



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BT Smart Watch

Test Model: MW909 Pro

Environmental Conditions

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





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.95	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.976	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.943	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.309	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.281	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

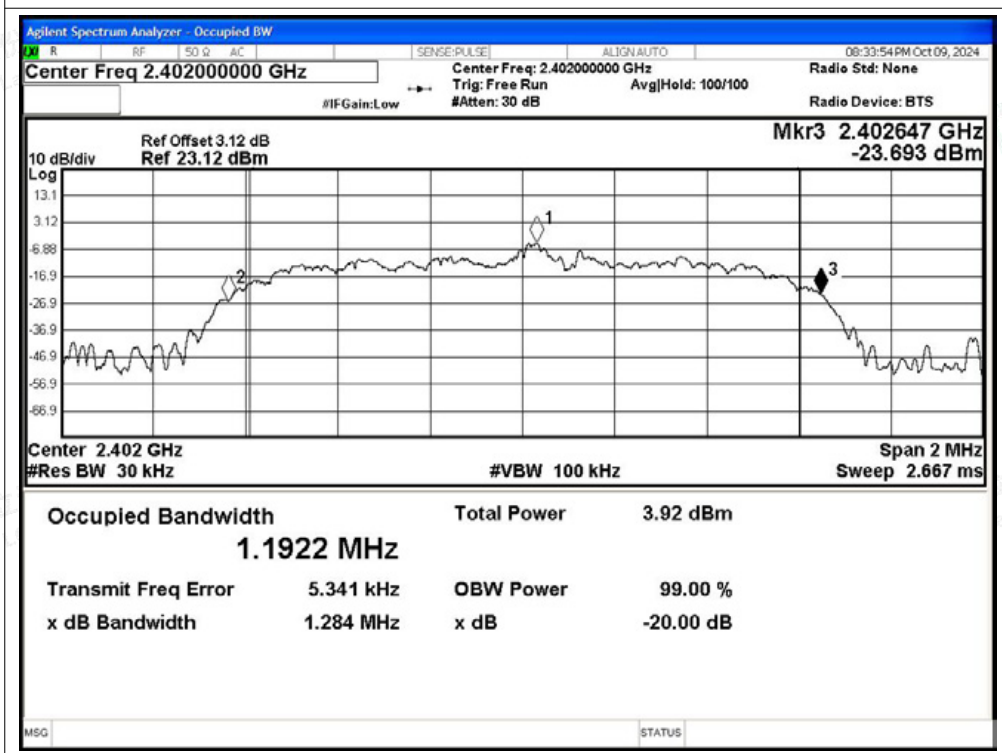




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

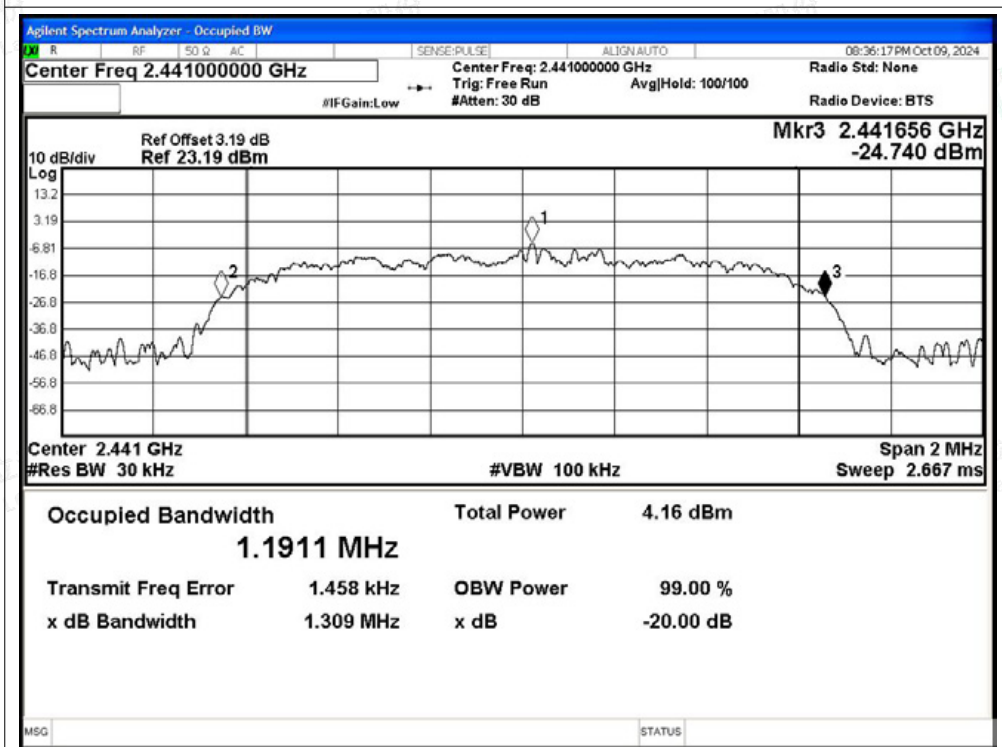


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

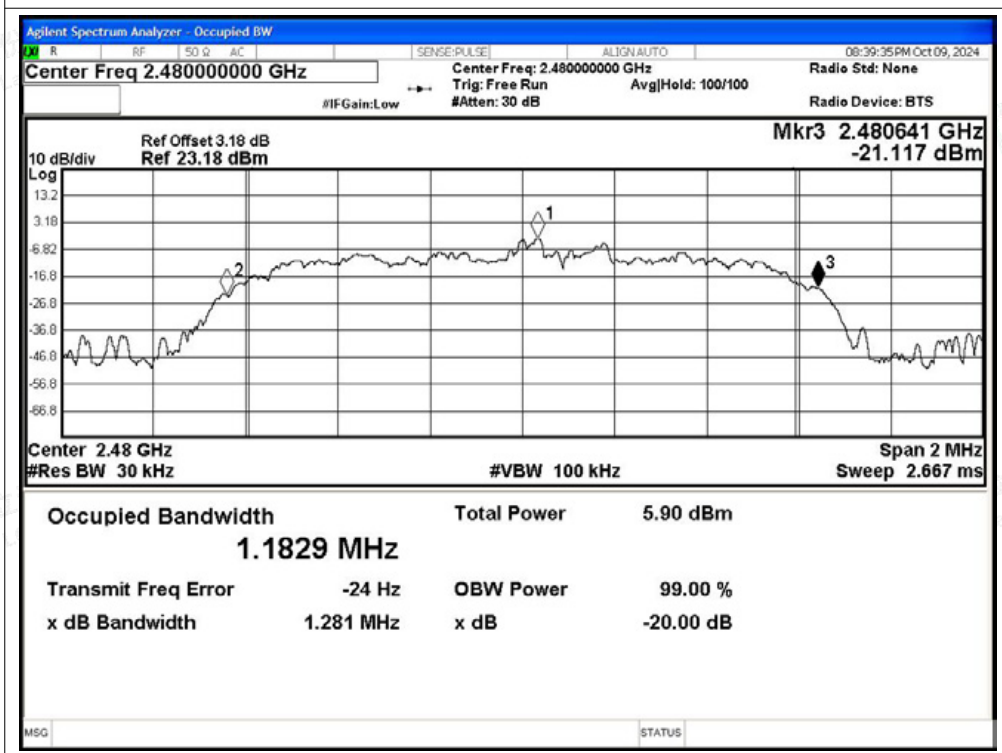




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.26	21	Pass
NVNT	1-DH5	2441	Ant1	0.72	21	Pass
NVNT	1-DH5	2480	Ant1	-0.36	21	Pass
NVNT	2-DH5	2402	Ant1	-0.47	21	Pass
NVNT	2-DH5	2441	Ant1	0.07	21	Pass
NVNT	2-DH5	2480	Ant1	1.36	21	Pass

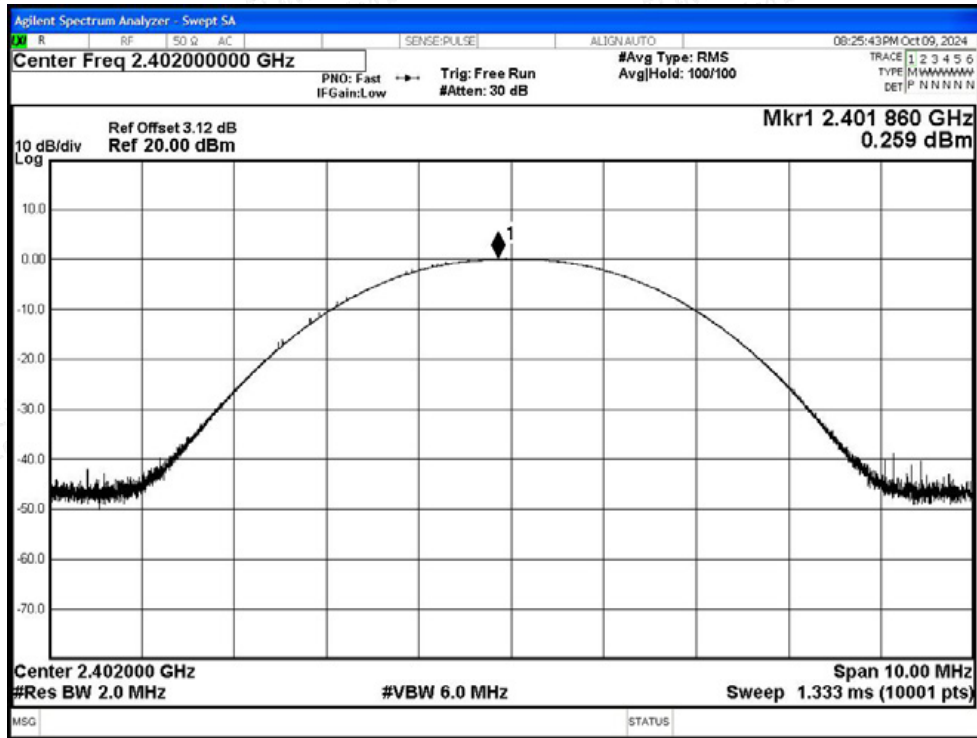


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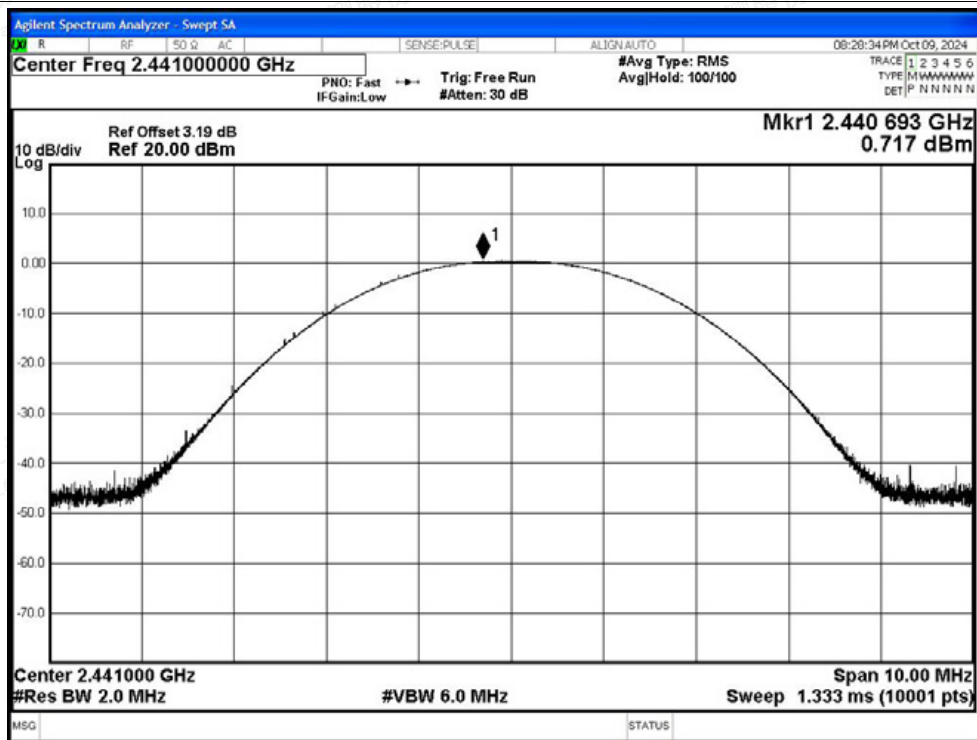


