



Appendix B

RF Test Data for 2.4G (Conducted Measurement)

Product Name: The third mock examination mechanical keyboard

Test Model: TGK200

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Ling Zhu





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2403	Ant1	1.336	≥ 0.5	Pass
NVNT	2.4G	2441	Ant1	1.319	≥ 0.5	Pass
NVNT	2.4G	2480	Ant1	1.329	≥ 0.5	Pass



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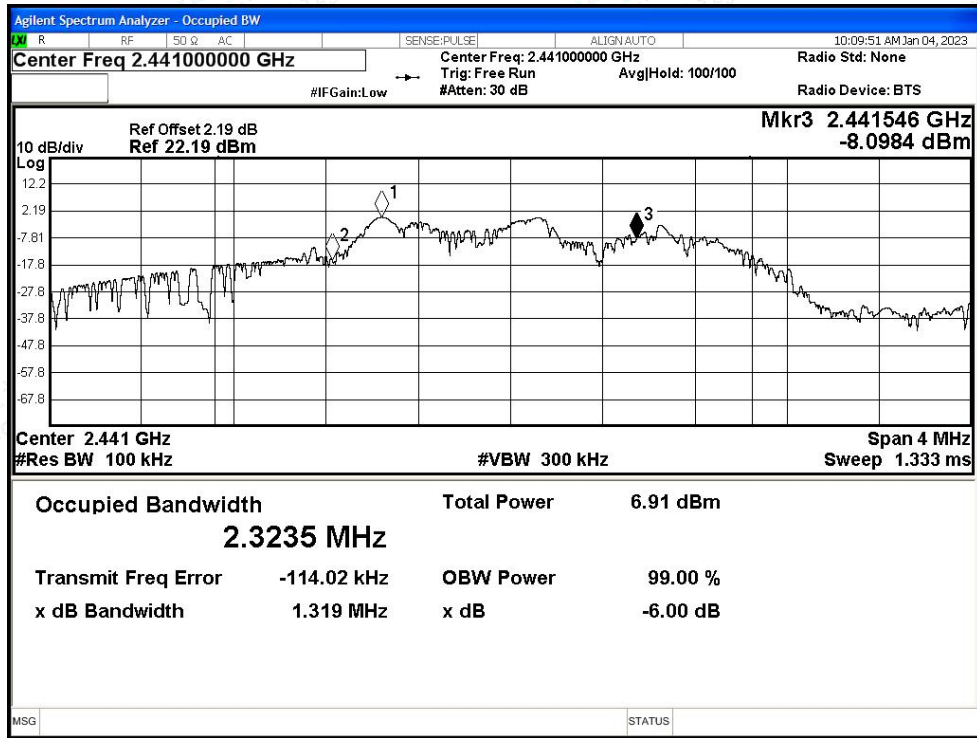


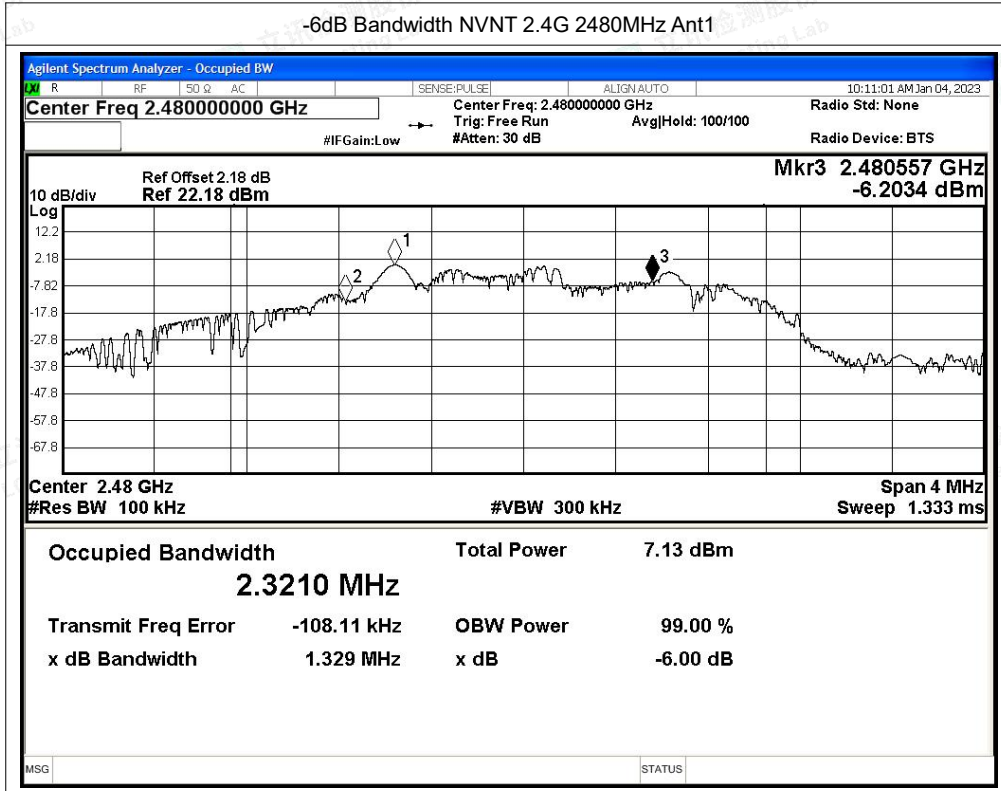
Test Graphs

-6dB Bandwidth NVNT 2.4G 2403MHz Ant1



-6dB Bandwidth NVNT 2.4G 2441MHz Ant1







B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2403	Ant1	0.23	30	Pass
NVNT	2.4G	2441	Ant1	-0.1	30	Pass
NVNT	2.4G	2480	Ant1	-0.07	30	Pass

