

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smartphone

Test Model: ZG65



Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
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	0.967	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.971	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.024	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.291	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.281	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.28	N/A	Pass

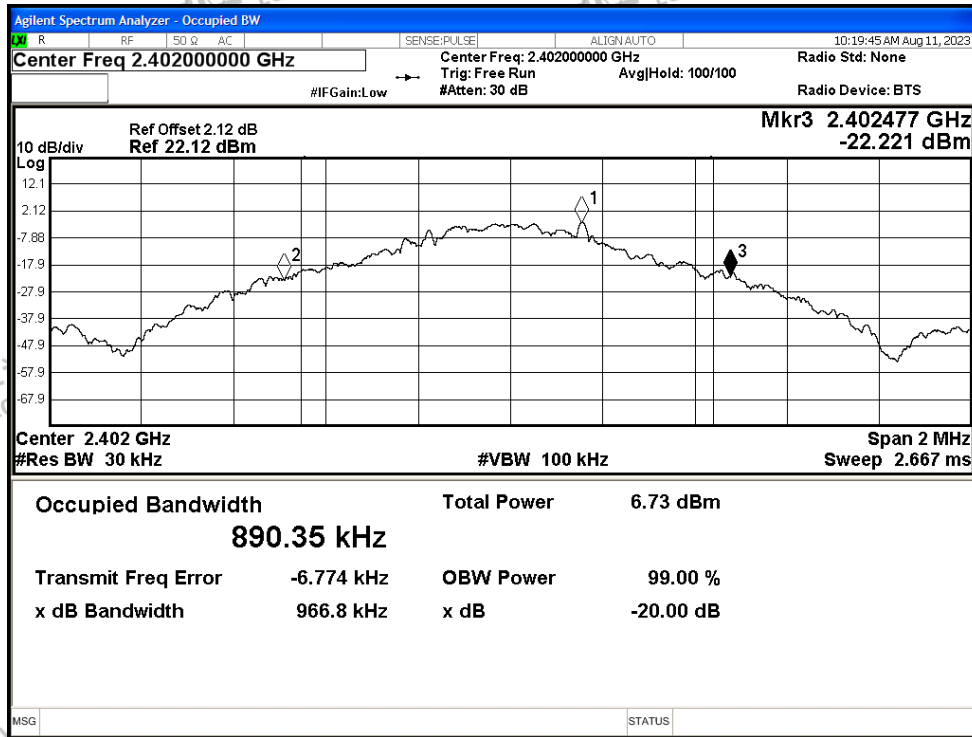


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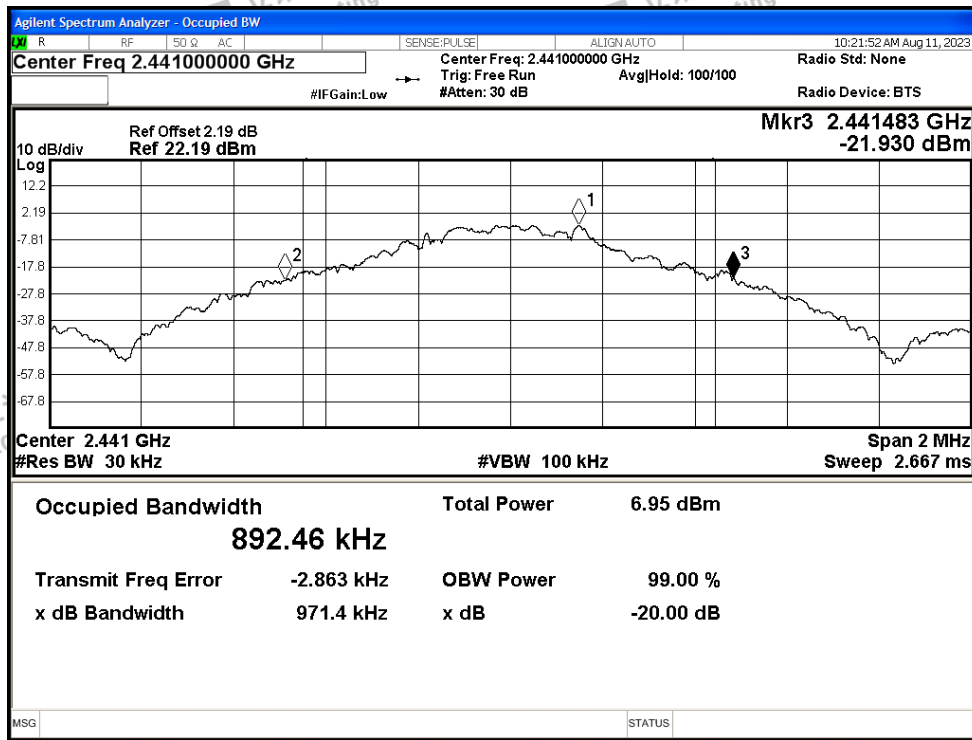


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

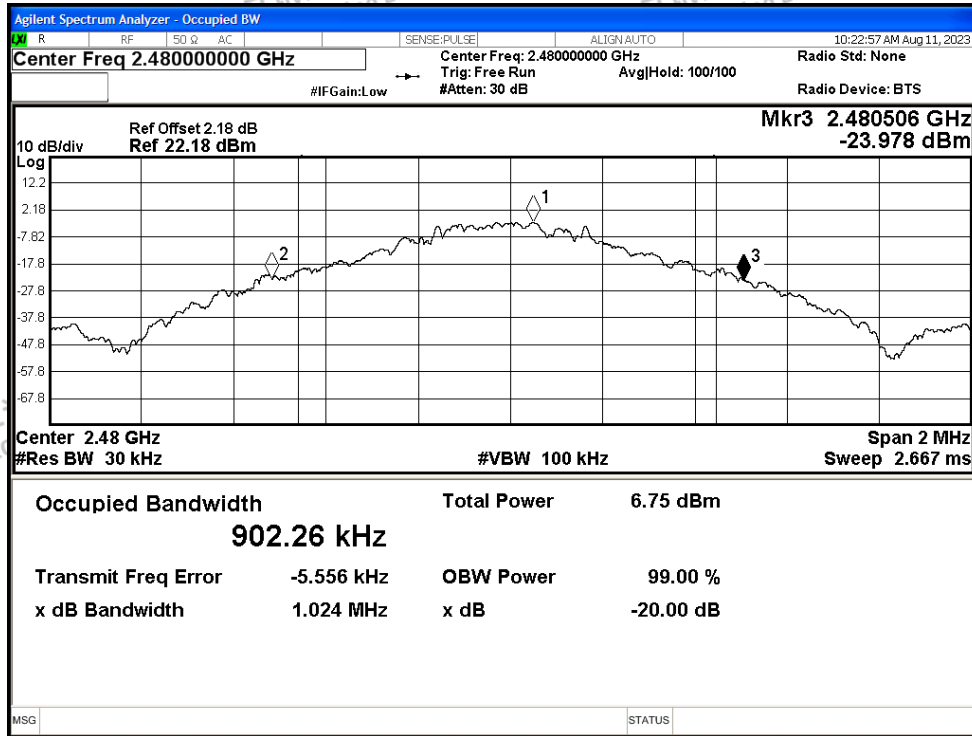


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

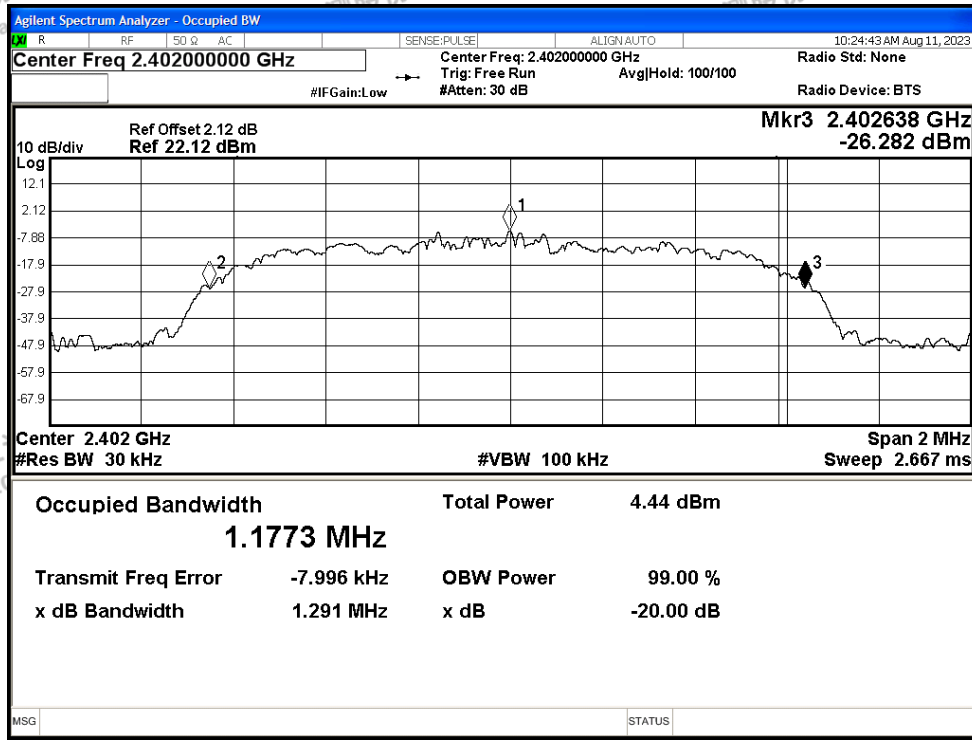




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

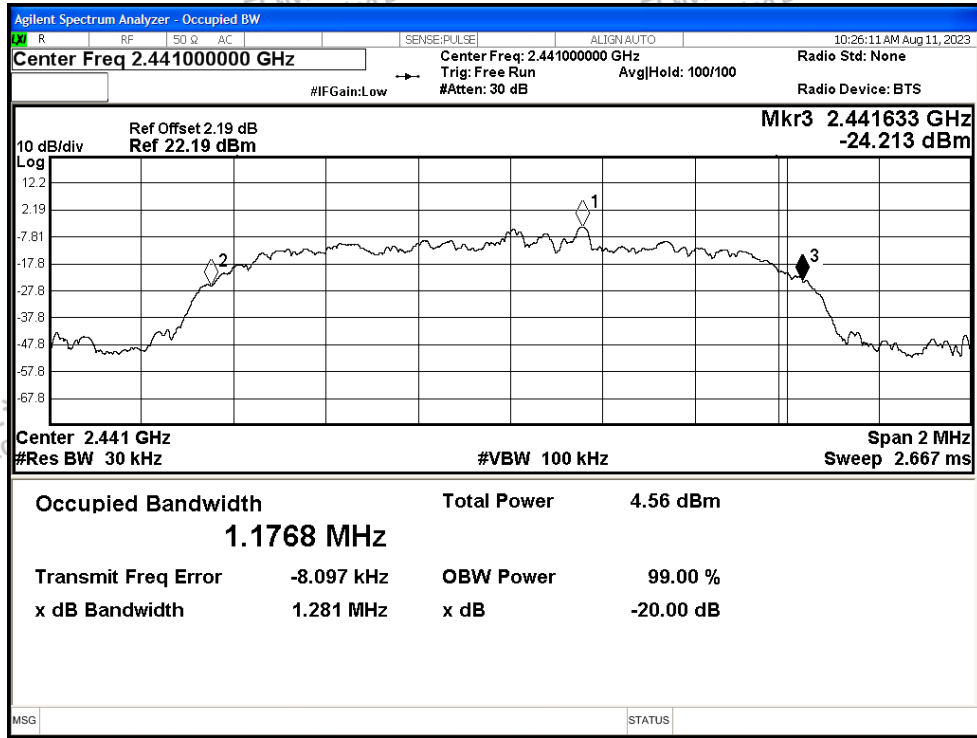


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

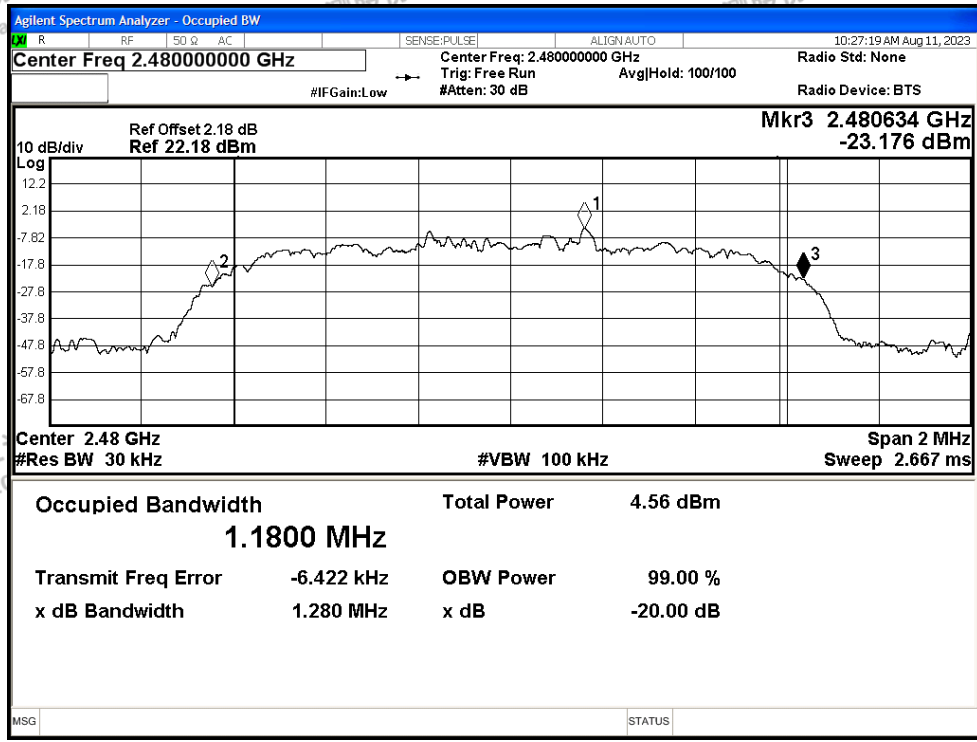




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.26	21	Pass
NVNT	1-DH5	2441	Ant1	0.47	21	Pass
NVNT	1-DH5	2480	Ant1	0.54	21	Pass
NVNT	2-DH5	2402	Ant1	0.08	21	Pass
NVNT	2-DH5	2441	Ant1	-0.06	21	Pass
NVNT	2-DH5	2480	Ant1	-0.01	21	Pass

