



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Laptop

Test Model: Zedon X-Pro

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	Ant0	0.985	N/A	Pass
NVNT	1-DH5	2441	Ant0	1.024	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.975	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.311	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.283	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.286	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.295	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.295	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

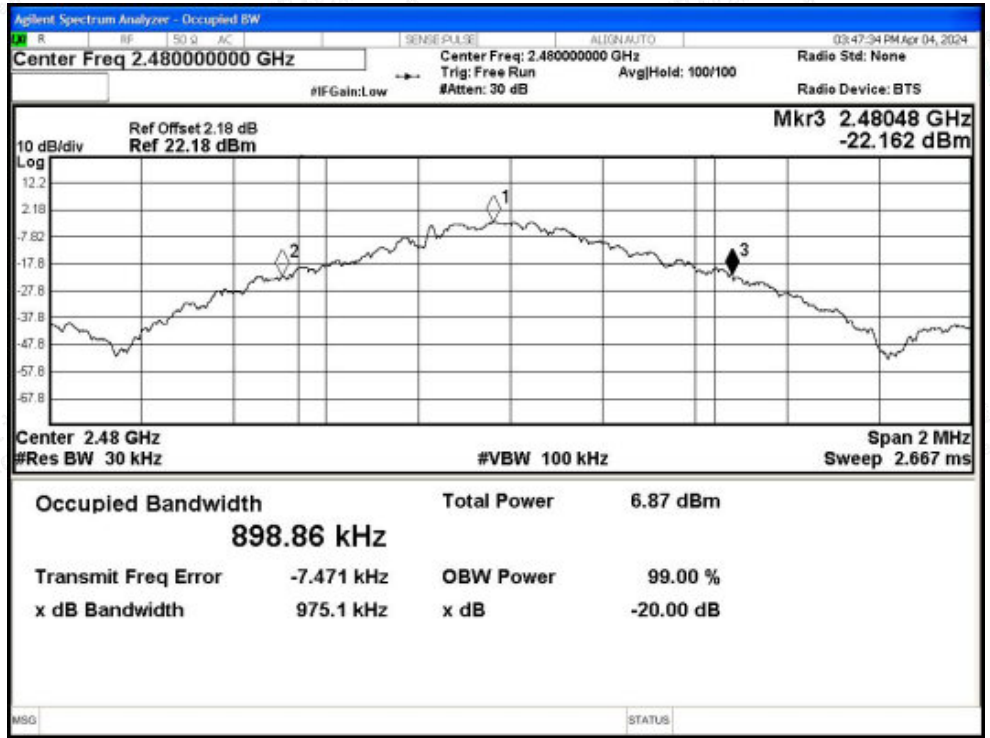


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

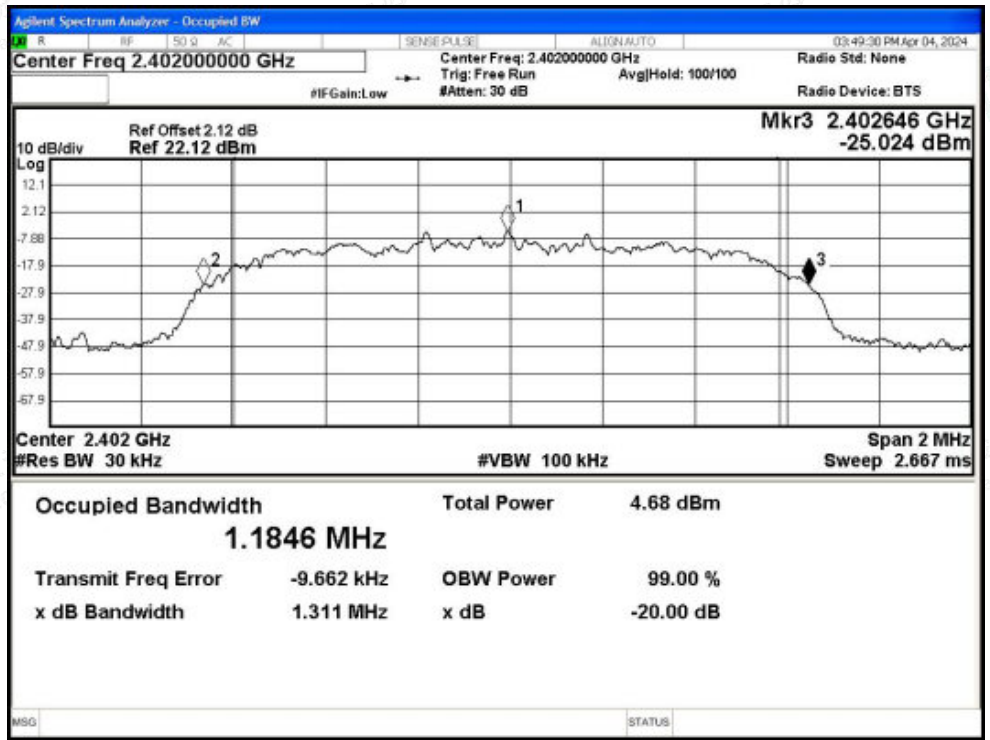




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

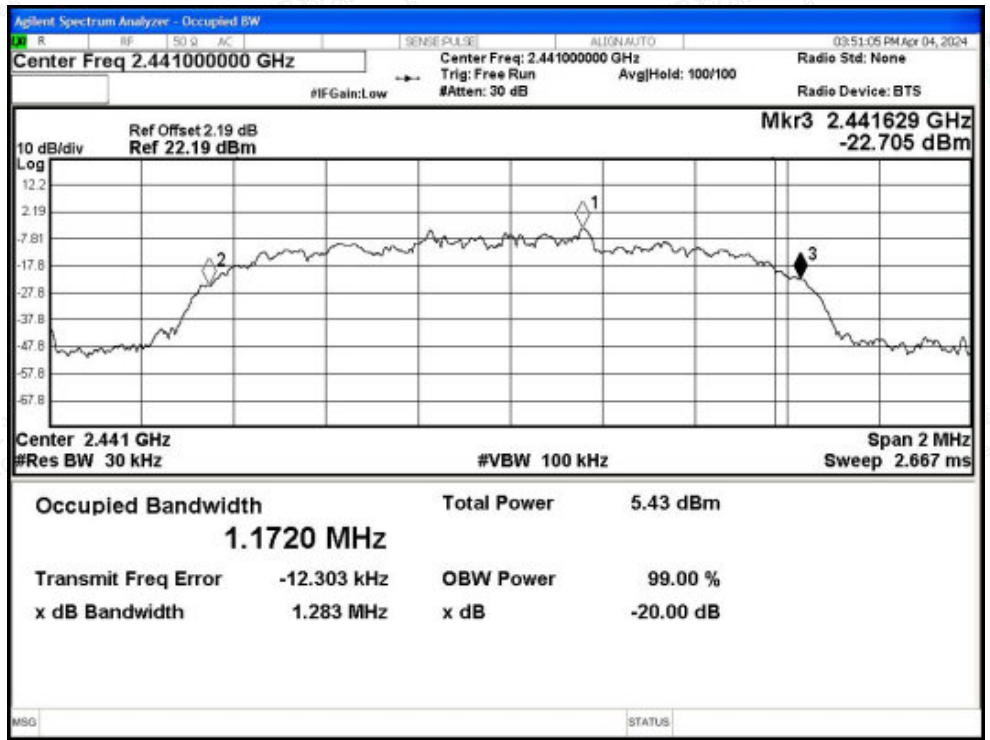


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

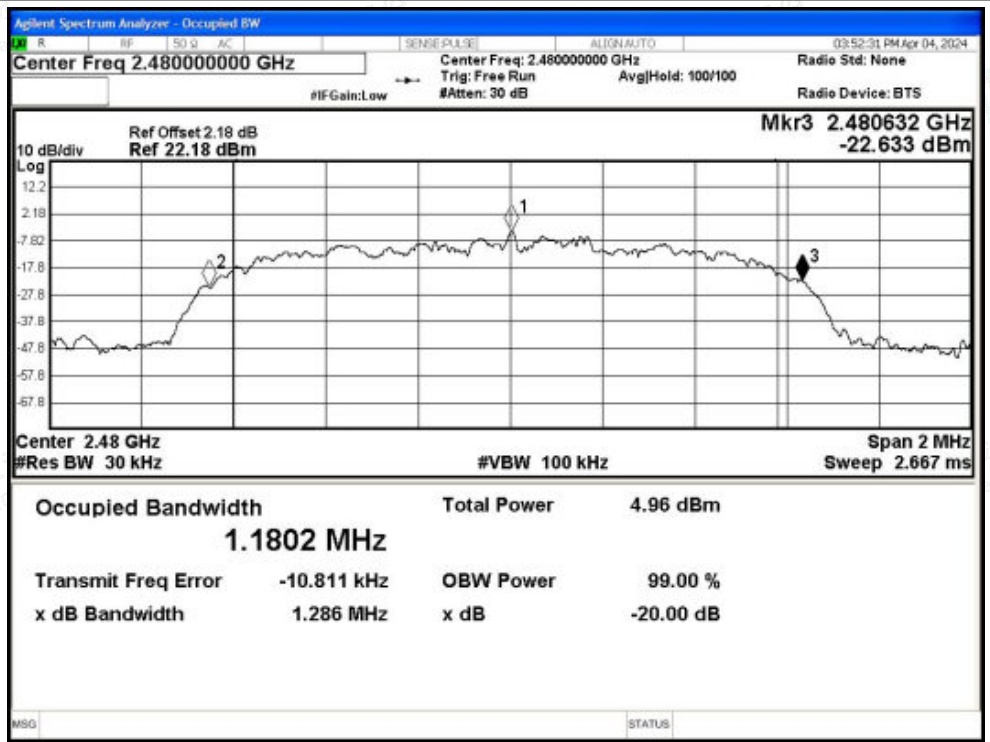




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

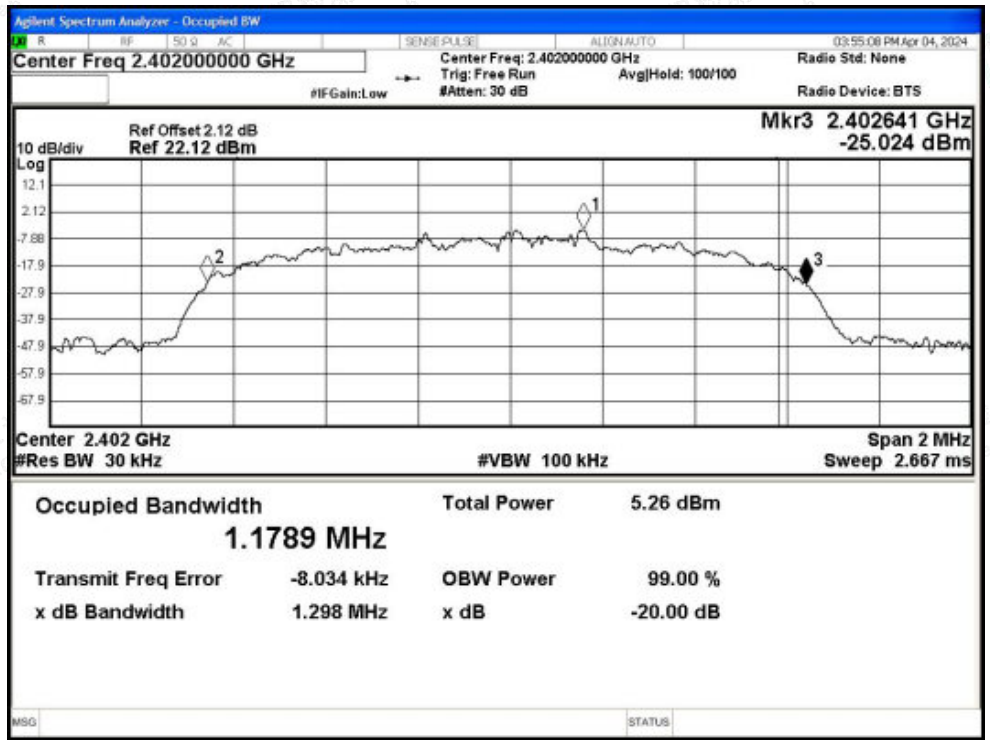


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

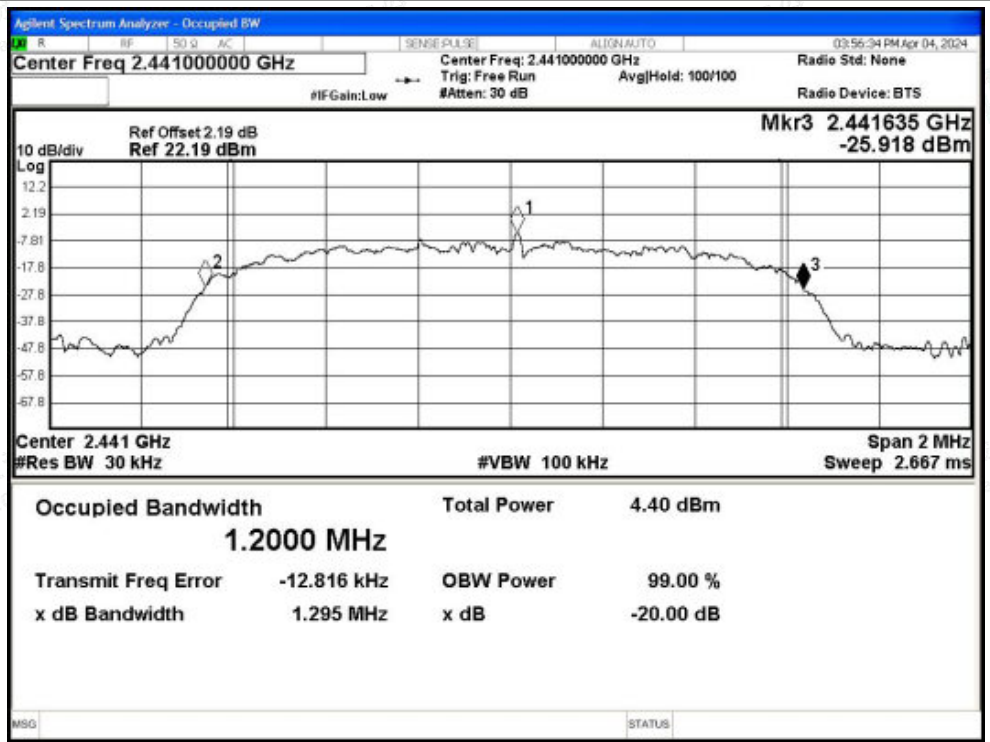




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0

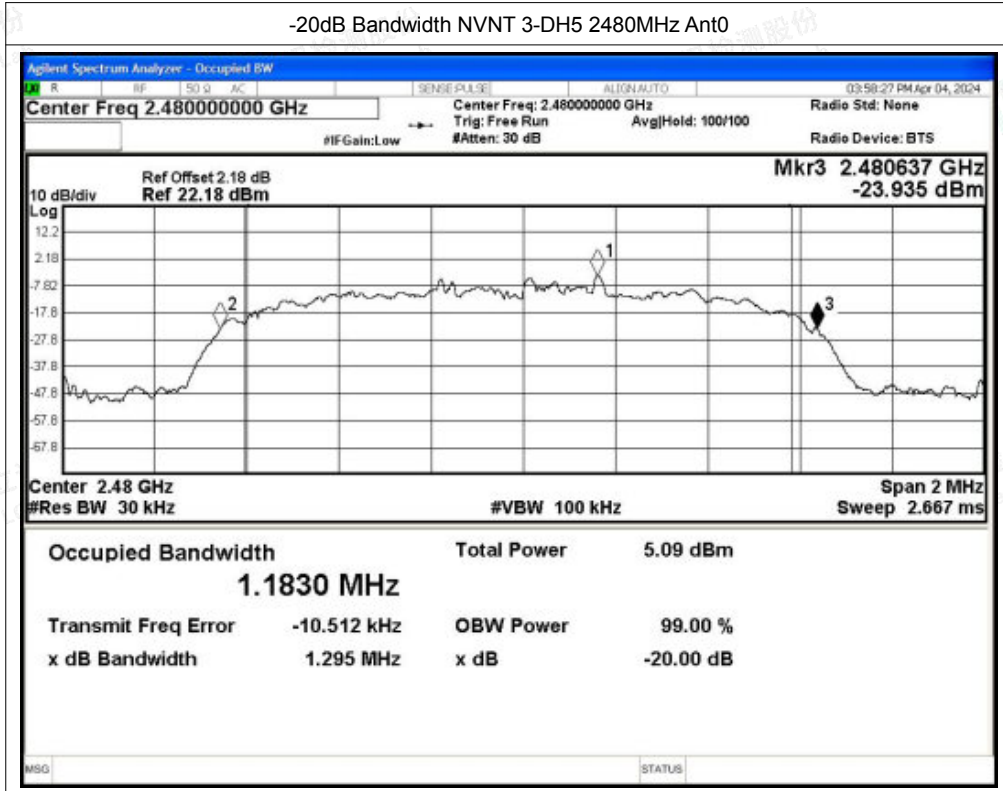


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant0





A.2 Maximum Conducted Output Power

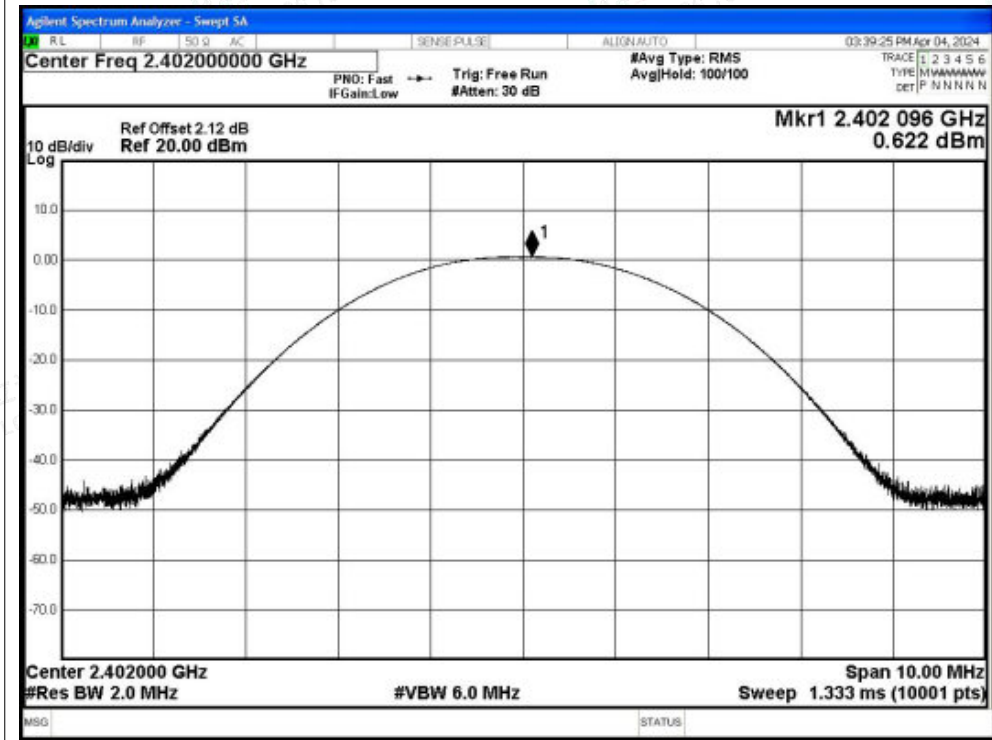
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	0.62	21	Pass
NVNT	1-DH5	2441	Ant0	0.72	21	Pass
NVNT	1-DH5	2480	Ant0	0.65	21	Pass
NVNT	2-DH5	2402	Ant0	0.42	21	Pass
NVNT	2-DH5	2441	Ant0	0.53	21	Pass
NVNT	2-DH5	2480	Ant0	0.49	21	Pass
NVNT	3-DH5	2402	Ant0	0.5	21	Pass
NVNT	3-DH5	2441	Ant0	0.58	21	Pass
NVNT	3-DH5	2480	Ant0	0.57	21	Pass



