



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable speaker

Test Model: P1

Environmental Conditions

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





A.1 -20dB Bandwidth

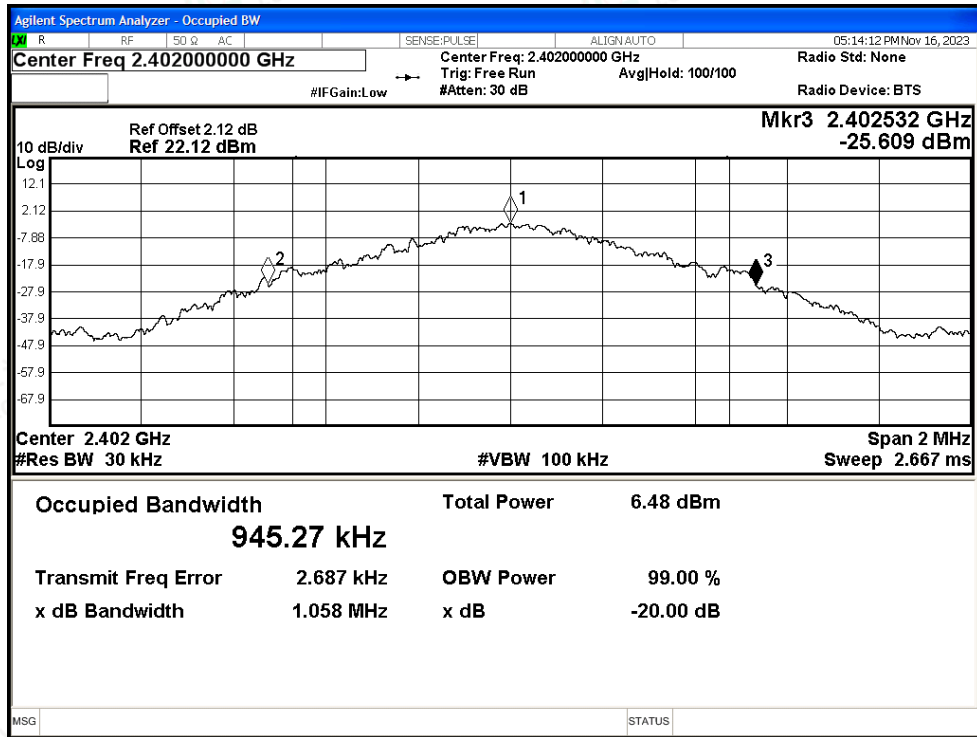
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.058	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.038	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.053	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.372	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.324	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.301	N/A	Pass



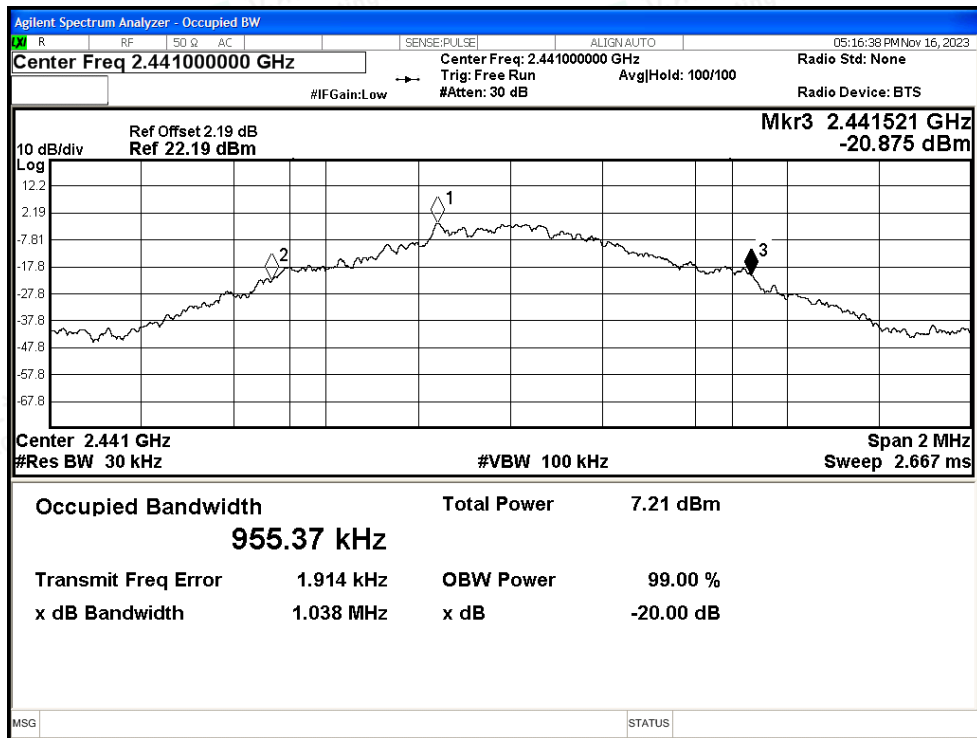


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

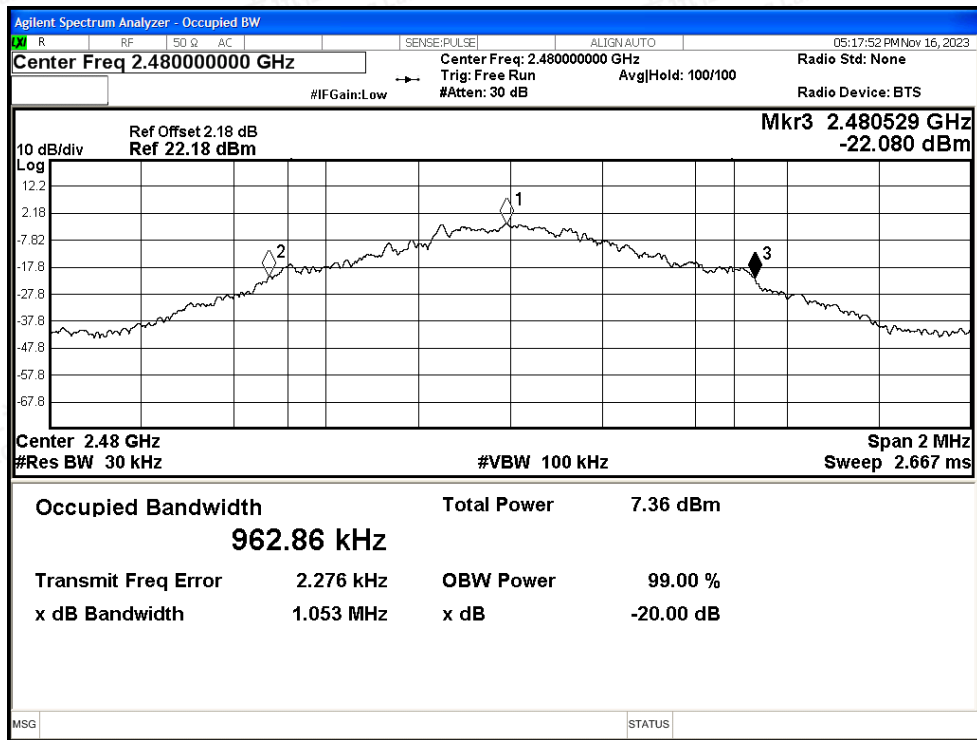


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

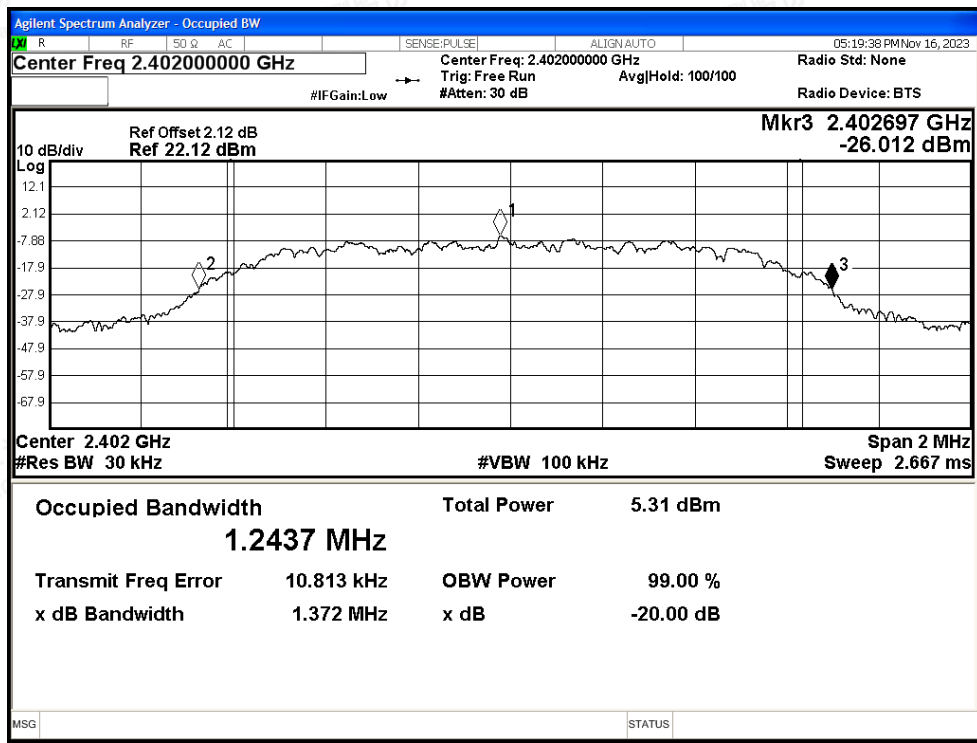




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

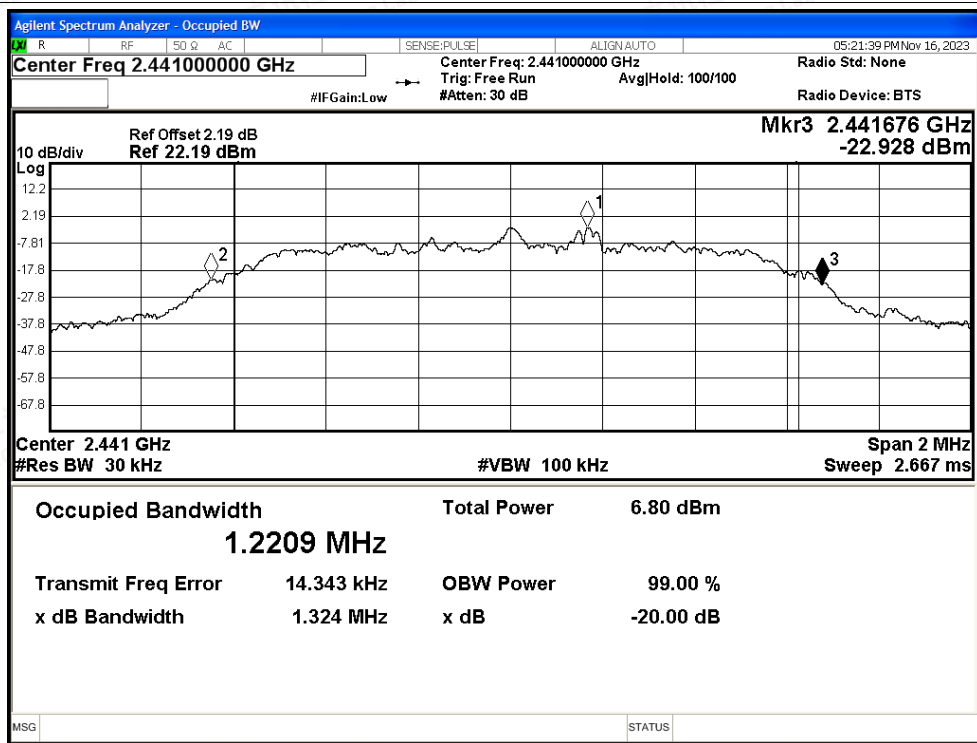


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

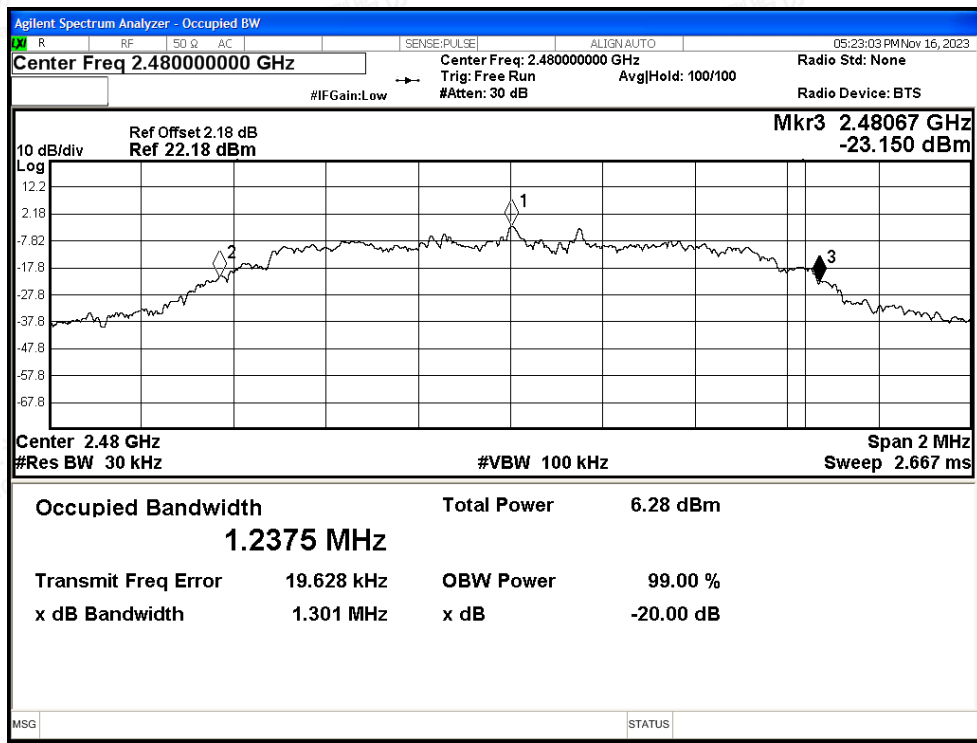




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

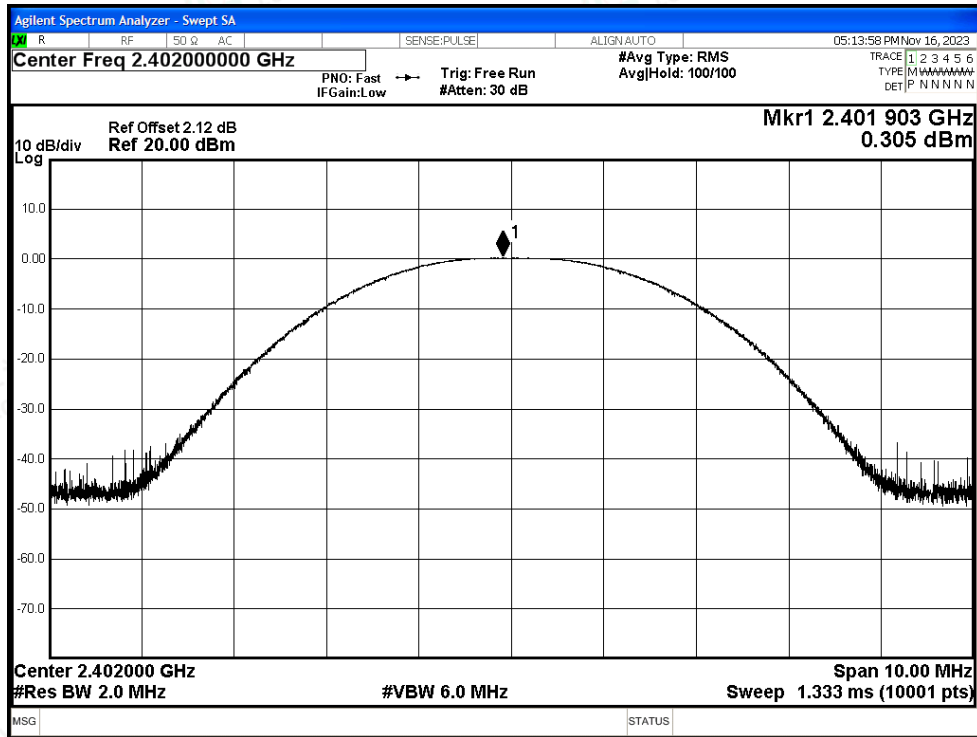
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.31	21	Pass
NVNT	1-DH5	2441	Ant1	0.78	21	Pass
NVNT	1-DH5	2480	Ant1	0.79	21	Pass
NVNT	2-DH5	2402	Ant1	1.02	21	Pass
NVNT	2-DH5	2441	Ant1	1.55	21	Pass
NVNT	2-DH5	2480	Ant1	1.55	21	Pass