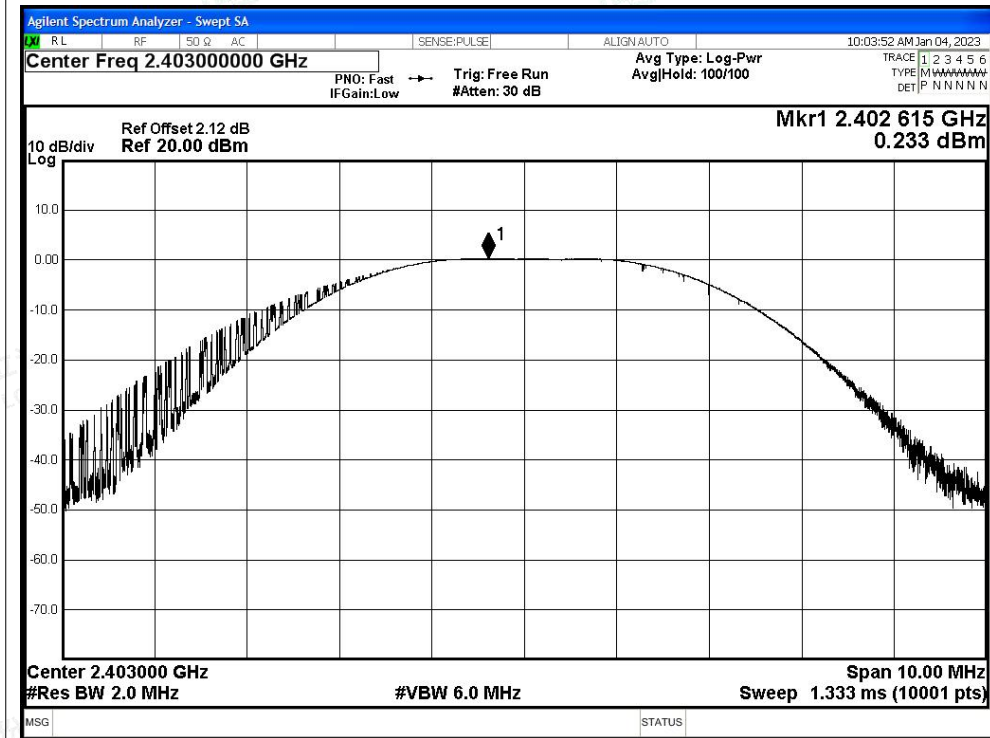


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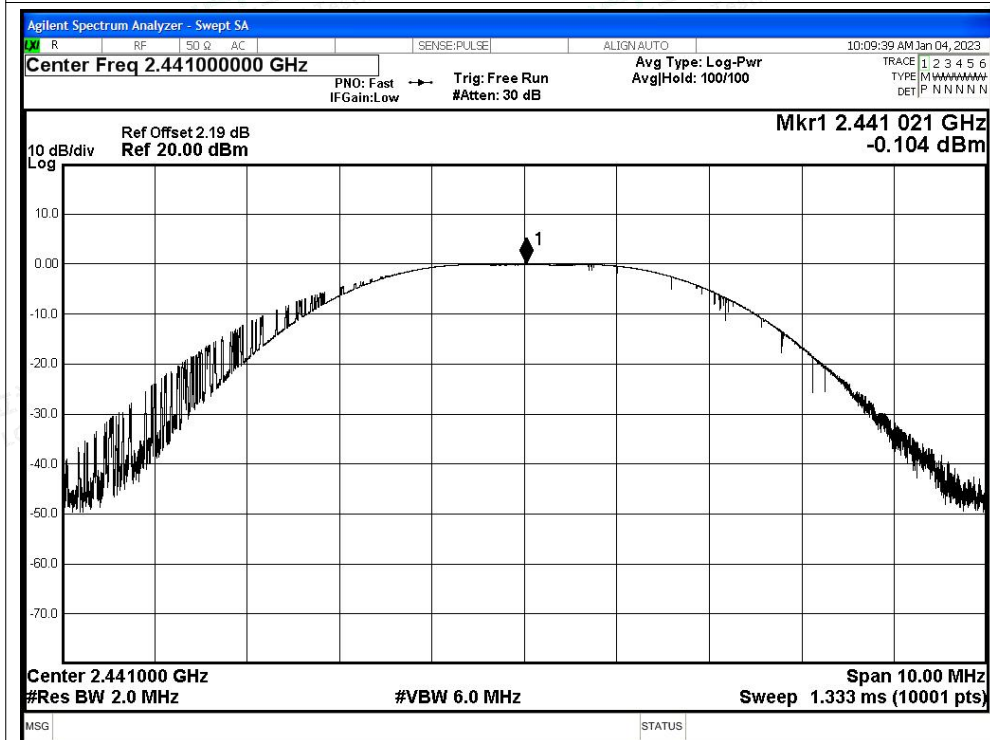


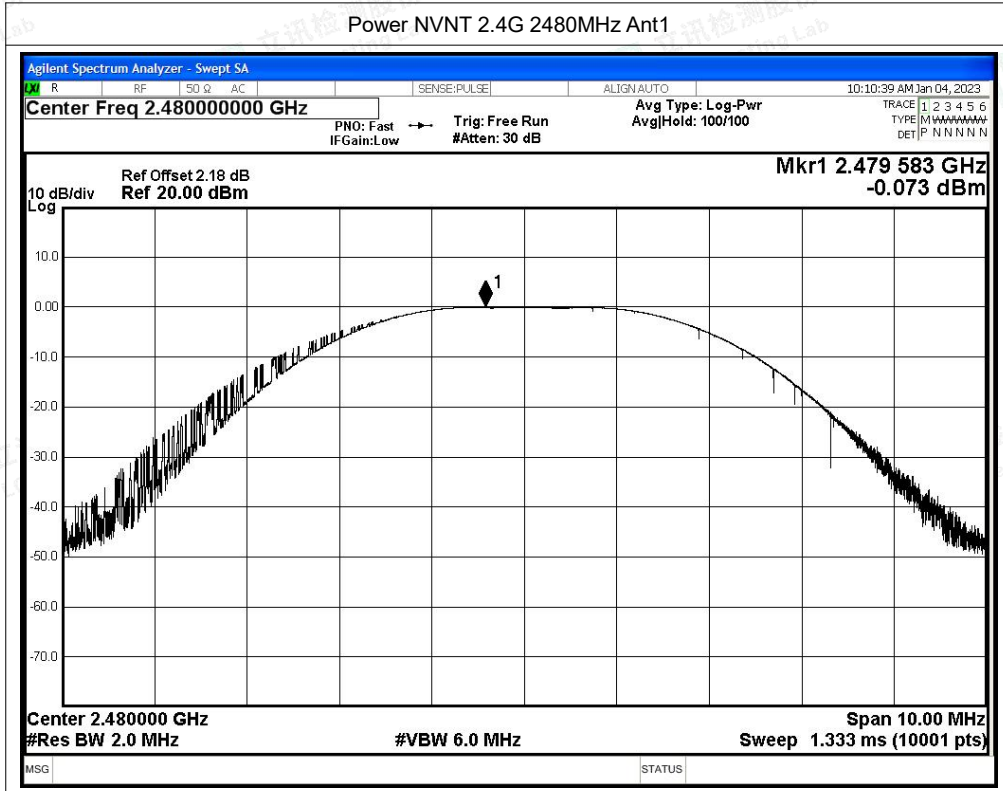
Test Graphs

Power NVNT 2.4G 2403MHz Ant1



Power NVNT 2.4G 2441MHz Ant1







B.3 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	2.4G	2403	Ant1	-5.13	0	-5.13	8	Pass
NVNT	2.4G	2441	Ant1	-4.99	0	-4.99	8	Pass
NVNT	2.4G	2480	Ant1	-5.54	0	-5.54	8	Pass