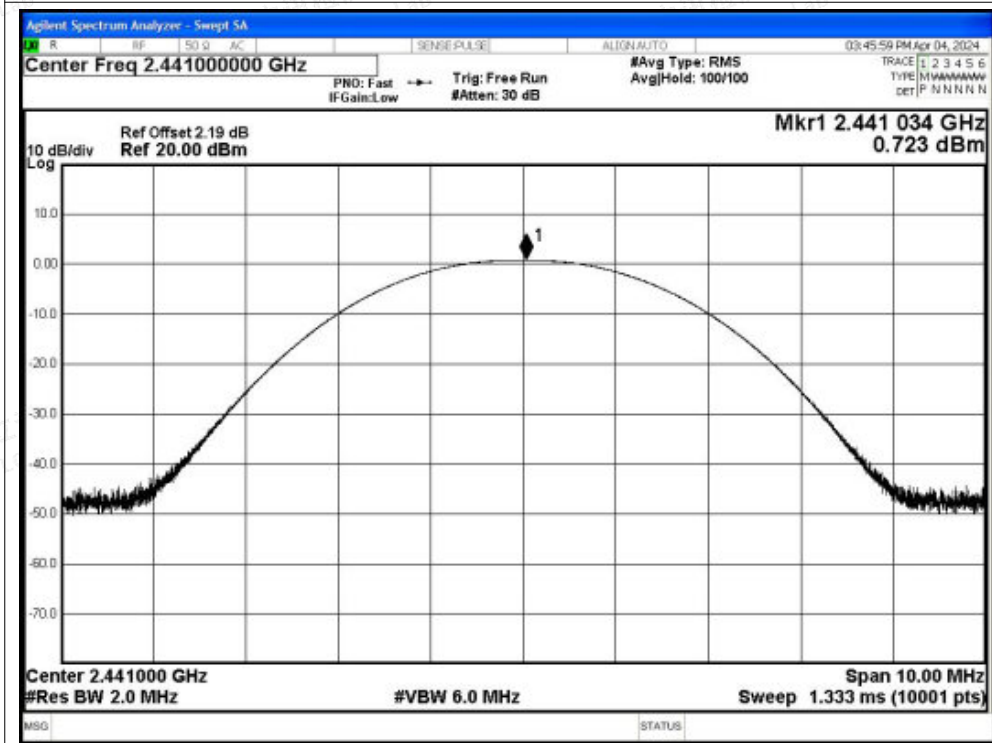


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

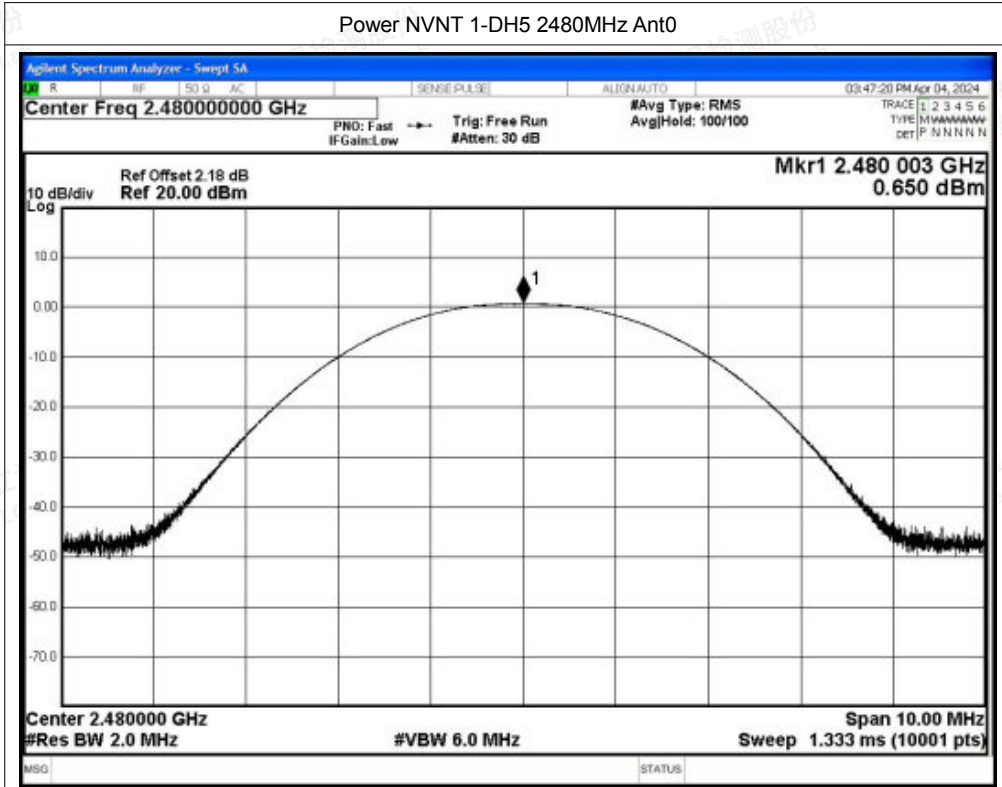


Power NVNT 1-DH5 2441MHz Ant0

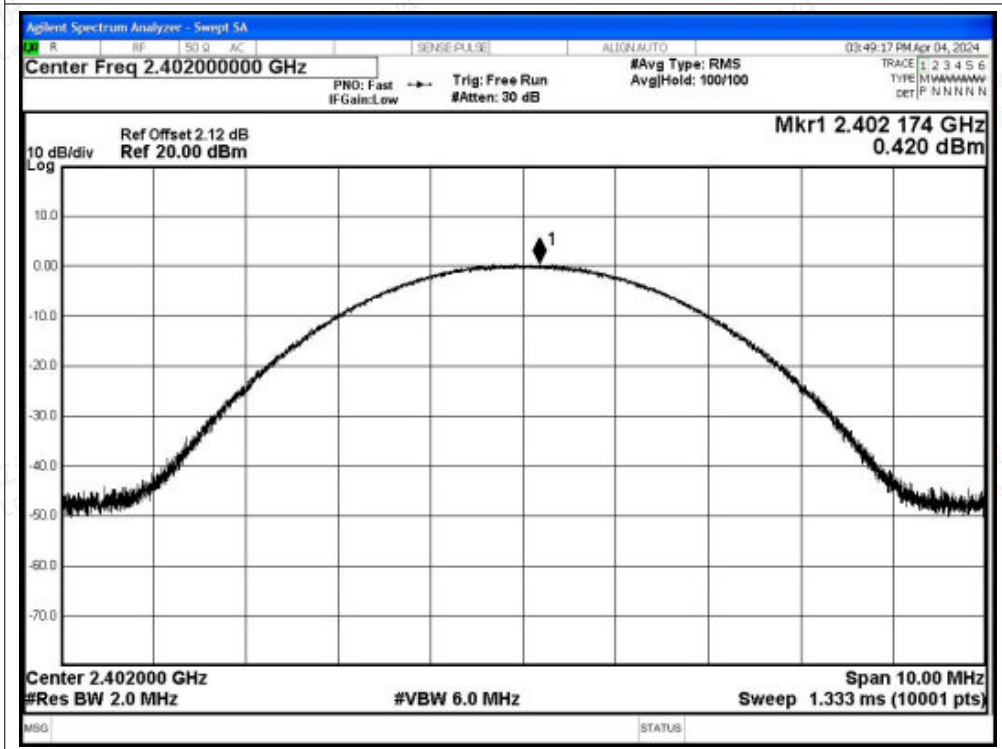




Power NVNT 1-DH5 2480MHz Ant0

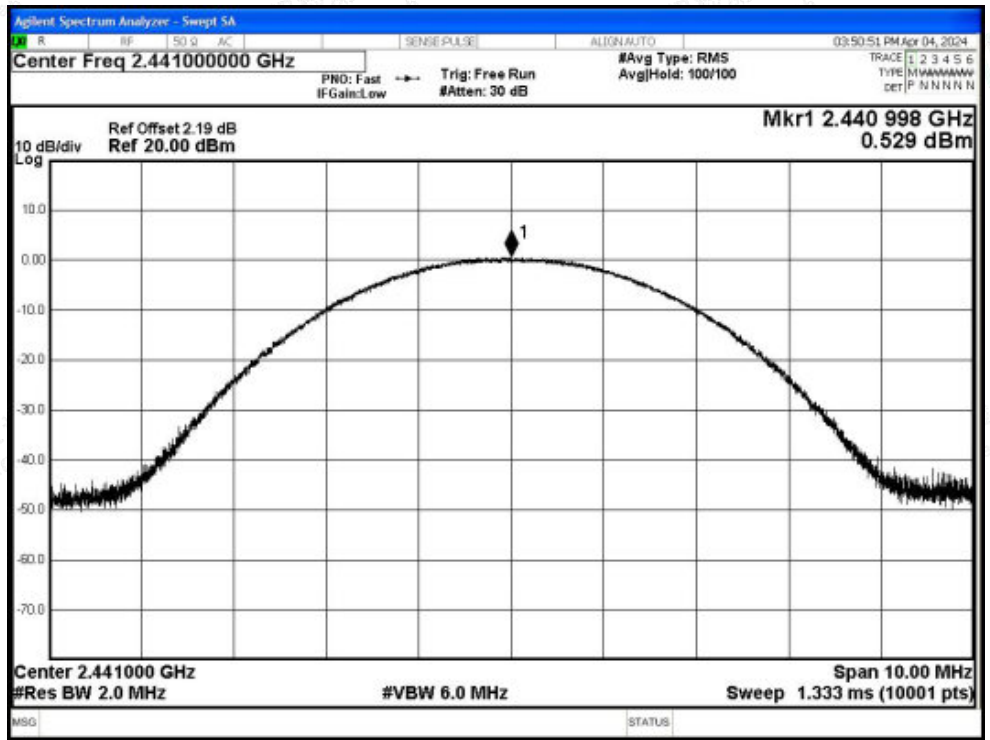


Power NVNT 2-DH5 2402MHz Ant0

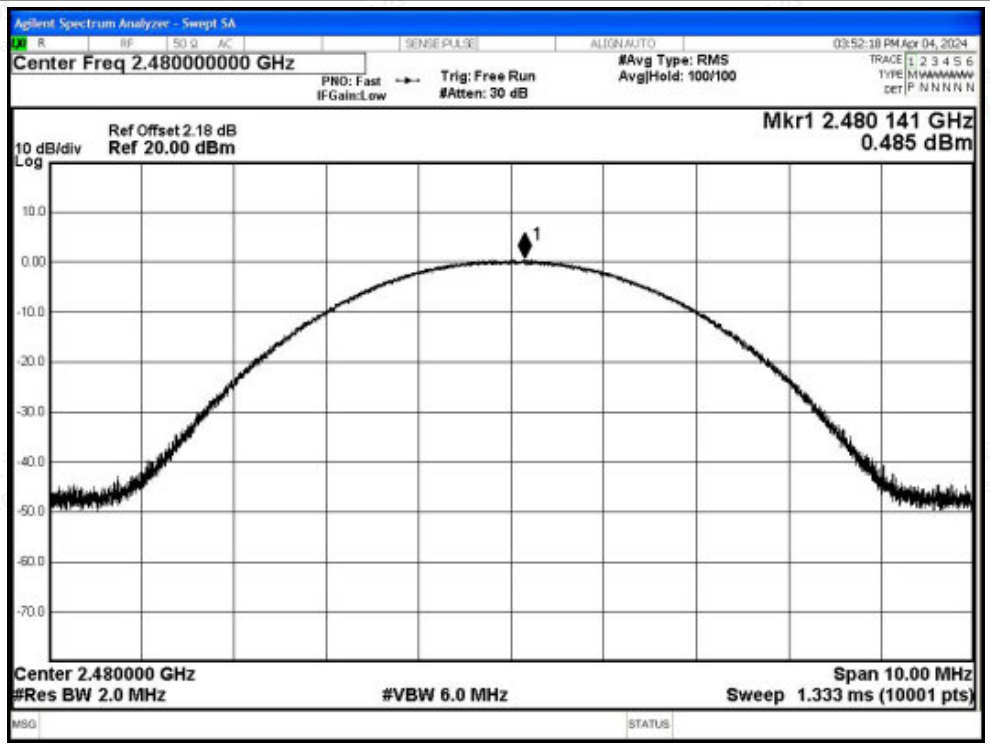


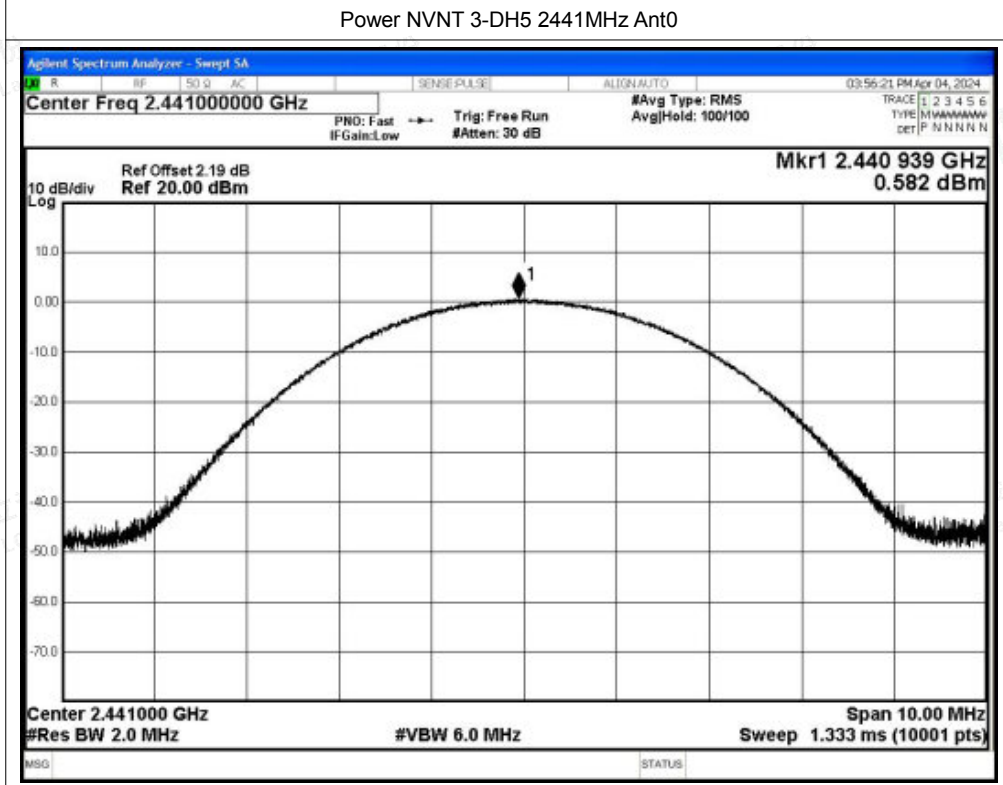
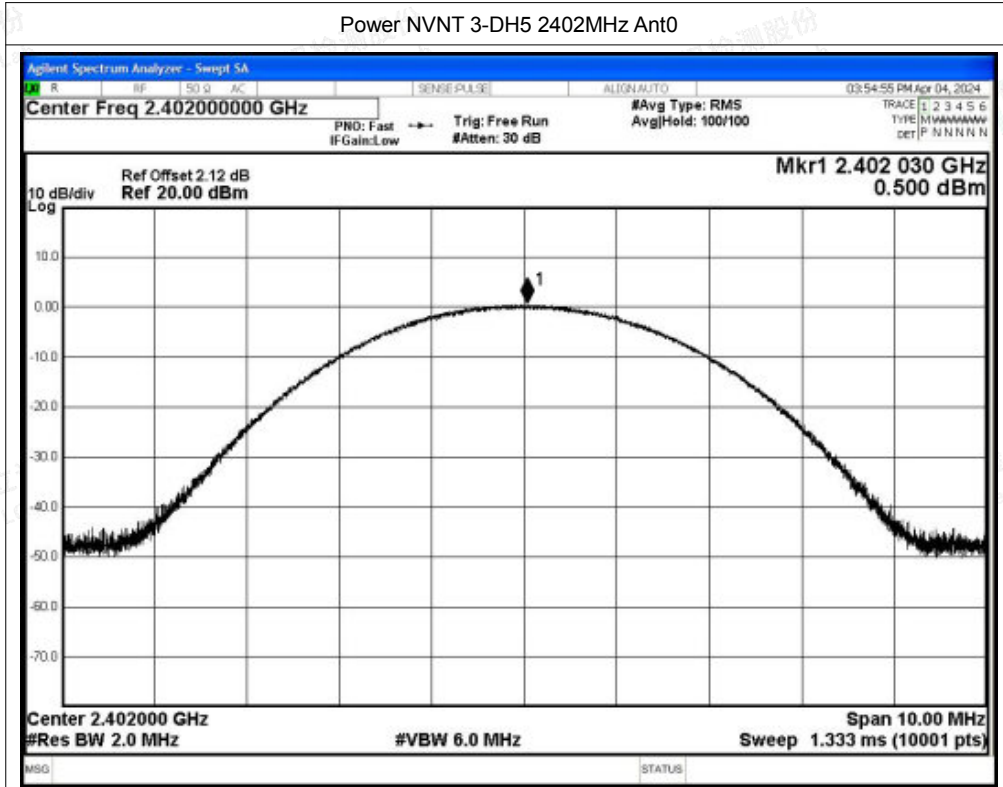


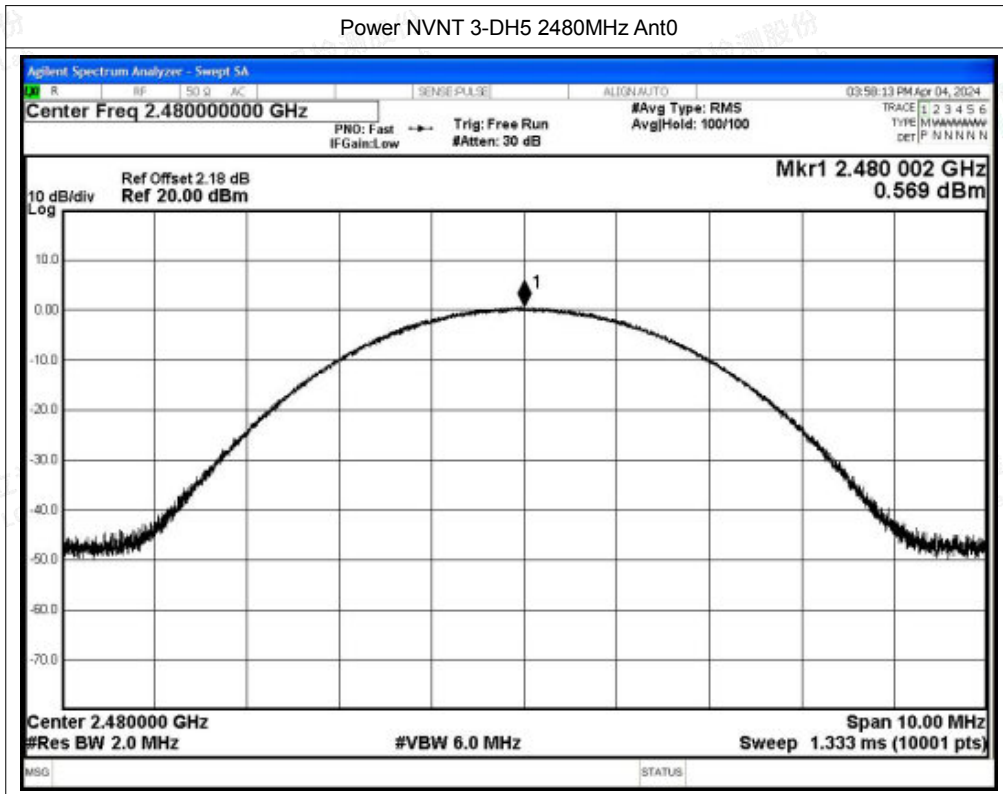
Power NVNT 2-DH5 2441MHz Ant0



Power NVNT 2-DH5 2480MHz Ant0









A.3 Carrier Frequencies Separation

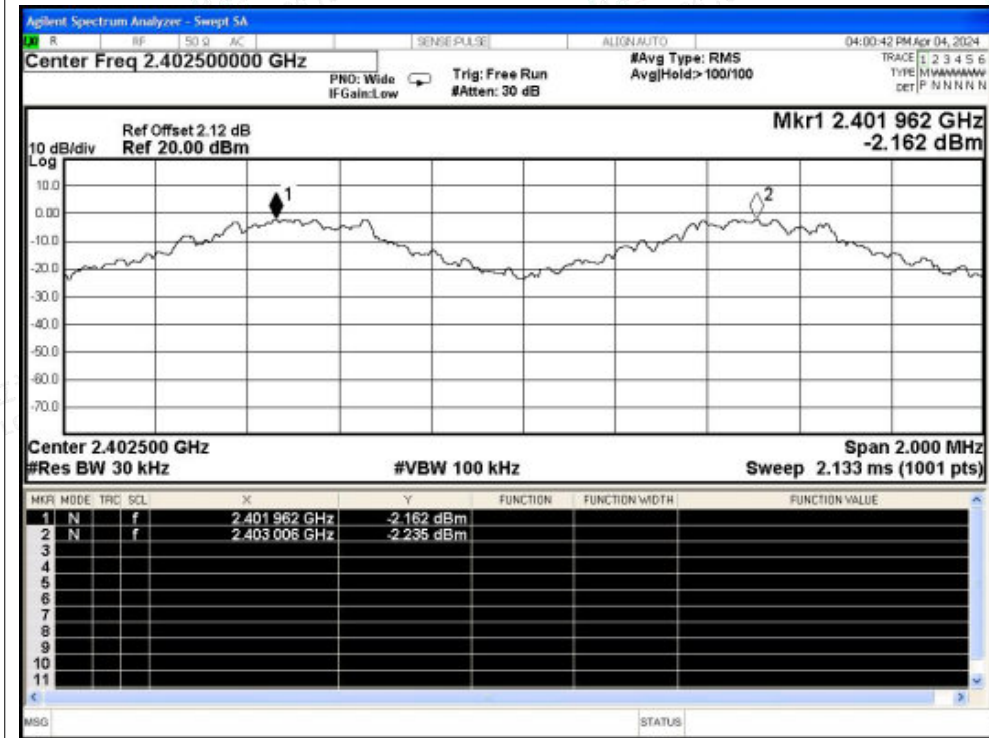
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2401.962	2403.006	1.044	0.683	Pass
NVNT	2-DH5	Ant0	2402.154	2403.156	1.002	0.874	Pass
NVNT	3-DH5	Ant0	2402.142	2403.16	1.018	0.865	Pass



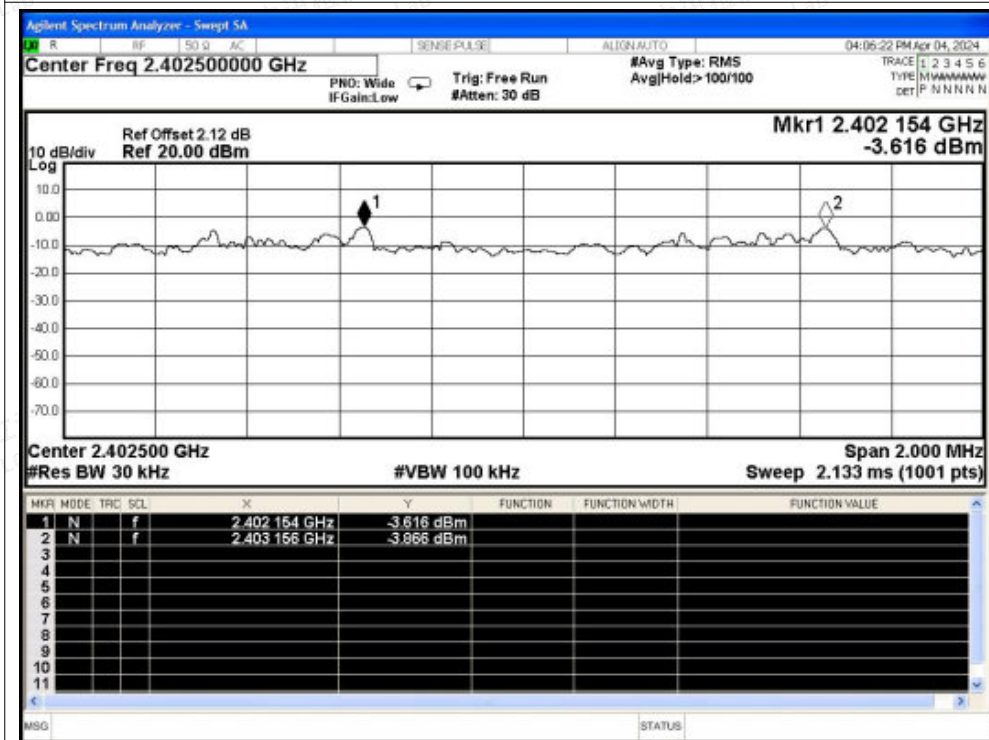


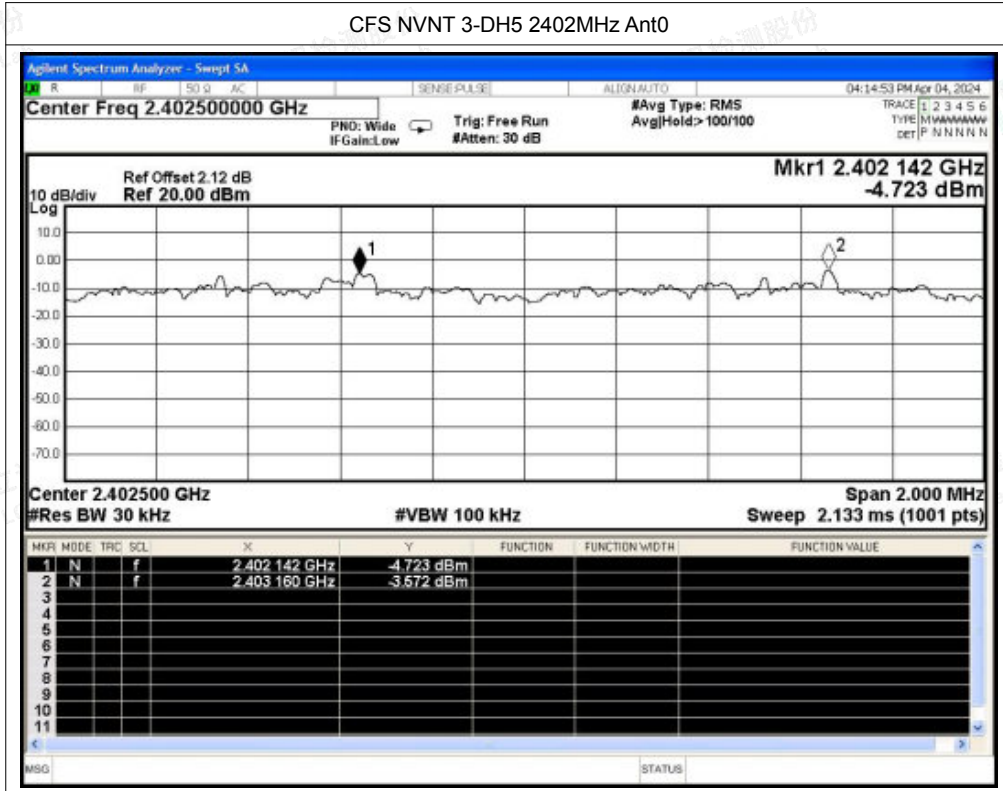
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0



CFS NVNT 2-DH5 2402MHz Ant0







A.4 Dwell Time

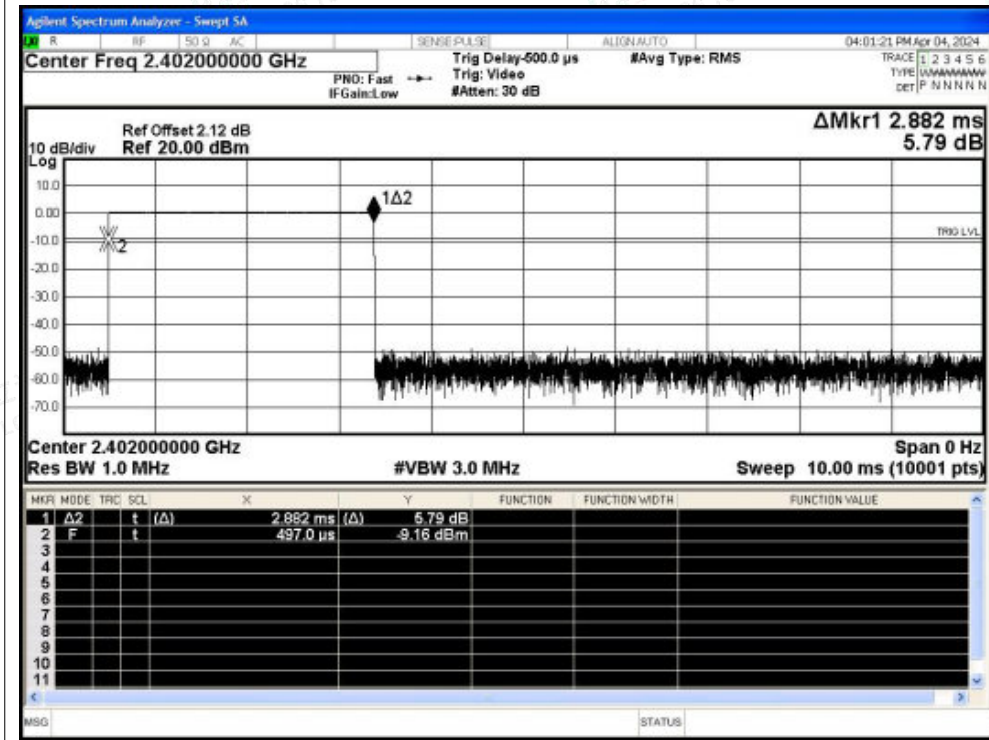
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	2.882	273.79	95	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.88	296.64	103	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.887	288.7	100	31600	400	Pass