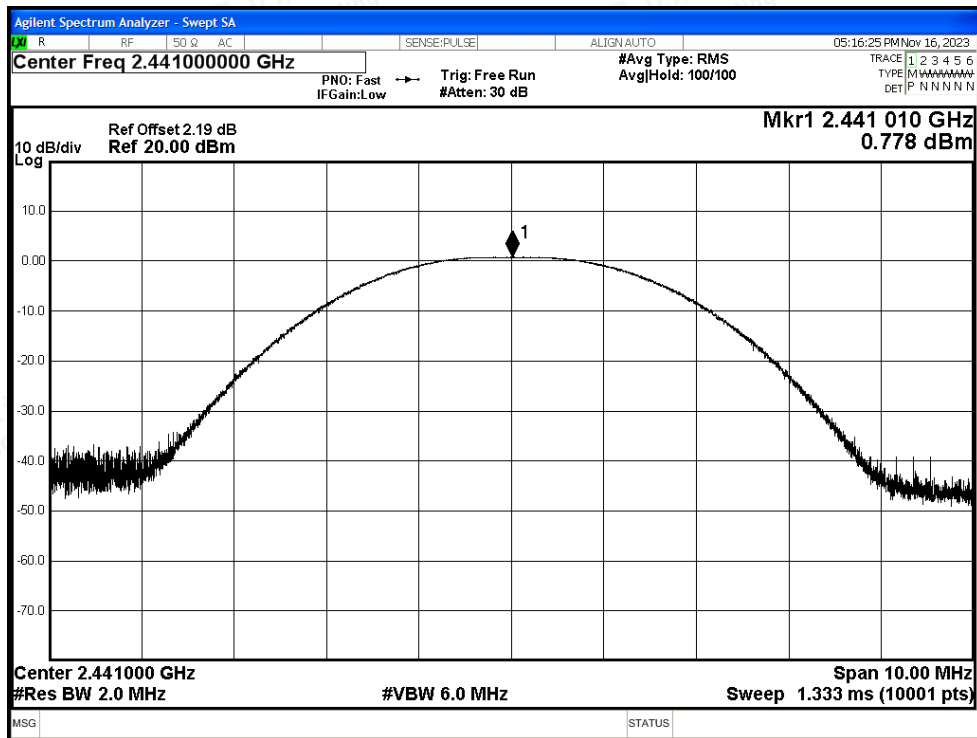


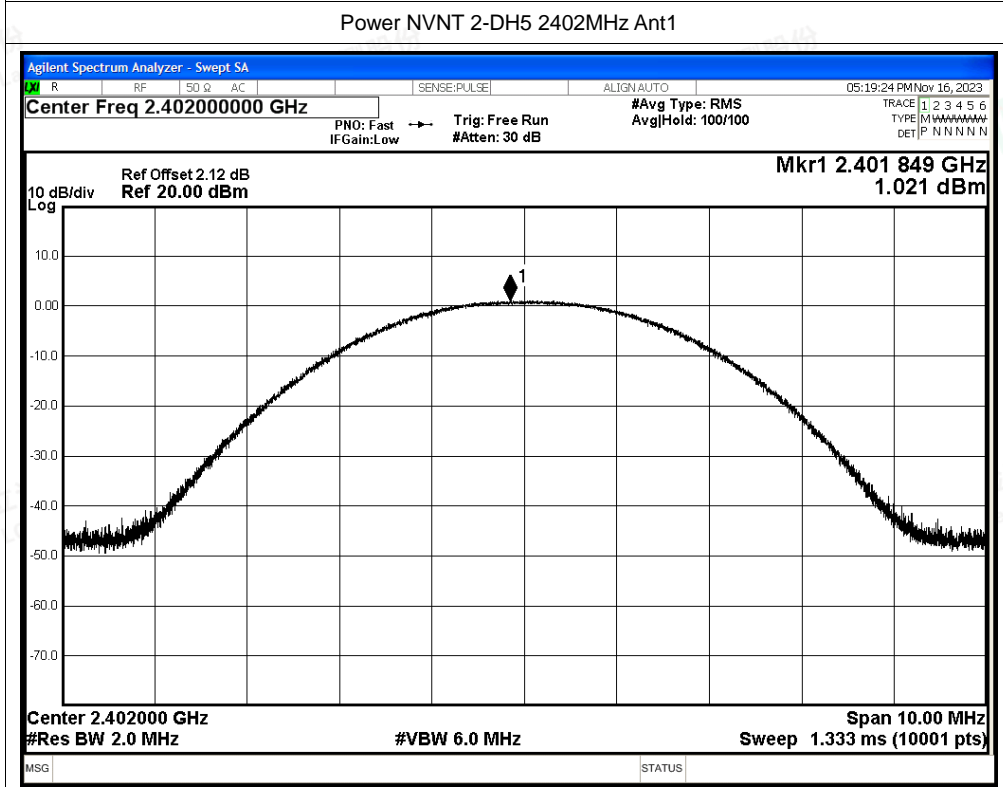
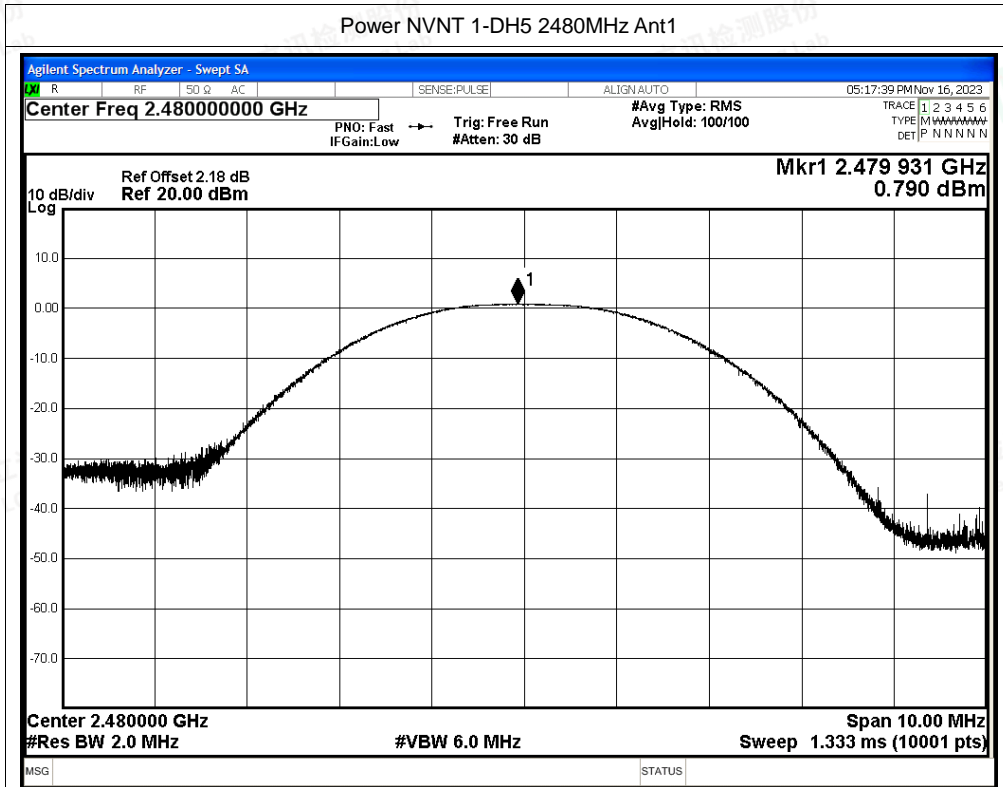
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



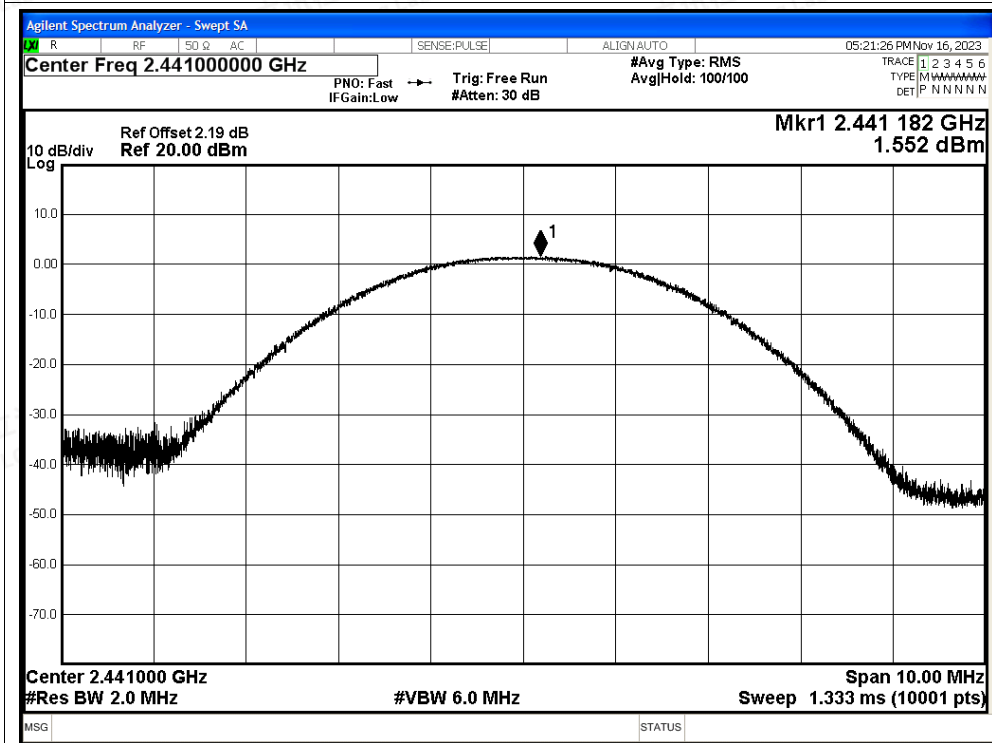
Power NVNT 1-DH5 2441MHz Ant1



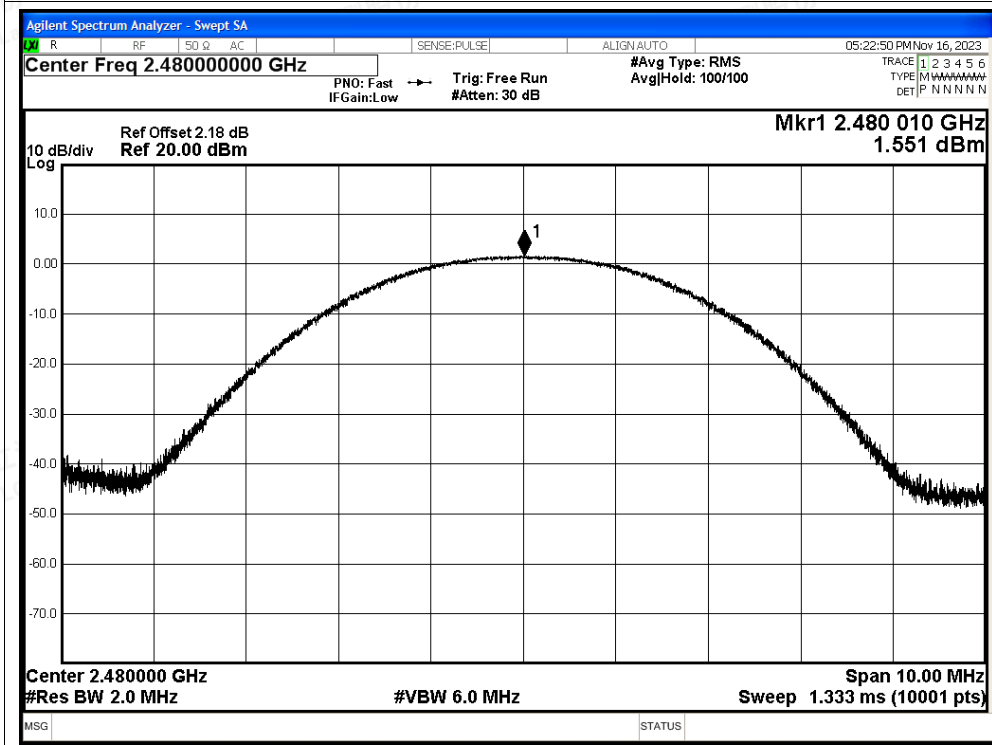




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

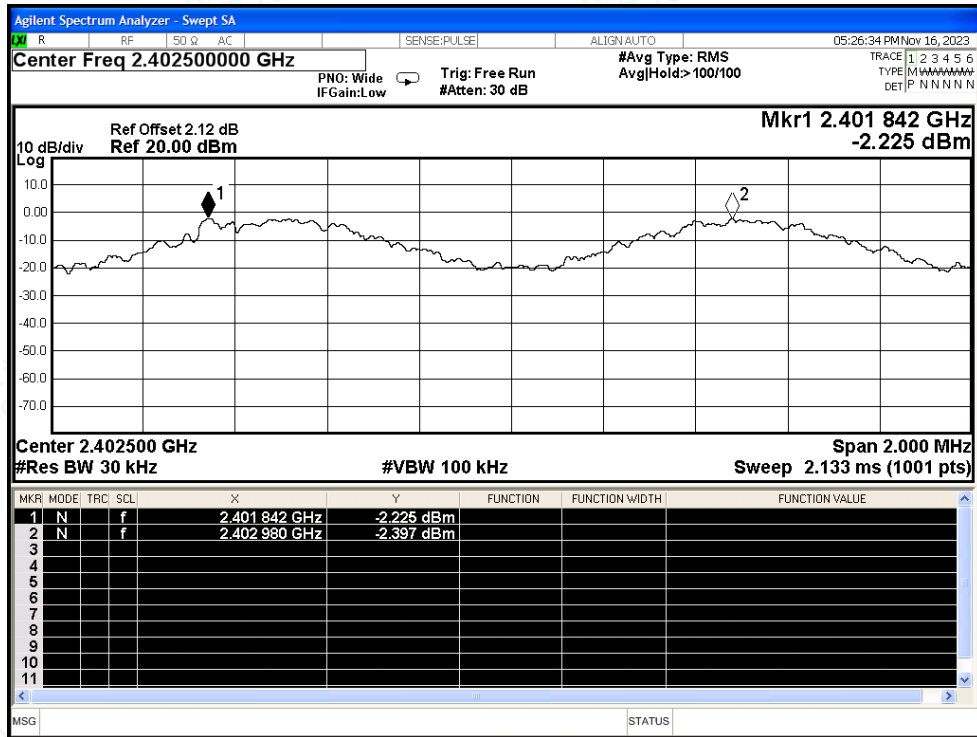
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.842	2402.98	1.138	0.705	Pass
NVNT	2-DH5	Ant1	2401.844	2403.02	1.176	0.915	Pass



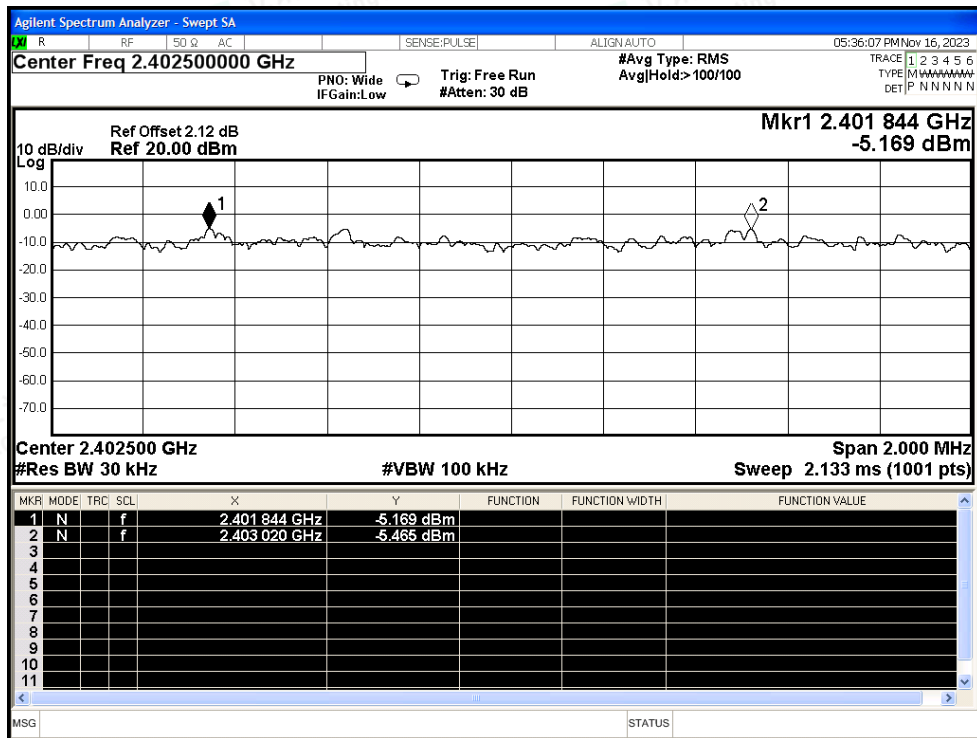


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-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	2.881	339.958	118	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.883	311.364	108	31600	400	Pass

