Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: All-In-One Bluetooth Sound System

Test Model: RM-K666

Environmental Conditions

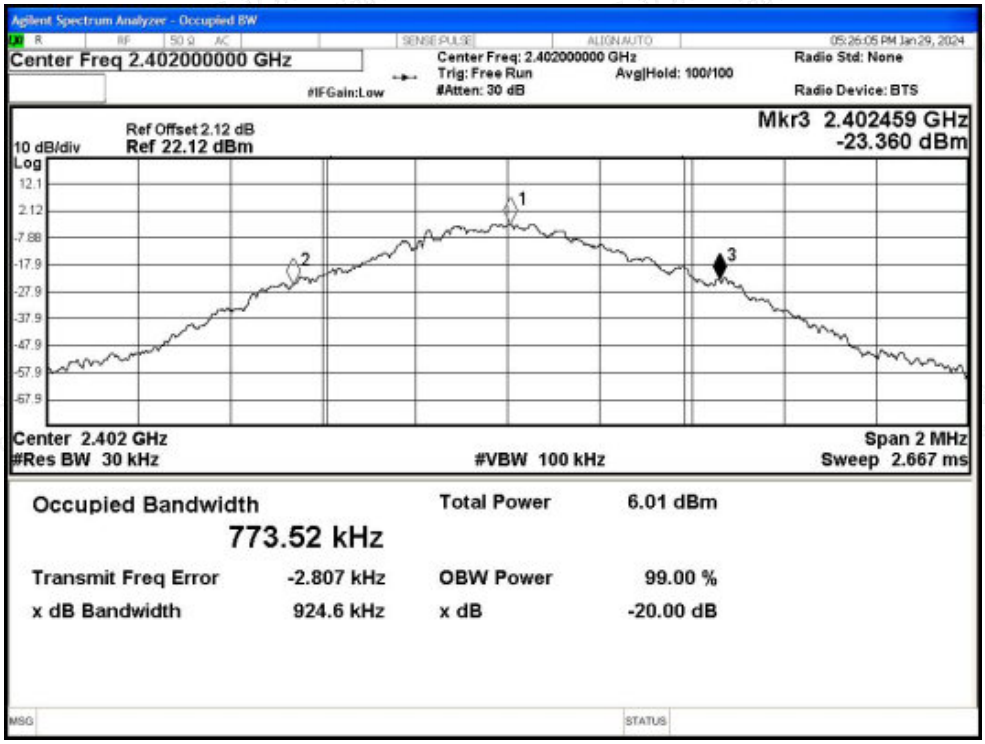
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng Nick Peng
Supervised by:	Eason Zhou Eason Zhou

A.1 -20dB Bandwidth

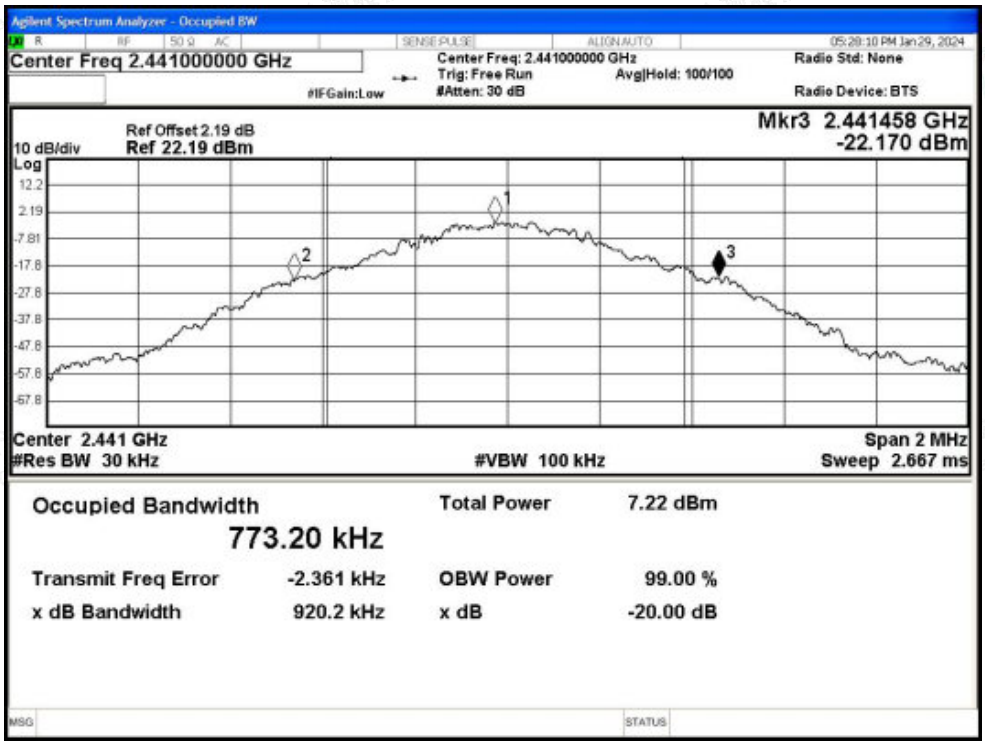
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.925	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.92	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.847	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.311	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.271	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.288	N/A	Pass

Test Graphs

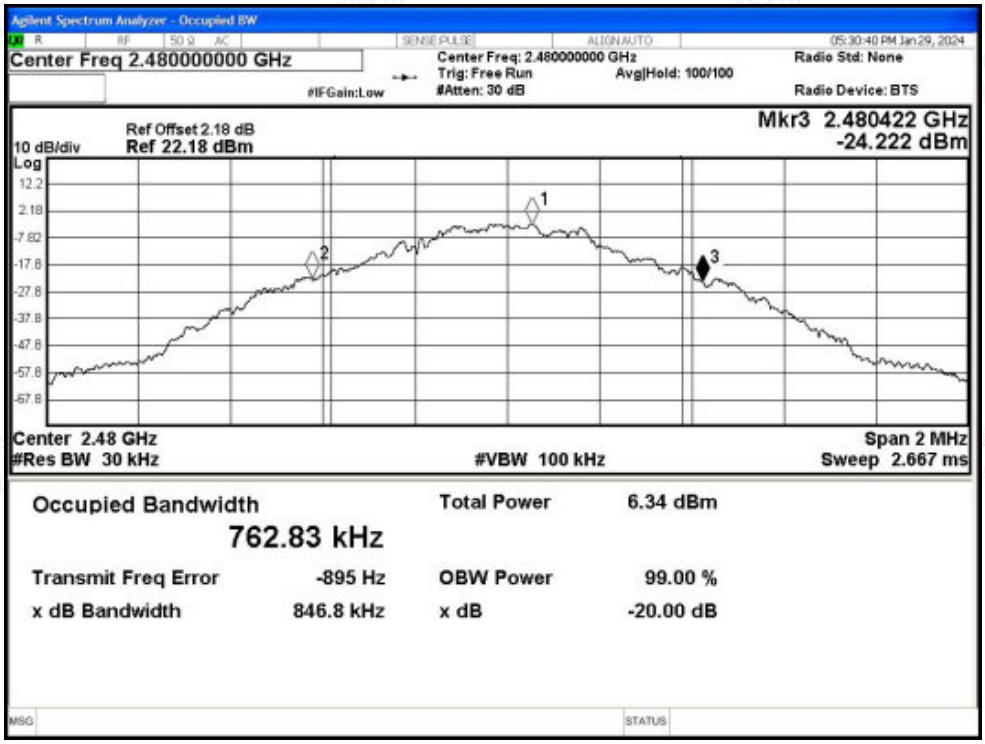
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



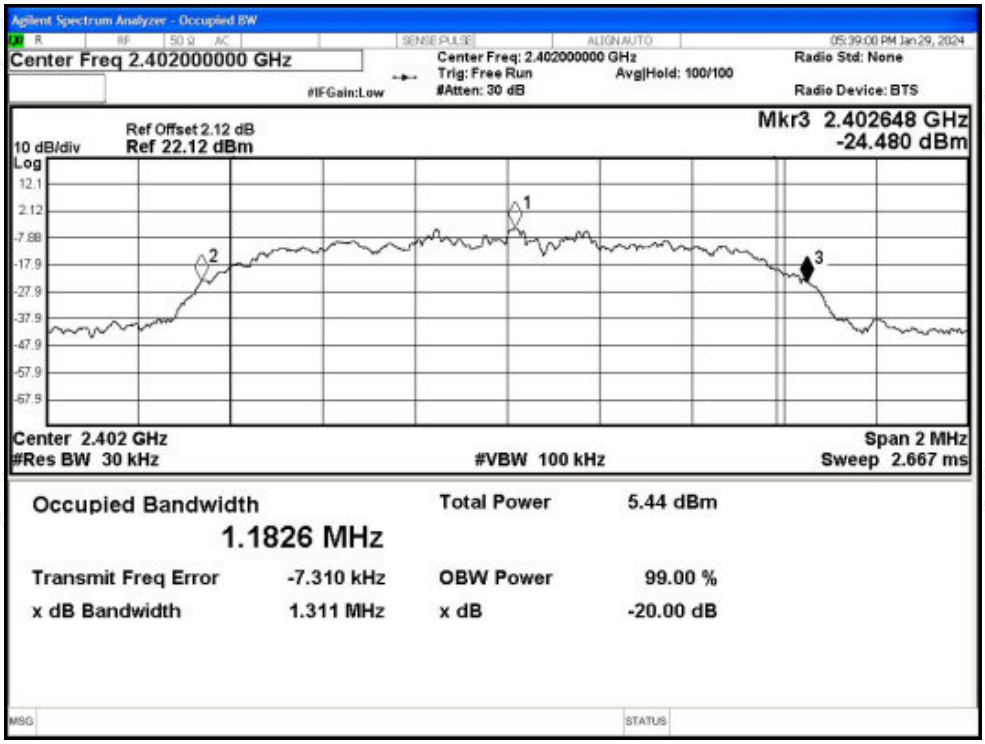
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



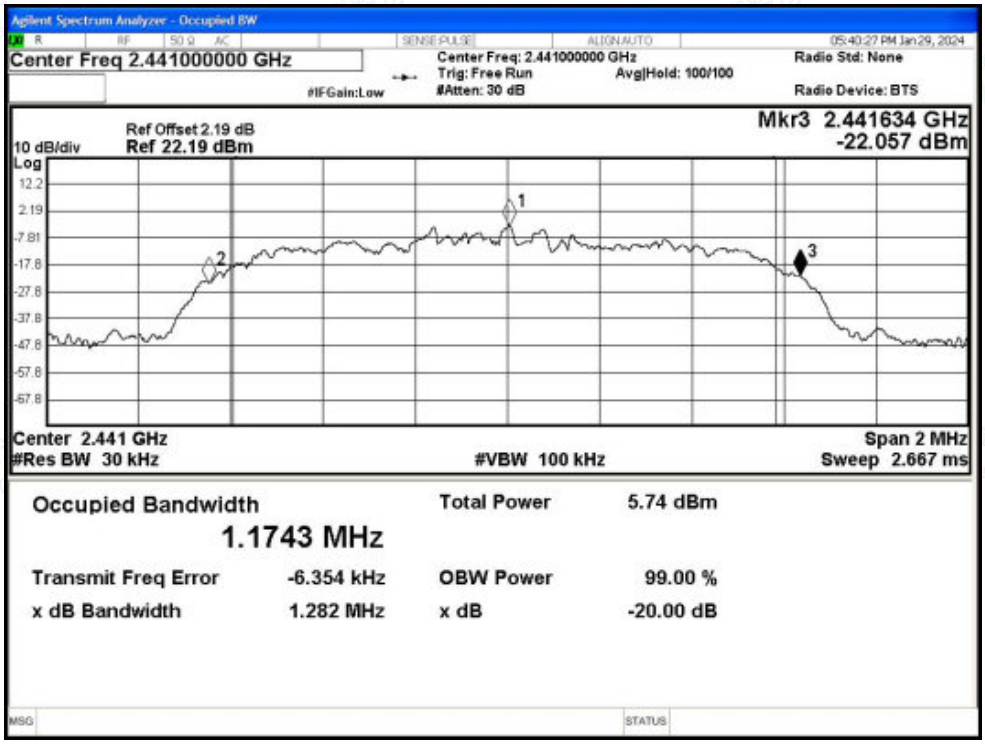
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



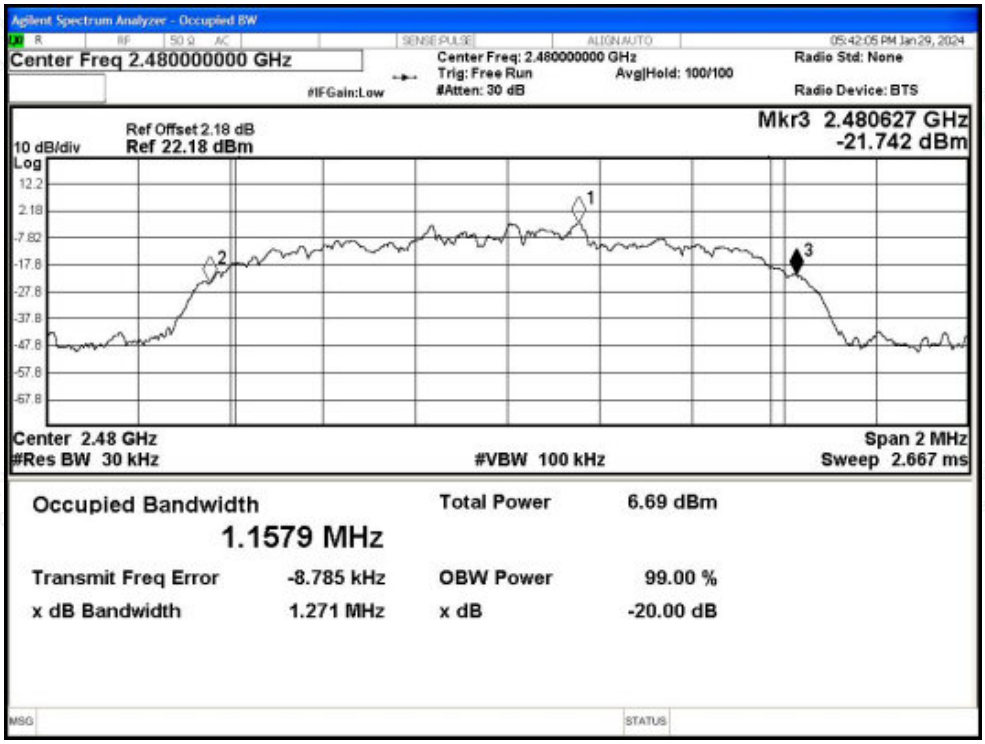
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



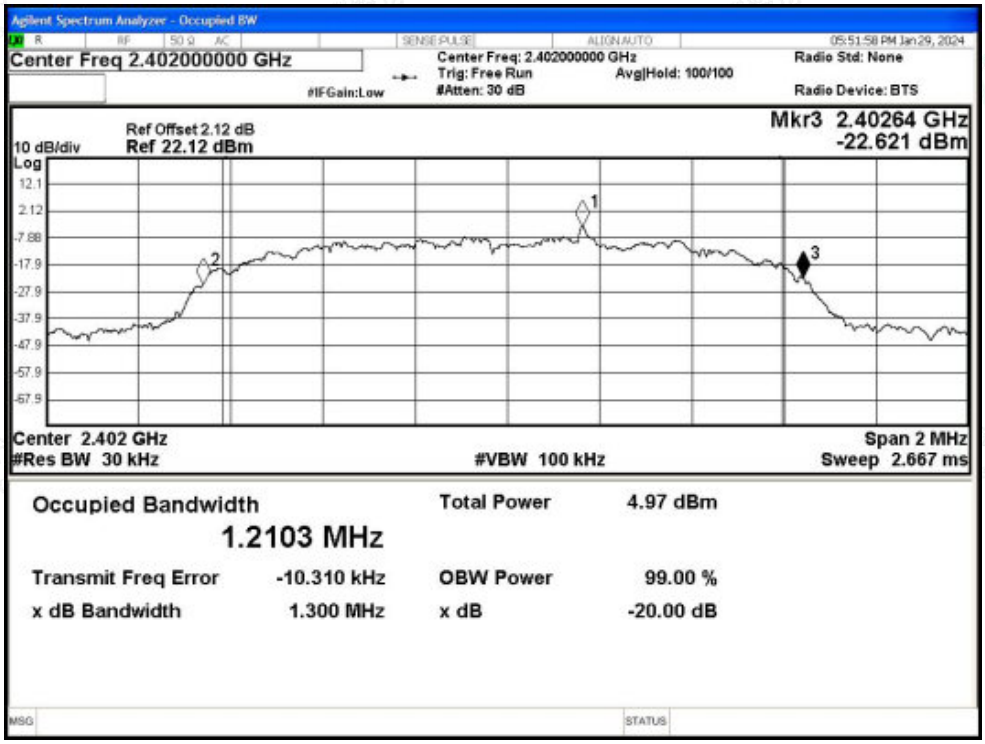
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



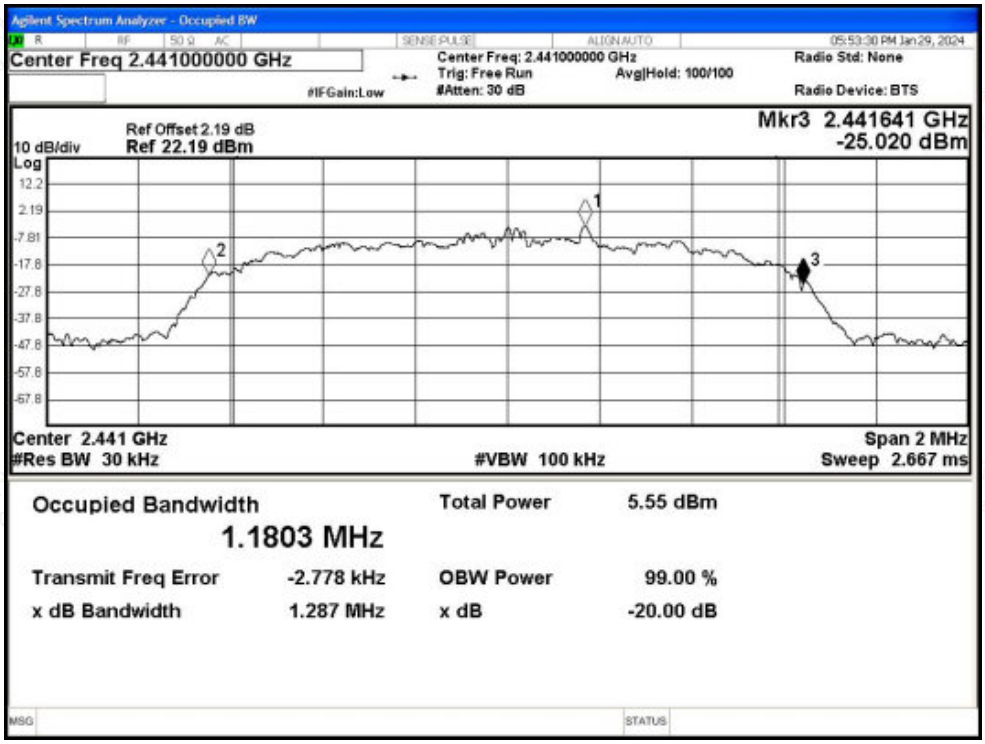
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



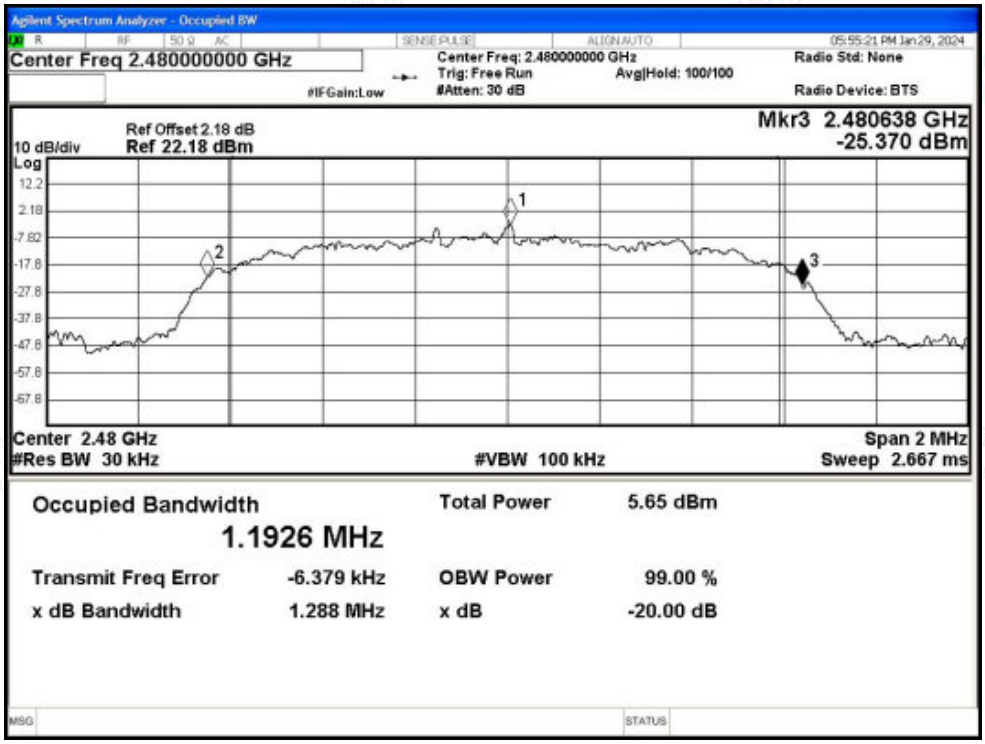
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

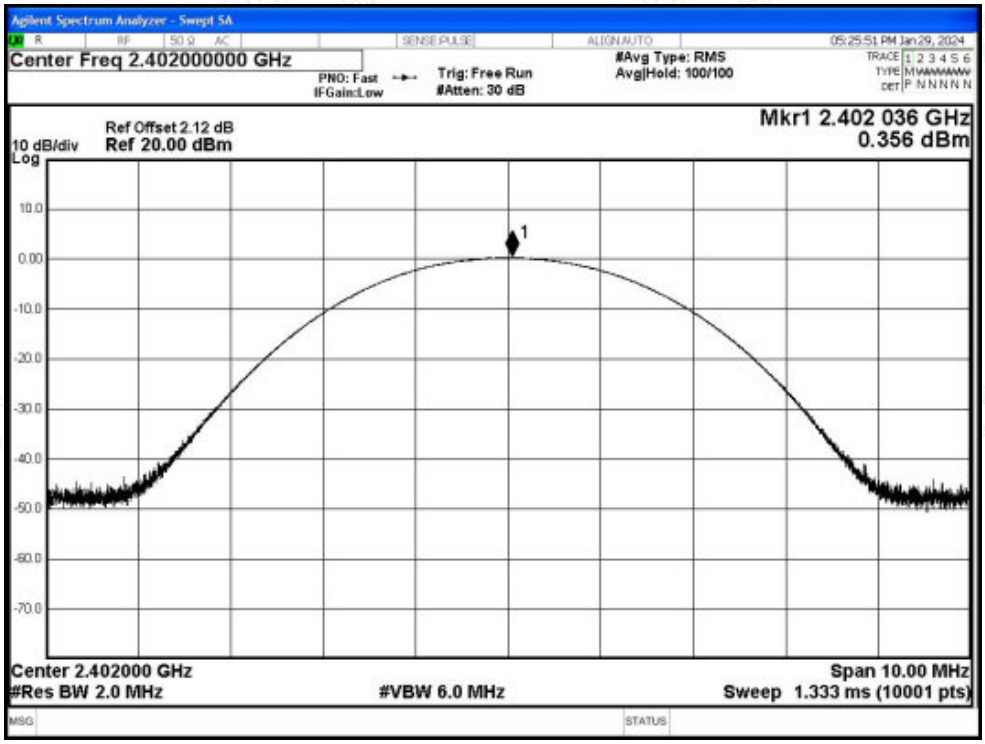


A.2 Maximum Conducted Output Power

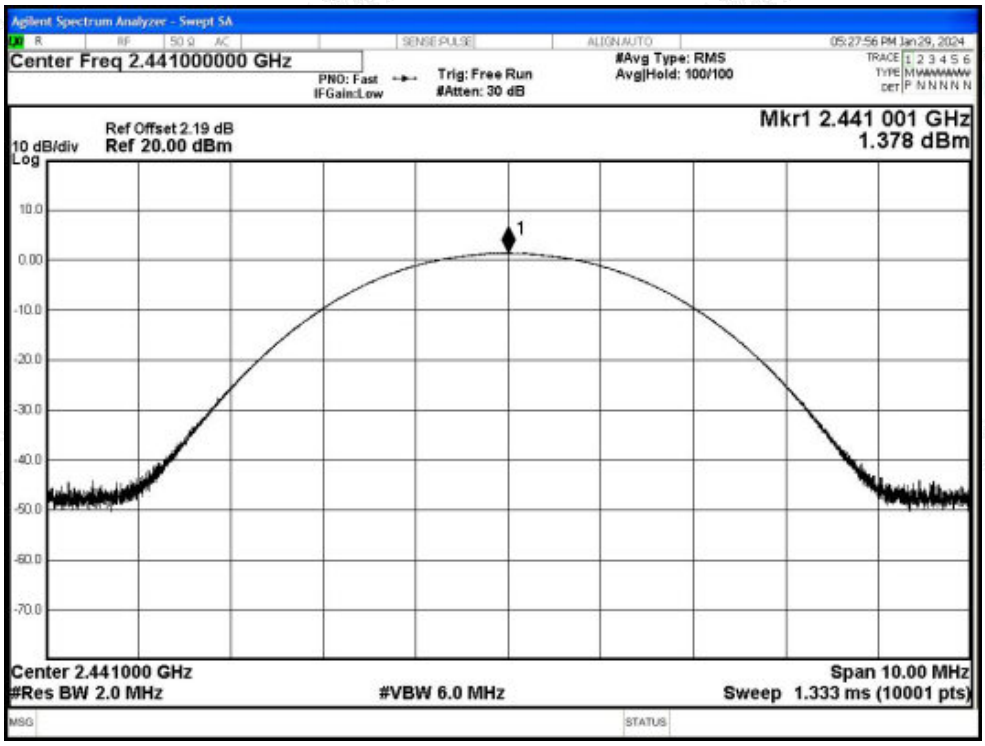
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.36	21	Pass
NVNT	1-DH5	2441	Ant1	1.38	21	Pass
NVNT	1-DH5	2480	Ant1	-0.76	21	Pass
NVNT	2-DH5	2402	Ant1	0.84	21	Pass
NVNT	2-DH5	2441	Ant1	1.09	21	Pass
NVNT	2-DH5	2480	Ant1	1.58	21	Pass
NVNT	3-DH5	2402	Ant1	0.92	21	Pass
NVNT	3-DH5	2441	Ant1	1.01	21	Pass
NVNT	3-DH5	2480	Ant1	1.52	21	Pass

