



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable CD/BT/FM/USB-MP3 Boombox

Test Model: CD-6300

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





A.1 -20dB Bandwidth

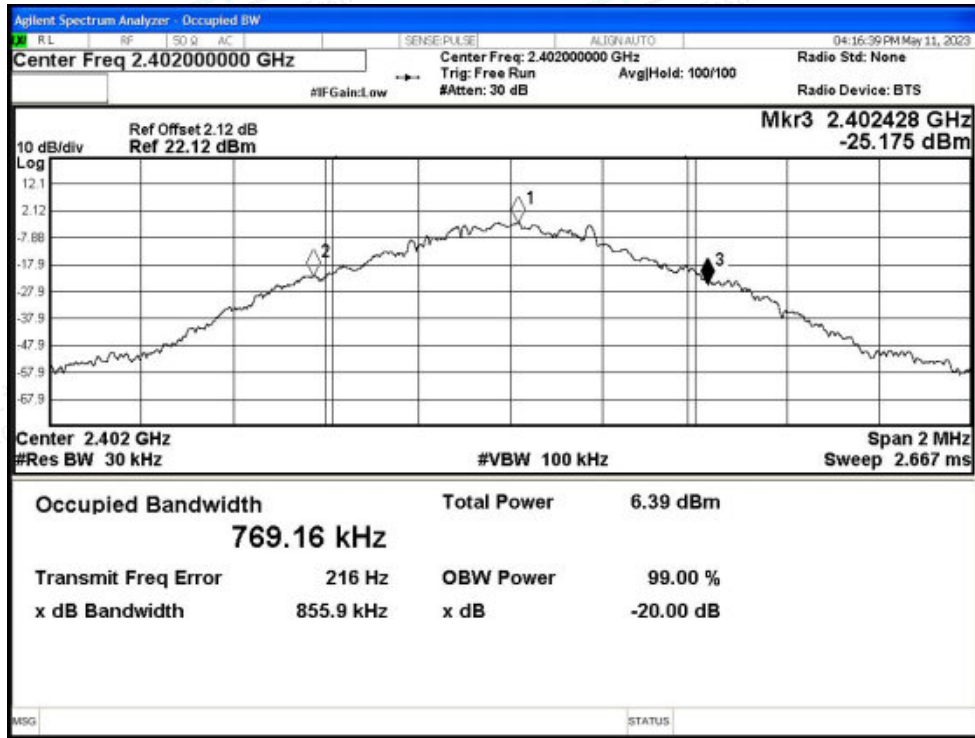
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.856	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.847	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.908	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.281	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.268	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.267	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.301	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.267	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.303	N/A	Pass



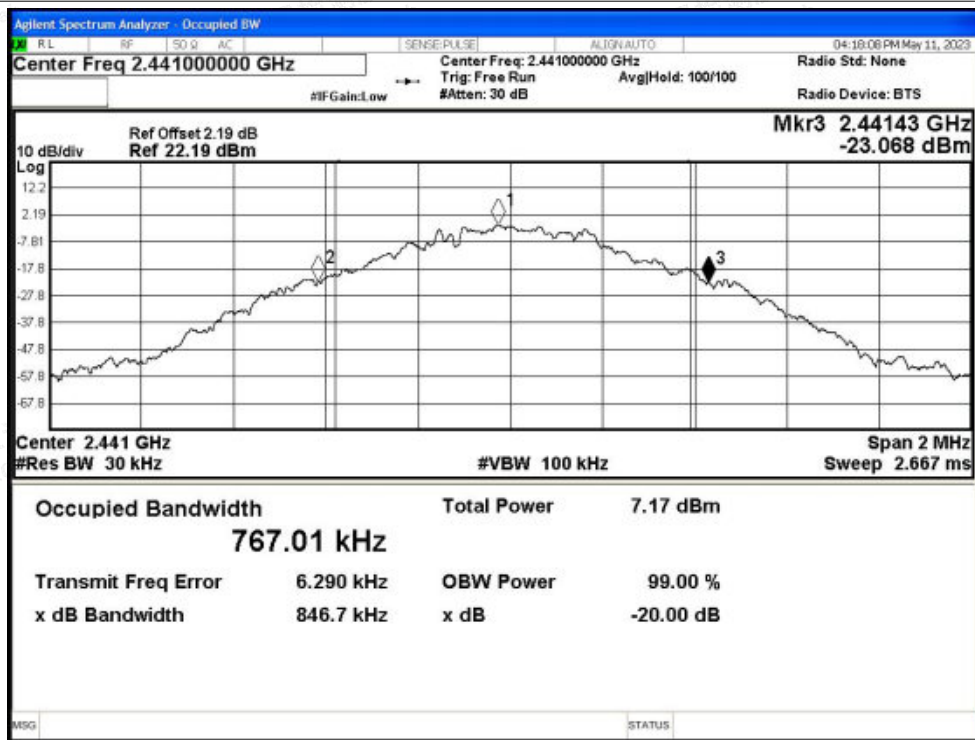


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

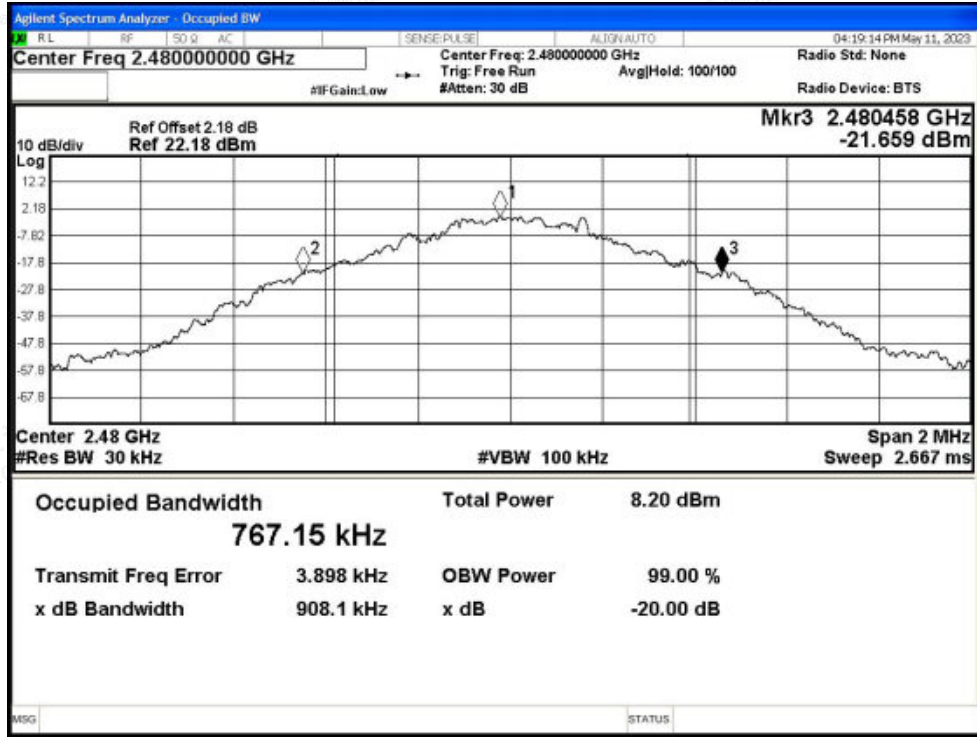


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

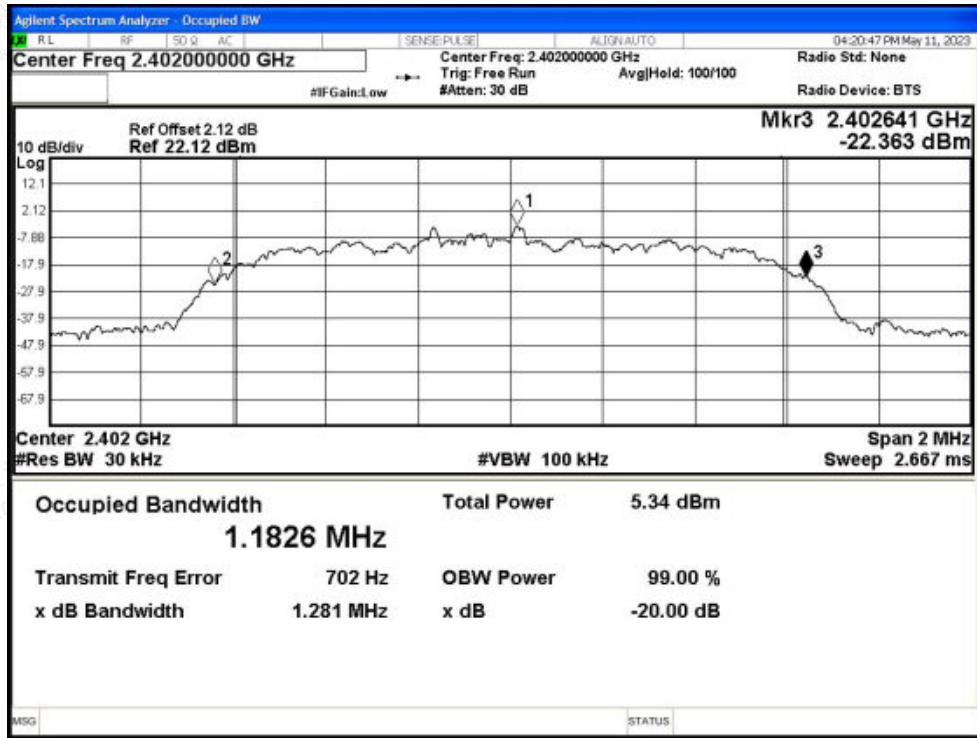




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

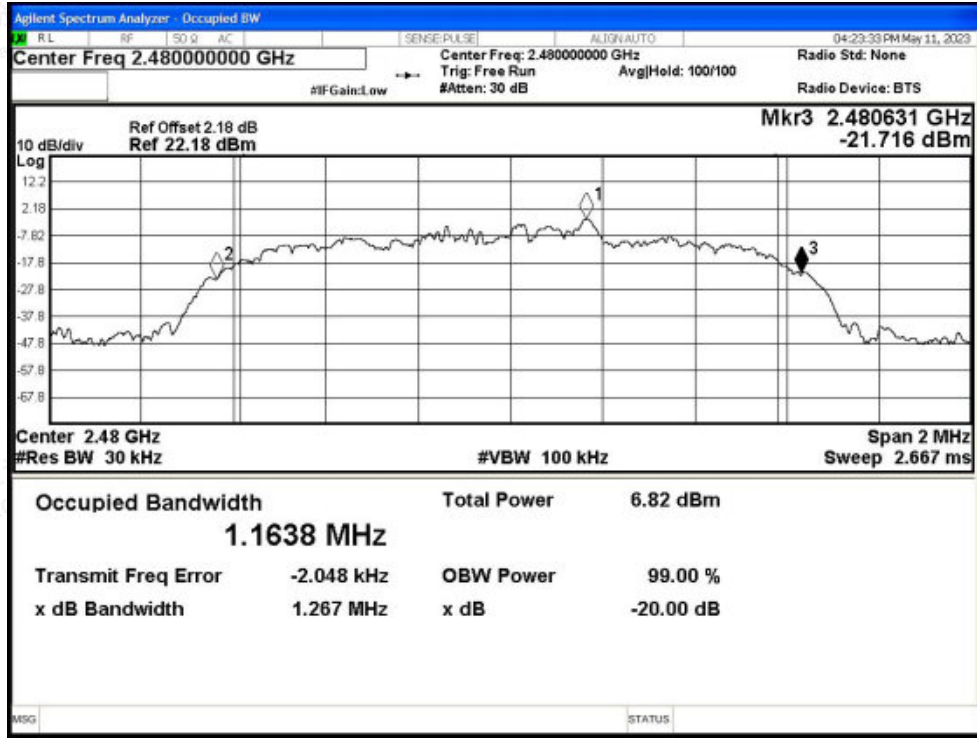




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

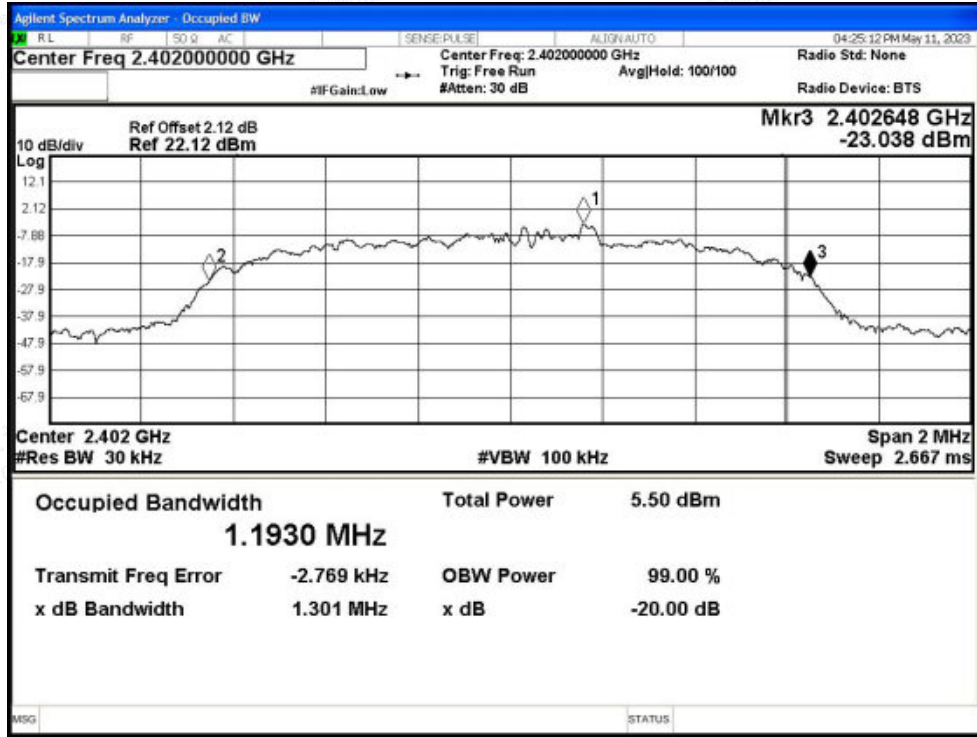


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

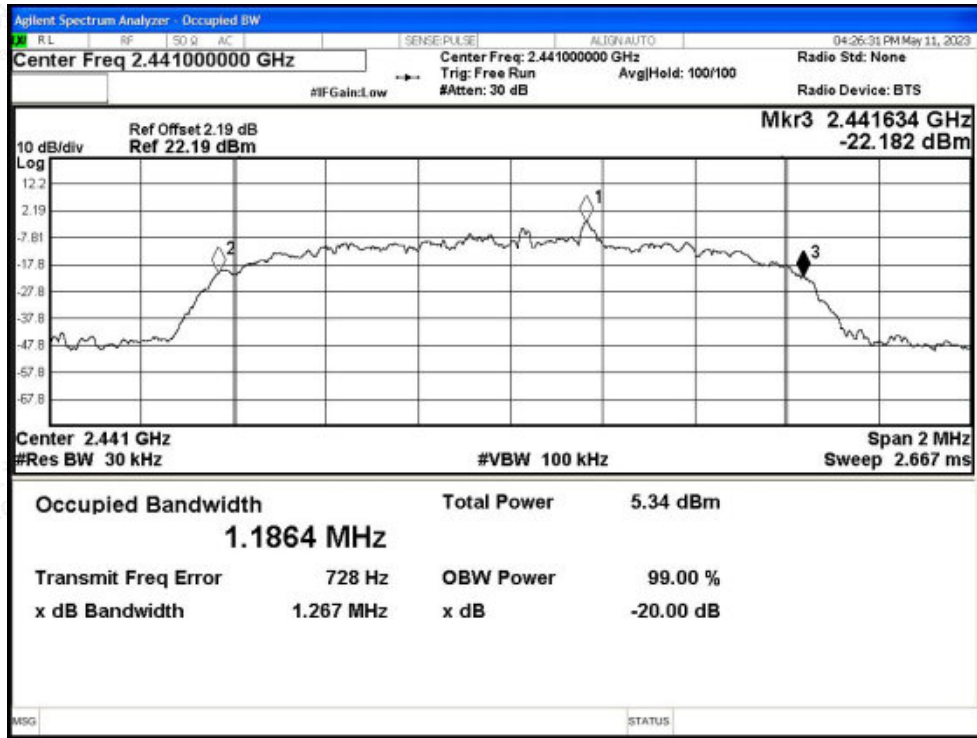




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

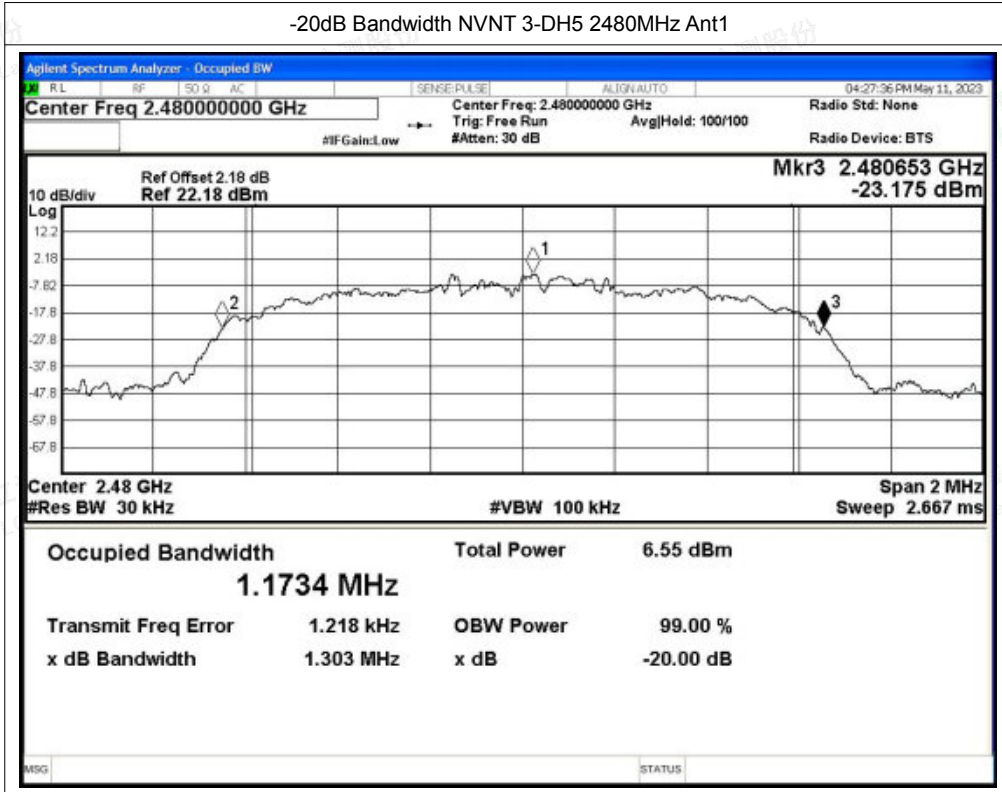


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

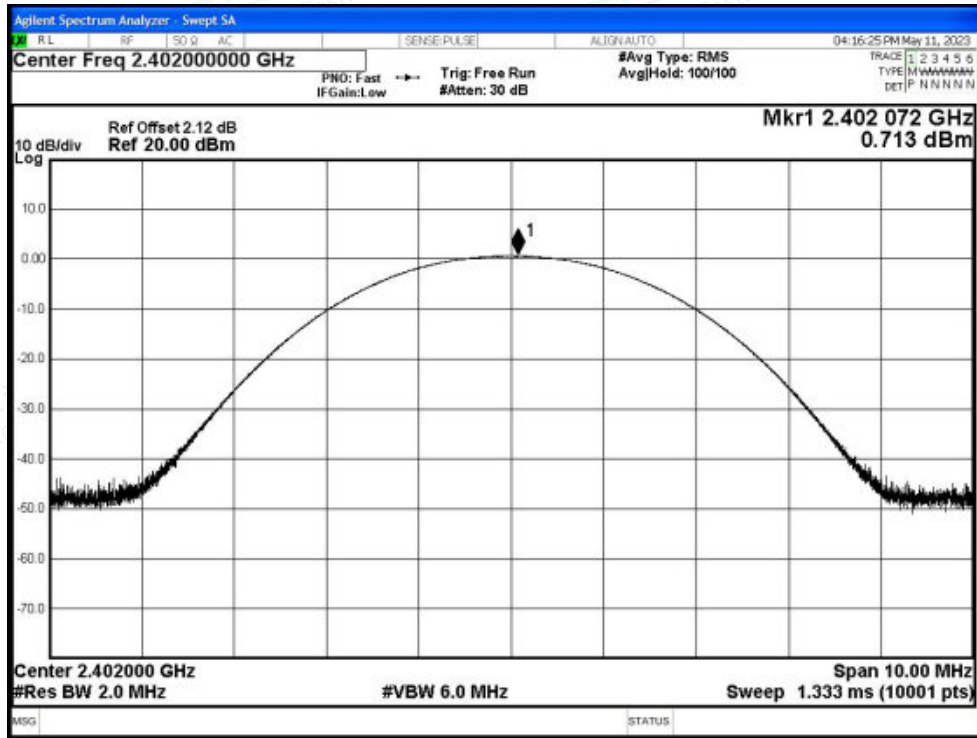
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.71	21	Pass
NVNT	1-DH5	2441	Ant1	1.27	21	Pass
NVNT	1-DH5	2480	Ant1	2.23	21	Pass
NVNT	2-DH5	2402	Ant1	0.8	21	Pass
NVNT	2-DH5	2441	Ant1	0.71	21	Pass
NVNT	2-DH5	2480	Ant1	1.69	21	Pass
NVNT	3-DH5	2402	Ant1	0.7	21	Pass
NVNT	3-DH5	2441	Ant1	0.69	21	Pass
NVNT	3-DH5	2480	Ant1	1.64	21	Pass