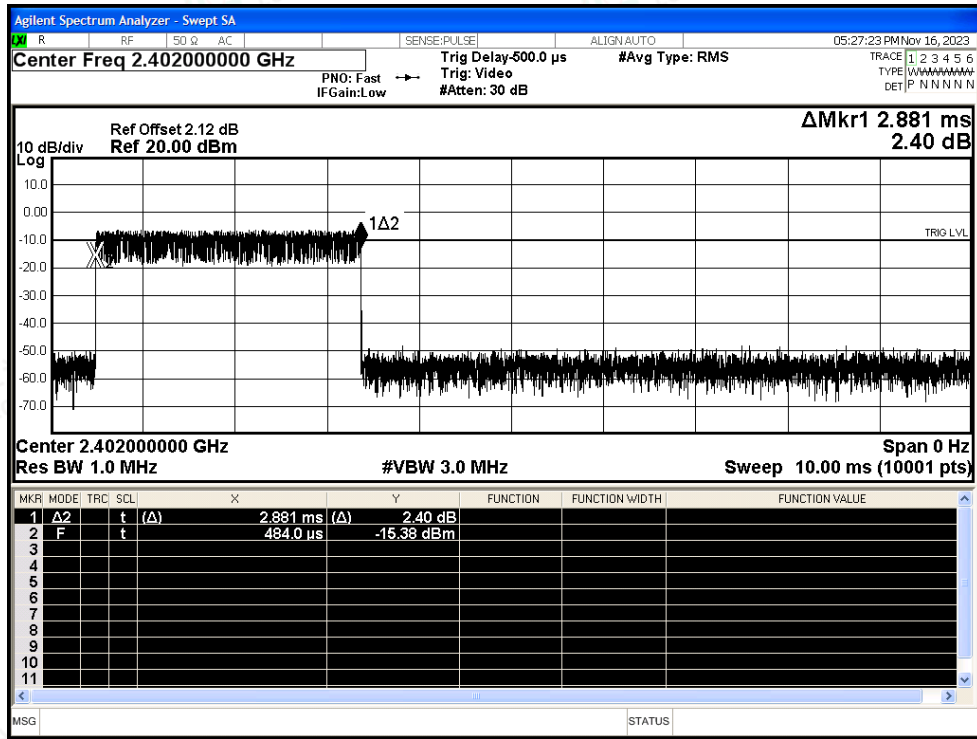


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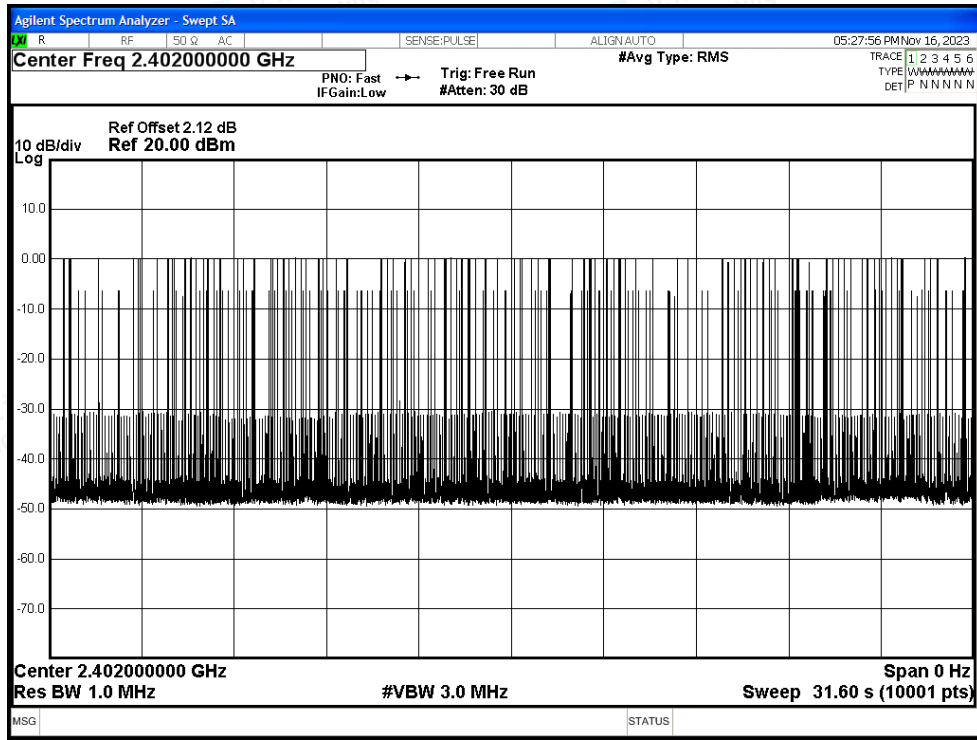


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

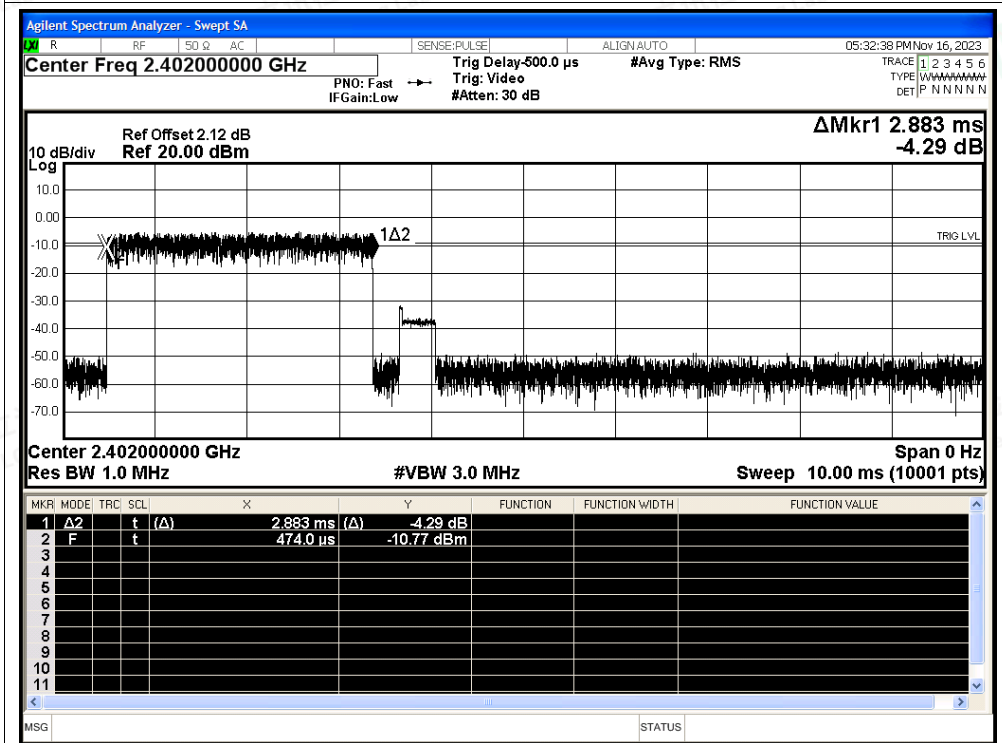


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

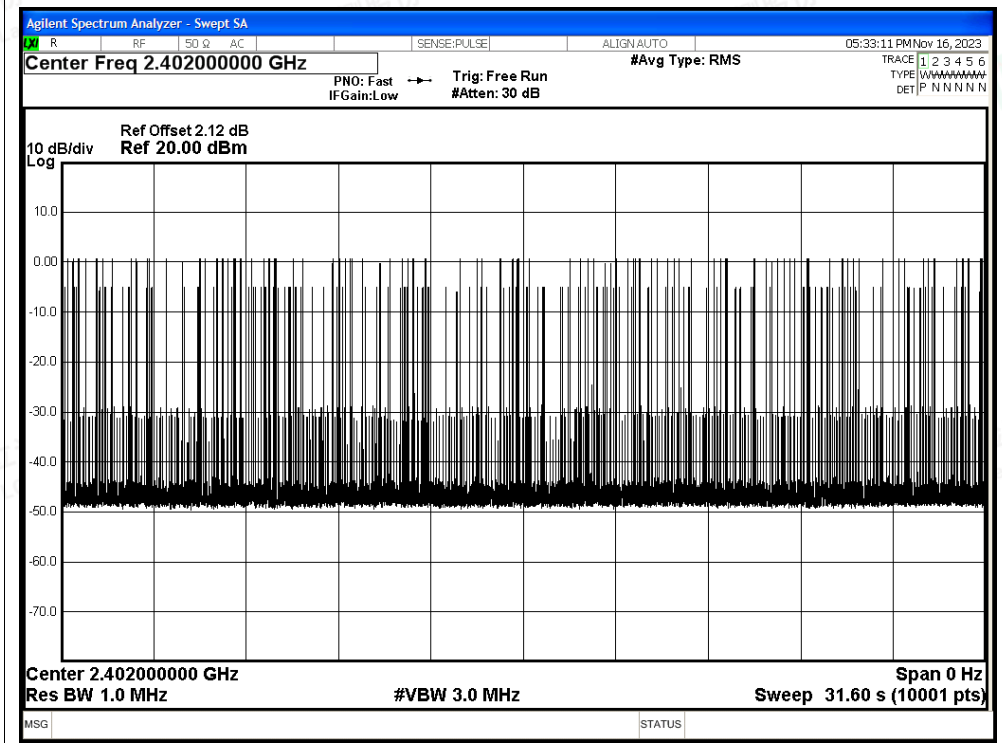




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

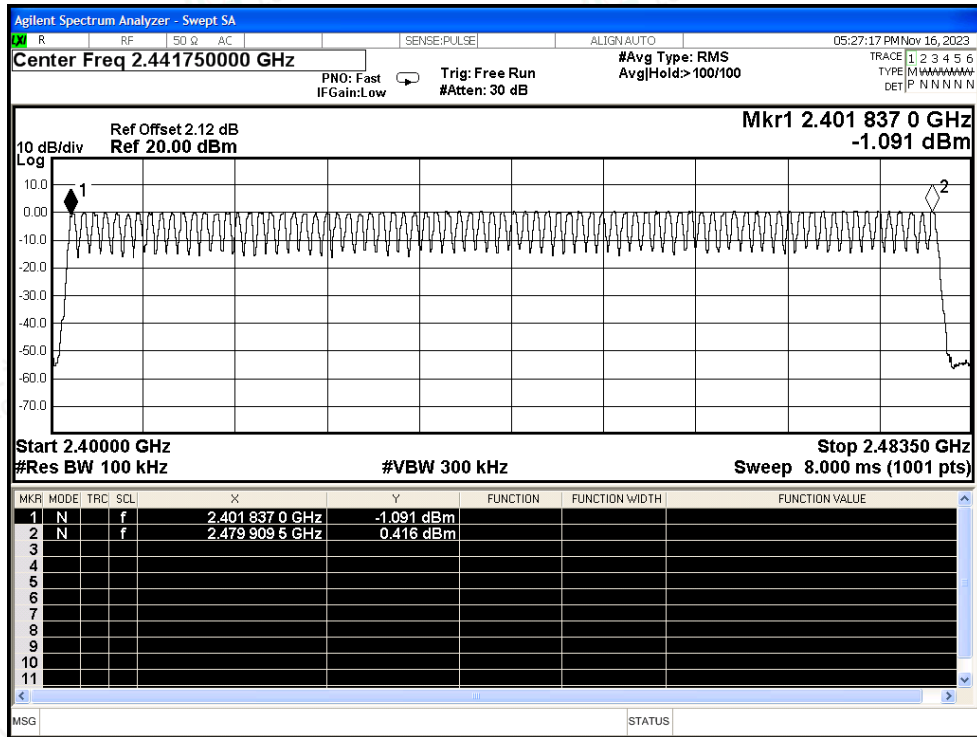
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



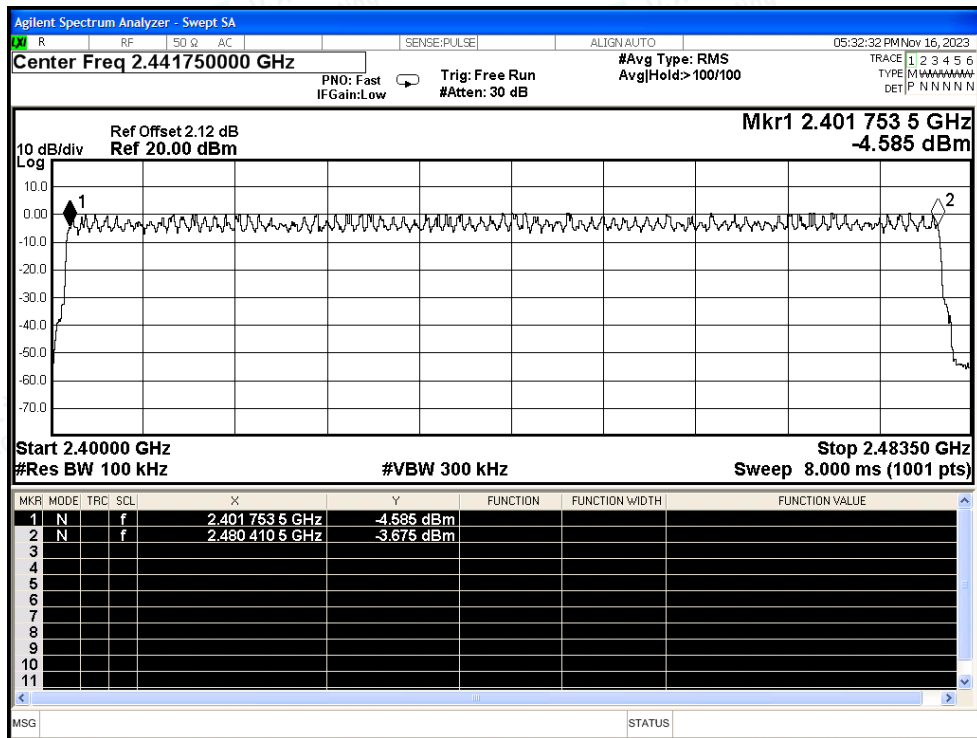


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

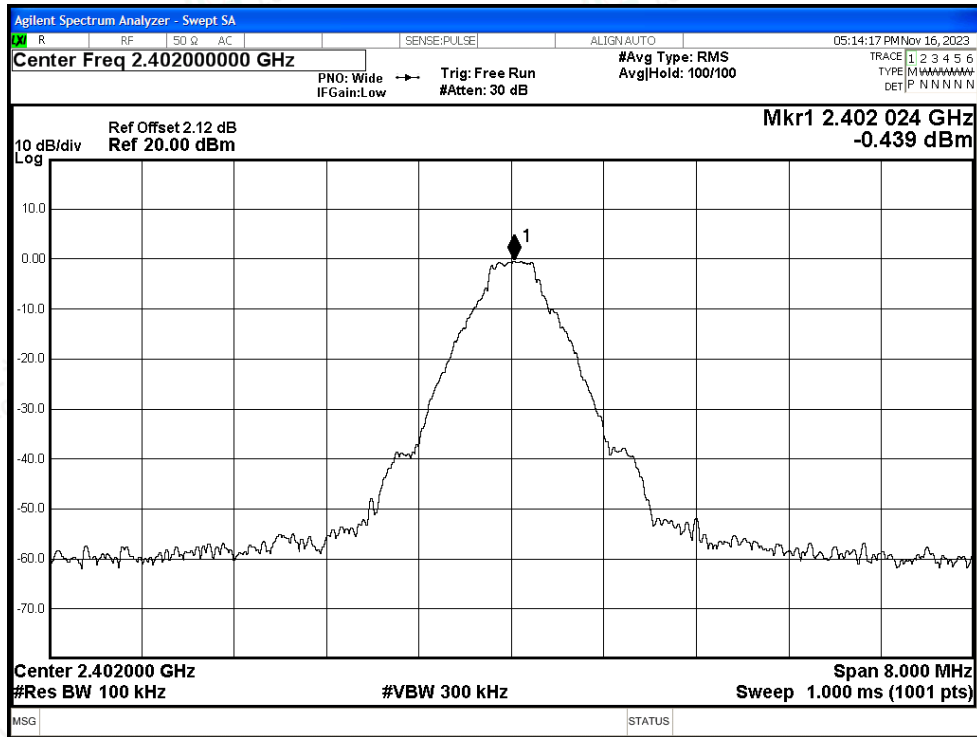
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.51	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.13	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.65	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.8	-20	Pass



