



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless earphone

Test Model: BHD-TW10

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	0.91	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.846	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.84	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.266	N/A	Pass

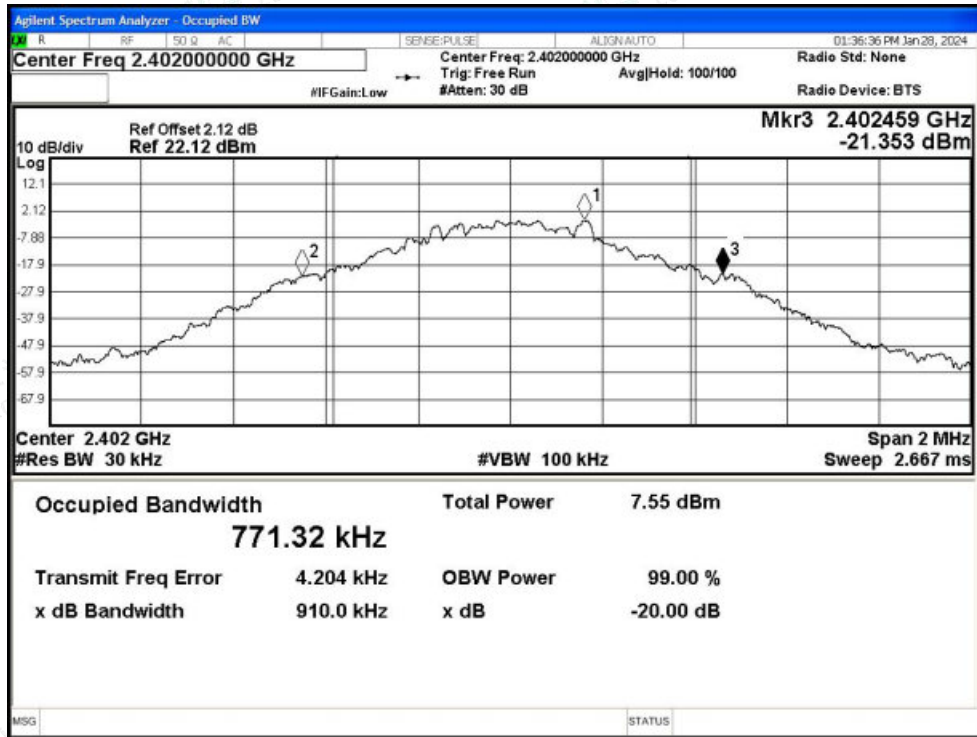


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

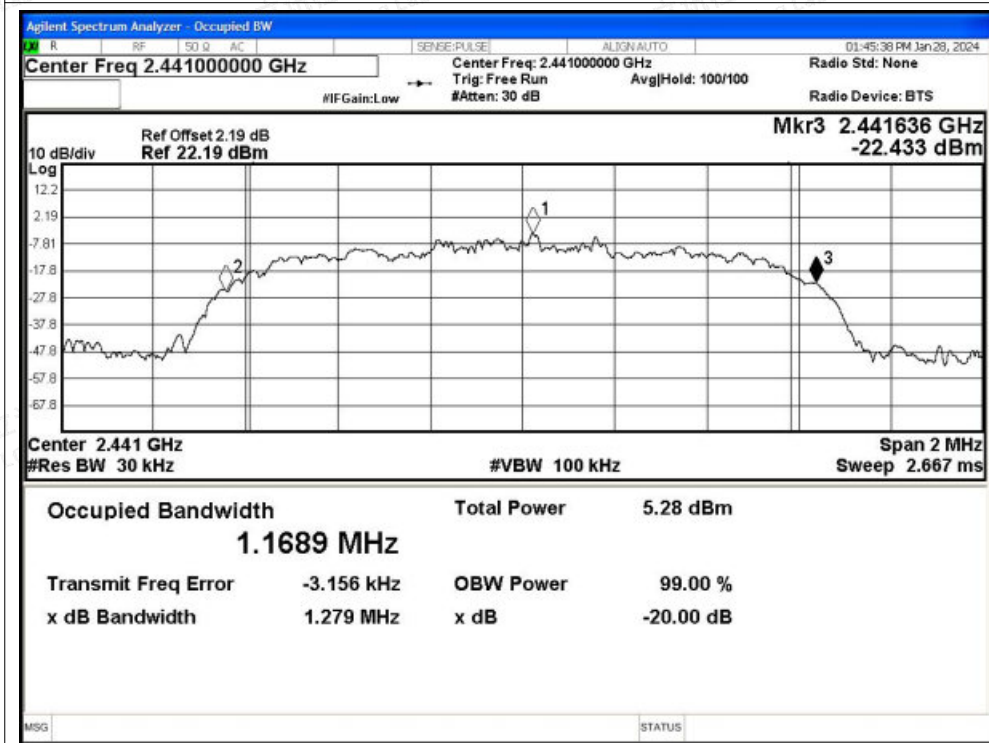


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-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	1.6	21	Pass
NVNT	1-DH5	2441	Ant1	1.45	21	Pass
NVNT	1-DH5	2480	Ant1	-0.4	21	Pass
NVNT	2-DH5	2402	Ant1	1.56	21	Pass
NVNT	2-DH5	2441	Ant1	0.63	21	Pass
NVNT	2-DH5	2480	Ant1	-1.31	21	Pass

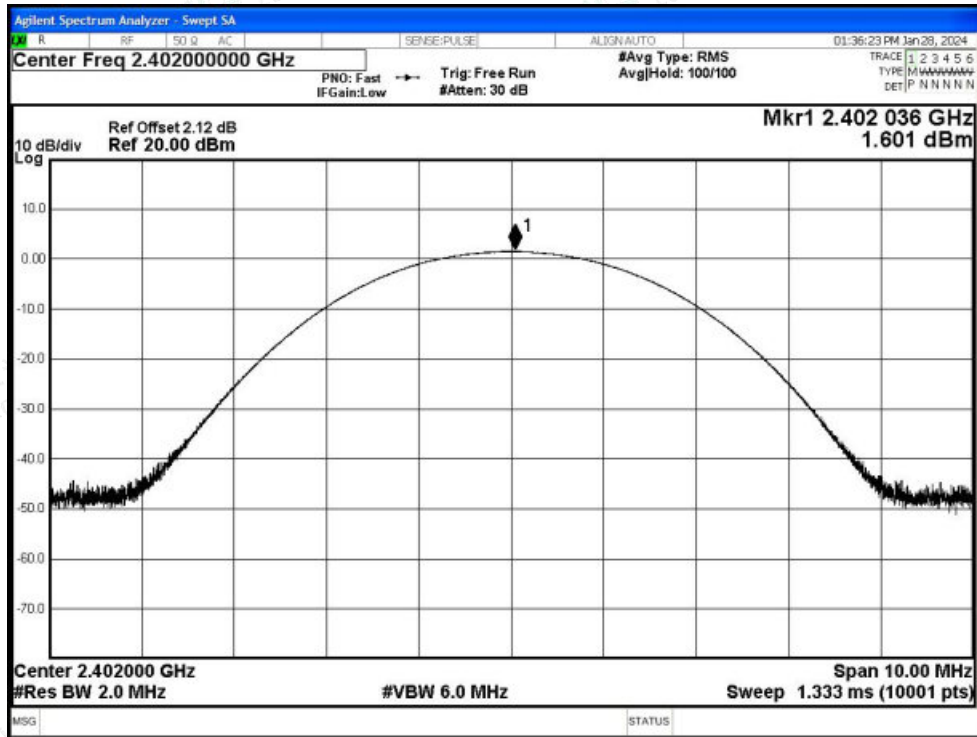


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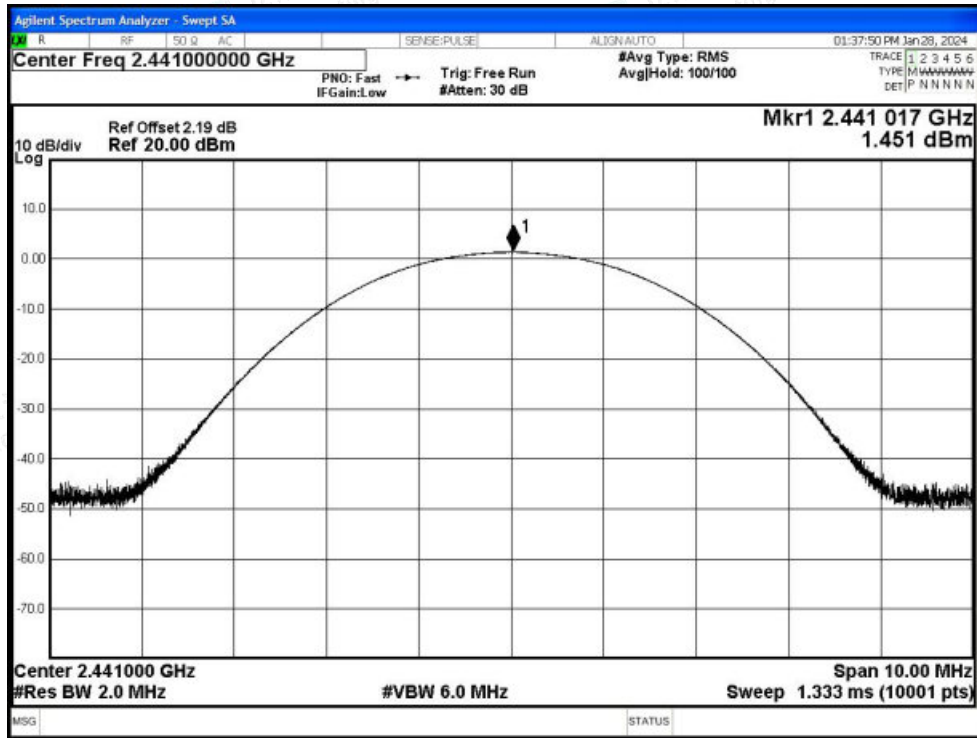


