Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Dance of Light Wireless Charging Bluetooth Speaker Lamp

Test Model: FY-M2202-N1/N2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu

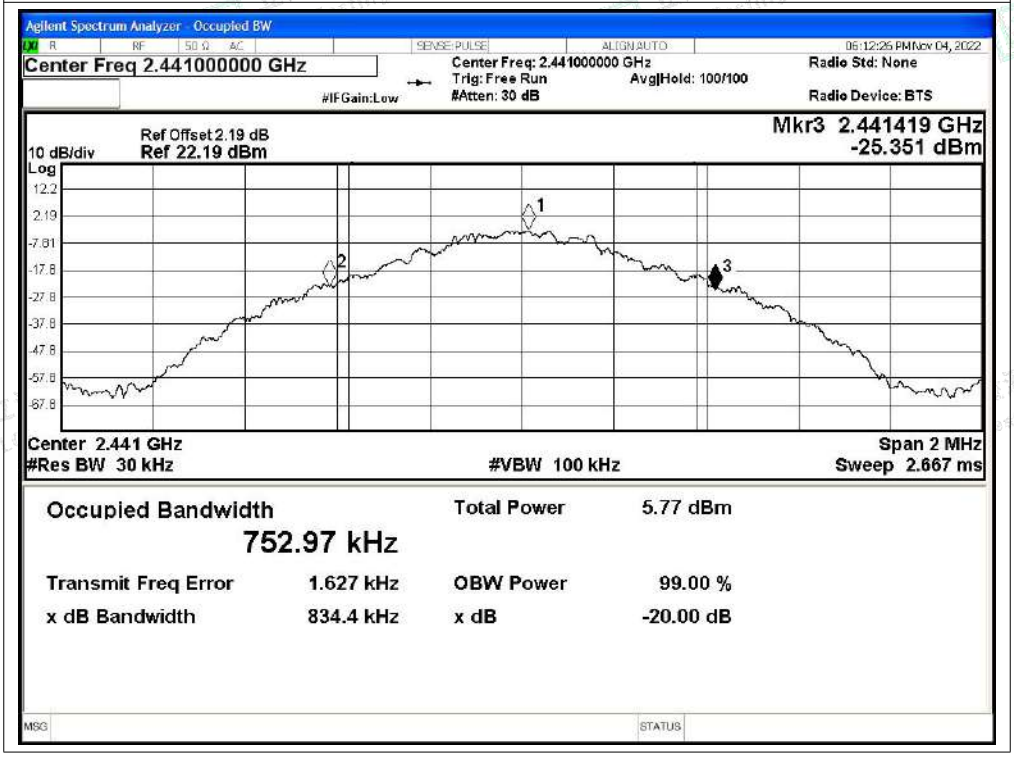
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.857	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.834	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.828	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.259	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.269	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.264	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.276	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.252	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.283	N/A	Pass

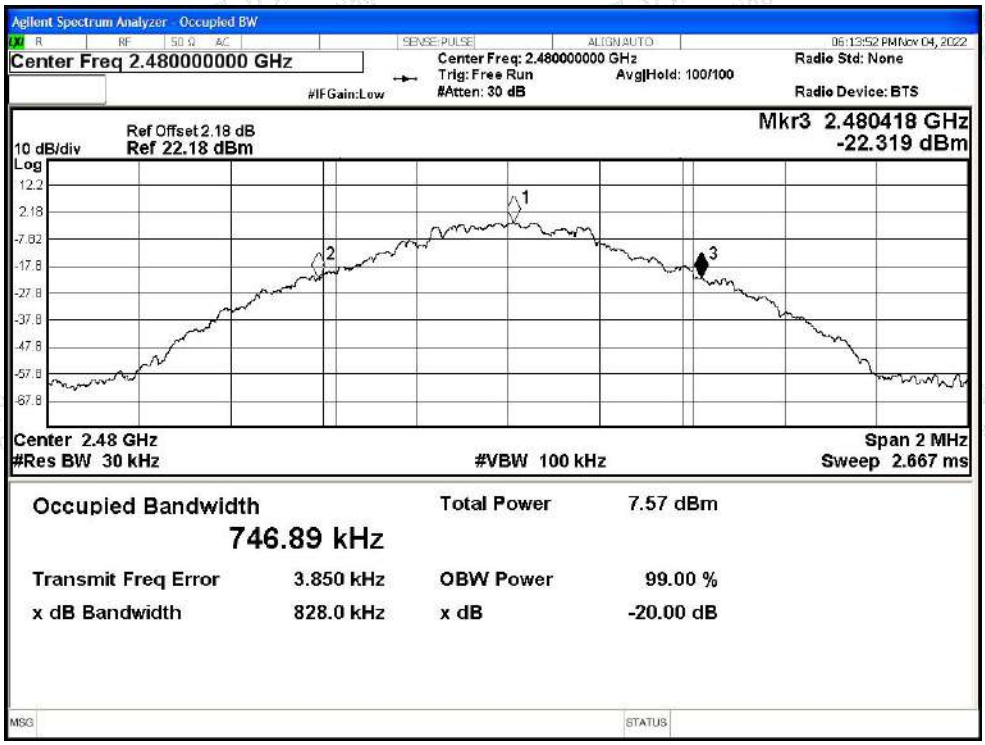
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

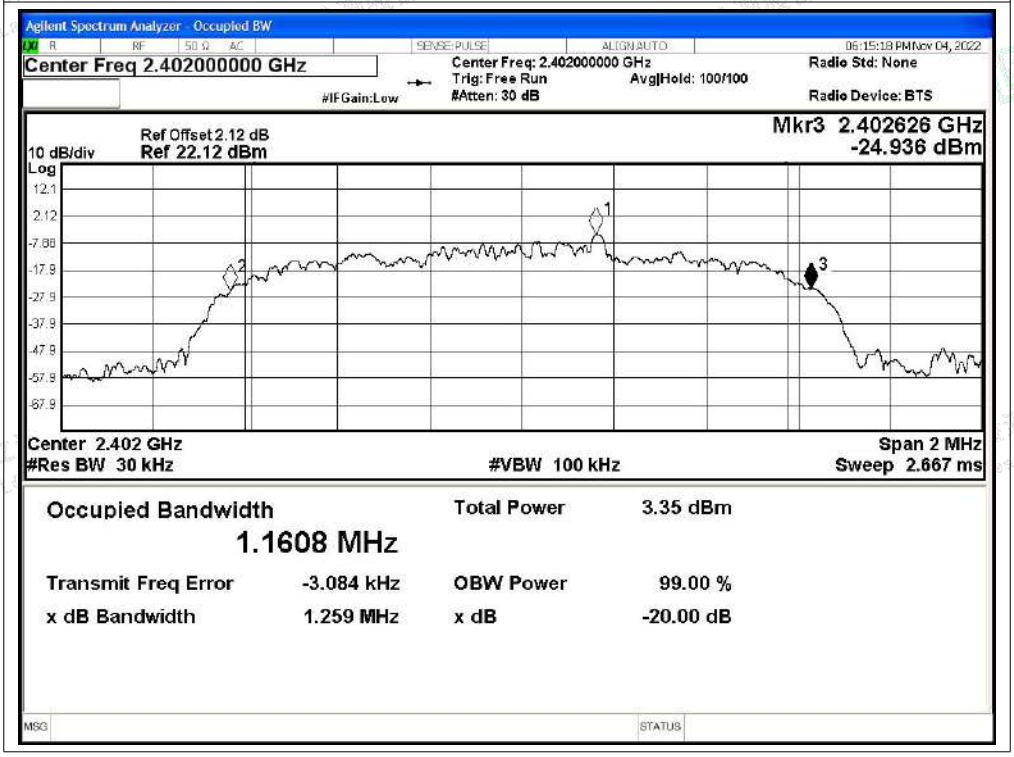
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



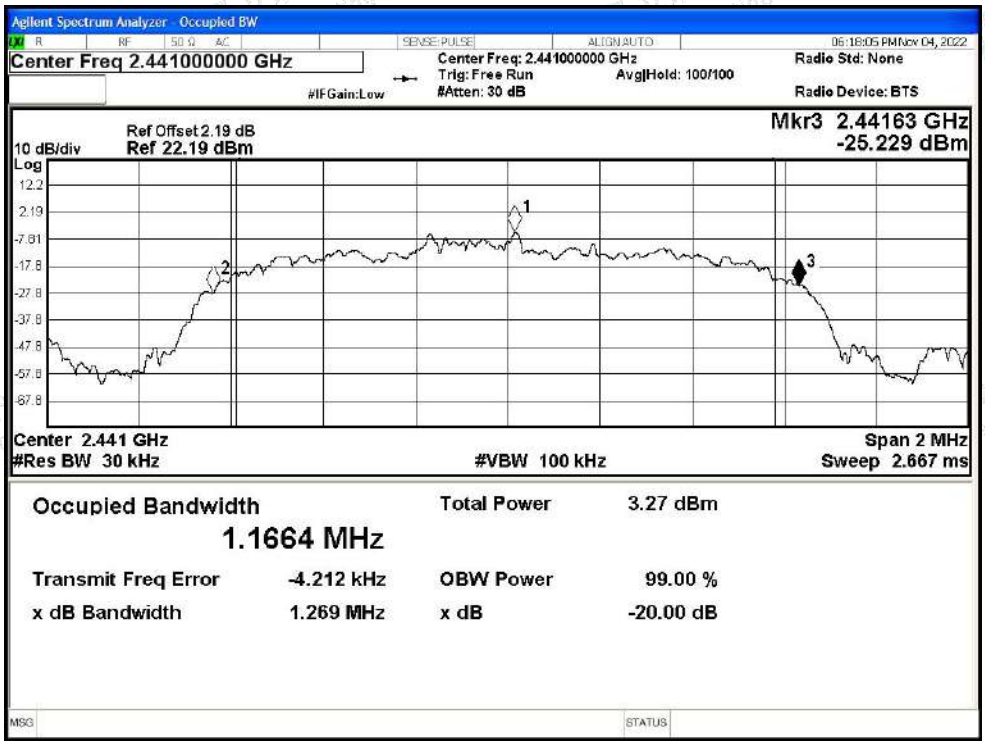
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



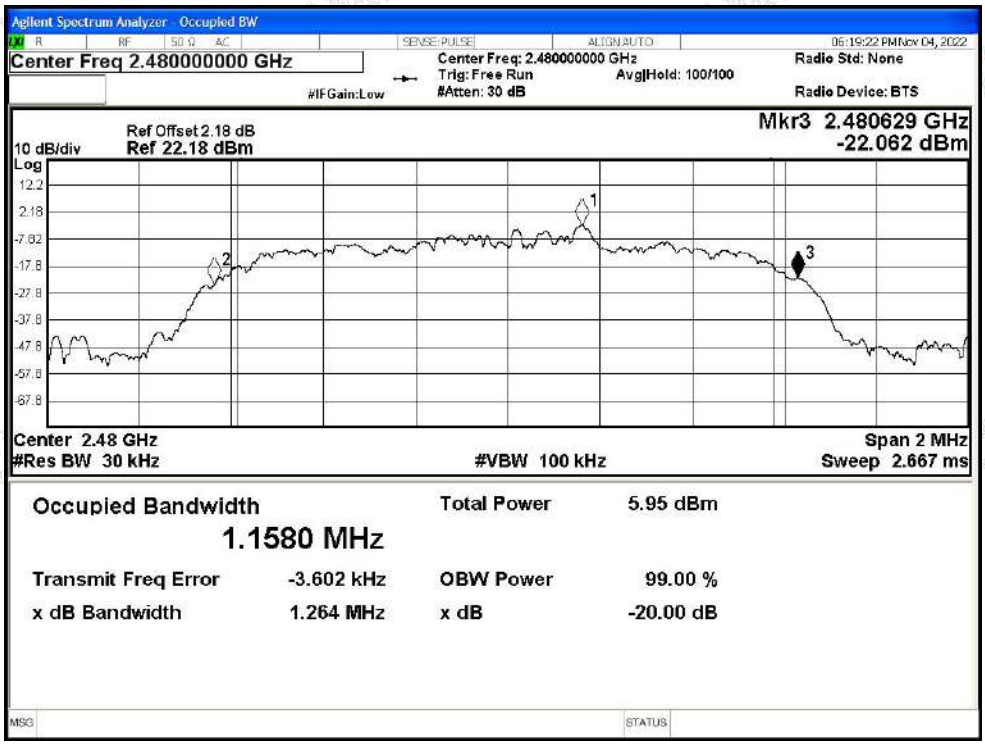
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



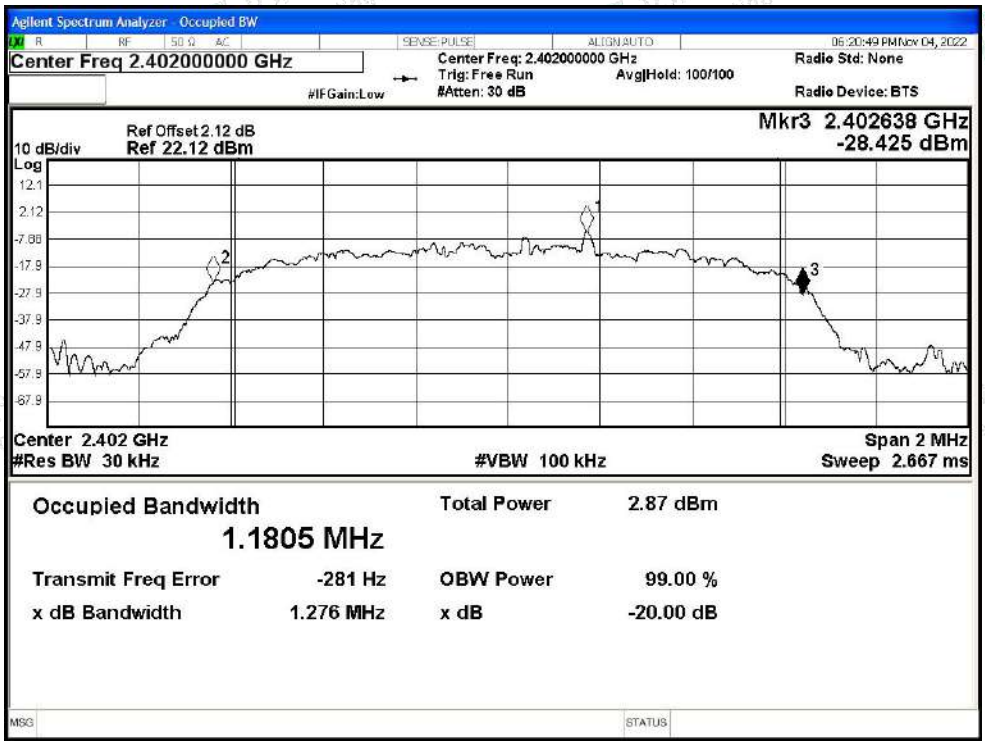
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



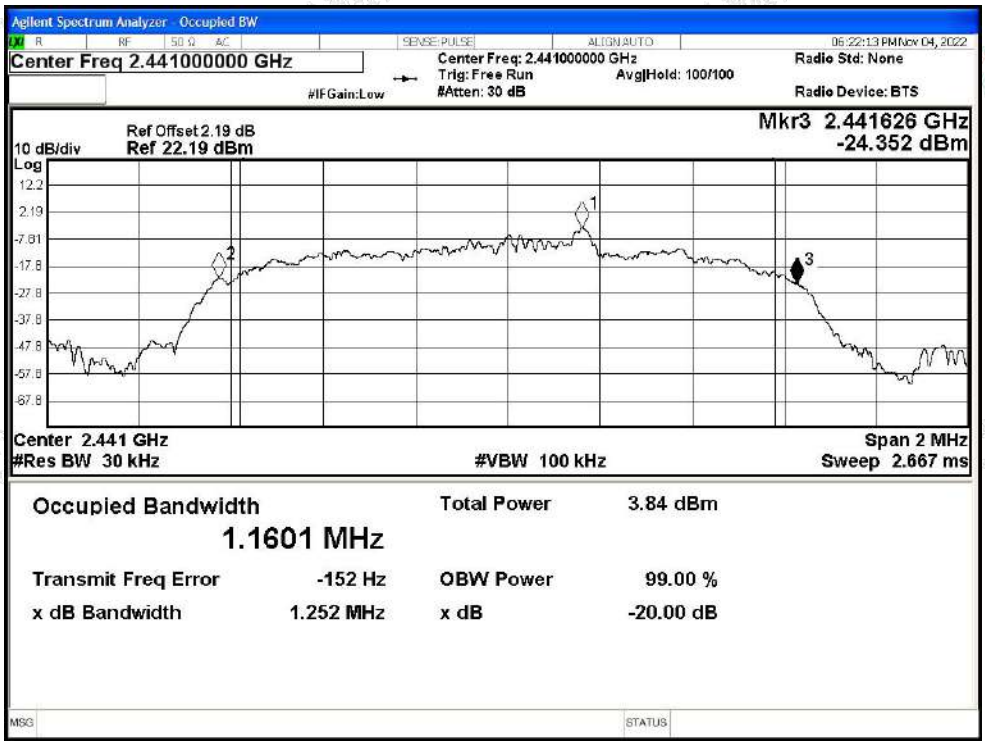
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



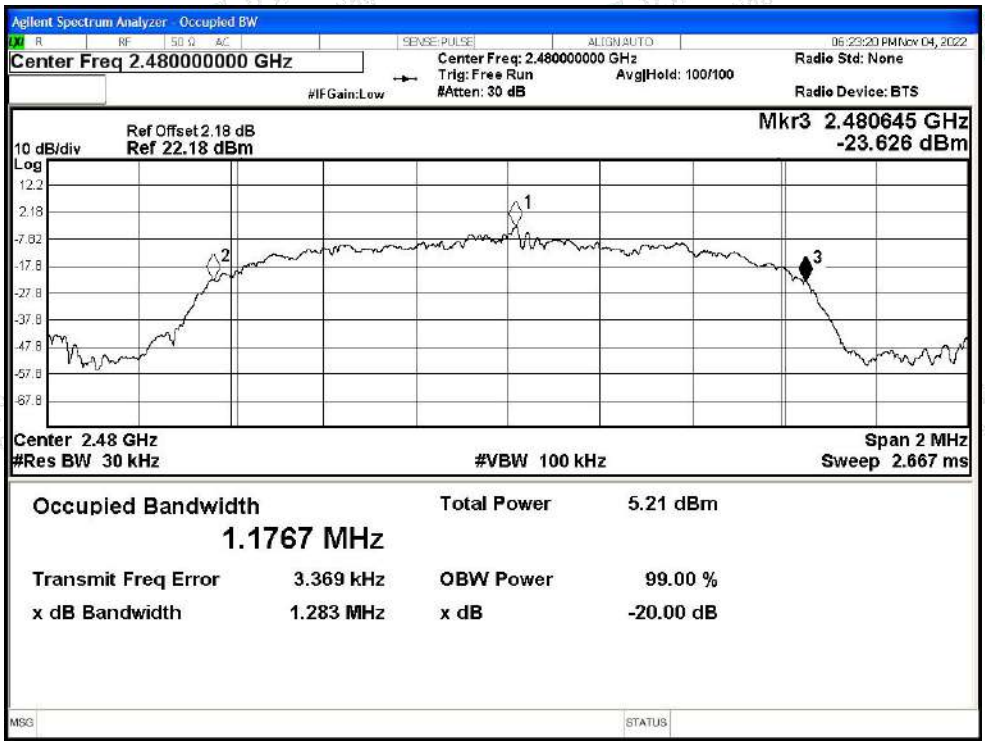
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

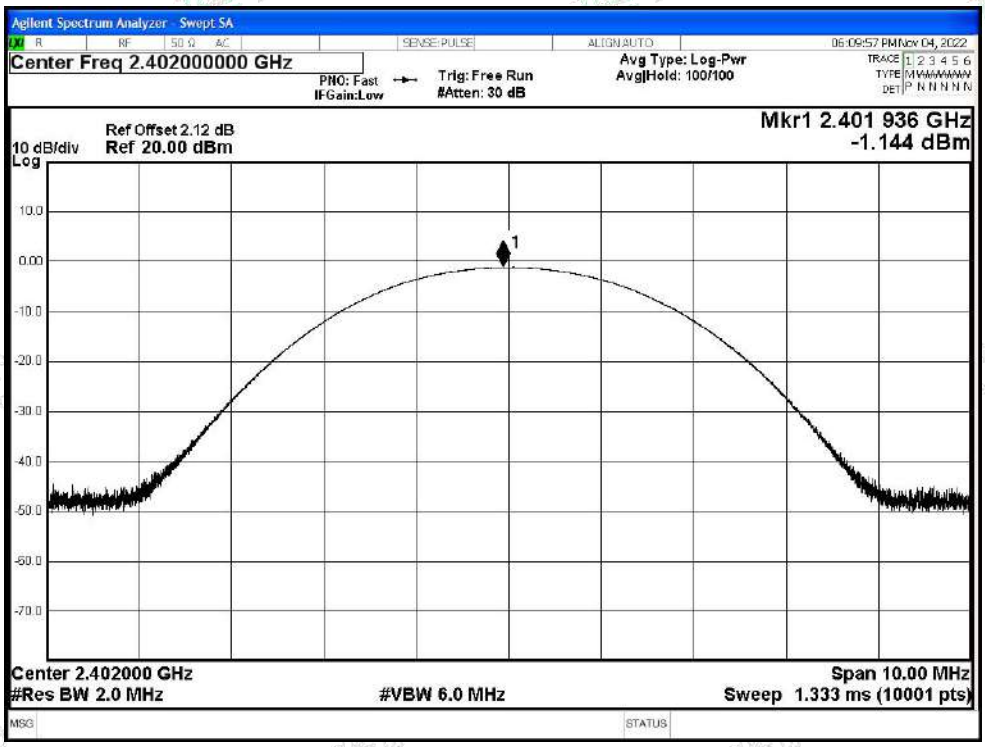


A.2 Maximum Conducted Output Power

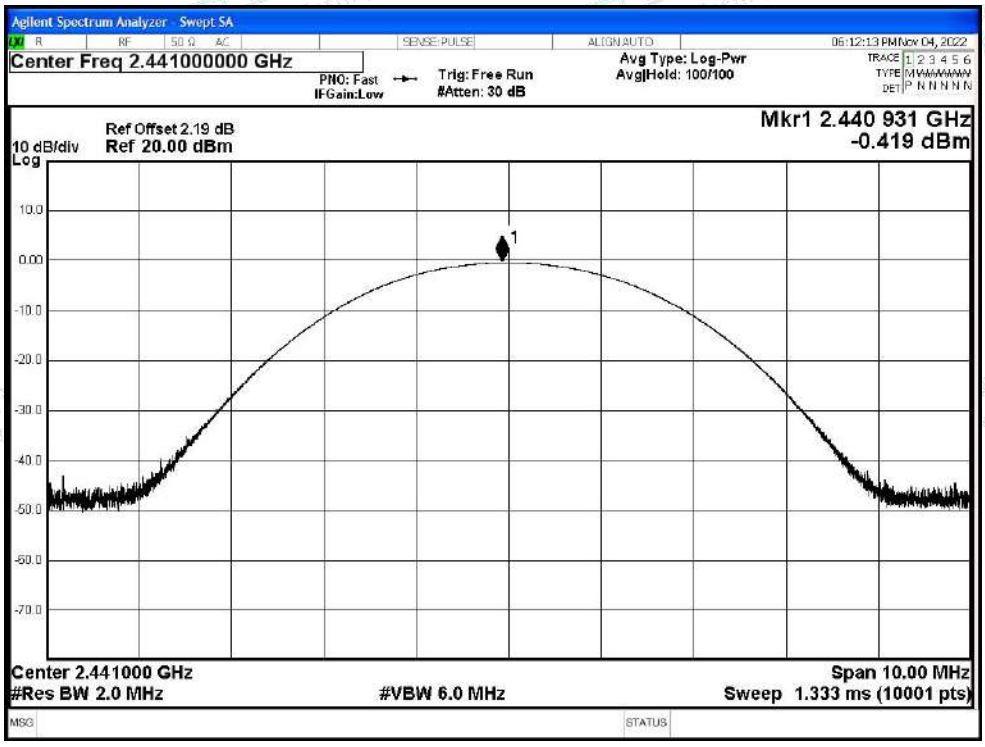
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.14	21	Pass
NVNT	1-DH5	2441	Ant1	-0.42	21	Pass
NVNT	1-DH5	2480	Ant1	1.25	21	Pass
NVNT	2-DH5	2402	Ant1	-1.37	21	Pass
NVNT	2-DH5	2441	Ant1	-1.29	21	Pass
NVNT	2-DH5	2480	Ant1	0.85	21	Pass
NVNT	3-DH5	2402	Ant1	-1.33	21	Pass
NVNT	3-DH5	2441	Ant1	-1.29	21	Pass
NVNT	3-DH5	2480	Ant1	0.84	21	Pass