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

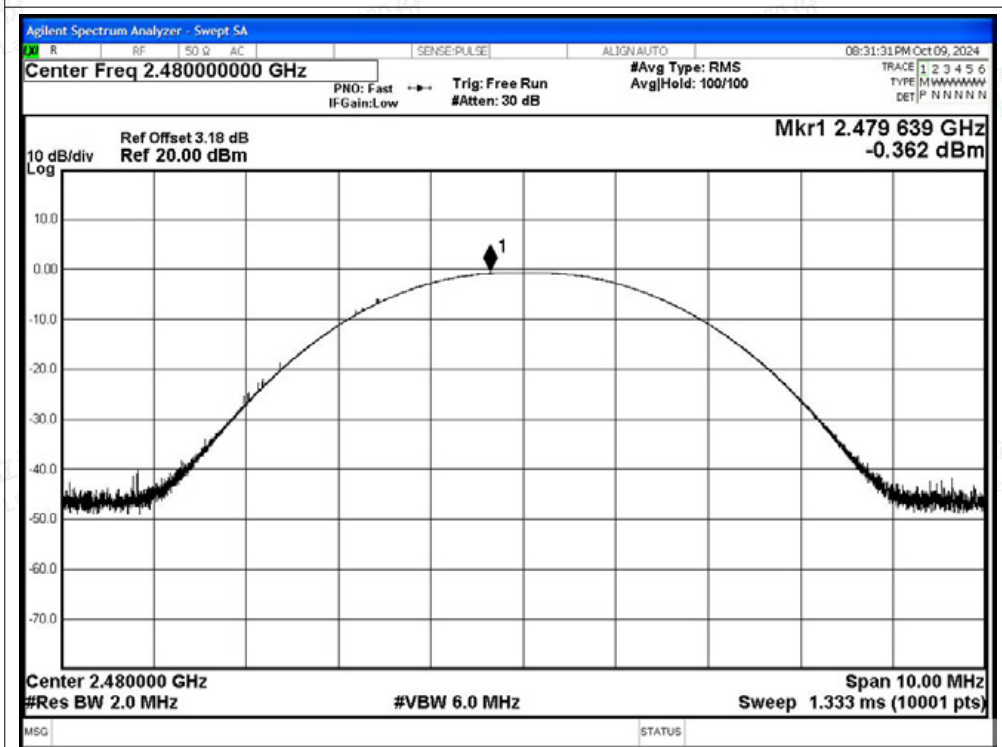


Power NVNT 1-DH5 2441MHz Ant1

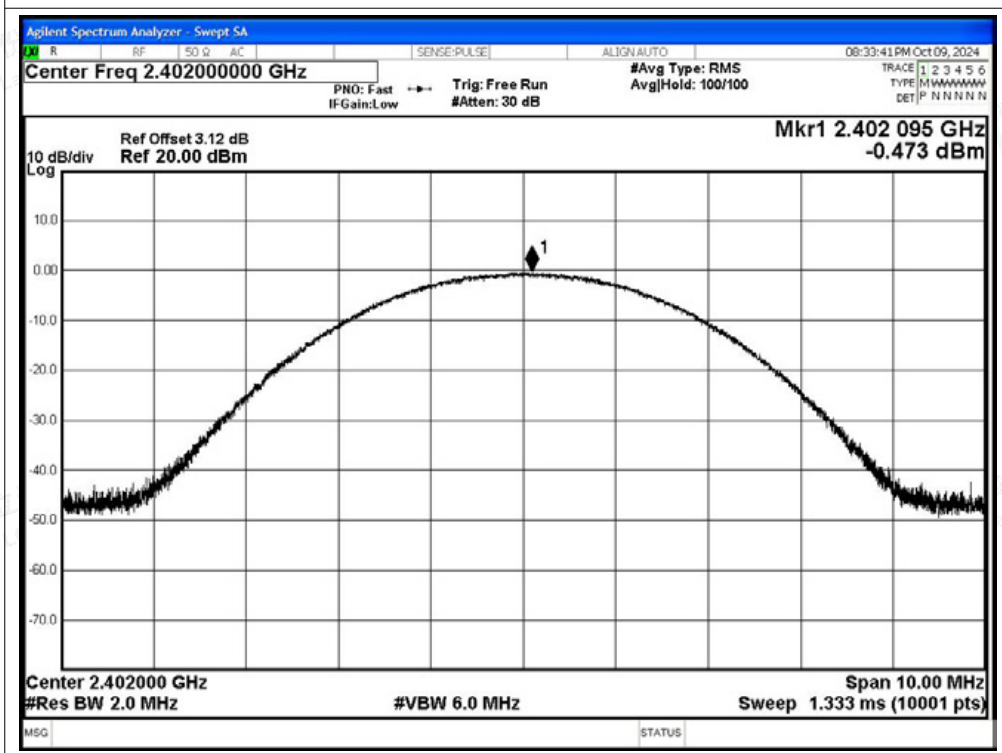




Power NVNT 1-DH5 2480MHz Ant1

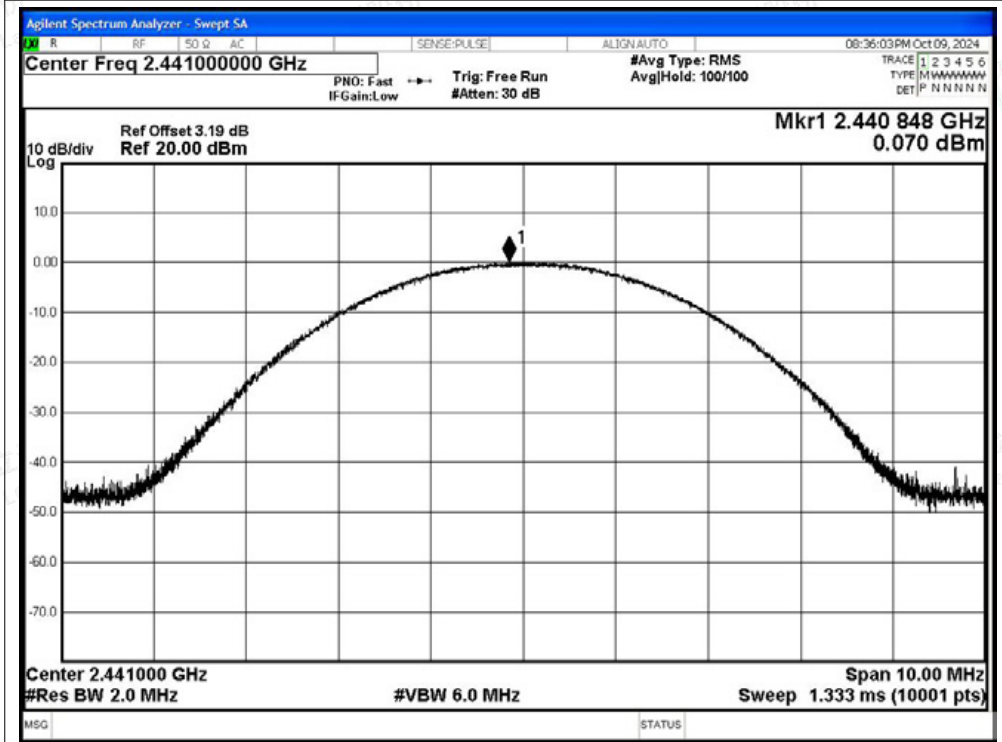


Power NVNT 2-DH5 2402MHz Ant1

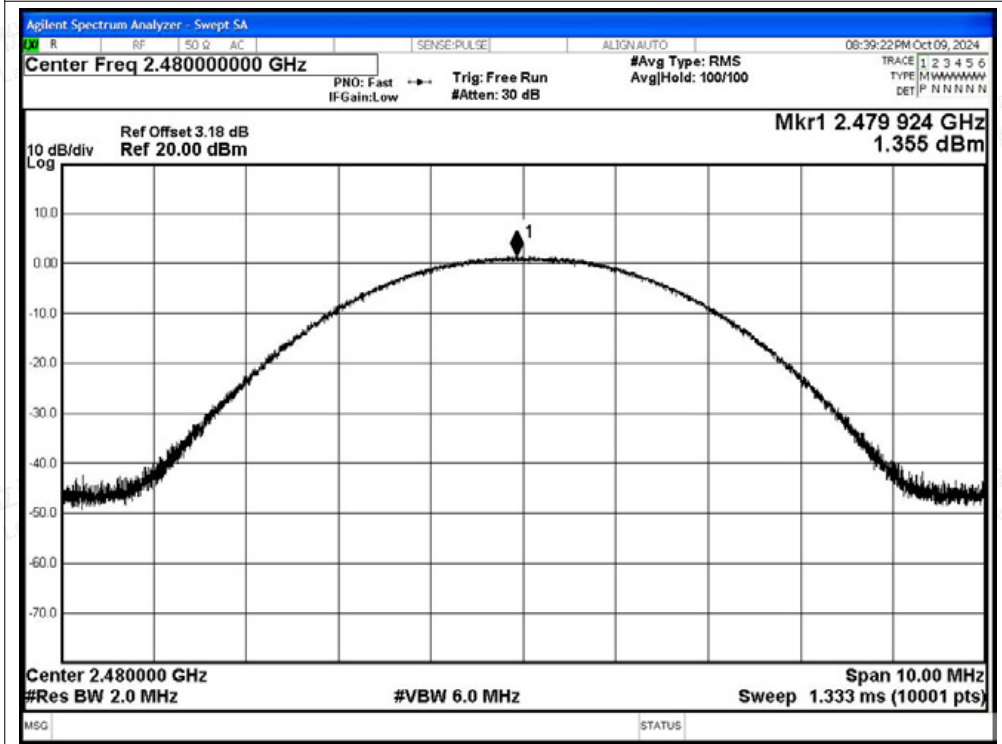




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.83	2403.02	1.19	0.651	Pass
NVNT	2-DH5	Ant1	2402.042	2403.008	0.966	0.873	Pass

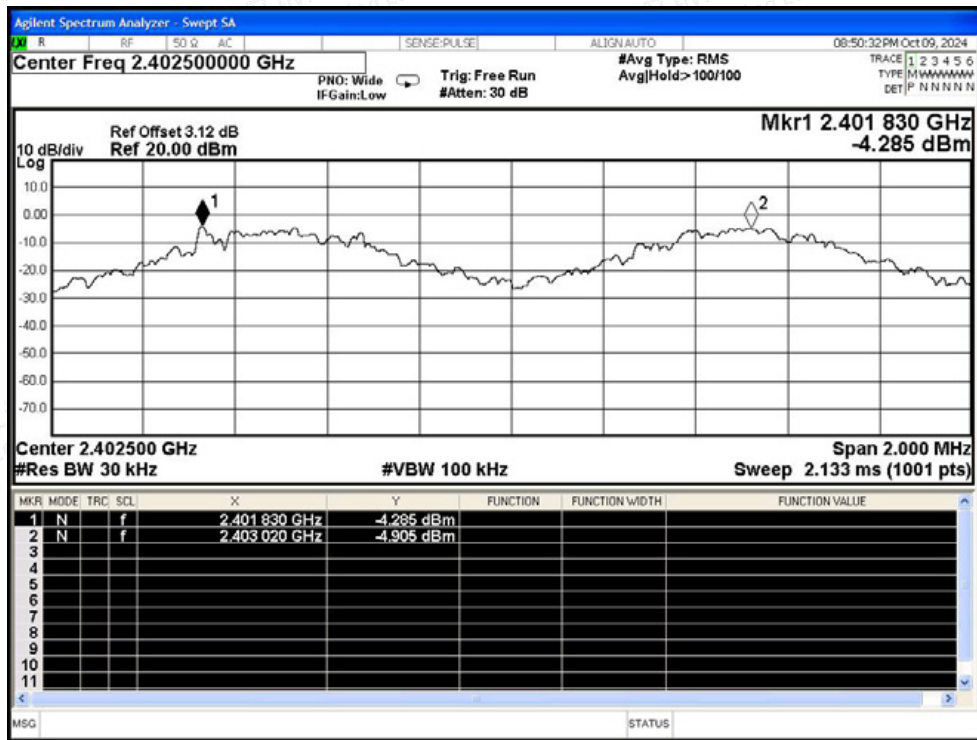


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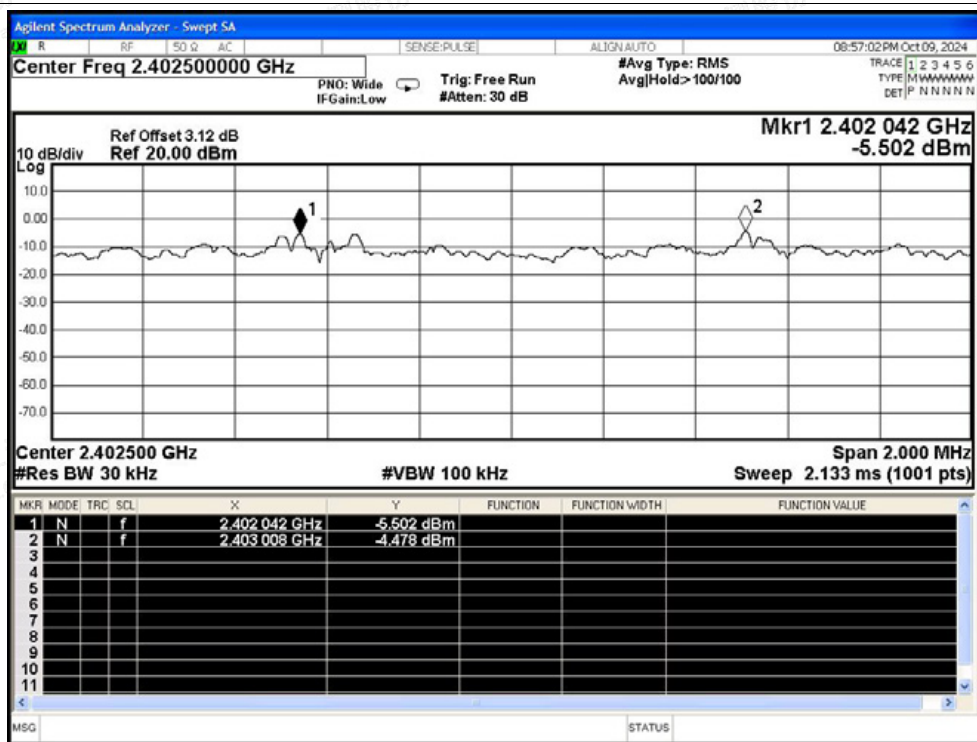


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



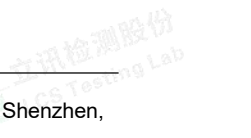
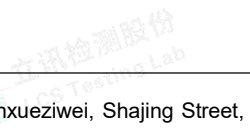
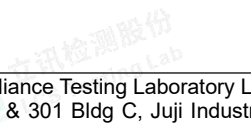
CFS NVNT 2-DH5 2402MHz Ant1





A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	325.92	112	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	272.412	94	31600	400	Pass

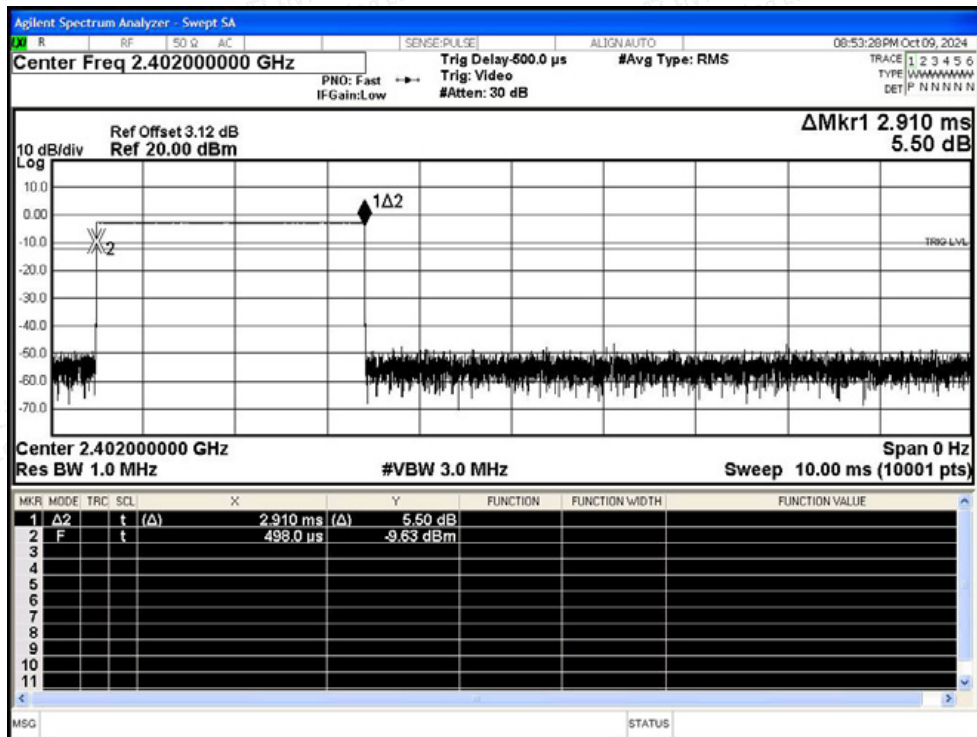


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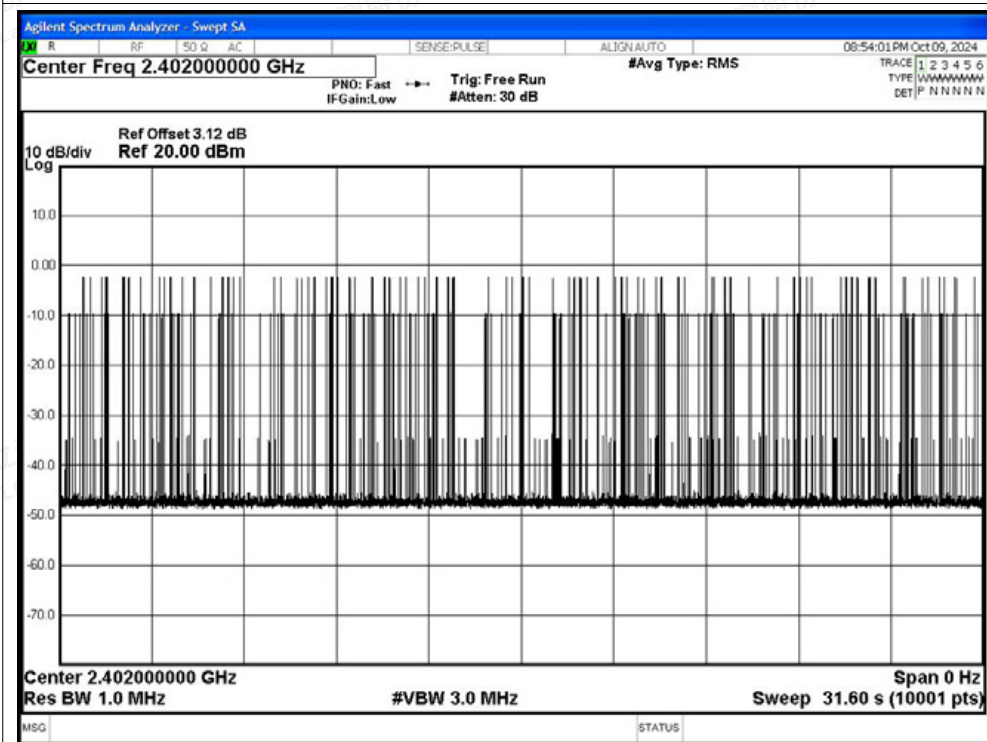


