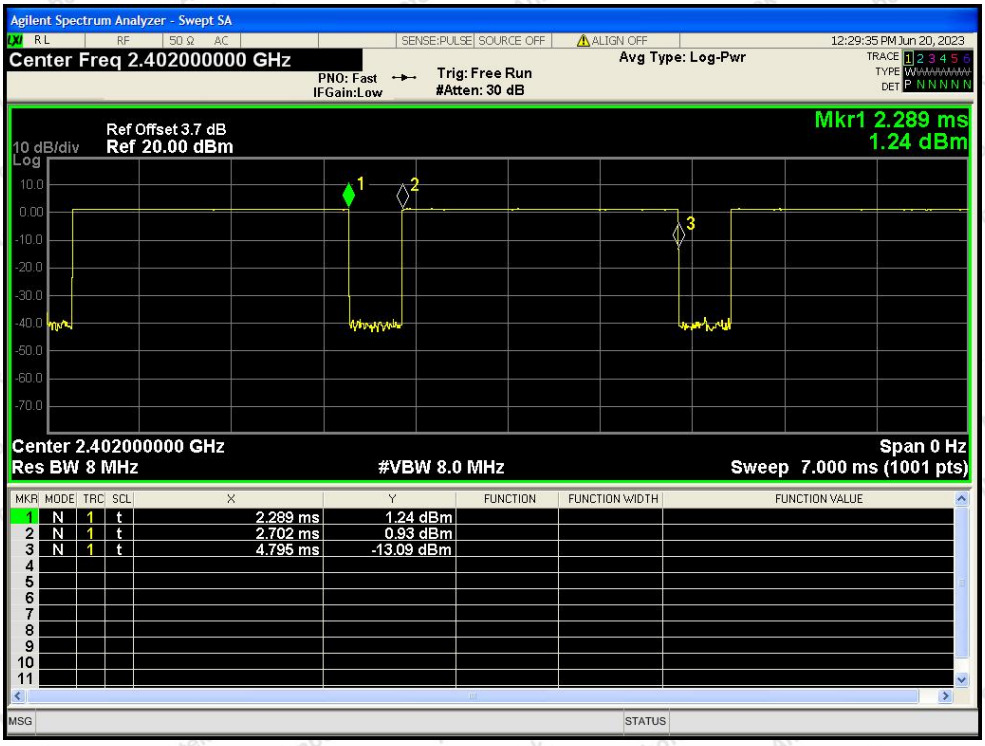
Appendix Test Data

Duty Cycle of Test Signal

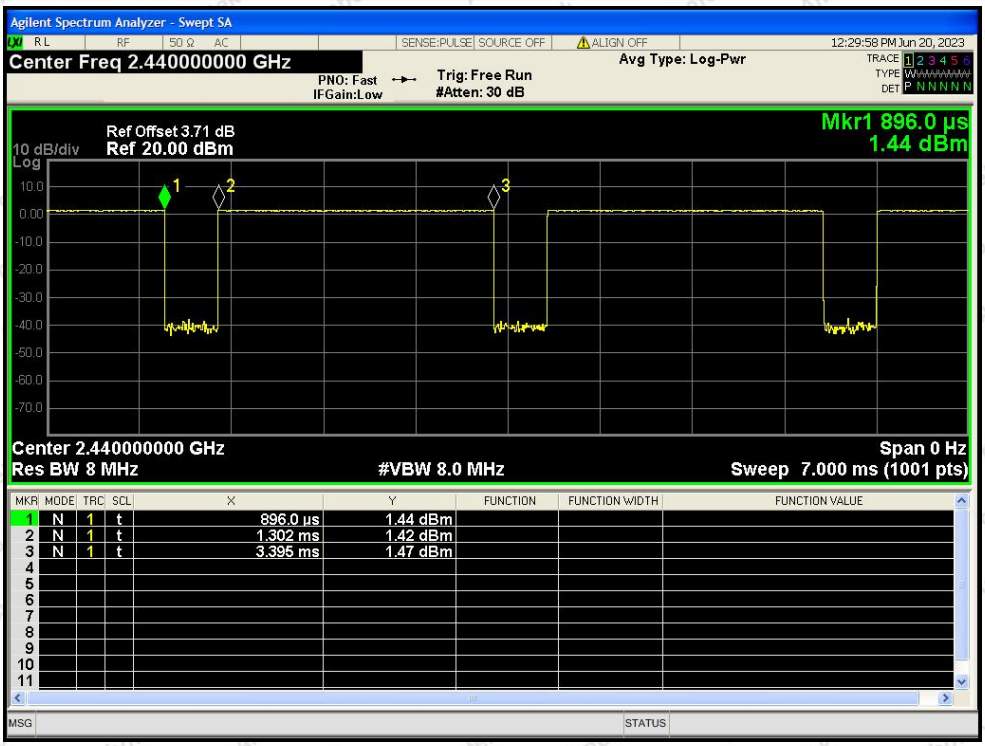
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	83.52	0.78	0.48
NVNT	BLE 1M	2440	Ant1	83.75	0.77	0.48
NVNT	BLE 1M	2480	Ant1	83.75	0.77	0.48

