



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TURNTABLE

Test Model: CR6045A

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0kPa
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	1-DH5	2402	Ant1	0.992	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.02	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.971	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.306	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

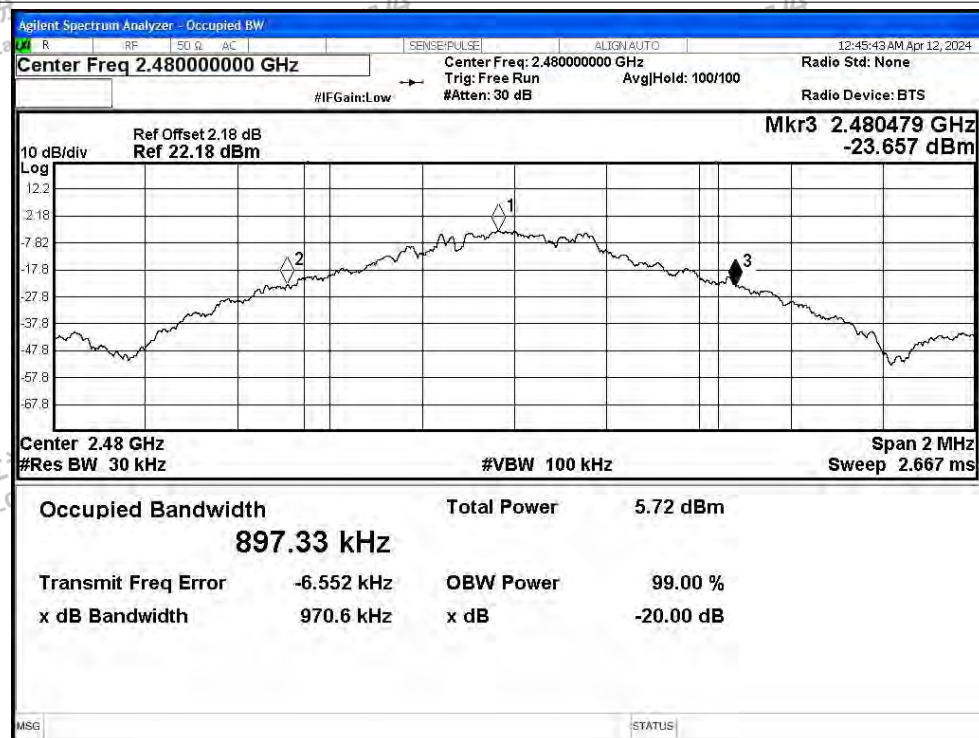


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

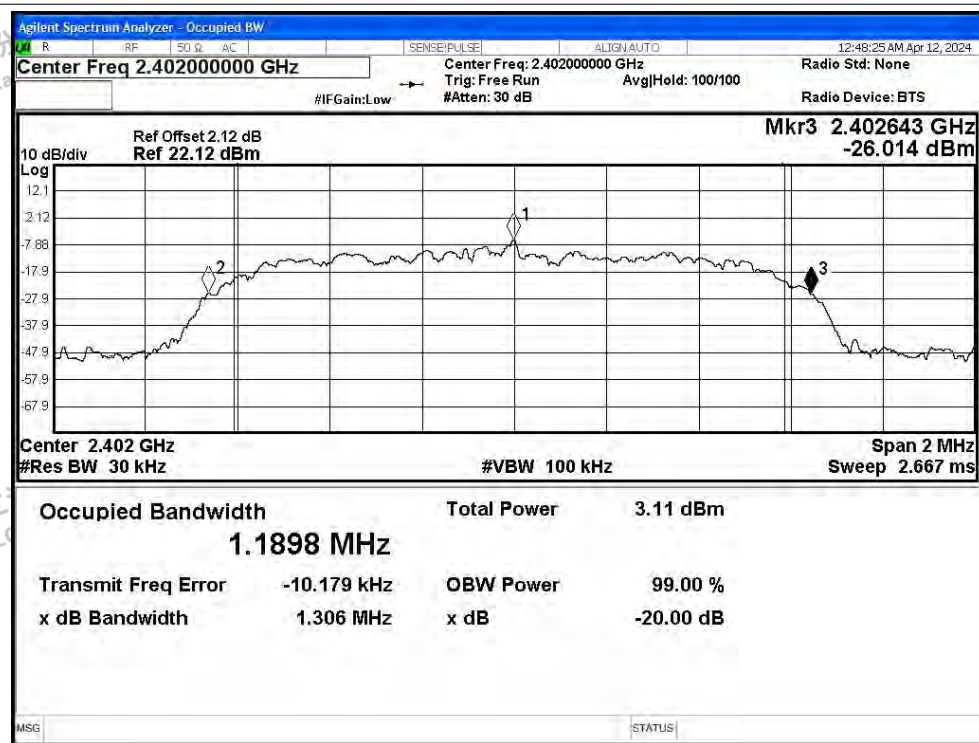




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

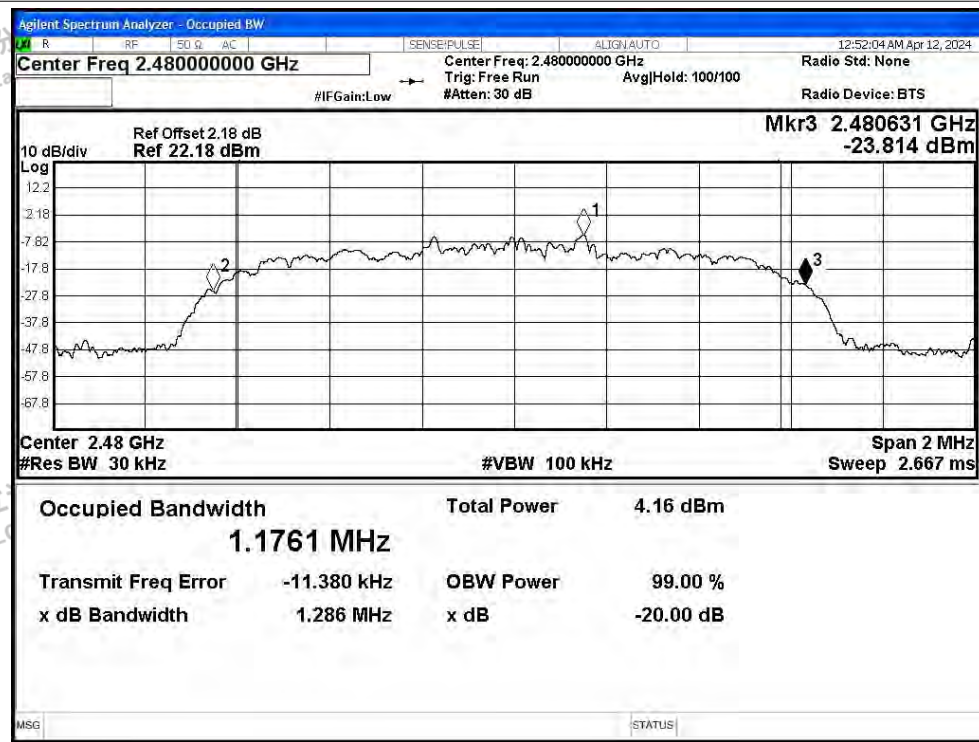




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

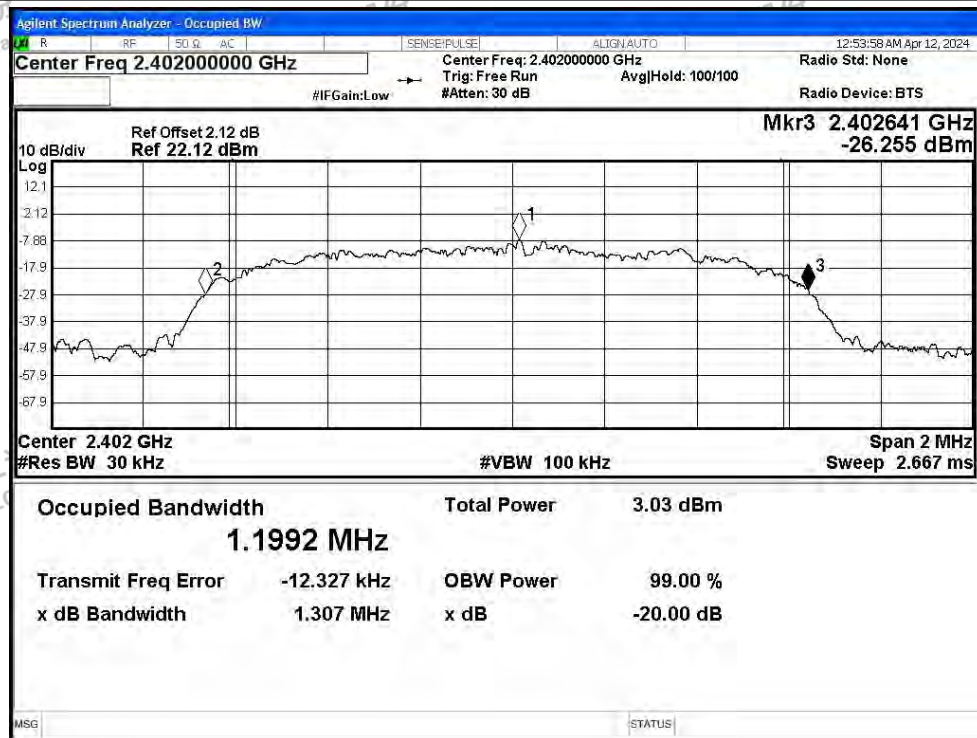


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

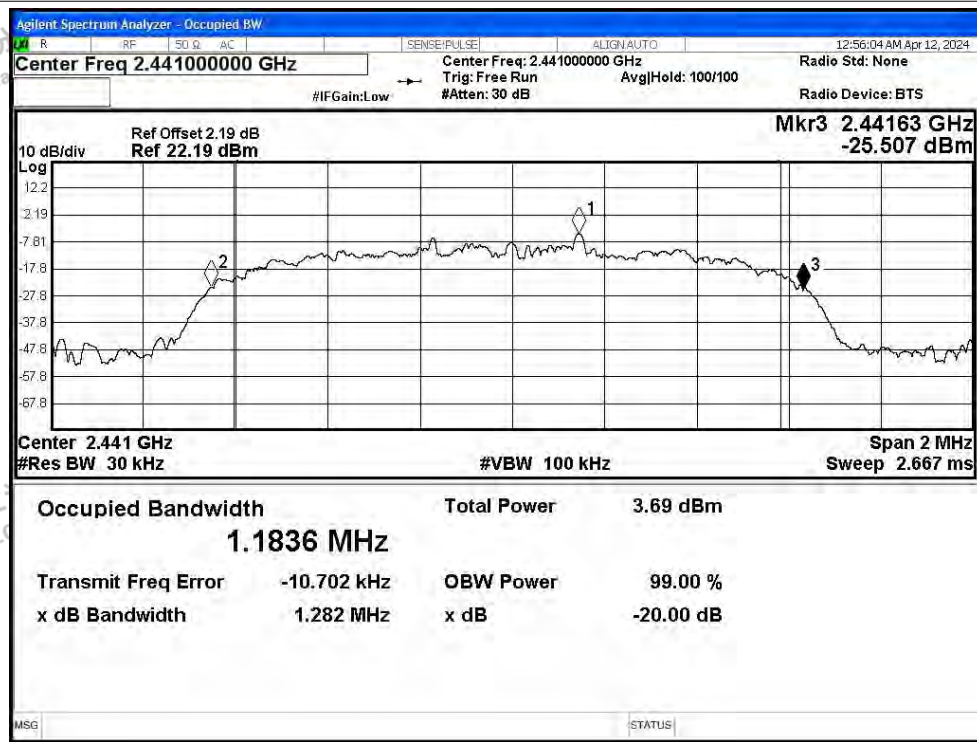




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

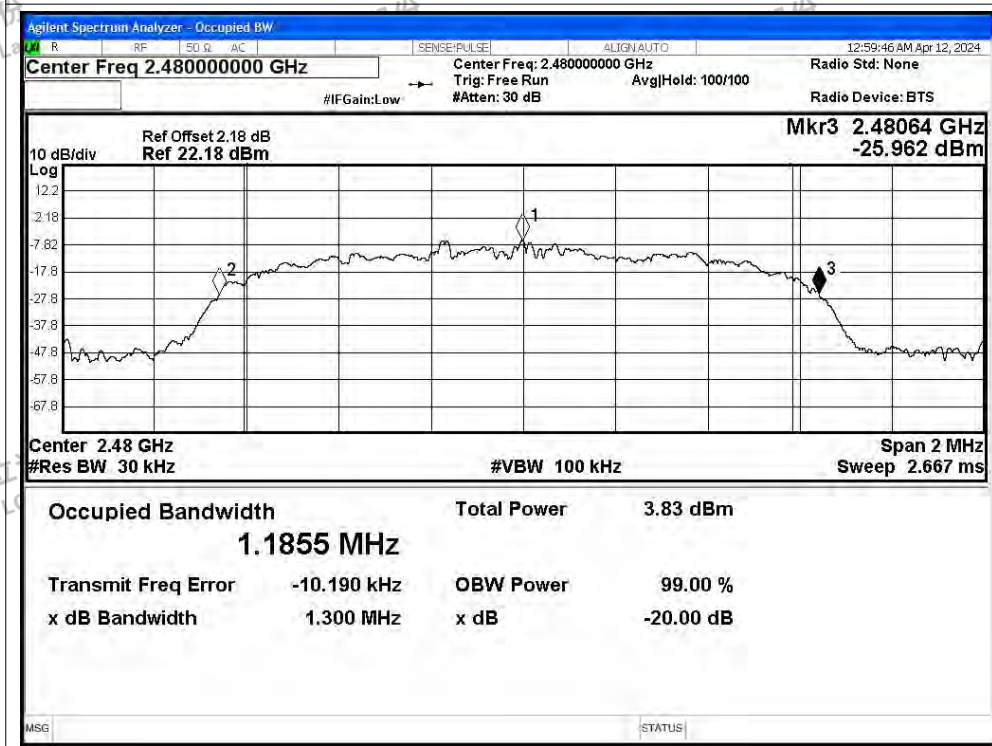


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





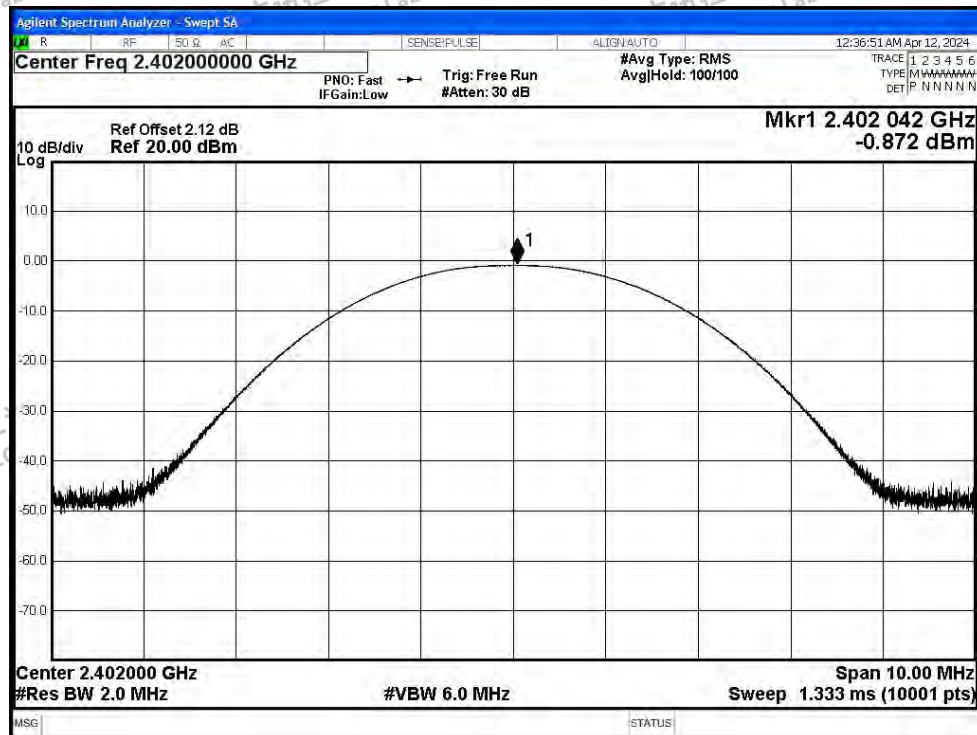
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.87	21	Pass
NVNT	1-DH5	2441	Ant1	-0.37	21	Pass
NVNT	1-DH5	2480	Ant1	-0.38	21	Pass
NVNT	2-DH5	2402	Ant1	-0.95	21	Pass
NVNT	2-DH5	2441	Ant1	-0.72	21	Pass
NVNT	2-DH5	2480	Ant1	-0.6	21	Pass
NVNT	3-DH5	2402	Ant1	-0.93	21	Pass
NVNT	3-DH5	2441	Ant1	-0.66	21	Pass
NVNT	3-DH5	2480	Ant1	-0.62	21	Pass

