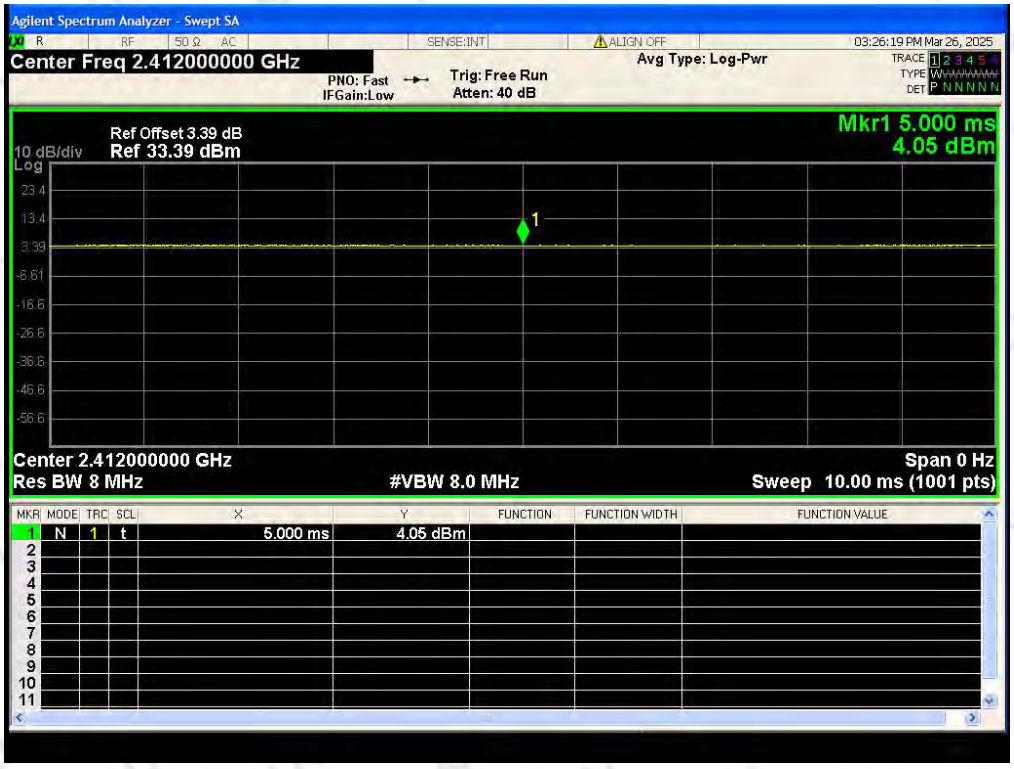
Test Report

2.4G WIFI RF test data

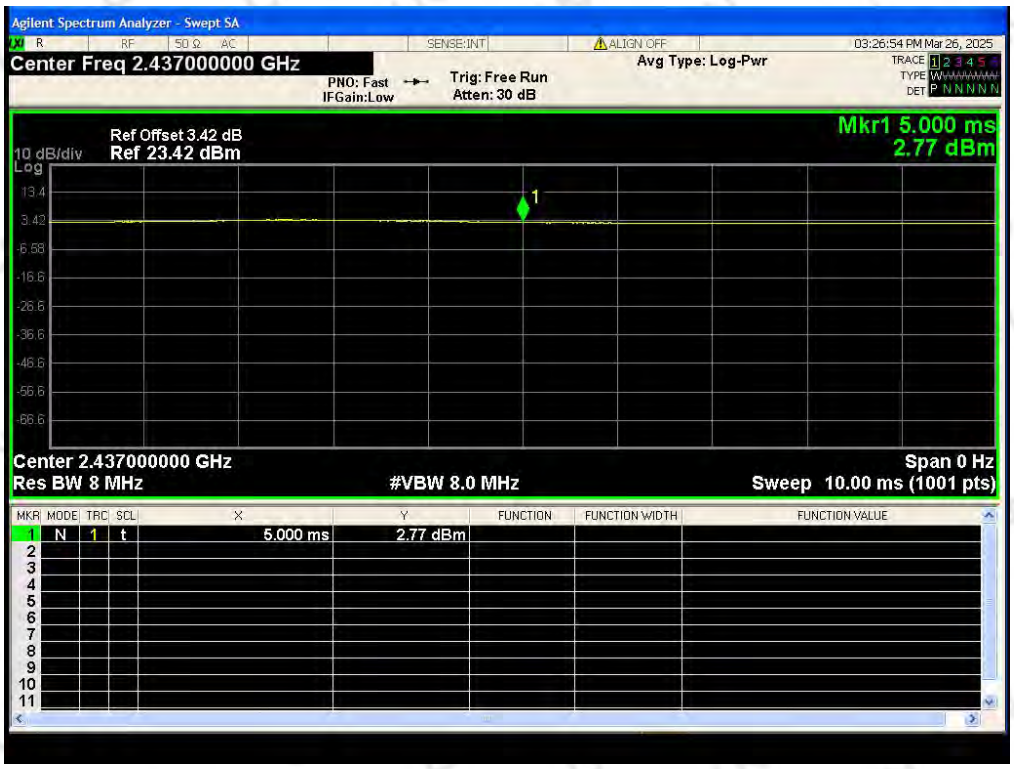
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11b	2412	100	0
NVNT	802.11b	2437	100	0
NVNT	802.11b	2462	100	0
NVNT	802.11g	2412	100	0
NVNT	802.11g	2437	100	0
NVNT	802.11g	2462	100	0
NVNT	802.11n(HT20)	2412	100	0
NVNT	802.11n(HT20)	2437	100	0
NVNT	802.11n(HT20)	2462	100	0

