



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mobile phone

Test Model: A07

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	0.944	N/A	Pass
NVNT	1-DH5	2441	Ant	0.945	N/A	Pass
NVNT	1-DH5	2480	Ant	0.94	N/A	Pass
NVNT	2-DH5	2402	Ant	1.271	N/A	Pass
NVNT	2-DH5	2441	Ant	1.295	N/A	Pass
NVNT	2-DH5	2480	Ant	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant	1.293	N/A	Pass
NVNT	3-DH5	2441	Ant	1.299	N/A	Pass
NVNT	3-DH5	2480	Ant	1.294	N/A	Pass

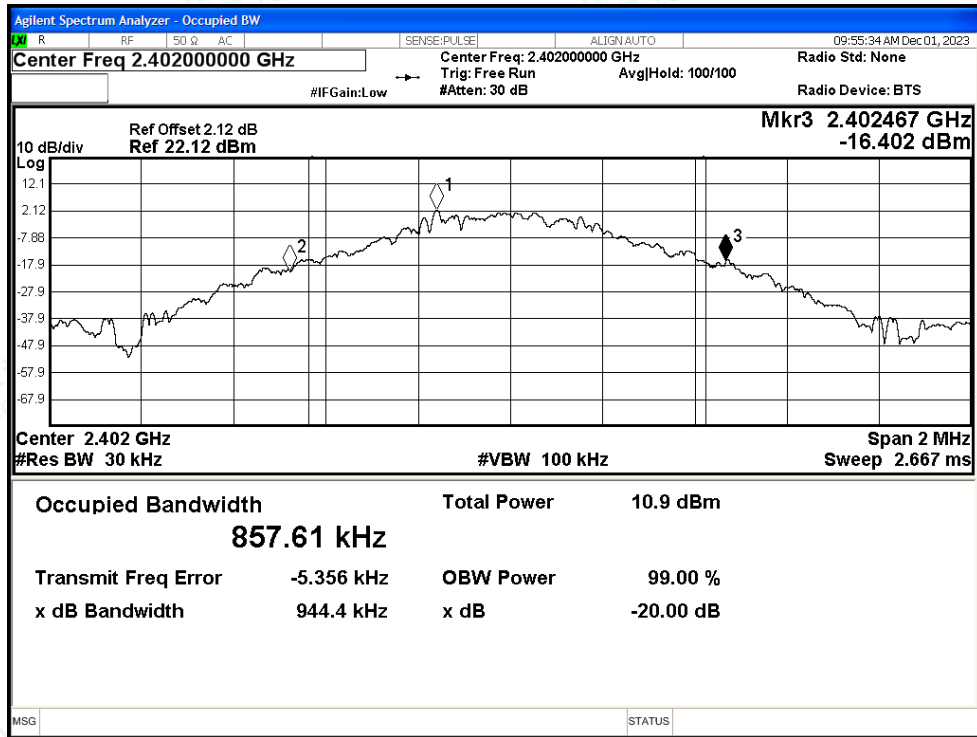


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Scan code to check authenticity