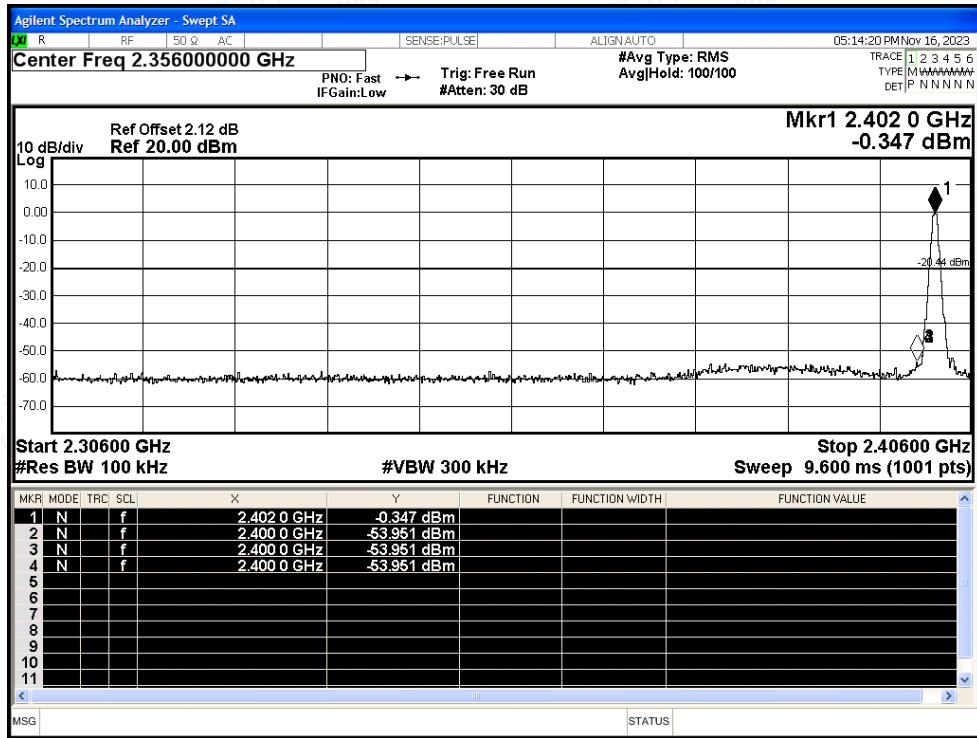


Test Graphs

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

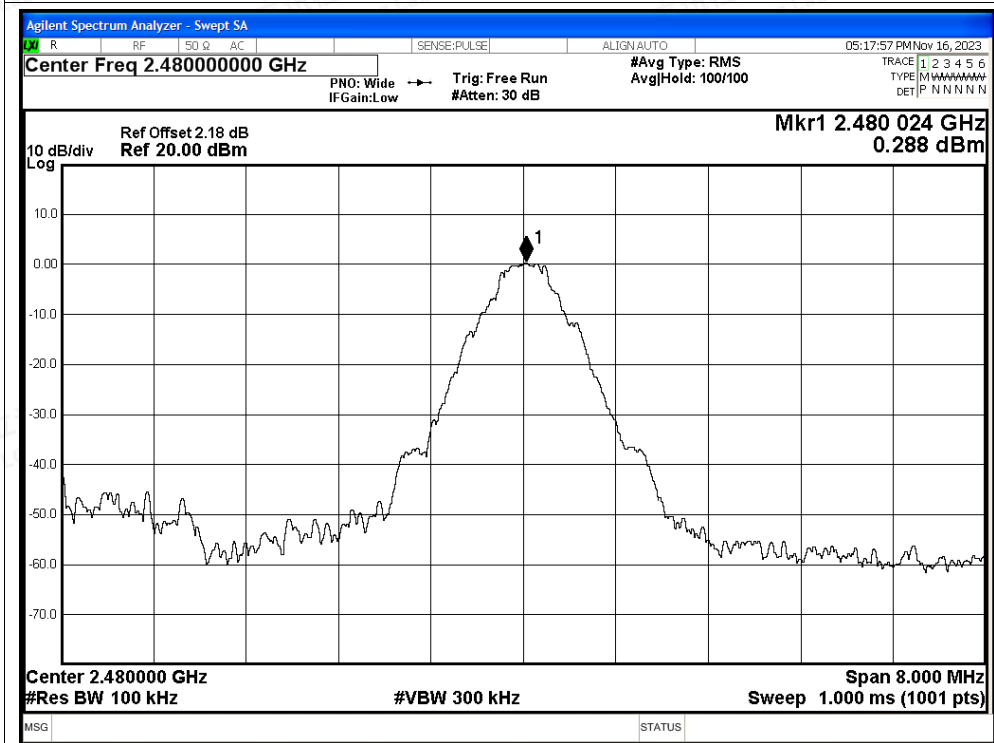


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

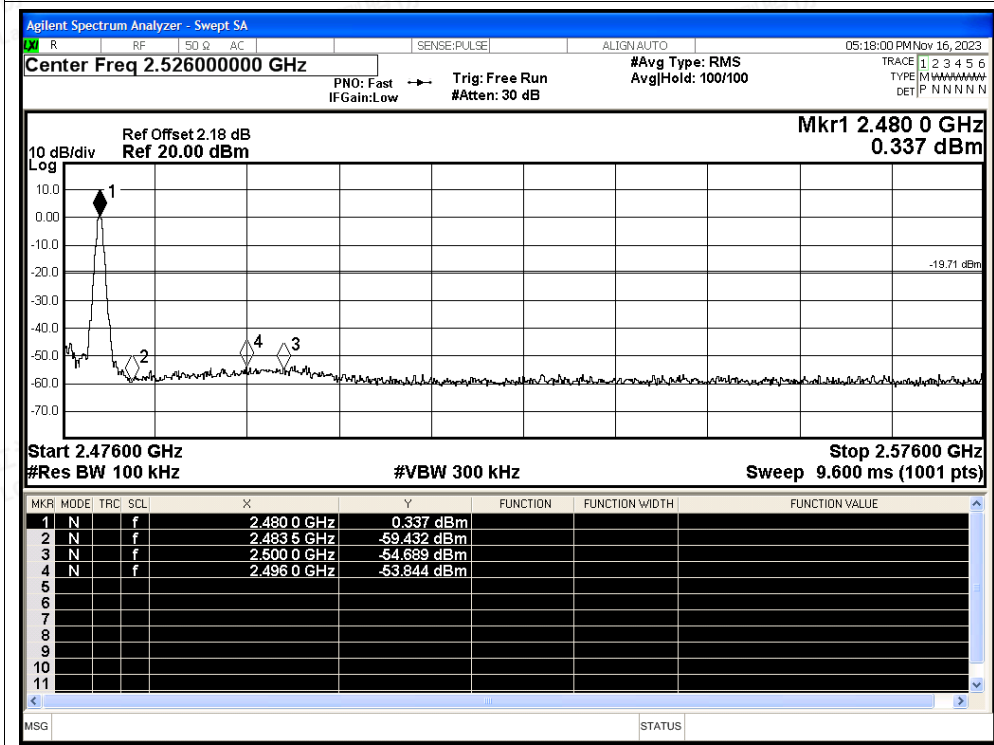




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

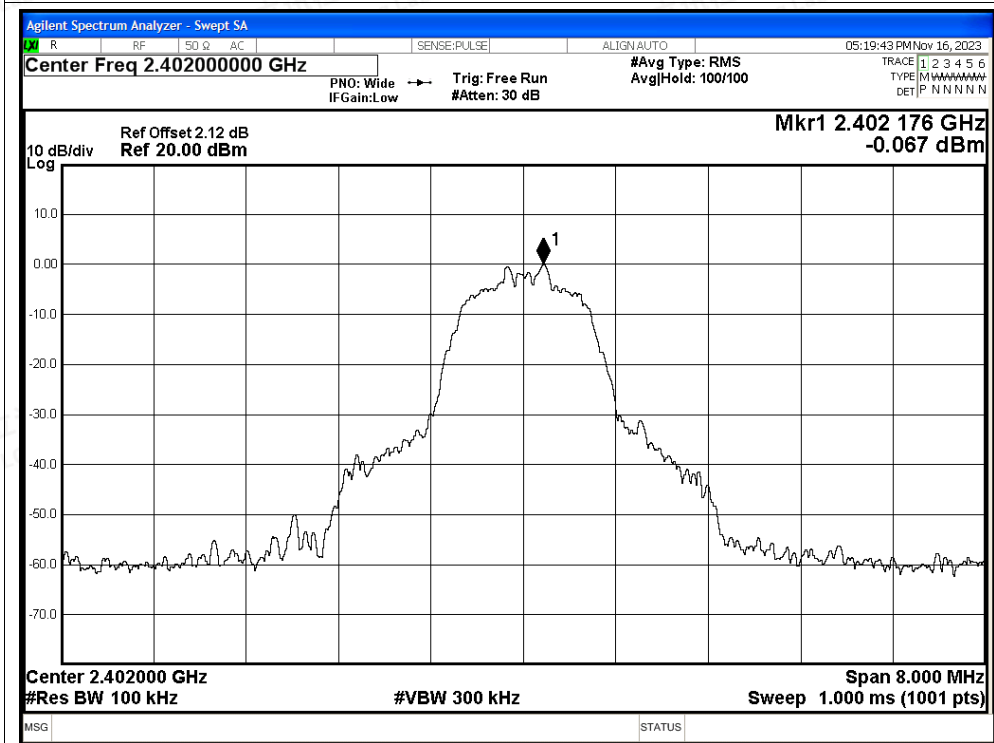


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

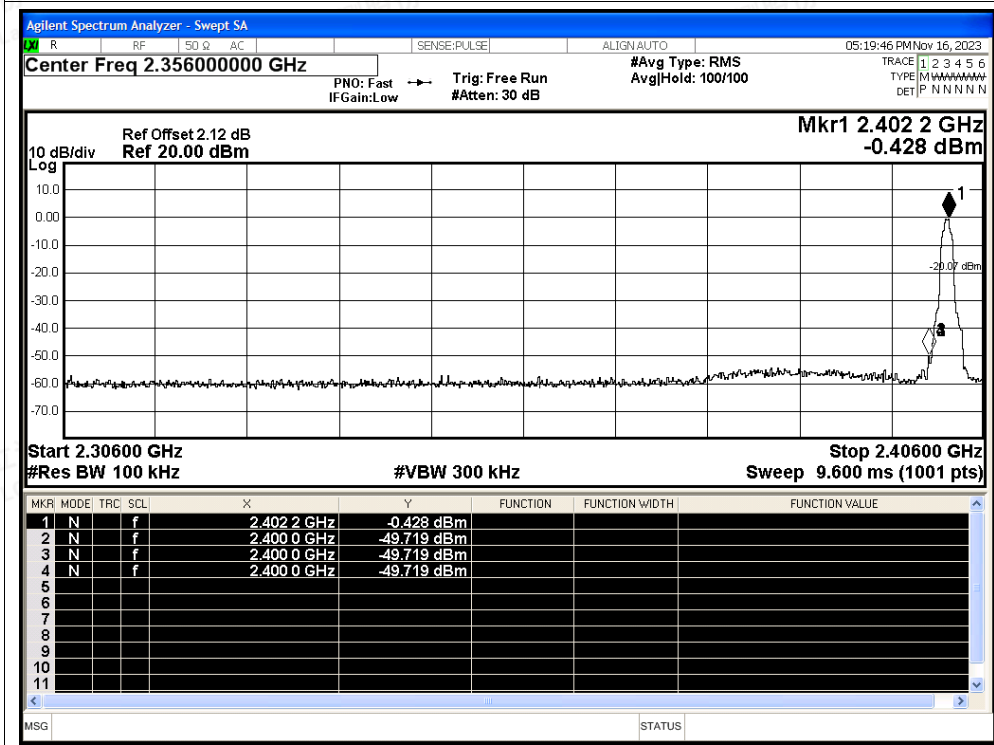




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

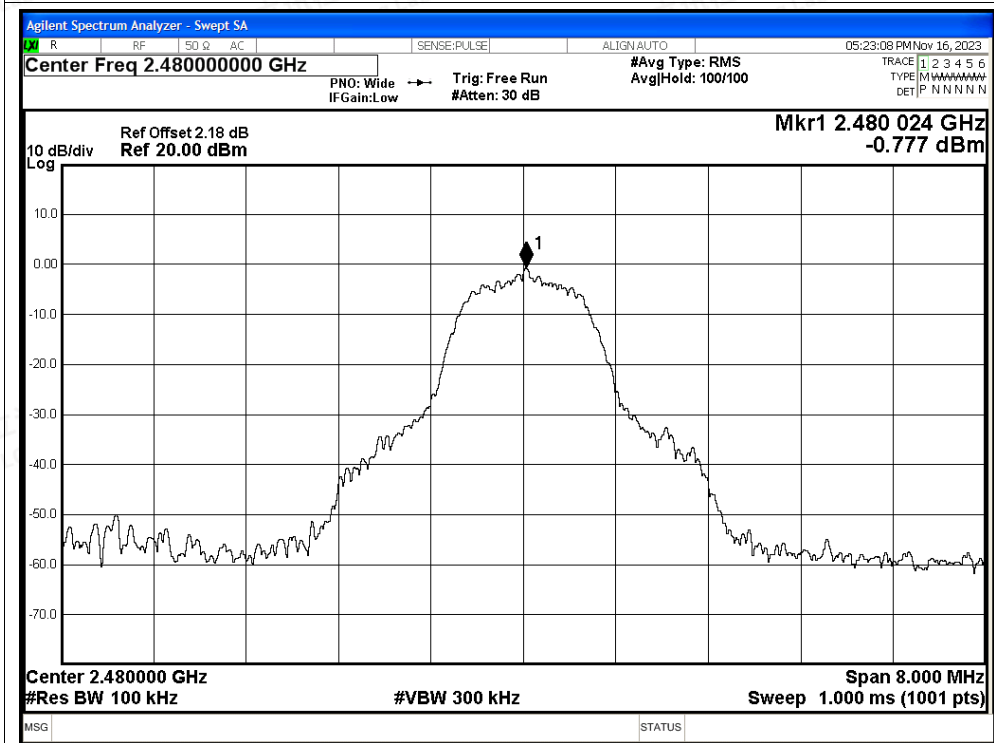


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

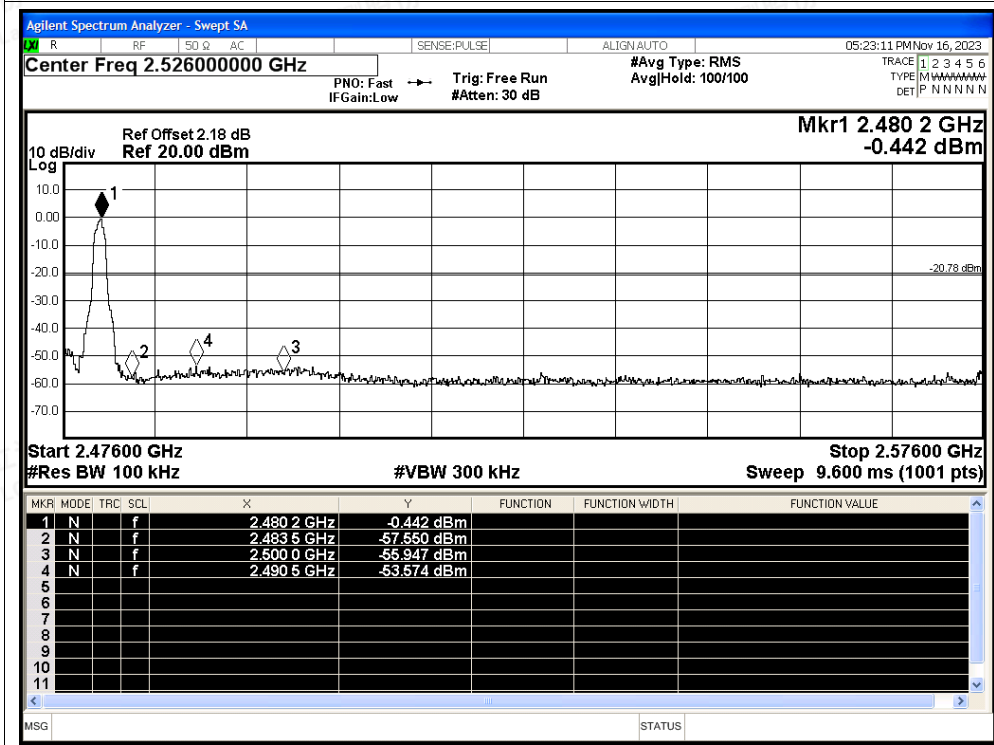




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.3	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.34	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.48	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.69	-20	Pass

