



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Galaxy Projector

Test Model: BM-GP001

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



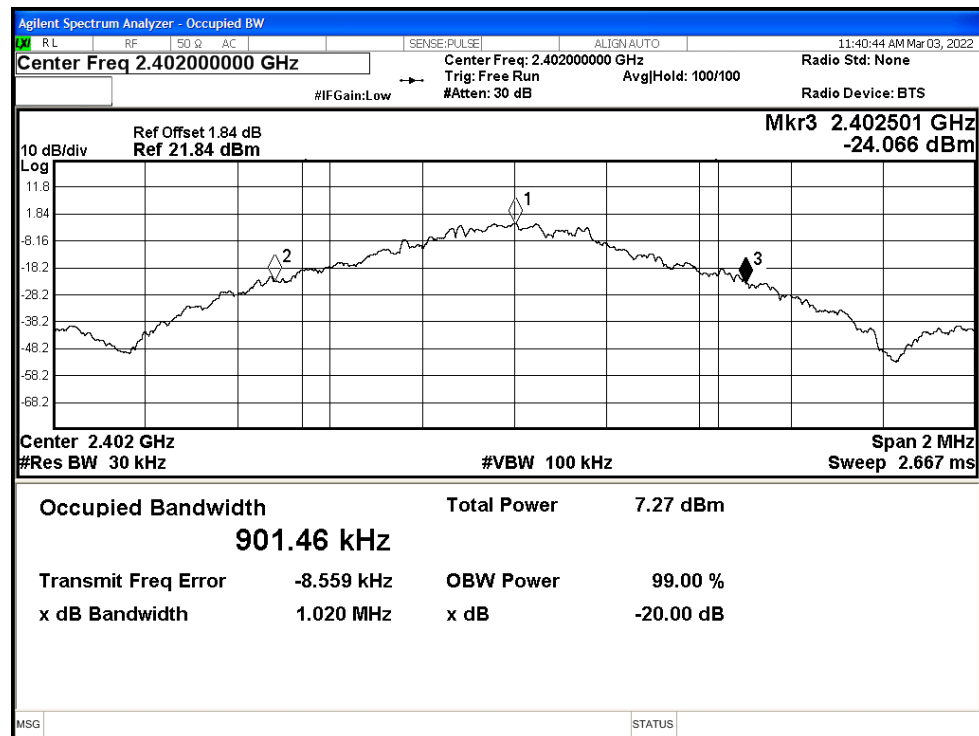
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.02	0	Pass
NVNT	1-DH5	2441	Ant1	1.028	0	Pass
NVNT	1-DH5	2480	Ant1	1.026	0	Pass
NVNT	2-DH5	2402	Ant1	1.326	0	Pass
NVNT	2-DH5	2441	Ant1	1.322	0	Pass
NVNT	2-DH5	2480	Ant1	1.288	0	Pass



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

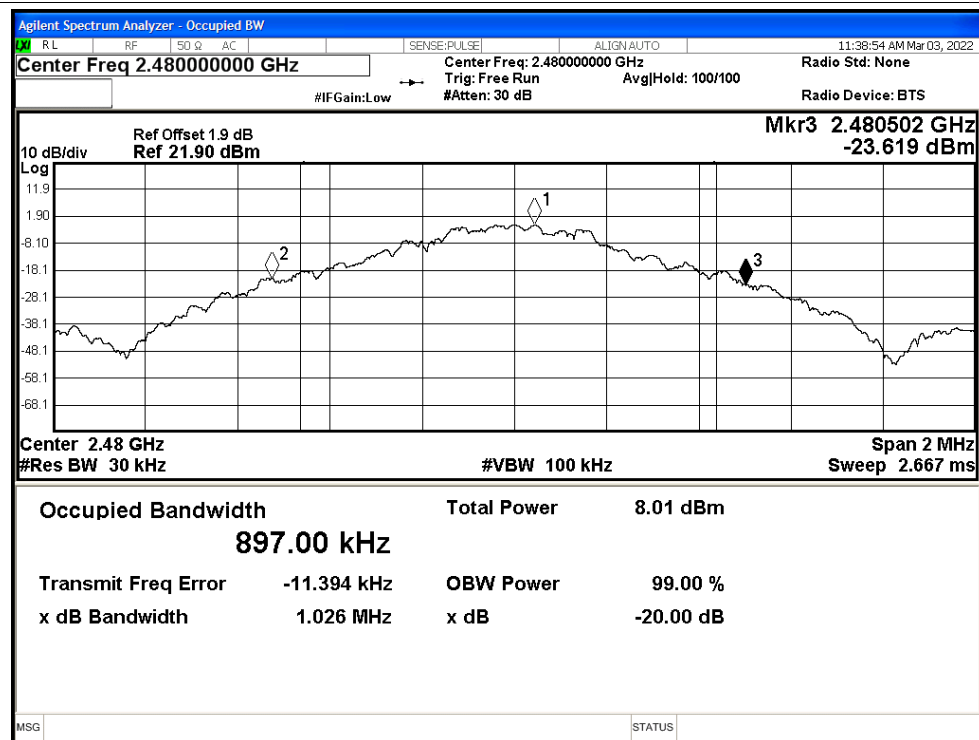


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

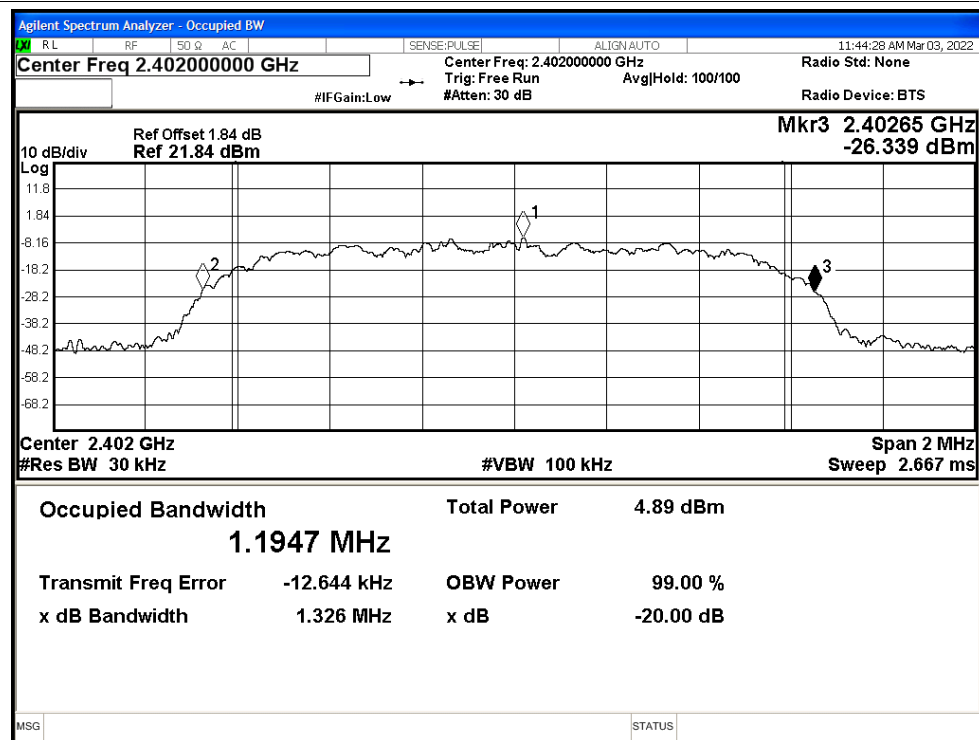




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

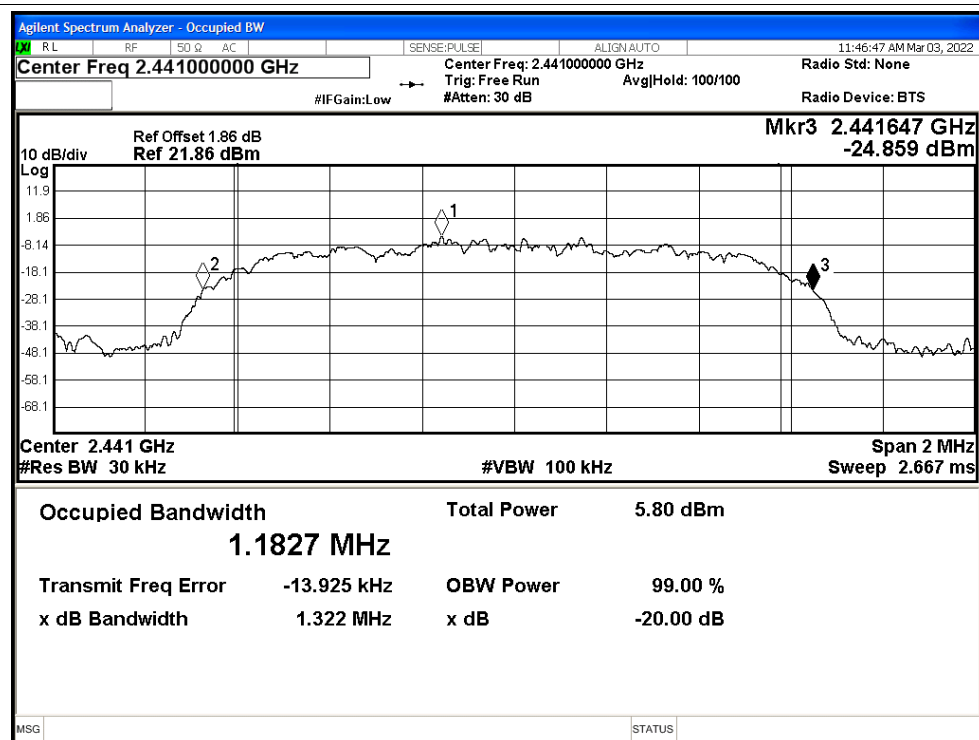


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

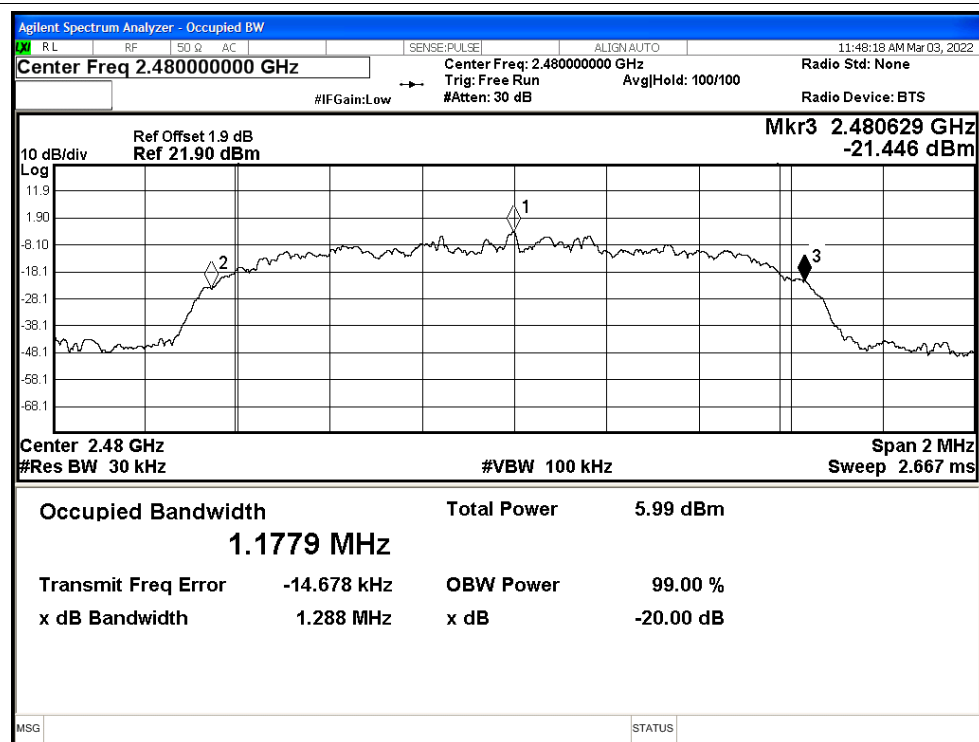




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





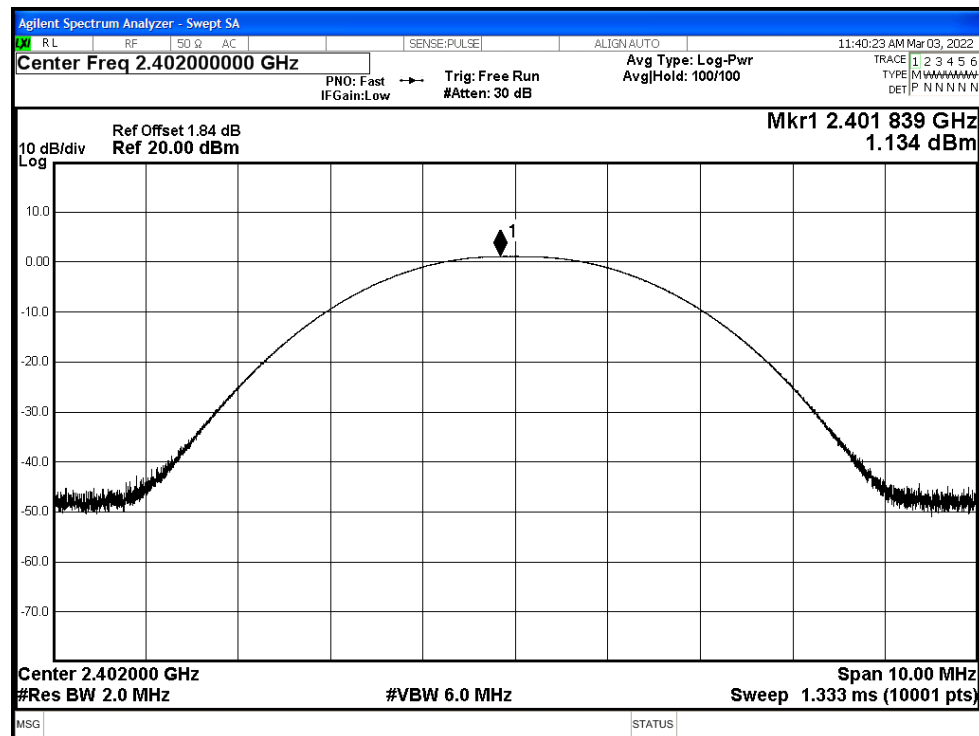
A.2 Maximum Peak Conducted Output Power

Condition	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2402	Ant1	1.13	0	1.13	21	Pass
NVNT	2441	Ant1	1.67	0	1.67	21	Pass
NVNT	2480	Ant1	1.63	0	1.63	21	Pass
NVNT	2402	Ant1	0.95	0	0.95	21	Pass
NVNT	2441	Ant1	1.51	0	1.51	21	Pass
NVNT	2480	Ant1	1.37	0	1.37	21	Pass