Test Graphs

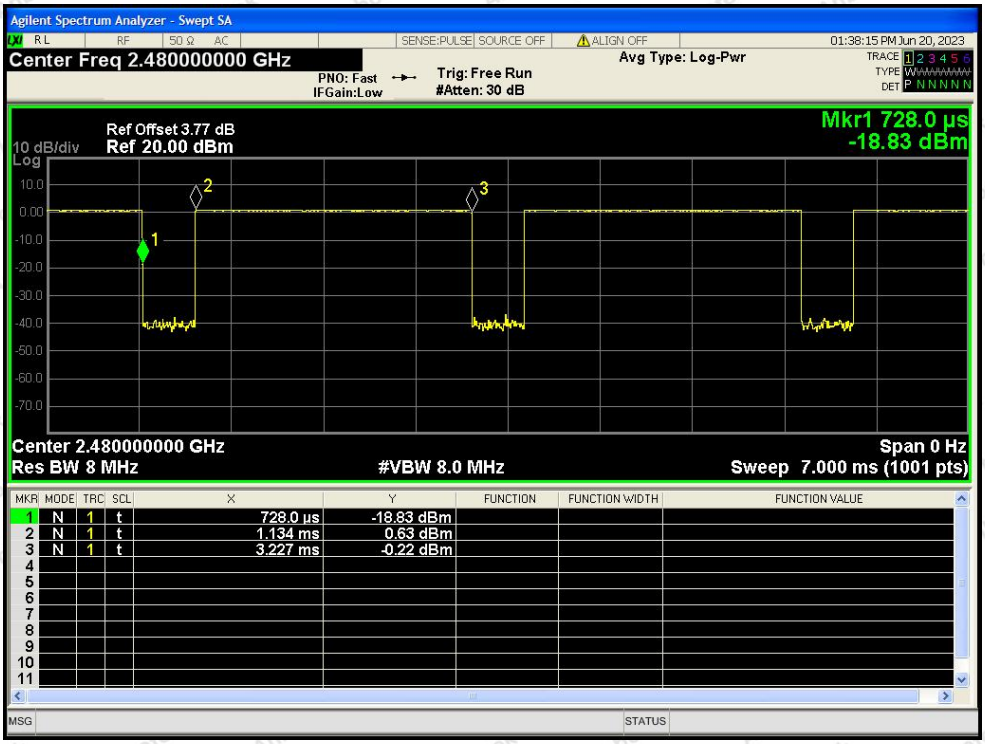
Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



Duty Cycle NVNT BLE 1M 2480MHz Ant1

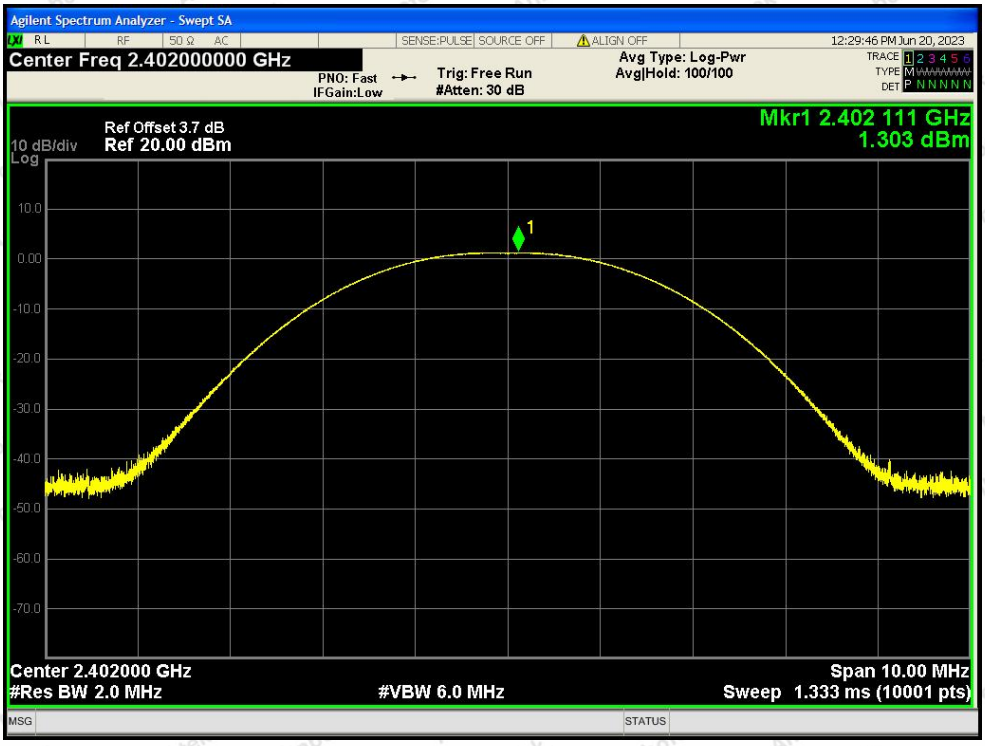


Maximum Peak Conducted Output Power

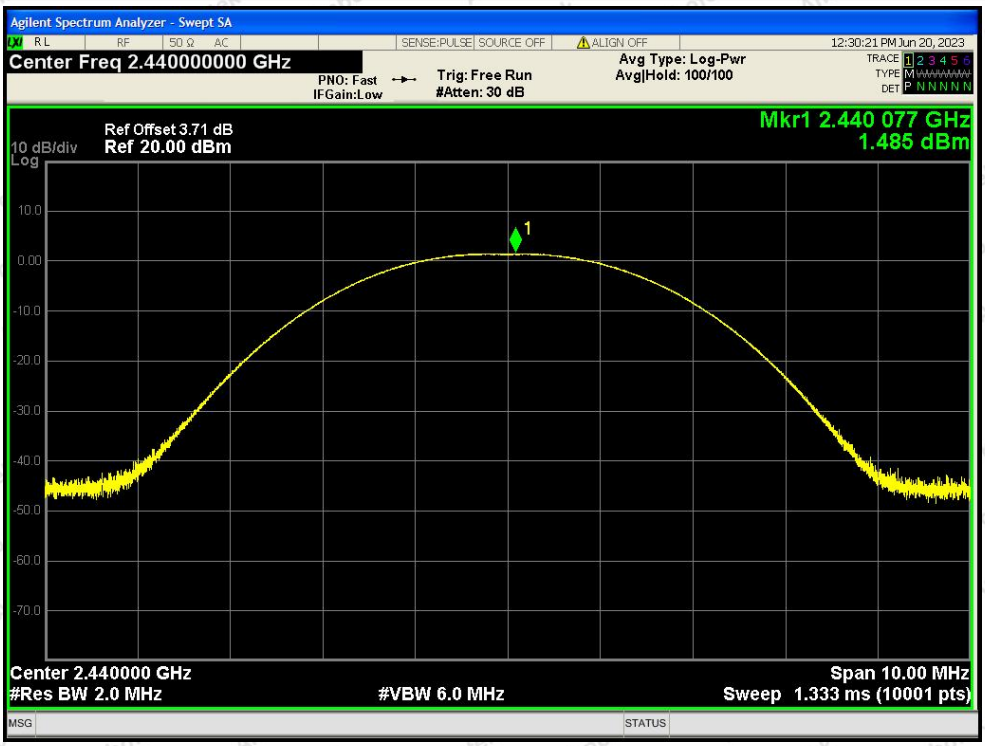
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.3	0	1.3	1.35	30	Pass
NVNT	BLE 1M	2440	Ant1	1.49	0	1.49	1.41	30	Pass
NVNT	BLE 1M	2480	Ant1	0.93	0	0.93	1.24	30	Pass

