



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Watch

Test Model: W03

Environmental Conditions

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



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.318	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.29	N/A	Pass

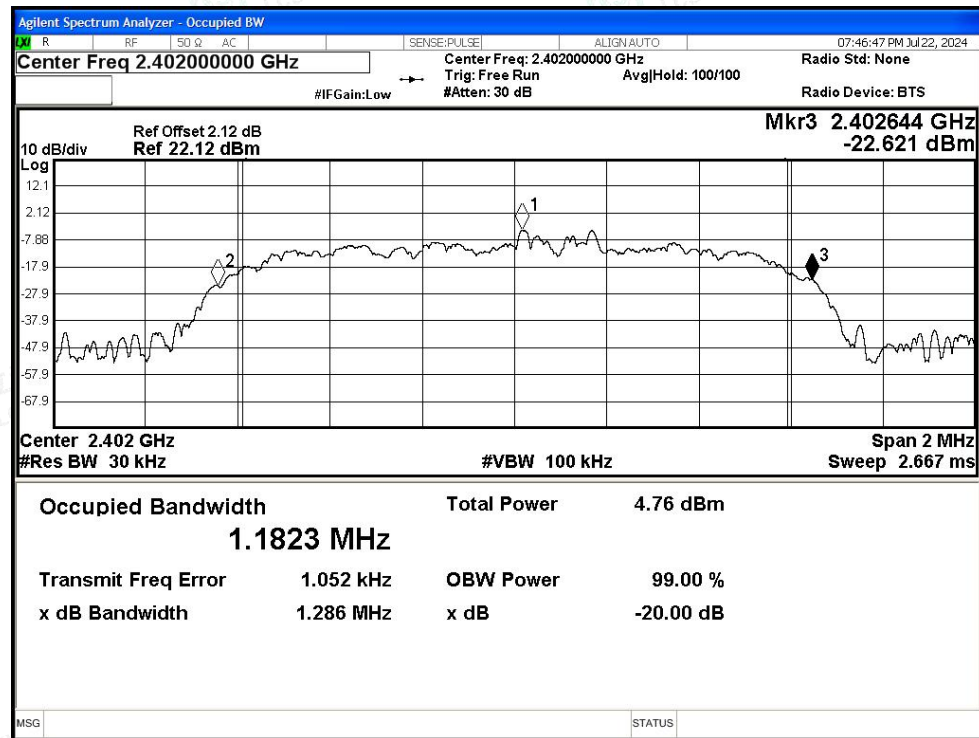


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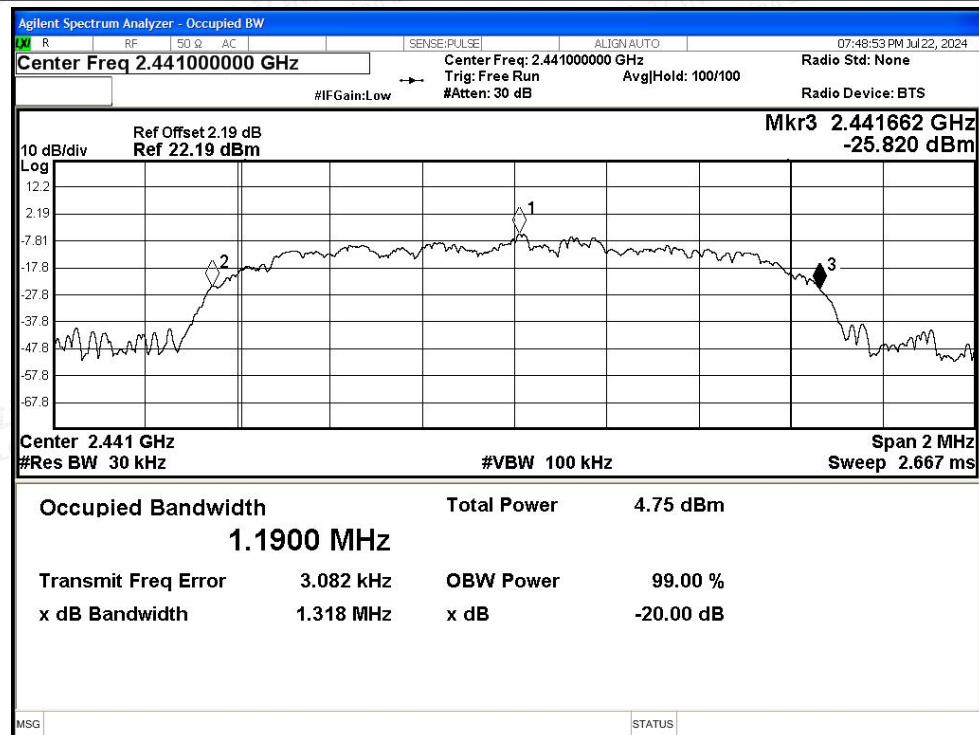


Test Graphs

-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

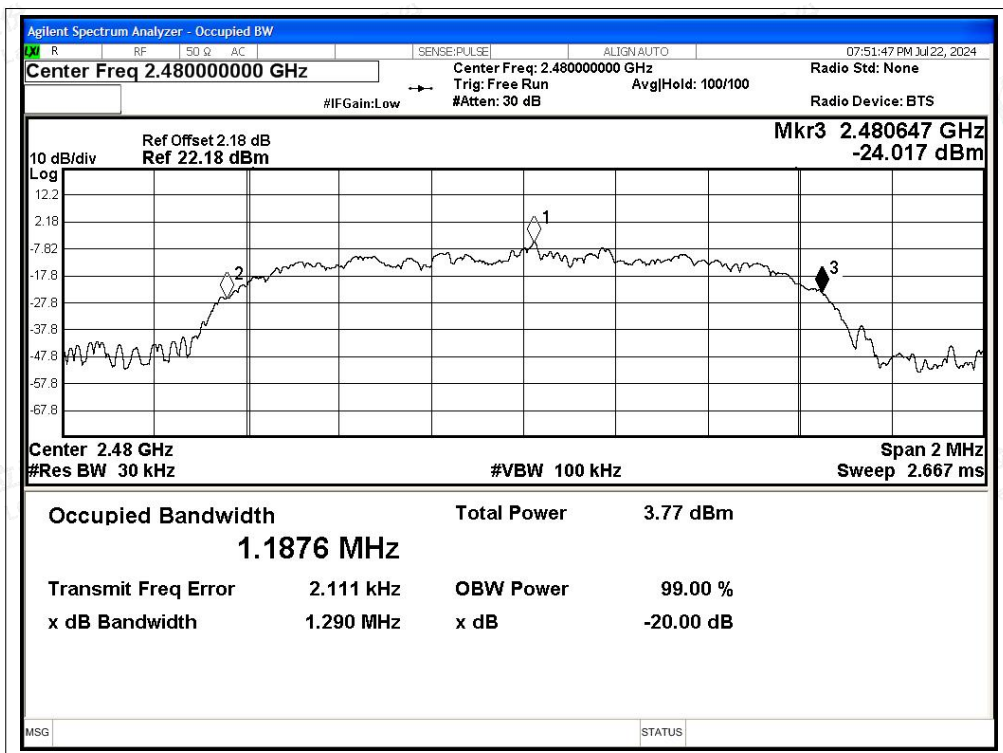


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2-DH5	2402	Ant1	0.18	21	Pass
NVNT	2-DH5	2441	Ant1	0.5	21	Pass
NVNT	2-DH5	2480	Ant1	-0.38	21	Pass