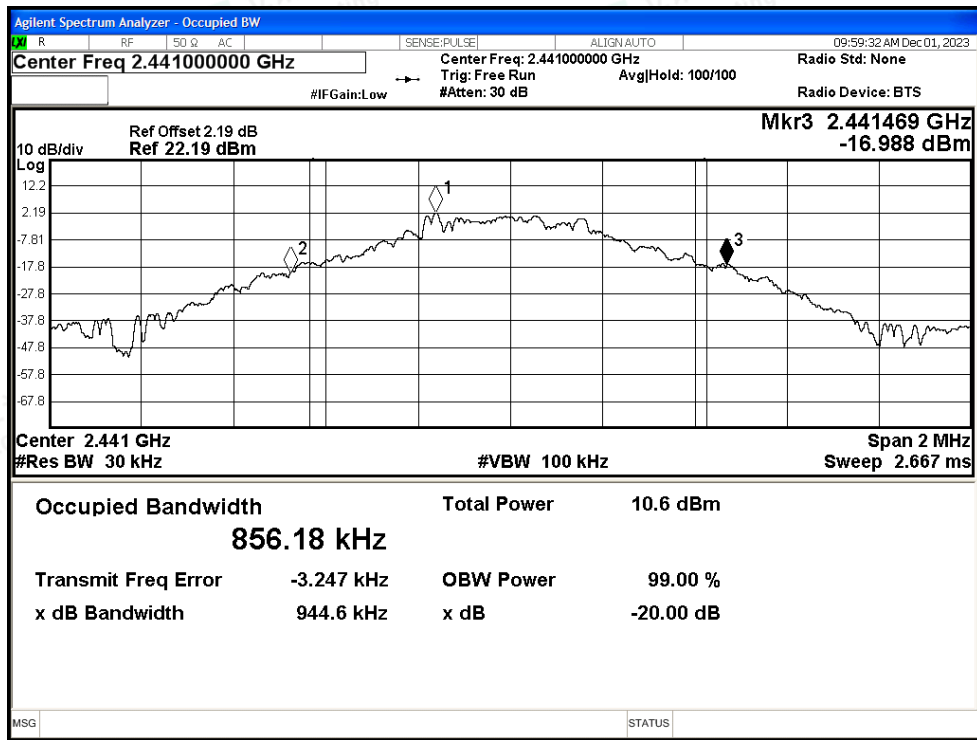


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

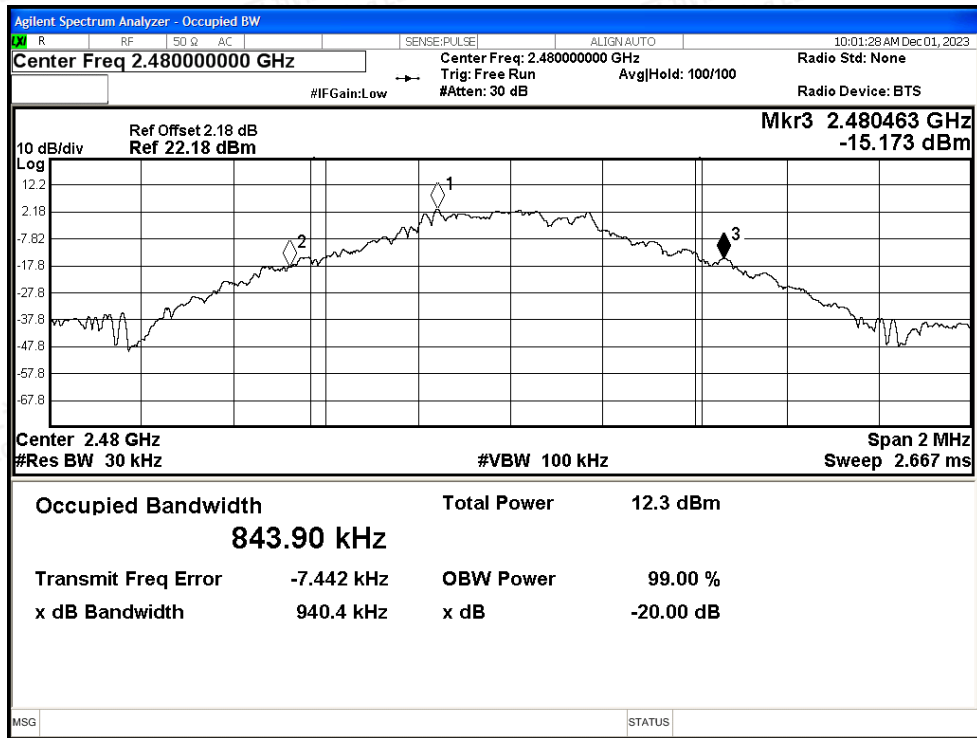


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

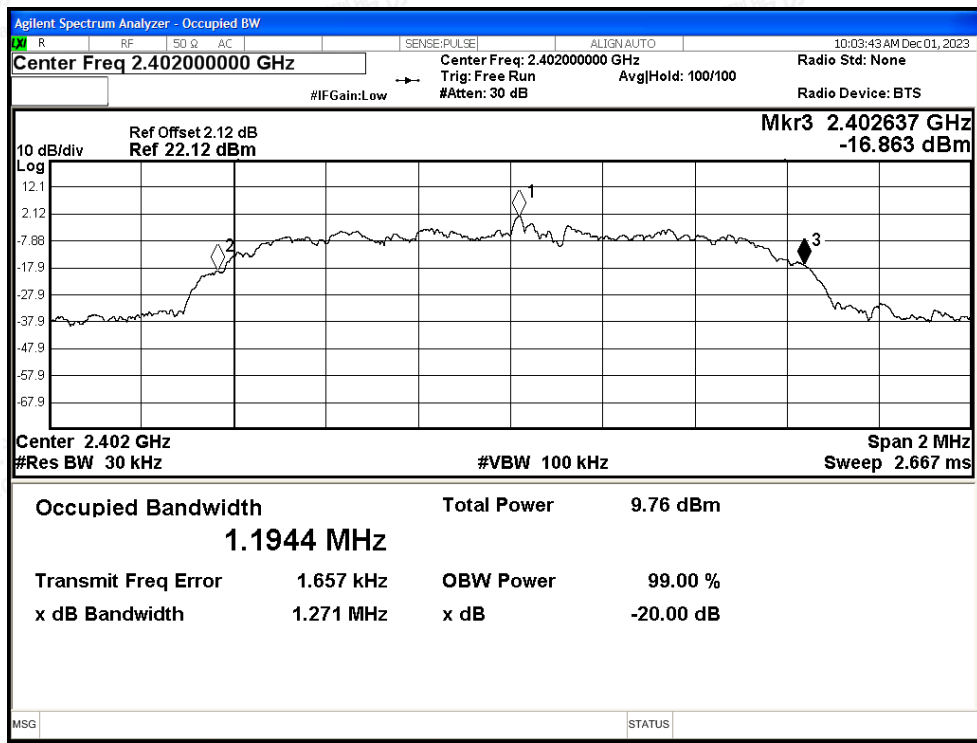




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

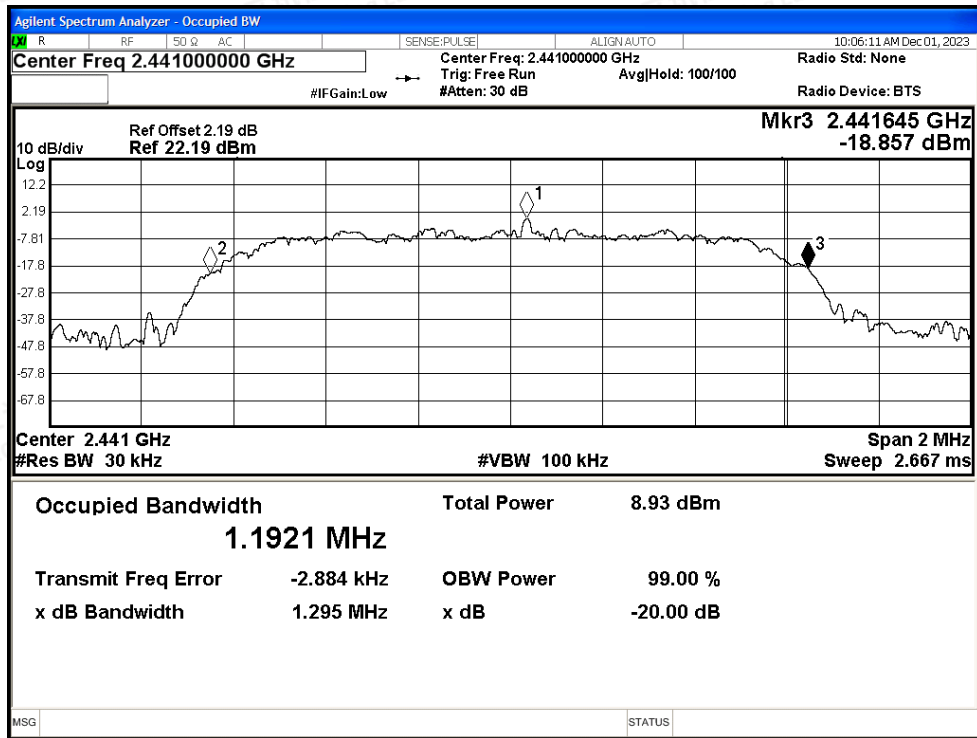


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

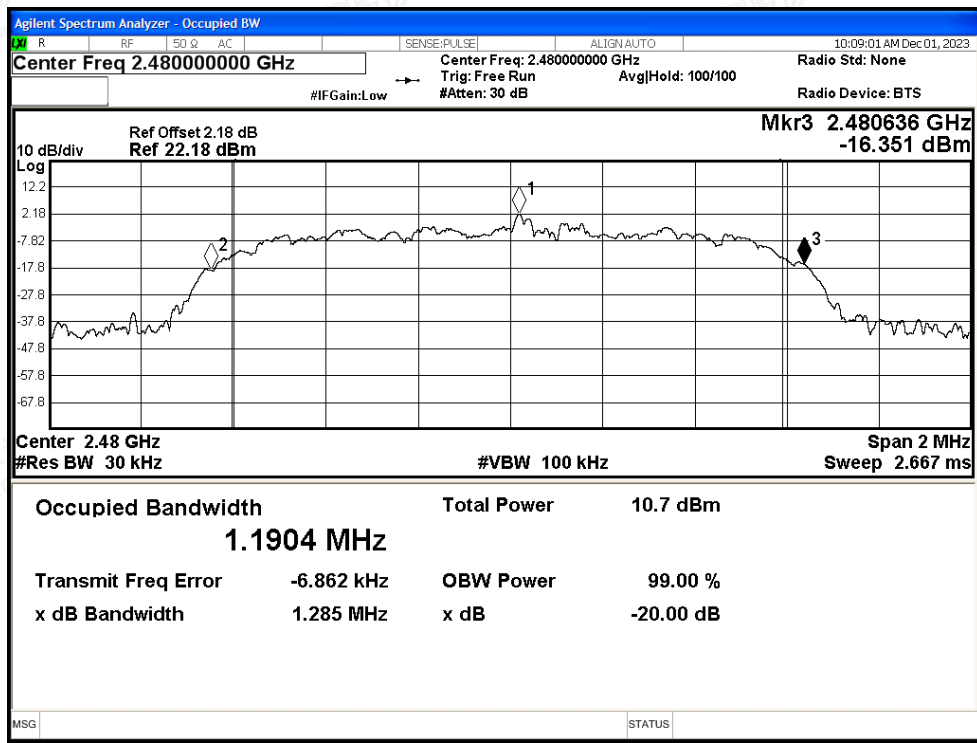




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

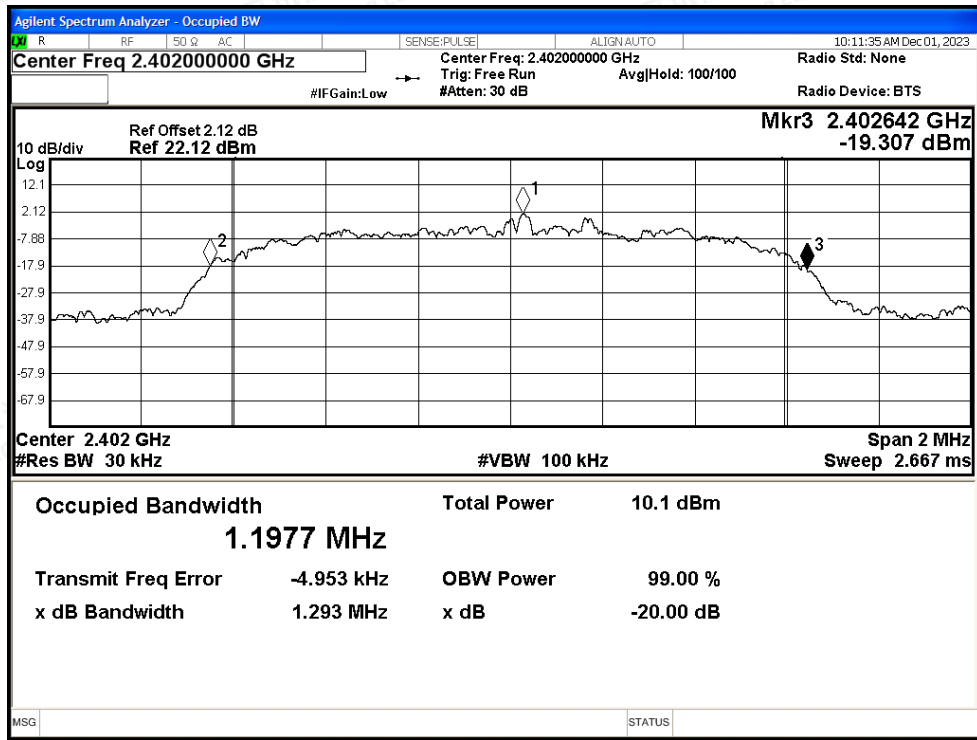


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

