



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mobile phone

Test Model: A09

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
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	Ant	0.936	N/A	Pass
NVNT	1-DH5	2441	Ant	0.949	N/A	Pass
NVNT	1-DH5	2480	Ant	0.953	N/A	Pass
NVNT	2-DH5	2402	Ant	1.292	N/A	Pass
NVNT	2-DH5	2441	Ant	1.287	N/A	Pass
NVNT	2-DH5	2480	Ant	1.283	N/A	Pass
NVNT	3-DH5	2402	Ant	1.289	N/A	Pass
NVNT	3-DH5	2441	Ant	1.277	N/A	Pass
NVNT	3-DH5	2480	Ant	1.303	N/A	Pass

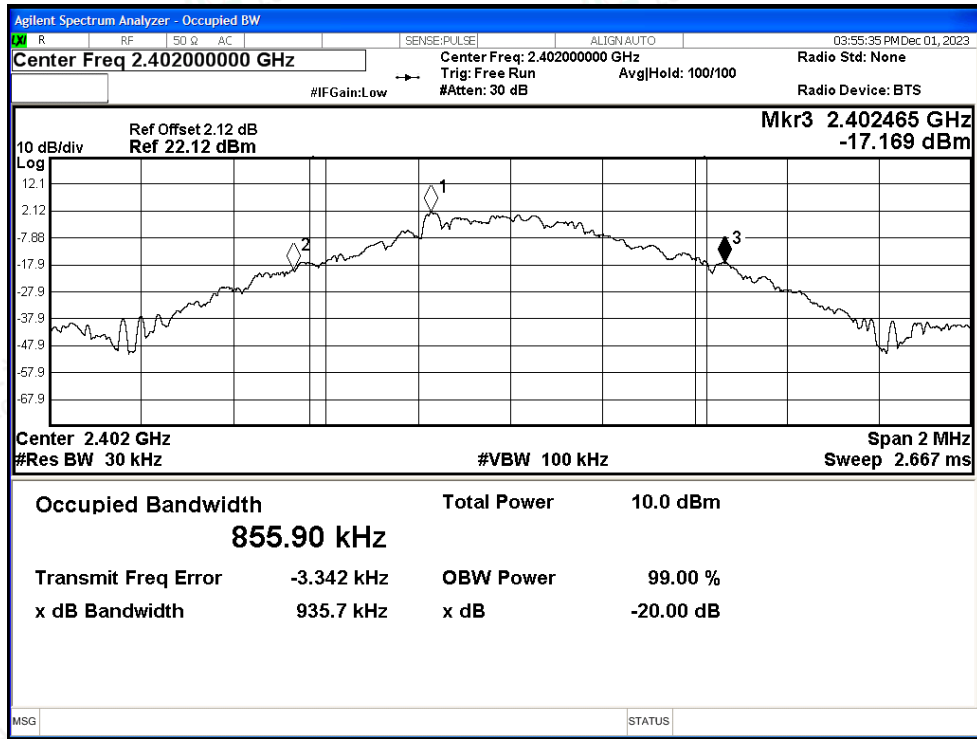


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

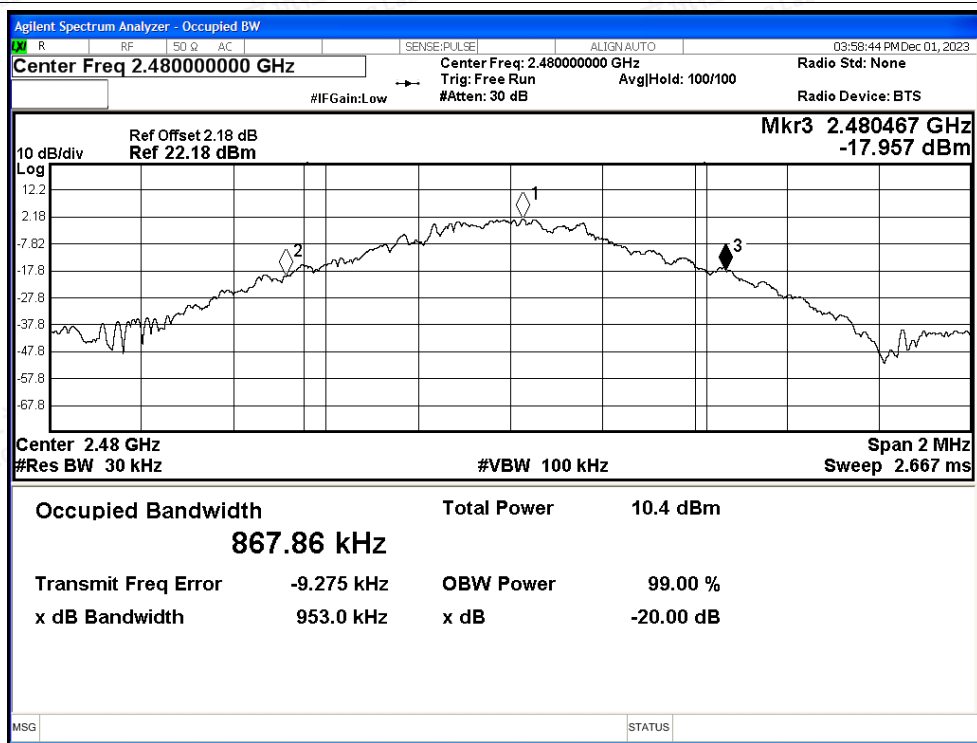


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

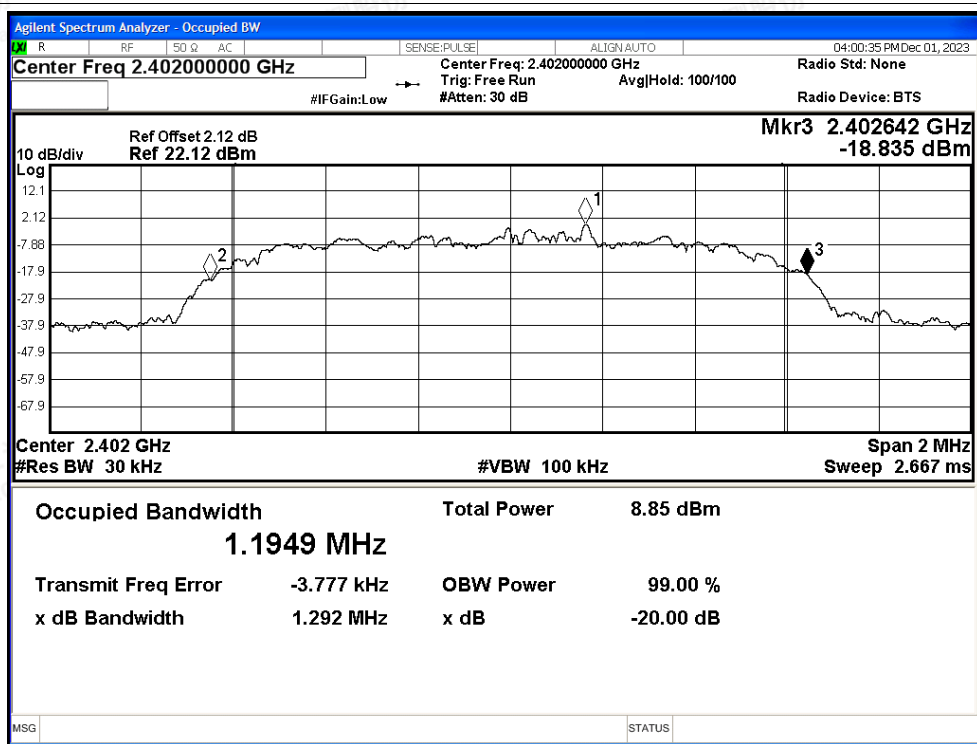




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

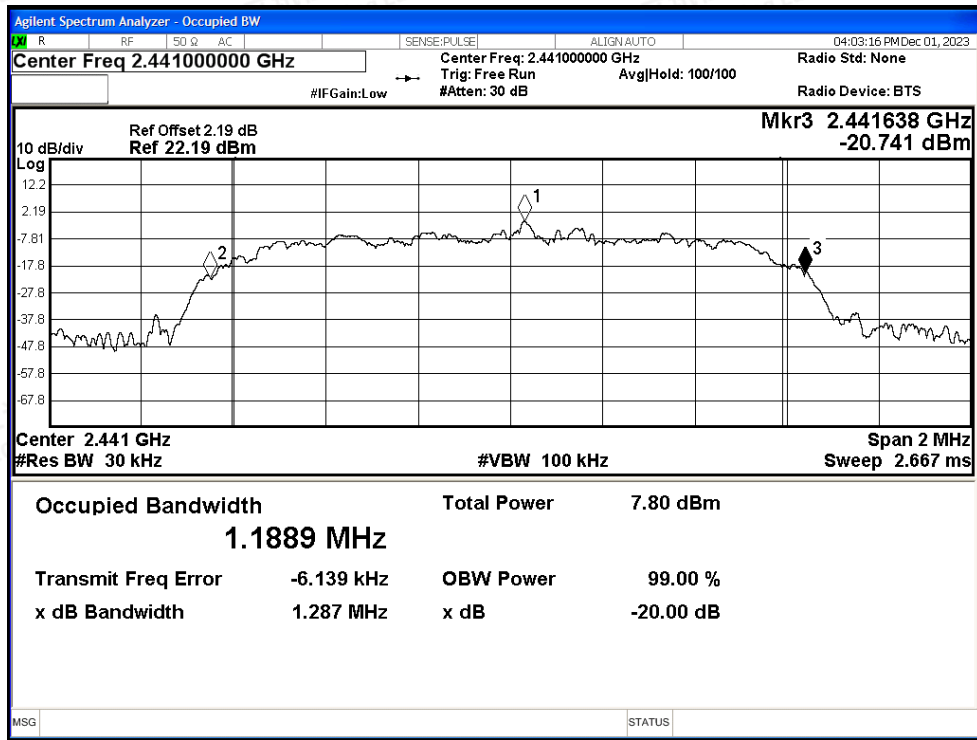


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

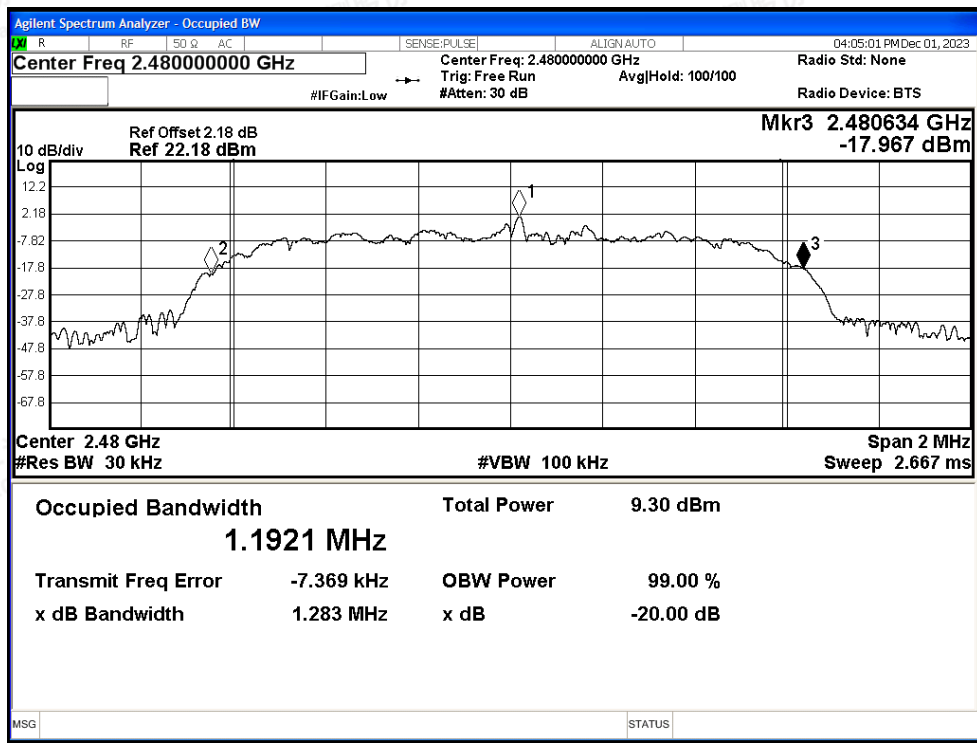




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

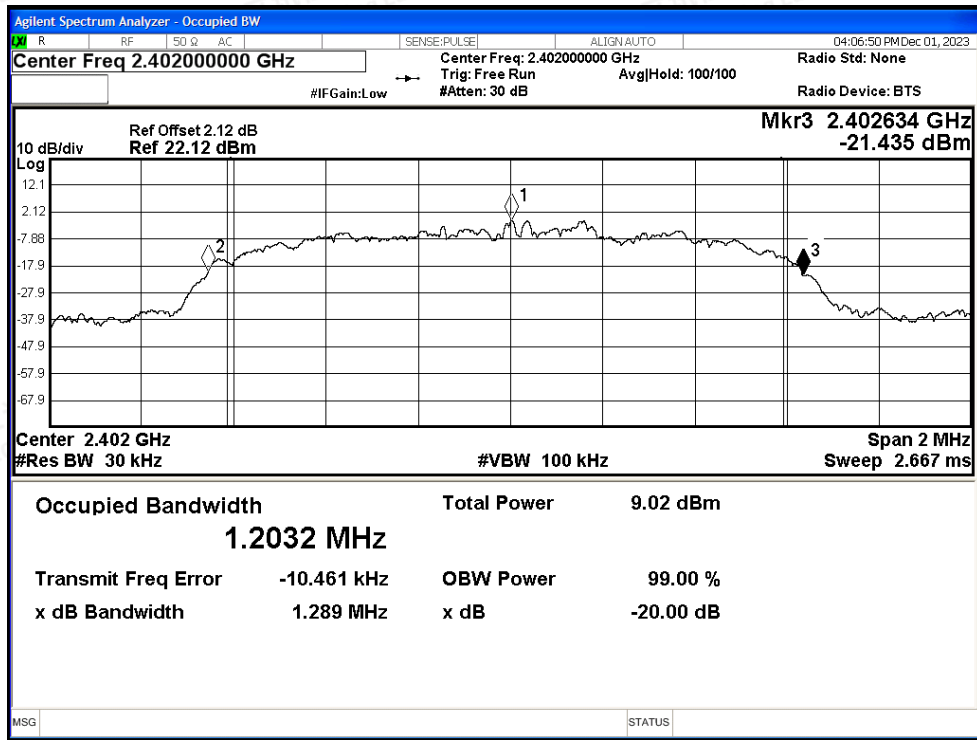


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

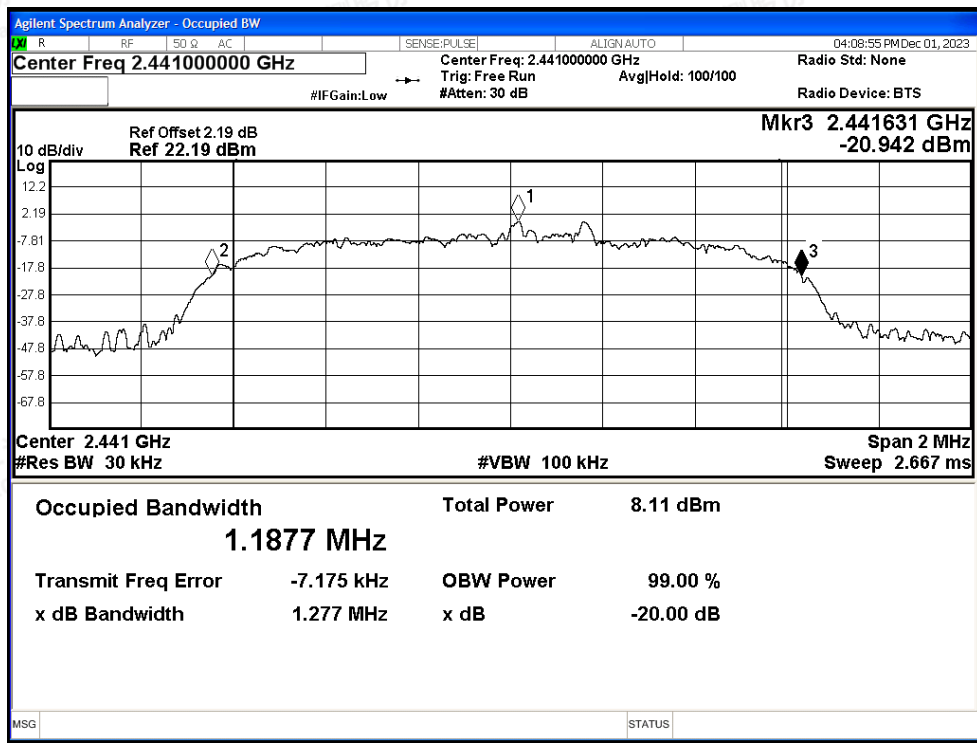




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant

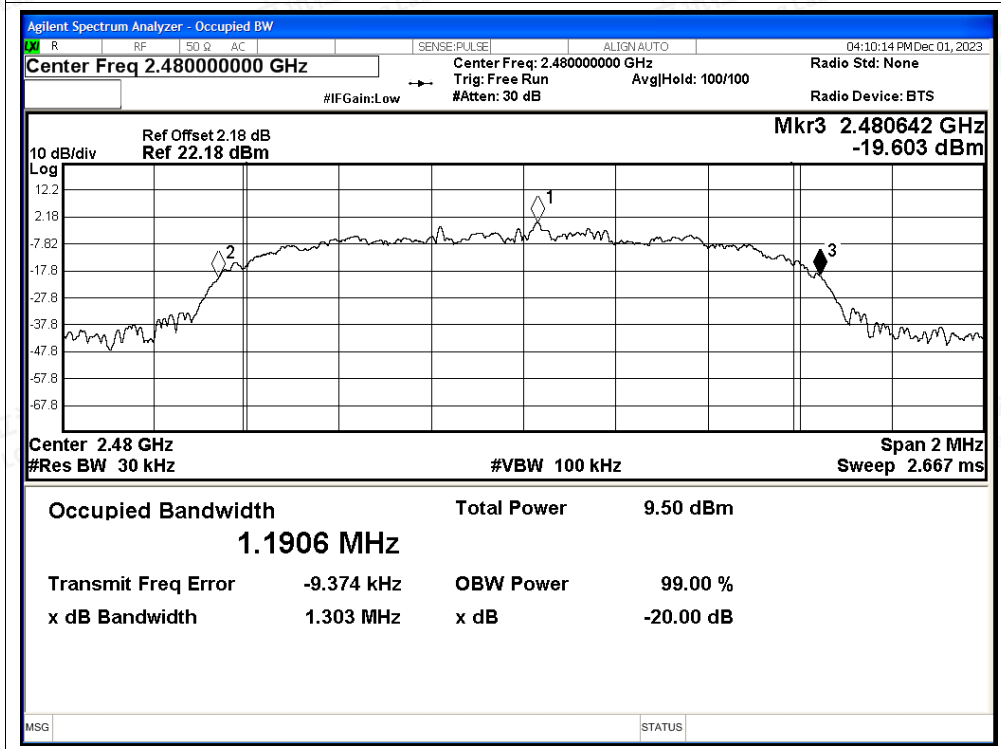


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	3.27	21	Pass
NVNT	1-DH5	2441	Ant	2.51	21	Pass
NVNT	1-DH5	2480	Ant	4.09	21	Pass
NVNT	2-DH5	2402	Ant	4.39	21	Pass
NVNT	2-DH5	2441	Ant	3.71	21	Pass
NVNT	2-DH5	2480	Ant	4.98	21	Pass
NVNT	3-DH5	2402	Ant	4.71	21	Pass
NVNT	3-DH5	2441	Ant	4.09	21	Pass
NVNT	3-DH5	2480	Ant	5.27	21	Pass

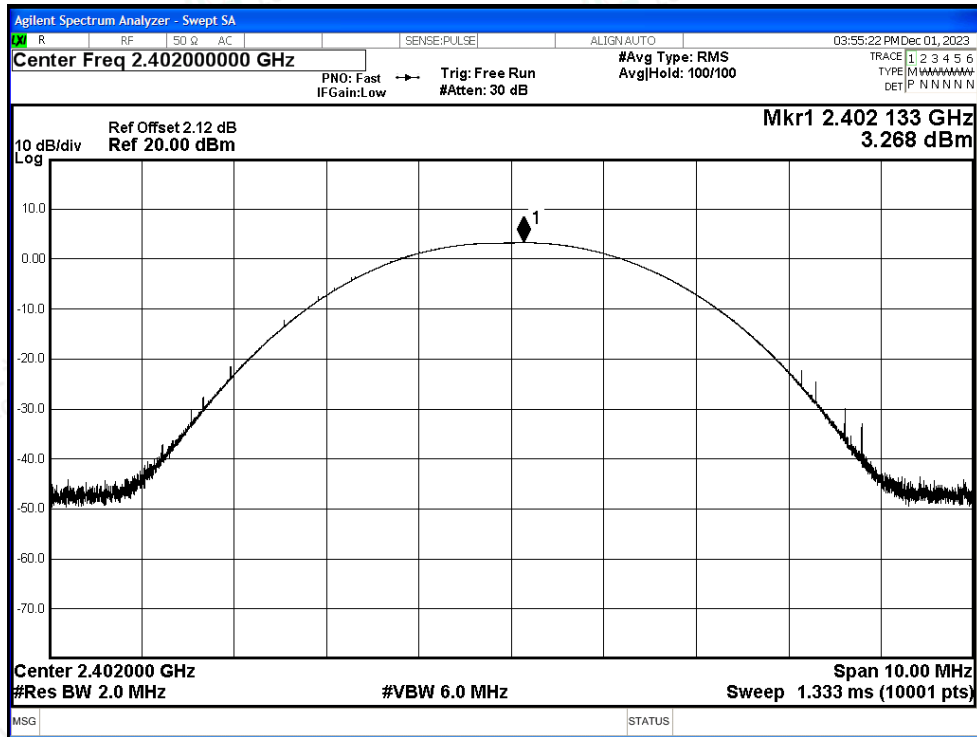


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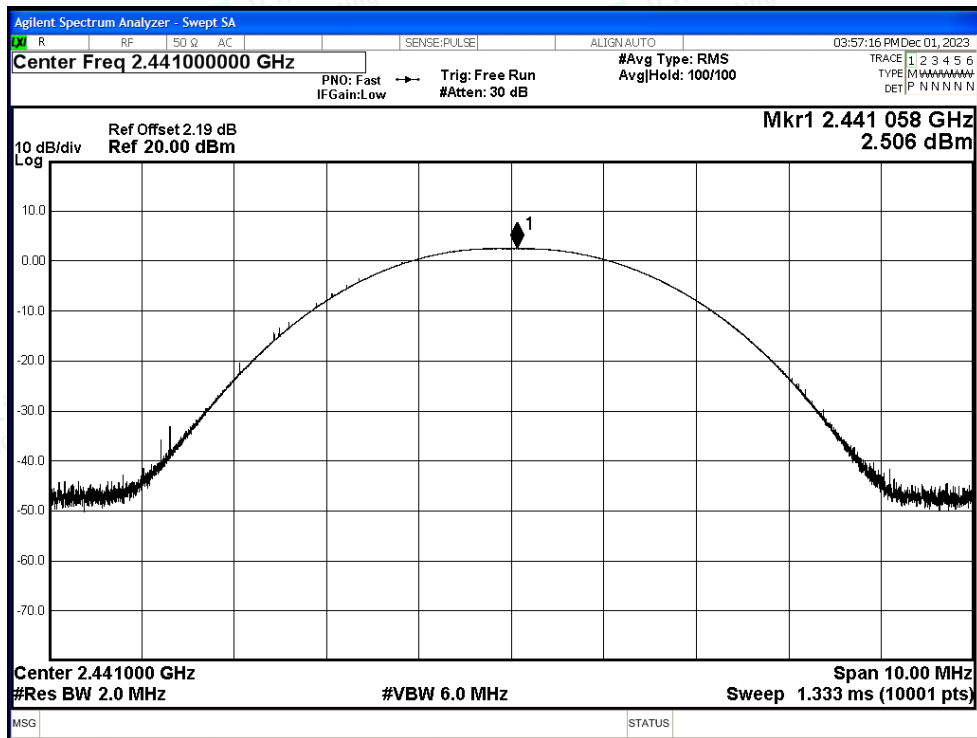