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

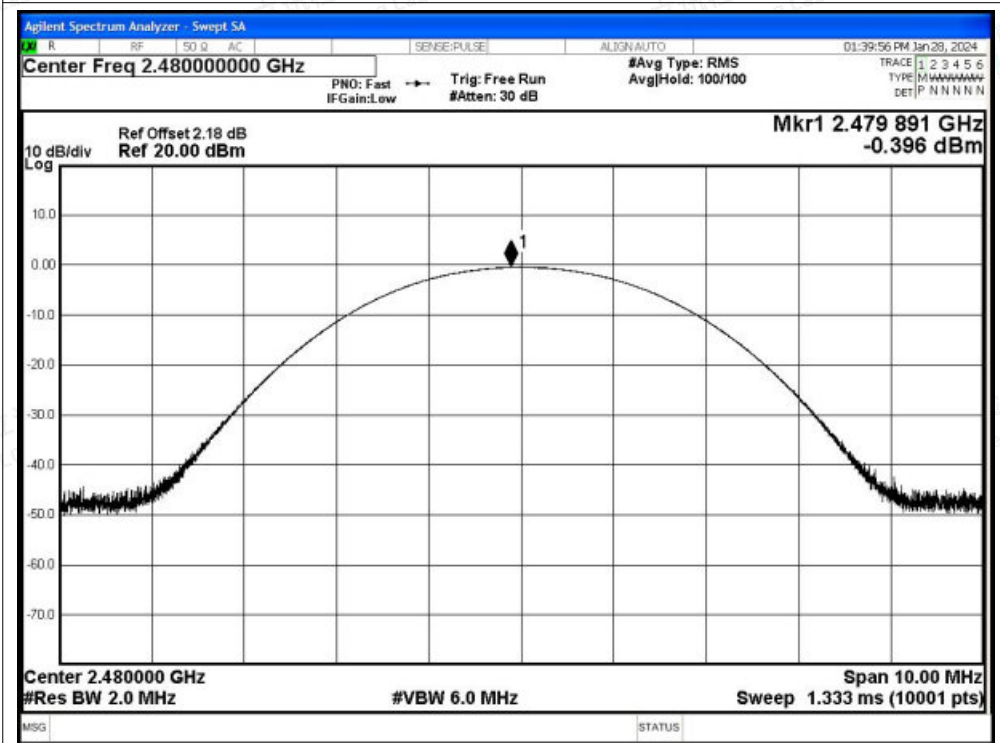


Power NVNT 1-DH5 2441MHz Ant1

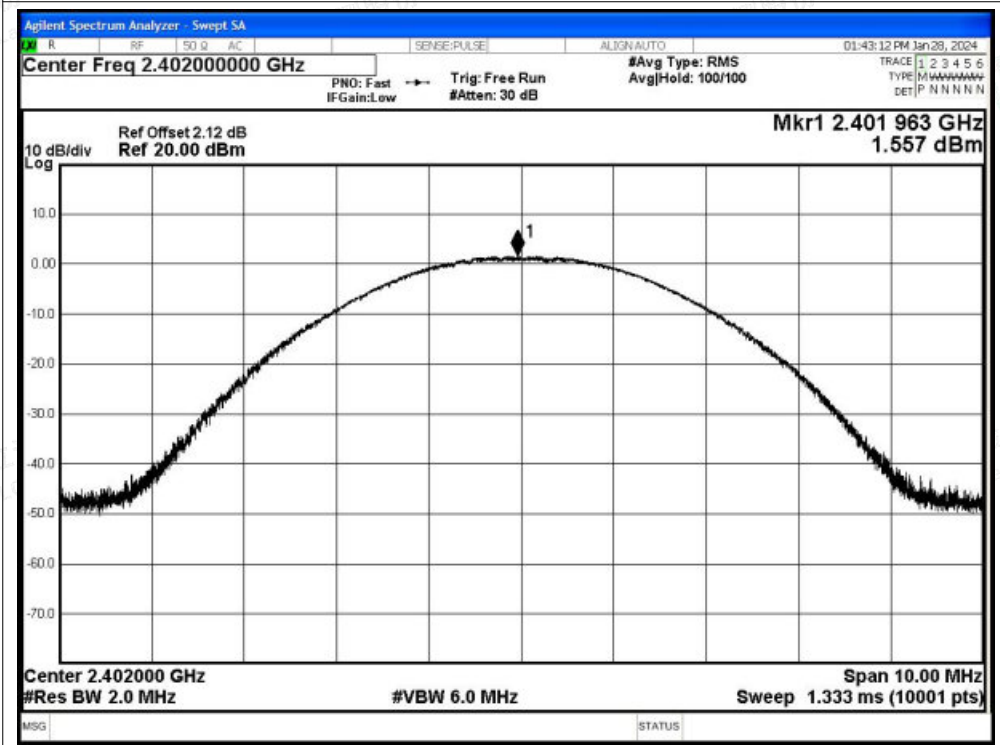




Power NVNT 1-DH5 2480MHz Ant1

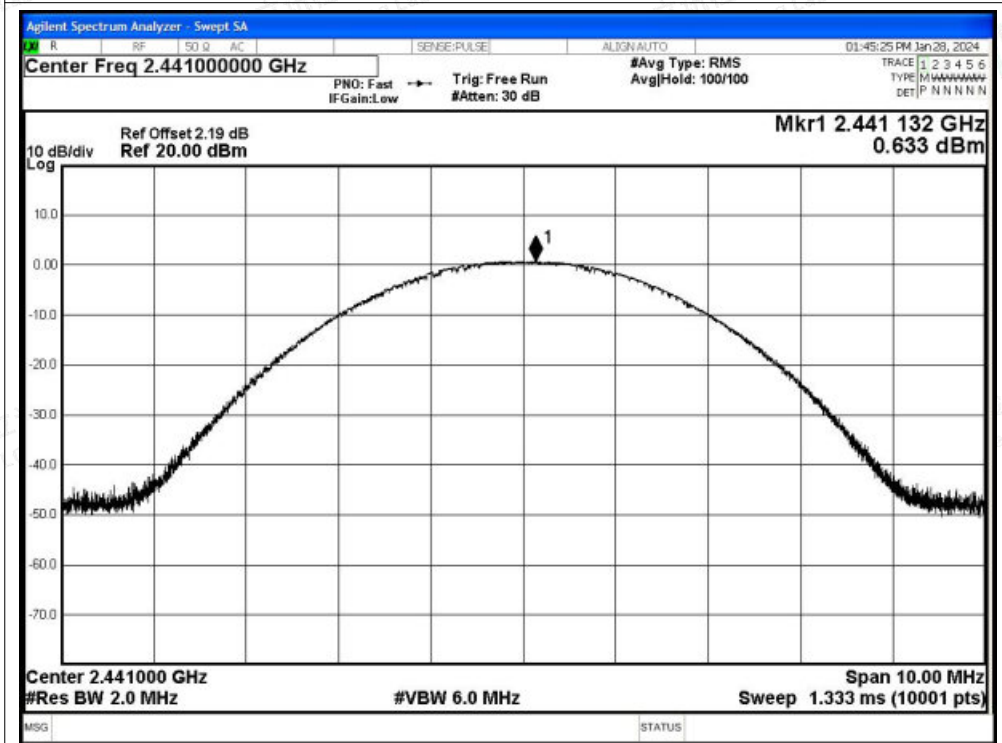


Power NVNT 2-DH5 2402MHz Ant1

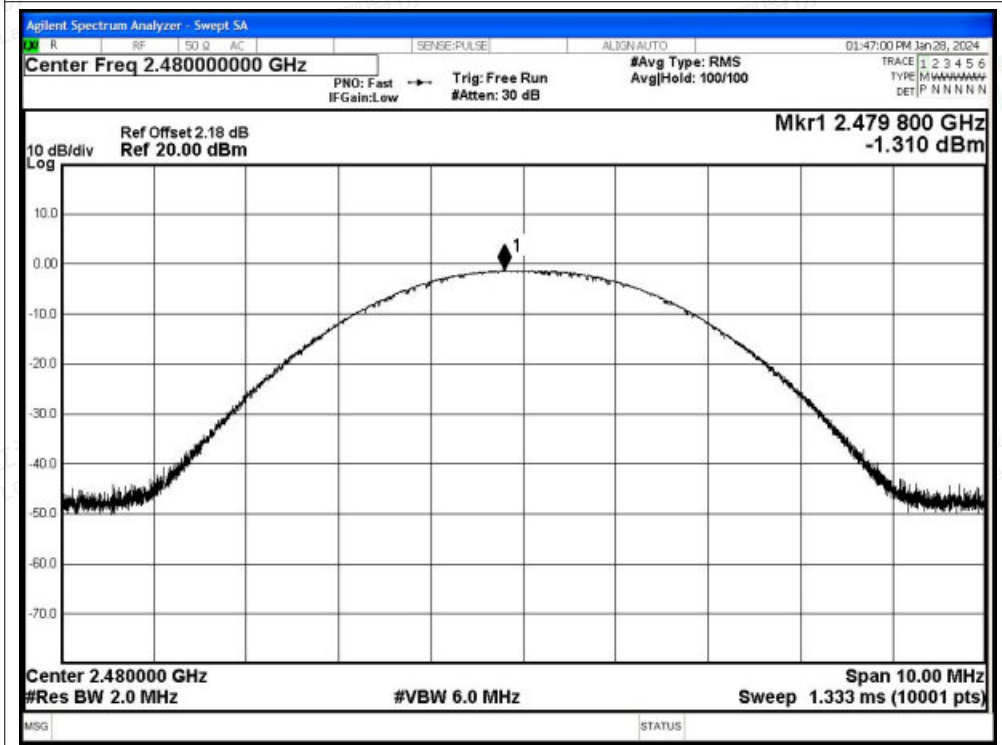




Power NVNT 2-DH5 2441MHz Ant1



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	2402.16	2403.008	0.848	0.607	Pass
NVNT	2-DH5	Ant1	2402.16	2403.166	1.006	0.859	Pass

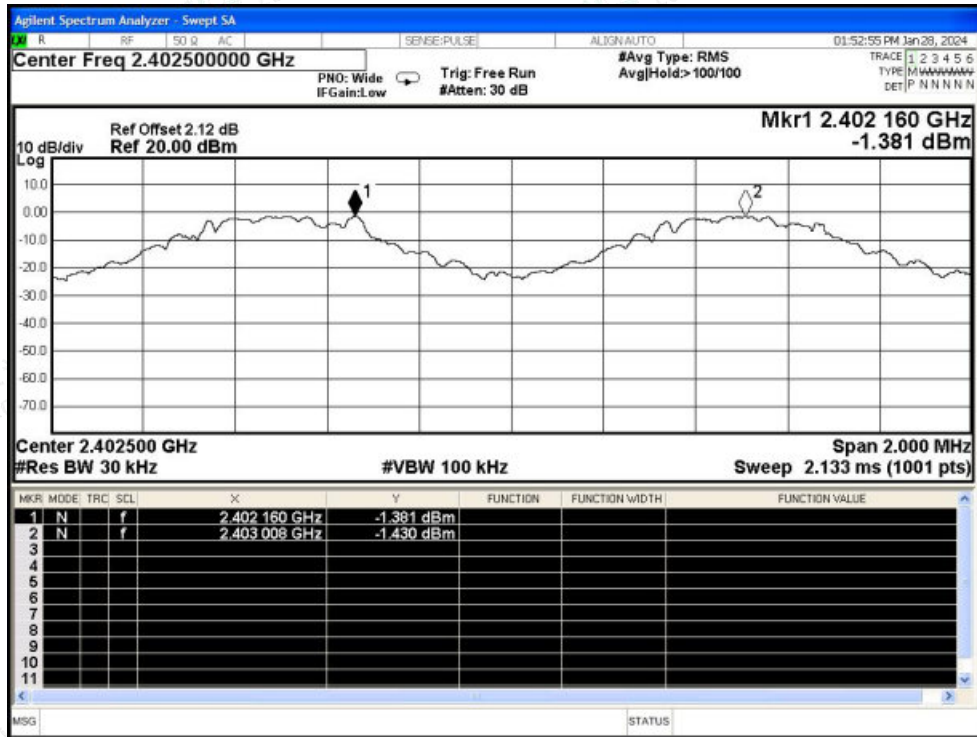


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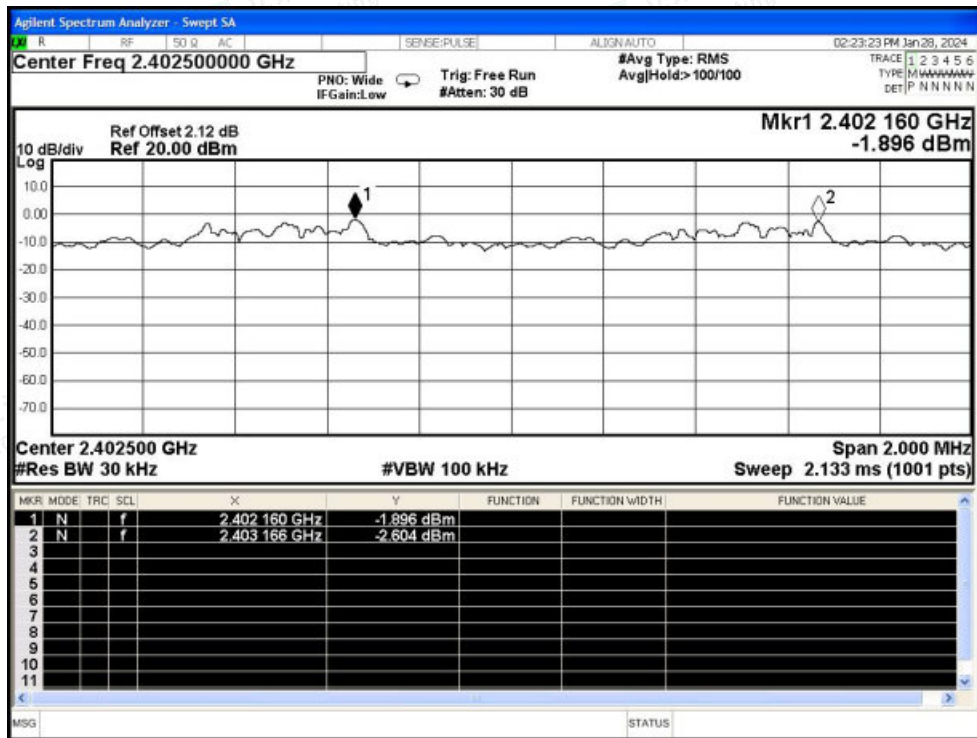


Test Graphs

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	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	296.743	103	31600	400	Pass

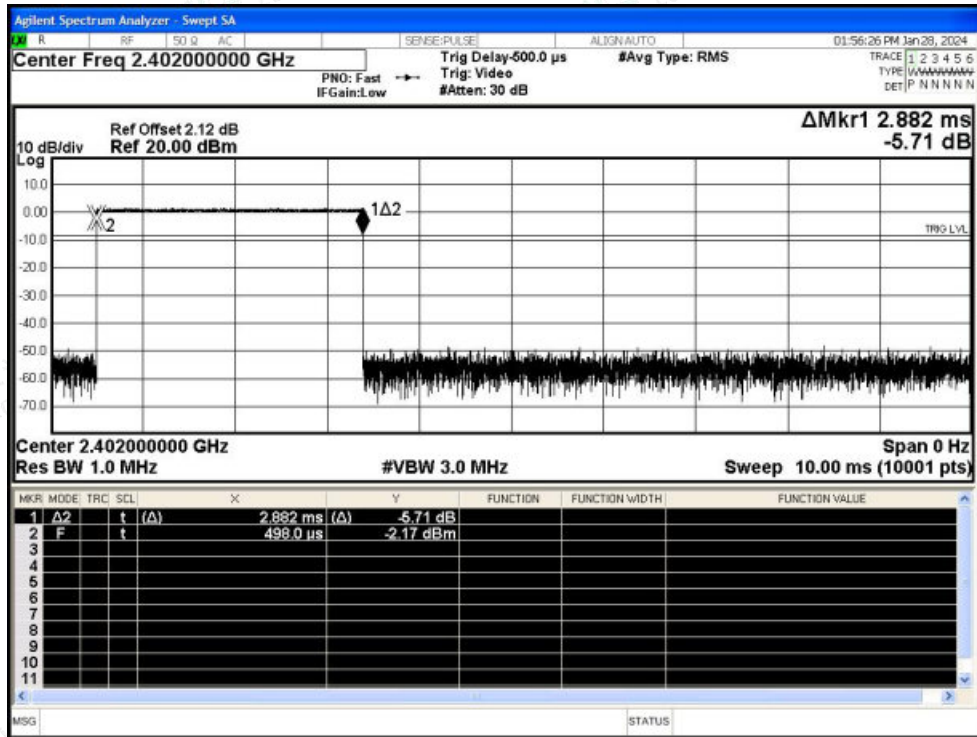


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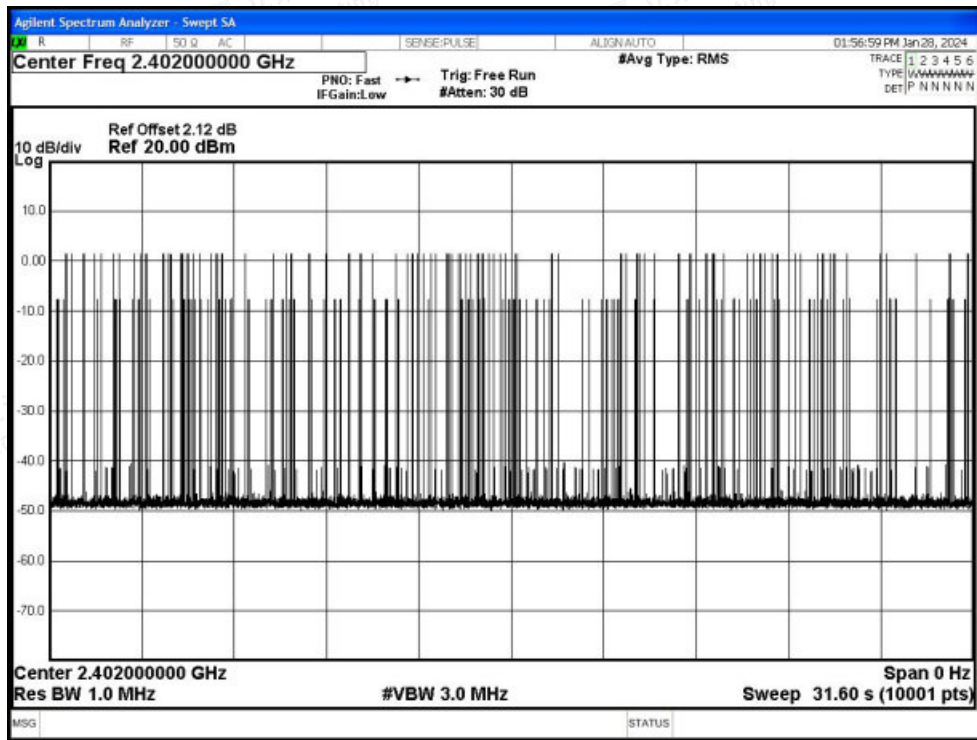