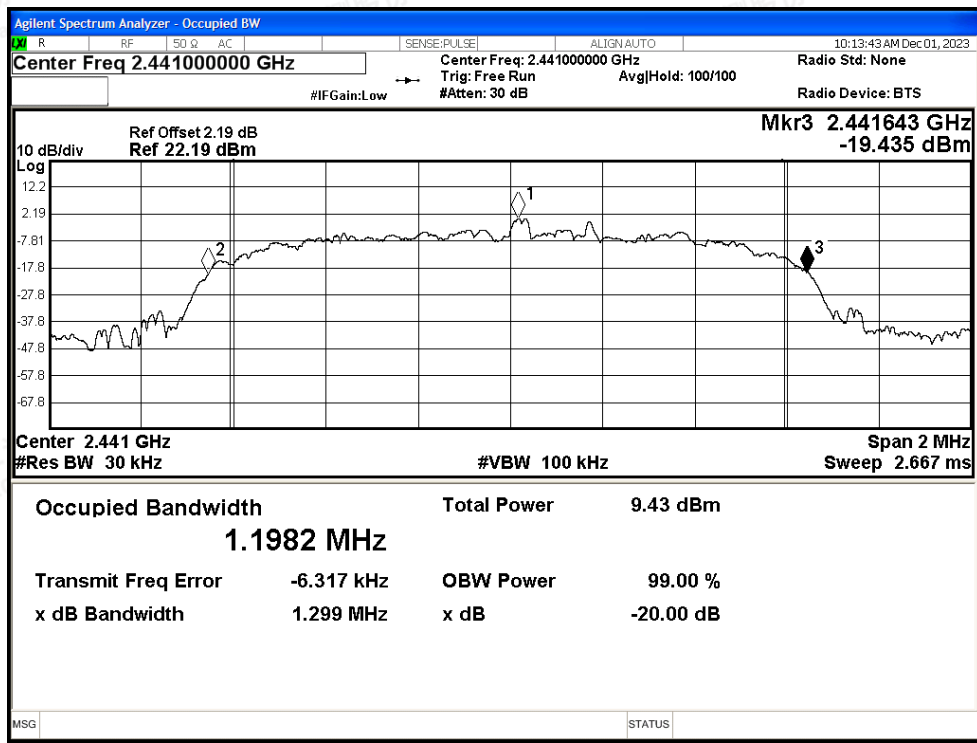




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant

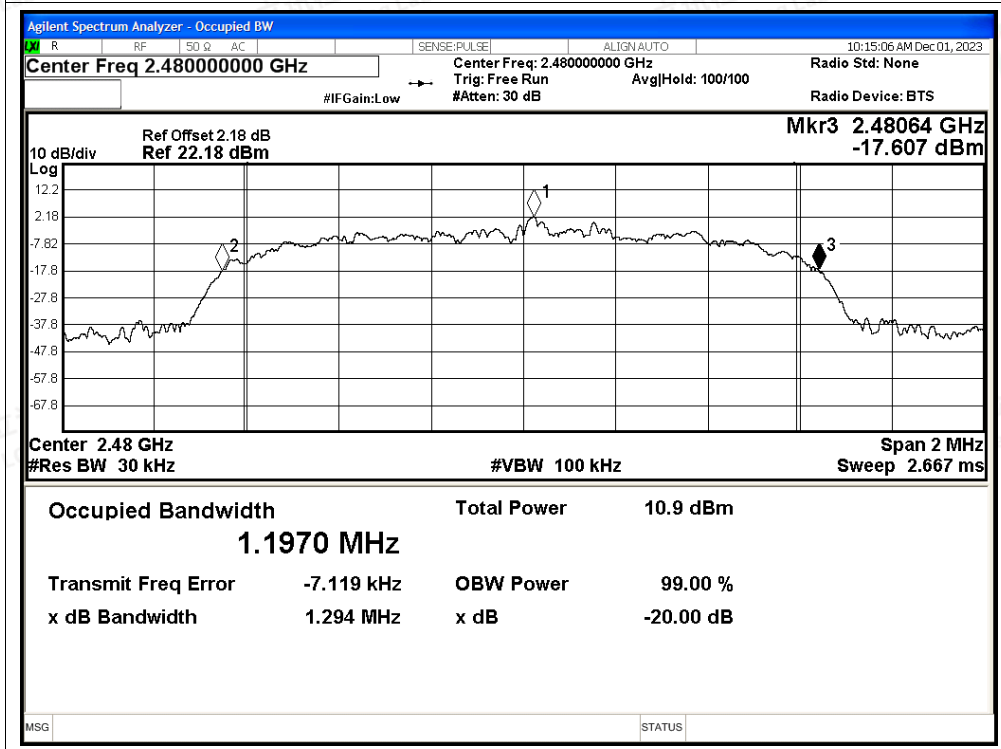


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant





-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	4.38	21	Pass
NVNT	1-DH5	2441	Ant	4.01	21	Pass
NVNT	1-DH5	2480	Ant	5.27	21	Pass
NVNT	2-DH5	2402	Ant	5.5	21	Pass
NVNT	2-DH5	2441	Ant	5.07	21	Pass
NVNT	2-DH5	2480	Ant	6.22	21	Pass
NVNT	3-DH5	2402	Ant	5.84	21	Pass
NVNT	3-DH5	2441	Ant	5.49	21	Pass
NVNT	3-DH5	2480	Ant	6.53	21	Pass