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

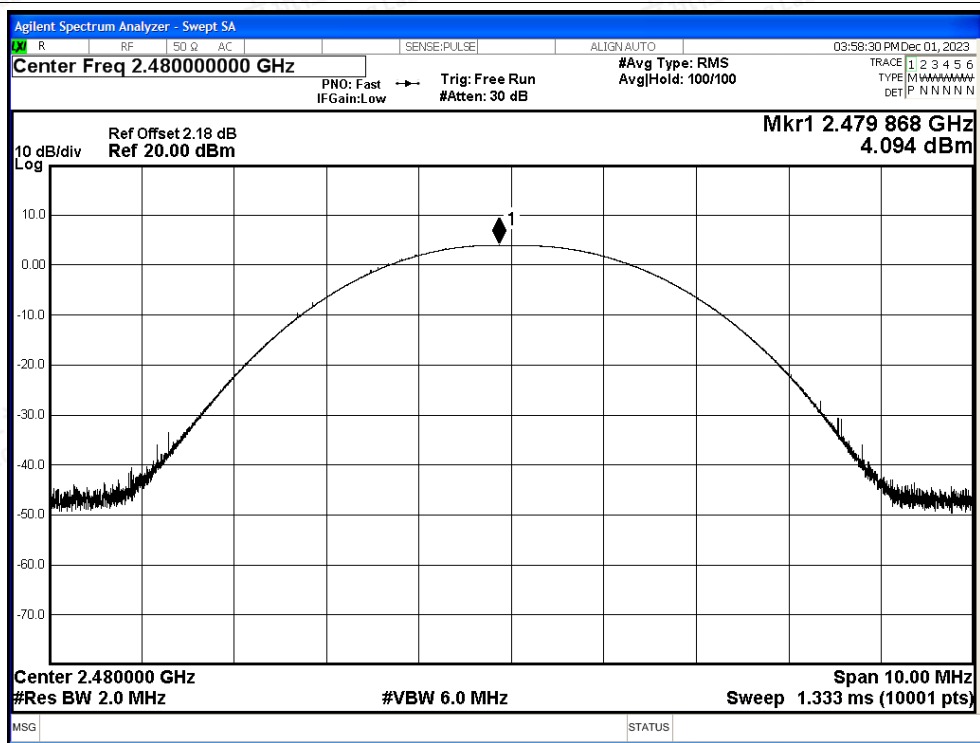


Power NVNT 1-DH5 2441MHz Ant

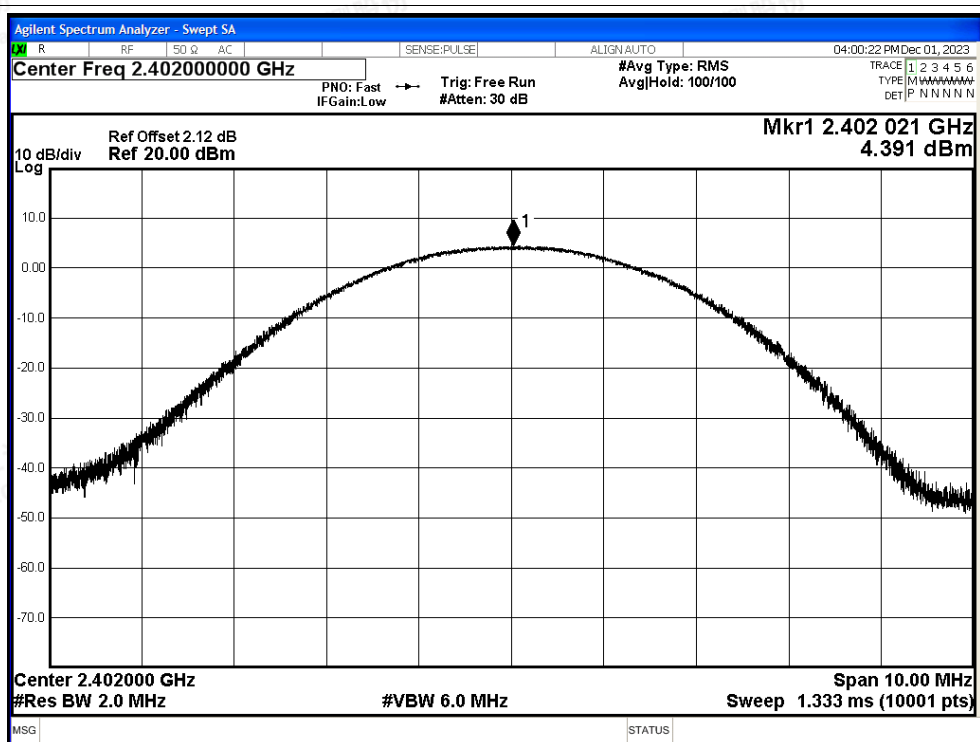




Power NVNT 1-DH5 2480MHz Ant

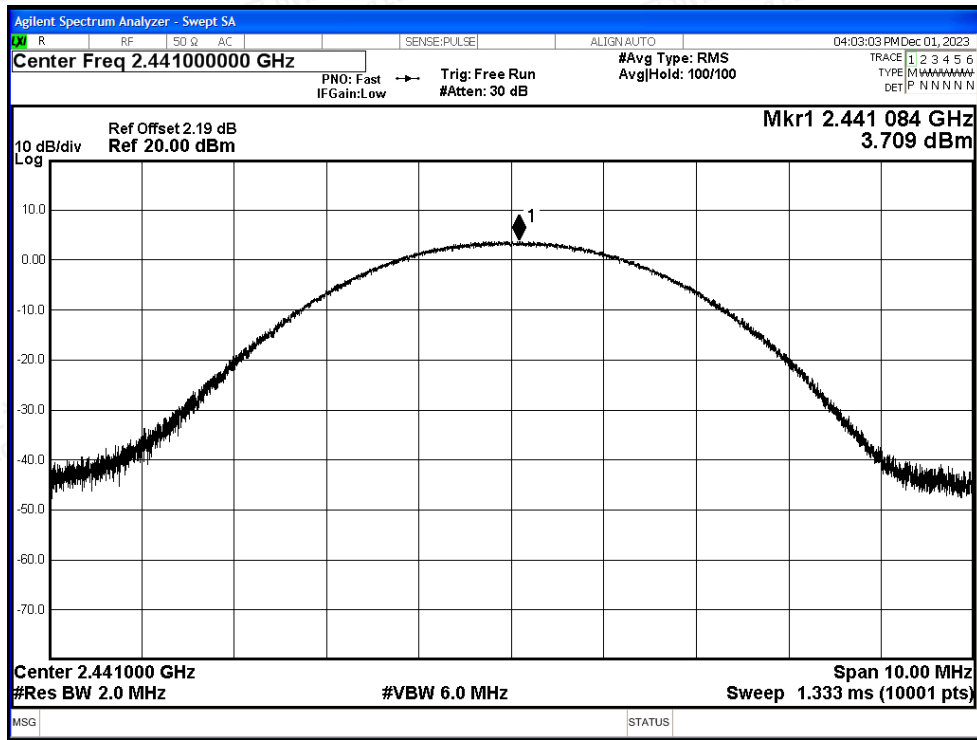


Power NVNT 2-DH5 2402MHz Ant

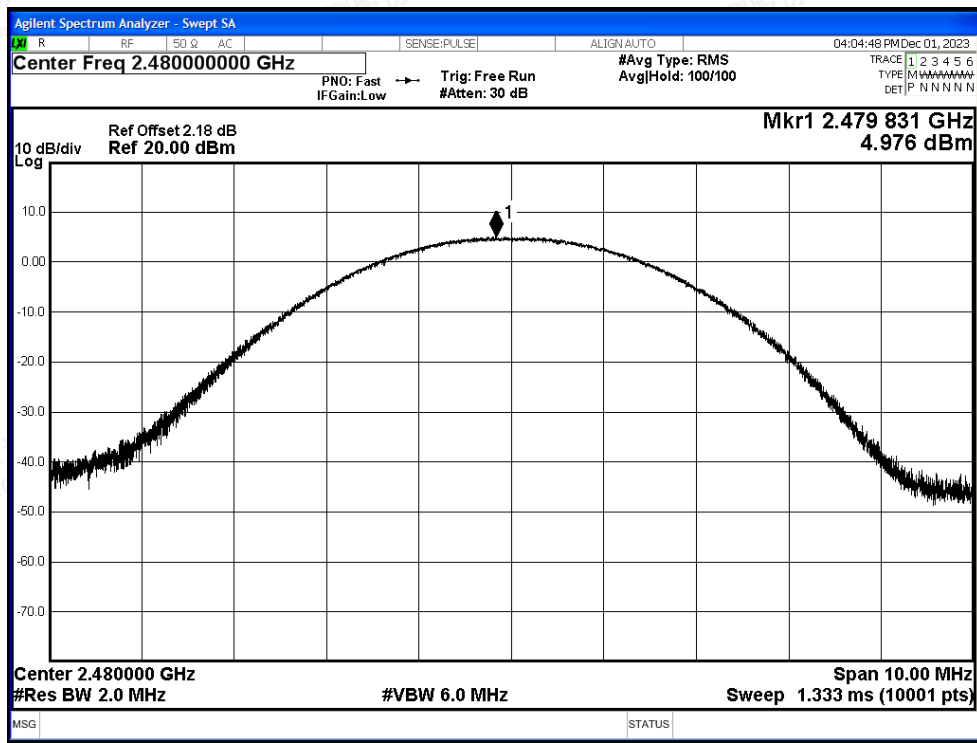




Power NVNT 2-DH5 2441MHz Ant

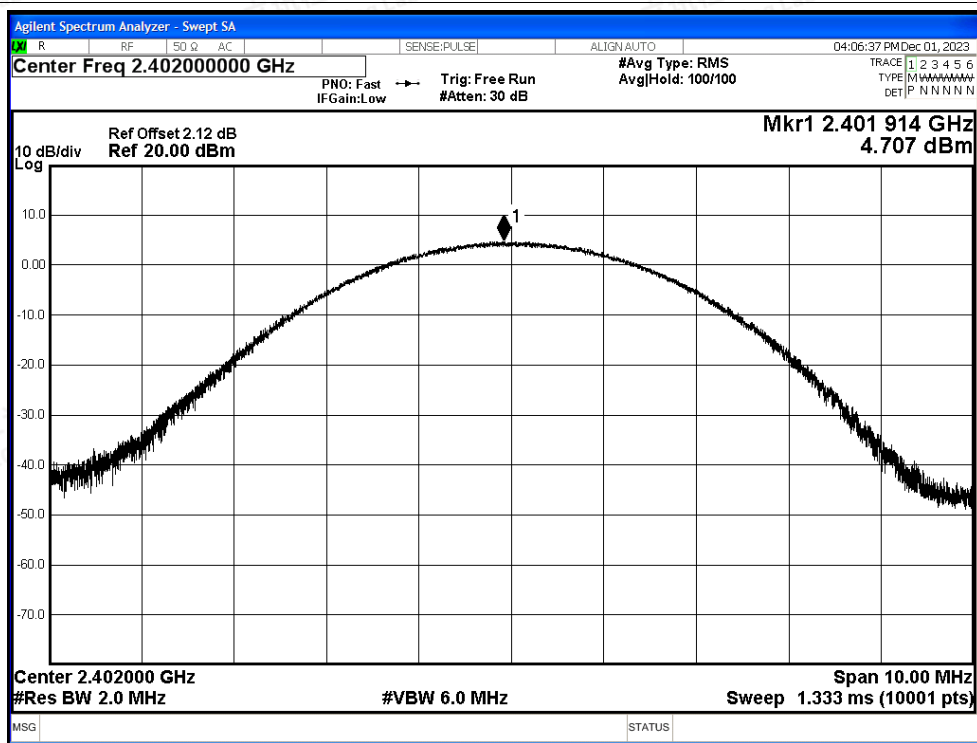


Power NVNT 2-DH5 2480MHz Ant

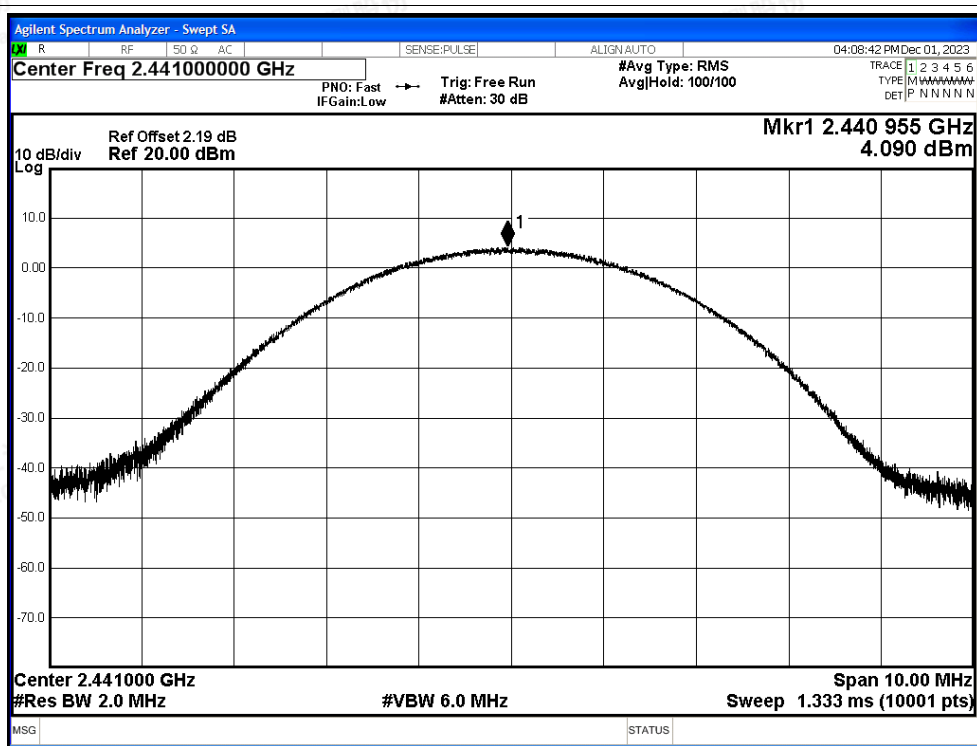




Power NVNT 3-DH5 2402MHz Ant

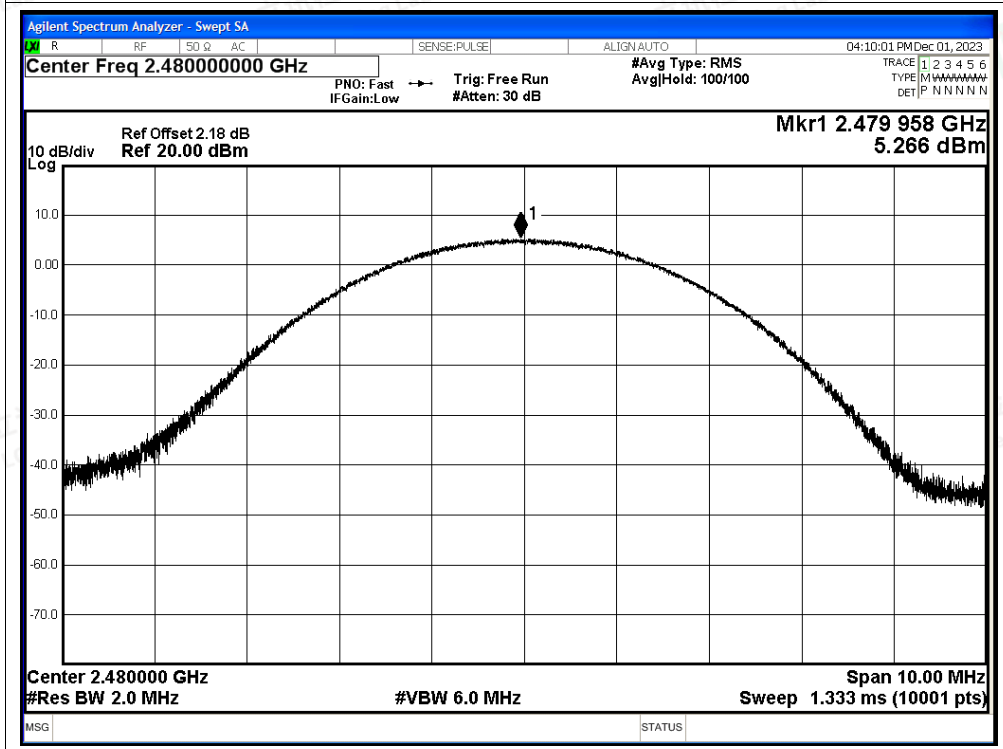


Power NVNT 3-DH5 2441MHz Ant





Power NVNT 3-DH5 2480MHz Ant





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.822	2402.83	1.008	0.635	Pass
NVNT	2-DH5	Ant	2402.022	2403.016	0.994	0.861	Pass
NVNT	3-DH5	Ant	2402.012	2403.016	1.004	0.869	Pass

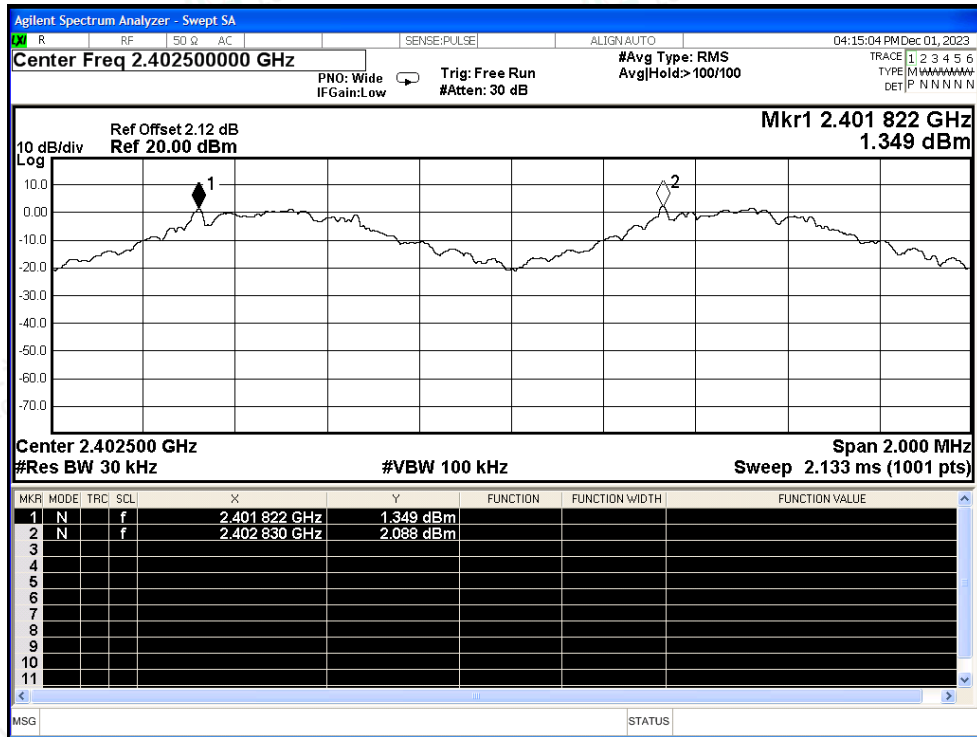


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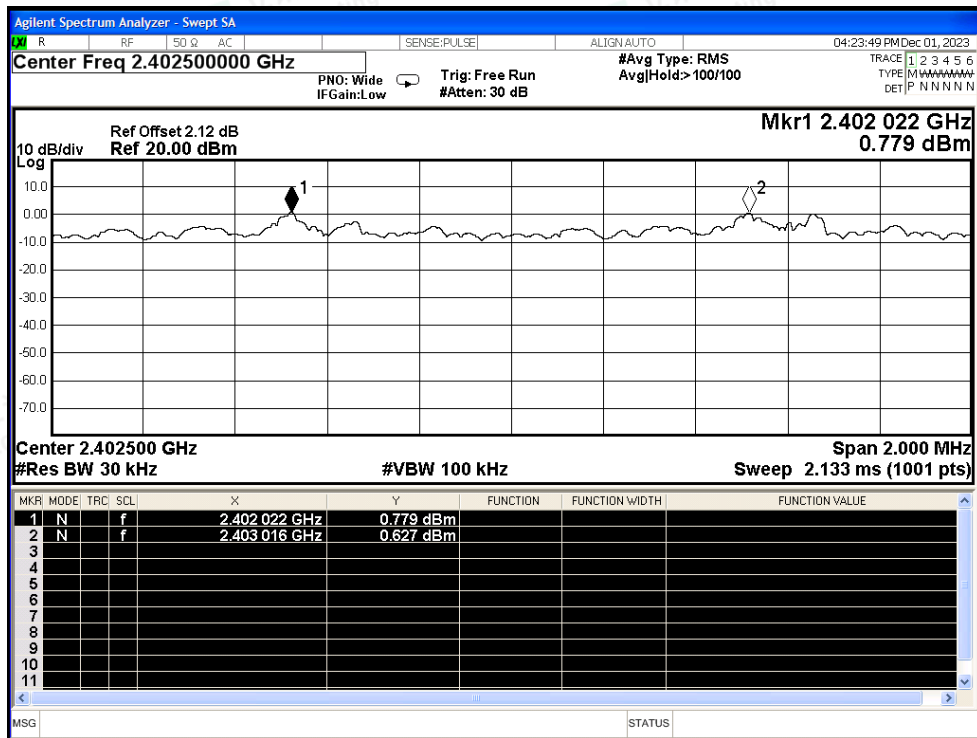


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant

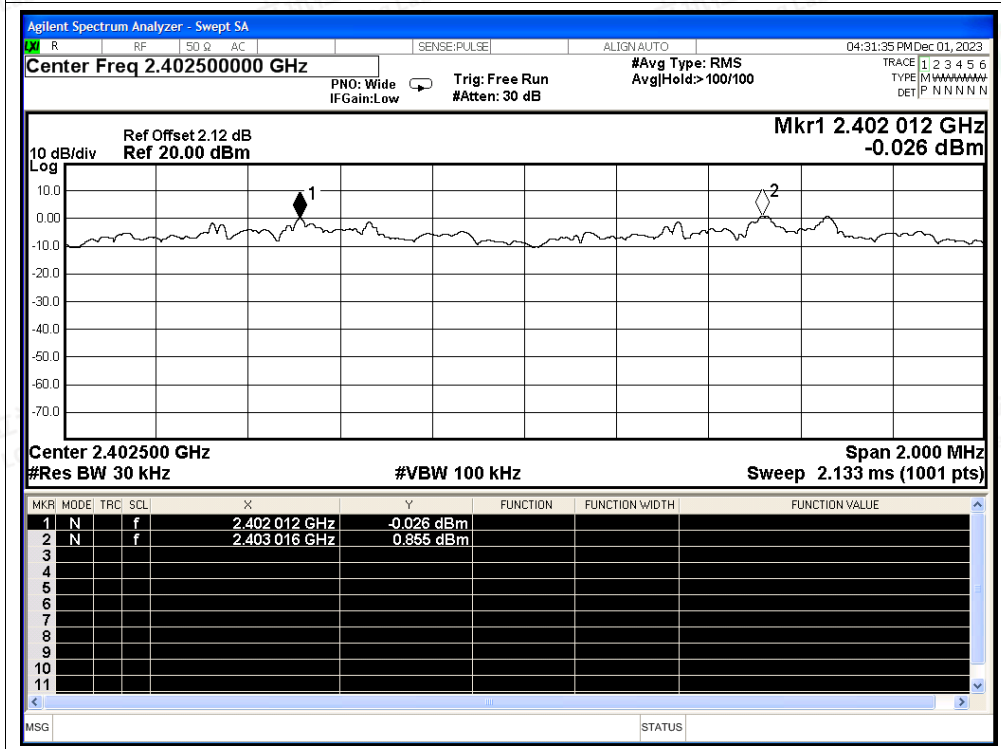


CFS NVNT 2-DH5 2402MHz Ant





CFS NVNT 3-DH5 2402MHz Ant





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	Ant	2.883	273.885	95	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.884	343.196	119	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.883	296.949	103	31600	400	Pass

