



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SEI700CCOAS

Test Model: SN8BKFF

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

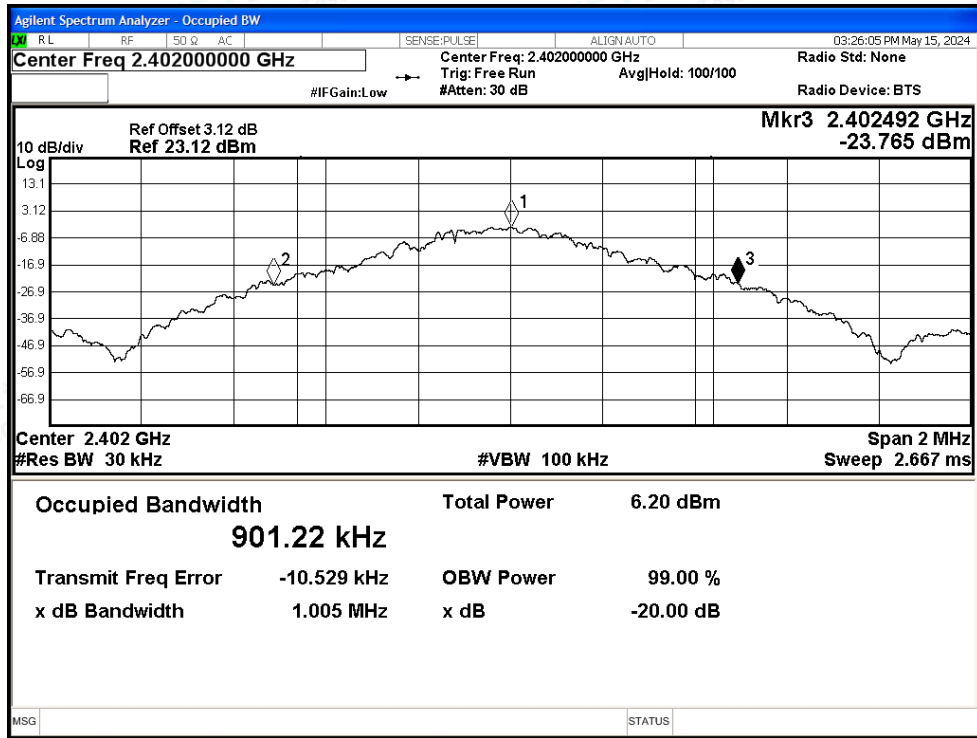
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant2	1.005	N/A	Pass
NVNT	1-DH5	2441	Ant2	0.992	N/A	Pass
NVNT	1-DH5	2480	Ant2	1.02	N/A	Pass
NVNT	2-DH5	2402	Ant2	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant2	1.316	N/A	Pass
NVNT	2-DH5	2480	Ant2	1.318	N/A	Pass
NVNT	3-DH5	2402	Ant2	1.304	N/A	Pass
NVNT	3-DH5	2441	Ant2	1.298	N/A	Pass
NVNT	3-DH5	2480	Ant2	1.303	N/A	Pass



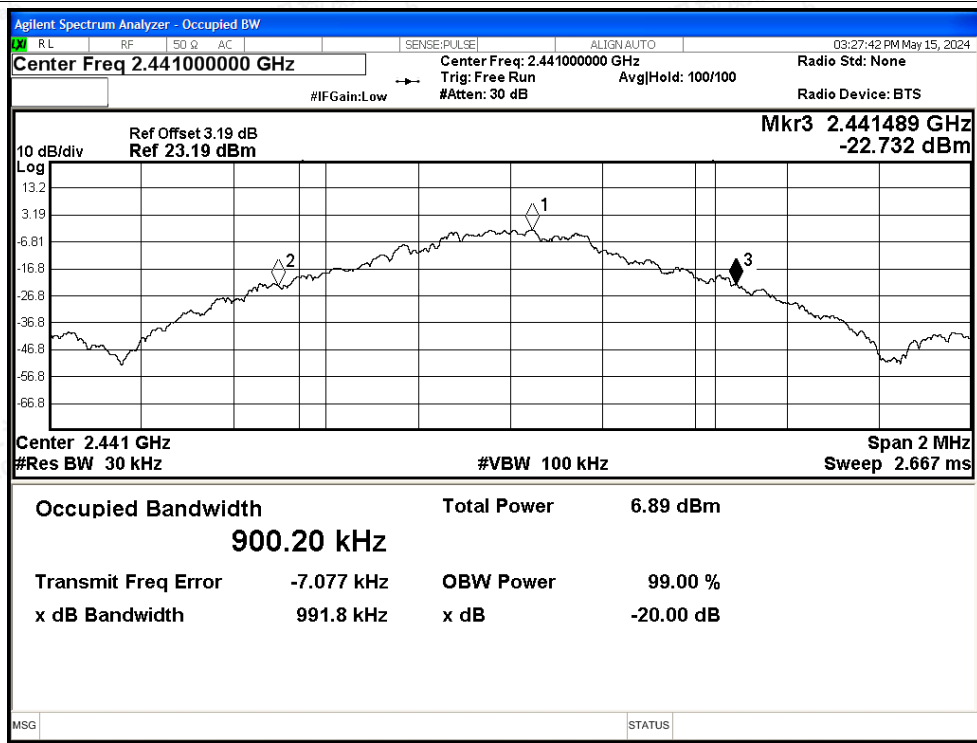


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant2

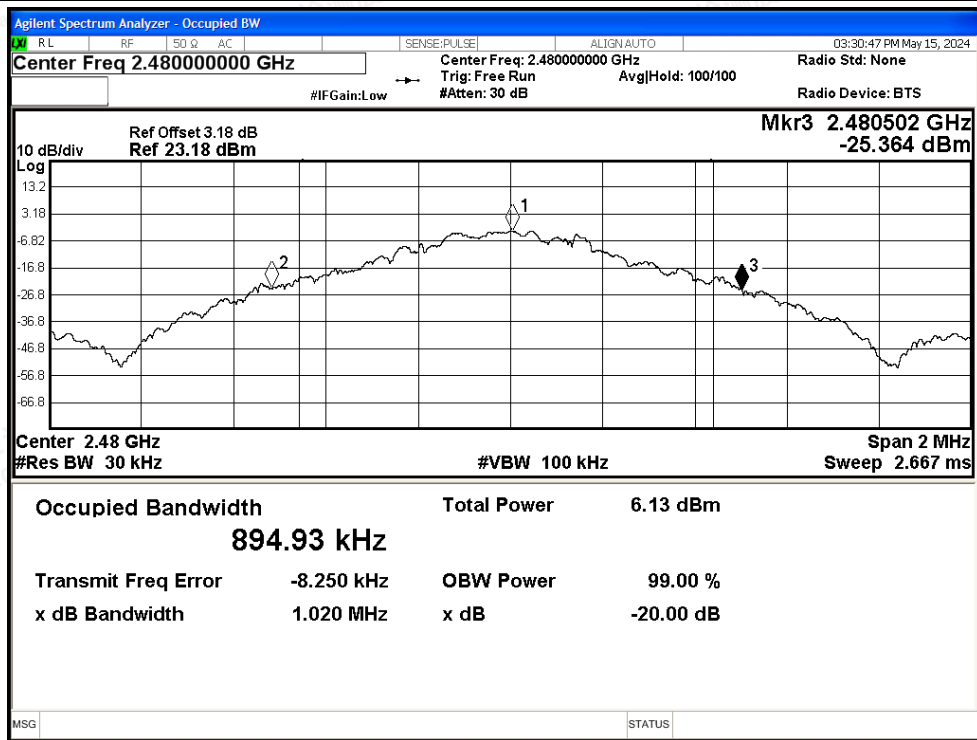


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant2

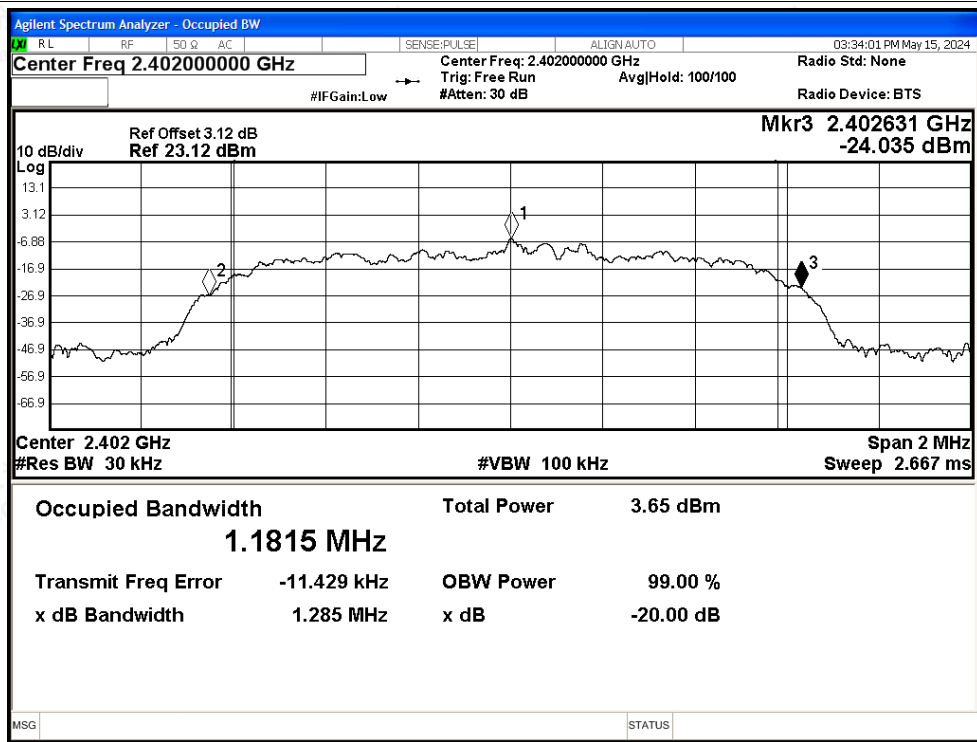




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant2

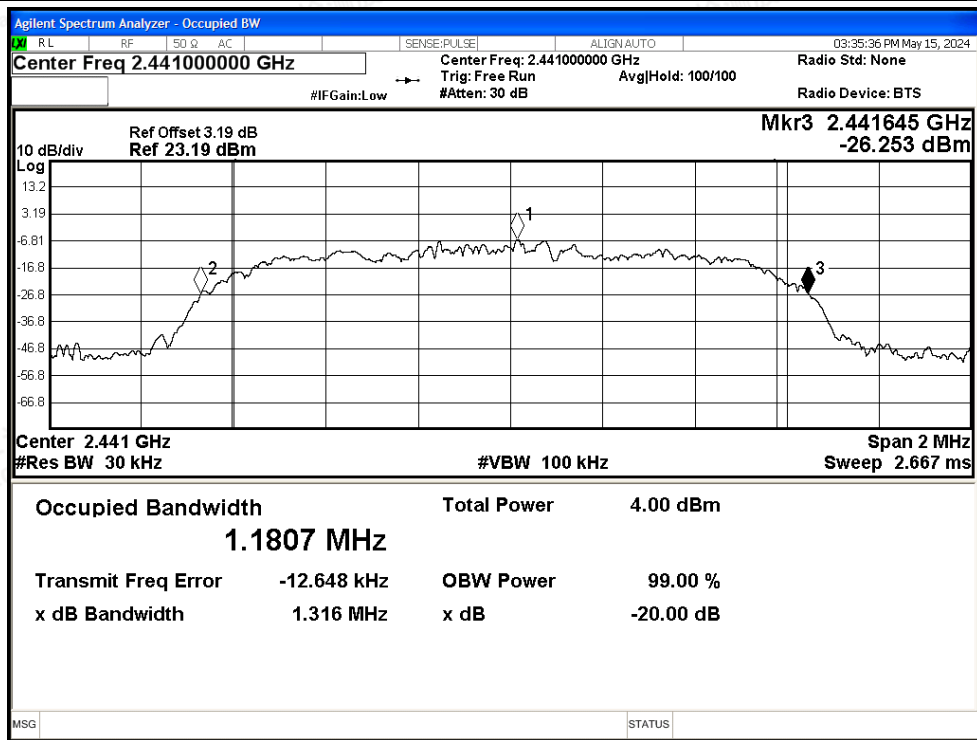


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant2

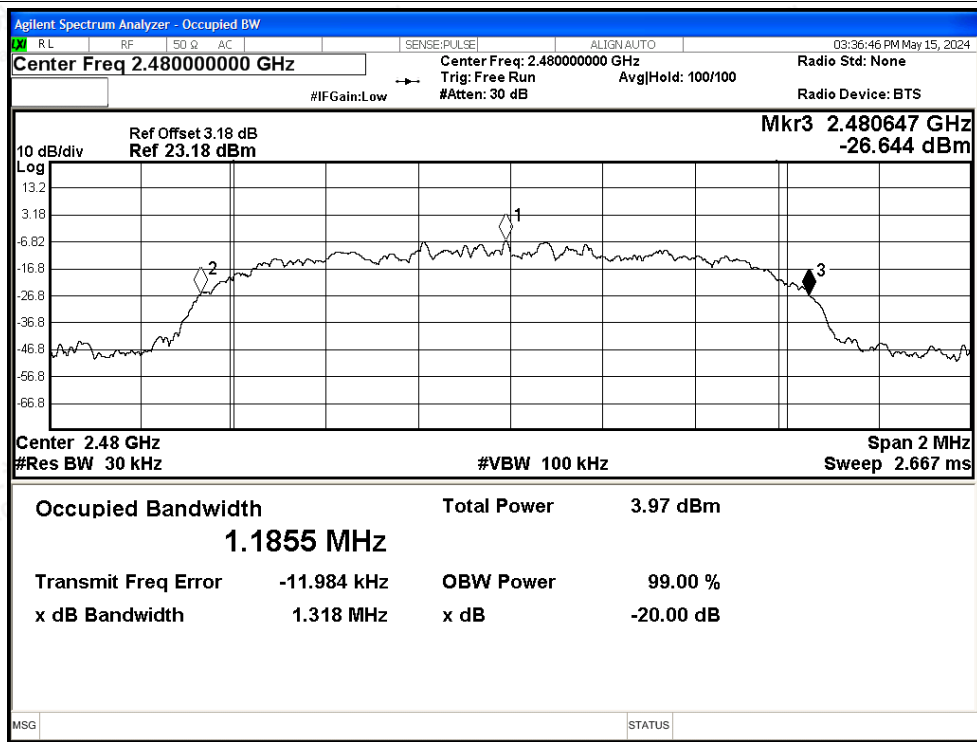




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant2

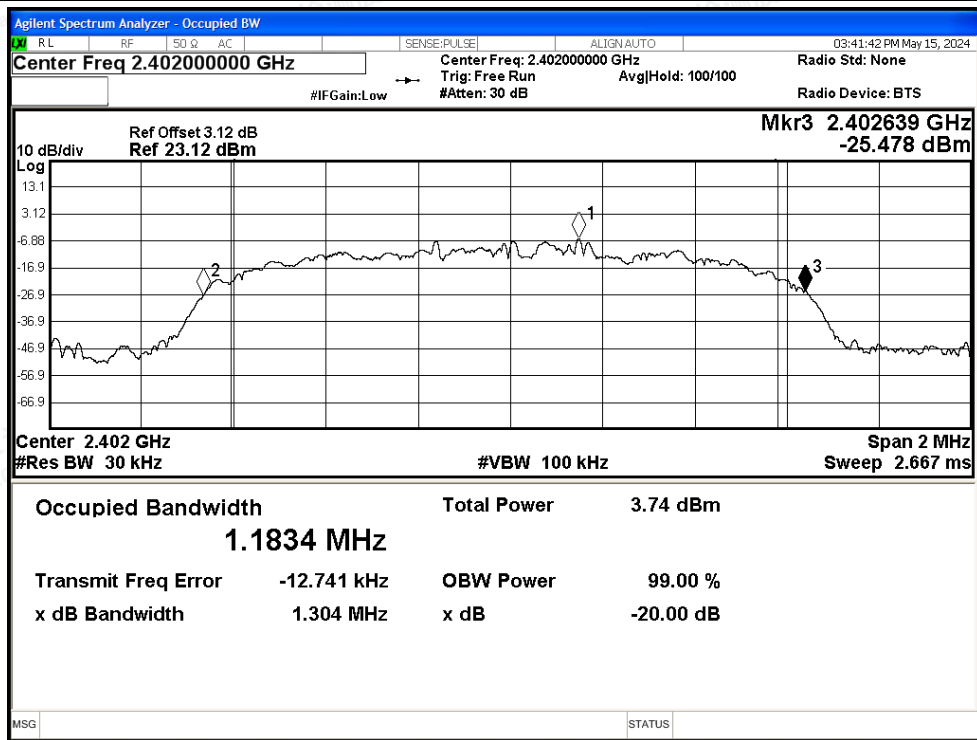


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant2

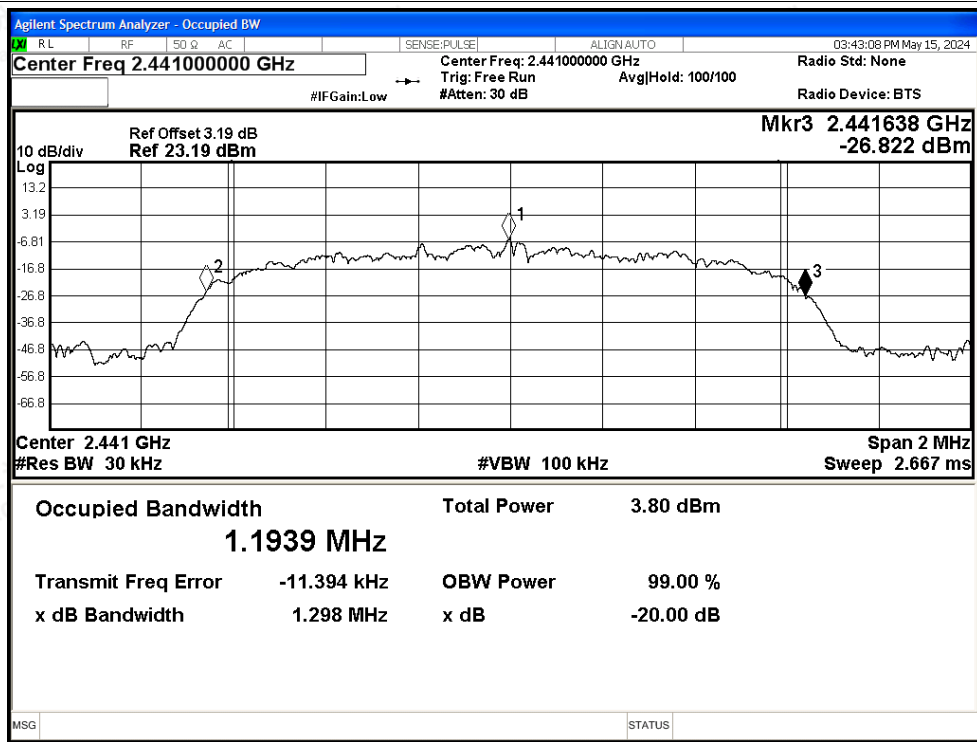


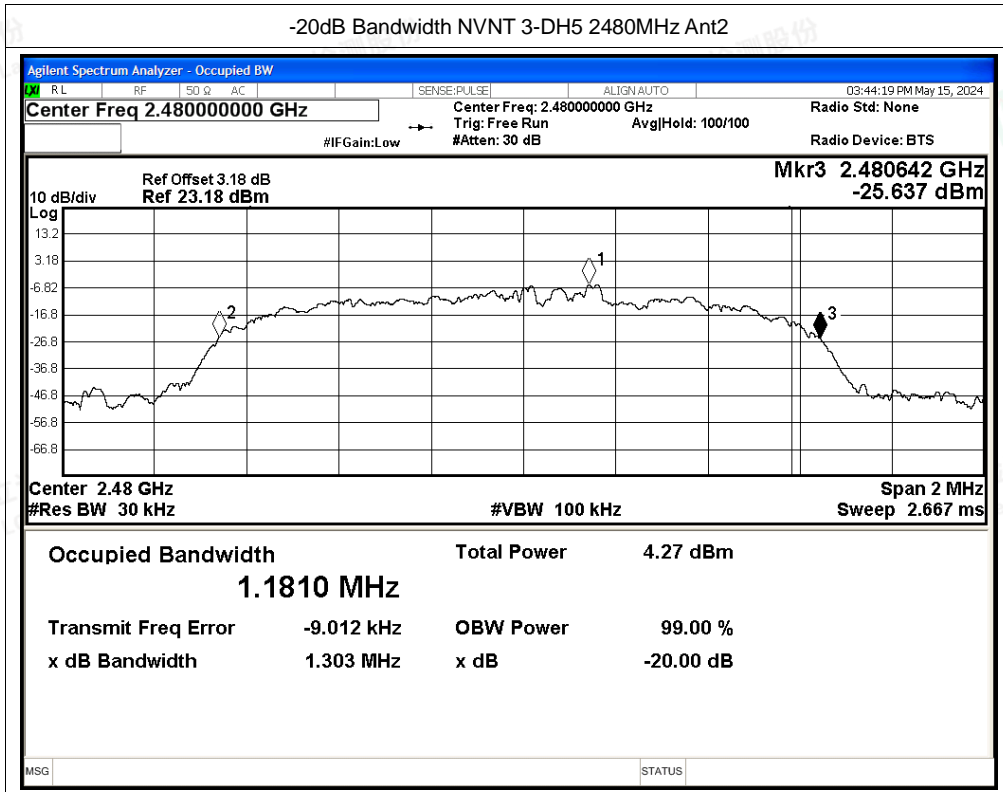


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant2



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant2







A.2 Maximum Peak Conducted Output Power

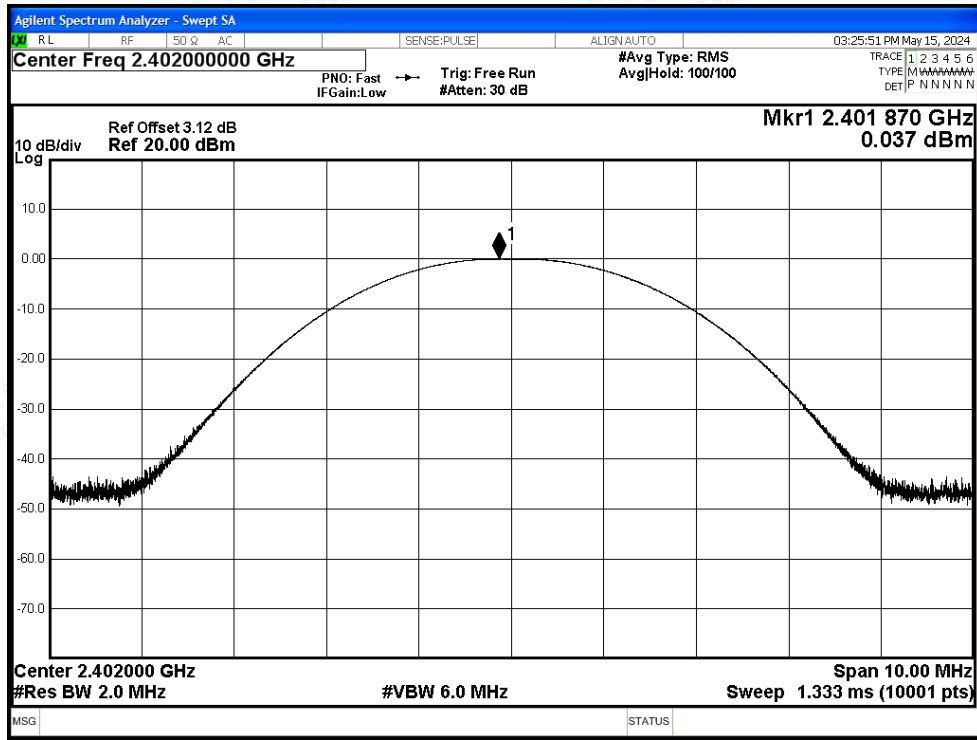
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant2	0.04	21	Pass
NVNT	1-DH5	2441	Ant2	0.69	21	Pass
NVNT	1-DH5	2480	Ant2	-0.24	21	Pass
NVNT	2-DH5	2402	Ant2	-0.83	21	Pass
NVNT	2-DH5	2441	Ant2	-0.38	21	Pass
NVNT	2-DH5	2480	Ant2	-0.37	21	Pass
NVNT	3-DH5	2402	Ant2	-0.72	21	Pass
NVNT	3-DH5	2441	Ant2	-0.26	21	Pass
NVNT	3-DH5	2480	Ant2	-0.28	21	Pass