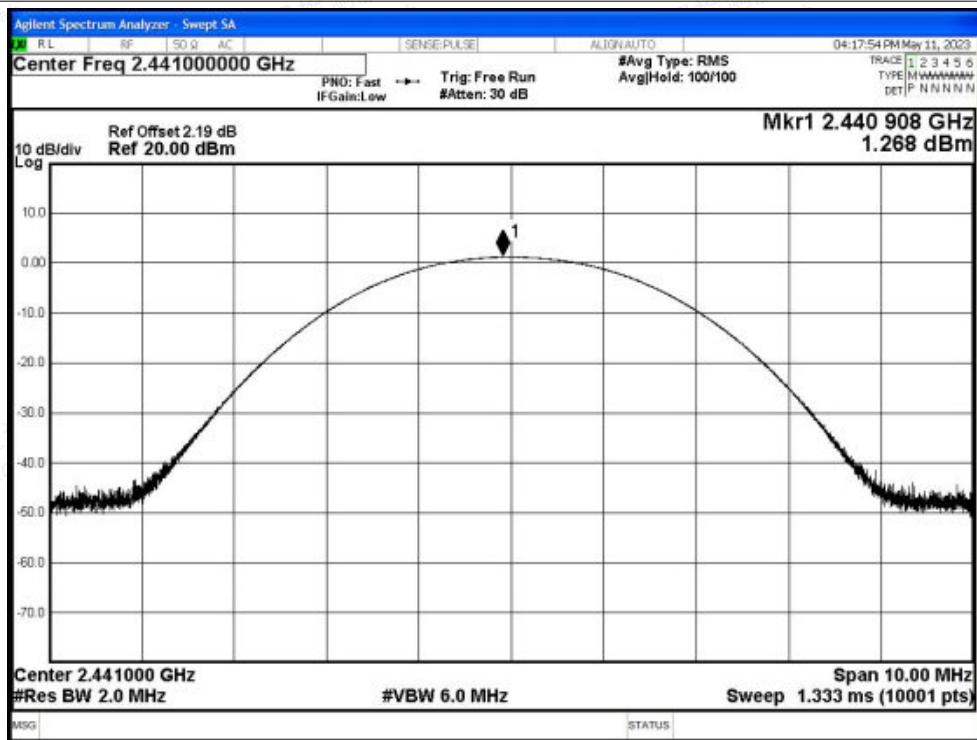


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

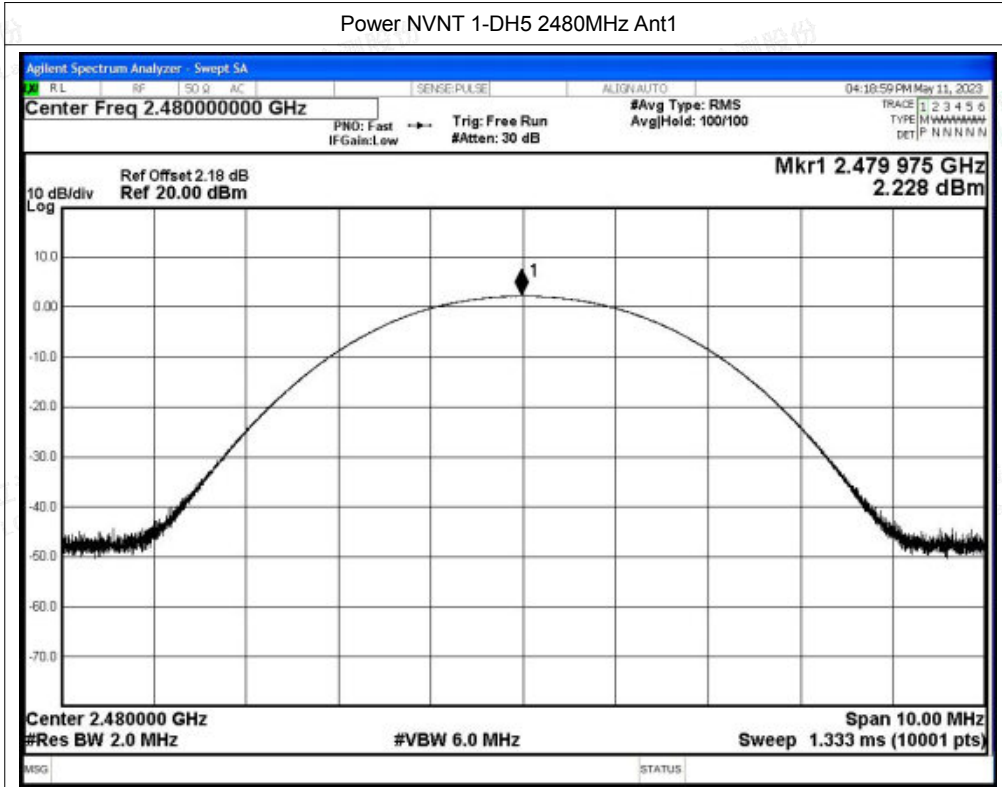


Power NVNT 1-DH5 2441MHz Ant1

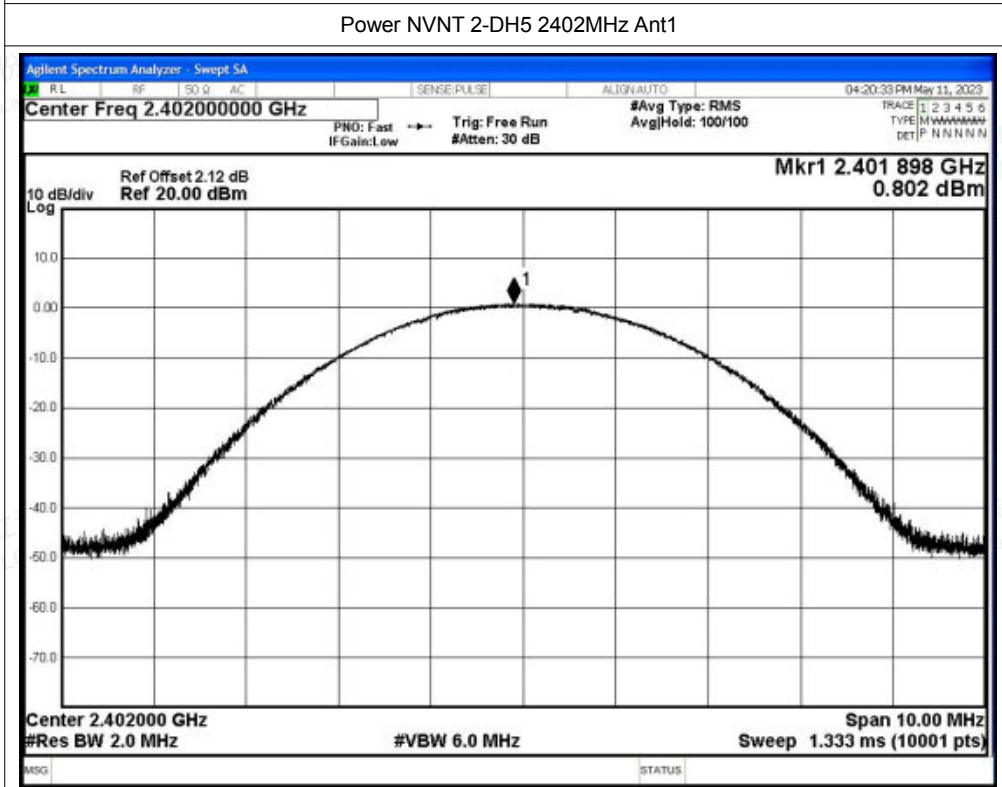




Power NVNT 1-DH5 2480MHz Ant1

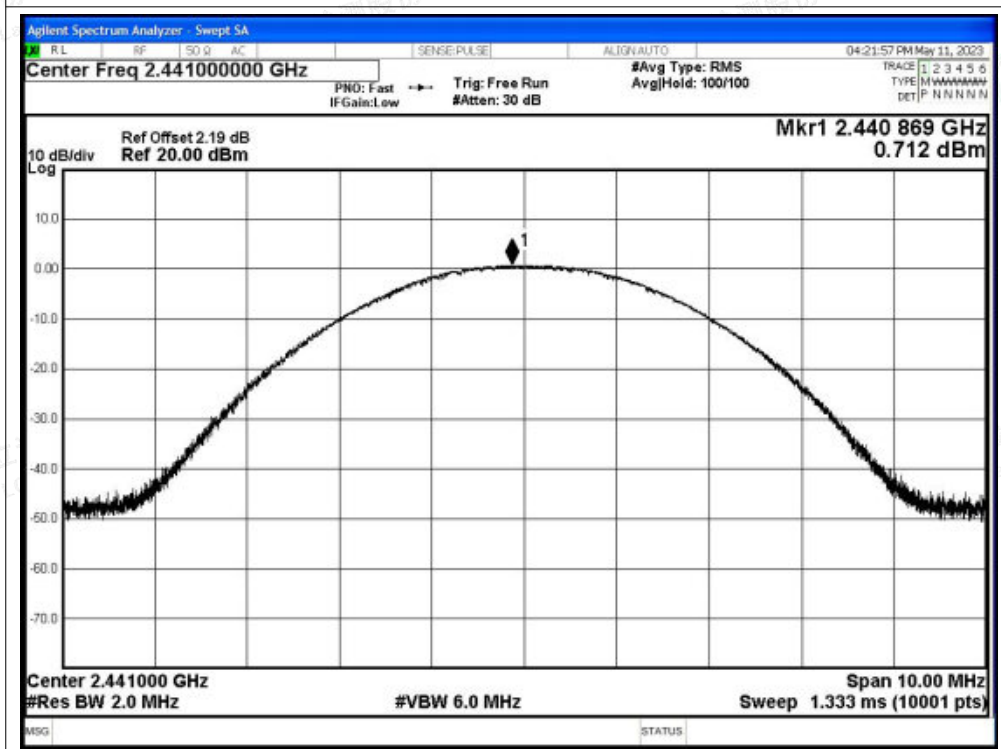


Power NVNT 2-DH5 2402MHz Ant1

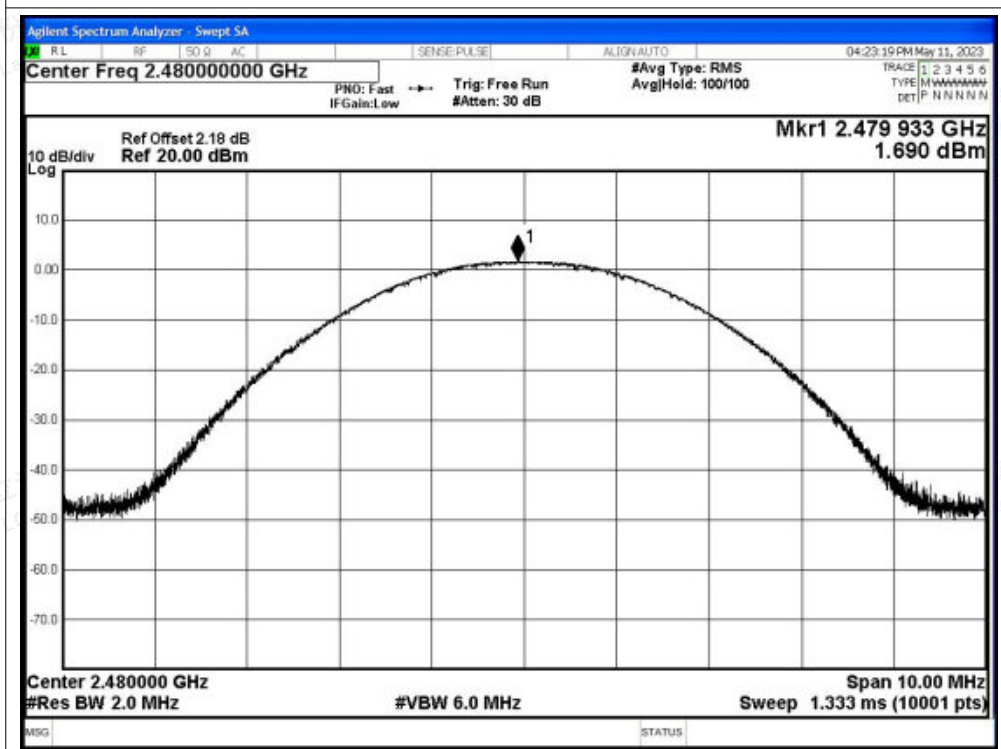




Power NVNT 2-DH5 2441MHz Ant1

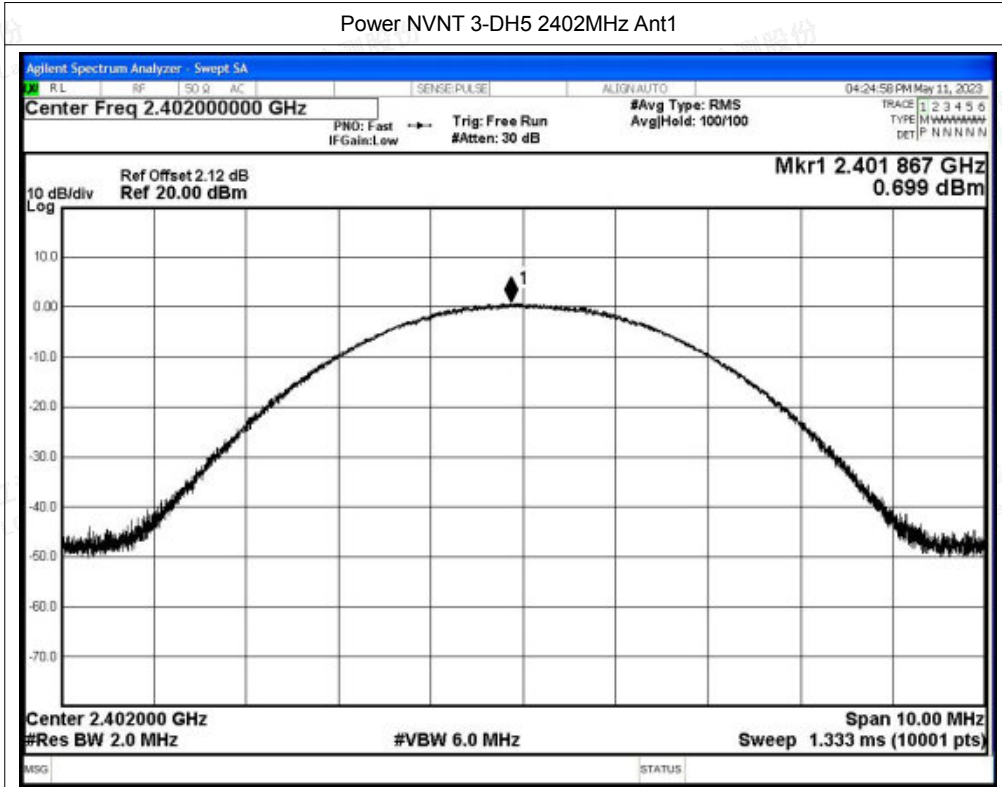


Power NVNT 2-DH5 2480MHz Ant1

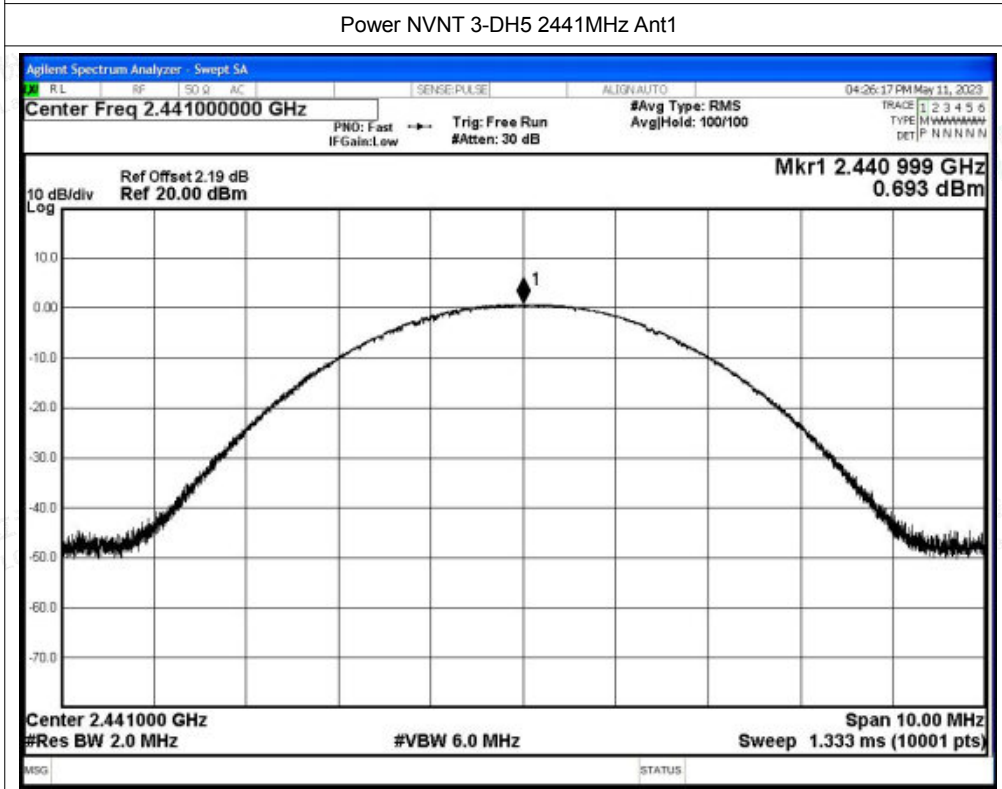


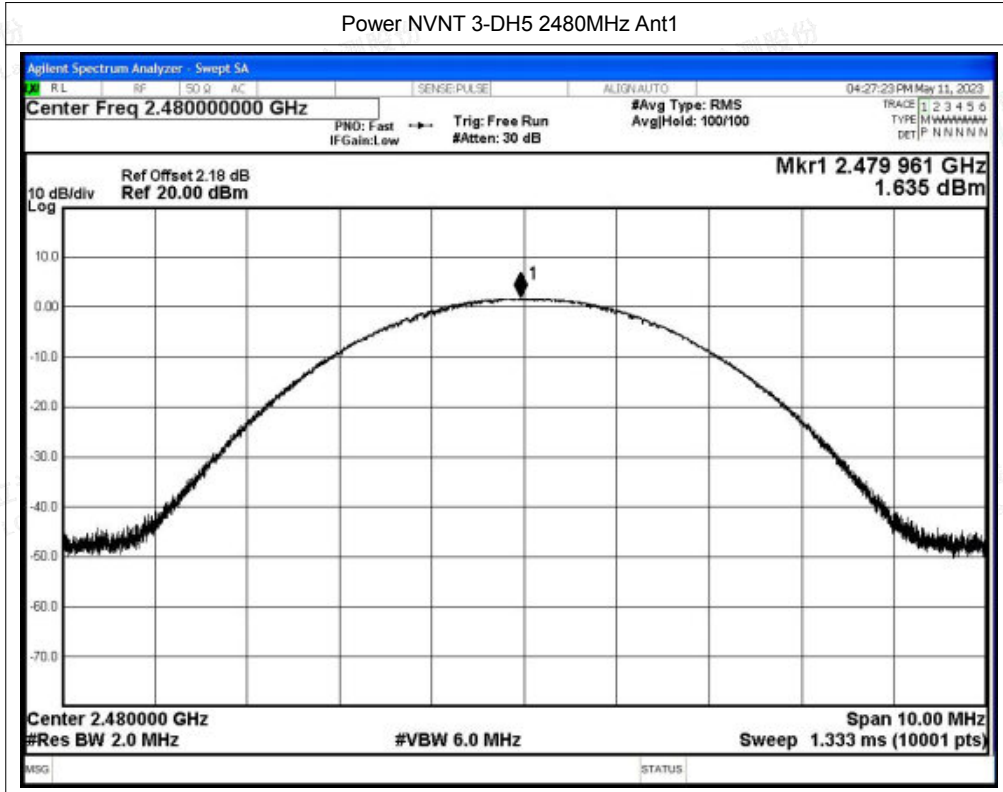


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

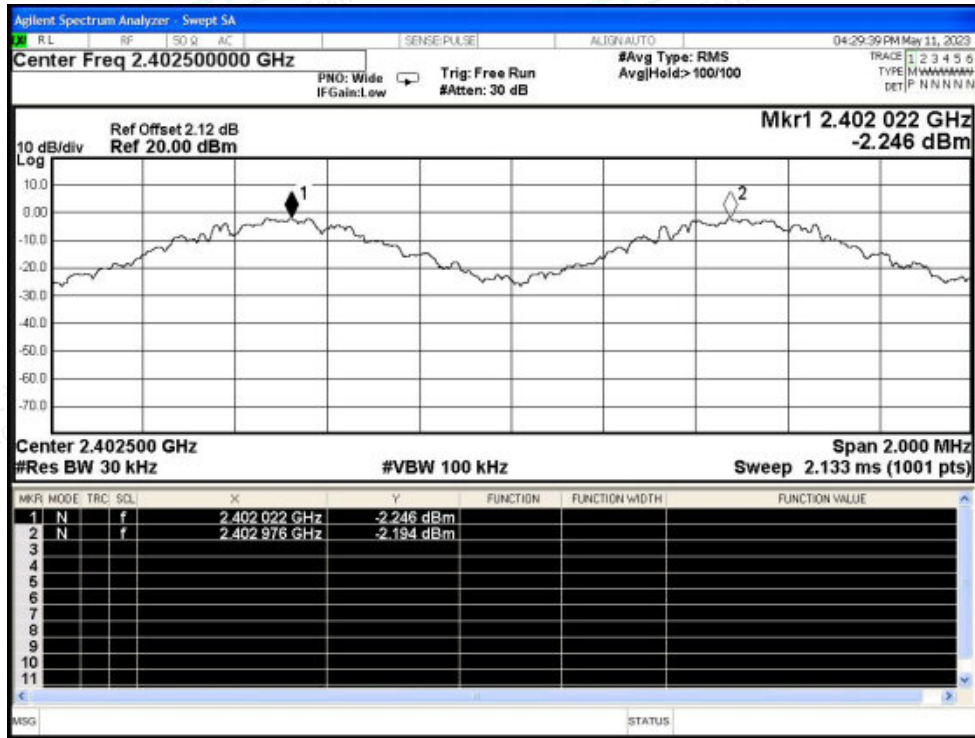
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.022	2402.976	0.954	0.605	Pass
NVNT	2-DH5	Ant1	2401.92	2403.026	1.106	0.854	Pass
NVNT	3-DH5	Ant1	2402.036	2403.01	0.974	0.869	Pass