Test Graphs

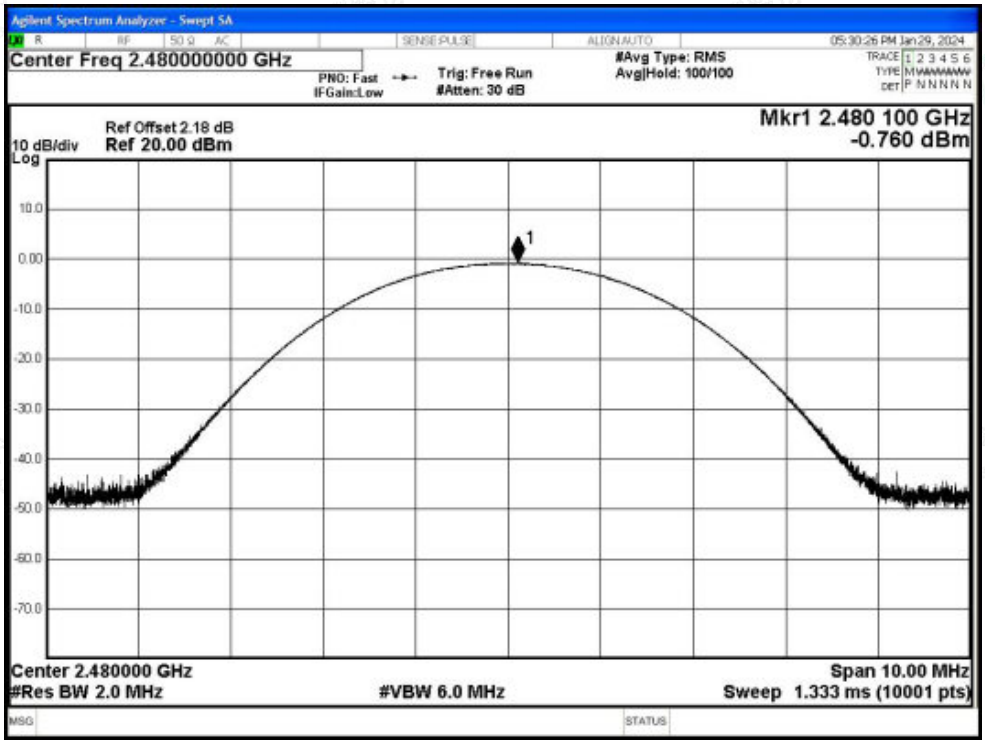
Power NVNT 1-DH5 2402MHz Ant1



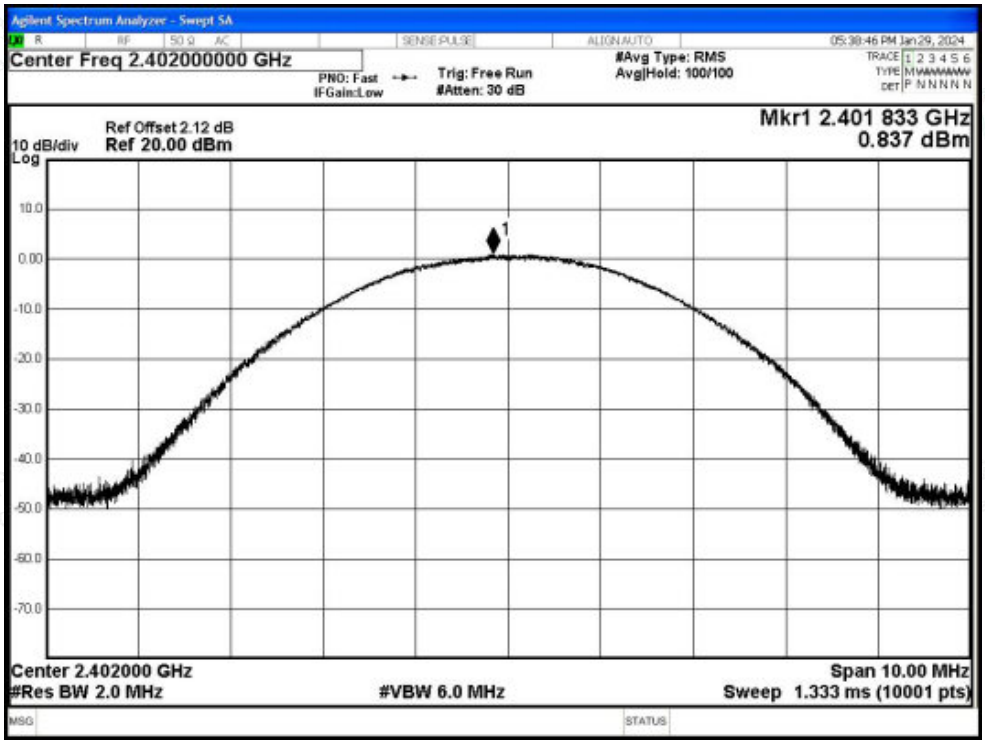
Power NVNT 1-DH5 2441MHz Ant1



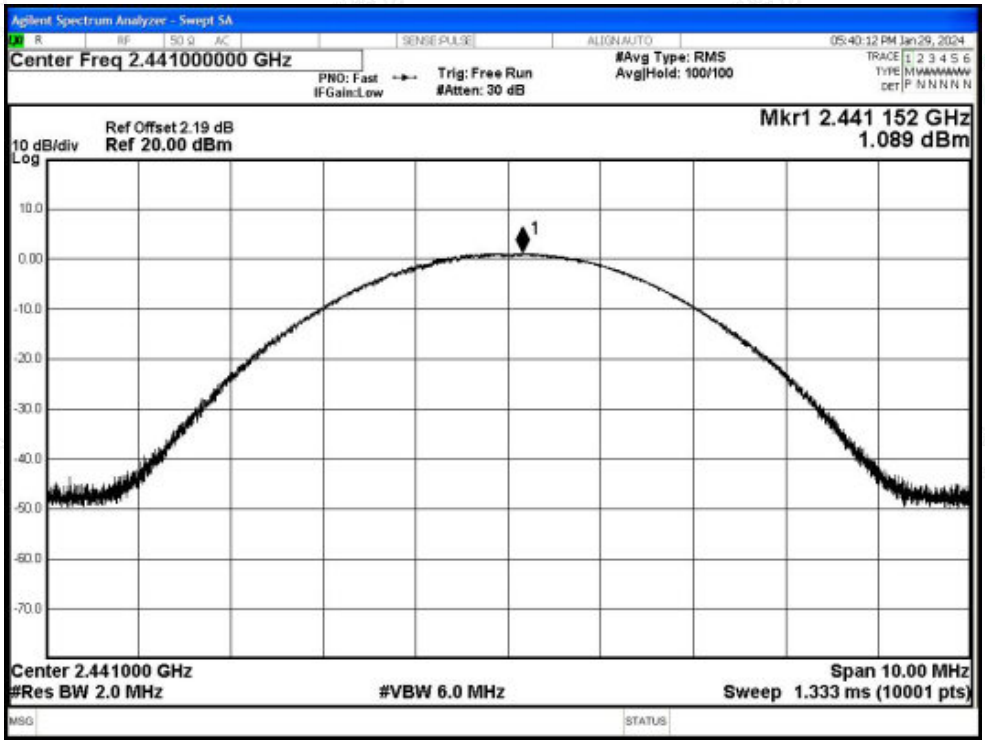
Power NVNT 1-DH5 2480MHz Ant1



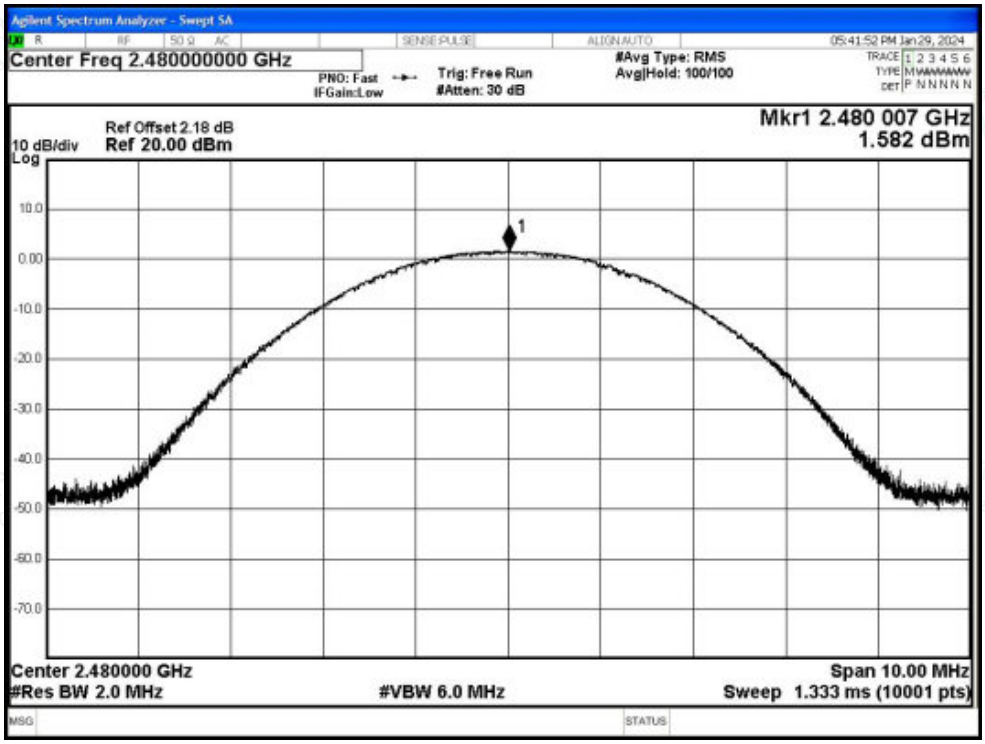
Power NVNT 2-DH5 2402MHz Ant1



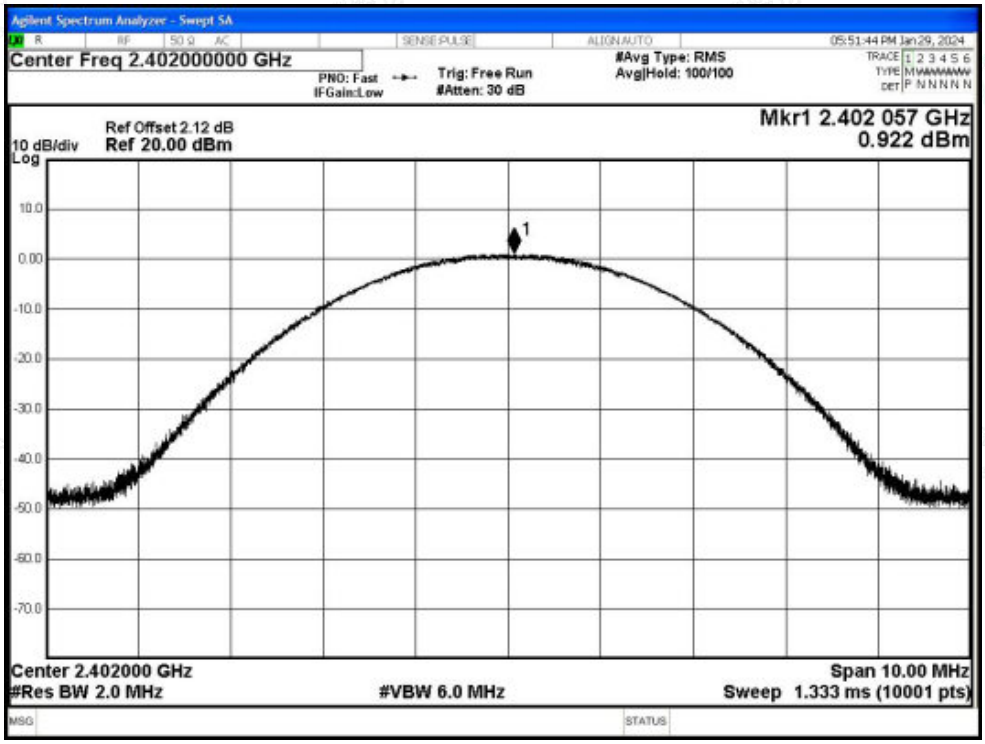
Power NVNT 2-DH5 2441MHz Ant1



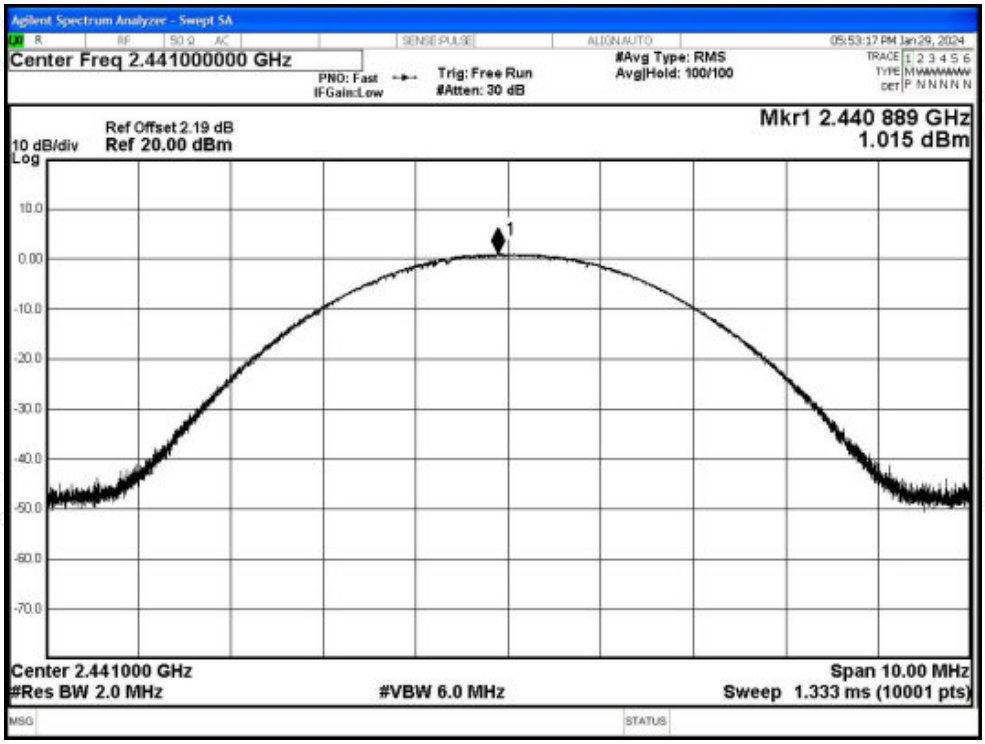
Power NVNT 2-DH5 2480MHz Ant1



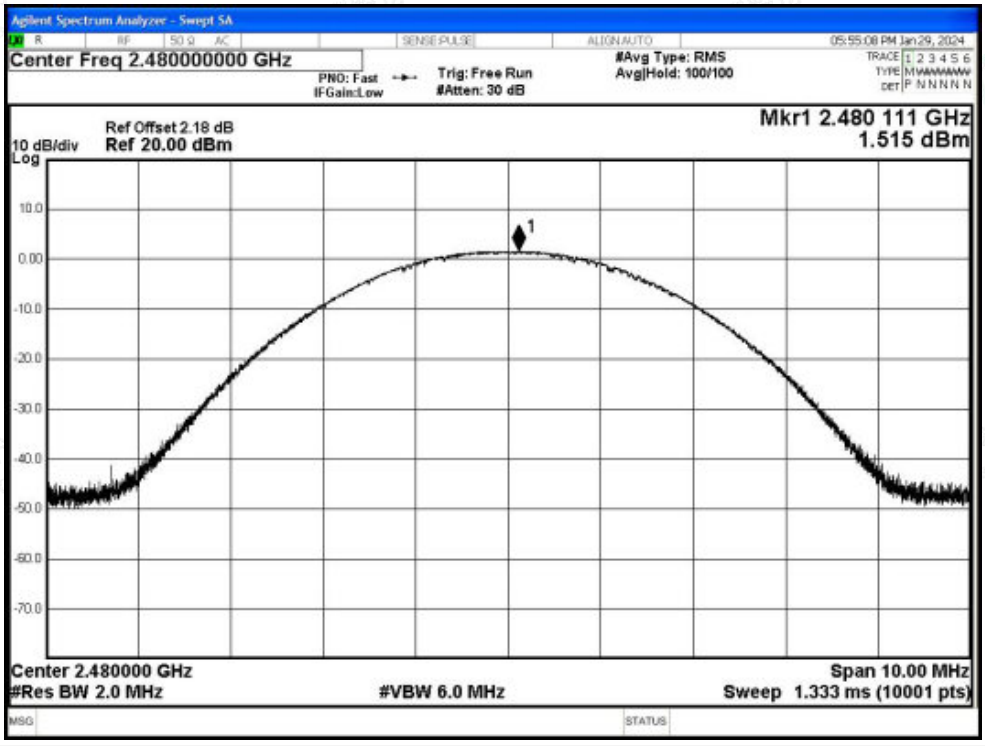
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

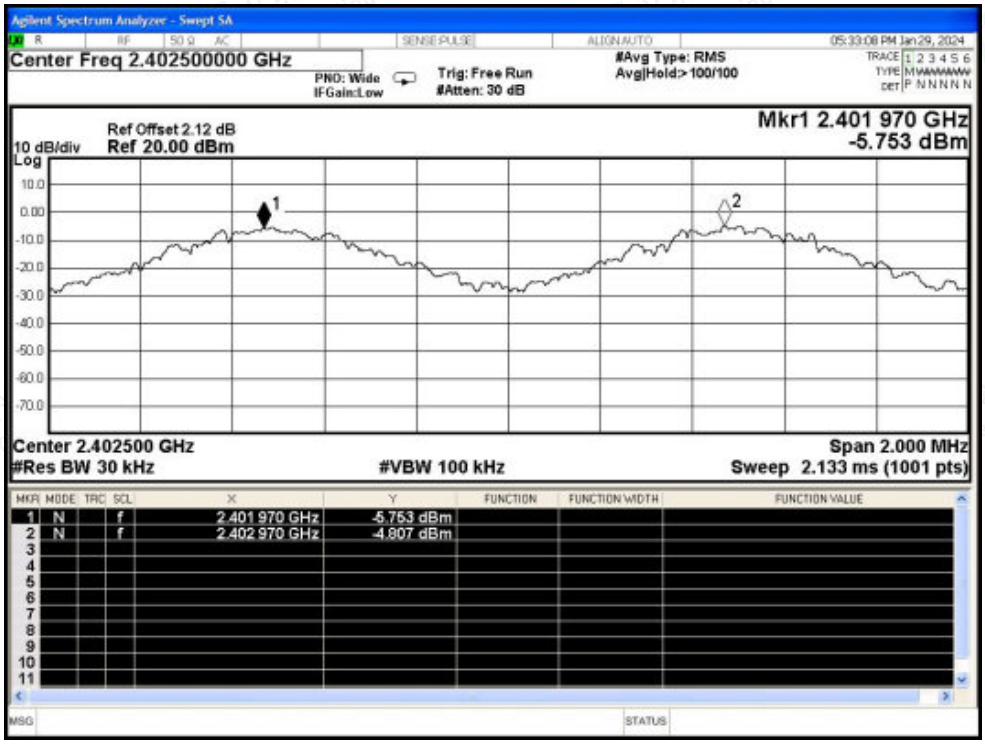


A.3 Carrier Frequencies Separation

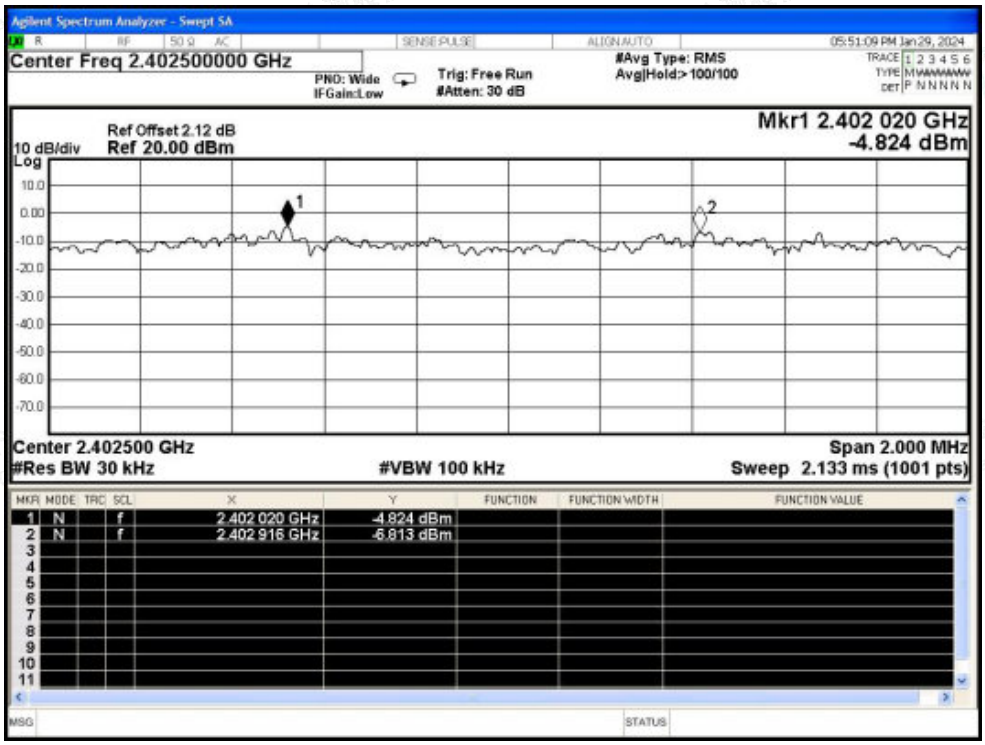
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.97	2402.97	1	0.617	Pass
NVNT	2-DH5	Ant1	2402.02	2402.916	0.896	0.874	Pass
NVNT	3-DH5	Ant1	2402.154	2403.164	1.01	0.867	Pass

Test Graphs

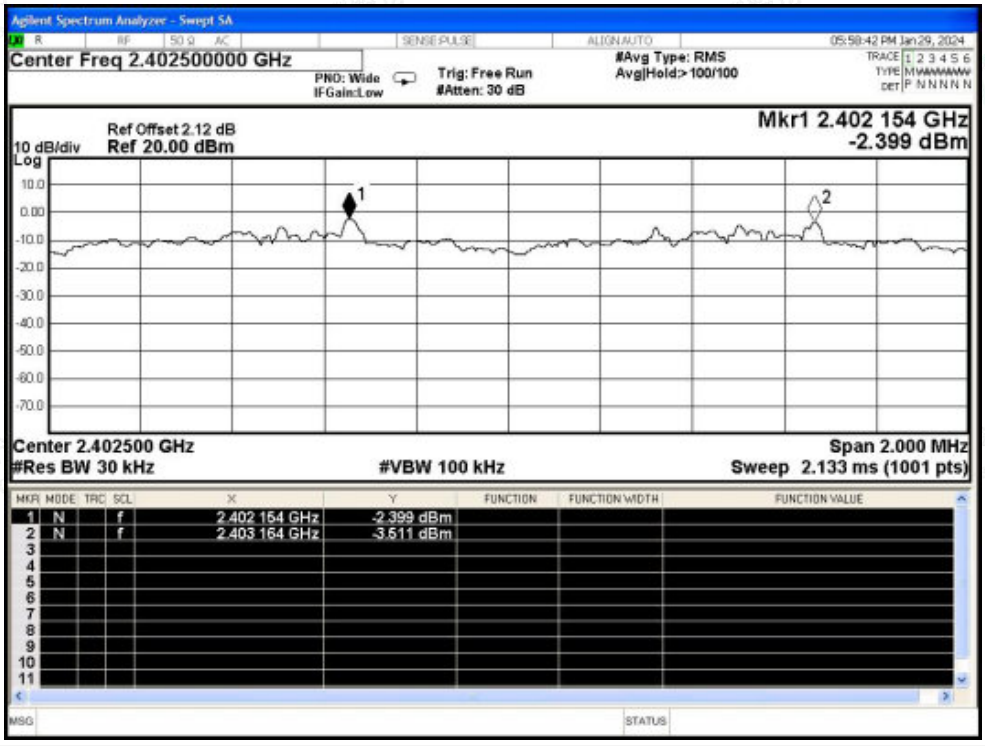
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

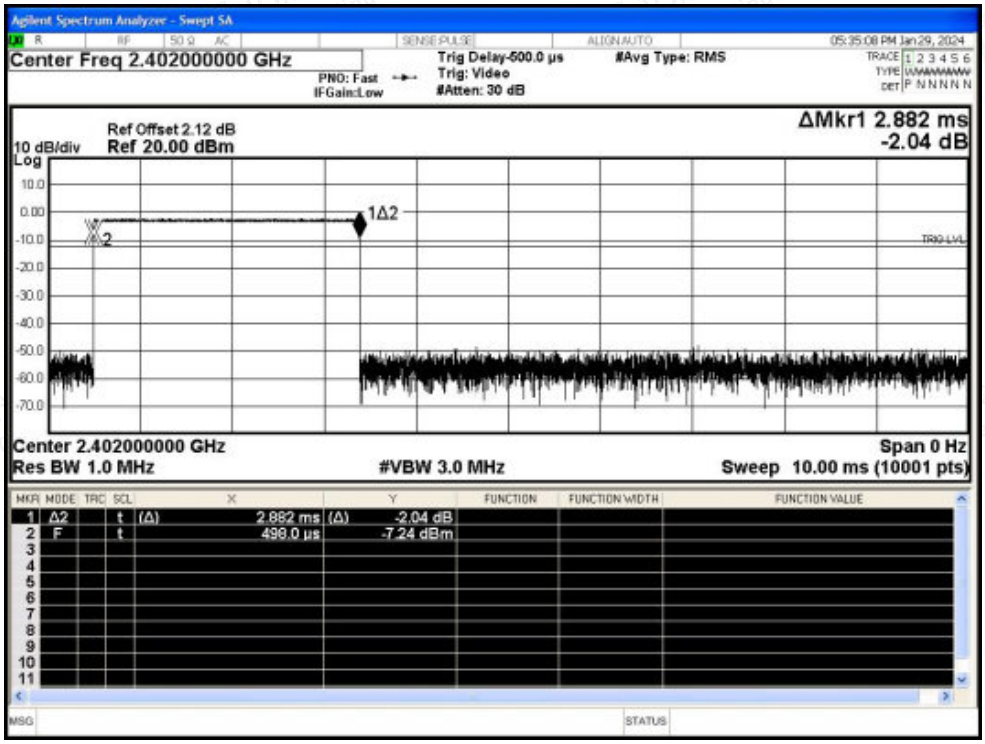


A.4 Dwell Time

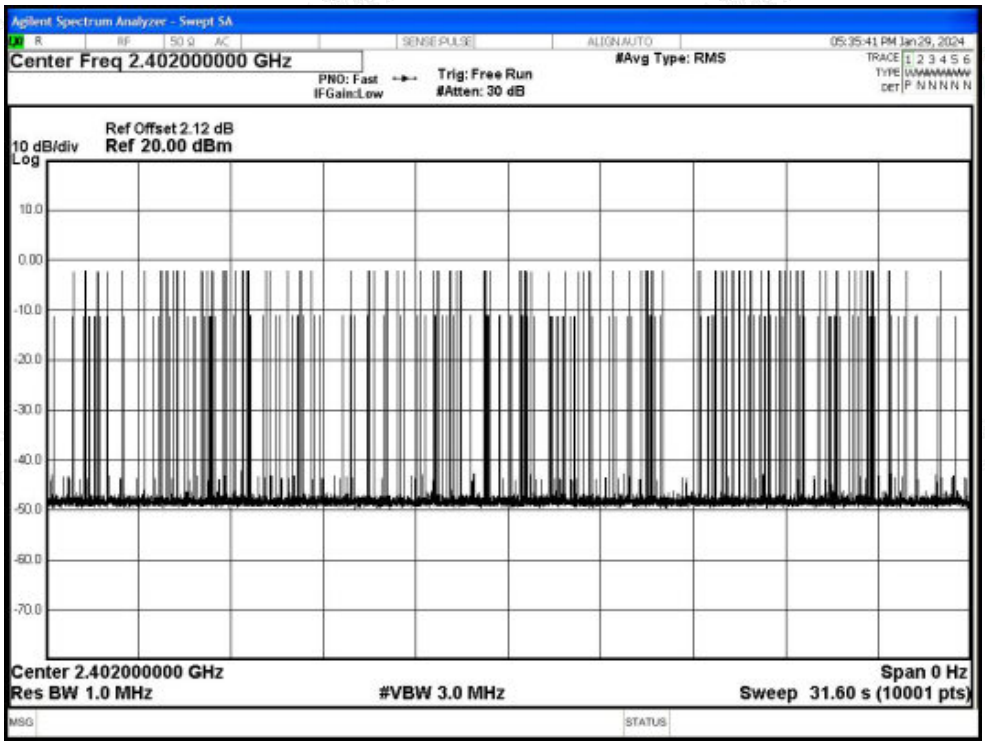
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	288.2	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	305.492	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	294.474	102	31600	400	Pass