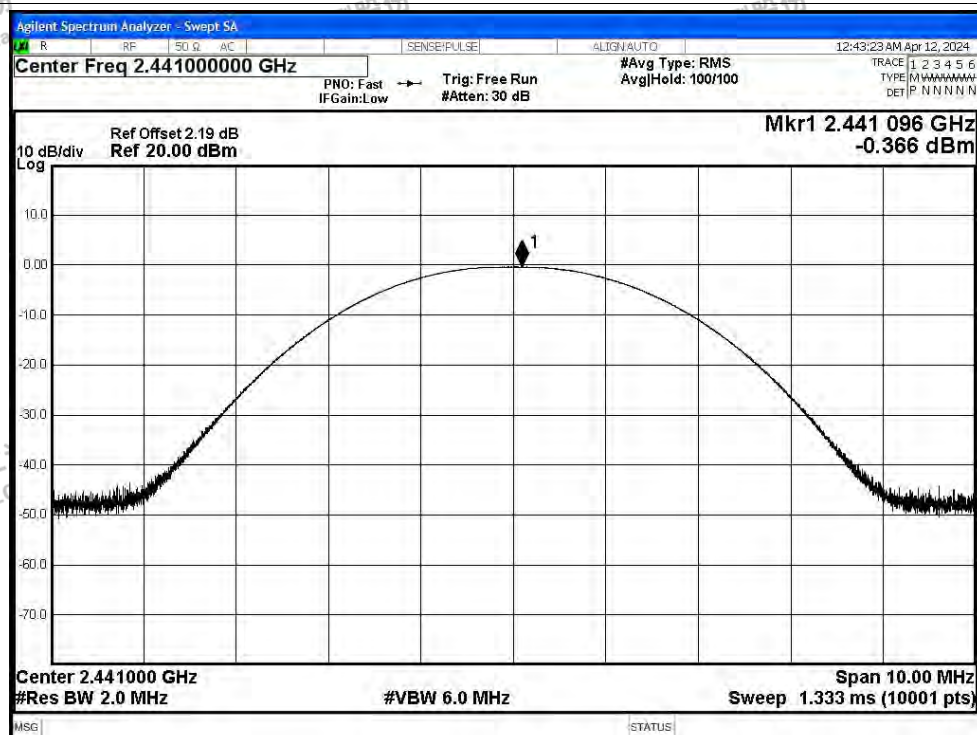


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

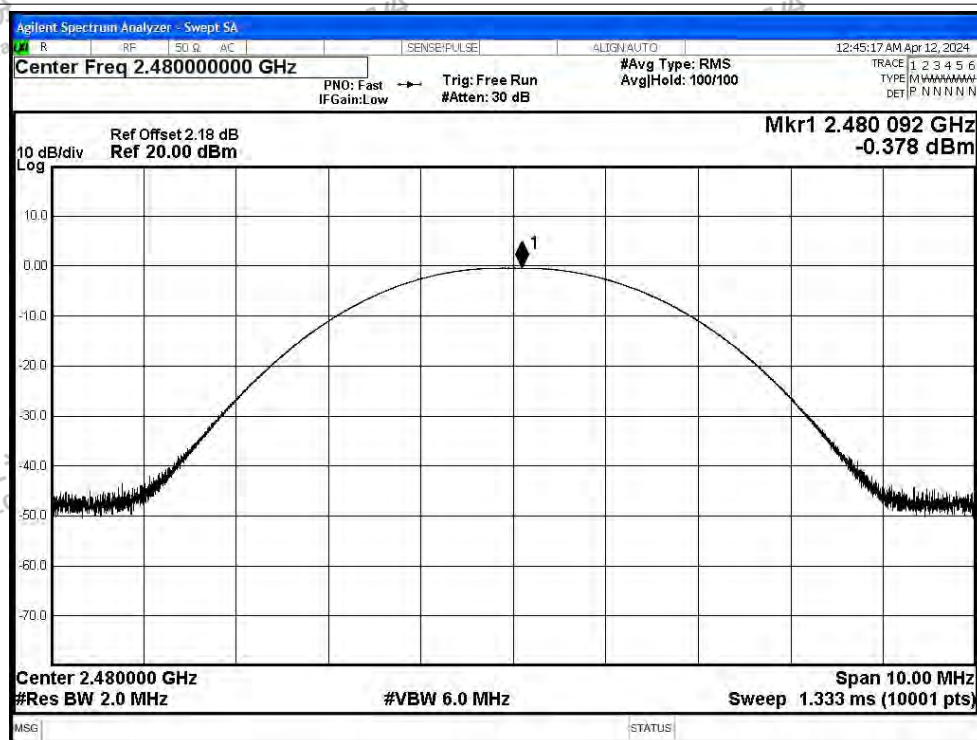


Power NVNT 1-DH5 2441MHz Ant1

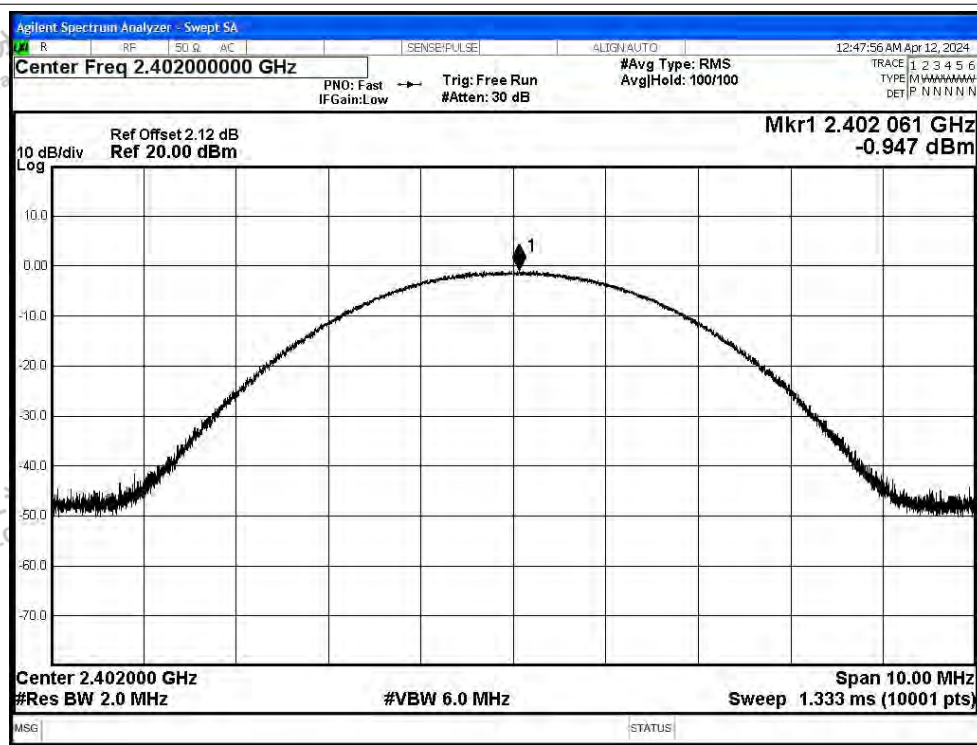




Power NVNT 1-DH5 2480MHz Ant1

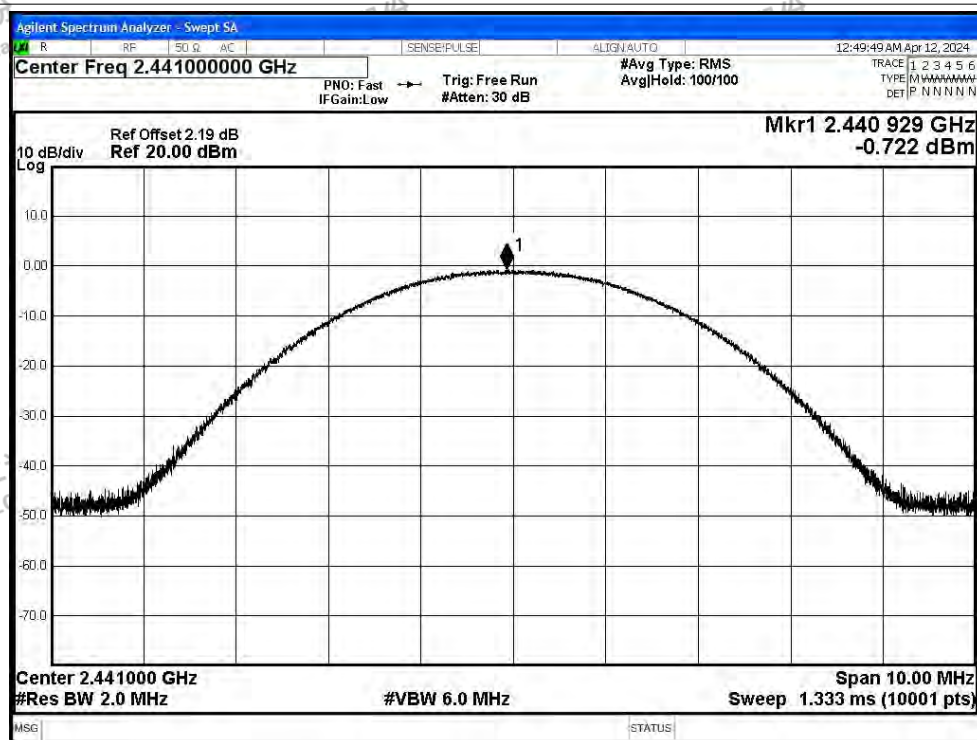


Power NVNT 2-DH5 2402MHz Ant1

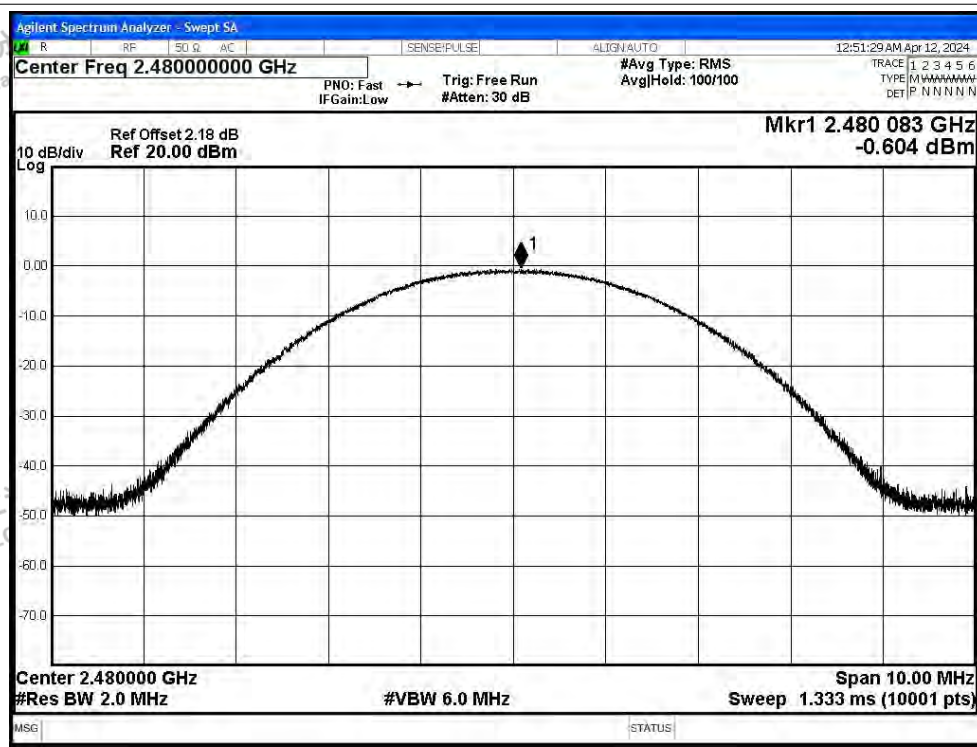




Power NVNT 2-DH5 2441MHz Ant1

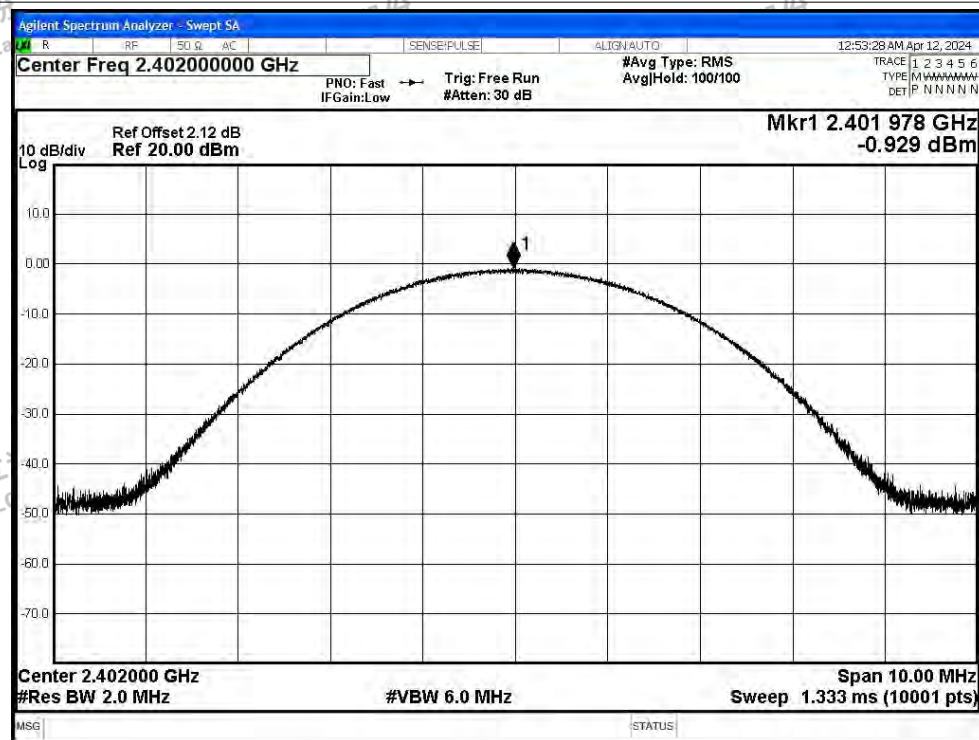


Power NVNT 2-DH5 2480MHz Ant1

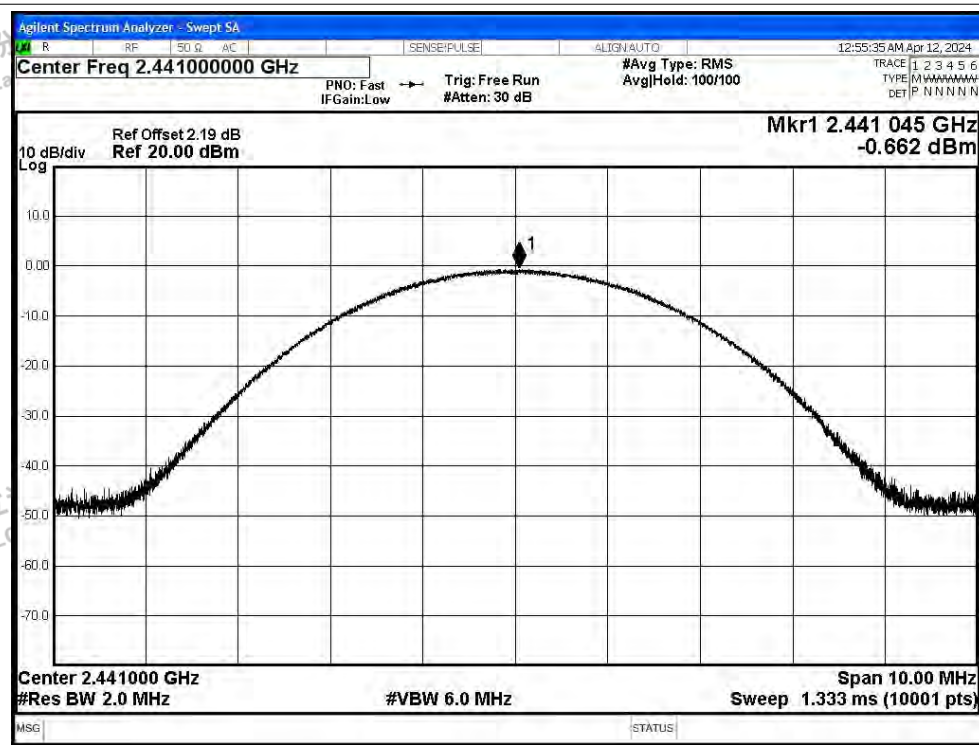


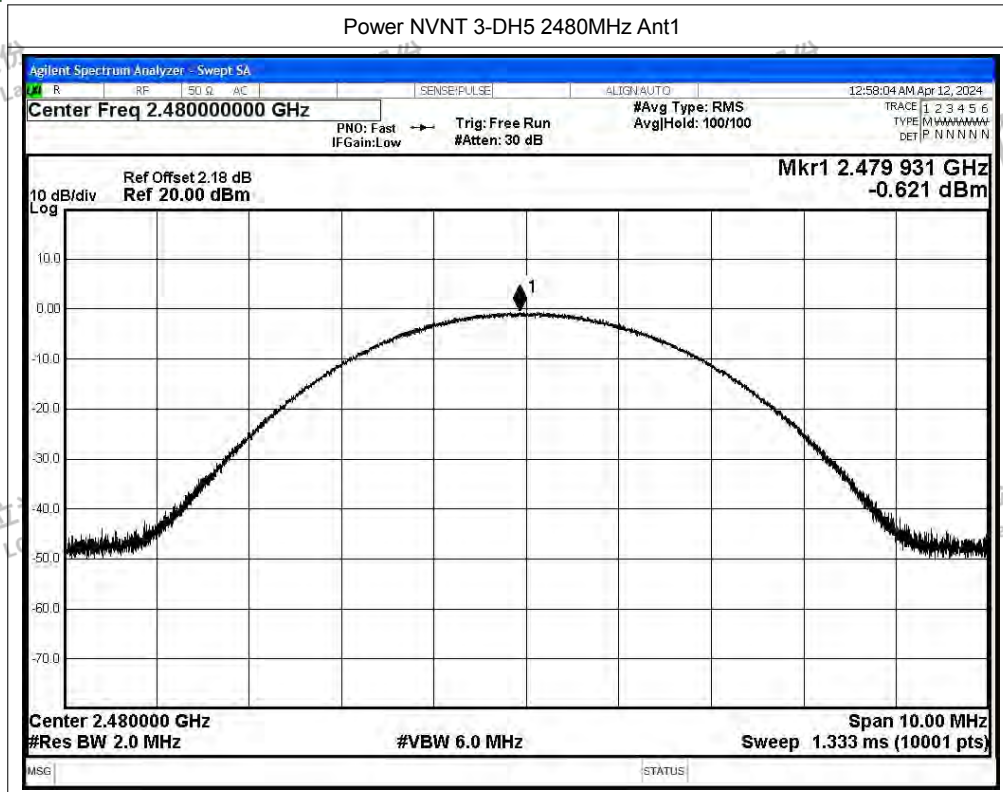


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

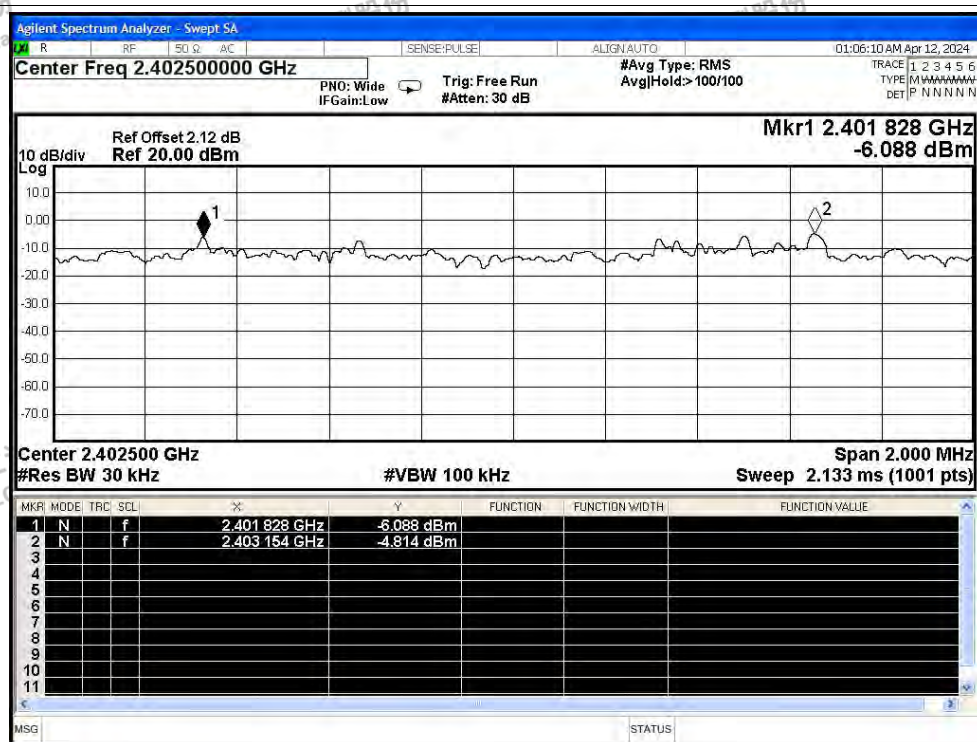
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.982	2402.964	0.982	0.680	Pass
NVNT	2-DH5	Ant1	2401.828	2403.154	1.326	0.871	Pass
NVNT	3-DH5	Ant1	2402.164	2403.148	0.984	0.871	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



STATUS

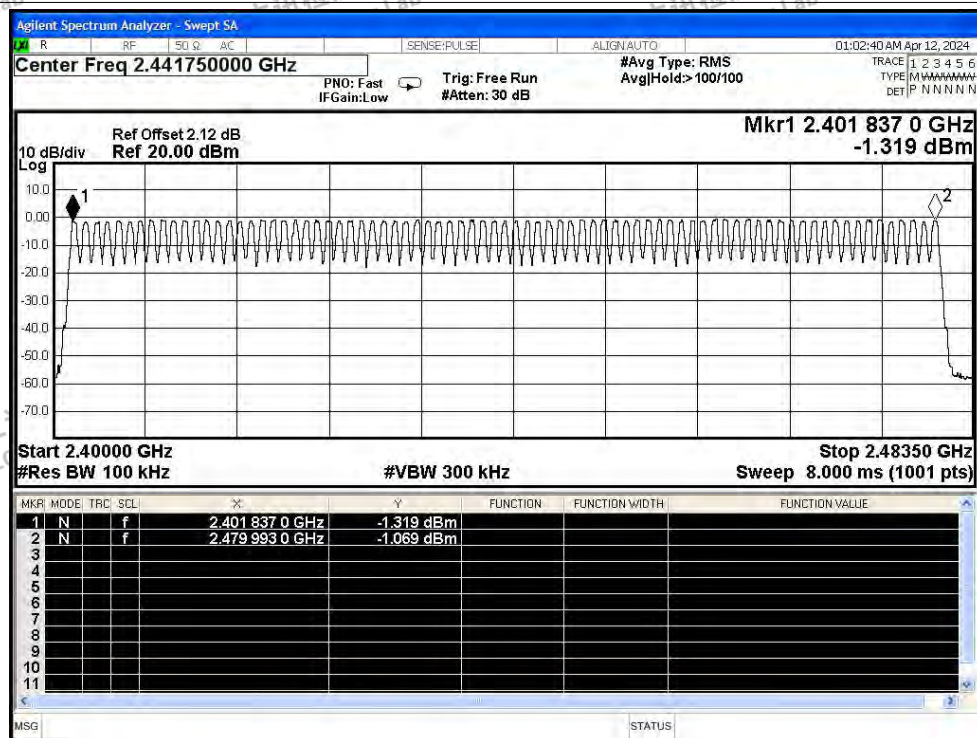


A.5 Number of Hopping Channel

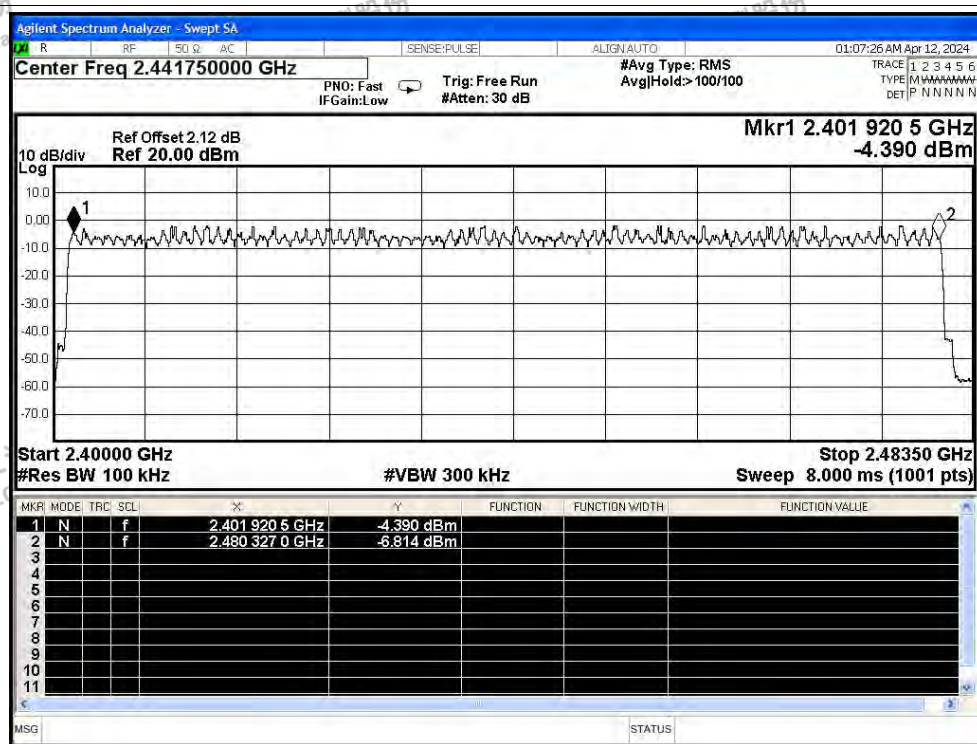
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





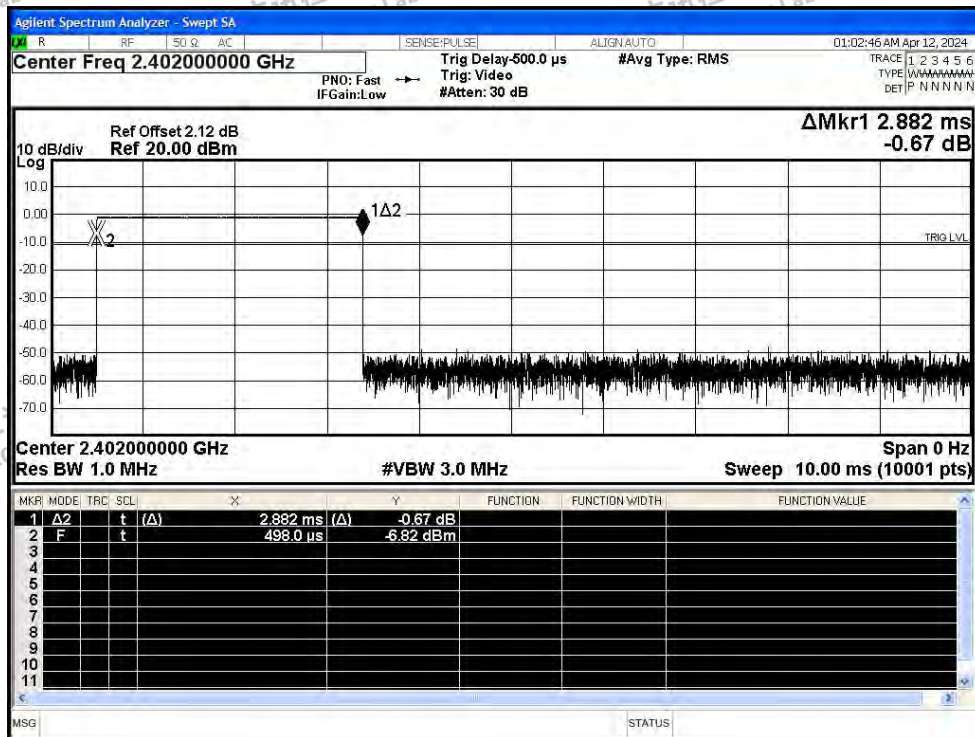
A.4 Dwell Time

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	291.082	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	305.81	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	300.144	104	31600	400	Pass