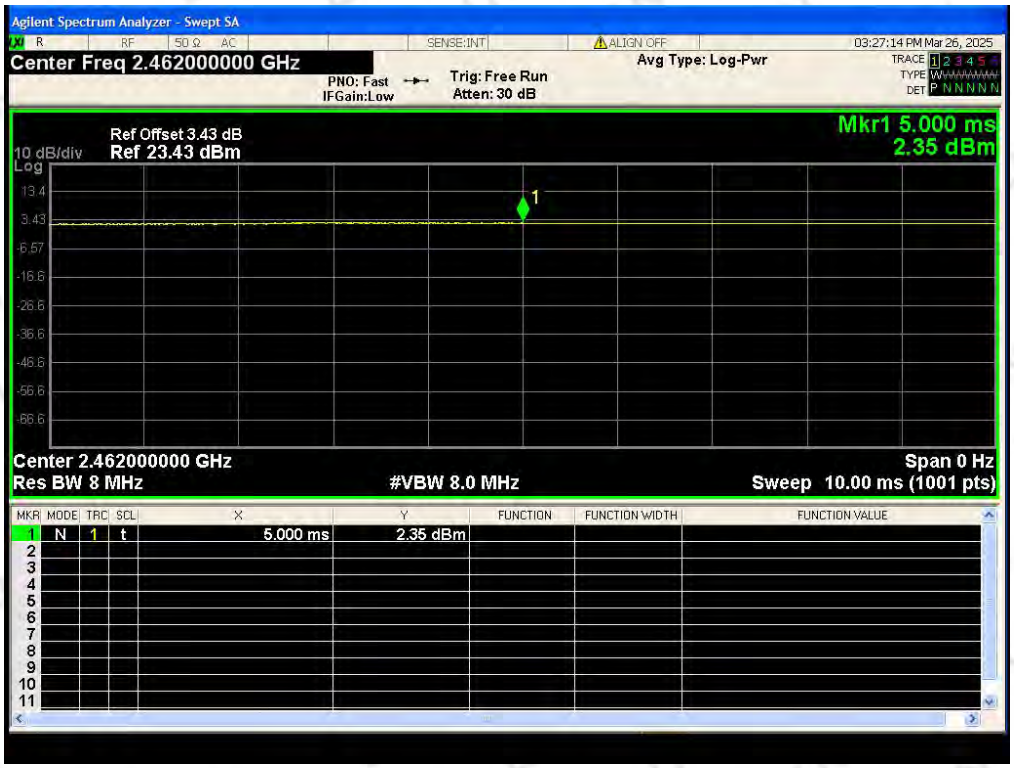
Duty Cycle NVNT 802.11b 2412MHz



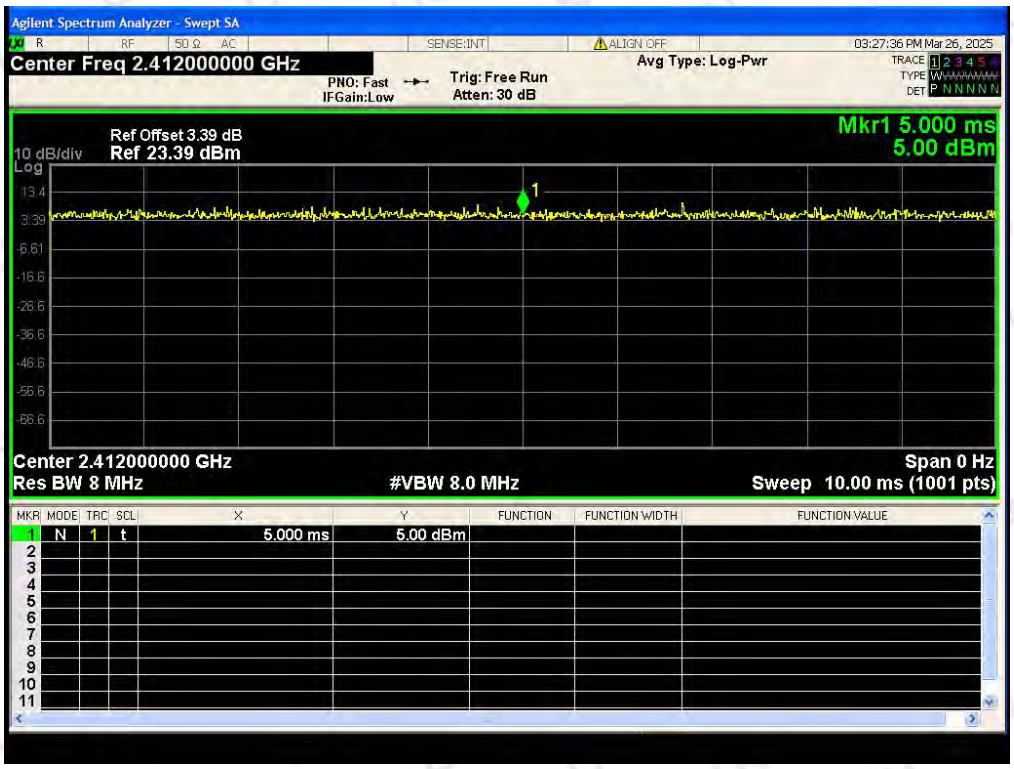
Duty Cycle NVNT 802.11b 2437MHz



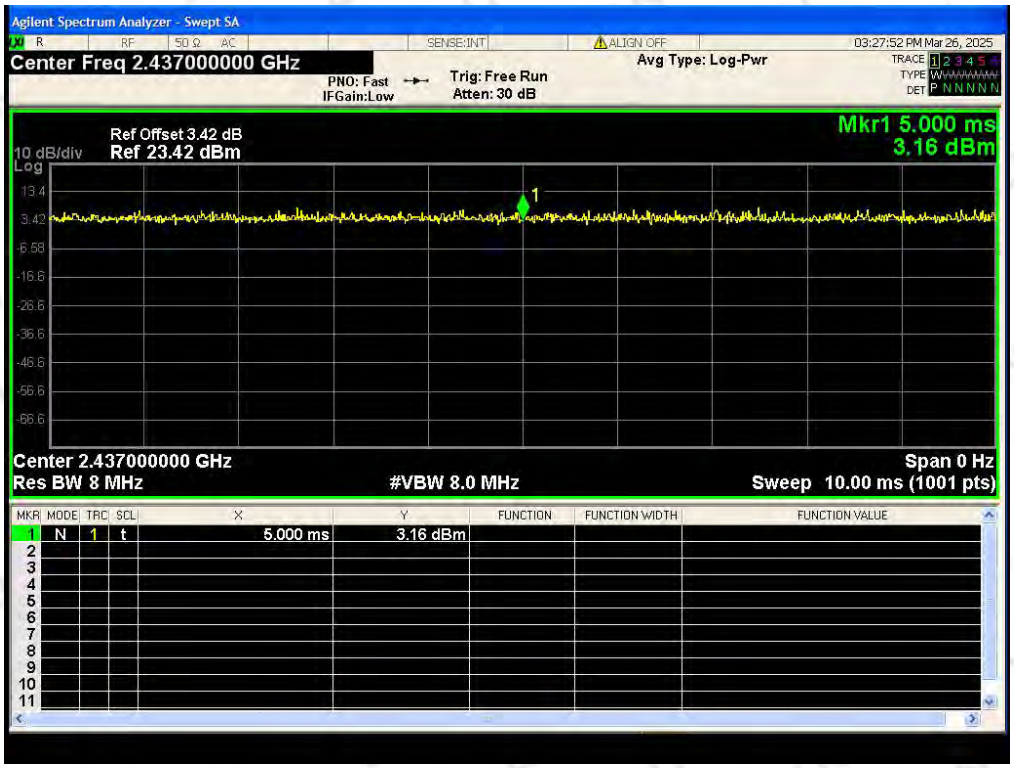
Duty Cycle NVNT 802.11b 2462MHz



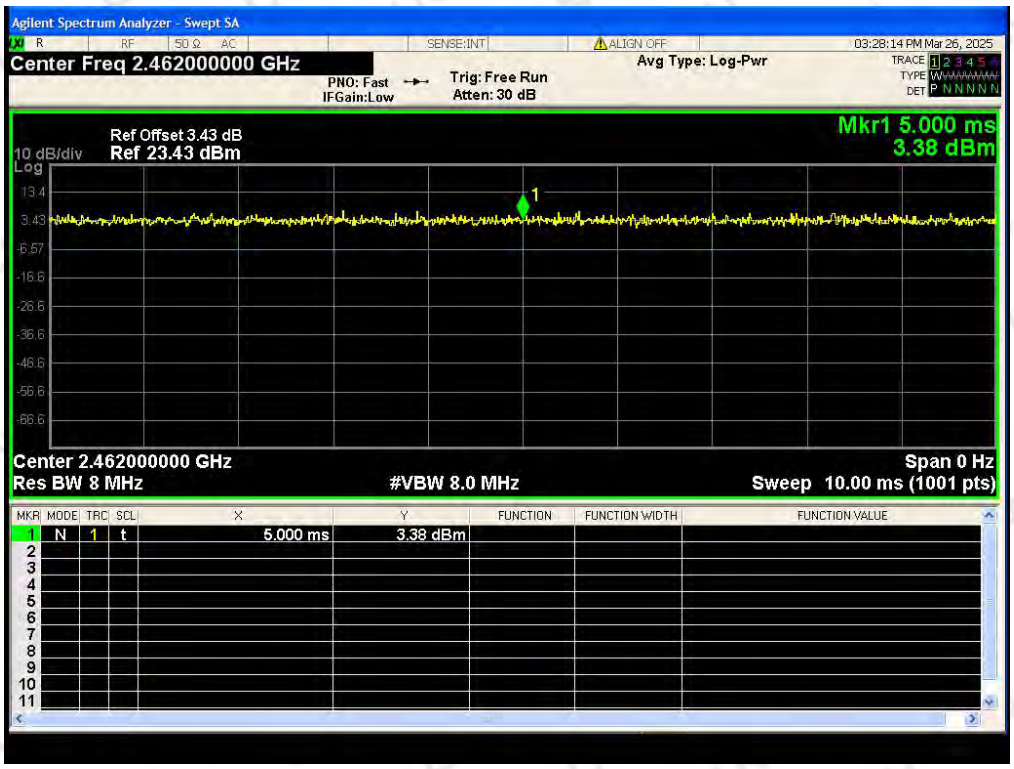
Duty Cycle NVNT 802.11g 2412MHz



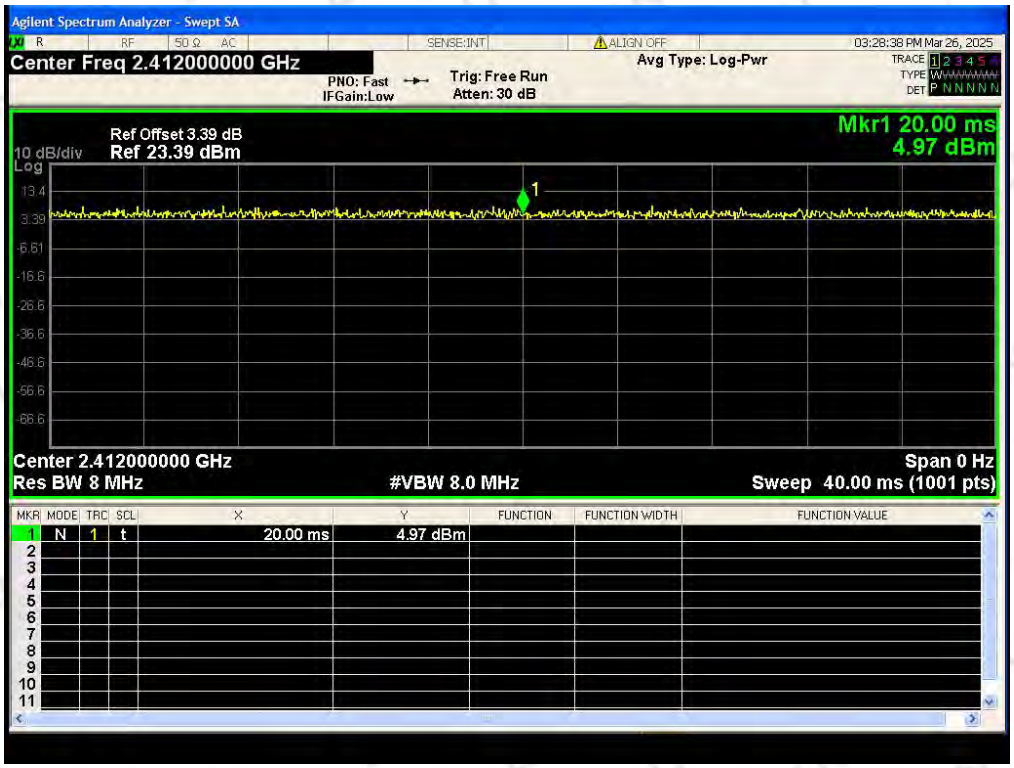
Duty Cycle NVNT 802.11g 2437MHz



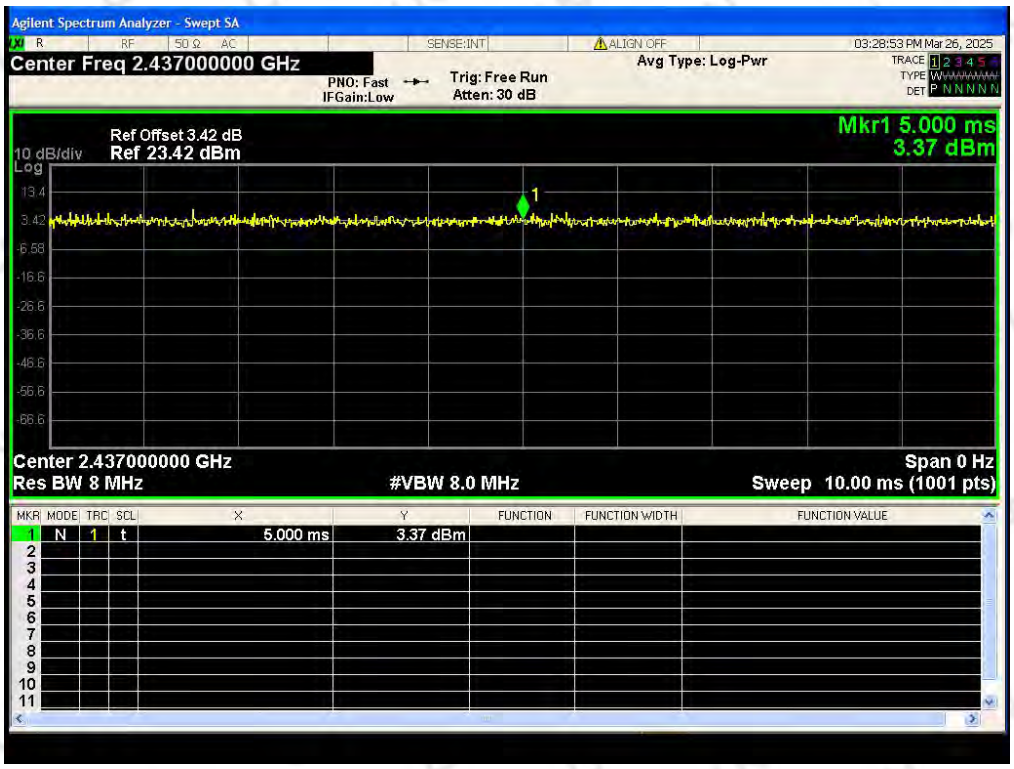
Duty Cycle NVNT 802.11g 2462MHz



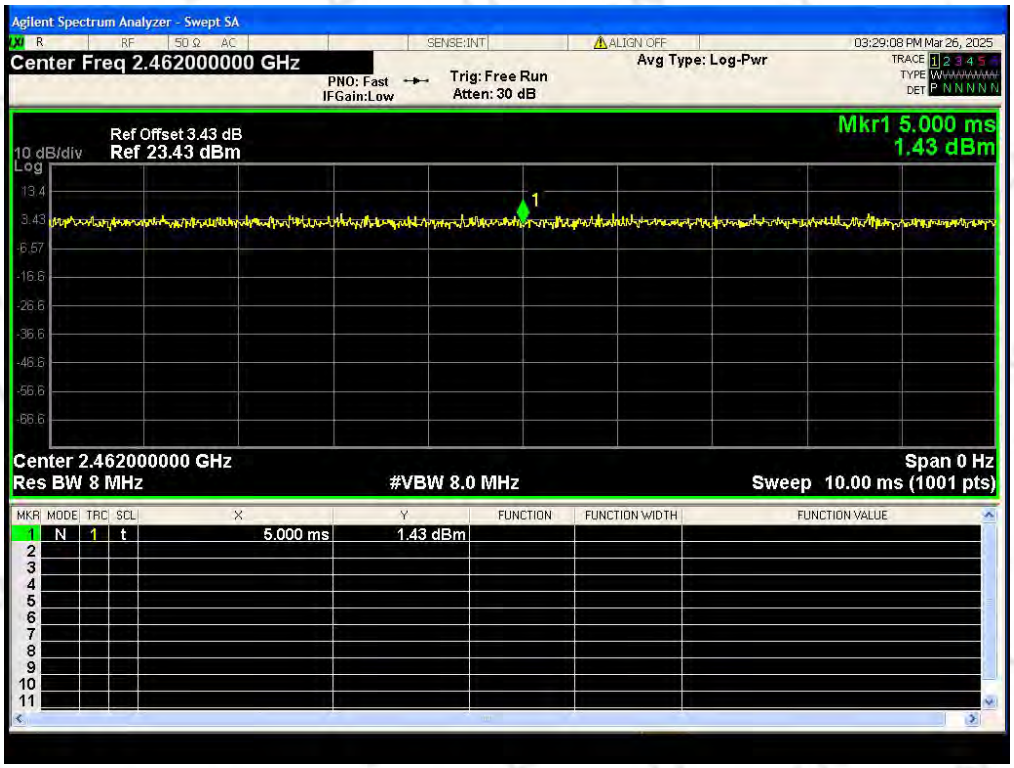
Duty Cycle NVNT 802.11n(HT20) 2412MHz



Duty Cycle NVNT 802.11n(HT20) 2437MHz