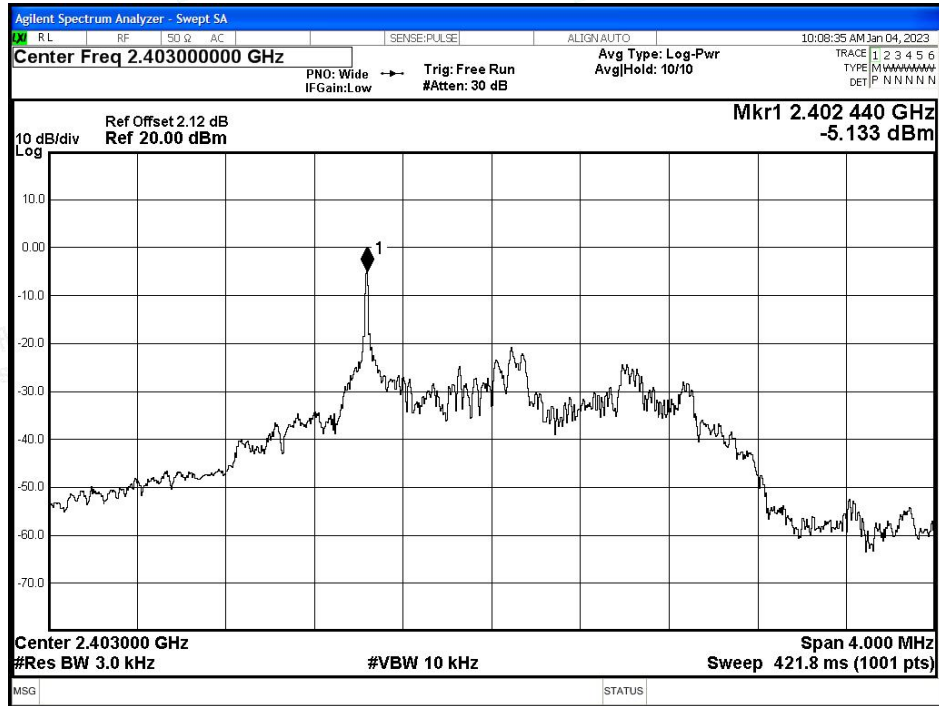


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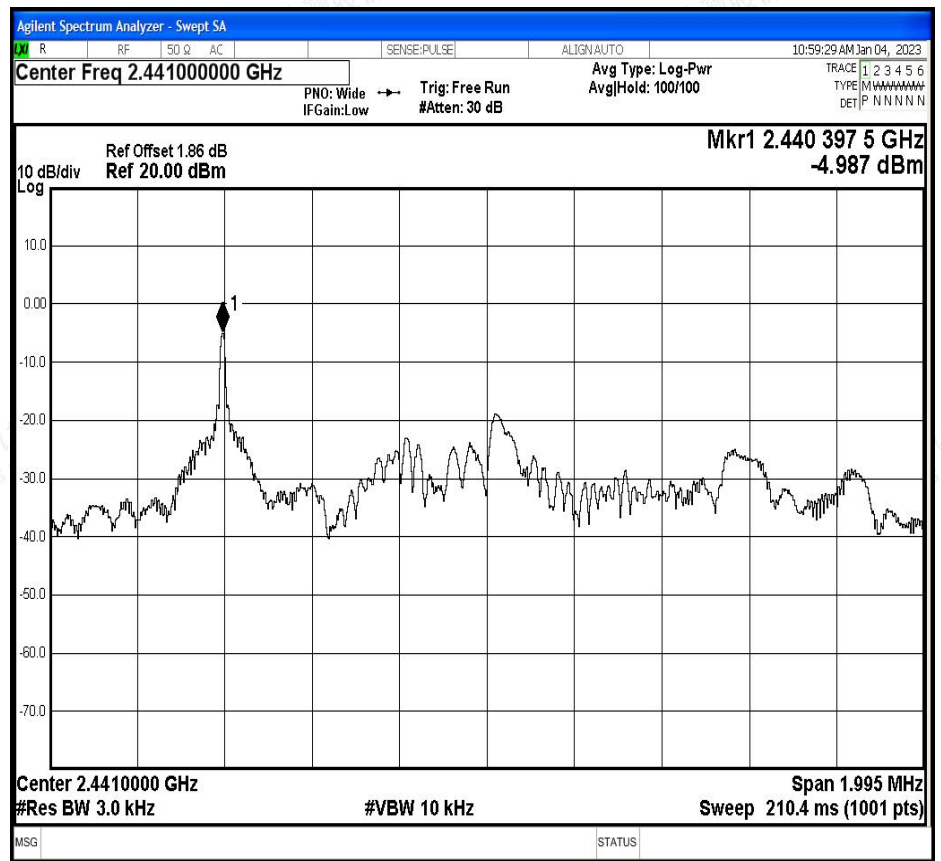
Test Graphs

PSD NVNT BLE 2M 2403MHz Ant1

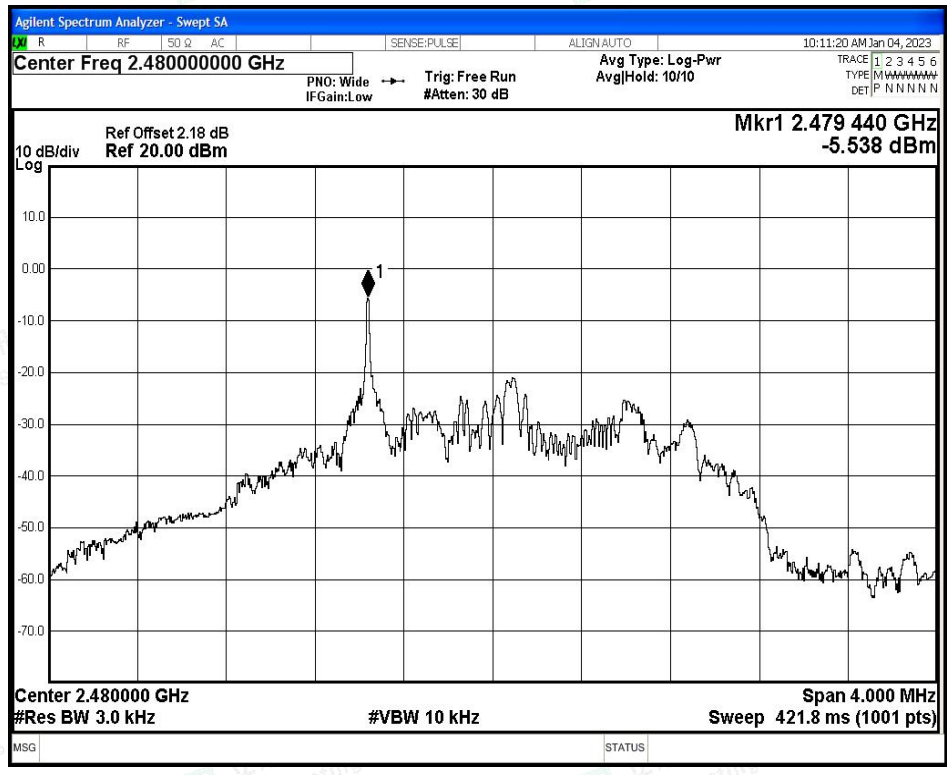


PSD NVNT BLE 2M 2441MHz Ant1





PSD NVNT BLE 2M 2480MHz Ant1





B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2403	Ant1	-53.55	-20	Pass
NVNT	2.4G	2480	Ant1	-56.77	-20	Pass