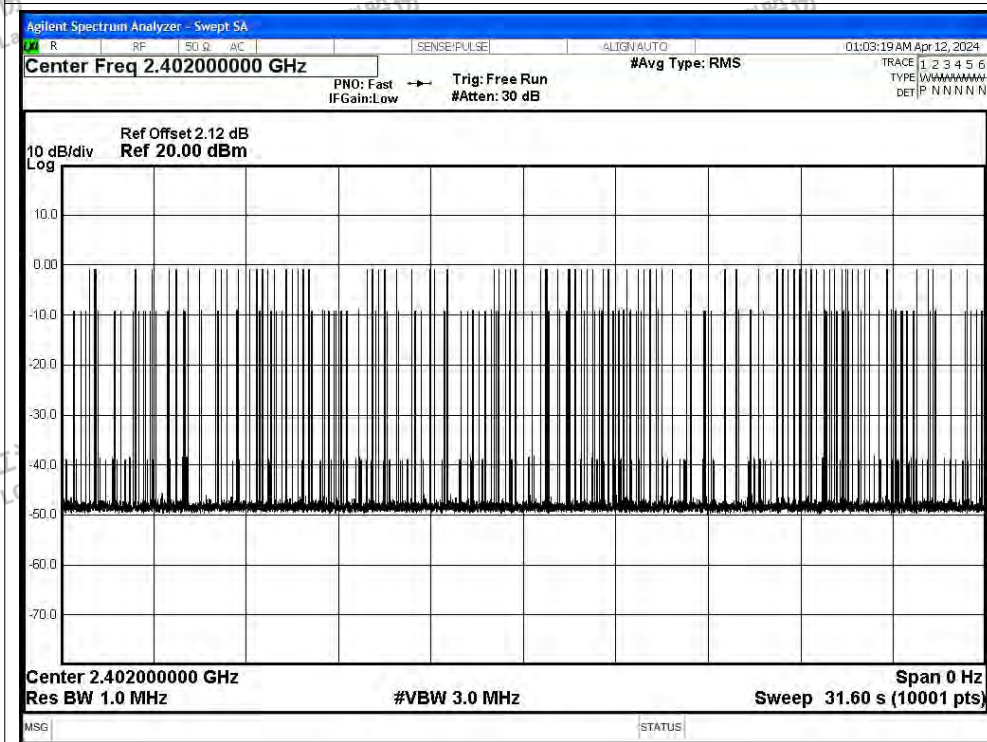


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

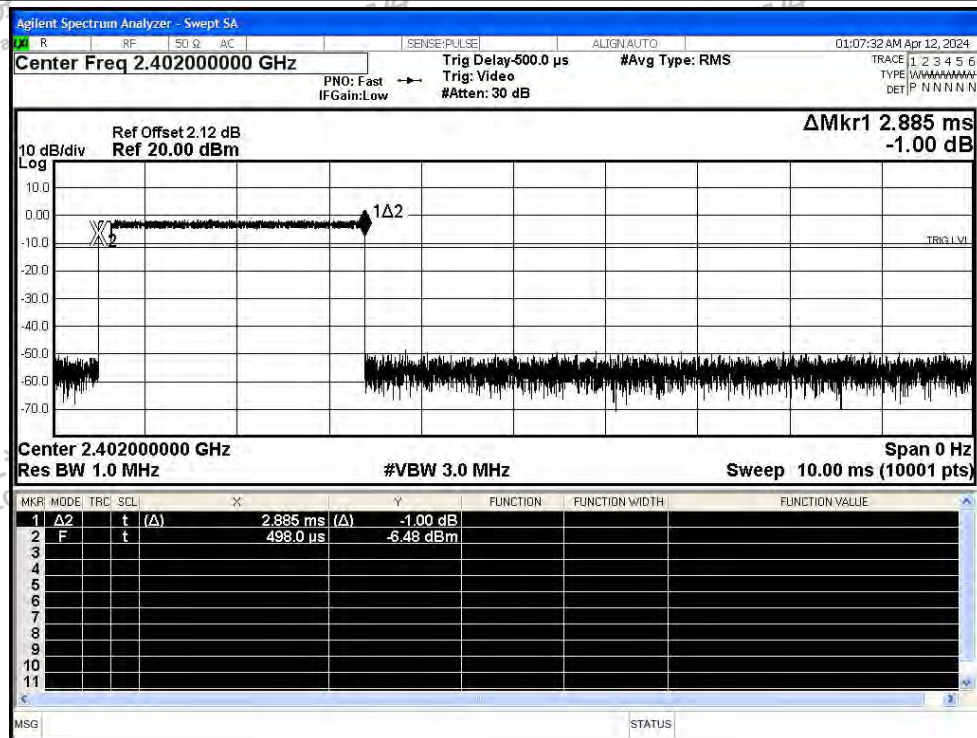


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

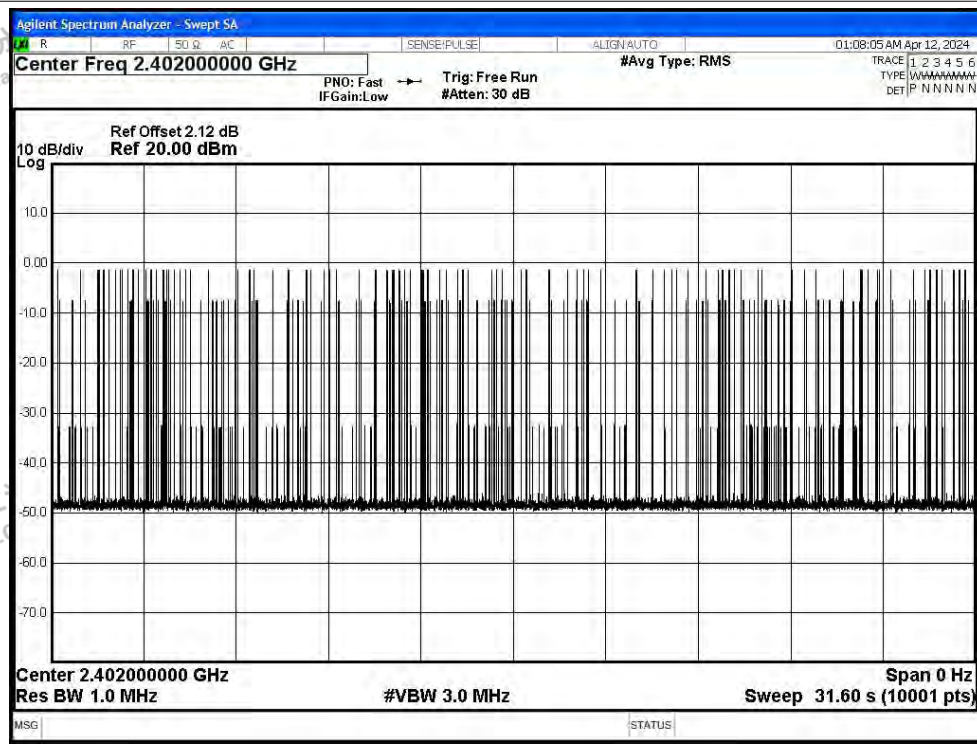




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

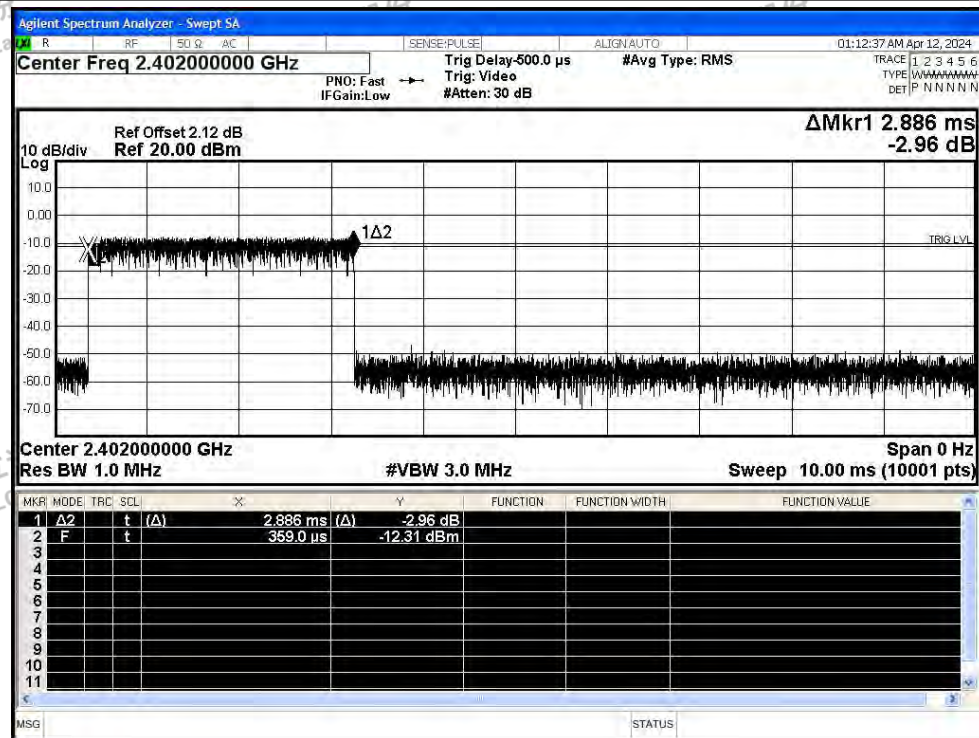


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

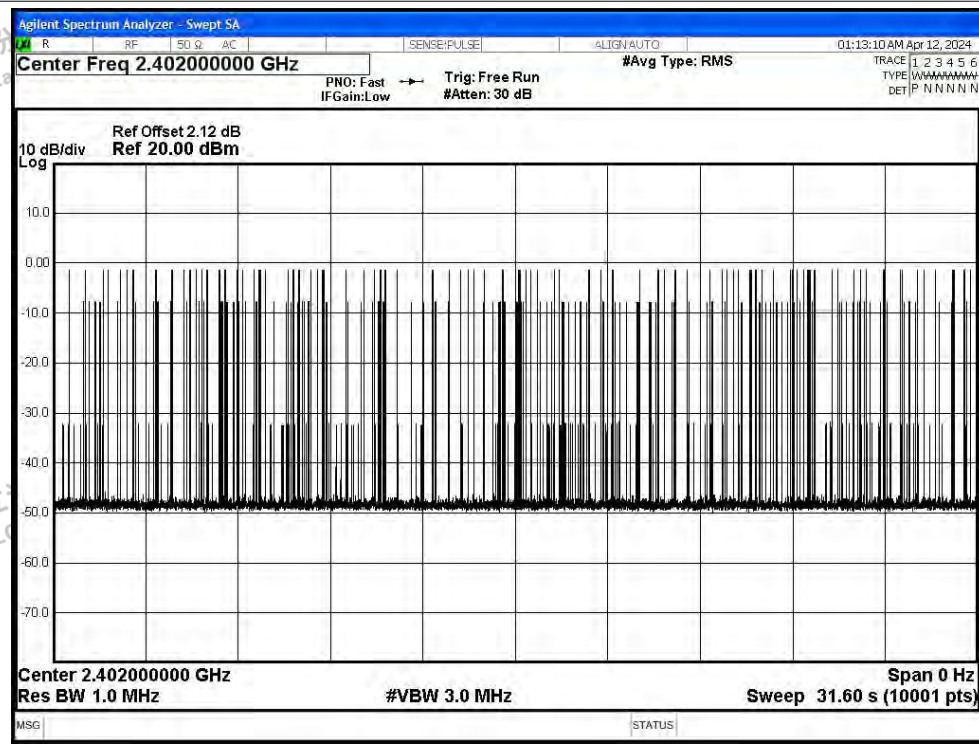




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





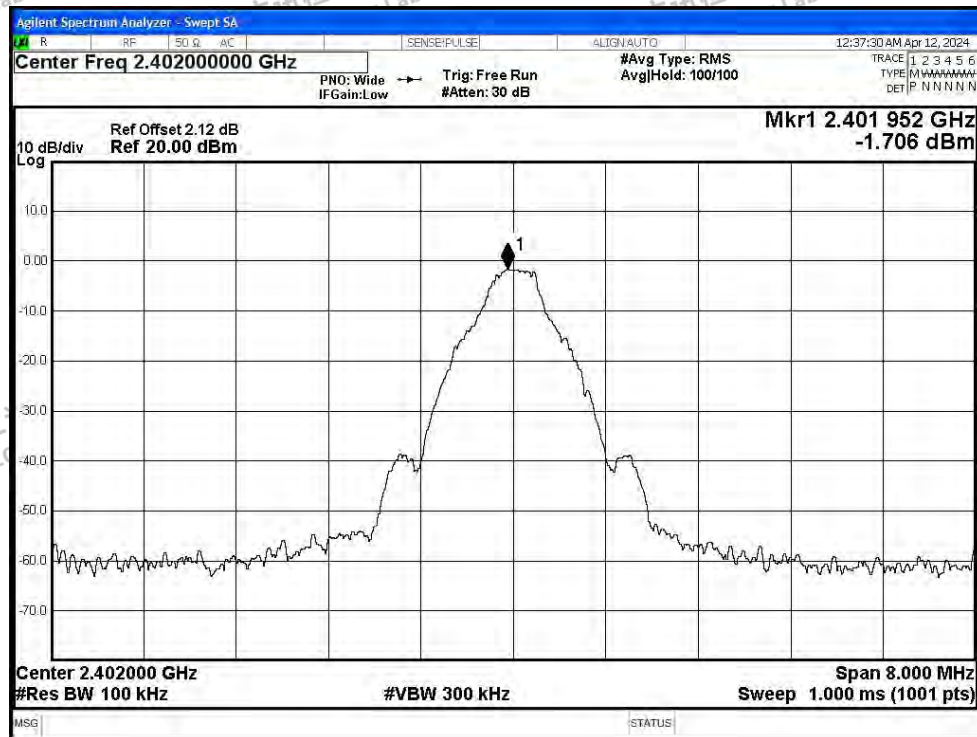
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.36	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.03	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.29	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.65	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.55	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.8	-20	Pass

