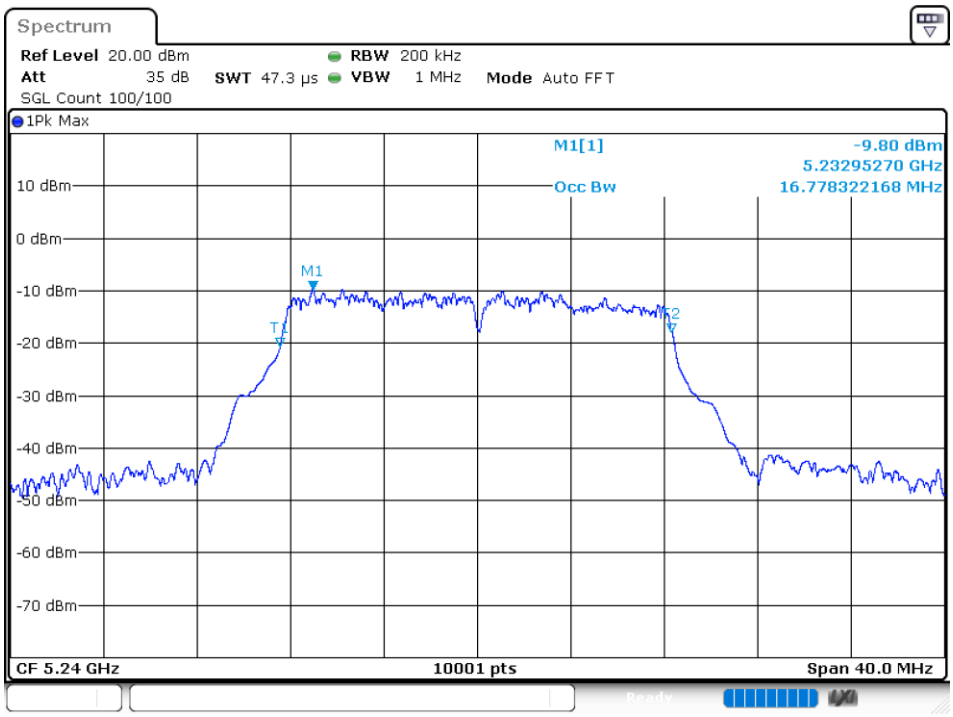
OBW NVNT 802.11a 5200MHz Ant1



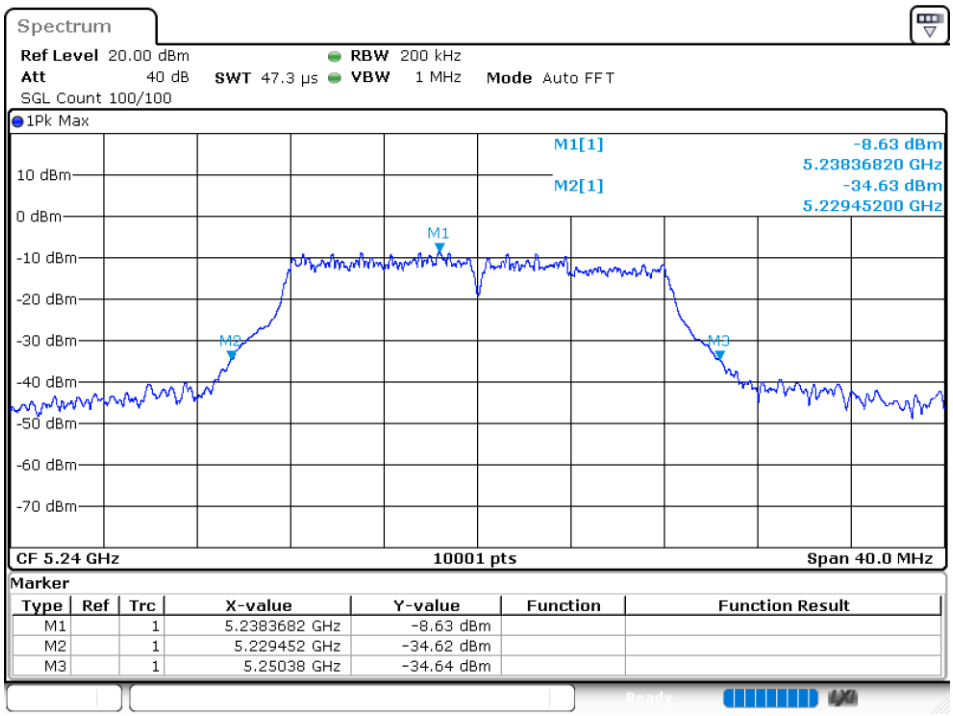
-26 dB BW NVNT 802.11a 5200MHz Ant1



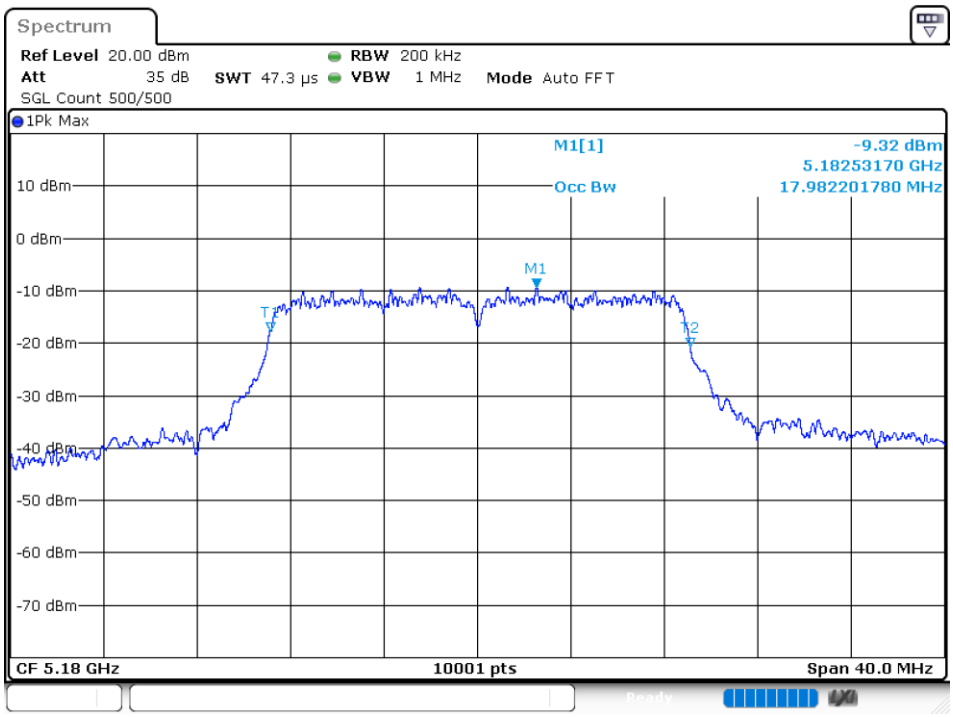
OBW NVNT 802.11a 5240MHz Ant1



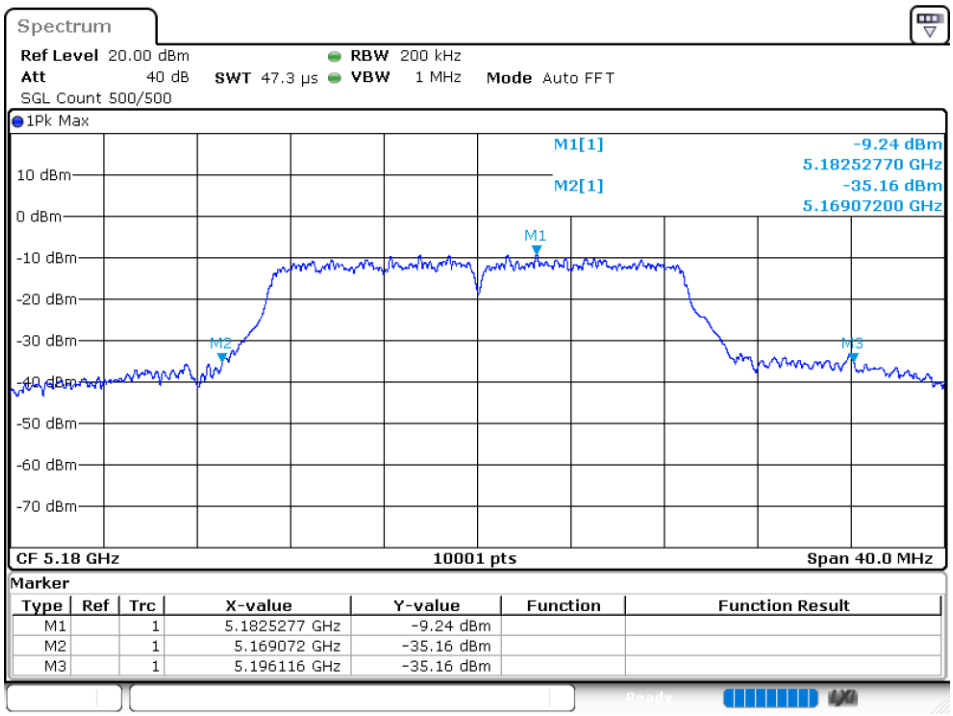
-26 dB BW NVNT 802.11a 5240MHz Ant1



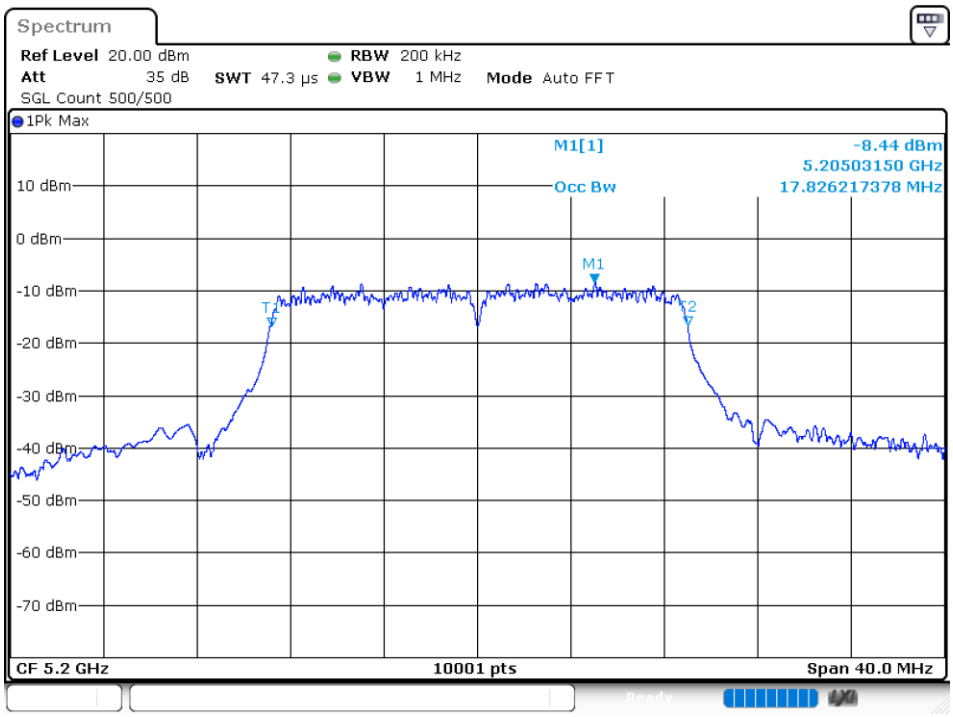
OBW NVNT 802.11n(HT20) 5180MHz Ant1



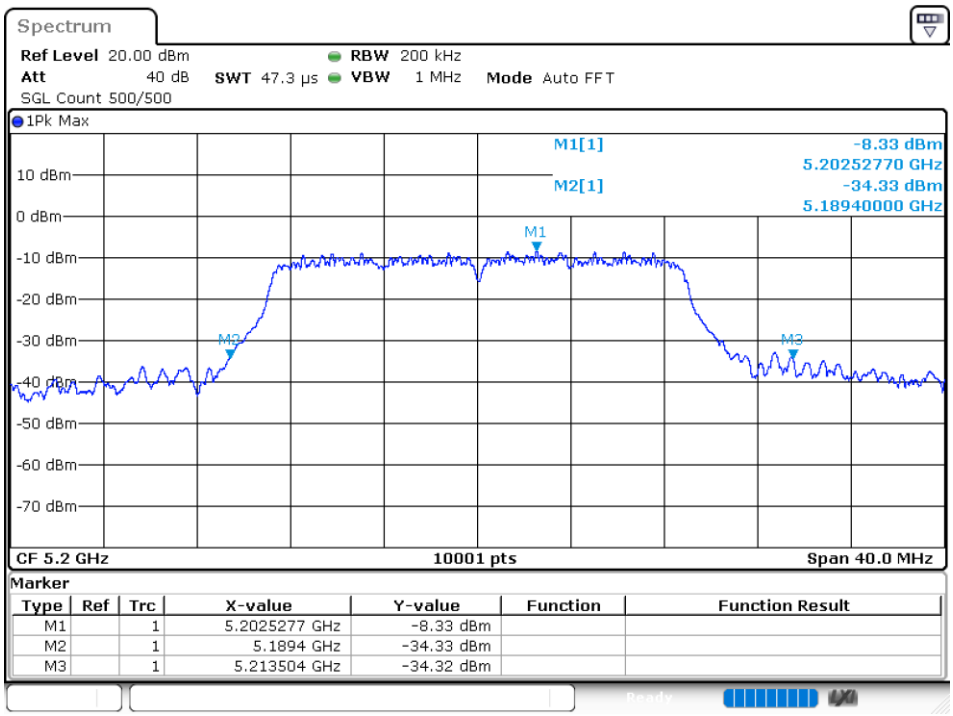
-26 dB BW NVNT 802.11n(HT20) 5180MHz Ant1



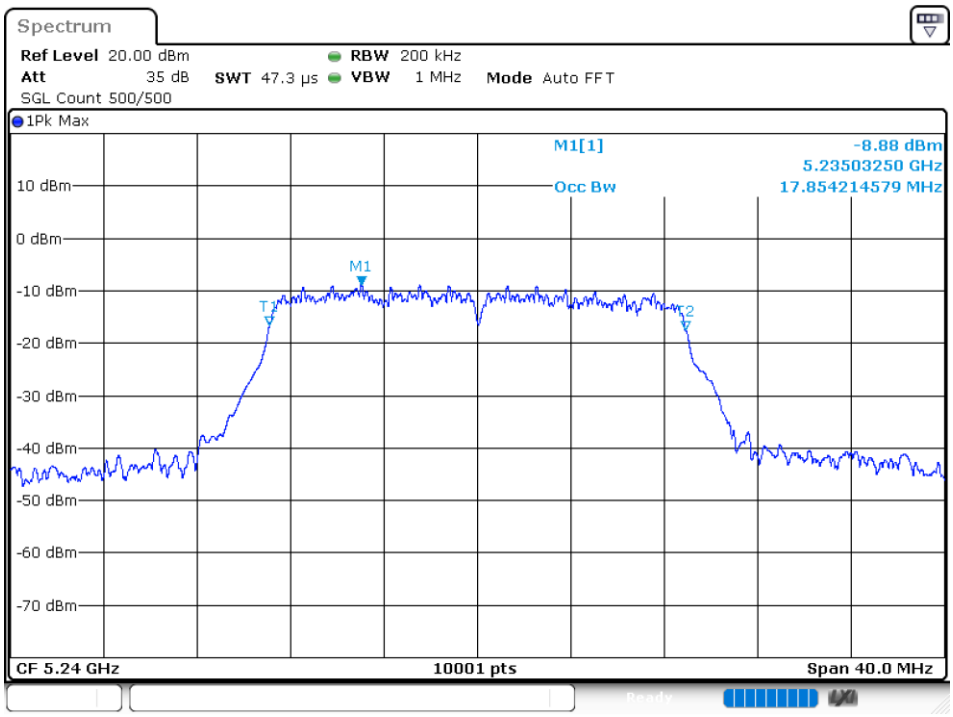
OBW NVNT 802.11n(HT20) 5200MHz Ant1



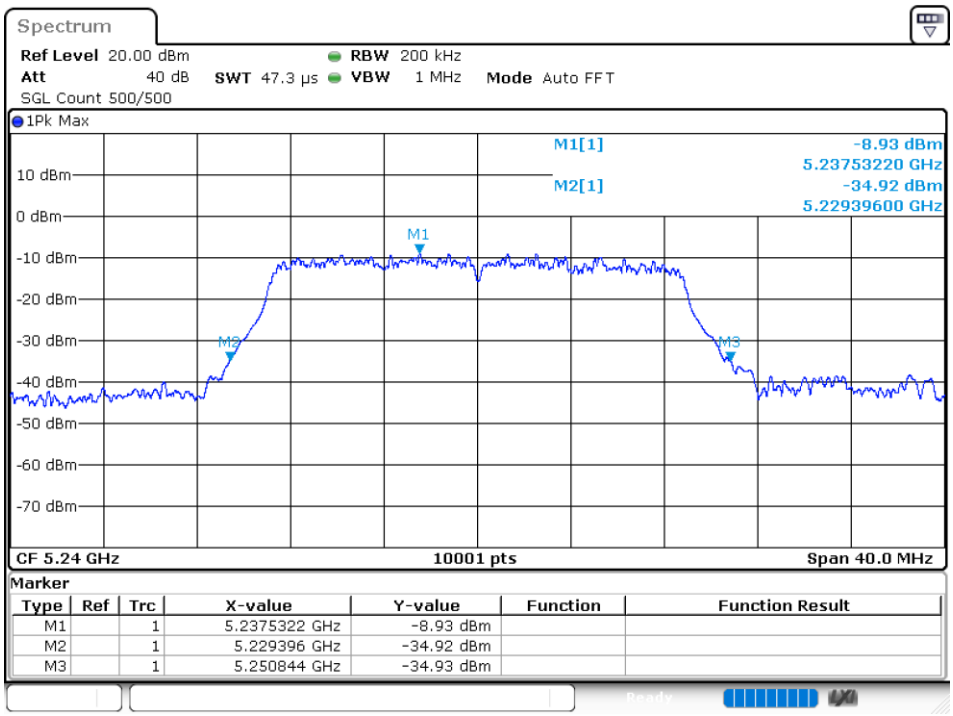
-26 dB BW NVNT 802.11n(HT20) 5200MHz Ant1



OBW NVNT 802.11n(HT20) 5240MHz Ant1



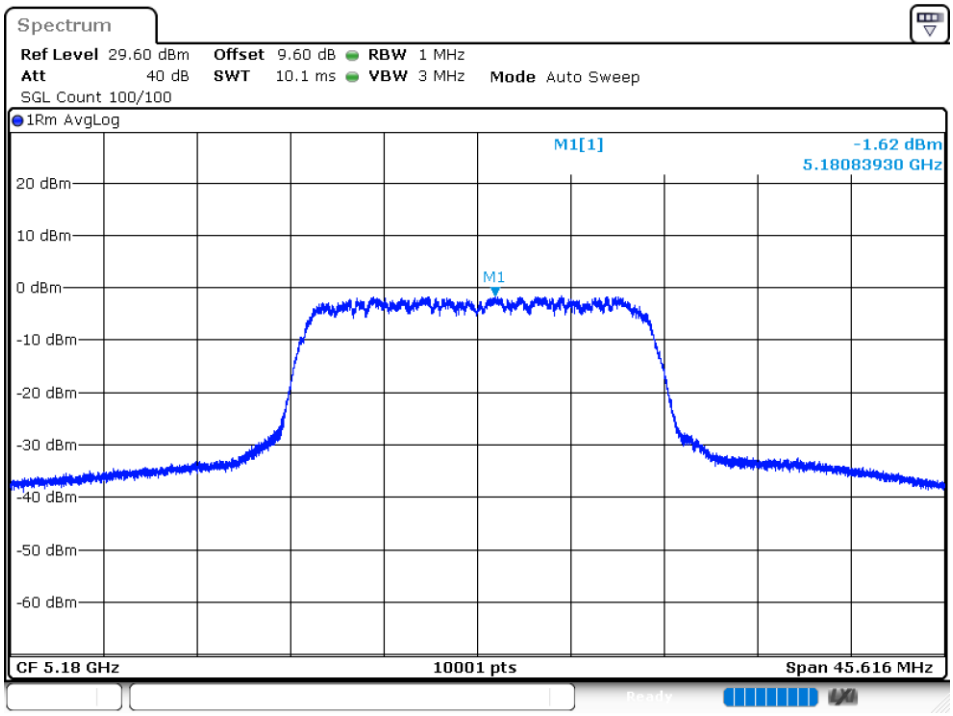
-26 dB BW NVNT 802.11n(HT20) 5240MHz Ant1