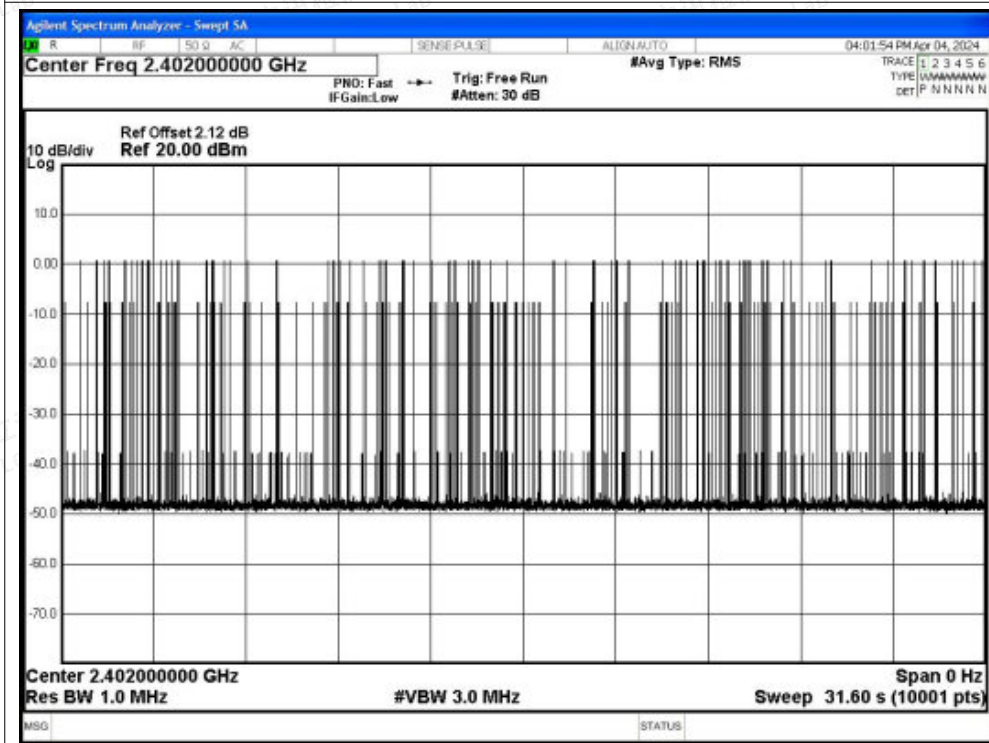


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

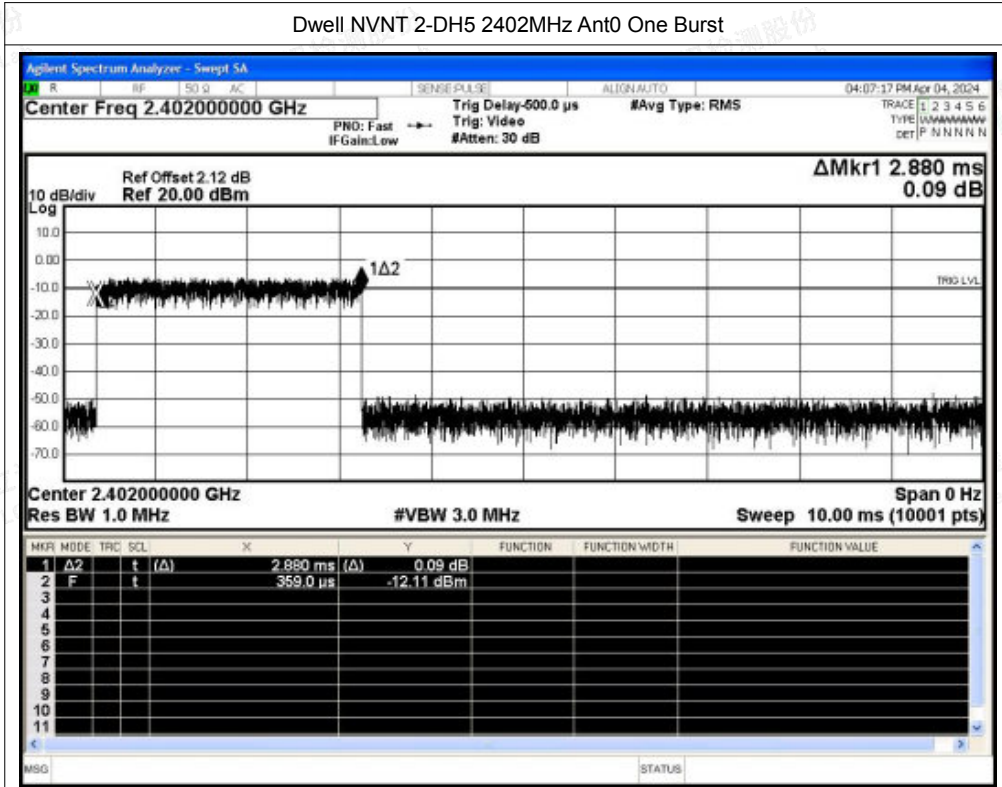


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

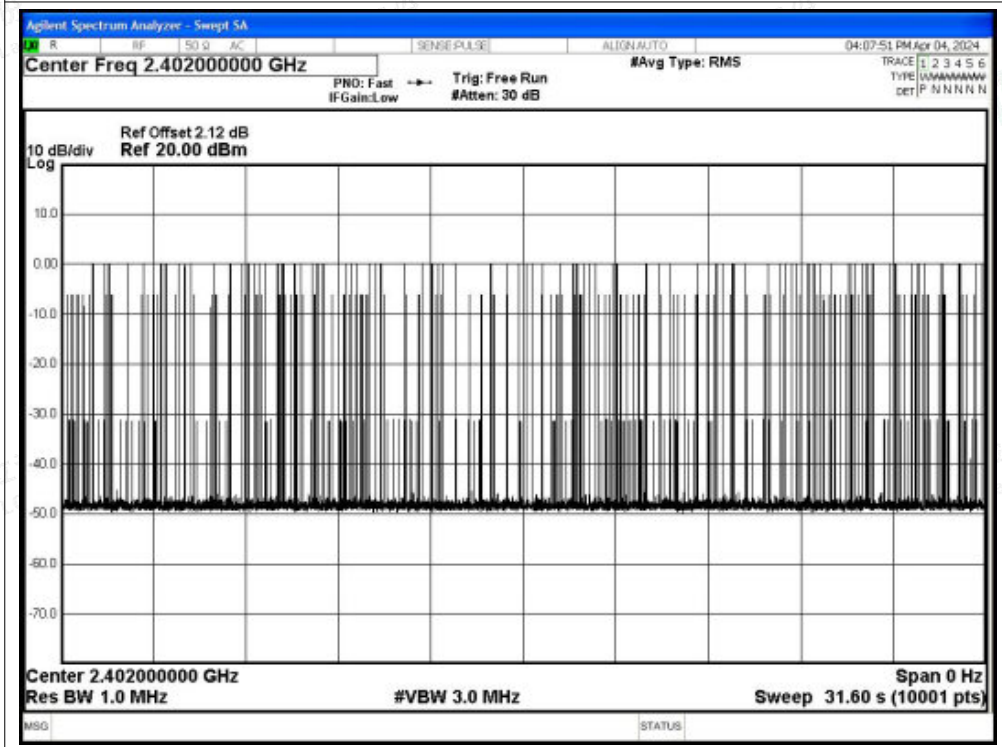




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

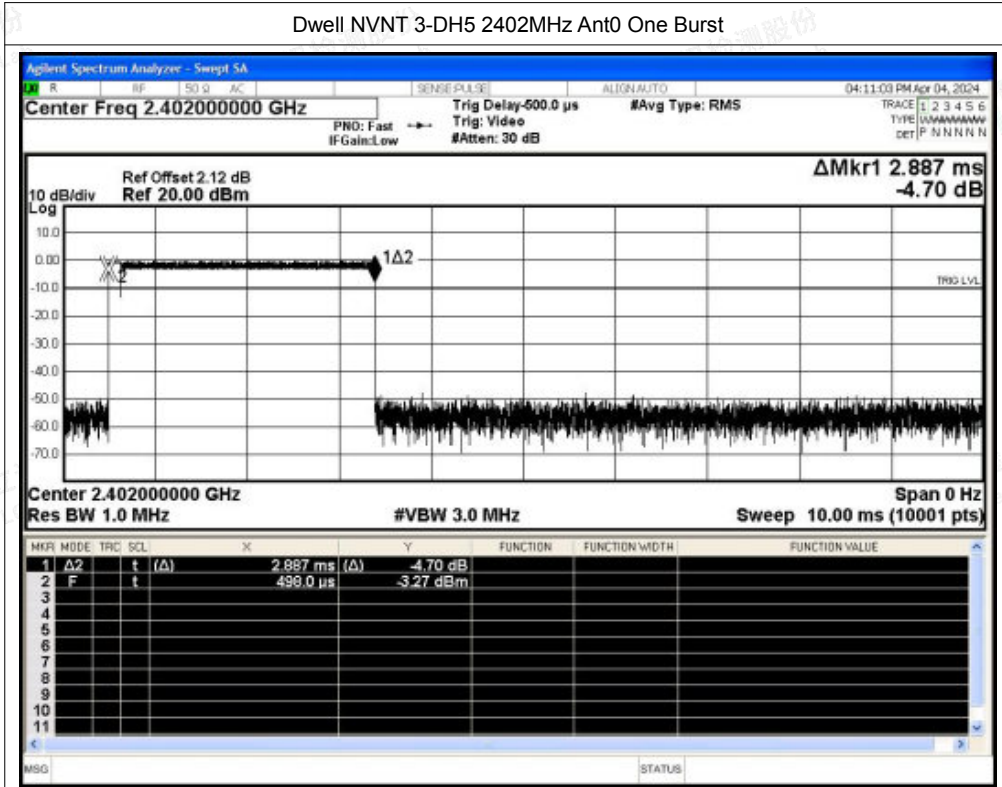


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

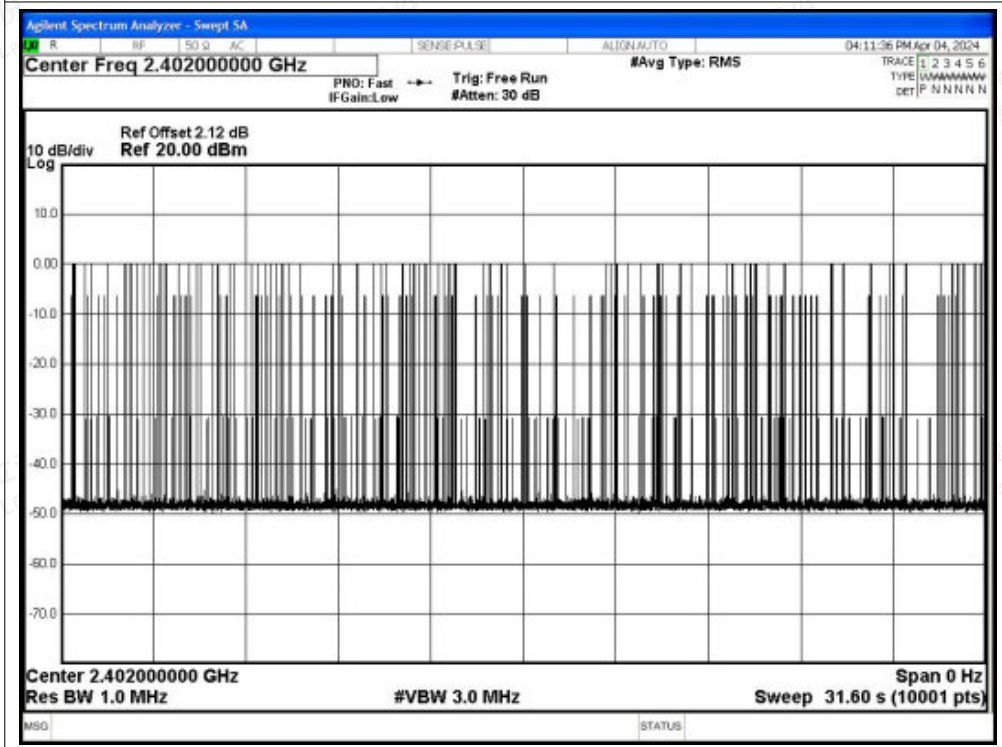




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

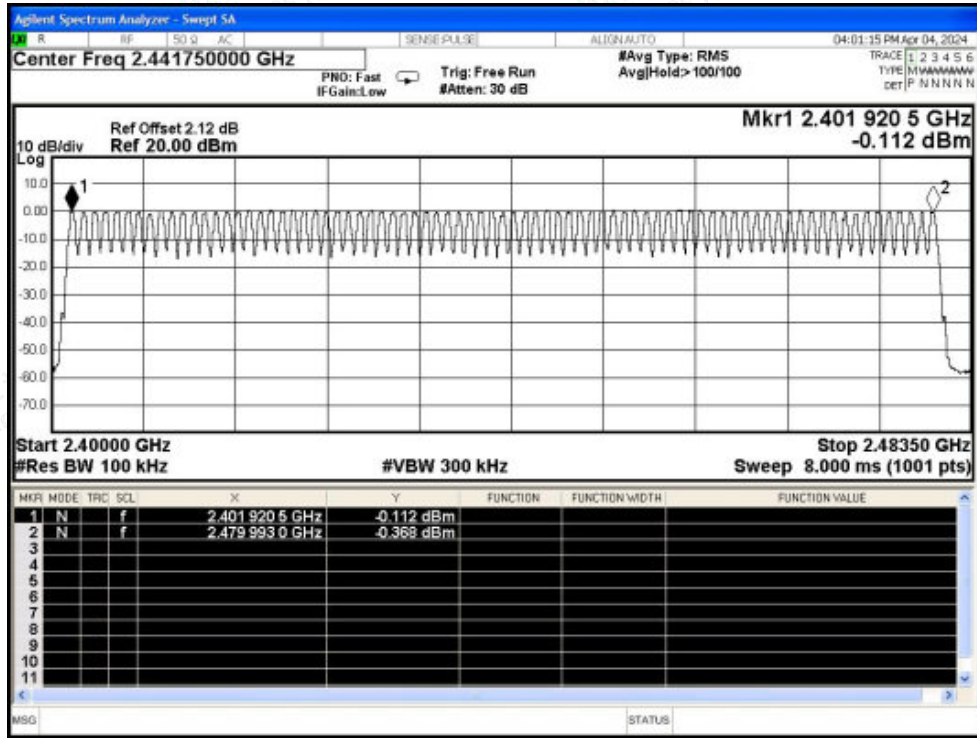
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



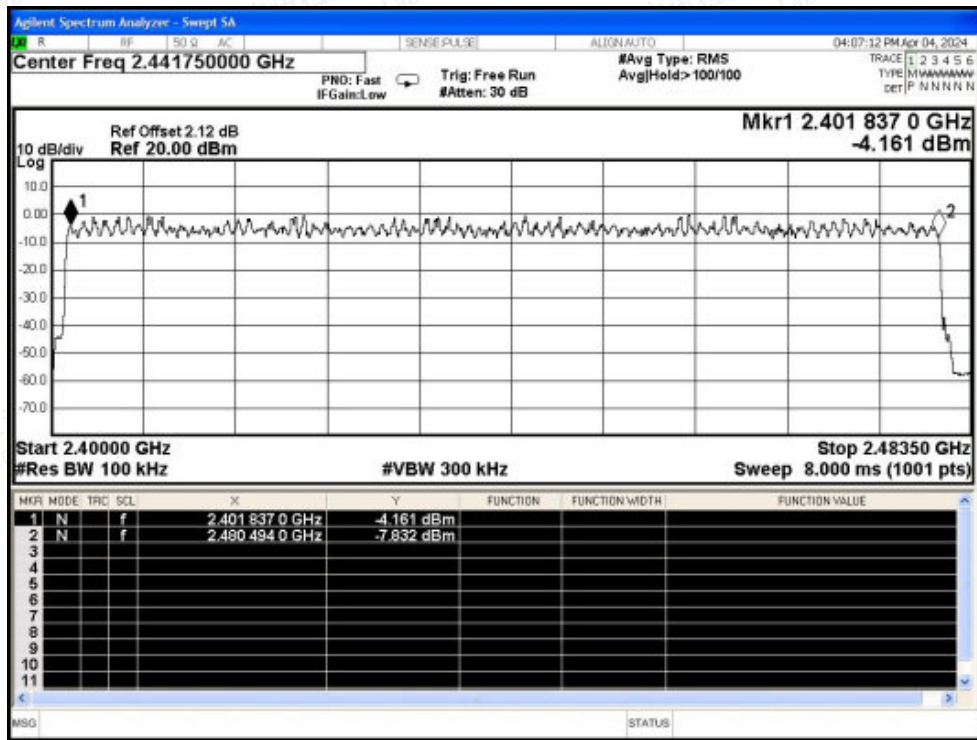


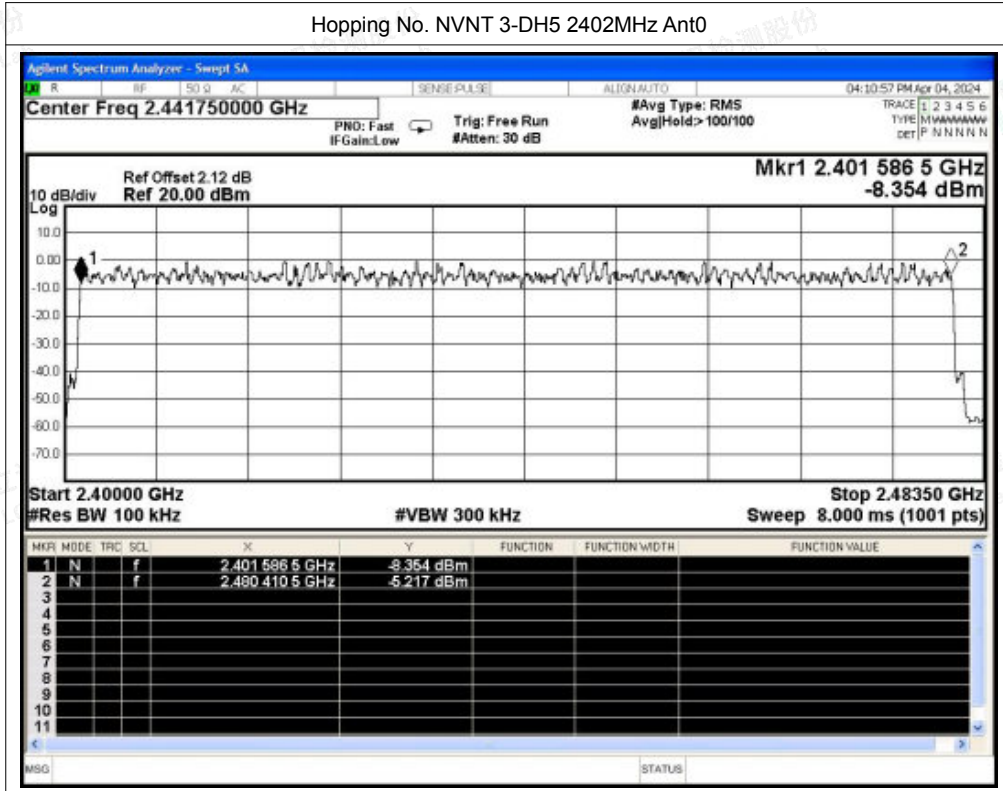
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0



Hopping No. NVNT 2-DH5 2402MHz Ant0







A.6 Band Edge

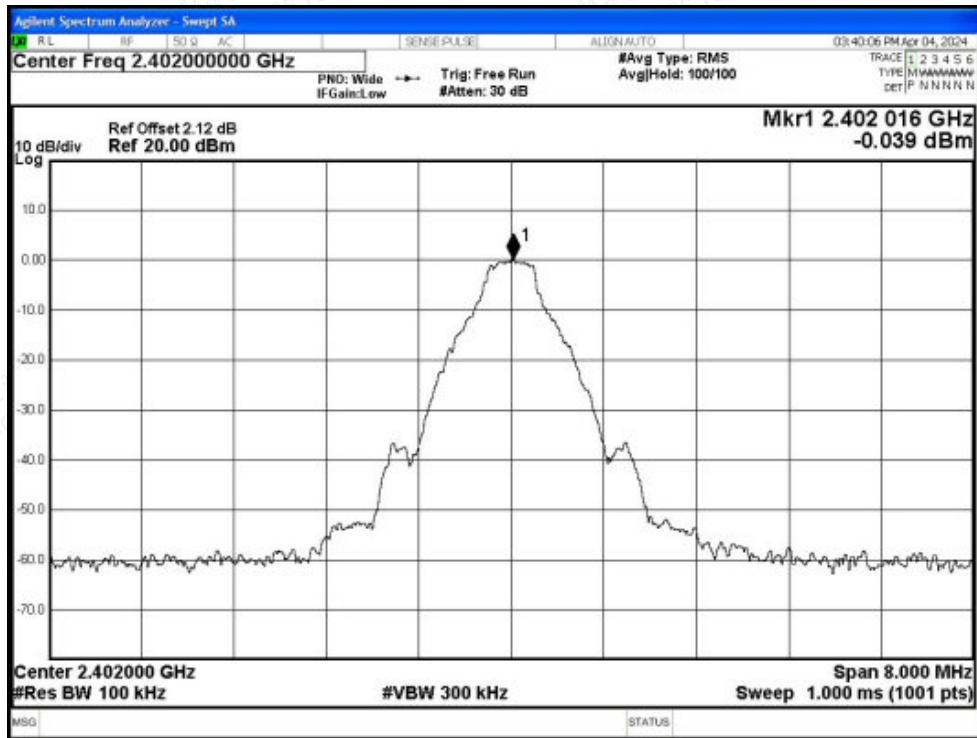
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-57.12	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-57.25	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-51.12	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-55.33	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-53.28	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-53.75	-20	Pass



