Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95ZPLUS

Environmental Conditions

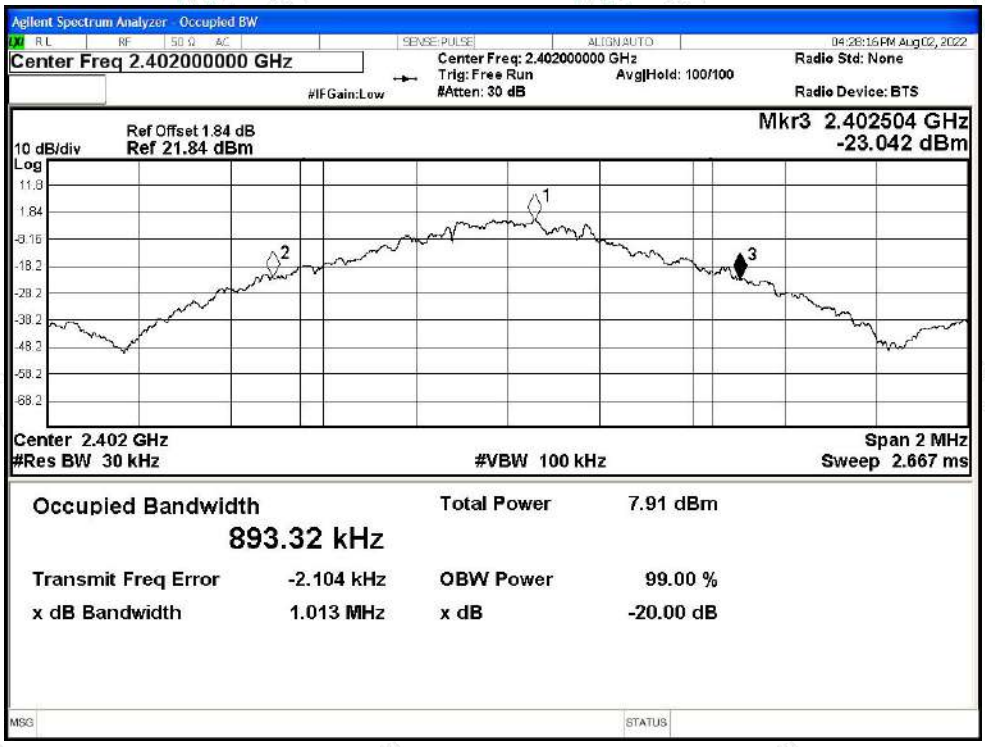
Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan

A.1 20dB Bandwidth

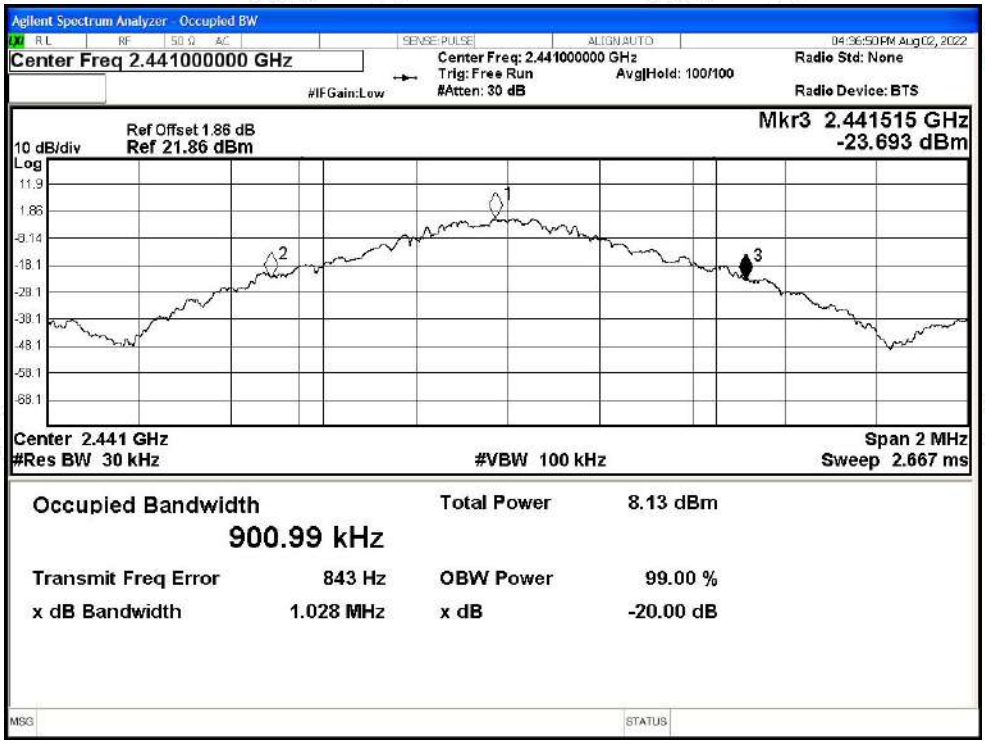
Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.013	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.028	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.029	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.281	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.312	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.292	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.341	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.306	N/A	Pass

Test Graphs

20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

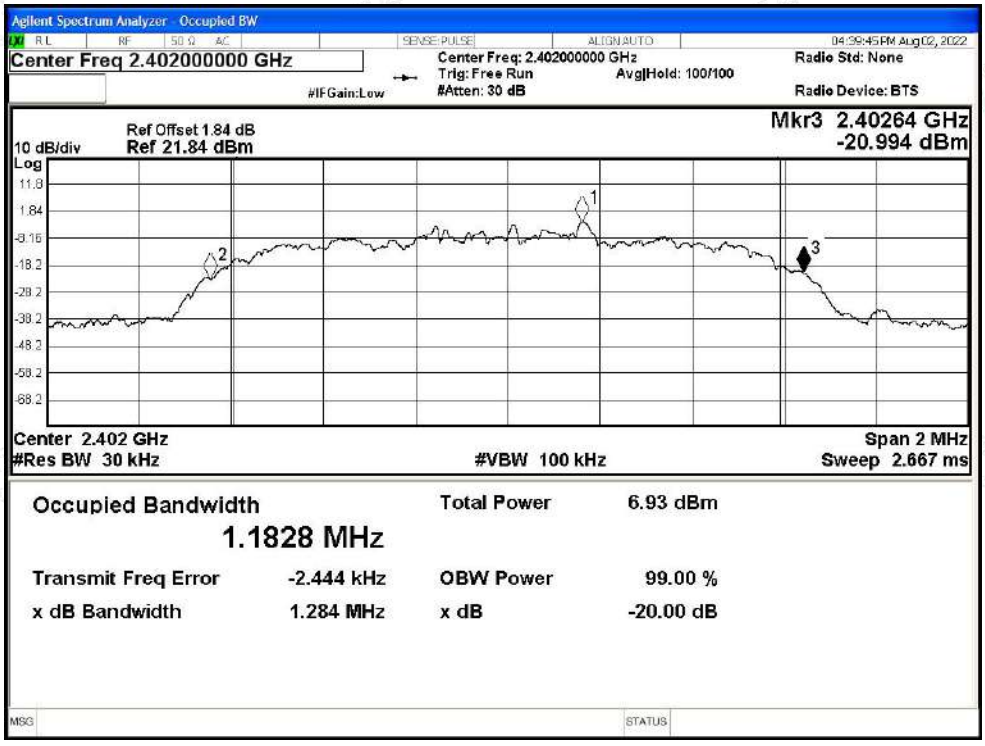


20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

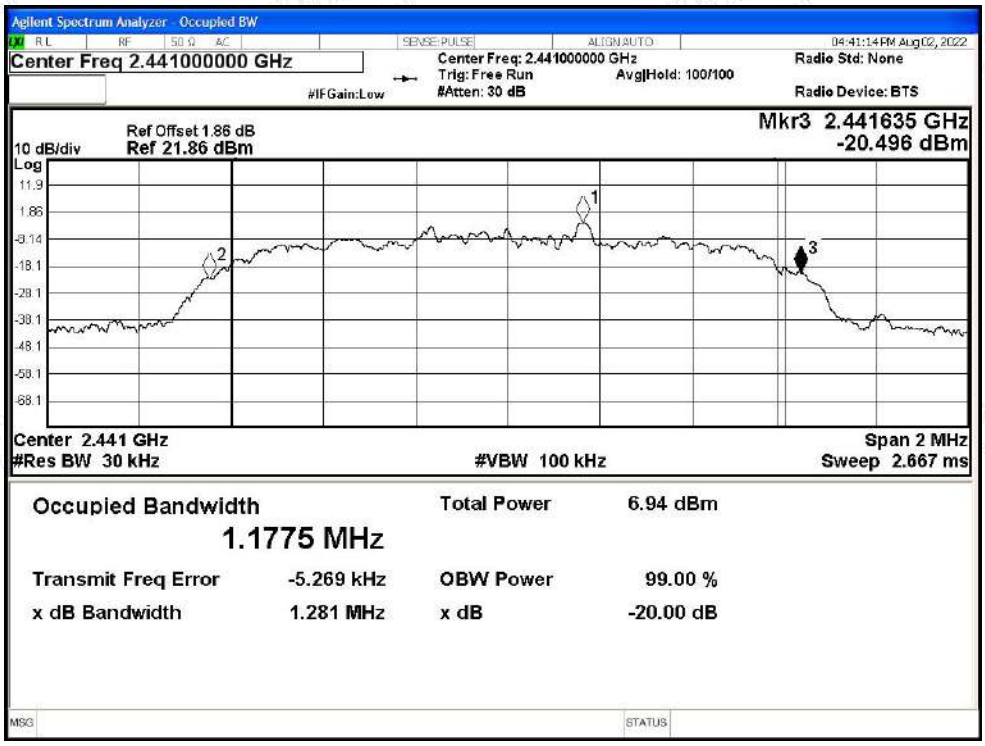


20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

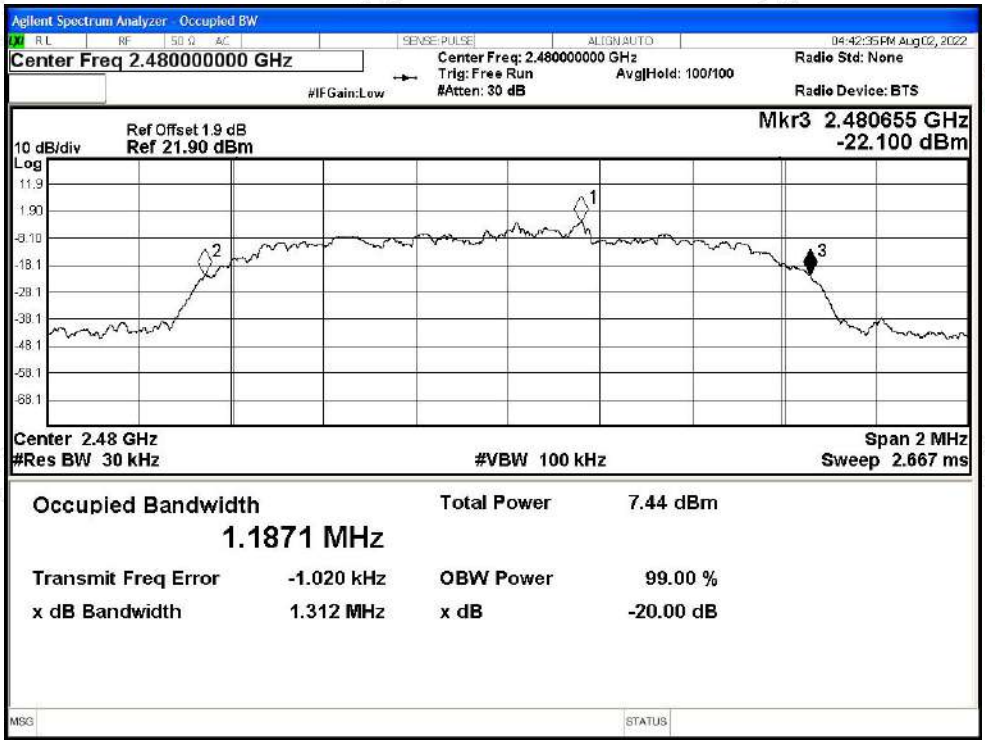
20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



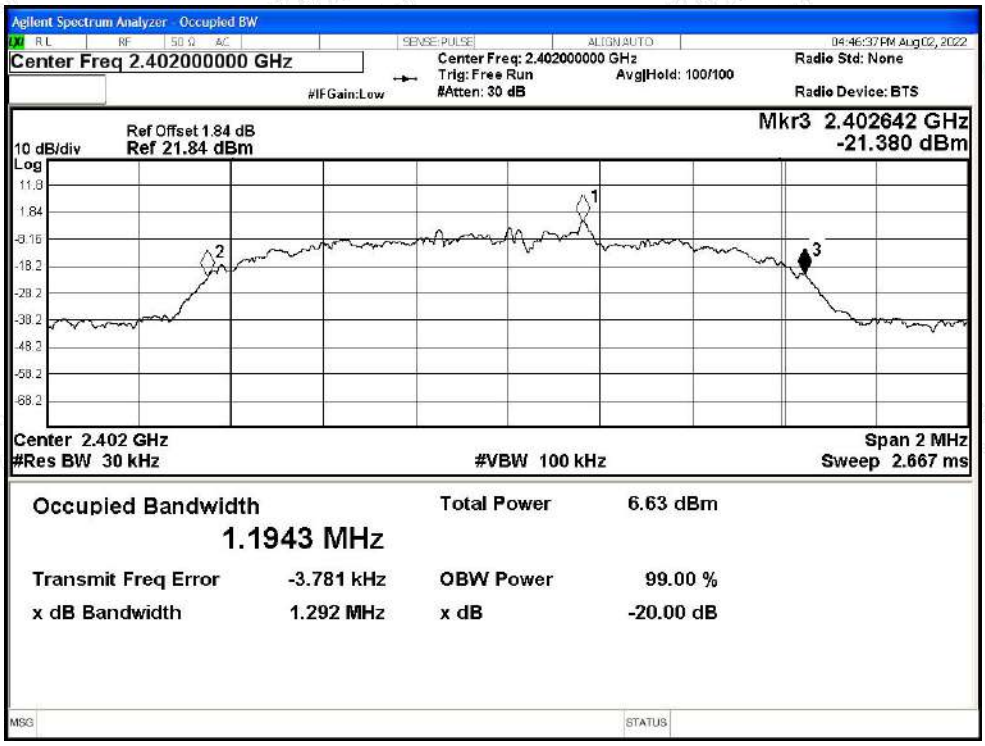
20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



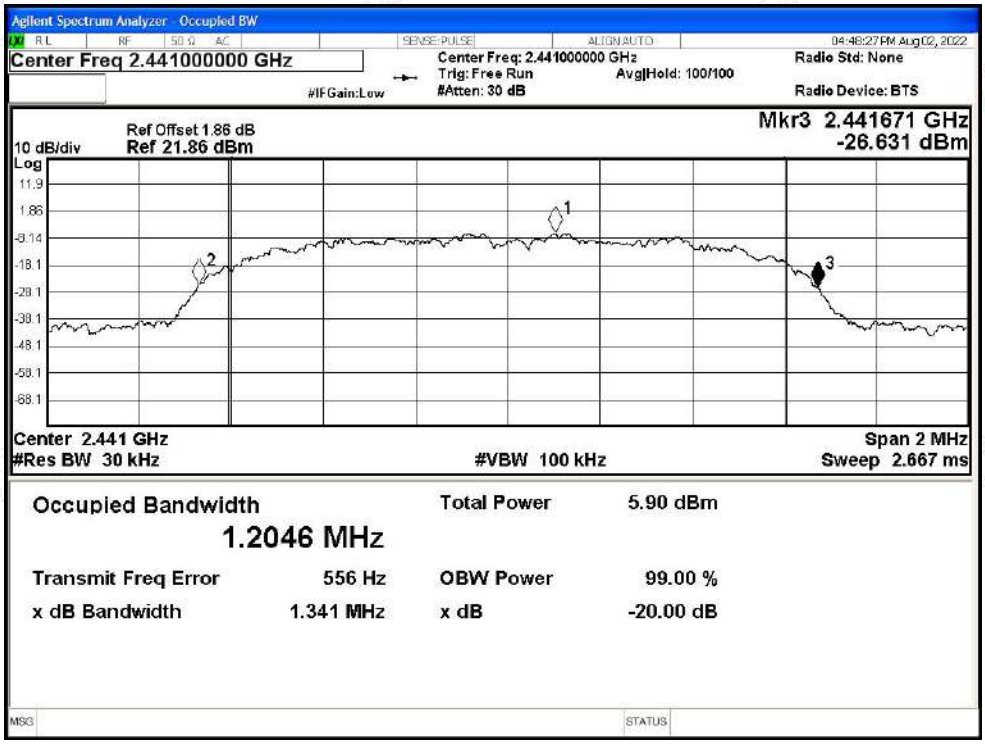
20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



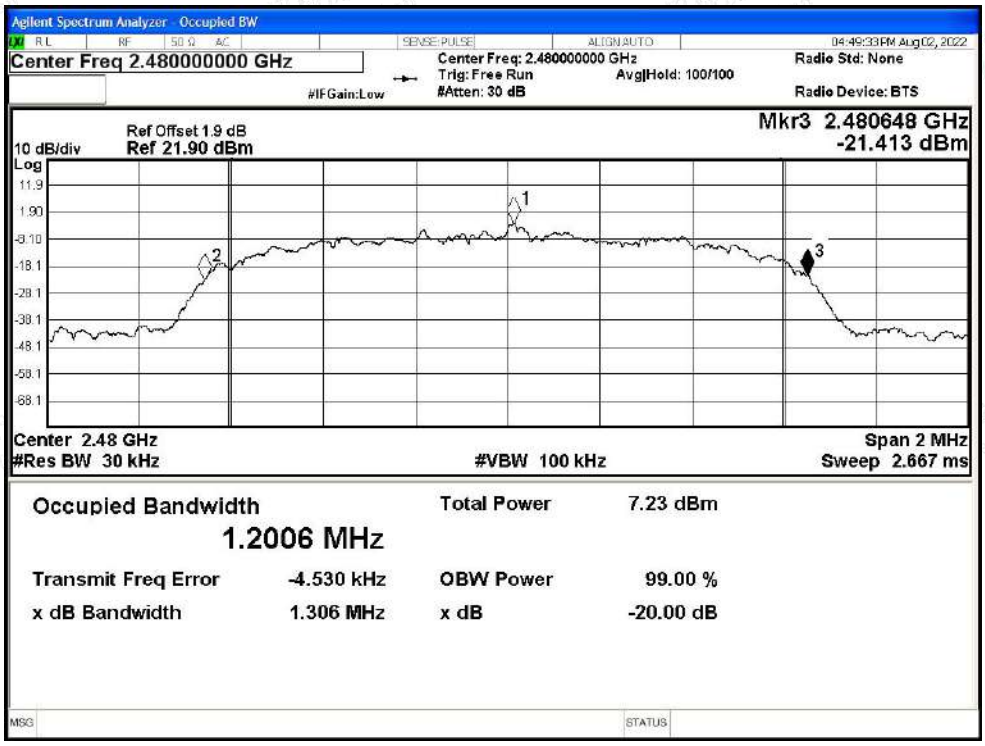
20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

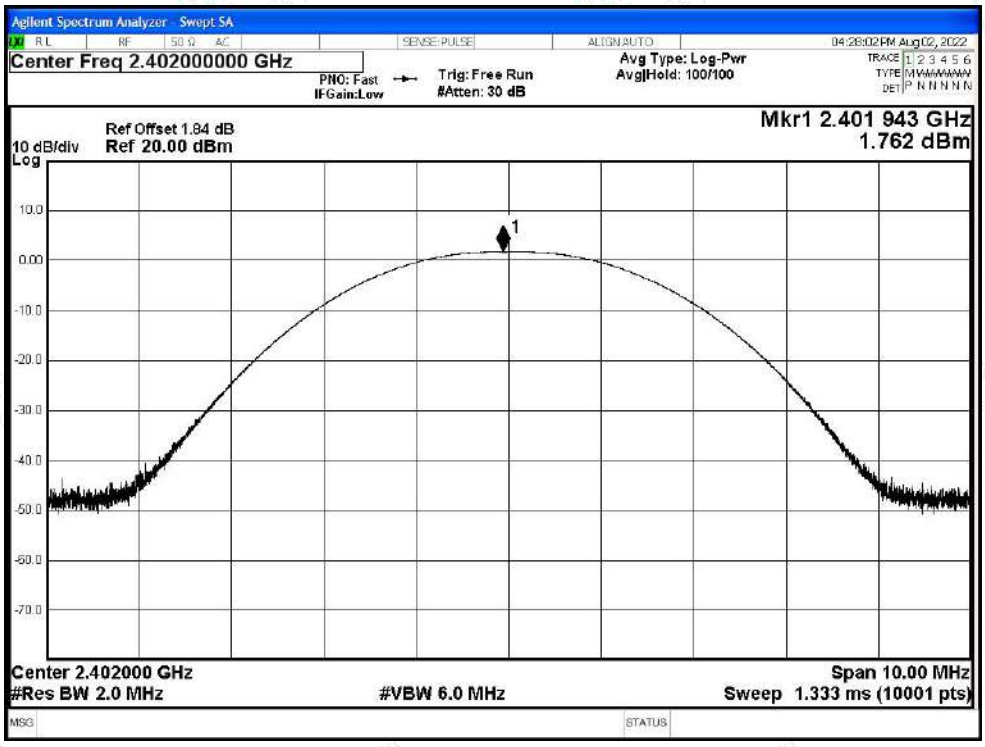


A.2 Maximum Conducted Output Power

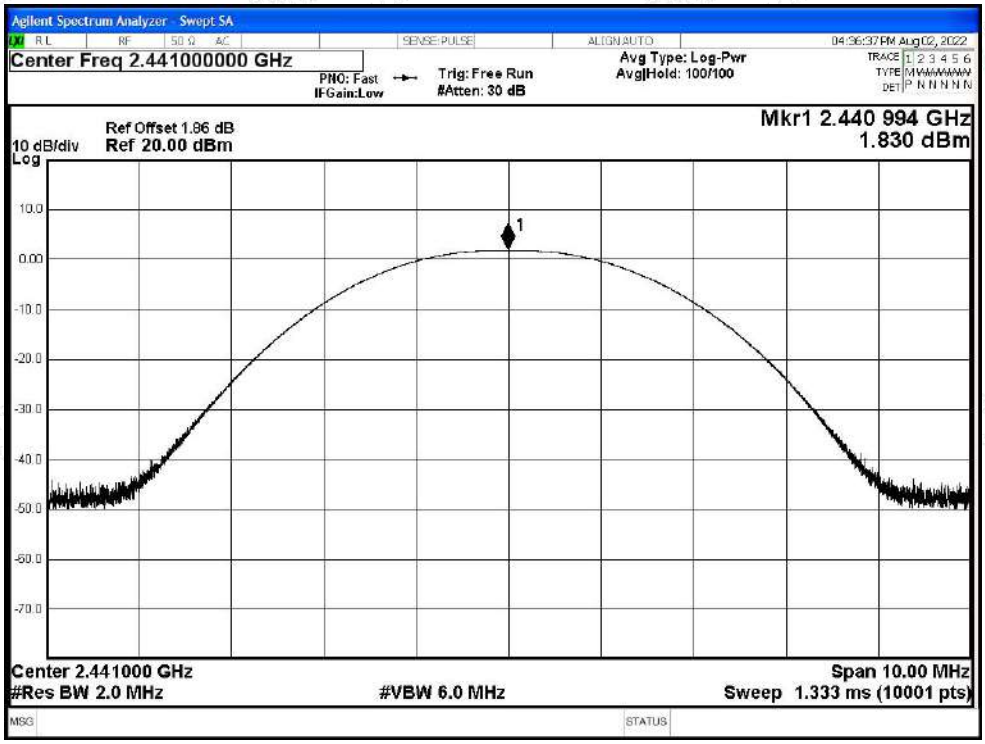
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.76	21	Pass
NVNT	1-DH5	2441	Ant1	1.83	21	Pass
NVNT	1-DH5	2480	Ant1	2.66	21	Pass
NVNT	2-DH5	2402	Ant1	1.3	21	Pass
NVNT	2-DH5	2441	Ant1	1.67	21	Pass
NVNT	2-DH5	2480	Ant1	2.51	21	Pass
NVNT	3-DH5	2402	Ant1	1.45	21	Pass
NVNT	3-DH5	2441	Ant1	1.82	21	Pass
NVNT	3-DH5	2480	Ant1	2.61	21	Pass