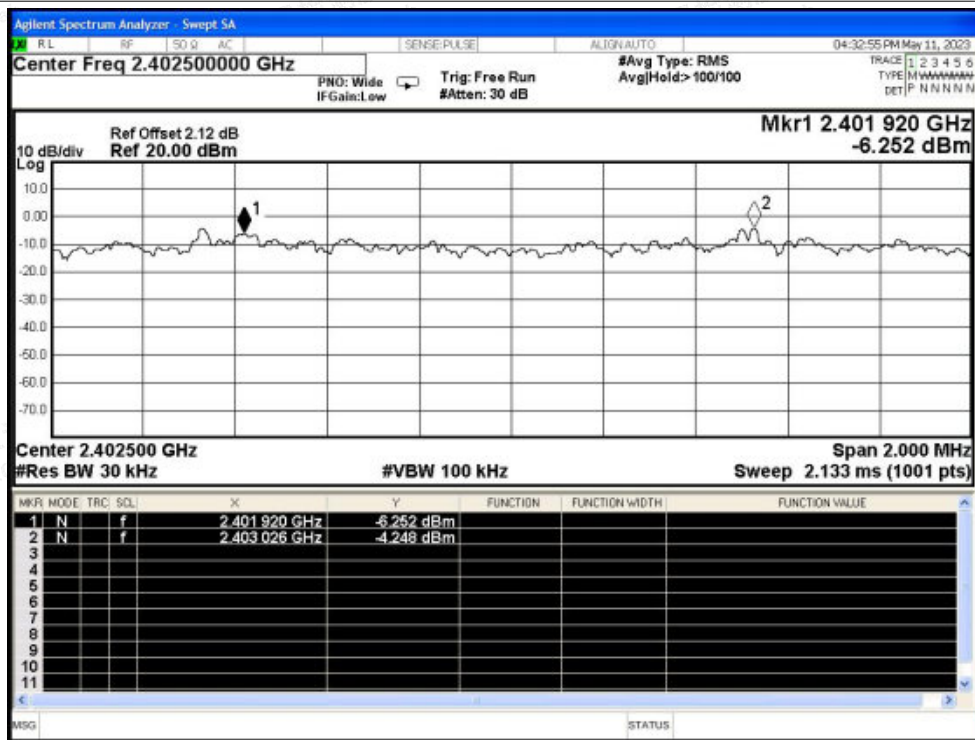


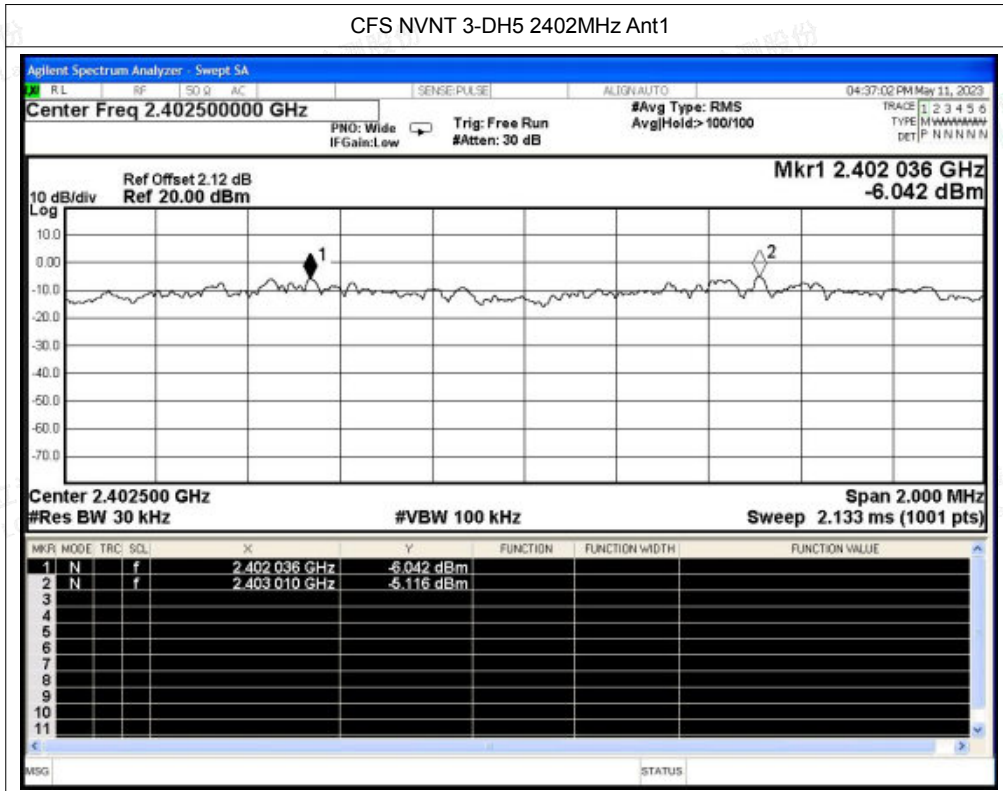
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

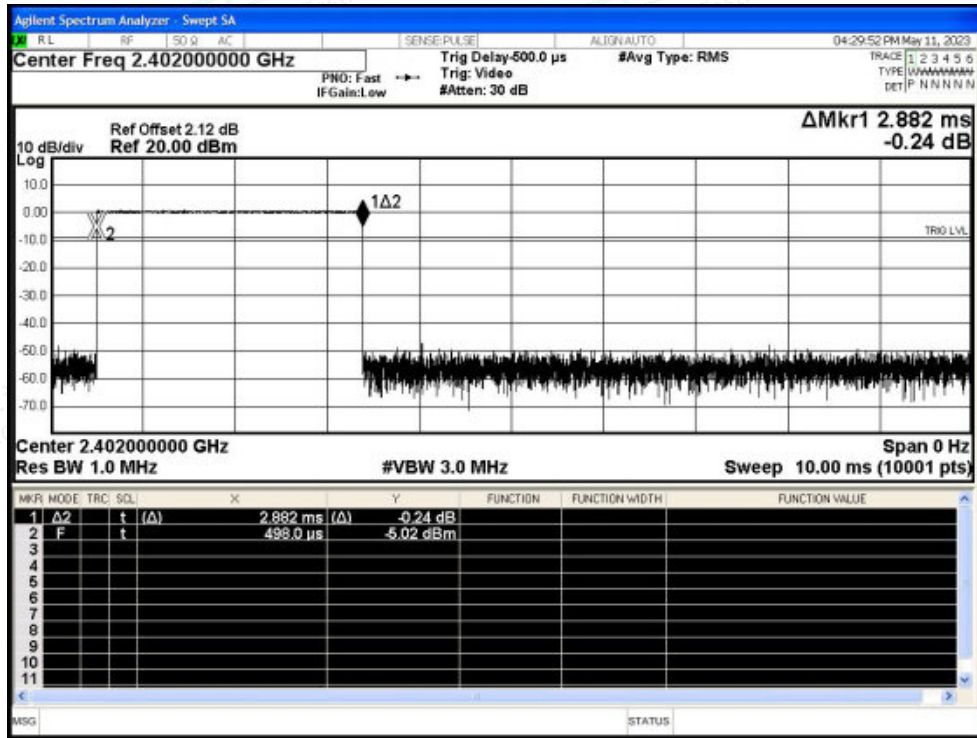
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	282.436	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	299.52	104	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	300.248	104	31600	400	Pass



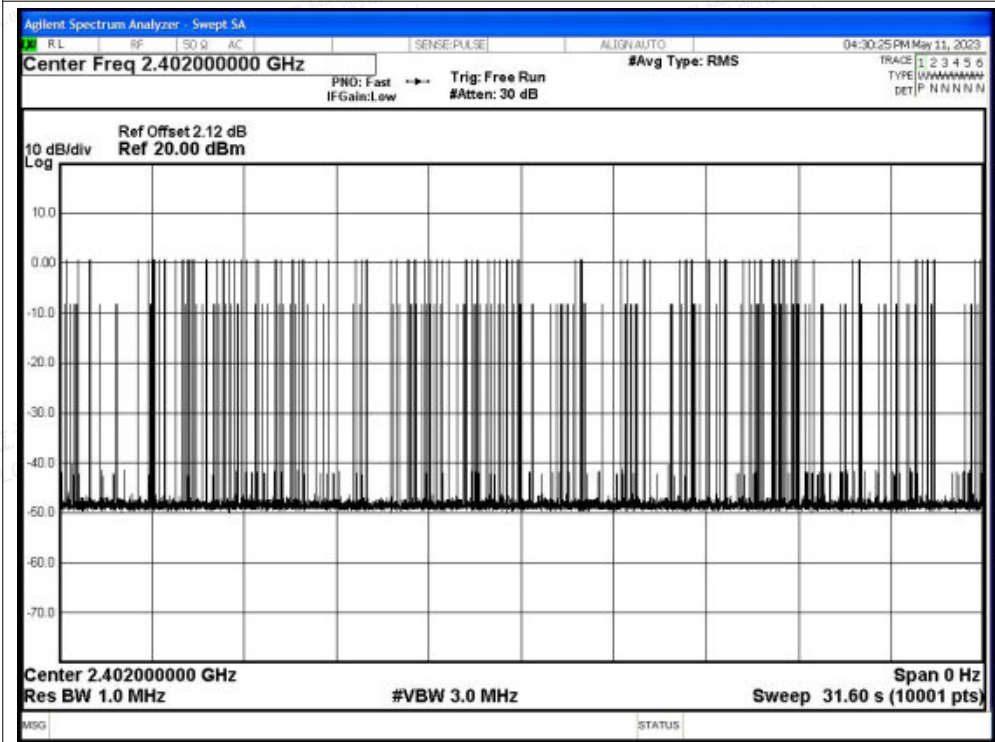


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

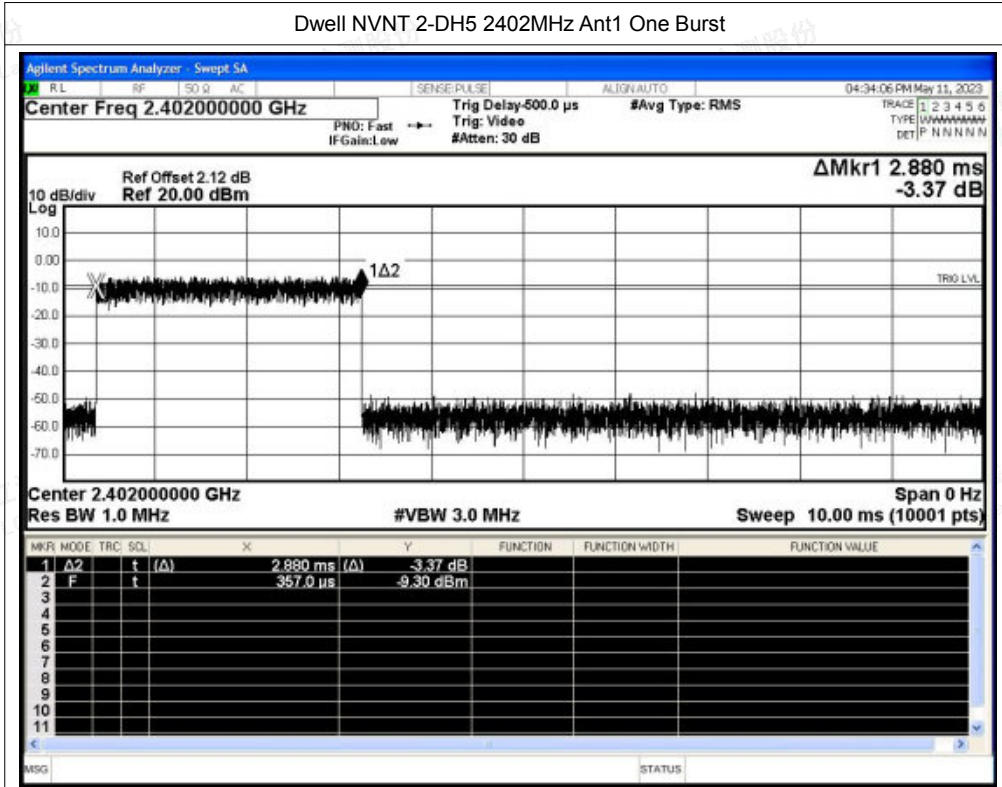


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

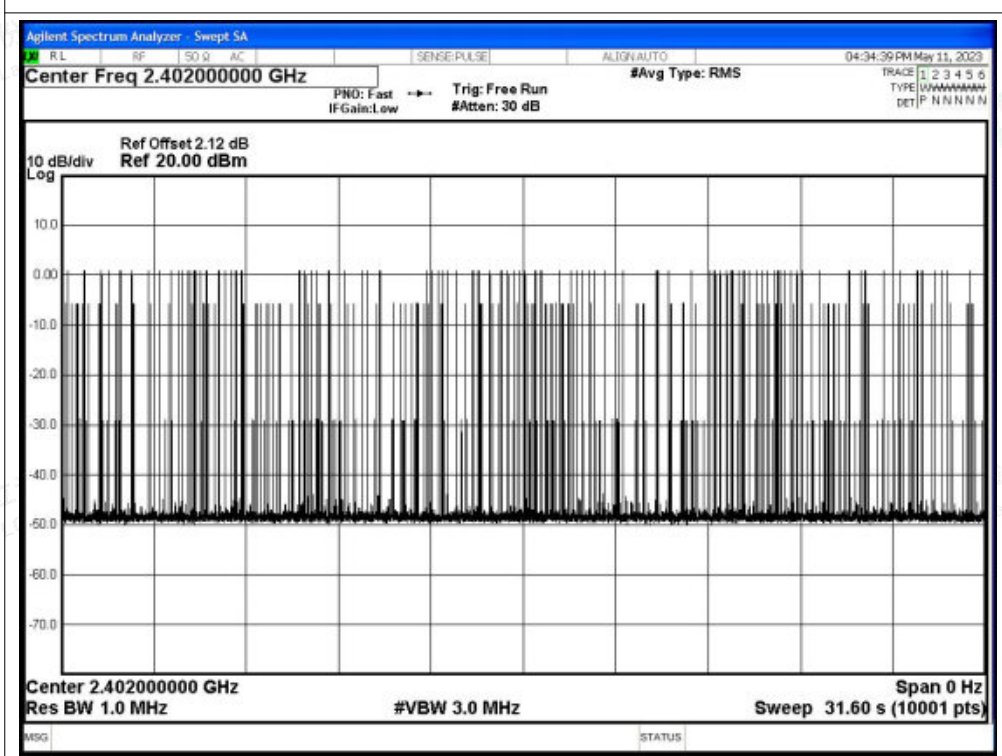




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

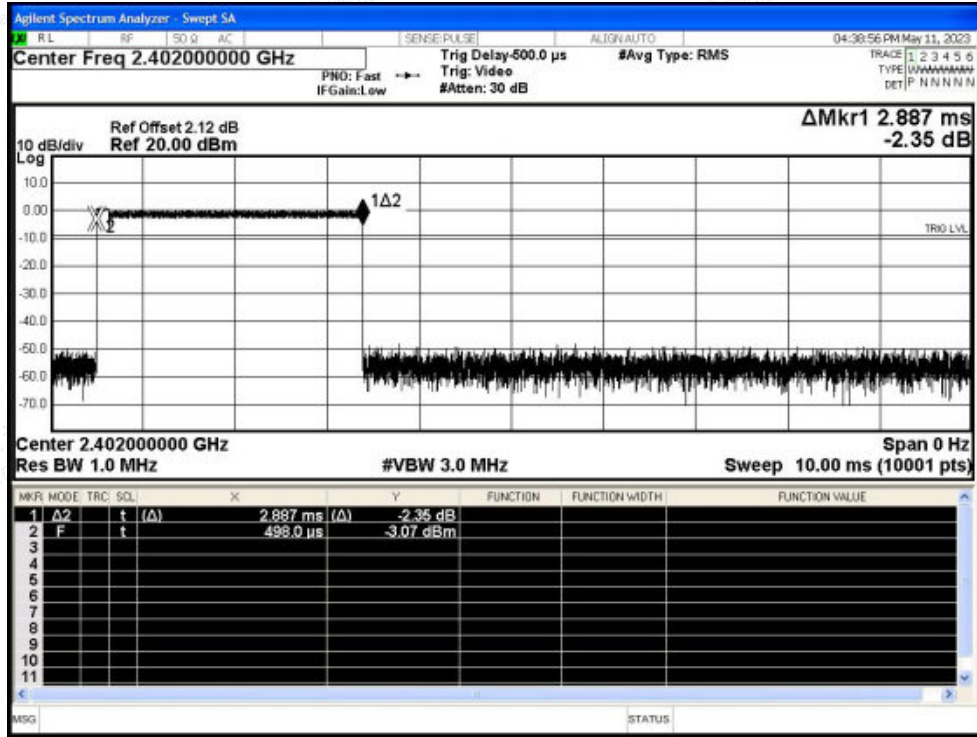


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

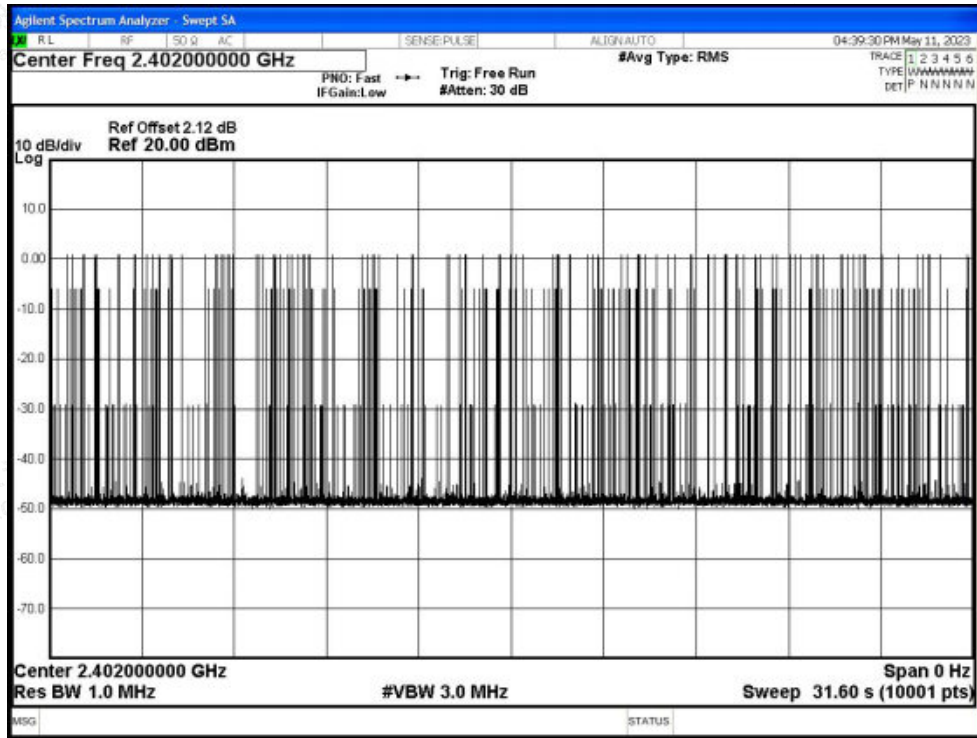




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

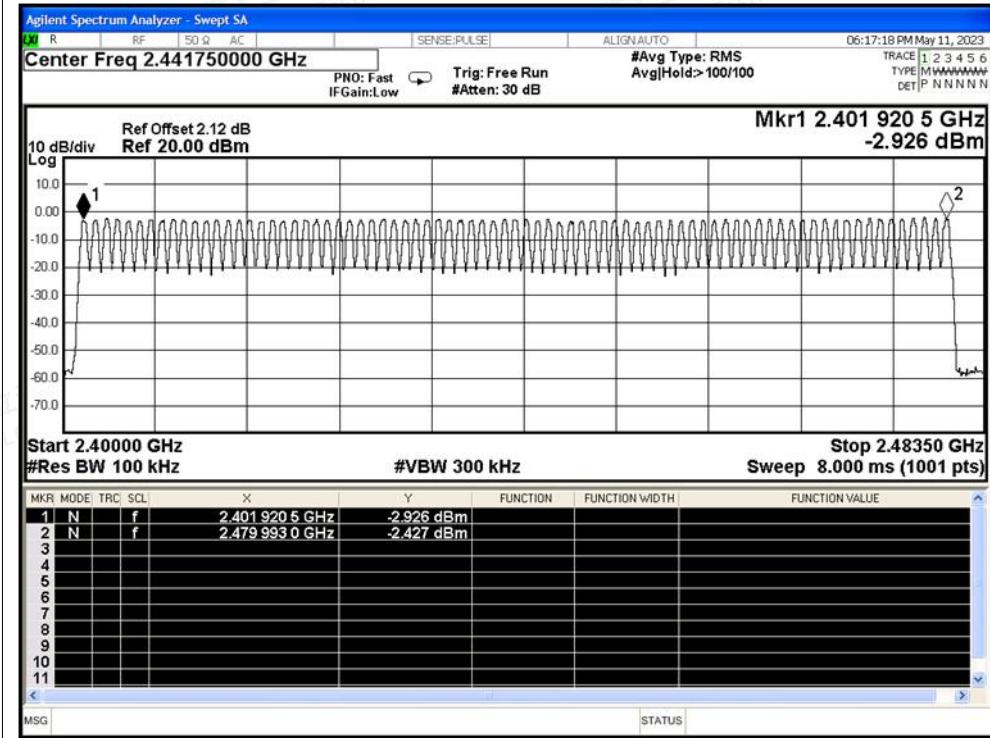
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