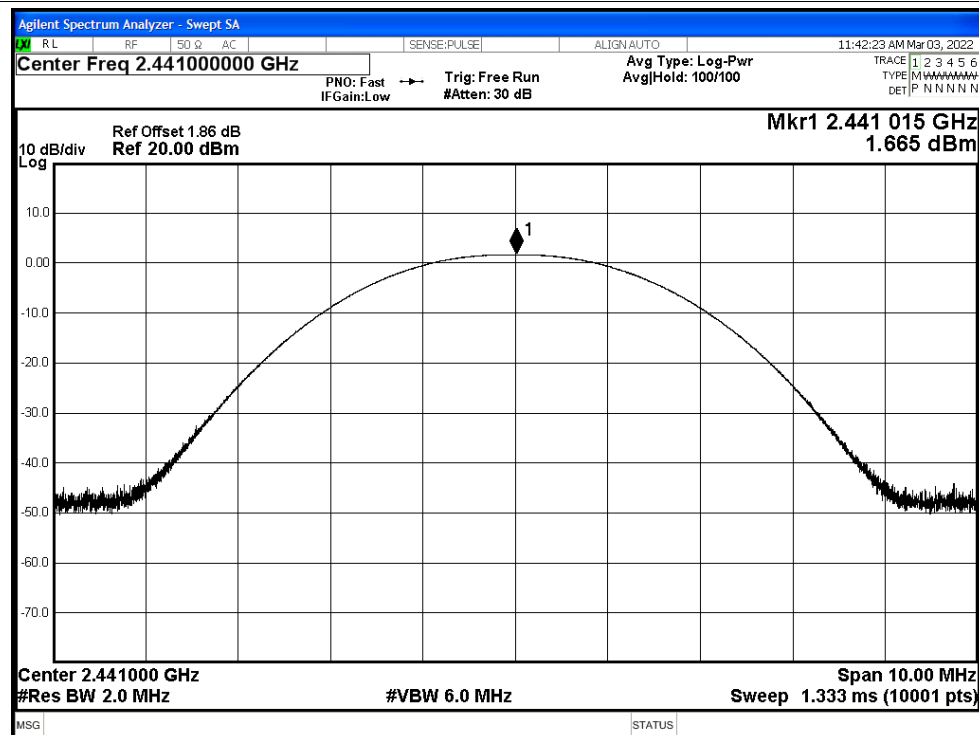


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

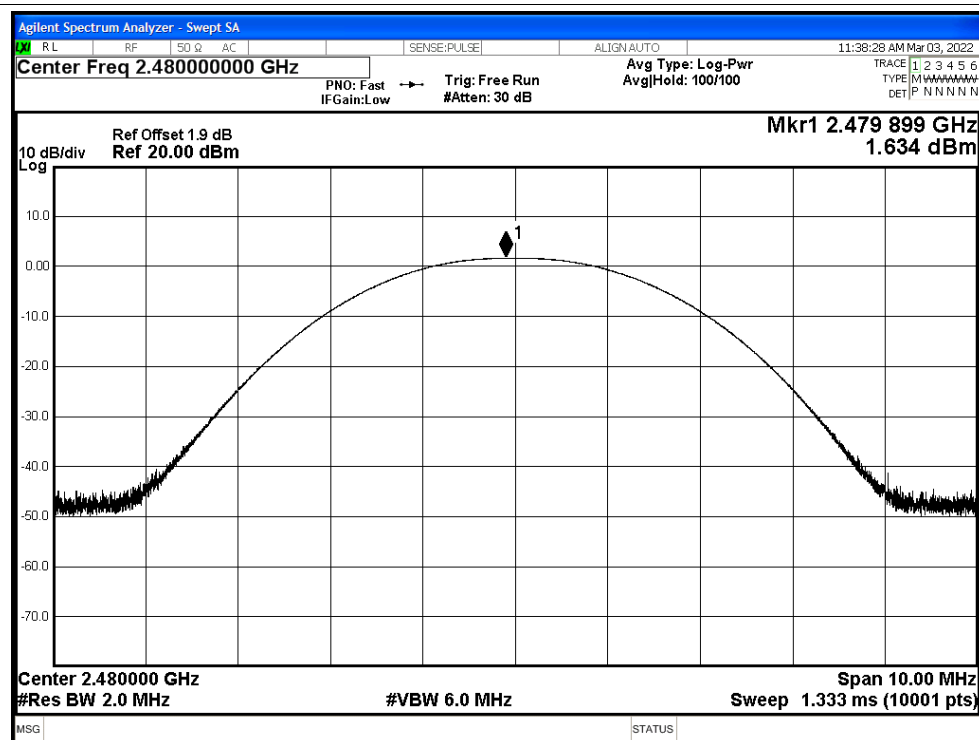


Power NVNT 1-DH5 2441MHz Ant1

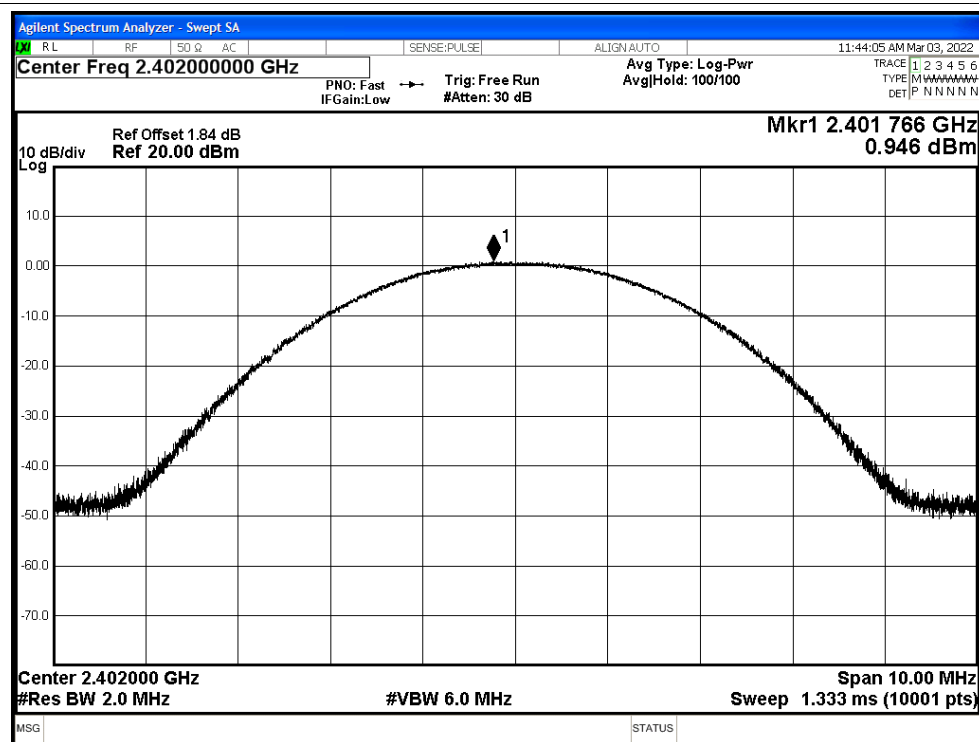




Power NVNT 1-DH5 2480MHz Ant1

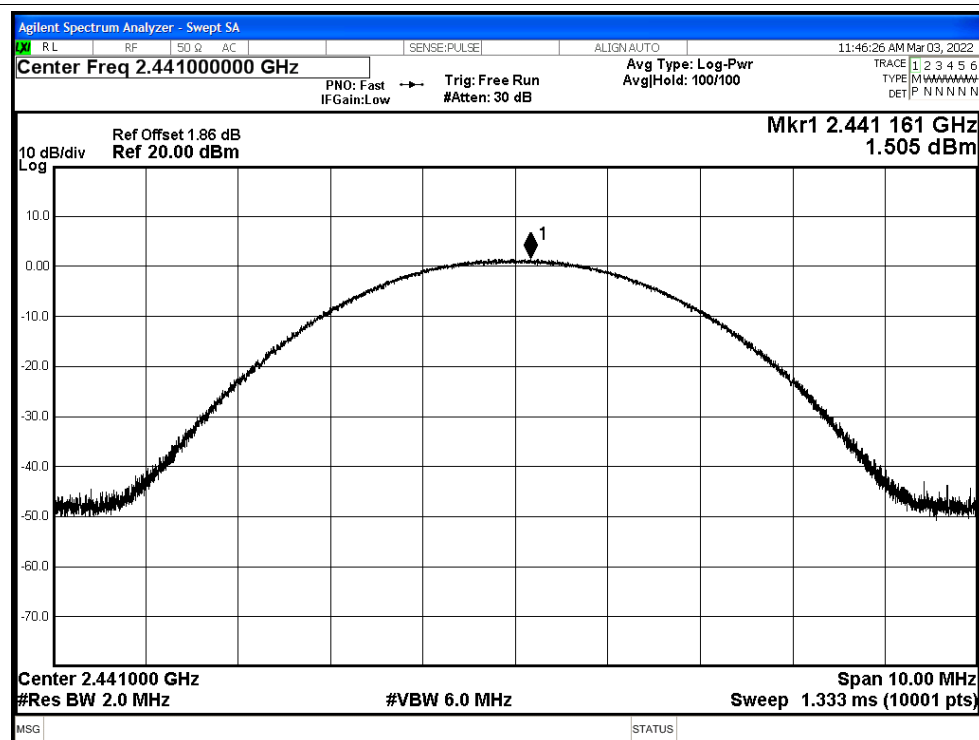


Power NVNT 2-DH5 2402MHz Ant1

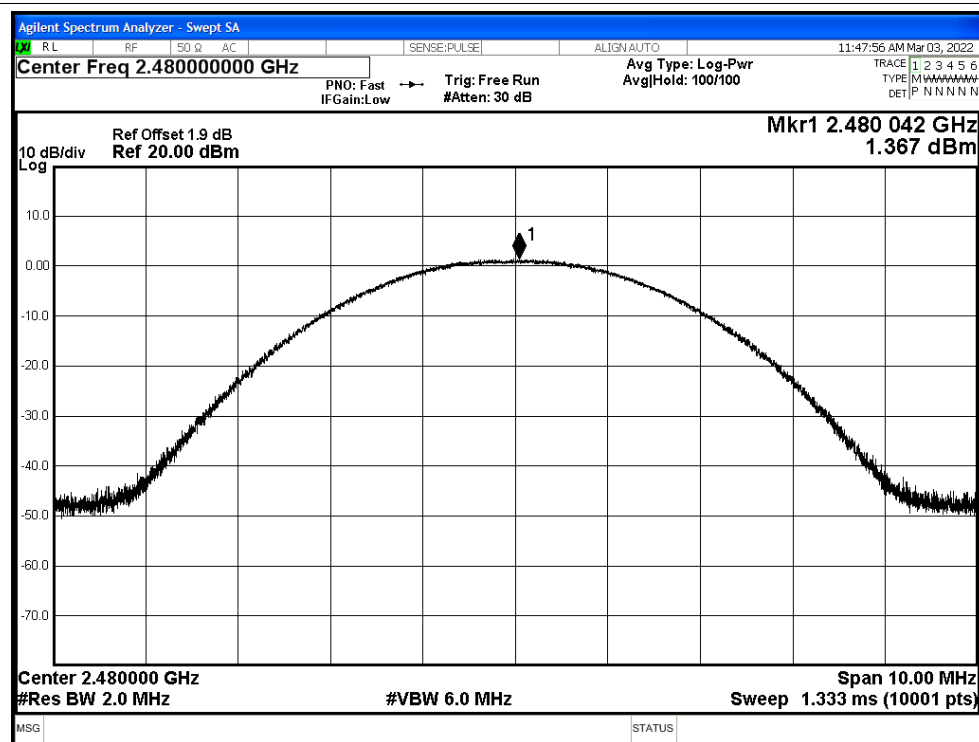




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





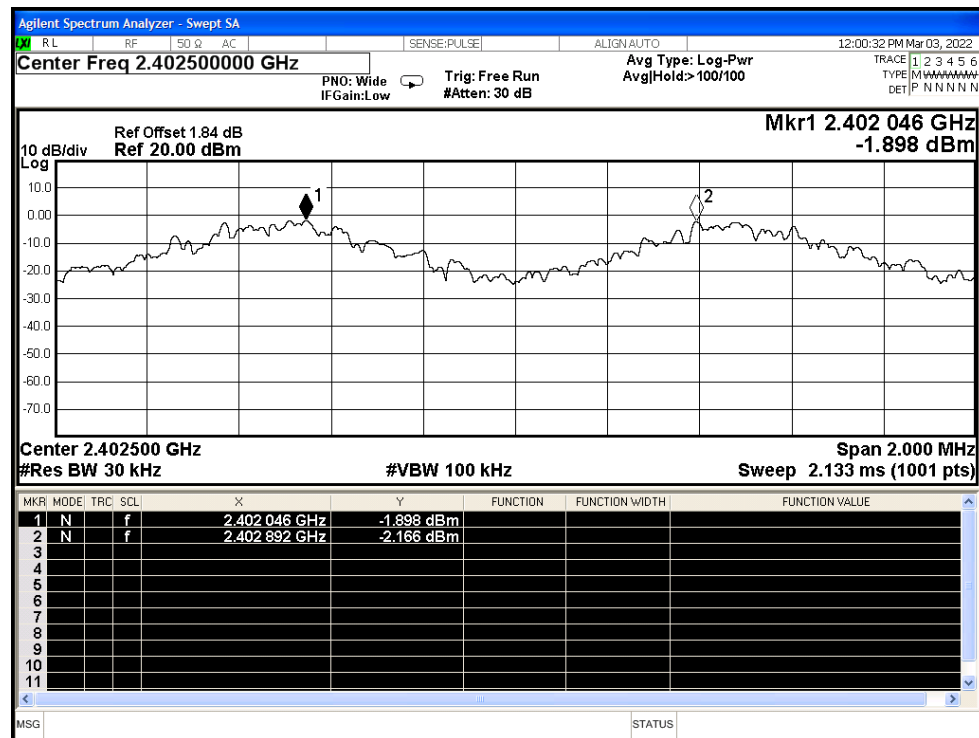
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.046	2402.892	0.846	0.68	Pass
NVNT	1-DH5	Ant1	2441.008	2441.986	0.978	0.685	Pass
NVNT	1-DH5	Ant1	2478.968	2480.048	1.08	0.684	Pass
NVNT	2-DH5	Ant1	2401.862	2402.862	1	0.884	Pass
NVNT	2-DH5	Ant1	2441.002	2442	0.998	0.881	Pass
NVNT	2-DH5	Ant1	2478.994	2480.072	1.078	0.859	Pass

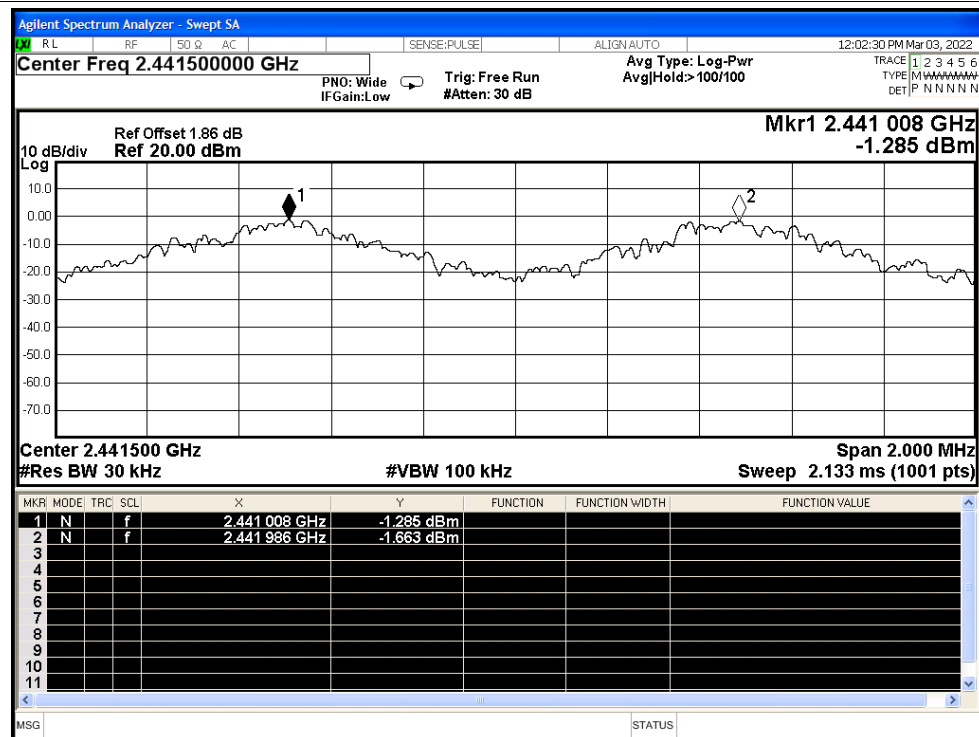


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1

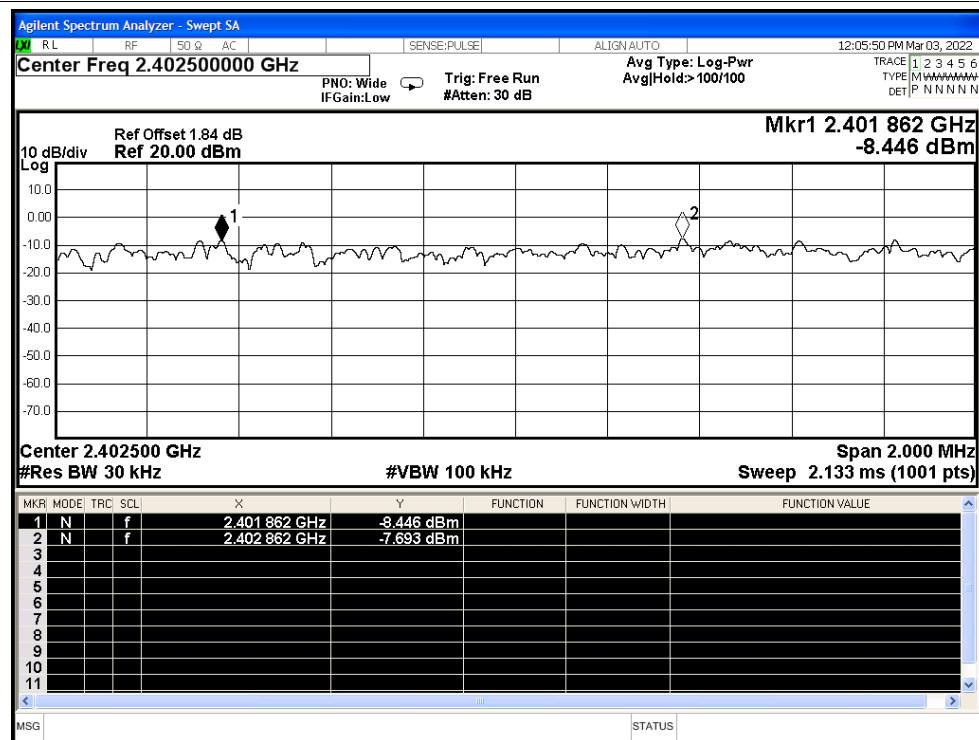




CFS NVNT 1-DH5 2480MHz Ant1

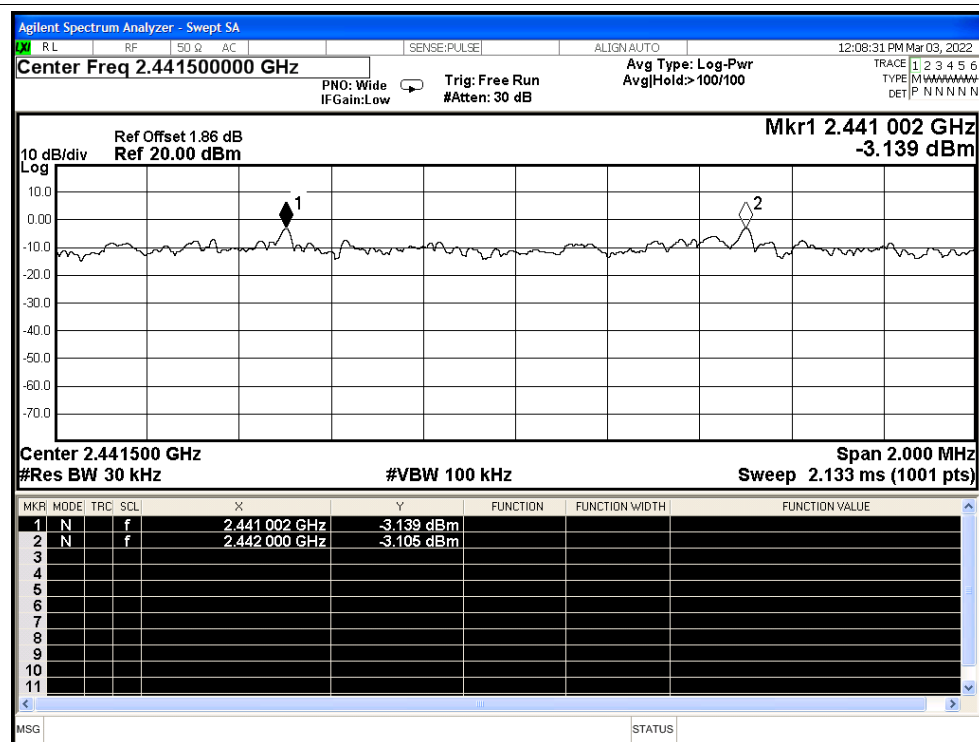


CFS NVNT 2-DH5 2402MHz Ant1

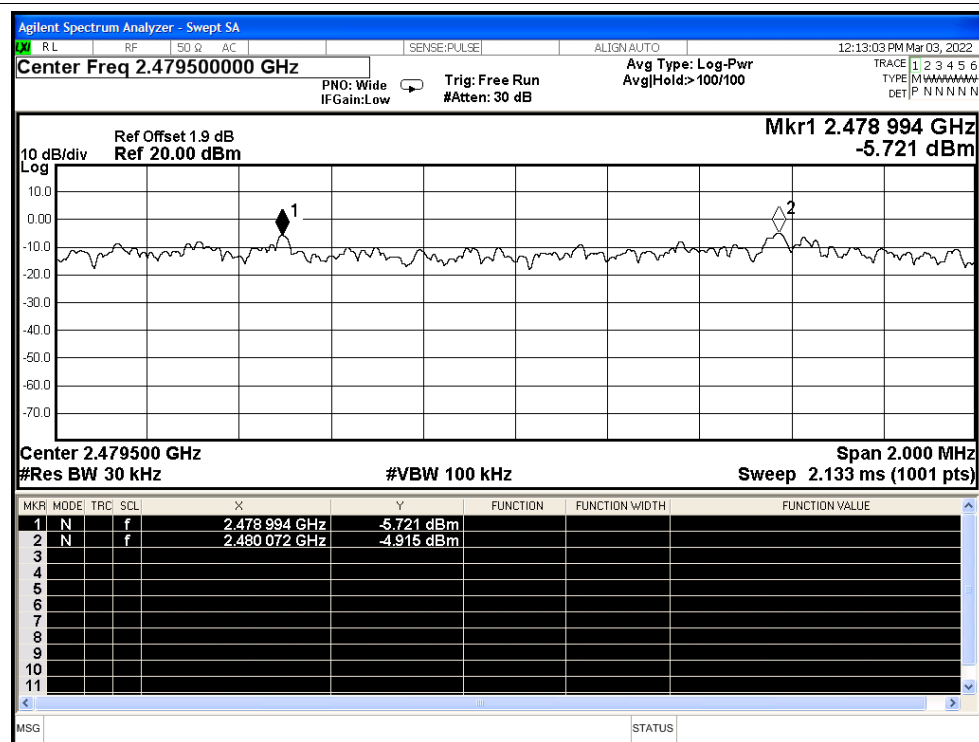




CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1





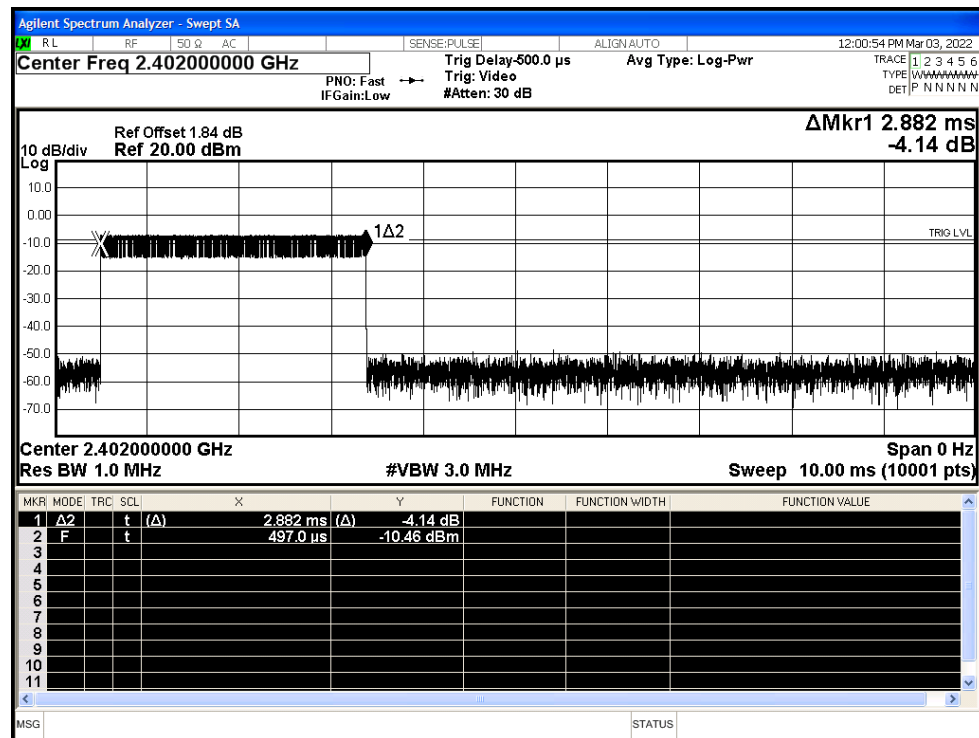
A.4 Dwell Time

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	325.666	113	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.88	311.04	108	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	279.554	97	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	297.155	103	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	320.235	111	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	311.364	108	31600	400	Pass

