



Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Wireless Attachable Microphone

Test Model: TGX1P1

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	Ant1	0.942	N/A	Pass
NVNT	2.4G	2441	Ant1	0.947	N/A	Pass
NVNT	2.4G	2480	Ant1	0.953	N/A	Pass



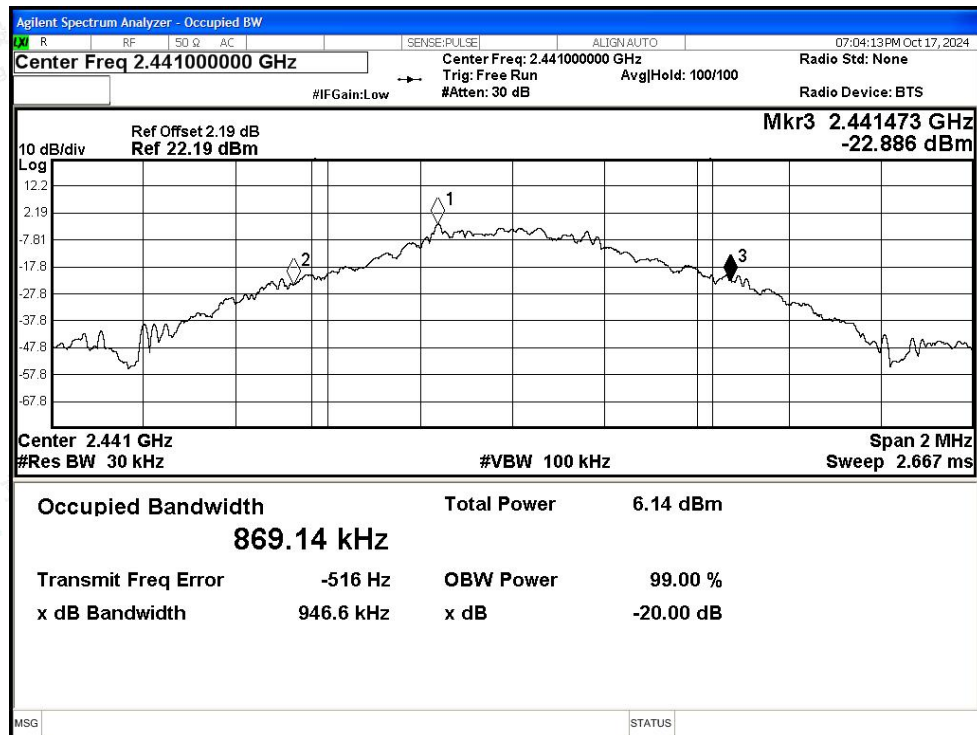


Test Graphs

-20dB Bandwidth NVNT 2.4G 2402MHz Ant1



-20dB Bandwidth NVNT 2.4G 2441MHz Ant1

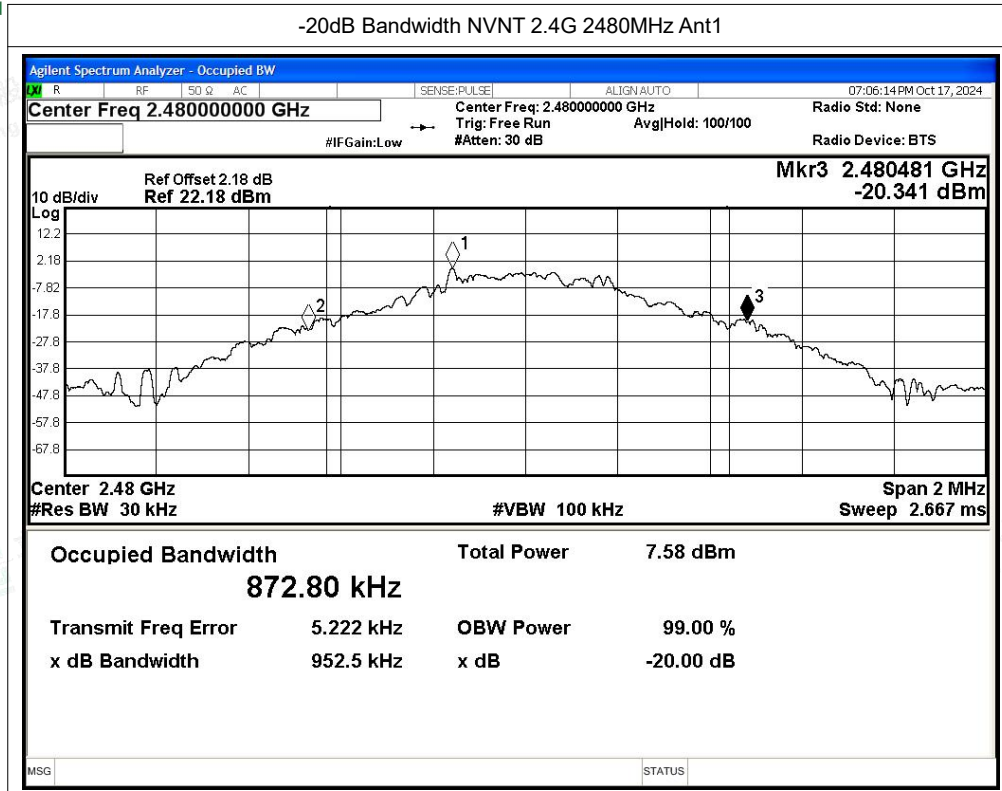


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A.2 Occupied Channel Bandwidth

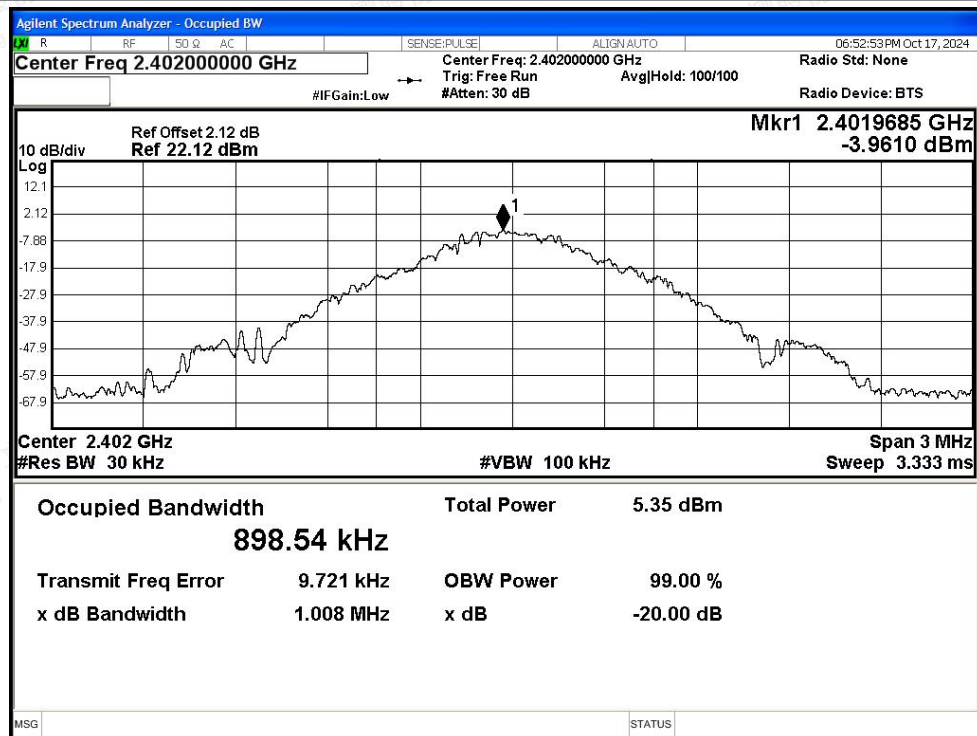
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	2.4G	2402	Ant1	0.899
NVNT	2.4G	2441	Ant1	0.861
NVNT	2.4G	2480	Ant1	0.869



