



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: PSPK100

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
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	1.034	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.028	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.03	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.325	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.327	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.31	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.277	N/A	Pass

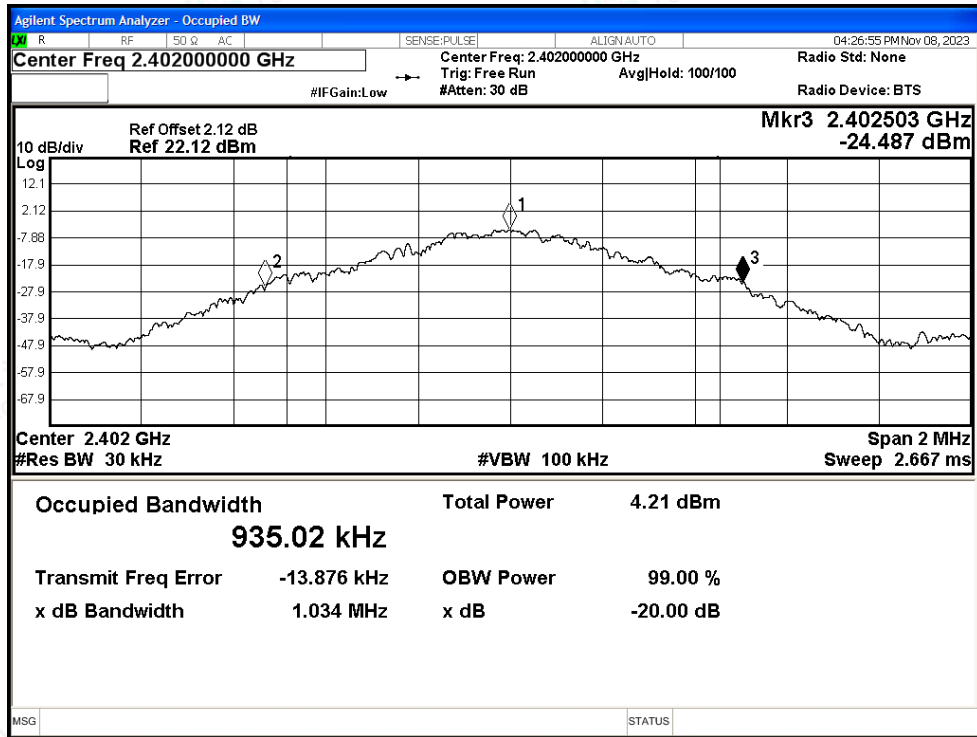


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Scan code to check authenticity

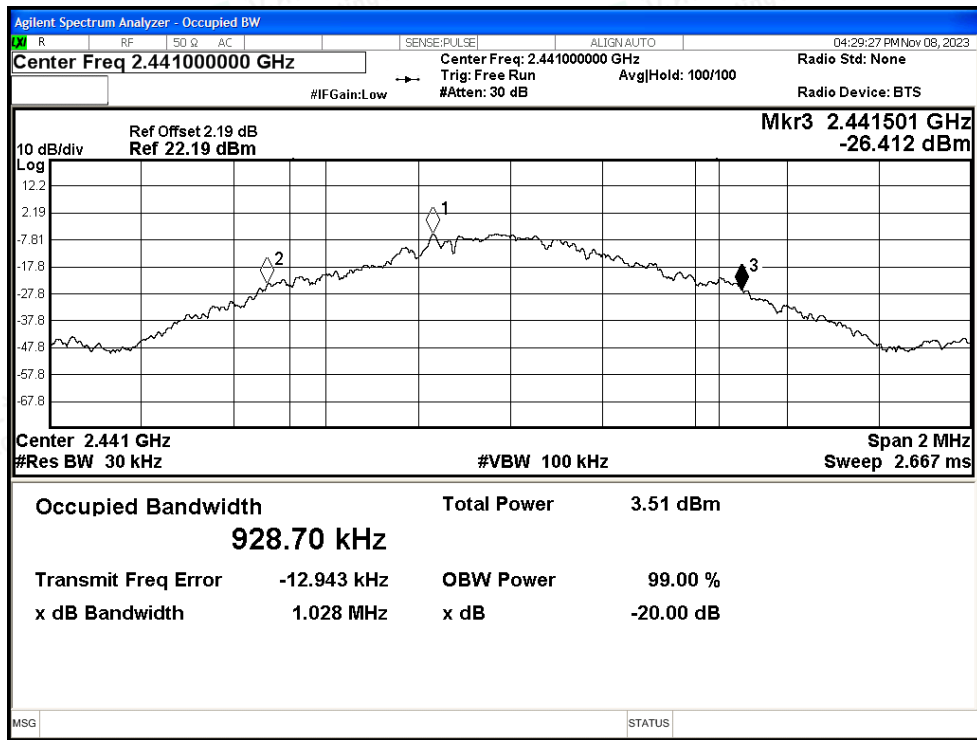


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

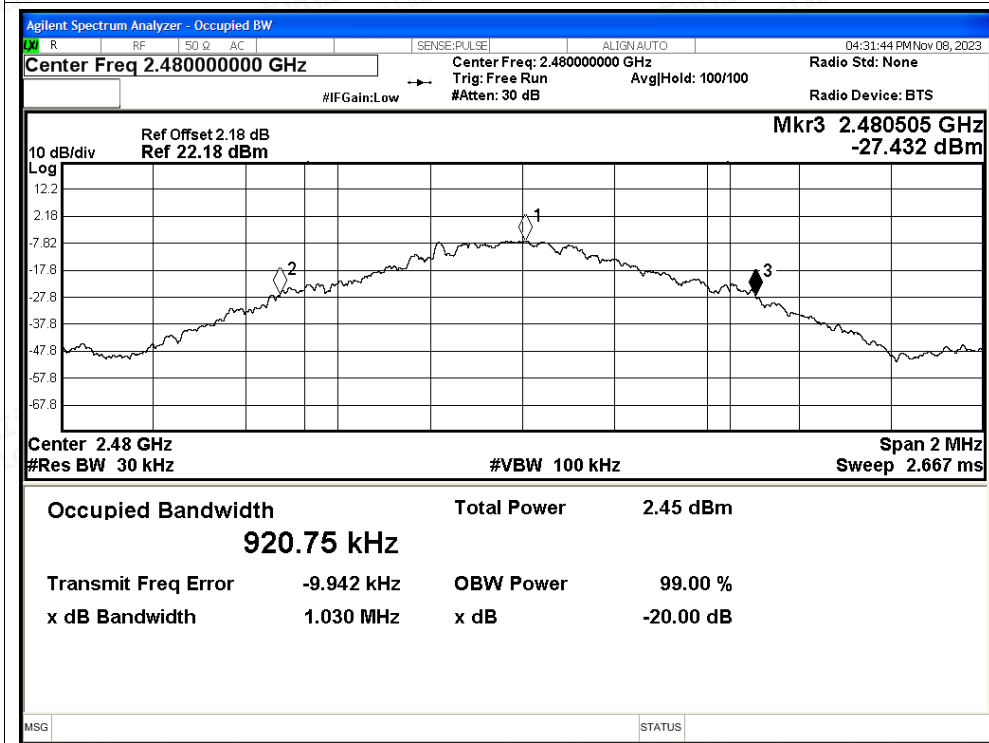


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

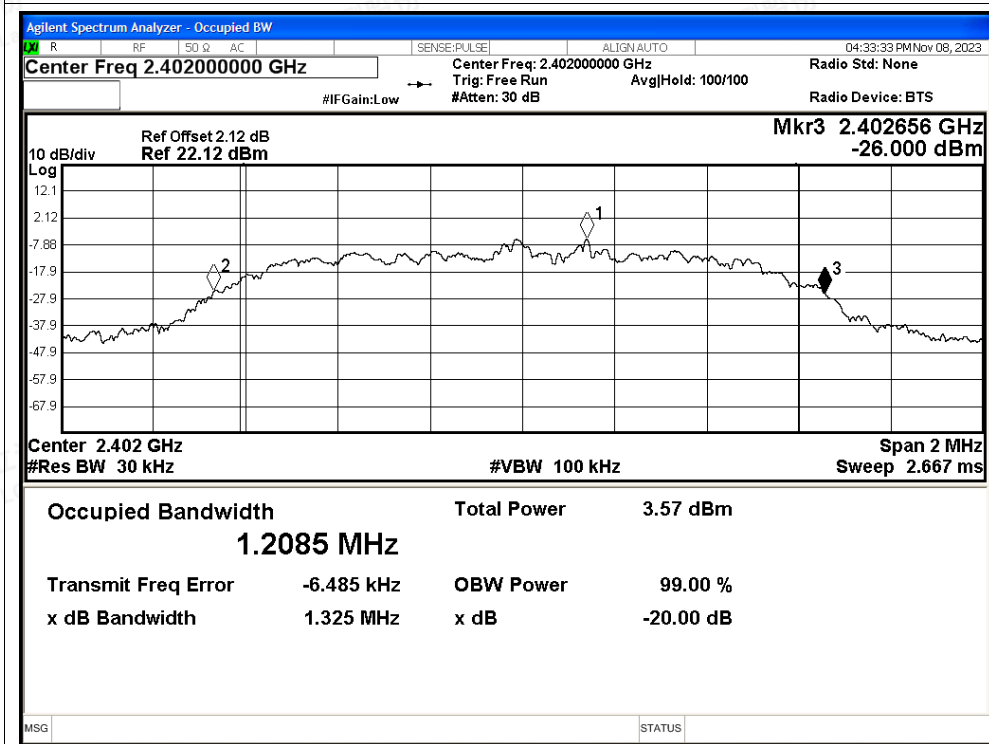




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

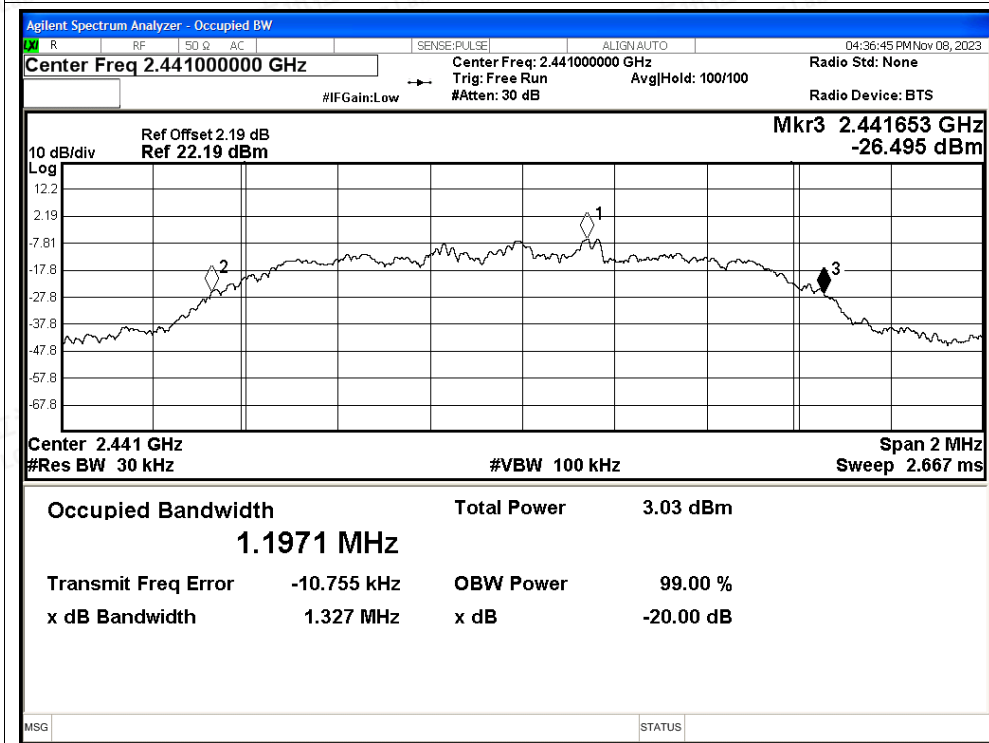


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

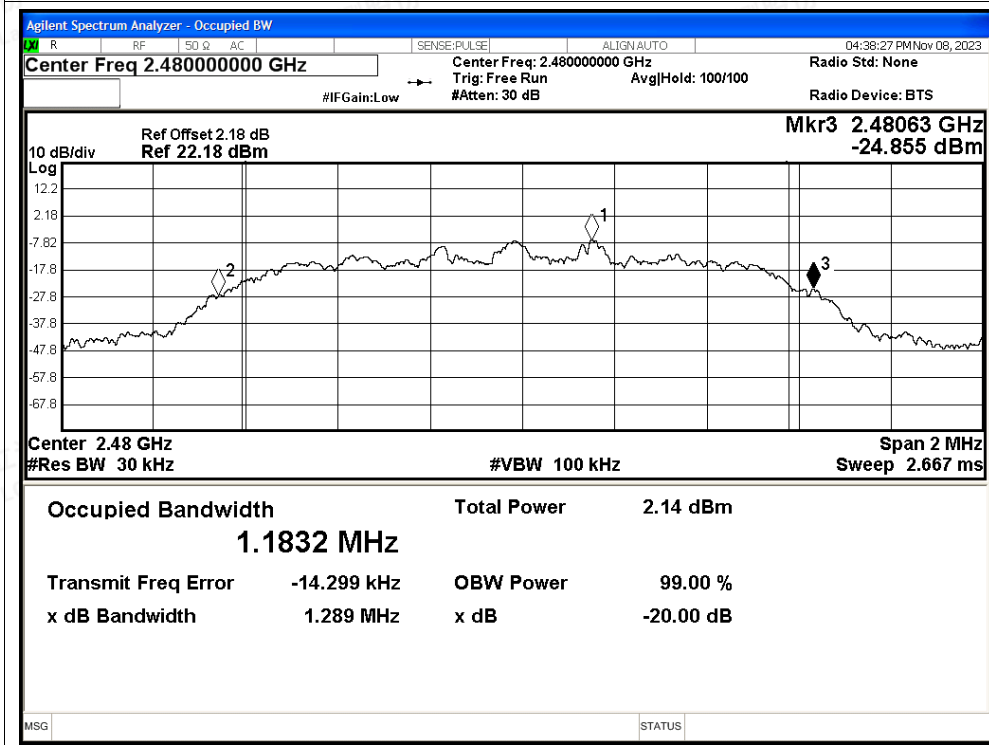




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

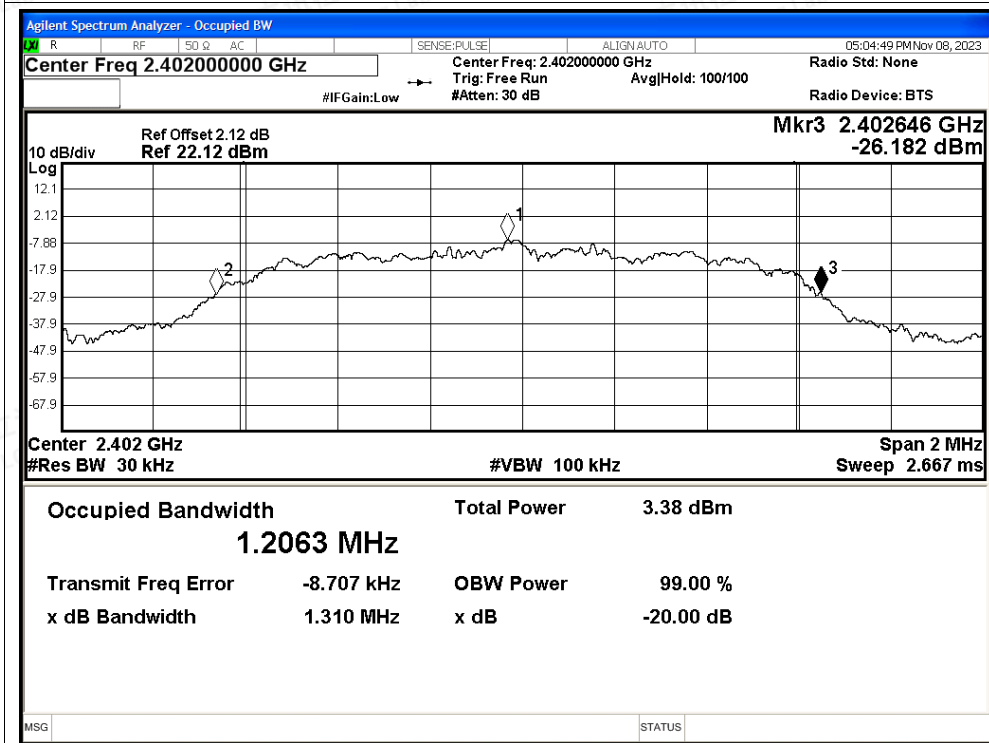


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

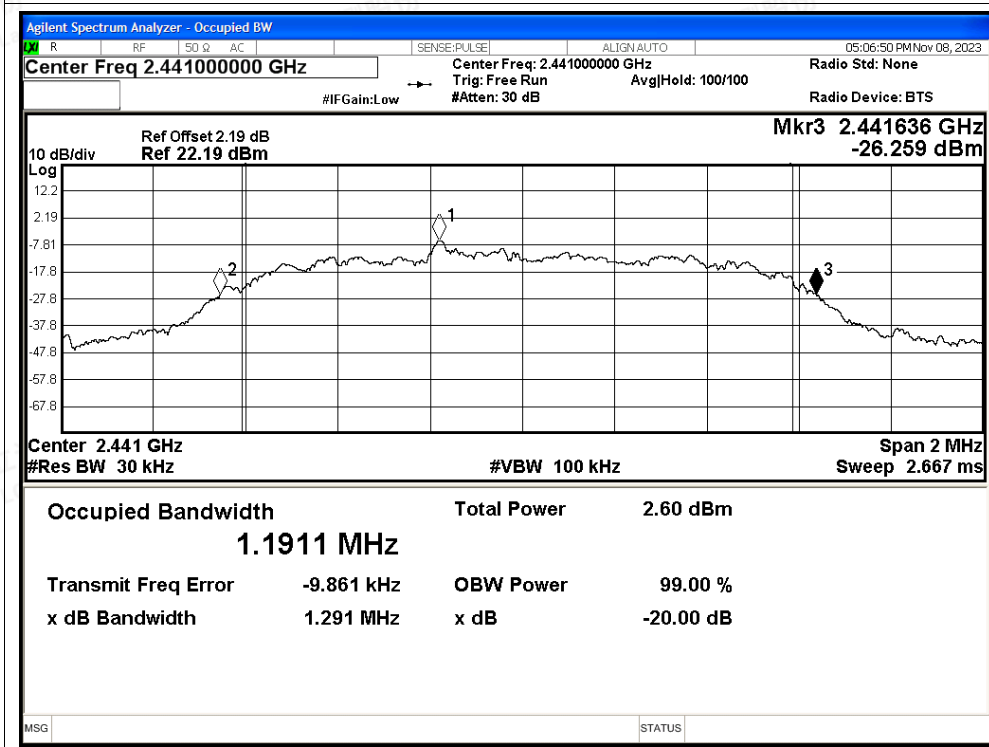




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

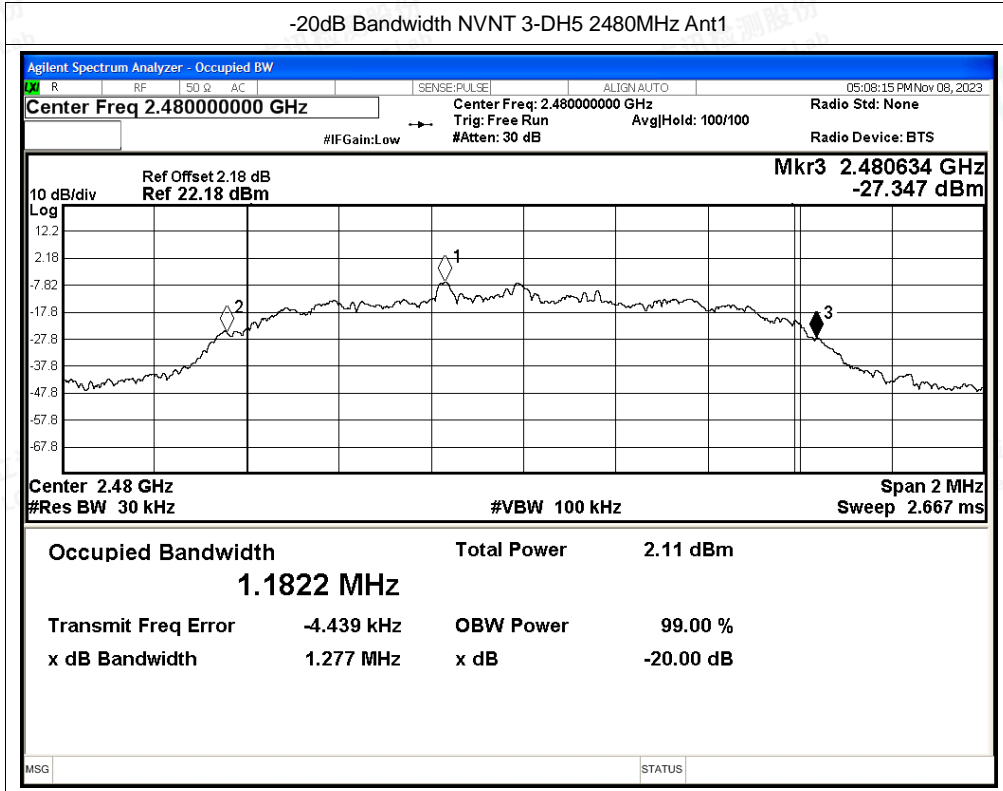


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

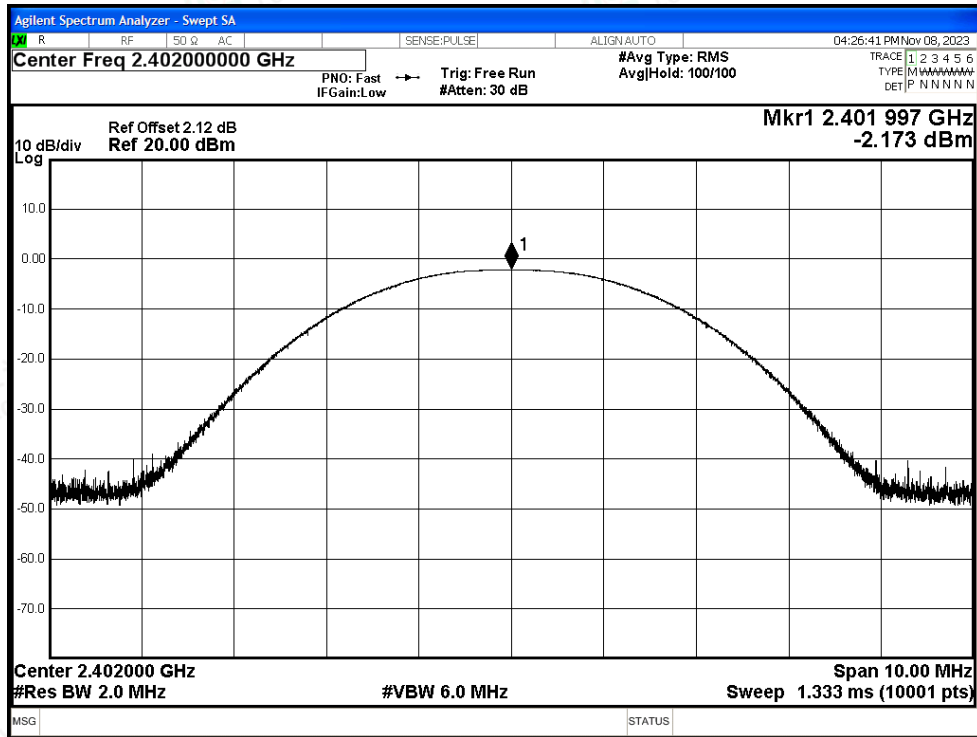
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.17	21	Pass
NVNT	1-DH5	2441	Ant1	-2.92	21	Pass
NVNT	1-DH5	2480	Ant1	-3.94	21	Pass
NVNT	2-DH5	2402	Ant1	-1.36	21	Pass
NVNT	2-DH5	2441	Ant1	-2.12	21	Pass
NVNT	2-DH5	2480	Ant1	-3.20	21	Pass
NVNT	3-DH5	2402	Ant1	-0.92	21	Pass
NVNT	3-DH5	2441	Ant1	-1.68	21	Pass
NVNT	3-DH5	2480	Ant1	-2.75	21	Pass