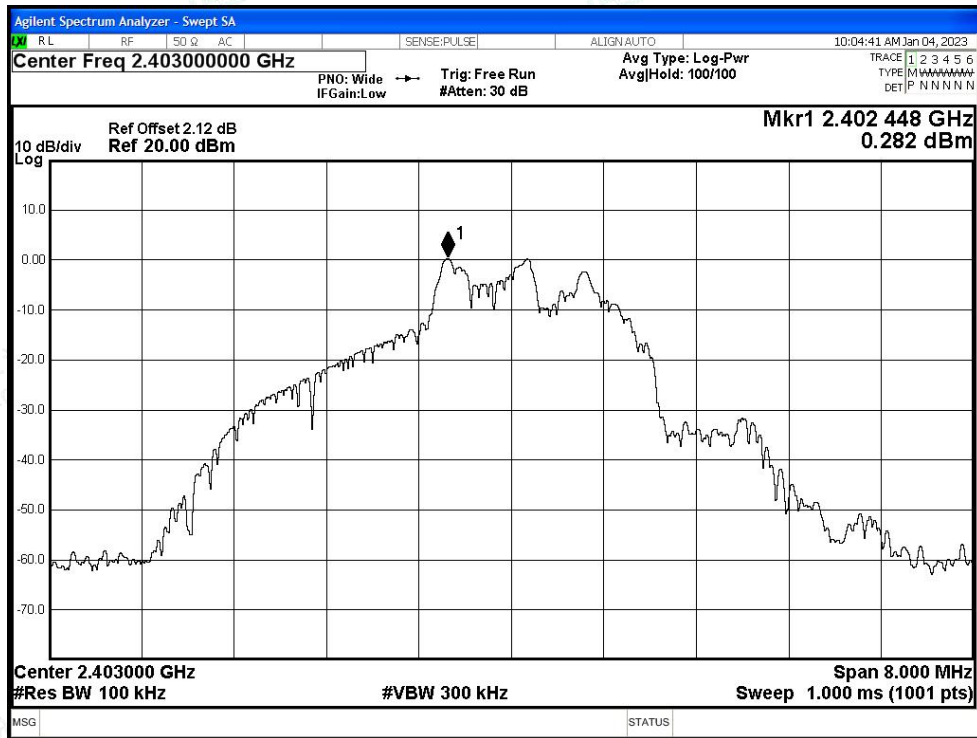


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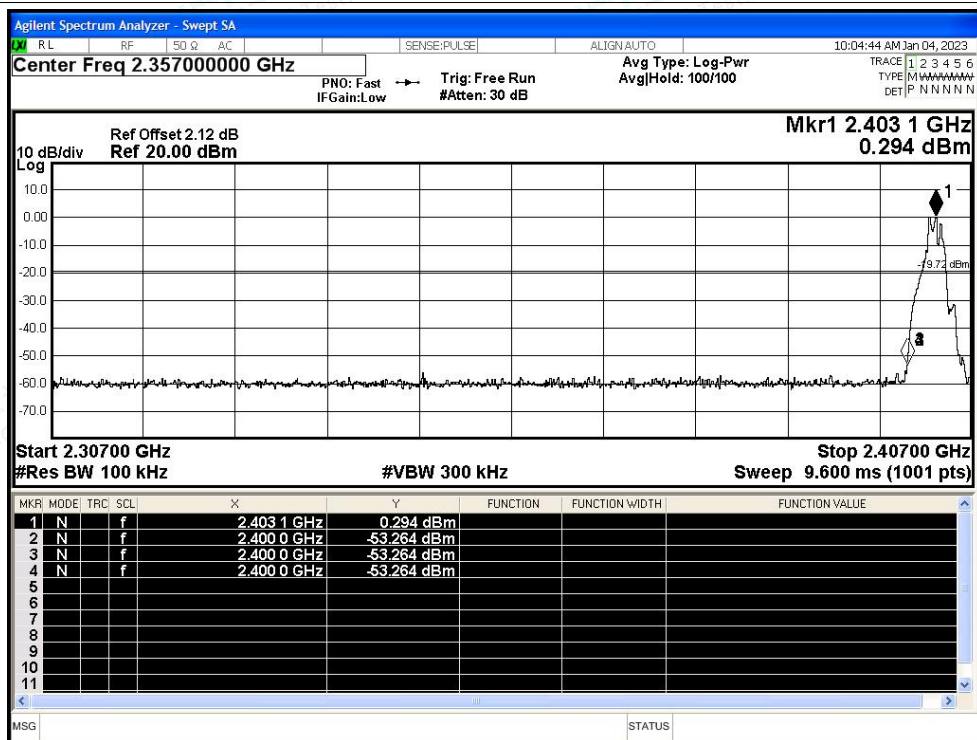


Test Graphs

Band Edge NVNT 2.4G 2403MHz Ant1 Ref



Band Edge NVNT 2.4G 2403MHz Ant1 Emission

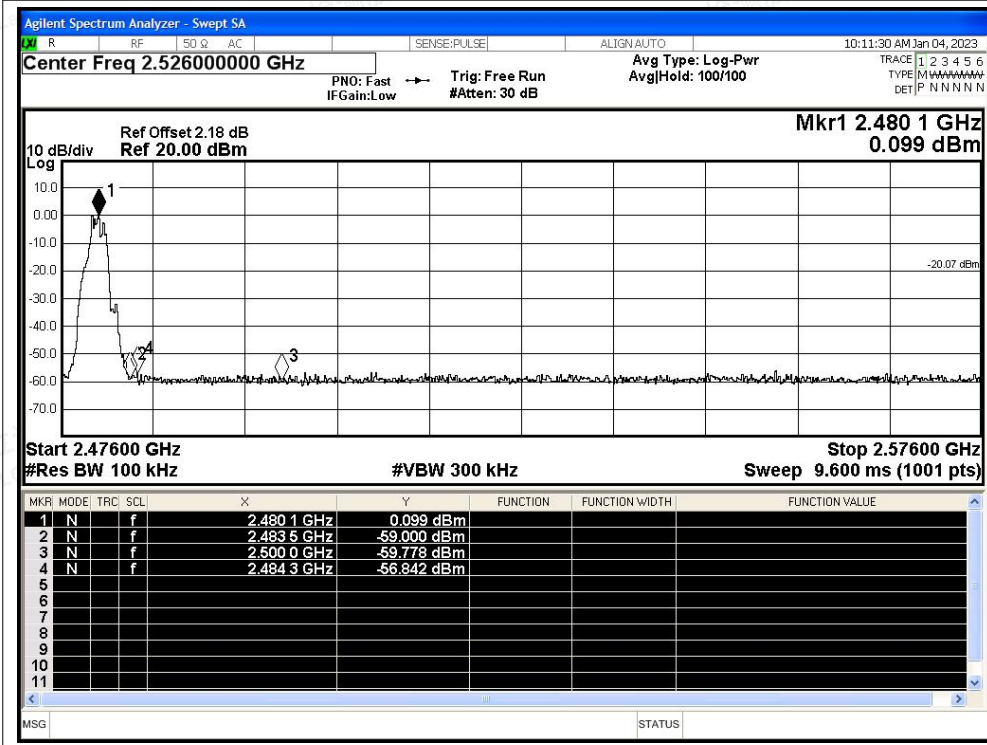




Band Edge NVNT 2.4G 2480MHz Ant1 Ref



Band Edge NVNT 2.4G 2480MHz Ant1 Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2403	Ant1	-55.48	-20	Pass
NVNT	2.4G	2441	Ant1	-56.35	-20	Pass
NVNT	2.4G	2480	Ant1	-54.6	-20	Pass