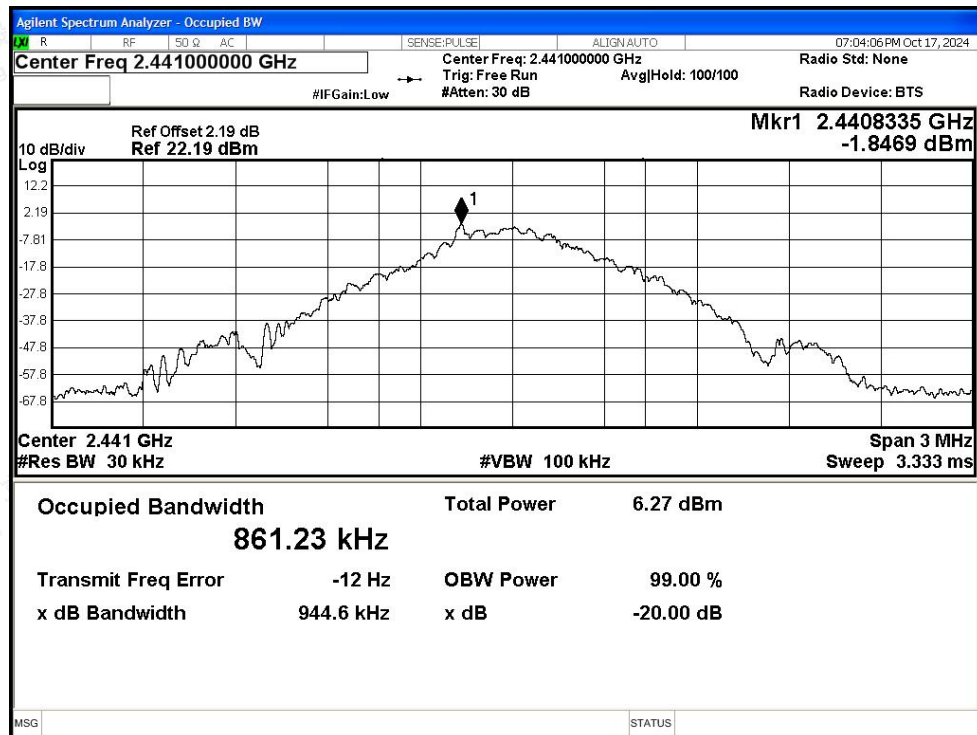


Test Graphs

OBW NVNT 2.4G 2402MHz Ant1



OBW NVNT 2.4G 2441MHz Ant1



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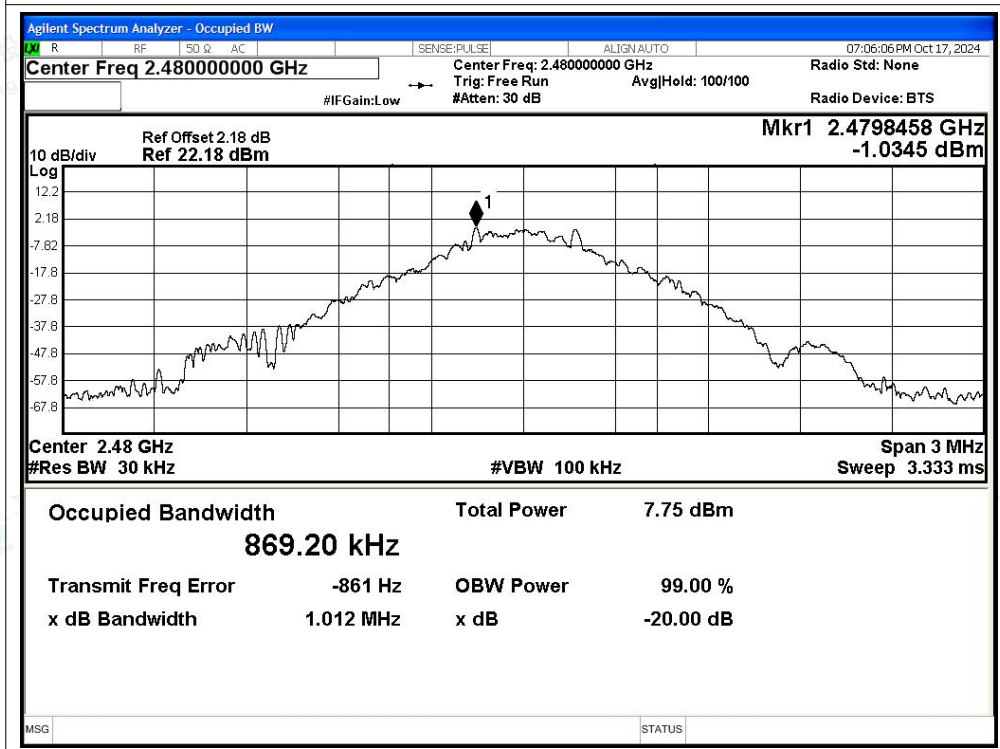
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OBW NVNT 2.4G 2480MHz Ant1



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A.3 Maximum Peak Conducted Output Power and e.i.r.p.

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	Ant1	-0.78	21	Pass
NVNT	2.4G	2441	Ant1	-0.38	21	Pass
NVNT	2.4G	2480	Ant1	1.20	21	Pass

EIRP

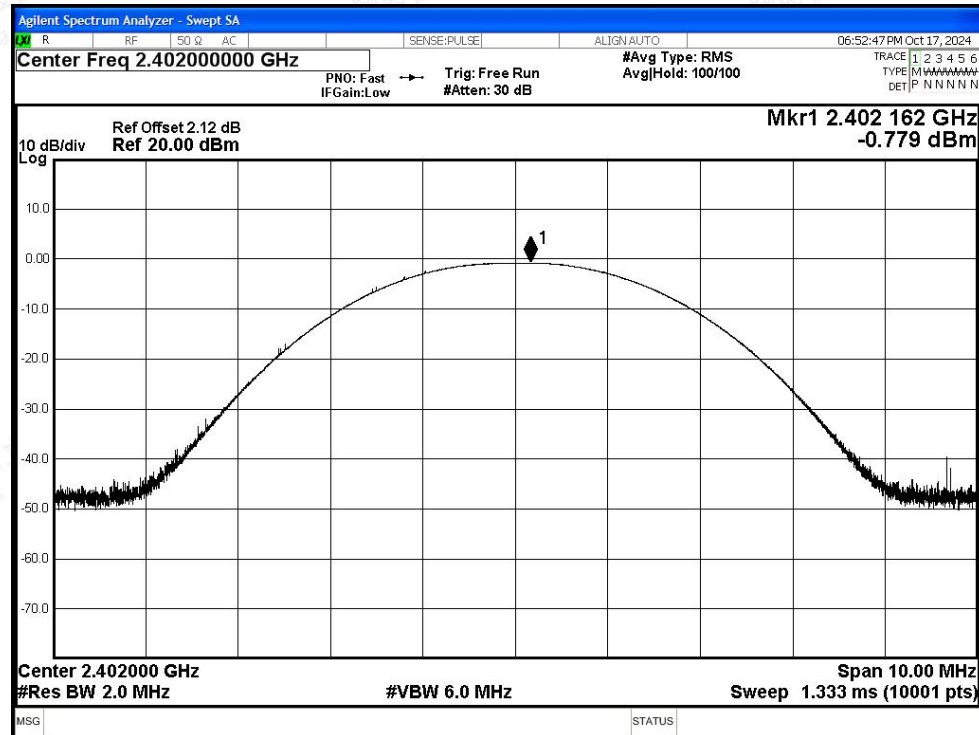
Condition	Mode	Frequency (MHz)	Antenna	Maximum Peak Output Power [dBm]	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	Ant1	-0.78	2.0	1.22	36	Pass
NVNT	2.4G	2441	Ant1	-0.38	2.0	1.62	36	Pass
NVNT	2.4G	2480	Ant1	1.20	2.0	3.20	36	Pass



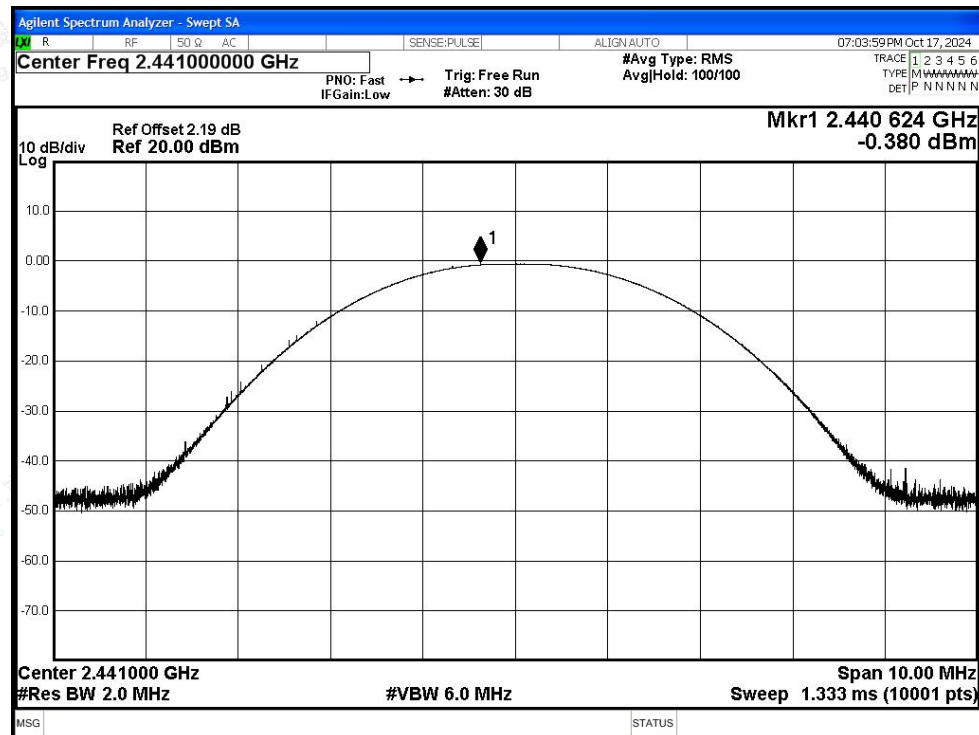


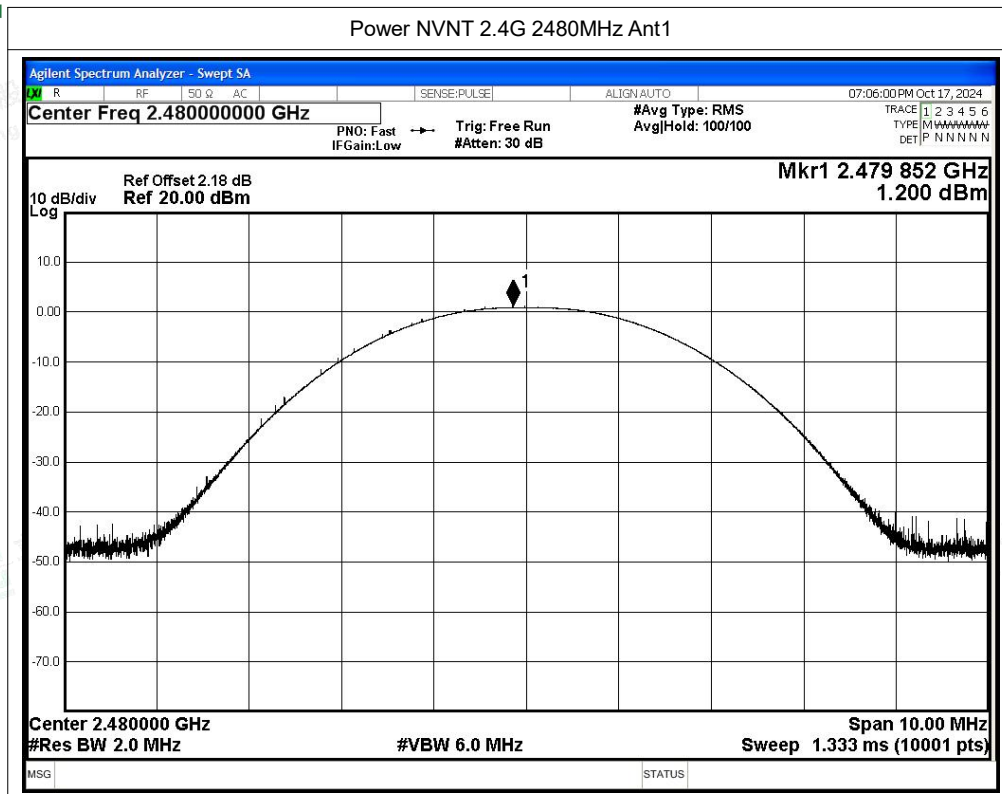
Test Graphs

Power NVNT 2.4G 2402MHz Ant1



Power NVNT 2.4G 2441MHz Ant1







A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	Ant1	2402.03	2402.828	0.798	0.635	Pass