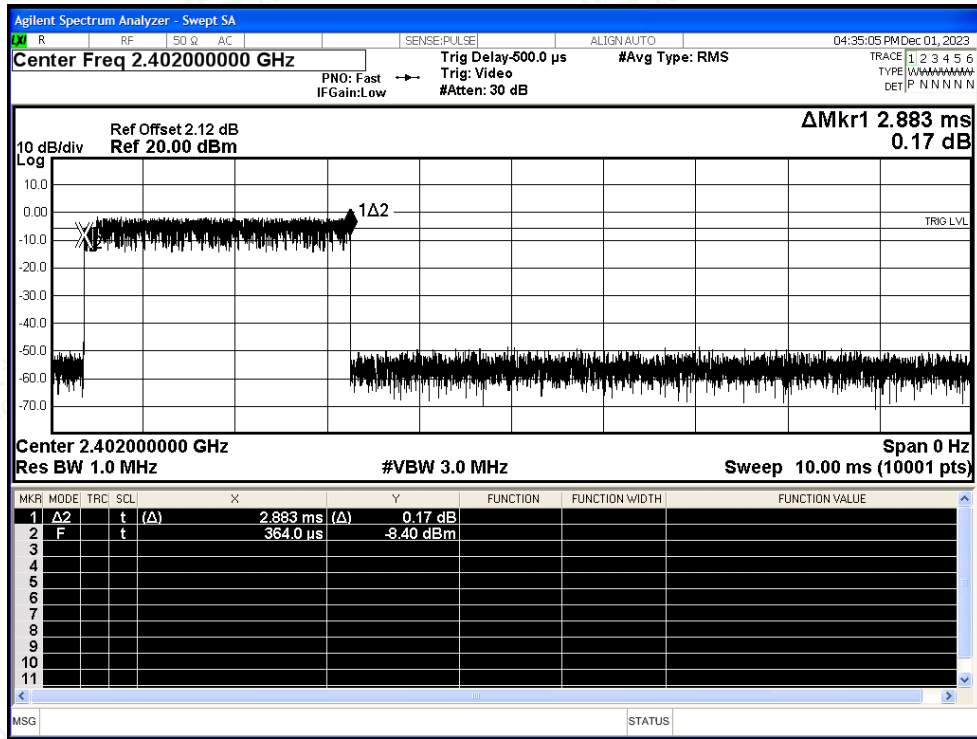


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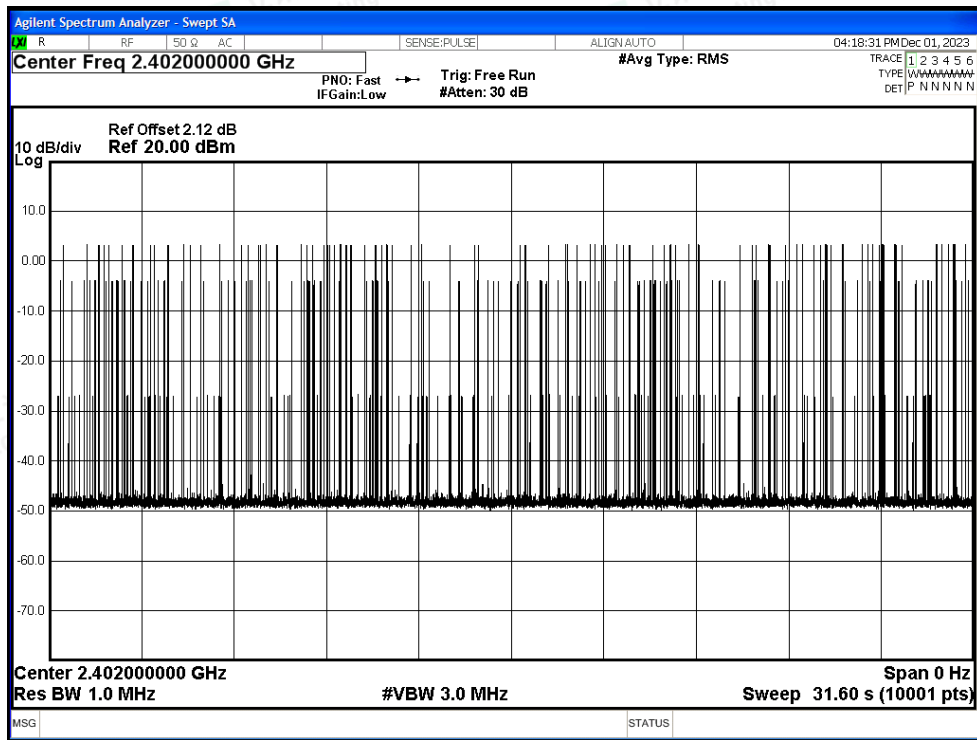


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst

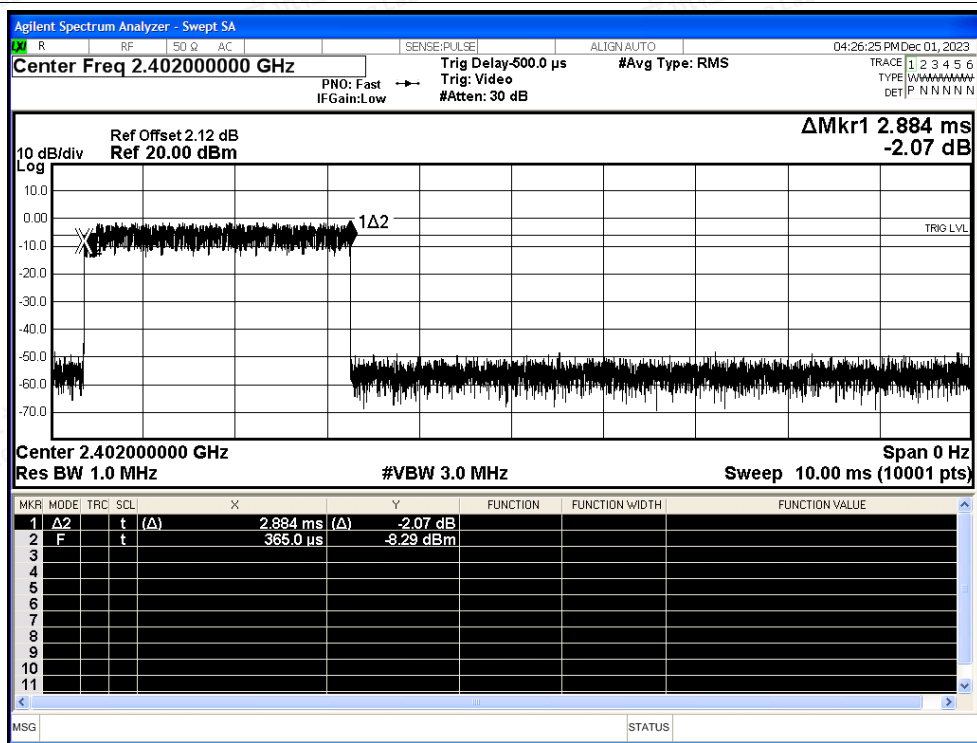


Dwell NVNT 1-DH5 2402MHz Ant Accumulated

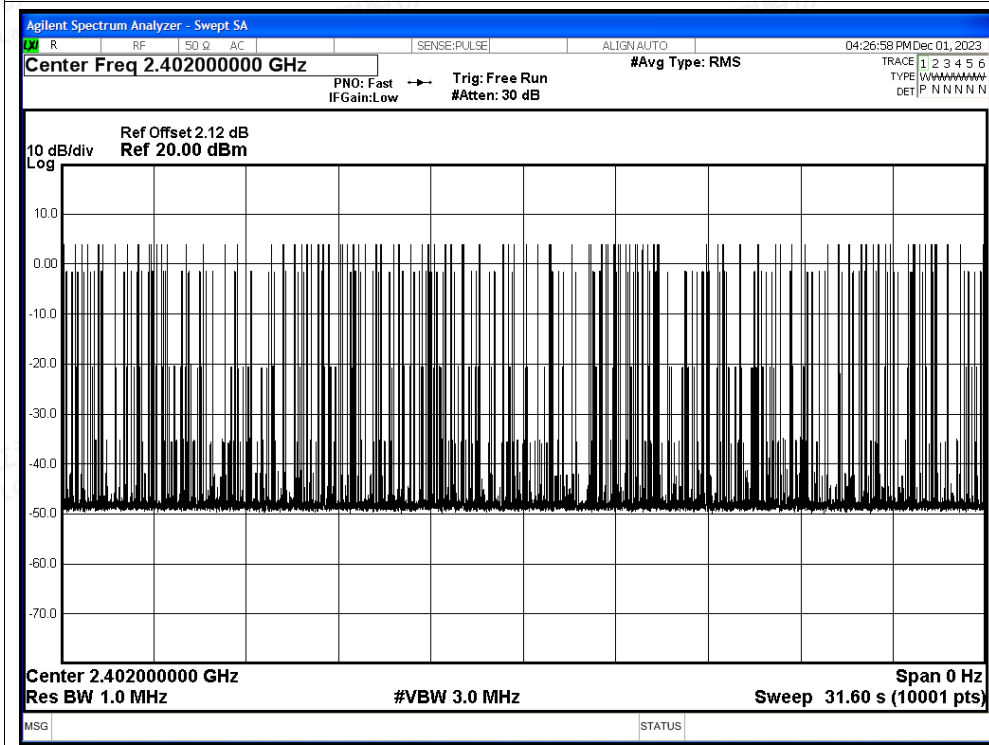




Dwell NVNT 2-DH5 2402MHz Ant One Burst

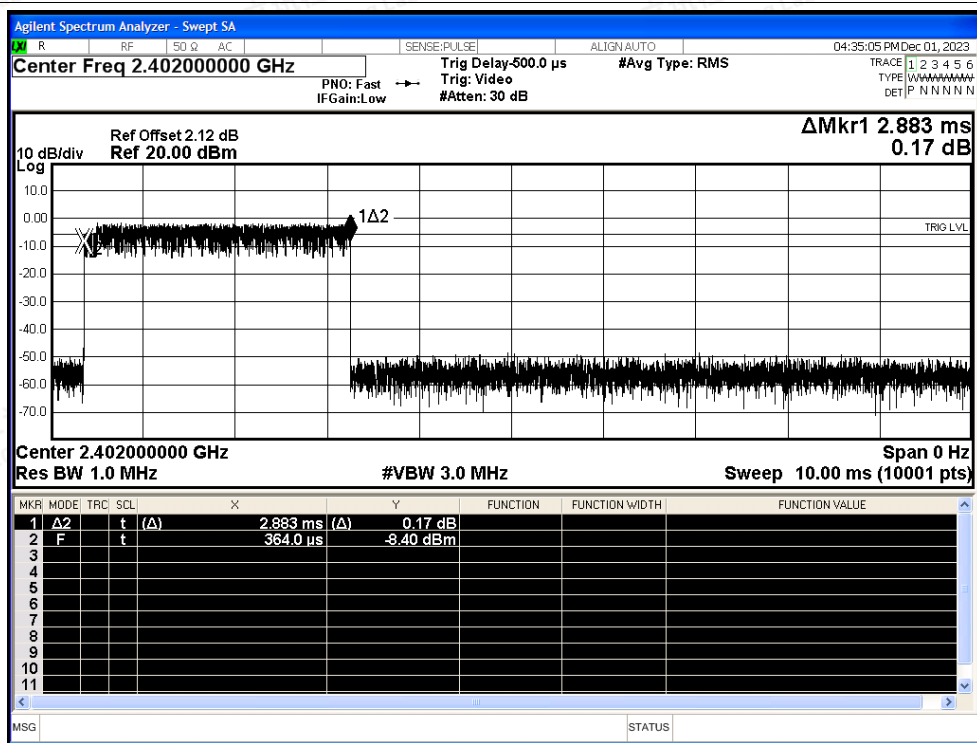


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

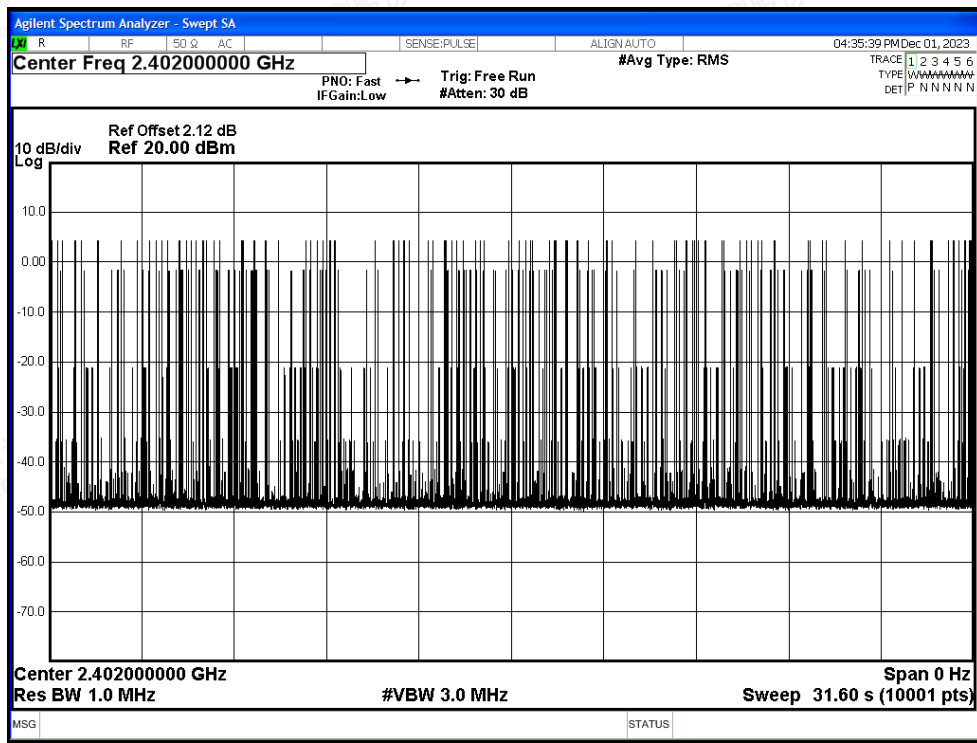




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

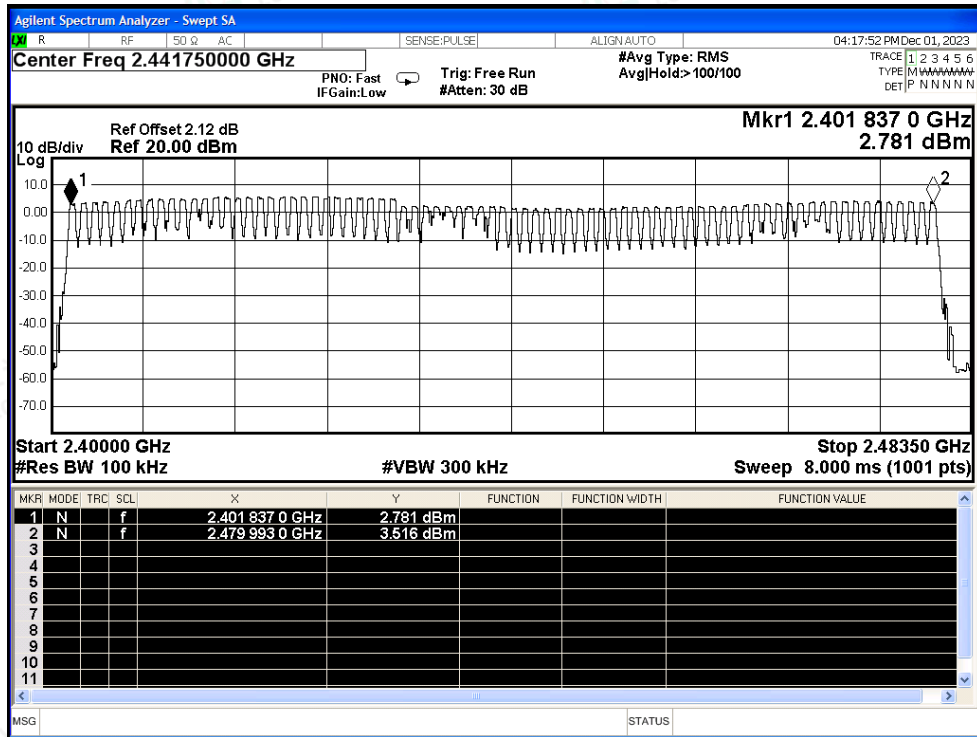
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



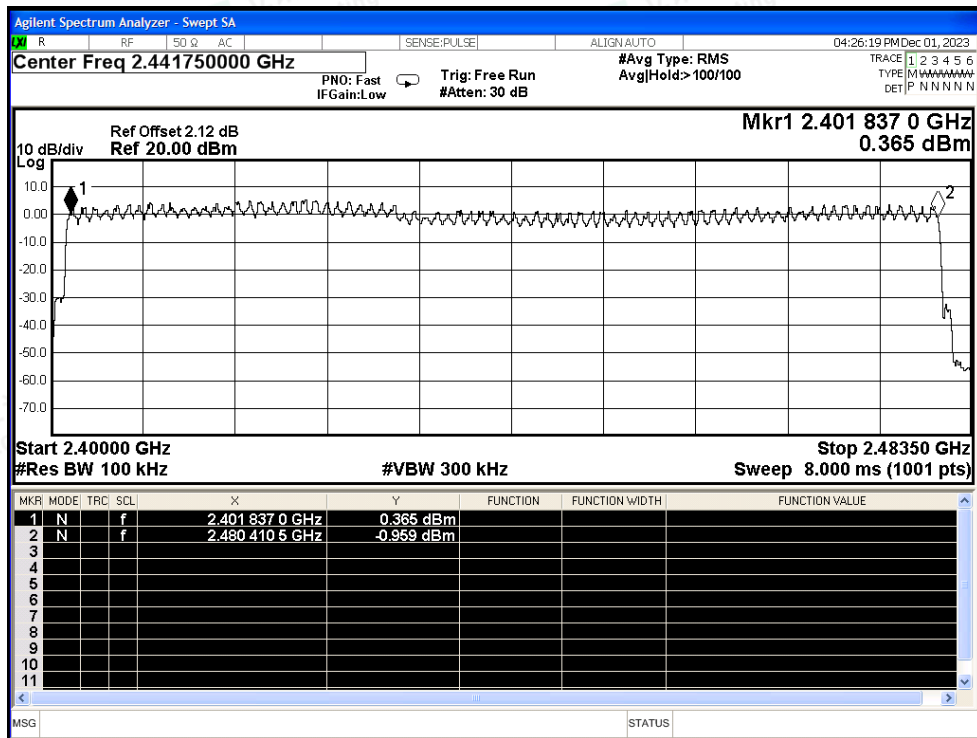


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant

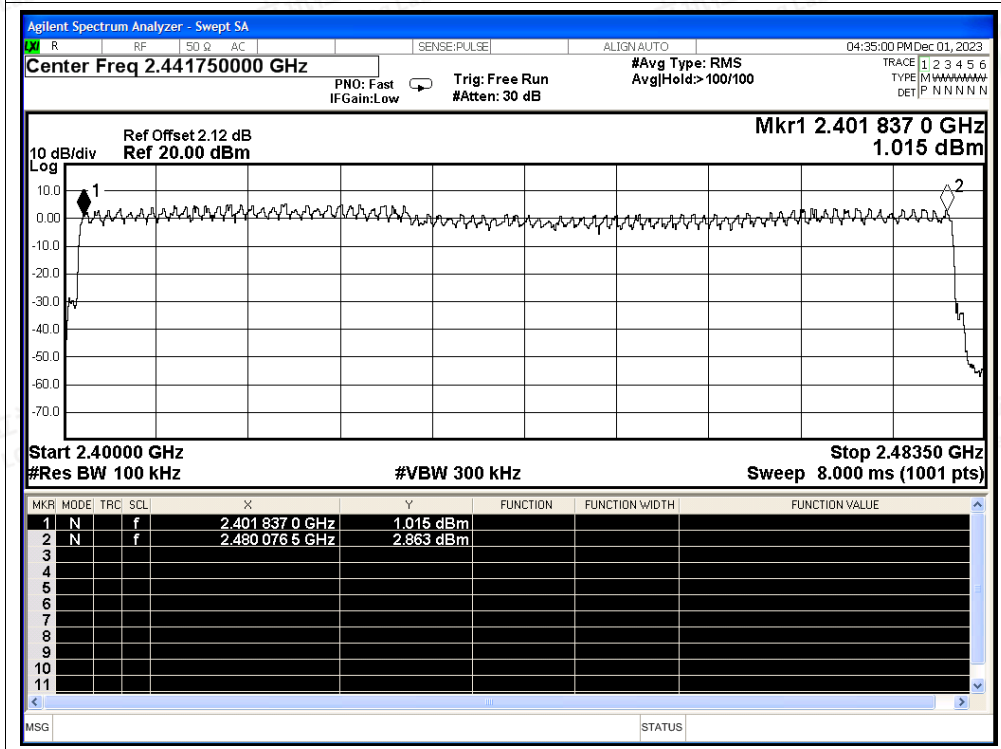


Hopping No. NVNT 2-DH5 2402MHz Ant





Hopping No. NVNT 3-DH5 2402MHz Ant





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-59.48	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-60.28	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-45.94	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-56.61	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-46.45	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-57.89	-20	Pass