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

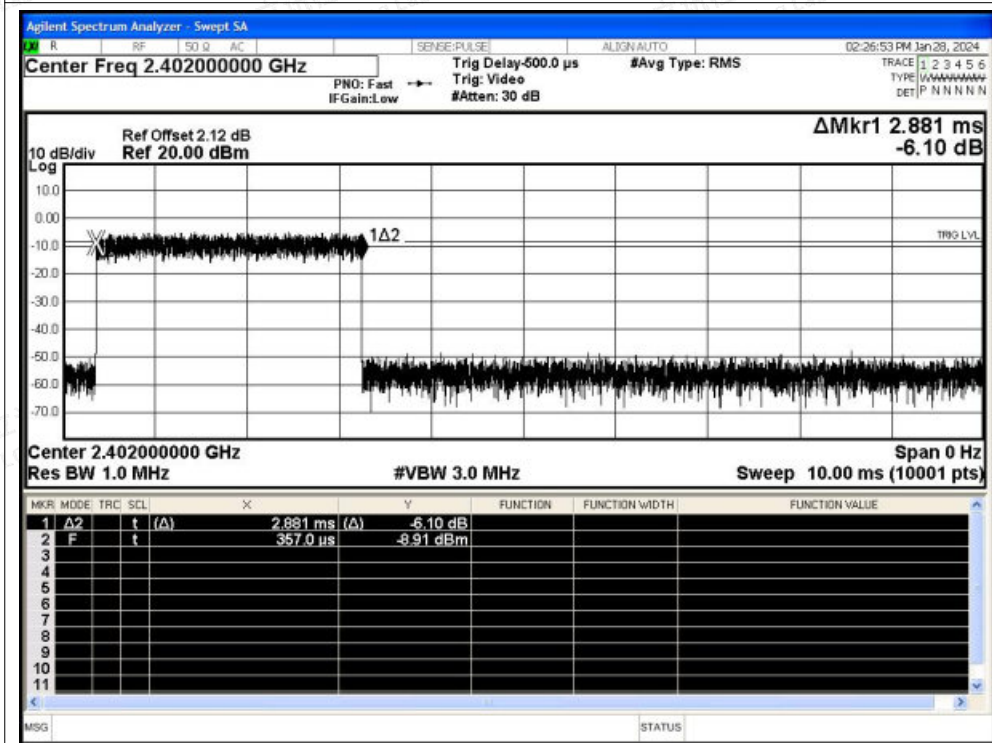


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

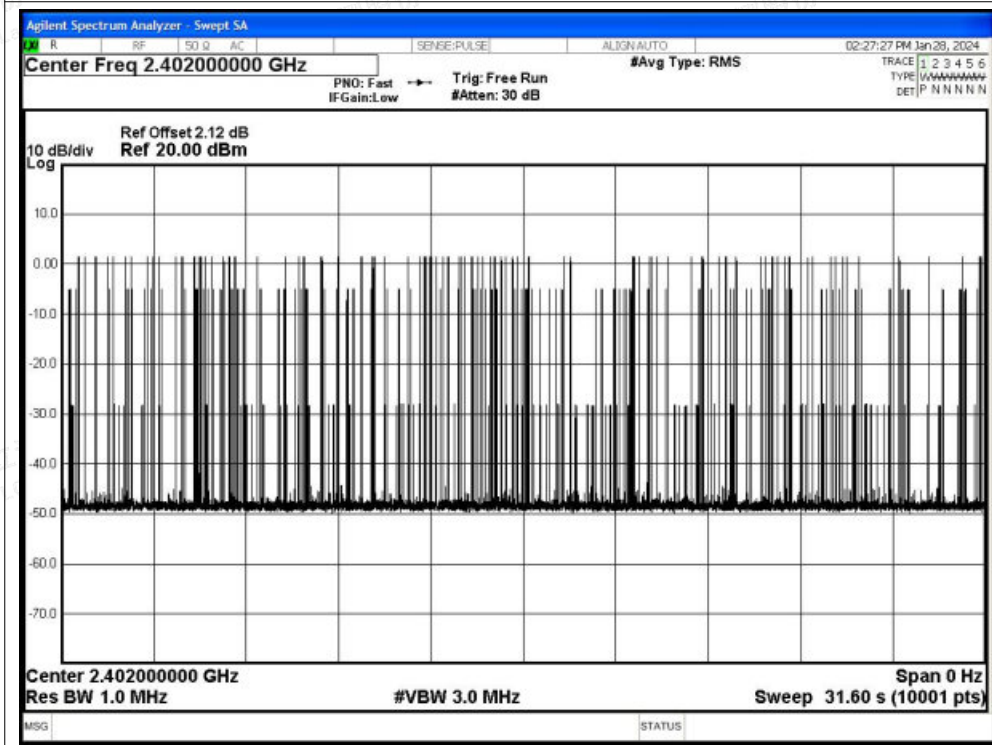




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



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

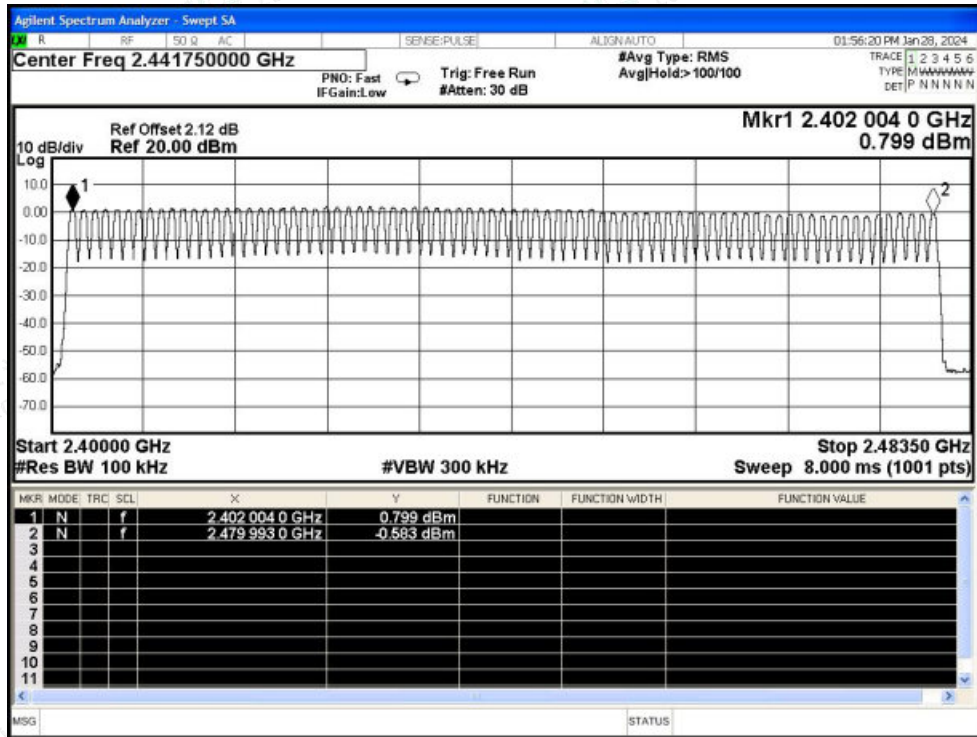


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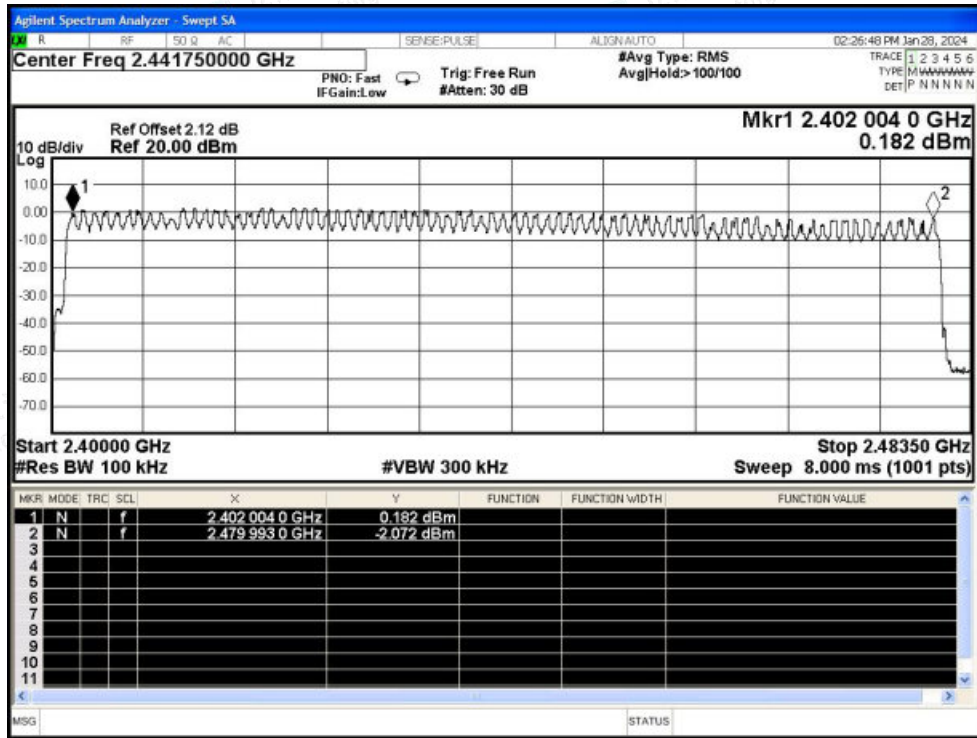


Test Graphs

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	-57.37	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.83	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.08	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.08	-20	Pass

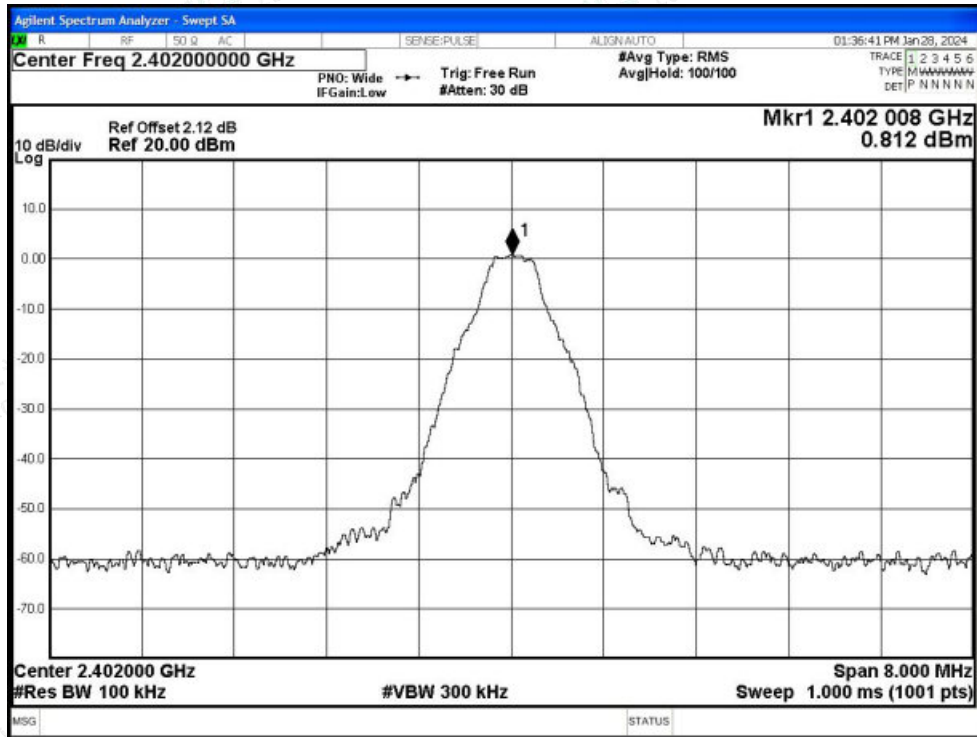


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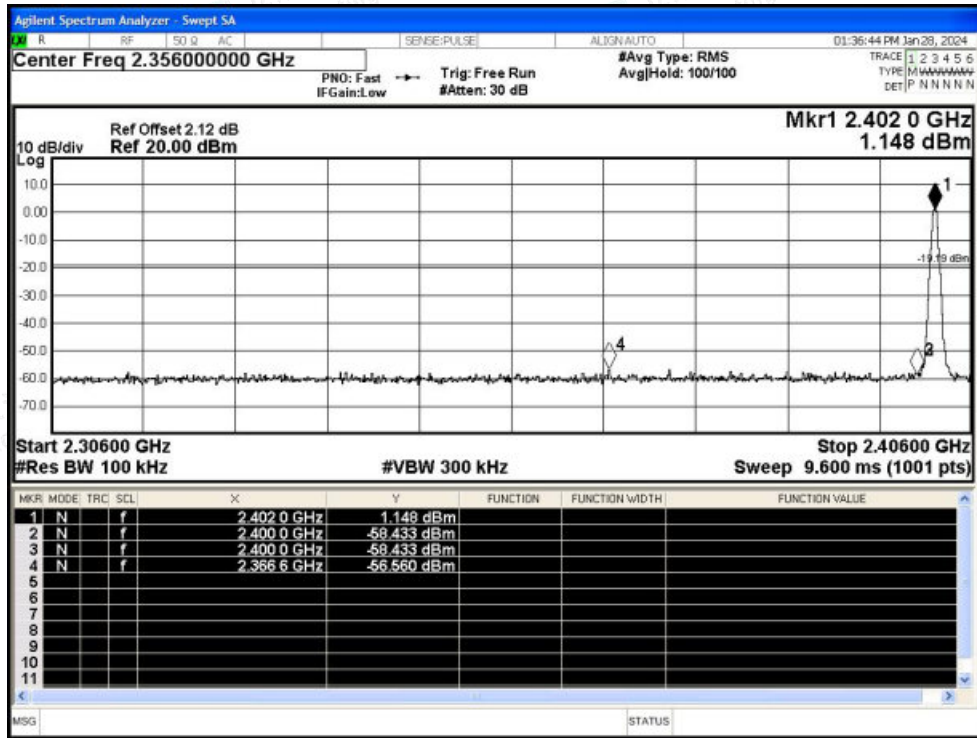