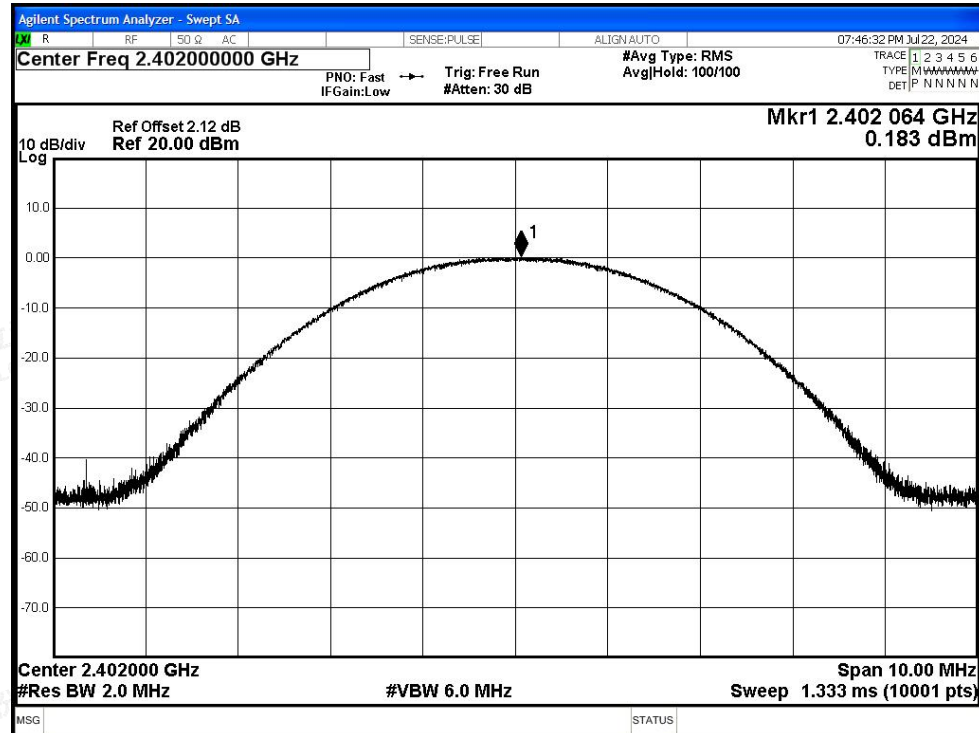


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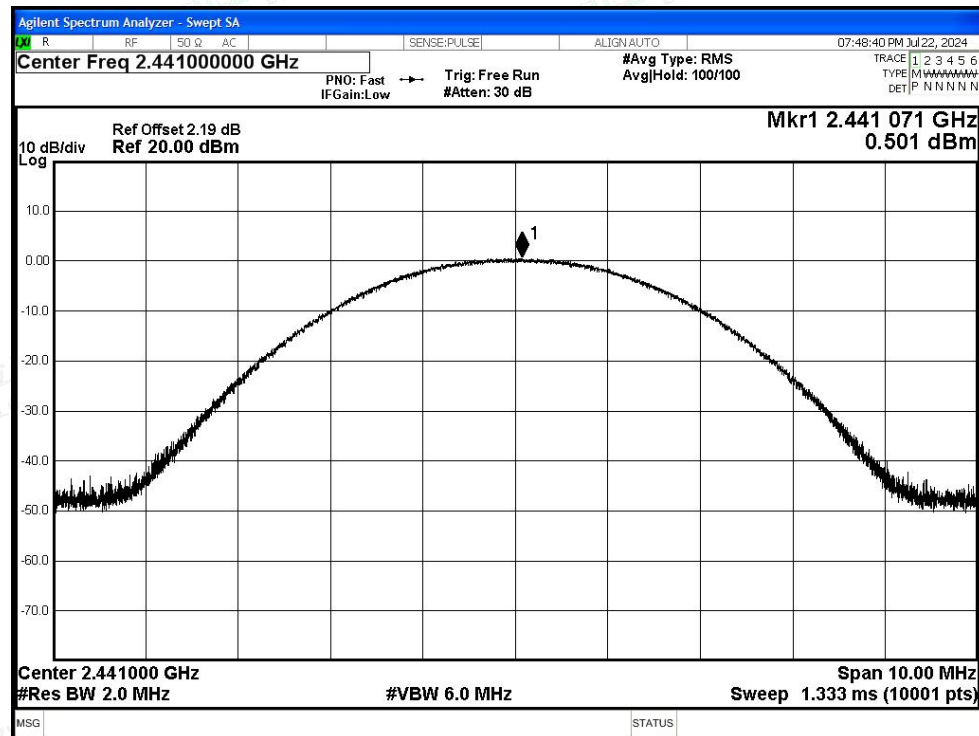


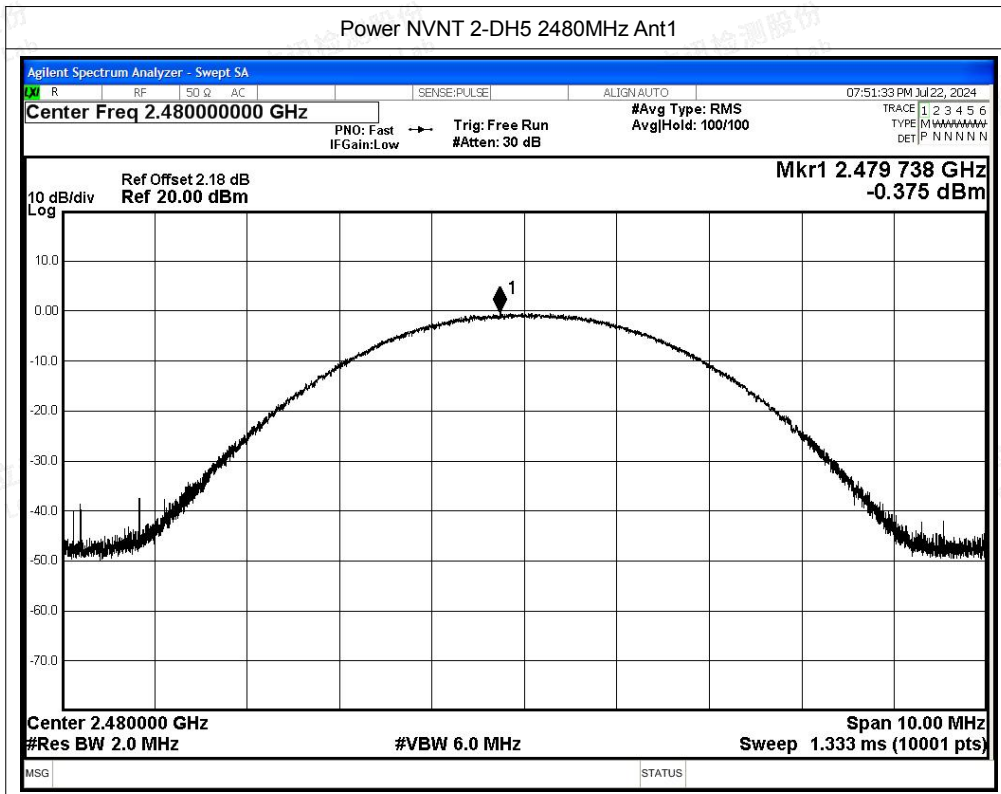
Test Graphs

Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1





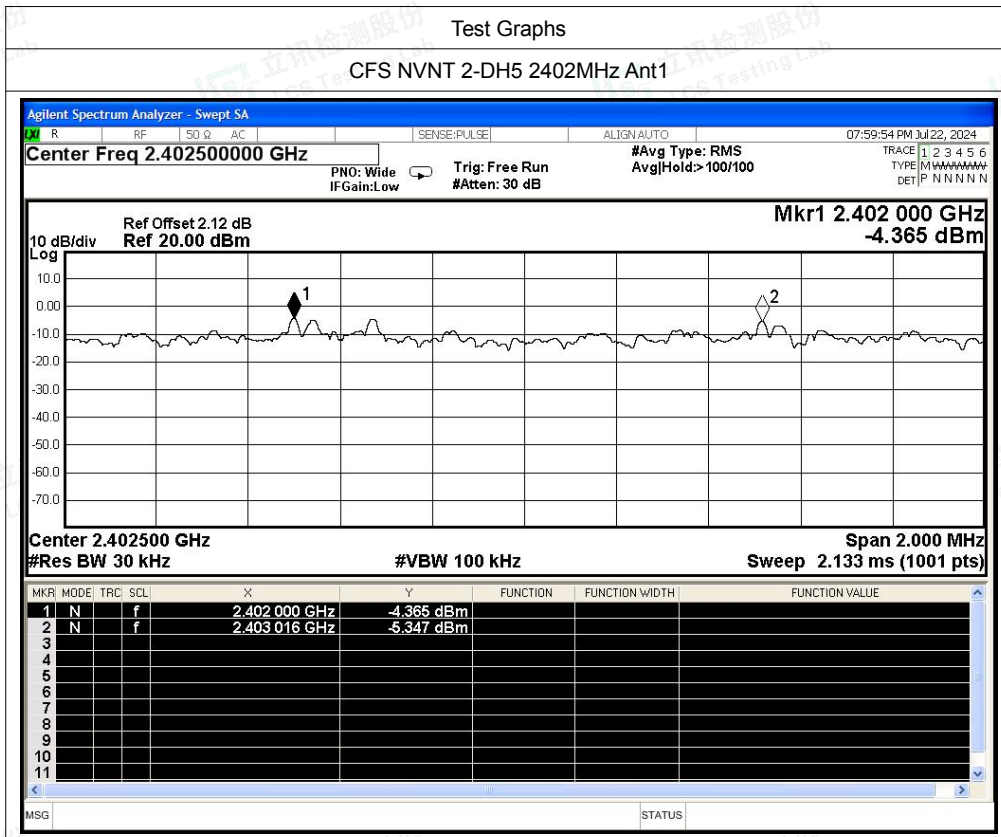


A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2-DH5	Ant1	2402	2403.016	1.016	0.879	Pass



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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	2-DH5	2402	Ant1	2.899	301.496	104	31600	400	Pass