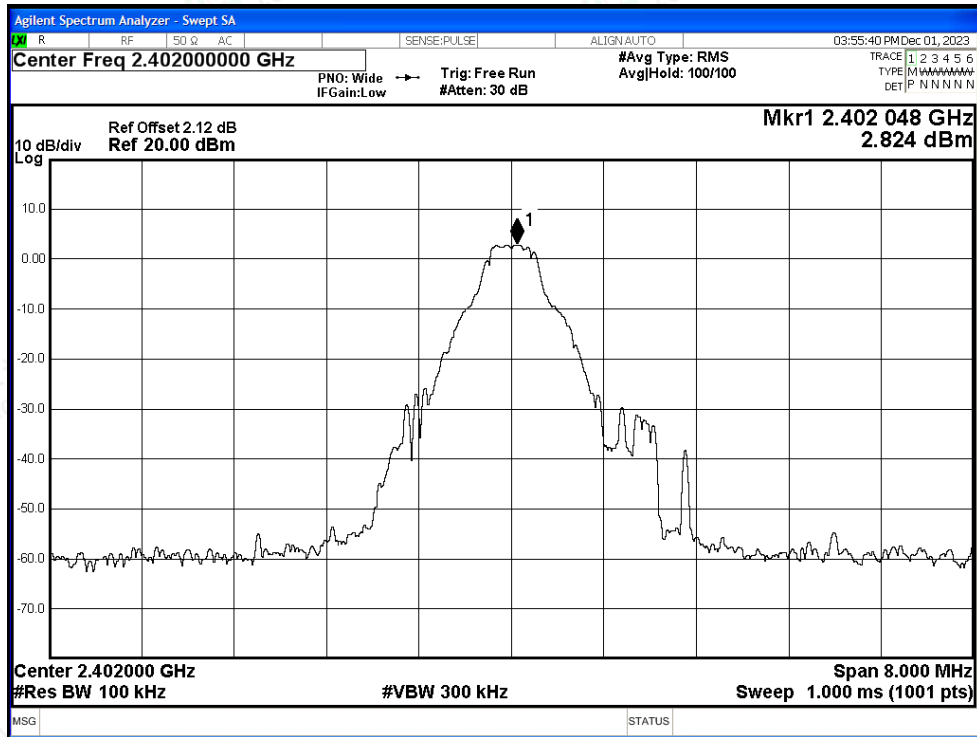


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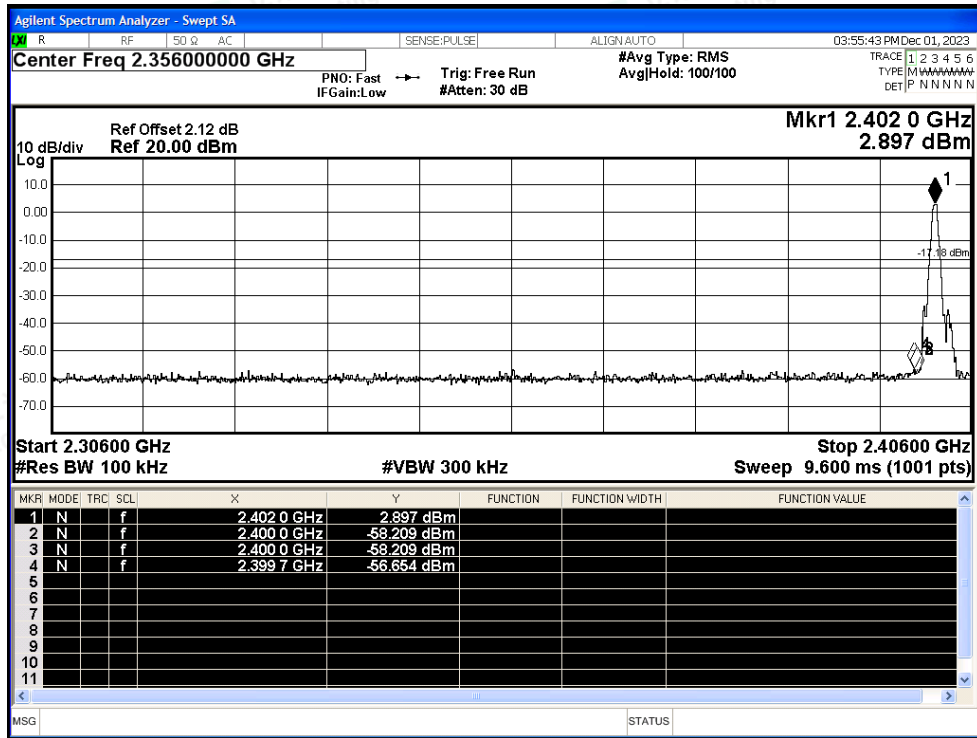


Test Graphs

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

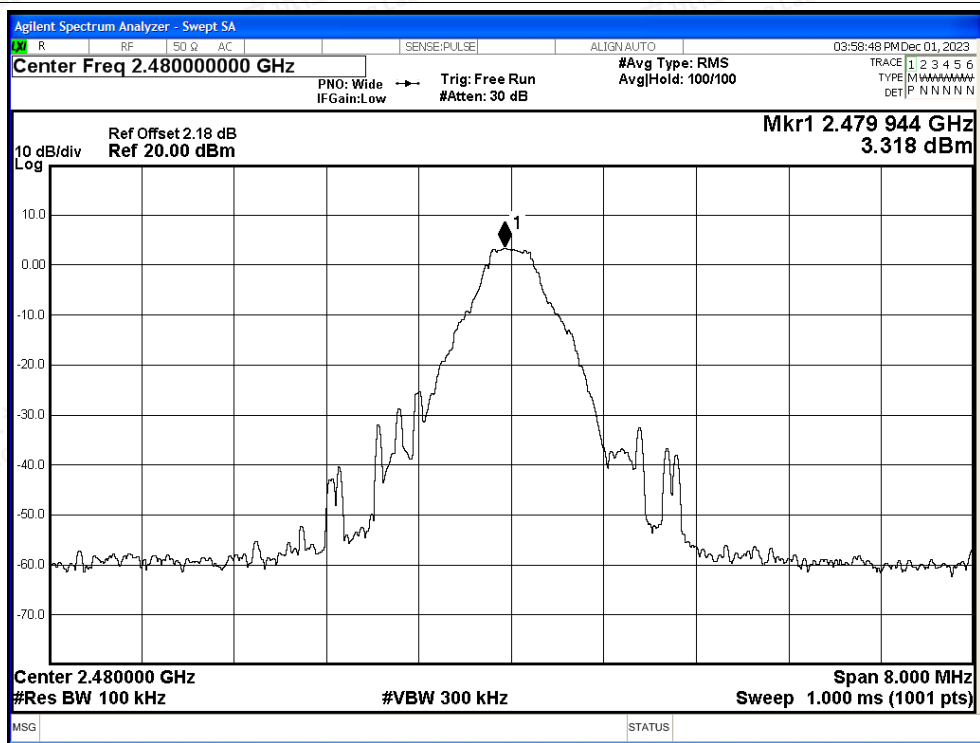


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

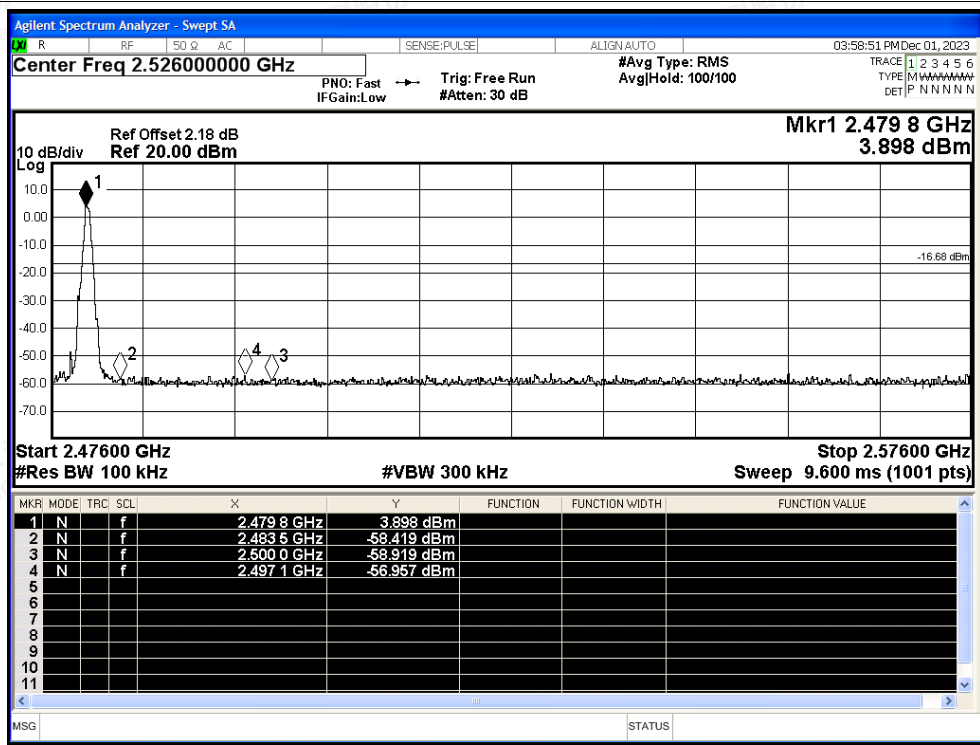




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

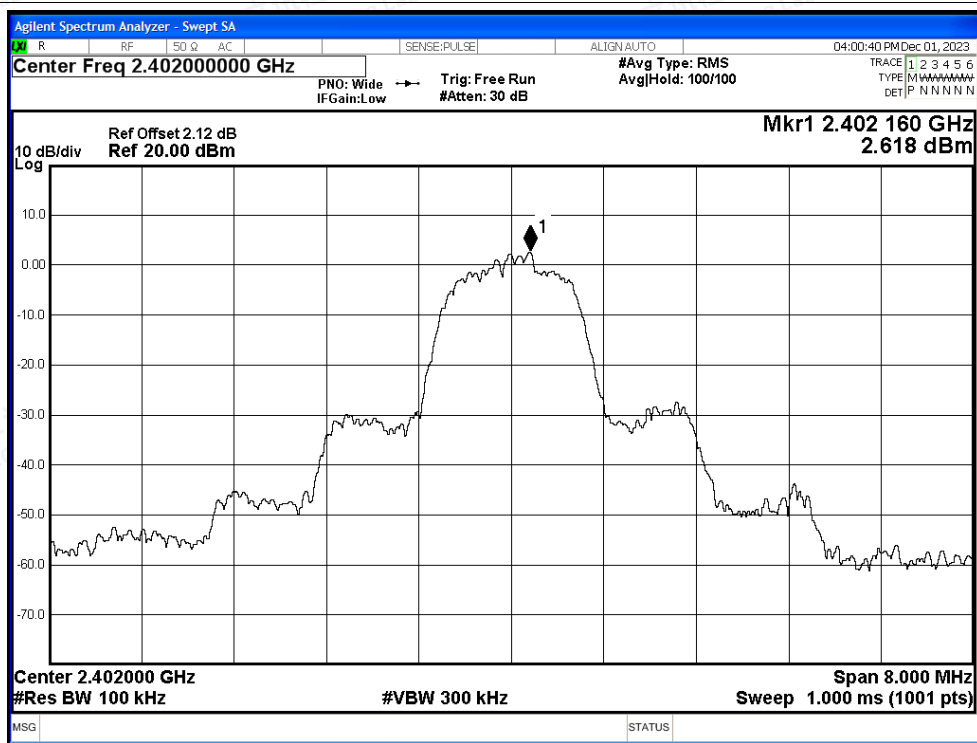


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

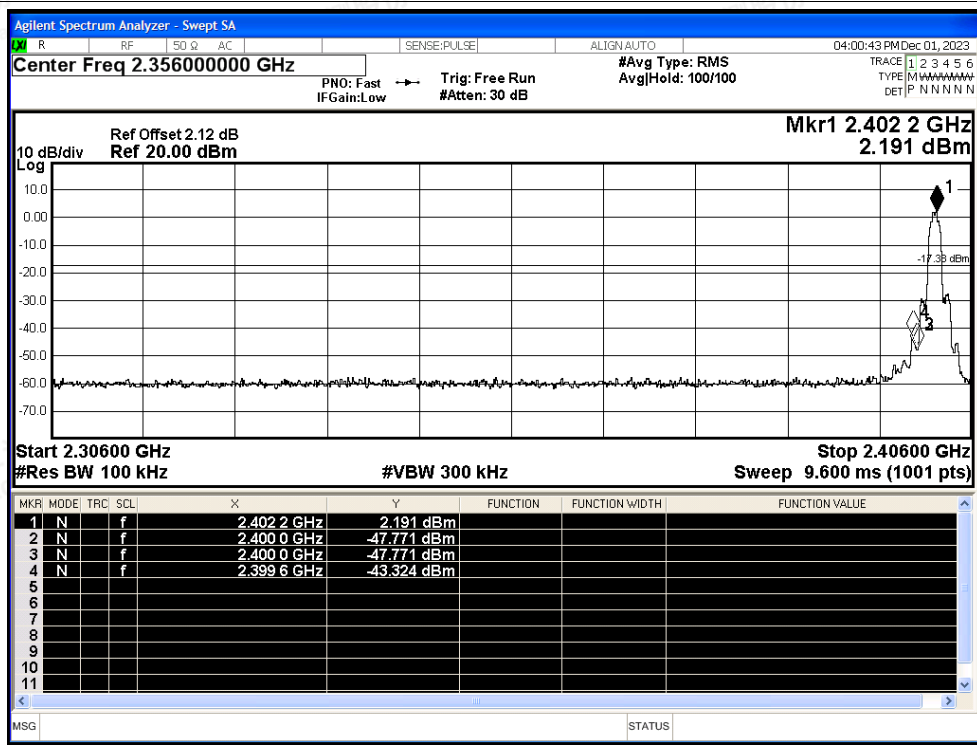




Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Ref

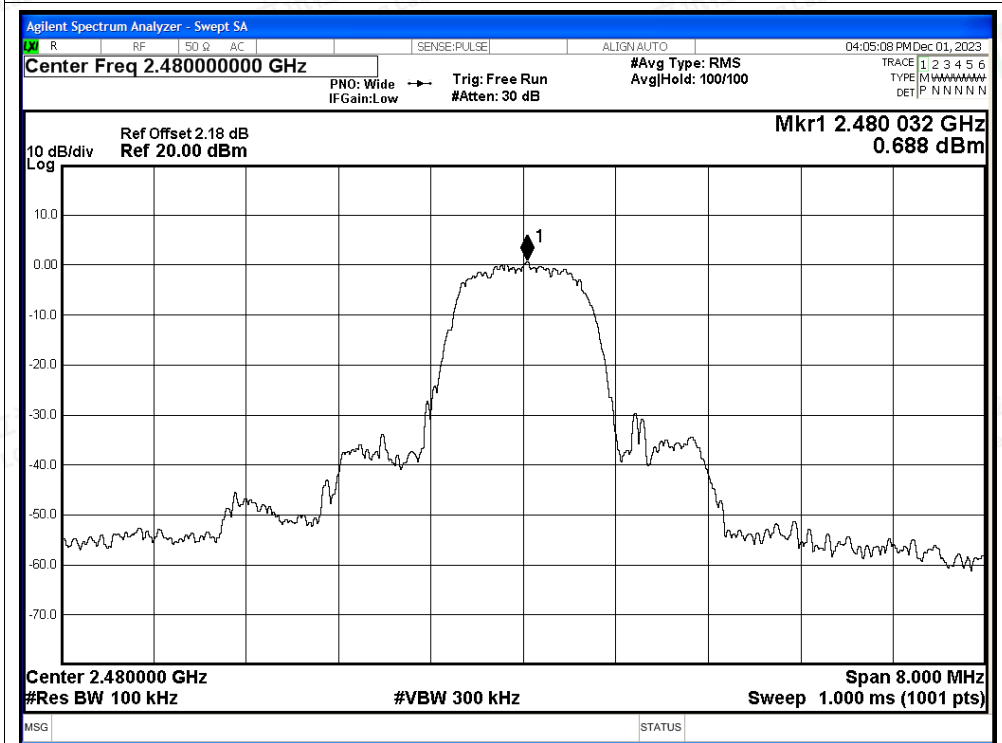


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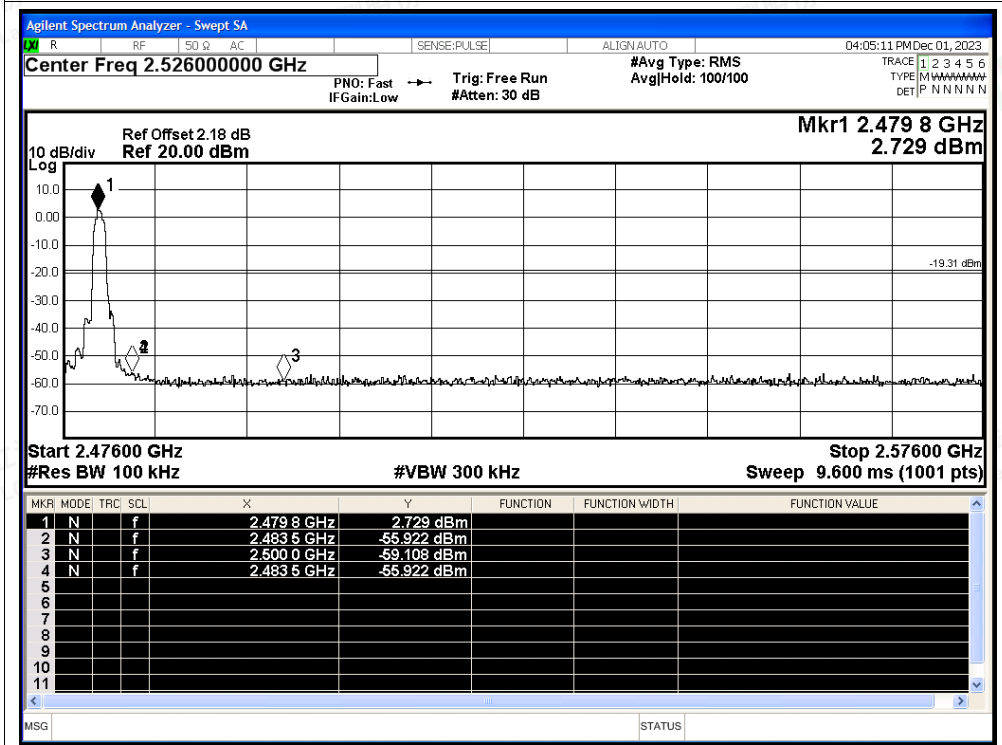




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref



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

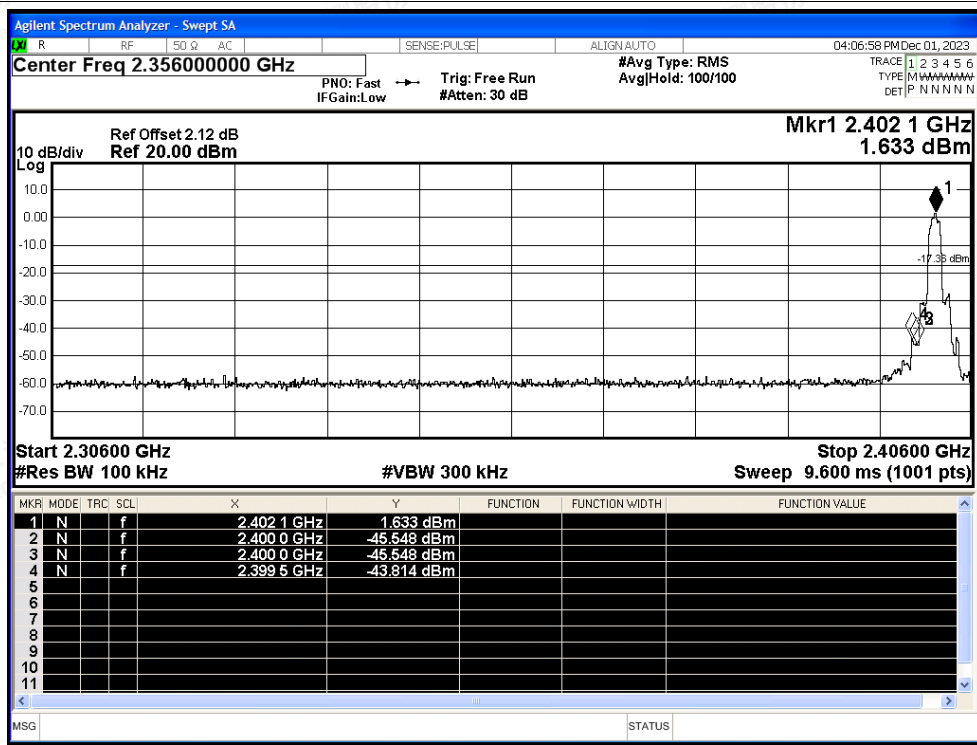




Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Ref

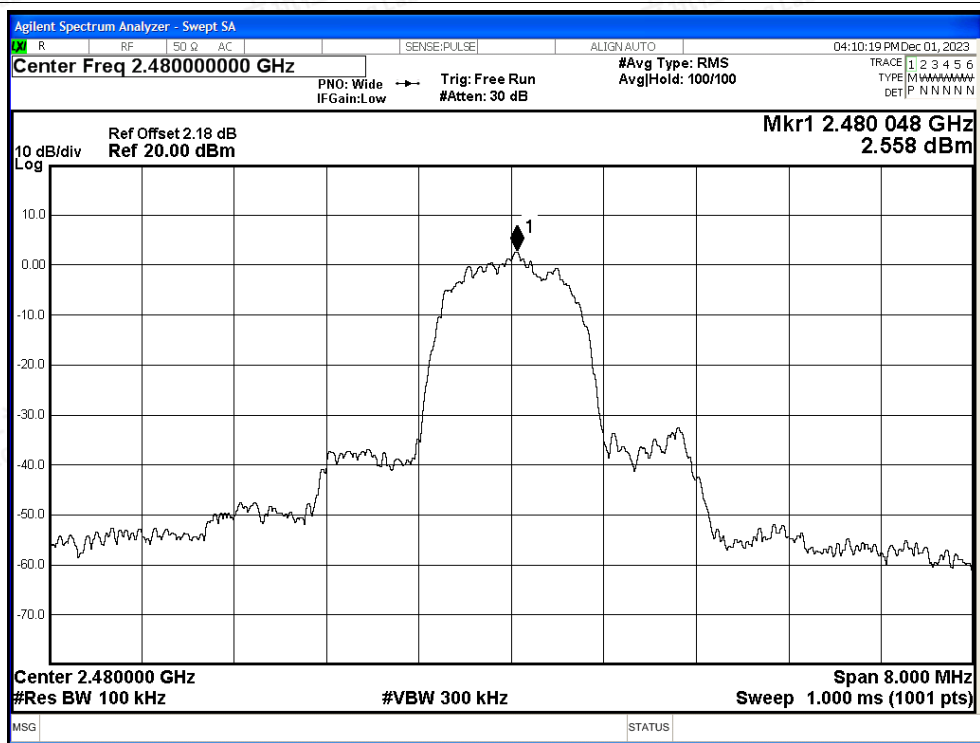


Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

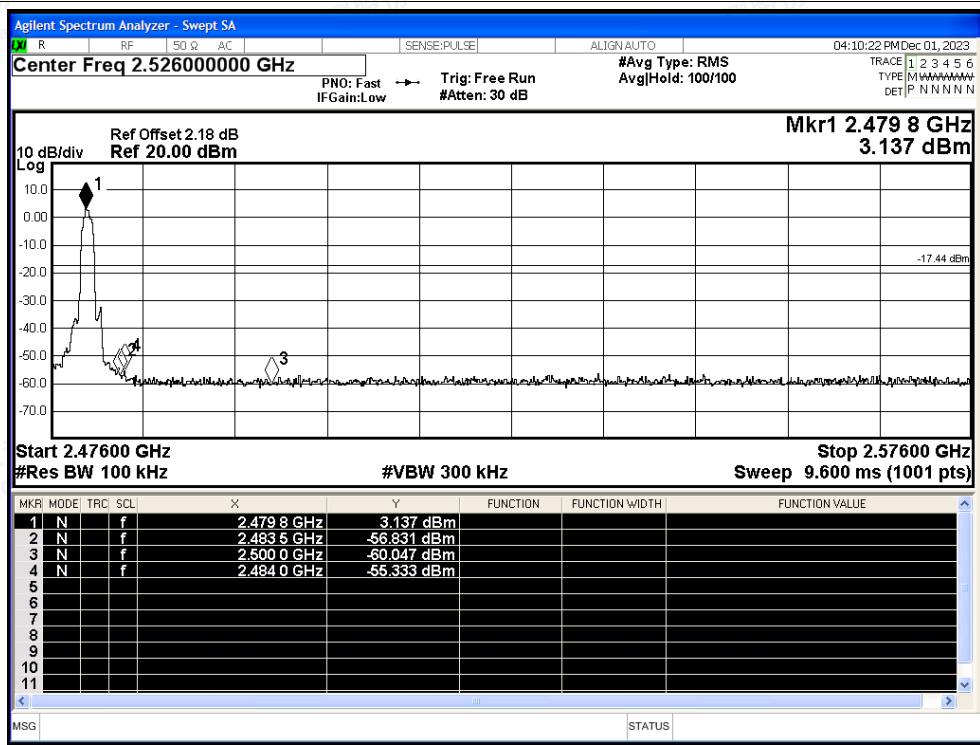




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-59.74	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-59.55	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-57.85	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-56.33	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-59.4	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-57.14	-20	Pass