Test Graphs

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

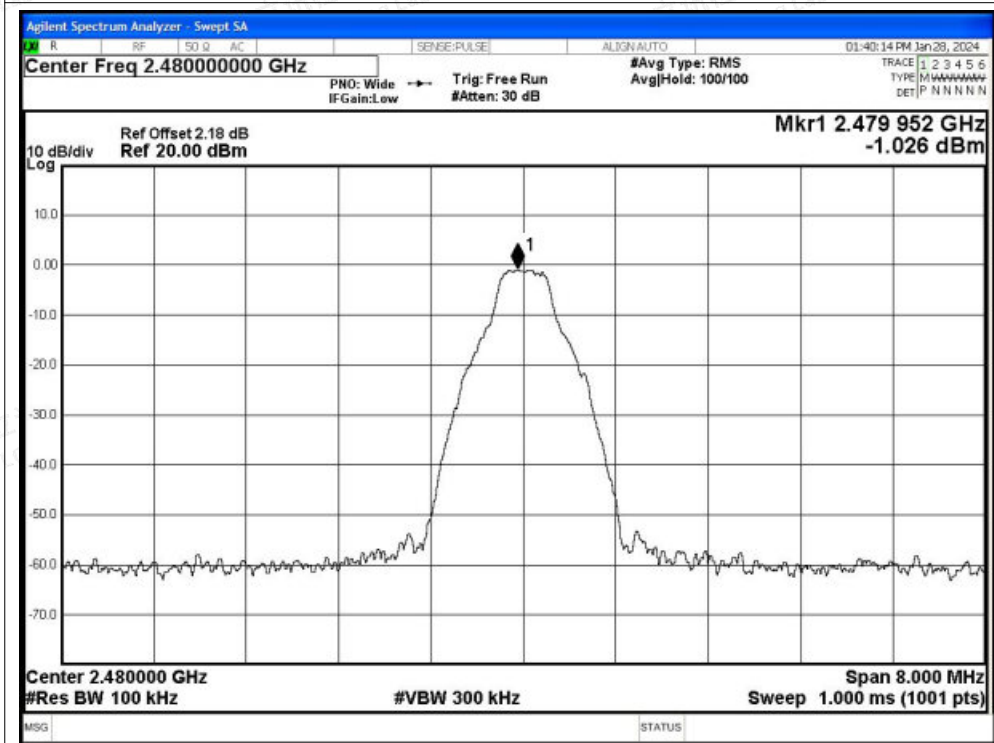


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

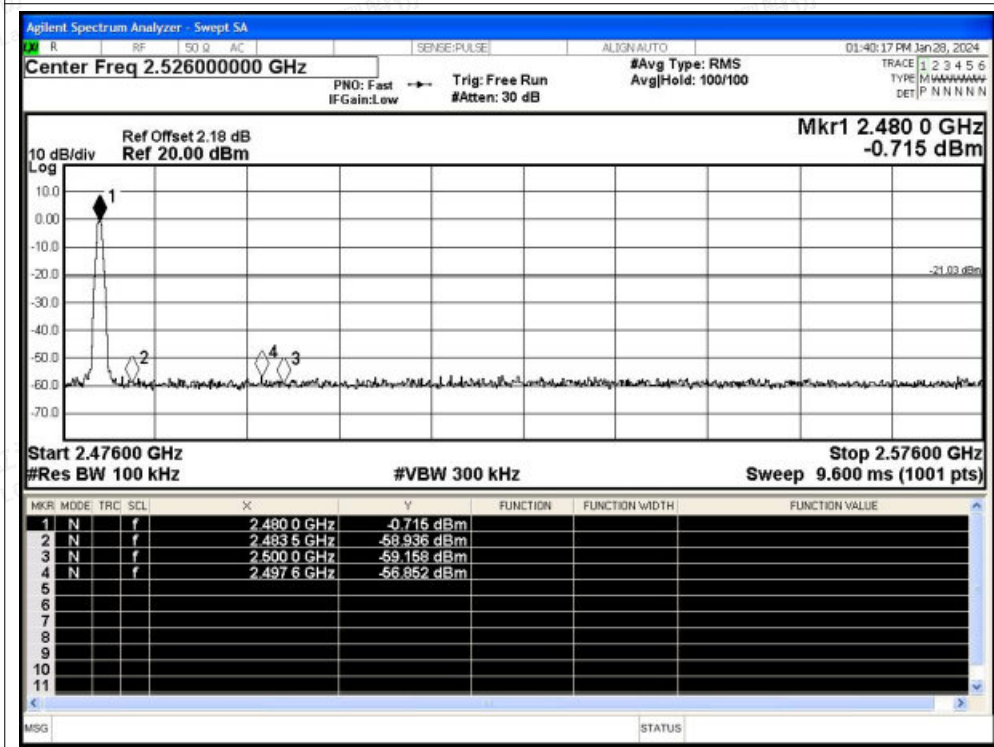




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

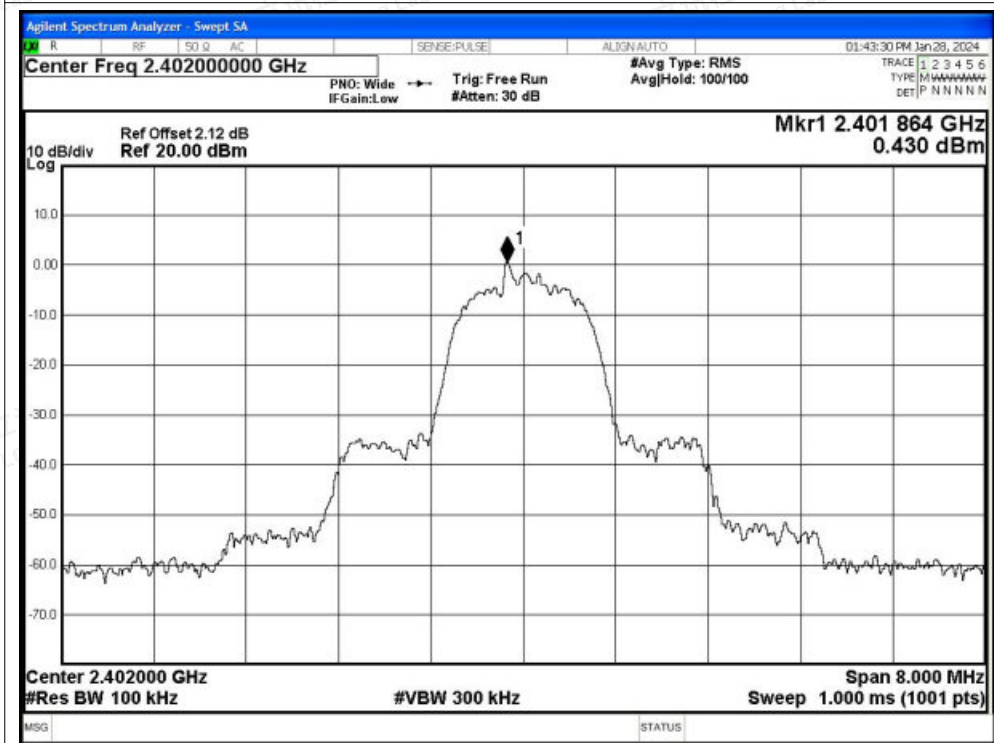


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

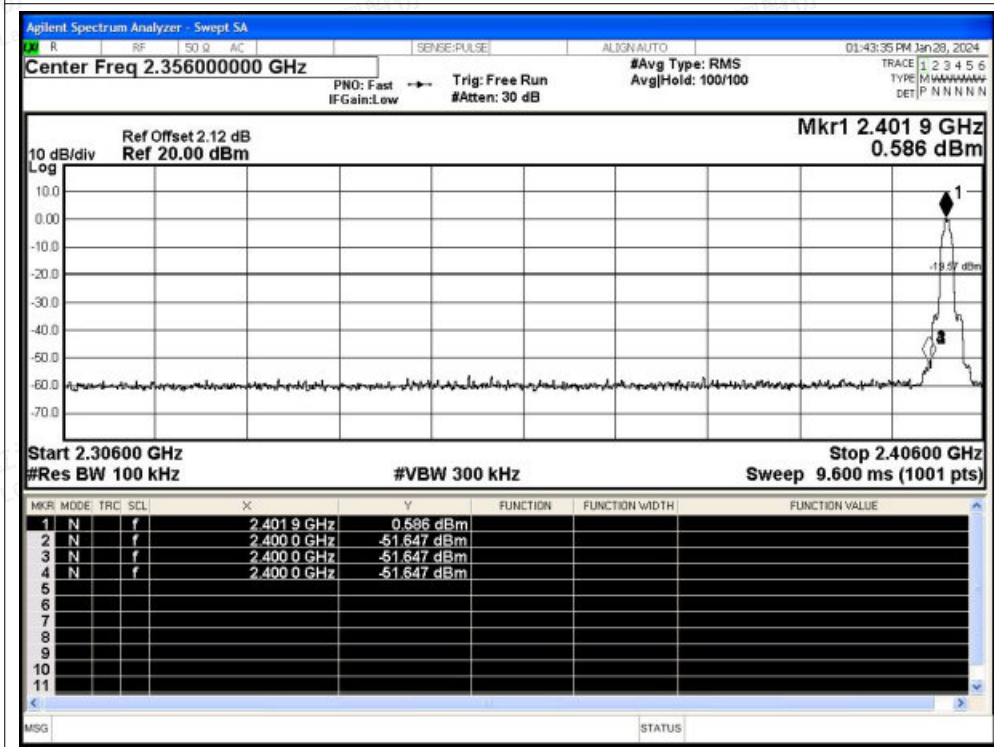




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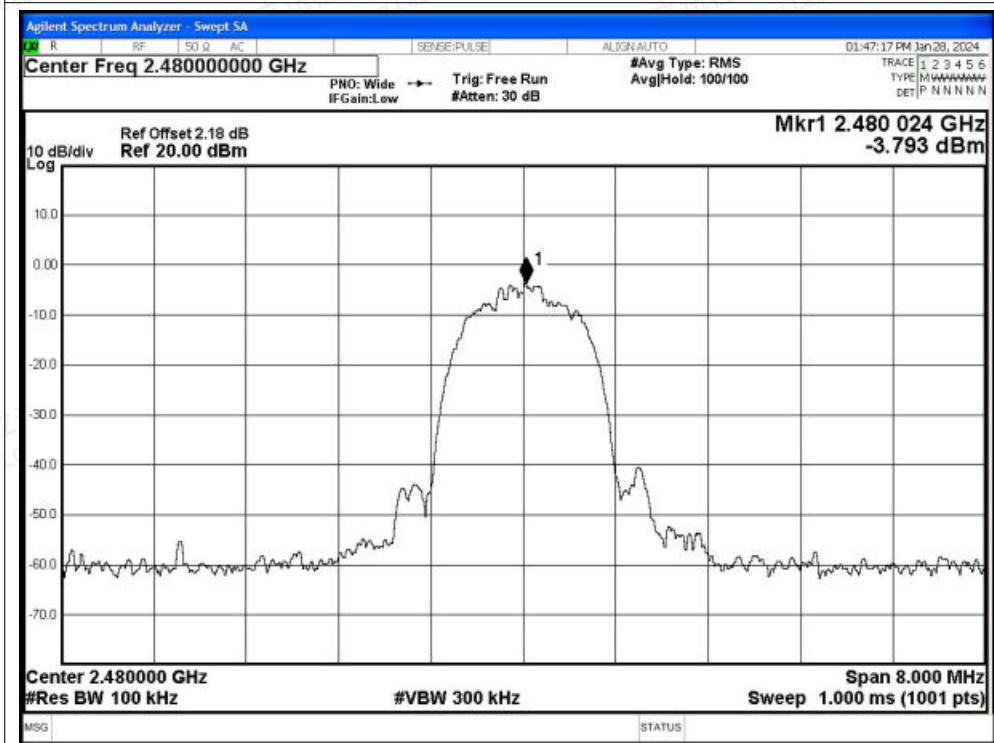


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

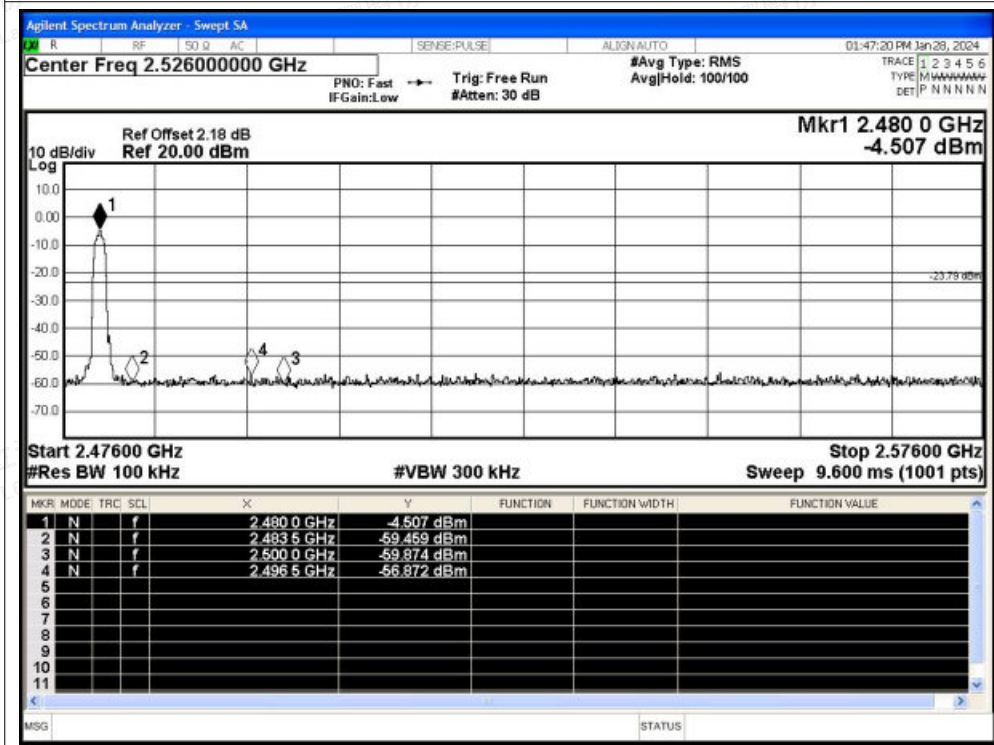




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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	-56.62	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.73	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.43	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.13	-20	Pass

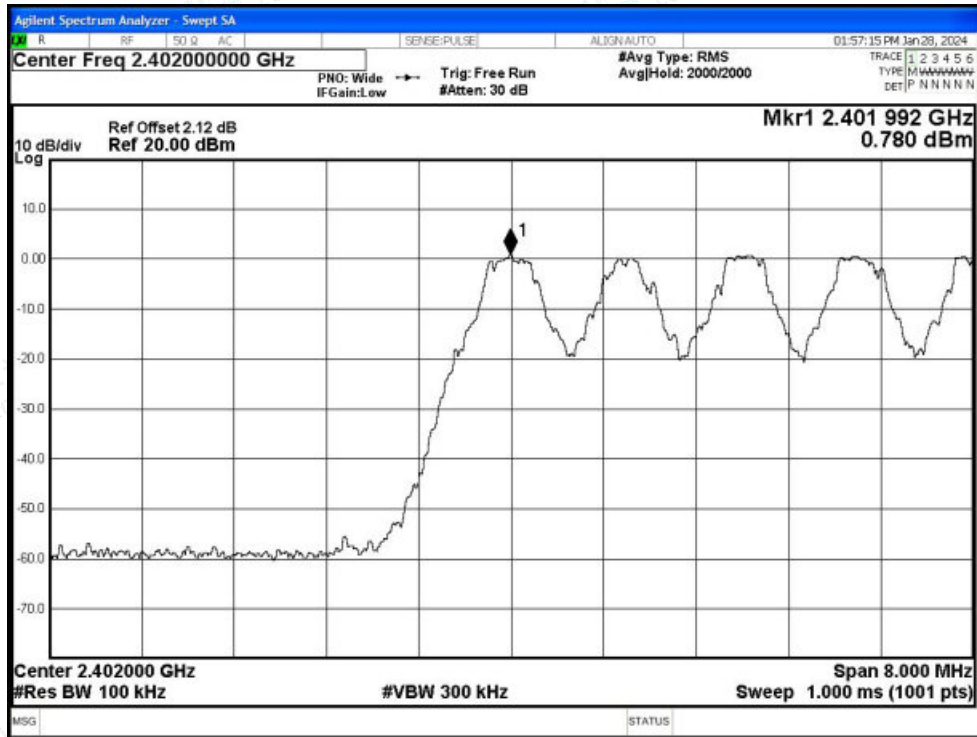


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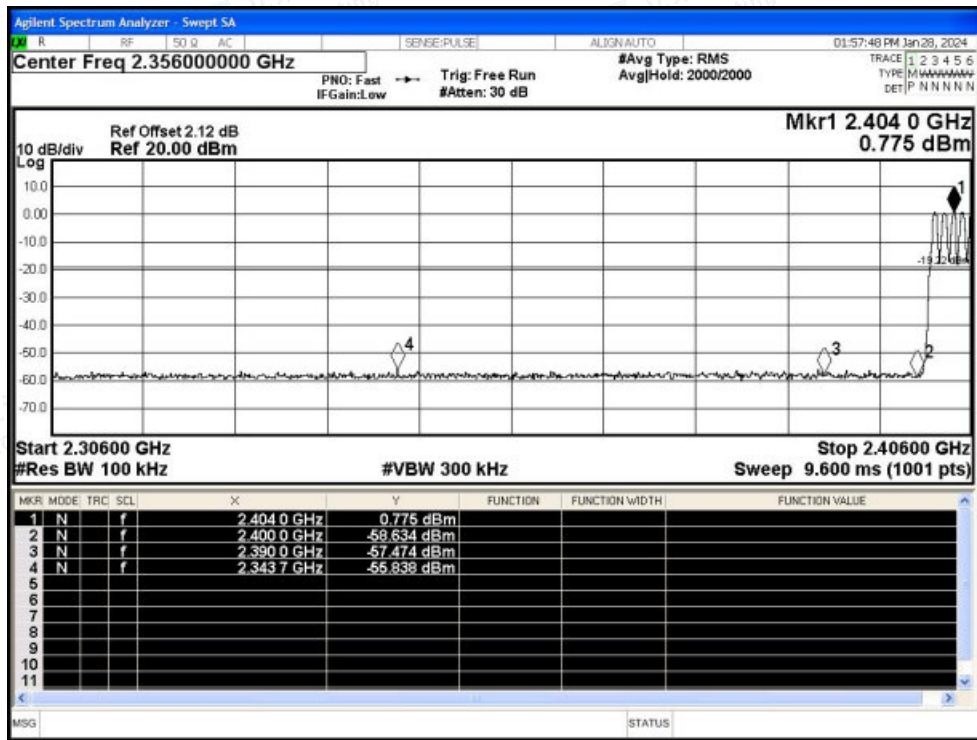