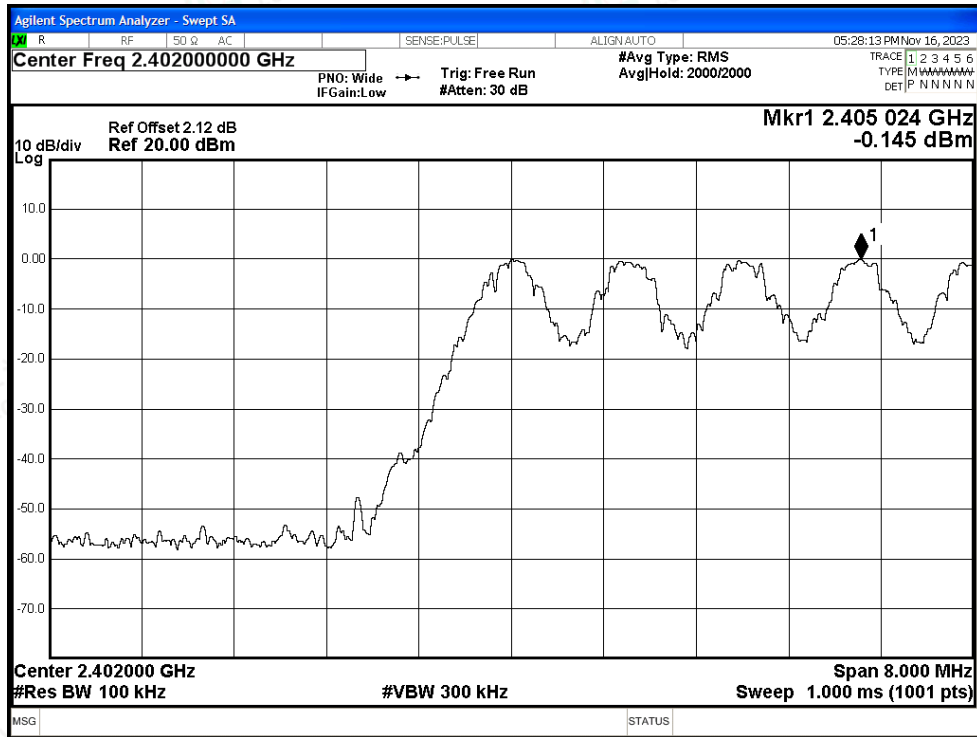


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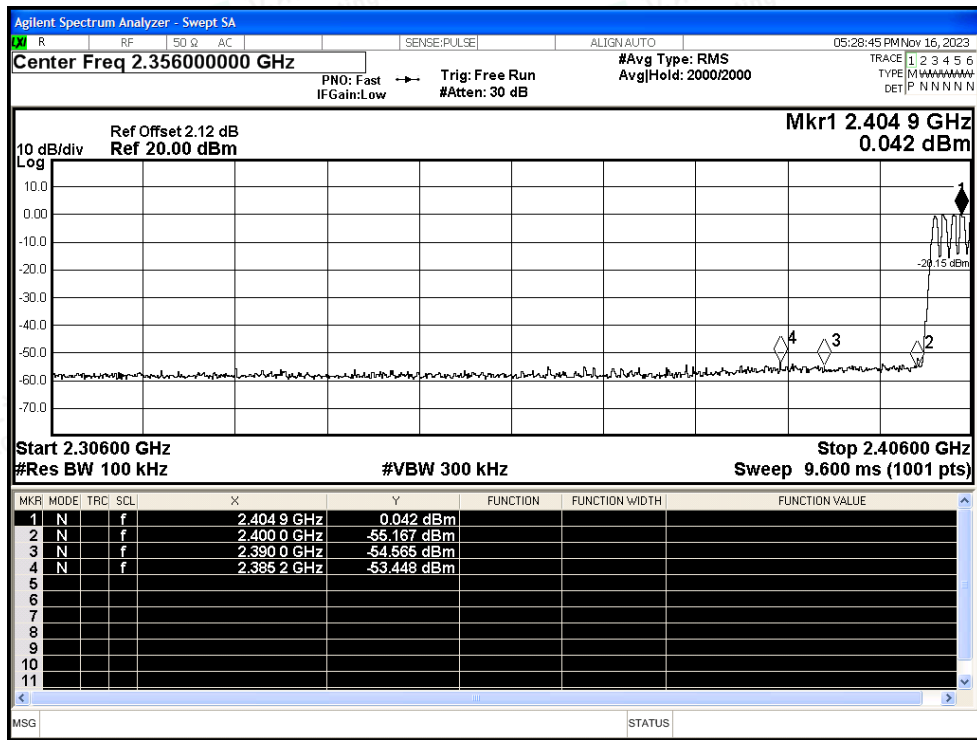


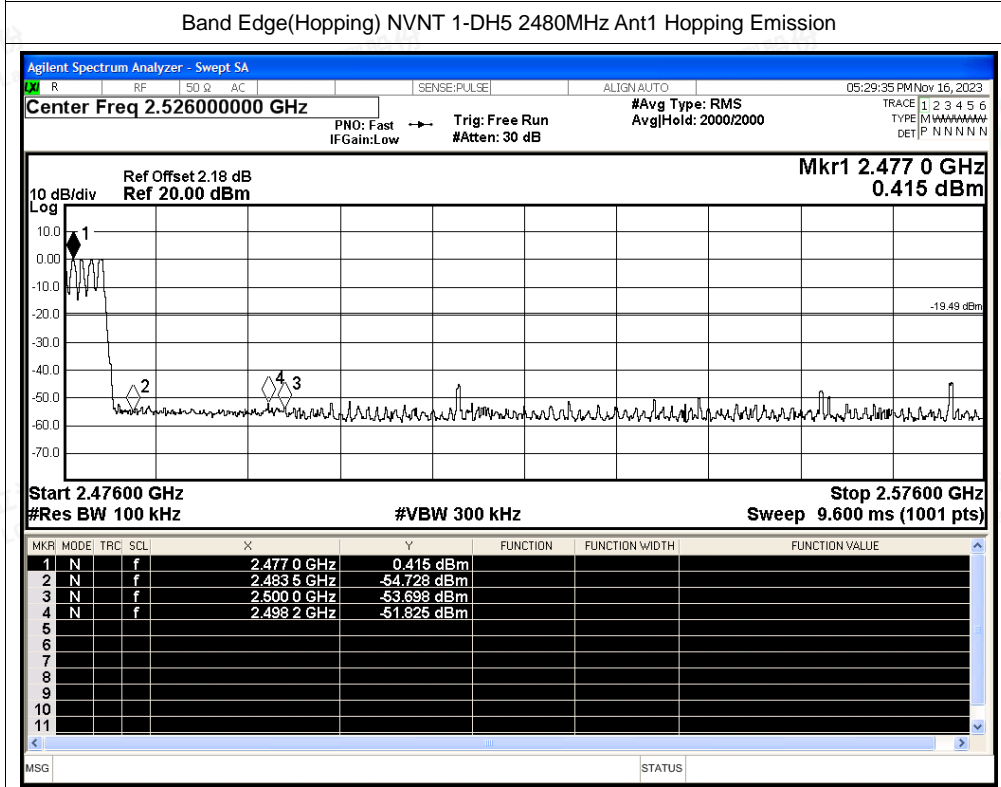
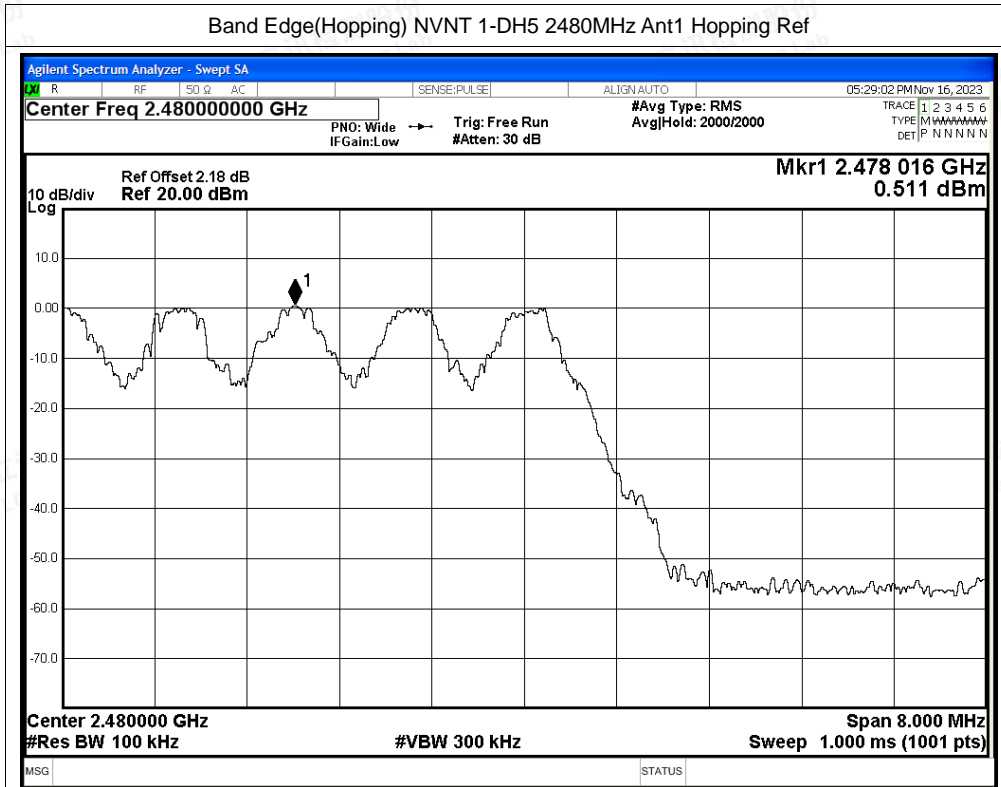
Test Graphs

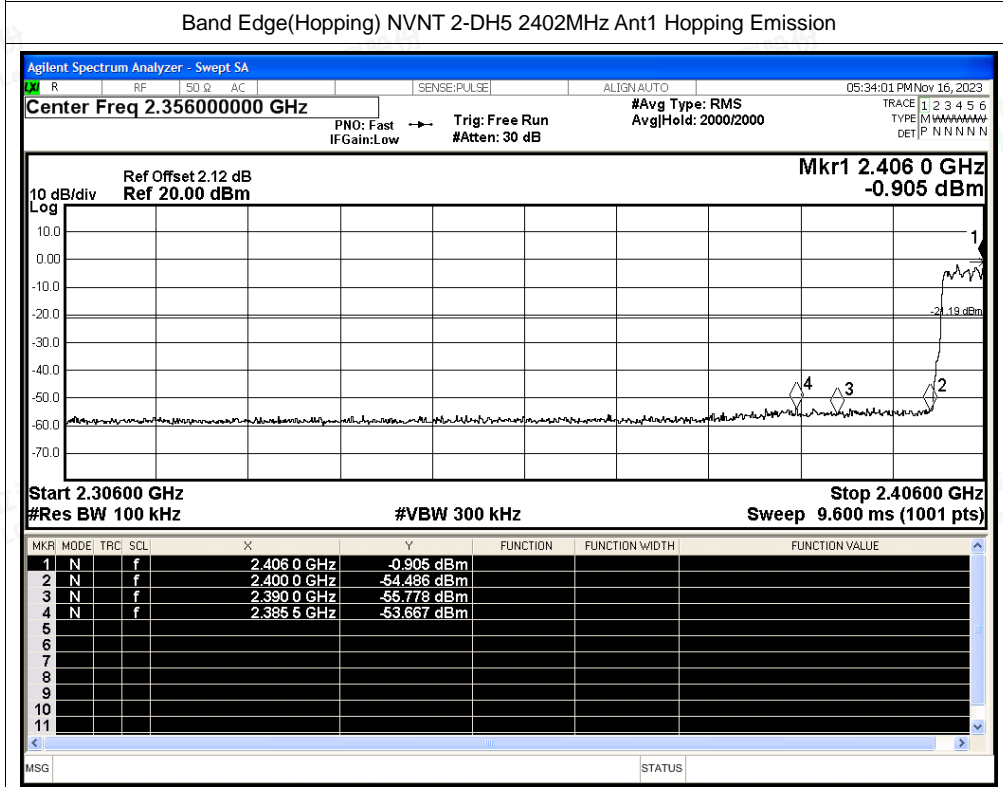
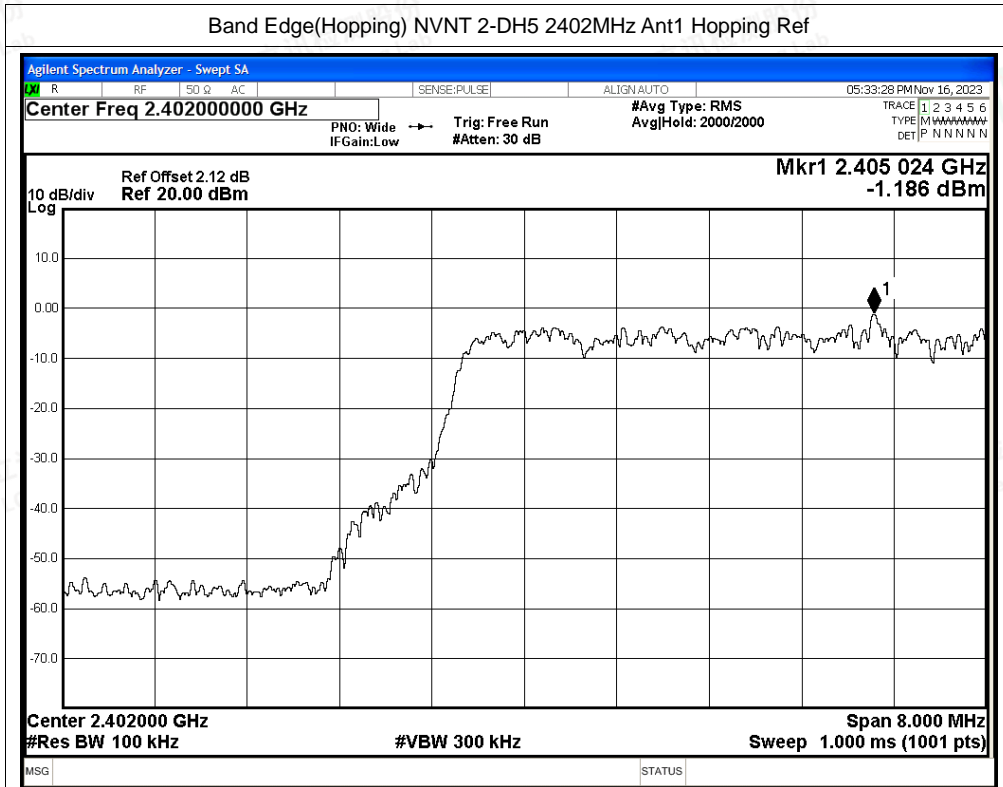
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