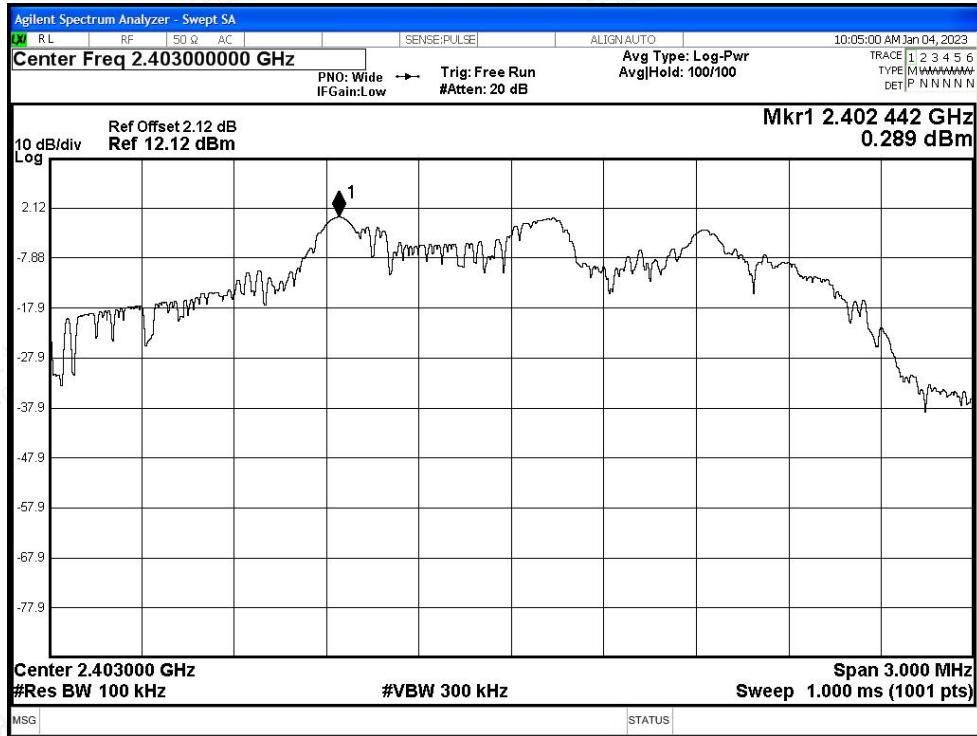


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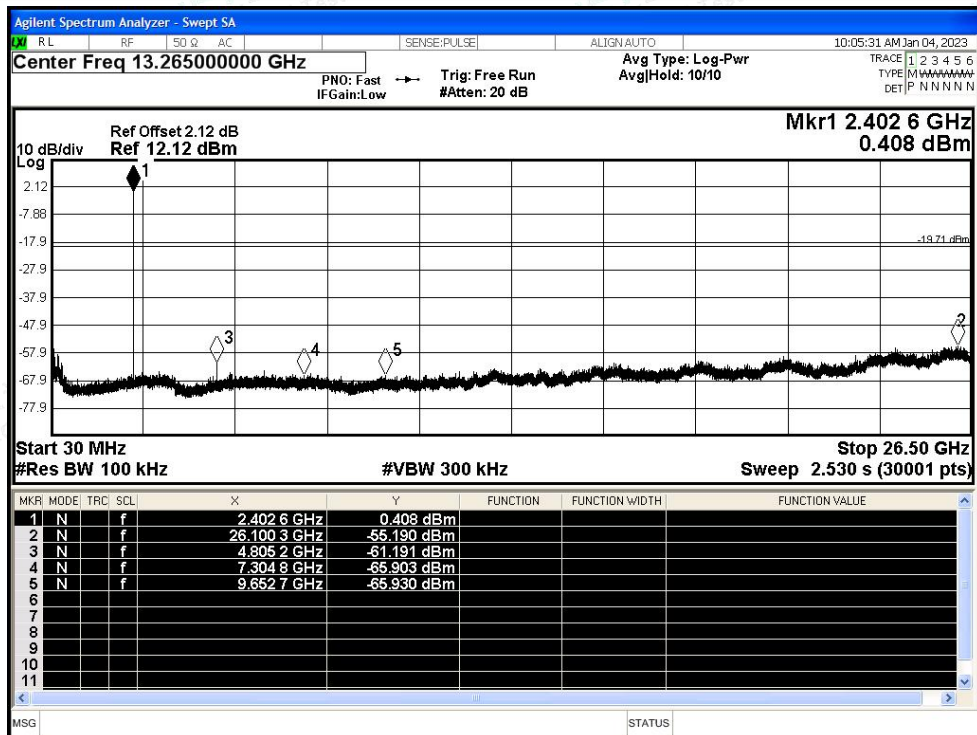


Test Graphs

Tx. Spurious NVNT 2.4G 2403MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2403MHz Ant1 Emission

