Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart camping screen

Test Model: Portable S

Environmental Conditions

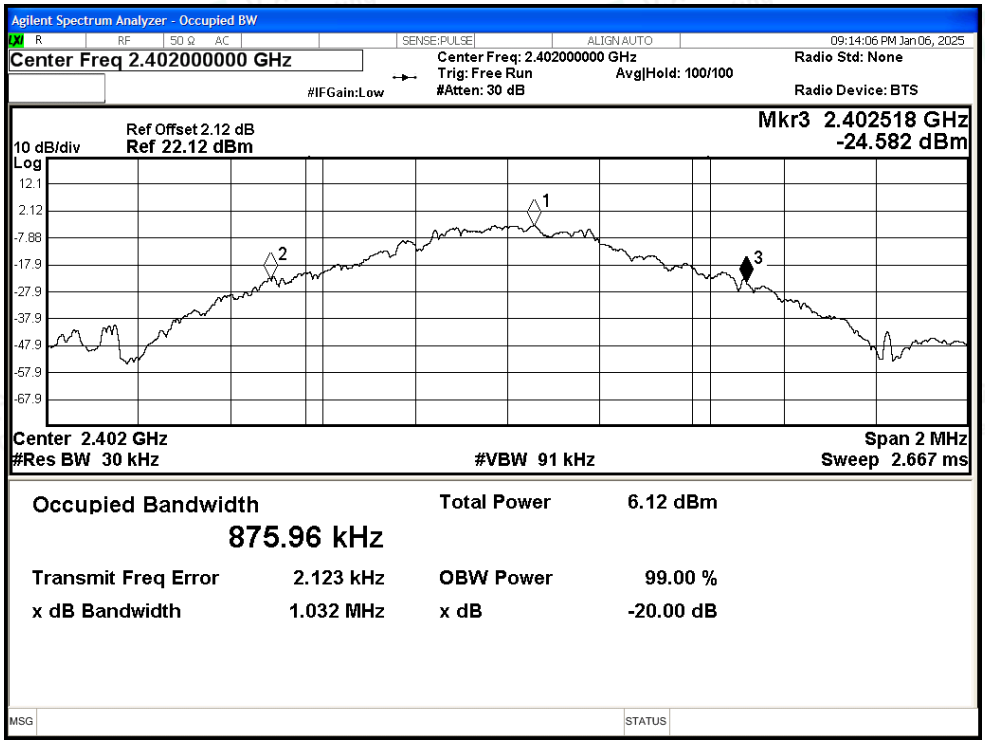
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

A.1 -20dB Bandwidth

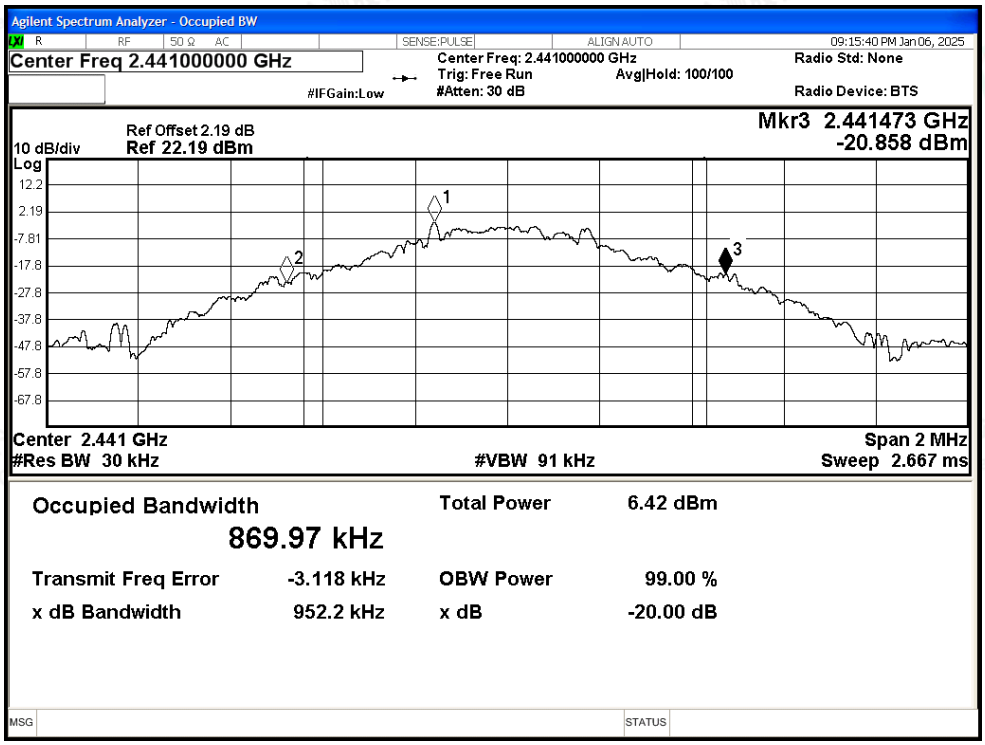
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant3	1.032	N/A	Pass
NVNT	1-DH5	2441	Ant3	0.952	N/A	Pass
NVNT	1-DH5	2480	Ant3	0.955	N/A	Pass
NVNT	2-DH5	2402	Ant3	1.317	N/A	Pass
NVNT	2-DH5	2441	Ant3	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant3	1.33	N/A	Pass
NVNT	3-DH5	2402	Ant3	1.306	N/A	Pass
NVNT	3-DH5	2441	Ant3	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant3	1.305	N/A	Pass

Test Graphs

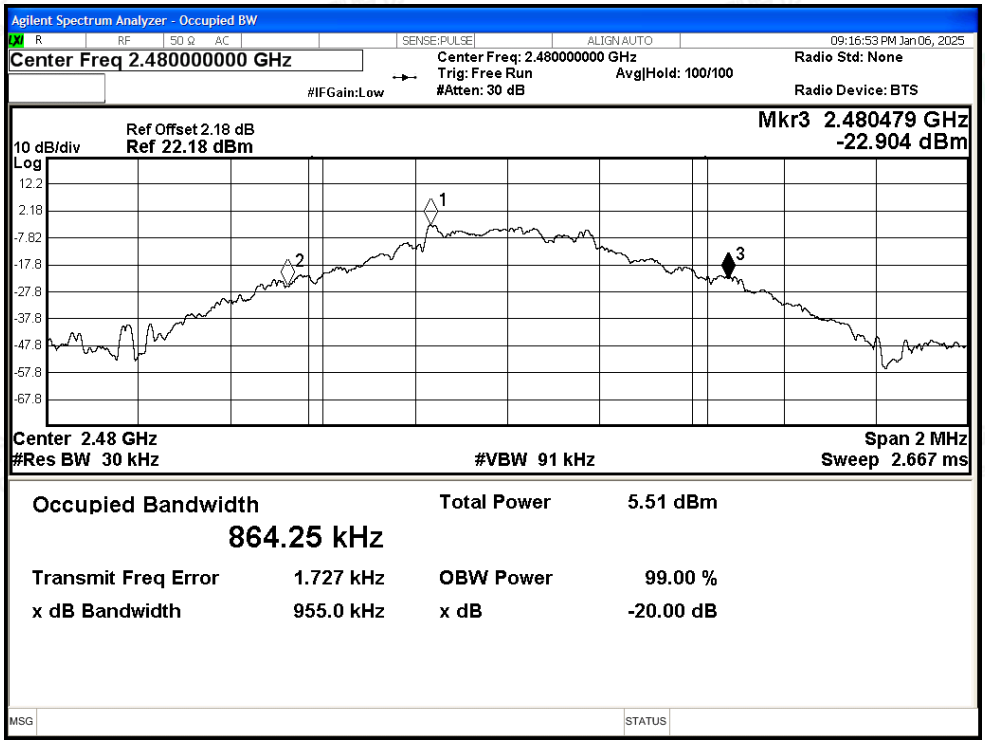
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant3



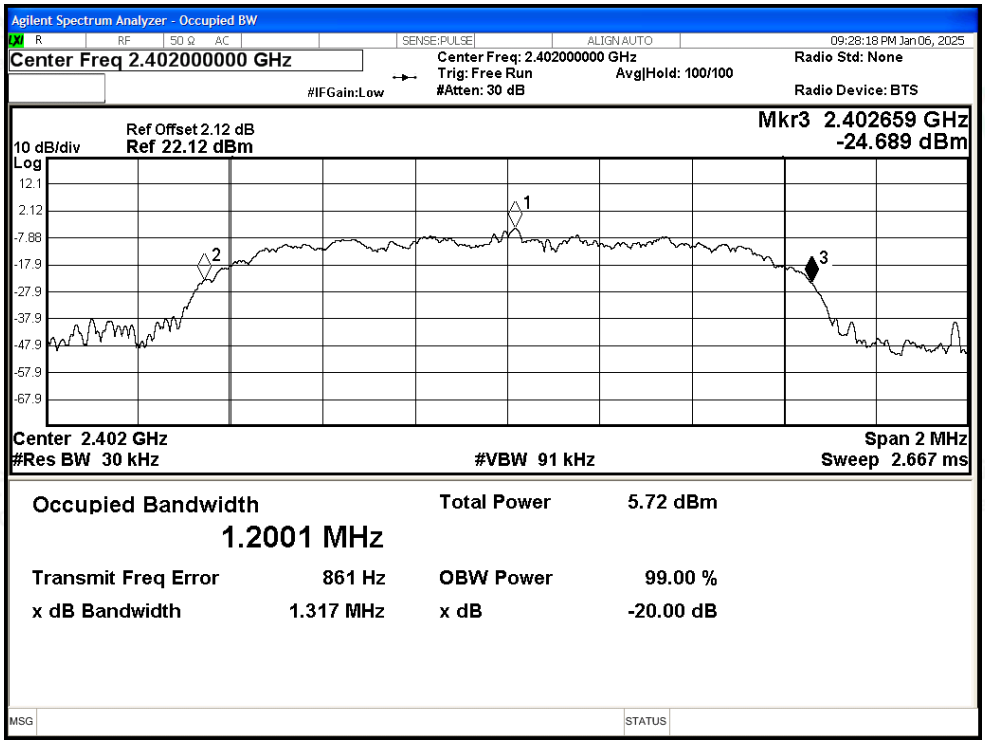
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant3



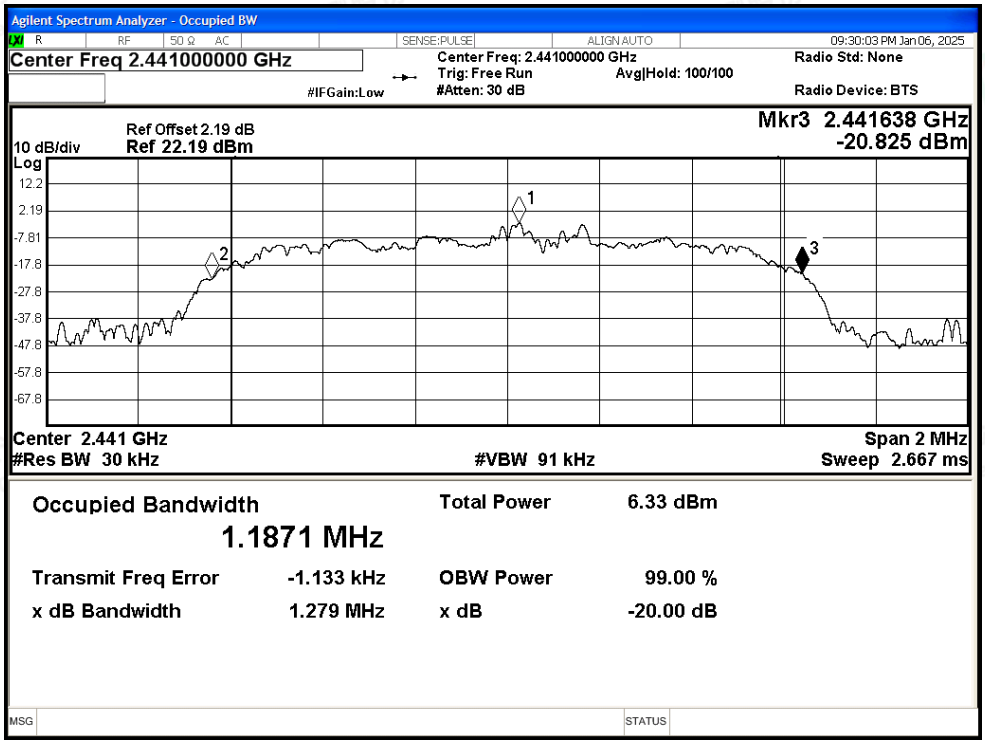
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant3



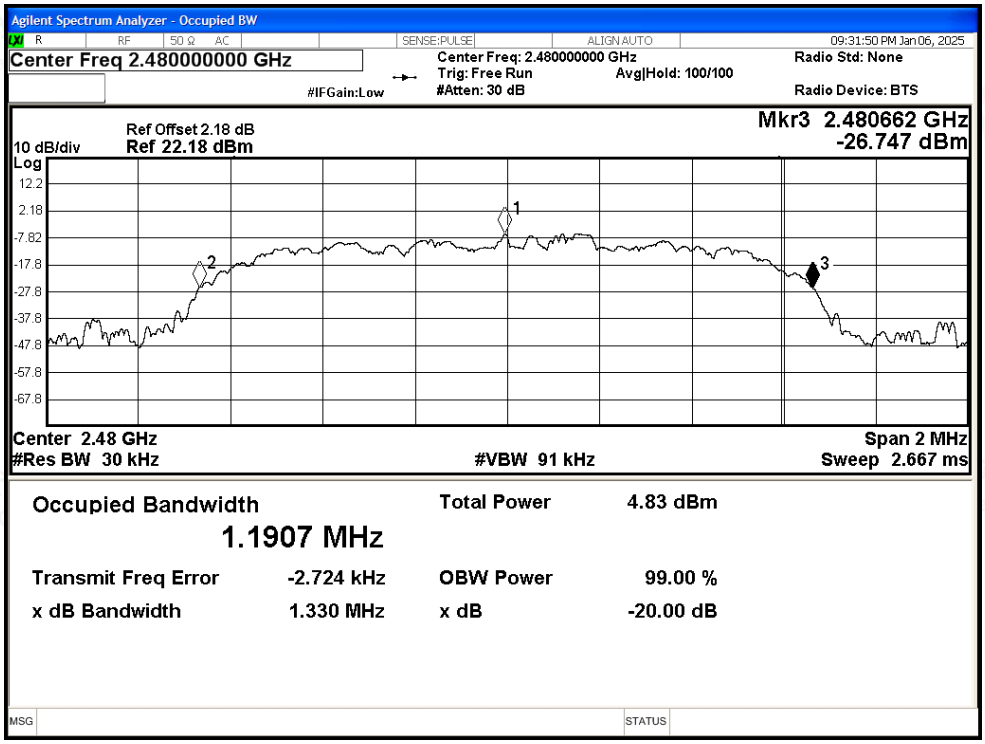
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant3



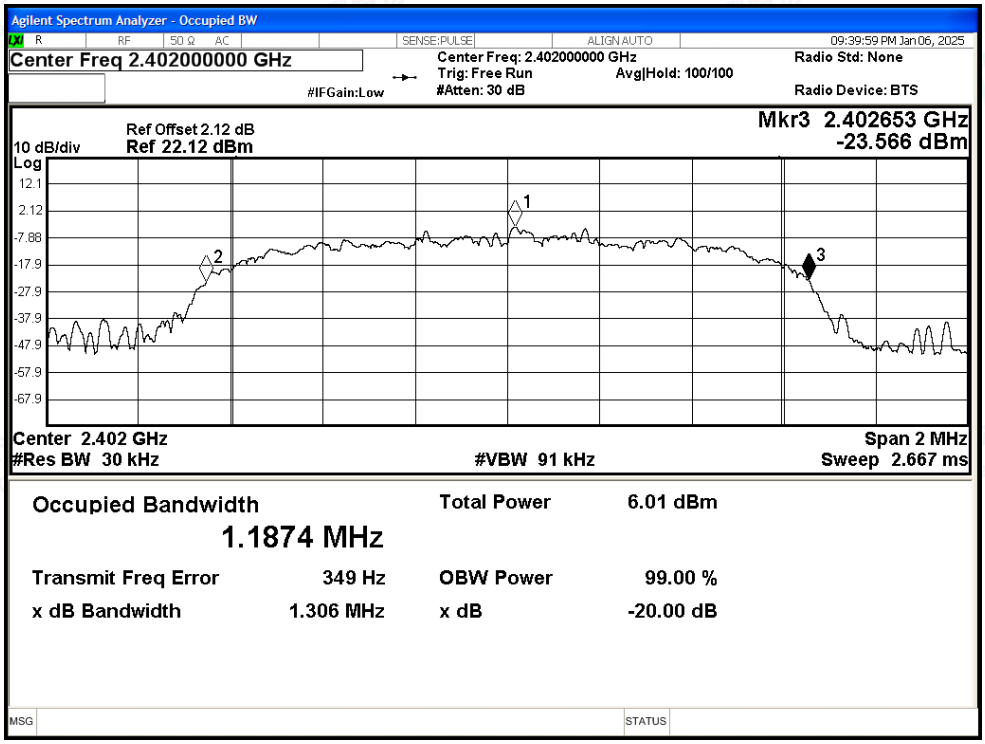
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant3



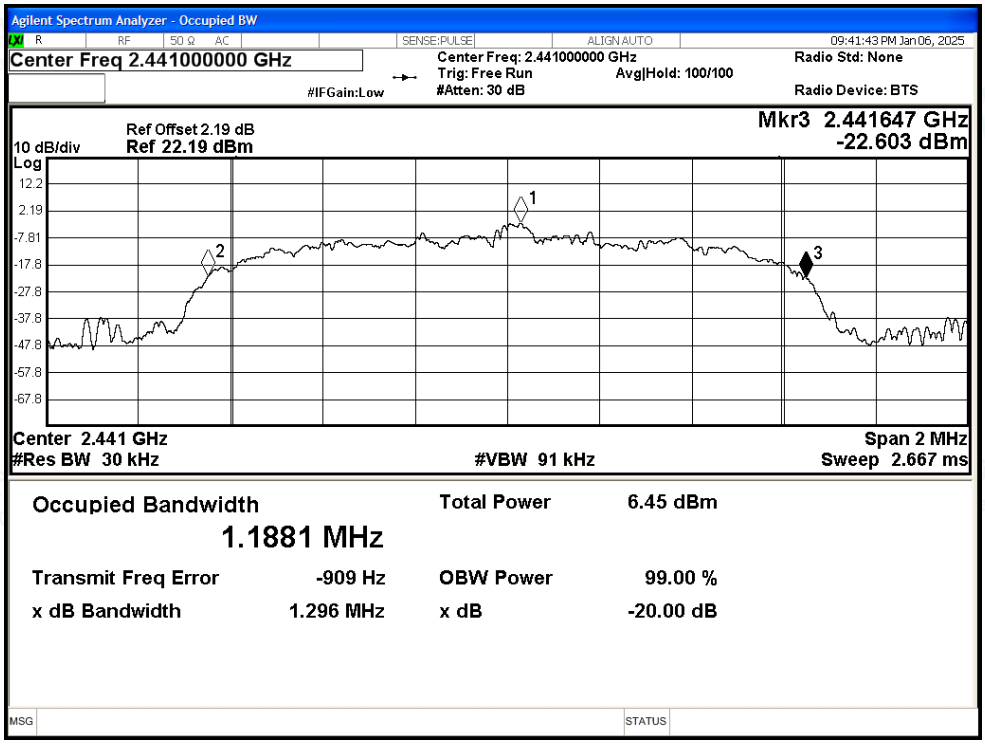
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant3



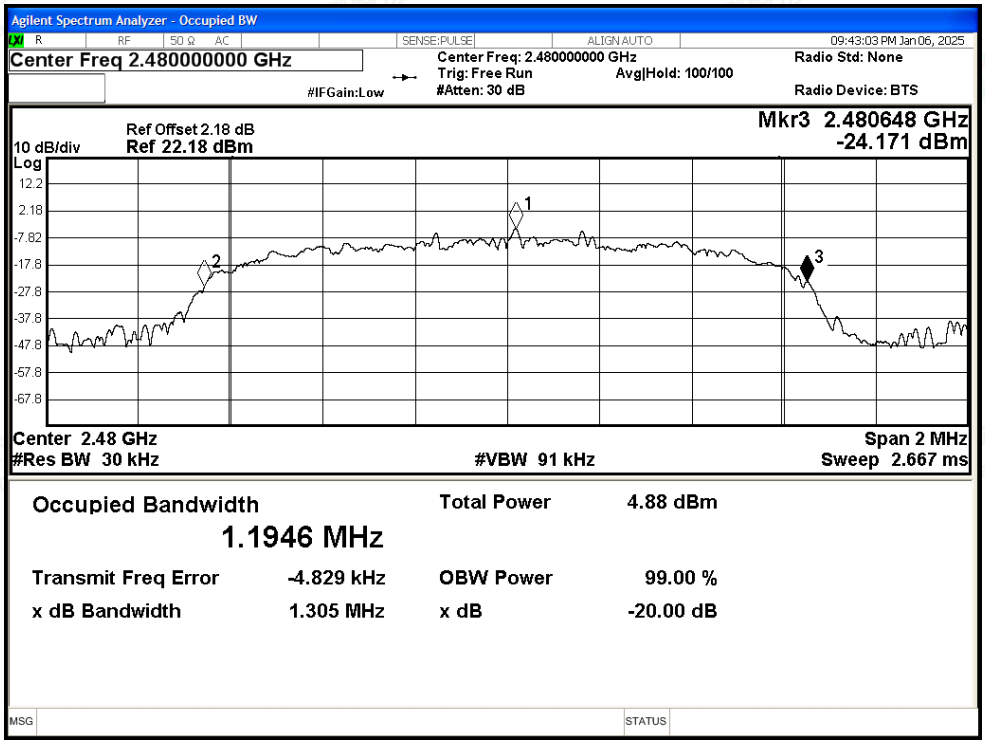
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant3



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant3



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant3

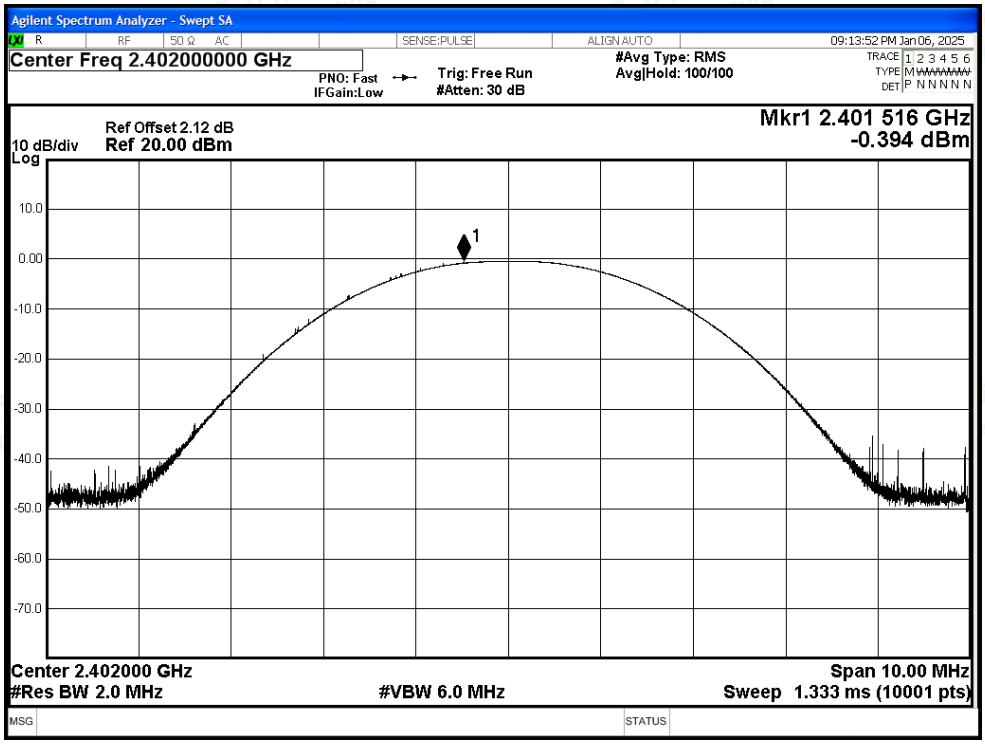


A.2 Maximum Peak Conducted Output Power

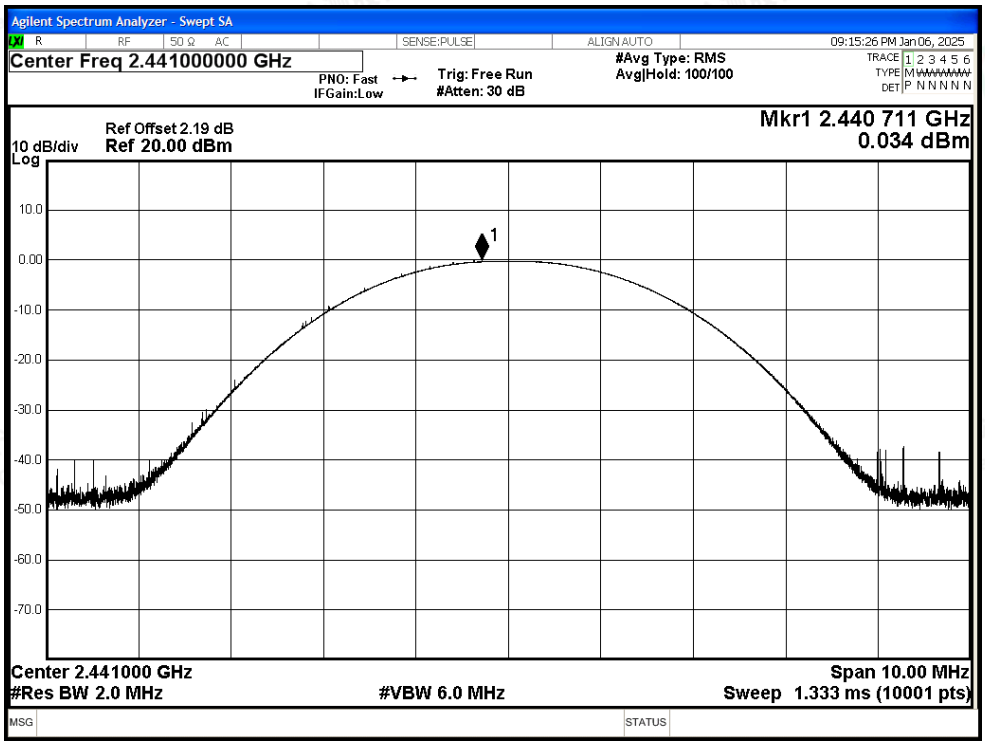
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant3	-0.39	21	Pass
NVNT	1-DH5	2441	Ant3	0.03	21	Pass
NVNT	1-DH5	2480	Ant3	-1.14	21	Pass
NVNT	2-DH5	2402	Ant3	1.85	21	Pass
NVNT	2-DH5	2441	Ant3	1.9	21	Pass
NVNT	2-DH5	2480	Ant3	0.63	21	Pass
NVNT	3-DH5	2402	Ant3	2.16	21	Pass
NVNT	3-DH5	2441	Ant3	2.35	21	Pass
NVNT	3-DH5	2480	Ant3	1.05	21	Pass