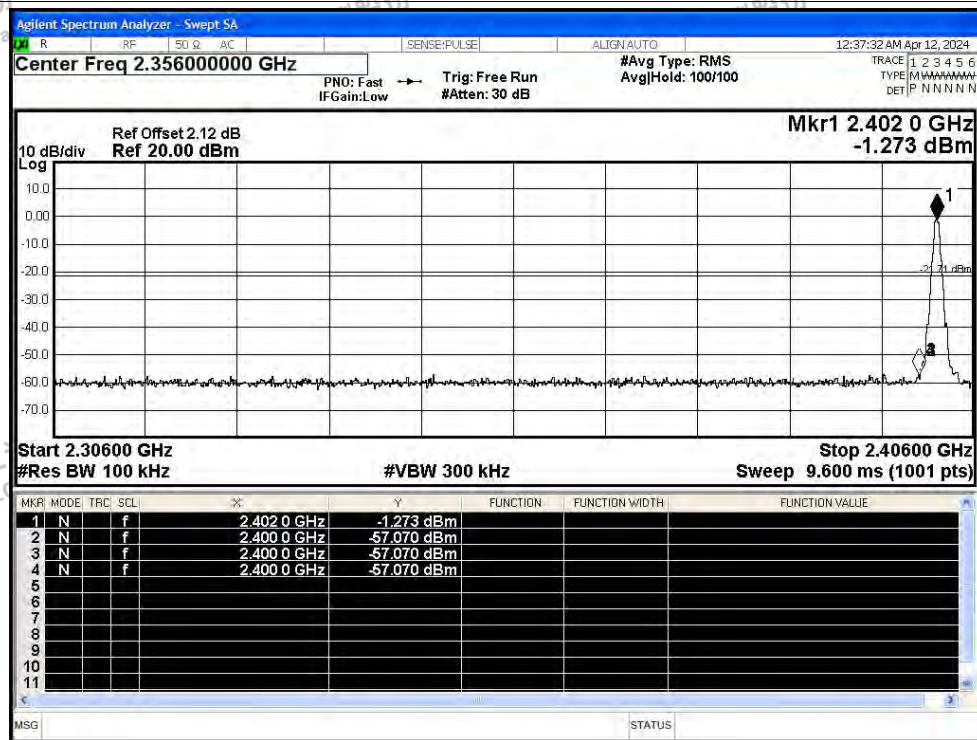


Test Graphs

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

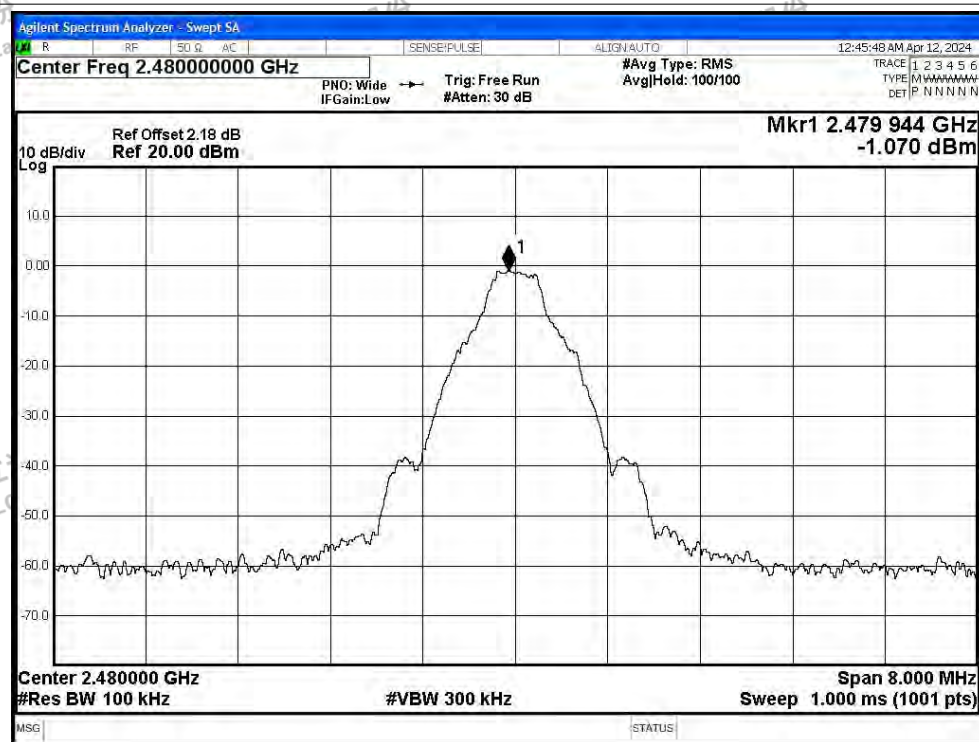


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

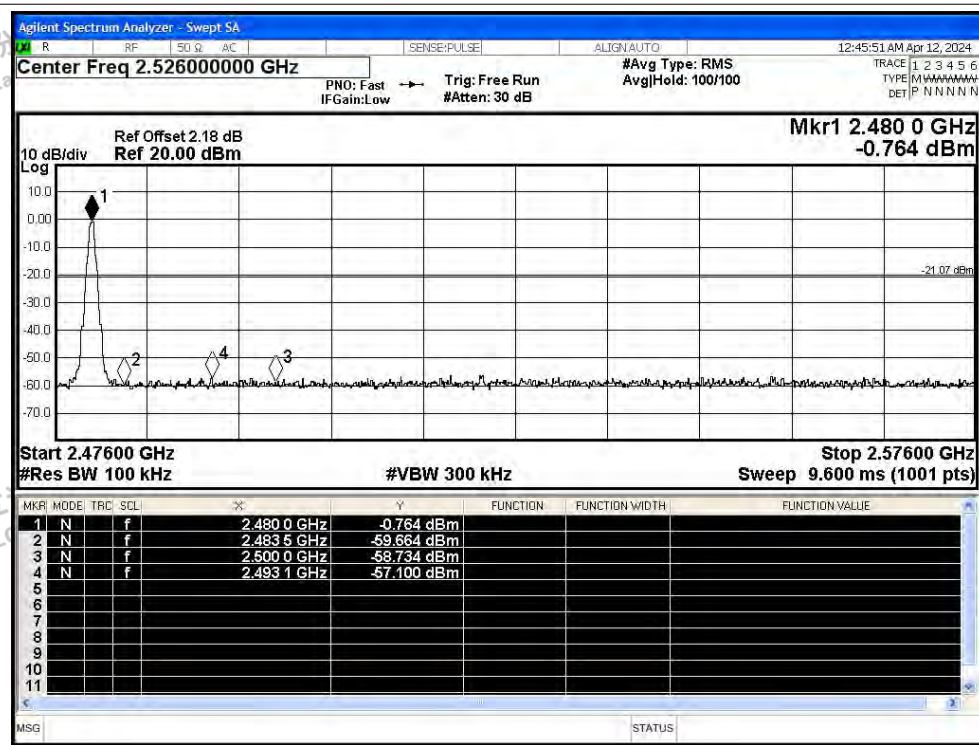




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

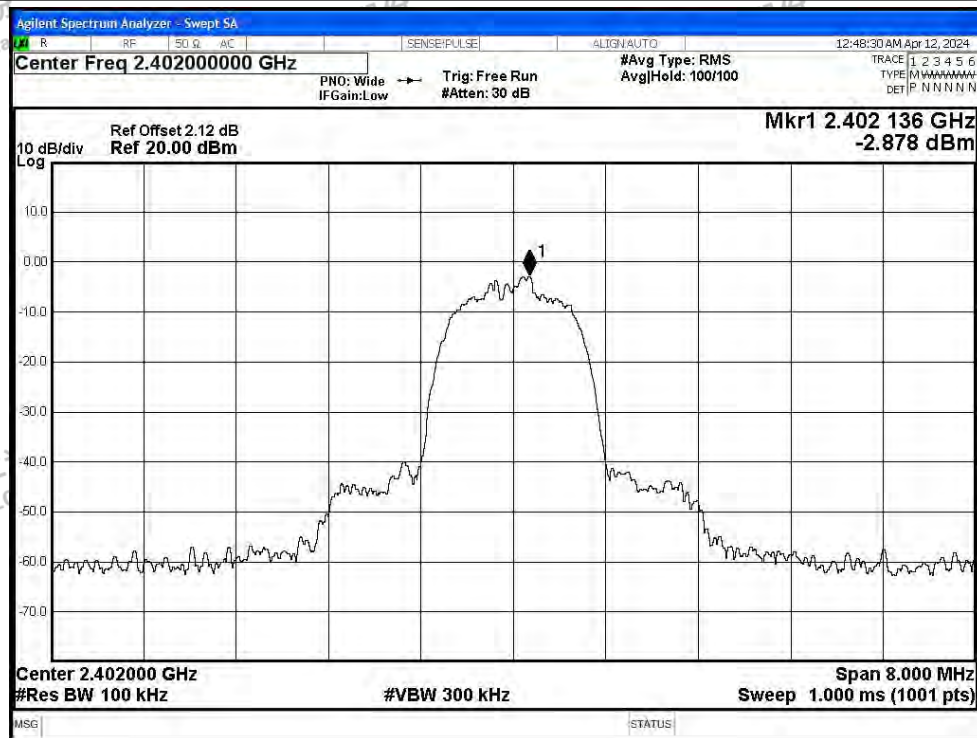


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

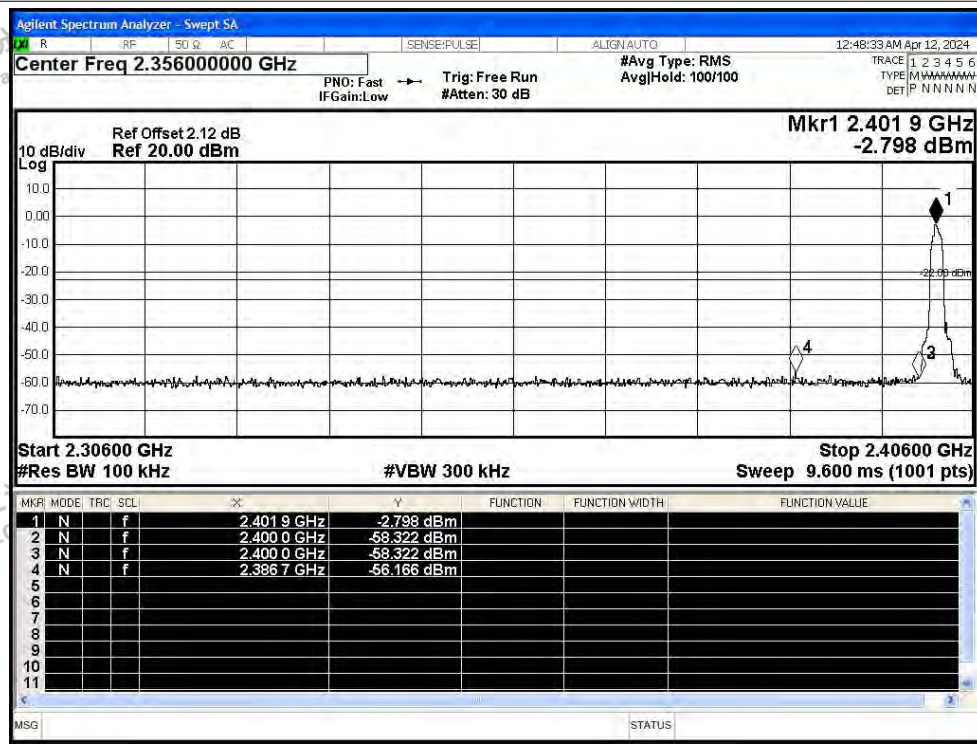




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

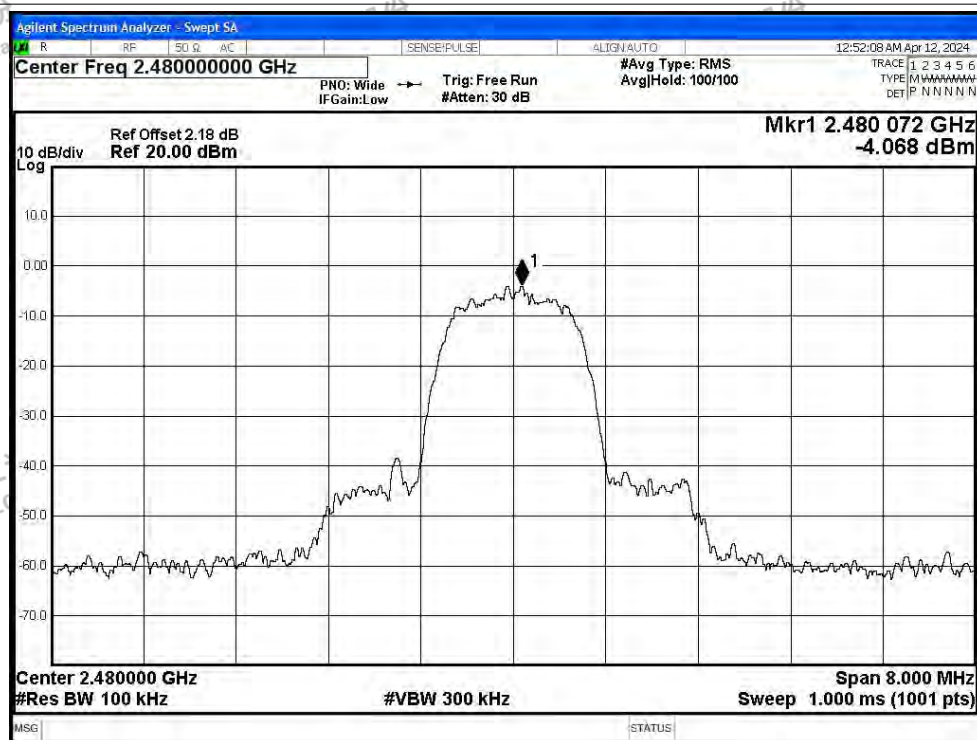


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

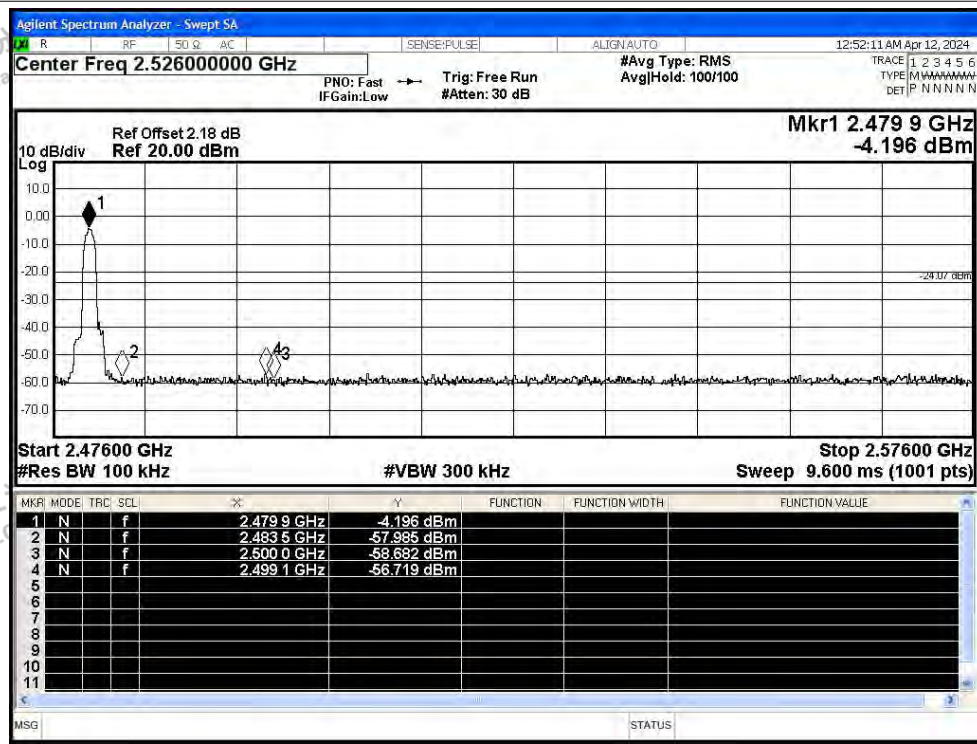




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

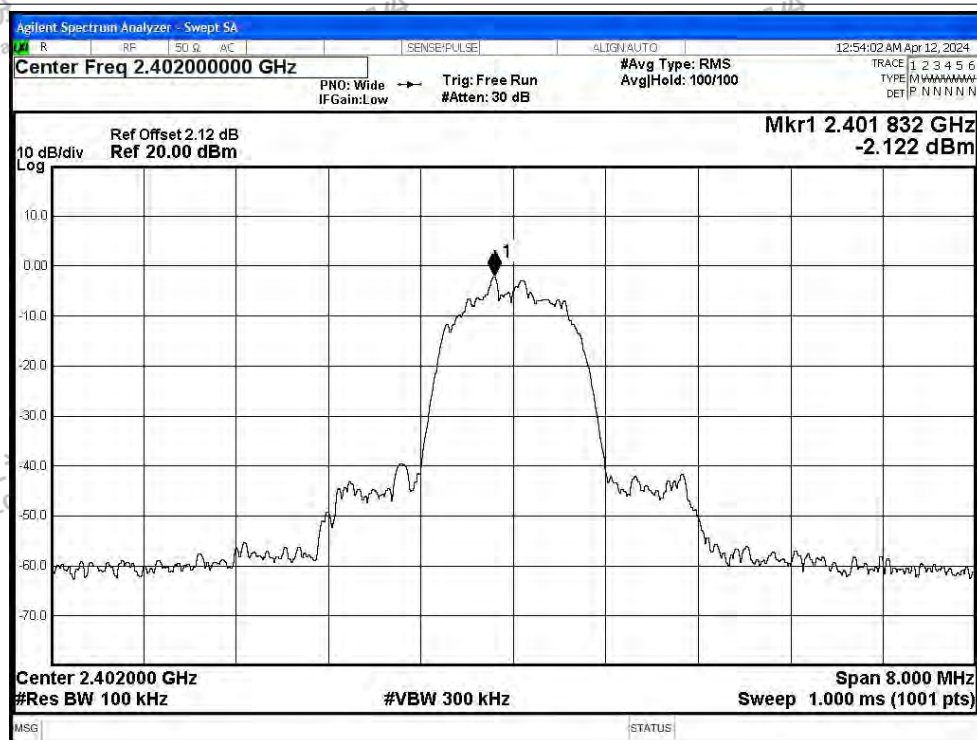


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

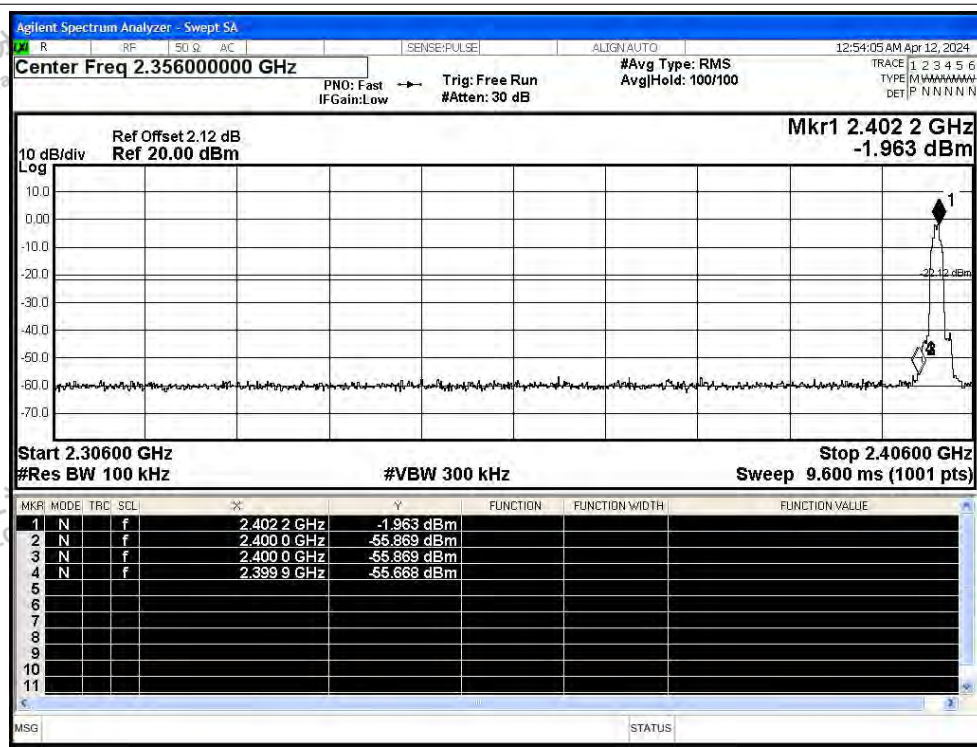




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

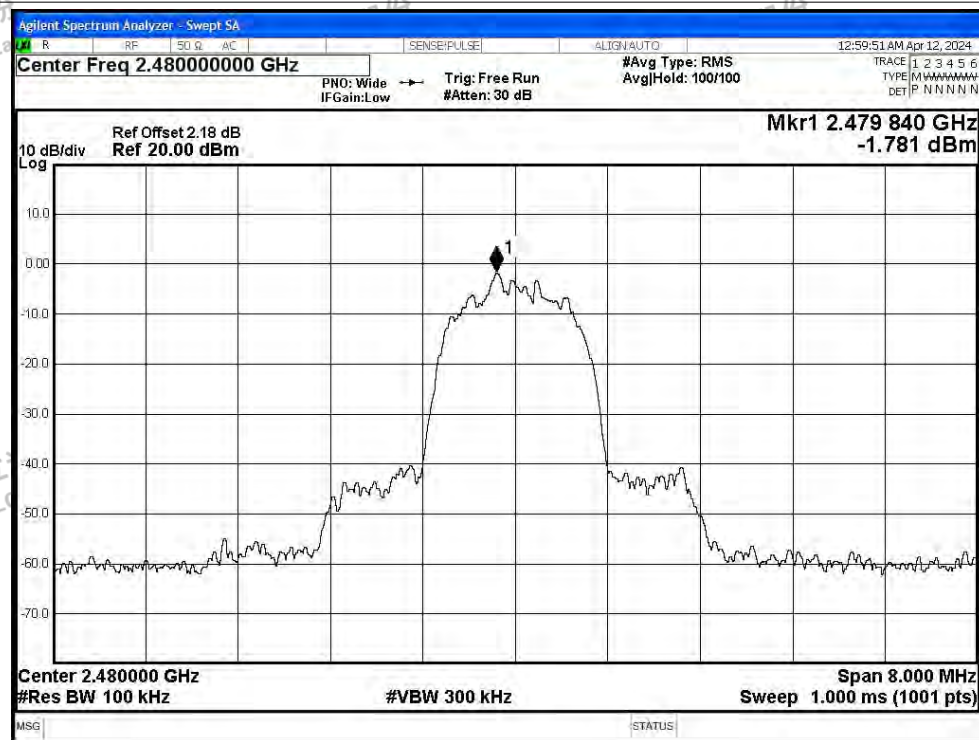


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

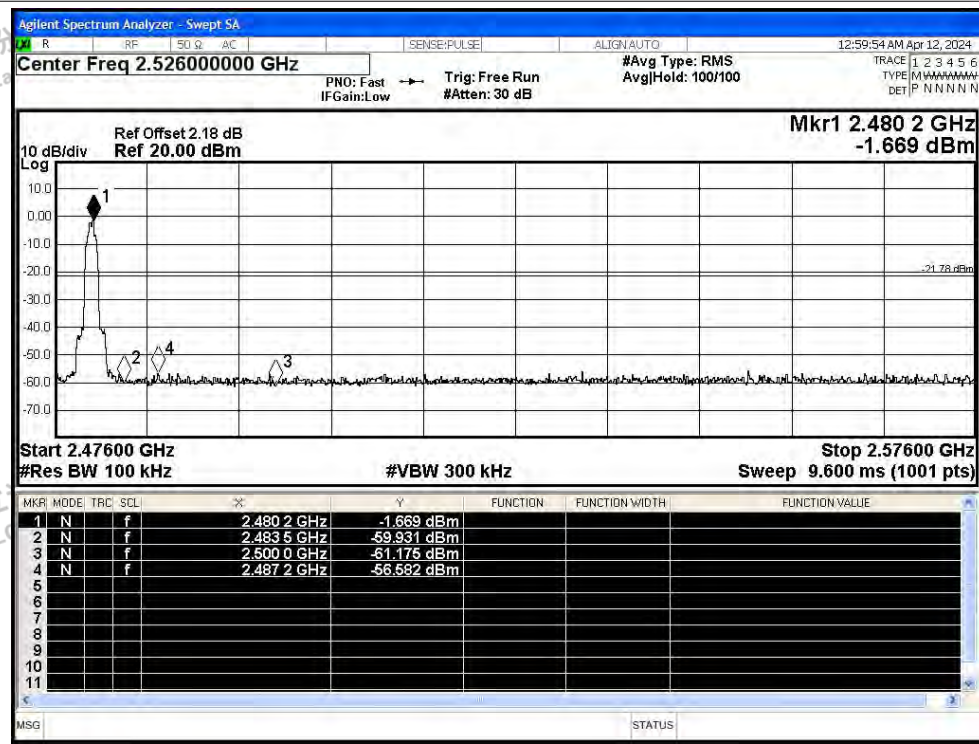




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



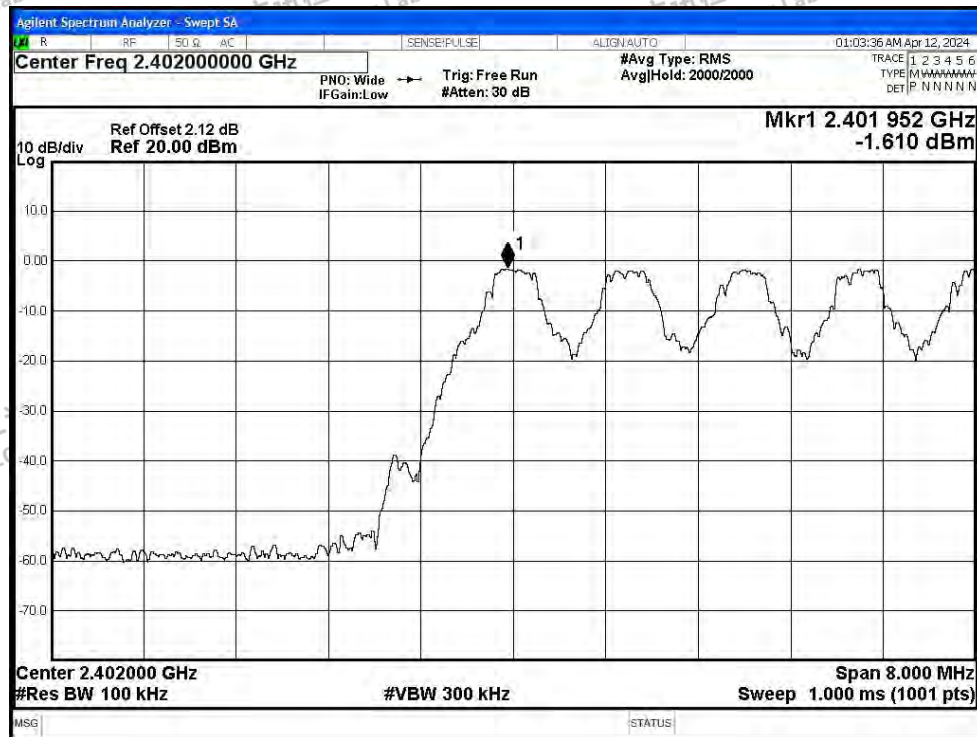
**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.33	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.83	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.86	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.63	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.01	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.92	-20	Pass