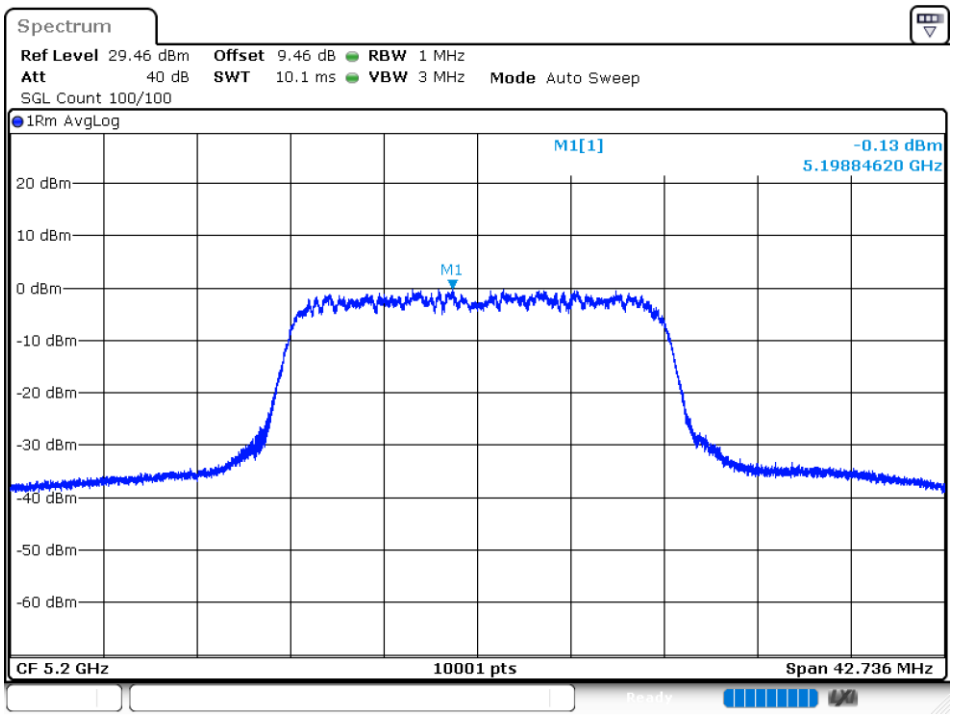
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	-1.616	0.13	-1.486	11	Pass
NVNT	802.11a	5200	Ant 1	-0.131	0.13	-0.001	11	Pass
NVNT	802.11a	5240	Ant 1	-0.406	0.13	-0.276	11	Pass
NVNT	802.11n(HT20)	5180	Ant 1	-2.134	0.14	-1.994	11	Pass
NVNT	802.11n(HT20)	5200	Ant 1	-1.689	0.14	-1.549	11	Pass
NVNT	802.11n(HT20)	5240	Ant 1	-2.149	0.14	-2.009	11	Pass

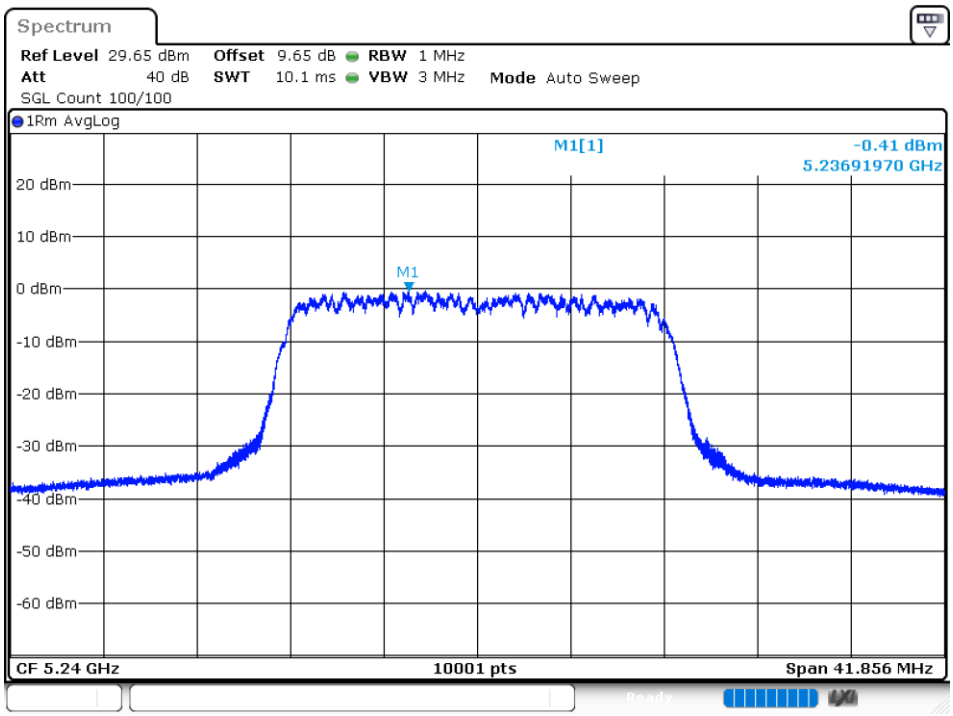
PSD NVNT 802.11a 5180MHz Ant1



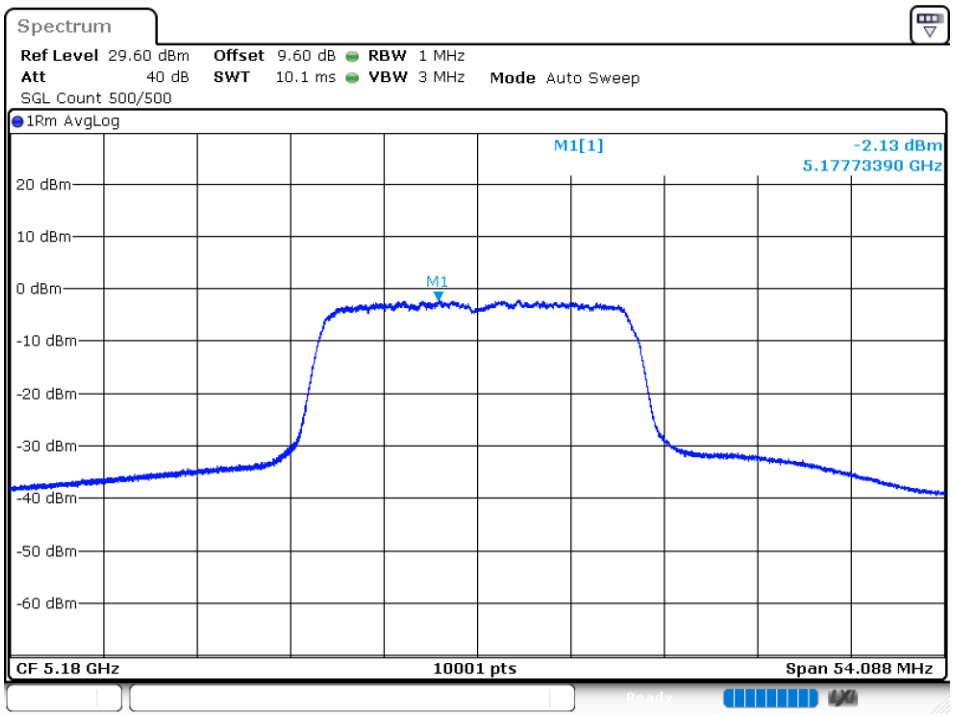
PSD NVNT 802.11a 5200MHz Ant1



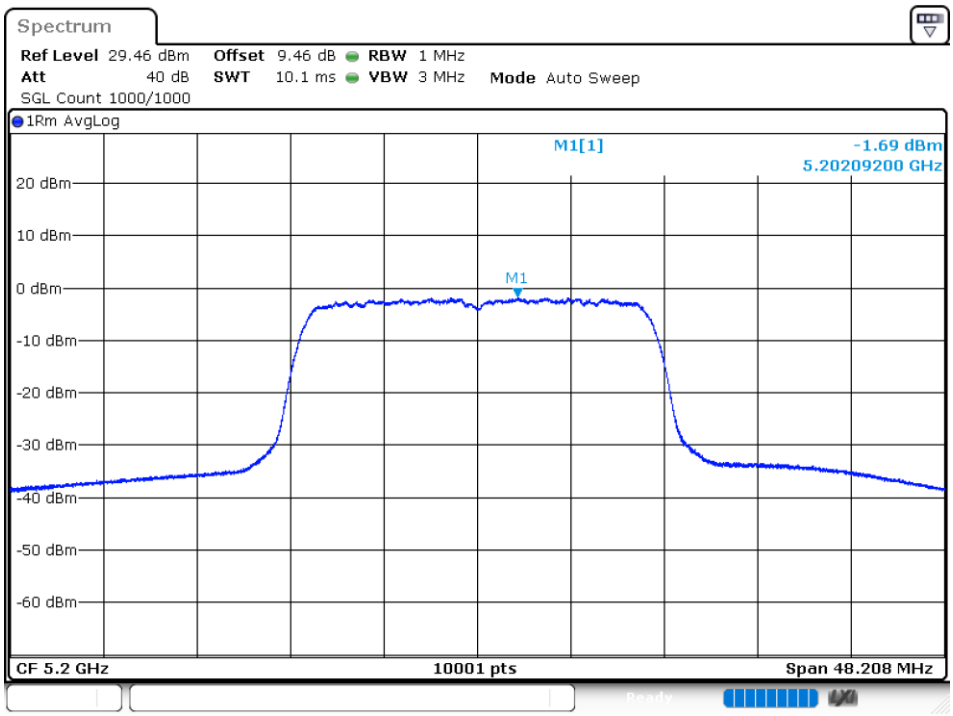
PSD NVNT 802.11a 5240MHz Ant1



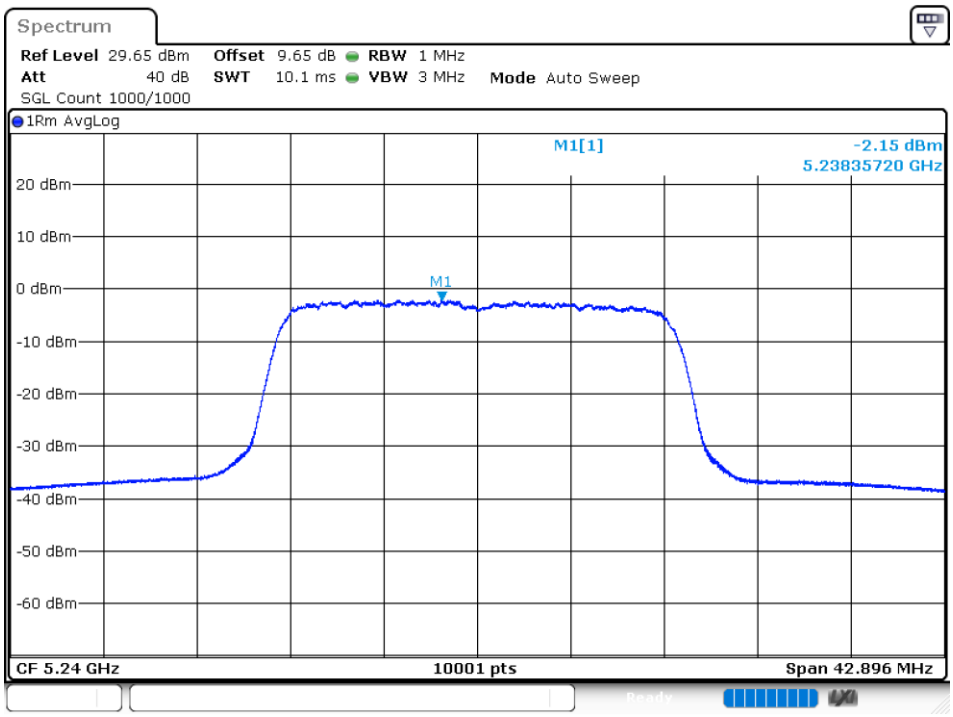
PSD NVNT 802.11n(HT20) 5180MHz Ant1



PSD NVNT 802.11n(HT20) 5200MHz Ant1



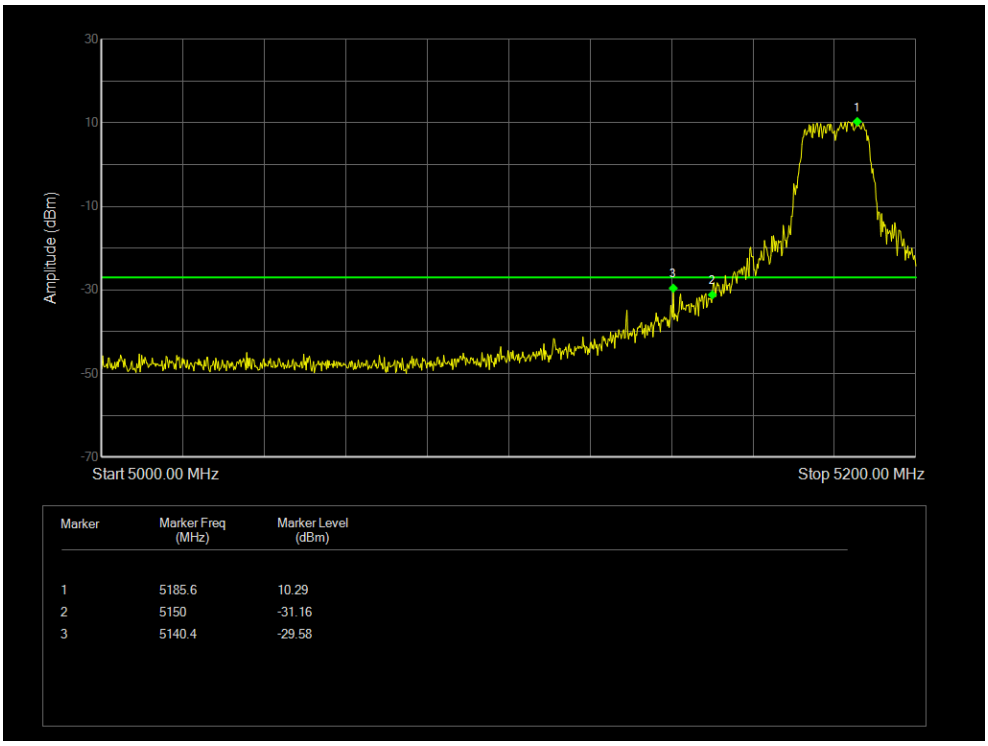
PSD NVNT 802.11n(HT20) 5240MHz Ant1


Spectrum
Ref Level 29.65 dBm Offset 9.65 dB RBW 1 MHz
Att 40 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 1000/1000
1Rm AvgLog
M1[1] -2.15 dBm
5.23835720 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
CF 5.24 GHz
10001 pts
Span 42.896 MHz

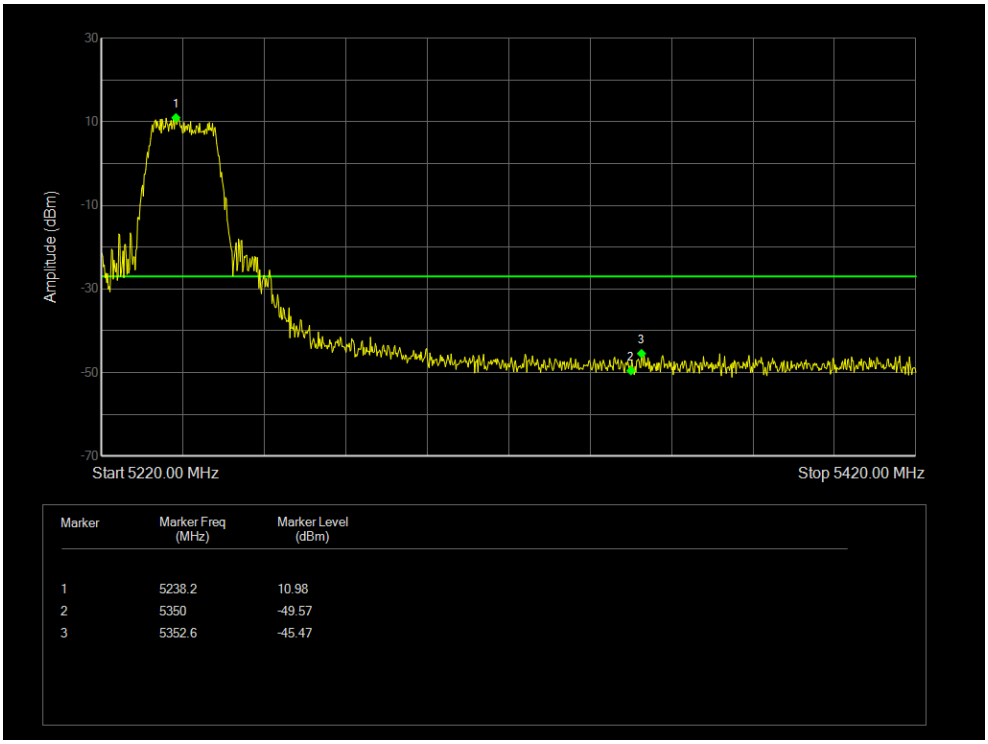
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	-29.58	-27	Pass
NVNT	802.11a	5240	Ant 1	-45.47	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 1	-28.39	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 1	-45.63	-27	Pass