Test Graphs

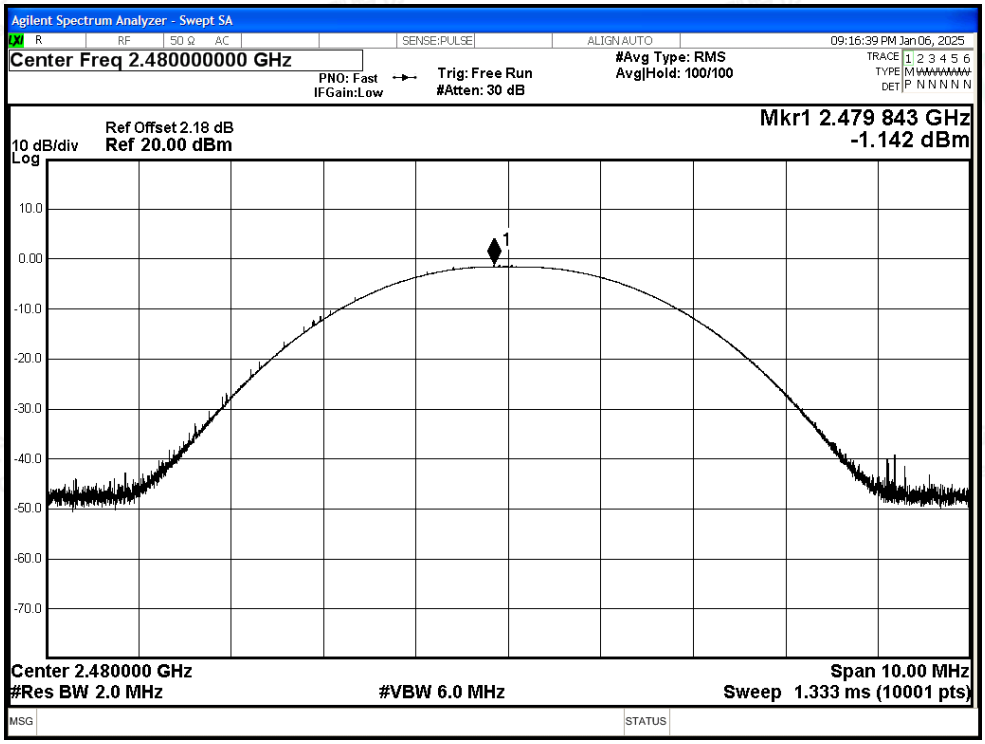
Power NVNT 1-DH5 2402MHz Ant3



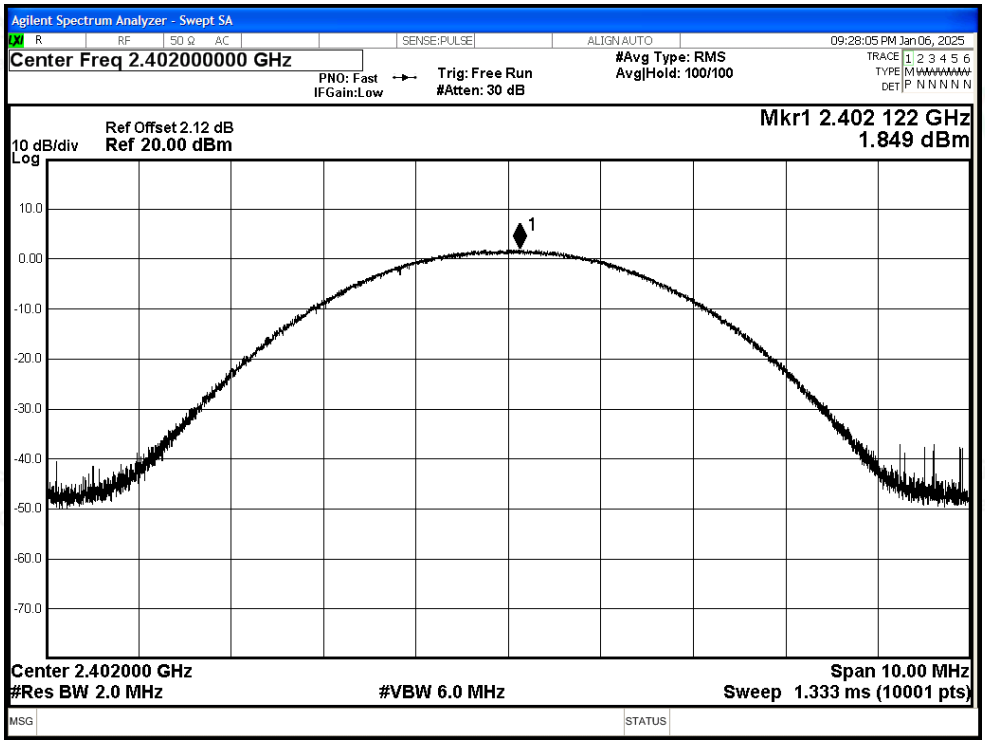
Power NVNT 1-DH5 2441MHz Ant3



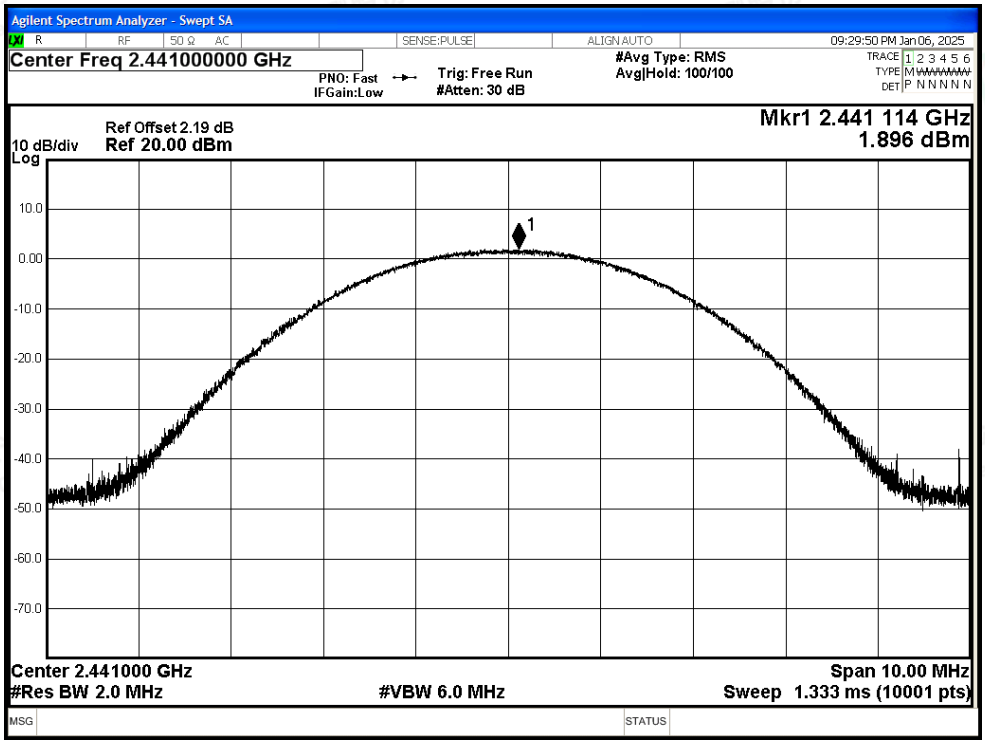
Power NVNT 1-DH5 2480MHz Ant3



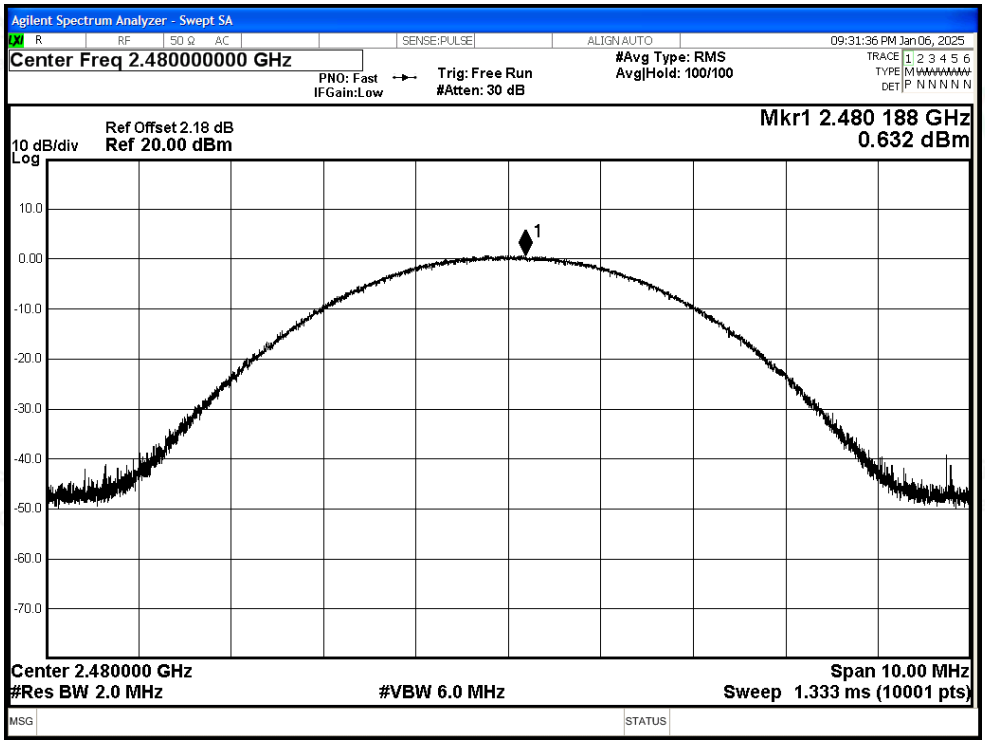
Power NVNT 2-DH5 2402MHz Ant3



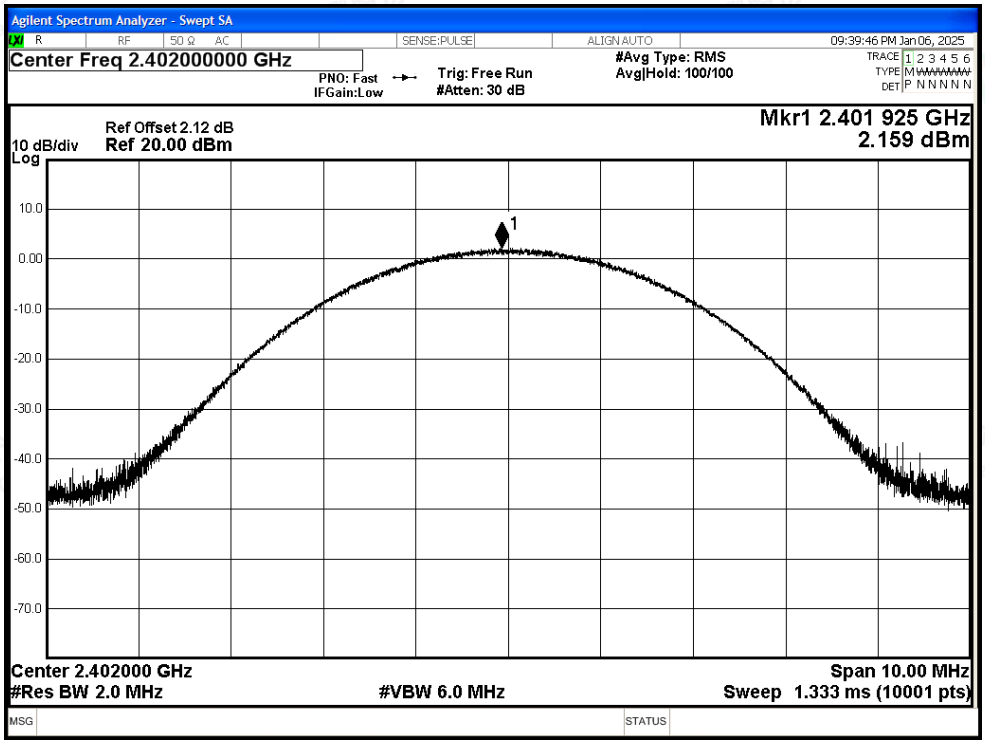
Power NVNT 2-DH5 2441MHz Ant3



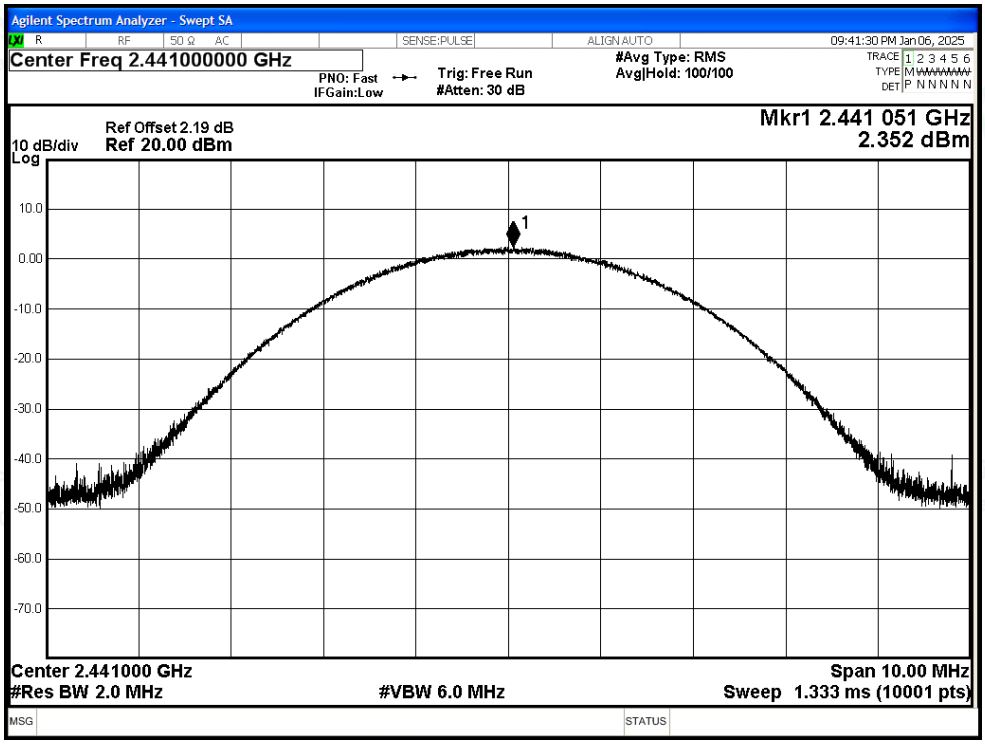
Power NVNT 2-DH5 2480MHz Ant3



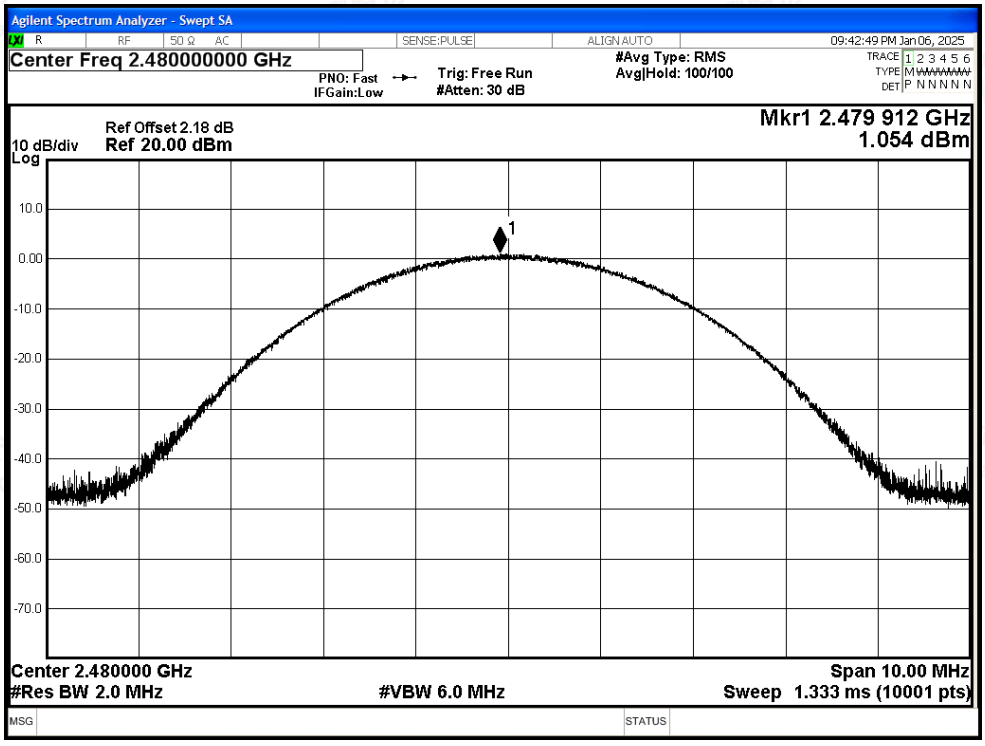
Power NVNT 3-DH5 2402MHz Ant3



Power NVNT 3-DH5 2441MHz Ant3



Power NVNT 3-DH5 2480MHz Ant3

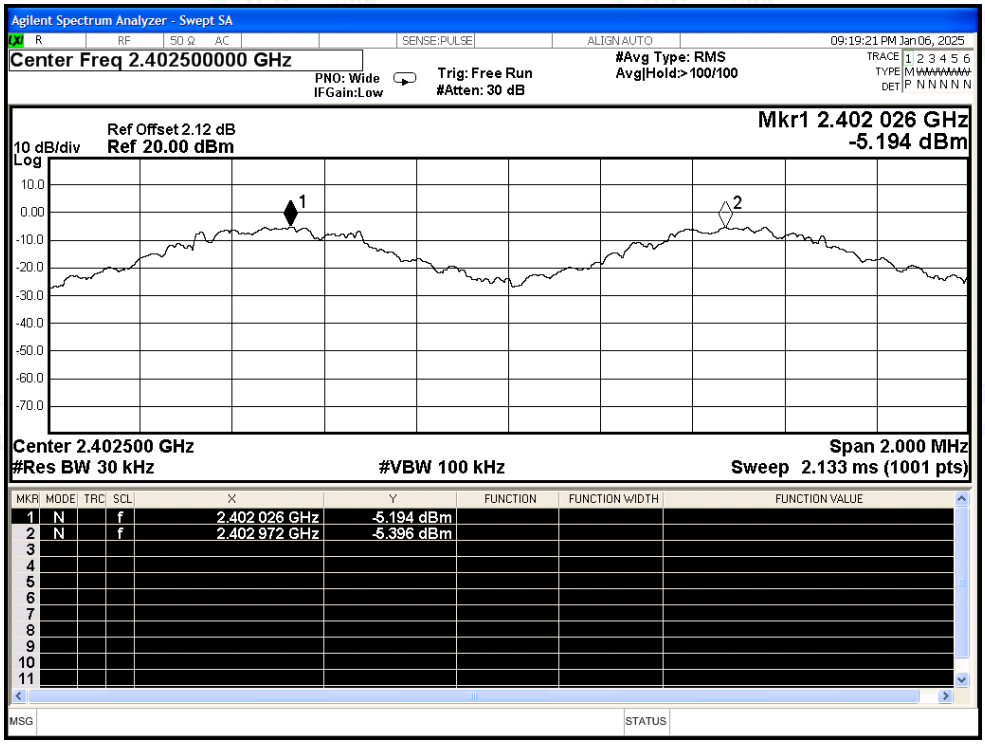


A.3 Carrier Frequencies Separation

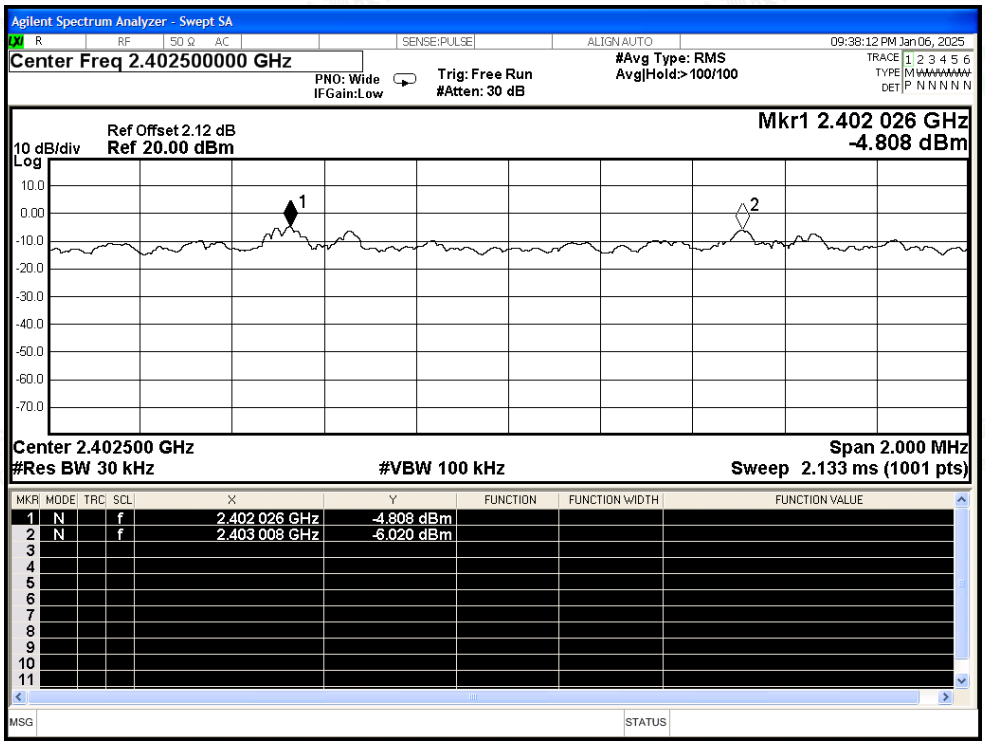
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant3	2402.026	2402.972	0.946	0.688	Pass
NVNT	2-DH5	Ant3	2402.026	2403.008	0.982	0.887	Pass
NVNT	3-DH5	Ant3	2402.018	2403.024	1.006	0.871	Pass

Test Graphs

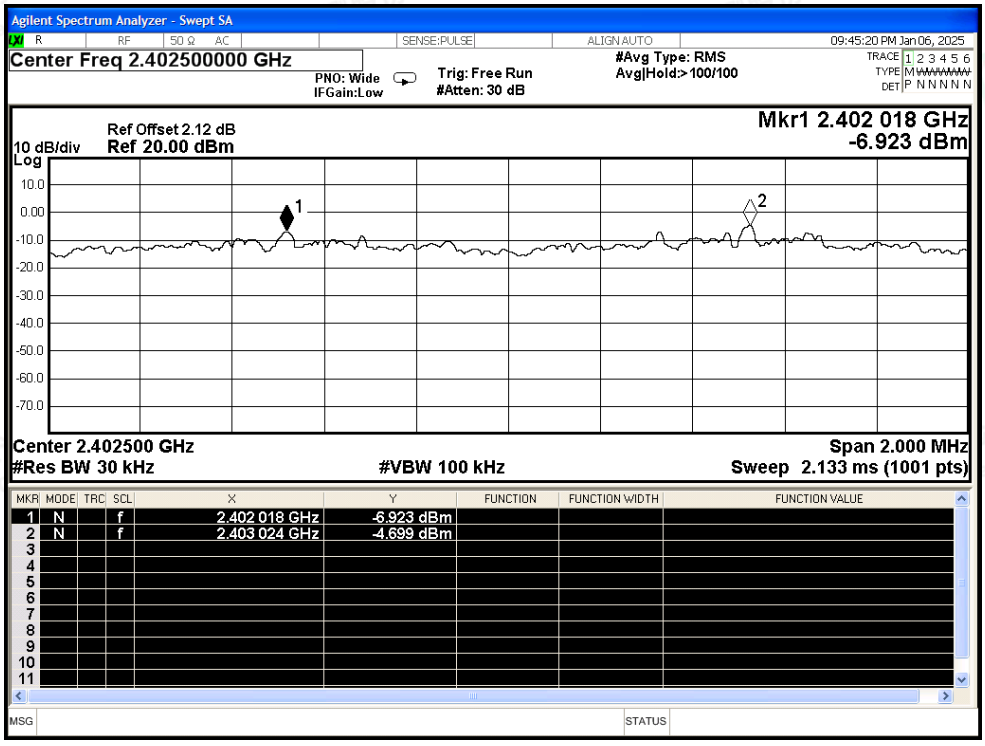
CFS NVNT 1-DH5 2402MHz Ant3



CFS NVNT 2-DH5 2402MHz Ant3



CFS NVNT 3-DH5 2402MHz Ant3

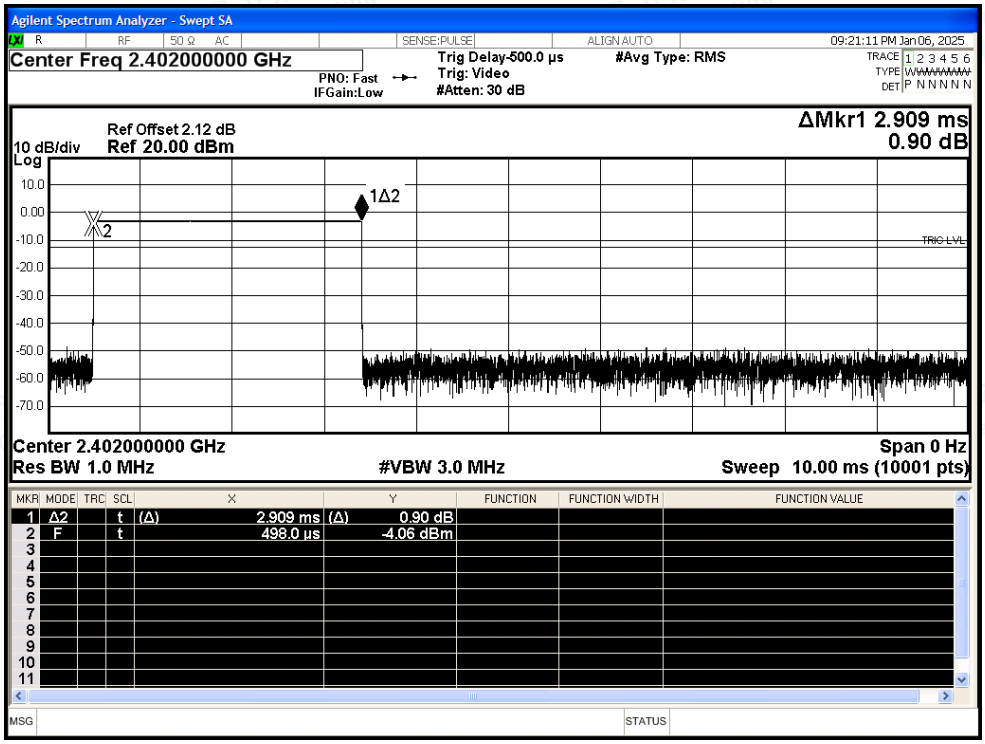


A.4 Dwell Time

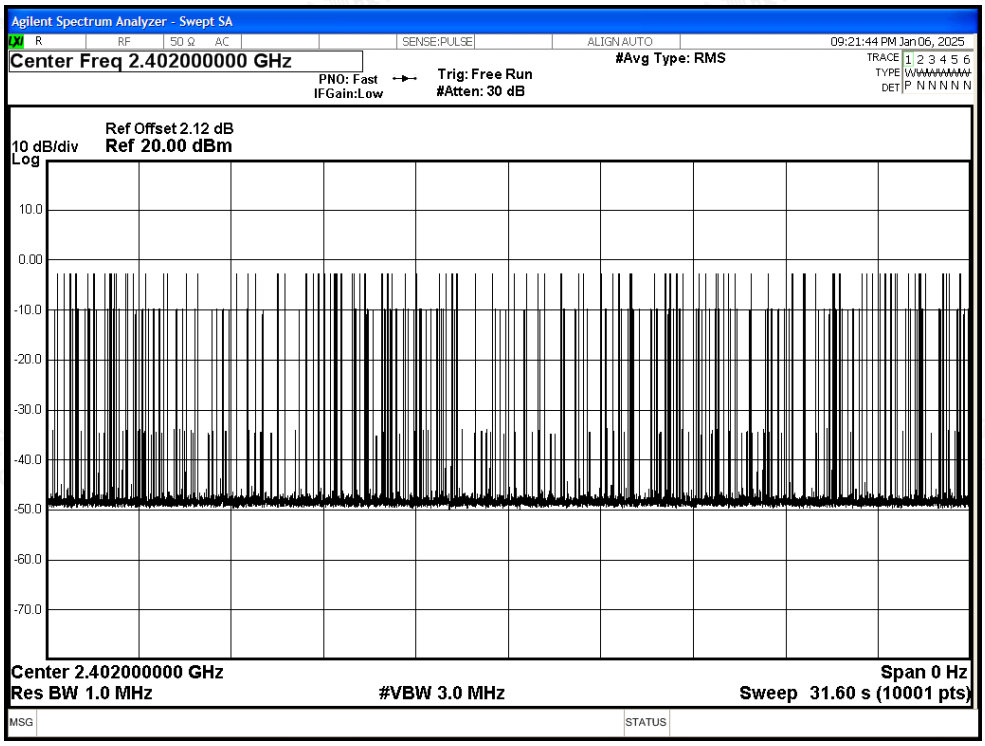
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant3	2.909	337.444	116	31600	400	Pass
NVNT	2-DH5	2402	Ant3	2.898	304.29	105	31600	400	Pass
NVNT	3-DH5	2402	Ant3	2.897	333.155	115	31600	400	Pass