Test Graphs

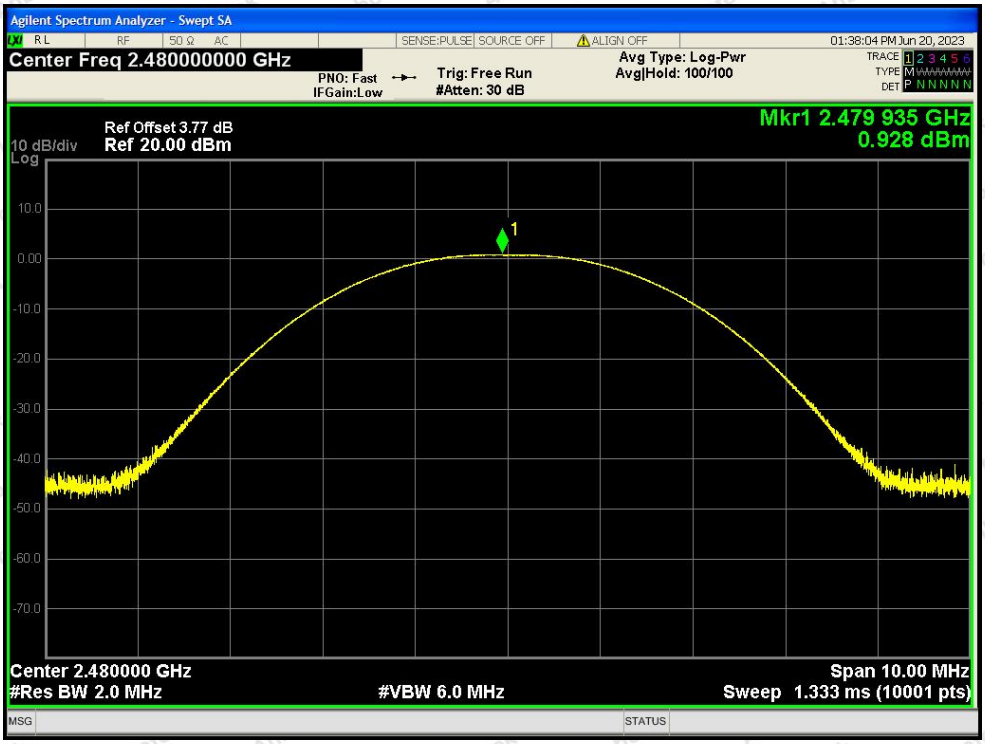
Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