Test Graphs

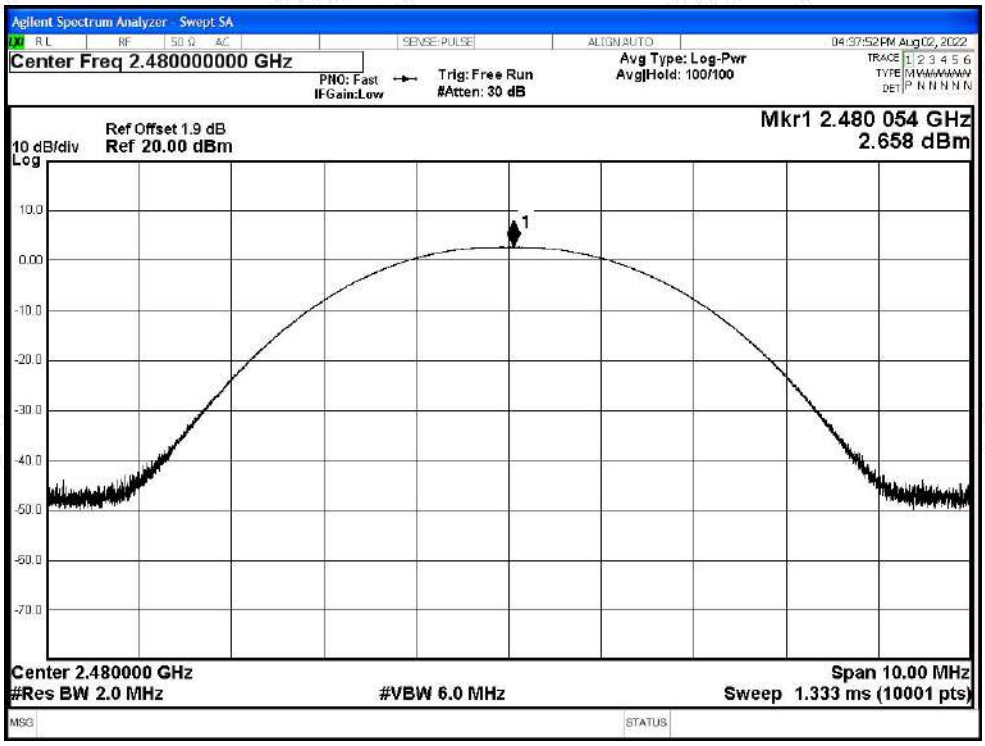
Power NVNT 1-DH5 2402MHz Ant1



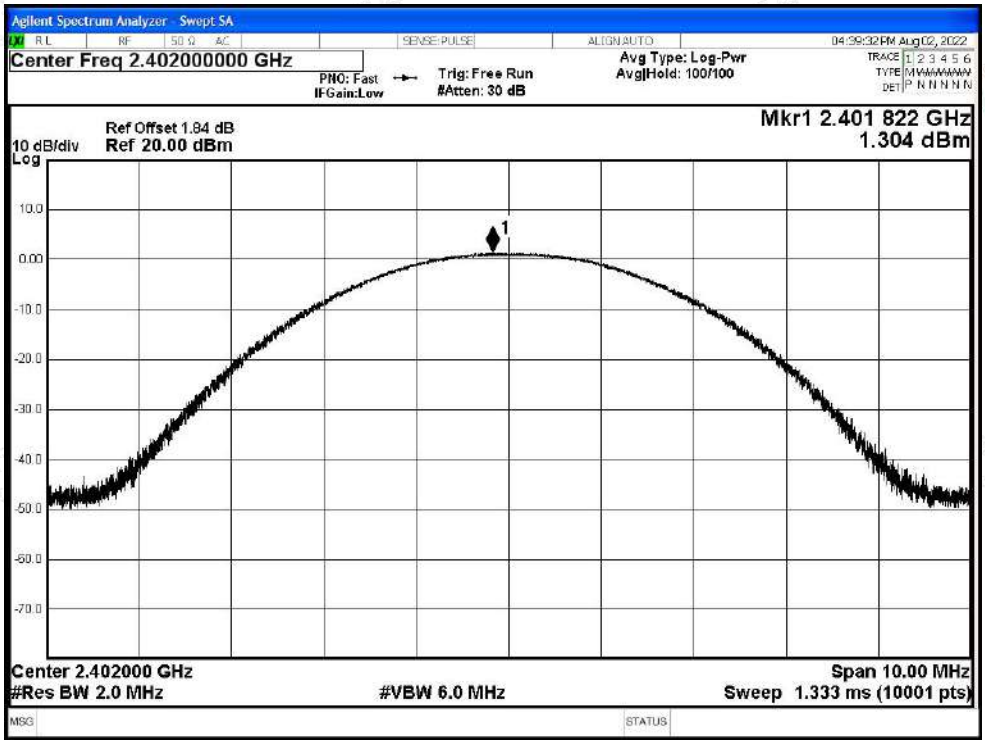
Power NVNT 1-DH5 2441MHz Ant1



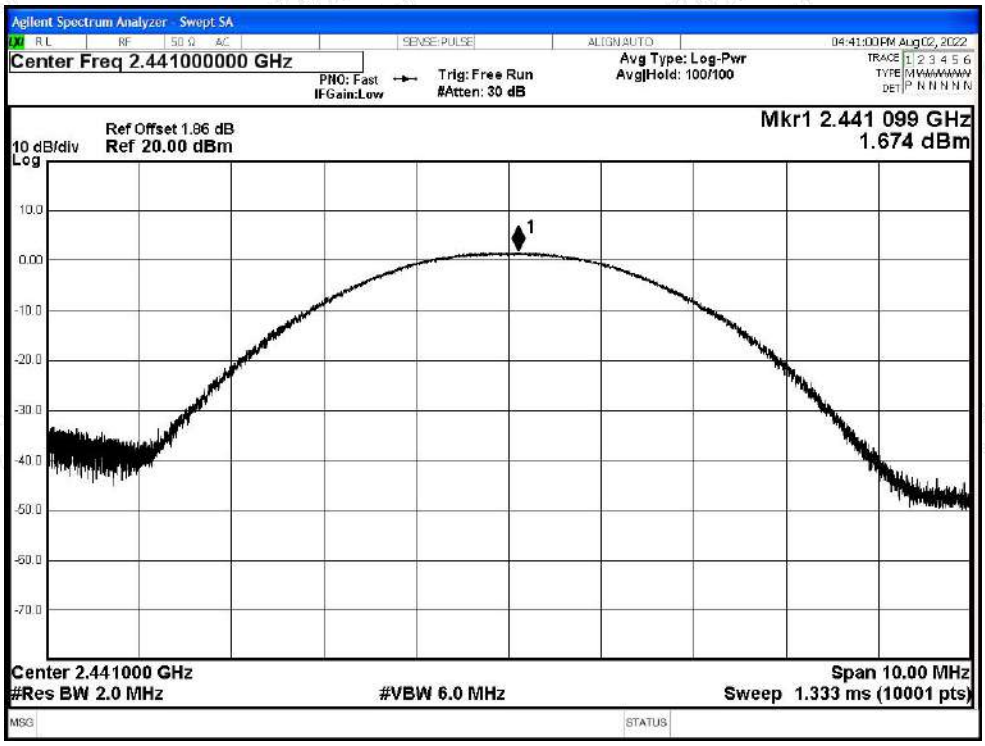
Power NVNT 1-DH5 2480MHz Ant1



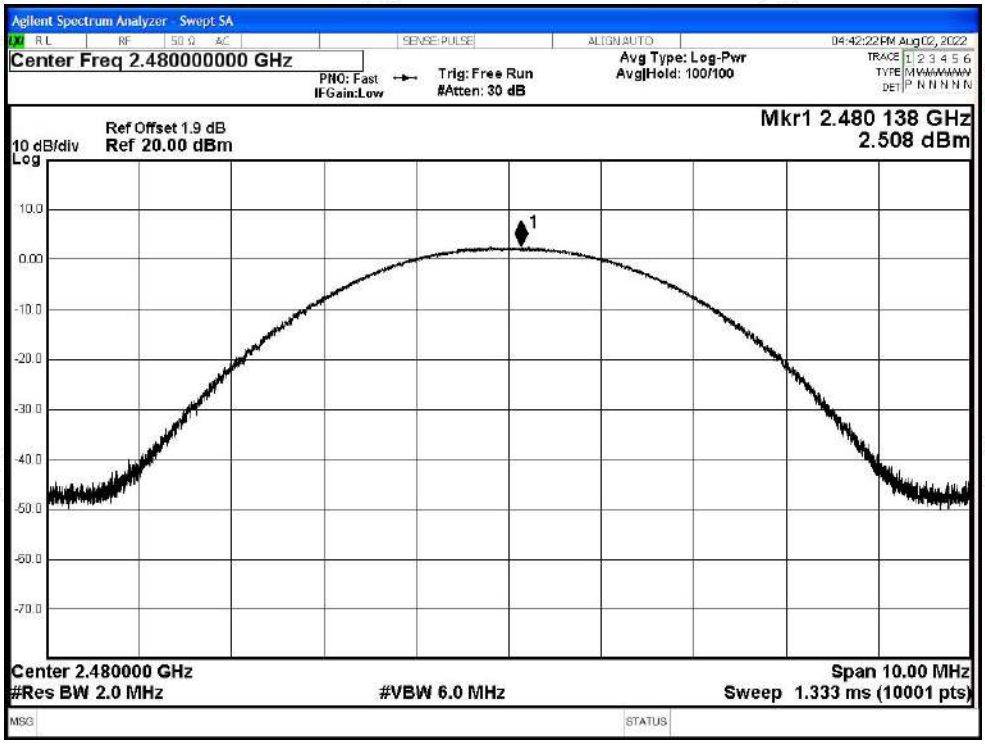
Power NVNT 2-DH5 2402MHz Ant1



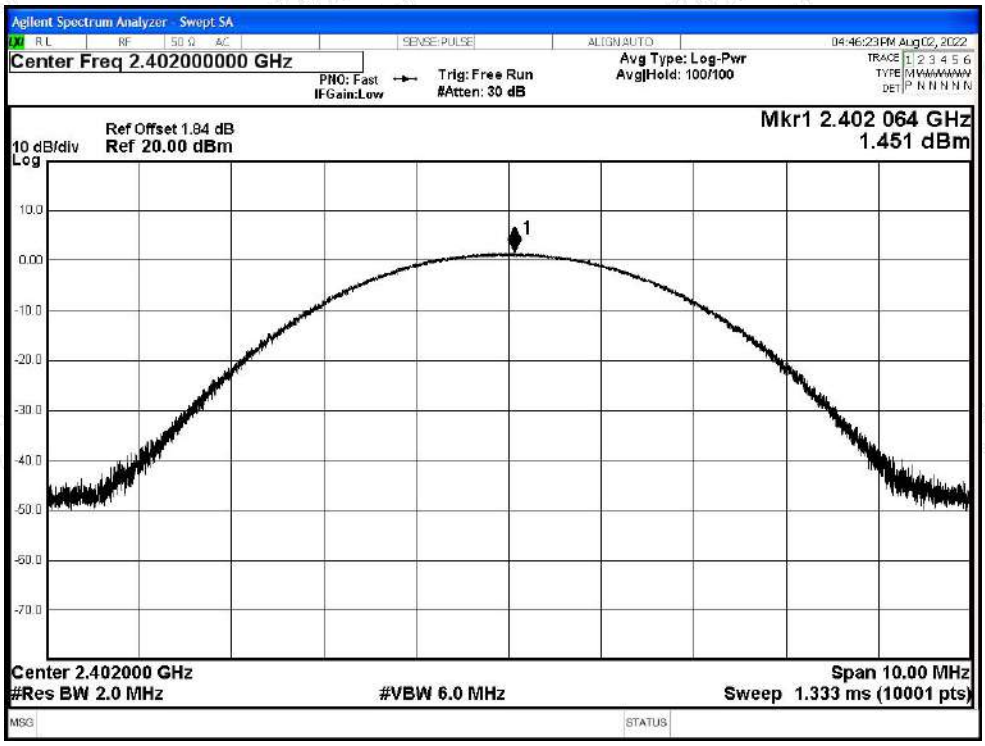
Power NVNT 2-DH5 2441MHz Ant1



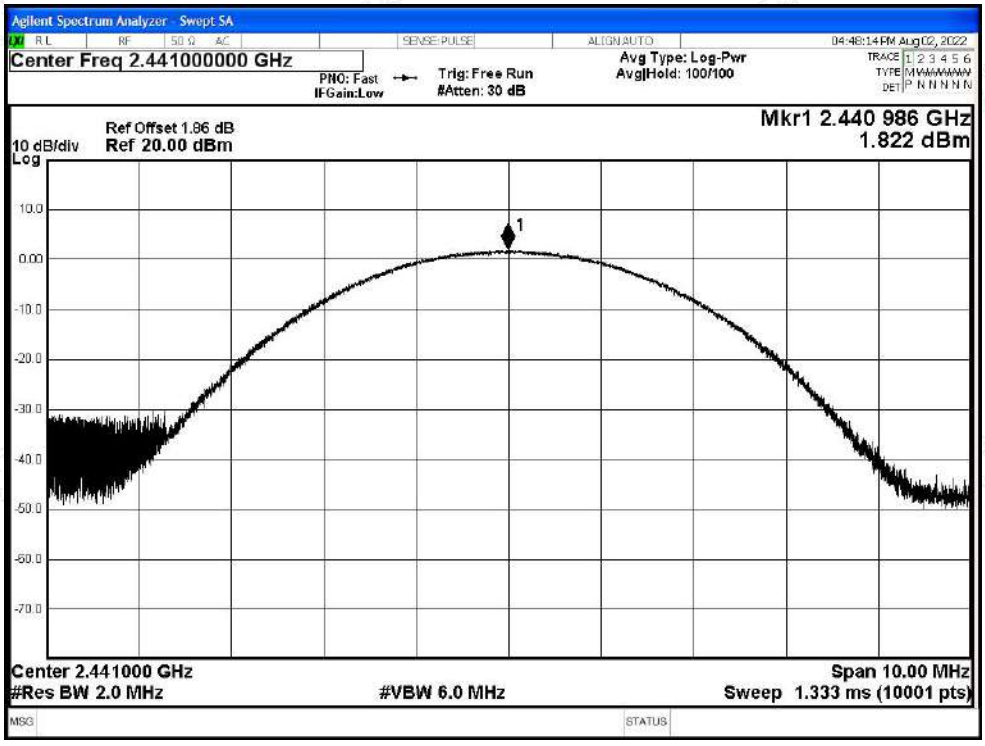
Power NVNT 2-DH5 2480MHz Ant1



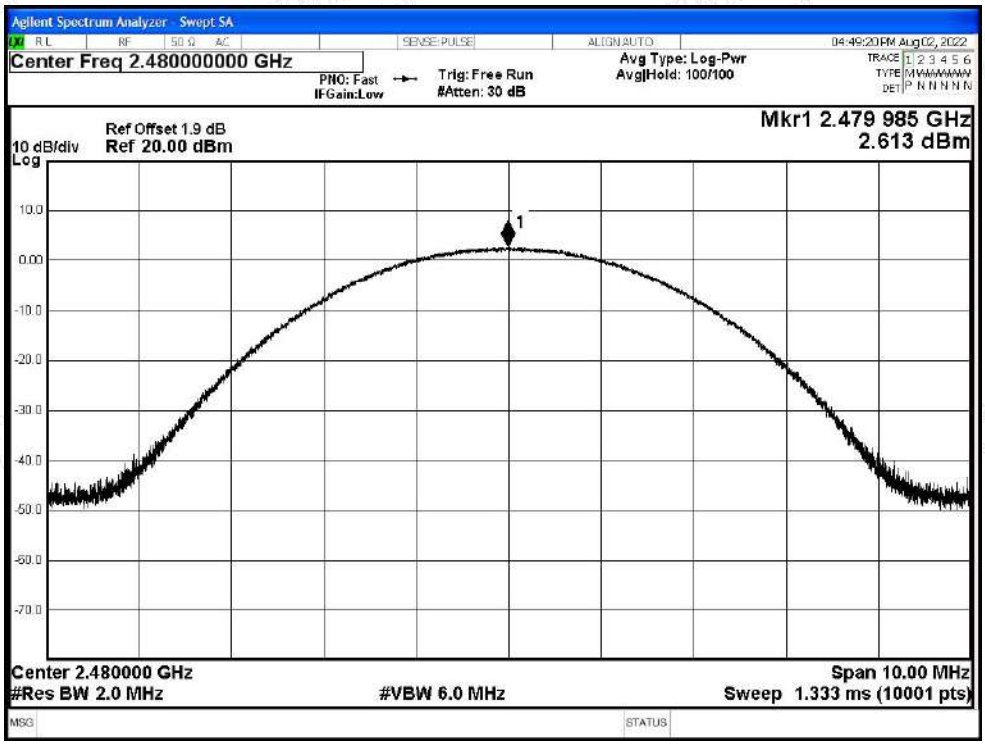
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

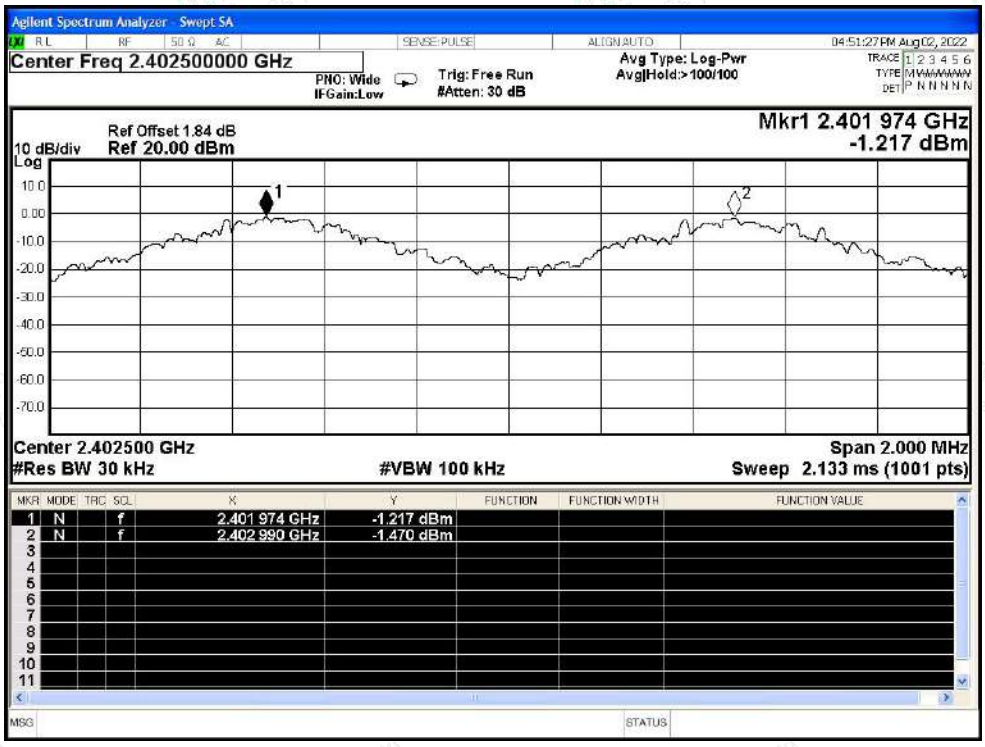


A.3 Carrier Frequencies Separation

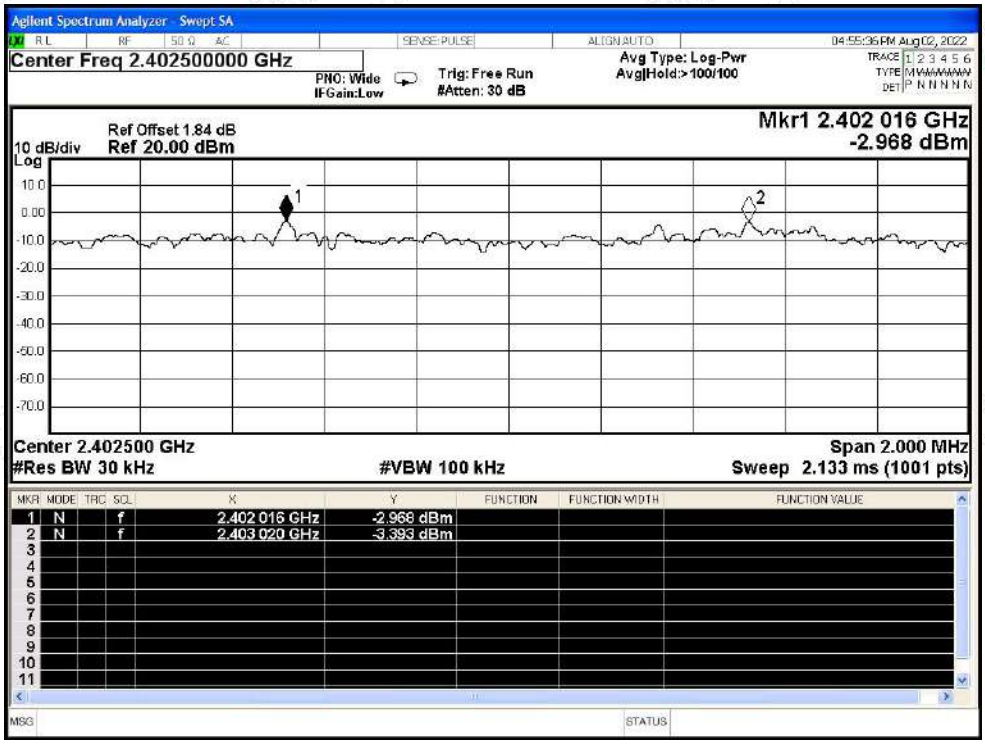
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.974	2402.99	1.016	0.675	Pass
NVNT	2-DH5	Ant1	2402.016	2403.02	1.004	0.856	Pass
NVNT	3-DH5	Ant1	2402.16	2403.162	1.002	0.861	Pass

Test Graphs

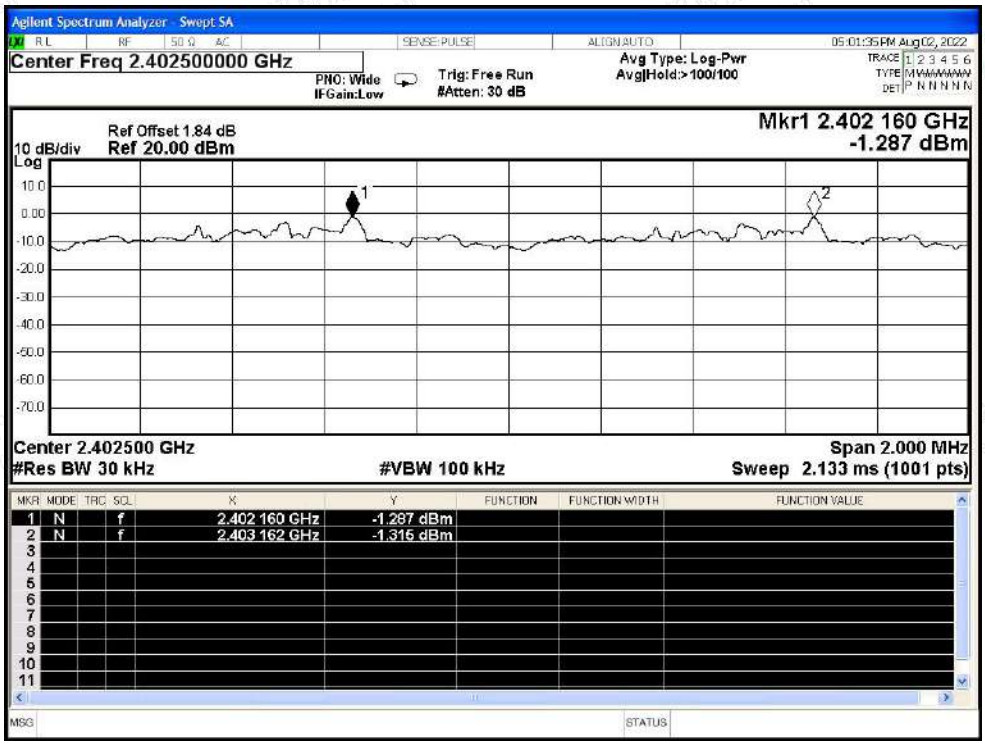
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