Test Graphs

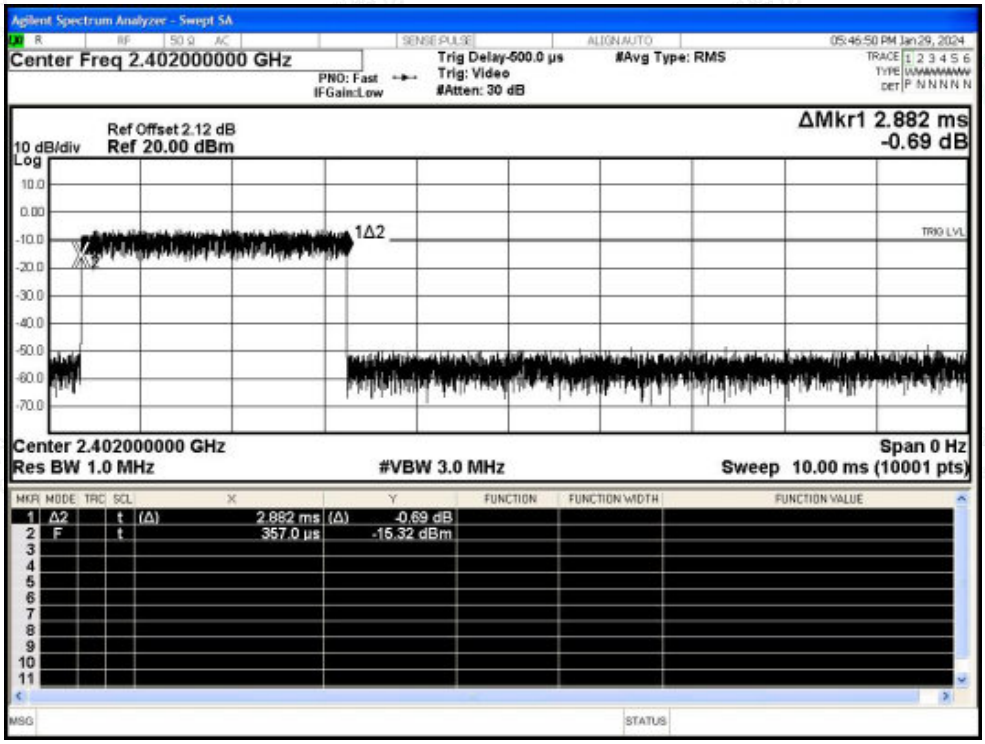
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



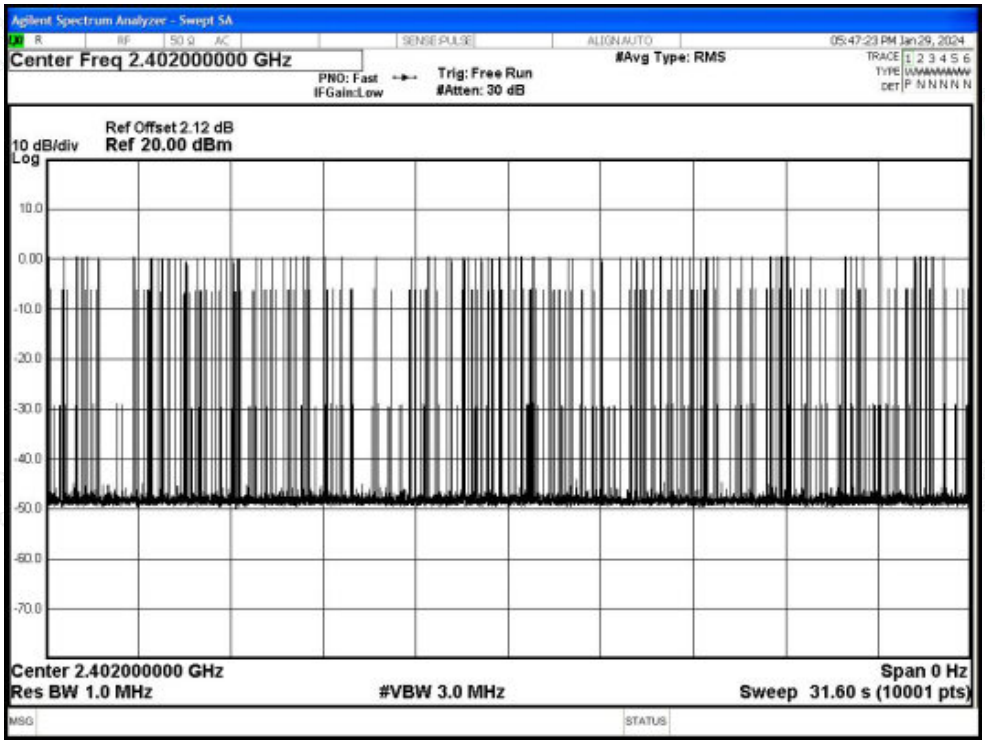
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



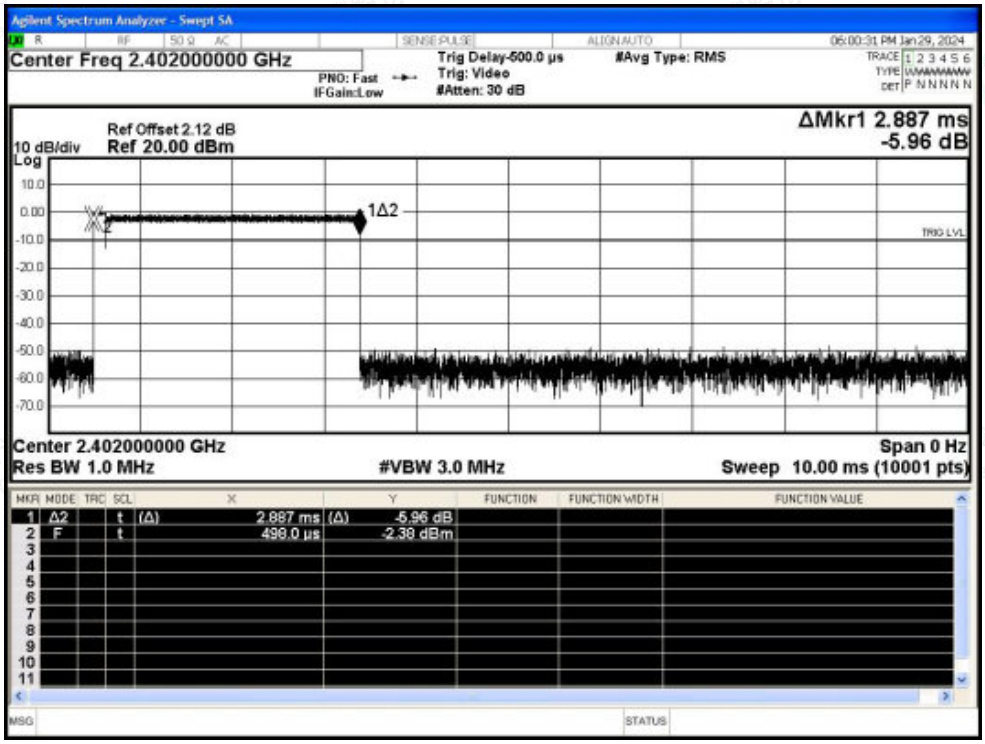
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



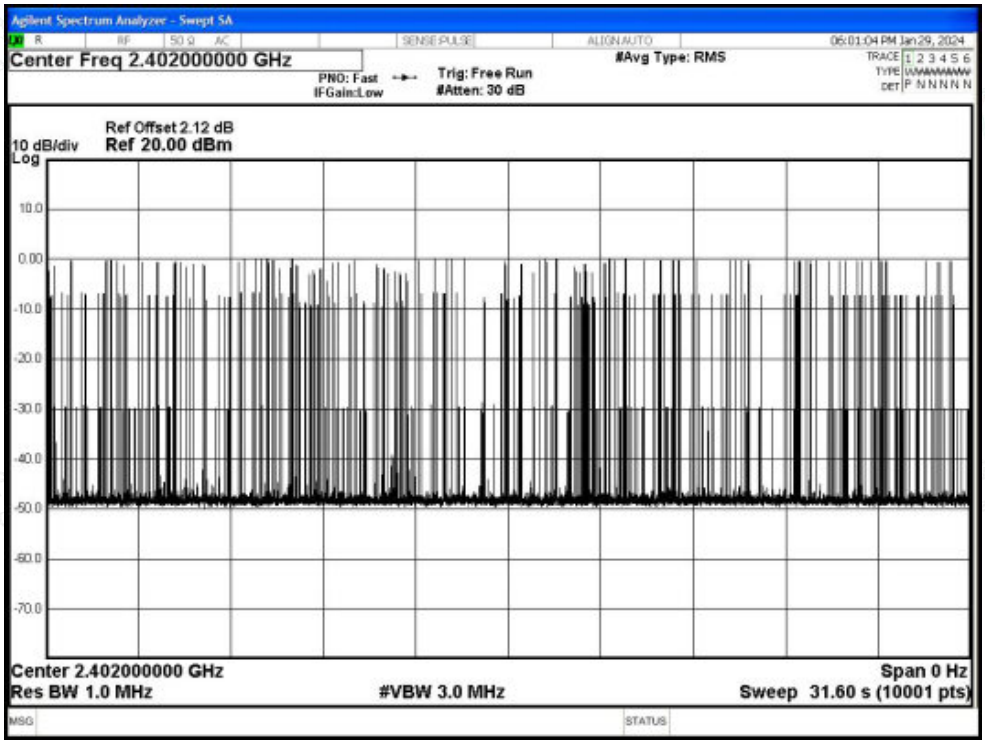
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

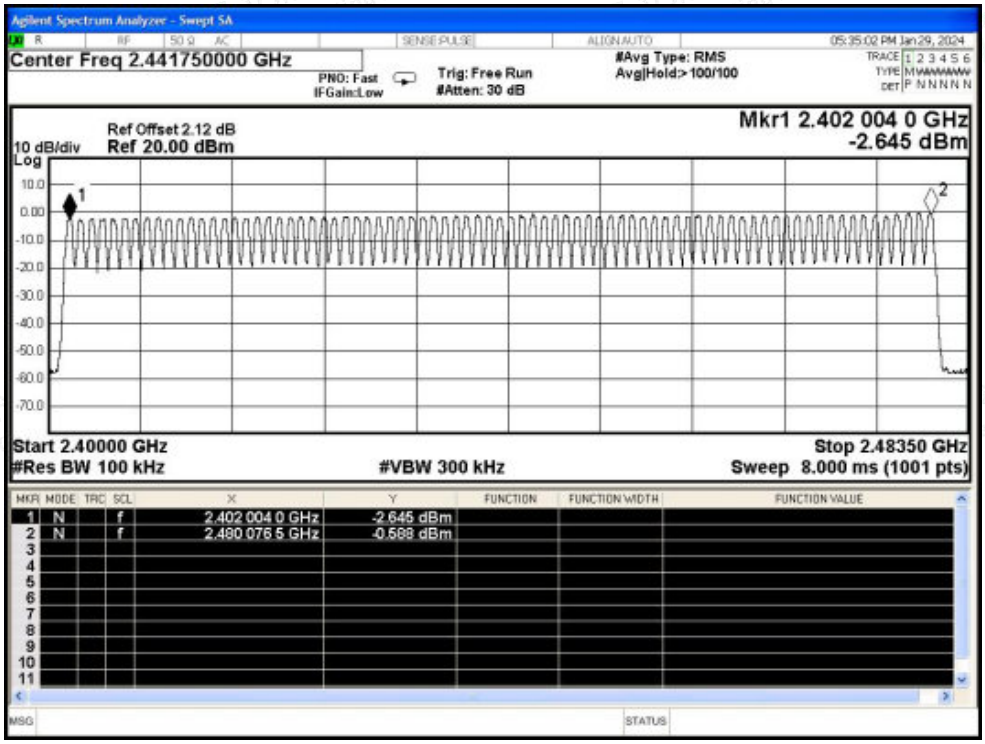


A.5 Number of Hopping Channel

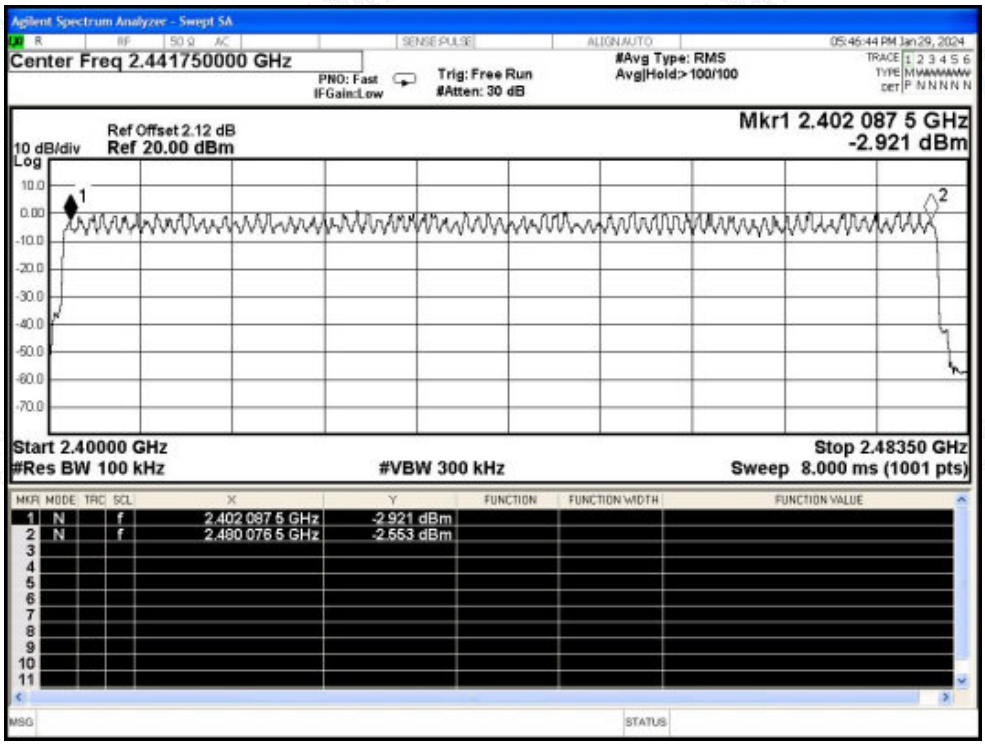
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

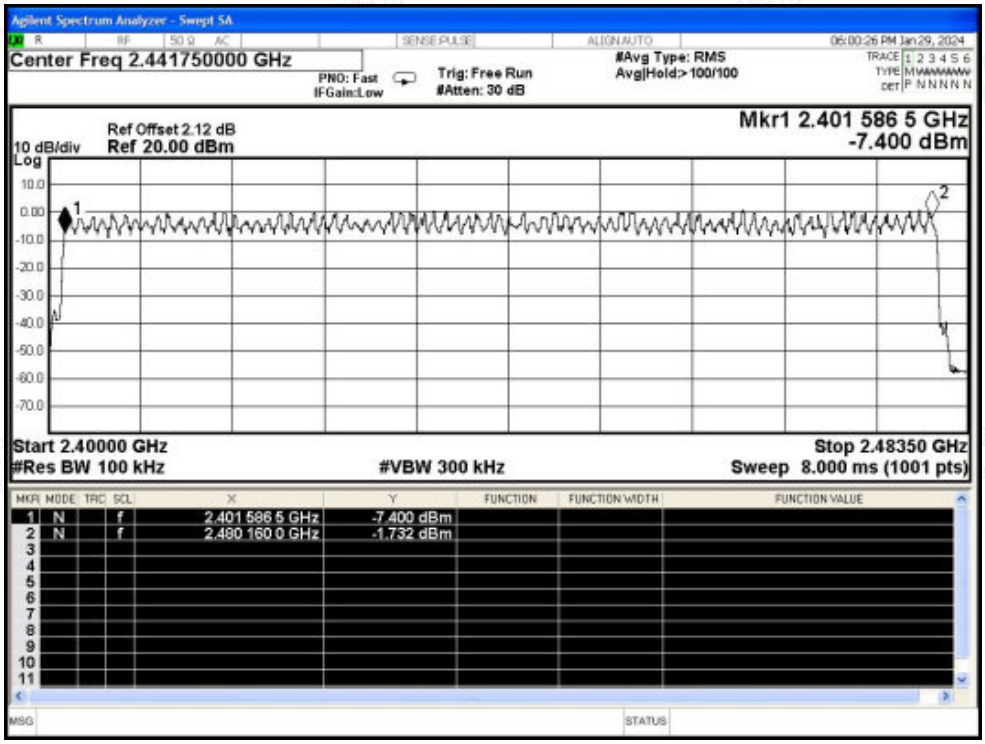
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

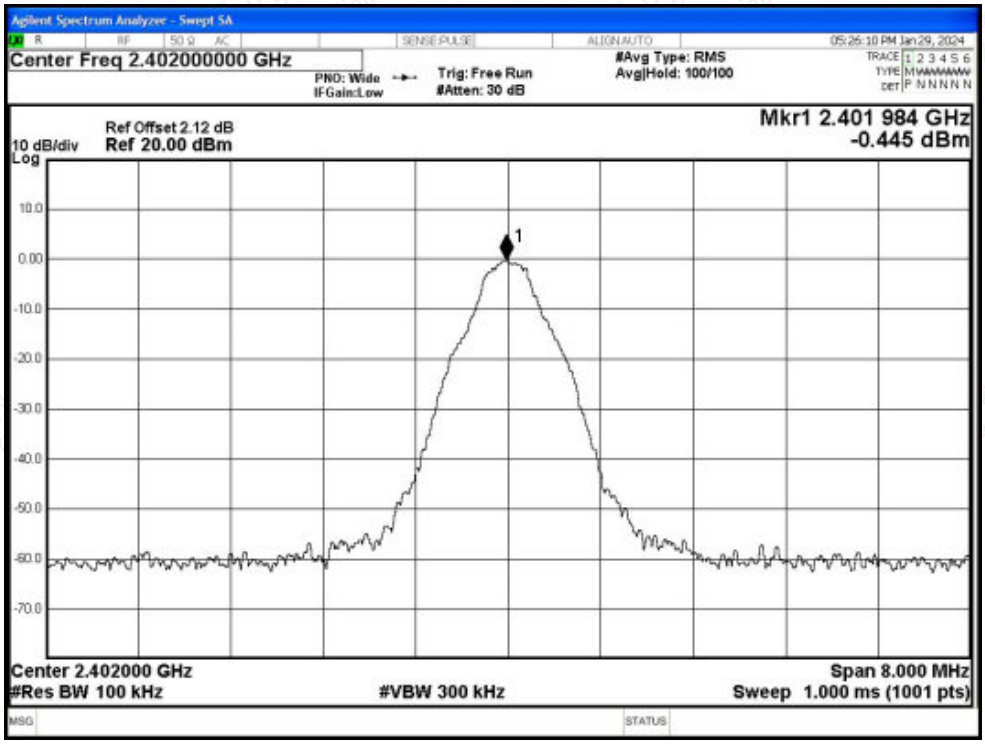


A.6 Band Edge

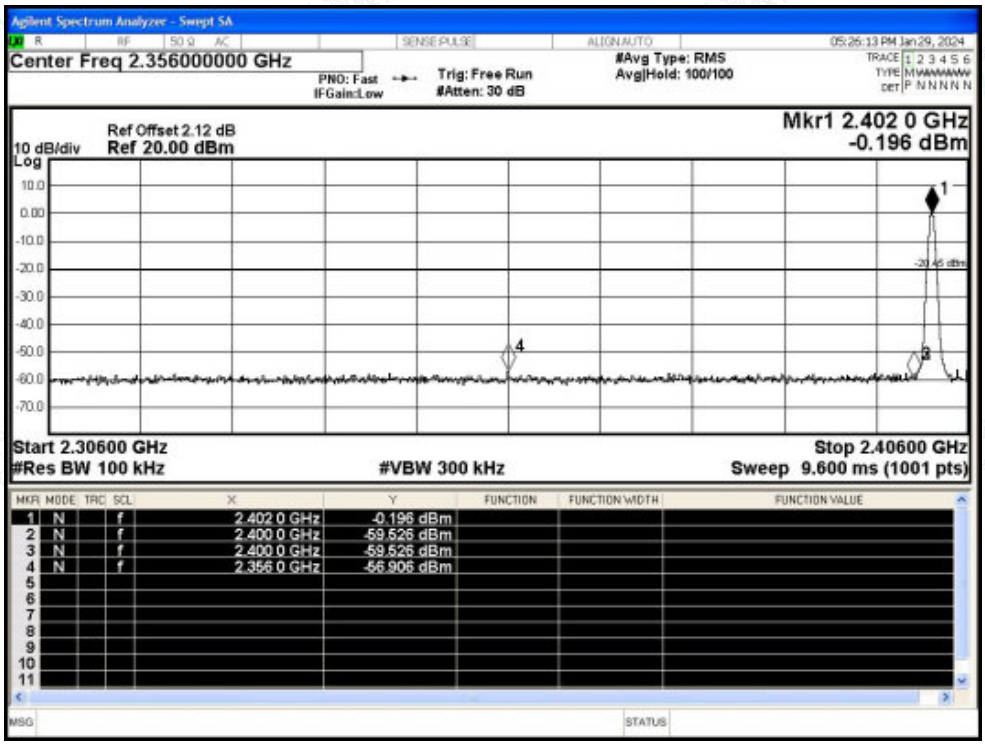
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.46	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.94	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.7	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.96	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.22	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.76	-20	Pass

Test Graphs

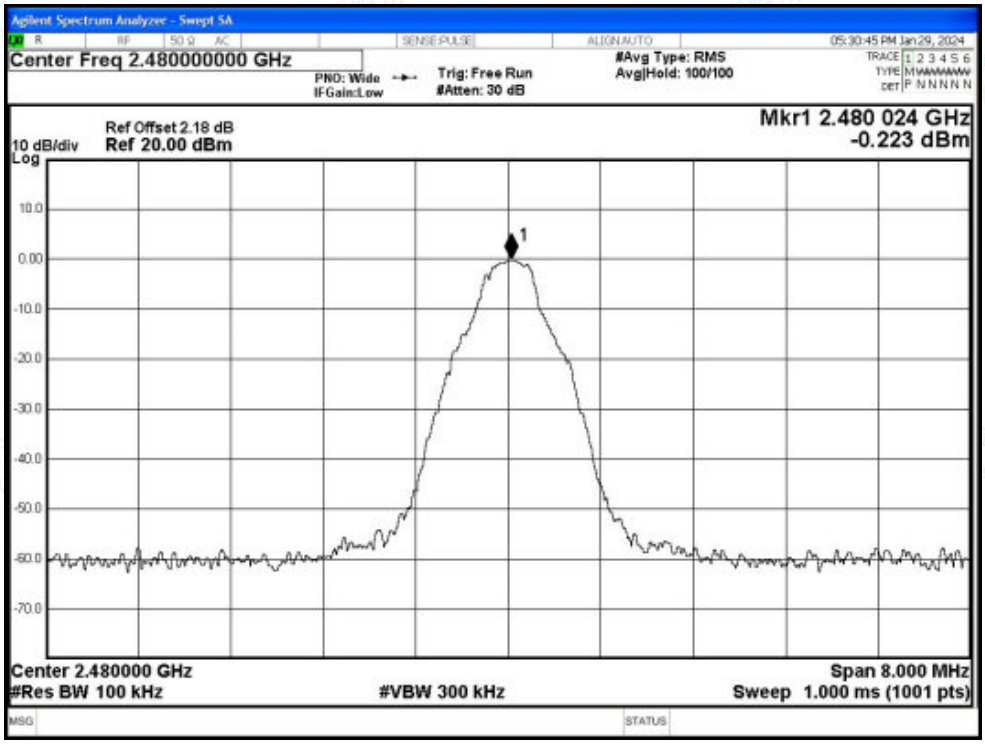
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



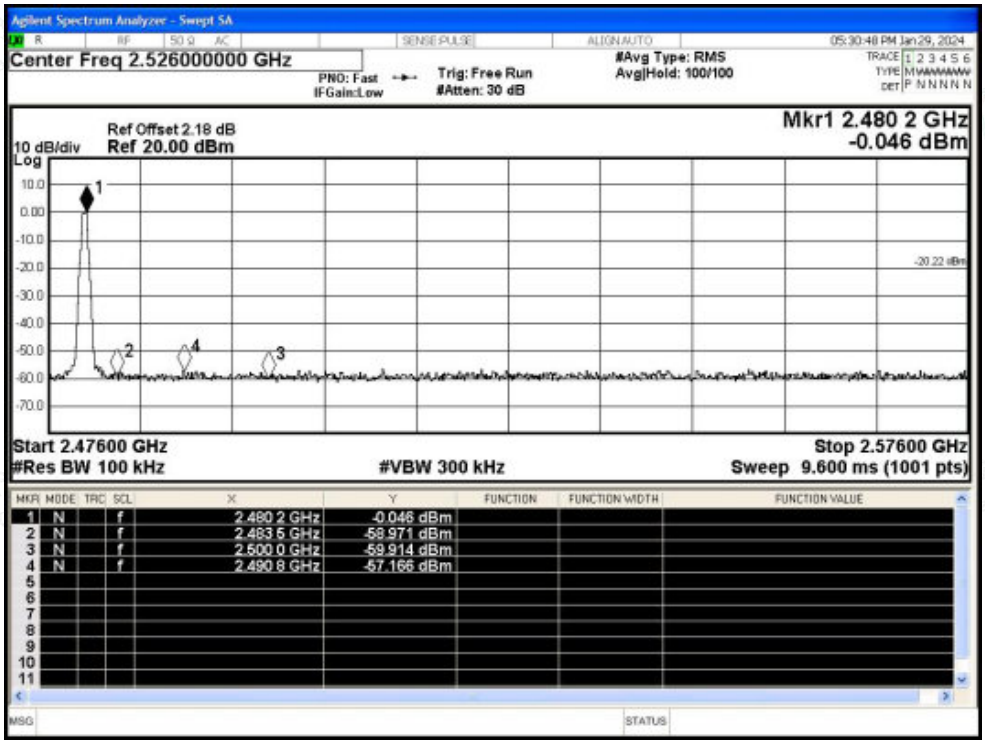
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



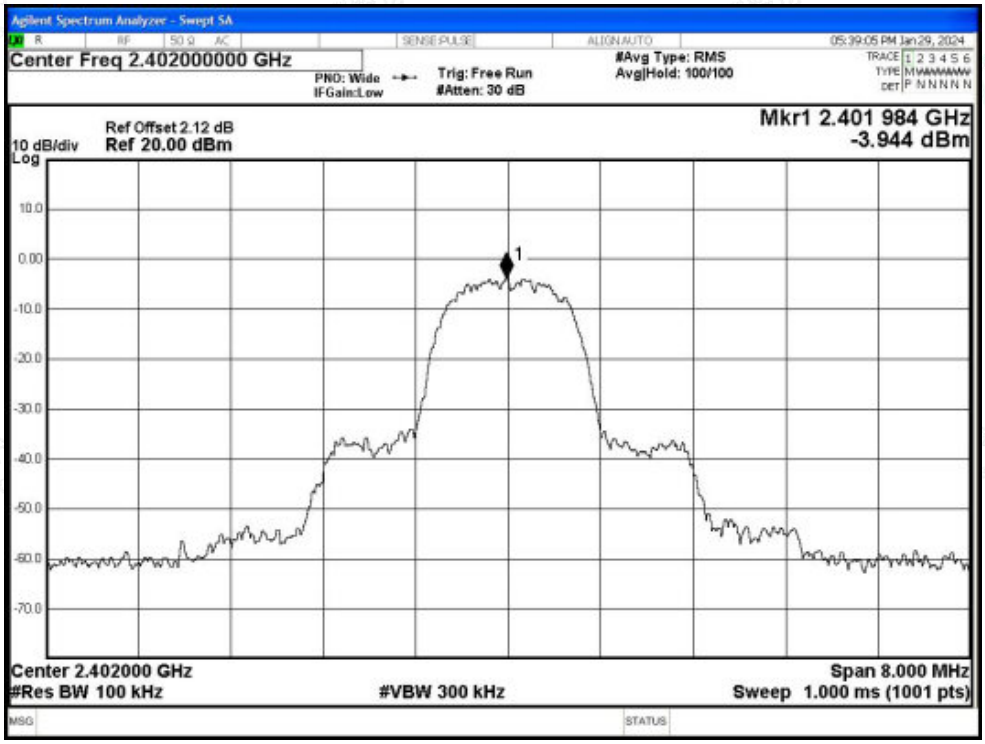
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