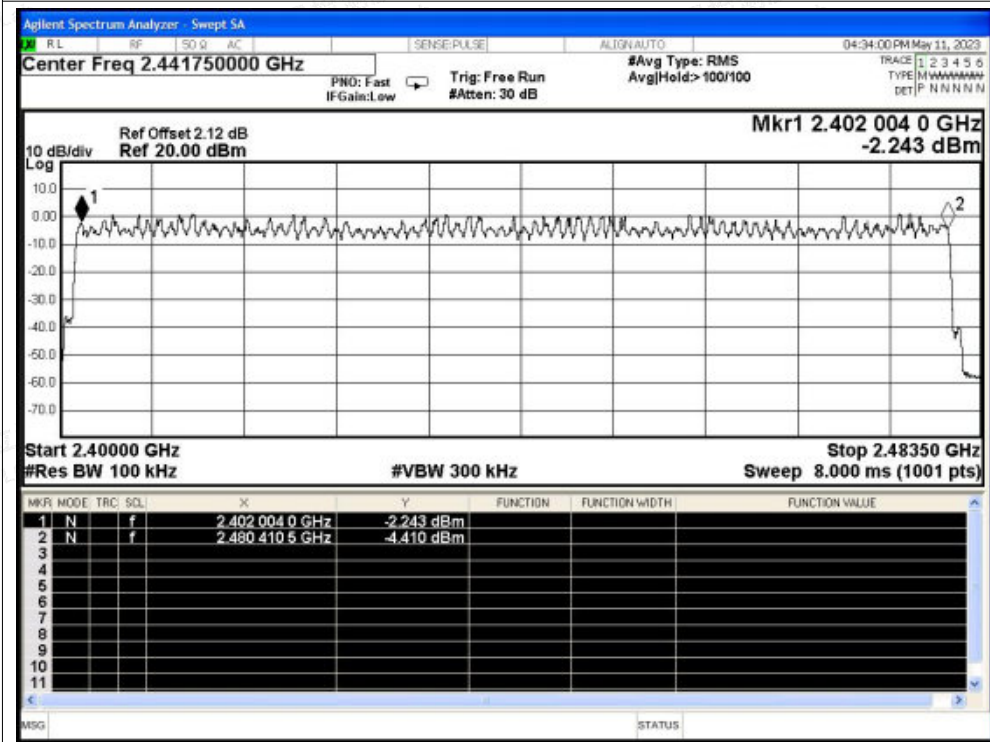


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

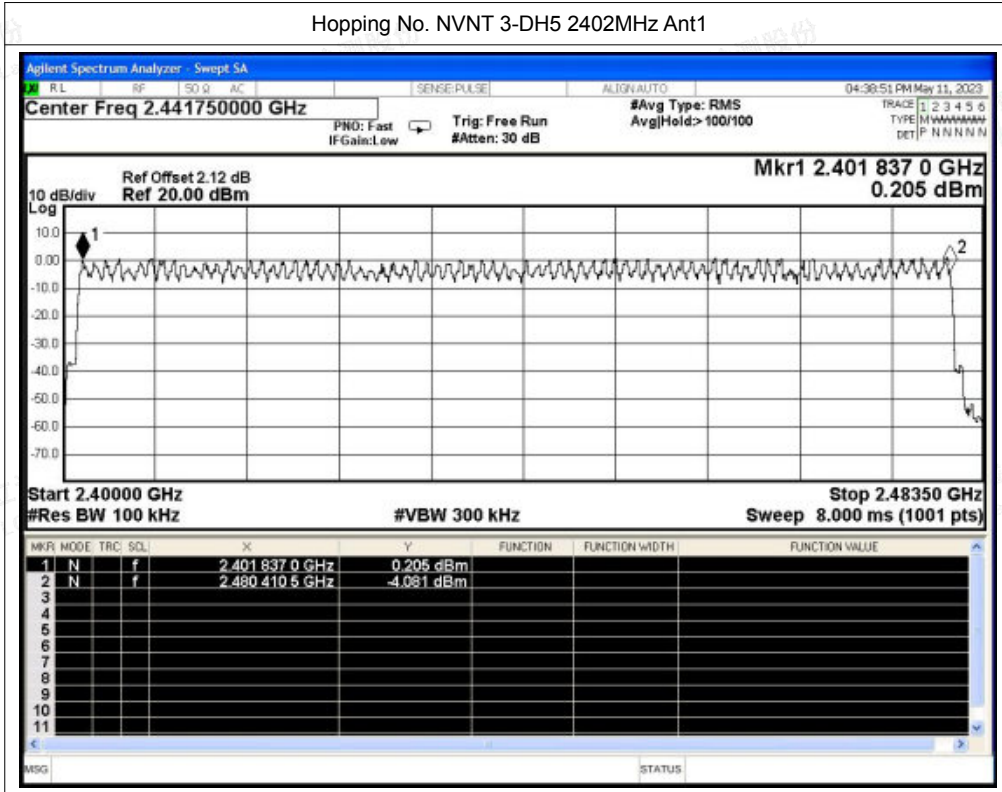


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

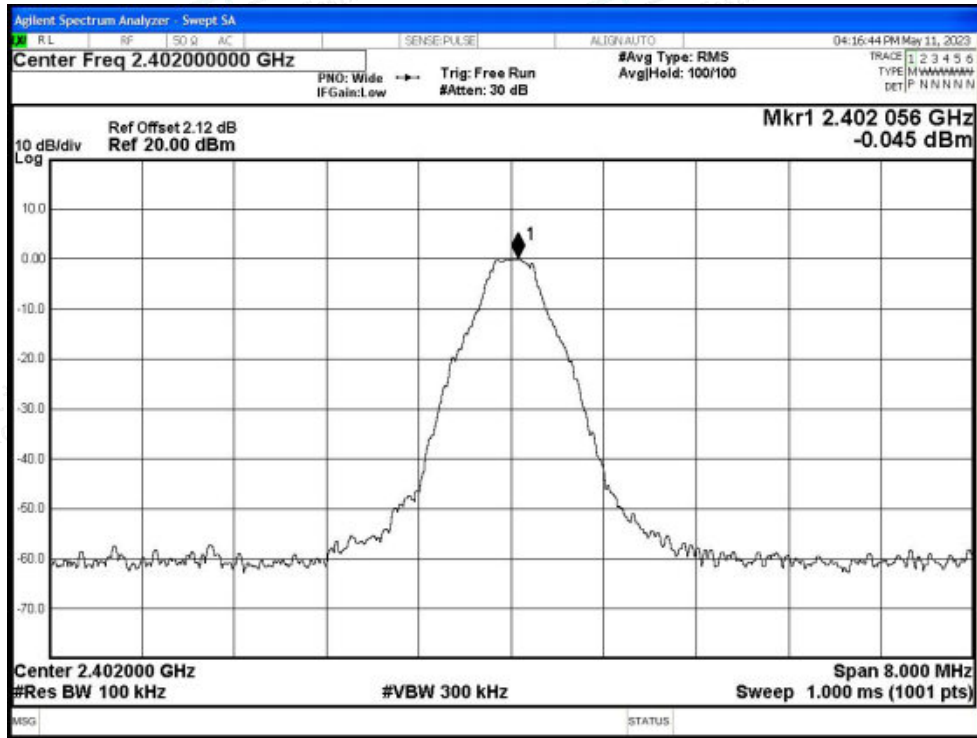
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.06	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.65	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.31	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.1	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.38	-20	Pass