Test Graphs

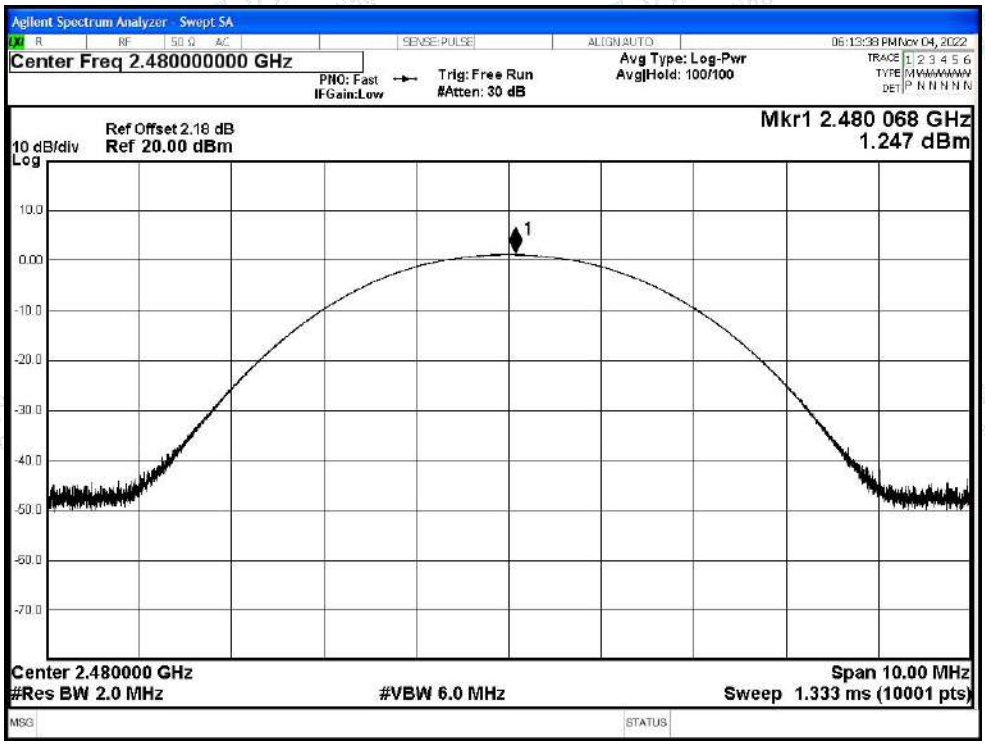
Power NVNT 1-DH5 2402MHz Ant1



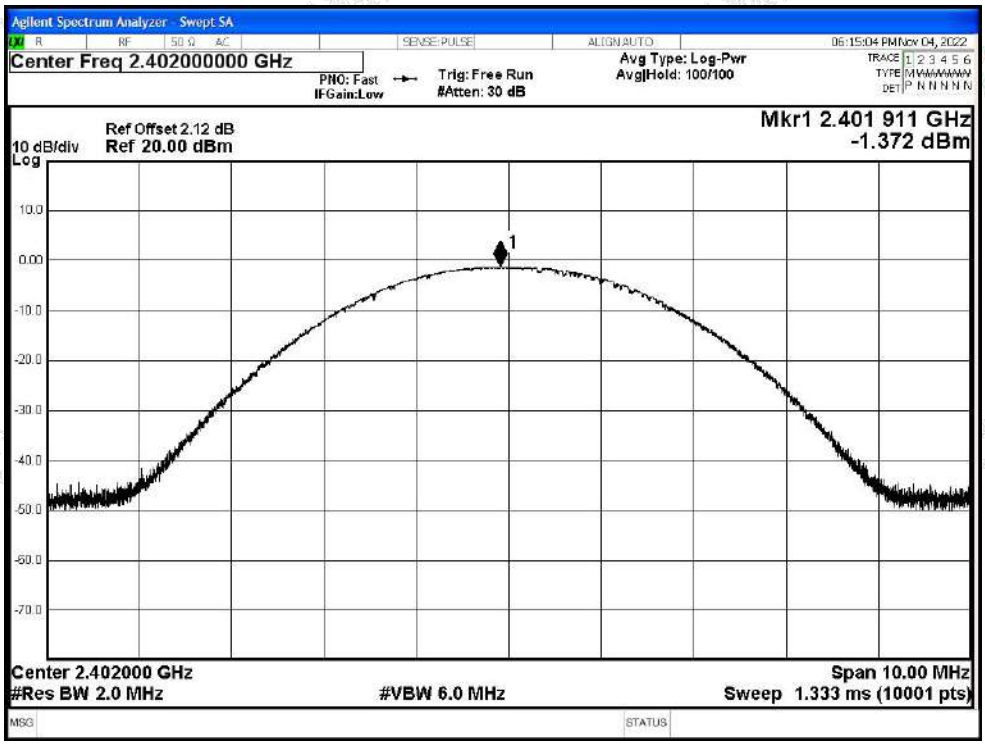
Power NVNT 1-DH5 2441MHz Ant1



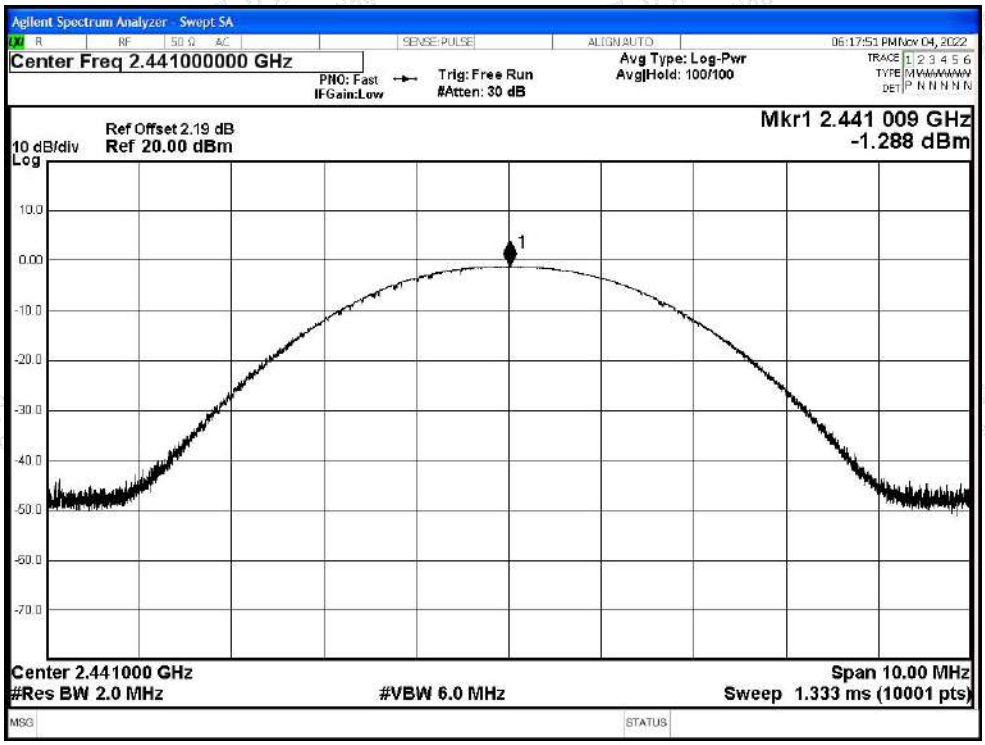
Power NVNT 1-DH5 2480MHz Ant1



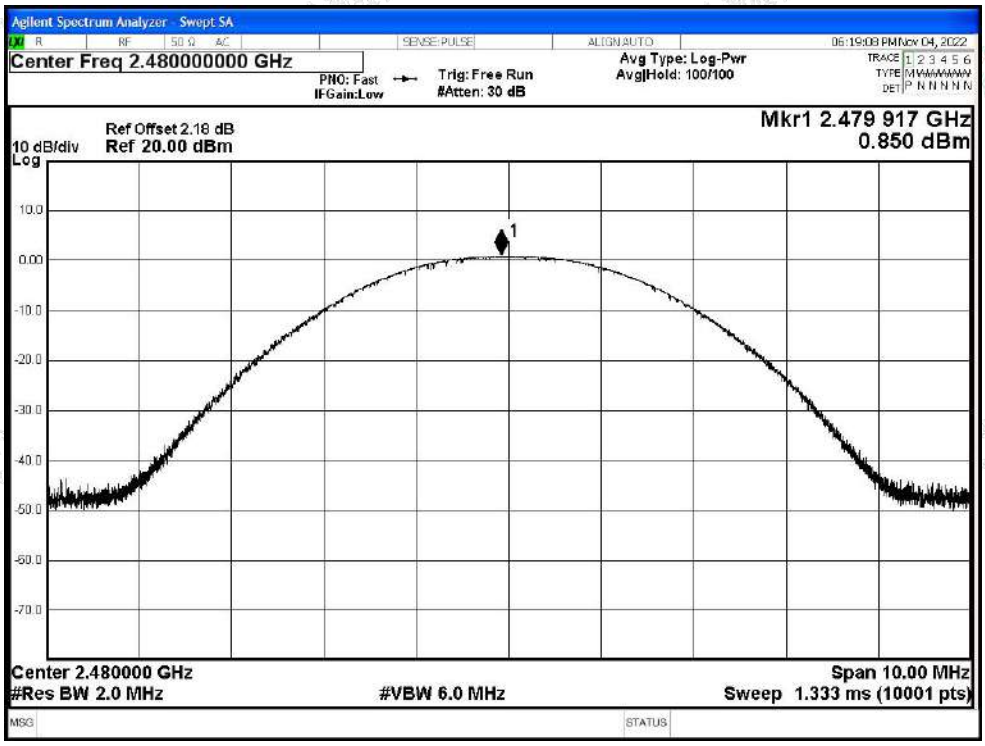
Power NVNT 2-DH5 2402MHz Ant1



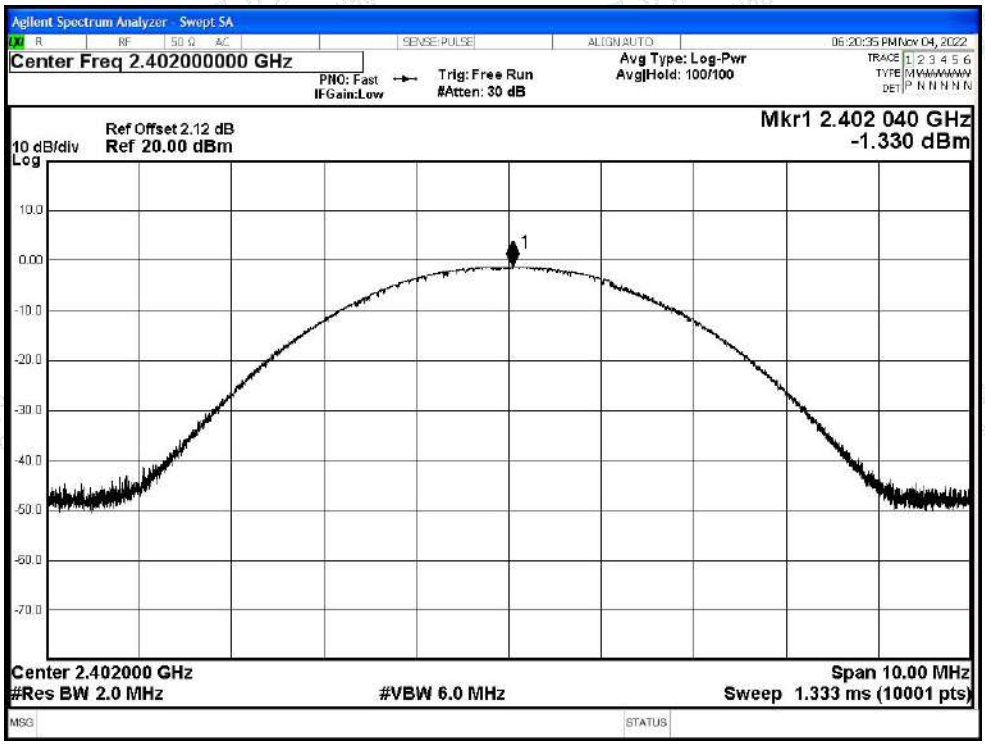
Power NVNT 2-DH5 2441MHz Ant1



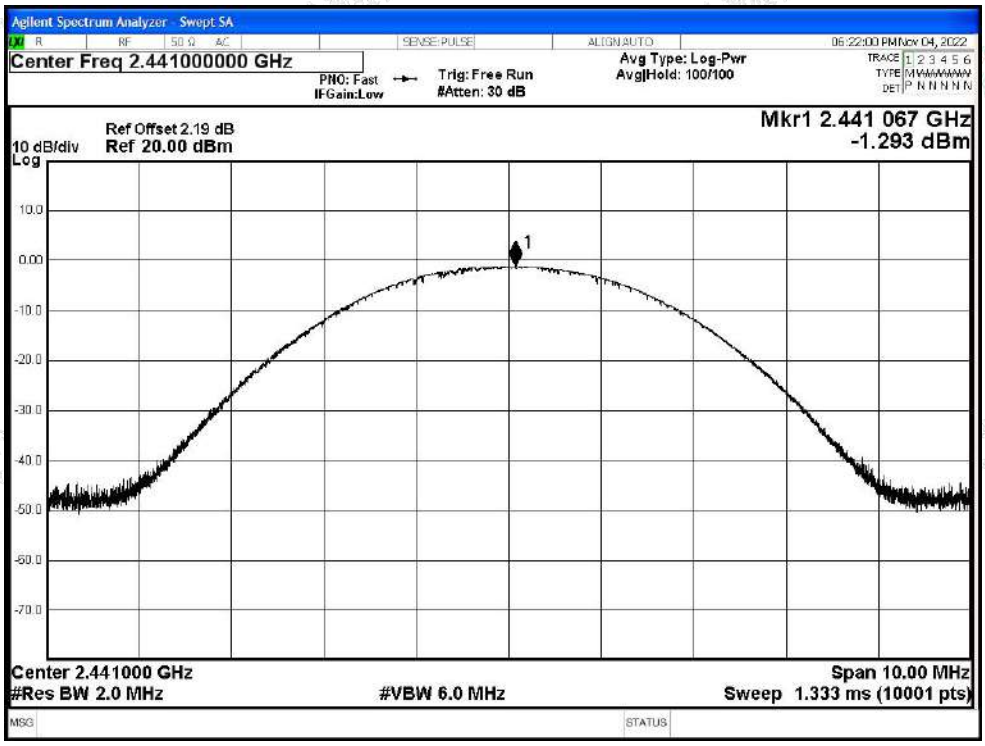
Power NVNT 2-DH5 2480MHz Ant1



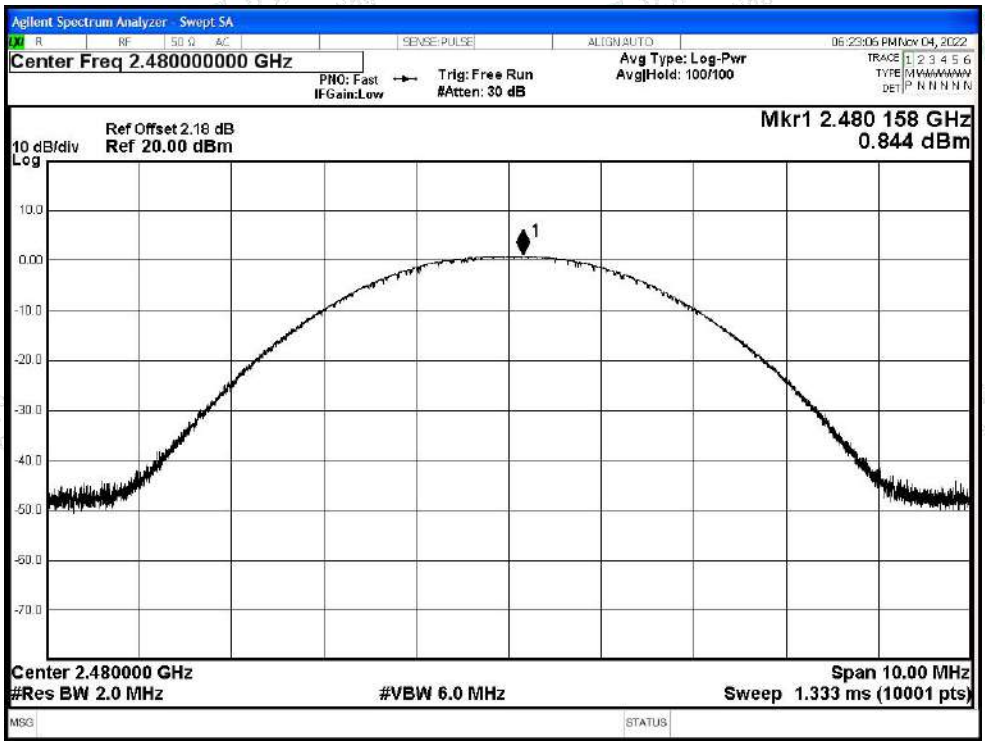
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

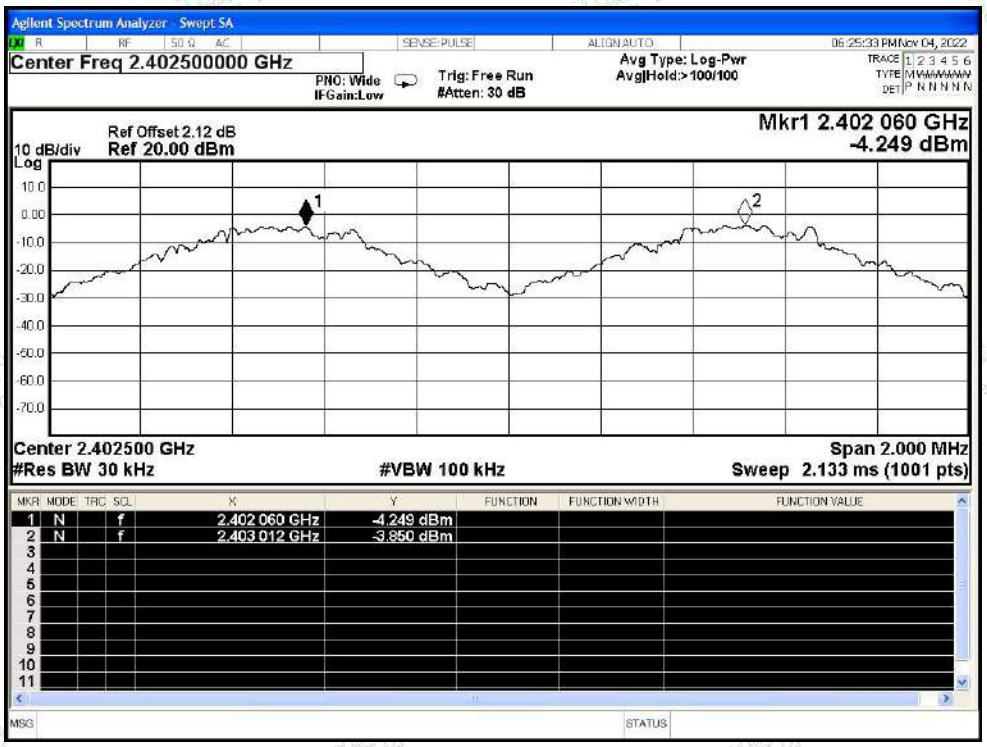


A.3 Carrier Frequencies Separation

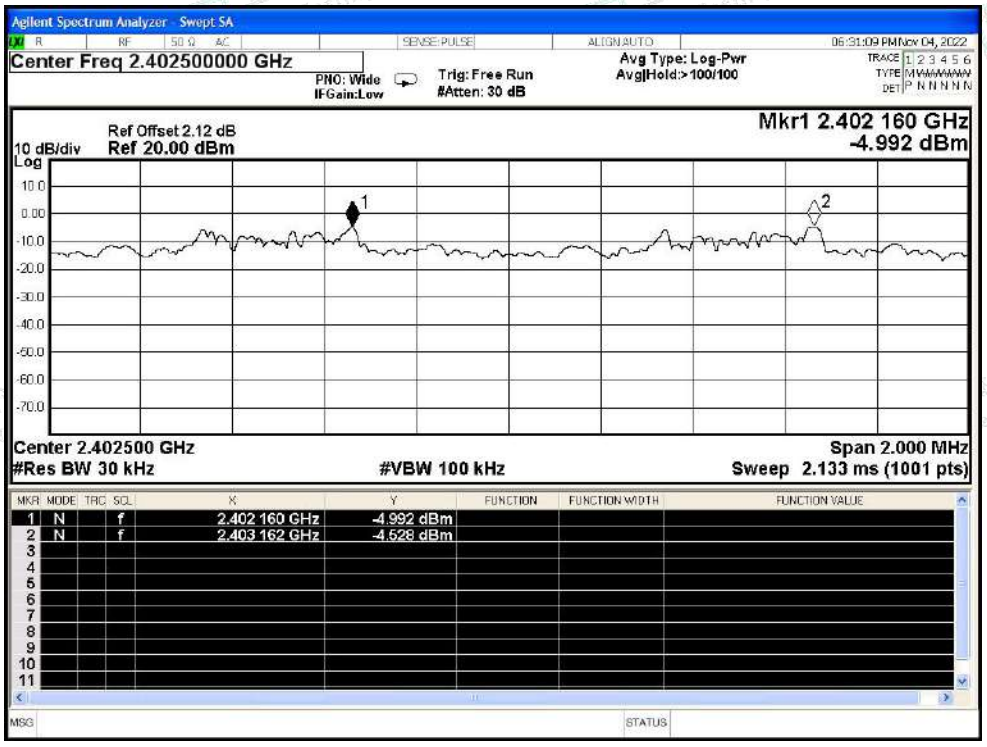
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.06	2403.012	0.952	0.571	Pass
NVNT	2-DH5	Ant1	2402.16	2403.162	1.002	0.839	Pass
NVNT	3-DH5	Ant1	2402.166	2403.16	0.994	0.851	Pass

Test Graphs

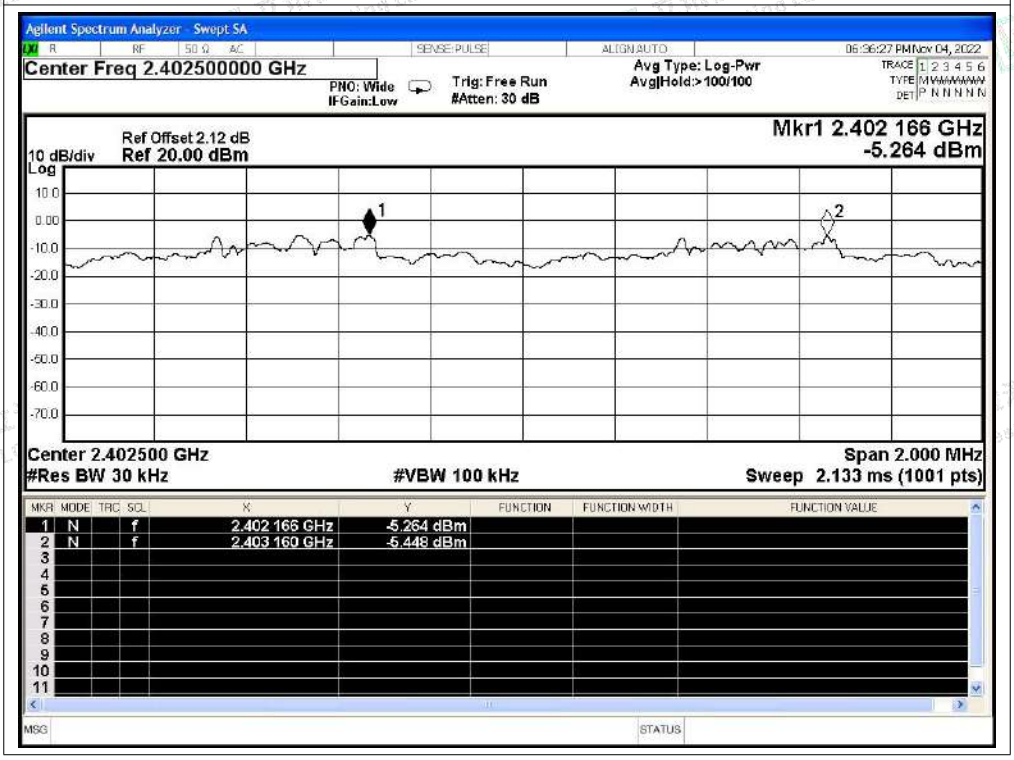
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