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

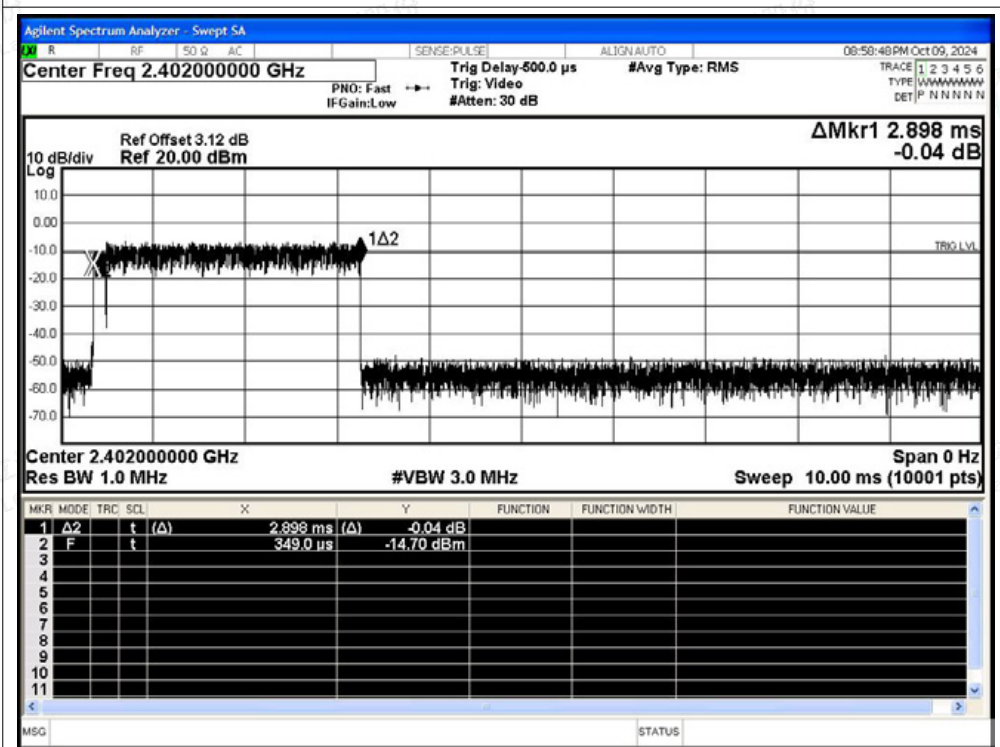


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

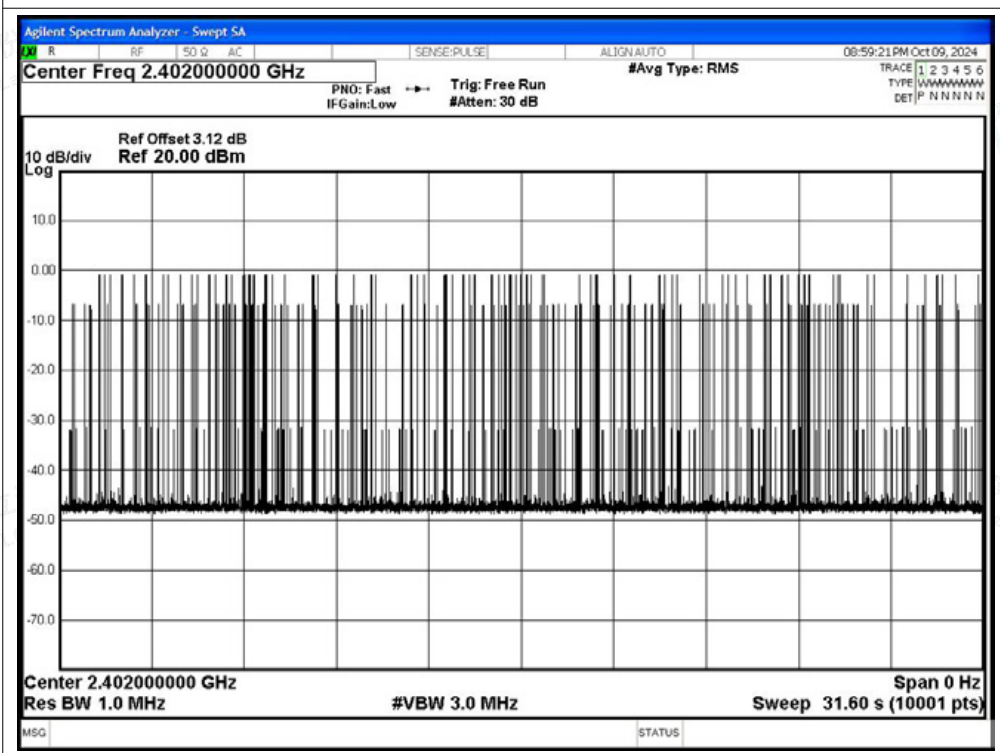




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass

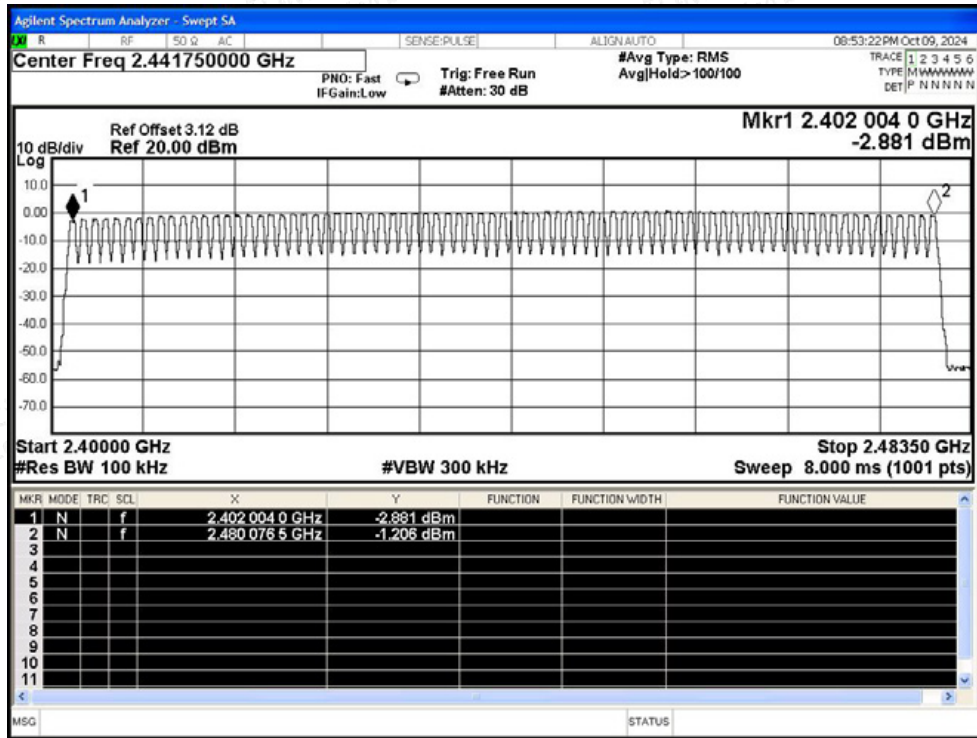


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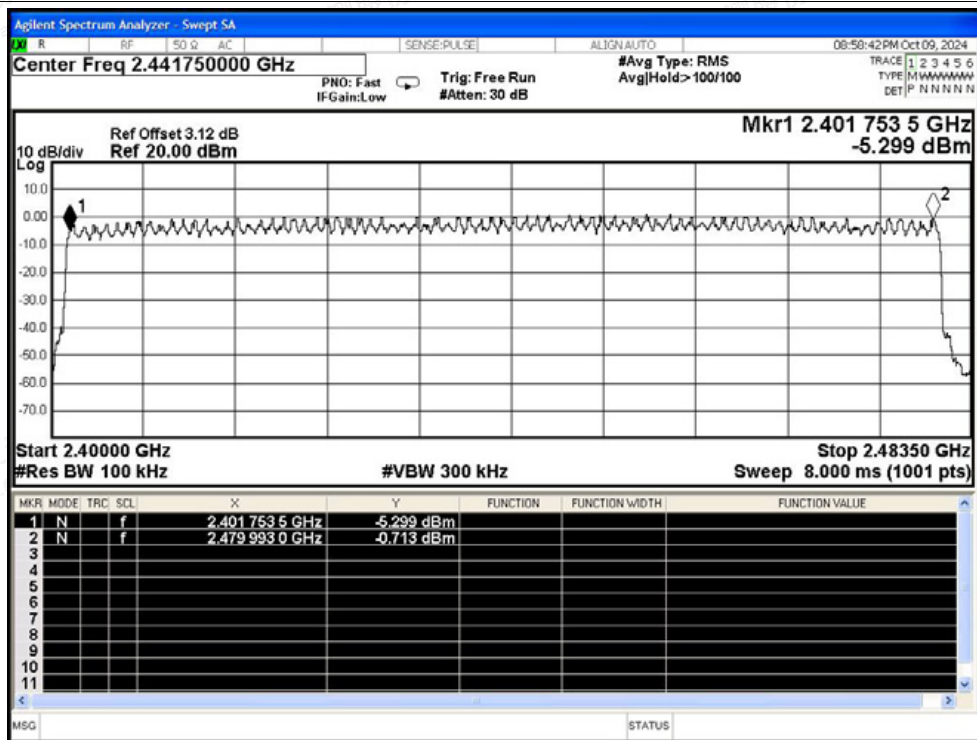


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.48	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.17	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.96	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.99	-20	Pass

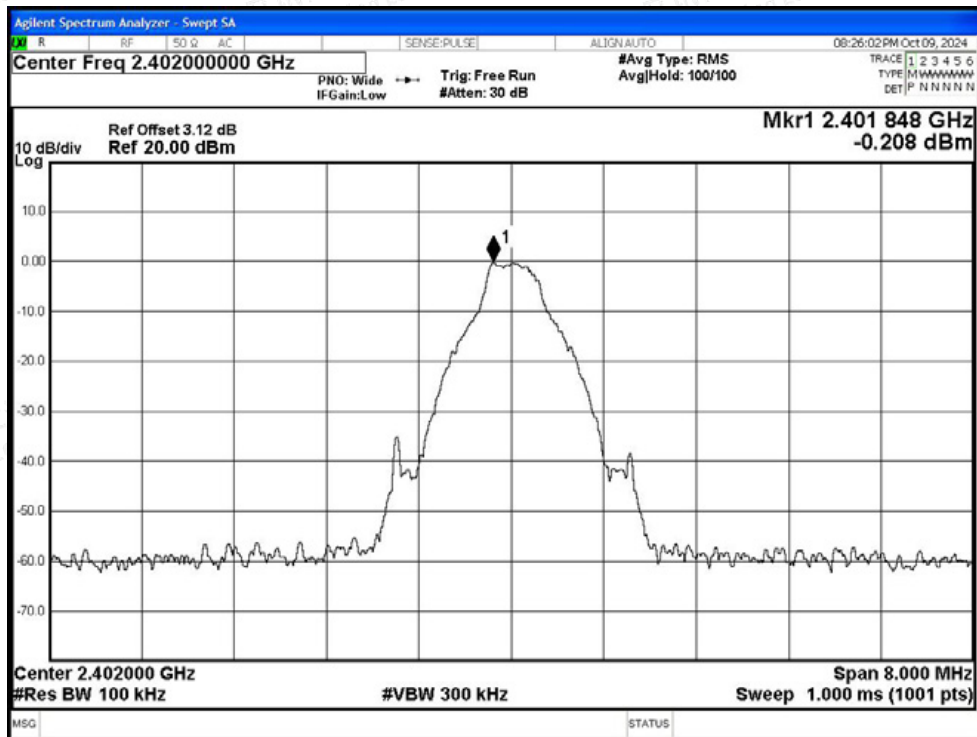


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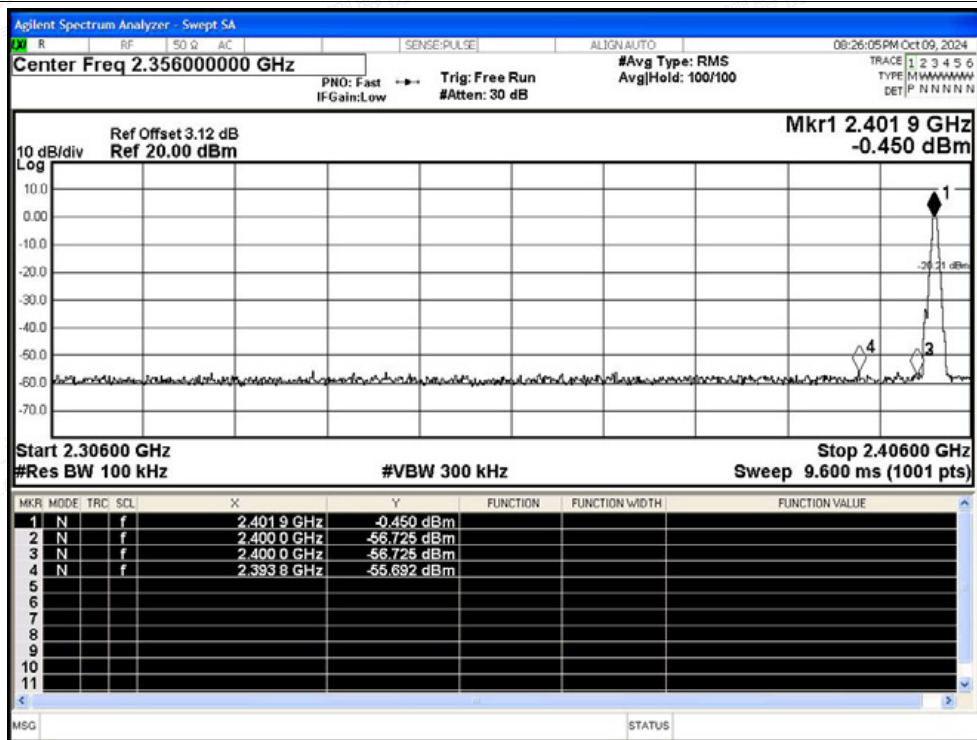