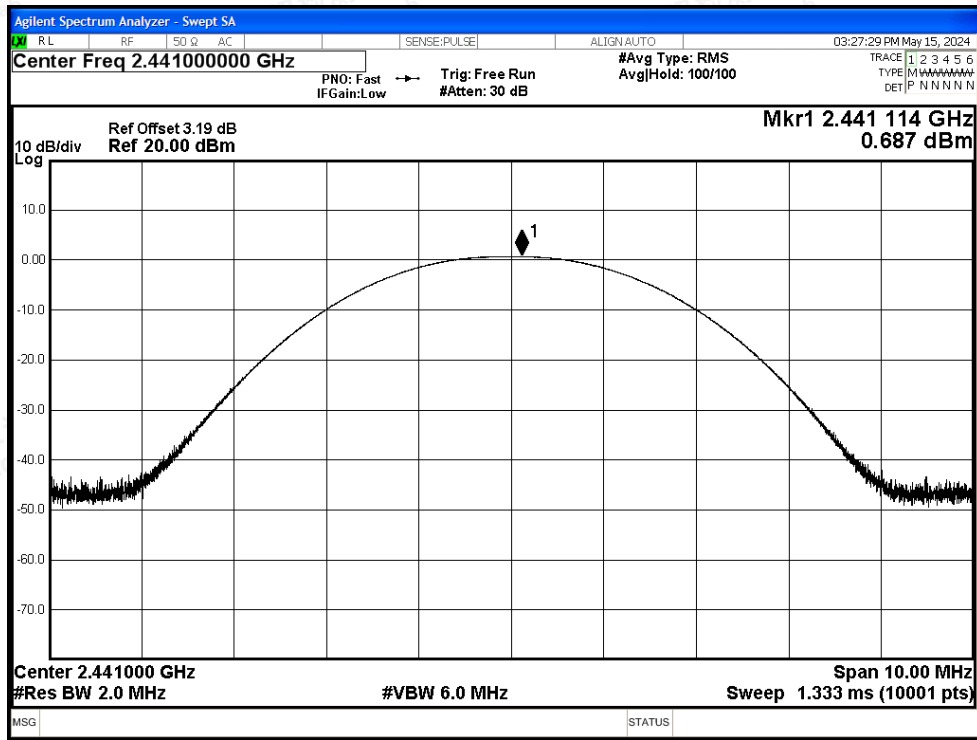


Test Graphs

Power NVNT 1-DH5 2402MHz Ant2

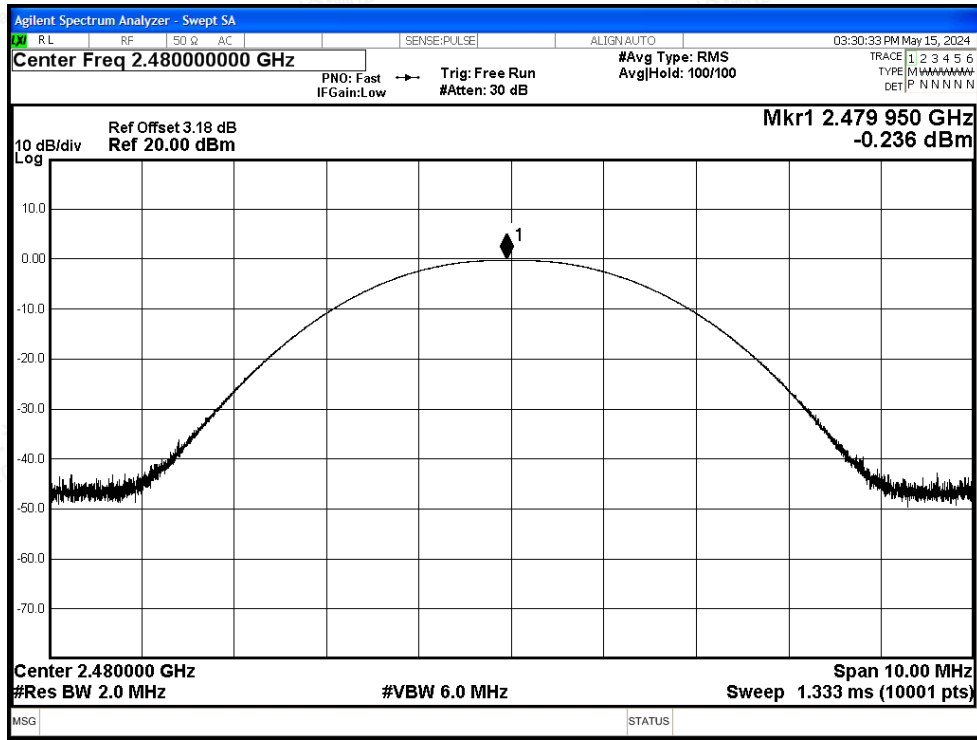


Power NVNT 1-DH5 2441MHz Ant2

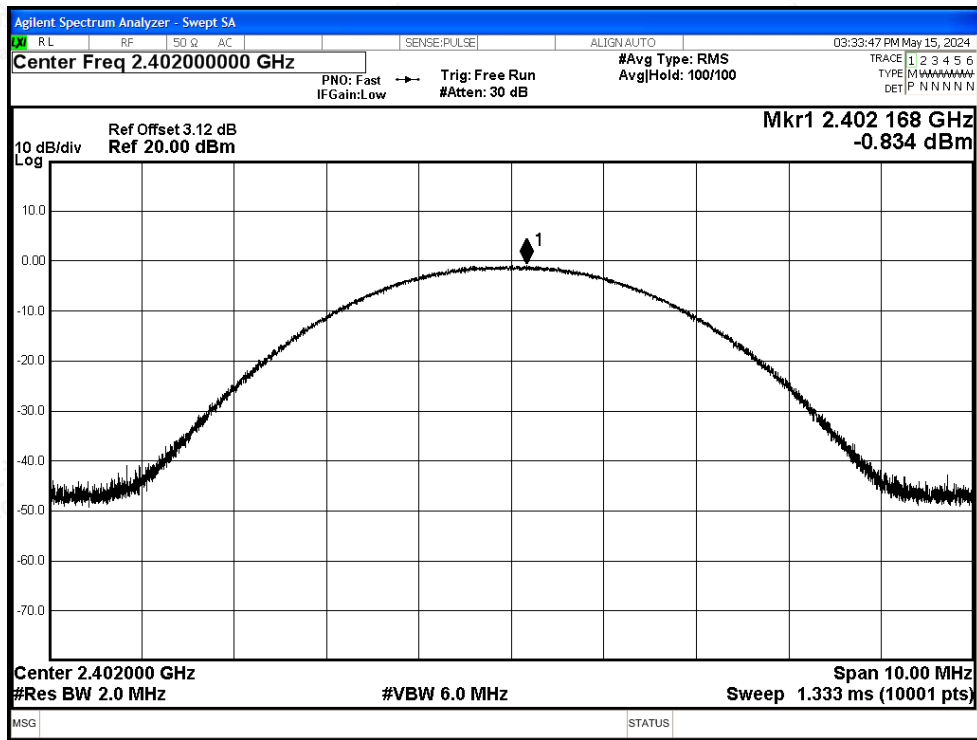




Power NVNT 1-DH5 2480MHz Ant2

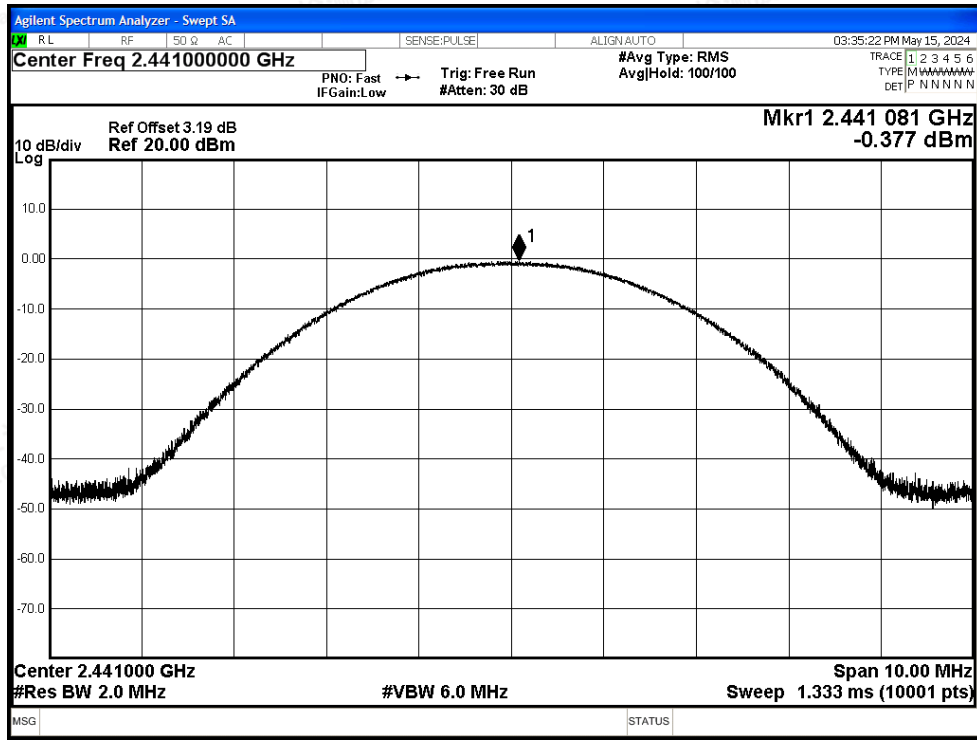


Power NVNT 2-DH5 2402MHz Ant2

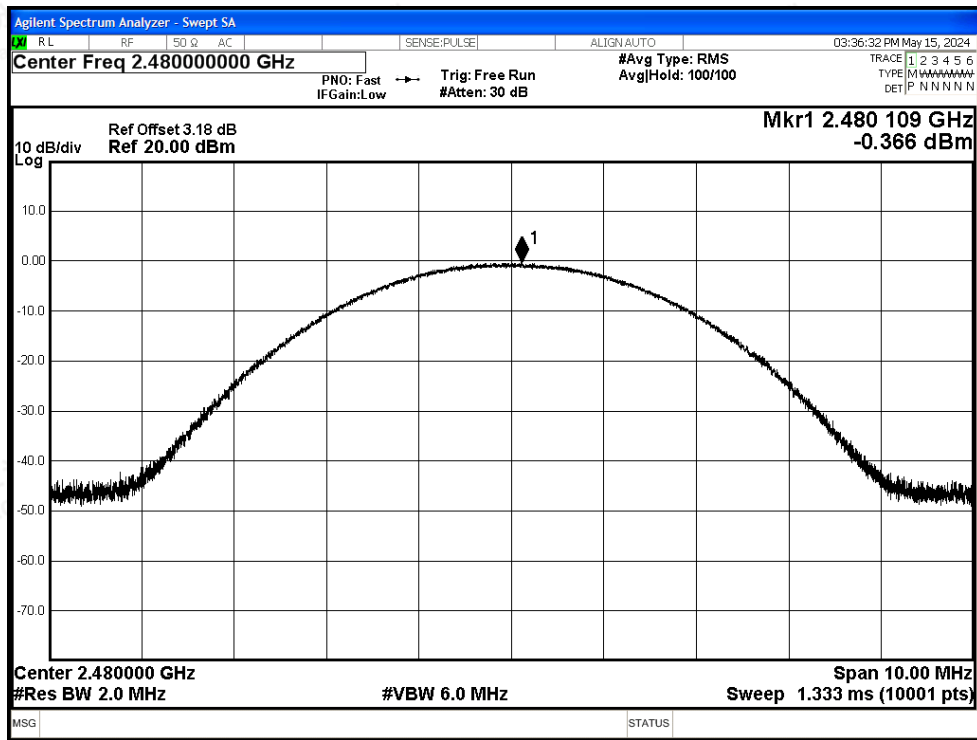




Power NVNT 2-DH5 2441MHz Ant2

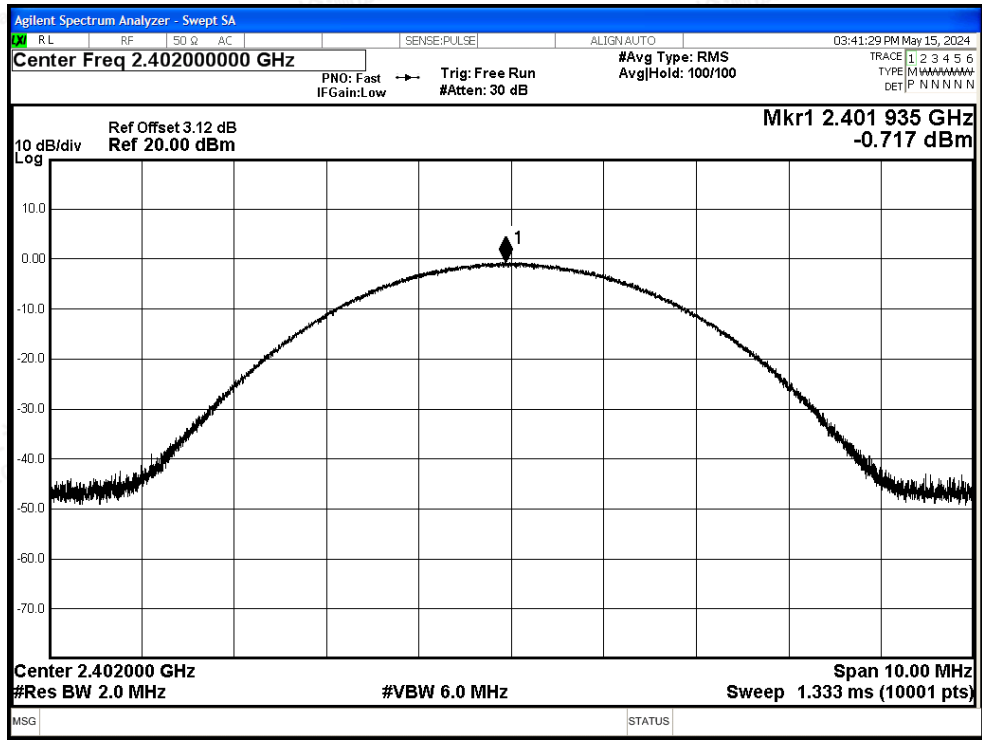


Power NVNT 2-DH5 2480MHz Ant2

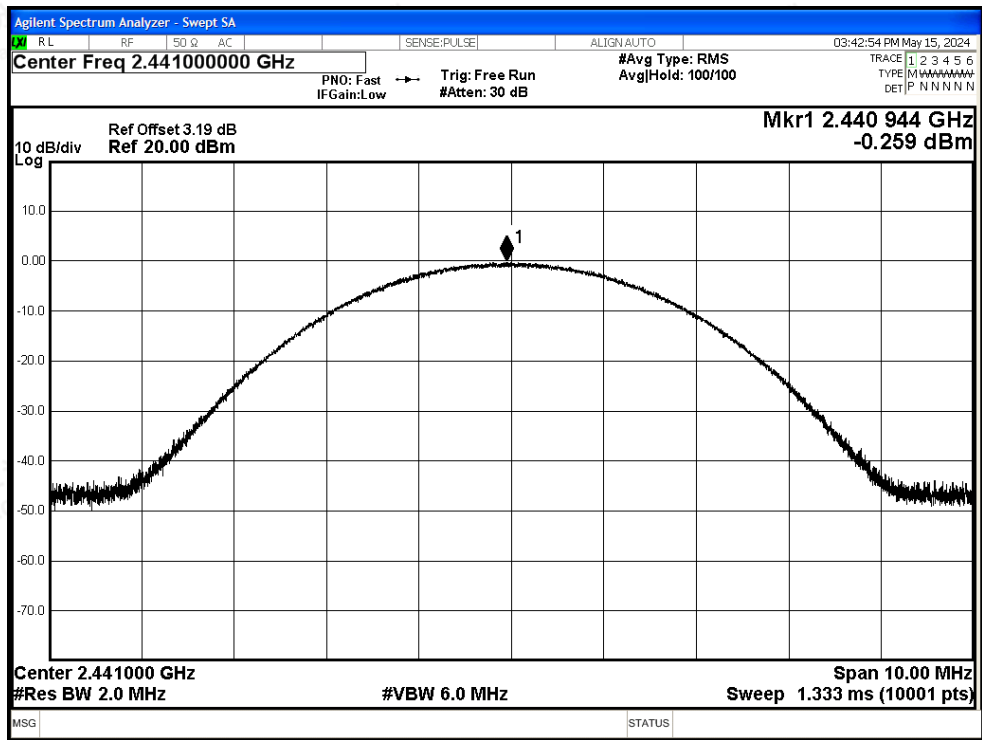


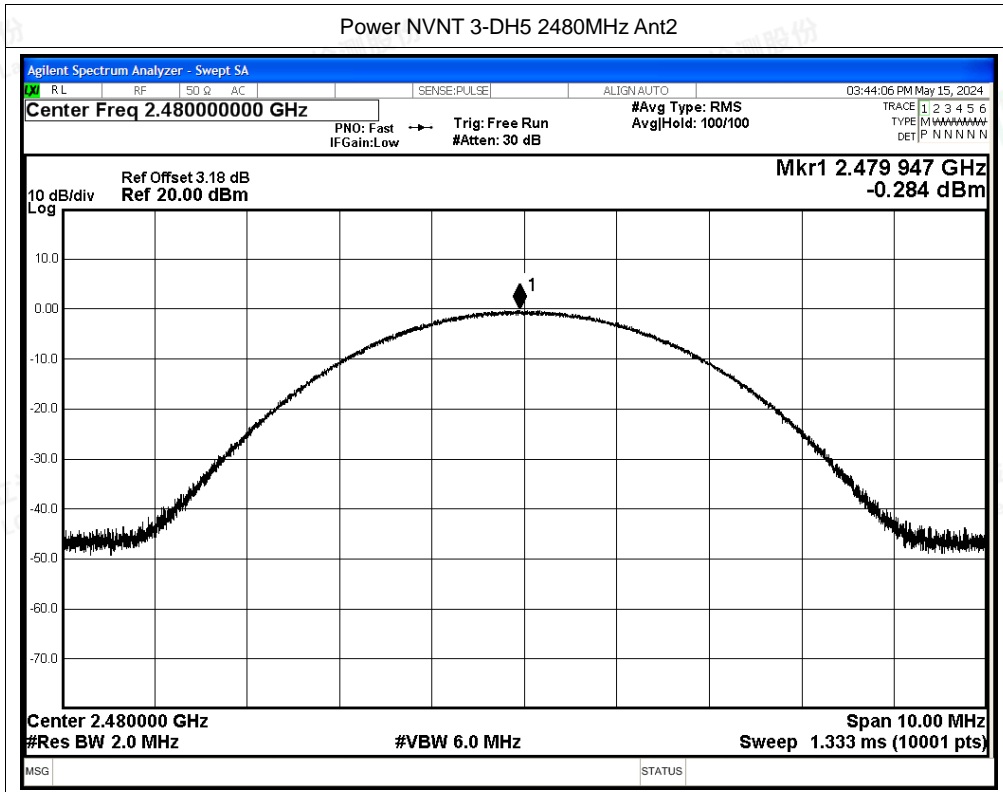


Power NVNT 3-DH5 2402MHz Ant2



Power NVNT 3-DH5 2441MHz Ant2







A.3 Carrier Frequencies Separation

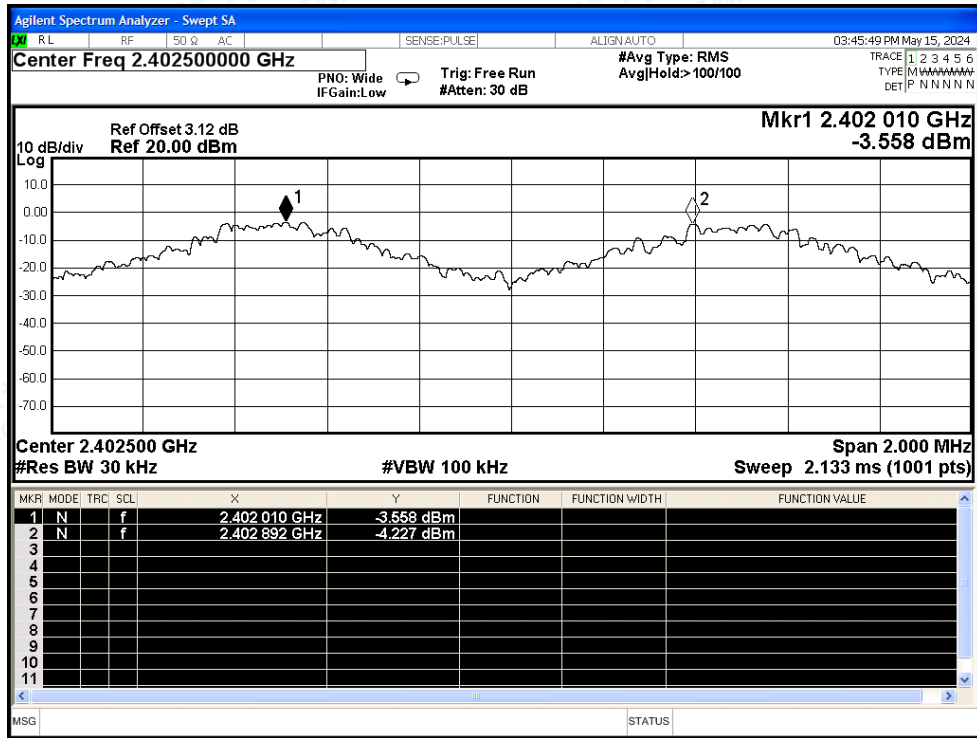
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant2	2402.01	2402.892	0.882	0.680	Pass
NVNT	2-DH5	Ant2	2402.146	2403.328	1.182	0.879	Pass
NVNT	3-DH5	Ant2	2402.12	2403.144	1.024	0.869	Pass



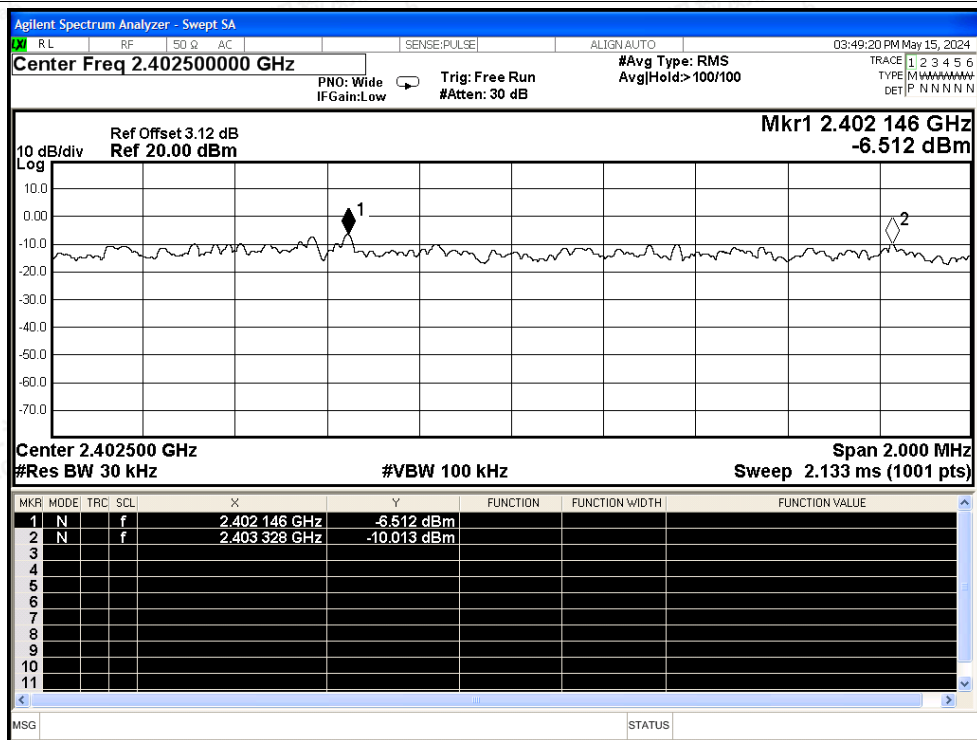


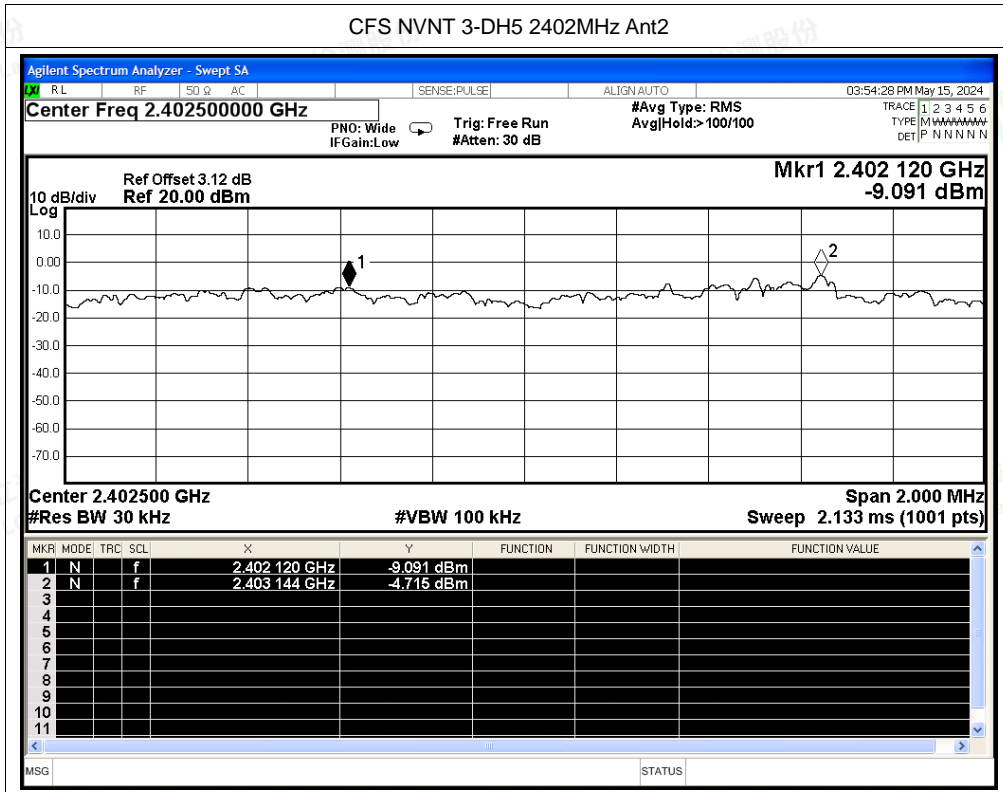
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant2



CFS NVNT 2-DH5 2402MHz Ant2







A.4 Dwell Time

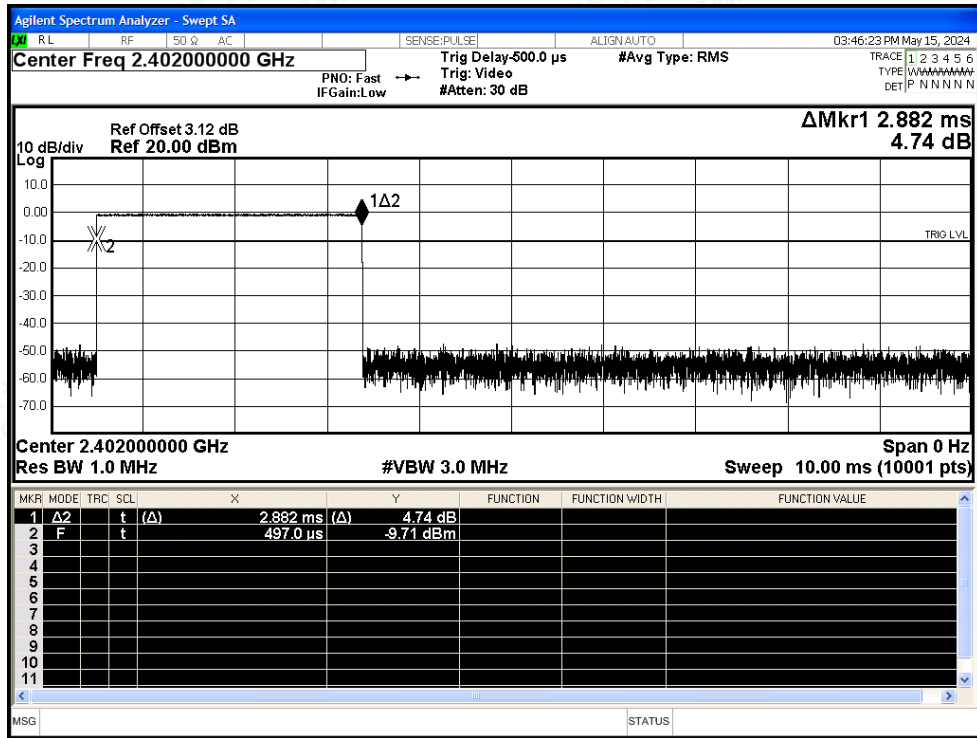
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant2	2.882	317.02	110	31600	400	Pass
NVNT	2-DH5	2402	Ant2	2.885	291.385	101	31600	400	Pass
NVNT	3-DH5	2402	Ant2	2.886	268.398	93	31600	400	Pass