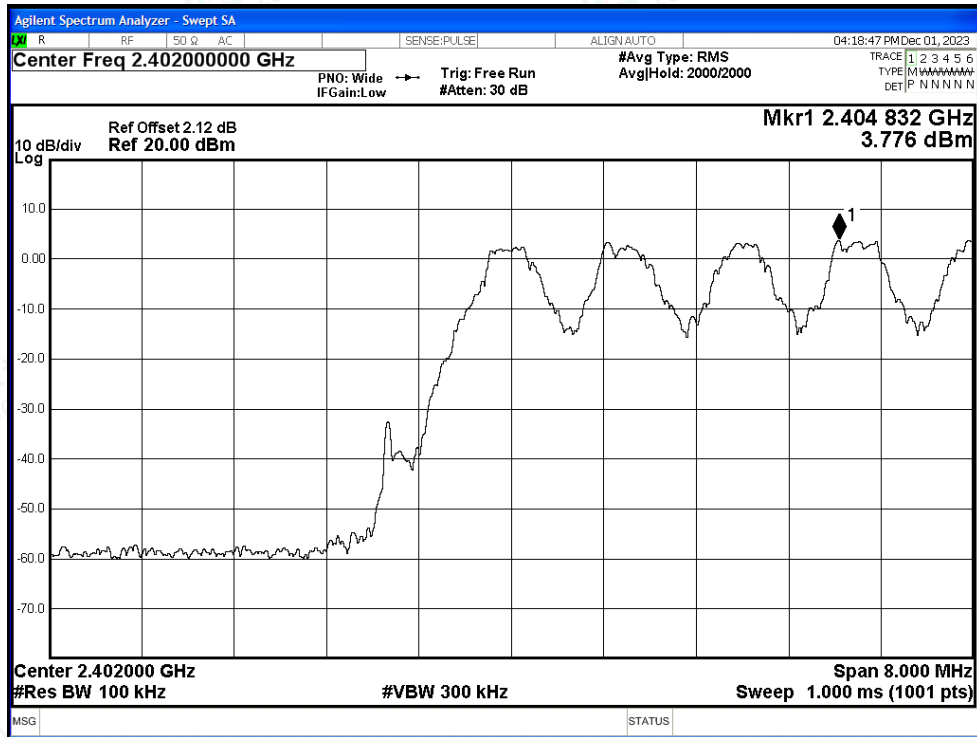


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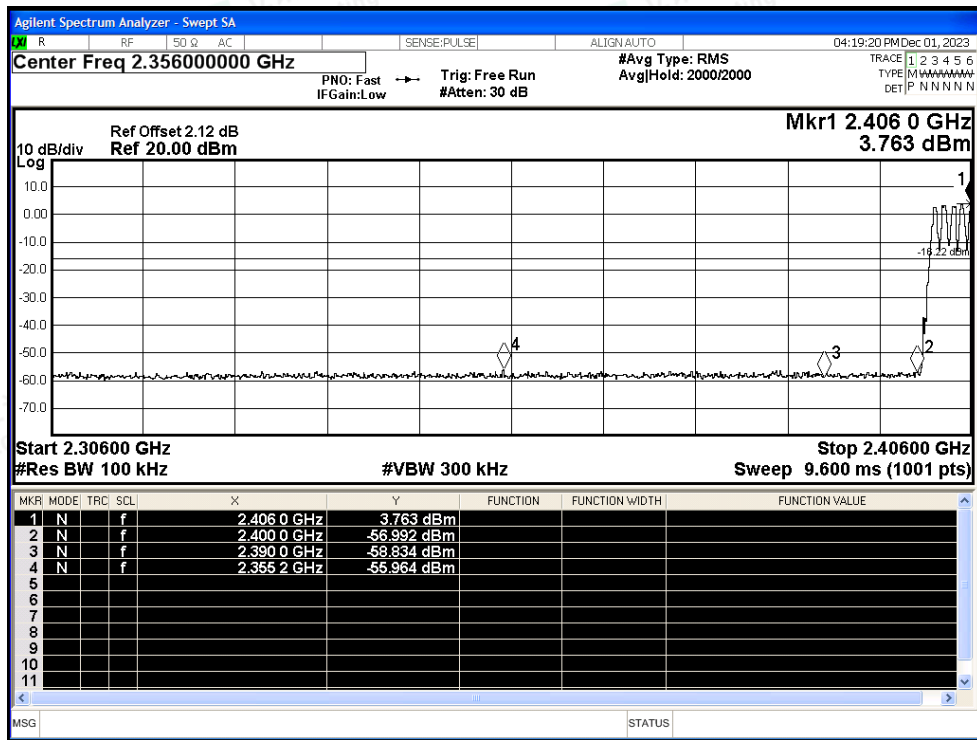


Test Graphs

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

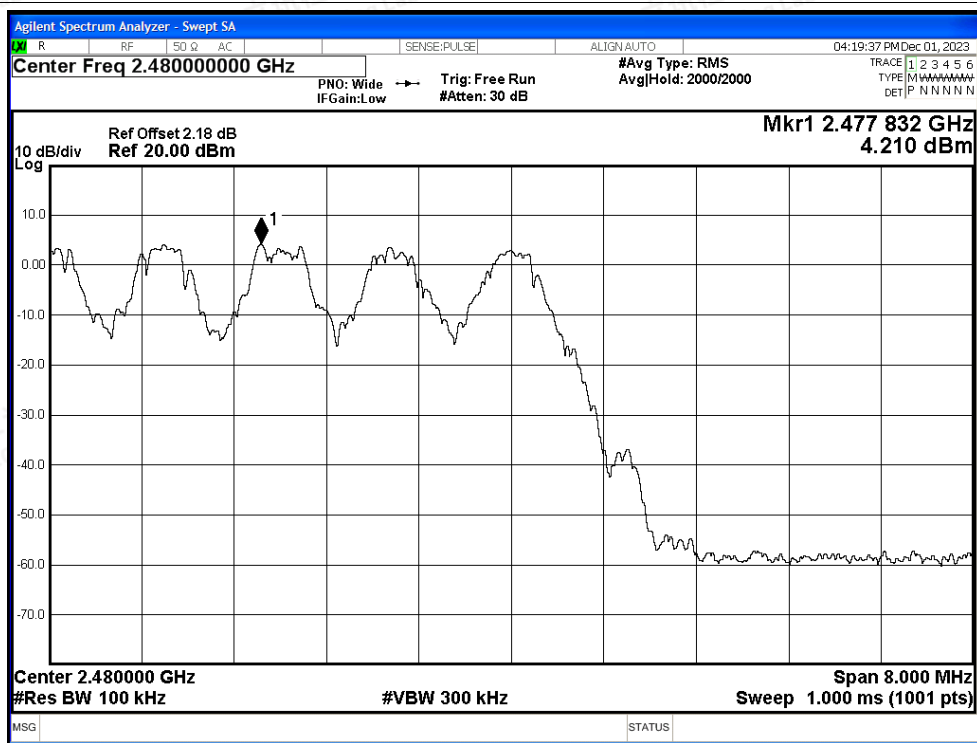


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

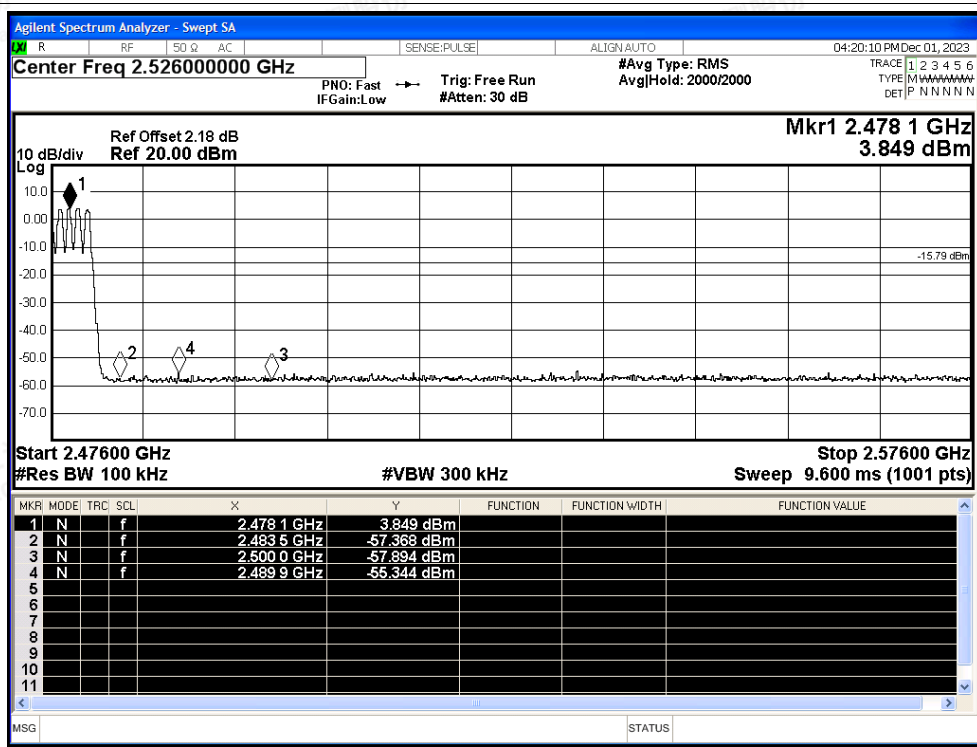




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref

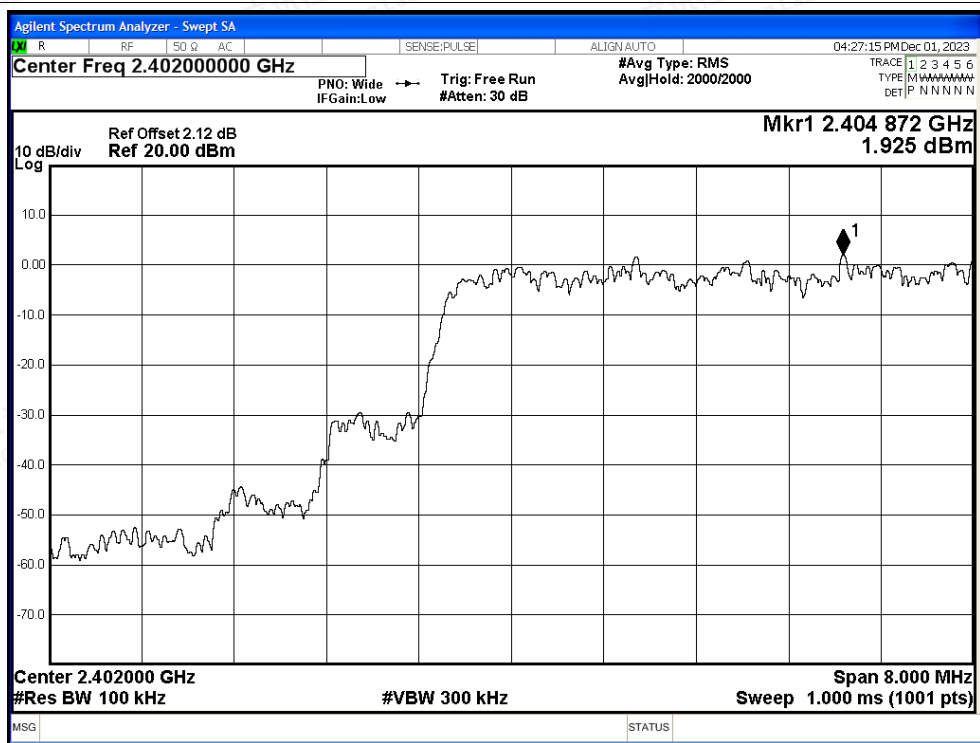


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Emission

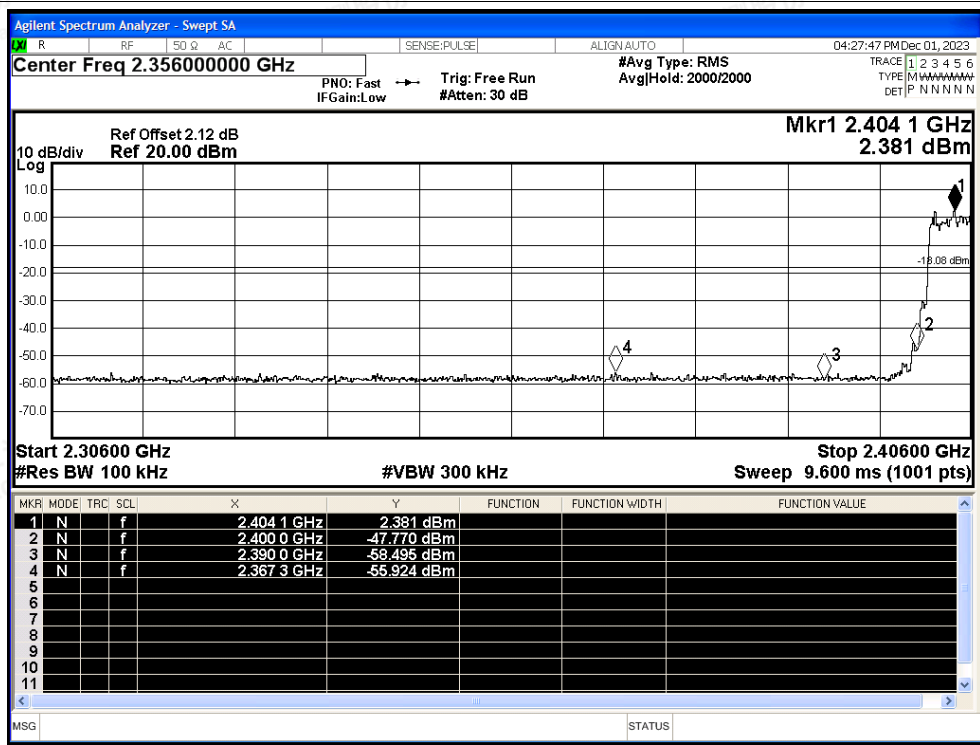




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

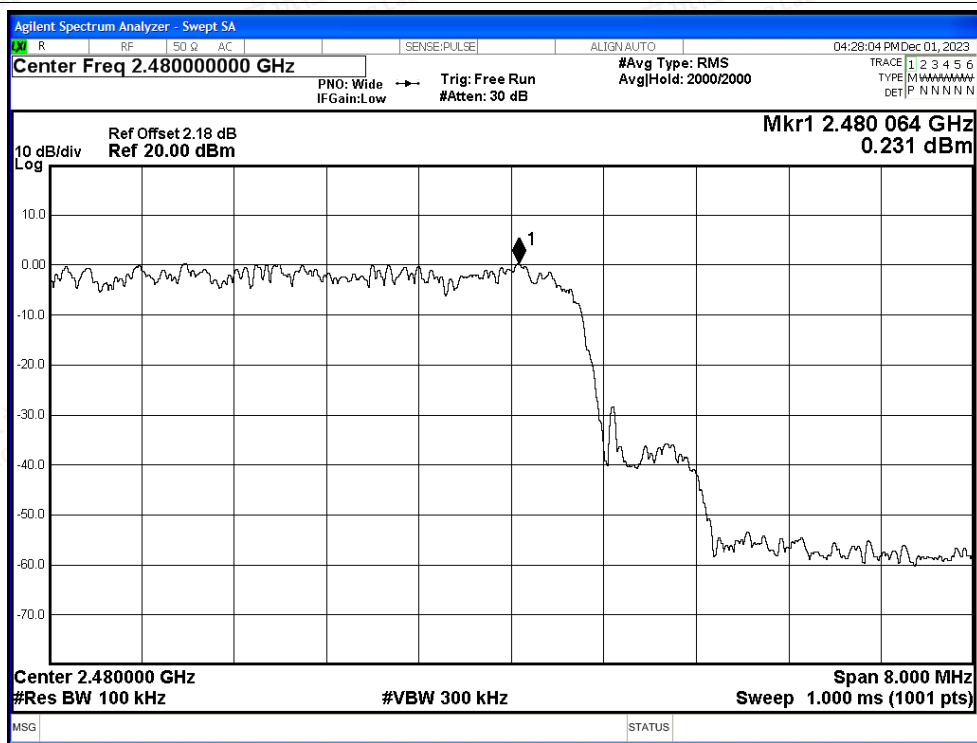


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

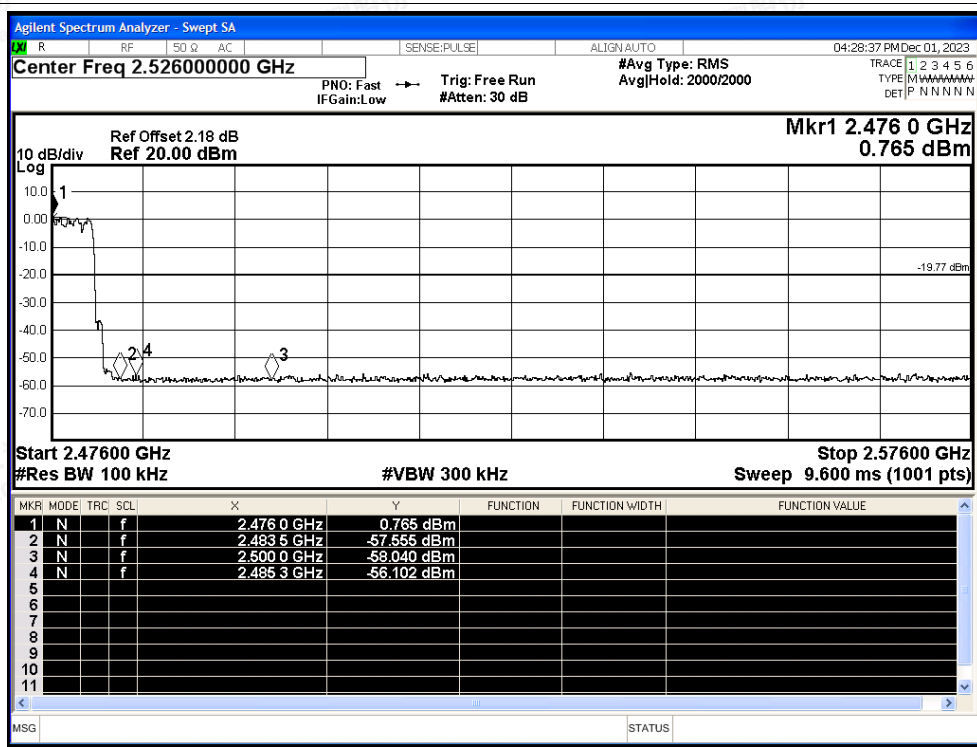




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref



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

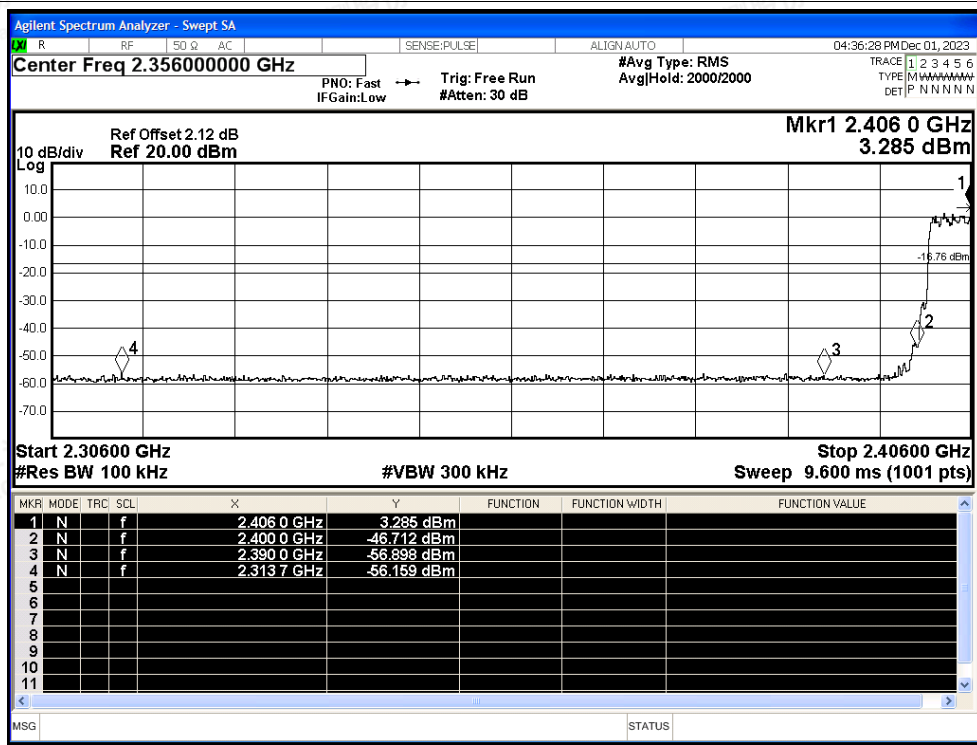




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

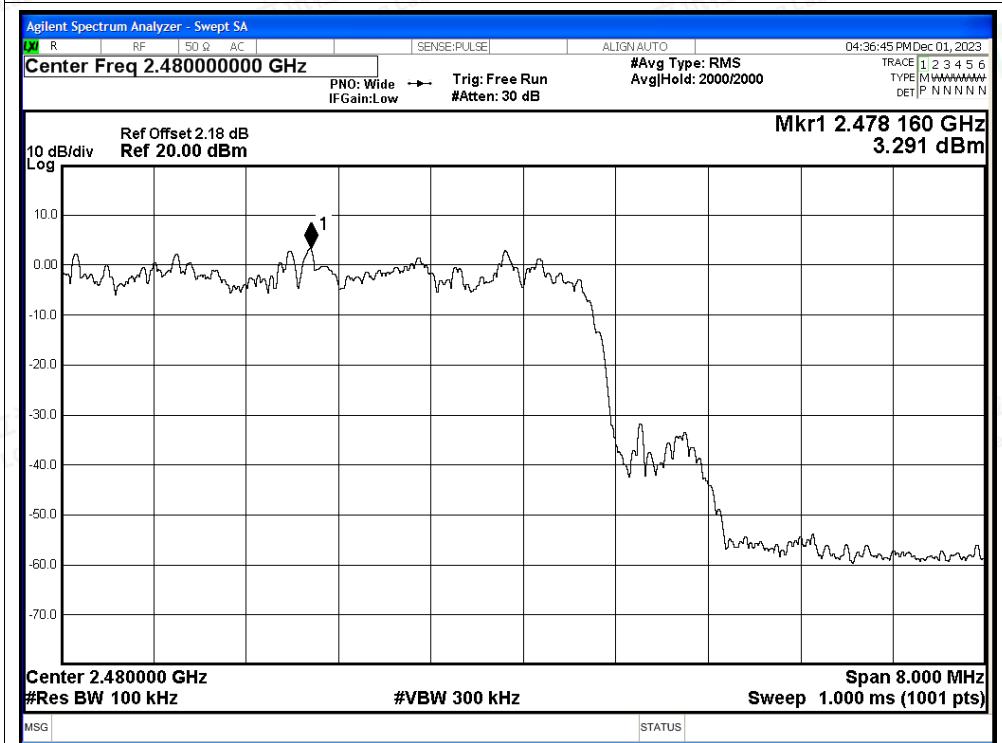


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

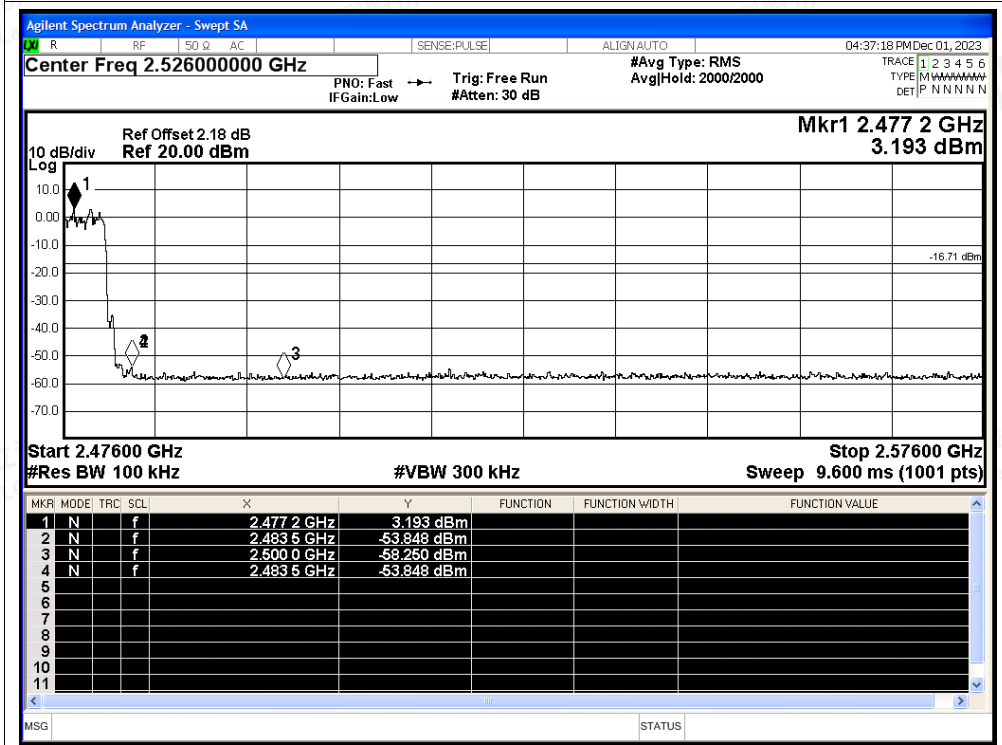




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-58.23	-20	Pass
NVNT	1-DH5	2441	Ant	-57.41	-20	Pass
NVNT	1-DH5	2480	Ant	-57.22	-20	Pass
NVNT	2-DH5	2402	Ant	-57.03	-20	Pass
NVNT	2-DH5	2441	Ant	-56.43	-20	Pass
NVNT	2-DH5	2480	Ant	-52.51	-20	Pass
NVNT	3-DH5	2402	Ant	-55.41	-20	Pass
NVNT	3-DH5	2441	Ant	-56.03	-20	Pass
NVNT	3-DH5	2480	Ant	-58.37	-20	Pass