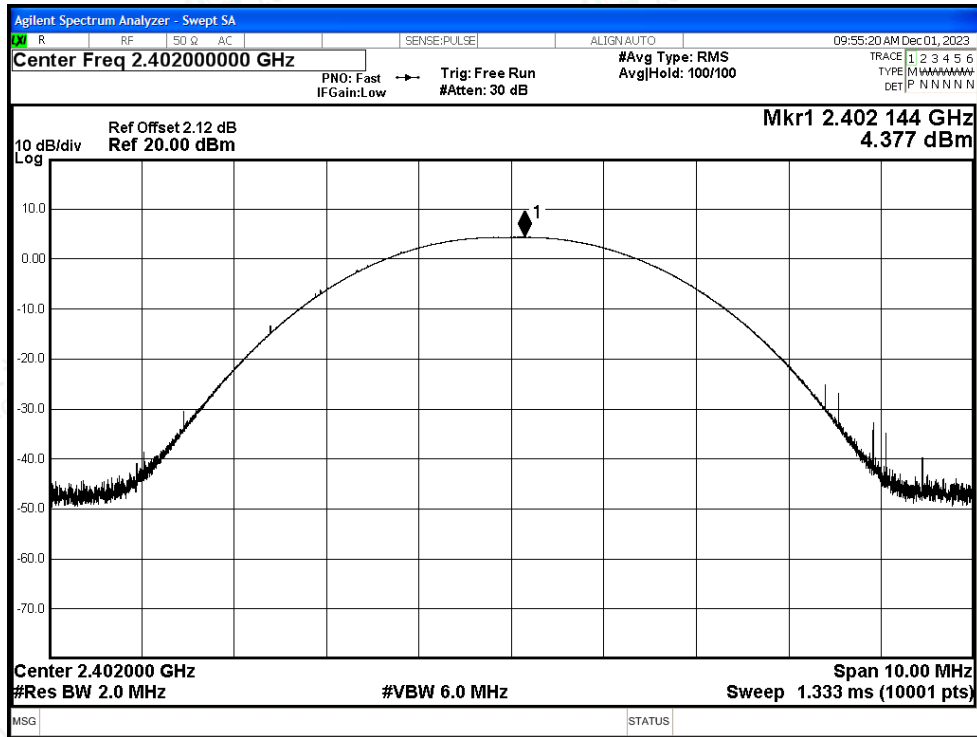


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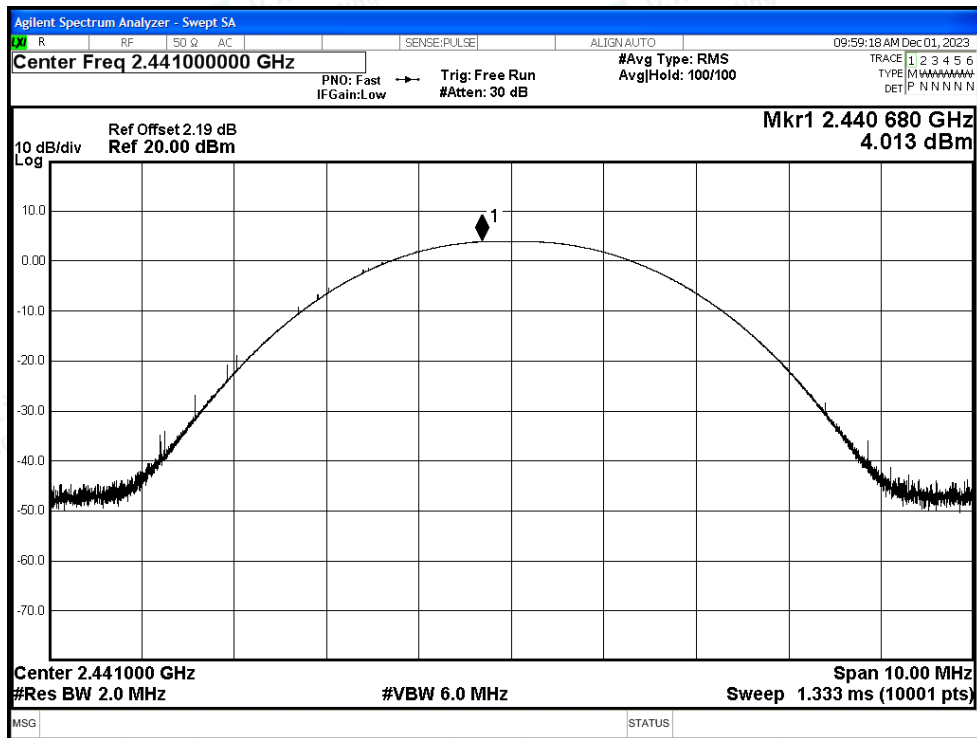