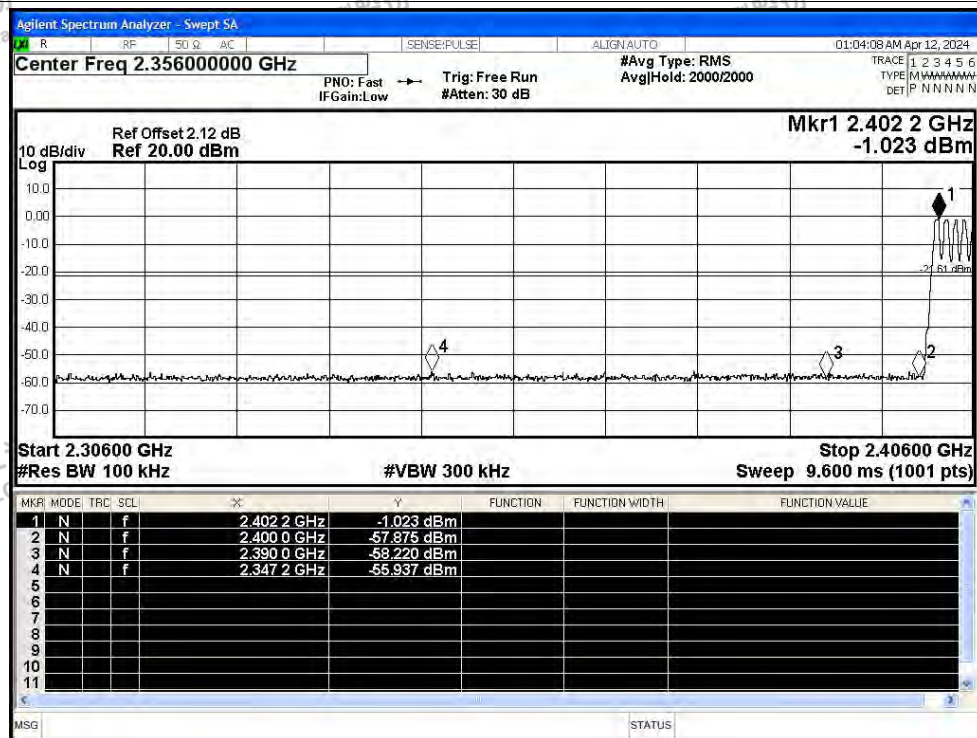


Test Graphs

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

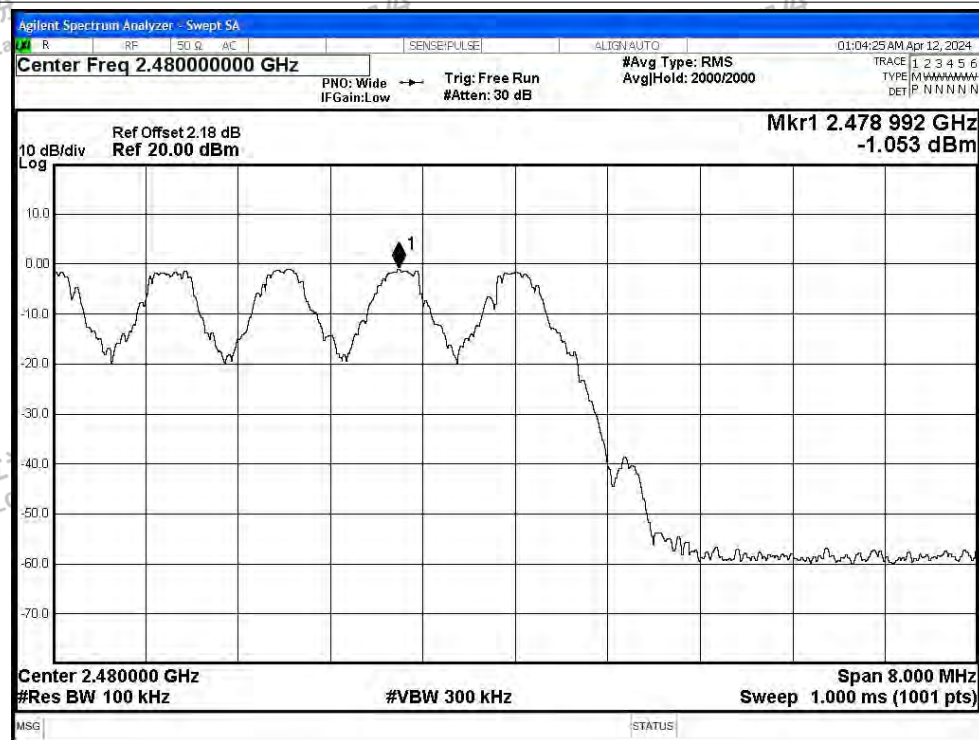


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

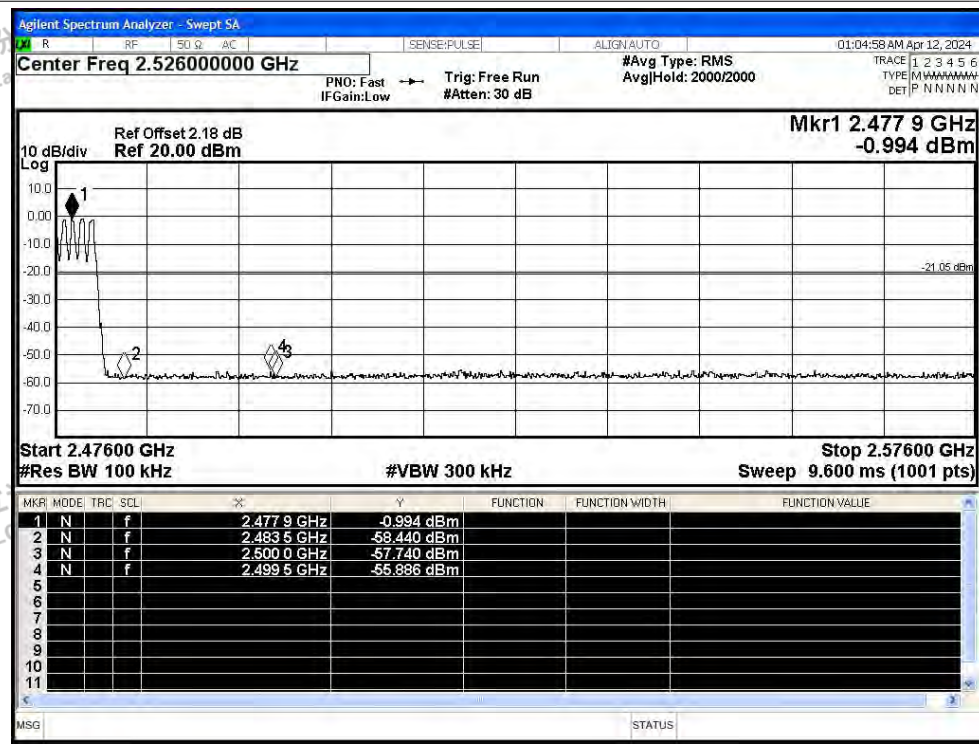




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

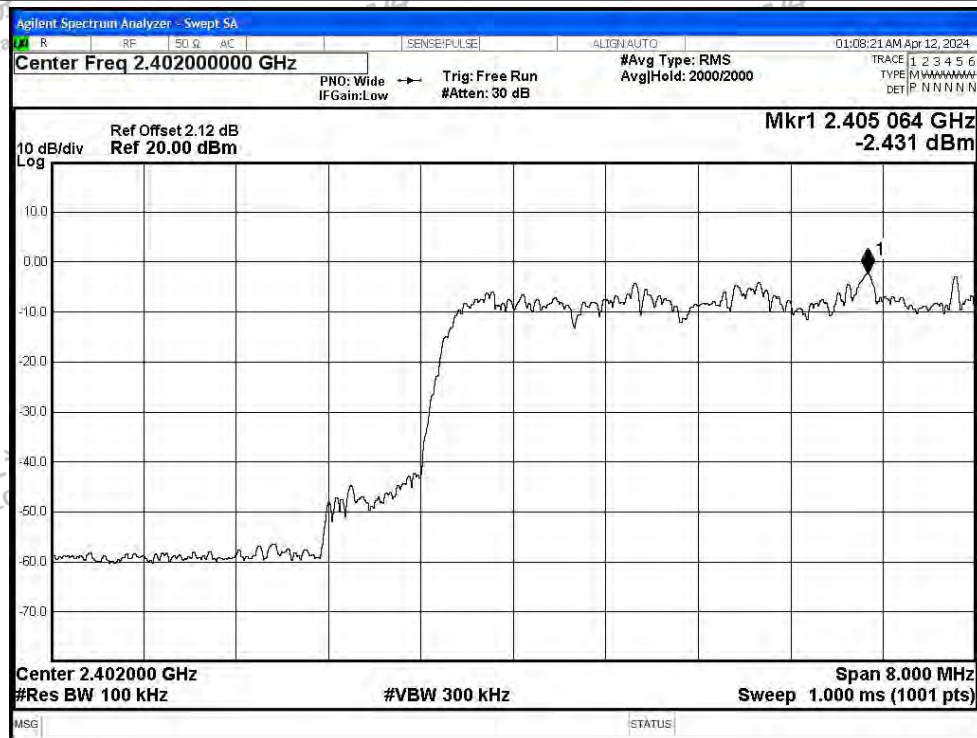


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

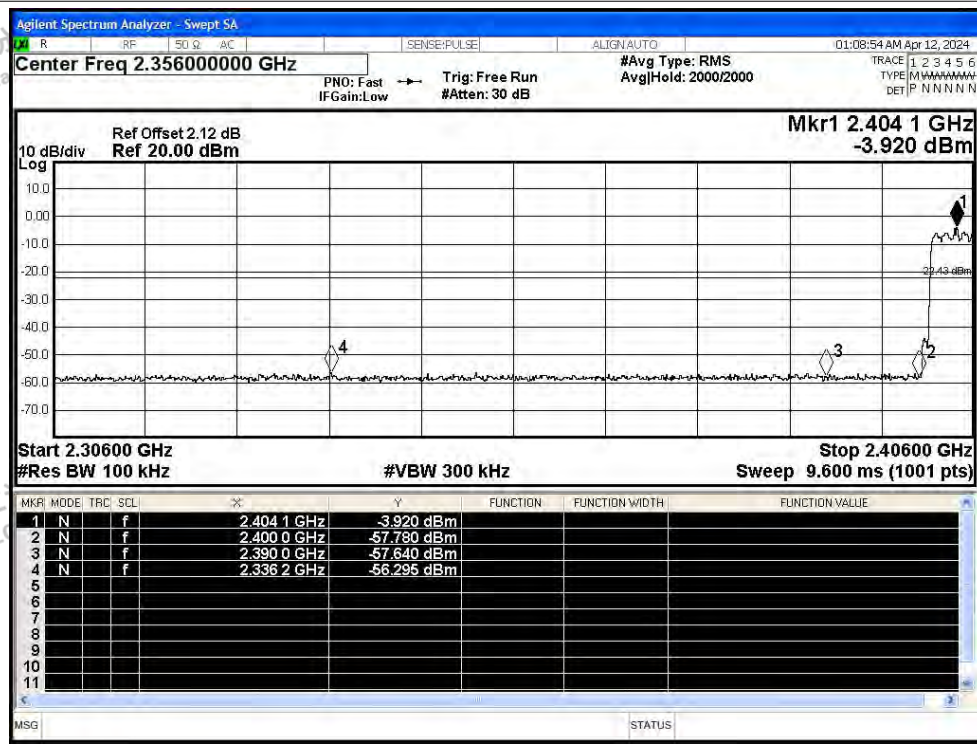




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

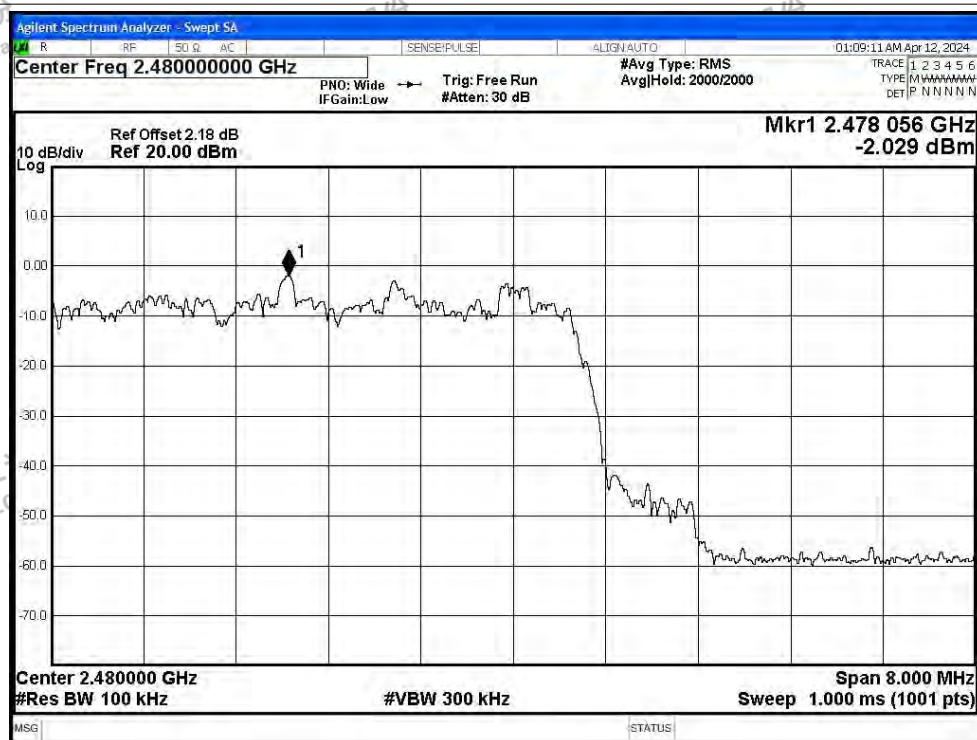


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

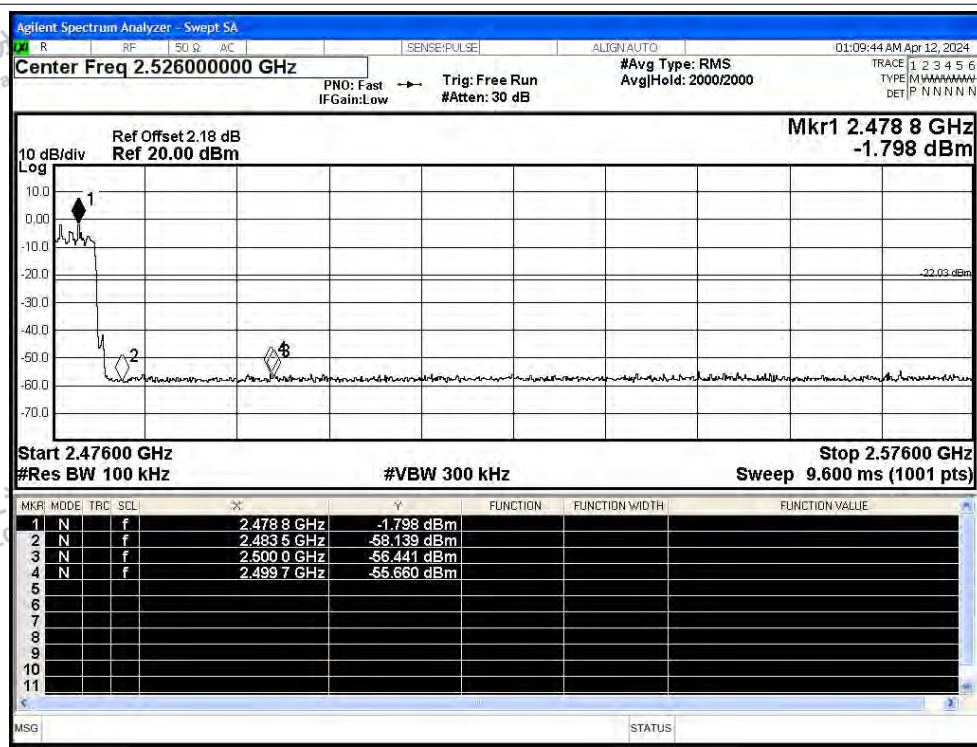




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

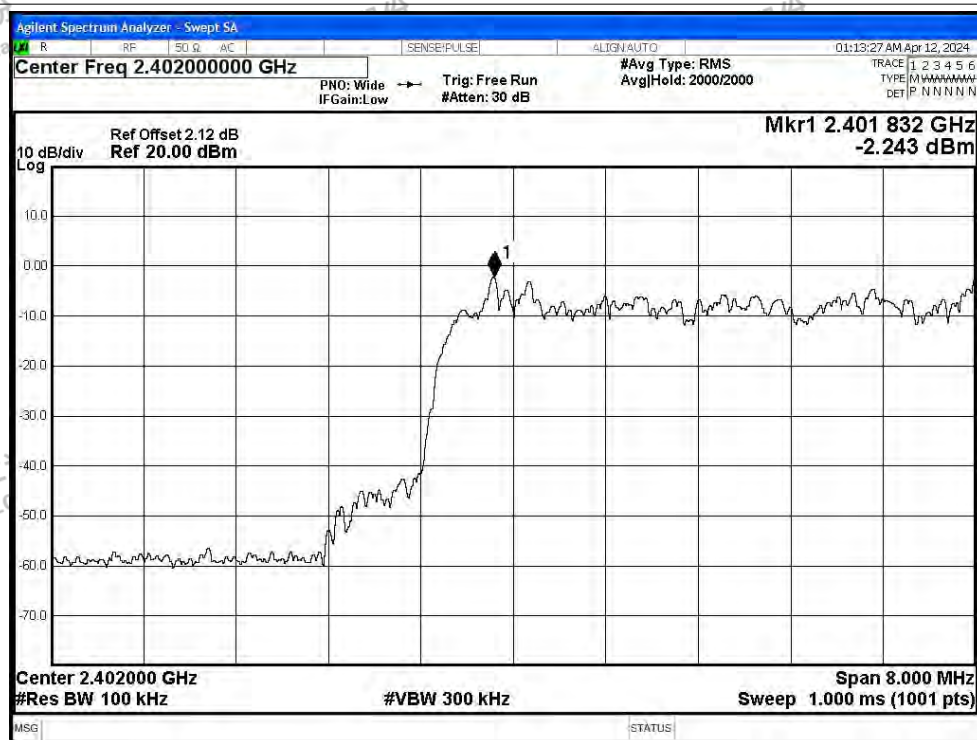


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

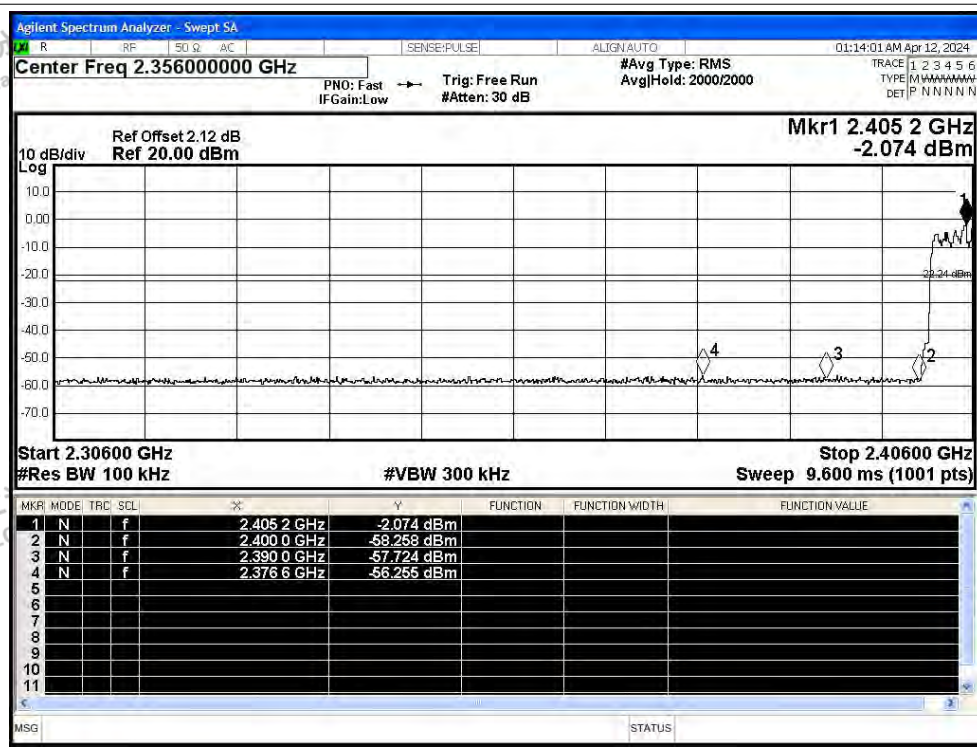




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

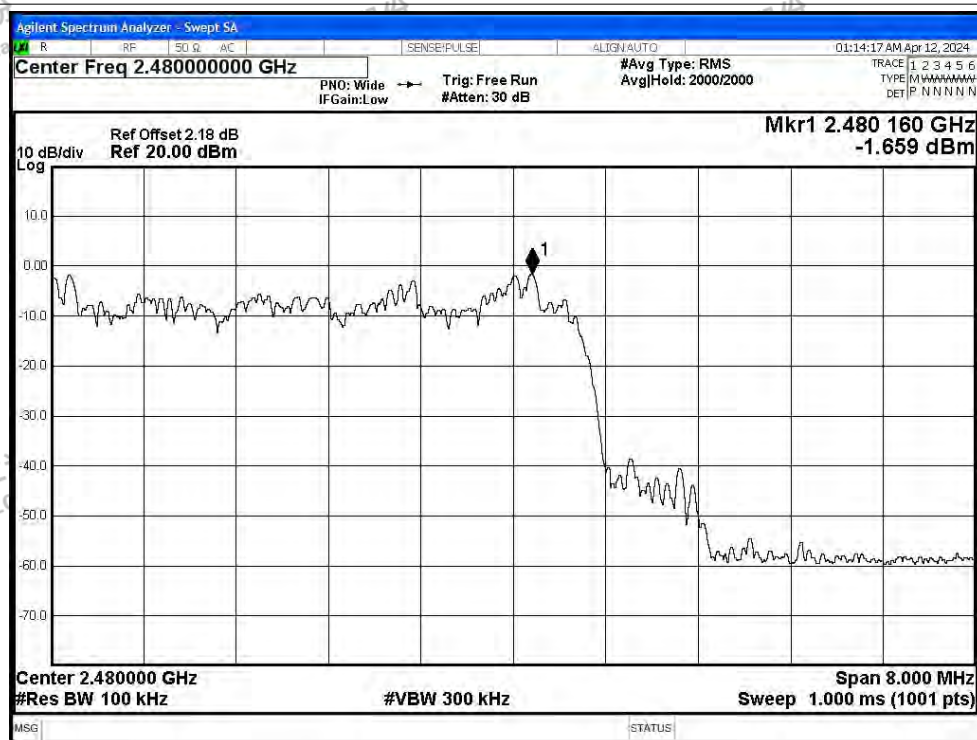


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

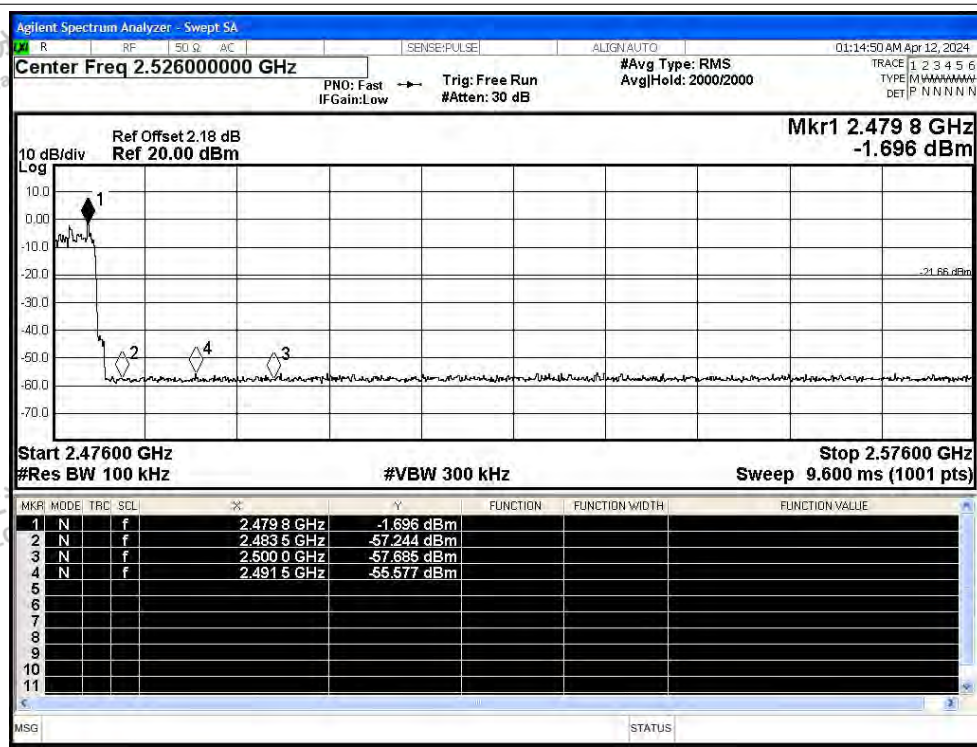




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-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	-48.78	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.61	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.52	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.98	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.3	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.35	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.24	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.24	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.7	-20	Pass