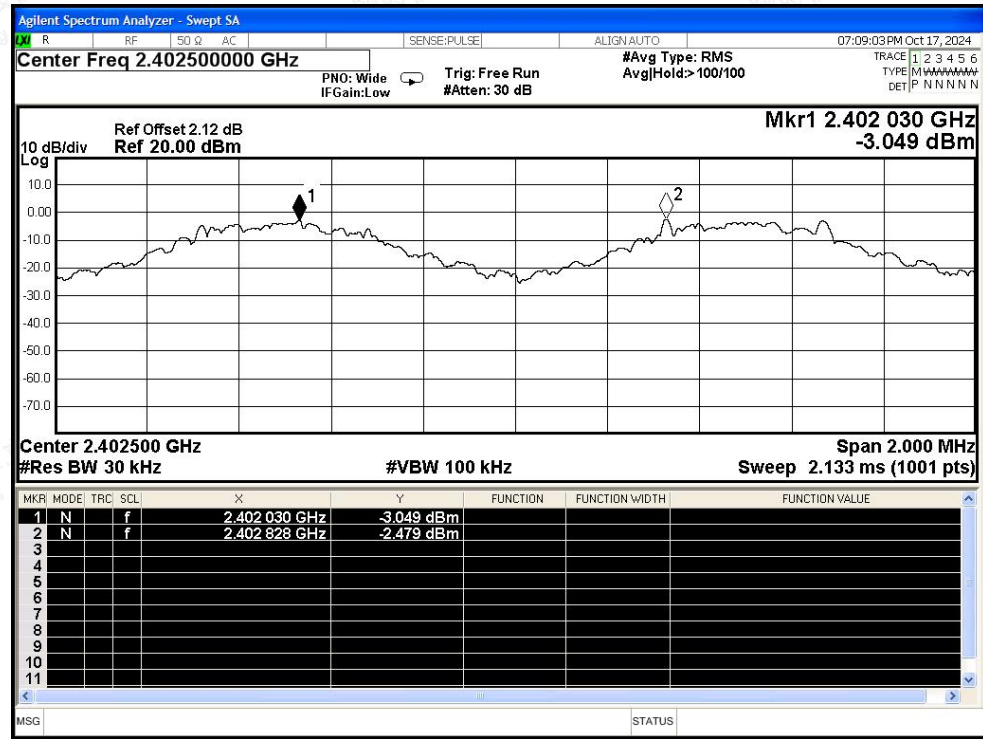


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Test Graphs

CFS NVNT 2.4G 2402MHz Ant1





A.5 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2402	Ant1	2.91	299.73	103	31600	400	Pass



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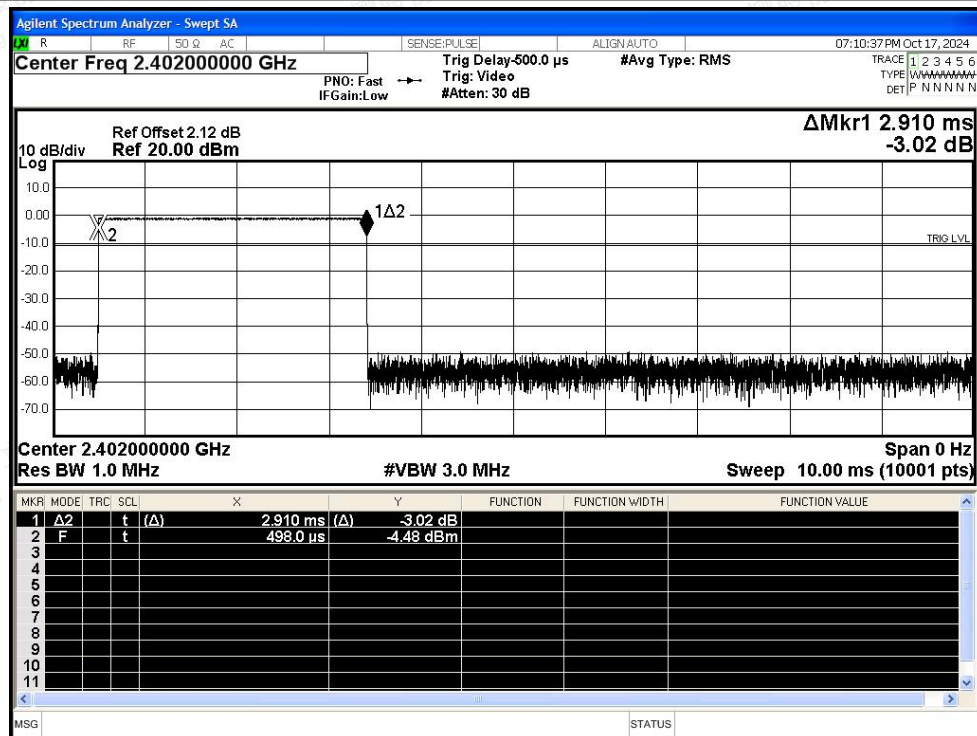
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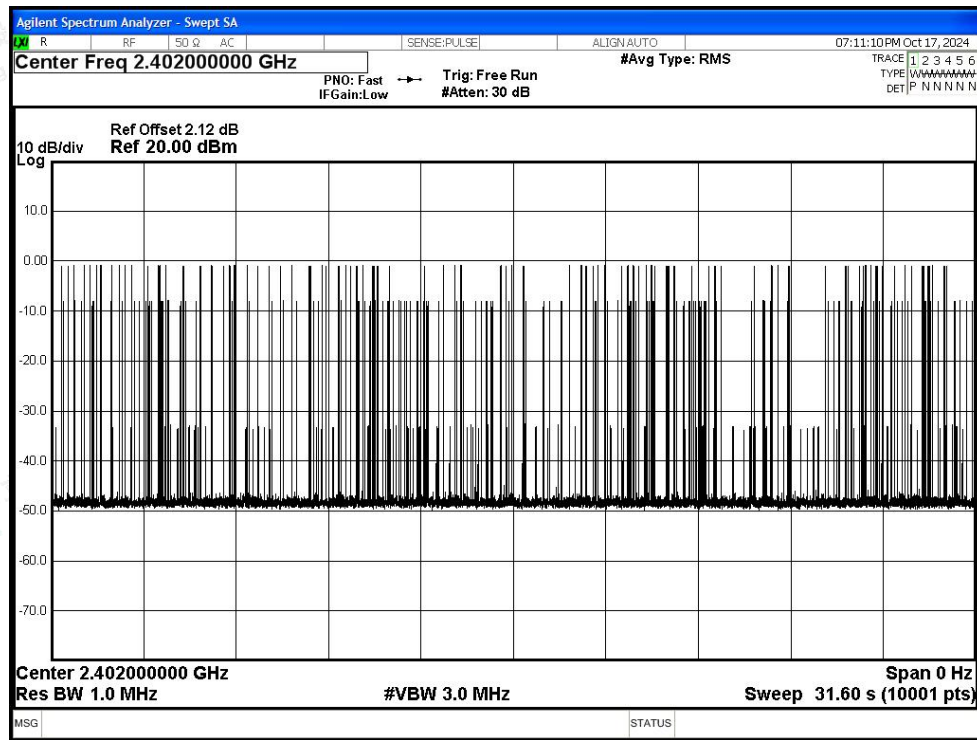


Test Graphs

Dwell NVNT 2.4G 2402MHz Ant1 One Burst



Dwell NVNT 2.4G 2402MHz Ant1 Accumulated



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A.6 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	2.4G	Ant1	79	15	Pass