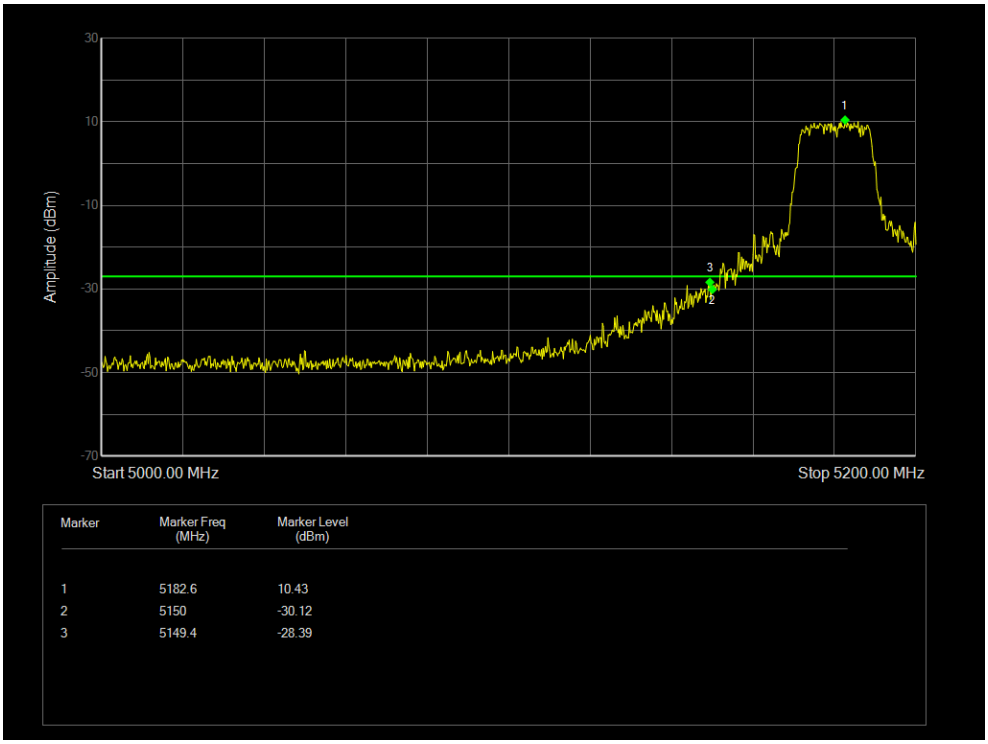
Band Edge NVNT 802.11a 5180MHz Low Ant1



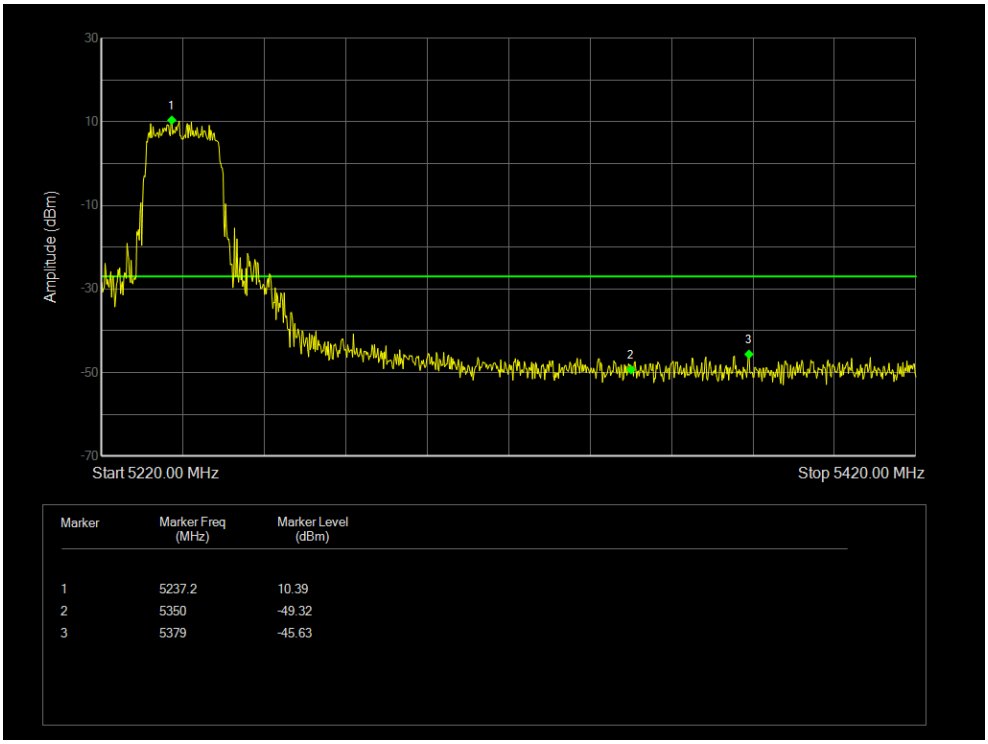
Band Edge NVNT 802.11a 5240MHz High Ant1



Band Edge NVNT 802.11n(HT20) 5180MHz Low Ant1



Band Edge NVNT 802.11n(HT20) 5240MHz High Ant1

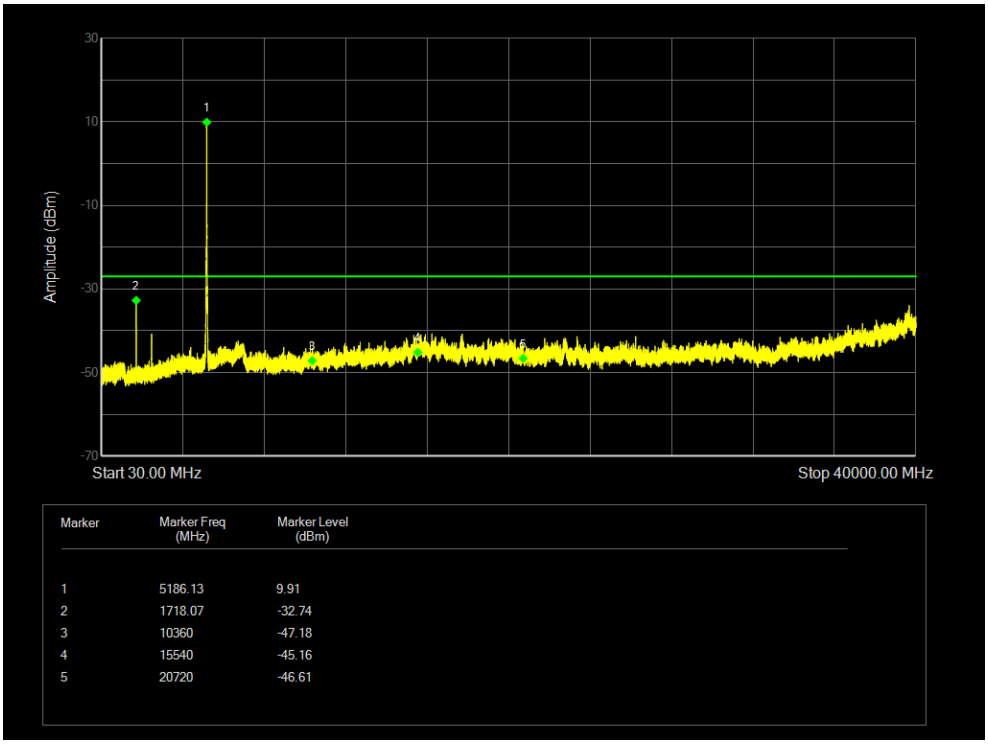


Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5237.2	10.39
2	5350	-49.32
3	5379	-45.63

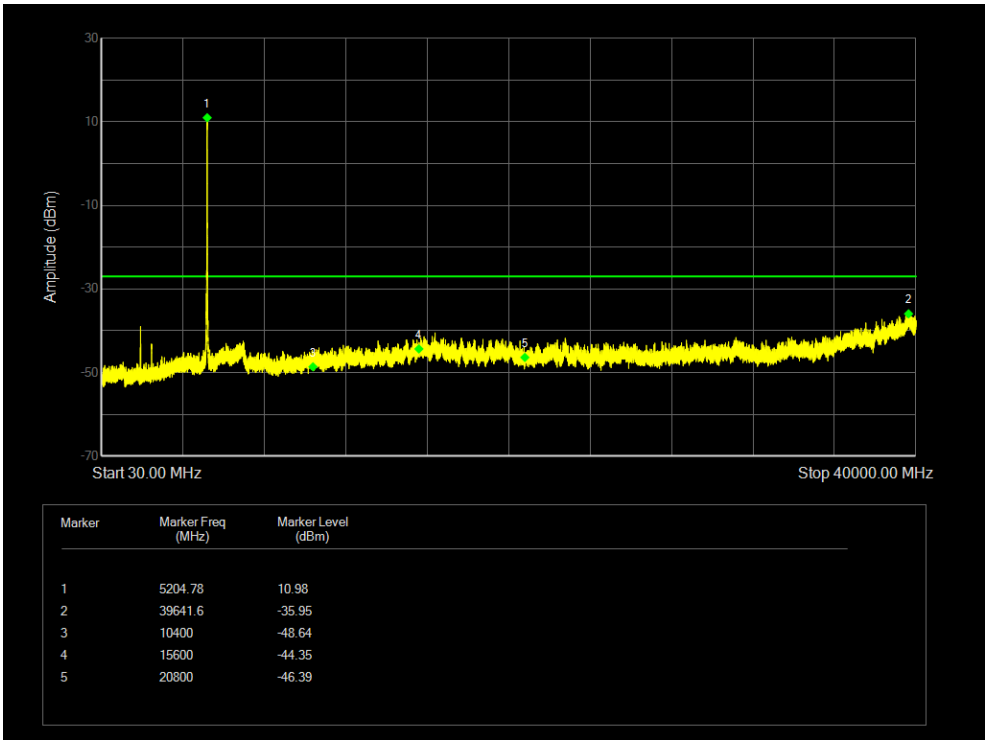
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11a	5180	Ant 1	-32.74	-27	Pass
NVNT	802.11a	5200	Ant 1	-35.95	-27	Pass
NVNT	802.11a	5240	Ant 1	-35.45	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 1	-34.36	-27	Pass
NVNT	802.11n(HT20)	5200	Ant 1	-35.2	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 1	-36.05	-27	Pass

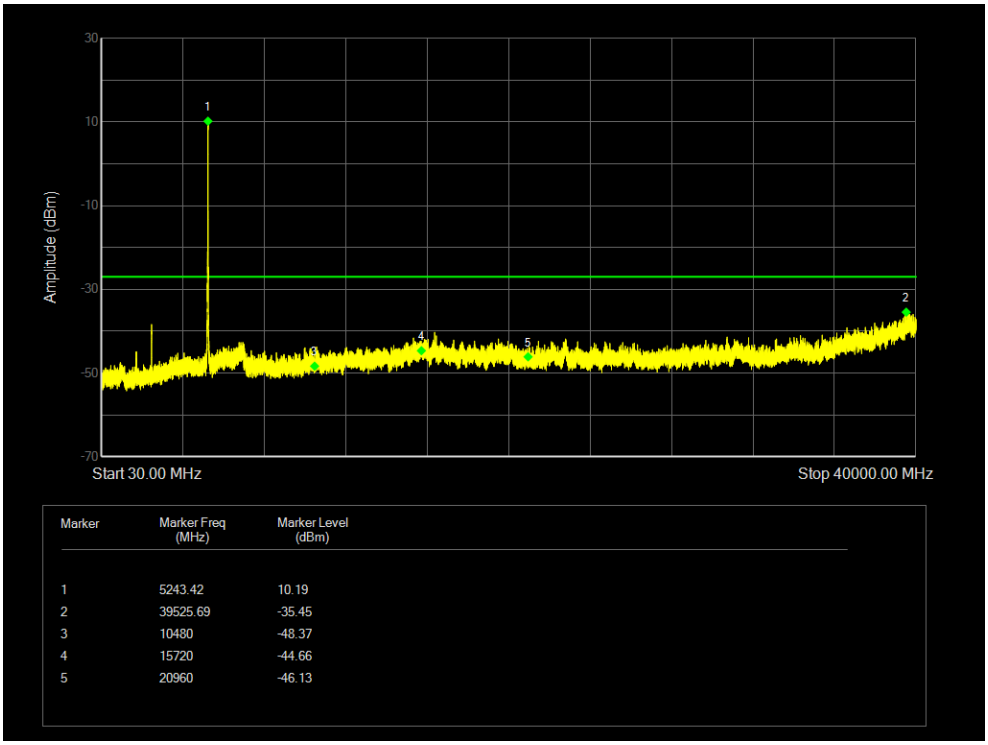
Tx. Spurious NVNT 802.11a 5180MHz Ant1 Emission



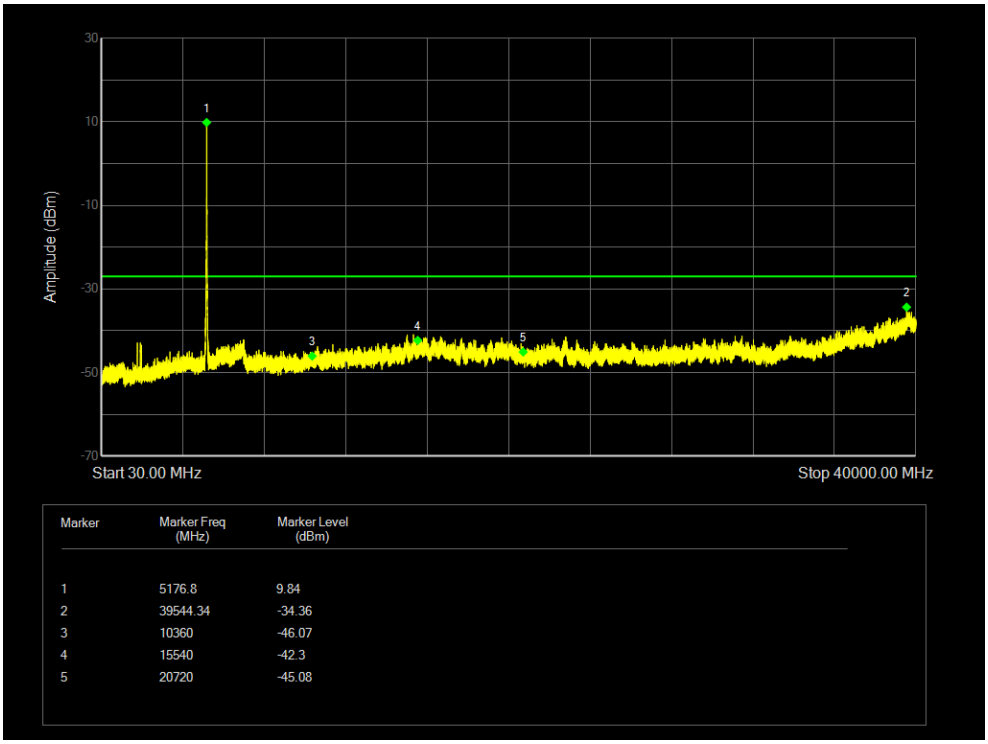
Tx. Spurious NVNT 802.11a 5200MHz Ant1 Emission



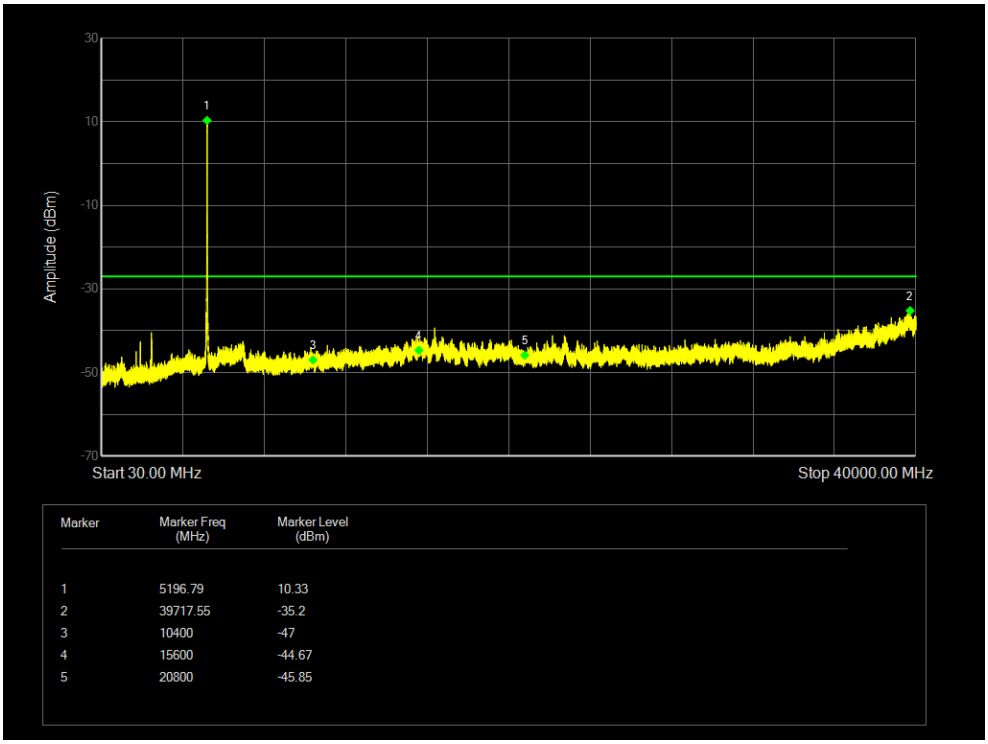
Tx. Spurious NVNT 802.11a 5240MHz Ant1 Emission



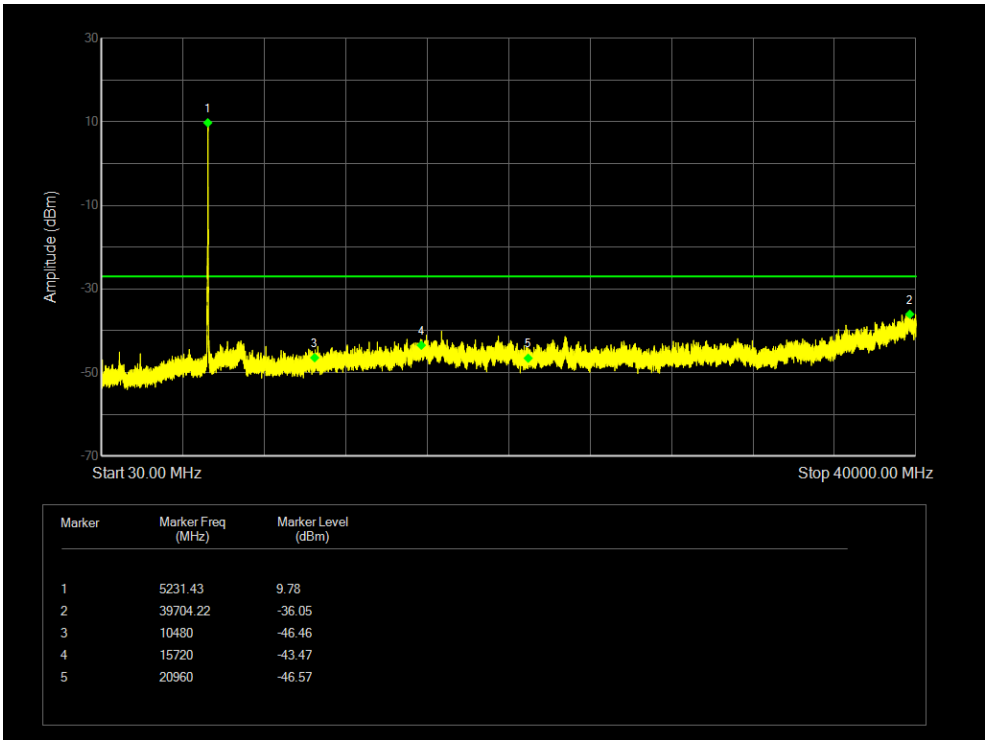
Tx. Spurious NVNT 802.11n(HT20) 5180MHz Ant1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5200MHz Ant1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5240MHz Ant1 Emission



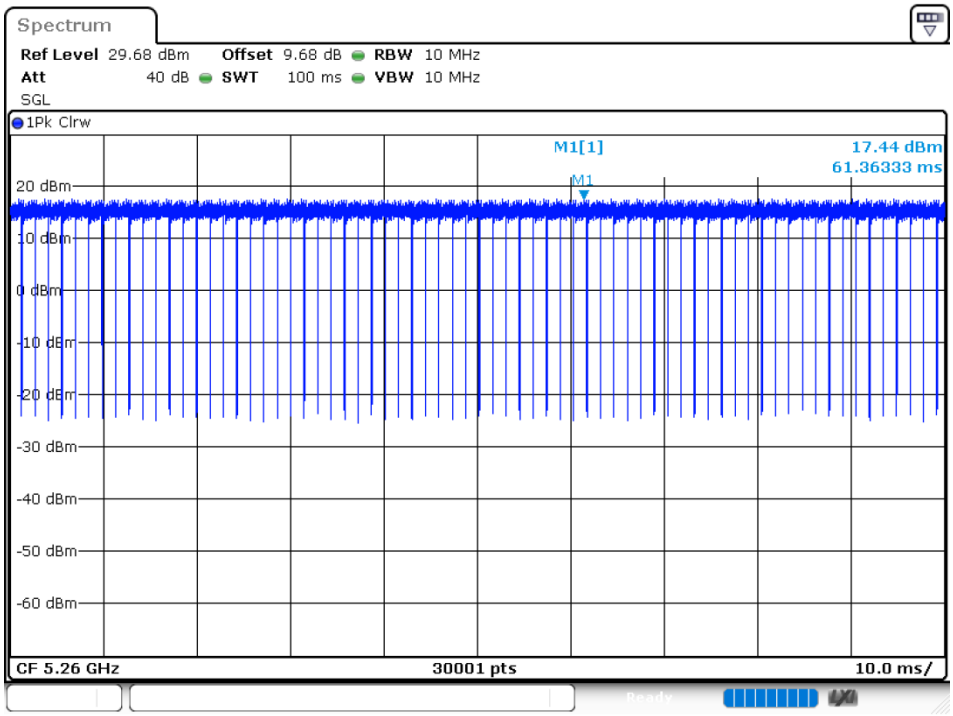
Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5231.43	9.78
2	39704.22	-36.05
3	10480	-46.46
4	15720	-43.47
5	20960	-46.57