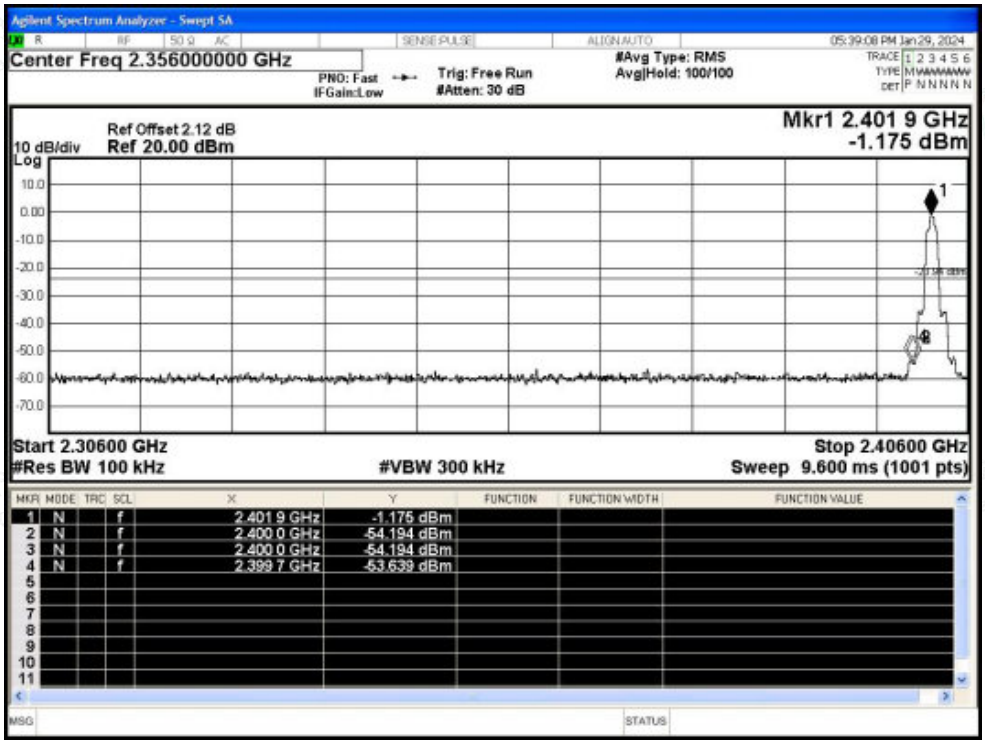
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



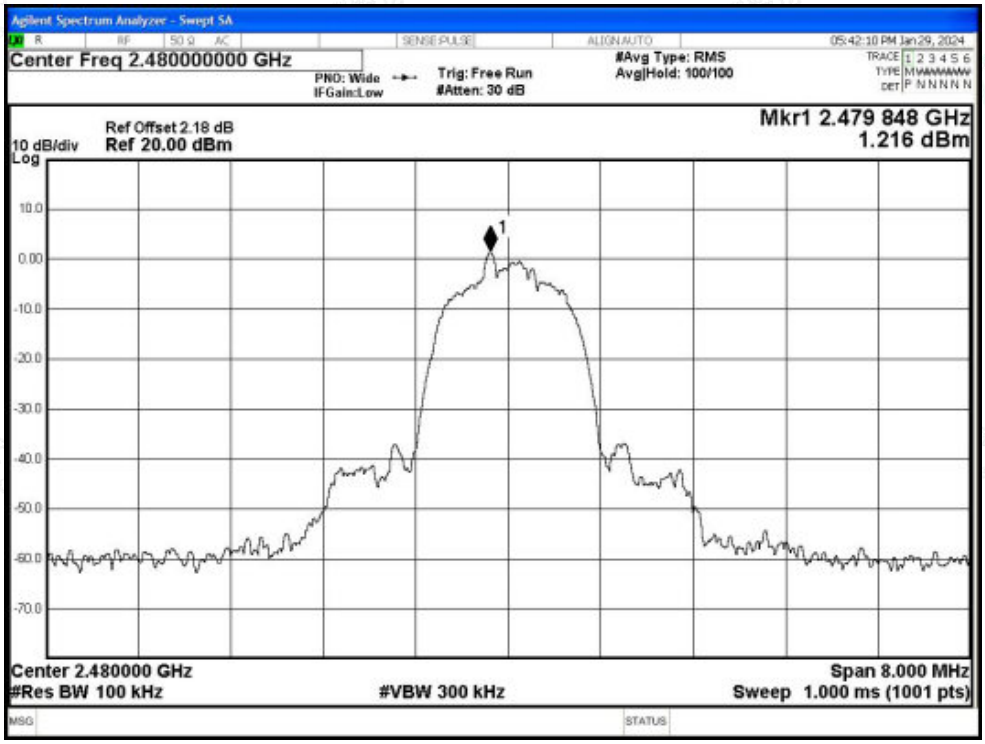
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



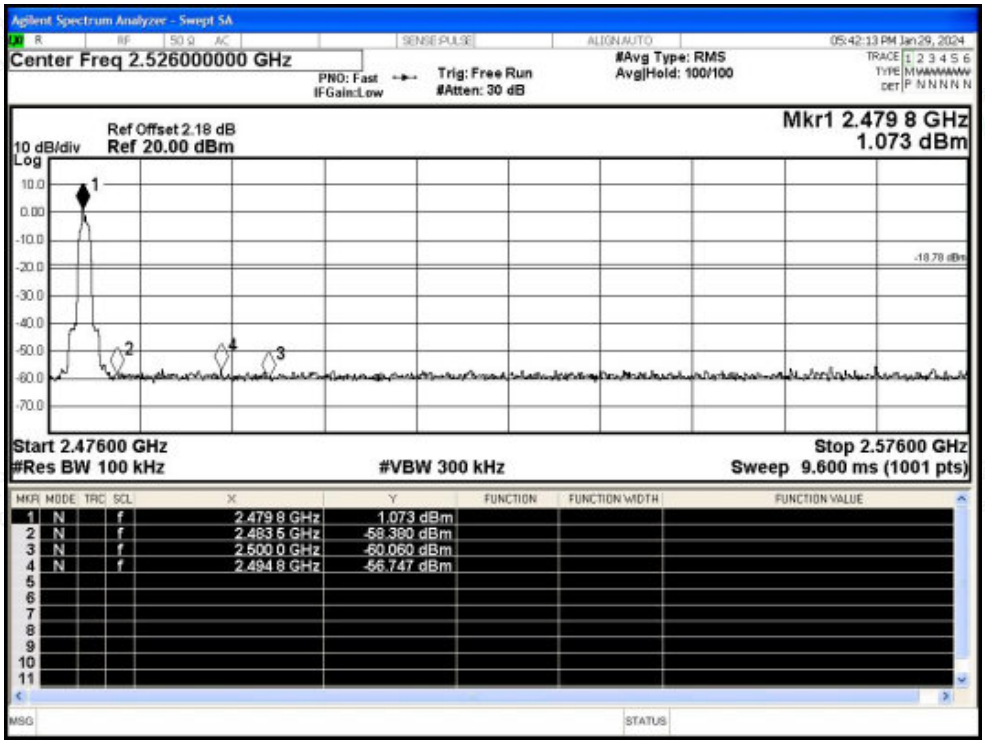
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



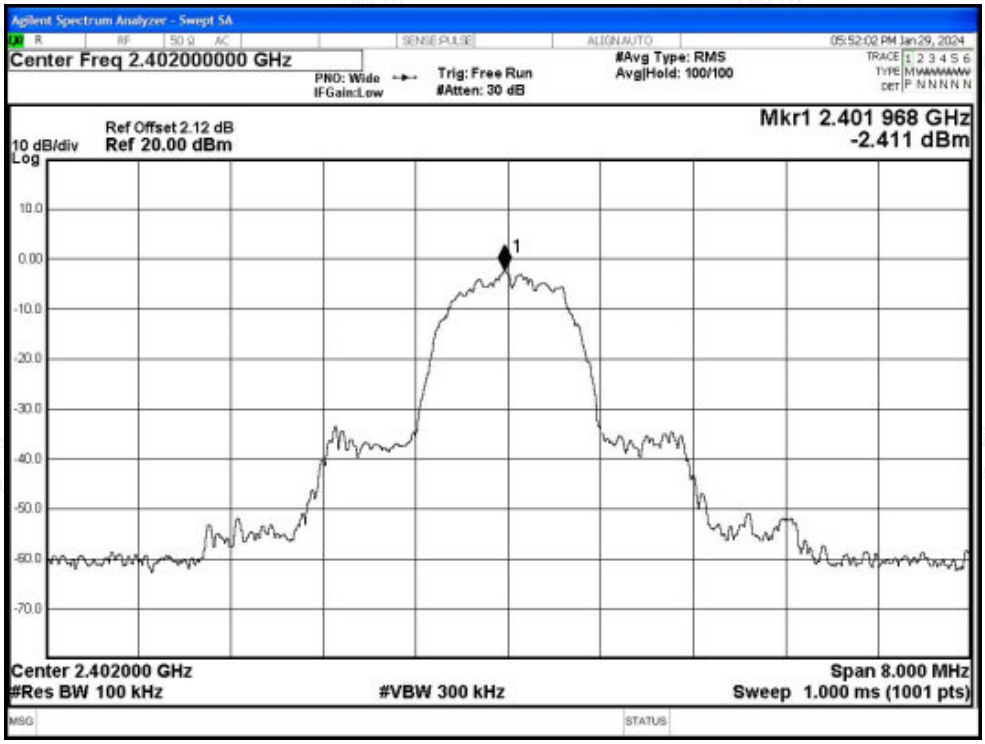
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



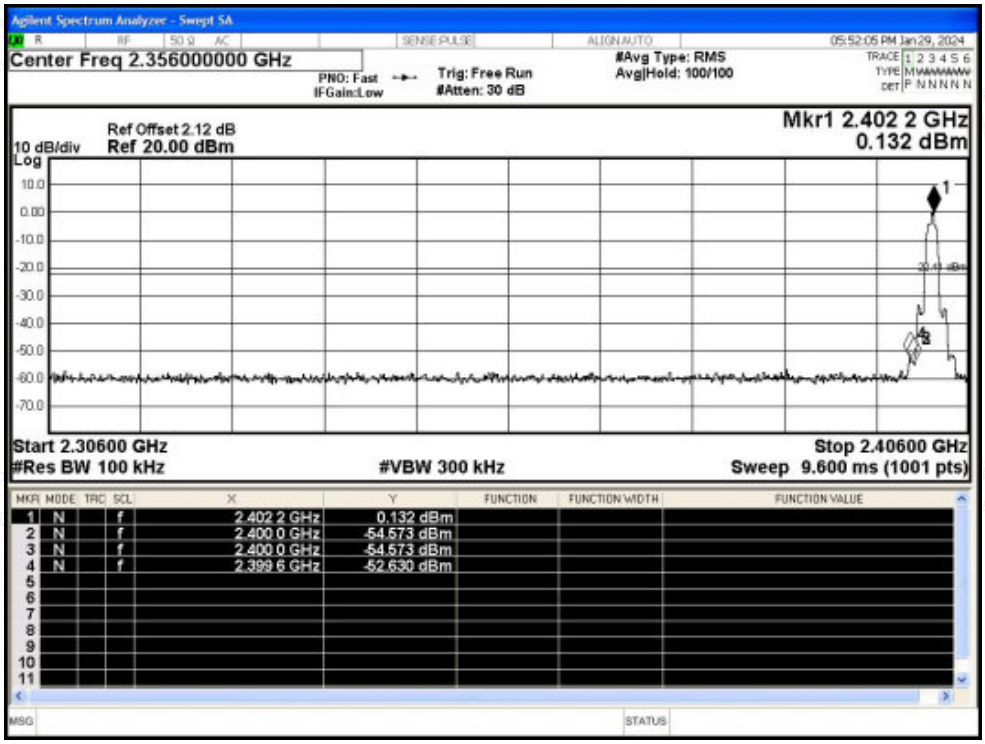
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



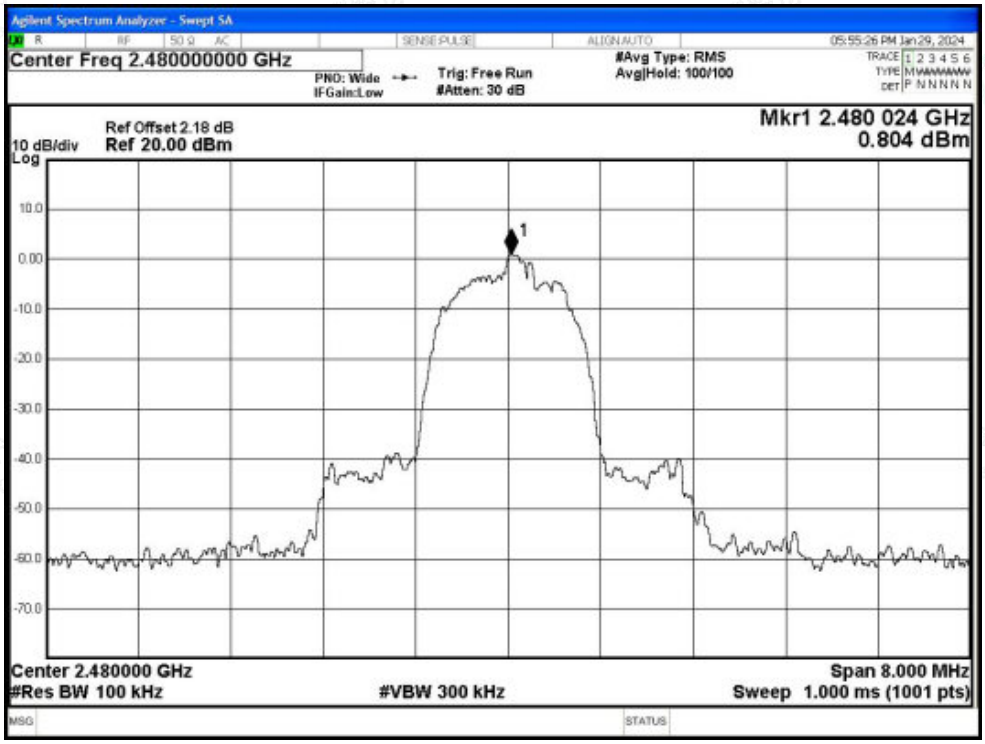
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



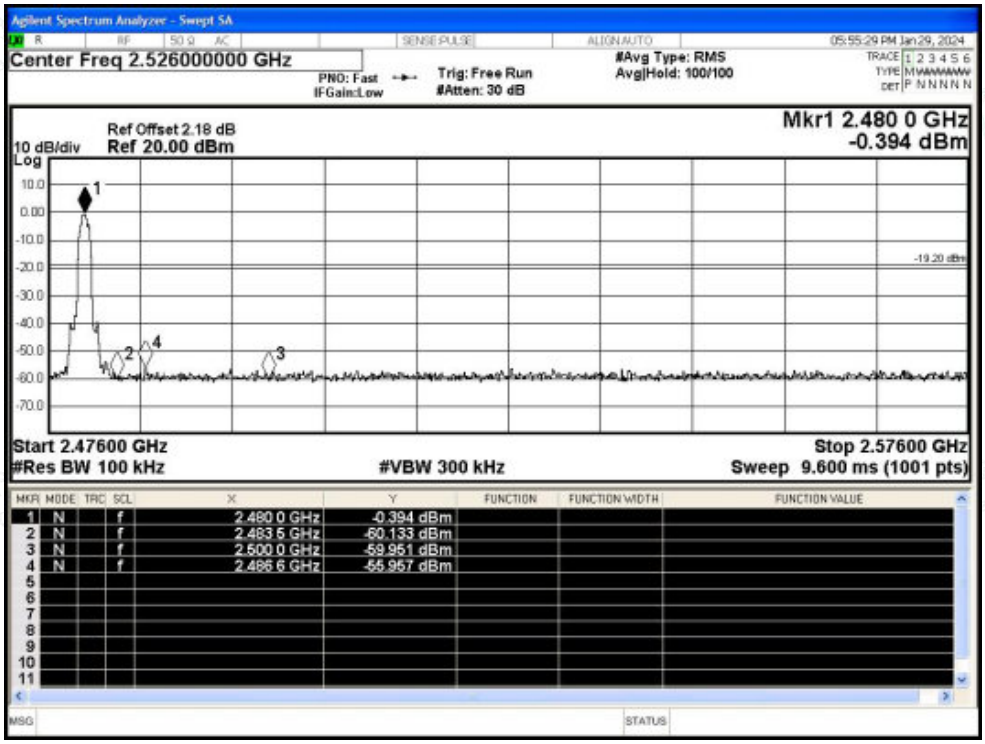
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

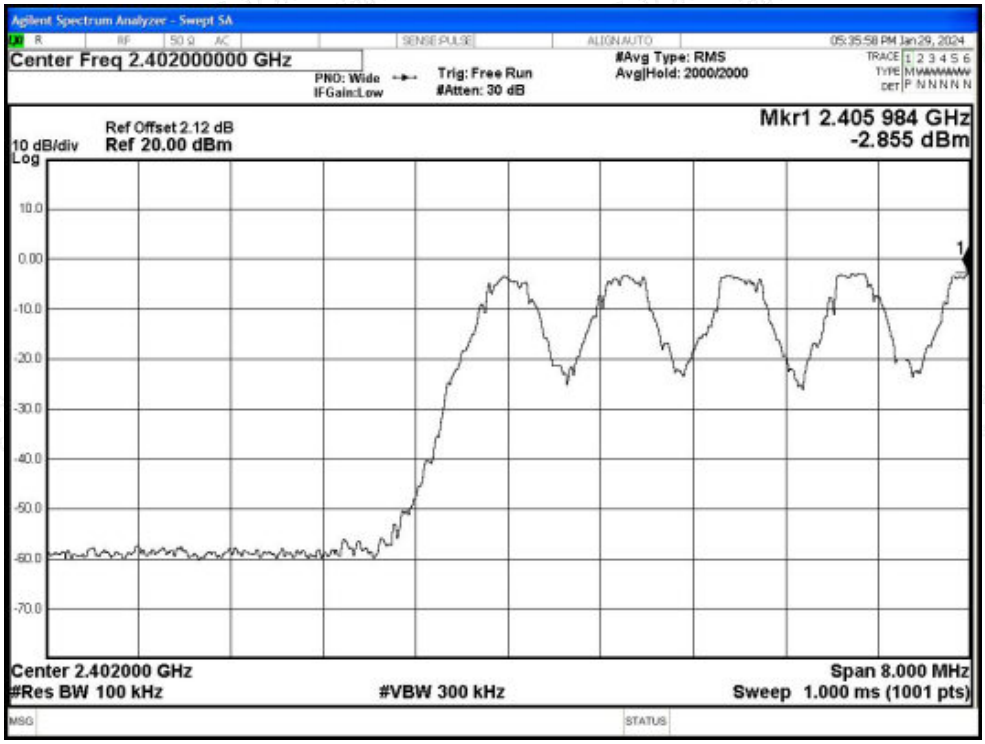


(Hopping)

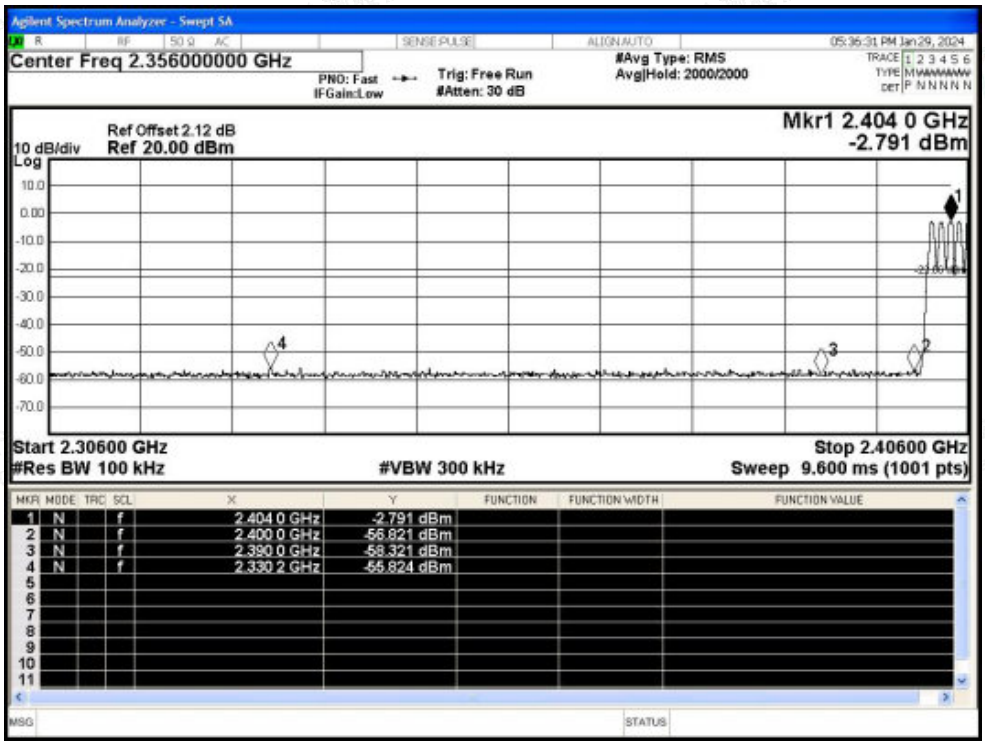
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.97	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.45	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.85	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.38	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.48	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.15	-20	Pass

Test Graphs

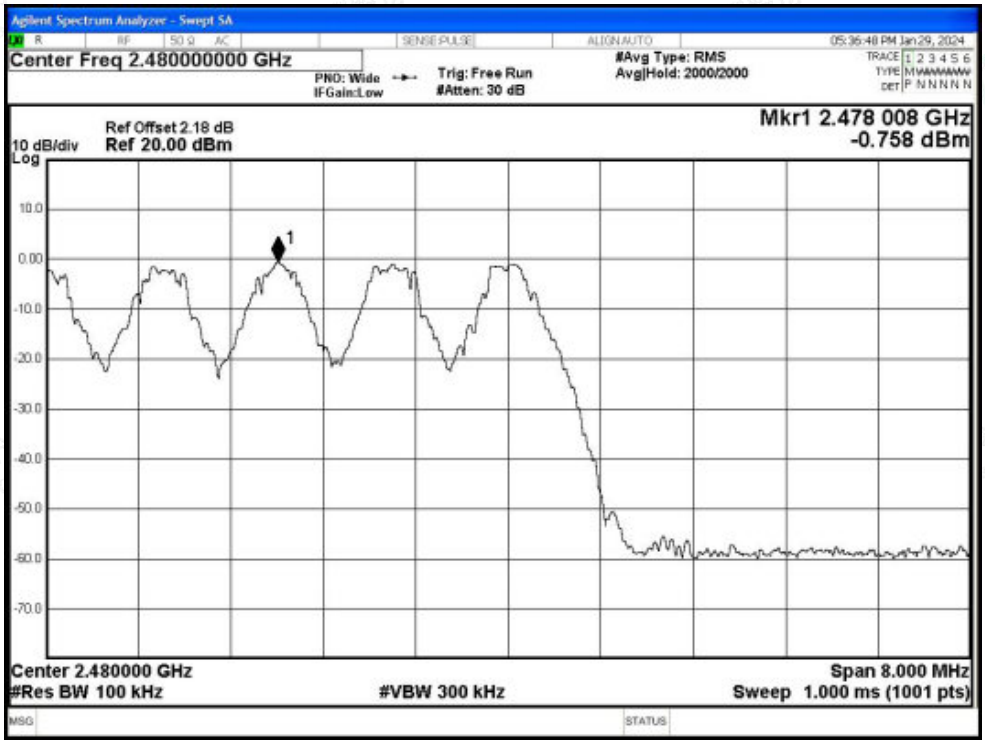
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



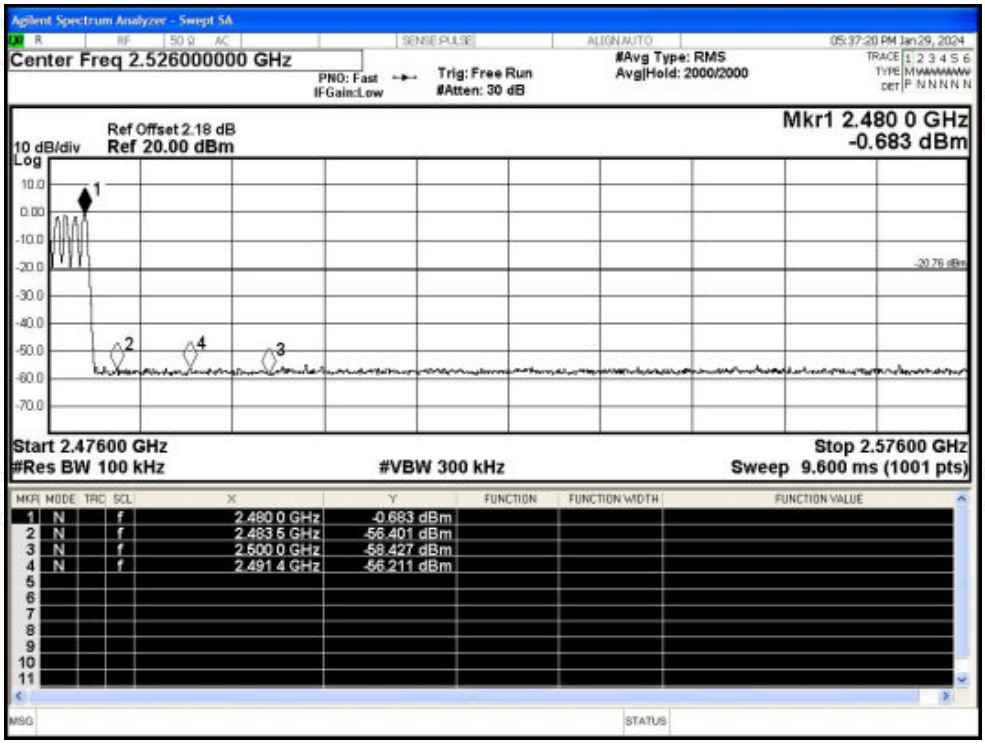
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



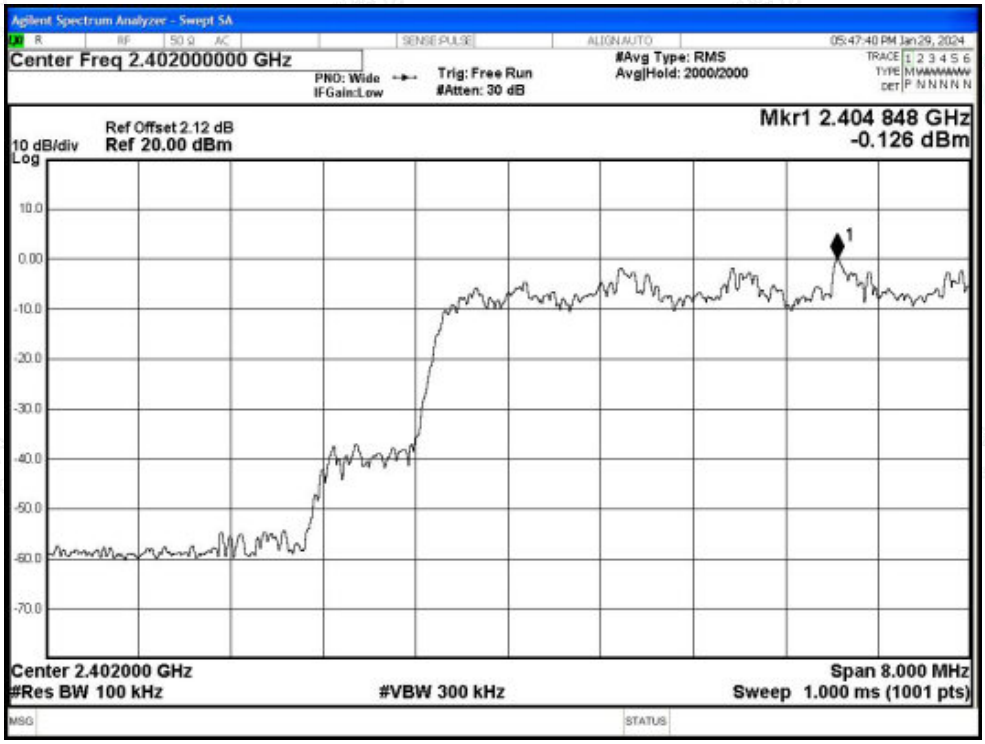
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