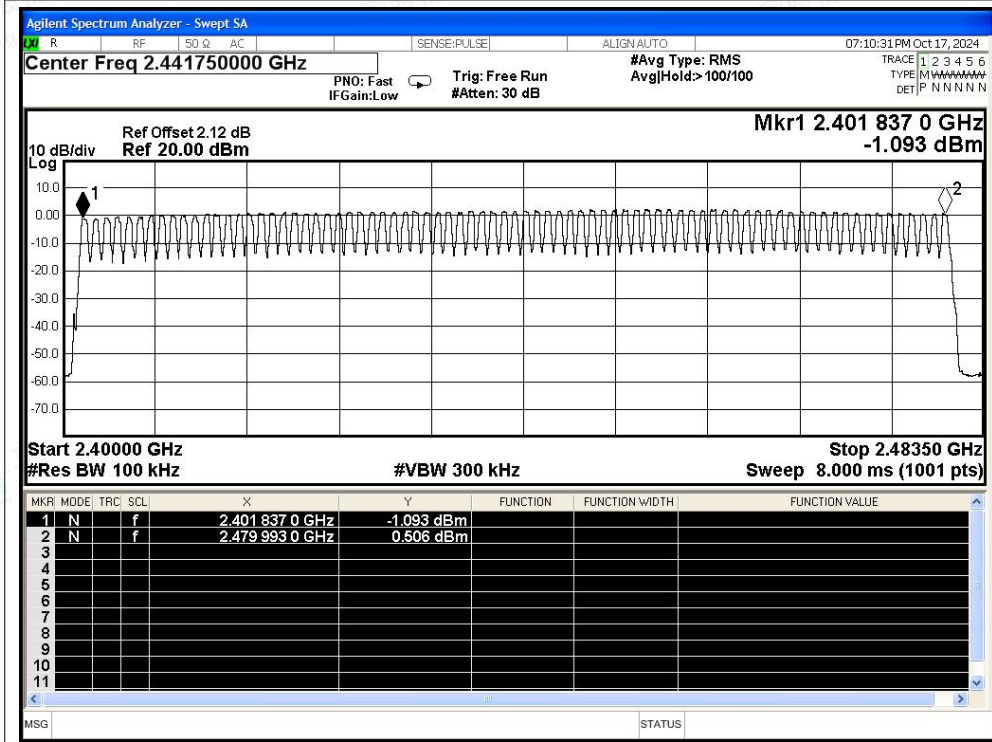


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Test Graphs

Hopping No. NVNT 2.4G 2402MHz Ant1



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A.7 Band Edge

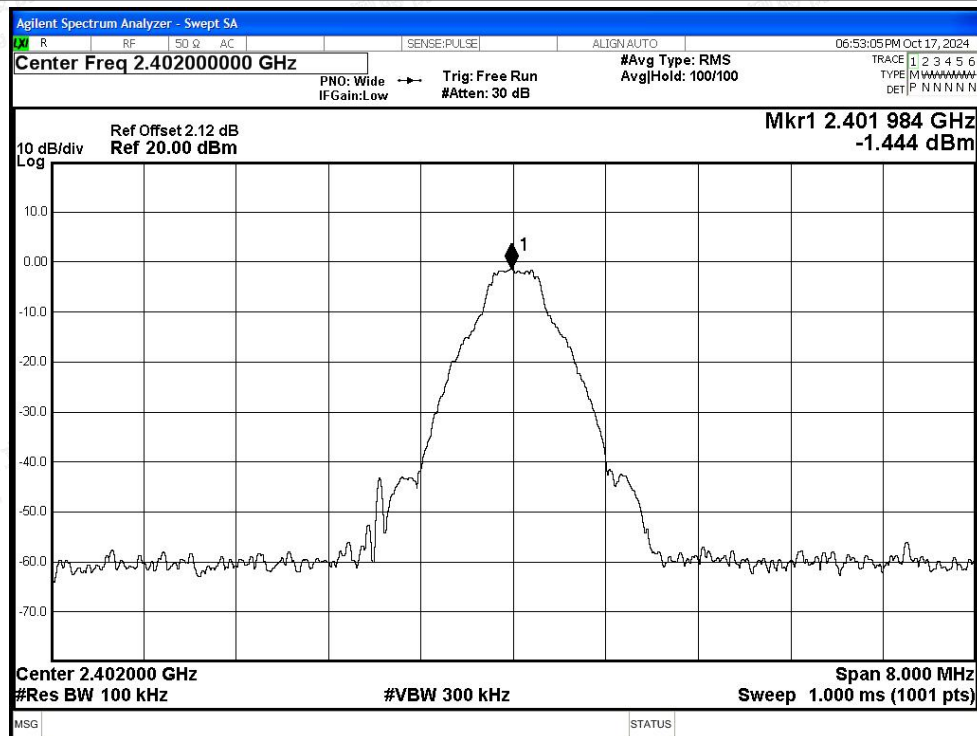
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	No-Hopping	-54.91	-20	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	-56.73	-20	Pass



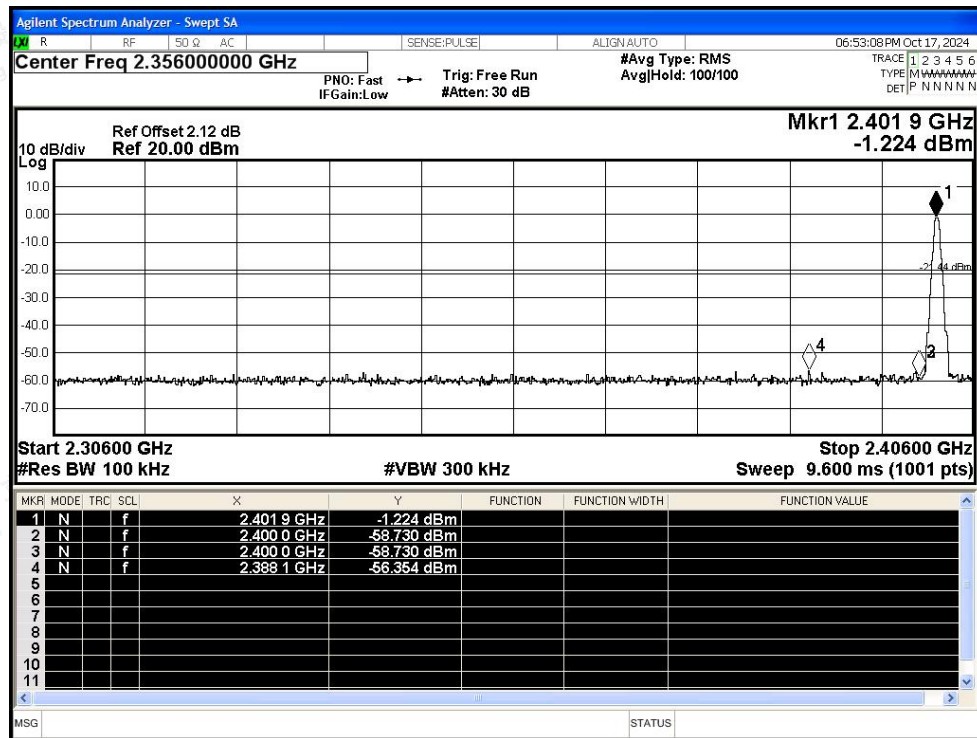


Test Graphs

Band Edge NVNT 2.4G 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2.4G 2402MHz Ant1 No-Hopping Emission



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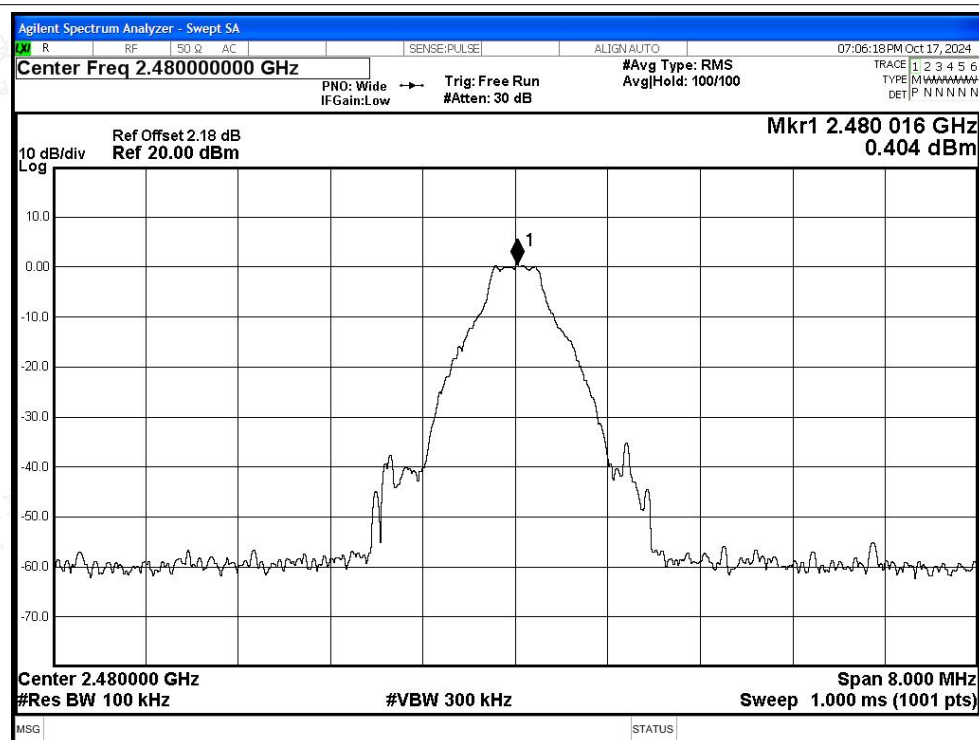
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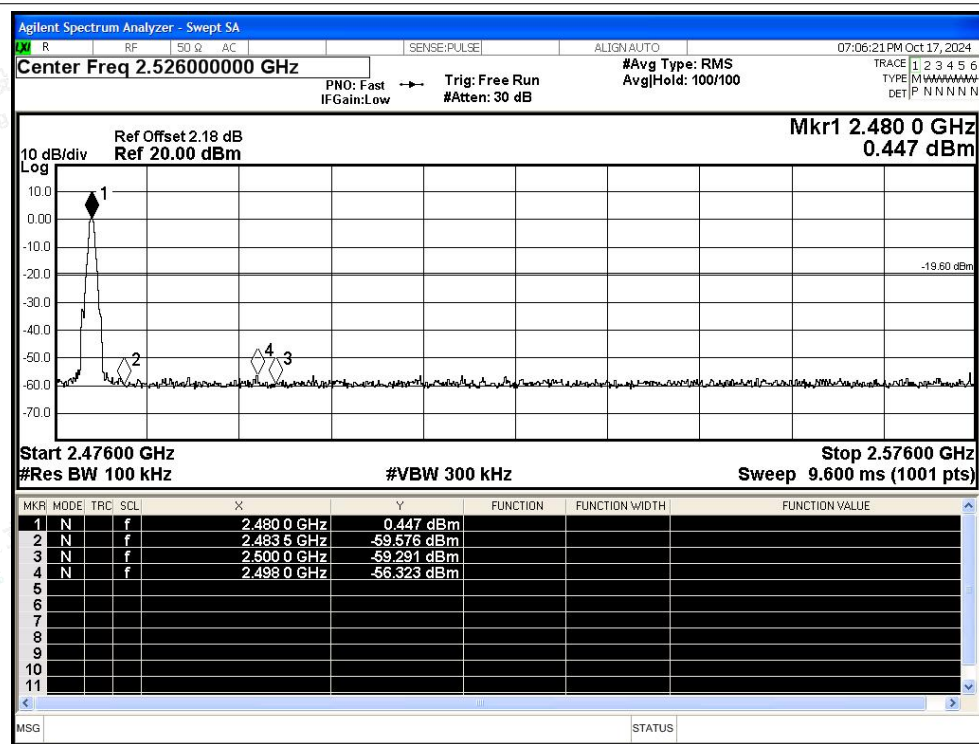
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Band Edge NVNT 2.4G 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2.4G 2480MHz Ant1 No-Hopping Emission