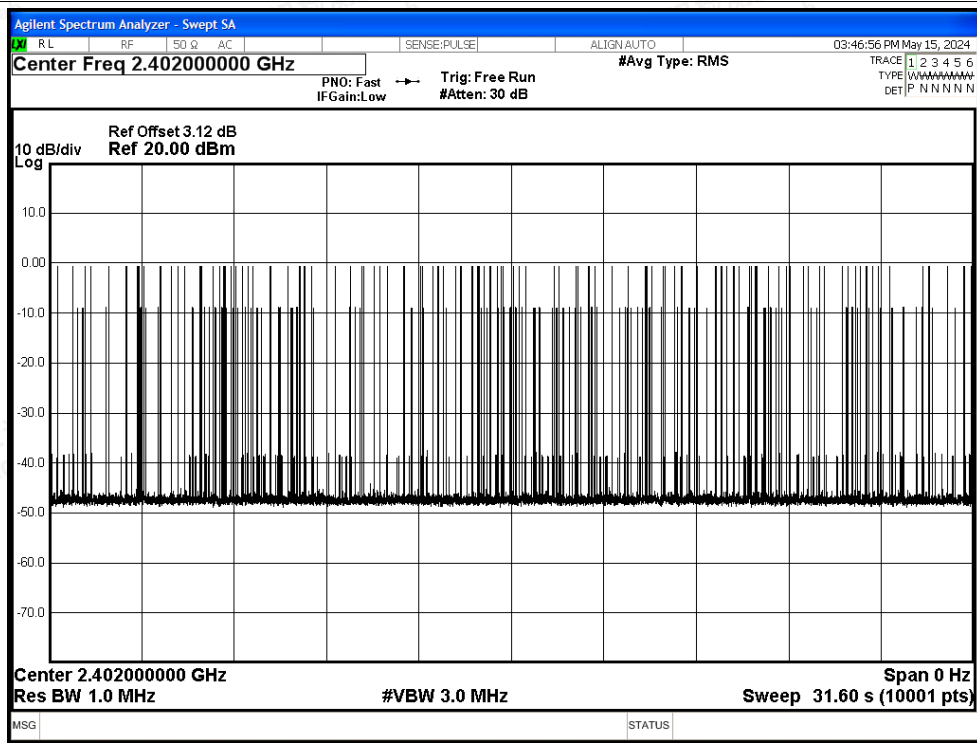


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant2 One Burst

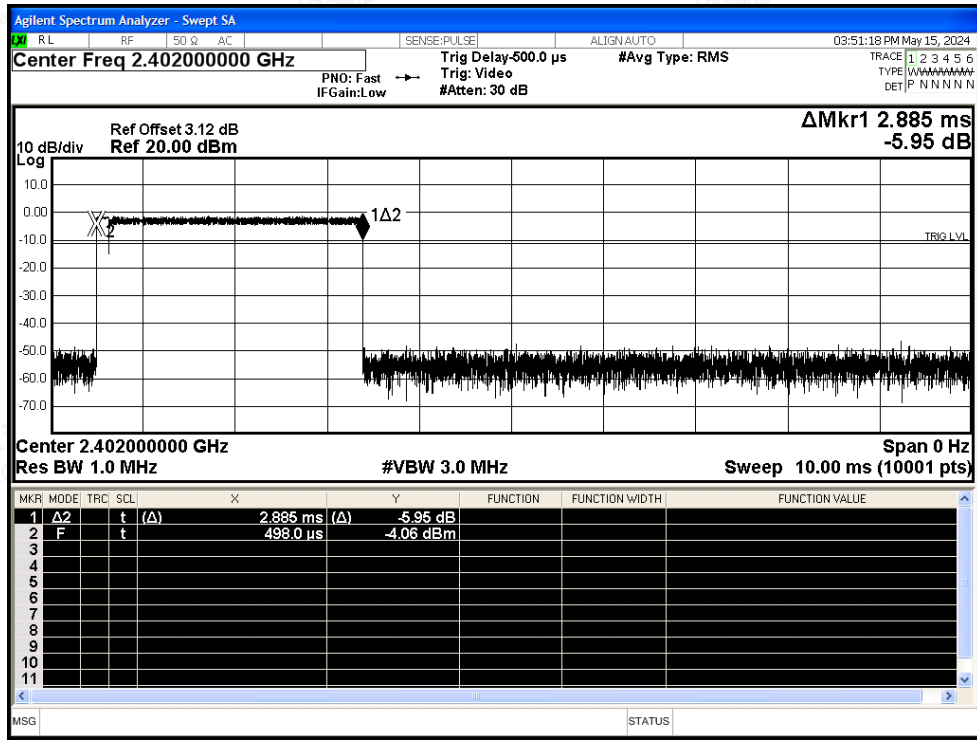


Dwell NVNT 1-DH5 2402MHz Ant2 Accumulated

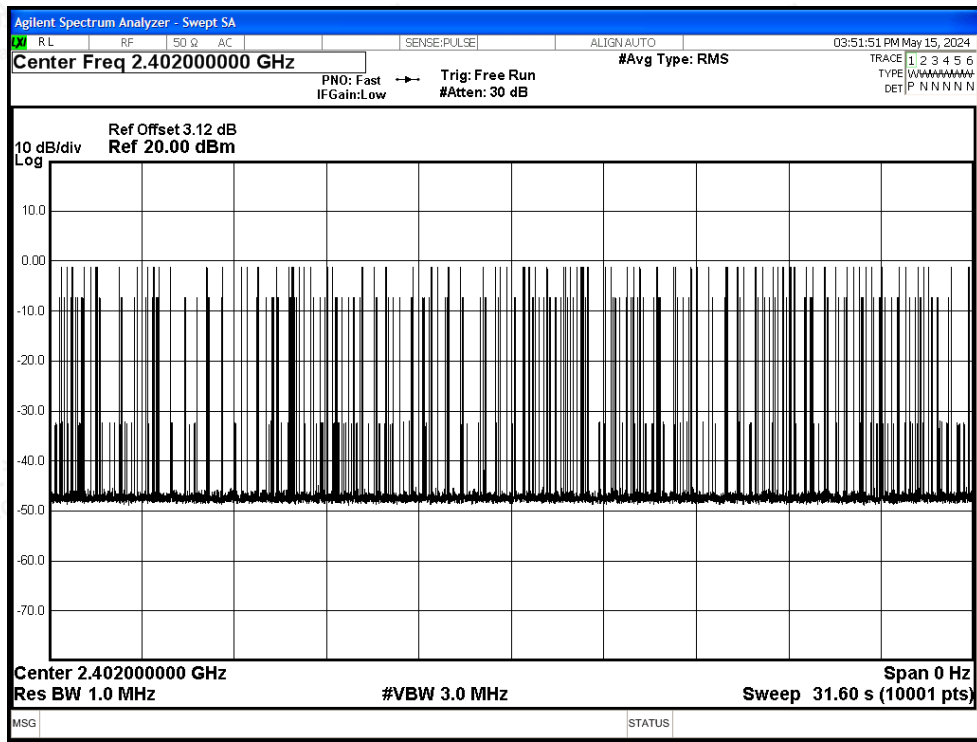




Dwell NVNT 2-DH5 2402MHz Ant2 One Burst

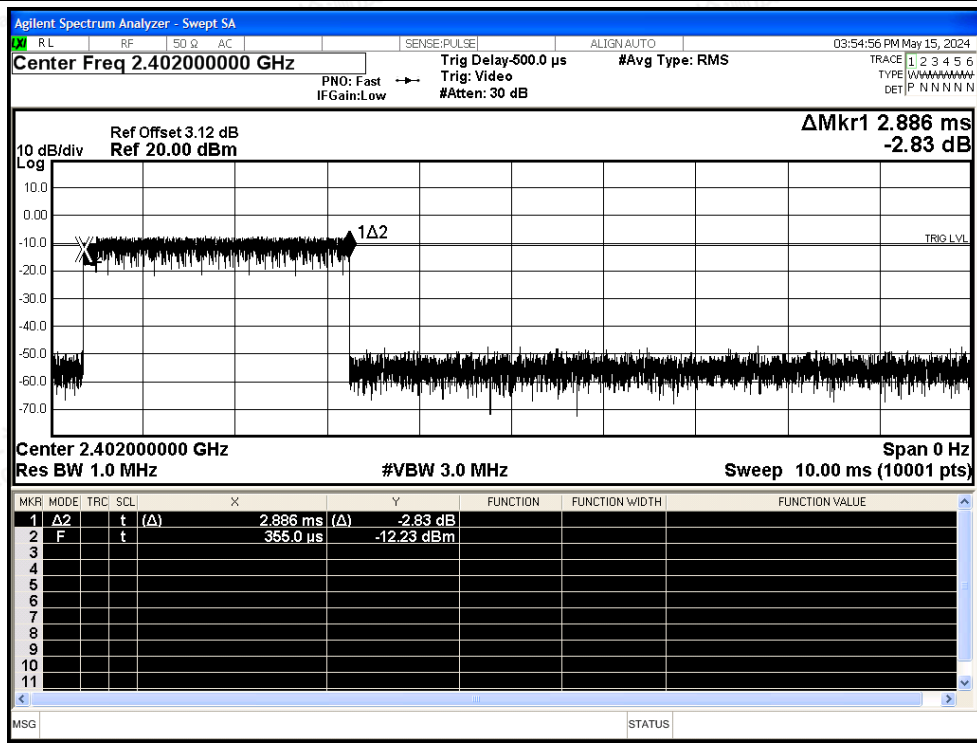


Dwell NVNT 2-DH5 2402MHz Ant2 Accumulated

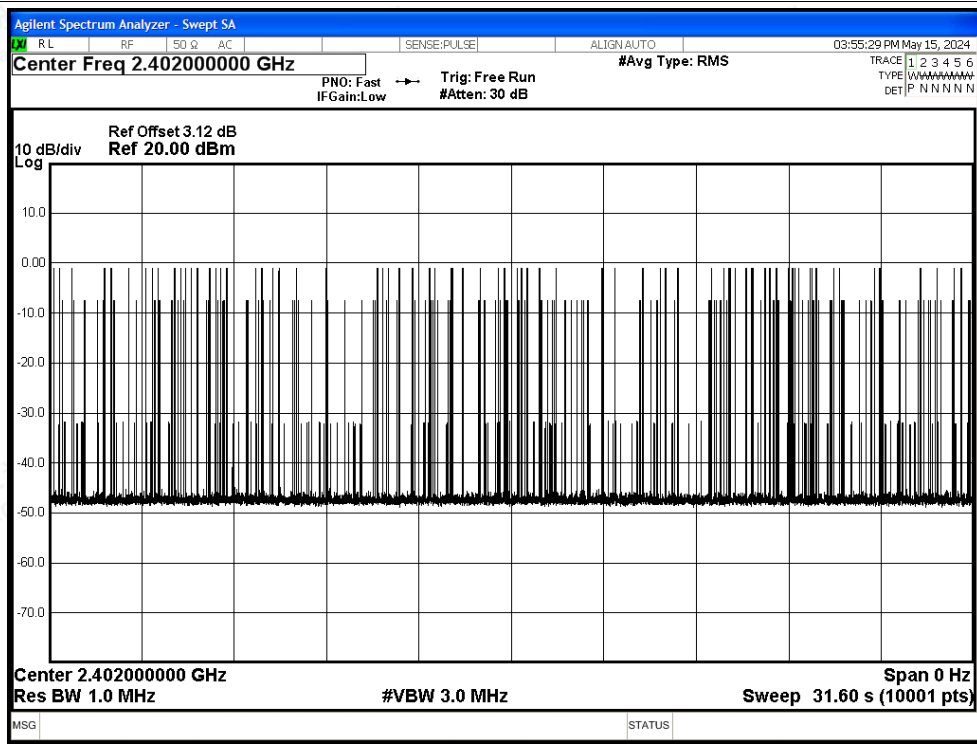




Dwell NVNT 3-DH5 2402MHz Ant2 One Burst



Dwell NVNT 3-DH5 2402MHz Ant2 Accumulated





A.5 Number of Hopping Channel

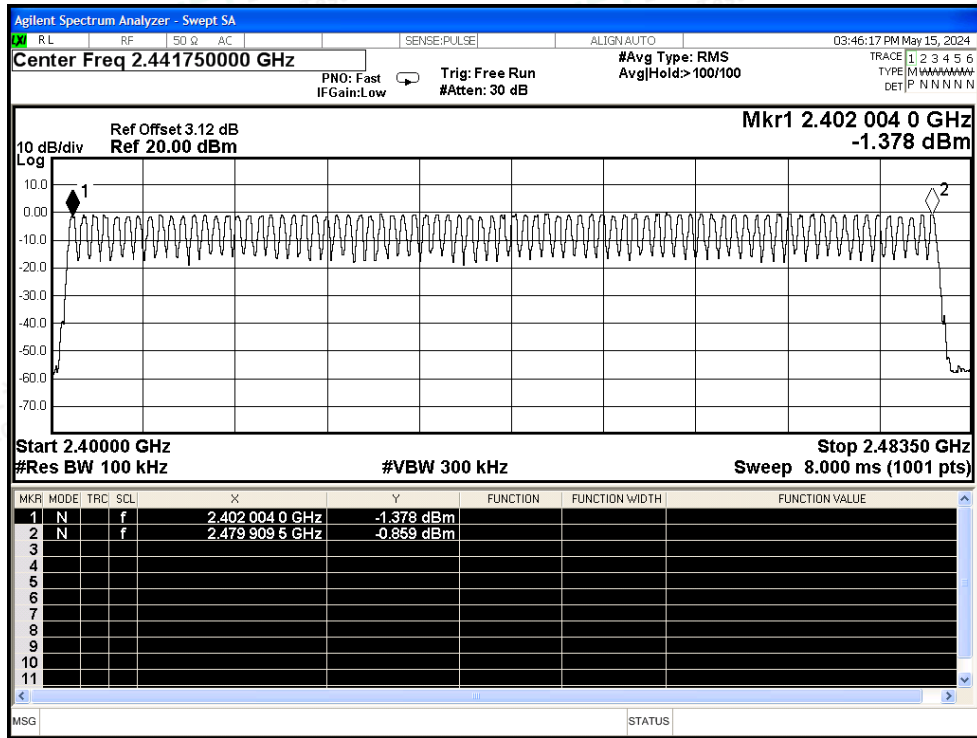
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant2	79	15	Pass
NVNT	2-DH5	Ant2	79	15	Pass
NVNT	3-DH5	Ant2	79	15	Pass



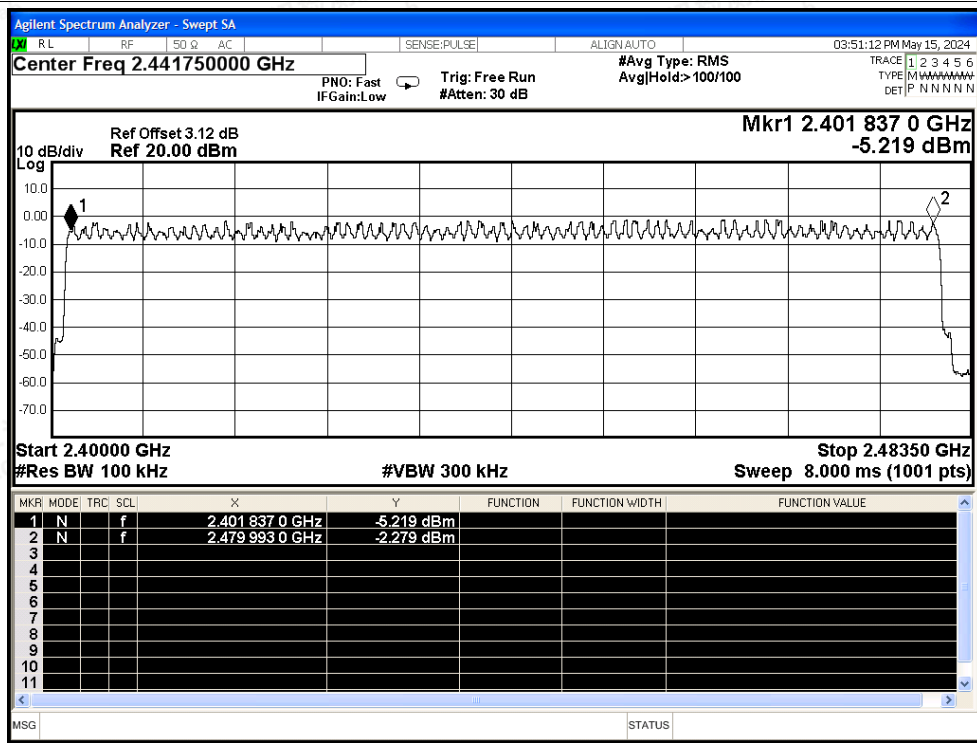


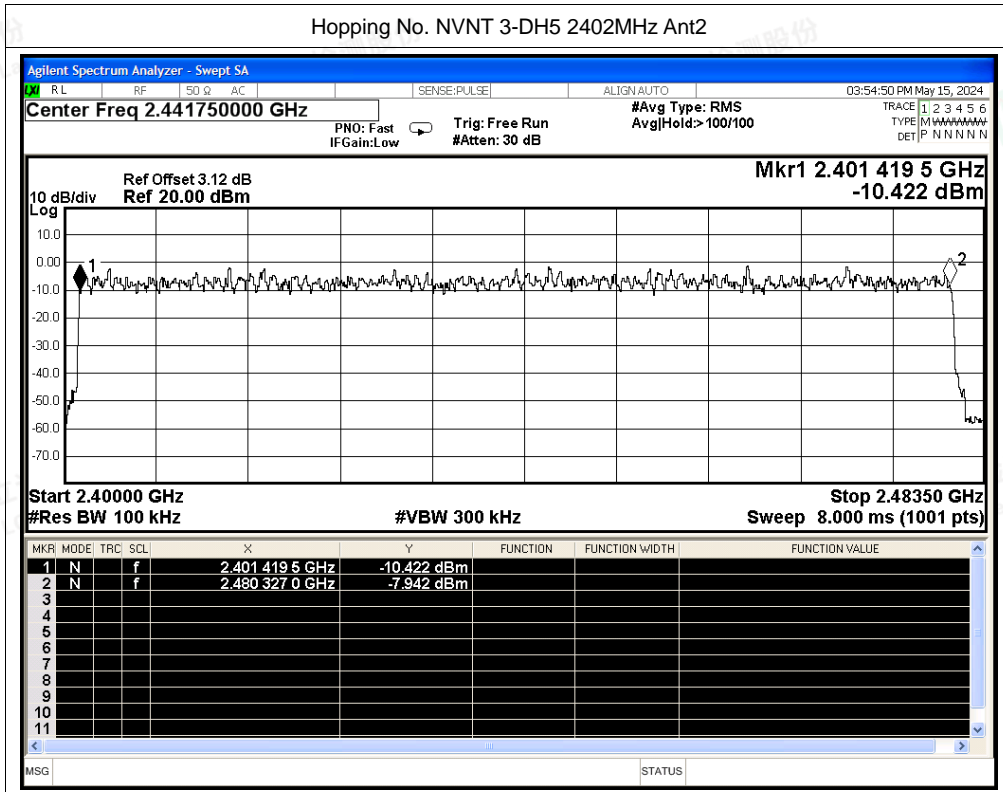
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant2



Hopping No. NVNT 2-DH5 2402MHz Ant2







A.6 Band Edge

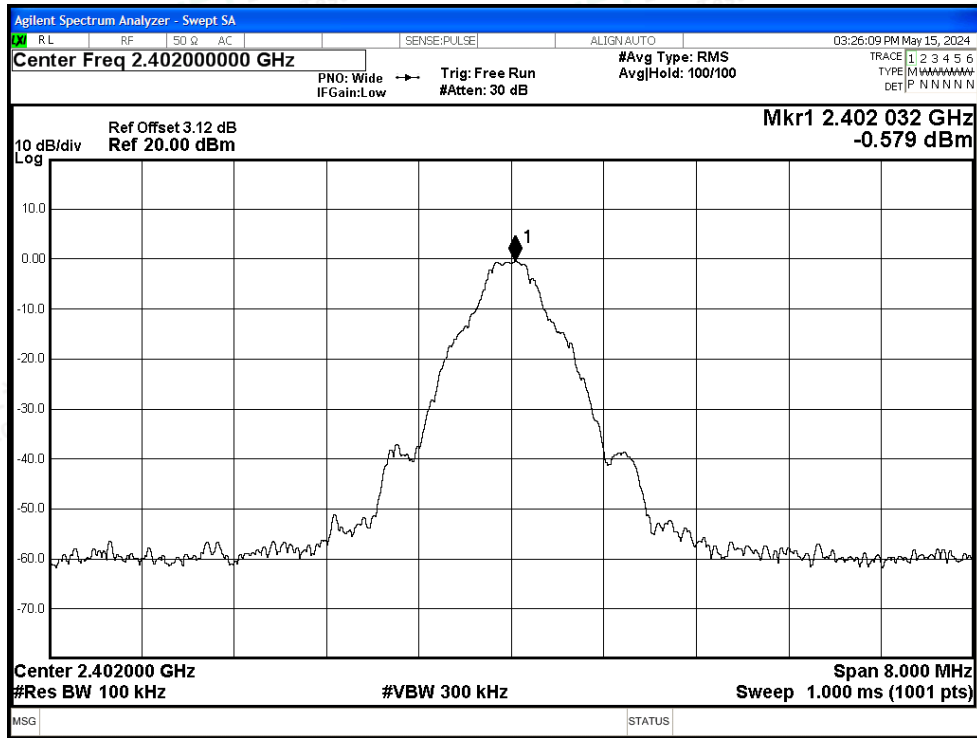
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant2	No-Hopping	-55.63	-20	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	-55.24	-20	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	-53.68	-20	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	-53.76	-20	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	-50.57	-20	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	-54.42	-20	Pass