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

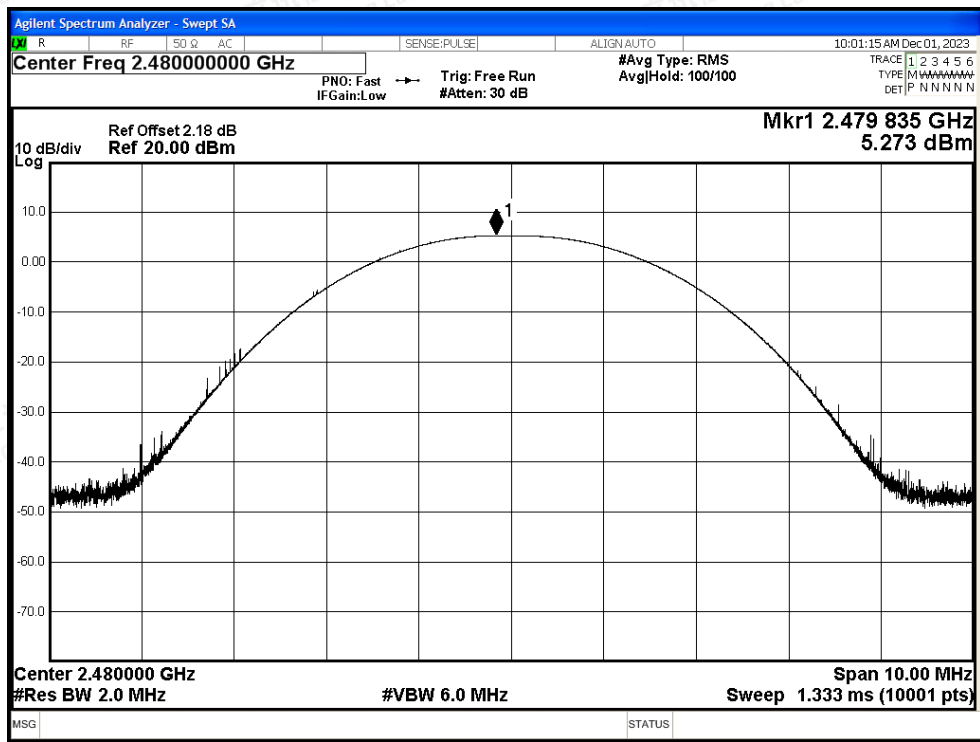


Power NVNT 1-DH5 2441MHz Ant

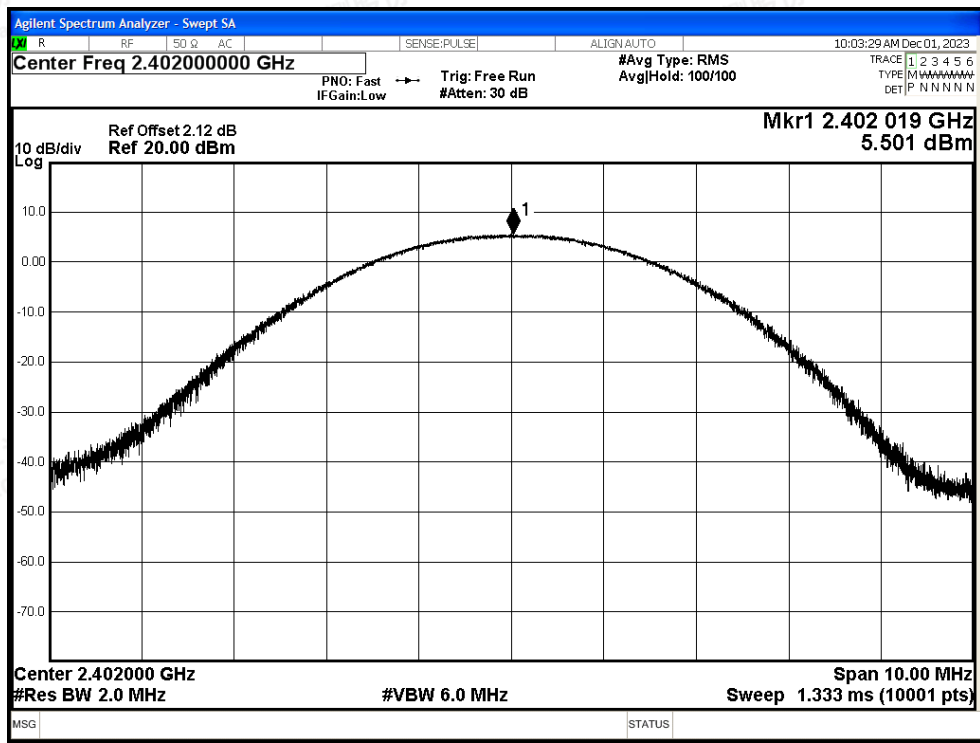




Power NVNT 1-DH5 2480MHz Ant

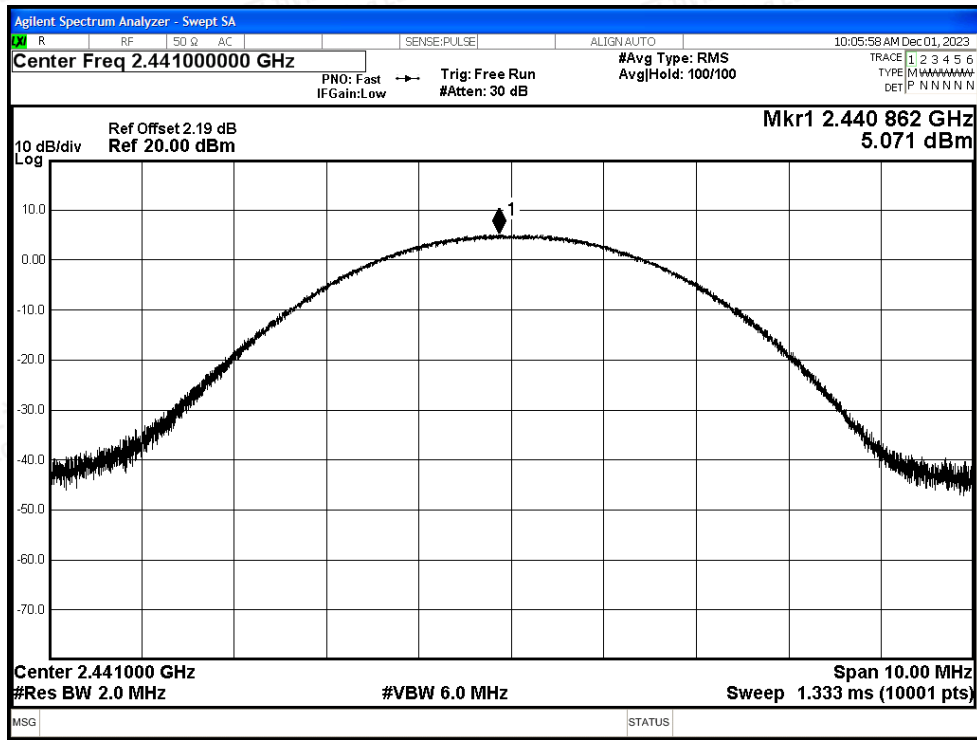


Power NVNT 2-DH5 2402MHz Ant

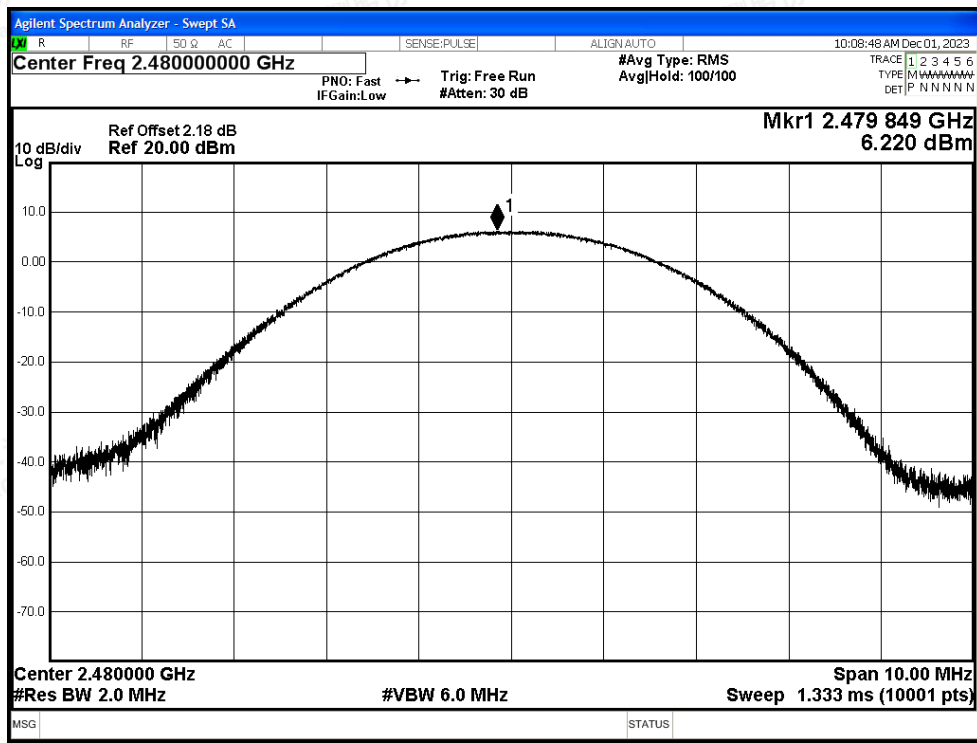




Power NVNT 2-DH5 2441MHz Ant

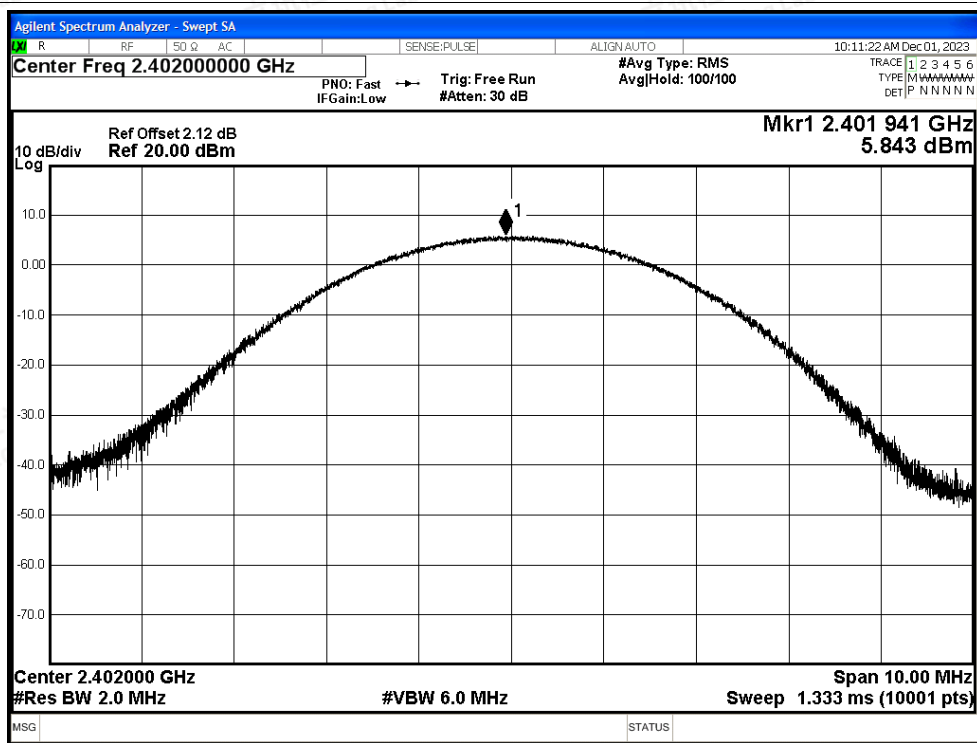