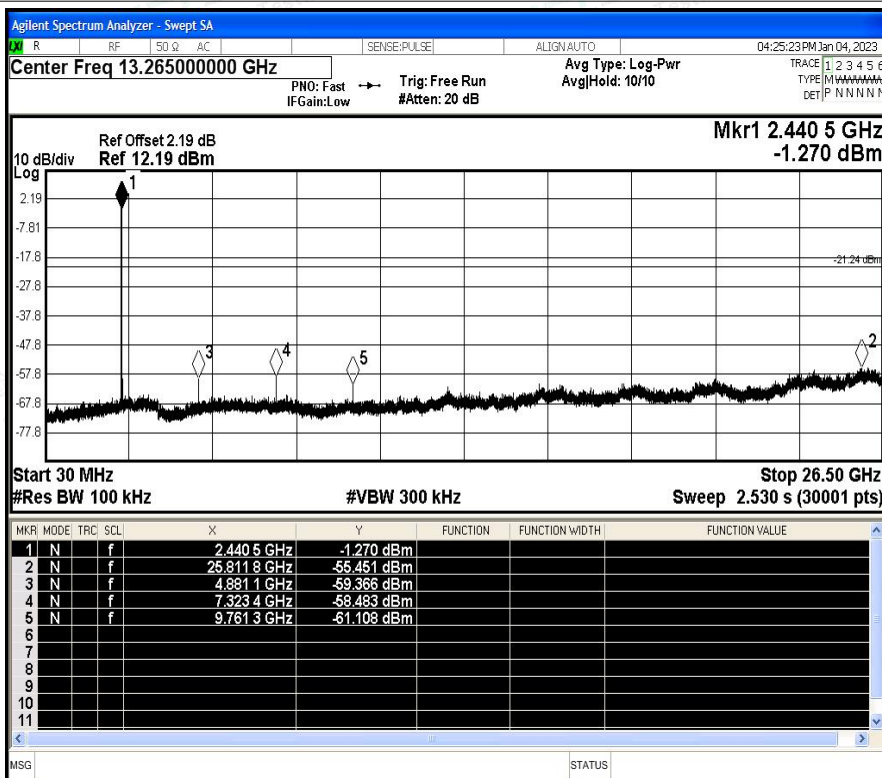


Tx. Spurious NVNT 2.4G 2441MHz Ant1 Ref



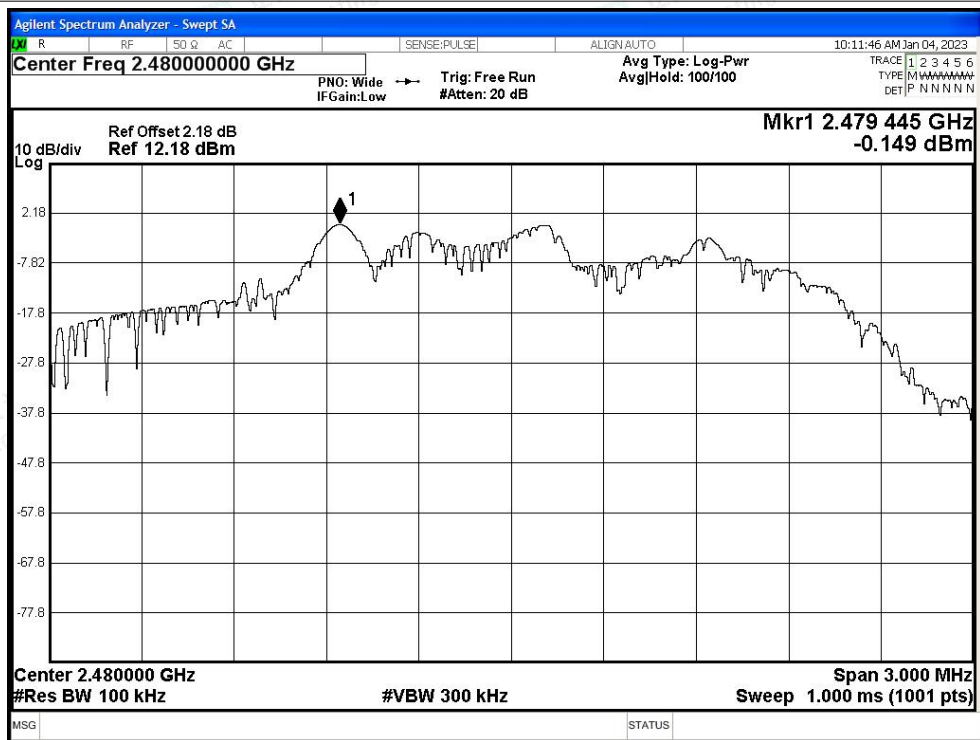


Tx. Spurious NVNT 2.4G 2441MHz Ant1 Emission

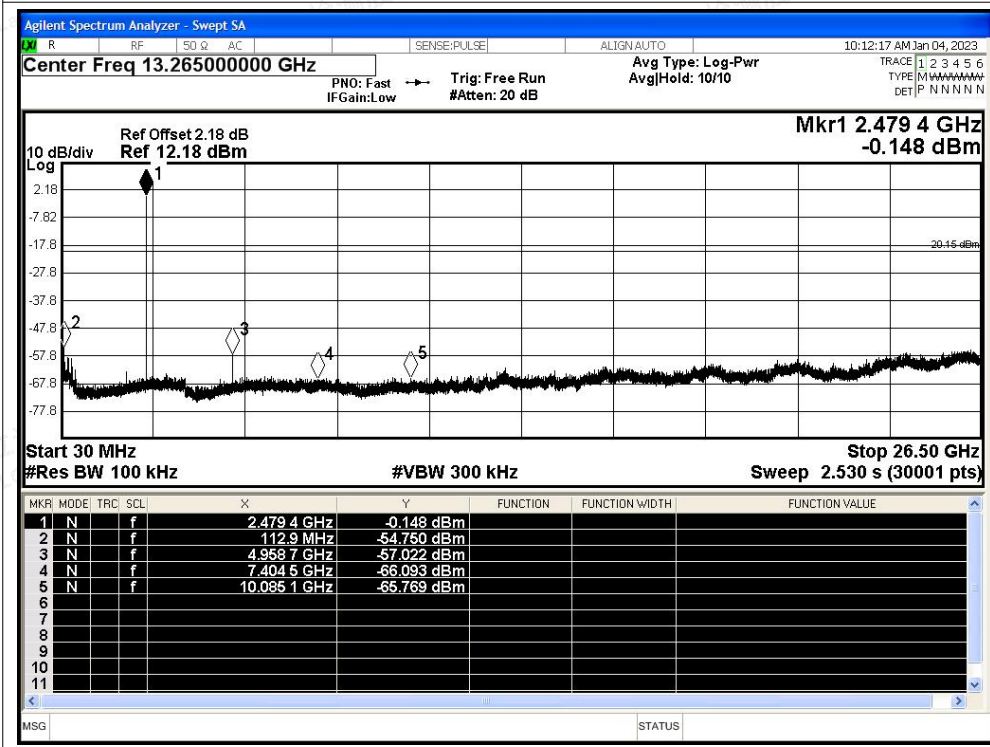




Tx. Spurious NVNT 2.4G 2480MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2480MHz Ant1 Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2403	Ant1	52.19	2.82	4.8
NVNT	2.4G	2441	Ant1	51.81	2.86	4.83
NVNT	2.4G	2480	Ant1	52.19	2.82	4.8

