



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: mobile phone

Test Model: bm70

Environmental Conditions

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



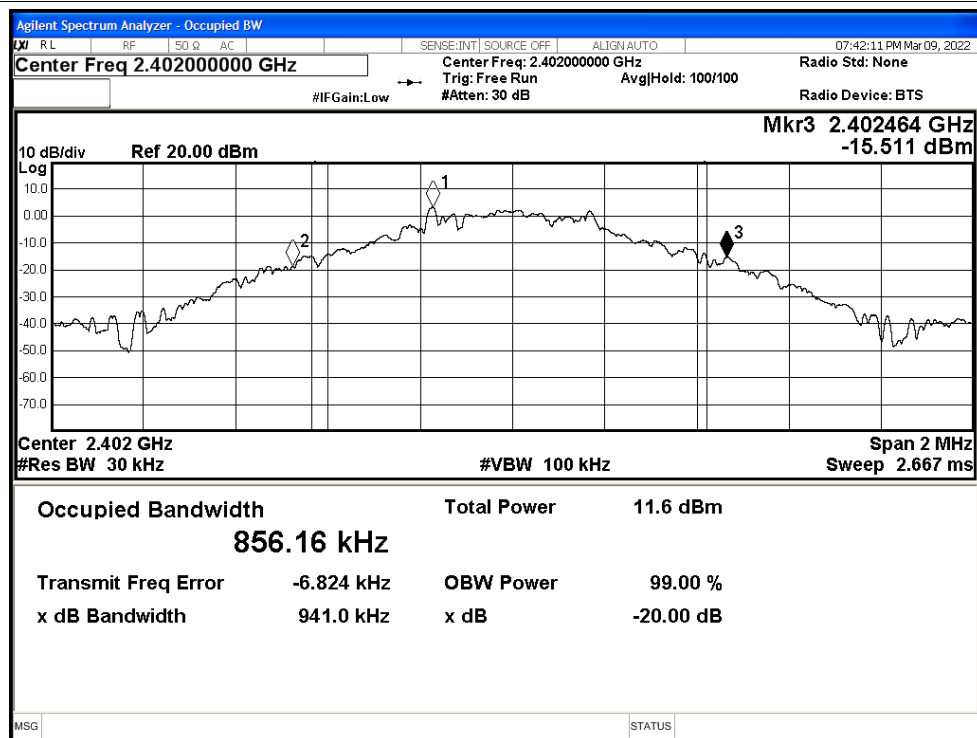
A.1 20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.941	0	Pass
NVNT	1-DH5	2441	Ant1	0.942	0	Pass
NVNT	1-DH5	2480	Ant1	0.948	0	Pass
NVNT	2-DH5	2402	Ant1	1.29	0	Pass
NVNT	2-DH5	2441	Ant1	1.281	0	Pass
NVNT	2-DH5	2480	Ant1	1.313	0	Pass
NVNT	3-DH5	2402	Ant1	1.299	0	Pass
NVNT	3-DH5	2441	Ant1	1.289	0	Pass
NVNT	3-DH5	2480	Ant1	1.297	0	Pass

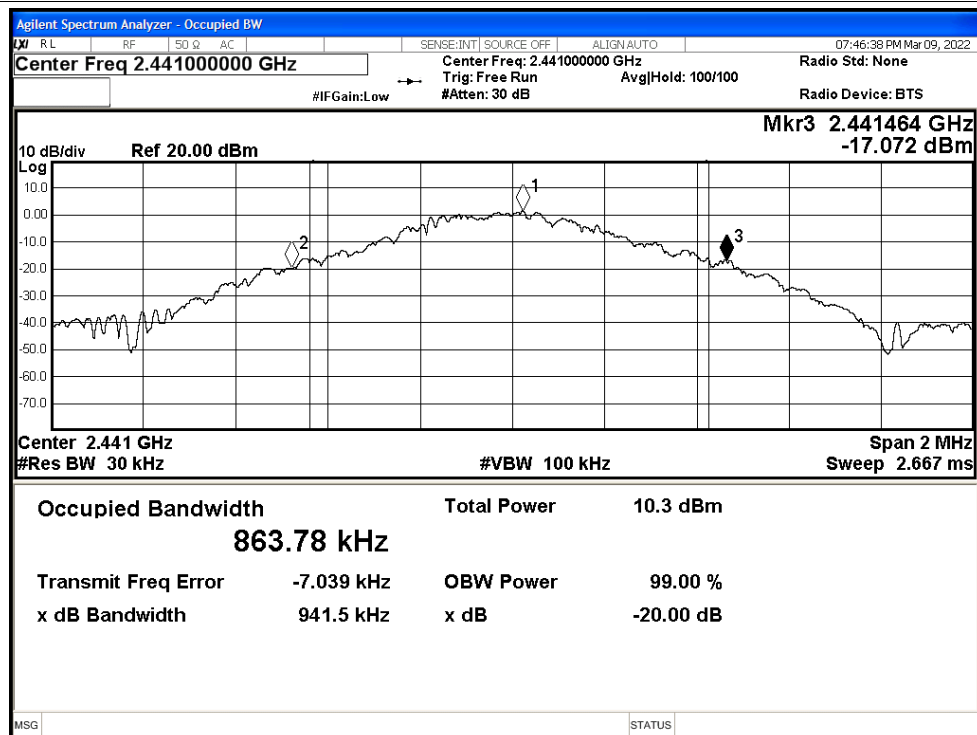


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

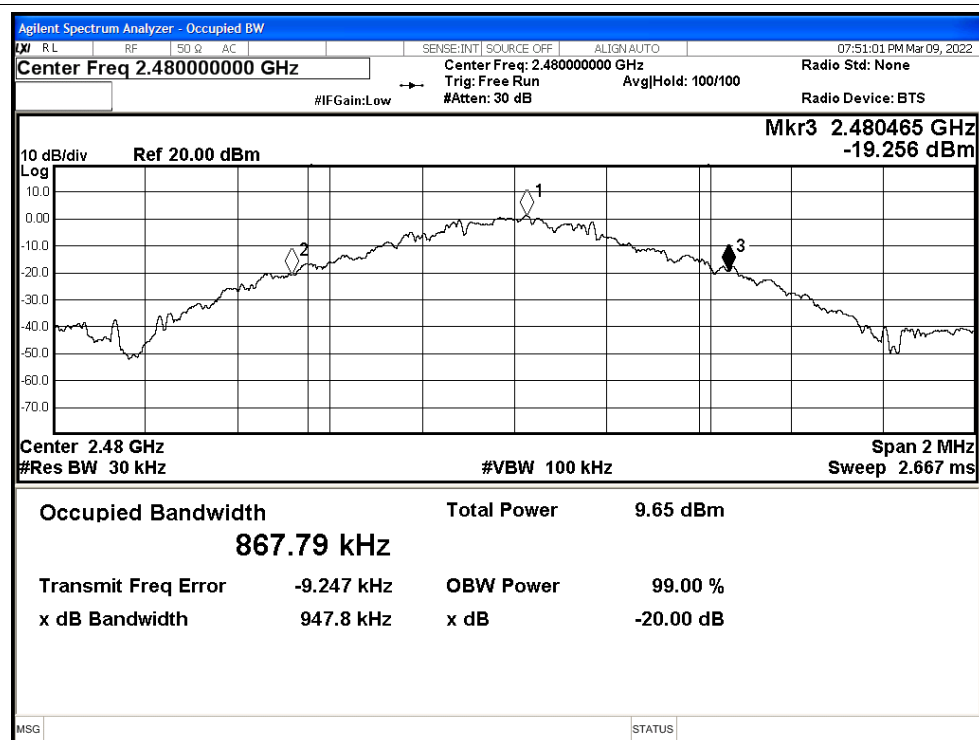


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

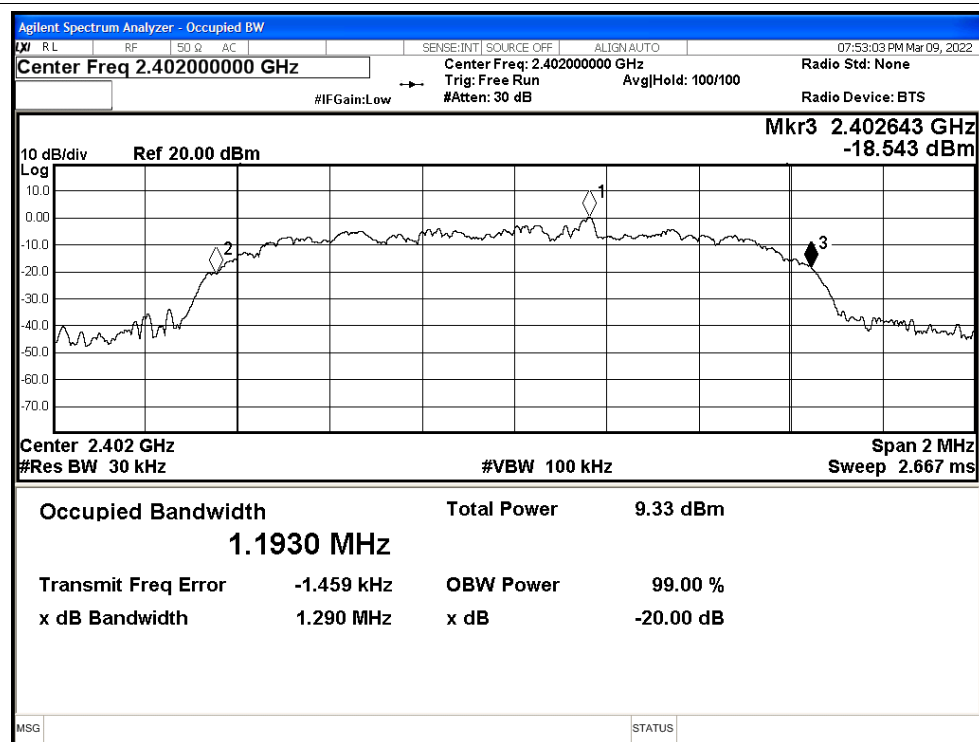




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

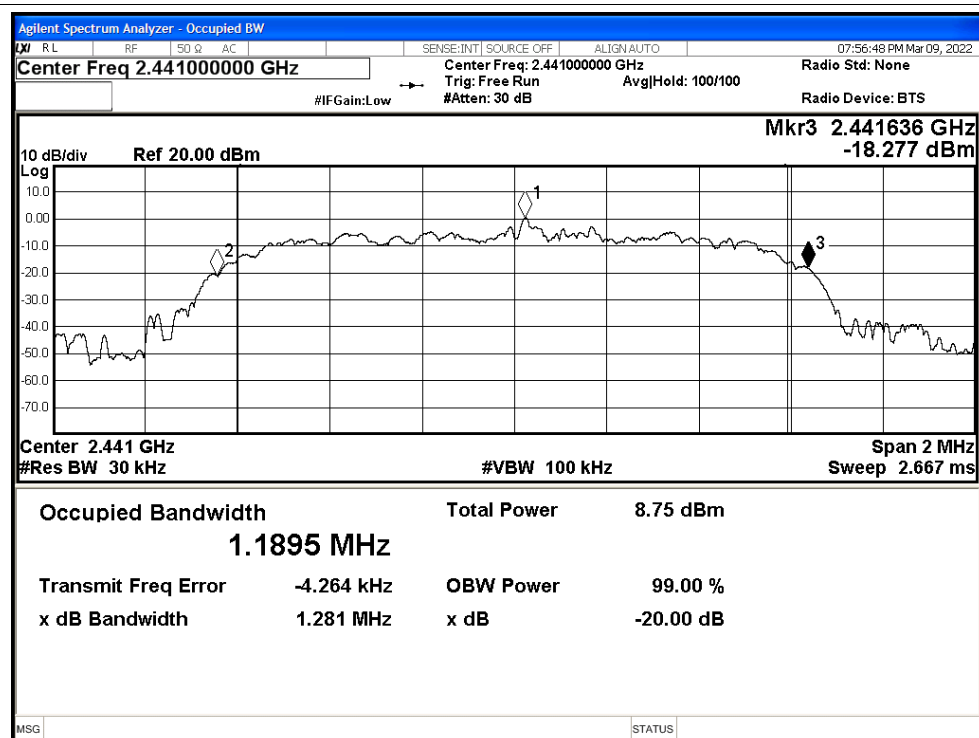


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

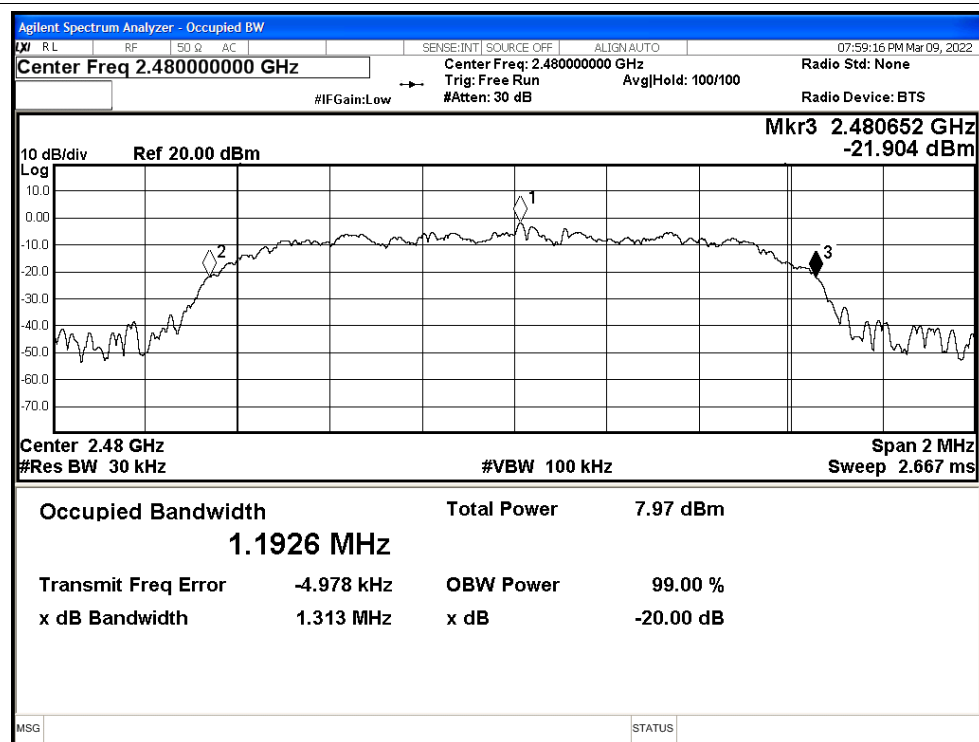




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

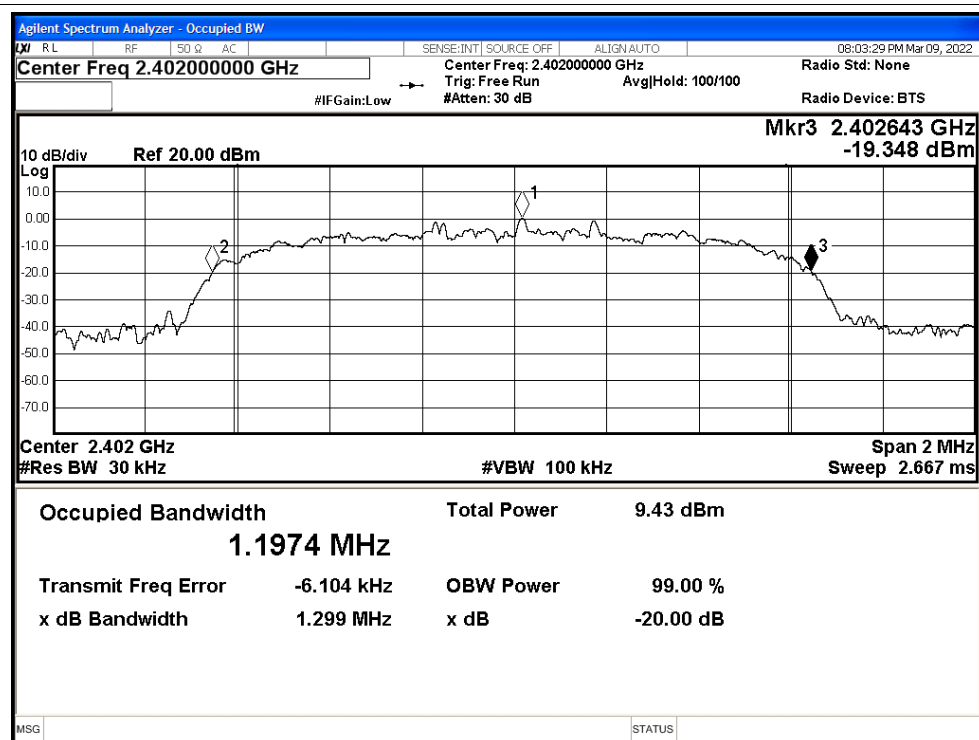


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

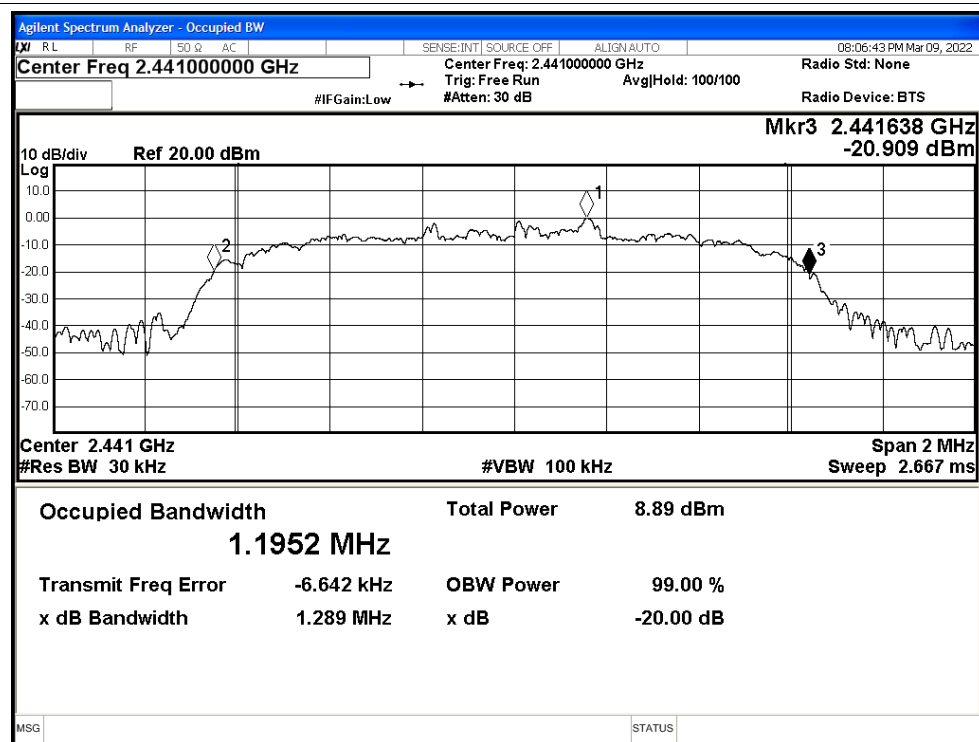




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

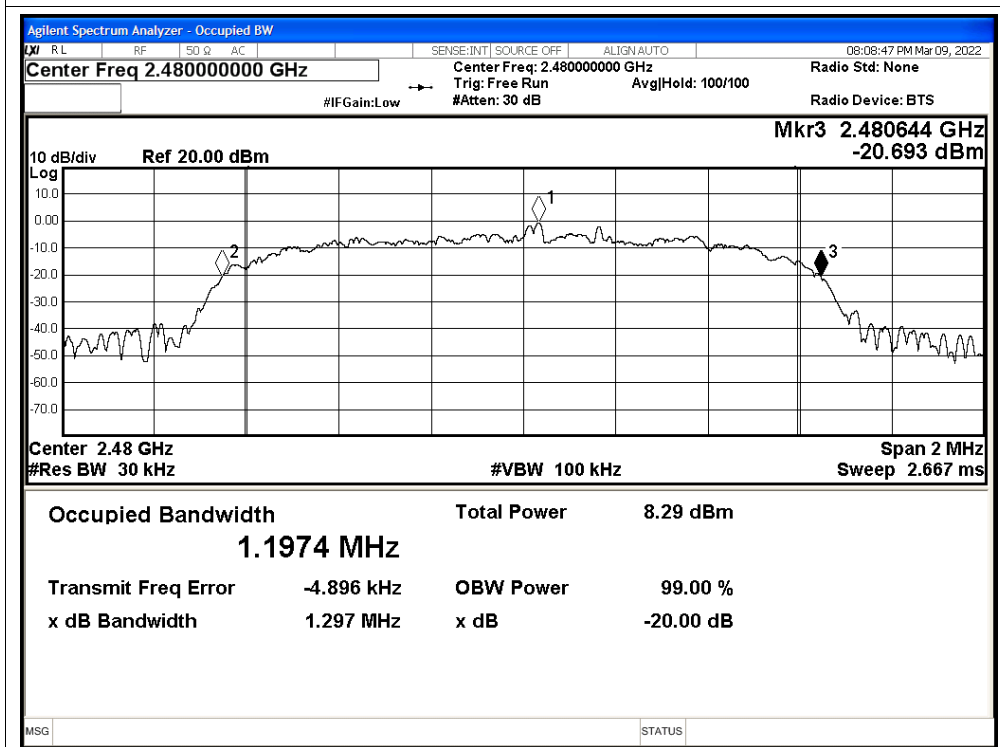


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





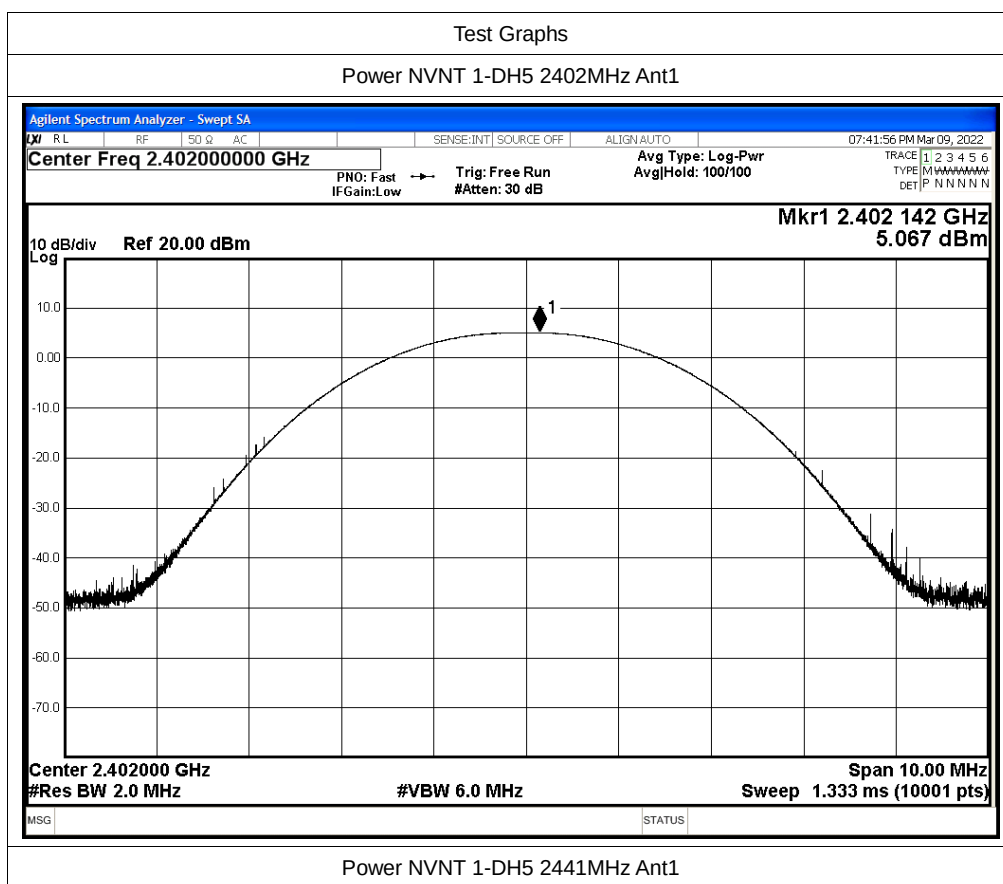
-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