5.3G WIFI

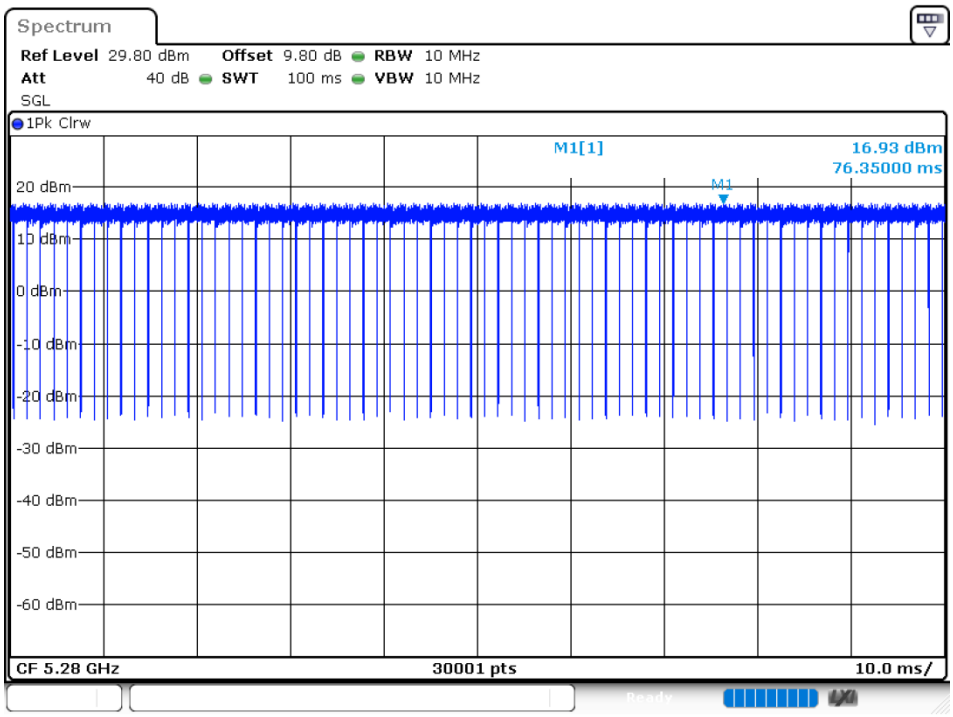
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5260	97.01	0.13
NVNT	802.11a	5280	97.01	0.13
NVNT	802.11a	5320	96.98	0.13
NVNT	802.11n(HT20)	5260	96.84	0.14
NVNT	802.11n(HT20)	5280	96.83	0.14
NVNT	802.11n(HT20)	5320	96.88	0.14

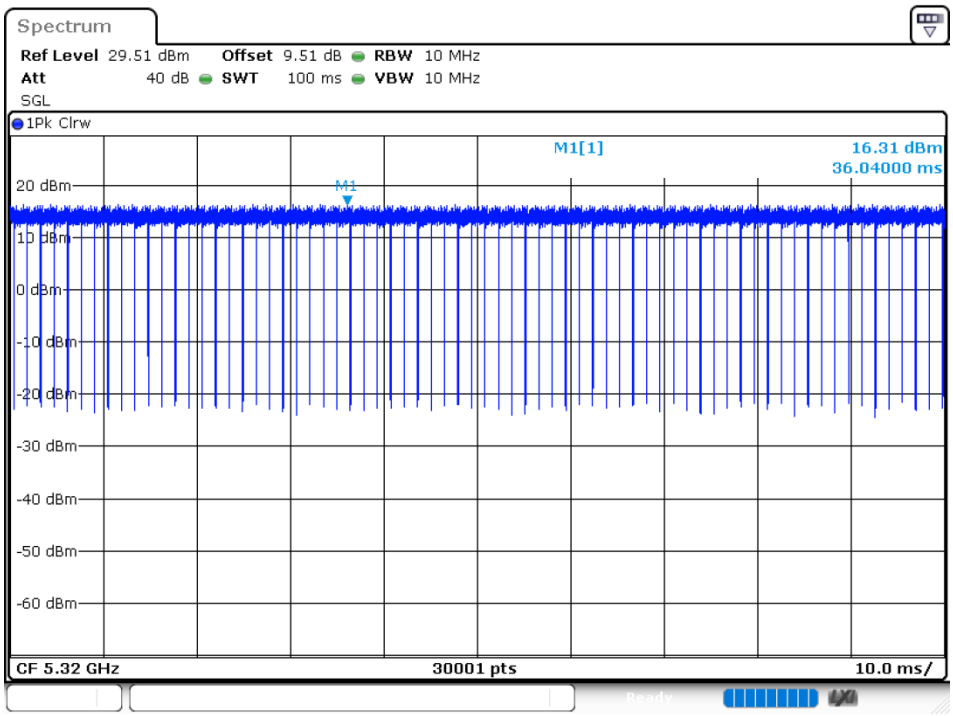
Duty Cycle NVNT 802.11a 5260MHz



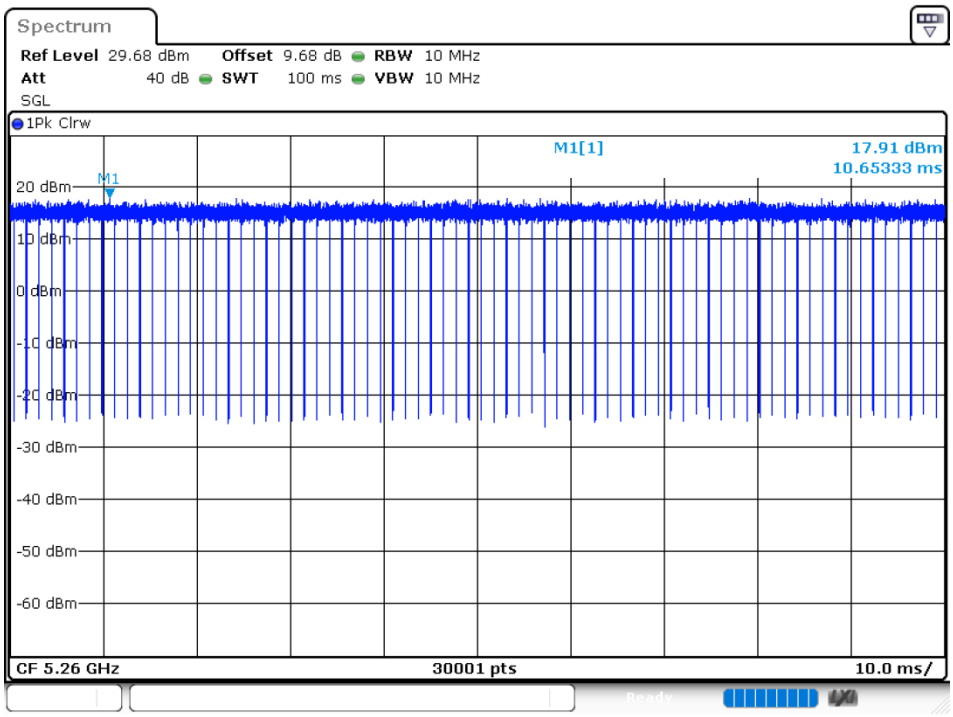
Duty Cycle NVNT 802.11a 5280MHz



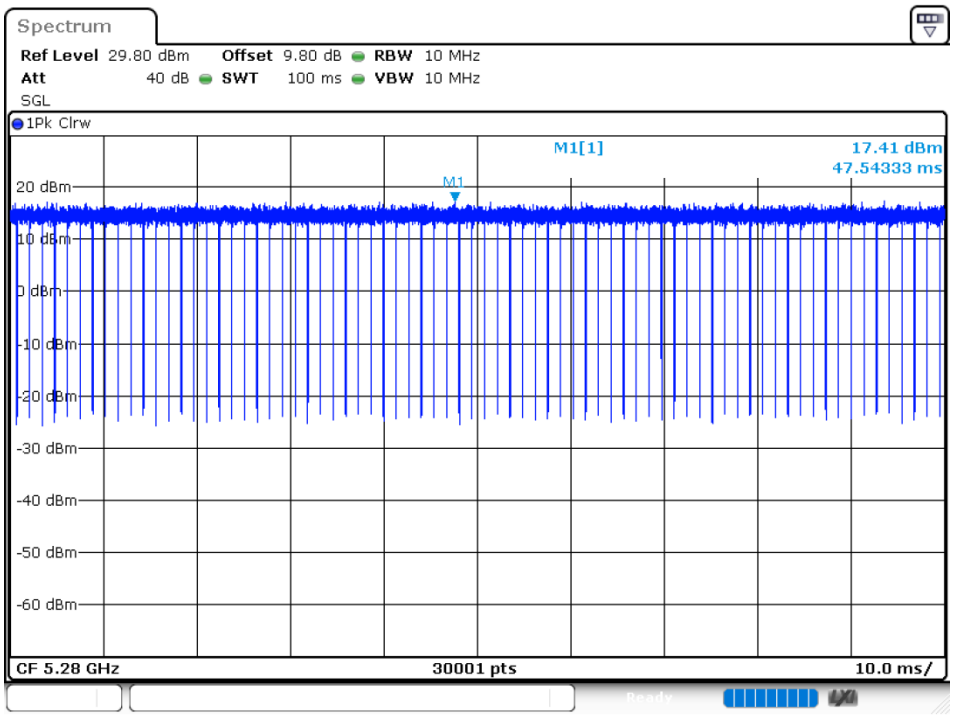
Duty Cycle NVNT 802.11a 5320MHz



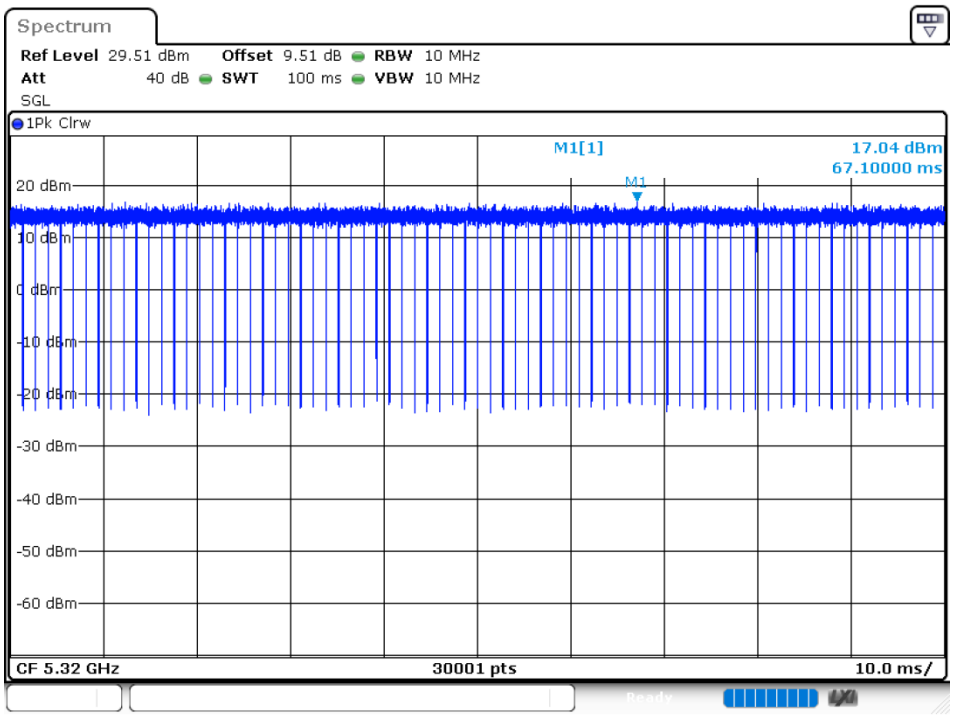
Duty Cycle NVNT 802.11n(HT20) 5260MHz



Duty Cycle NVNT 802.11n(HT20) 5280MHz



Duty Cycle NVNT 802.11n(HT20) 5320MHz


Spectrum
Ref Level 29.51 dBm Offset 9.51 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL
1Pk Clrw
M1[1] 17.04 dBm
67.10000 ms
M1
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.32 GHz
30001 pts
10.0 ms/

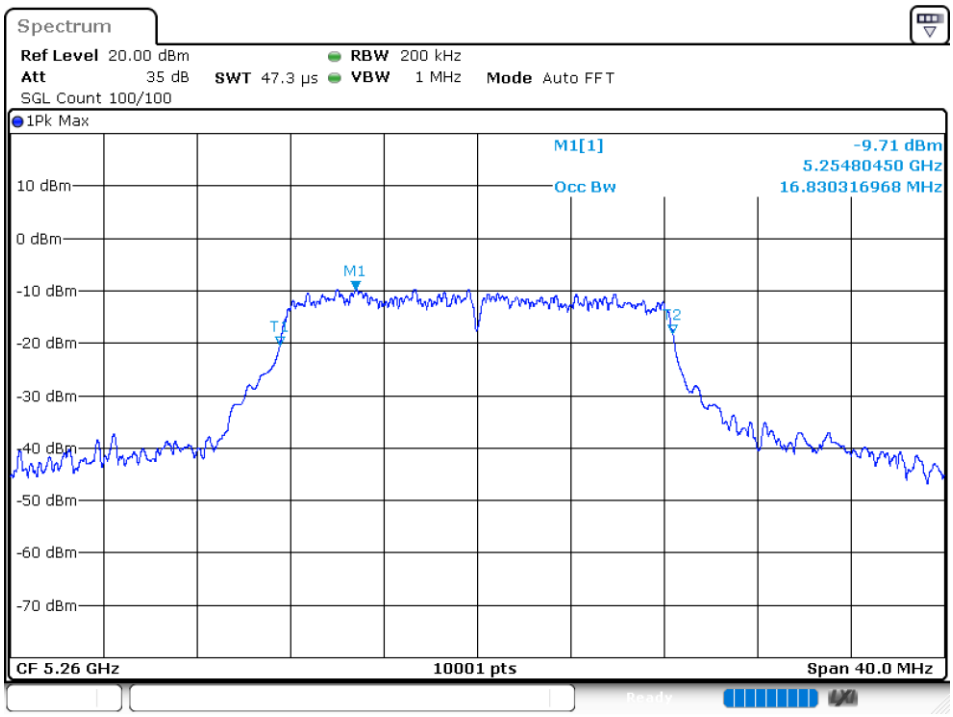
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	10.45	0.13	10.58	24	Pass
NVNT	802.11a	5280	Ant 1	10.17	0.13	10.3	24	Pass
NVNT	802.11a	5320	Ant 1	10.37	0.13	10.5	24	Pass
NVNT	802.11n(HT20)	5260	Ant 1	10.49	0.14	10.63	24	Pass
NVNT	802.11n(HT20)	5280	Ant 1	10.32	0.14	10.46	24	Pass
NVNT	802.11n(HT20)	5320	Ant 1	10.56	0.14	10.7	24	Pass

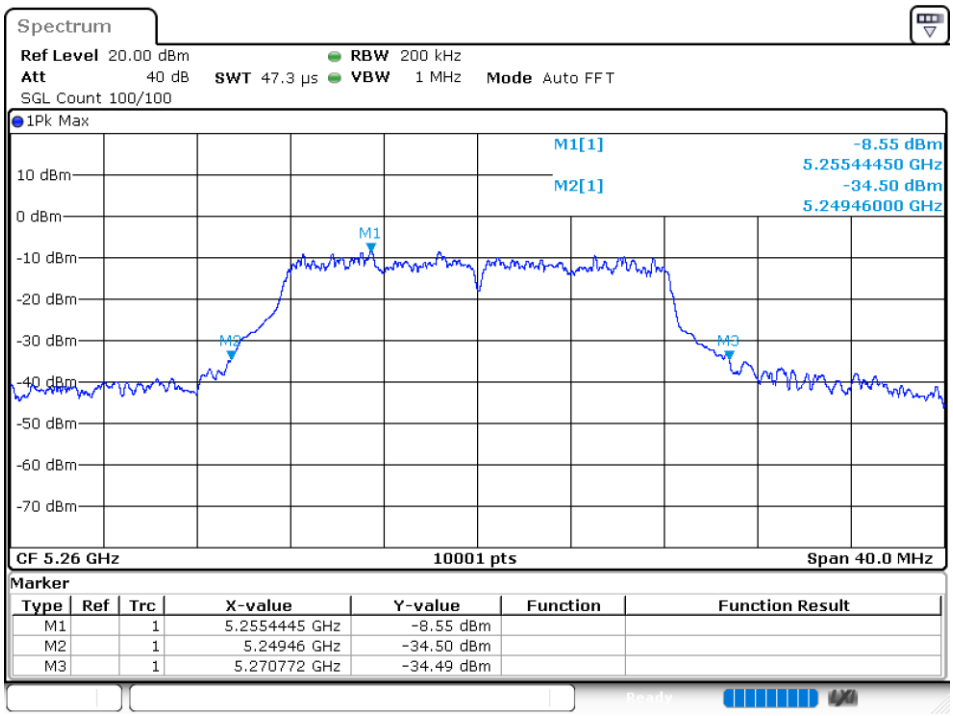
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5260	Ant 1	16.8303	21.312	Pass
NVNT	802.11a	5280	Ant 1	16.6623	21.956	Pass
NVNT	802.11a	5320	Ant 1	16.8983	22.548	Pass
NVNT	802.11n(HT20)	5260	Ant 1	18.0022	27.424	Pass
NVNT	802.11n(HT20)	5280	Ant 1	18.0582	26.712	Pass
NVNT	802.11n(HT20)	5320	Ant 1	17.9662	26.028	Pass