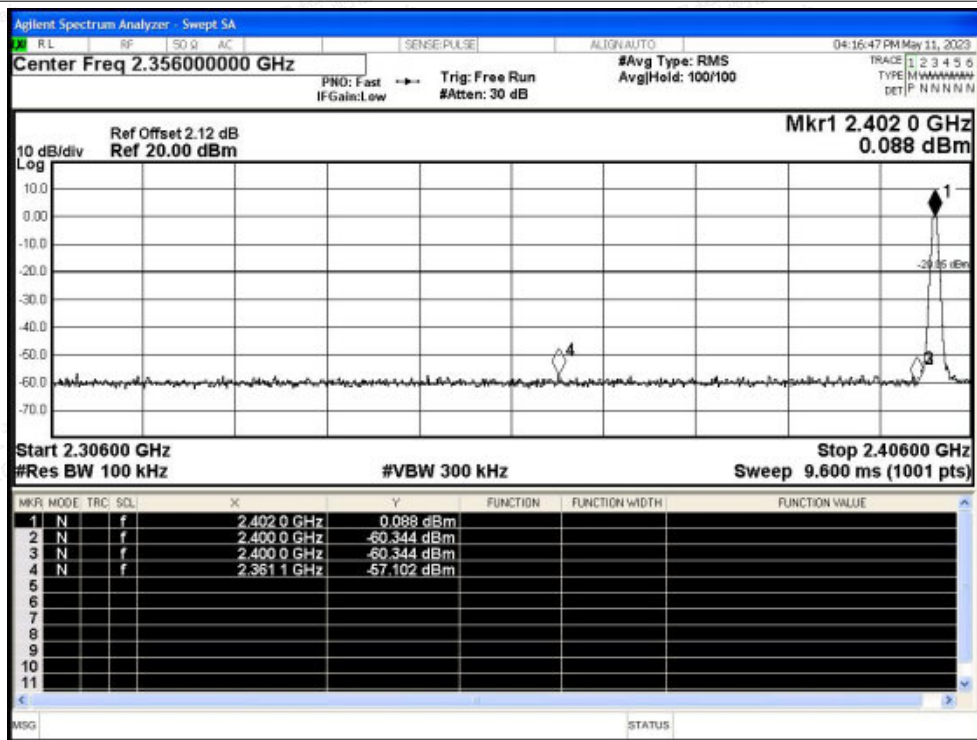


Test Graphs

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

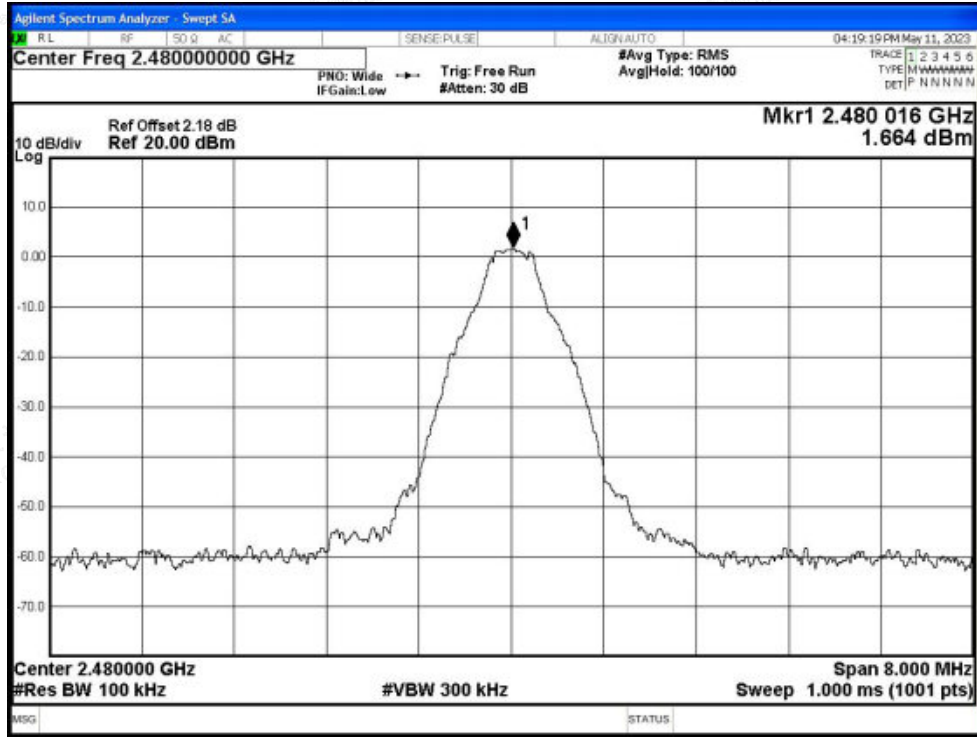


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

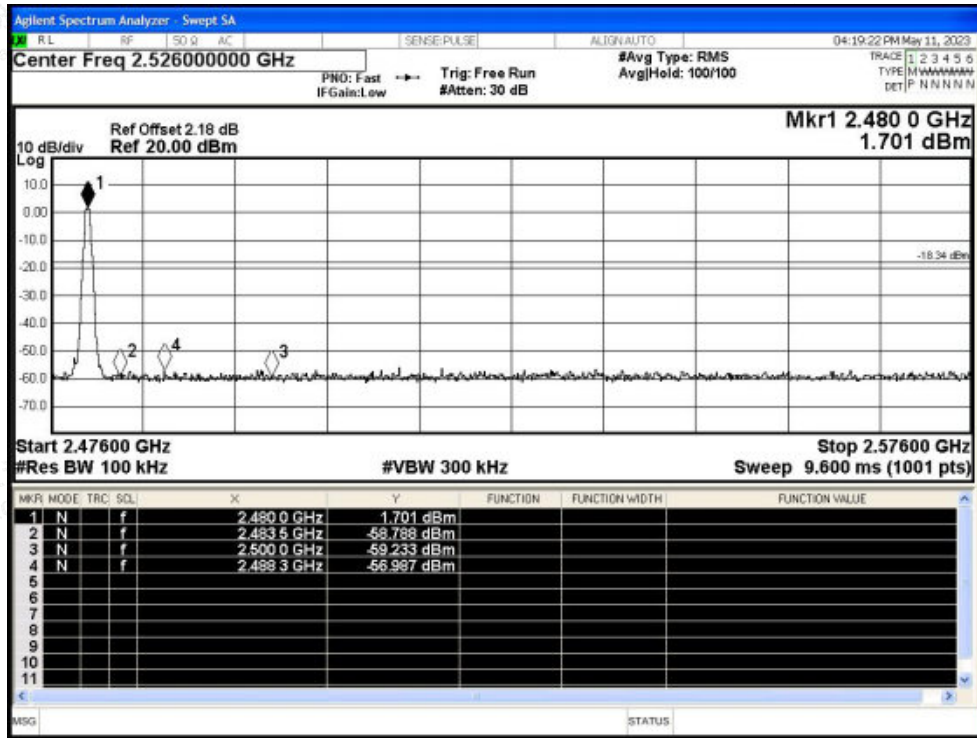




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

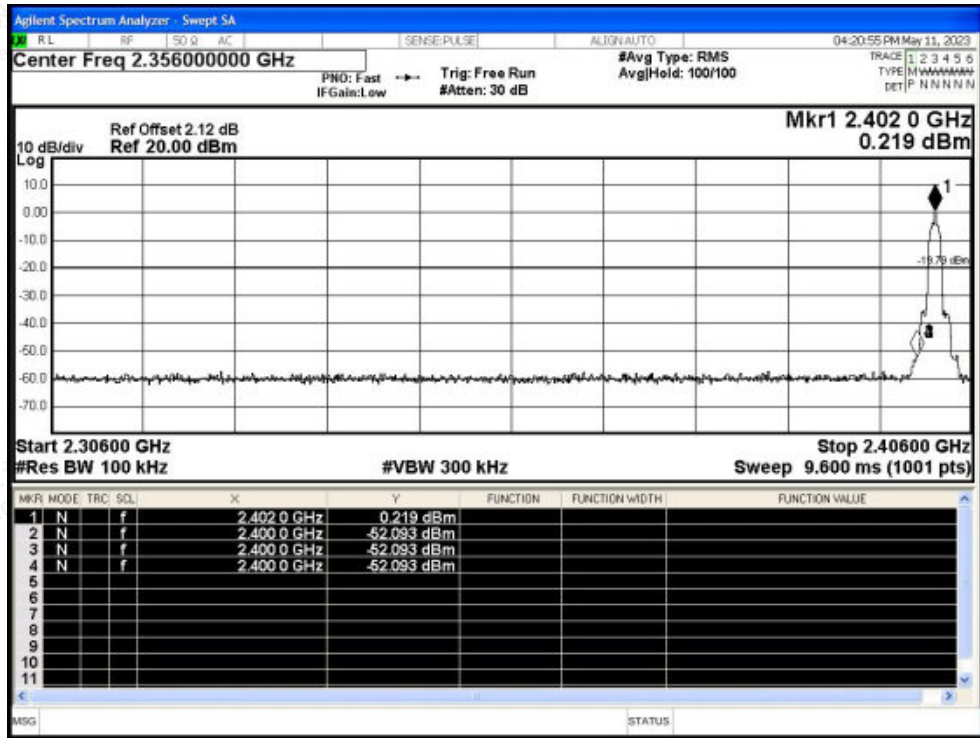




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

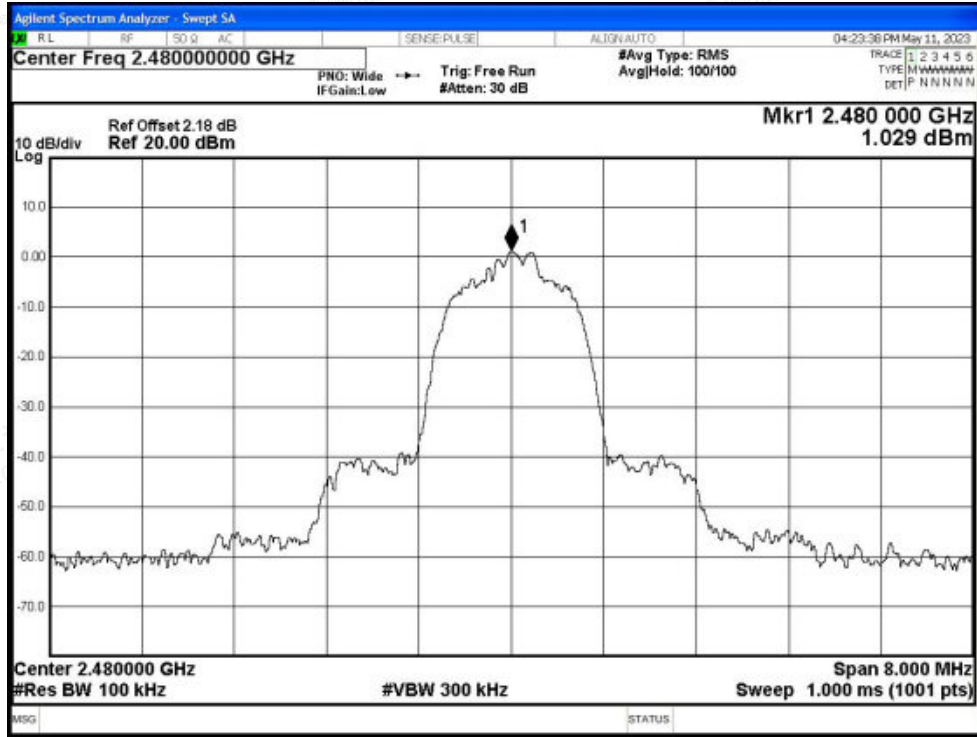


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

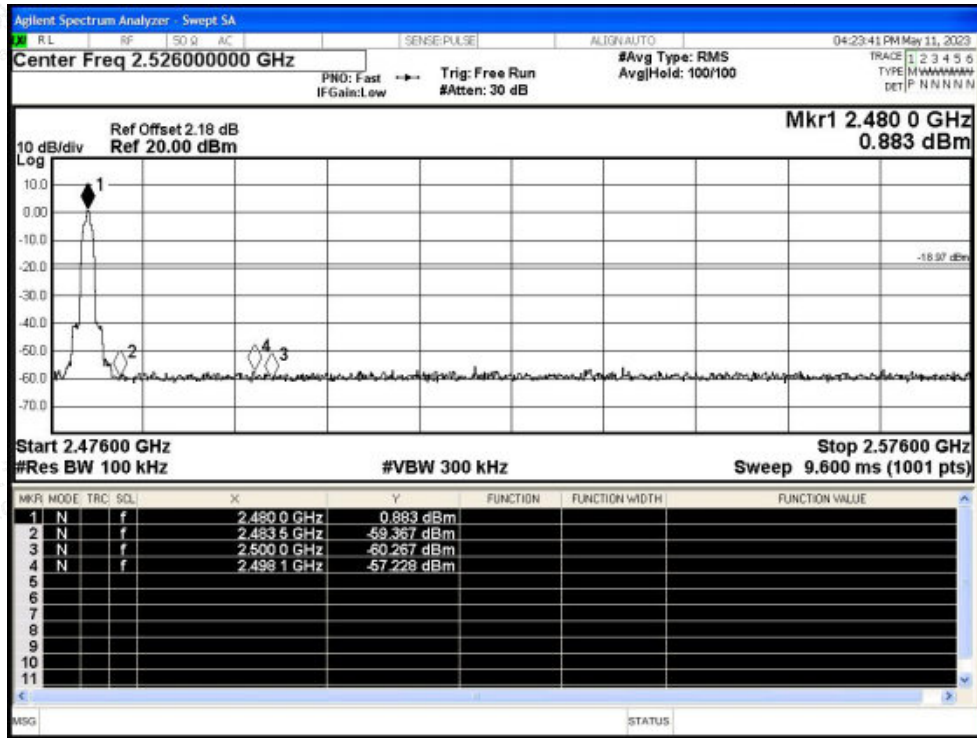




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

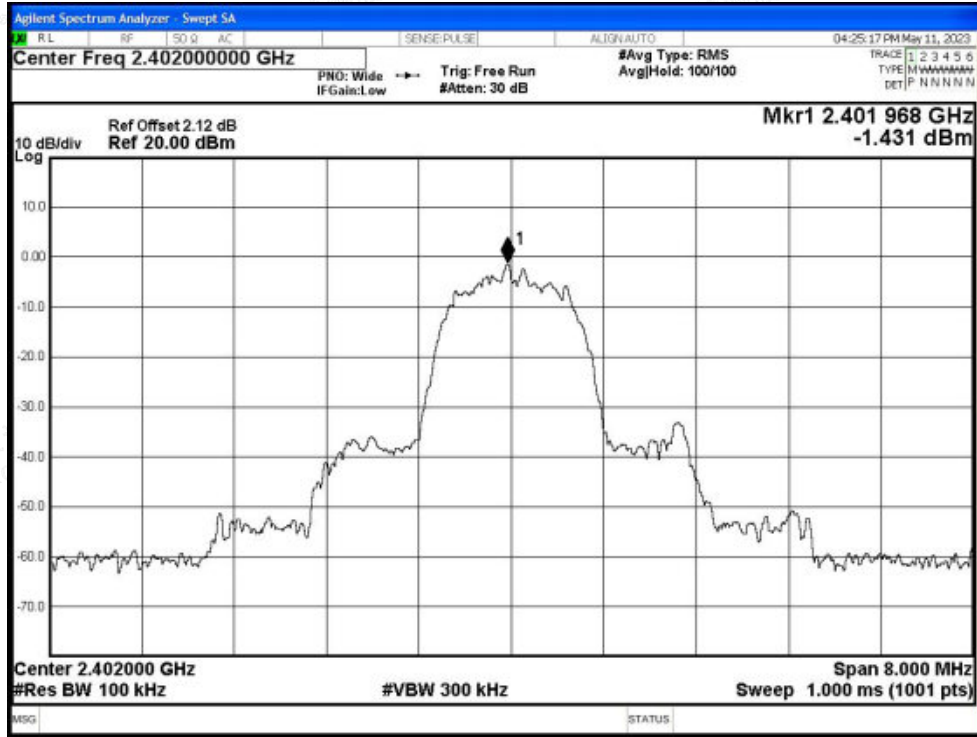


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

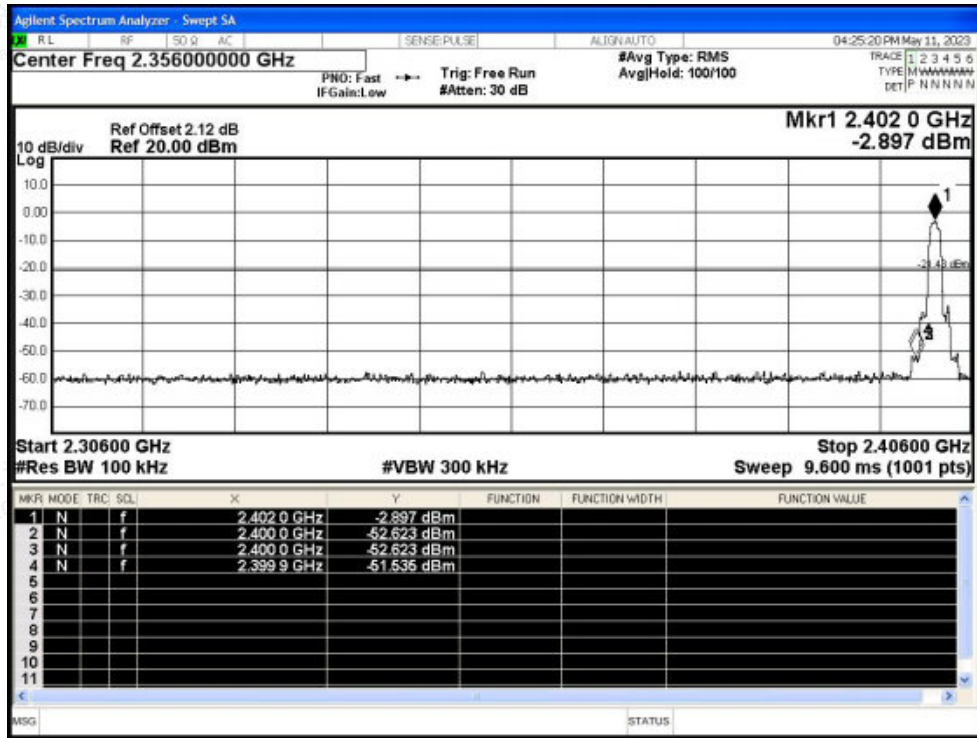




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

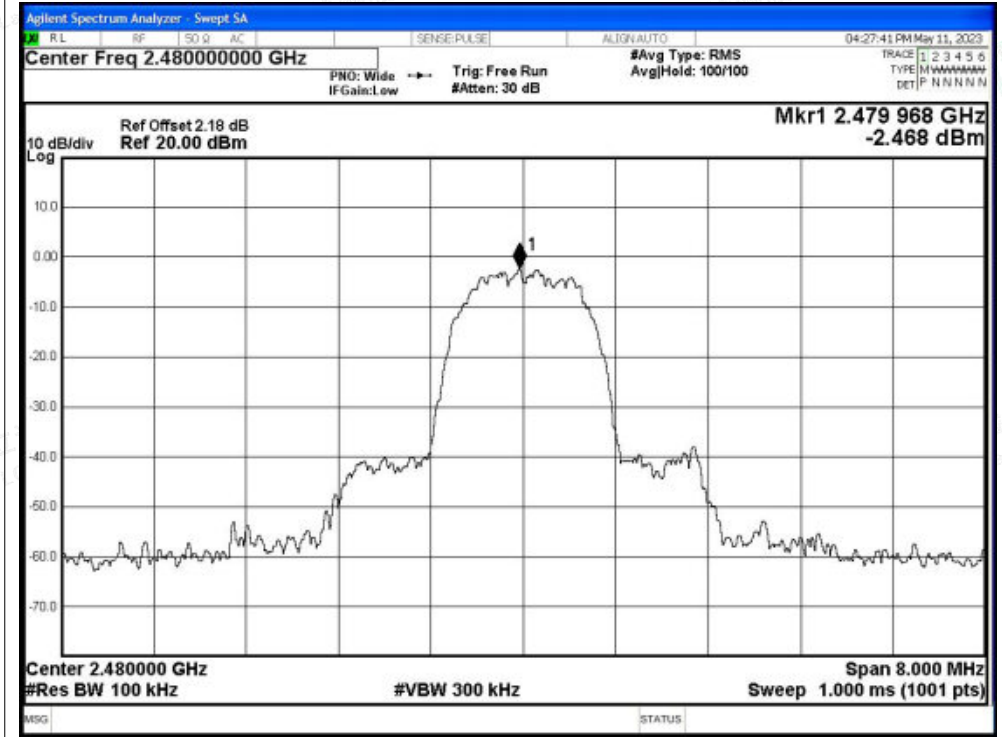


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

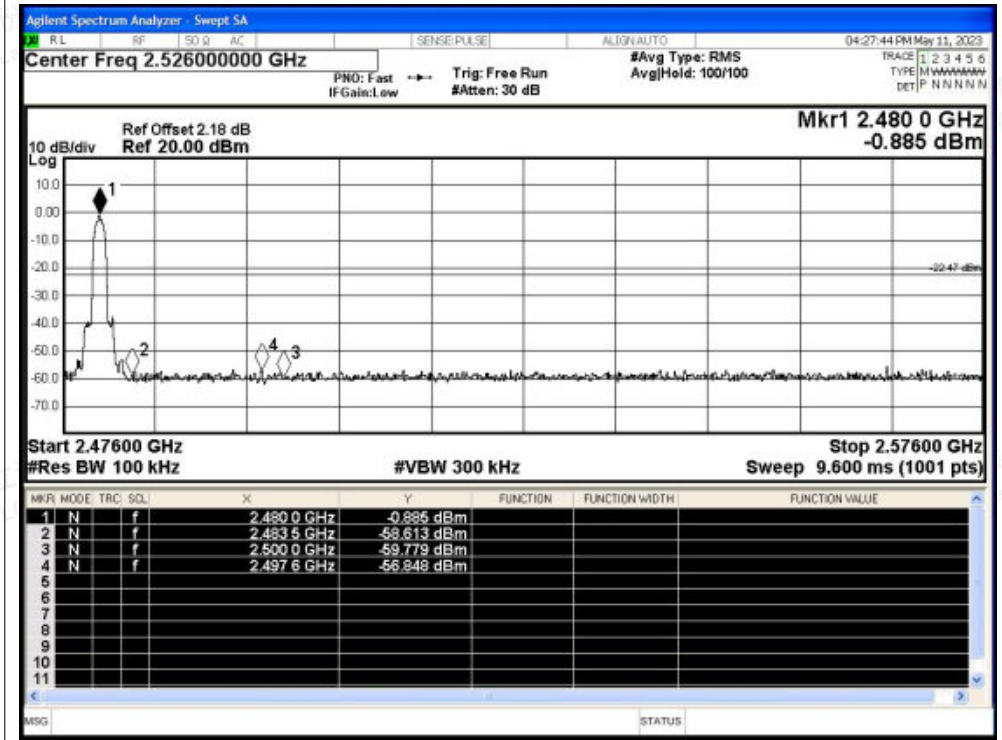




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-56.4	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.49	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.44	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.29	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.82	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.96	-20	Pass



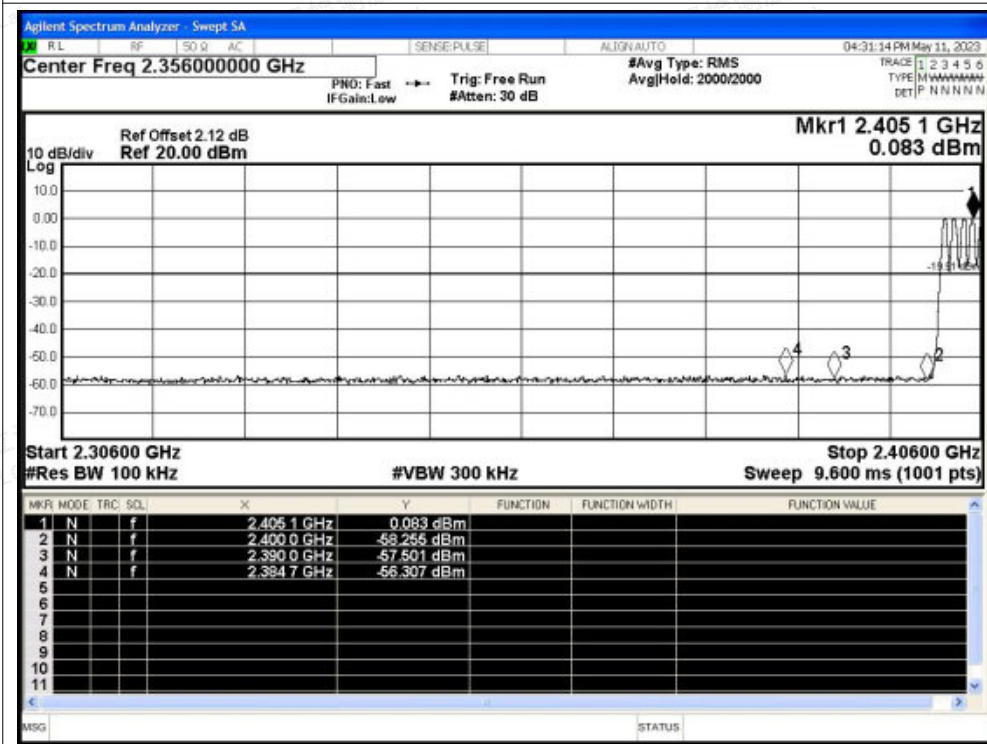


Test Graphs

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

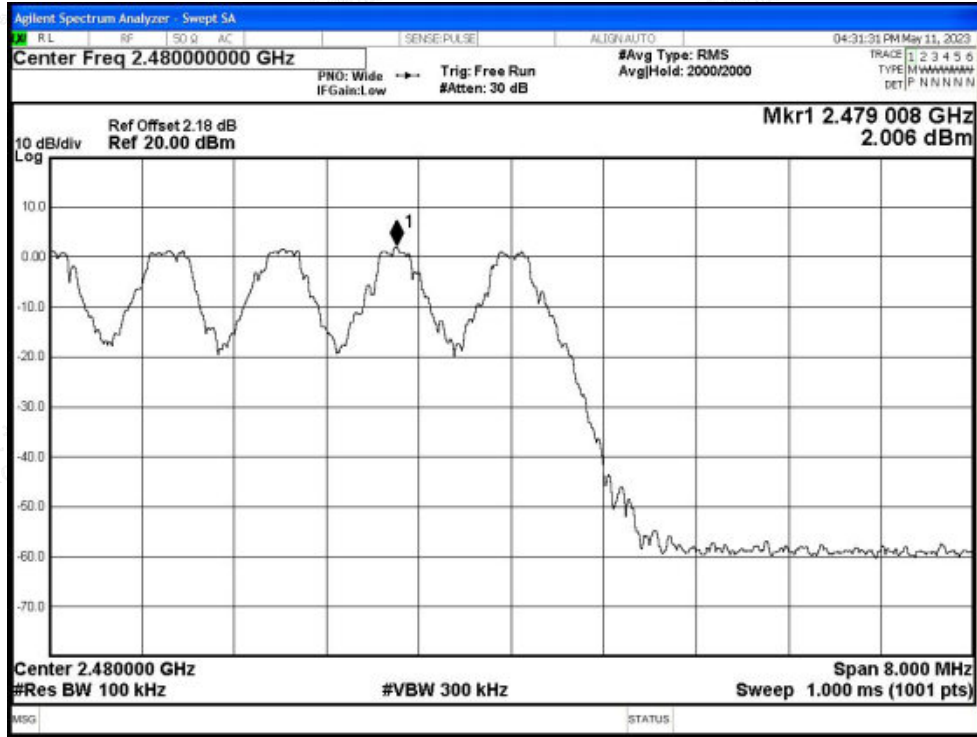


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

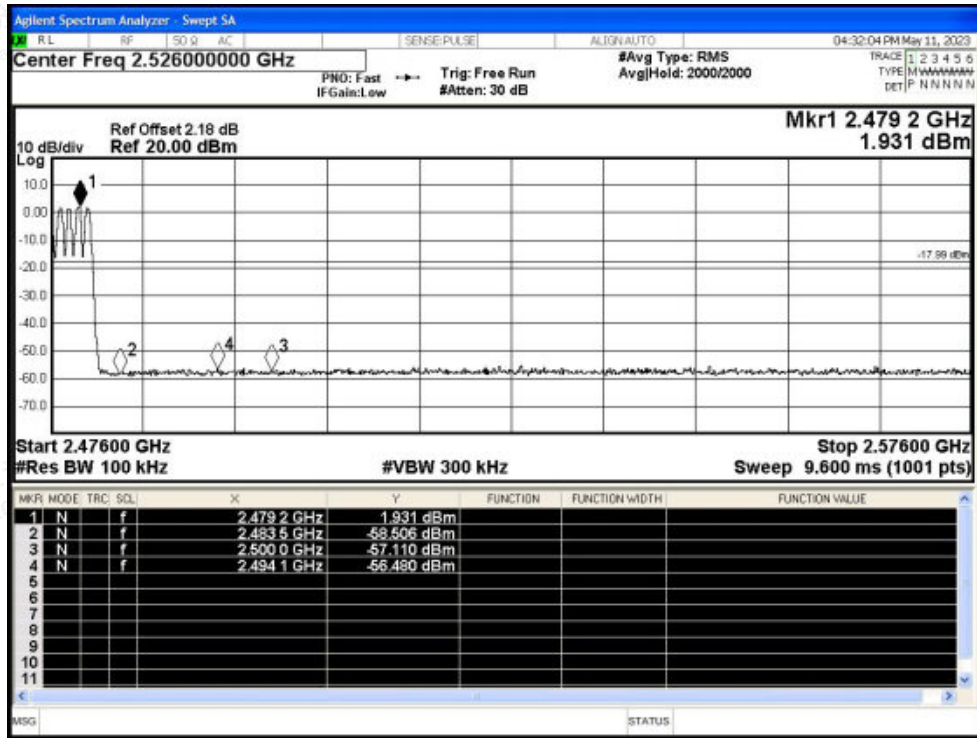




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

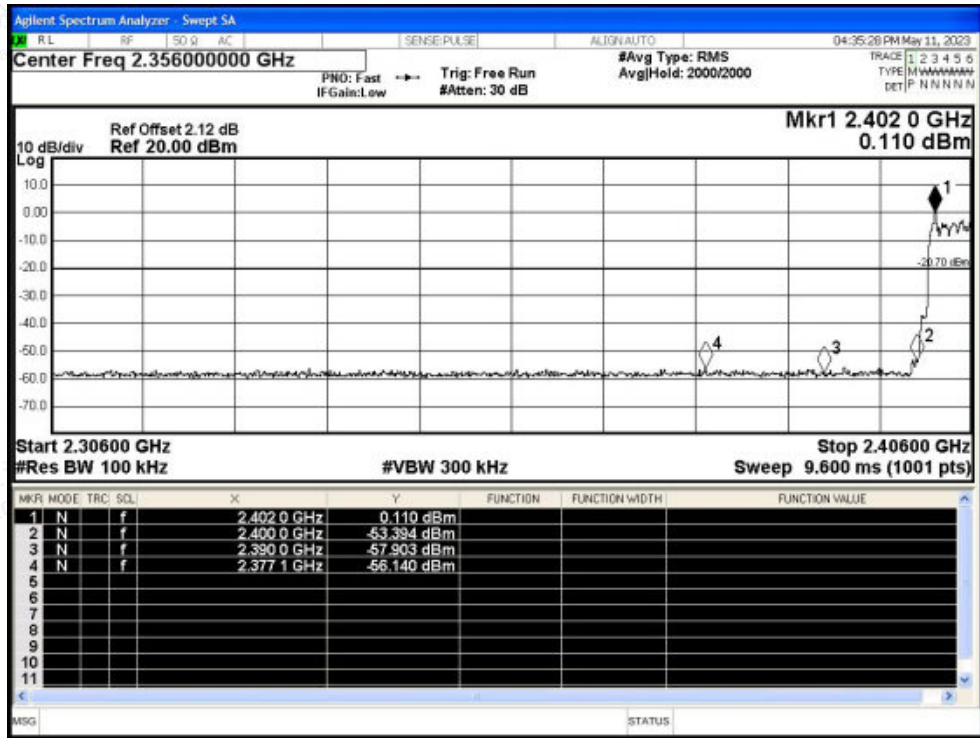




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

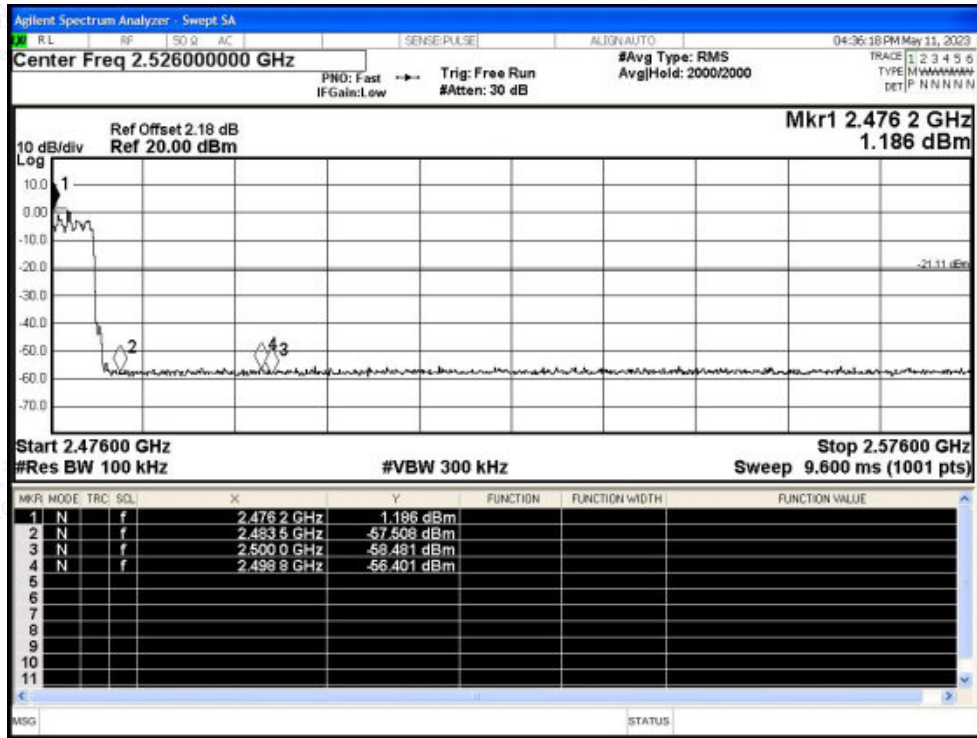




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

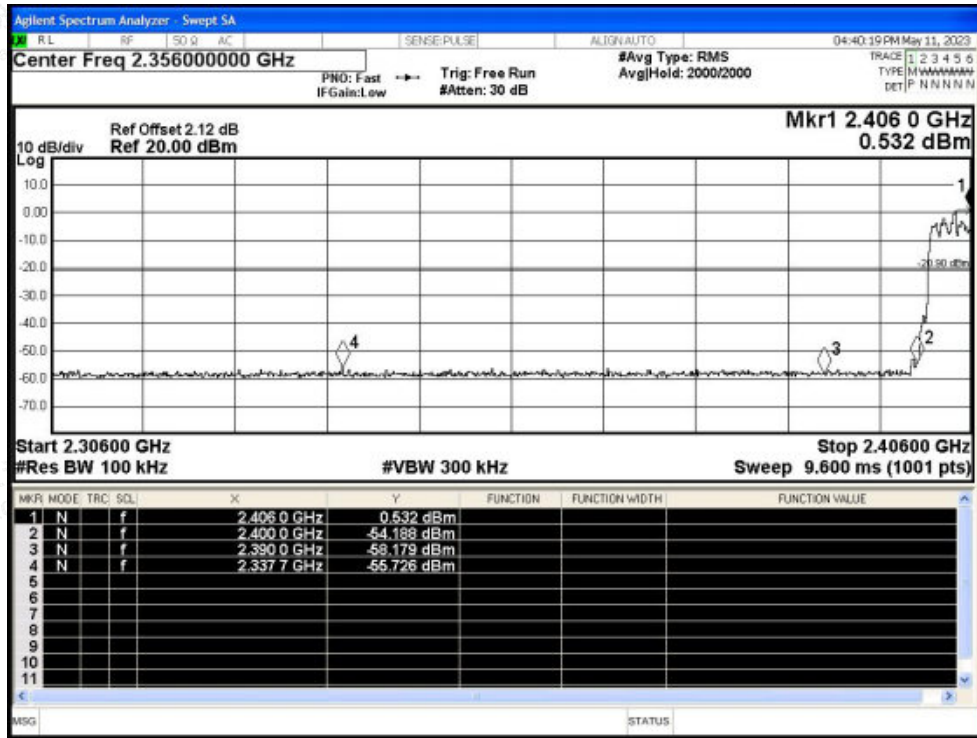




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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

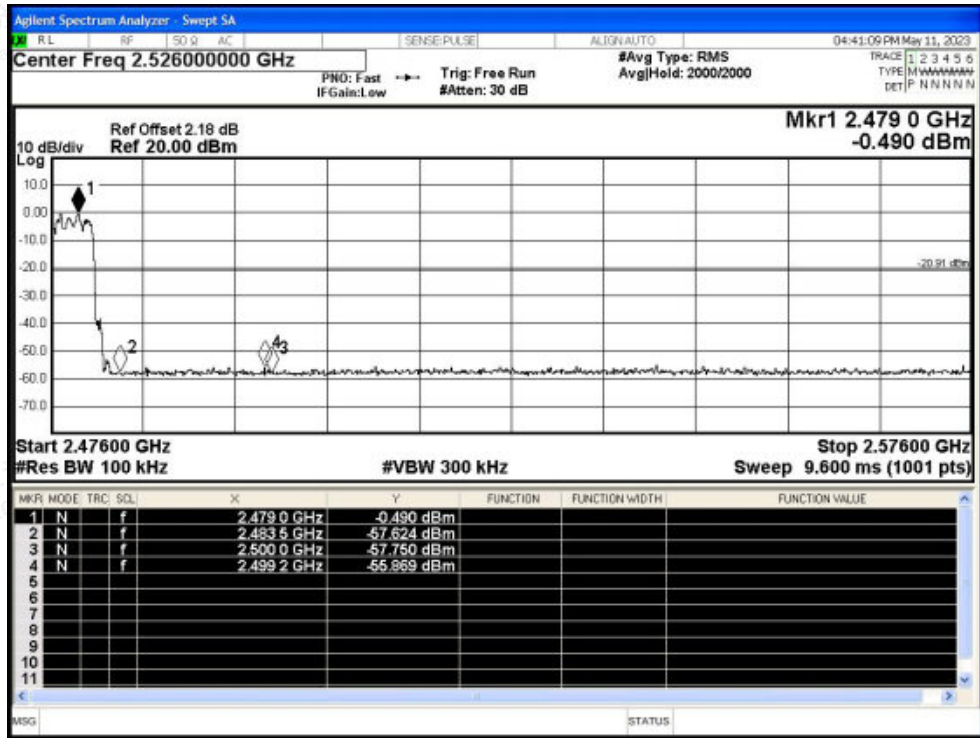




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

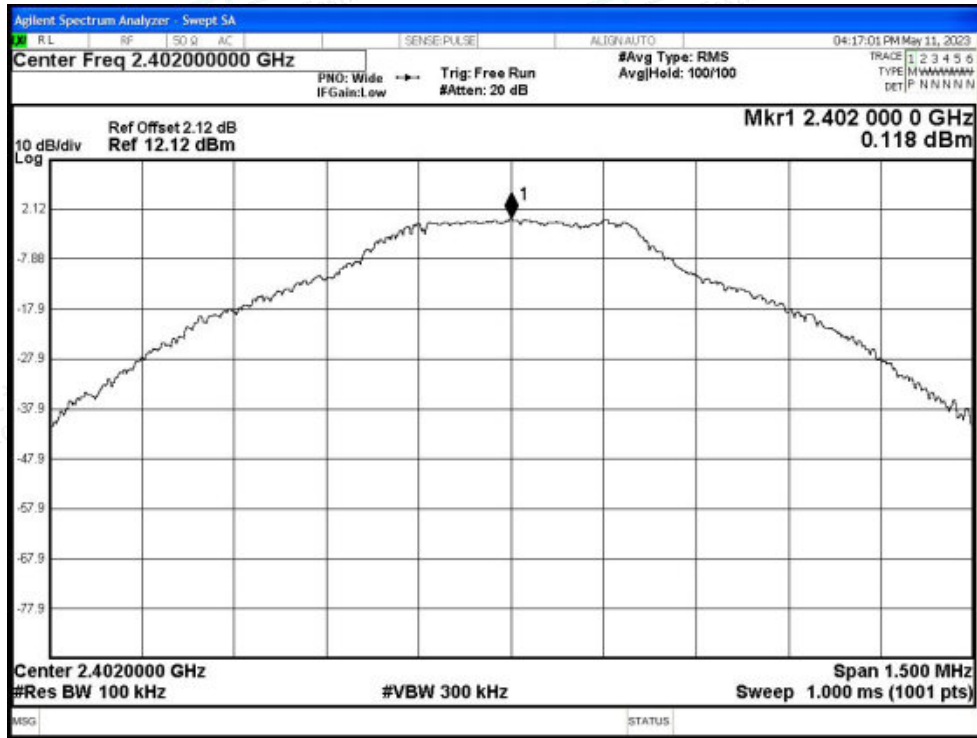
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.34	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.35	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.12	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.18	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.88	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.24	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.24	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.71	-20	Pass