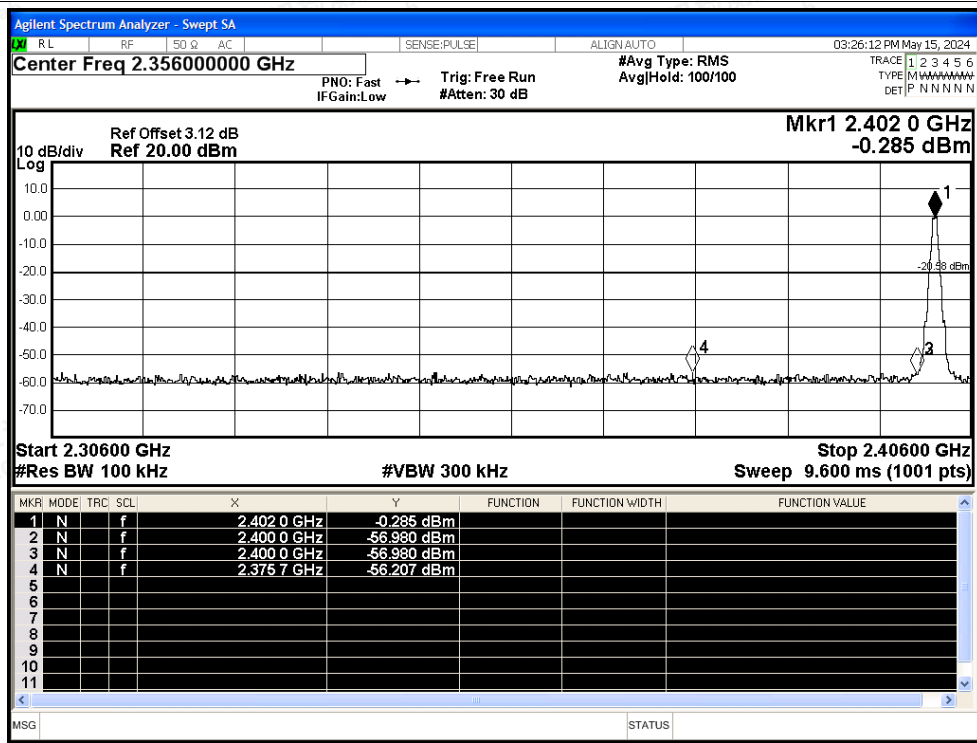


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant2 No-Hopping Ref

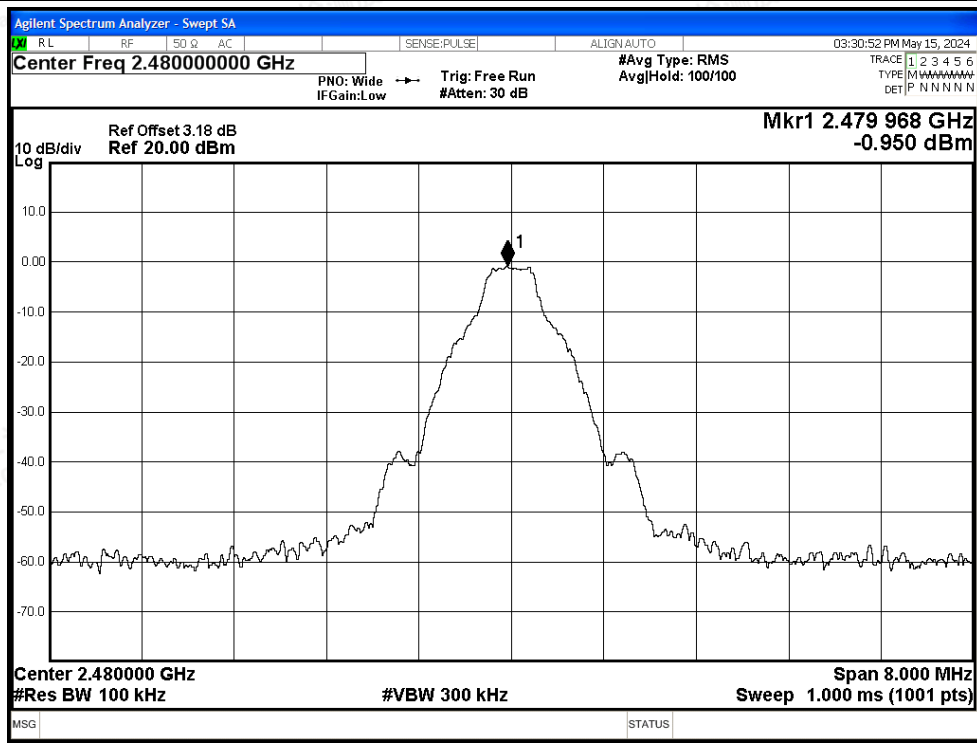


Band Edge NVNT 1-DH5 2402MHz Ant2 No-Hopping Emission

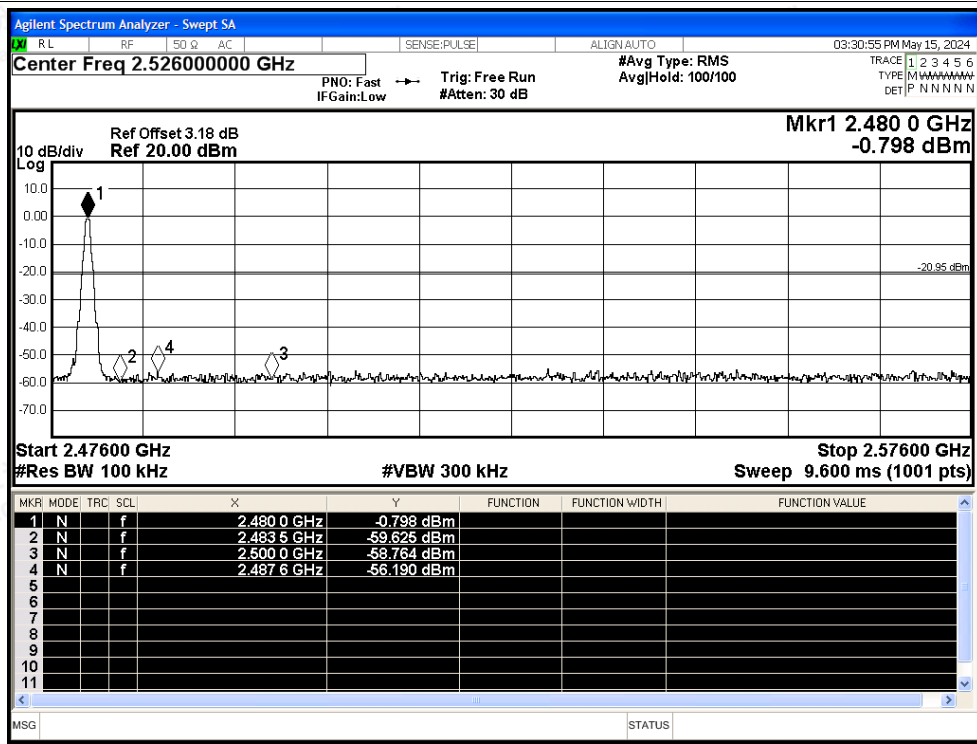




Band Edge NVNT 1-DH5 2480MHz Ant2 No-Hopping Ref

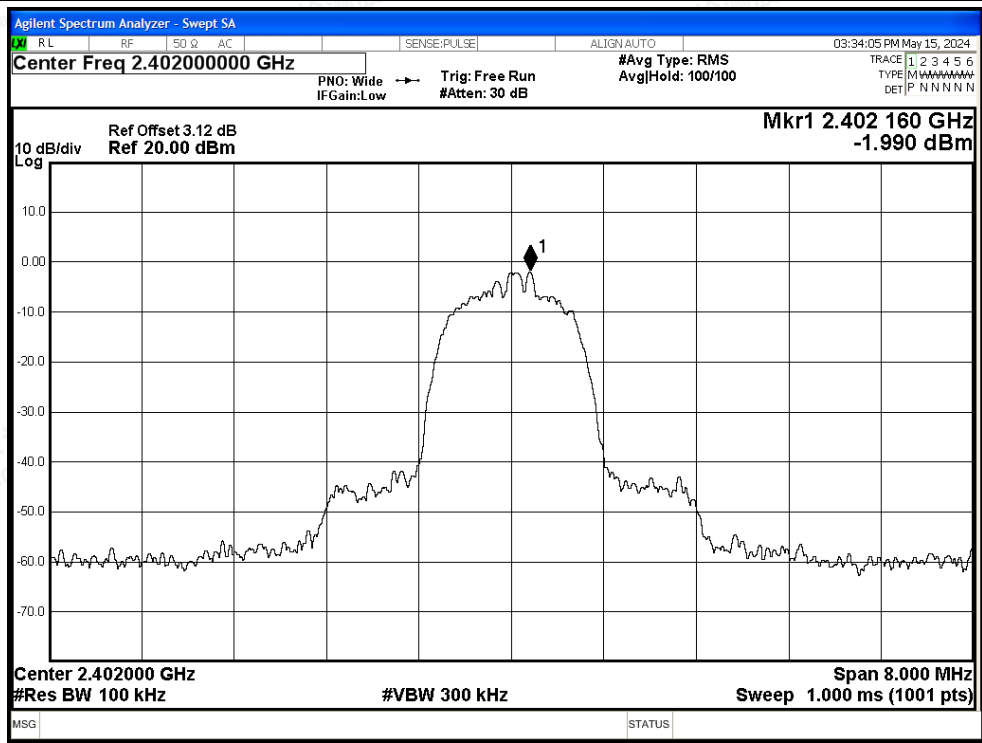


Band Edge NVNT 1-DH5 2480MHz Ant2 No-Hopping Emission

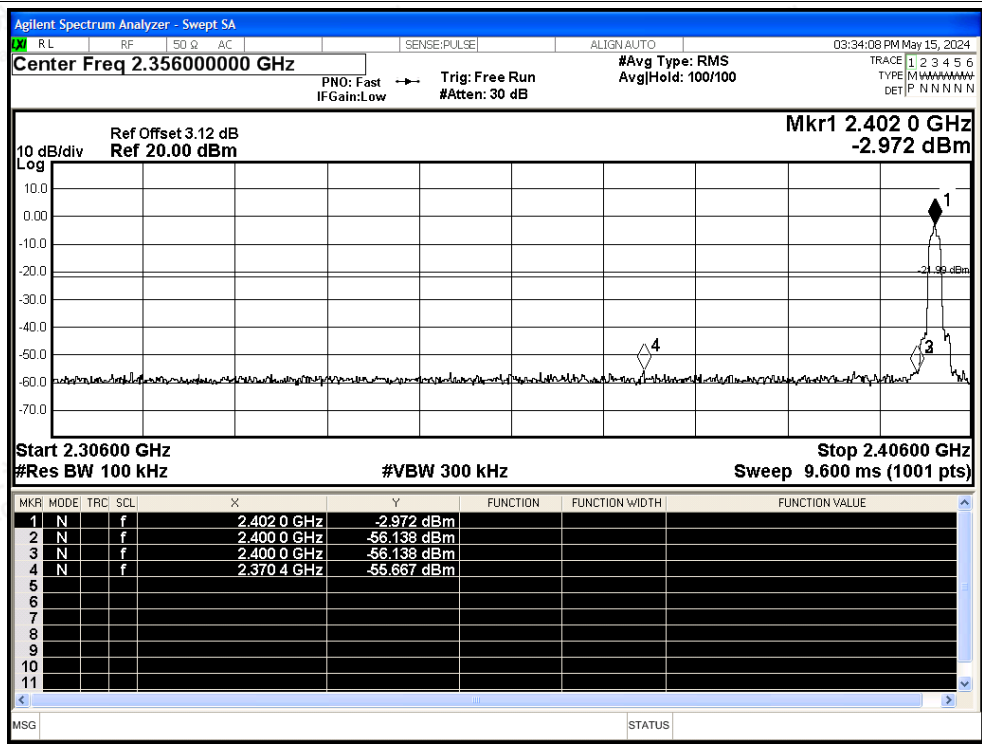




Band Edge NVNT 2-DH5 2402MHz Ant2 No-Hopping Ref

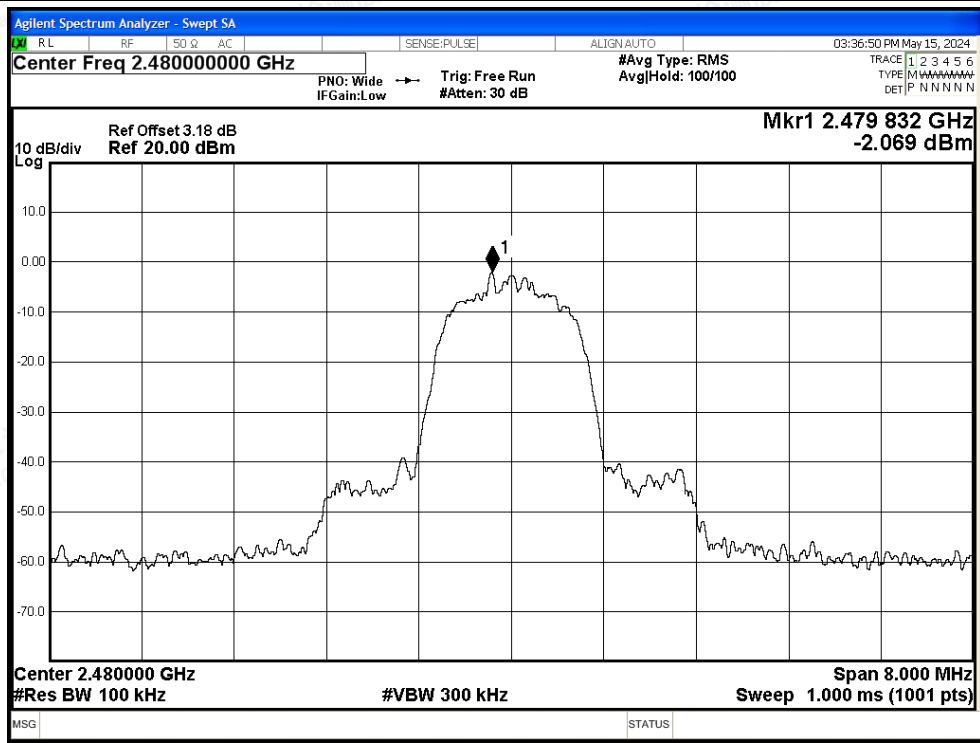


Band Edge NVNT 2-DH5 2402MHz Ant2 No-Hopping Emission

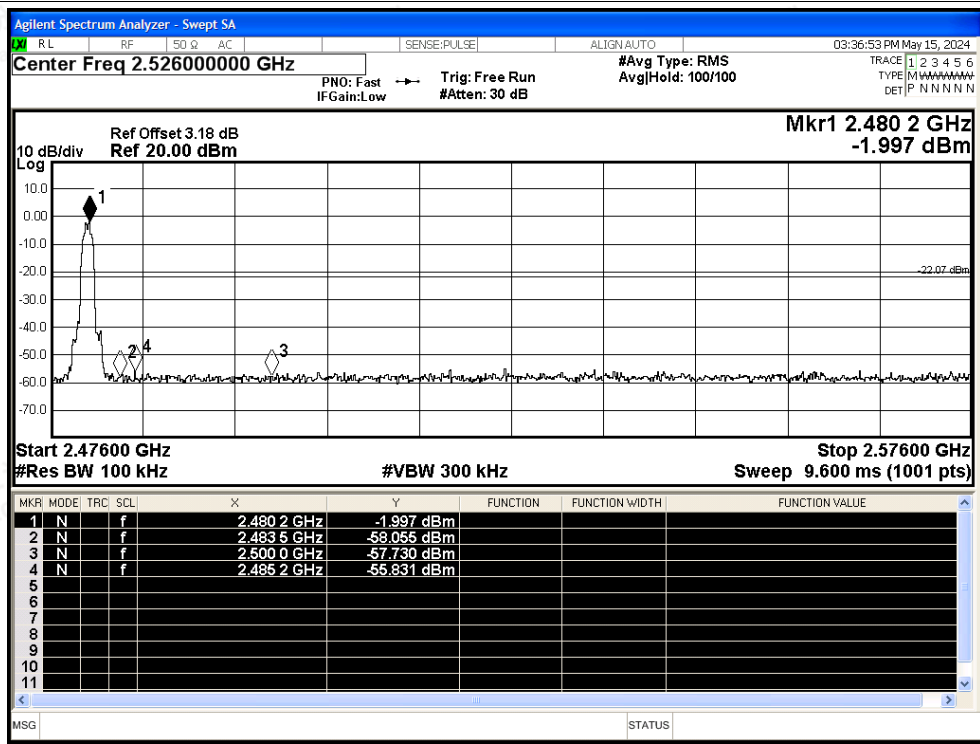




Band Edge NVNT 2-DH5 2480MHz Ant2 No-Hopping Ref

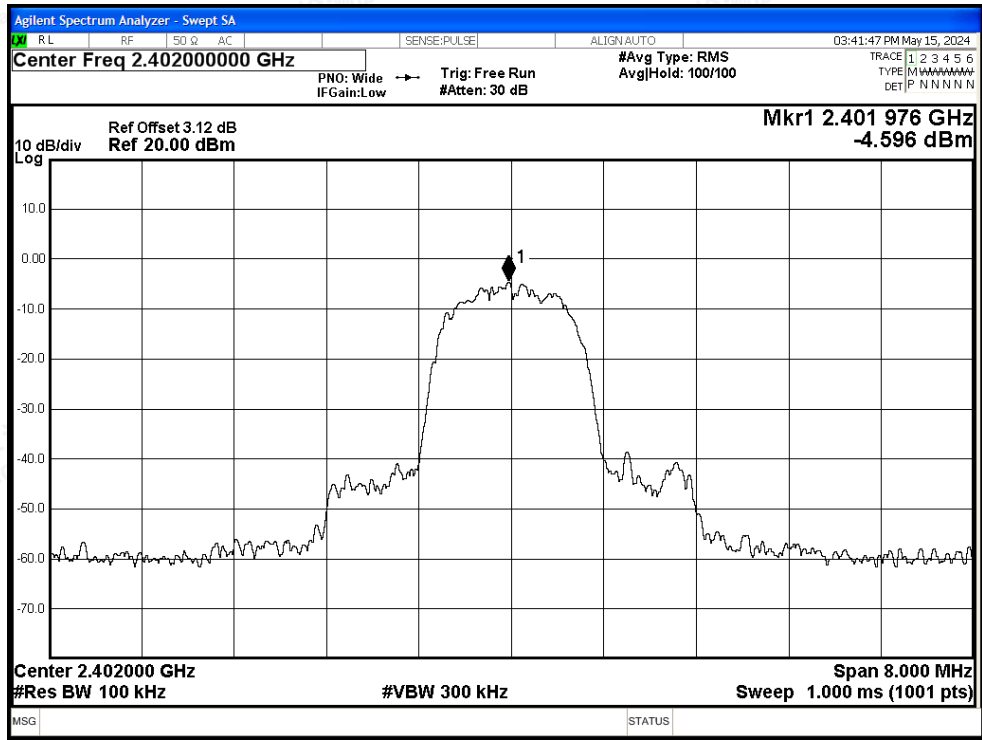


Band Edge NVNT 2-DH5 2480MHz Ant2 No-Hopping Emission

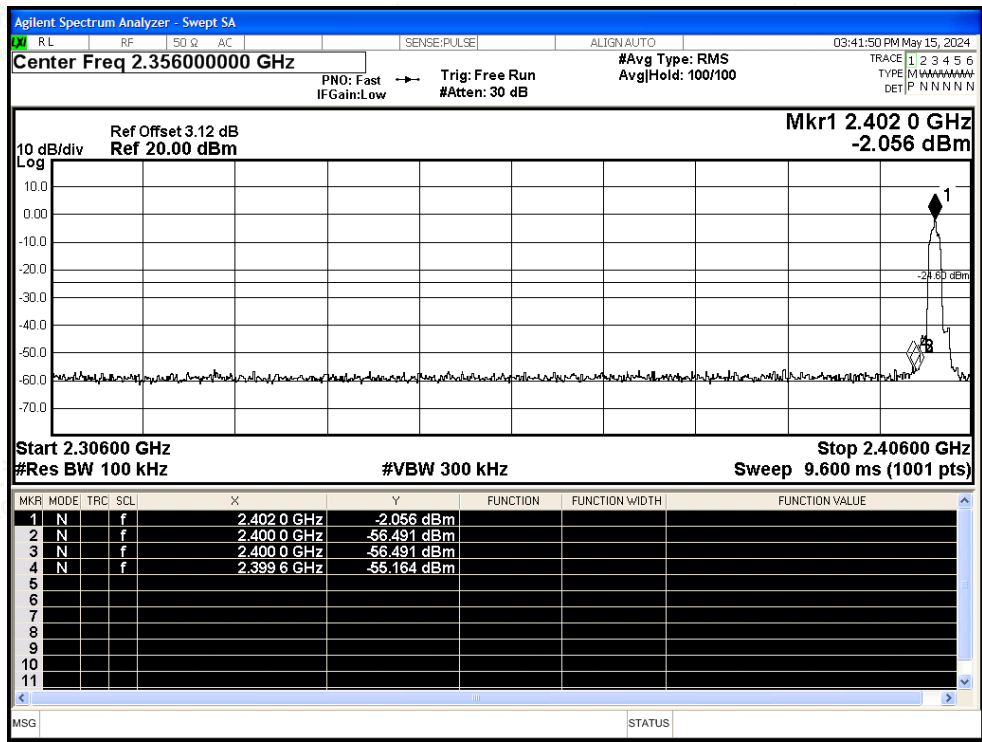




Band Edge NVNT 3-DH5 2402MHz Ant2 No-Hopping Ref

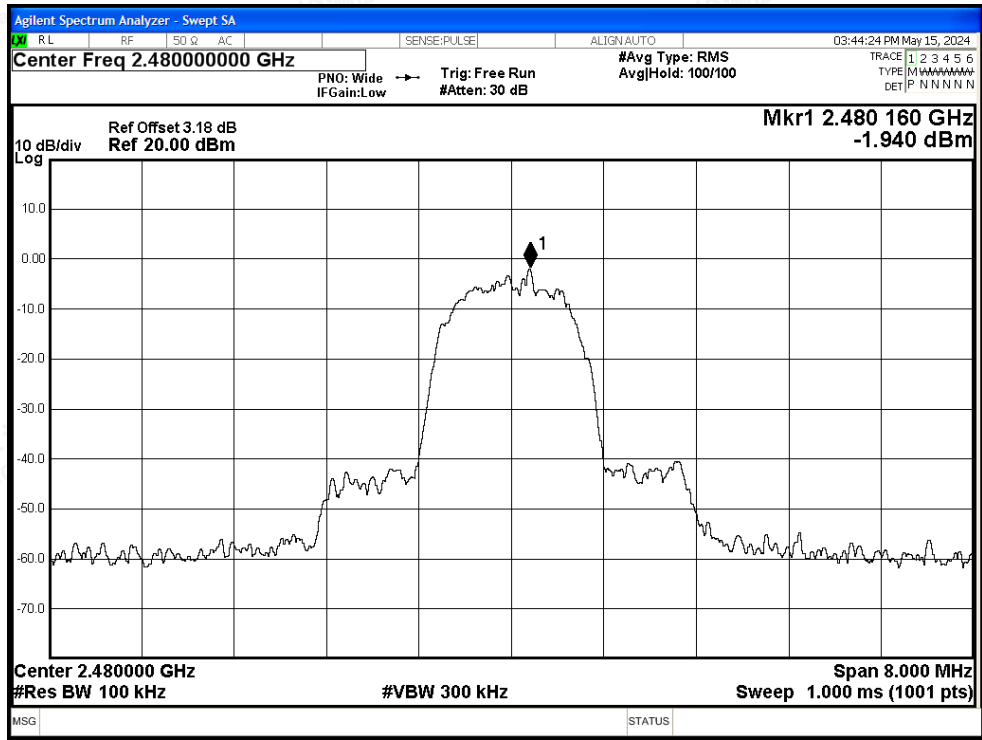


Band Edge NVNT 3-DH5 2402MHz Ant2 No-Hopping Emission

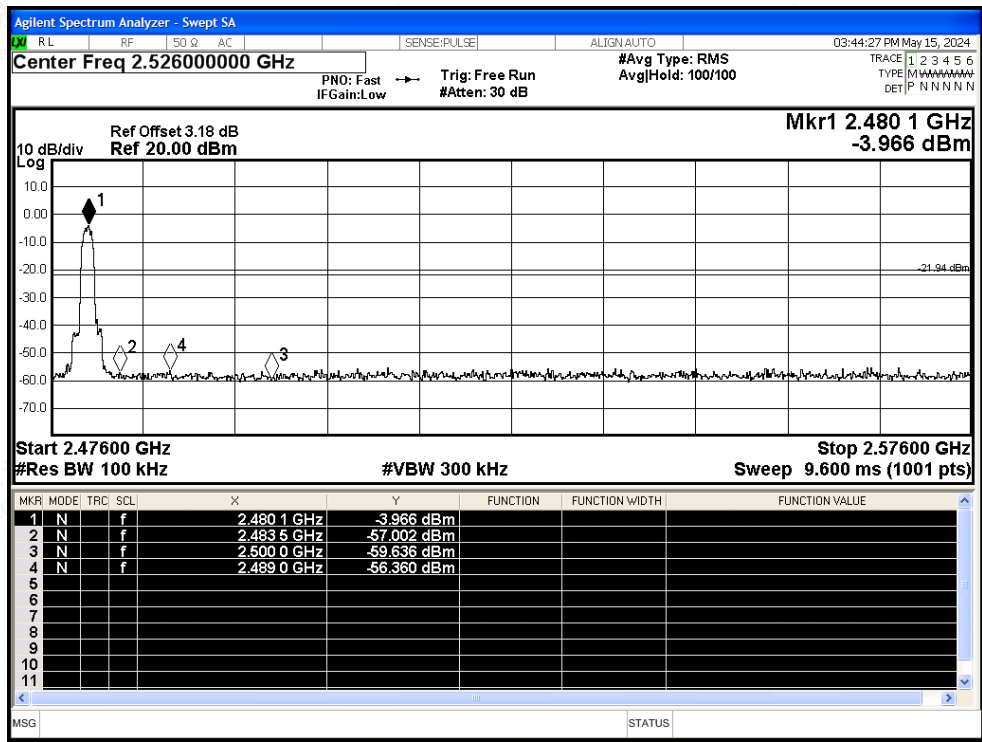




Band Edge NVNT 3-DH5 2480MHz Ant2 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant2 No-Hopping Emission





(Hopping)

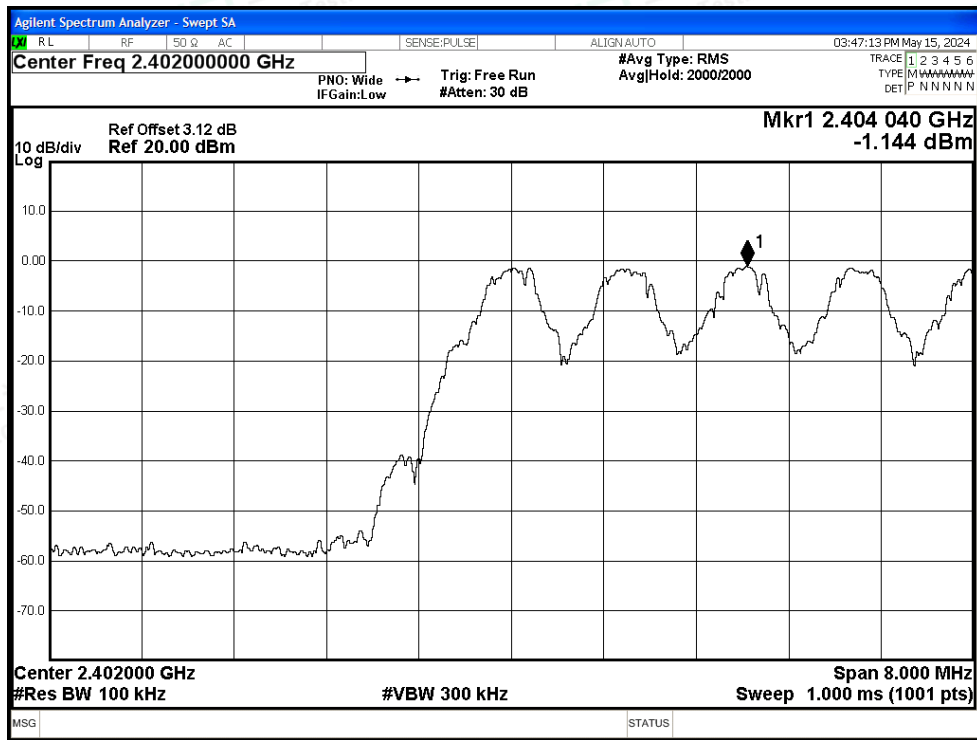
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant2	Hopping	-53.93	-20	Pass
NVNT	1-DH5	2480	Ant2	Hopping	-54.58	-20	Pass
NVNT	2-DH5	2402	Ant2	Hopping	-52.95	-20	Pass
NVNT	2-DH5	2480	Ant2	Hopping	-53.77	-20	Pass
NVNT	3-DH5	2402	Ant2	Hopping	-53.08	-20	Pass
NVNT	3-DH5	2480	Ant2	Hopping	-53.79	-20	Pass



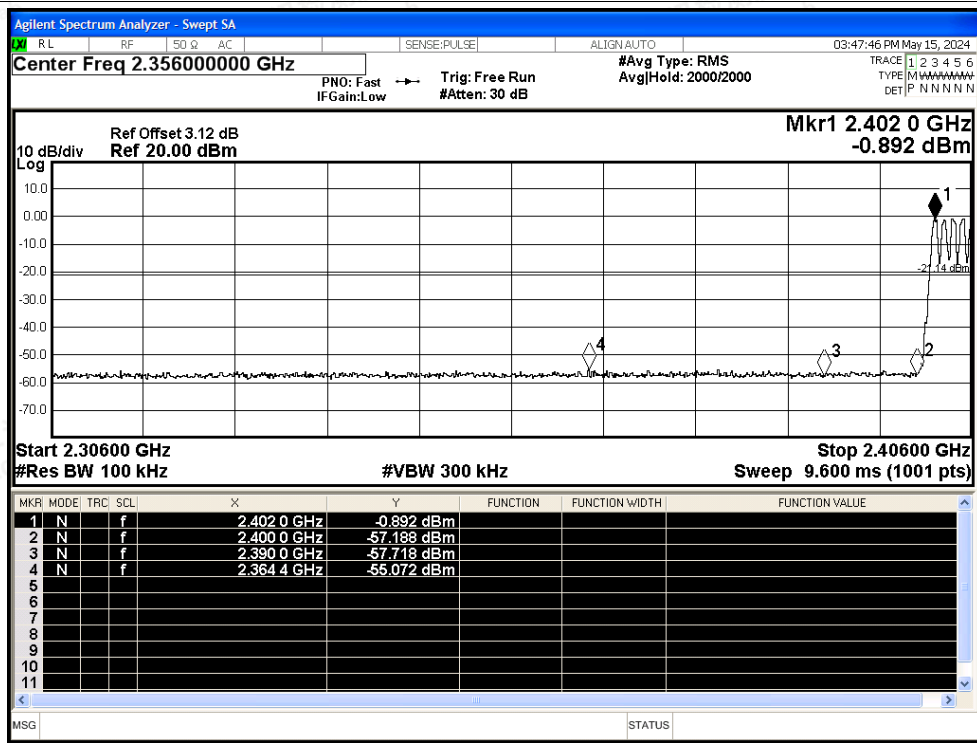


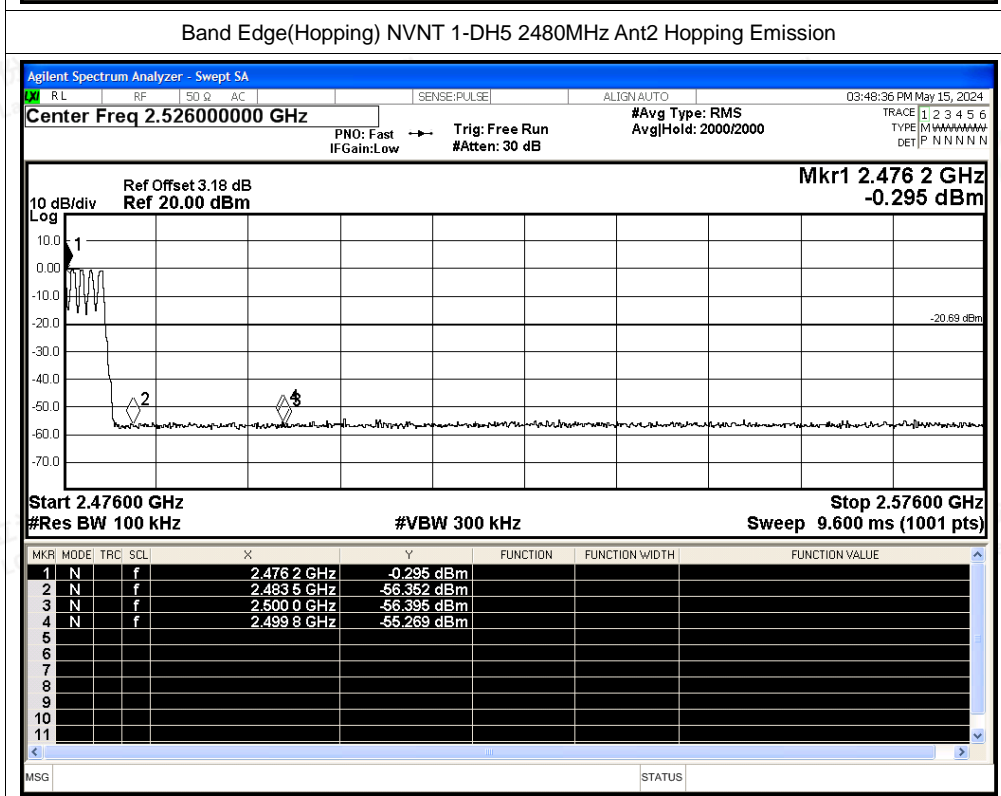
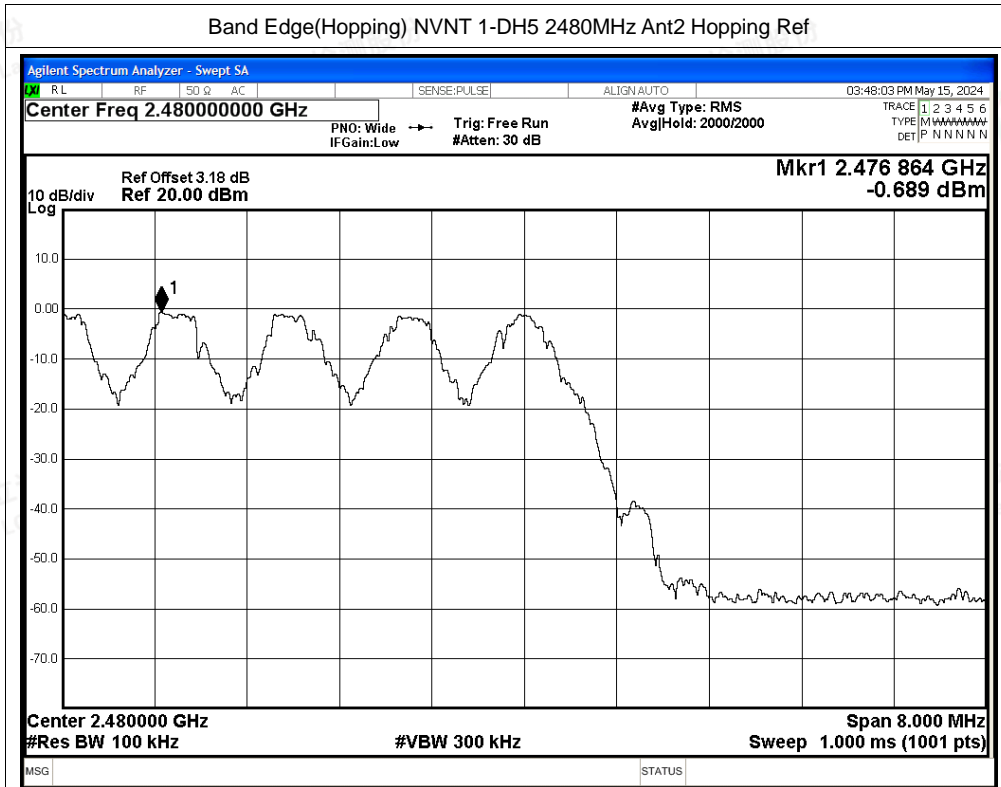
Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant2 Hopping Ref