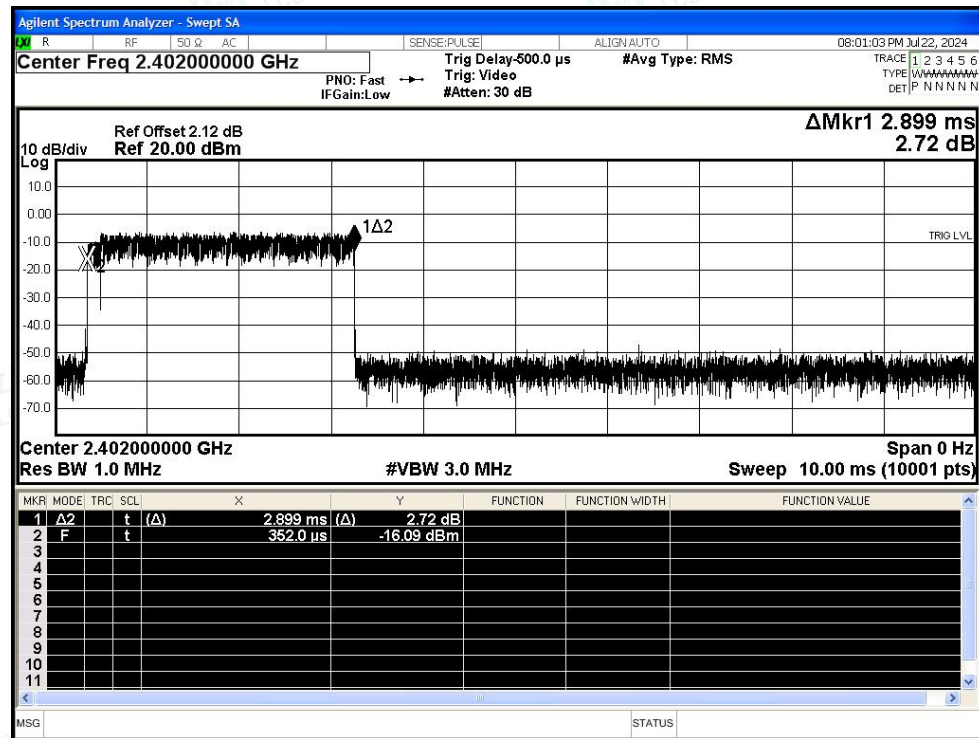


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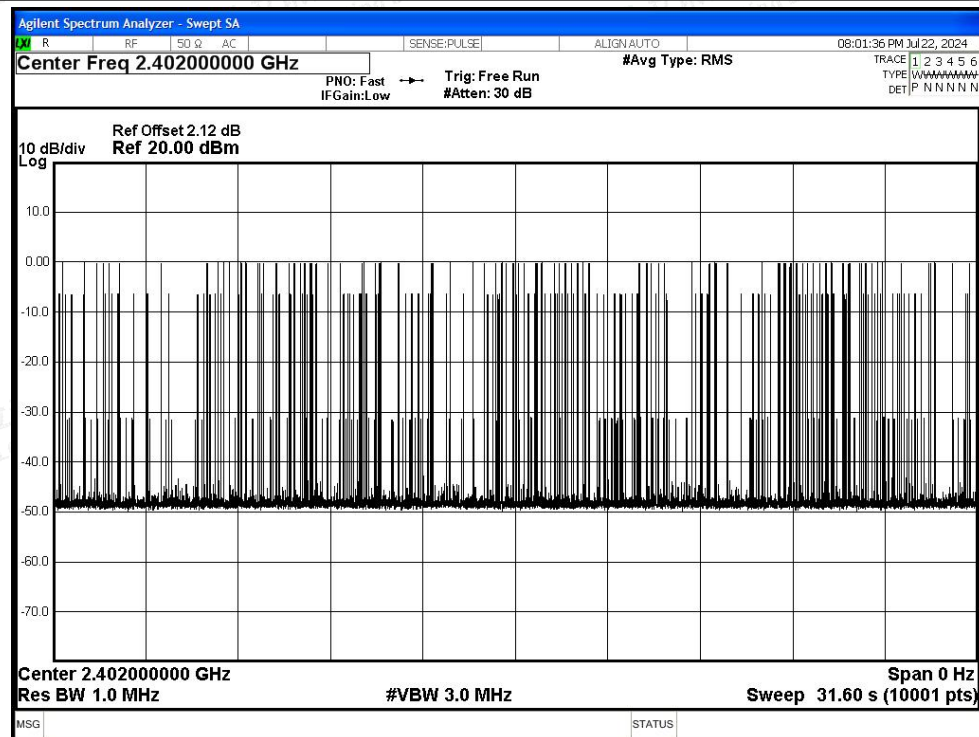


Test Graphs

Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

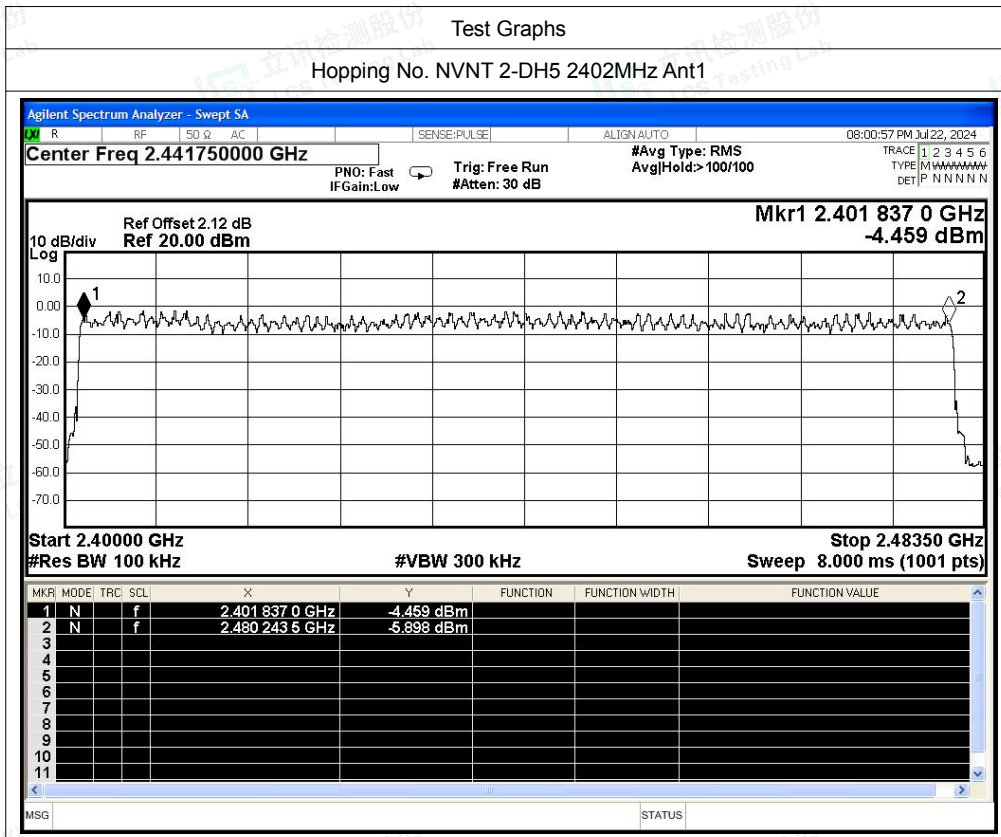




A.5 Number of Hopping Channel

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





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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.12	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.68	-20	Pass