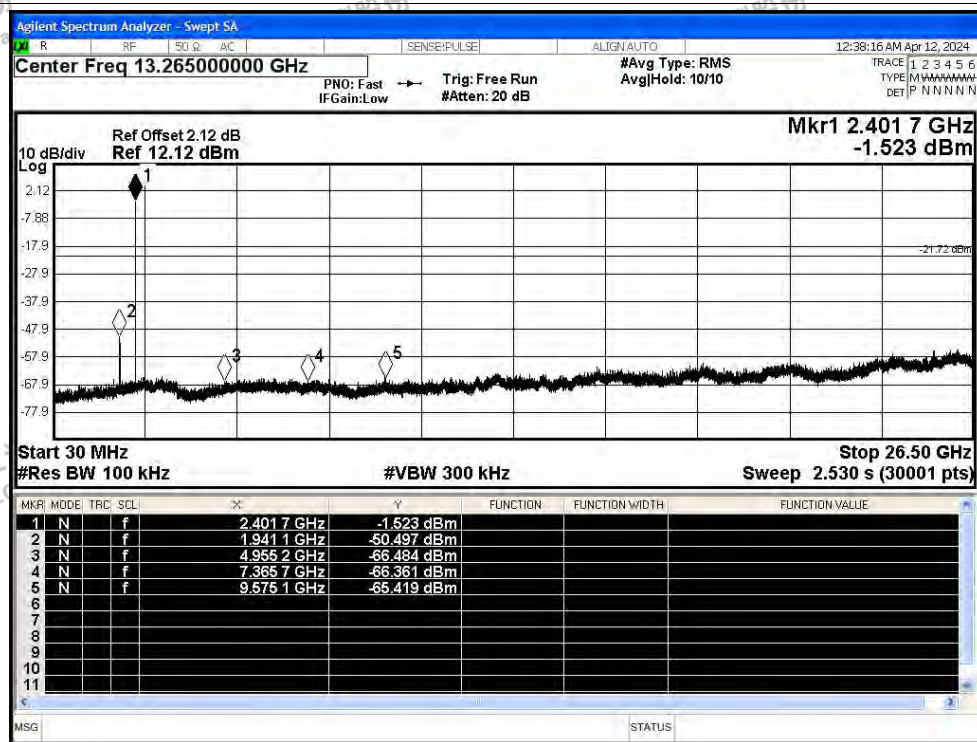


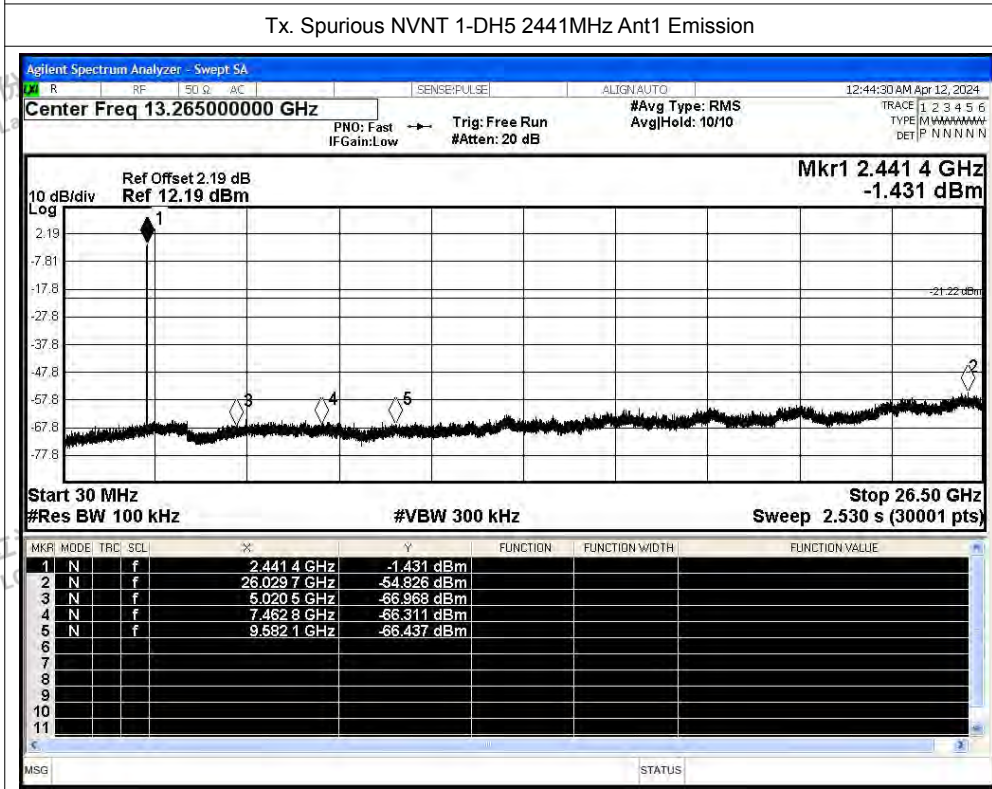
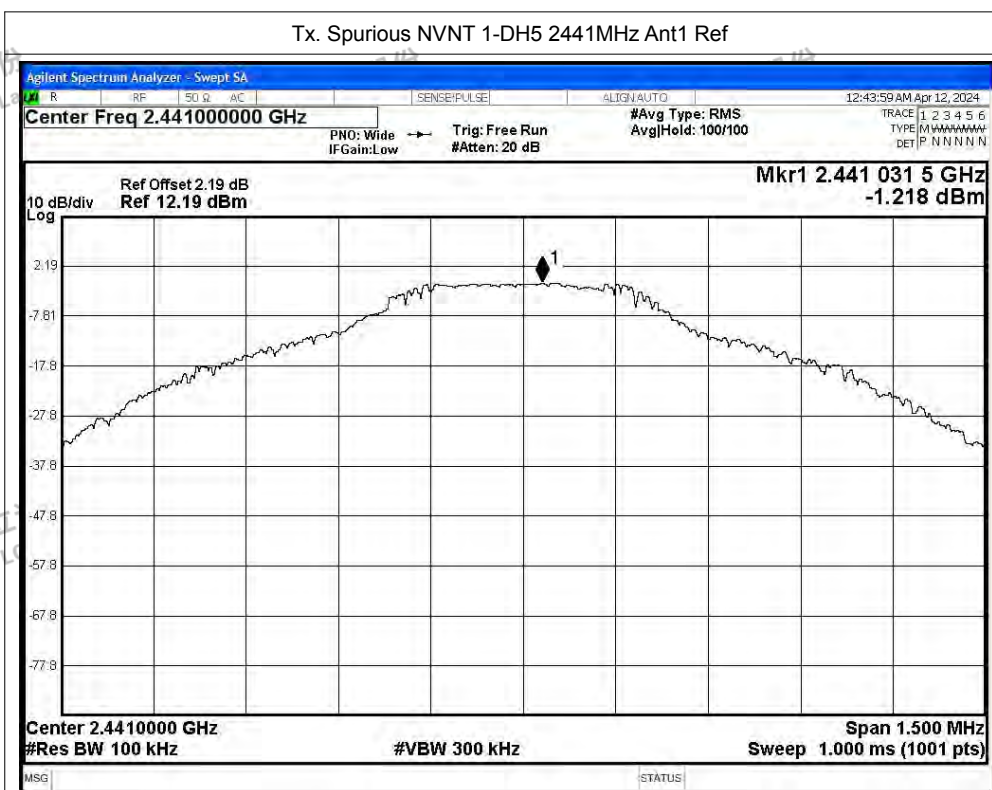
Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



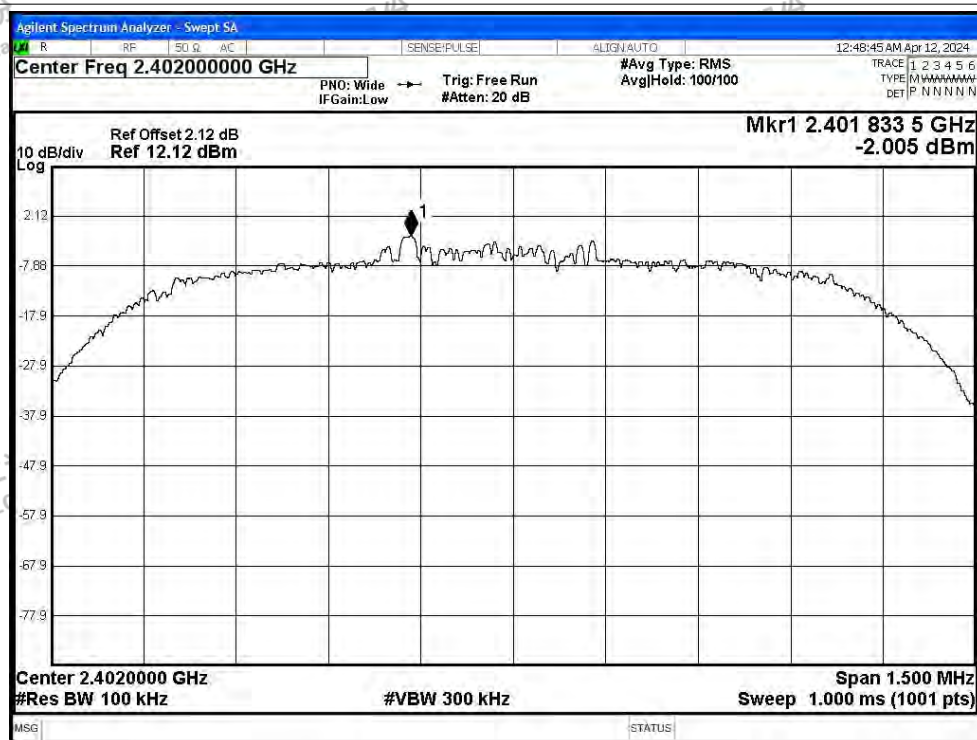
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



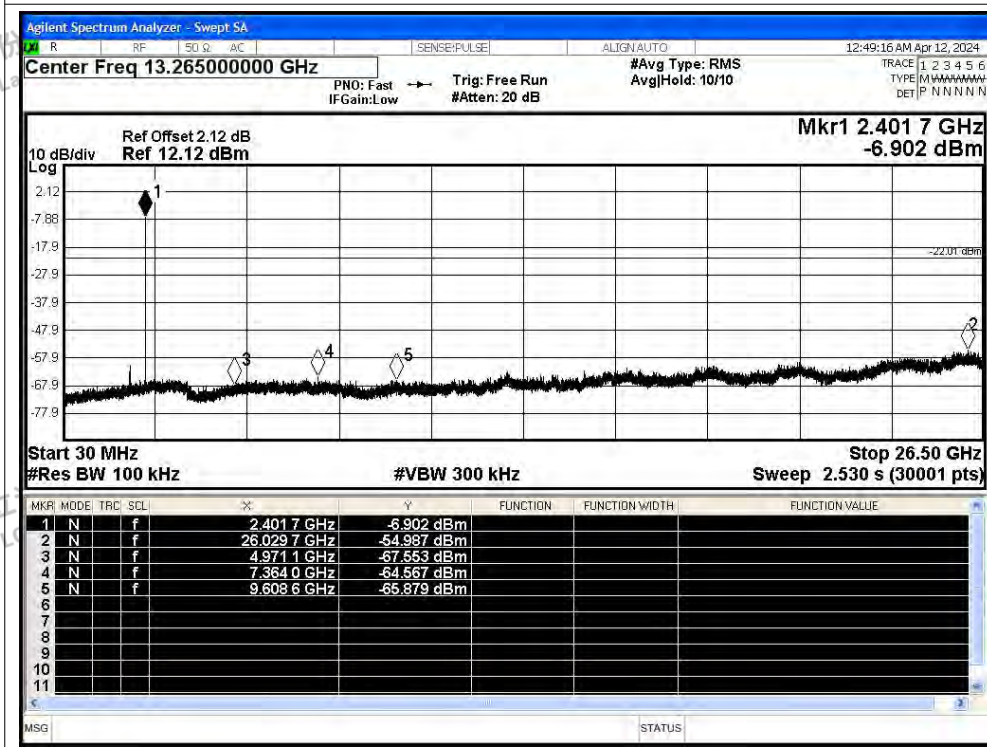




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

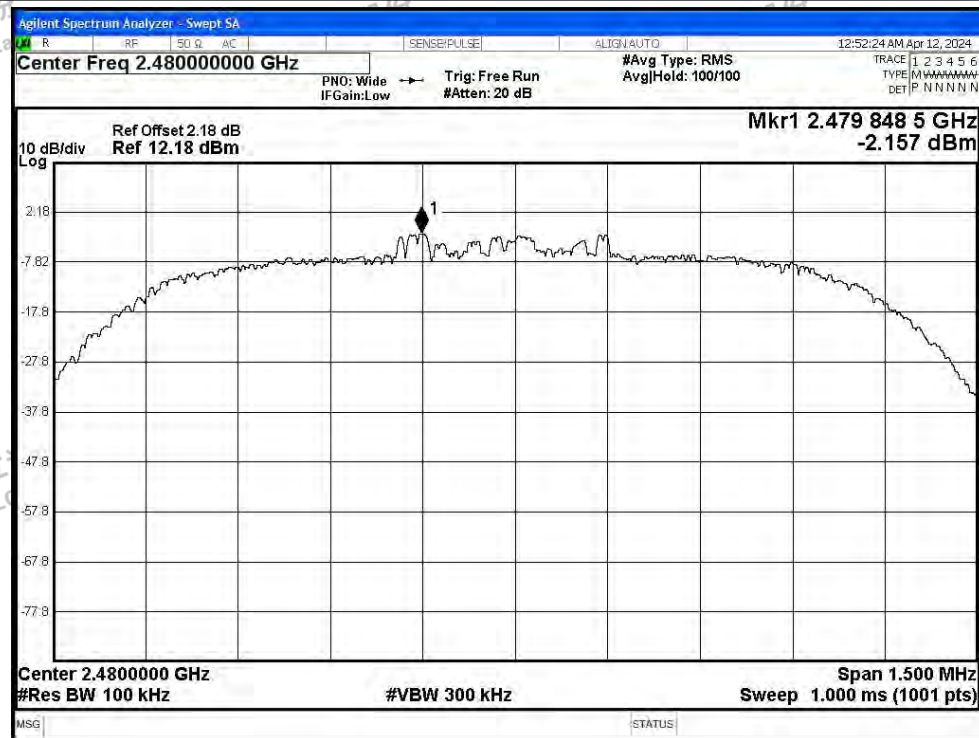


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

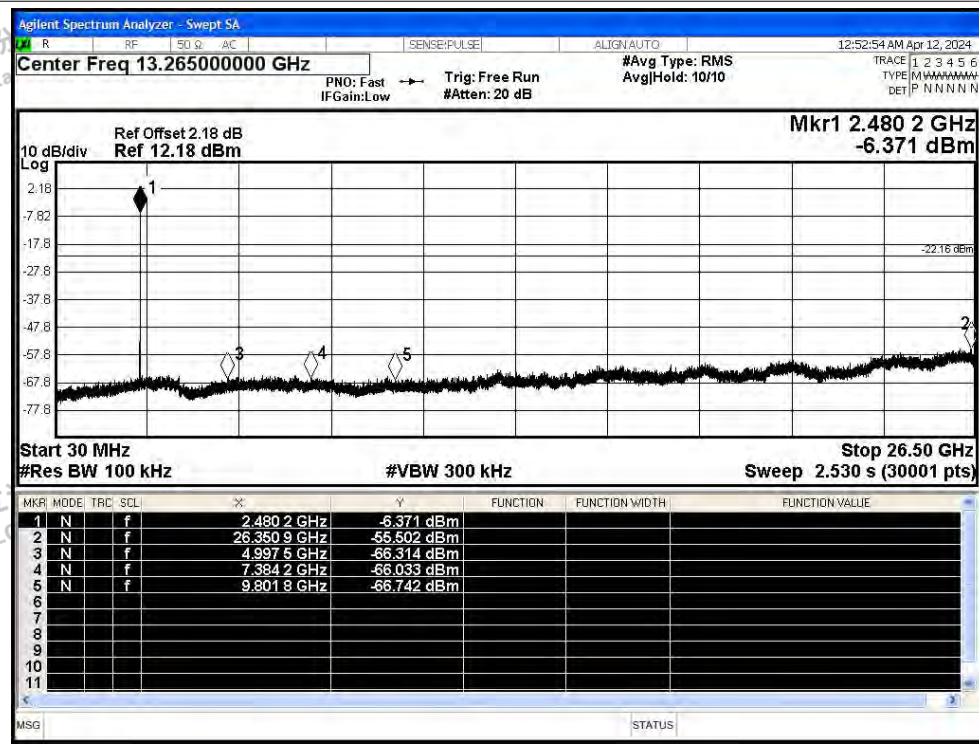


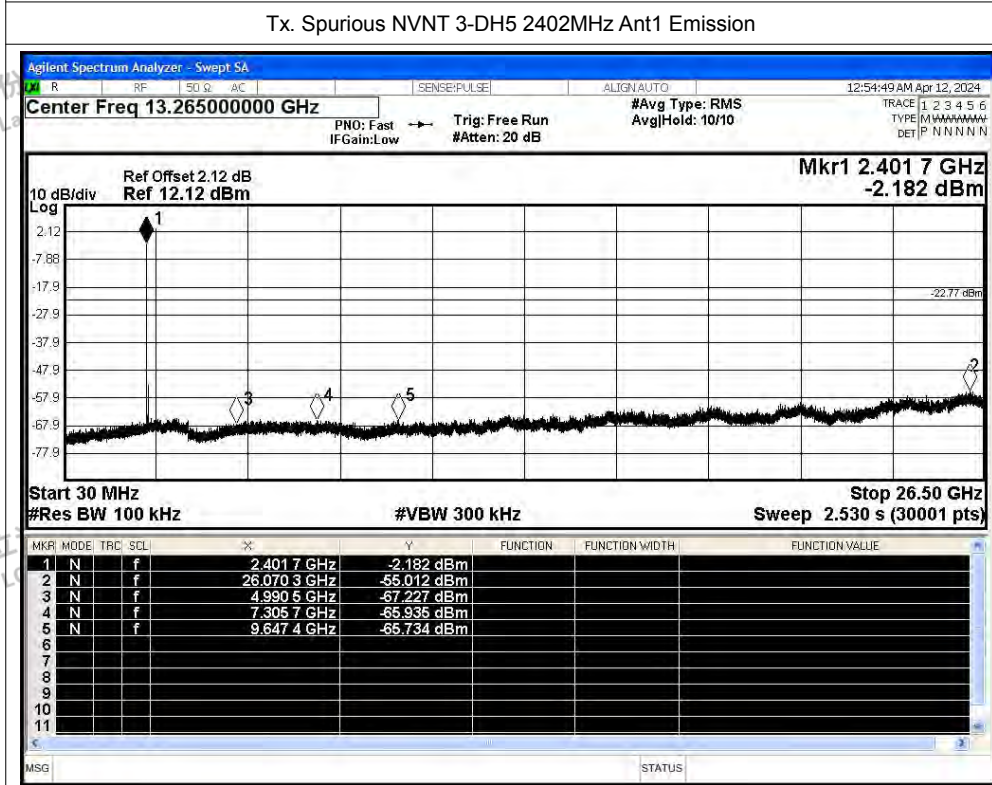
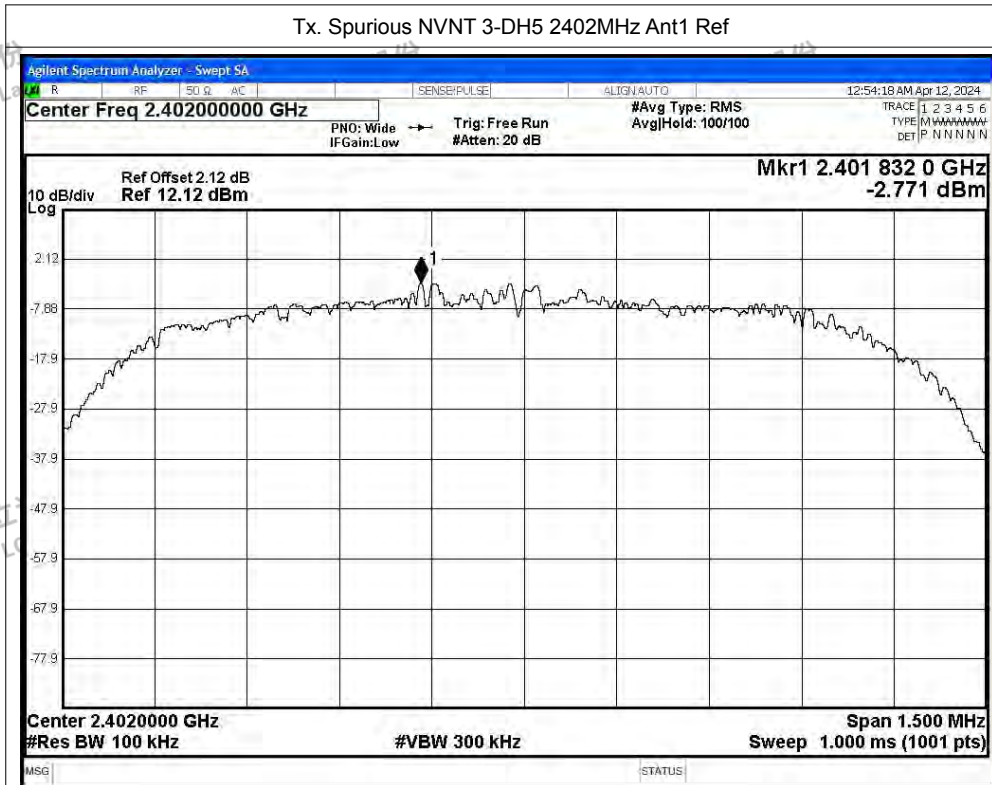