Test Graphs

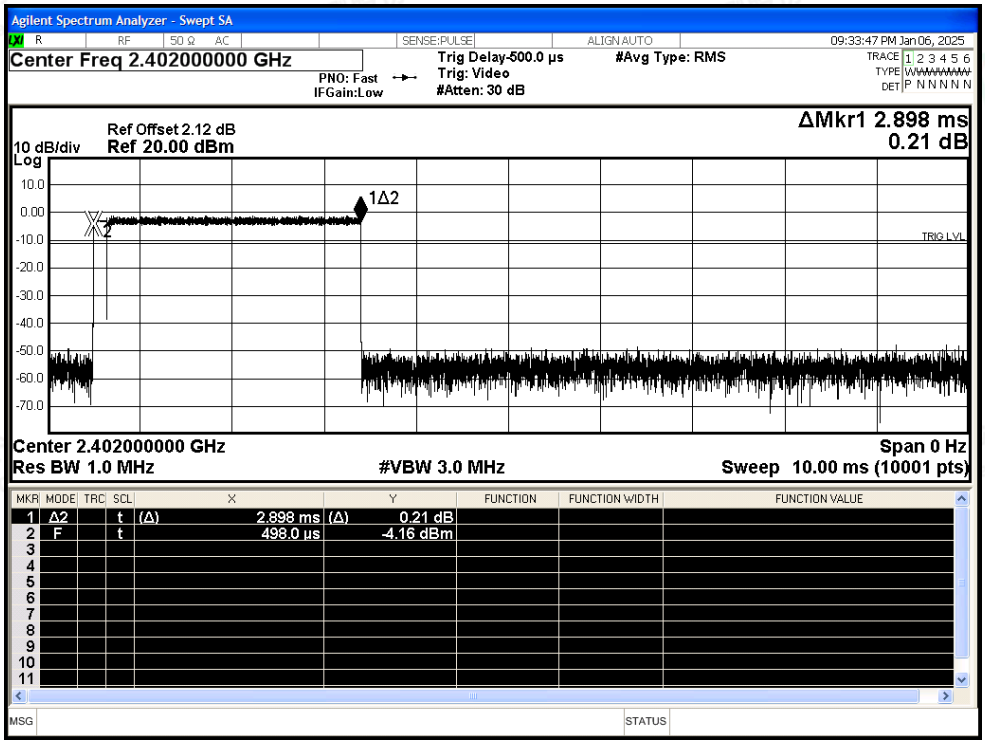
Dwell NVNT 1-DH5 2402MHz Ant3 One Burst



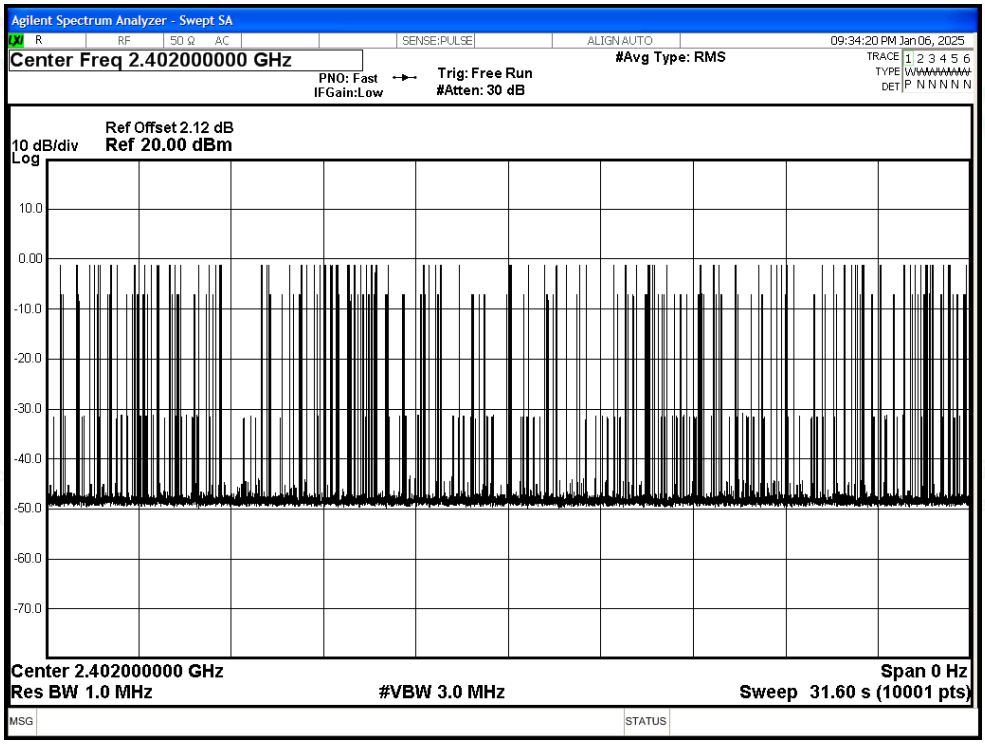
Dwell NVNT 1-DH5 2402MHz Ant3 Accumulated



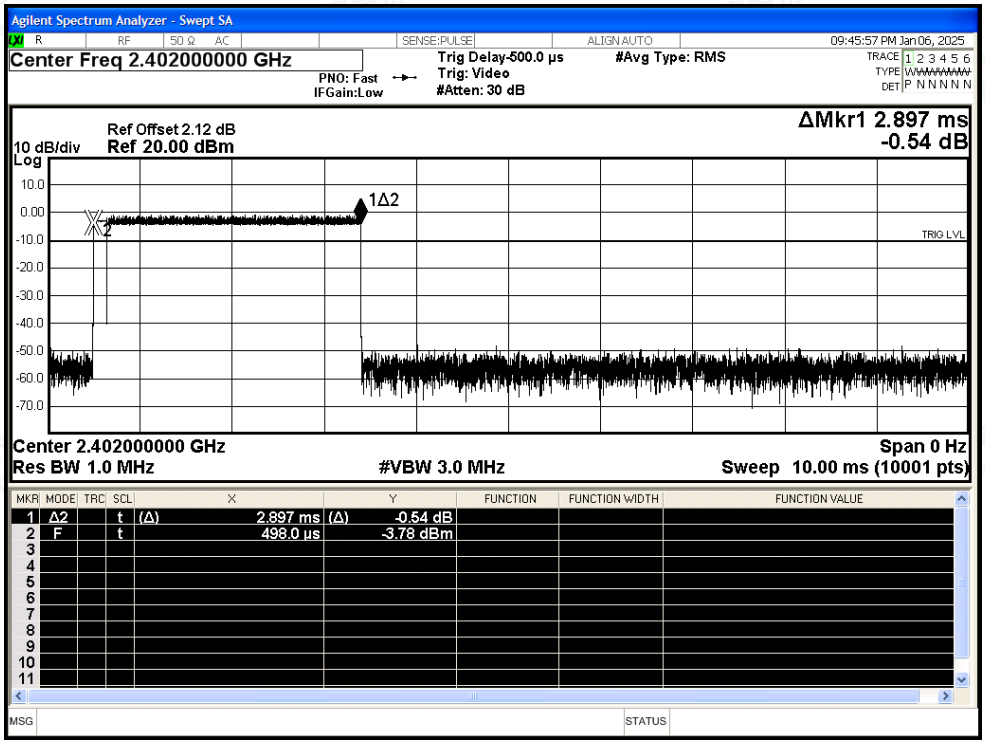
Dwell NVNT 2-DH5 2402MHz Ant3 One Burst



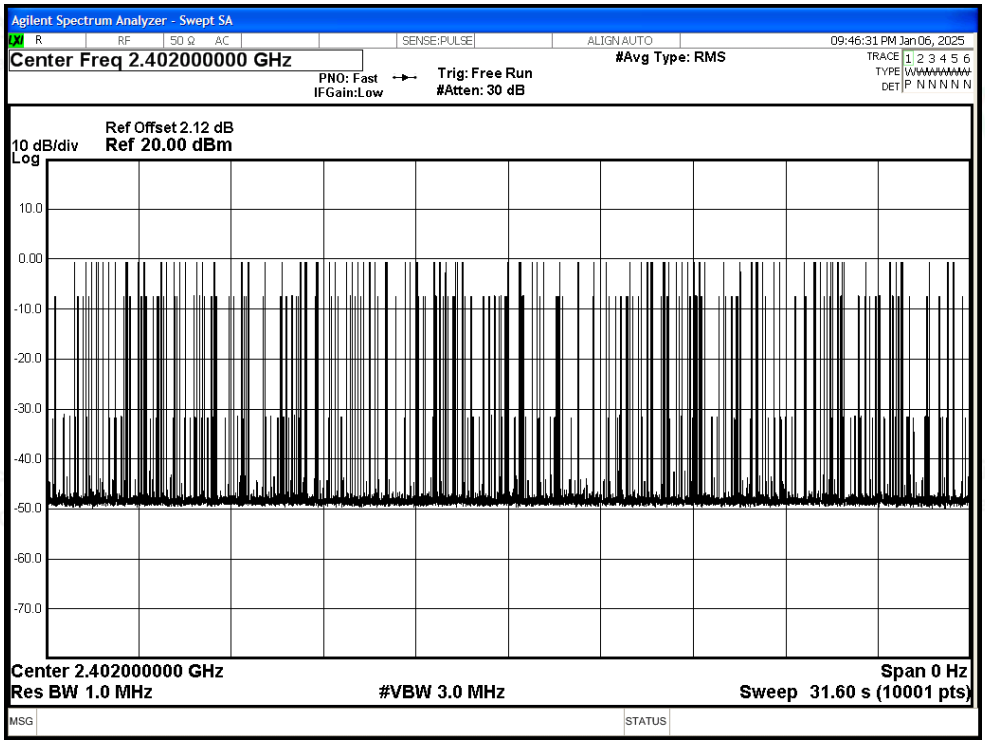
Dwell NVNT 2-DH5 2402MHz Ant3 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant3 One Burst



Dwell NVNT 3-DH5 2402MHz Ant3 Accumulated

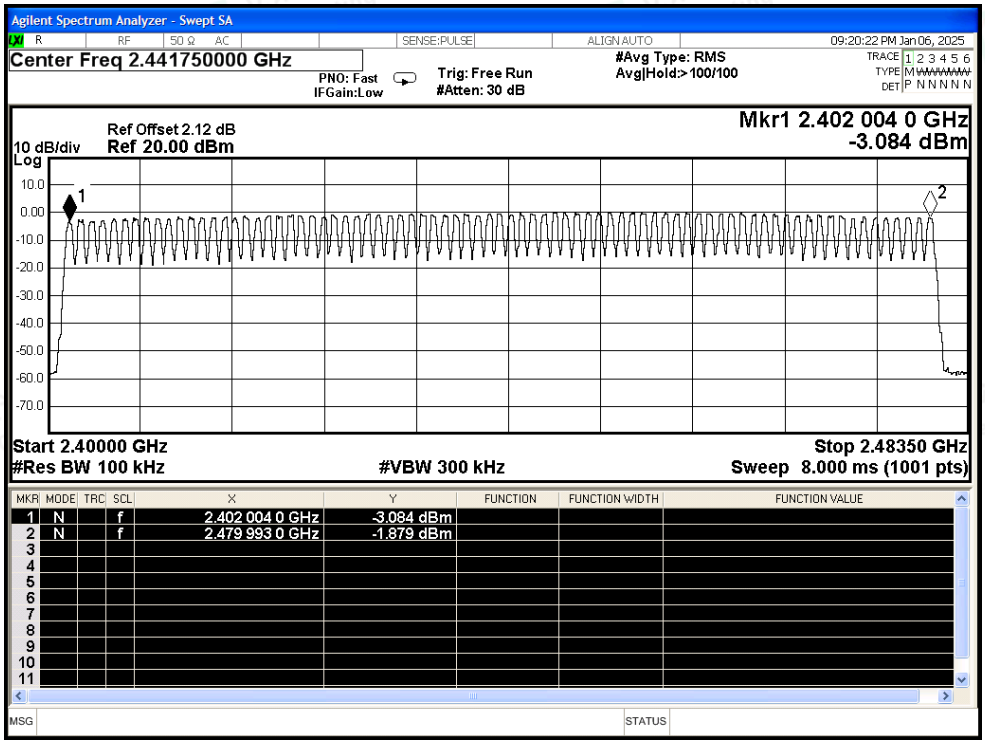


A.5 Number of Hopping Channel

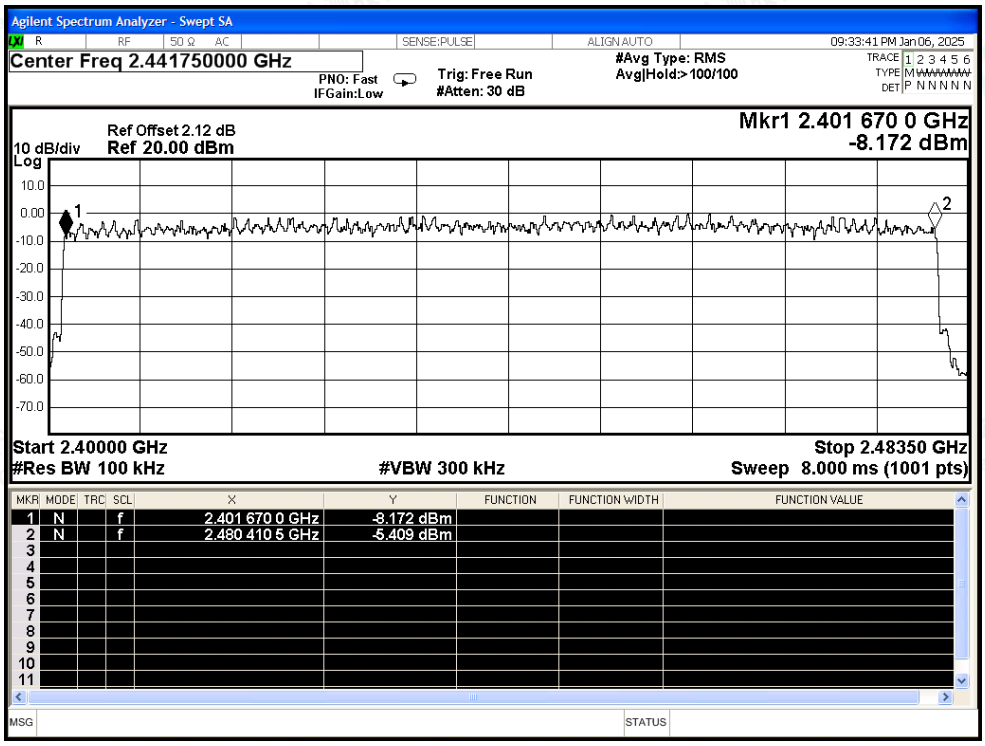
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant3	79	15	Pass
NVNT	2-DH5	Ant3	79	15	Pass
NVNT	3-DH5	Ant3	79	15	Pass

Test Graphs

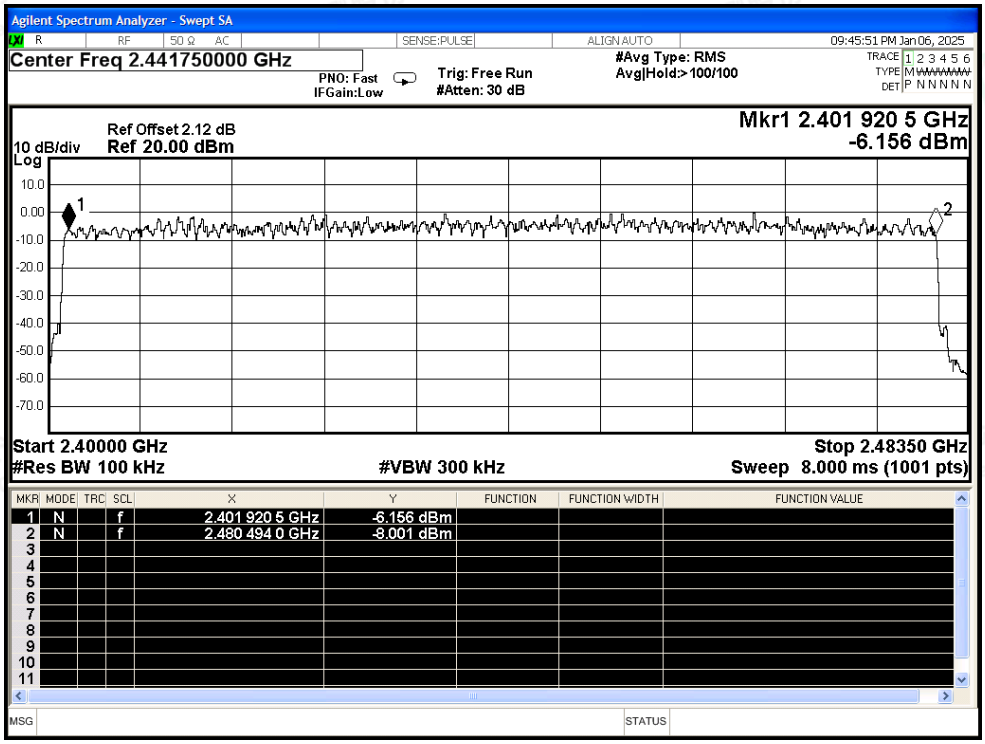
Hopping No. NVNT 1-DH5 2402MHz Ant3



Hopping No. NVNT 2-DH5 2402MHz Ant3



Hopping No. NVNT 3-DH5 2402MHz Ant3

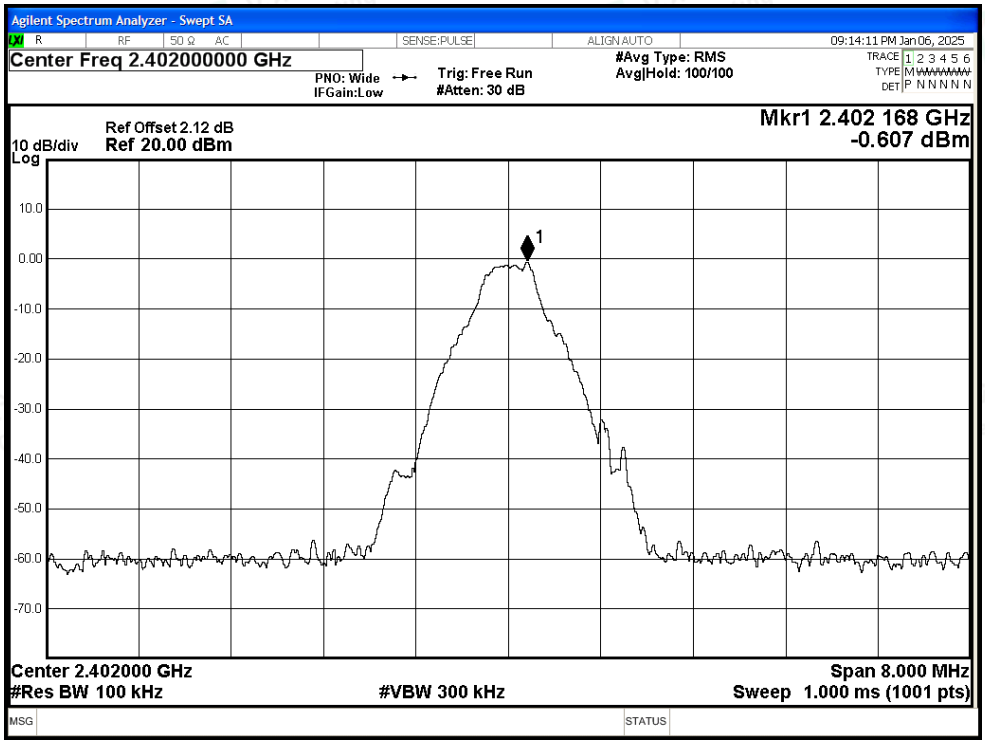


A.6 Band Edge

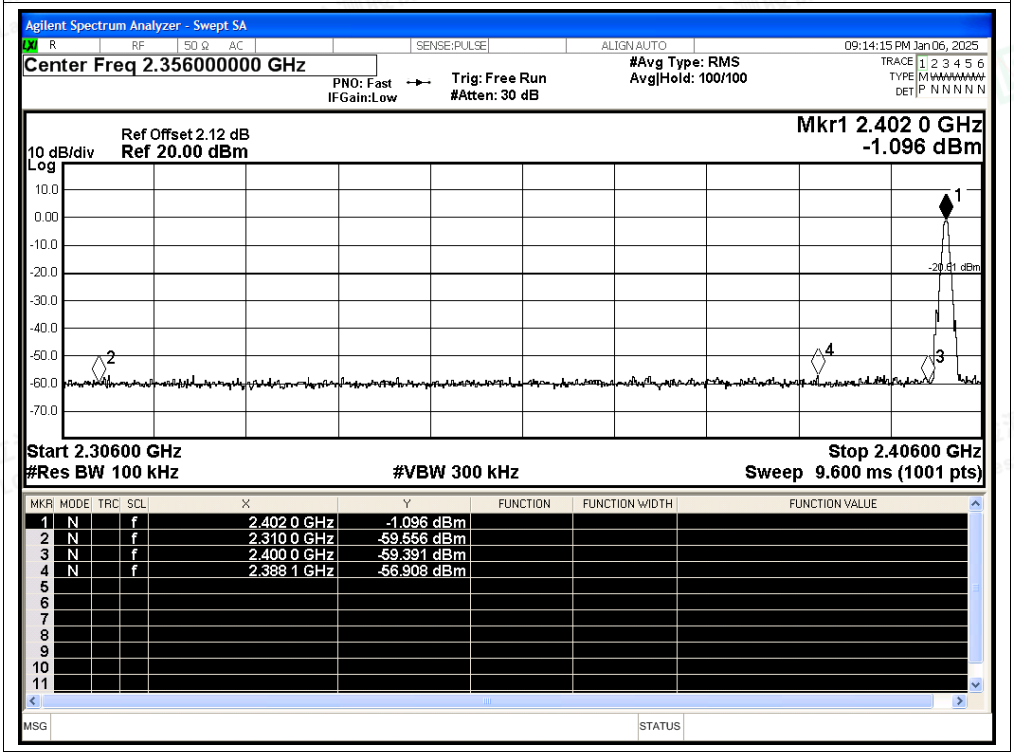
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant3	No-Hopping	-56.3	-20	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	-55.26	-20	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	-51.2	-20	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	-55.09	-20	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	-50.36	-20	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	-54.64	-20	Pass

Test Graphs

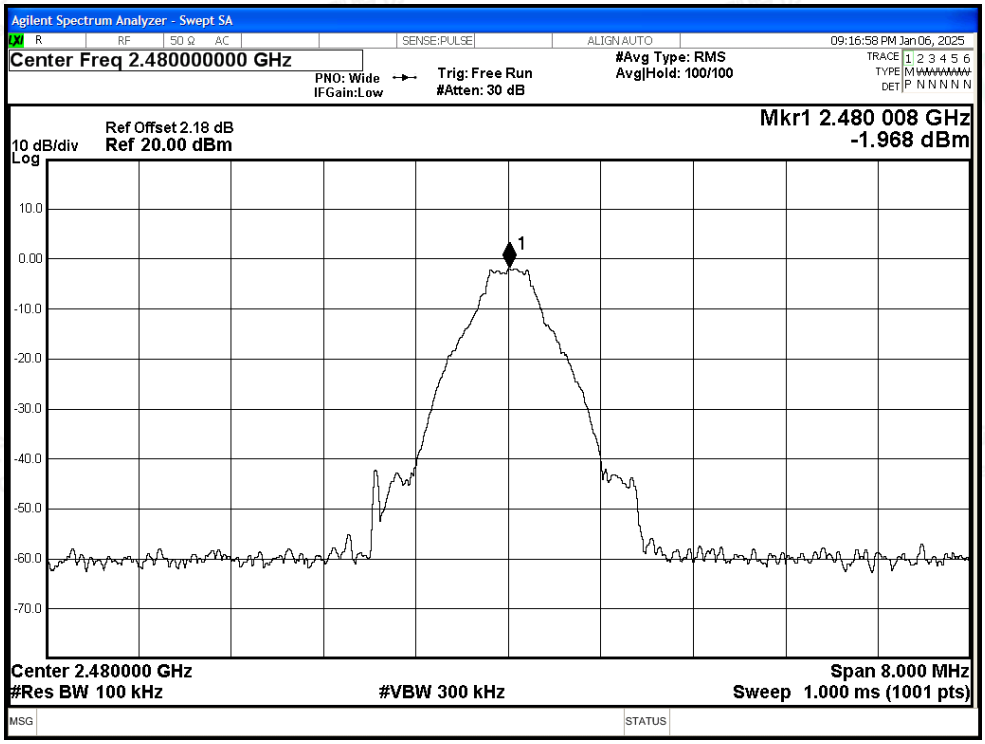
Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Ref



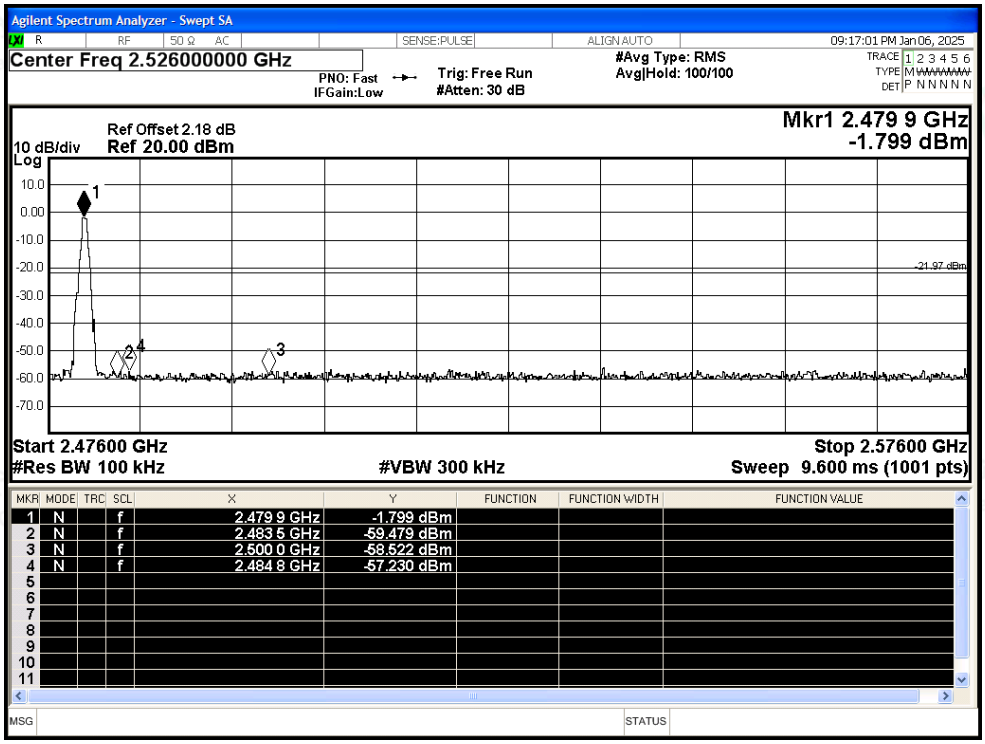
Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Emission



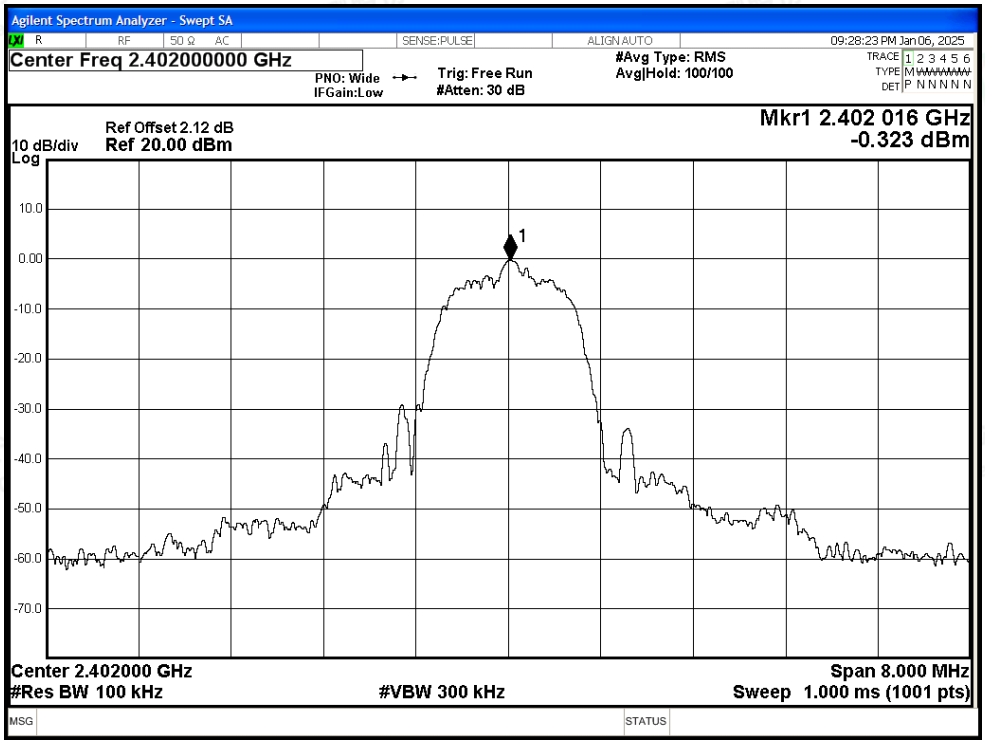
Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Ref