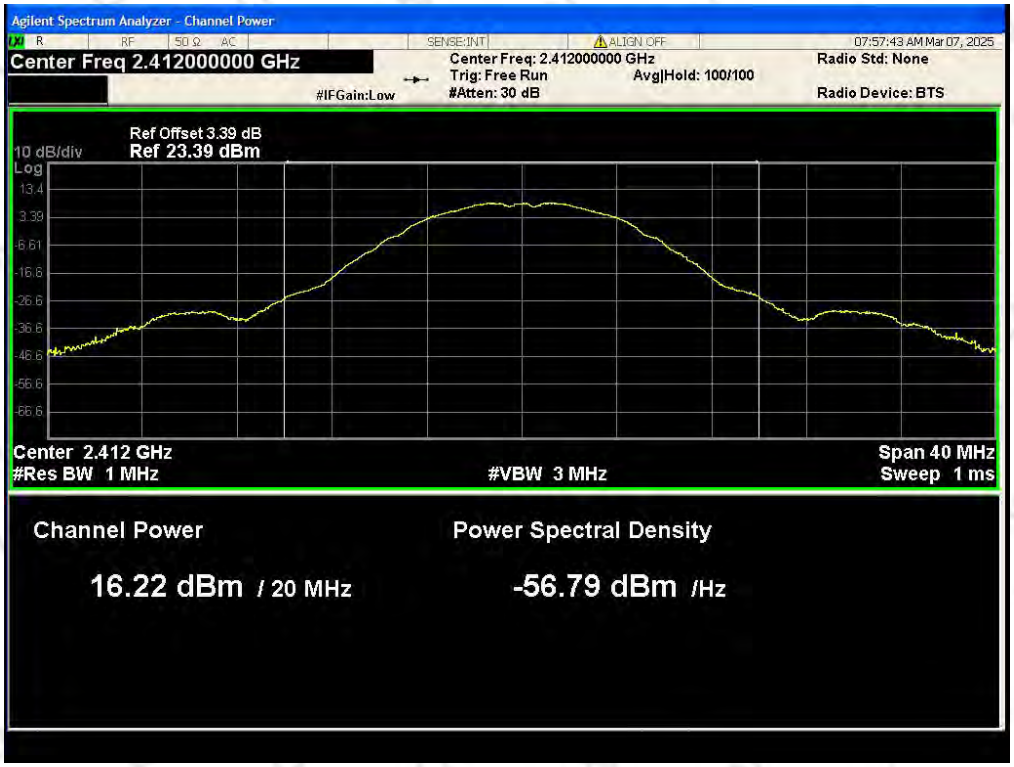
Duty Cycle NVNT 802.11n(HT20) 2462MHz



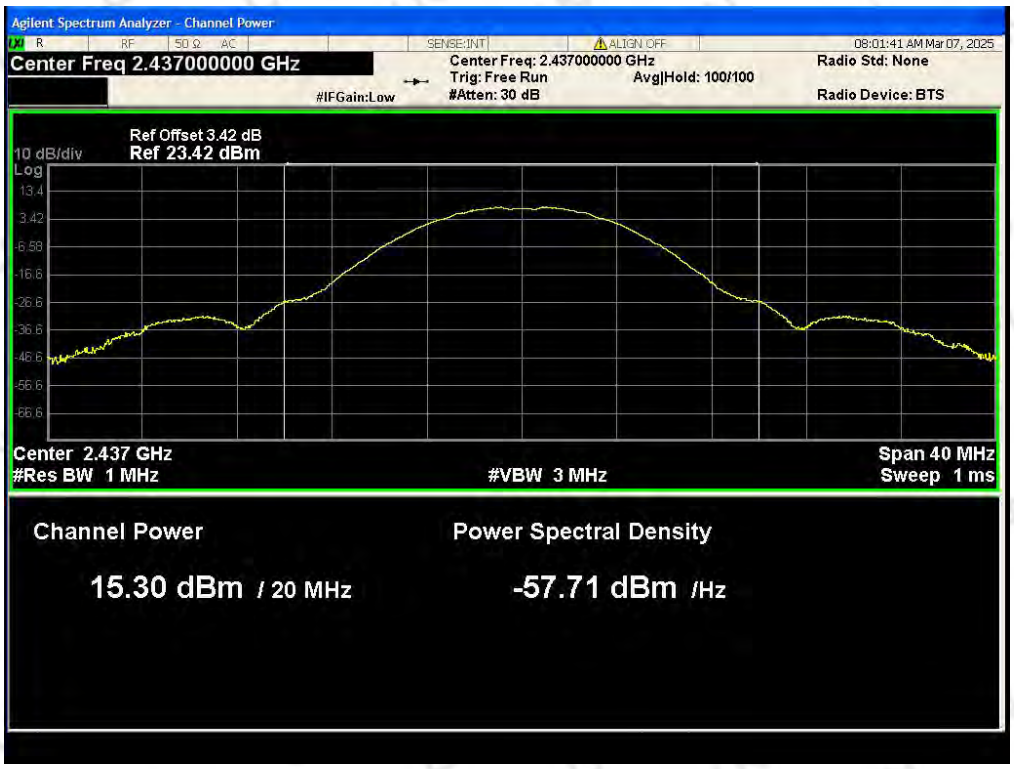
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11b	2412	Ant 2	16.22	0	16.22	30	Pass
NVNT	802.11b	2437	Ant 2	15.30	0	15.30	30	Pass
NVNT	802.11b	2462	Ant 2	15.63	0	15.63	30	Pass
NVNT	802.11g	2412	Ant 2	20.12	0	20.12	30	Pass
NVNT	802.11g	2437	Ant 2	17.86	0	17.86	30	Pass
NVNT	802.11g	2462	Ant 2	18.58	0	18.58	30	Pass
NVNT	802.11n(HT20)	2412	Ant 2	17.48	0	17.48	30	Pass
NVNT	802.11n(HT20)	2437	Ant 2	20.66	0	20.66	30	Pass
NVNT	802.11n(HT20)	2462	Ant 2	18.47	0	18.47	30	Pass