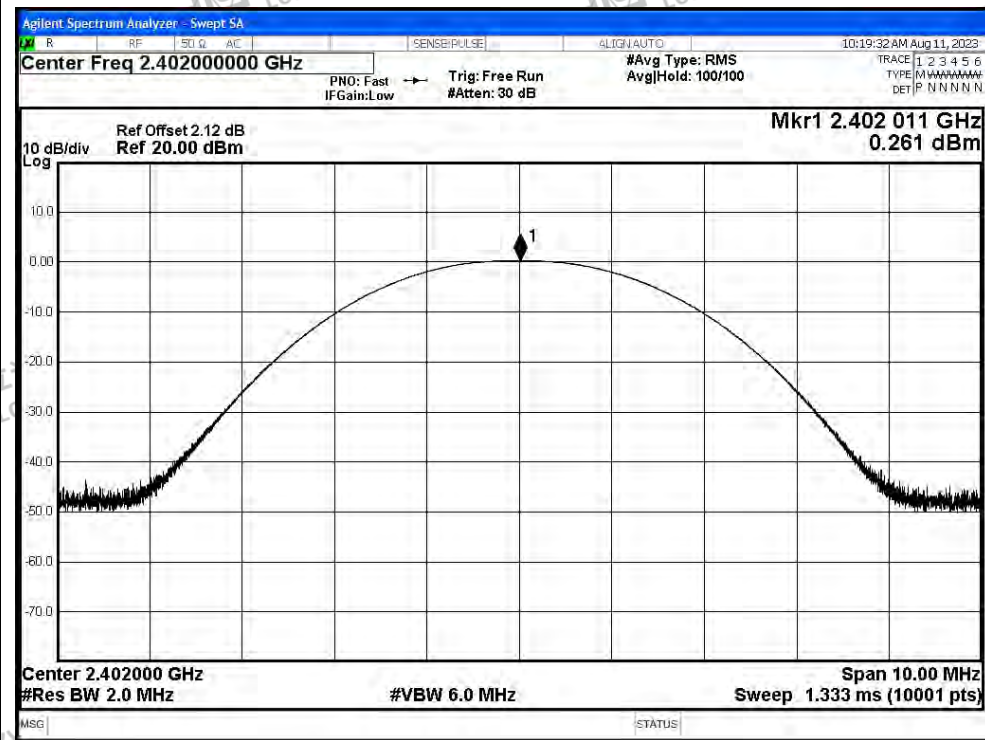


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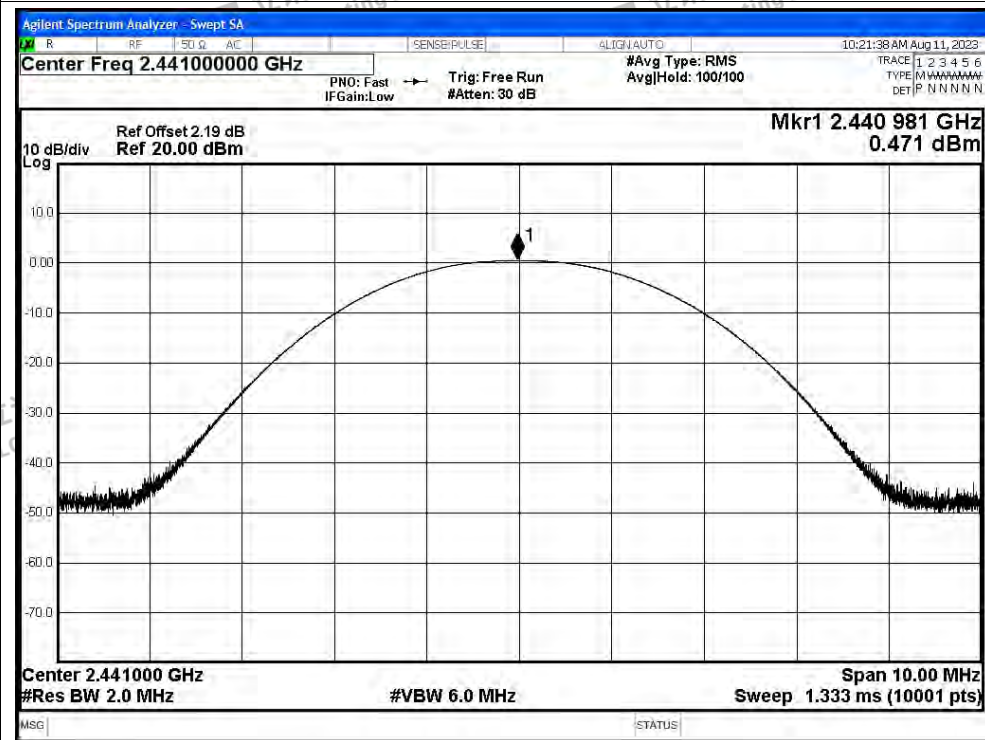


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

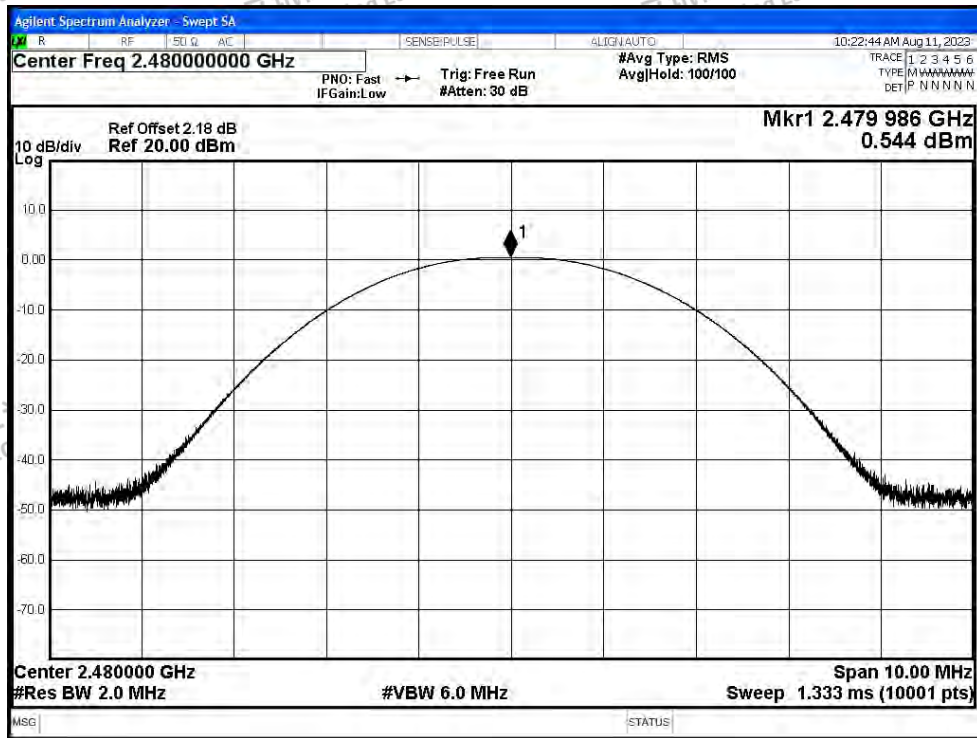


Power NVNT 1-DH5 2441MHz Ant1

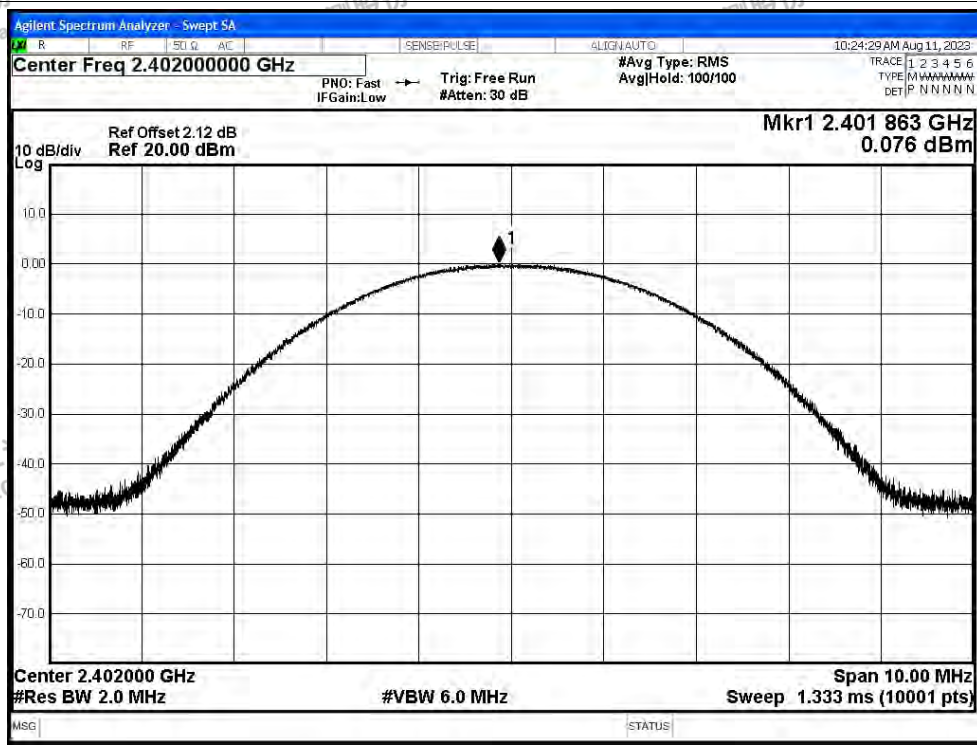




Power NVNT 1-DH5 2480MHz Ant1

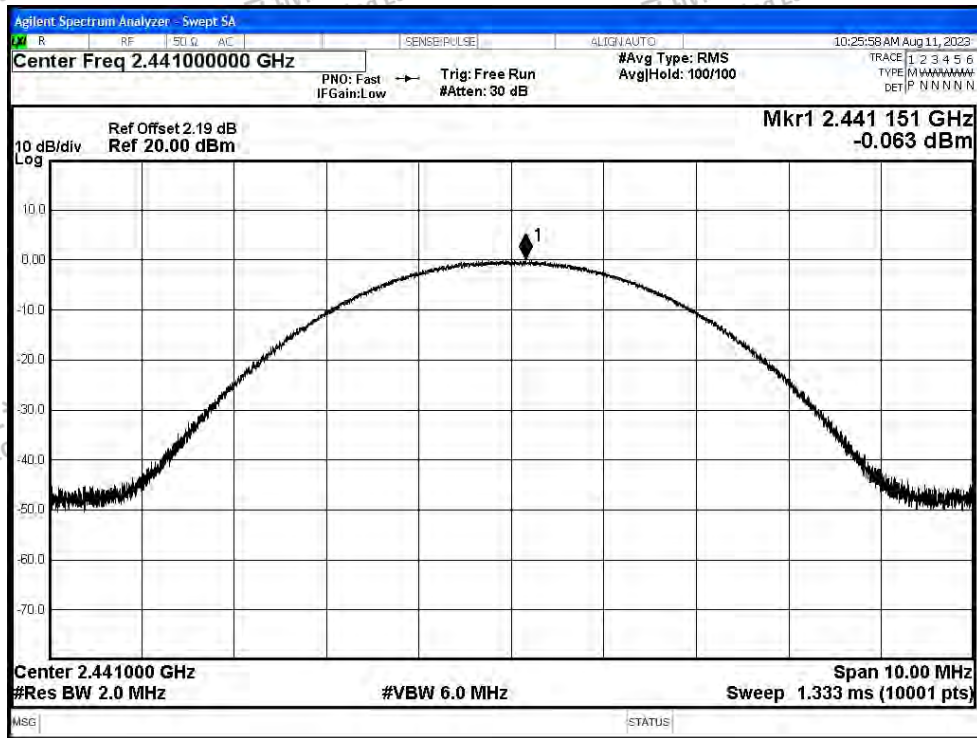


Power NVNT 2-DH5 2402MHz Ant1

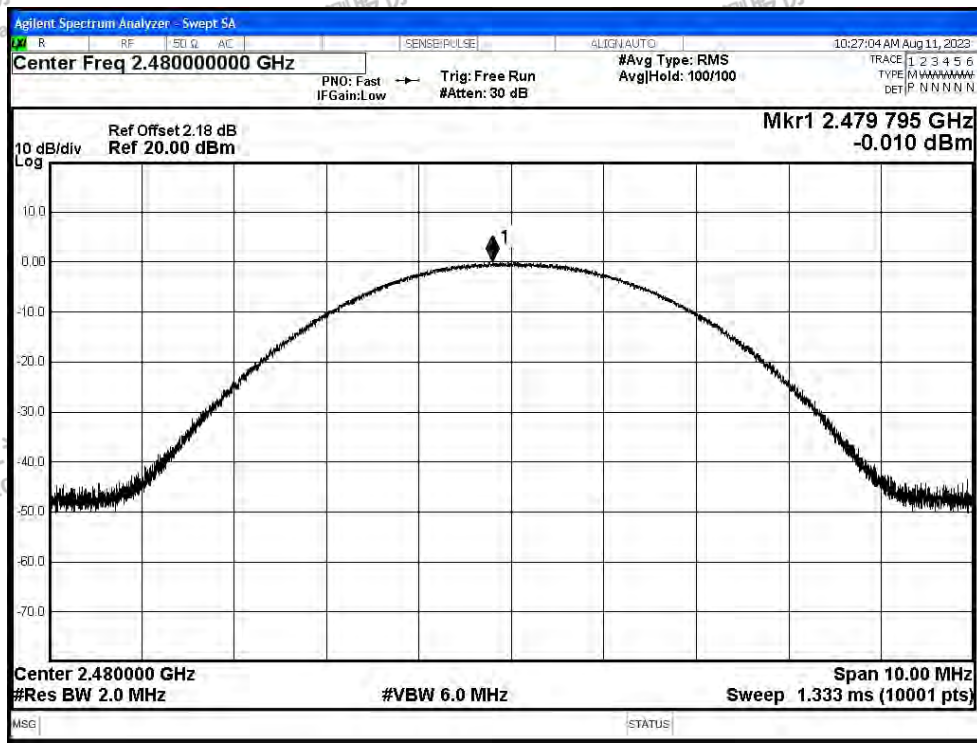




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.958	2402.964	1.006	0.803	Pass
NVNT	2-DH5	Ant1	2401.81	2403.152	1.342	0.861	Pass

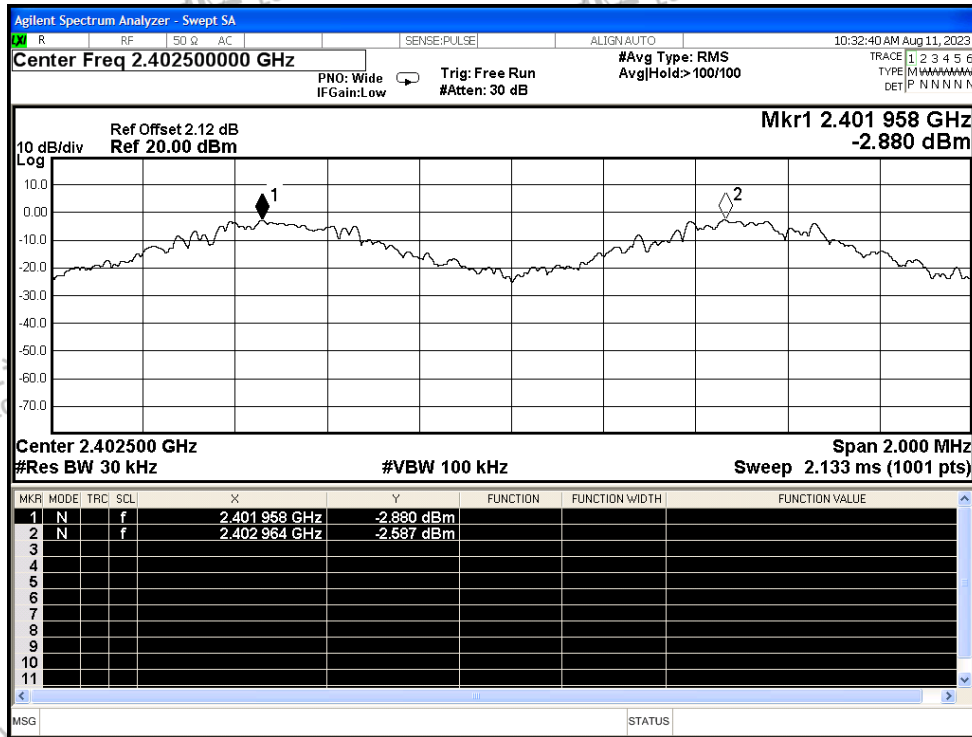


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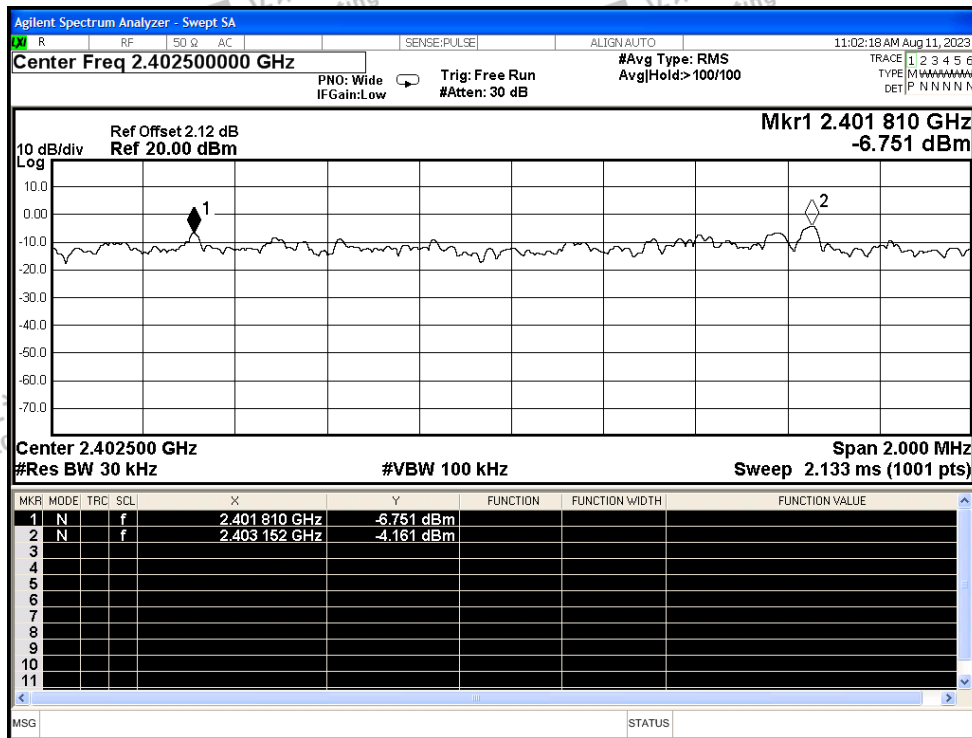