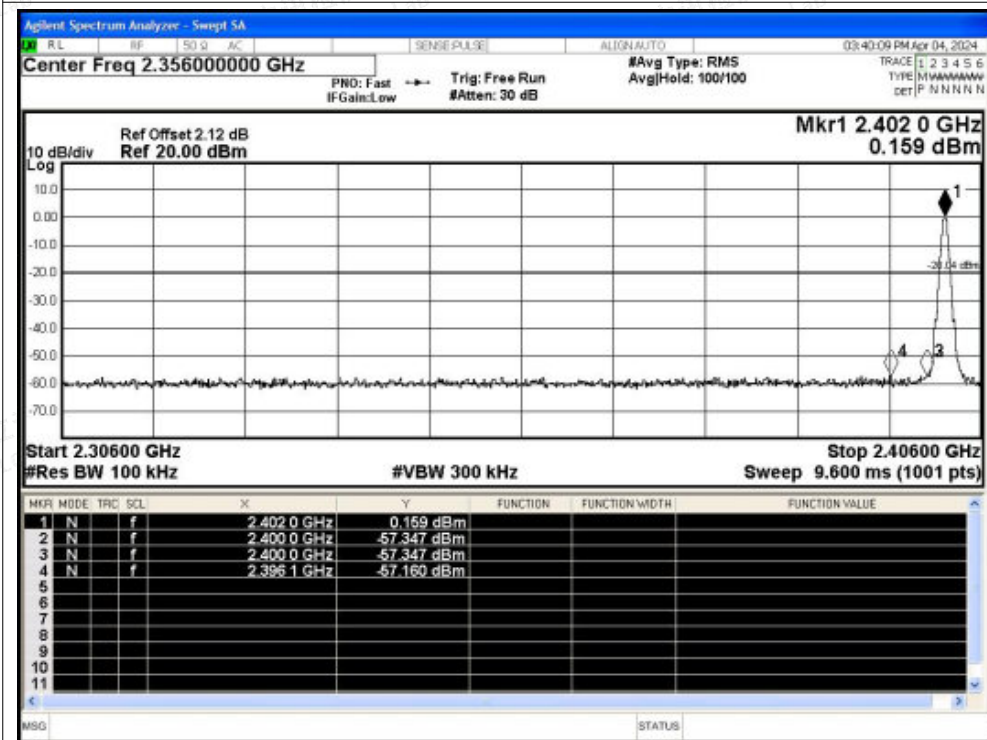


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref

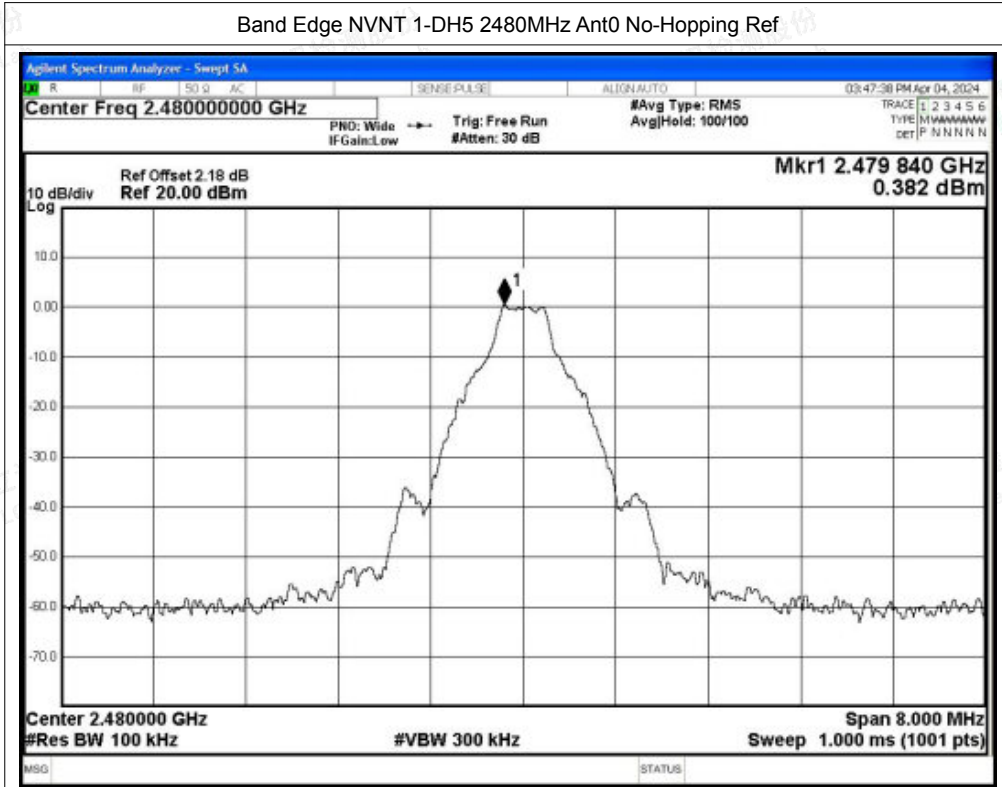


Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

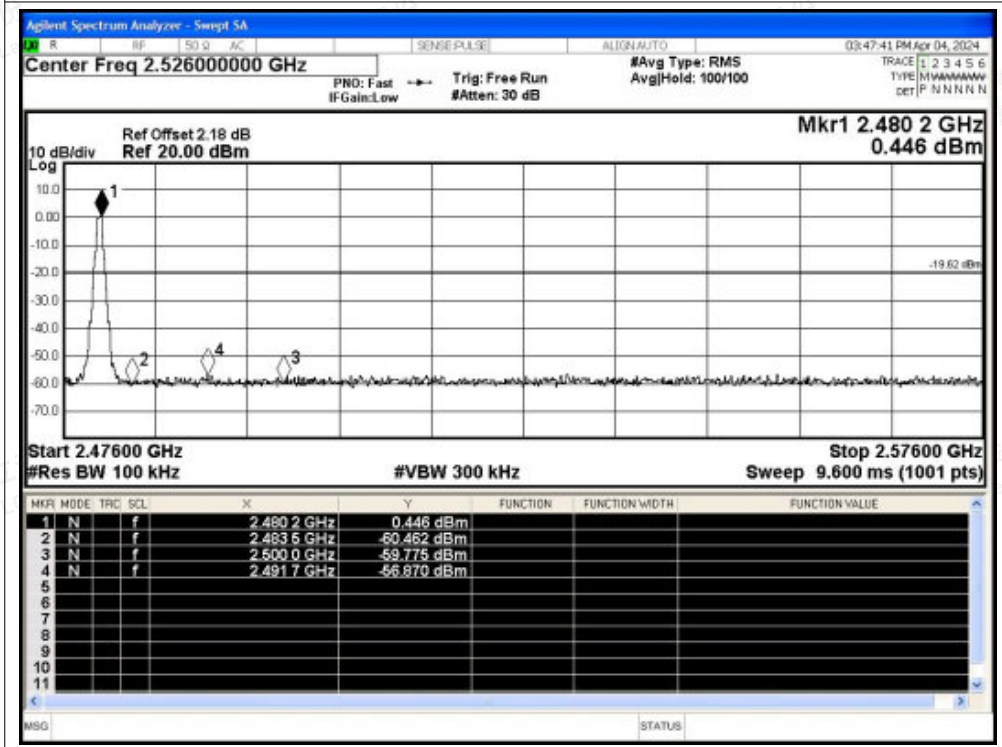




Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref

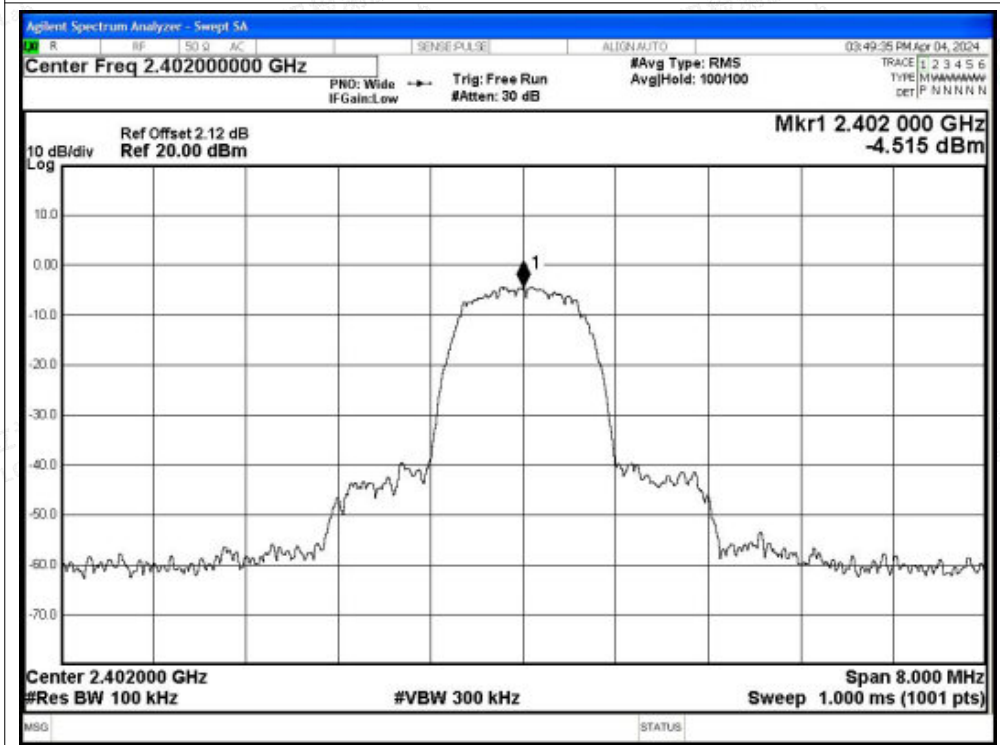


Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission

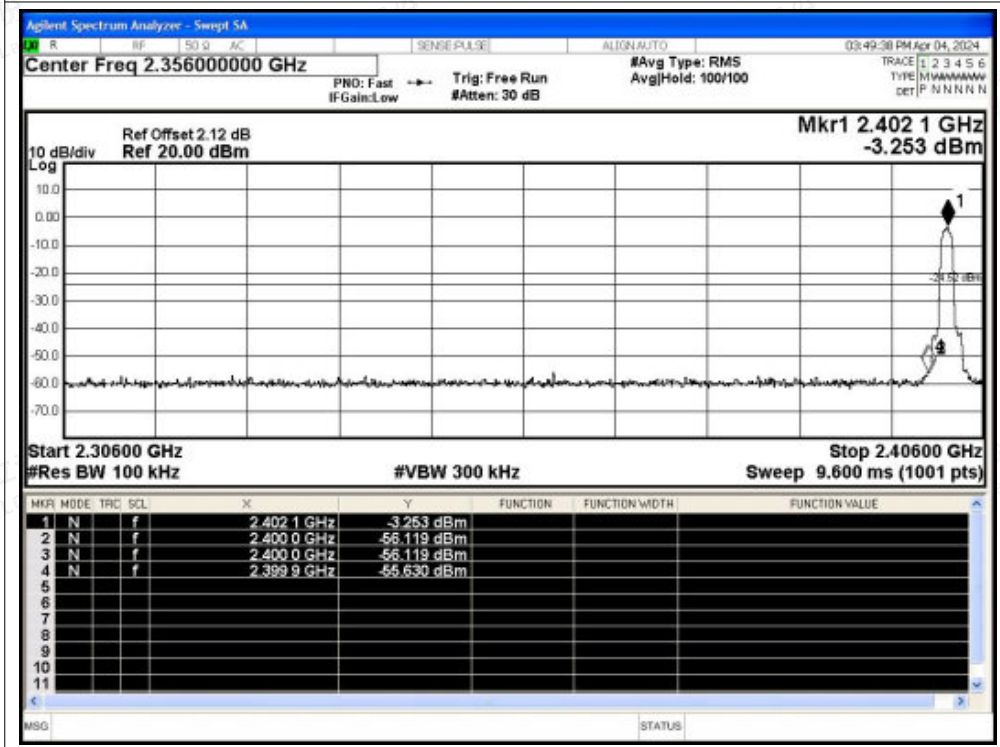




Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref

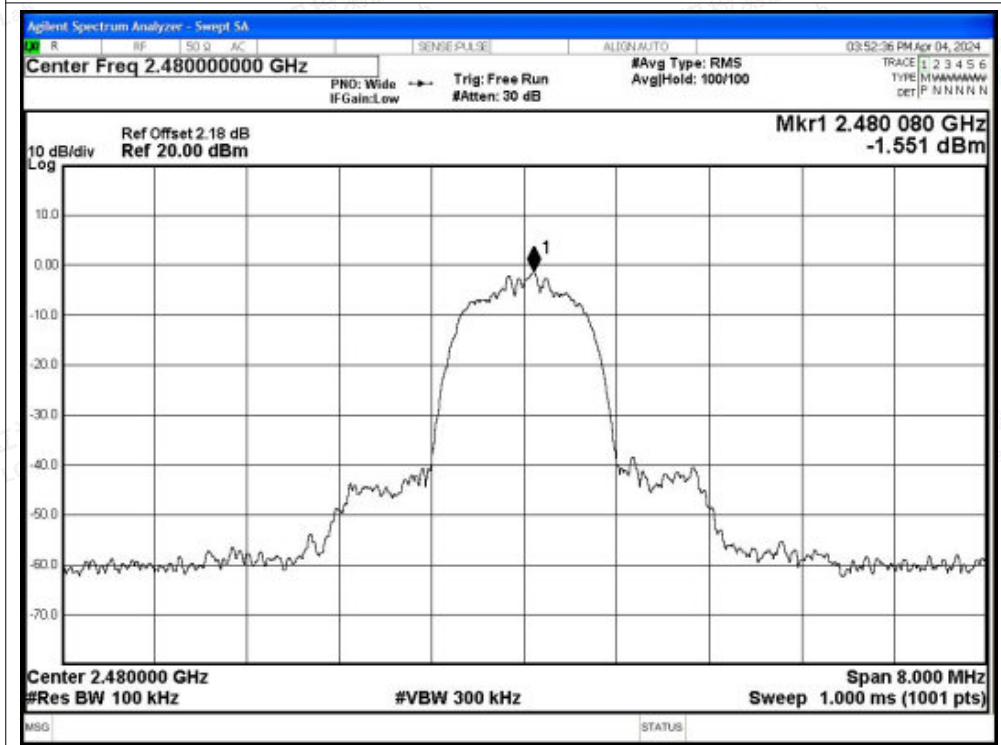


Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission

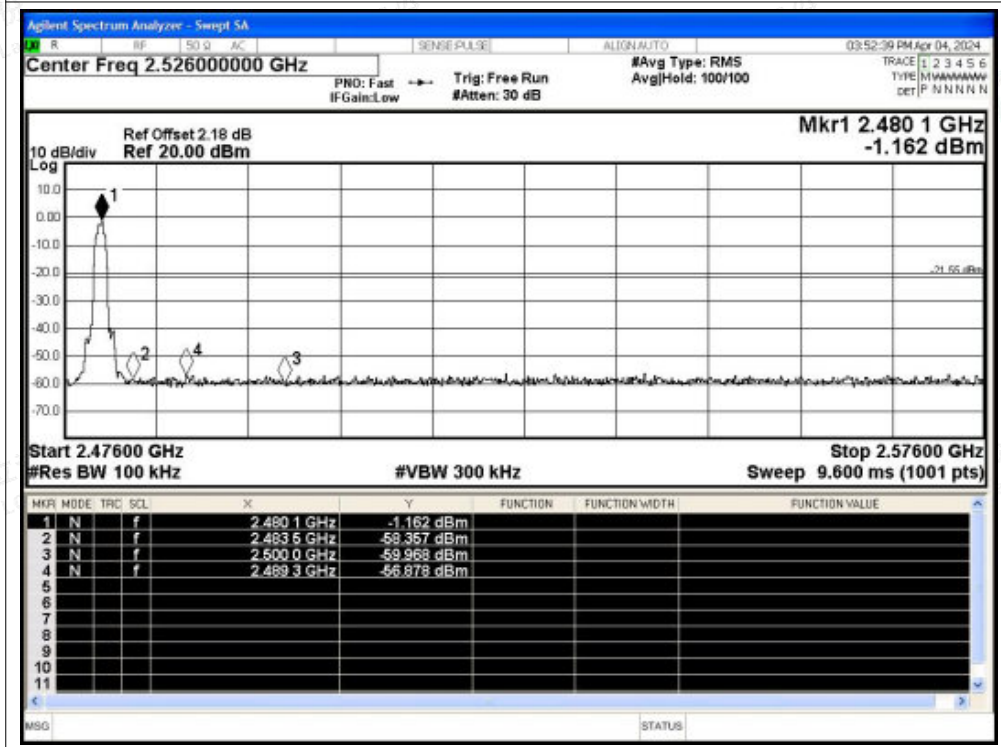




Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref

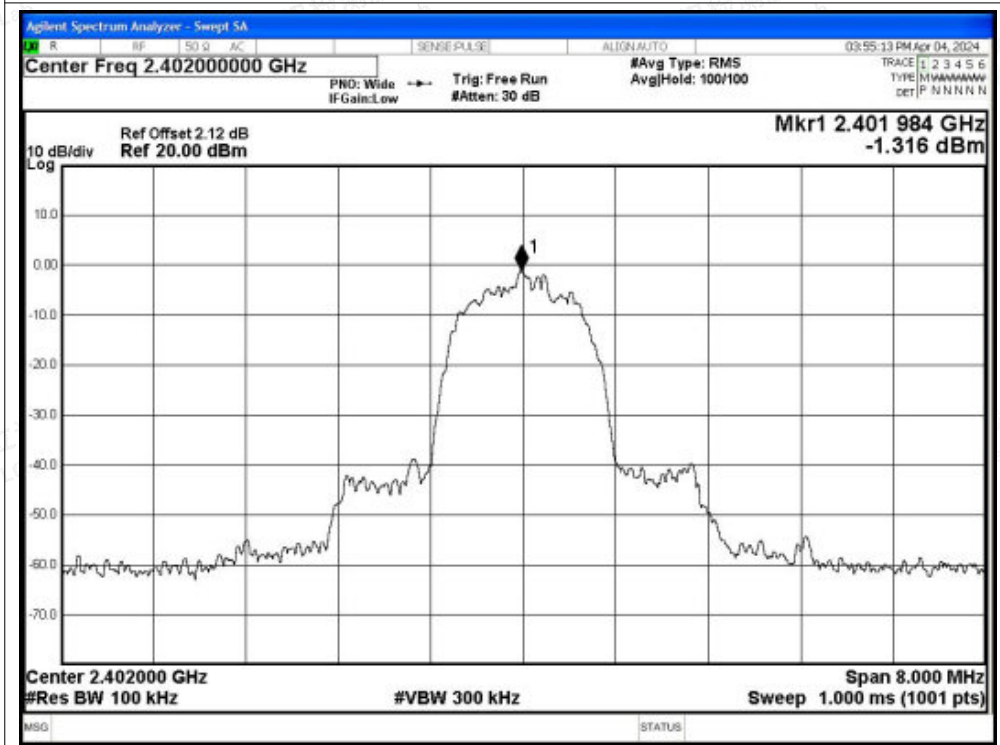


Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission

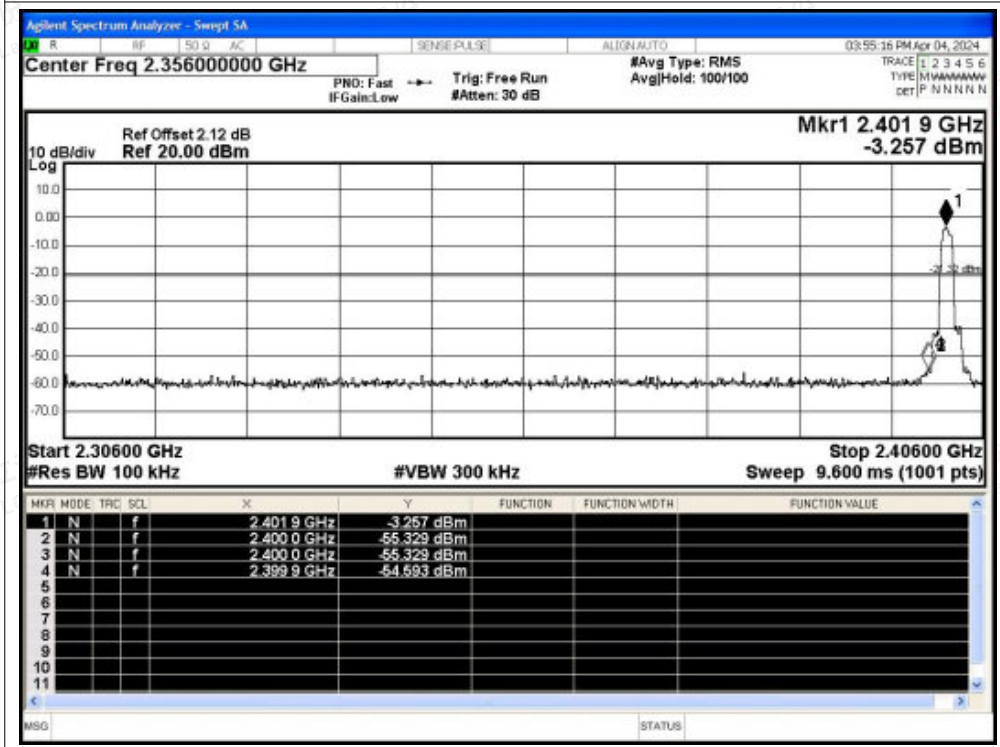




Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

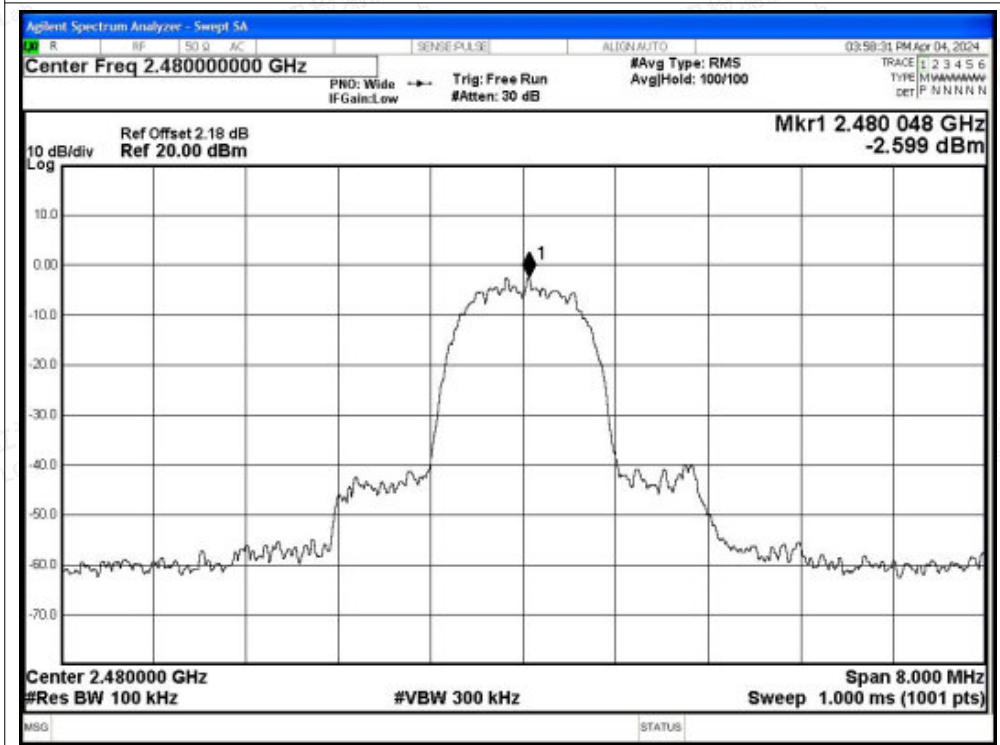


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

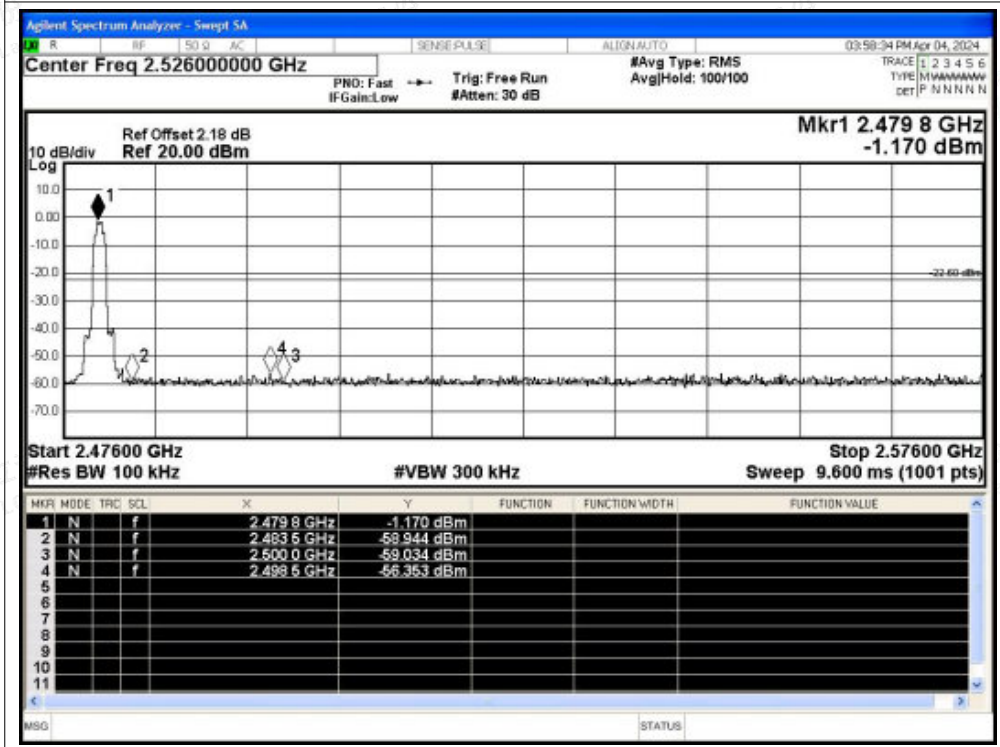




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Emission





(Hopping)

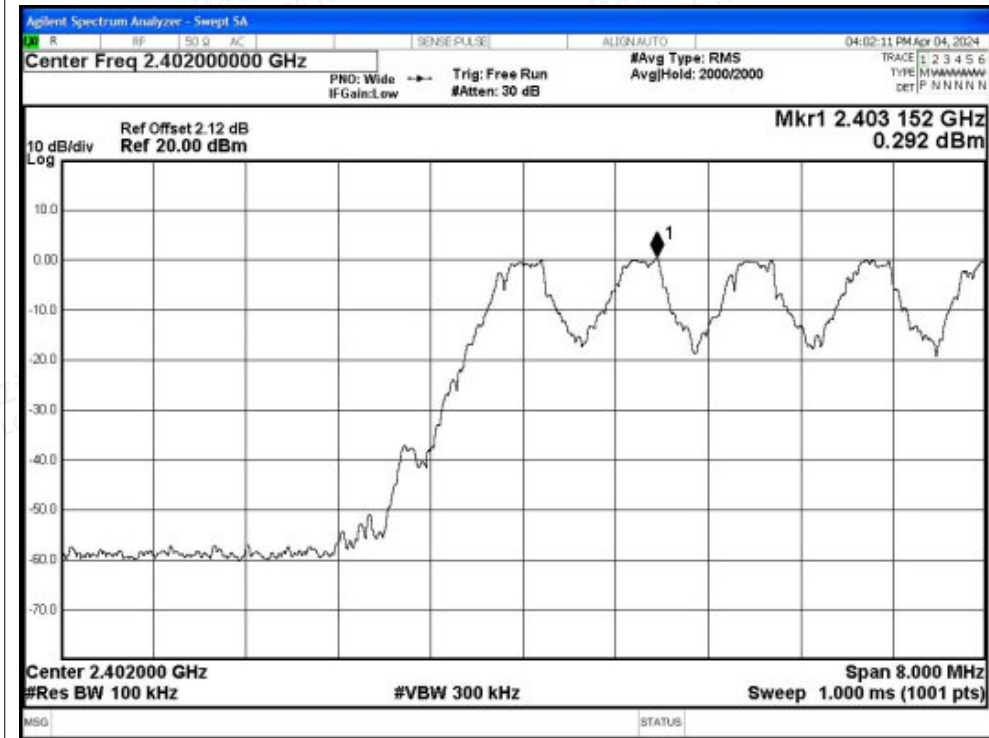
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-56.48	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-56.32	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-53.65	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-55.1	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-53.76	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-54.39	-20	Pass