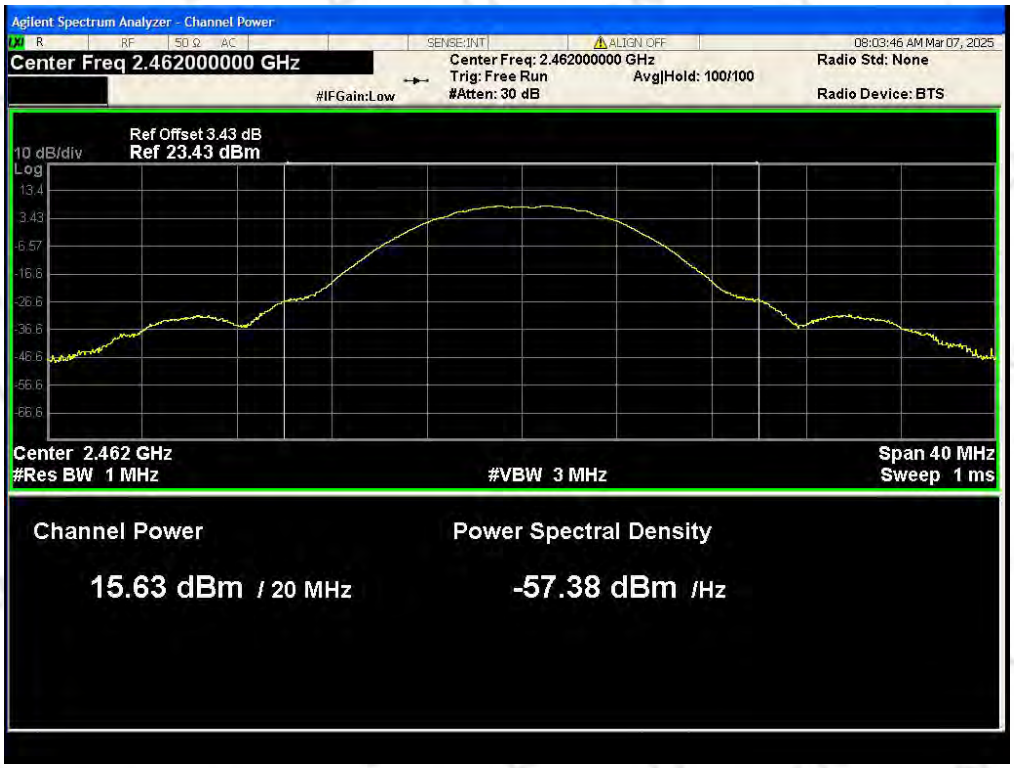
Power NVNT 802.11b 2412MHz Ant2



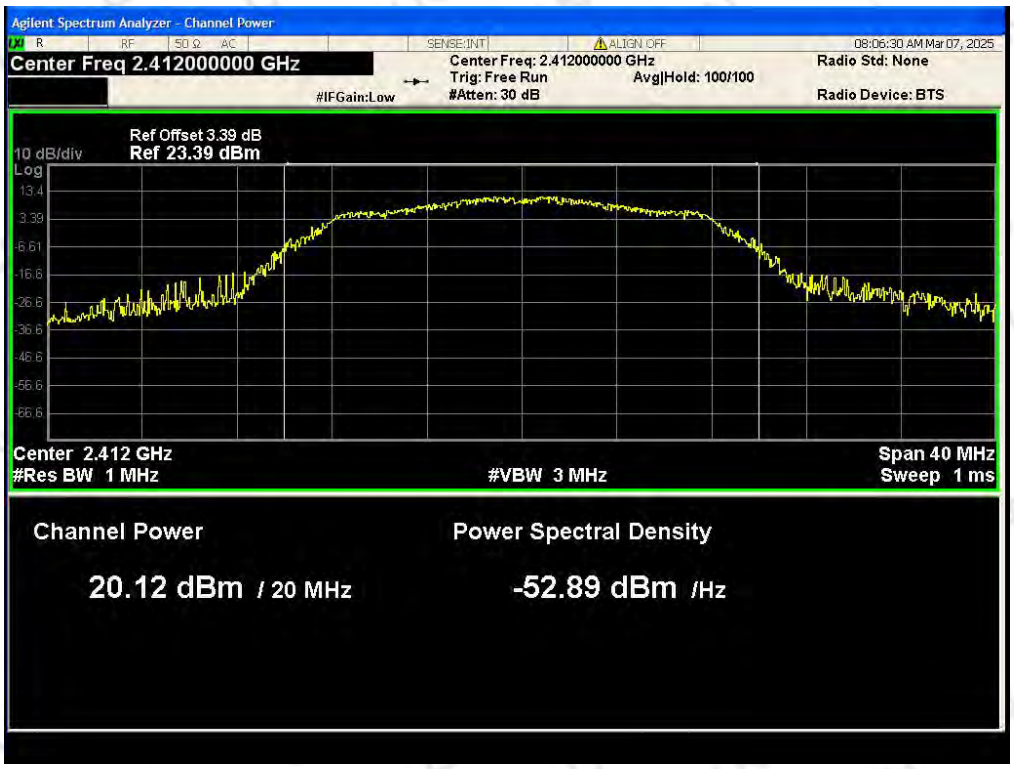
Power NVNT 802.11b 2437MHz Ant2



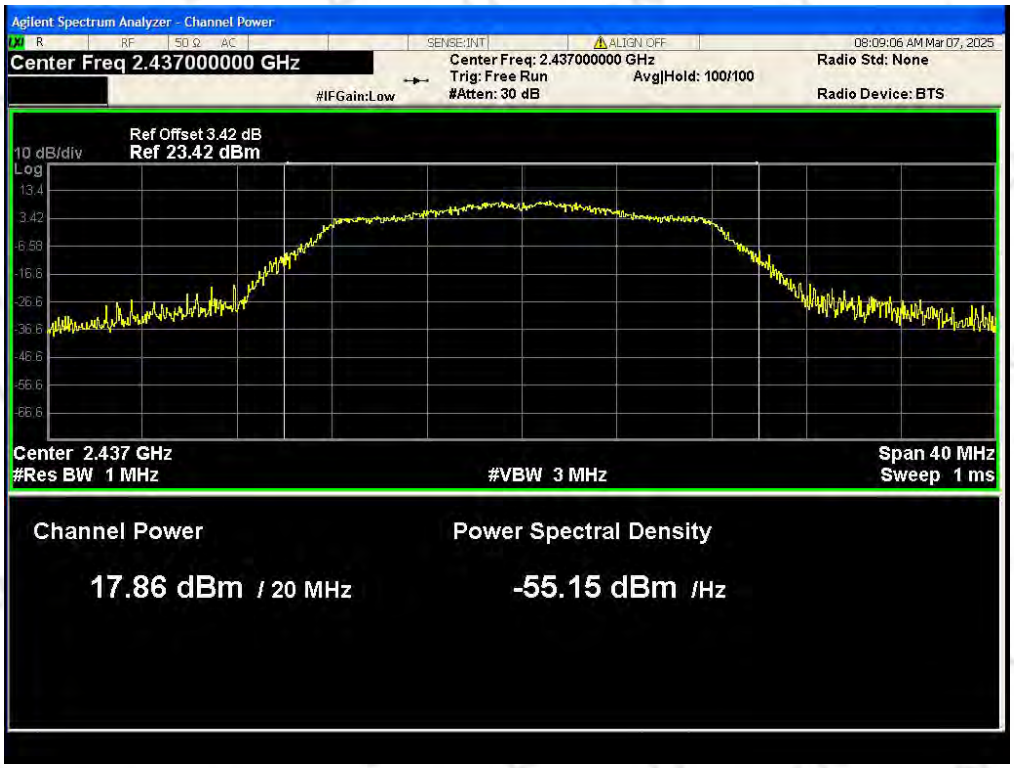
Power NVNT 802.11b 2462MHz Ant2



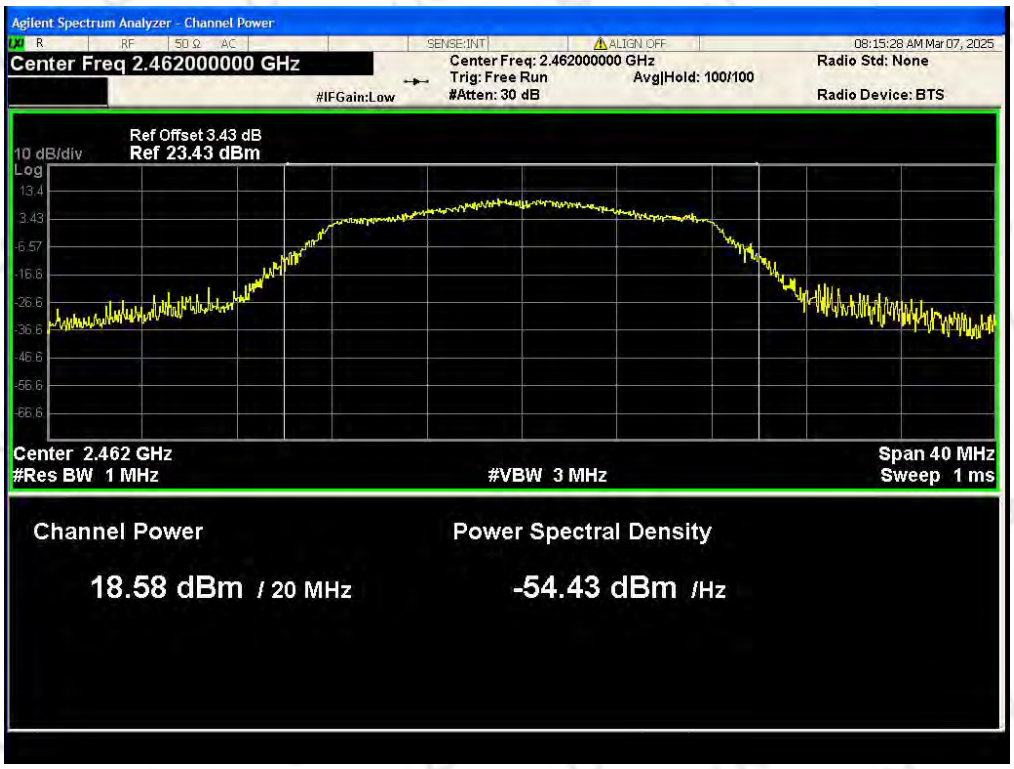
Power NVNT 802.11g 2412MHz Ant2



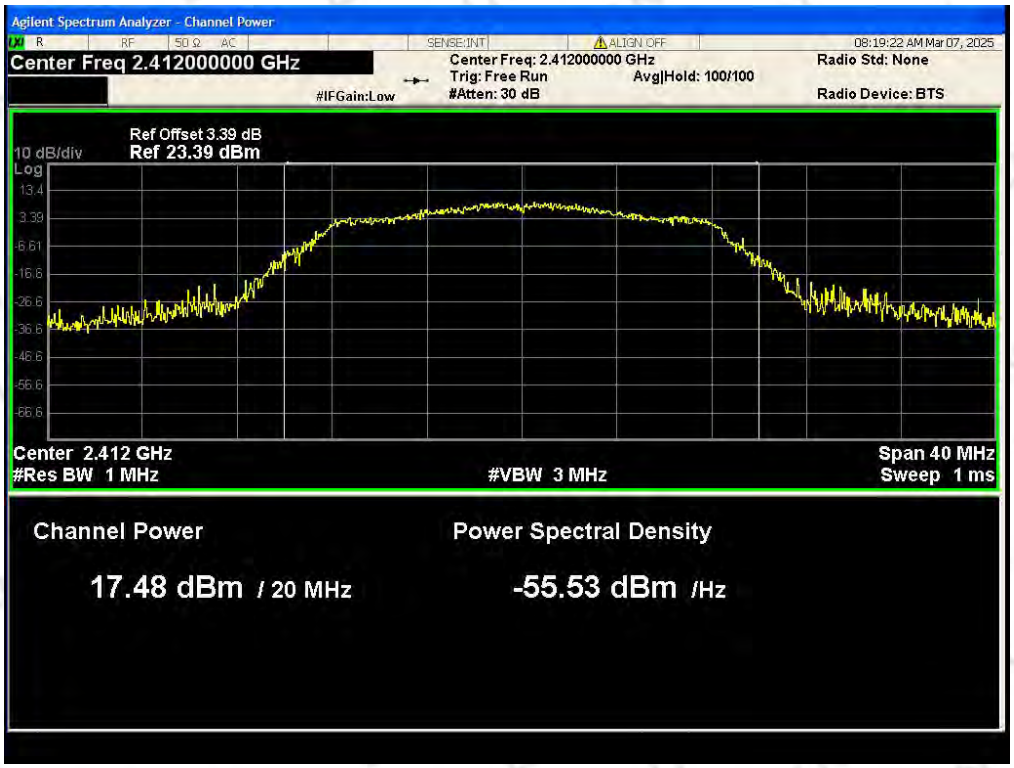
Power NVNT 802.11g 2437MHz Ant2



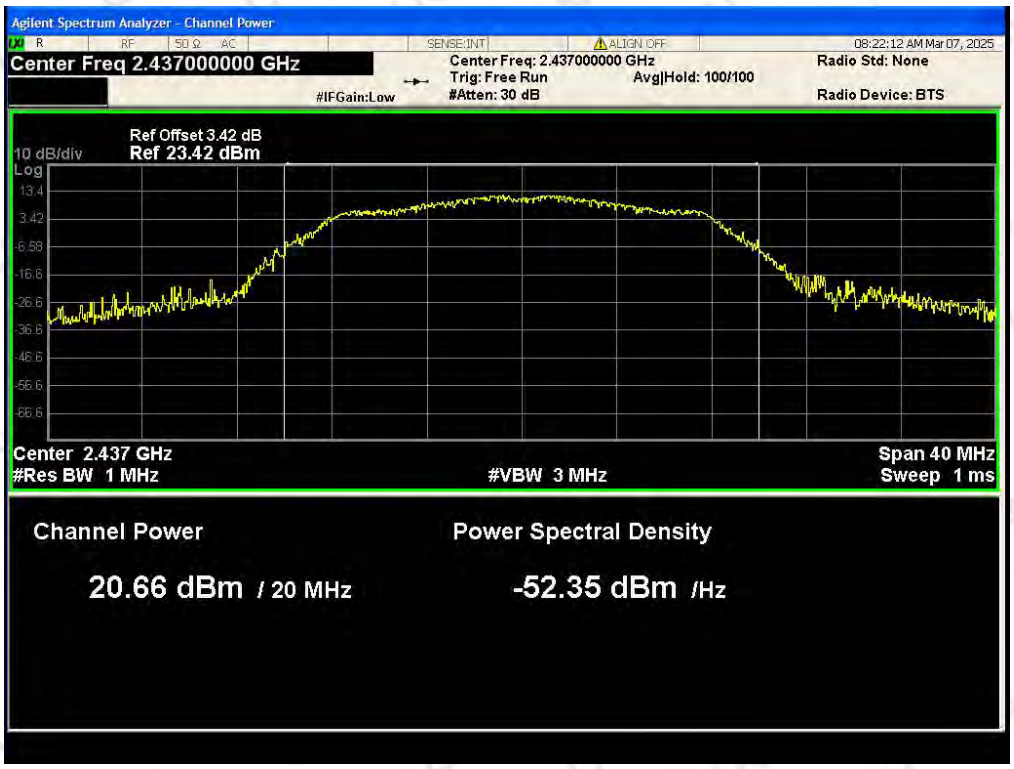
Power NVNT 802.11g 2462MHz Ant2



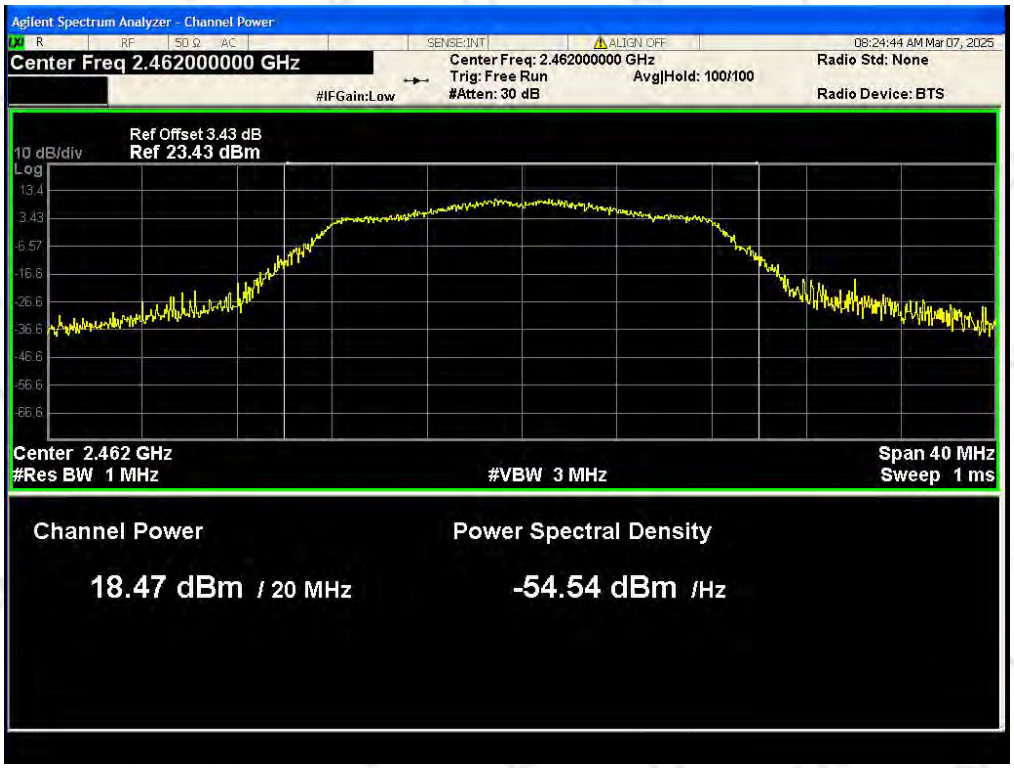
Power NVNT 802.11n(HT20) 2412MHz Ant2



Power NVNT 802.11n(HT20) 2437MHz Ant2