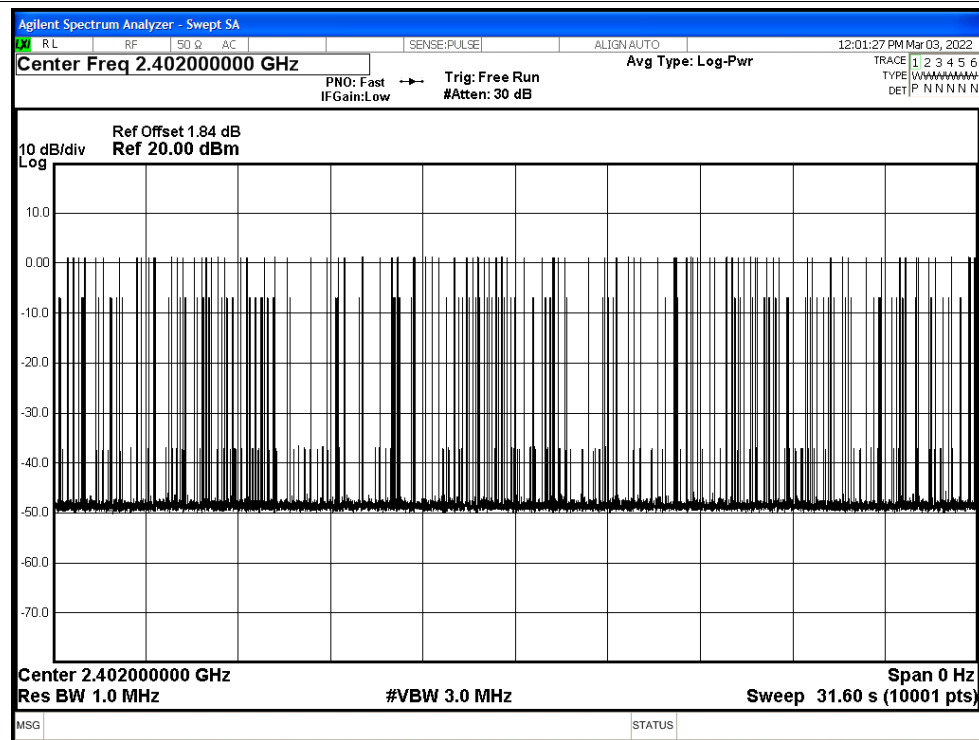


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

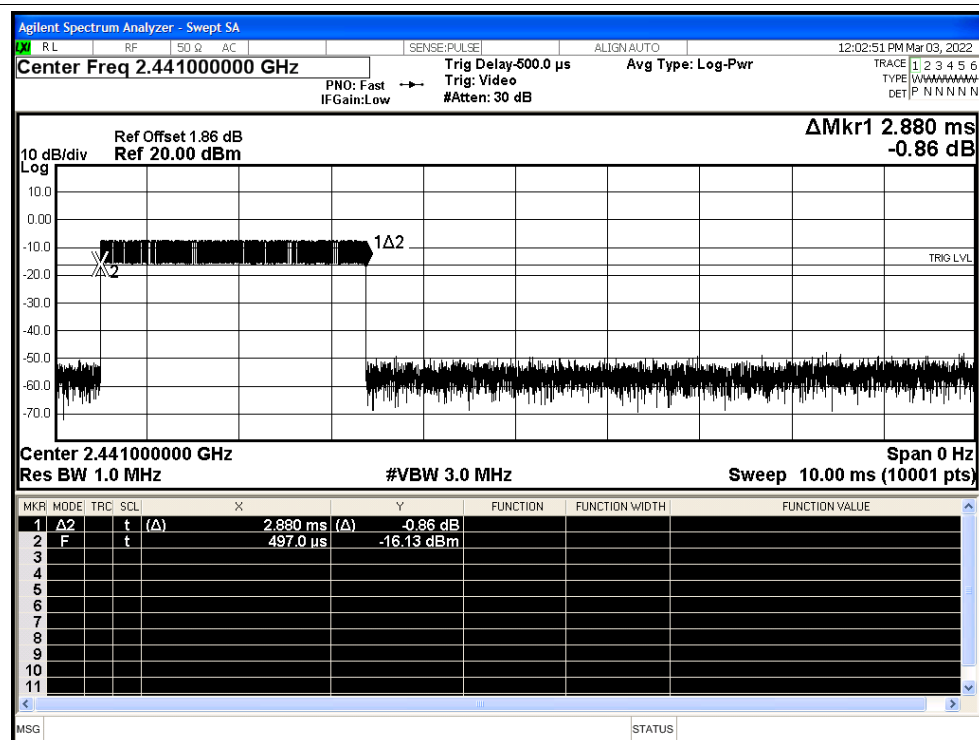


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

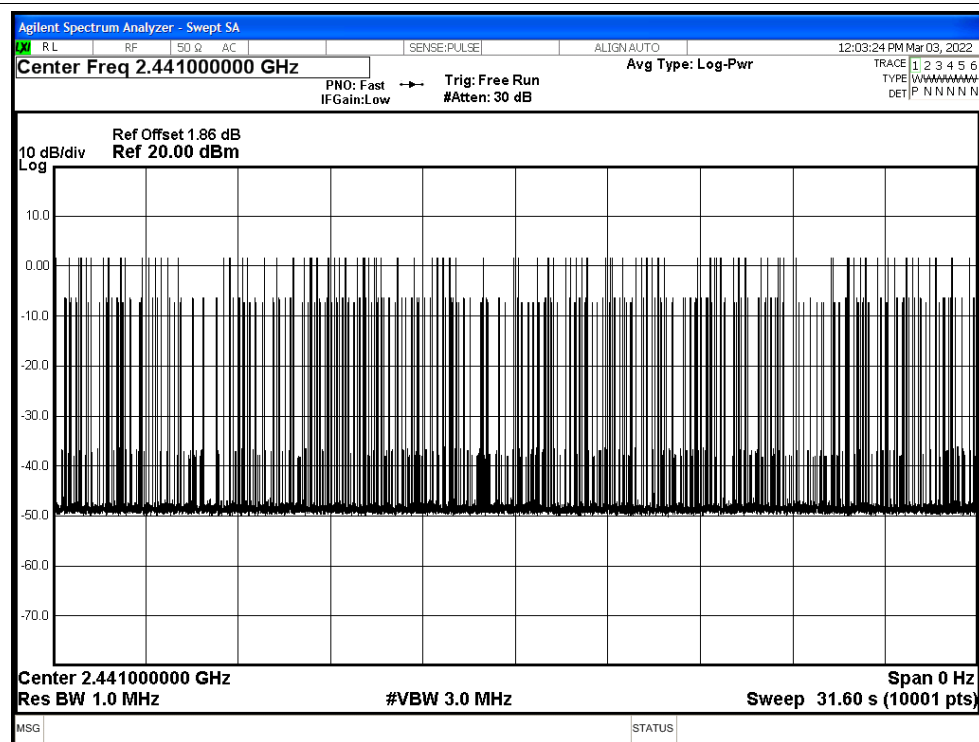




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

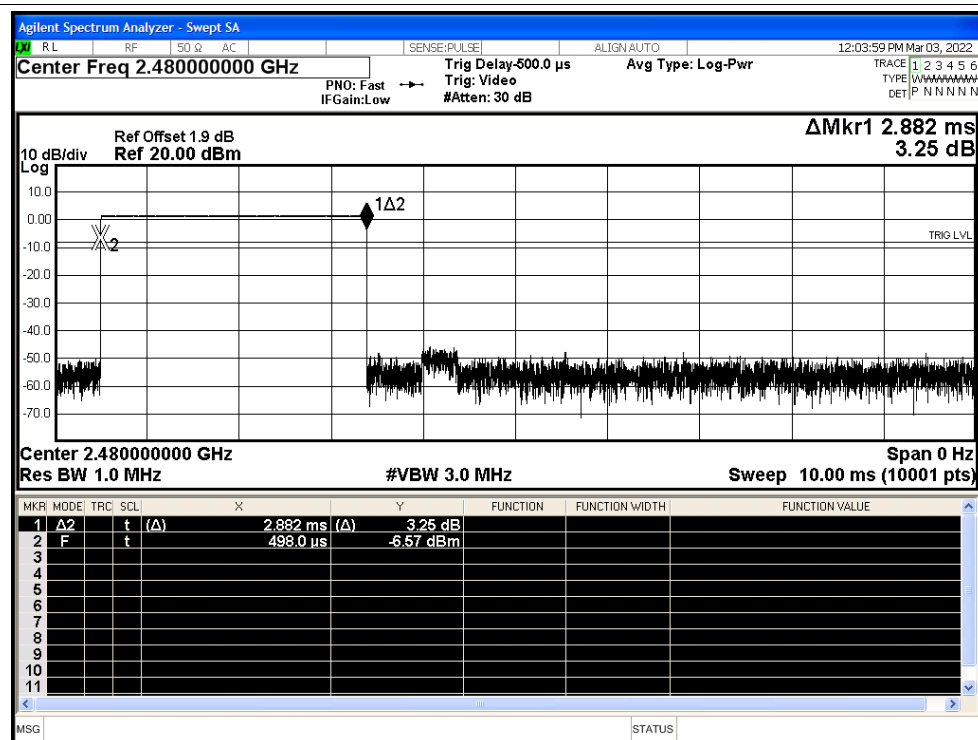


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

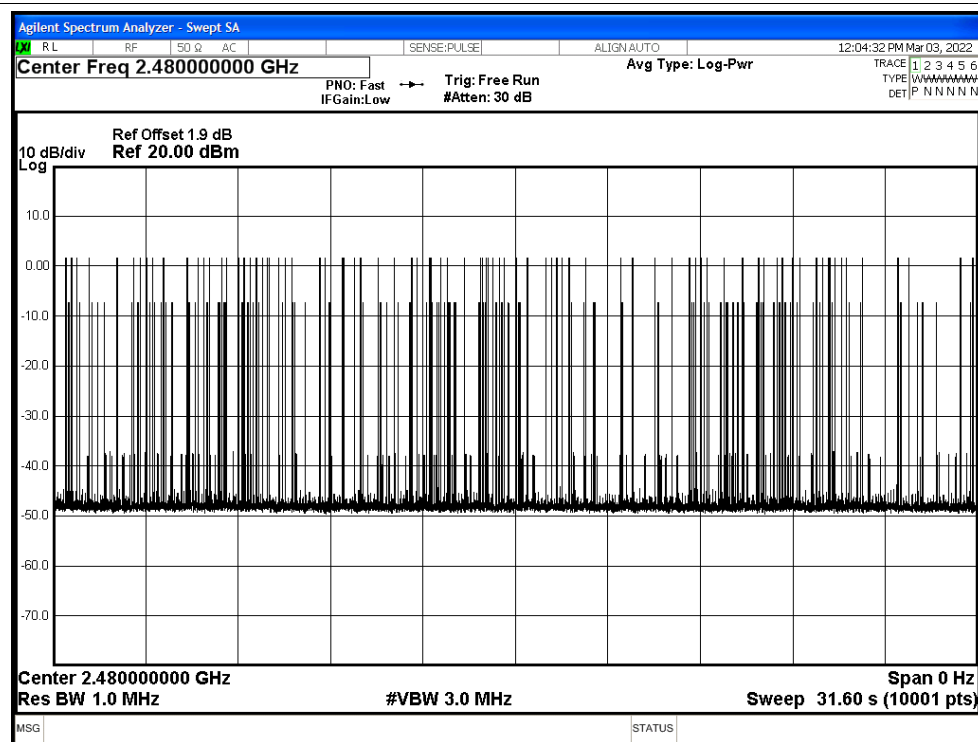




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

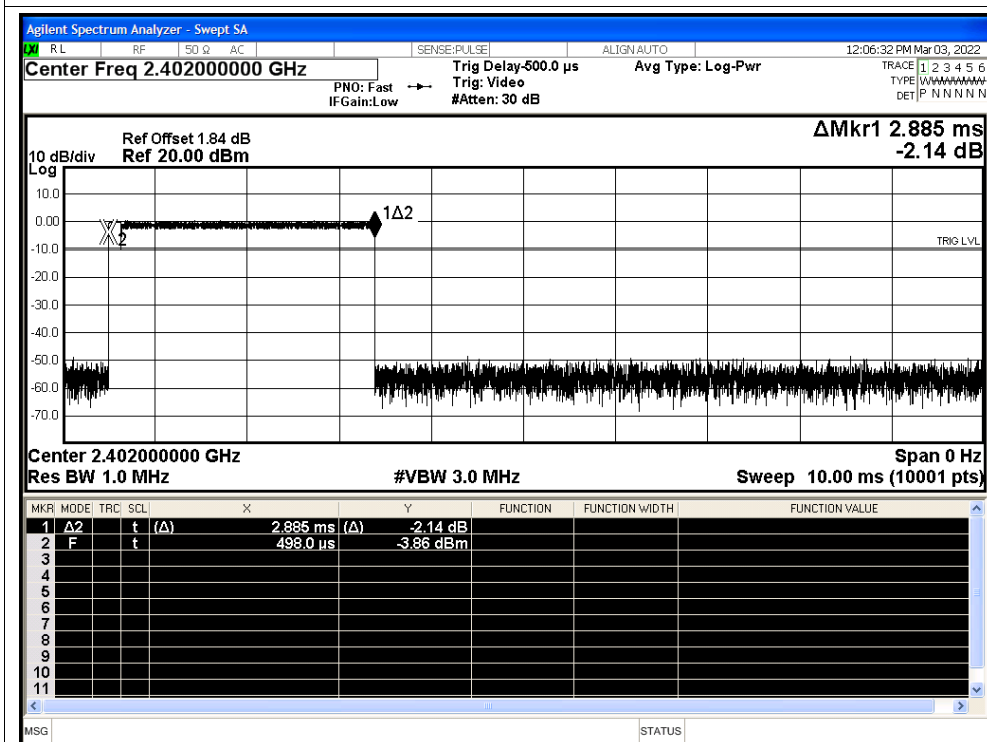


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

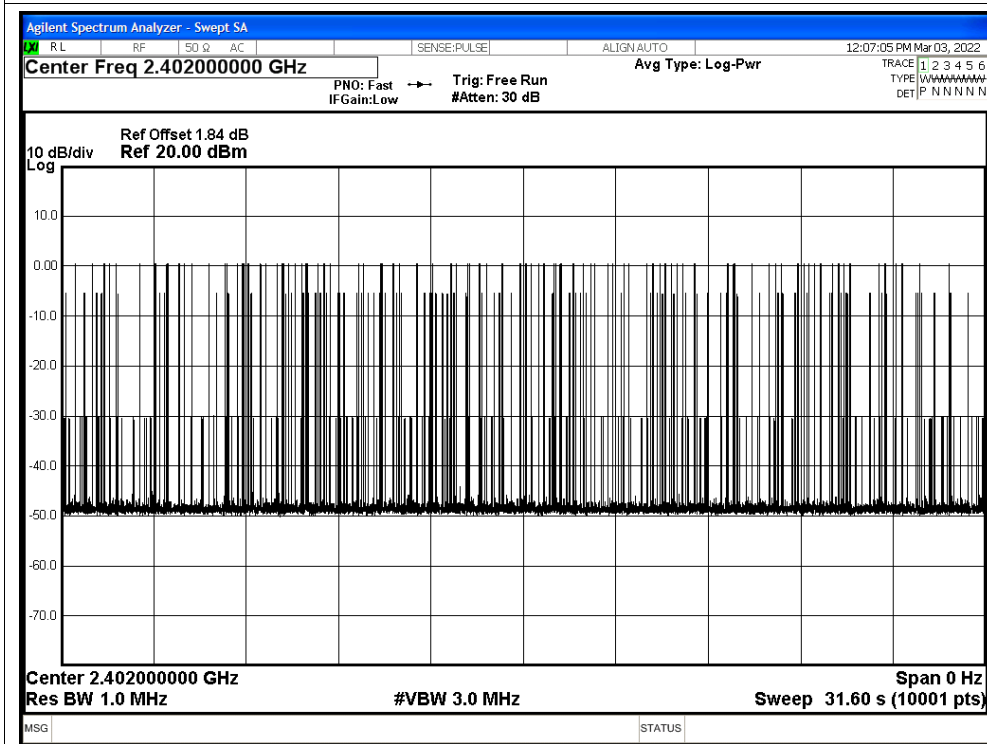




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

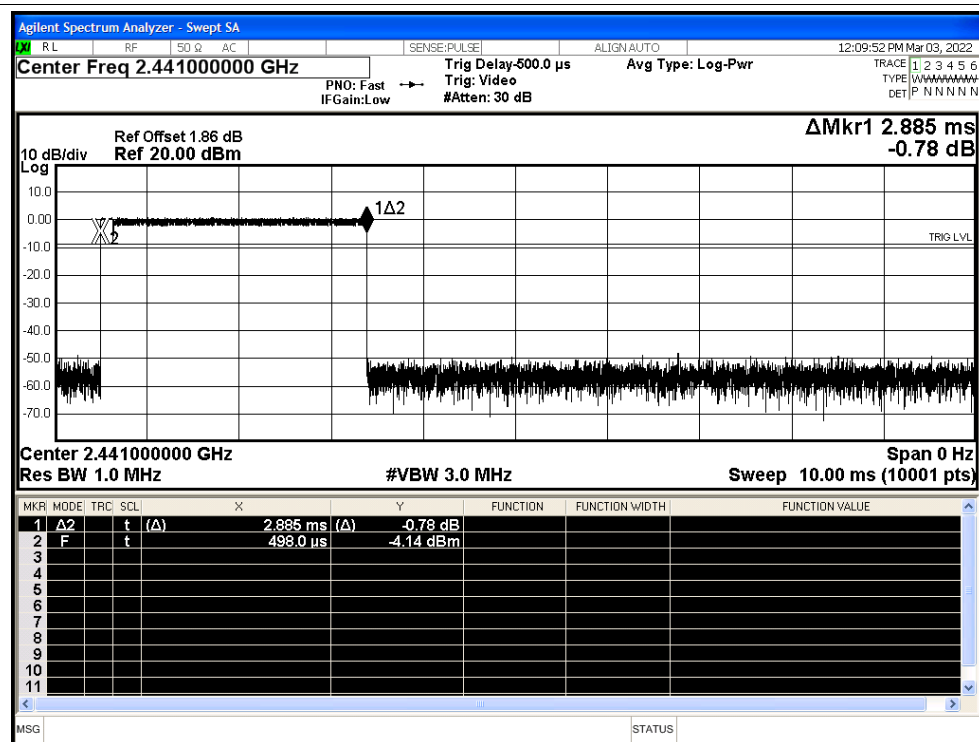


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

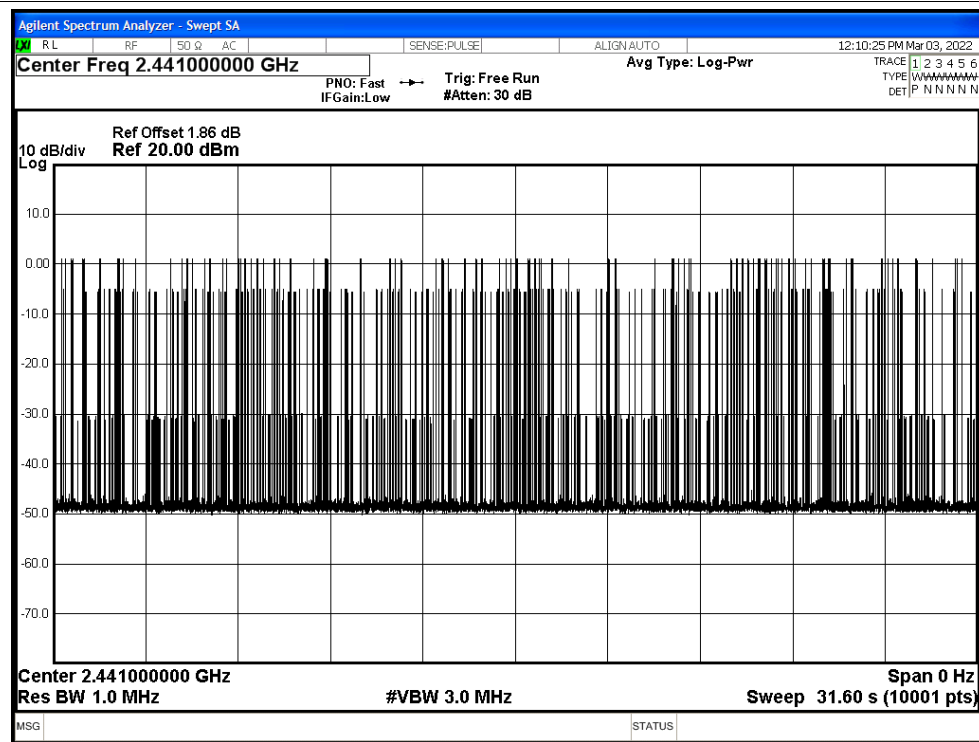