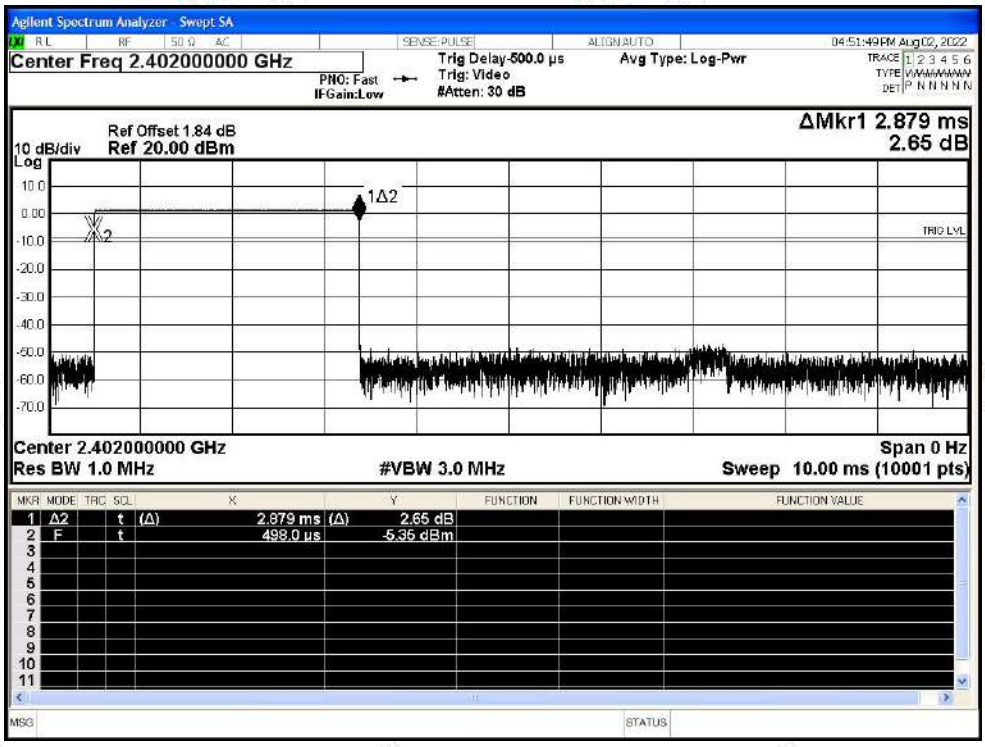


A.4 Dwell Time

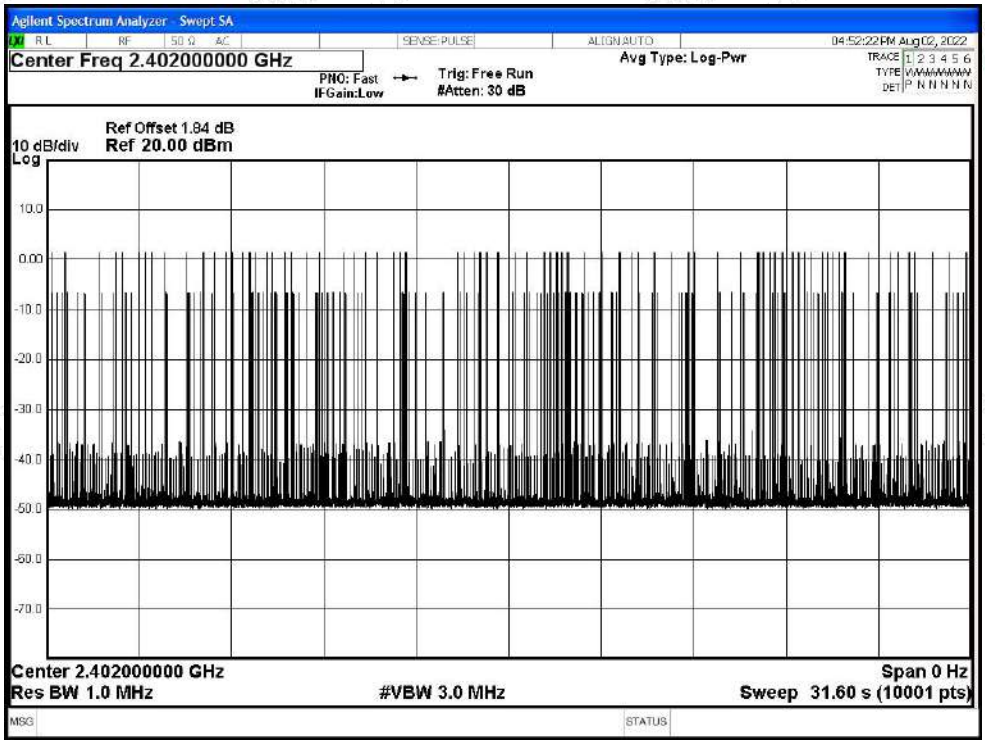
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.879	290.779	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	322.56	112	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.885	317.35	110	31600	400	Pass

Test Graphs

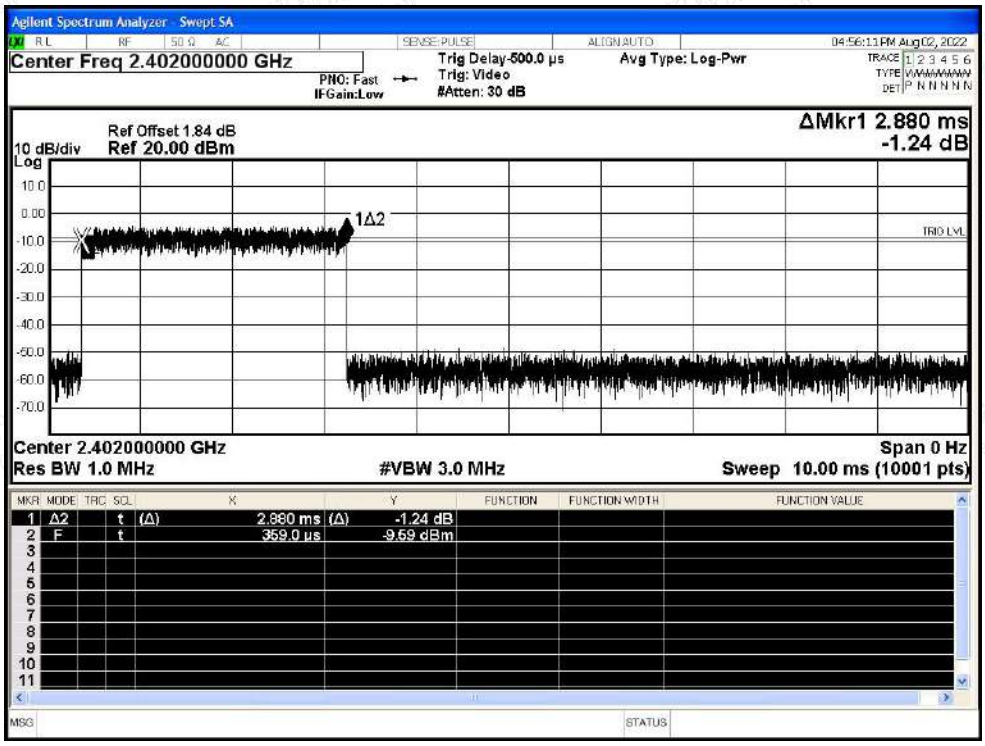
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



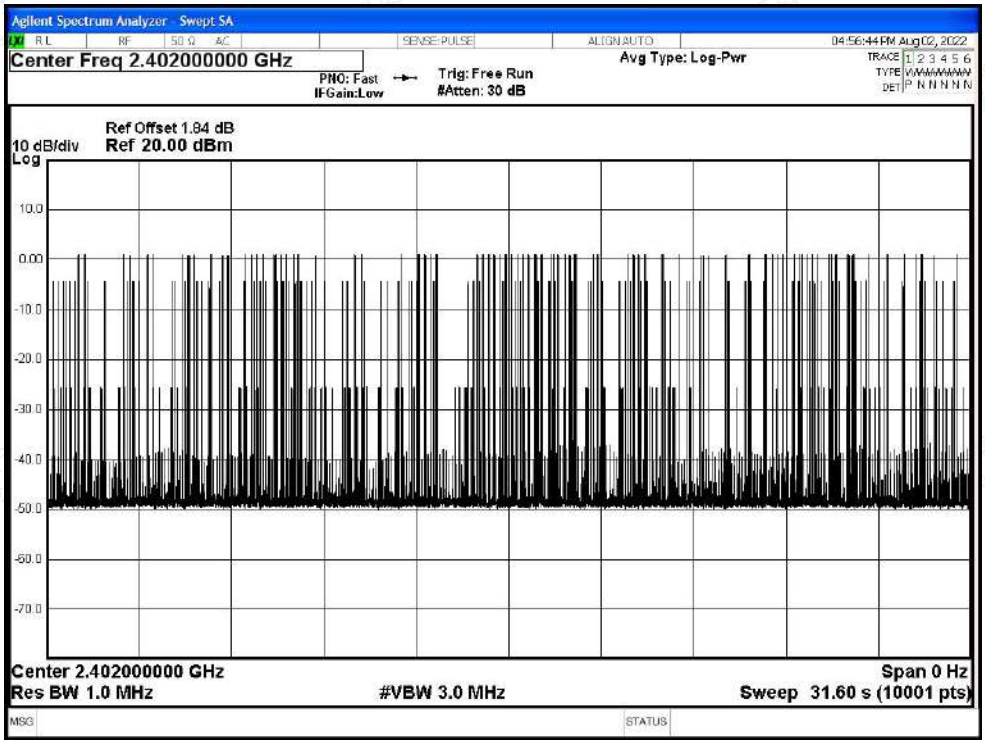
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



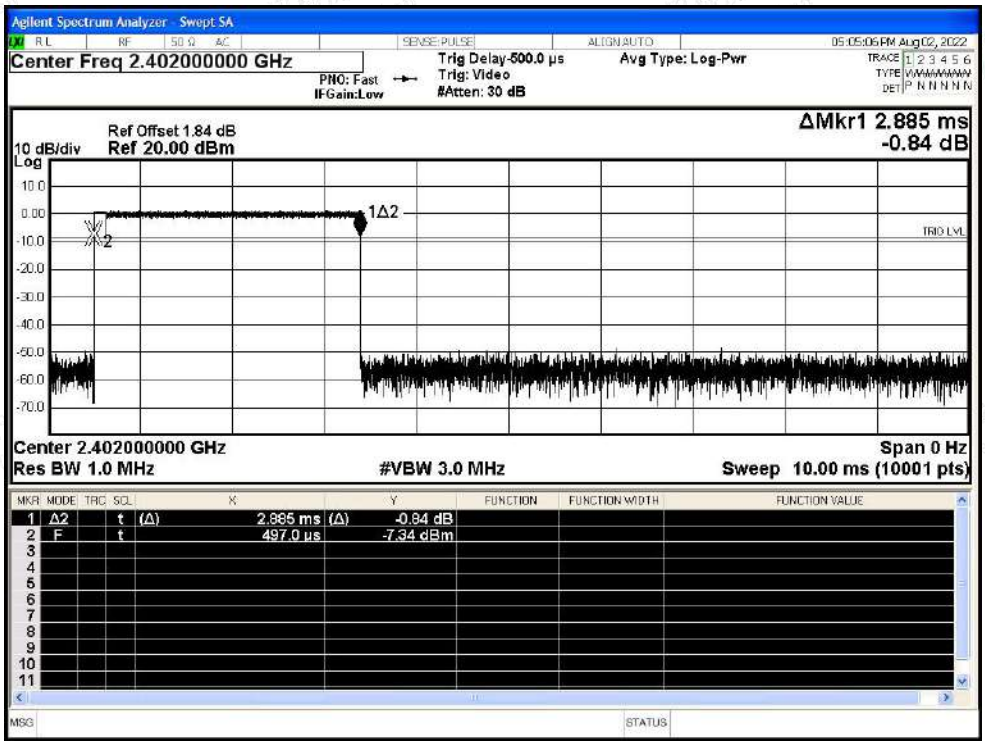
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



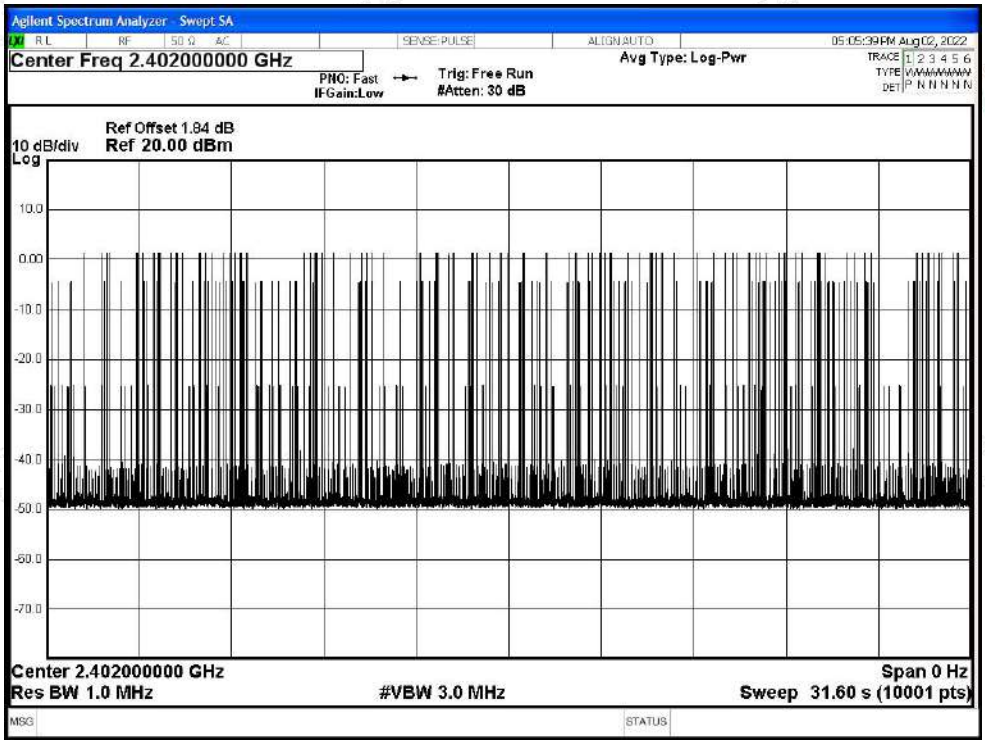
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

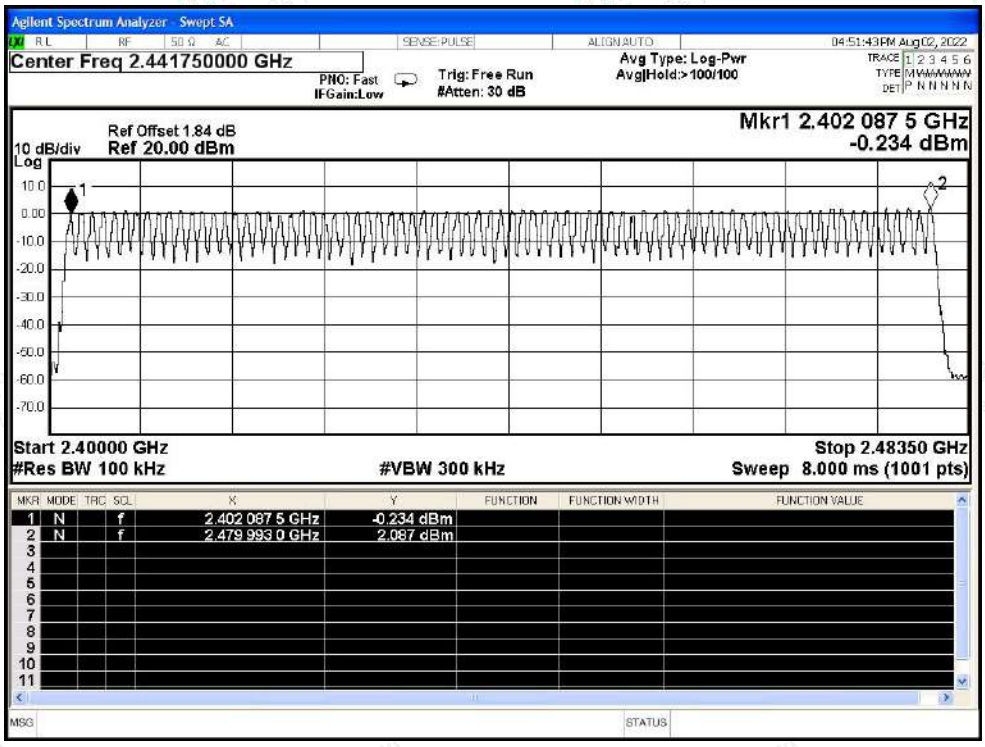


A.5 Number of Hopping Channel

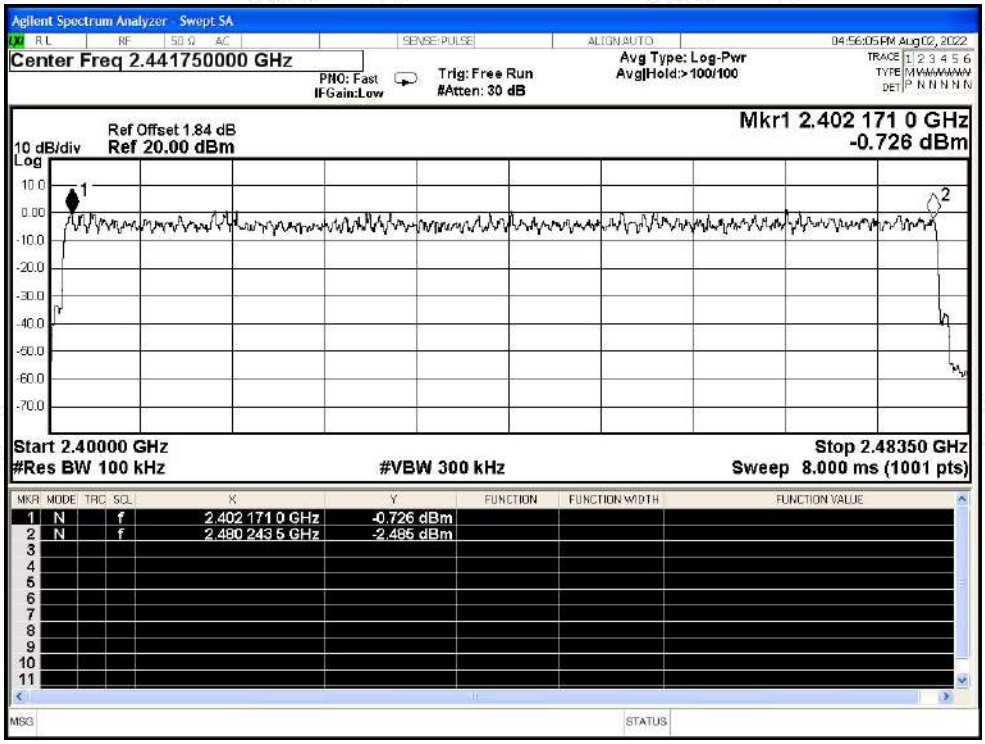
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

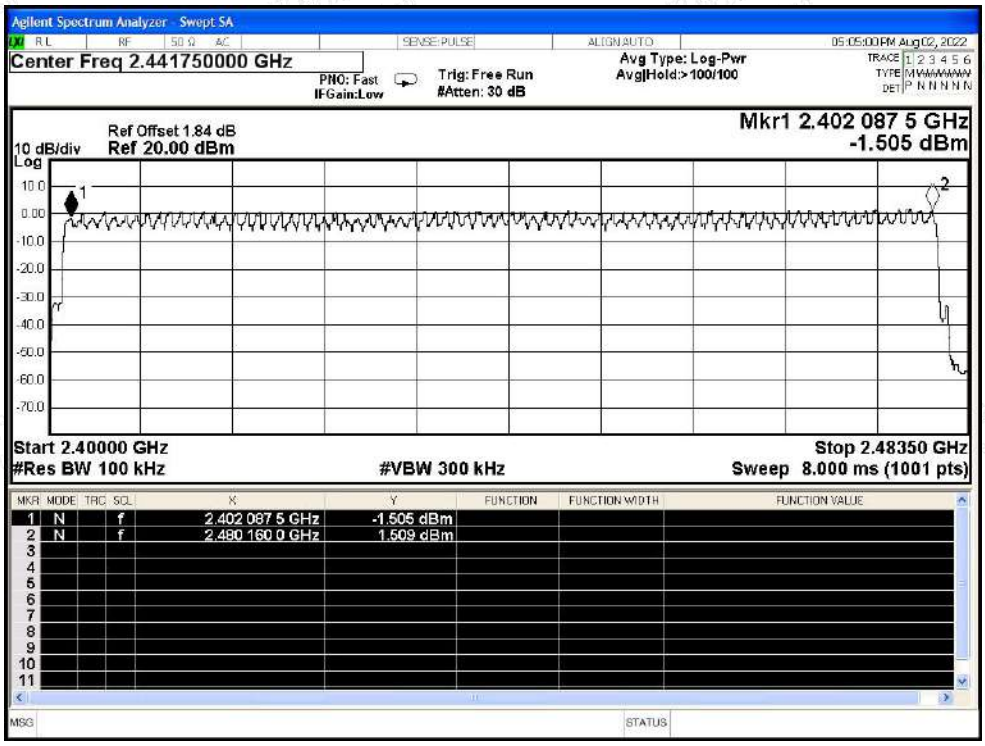
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

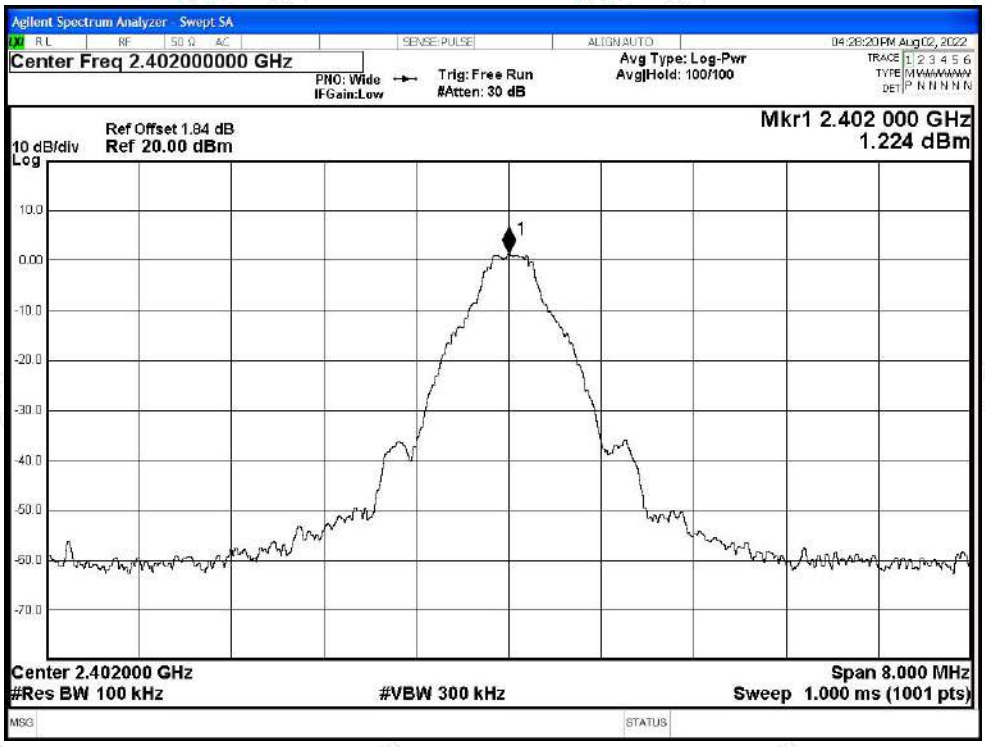


A.6 Band Edge

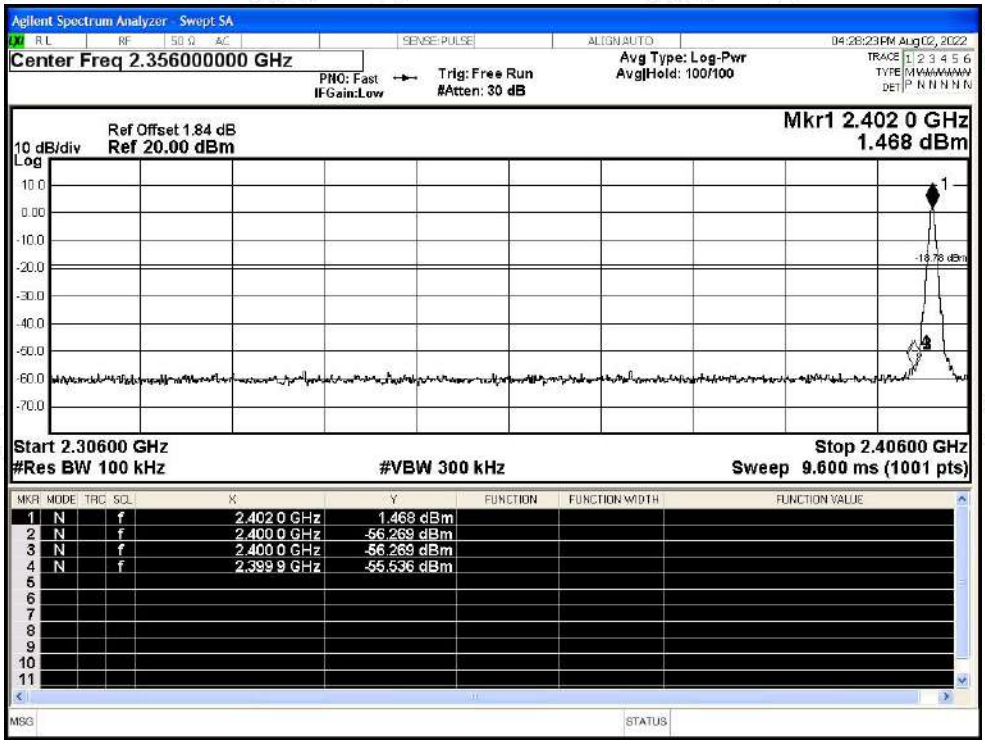
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.76	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.77	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.35	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.75	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.5	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.91	-20	Pass