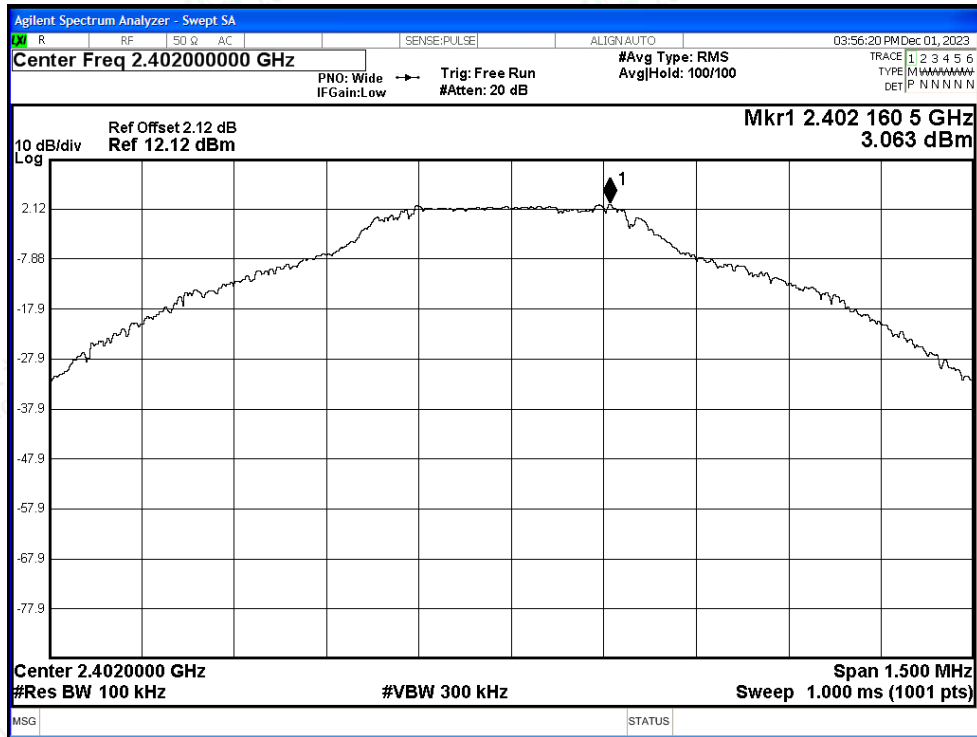


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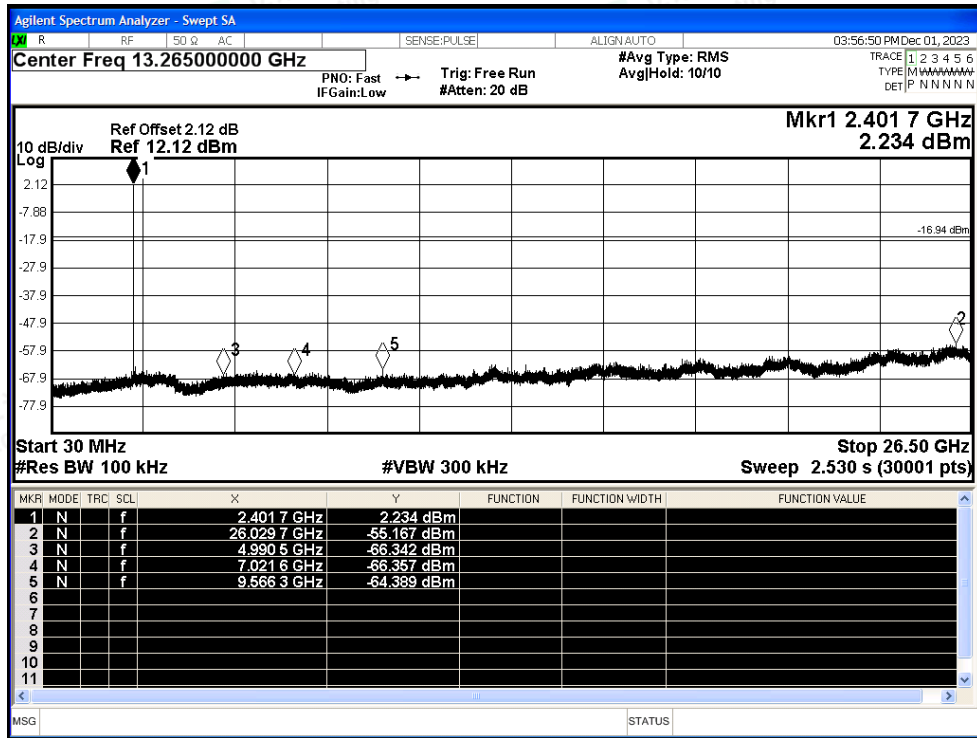


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

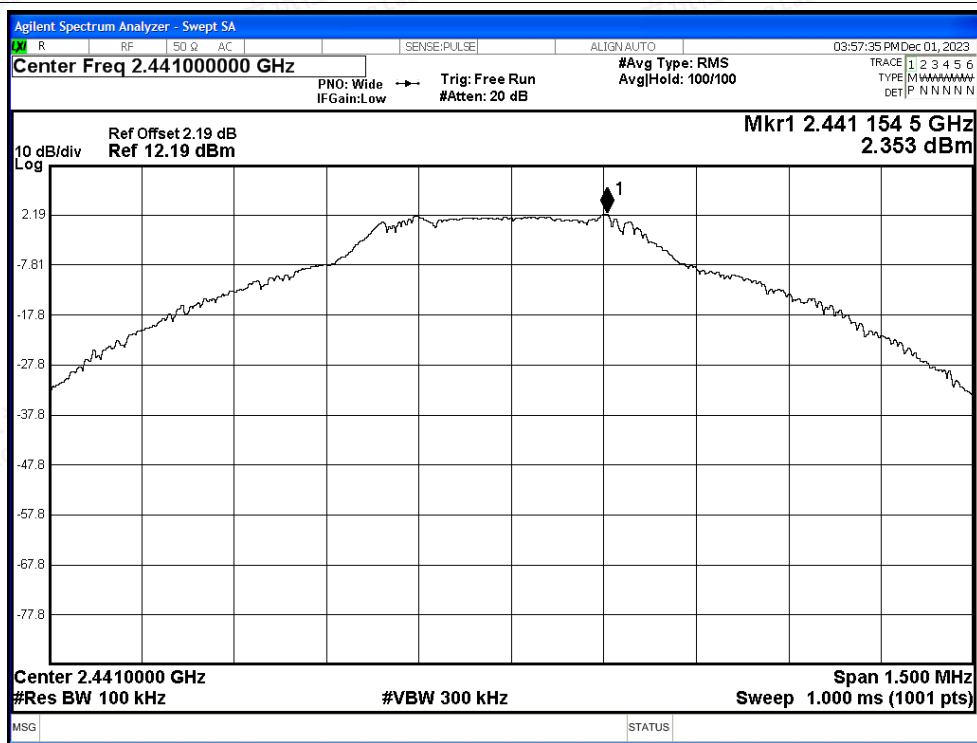


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

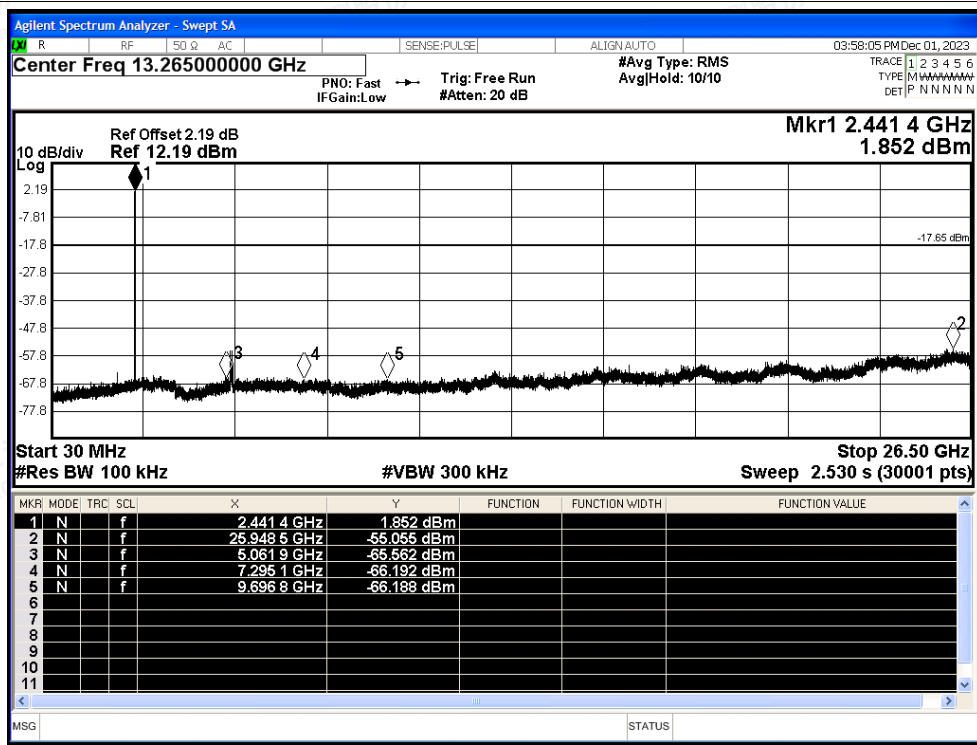




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref

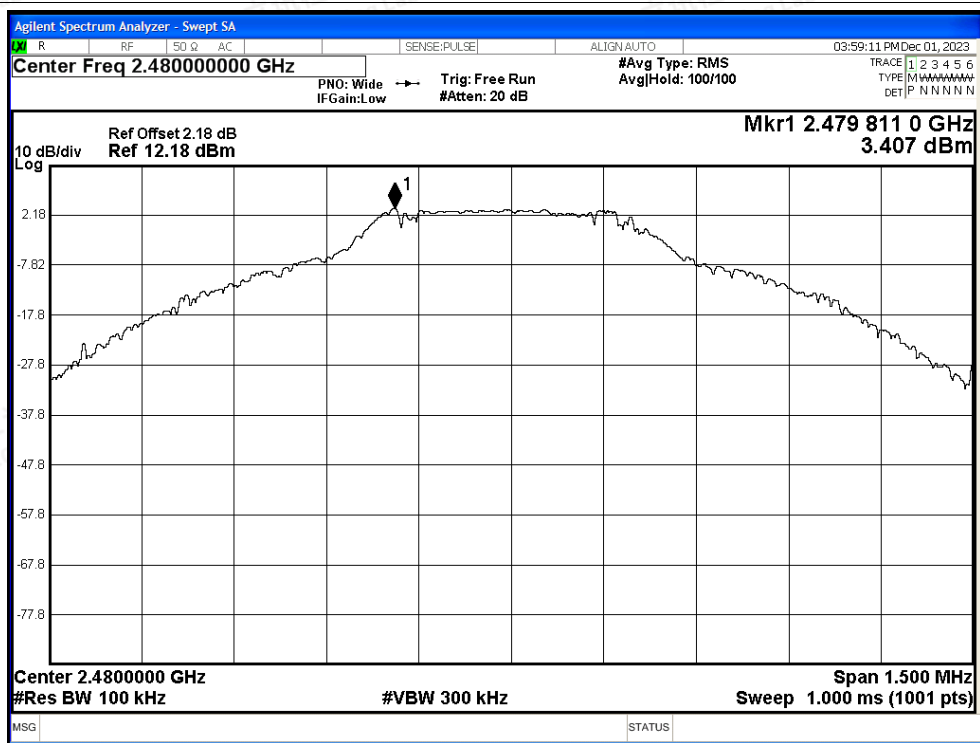


Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

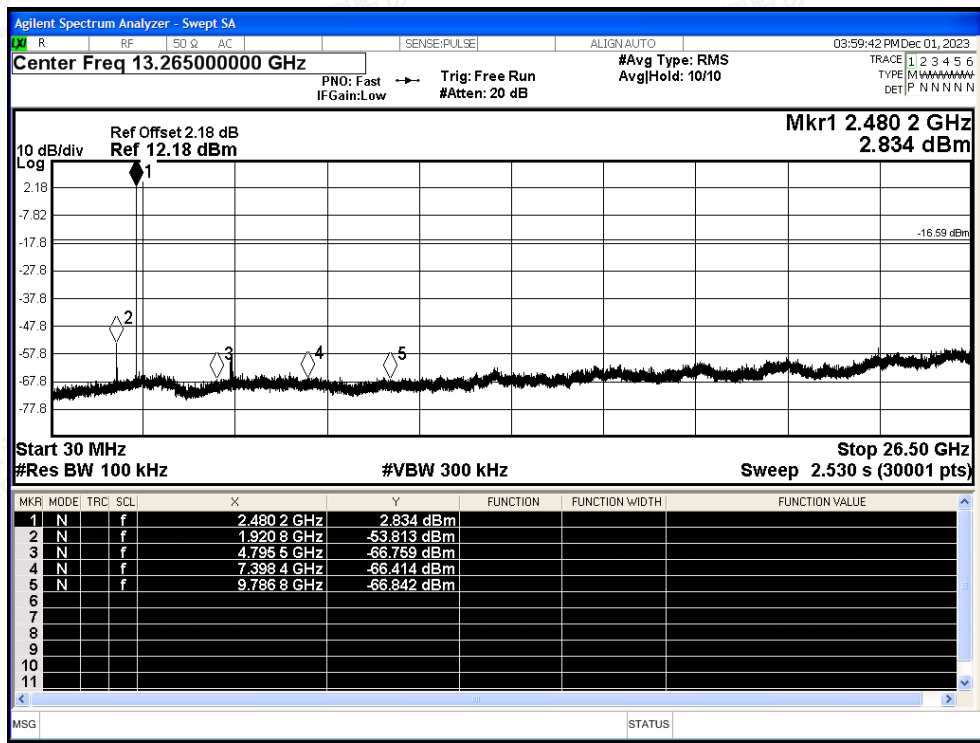




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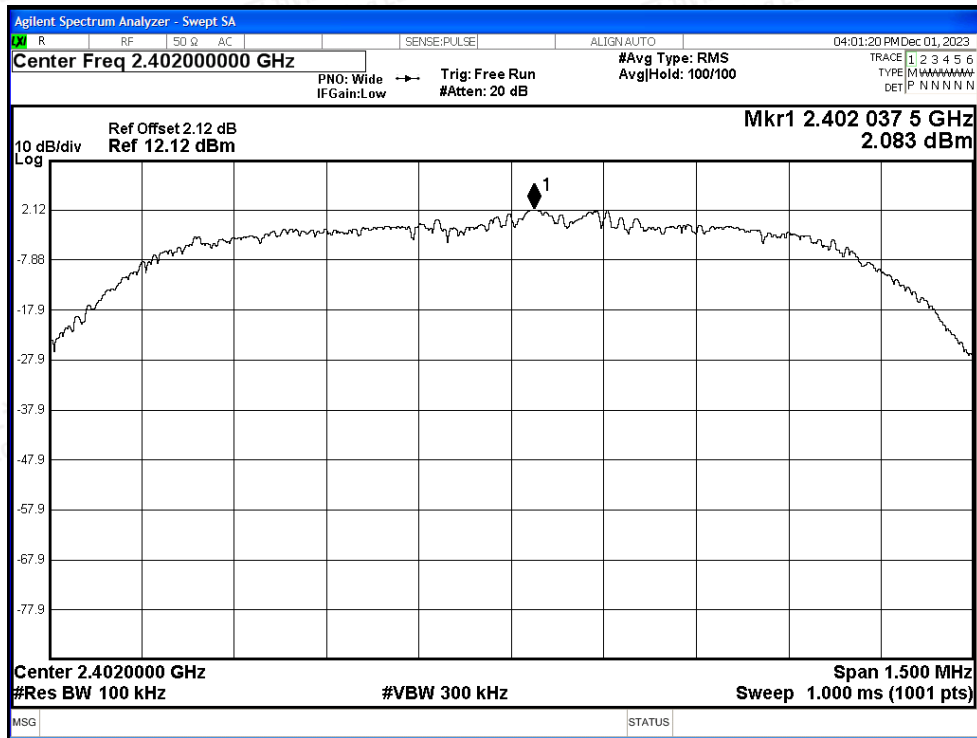


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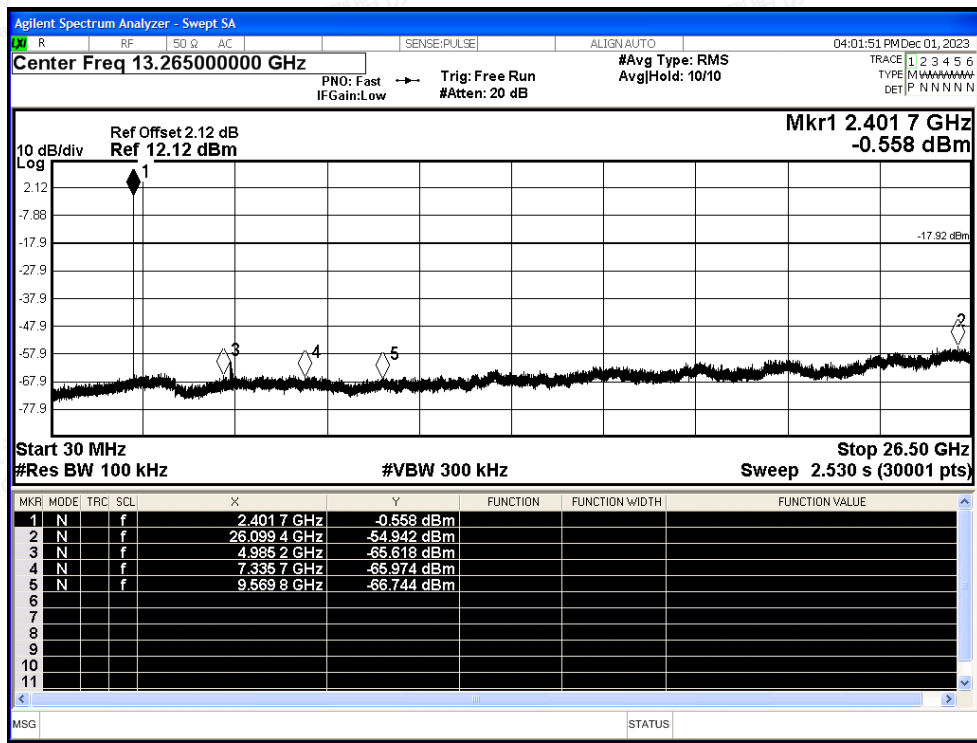




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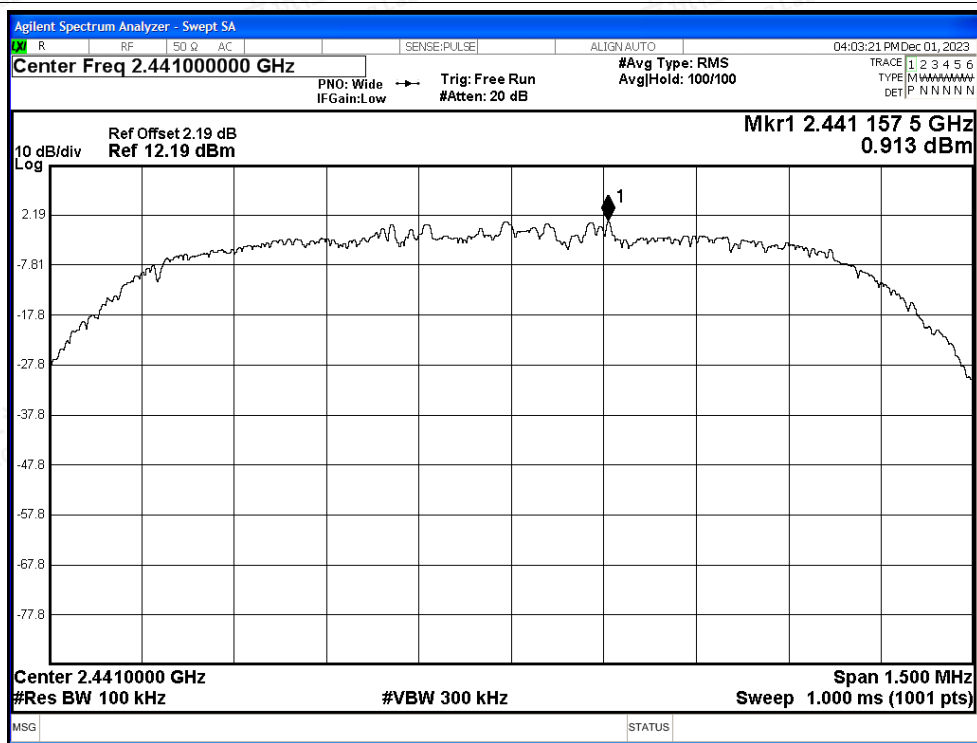