Peak Power NVNT BLE 1M 2480MHz Ant1

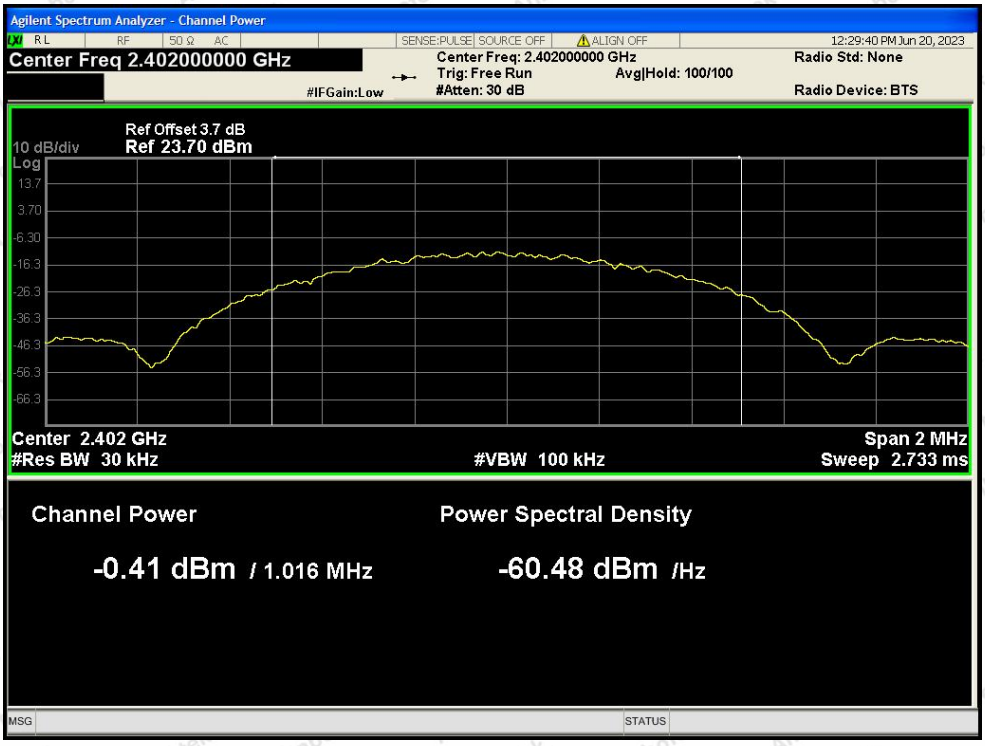


Maximum Average Conducted Output Power

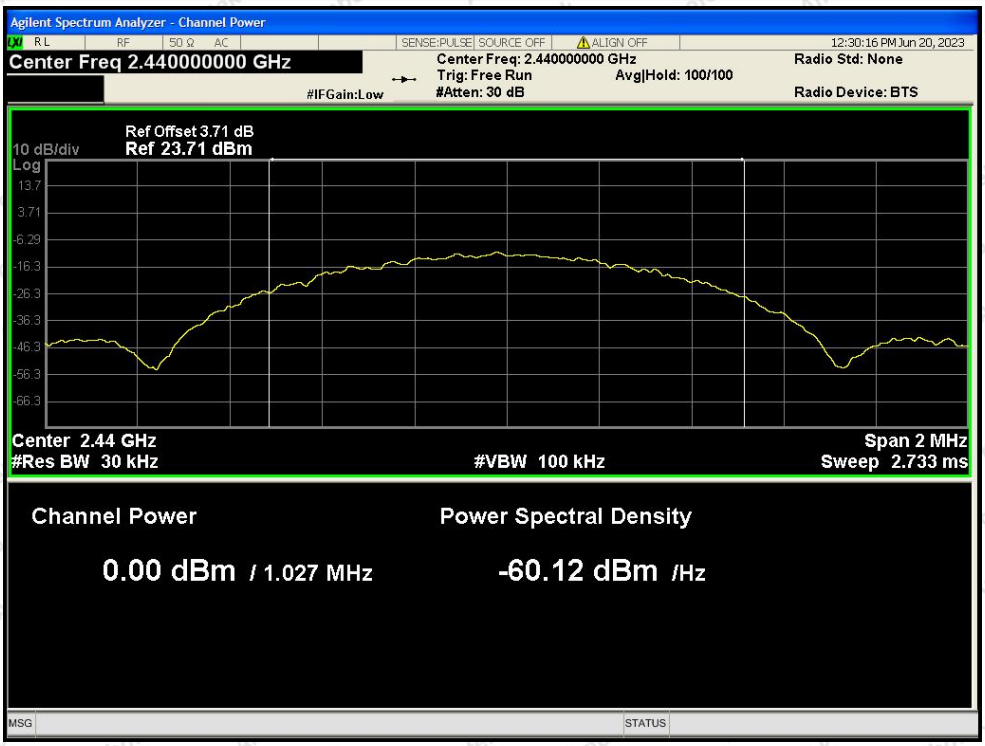
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.41	0.78	0.37	1.09	30	Pass
NVNT	BLE 1M	2440	Ant1	0	0.77	0.77	1.19	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.89	0.77	-0.12	0.97	30	Pass