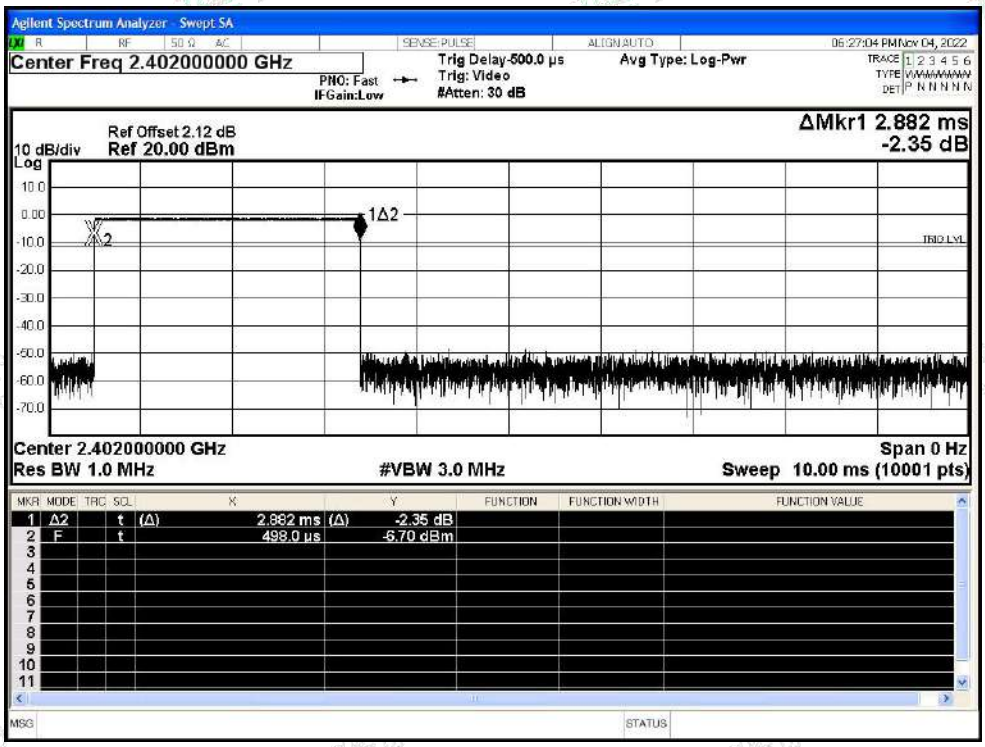


A.4 Dwell Time

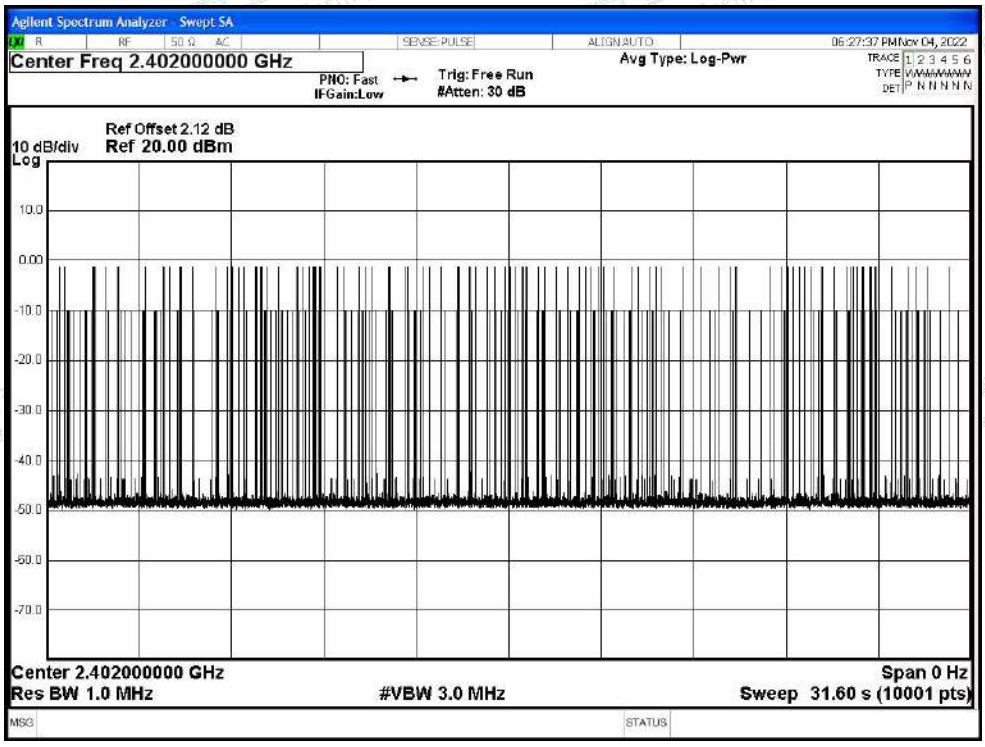
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	313.92	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	317.57	110	31600	400	Pass

Test Graphs

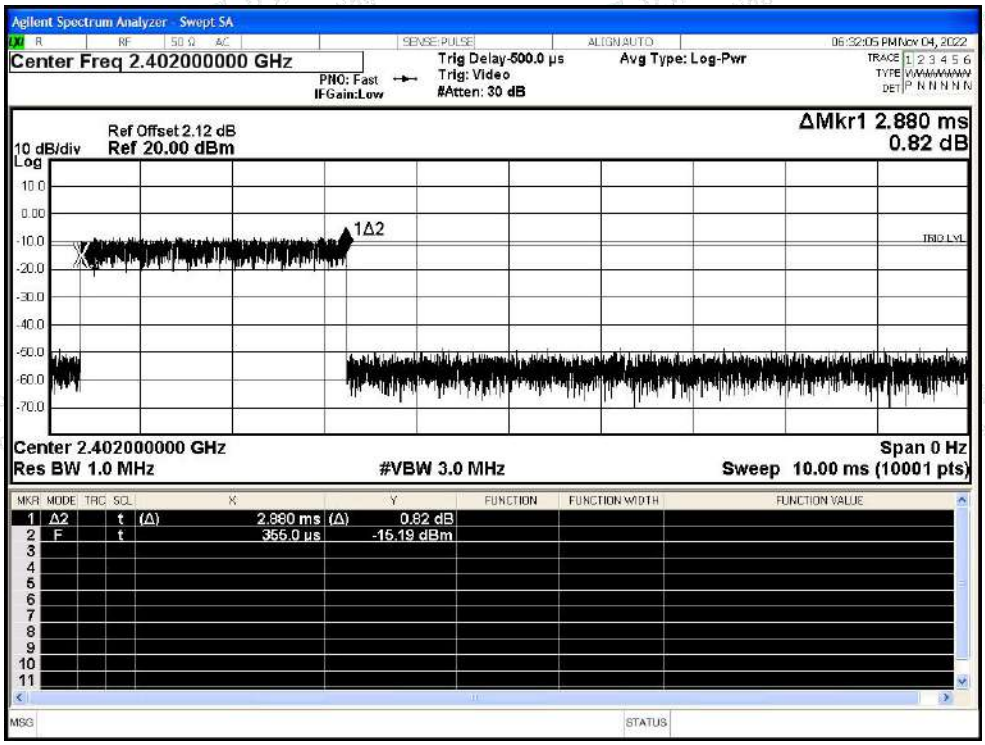
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



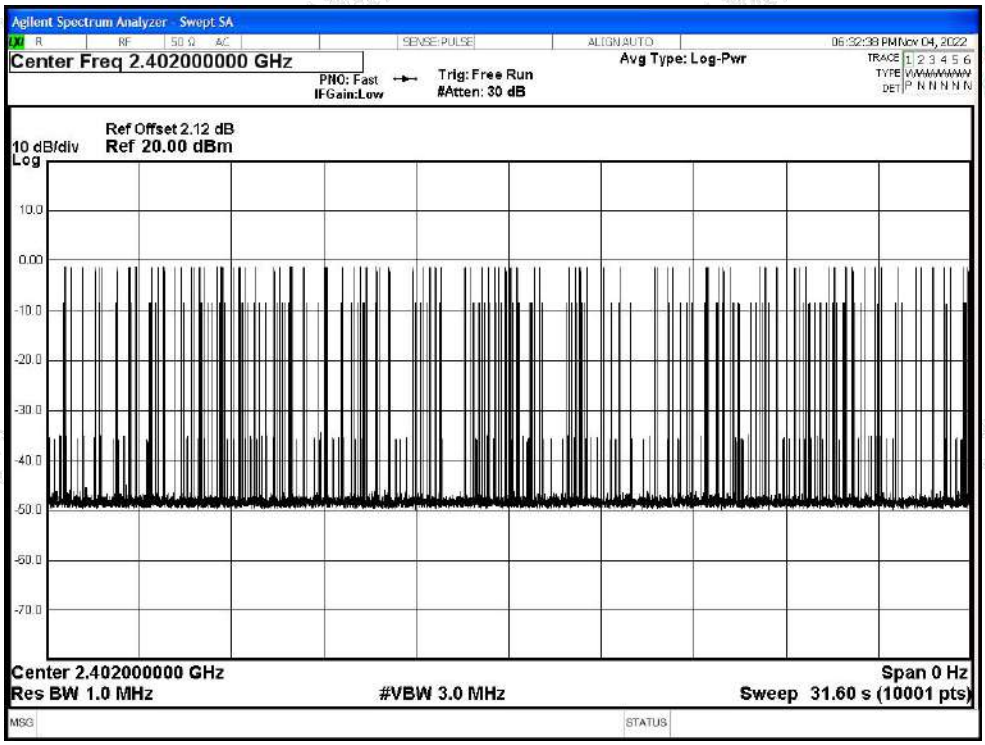
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



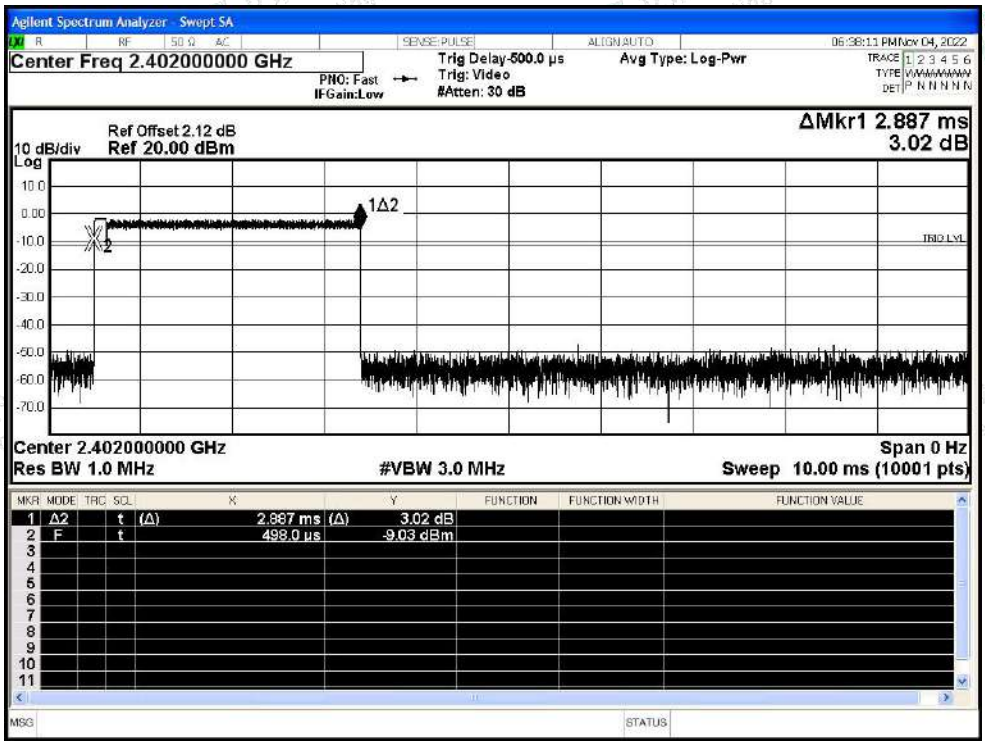
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



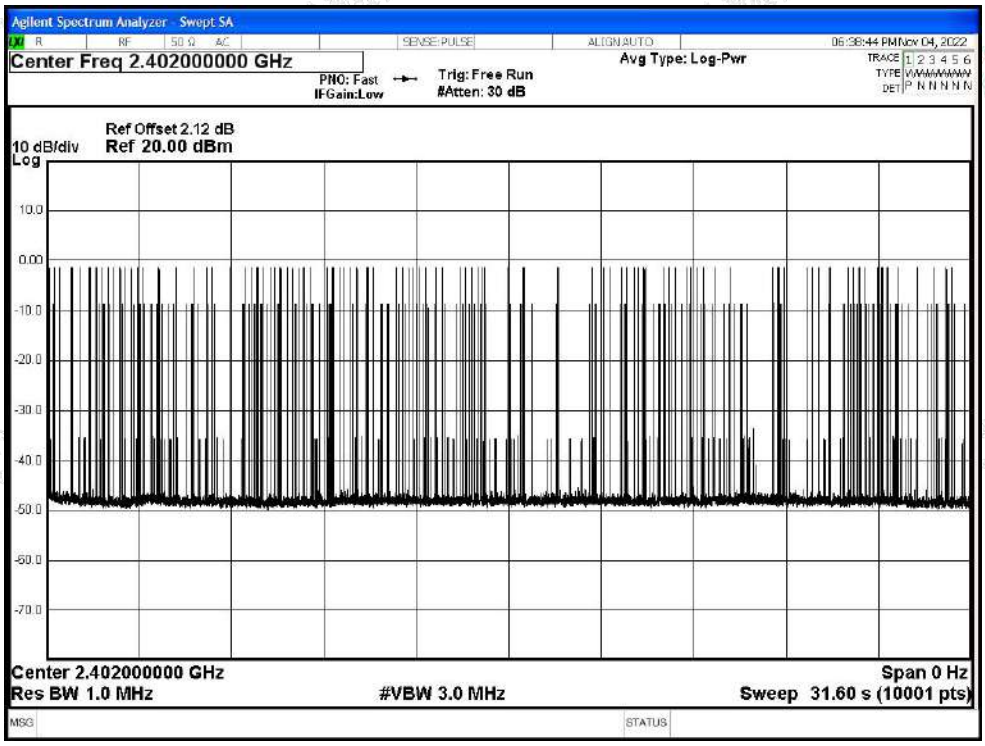
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

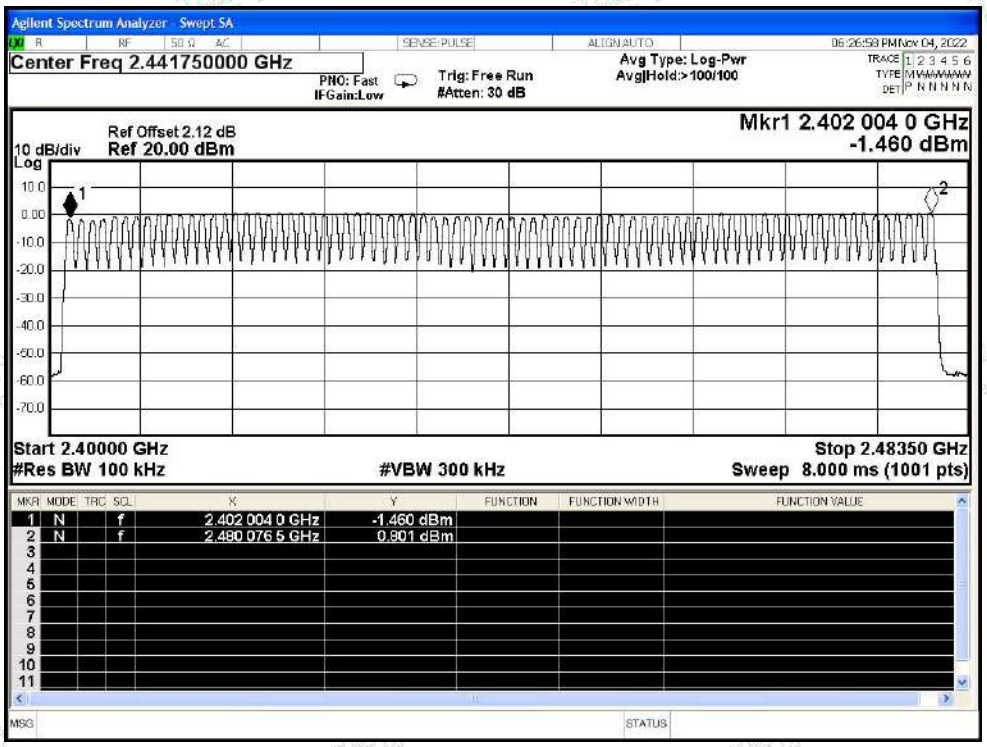


A.5 Number of Hopping Channel

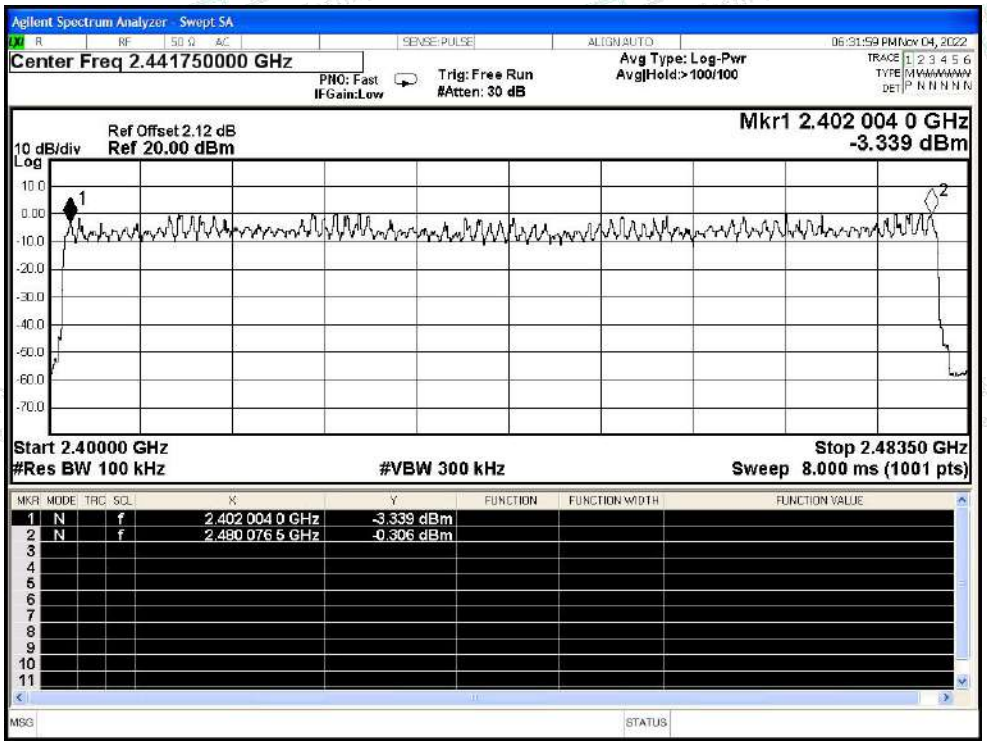
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

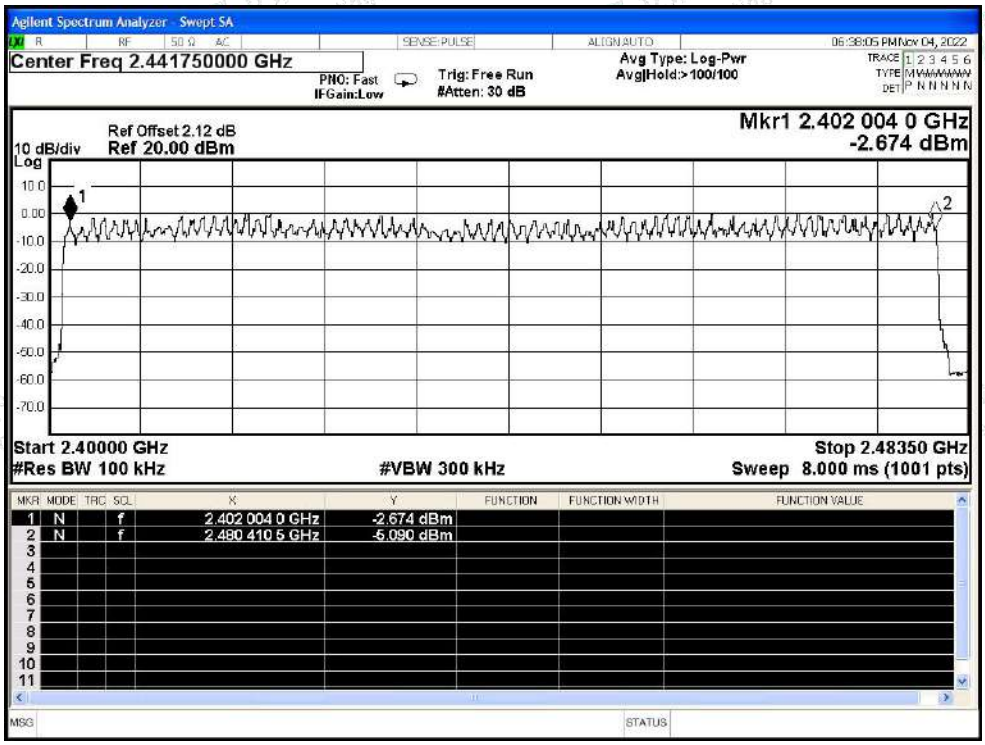
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

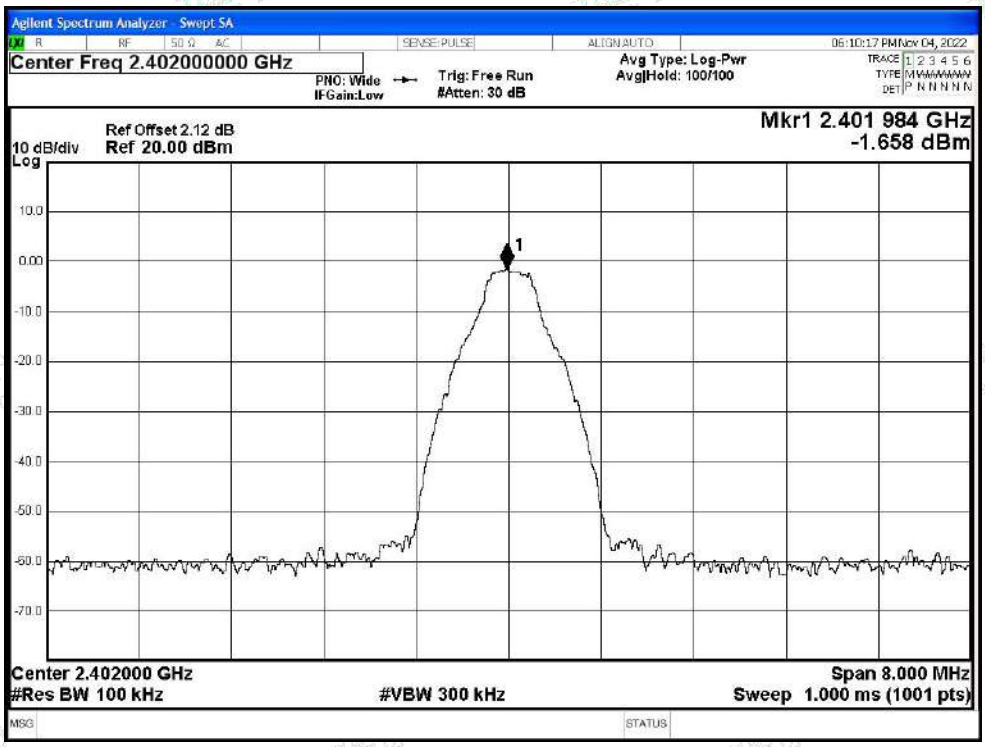


A.6 Band Edge

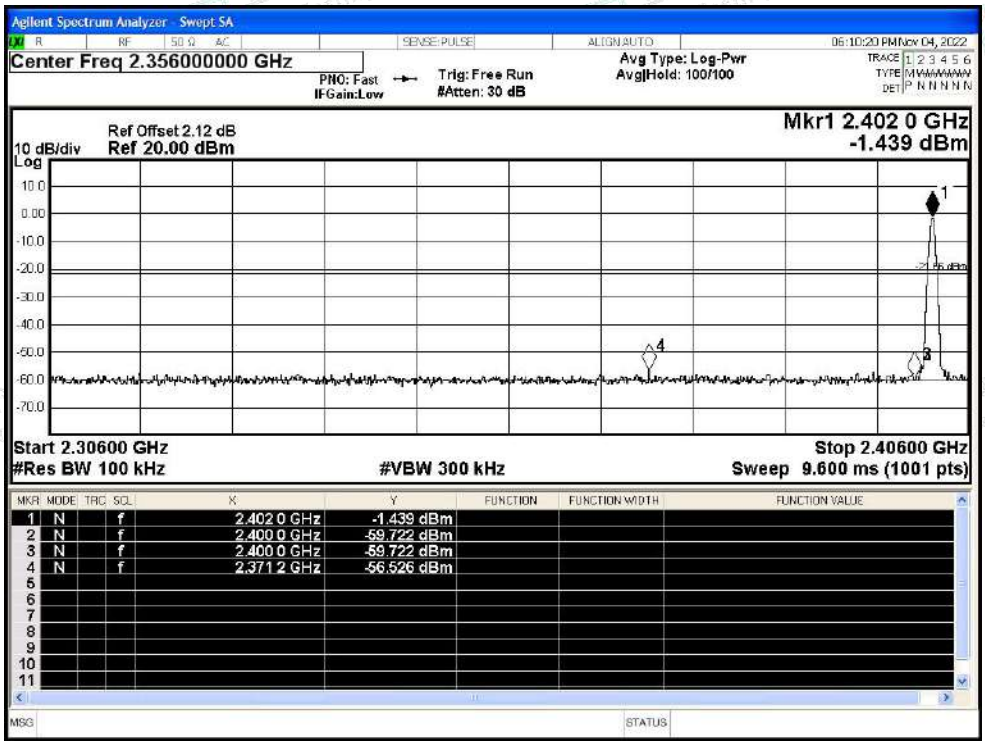
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.87	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.01	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.03	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.53	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.27	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.12	-20	Pass