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**(Hopping)**

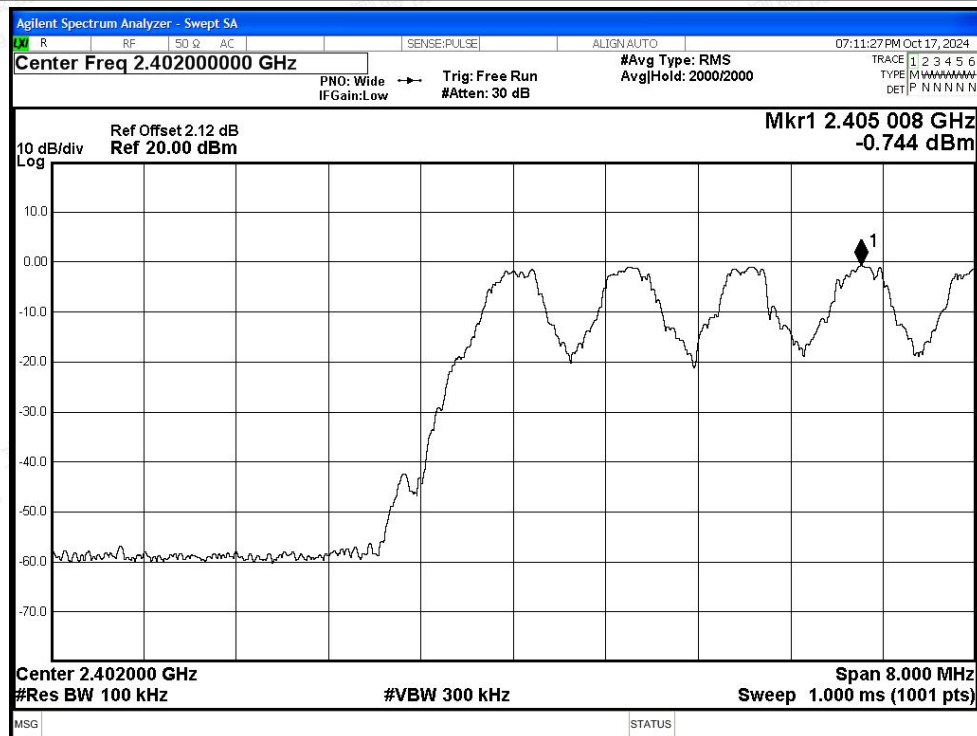
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	Hopping	-55.5	-20	Pass
NVNT	2.4G	2480	Ant1	Hopping	-56.93	-20	Pass



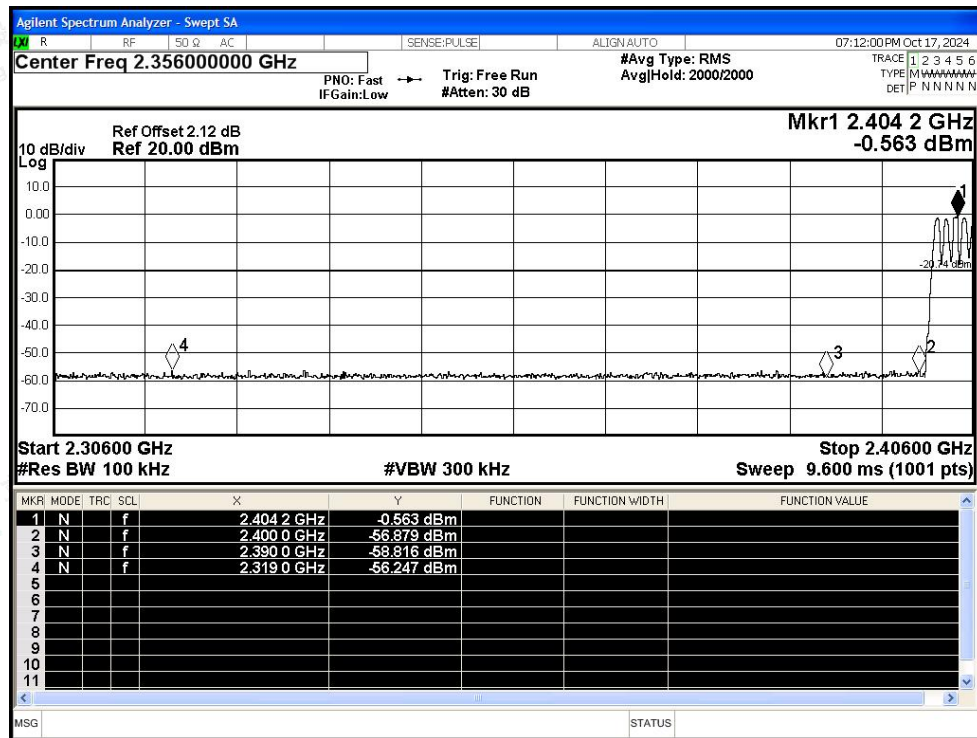


Test Graphs

Band Edge(Hopping) NVNT 2.4G 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2402MHz Ant1 Hopping Emission



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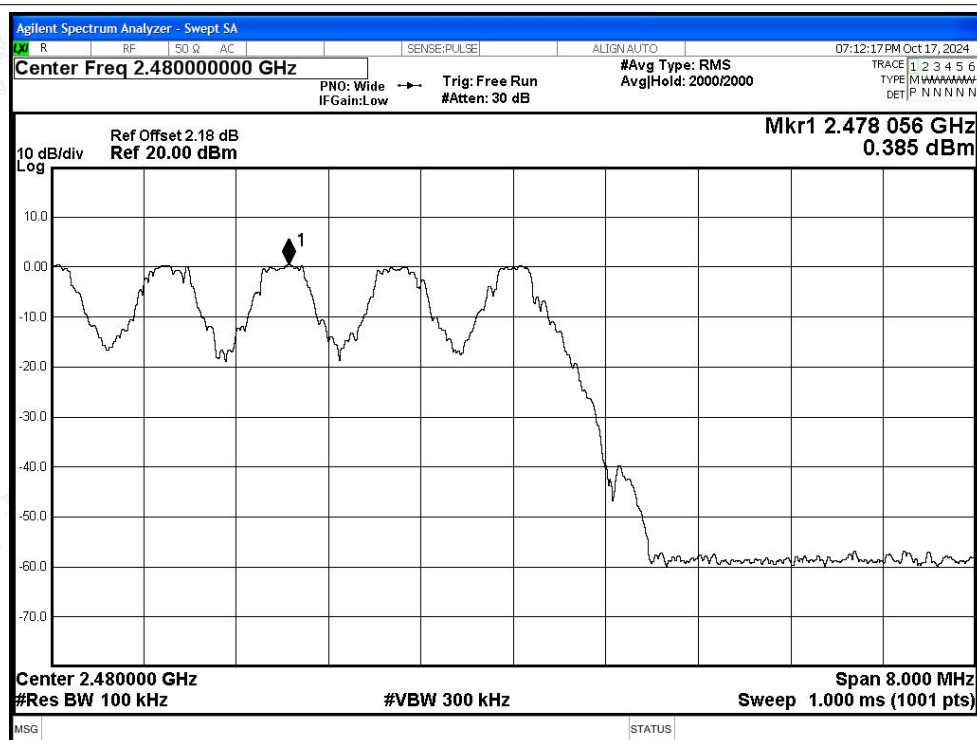
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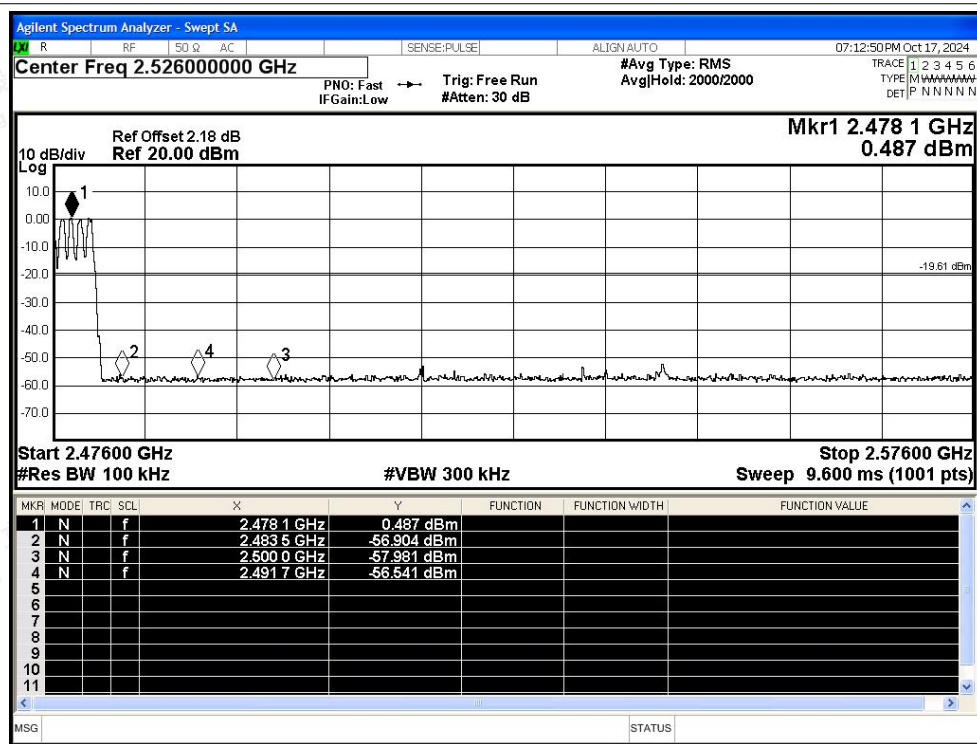
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Band Edge(Hopping) NVNT 2.4G 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2480MHz Ant1 Hopping Emission



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A.8 Conducted RF Spurious Emission