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

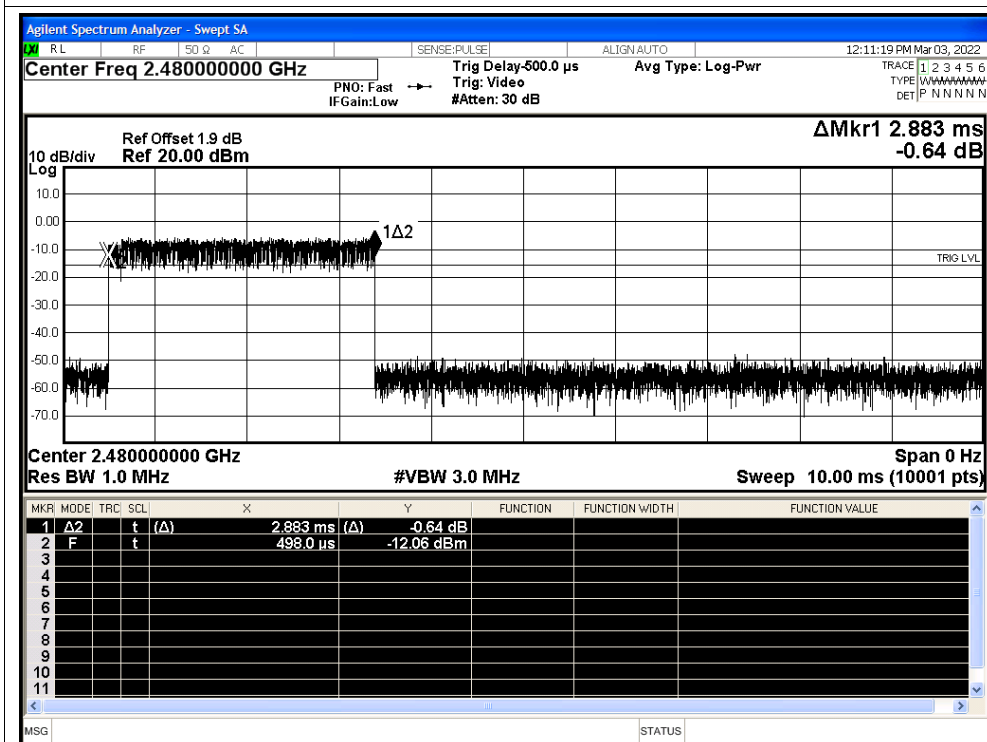


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

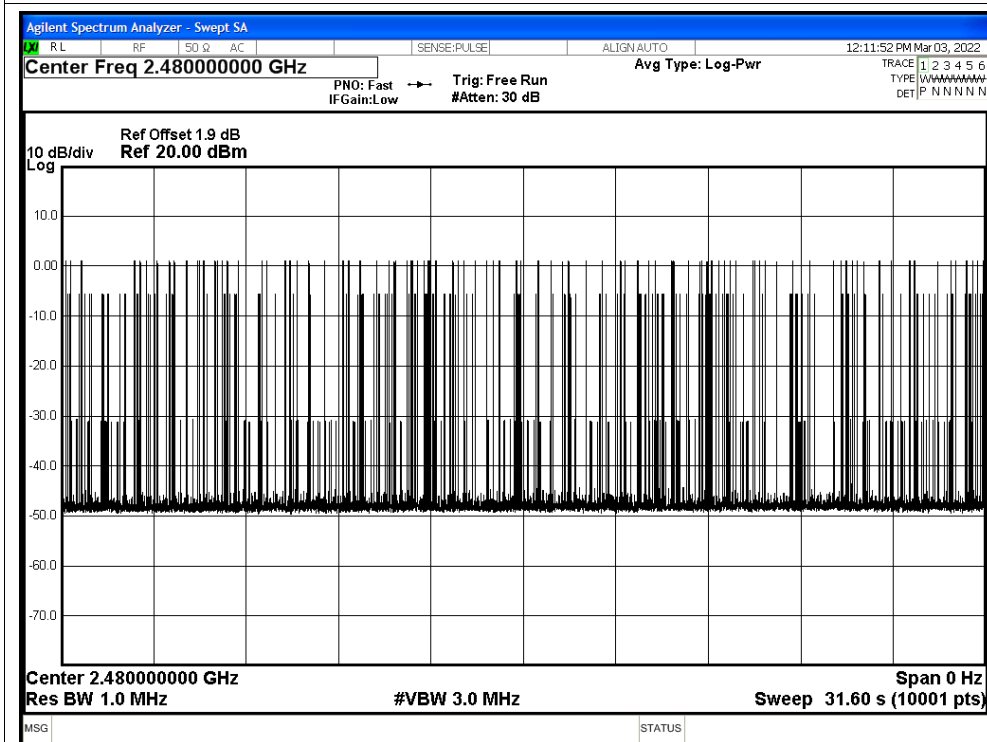




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated





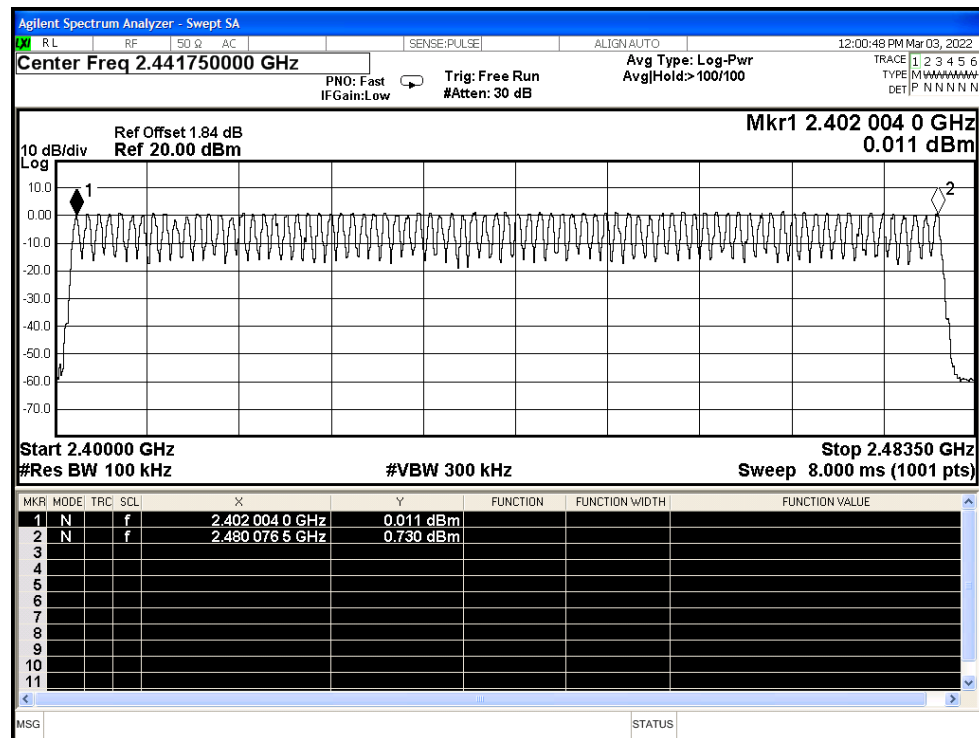
A.5 Number of Hopping Channel

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

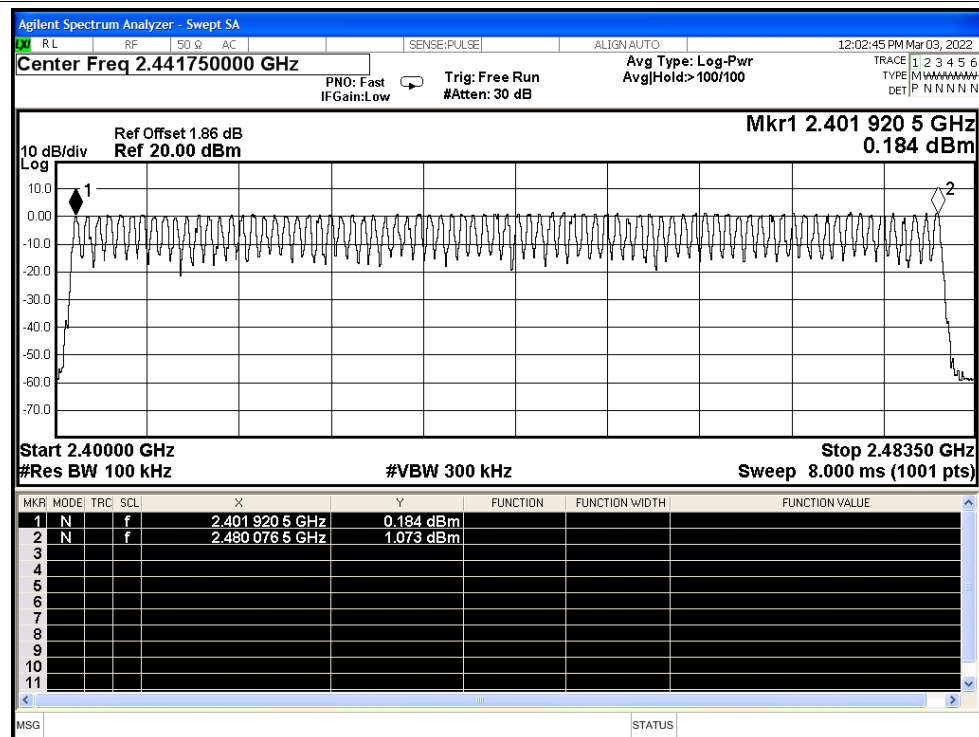


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

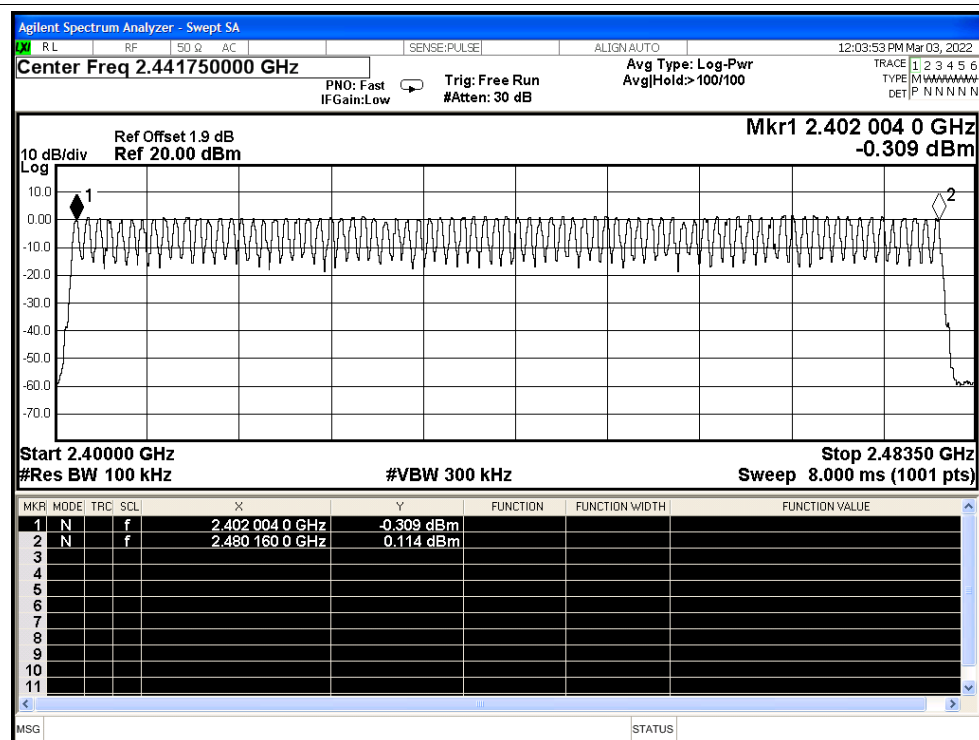


Hopping No. NVNT 1-DH5 2441MHz Ant1

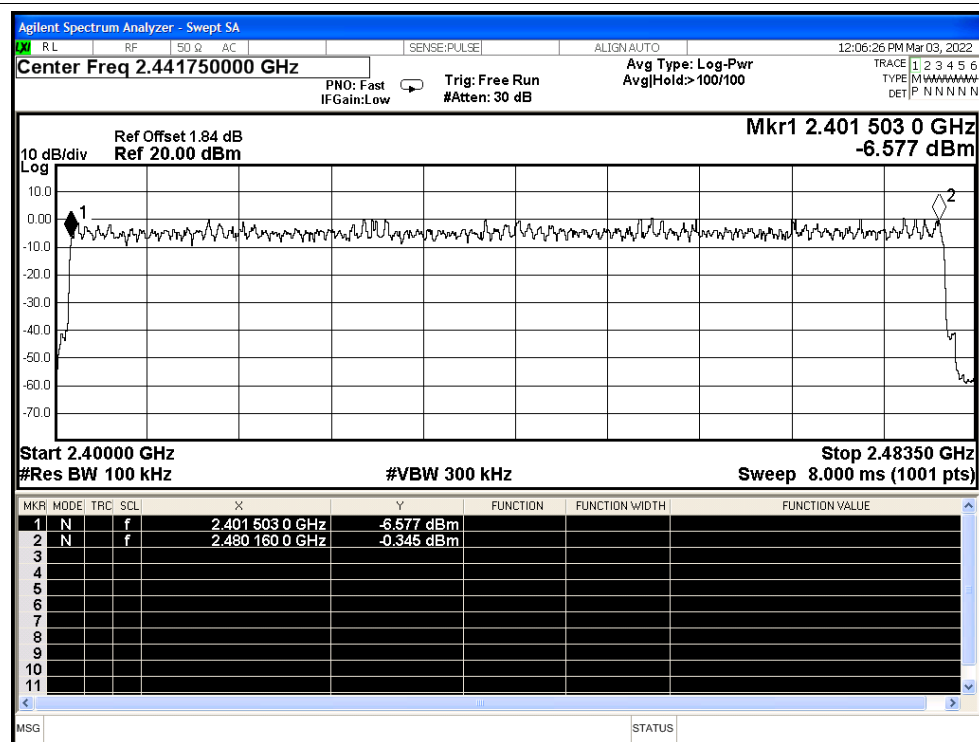




Hopping No. NVNT 1-DH5 2480MHz Ant1

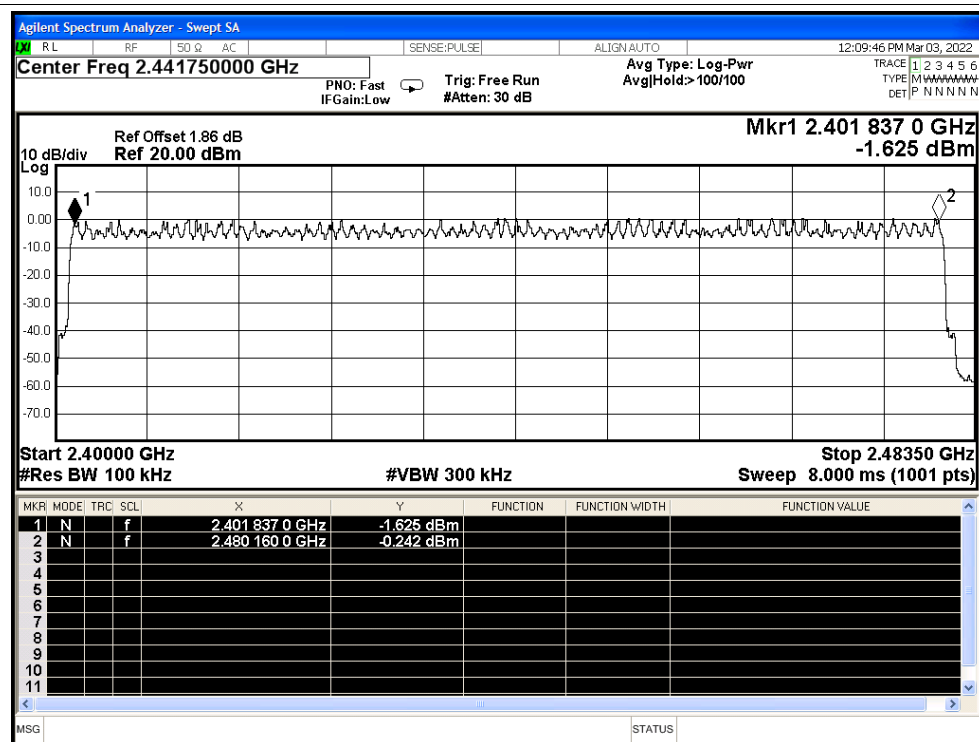


Hopping No. NVNT 2-DH5 2402MHz Ant1

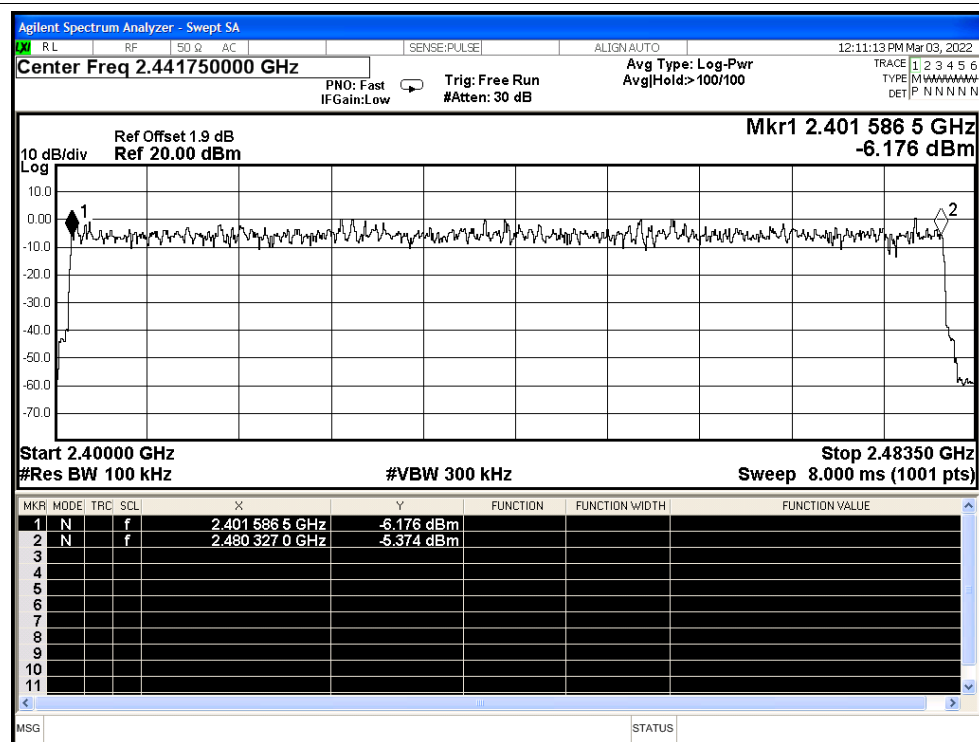




Hopping No. NVNT 2-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2480MHz Ant1