Test Graphs

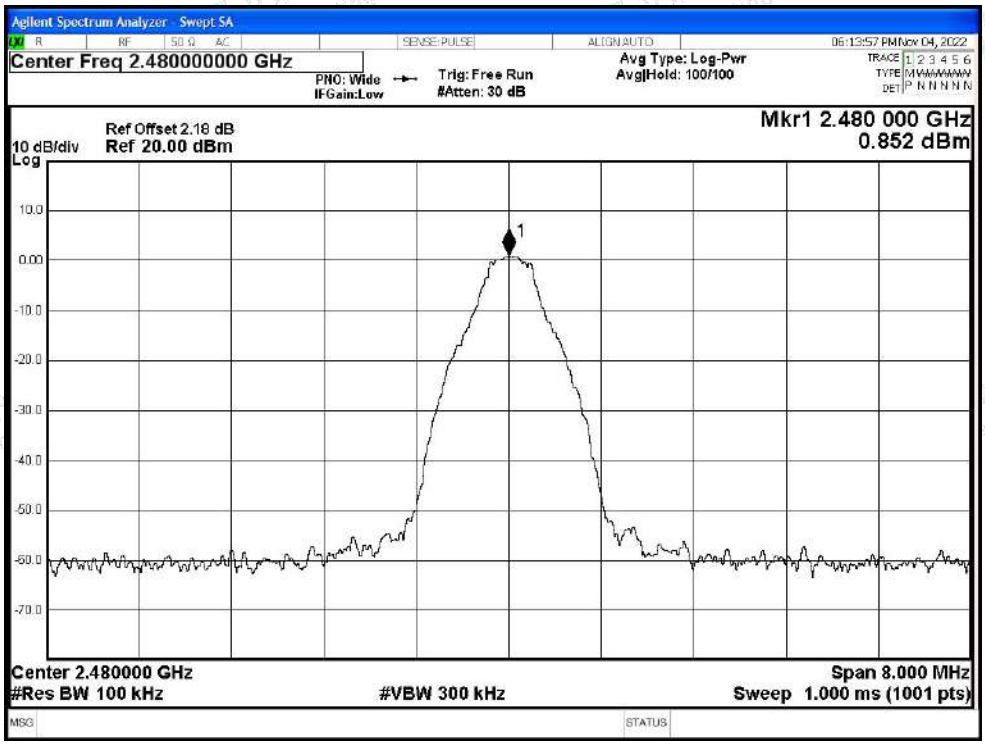
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



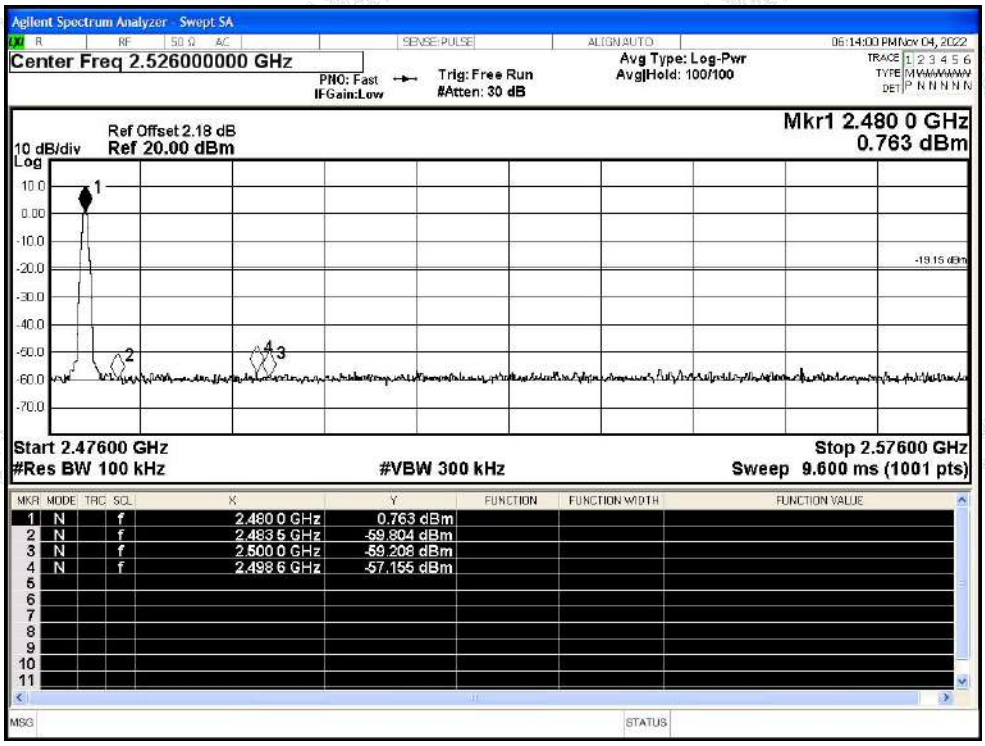
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



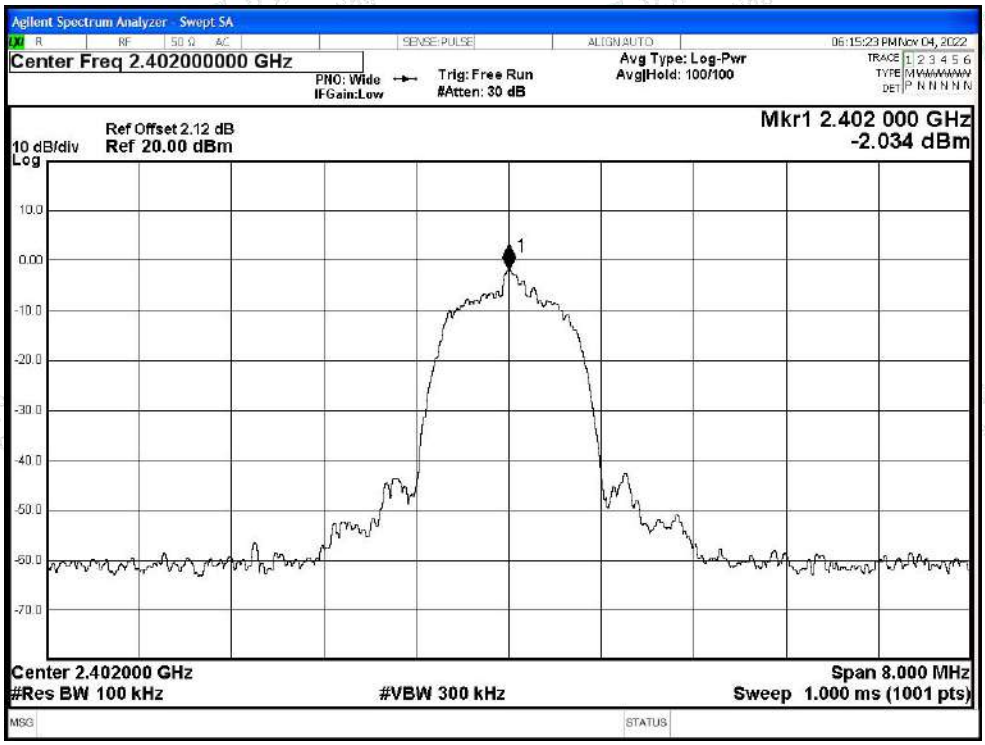
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



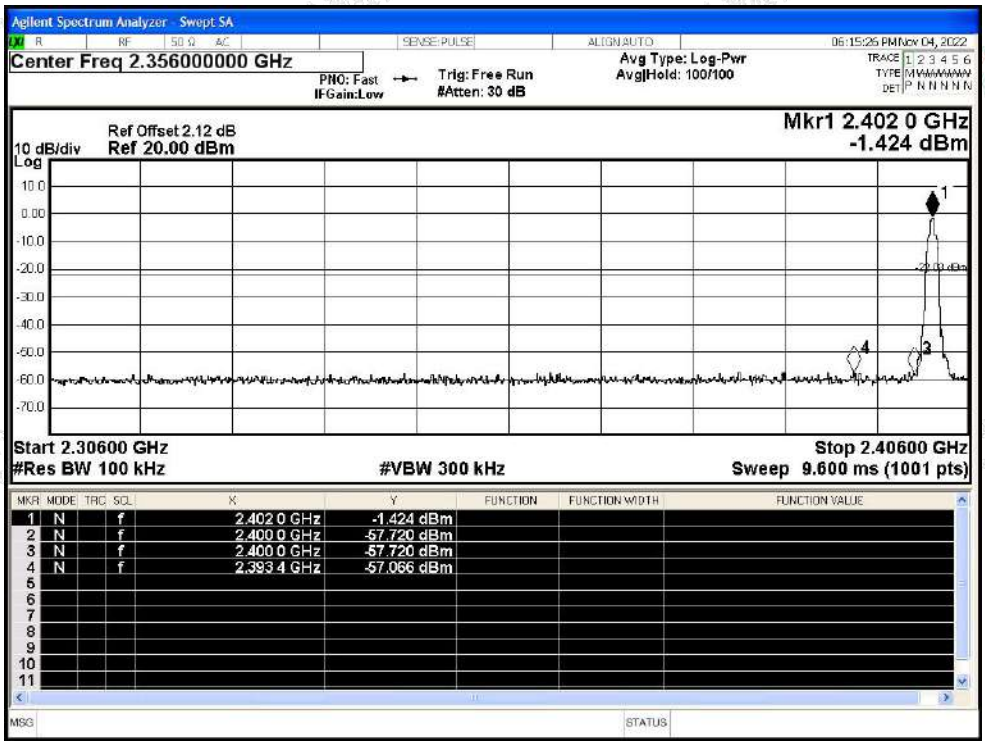
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



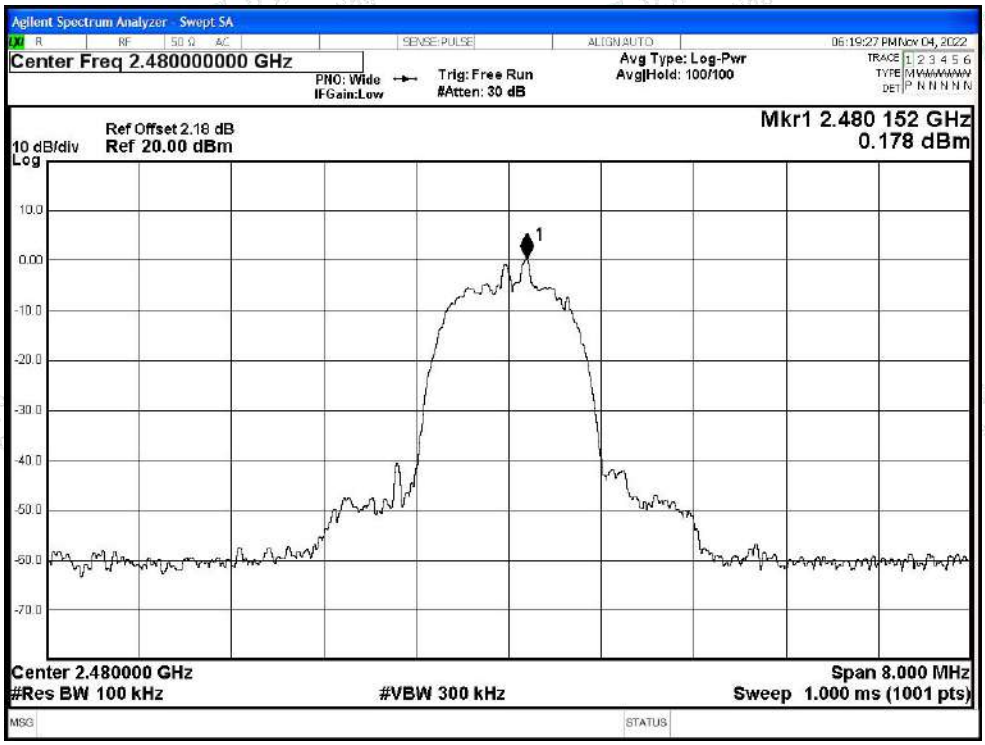
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



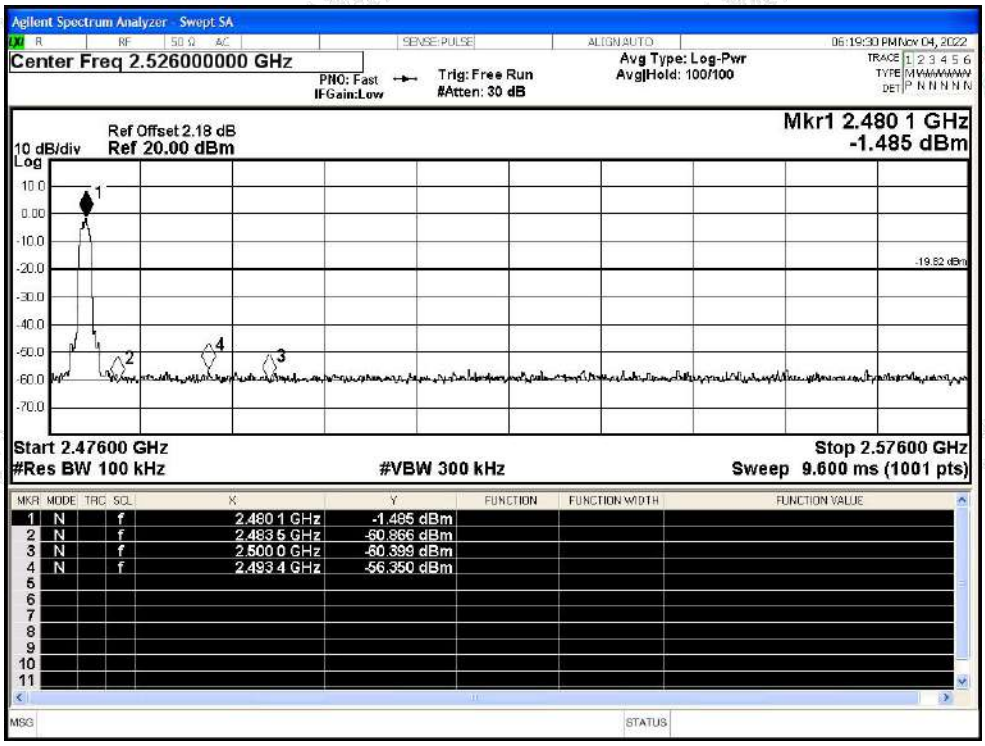
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



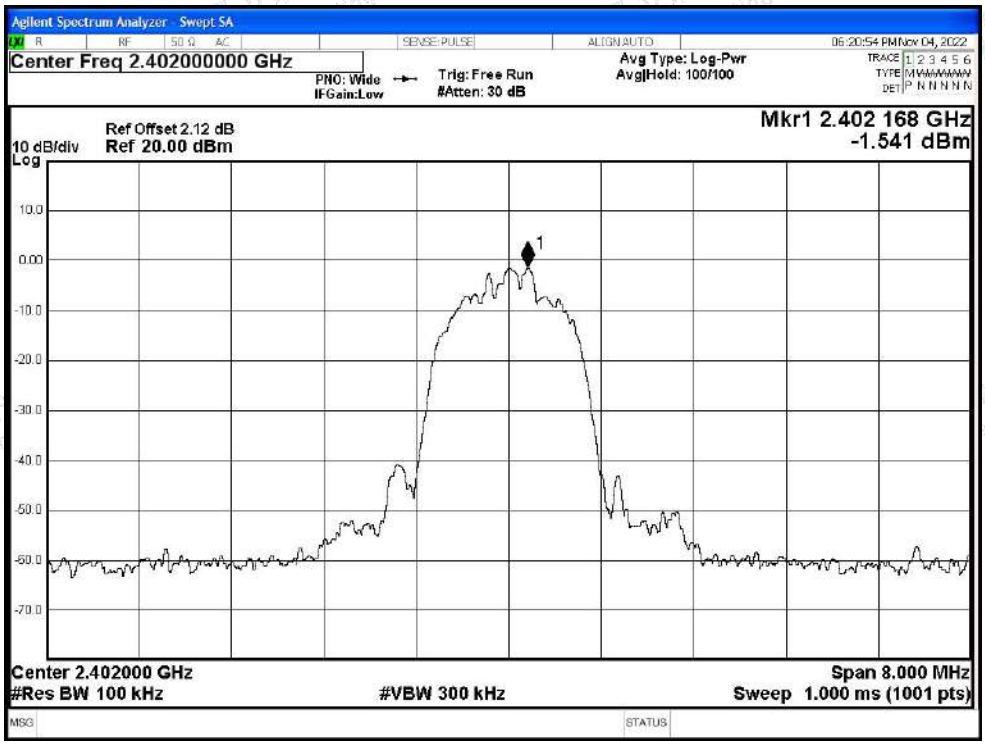
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



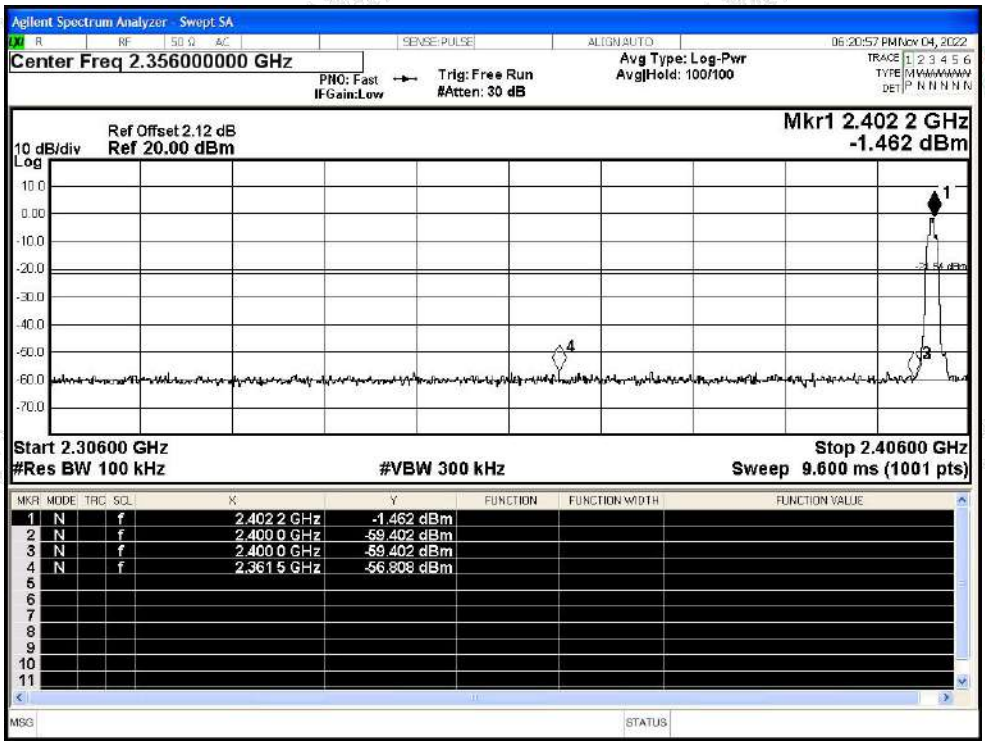
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



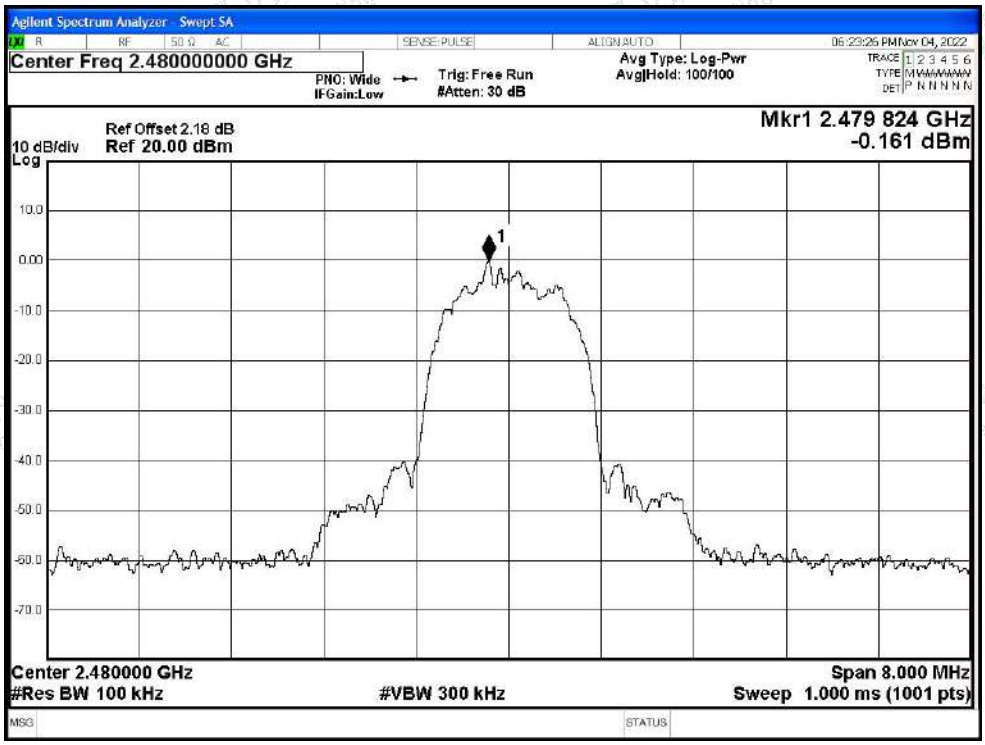
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



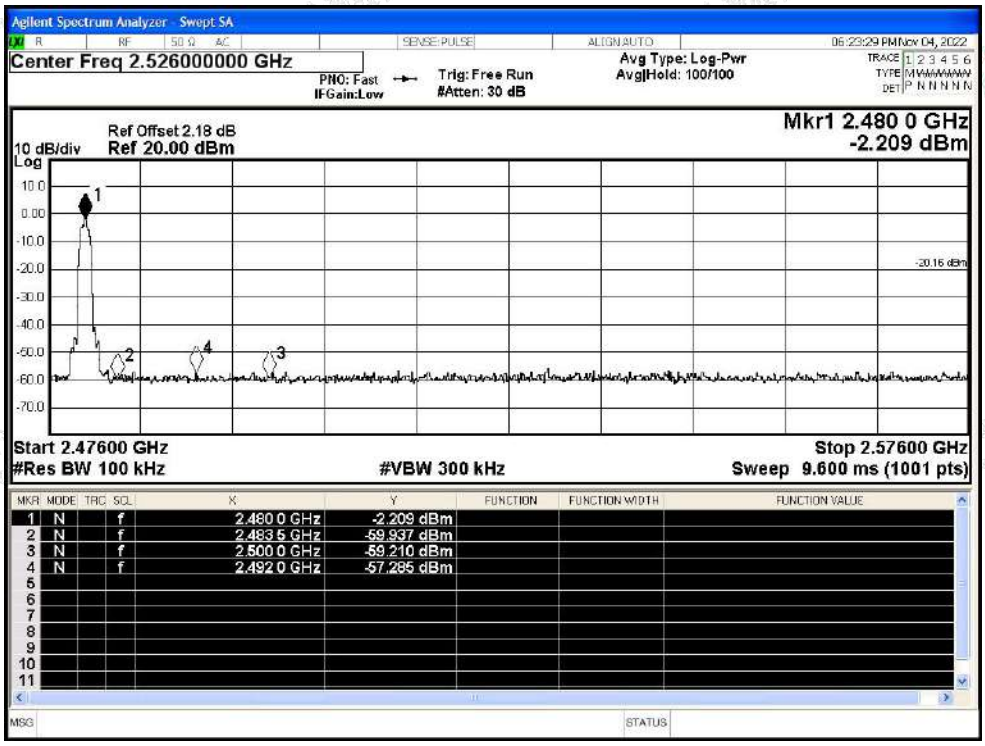
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