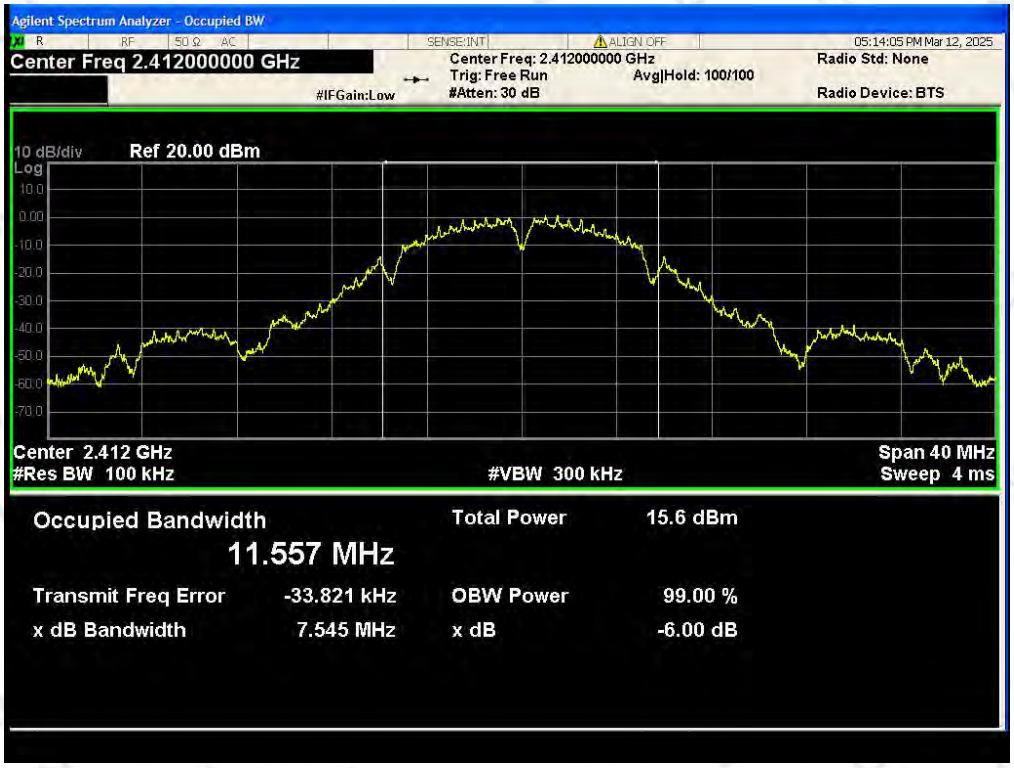
Power NVNT 802.11n(HT20) 2462MHz Ant2



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11b	2412	Ant 2	11.557	7.545	0.5	Pass
NVNT	802.11b	2437	Ant 2	11.397	7.472	0.5	Pass
NVNT	802.11b	2462	Ant 2	11.165	7.103	0.5	Pass
NVNT	802.11g	2412	Ant 2	16.290	13.904	0.5	Pass
NVNT	802.11g	2437	Ant 2	16.294	10.121	0.5	Pass
NVNT	802.11g	2462	Ant 2	16.199	15.157	0.5	Pass
NVNT	802.11n(HT20)	2412	Ant 2	17.583	17.300	0.5	Pass
NVNT	802.11n(HT20)	2437	Ant 2	17.419	14.948	0.5	Pass
NVNT	802.11n(HT20)	2462	Ant 2	17.465	12.500	0.5	Pass