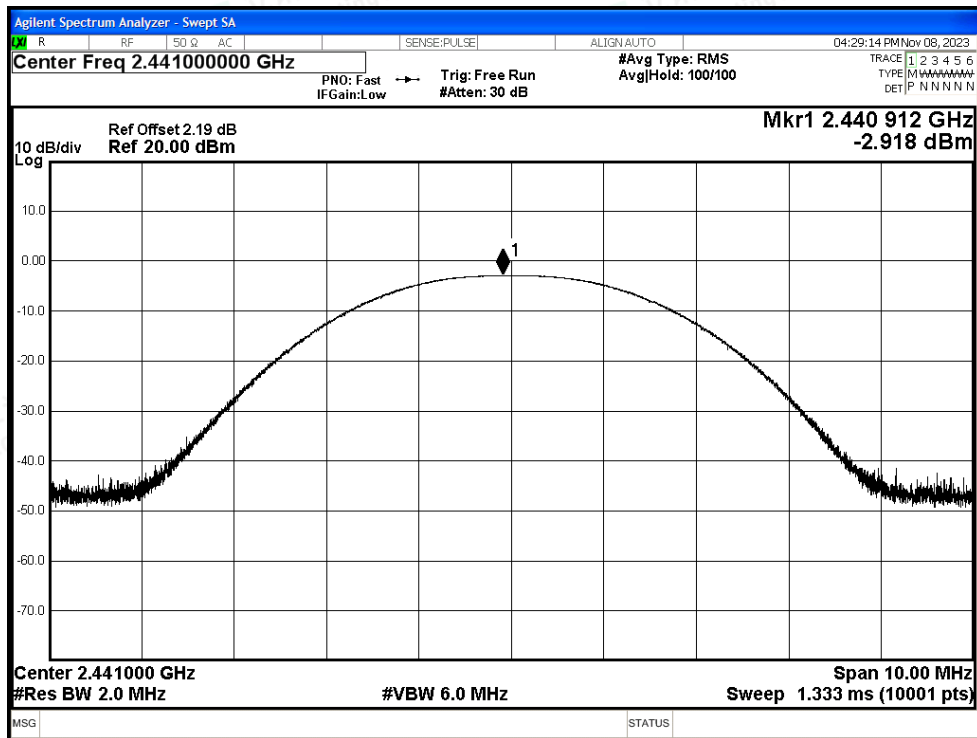


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

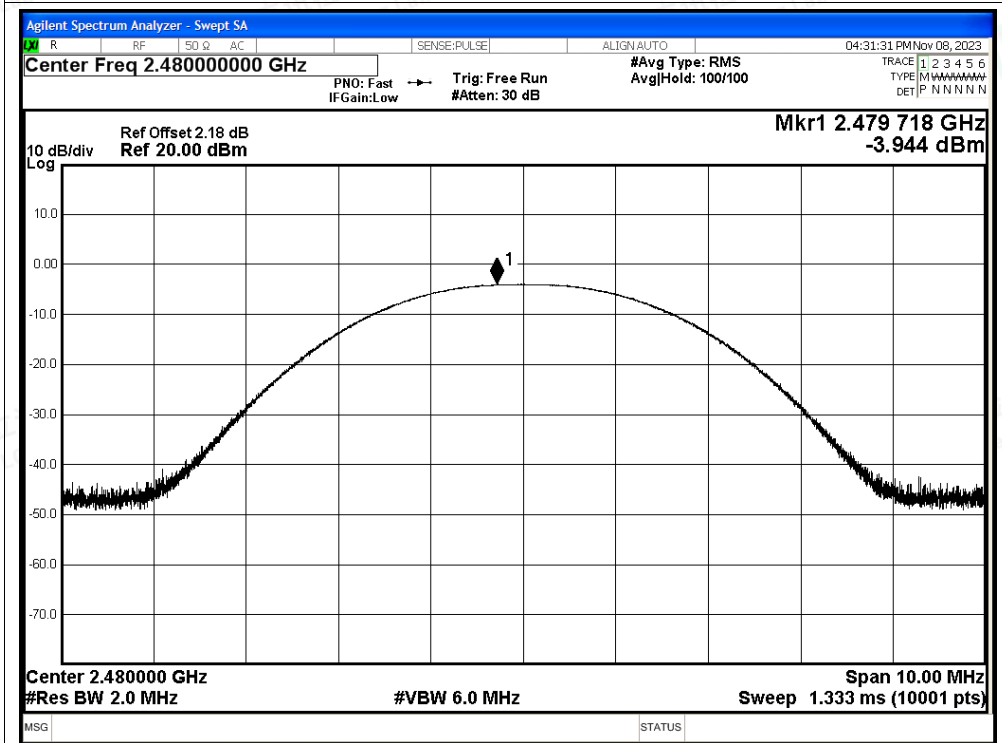


Power NVNT 1-DH5 2441MHz Ant1

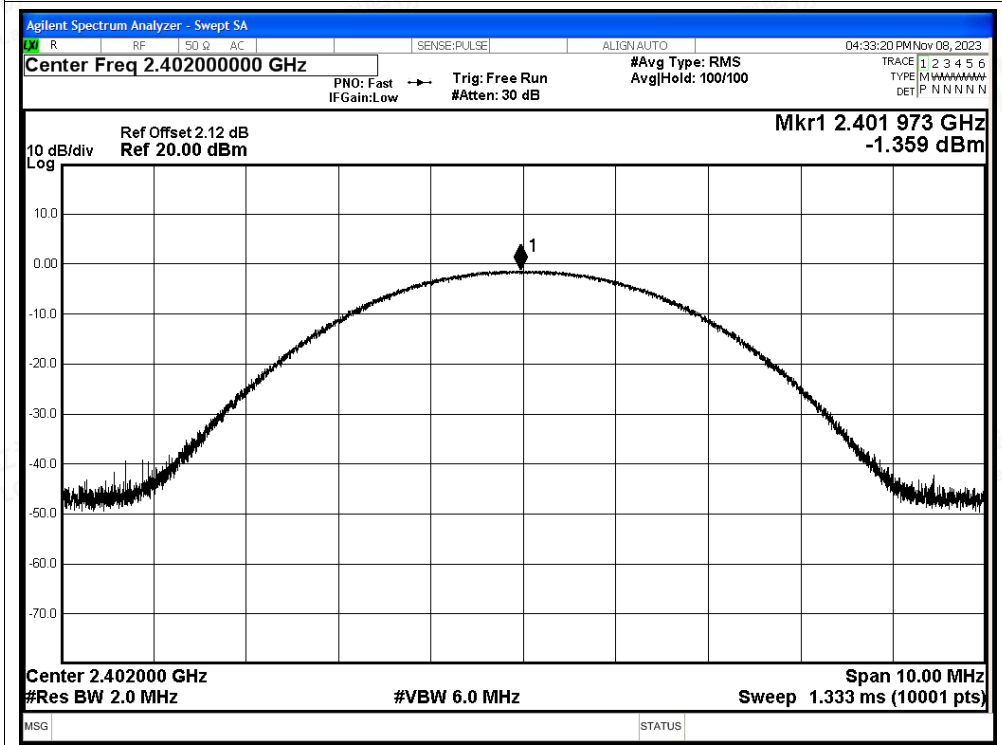


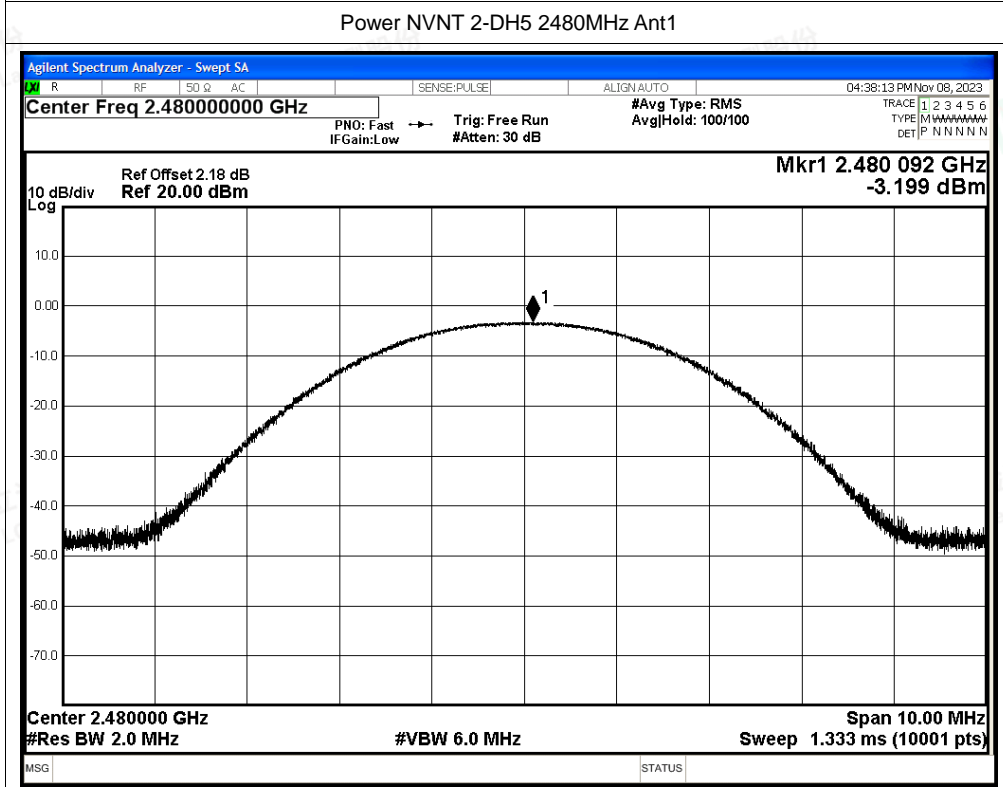
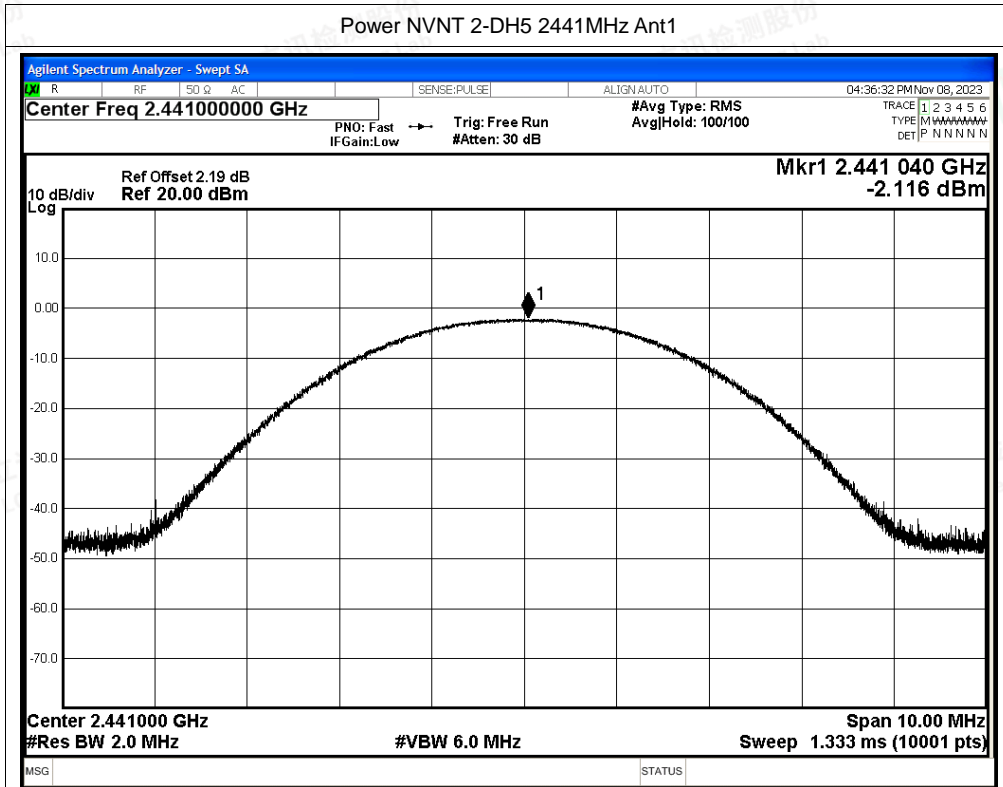


Power NVNT 1-DH5 2480MHz Ant1



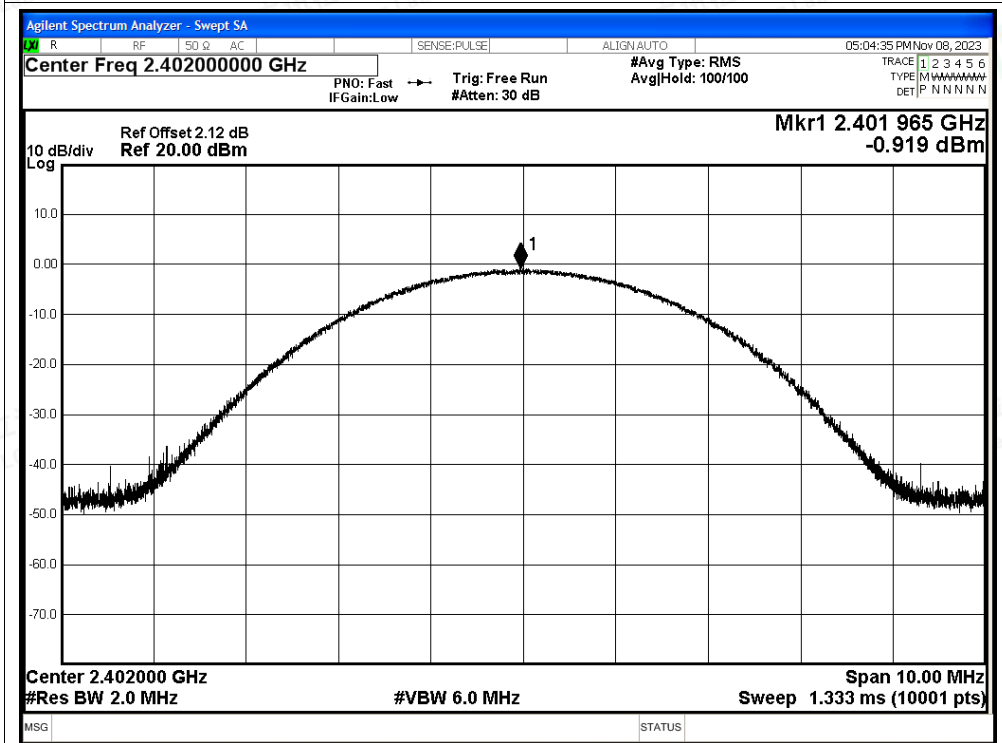
Power NVNT 2-DH5 2402MHz Ant1



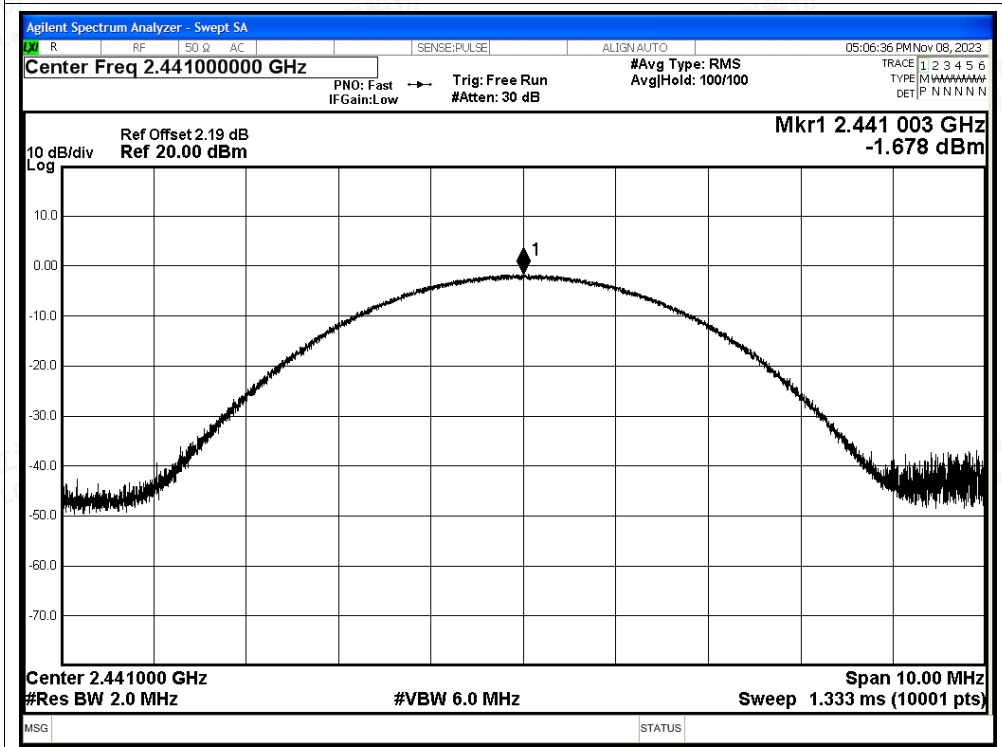


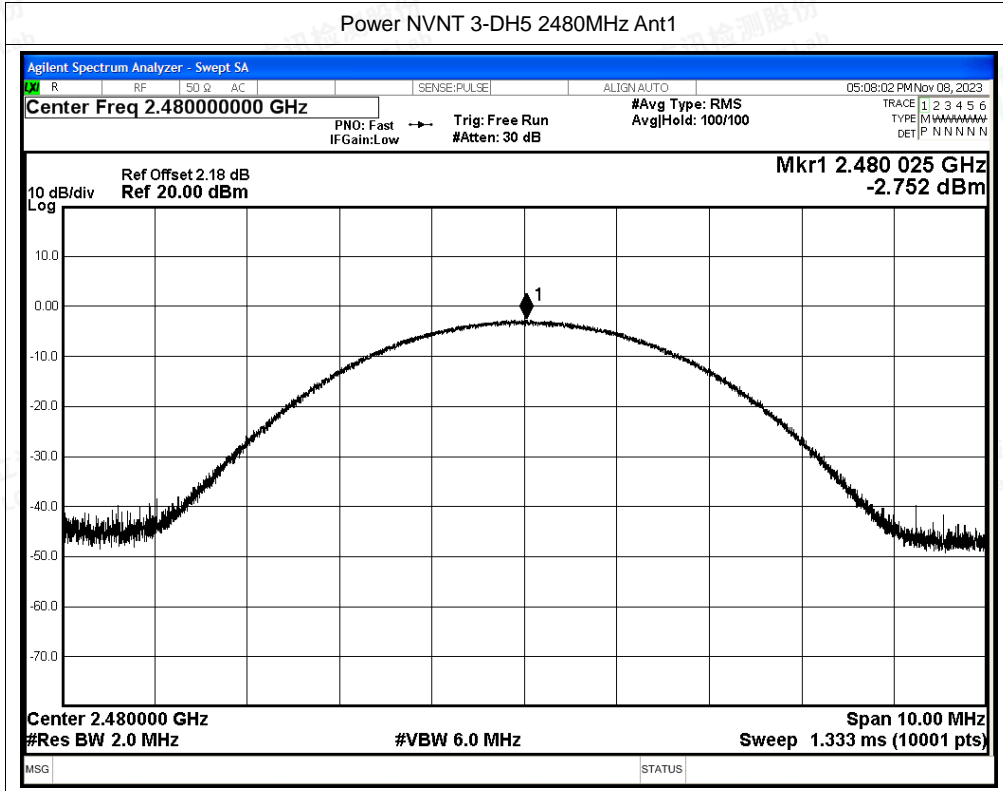


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.83	2402.824	0.994	0.689	Pass
NVNT	2-DH5	Ant1	2402.154	2403.148	0.994	0.885	Pass
NVNT	3-DH5	Ant1	2401.828	2402.984	1.156	0.873	Pass

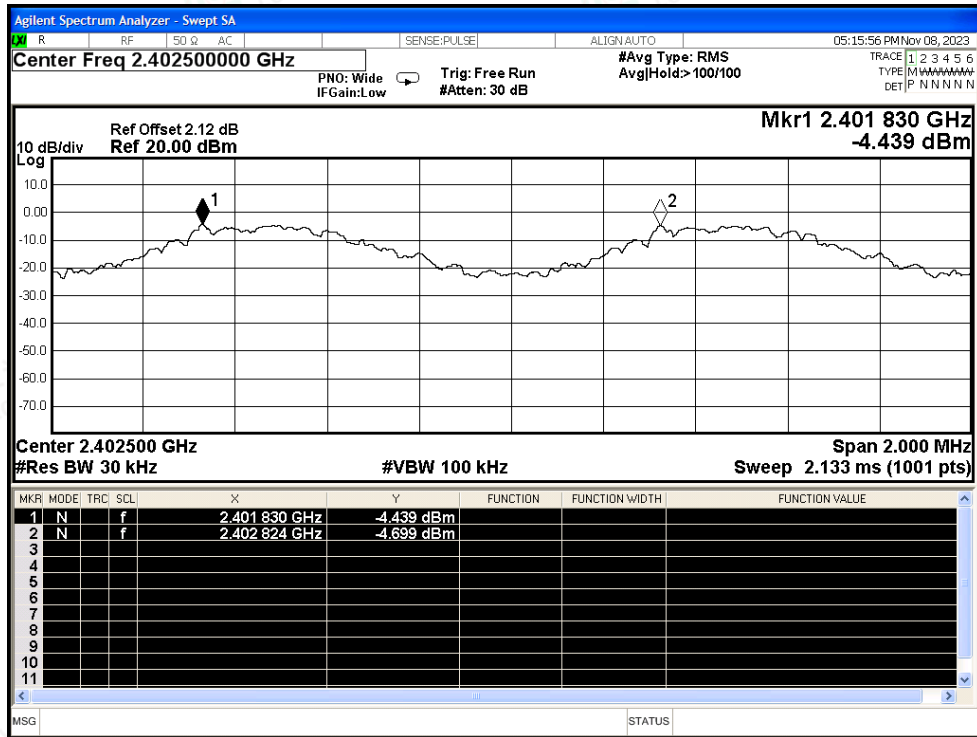


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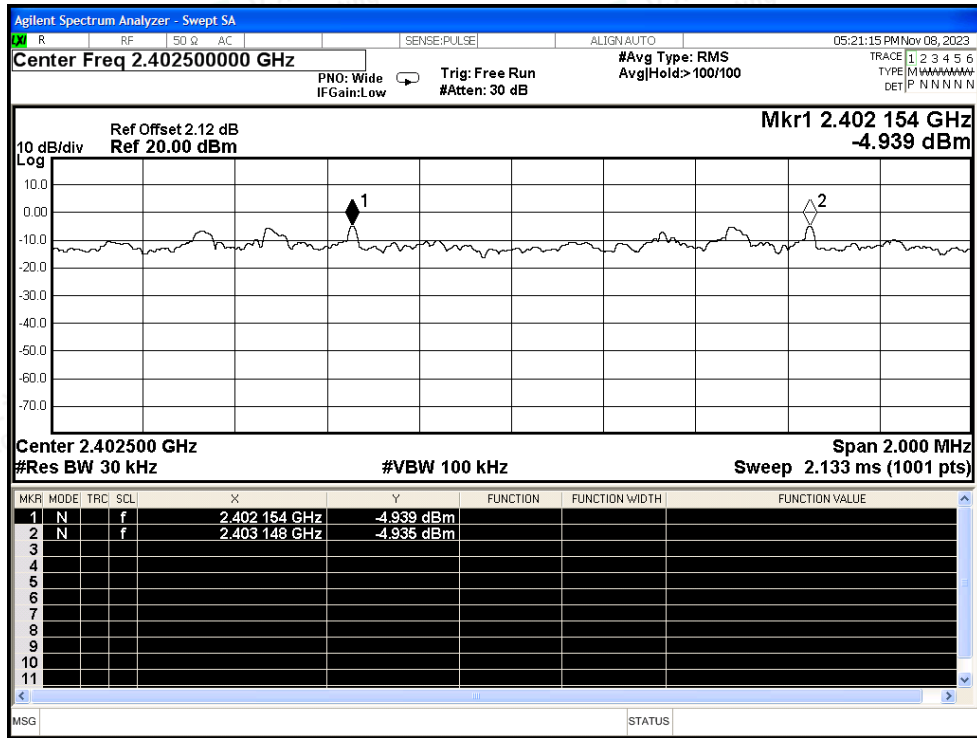


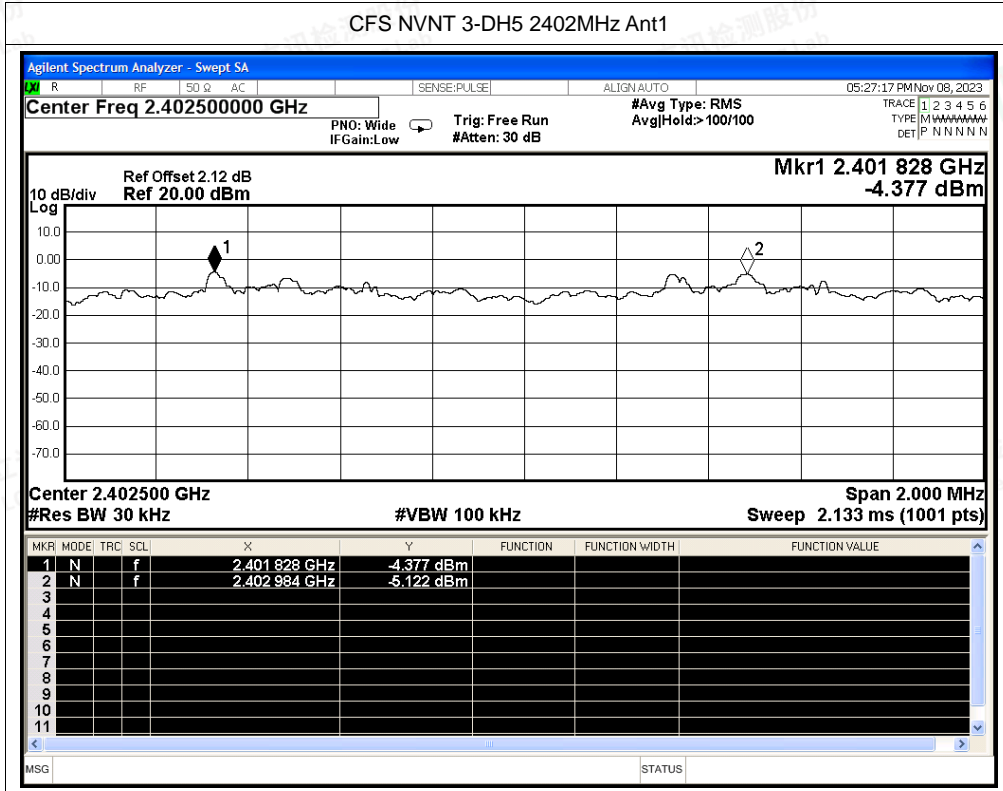
Test Graphs

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	2.88	302.4	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.883	331.545	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	277.248	96	31600	400	Pass