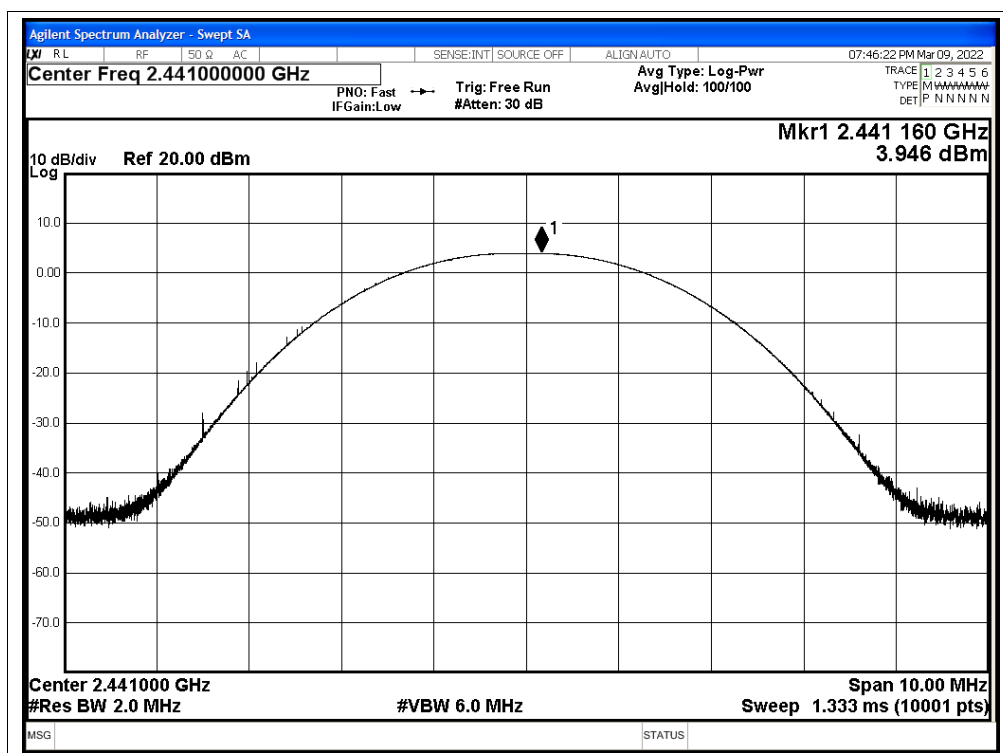




A.2 Maximum Conducted Output Power

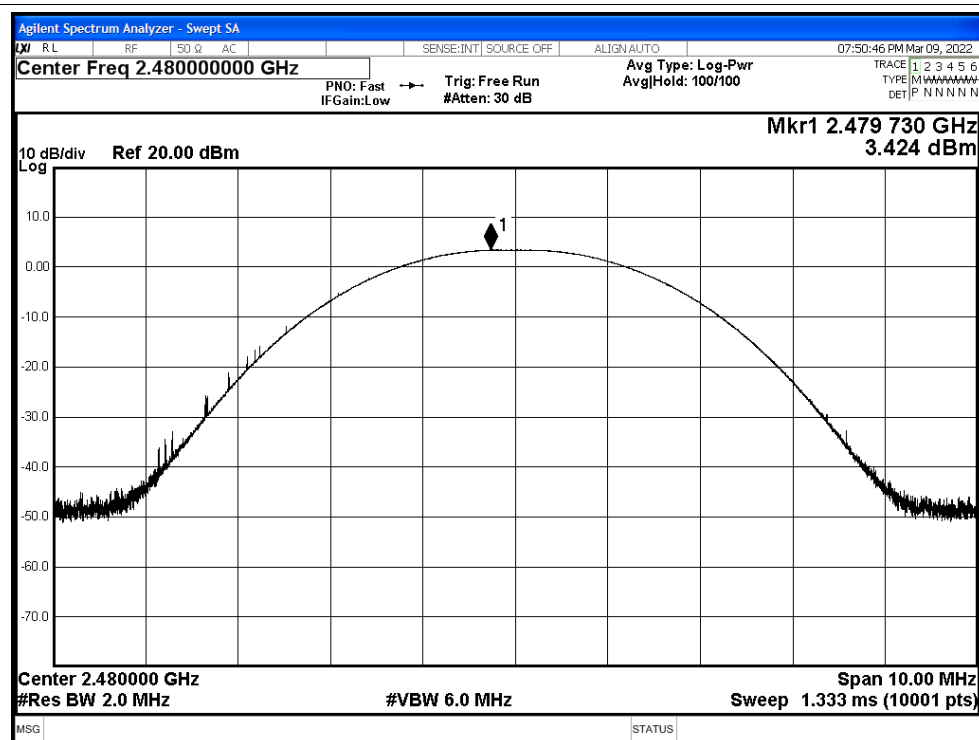
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.07	0	5.07	21	Pass
NVNT	1-DH5	2441	Ant1	3.95	0	3.95	21	Pass
NVNT	1-DH5	2480	Ant1	3.42	0	3.42	21	Pass
NVNT	2-DH5	2402	Ant1	5.15	0	5.15	21	Pass
NVNT	2-DH5	2441	Ant1	4.68	0	4.68	21	Pass
NVNT	2-DH5	2480	Ant1	4.1	0	4.1	21	Pass
NVNT	3-DH5	2402	Ant1	5.41	0	5.41	21	Pass
NVNT	3-DH5	2441	Ant1	4.95	0	4.95	21	Pass
NVNT	3-DH5	2480	Ant1	4.43	0	4.43	21	Pass



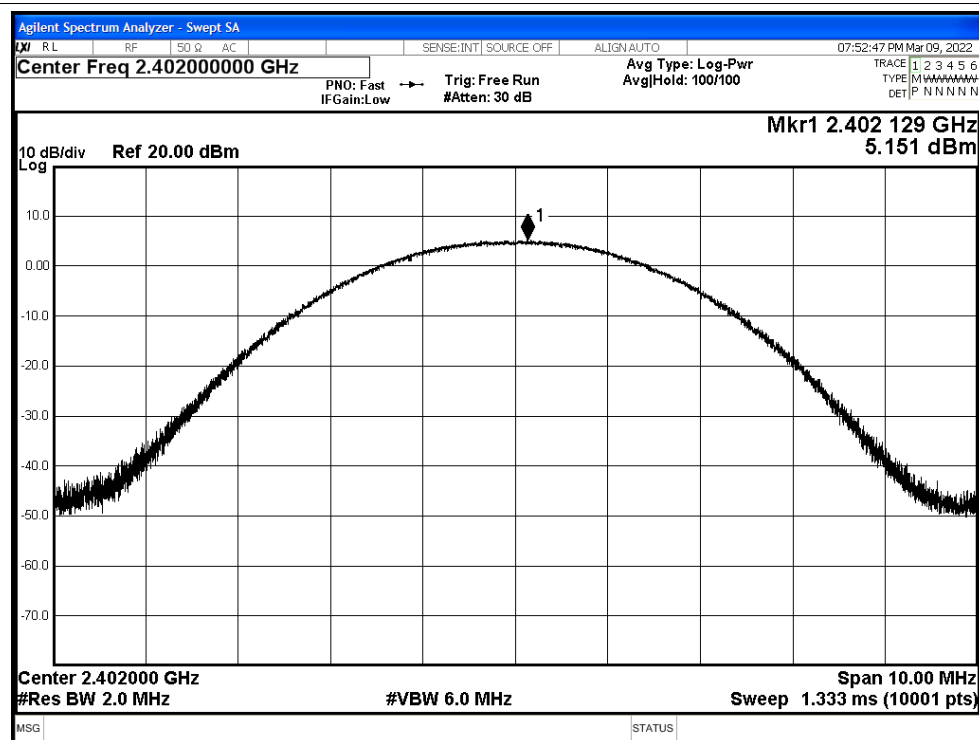




Power NVNT 1-DH5 2480MHz Ant1

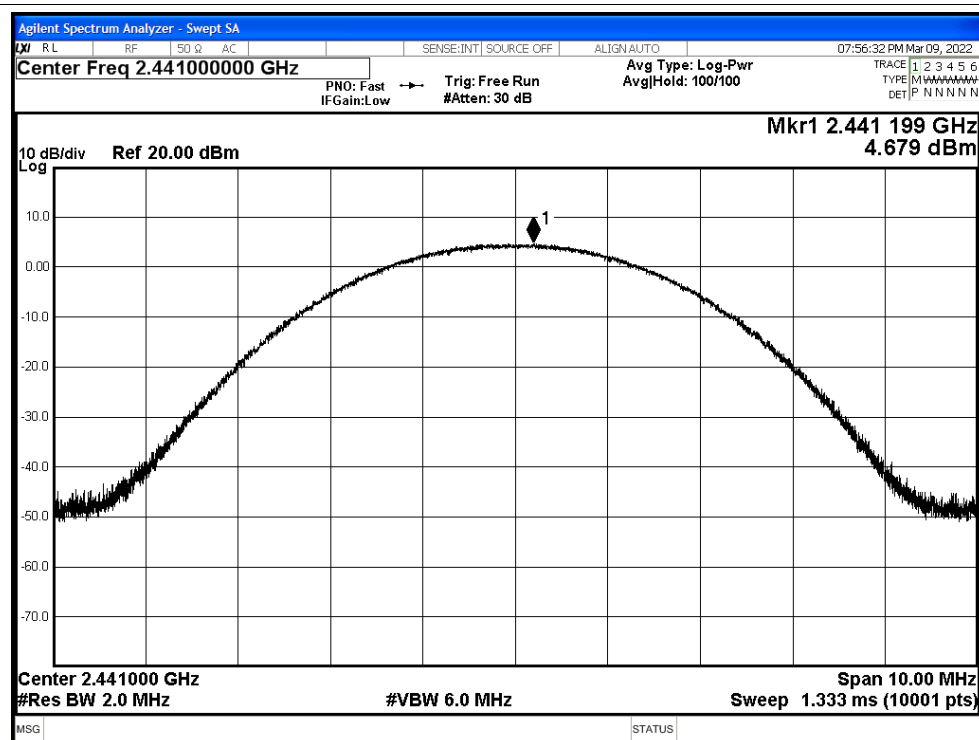


Power NVNT 2-DH5 2402MHz Ant1

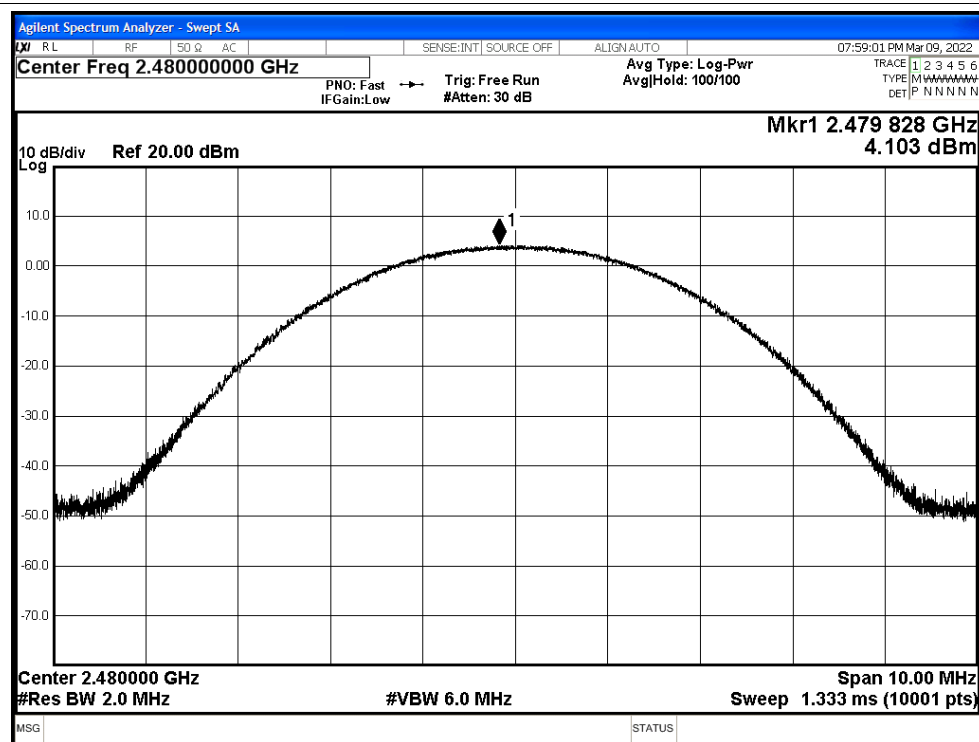




Power NVNT 2-DH5 2441MHz Ant1

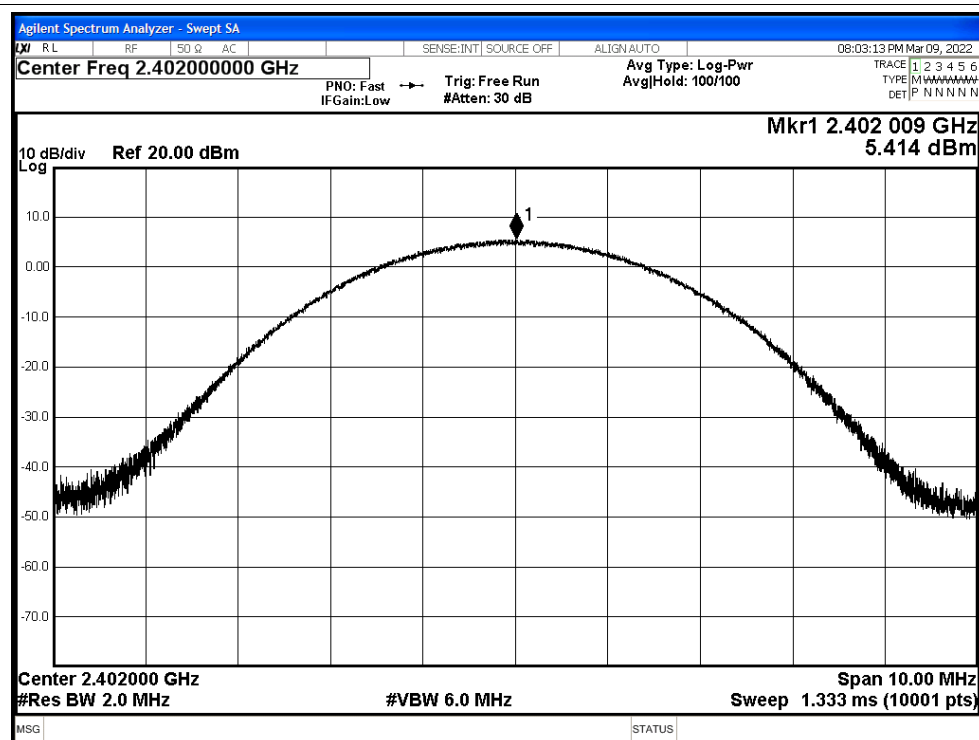


Power NVNT 2-DH5 2480MHz Ant1

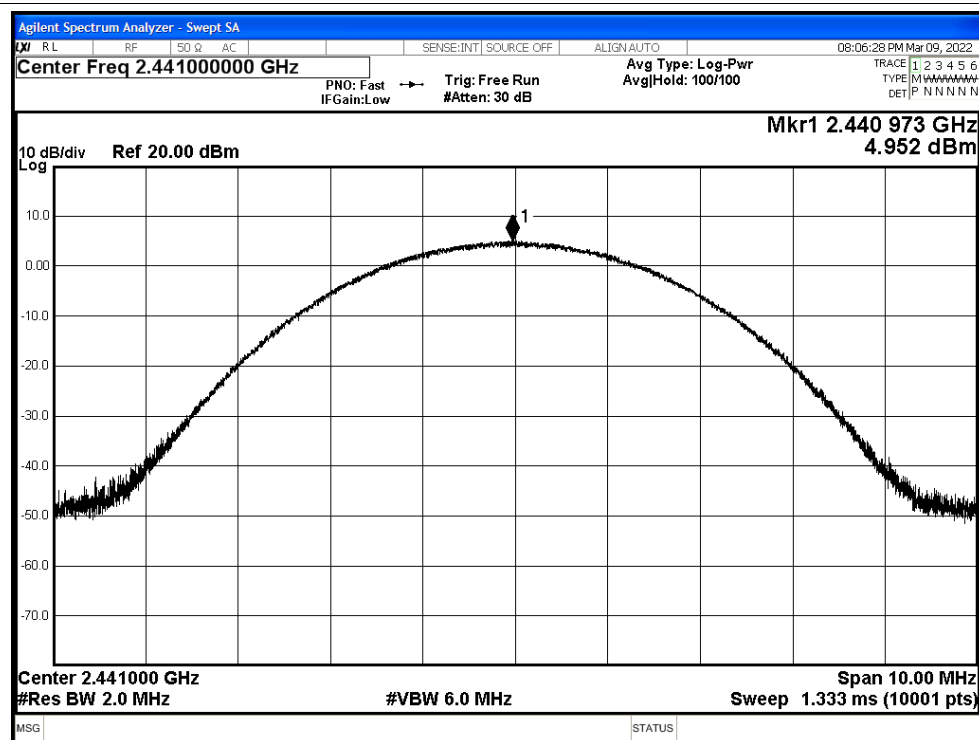


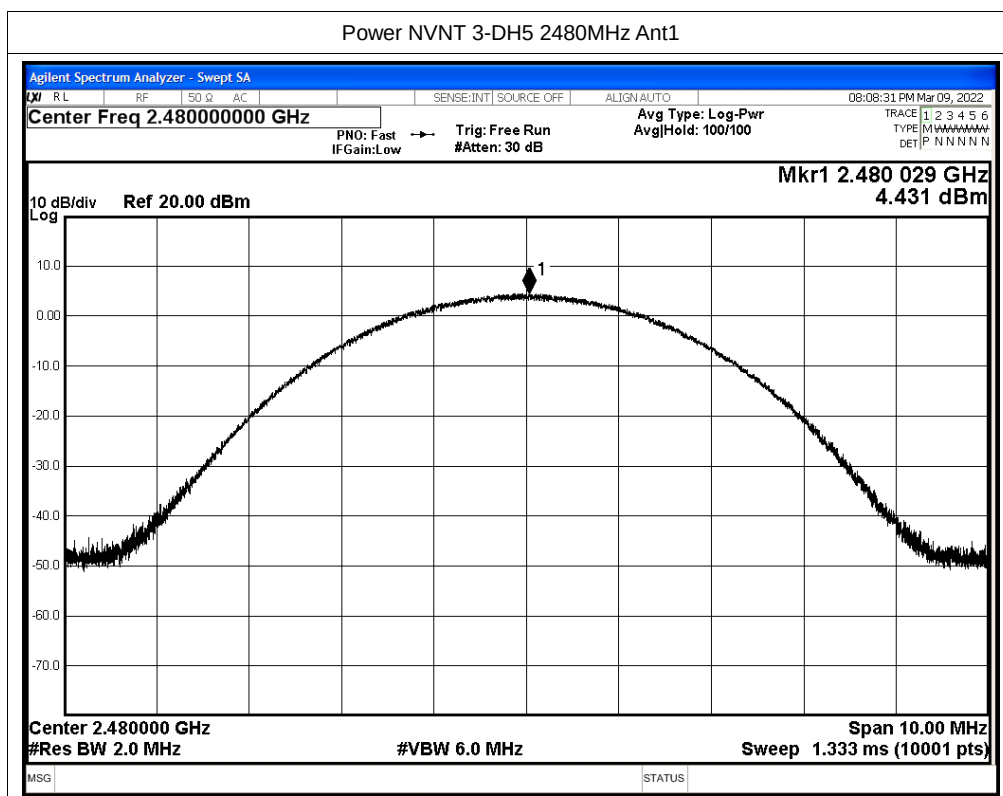


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

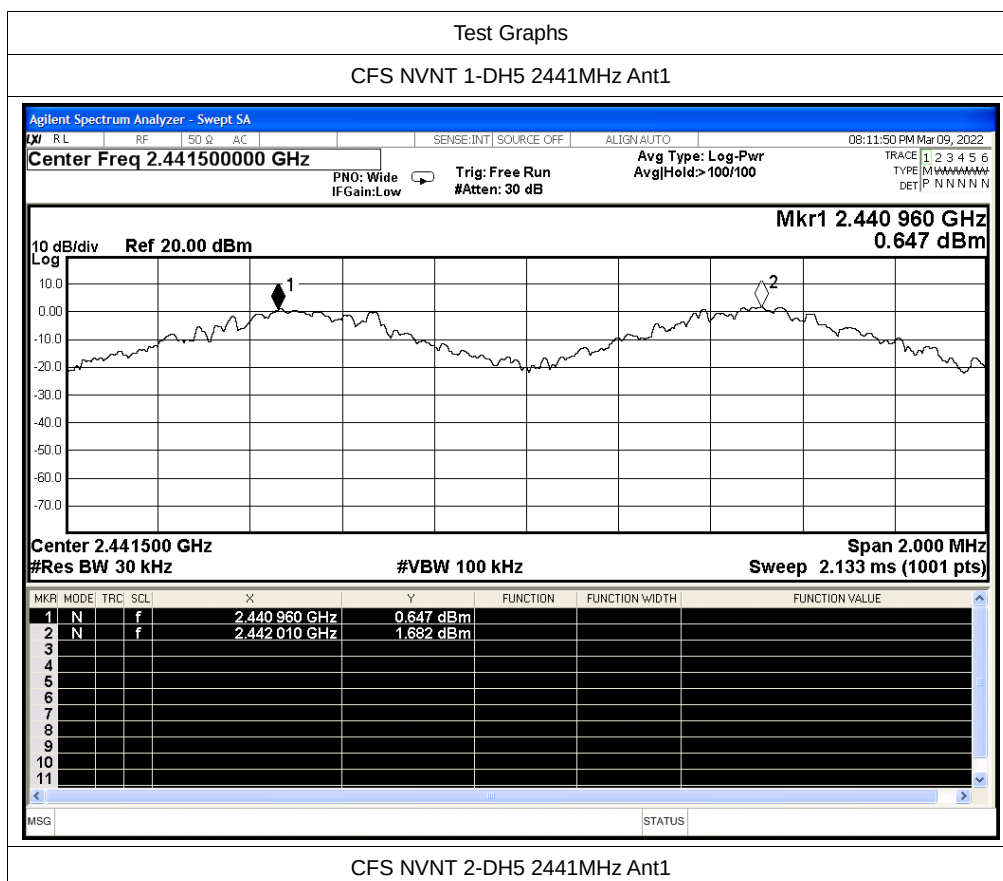


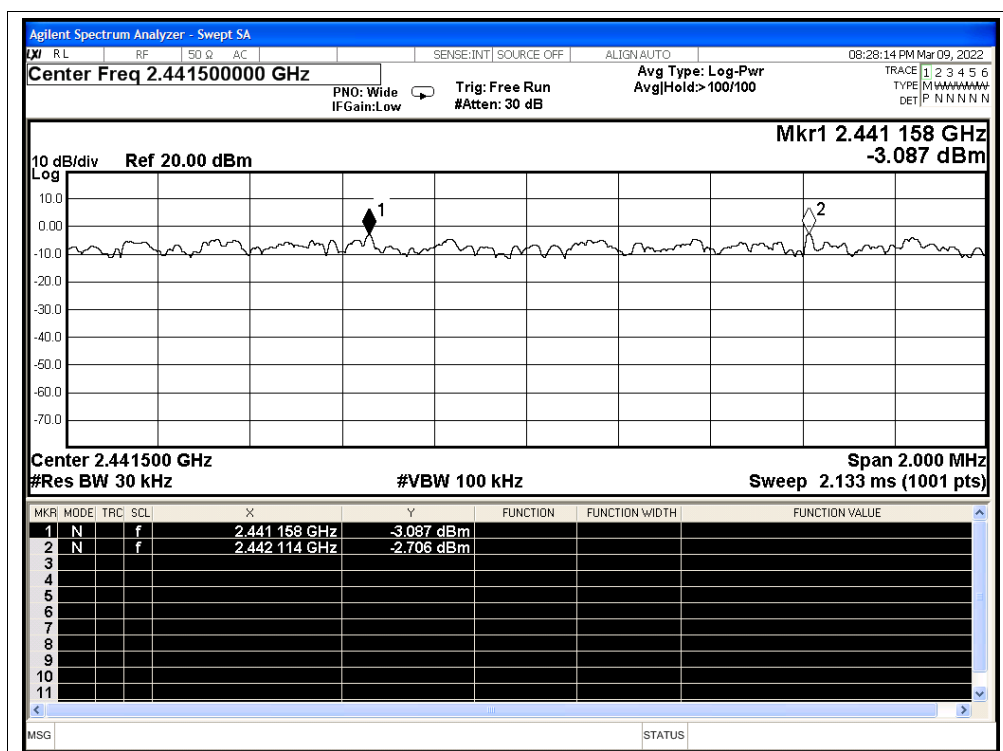




A.3 Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.96	2442.01	1.05	0.628	Pass
NVNT	2-DH5	Ant1	2441.158	2442.114	0.956	0.854	Pass
NVNT	3-DH5	Ant1	2441.028	2442.164	1.136	0.859	Pass