Power NVNT 2-DH5 2480MHz Ant

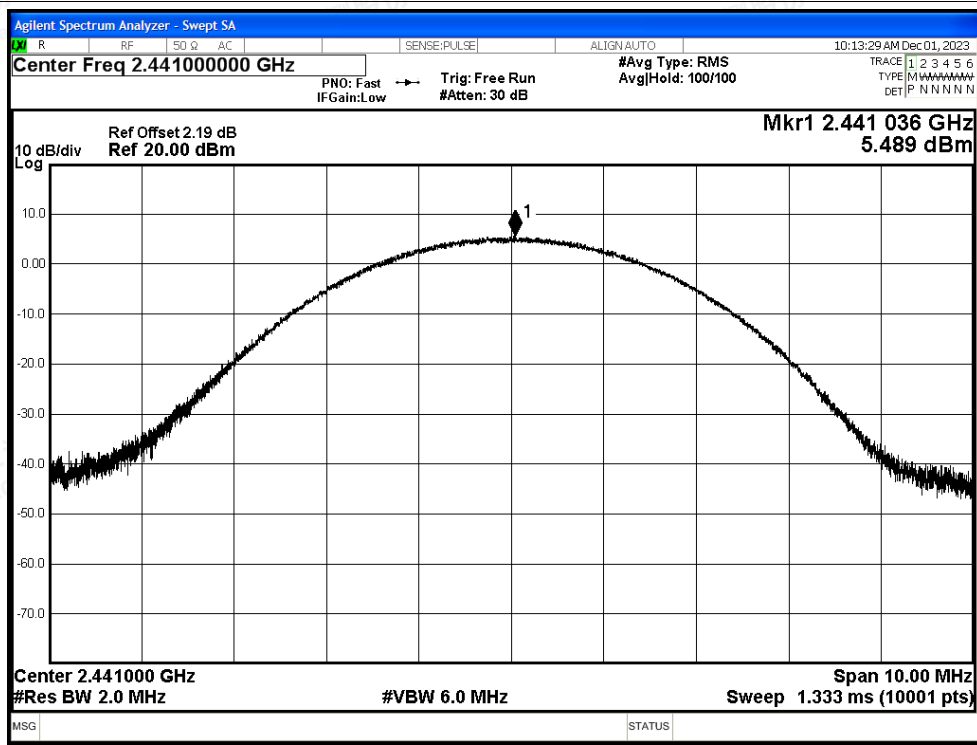




Power NVNT 3-DH5 2402MHz Ant

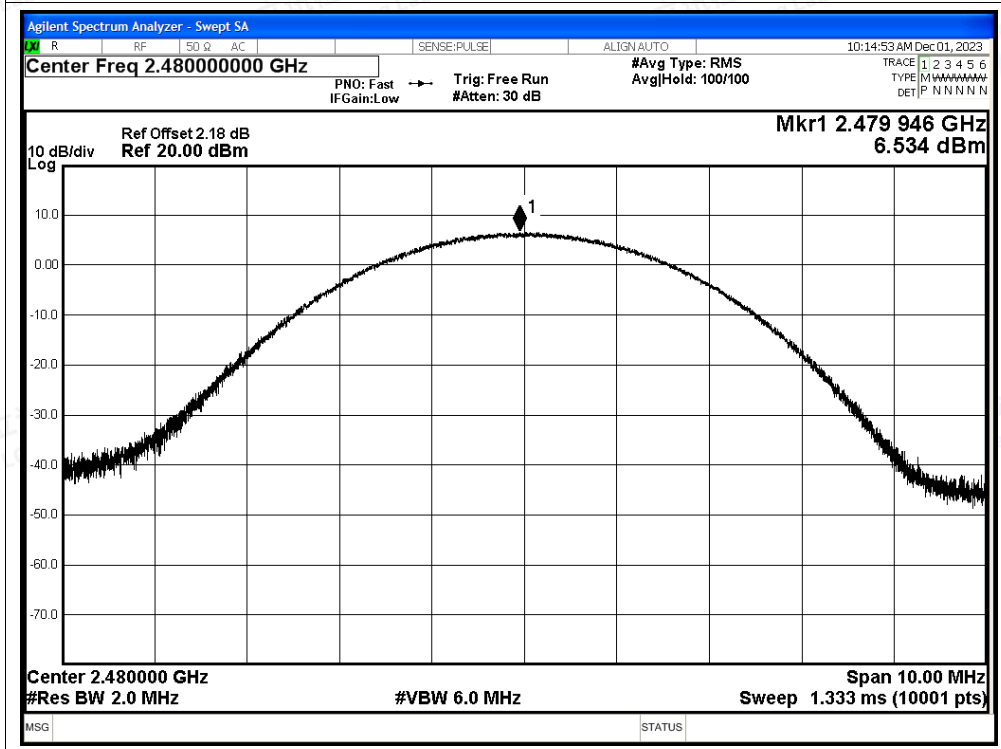


Power NVNT 3-DH5 2441MHz Ant





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	2401.824	2402.826	1.002	0.630	Pass
NVNT	2-DH5	Ant	2402.02	2403.014	0.994	0.863	Pass
NVNT	3-DH5	Ant	2402.014	2403.012	0.998	0.866	Pass