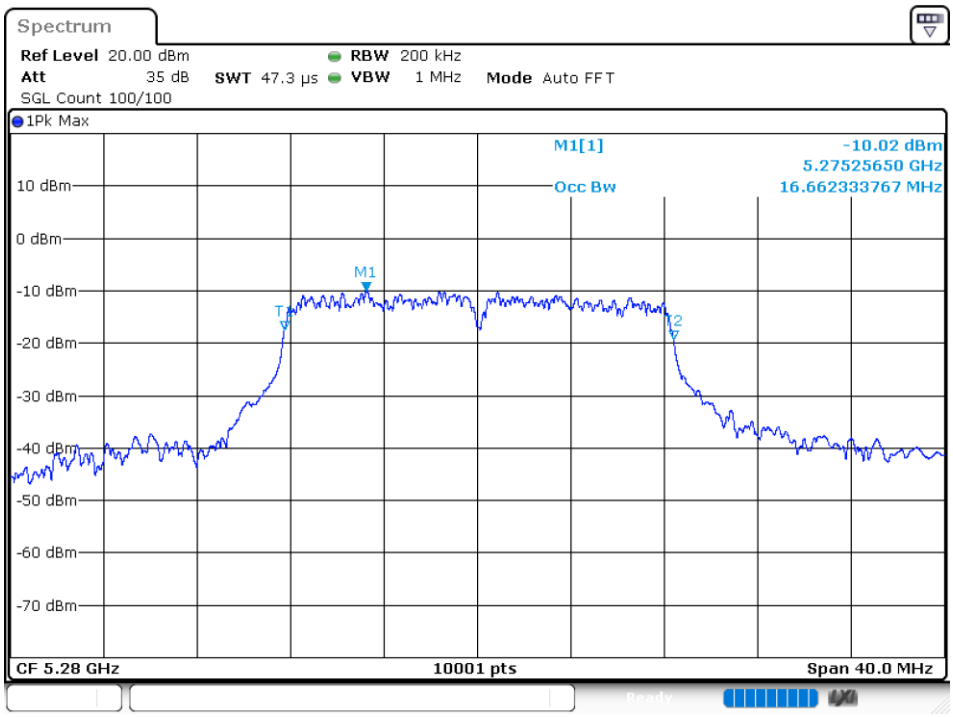
OBW NVNT 802.11a 5260MHz Ant1



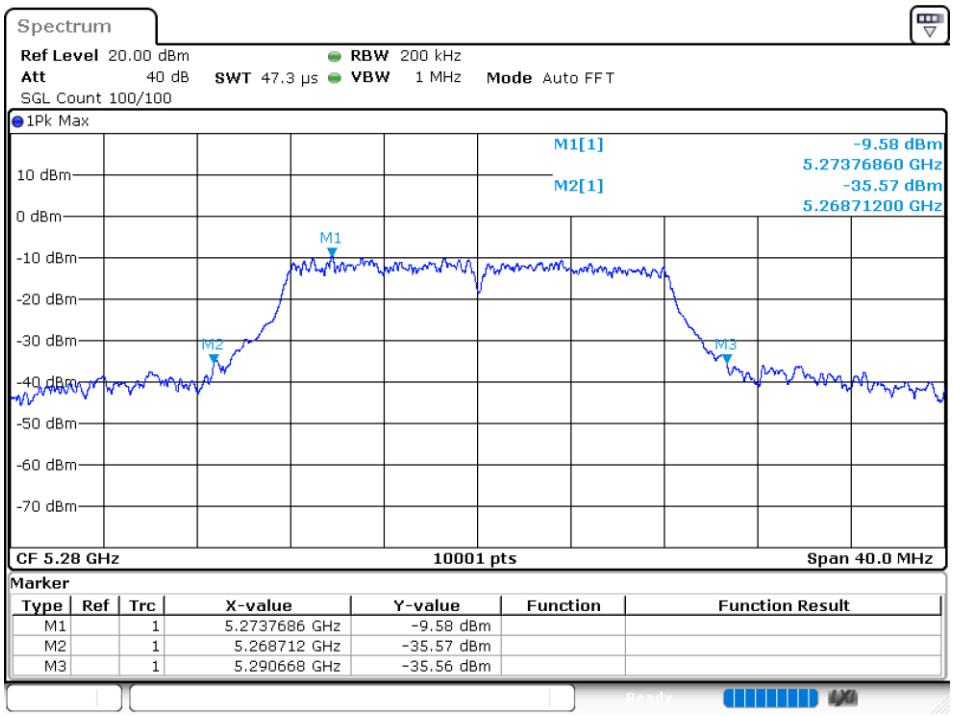
-26 dB BW NVNT 802.11a 5260MHz Ant1



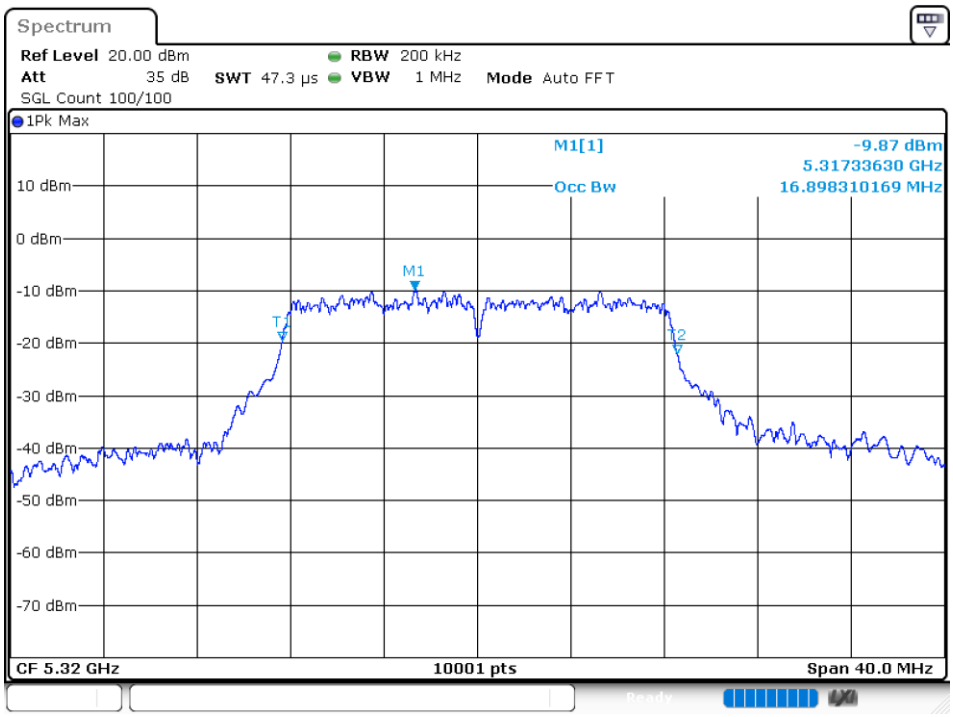
OBW NVNT 802.11a 5280MHz Ant1



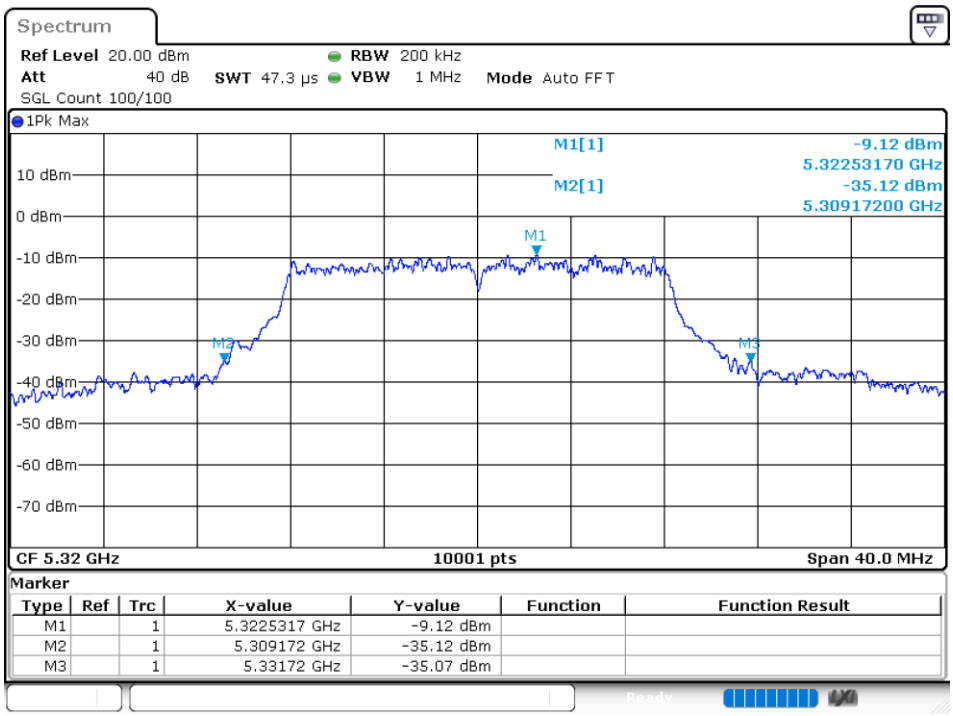
-26 dB BW NVNT 802.11a 5280MHz Ant1



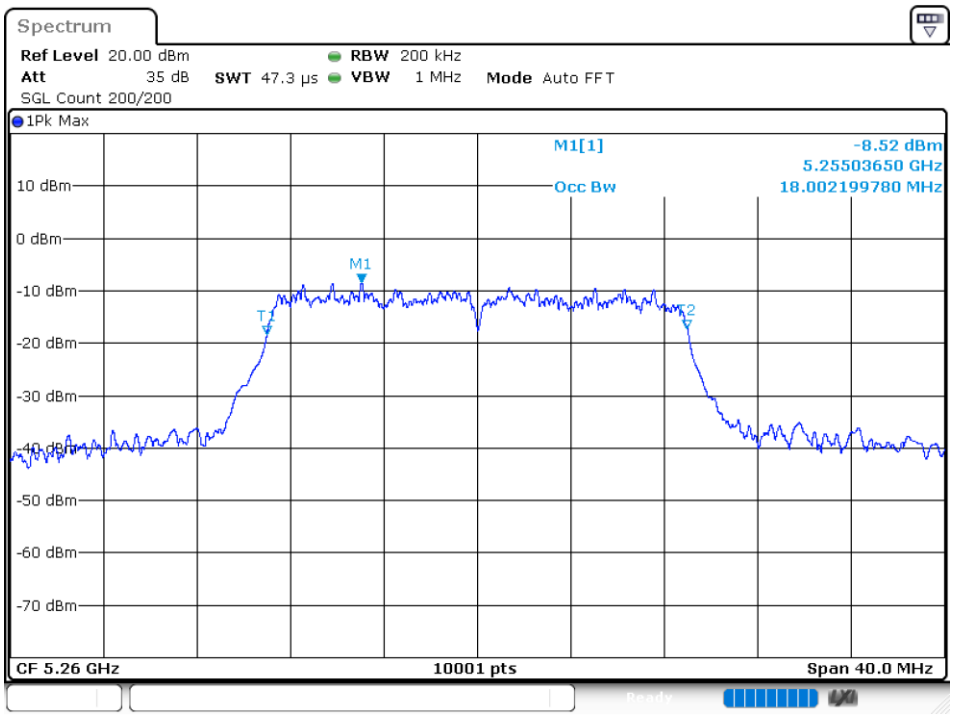
OBW NVNT 802.11a 5320MHz Ant1



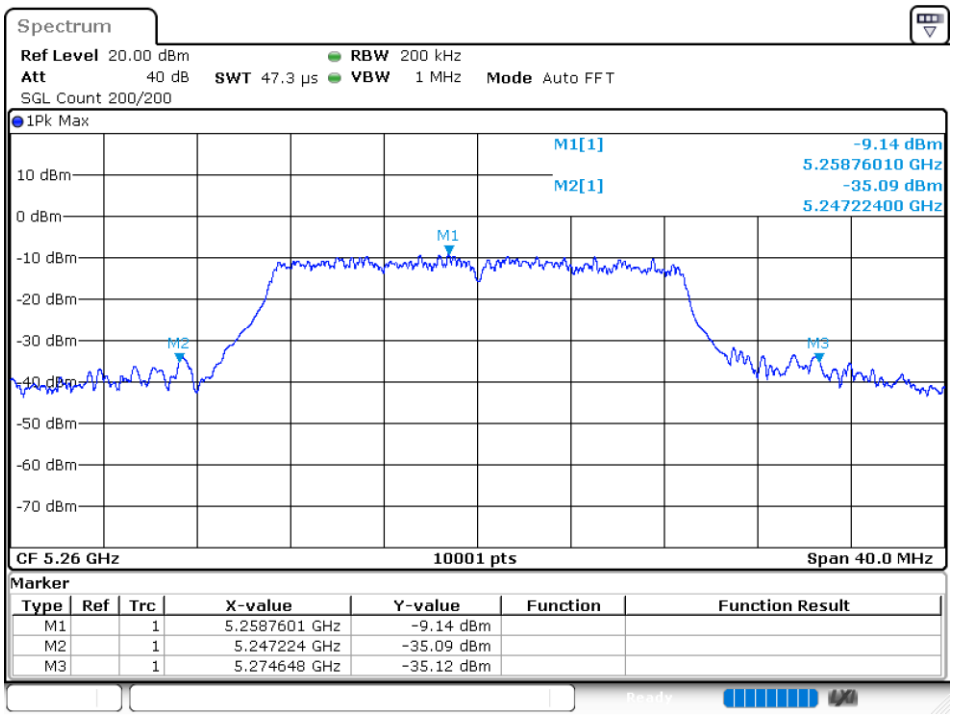
-26 dB BW NVNT 802.11a 5320MHz Ant1



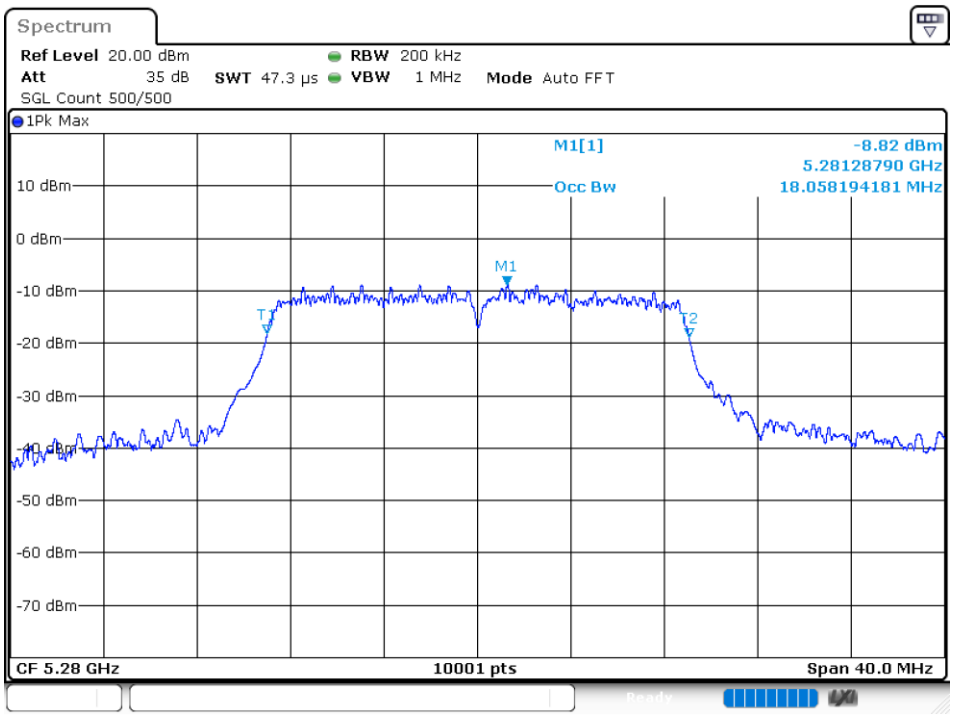
OBW NVNT 802.11n(HT20) 5260MHz Ant1



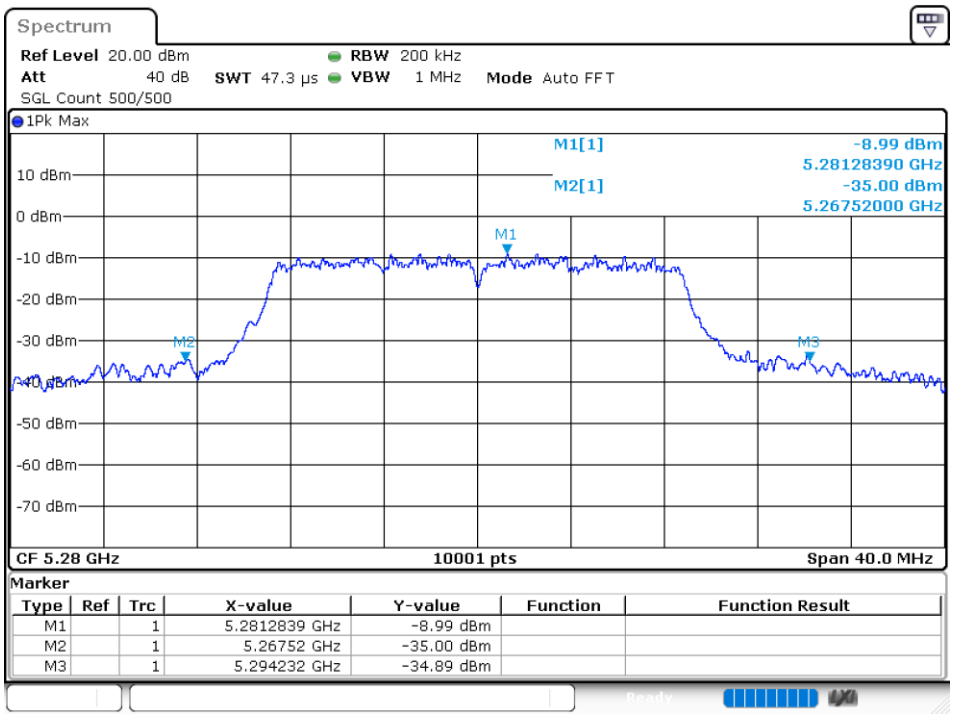
-26 dB BW NVNT 802.11n(HT20) 5260MHz Ant1



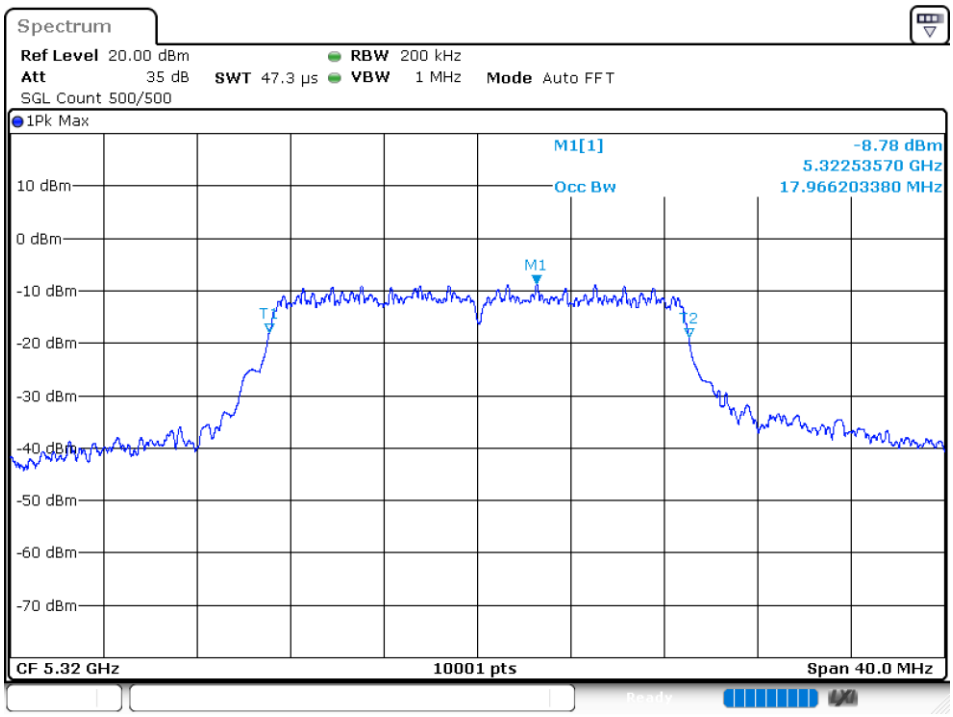
OBW NVNT 802.11n(HT20) 5280MHz Ant1



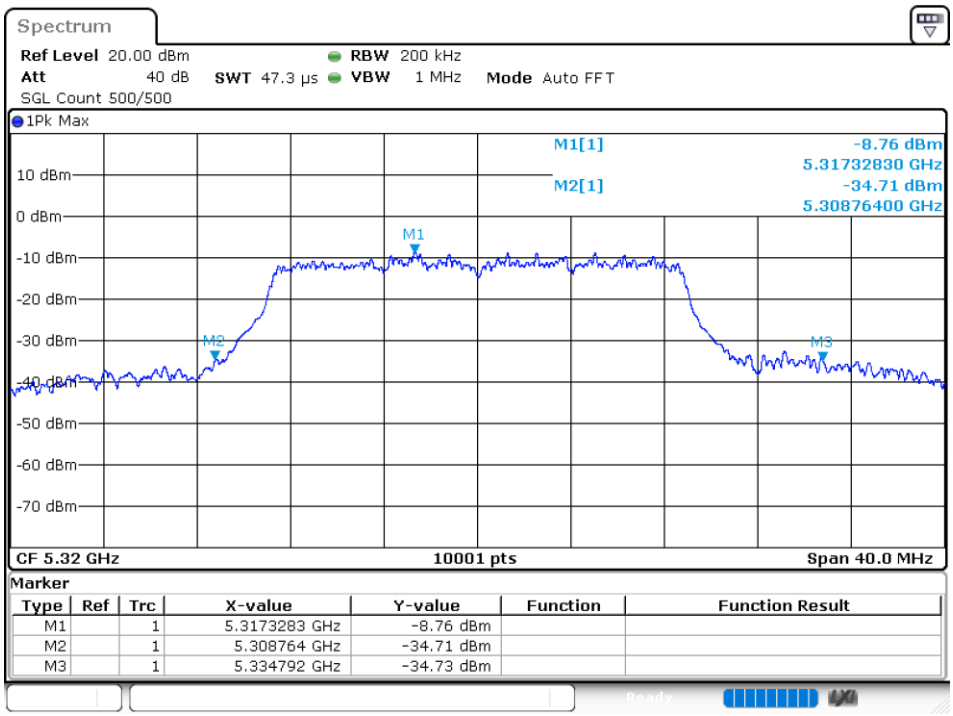
-26 dB BW NVNT 802.11n(HT20) 5280MHz Ant1