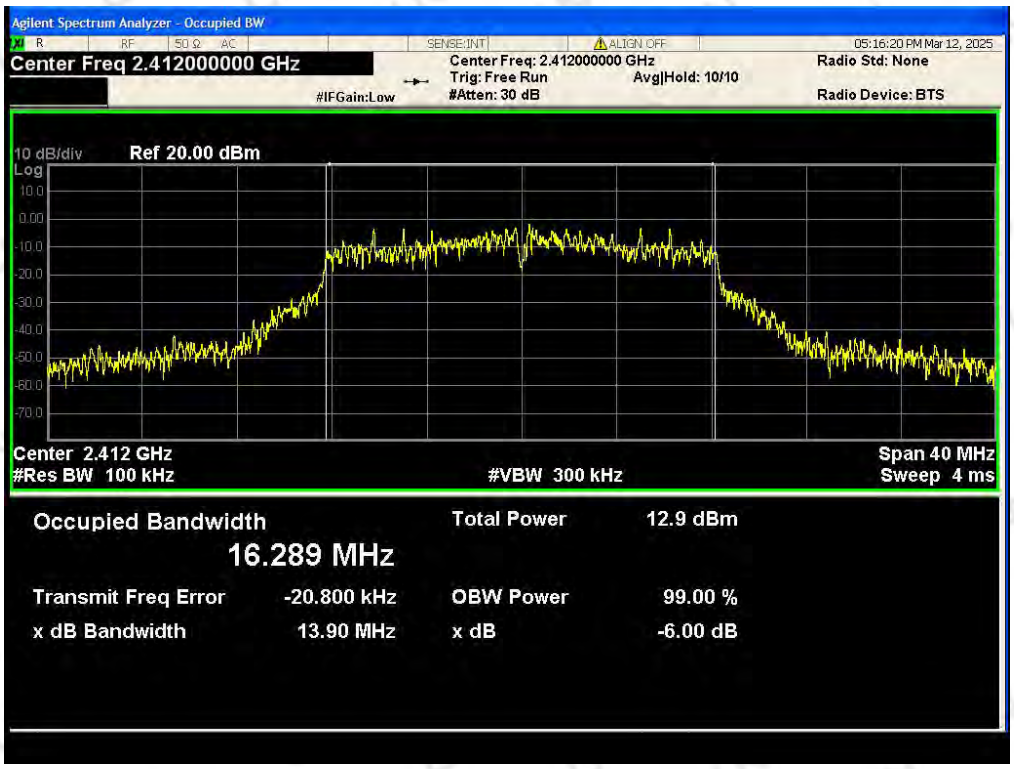
OBW NVNT 802.11b 2412MHz Ant2



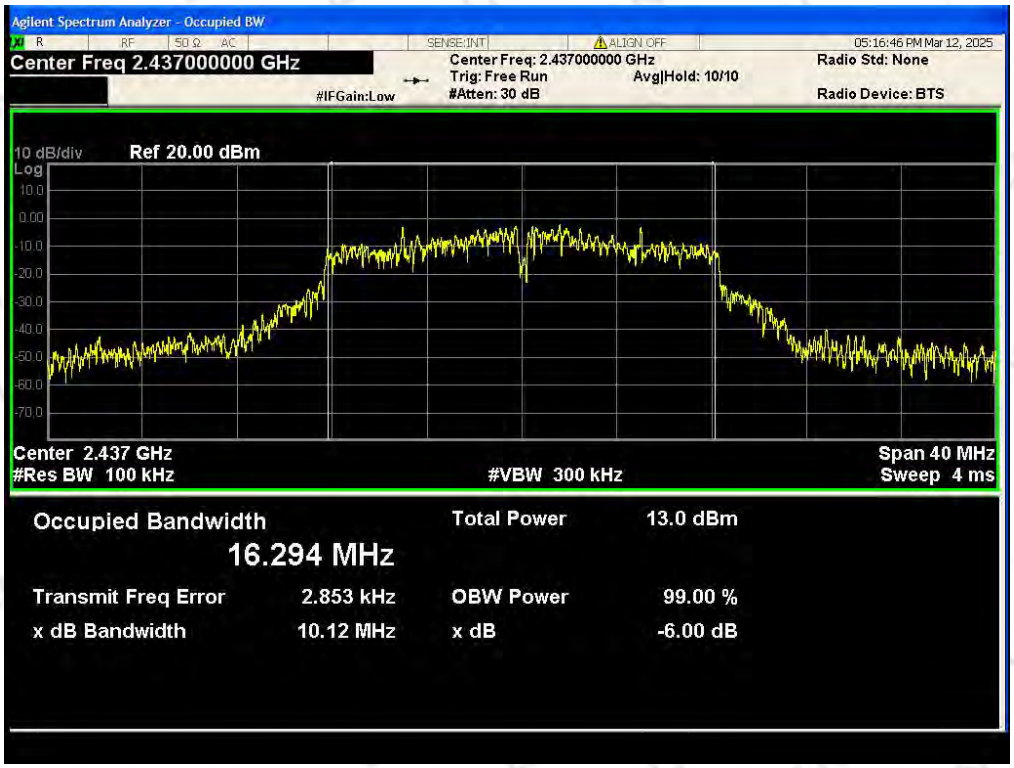
OBW NVNT 802.11b 2437MHz Ant2

OBW NVNT 802.11b 2462MHz Ant2

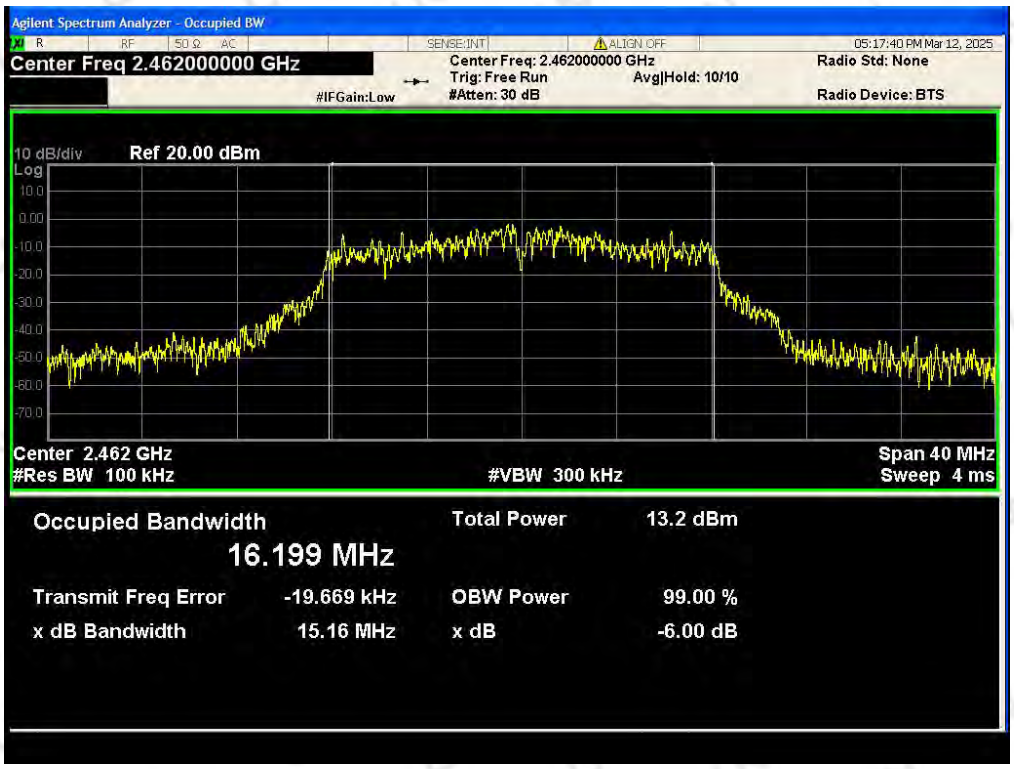
OBW NVNT 802.11g 2412MHz Ant2



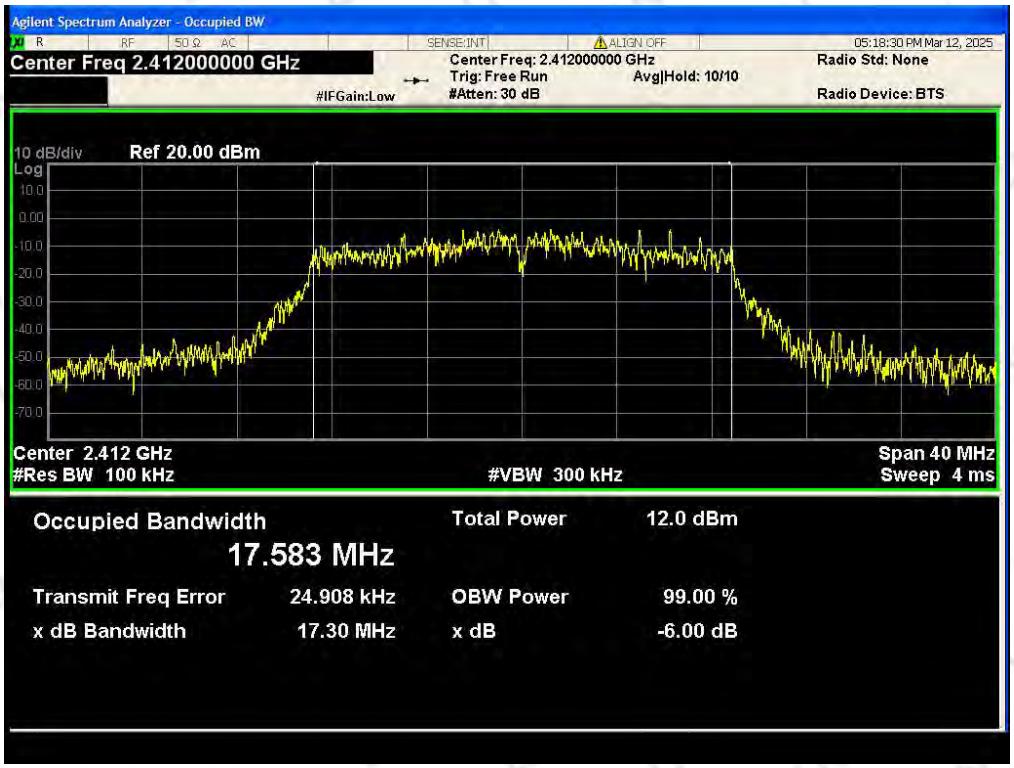
OBW NVNT 802.11g 2437MHz Ant2



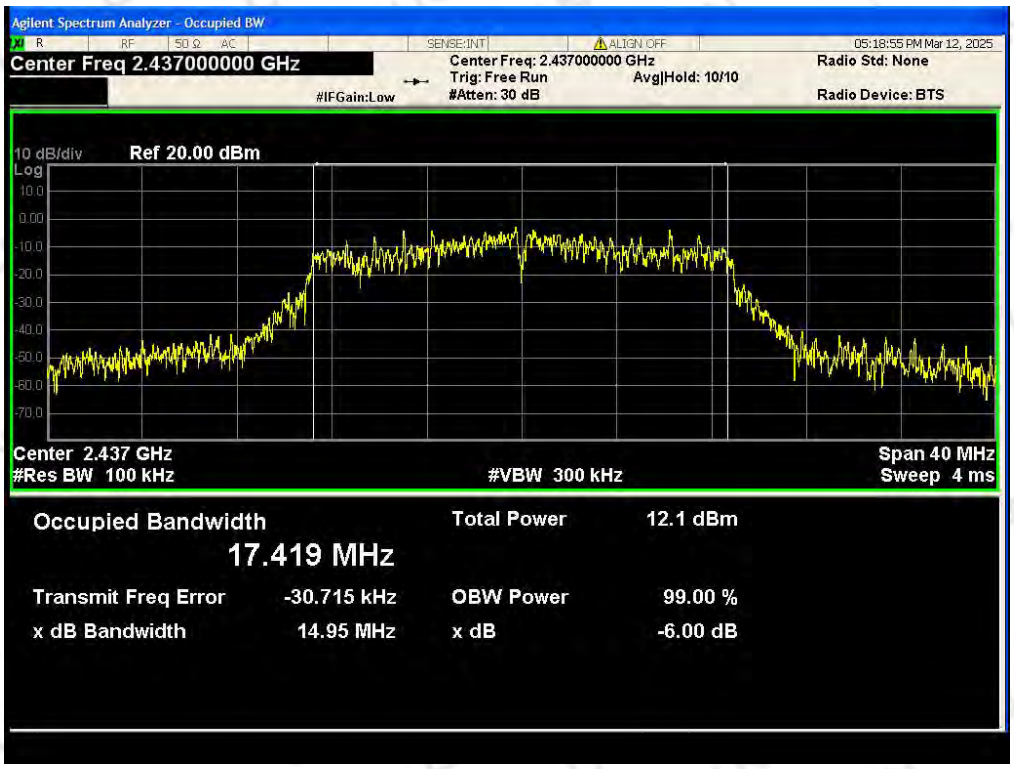
OBW NVNT 802.11g 2462MHz Ant2



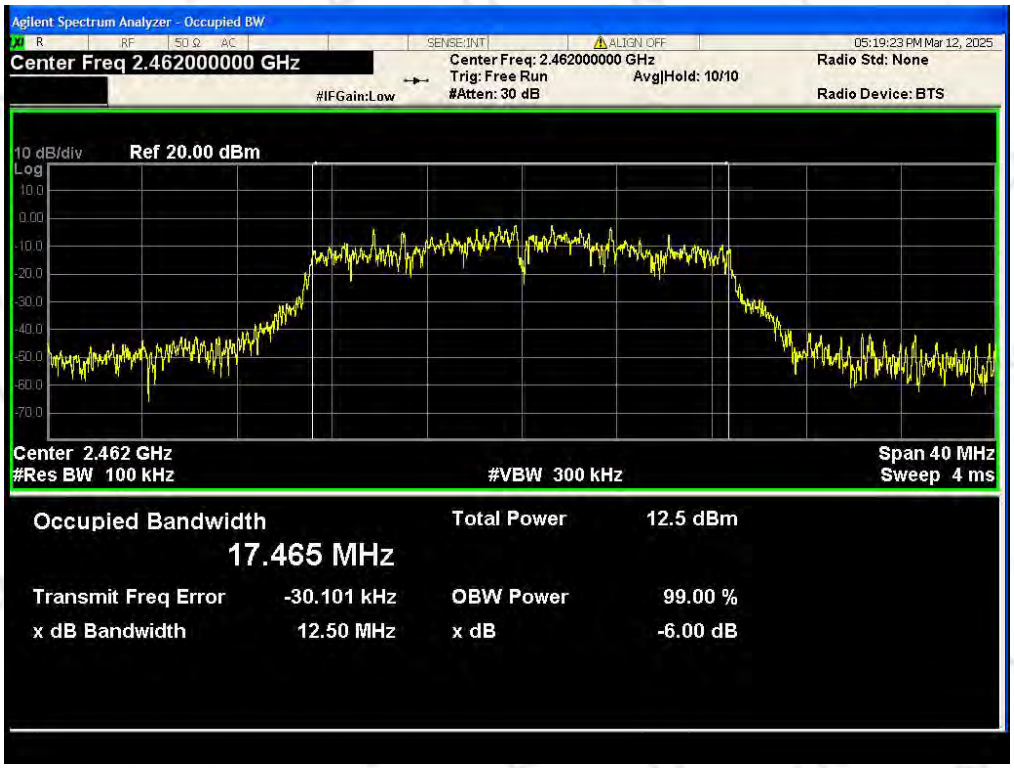
OBW NVNT 802.11n(HT20) 2412MHz Ant2



OBW NVNT 802.11n(HT20) 2437MHz Ant2



OBW NVNT 802.11n(HT20) 2462MHz Ant2



Maximum Power Spectral Density Level