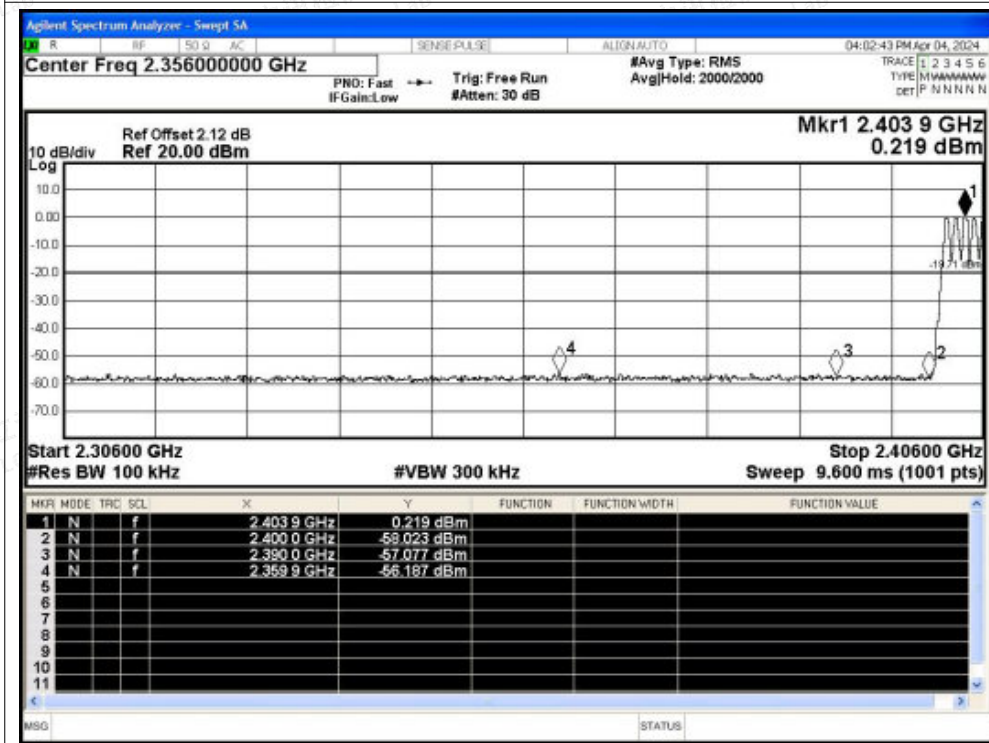


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref

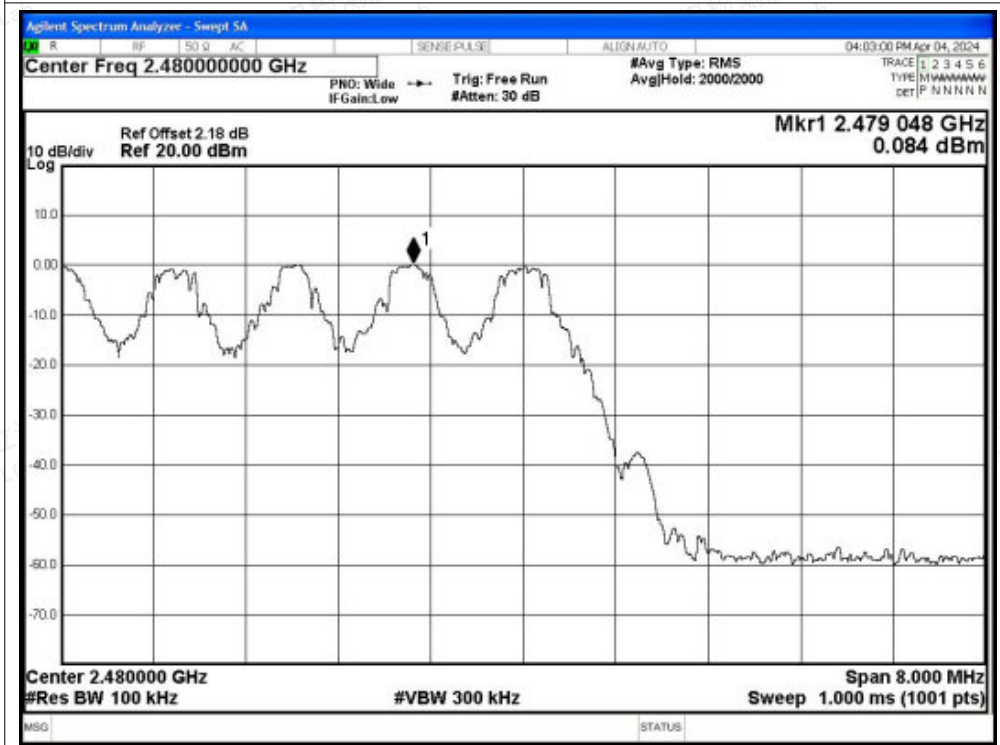


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

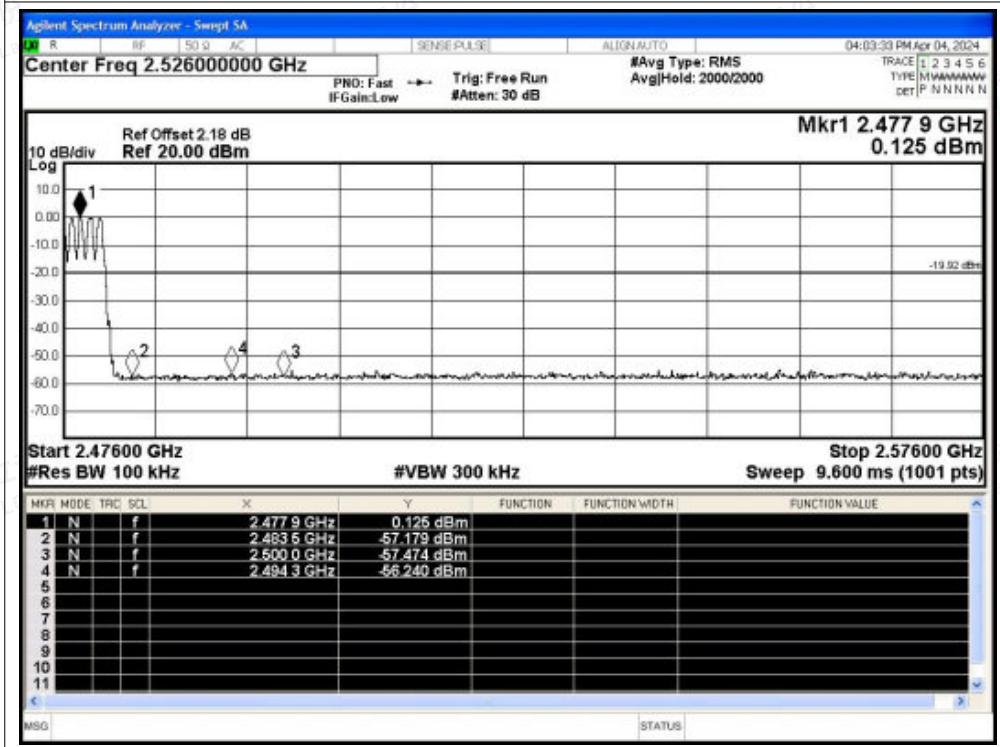




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref

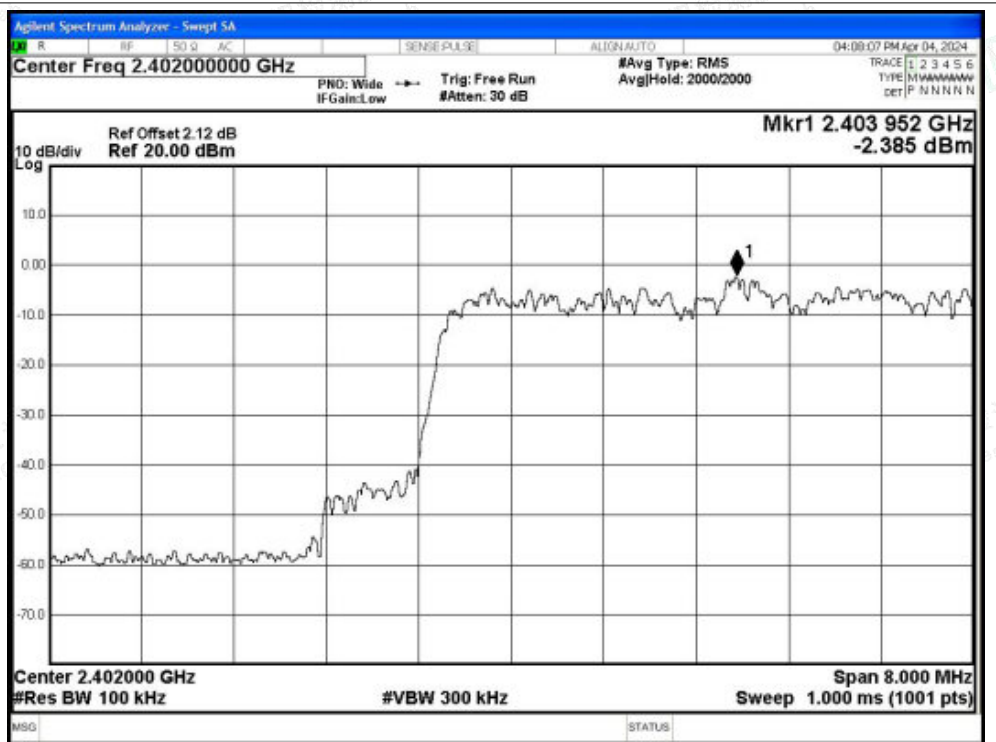


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Emission

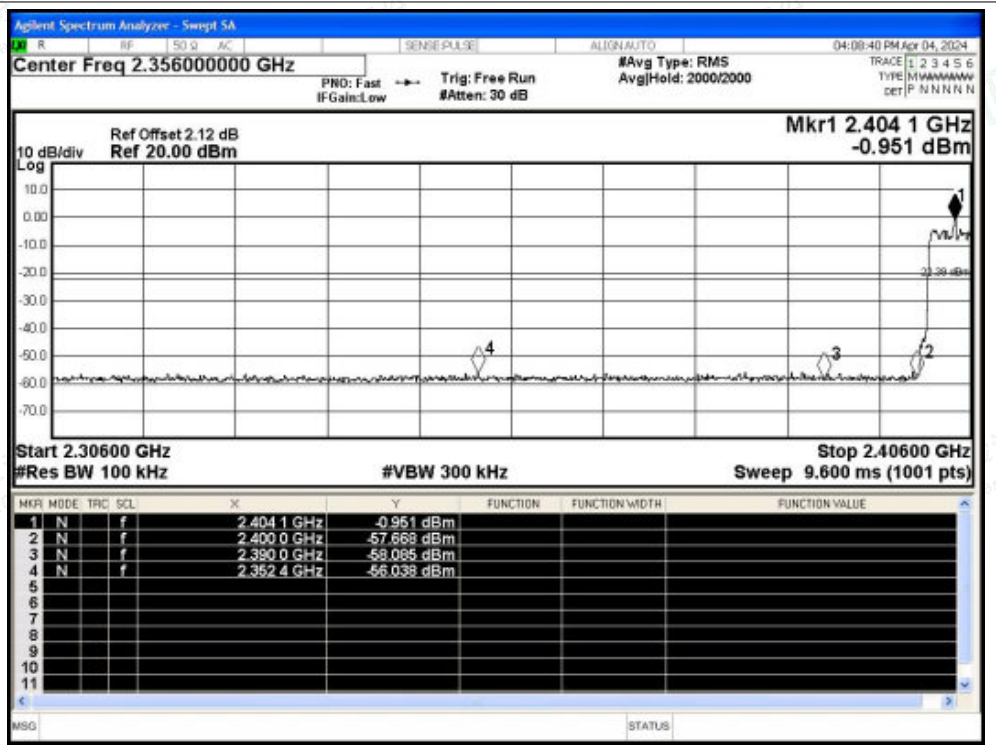




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref

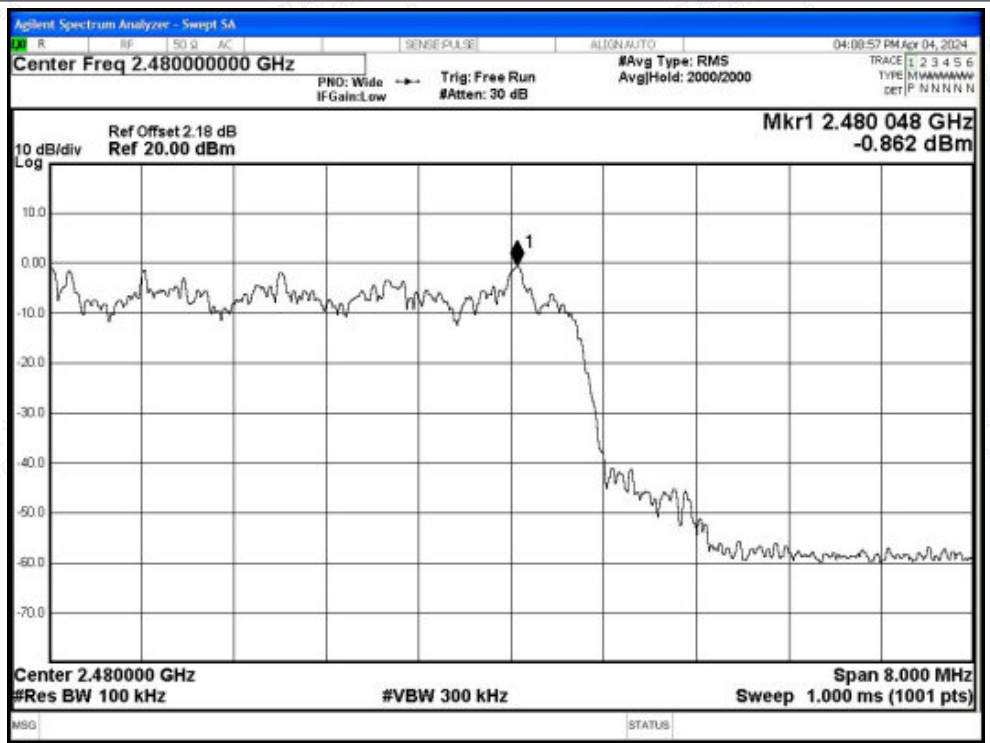


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission

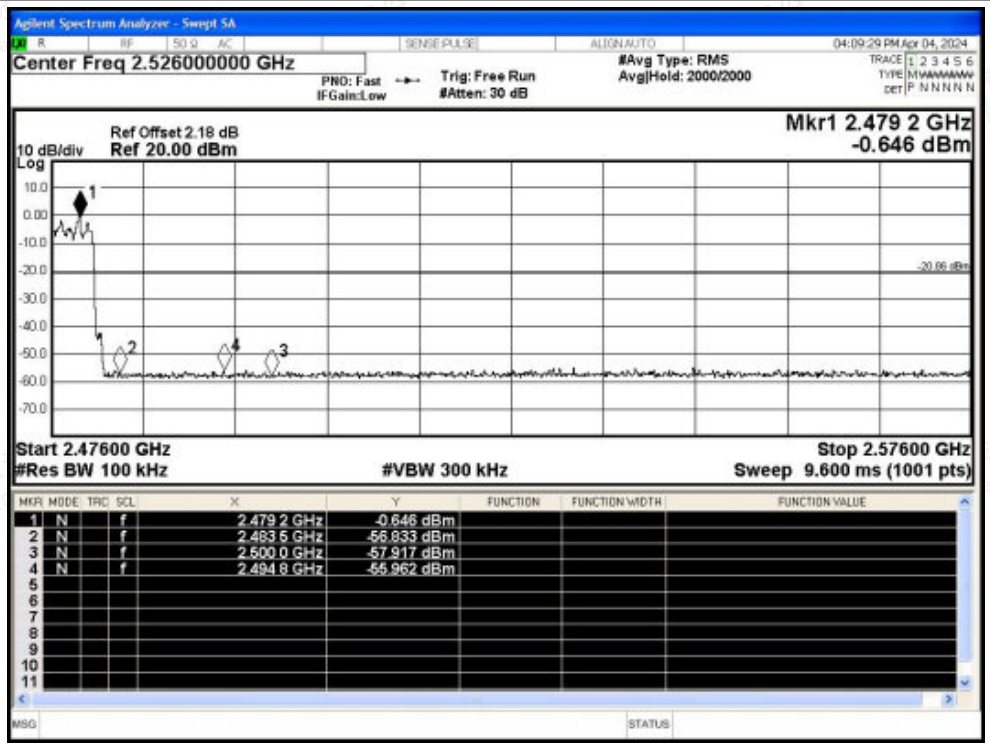




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref

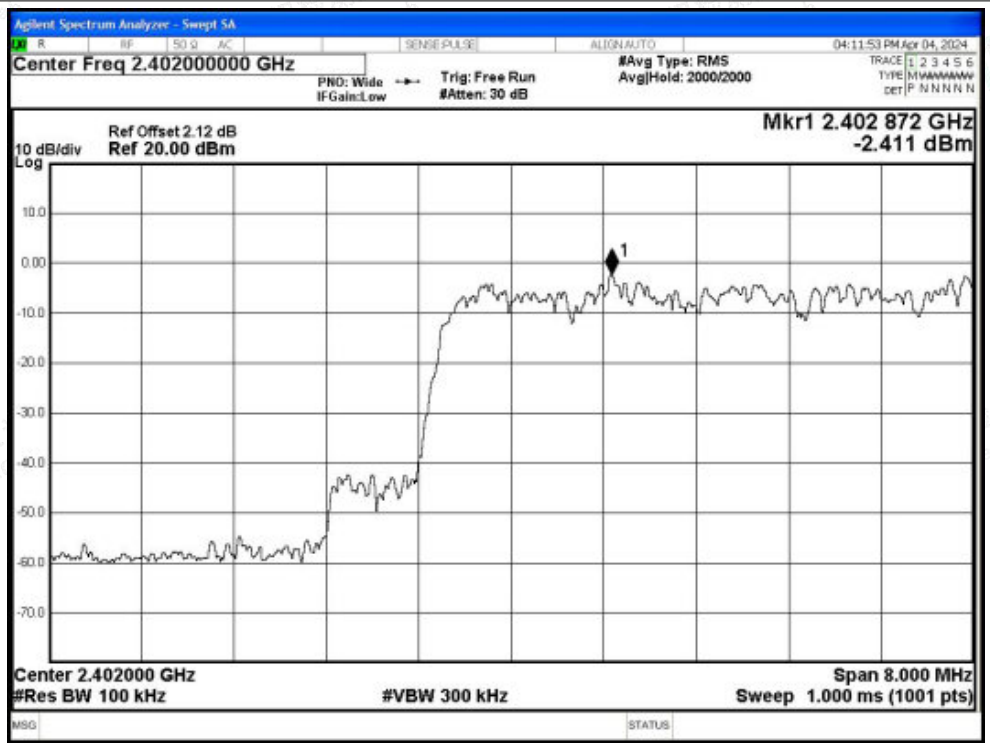


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission

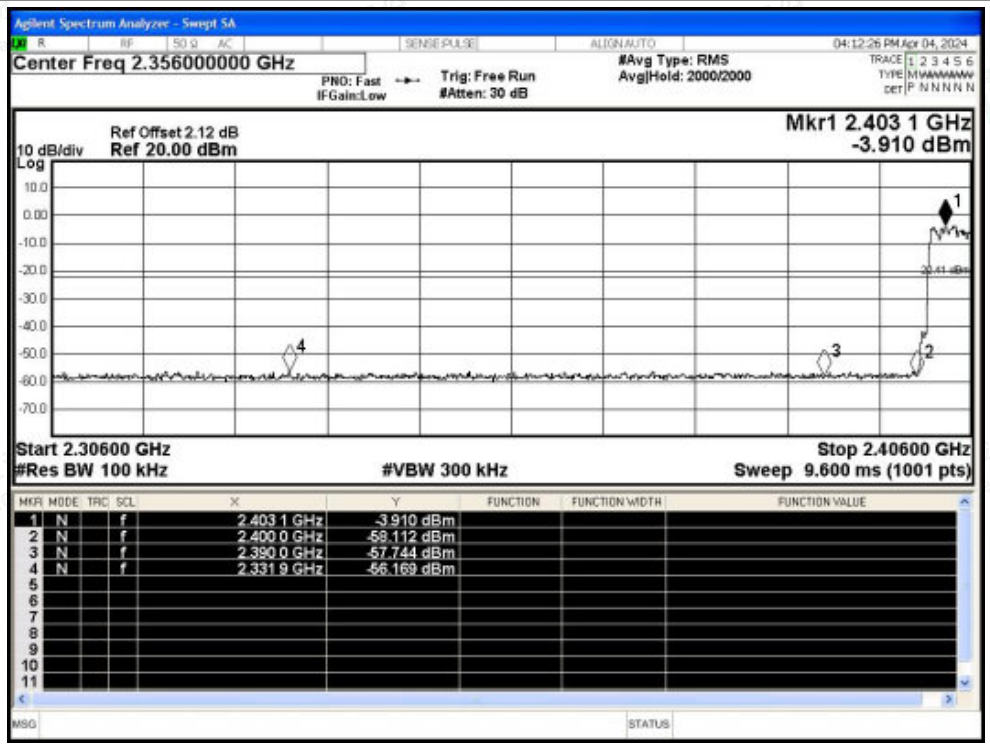




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref

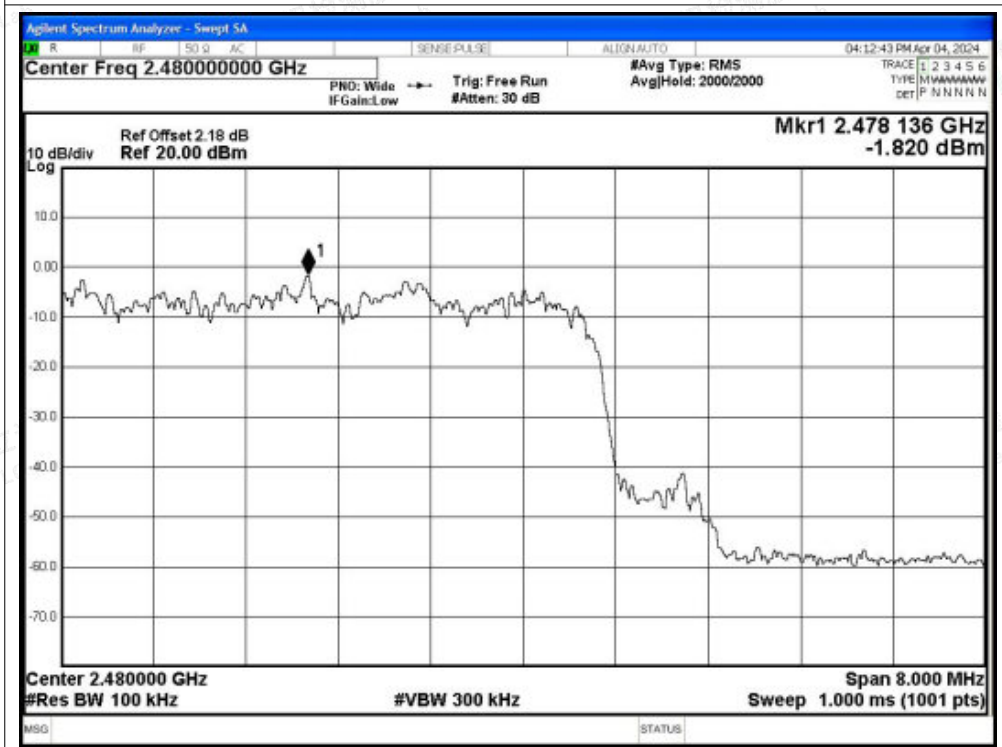


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission

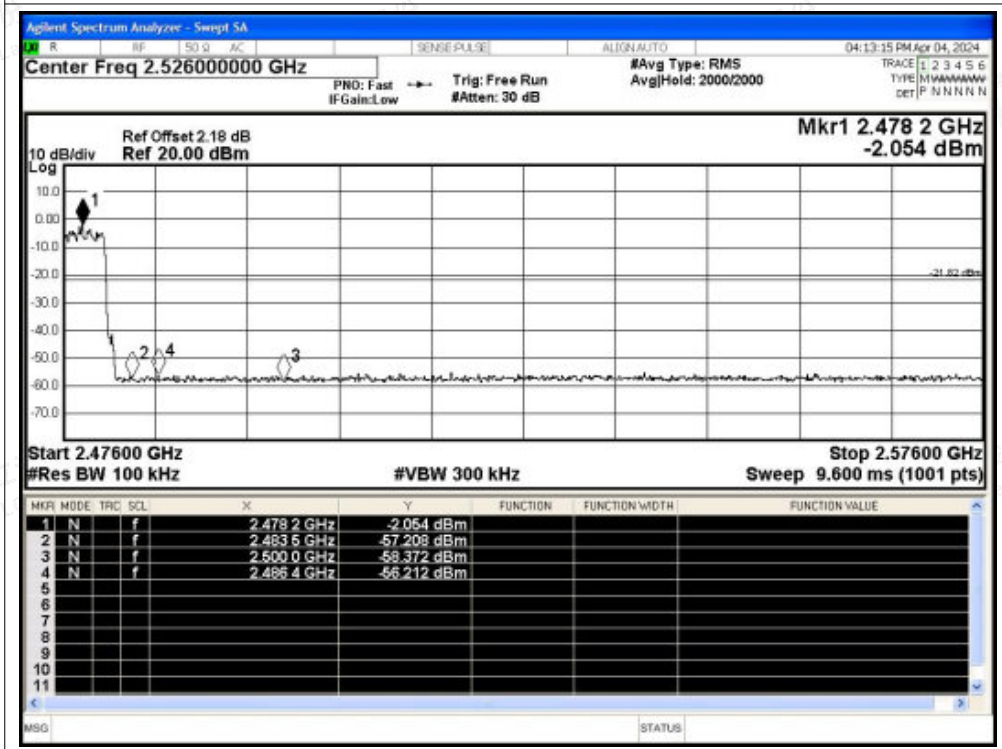




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Emission





A.7 Conducted RF Spurious Emission

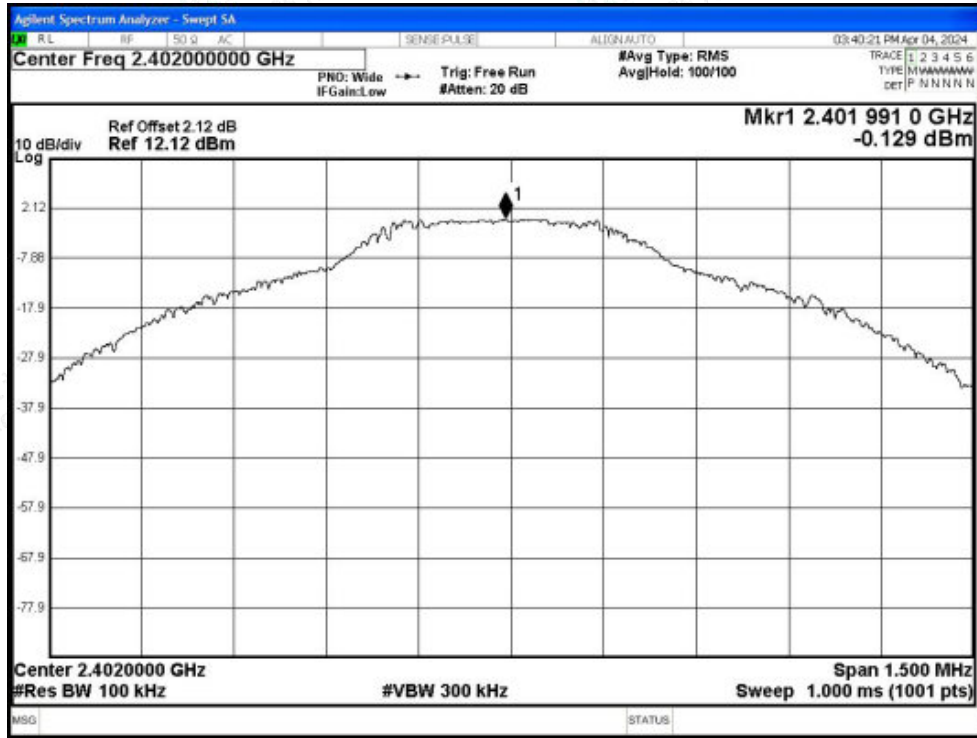
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-55.18	-20	Pass
NVNT	1-DH5	2441	Ant0	-56.12	-20	Pass
NVNT	1-DH5	2480	Ant0	-54.82	-20	Pass
NVNT	2-DH5	2402	Ant0	-53.52	-20	Pass
NVNT	2-DH5	2441	Ant0	-53.94	-20	Pass
NVNT	2-DH5	2480	Ant0	-54.2	-20	Pass
NVNT	3-DH5	2402	Ant0	-53.88	-20	Pass
NVNT	3-DH5	2441	Ant0	-53.06	-20	Pass
NVNT	3-DH5	2480	Ant0	-53.54	-20	Pass