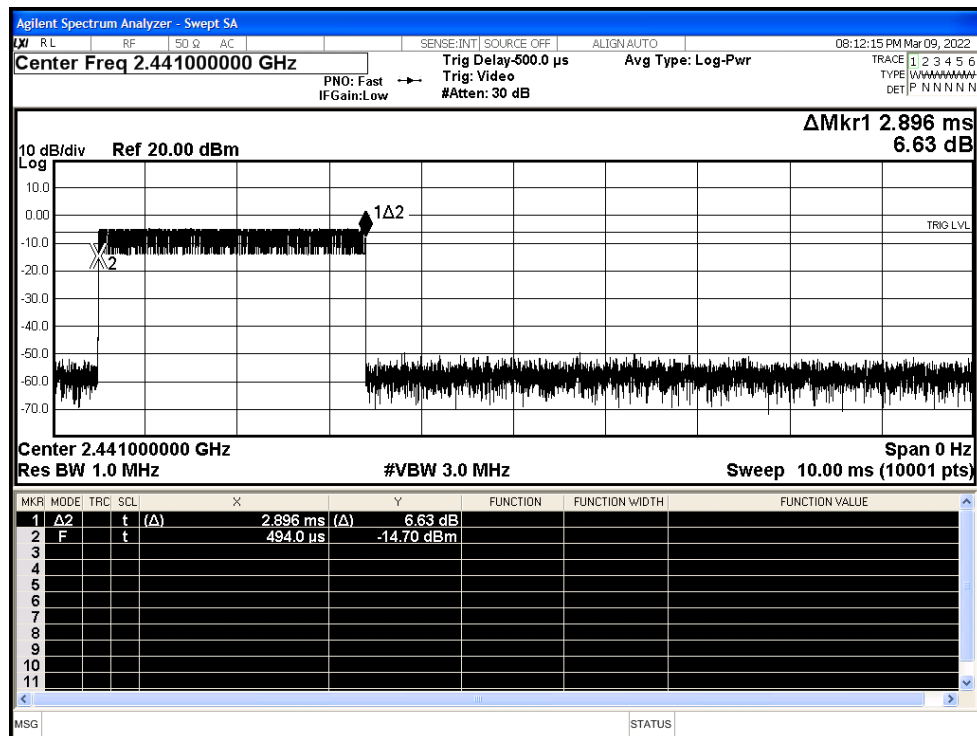
A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2441	Ant1	2.896	280.912	97	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	325.892	113	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	305.598	106	31600	400	Pass

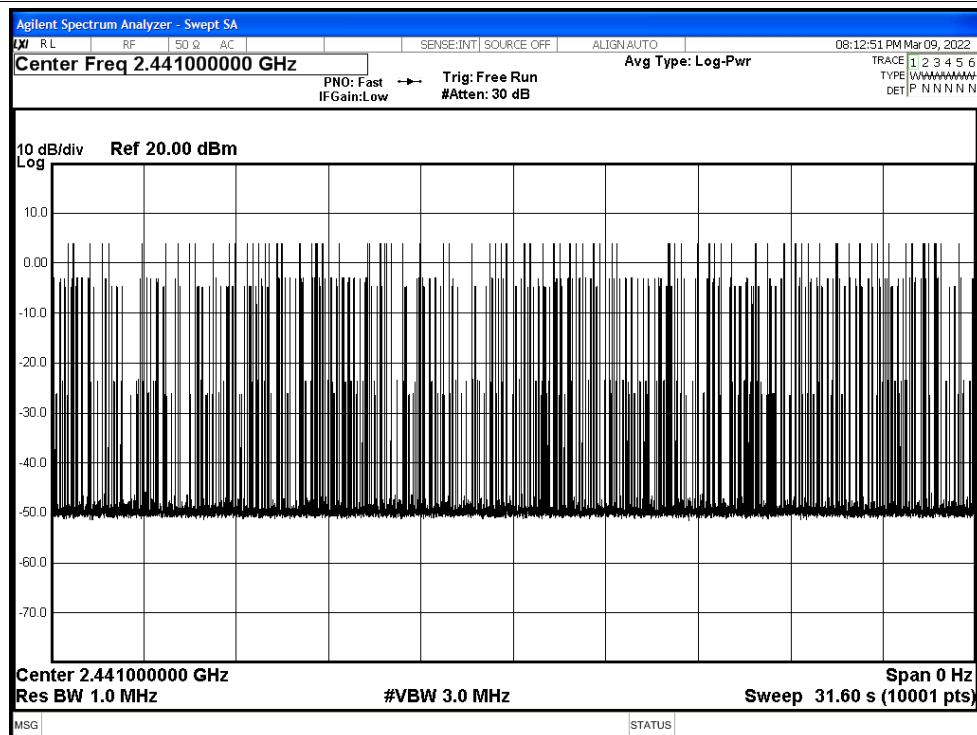


Test Graphs

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

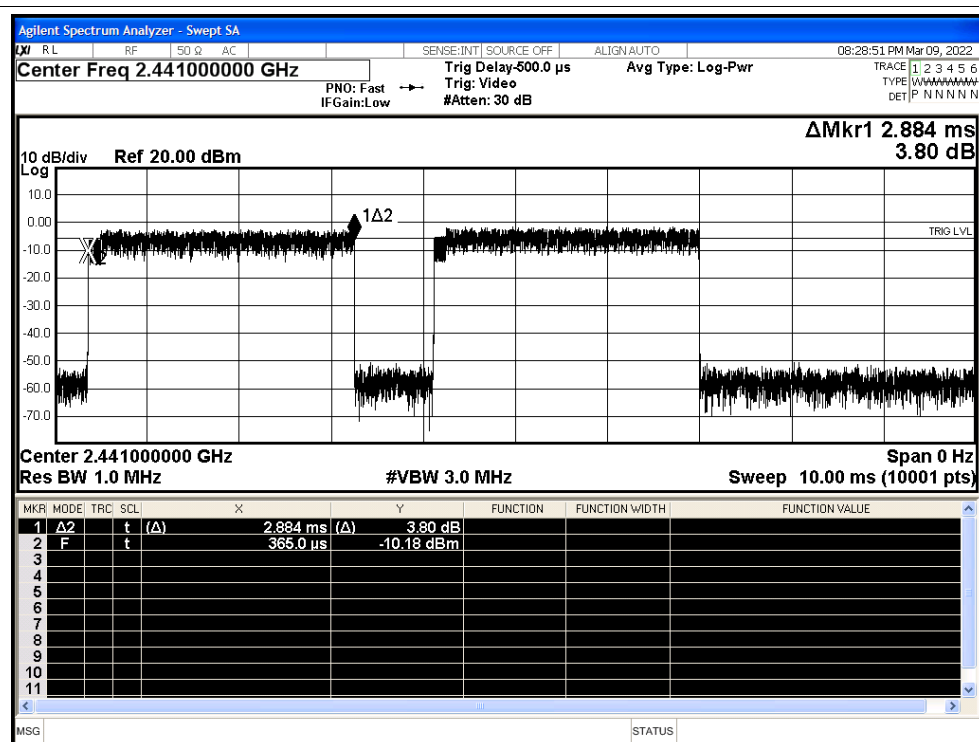


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

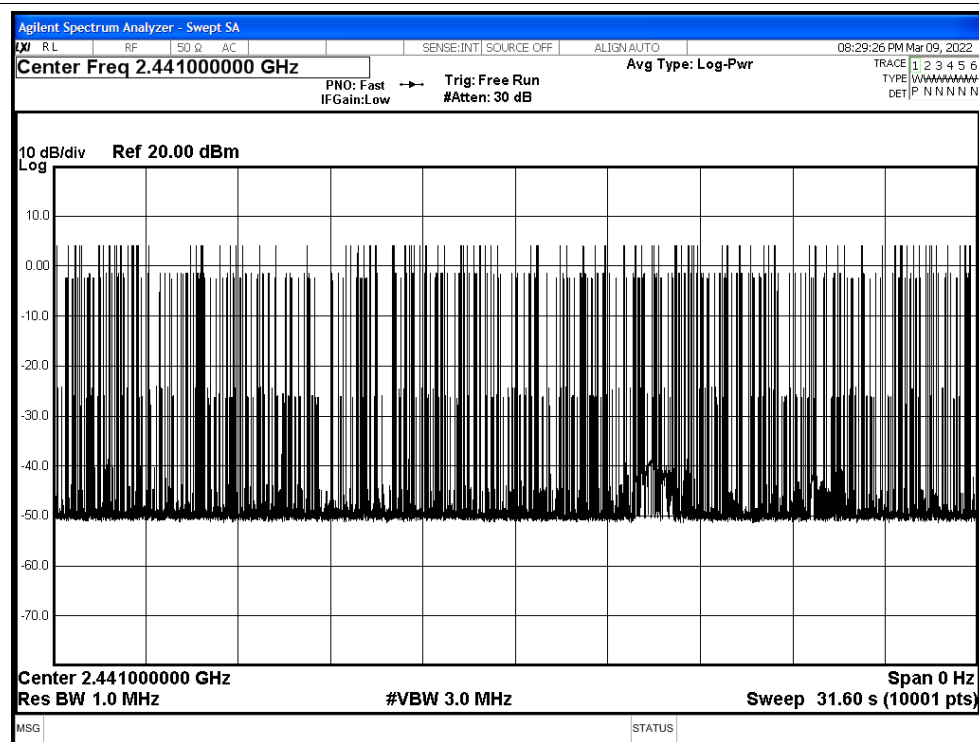




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

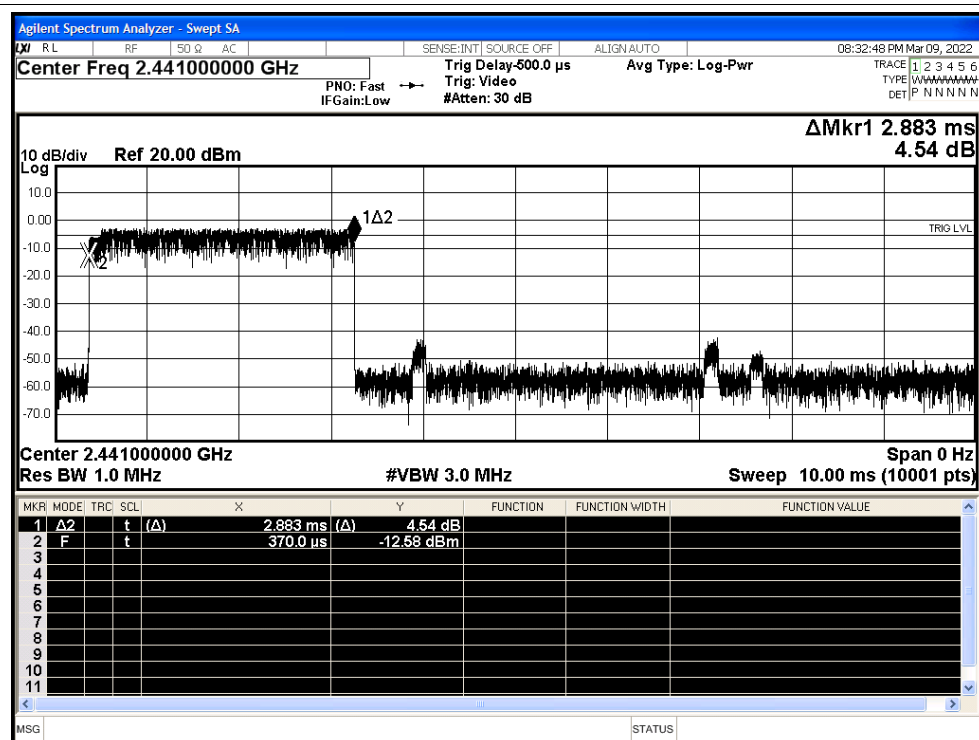


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

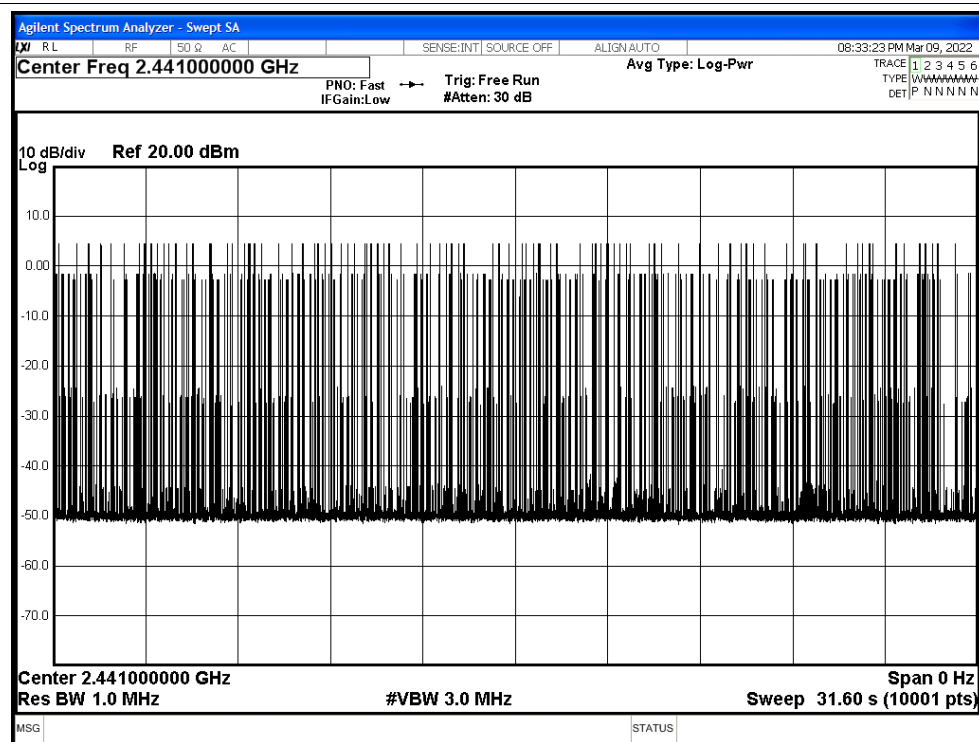




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



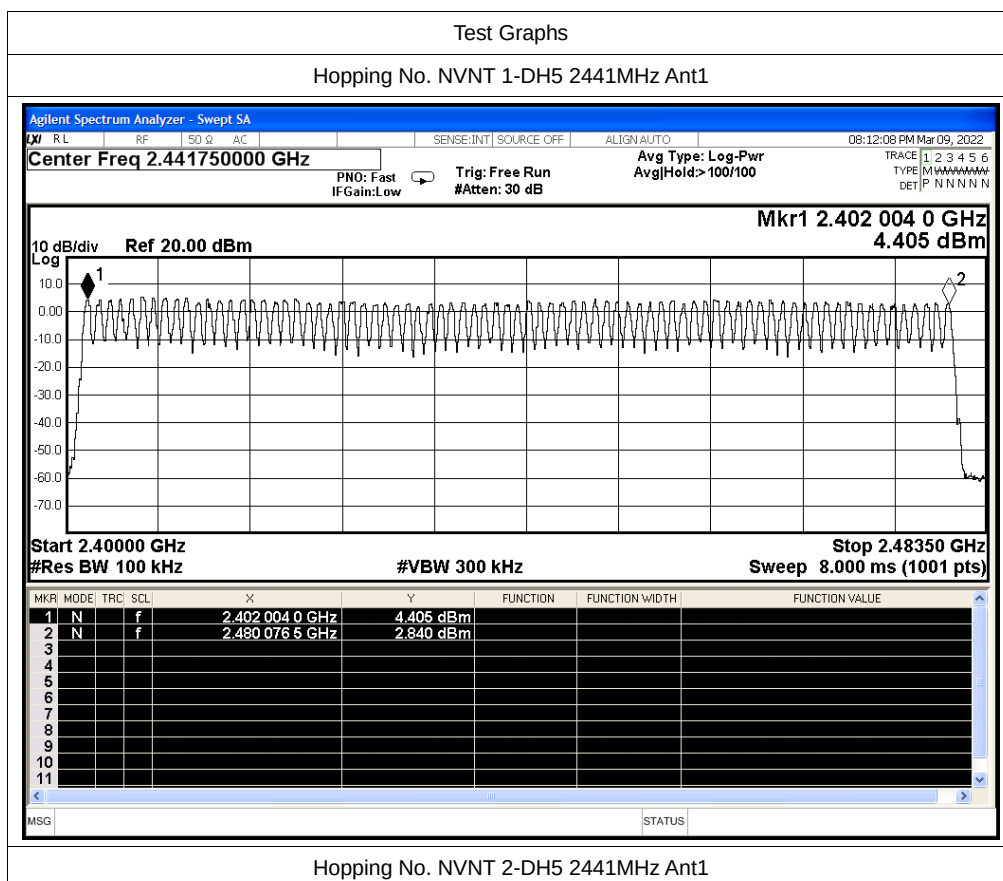
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated





A.5 Number of Hopping Channel

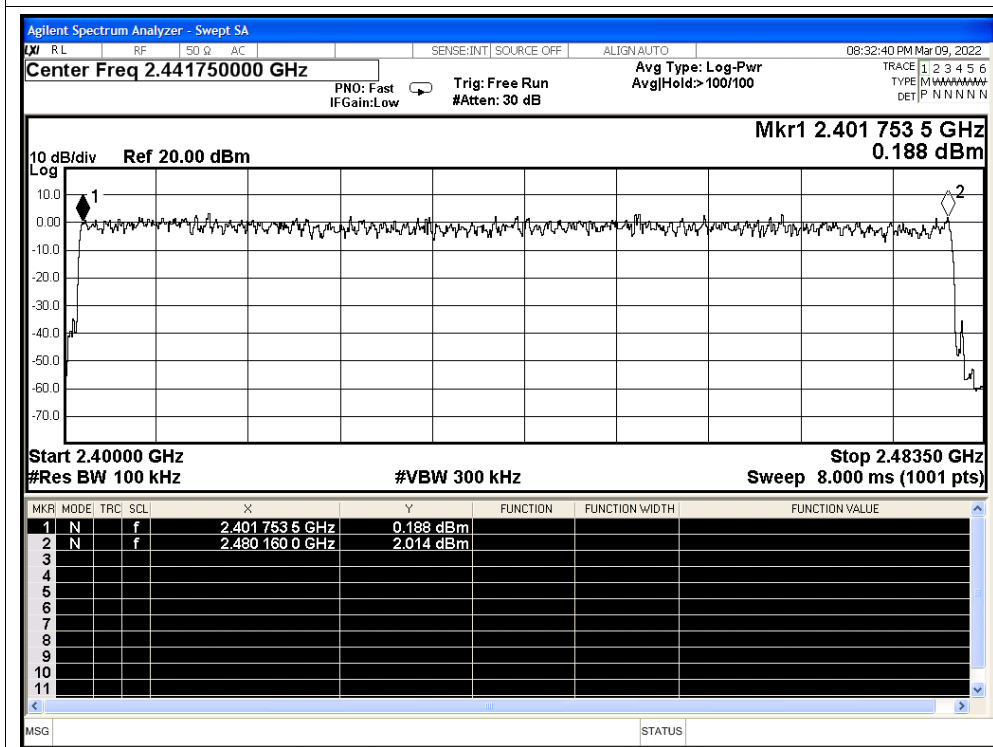
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass







Hopping No. NVNT 3-DH5 2441MHz Ant1





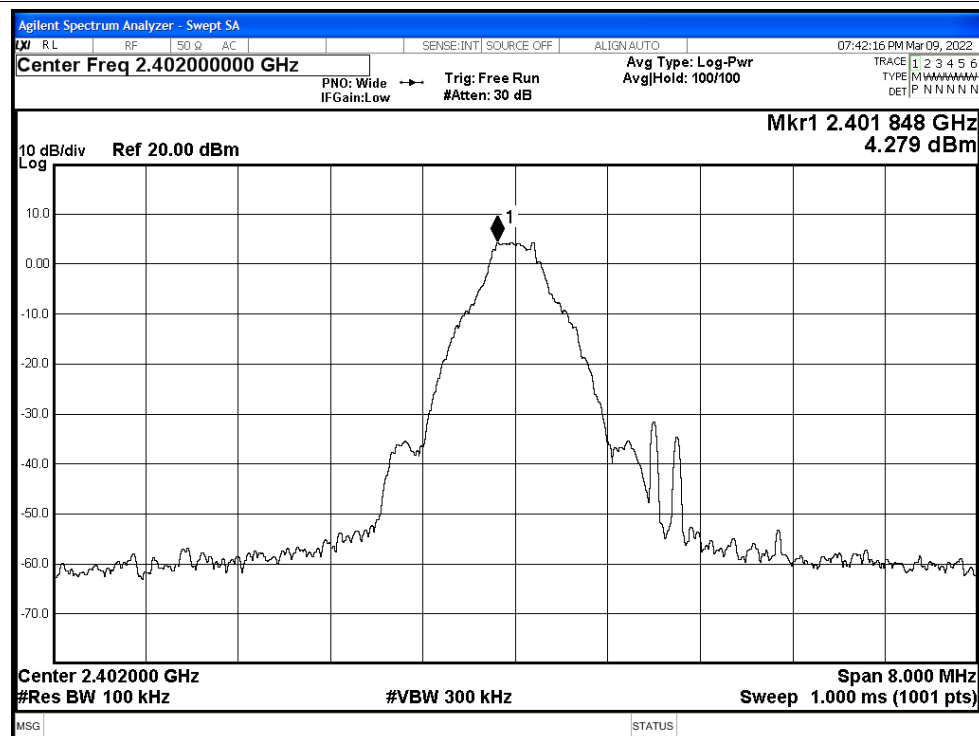
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.84	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.68	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.14	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.74	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.5	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.37	-20	Pass