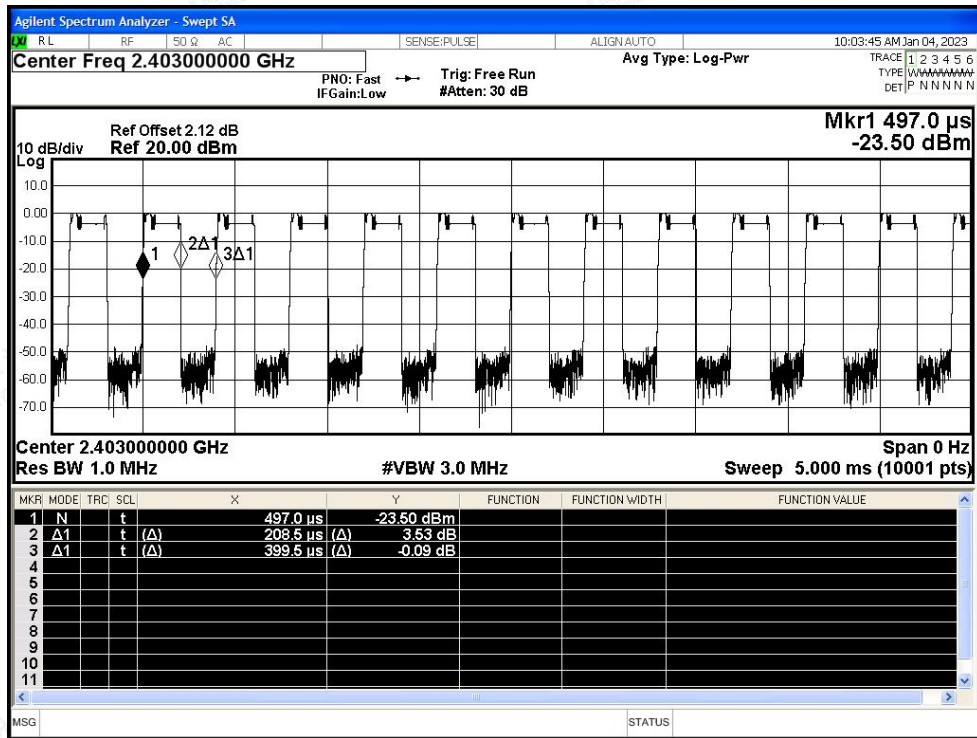


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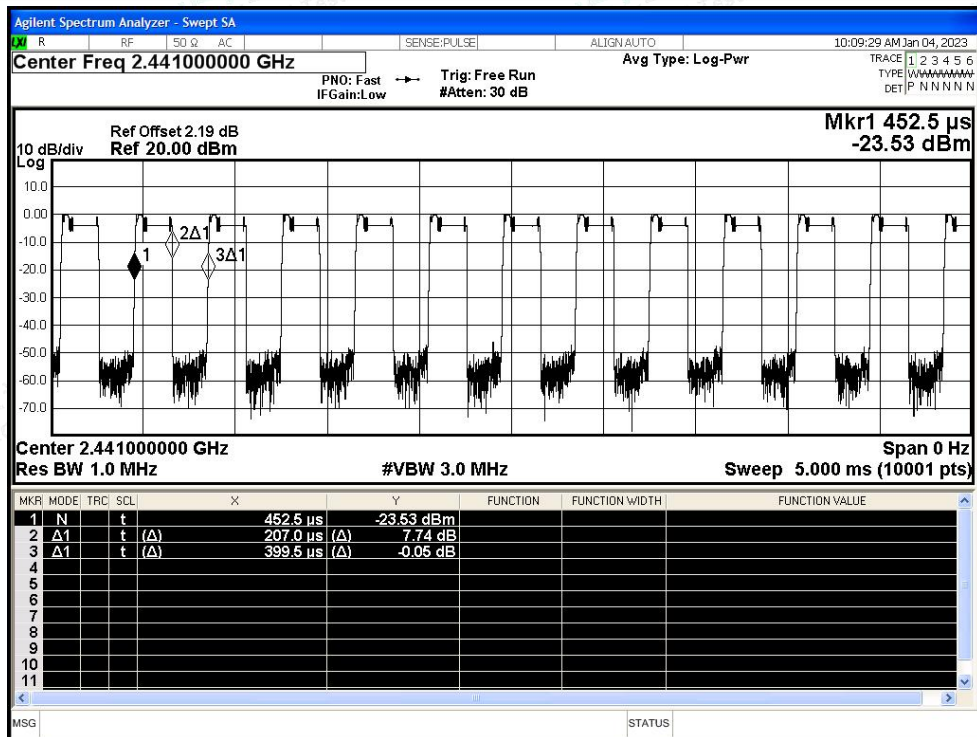


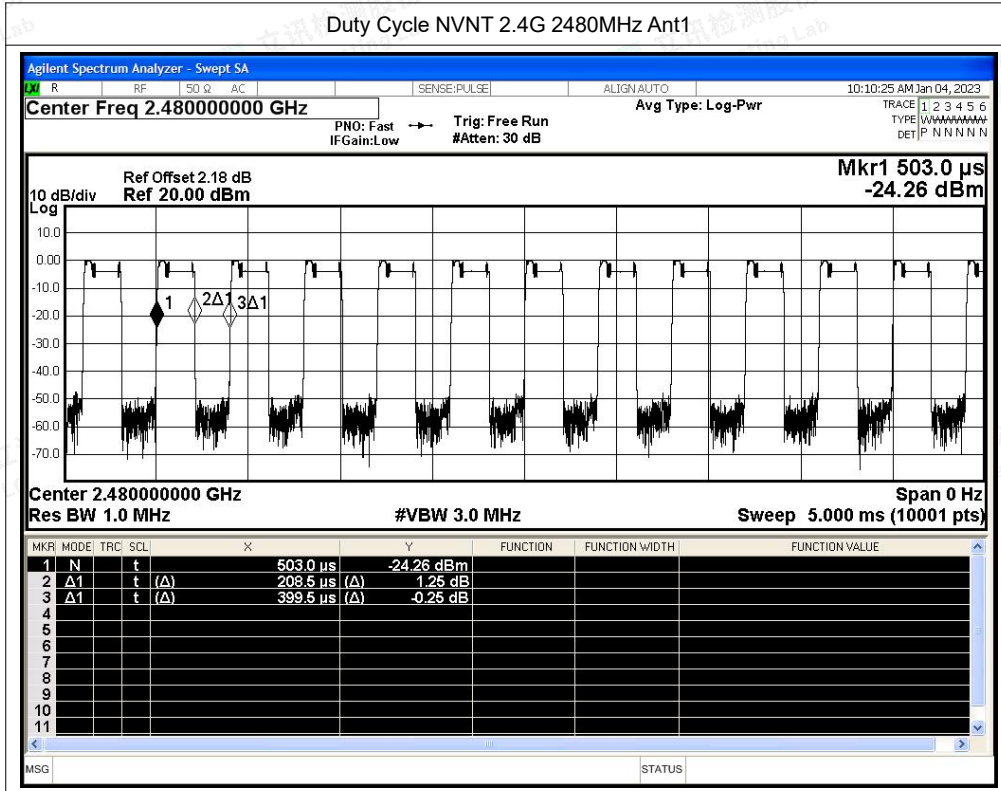
Test Graphs

Duty Cycle NVNT 2.4G 2403MHz Ant1



Duty Cycle NVNT 2.4G 2441MHz Ant1







B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2403	Ant1	2310	-51.58	2.34	45.99	Peak	74	Pass
NVNT	2.4G	2403	Ant1	2310	-59.23	2.34	38.34	Average	54	Pass
NVNT	2.4G	2403	Ant1	2355.008	-47.49	2.34	50.08	Peak	74	Pass
NVNT	2.4G	2403	Ant1	2335.705	-58.25	2.34	39.32	Average	54	Pass
NVNT	2.4G	2403	Ant1	2390	-49.11	2.34	48.46	Peak	74	Pass
NVNT	2.4G	2403	Ant1	2390	-59.01	2.34	38.56	Average	54	Pass
NVNT	2.4G	2480	Ant1	2483.5	-46.06	2.34	51.51	Peak	74	Pass
NVNT	2.4G	2480	Ant1	2483.5	-56.55	2.34	41.02	Average	54	Pass
NVNT	2.4G	2480	Ant1	2483.512	-46.06	2.34	51.51	Peak	74	Pass
NVNT	2.4G	2480	Ant1	2483.512	-56.55	2.34	41.02	Average	54	Pass
NVNT	2.4G	2480	Ant1	2500	-50.91	2.34	46.66	Peak	74	Pass
NVNT	2.4G	2480	Ant1	2500	-58.59	2.34	38.98	Average	54	Pass