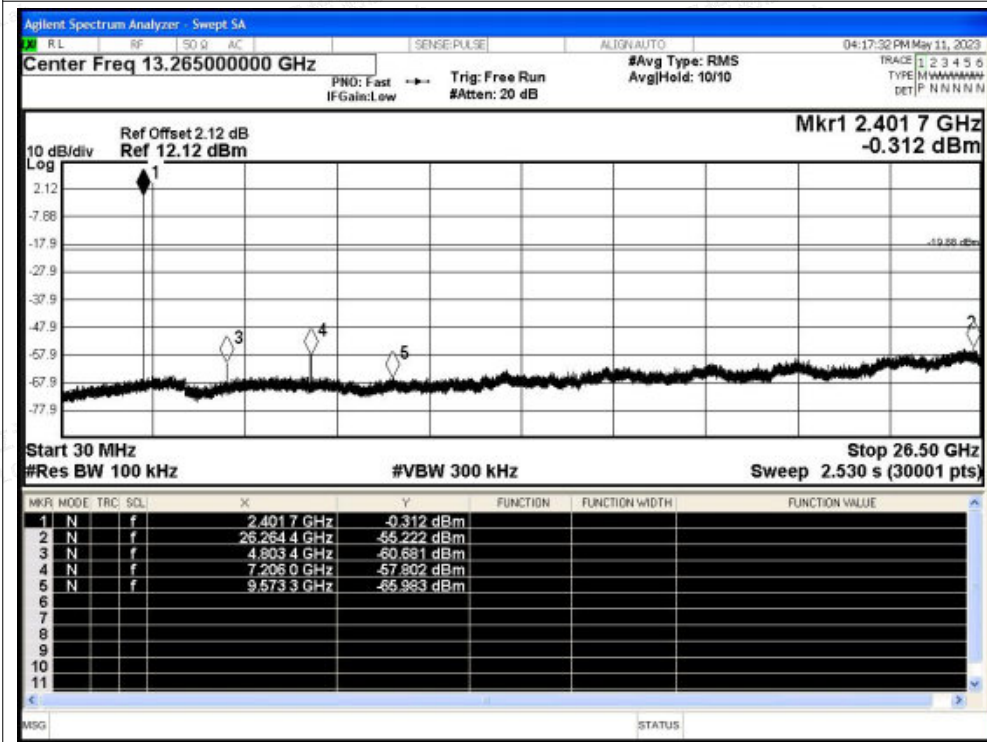


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

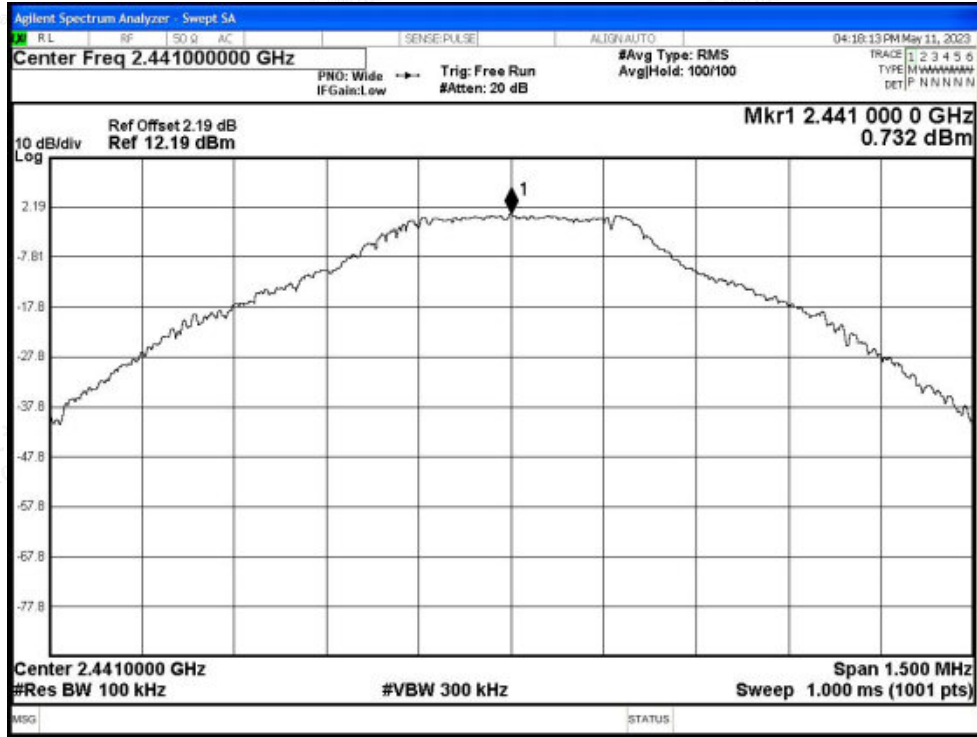


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

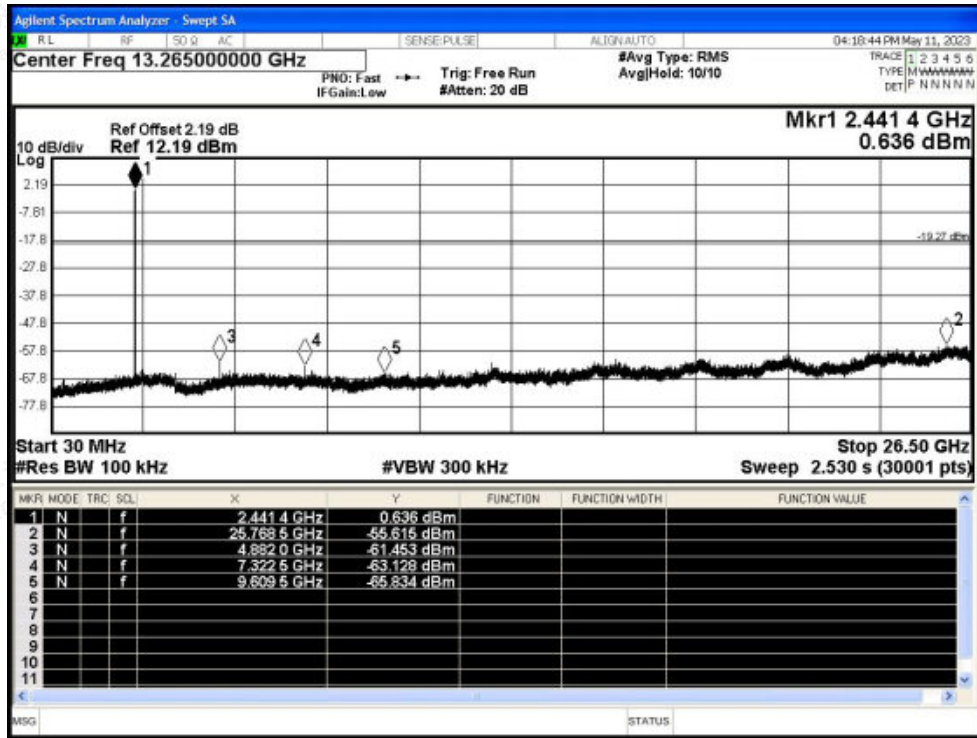




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

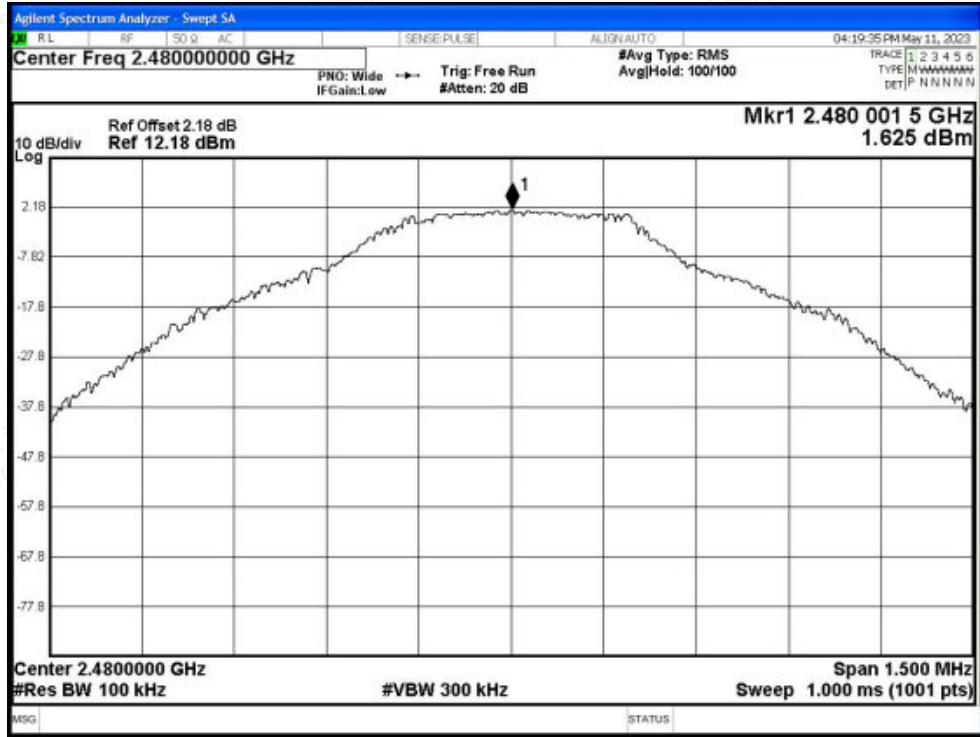


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

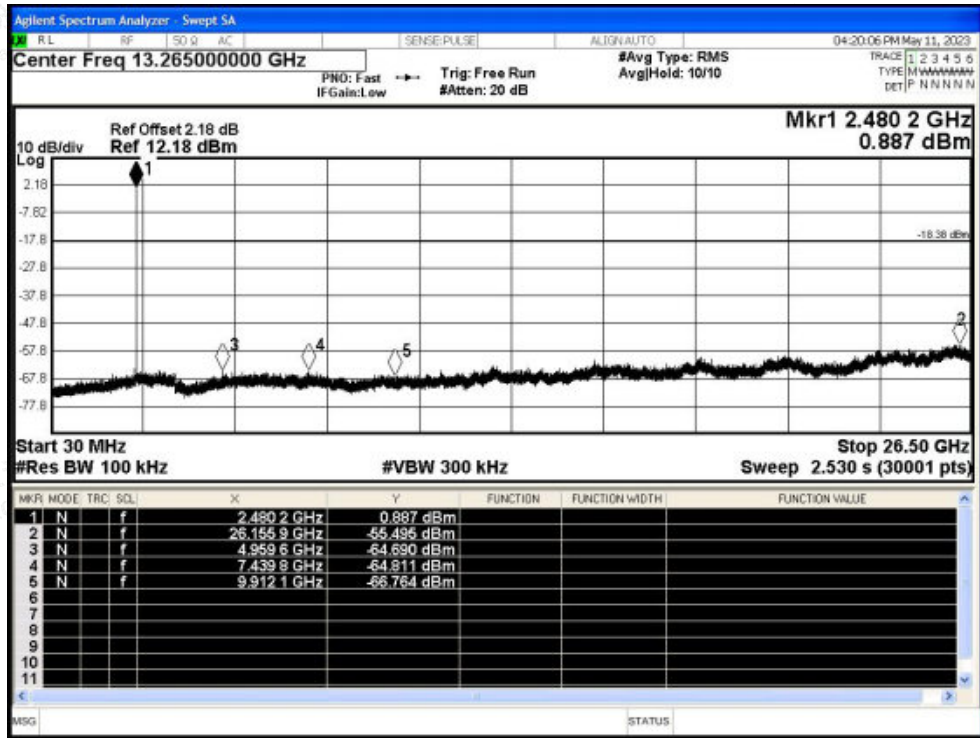




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

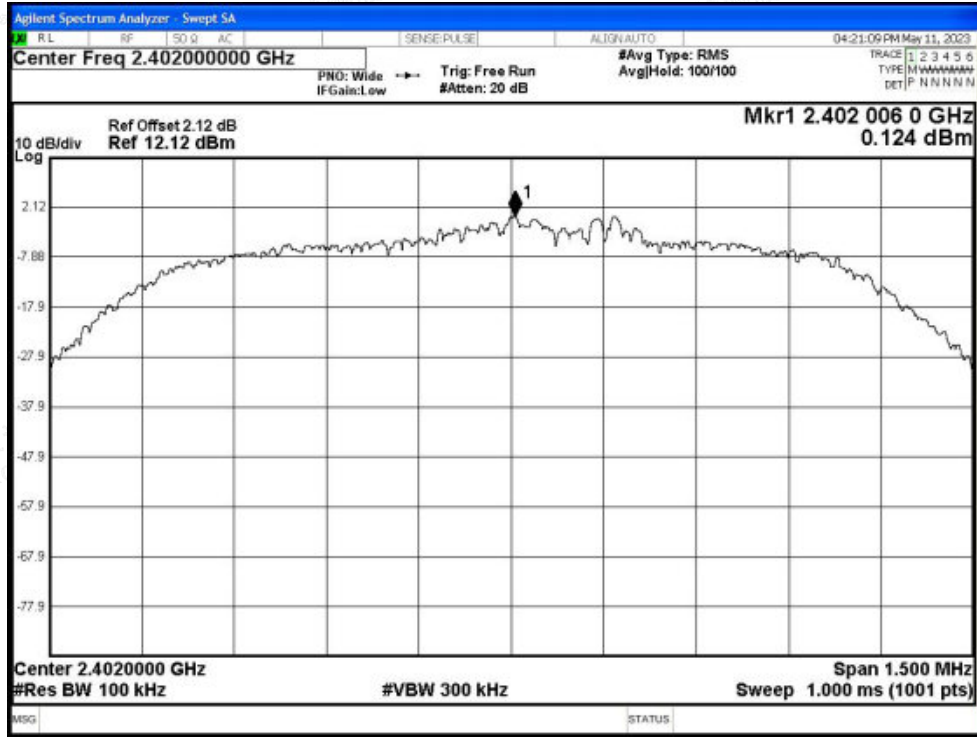


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

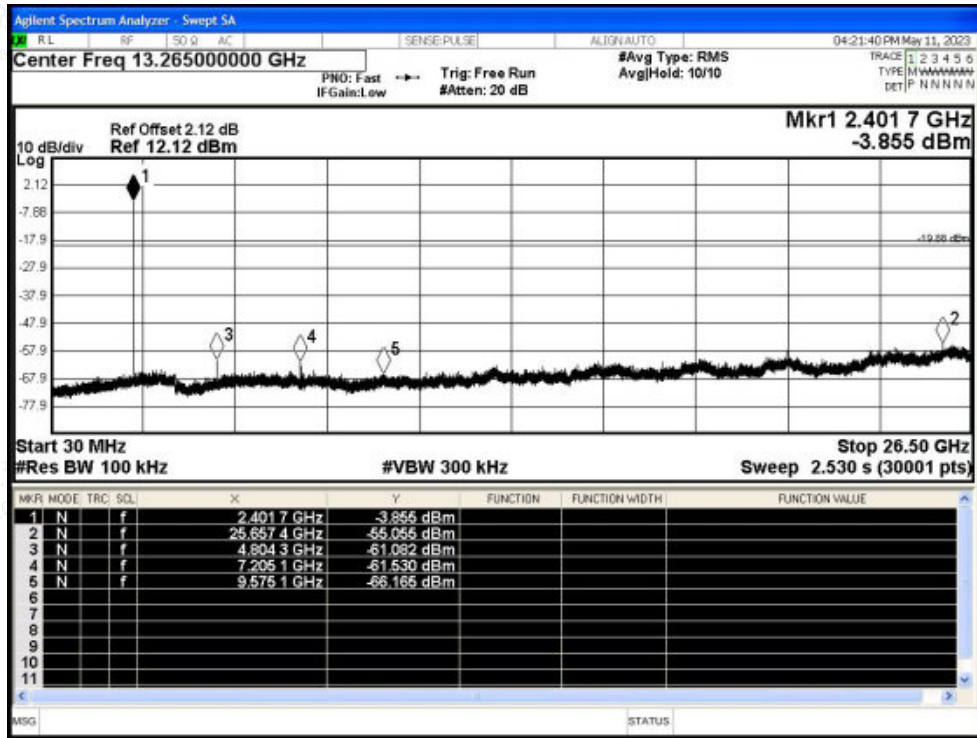




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

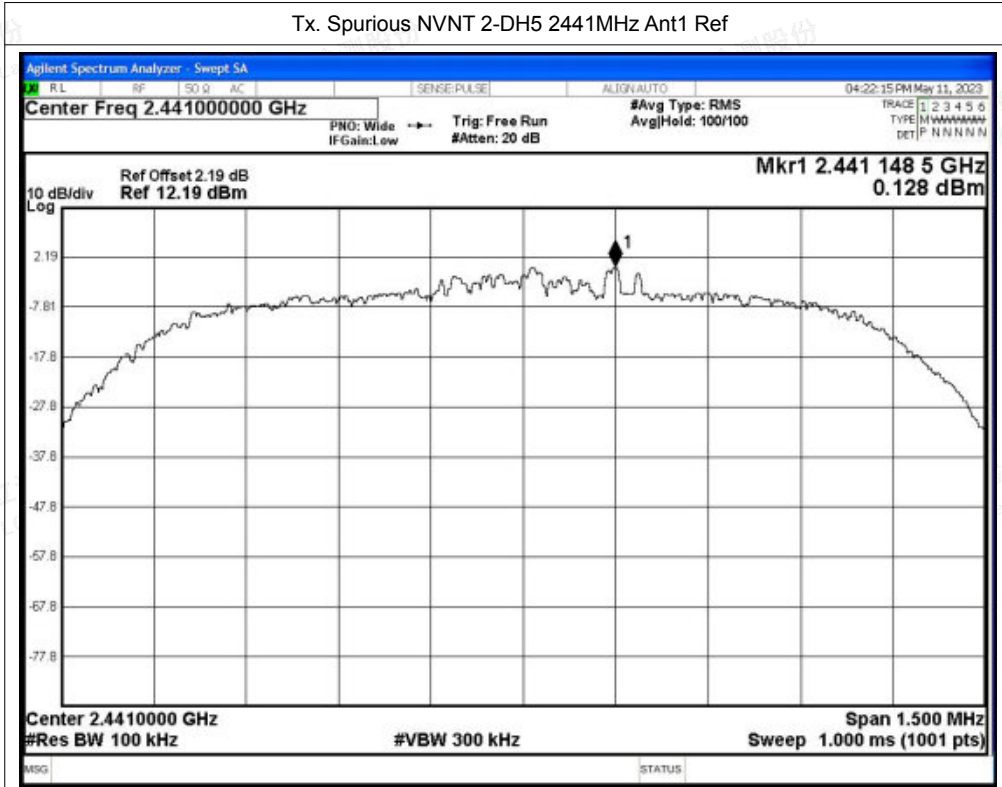


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

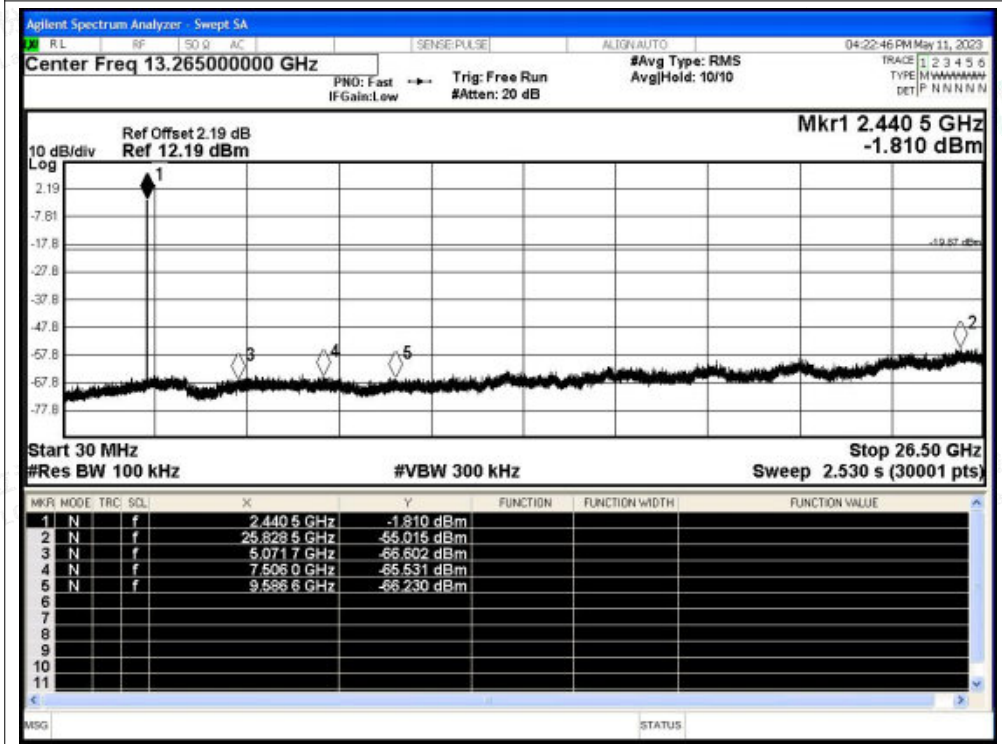




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

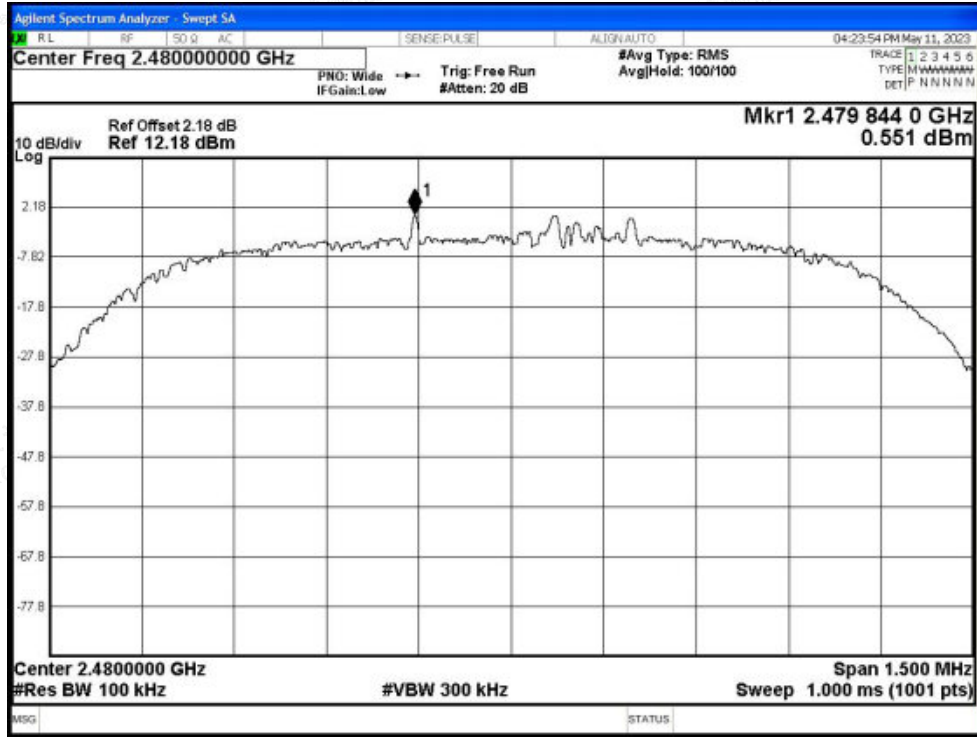


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

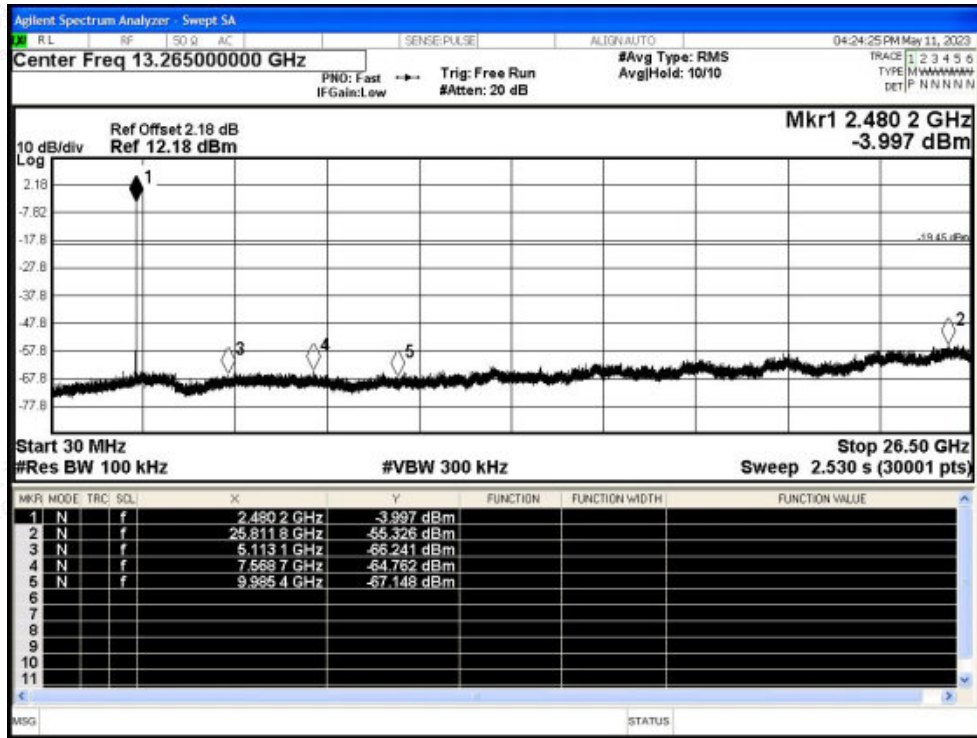




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

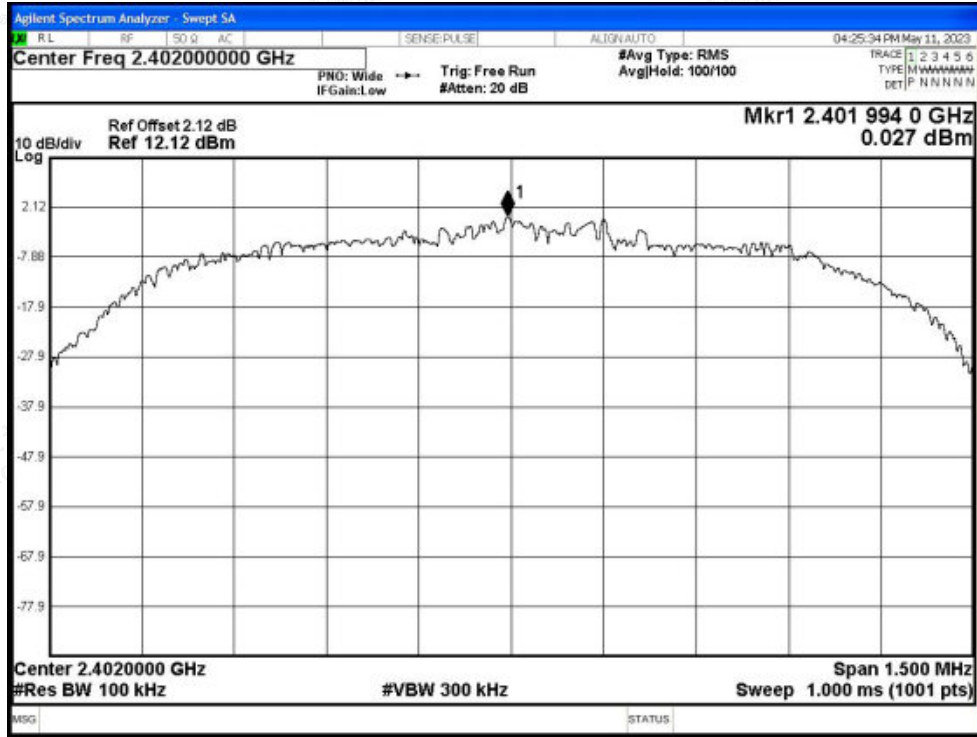


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

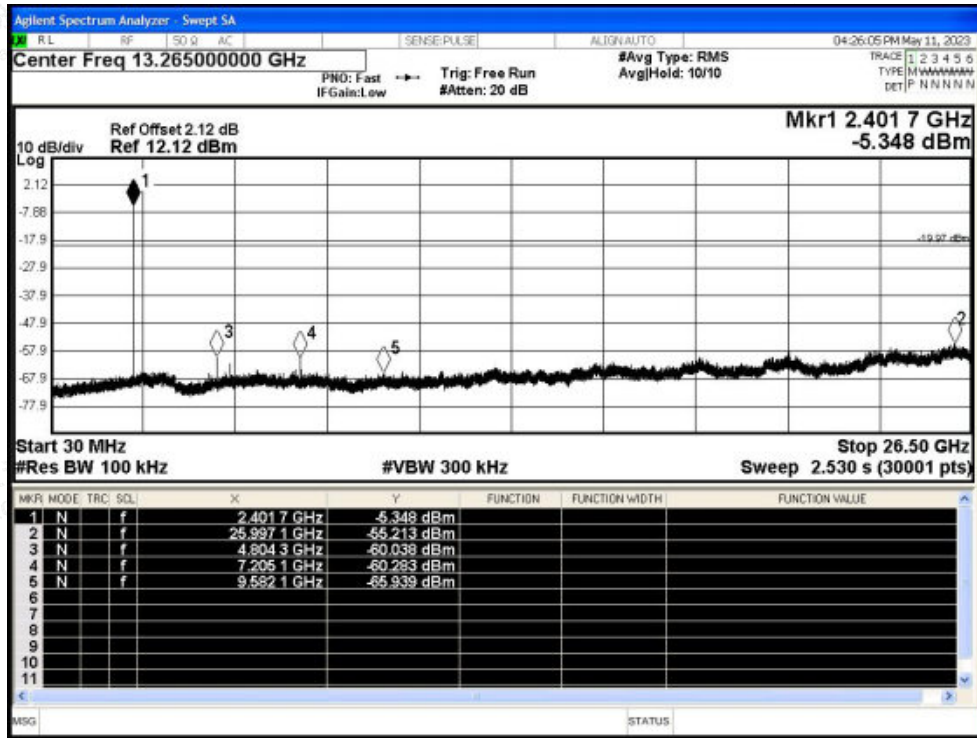




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

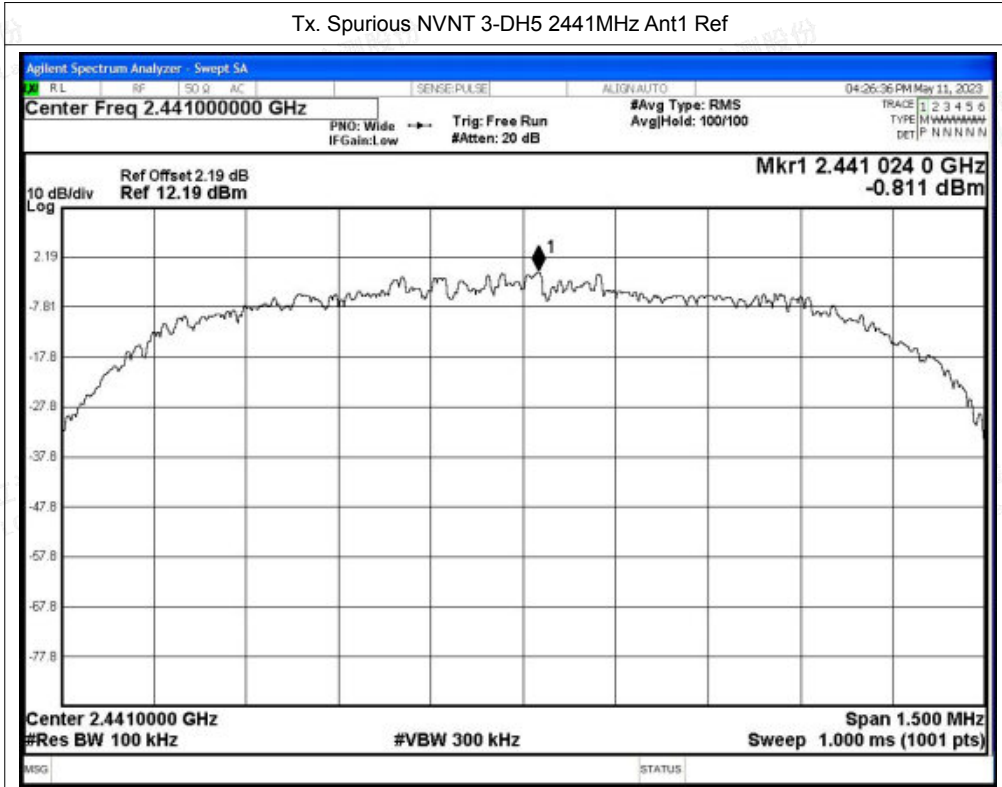


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

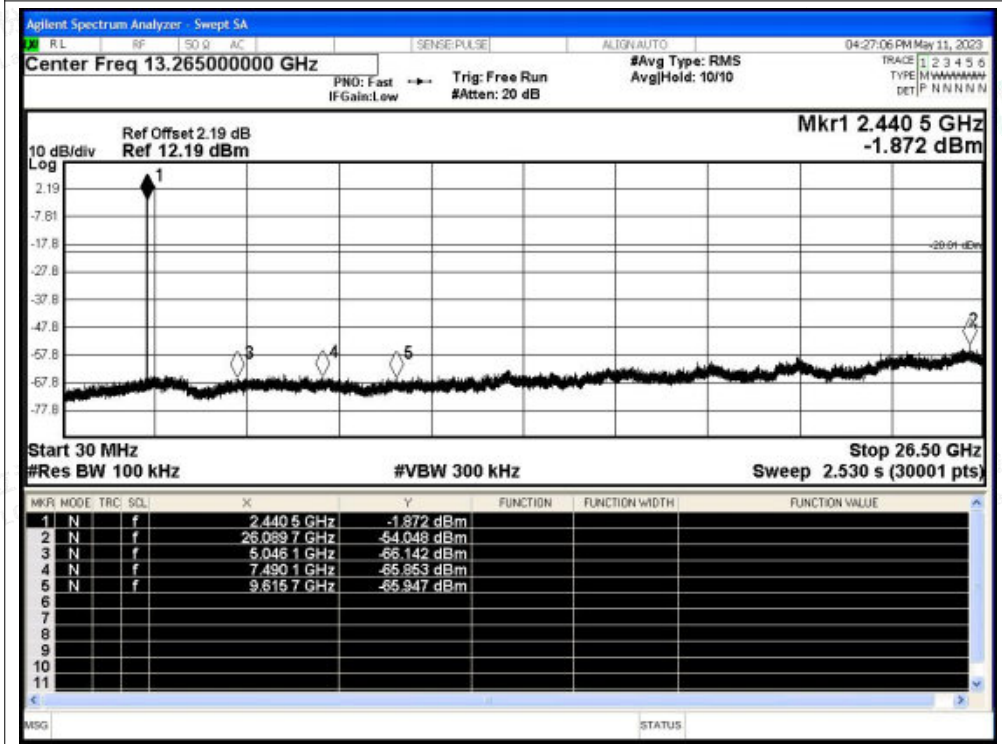




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

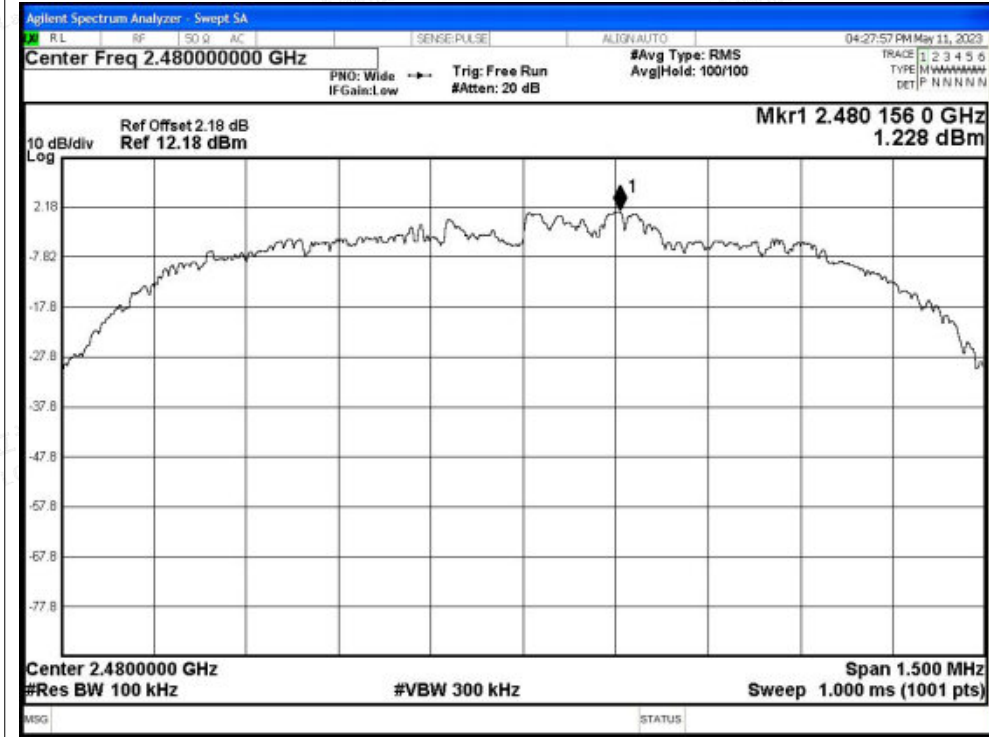


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

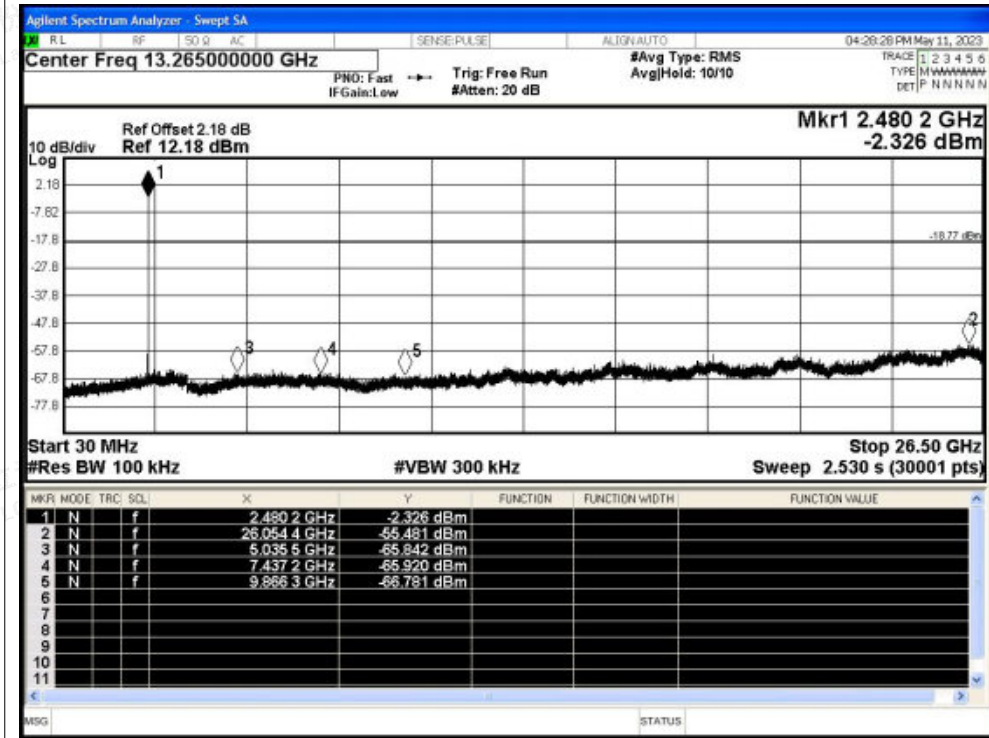




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

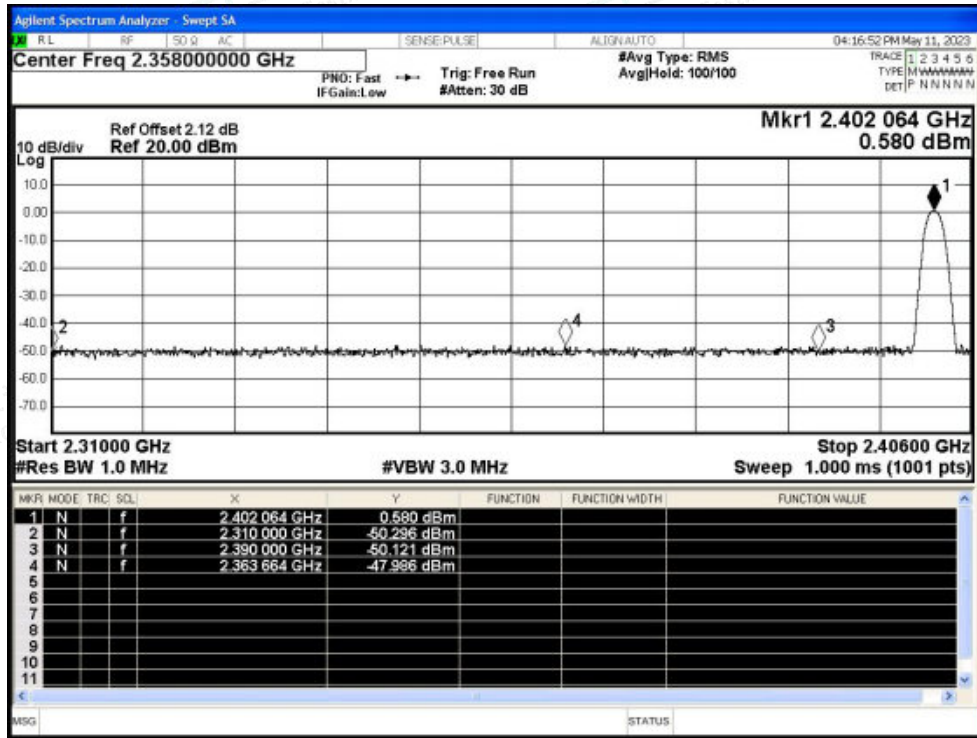
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.3	2	46.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.92	2	39.34	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2363.664	-47.99	2	49.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.864	-57.41	2	39.85	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.12	2	47.14	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.62	2	39.64	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.91	2	46.35	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.07	2	42.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.648	-46.71	2	50.55	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.07	2	42.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.2	2	48.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.3	2	39.96	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.17	2	45.09	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.08	2	39.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2328.624	-47.71	2	49.55	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.016	-57.46	2	39.8	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.27	2	47.99	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.68	2	39.58	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.22	2	47.04	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.98	2	42.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2492.872	-46.15	2	51.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-54.98	2	42.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.92	2	46.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.32	2	39.94	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.32	2	46.94	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.1	2	39.16	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2376.336	-46.93	2	50.33	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.28	-57.44	2	39.82	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.12	2	47.14	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.6	2	39.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	2	46.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.24	2	42.02	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.68	-47.7	2	49.56	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.24	2	42.02	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.22	2	48.04	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass