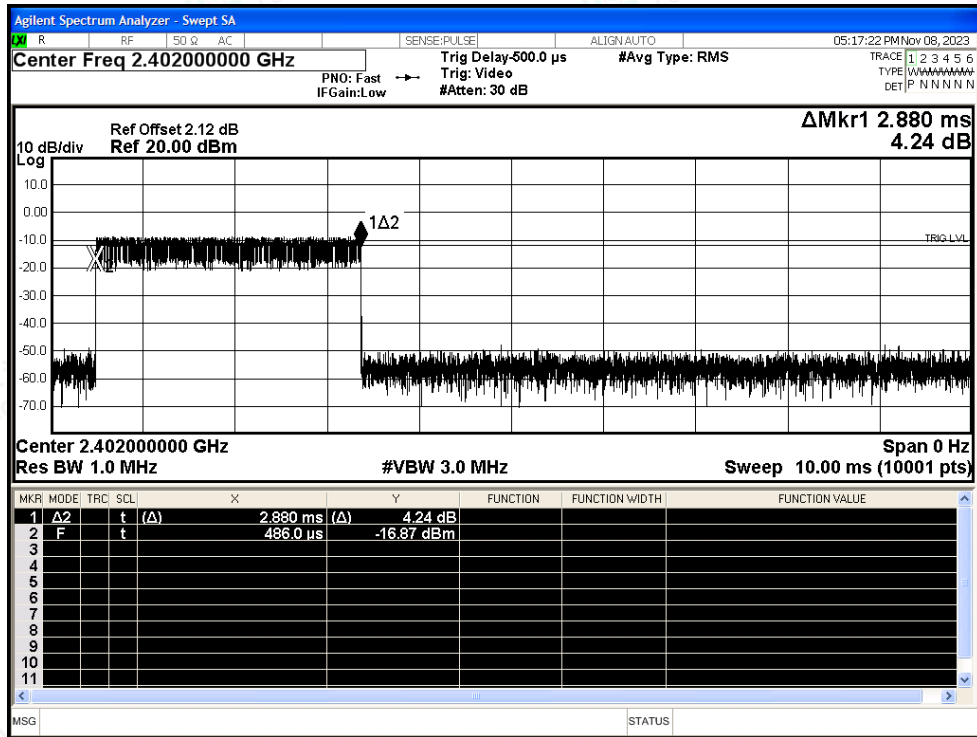


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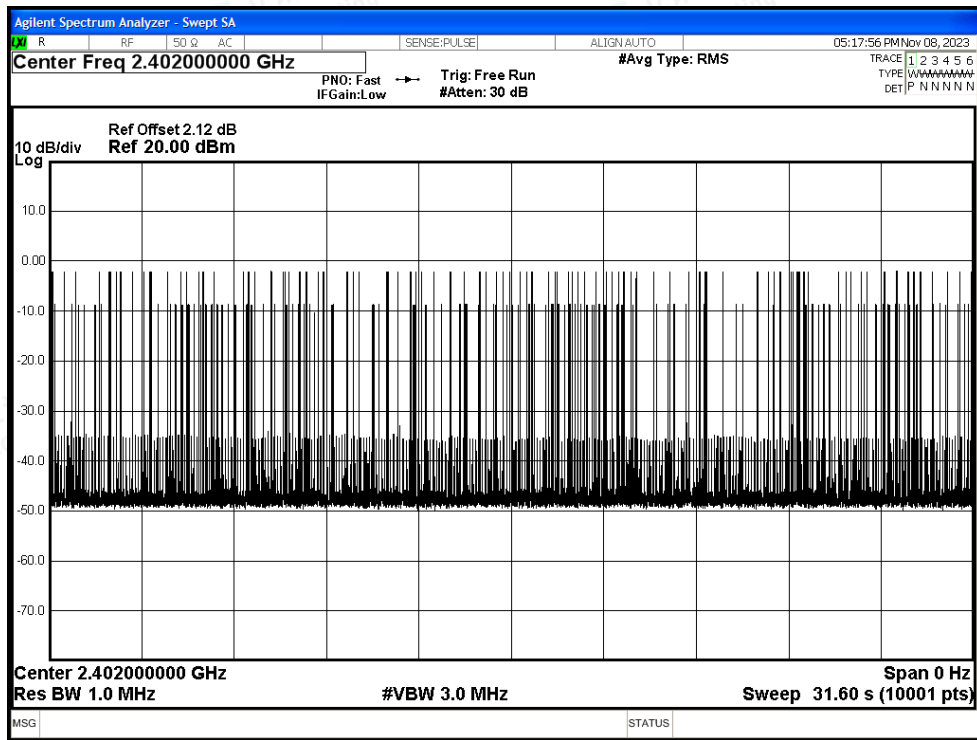


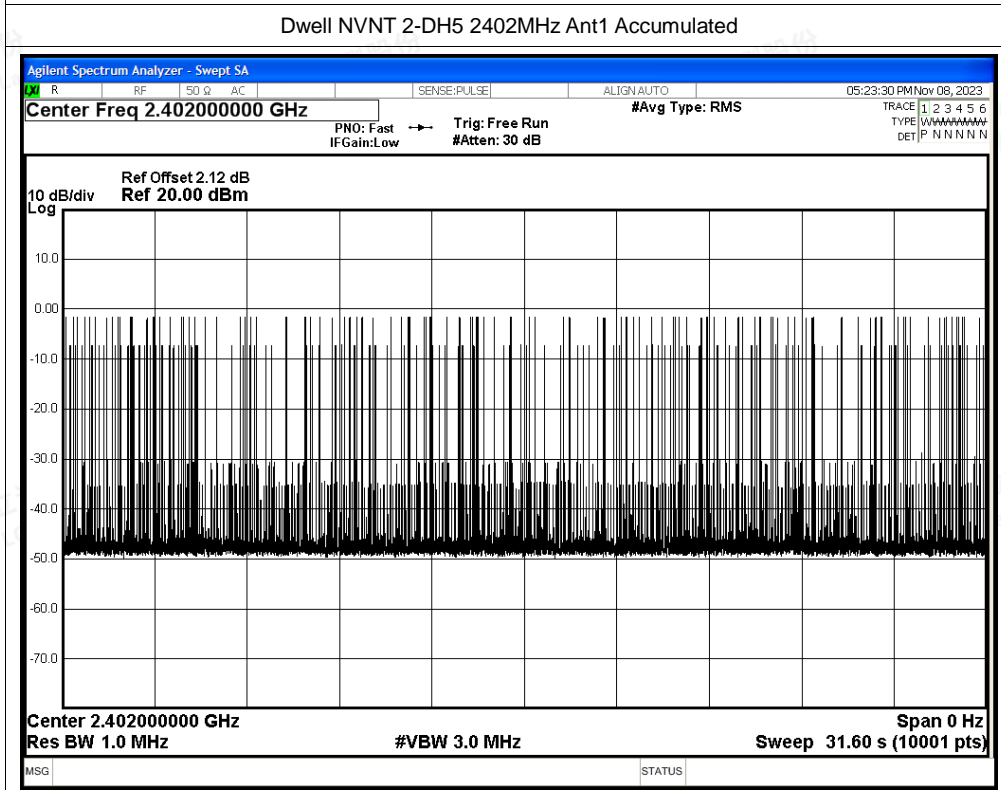
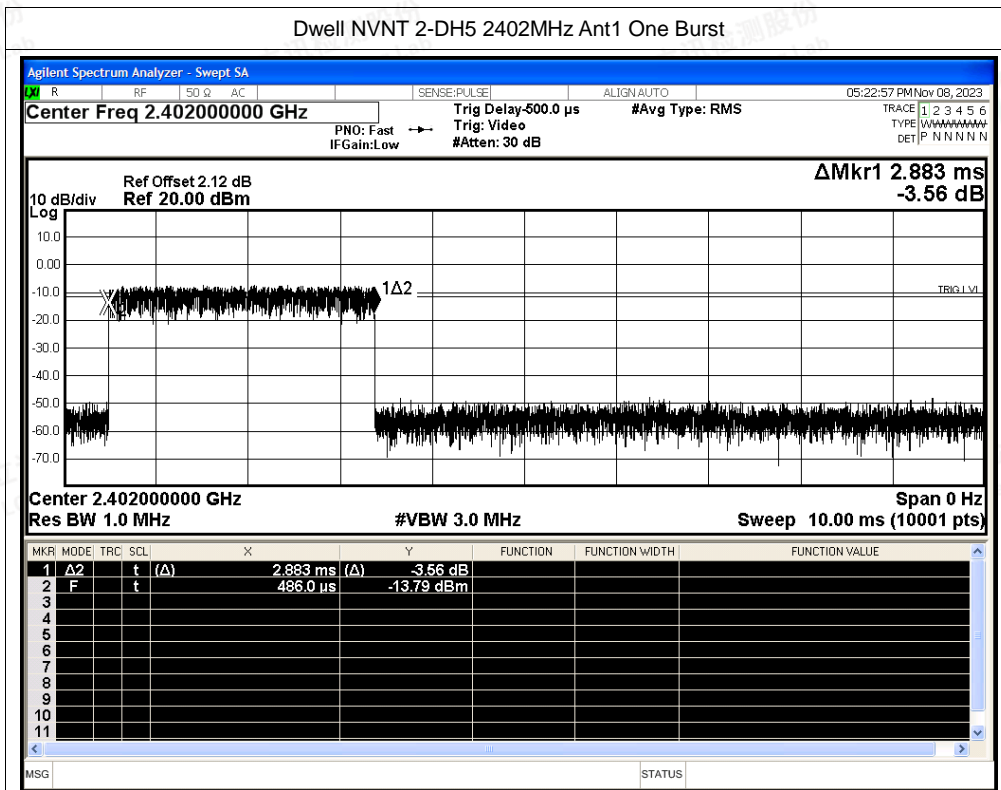
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



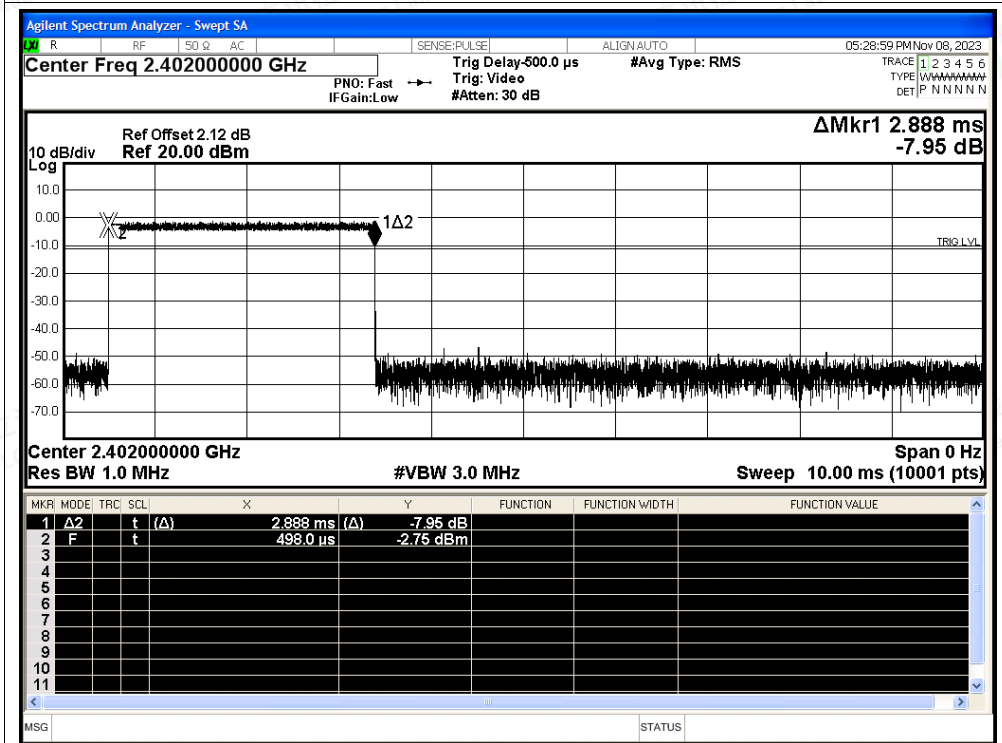
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



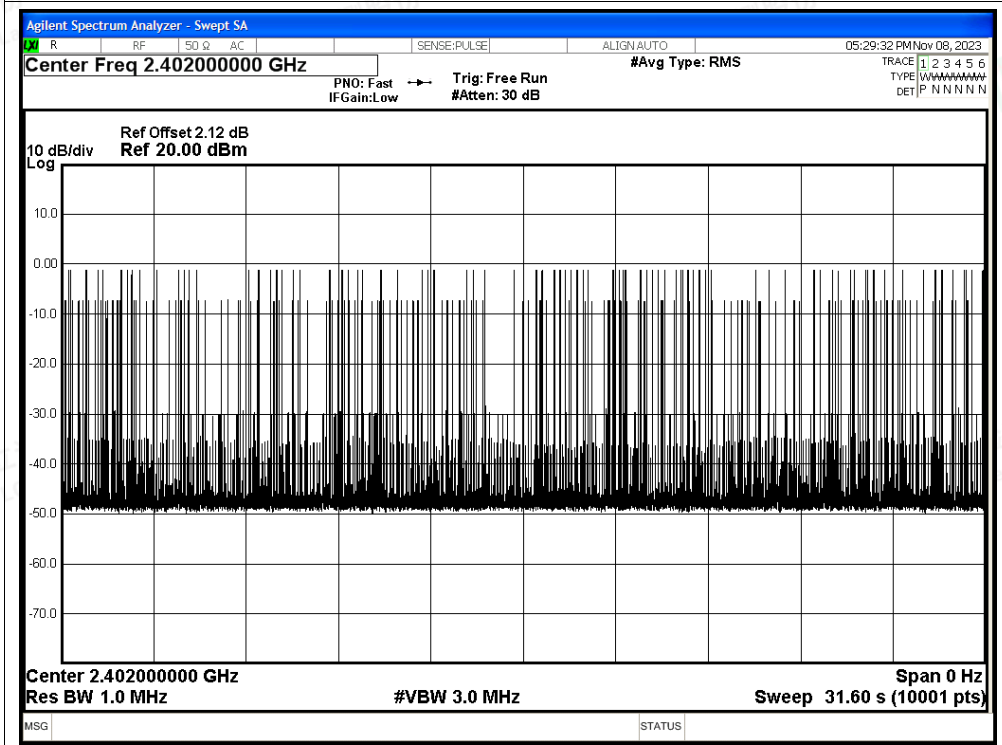




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

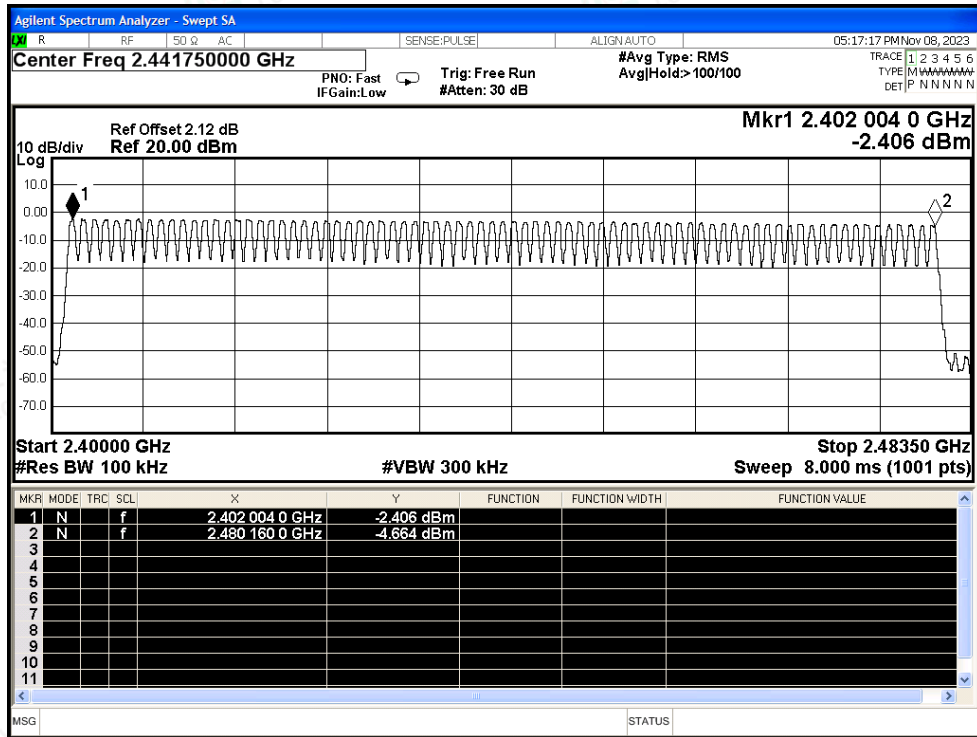


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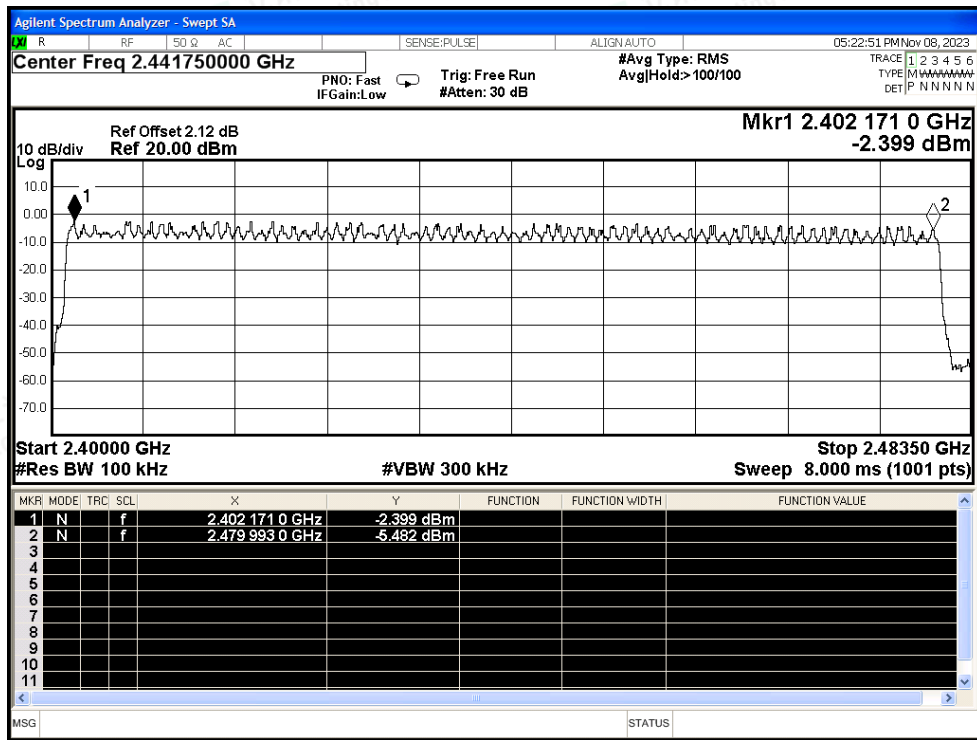


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

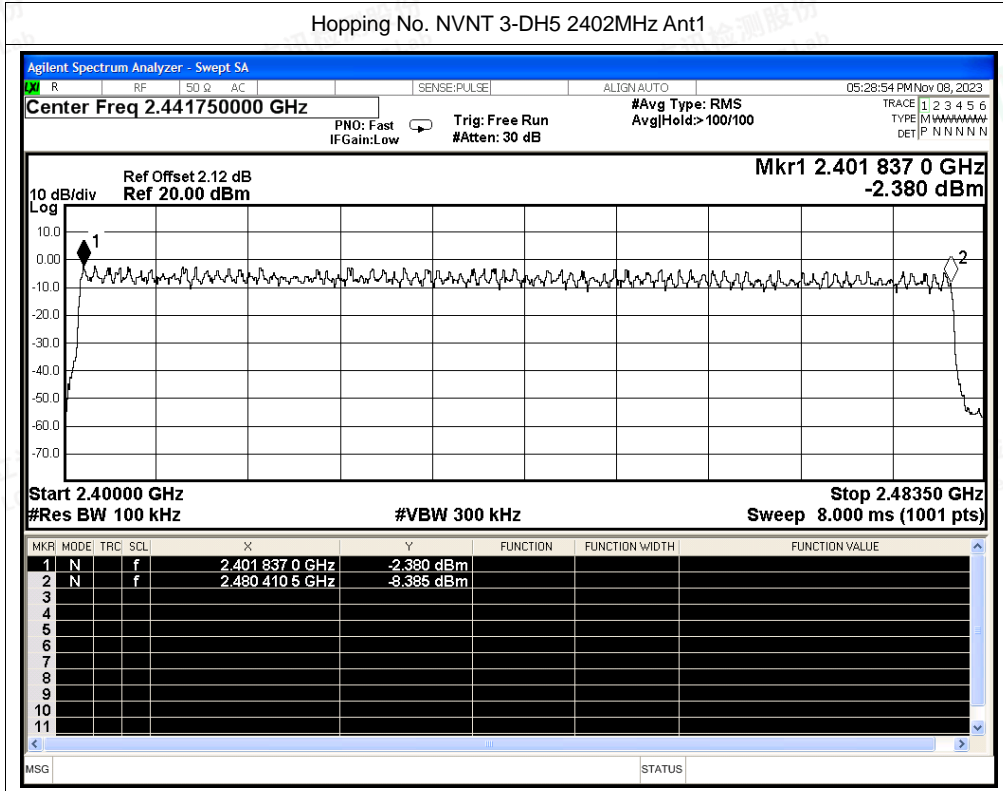


Hopping No. NVNT 2-DH5 2402MHz Ant1





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	-46.92	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-51.43	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.31	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-48.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.13	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-49.89	-20	Pass

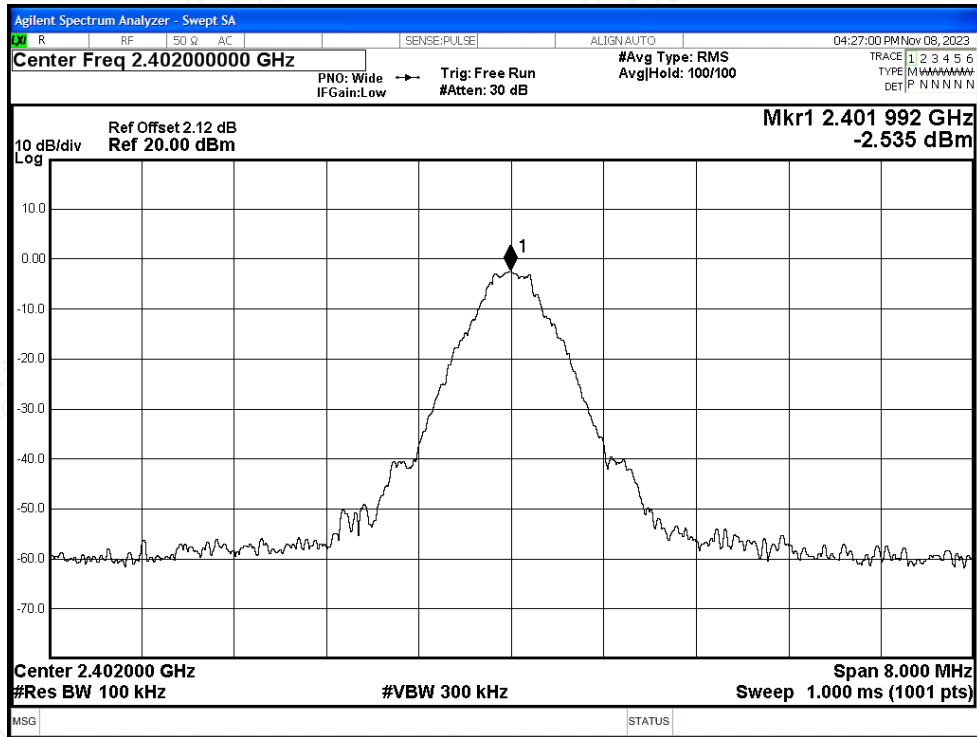


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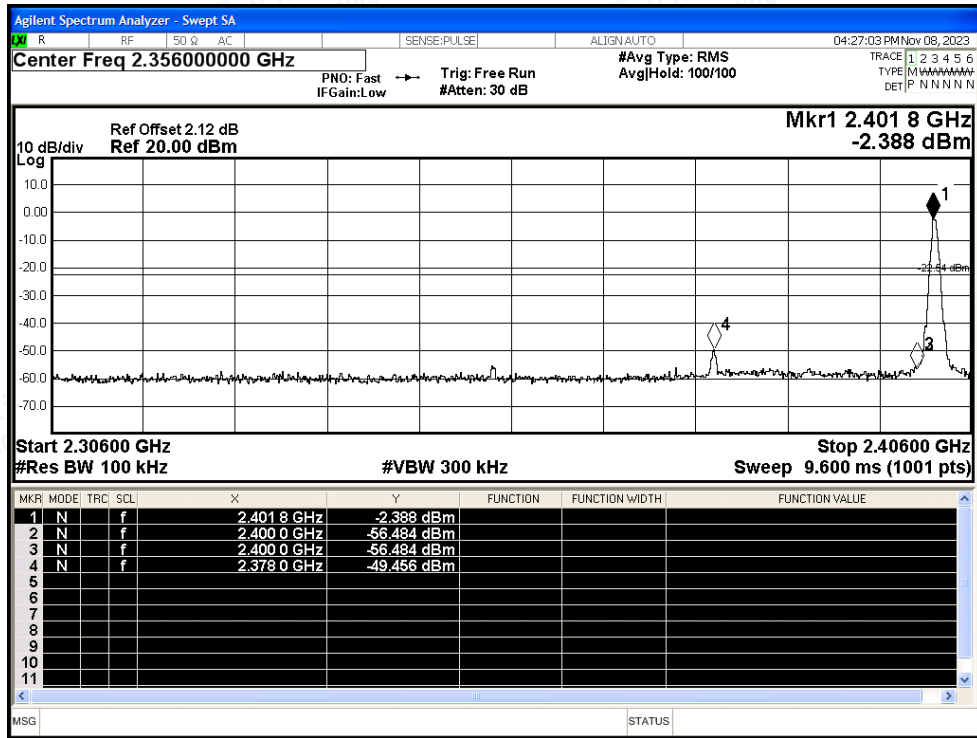