Test Graphs

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

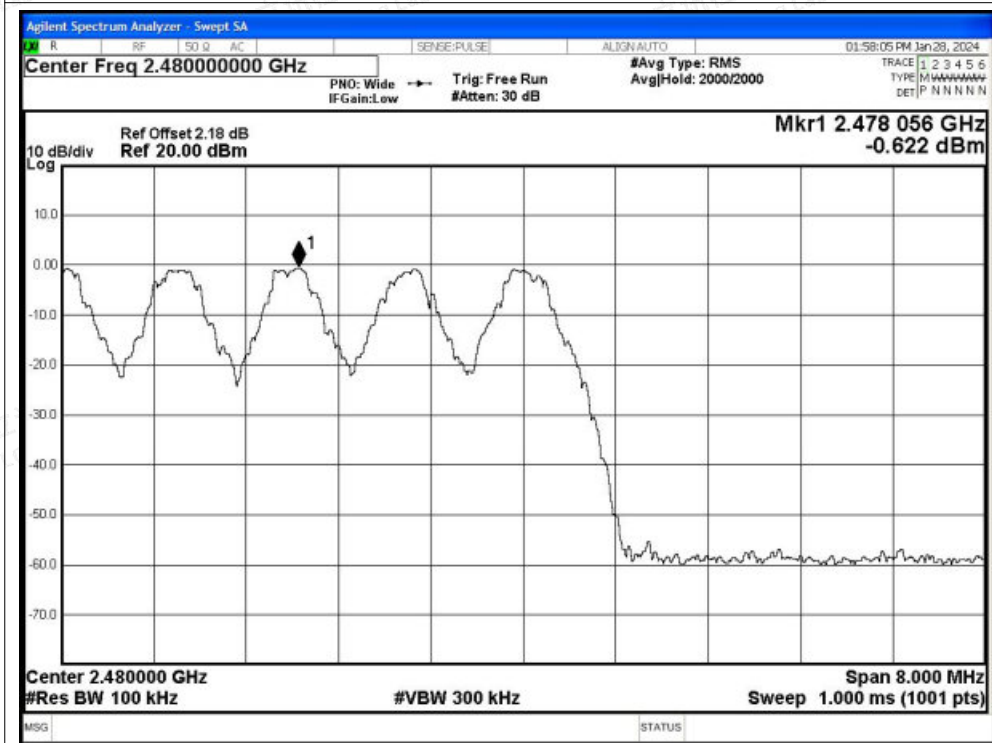


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

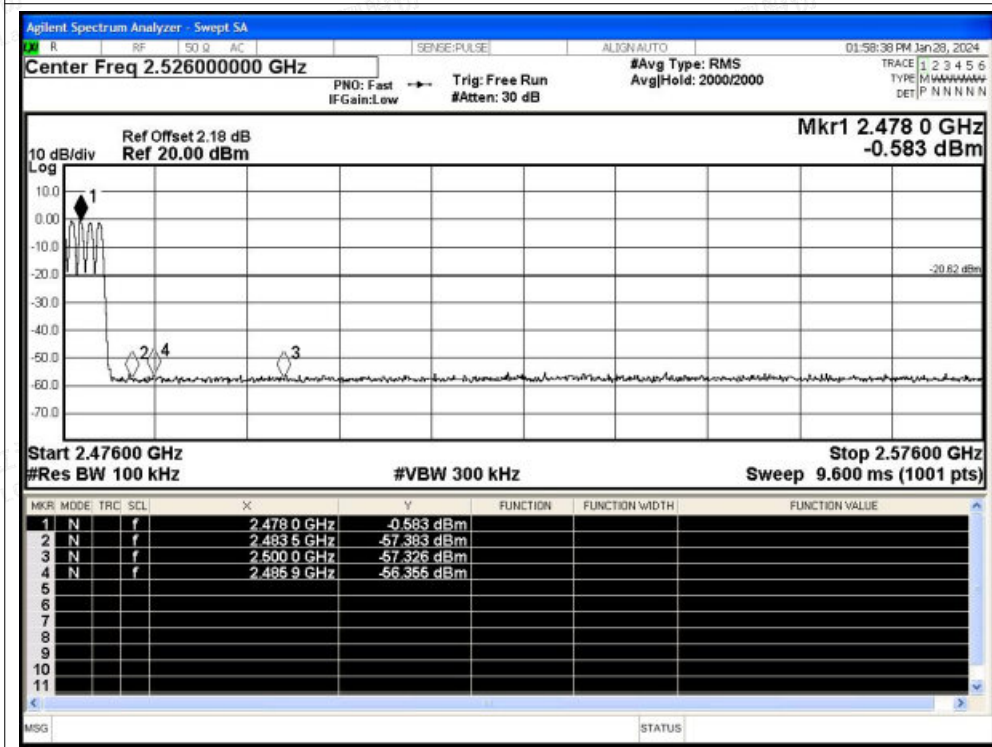




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

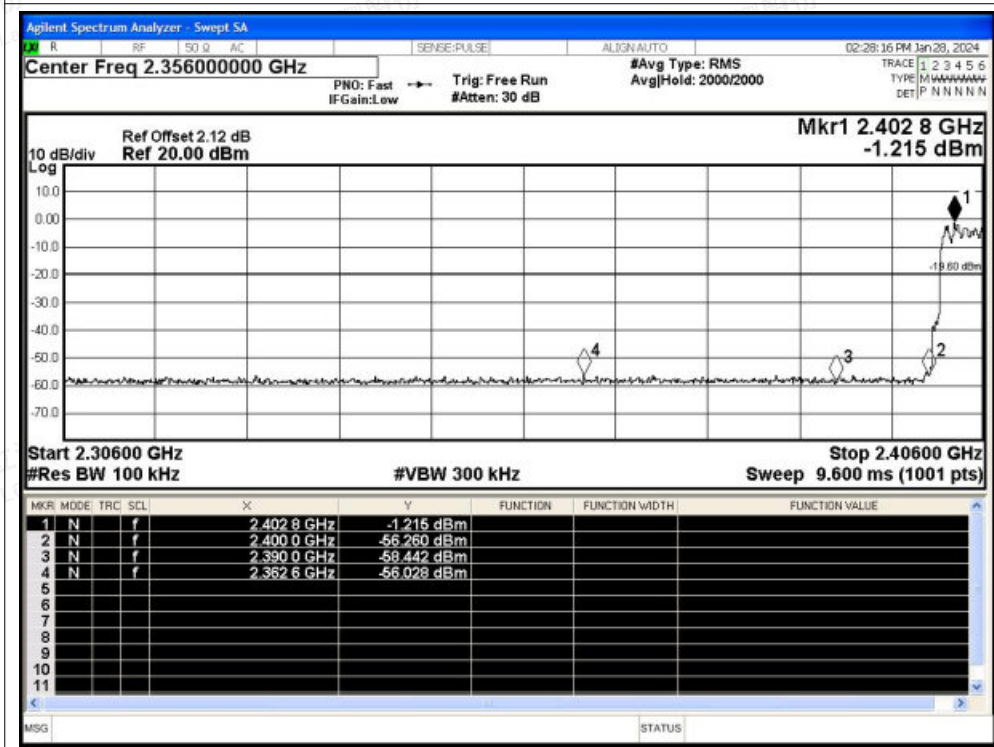




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

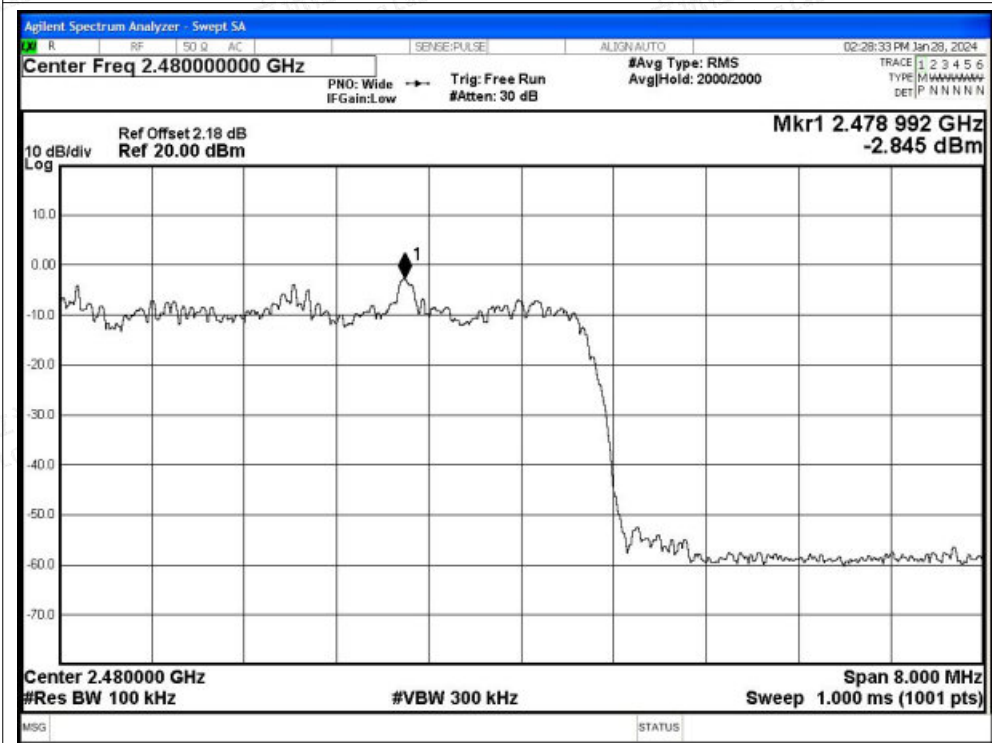


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

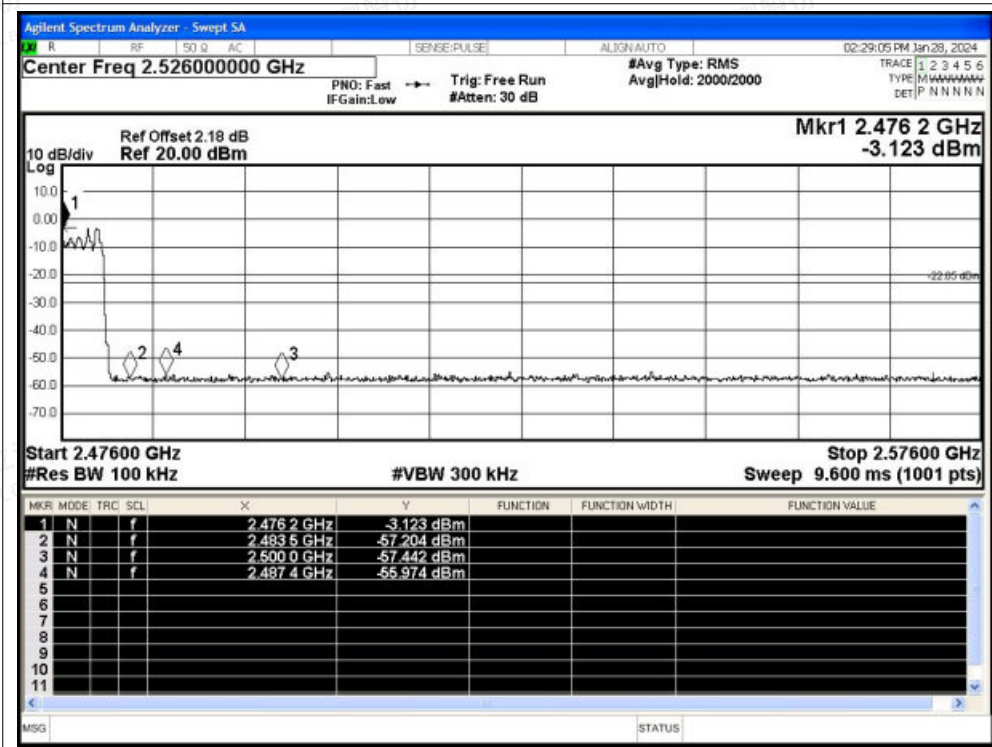




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-55.78	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.62	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.69	-20	Pass
NVNT	2-DH5	2402	Ant1	-56.25	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.9	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.77	-20	Pass

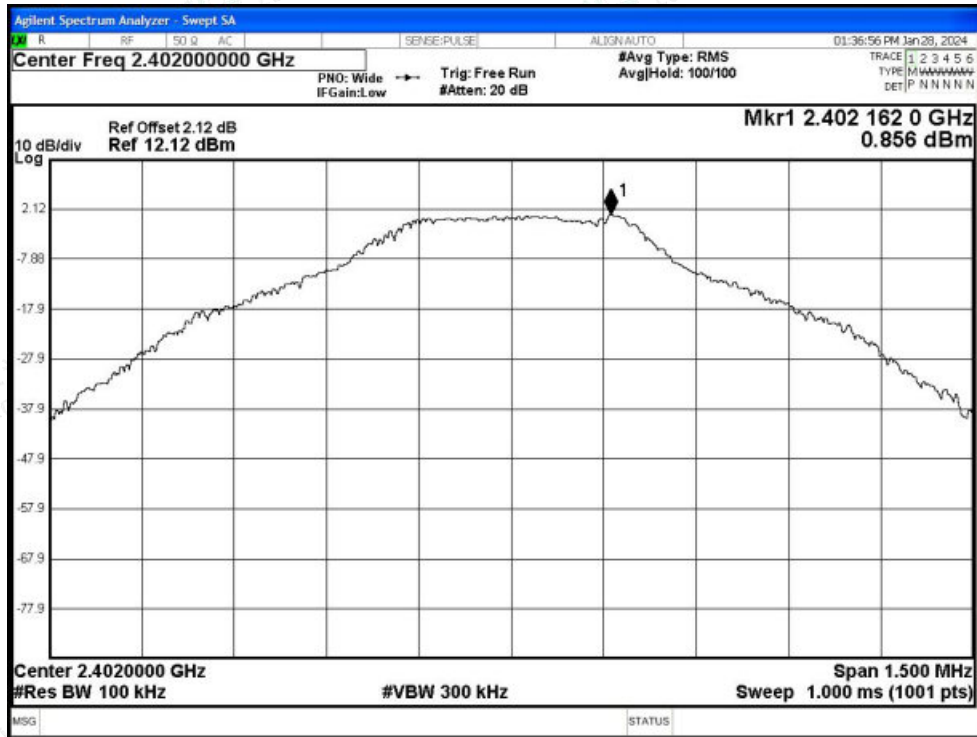


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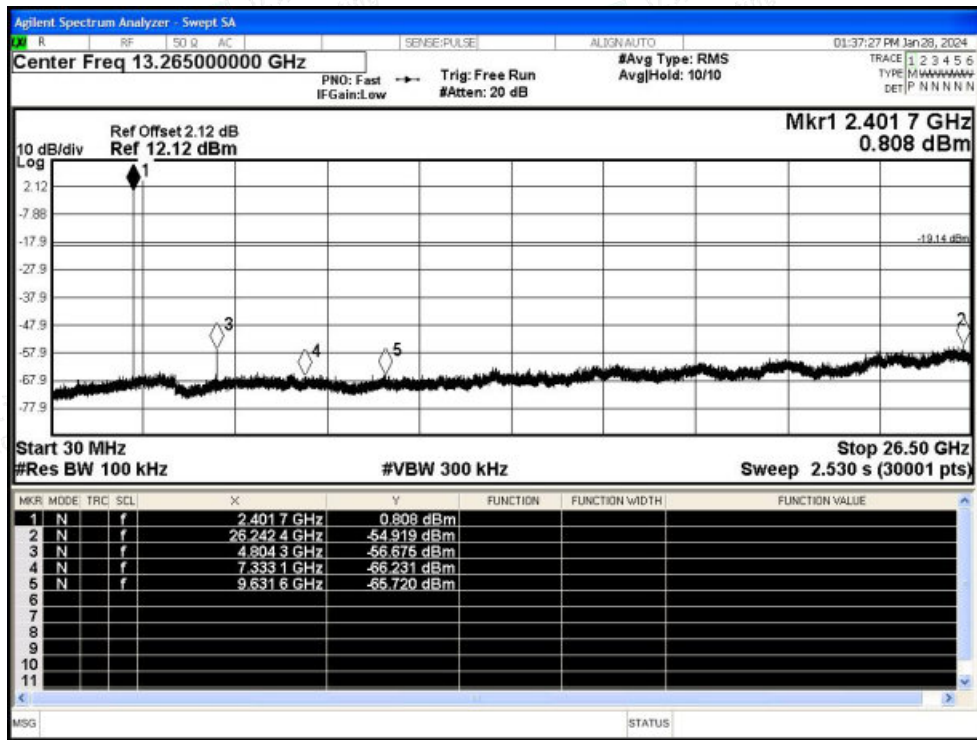


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

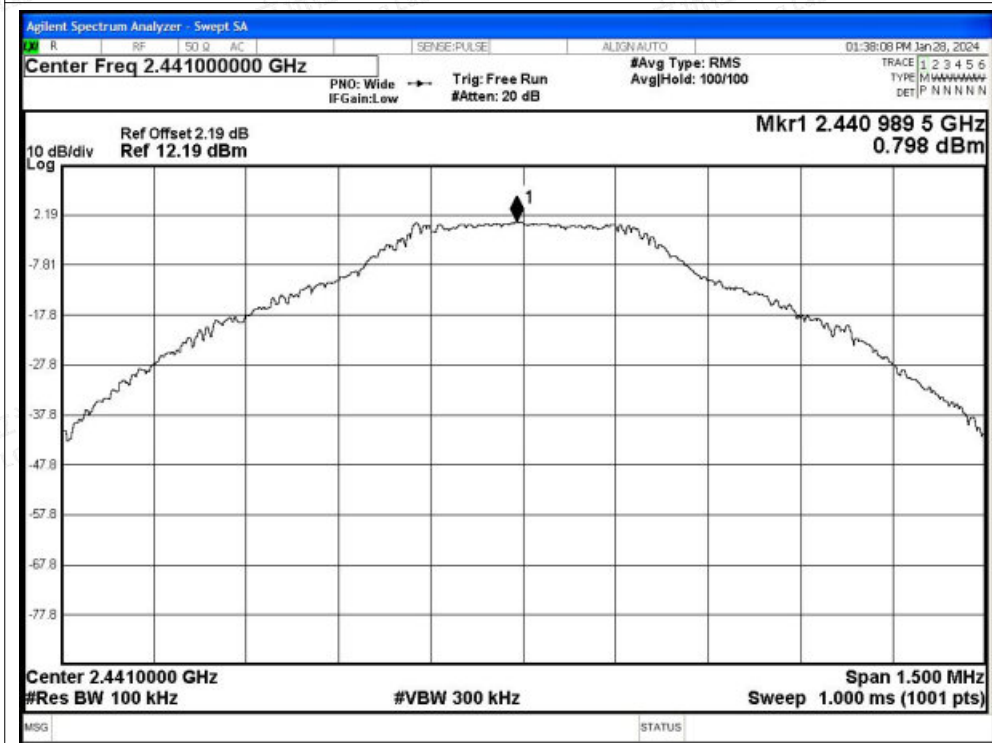


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

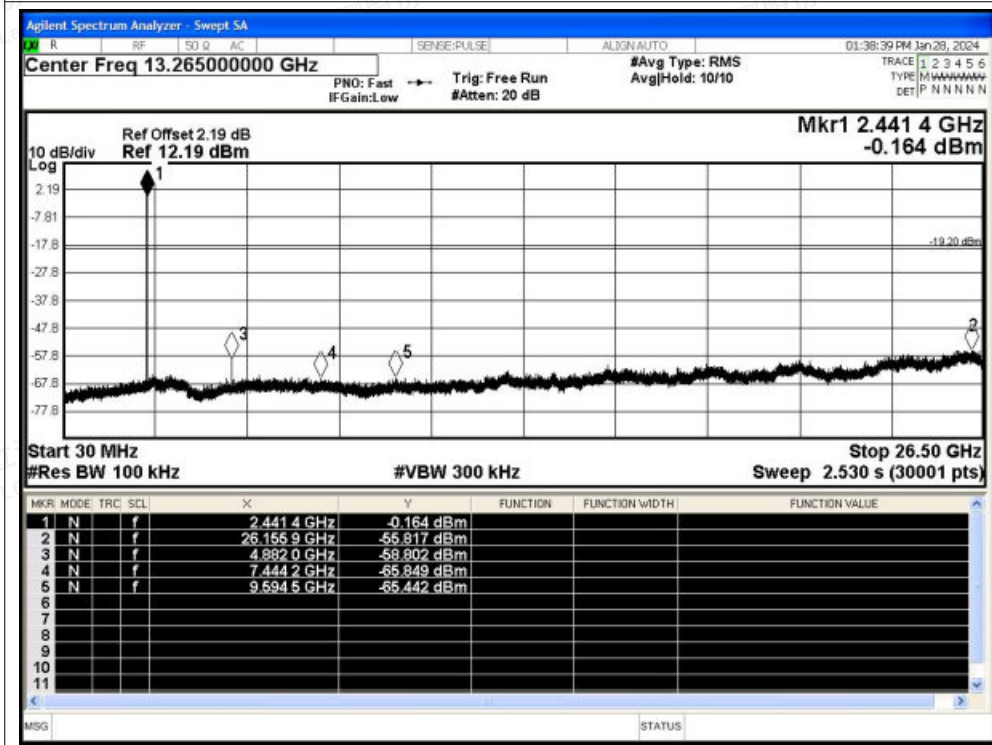




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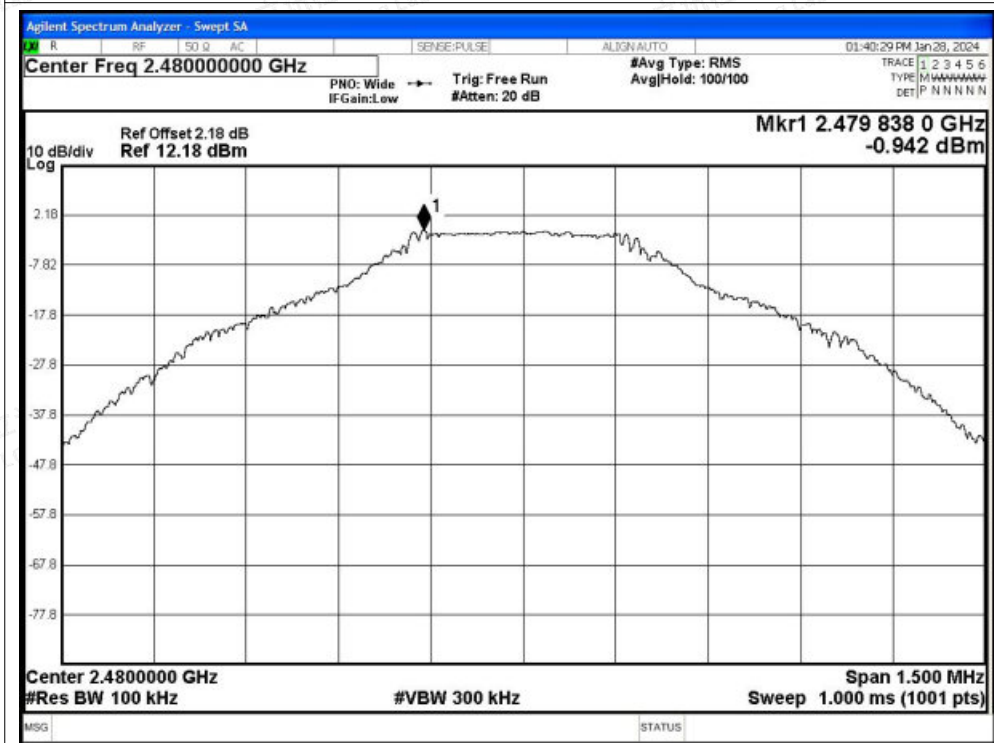