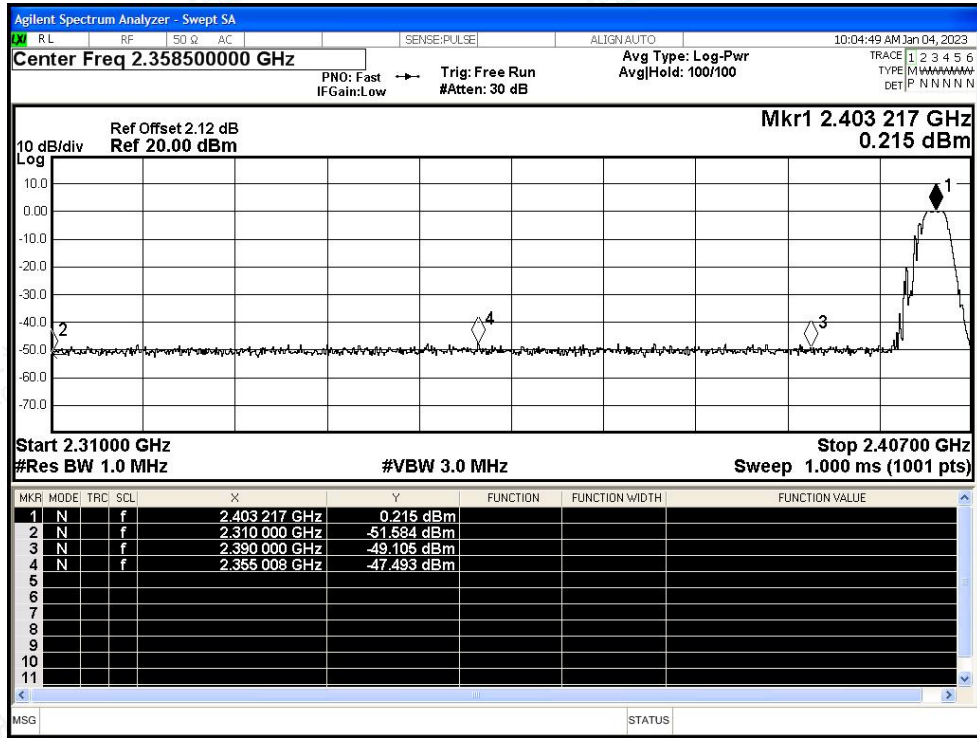


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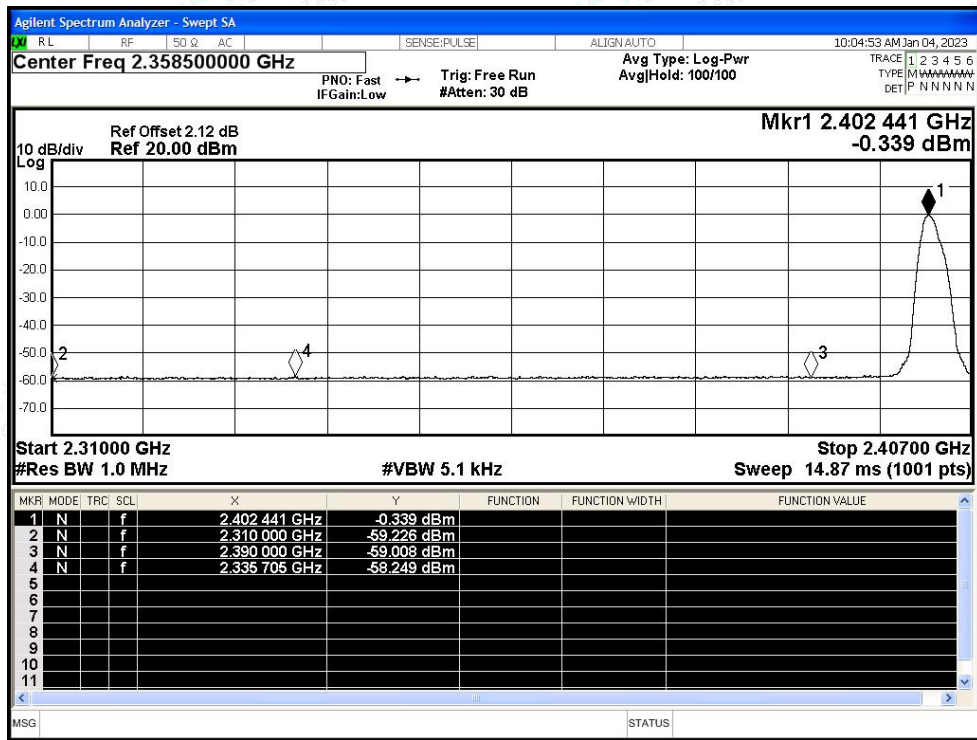


Test Graphs

Restrict Band NVNT 2.4G 2403MHz Ant1 Peak

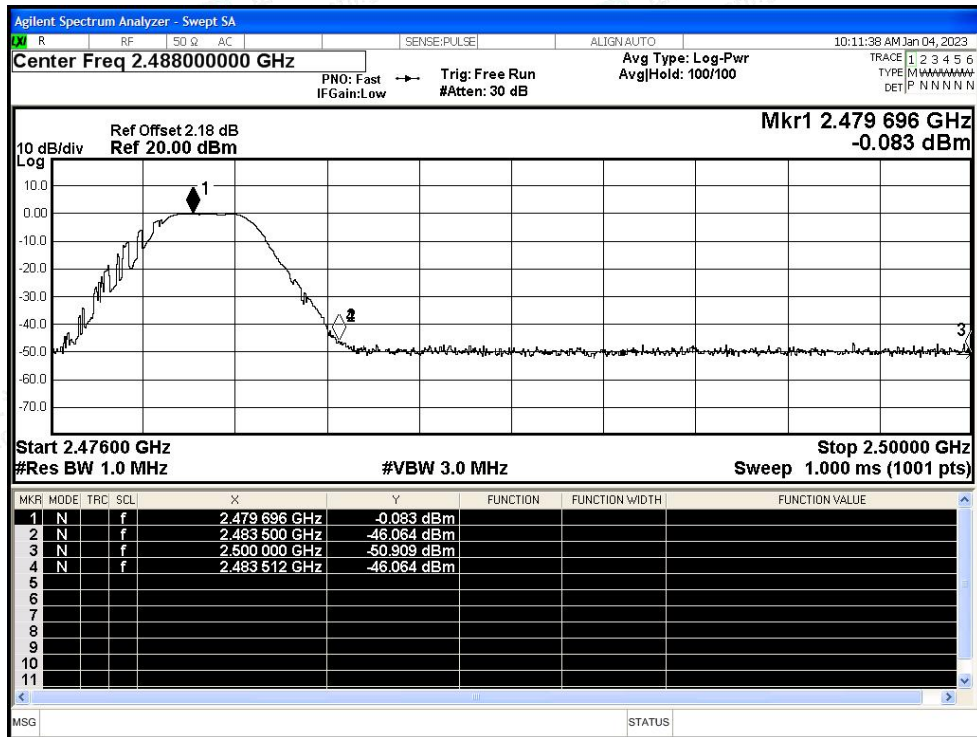


Restrict Band NVNT 2.4G 2403MHz Ant1 Average





Restrict Band NVNT 2.4G 2480MHz Ant1 Peak



Restrict Band NVNT 2.4G 2480MHz Ant1 Average