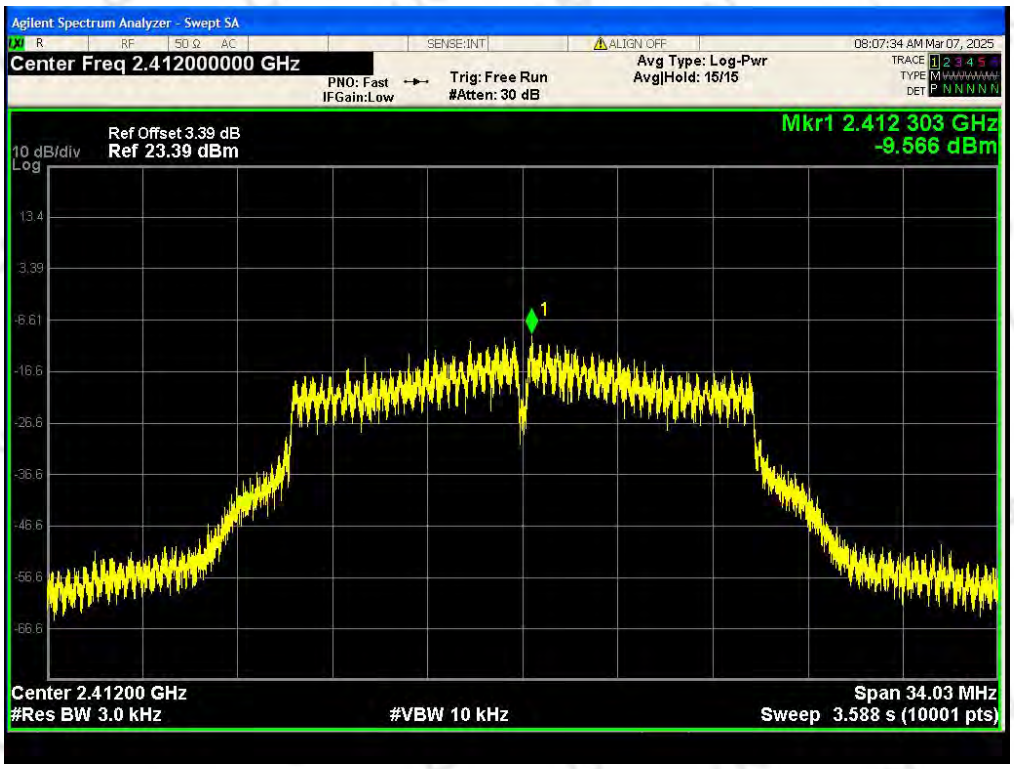
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	802.11b	2412	Ant 2	-8.357	0	-8.357	8	Pass
NVNT	802.11b	2437	Ant 2	-7.352	0	-7.352	8	Pass
NVNT	802.11b	2462	Ant 2	-6.942	0	-6.942	8	Pass
NVNT	802.11g	2412	Ant 2	-9.566	0	-9.566	8	Pass
NVNT	802.11g	2437	Ant 2	-9.078	0	-9.078	8	Pass
NVNT	802.11g	2462	Ant 2	-8.283	0	-8.283	8	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-9.504	0	-9.504	8	Pass
NVNT	802.11n(HT20)	2437	Ant 2	-9.046	0	-9.046	8	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-7.9	0	-7.9	8	Pass