Test Graphs

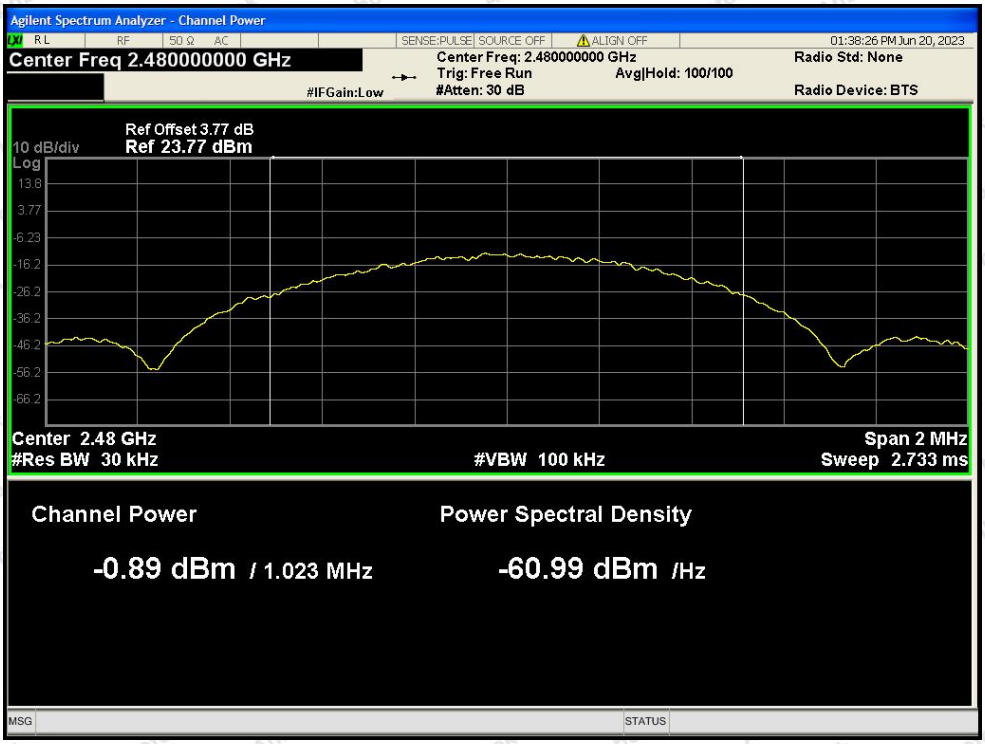
Average Power NVNT BLE 1M 2402MHz Ant1



Average Power NVNT BLE 1M 2440MHz Ant1



Average Power NVNT BLE 1M 2480MHz Ant1

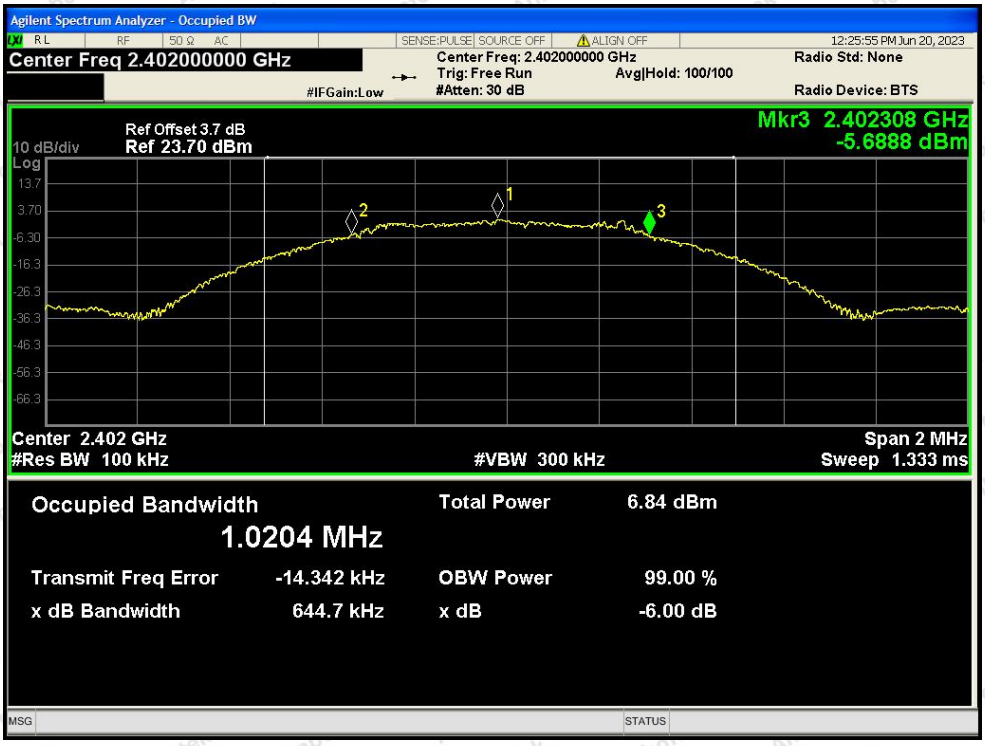


6 dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.645	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.637	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.638	0.5	Pass

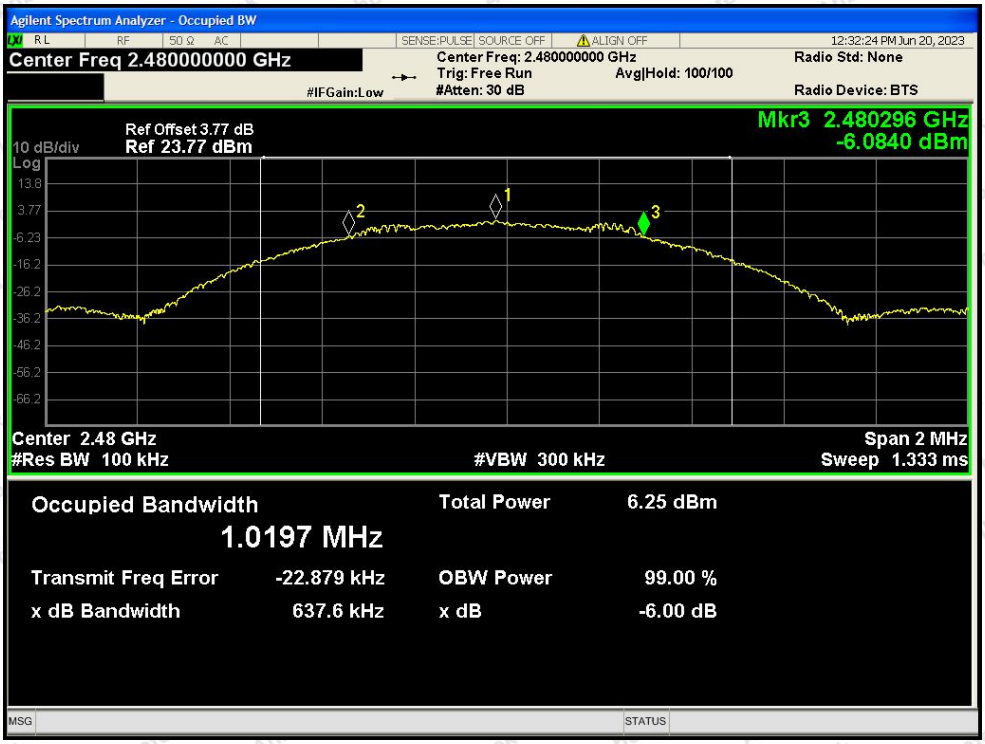
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