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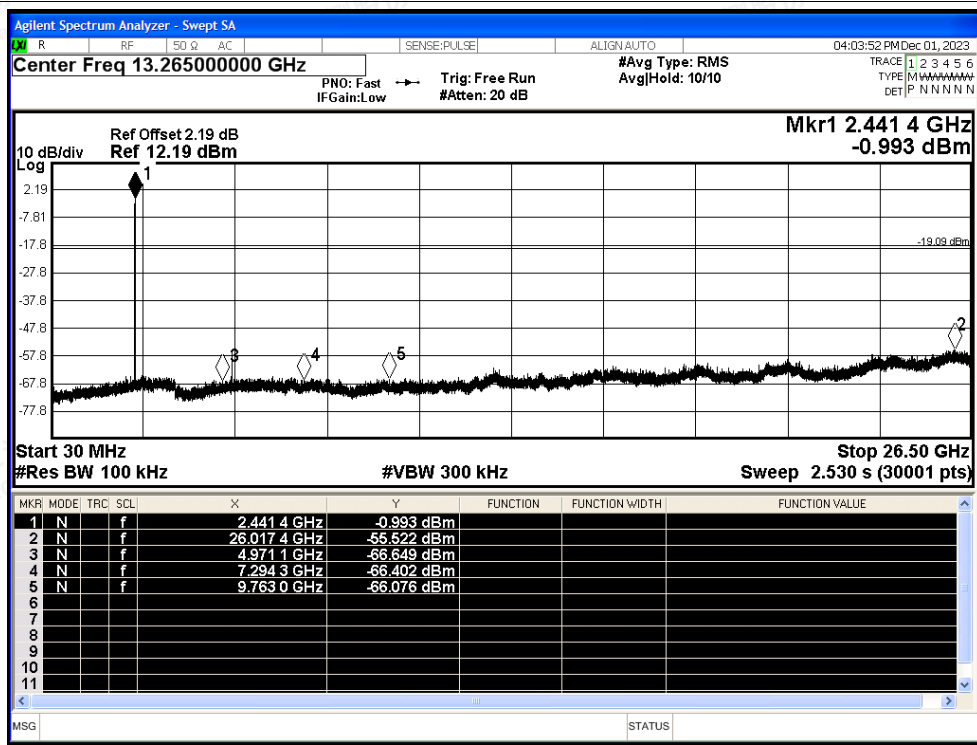




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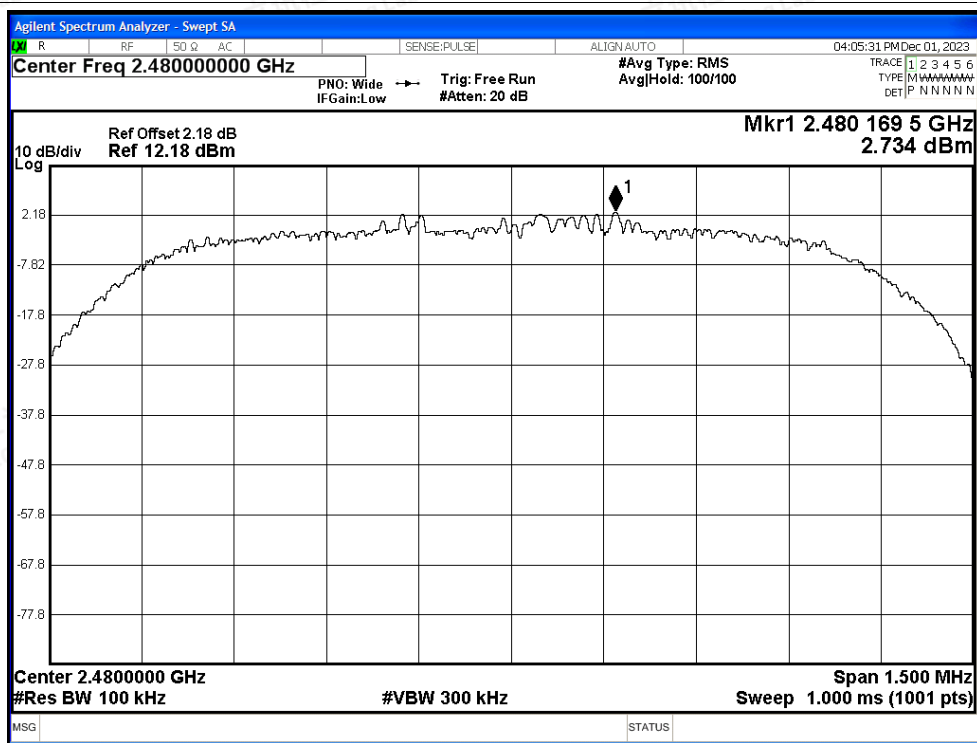


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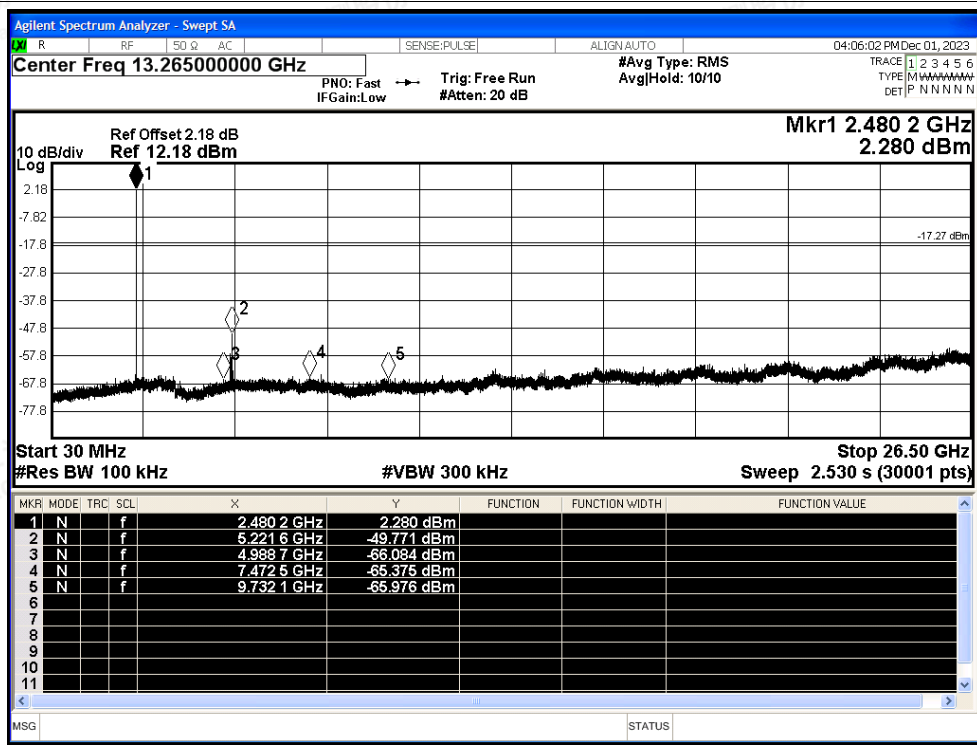




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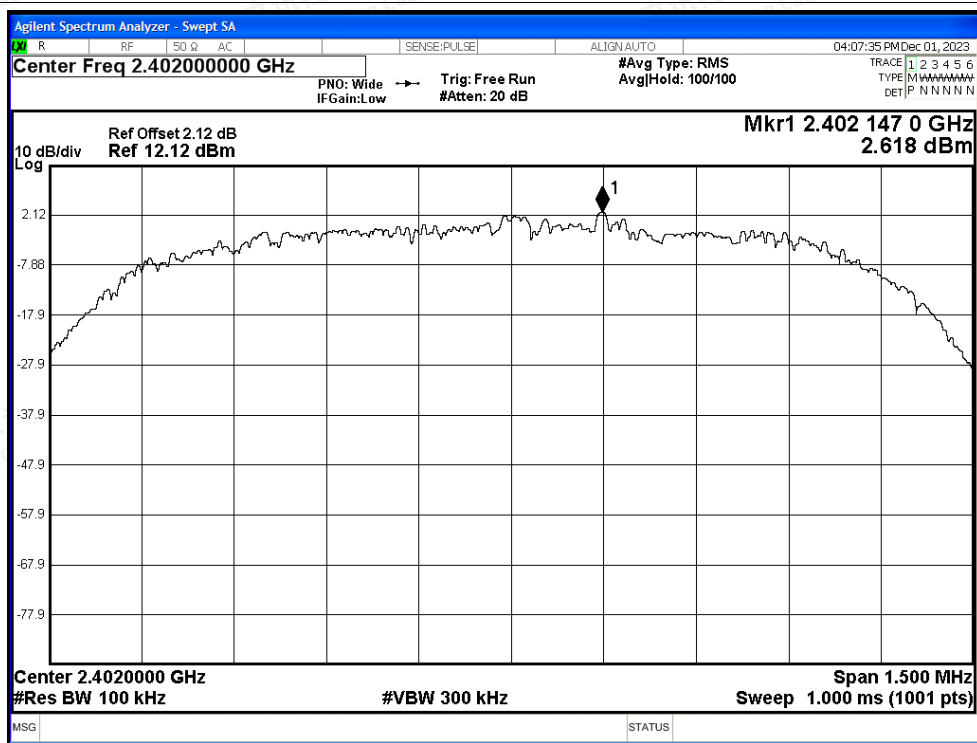


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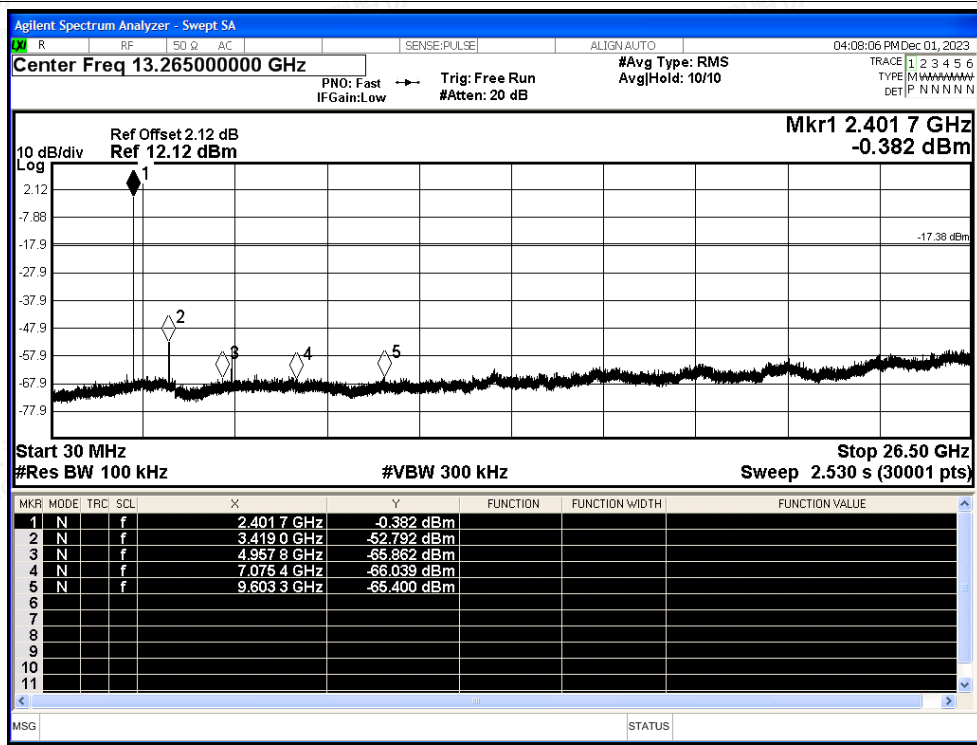




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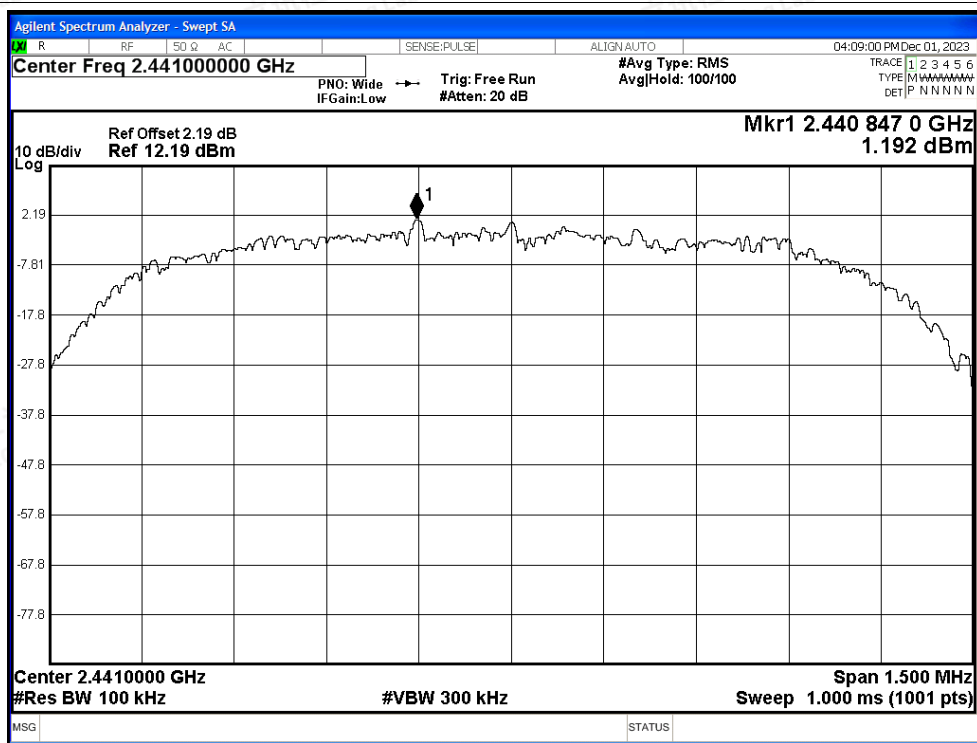


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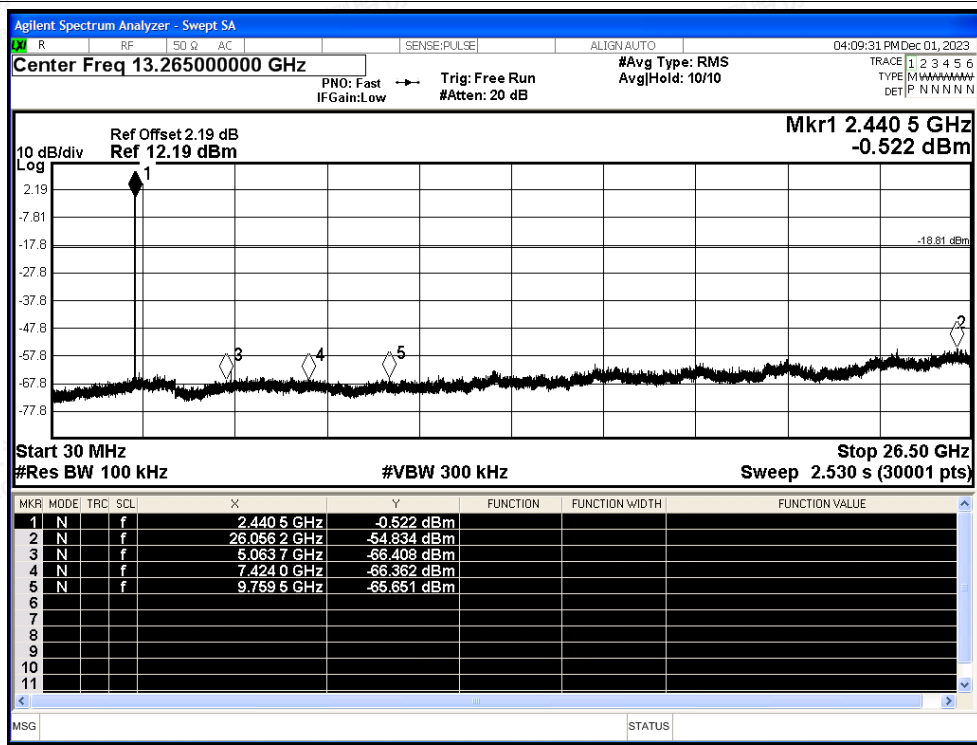




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

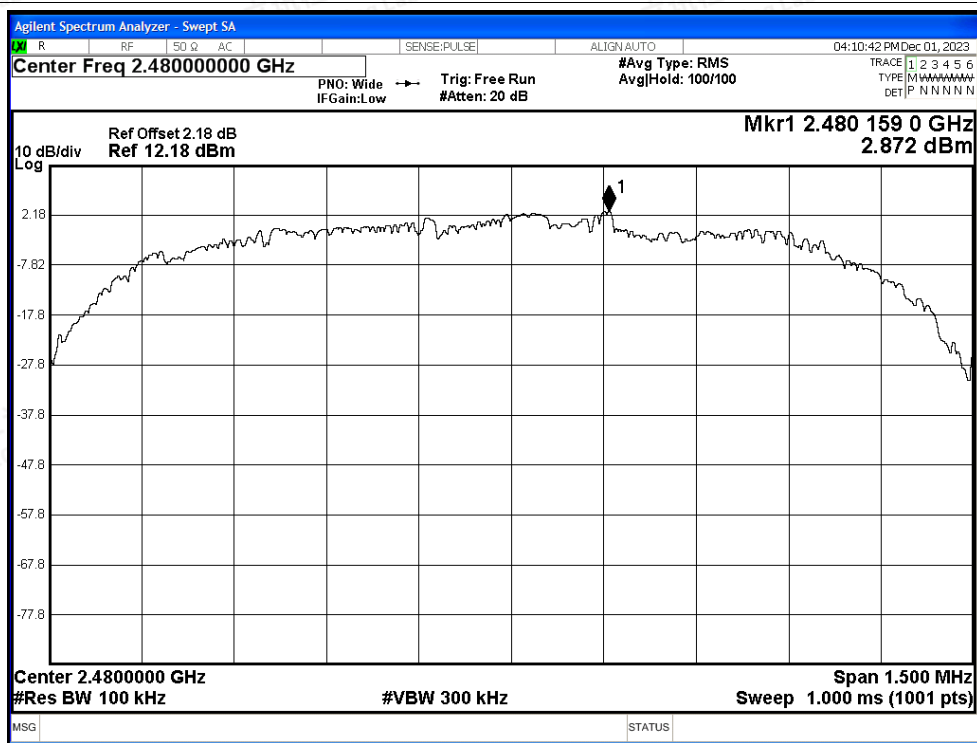


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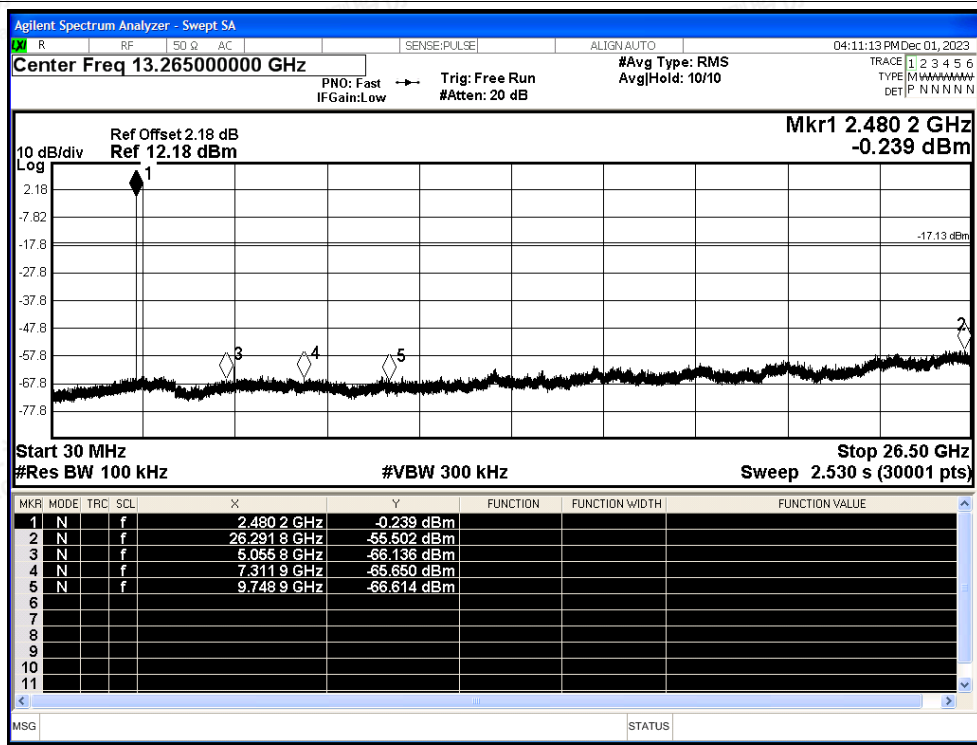




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant 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	Ant	No-Hopping	2310	-51.16	2	46.1	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-57.9	2	39.36	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2363.952	-47.23	2	50.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2389.104	-57.31	2	39.95	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-49.03	2	48.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.46	2	39.8	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-48.06	2	49.2	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-54.1	2	43.16	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2496.64	-46.7	2	50.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-54.1	2	43.16	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.51	2	46.75	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.17	2	40.09	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.39	2	45.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-57.82	2	39.44	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2350.416	-47.22	2	50.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2388.912	-57.27	2	39.99	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.08	2	47.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.34	2	39.92	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-45.51	2	51.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-52.1	2	45.16	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-45.51	2	51.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-52.1	2	45.16	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.38	2	46.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.15	2	40.11	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-49.9	2	47.36	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-57.79	2	39.47	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2345.712	-47.24	2	50.02	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2386.608	-57.31	2	39.95	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-50.51	2	46.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.33	2	39.93	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-46.1	2	51.16	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-52.1	2	45.16	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2484.088	-45.91	2	51.35	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-52.1	2	45.16	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-51.14	2	46.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.16	2	40.1	Average	54	Pass

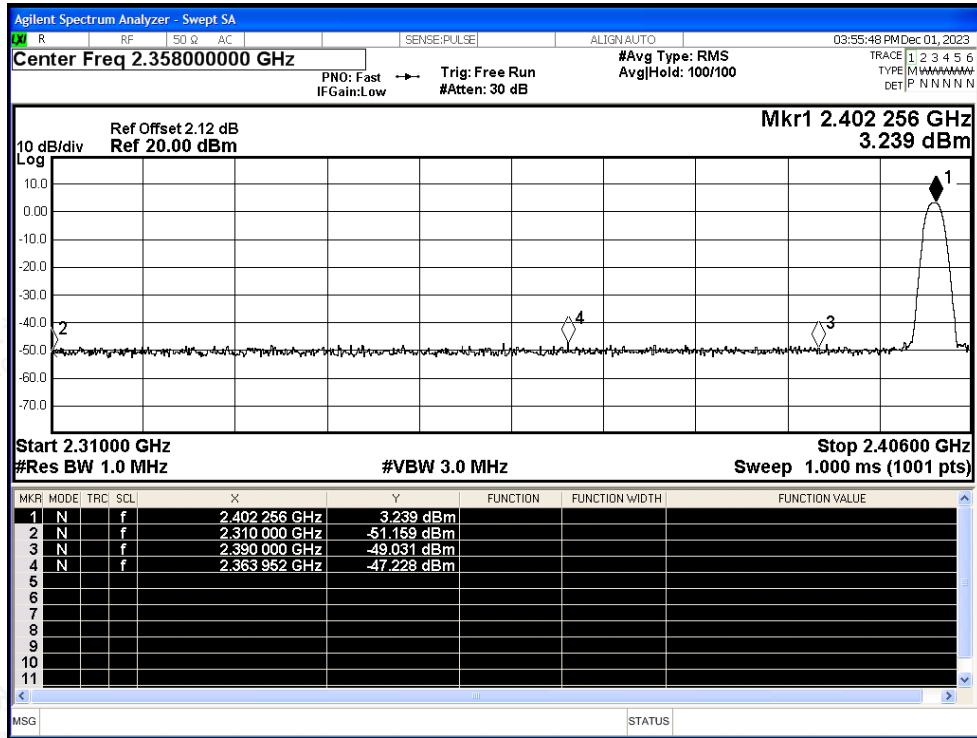


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 Scan code to check authenticity