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

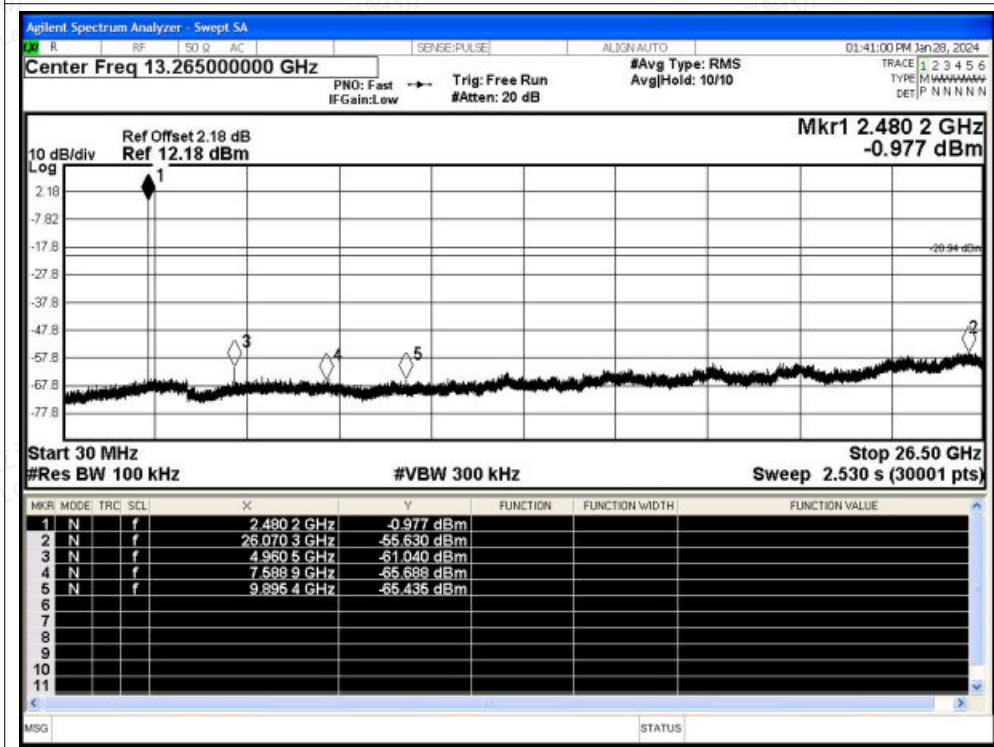




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

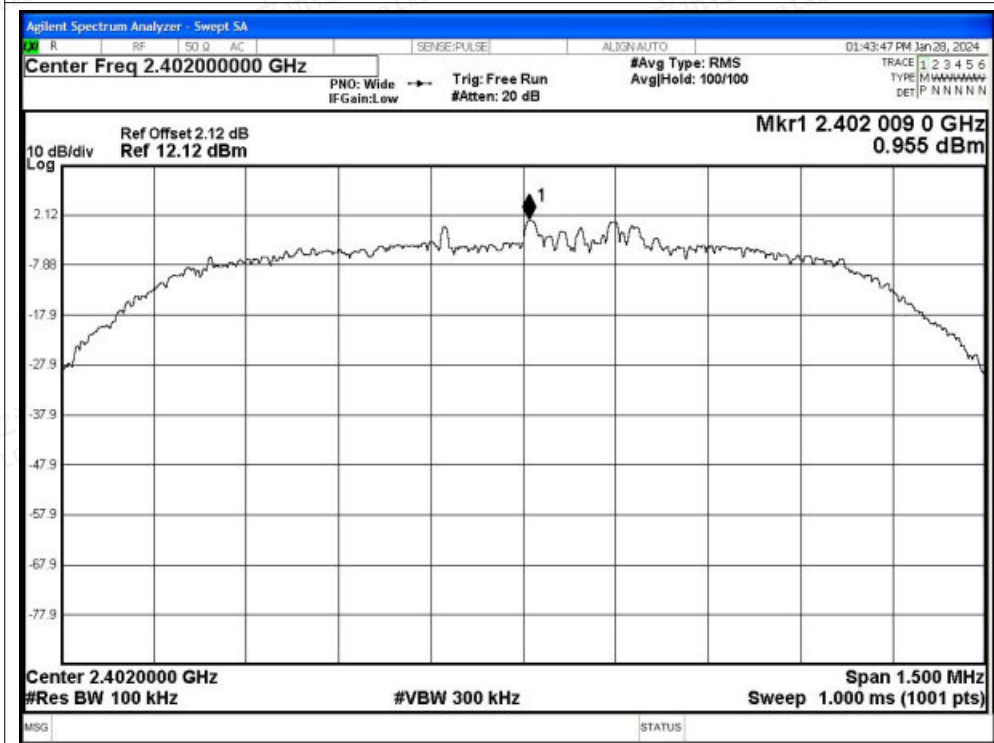


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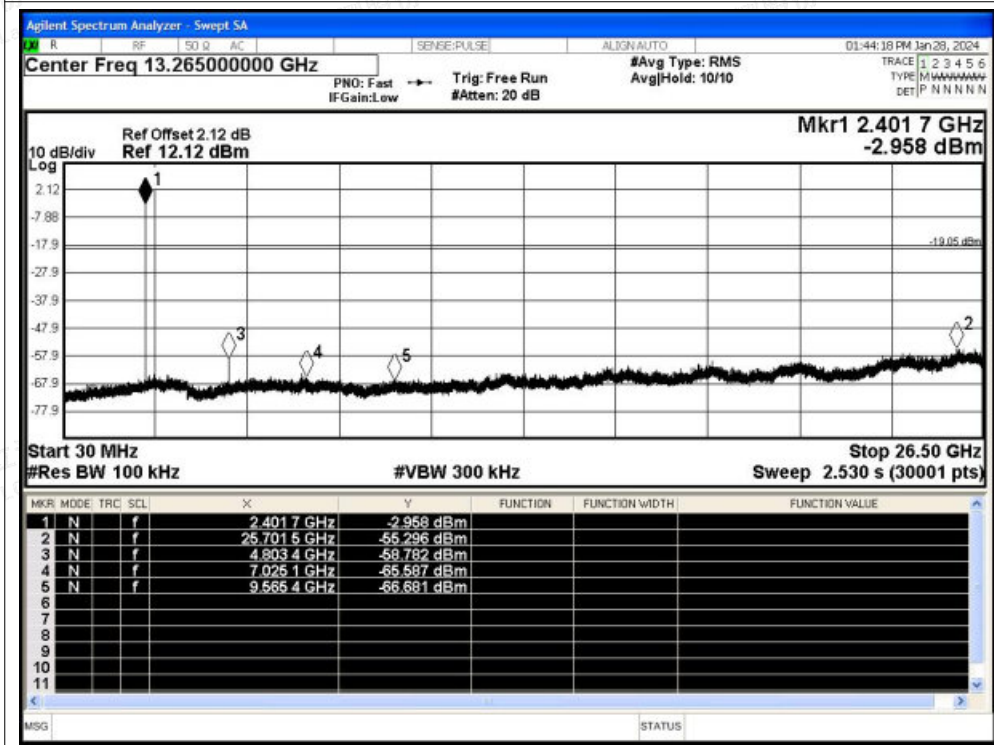




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

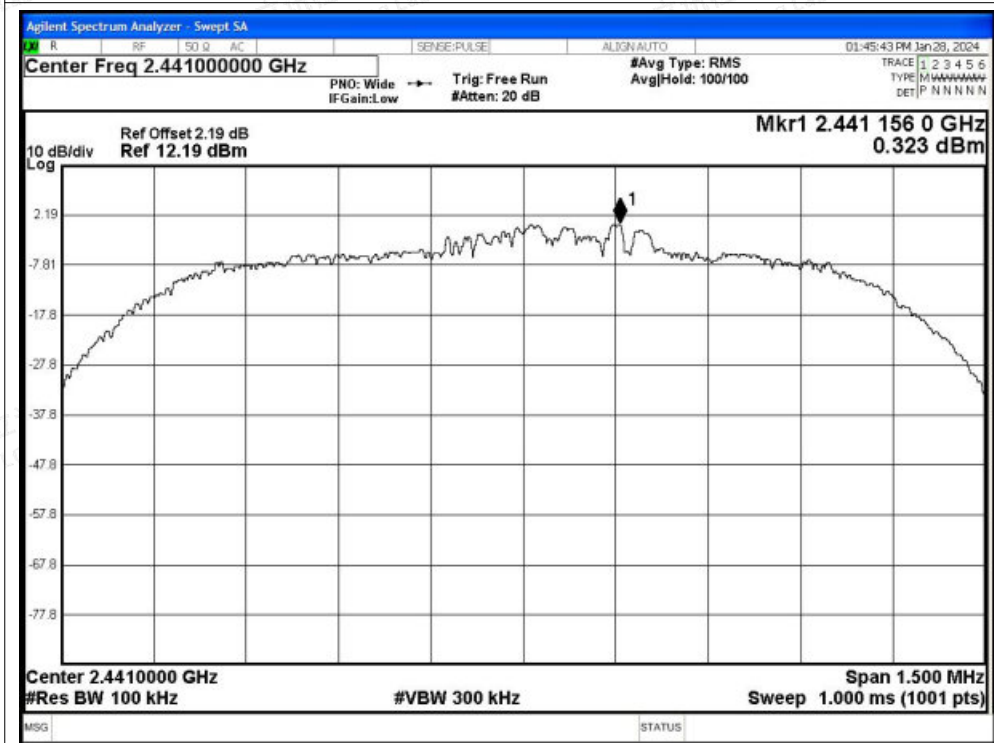


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

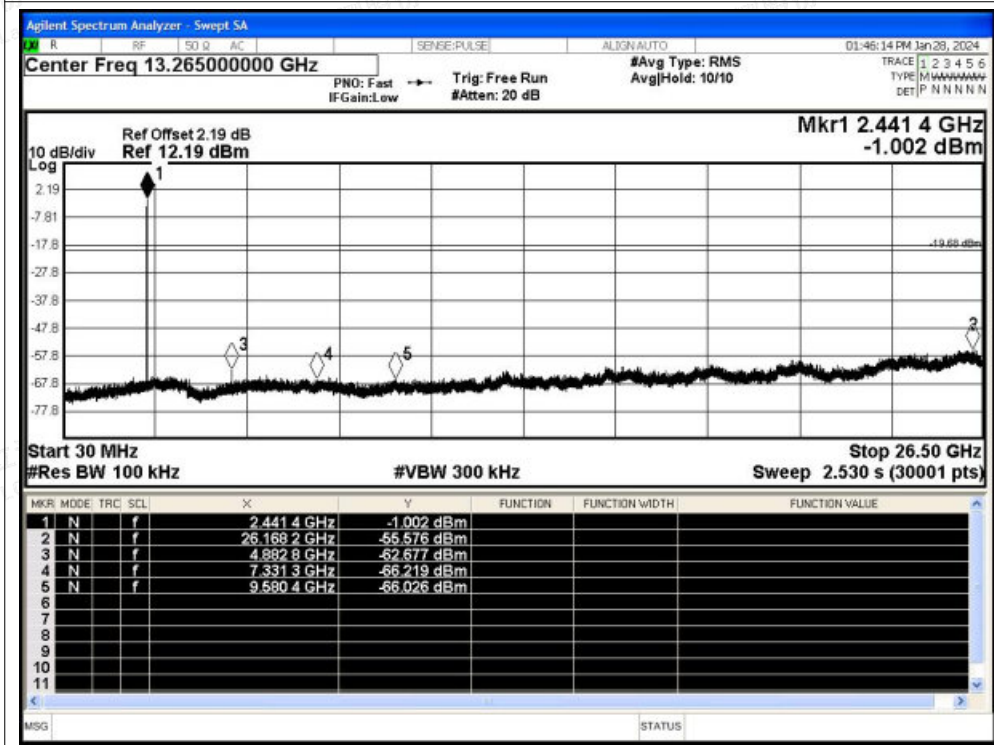




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

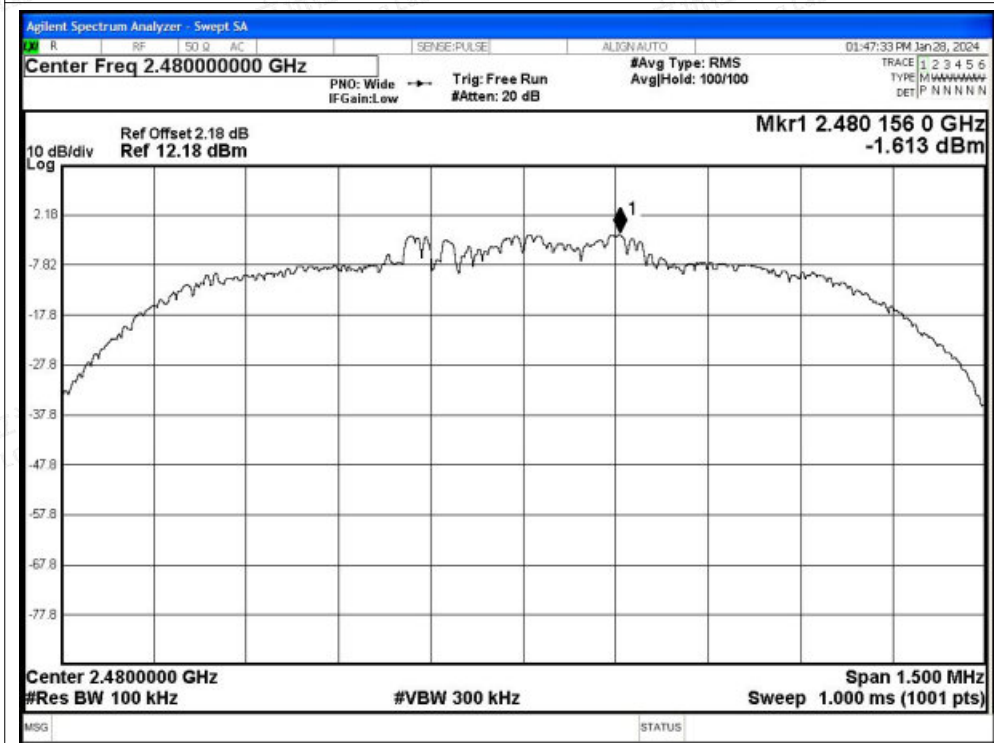


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

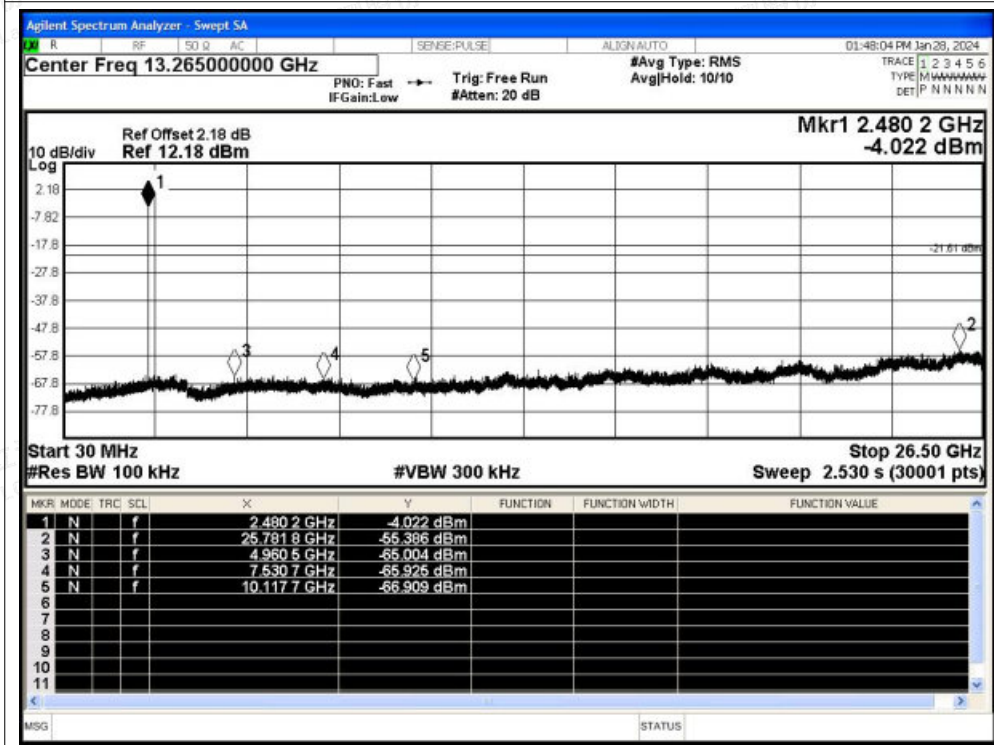




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



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	76.91	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.91	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.91	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35