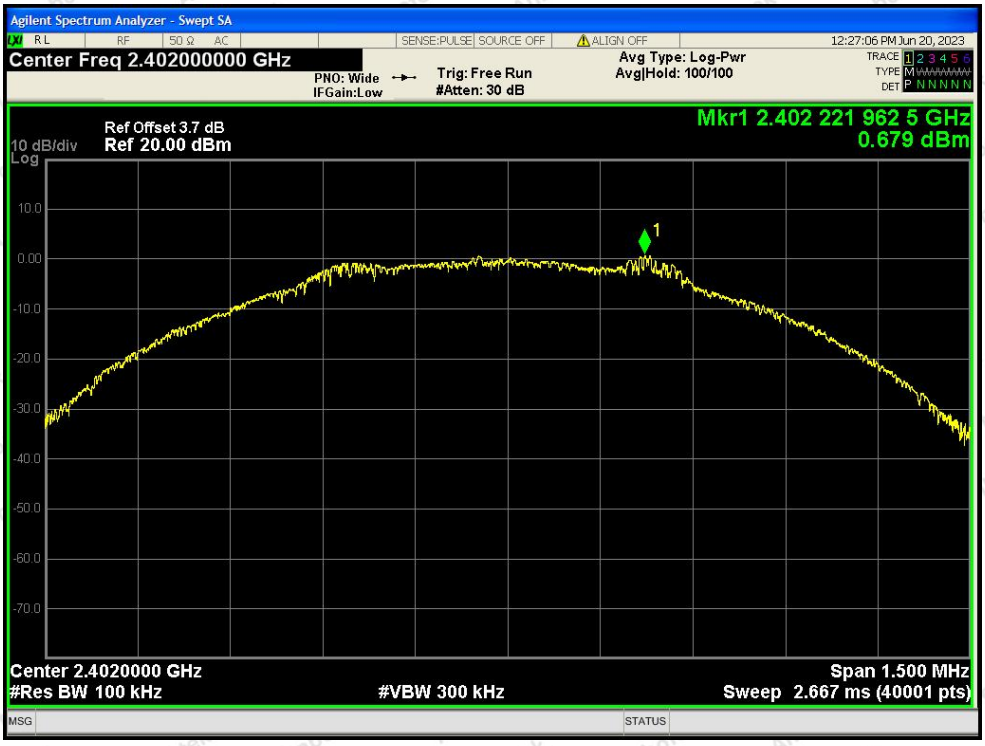


Conducted Spurious Emissions

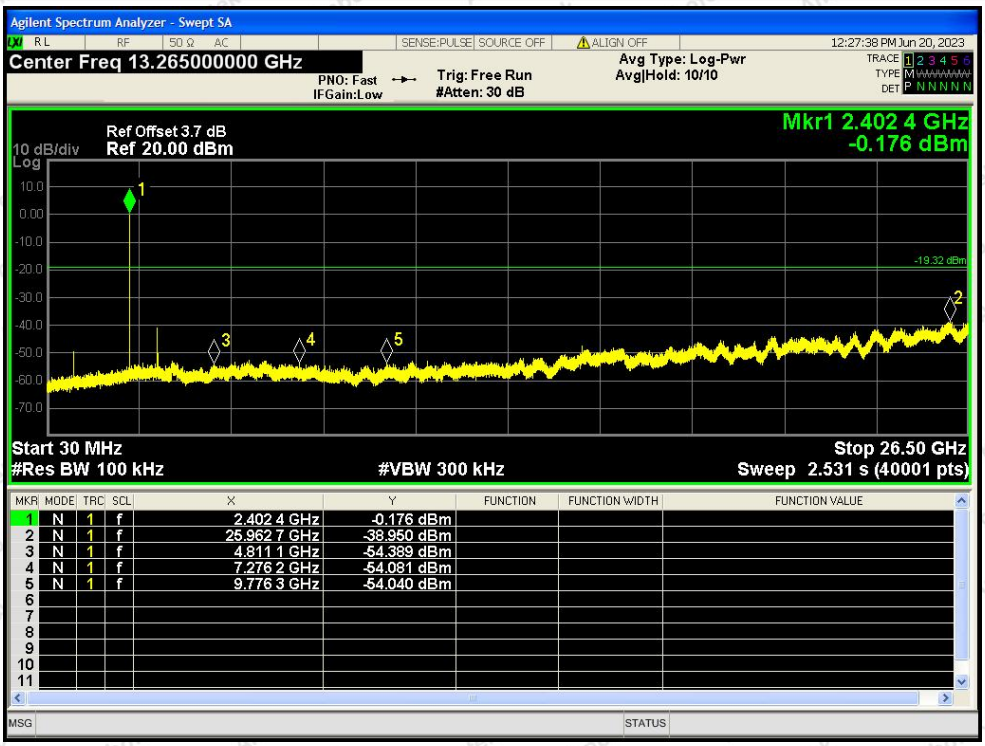
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-39.63	-20	Pass
NVNT	BLE 1M	2440	Ant1	-39.02	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