Test Graphs

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	2.882	285.318	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	279.845	97	31600	400	Pass

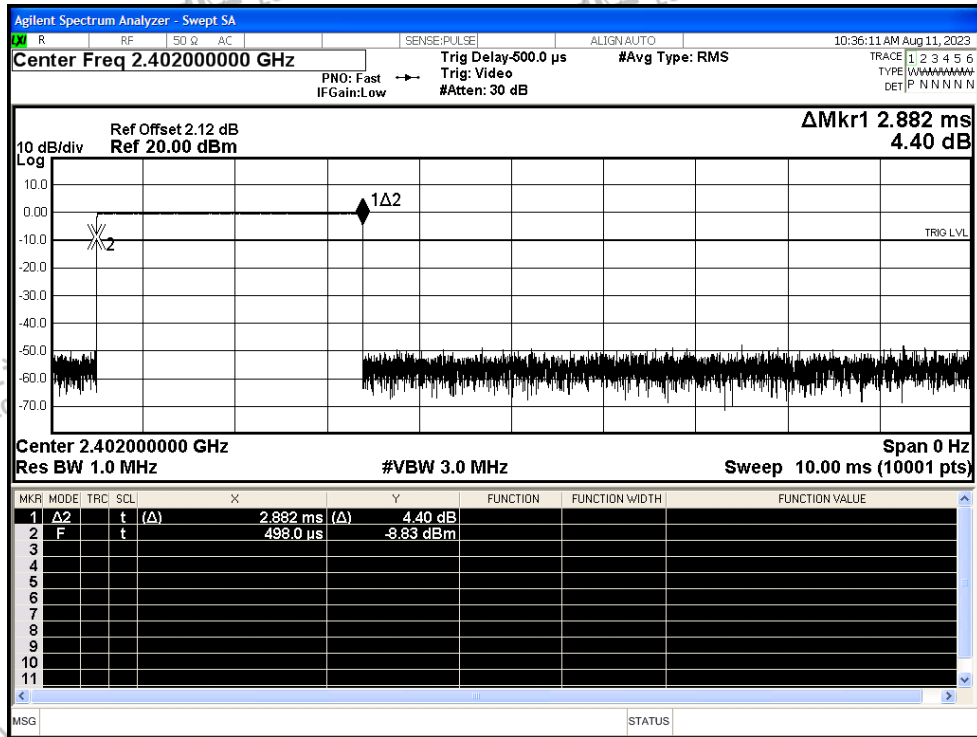


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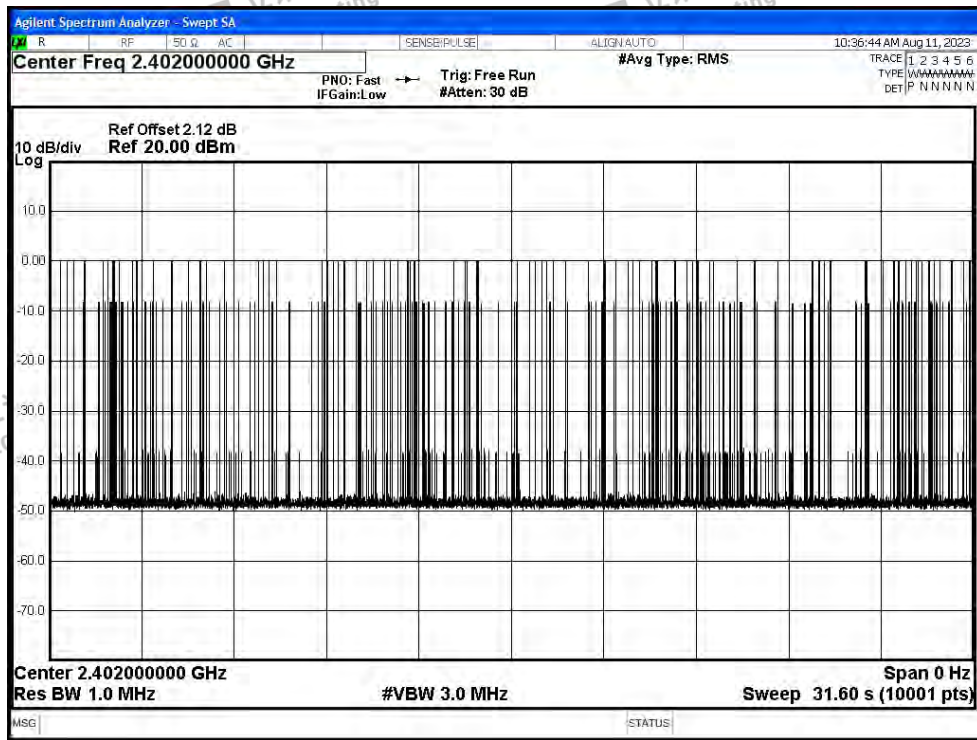


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

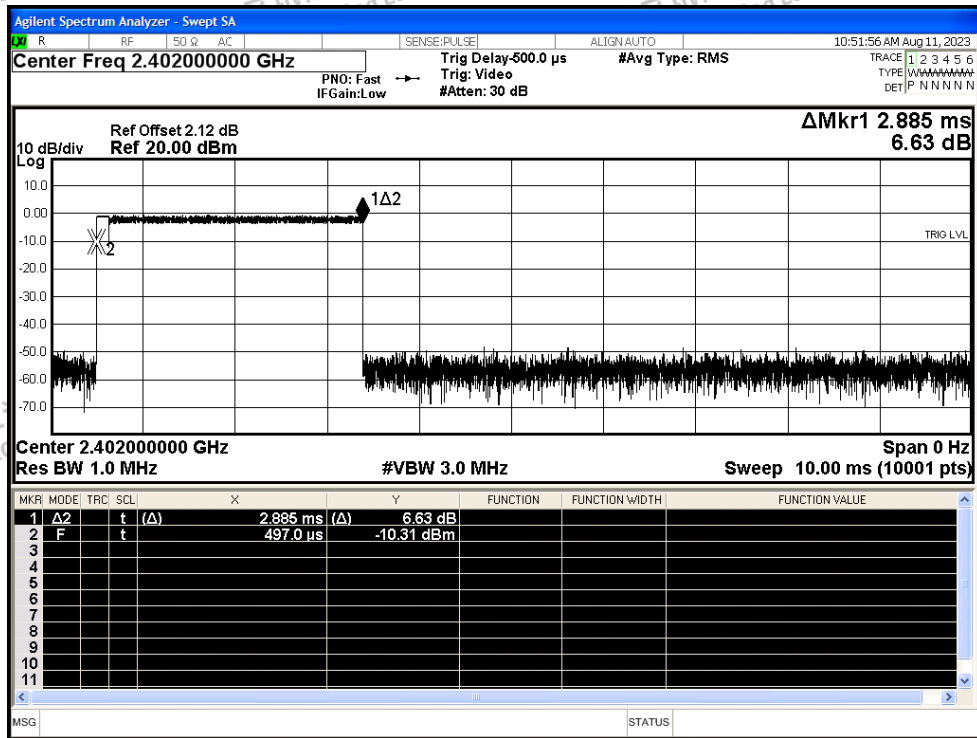


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

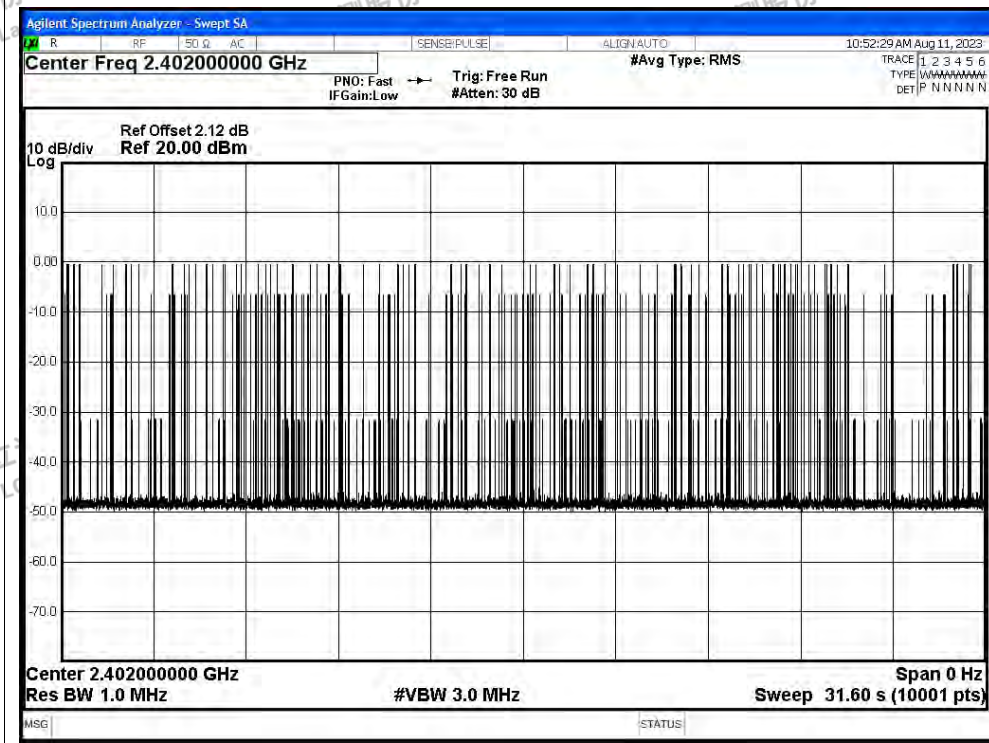




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



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

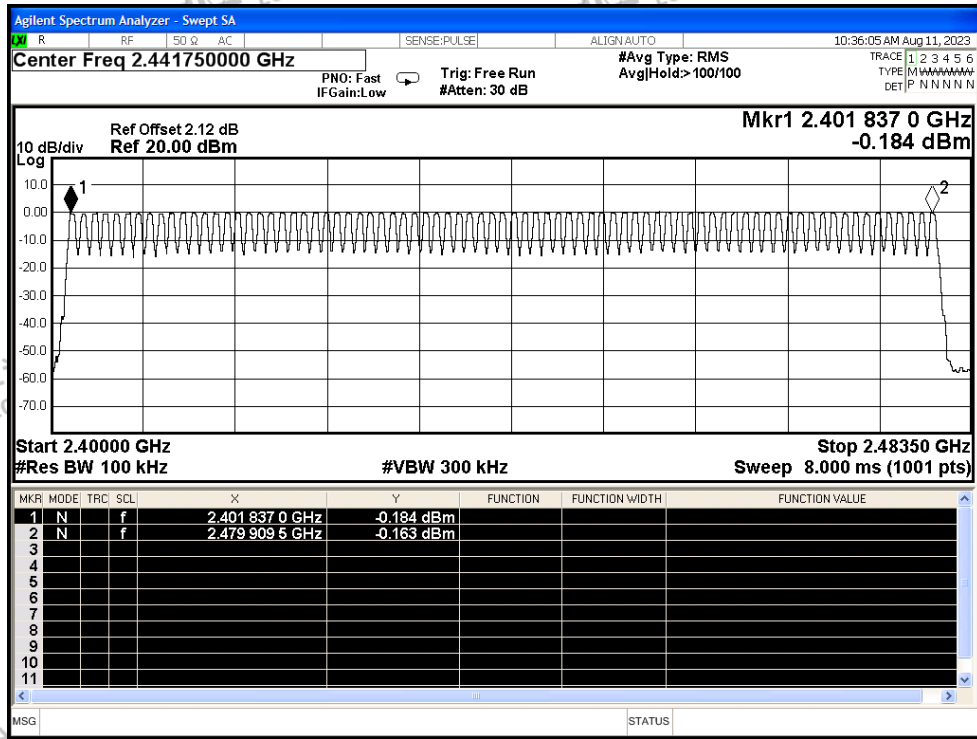


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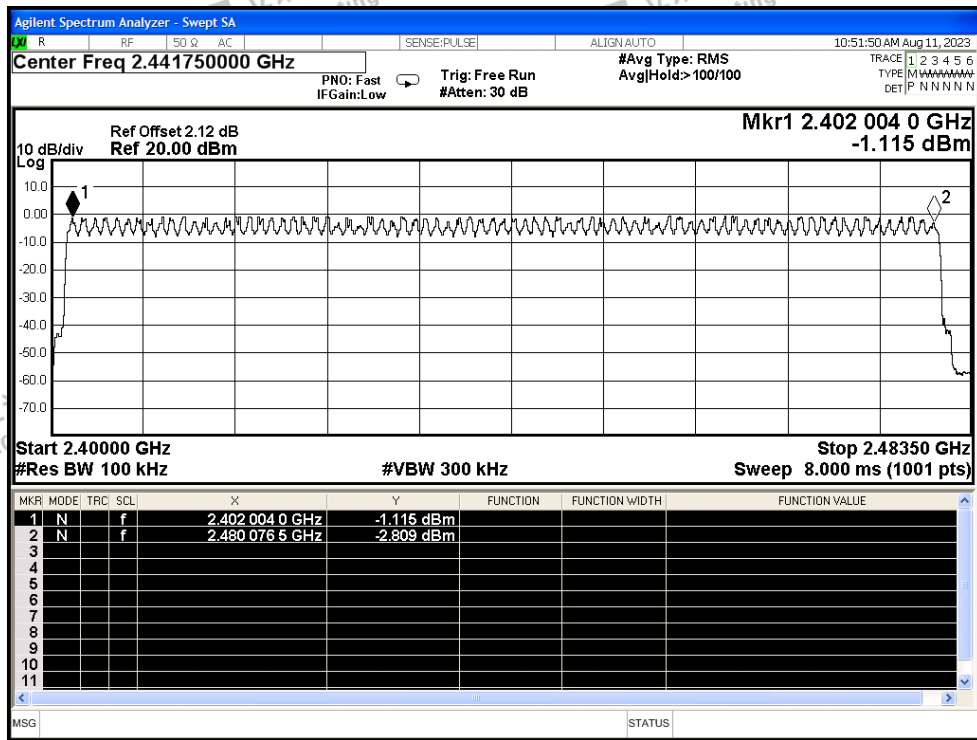


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

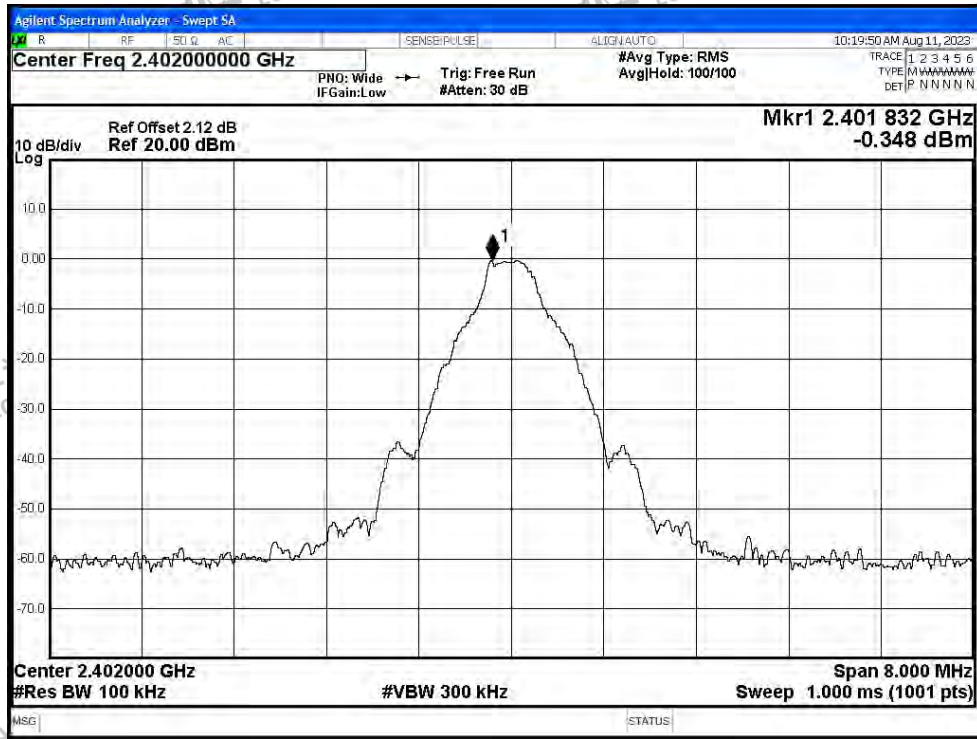
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.26	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.82	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.69	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.71	-20	Pass