Test Graphs

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

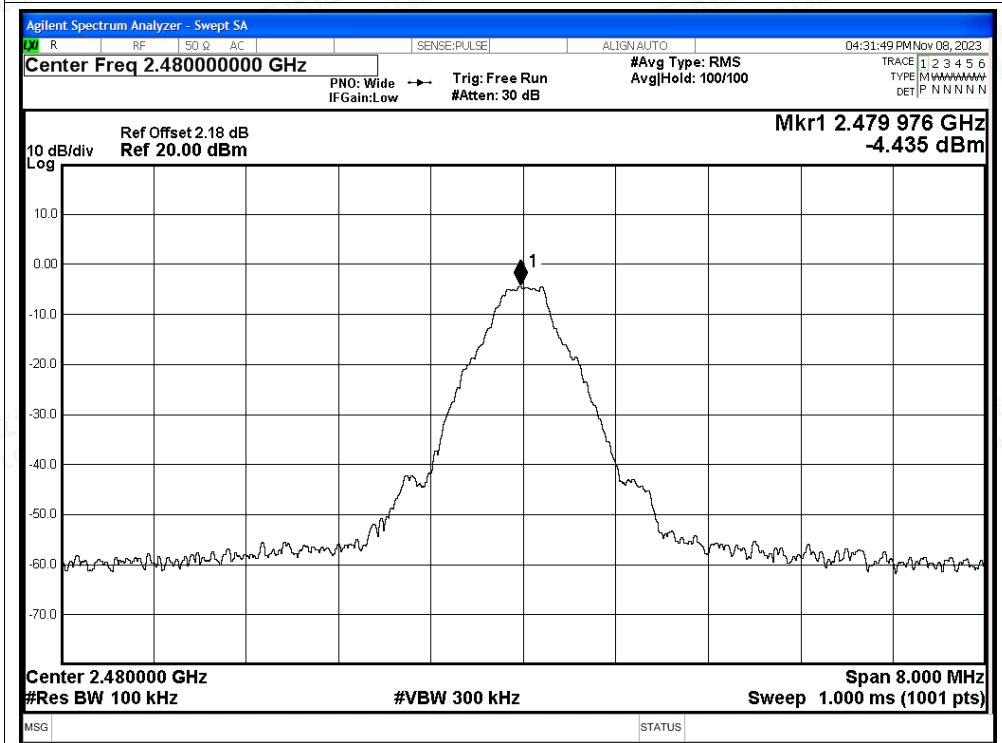


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

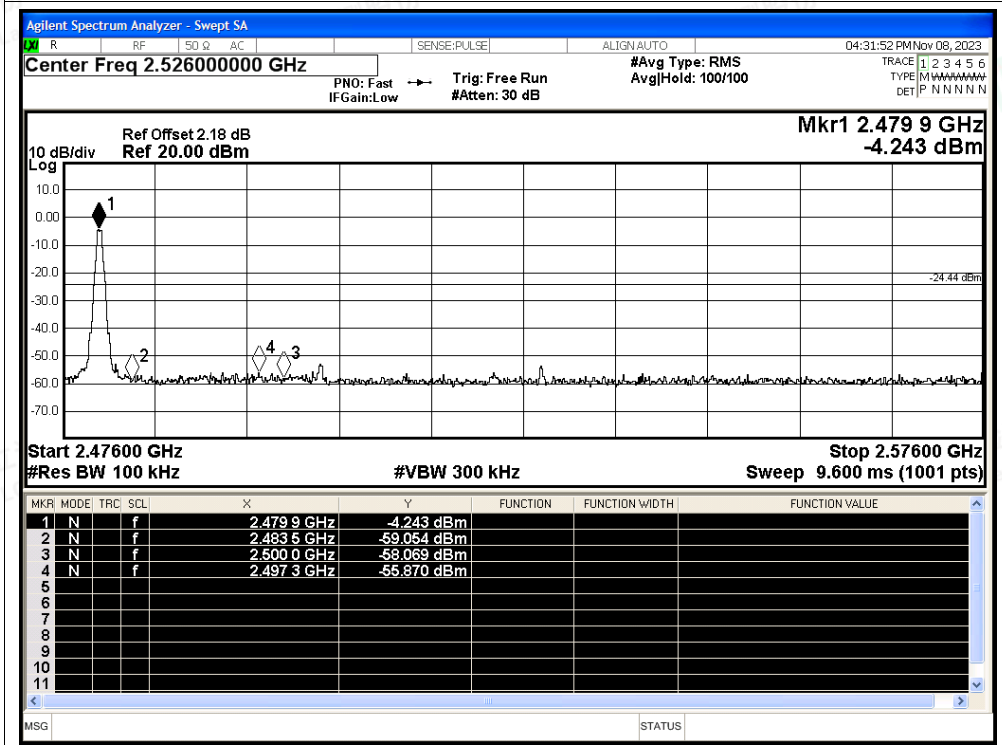




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

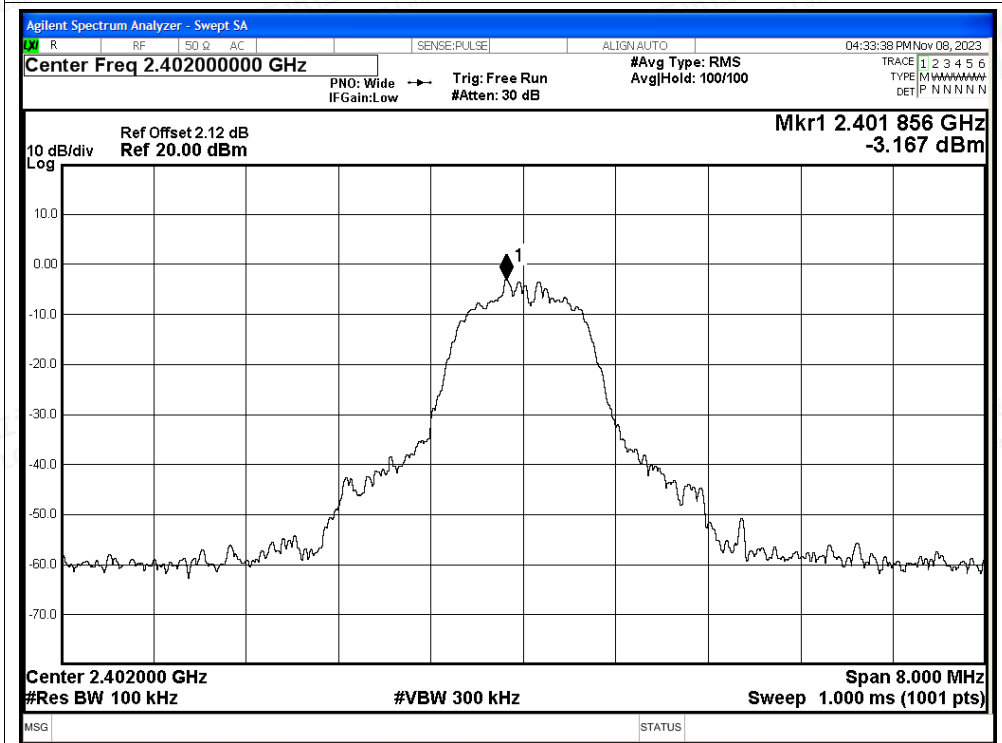


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

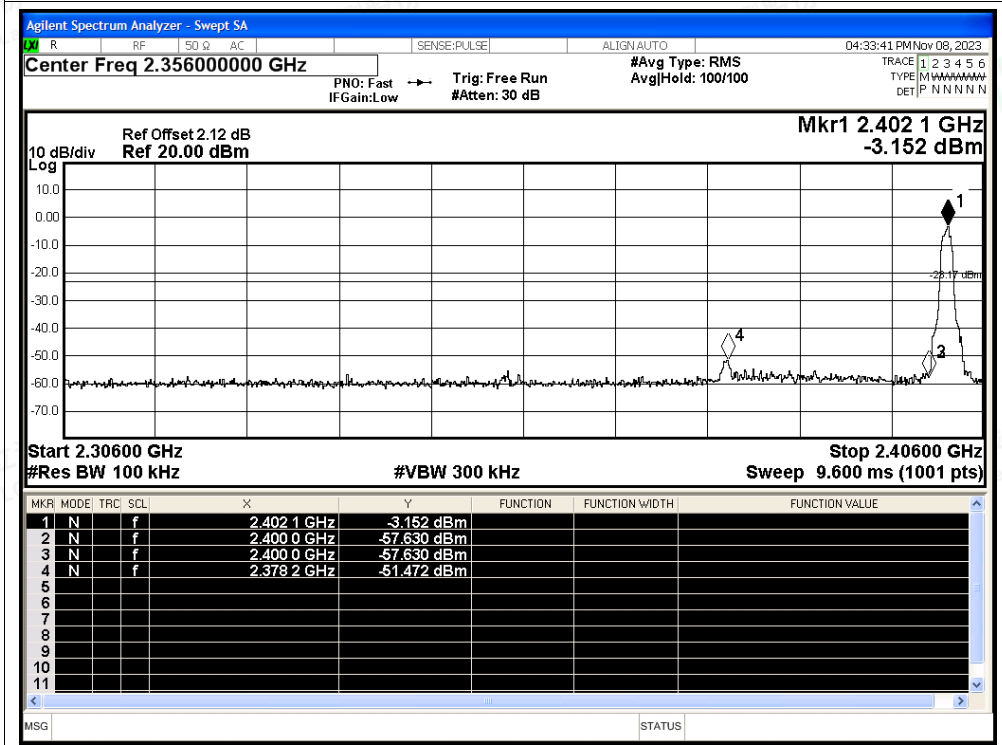




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

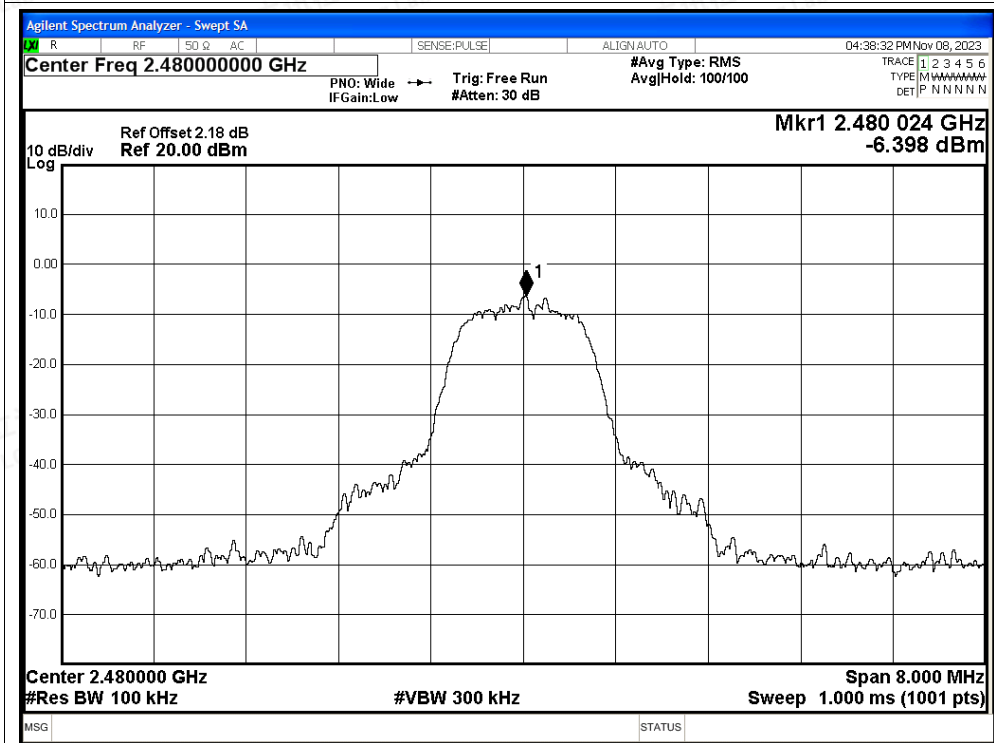


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

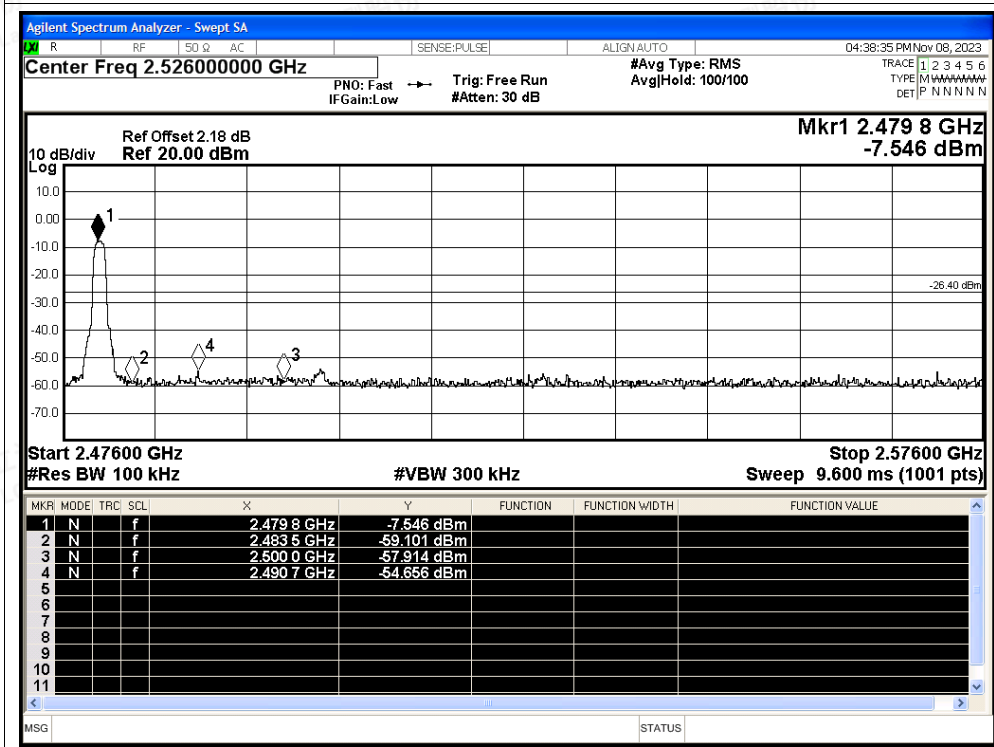




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

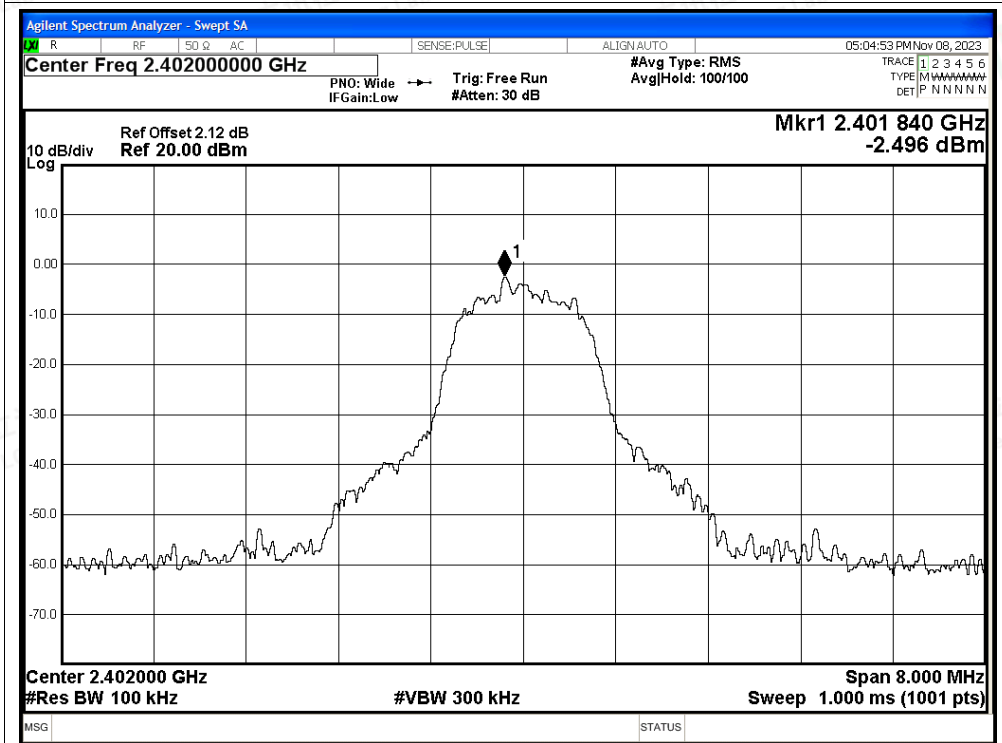


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

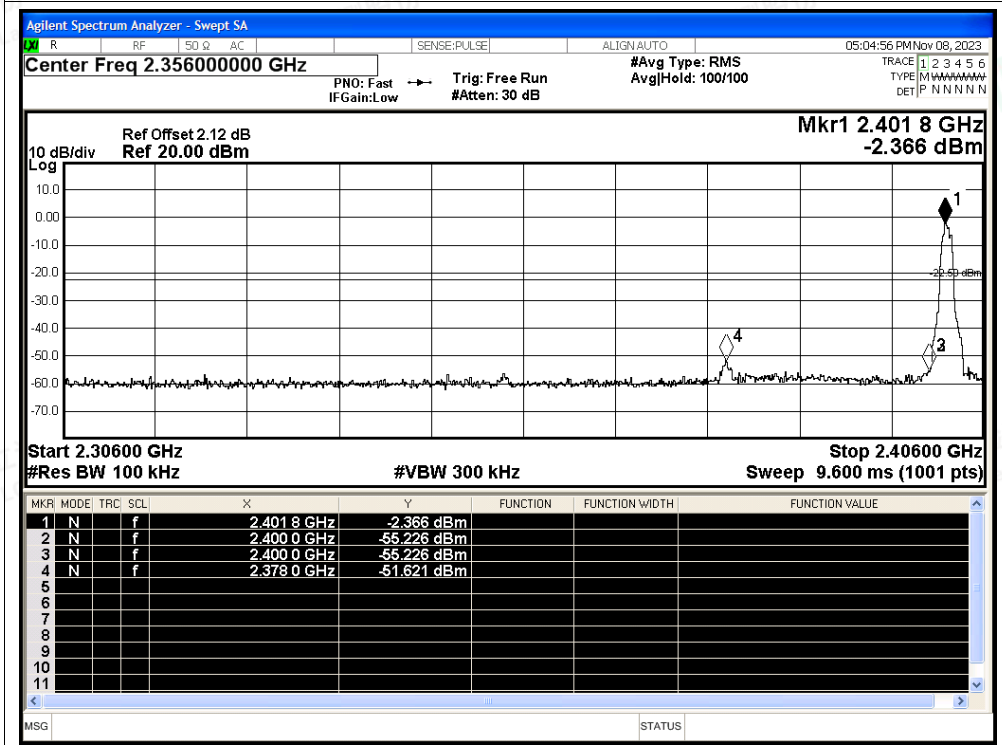




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

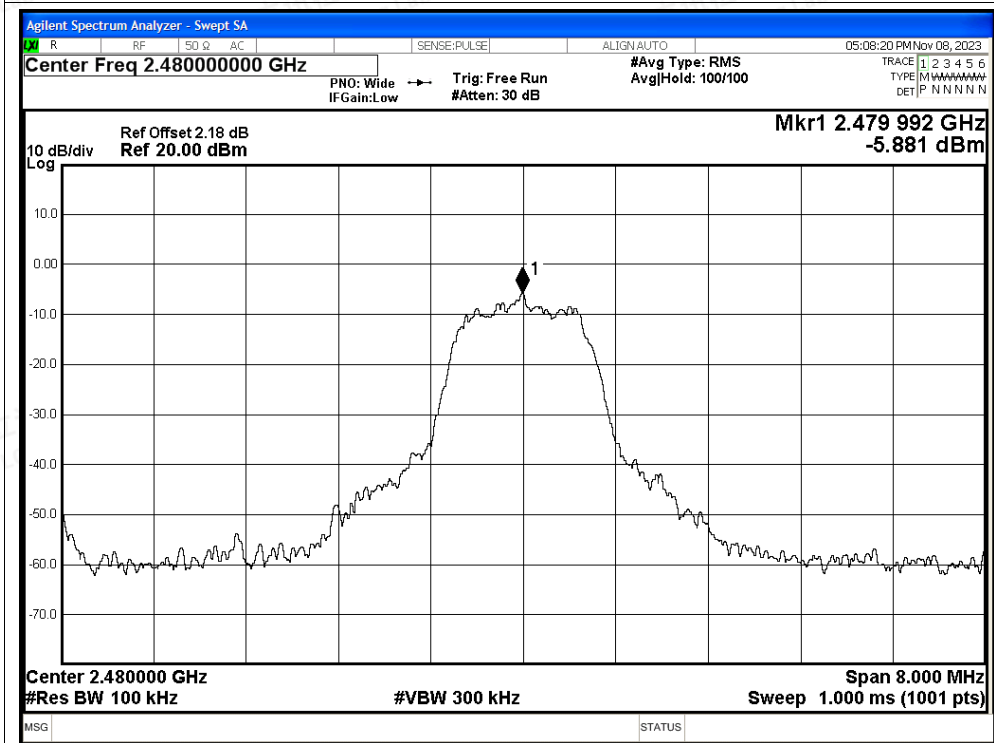


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

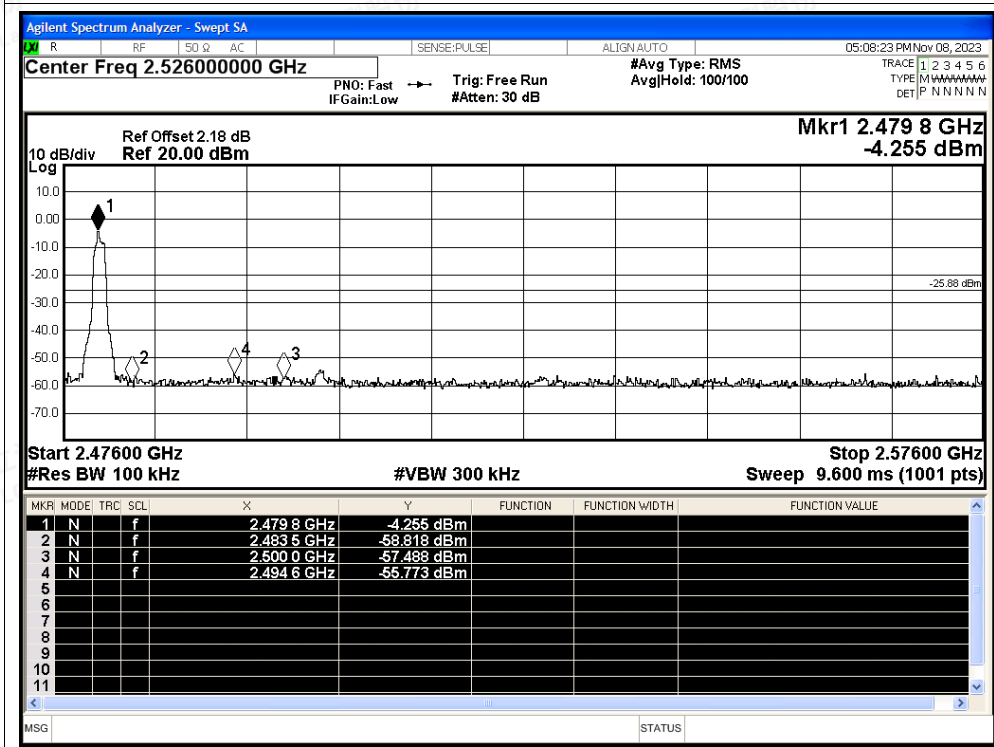




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-46.95	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-46.97	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.29	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.25	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-49.4	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-47.93	-20	Pass