OBW NVNT 802.11n(HT20) 5320MHz Ant1



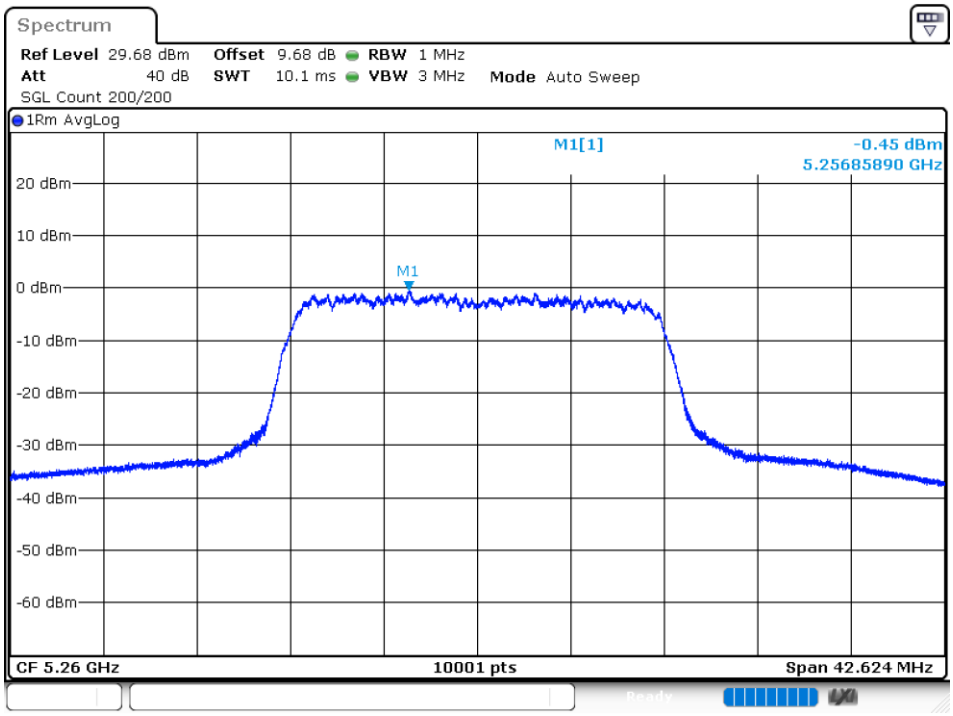
-26 dB BW NVNT 802.11n(HT20) 5320MHz Ant1



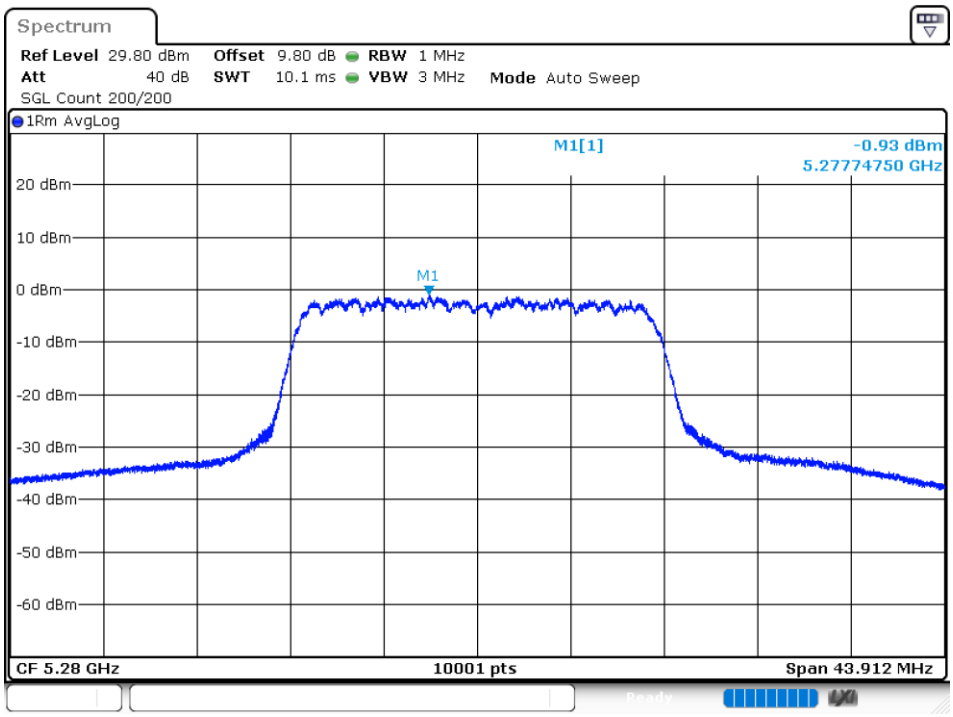
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	-0.448	0.13	-0.318	11	Pass
NVNT	802.11a	5280	Ant 1	-0.93	0.13	-0.8	11	Pass
NVNT	802.11a	5320	Ant 1	-1.468	0.13	-1.338	11	Pass
NVNT	802.11n(HT20)	5260	Ant 1	-1.071	0.14	-0.931	11	Pass
NVNT	802.11n(HT20)	5280	Ant 1	-1.794	0.14	-1.654	11	Pass
NVNT	802.11n(HT20)	5320	Ant 1	-1.823	0.14	-1.683	11	Pass

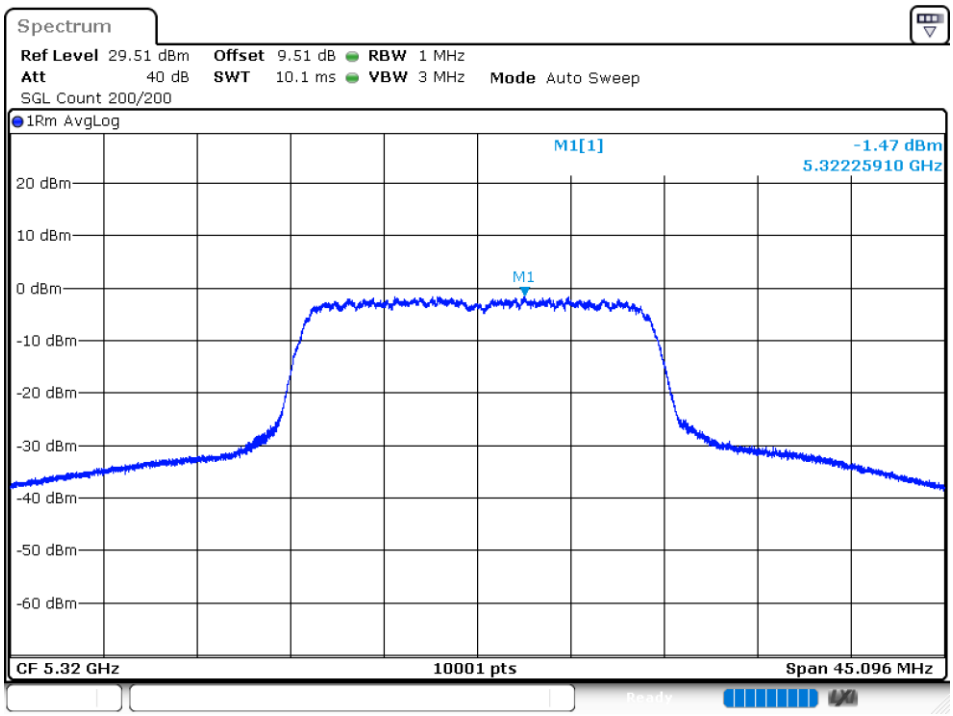
PSD NVNT 802.11a 5260MHz Ant1



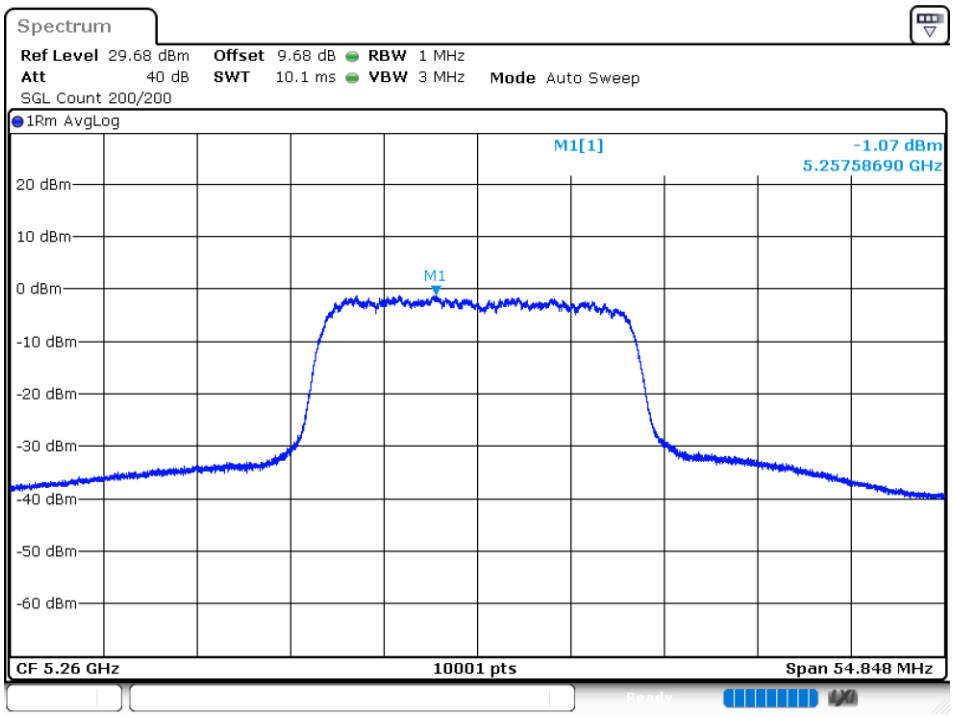
PSD NVNT 802.11a 5280MHz Ant1



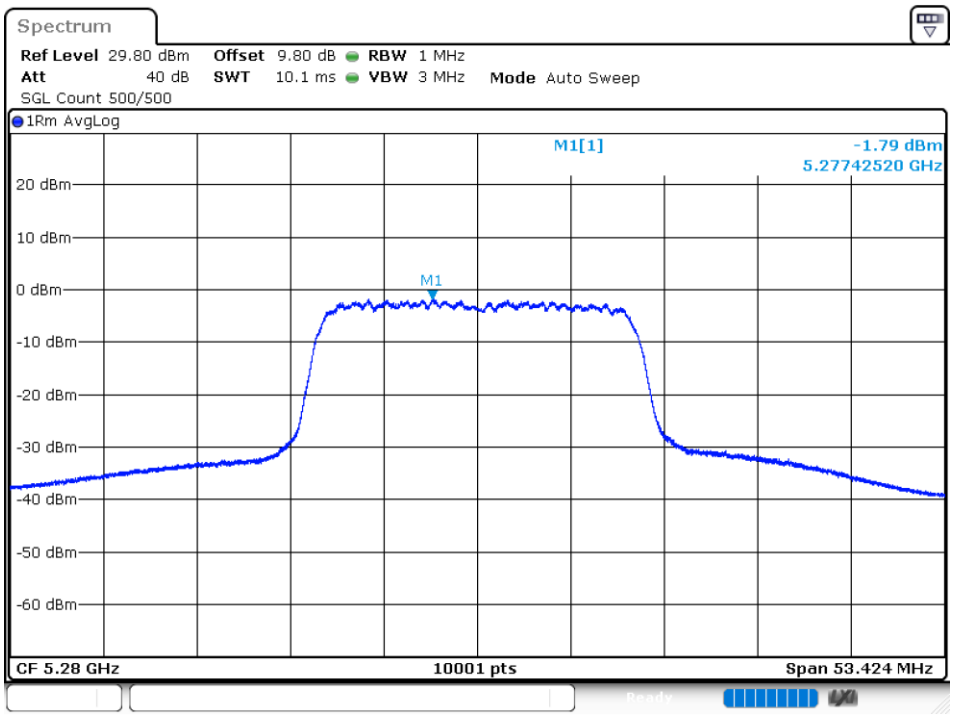
PSD NVNT 802.11a 5320MHz Ant1



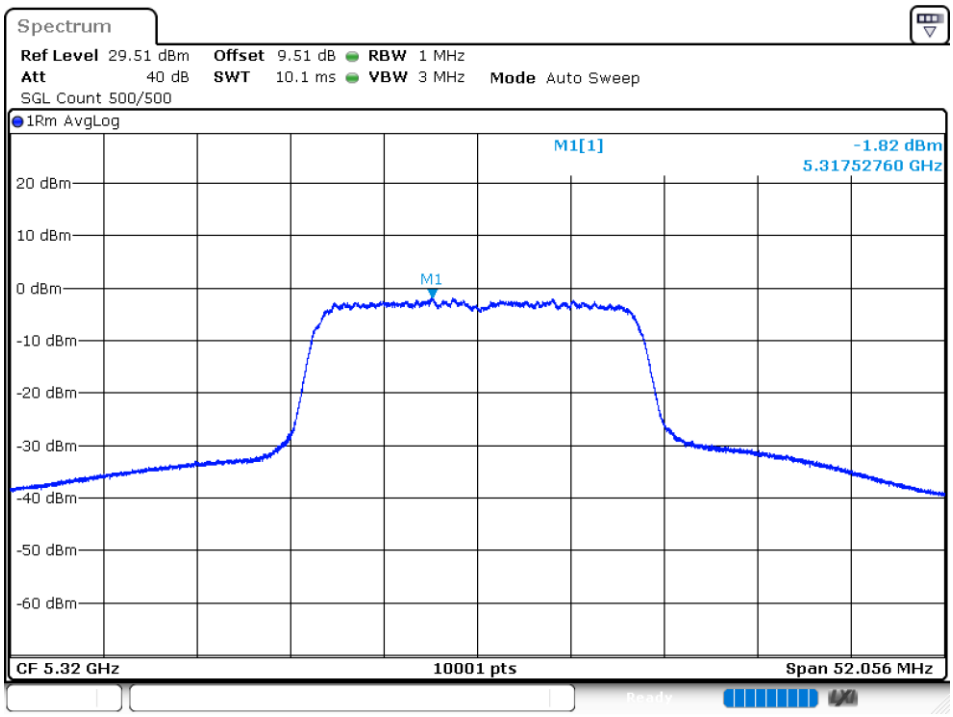
PSD NVNT 802.11n(HT20) 5260MHz Ant1



PSD NVNT 802.11n(HT20) 5280MHz Ant1



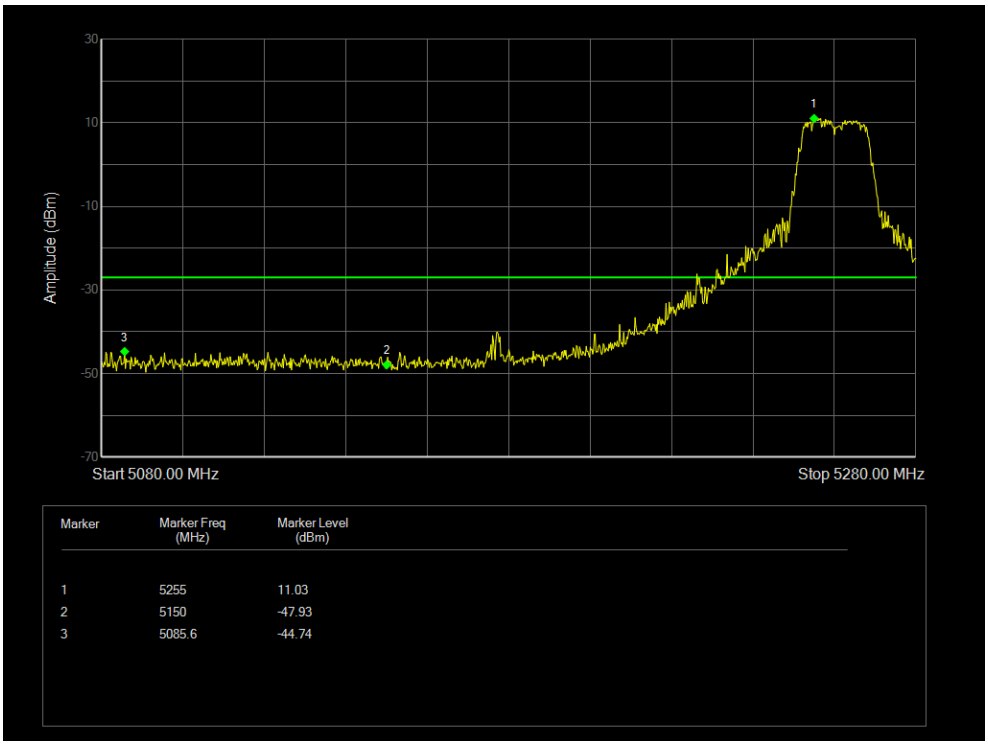
PSD NVNT 802.11n(HT20) 5320MHz Ant1


Spectrum
Ref Level 29.51 dBm Offset 9.51 dB RBW 1 MHz
Att 40 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 500/500
1Rm AvgLog
M1[1] -1.82 dBm
5.31752760 GHz
M1
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.32 GHz
10001 pts
Span 52.056 MHz