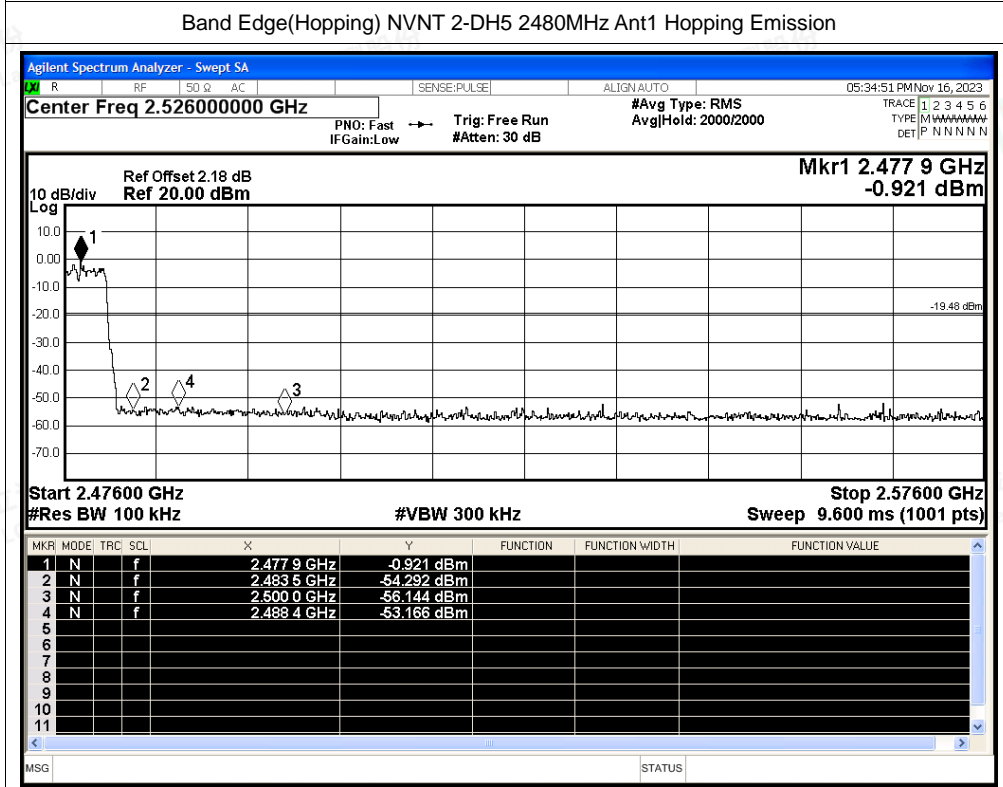
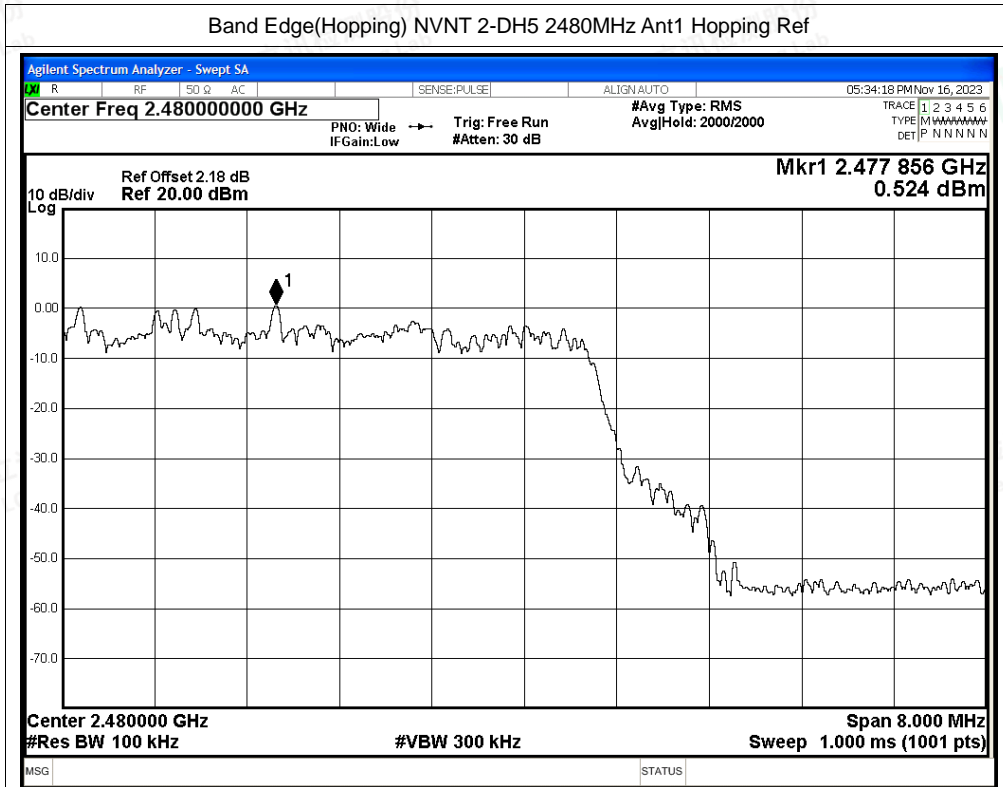


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission











A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-48.45	-20	Pass
NVNT	1-DH5	2441	Ant1	-48.85	-20	Pass
NVNT	1-DH5	2480	Ant1	-36.45	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.07	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.89	-20	Pass
NVNT	2-DH5	2480	Ant1	-39.73	-20	Pass

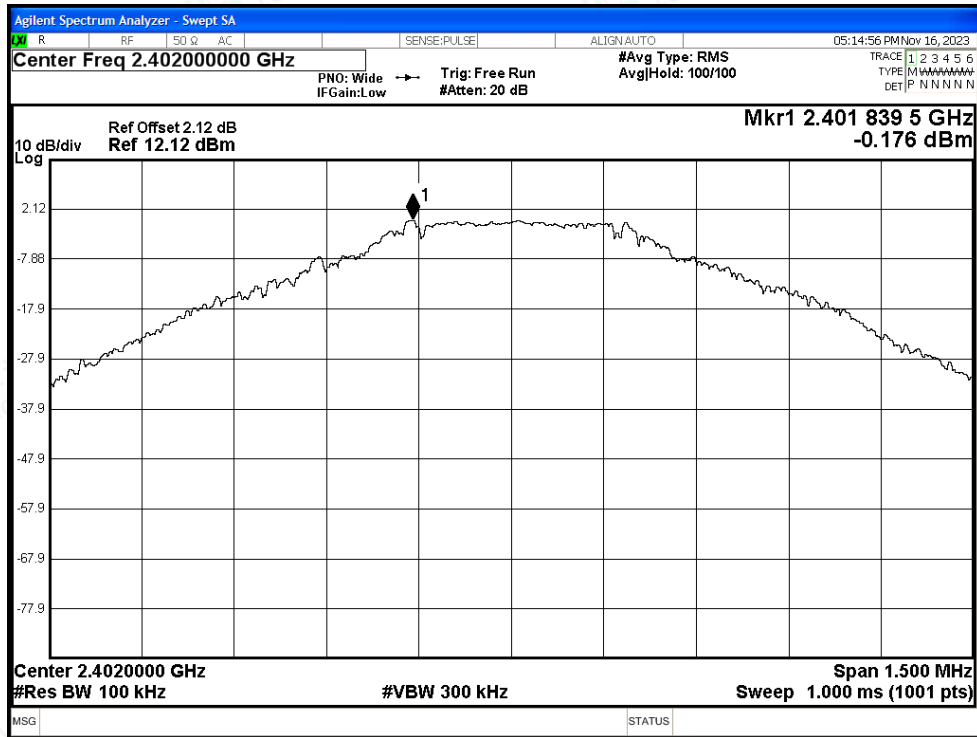


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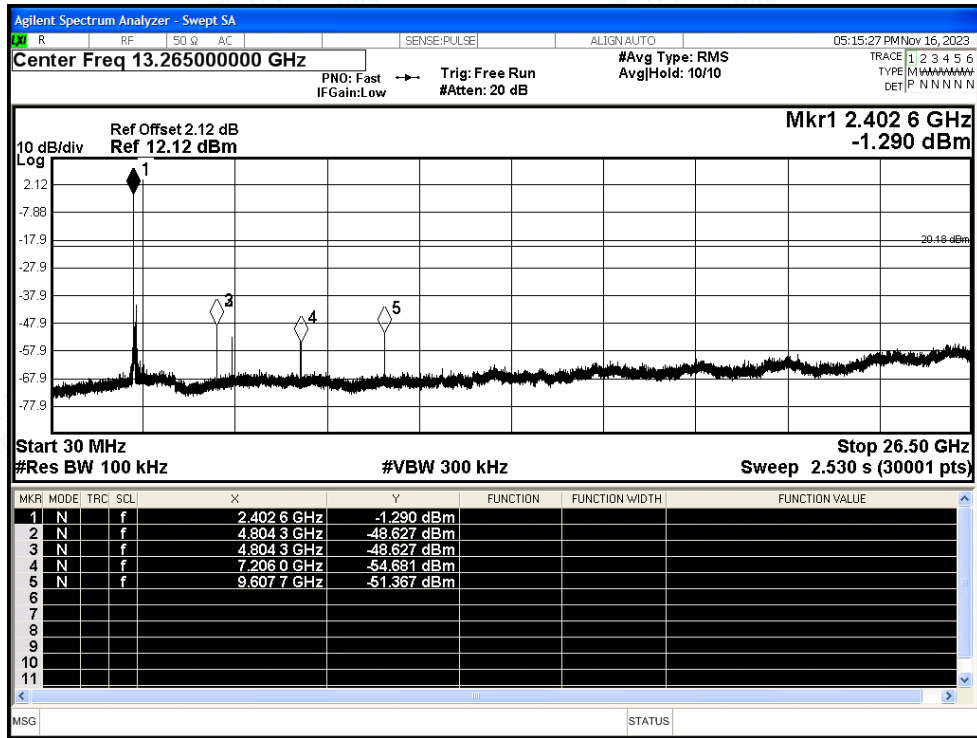