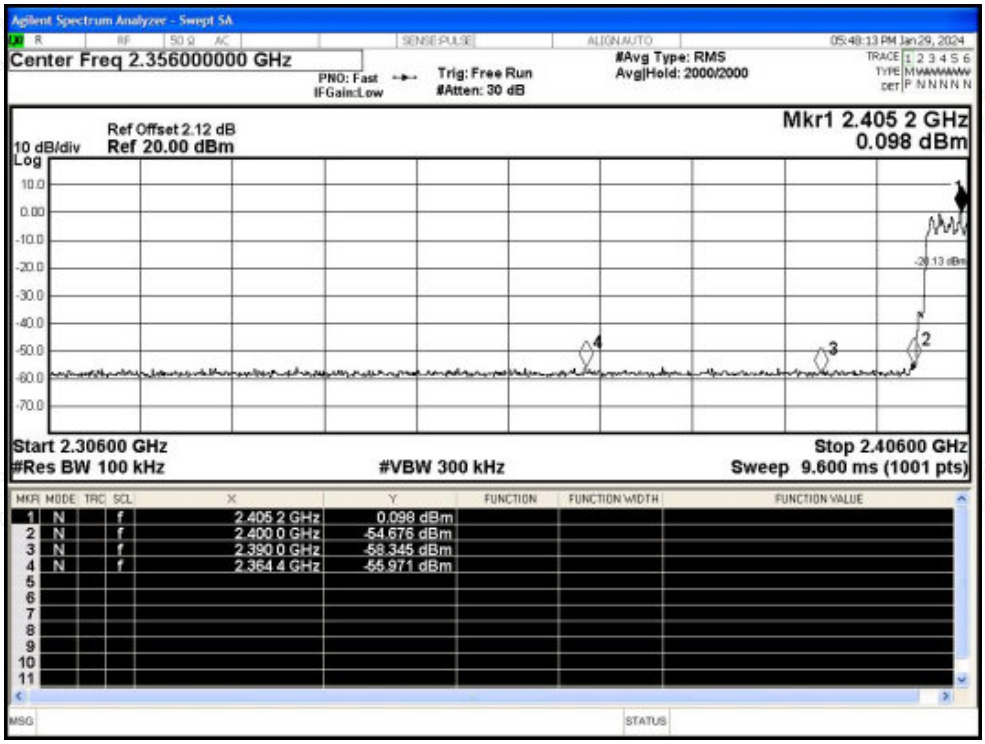
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



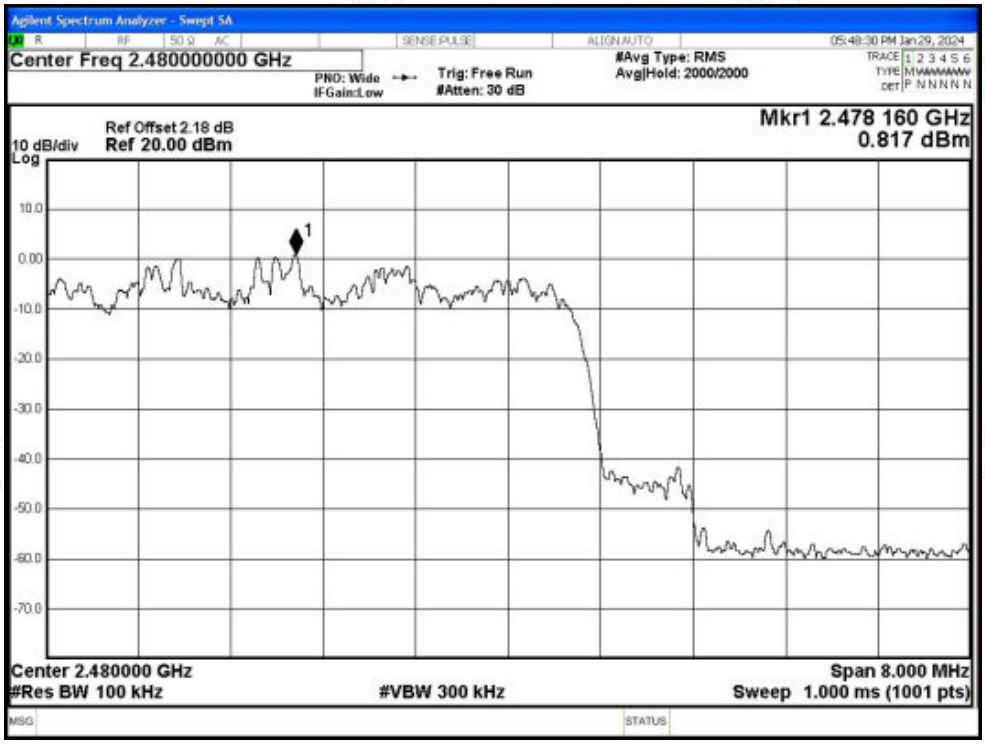
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



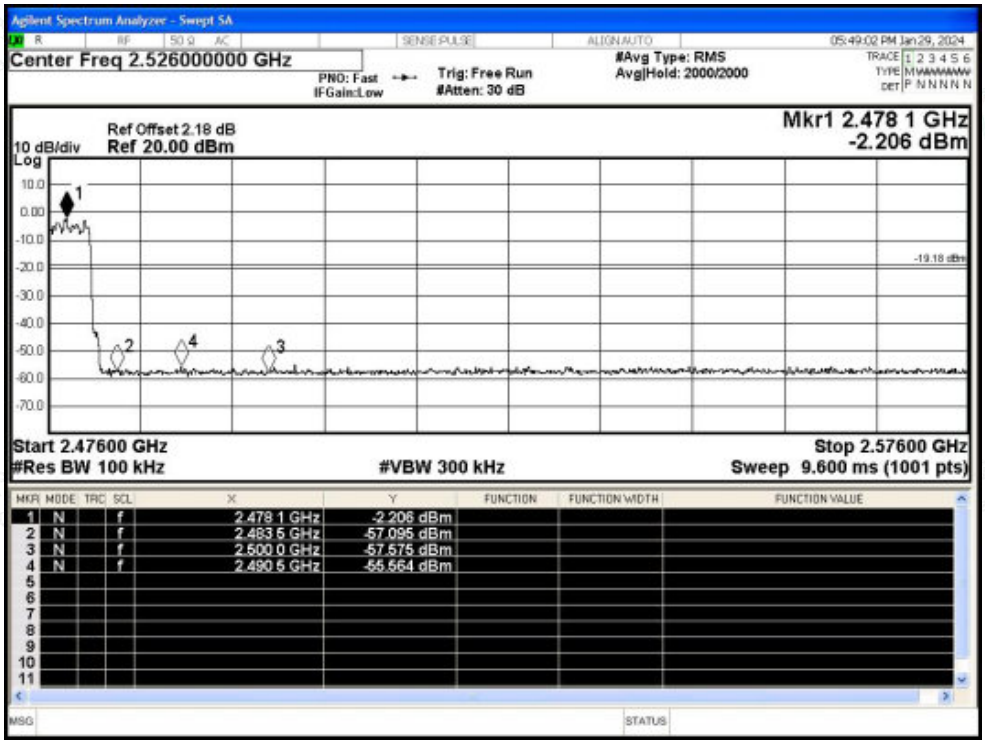
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



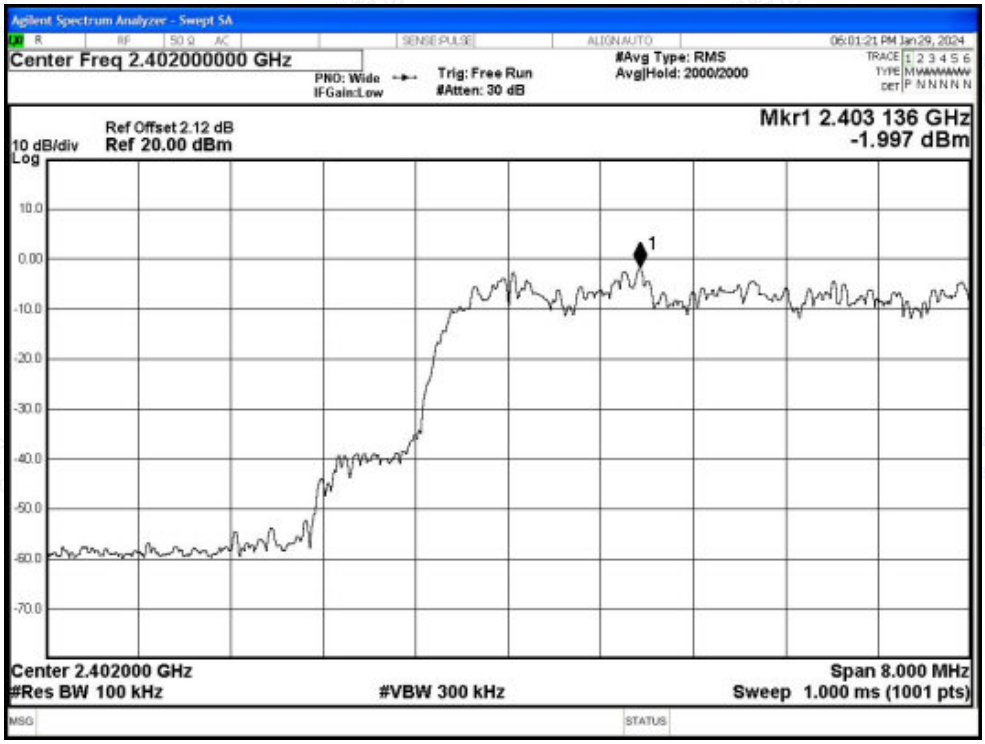
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



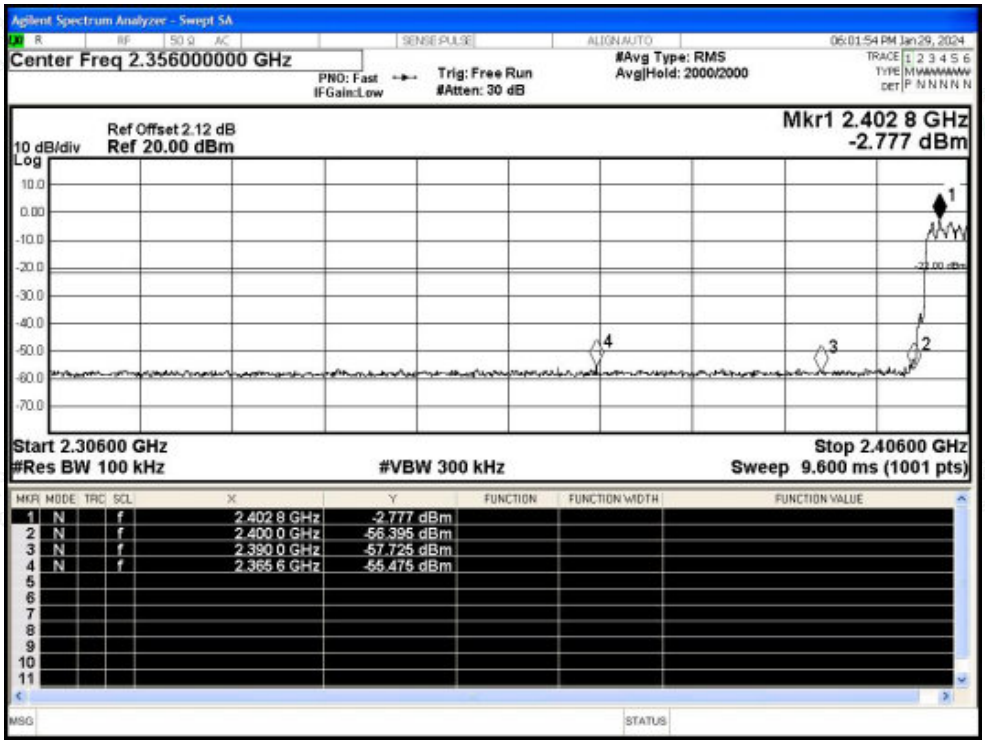
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



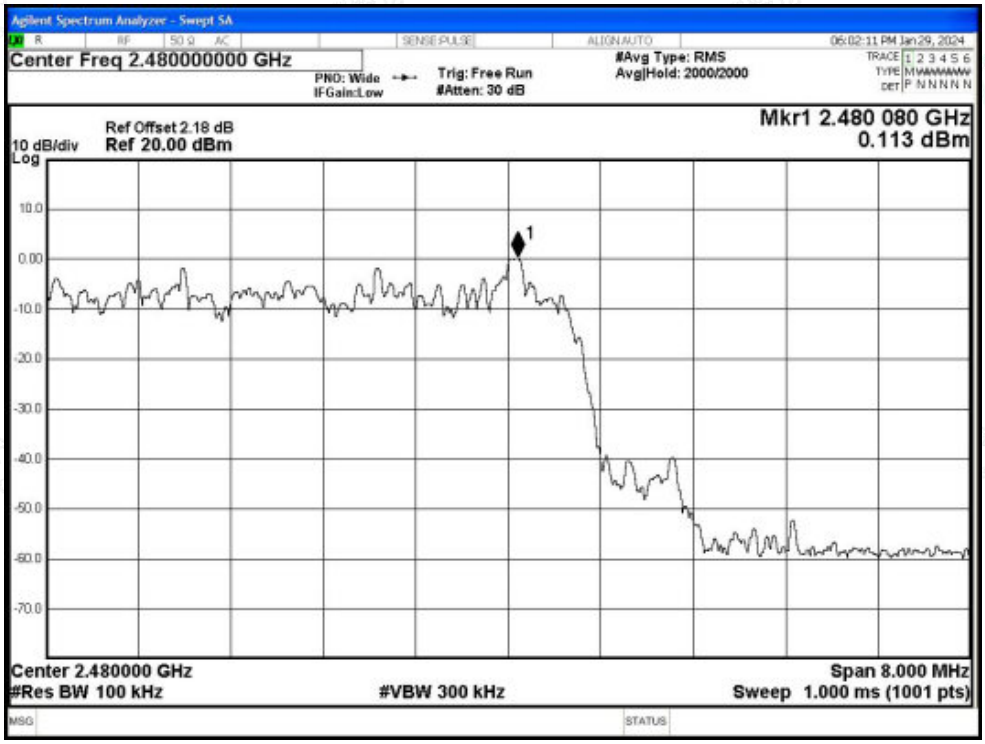
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



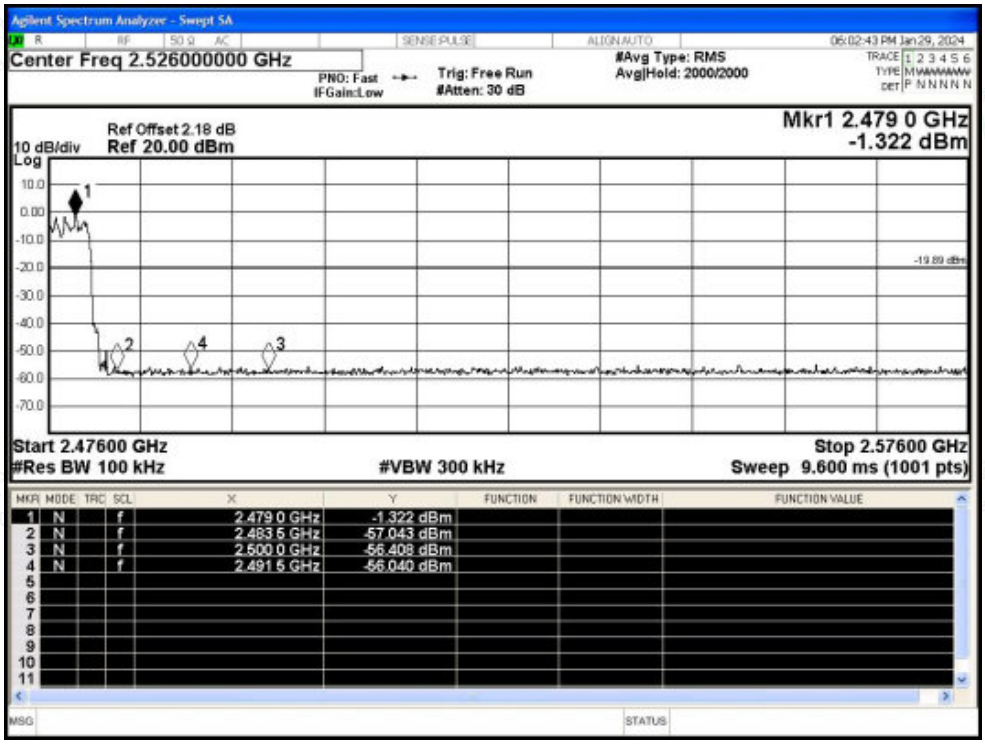
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

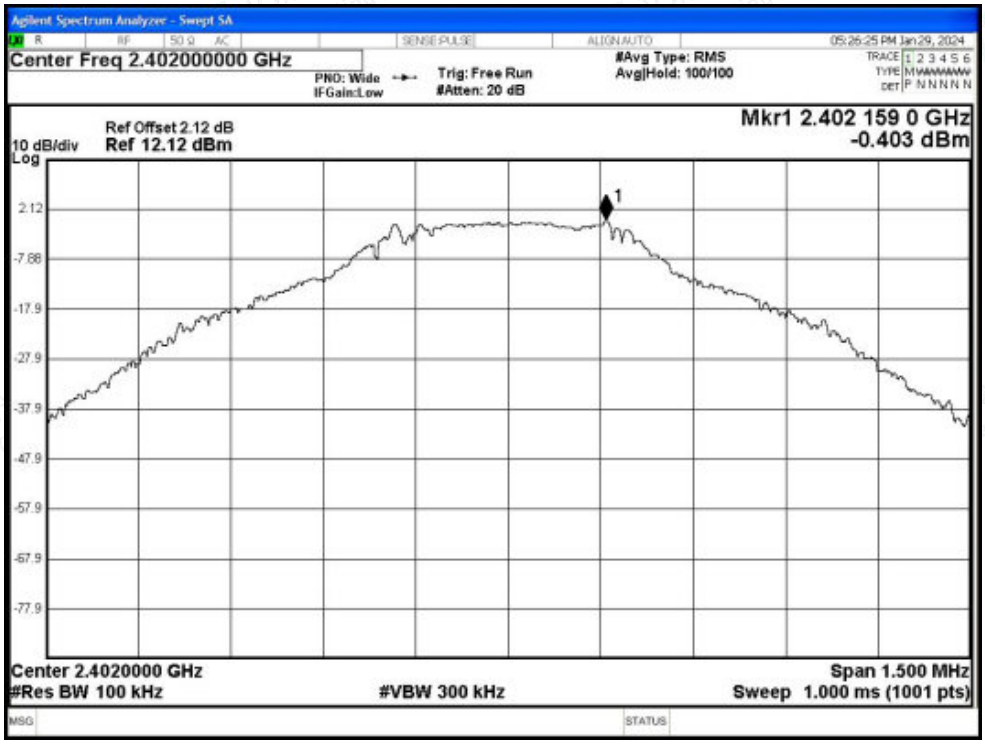


A.7 Conducted RF Spurious Emission

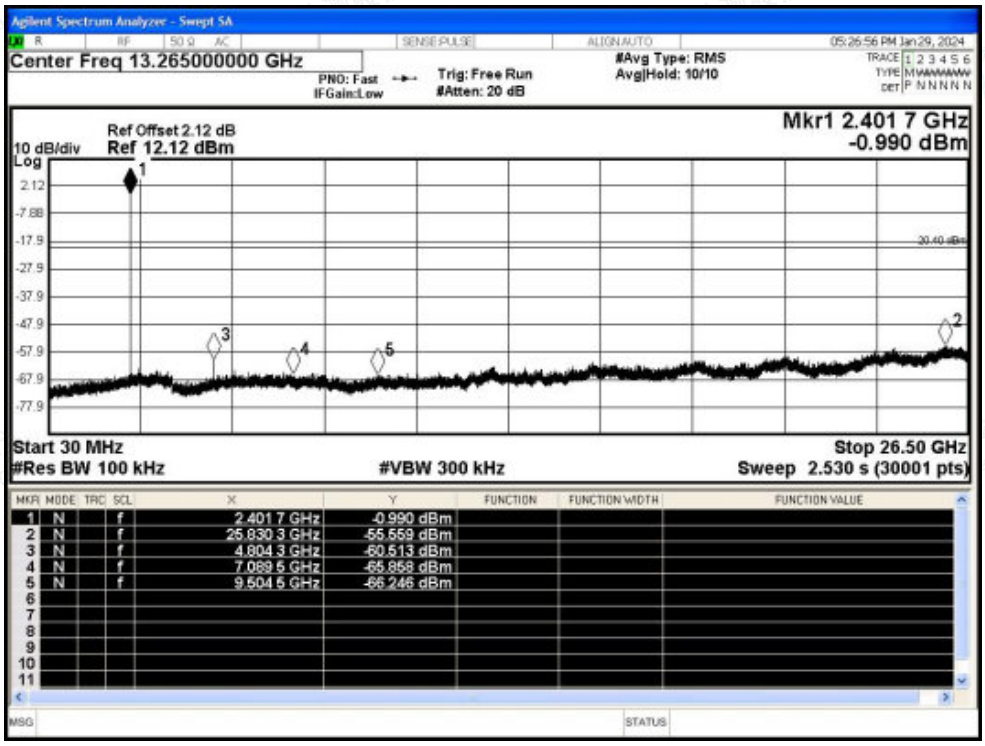
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.16	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.76	-20	Pass
NVNT	1-DH5	2480	Ant1	-55	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.83	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.59	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.77	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.36	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.87	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.02	-20	Pass

Test Graphs

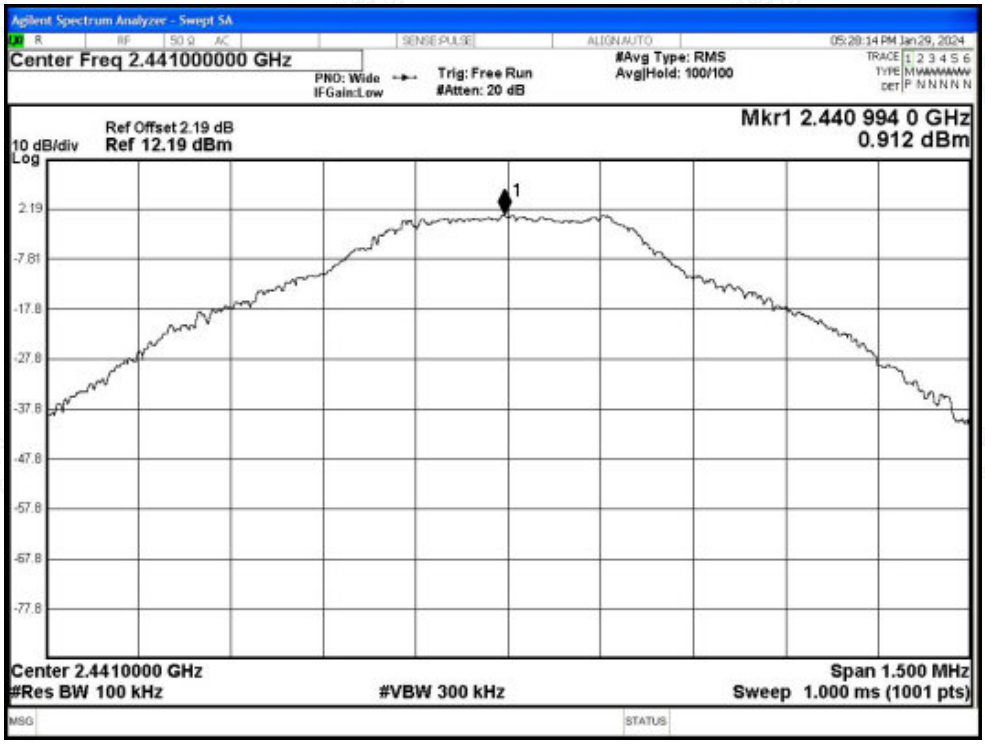
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



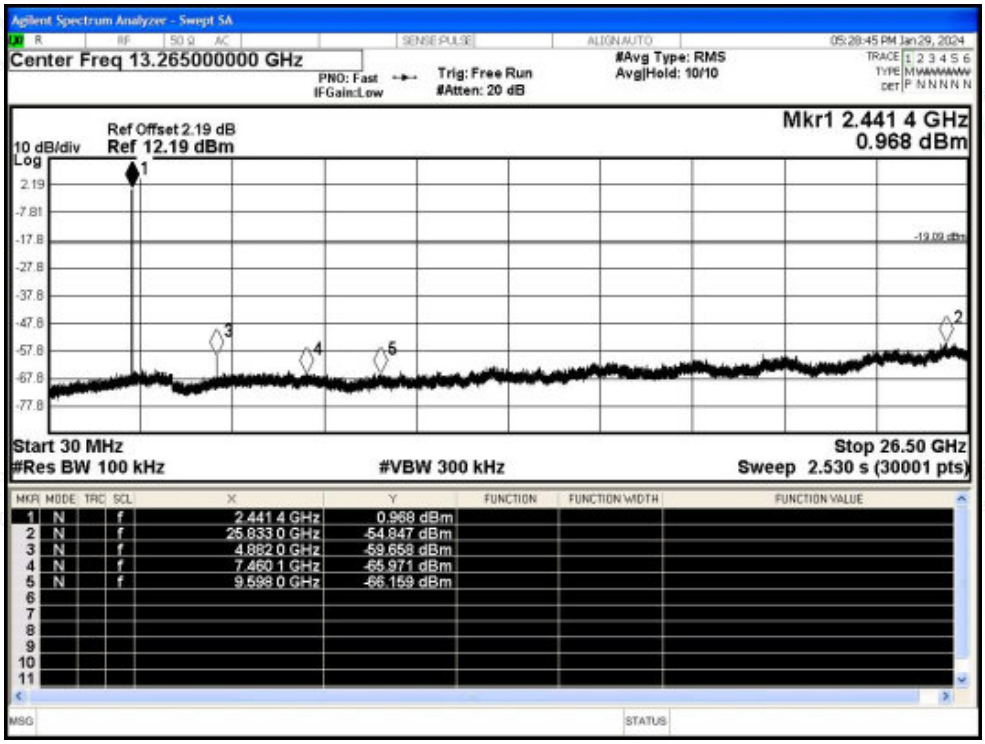
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