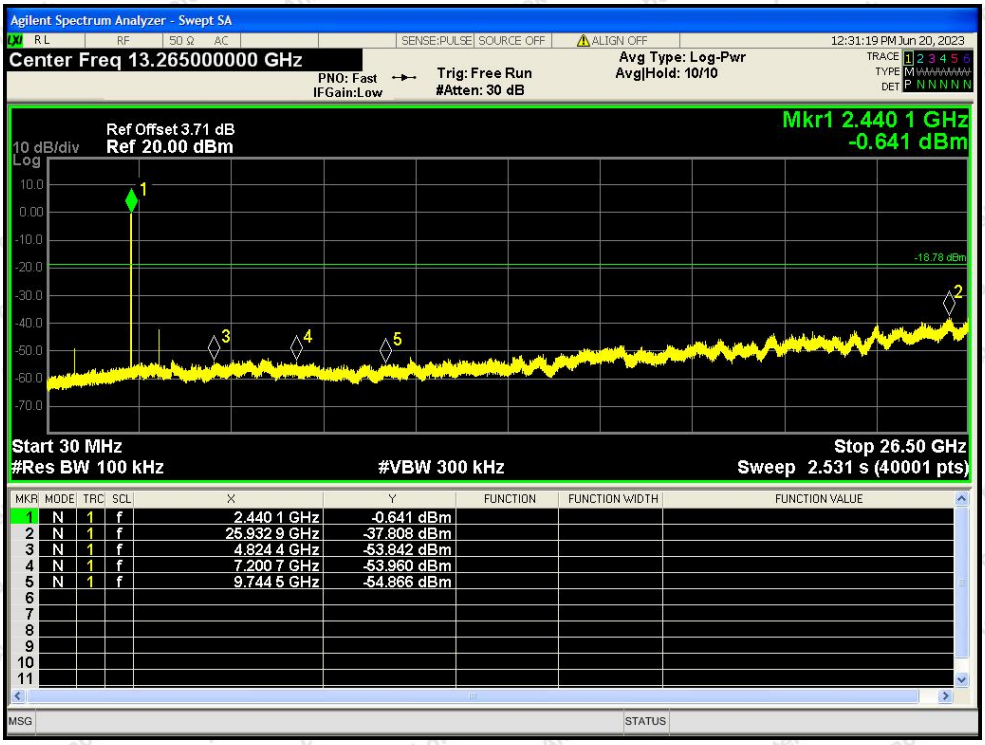


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

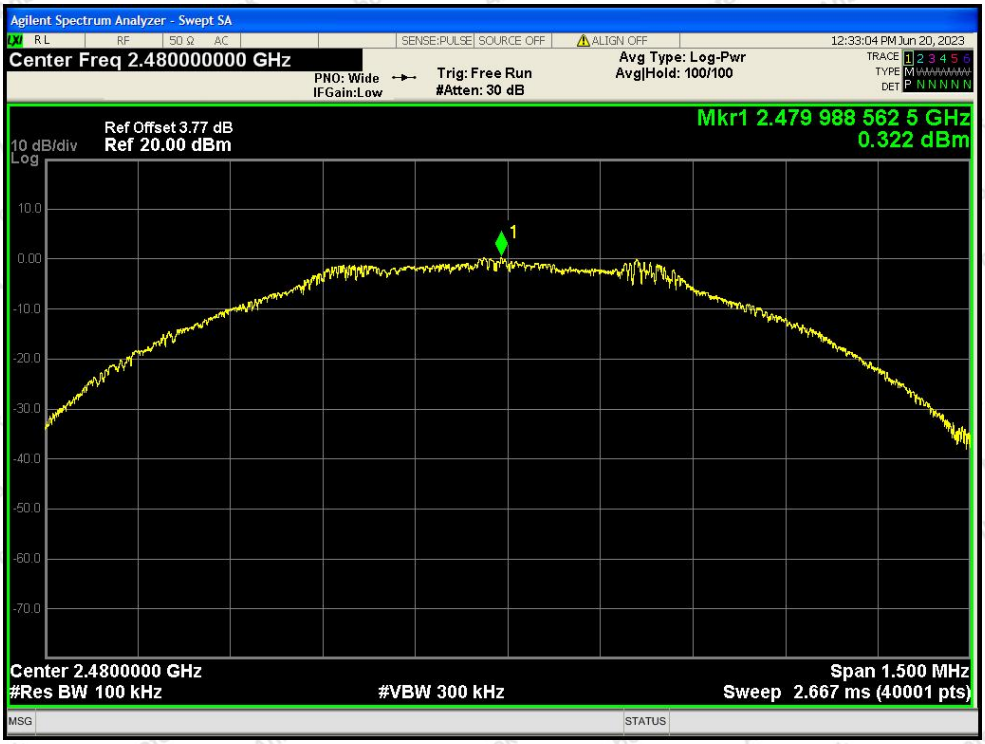


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

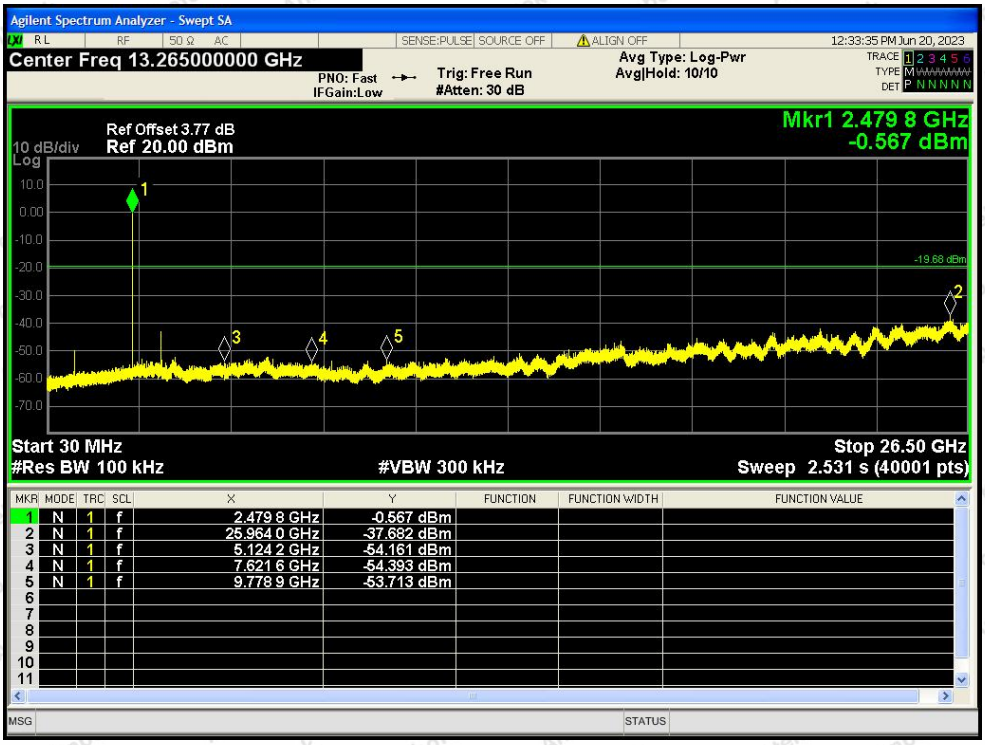
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



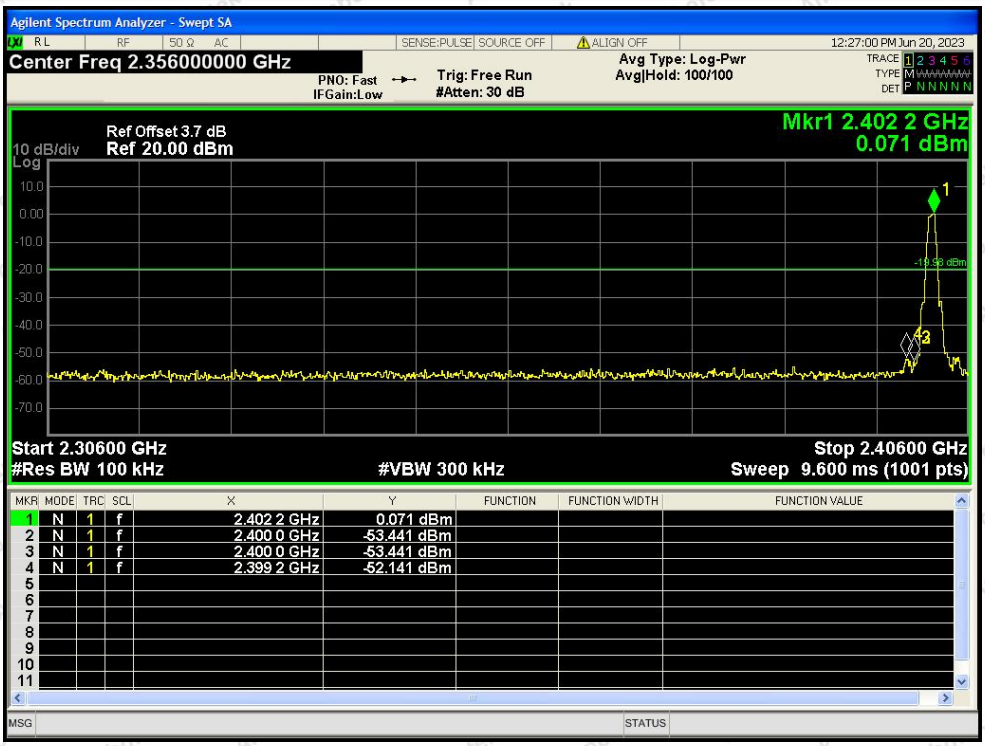
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.16	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.29	-20	Pass