Test Graphs

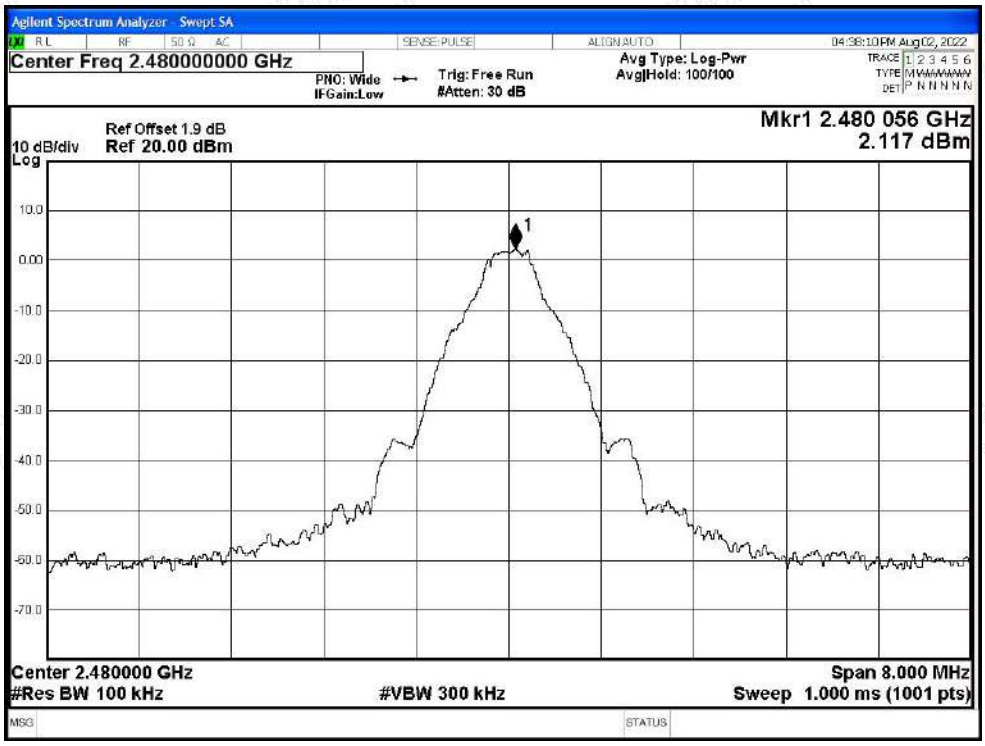
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



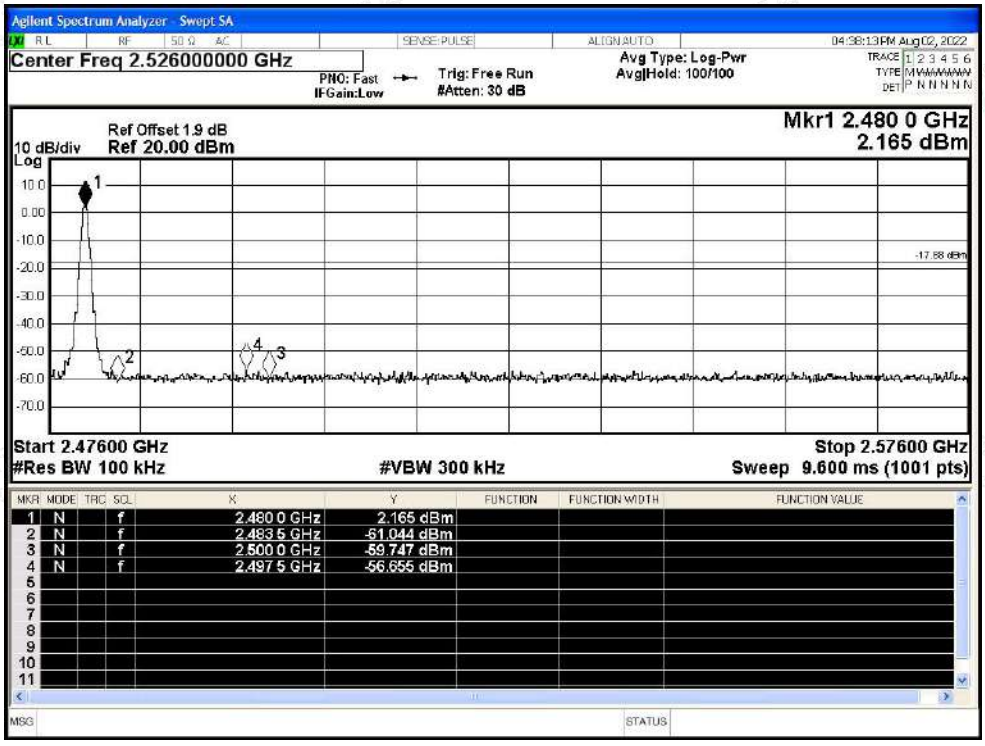
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



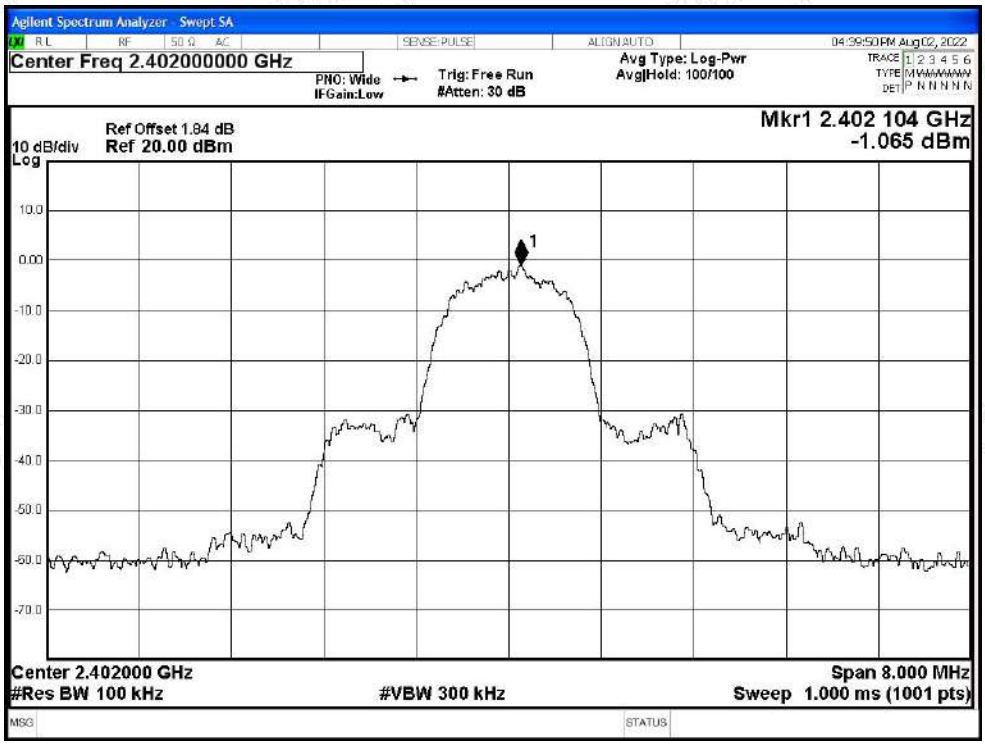
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



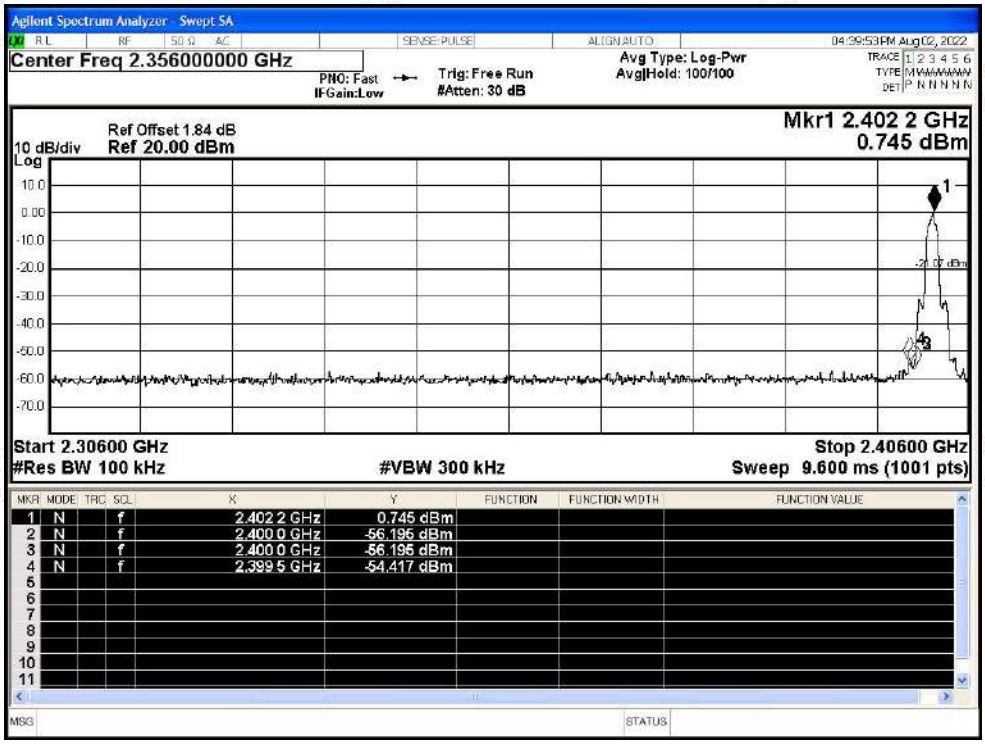
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



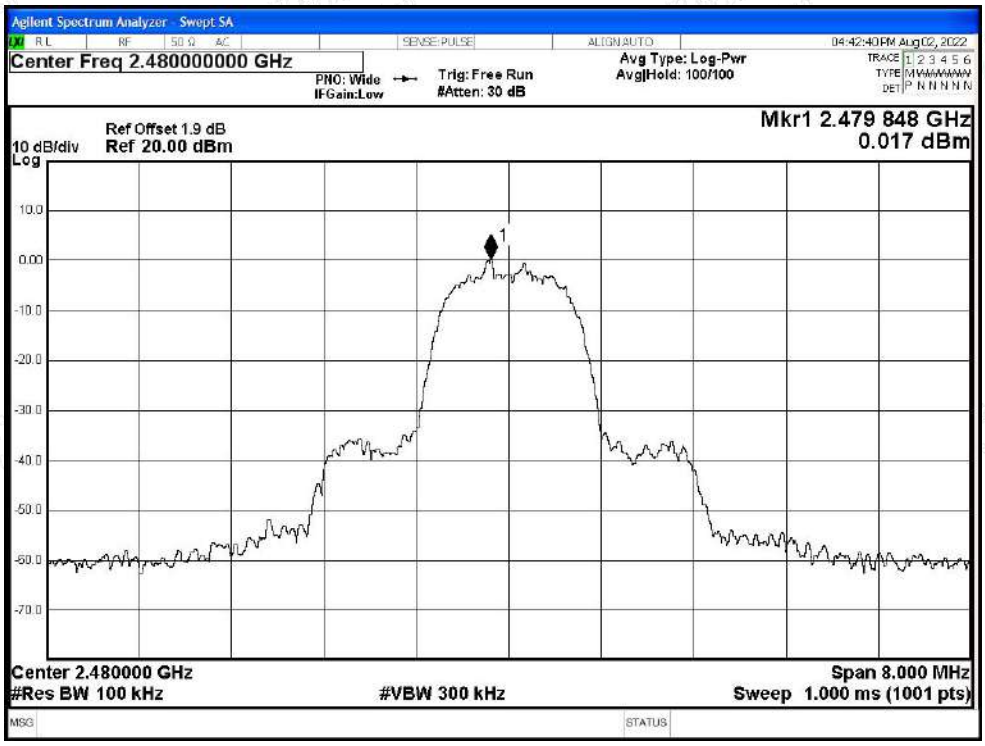
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



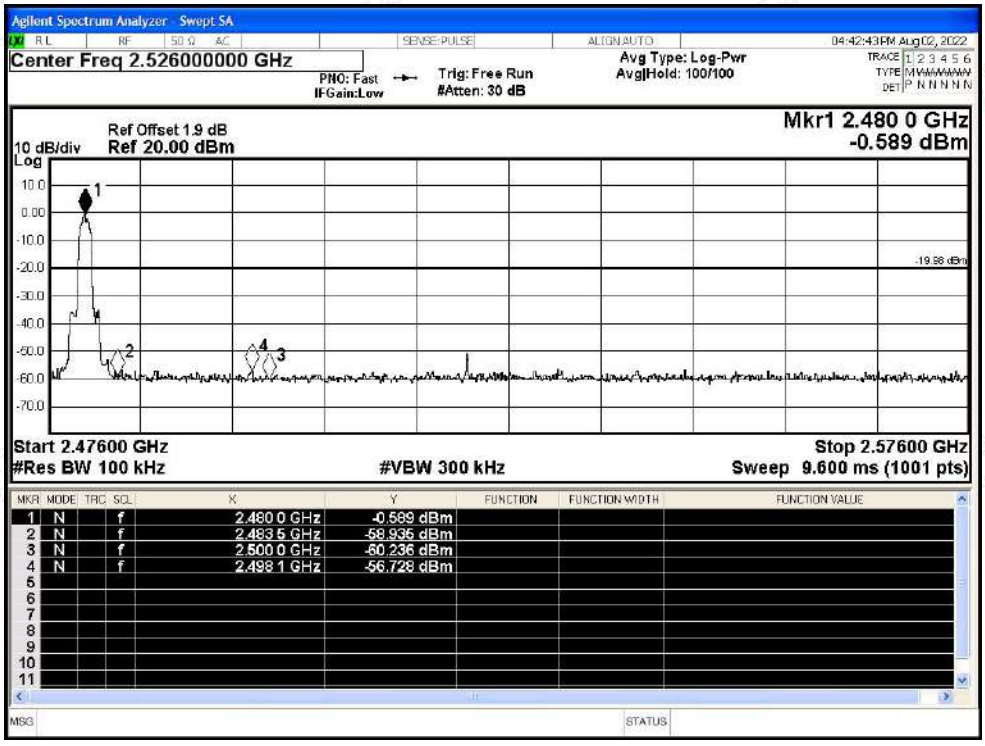
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



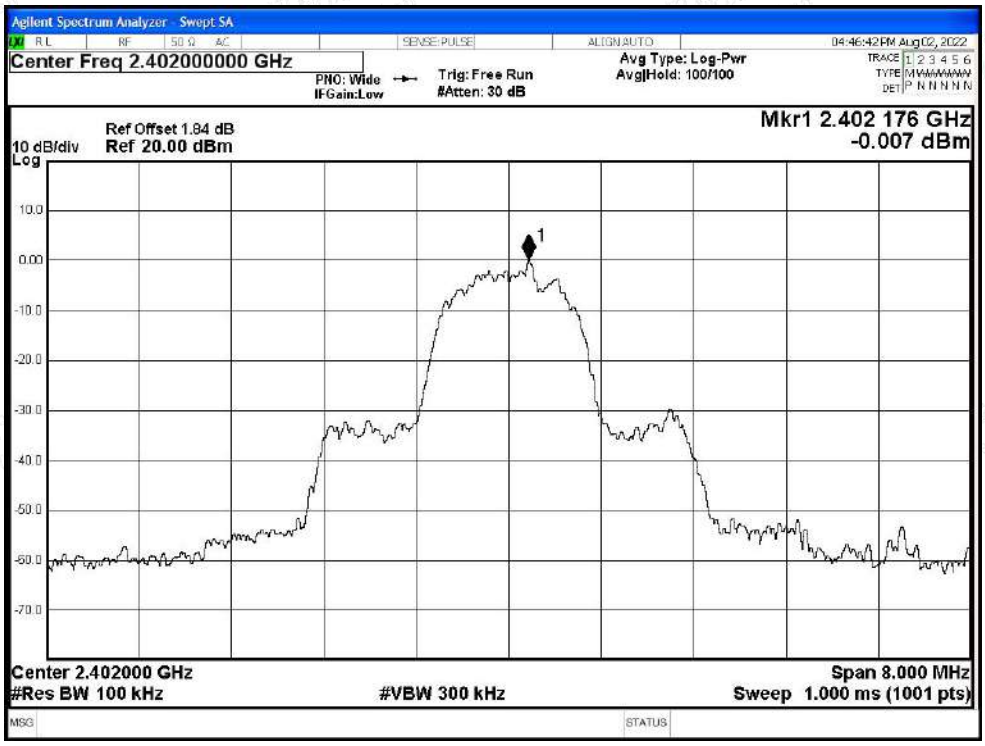
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



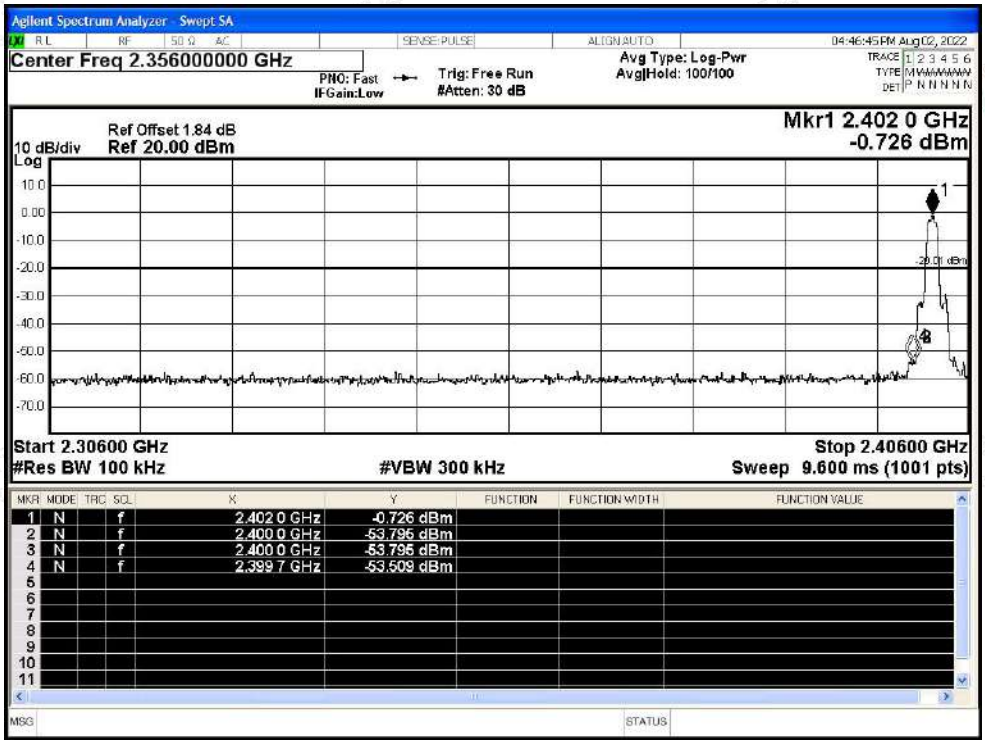
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



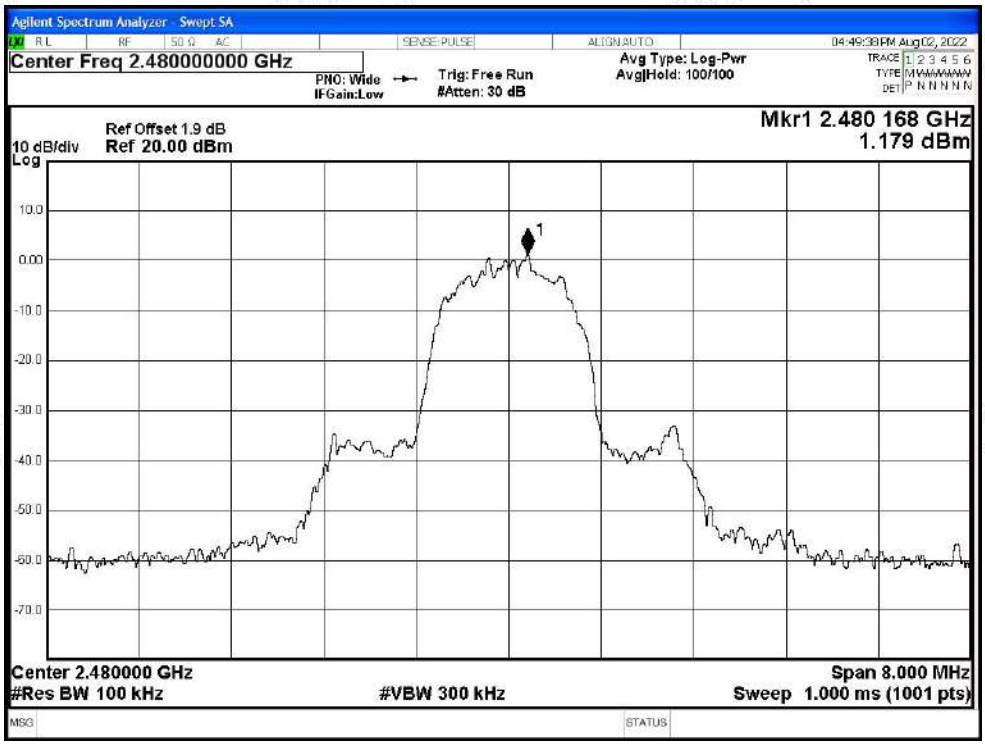
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



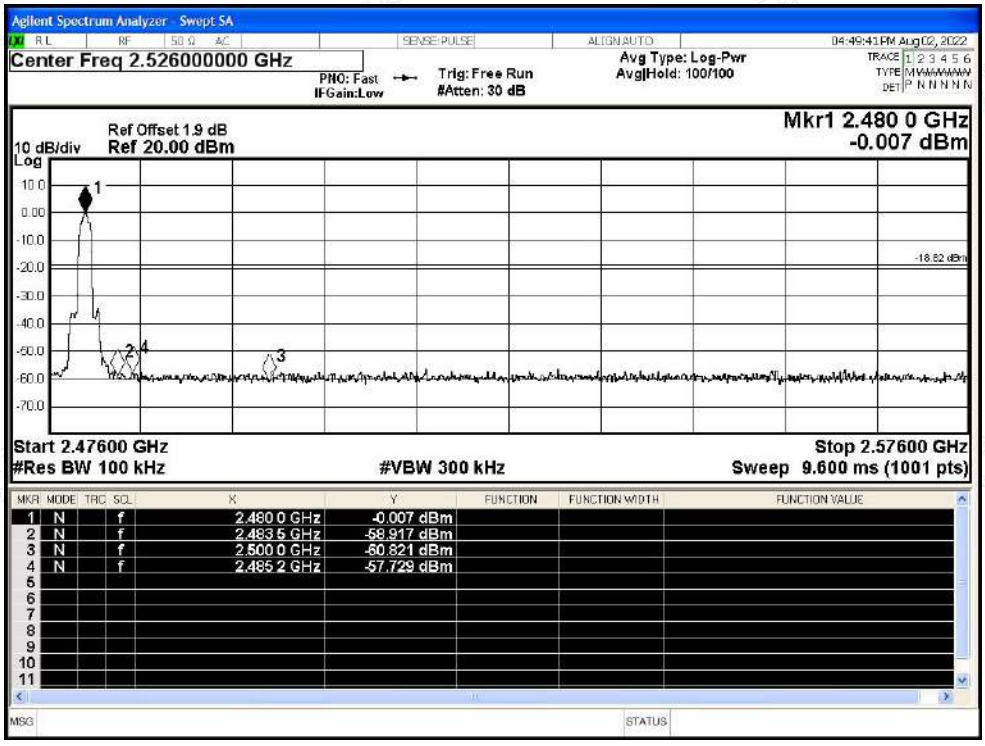
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