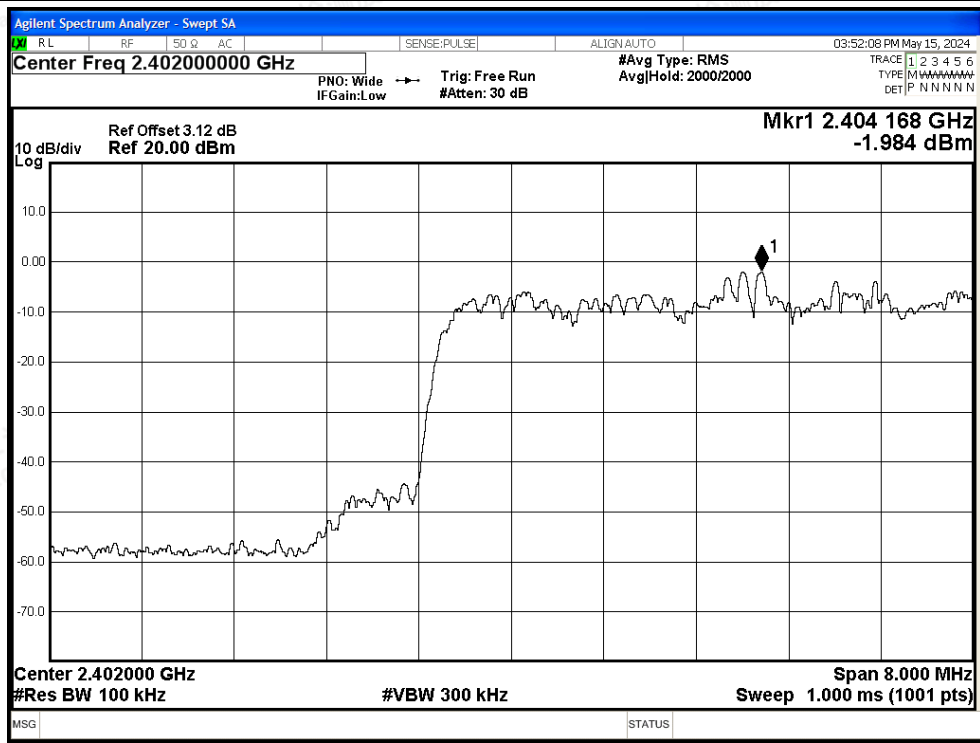
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant2 Hopping Emission



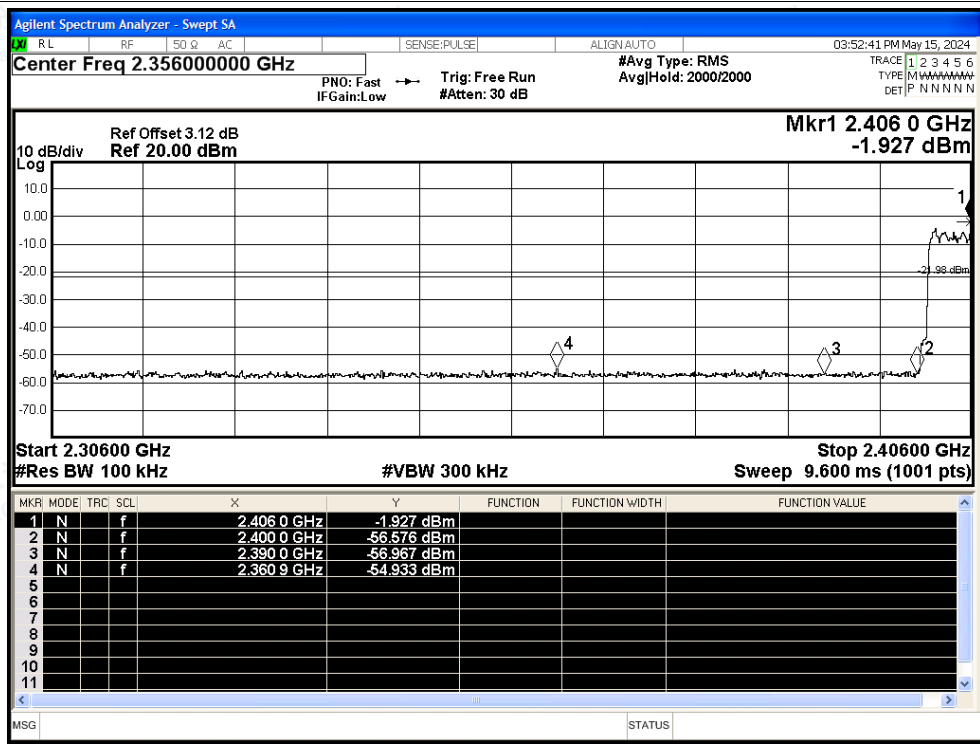




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant2 Hopping Ref

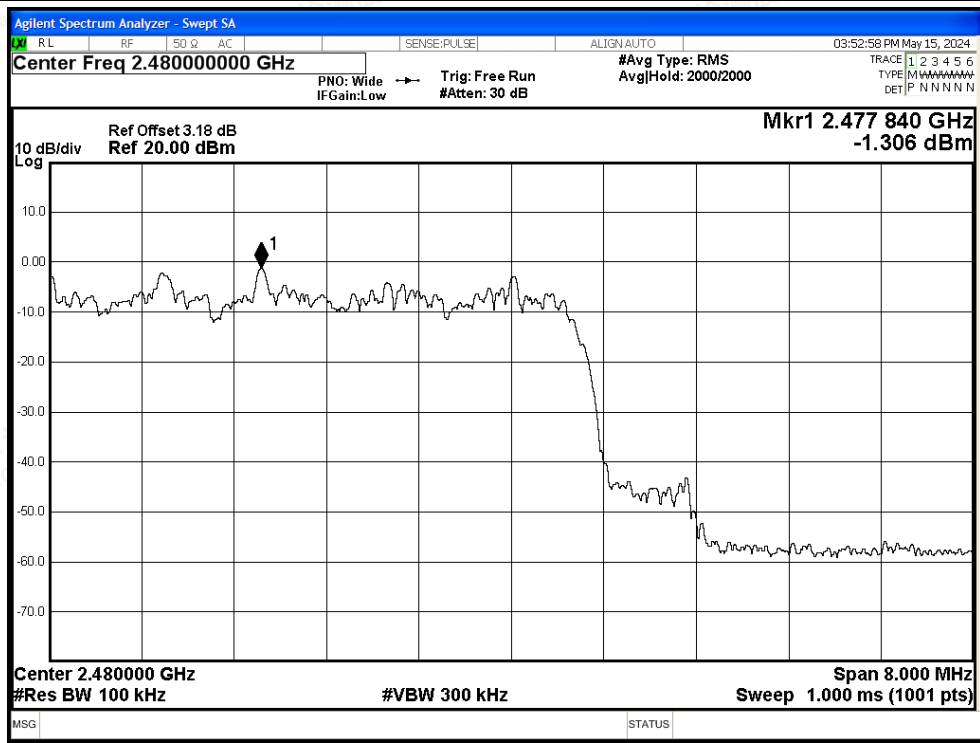


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant2 Hopping Emission

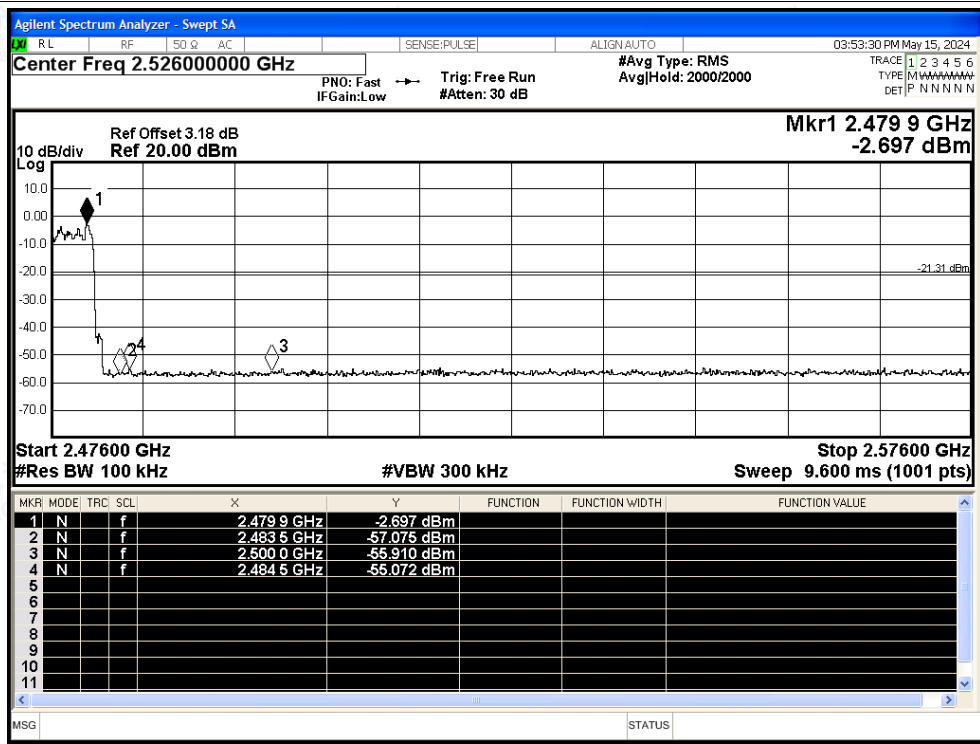


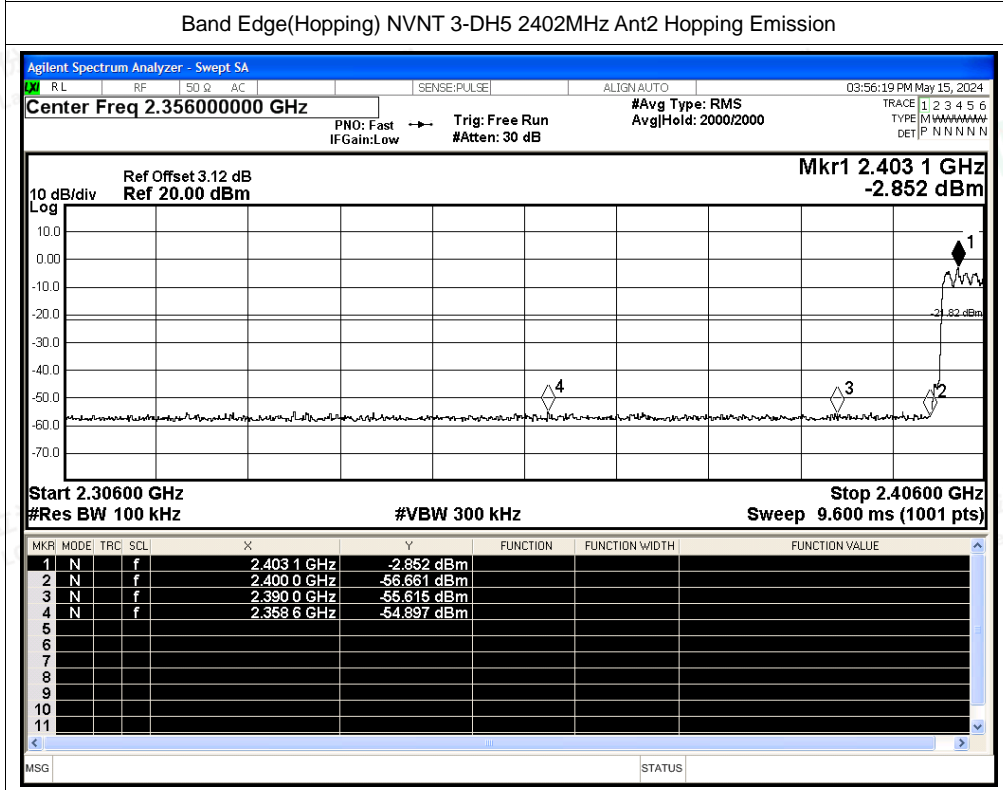
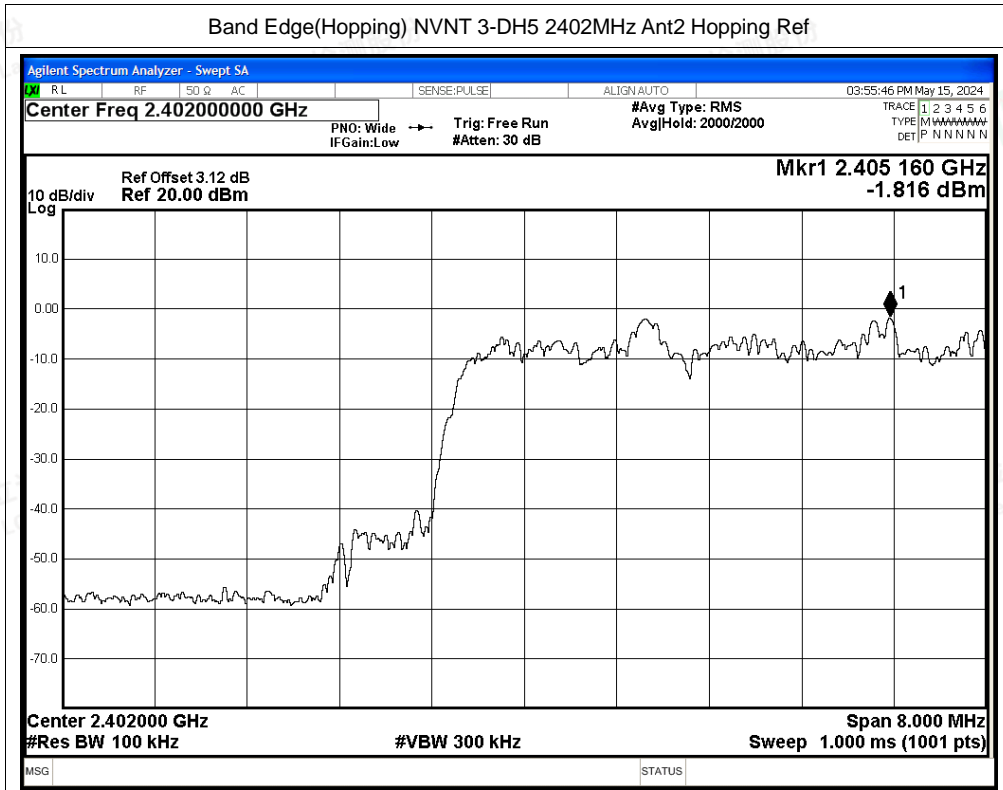


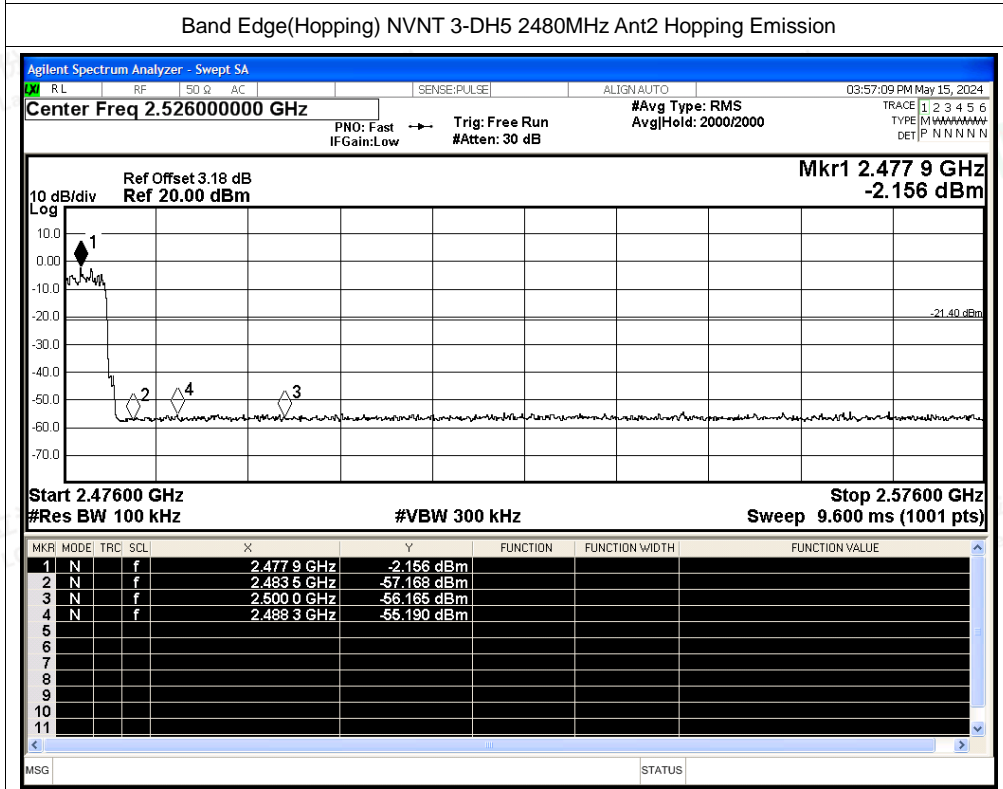
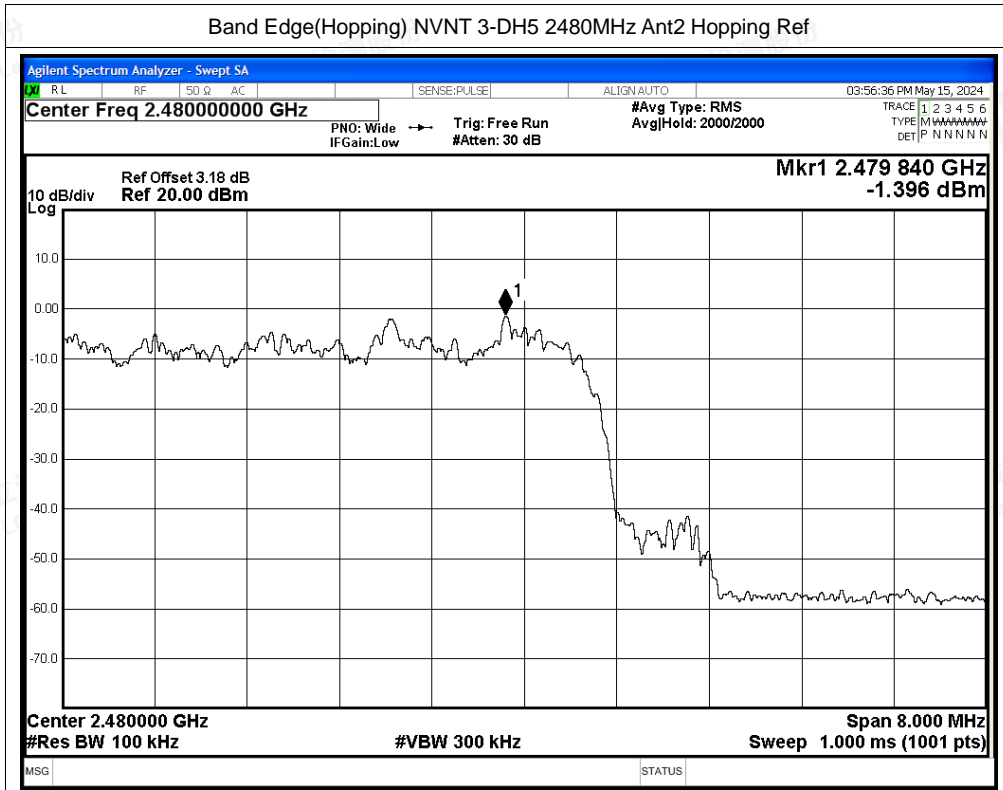
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant2 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant2 Hopping Emission









A.7 Conducted RF Spurious Emission

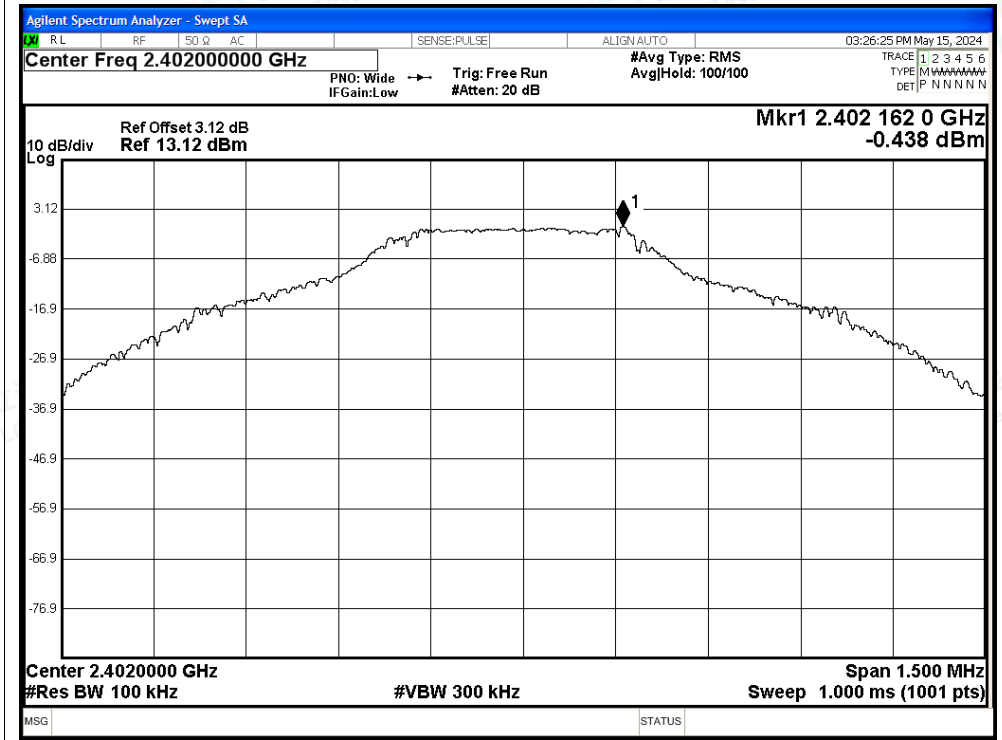
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant2	-53.81	-20	Pass
NVNT	1-DH5	2441	Ant2	-54.42	-20	Pass
NVNT	1-DH5	2480	Ant2	-53.76	-20	Pass
NVNT	2-DH5	2402	Ant2	-52.77	-20	Pass
NVNT	2-DH5	2441	Ant2	-51.49	-20	Pass
NVNT	2-DH5	2480	Ant2	-52.75	-20	Pass
NVNT	3-DH5	2402	Ant2	-52.41	-20	Pass
NVNT	3-DH5	2441	Ant2	-52.69	-20	Pass
NVNT	3-DH5	2480	Ant2	-52.61	-20	Pass