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

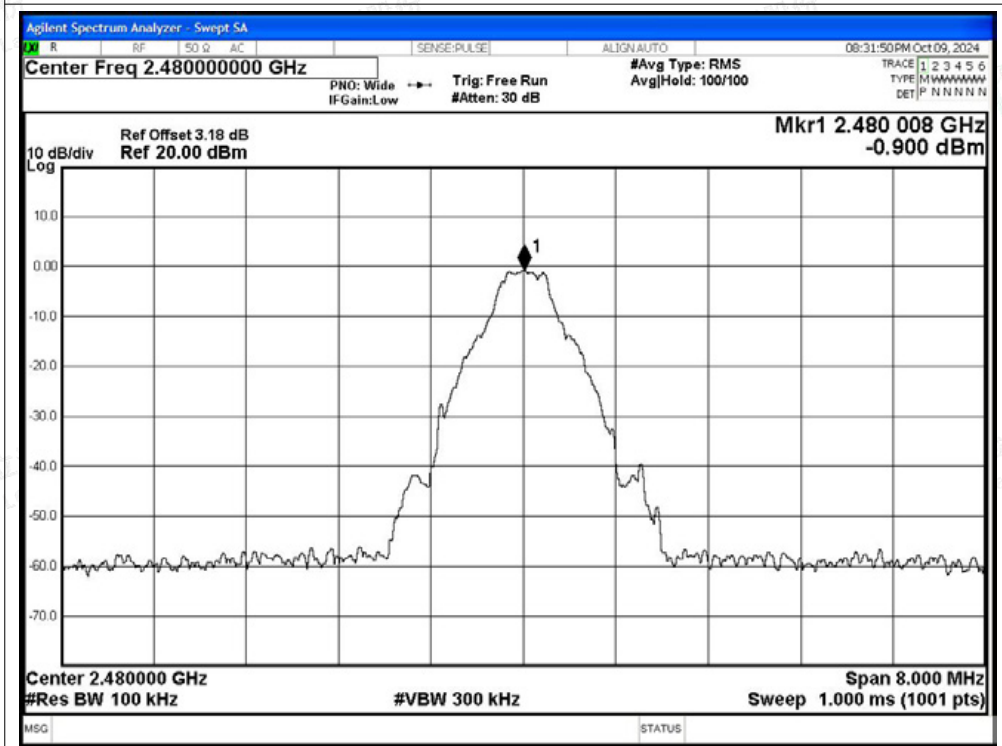


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

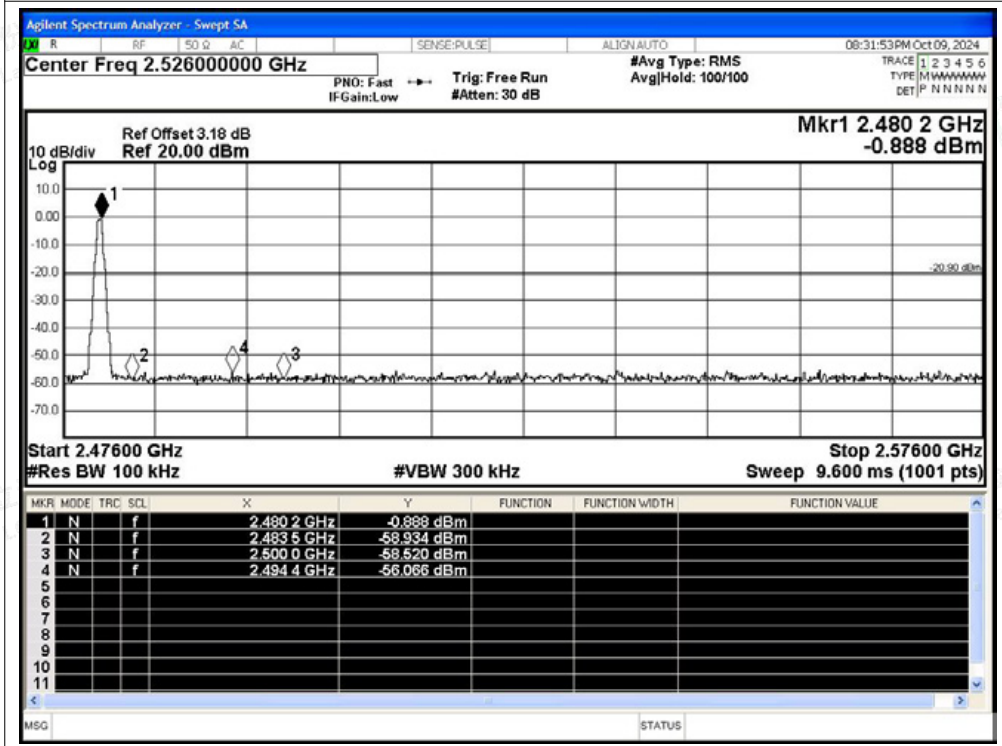




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

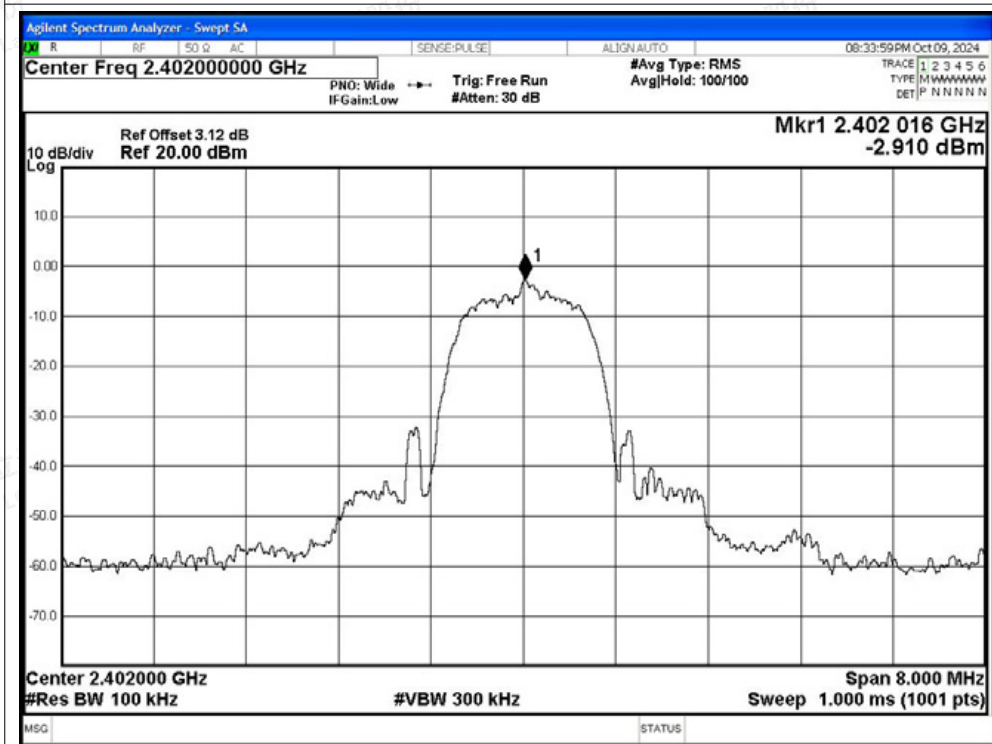


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

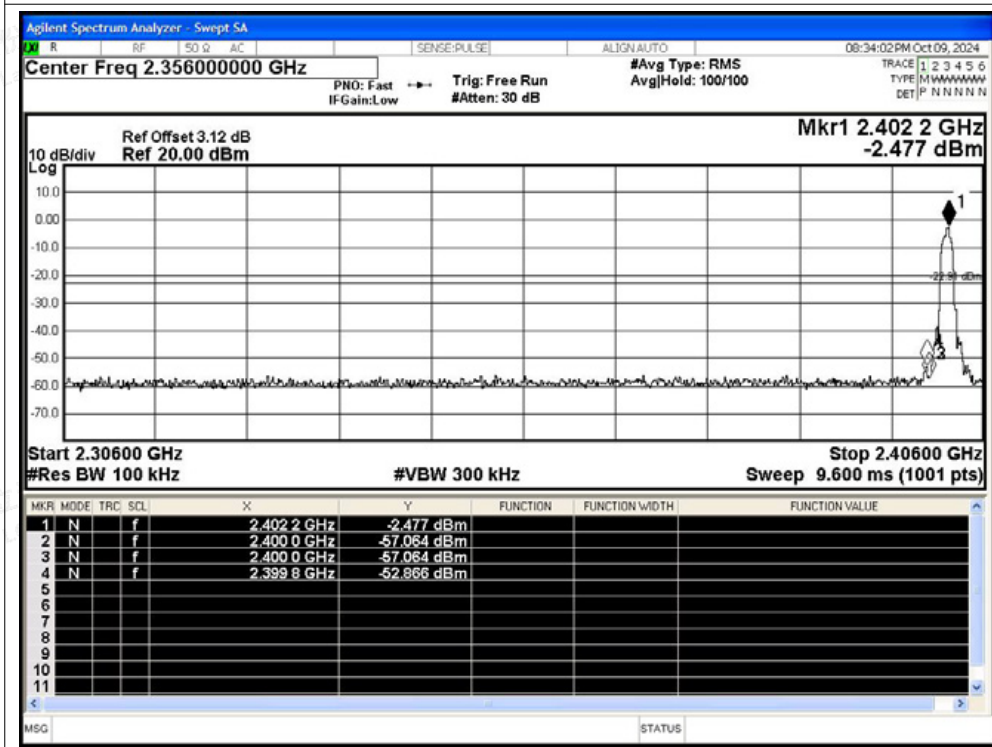




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

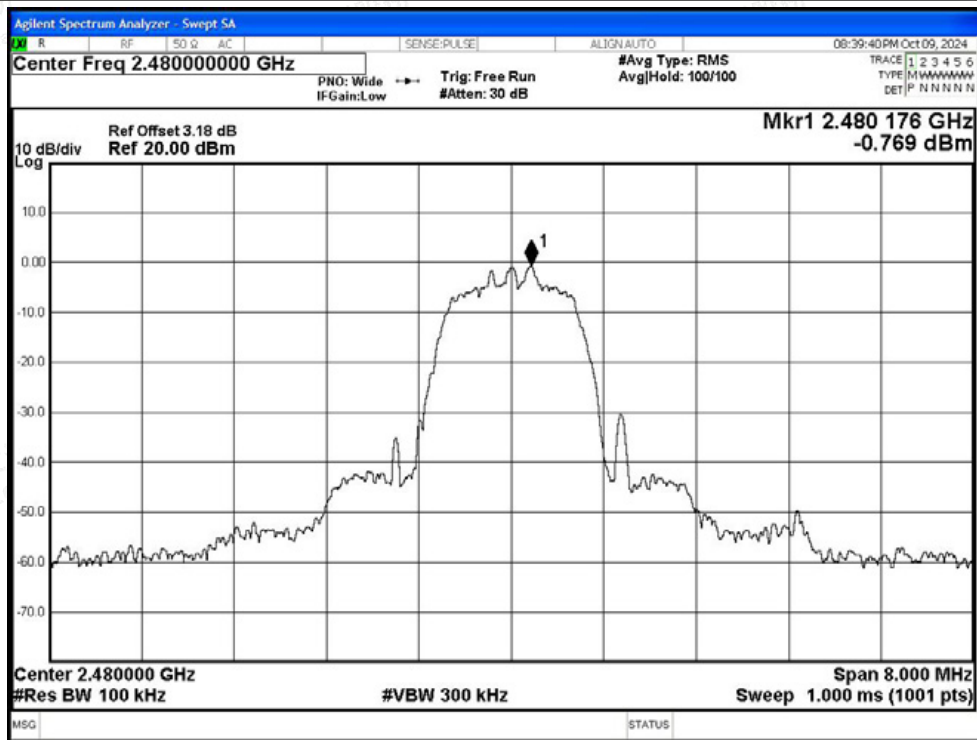


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

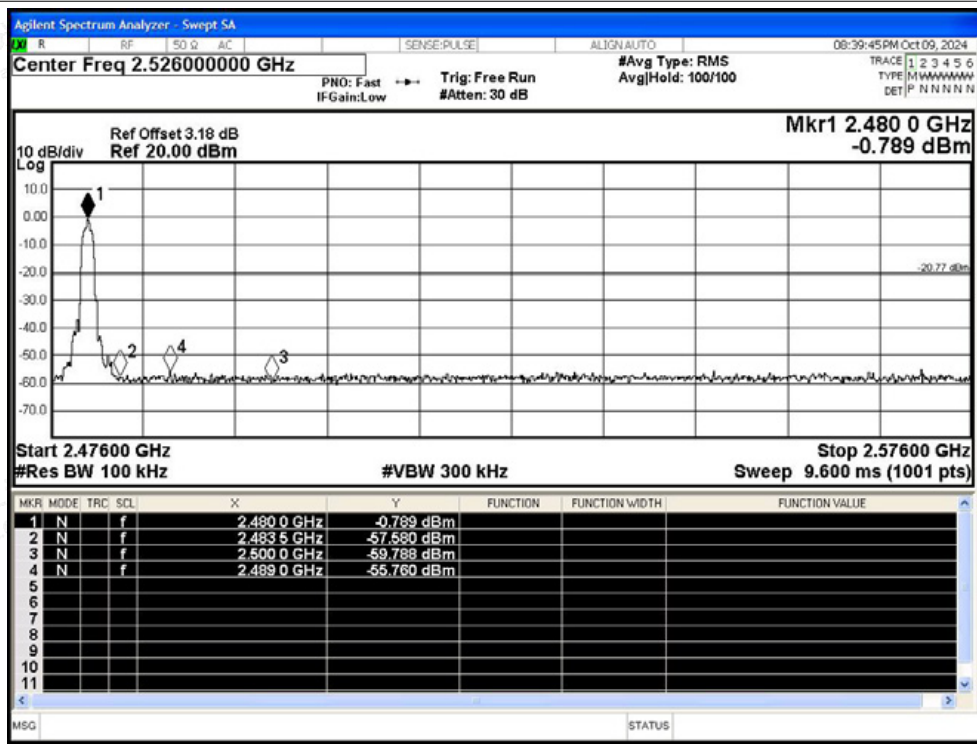




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.83	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.35	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.73	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.21	-20	Pass

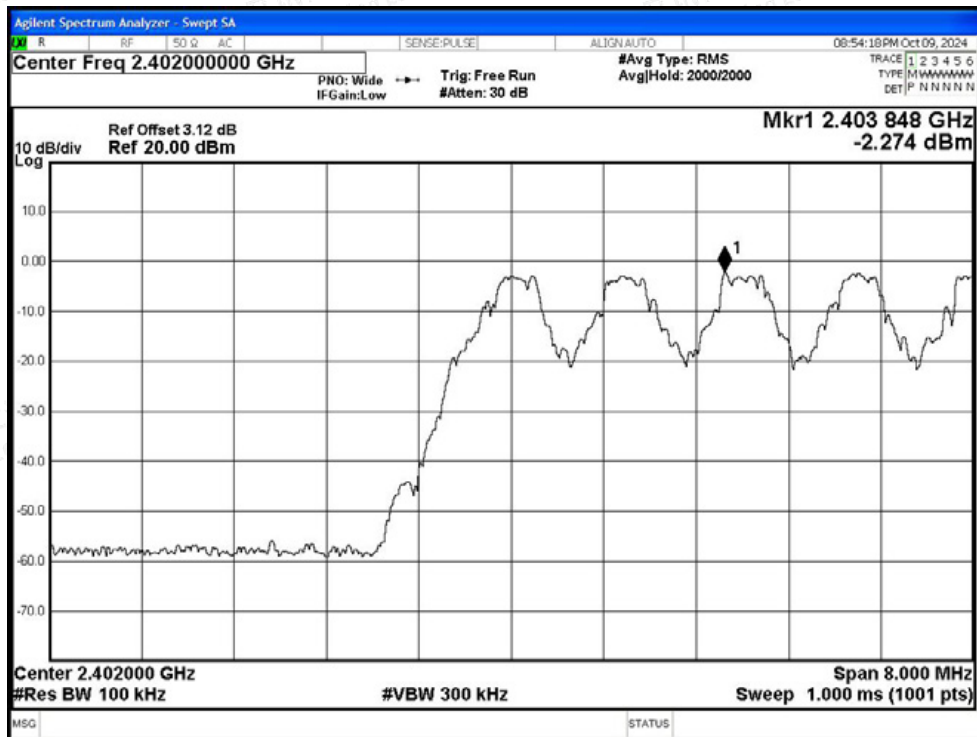


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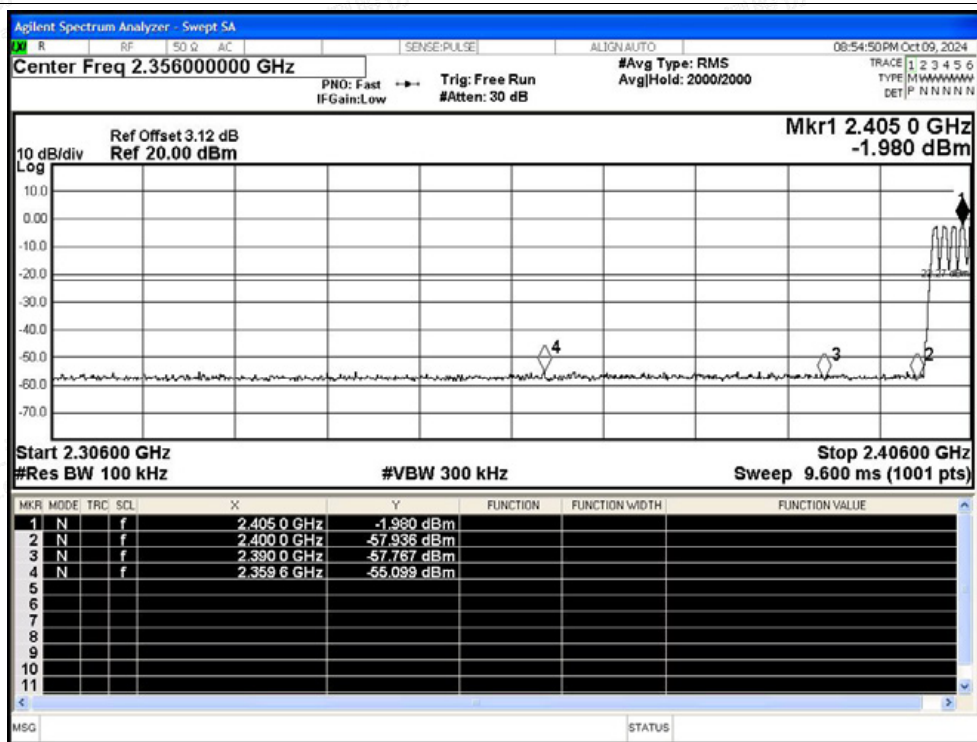