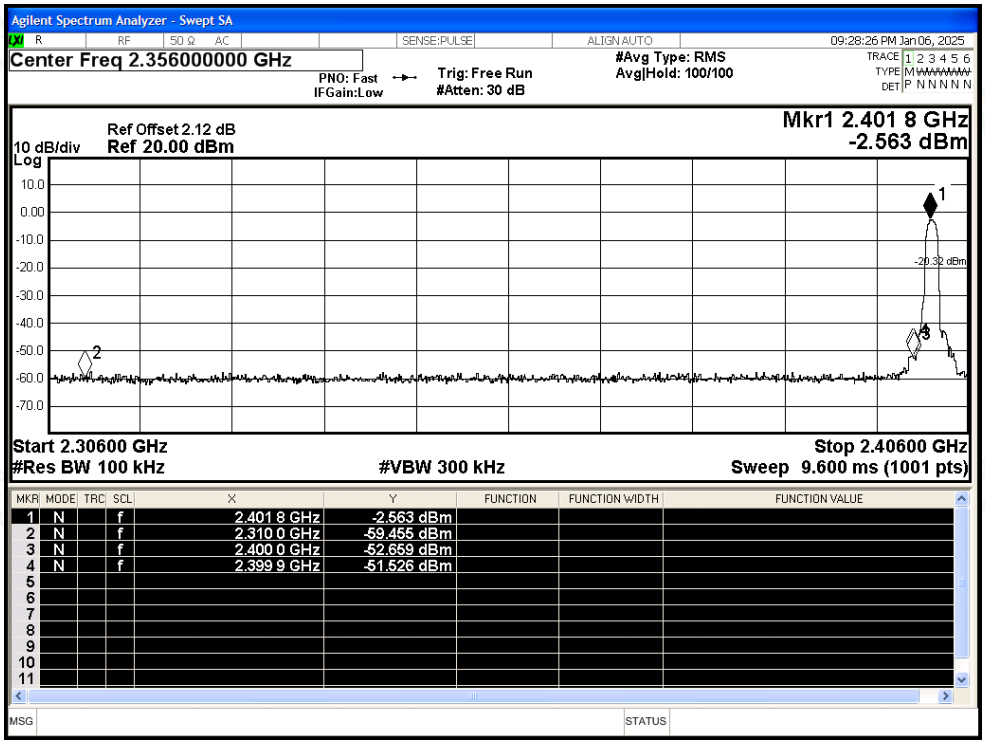
Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Emission



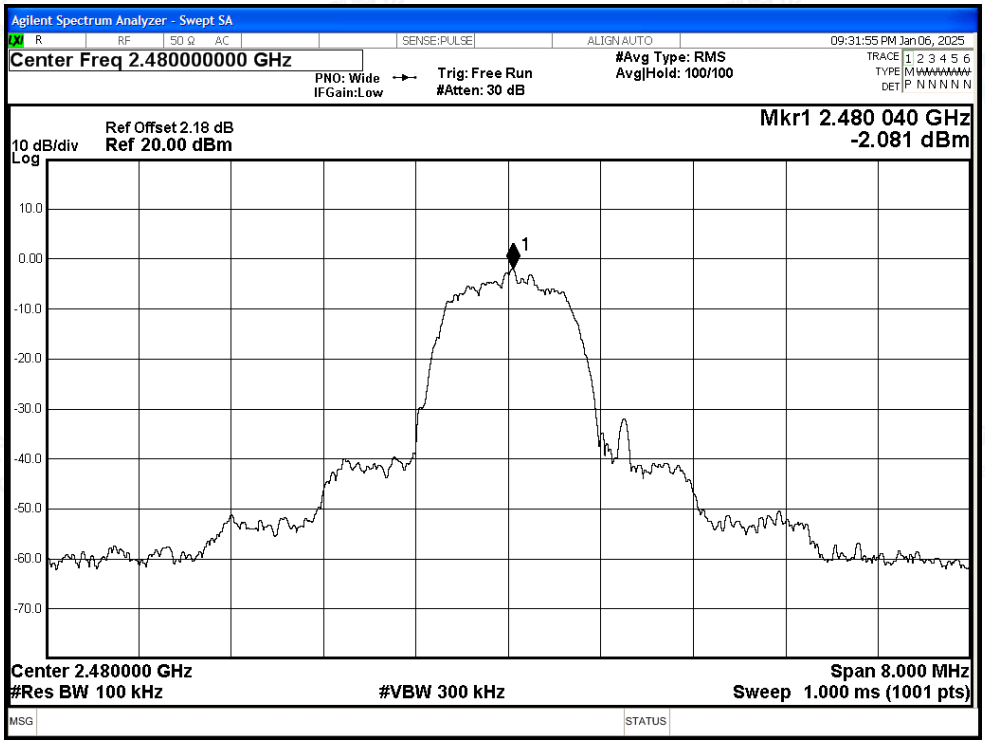
Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Ref



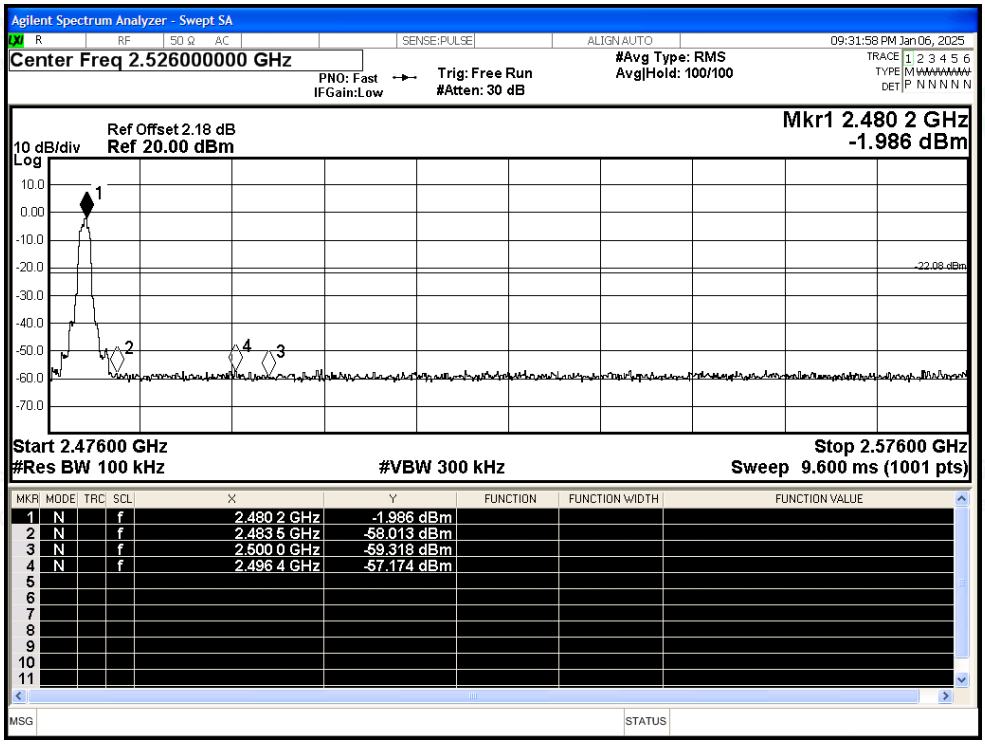
Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Emission



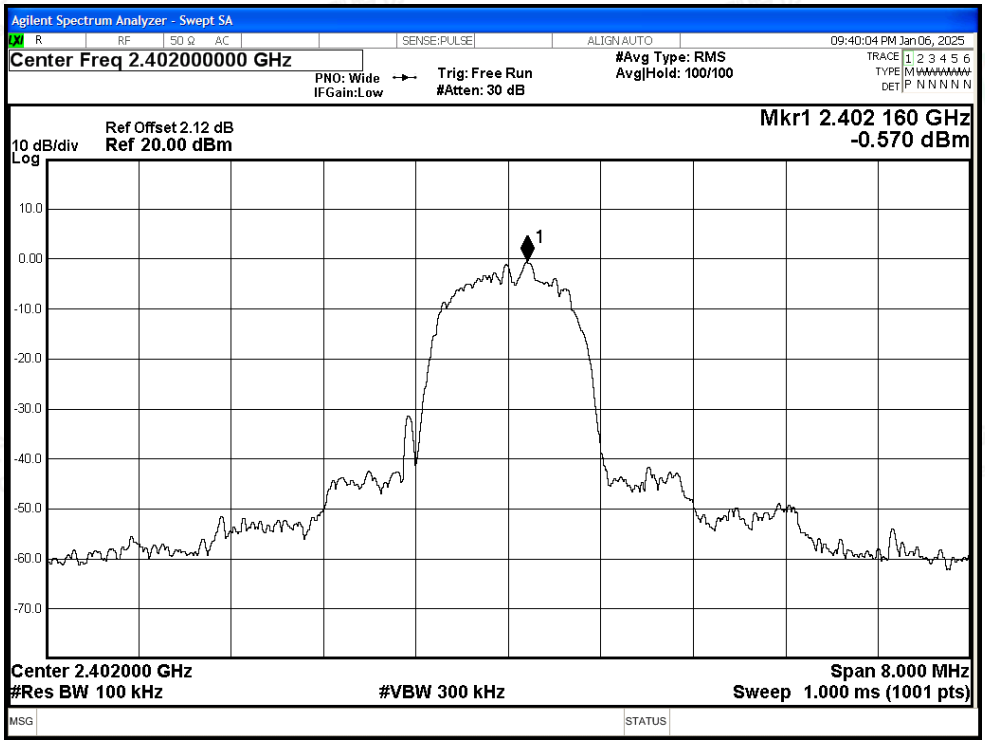
Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Ref



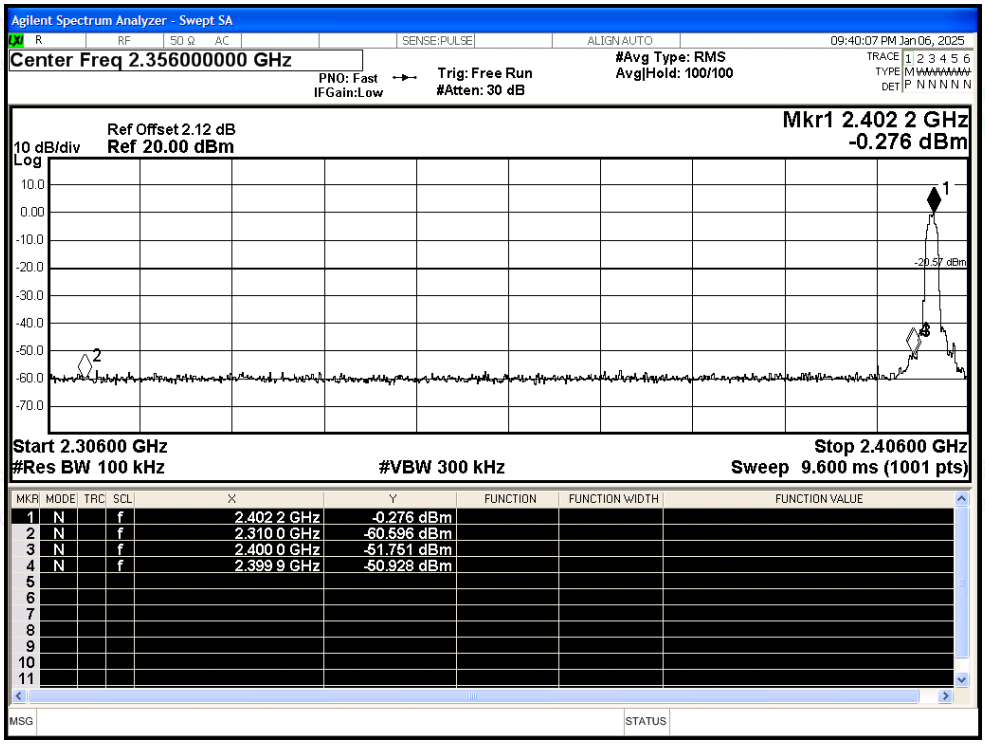
Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Emission



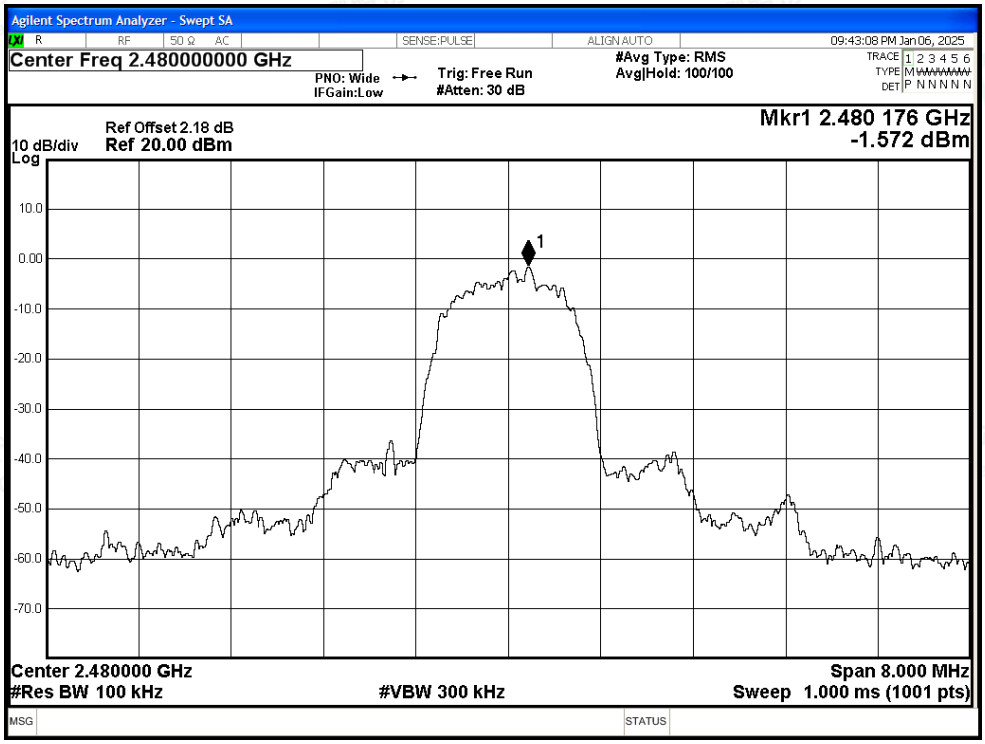
Band Edge NVNT 3-DH5 2402MHz Ant3 No-Hopping Ref



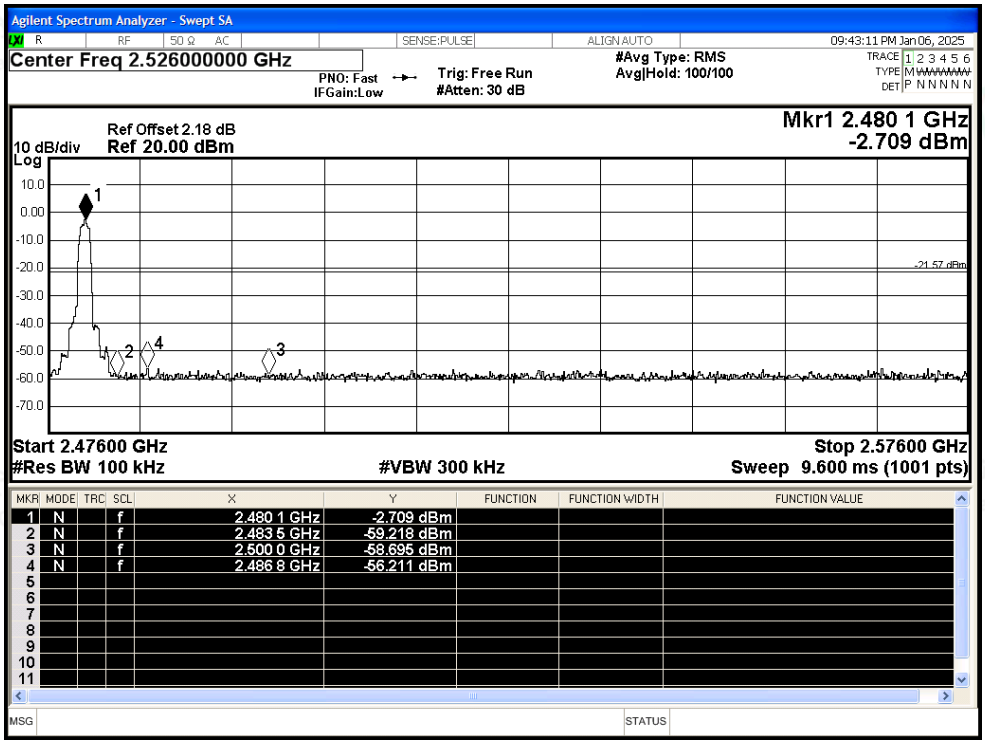
Band Edge NVNT 3-DH5 2402MHz Ant3 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Emission

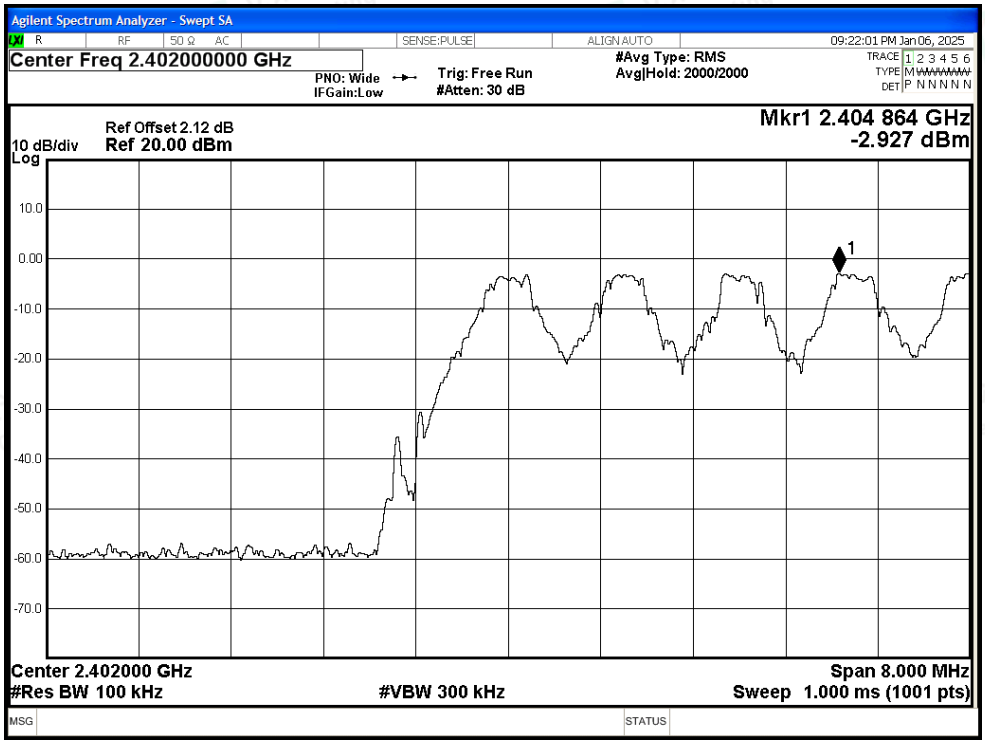


(Hopping)

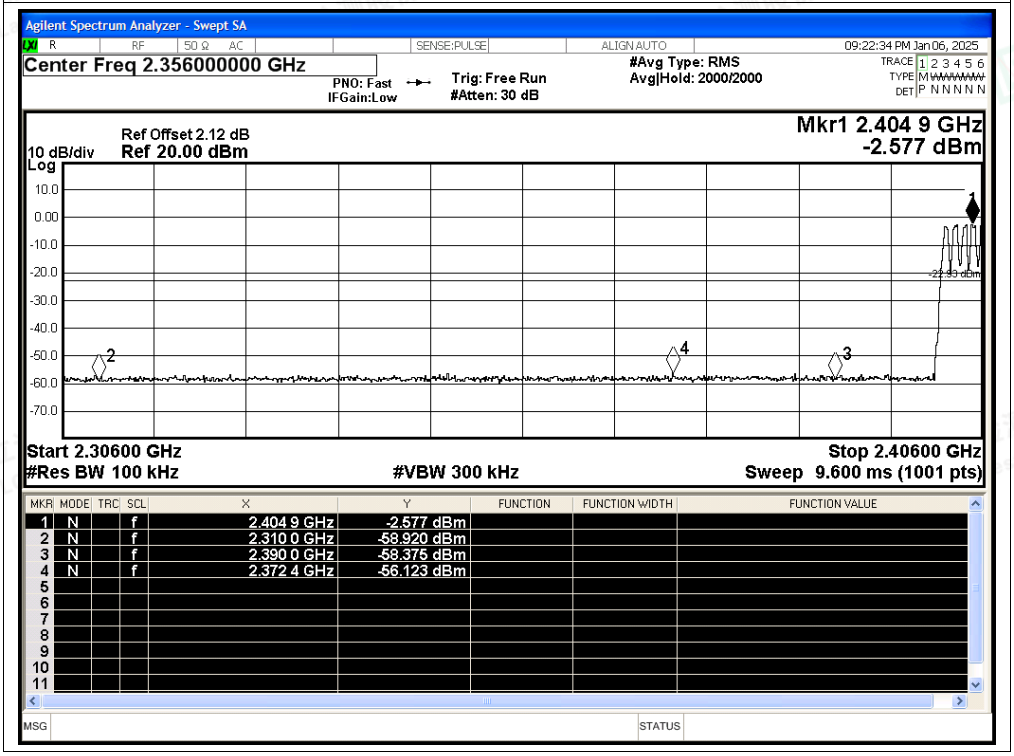
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant3	Hopping	-53.2	-20	Pass
NVNT	1-DH5	2480	Ant3	Hopping	-54.73	-20	Pass
NVNT	2-DH5	2402	Ant3	Hopping	-52.74	-20	Pass
NVNT	2-DH5	2480	Ant3	Hopping	-54.35	-20	Pass
NVNT	3-DH5	2402	Ant3	Hopping	-50.59	-20	Pass
NVNT	3-DH5	2480	Ant3	Hopping	-54.61	-20	Pass

Test Graphs

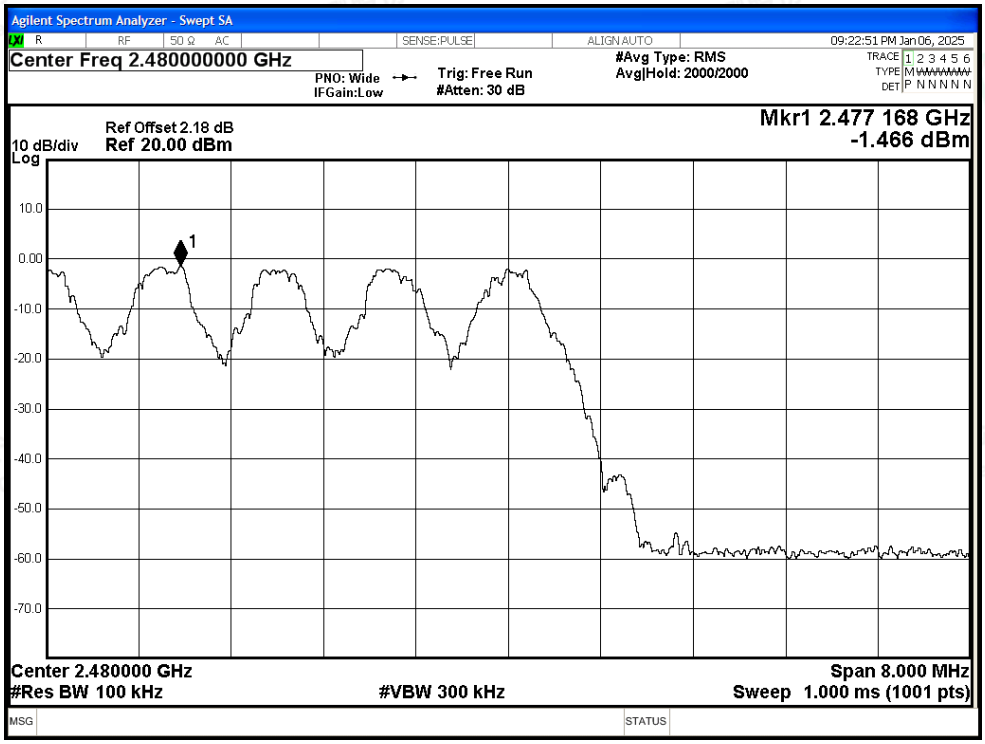
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Ref



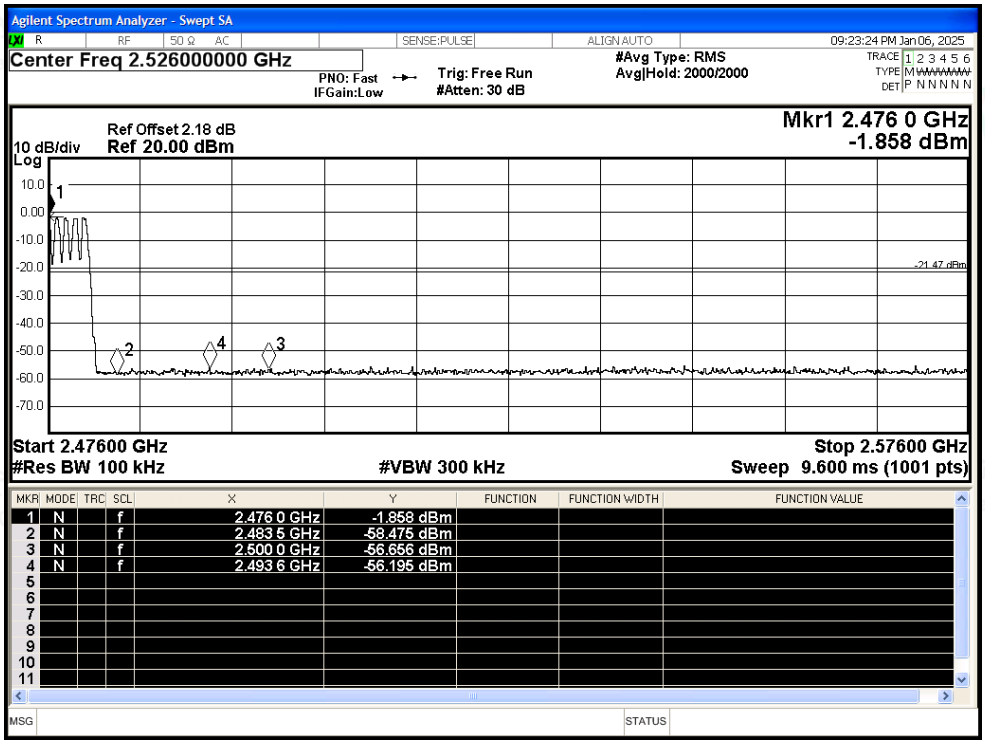
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Emission



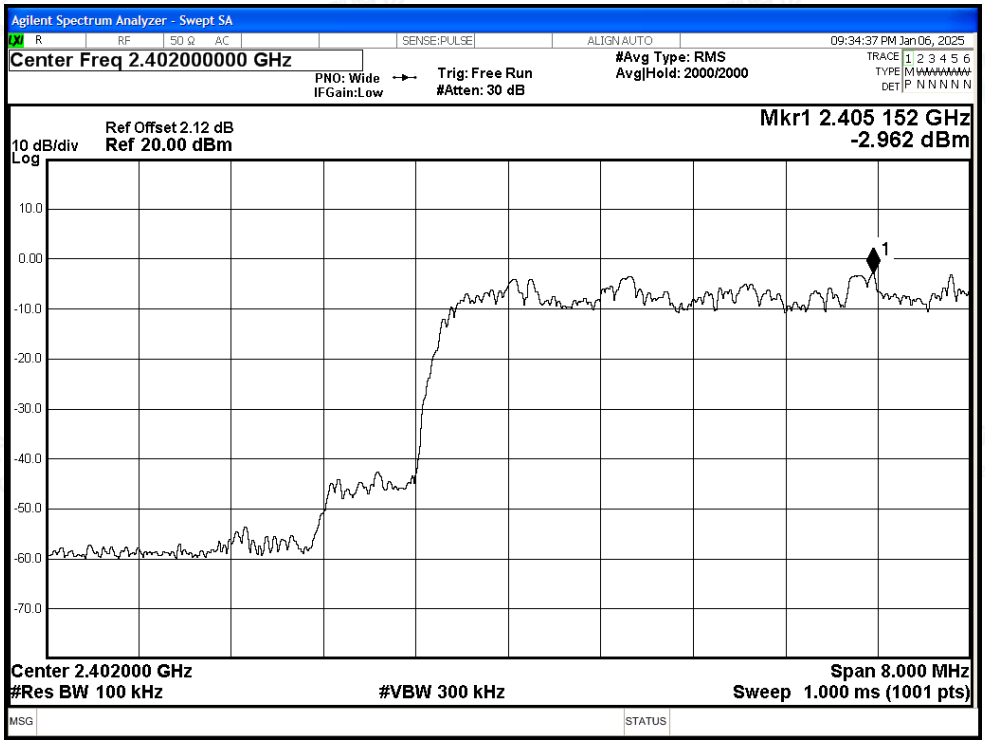
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Ref