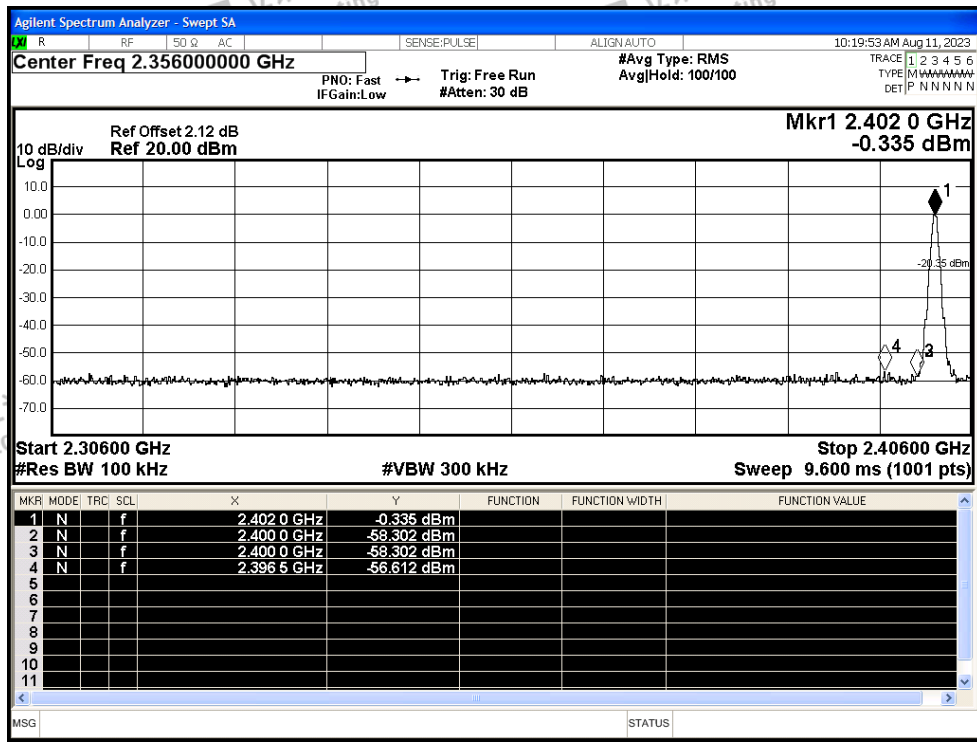


Test Graphs

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

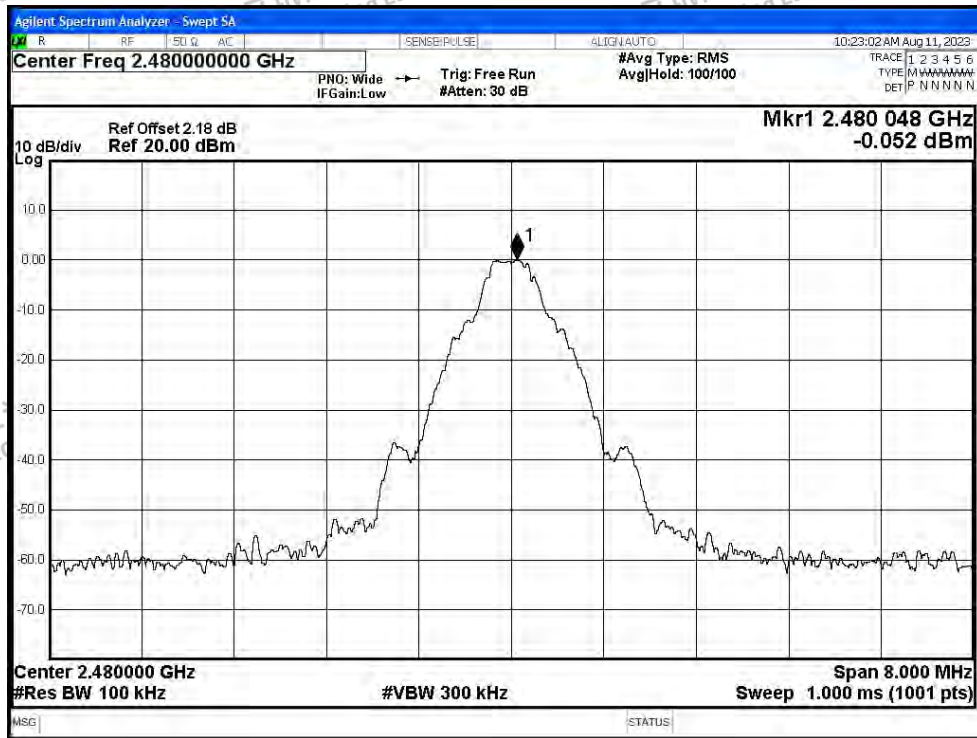


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

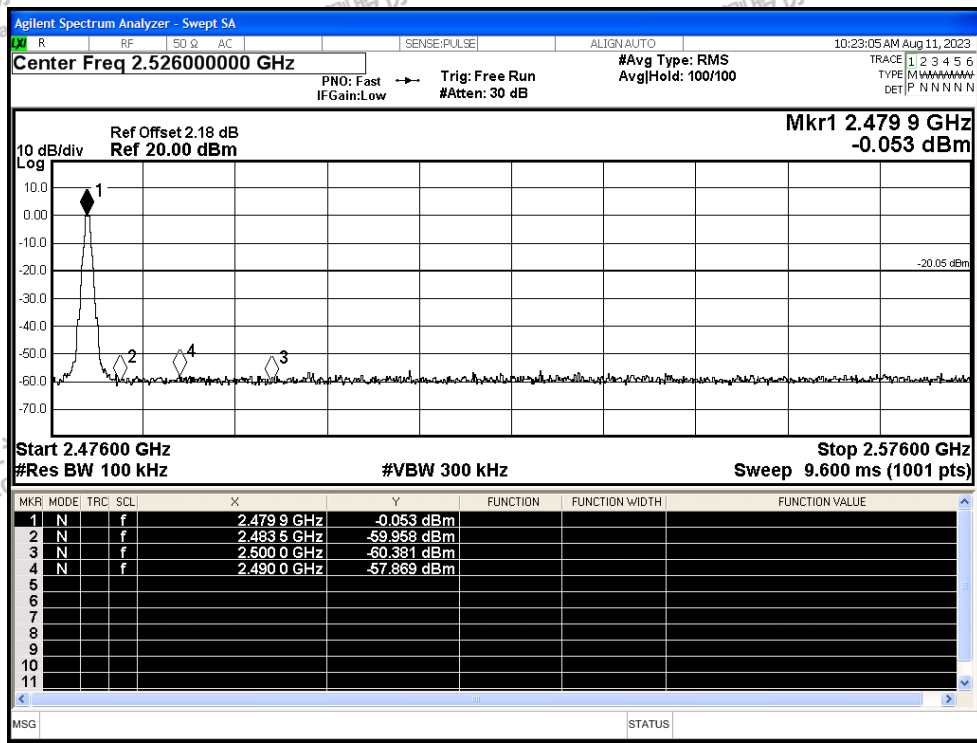




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

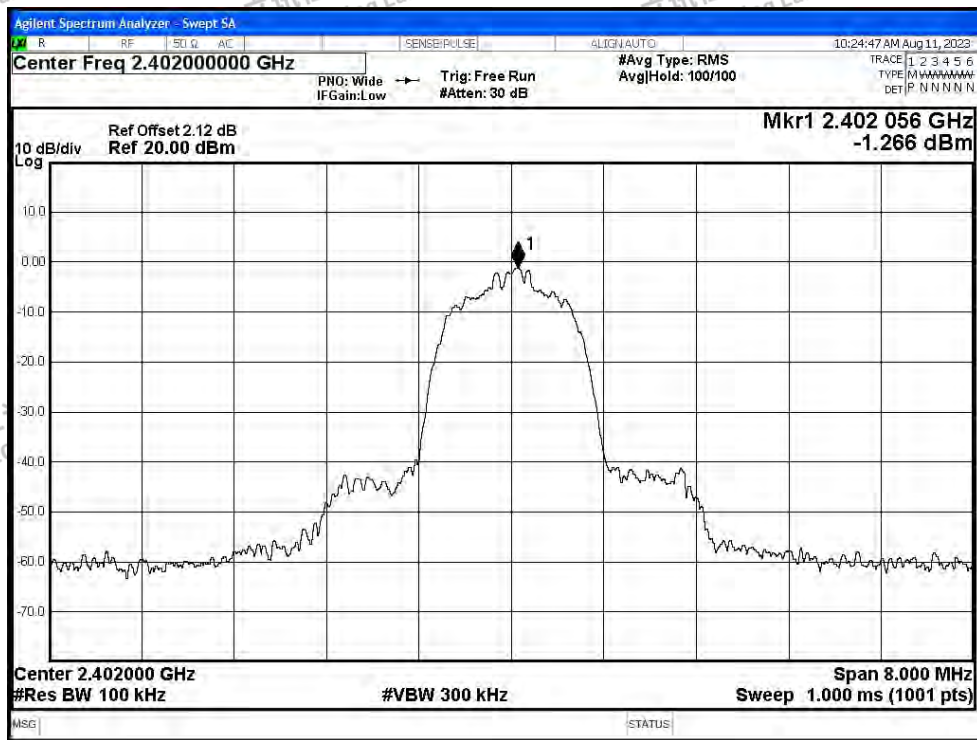


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

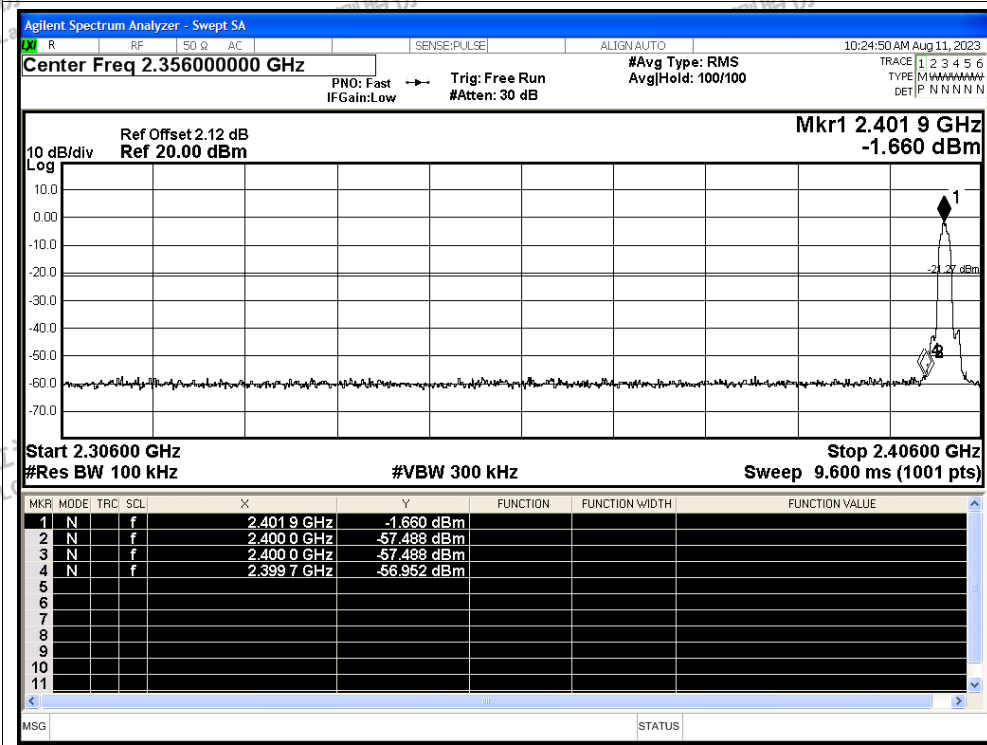




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

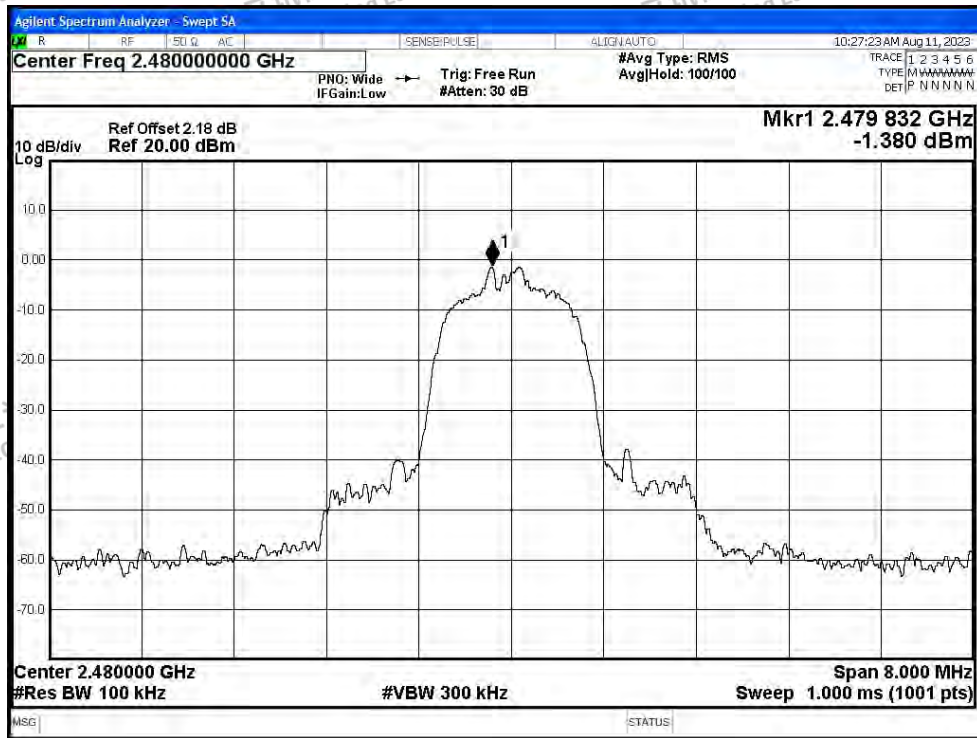


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

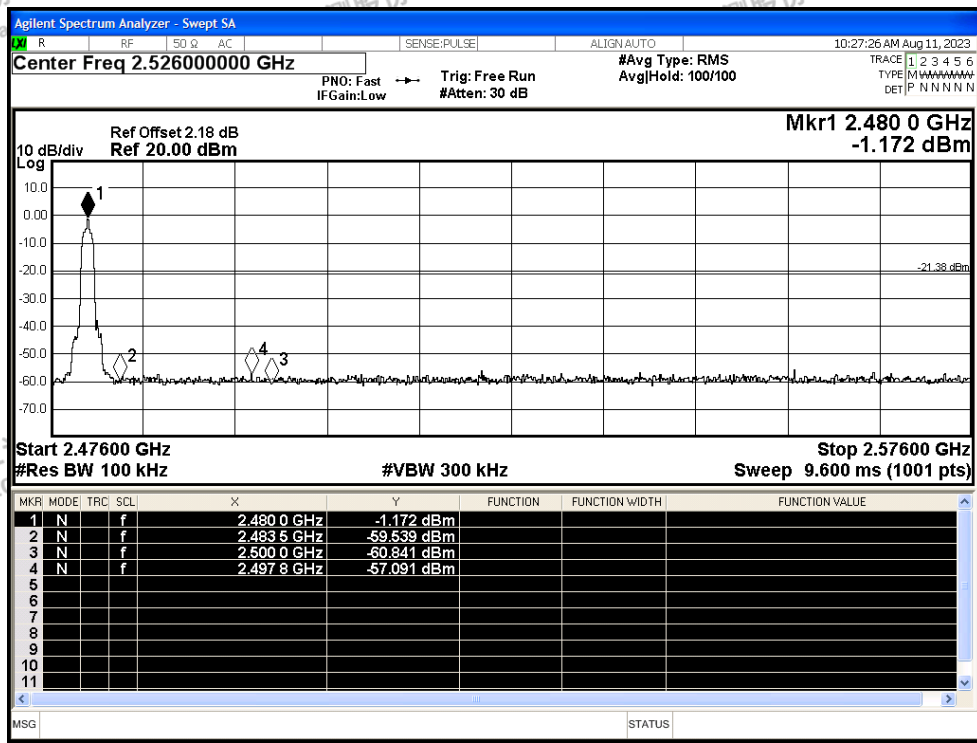




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

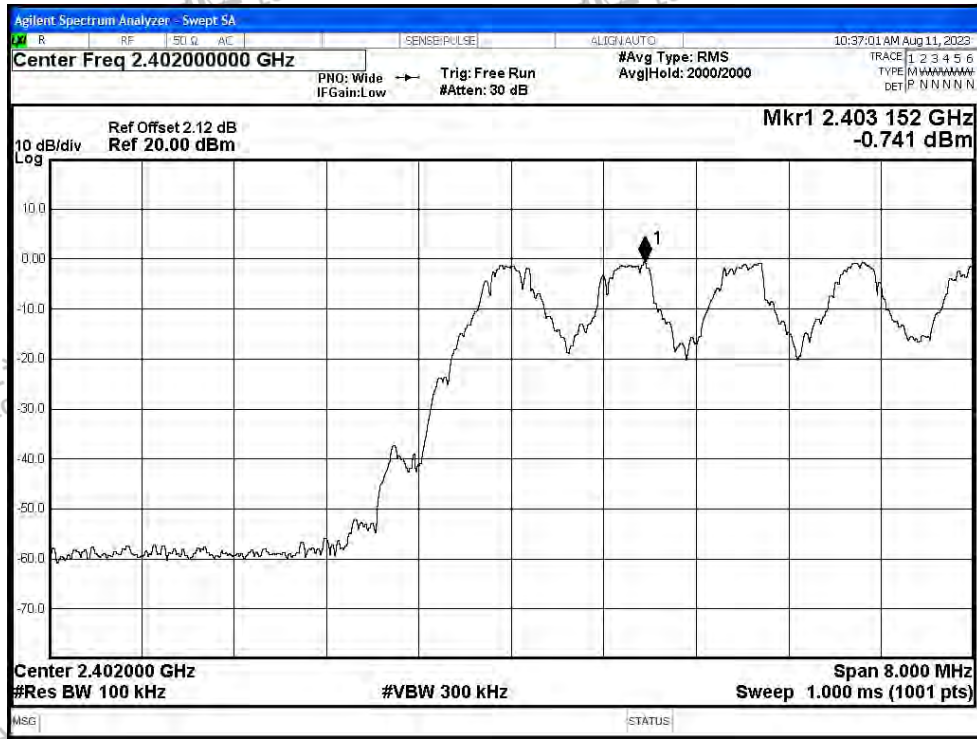
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.62	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.66	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.83	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.84	-20	Pass