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

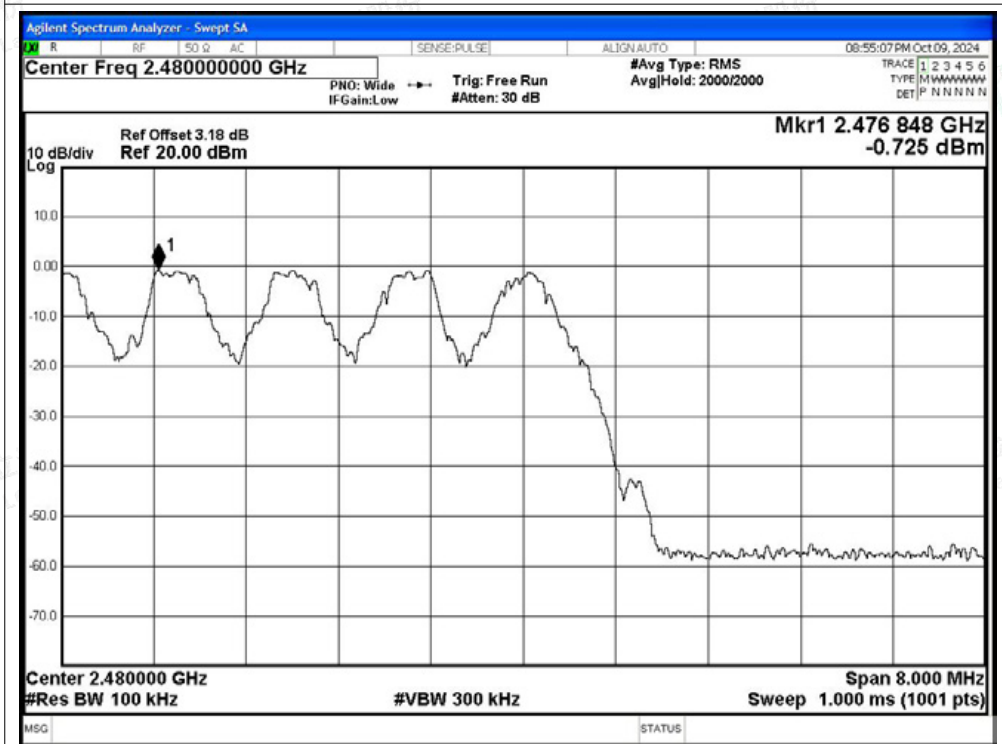


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

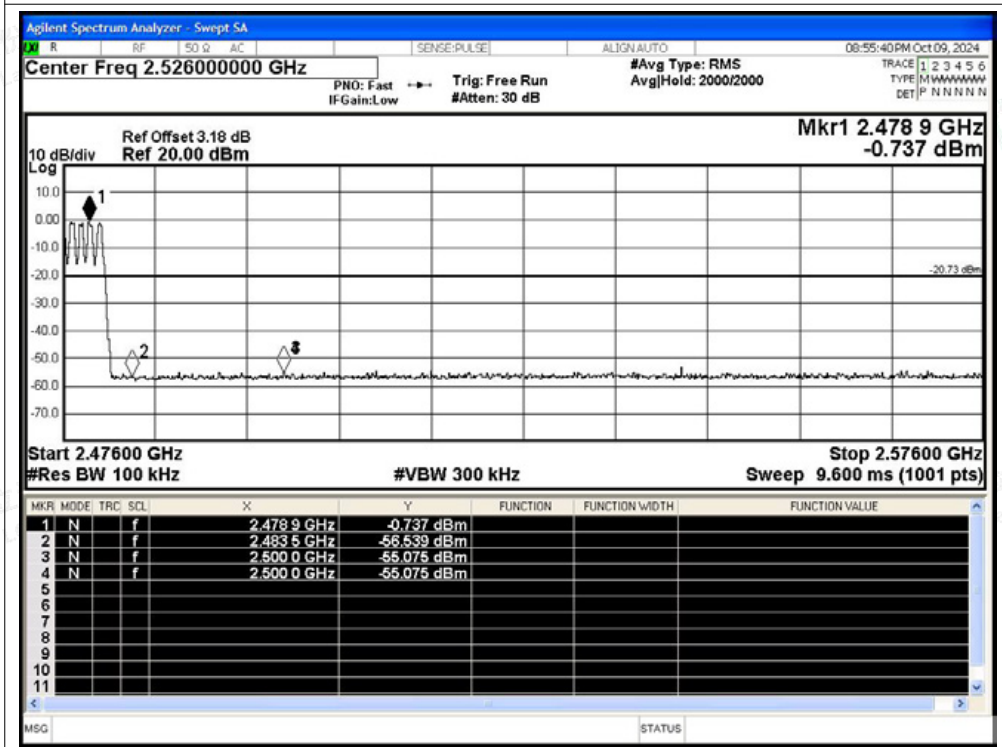




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

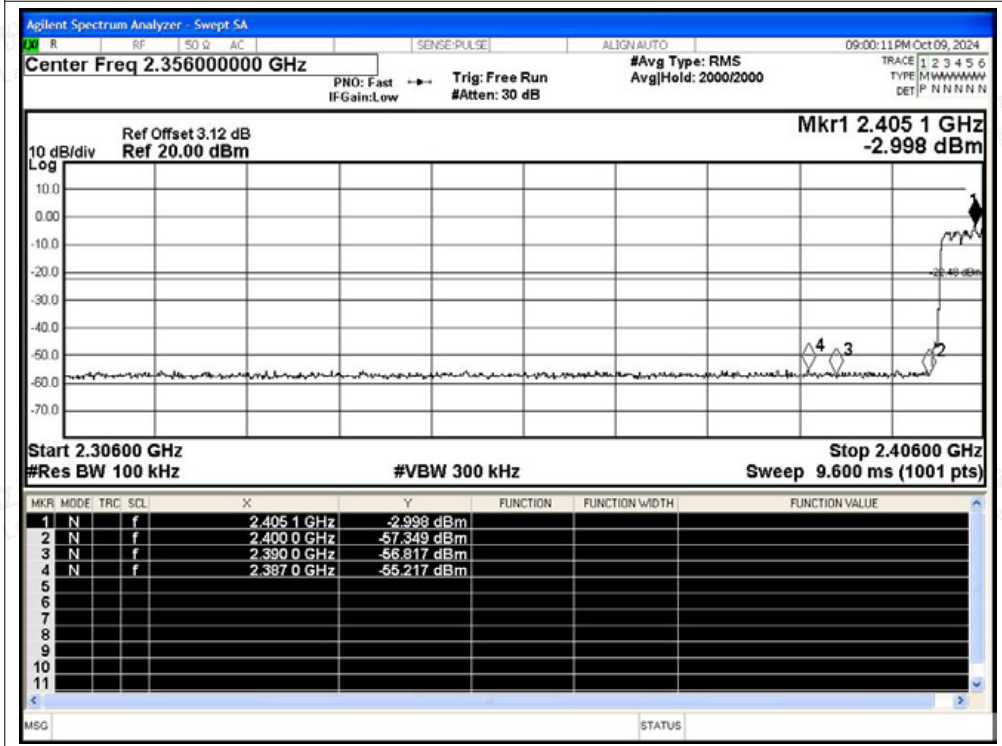




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

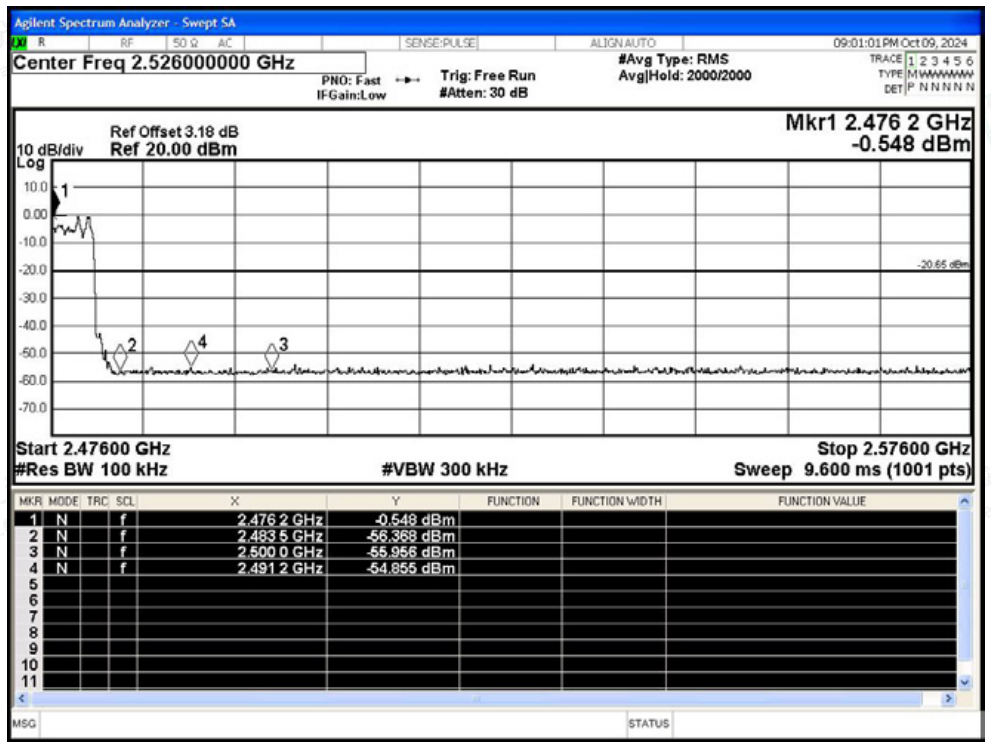




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.22	-20	Pass
NVNT	1-DH5	2441	Ant1	-55	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.7	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.72	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.79	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.47	-20	Pass

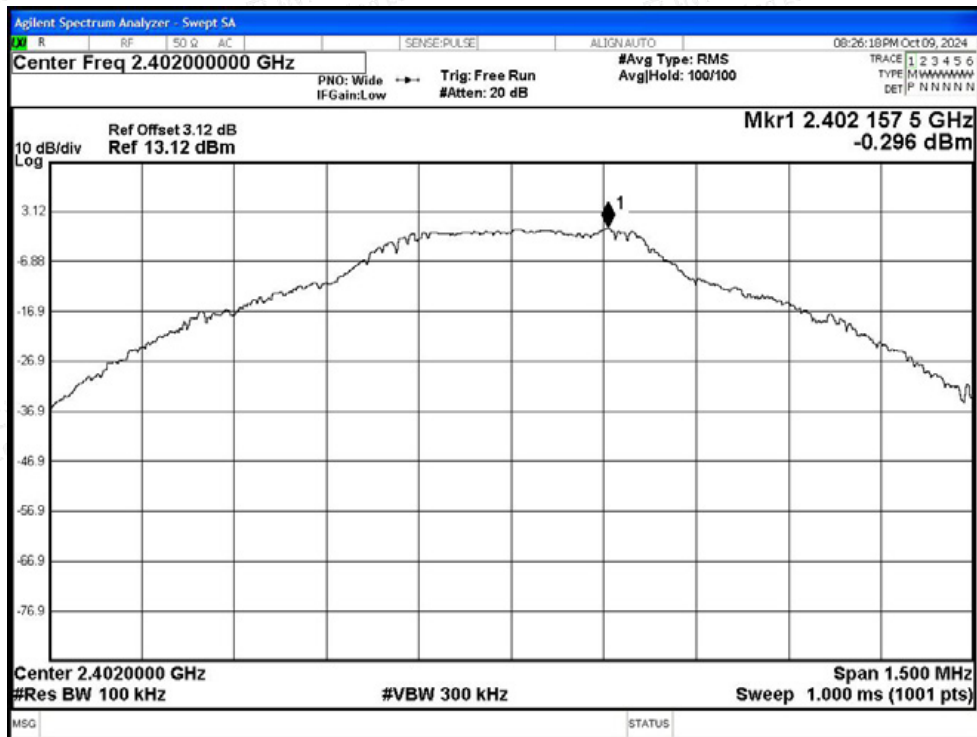


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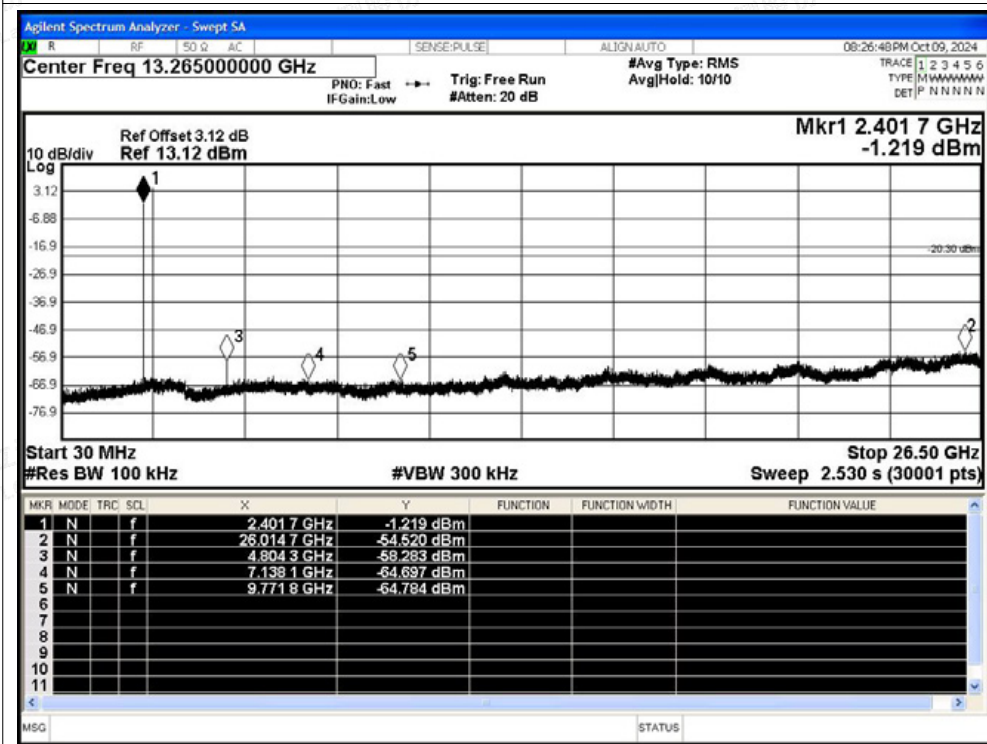