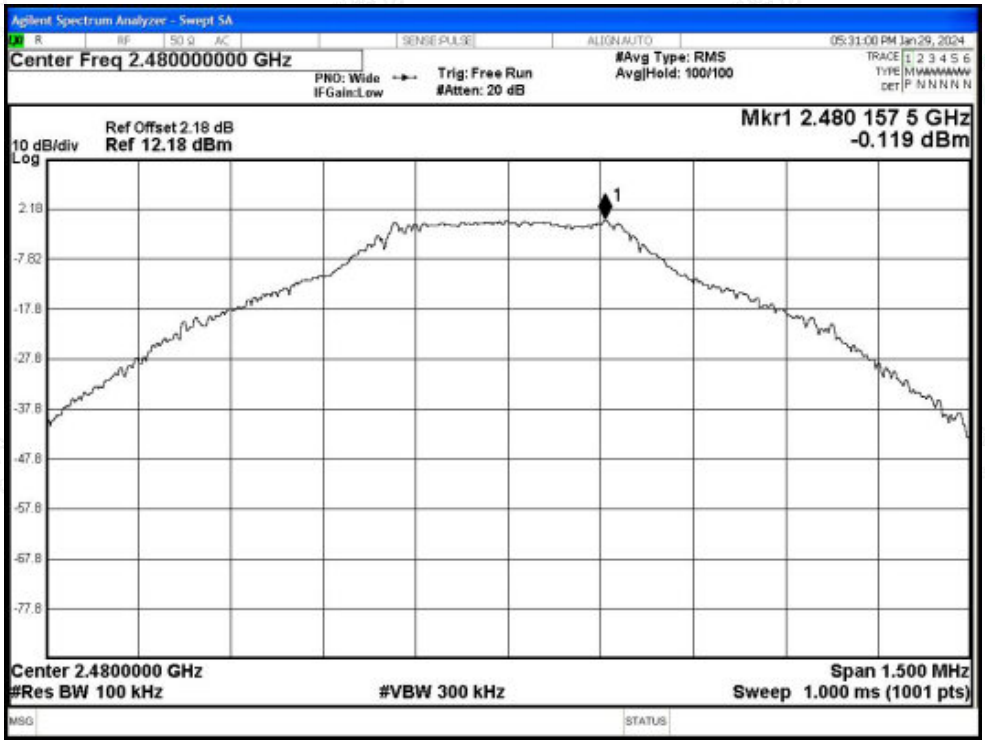
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



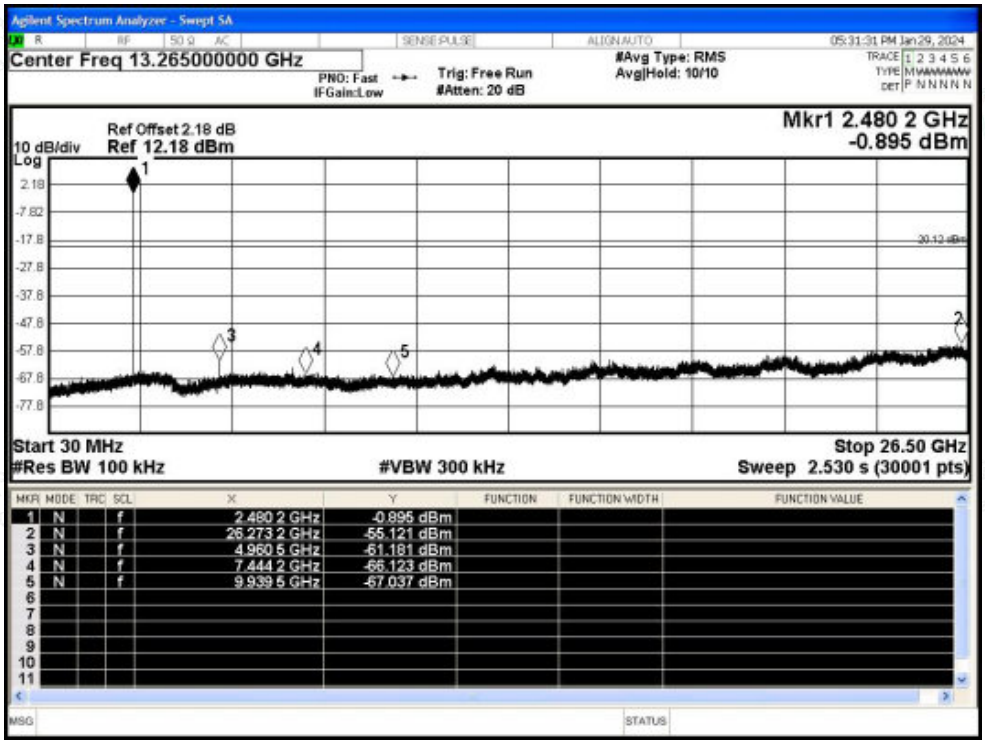
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



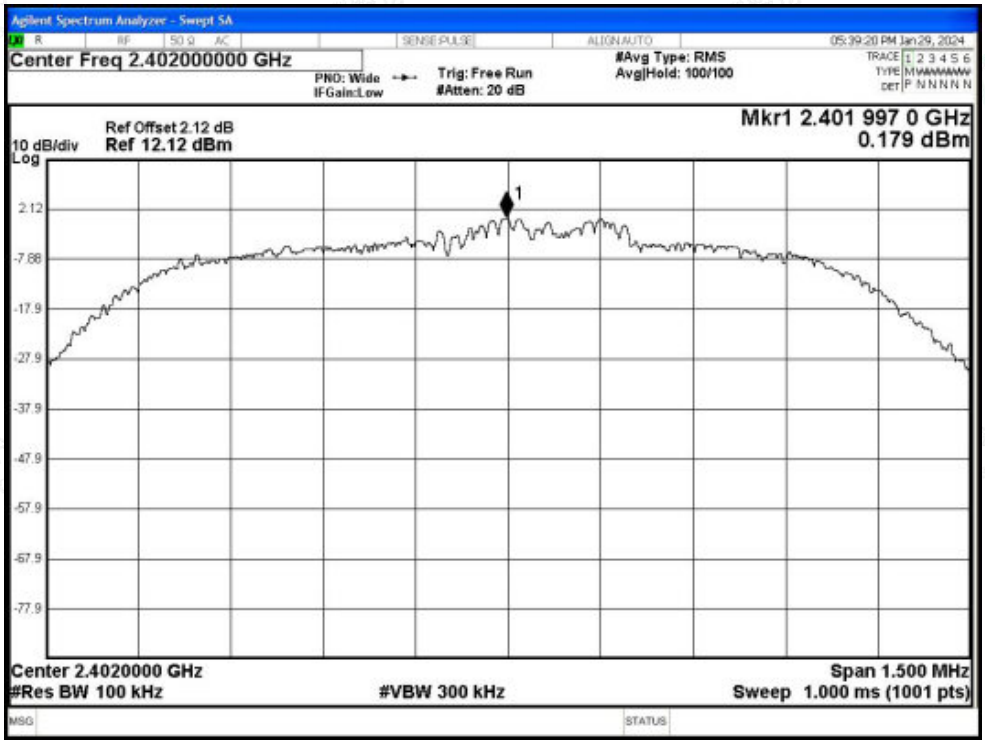
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



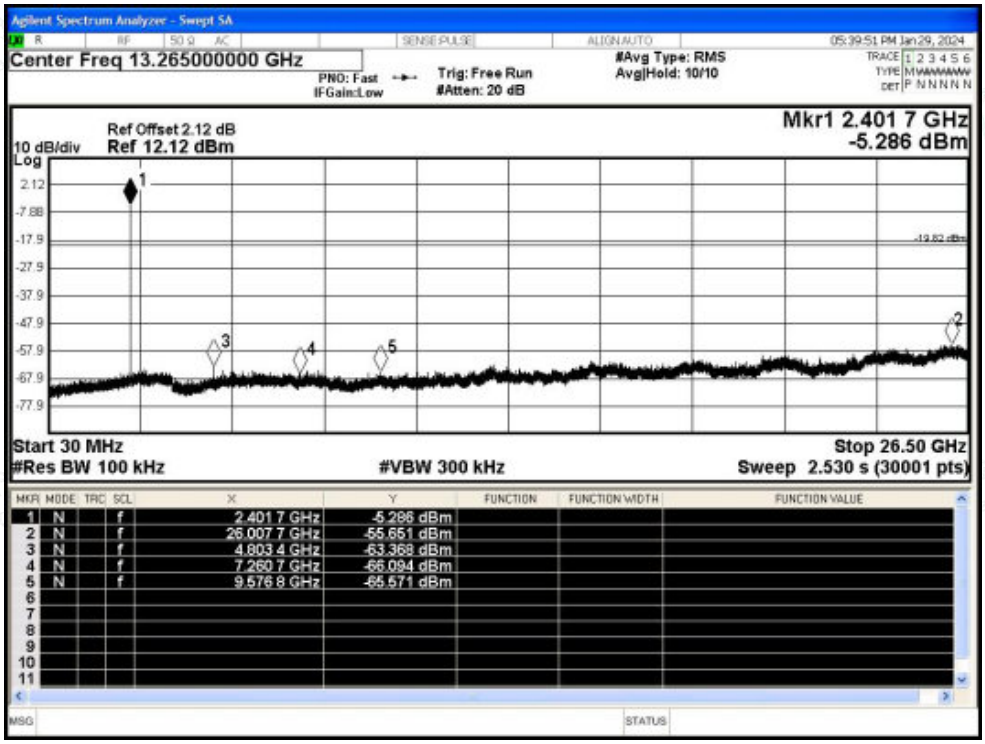
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



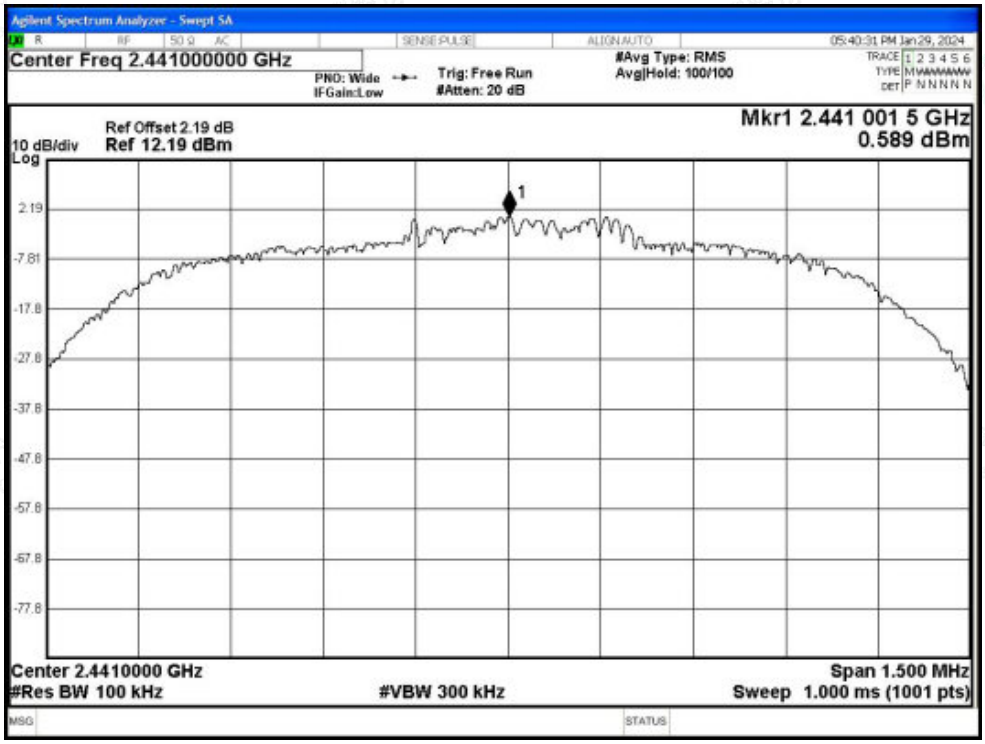
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



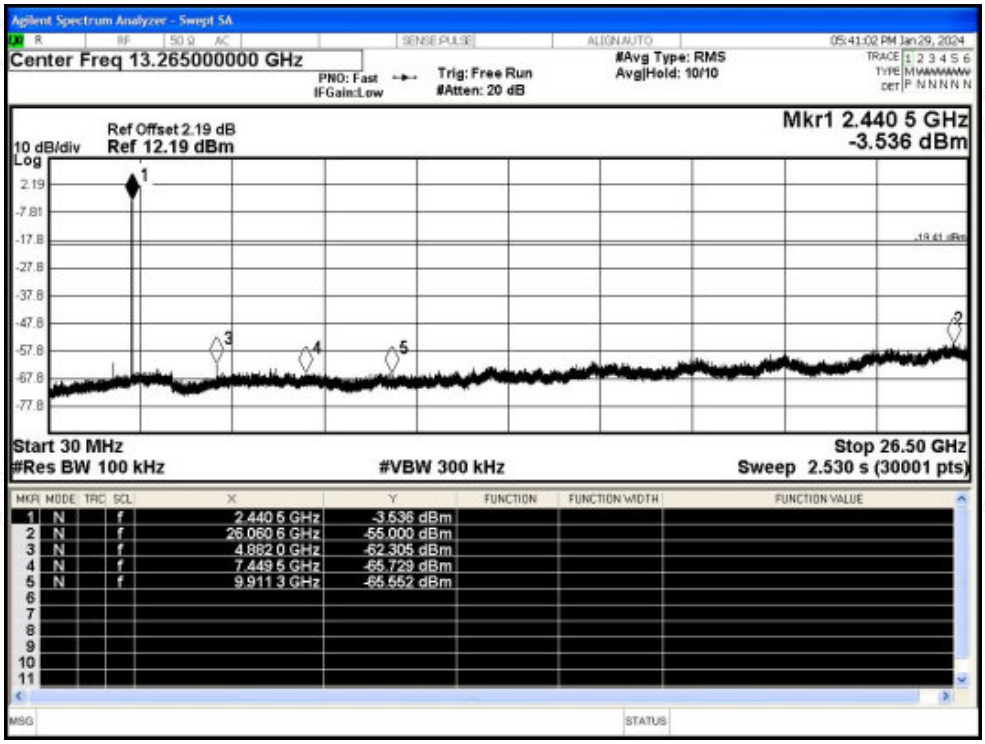
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



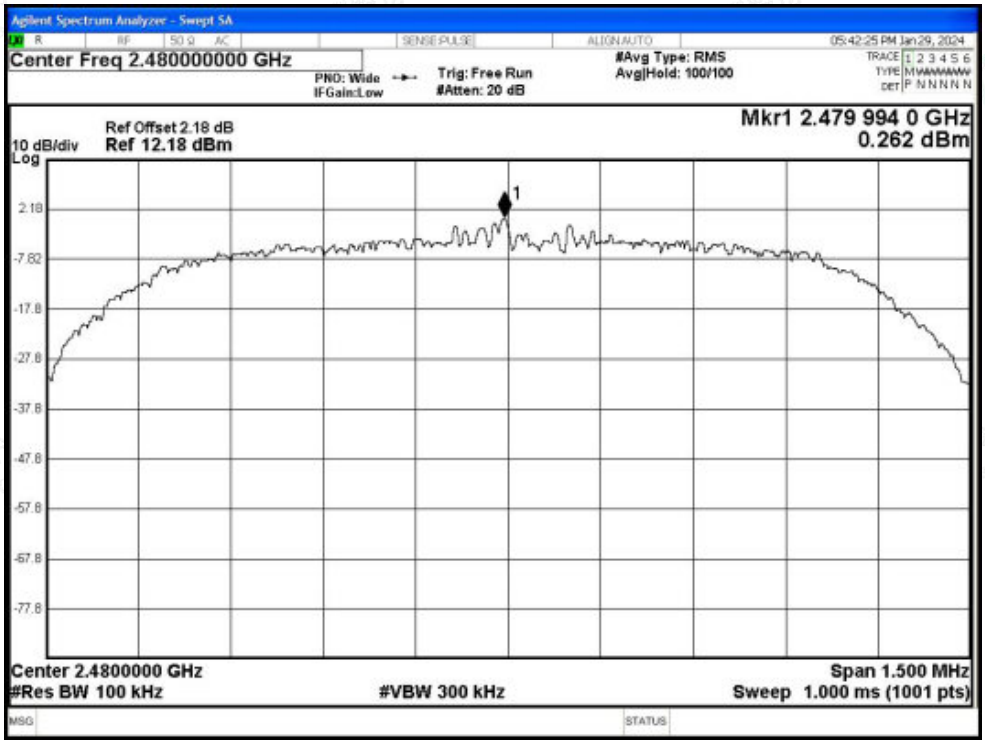
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



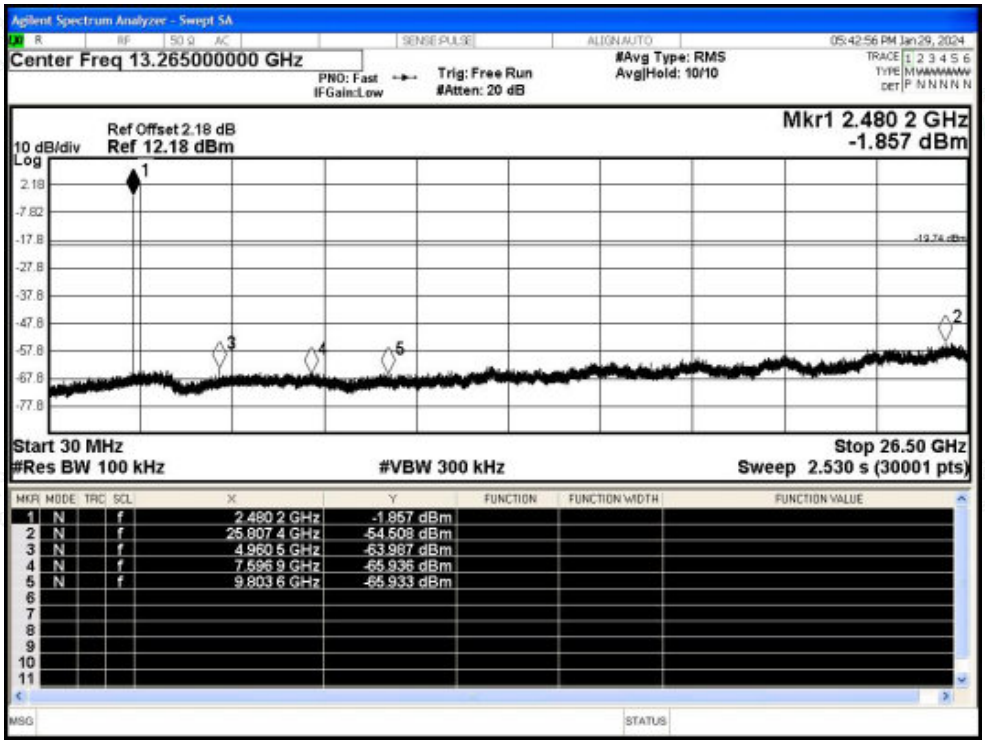
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



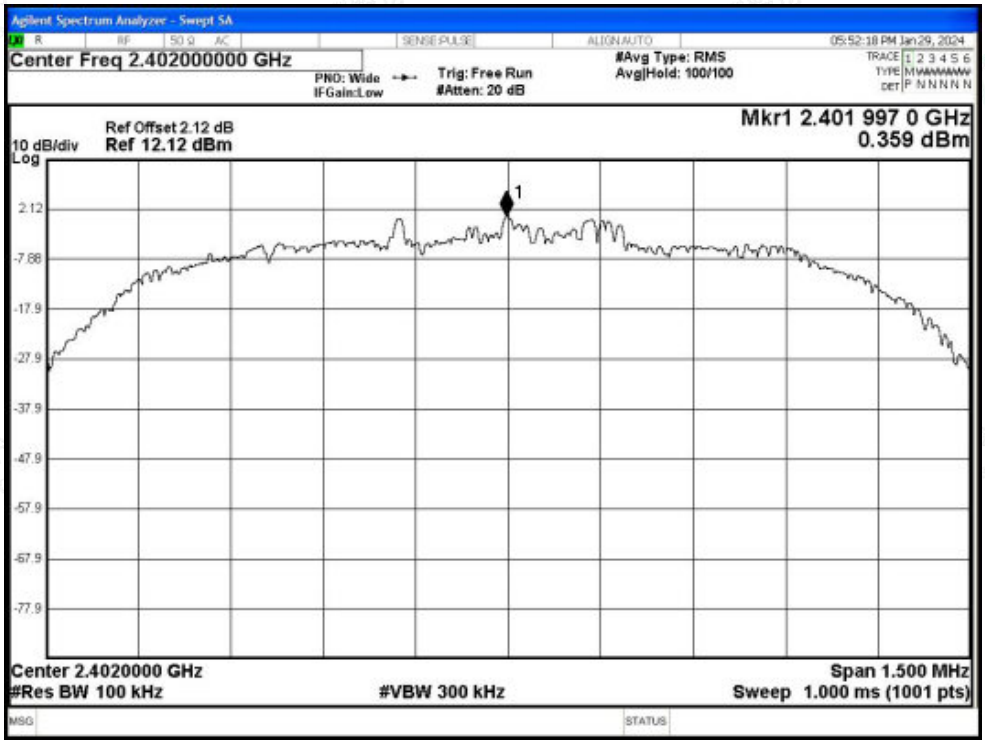
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



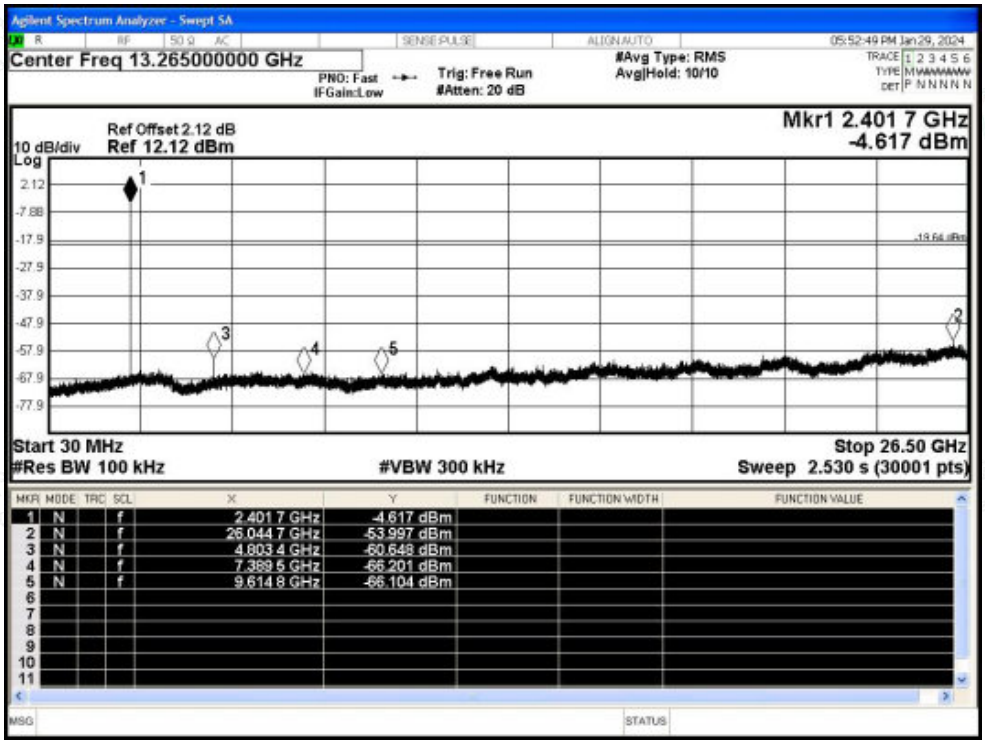
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



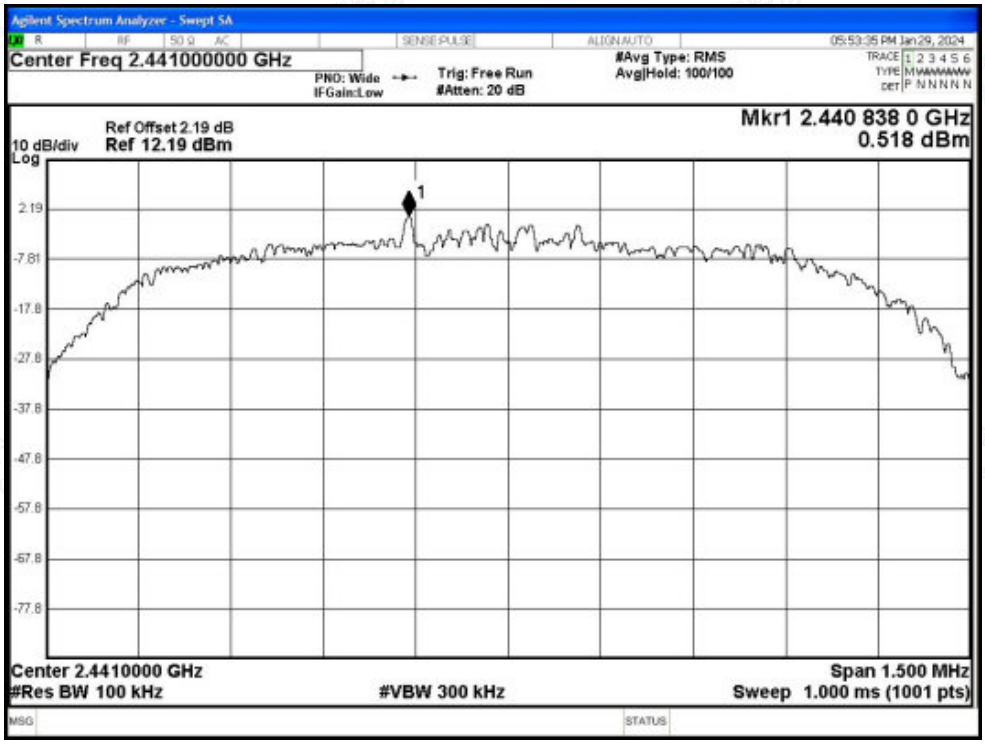
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



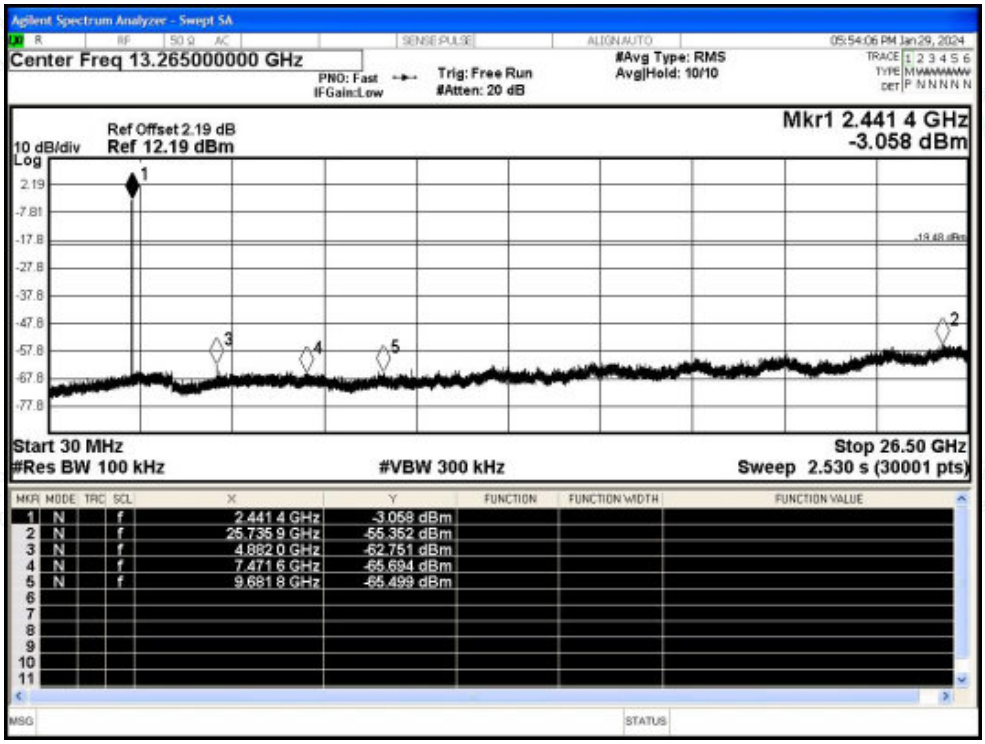
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