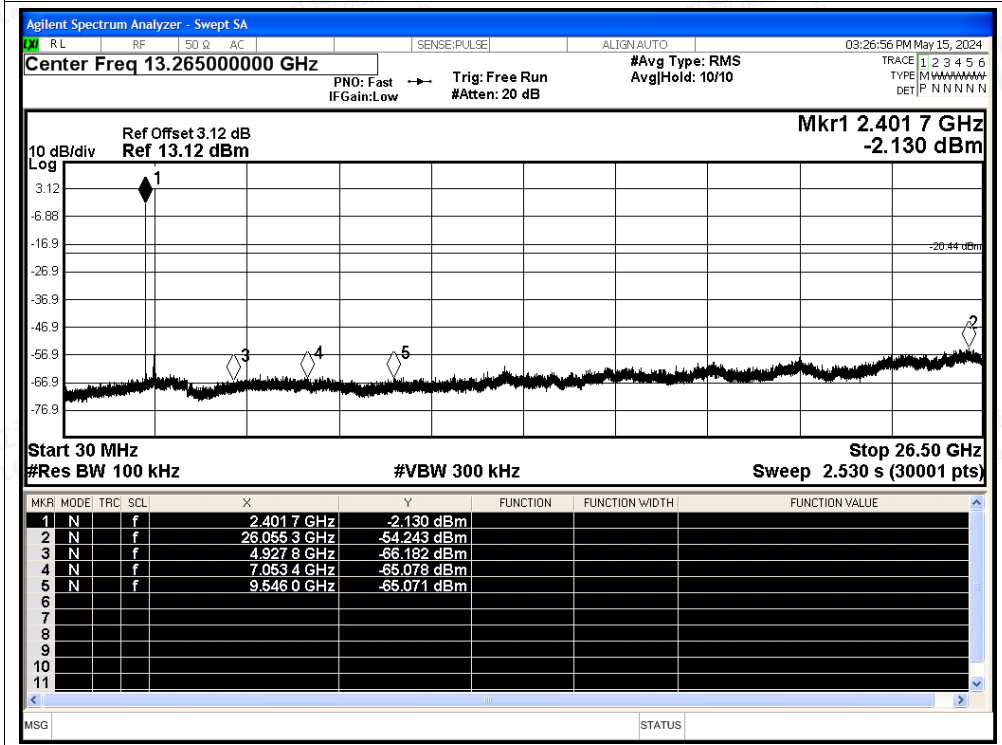


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant2 Ref

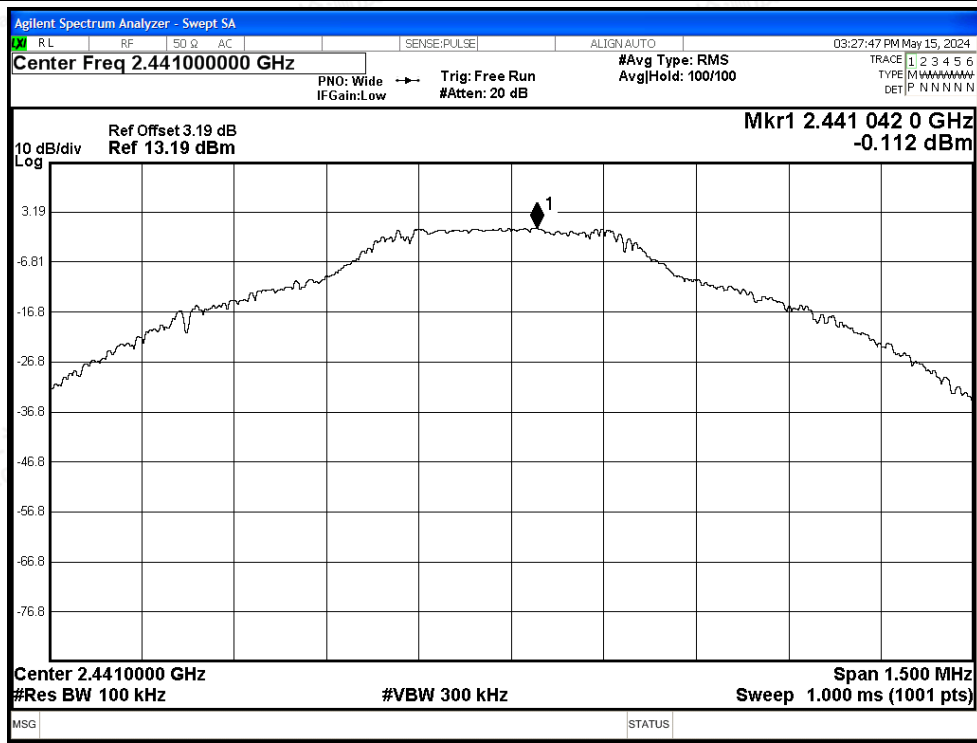


Tx. Spurious NVNT 1-DH5 2402MHz Ant2 Emission

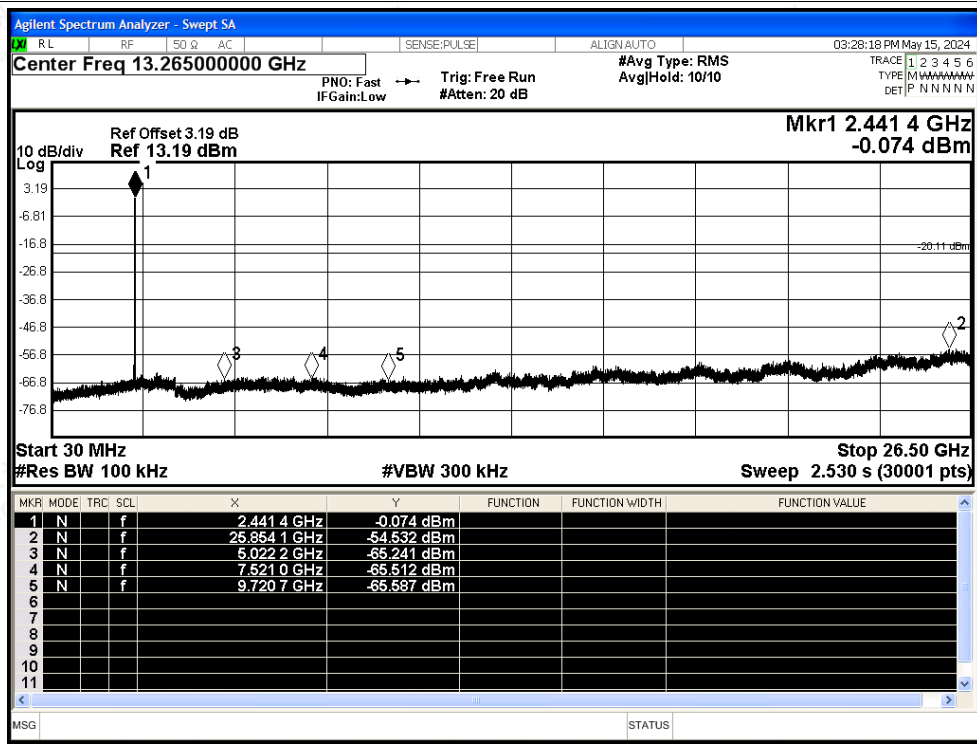




Tx. Spurious NVNT 1-DH5 2441MHz Ant2 Ref

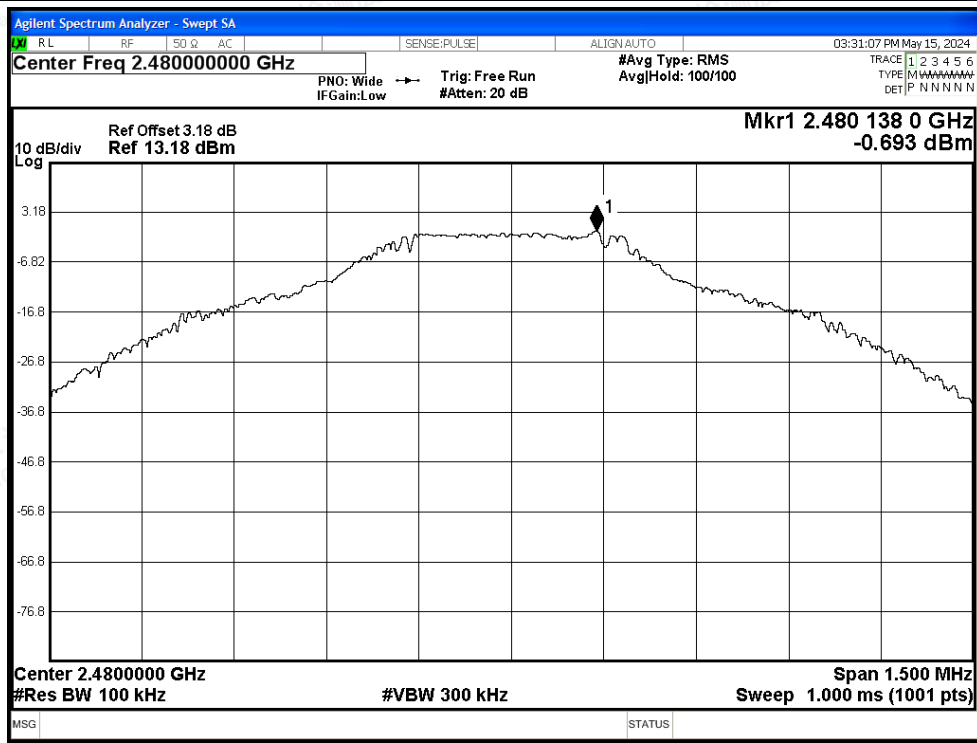


Tx. Spurious NVNT 1-DH5 2441MHz Ant2 Emission

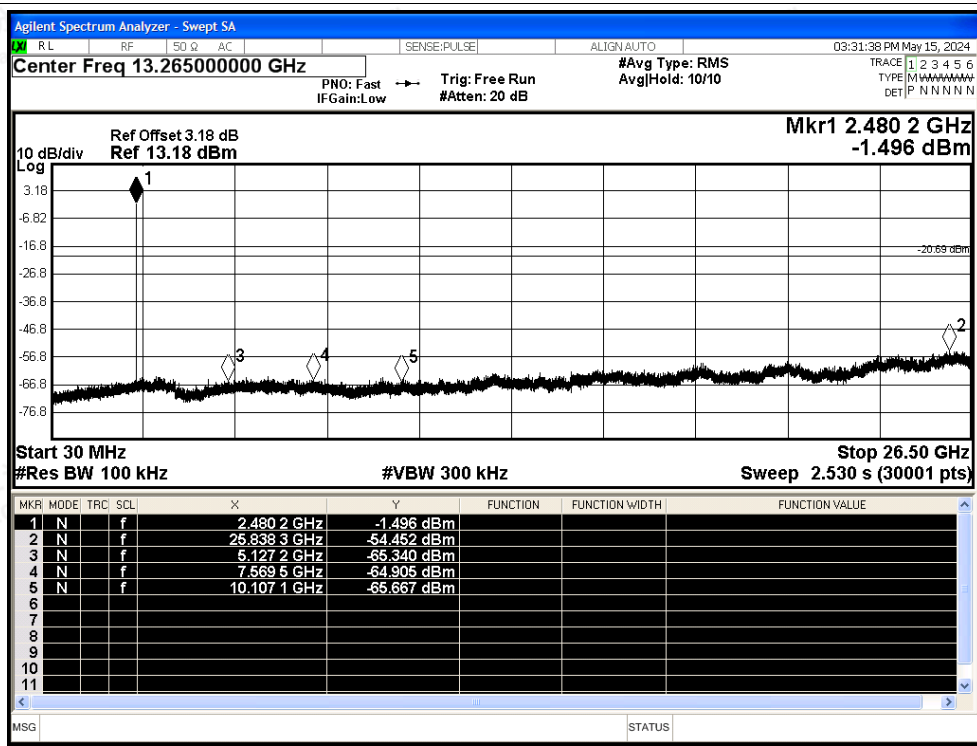




Tx. Spurious NVNT 1-DH5 2480MHz Ant2 Ref

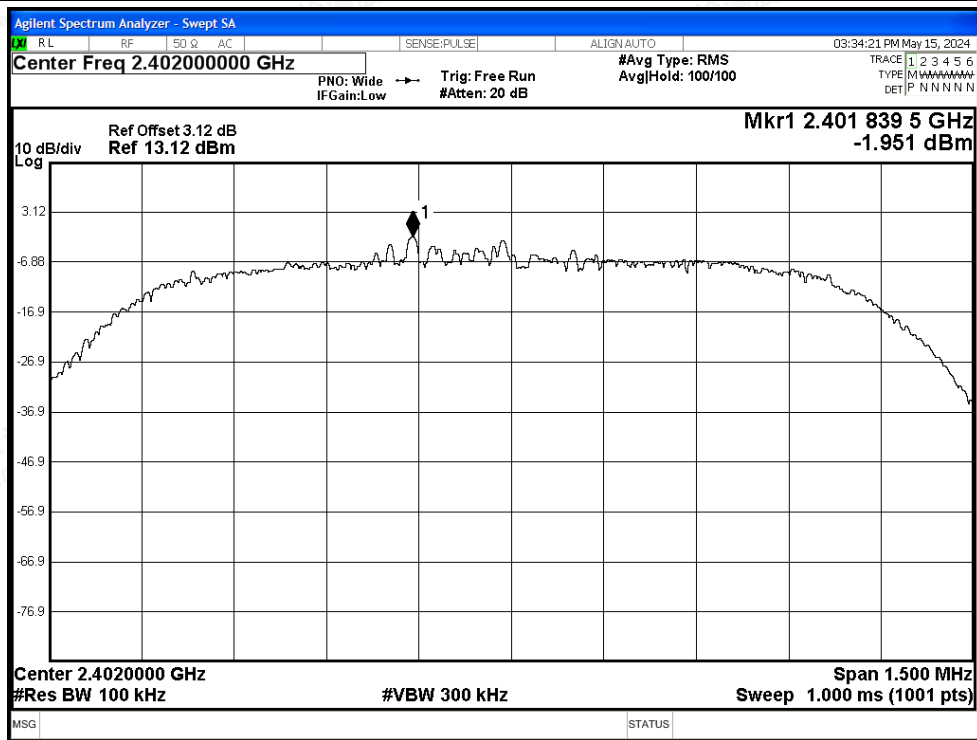


Tx. Spurious NVNT 1-DH5 2480MHz Ant2 Emission

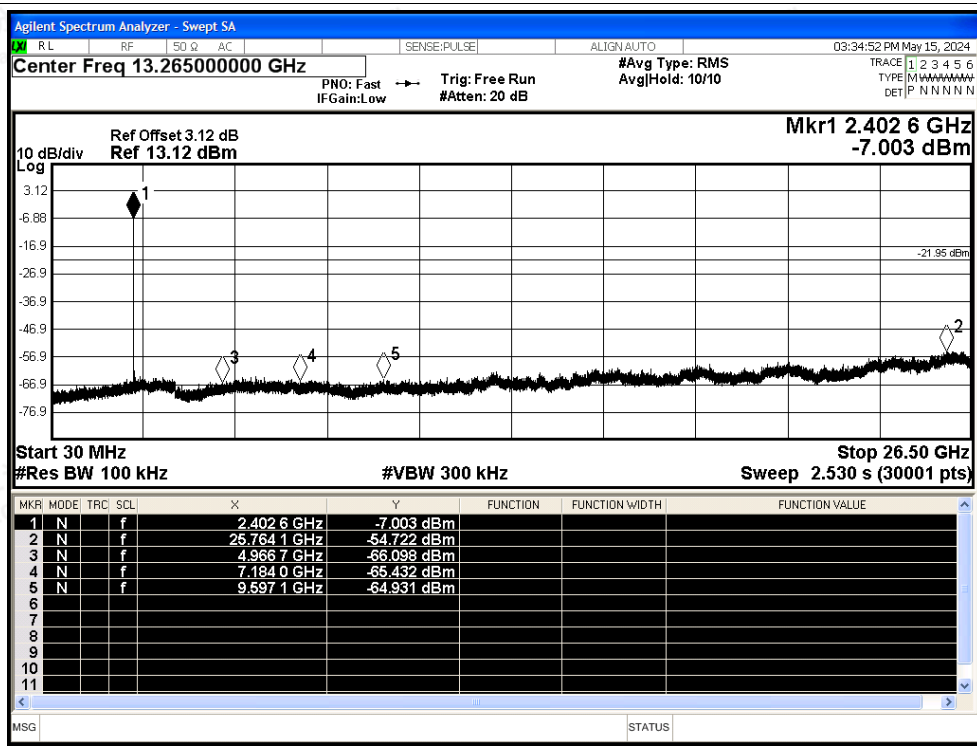




Tx. Spurious NVNT 2-DH5 2402MHz Ant2 Ref

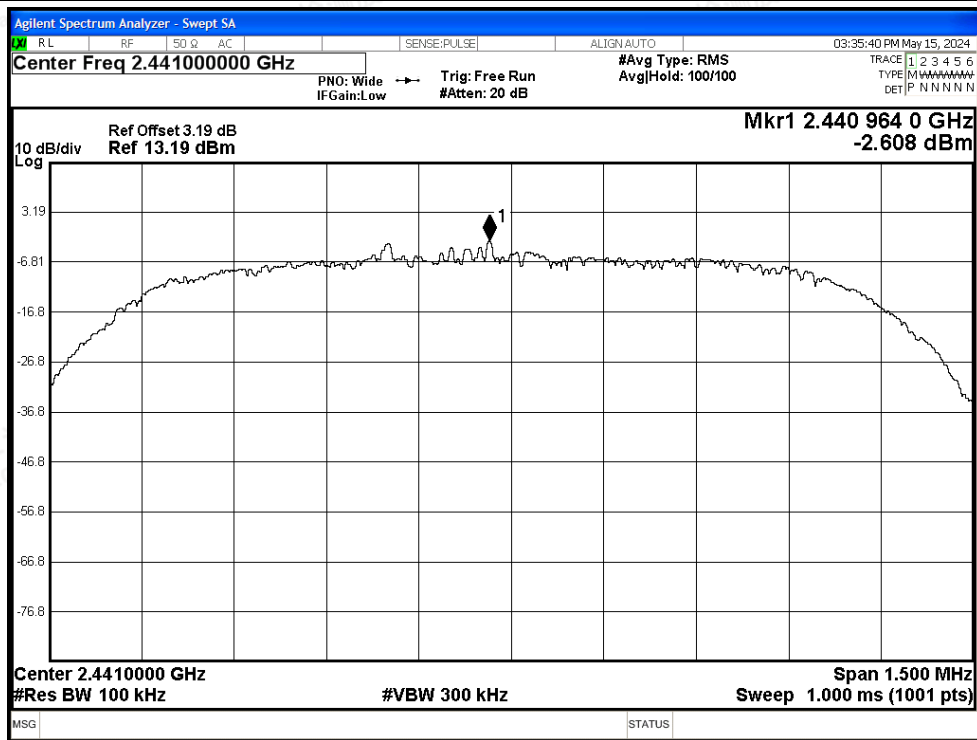


Tx. Spurious NVNT 2-DH5 2402MHz Ant2 Emission

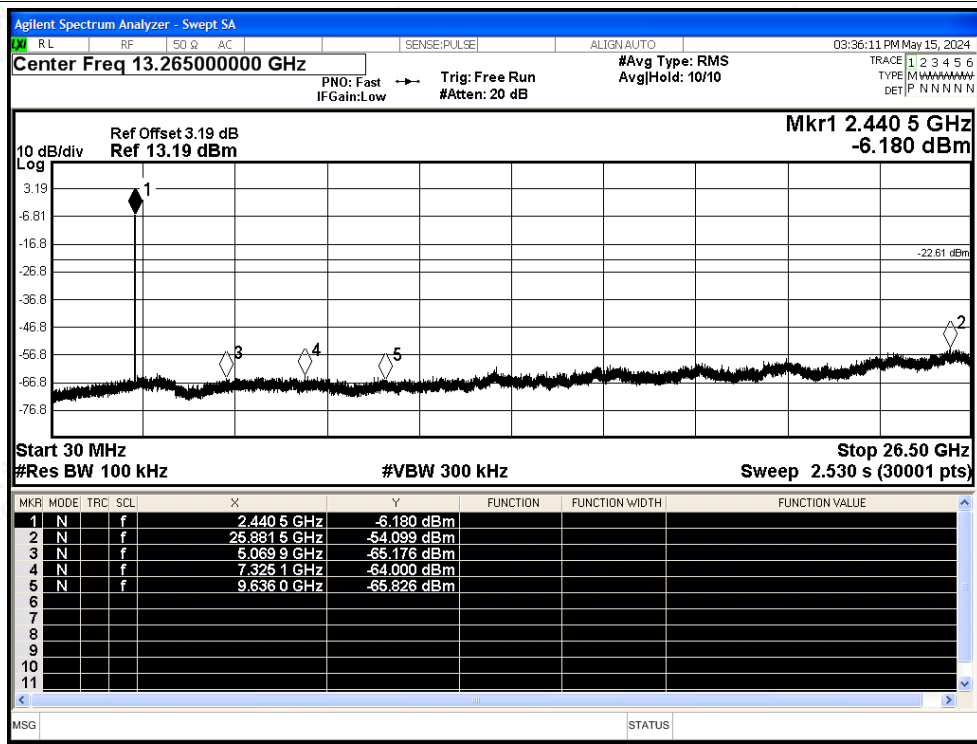




Tx. Spurious NVNT 2-DH5 2441MHz Ant2 Ref

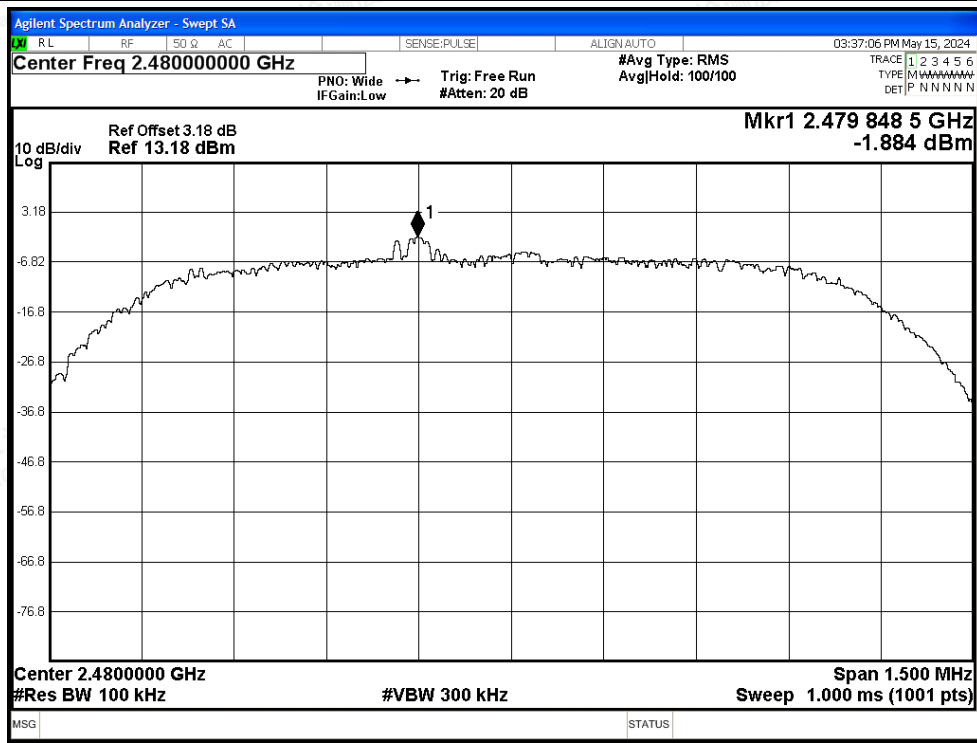


Tx. Spurious NVNT 2-DH5 2441MHz Ant2 Emission

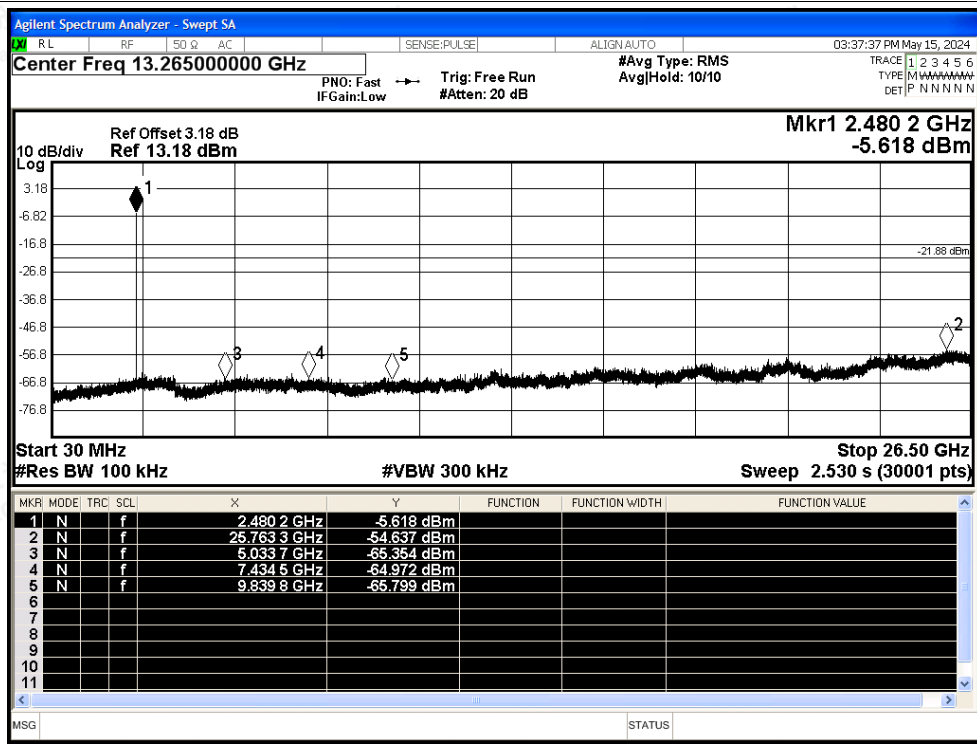




Tx. Spurious NVNT 2-DH5 2480MHz Ant2 Ref

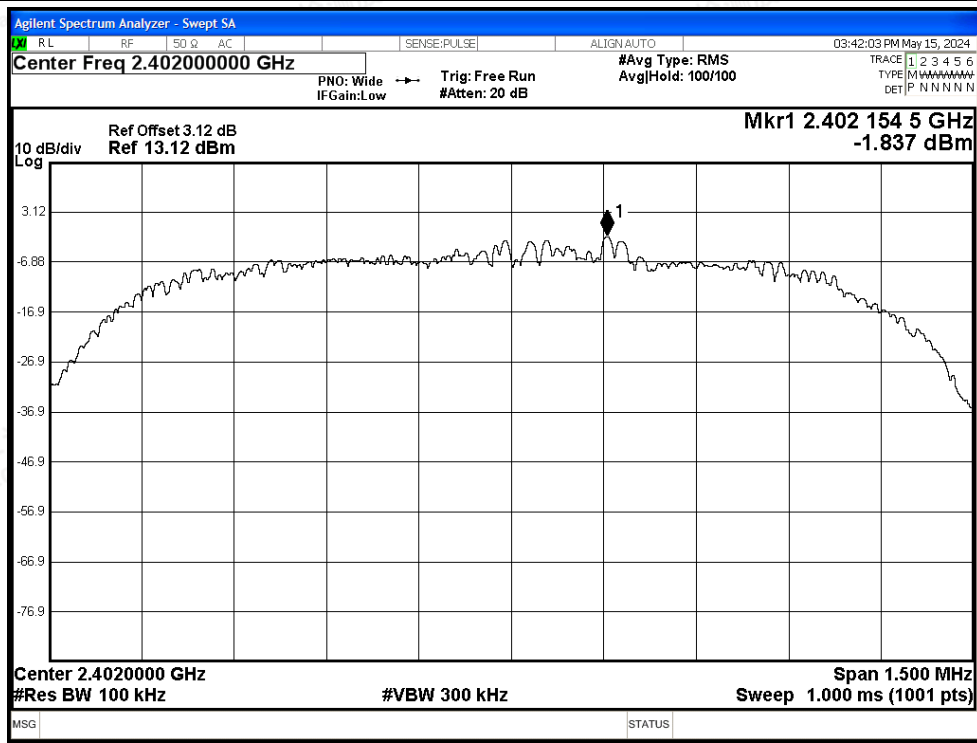


Tx. Spurious NVNT 2-DH5 2480MHz Ant2 Emission

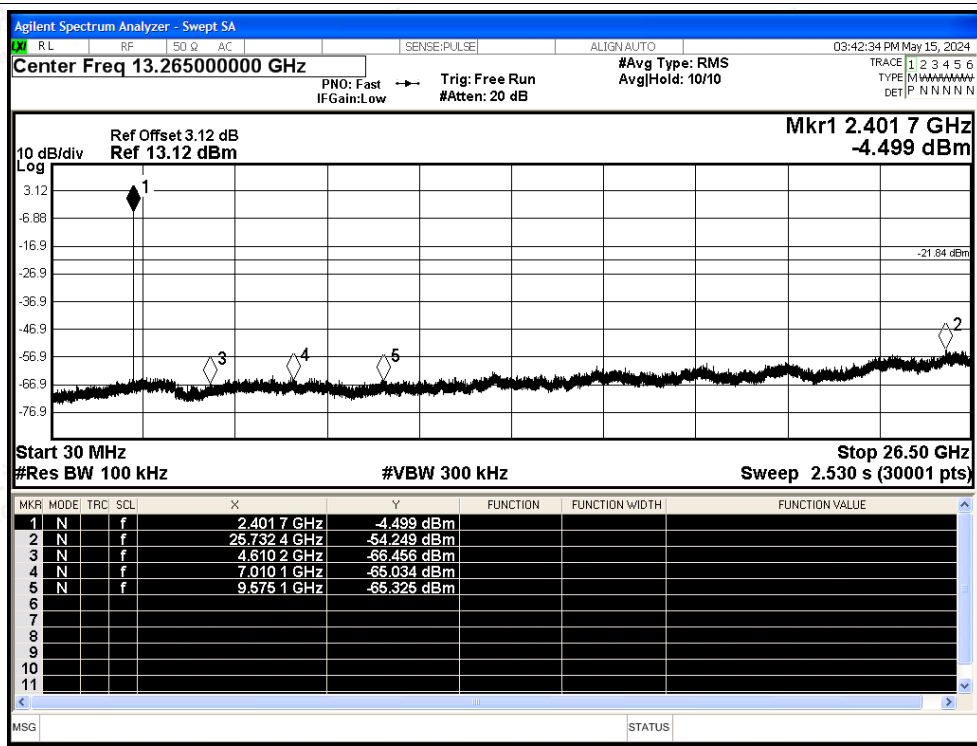




Tx. Spurious NVNT 3-DH5 2402MHz Ant2 Ref

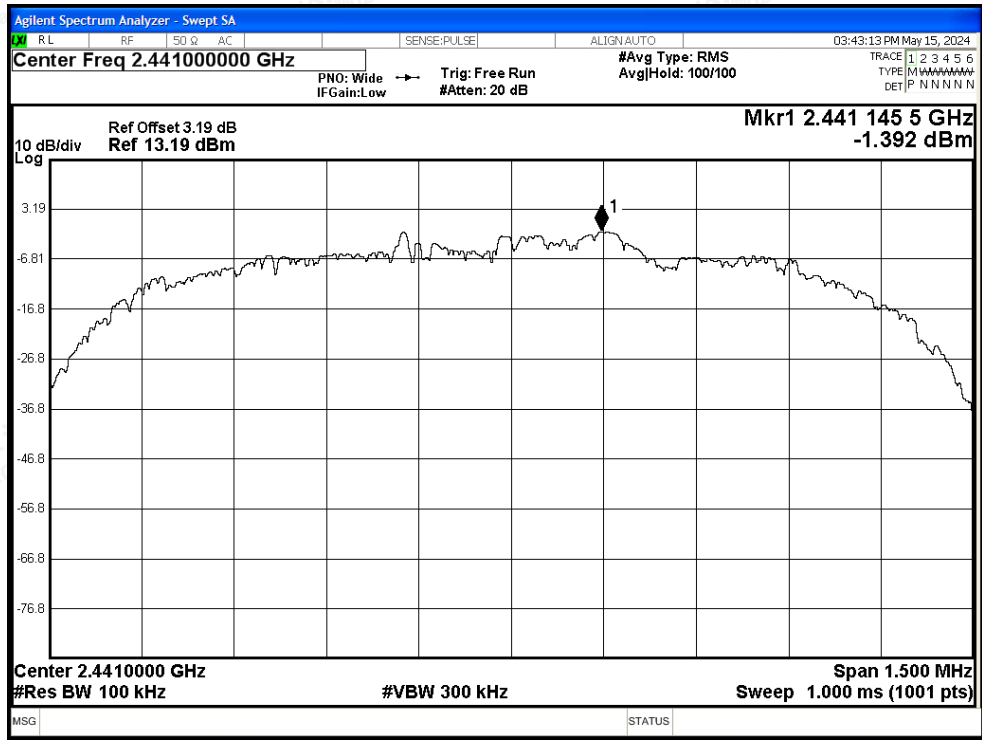


Tx. Spurious NVNT 3-DH5 2402MHz Ant2 Emission

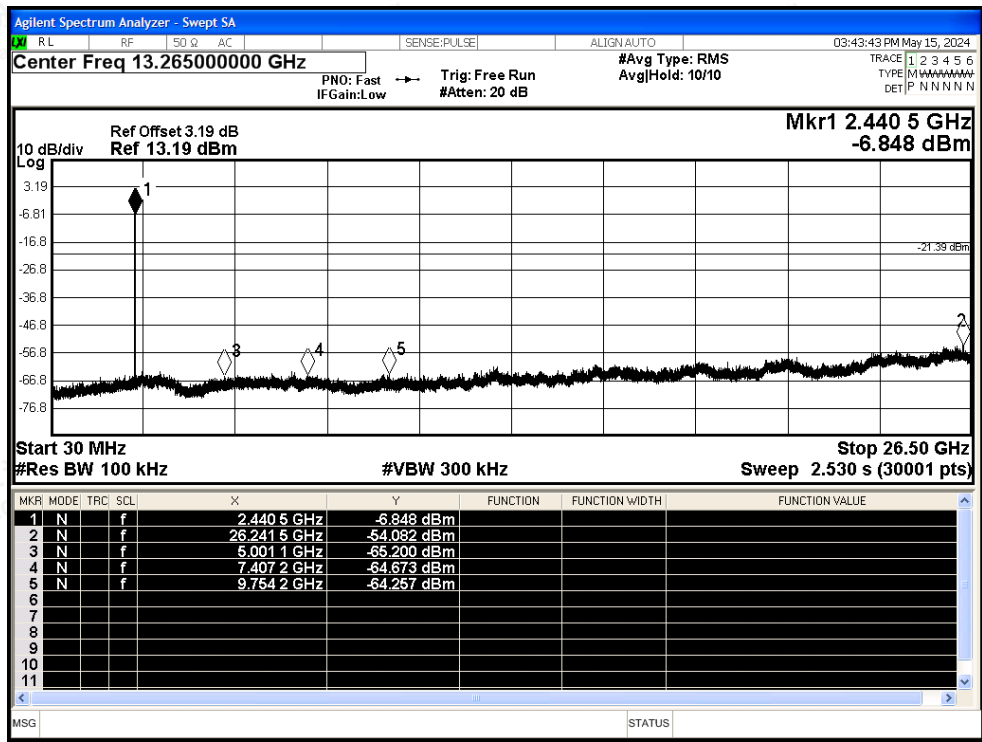




Tx. Spurious NVNT 3-DH5 2441MHz Ant2 Ref

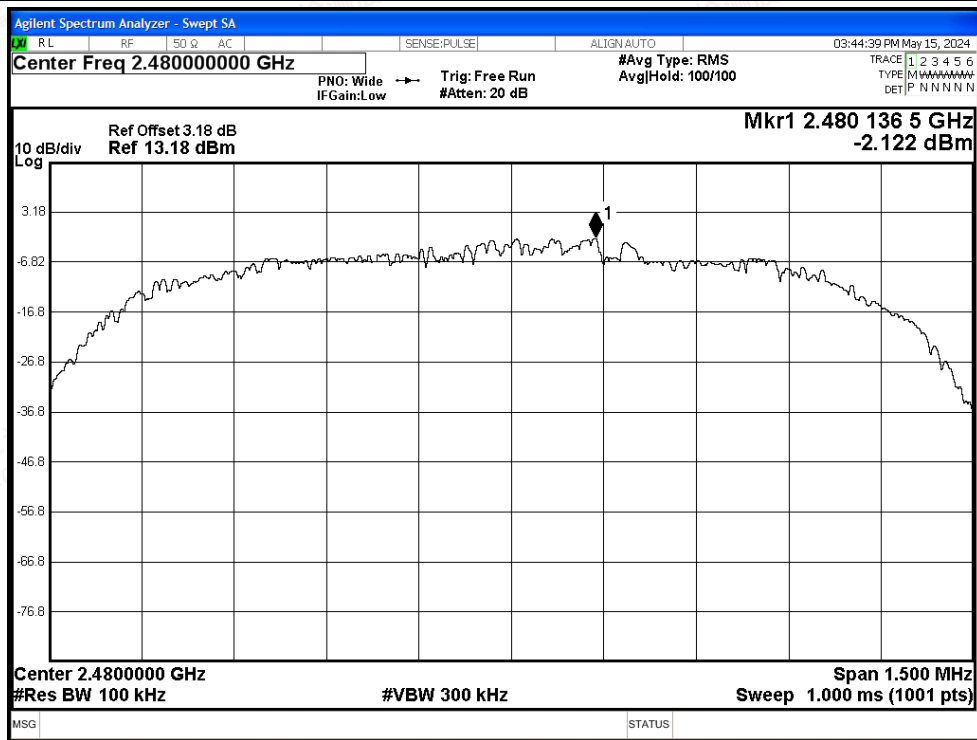


Tx. Spurious NVNT 3-DH5 2441MHz Ant2 Emission

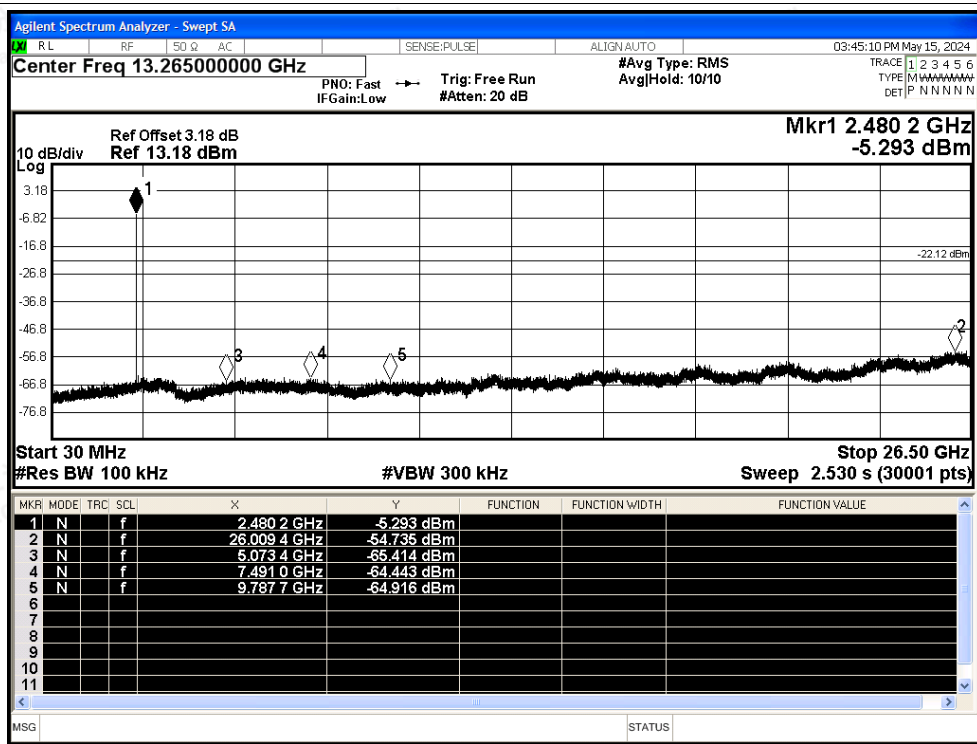




Tx. Spurious NVNT 3-DH5 2480MHz Ant2 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant2 Emission





A.8 Duty Cycle

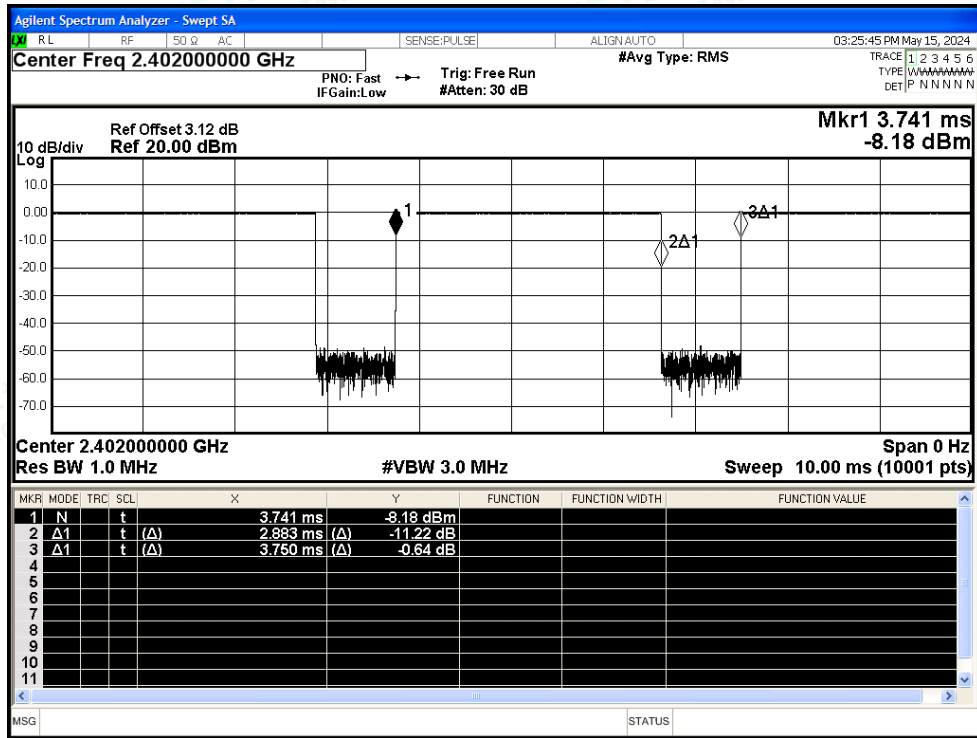
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant2	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant2	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant2	76.85	1.14	0.35
NVNT	2-DH5	2402	Ant2	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant2	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant2	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant2	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant2	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant2	77.01	1.13	0.35