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

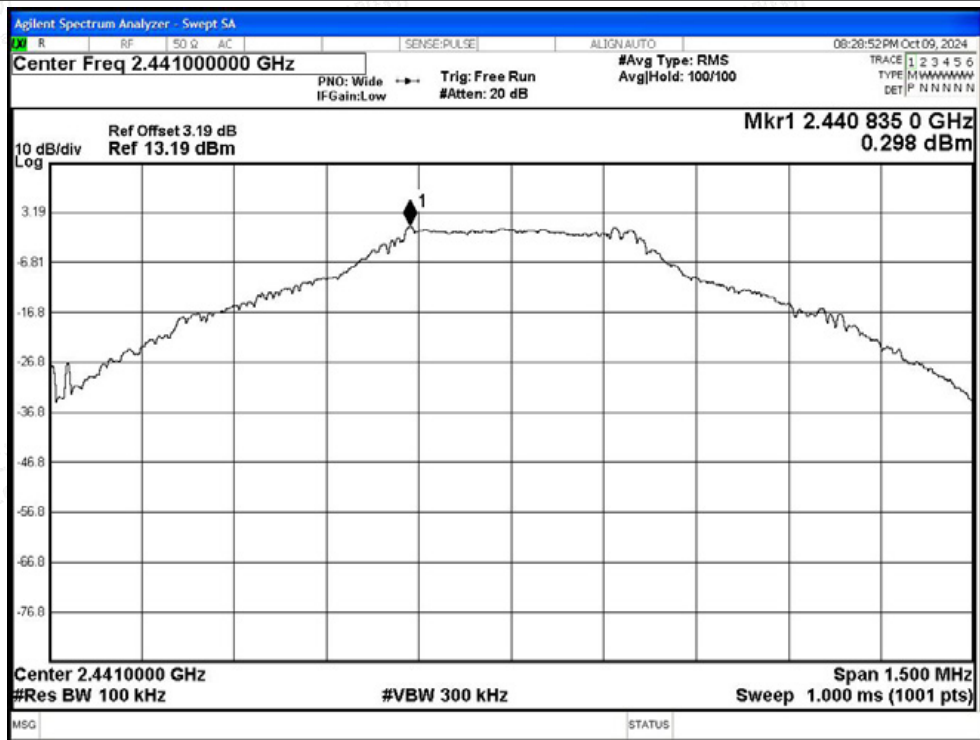


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

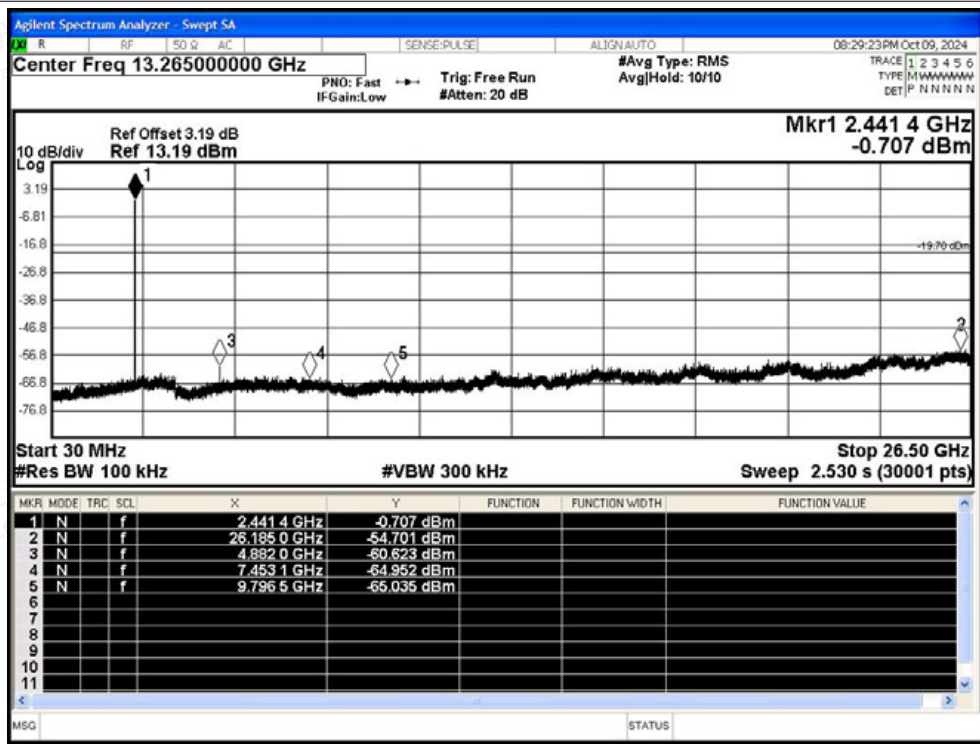




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

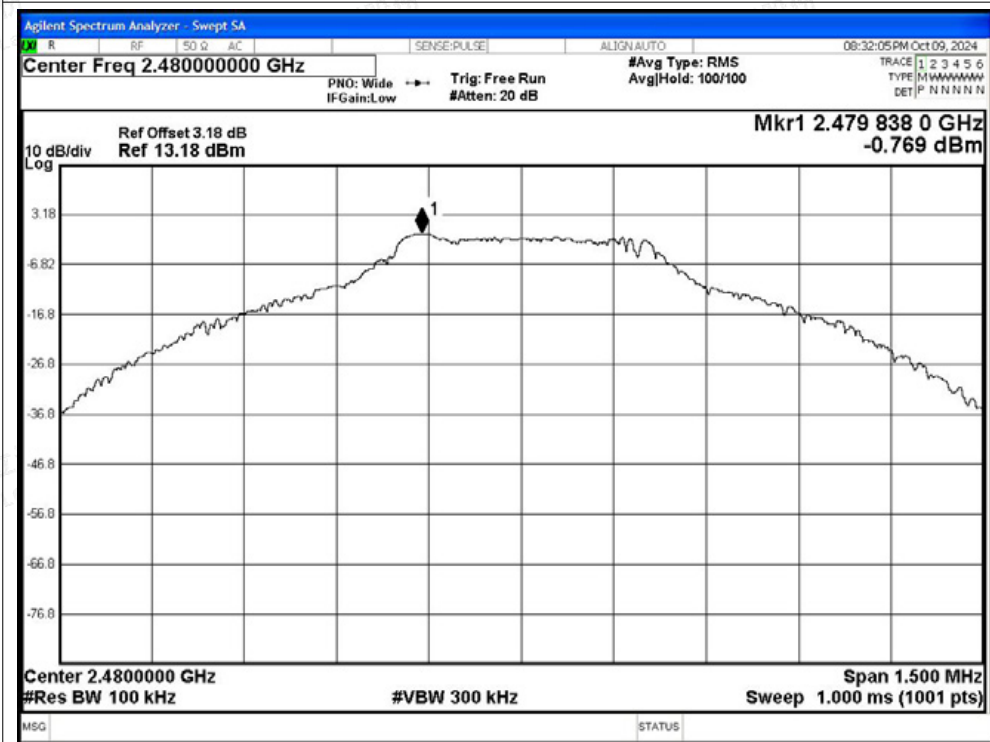


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

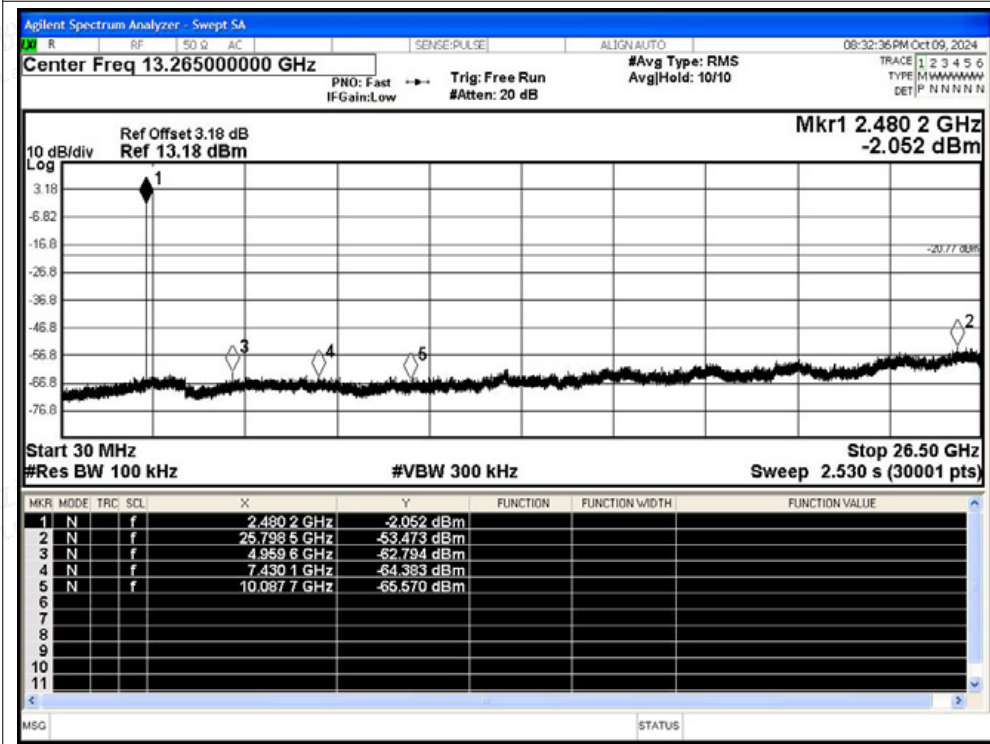




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

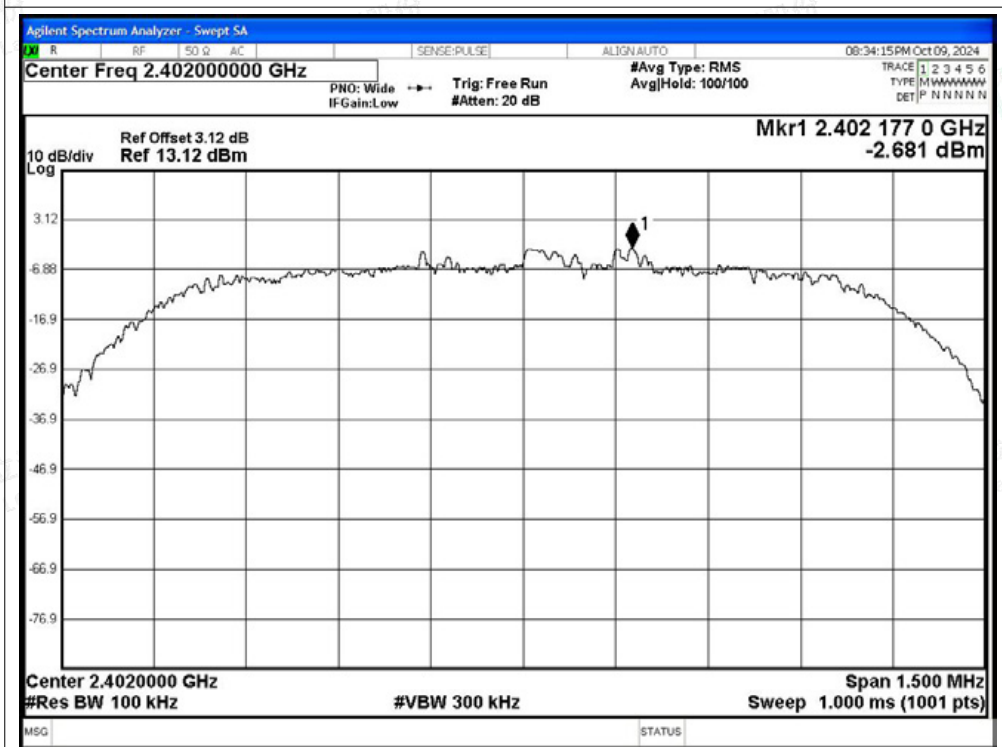


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

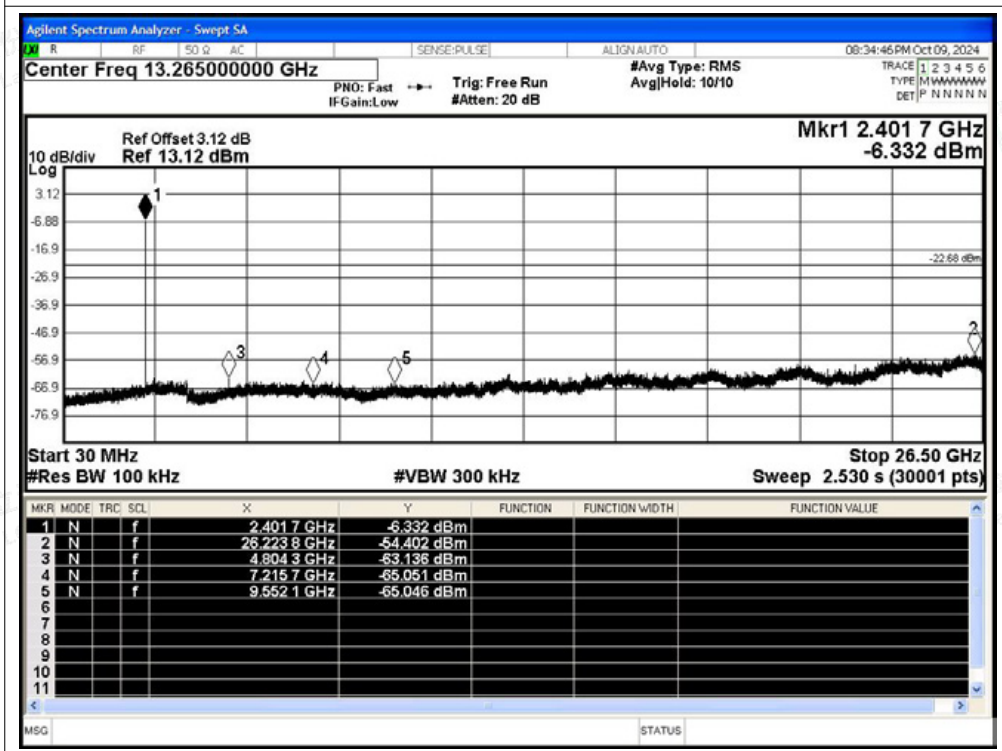




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

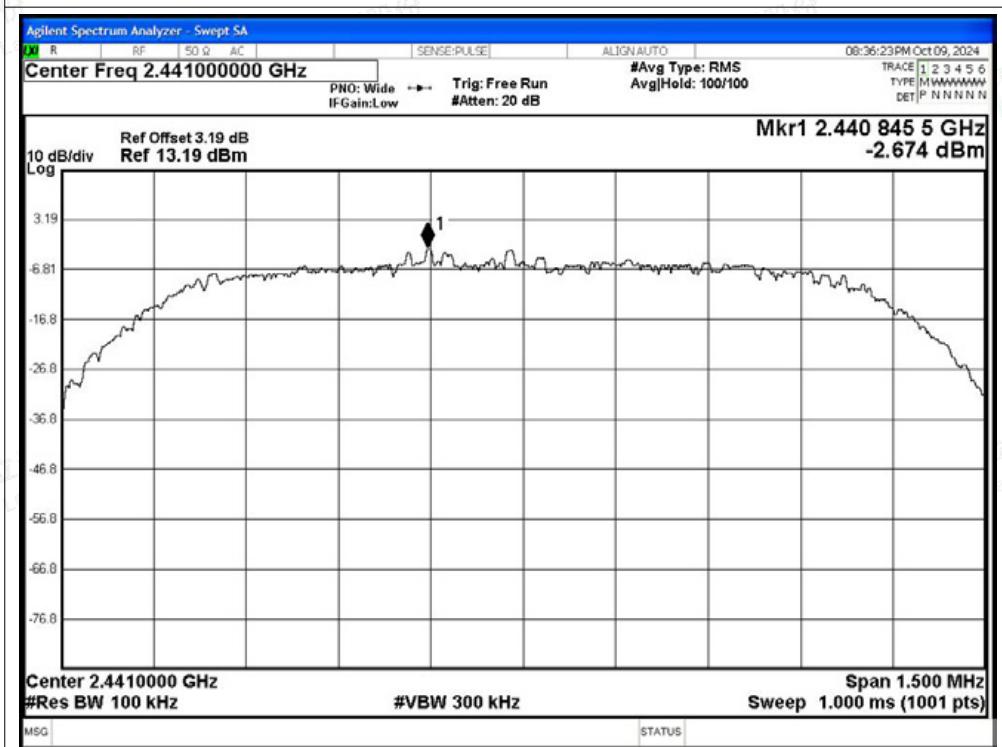


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

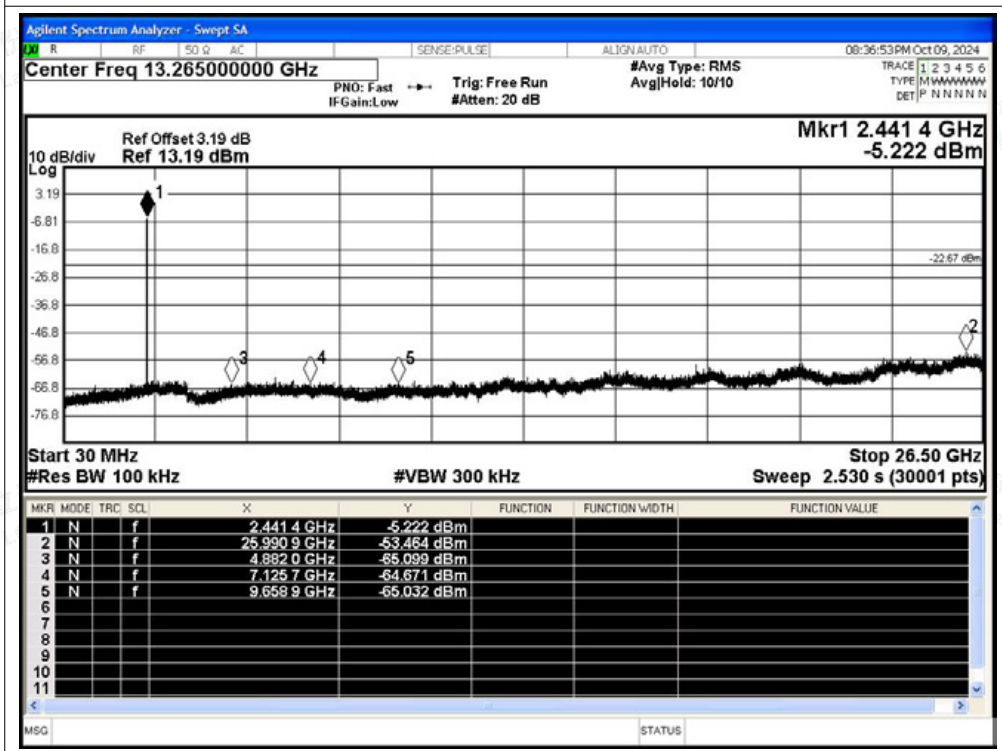




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

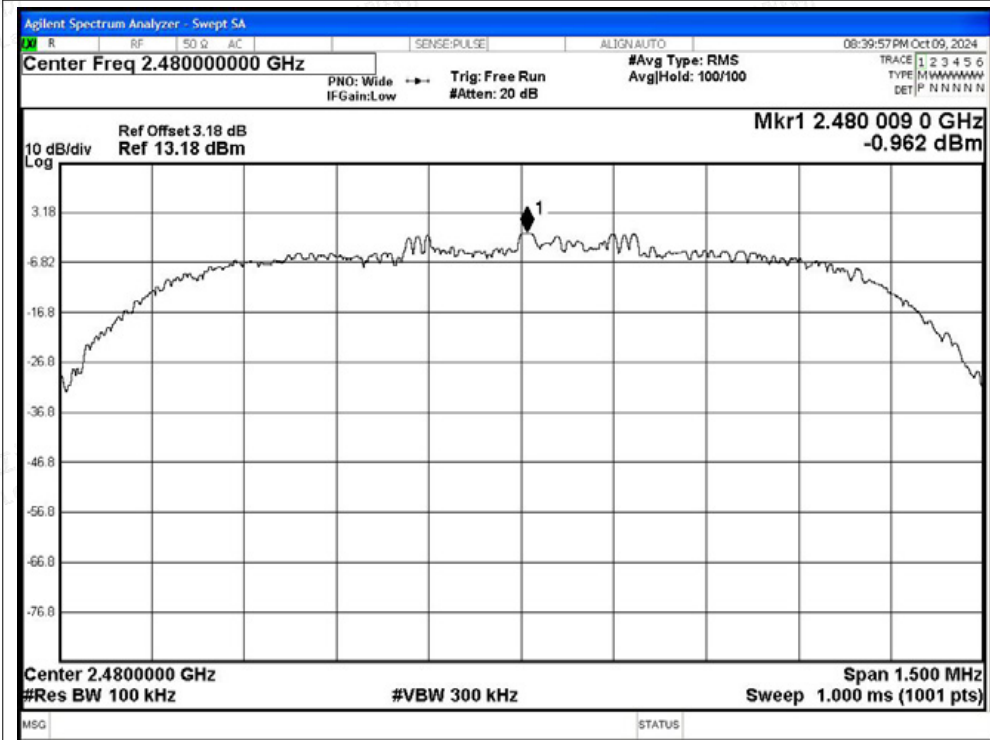


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

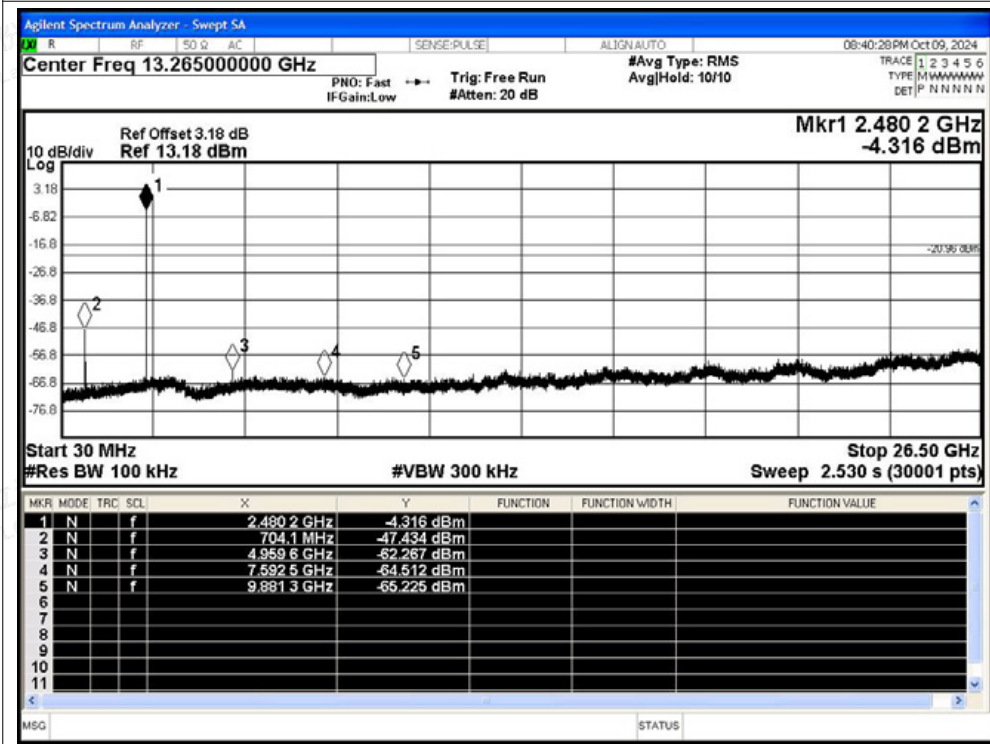




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

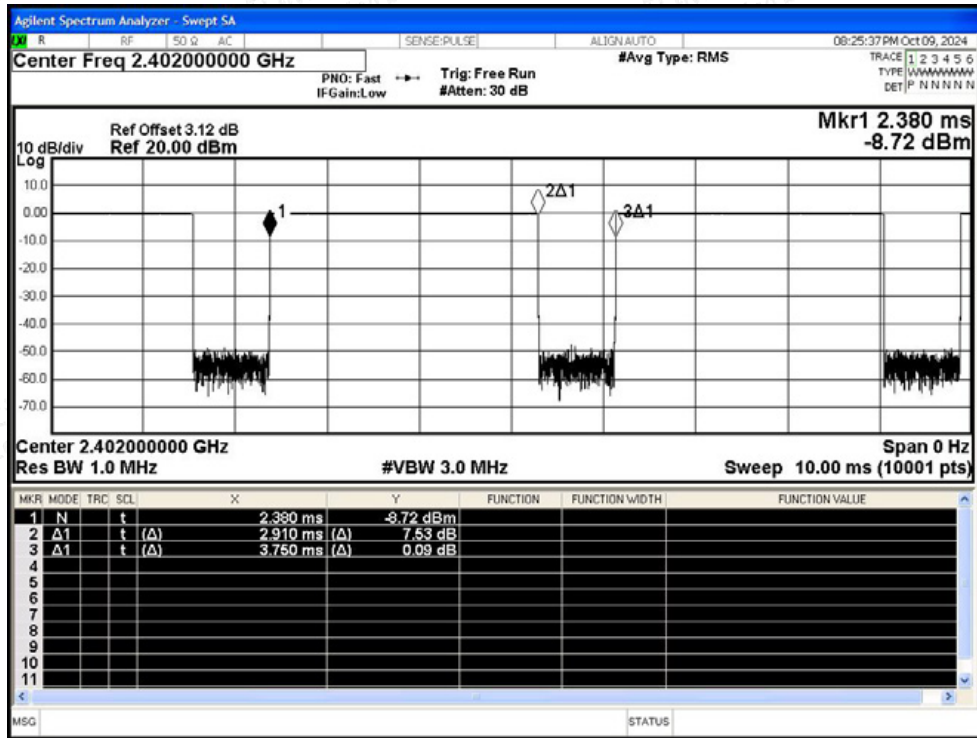


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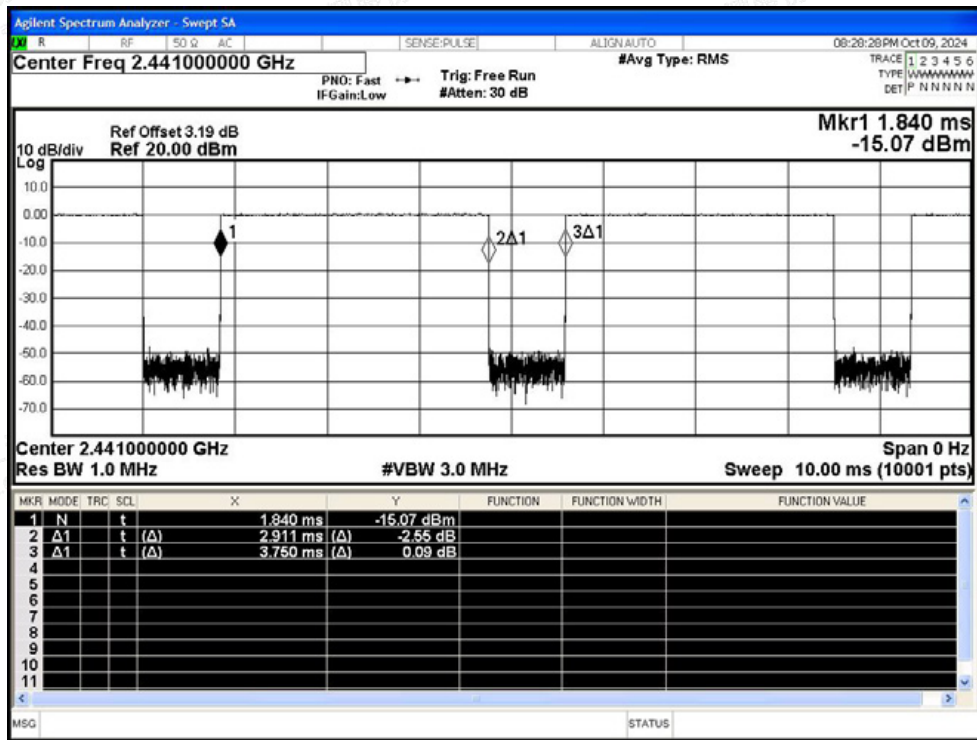


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

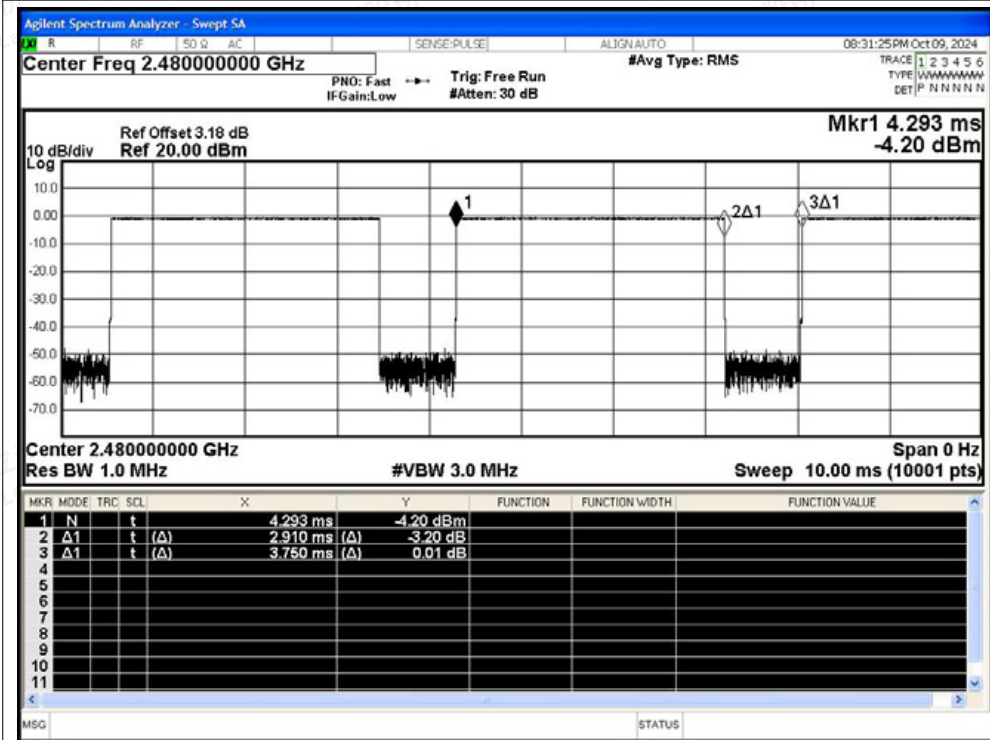


Duty Cycle NVNT 1-DH5 2441MHz Ant1

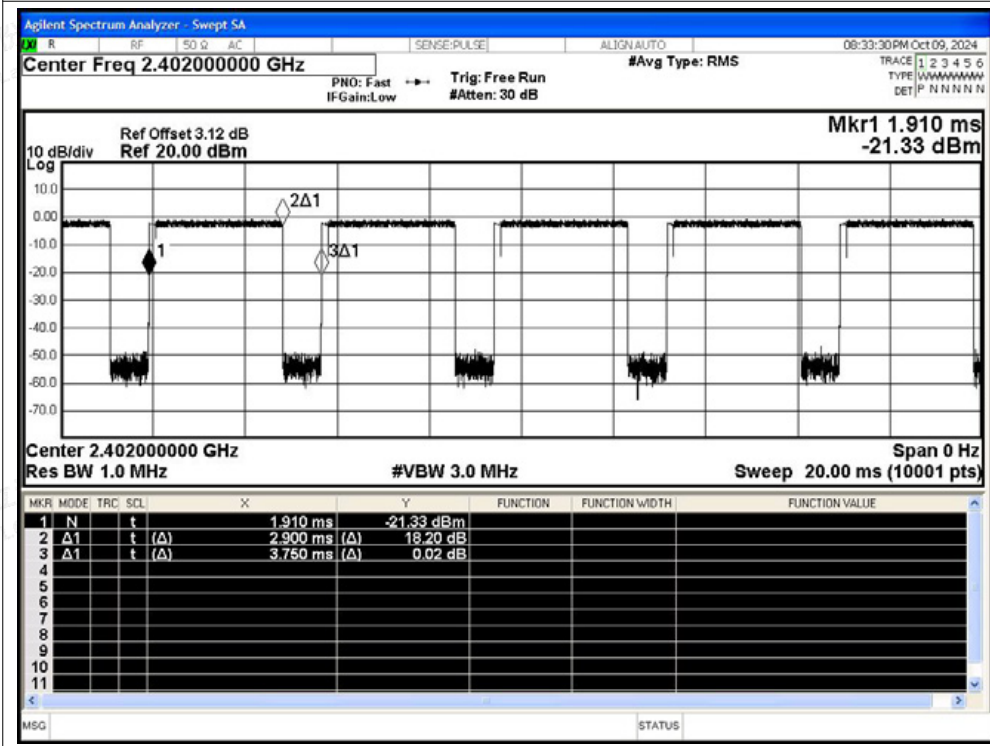




Duty Cycle NVNT 1-DH5 2480MHz Ant1

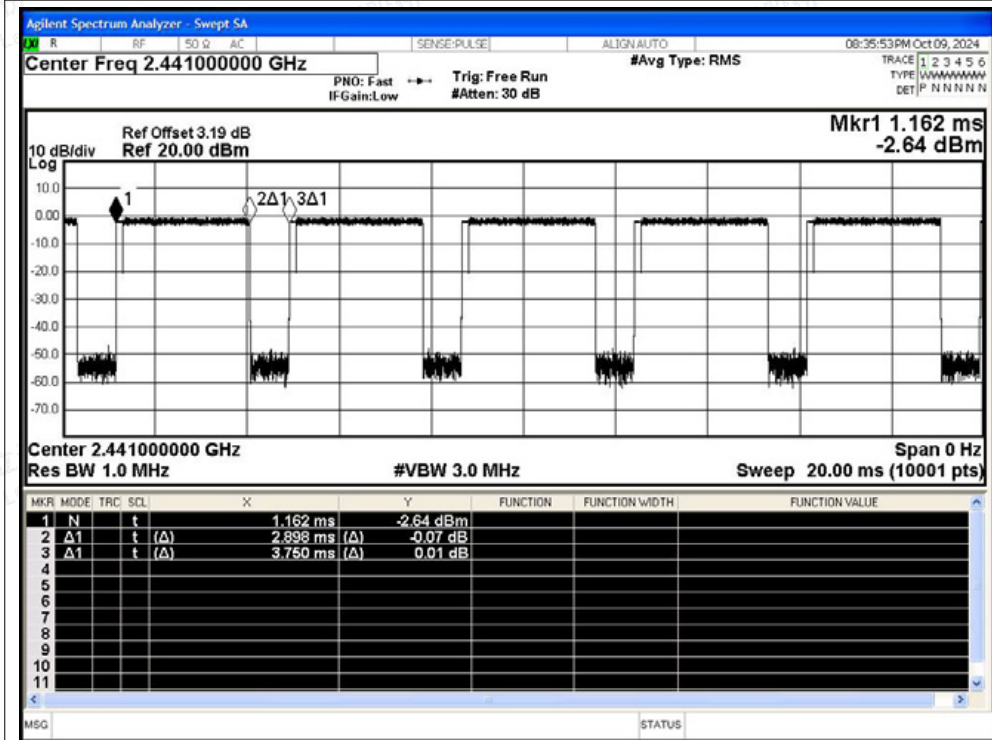


Duty Cycle NVNT 2-DH5 2402MHz Ant1

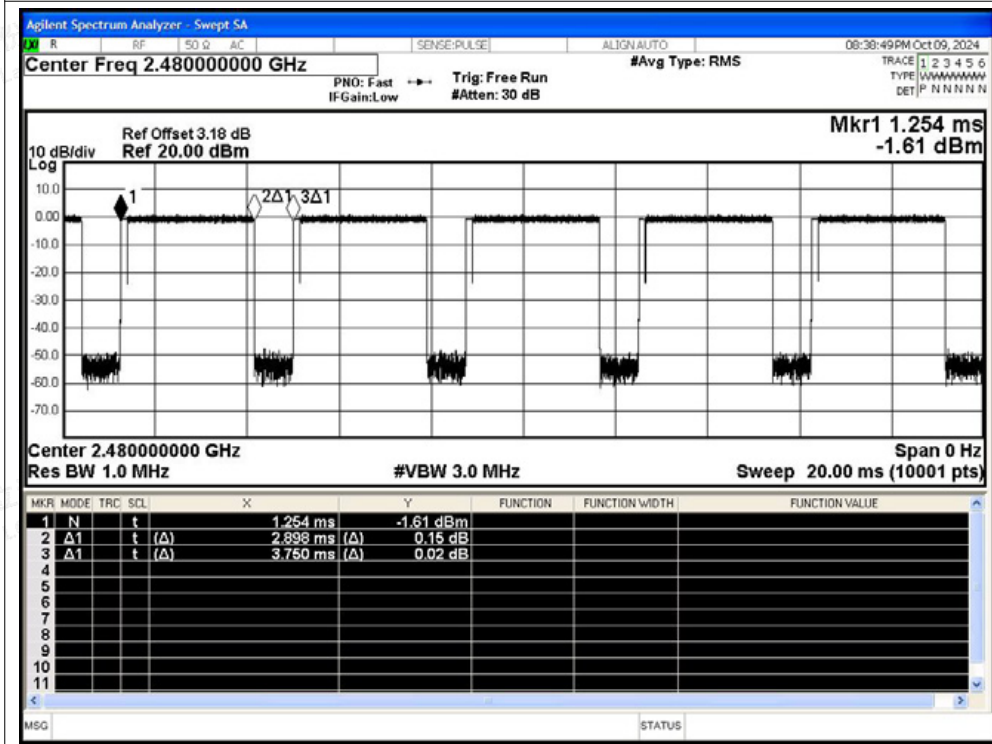




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1





A.9 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	1-DH5	2402	Ant1	No-Hopping	2310	-49.77	2	-	47.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.96	2	1.1	40.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2347.632	-45.96	2	-	51.3	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.208	-56.62	2	1.1	41.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.72	2	-	48.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.11	2	1.1	41.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.57	2	-	47.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.83	2	1.1	40.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.928	-45.98	2	-	51.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.136	-56.16	2	1.1	42.2	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.29	2	-	49.97	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.85	2	1.1	41.51	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.9	2	-	47.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.96	2	1.12	40.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.016	-46.6	2	-	50.66	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2368.176	-56.73	2	1.12	41.65	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.19	2	-	47.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57	2	1.12	41.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.9	2	-	52.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.05	2	1.12	42.33	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-44.9	2	-	52.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-56.05	2	1.12	42.33	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-47.9	2	-	49.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.2	2	1.12	41.18	Average	54	Pass