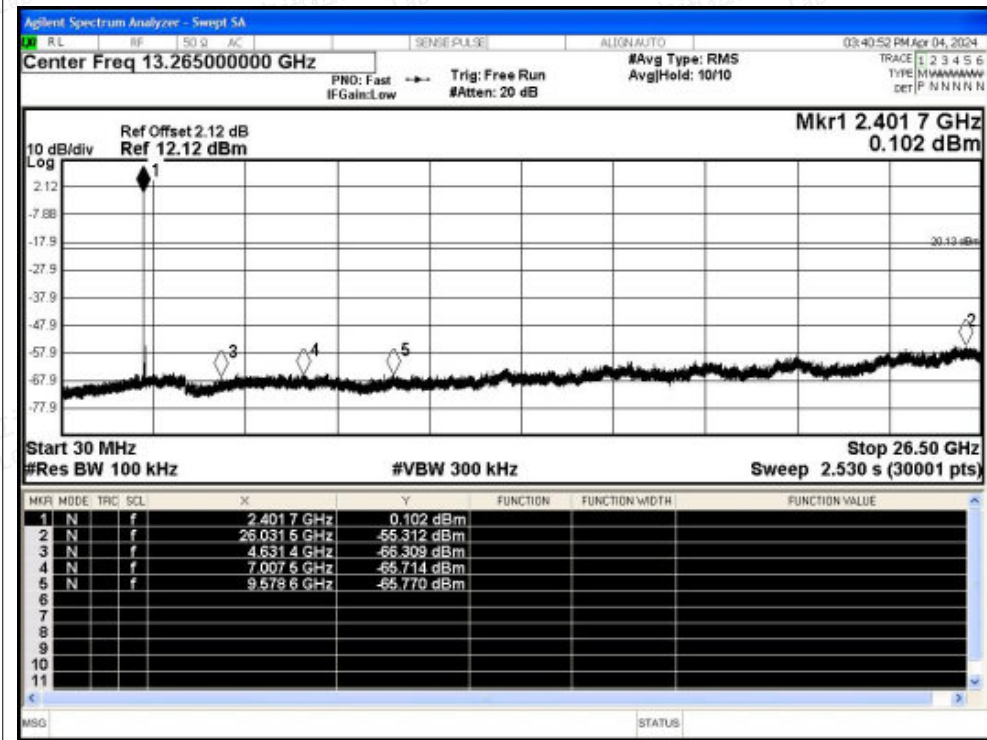


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

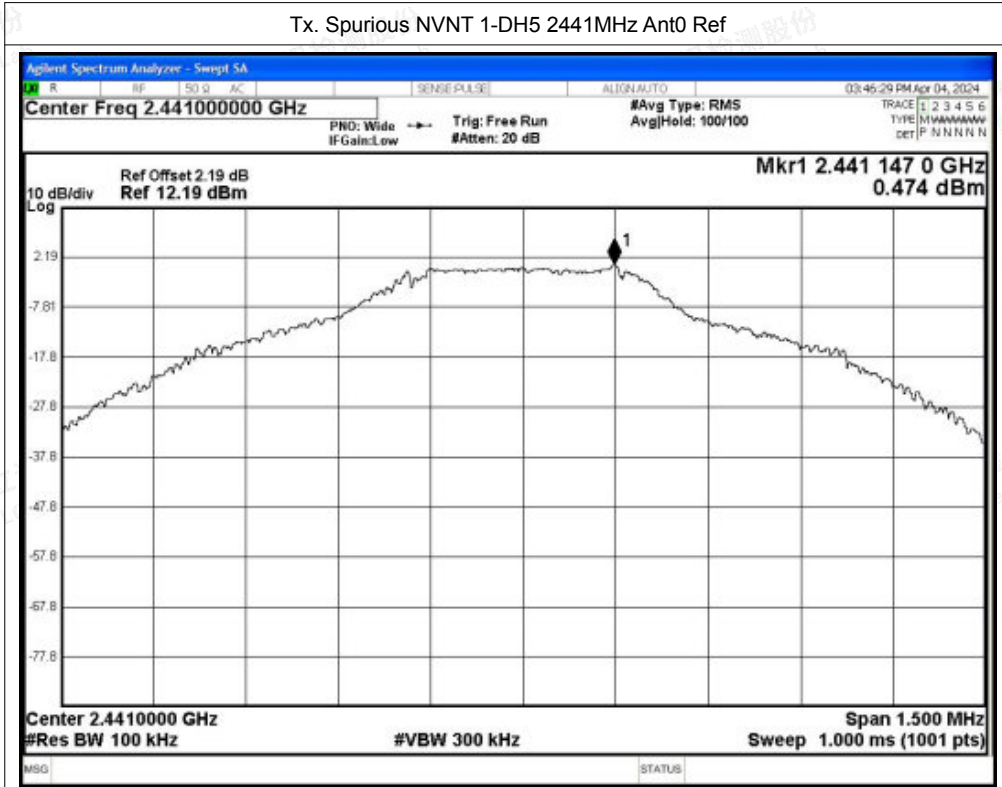


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

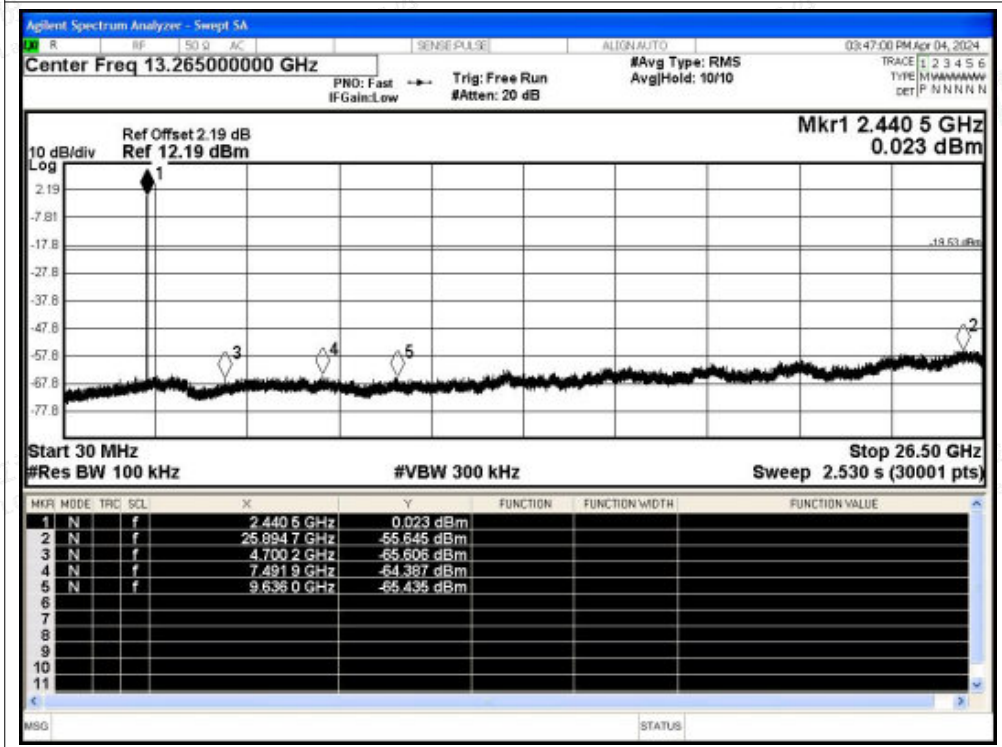




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref

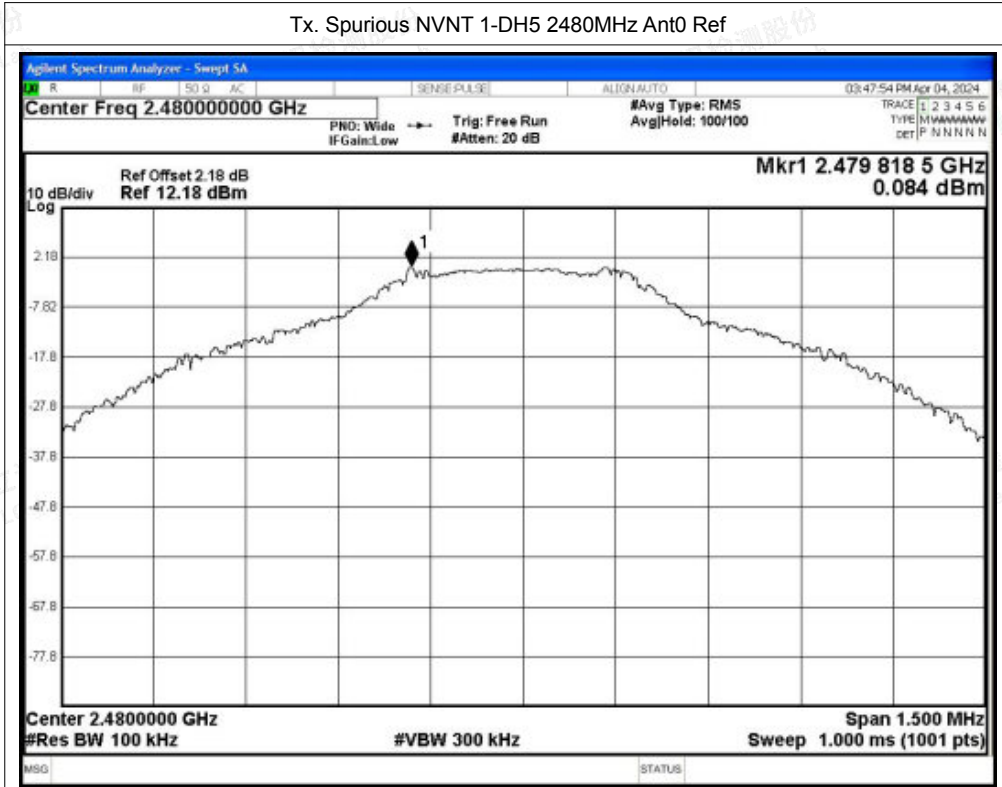


Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

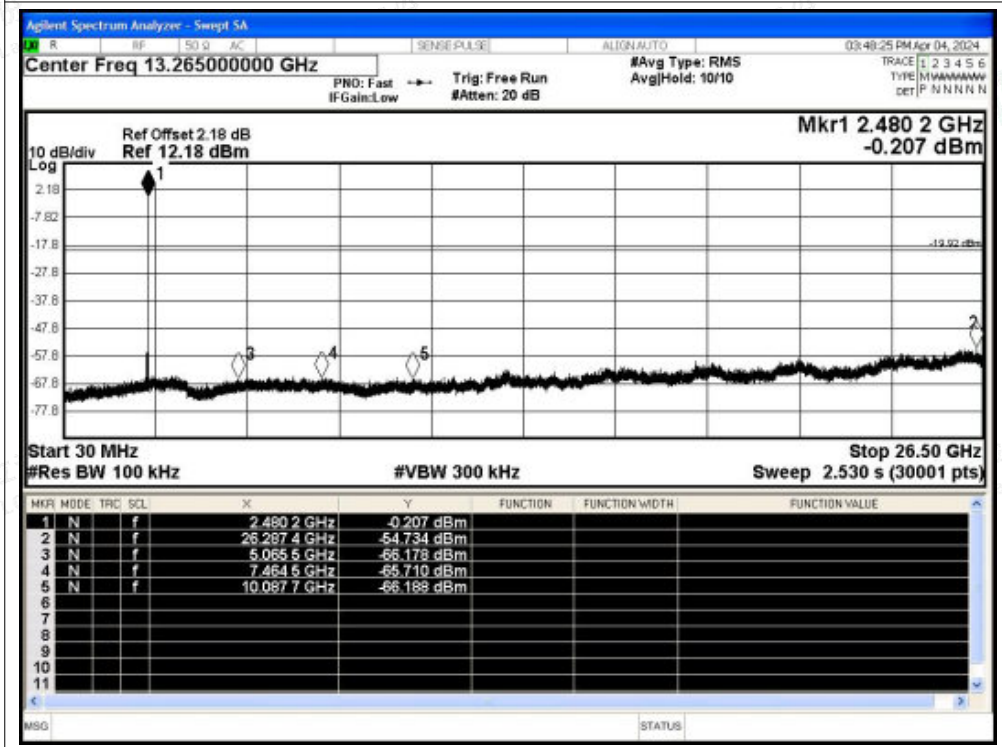




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

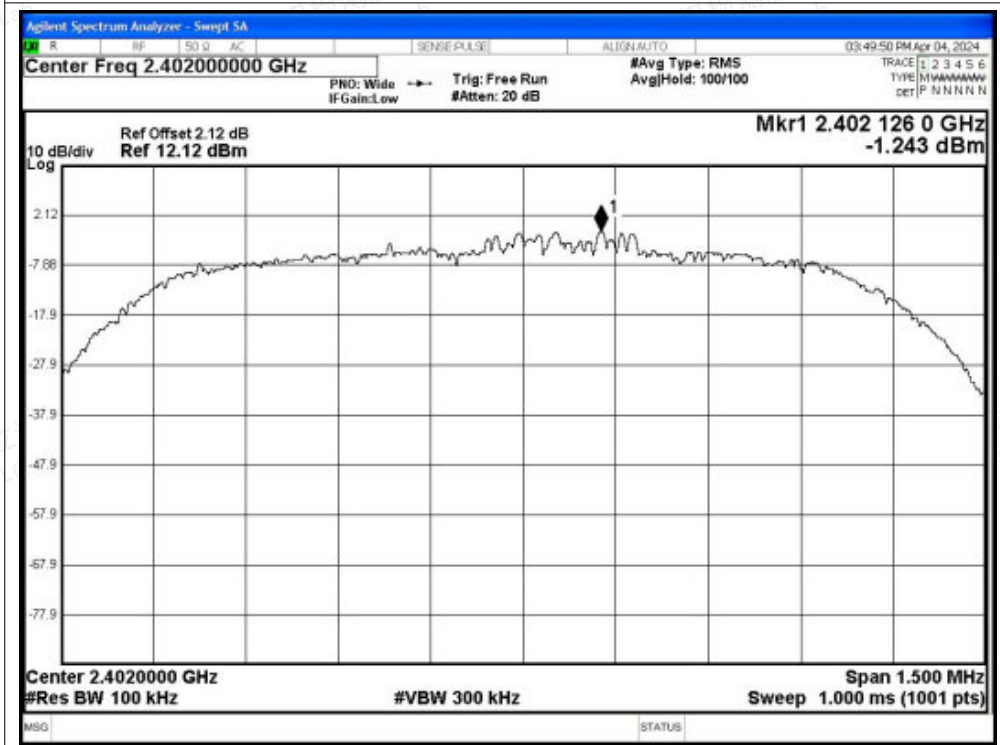


Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission

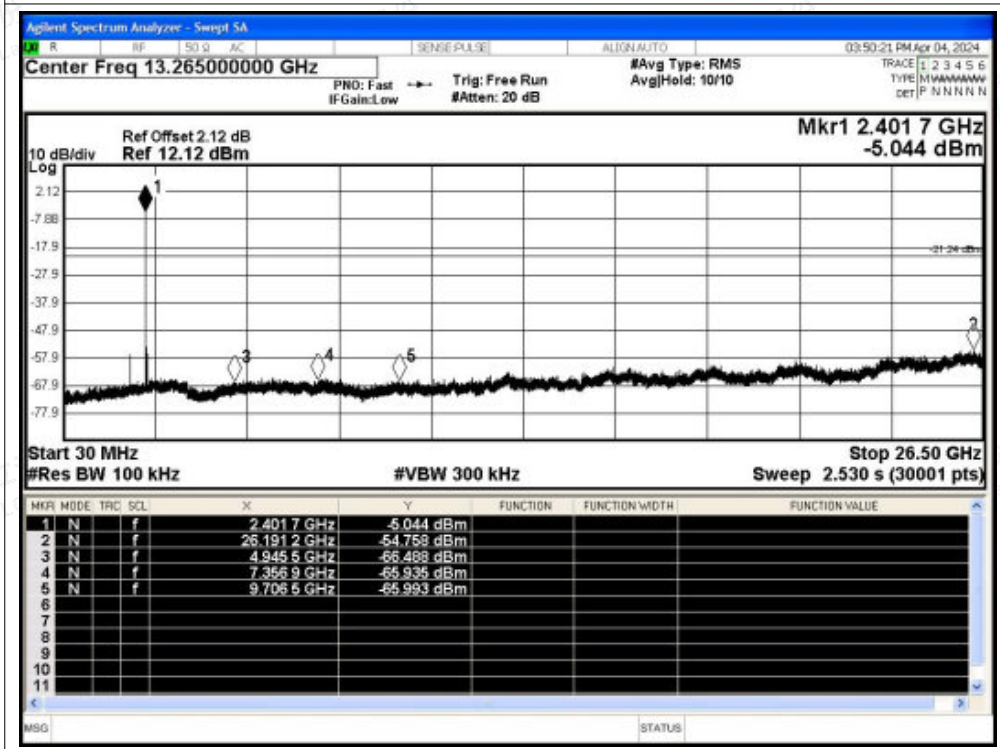




Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Ref

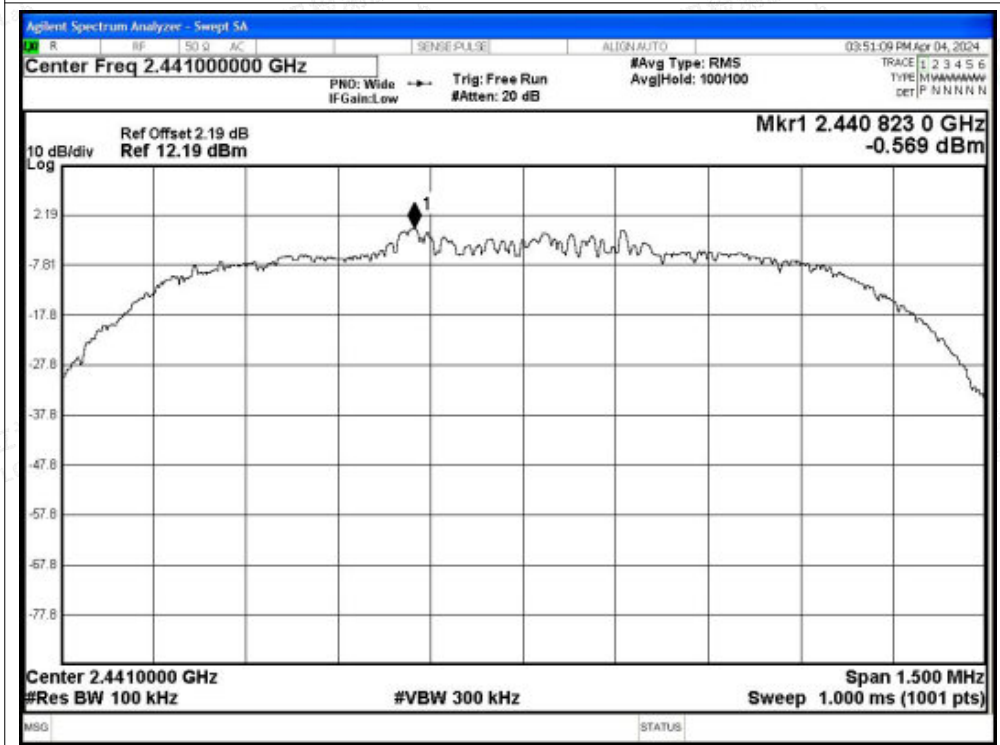


Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Emission

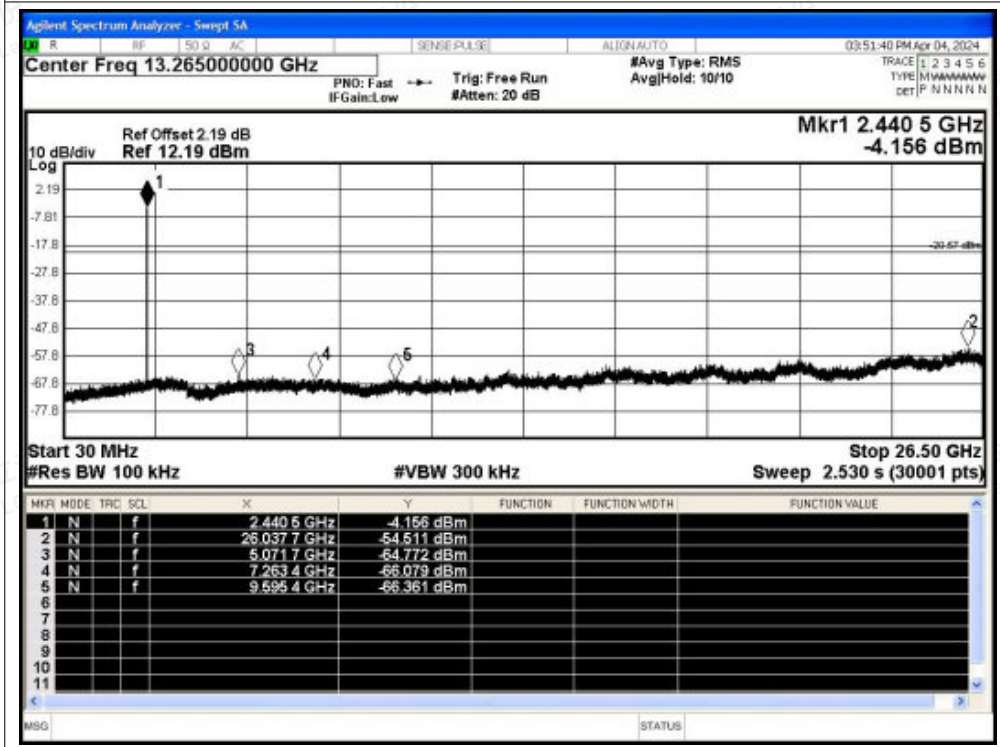




Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Ref

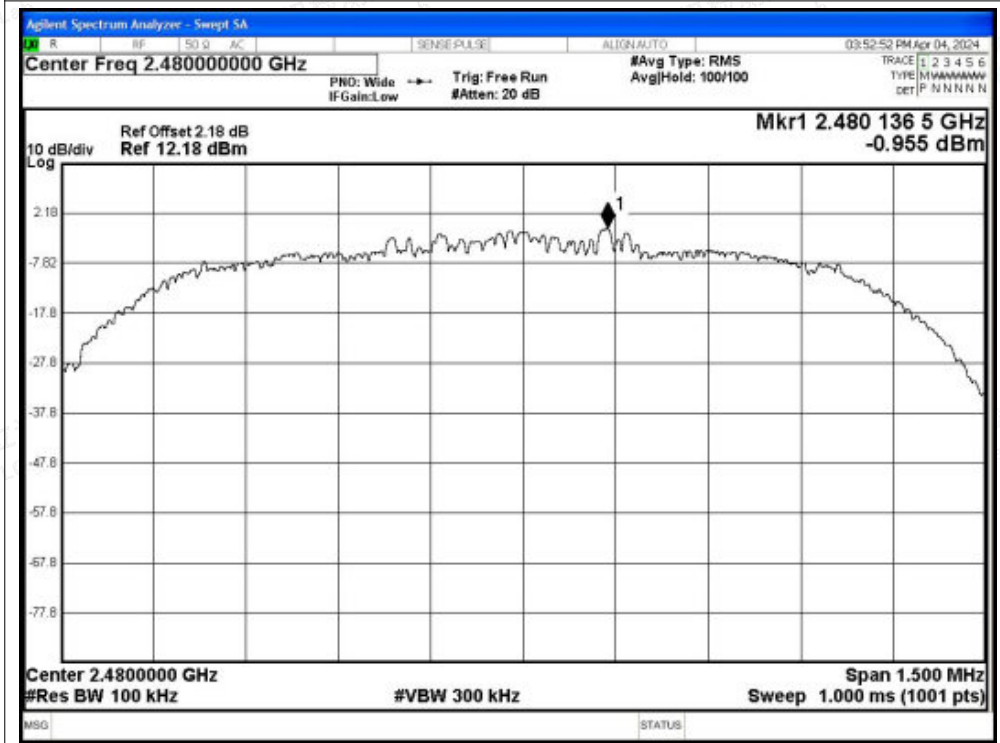


Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Emission

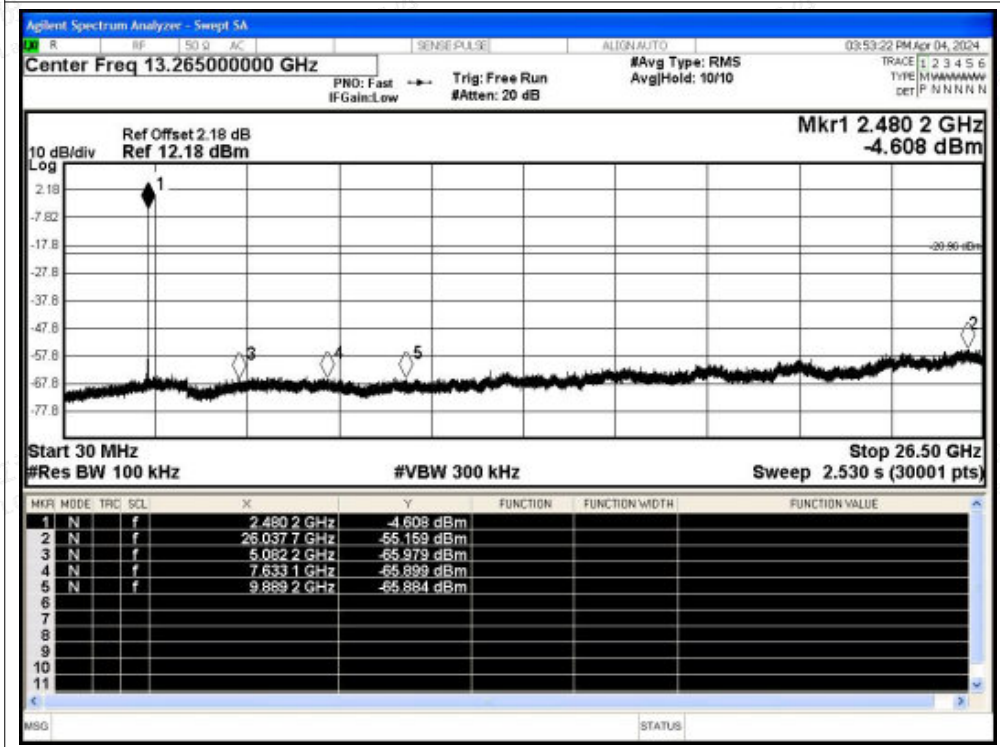




Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Ref

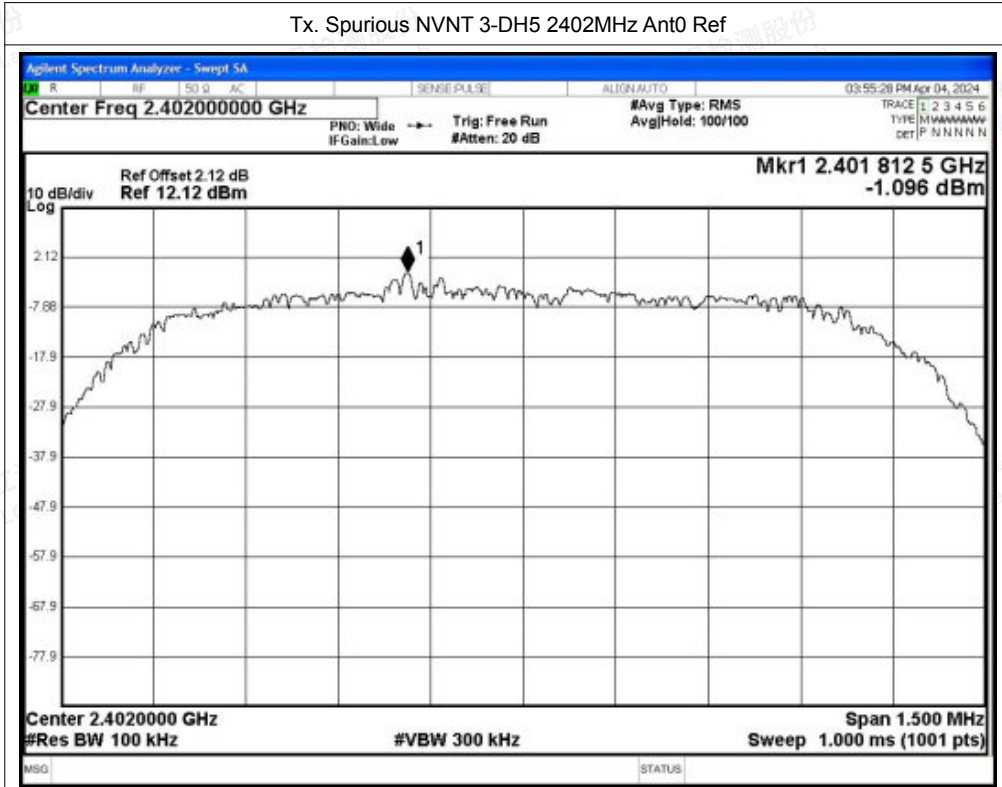


Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Emission

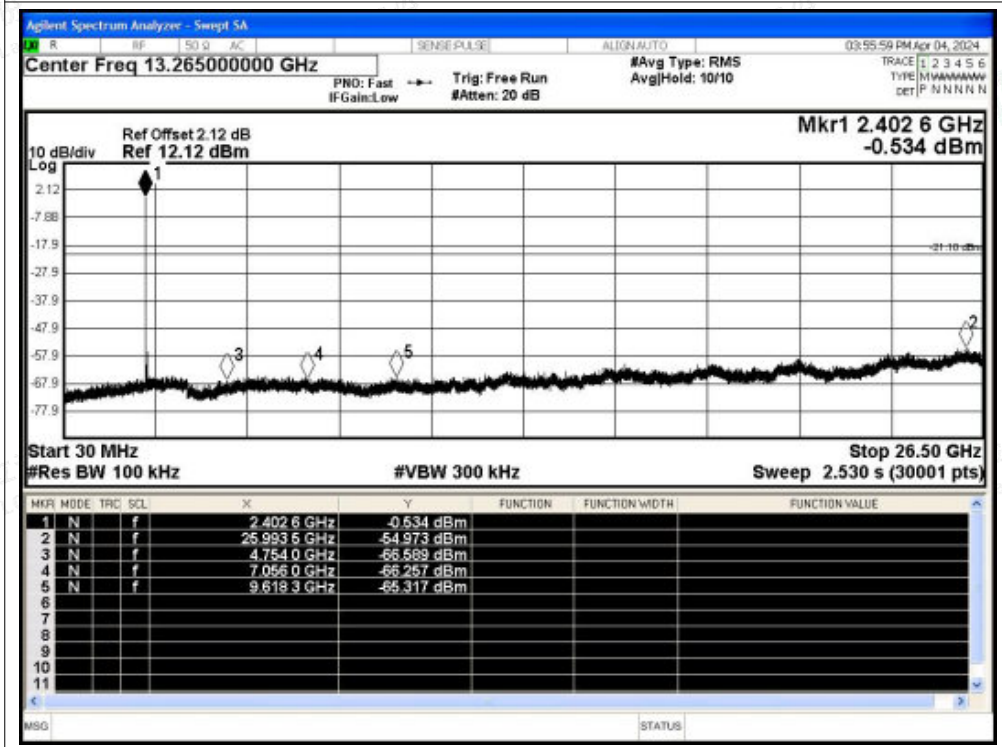




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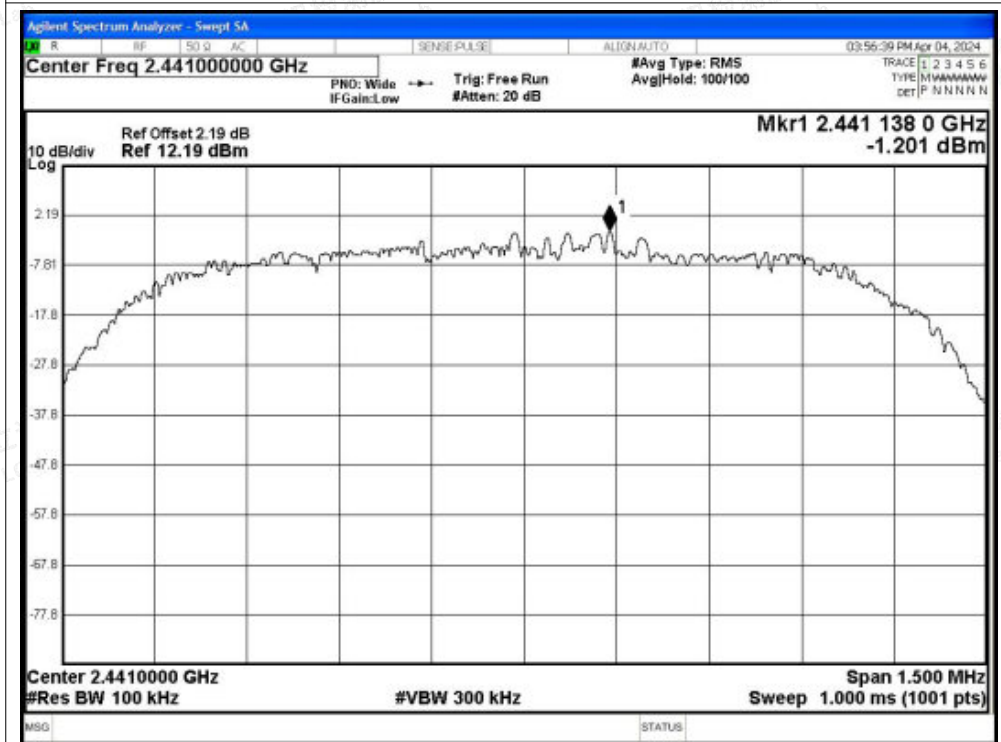


Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Emission

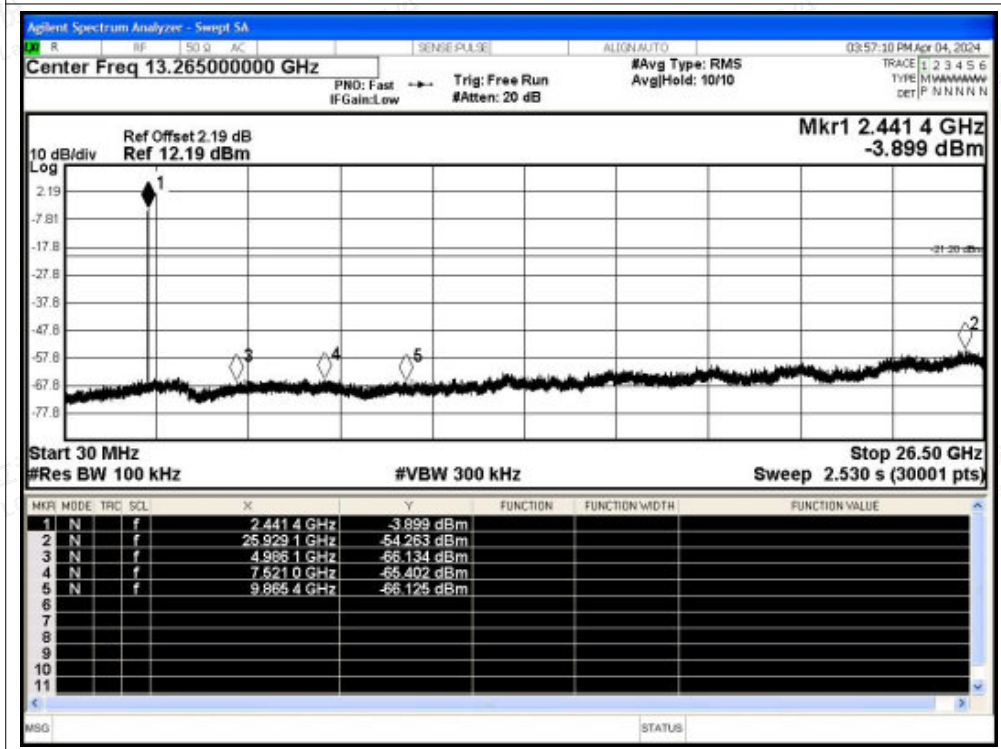




Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Ref

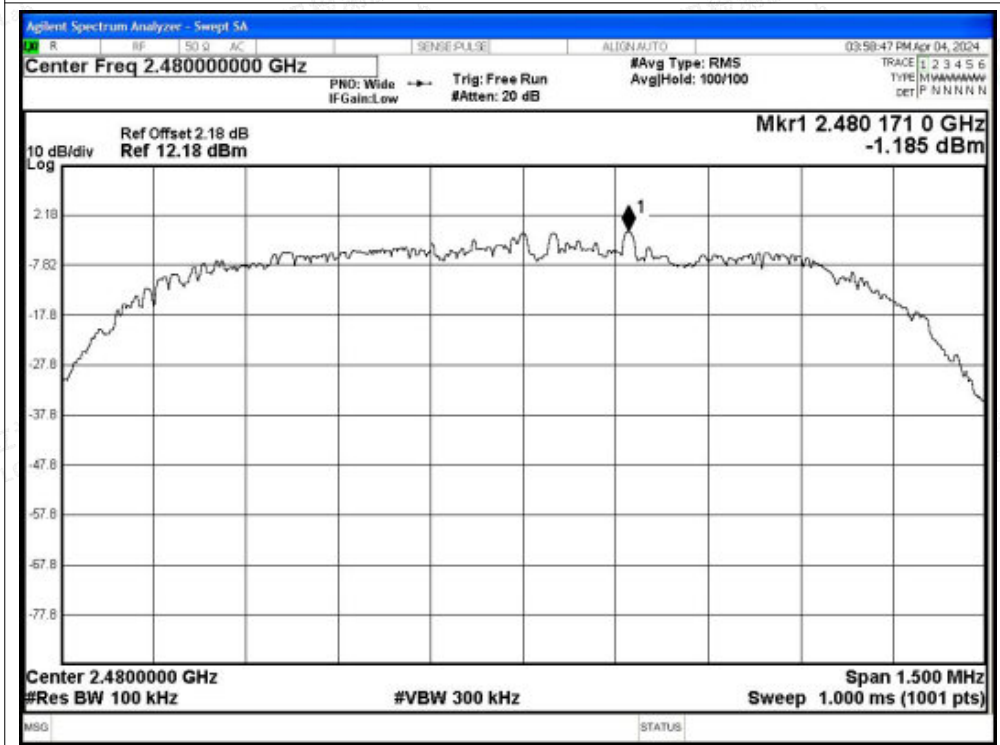


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

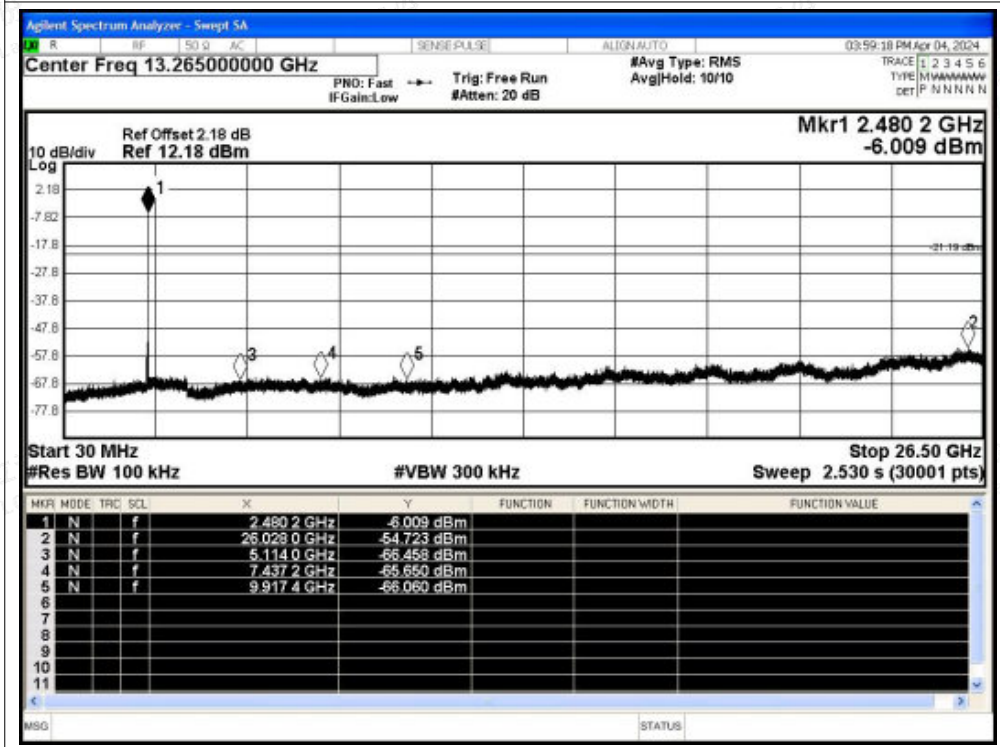




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission





A.8 Duty Cycle

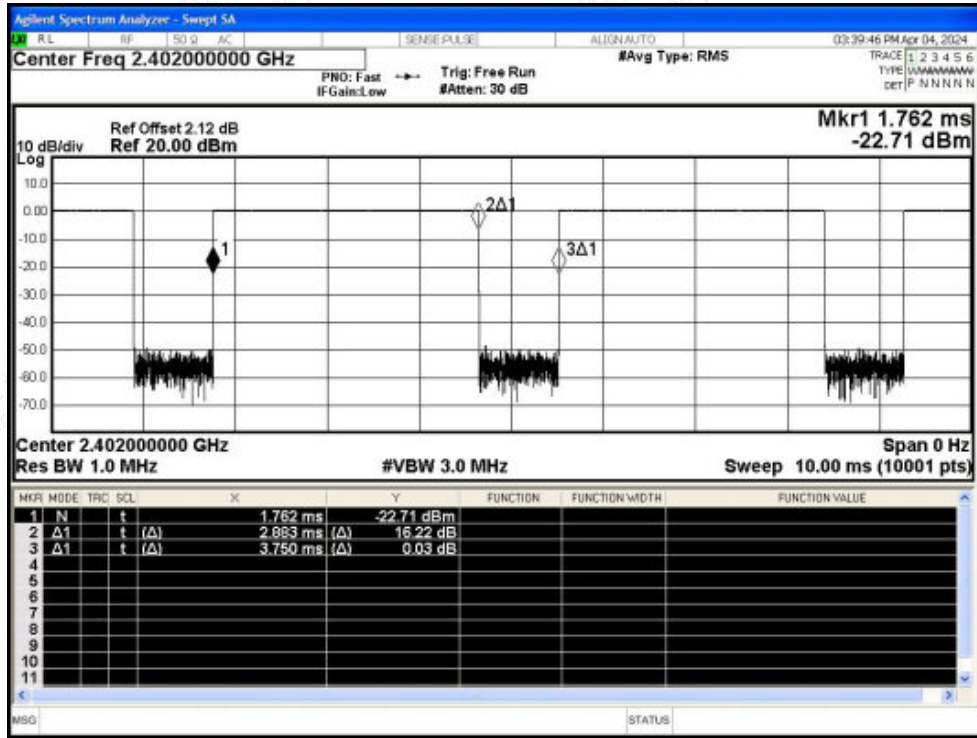
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant0	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant0	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant0	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant0	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant0	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant0	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant0	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant0	77.04	1.13	0.35
NVNT	3-DH5	2480	Ant0	77.01	1.13	0.35



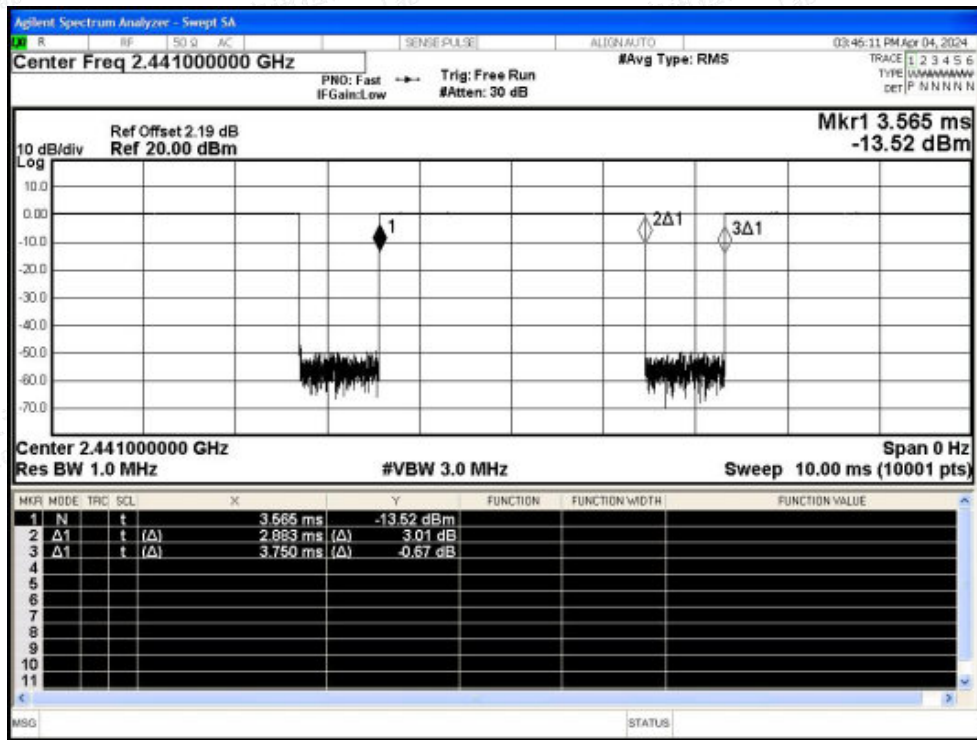


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant0

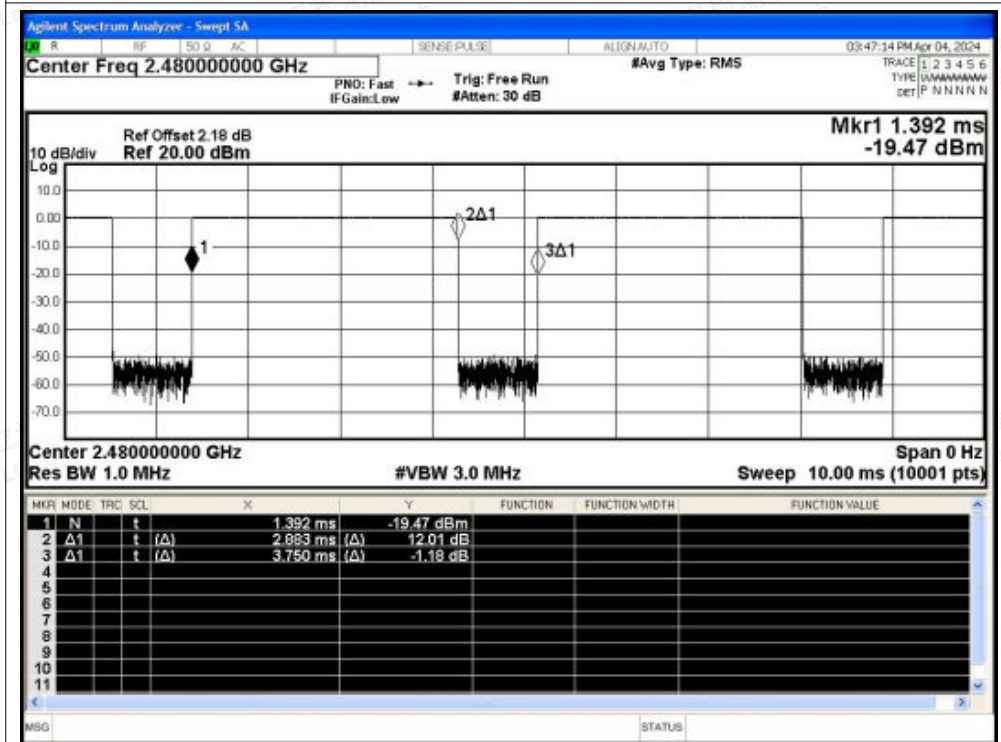


Duty Cycle NVNT 1-DH5 2441MHz Ant0

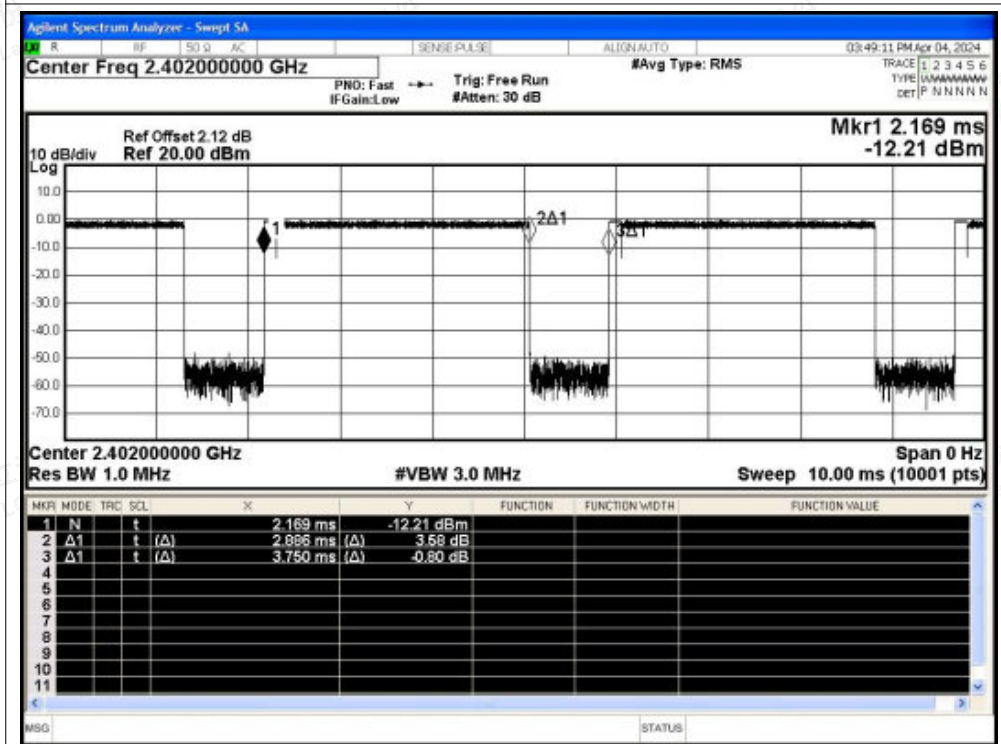




Duty Cycle NVNT 1-DH5 2480MHz Ant0

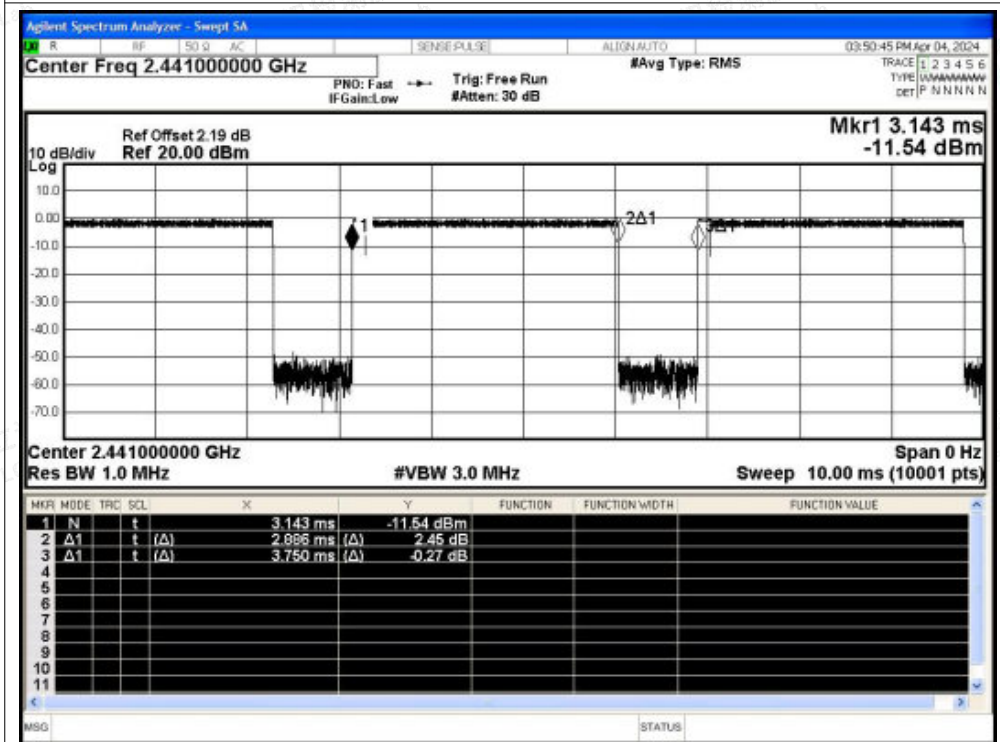


Duty Cycle NVNT 2-DH5 2402MHz Ant0

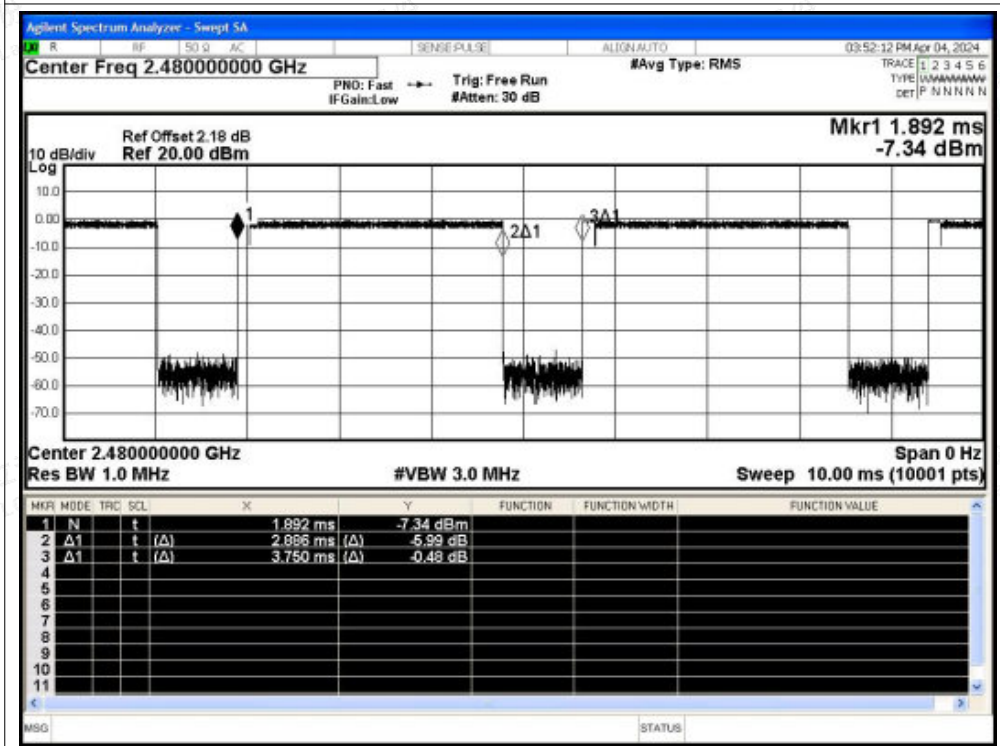




Duty Cycle NVNT 2-DH5 2441MHz Ant0

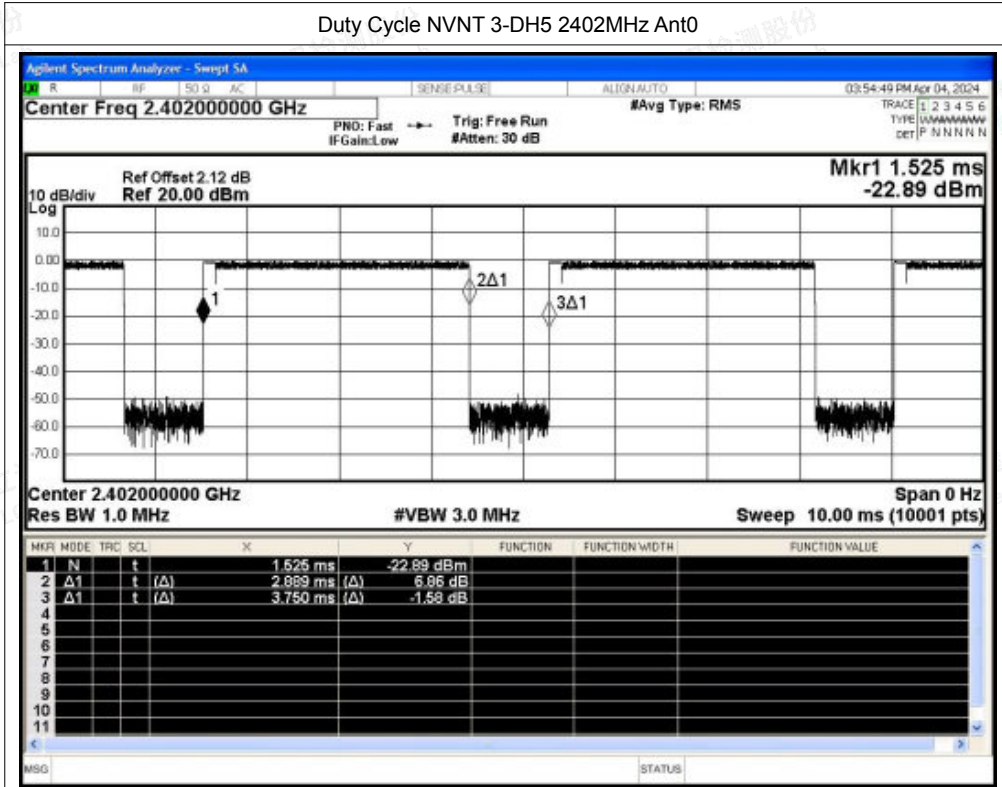


Duty Cycle NVNT 2-DH5 2480MHz Ant0

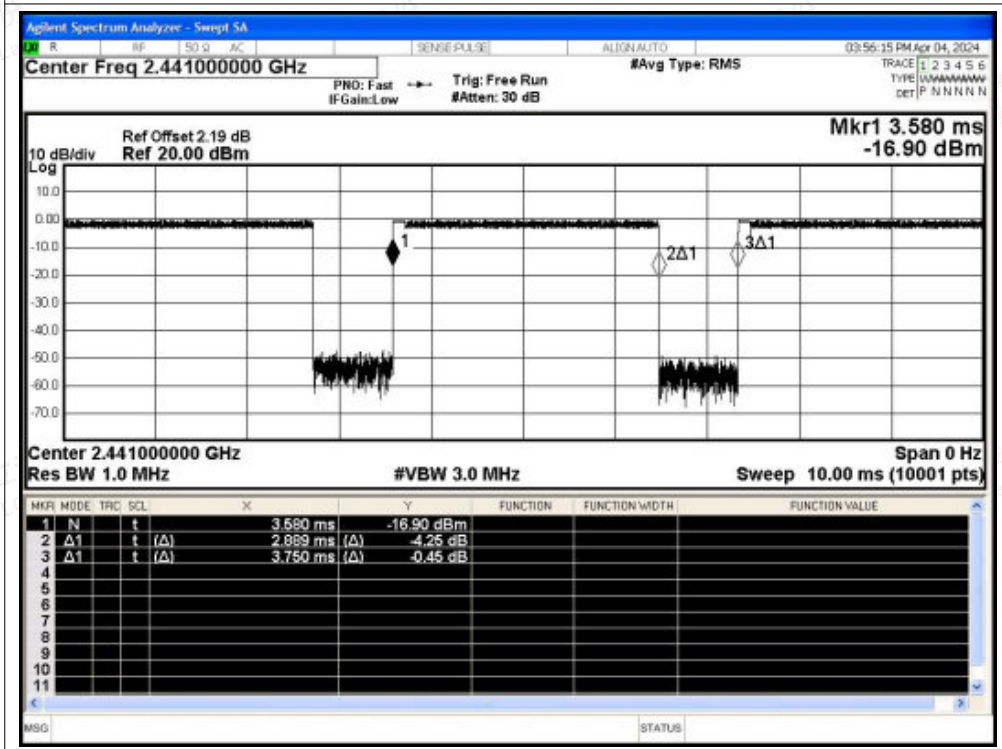


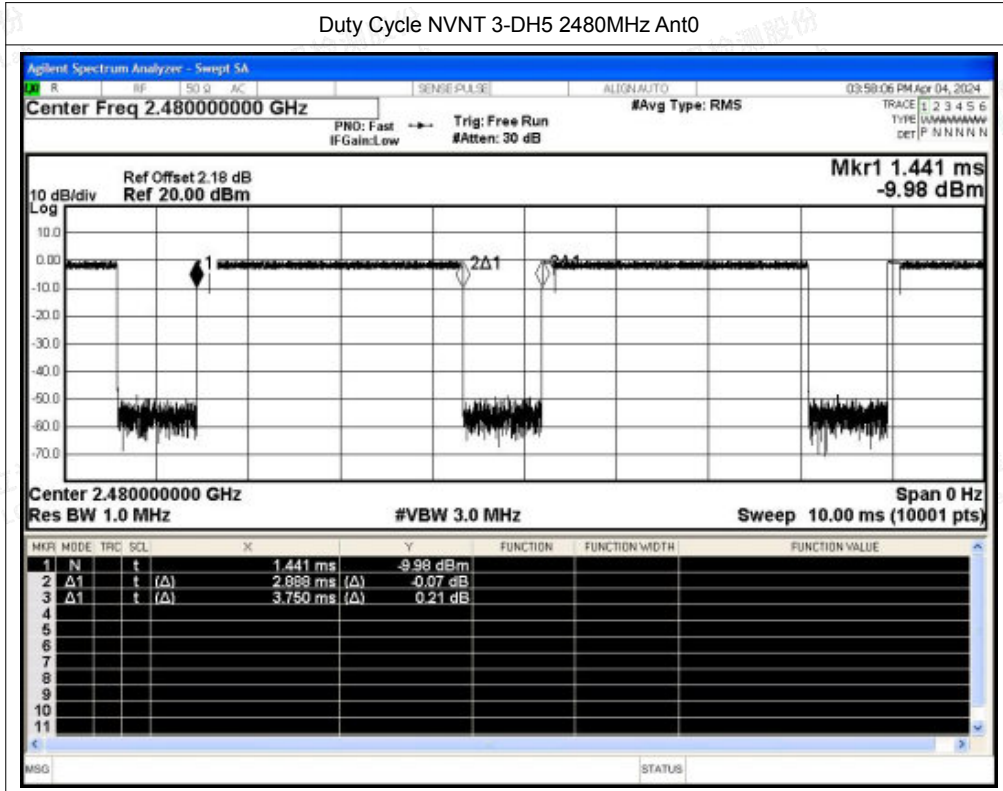


Duty Cycle NVNT 3-DH5 2402MHz Ant0



Duty Cycle NVNT 3-DH5 2441MHz Ant0







A.9 Restrict Band

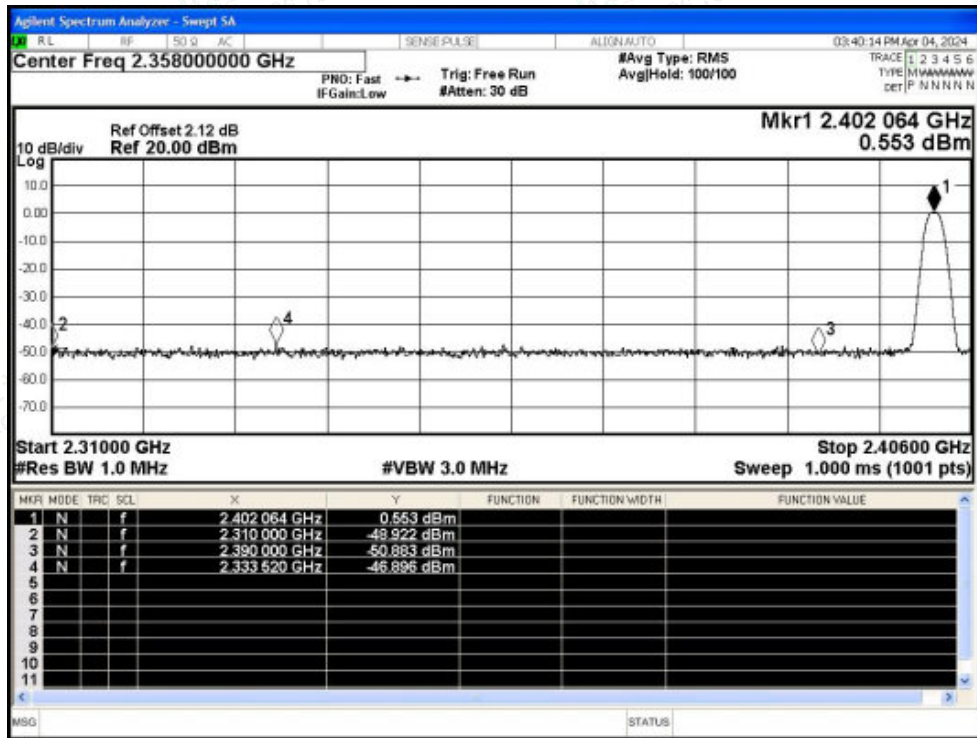
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-48.92	4.66	-	51.00	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-58.35	4.66	1.14	42.71	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2333.52	-46.9	4.66	-	53.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2367.696	-57.42	4.66	1.14	43.64	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-50.88	4.66	-	49.04	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-58.24	4.66	1.14	42.82	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-48.61	4.66	-	51.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-57.48	4.66	1.14	43.58	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2494.48	-45.66	4.66	-	54.26	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2487.424	-56.92	4.66	1.14	44.14	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-48.53	4.66	-	51.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.71	4.66	1.14	43.35	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-50.18	4.66	-	49.74	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-58.75	4.66	1.14	42.31	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2366.16	-47.61	4.66	-	52.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2385.648	-57.65	4.66	1.14	43.41	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-48.78	4.66	-	51.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-58.06	4.66	1.14	43.00	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-49.44	4.66	-	50.48	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-57.53	4.66	1.14	43.53	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2492.152	-46.67	4.66	-	53.25	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2490.328	-56.93	4.66	1.14	44.13	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-50.33	4.66	-	49.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-57.8	4.66	1.14	43.26	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-50.93	4.66	-	48.99	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-58.49	4.66	1.13	42.56	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2376.528	-47.77	4.66	-	52.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2387.76	-57.54	4.66	1.13	43.51	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-49.63	4.66	-	50.29	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-57.74	4.66	1.13	43.31	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-48.53	4.66	-	51.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-57.7	4.66	1.13	43.35	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2486.8	-46.52	4.66	-	53.40	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2495.488	-57.01	4.66	1.13	44.04	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-50.26	4.66	-	49.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-57.32	4.66	1.13	43.73	Average	54	Pass