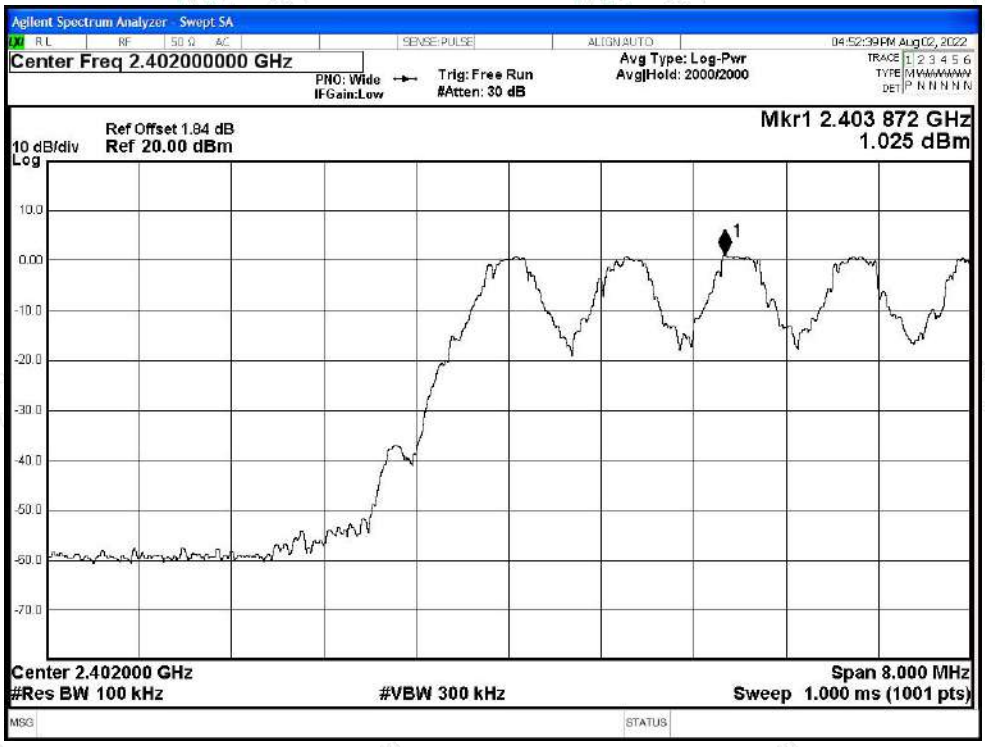


(Hopping)

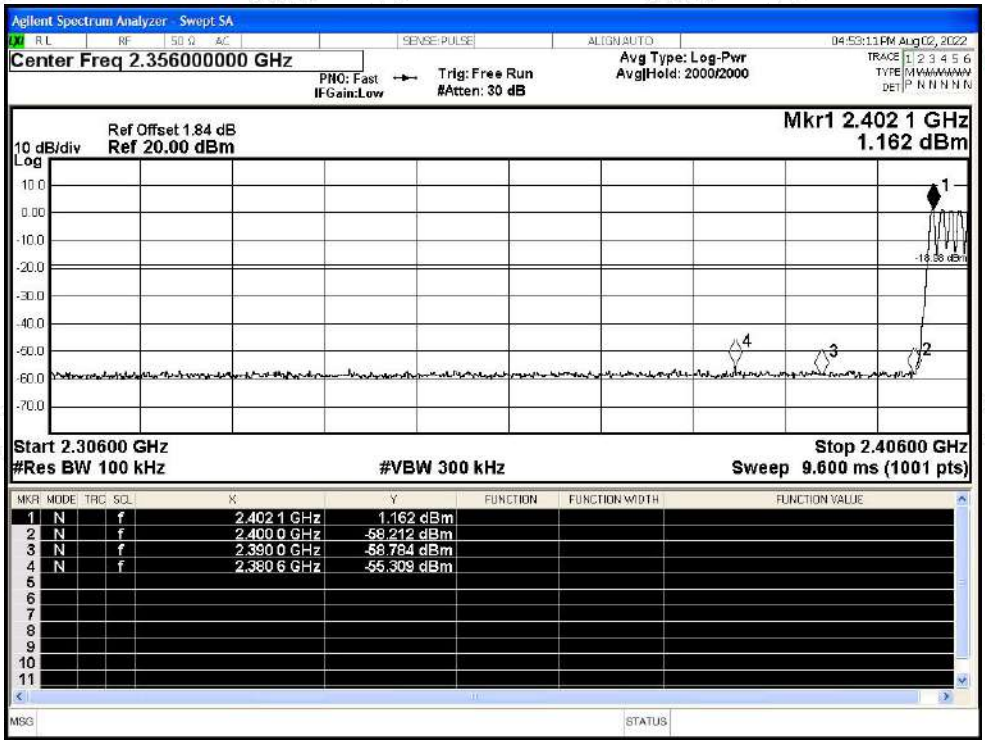
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.33	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.34	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.65	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.8	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.37	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.6	-20	Pass

Test Graphs

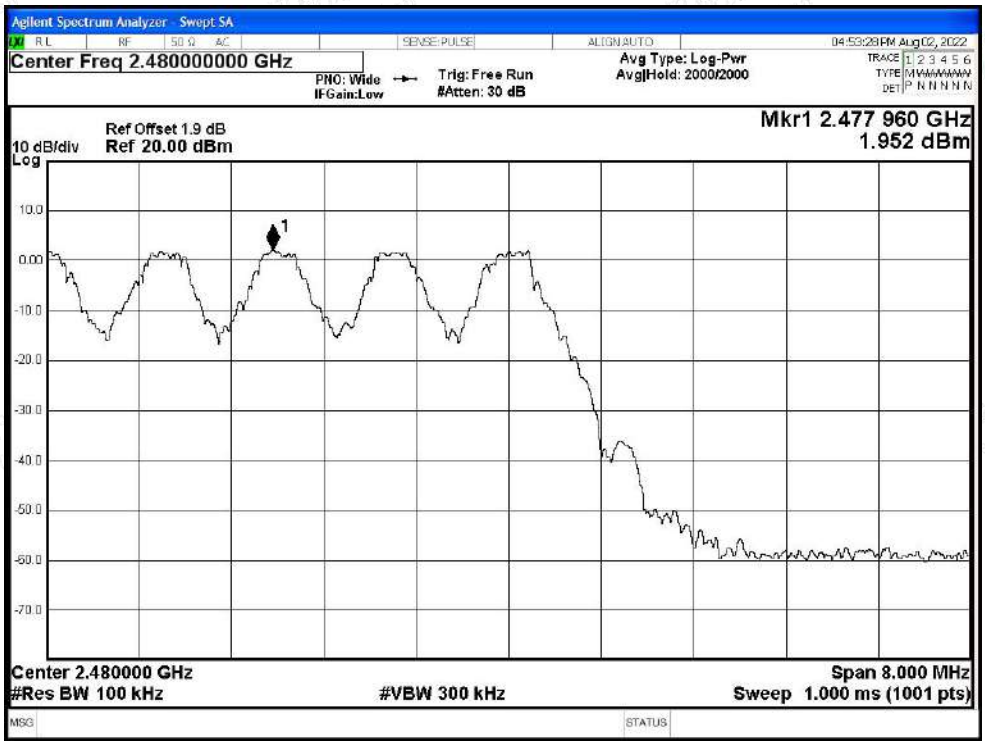
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



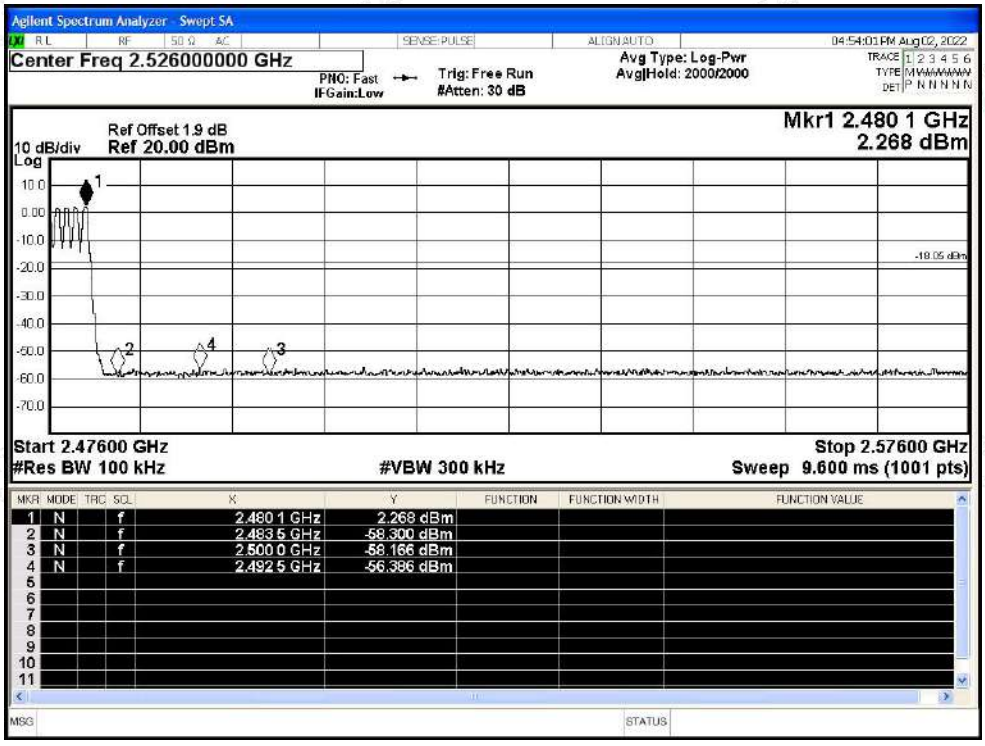
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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

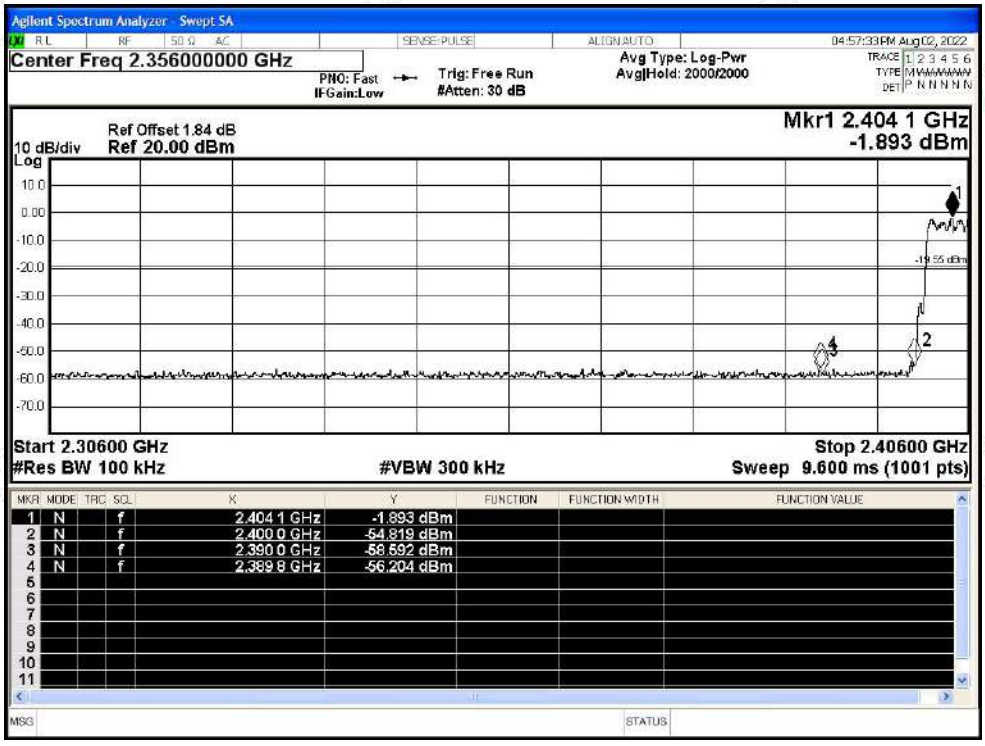


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

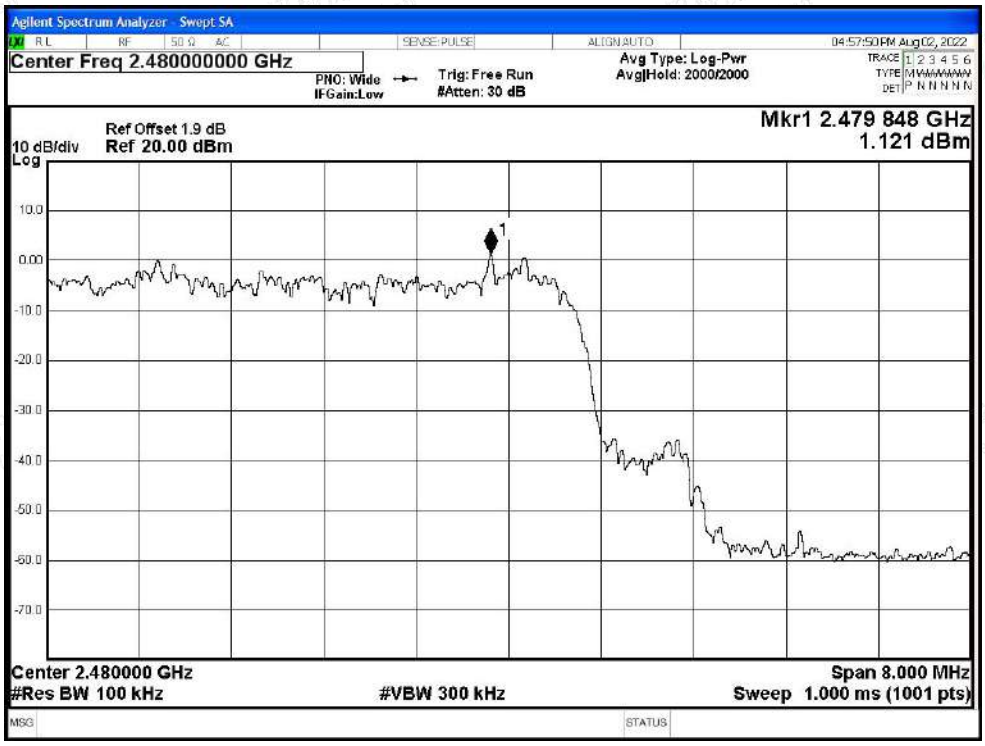


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

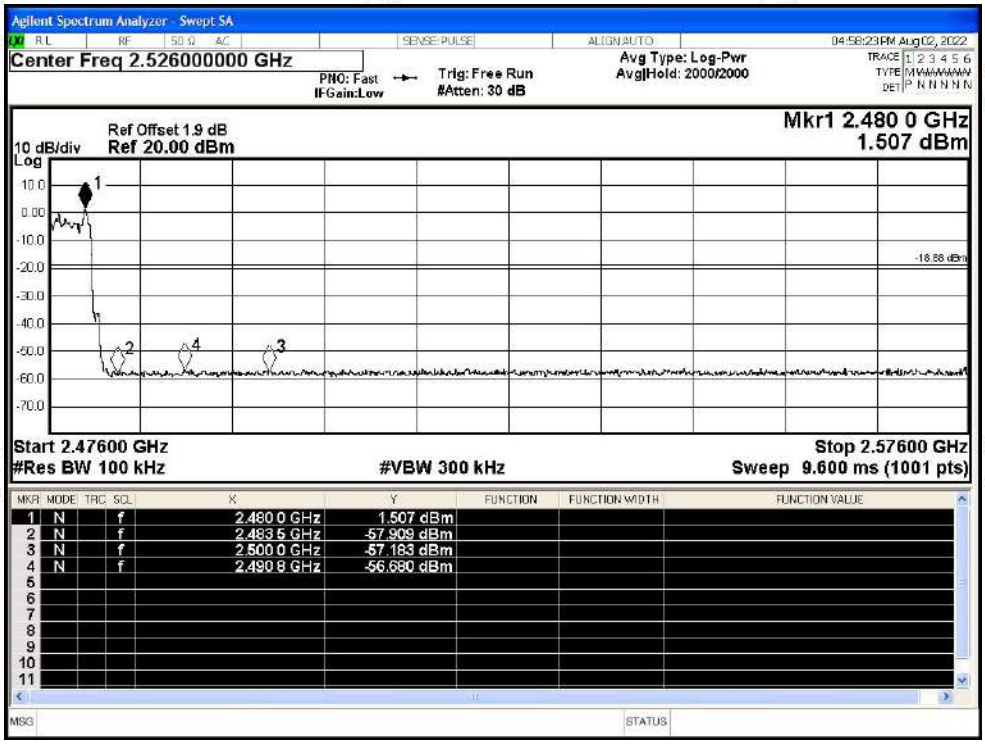
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



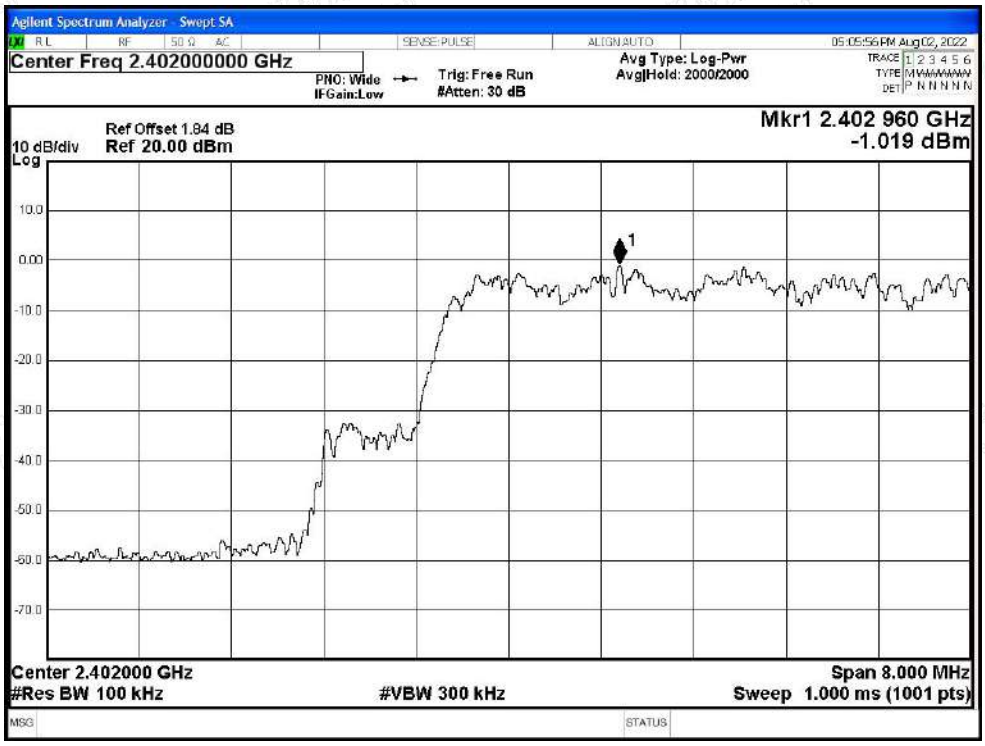
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



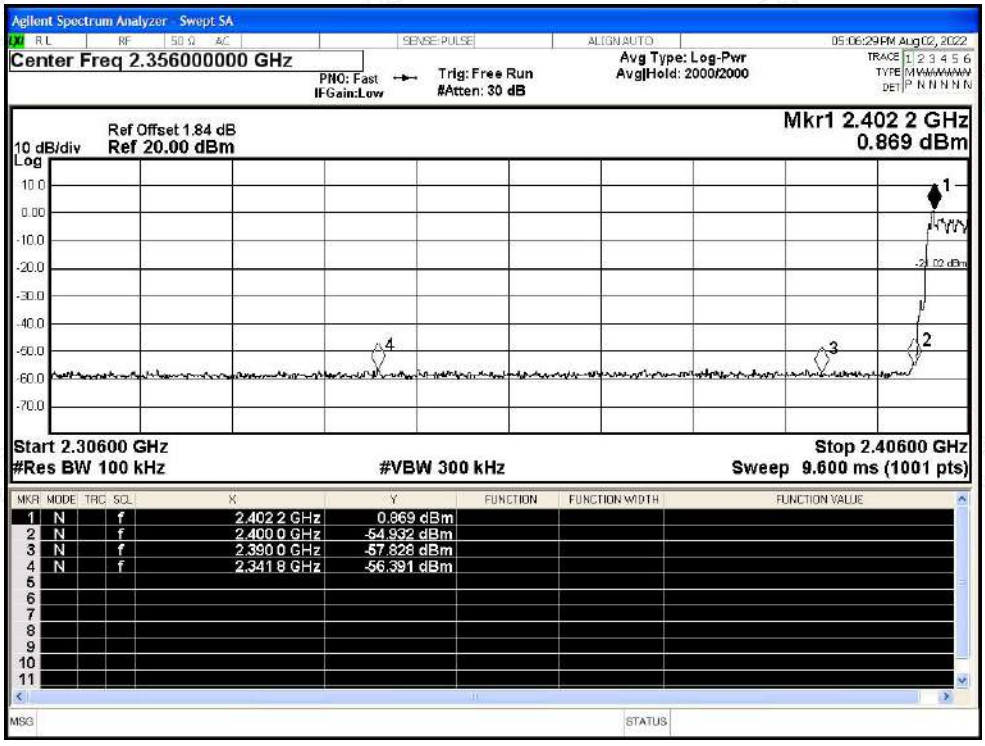
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



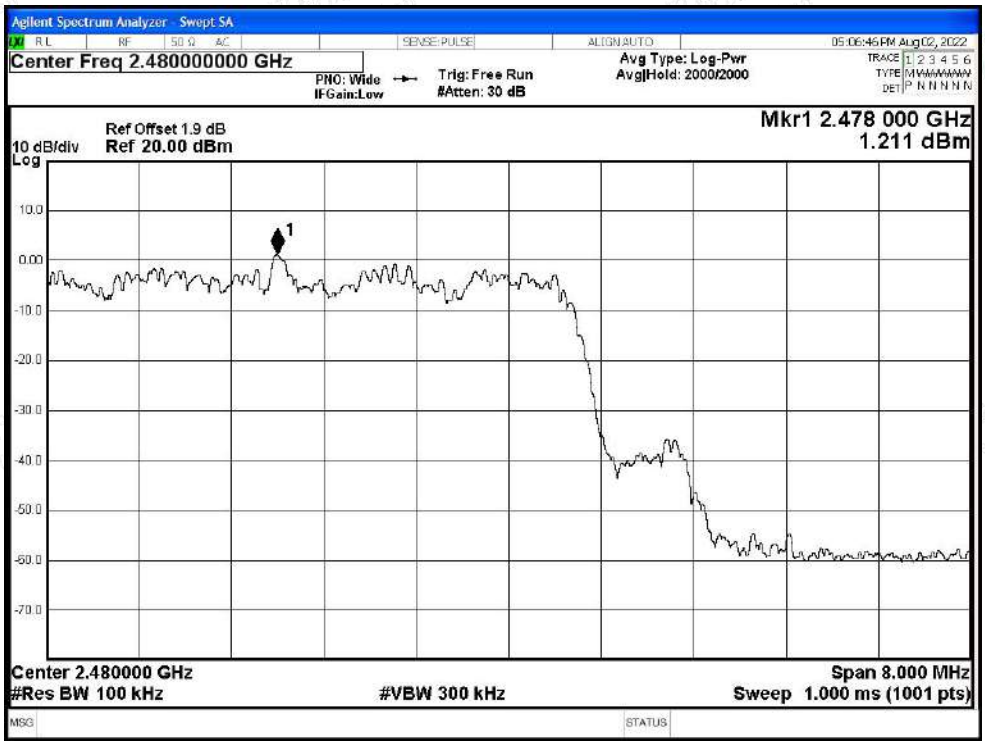
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