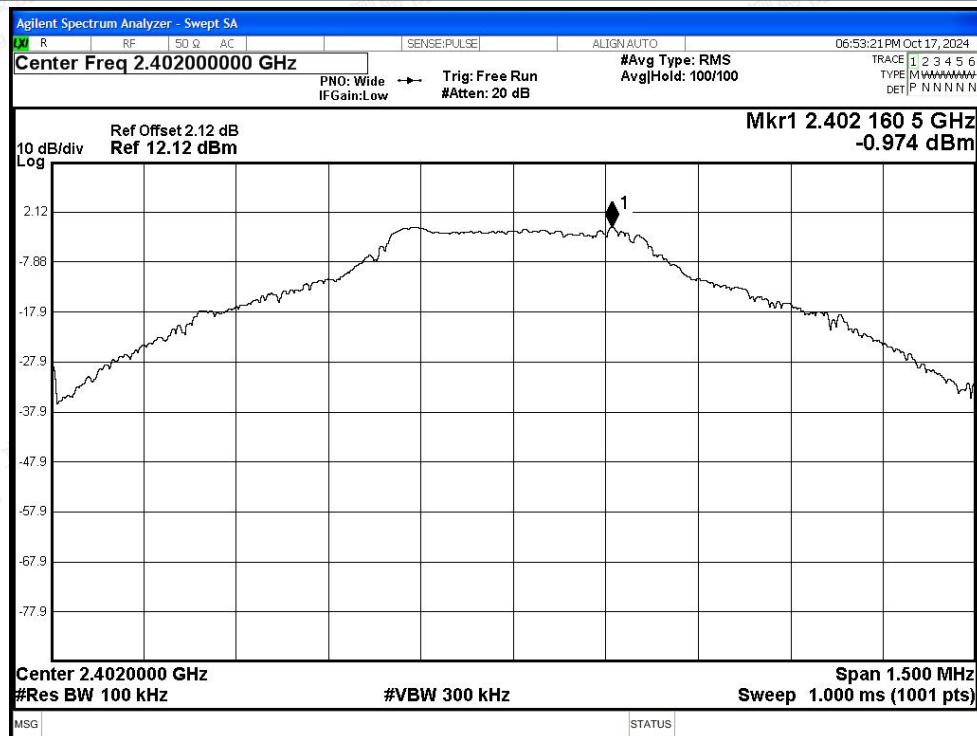
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-54.38	-20	Pass
NVNT	2.4G	2441	Ant1	-54.79	-20	Pass
NVNT	2.4G	2480	Ant1	-55.61	-20	Pass



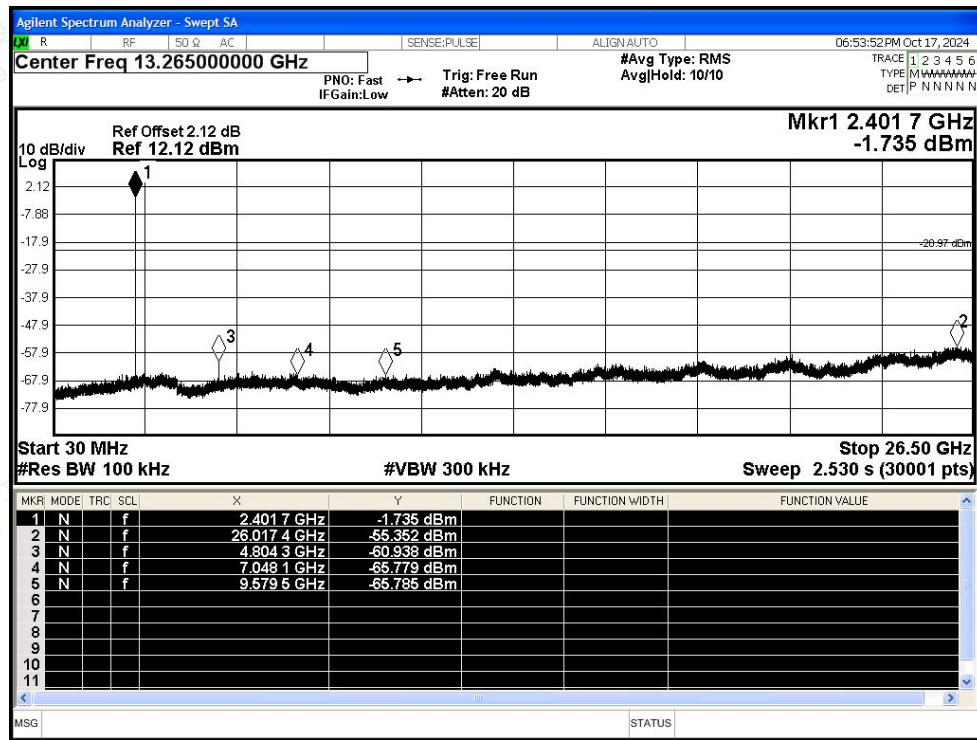


Test Graphs

Tx. Spurious NVNT 2.4G 2402MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2402MHz Ant1 Emission



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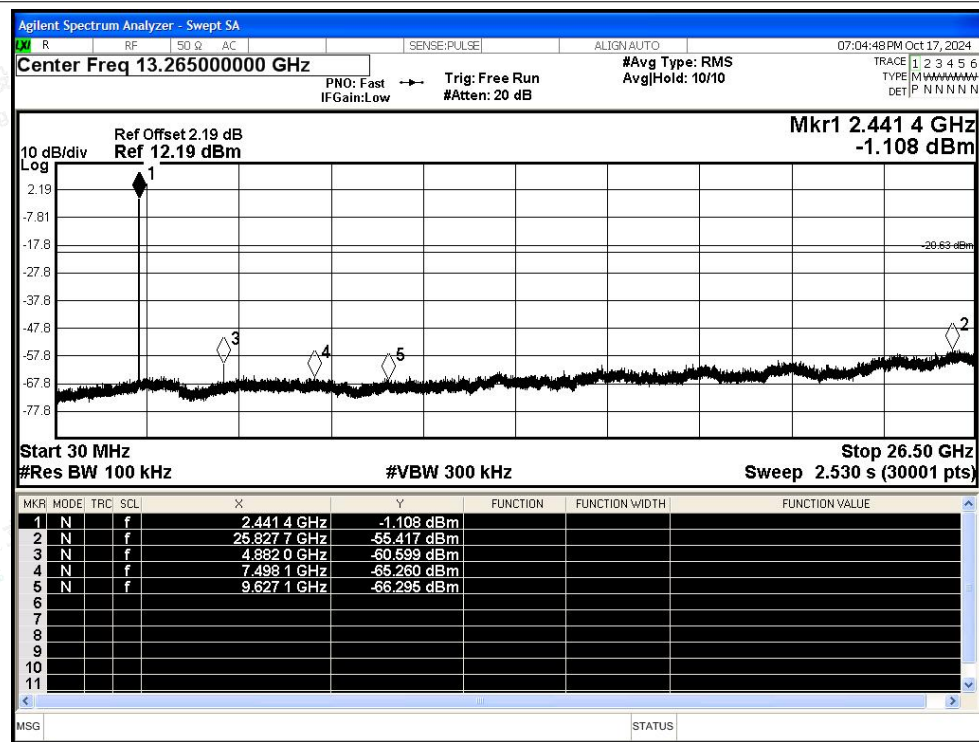
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Tx. Spurious NVNT 2.4G 2441MHz Ant1 Ref