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

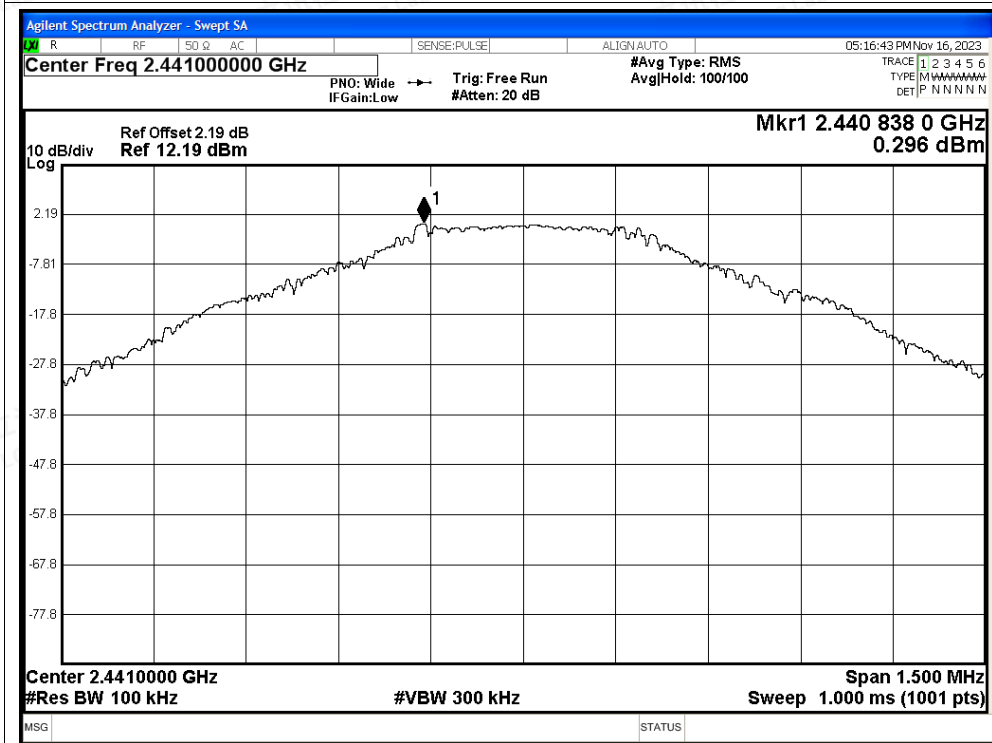


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

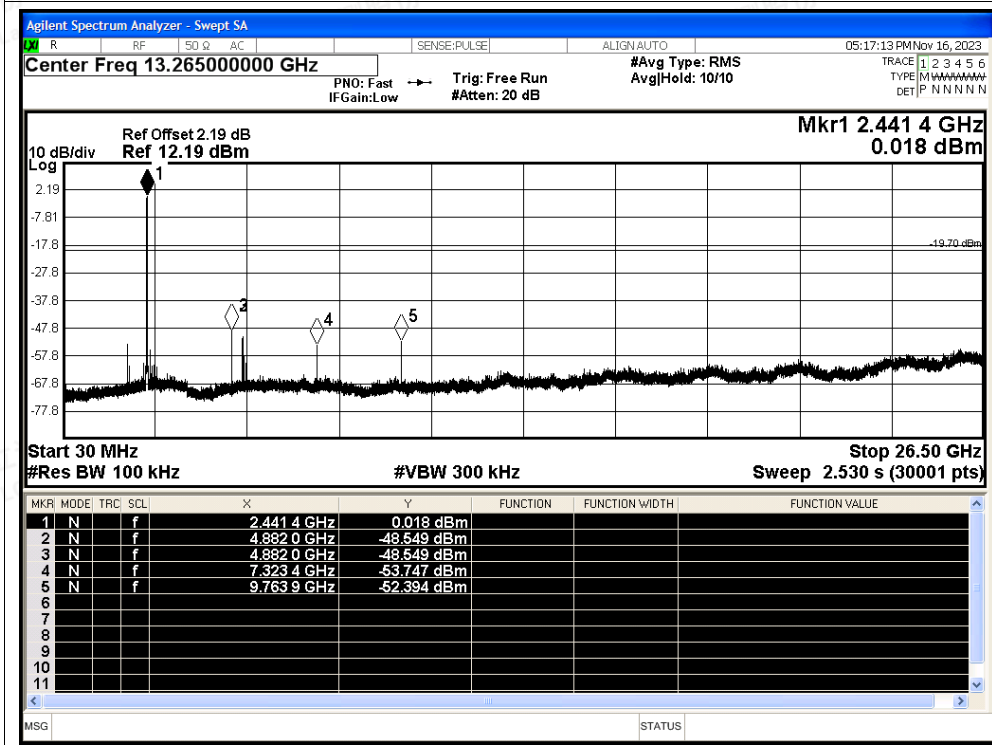




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

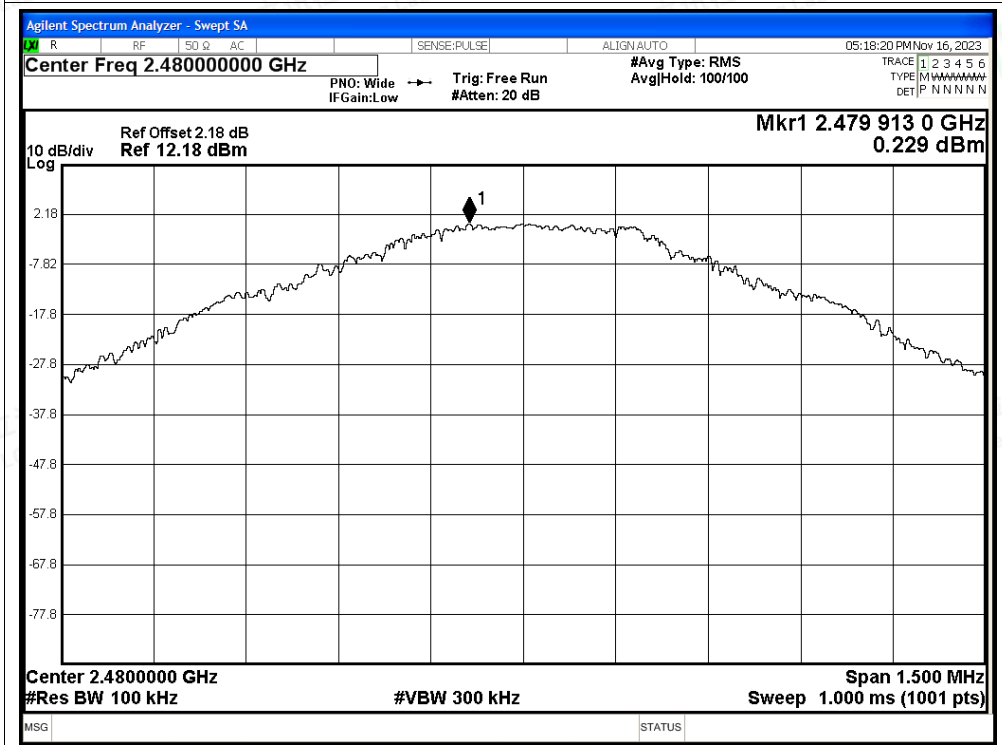


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

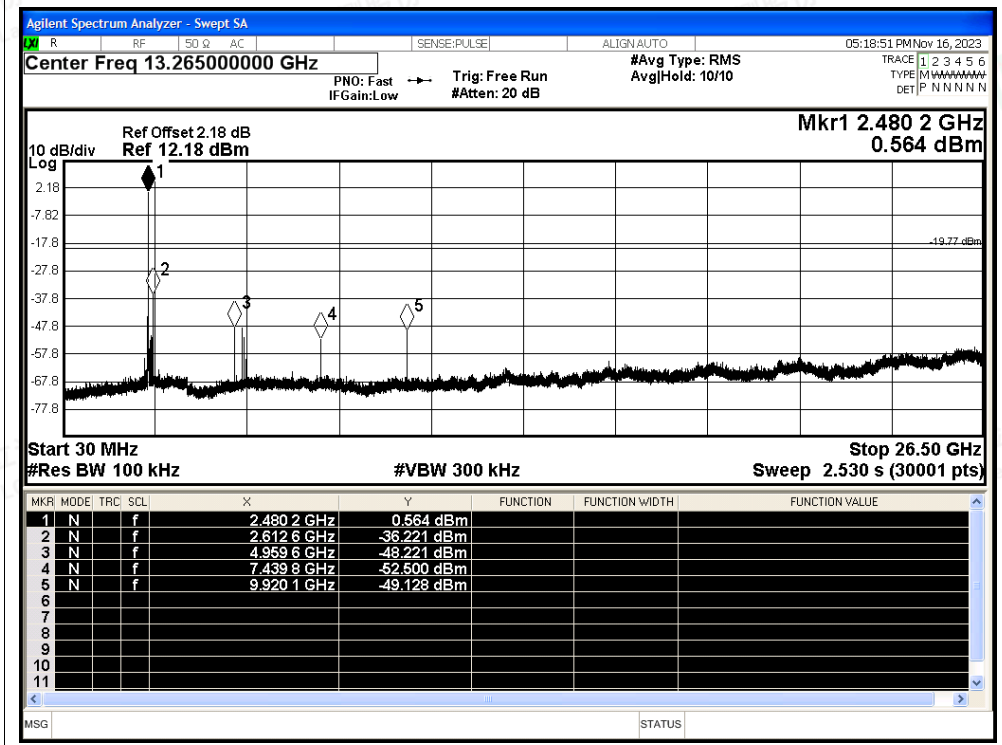




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

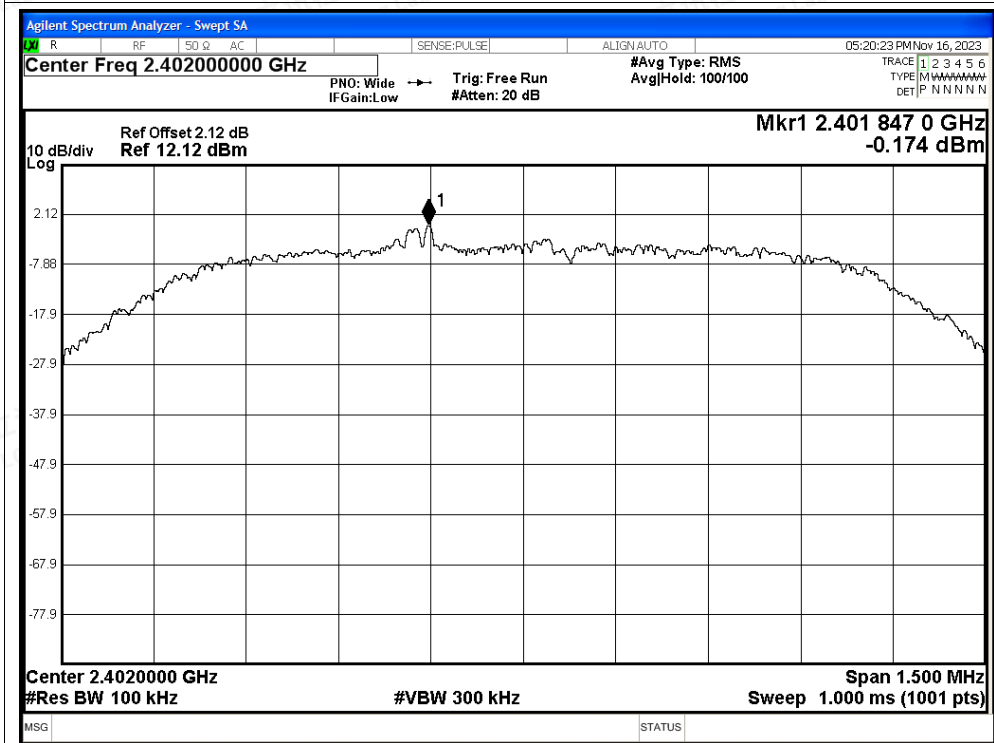


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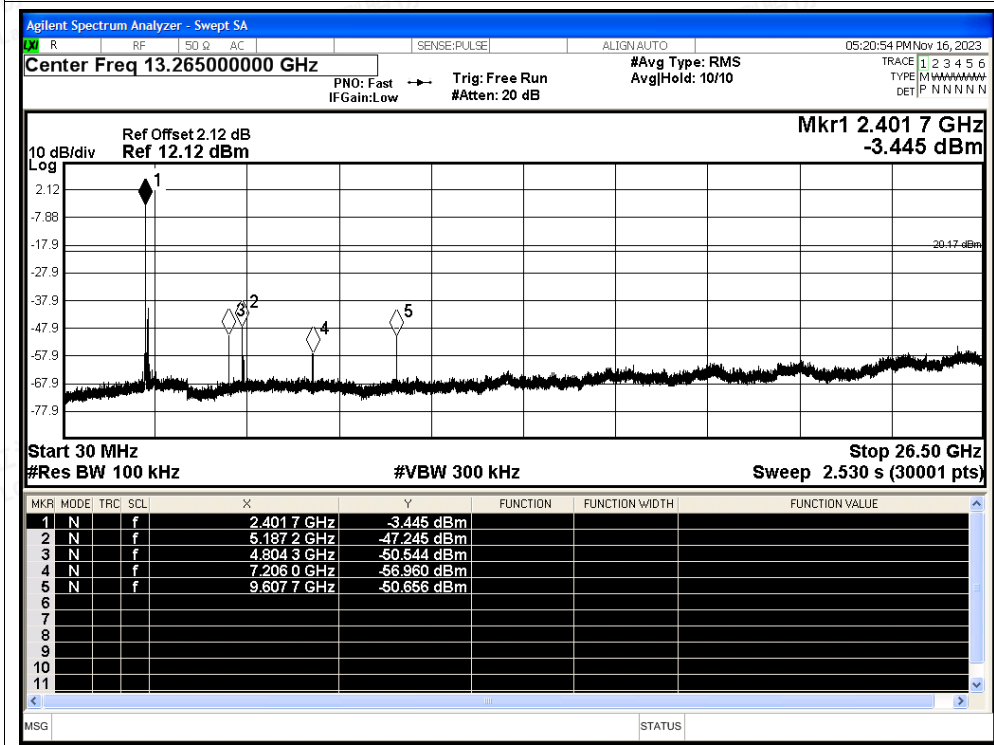




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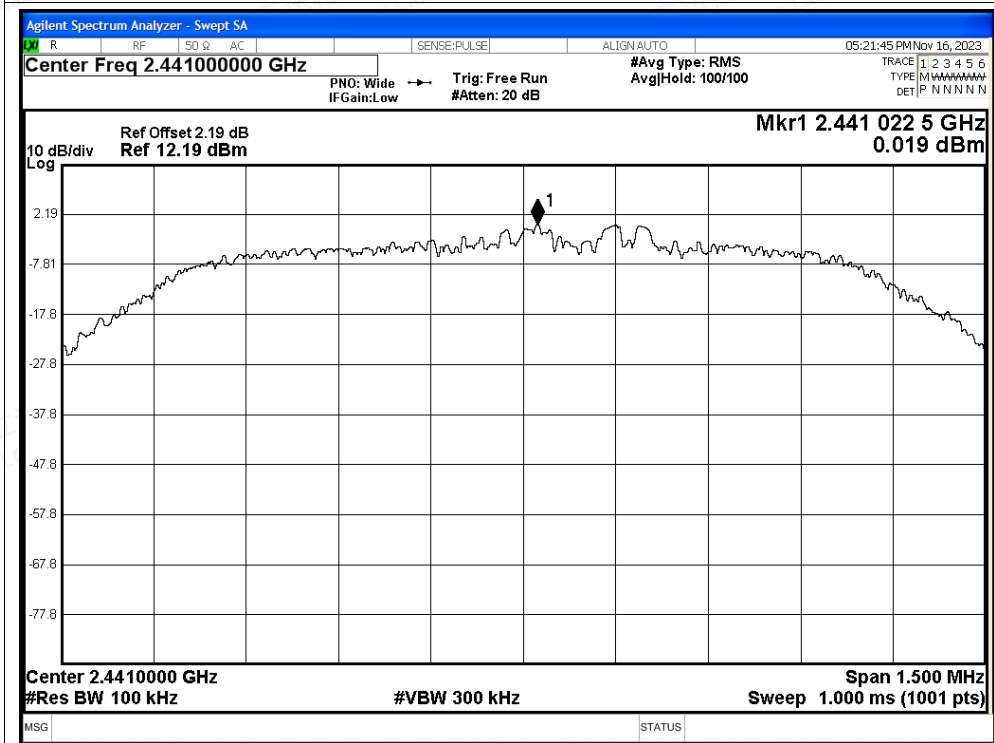


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

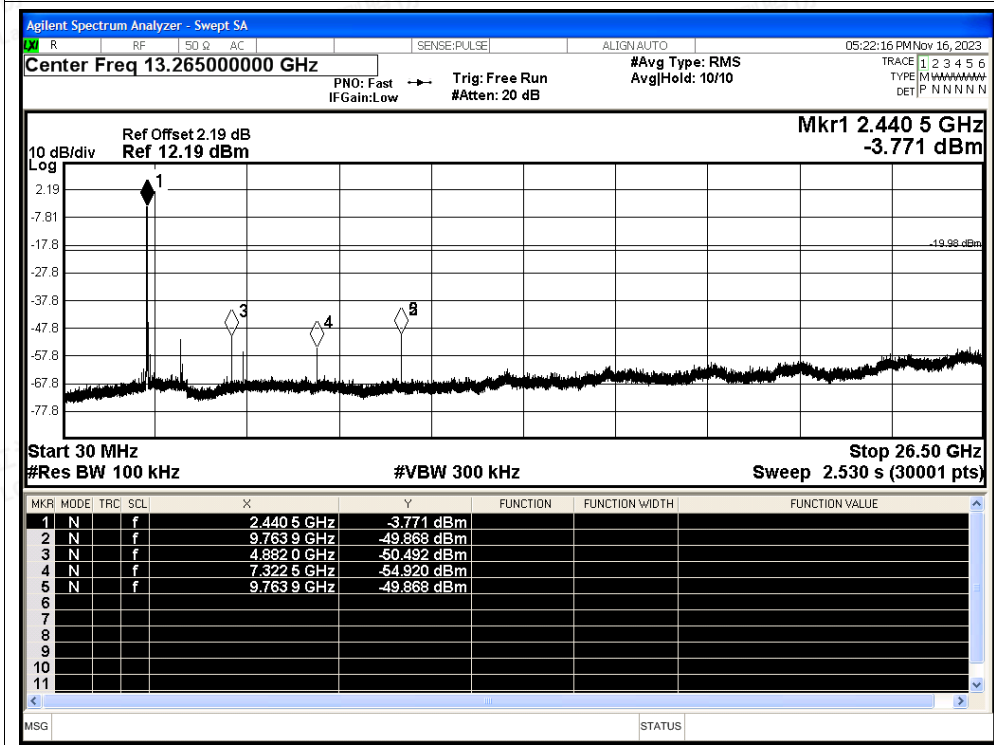




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

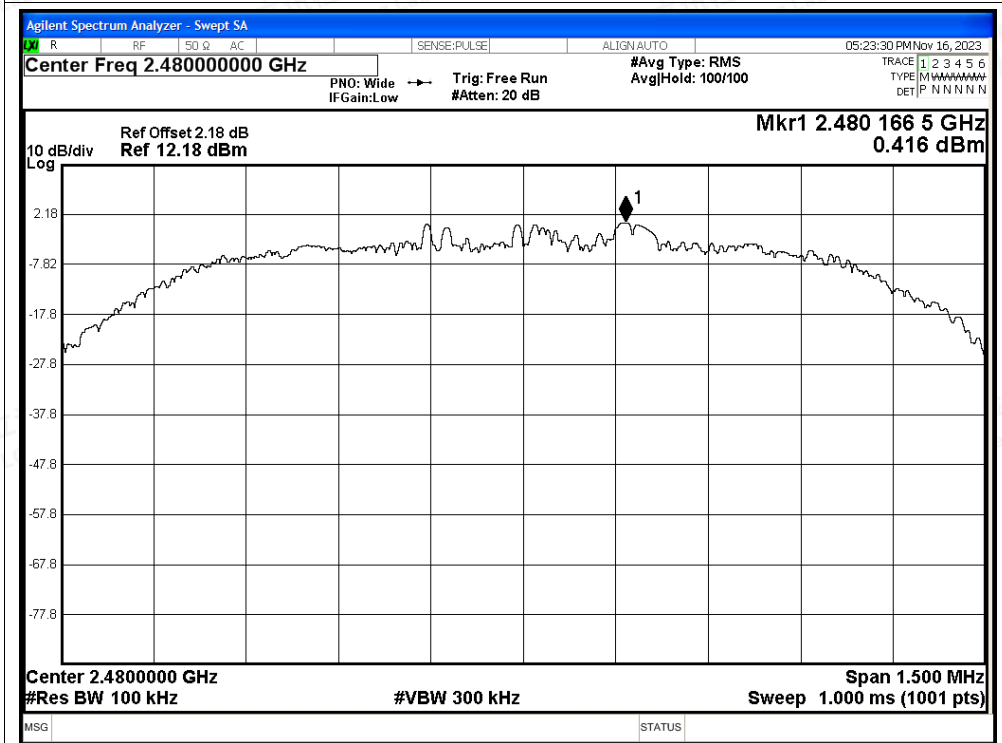


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

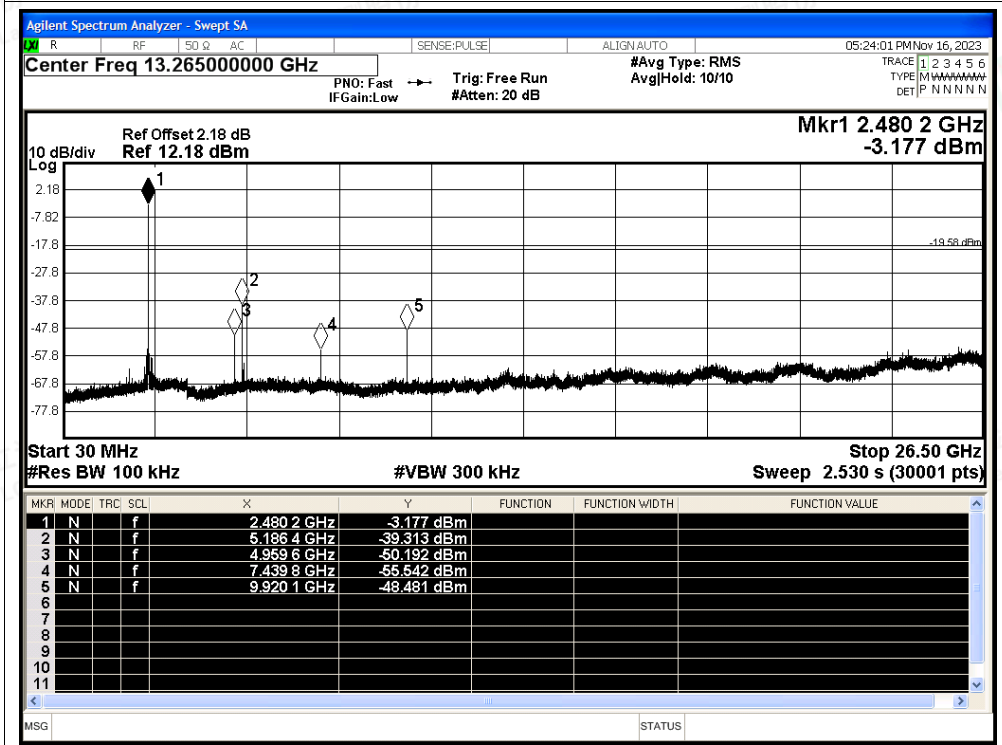




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





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	-51.07	2	46.19	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.86	2	39.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.088	-44.04	2	53.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.864	-53.56	2	43.7	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.3	2	48.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-54.46	2	42.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.54	2	47.72	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.75	2	42.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.52	-43.52	2	53.74	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.976	-53.08	2	44.18	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-45.68	2	51.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.08	2	44.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.02	2	47.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.8	2	39.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.096	-43.84	2	53.42	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.52	-53.44	2	43.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.08	2	50.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-54.39	2	42.87	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.67	2	49.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.17	2	43.09	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.712	-43.43	2	53.83	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.944	-52.88	2	44.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-45.61	2	51.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.14	2	44.12	Average	54	Pass