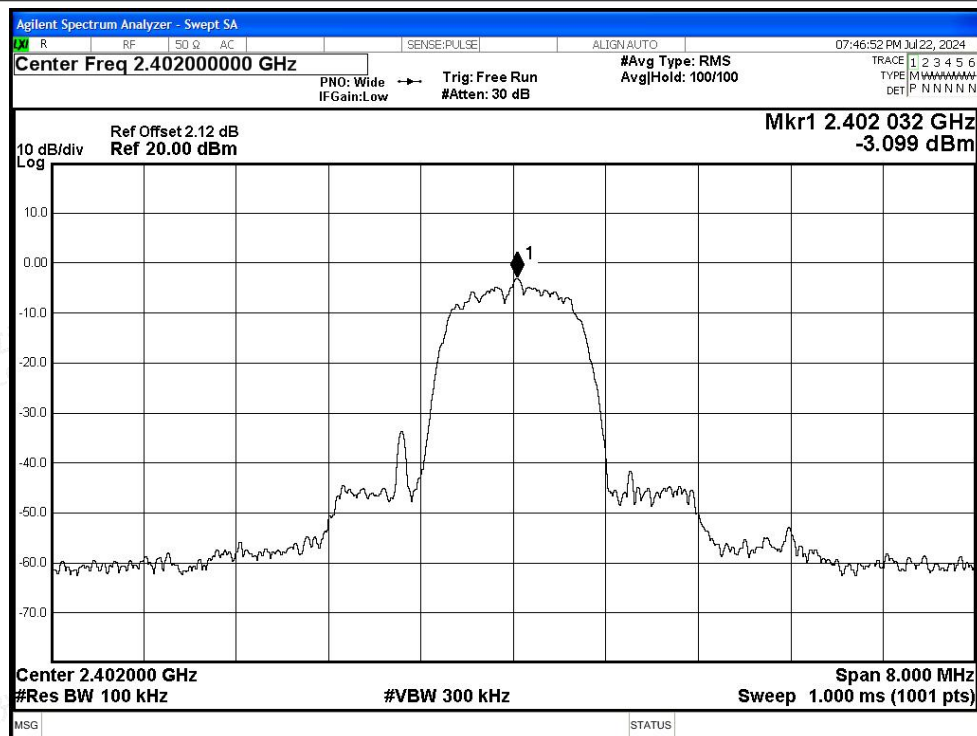


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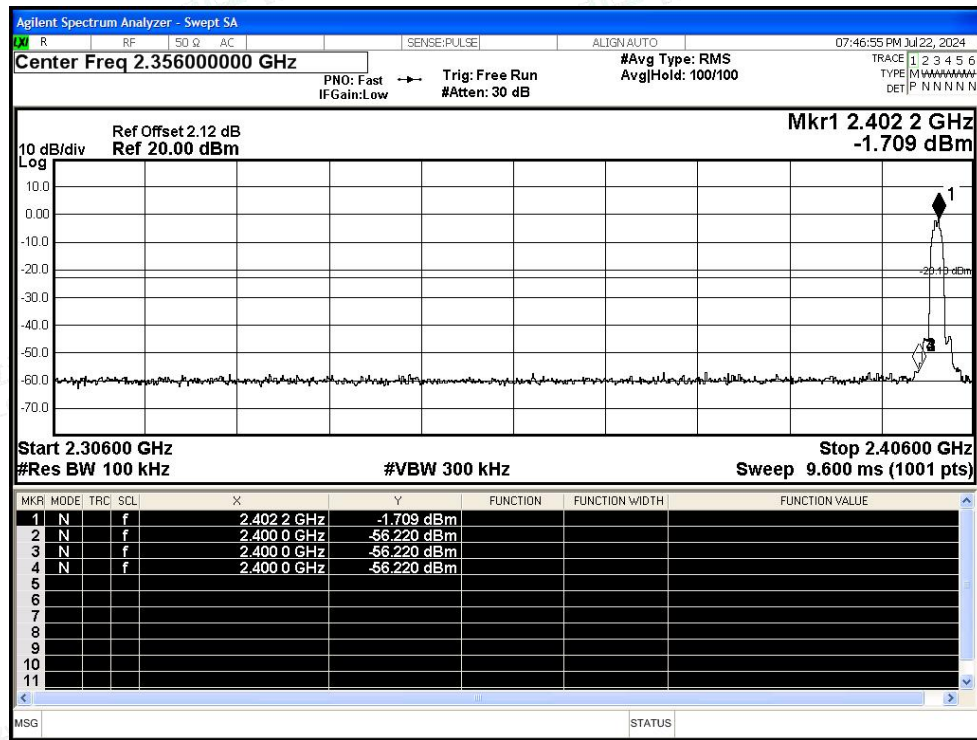


Test Graphs

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

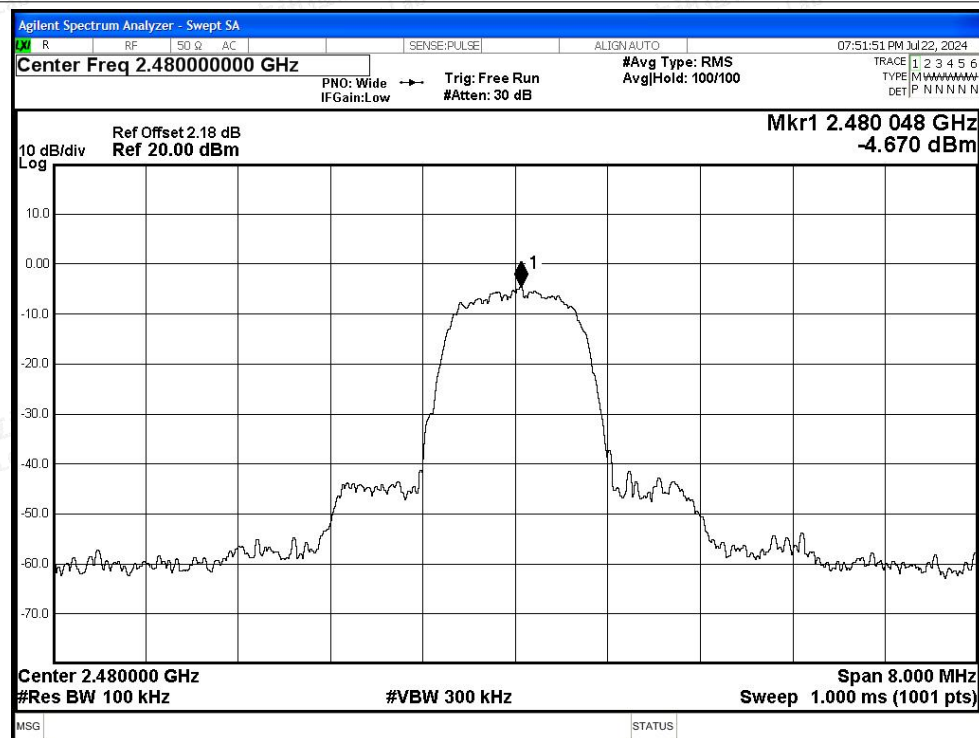


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

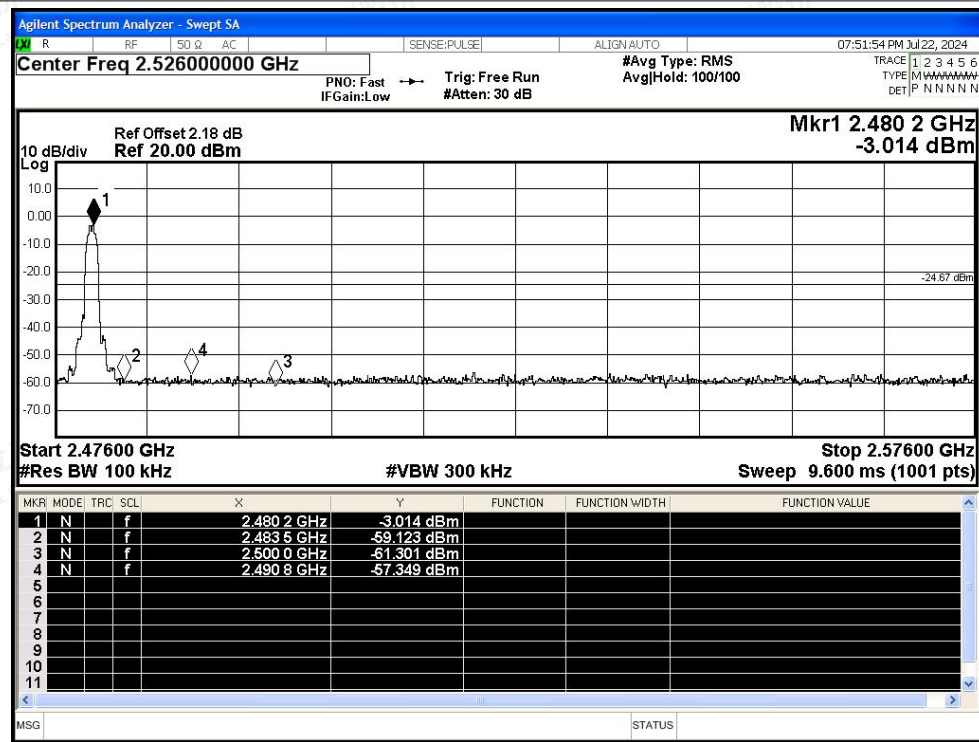




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

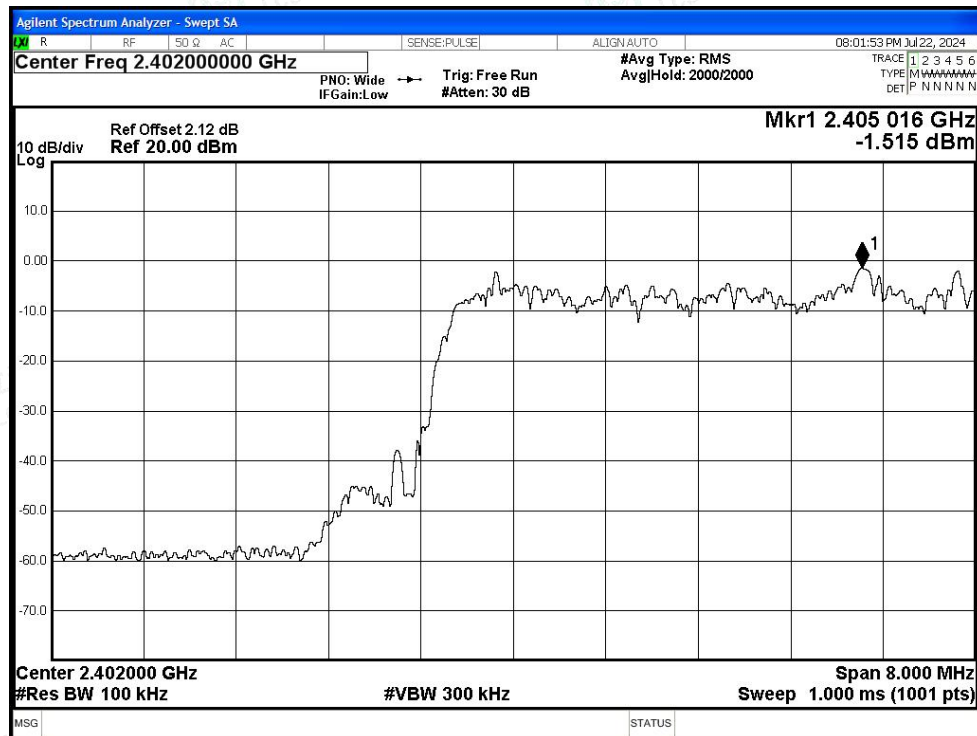
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	Hopping	-54.42	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.37	-20	Pass