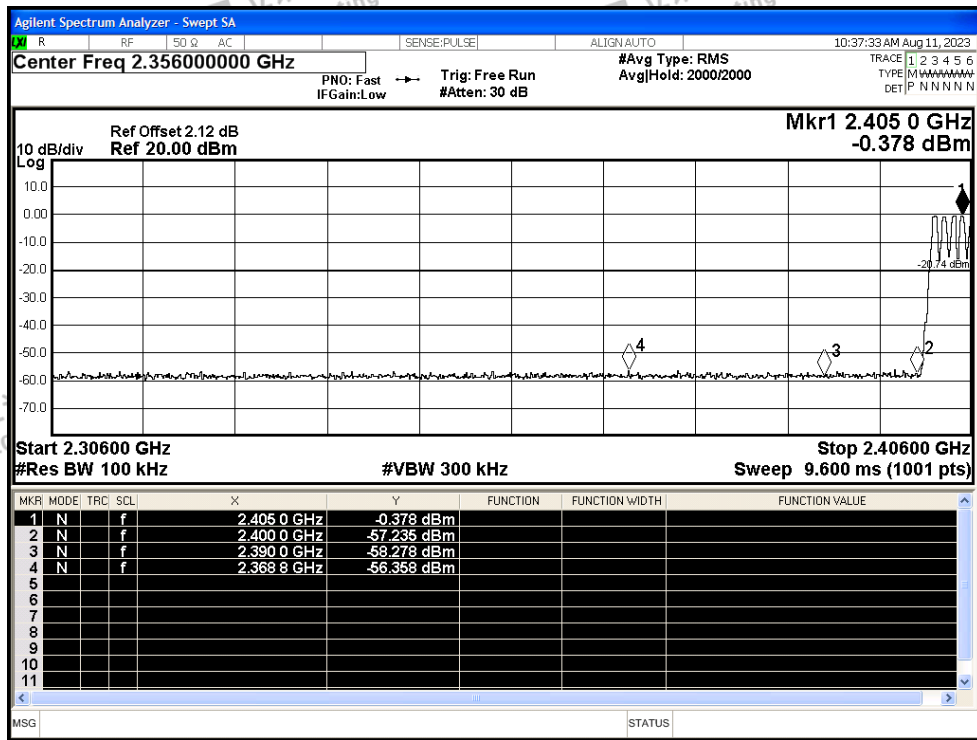


Test Graphs

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

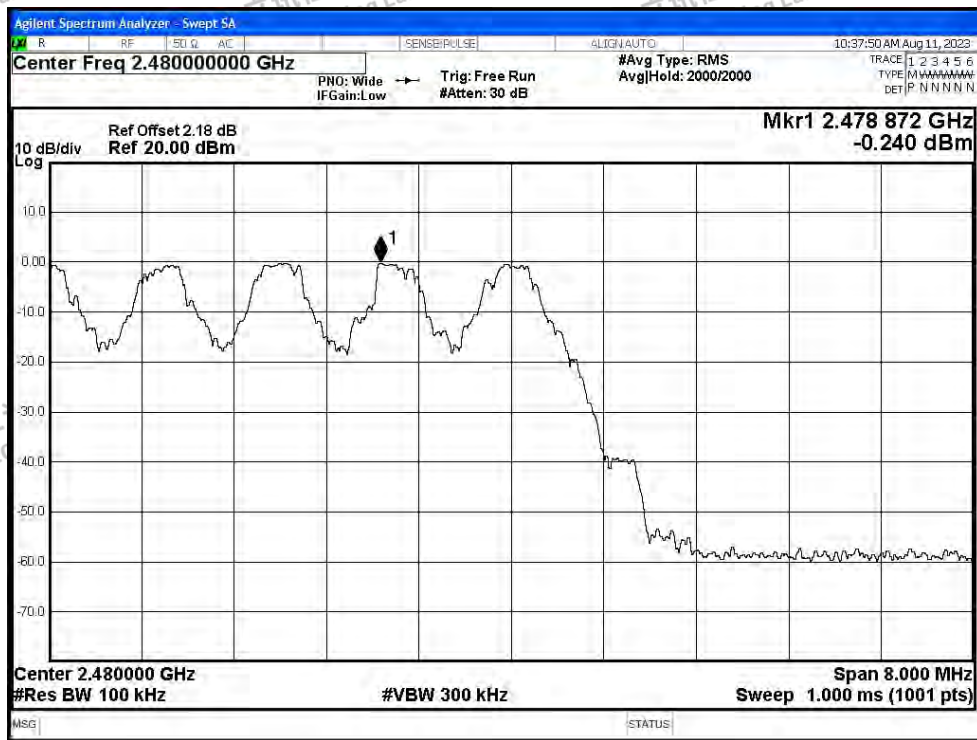


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

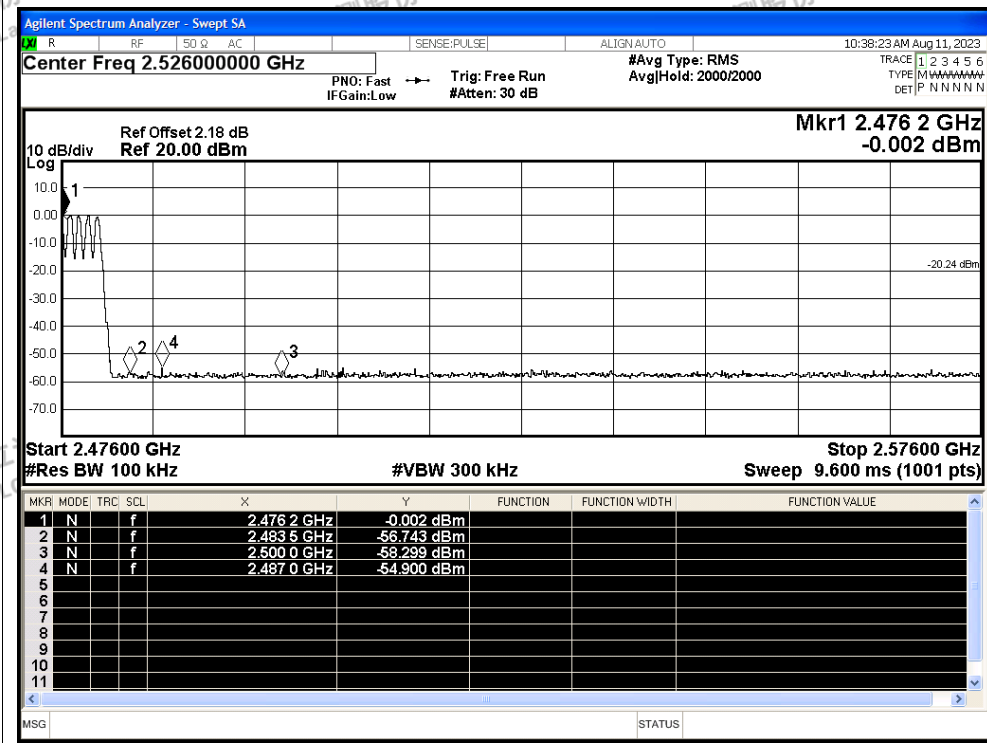




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

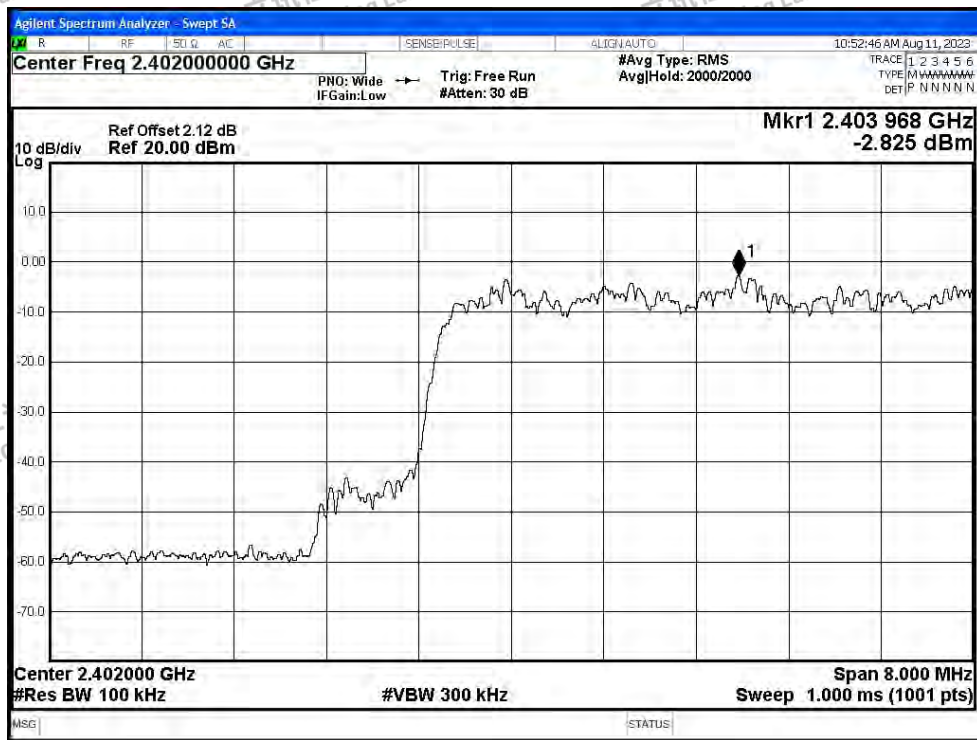


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

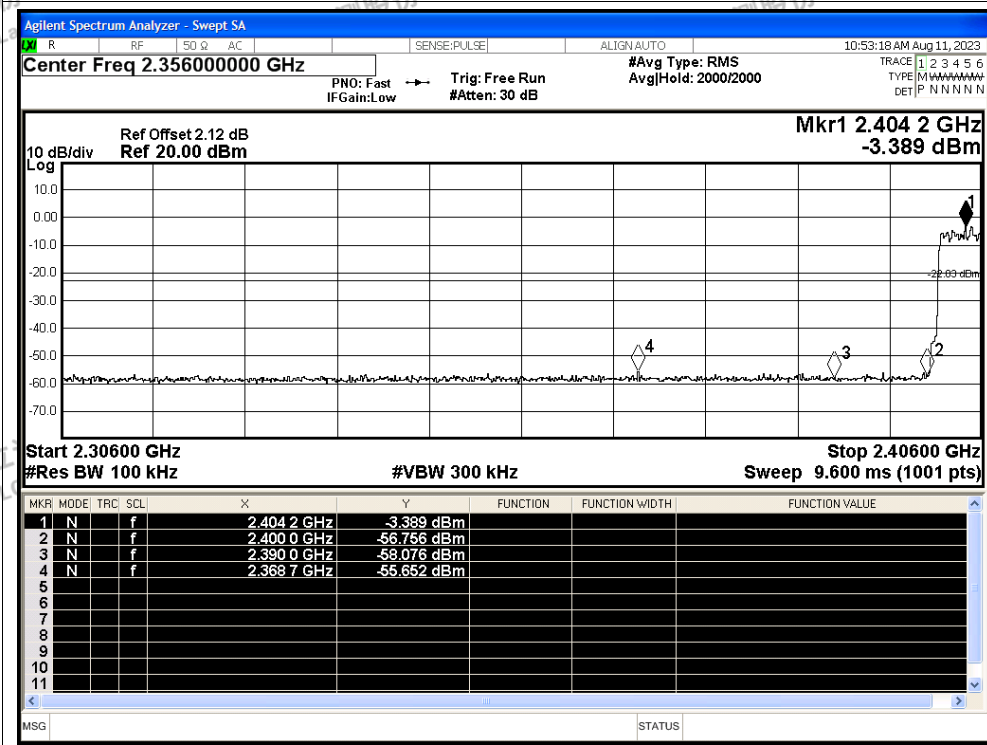




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

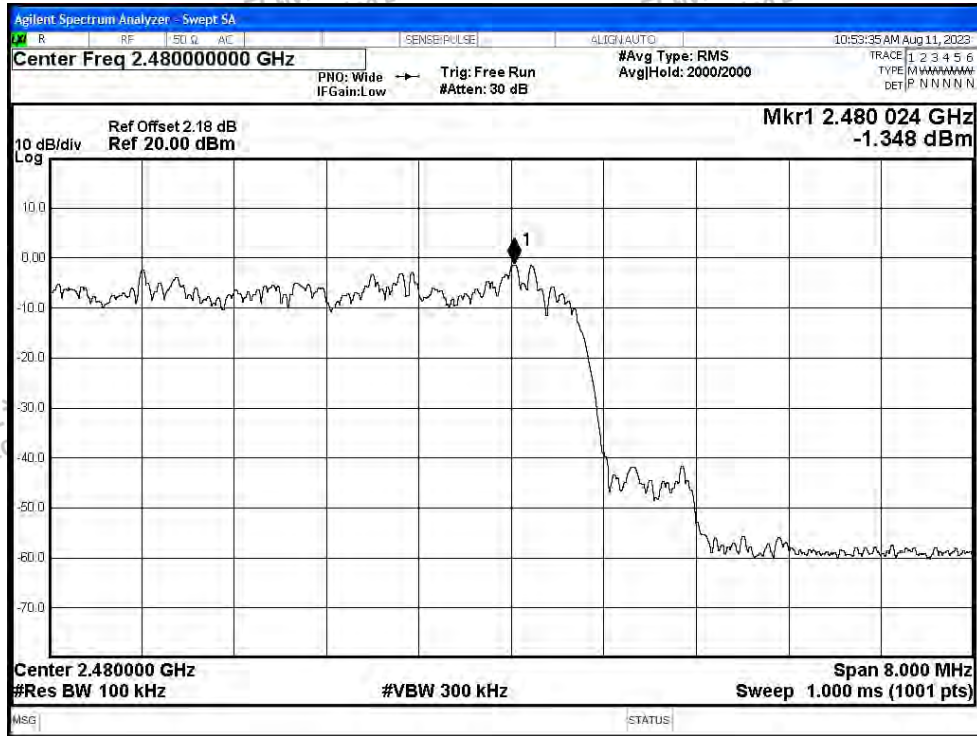


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

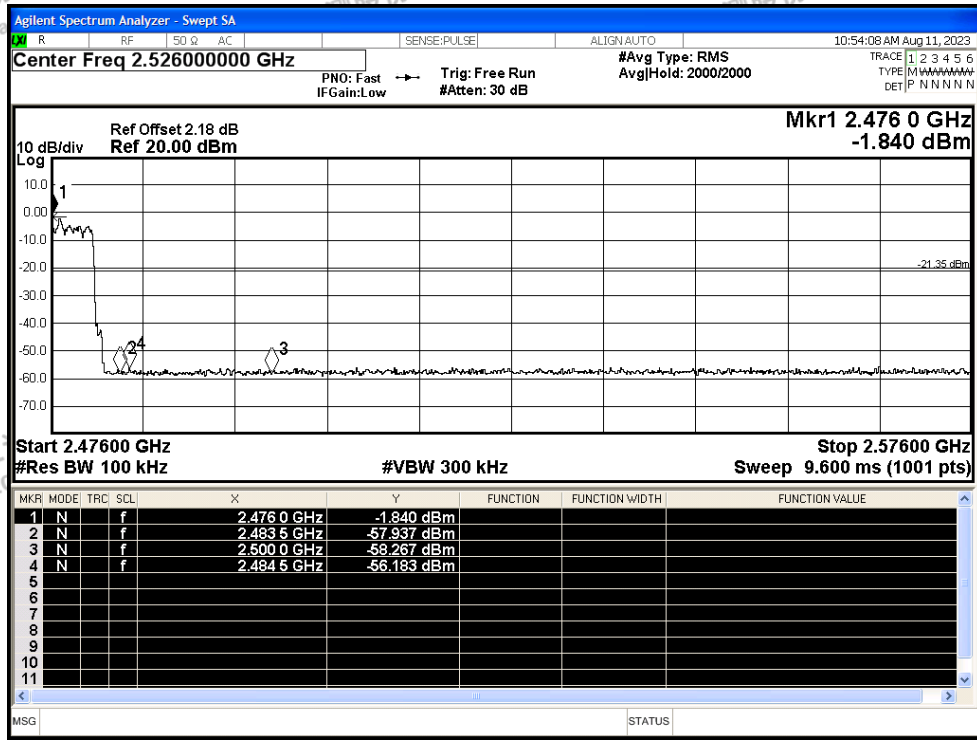




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.02	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.64	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.42	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.56	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.34	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.49	-20	Pass

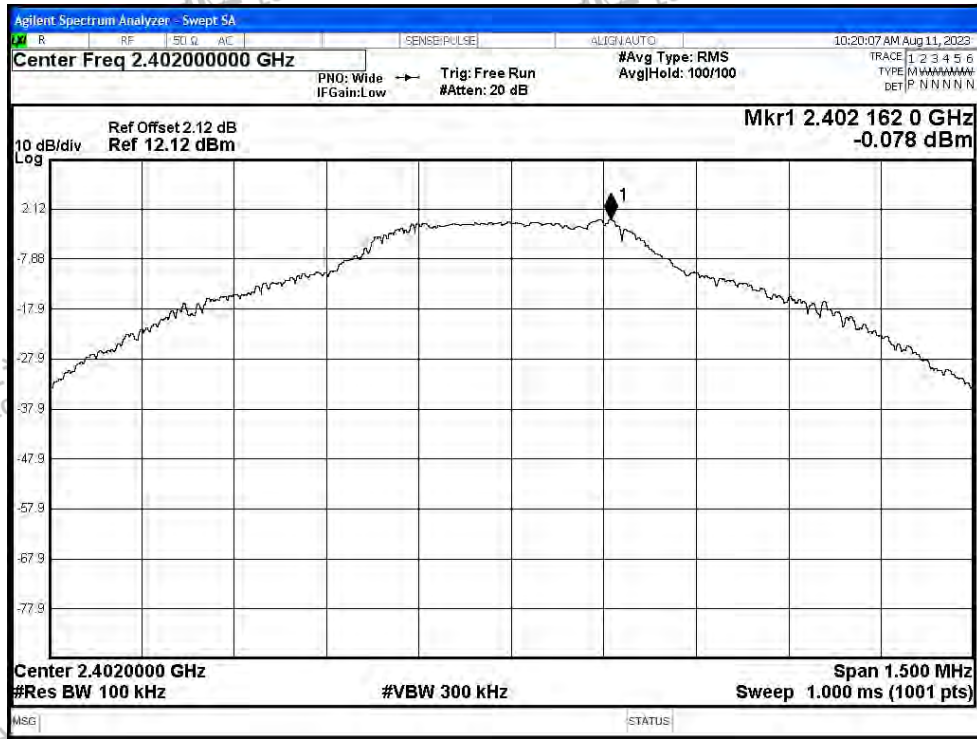


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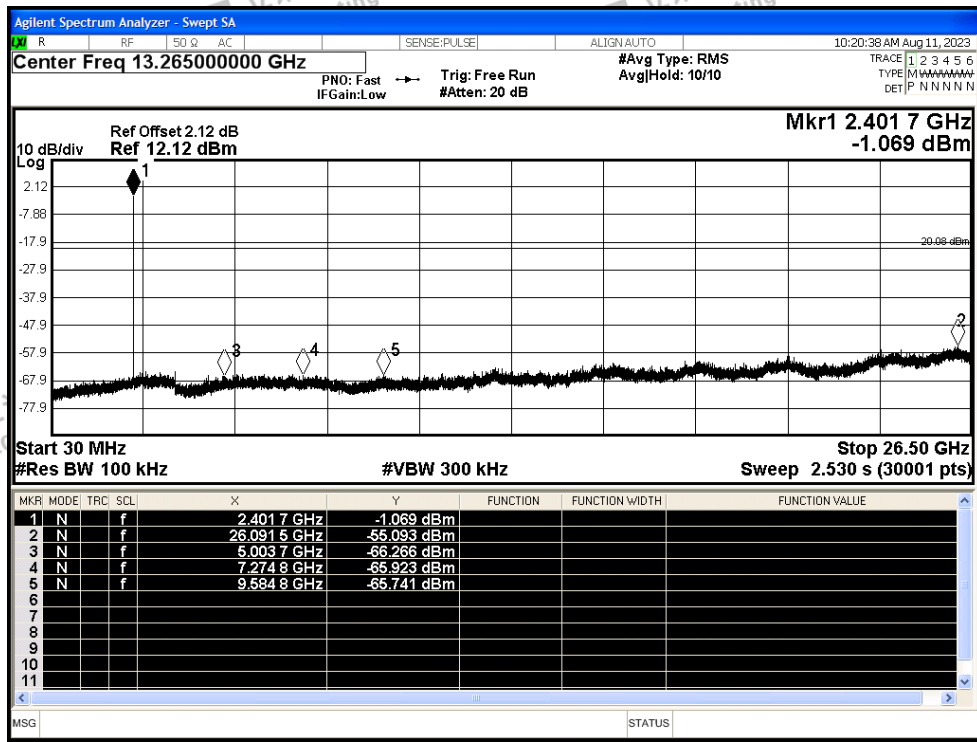