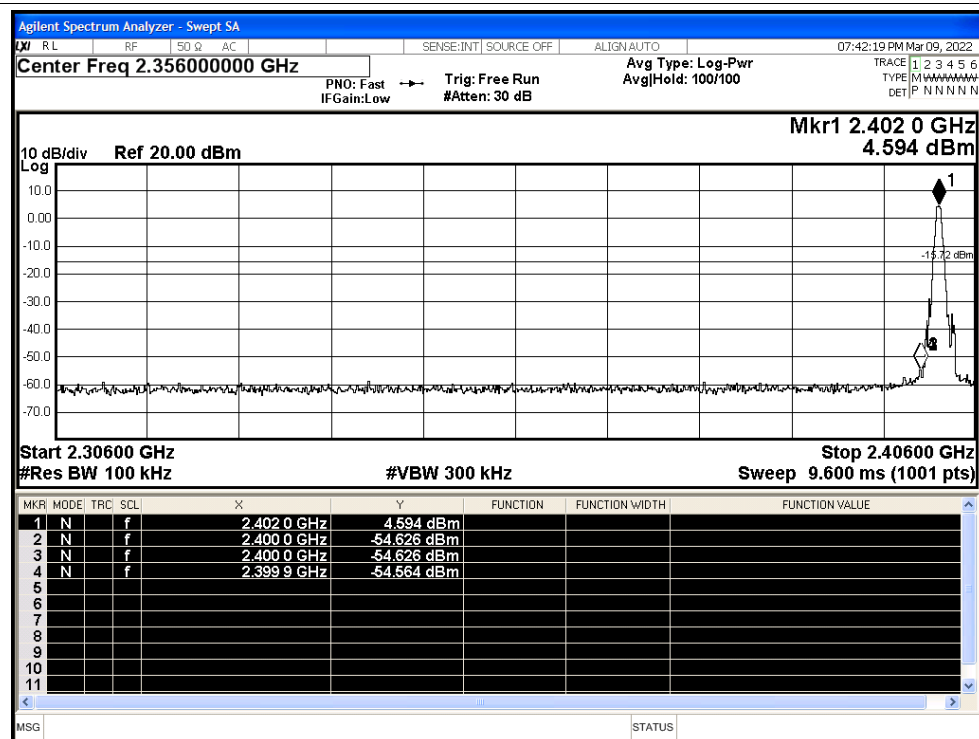


Test Graphs

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

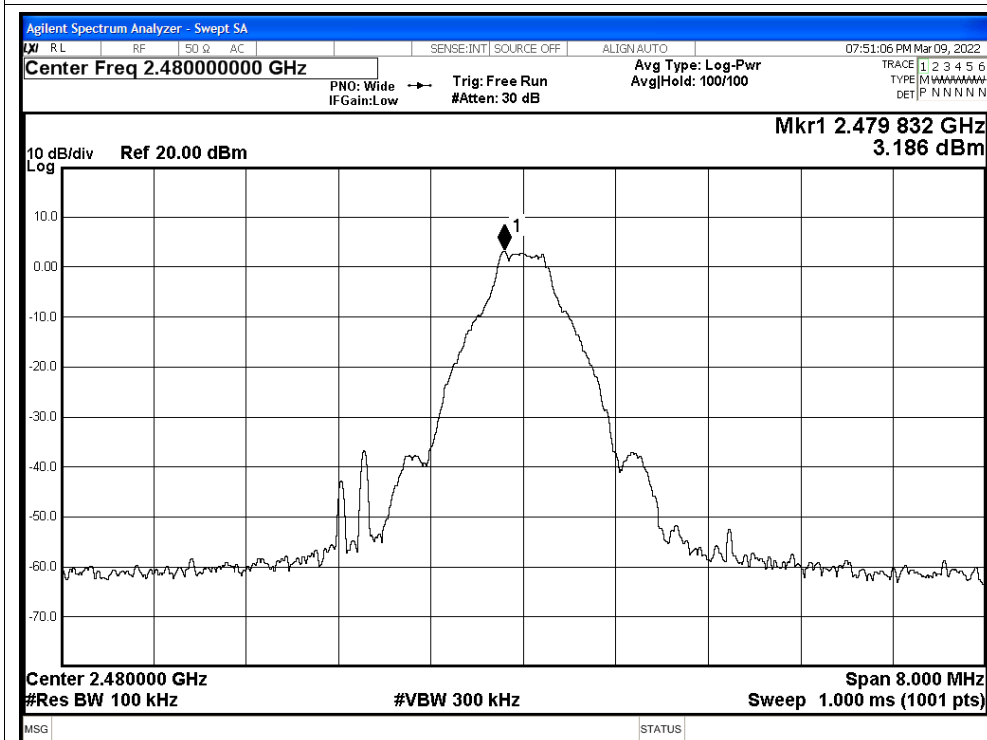


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

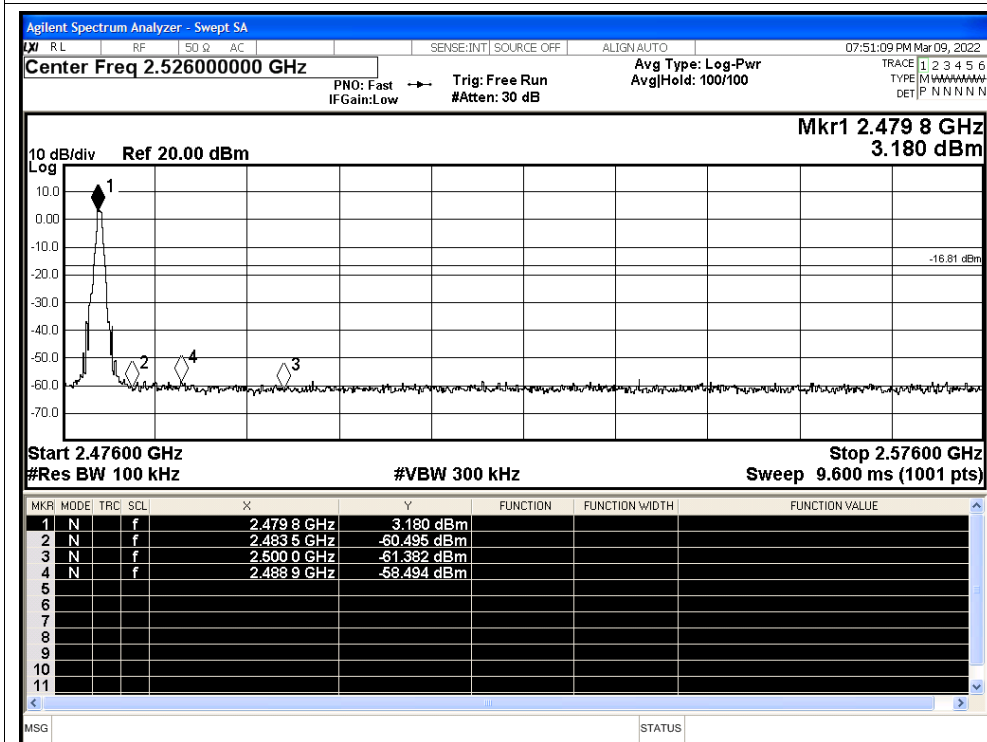




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

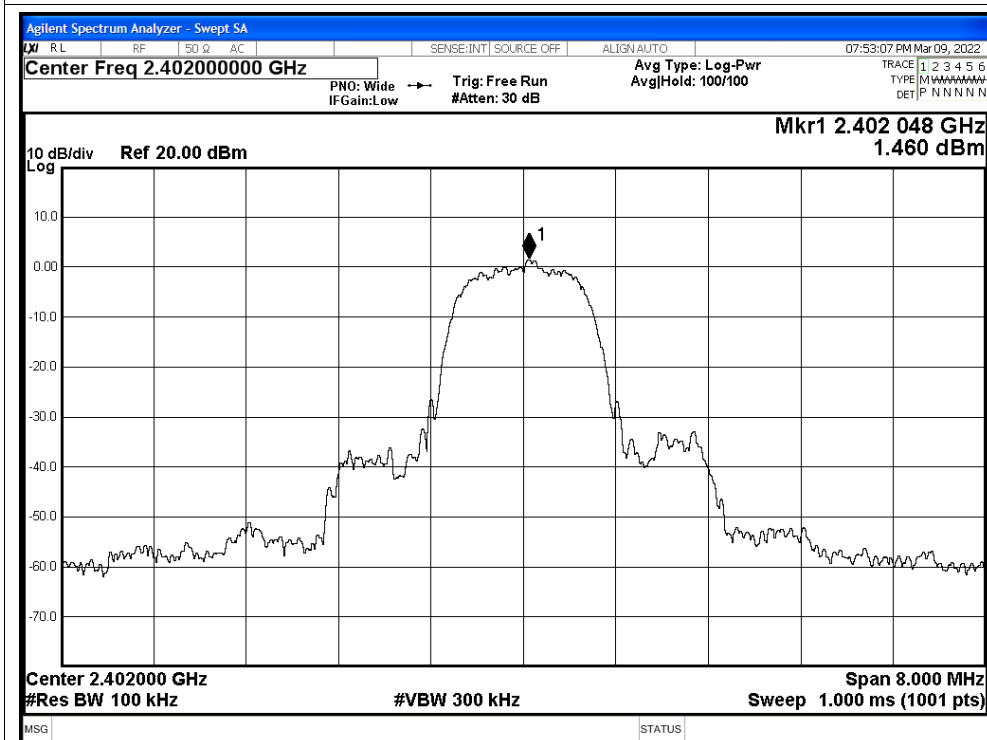


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

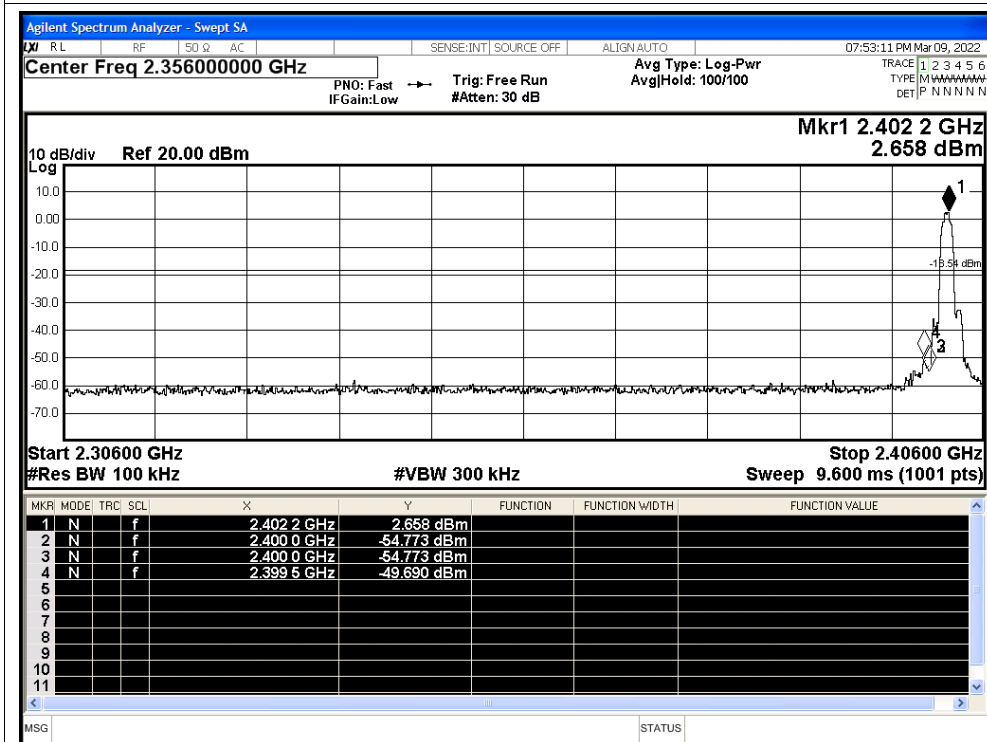




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

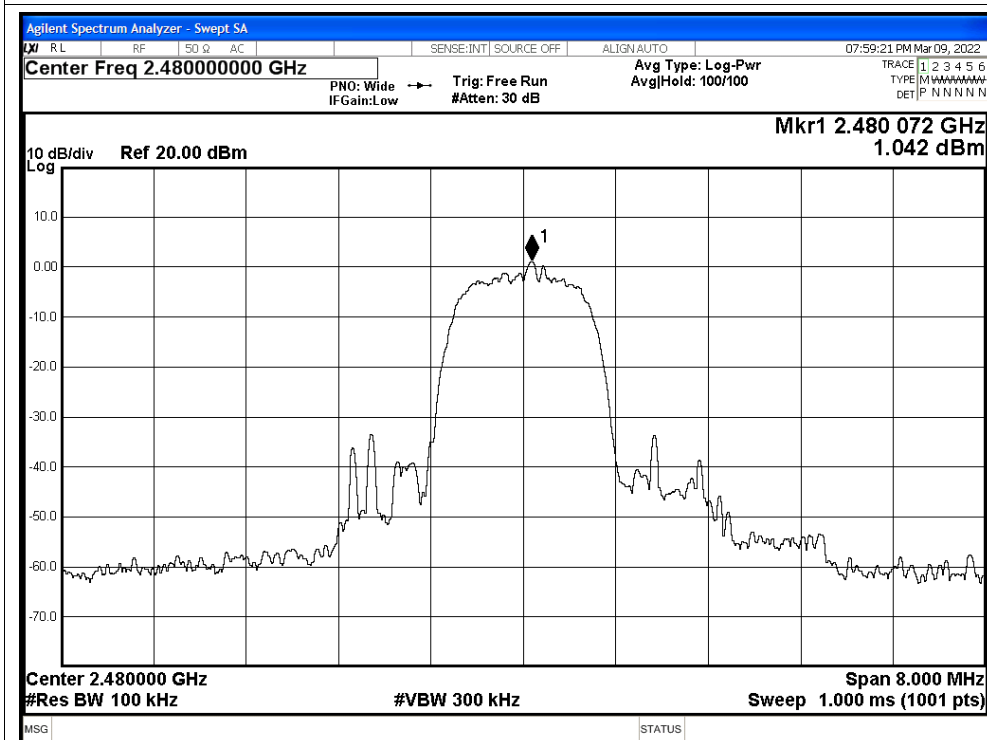


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

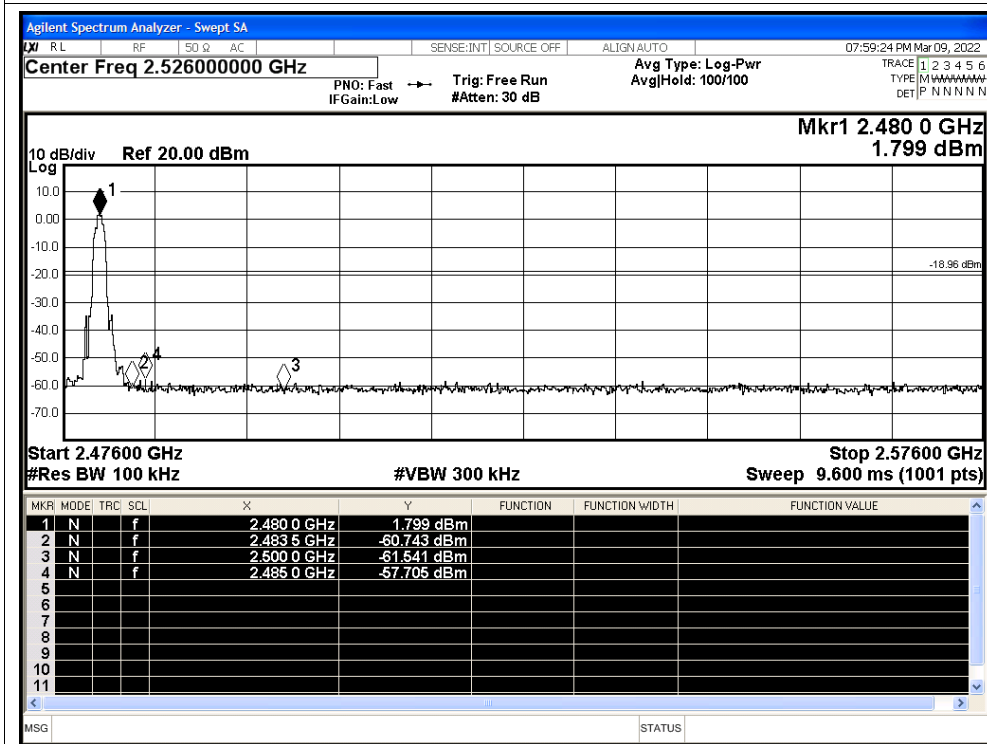




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

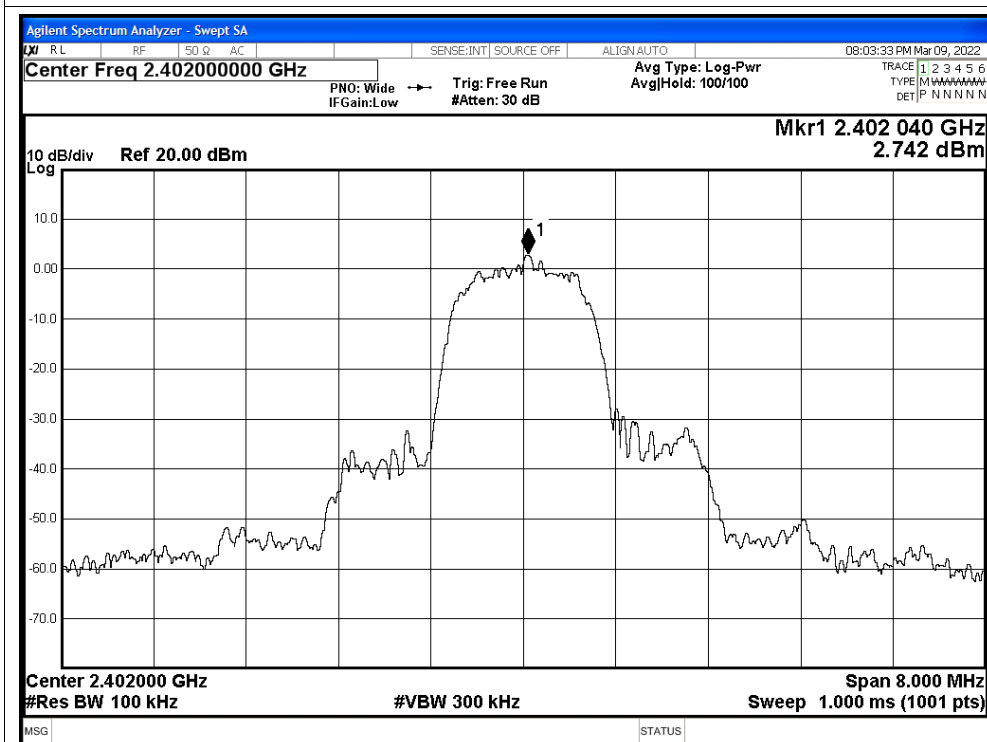


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

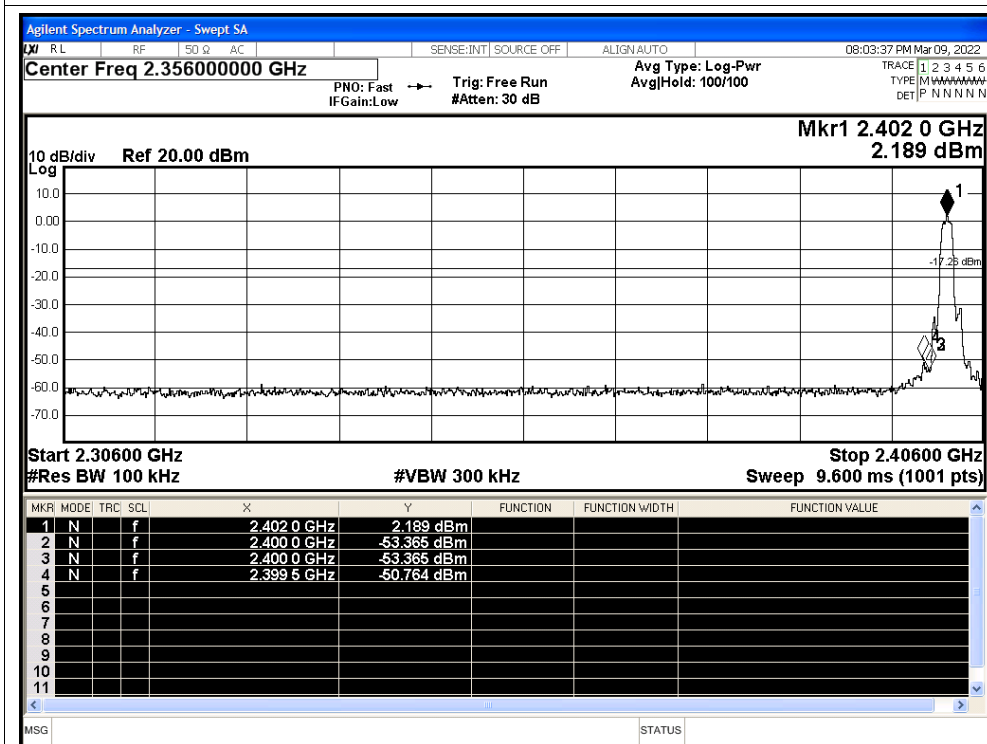




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

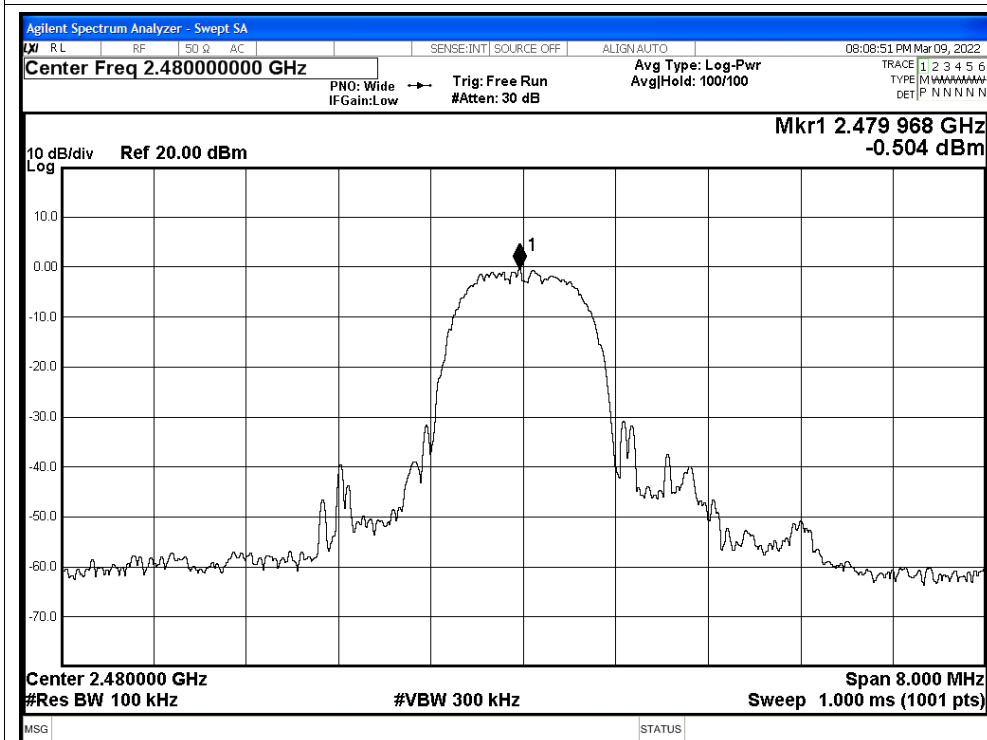


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

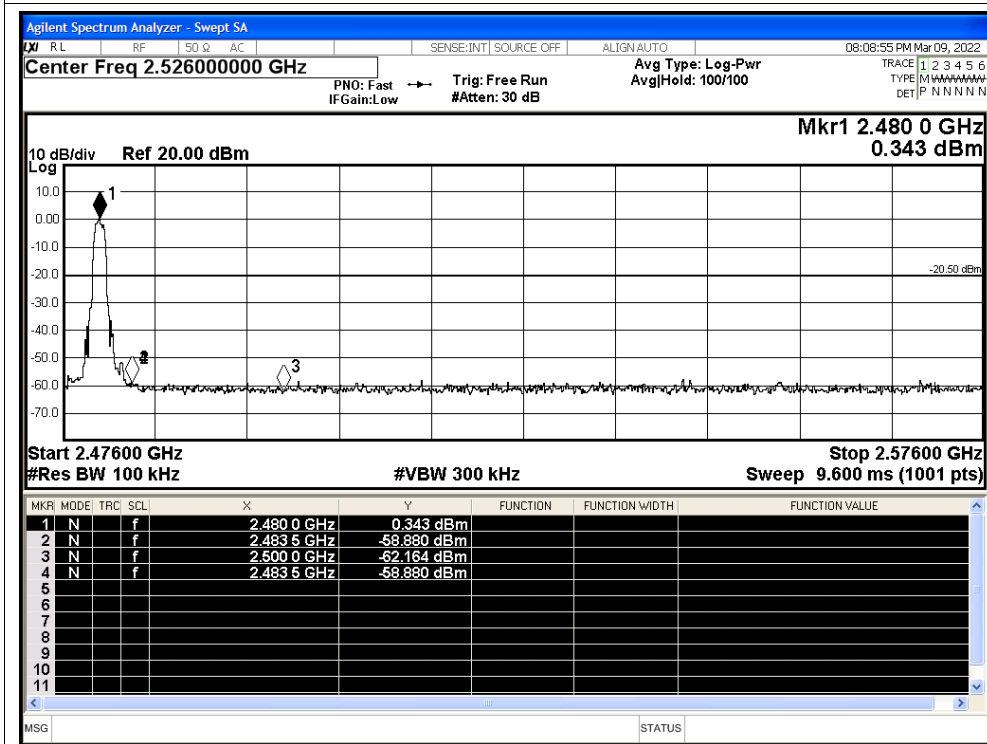




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





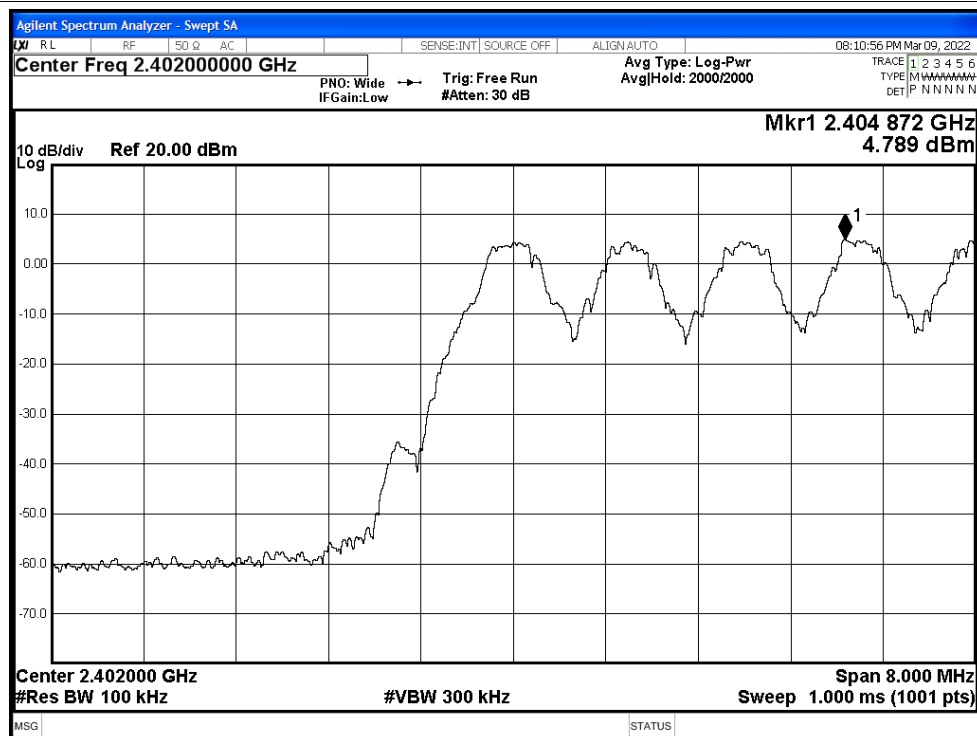
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-62.38	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.71	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-60.72	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.32	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-61.12	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.2	-20	Pass