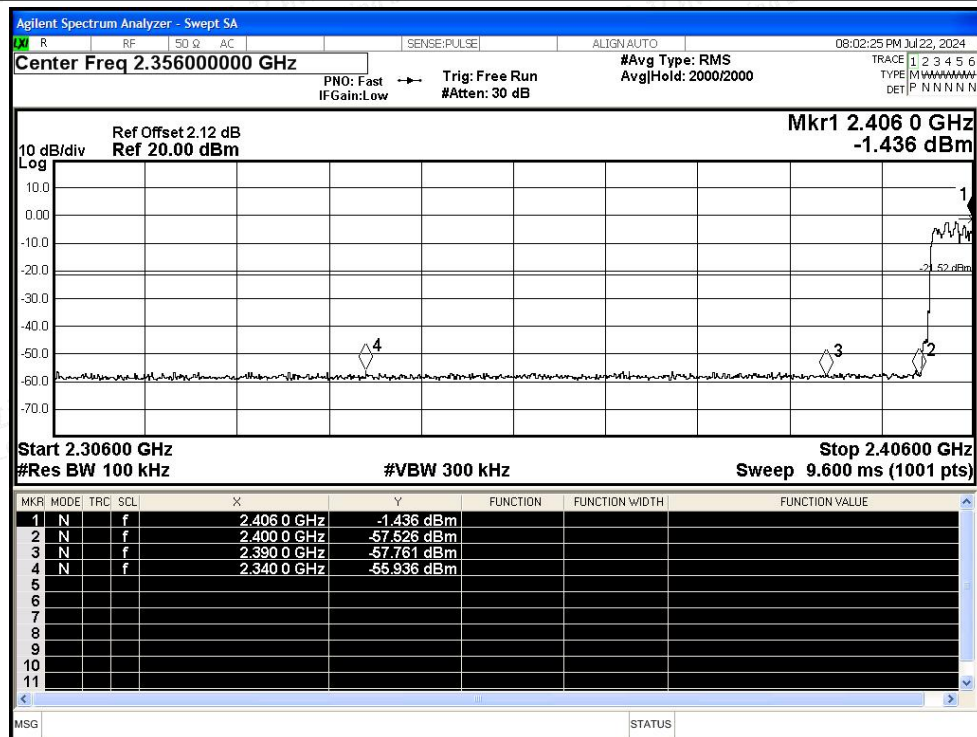


Test Graphs

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

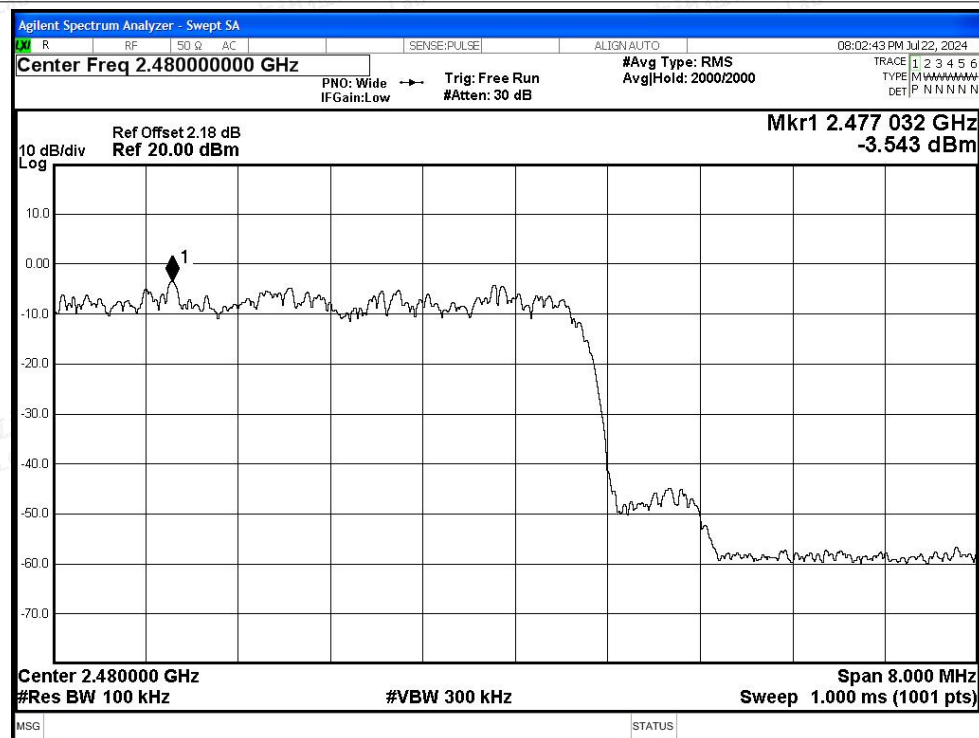


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

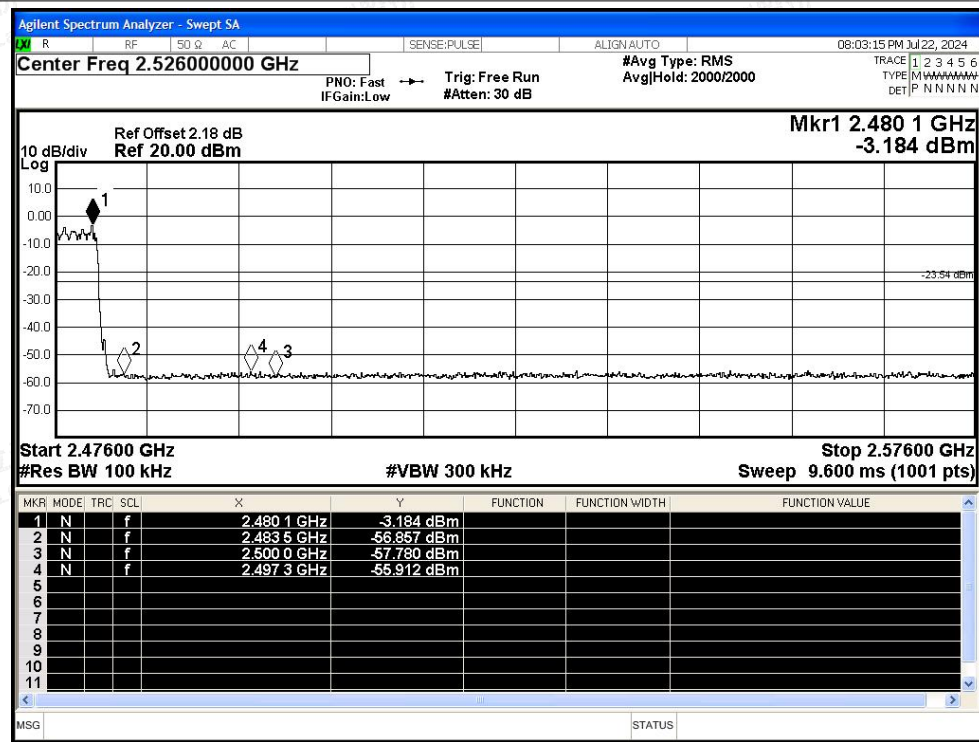




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	2-DH5	2402	Ant1	-53.17	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.97	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.93	-20	Pass