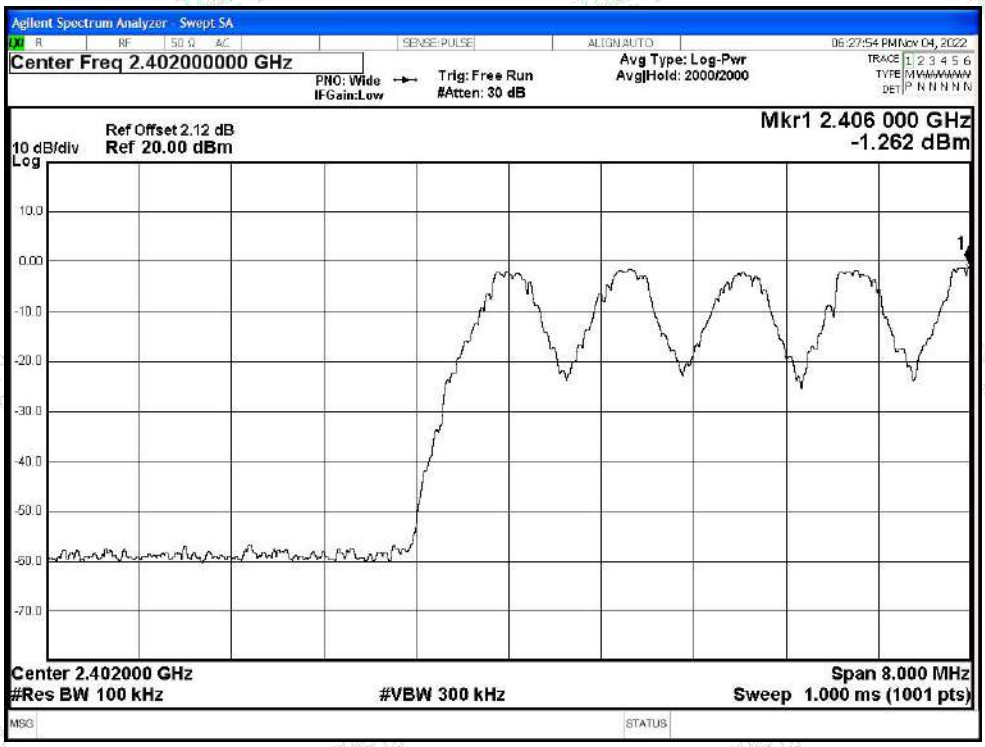


(Hopping)

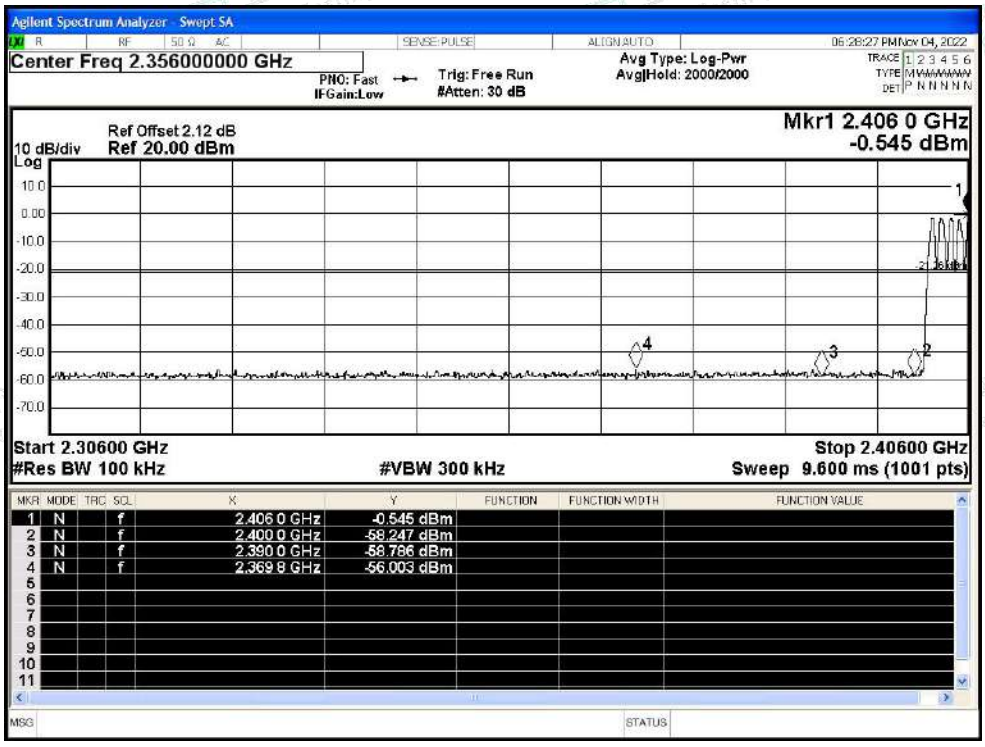
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.74	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.42	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.26	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.64	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.26	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.31	-20	Pass

Test Graphs

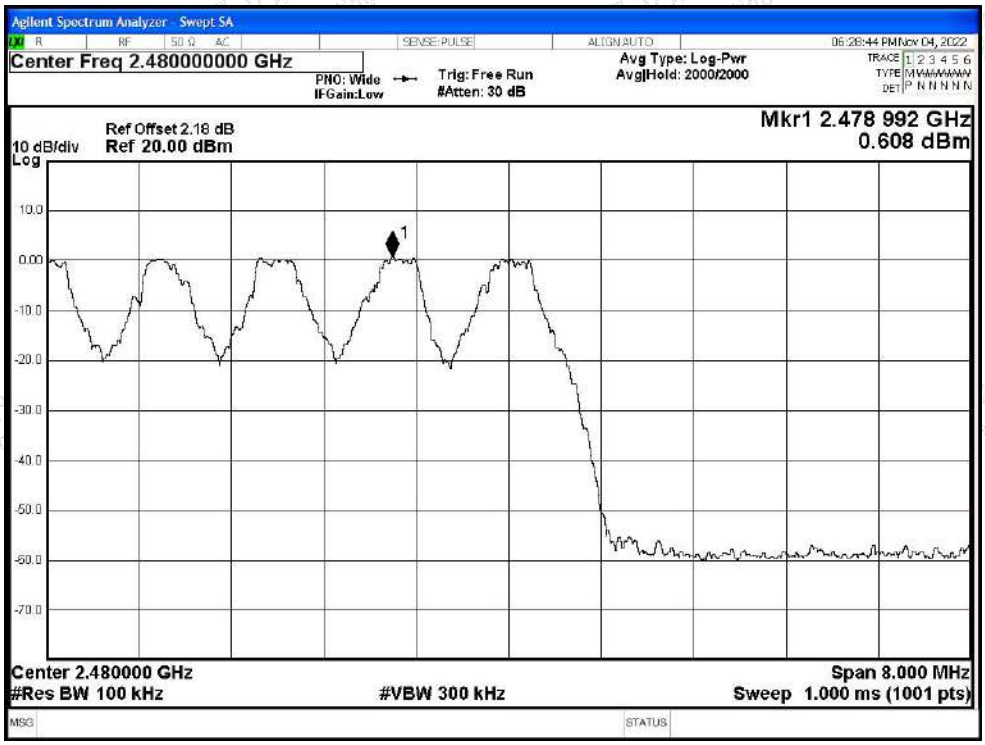
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



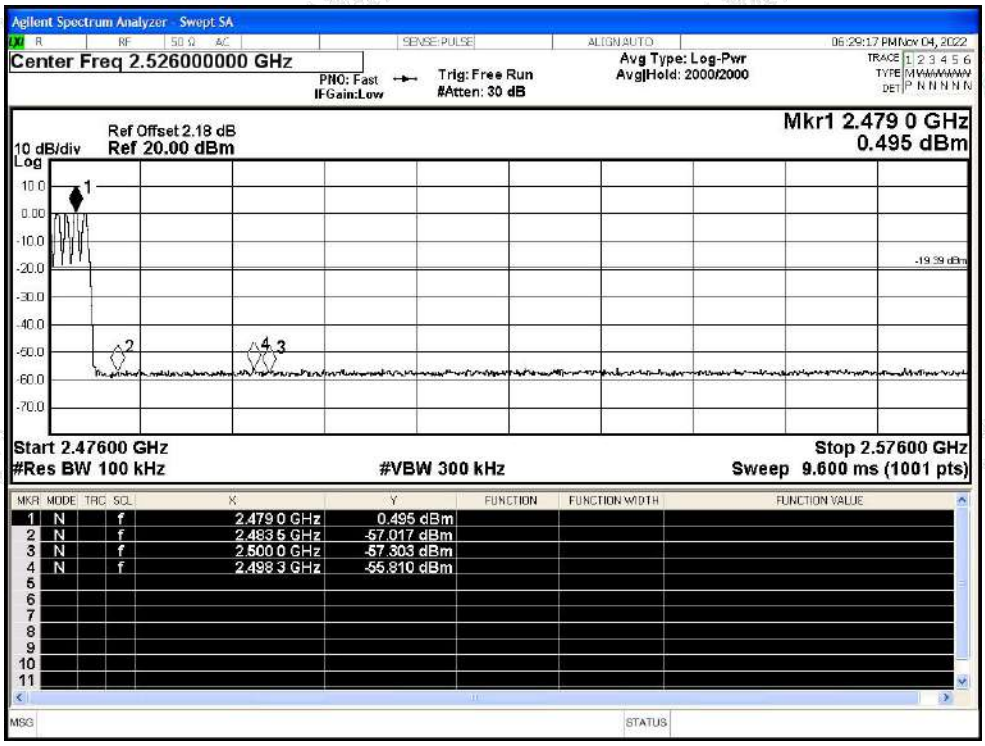
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



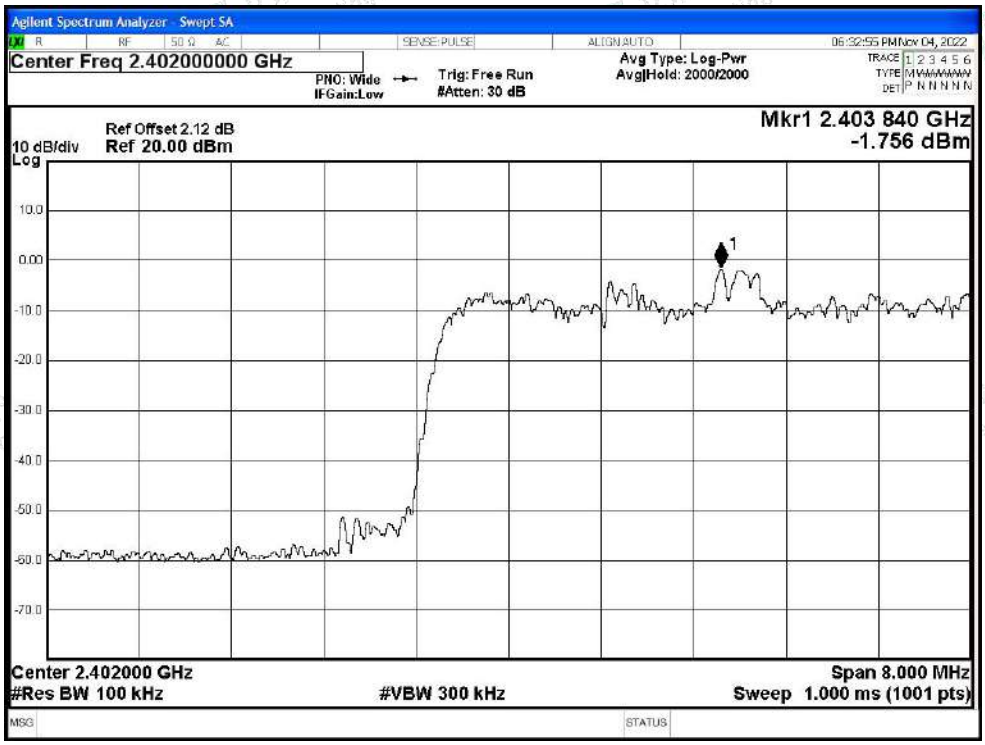
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



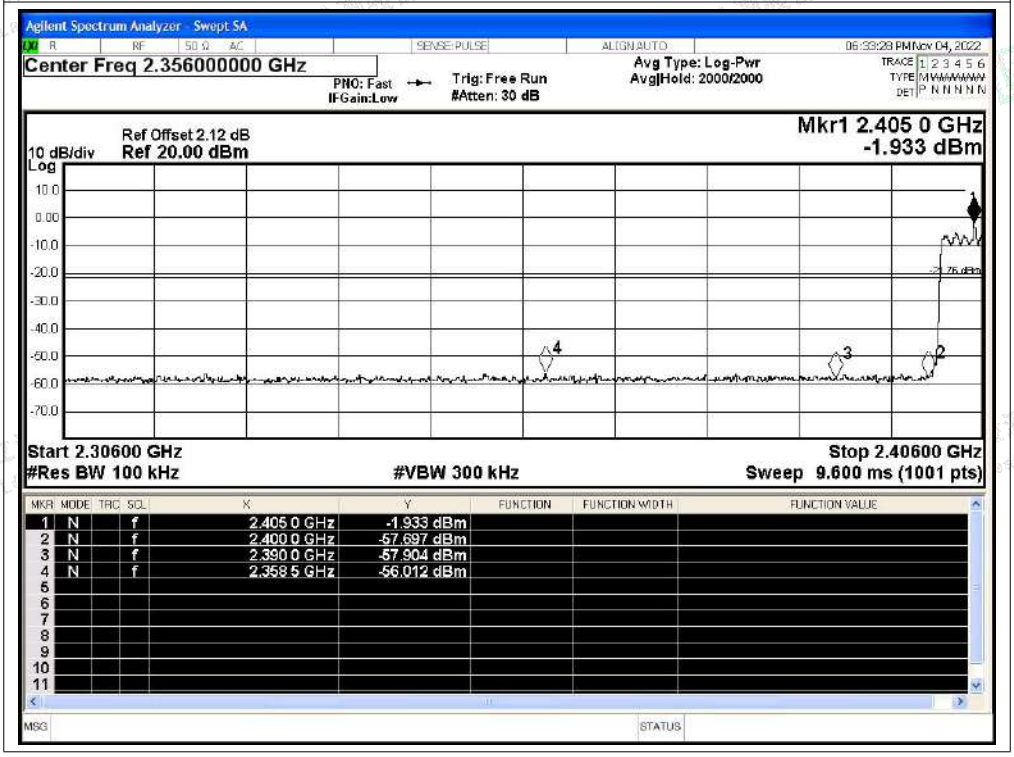
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



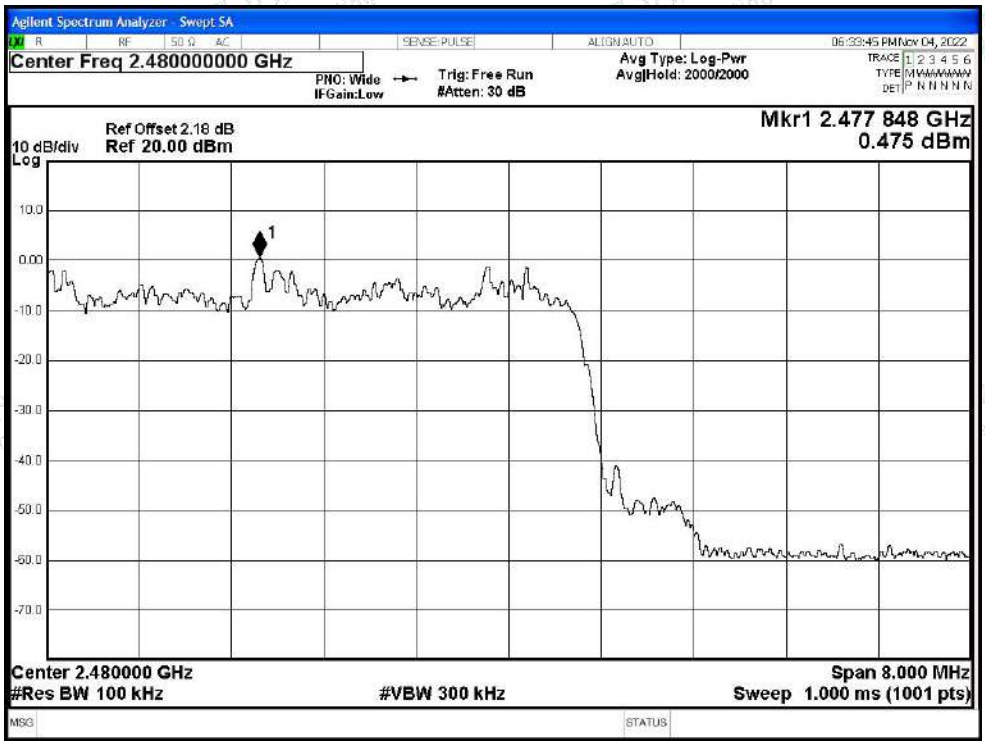
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



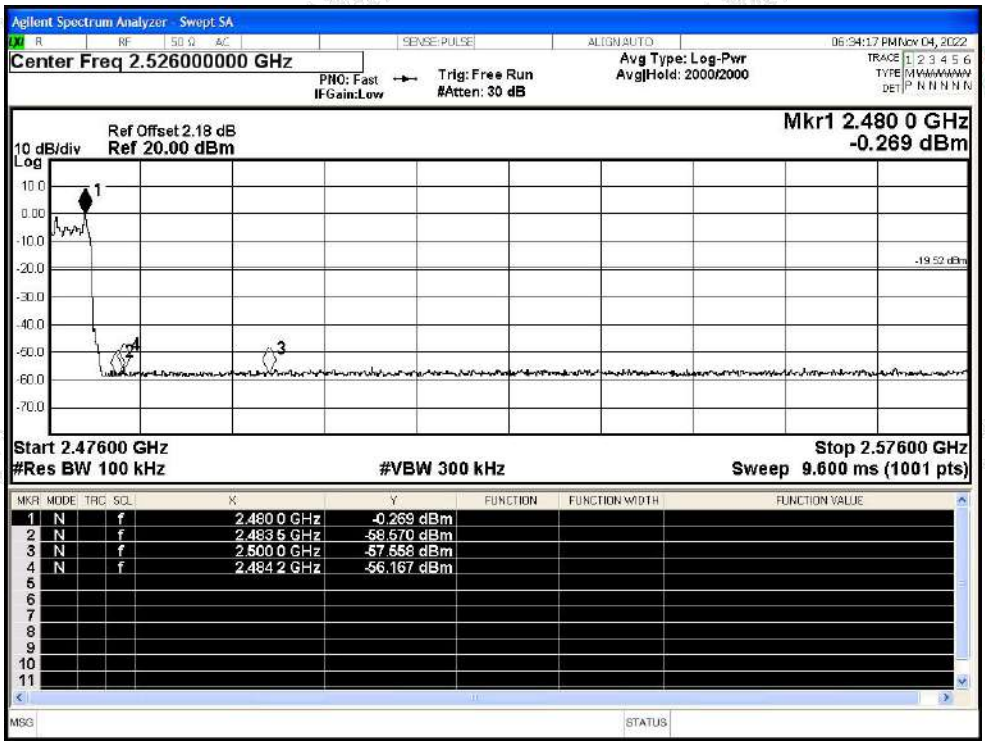
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



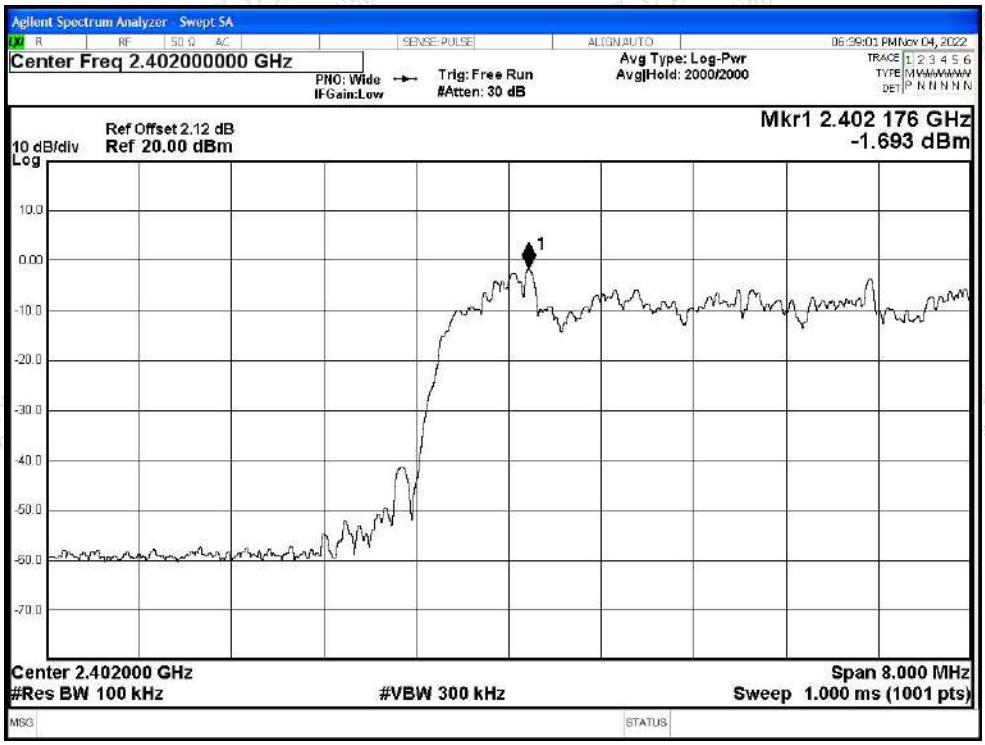
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



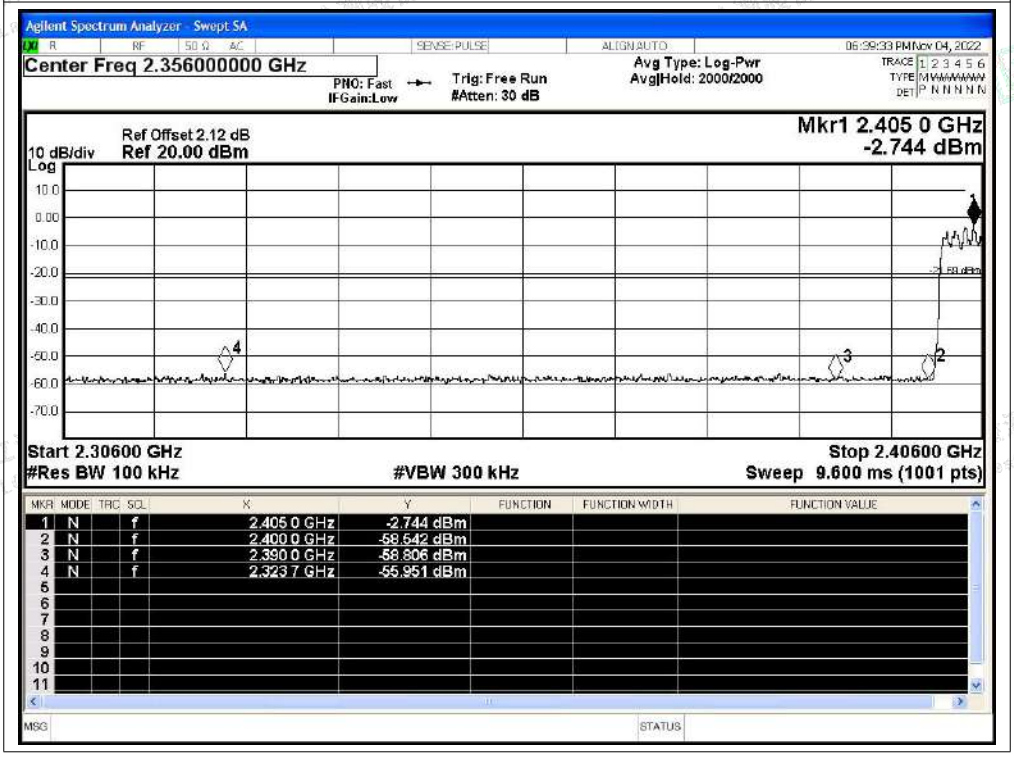
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



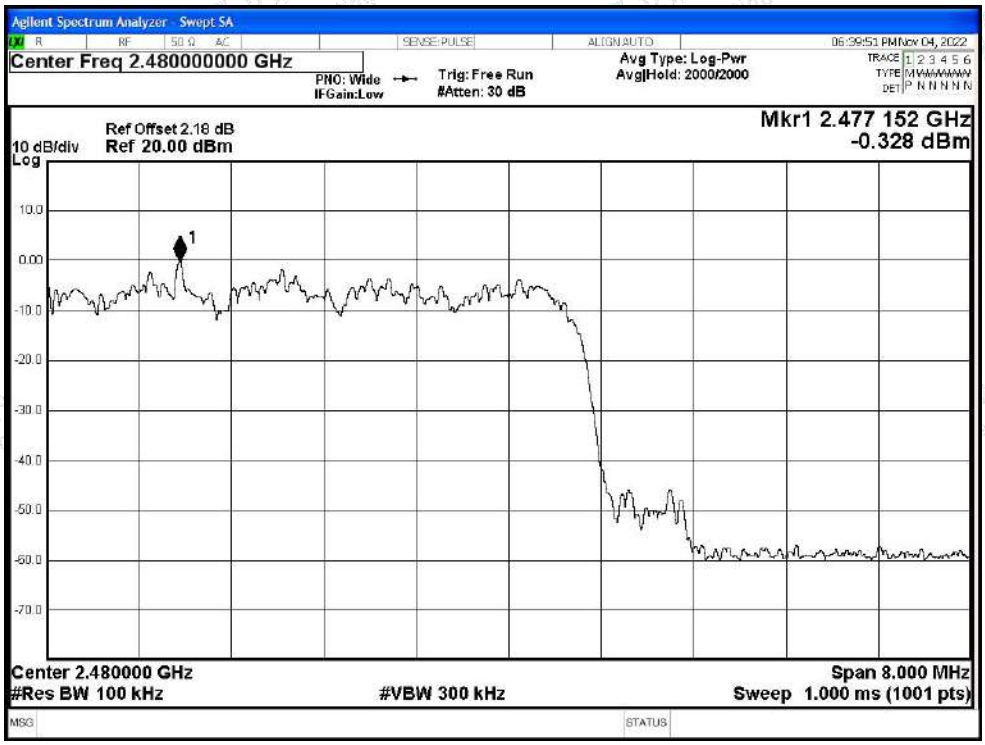
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