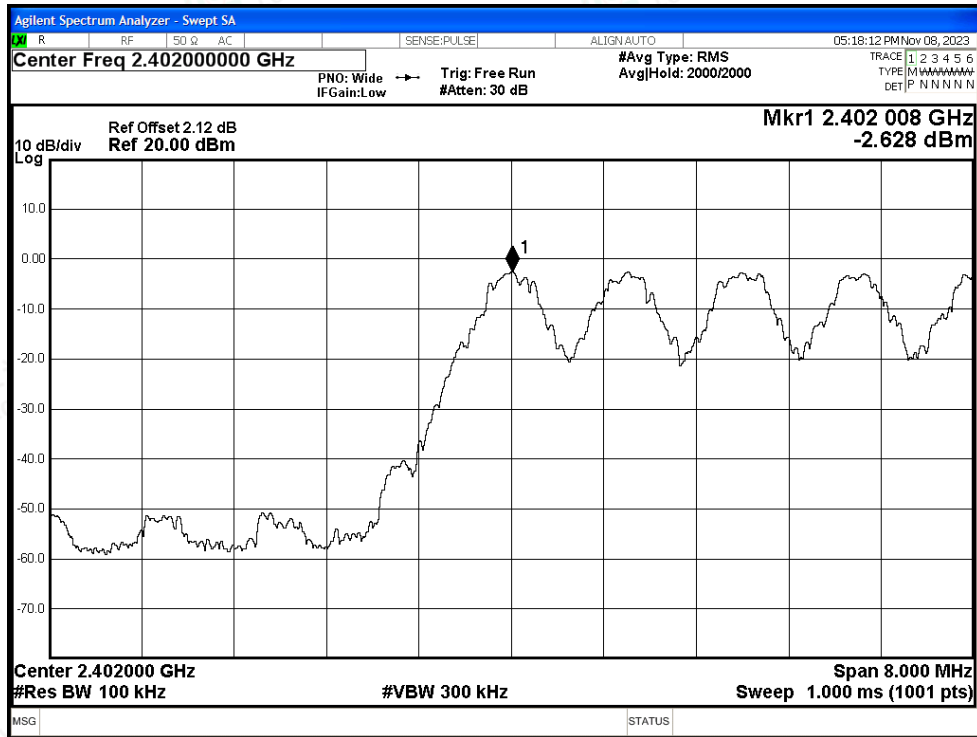


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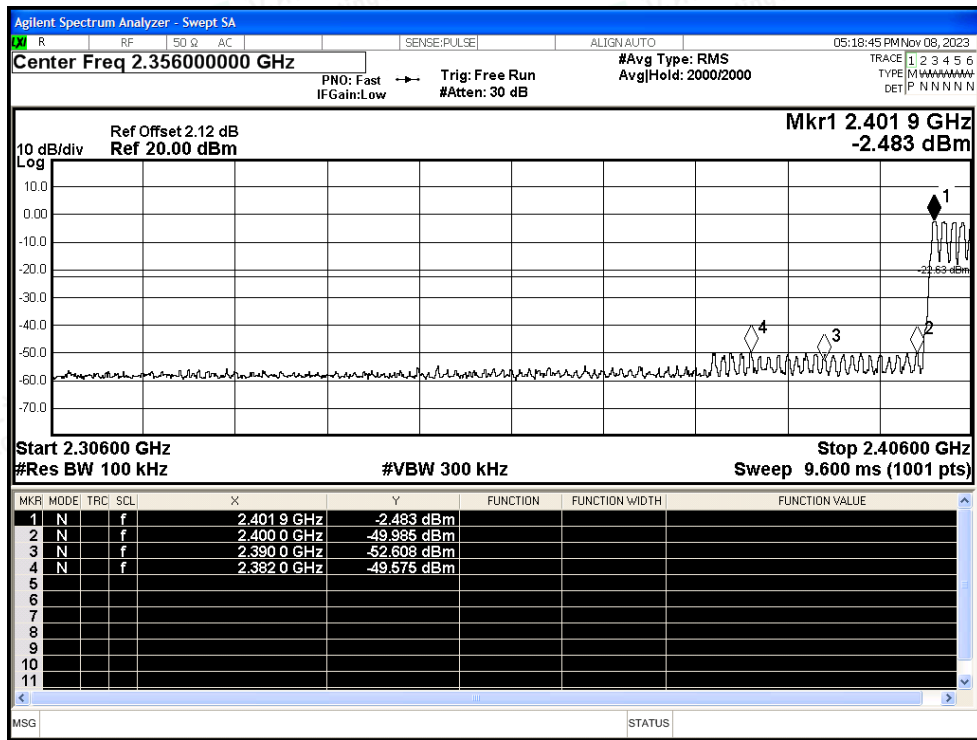


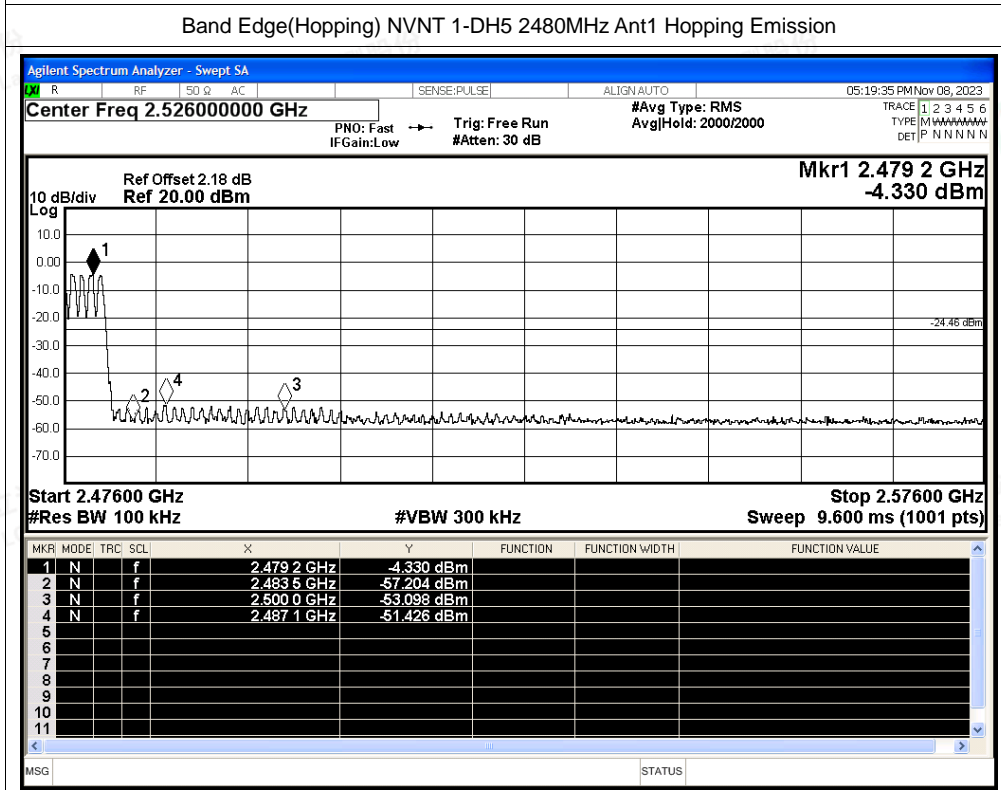
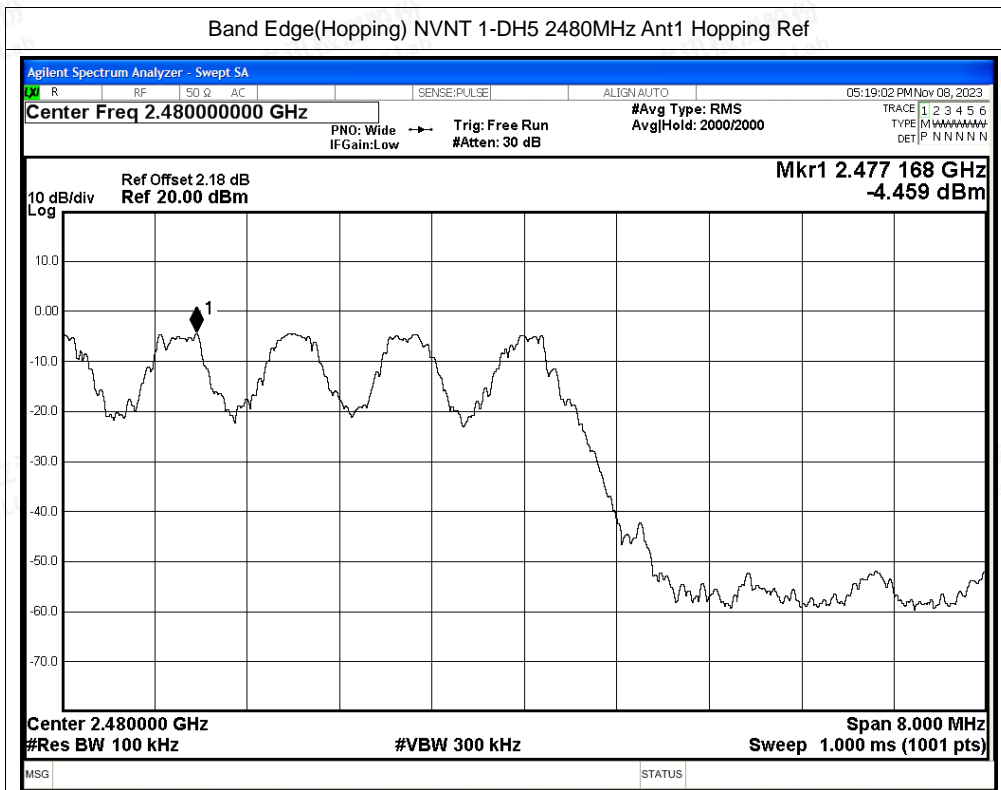
Test Graphs

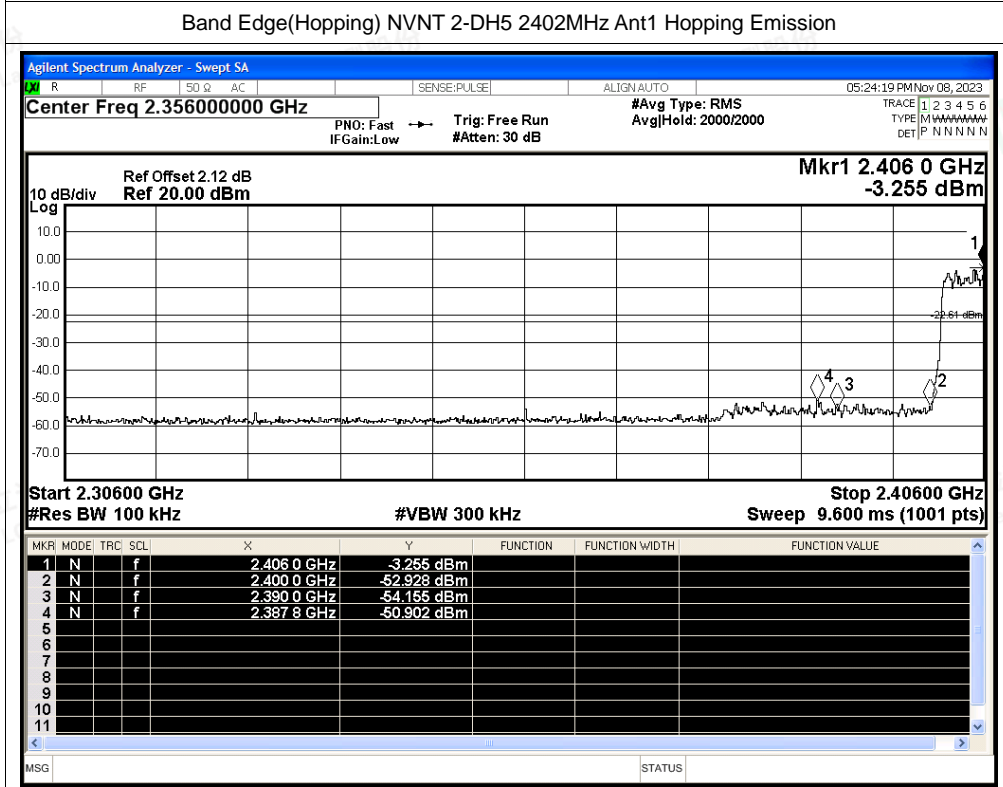
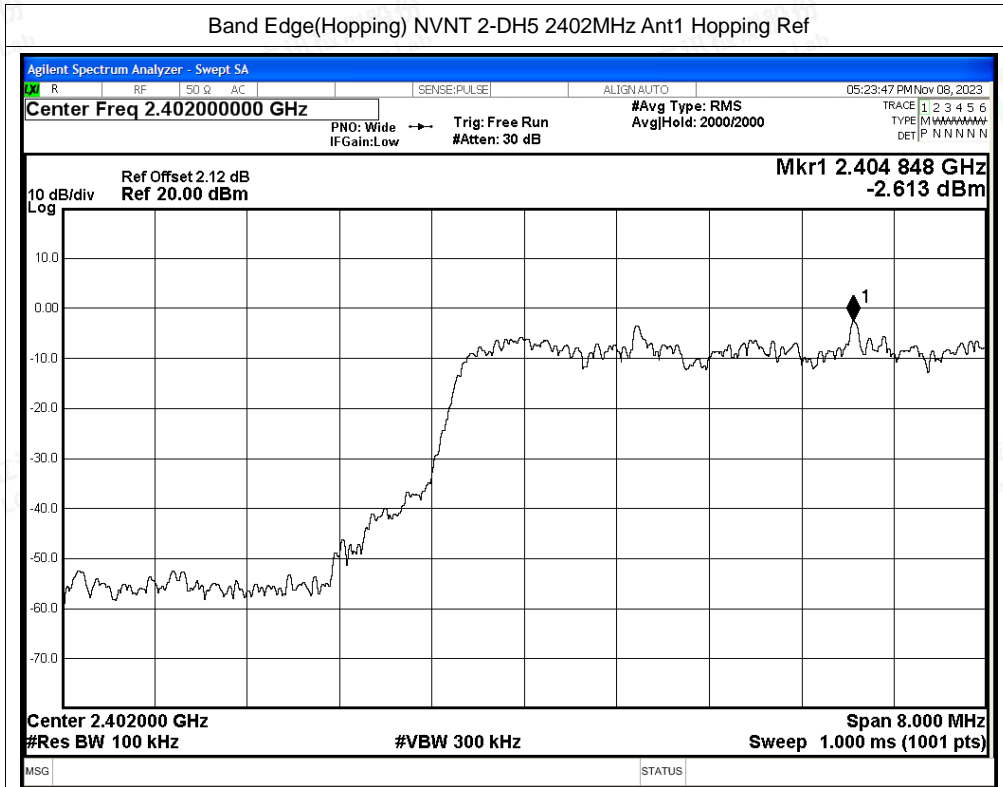
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

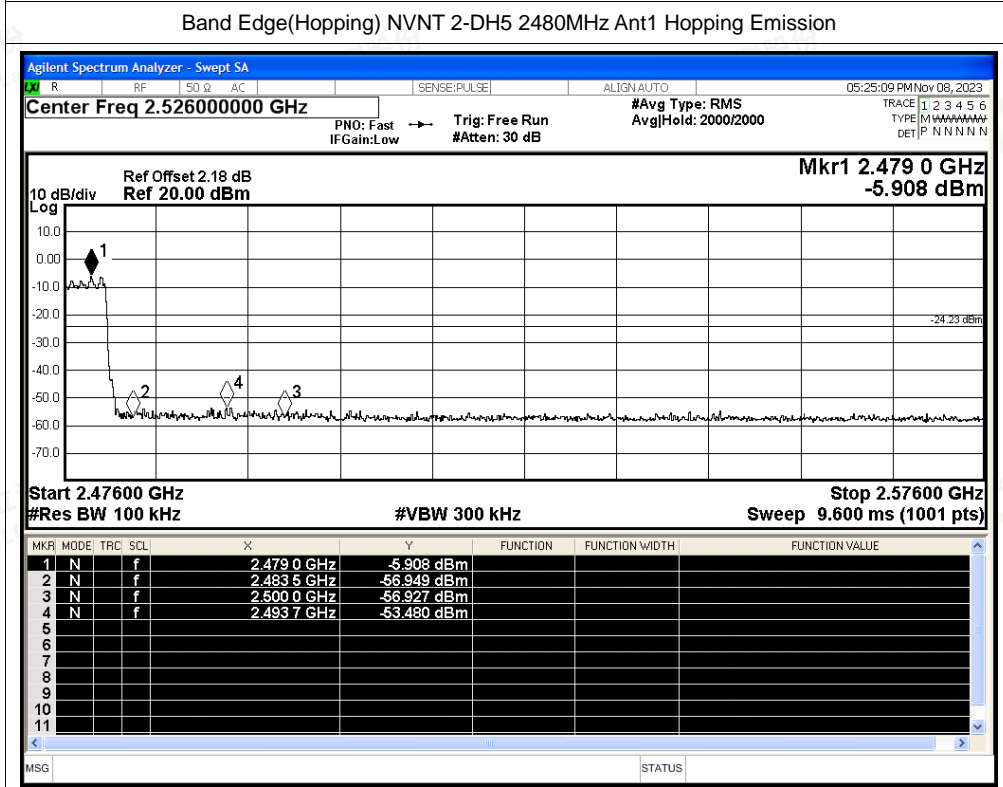
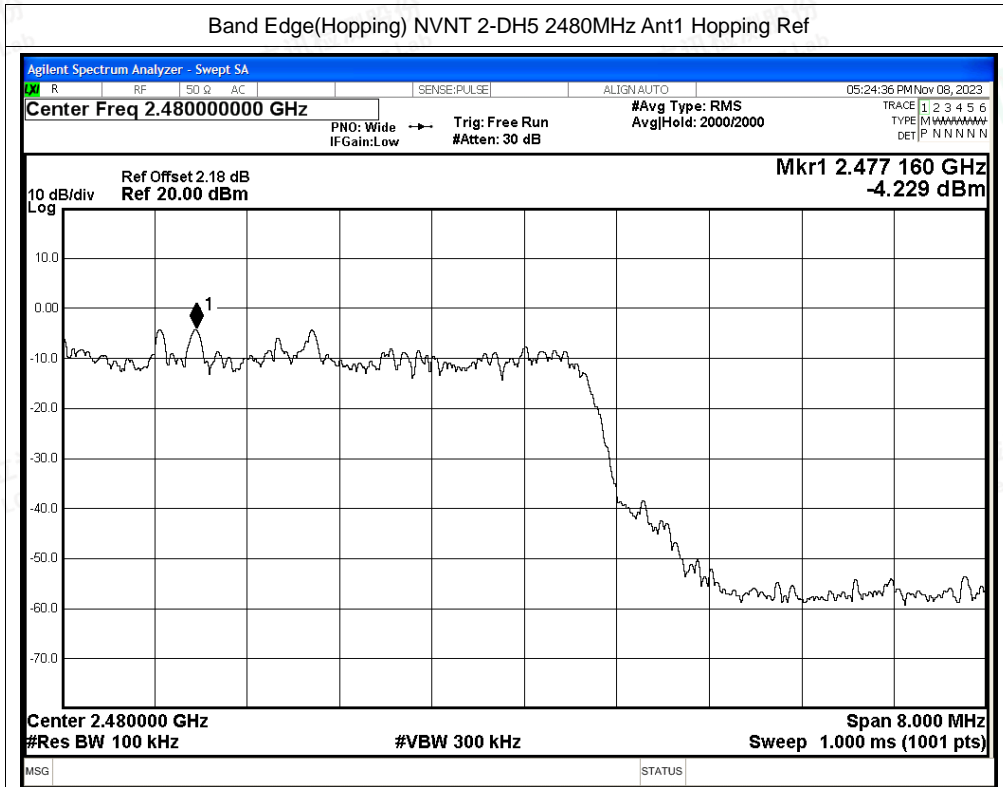


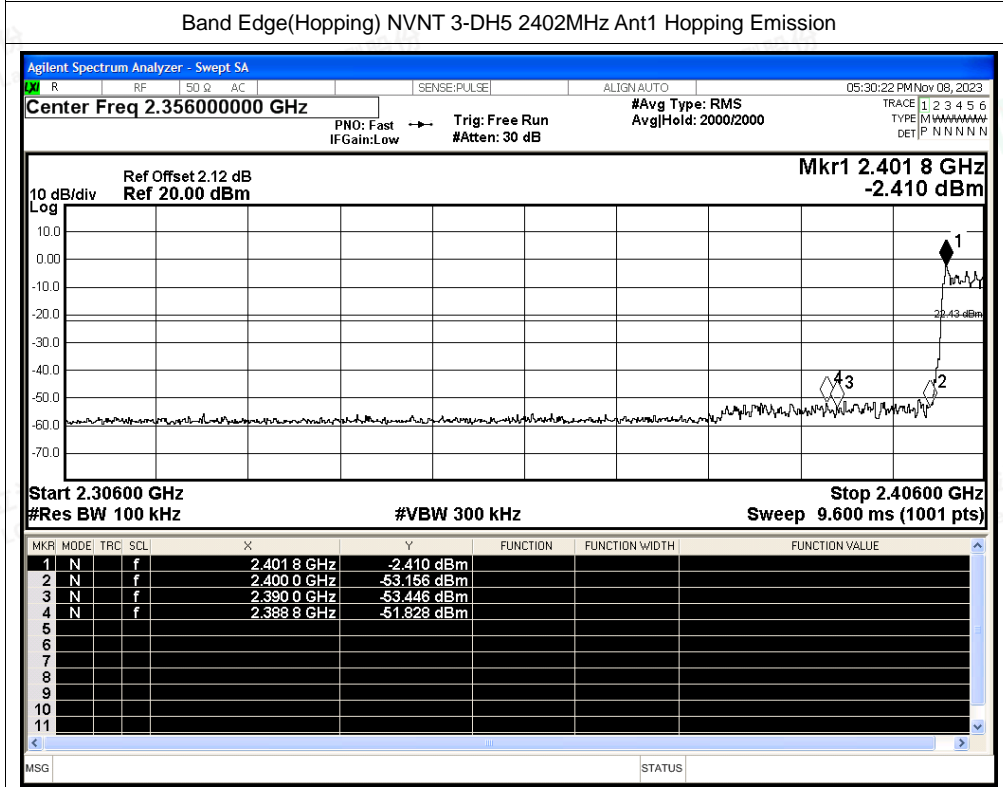
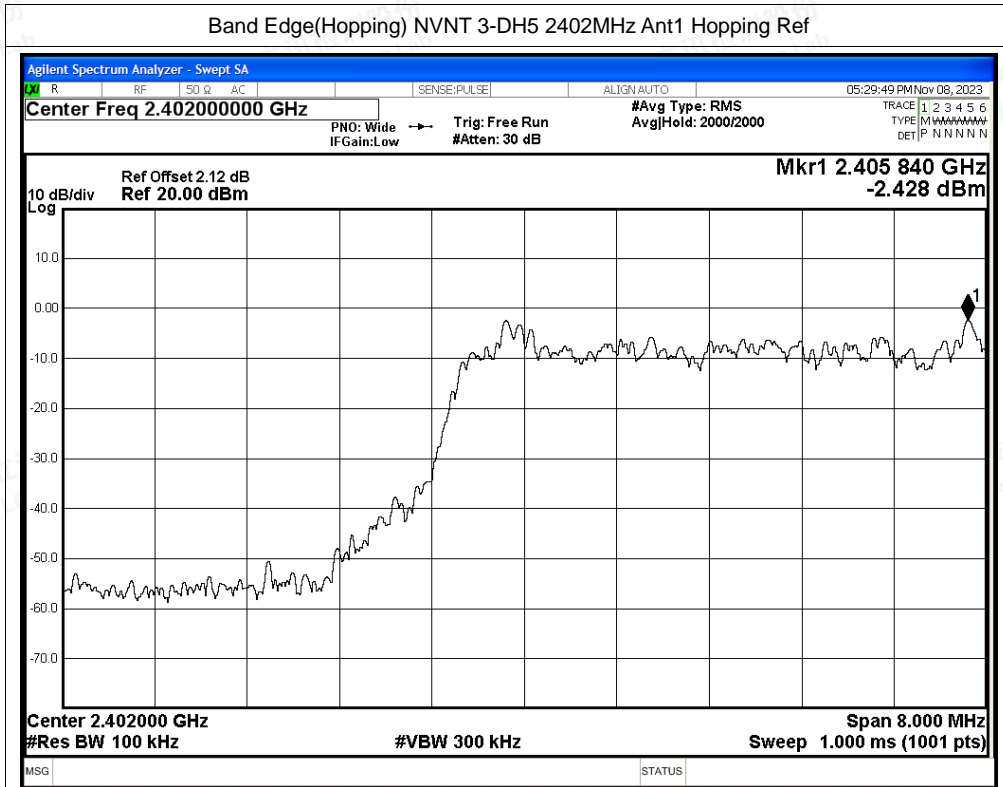
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