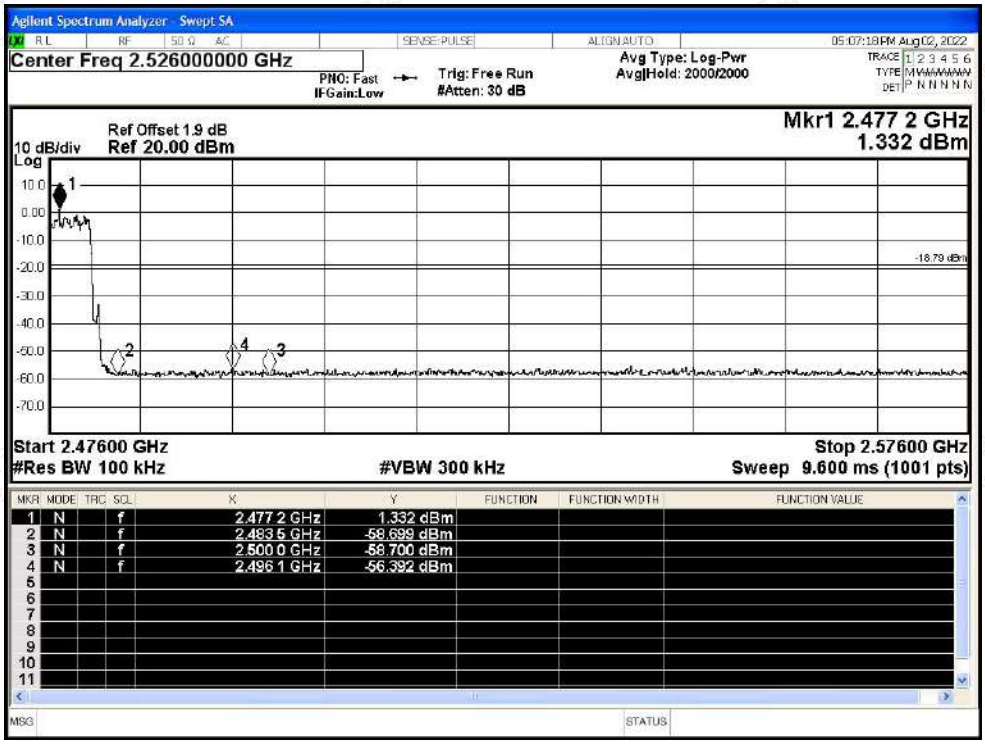
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

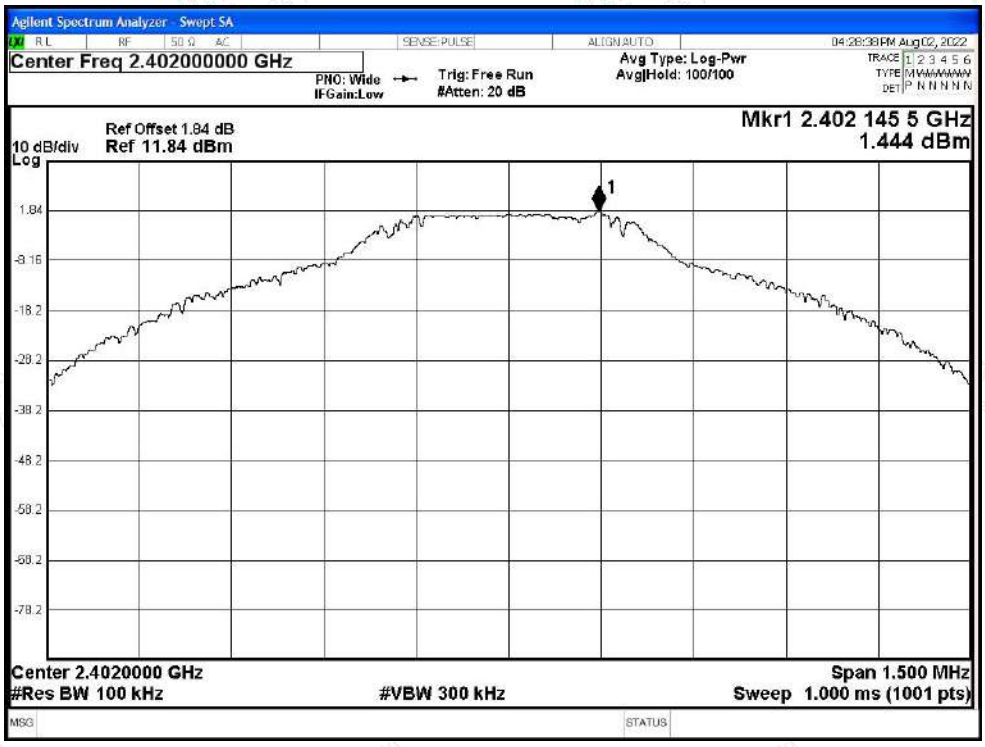


A.7 Conducted RF Spurious Emission

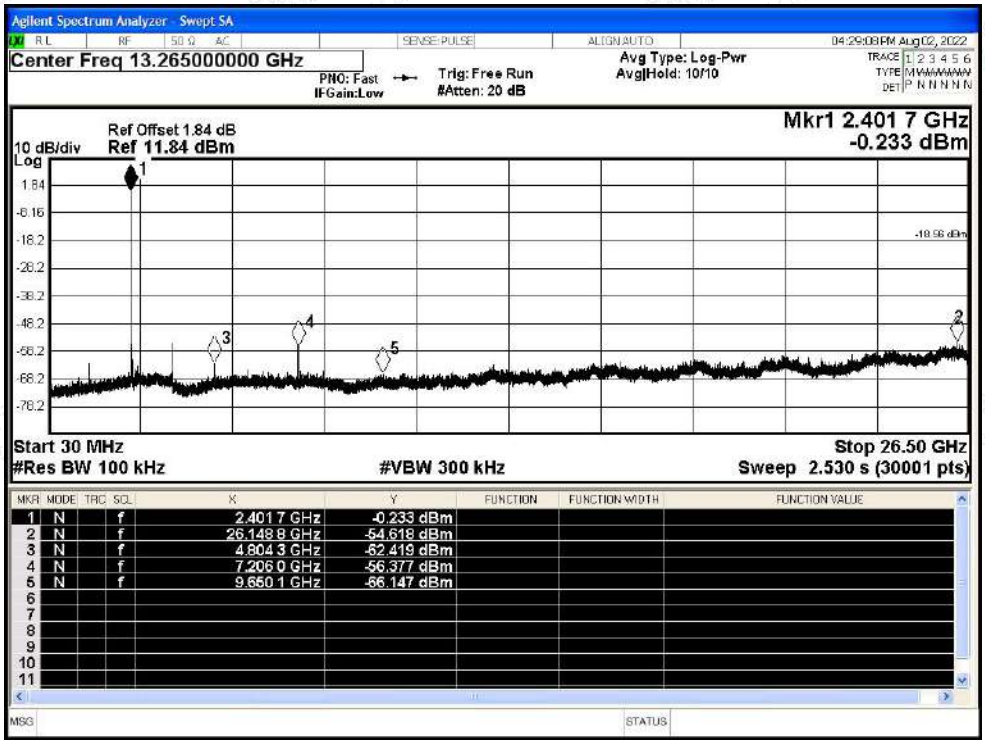
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.06	-20	Pass
NVNT	1-DH5	2441	Ant1	-41.06	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.11	-20	Pass
NVNT	2-DH5	2402	Ant1	-45.64	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.42	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.63	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.15	-20	Pass
NVNT	3-DH5	2441	Ant1	-46.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.86	-20	Pass

Test Graphs

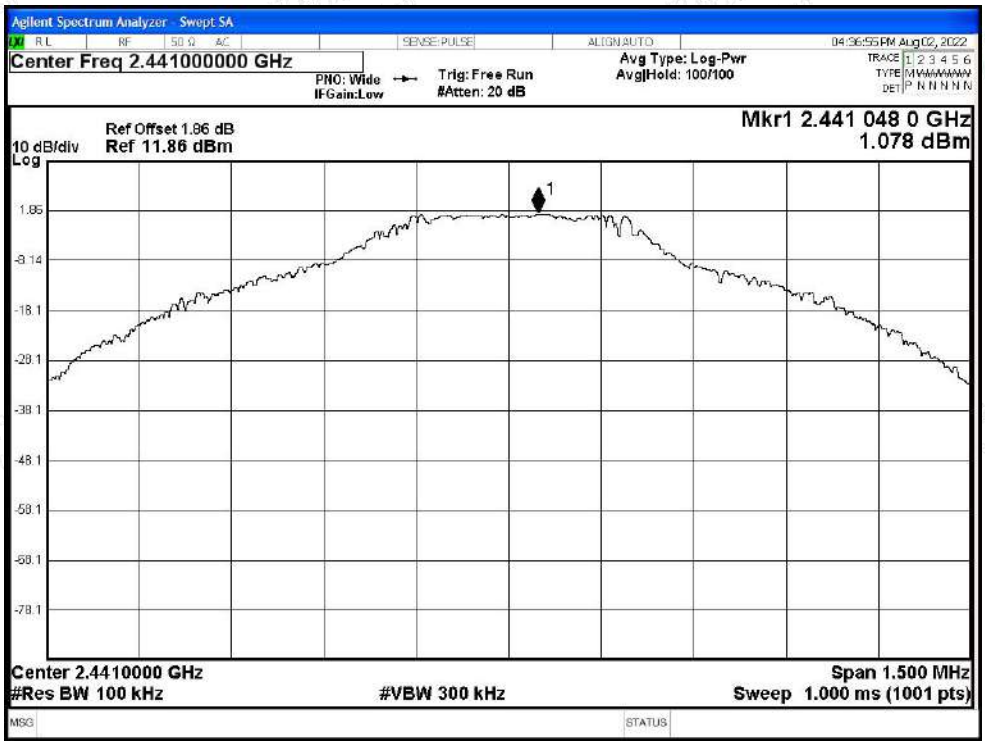
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



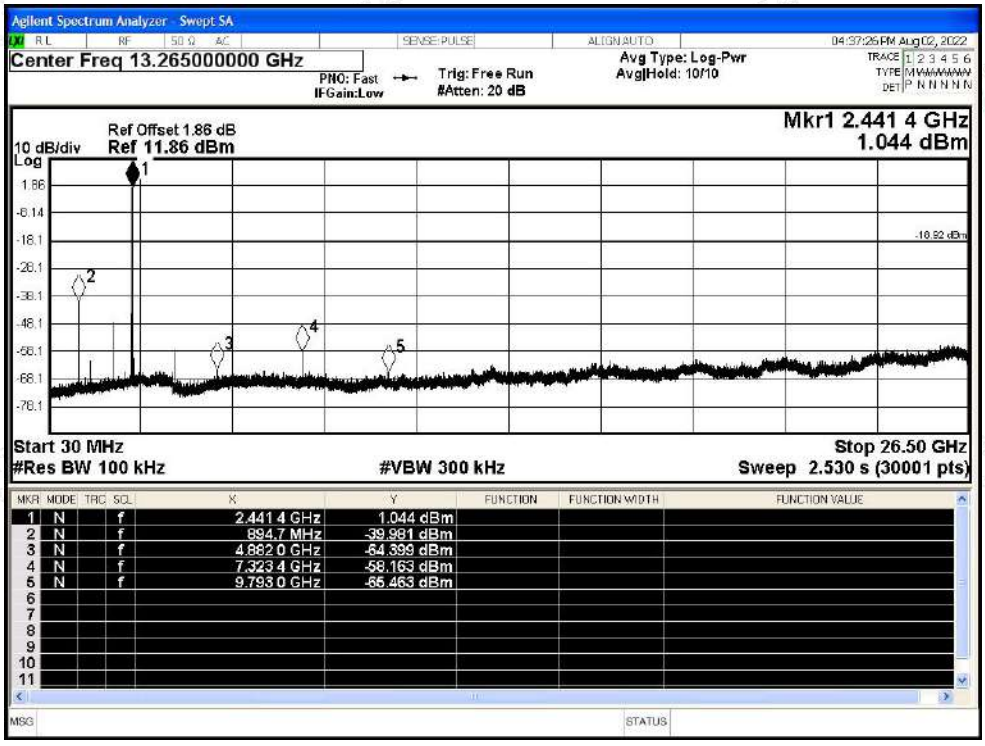
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



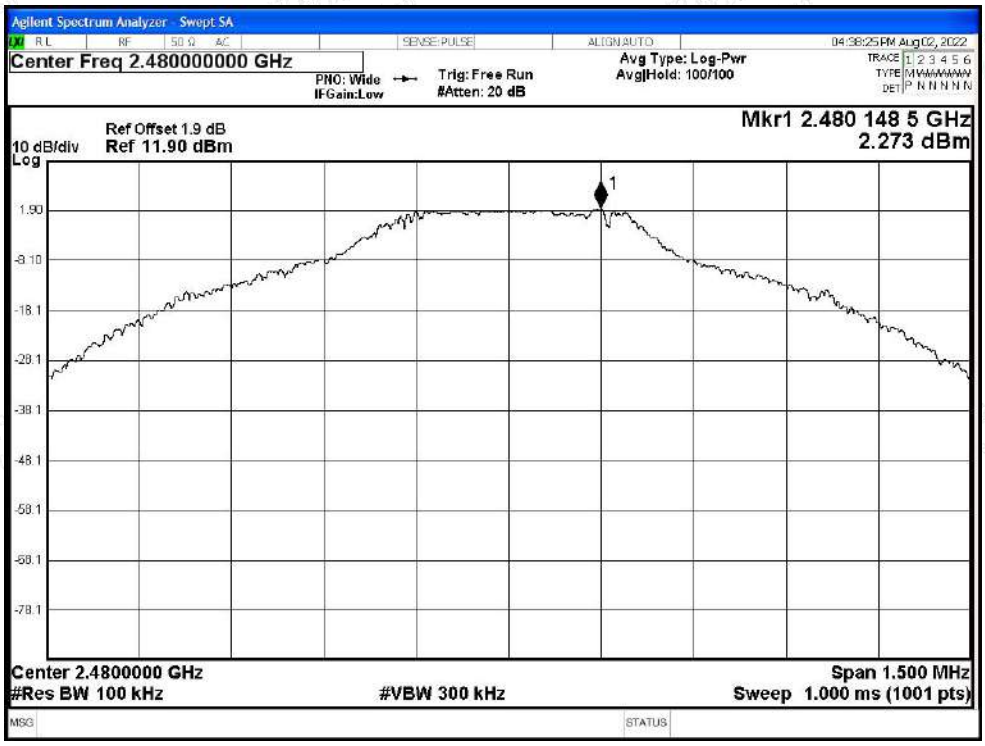
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



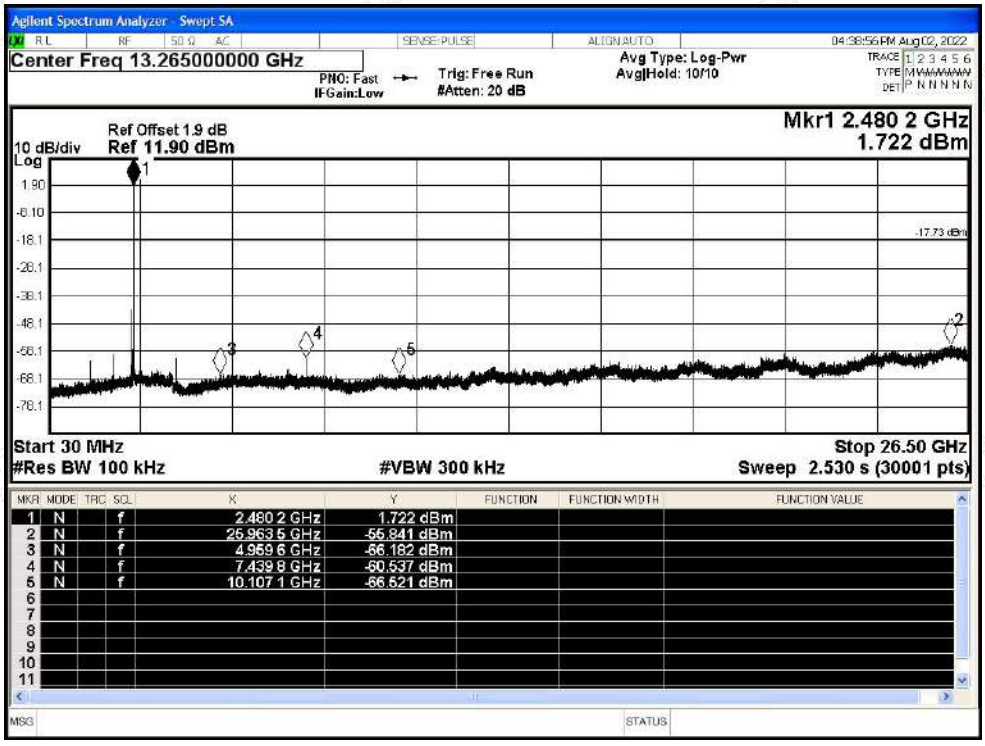
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



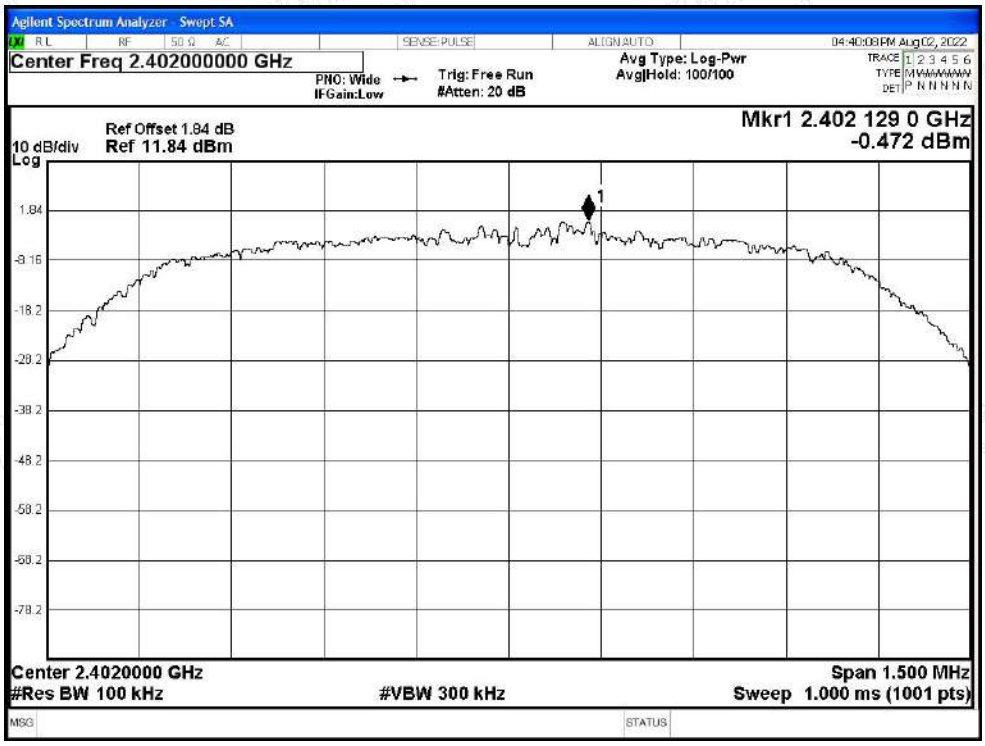
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



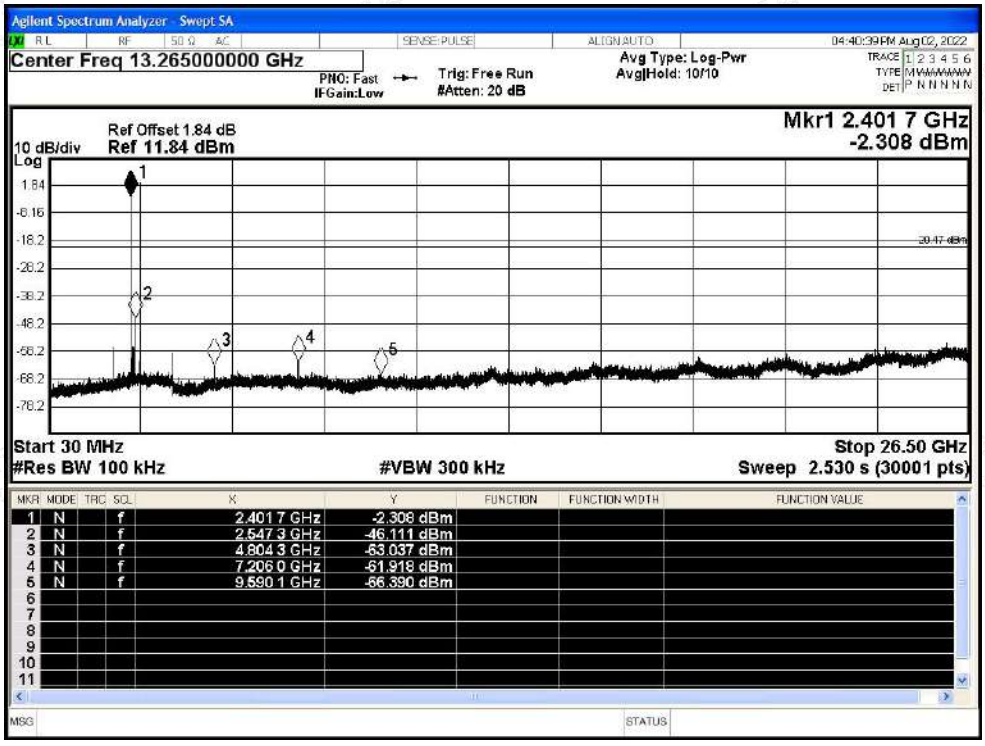
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



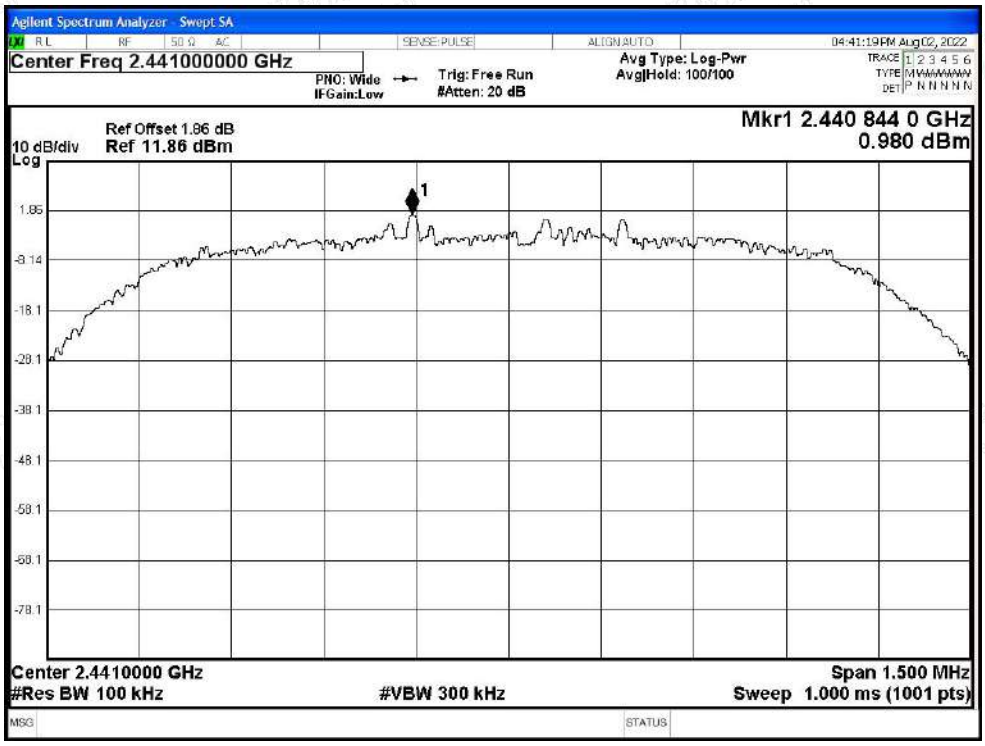
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



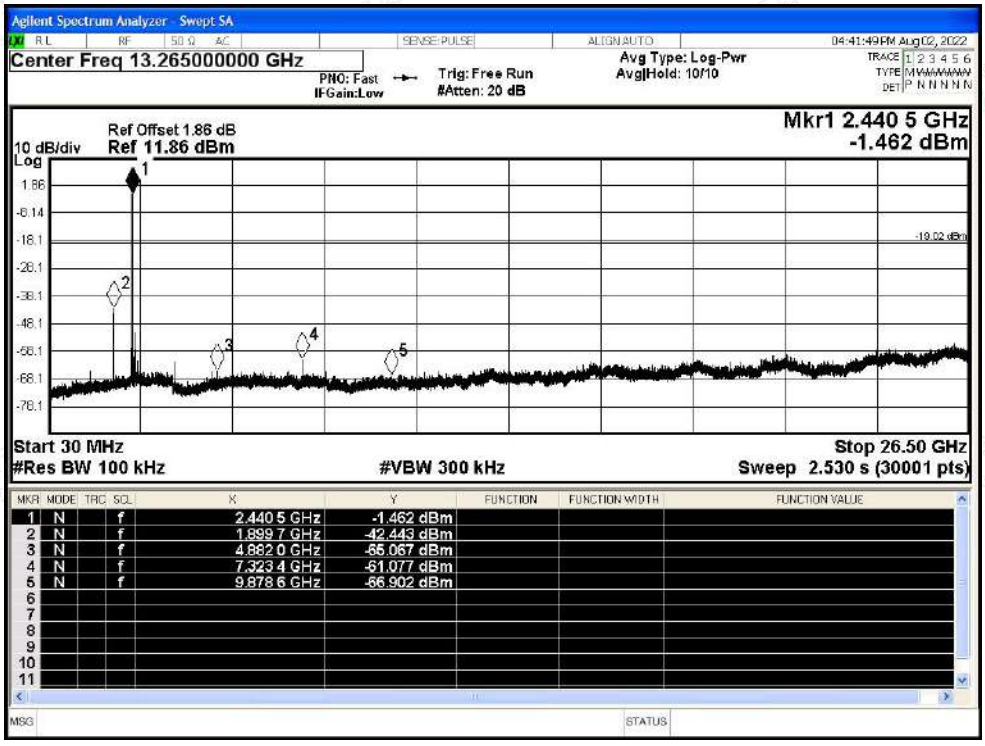
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