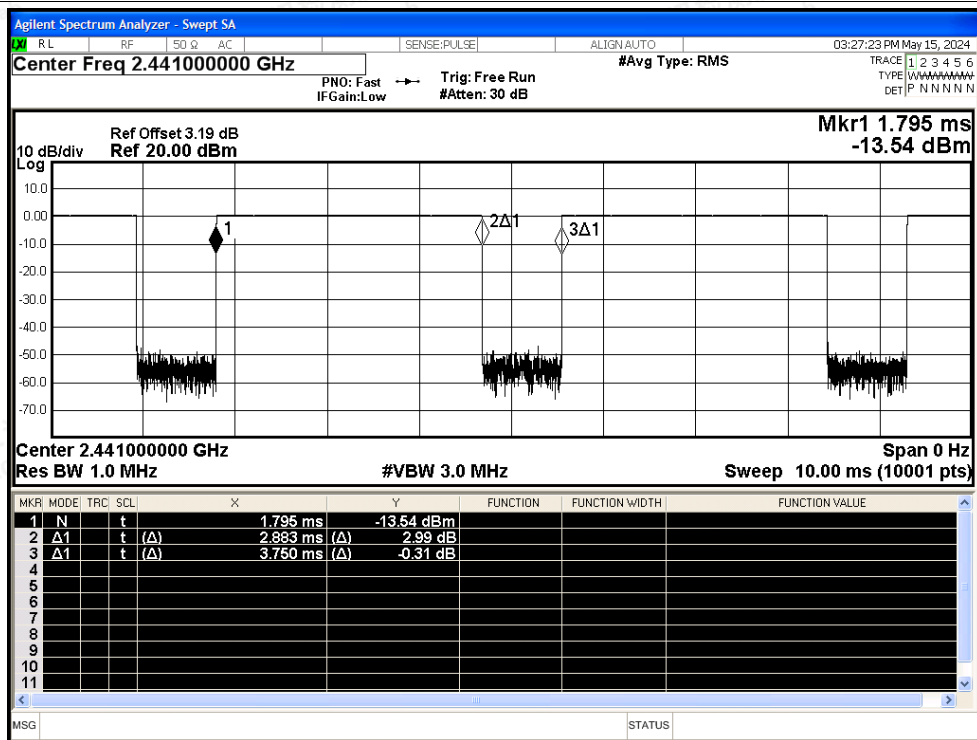


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant2

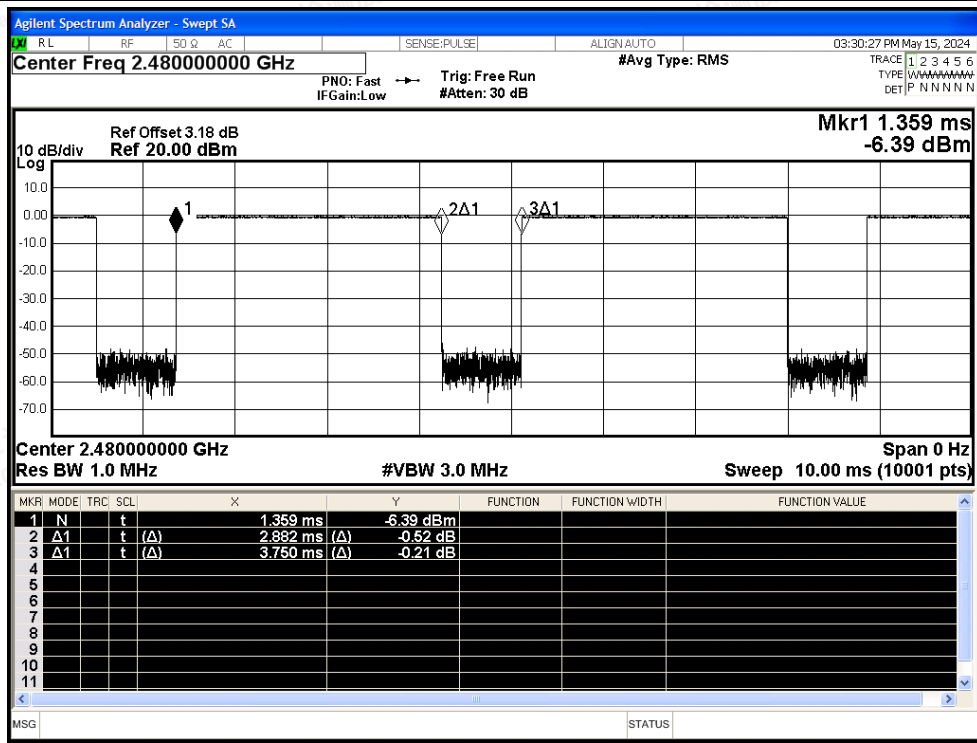


Duty Cycle NVNT 1-DH5 2441MHz Ant2

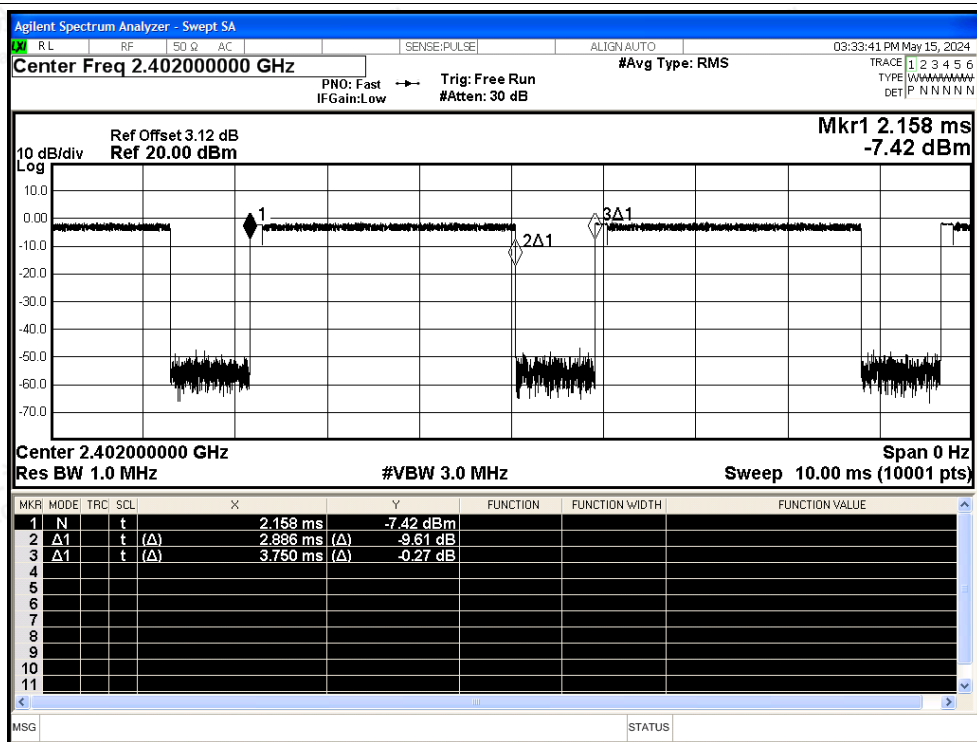




Duty Cycle NVNT 1-DH5 2480MHz Ant2

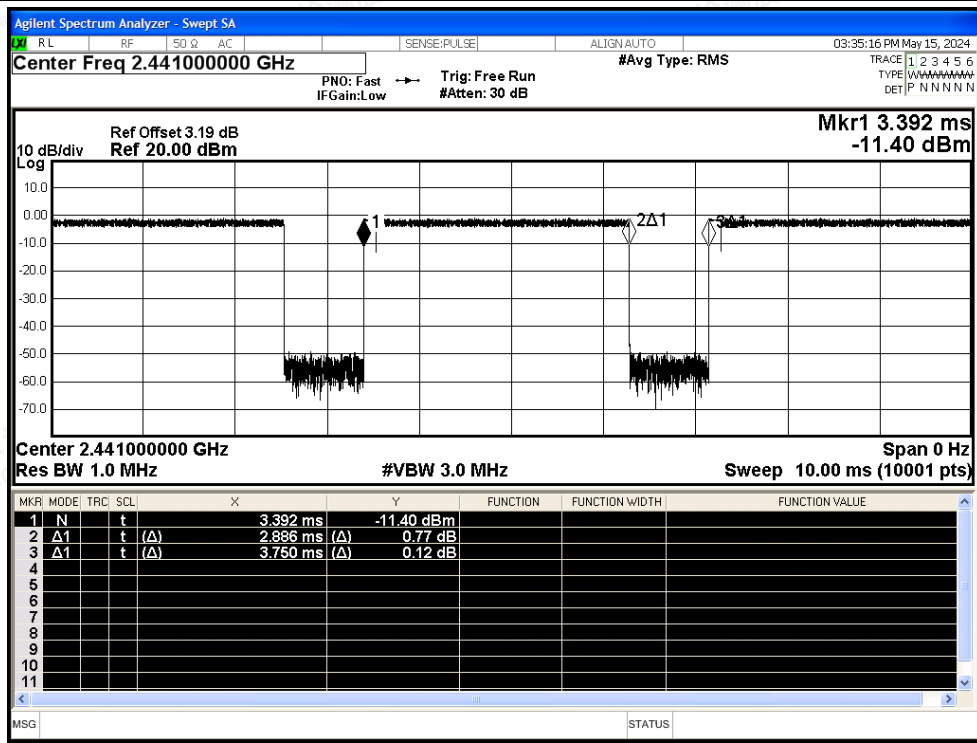


Duty Cycle NVNT 2-DH5 2402MHz Ant2

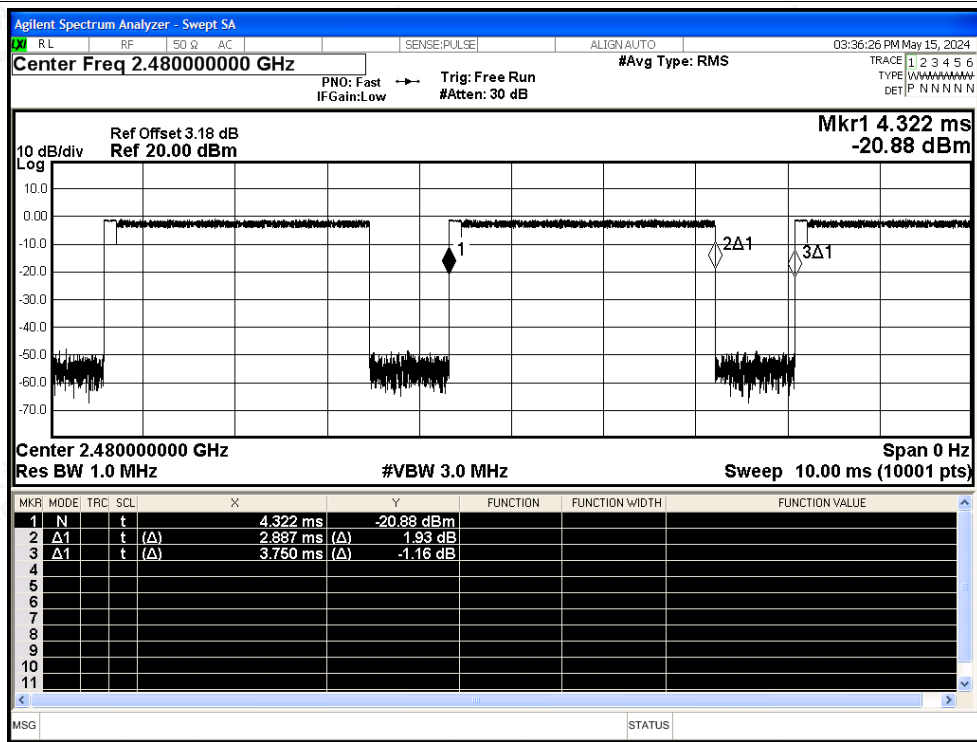




Duty Cycle NVNT 2-DH5 2441MHz Ant2

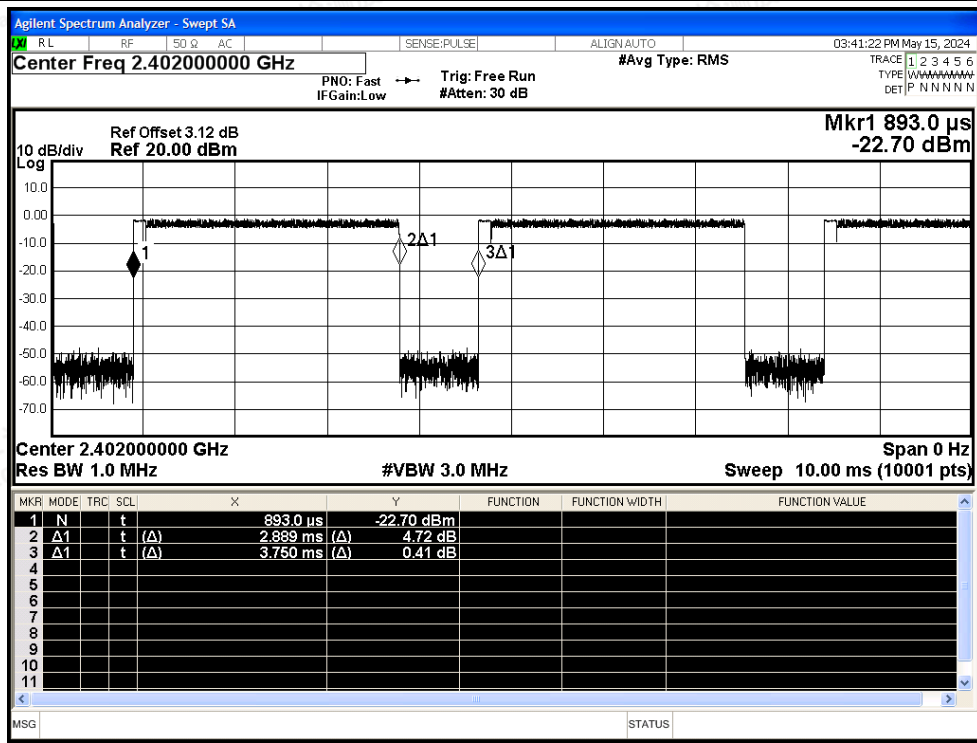


Duty Cycle NVNT 2-DH5 2480MHz Ant2

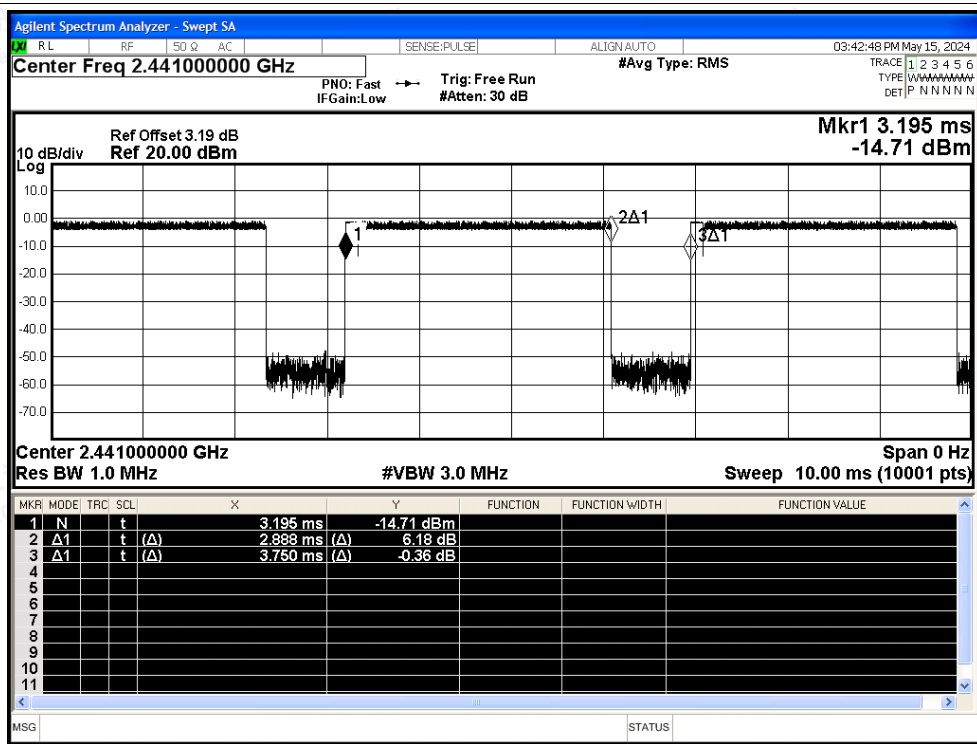


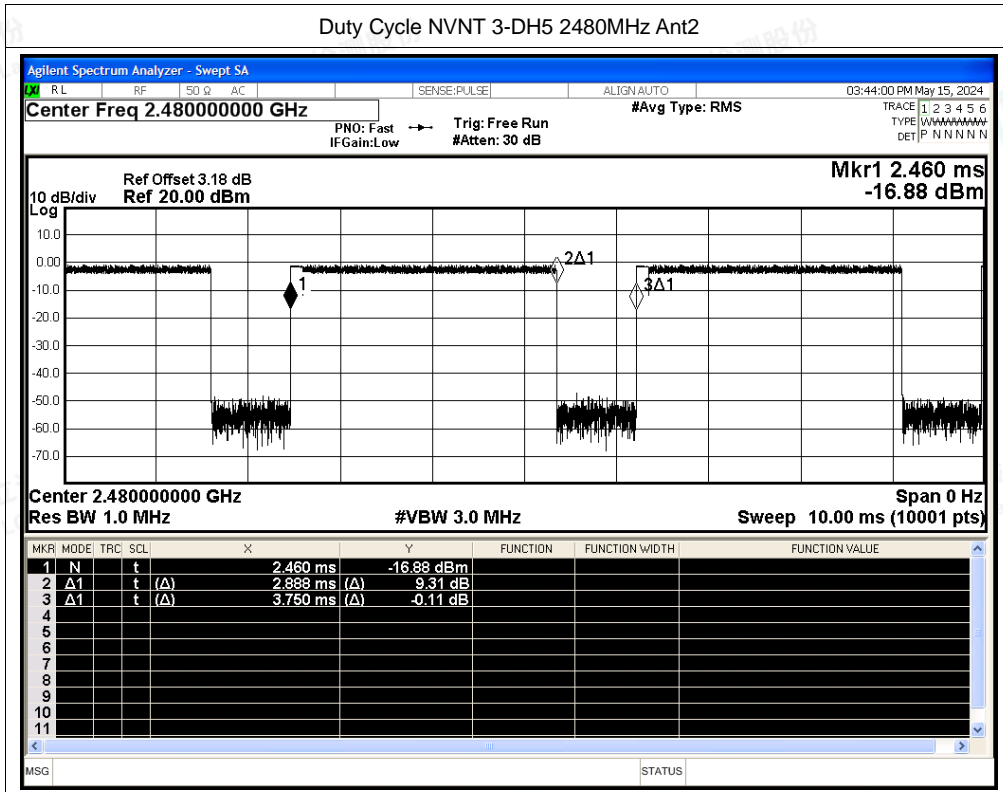


Duty Cycle NVNT 3-DH5 2402MHz Ant2



Duty Cycle NVNT 3-DH5 2441MHz Ant2







A.9 Restrict Band

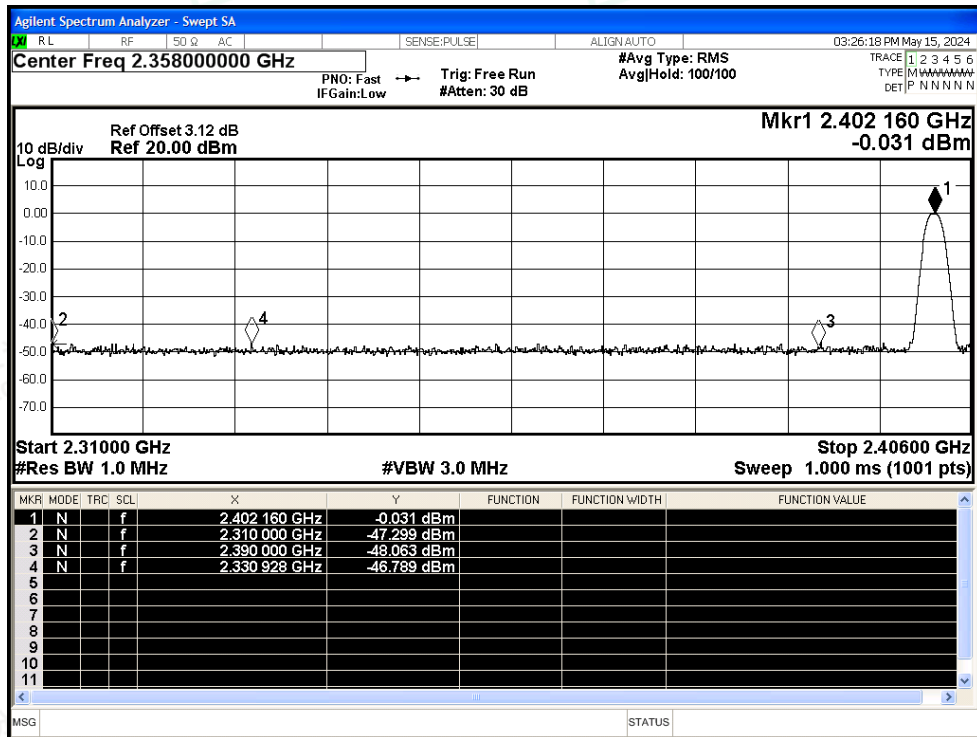
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant2	No-Hopping	2310	-47.3	2	-	49.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant2	No-Hopping	2310	-57.96	2	1.14	40.44	Average	54	Pass
NVNT	1-DH5	2402	Ant2	No-Hopping	2330.928	-46.79	2	-	50.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant2	No-Hopping	2359.056	-56.57	2	1.14	41.83	Average	54	Pass
NVNT	1-DH5	2402	Ant2	No-Hopping	2390	-48.06	2	-	49.2	Peak	74	Pass
NVNT	1-DH5	2402	Ant2	No-Hopping	2390	-57.24	2	1.14	41.16	Average	54	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2483.5	-49.26	2	-	48	Peak	74	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2483.5	-57.31	2	1.14	41.09	Average	54	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2489.104	-46.27	2	-	50.99	Peak	74	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2484.64	-56.18	2	1.14	42.22	Average	54	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2500	-46.68	2	-	50.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant2	No-Hopping	2500	-57.04	2	1.14	41.36	Average	54	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2310	-50.15	2	-	47.11	Peak	74	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2310	-57.68	2	1.14	40.72	Average	54	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2374.128	-46.07	2	-	51.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2353.008	-56.62	2	1.14	41.78	Average	54	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2390	-48.58	2	-	48.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant2	No-Hopping	2390	-57.42	2	1.14	40.98	Average	54	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2483.5	-47.98	2	-	49.