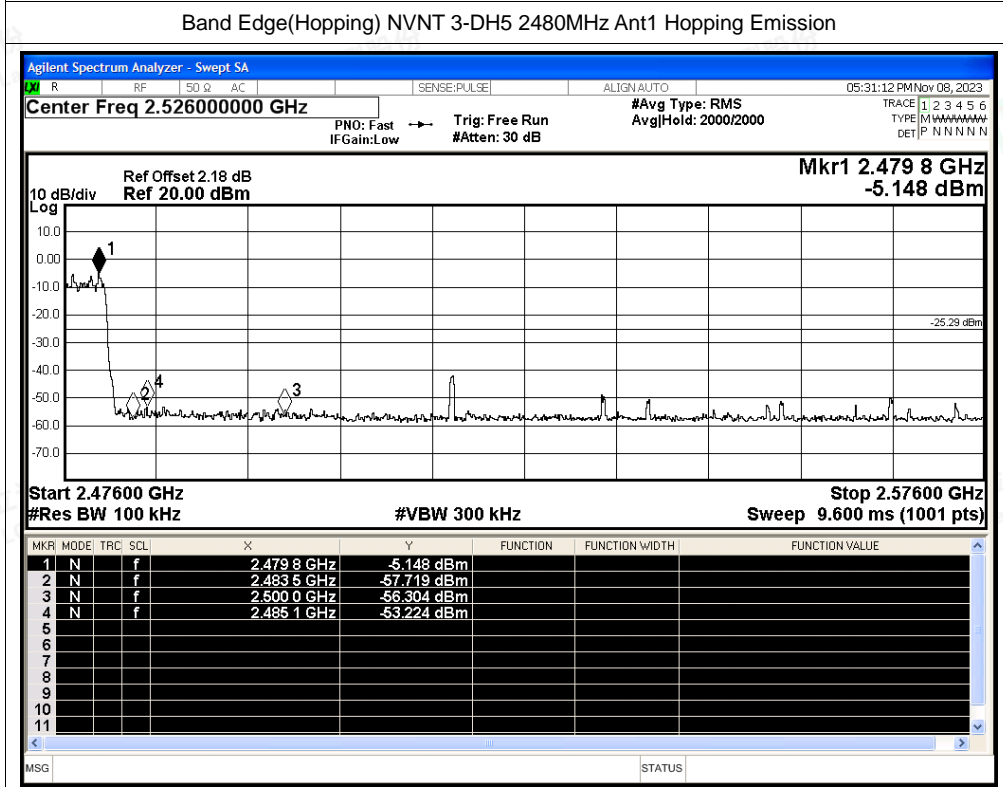
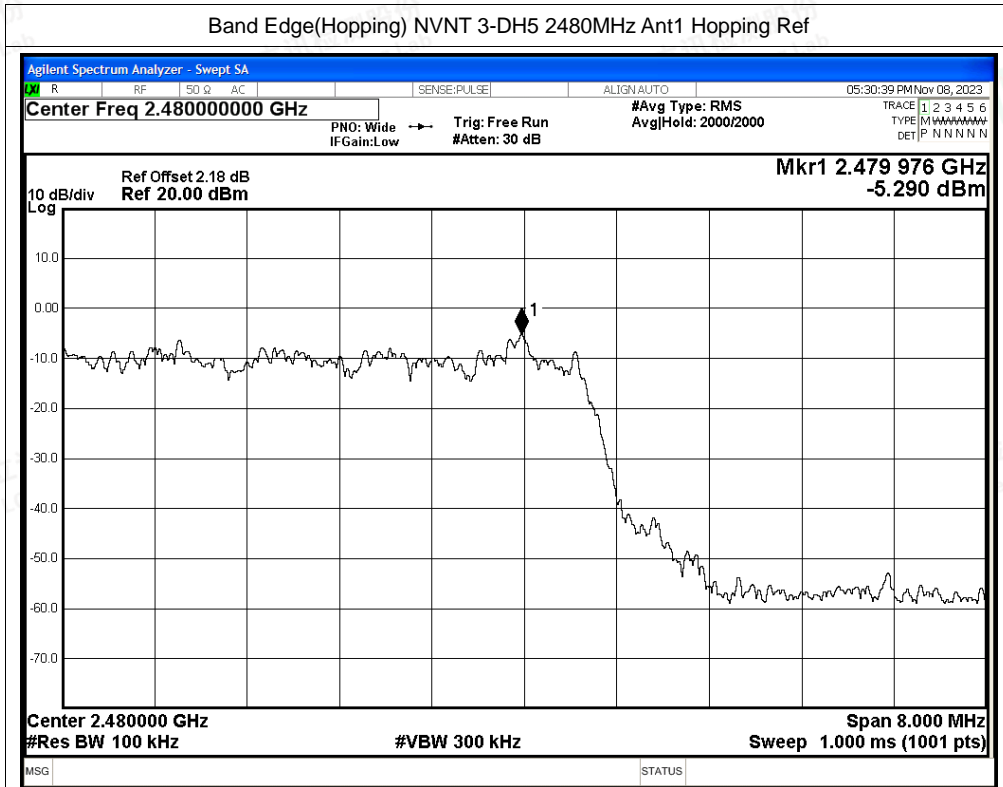














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-42.97	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.17	-20	Pass
NVNT	1-DH5	2480	Ant1	-41.14	-20	Pass
NVNT	2-DH5	2402	Ant1	-43.21	-20	Pass
NVNT	2-DH5	2441	Ant1	-42.25	-20	Pass
NVNT	2-DH5	2480	Ant1	-41.4	-20	Pass
NVNT	3-DH5	2402	Ant1	-43.01	-20	Pass
NVNT	3-DH5	2441	Ant1	-42.43	-20	Pass
NVNT	3-DH5	2480	Ant1	-35.28	-20	Pass

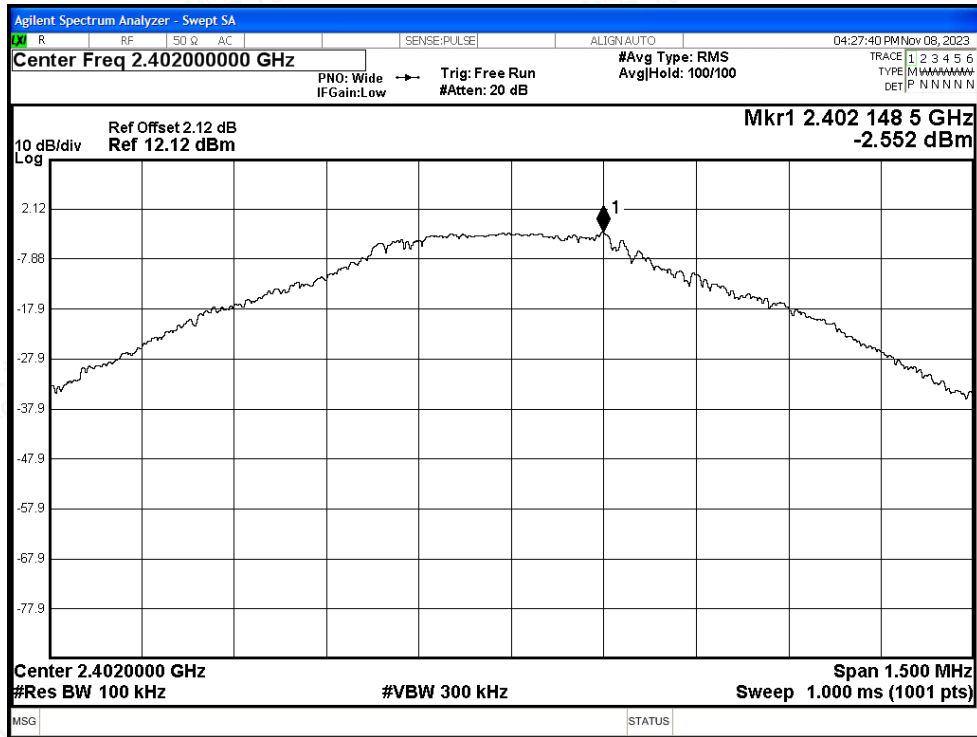


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Scan code to check authenticity

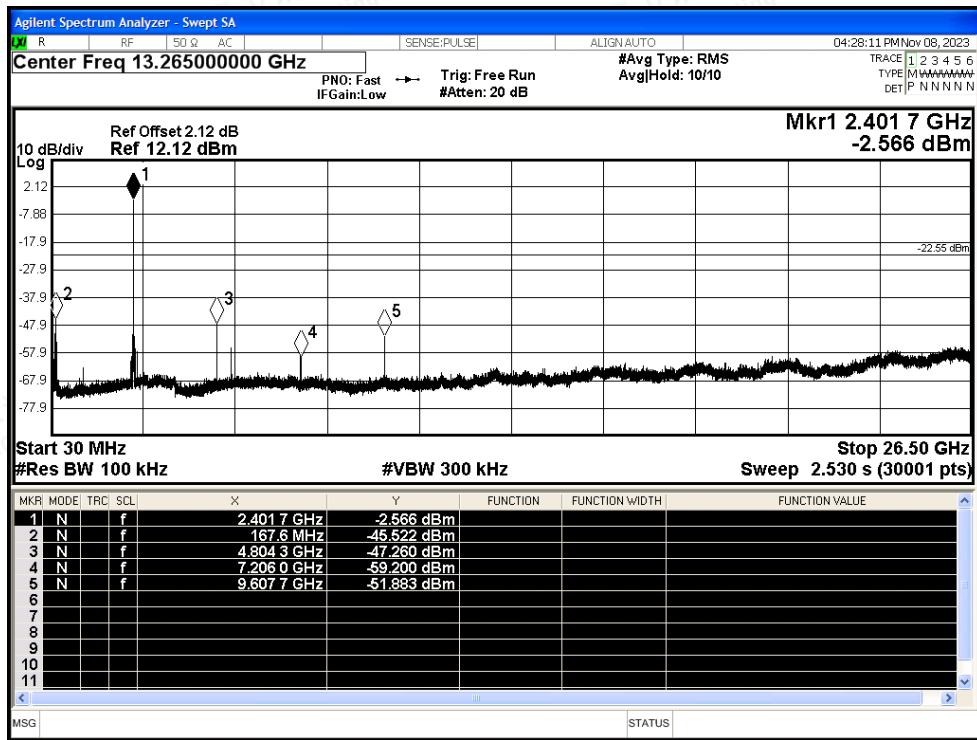


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

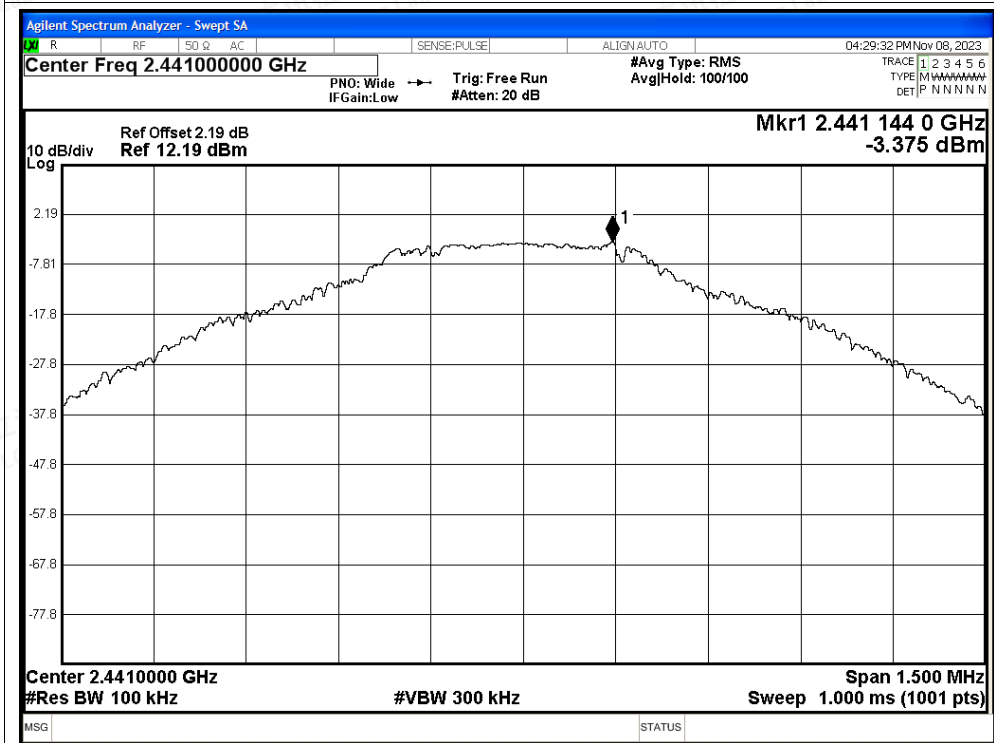


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

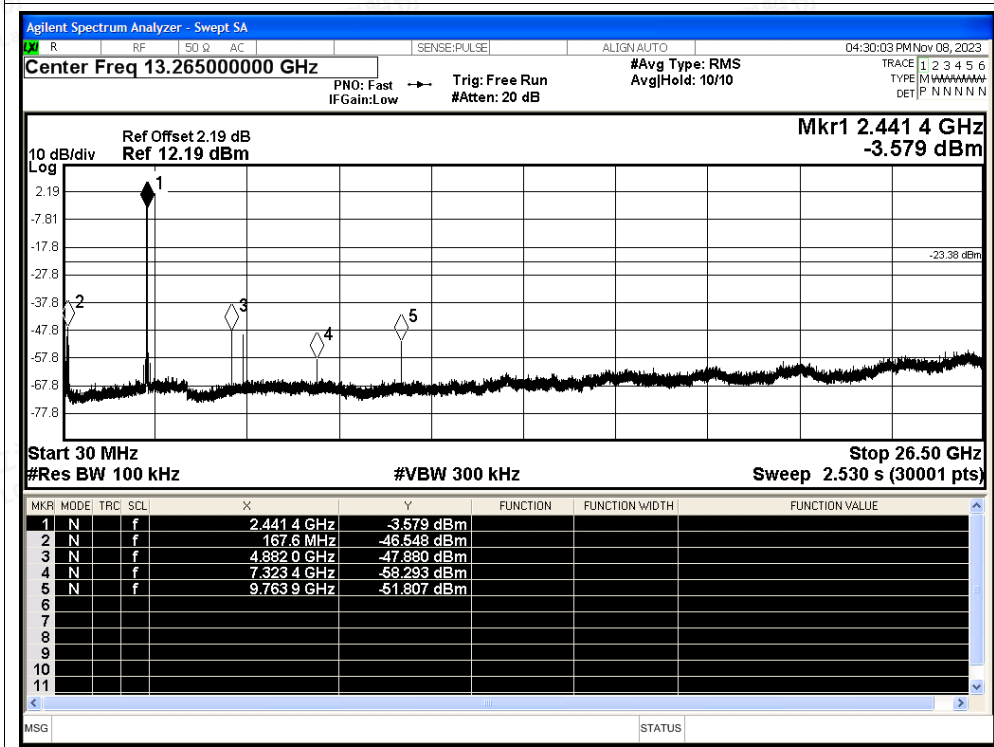




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

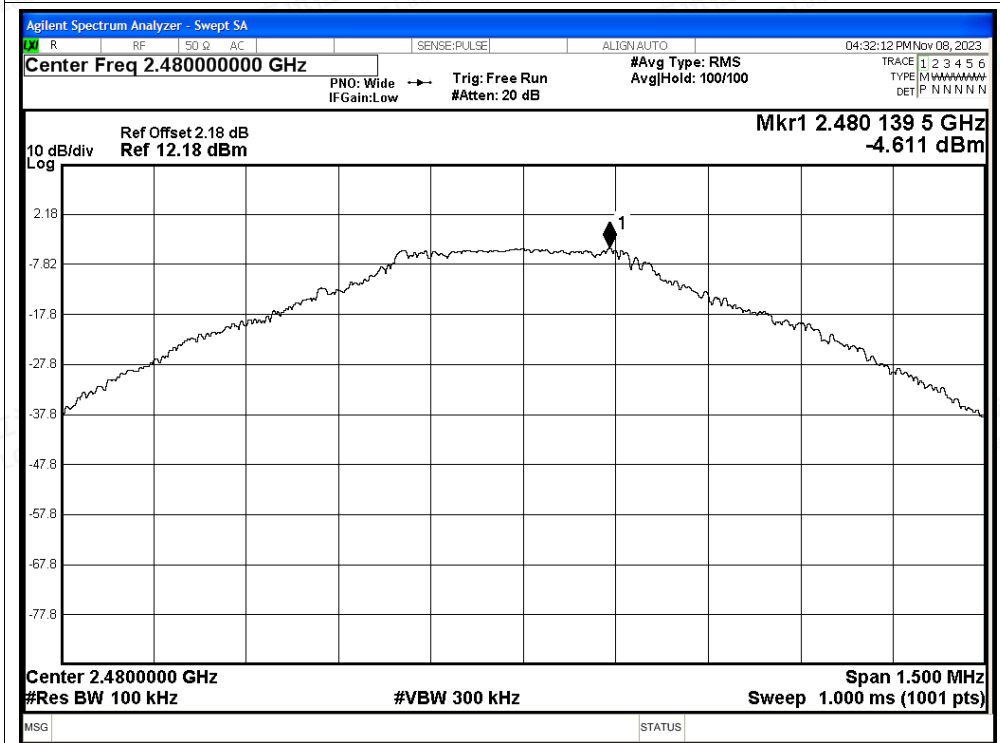


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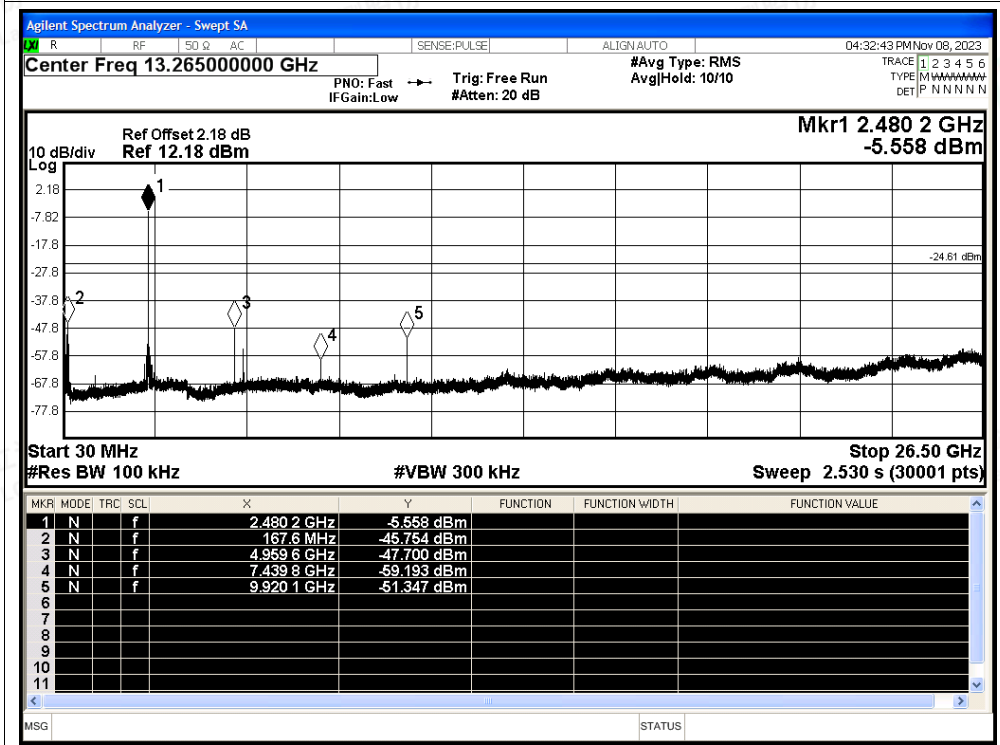




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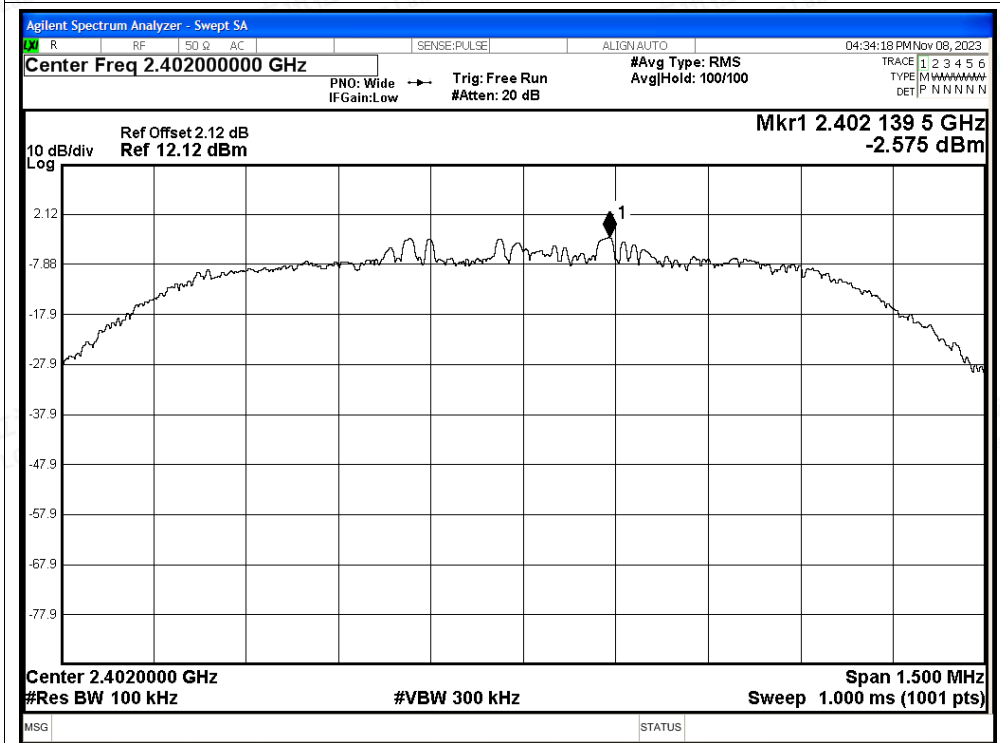


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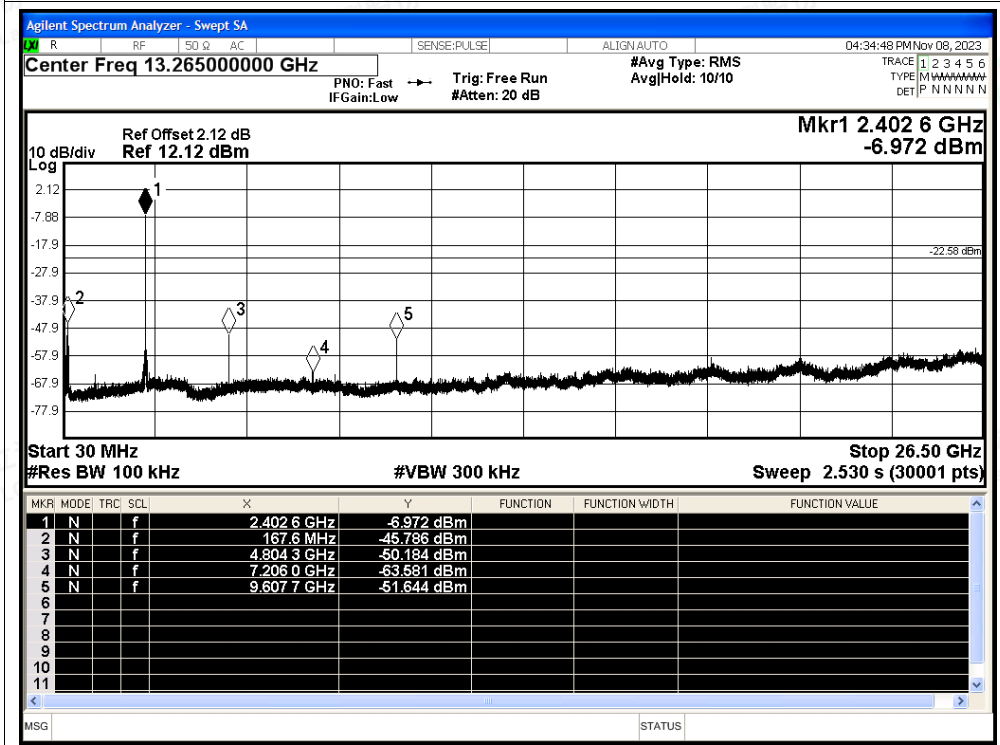