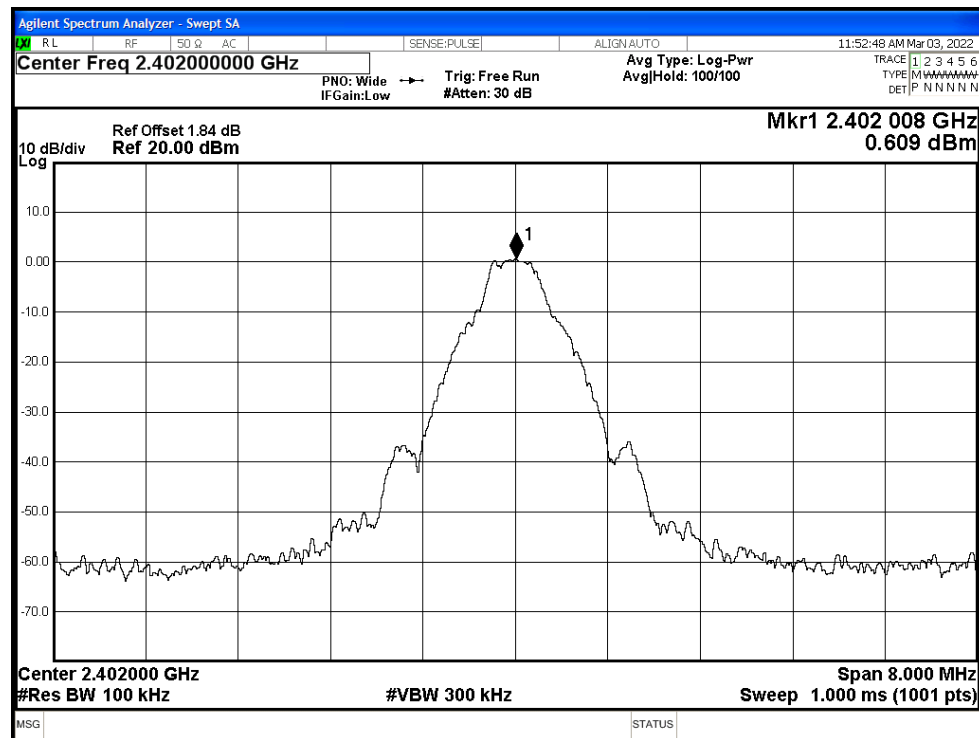
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.75	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.45	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.24	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.05	-20	Pass

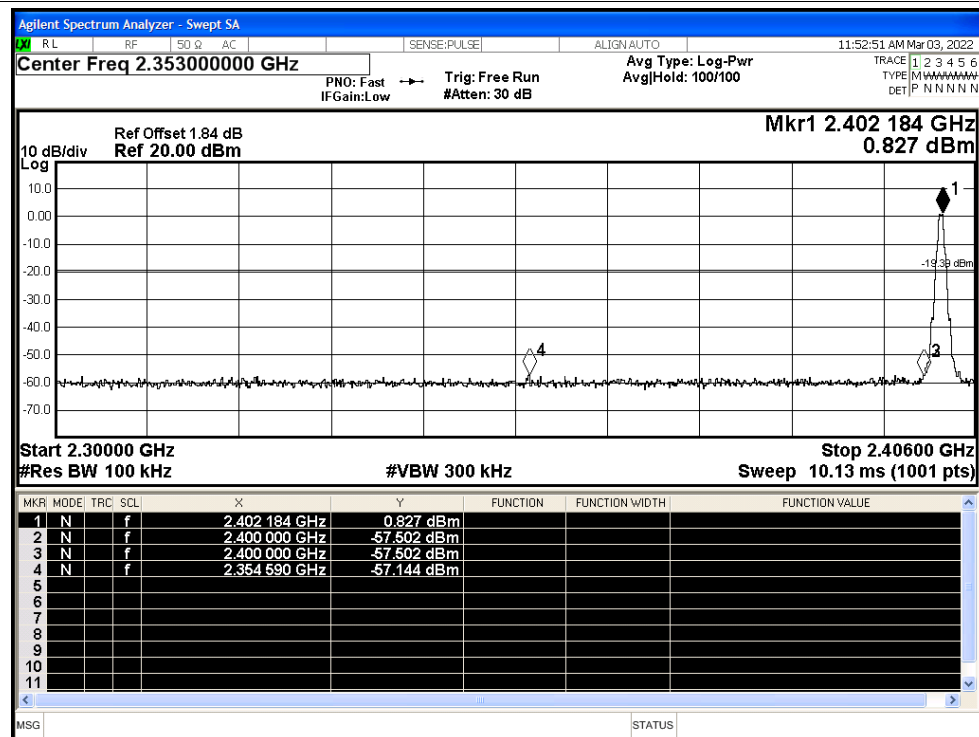


Test Graphs

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

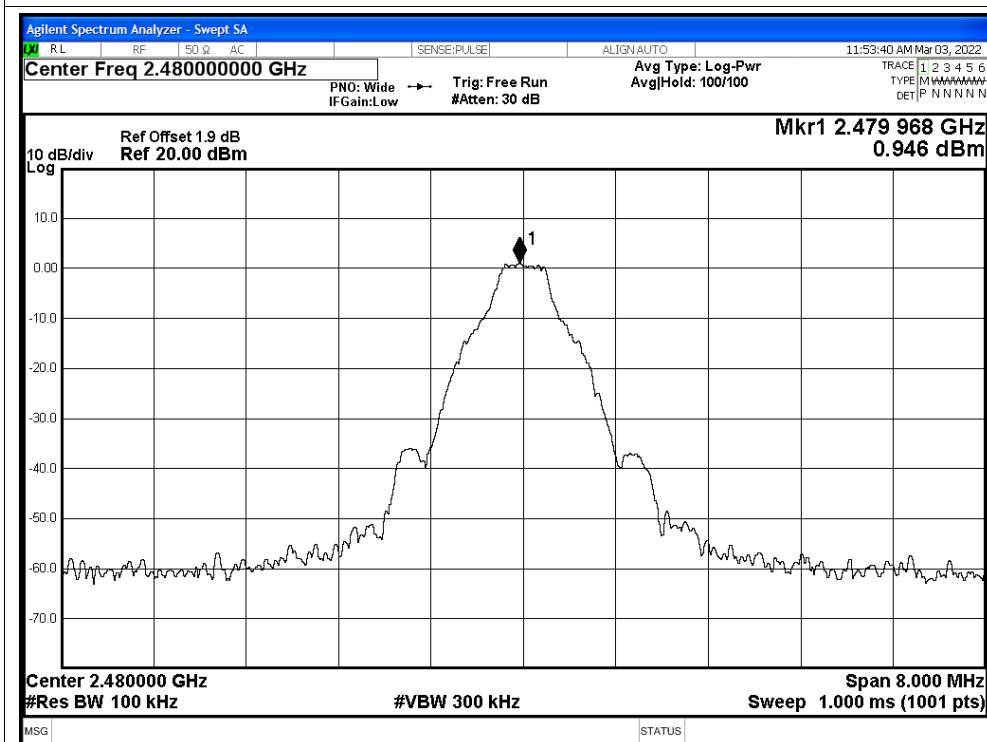


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

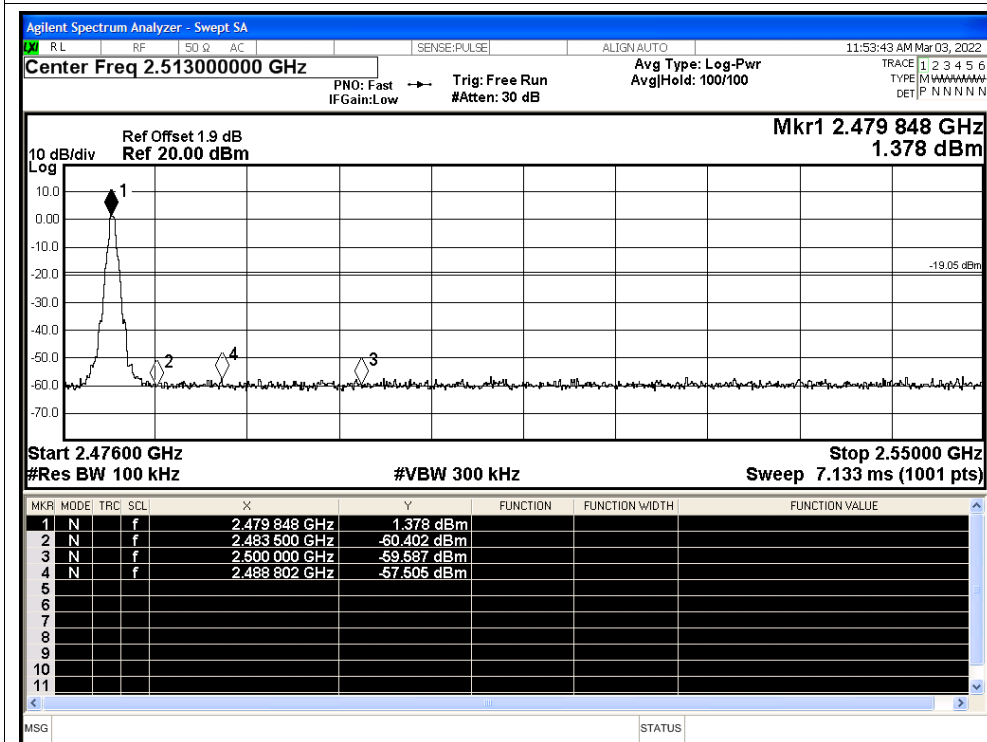




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

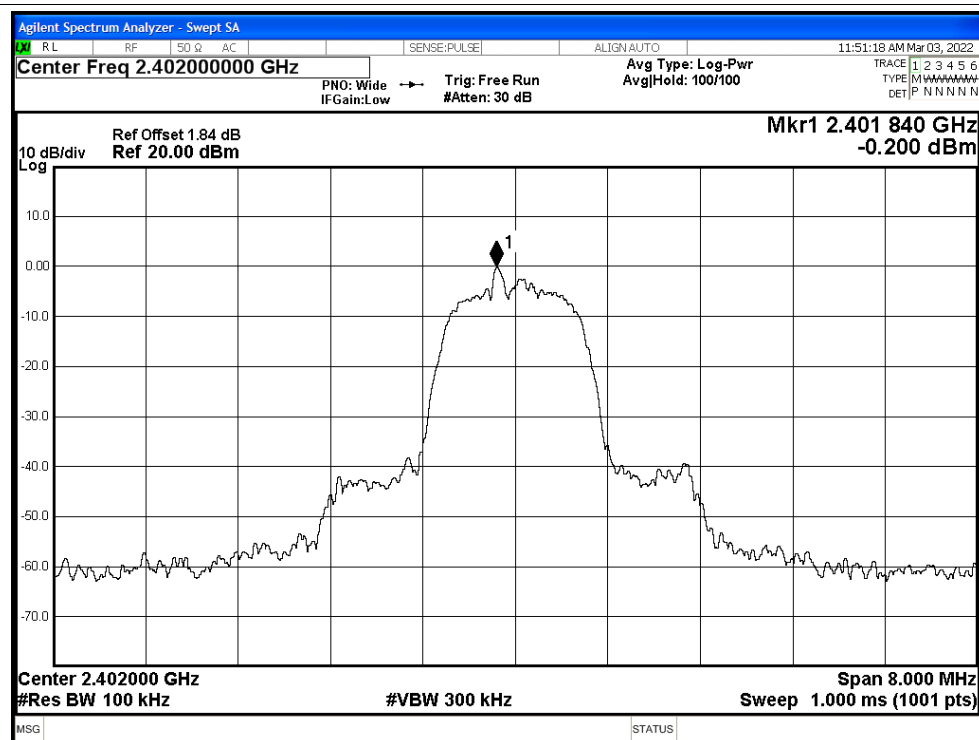


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

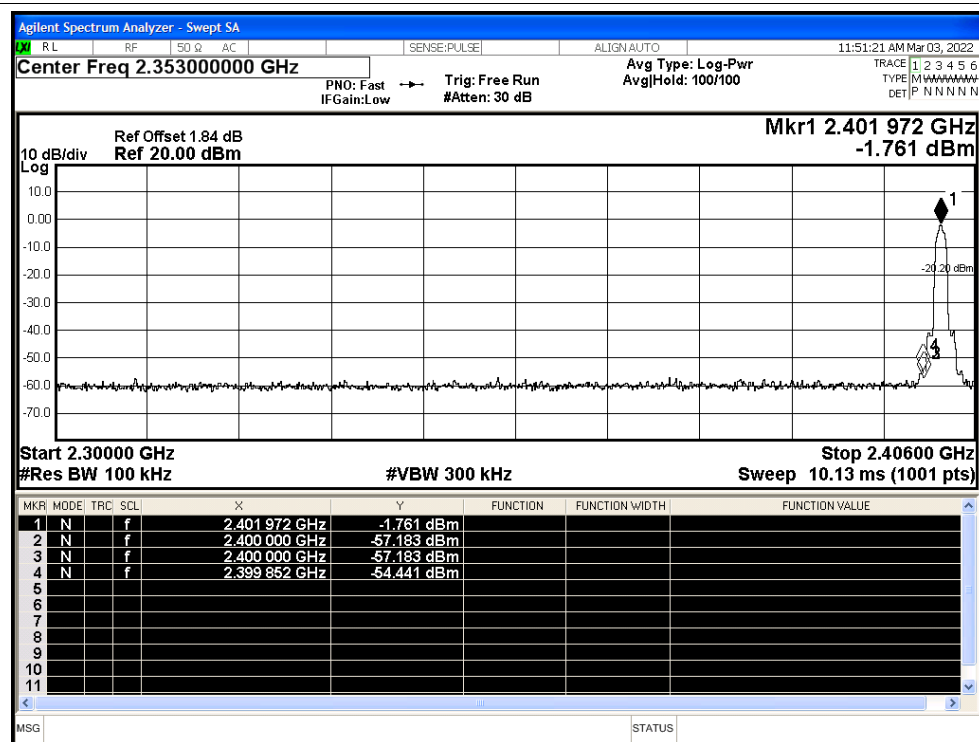




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

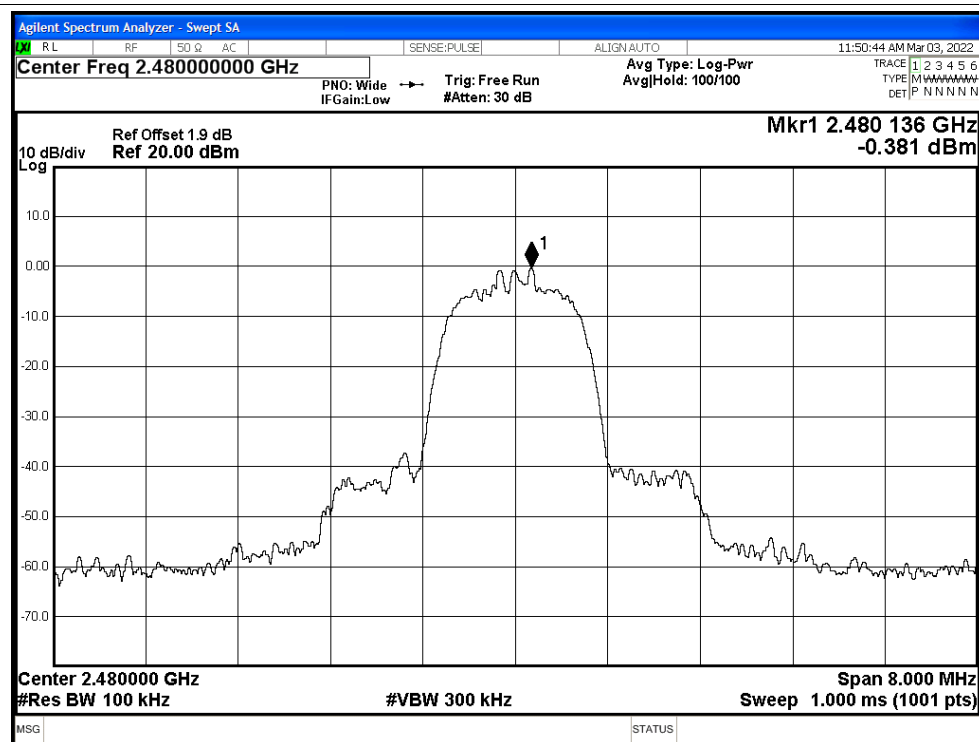


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

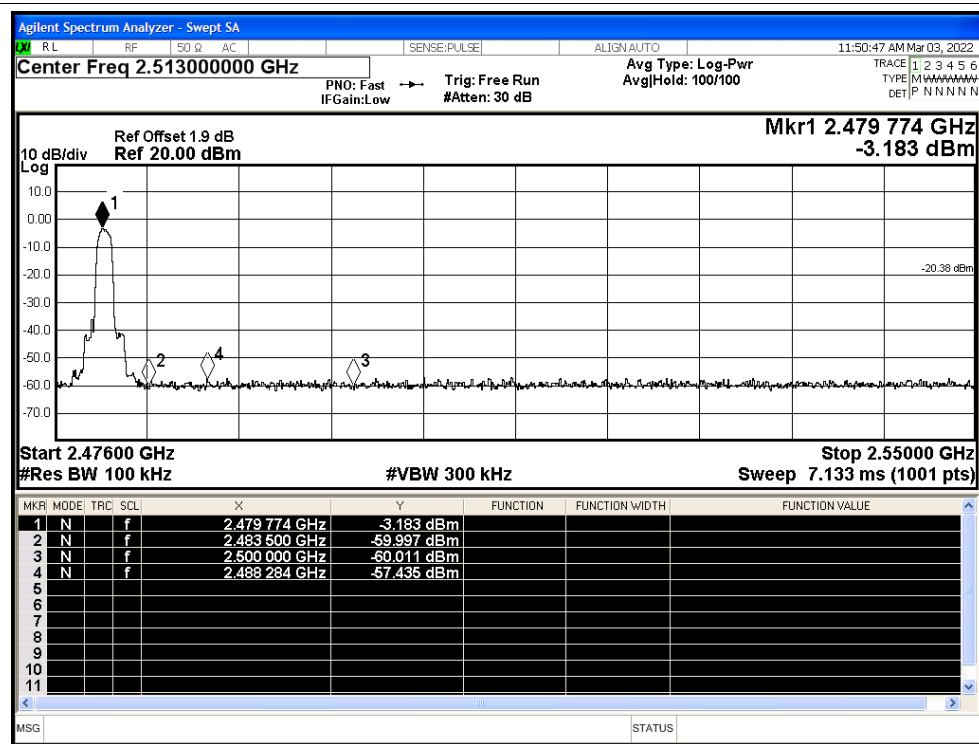




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





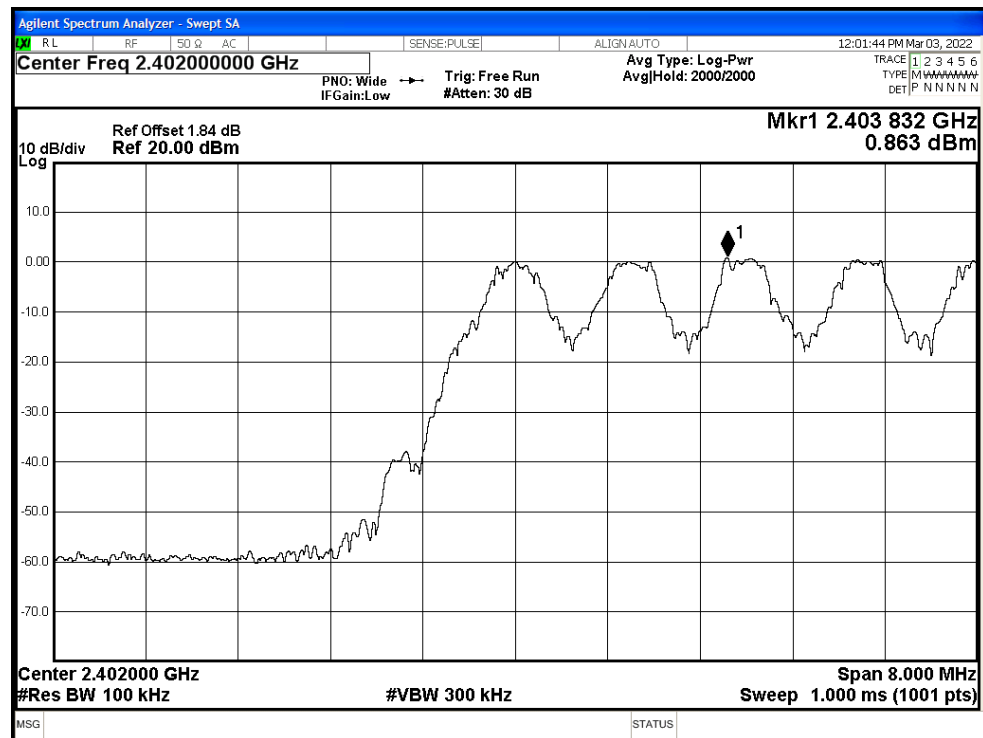
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-57.47	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.69	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.4	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.98	-20	Pass