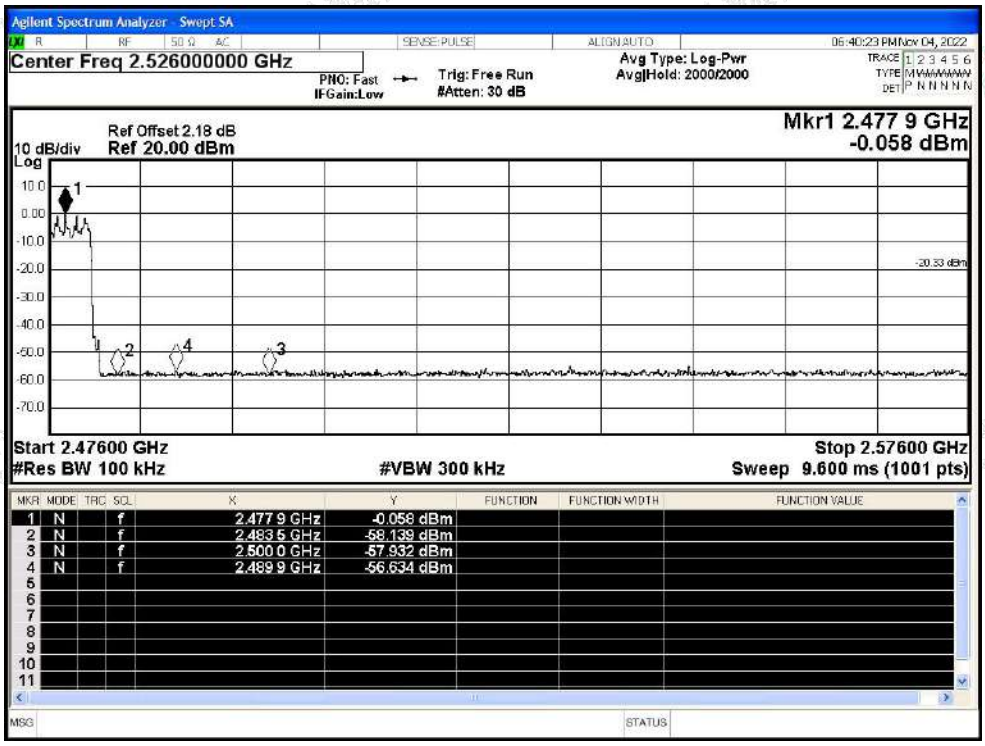
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

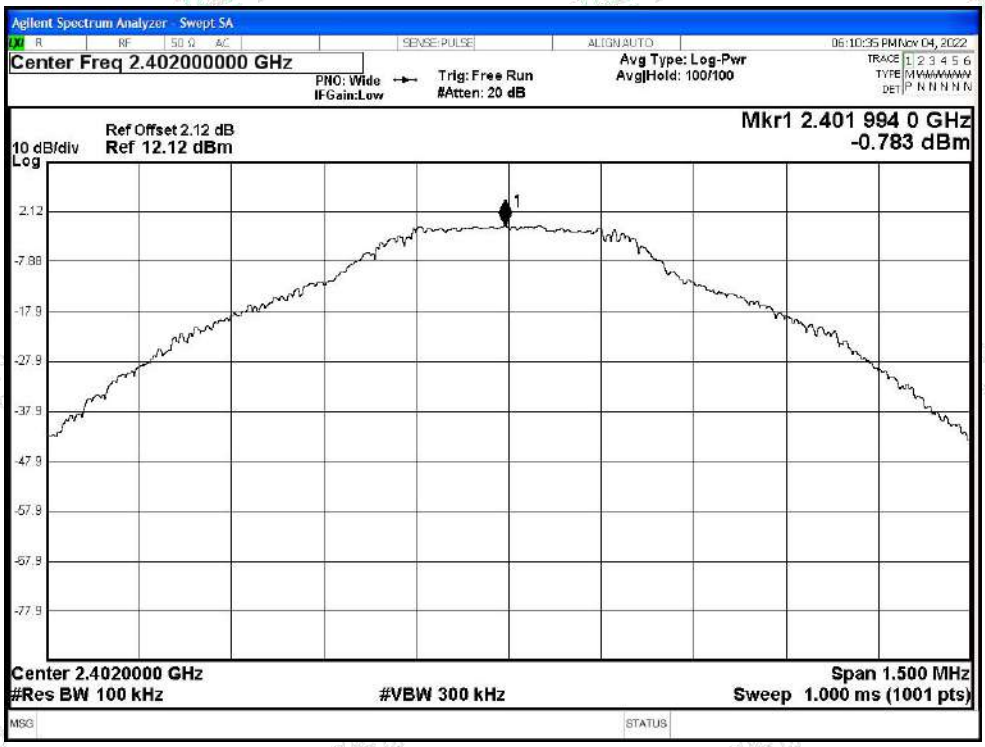


A.7 Conducted RF Spurious Emission

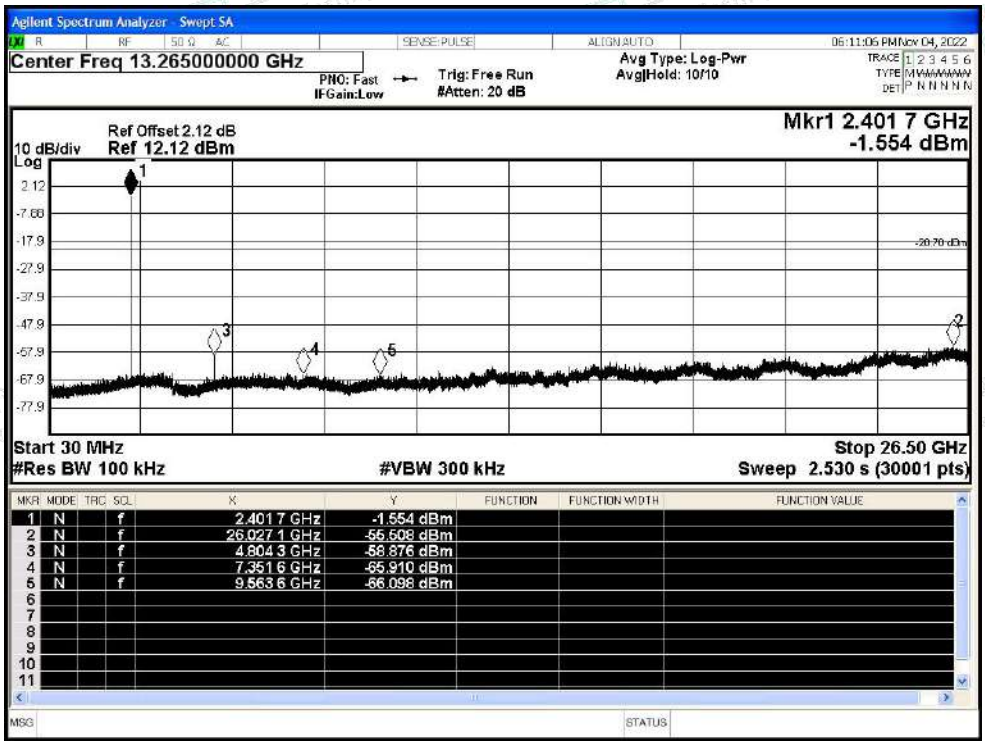
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.73	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.21	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.54	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.68	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.53	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.77	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.96	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.78	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.15	-20	Pass

Test Graphs

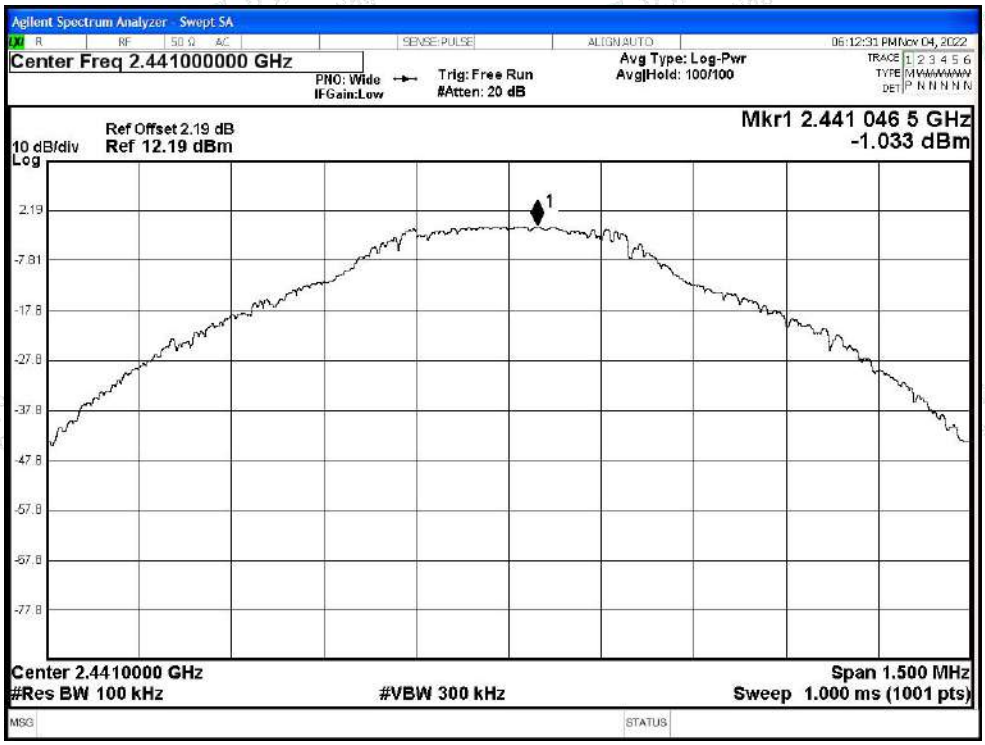
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



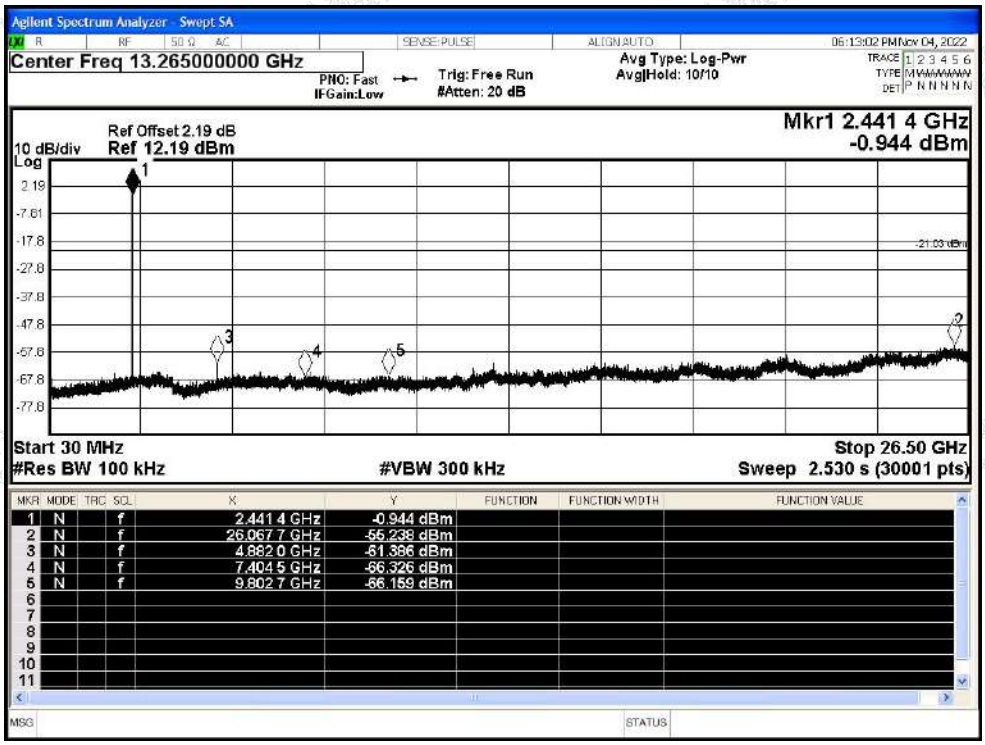
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



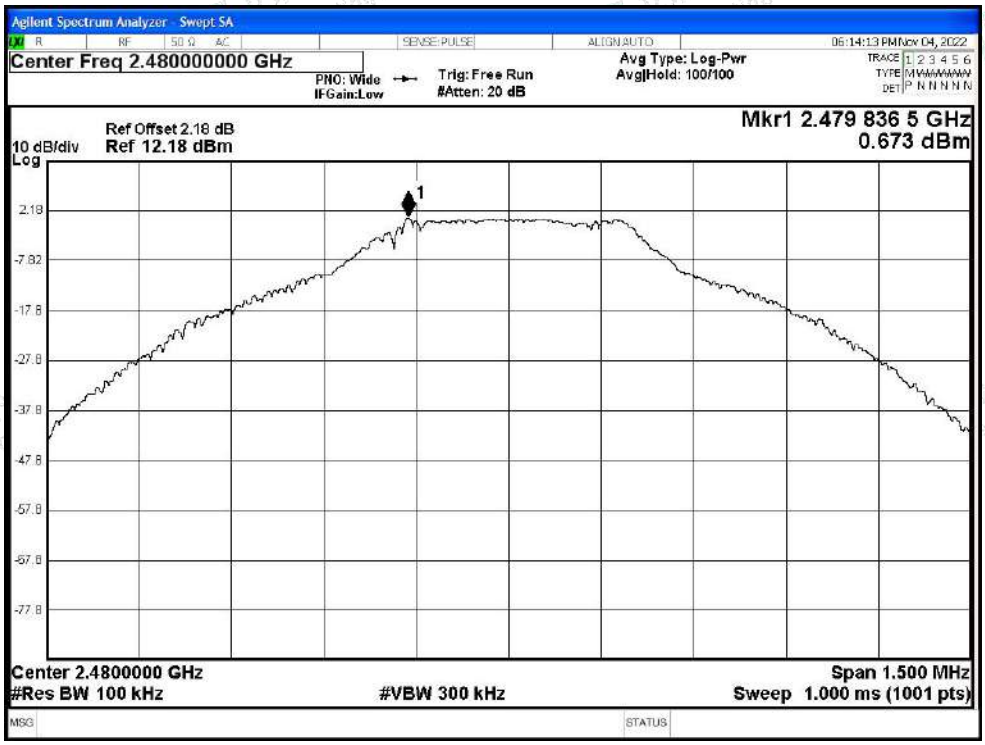
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



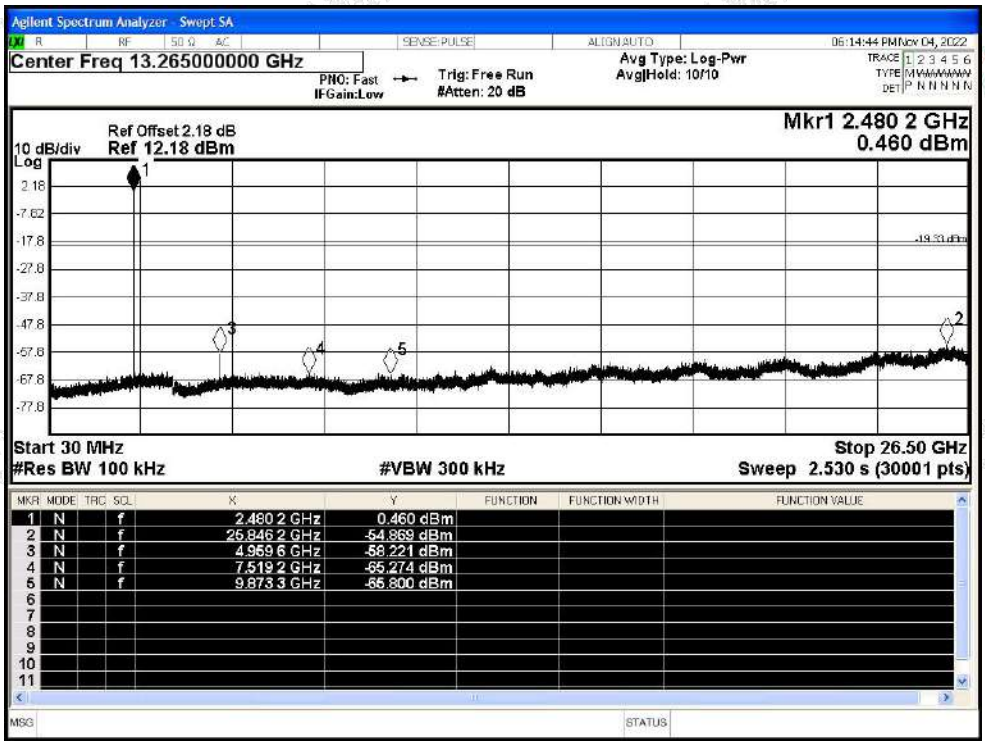
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



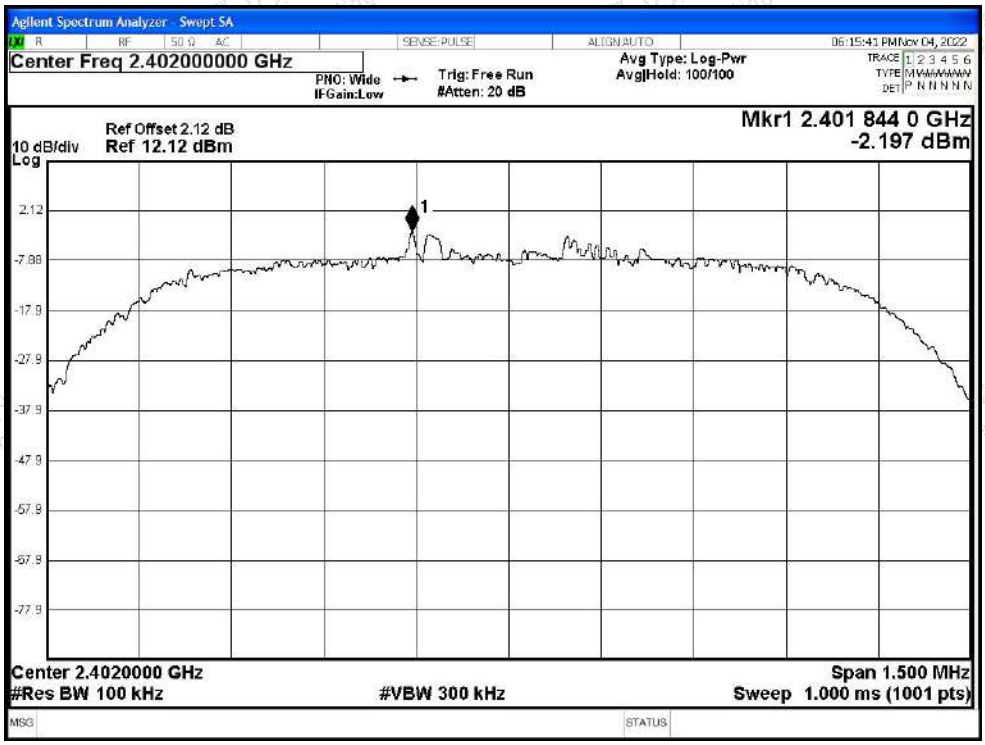
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



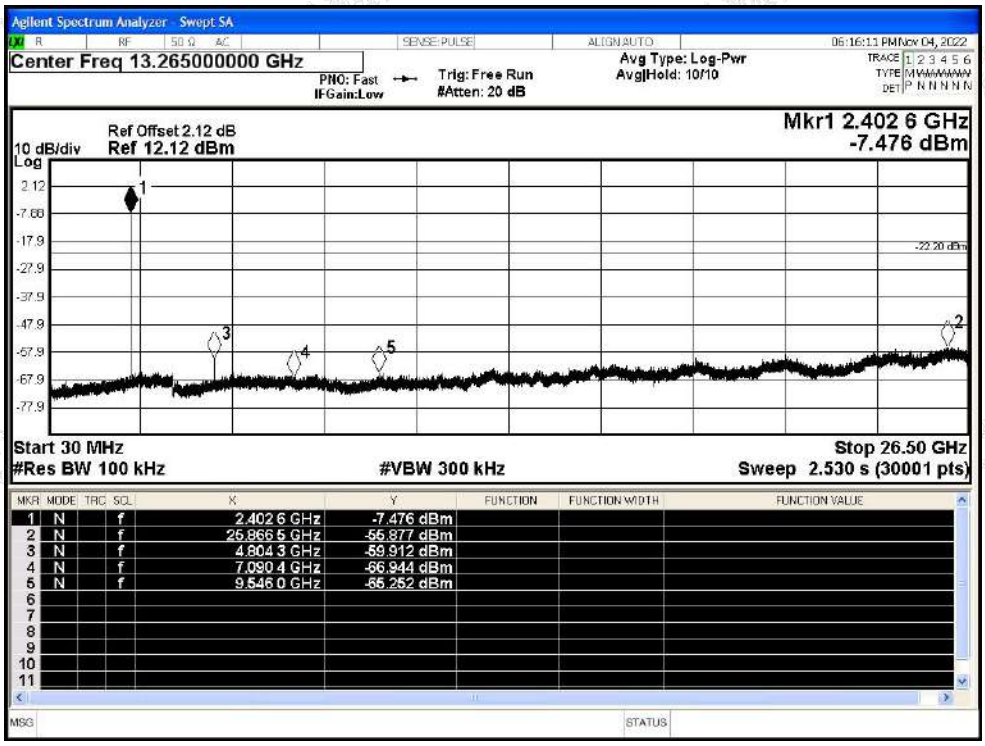
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



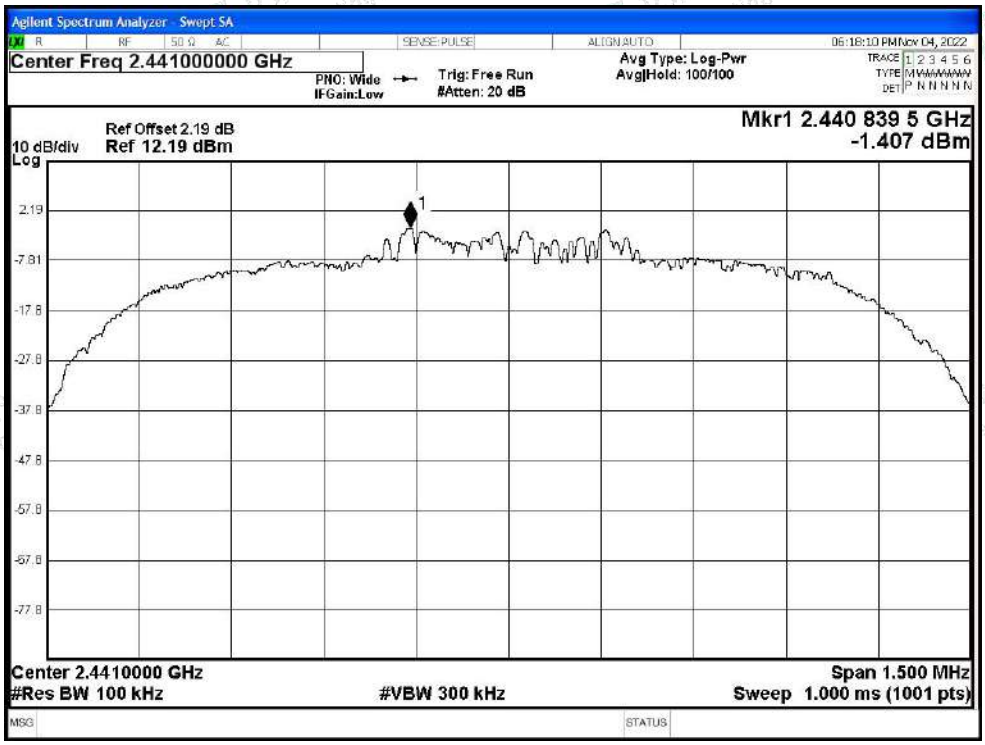
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