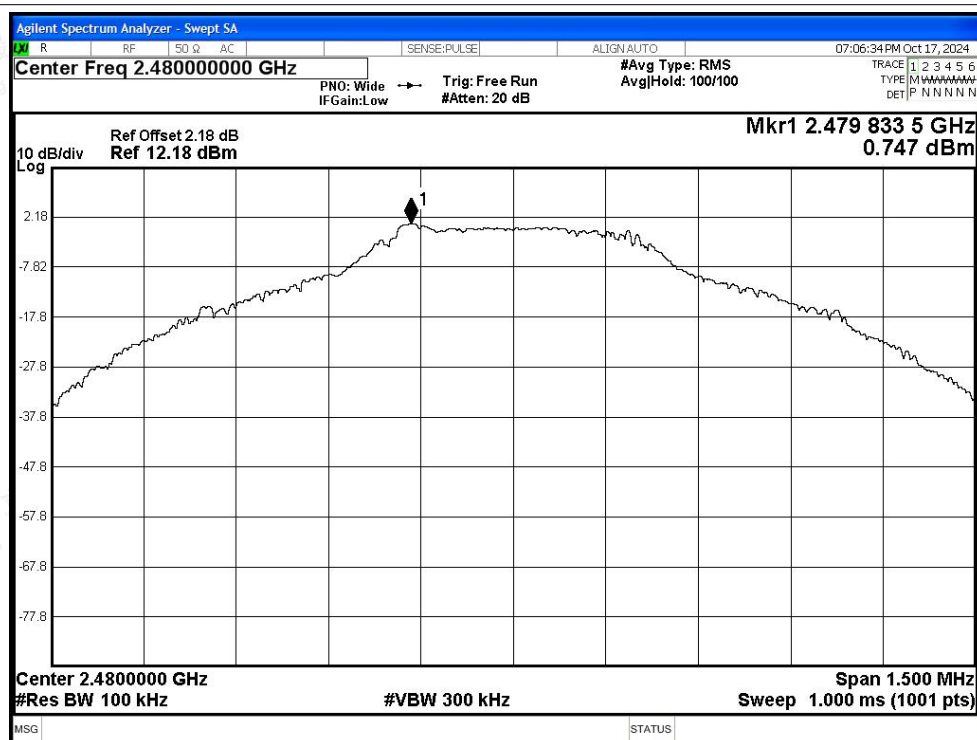


Tx. Spurious NVNT 2.4G 2441MHz Ant1 Emission

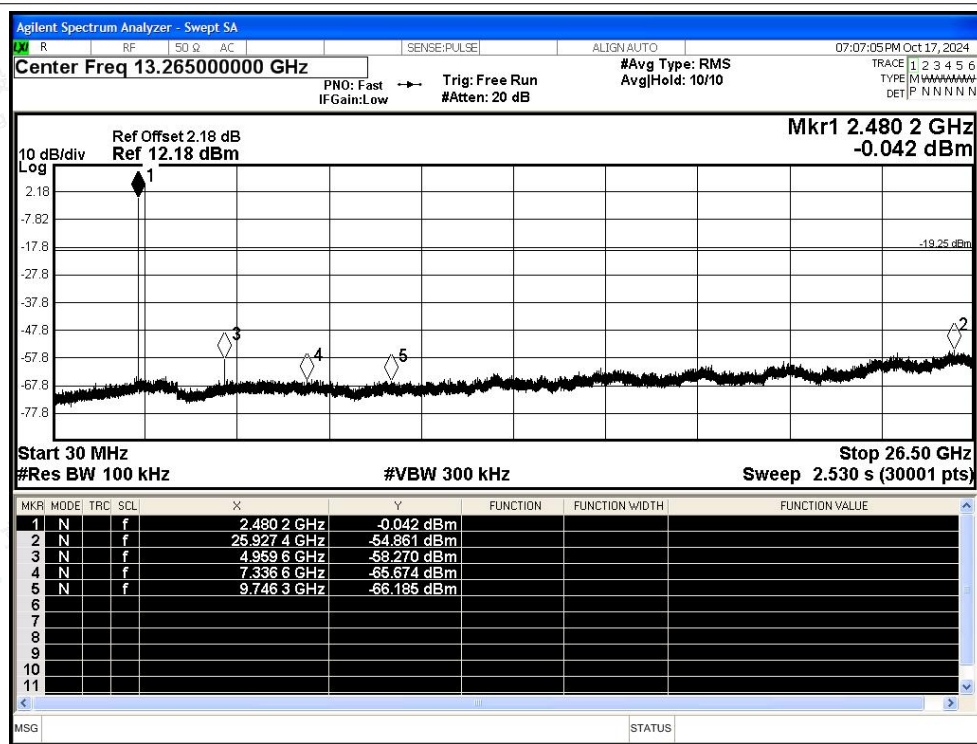




Tx. Spurious NVNT 2.4G 2480MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2480MHz Ant1 Emission



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A.9 Duty Cycle

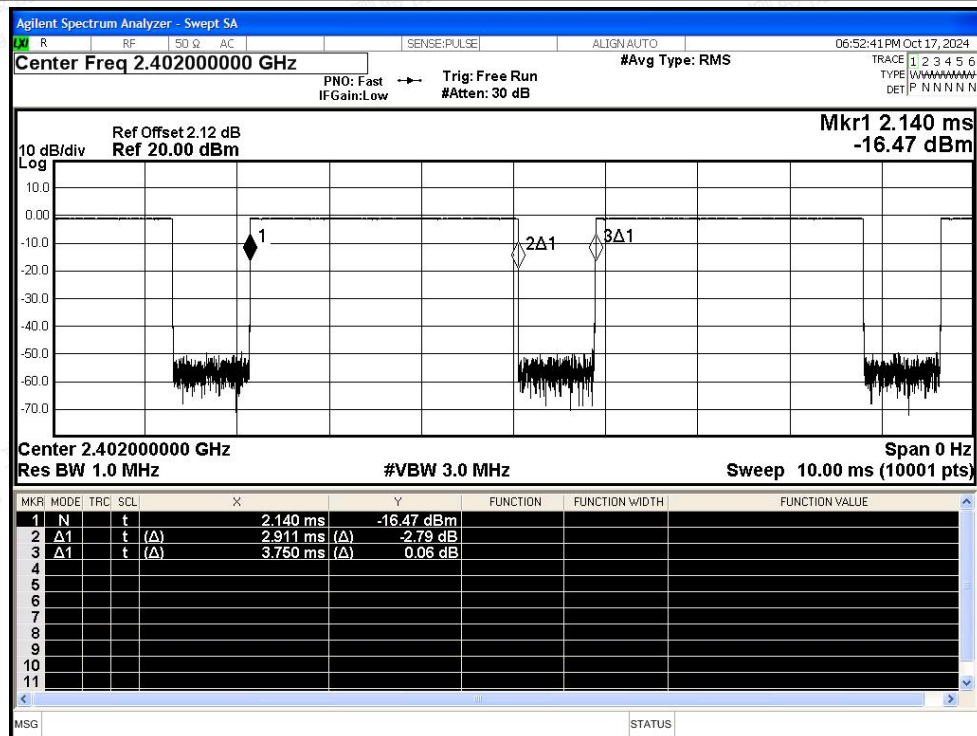
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	Ant1	77.63	1.1	0.34
NVNT	2.4G	2441	Ant1	77.6	1.1	0.34
NVNT	2.4G	2480	Ant1	77.63	1.1	0.34



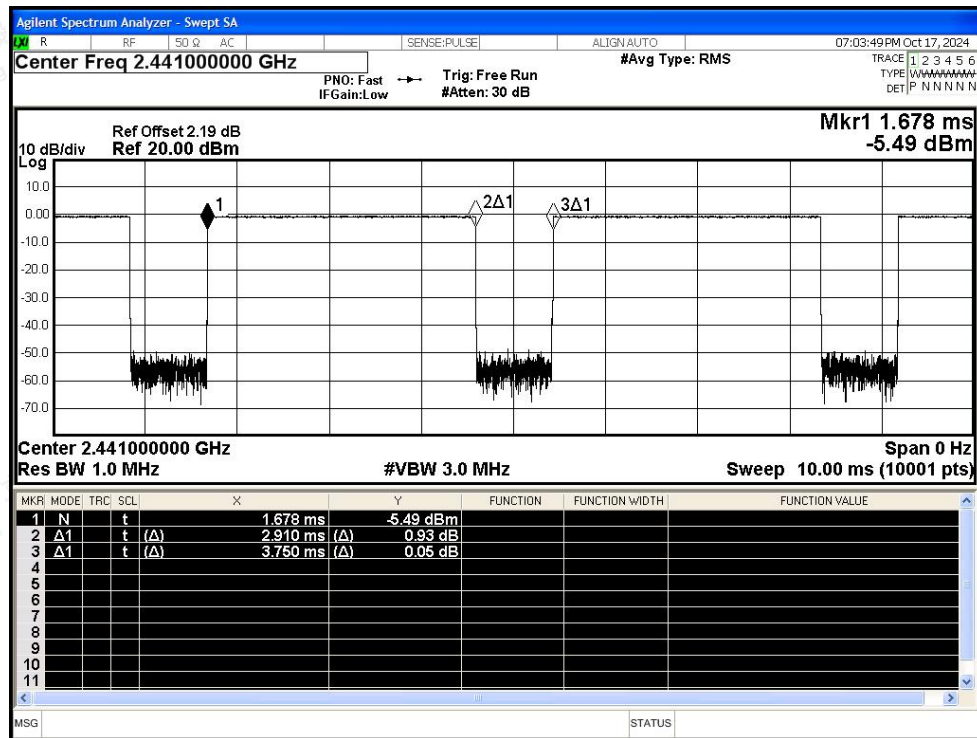


Test Graphs

Duty Cycle NVNT 2.4G 2402MHz Ant1



Duty Cycle NVNT 2.4G 2441MHz Ant1



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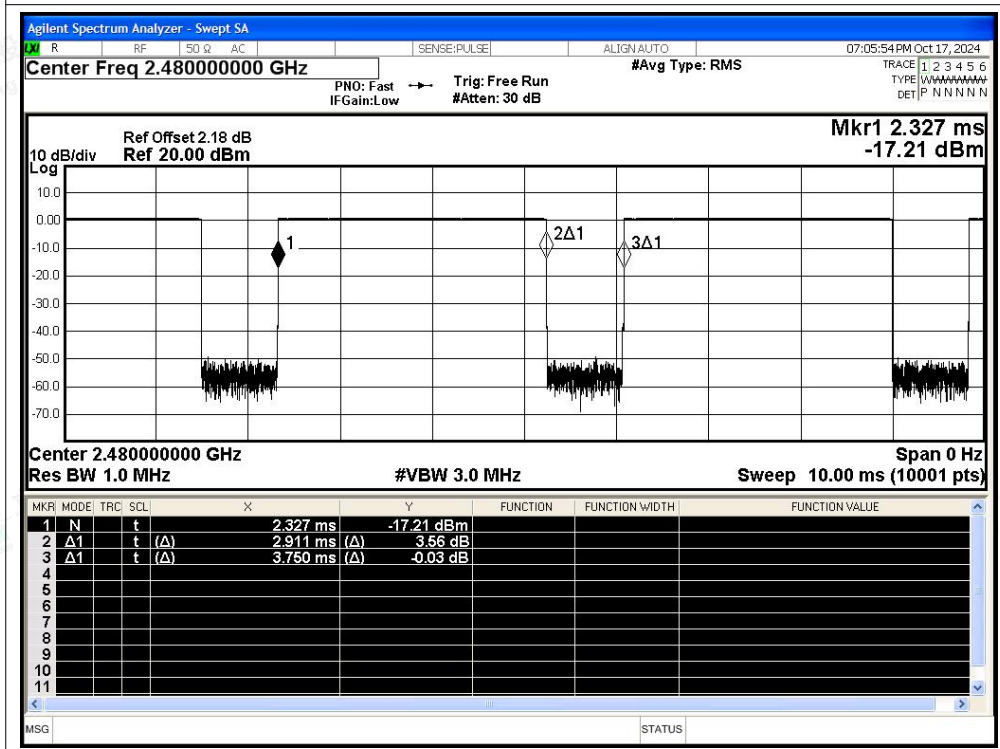
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Duty Cycle NVNT 2.4G 2480MHz Ant1