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

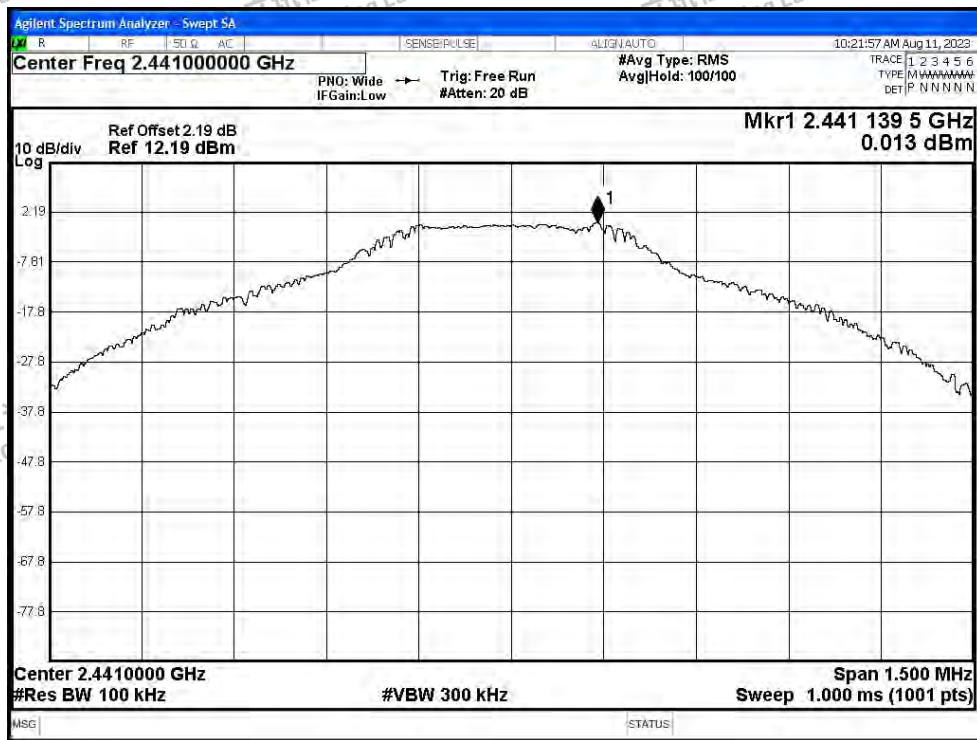


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

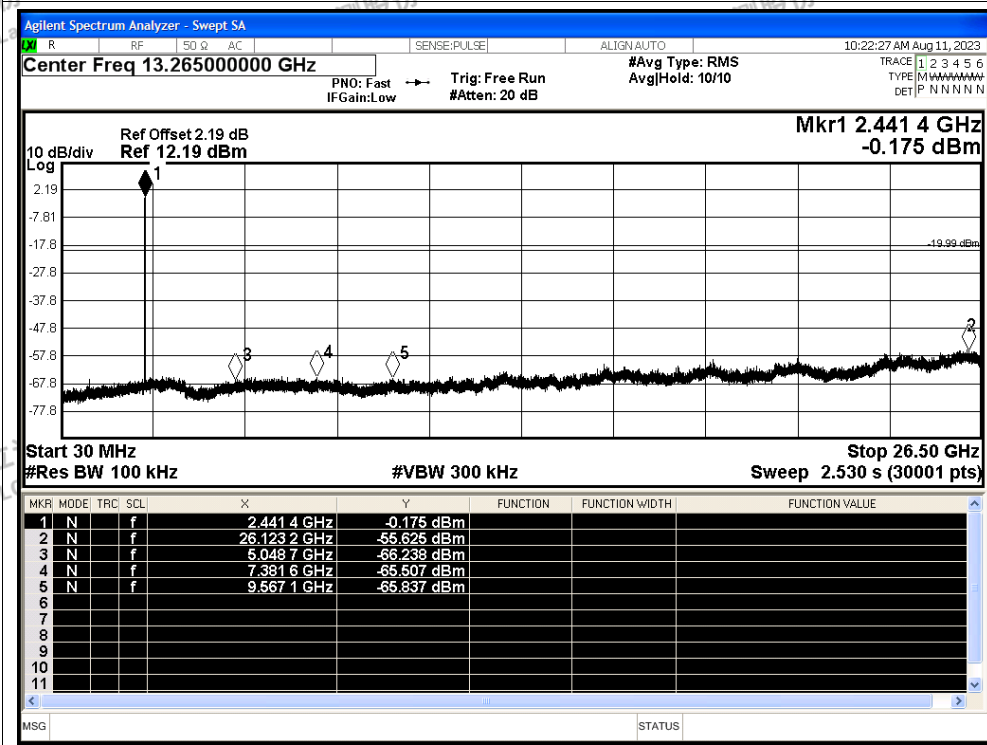




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

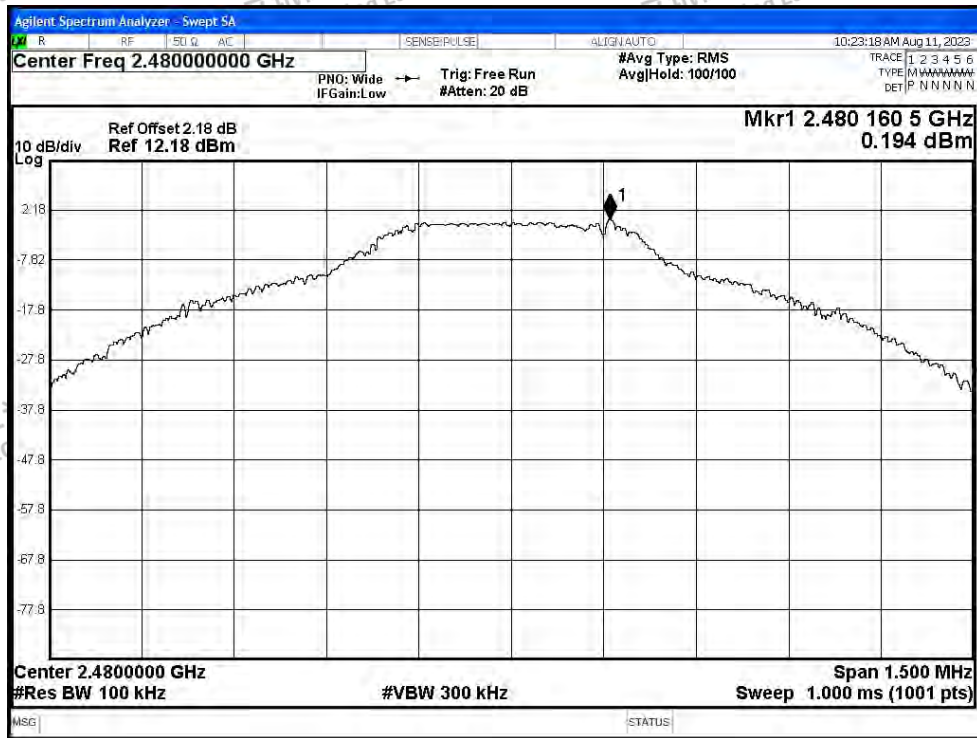


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

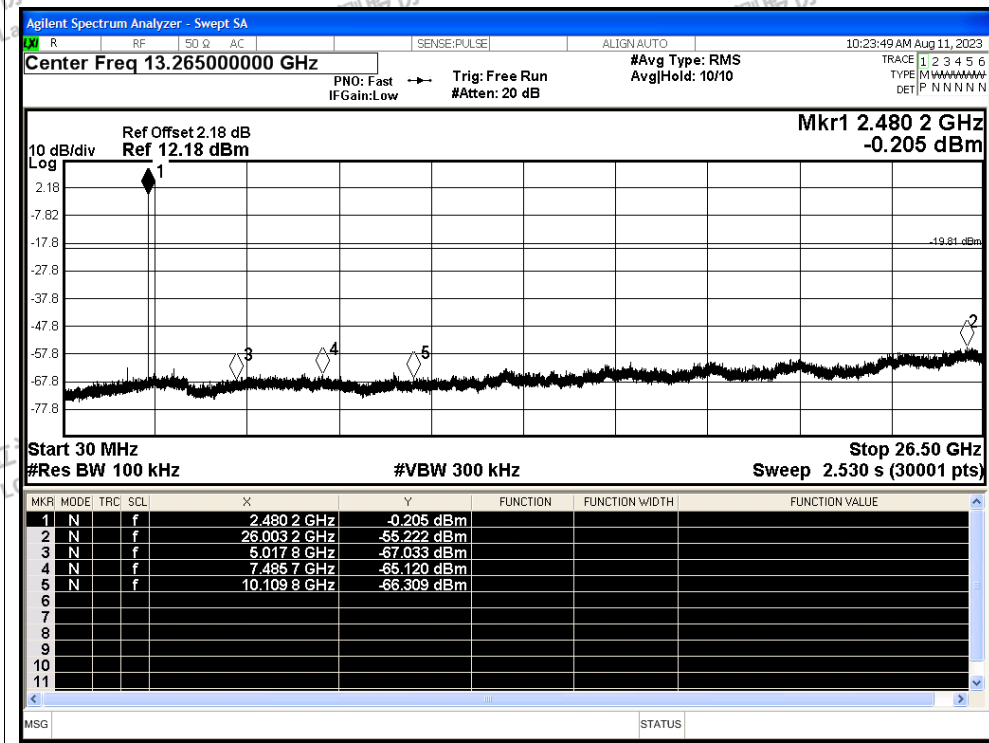




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

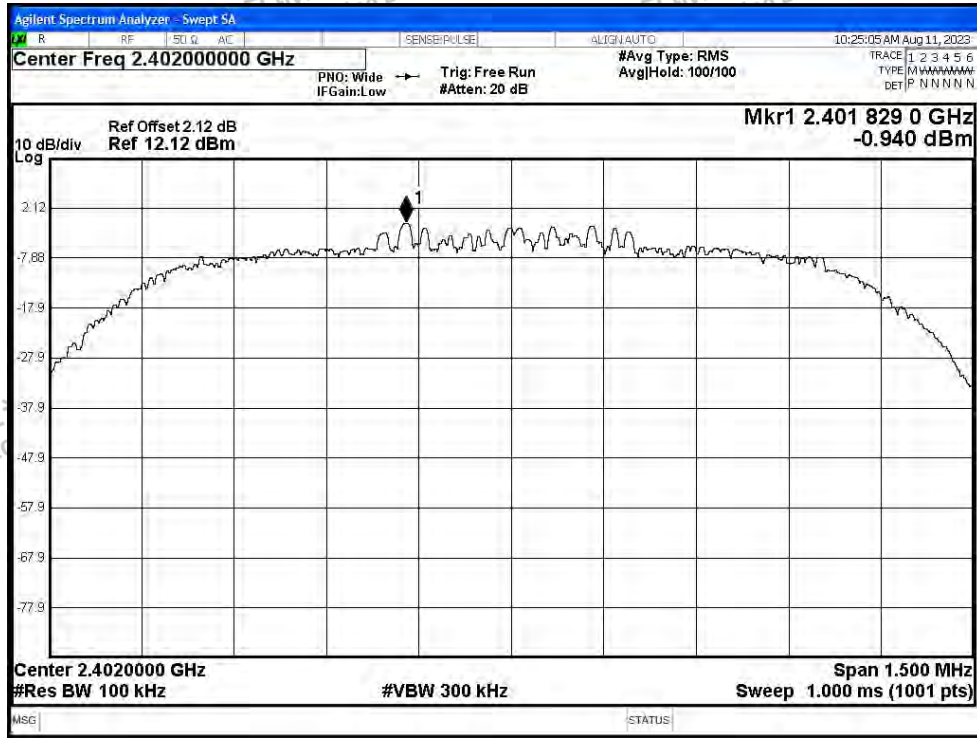


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

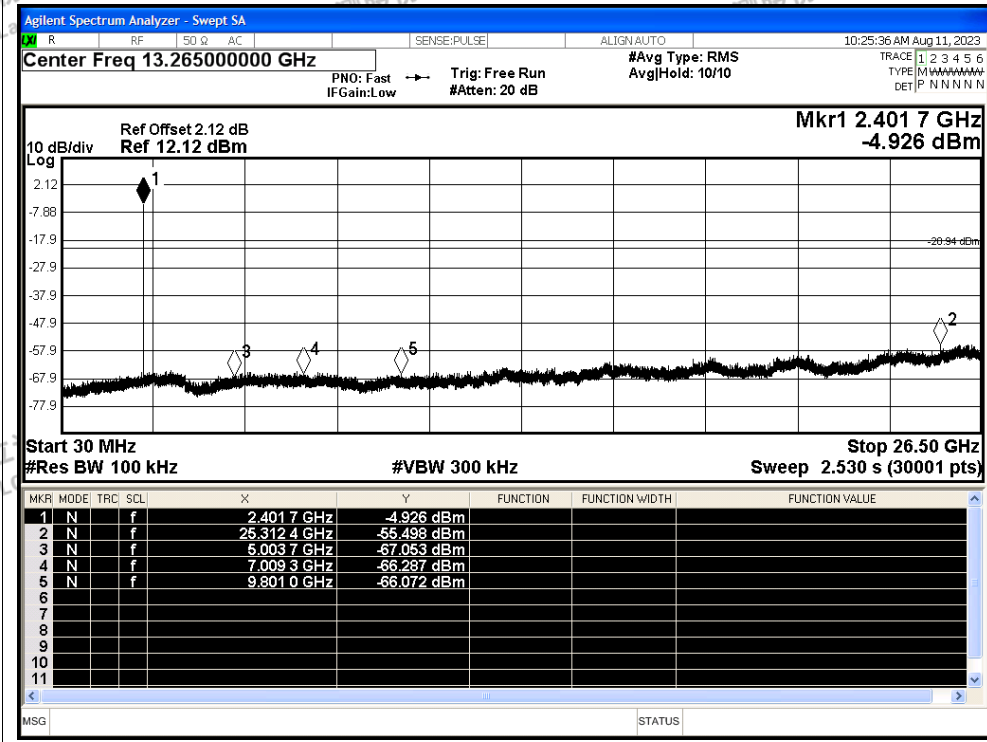




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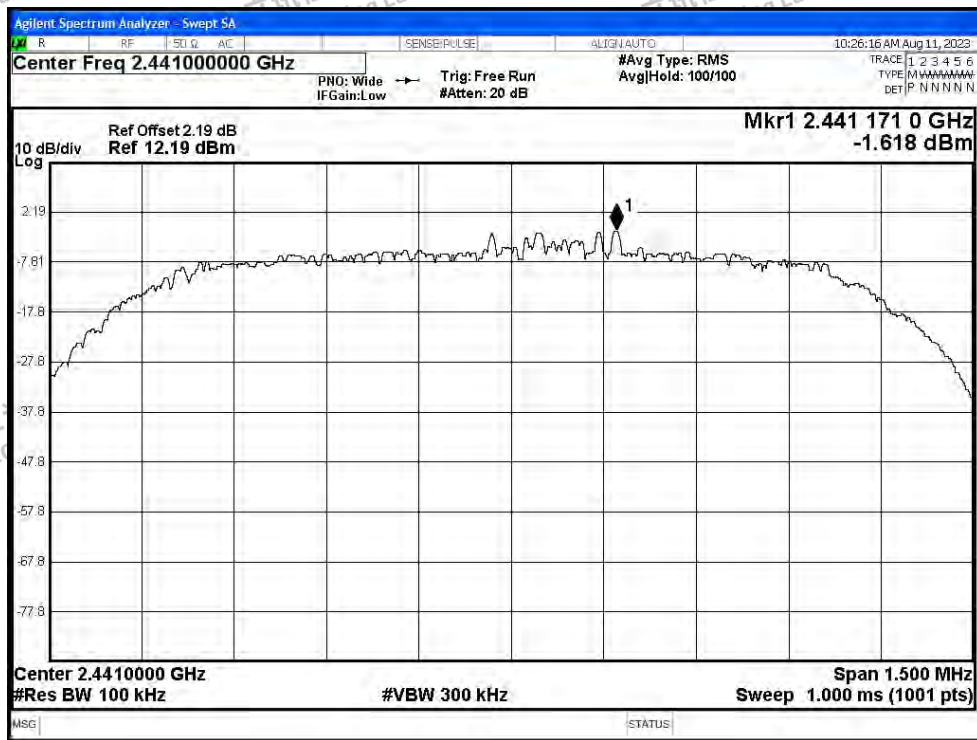


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

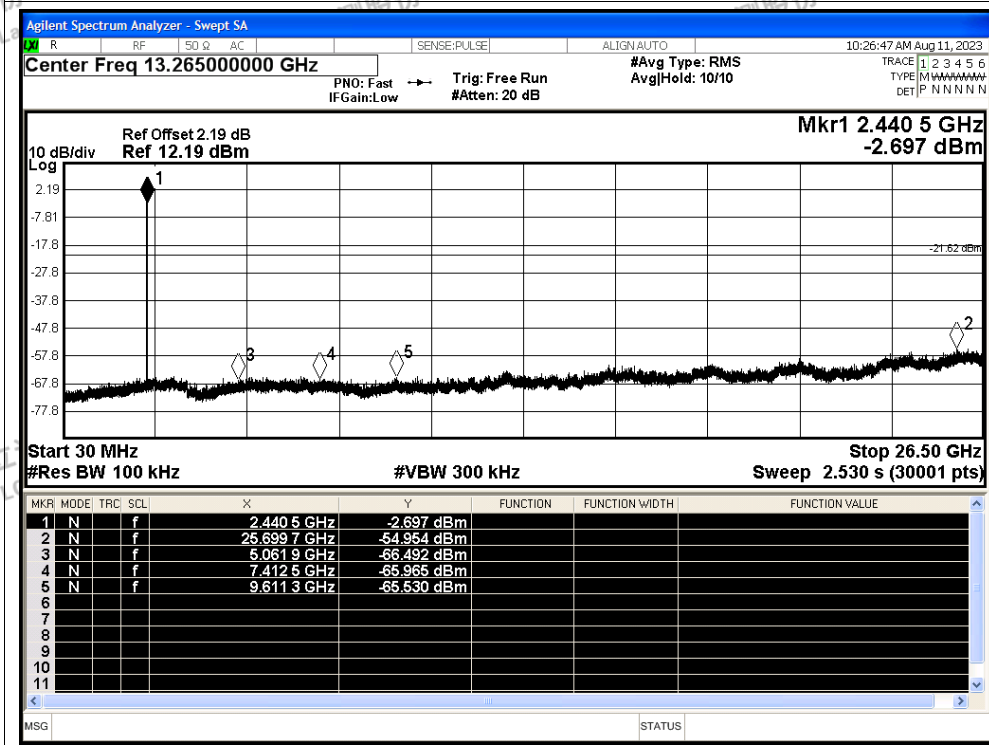




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

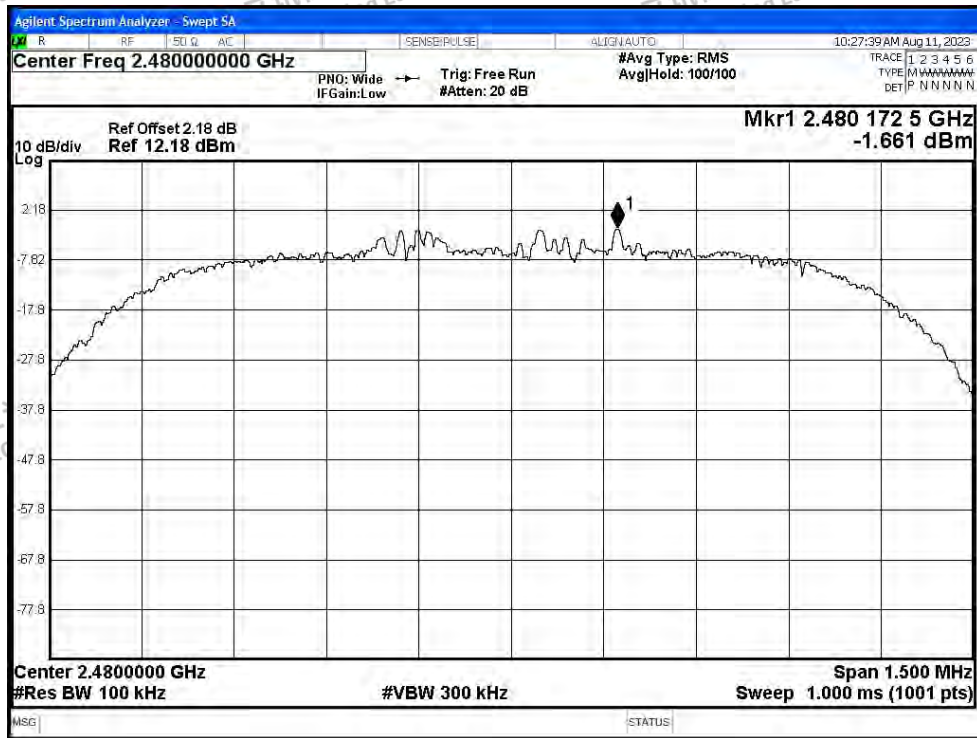


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

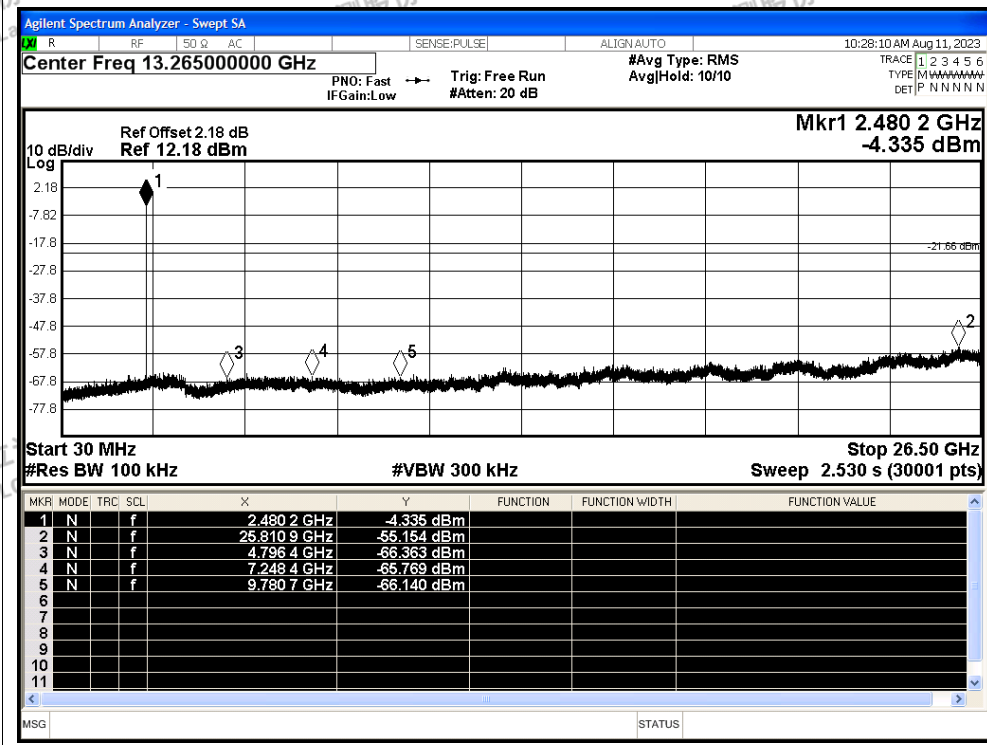




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



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	-51.71	2	45.55	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.06	2	39.2	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2361.36	-47.51	2	49.75	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.496	-57.48	2	39.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.94	2	46.32	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.61	2	39.65	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.34	2	47.92	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.64	2	41.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.232	-46.79	2	50.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.64	2	41.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.12	2	47.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.23	2	40.03	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.32	2	45.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.04	2	39.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2323.44	-47.13	2	50.13	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.464	-57.47	2	39.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.72	2	47.54	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.67	2	39.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.97	2	46.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.72	2	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2487.328	-46.19	2	51.07	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.72	2	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.91	2	48.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass