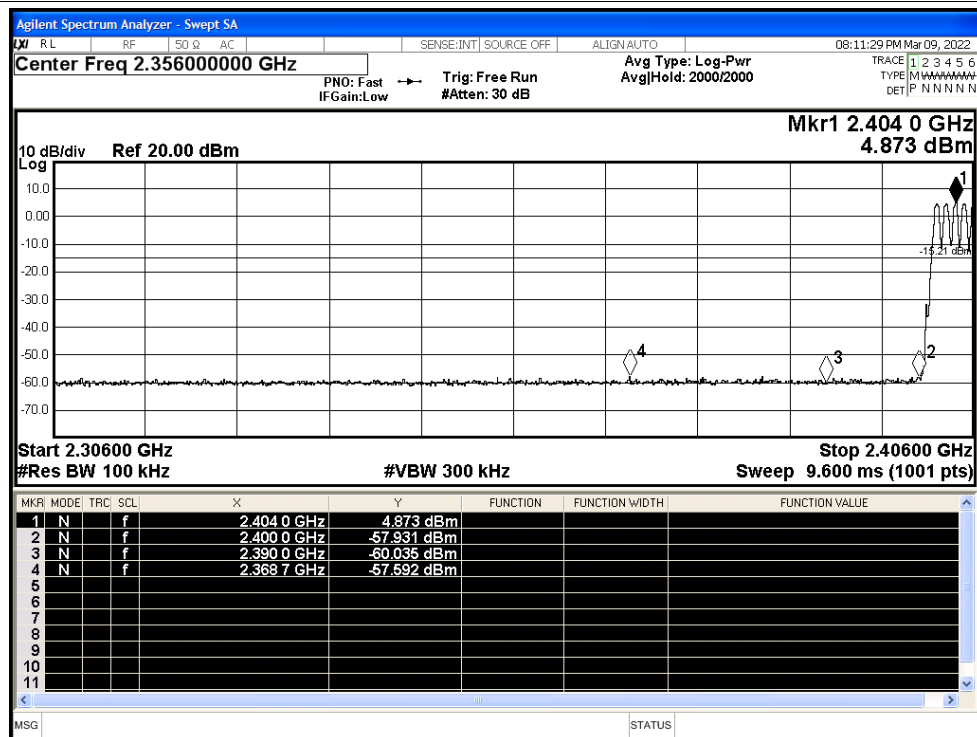


Test Graphs

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

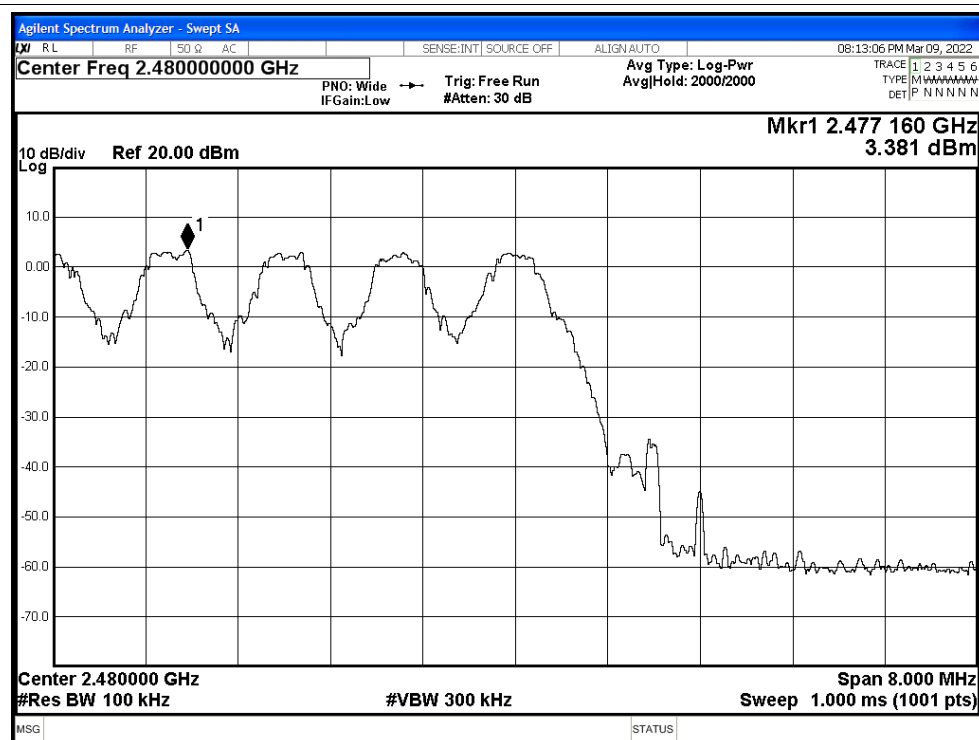


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

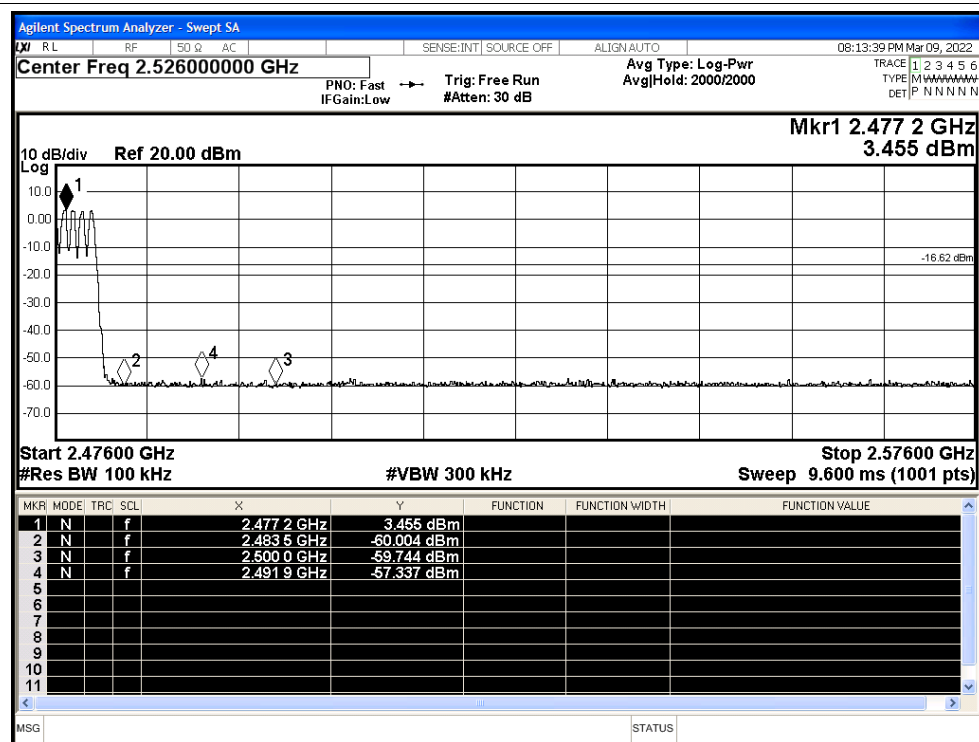




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

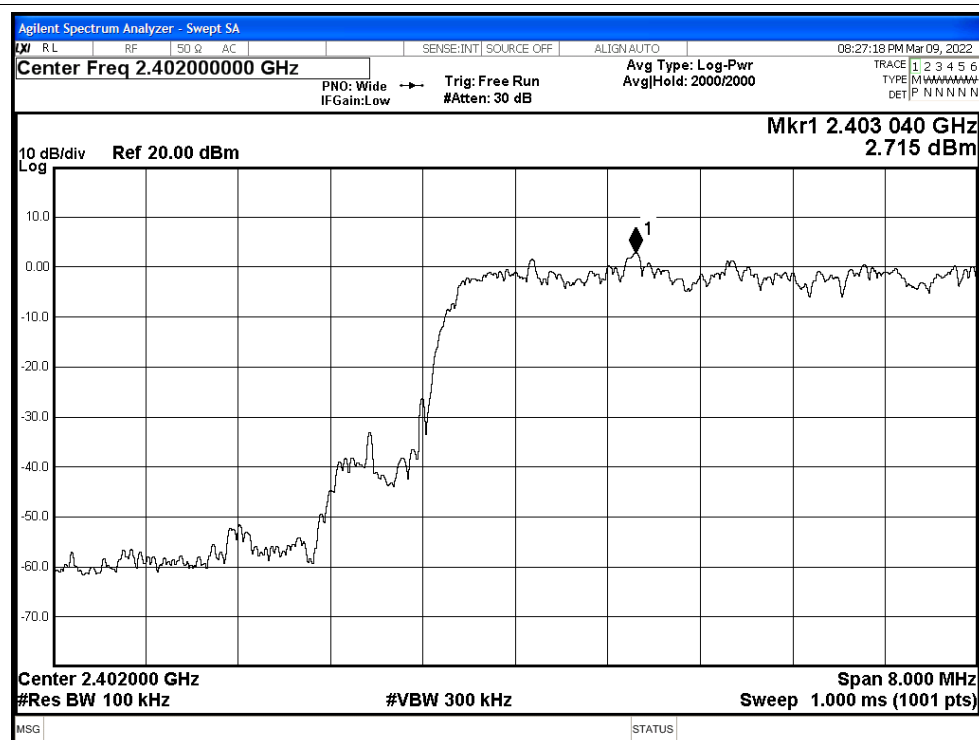


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

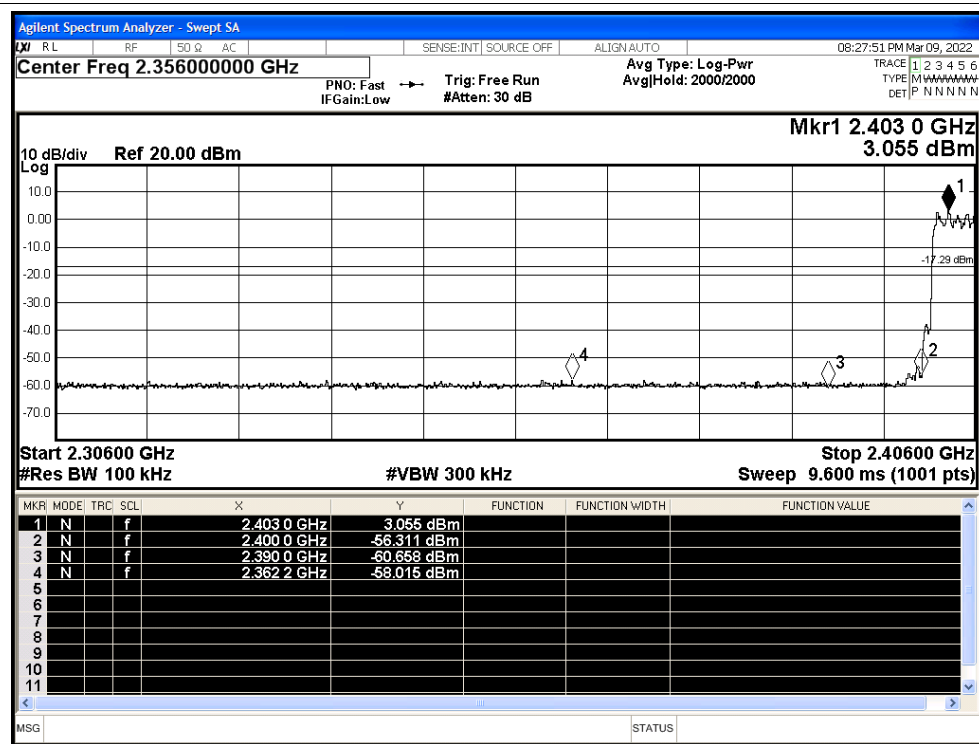




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

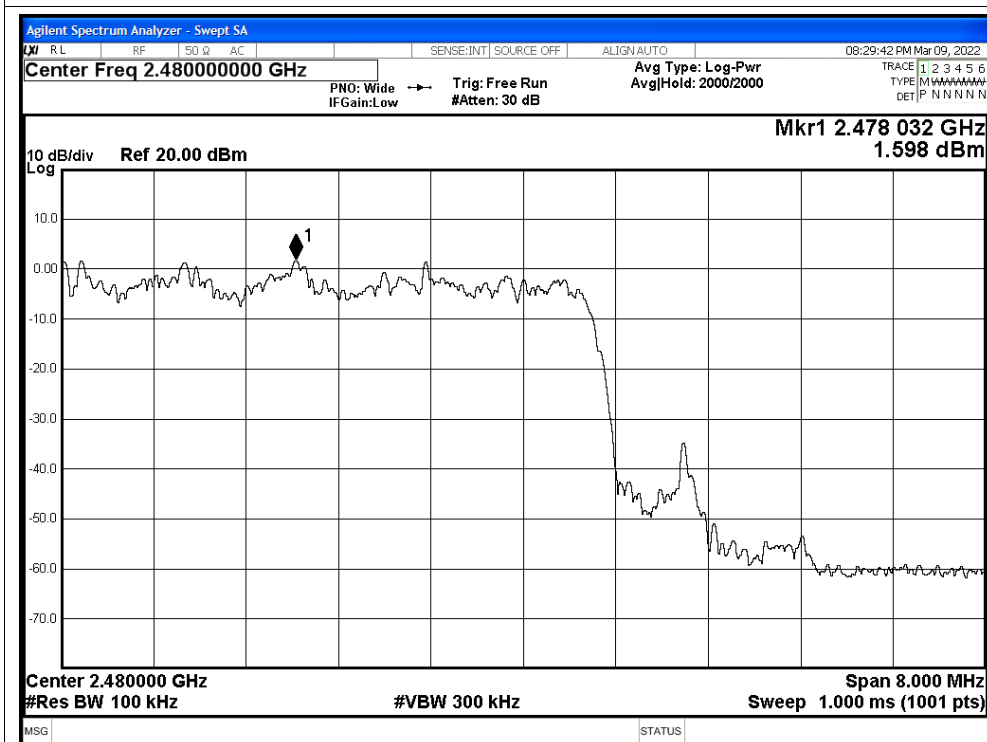


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

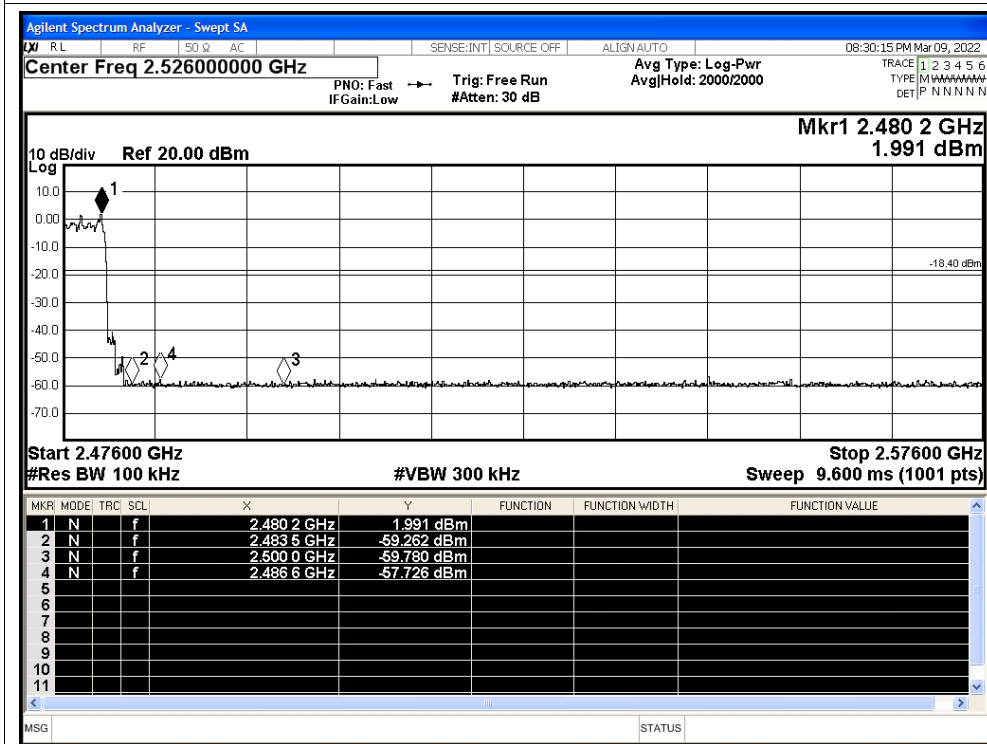




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

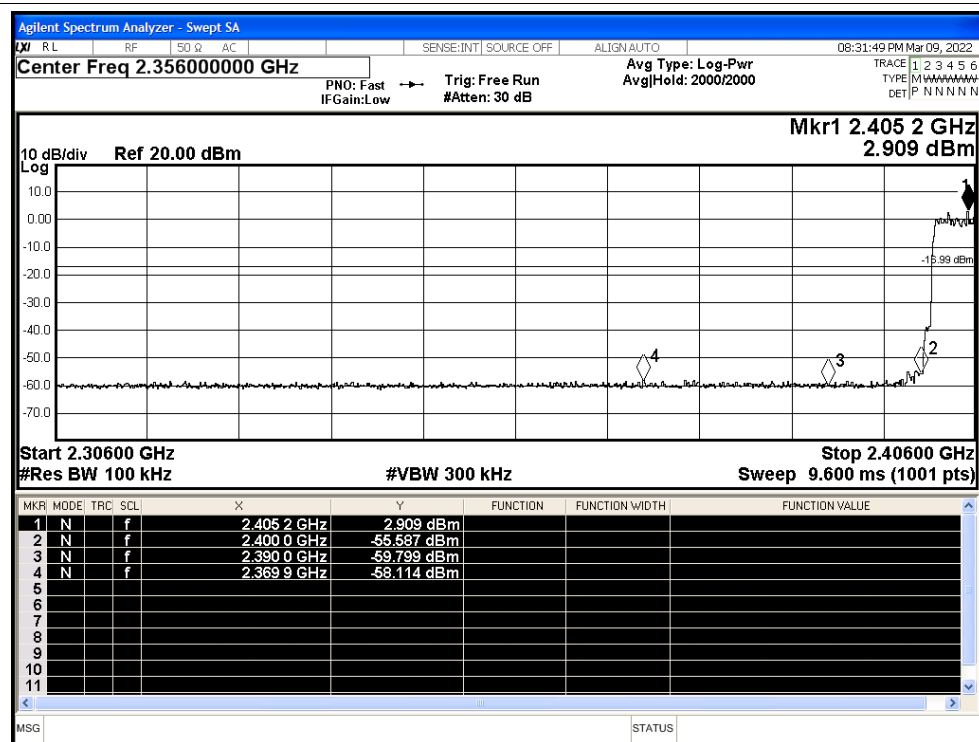




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

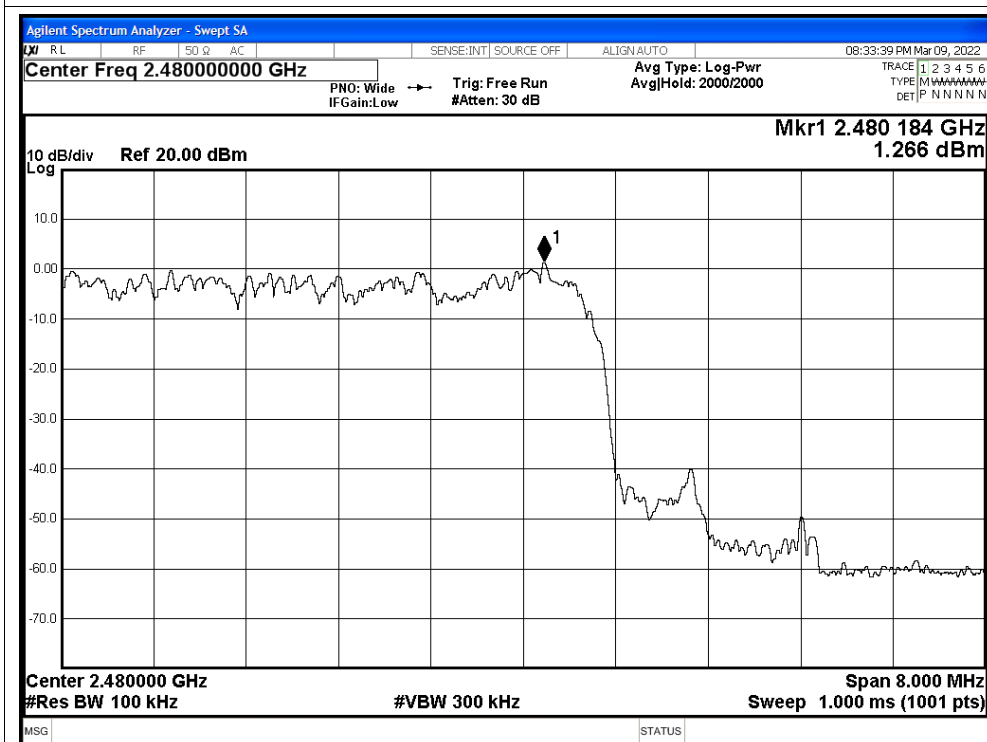


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

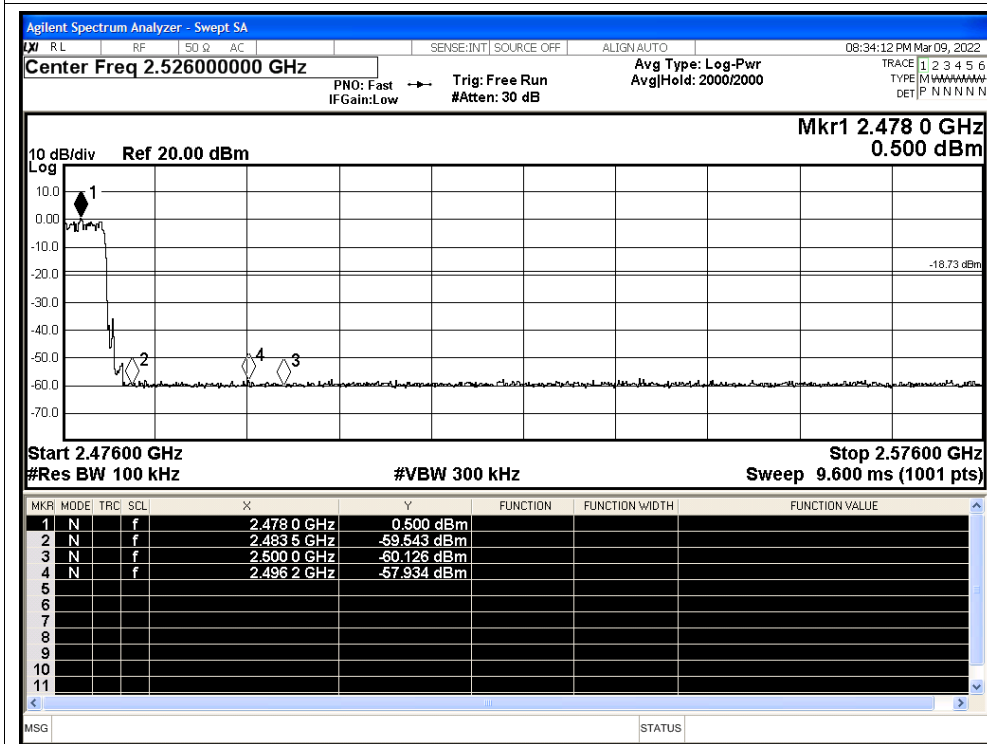




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





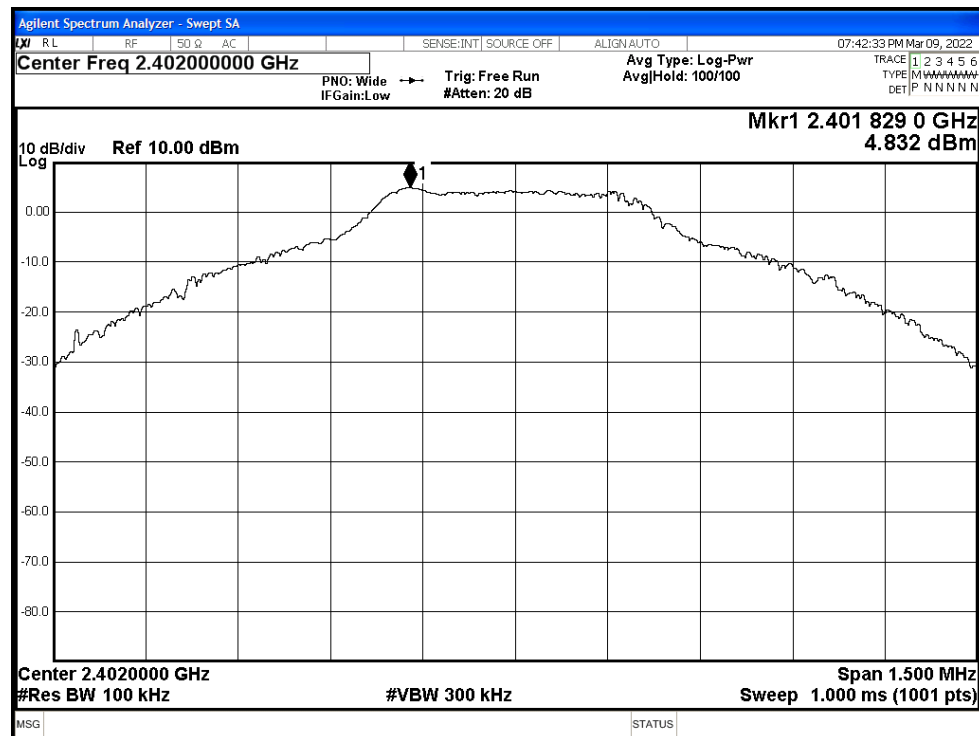
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-62.38	-20	Pass
NVNT	1-DH5	2441	Ant1	-61.11	-20	Pass
NVNT	1-DH5	2480	Ant1	-60.89	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.92	-20	Pass
NVNT	2-DH5	2441	Ant1	-59.93	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.87	-20	Pass
NVNT	3-DH5	2402	Ant1	-60.77	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.71	-20	Pass
NVNT	3-DH5	2480	Ant1	-59.05	-20	Pass