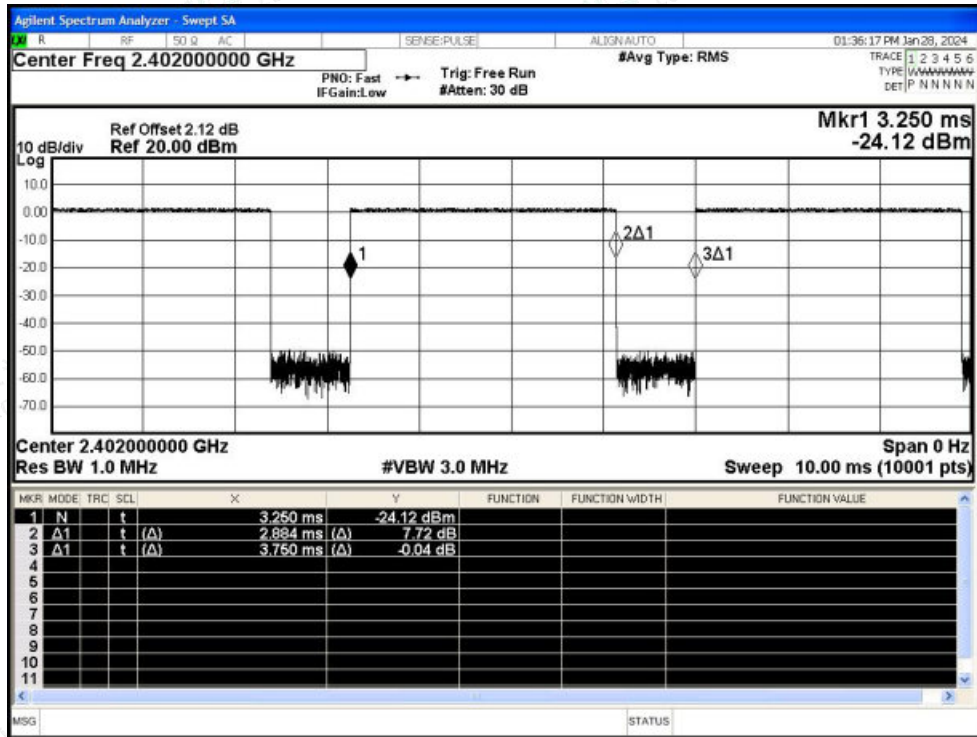


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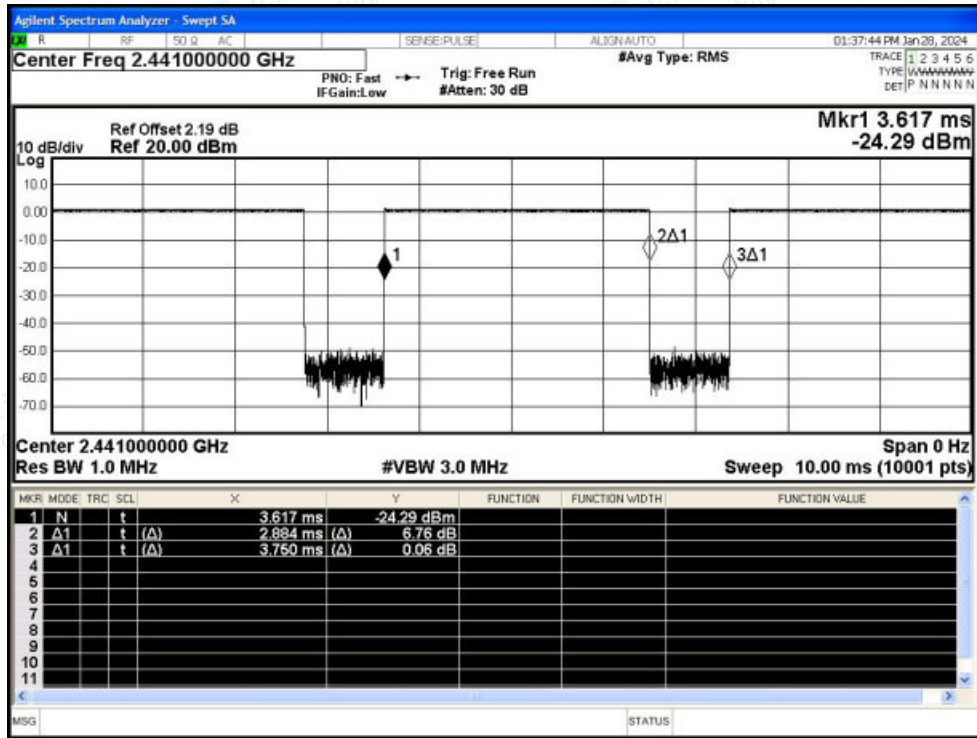


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

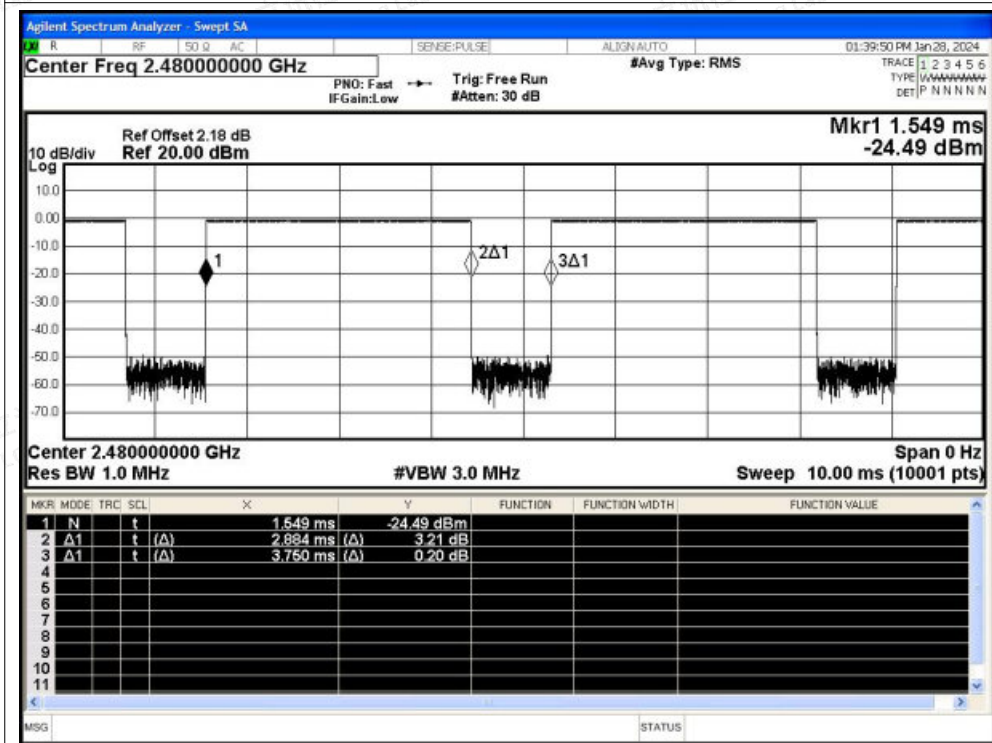


Duty Cycle NVNT 1-DH5 2441MHz Ant1

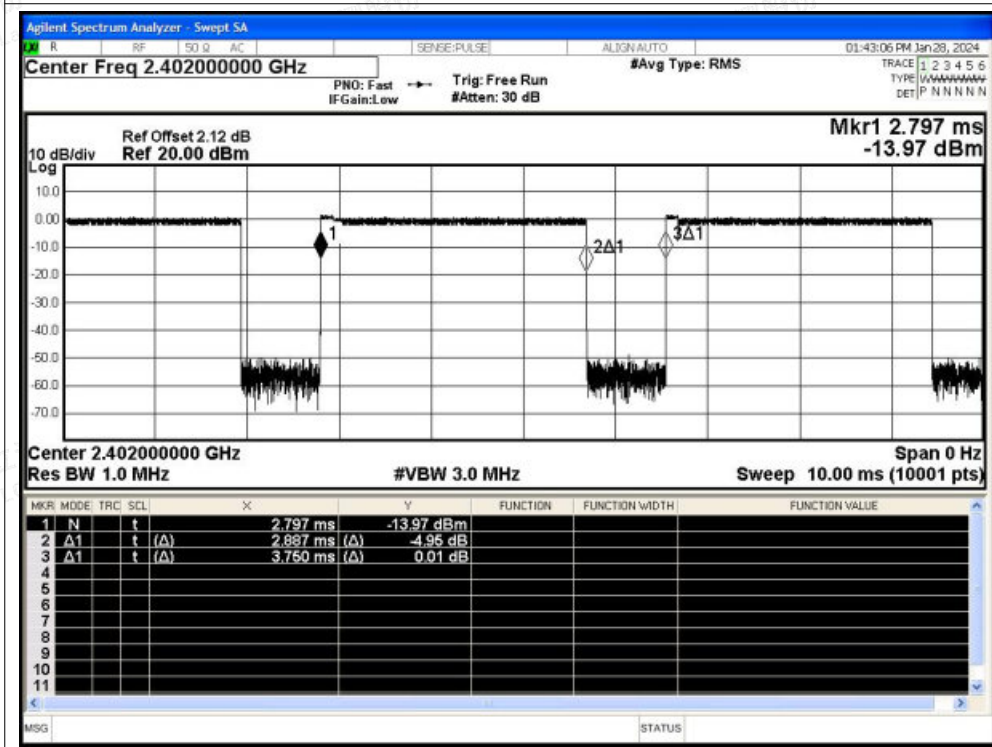




Duty Cycle NVNT 1-DH5 2480MHz Ant1

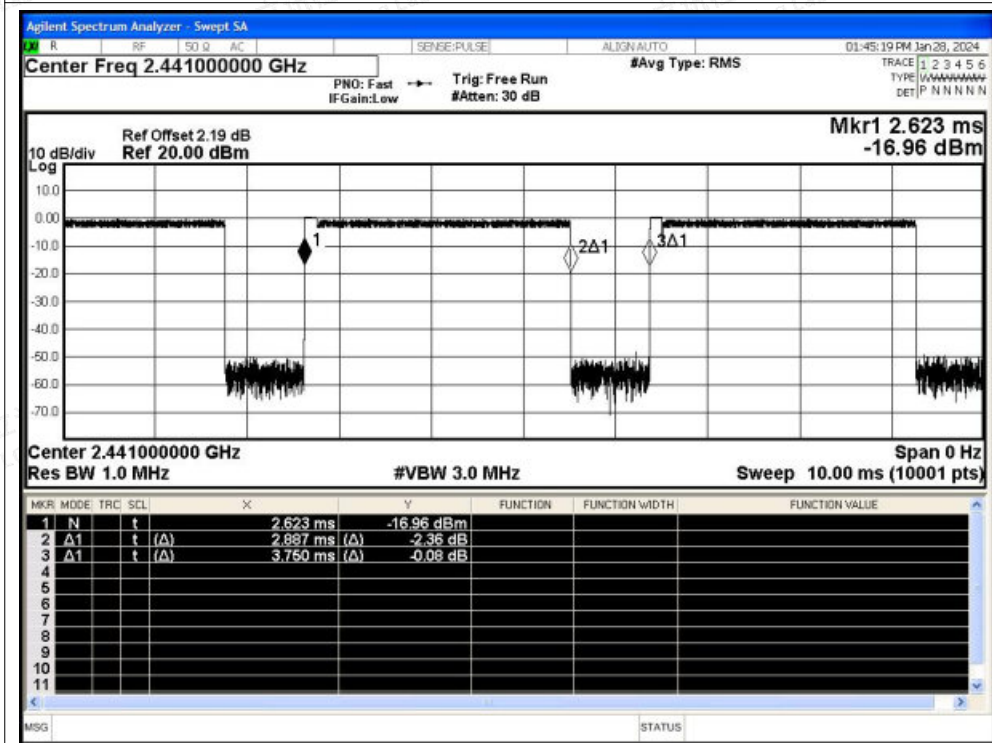


Duty Cycle NVNT 2-DH5 2402MHz Ant1

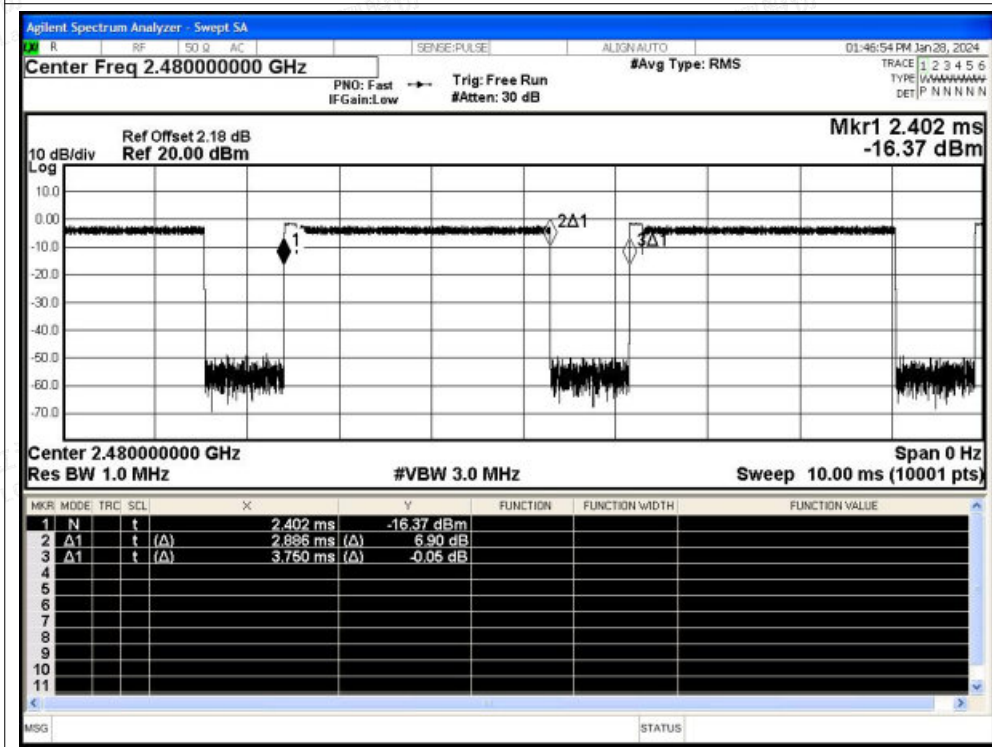




Duty Cycle NVNT 2-DH5 2441MHz Ant1



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	-50.65	2.7	-	47.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.93	2.7	1.14	41.17	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2329.584	-47.69	2.7	-	50.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.208	-57.7	2.7	1.14	41.40	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.37	2.7	-	48.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.57	2.7	1.14	40.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.67	2.7	-	48.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.08	2.7	1.14	41.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.808	-46.9	2.7	-	51.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.896	-57.17	2.7	1.14	41.93	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.26	2.7	-	49.70	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.54	2.7	1.14	41.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.73	2.7	-	47.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.69	2.7	1.14	40.41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2360.784	-47.75	2.7	-	50.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.376	-57.65	2.7	1.14	41.45	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.75	2.7	-	47.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.23	2.7	1.14	40.87	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.67	2.7	-	46.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.64	2.7	1.14	41.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.048	-47.36	2.7	-	50.60	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2497.768	-57.09	2.7	1.14	42.01	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.69	2.7	-	46.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.8	2.7	1.14	41.30	Average	54	Pass