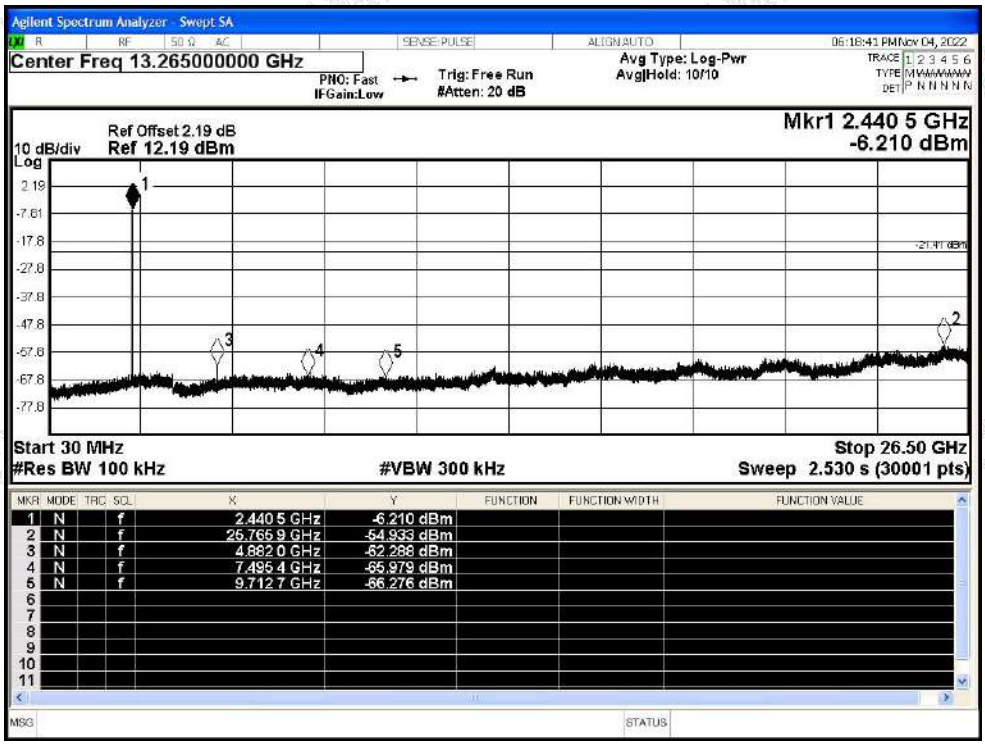
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



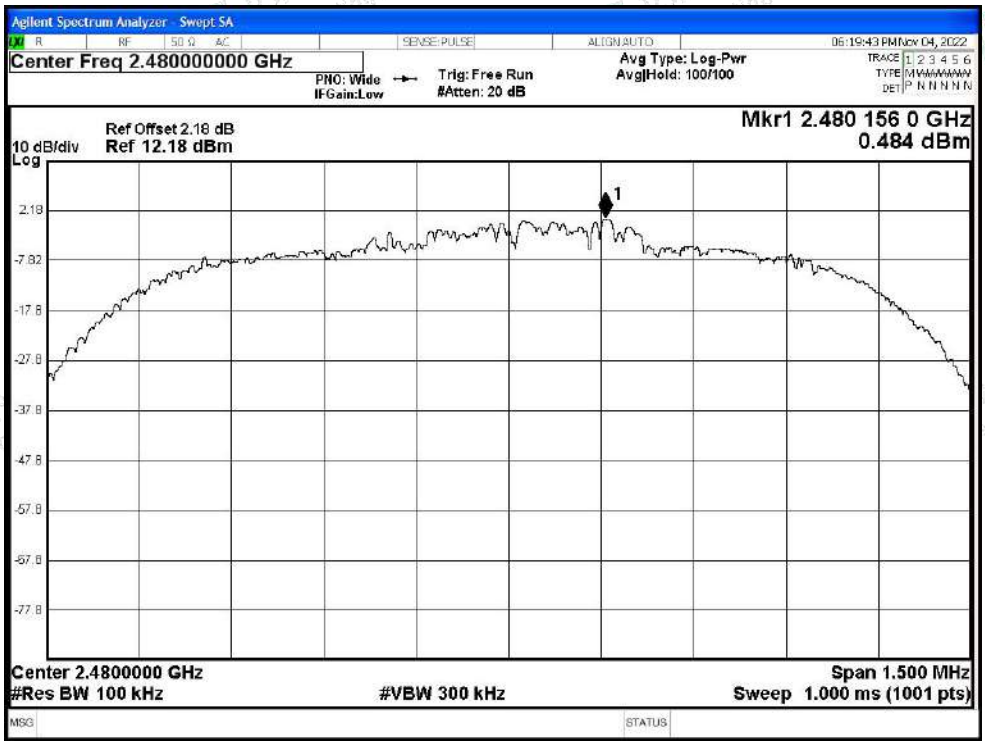
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



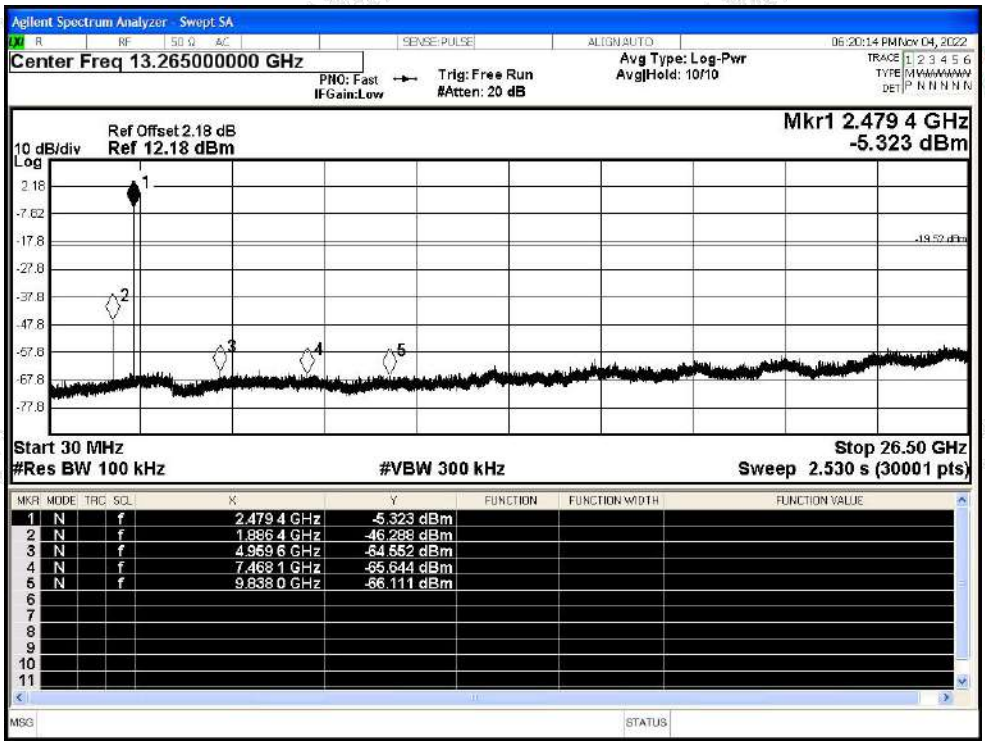
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



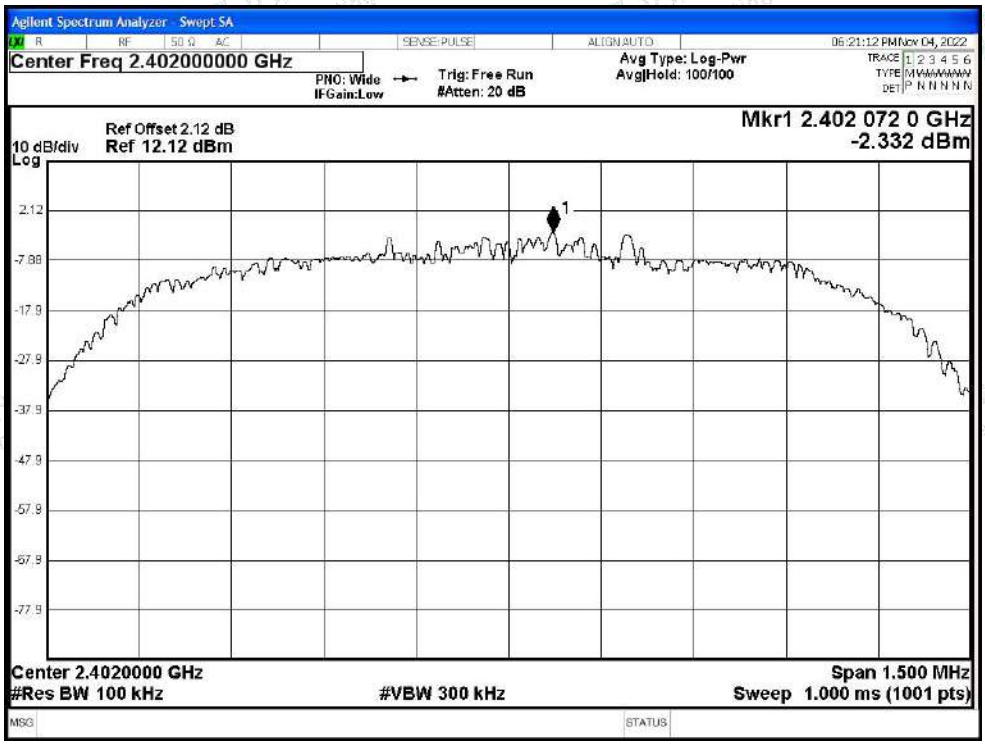
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



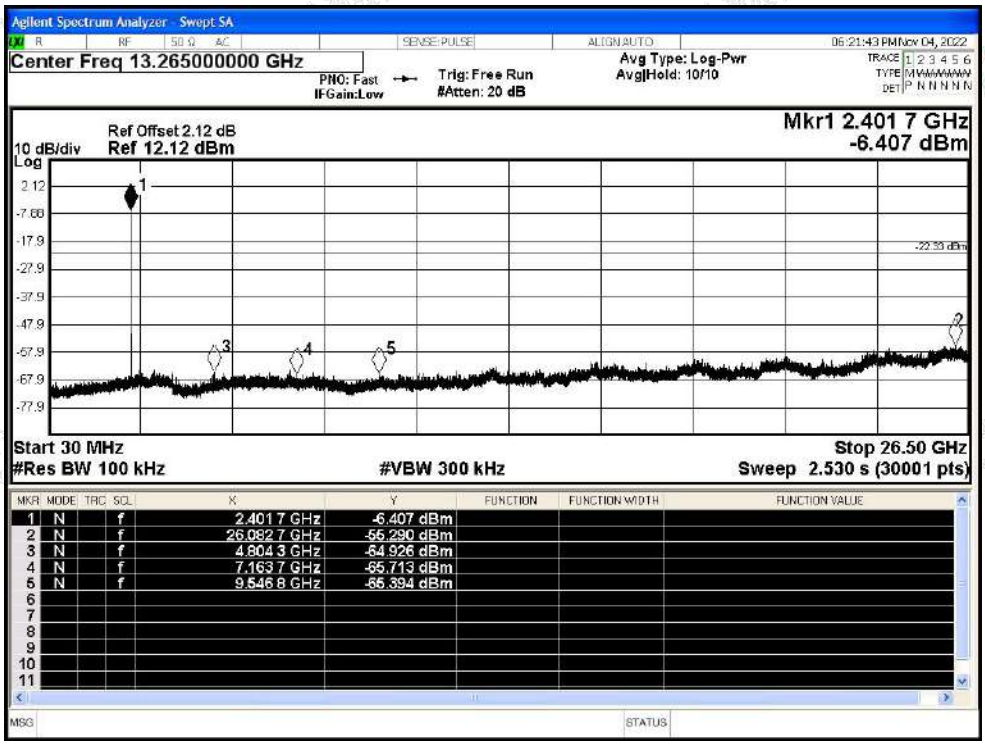
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



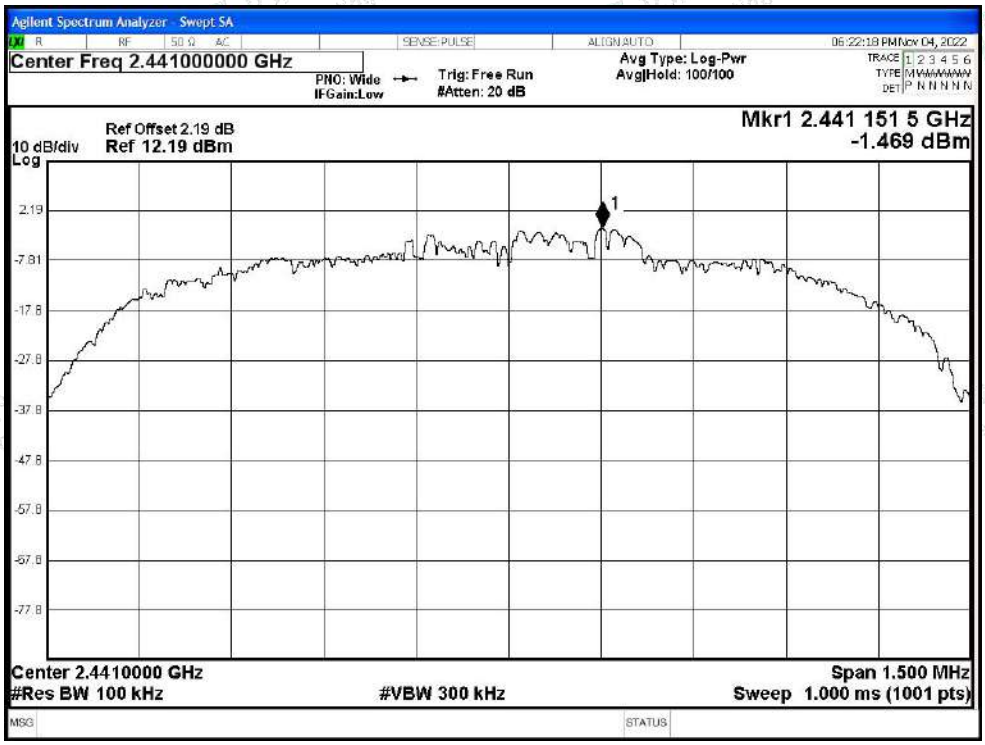
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



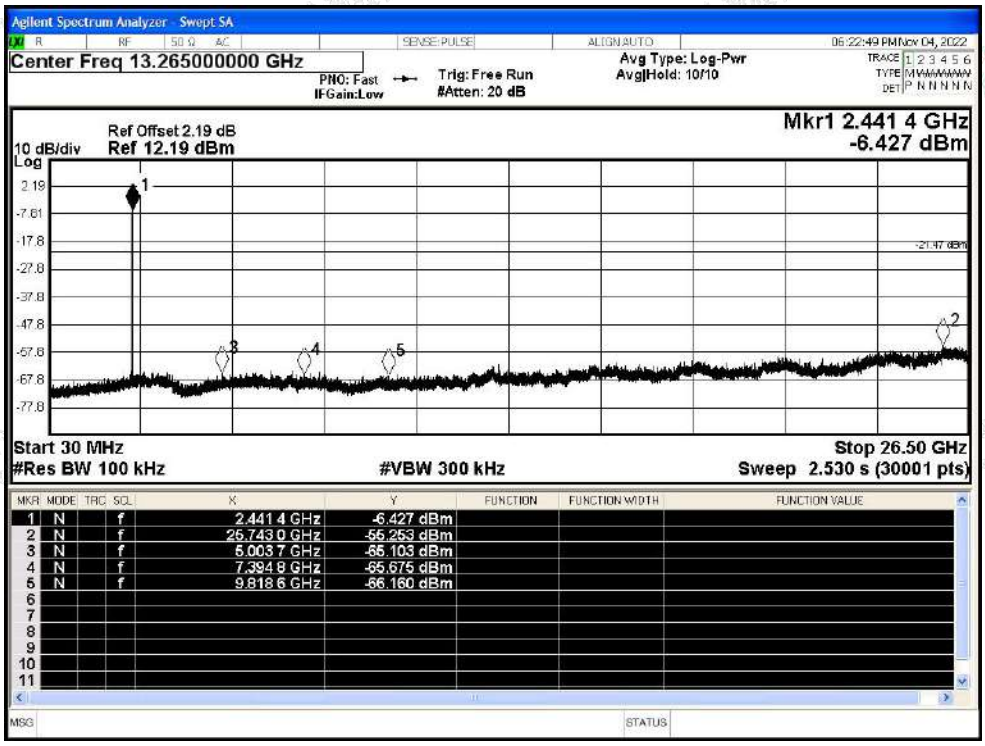
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



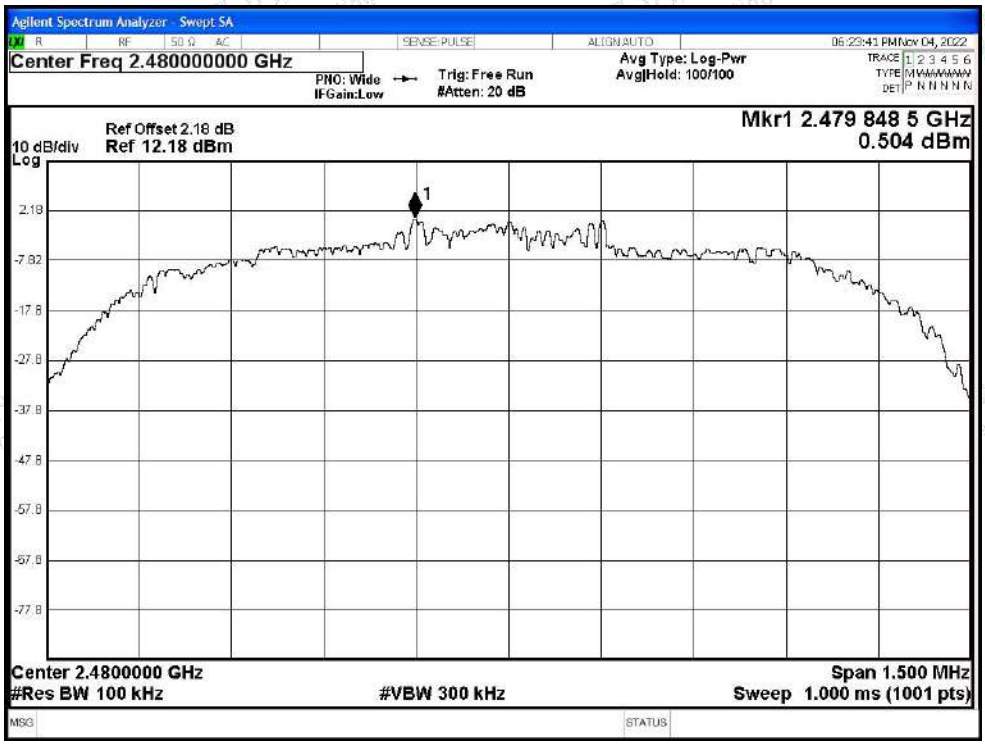
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



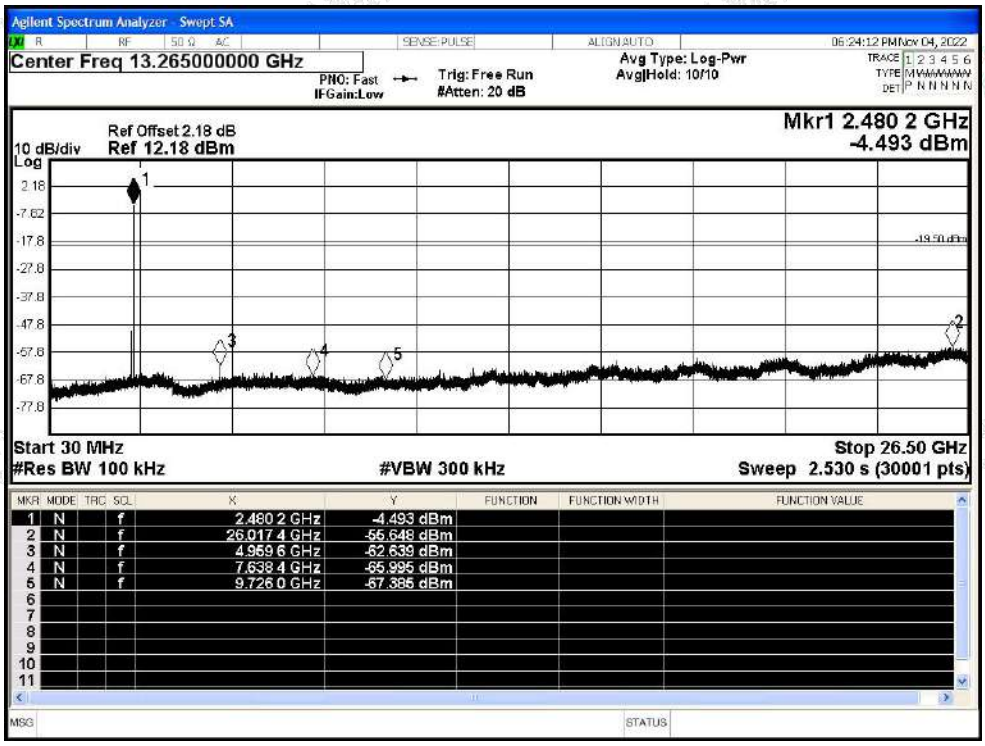
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

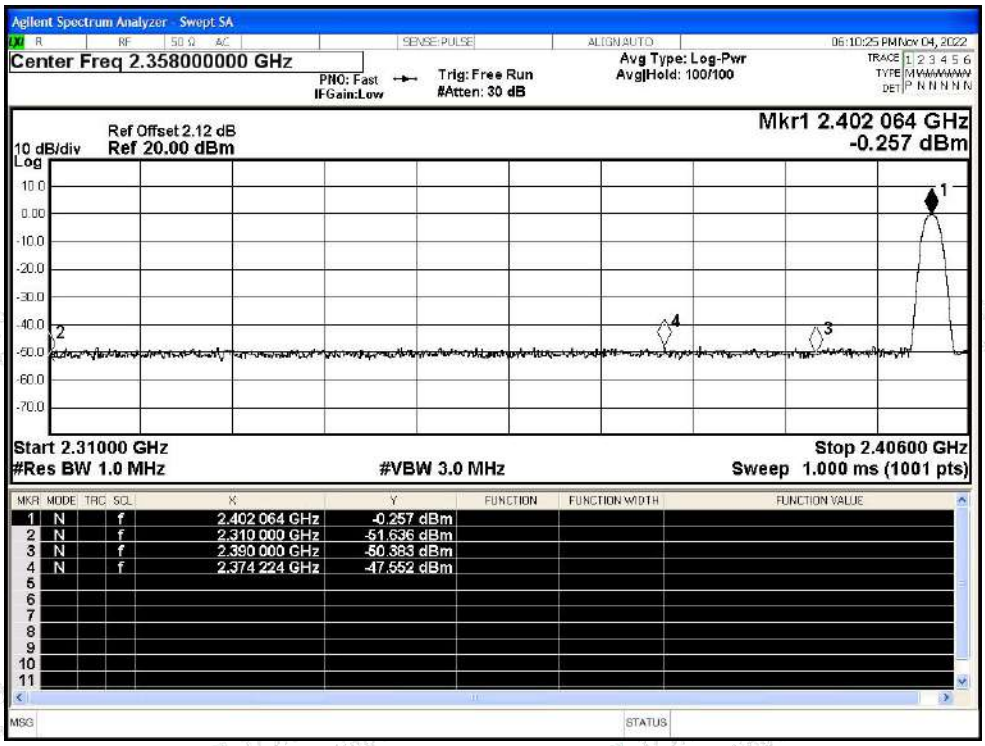


A.8 Restrict Band

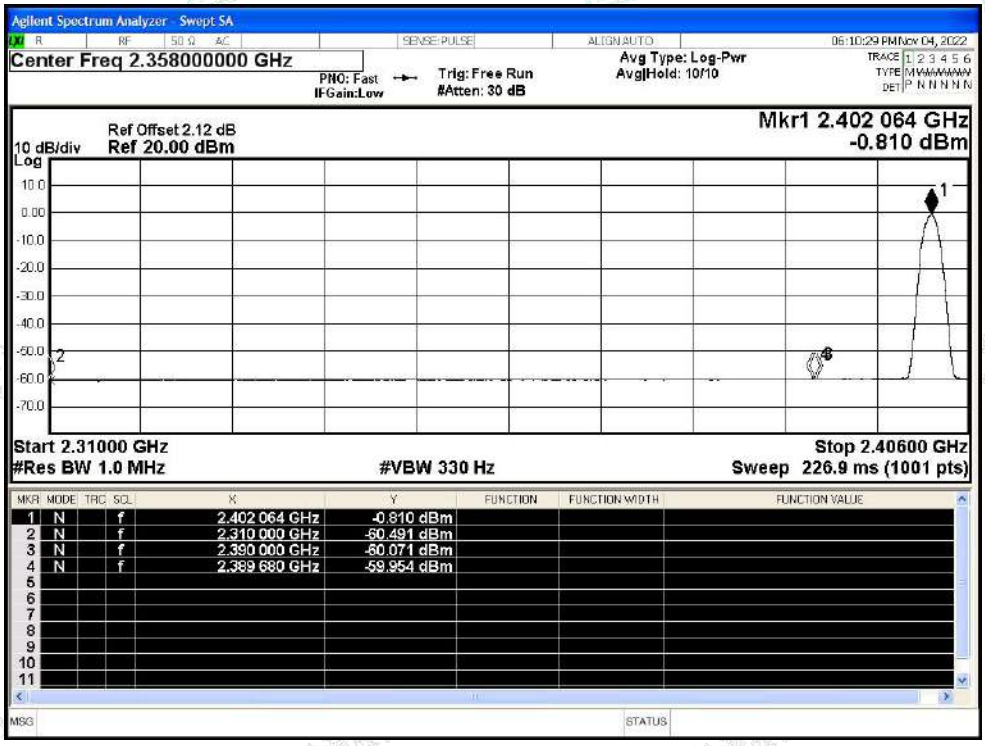
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.64	2	45.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.49	2	36.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2374.224	-47.55	2	49.71	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.68	-59.95	2	37.31	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.38	2	46.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.07	2	37.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.03	2	47.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.6	2	37.66	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.624	-47.45	2	49.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.992	-59.47	2	37.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.06	2	46.2	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.8	2	37.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.03	2	46.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.39	2	36.87	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2357.808	-46.93	2	50.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.984	-59.9	2	37.36	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.64	2	48.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.05	2	37.21	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.58	2	46.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.79	2	37.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.856	-47.08	2	50.18	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.92	-59.55	2	37.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.67	2	46.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.71	2	37.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.33	2	46.93	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.38	2	36.88	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2357.328	-47.65	2	49.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2383.152	-59.9	2	37.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.23	2	47.03	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.08	2	37.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.58	2	47.68	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.63	2	37.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.984	-46.05	2	51.21	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.624	-59.52	2	37.74	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.86	2	47.4	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.8	2	37.46	Average	54	Pass