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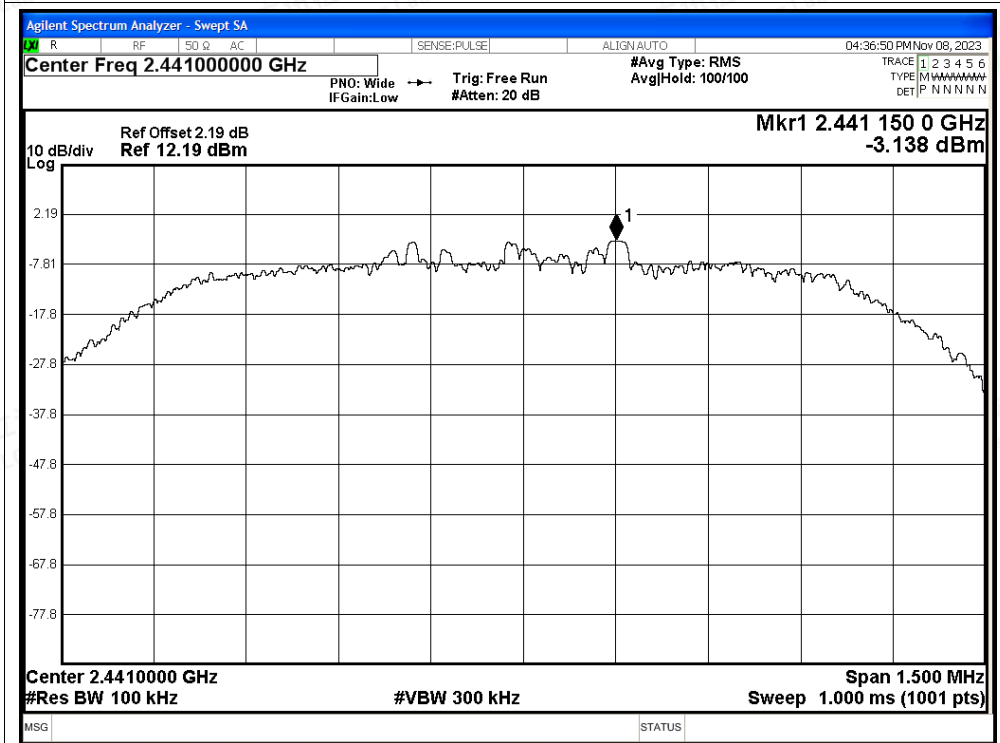


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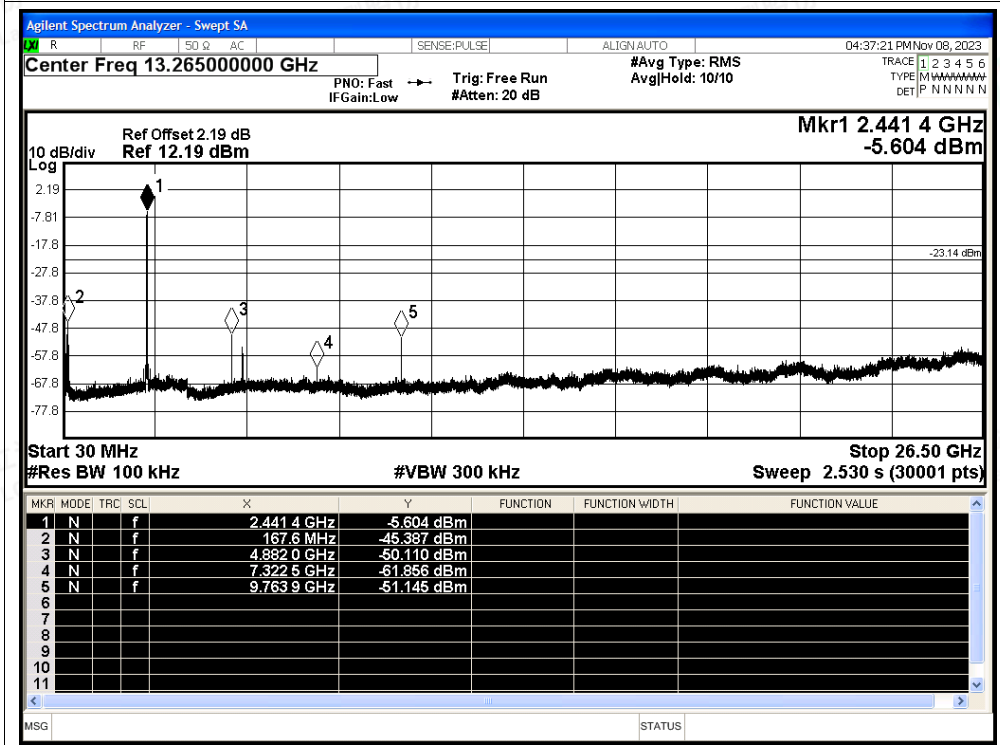




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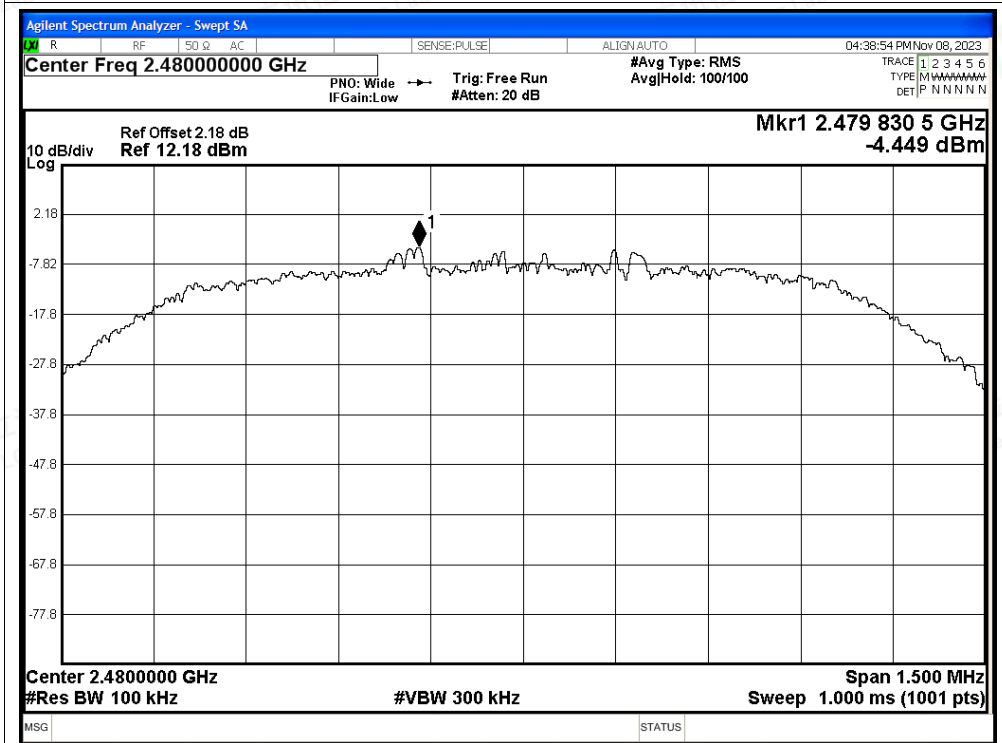


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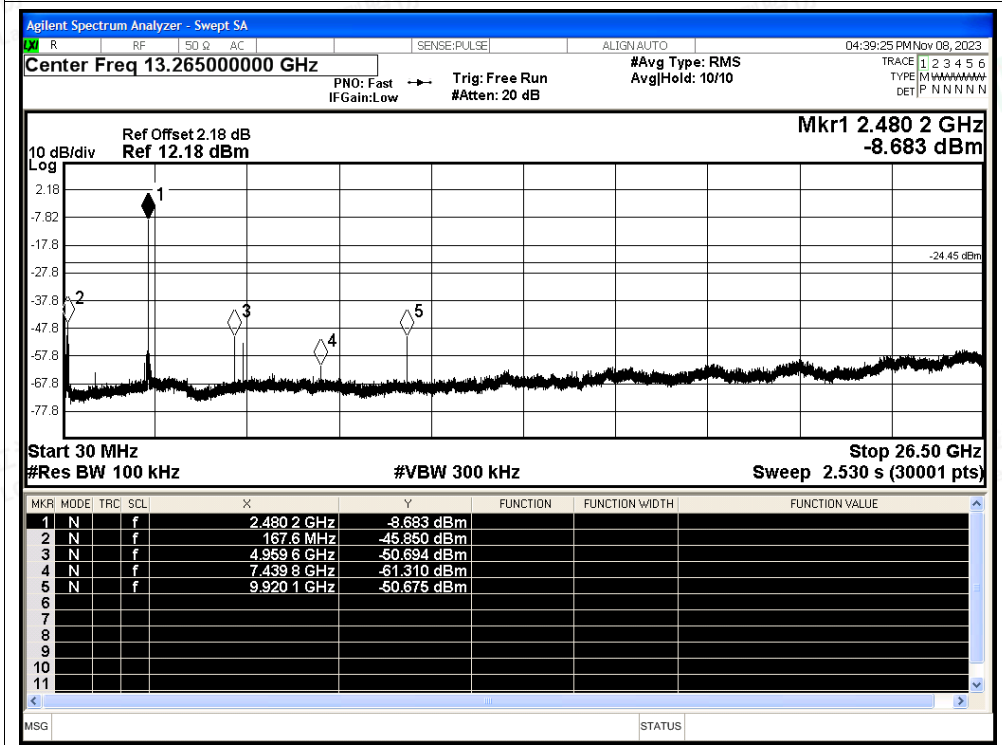




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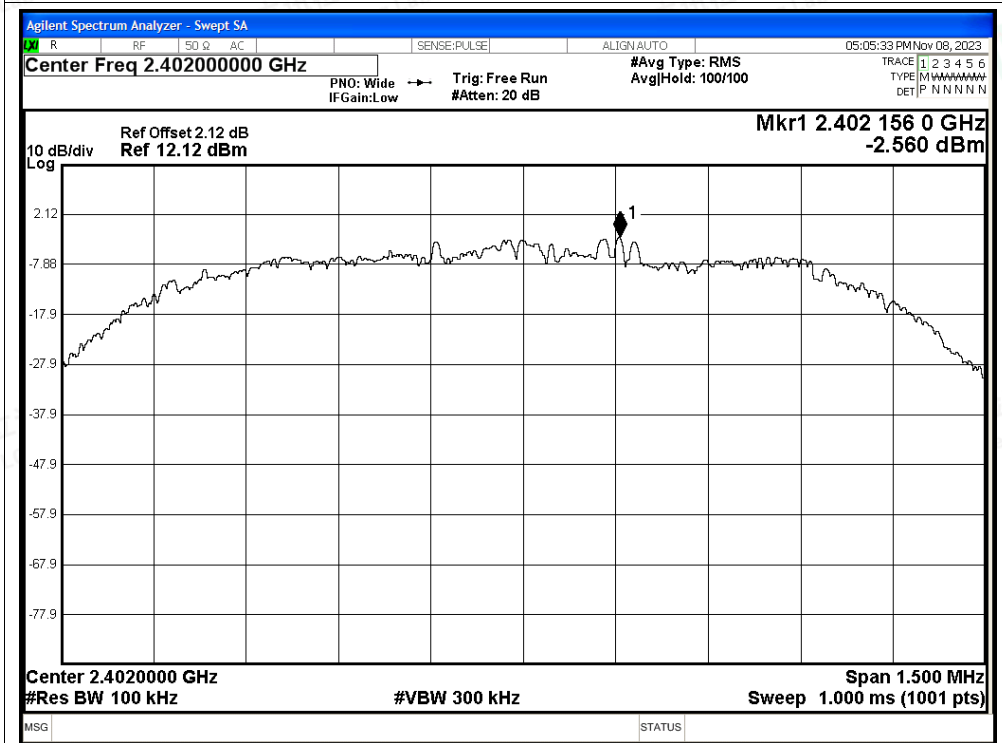


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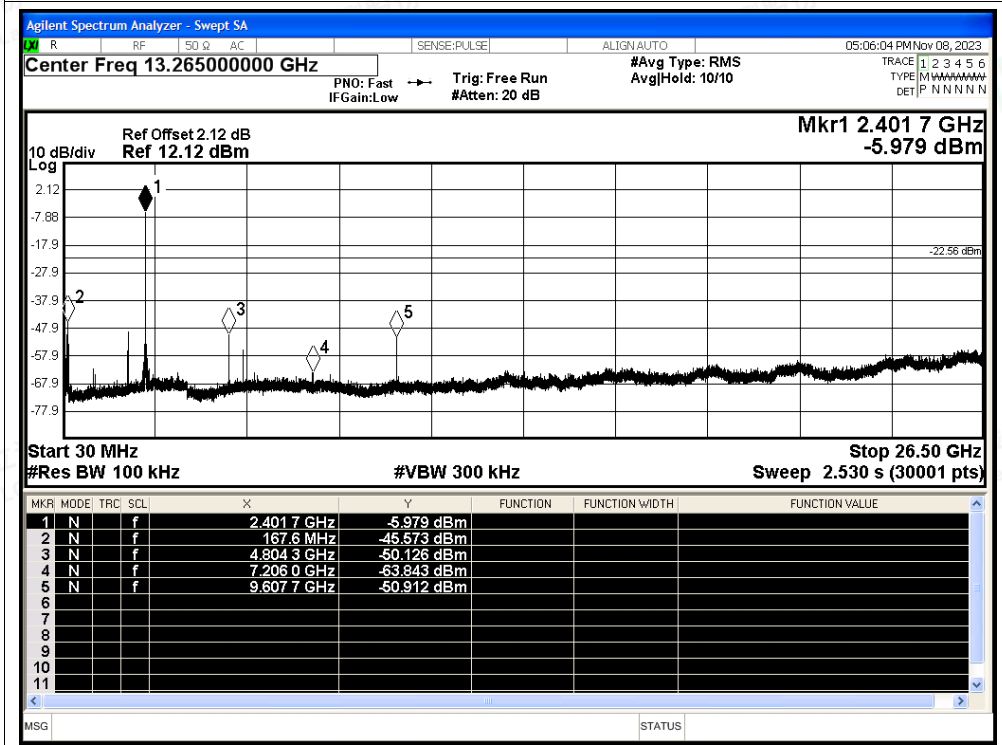




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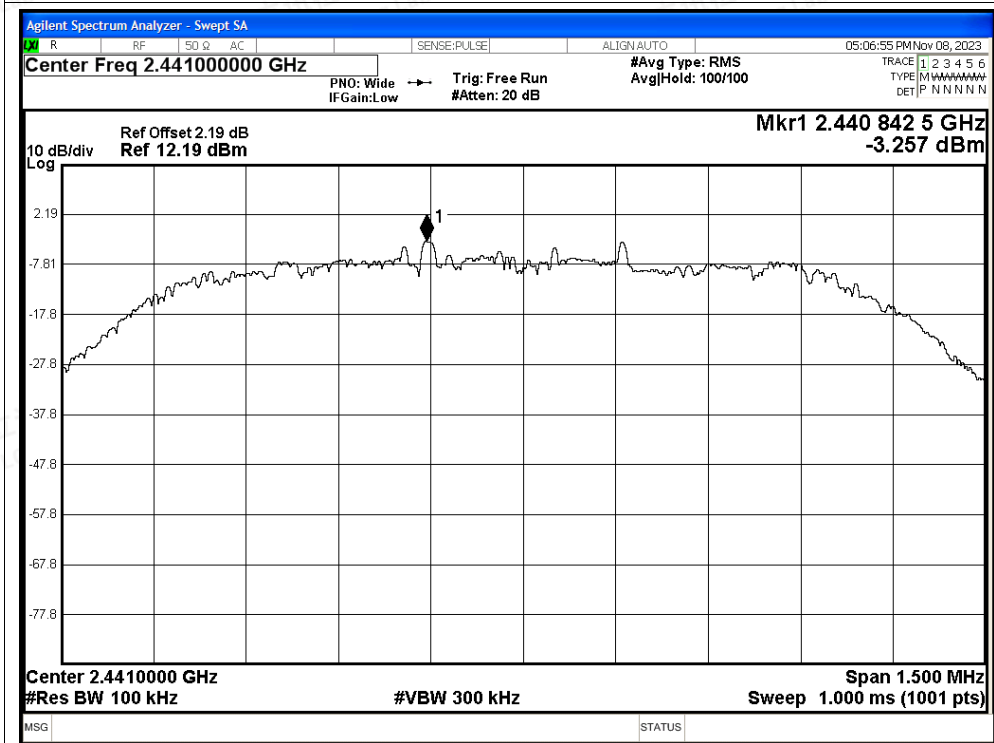


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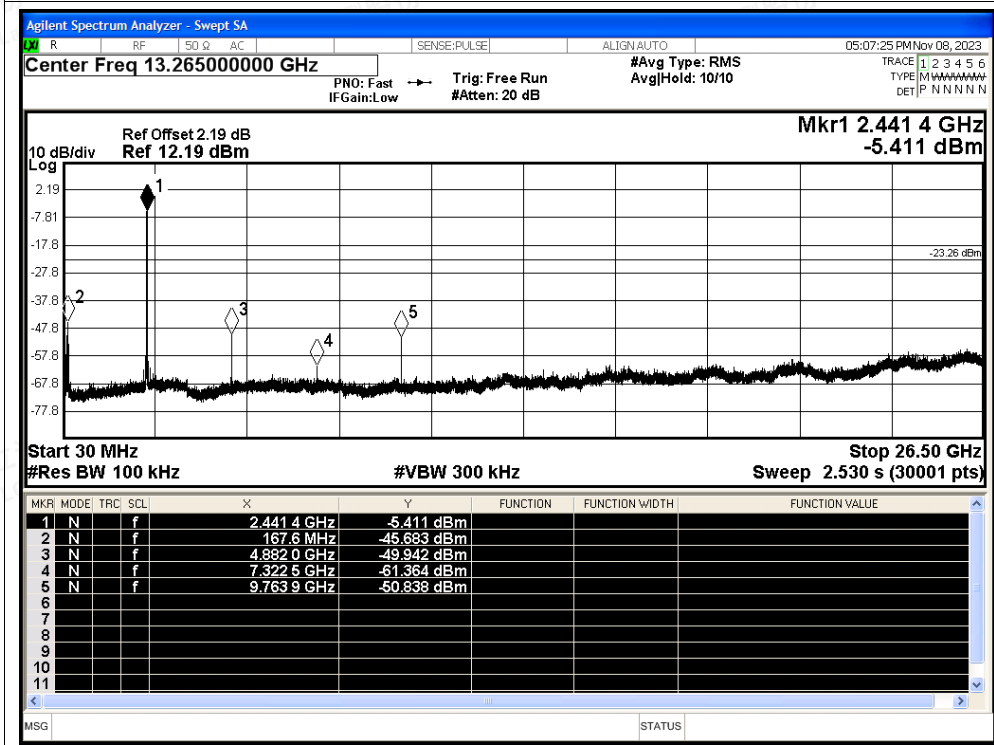




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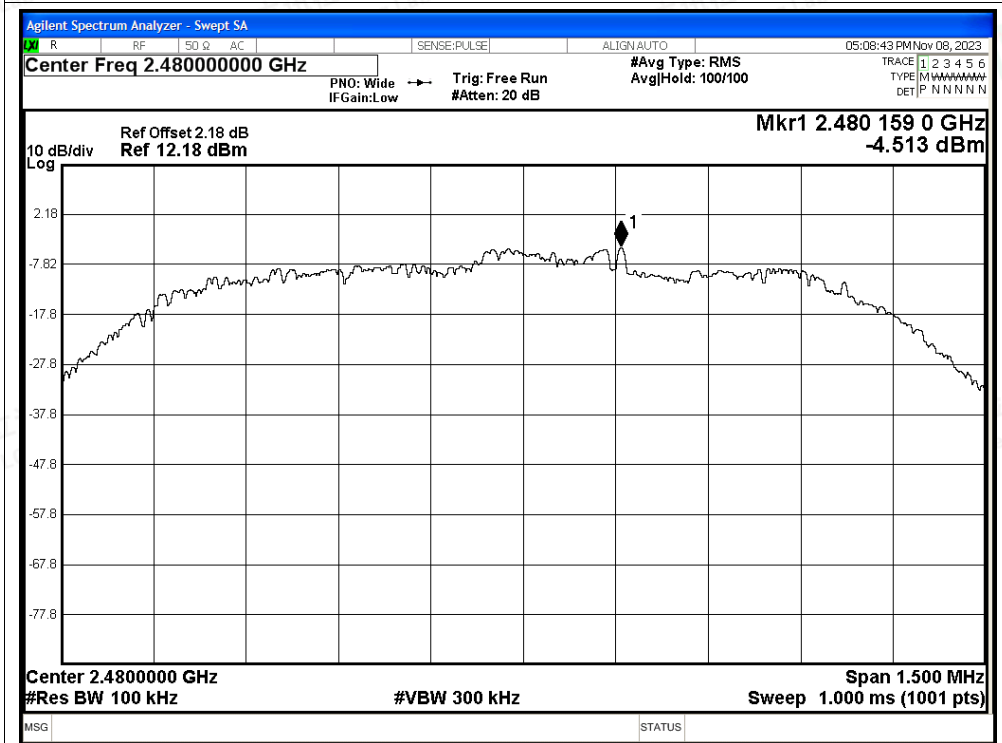


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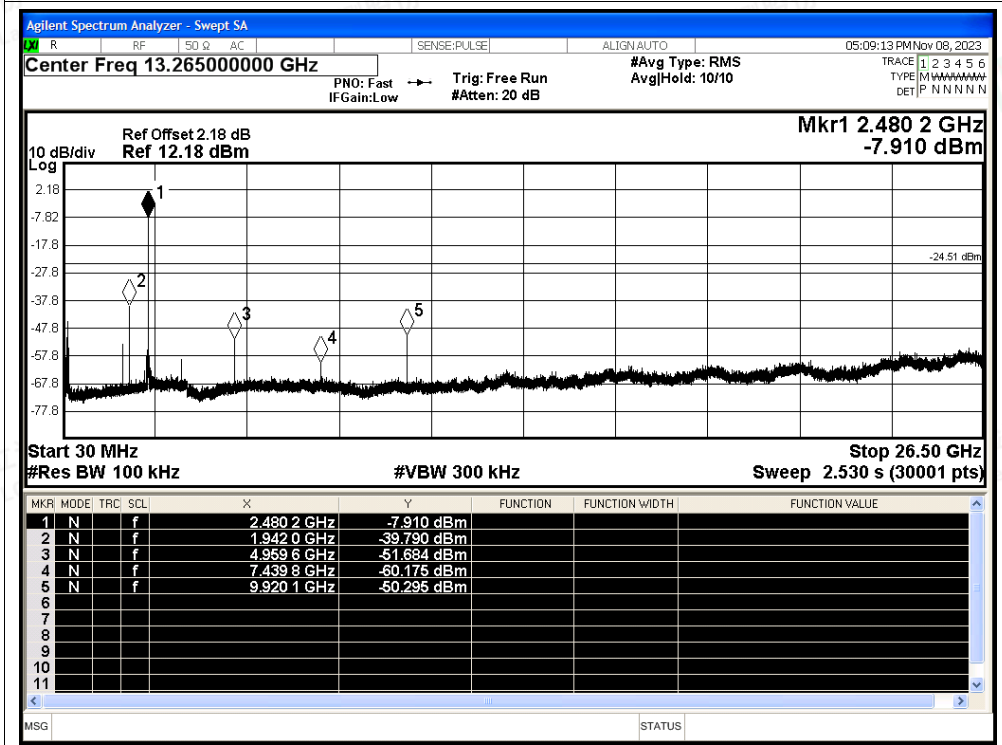




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.8	2	46.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.79	2	39.47	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.68	-43.21	2	54.05	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.064	-50.29	2	46.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.59	2	47.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-55.64	2	41.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.2	2	48.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.61	2	41.65	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.632	-45.81	2	51.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.61	2	41.65	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.46	2	47.8	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-55.91	2	41.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.93	2	46.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.66	2	39.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.448	-44.93	2	52.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.064	-51.61	2	45.65	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.48	2	48.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-55.67	2	41.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.93	2	48.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.57	2	41.69	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2497.552	-46.11	2	51.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.57	2	41.69	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.63	2	47.63	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-55.9	2	41.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.77	2	45.49	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.83	2	39.43	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.16	-44.2	2	53.06	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.064	-51.67	2	45.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.09	2	48.17	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-55.57	2	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.34	2	47.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.59	2	41.67	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.072	-46.04	2	51.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.59	2	41.67	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.84	2	48.42	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-55.85	2	41.41	Average	54	Pass