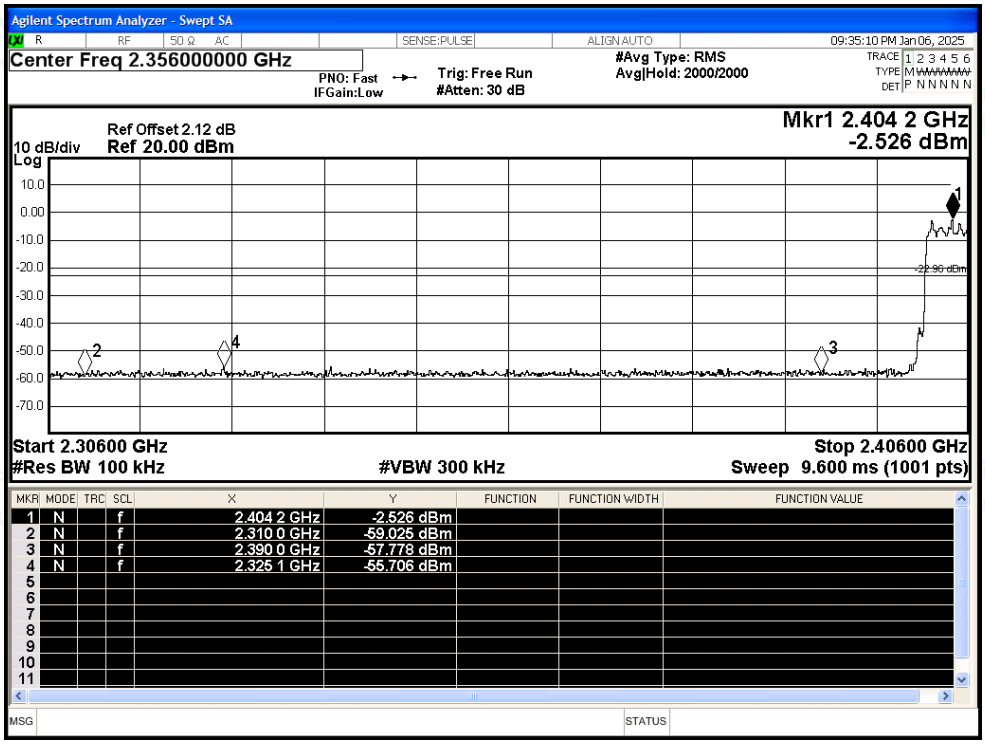
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Emission



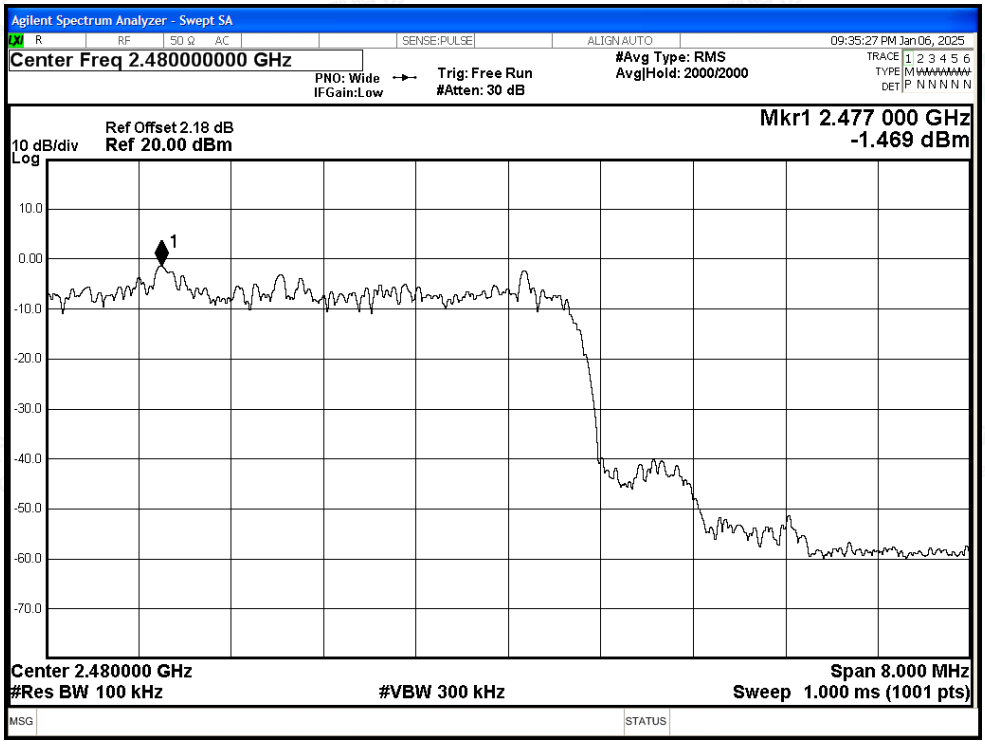
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Ref



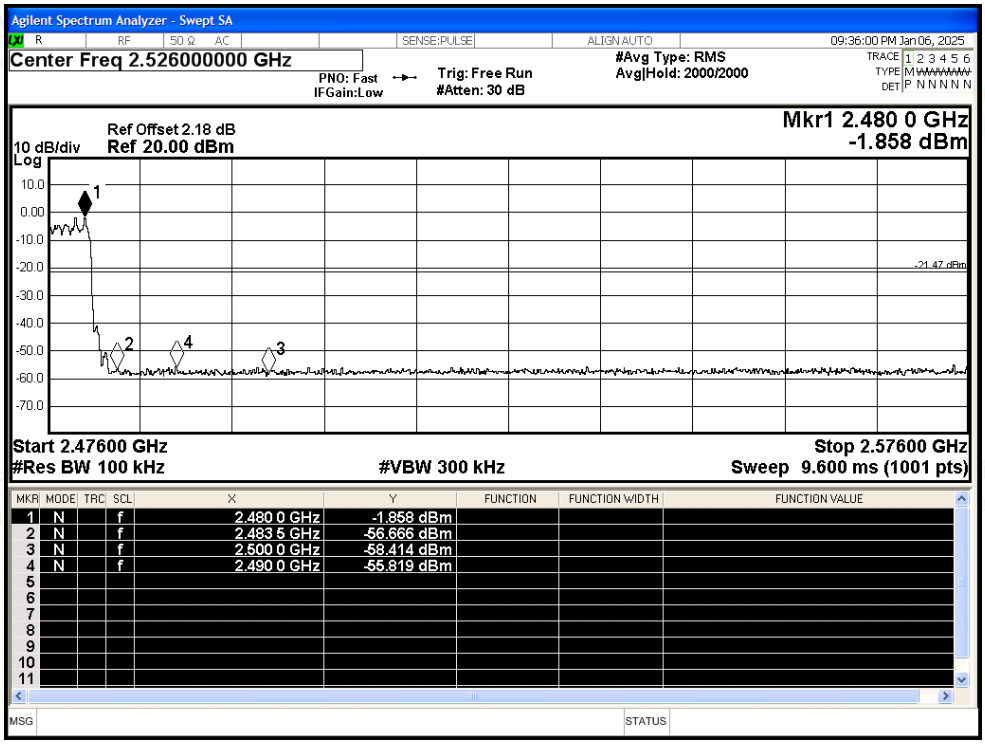
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Emission



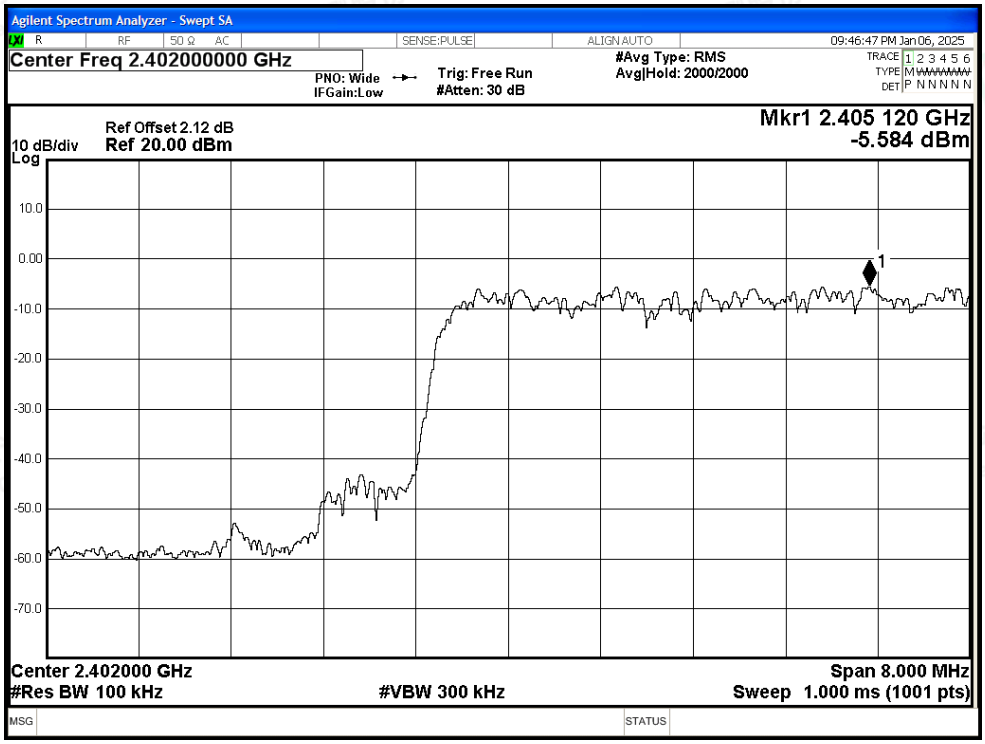
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Ref



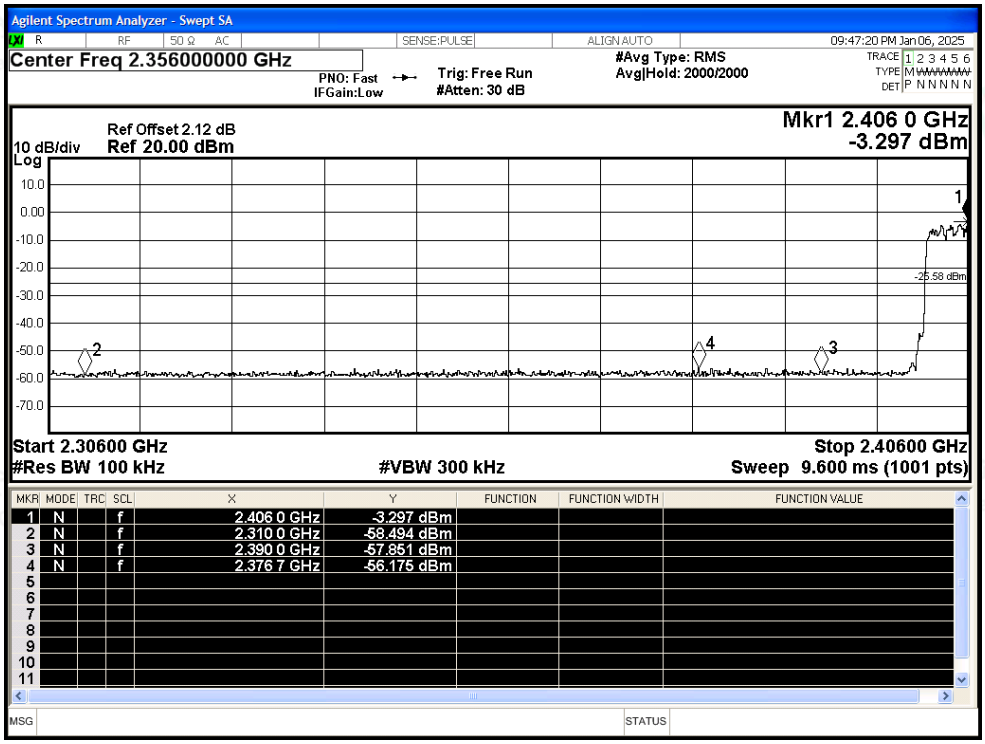
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Emission



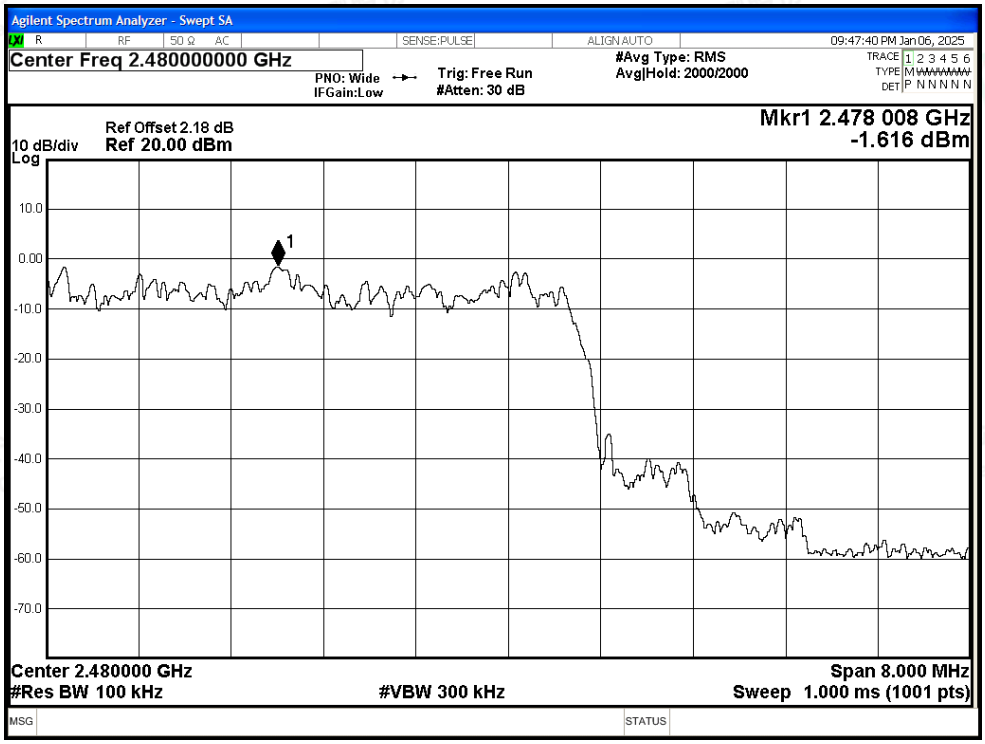
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Ref



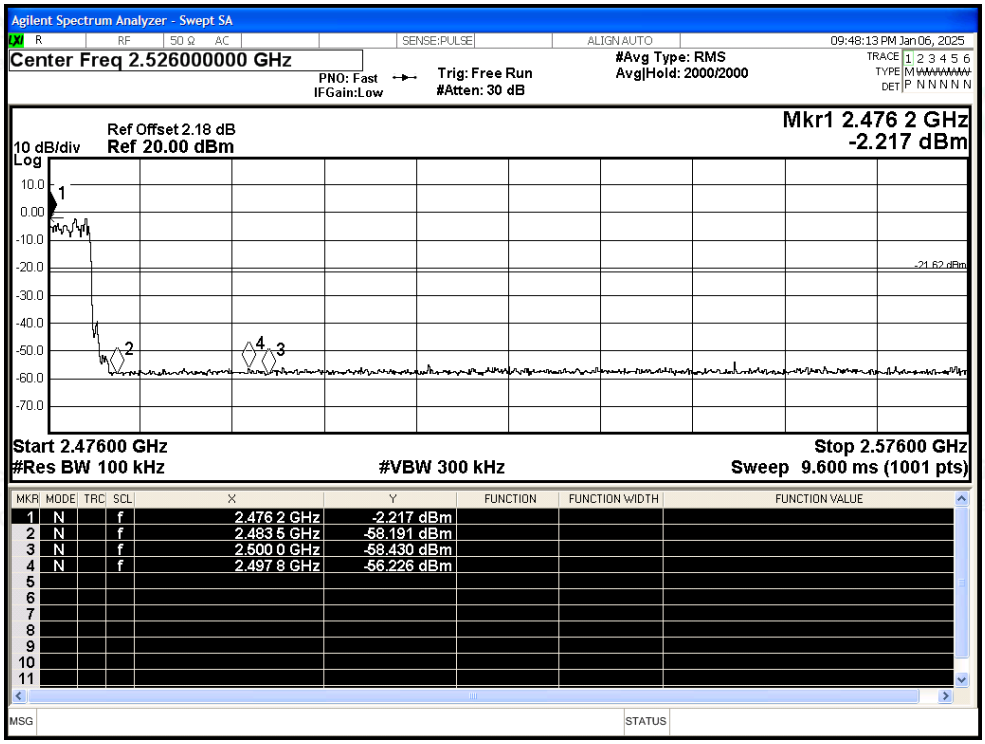
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Emission

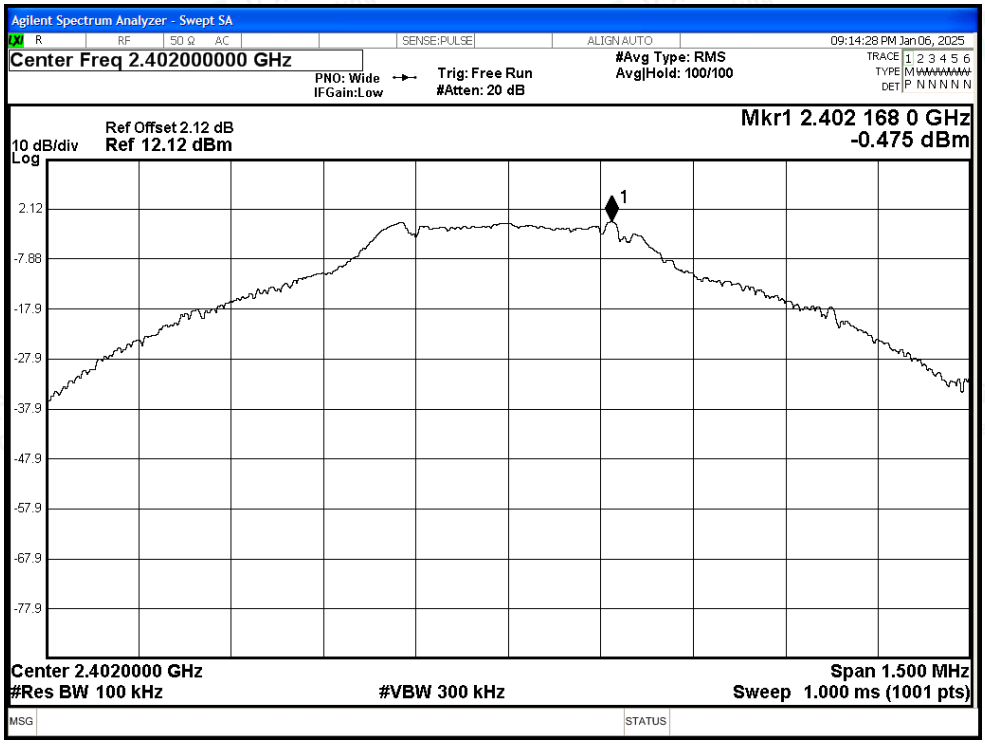


A.7 Conducted RF Spurious Emission

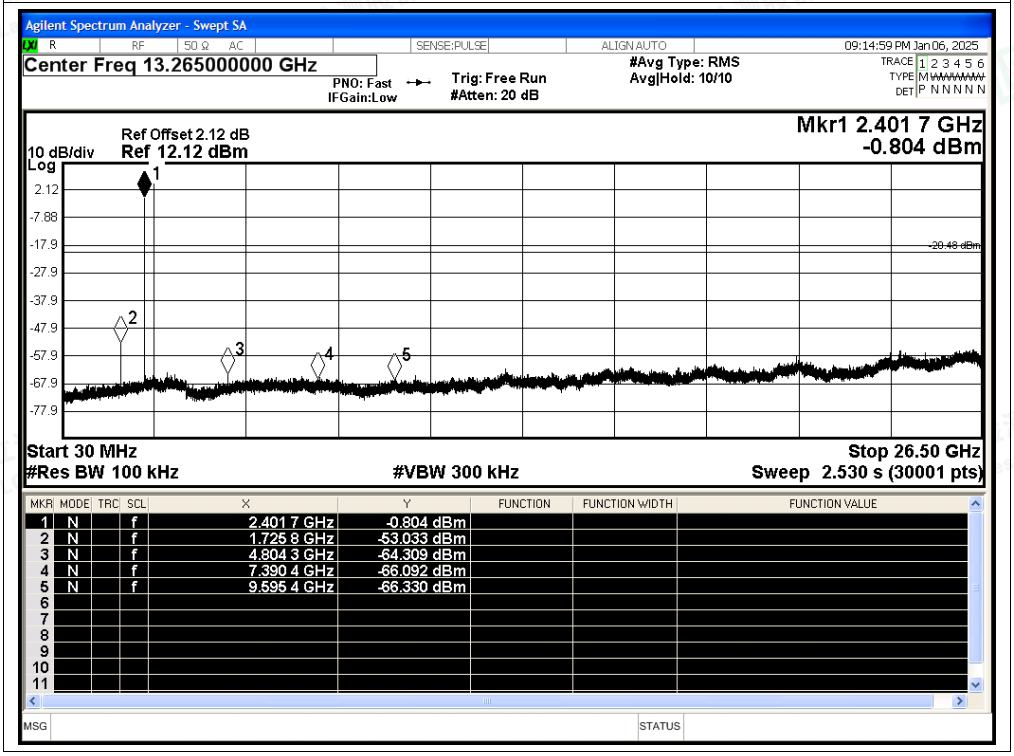
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant3	-52.56	-20	Pass
NVNT	1-DH5	2441	Ant3	-54.83	-20	Pass
NVNT	1-DH5	2480	Ant3	-54.14	-20	Pass
NVNT	2-DH5	2402	Ant3	-55.06	-20	Pass
NVNT	2-DH5	2441	Ant3	-55.02	-20	Pass
NVNT	2-DH5	2480	Ant3	-45.75	-20	Pass
NVNT	3-DH5	2402	Ant3	-54.12	-20	Pass
NVNT	3-DH5	2441	Ant3	-55.03	-20	Pass
NVNT	3-DH5	2480	Ant3	-52.31	-20	Pass

Test Graphs

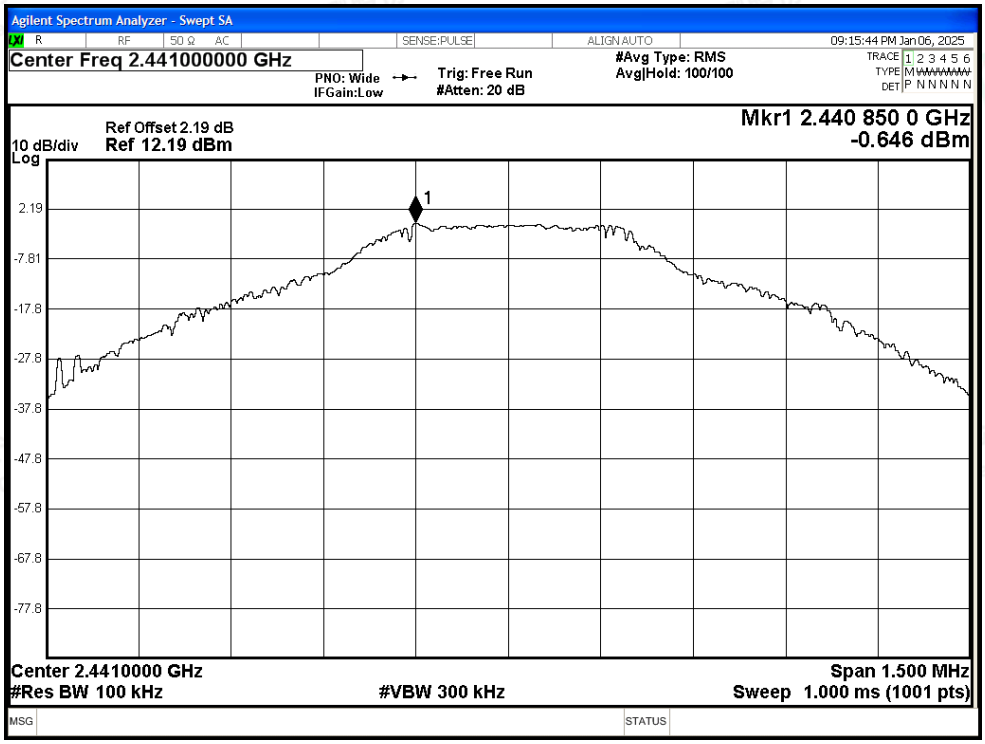
Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Ref



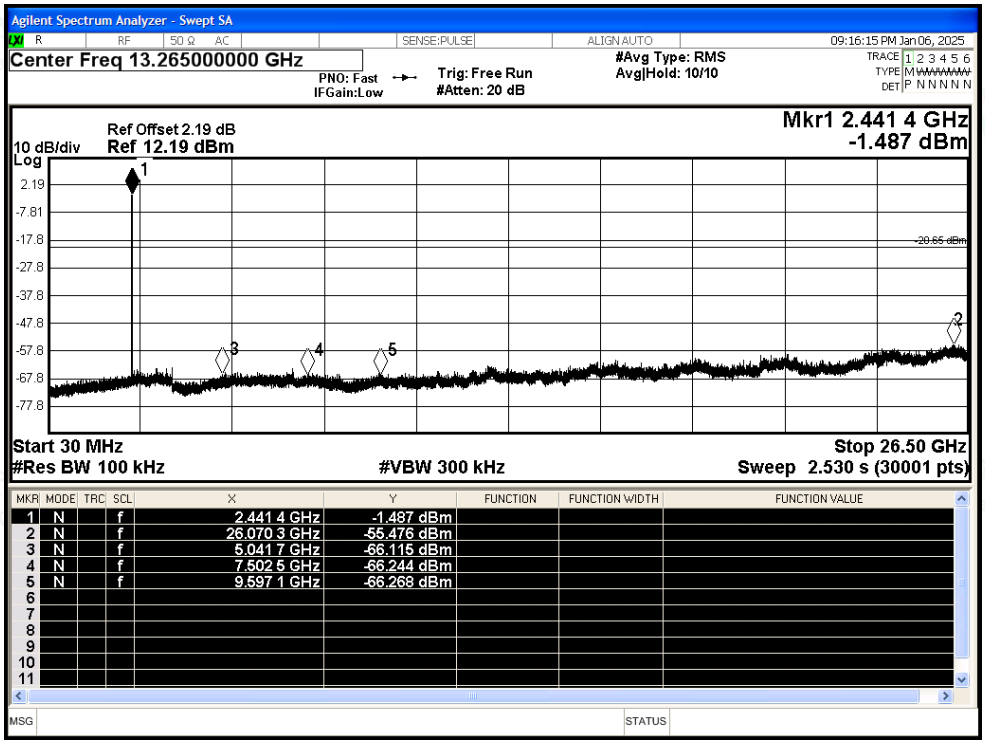
Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Emission