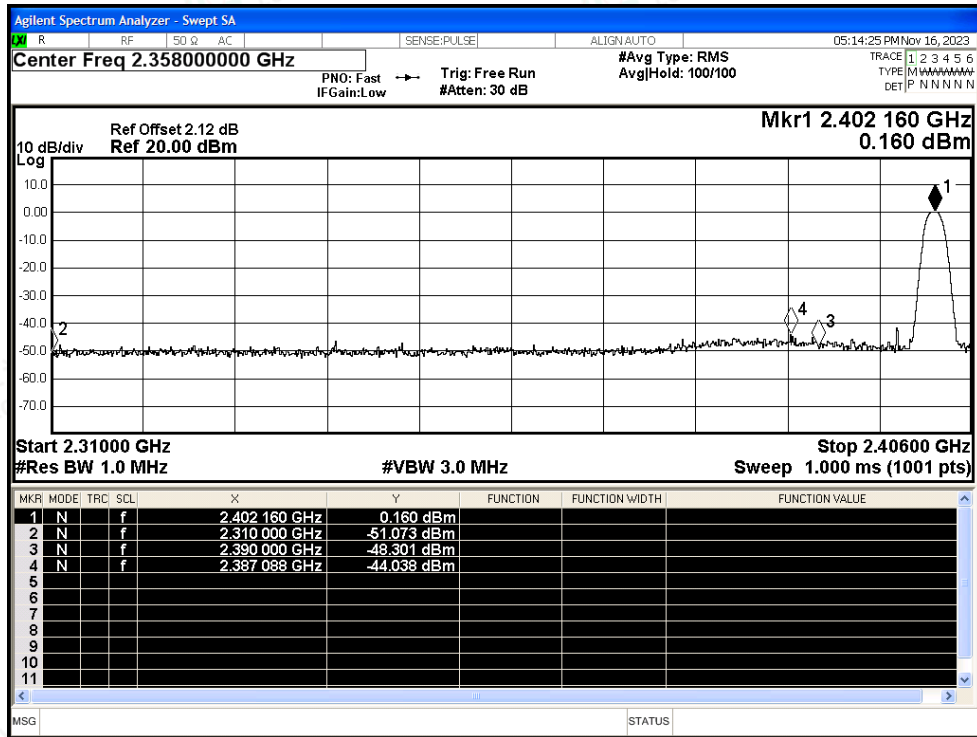


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 Scan code to check authenticity

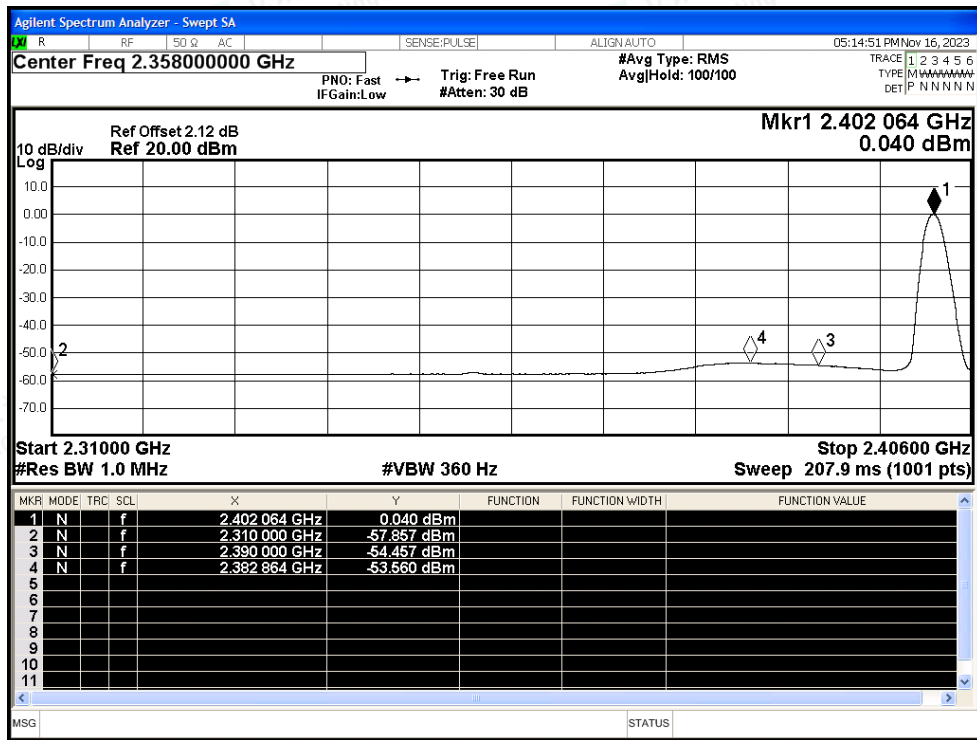


Test Graphs

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

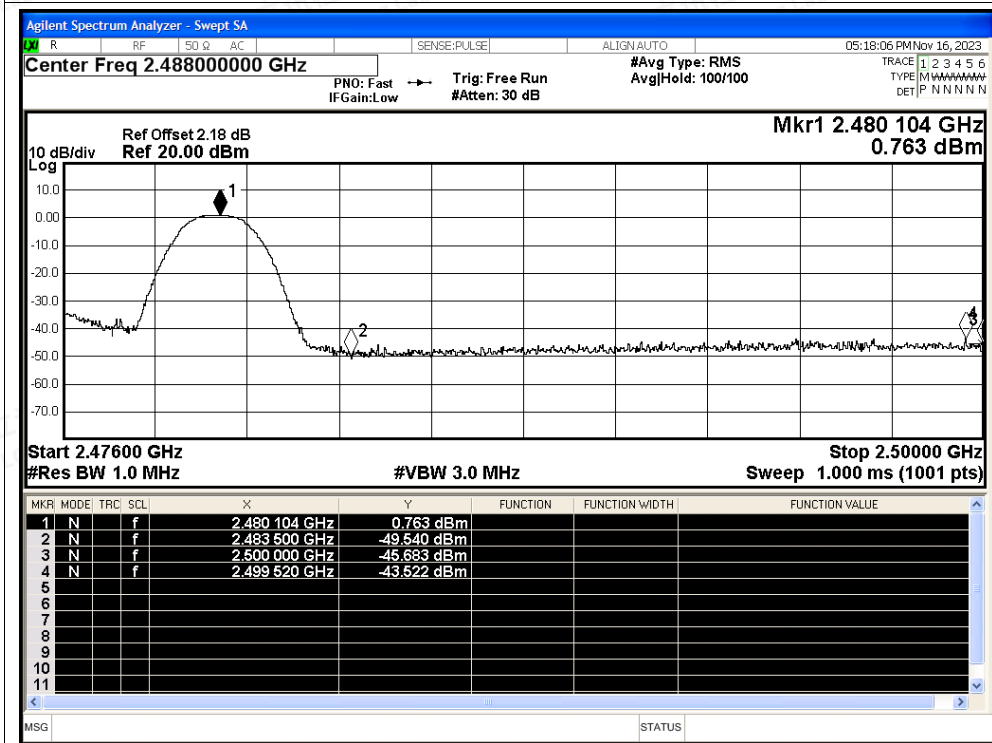


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

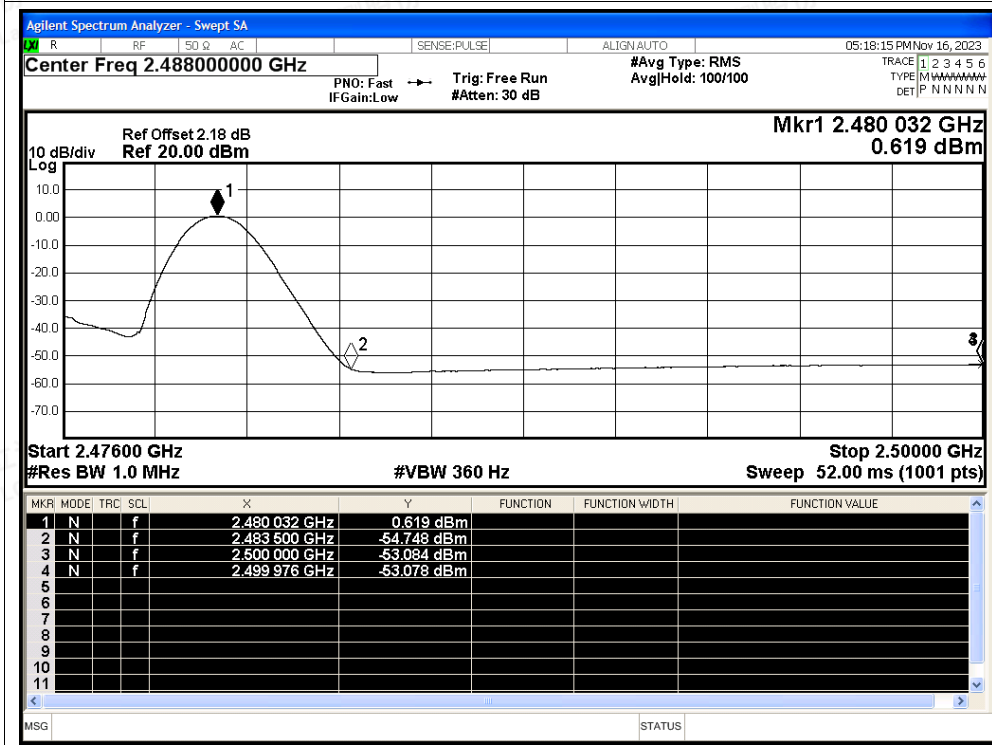




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

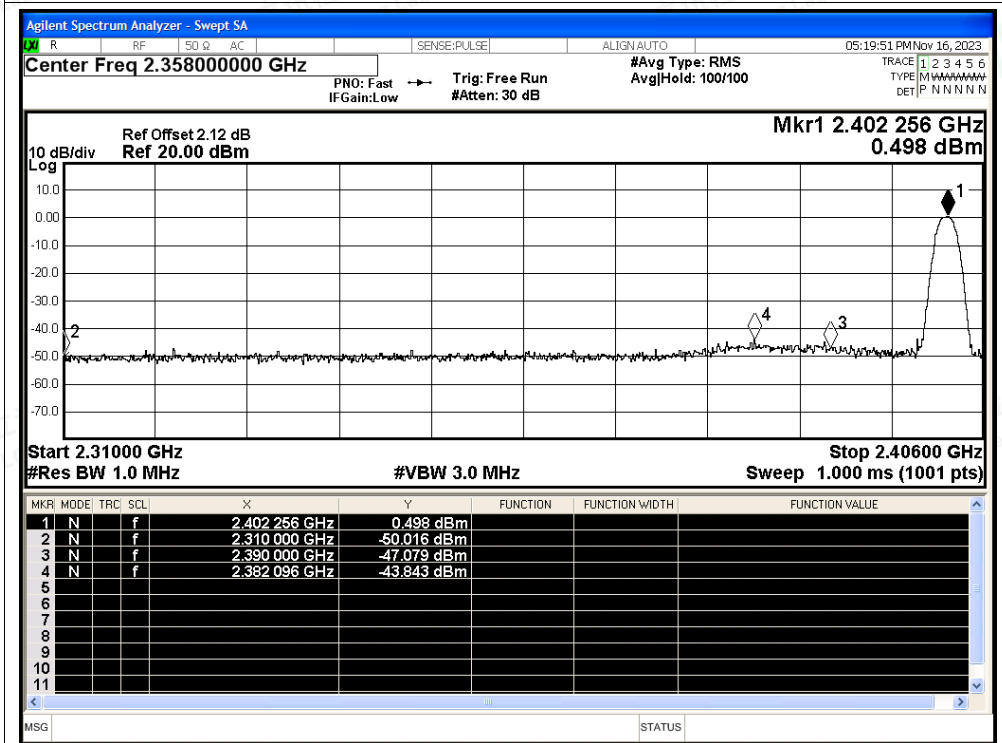


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

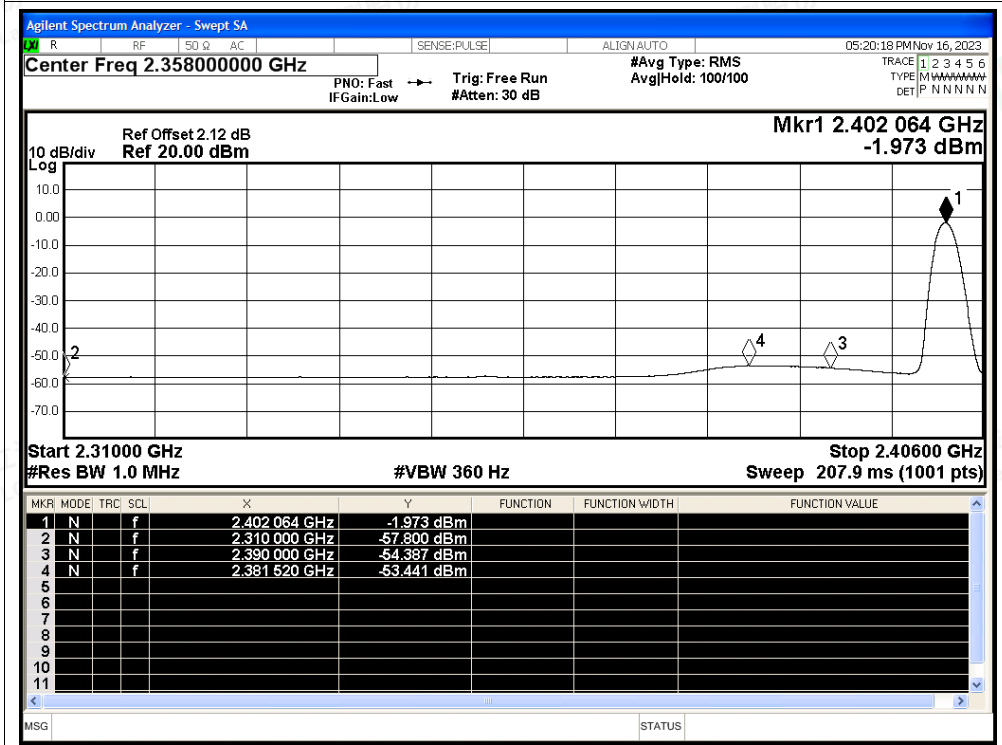




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

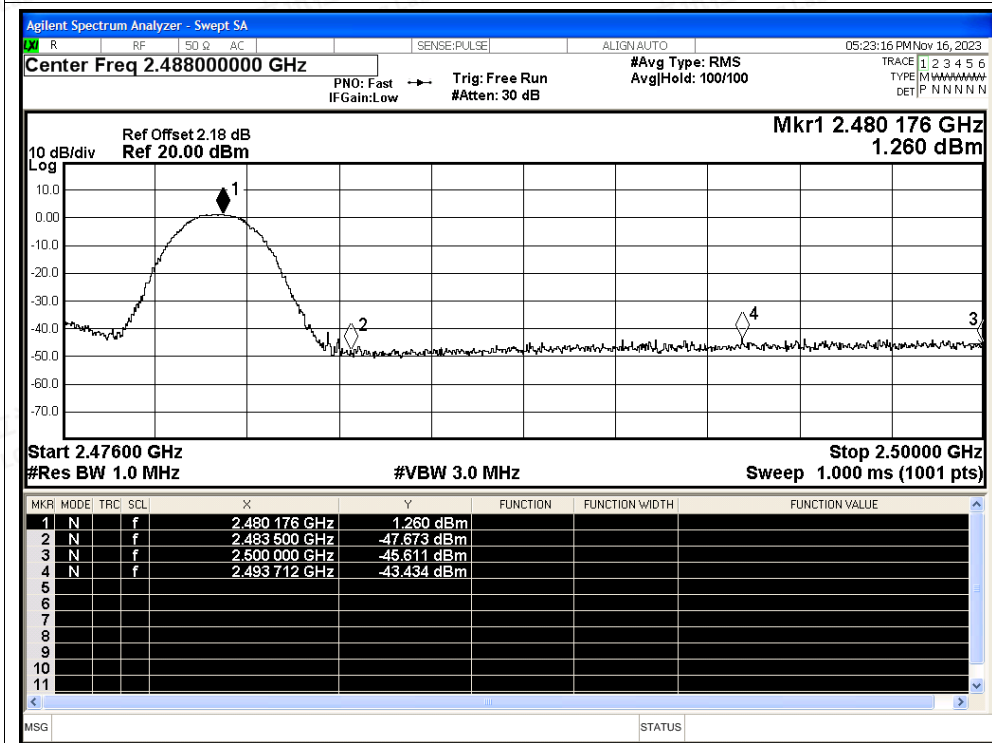


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