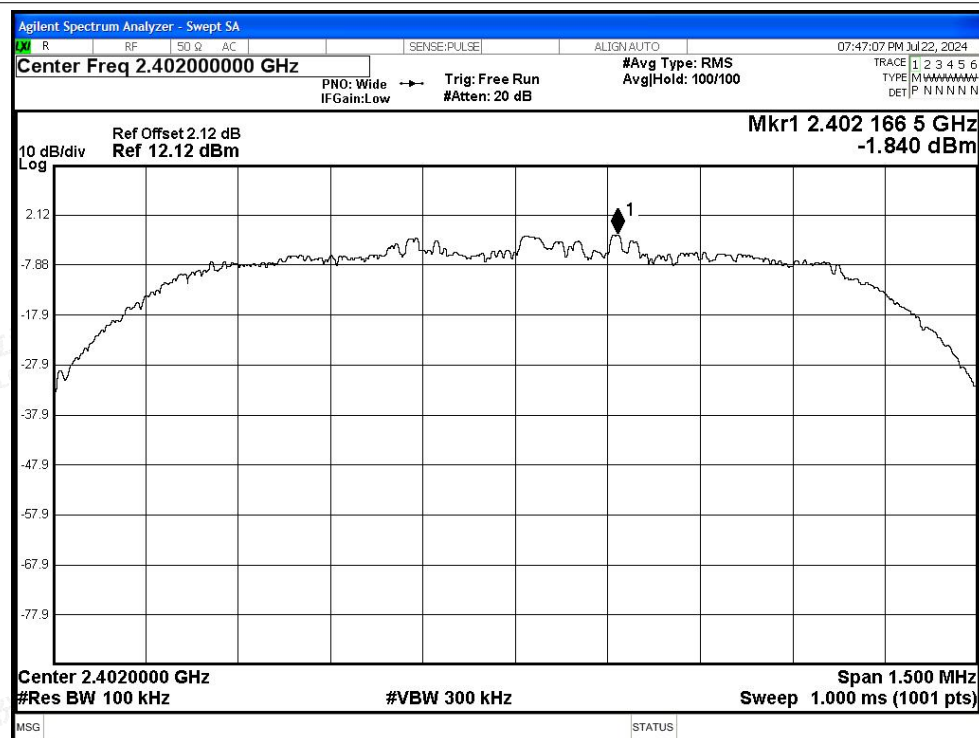


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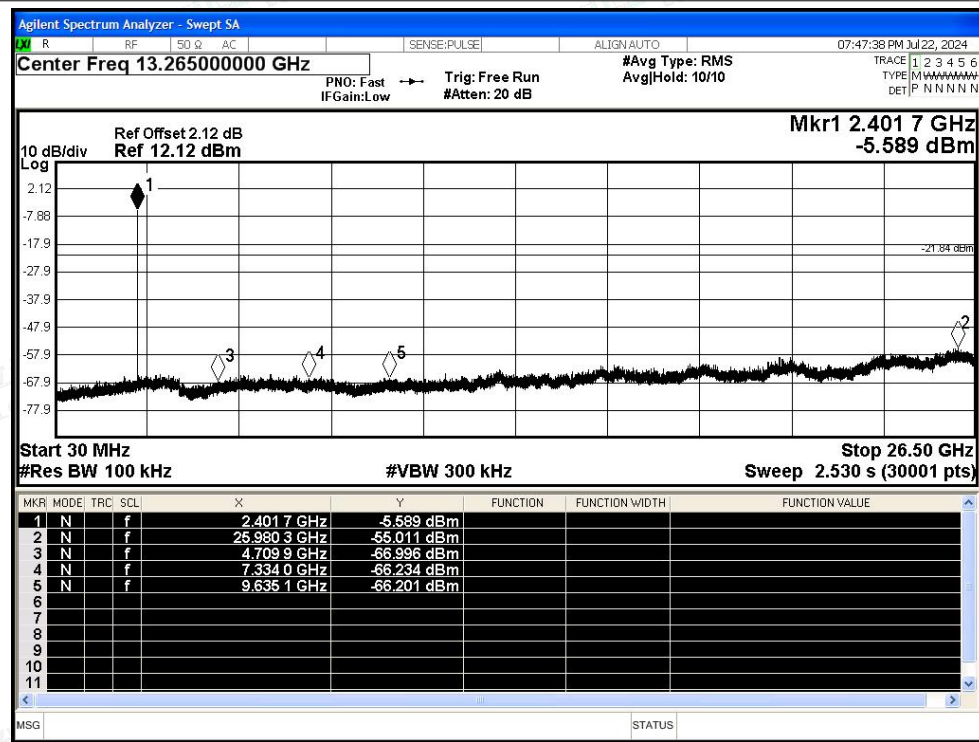