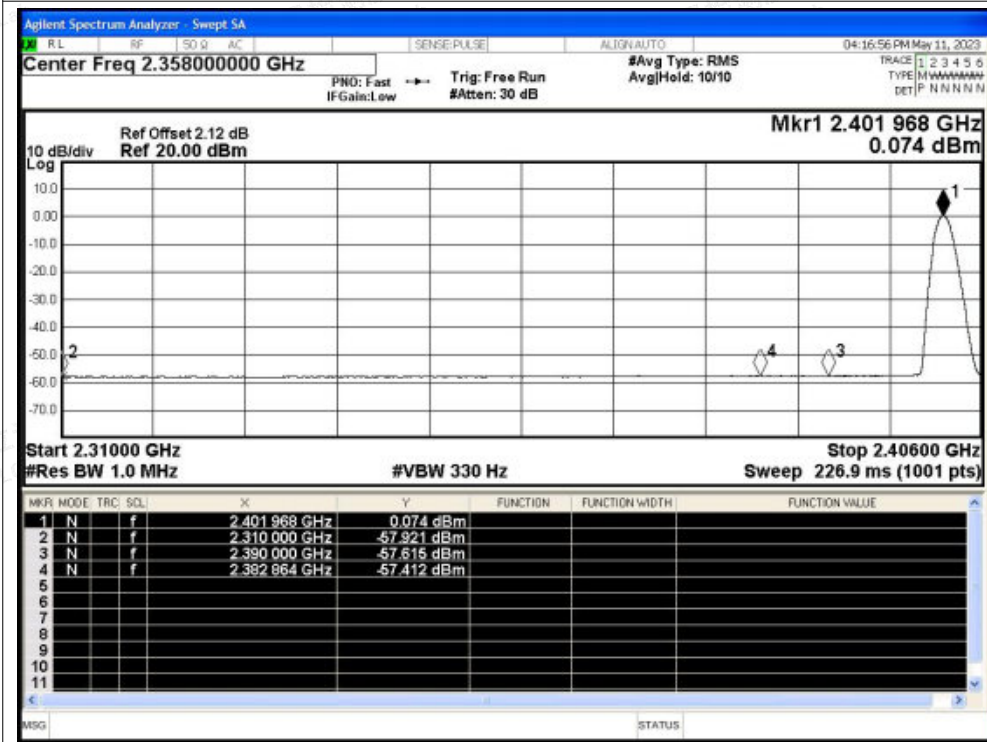


Test Graphs

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

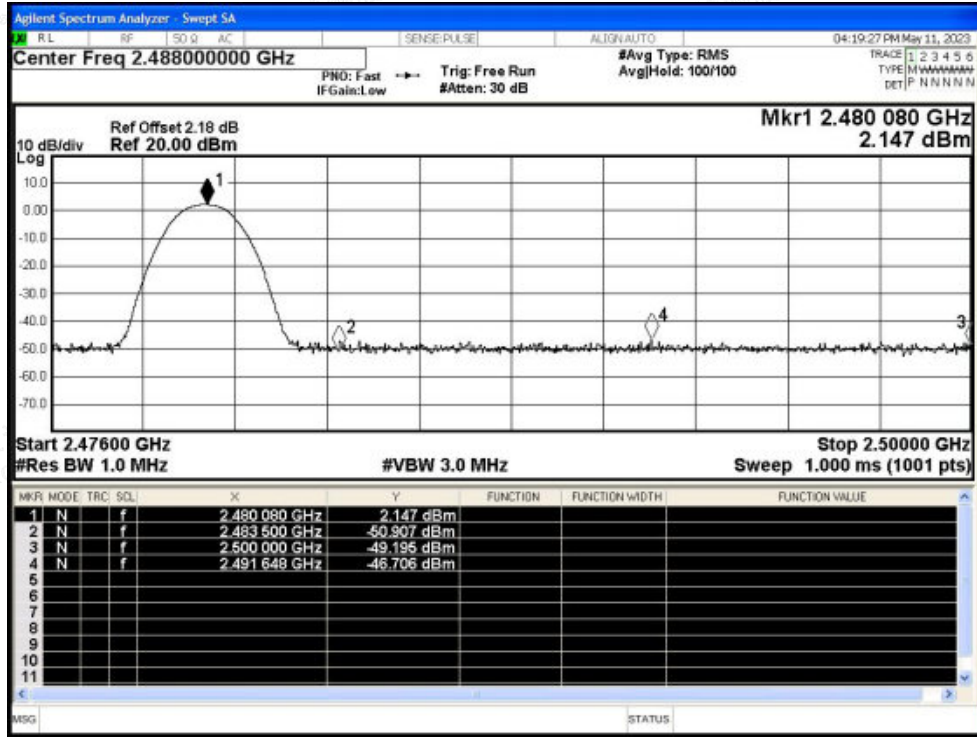


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

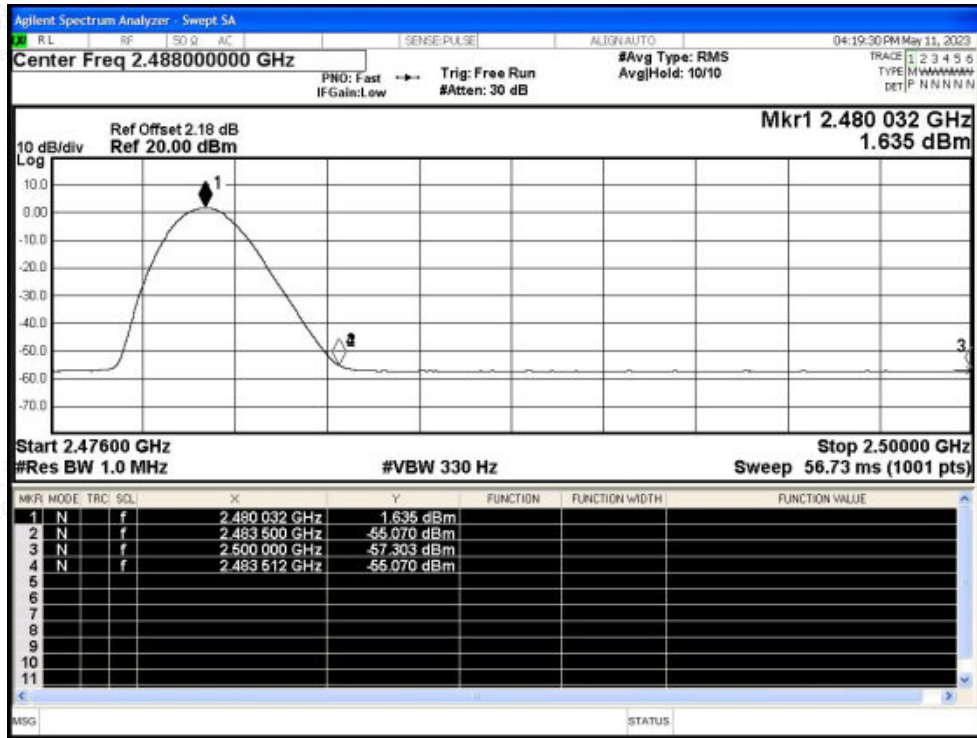




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

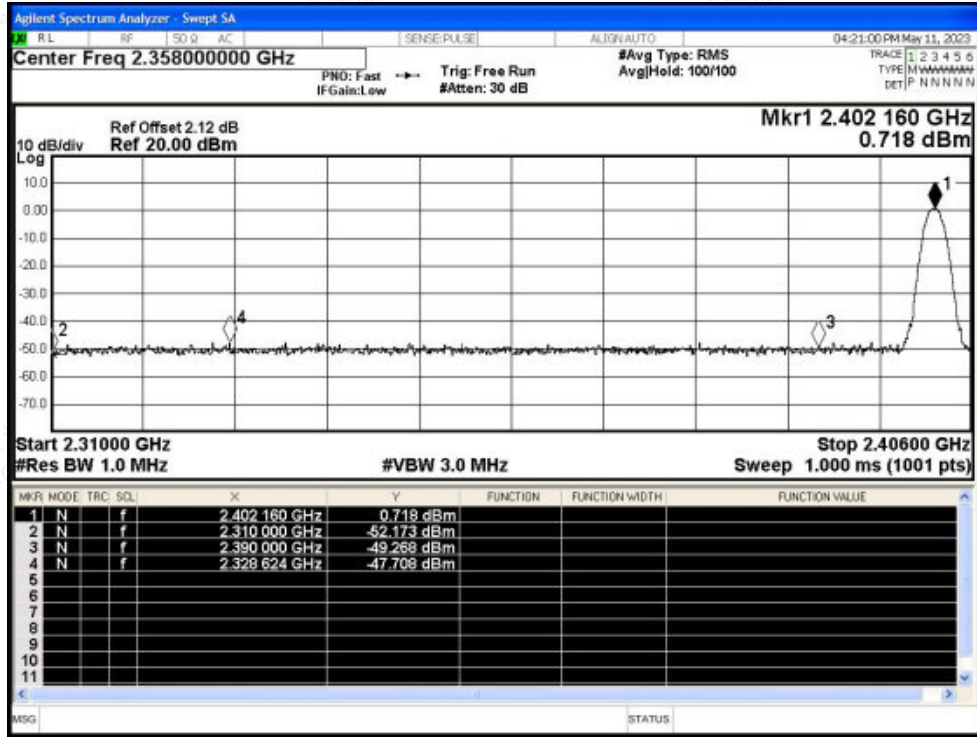


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

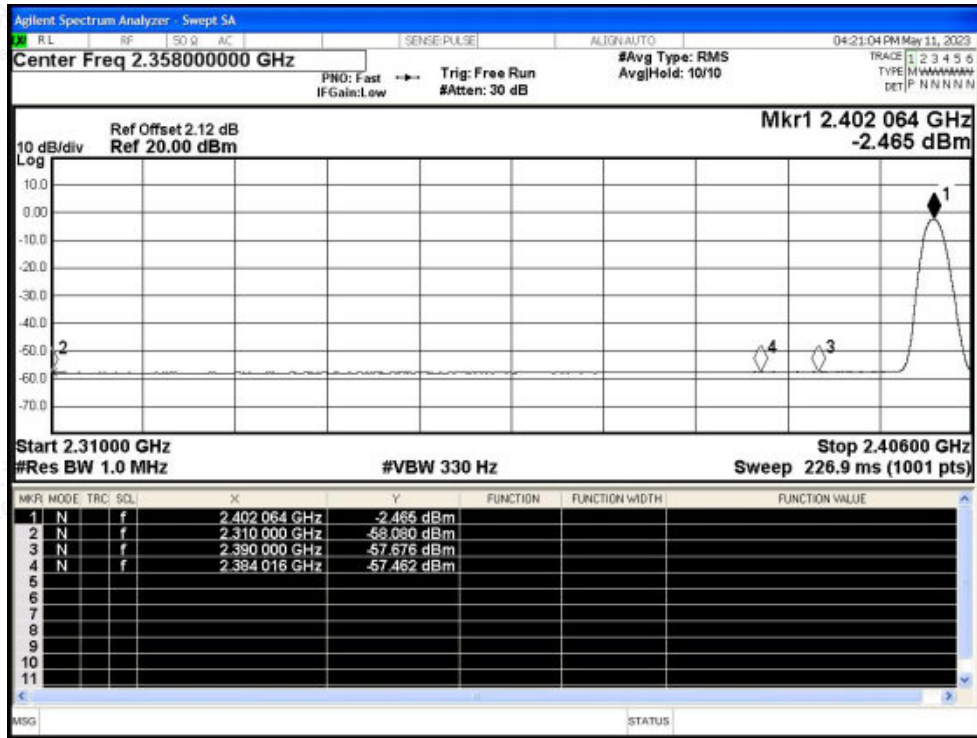




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

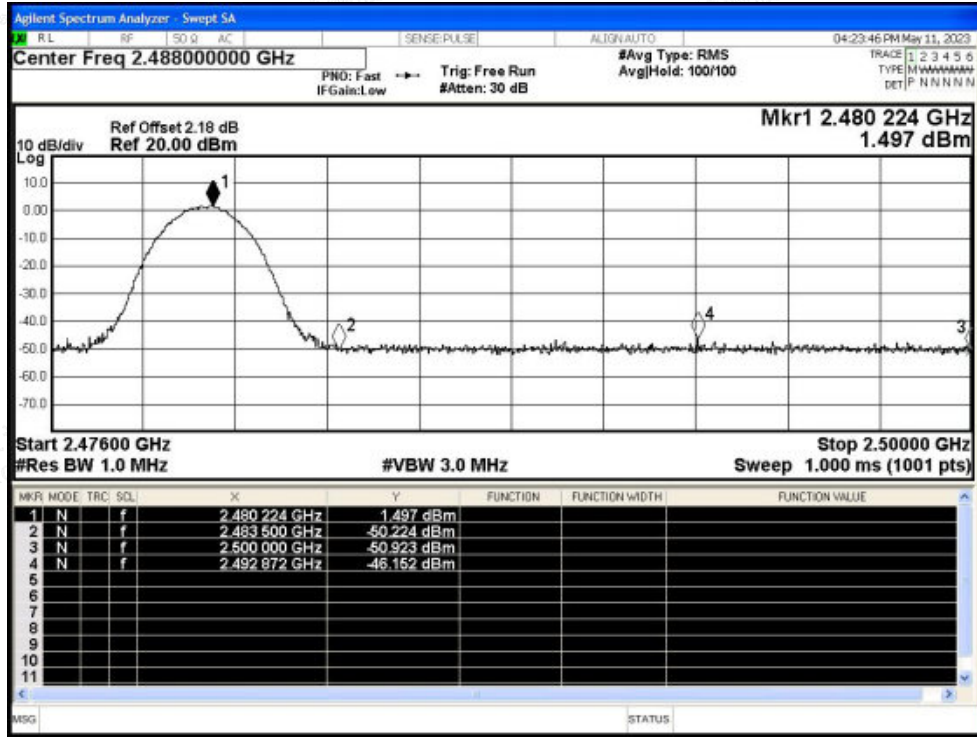


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

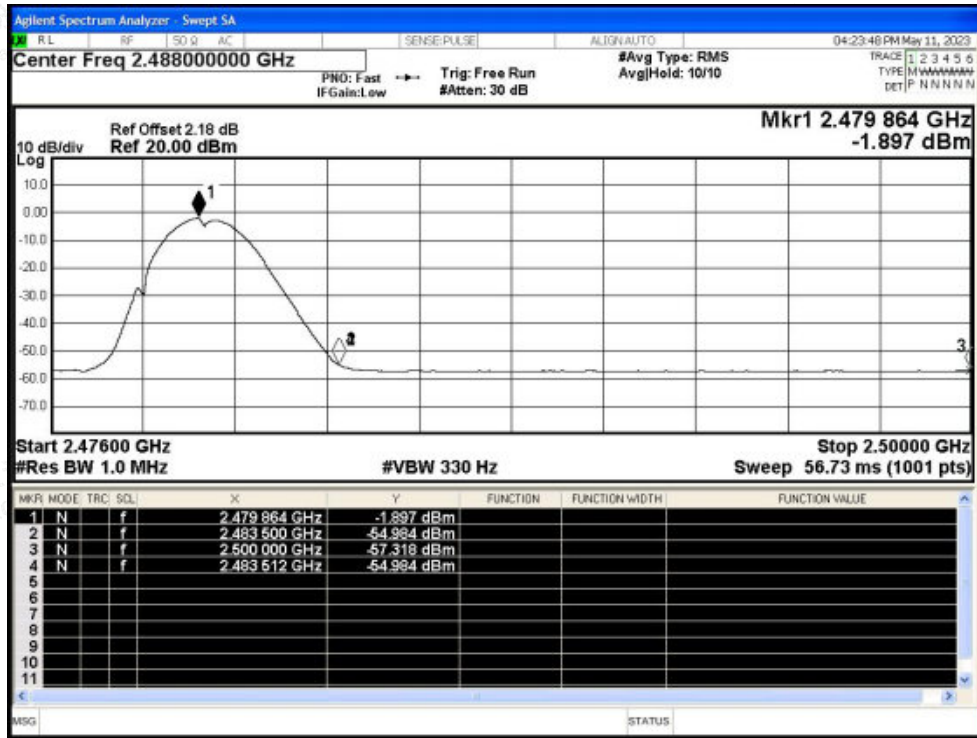




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

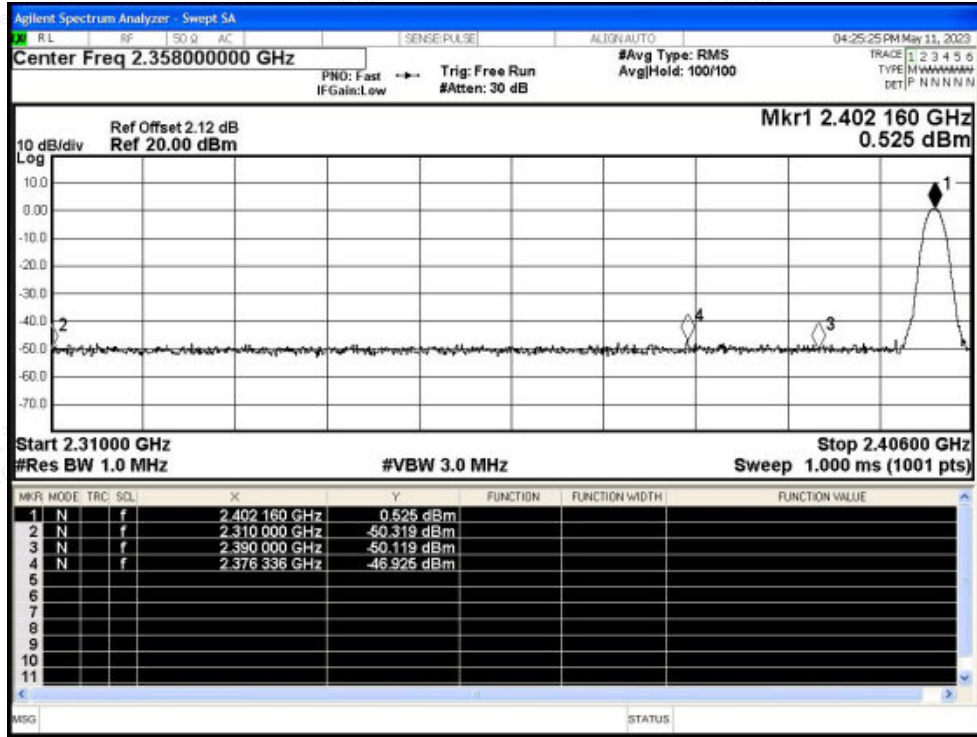


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

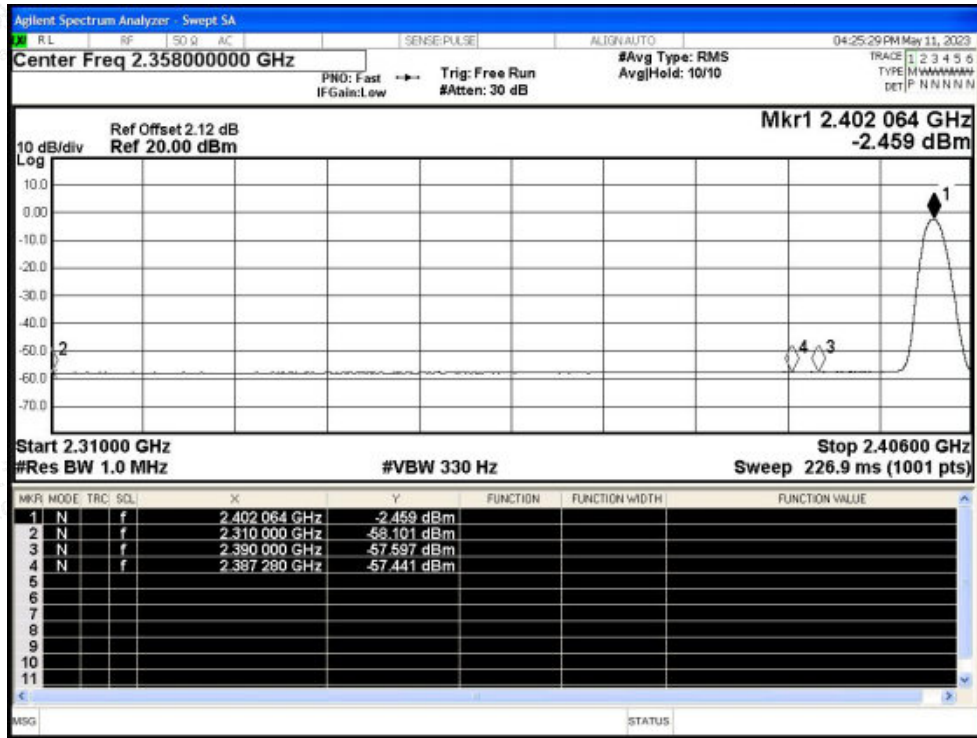




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

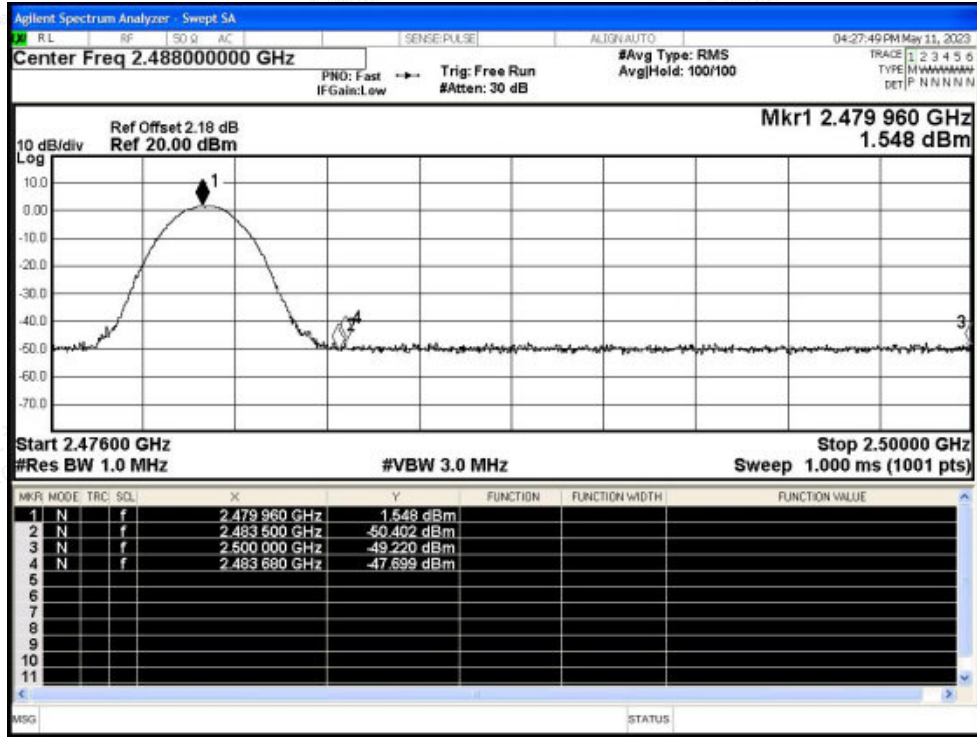


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