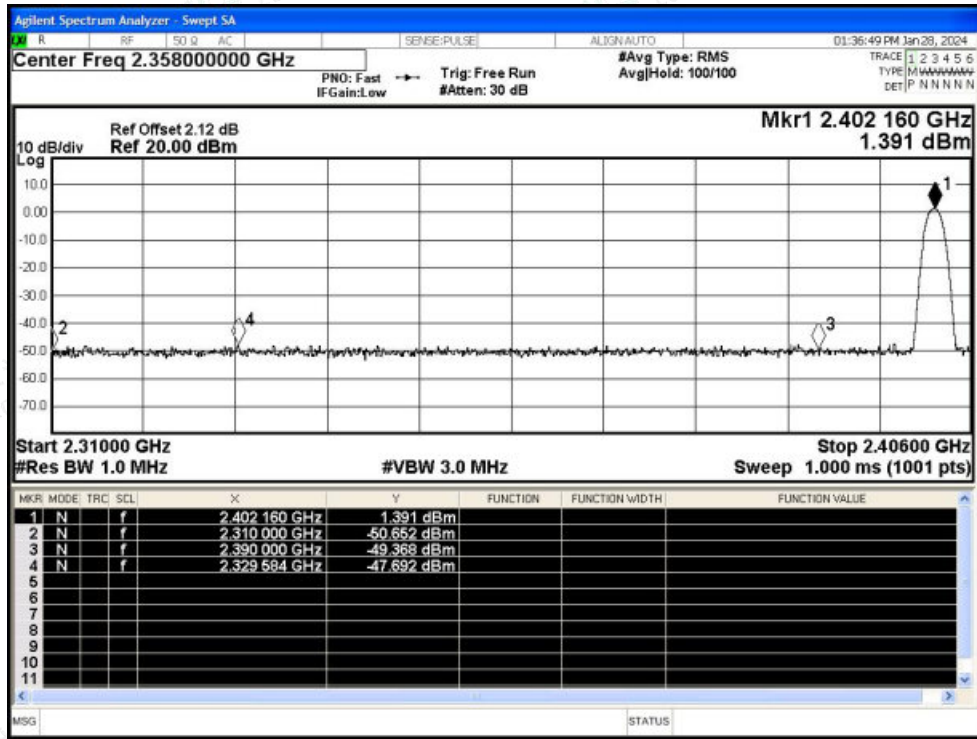


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 Scan code to check authenticity

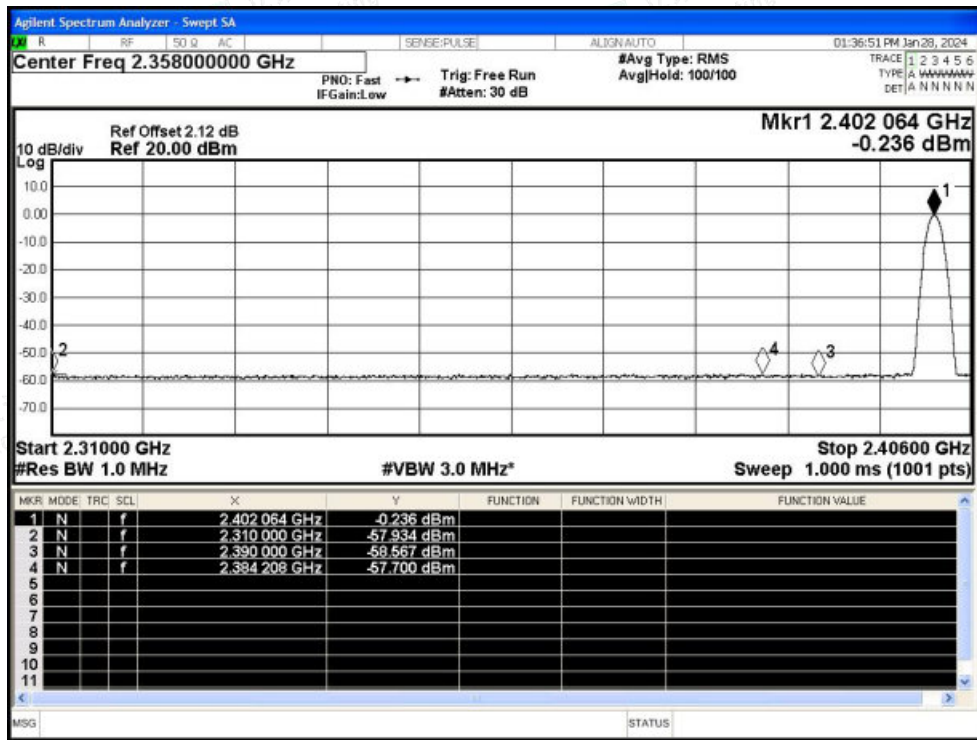


Test Graphs

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

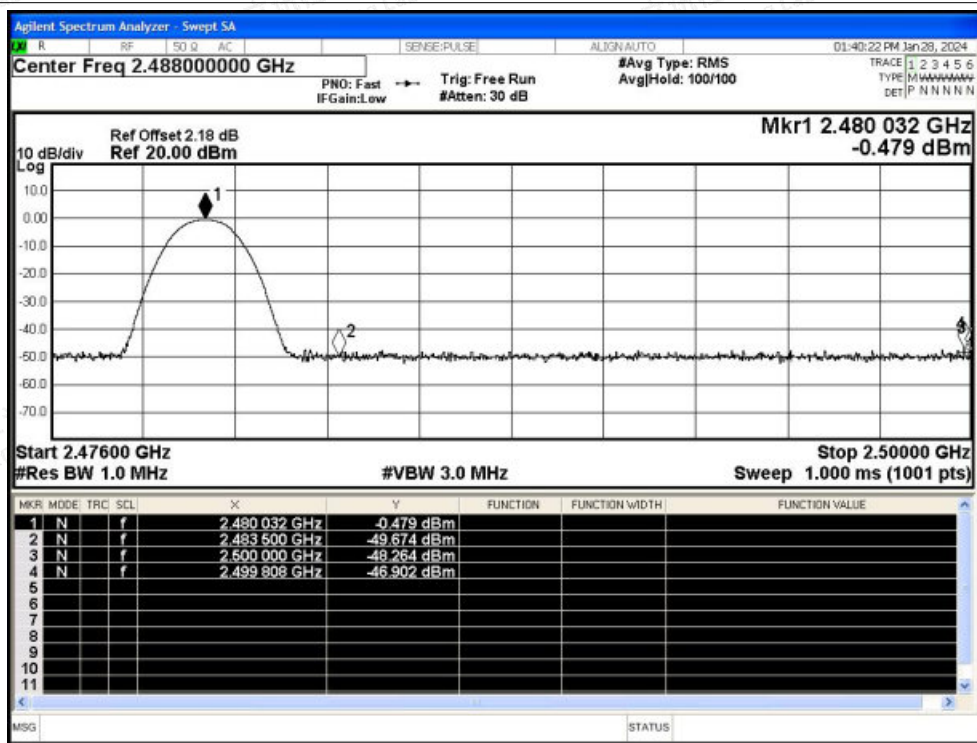


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

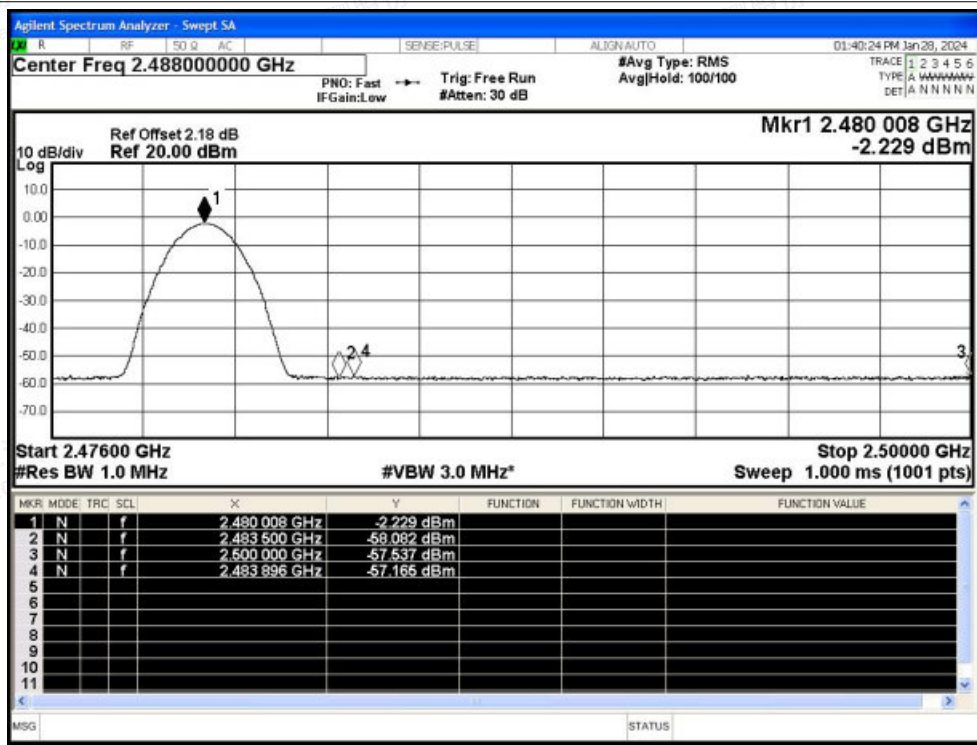




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

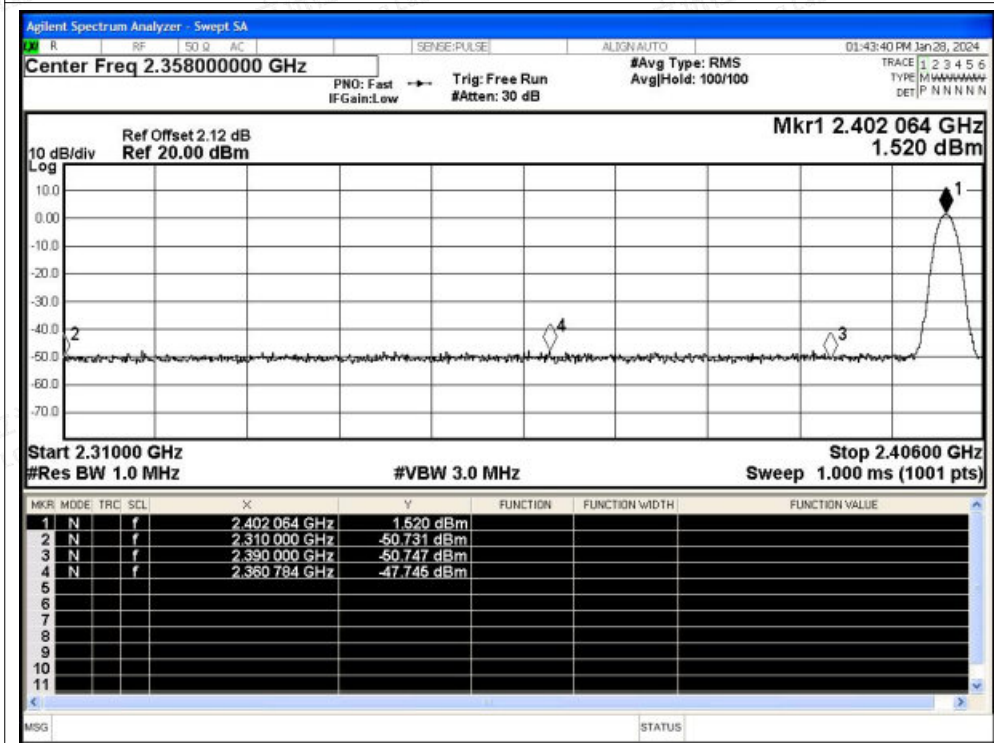


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

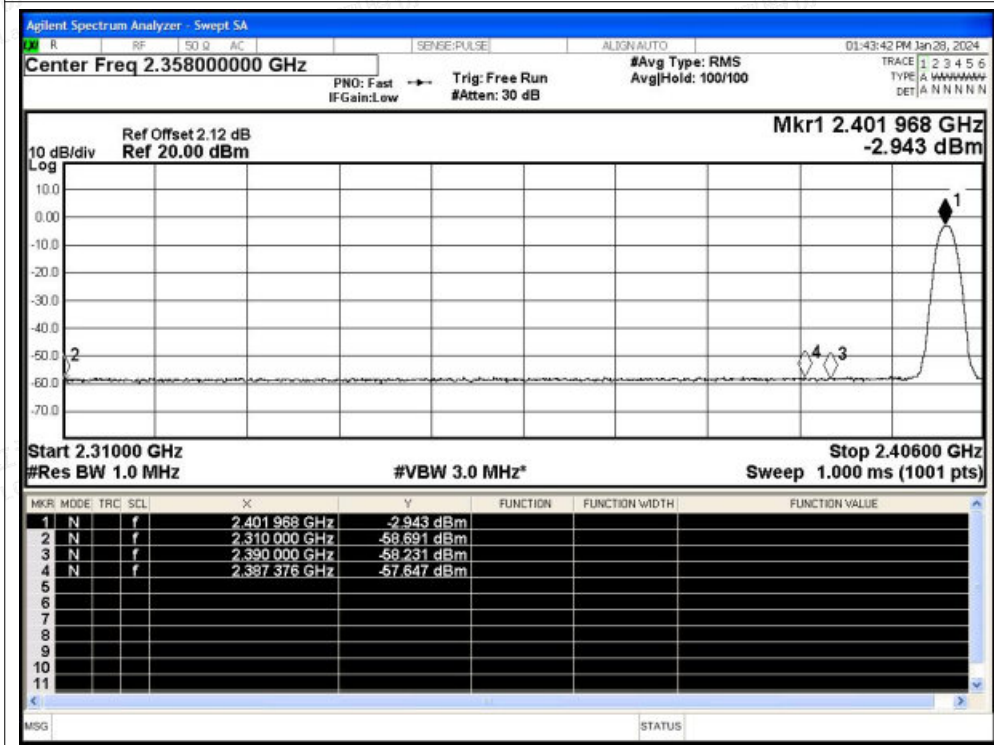




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

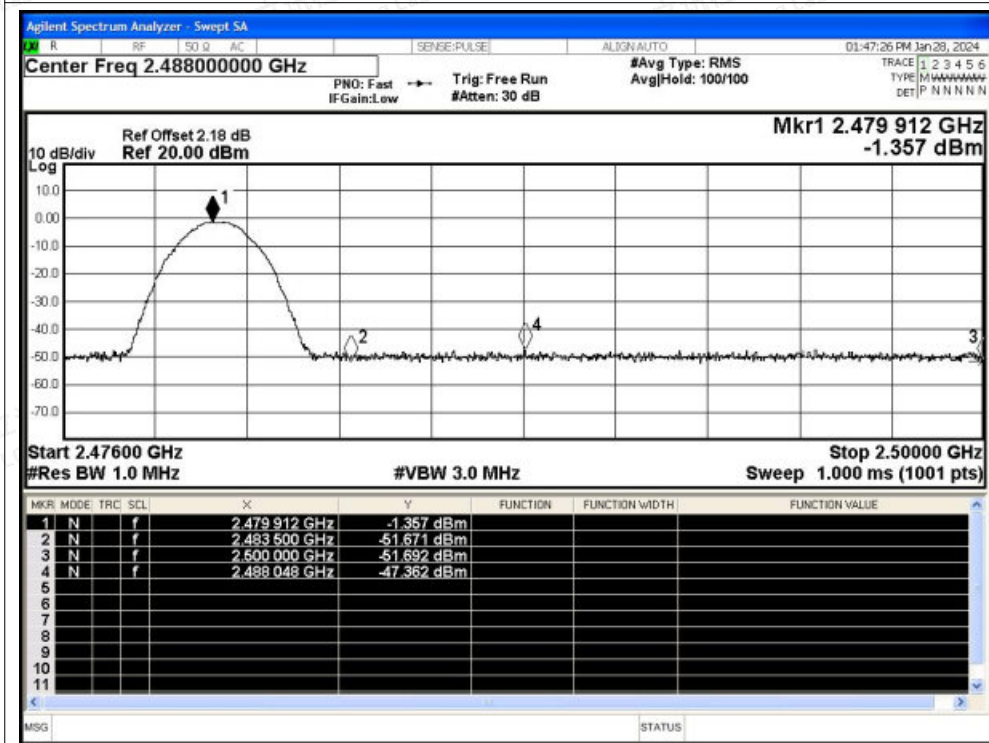


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