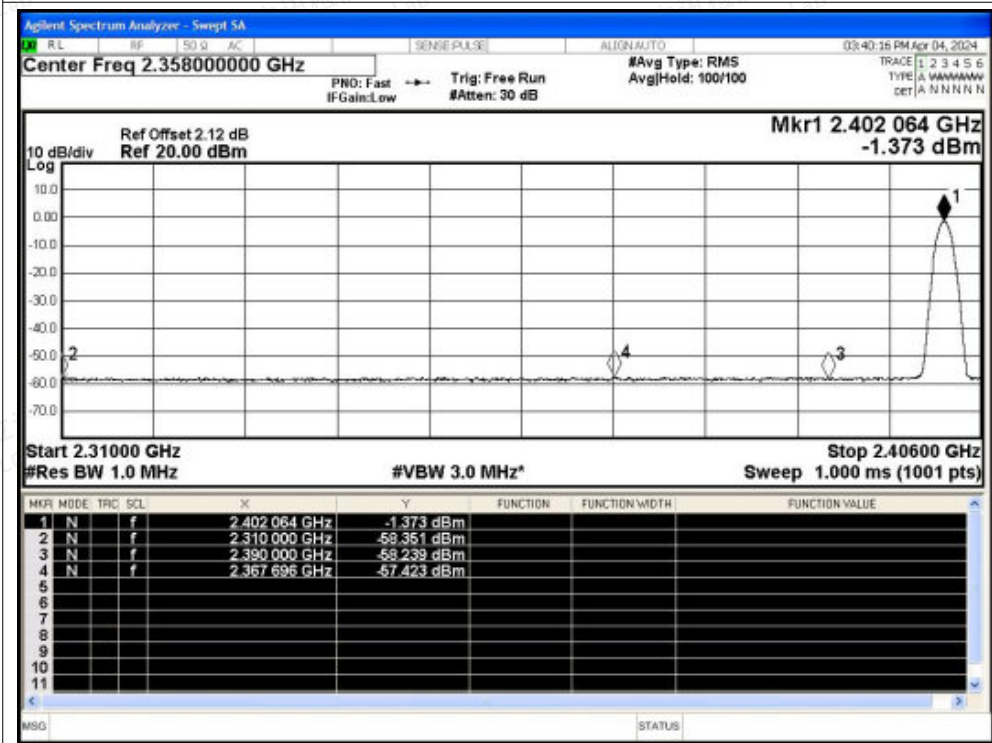


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak

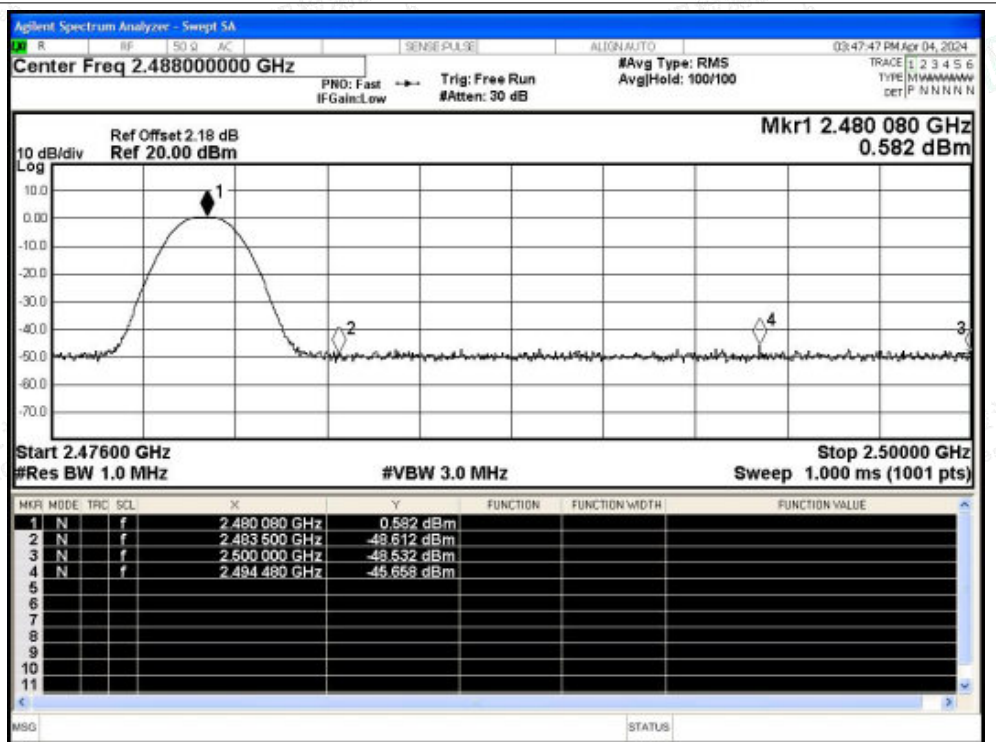


Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average

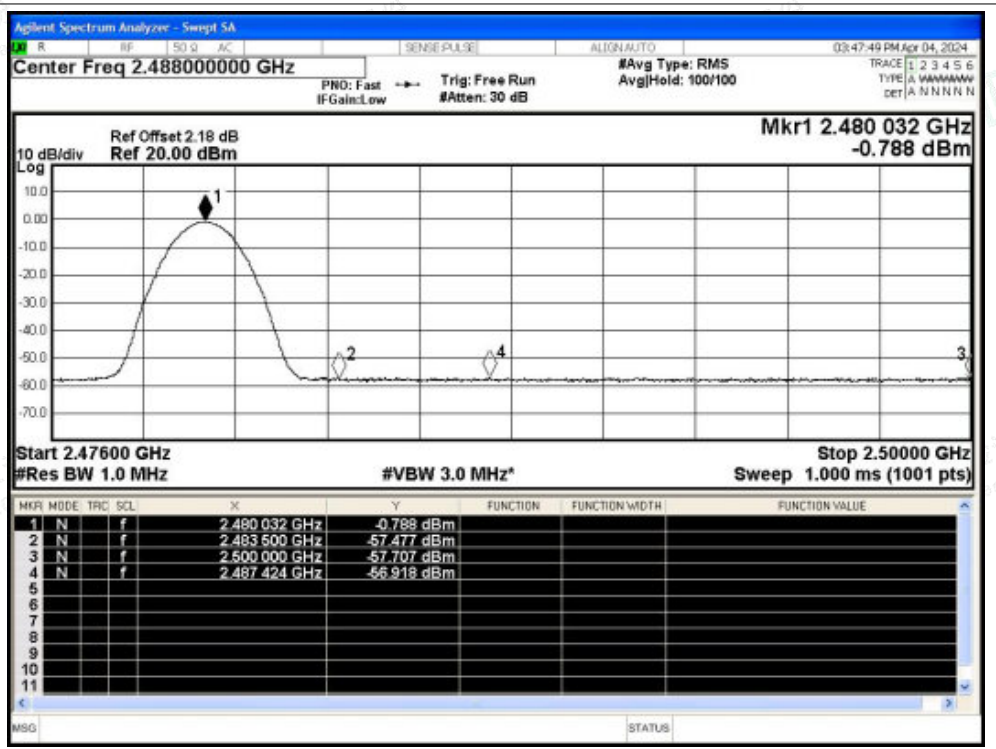




Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Peak

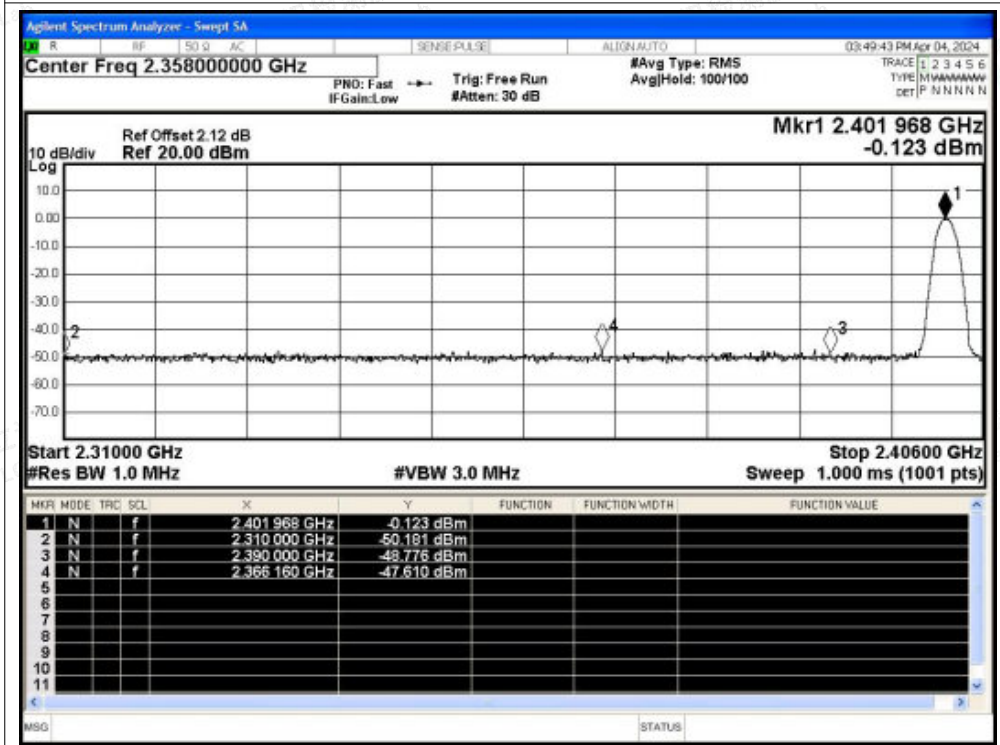


Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Average

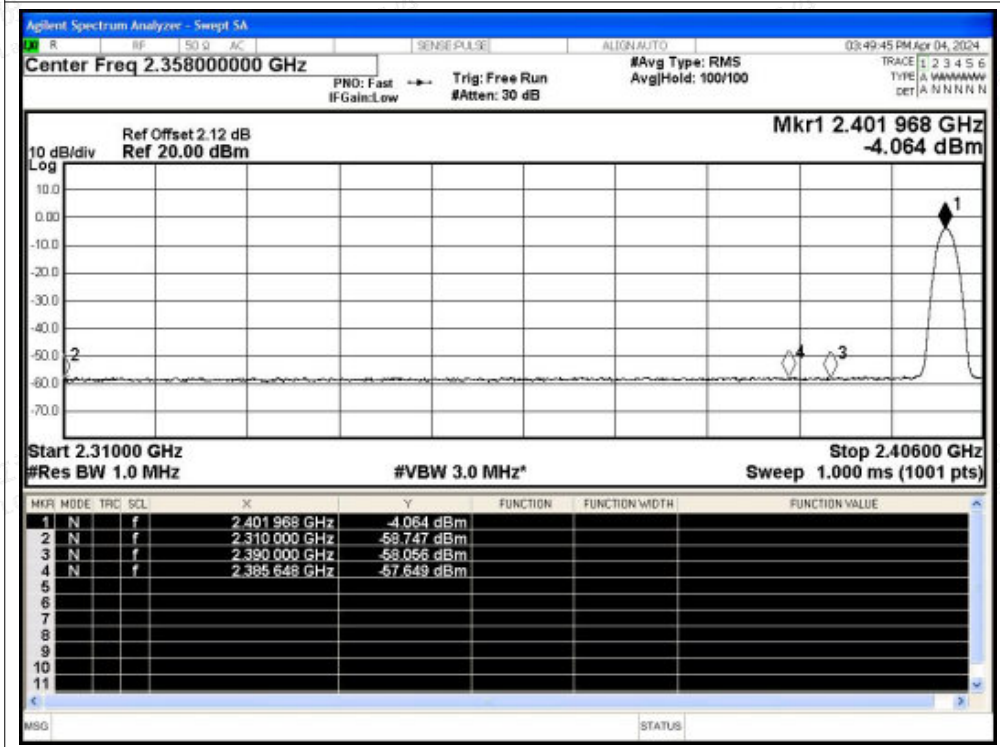




Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Peak

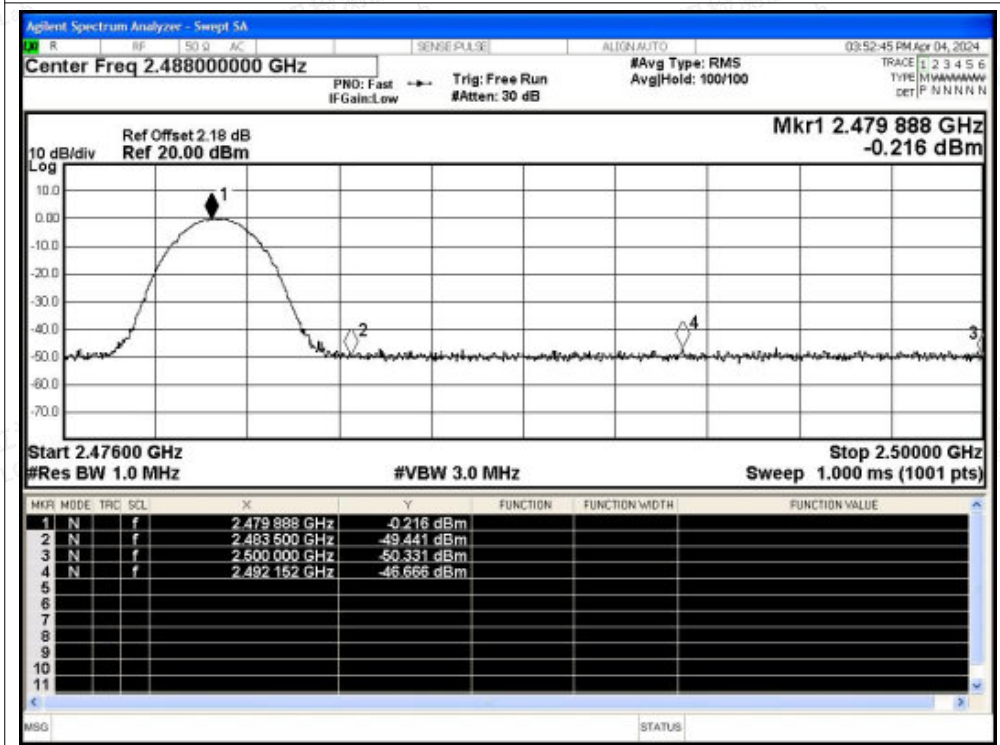


Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Average

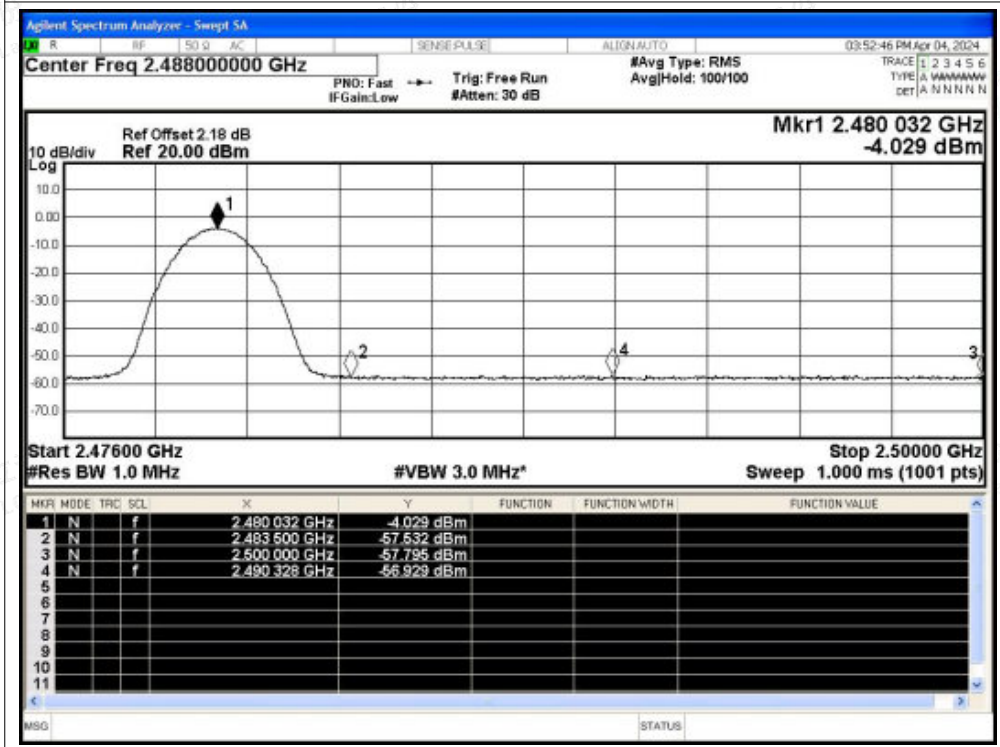




Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Peak

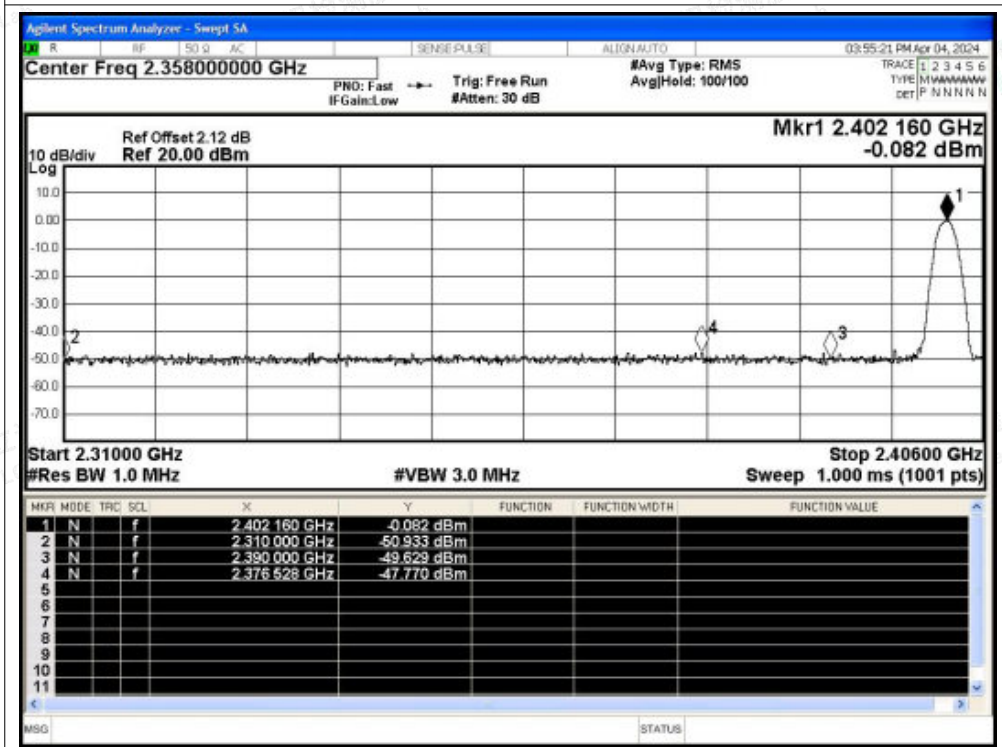


Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Average

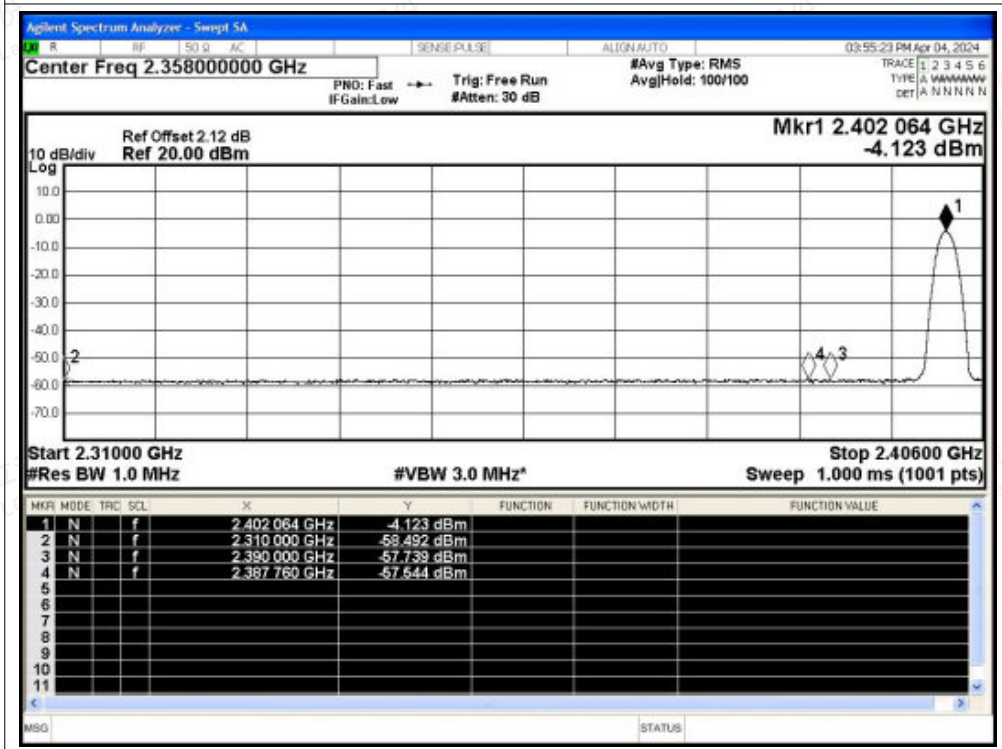




Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Peak

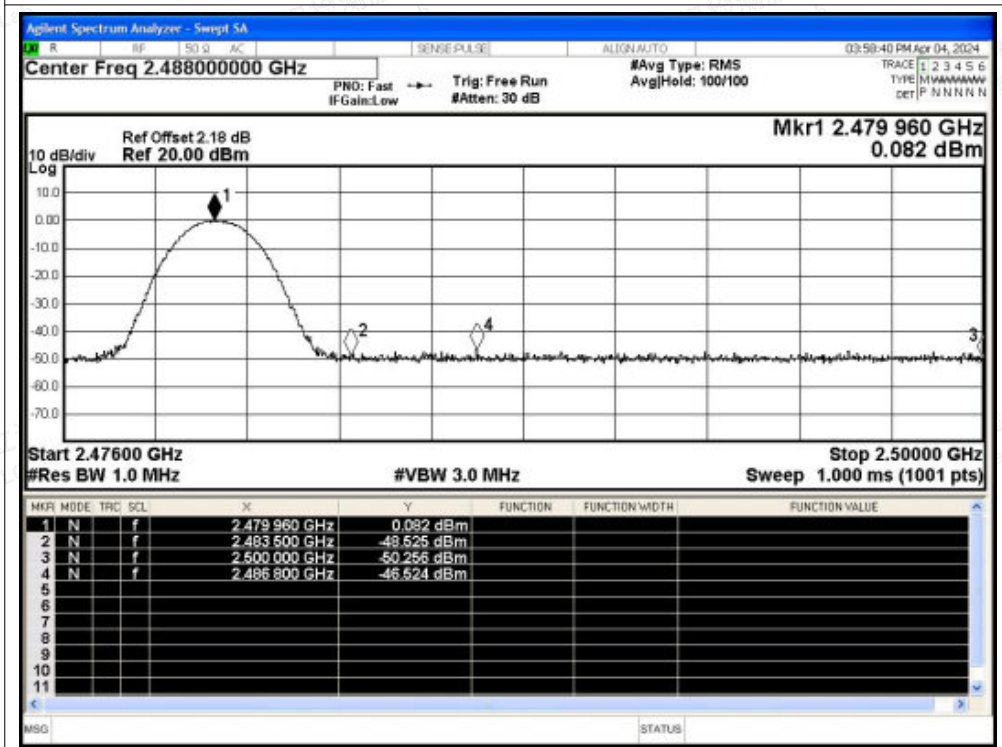


Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Average