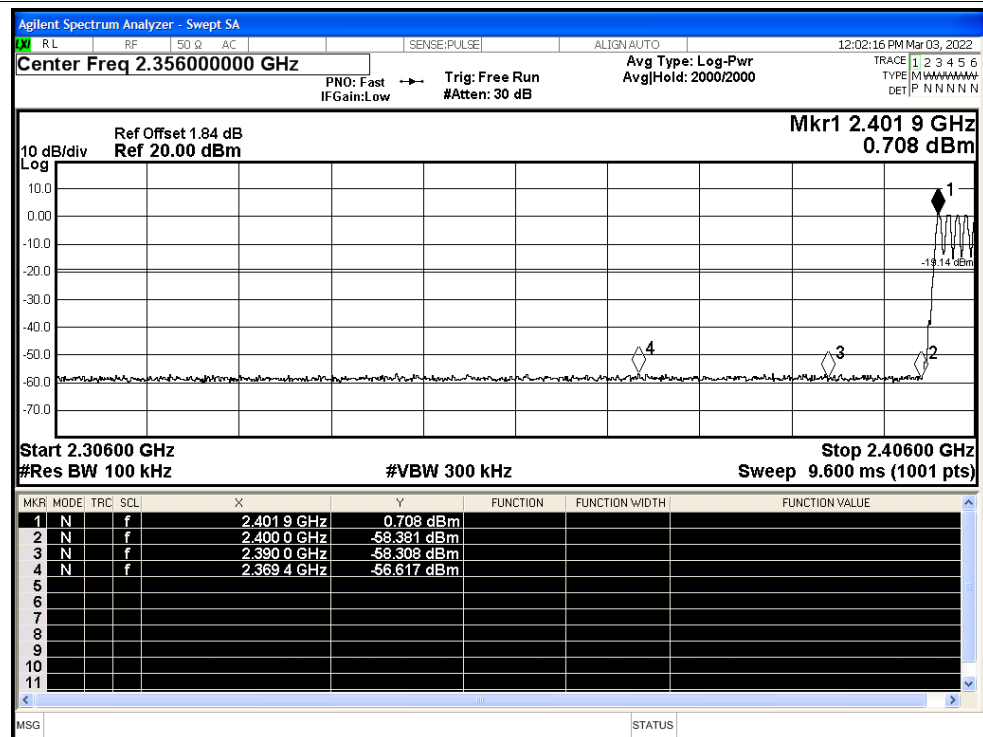


Test Graphs

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

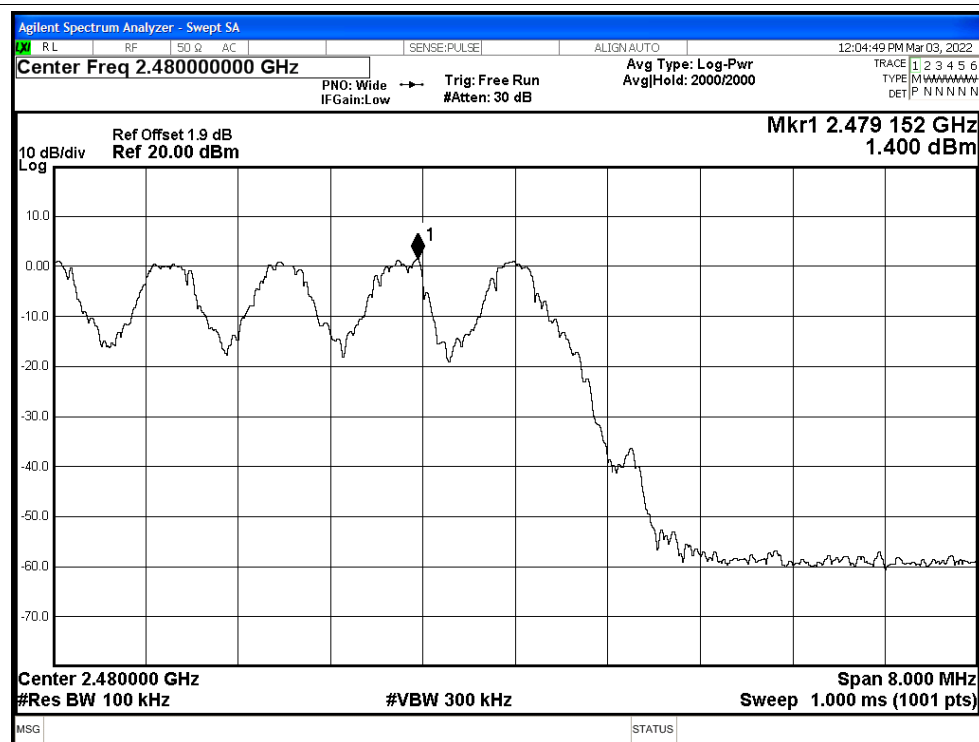


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

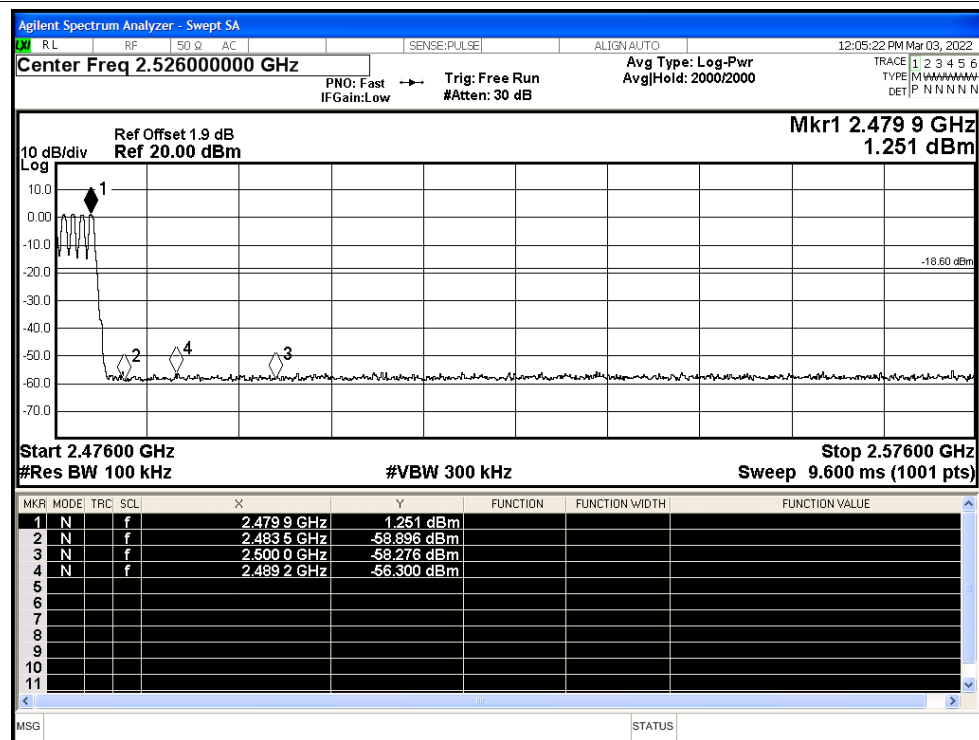




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

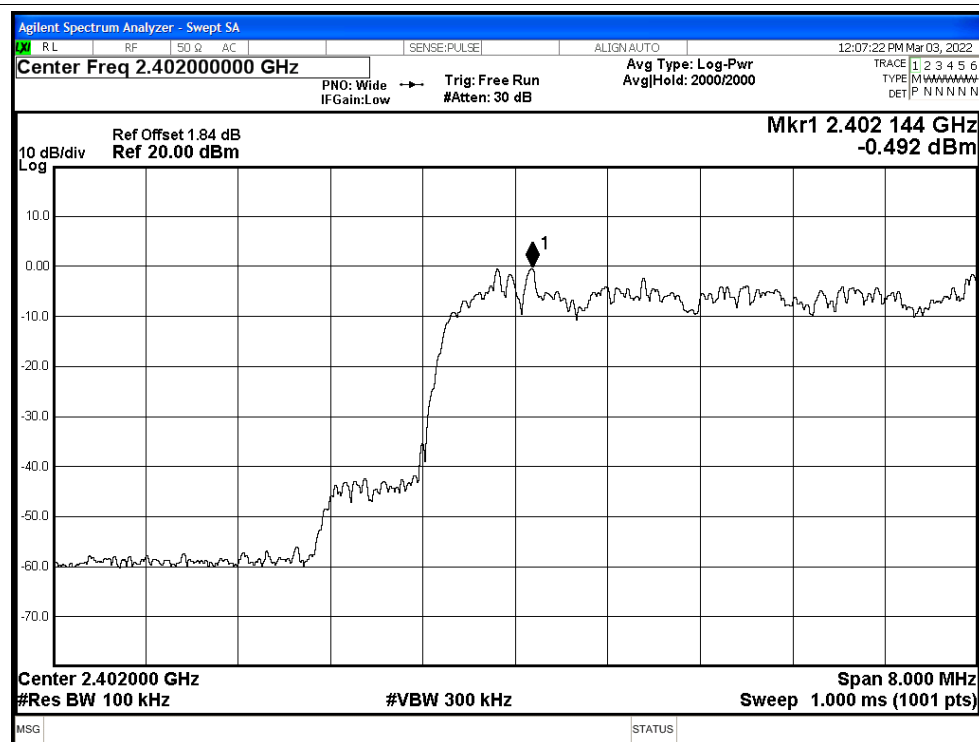


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

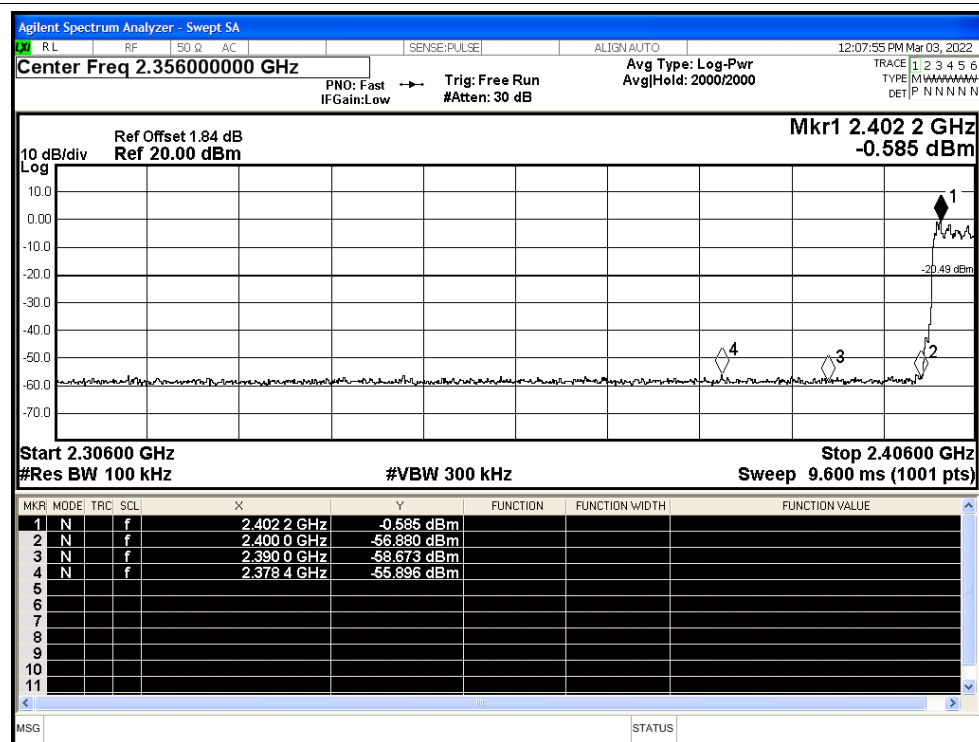




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

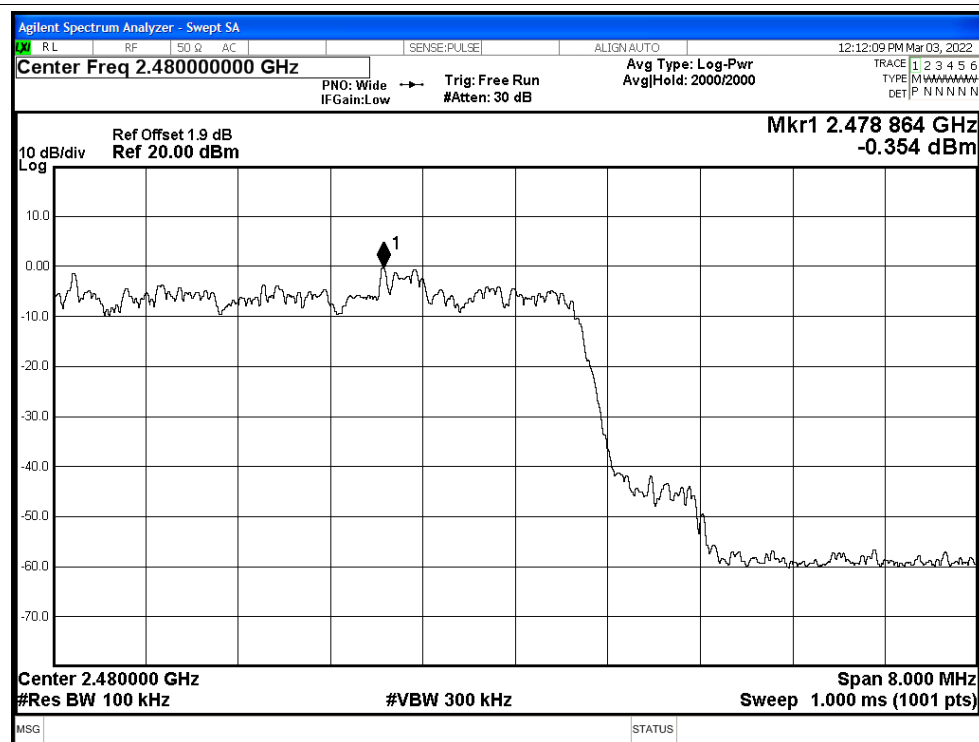


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

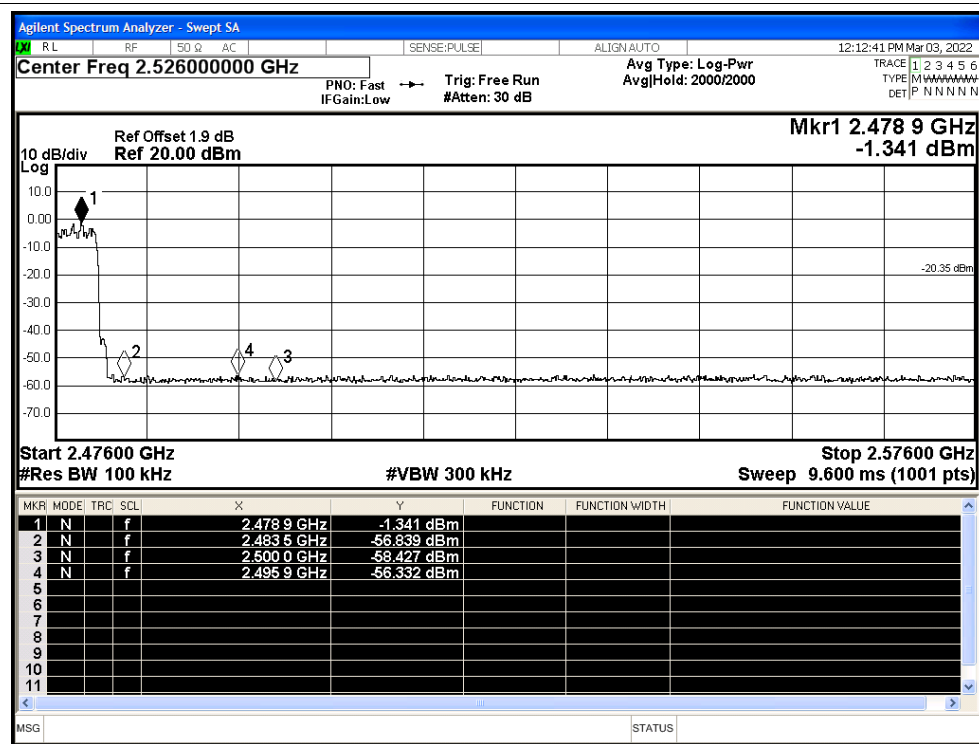




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





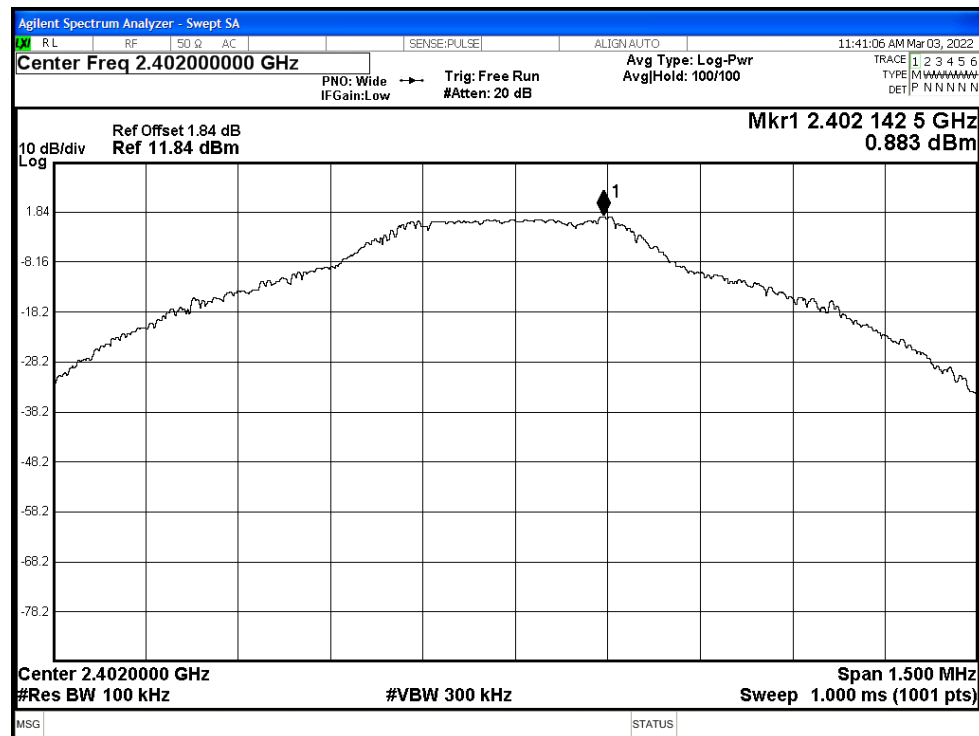
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.41	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.32	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.45	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.4	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.4	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.86	-20	Pass