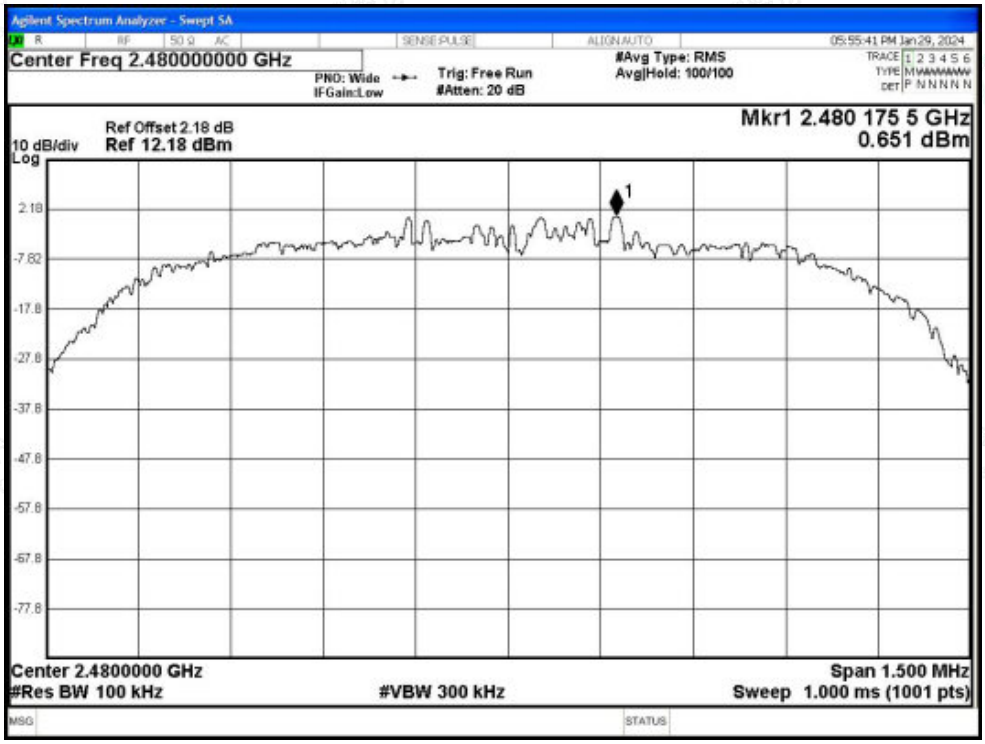
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



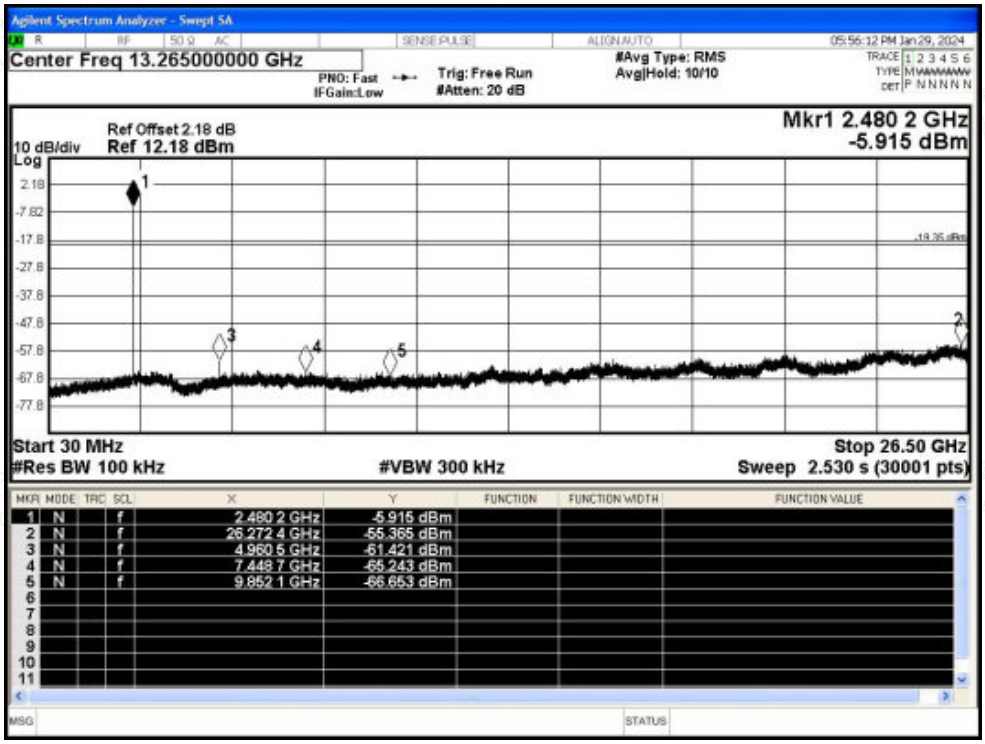
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

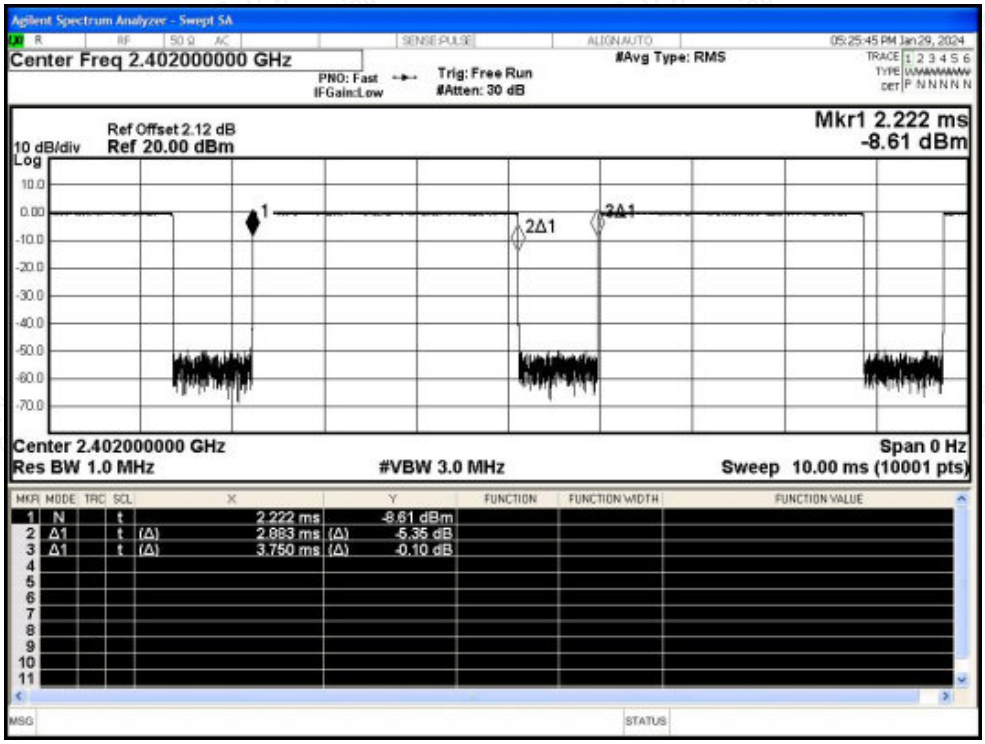


A.8 Duty Cycle

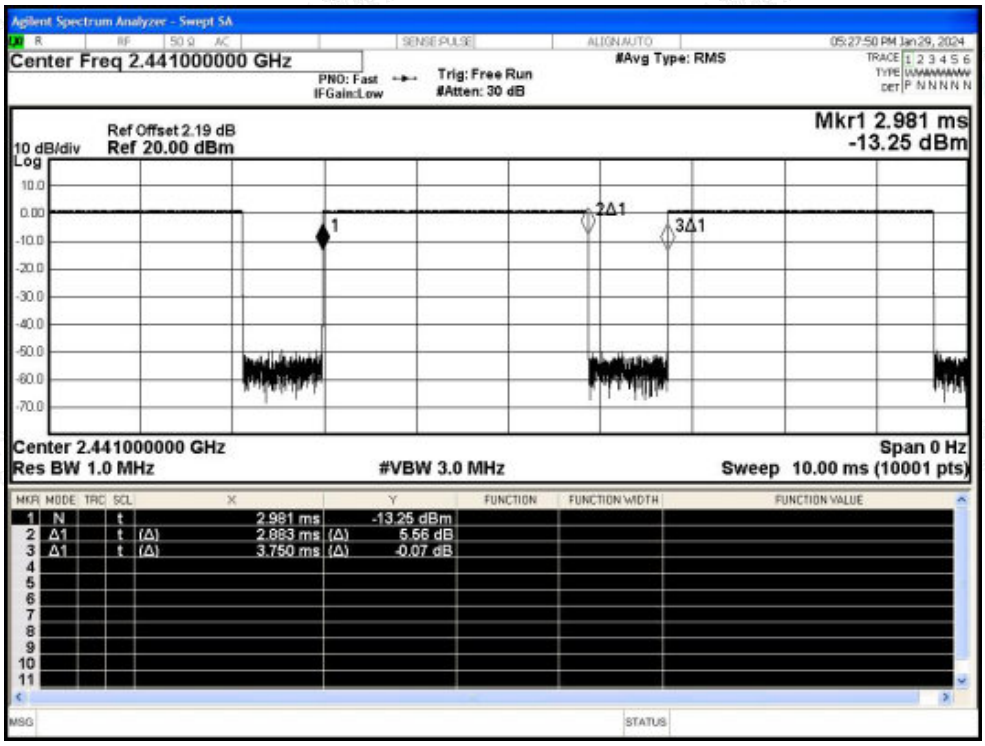
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.91	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35

Test Graphs

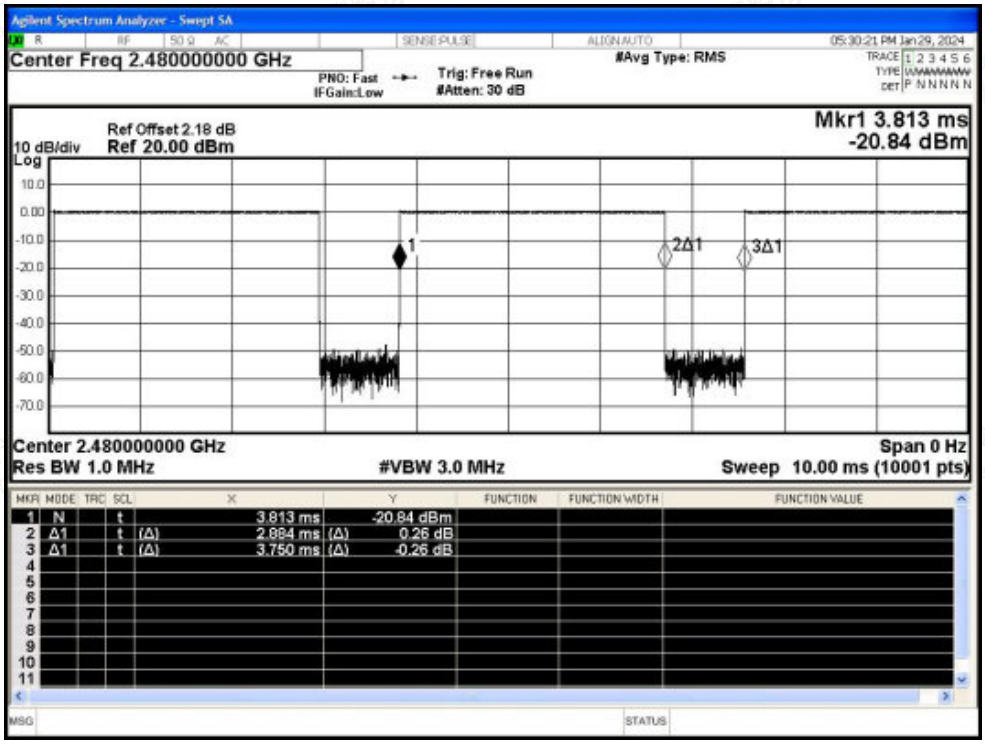
Duty Cycle NVNT 1-DH5 2402MHz Ant1



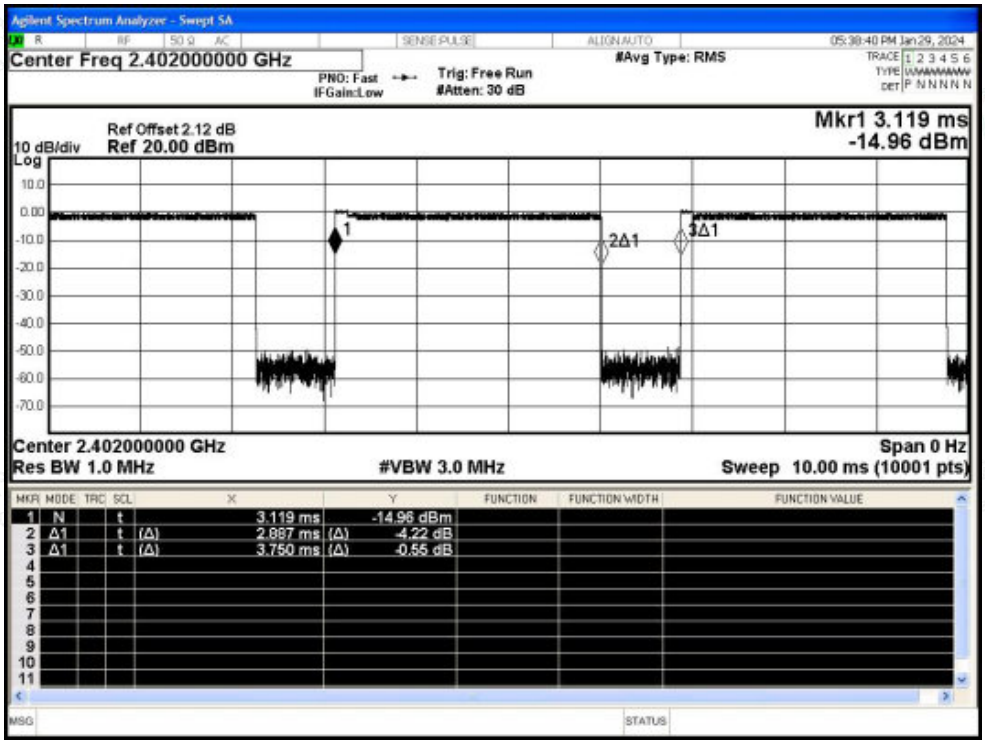
Duty Cycle NVNT 1-DH5 2441MHz Ant1



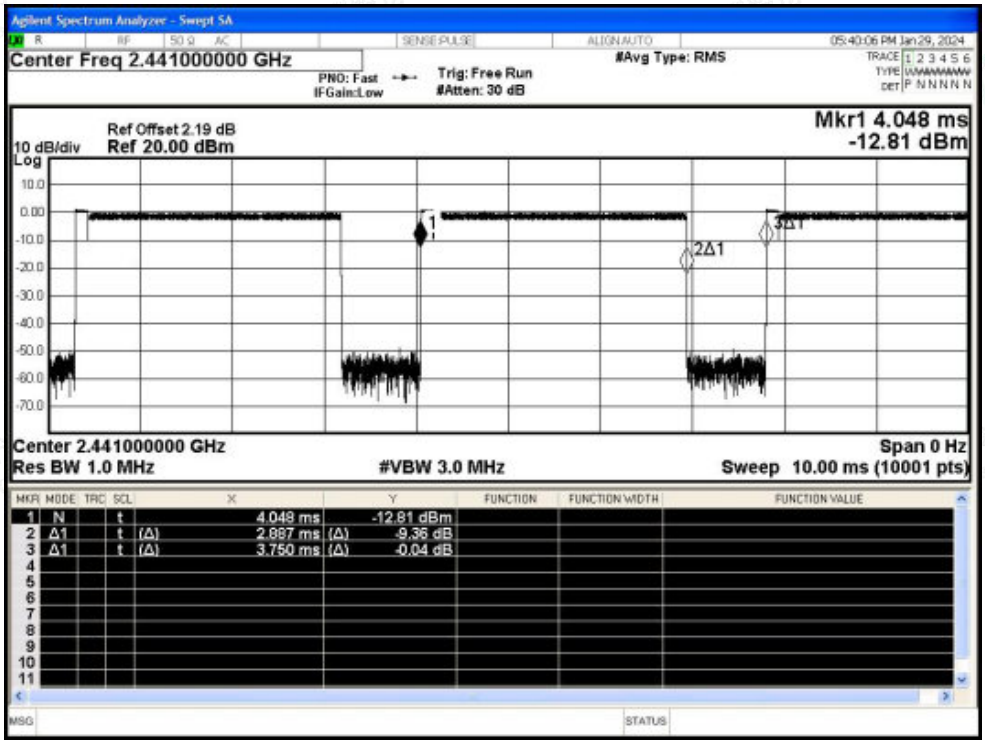
Duty Cycle NVNT 1-DH5 2480MHz Ant1



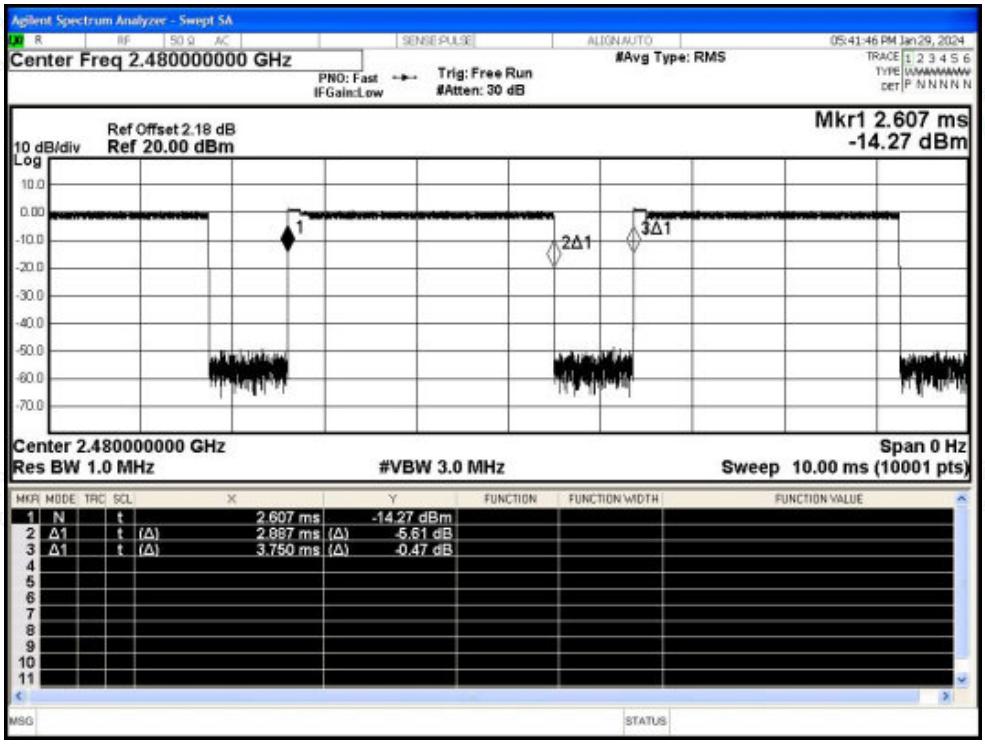
Duty Cycle NVNT 2-DH5 2402MHz Ant1



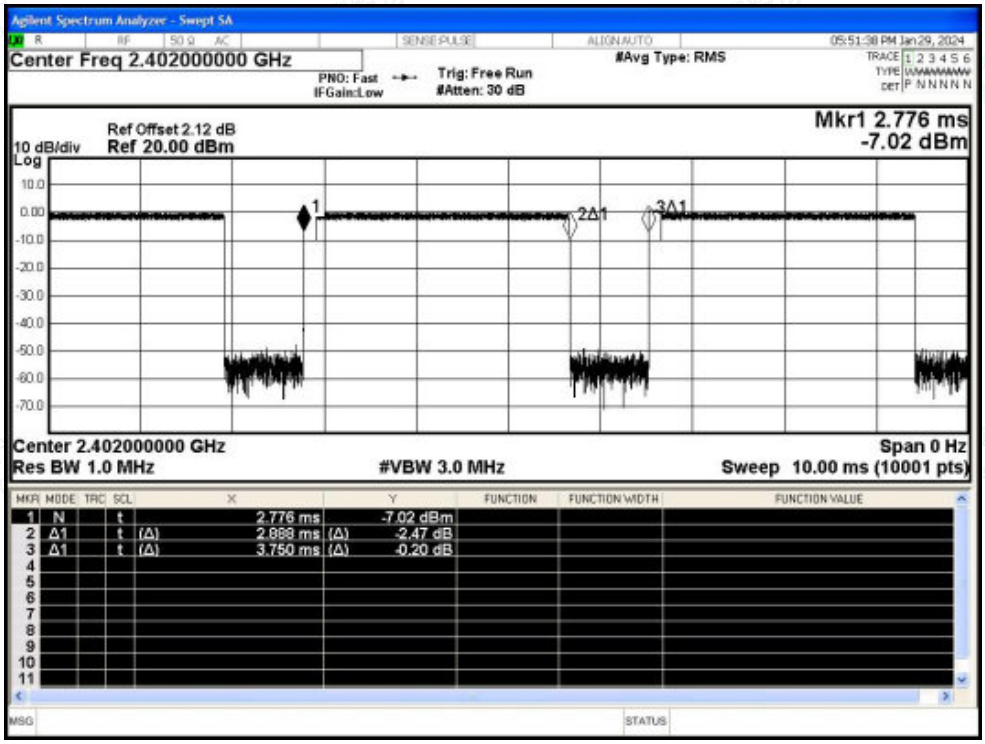
Duty Cycle NVNT 2-DH5 2441MHz Ant1



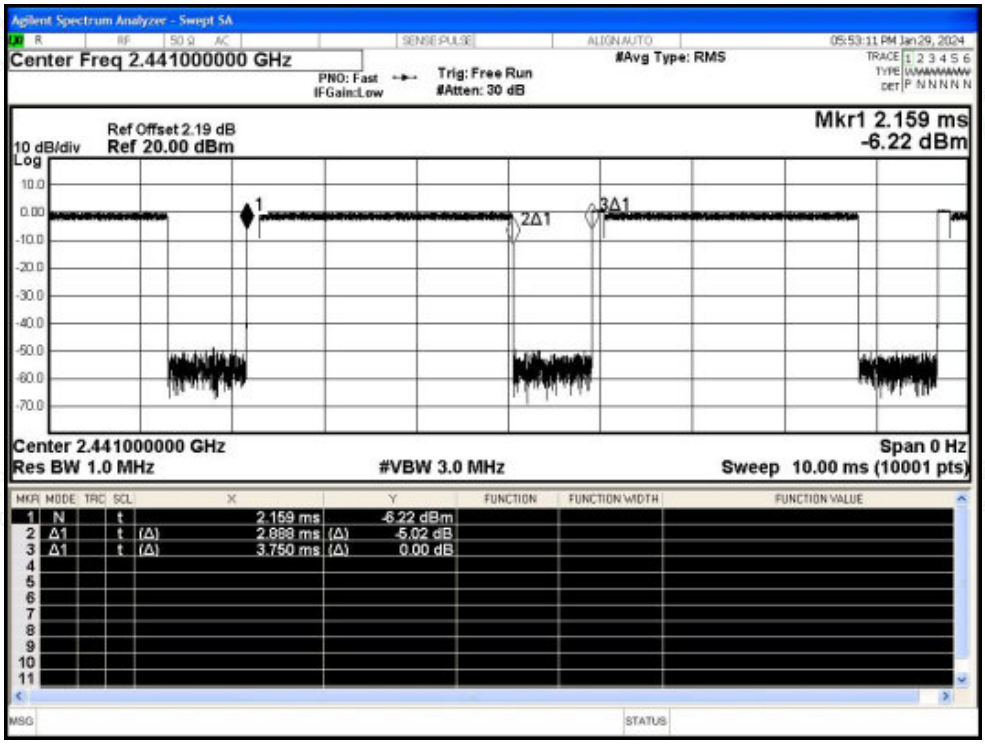
Duty Cycle NVNT 2-DH5 2480MHz Ant1



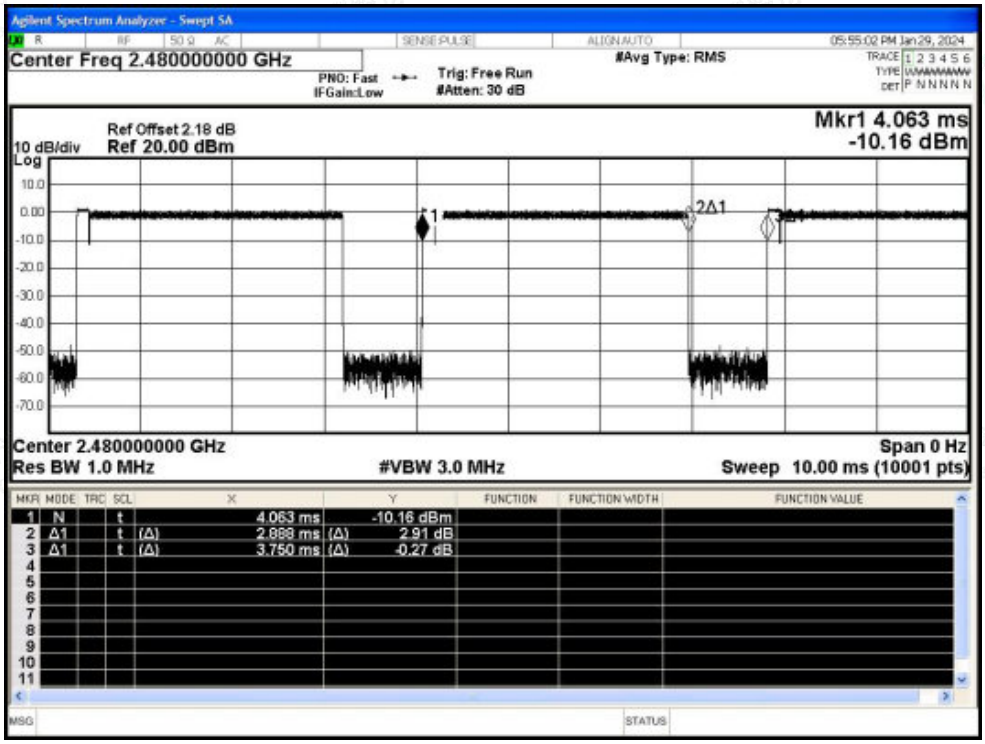
Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