Test Graphs

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

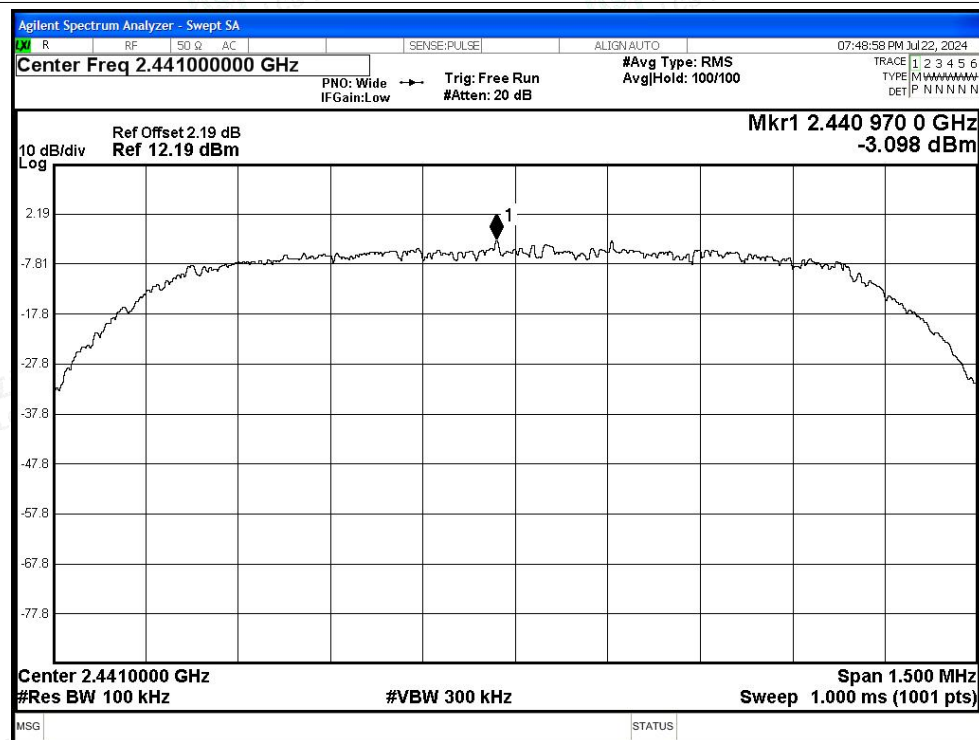


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

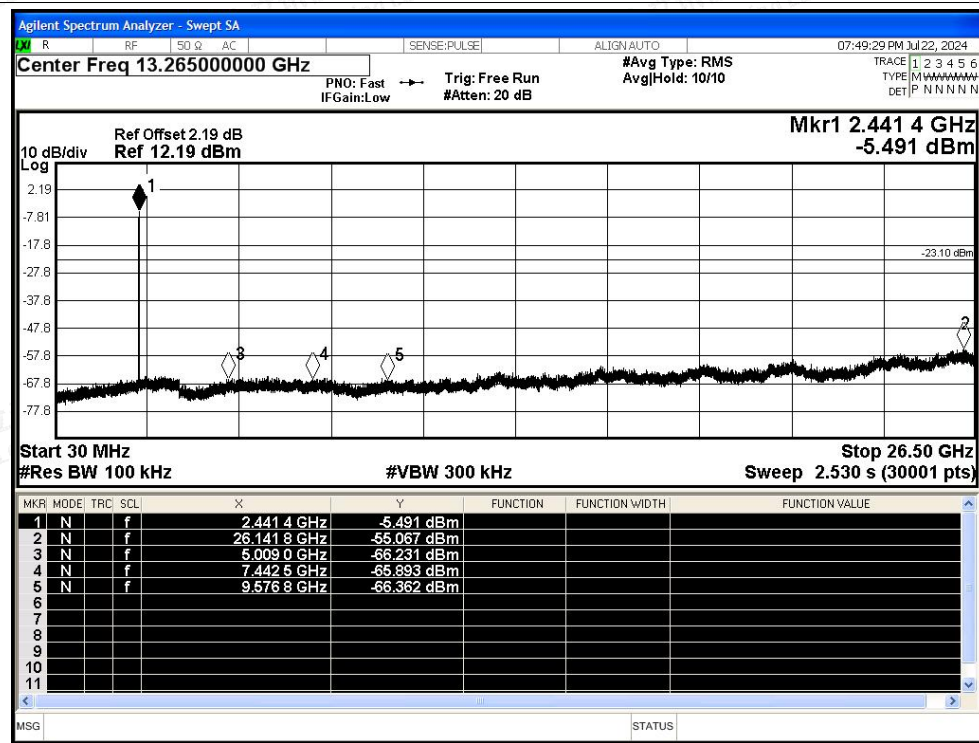




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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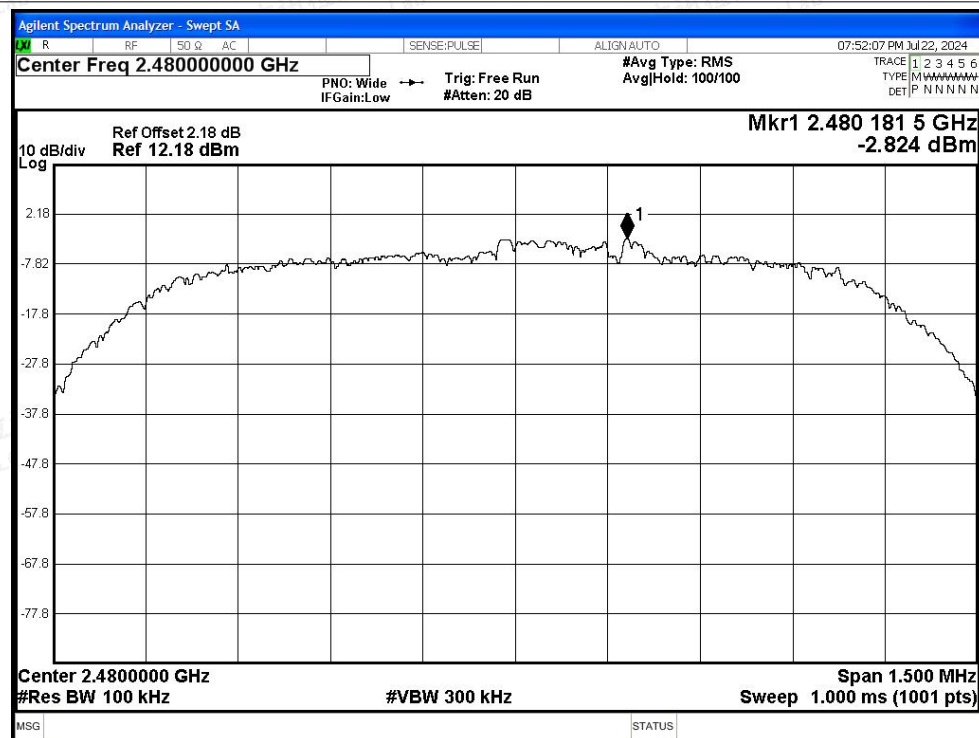
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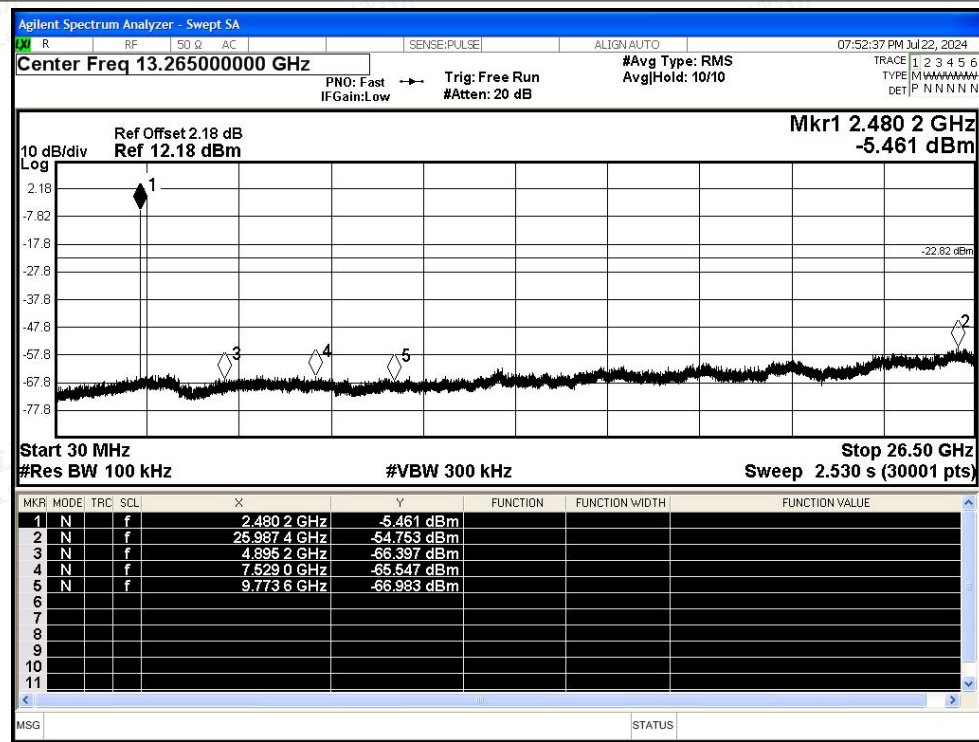
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

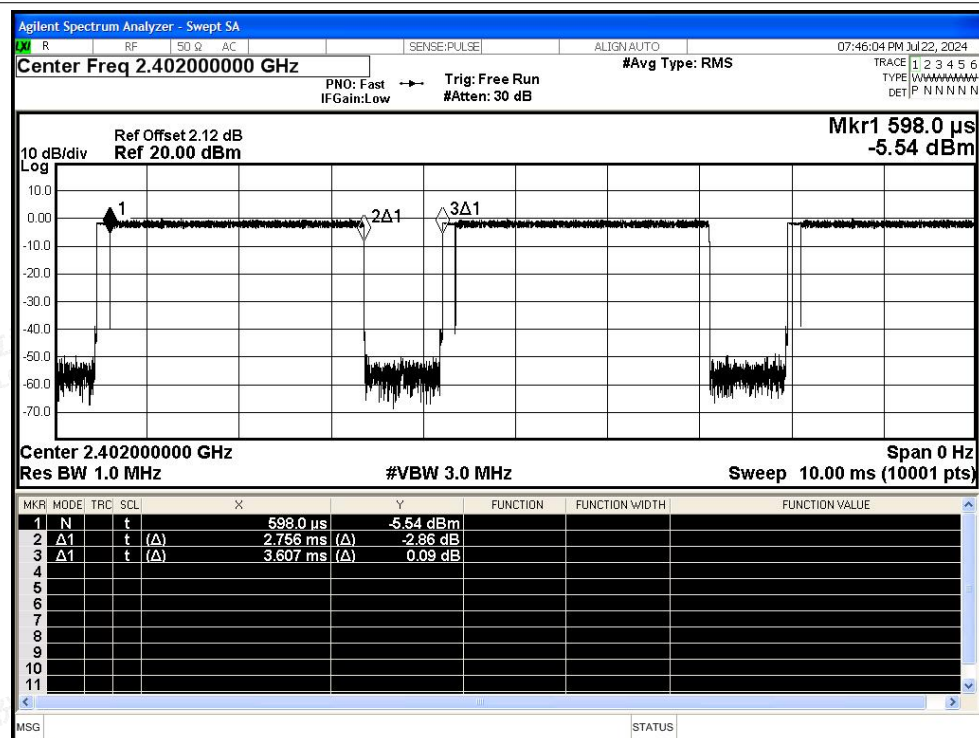
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2-DH5	2402	Ant1	76.41	1.17	0.36
NVNT	2-DH5	2441	Ant1	76.41	1.17	0.36
NVNT	2-DH5	2480	Ant1	76.41	1.17	0.36