A.10 Restrict Band

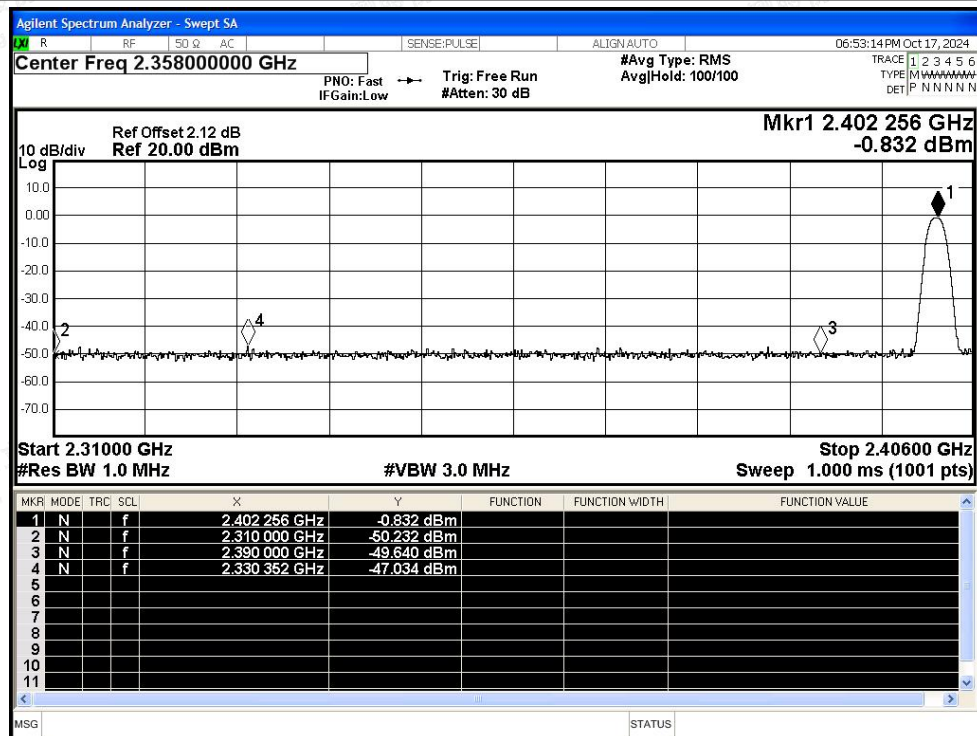
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2402	Ant1	No-Hopping	2310	-50.23	2	-	47.03	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2310	-58.28	2	1.1	40.08	Average	54	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2330.352	-47.03	2	-	50.23	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2389.296	-57.62	2	1.1	40.74	Average	54	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2390	-49.64	2	-	47.62	Peak	74	Pass
NVNT	2.4G	2402	Ant1	No-Hopping	2390	-58.46	2	1.1	39.9	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2483.5	-49.15	2	-	48.11	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2483.5	-57.66	2	1.1	40.7	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2483.992	-46.65	2	-	50.61	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2487.088	-57.16	2	1.1	41.2	Average	54	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2500	-48.72	2	-	48.54	Peak	74	Pass
NVNT	2.4G	2480	Ant1	No-Hopping	2500	-57.6	2	1.1	40.76	Average	54	Pass



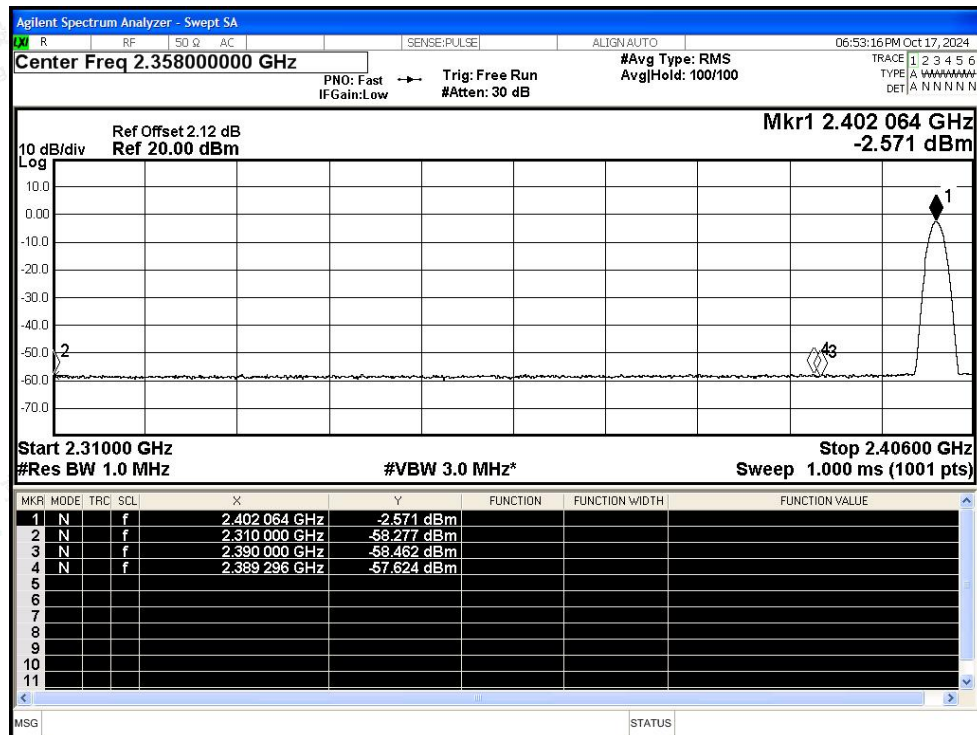


Test Graphs

Restrict Band NVNT 2.4G 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2.4G 2402MHz Ant1 No-Hopping Average



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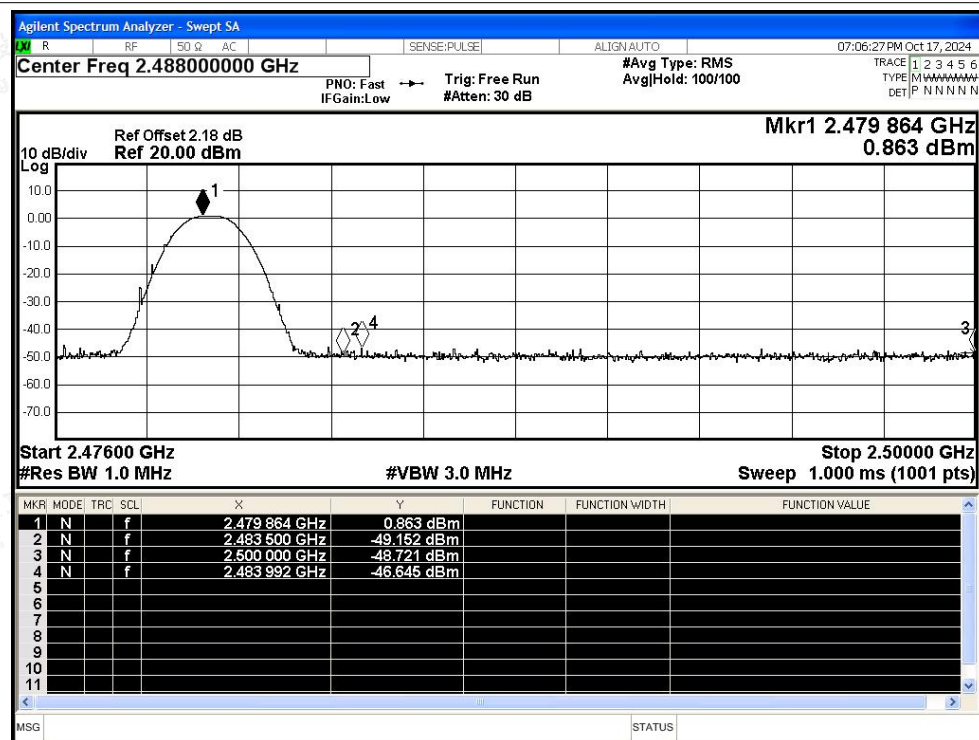
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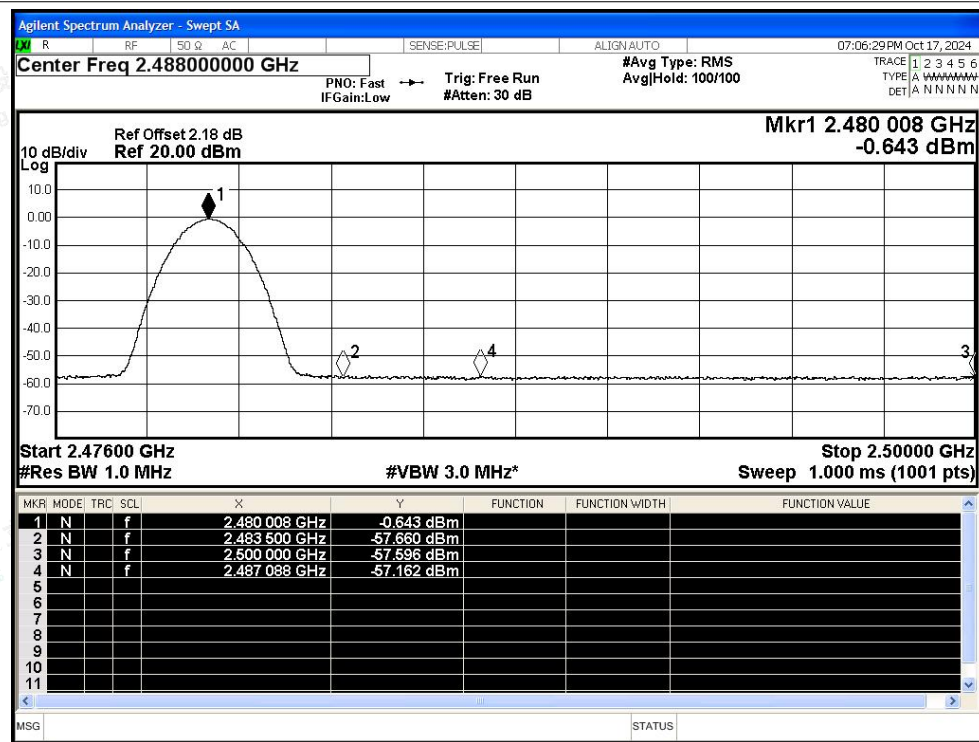
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Restrict Band NVNT 2.4G 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2.4G 2480MHz Ant1 No-Hopping Average



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