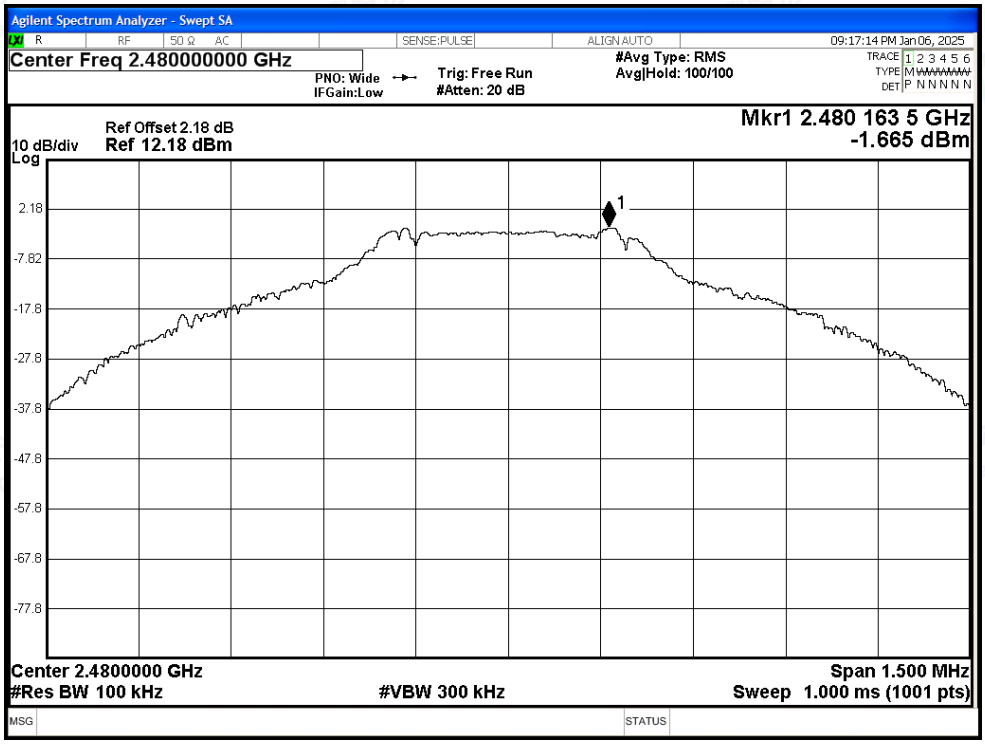
Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Ref



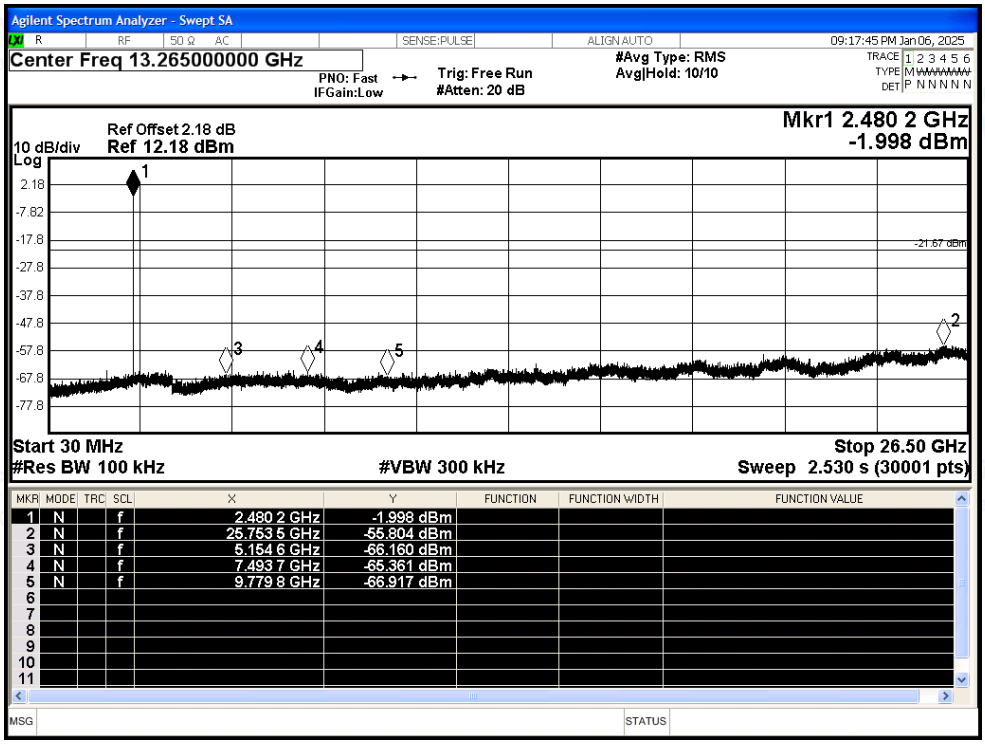
Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Emission



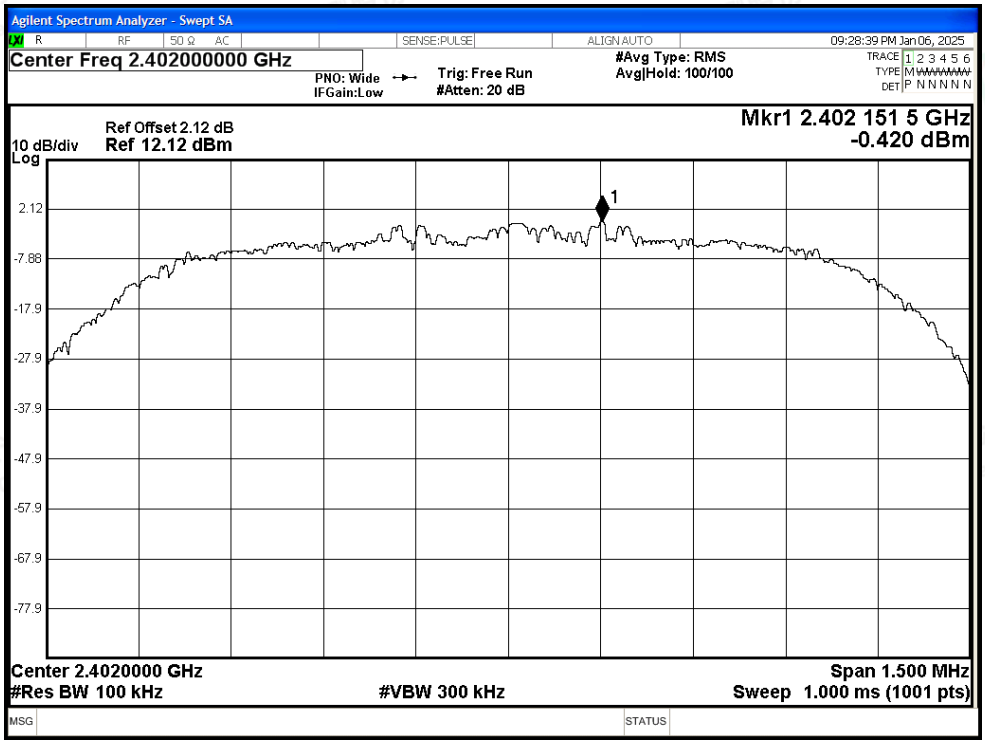
Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Ref



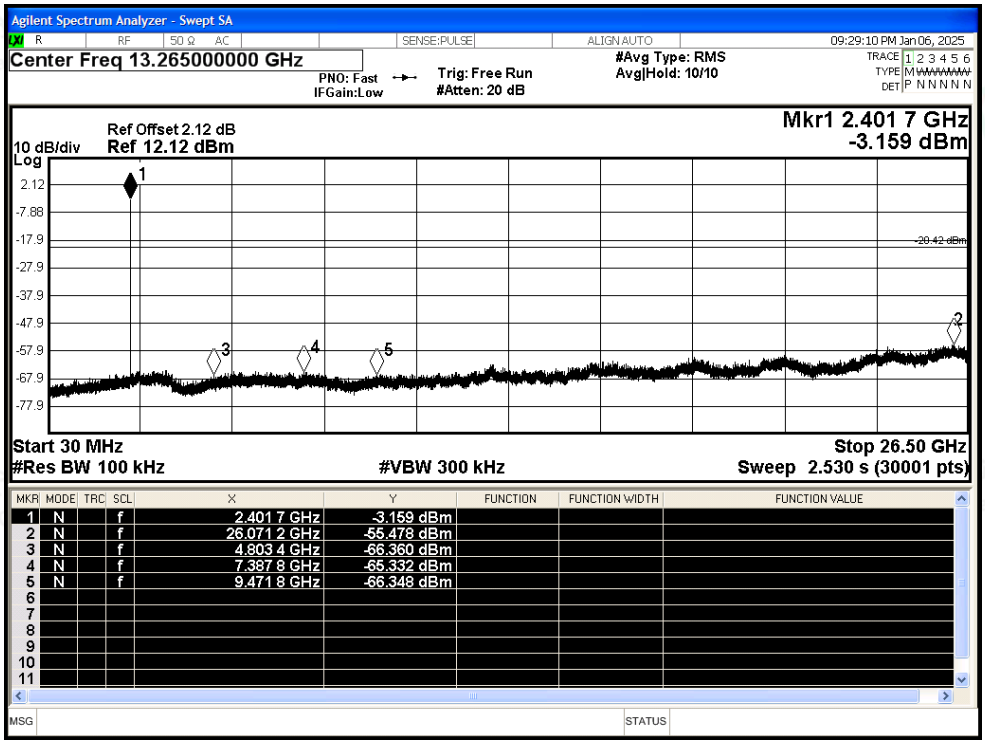
Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Emission



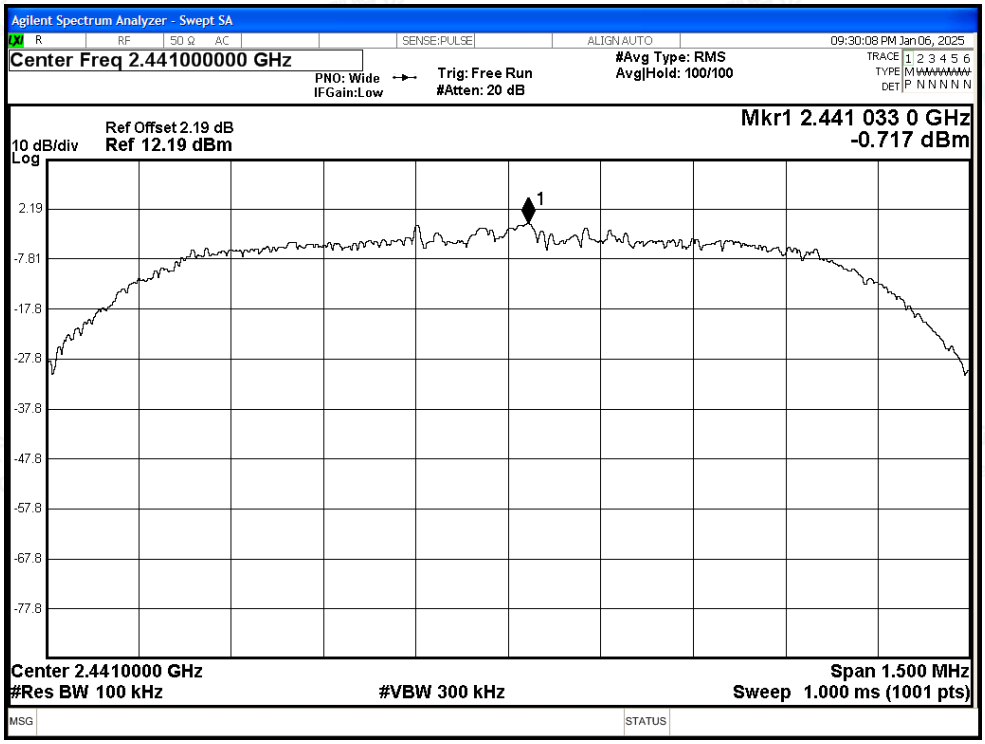
Tx. Spurious NVNT 2-DH5 2402MHz Ant3 Ref



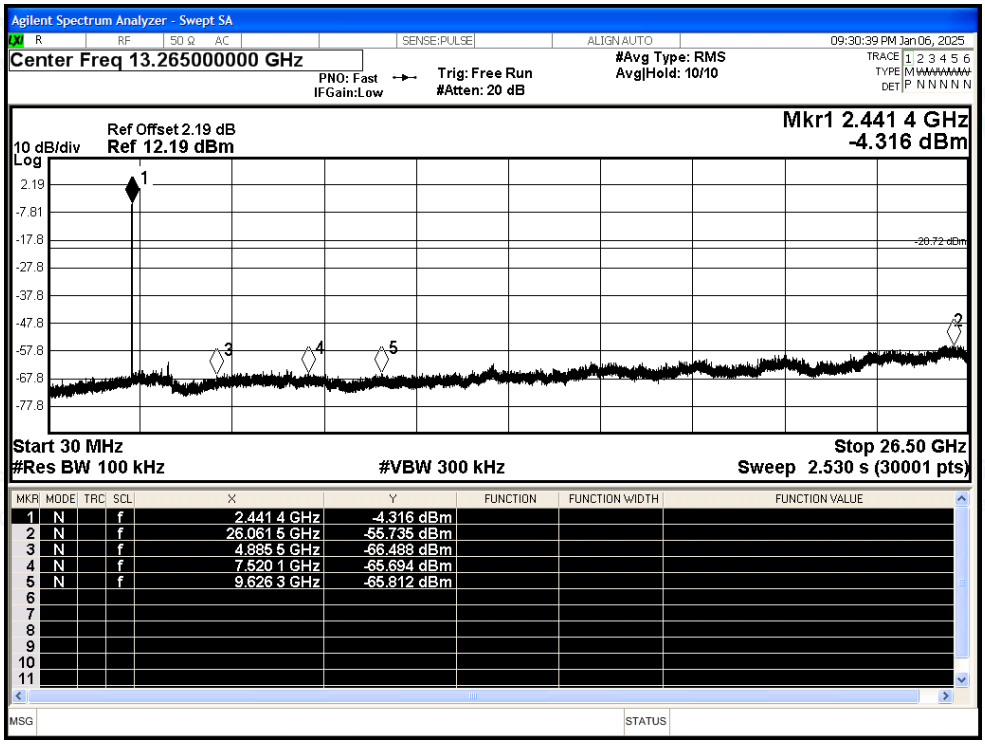
Tx. Spurious NVNT 2-DH5 2402MHz Ant3 Emission



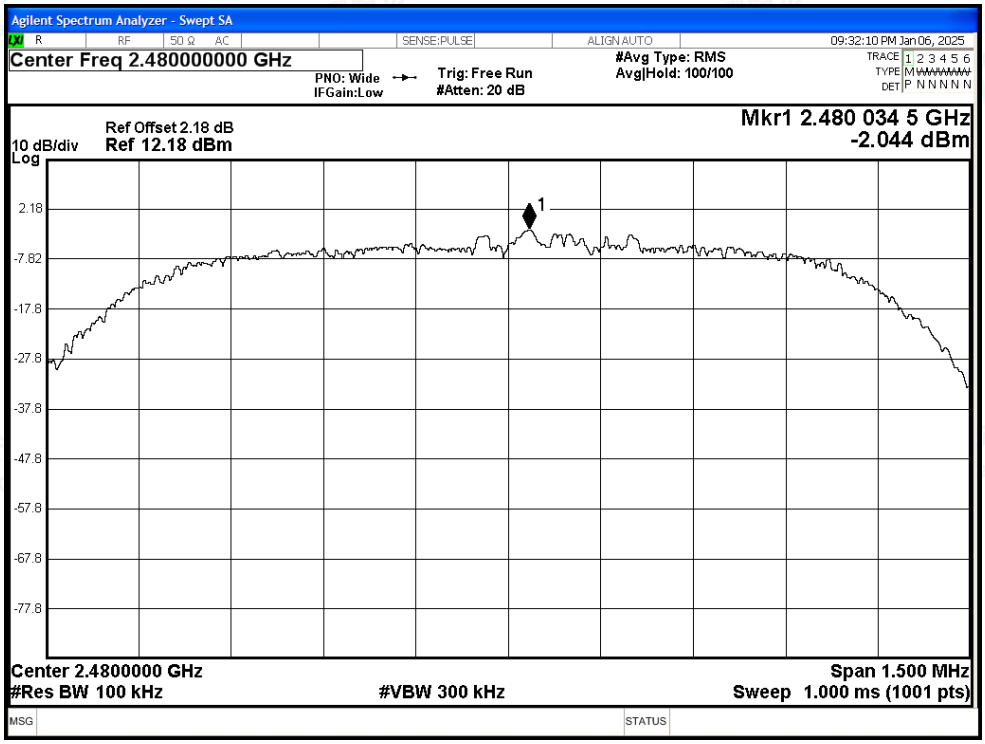
Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Ref



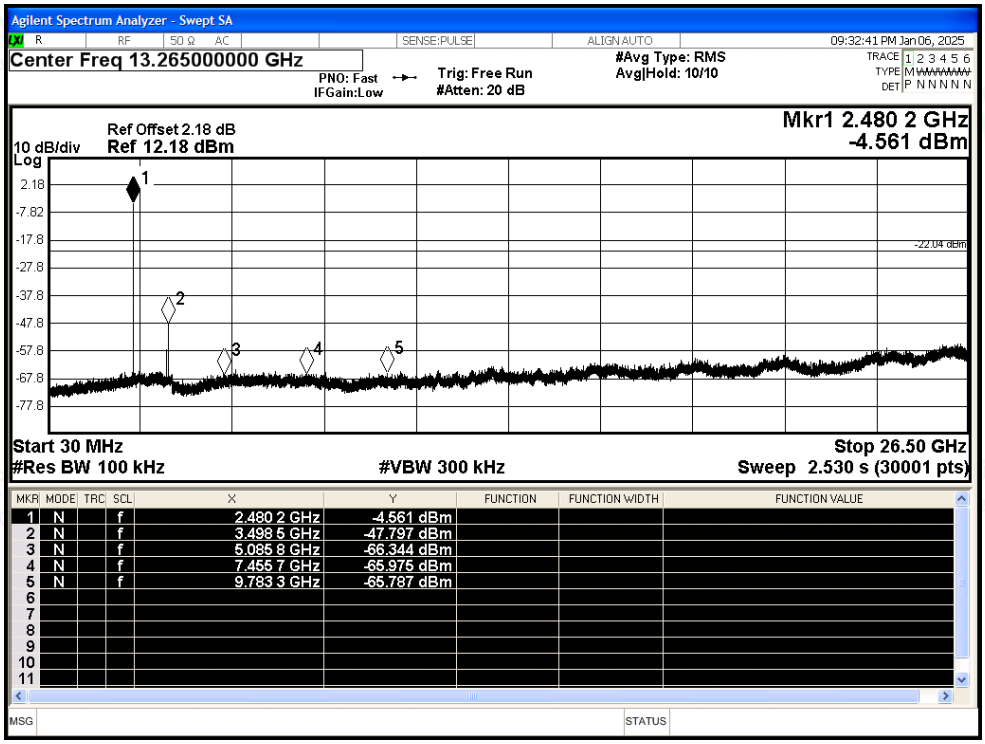
Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Emission



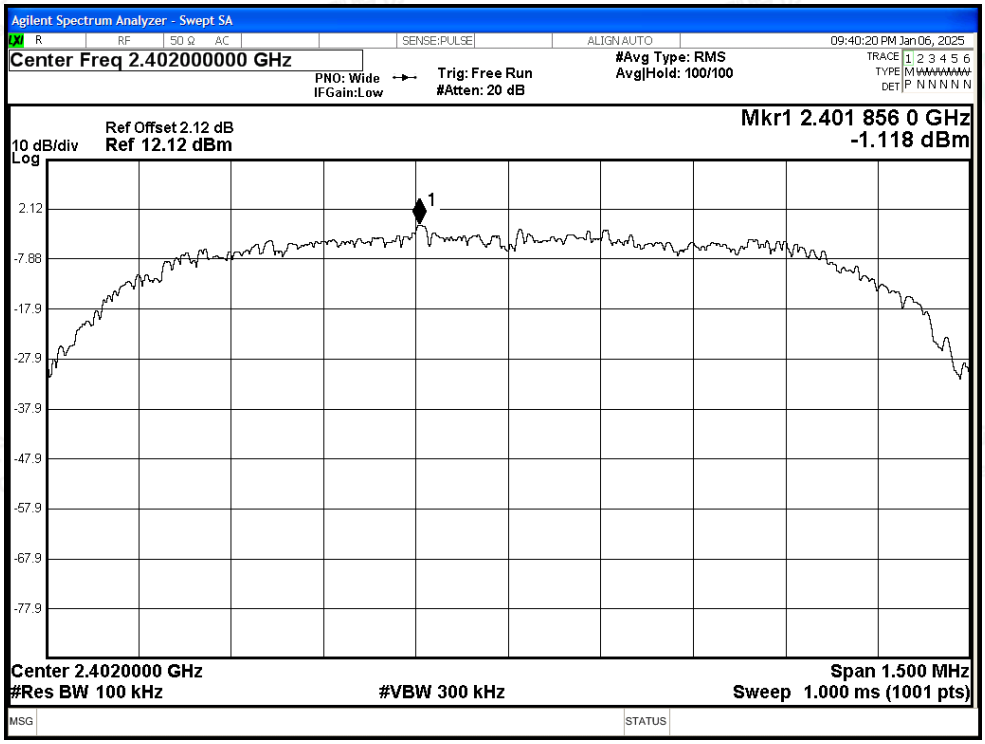
Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Ref



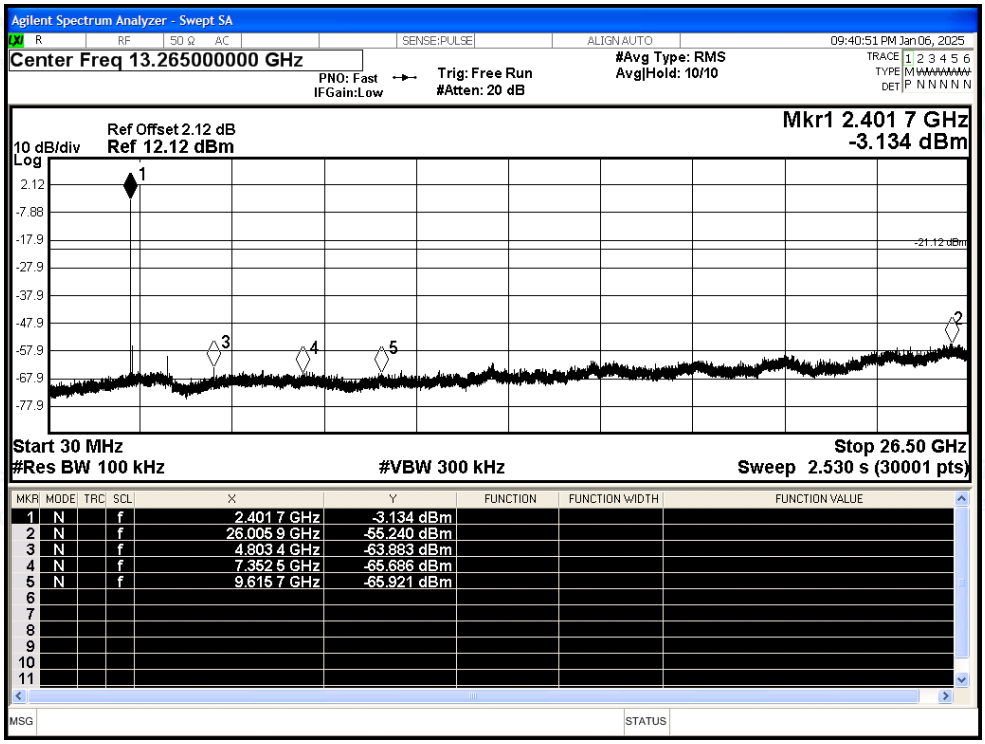
Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Emission



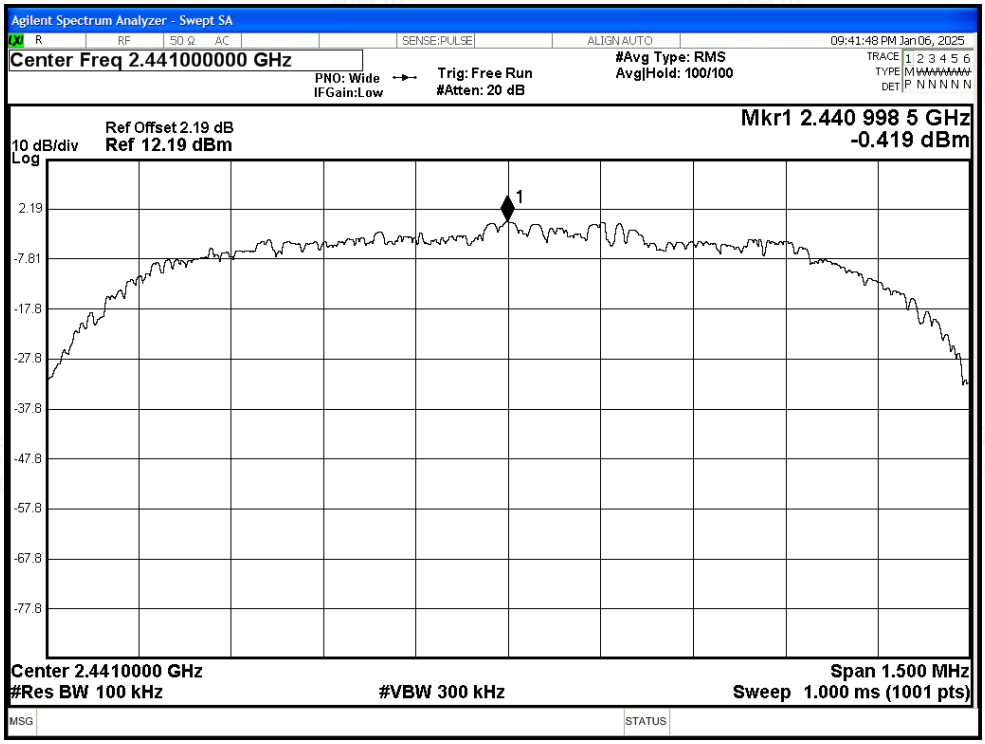
Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Ref



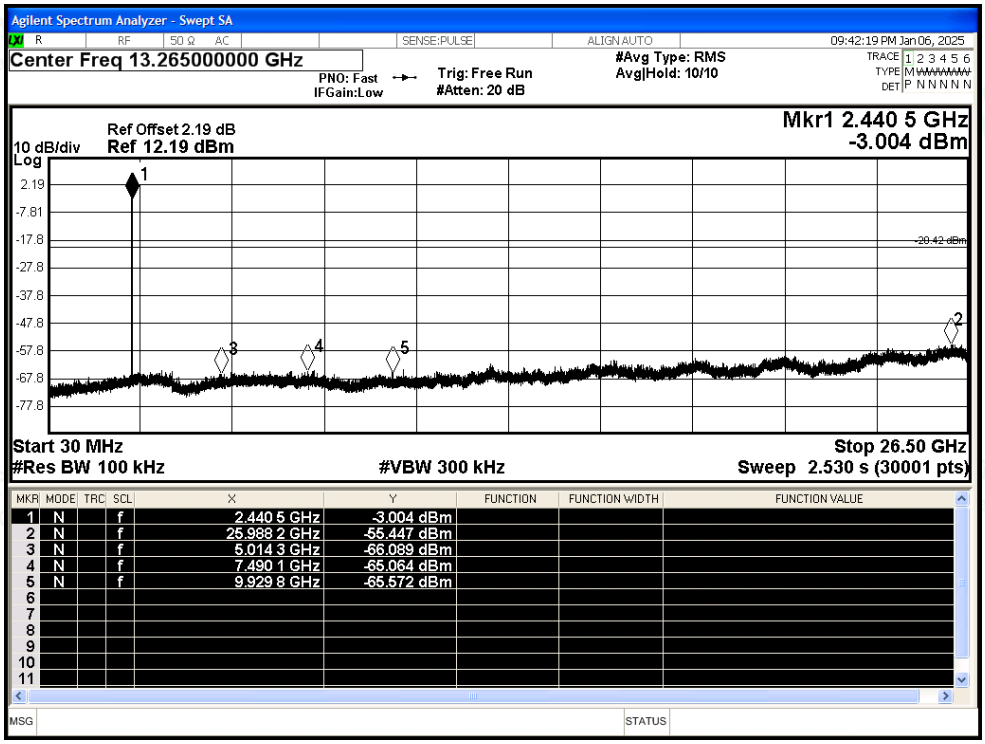
Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Emission