Test Graphs

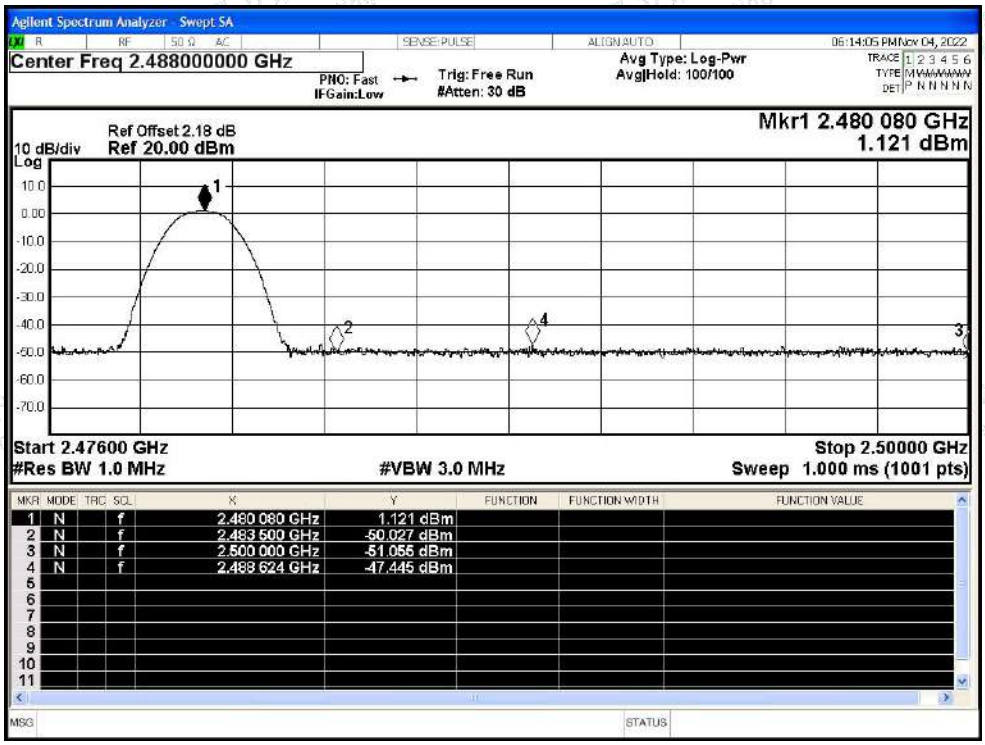
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



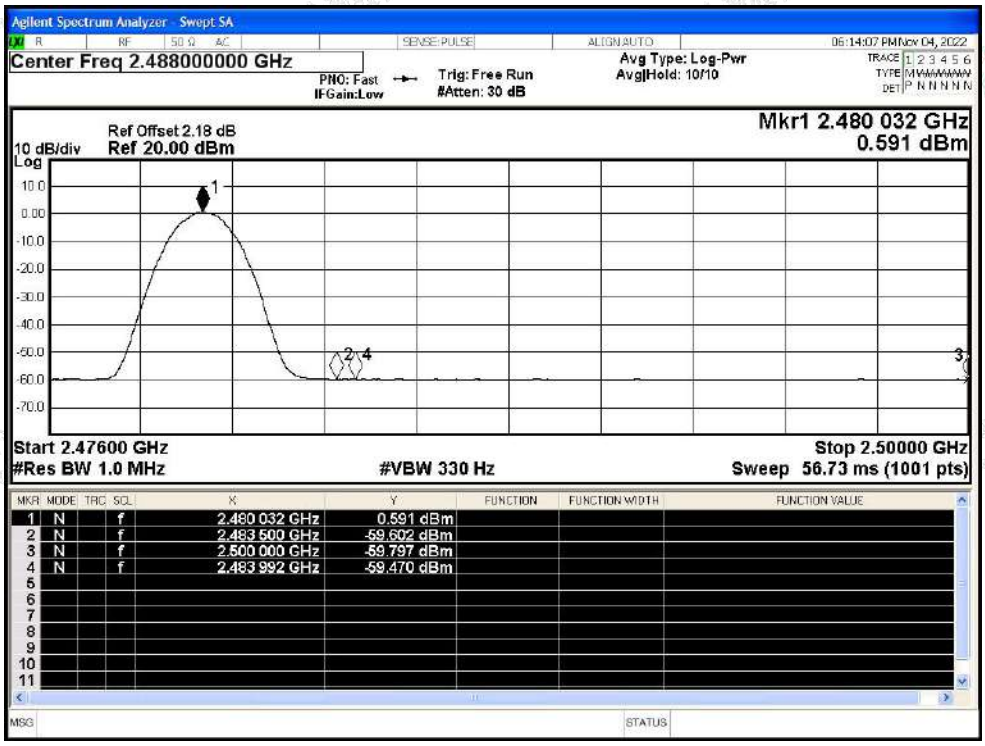
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



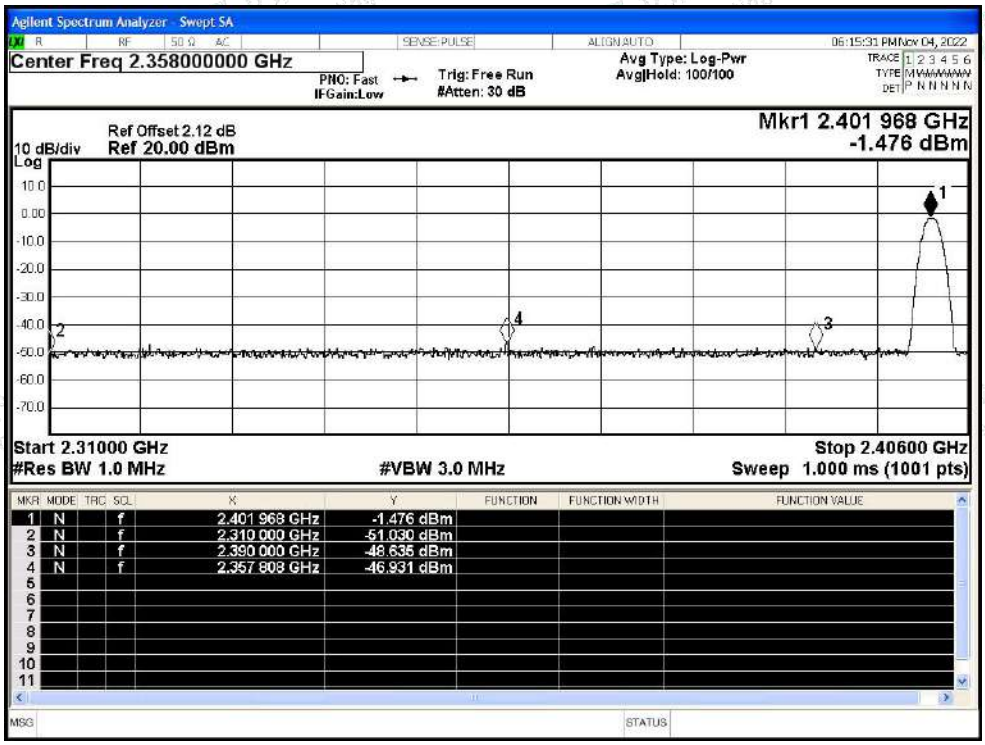
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



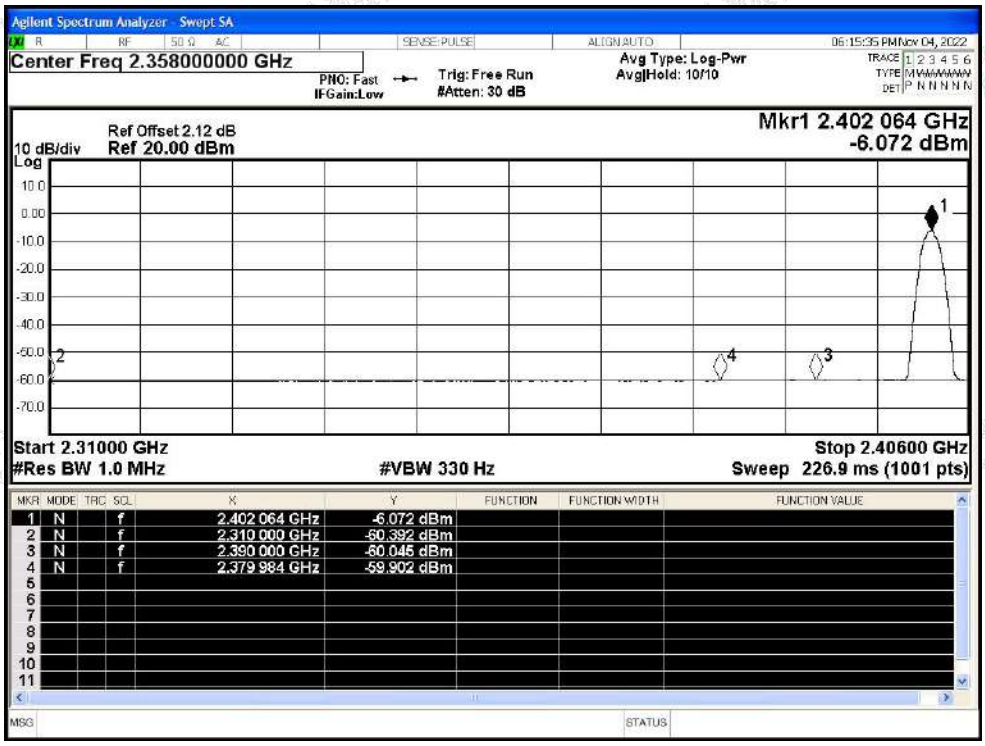
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



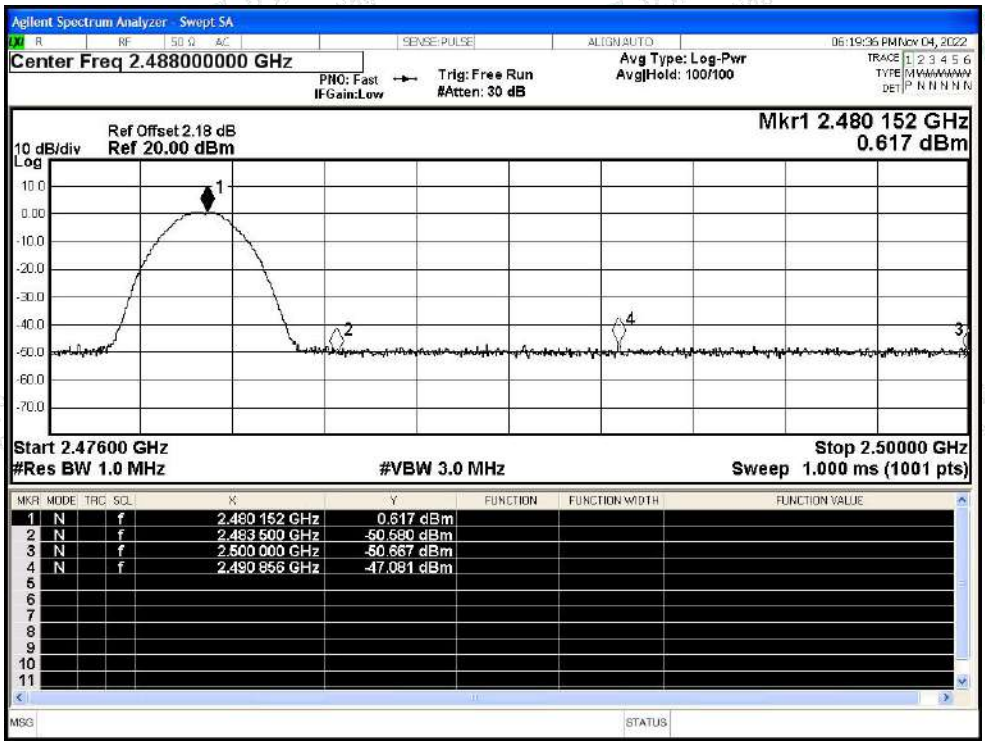
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



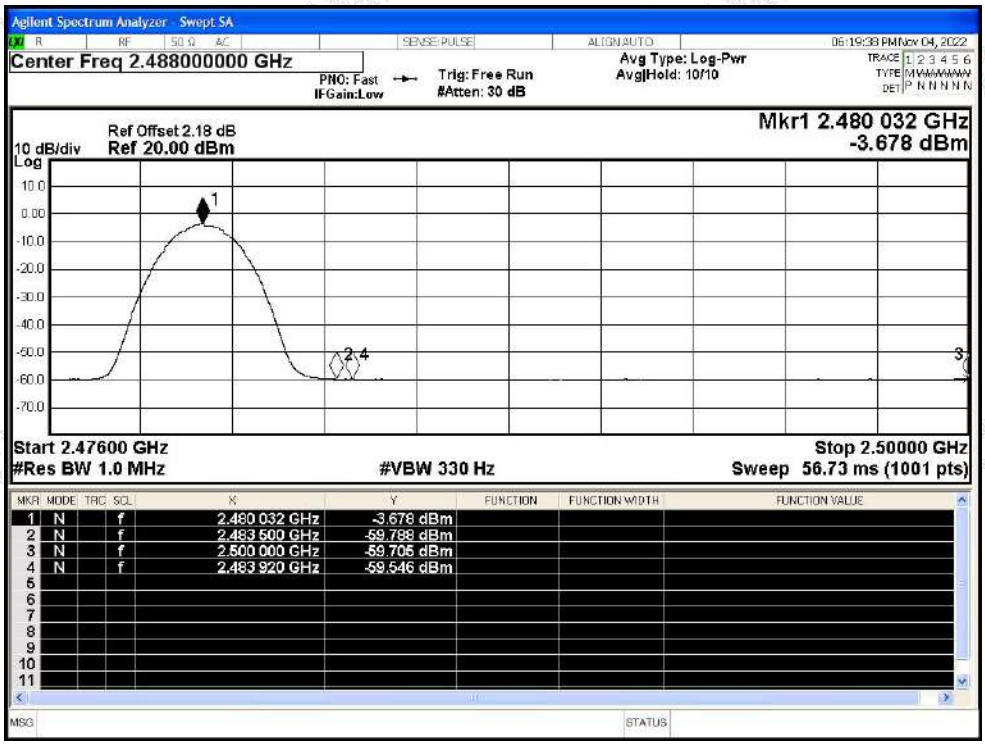
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



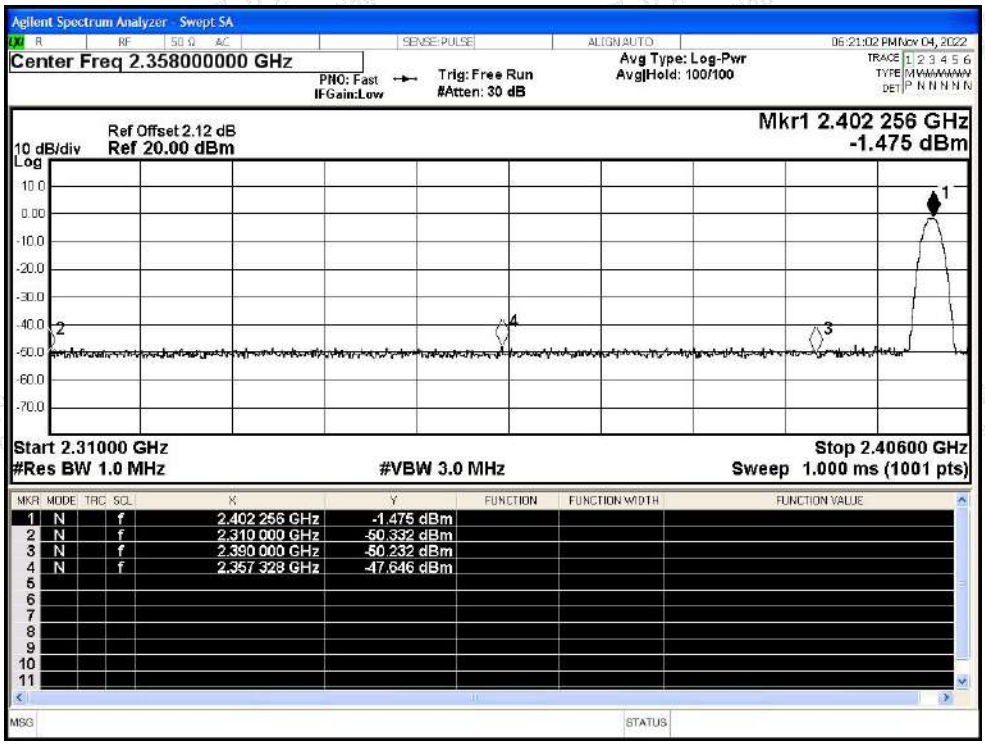
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



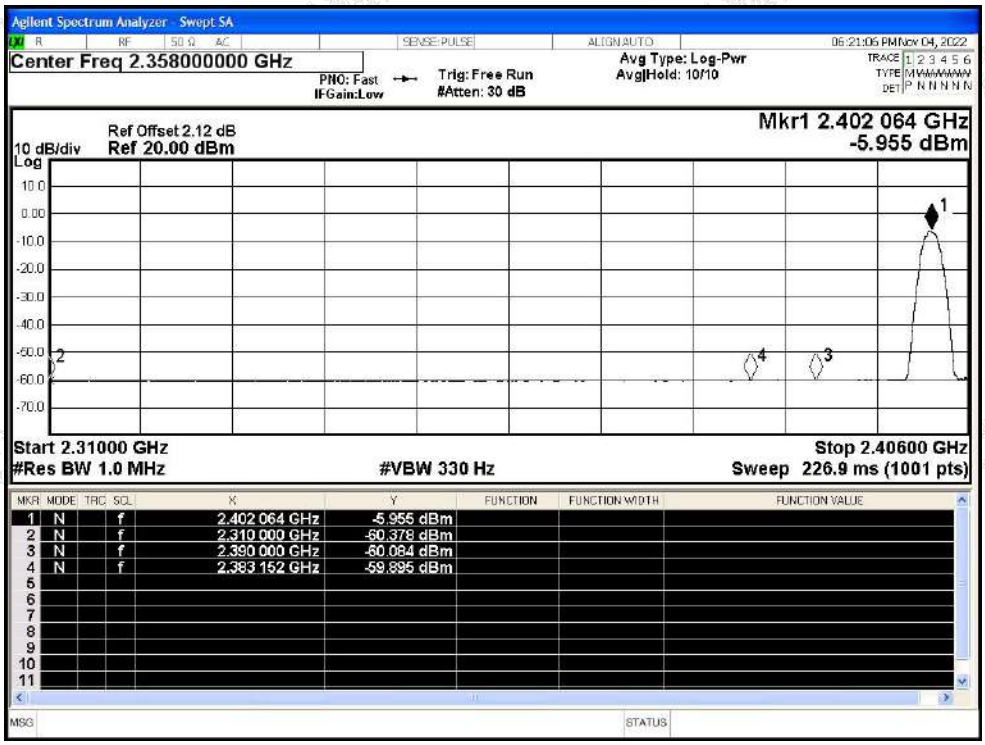
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



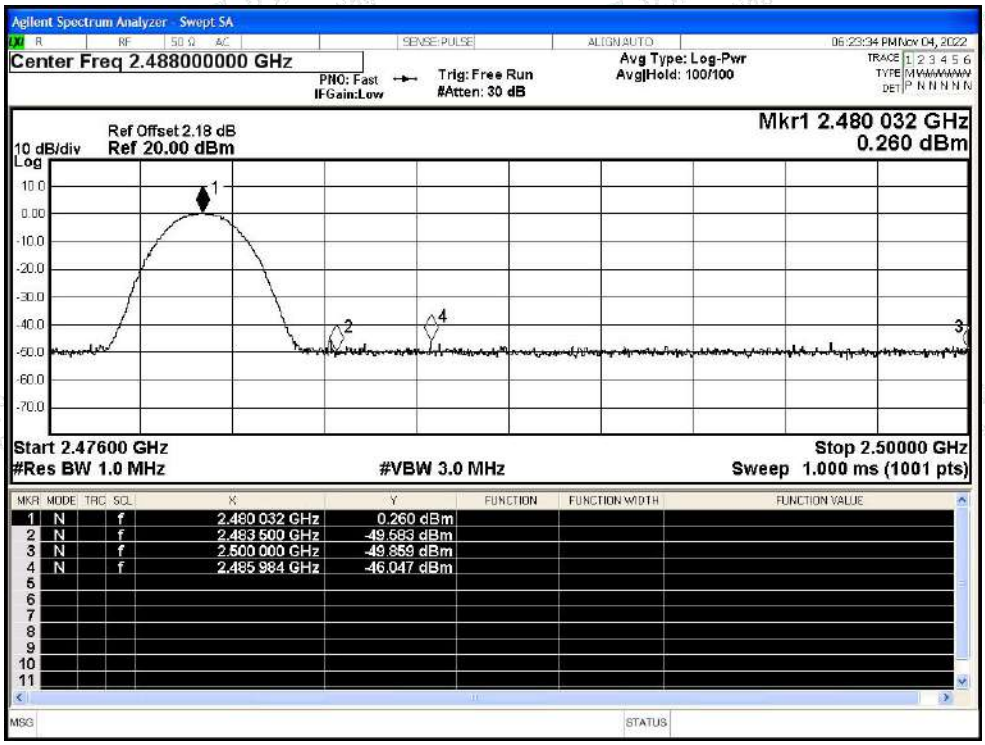
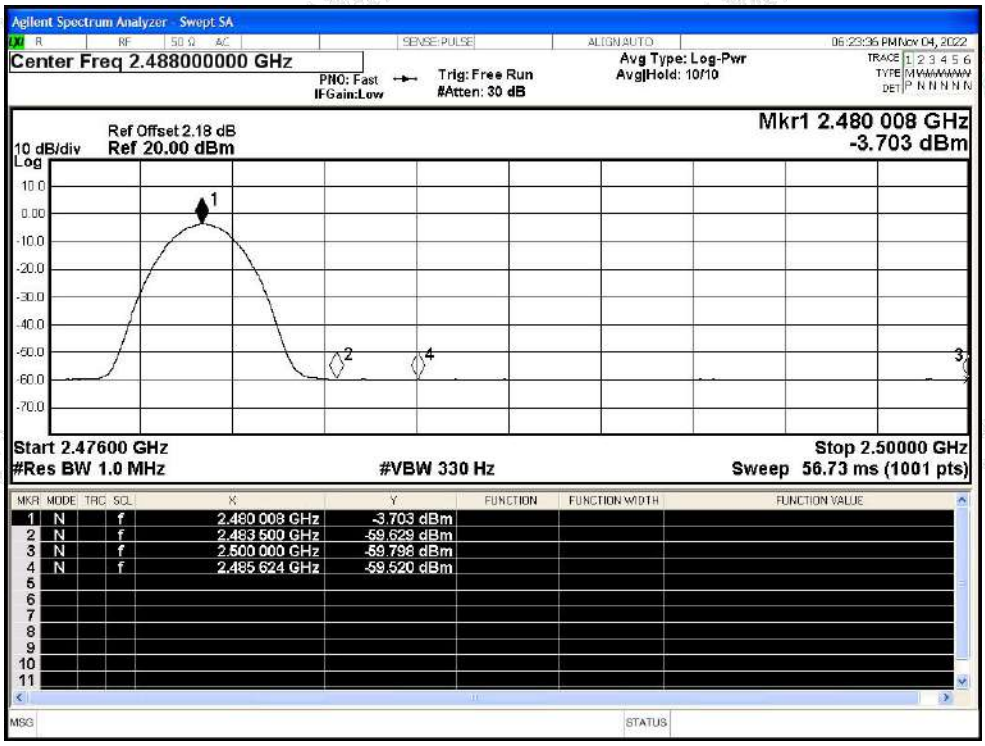
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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