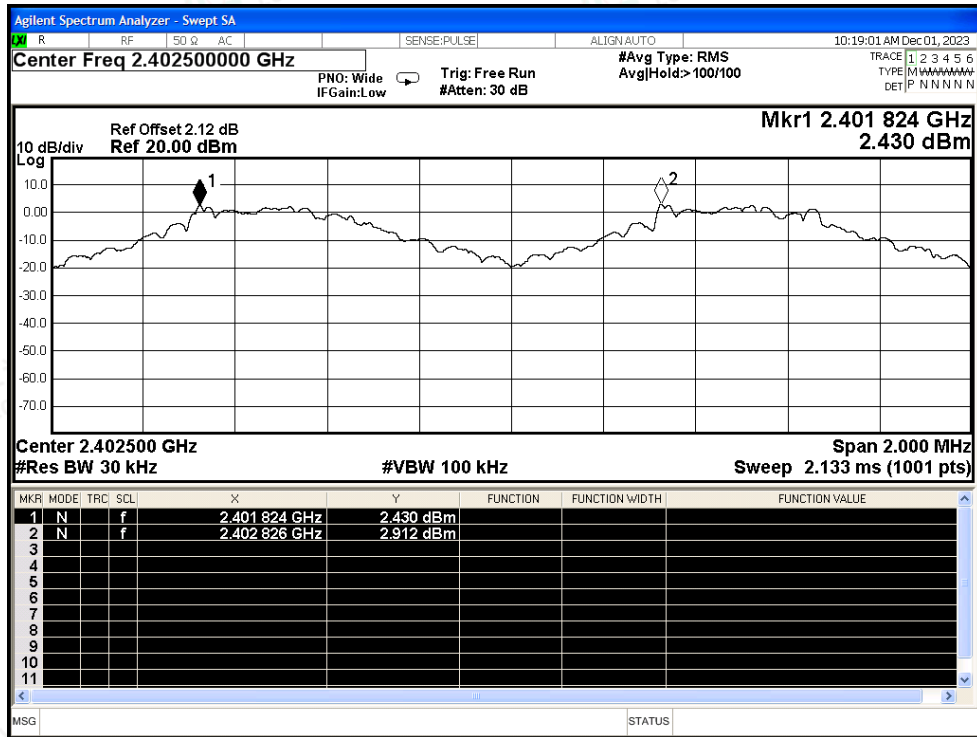


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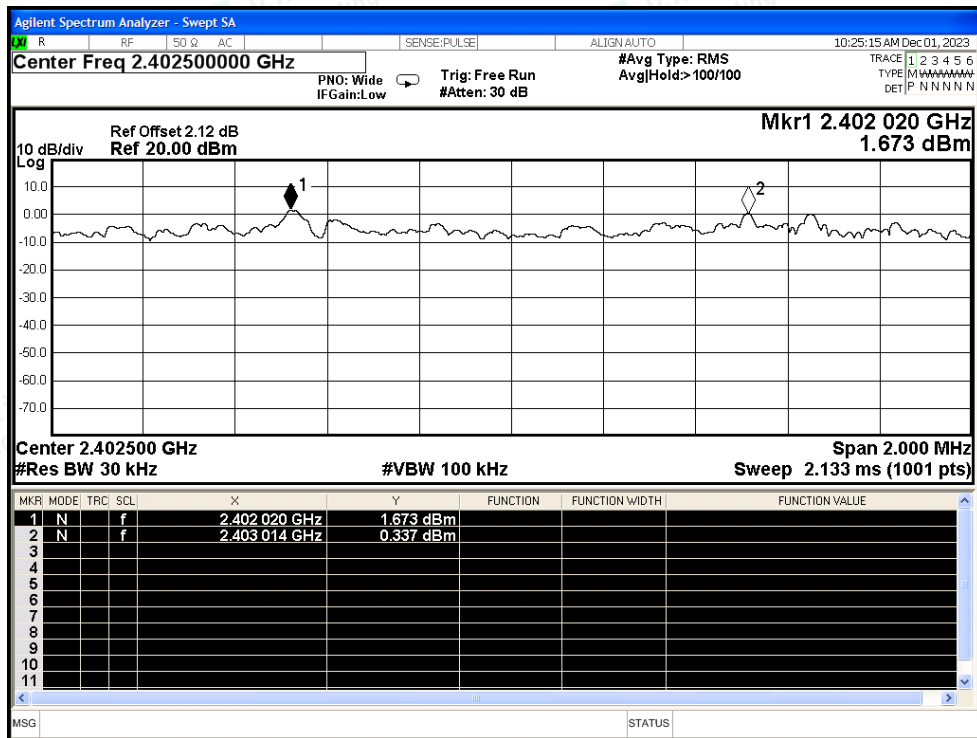


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant

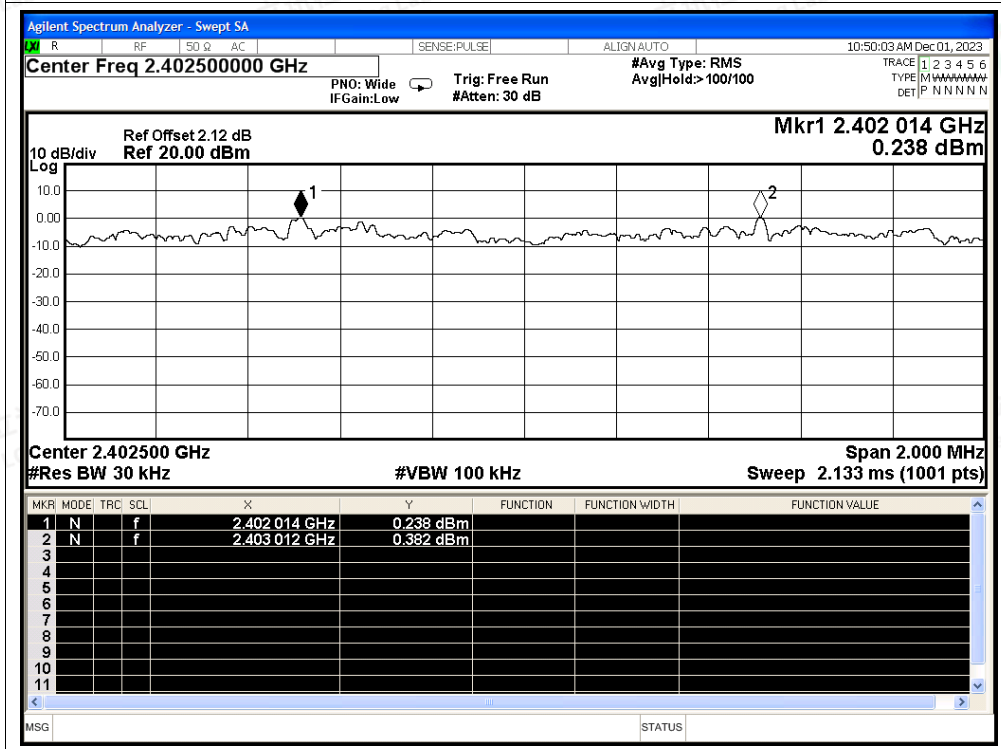


CFS NVNT 2-DH5 2402MHz Ant





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	2.884	294.168	102	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.885	328.89	114	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.883	296.949	103	31600	400	Pass

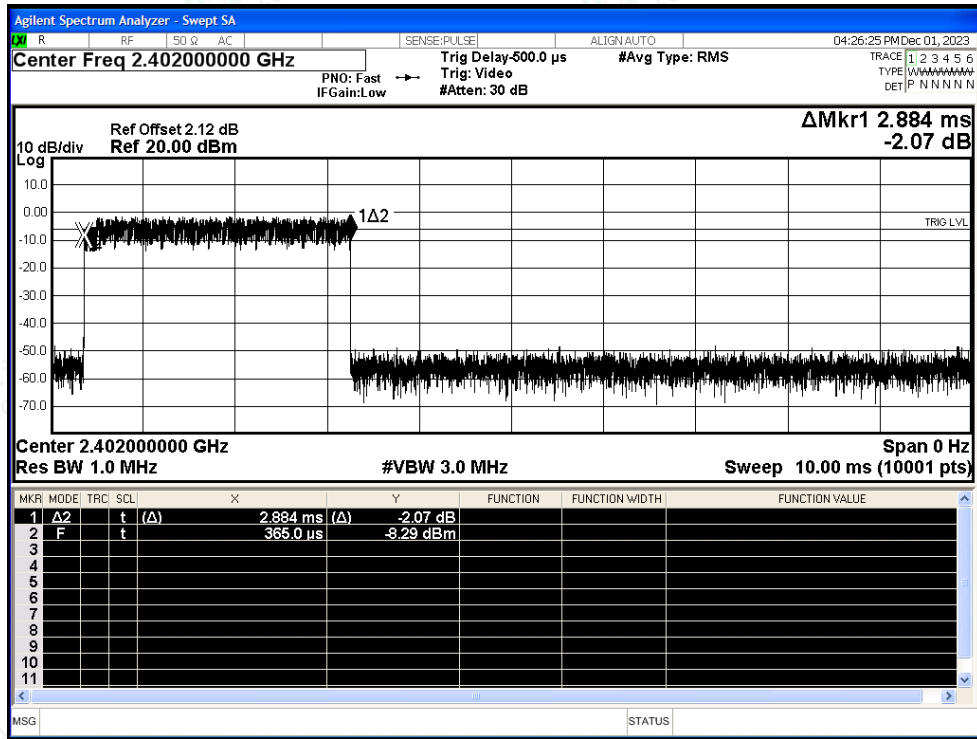


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Scan code to check authenticity