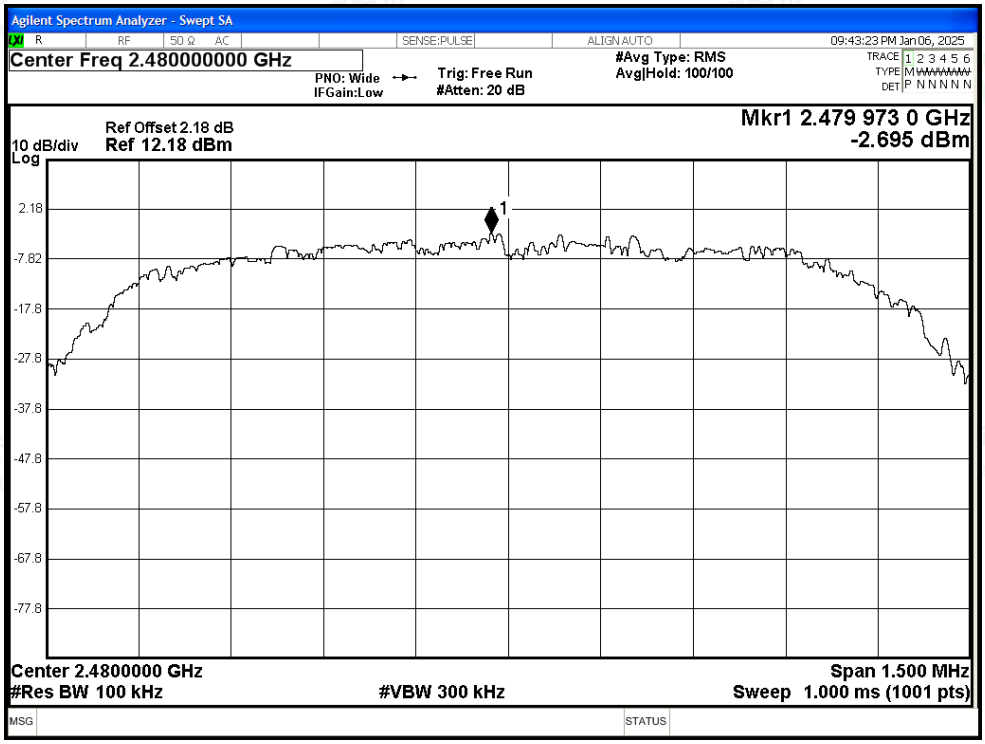
Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Ref



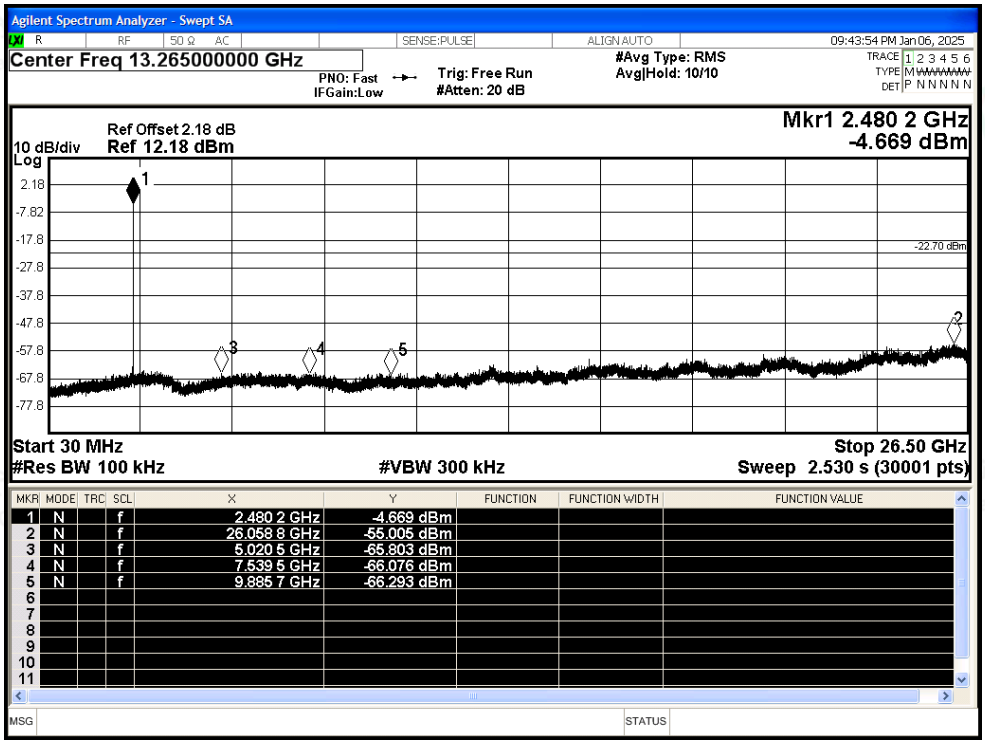
Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Emission

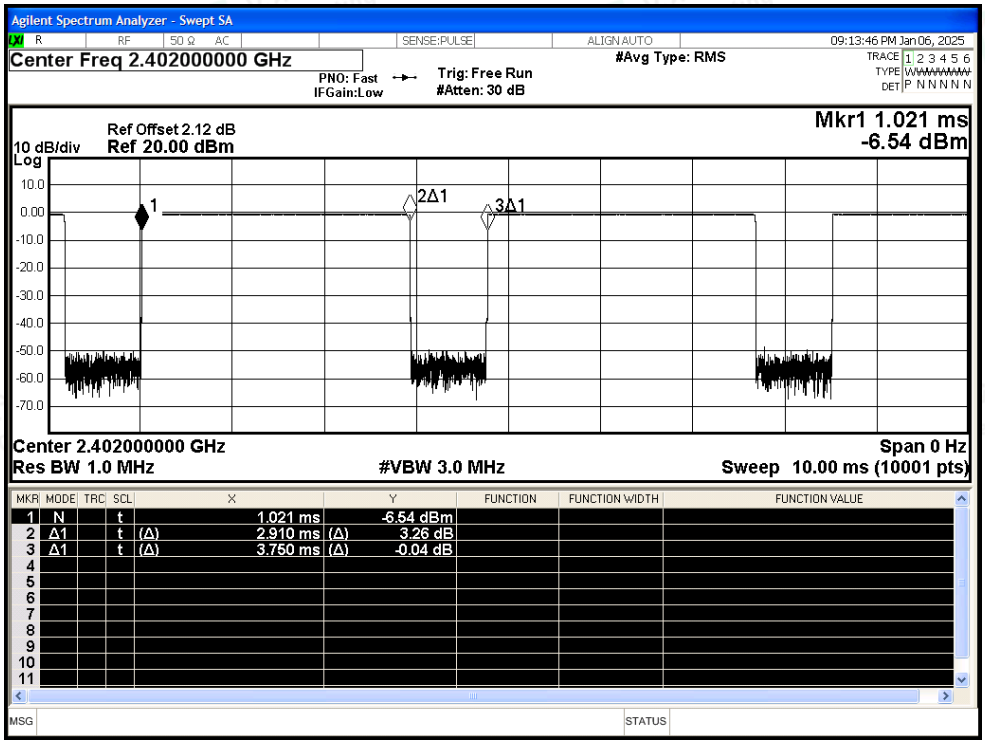


A.8 Duty Cycle

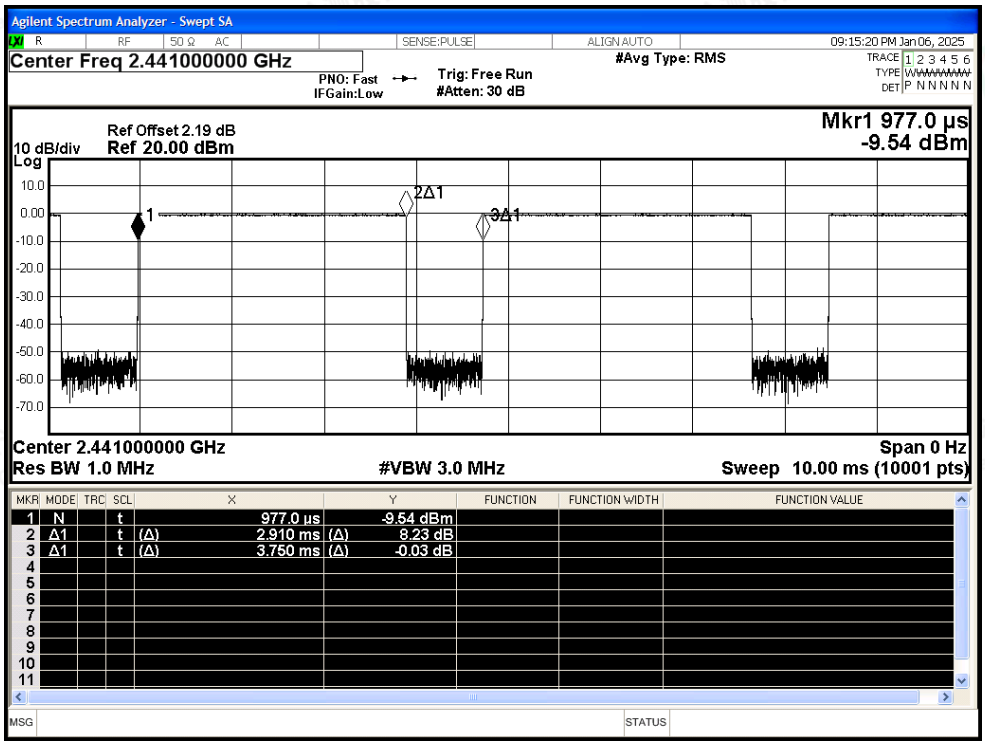
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant3	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant3	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant3	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant3	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant3	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant3	77.33	1.12	0.34
NVNT	3-DH5	2402	Ant3	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant3	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant3	77.23	1.12	0.35

Test Graphs

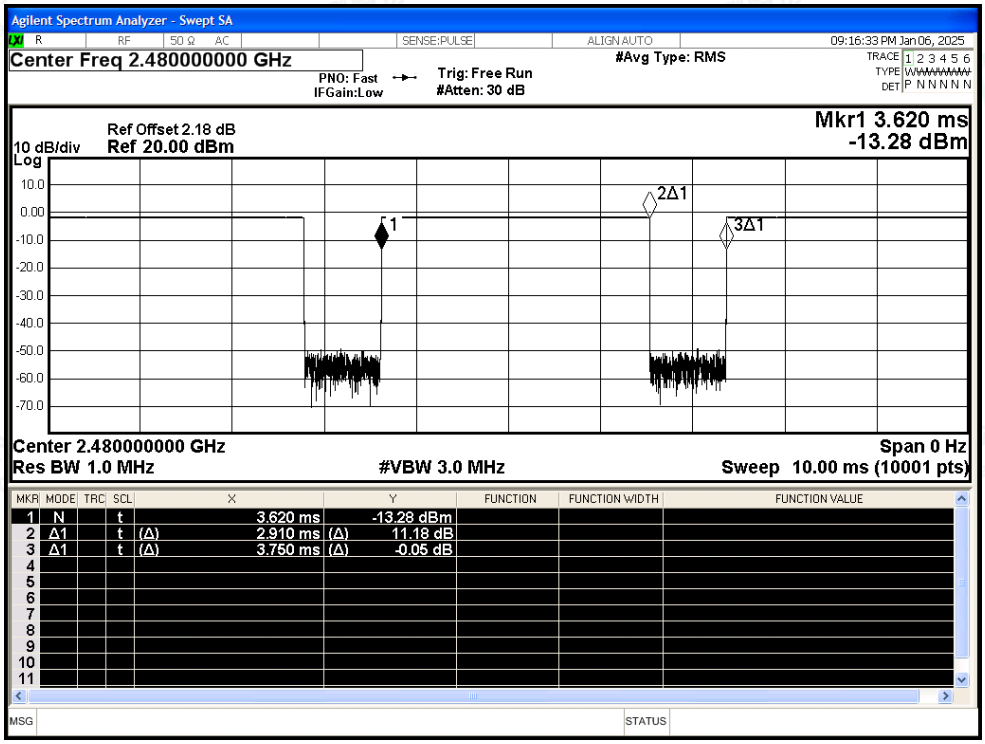
Duty Cycle NVNT 1-DH5 2402MHz Ant3



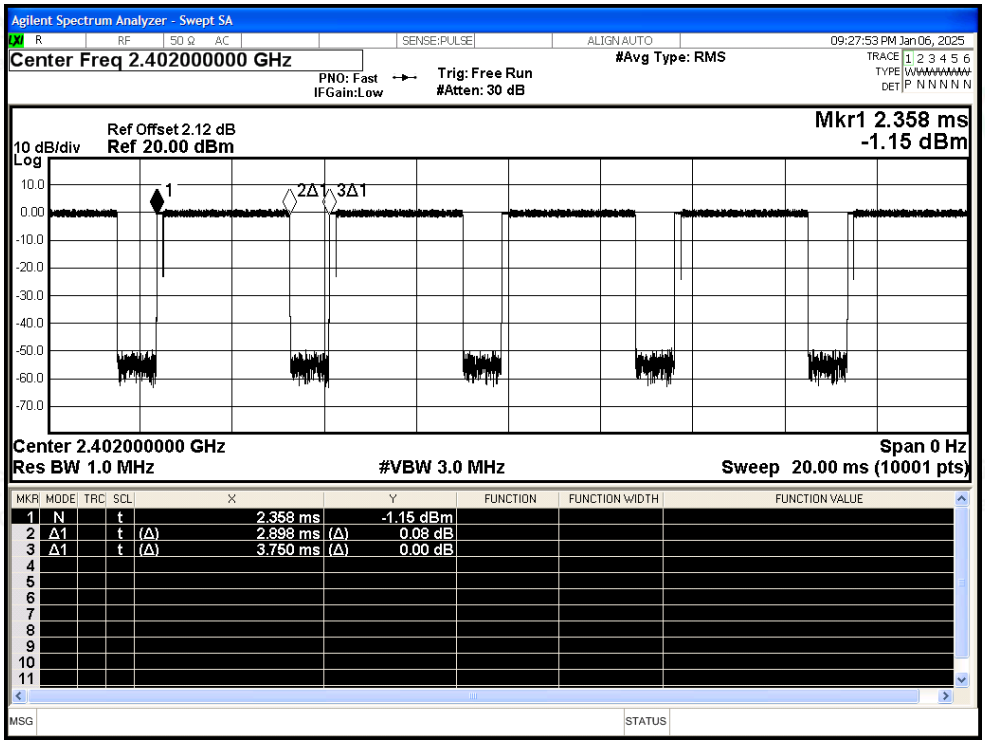
Duty Cycle NVNT 1-DH5 2441MHz Ant3



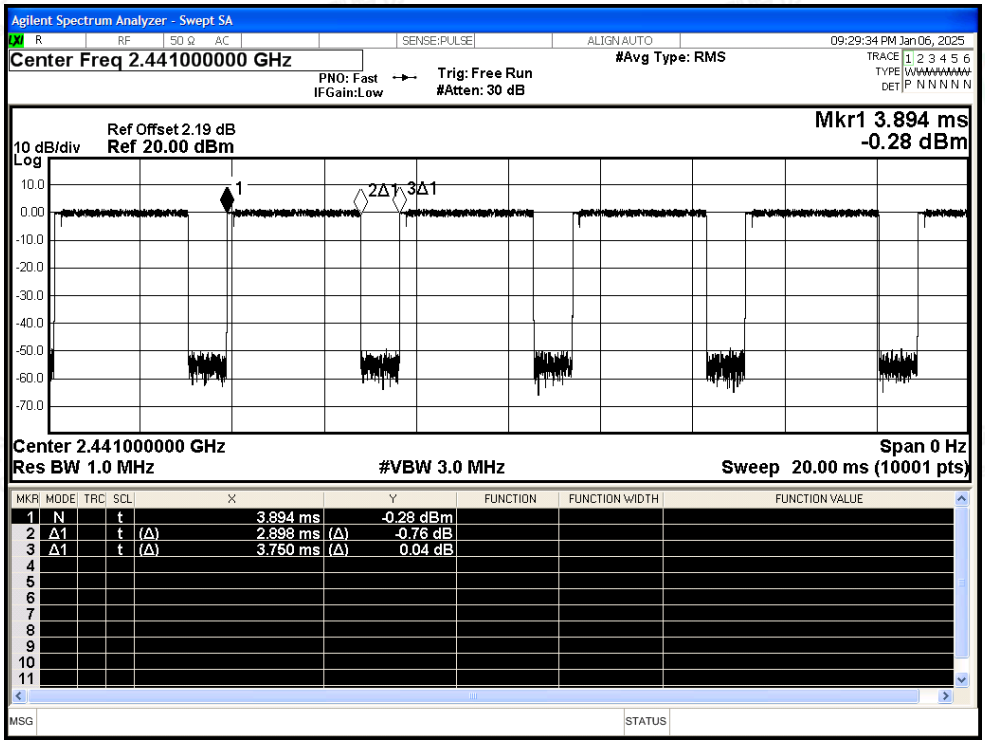
Duty Cycle NVNT 1-DH5 2480MHz Ant3



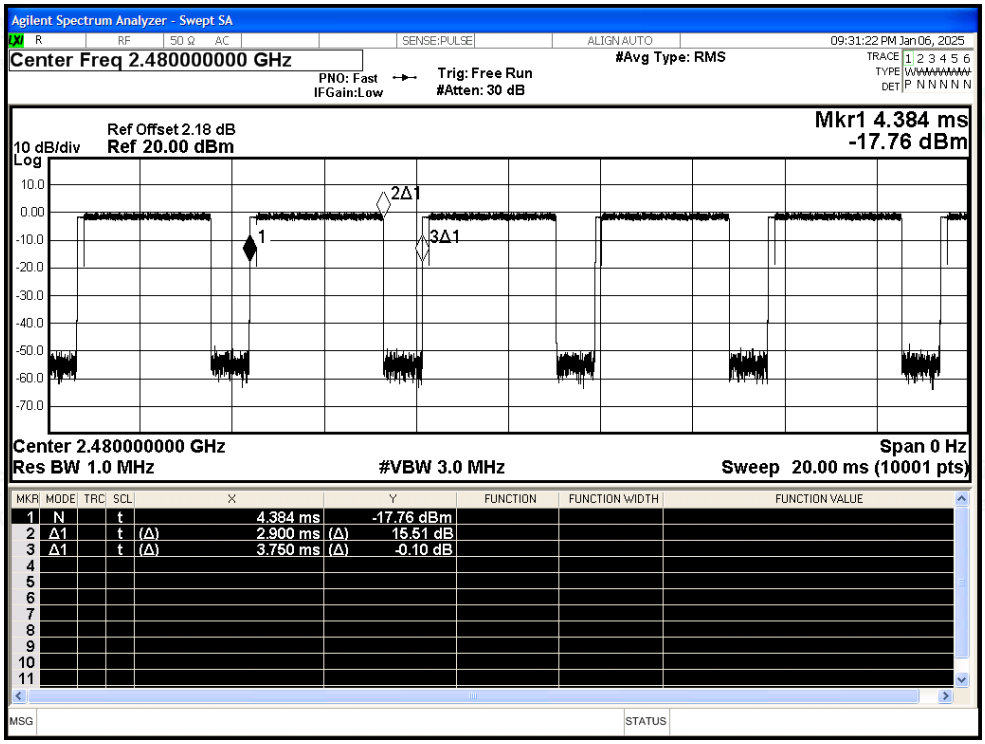
Duty Cycle NVNT 2-DH5 2402MHz Ant3



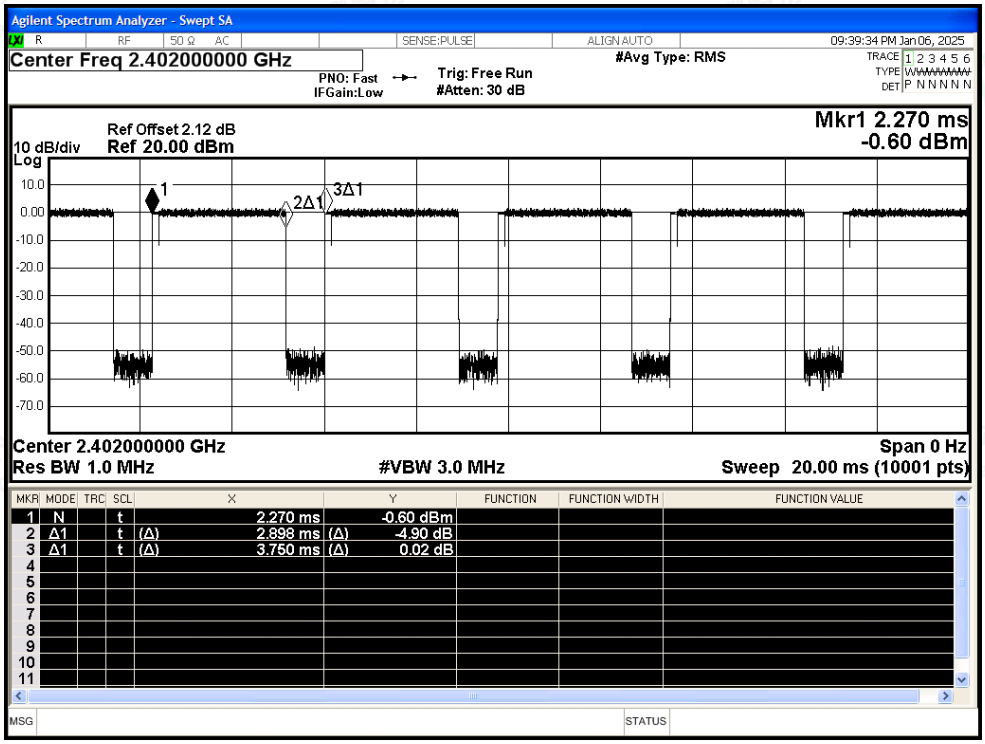
Duty Cycle NVNT 2-DH5 2441MHz Ant3



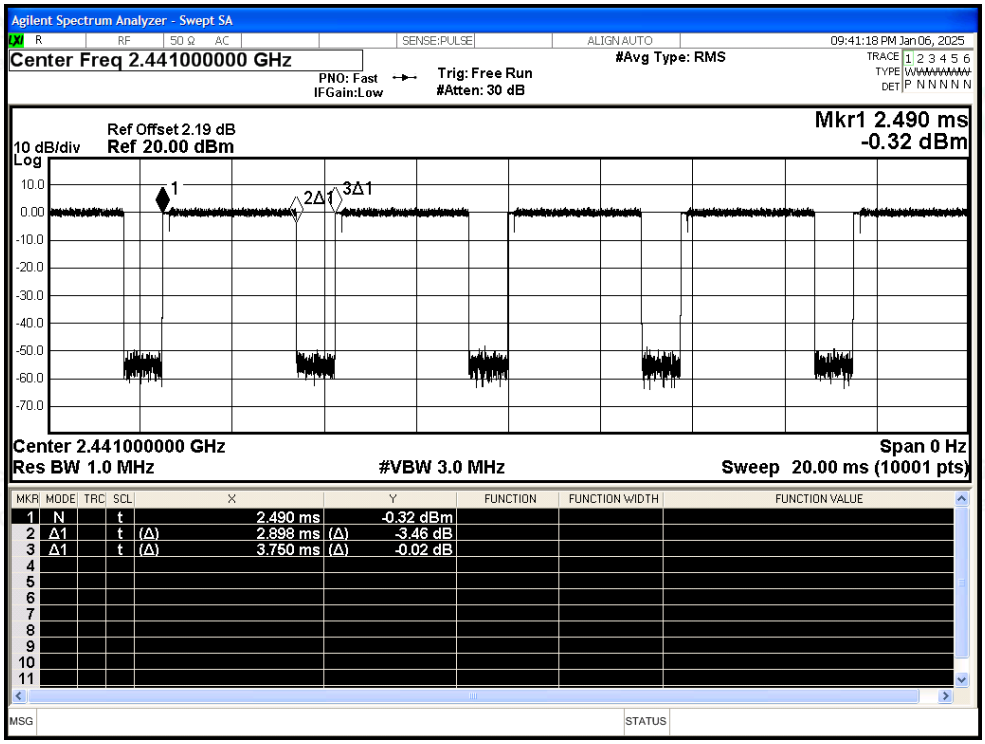
Duty Cycle NVNT 2-DH5 2480MHz Ant3



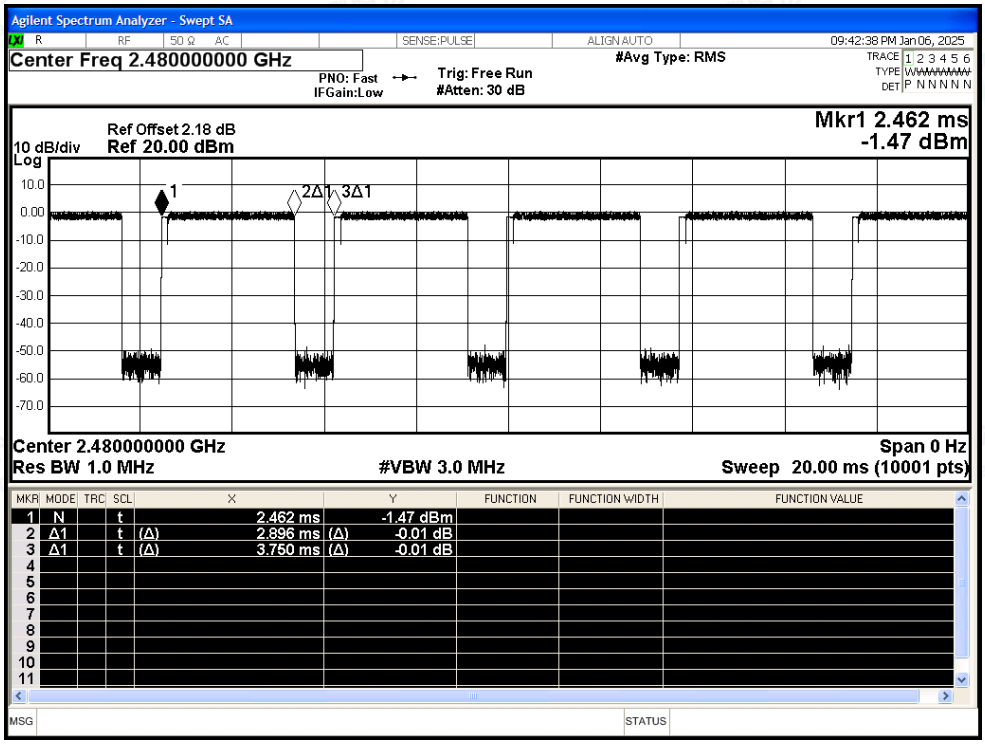
Duty Cycle NVNT 3-DH5 2402MHz Ant3



Duty Cycle NVNT 3-DH5 2441MHz Ant3



Duty Cycle NVNT 3-DH5 2480MHz Ant3

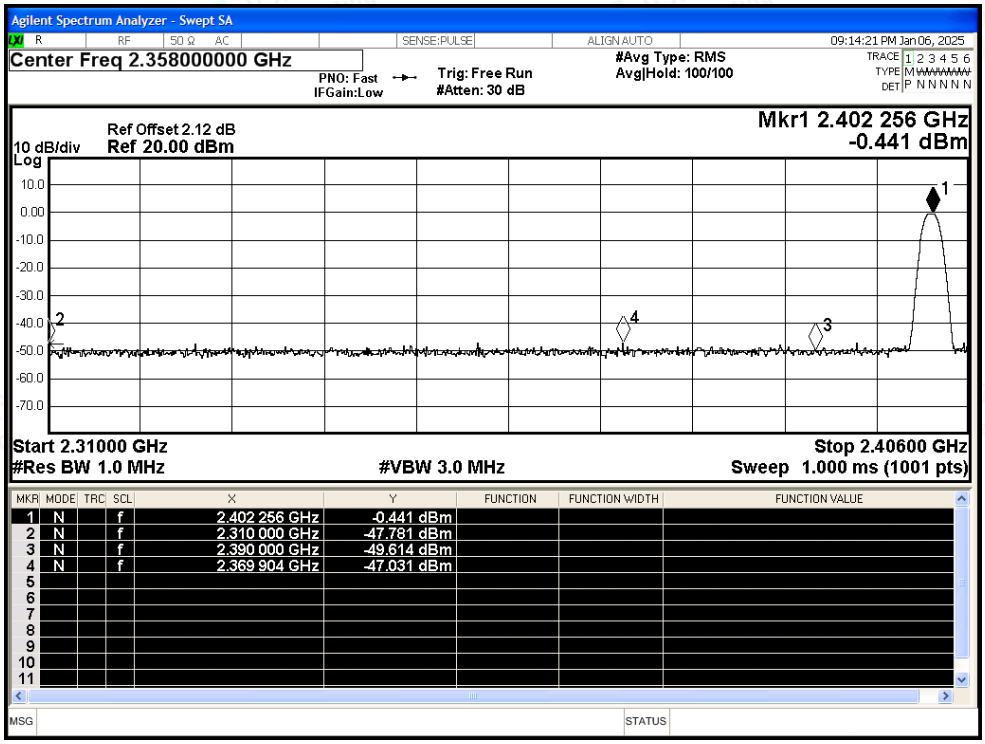


A.9 Restrict Band

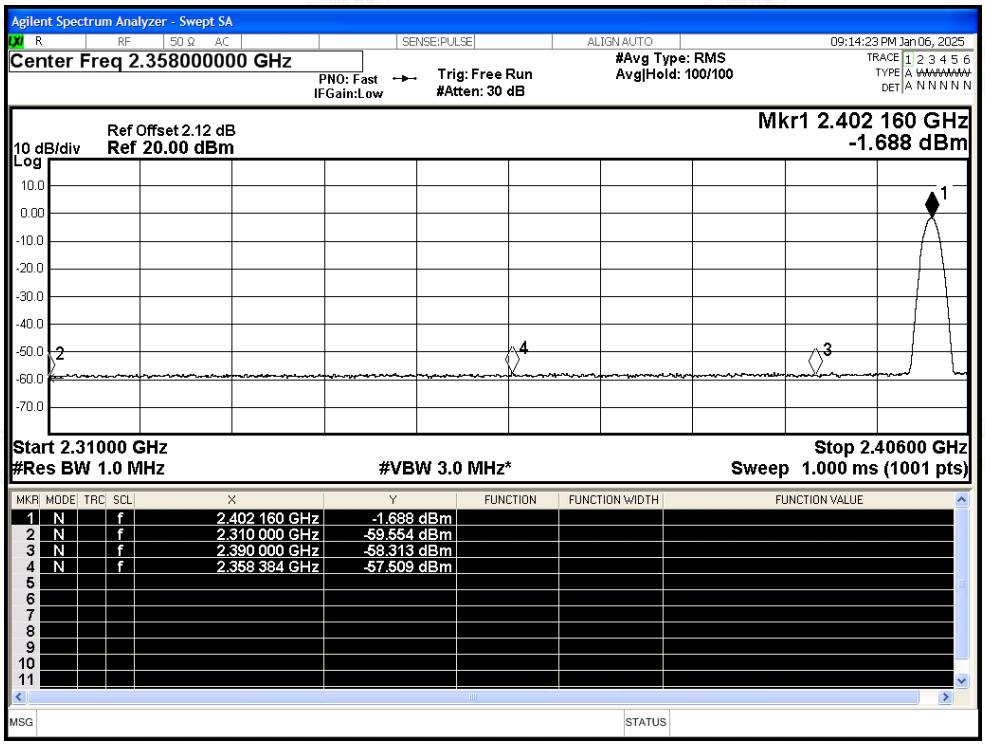
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant3	No-Hopping	2310	-47.78	2.0	-	49.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	2310	-59.55	2.0	1.1	38.81	Average	54	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	2369.904	-47.03	2.0	-	50.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	2358.384	-57.51	2.0	1.1	40.85	Average	54	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	2390	-49.61	2.0	-	47.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	2390	-58.31	2.0	1.1	40.05	Average	54	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2483.5	-50.04	2.0	-	47.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2483.5	-57.8	2.0	1.1	40.56	Average	54	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2484.088	-45.6	2.0	-	51.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2485.072	-56.96	2.0	1.1	41.4	Average	54	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2500	-49.67	2.0	-	47.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	2500	-58.48	2.0	1.1	39.88	Average	54	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2310	-51.82	2.0	-	45.44	Peak	74	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2310	-58.2	2.0	1.12	40.18	Average	54	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2355.6	-47.5	2.0	-	49.76	Peak	74	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2338.992	-57.68	2.0	1.12	40.7	Average	54	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2390	-51.86	2.0	-	45.4	Peak	74	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	2390	-58.4	2.0	1.12	39.98	Average	54	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2483.5	-49.41	2.0	-	47.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2483.5	-57.12	2.0	1.12	41.26	Average	54	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2484.376	-45.78	2.0	-	51.48	Peak	74	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2483.776	-57.03	2.0	1.12	41.35	Average	54	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2500	-51.1	2.0	-	46.16	Peak	74	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	2500	-58.1	2.0	1.12	40.28	Average	54	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2310	-50.19	2.0	-	47.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2310	-58.45	2.0	1.12	39.93	Average	54	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2350.224	-47.45	2.0	-	49.81	Peak	74	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2330.832	-57.56	2.0	1.12	40.82	Average	54	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2390	-51.37	2.0	-	45.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	2390	-58.11	2.0	1.12	40.27	Average	54	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2483.5	-49.34	2.0	-	47.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2483.5	-57.51	2.0	1.12	40.87	Average	54	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2485.36	-44.77	2.0	-	52.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2483.584	-56.76	2.0	1.12	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2500	-50.95	2.0	-	46.31	Peak	74	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	2500	-57.58	2.0	1.12	40.8	Average	54	Pass