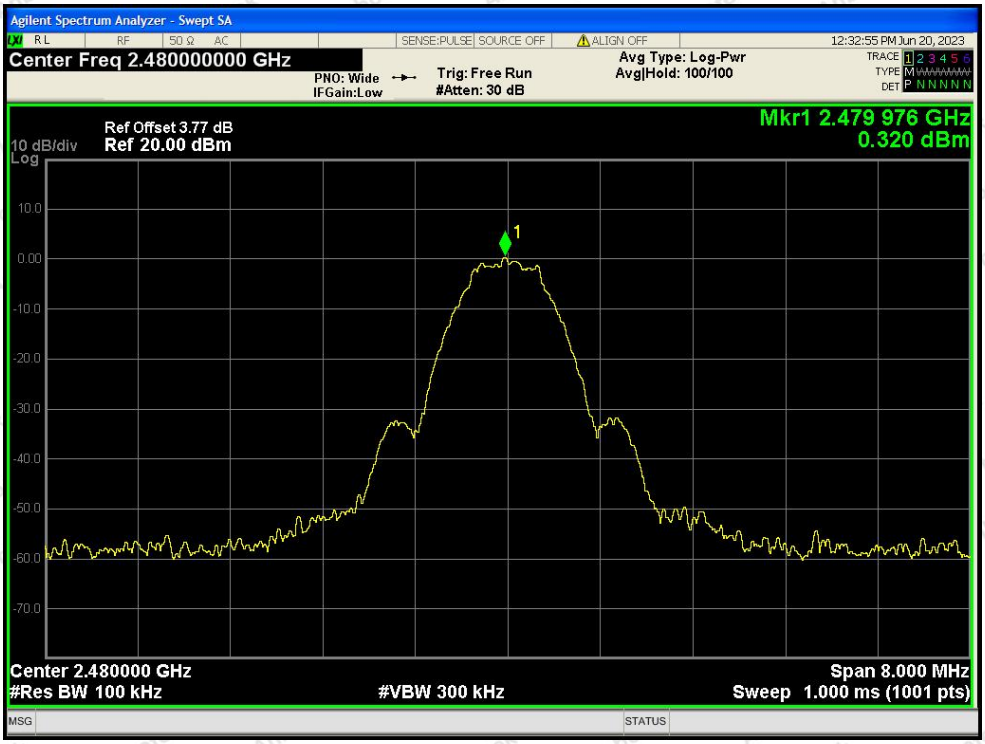
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

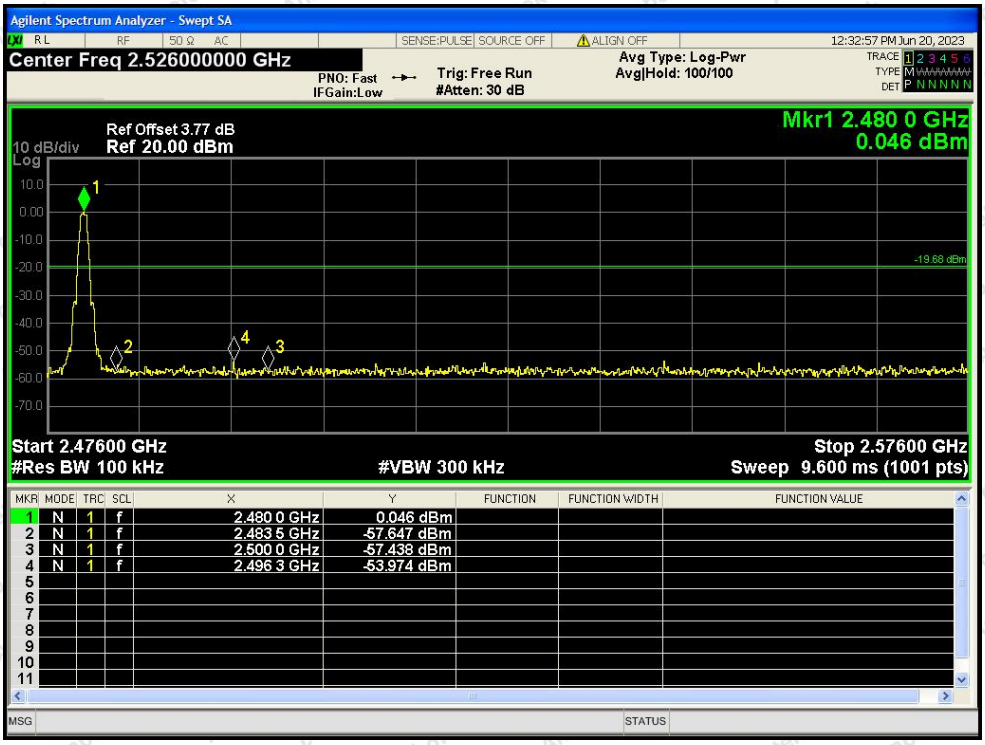
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.34	0	-14.34	8	Pass
NVNT	BLE 1M	2440	Ant1	-14	0	-14	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.74	0	-14.74	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

PSD NVNT BLE 1M 2440MHz Ant1

PSD NVNT BLE 1M 2480MHz Ant1

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