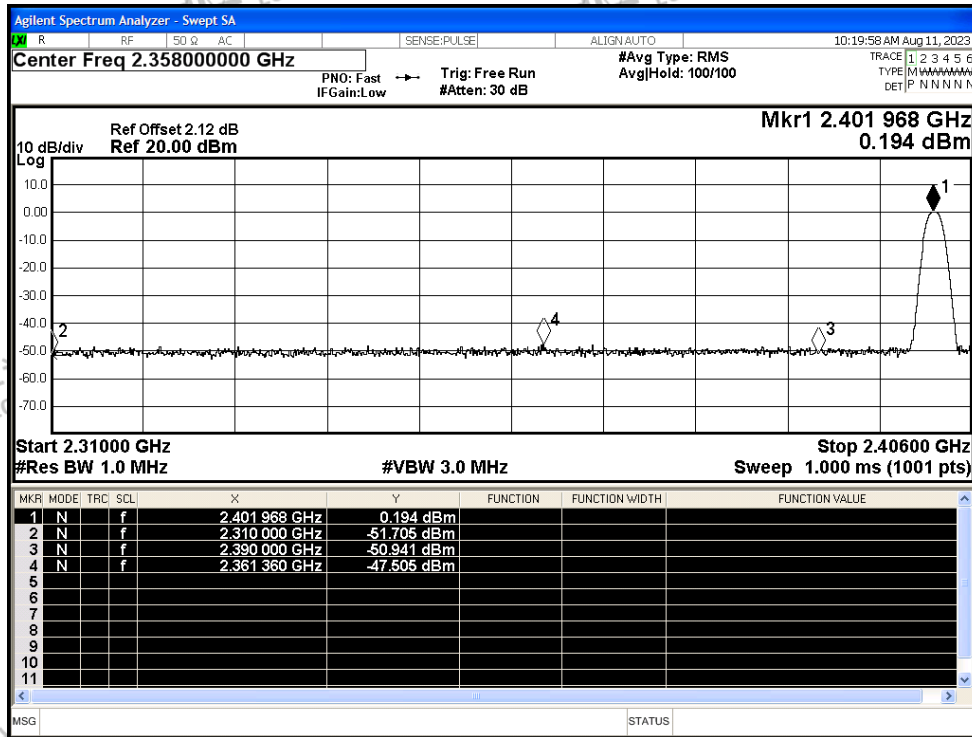


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 Scan code to check authenticity

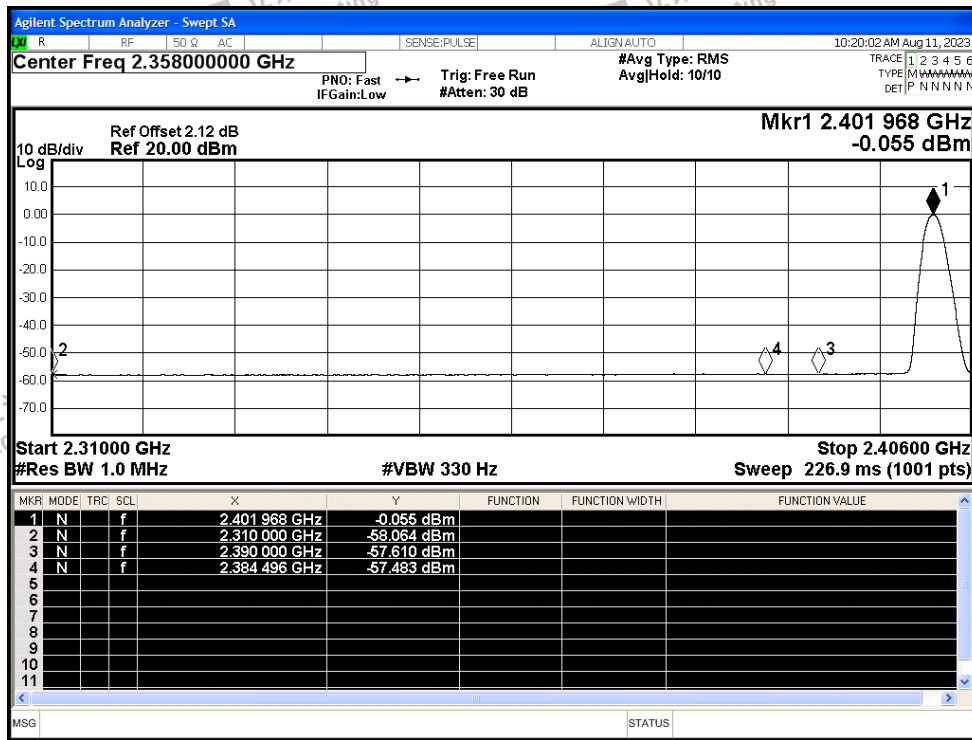


Test Graphs

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

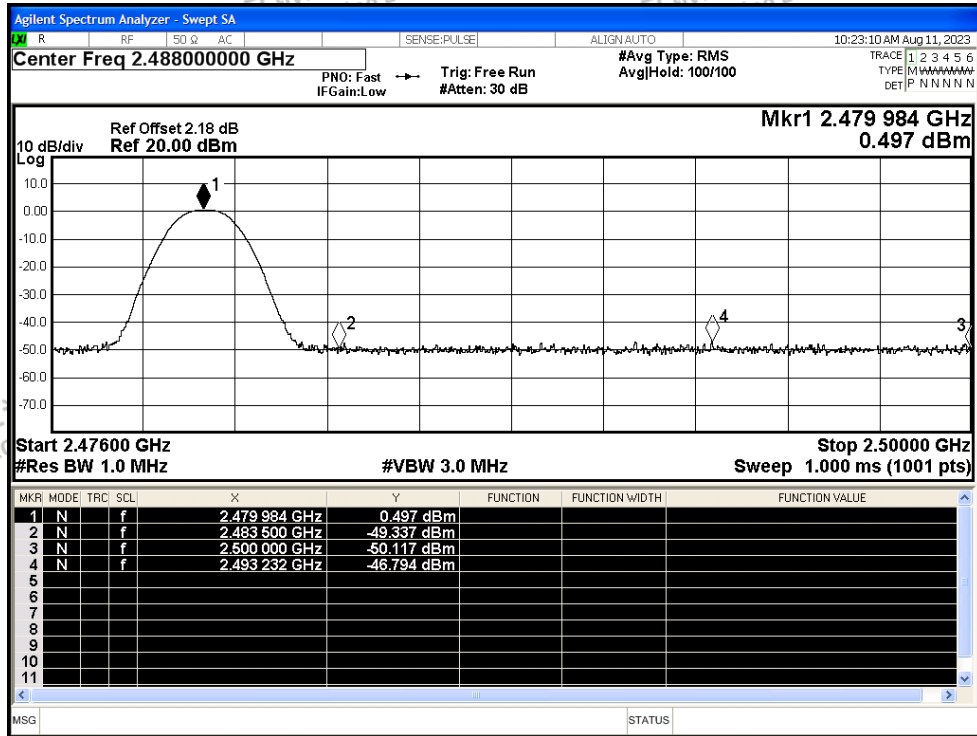


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

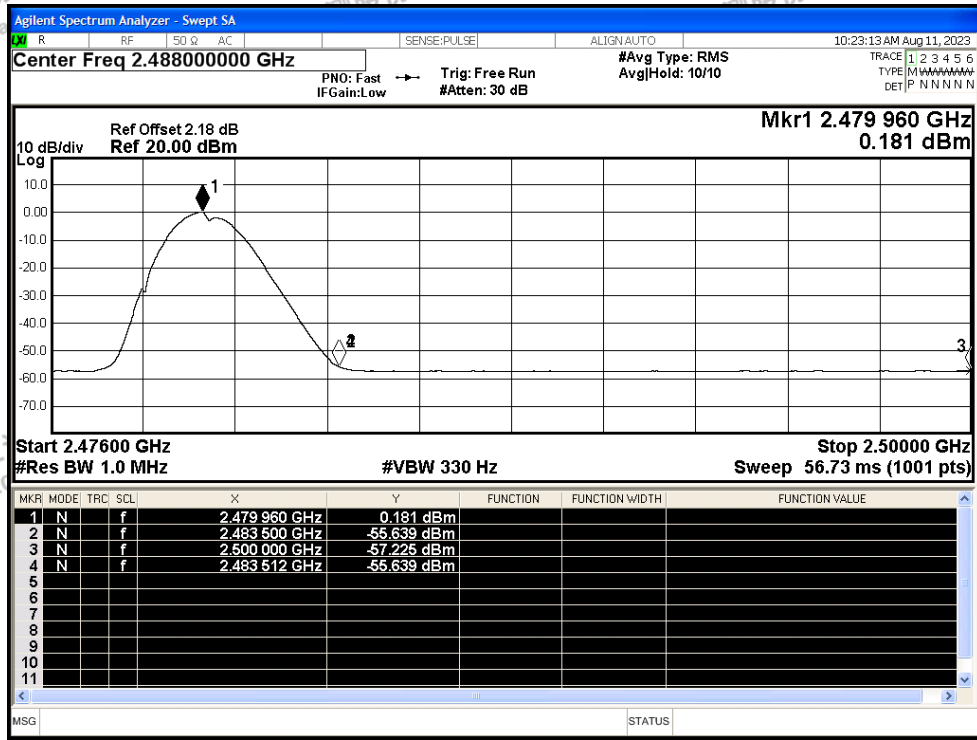




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

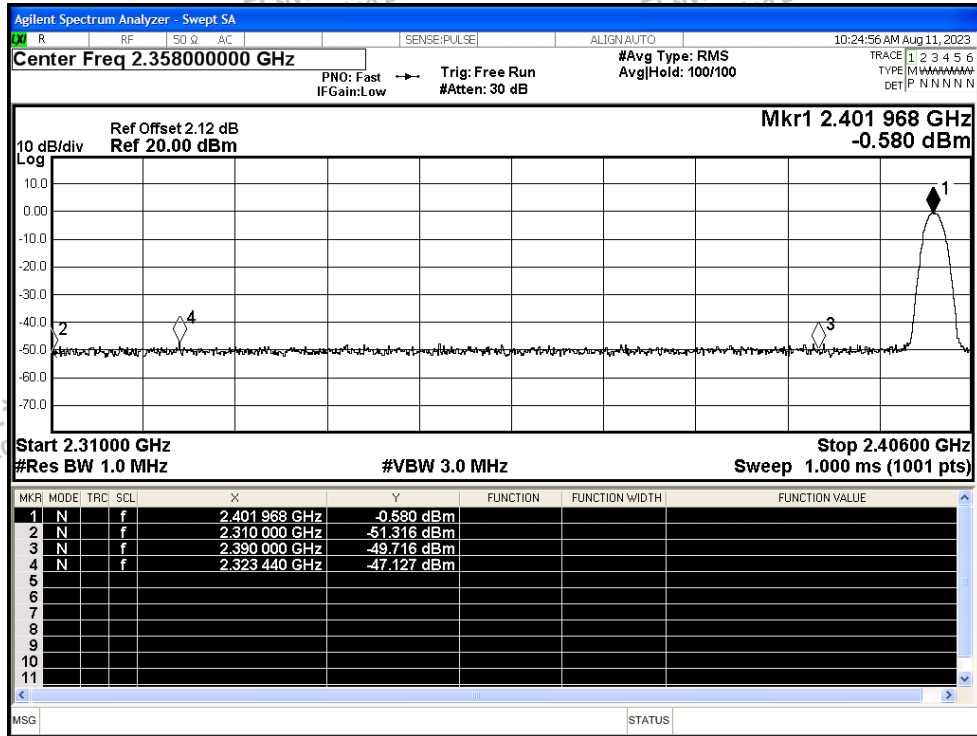


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

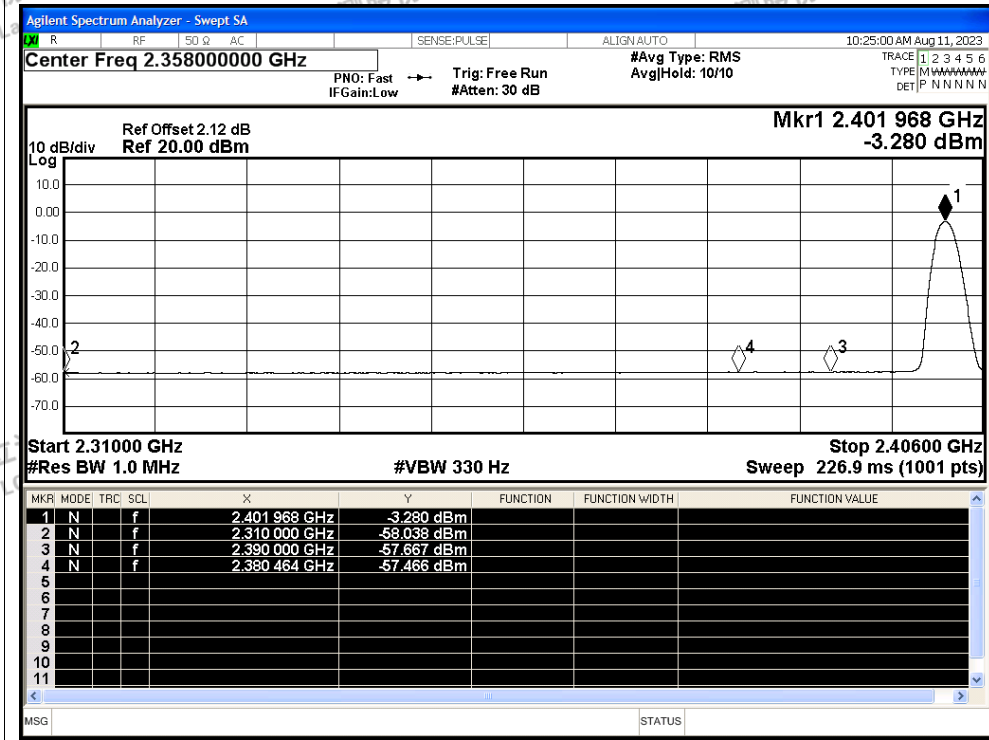




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

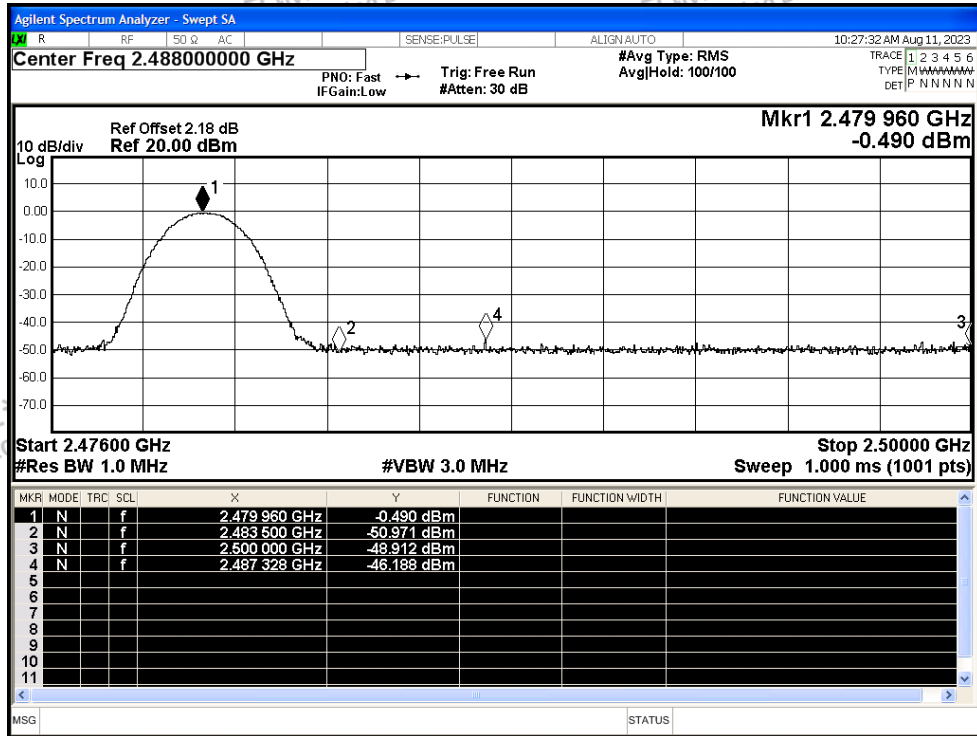


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