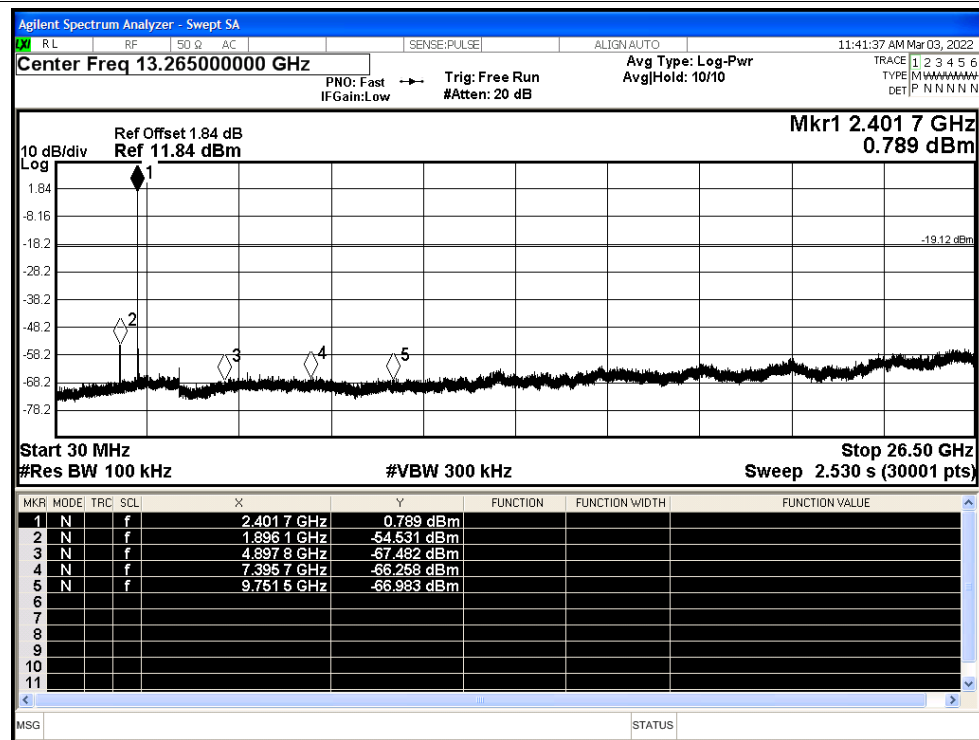


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

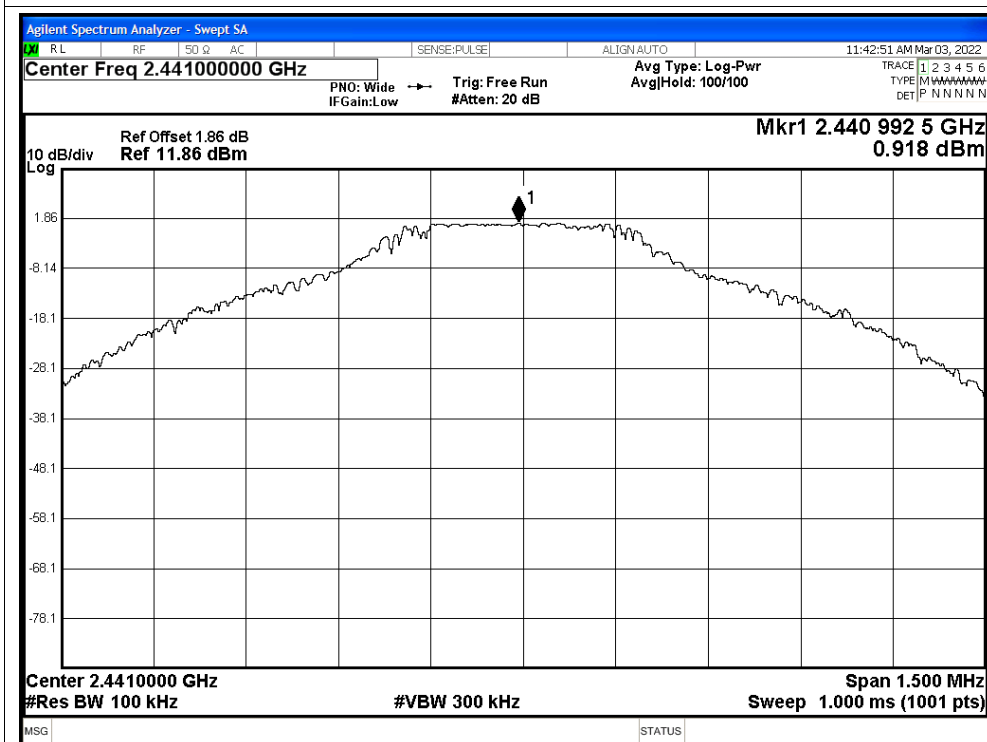


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

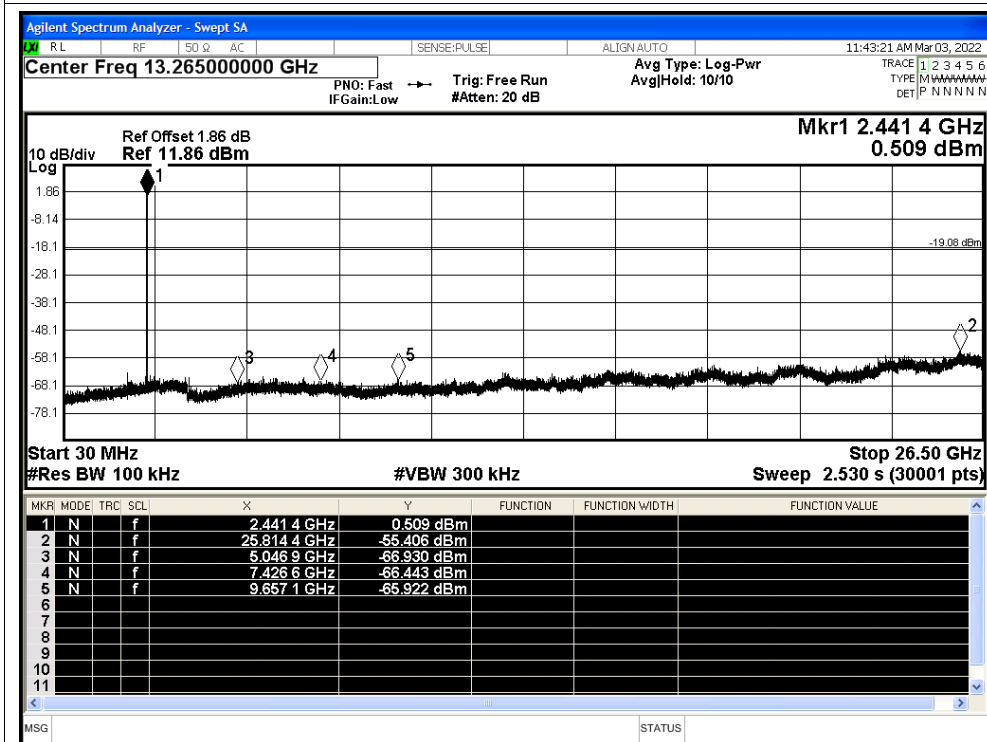




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

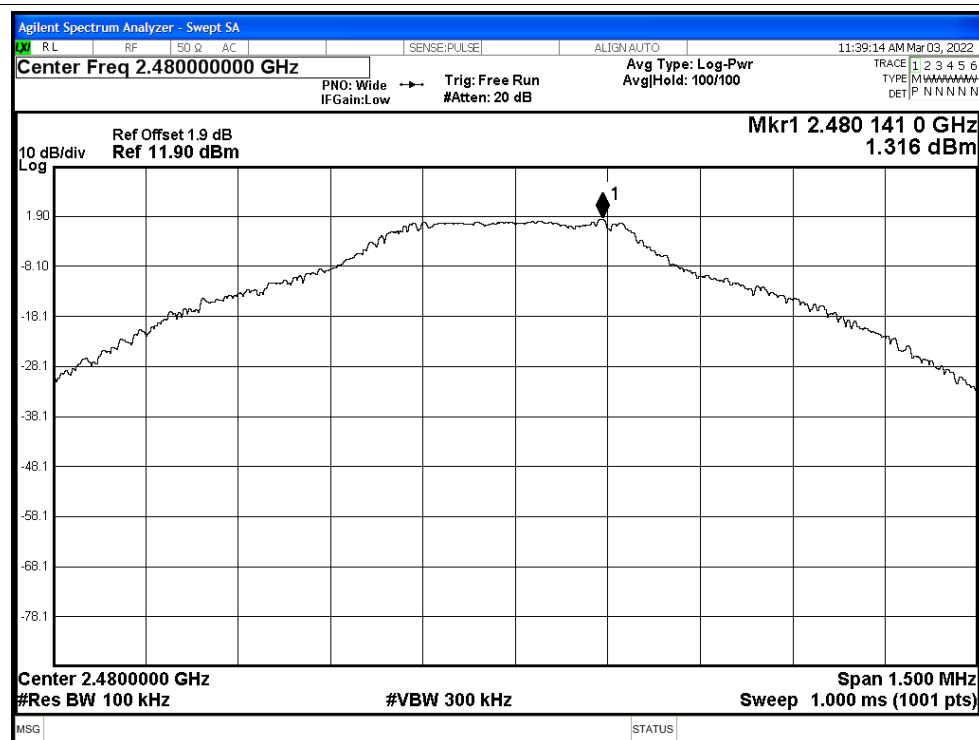


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

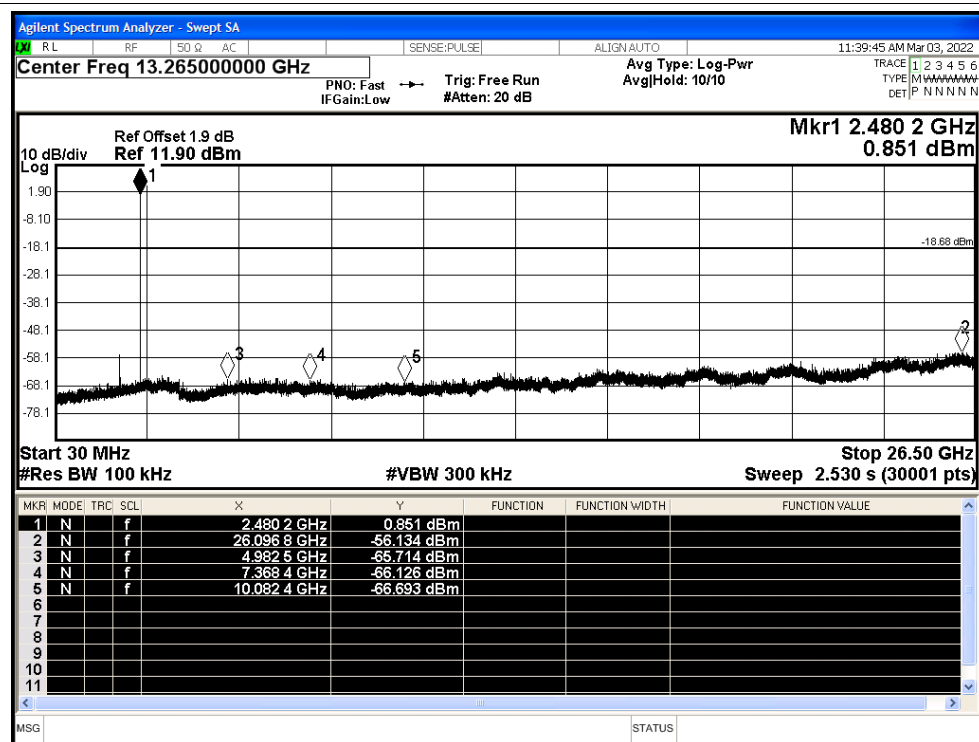




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

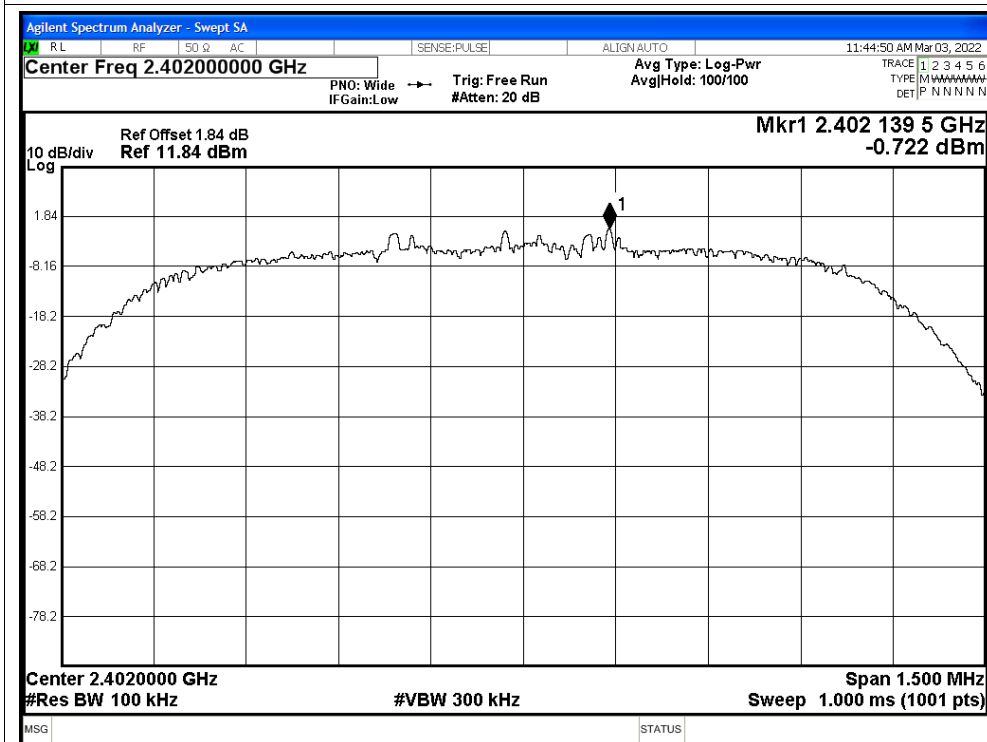


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

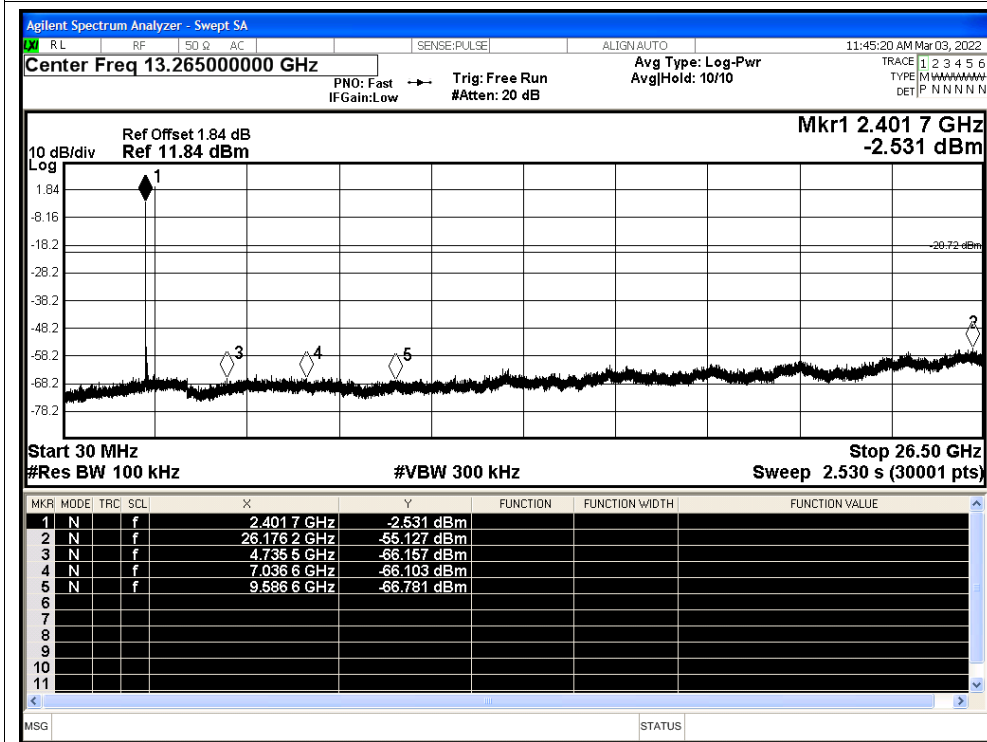




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

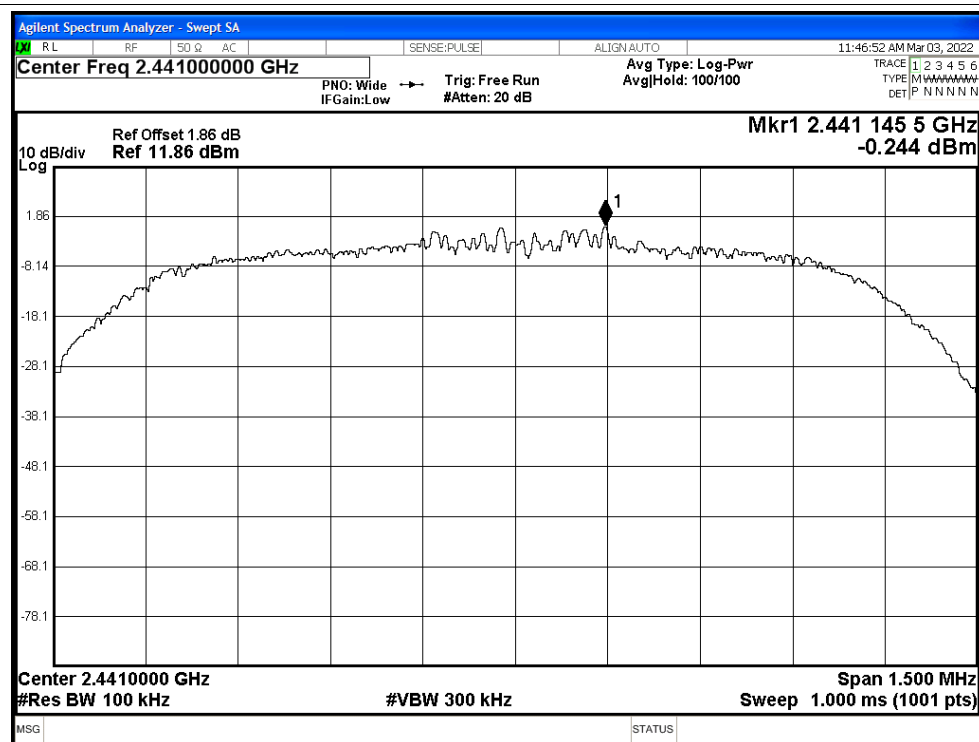


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

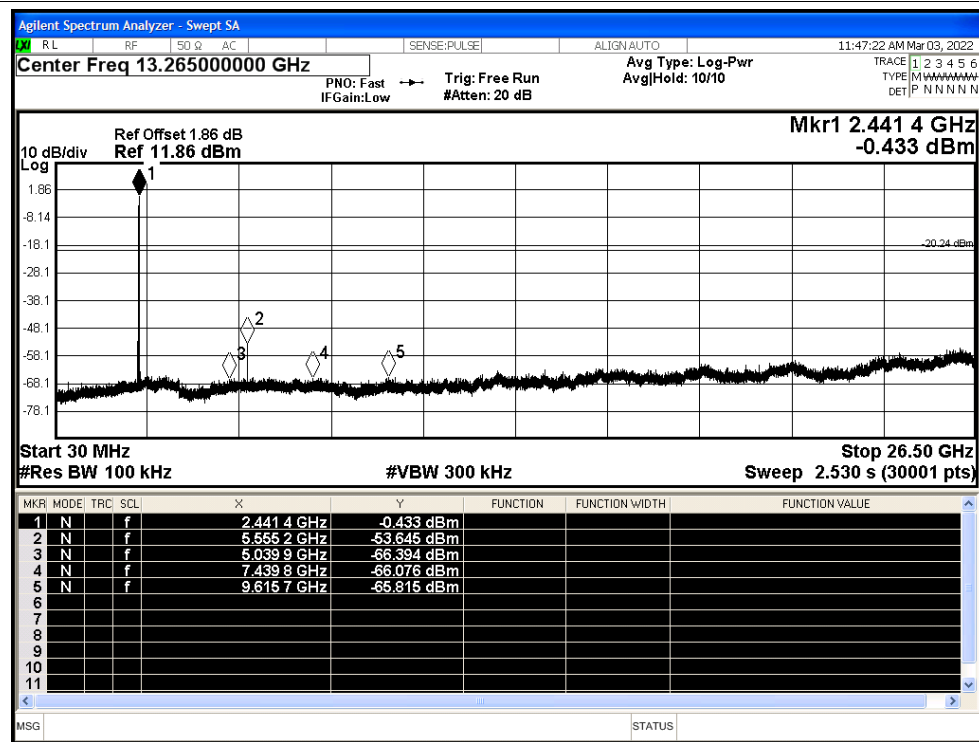




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

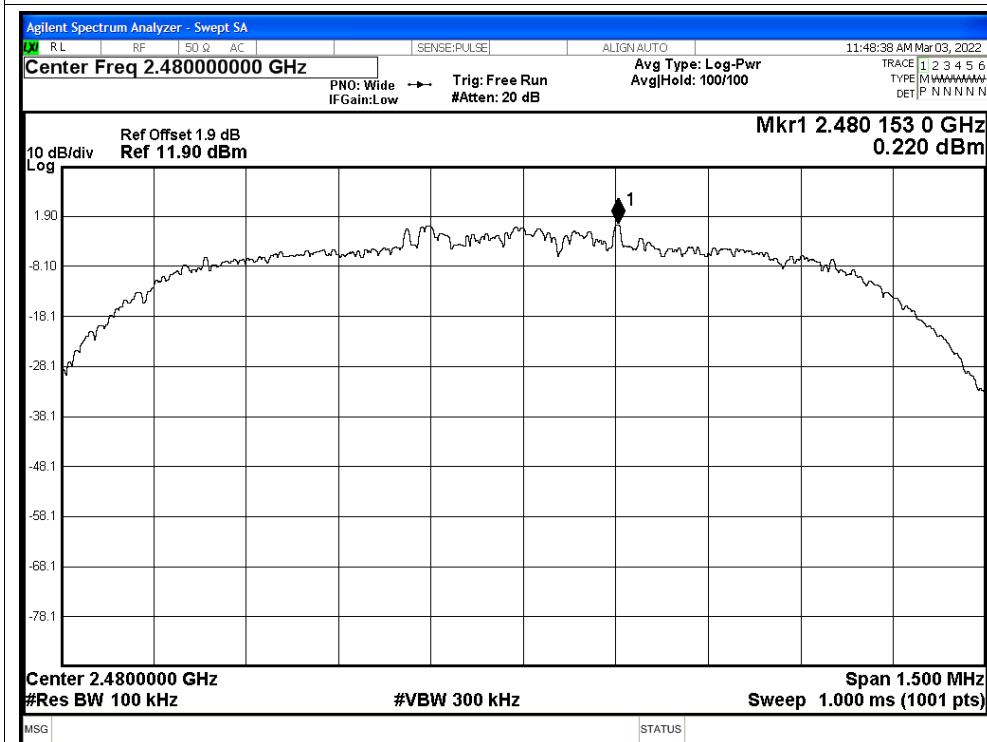


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

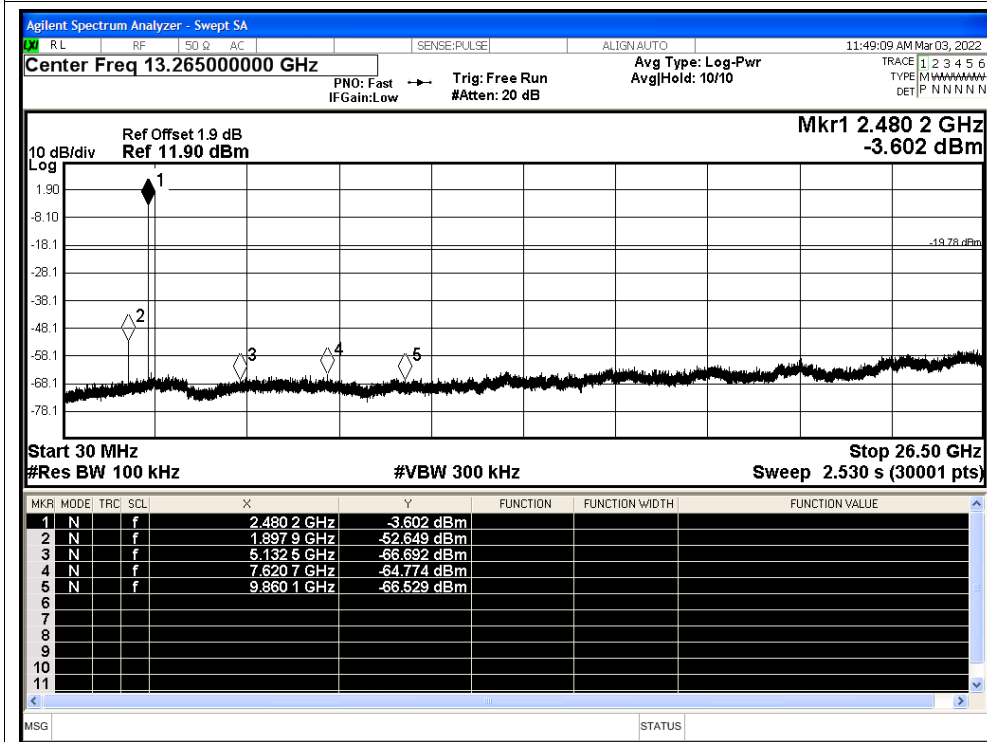




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





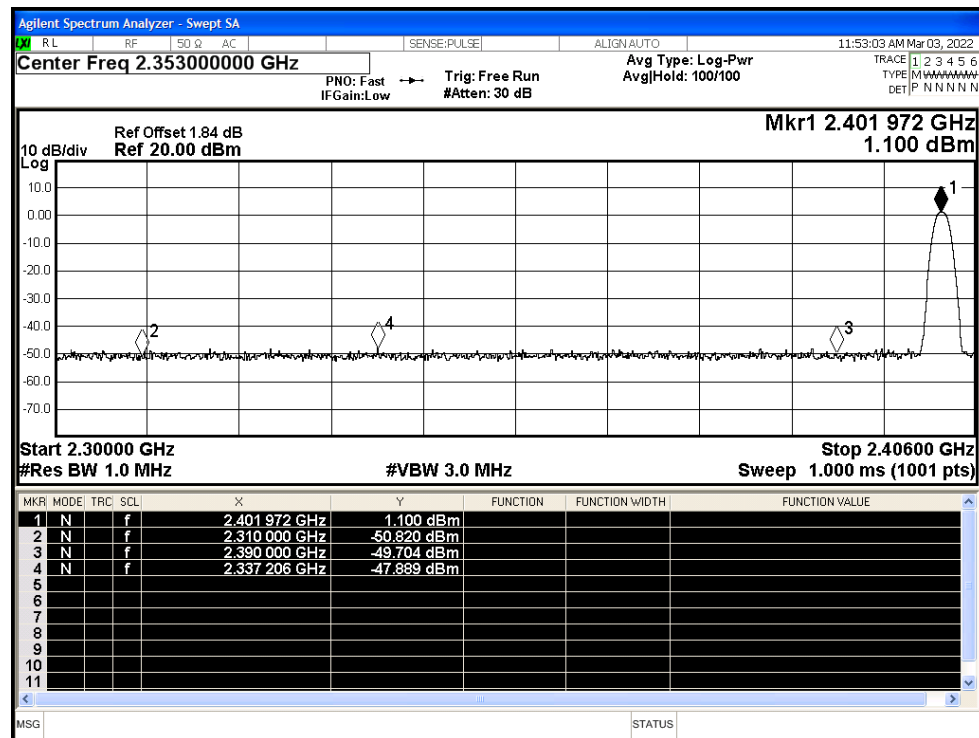
A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.64	2	46.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.72	2	36.54	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2337.206	-47.88	2	49.38	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.782	-60.15	2	37.11	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.18	2	46.08	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.24	2	37.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.38	2	47.88	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.77	2	37.49	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2492.946	-47.95	2	49.