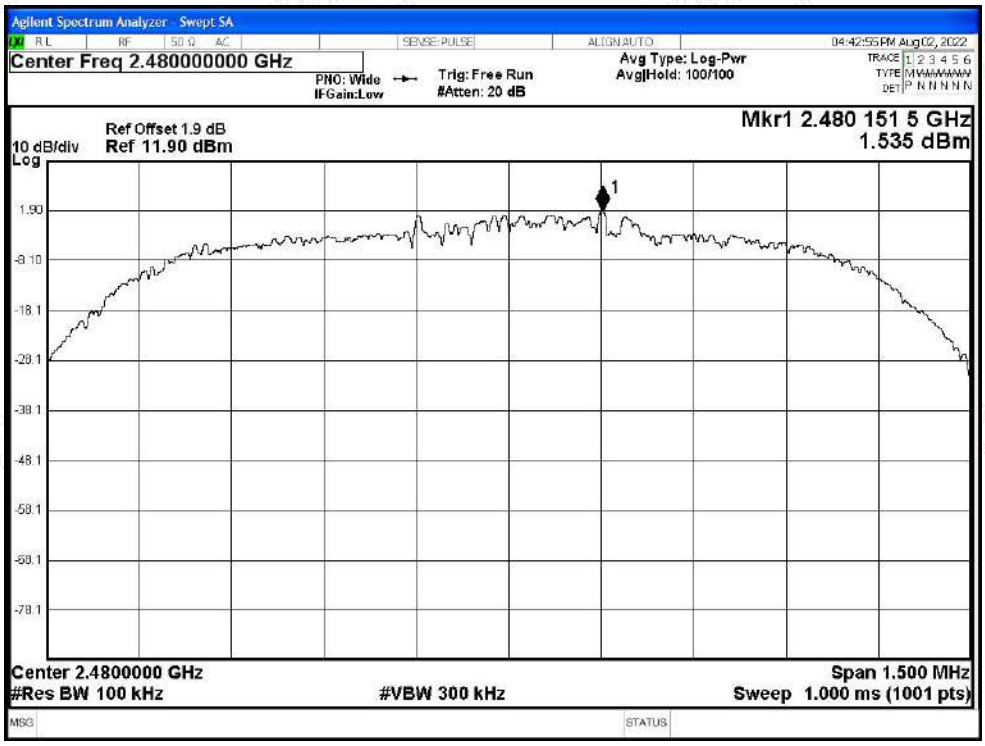
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



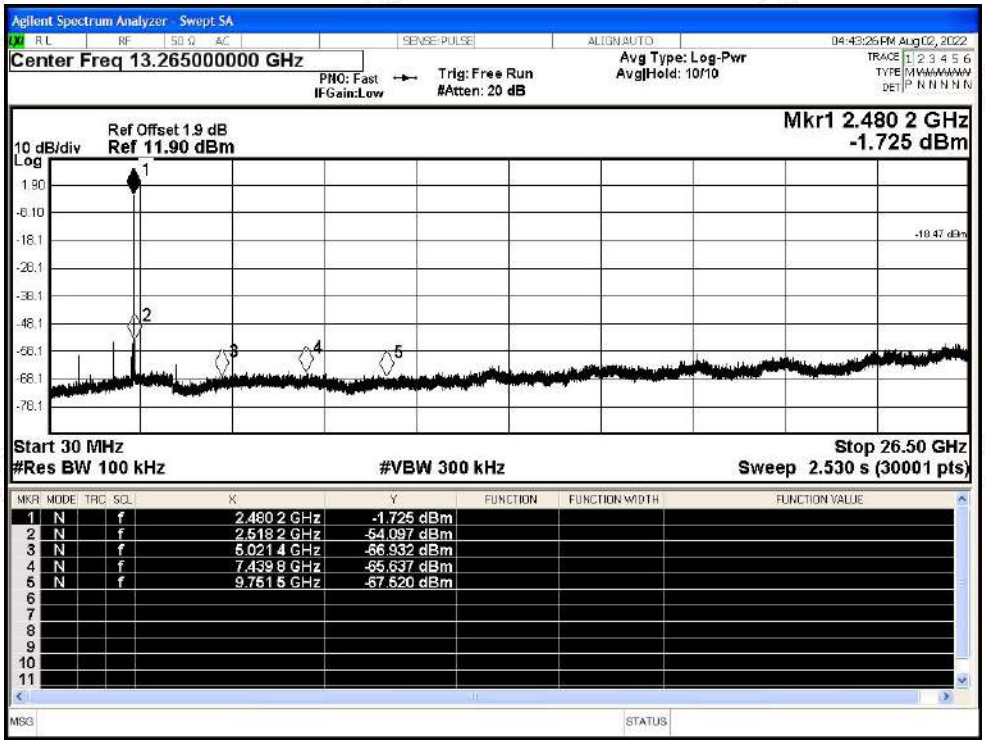
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



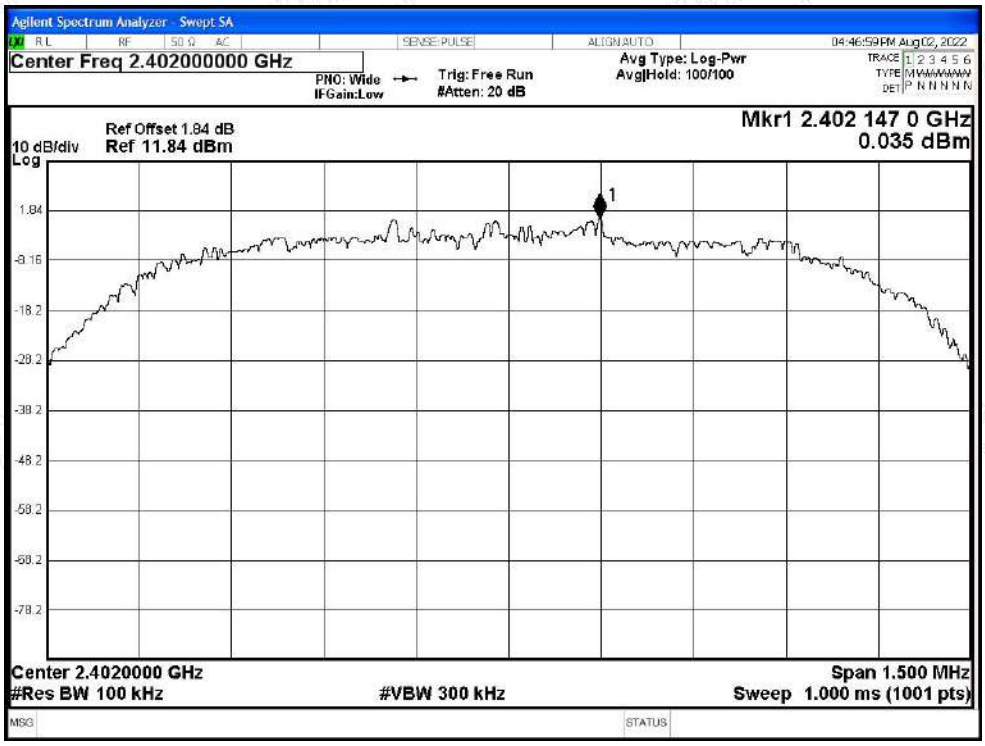
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



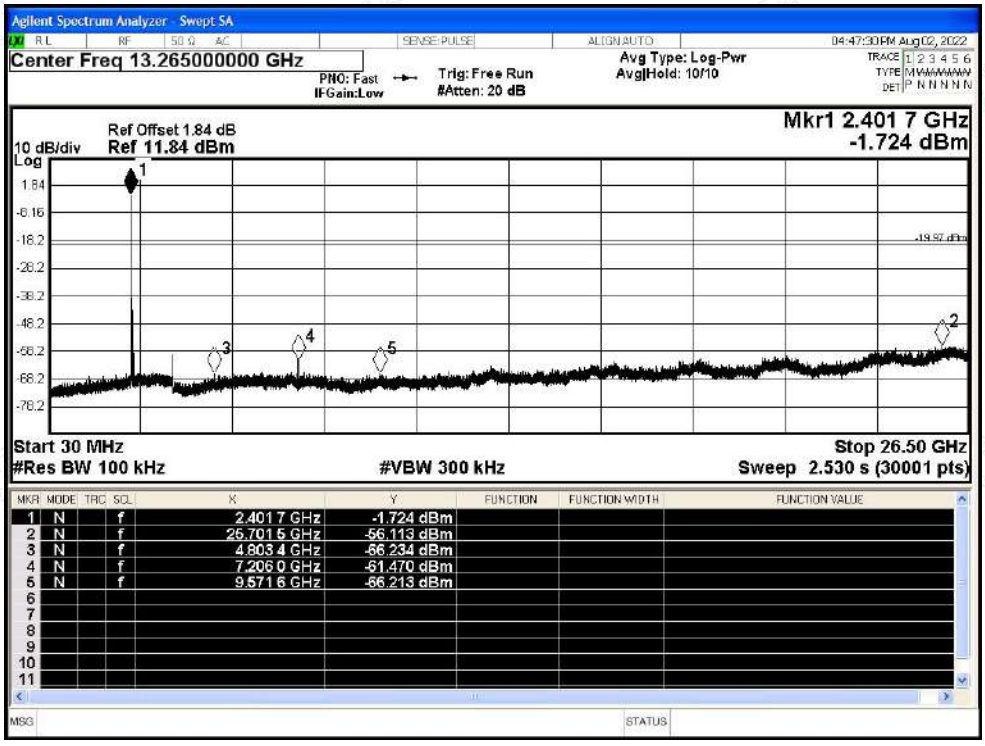
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



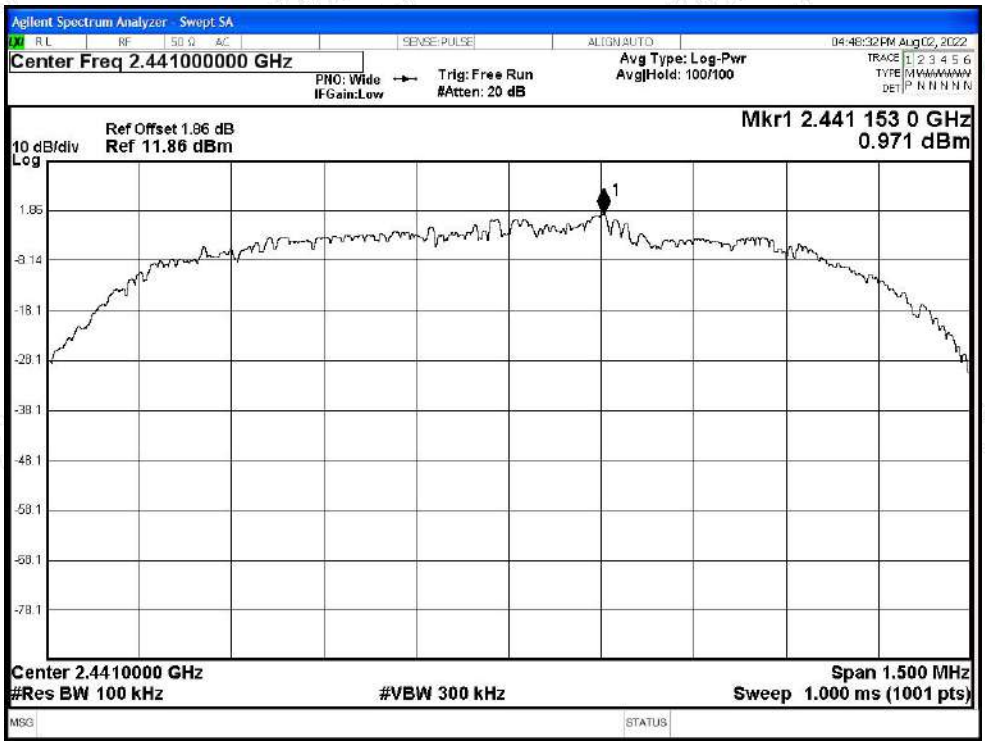
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



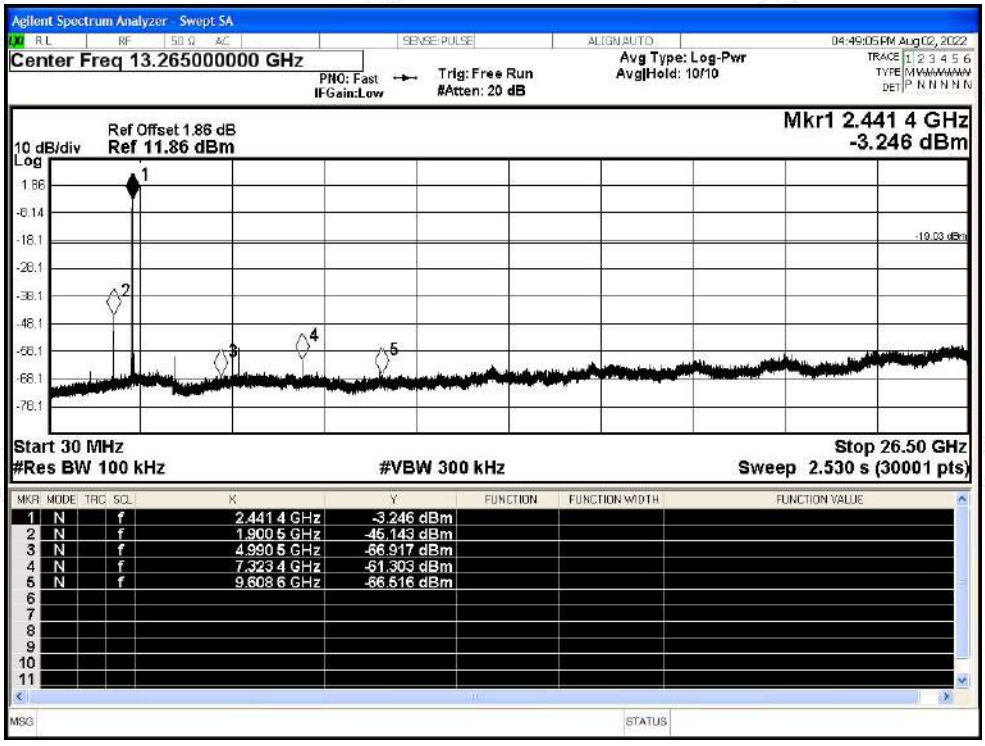
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



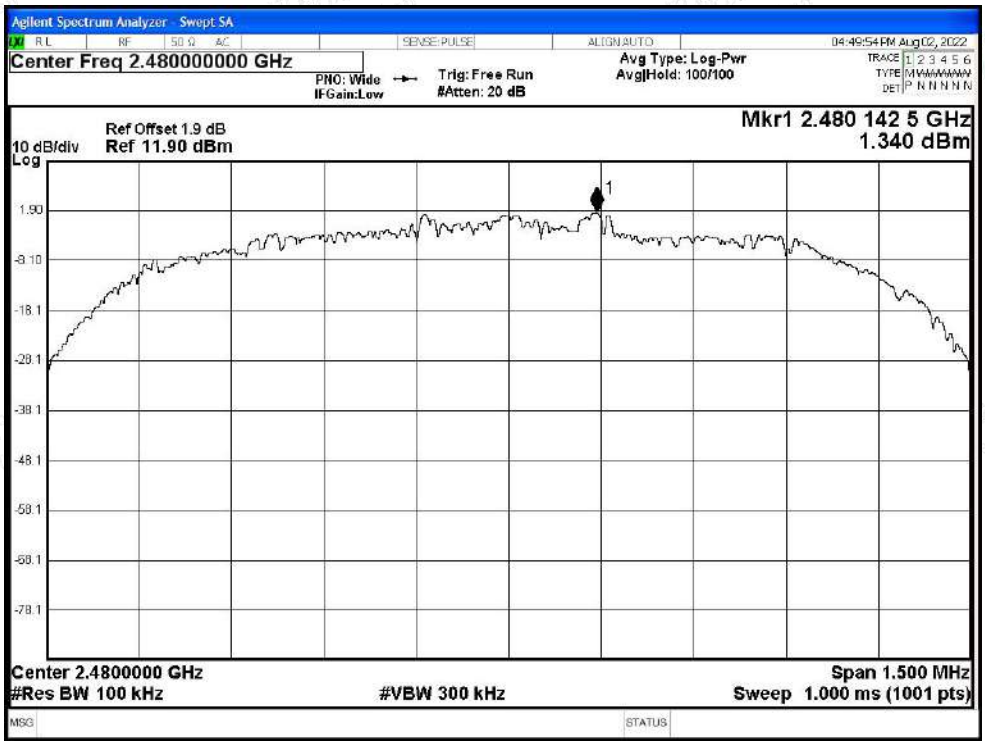
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



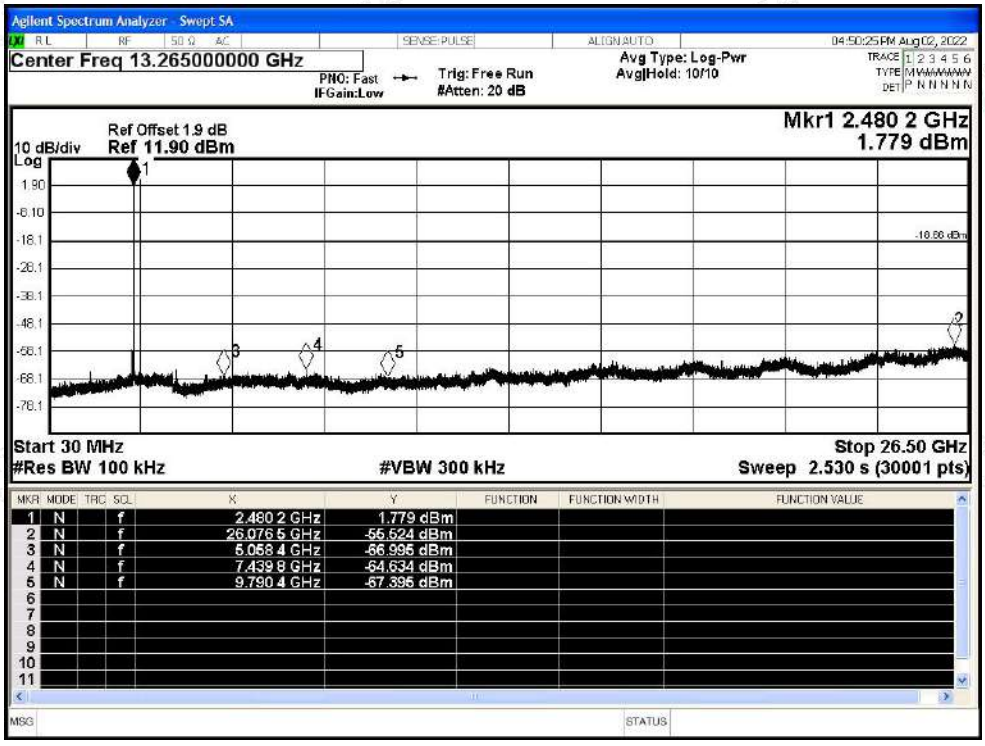
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

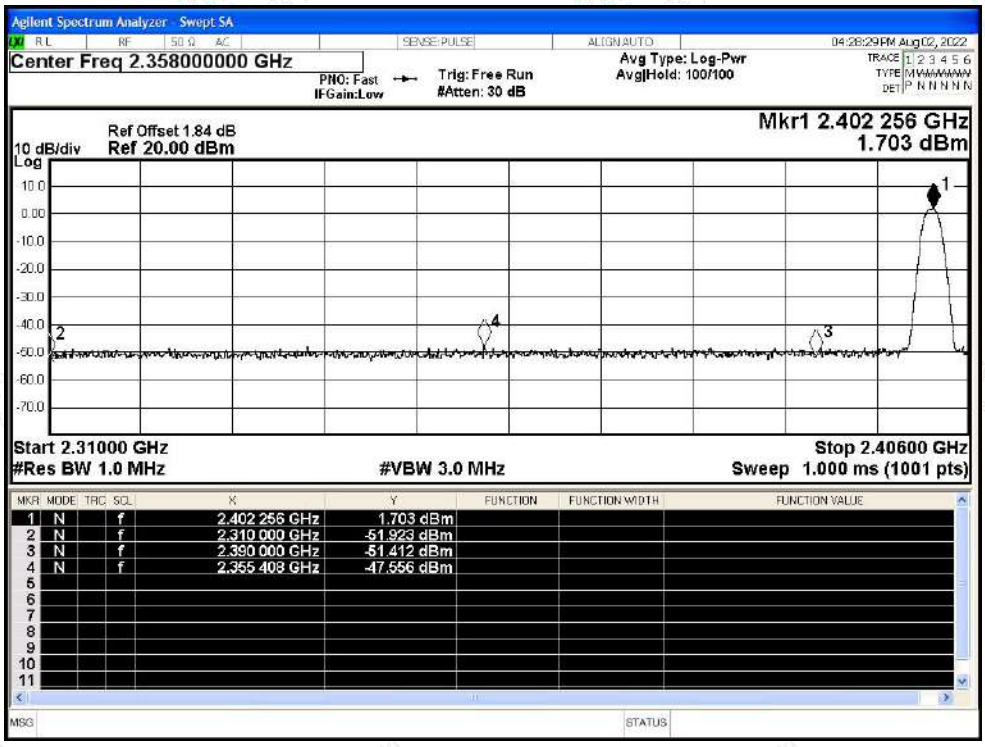


A.8 Restrict Band

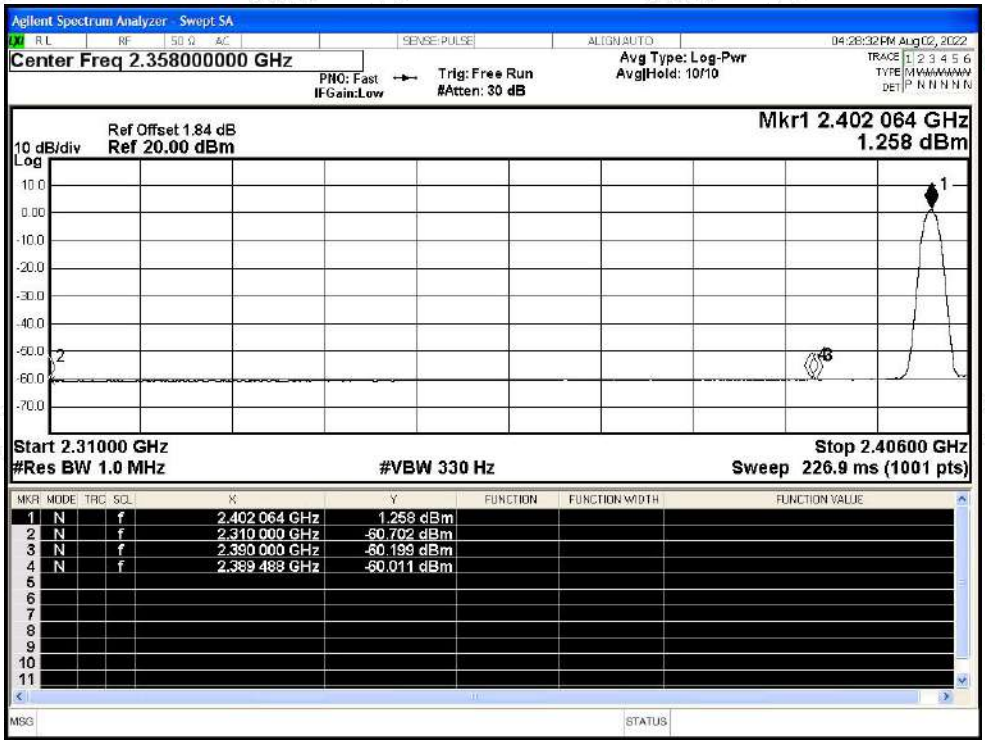
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.92	2	45.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.7	2	36.56	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2355.408	-47.56	2	49.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.488	-60.01	2	37.25	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.56	2	46.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.28	2	36.98	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.7	2	46.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.51	2	37.75	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.76	-46.95	2	50.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.824	-59.44	2	37.82	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.97	2	46.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.06	2	37.2	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.06	2	47.2	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.69	2	36.57	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.632	-46.99	2	50.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.392	-59.98	2	37.28	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.89	2	46.37	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.3	2	36.96	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.26	2	49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.02	2	38.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.76	-46.06	2	51.2	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.02	2	38.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.34	2	47.92	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.94	2	37.32	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.84	2	46.42	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2324.208	-47.74	2	49.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.872	-60.06	2	37.2	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.16	2	47.1	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.16	2	37.1	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.22	2	48.04	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.01	2	38.25	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.696	-46.17	2	51.09	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-59	2	38.26	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.87	2	46.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.07	2	37.19	Average	54	Pass