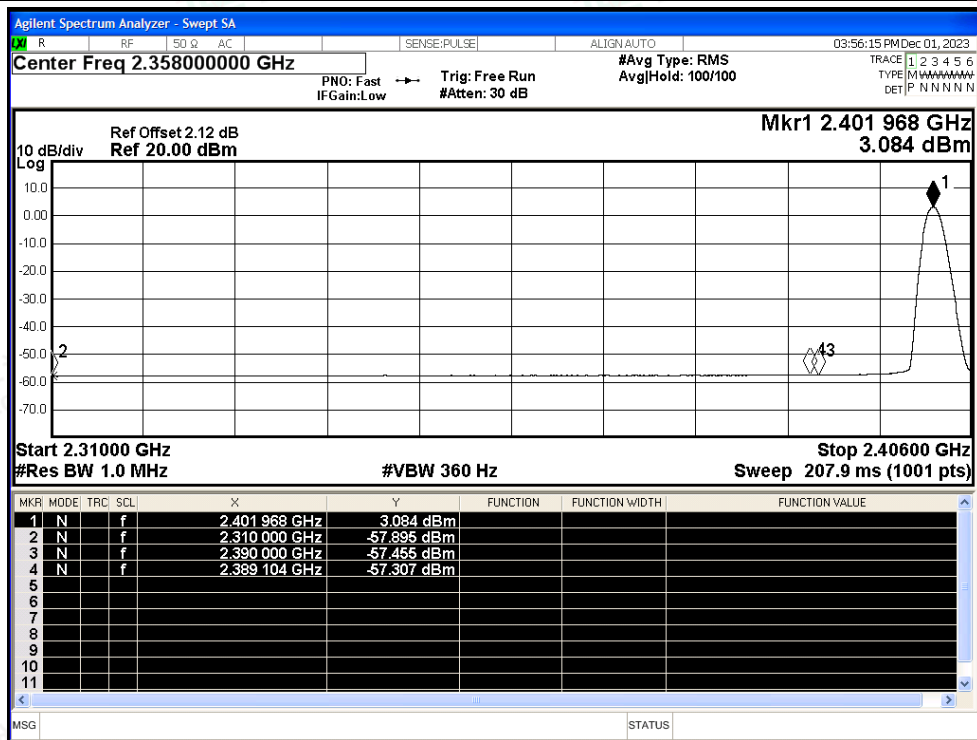


Test Graphs

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

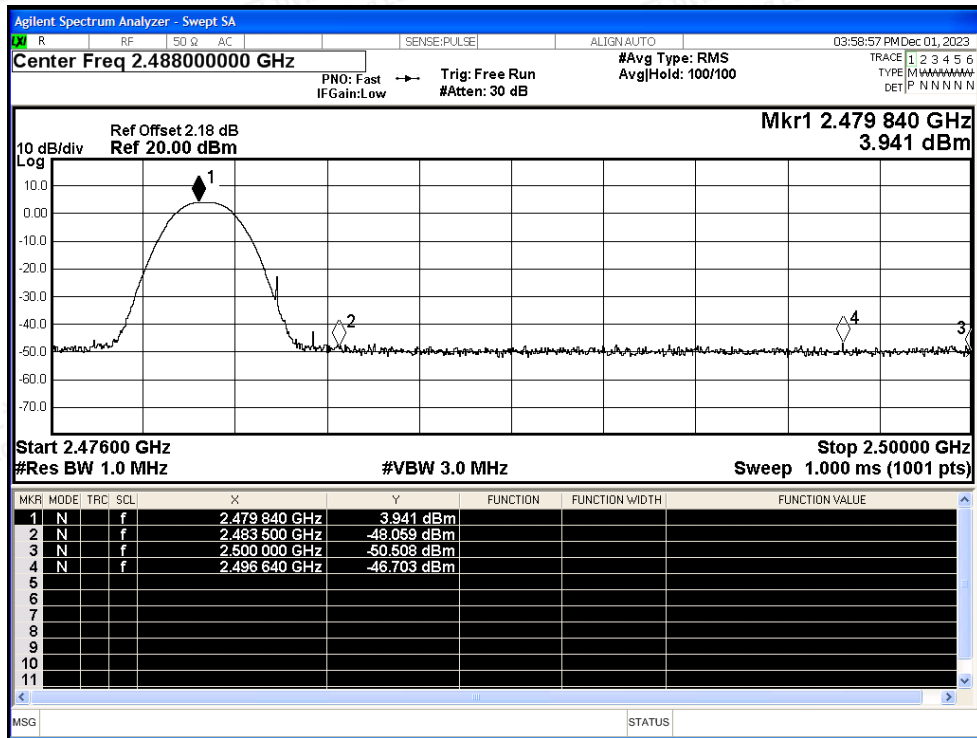


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

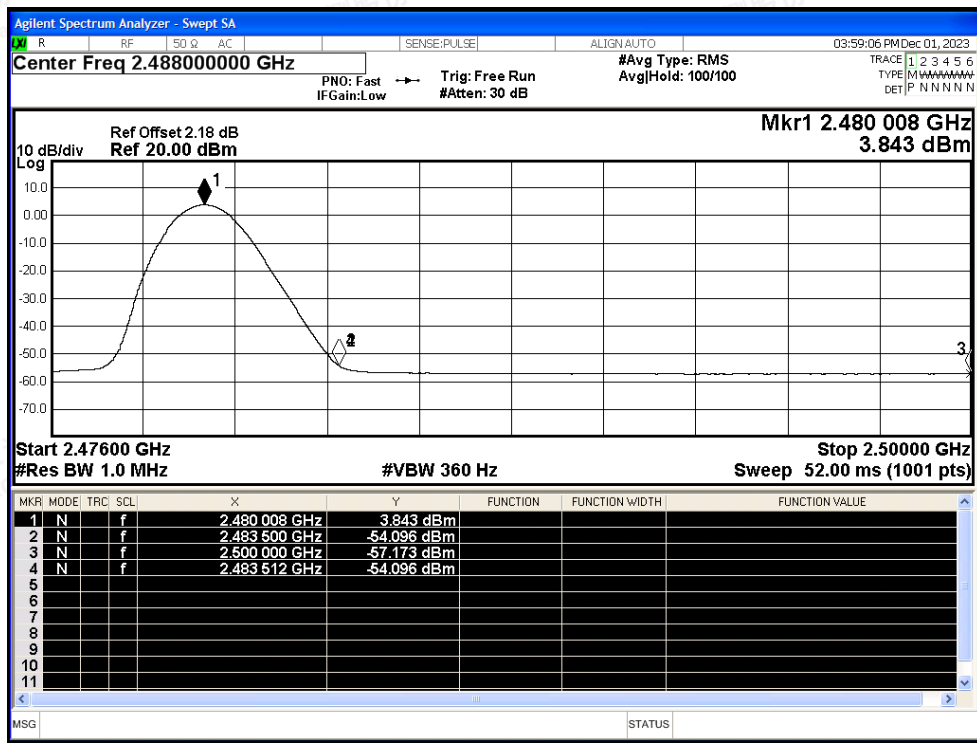




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

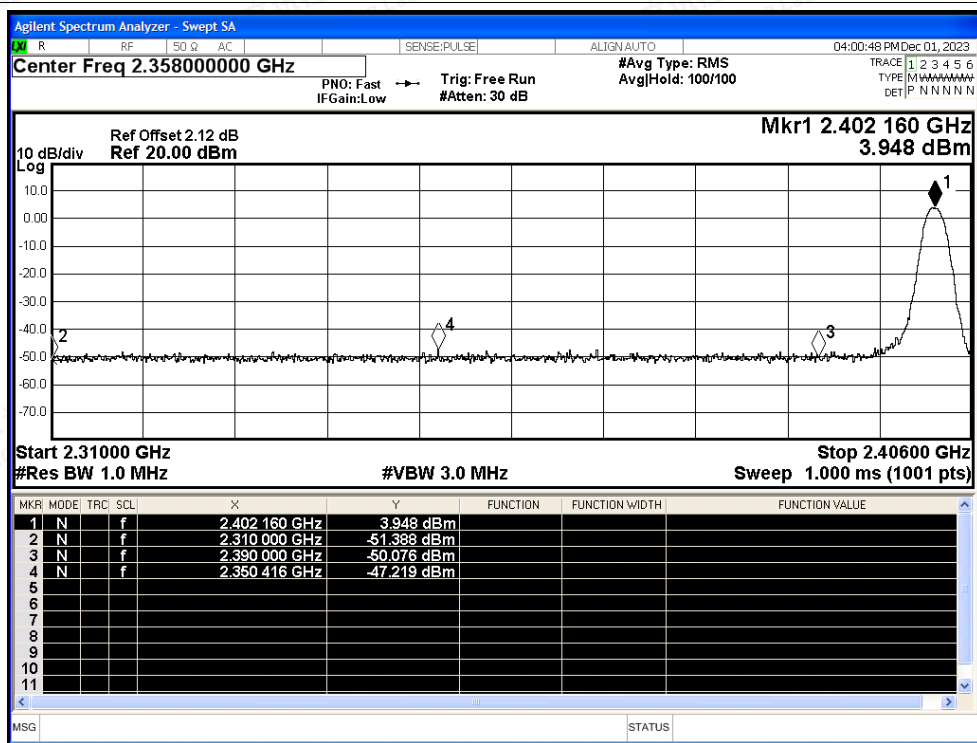


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

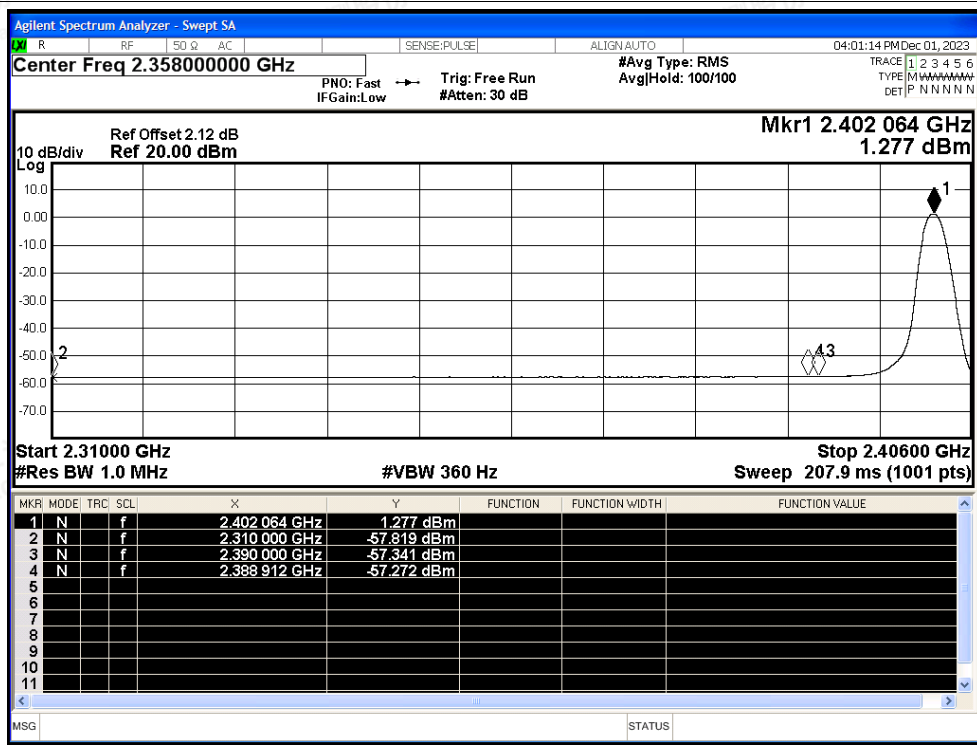




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

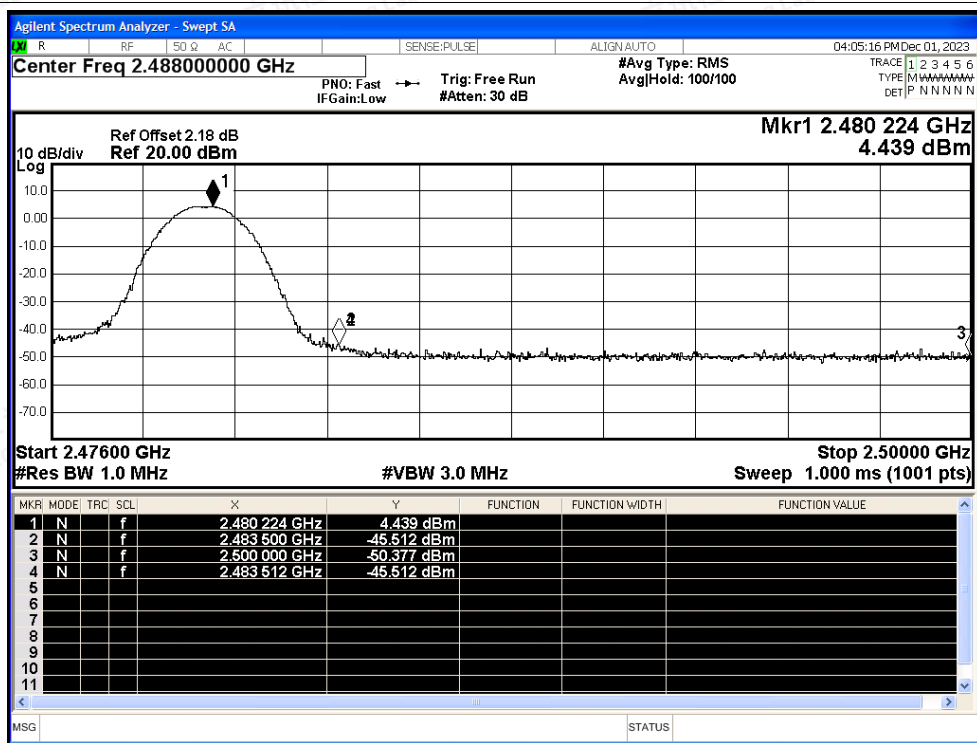


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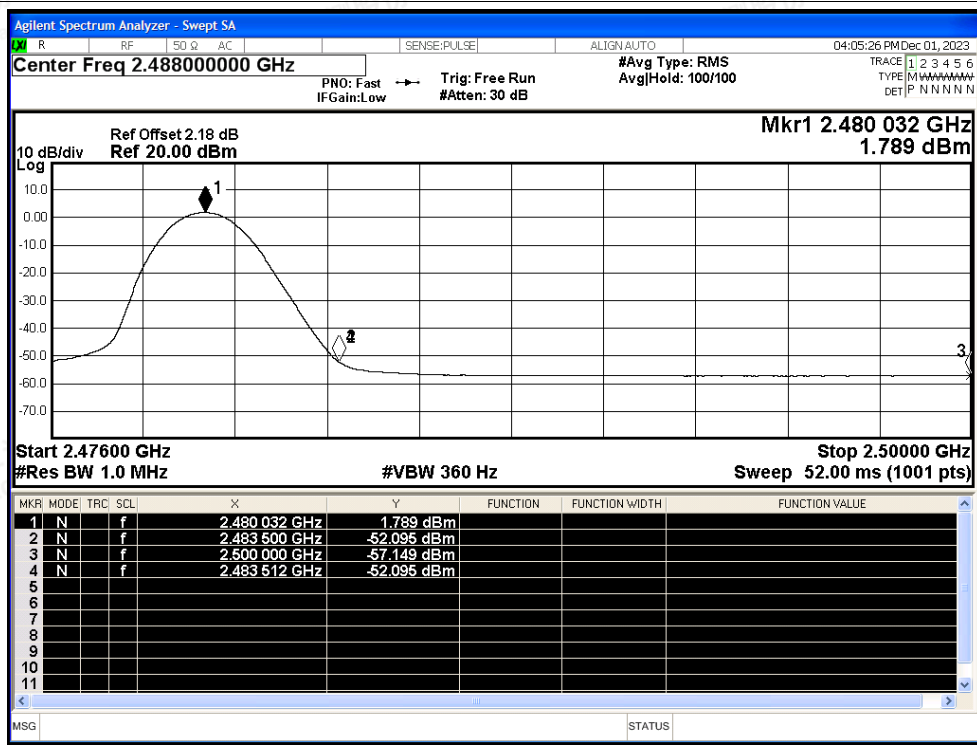




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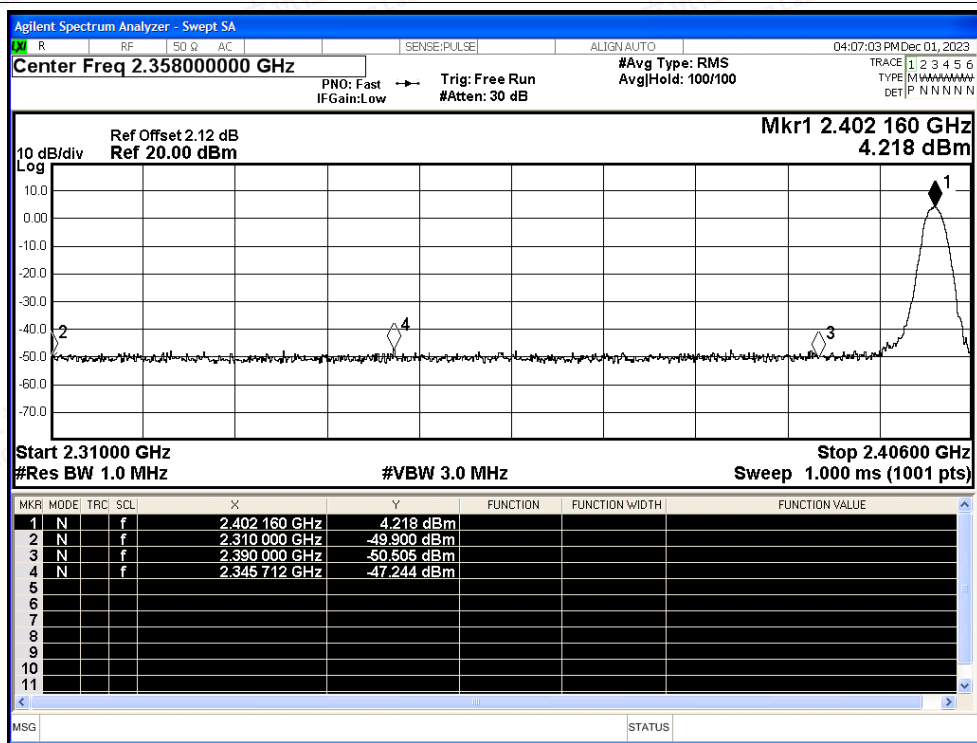


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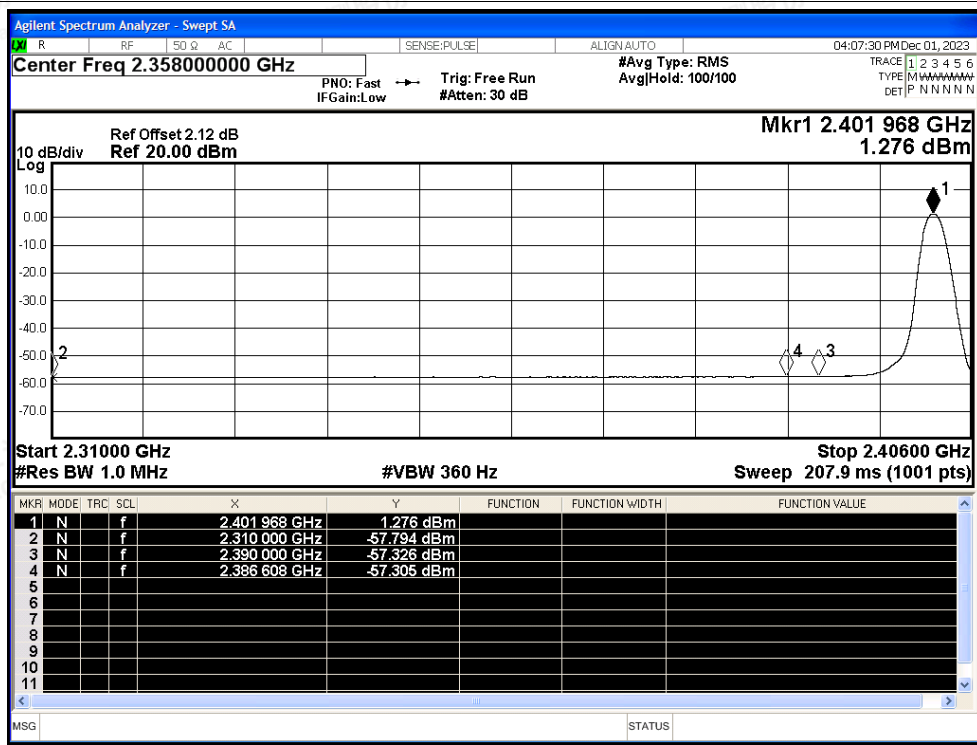




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

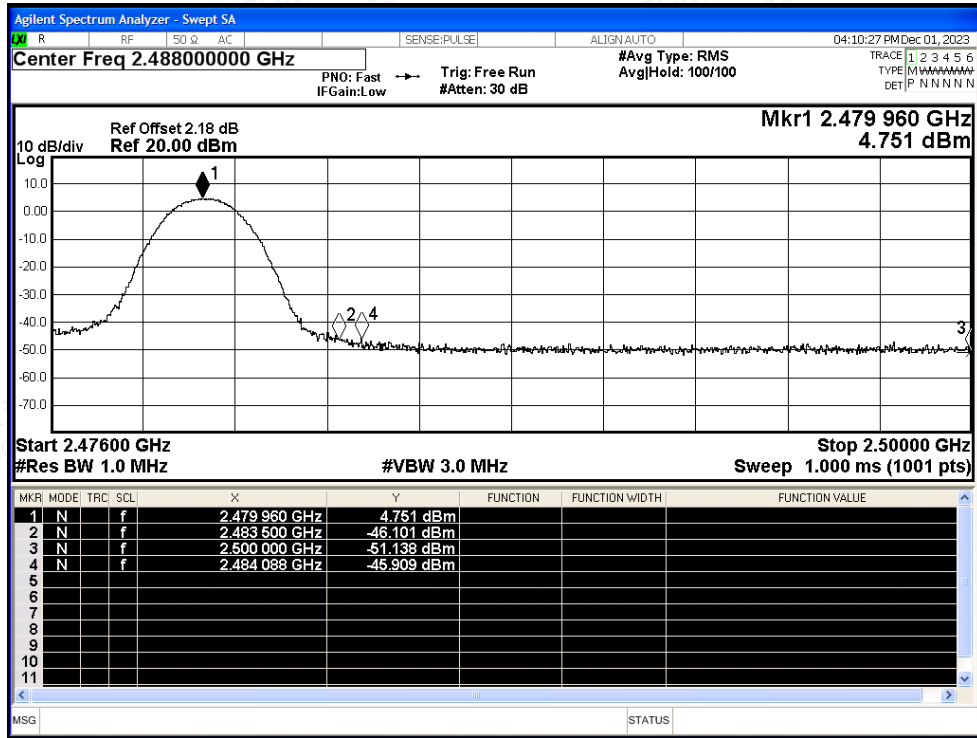


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