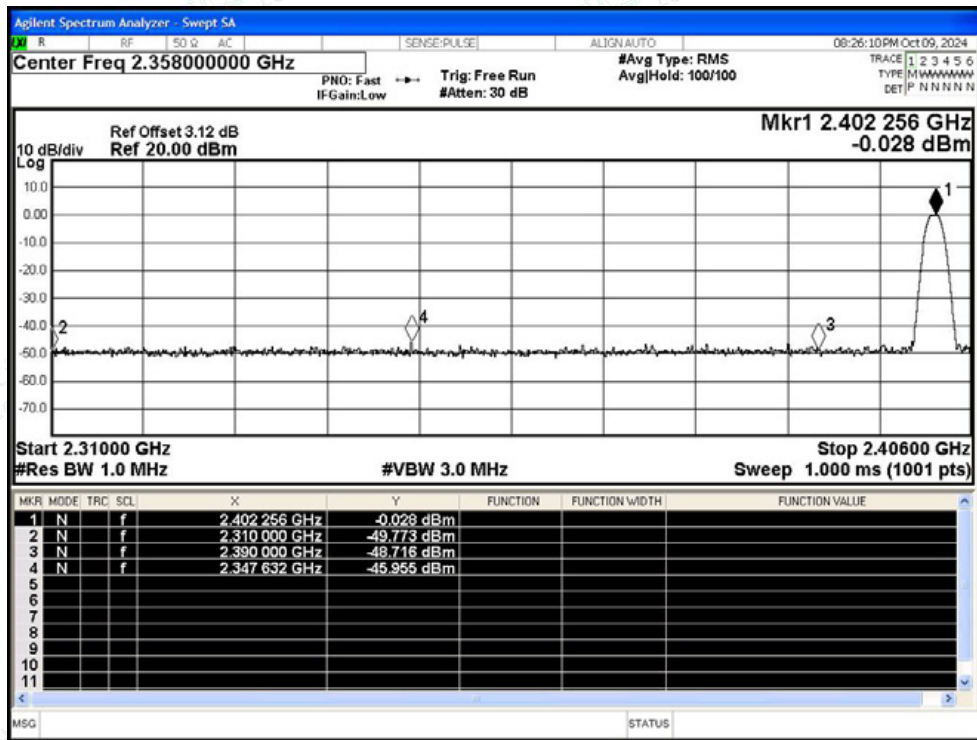


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 Scan code to check authenticity

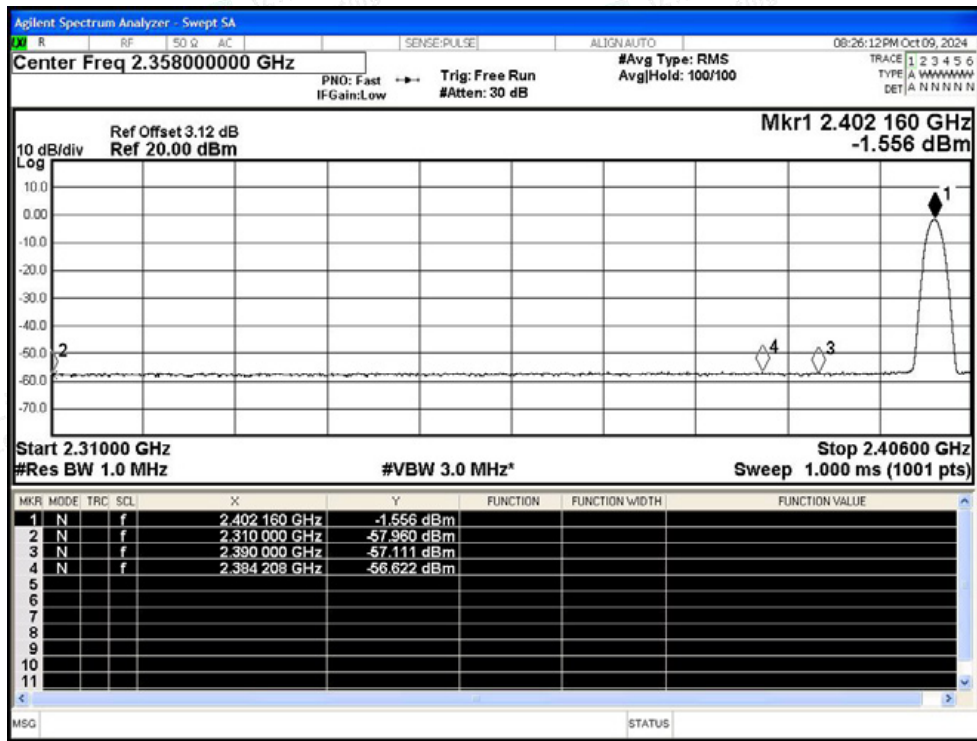


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

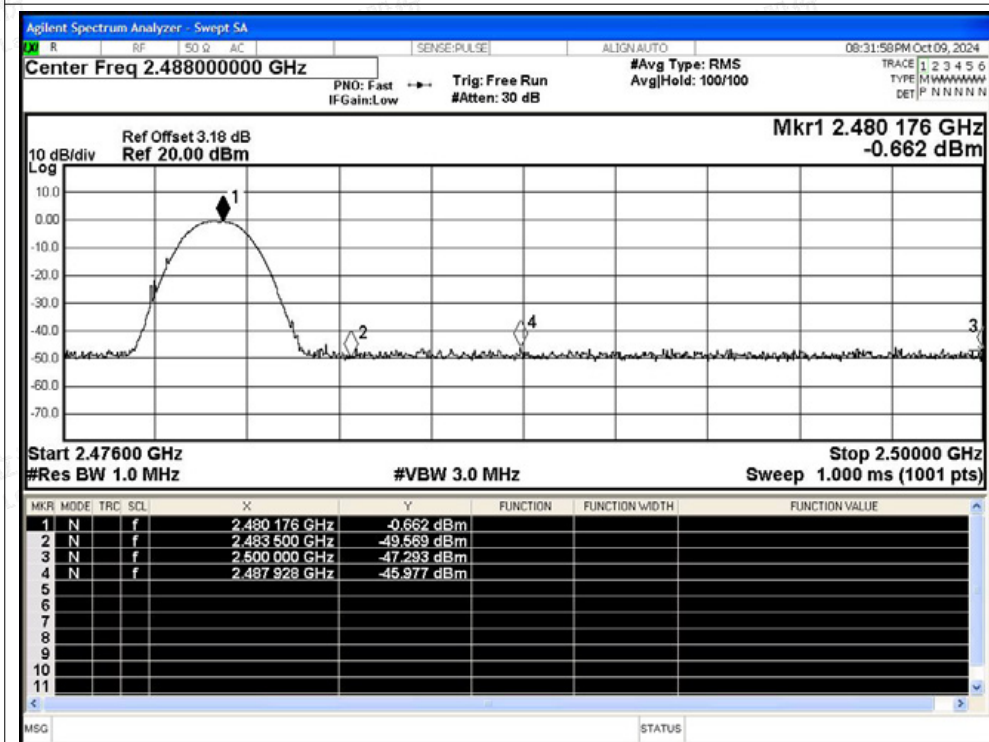


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

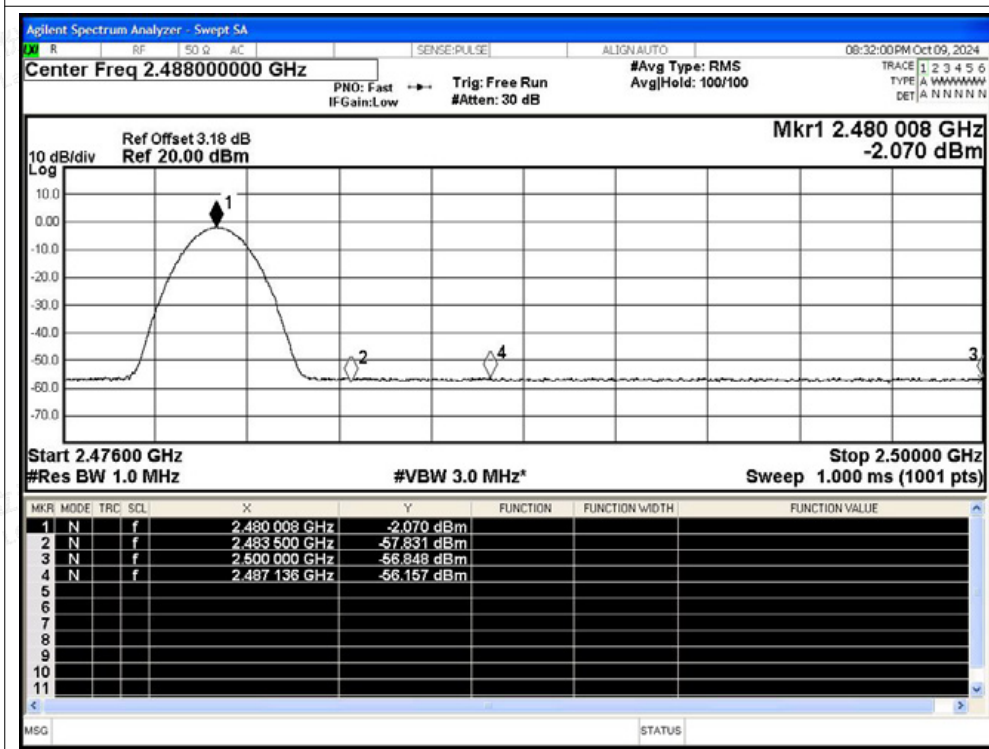




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

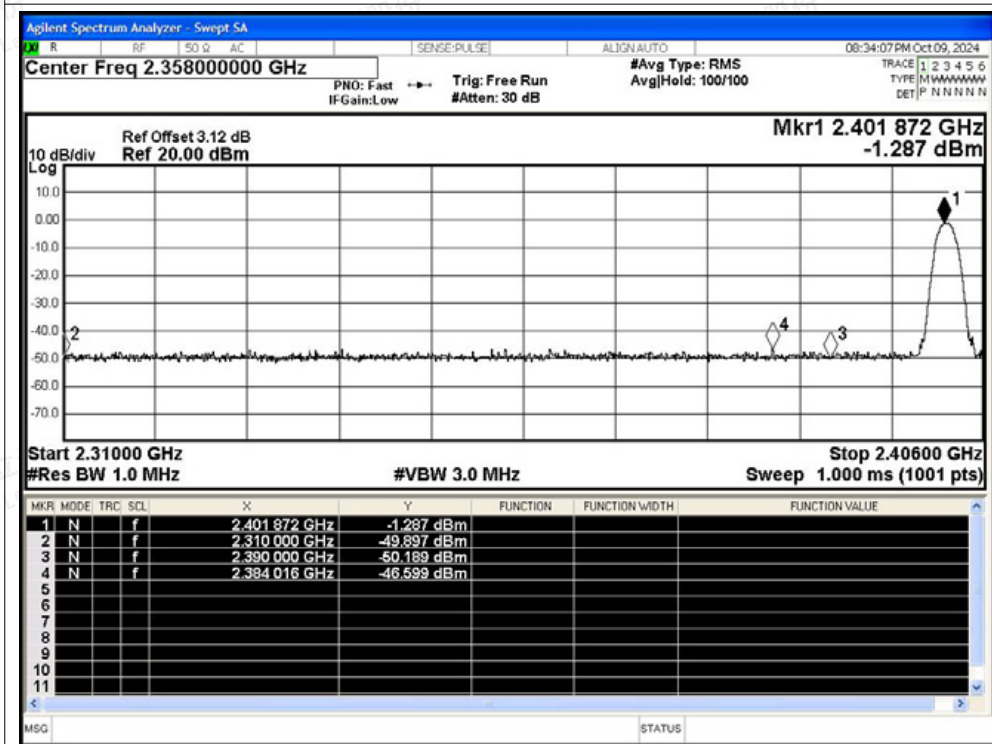


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

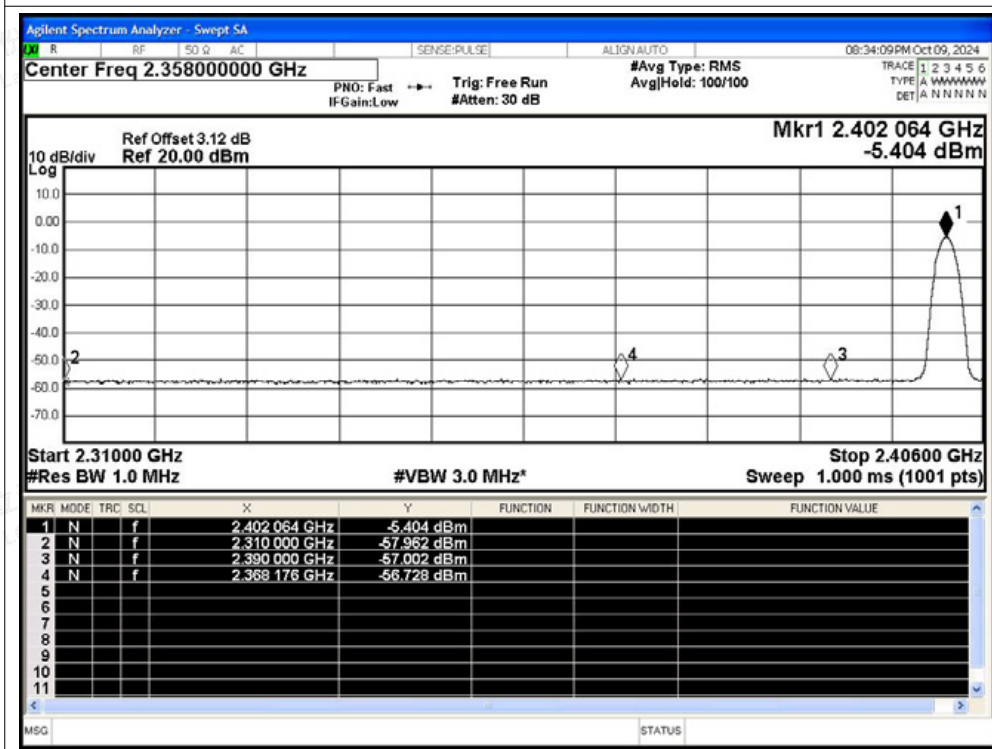




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

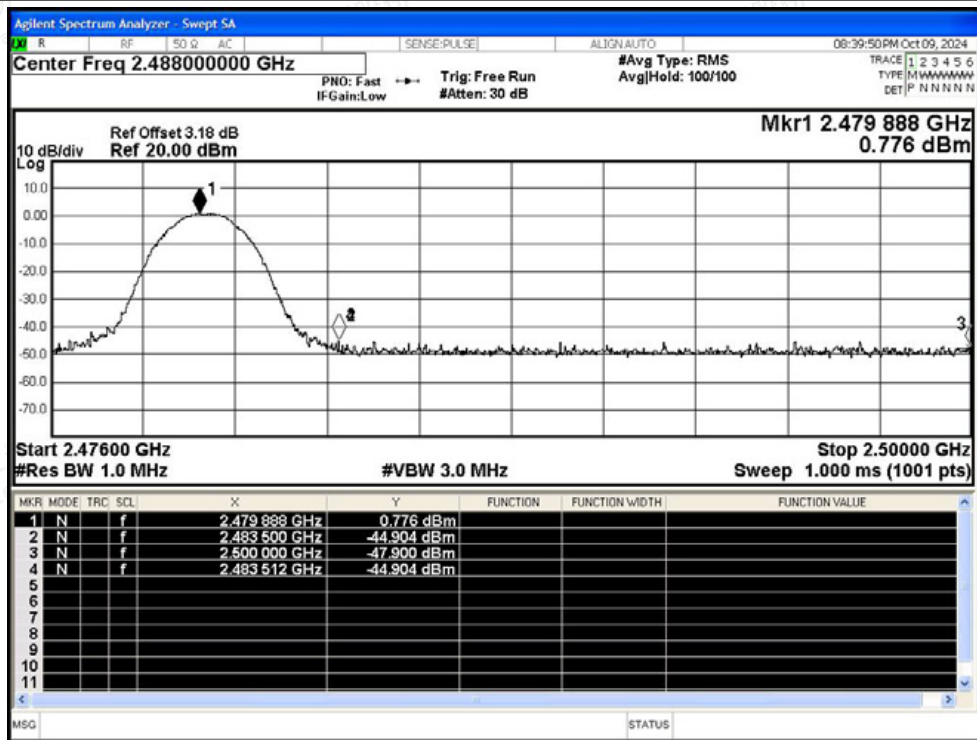


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