Test Graphs

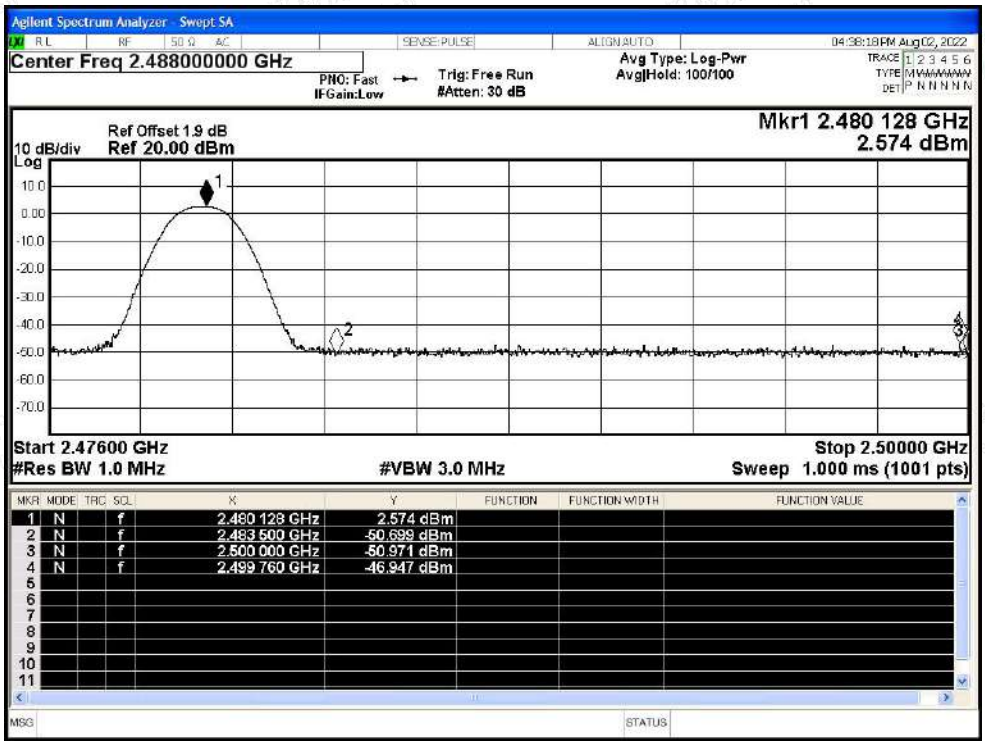
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



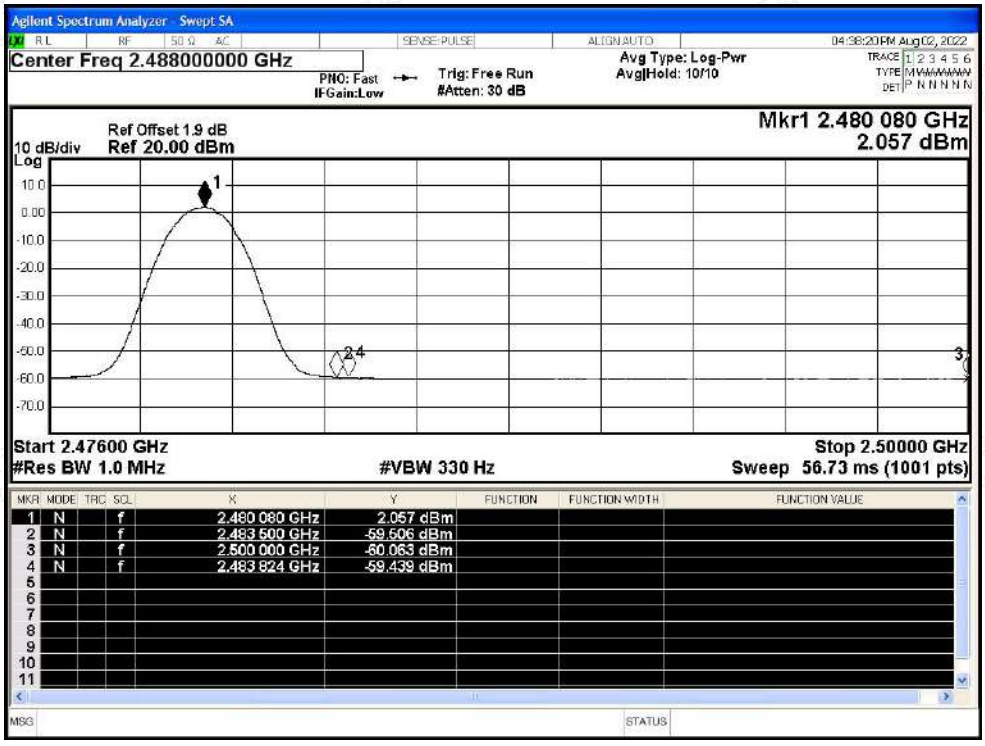
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



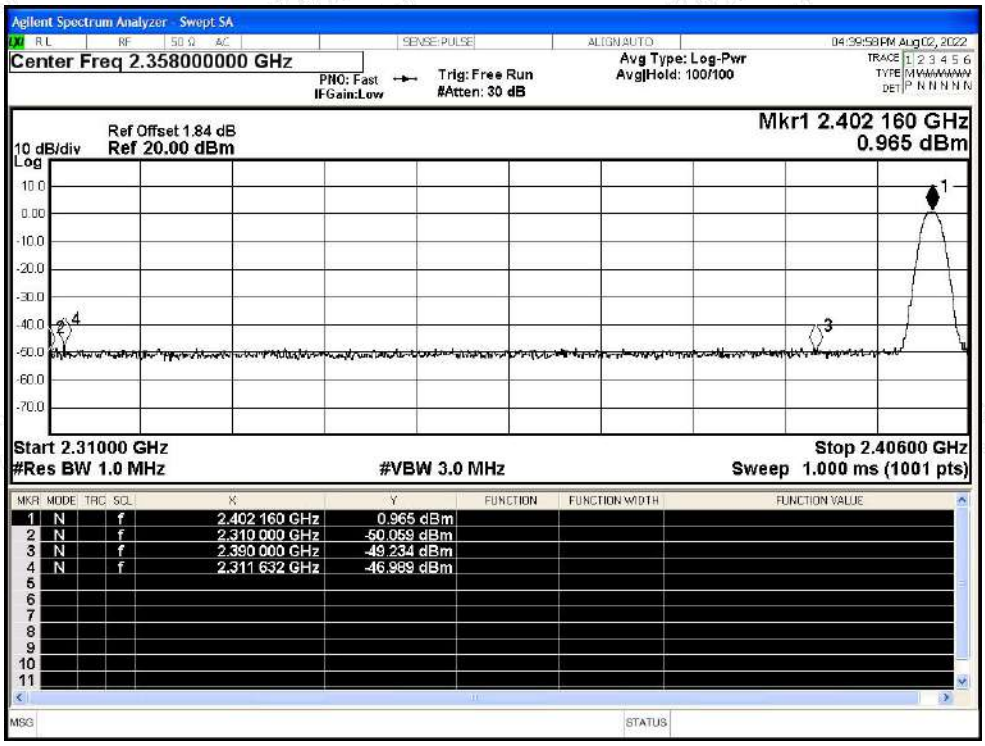
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



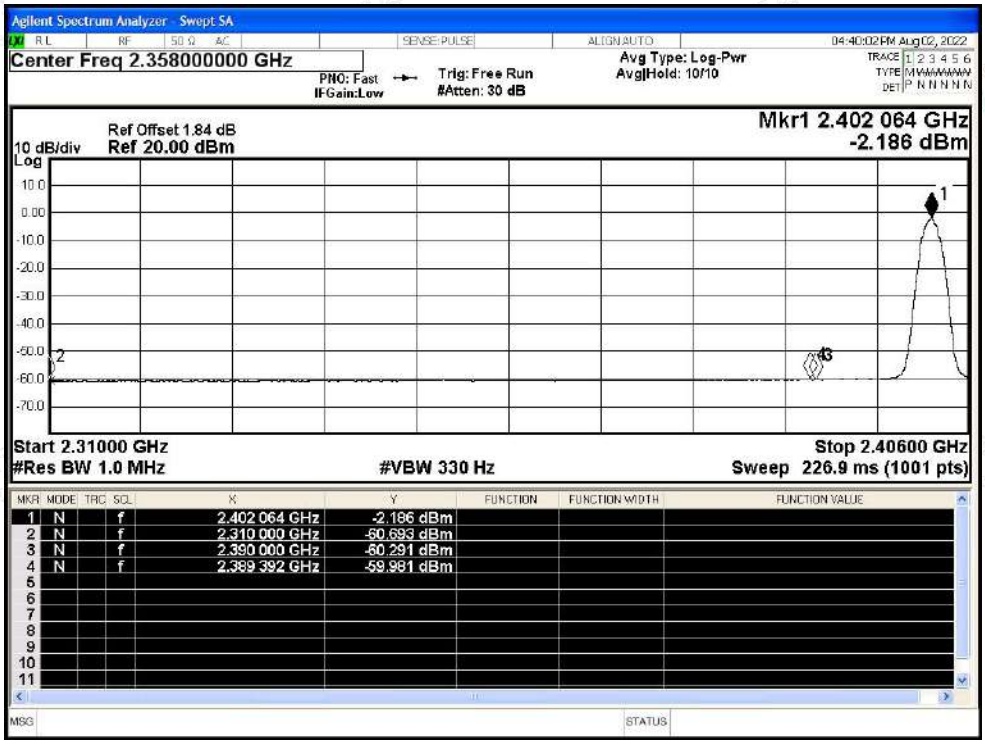
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



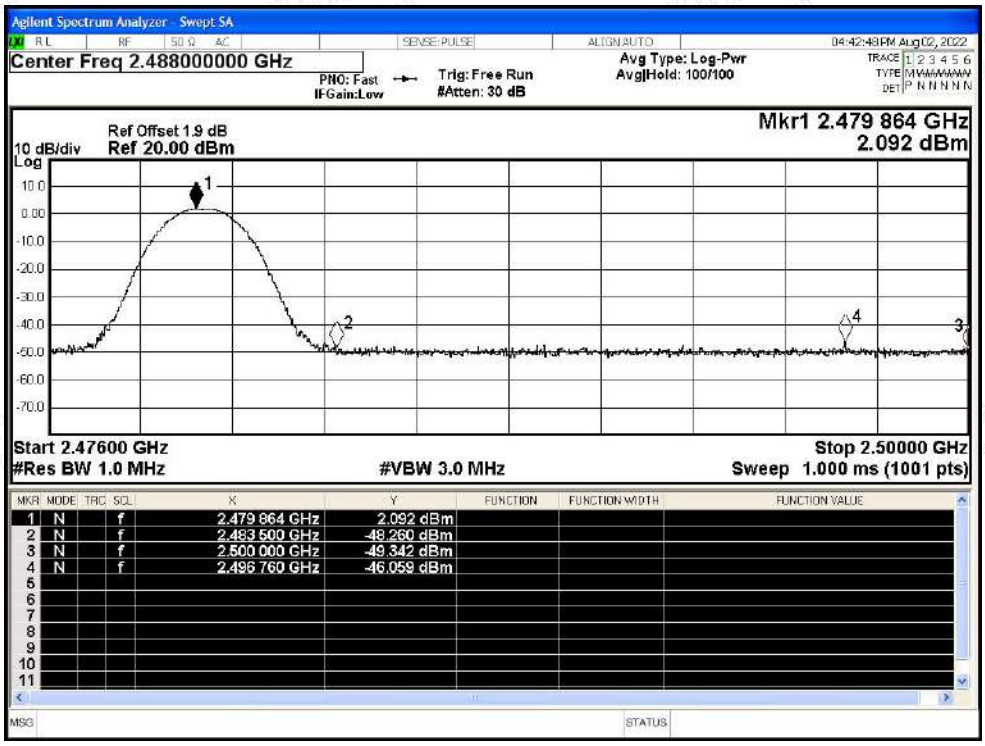
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



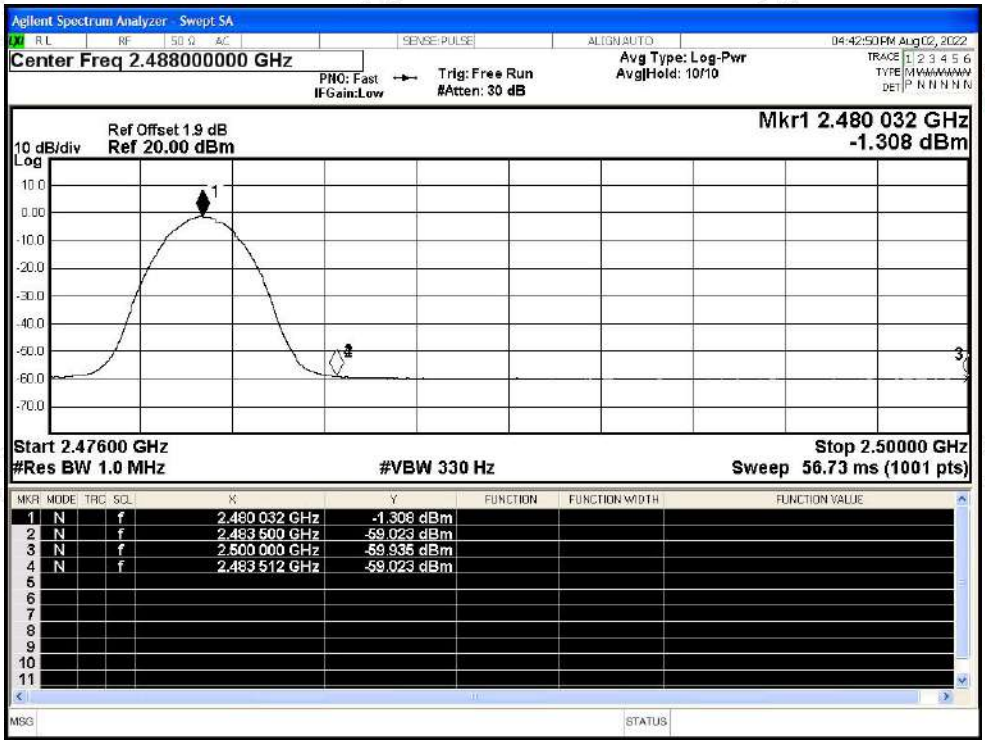
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



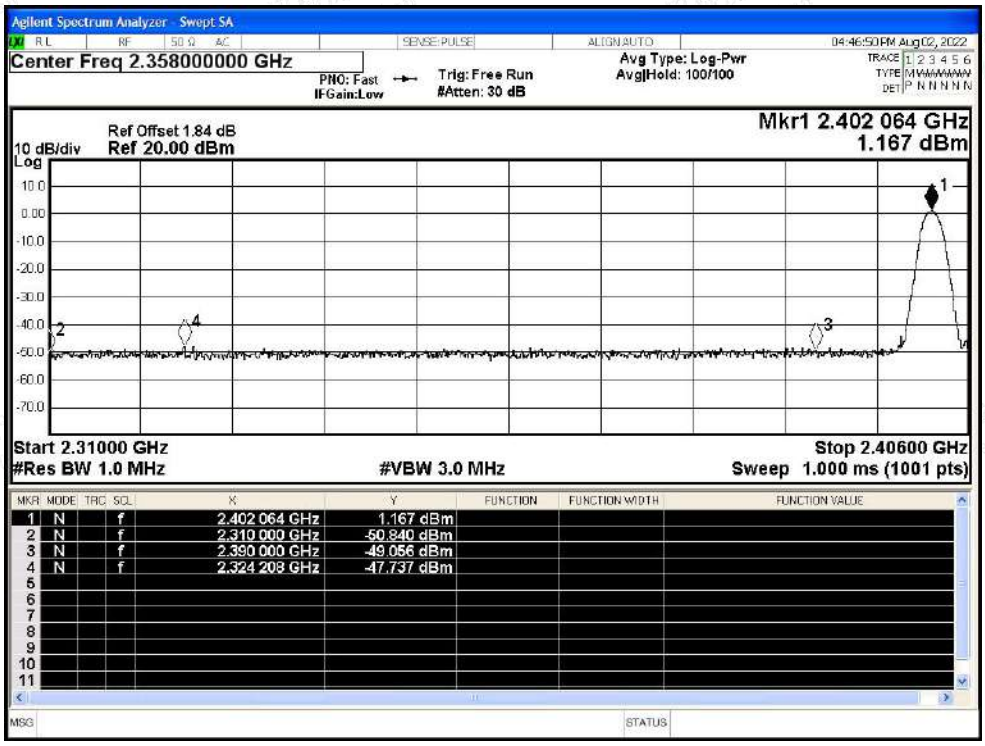
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



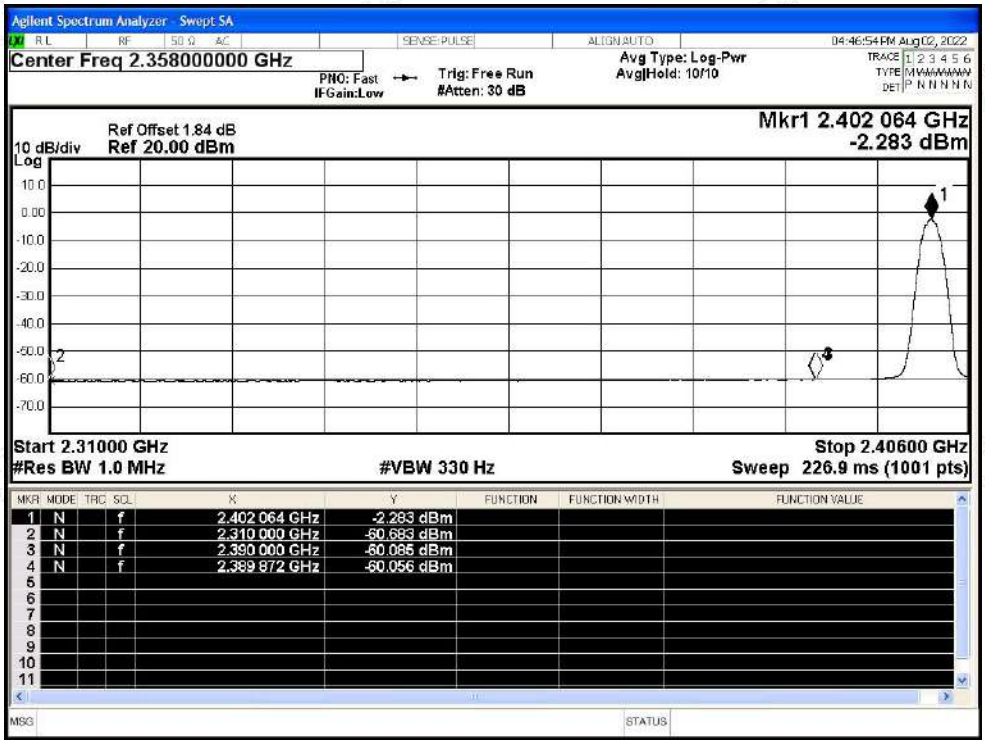
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



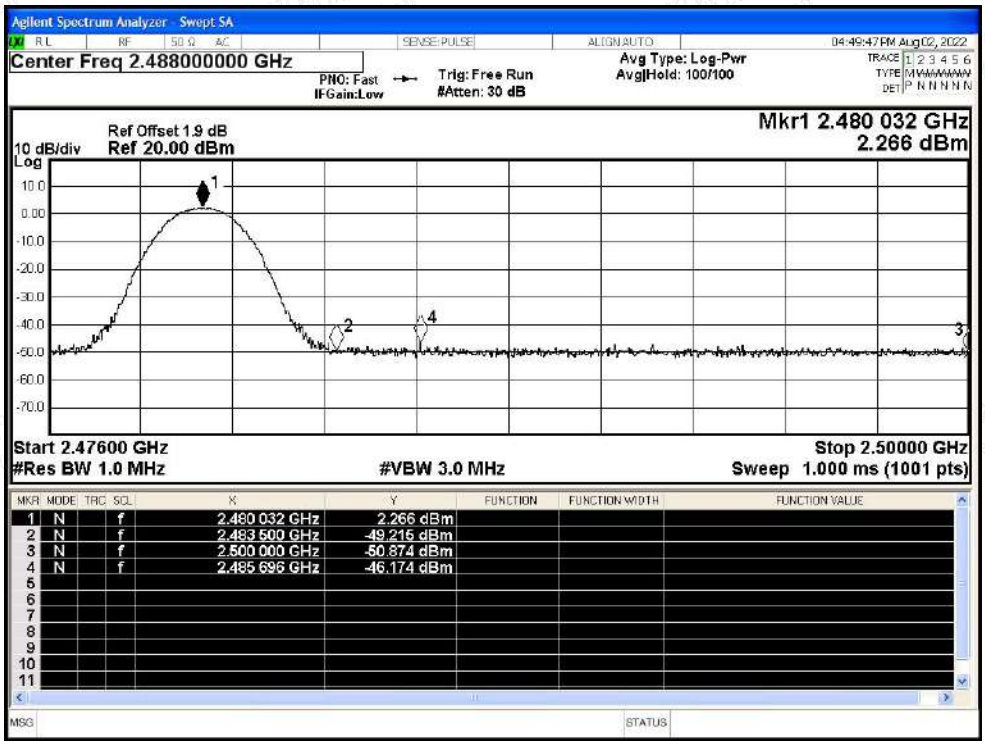
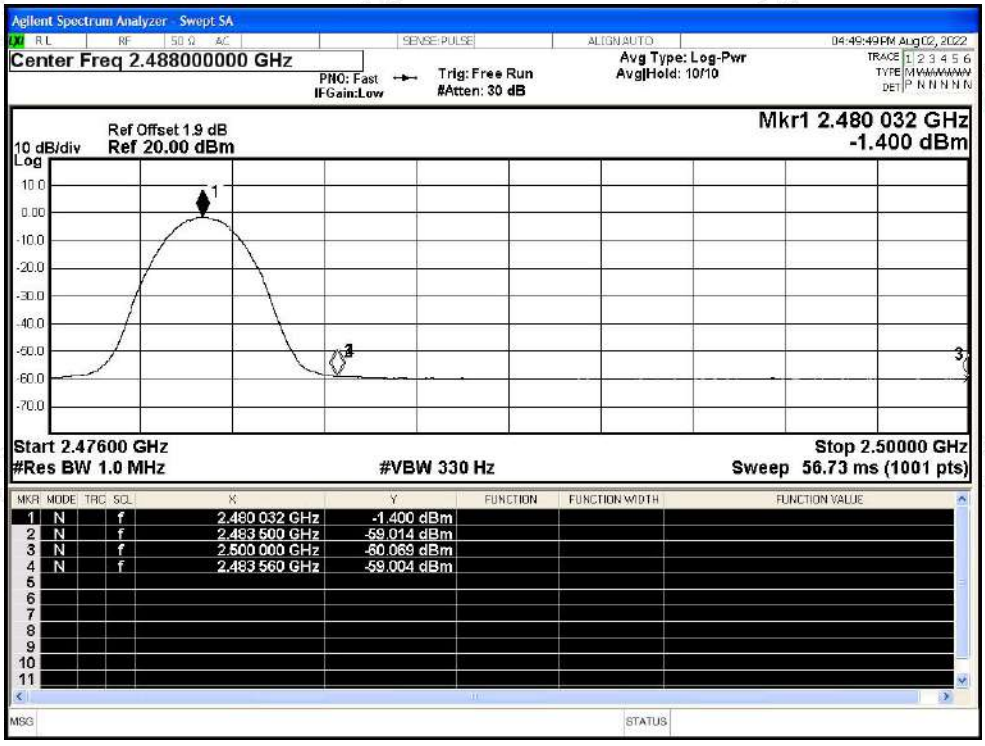
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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