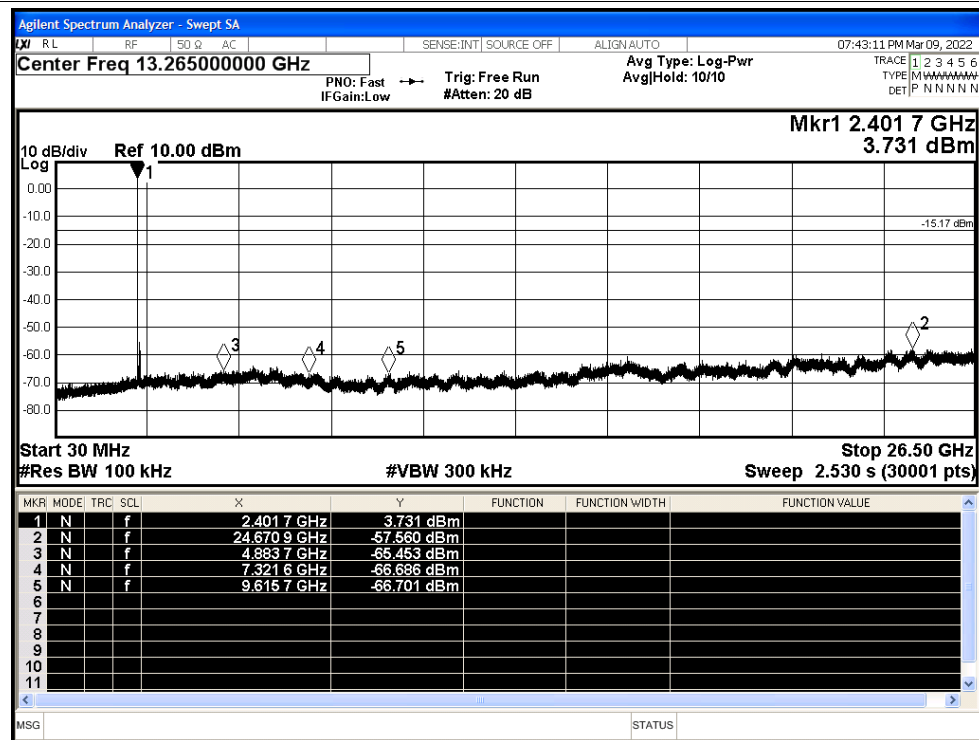


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

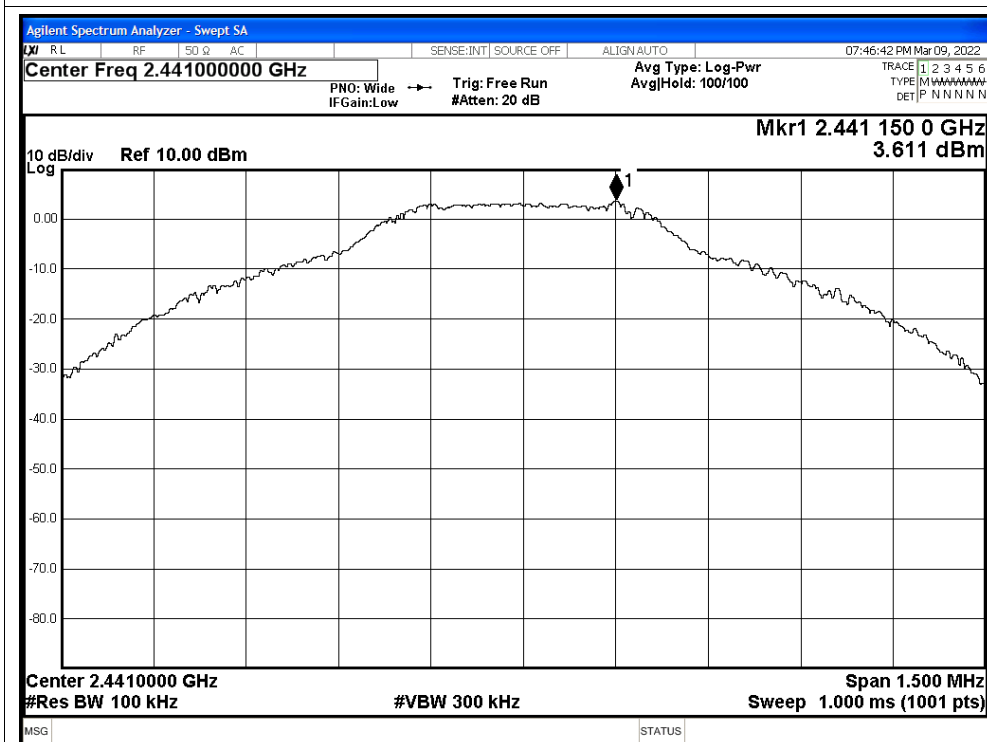


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

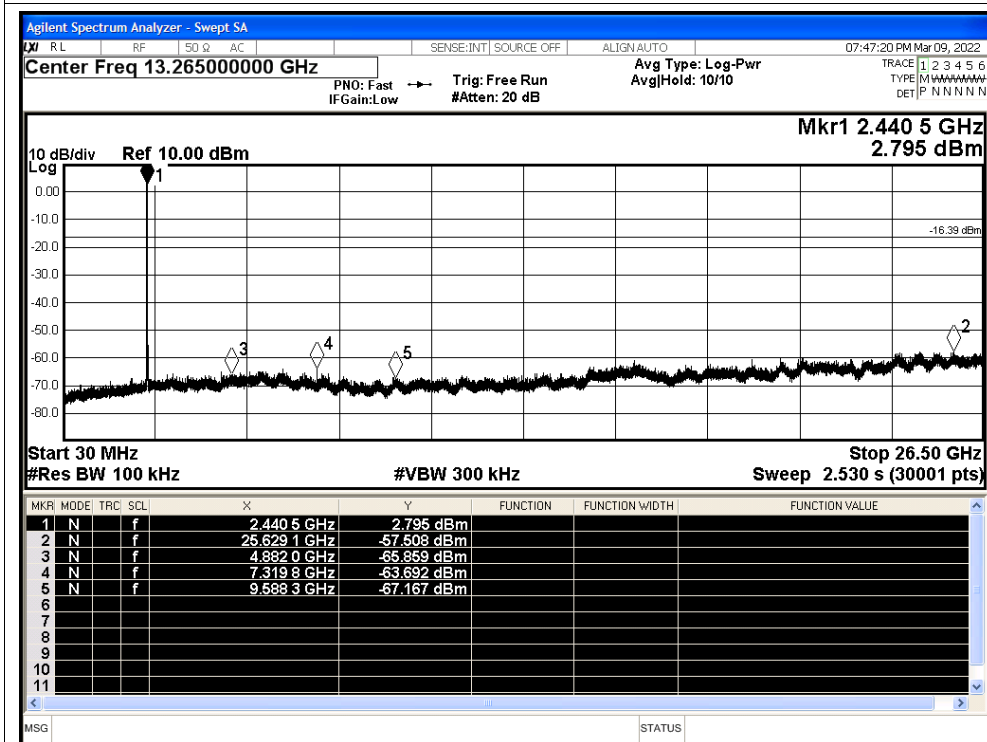




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

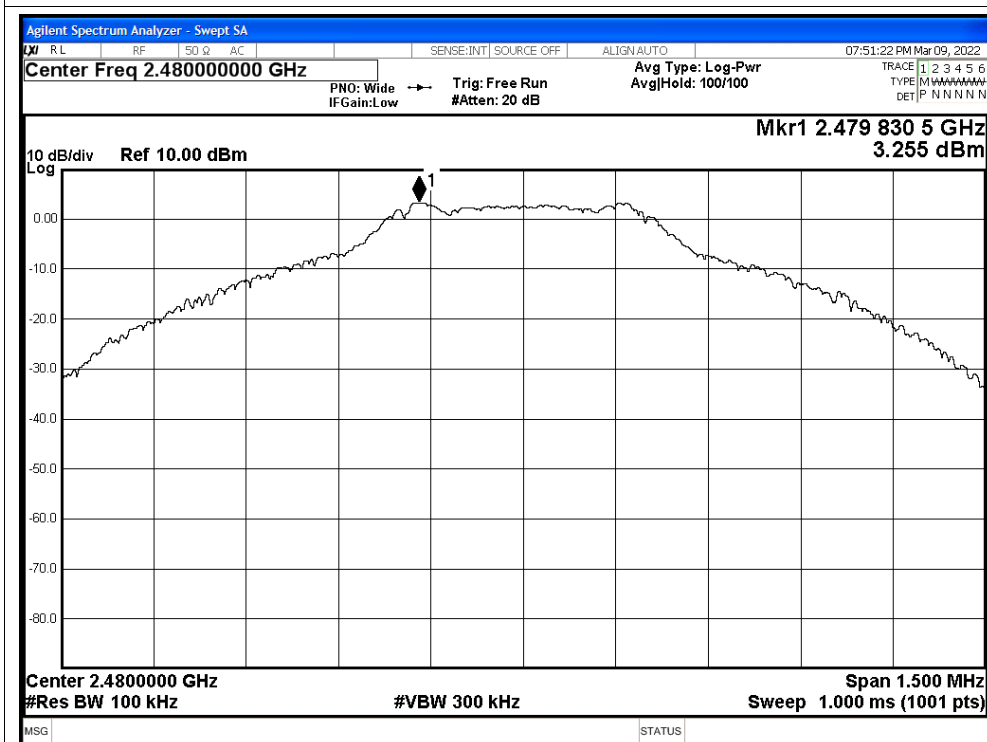


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

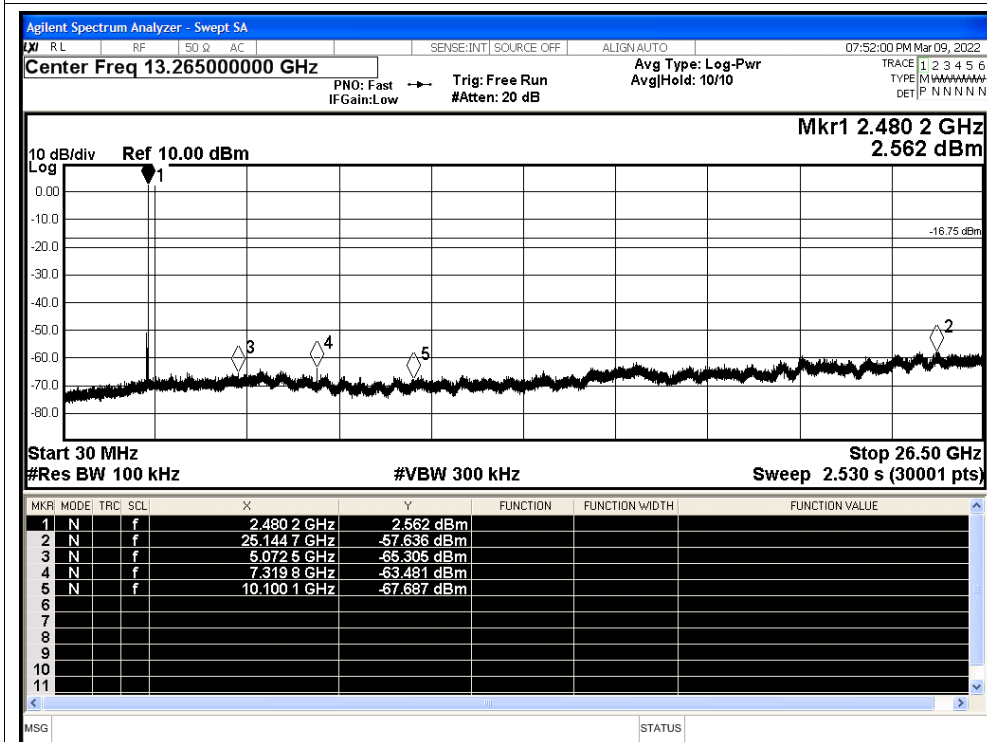




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

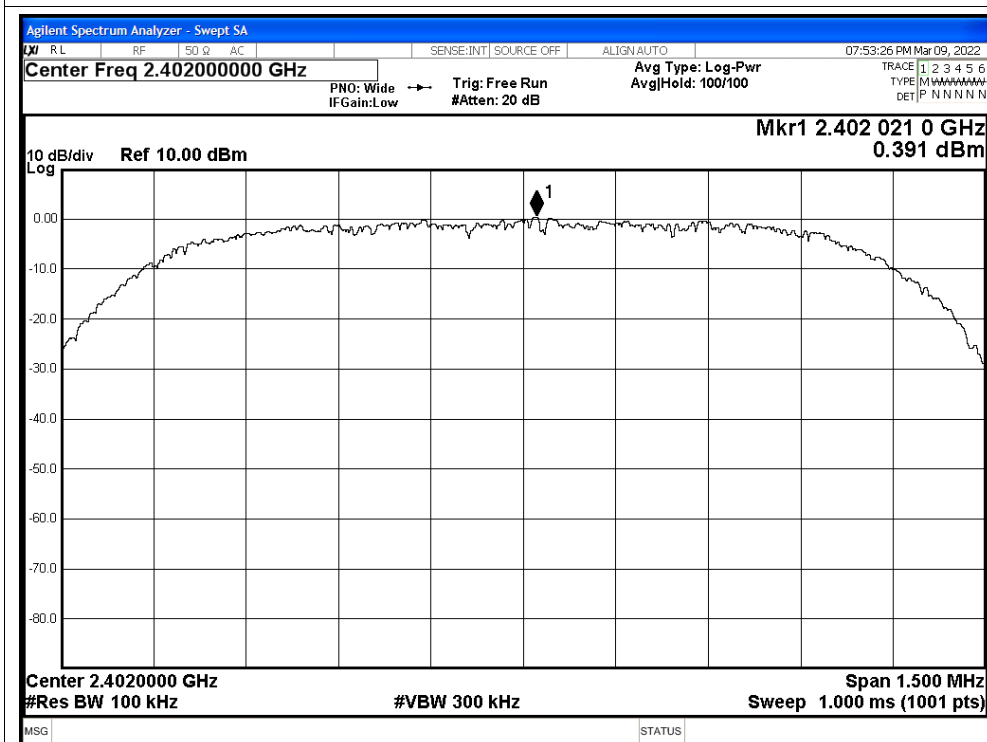


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

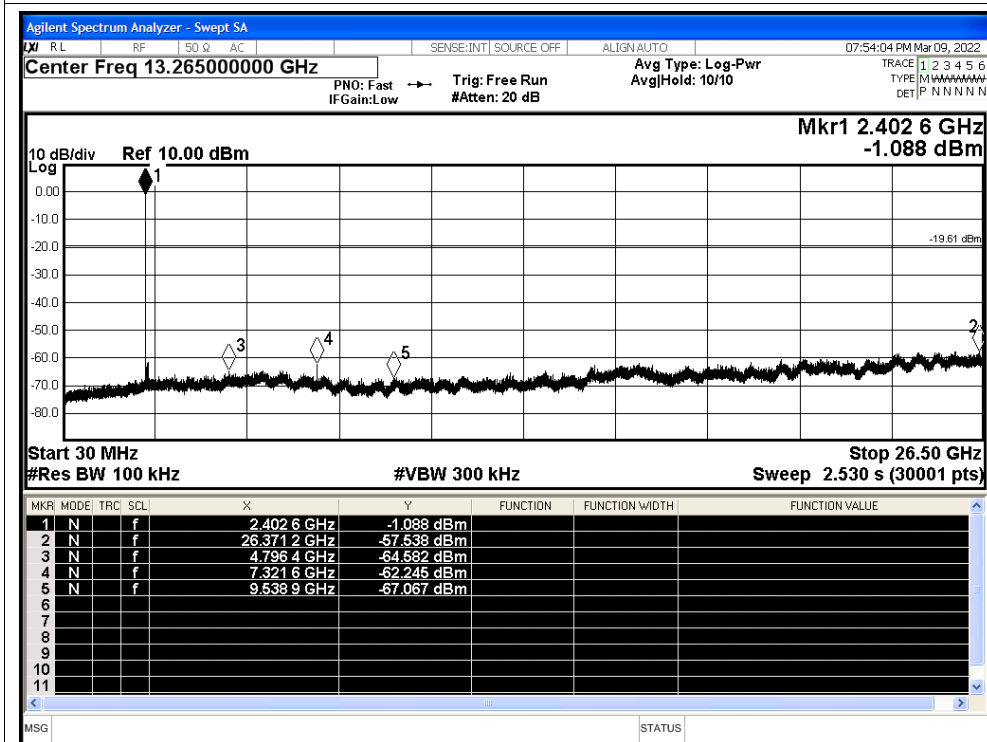




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

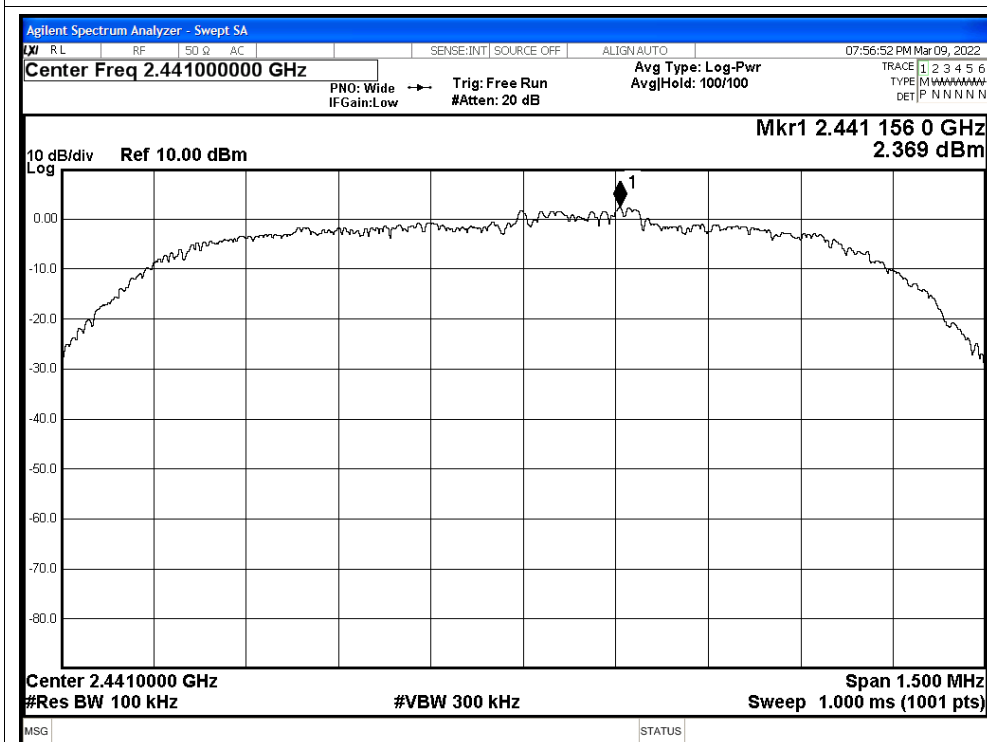


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

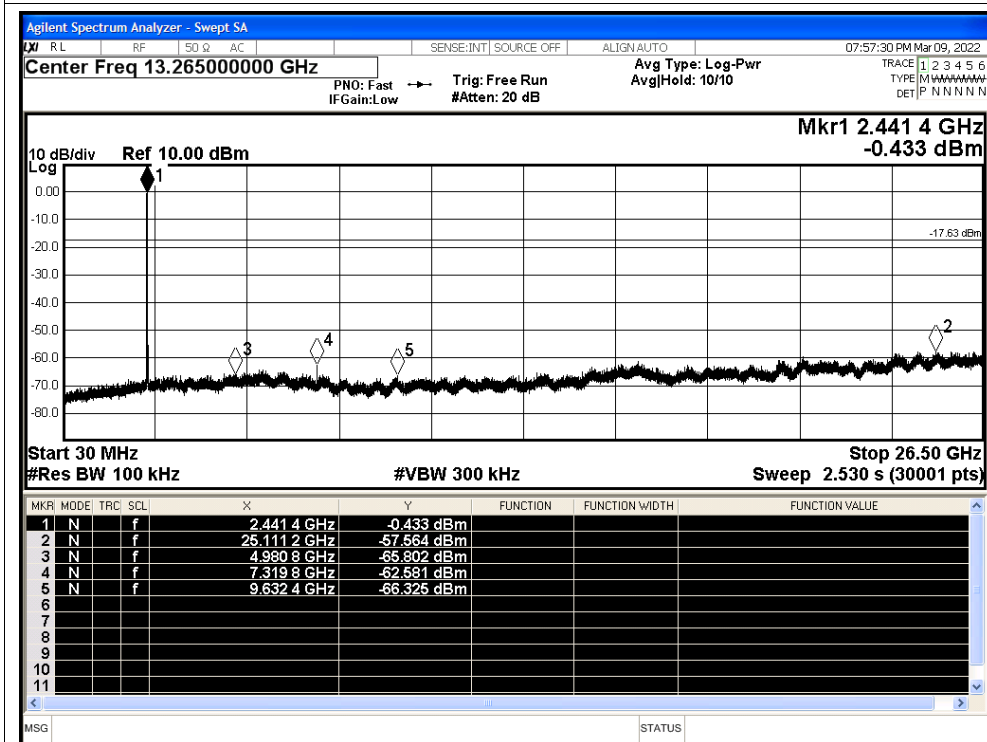




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

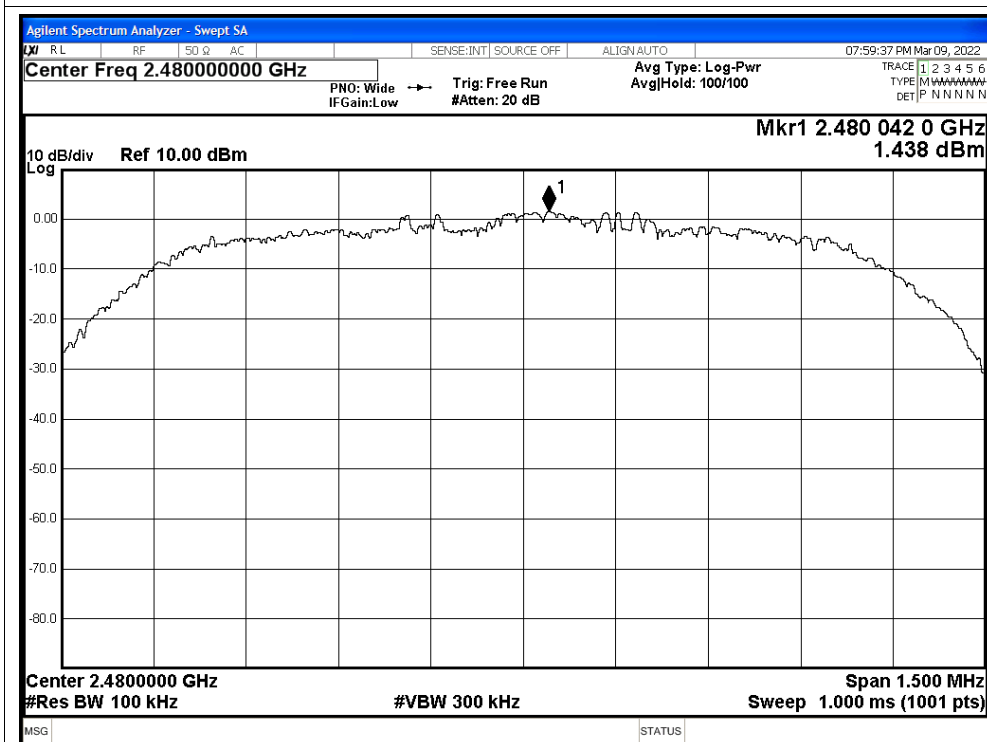


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

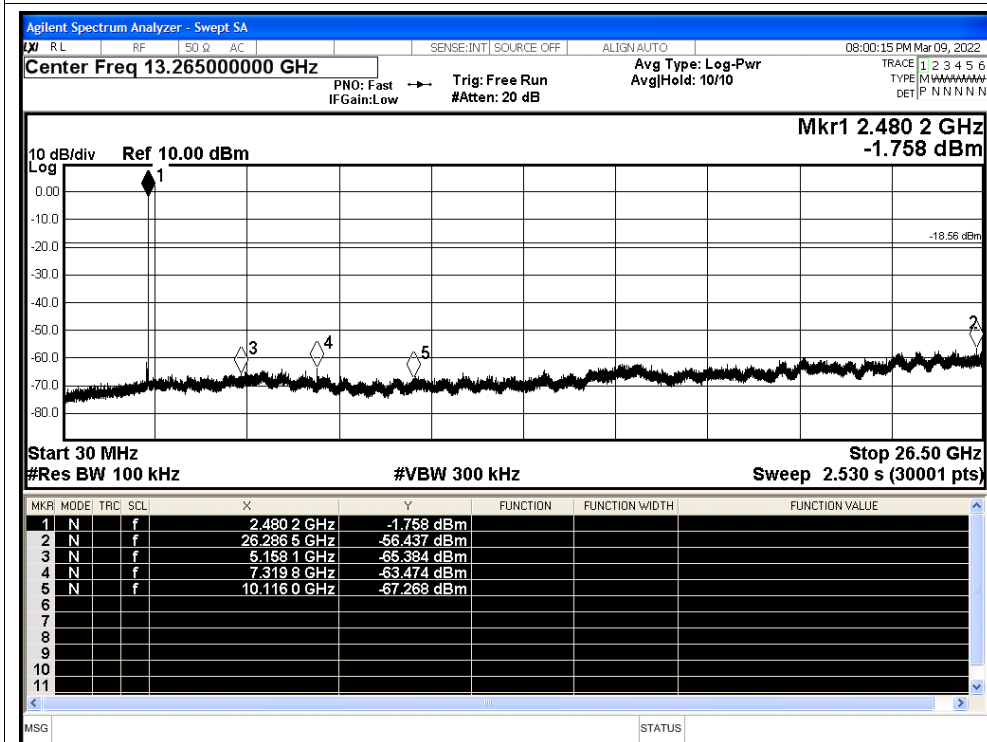




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

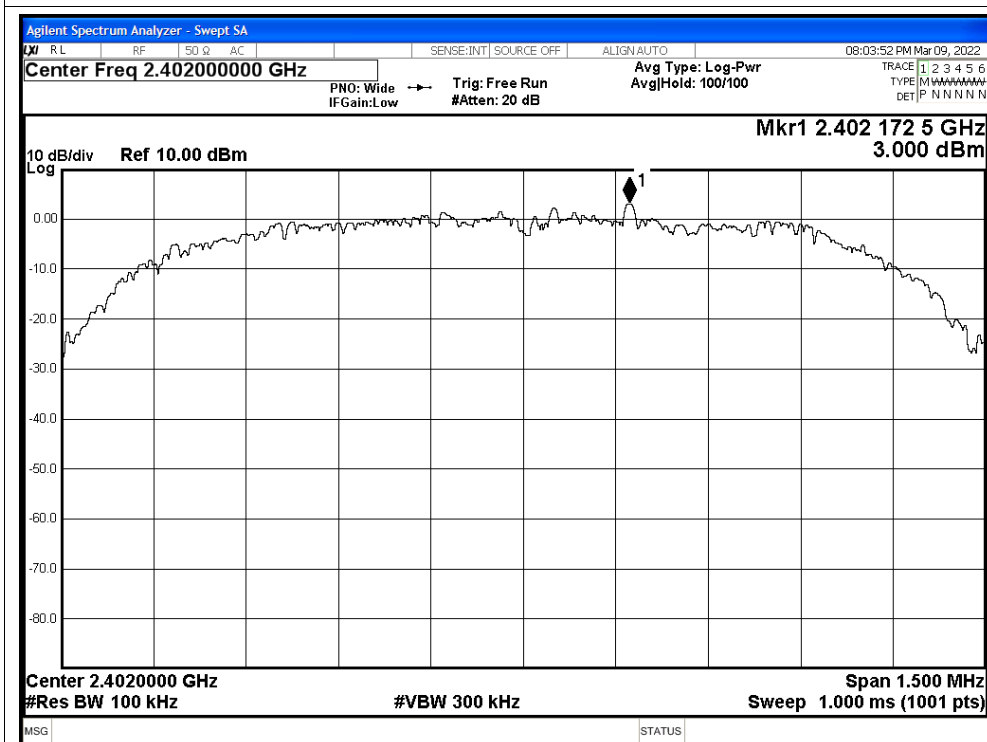


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

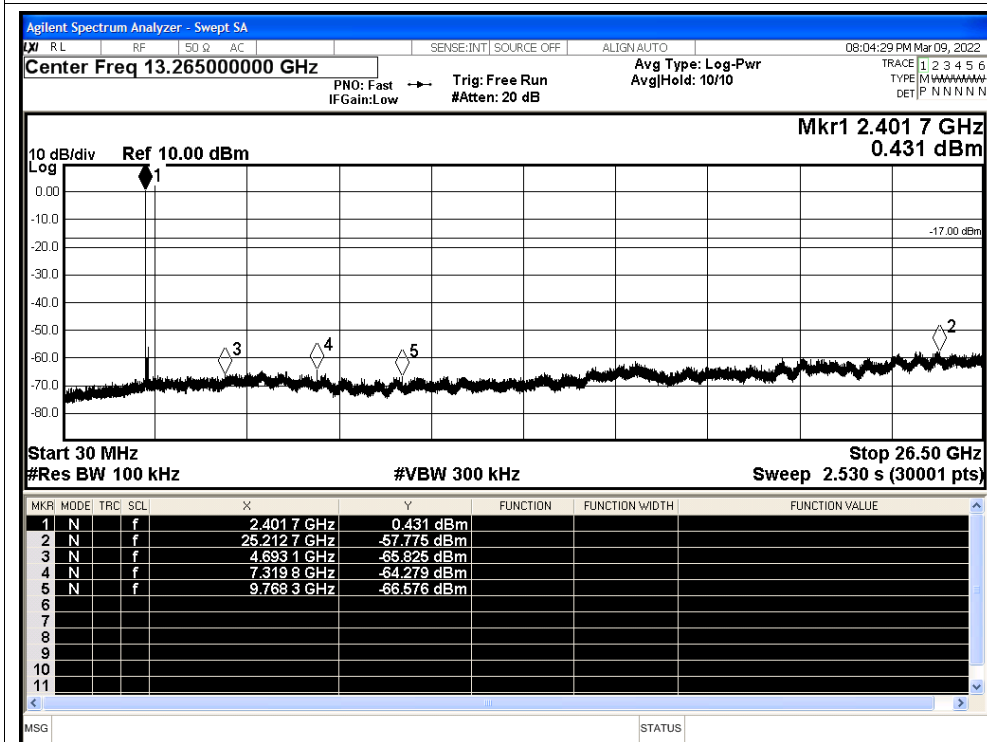




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

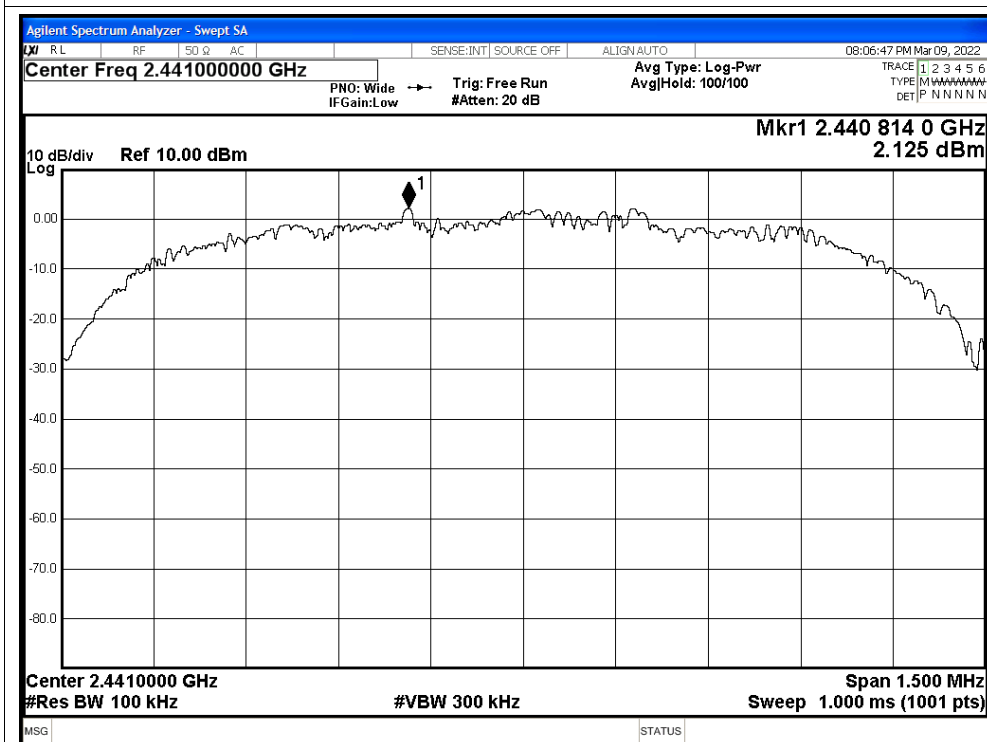


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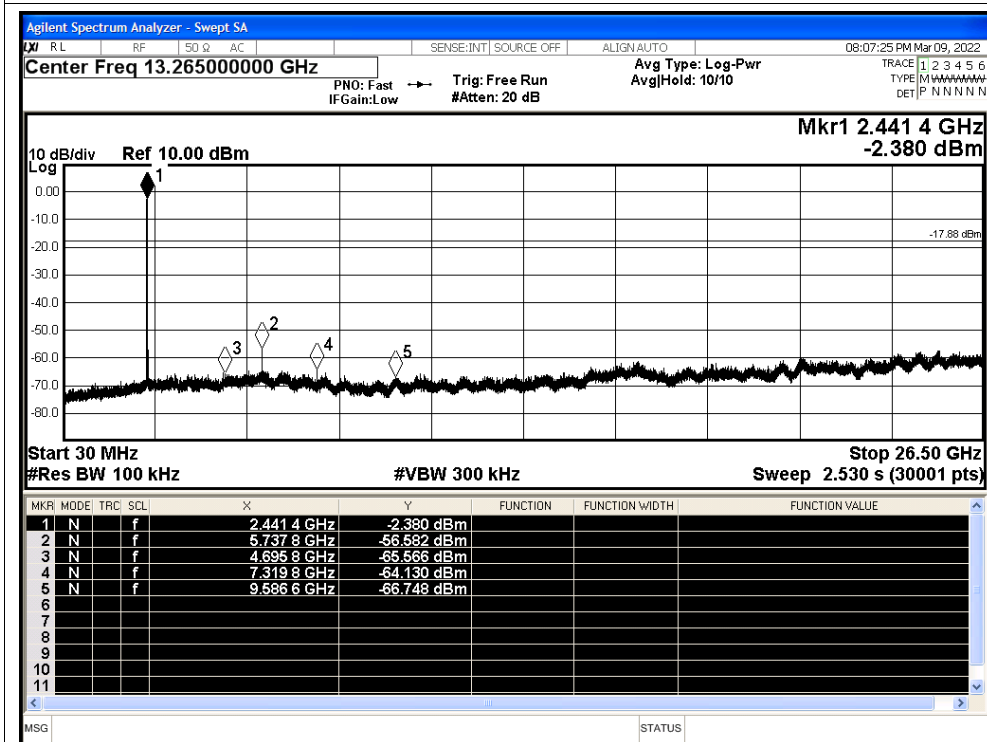




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

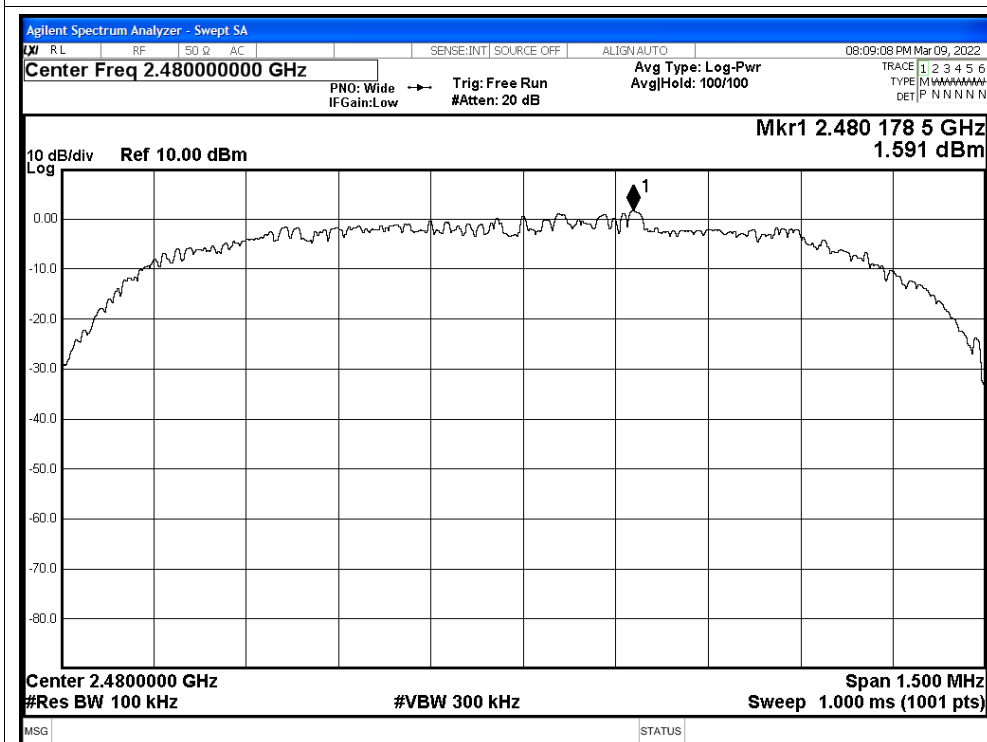


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

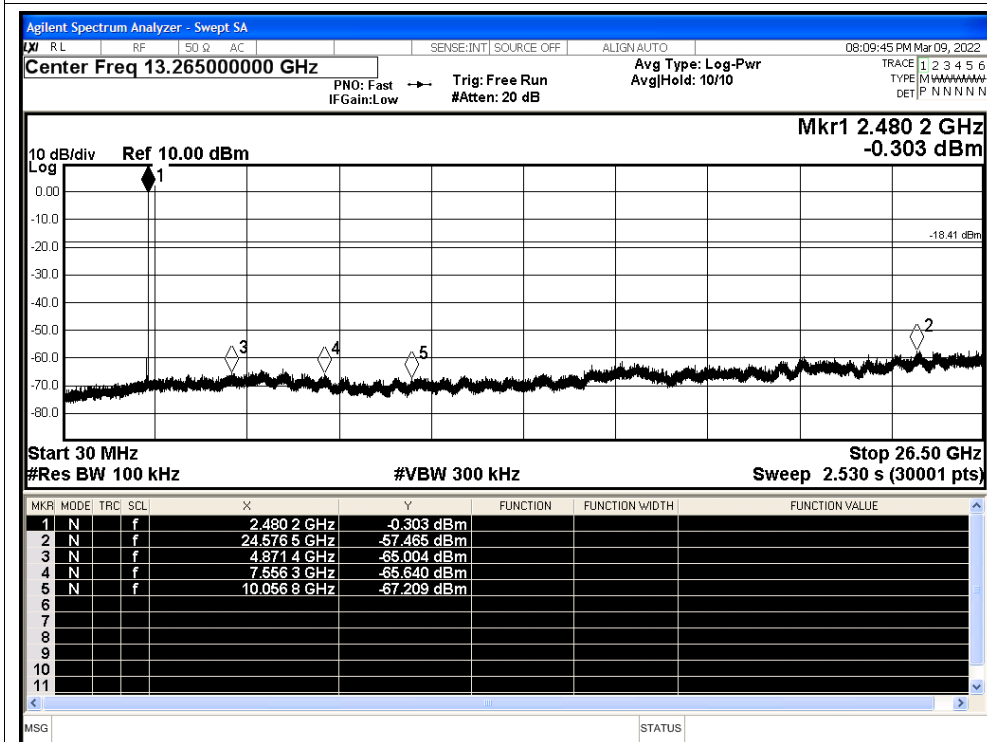




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





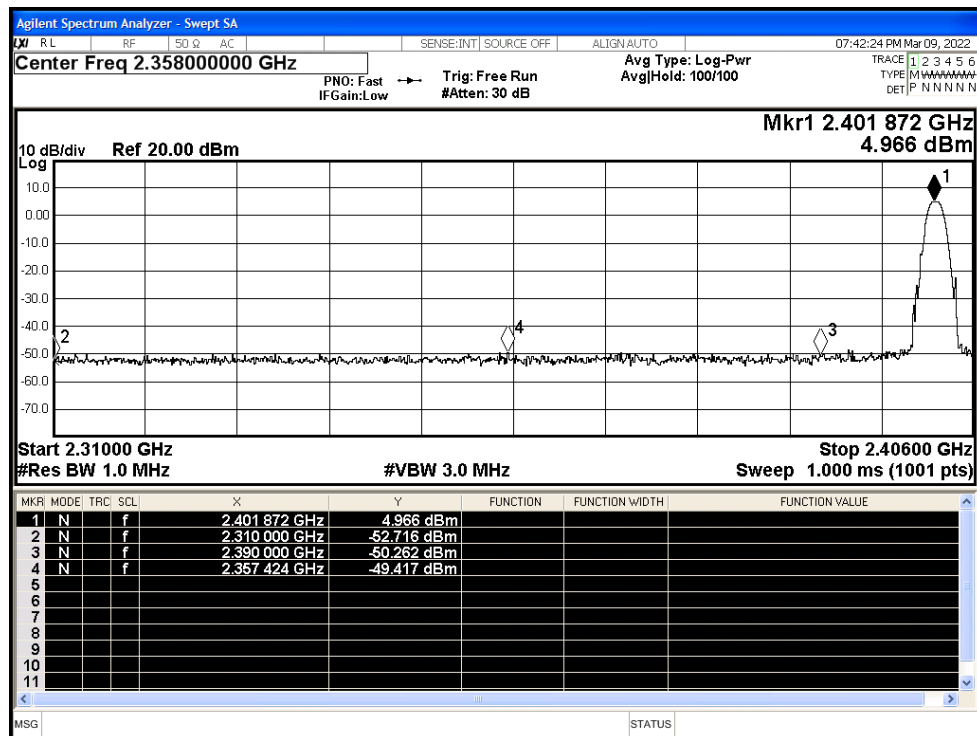
A.8 Restrict Band

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	-52.71	2	44.55	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.09	2	35.17	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2357.424	-49.41	2	47.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.136	-61.59	2	35.67	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.97	2	46.29	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.74	2	35.52	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.42	2	46.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-60.07	2	37.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494.936	-48.77	2	48.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-60.07	2	37.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-52.67	2	44.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.71	2	35.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.26	2	45	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.01	2	35.25	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2326.608	-49.11	2	48.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.672	-61.57	2	35.69	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-53.75	2	43.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.78	2	35.48	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.18	2	47.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-60.24	2	37.02	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.76	-48.38	2	48.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-60.17	2	37.09	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.1	2	46.16	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.76	2	35.5	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.46	2	44.8	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.06	2	35.2	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2365.296	-49.62	2	47.64	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.704	-61.49	2	35.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-52.15	2	45.11	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.67	2	35.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.8	2	46.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-60.14	2	37.12	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.4	-48.64	2	48.62	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-60.14	2	37.12	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.89	2	45.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.65	2	35.61	Average	54	Pass