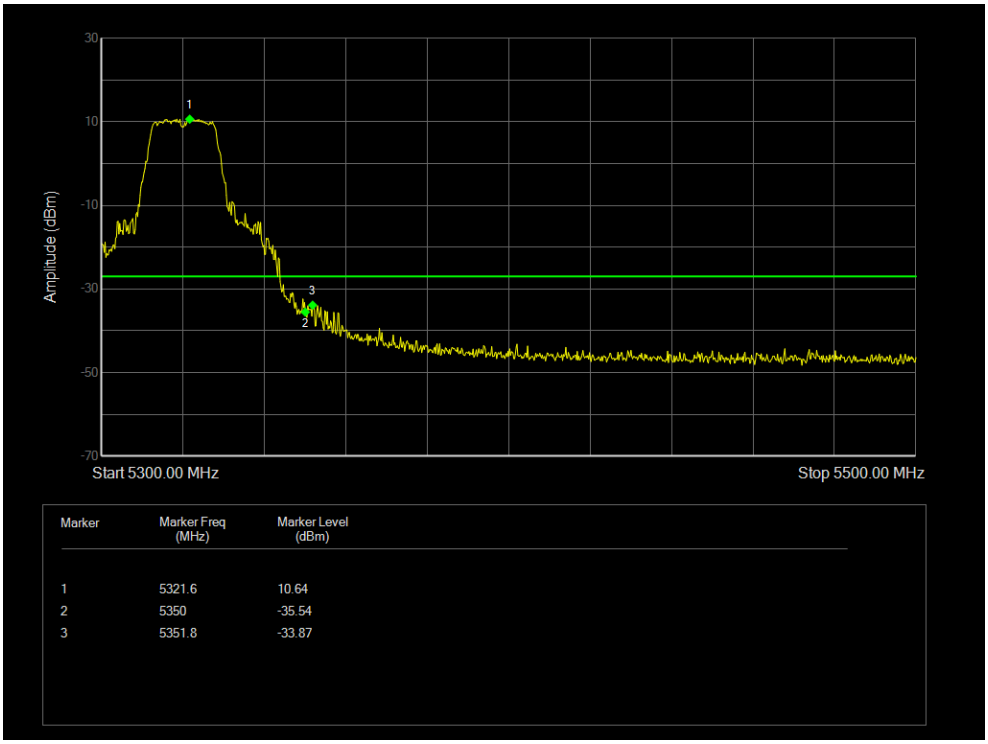
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	-44.74	-27	Pass
NVNT	802.11a	5320	Ant 1	-33.87	-27	Pass
NVNT	802.11n(HT20)	5260	Ant 1	-44.42	-27	Pass
NVNT	802.11n(HT20)	5320	Ant 1	-30.06	-27	Pass

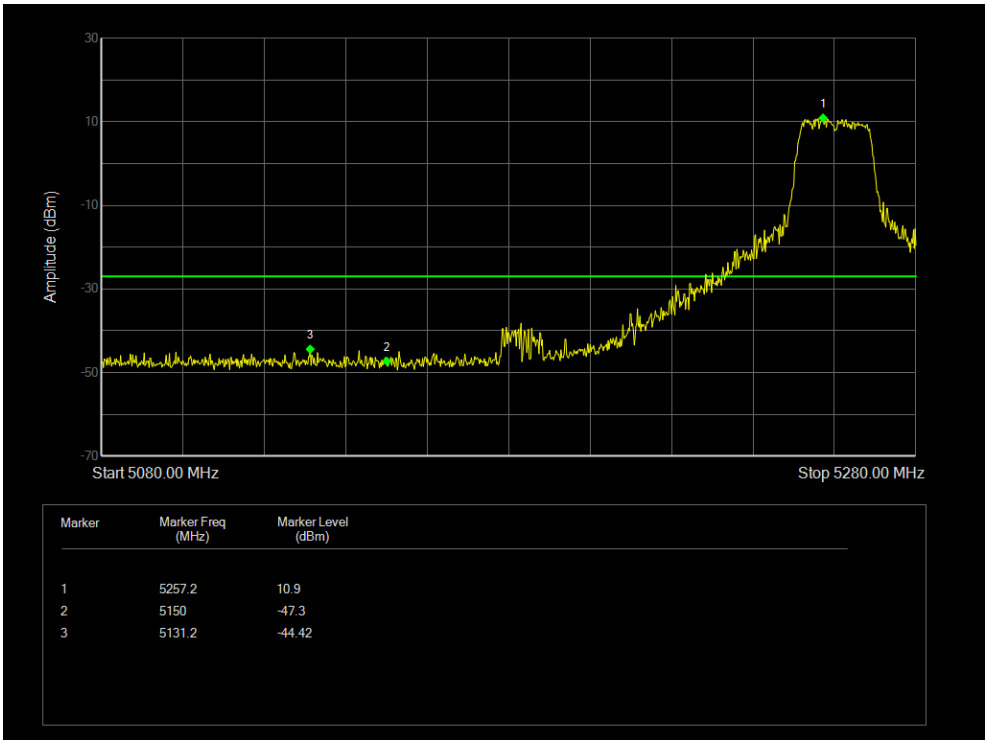
Band Edge NVNT 802.11a 5260MHz Low Ant1



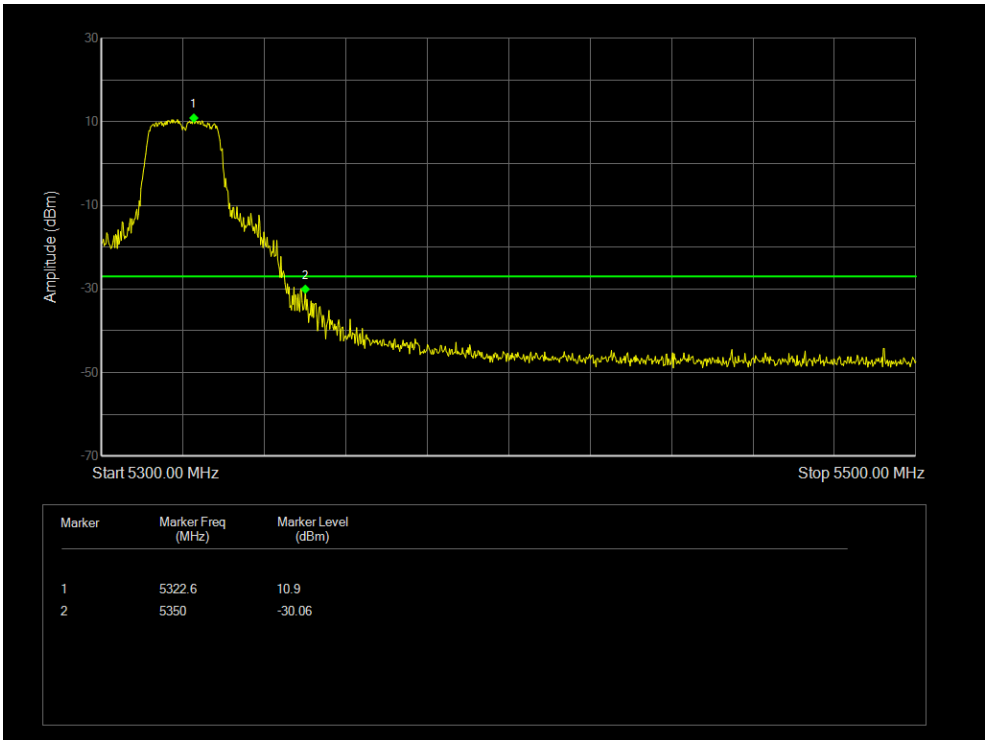
Band Edge NVNT 802.11a 5320MHz High Ant1



Band Edge NVNT 802.11n(HT20) 5260MHz Low Ant1



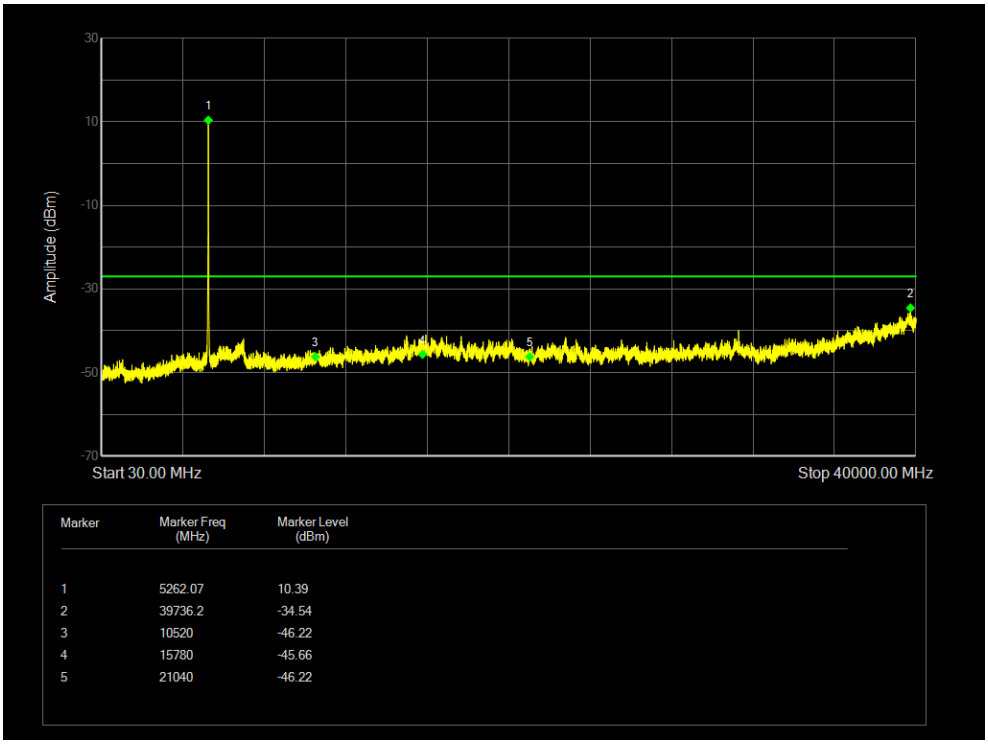
Band Edge NVNT 802.11n(HT20) 5320MHz High Ant1


30
10
-10
-30
-50
-70
Amplitude (dBm)
1
2
Start 5300.00 MHz
Stop 5500.00 MHz
Marker
Marker Freq (MHz)
Marker Level (dBm)
1 5322.6 10.9
2 5350 -30.06

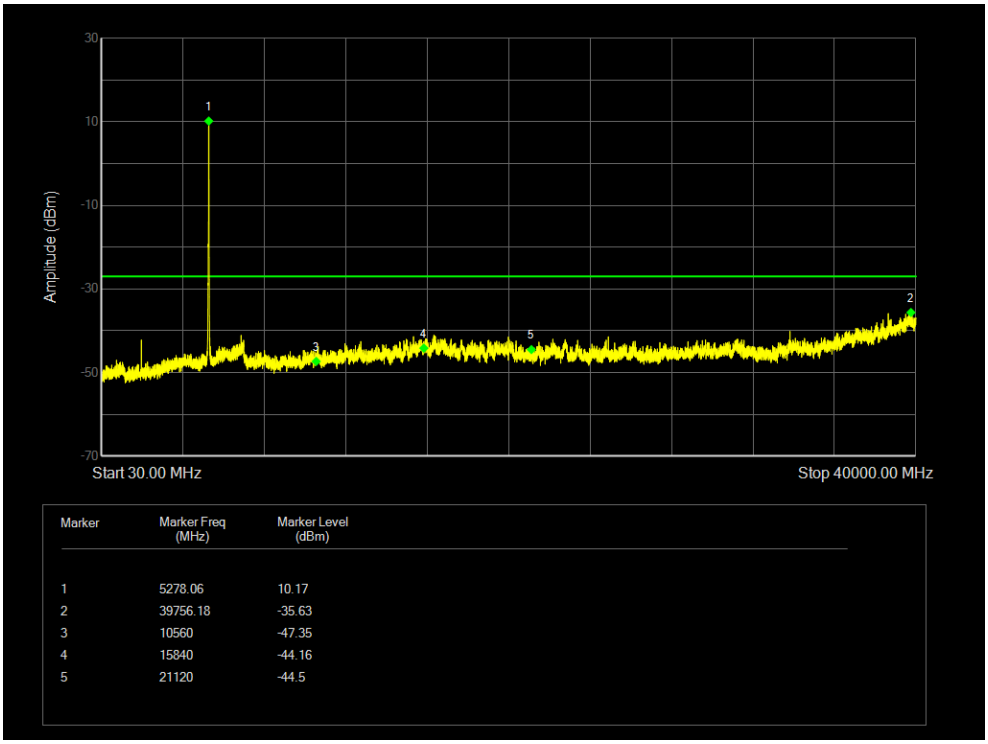
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11a	5260	Ant 1	-34.54	-27	Pass
NVNT	802.11a	5280	Ant 1	-35.63	-27	Pass
NVNT	802.11a	5320	Ant 1	-35.77	-27	Pass
NVNT	802.11n(HT20)	5260	Ant 1	-35.62	-27	Pass
NVNT	802.11n(HT20)	5280	Ant 1	-35.14	-27	Pass
NVNT	802.11n(HT20)	5320	Ant 1	-35.51	-27	Pass

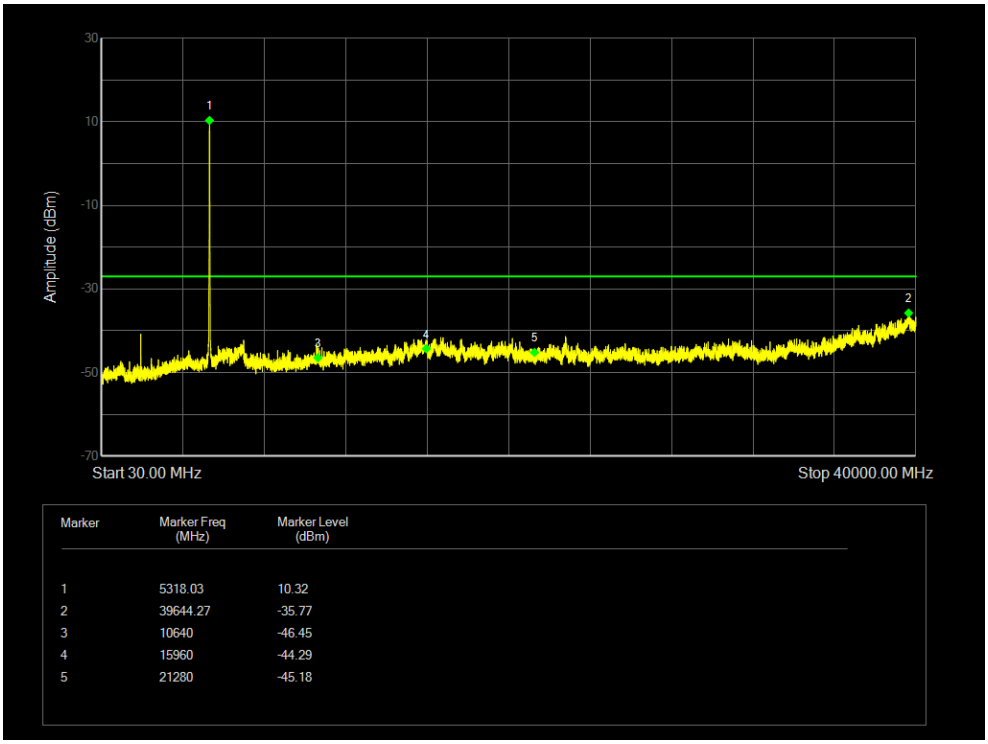
Tx. Spurious NVNT 802.11a 5260MHz Ant1 Emission



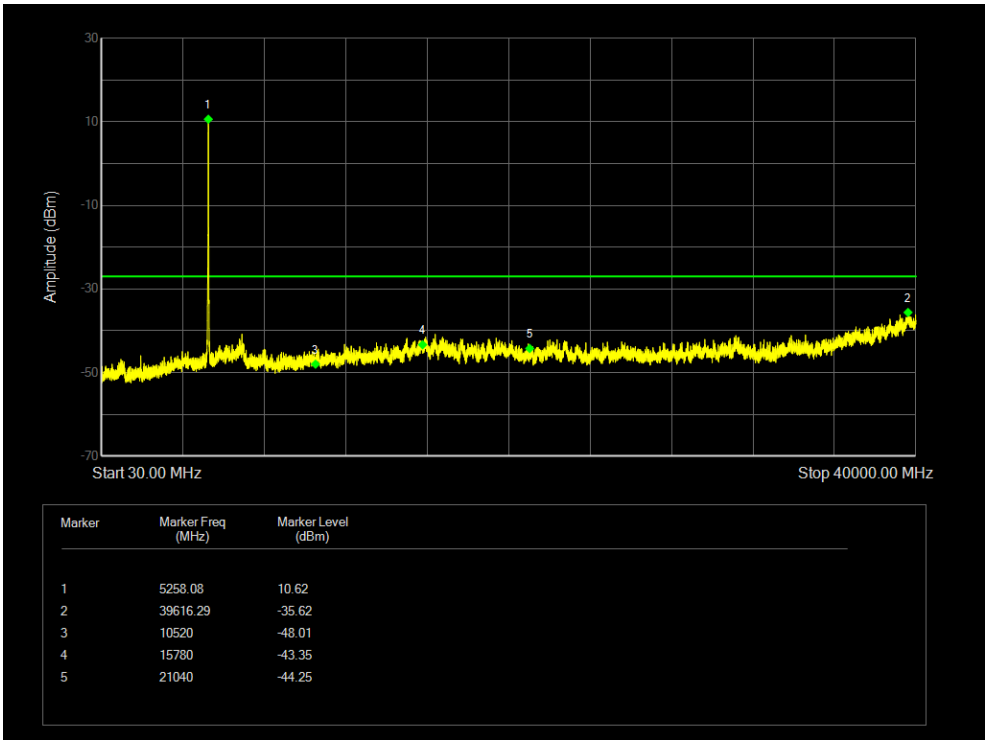
Tx. Spurious NVNT 802.11a 5280MHz Ant1 Emission



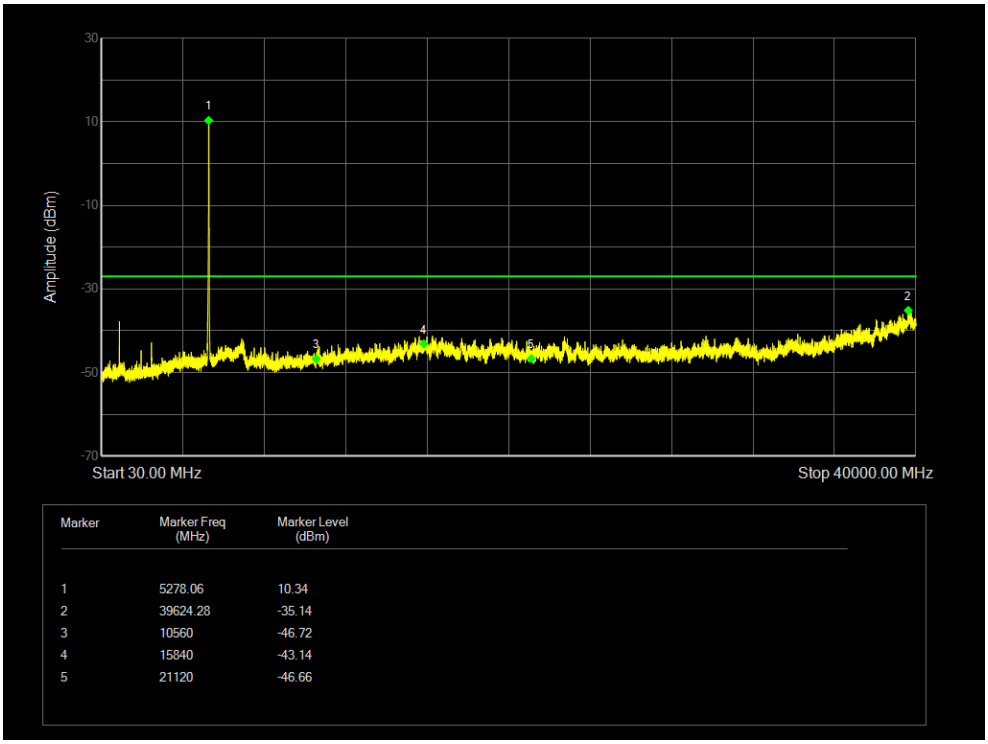
Tx. Spurious NVNT 802.11a 5320MHz Ant1 Emission