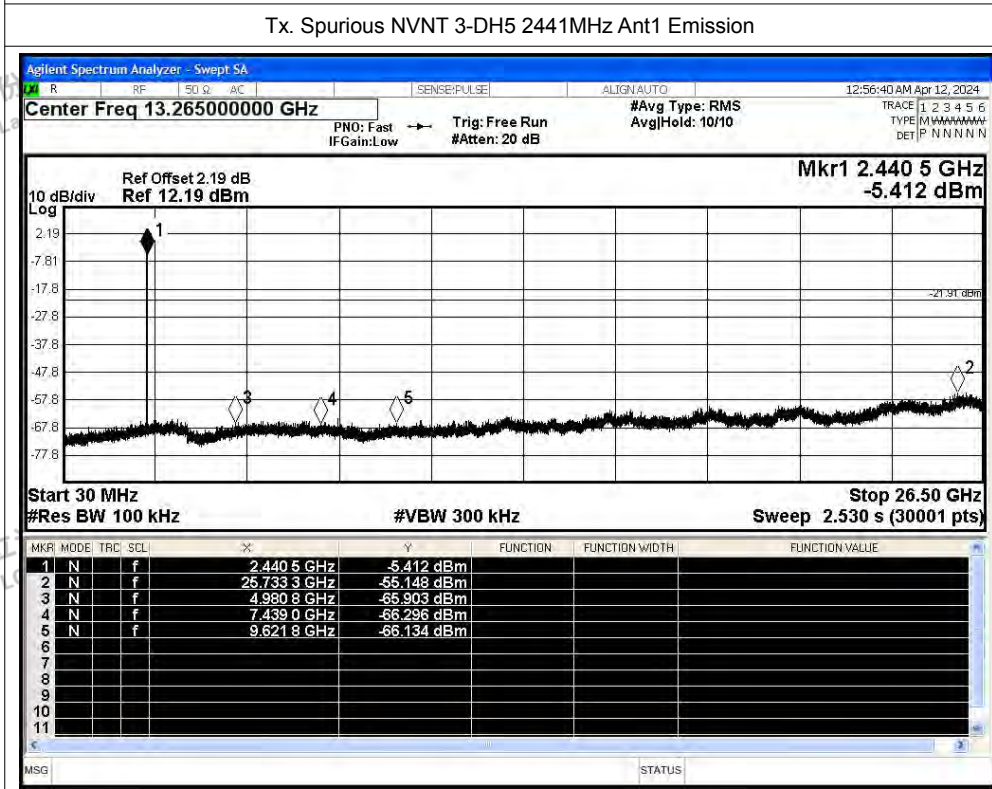
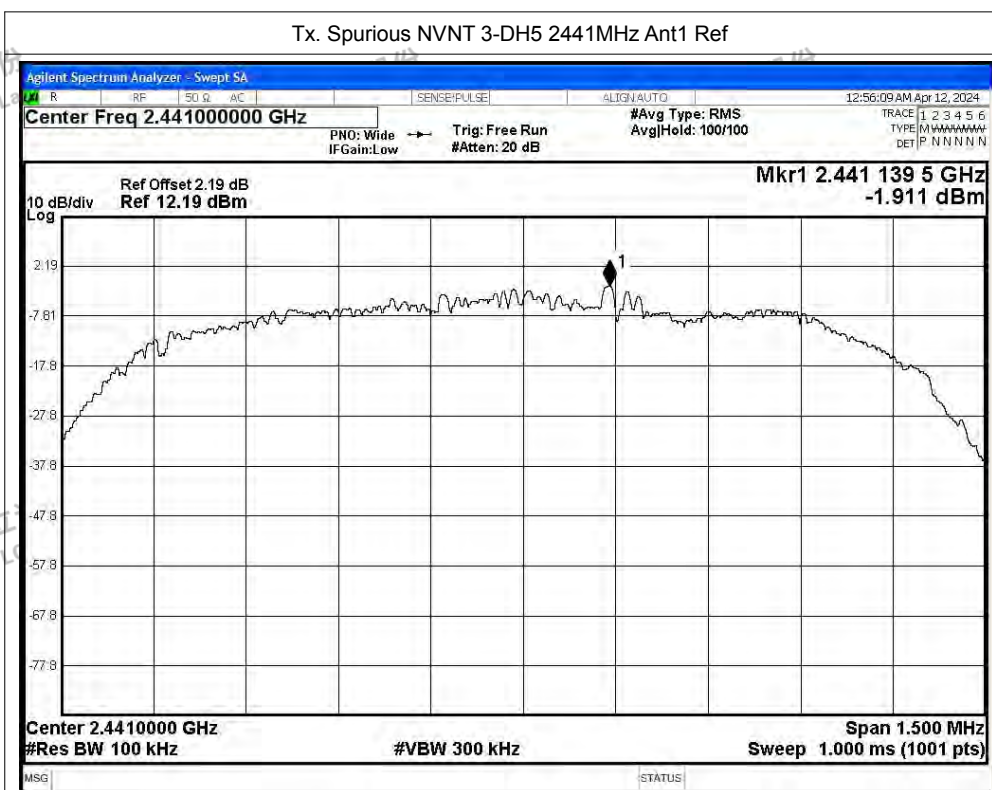
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

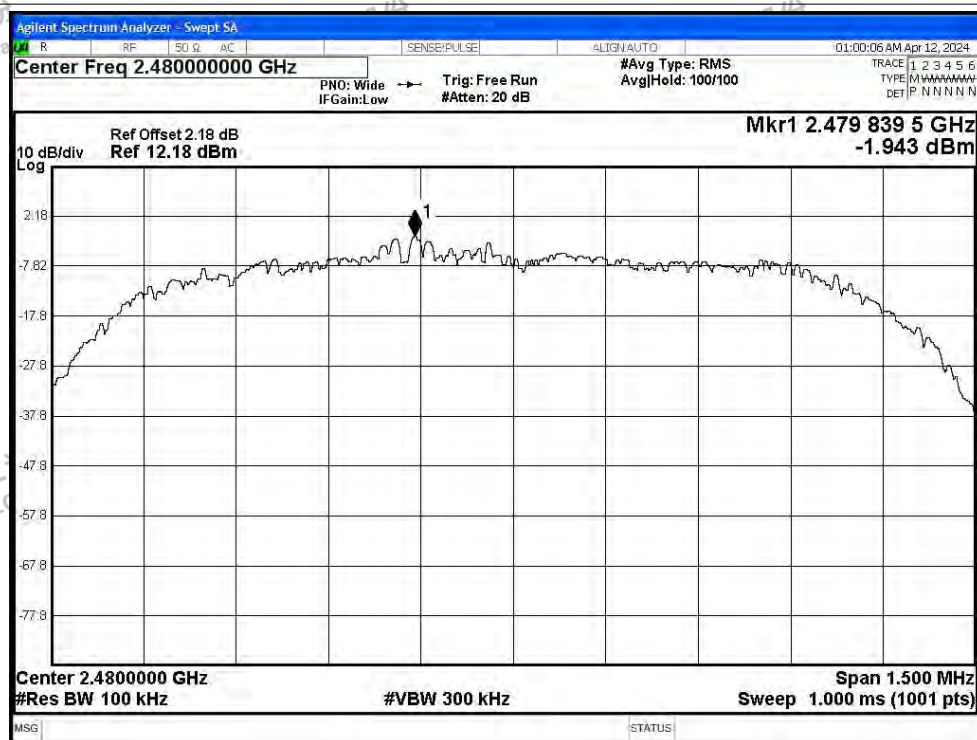




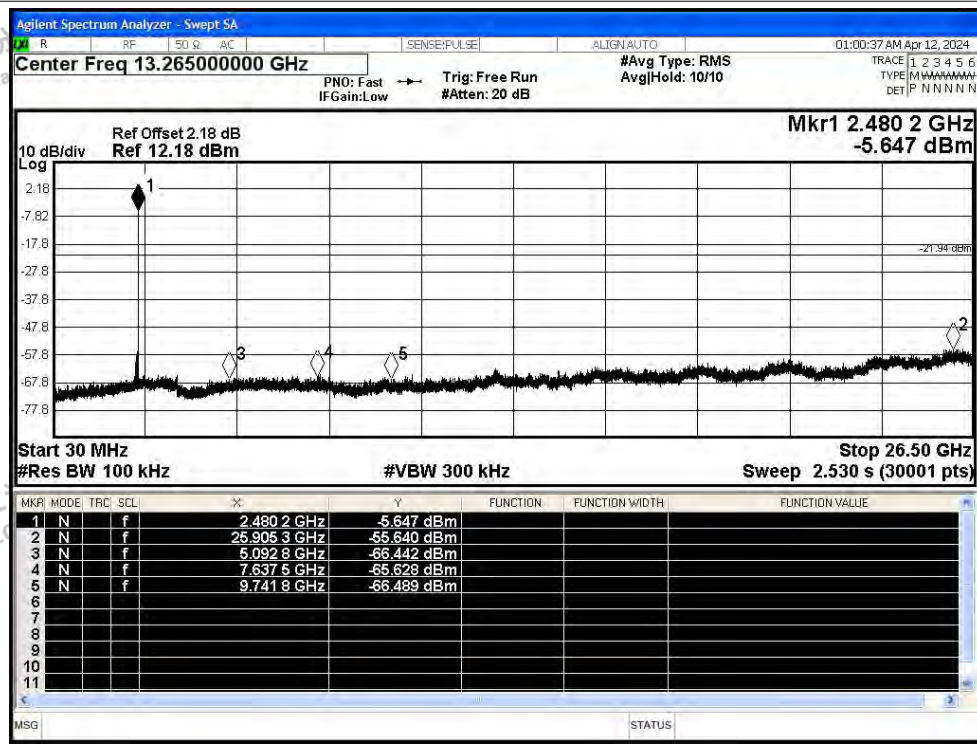




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





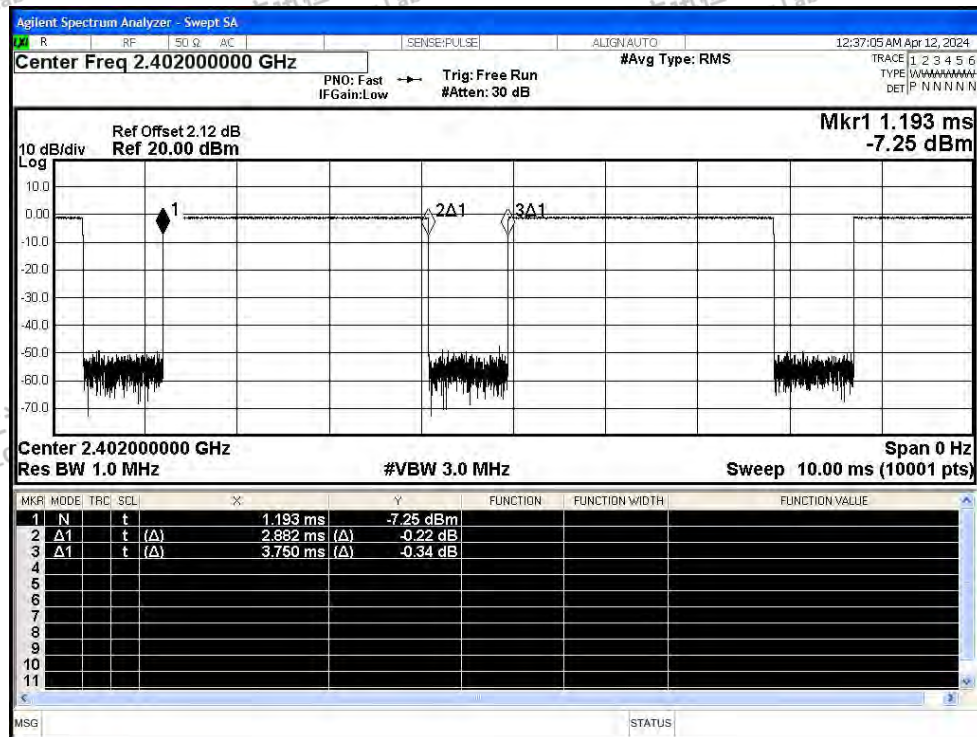
A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	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	76.97	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35

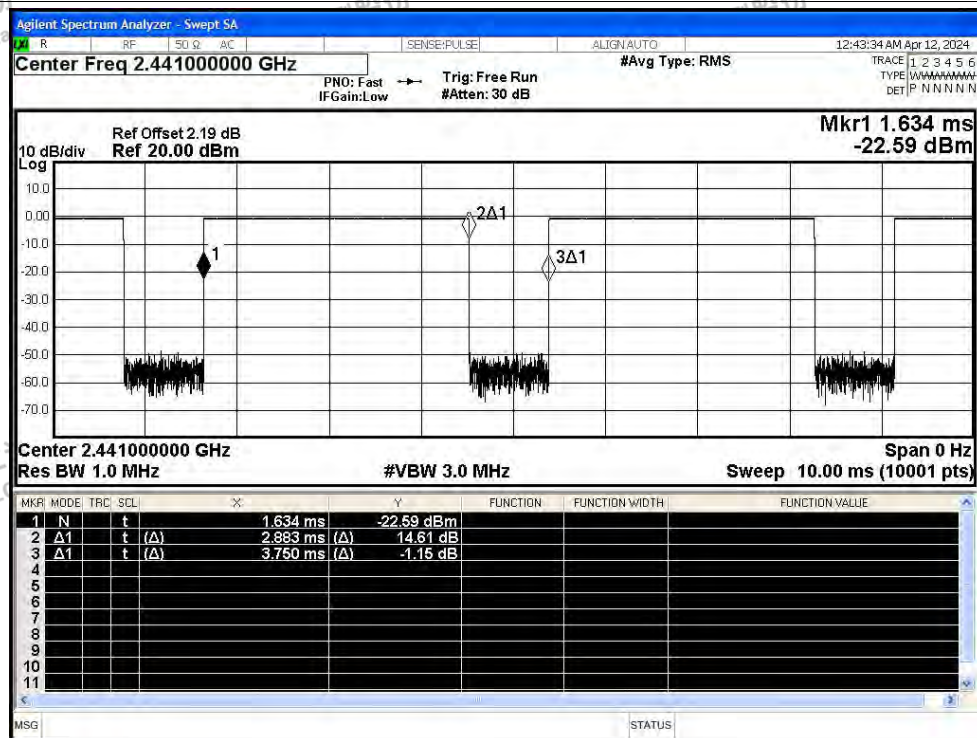


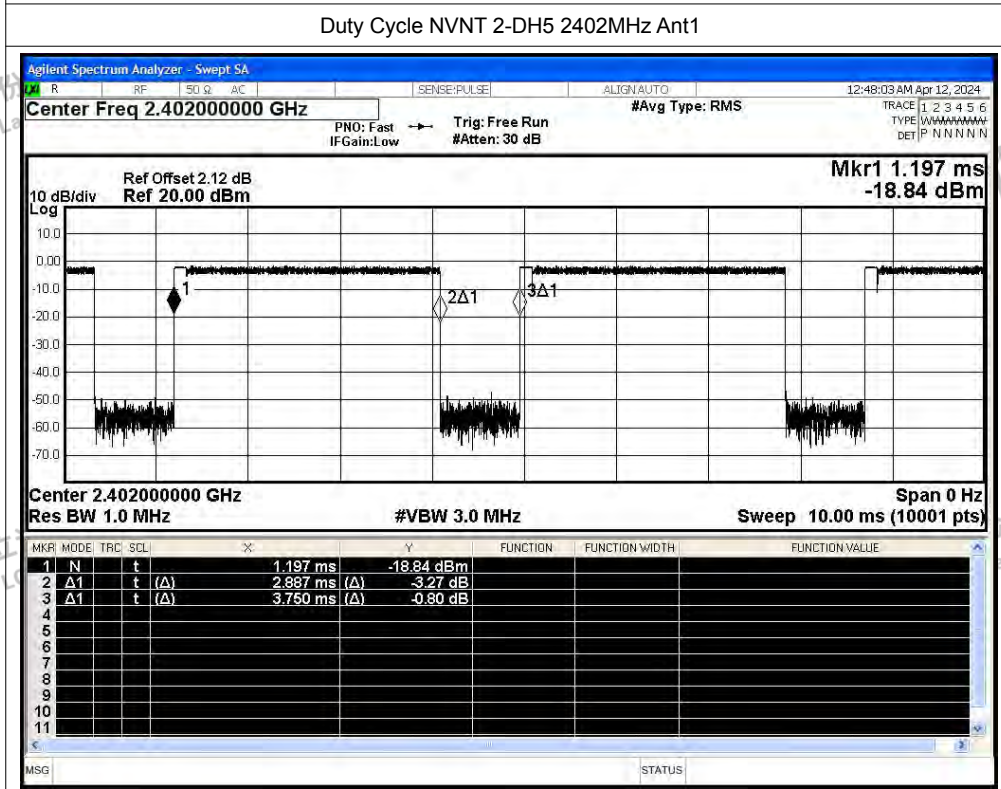
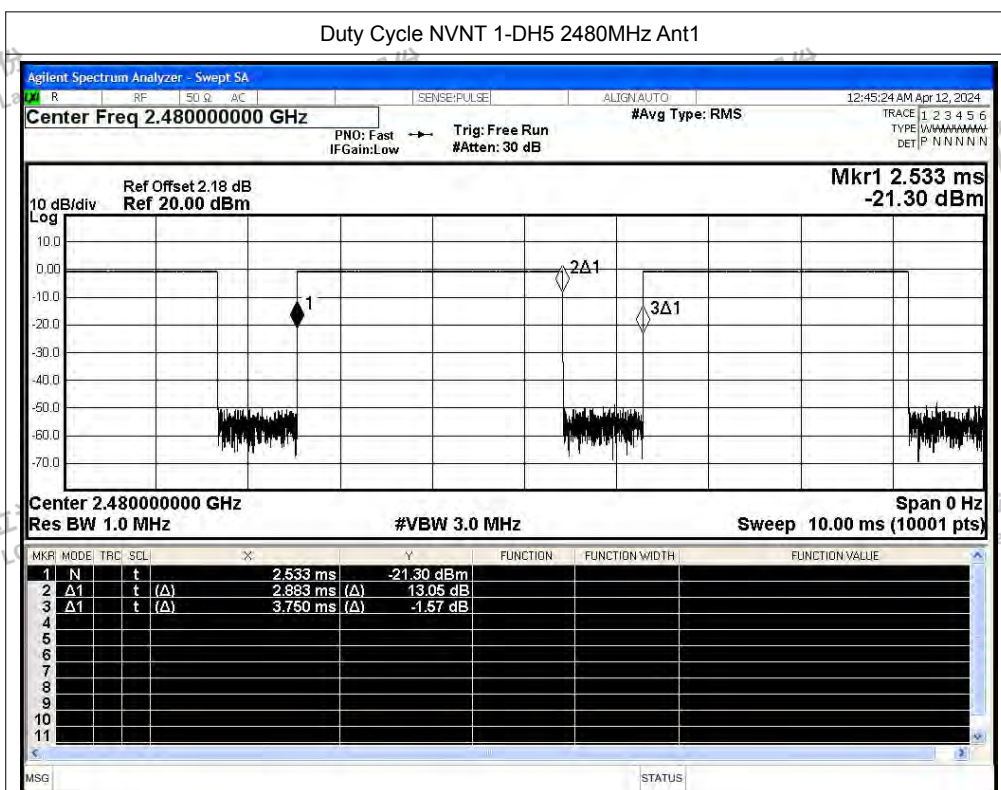
Test Graphs