Duty Cycle NVNT 3-DH5 2480MHz Ant1

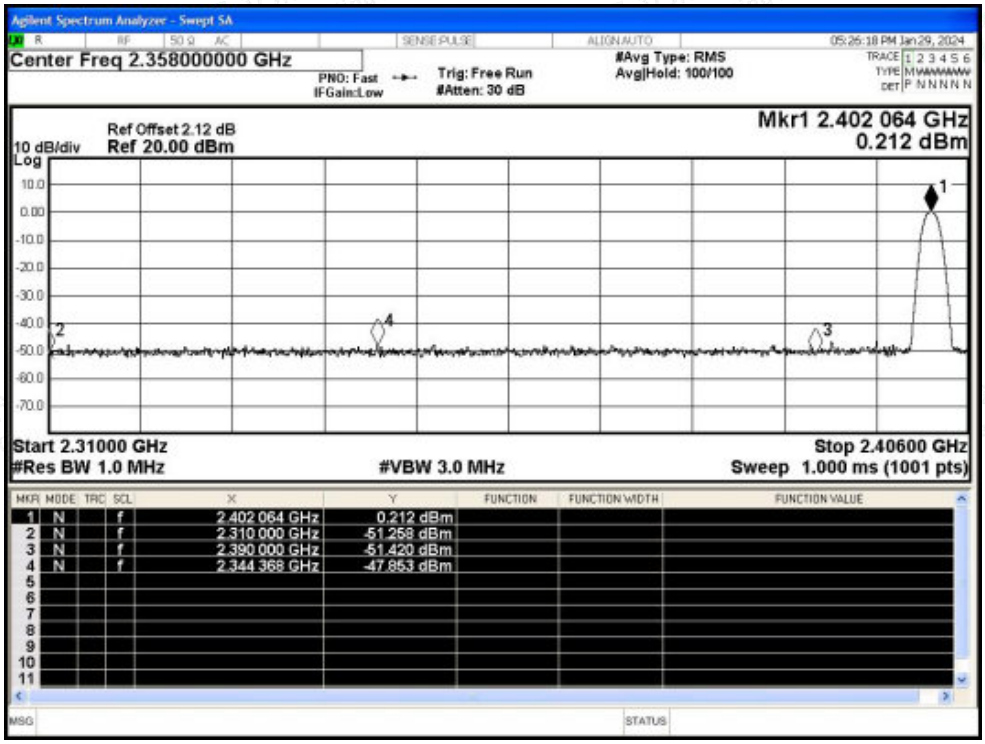


A.9 Restrict Band

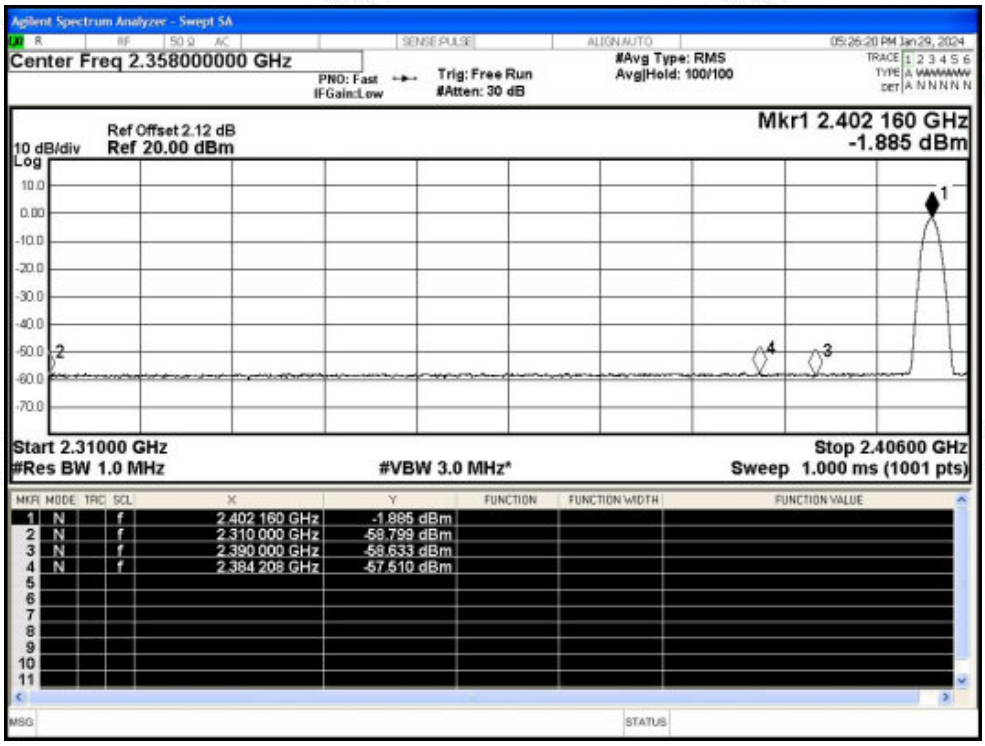
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.26	2	-	46	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.8	2	1.14	39.6	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2344.368	-47.85	2	-	49.41	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.208	-57.51	2	1.14	40.89	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.42	2	-	45.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.63	2	1.14	39.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.11	2	-	48.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.13	2	1.14	40.27	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.456	-47.42	2	-	49.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.648	-57.09	2	1.14	41.31	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.33	2	-	46.93	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.62	2	1.14	40.78	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.78	2	-	47.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.58	2	1.14	39.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2342.832	-47.52	2	-	49.74	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2367.312	-57.3	2	1.14	41.1	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.46	2	-	46.8	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.96	2	1.14	40.44	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.13	2	-	48.13	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.86	2	1.14	40.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.016	-46.95	2	-	50.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2495.224	-57.12	2	1.14	41.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.06	2	-	47.2	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.79	2	1.14	40.61	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.67	2	-	47.59	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.72	2	1.13	39.67	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2337.456	-47.53	2	-	49.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2357.712	-57.52	2	1.13	40.87	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.17	2	-	46.09	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.26	2	1.13	40.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.82	2	-	49.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.78	2	1.13	40.61	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2496.112	-46.85	2	-	50.41	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2496.88	-56.95	2	1.13	41.44	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.83	2	-	48.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.9	2	1.13	40.49	Average	54	Pass

Test Graphs

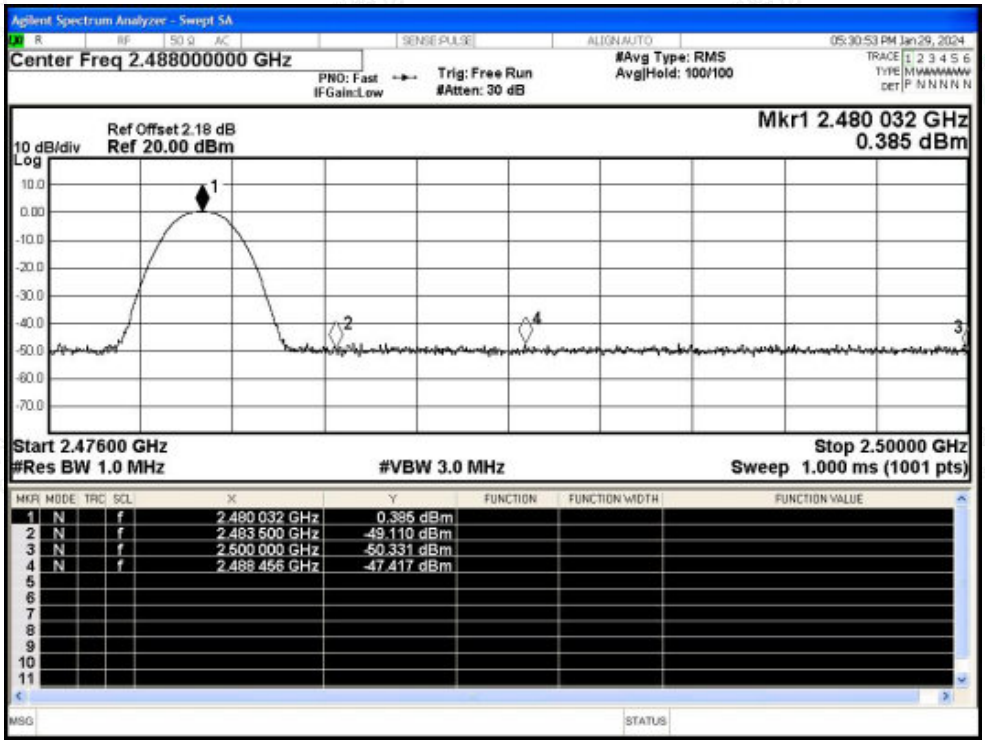
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



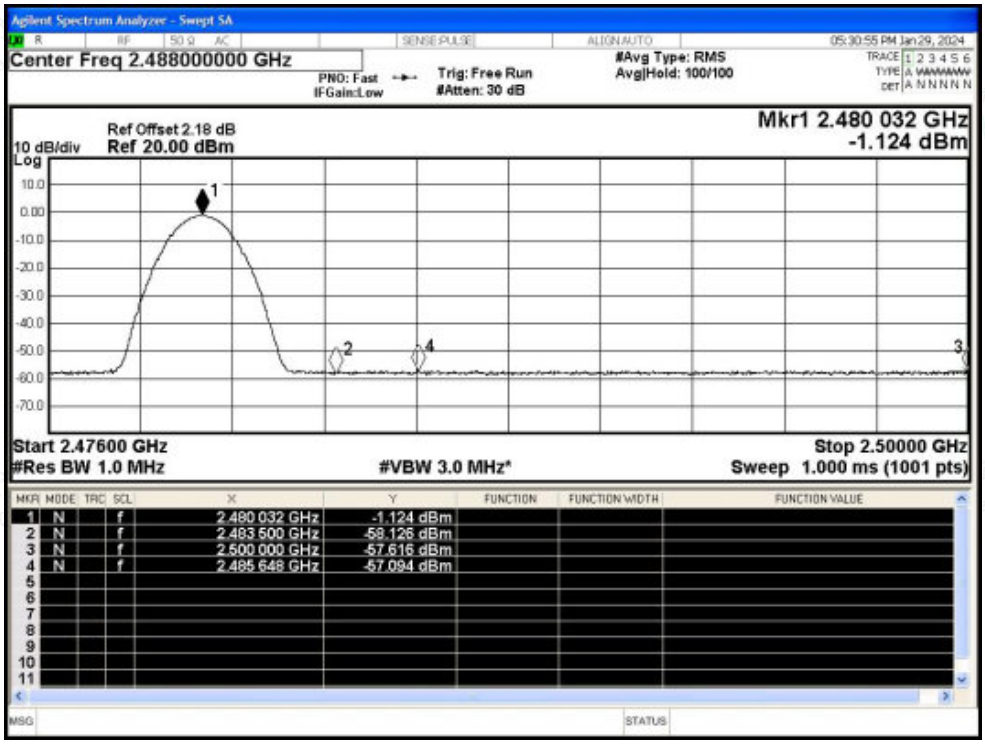
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



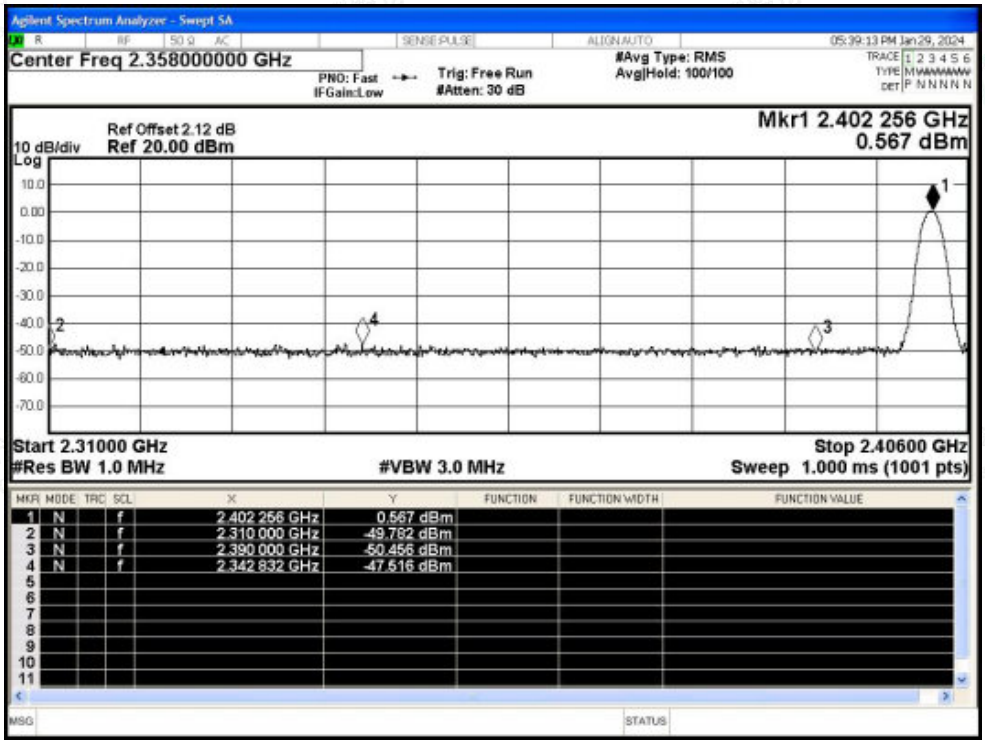
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



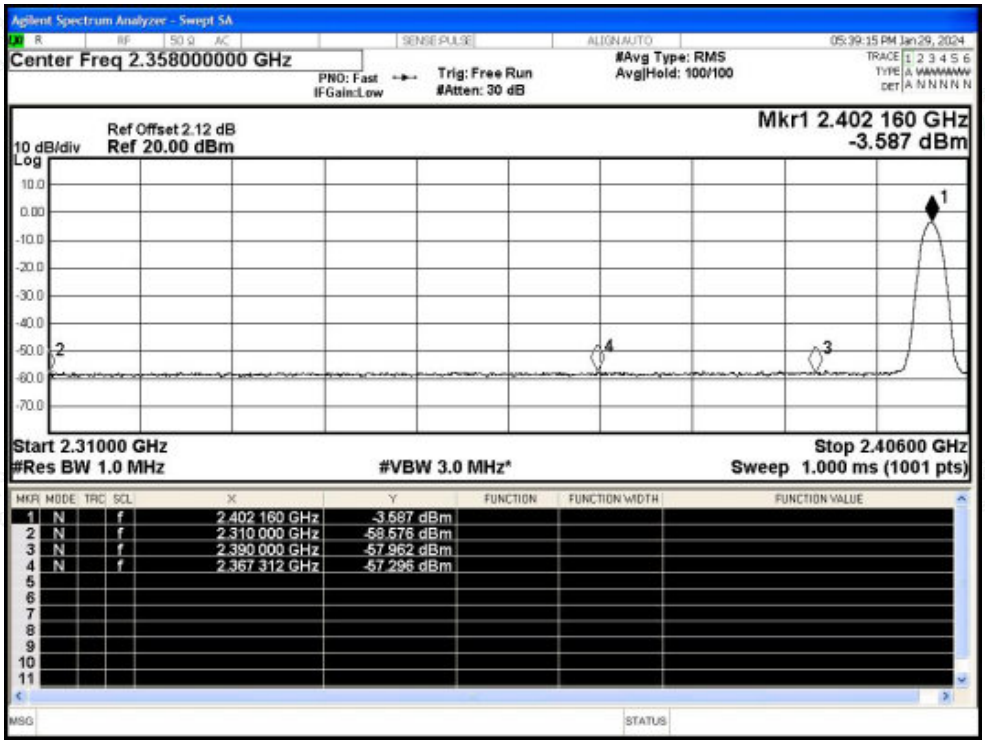
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



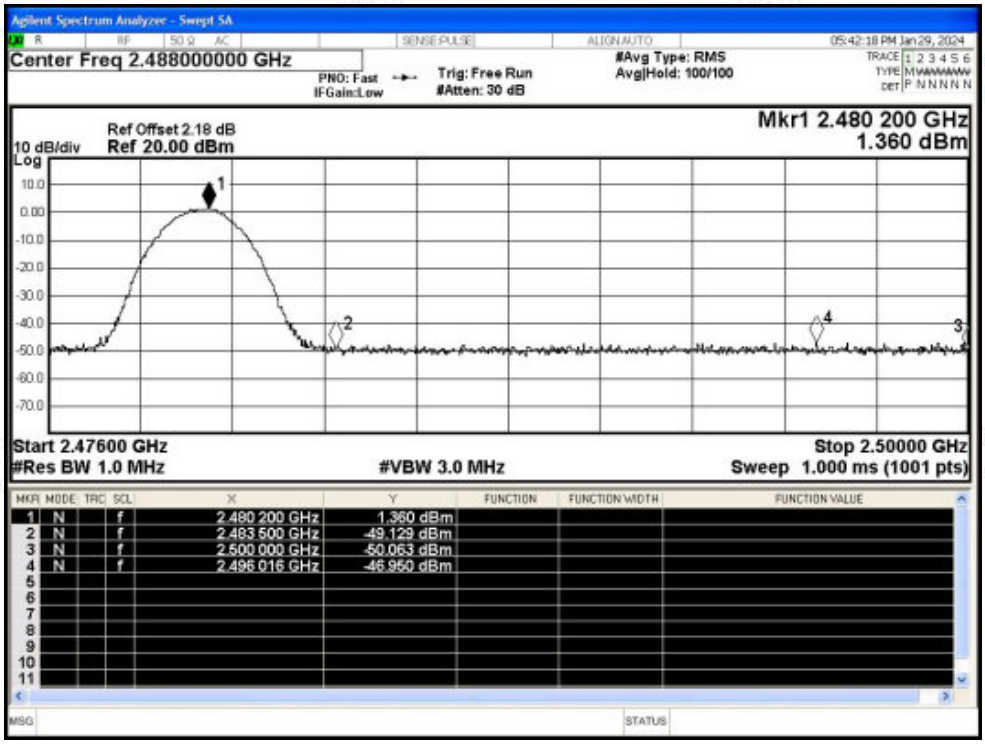
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



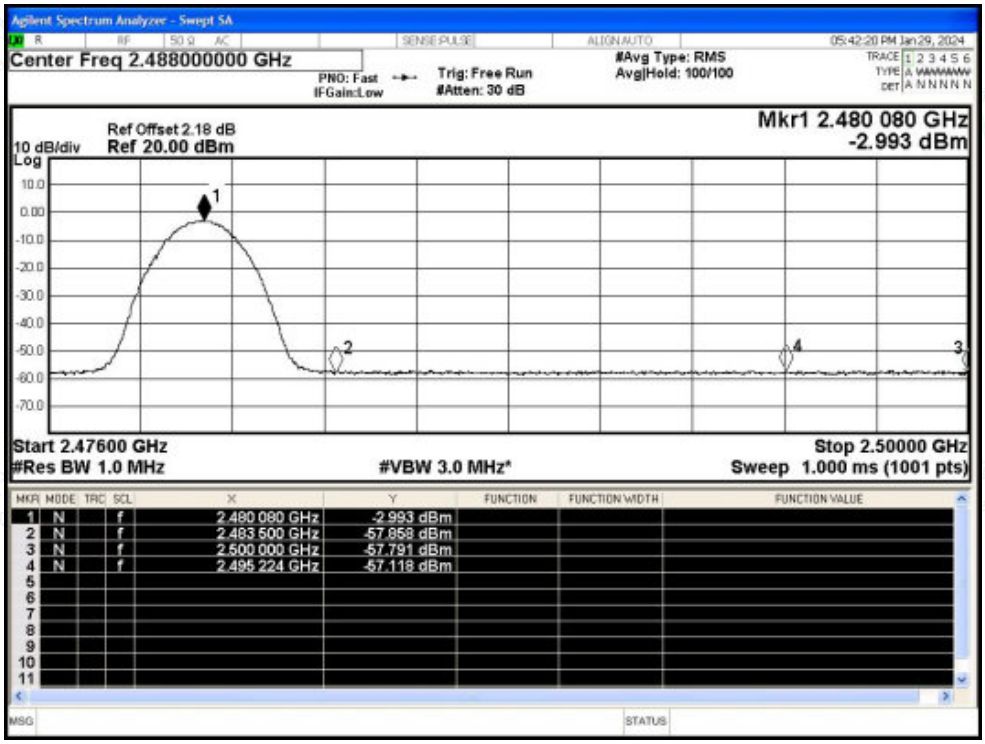
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



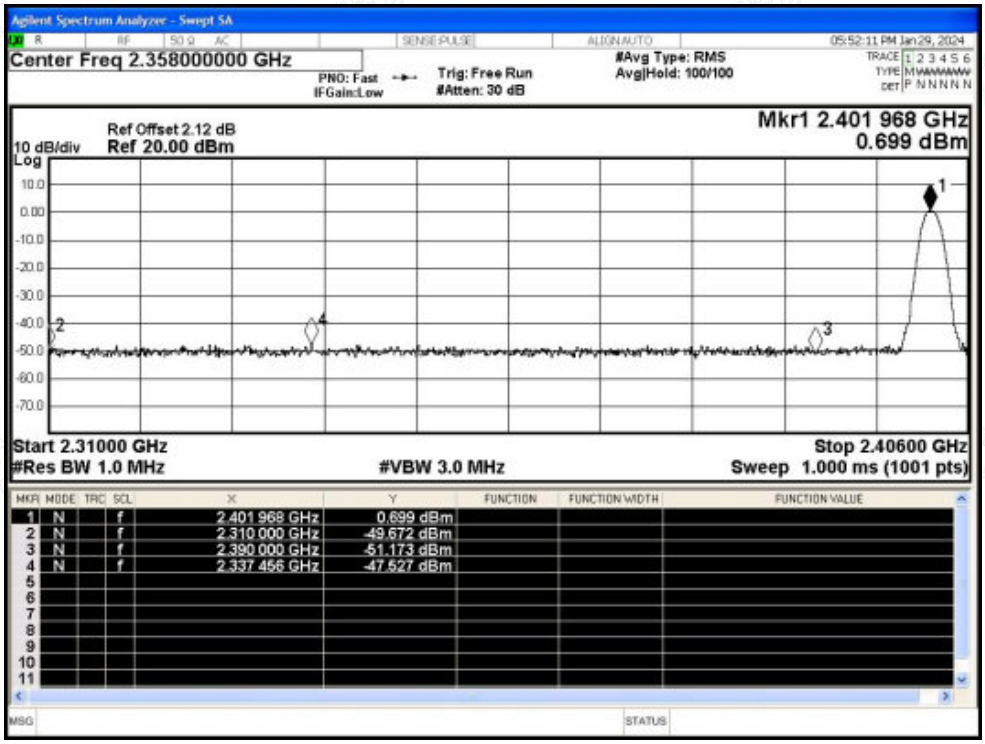
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



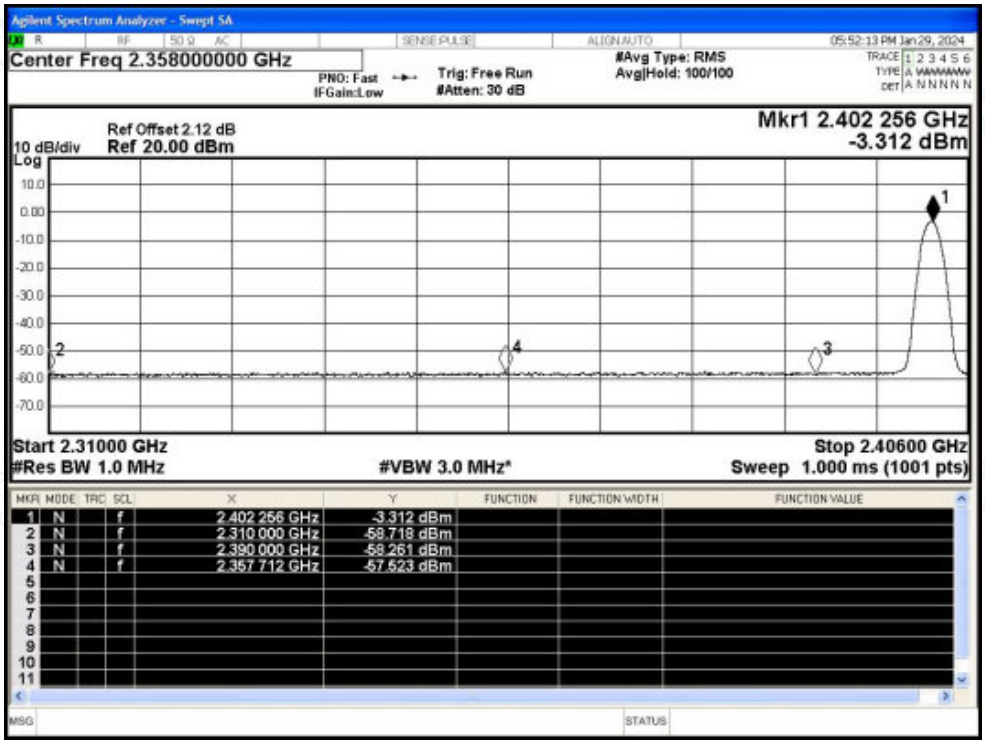
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



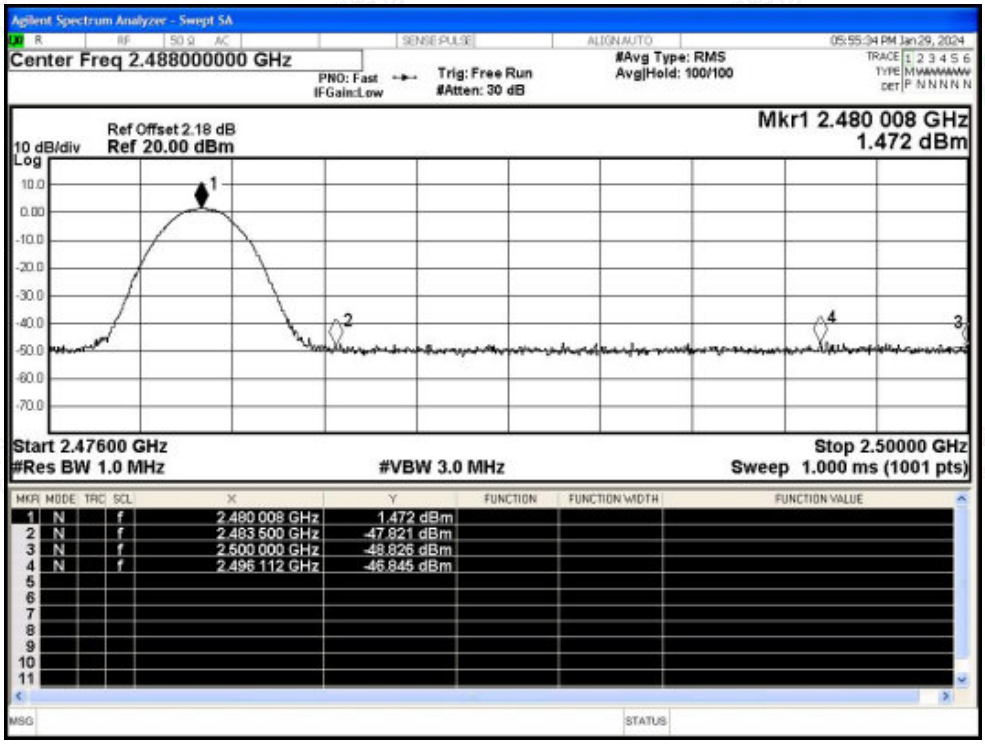
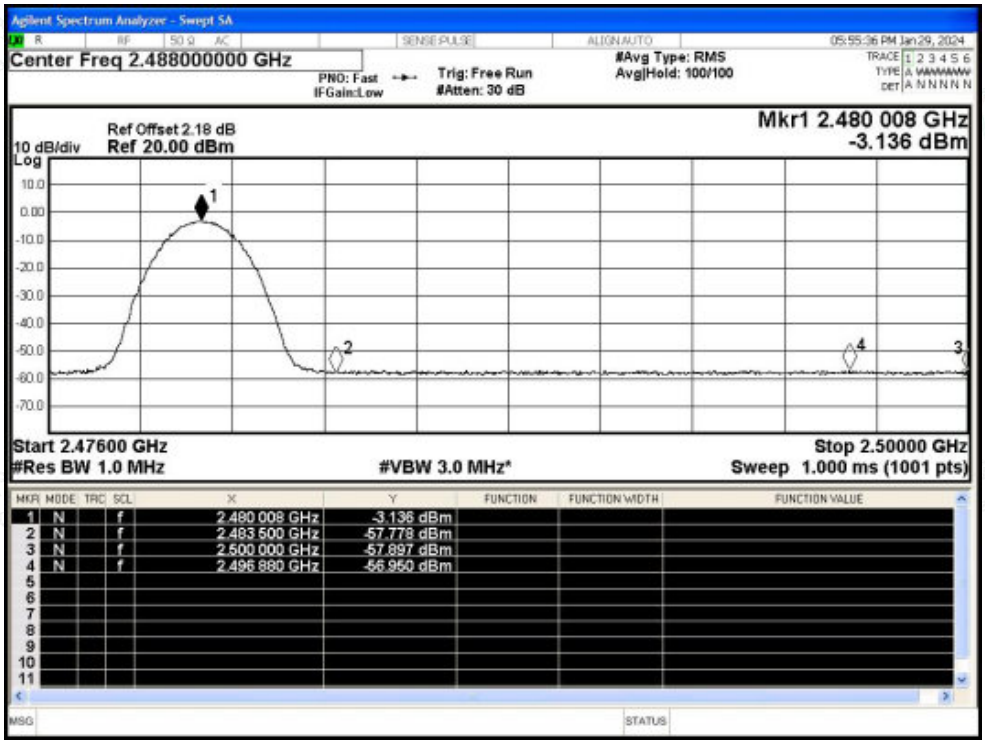
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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