Test Graphs

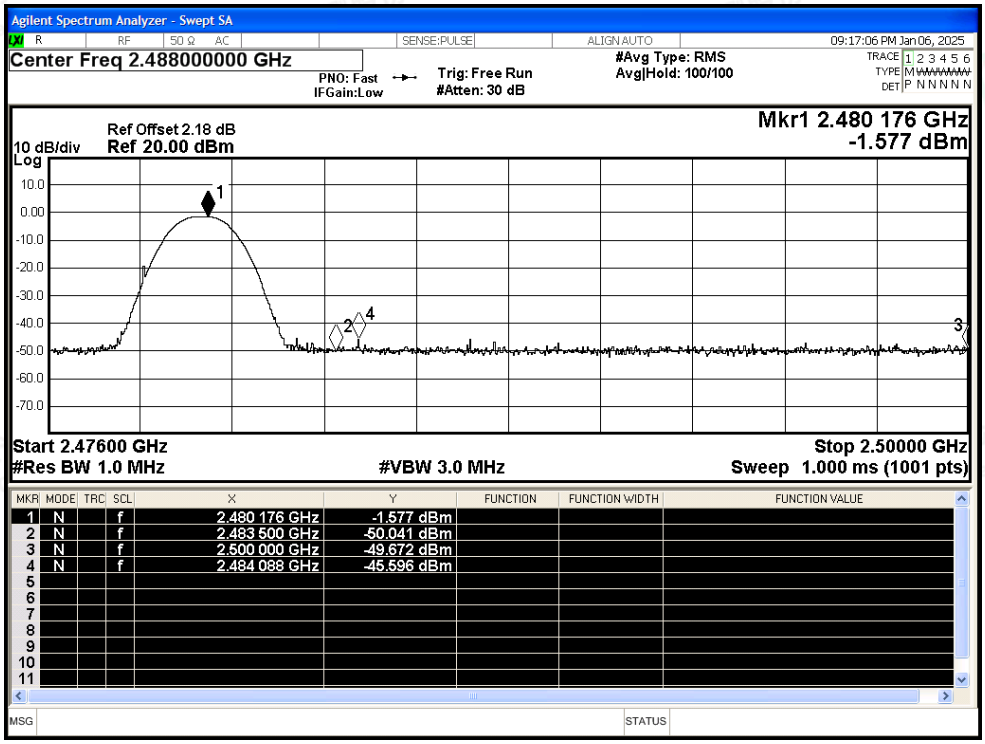
Restrict Band NVNT 1-DH5 2402MHz Ant3 No-Hopping Peak



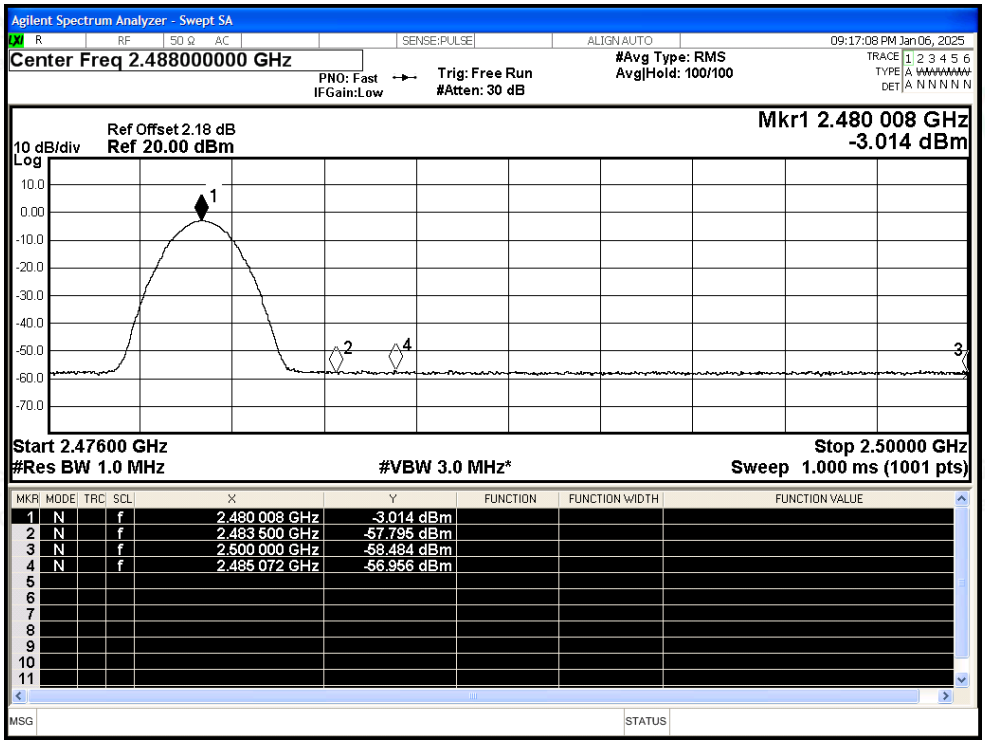
Restrict Band NVNT 1-DH5 2402MHz Ant3 No-Hopping Average



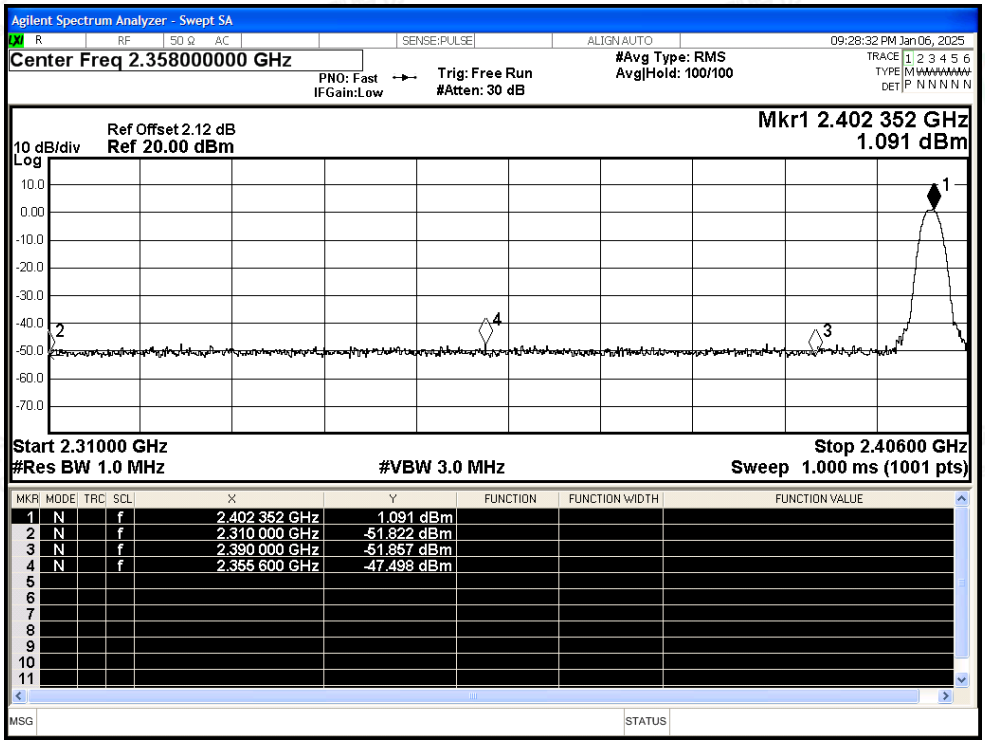
Restrict Band NVNT 1-DH5 2480MHz Ant3 No-Hopping Peak



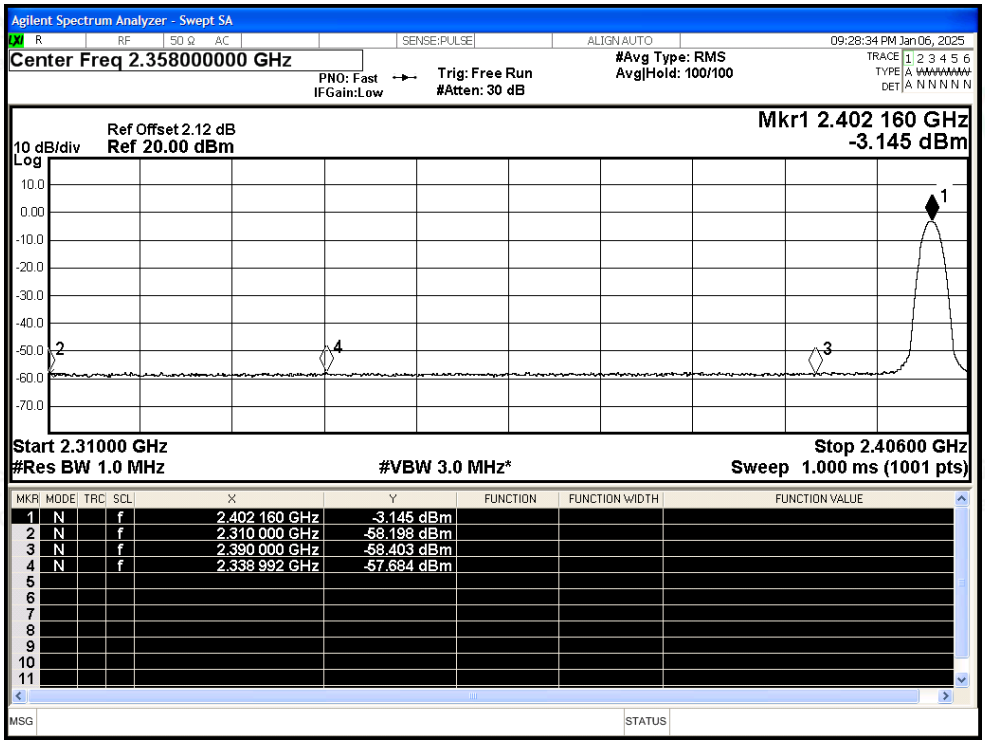
Restrict Band NVNT 1-DH5 2480MHz Ant3 No-Hopping Average



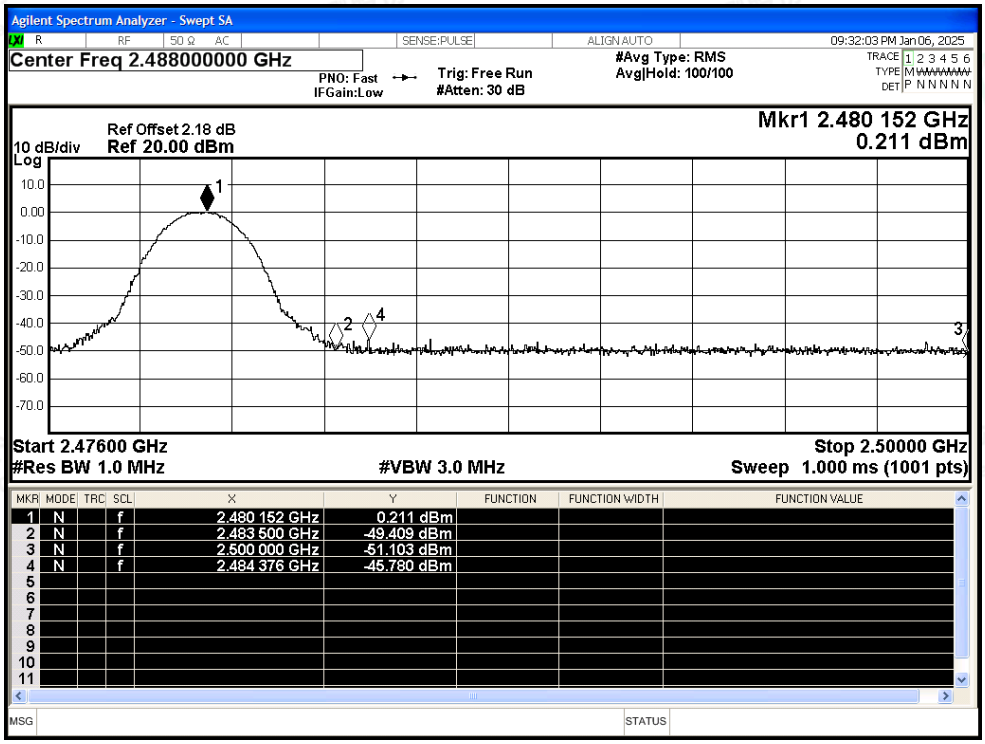
Restrict Band NVNT 2-DH5 2402MHz Ant3 No-Hopping Peak



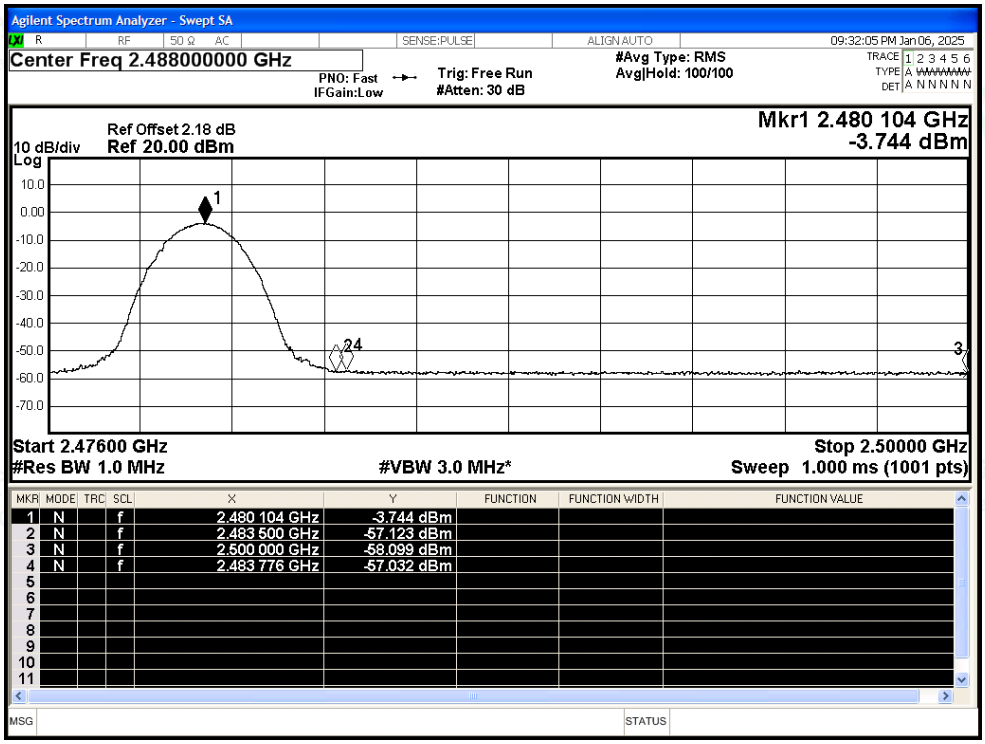
Restrict Band NVNT 2-DH5 2402MHz Ant3 No-Hopping Average



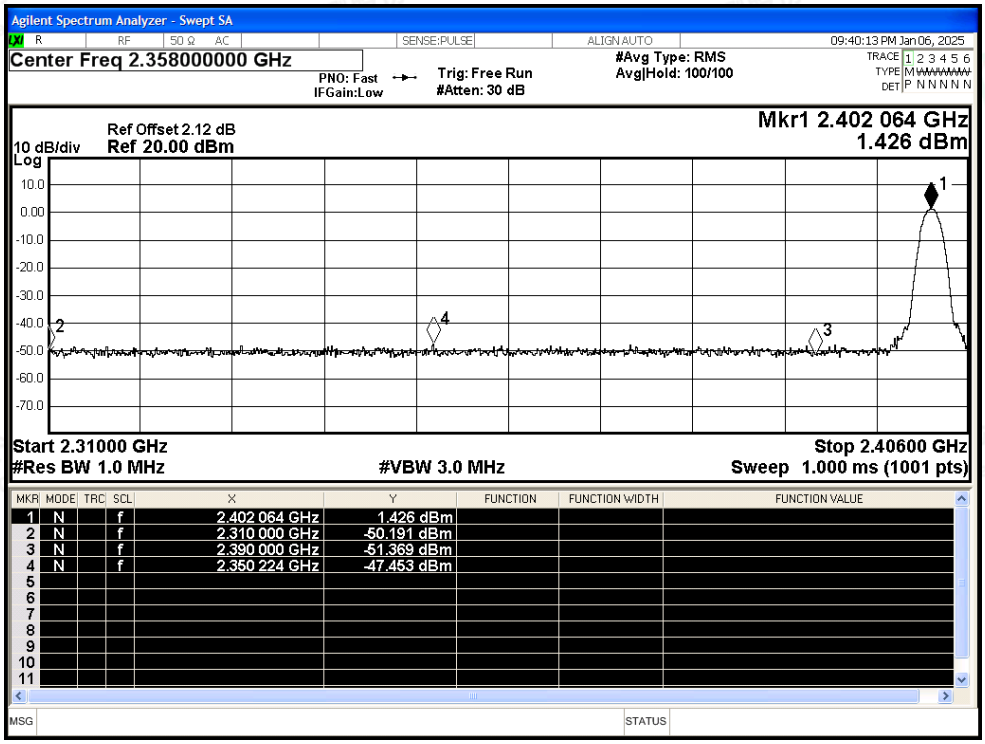
Restrict Band NVNT 2-DH5 2480MHz Ant3 No-Hopping Peak



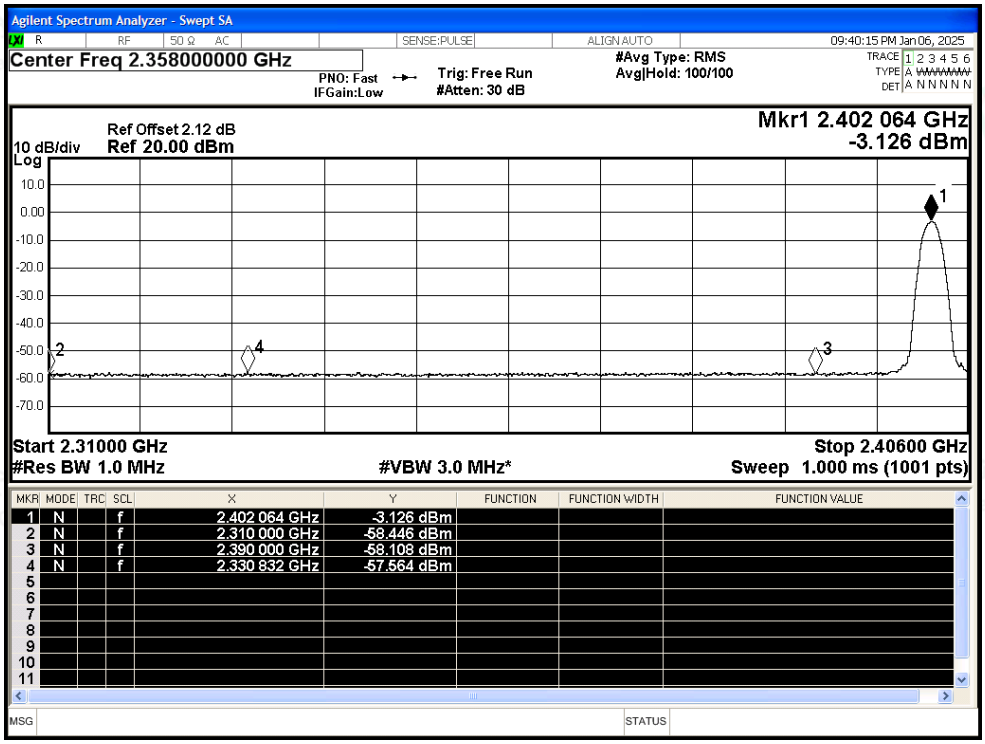
Restrict Band NVNT 2-DH5 2480MHz Ant3 No-Hopping Average



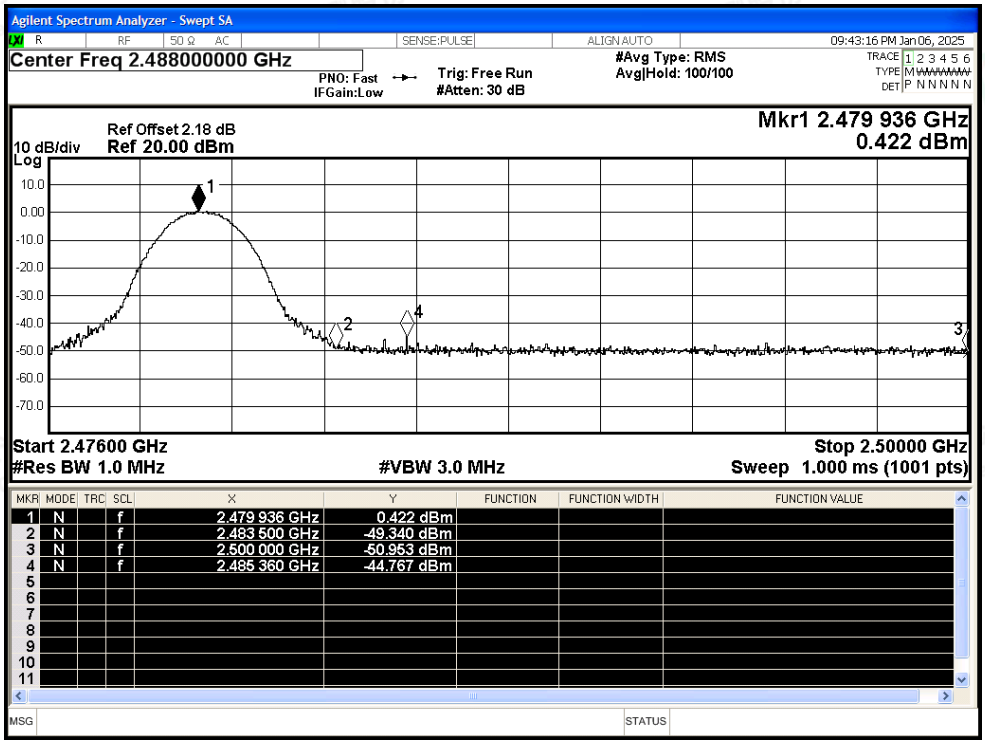
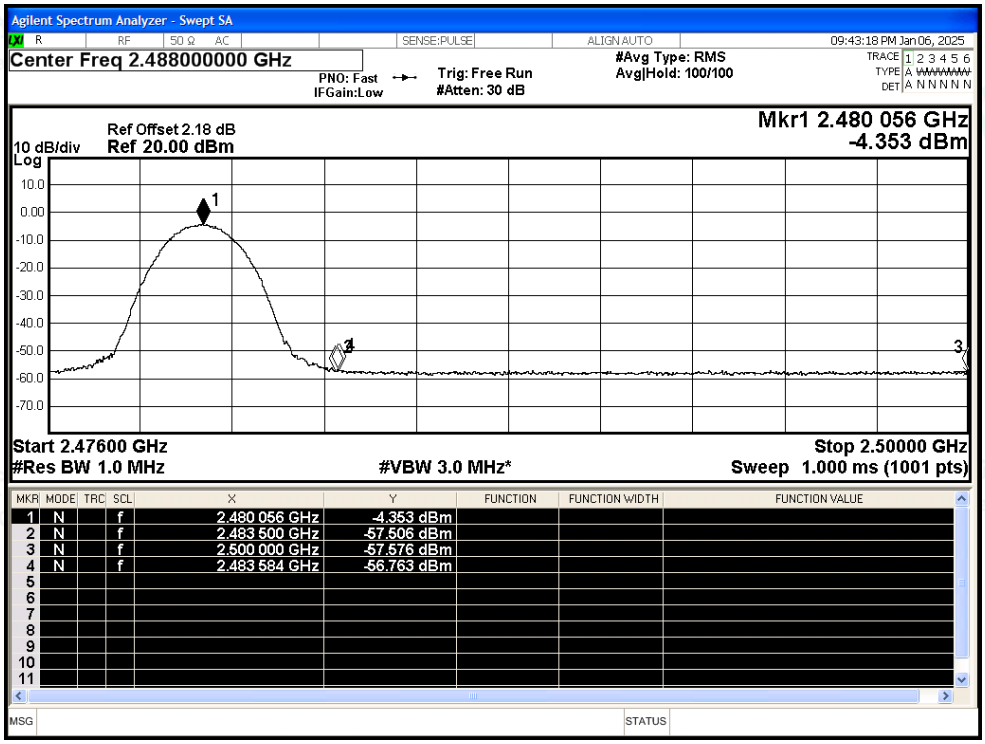
Restrict Band NVNT 3-DH5 2402MHz Ant3 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant3 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant3 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant3 No-Hopping Average