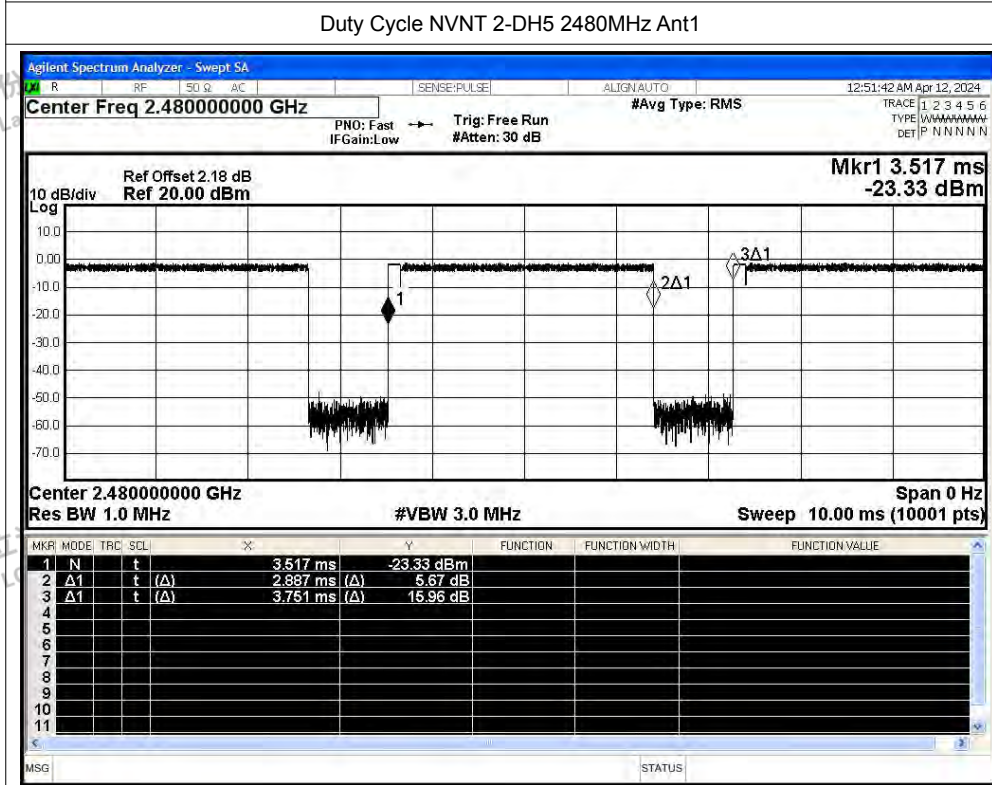
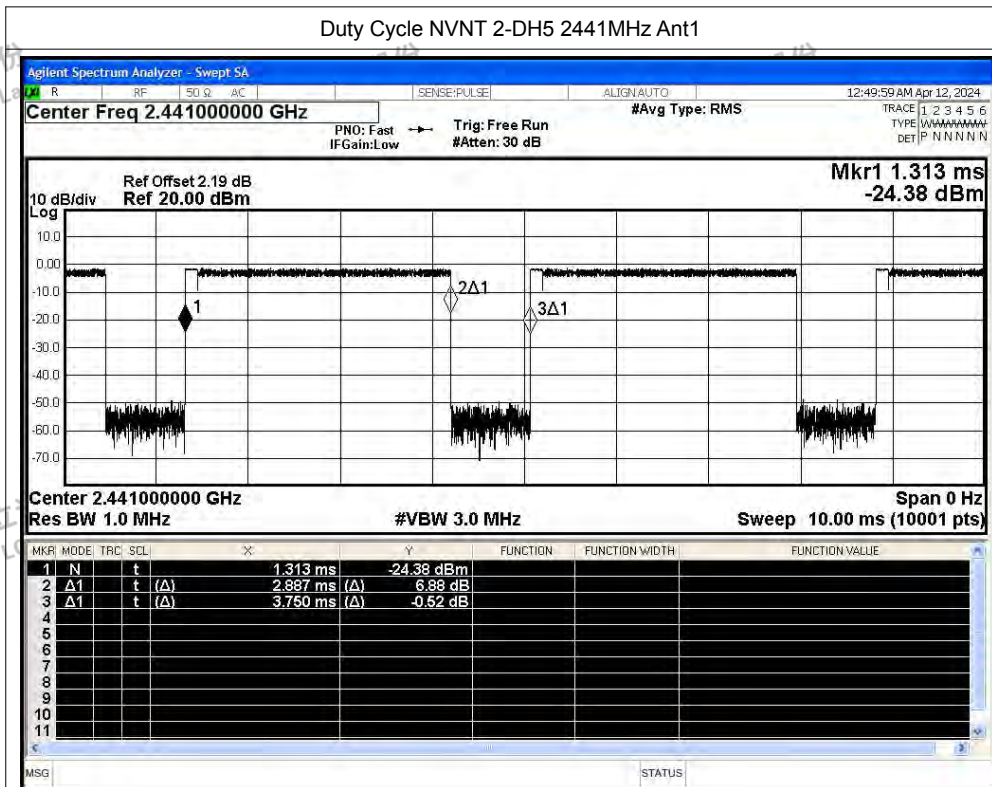
Duty Cycle NVNT 1-DH5 2402MHz Ant1

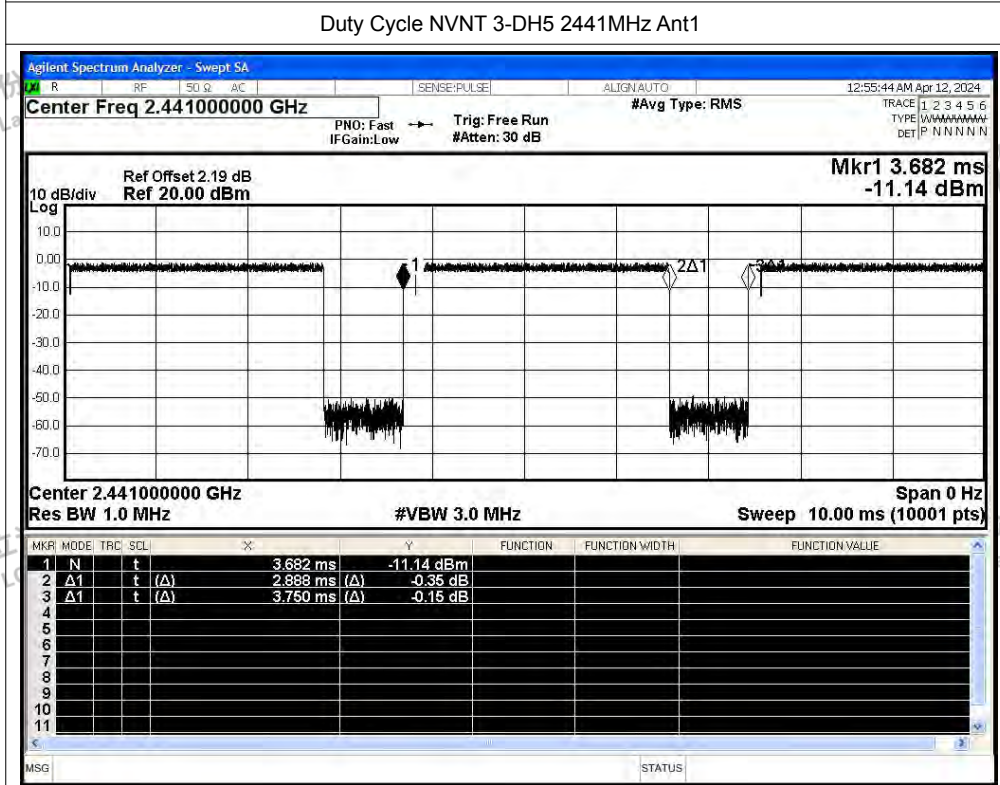
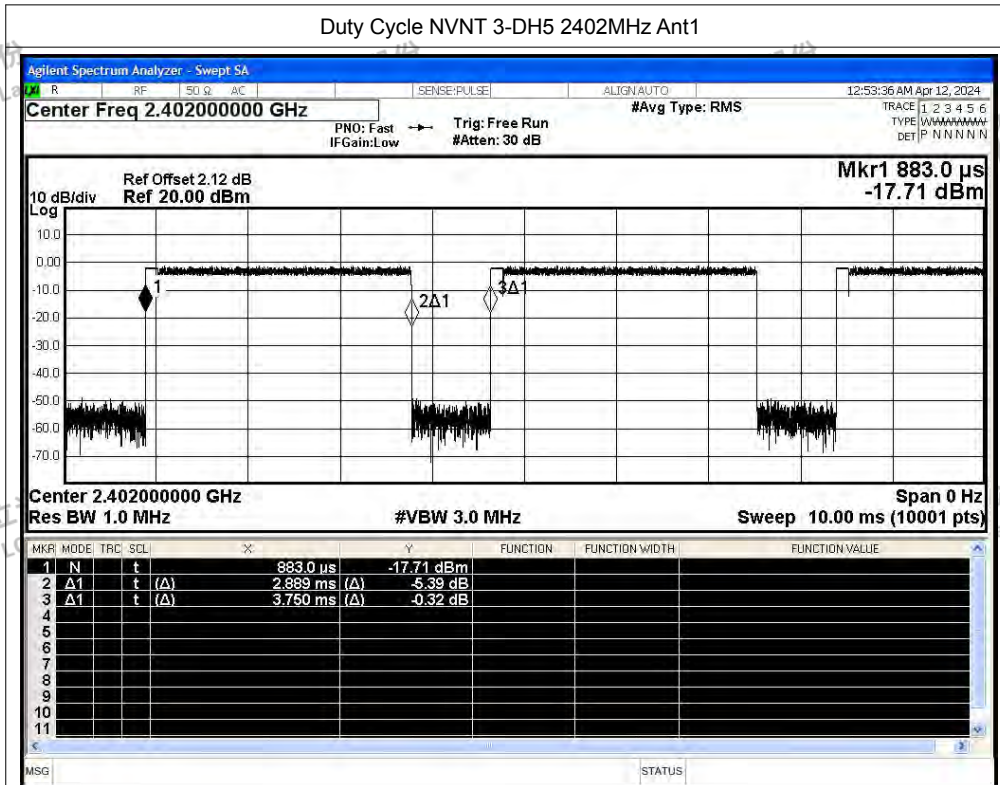


Duty Cycle NVNT 1-DH5 2441MHz Ant1









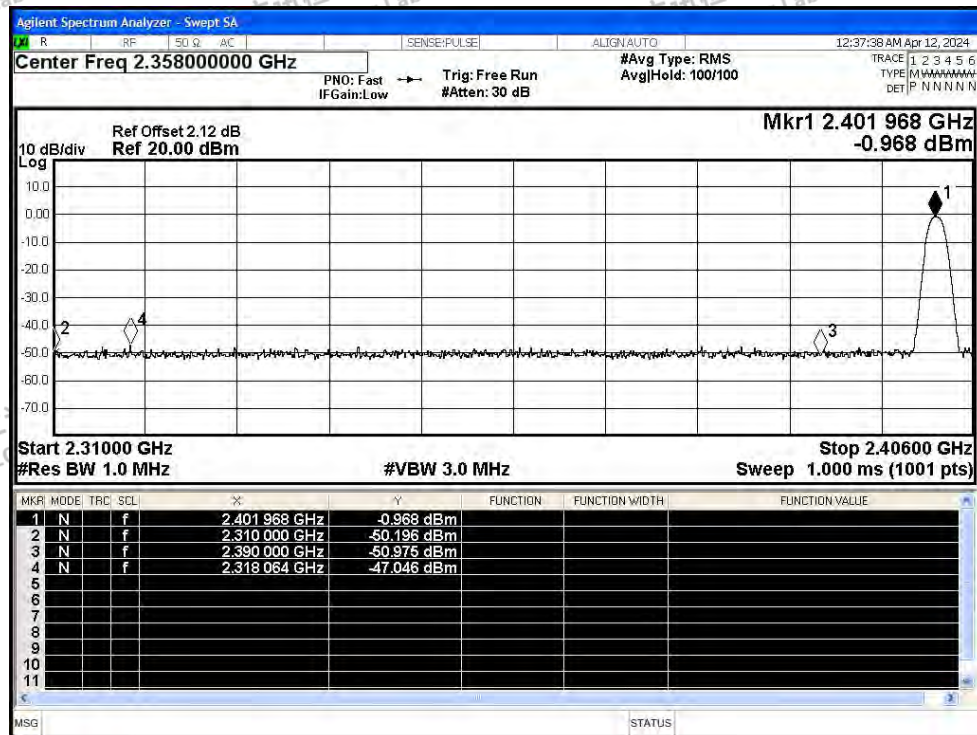


A.9 Restrict Band

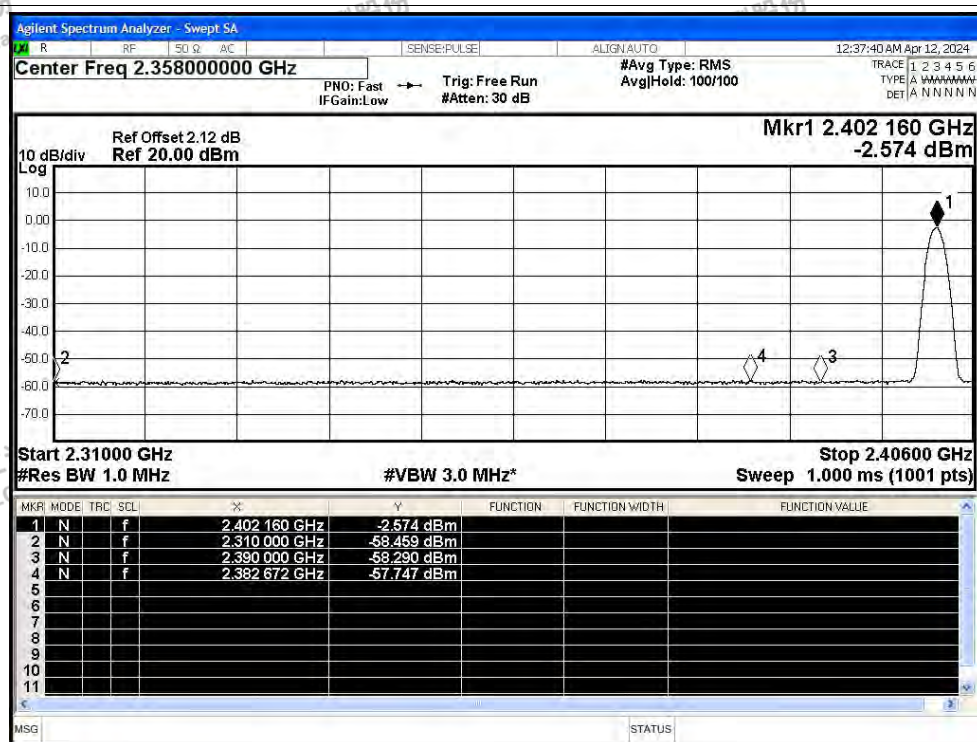
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.2	2	-	47.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.46	2	1.14	39.94	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2318.064	-47.05	2	-	50.21	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.672	-57.75	2	1.14	40.65	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.98	2	-	46.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.29	2	1.14	40.11	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.97	2	-	47.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.54	2	1.14	40.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.704	-46.38	2	-	50.88	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.896	-57.15	2	1.14	41.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.99	2	-	47.27	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.72	2	1.14	40.68	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.29	2	-	47.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.95	2	1.14	39.45	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2345.424	-47.48	2	-	49.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.992	-57.46	2	1.14	40.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.47	2	-	47.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.21	2	1.14	40.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.84	2	-	47.42	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.94	2	1.14	40.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.088	-47.15	2	-	50.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.664	-57.19	2	1.14	41.21	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.74	2	-	47.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.98	2	1.14	40.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.96	2	-	46.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.7	2	1.13	39.69	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2363.376	-47.62	2	-	49.64	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.984	-57.62	2	1.13	40.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.48	2	-	47.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.29	2	1.13	40.1	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	2	-	46.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.71	2	1.13	40.68	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.448	-46.98	2	-	50.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2492.416	-57.08	2	1.13	41.31	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.92	2	-	47.34	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.89	2	1.13	40.5	Average	54	Pass

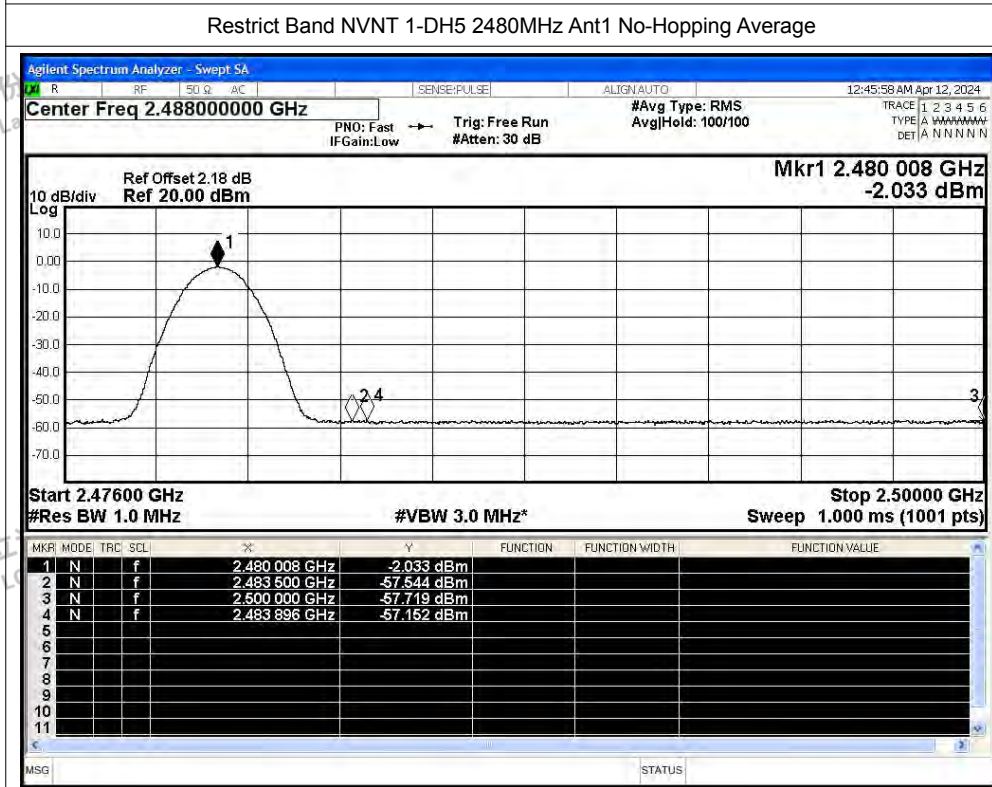
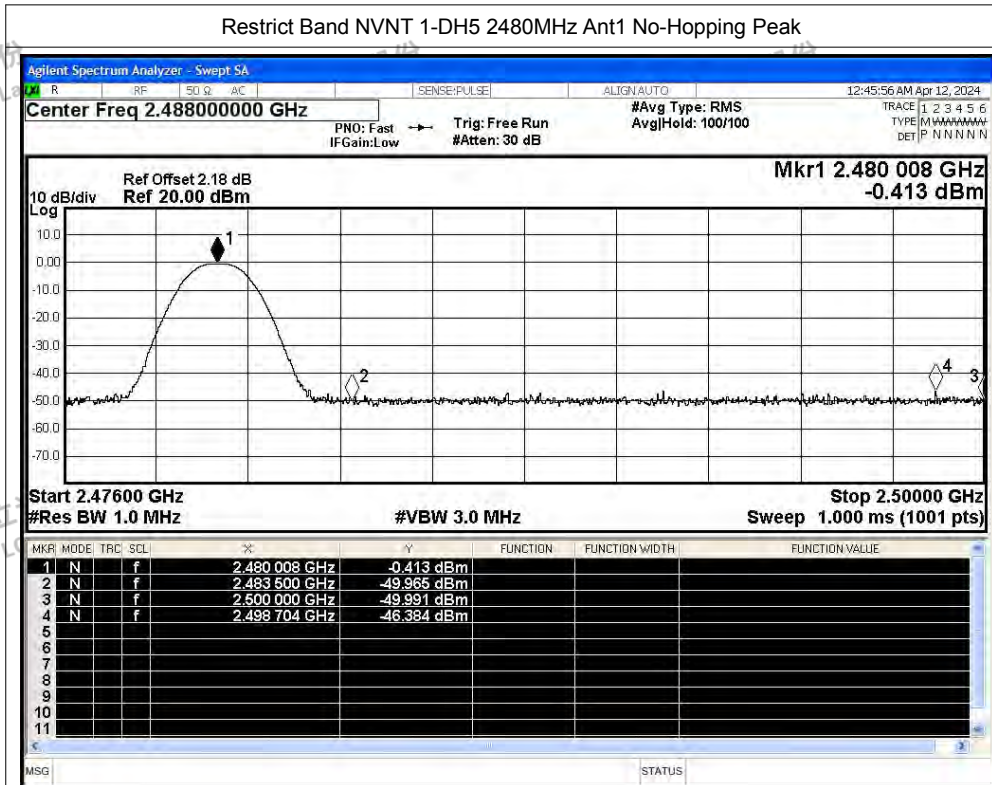
Test Graphs

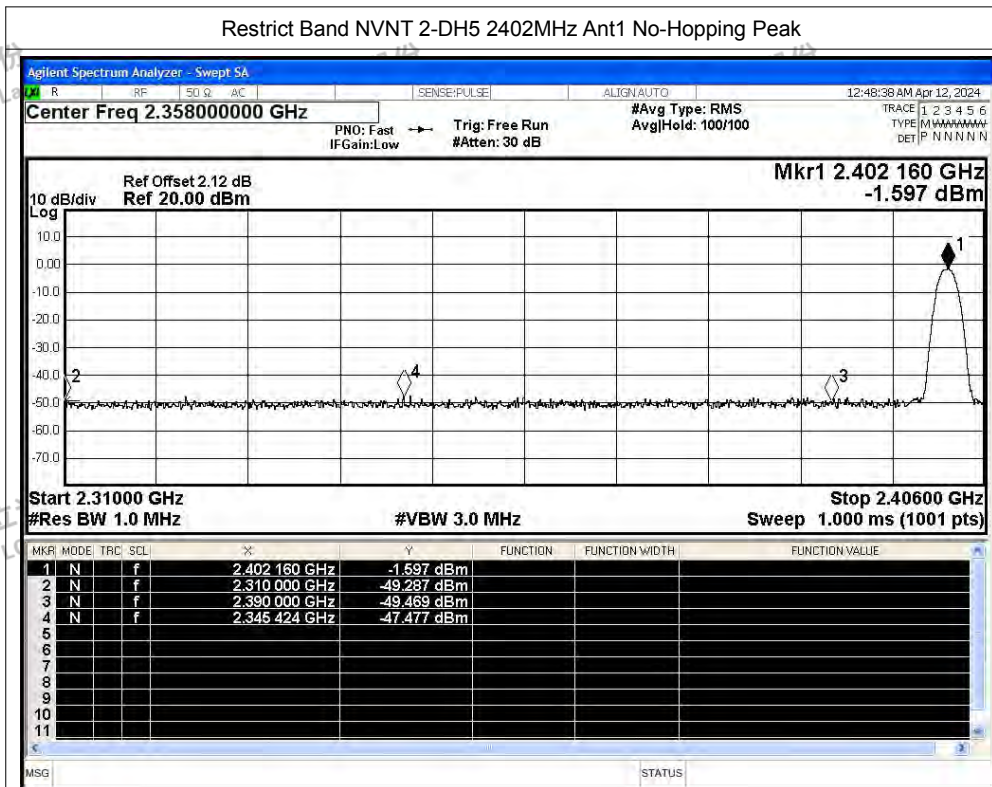
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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







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