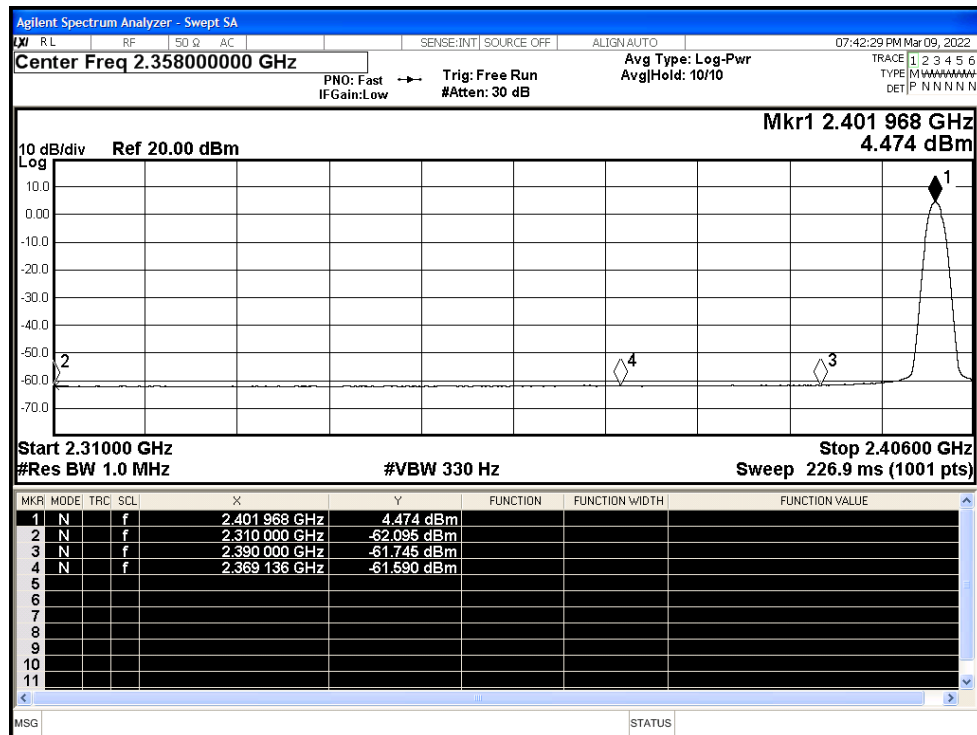


Test Graphs

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

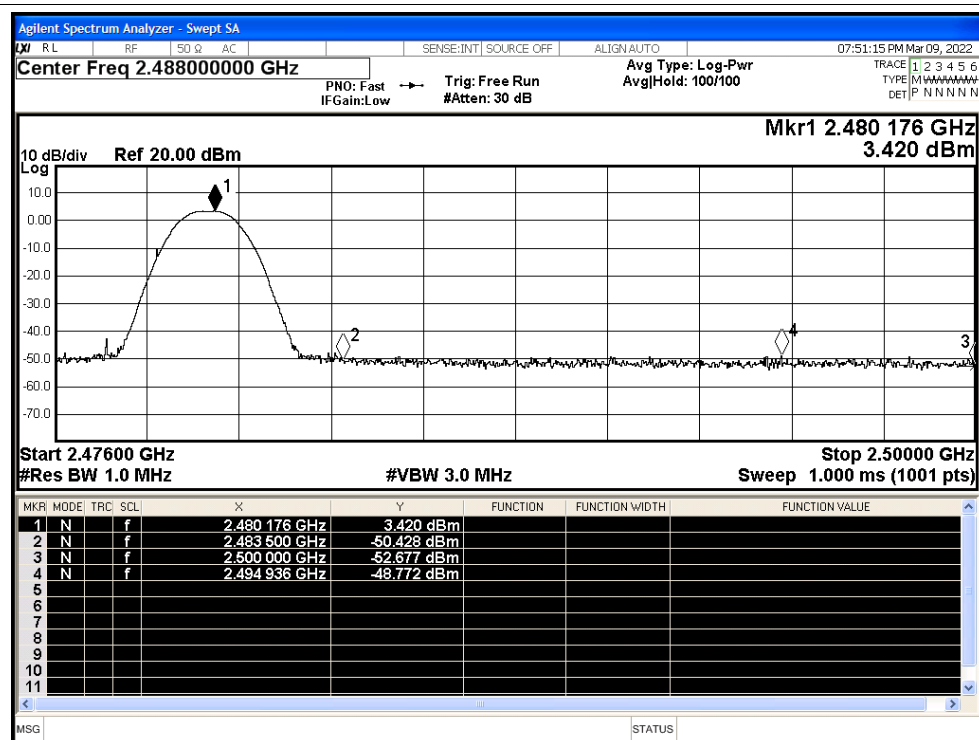


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

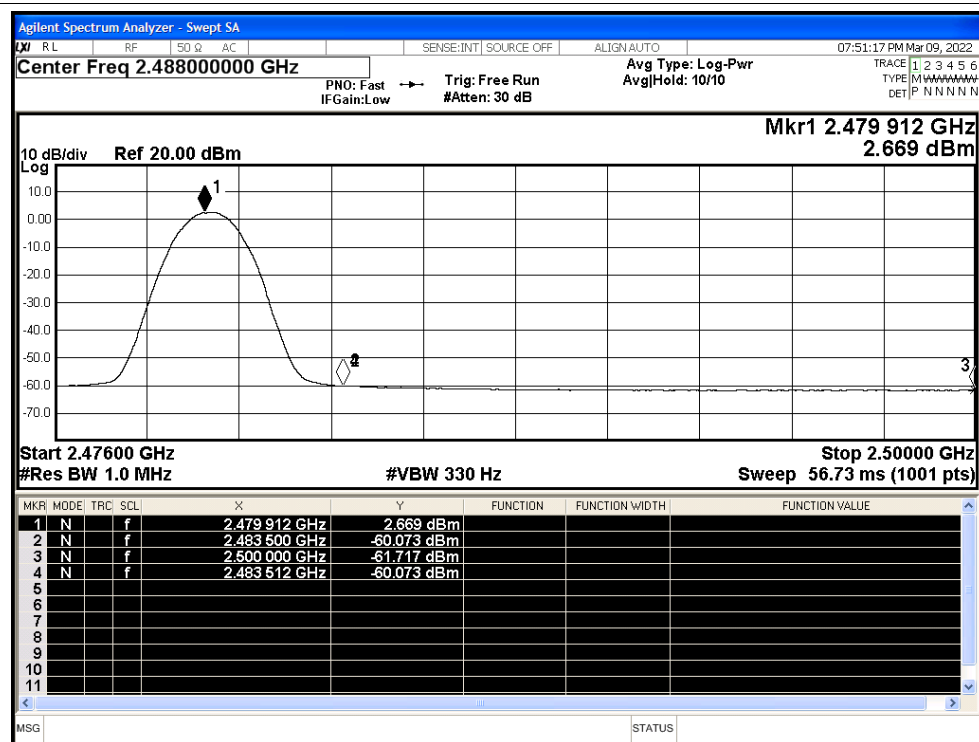




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

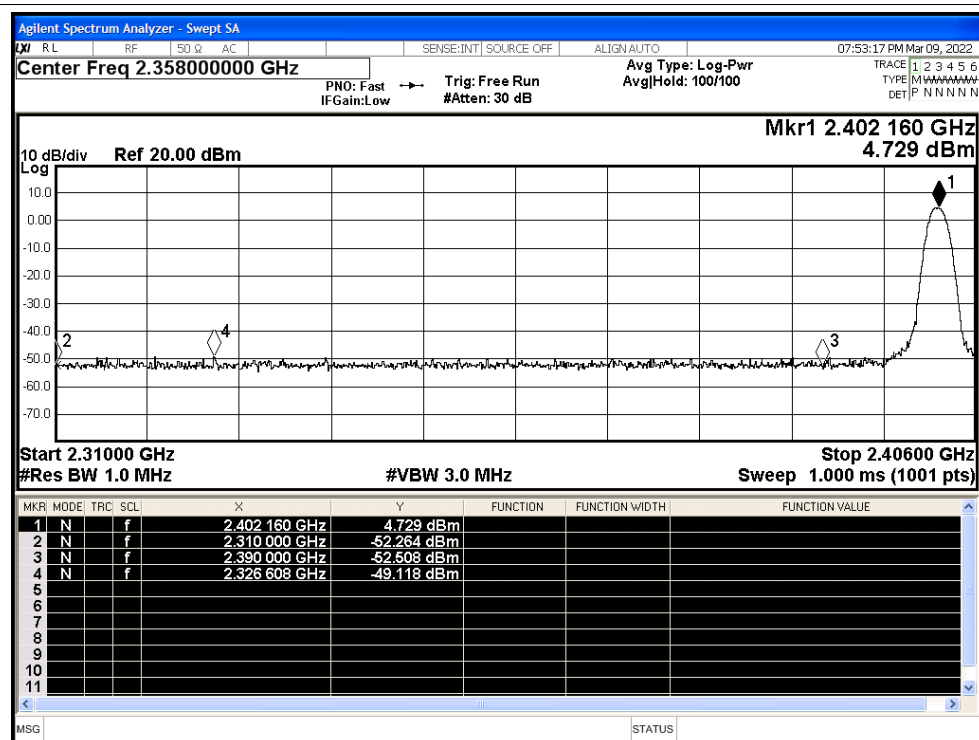


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

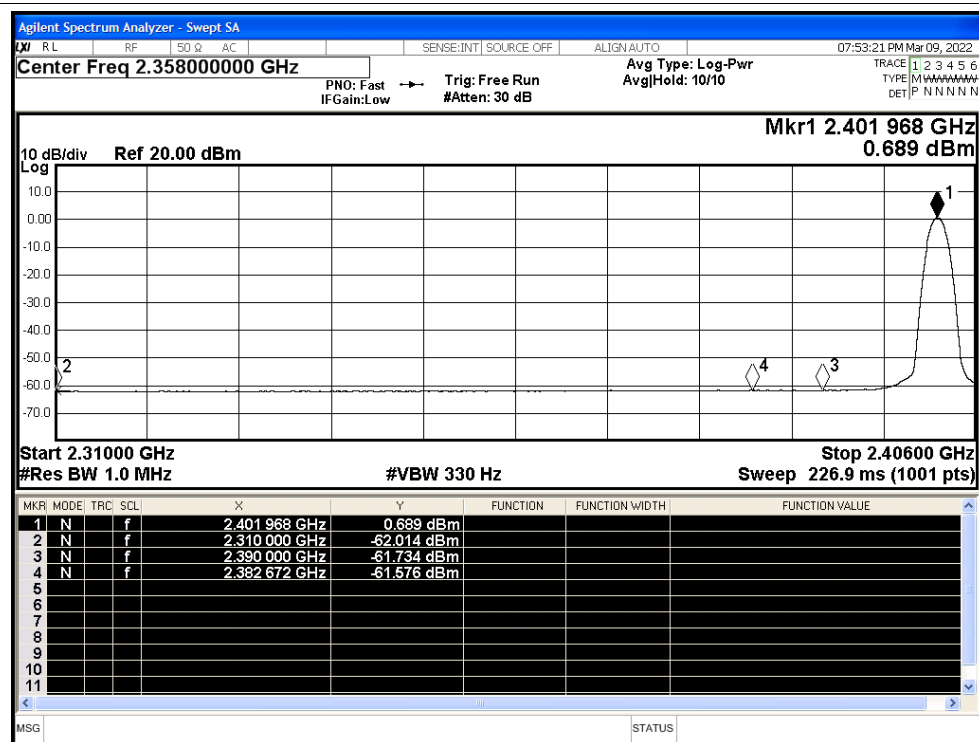




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

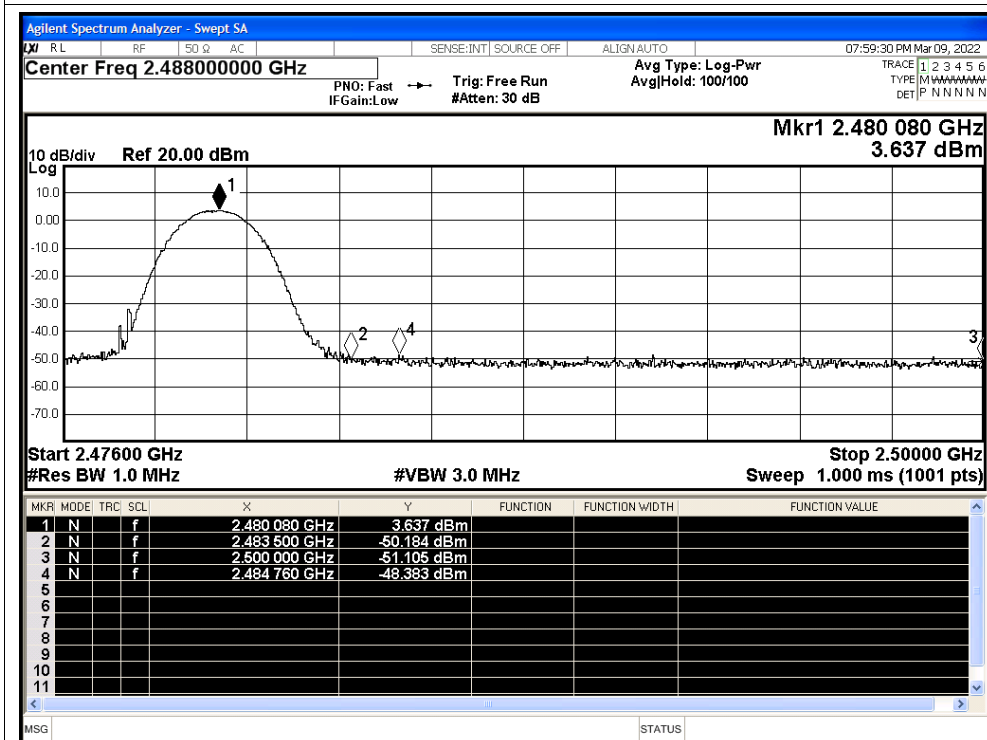


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

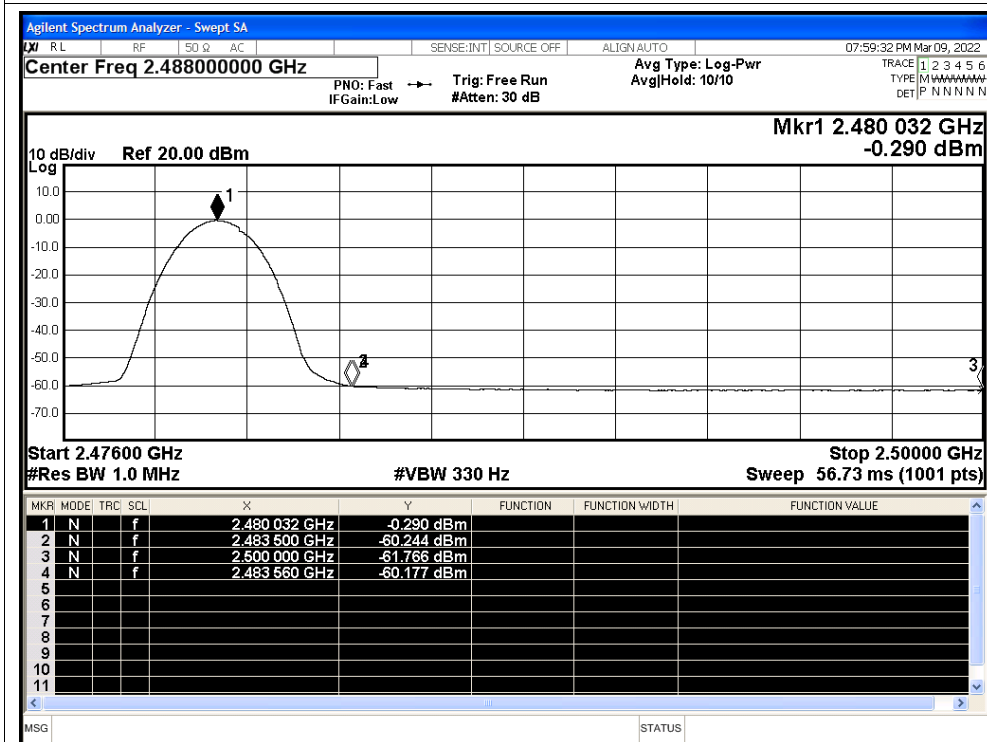




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

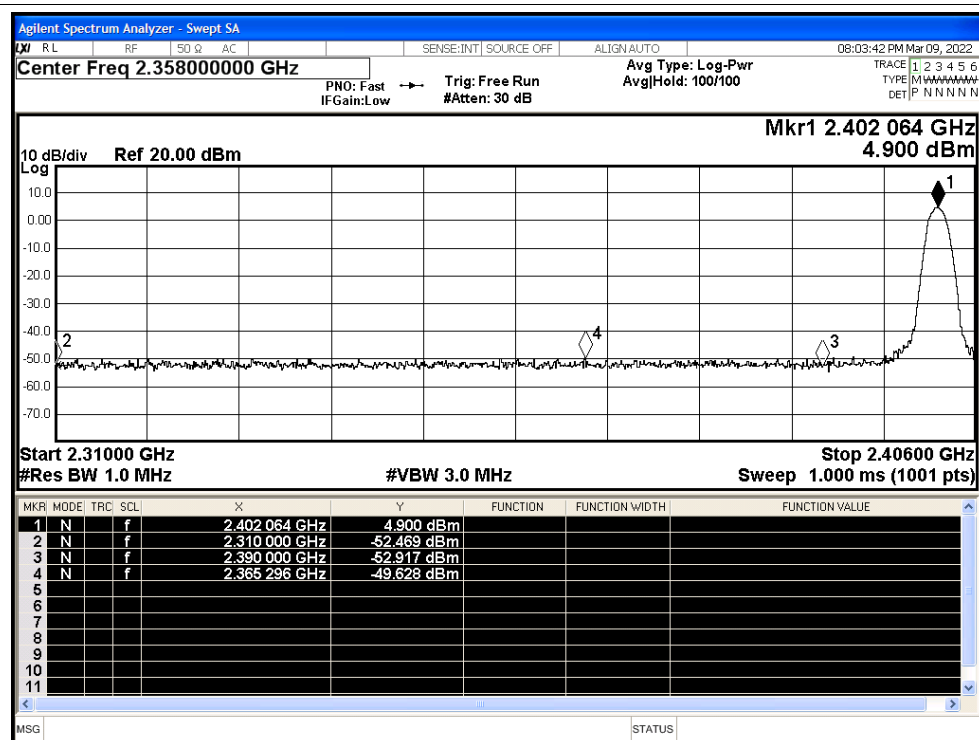


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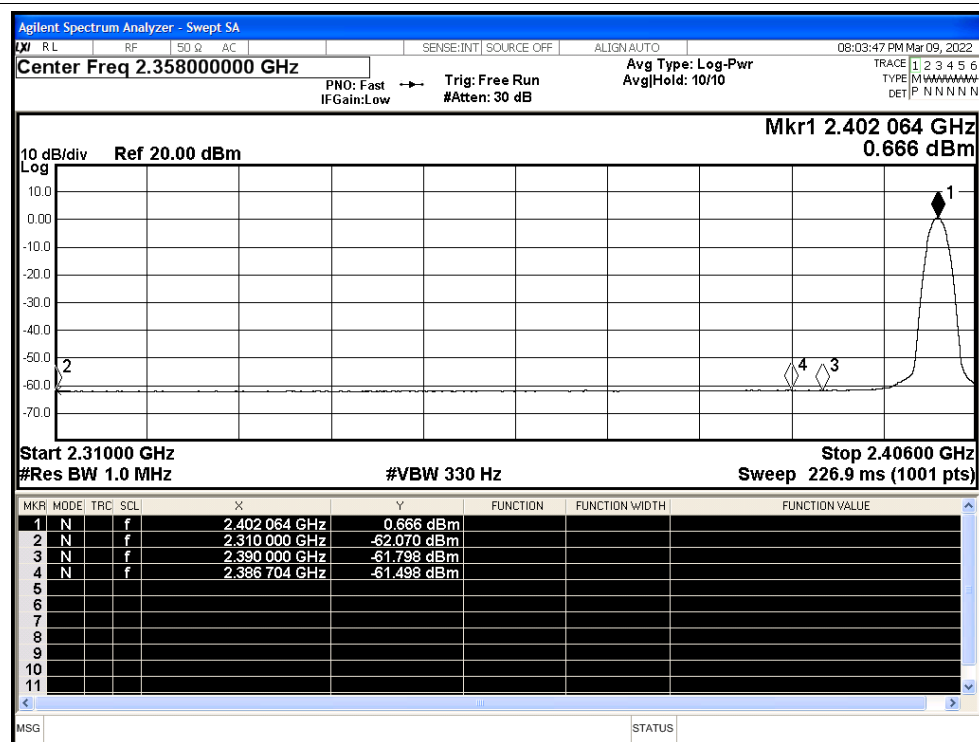




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

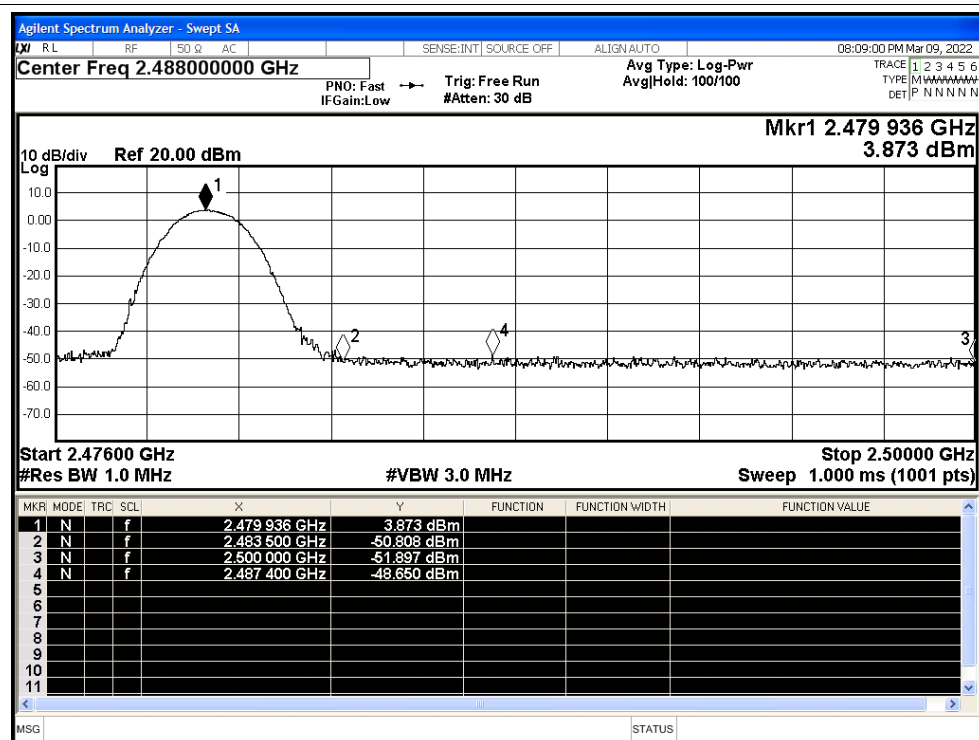


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