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2483.5	-56.64	2	1.14	41.76	Average	54	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2487.376	-45.86	2	-	51.4	Peak	74	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2483.752	-56.02	2	1.14	42.38	Average	54	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2500	-47.95	2	-	49.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant2	No-Hopping	2500	-57.13	2	1.14	41.27	Average	54	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2310	-49.3	2	-	47.96	Peak	74	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2310	-57.39	2	1.13	41	Average	54	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2359.92	-45.78	2	-	51.48	Peak	74	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2384.304	-56.52	2	1.13	41.87	Average	54	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2390	-48.96	2	-	48.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant2	No-Hopping	2390	-57.41	2	1.13	40.98	Average	54	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2483.5	-49.08	2	-	48.18	Peak	74	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2483.5	-57.02	2	1.13	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2499.928	-45.96	2	-	51.3	Peak	74	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2487.112	-56.29	2	1.13	42.1	Average	54	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2500	-49.23	2	-	48.03	Peak	74	Pass
NVNT	3-DH5	2480	Ant2	No-Hopping	2500	-56.97	2	1.13	41.42	Average	54	Pass



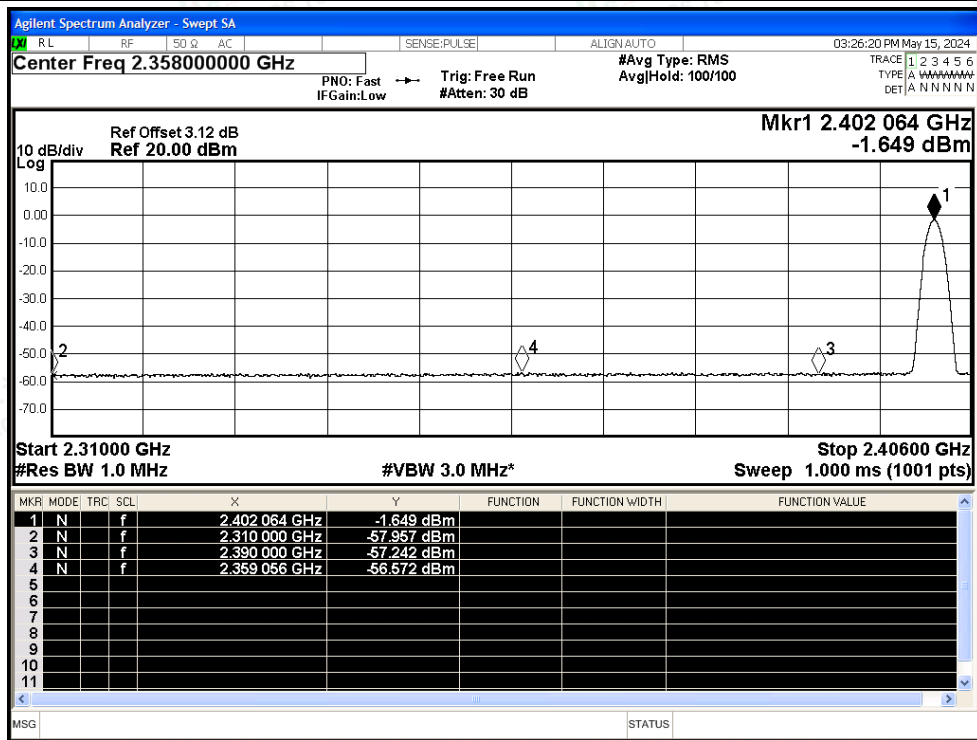


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant2 No-Hopping Peak

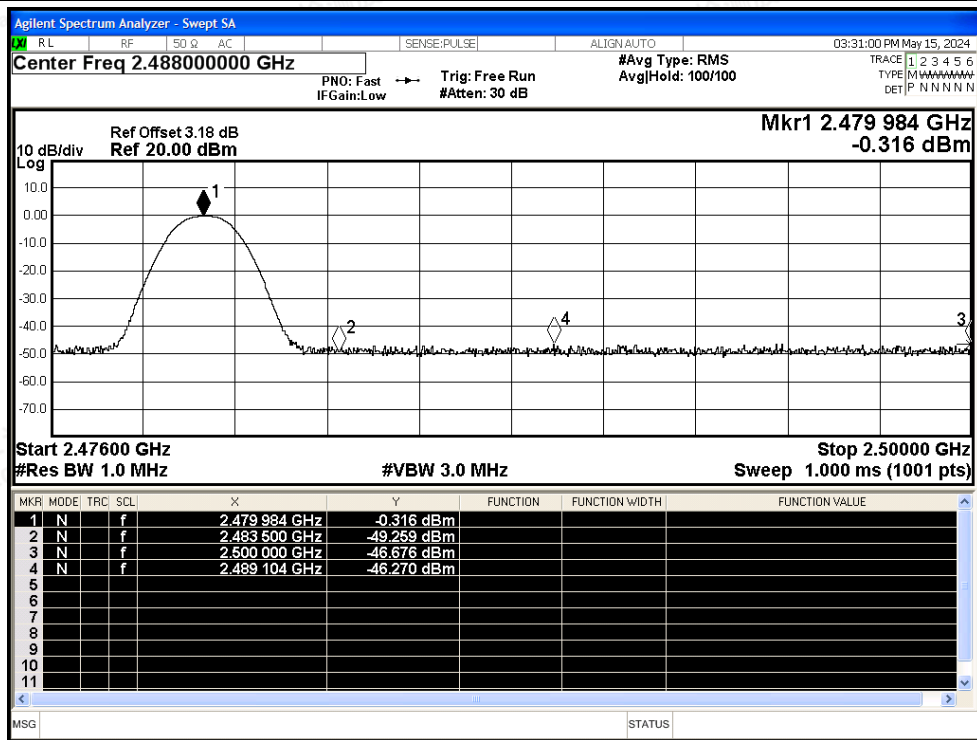


Restrict Band NVNT 1-DH5 2402MHz Ant2 No-Hopping Average

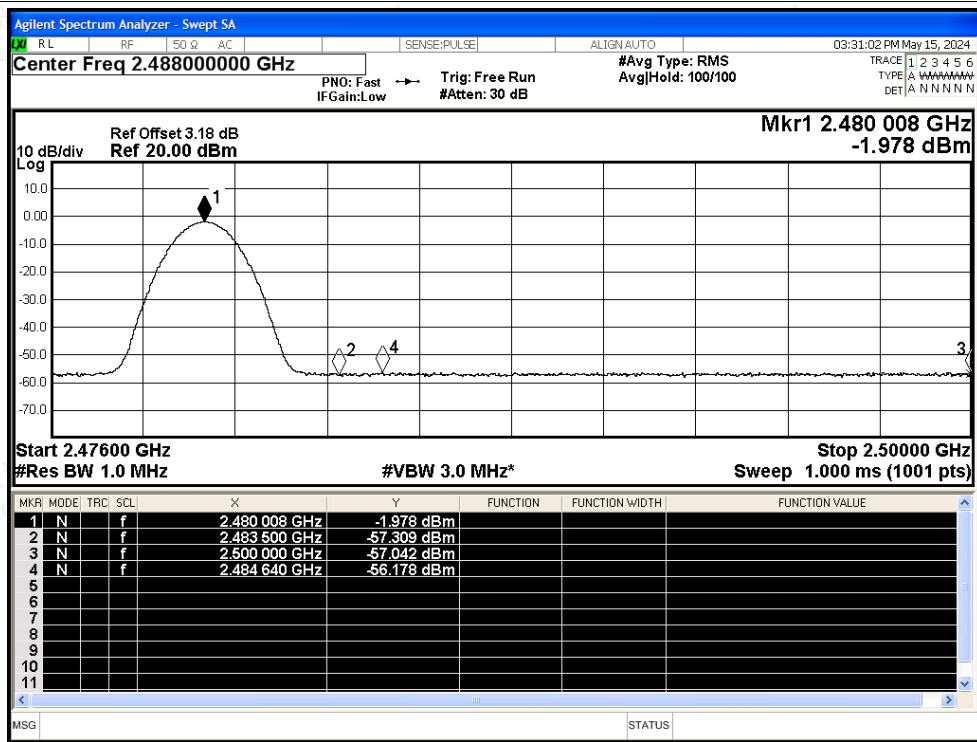




Restrict Band NVNT 1-DH5 2480MHz Ant2 No-Hopping Peak

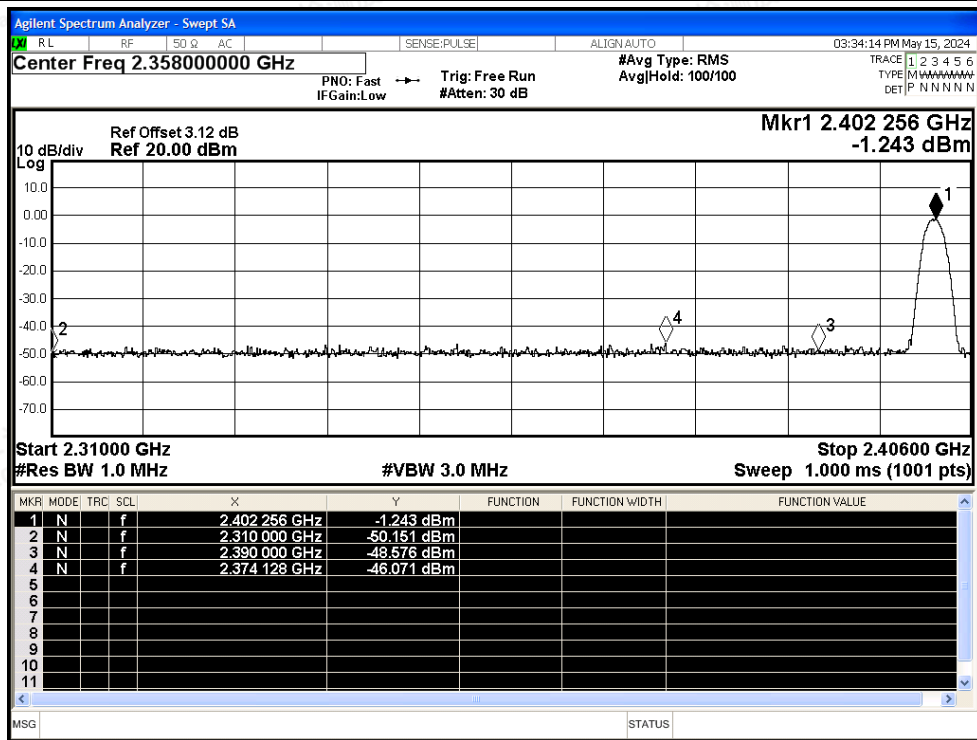


Restrict Band NVNT 1-DH5 2480MHz Ant2 No-Hopping Average

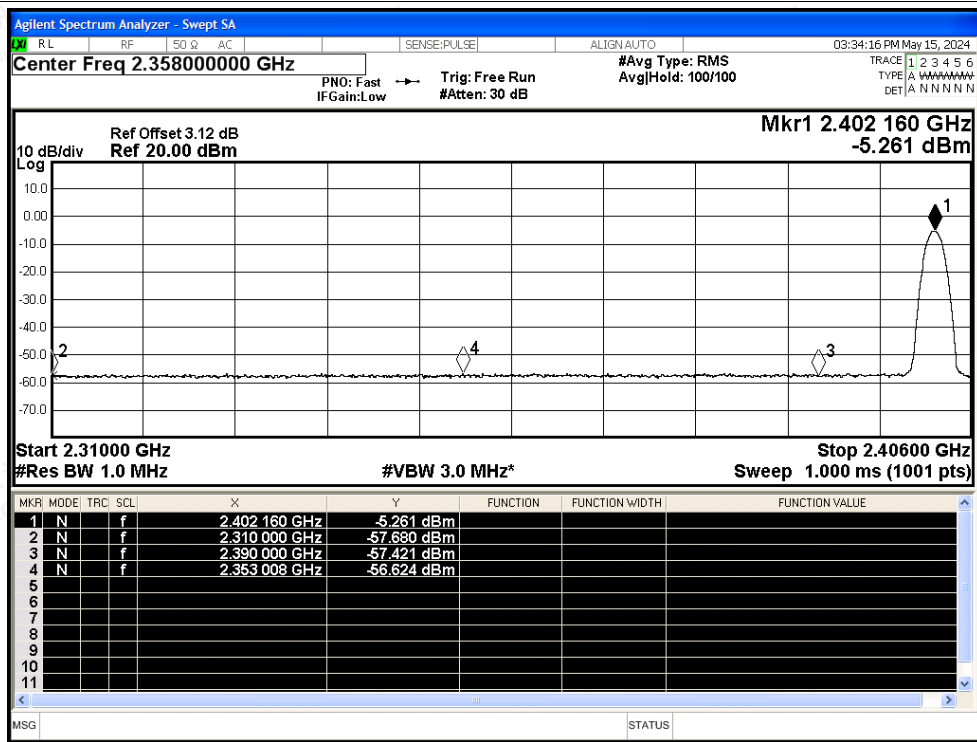




Restrict Band NVNT 2-DH5 2402MHz Ant2 No-Hopping Peak

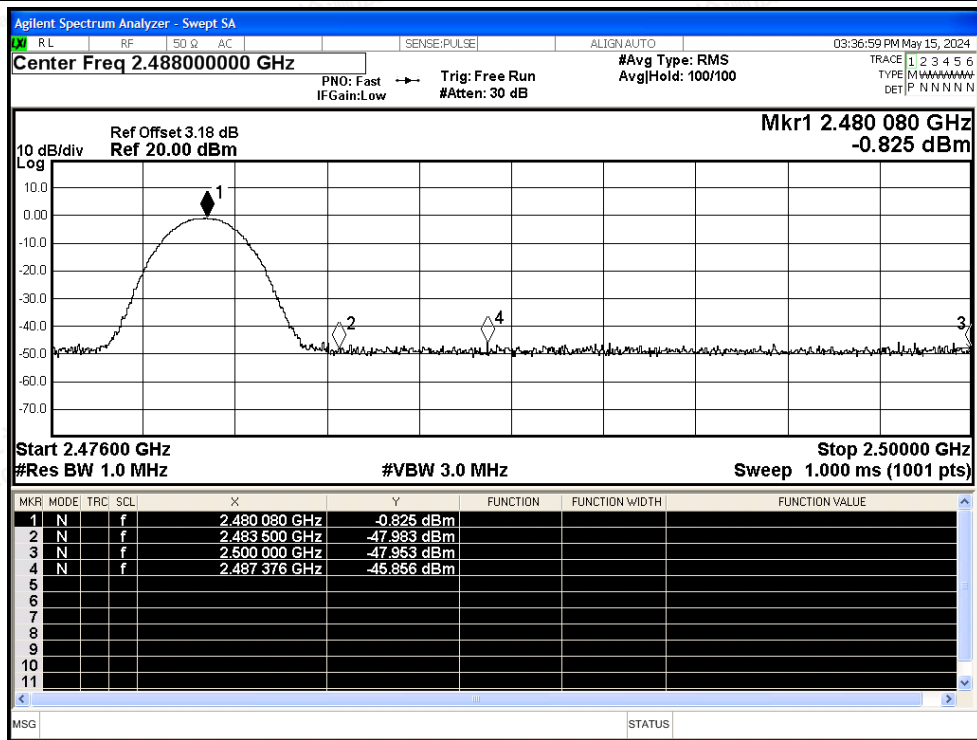


Restrict Band NVNT 2-DH5 2402MHz Ant2 No-Hopping Average

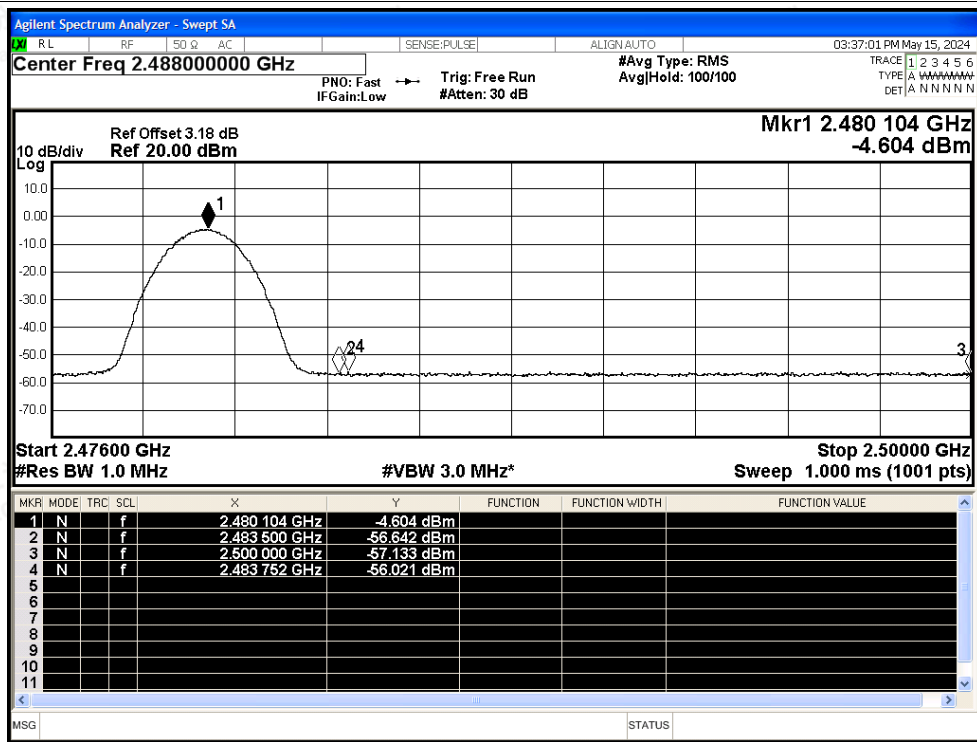




Restrict Band NVNT 2-DH5 2480MHz Ant2 No-Hopping Peak

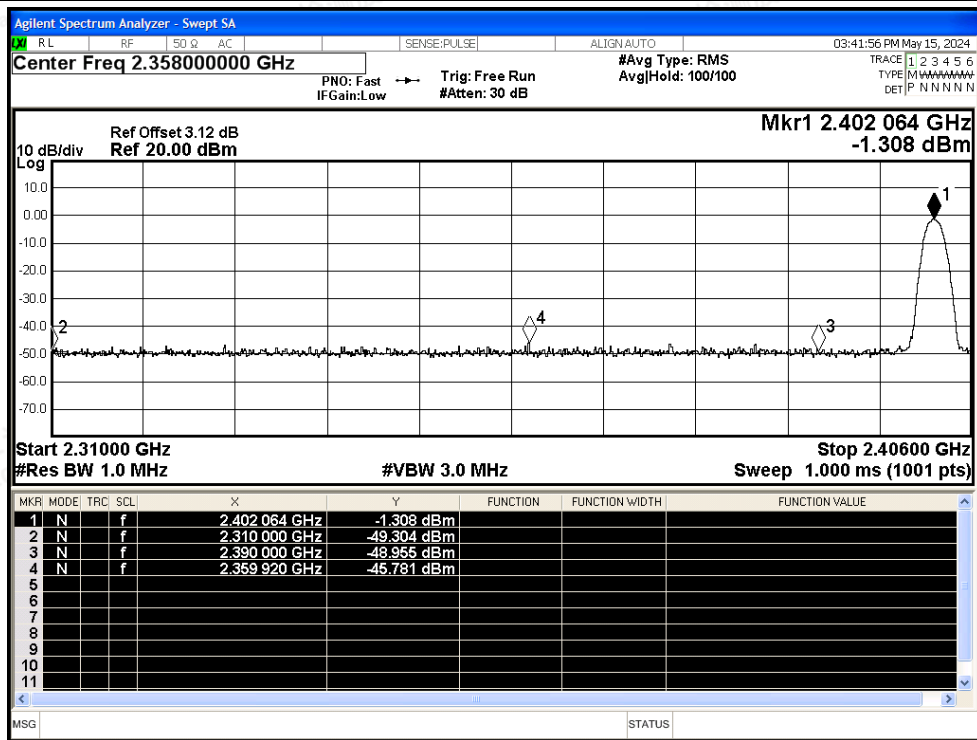


Restrict Band NVNT 2-DH5 2480MHz Ant2 No-Hopping Average

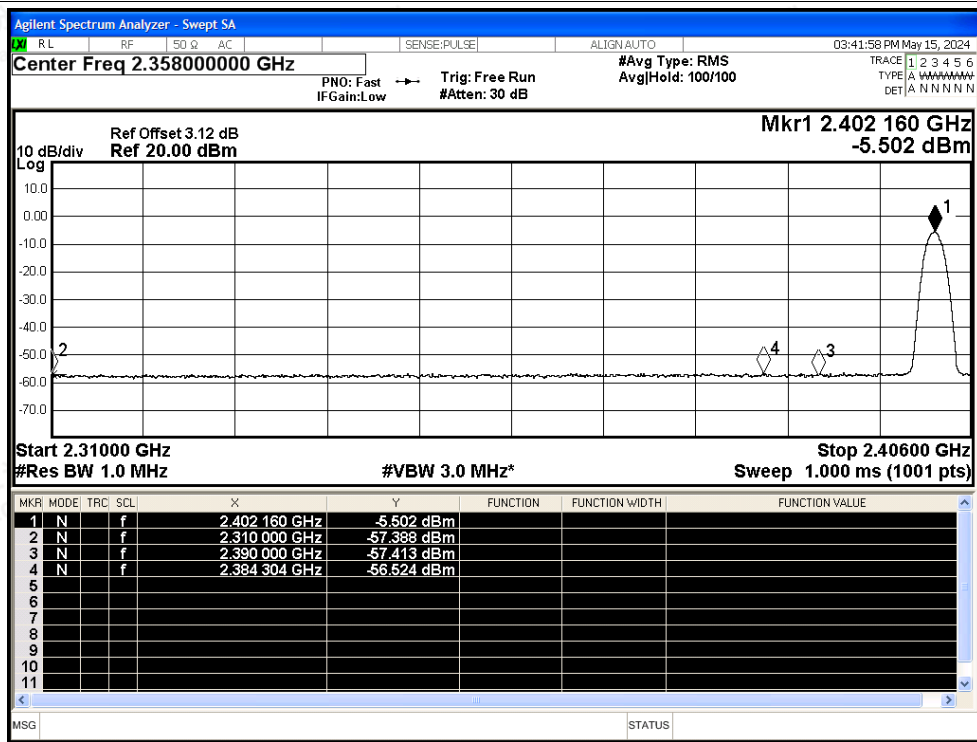




Restrict Band NVNT 3-DH5 2402MHz Ant2 No-Hopping Peak

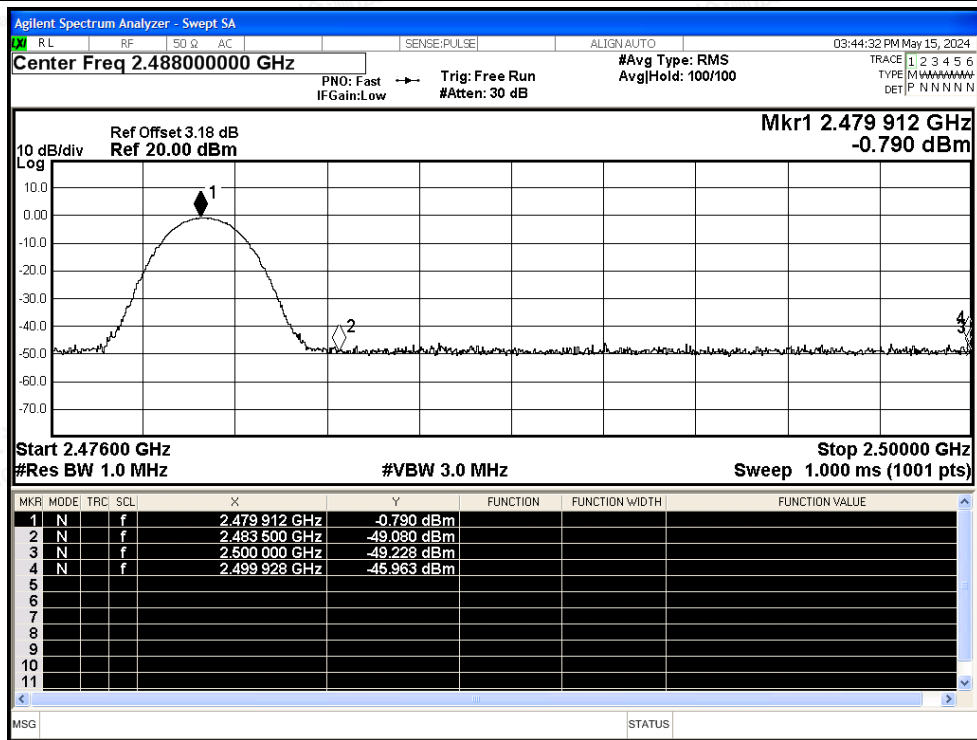


Restrict Band NVNT 3-DH5 2402MHz Ant2 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant2 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant2 No-Hopping Average