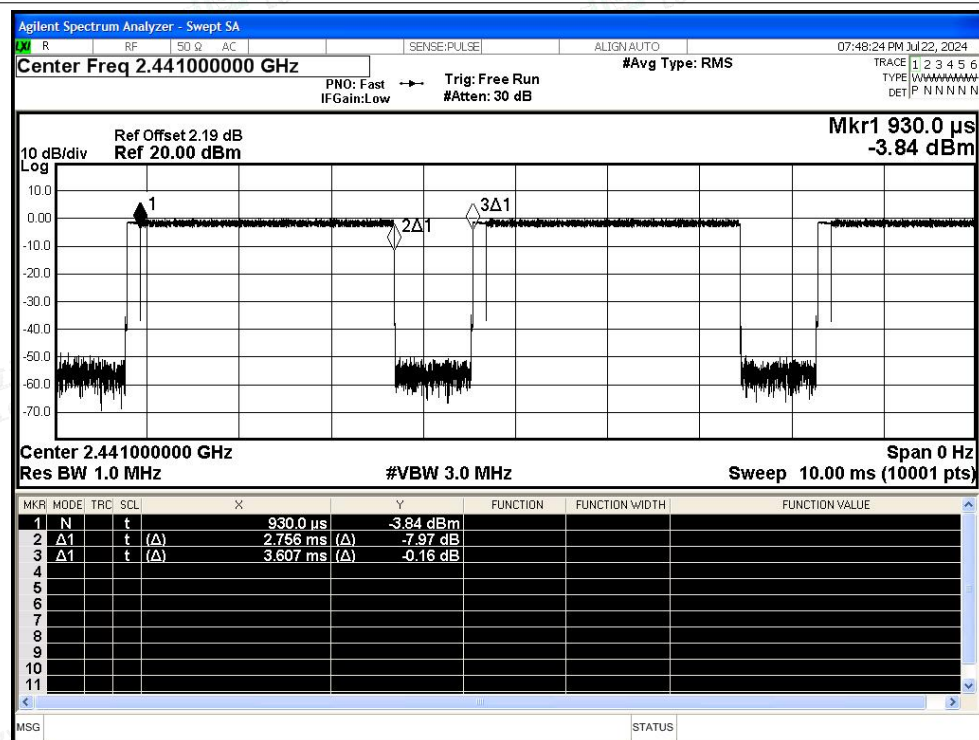


Test Graphs

Duty Cycle NVNT 2-DH5 2402MHz Ant1



Duty Cycle NVNT 2-DH5 2441MHz Ant1

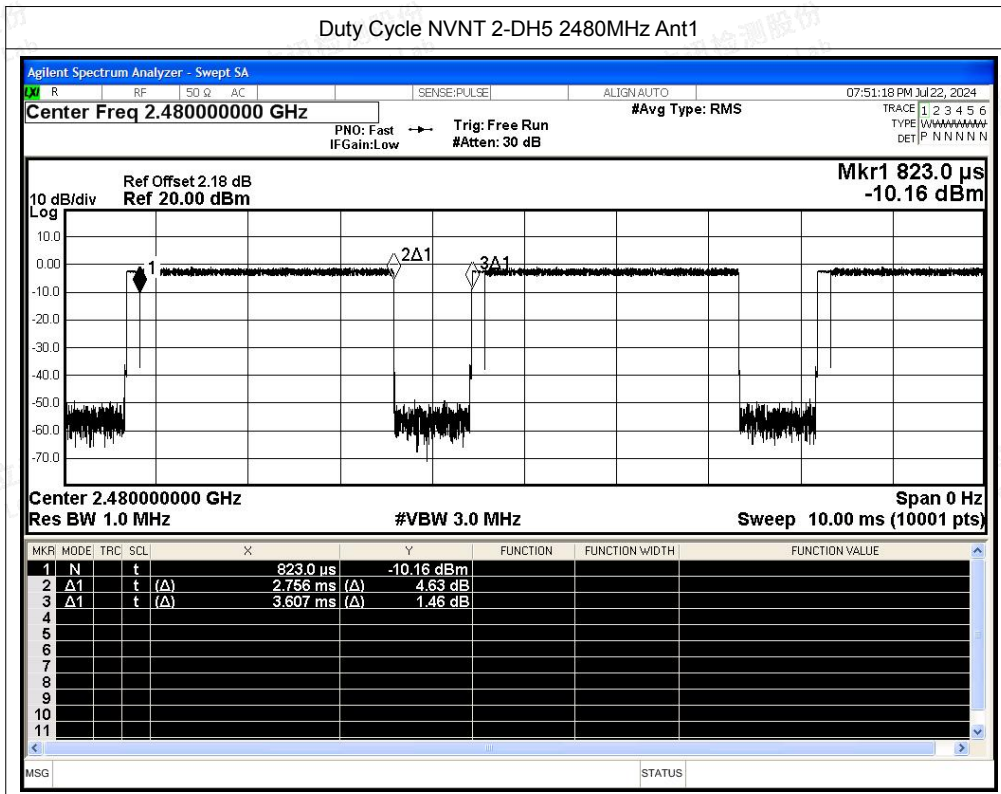


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A.9 Restrict Band

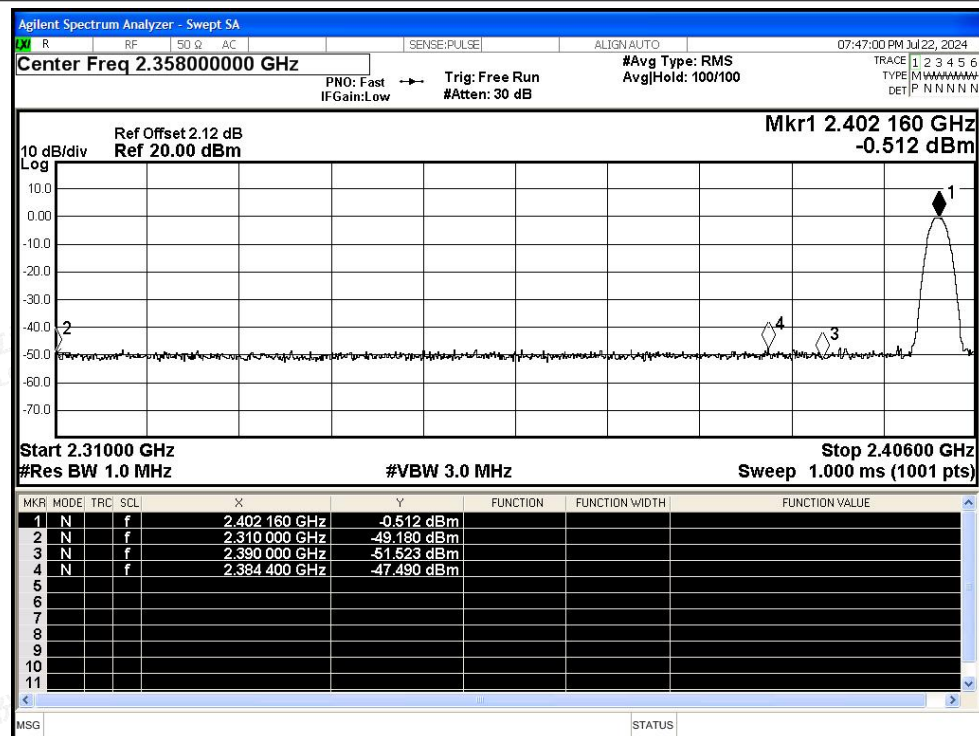
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.18	2	-	48.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.23	2	1.17	39.2	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.4	-47.49	2	-	49.77	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.704	-57.43	2	1.17	41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.52	2	-	45.74	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.77	2	1.17	39.66	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.65	2	-	47.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.6	2	1.17	40.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.24	-44.7	2	-	52.56	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.824	-57.07	2	1.17	41.36	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.38	2	-	48.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.99	2	1.17	40.44	Average	54	Pass



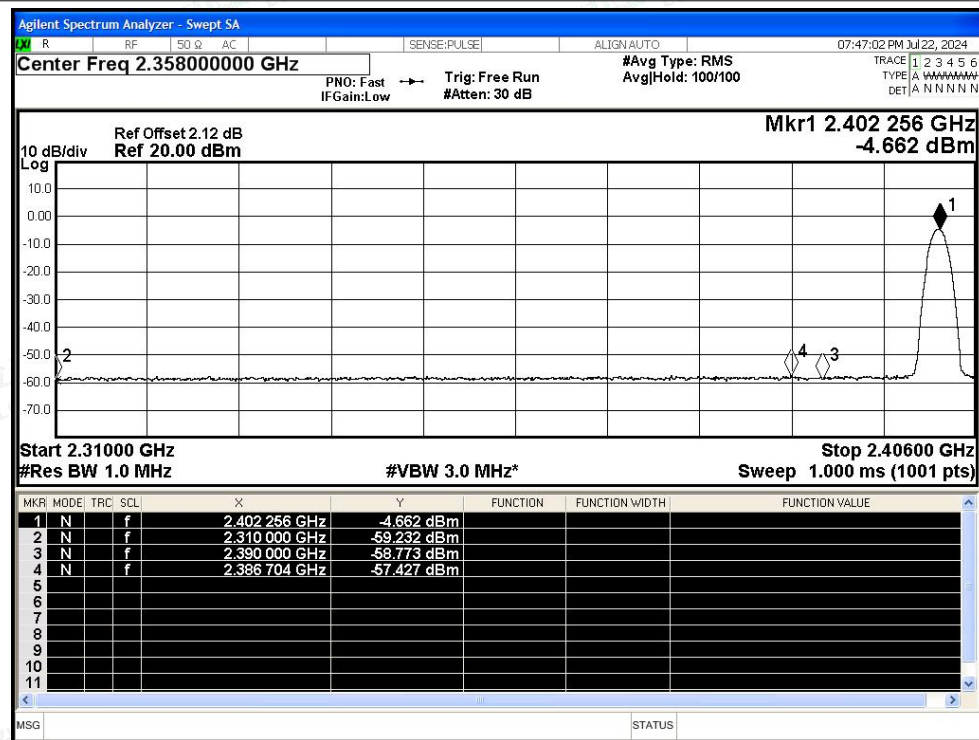


Test Graphs

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

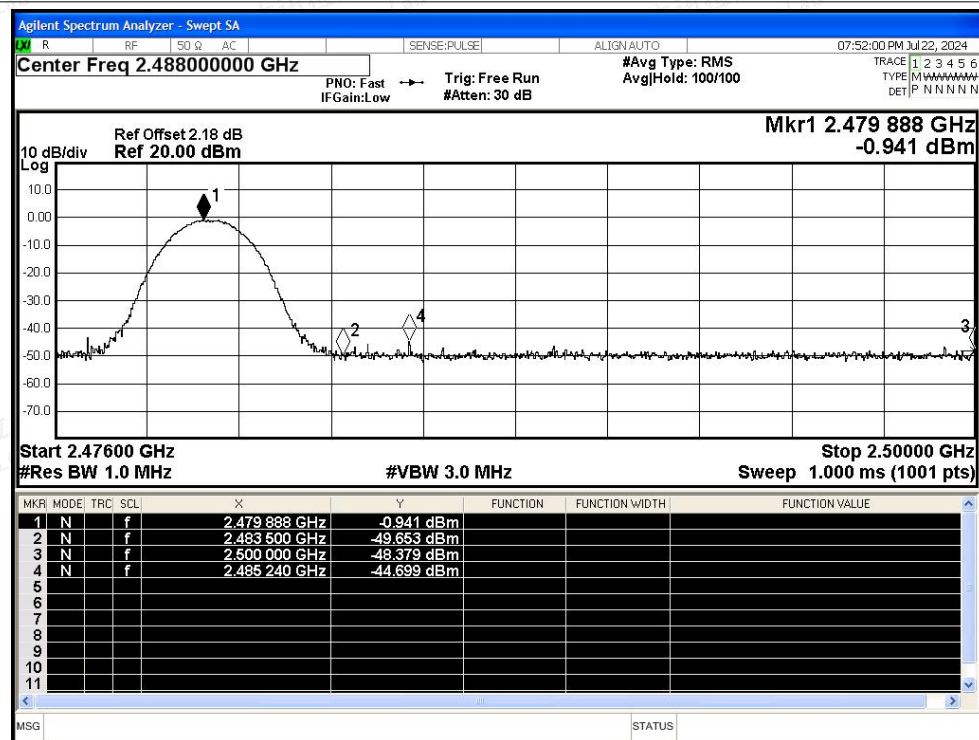


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