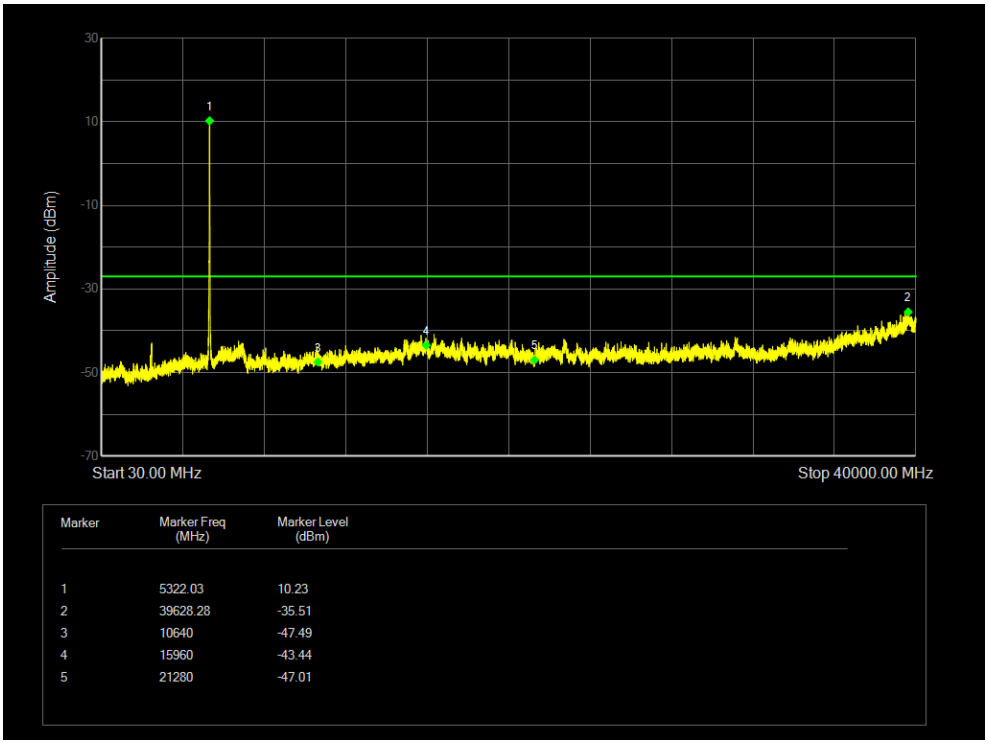
Tx. Spurious NVNT 802.11n(HT20) 5260MHz Ant1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5280MHz Ant1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5320MHz Ant1 Emission



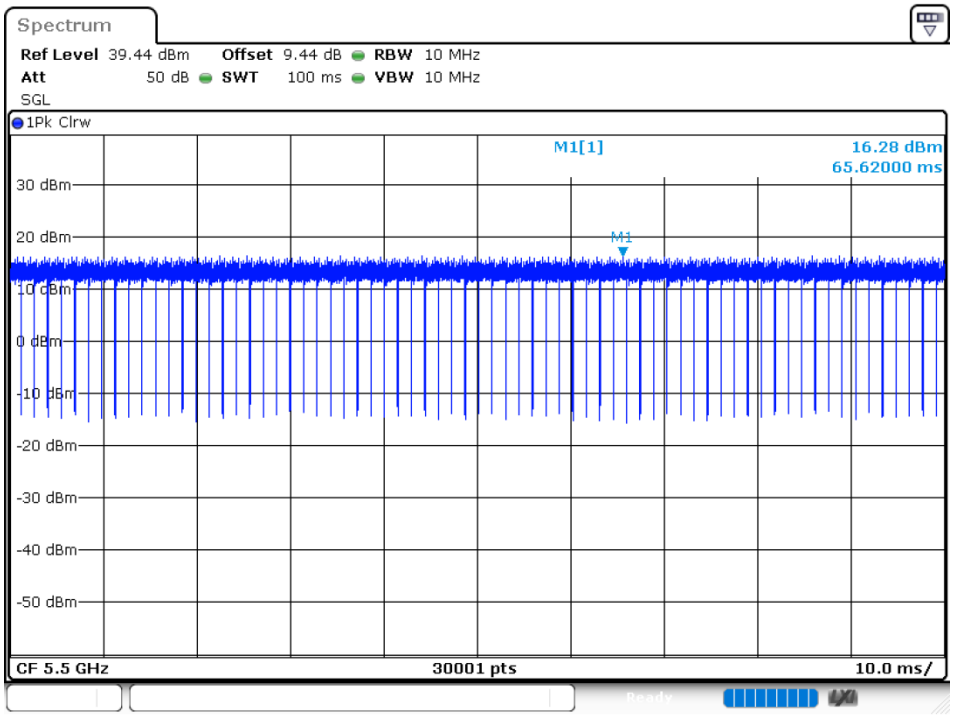
Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5322.03	10.23
2	39628.28	-35.51
3	10640	-47.49
4	15960	-43.44
5	21280	-47.01

5.6G WIFI

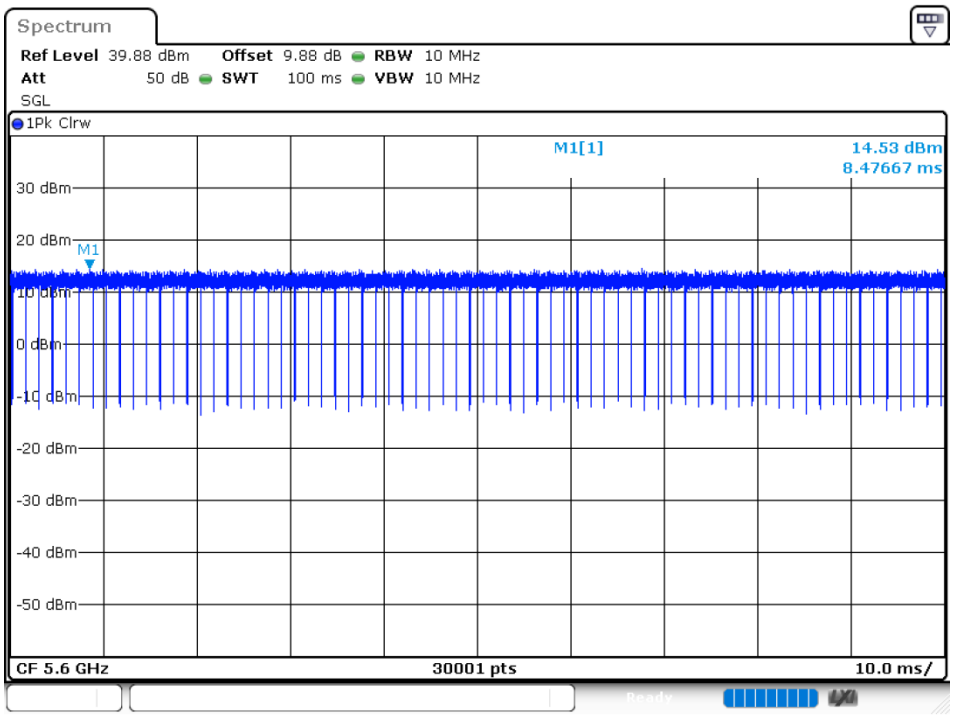
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5500	97.04	0.13
NVNT	802.11a	5600	97.01	0.13
NVNT	802.11a	5700	97	0.13
NVNT	802.11n(HT20)	5500	96.83	0.14
NVNT	802.11n(HT20)	5600	96.83	0.14
NVNT	802.11n(HT20)	5700	96.84	0.14

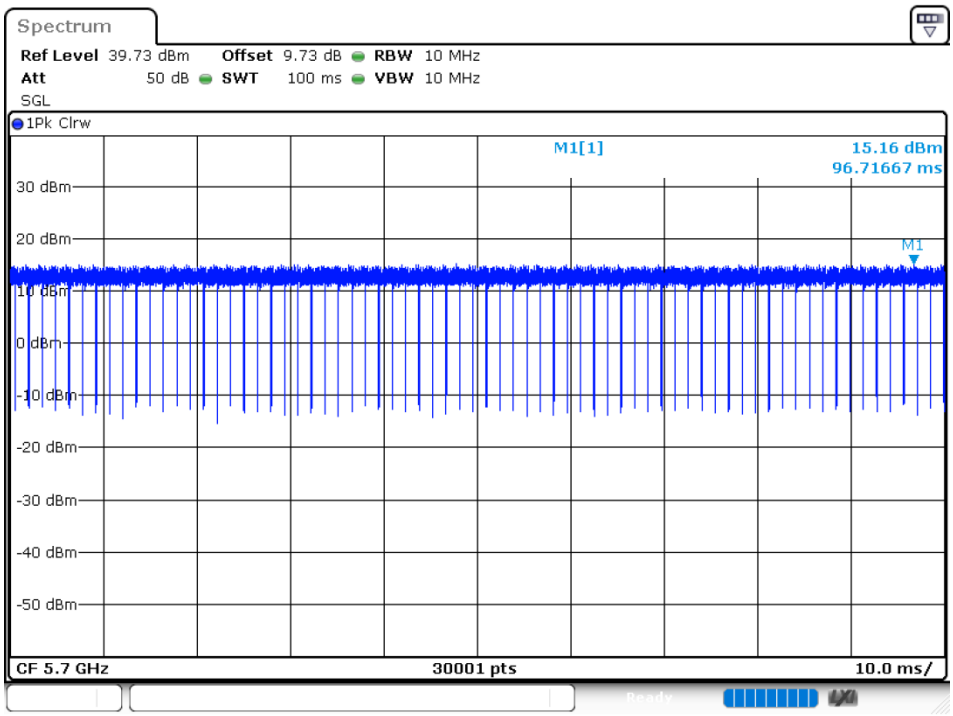
Duty Cycle NVNT 802.11a 5500MHz



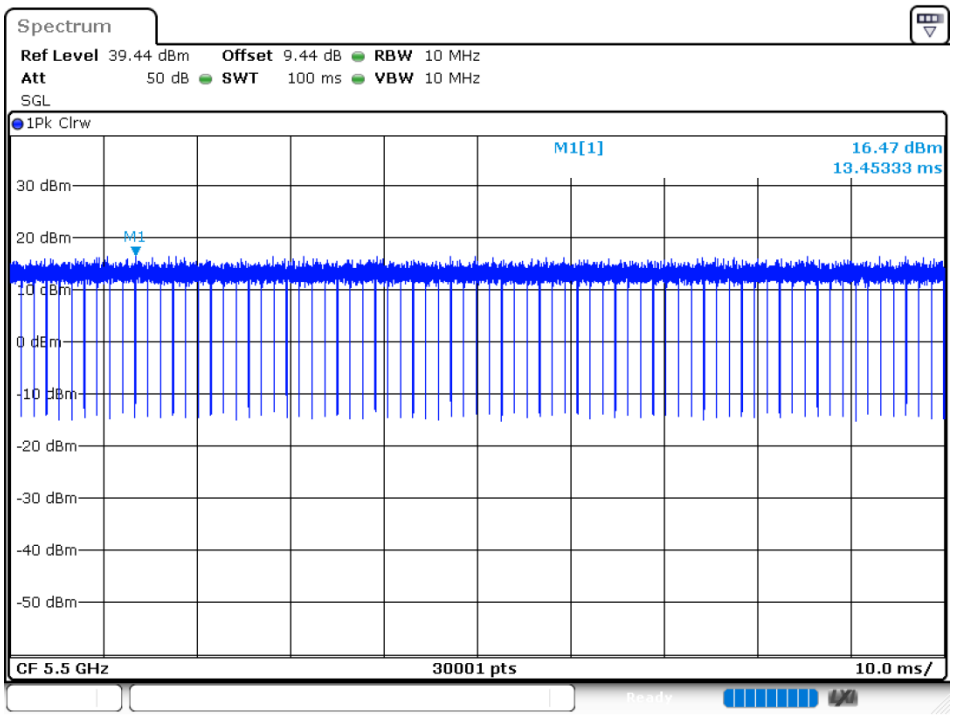
Duty Cycle NVNT 802.11a 5600MHz



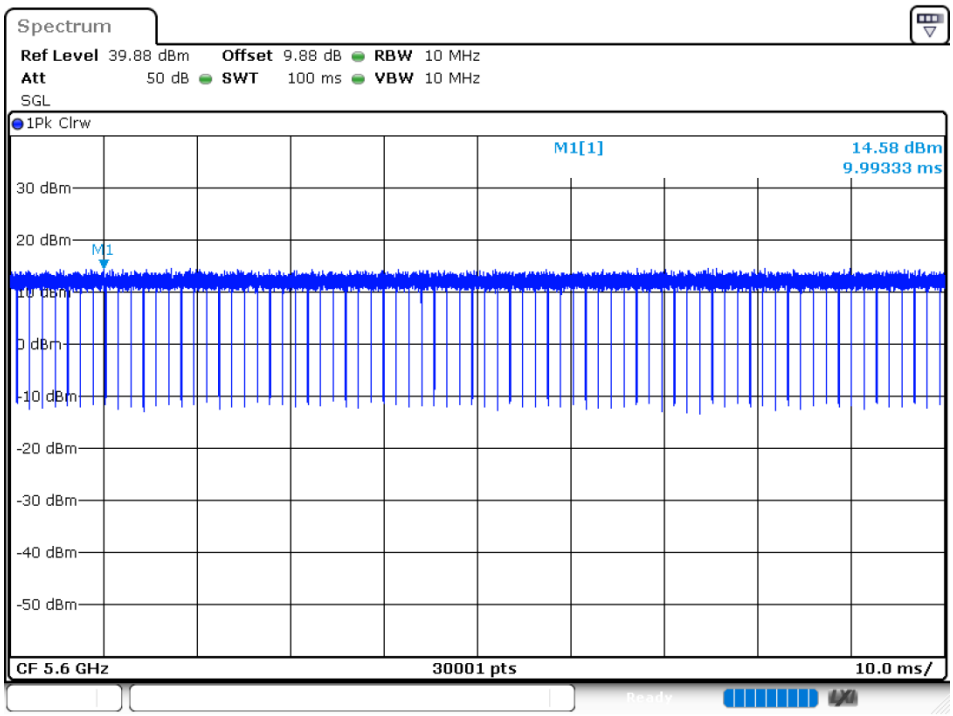
Duty Cycle NVNT 802.11a 5700MHz



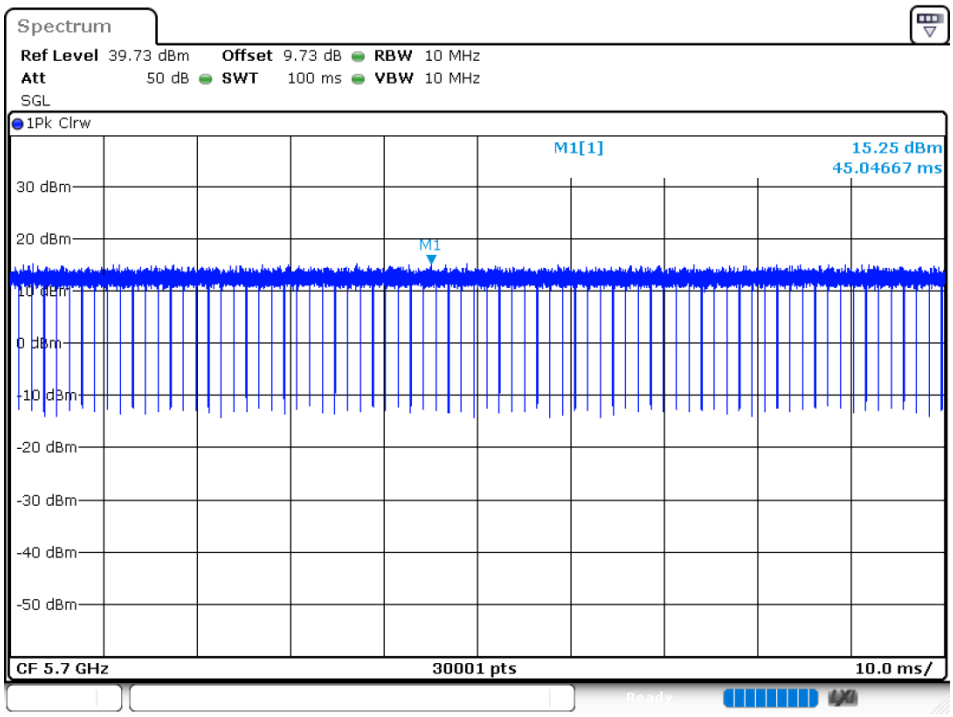
Duty Cycle NVNT 802.11n(HT20) 5500MHz



Duty Cycle NVNT 802.11n(HT20) 5600MHz



Duty Cycle NVNT 802.11n(HT20) 5700MHz


Spectrum
Ref Level 39.73 dBm Offset 9.73 dB RBW 10 MHz
Att 50 dB SWT 100 ms VBW 10 MHz
SGL
1Pk Clrw
M1[1] 15.25 dBm
45.04667 ms
30 dBm
20 dBm
M1
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
CF 5.7 GHz
30001 pts
10.0 ms/

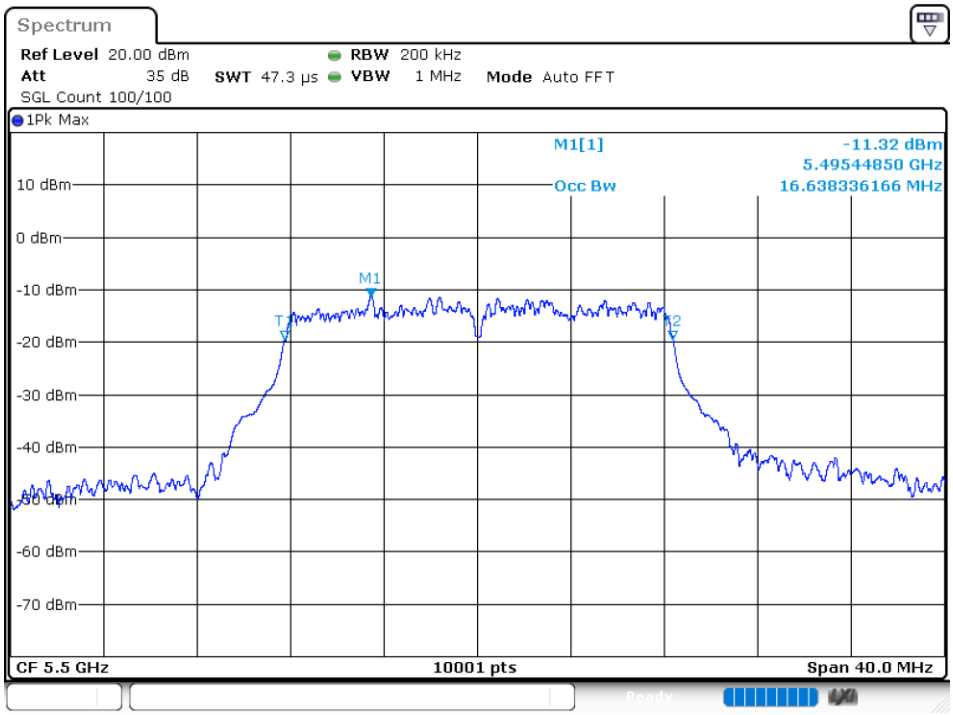
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5500	Ant 1	8.46	0.13	8.59	24	Pass
NVNT	802.11a	5600	Ant 1	8.44	0.13	8.57	24	Pass
NVNT	802.11a	5700	Ant 1	8.02	0.13	8.15	24	Pass
NVNT	802.11n(HT20)	5500	Ant 1	8.61	0.14	8.75	24	Pass
NVNT	802.11n(HT20)	5600	Ant 1	8.41	0.14	8.55	24	Pass
NVNT	802.11n(HT20)	5700	Ant 1	8.06	0.14	8.2	24	Pass

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5500	Ant 1	16.6383	20.976	Pass
NVNT	802.11a	5600	Ant 1	17.9462	29.656	Pass
NVNT	802.11a	5700	Ant 1	17.0863	25.952	Pass
NVNT	802.11n(HT20)	5500	Ant 1	17.8782	21.32	Pass
NVNT	802.11n(HT20)	5600	Ant 1	18.7941	30.276	Pass
NVNT	802.11n(HT20)	5700	Ant 1	18.5821	31.964	Pass

OBW NVNT 802.11a 5500MHz Ant1



-26 dB BW NVNT 802.11a 5500MHz Ant1