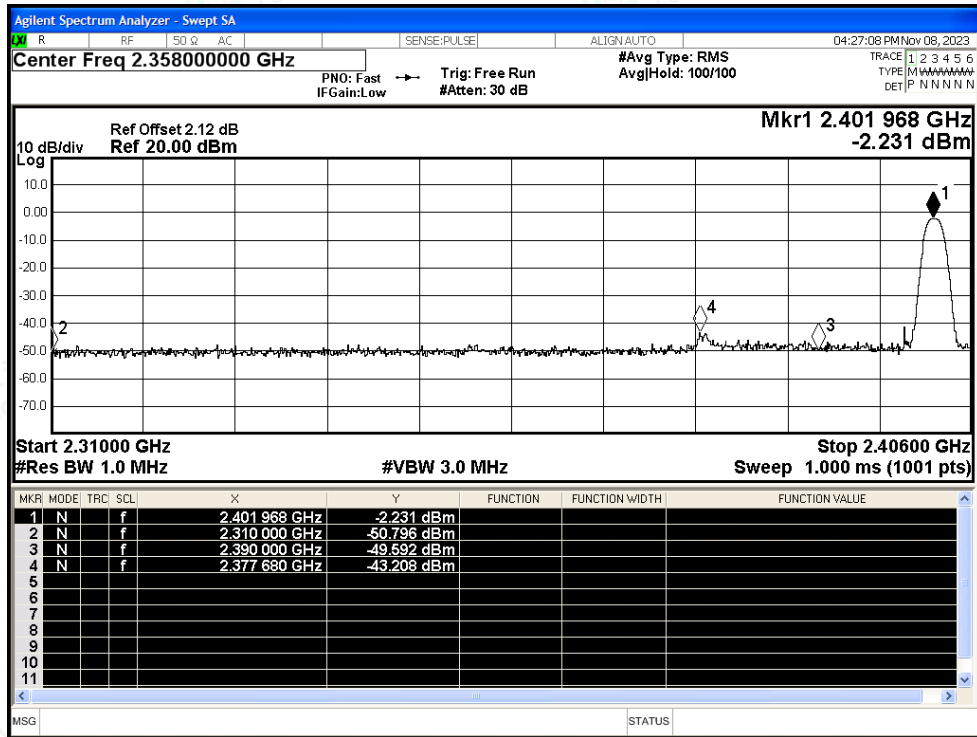


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 Scan code to check authenticity

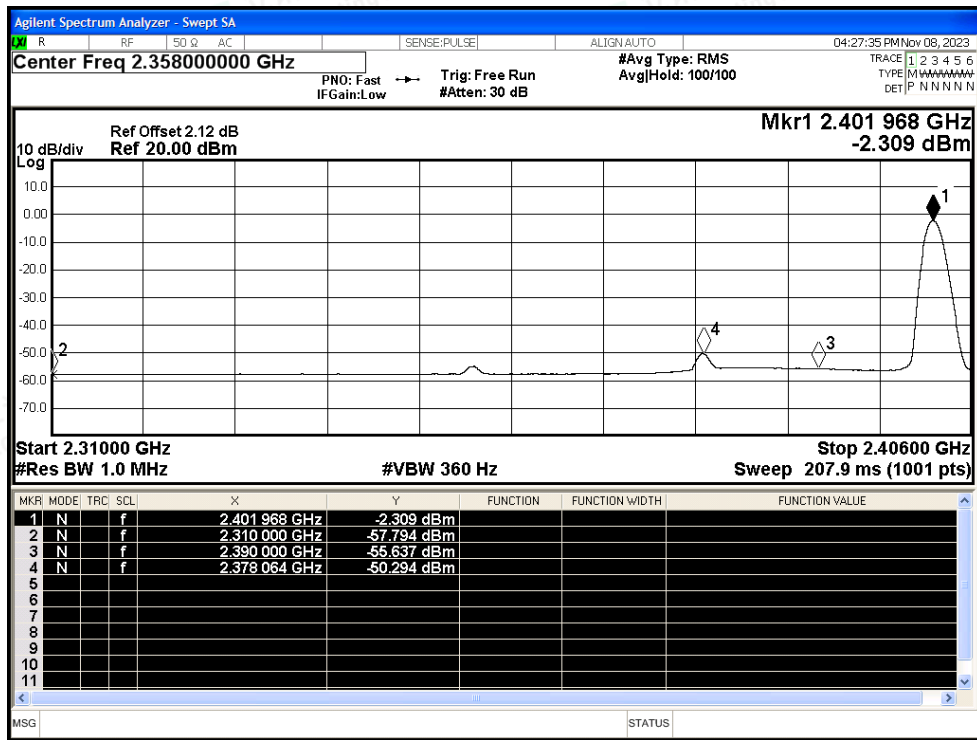


Test Graphs

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

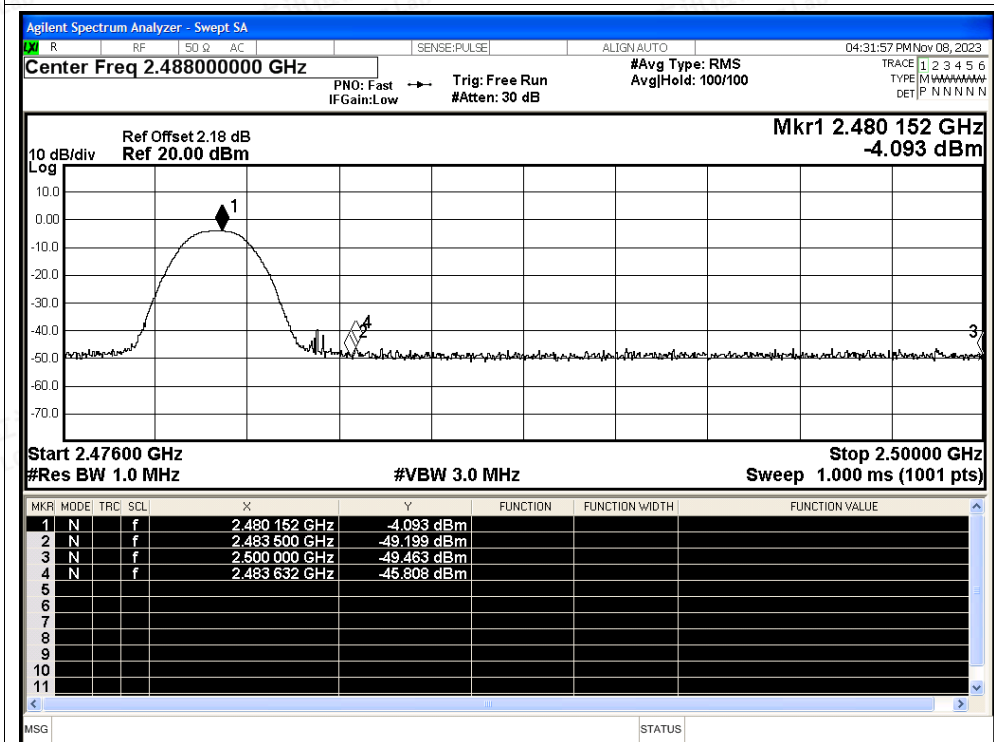


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

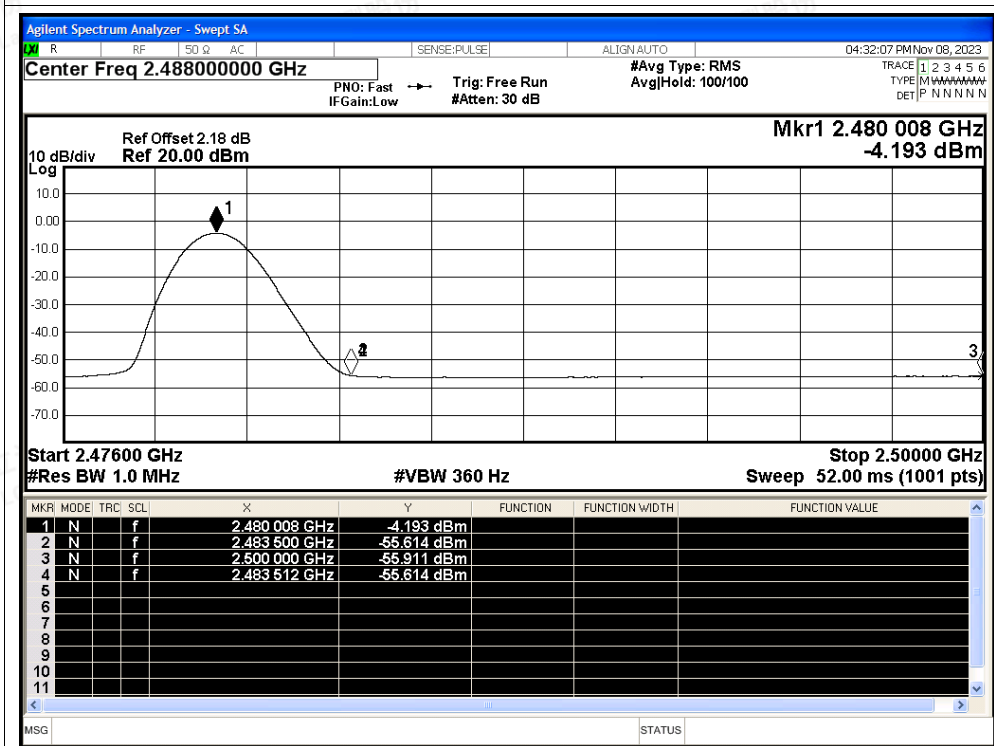




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

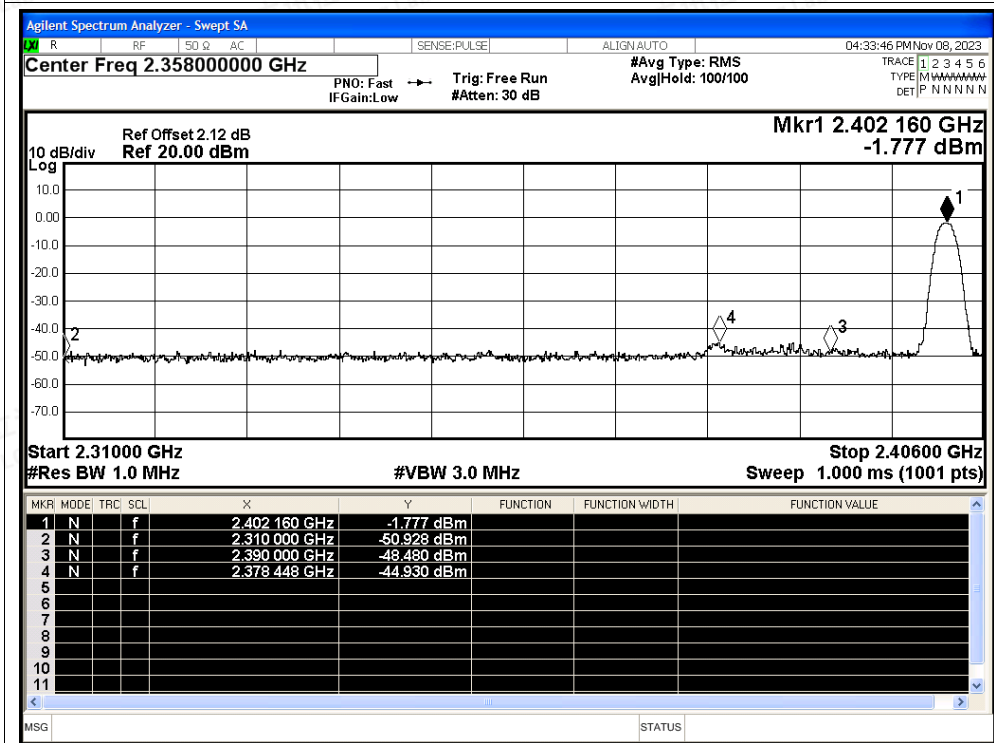


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

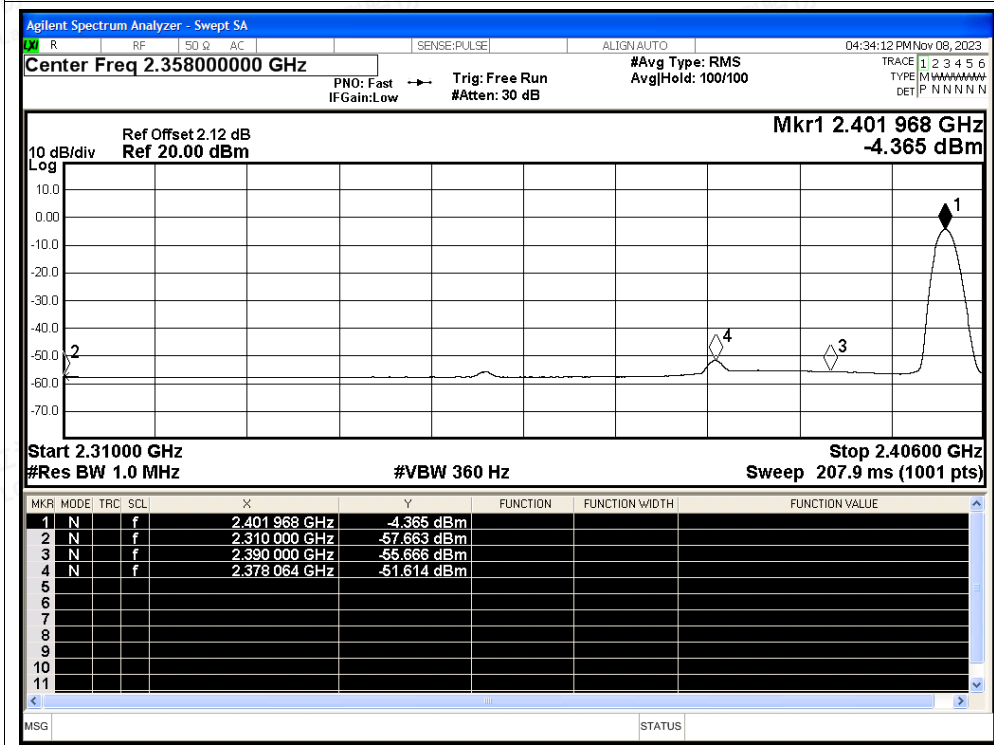




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

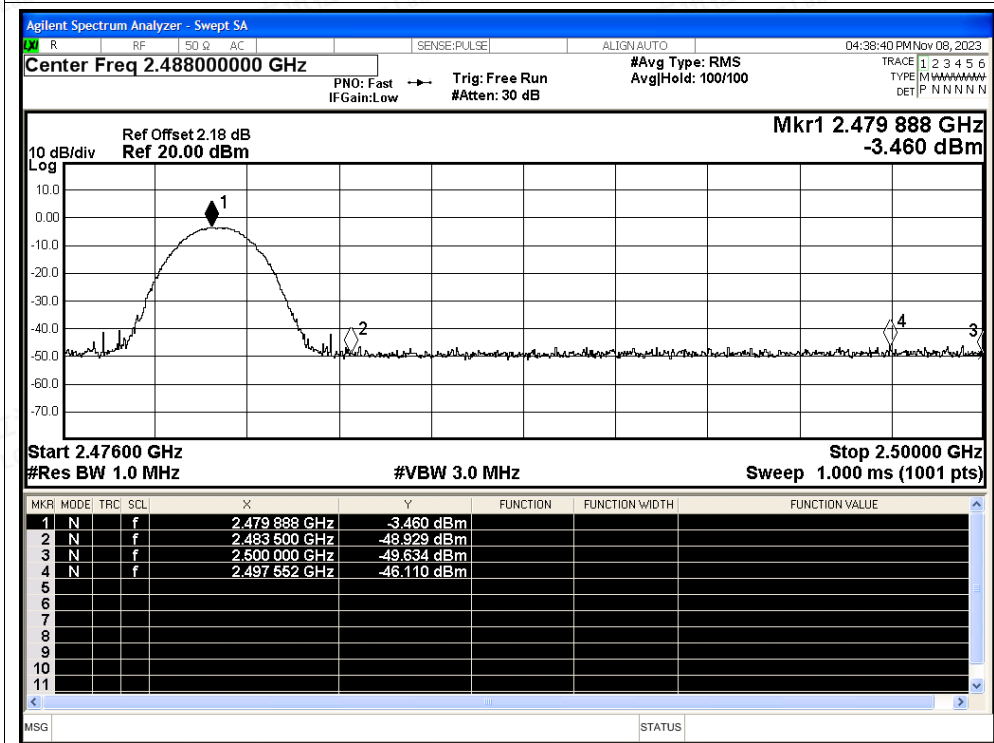


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

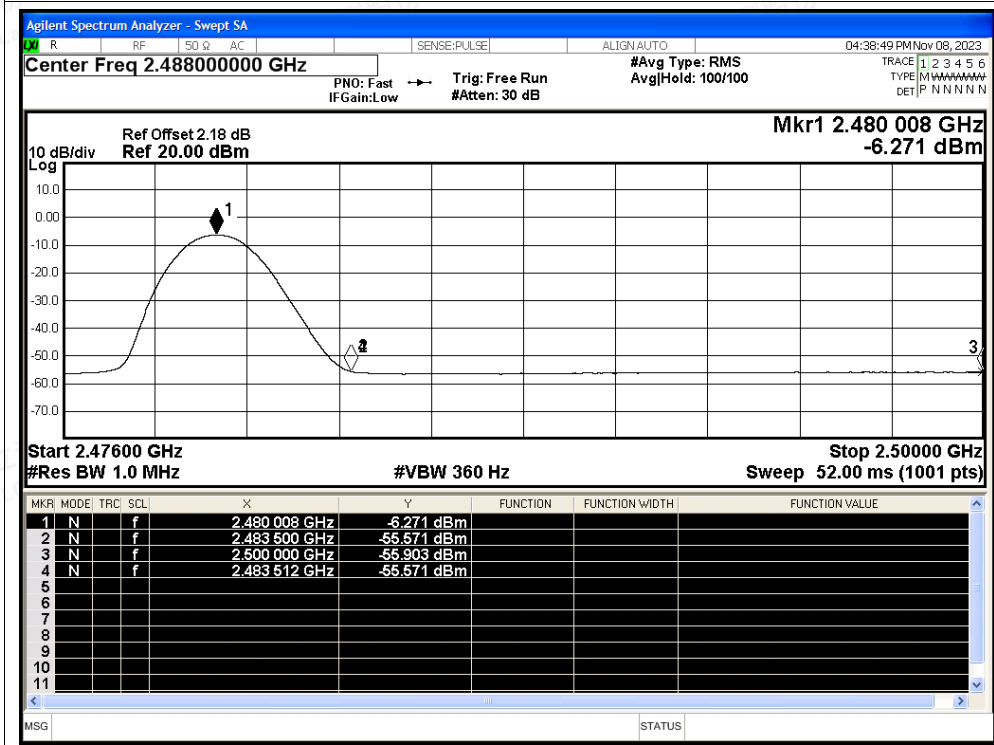




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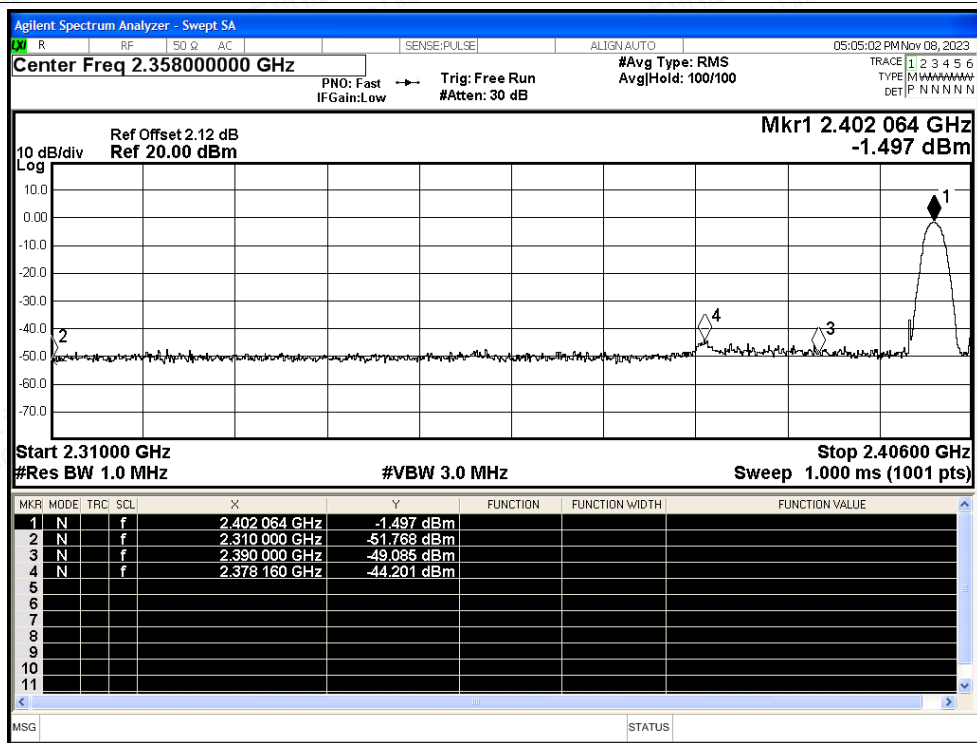


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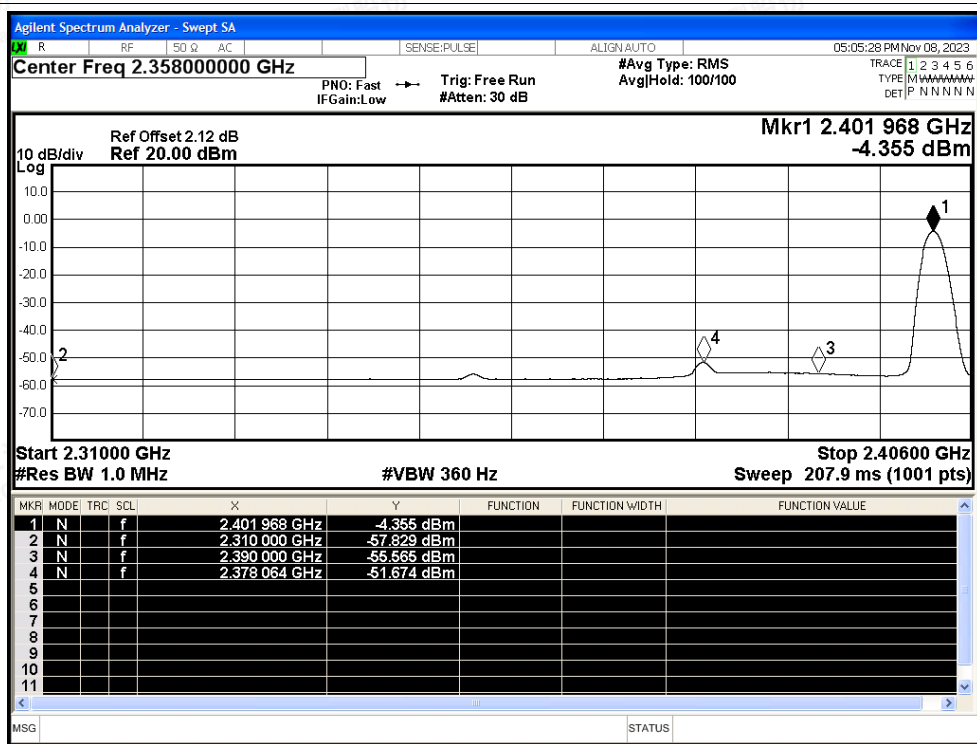




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

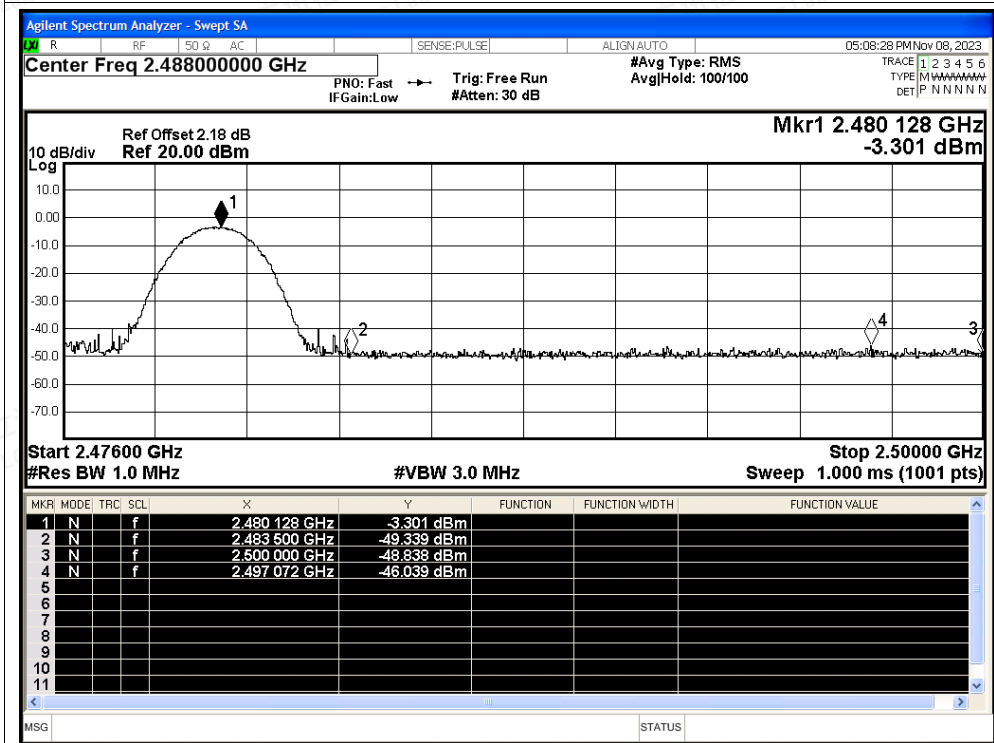


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