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.546	-59.63	2	37.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.19	2	47.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.98	2	37.28	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.47	2	47.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.72	2	36.54	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2374.73	-47.66	2	49.6	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.136	-60.15	2	37.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.25	2	47.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.36	2	36.9	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.31	2	46.95	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.67	2	37.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.282	-47.95	2	49.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.214	-59.49	2	37.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.09	2	47.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.9	2	37.36	Average	54	Pass

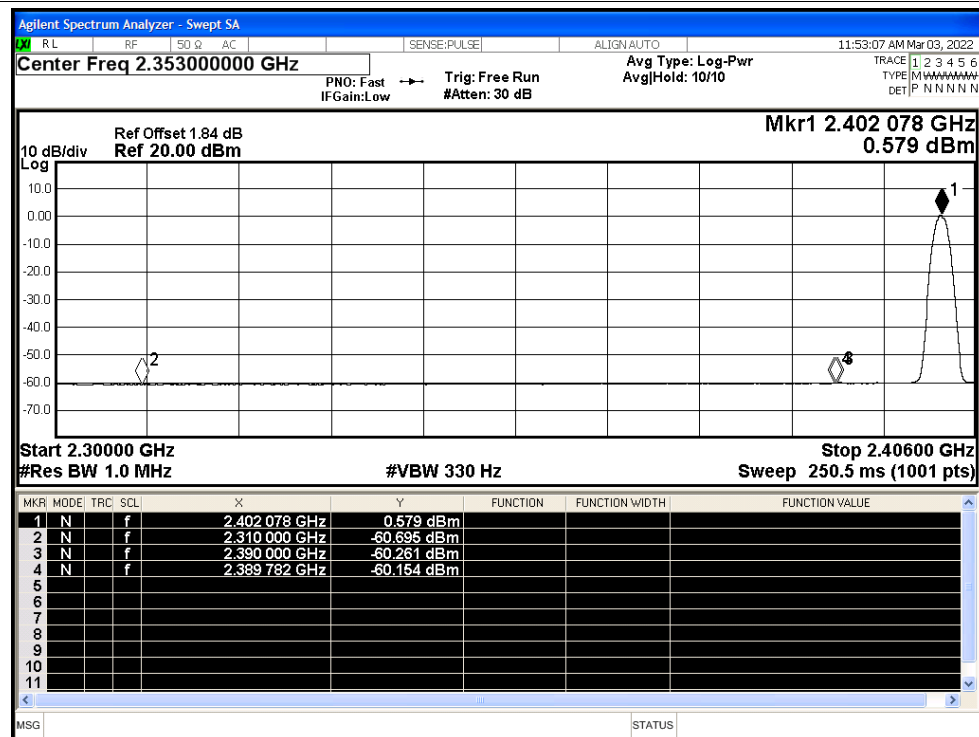


Test Graphs

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

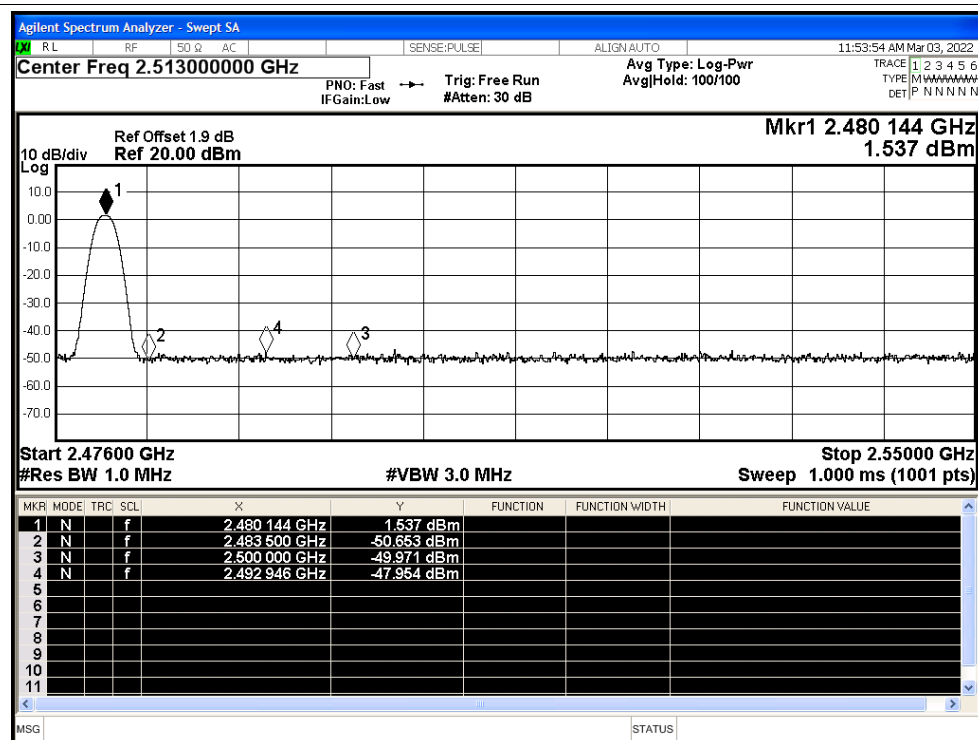


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

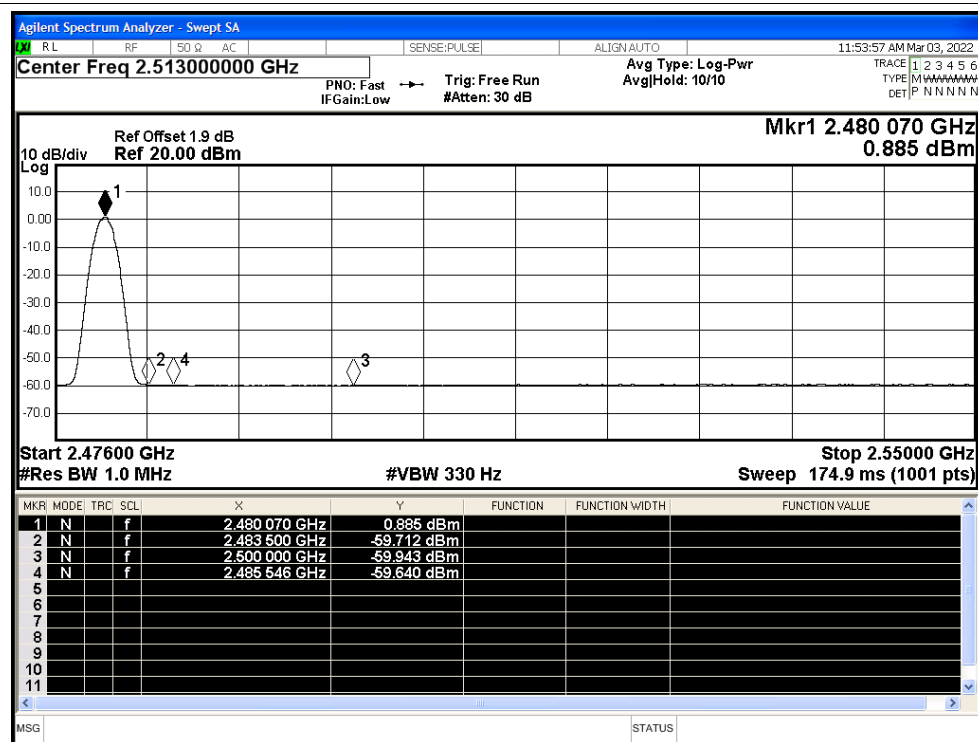




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

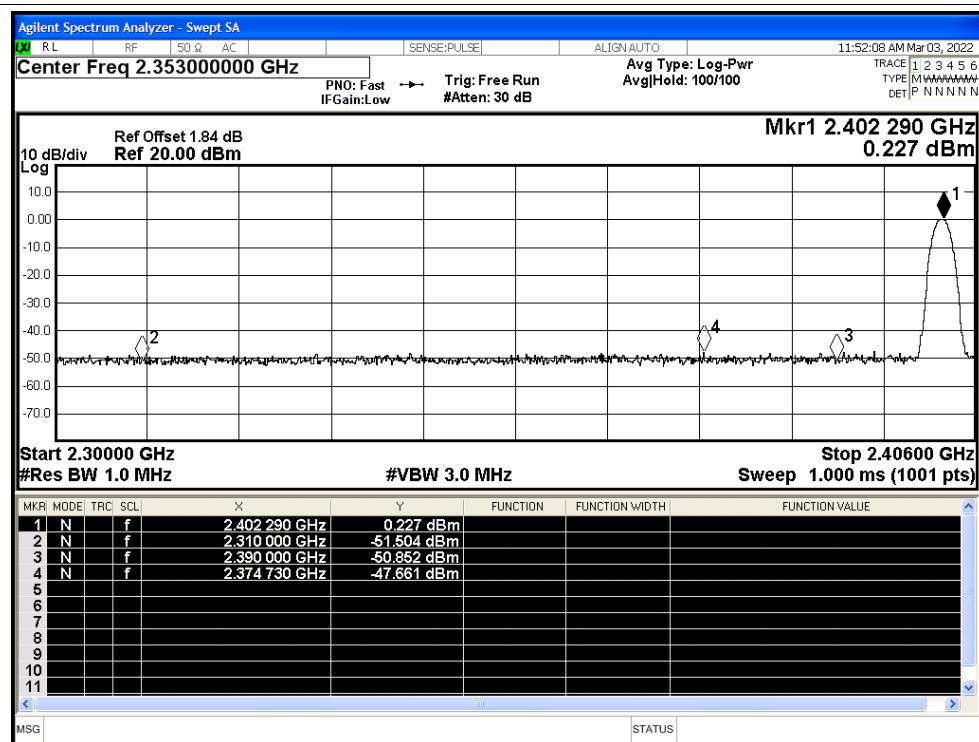


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

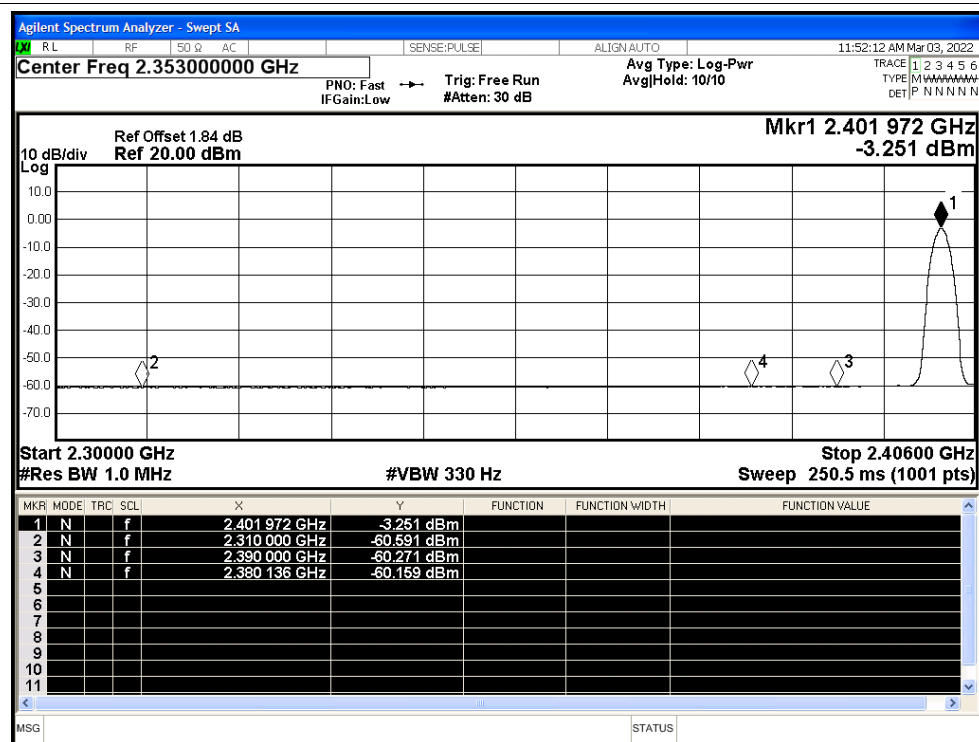




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

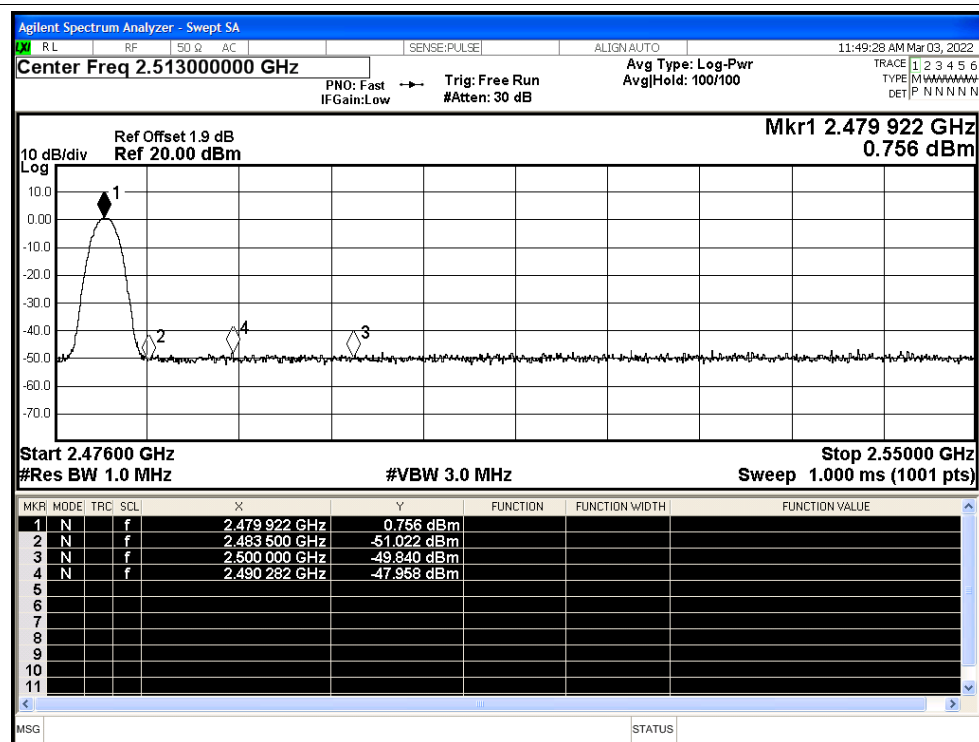


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