PSD NVNT 802.11b 2412MHz Ant2

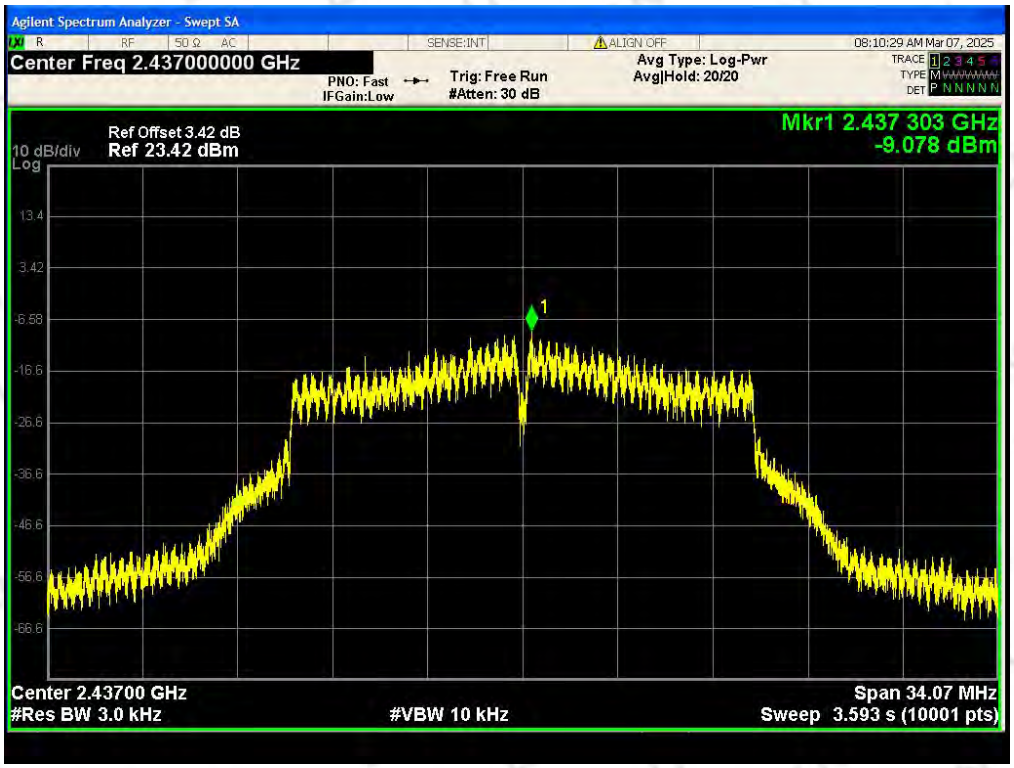
PSD NVNT 802.11b 2437MHz Ant2

PSD NVNT 802.11b 2462MHz Ant2

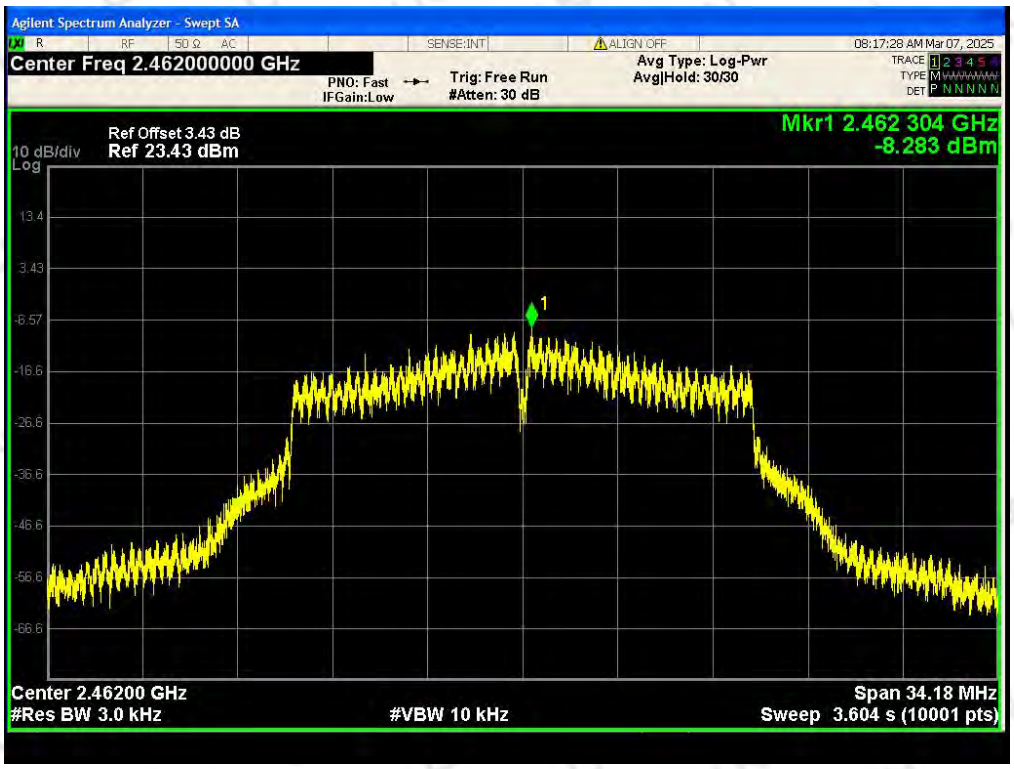
PSD NVNT 802.11g 2412MHz Ant2



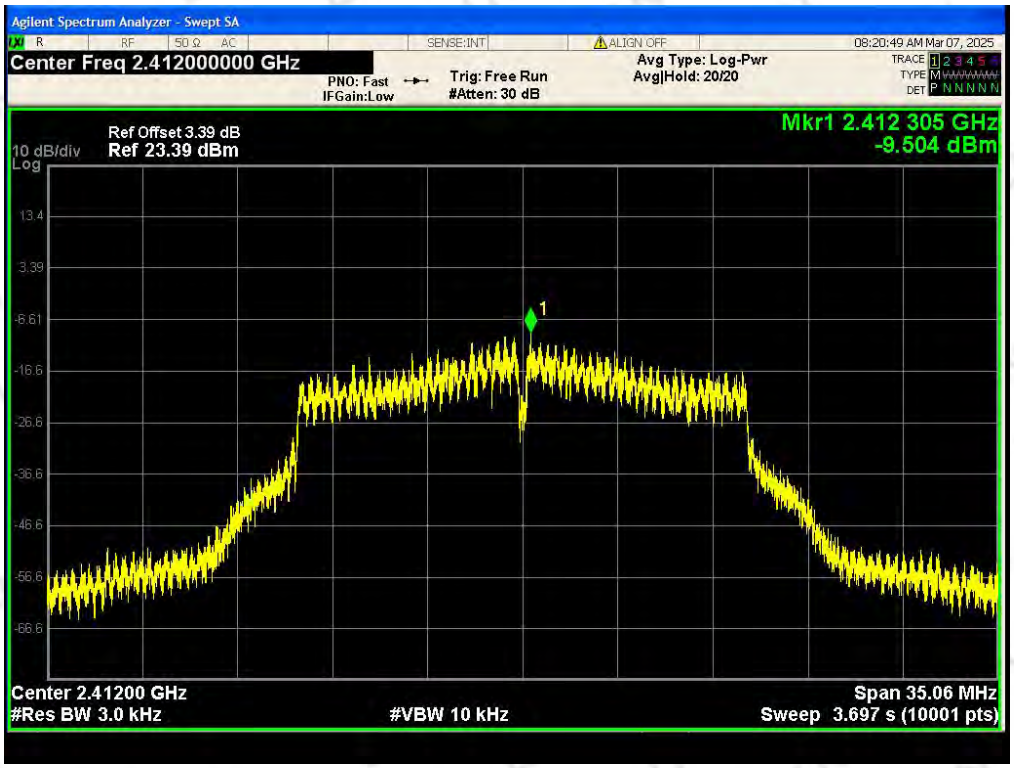
PSD NVNT 802.11g 2437MHz Ant2



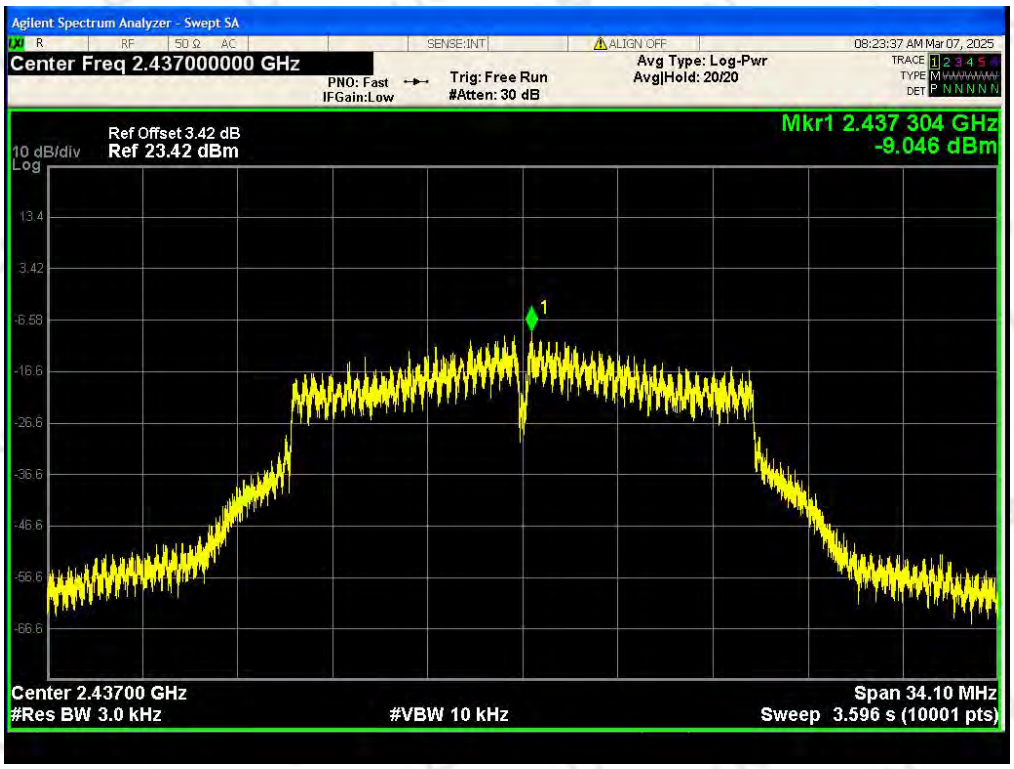
PSD NVNT 802.11g 2462MHz Ant2



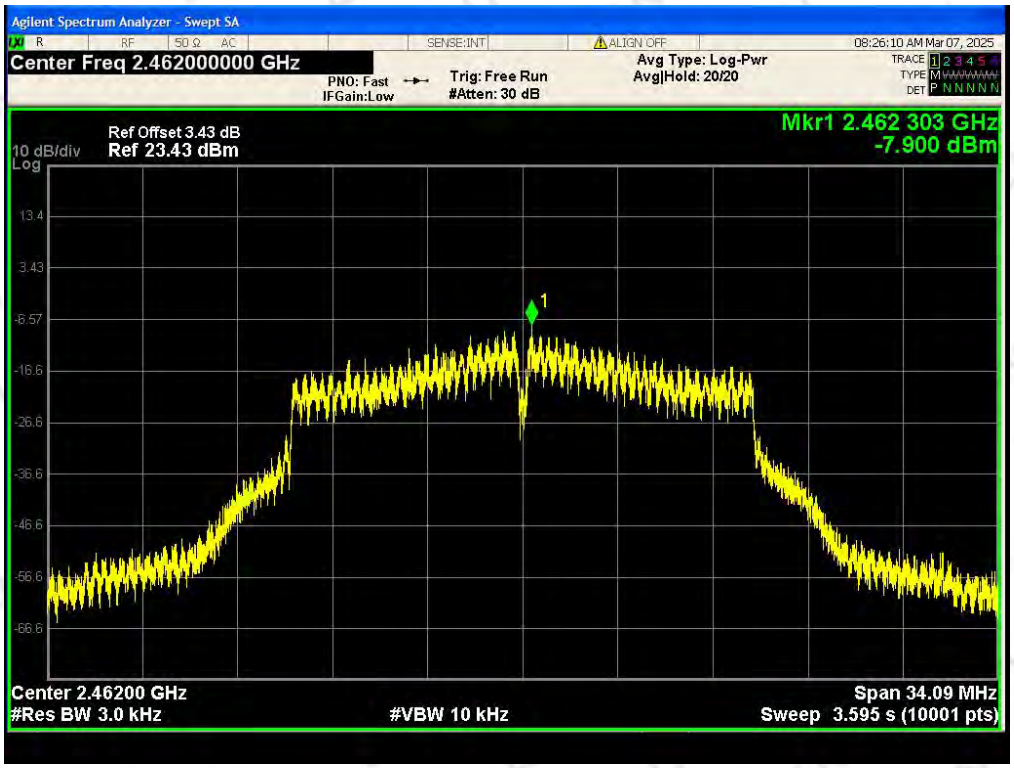
PSD NVNT 802.11n(HT20) 2412MHz Ant2



PSD NVNT 802.11n(HT20) 2437MHz Ant2



PSD NVNT 802.11n(HT20) 2462MHz Ant2



Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11b	2412	Ant 2	-59.524	-30	Pass
NVNT	802.11b	2462	Ant 2	-55.004	-30	Pass
NVNT	802.11g	2412	Ant 2	-45.496	-30	Pass
NVNT	802.11g	2462	Ant 2	-43.751	-30	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-46.692	-30	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-45.446	-30	Pass

Band Edge NVNT 802.11b 2412MHz Ant2 Ref

Band Edge NVNT 802.11b 2412MHz Ant2 Emission

Band Edge NVNT 802.11b 2462MHz Ant2 Ref

Band Edge NVNT 802.11b 2462MHz Ant2 Emission

Band Edge NVNT 802.11g 2412MHz Ant2 Ref

Band Edge NVNT 802.11g 2412MHz Ant2 Emission

Band Edge NVNT 802.11g 2462MHz Ant2 Ref

Band Edge NVNT 802.11g 2462MHz Ant2 Emission

Band Edge NVNT 802.11n(HT20) 2412MHz Ant2 Ref

Band Edge NVNT 802.11n(HT20) 2412MHz Ant2 Emission

Band Edge NVNT 802.11n(HT20) 2462MHz Ant2 Ref

Band Edge NVNT 802.11n(HT20) 2462MHz Ant2 Emission

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11b	2412	Ant 2	-46.853	-30	Pass
NVNT	802.11b	2437	Ant 2	-47.08	-30	Pass
NVNT	802.11b	2462	Ant 2	-47.766	-30	Pass
NVNT	802.11g	2412	Ant 2	-42.82	-30	Pass
NVNT	802.11g	2437	Ant 2	-43.323	-30	Pass
NVNT	802.11g	2462	Ant 2	-43.781	-30	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-42.85	-30	Pass
NVNT	802.11n(HT20)	2437	Ant 2	-42.777	-30	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-43.211	-30	Pass

Tx. Spurious NVNT 802.11b 2412MHz Ant2 Ref

Tx. Spurious NVNT 802.11b 2412MHz Ant2 Emission

Tx. Spurious NVNT 802.11b 2437MHz Ant2 Ref

Tx. Spurious NVNT 802.11b 2437MHz Ant2 Emission

Tx. Spurious NVNT 802.11b 2462MHz Ant2 Ref

Tx. Spurious NVNT 802.11b 2462MHz Ant2 Emission

Tx. Spurious NVNT 802.11g 2412MHz Ant2 Ref

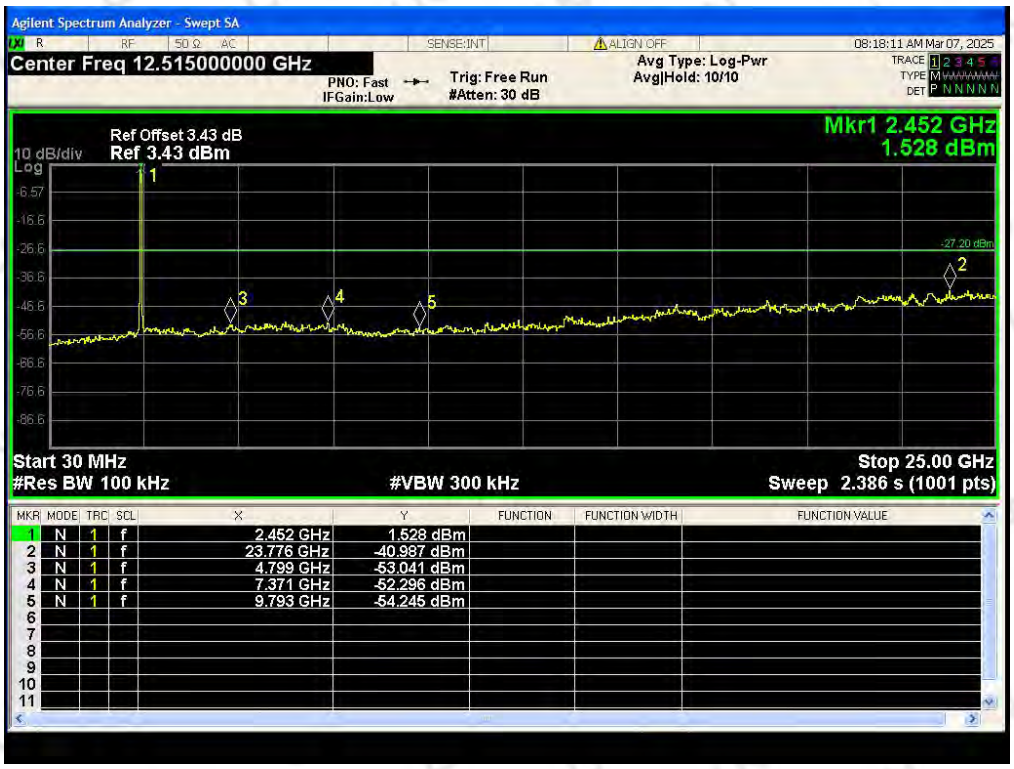
Tx. Spurious NVNT 802.11g 2412MHz Ant2 Emission

Tx. Spurious NVNT 802.11g 2437MHz Ant2 Ref

Tx. Spurious NVNT 802.11g 2437MHz Ant2 Emission

Tx. Spurious NVNT 802.11g 2462MHz Ant2 Ref

Tx. Spurious NVNT 802.11g 2462MHz Ant2 Emission



Tx. Spurious NVNT 802.11n(HT20) 2412MHz Ant2 Ref

Tx. Spurious NVNT 802.11n(HT20) 2412MHz Ant2 Emission

Tx. Spurious NVNT 802.11n(HT20) 2437MHz Ant2 Ref

Tx. Spurious NVNT 802.11n(HT20) 2437MHz Ant2 Emission

Tx. Spurious NVNT 802.11n(HT20) 2462MHz Ant2 Ref

Tx. Spurious NVNT 802.11n(HT20) 2462MHz Ant2 Emission