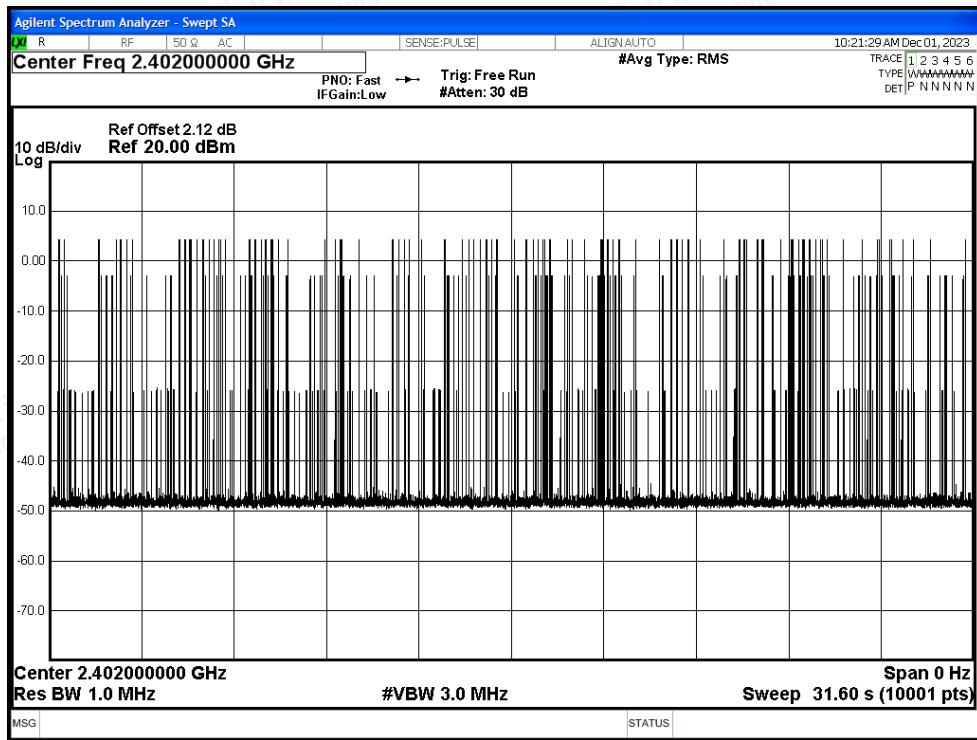


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst

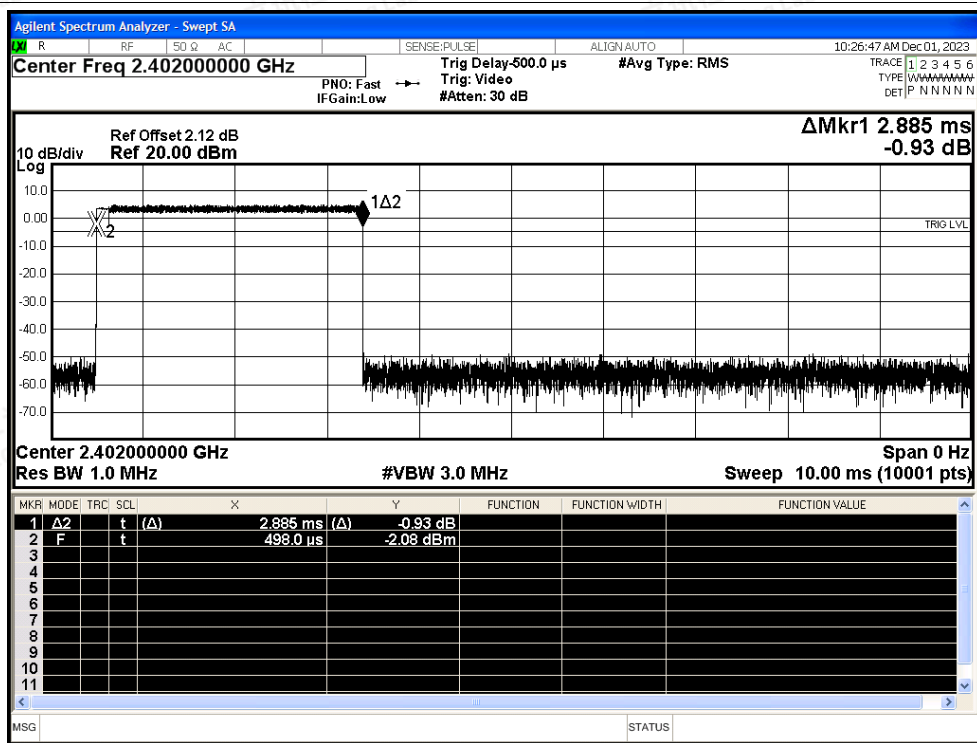


Dwell NVNT 1-DH5 2402MHz Ant Accumulated

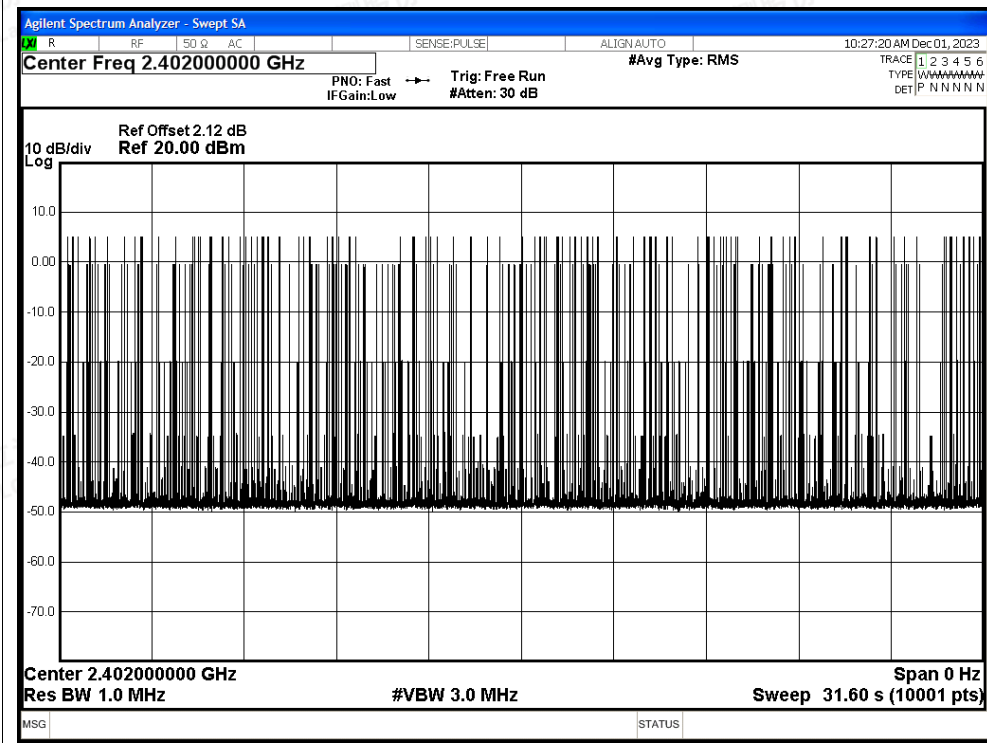




Dwell NVNT 2-DH5 2402MHz Ant One Burst

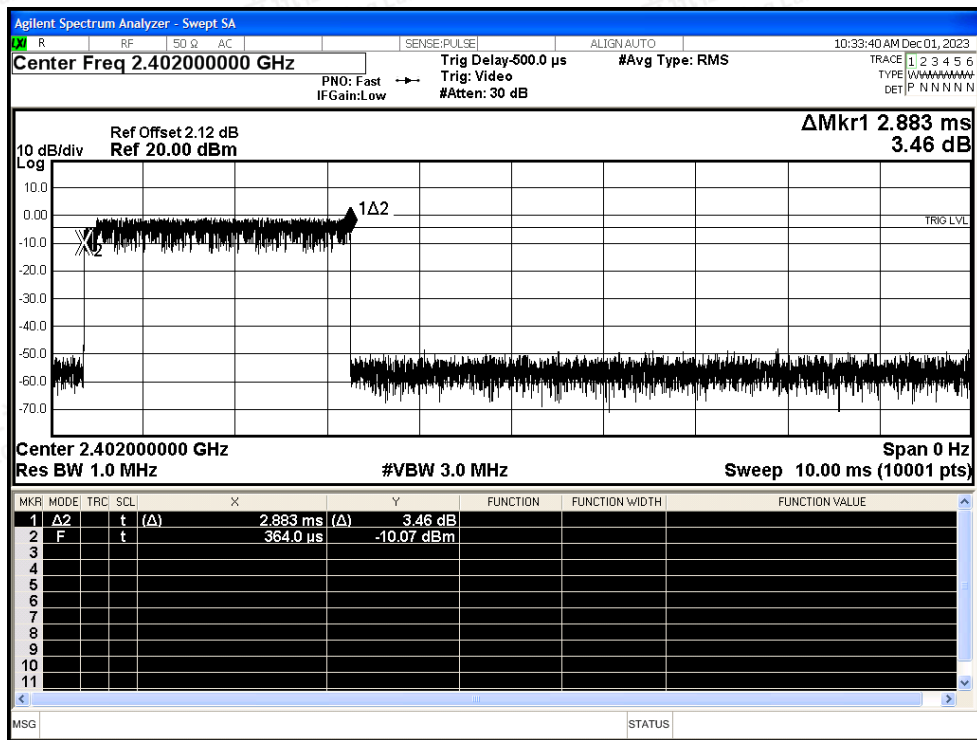


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

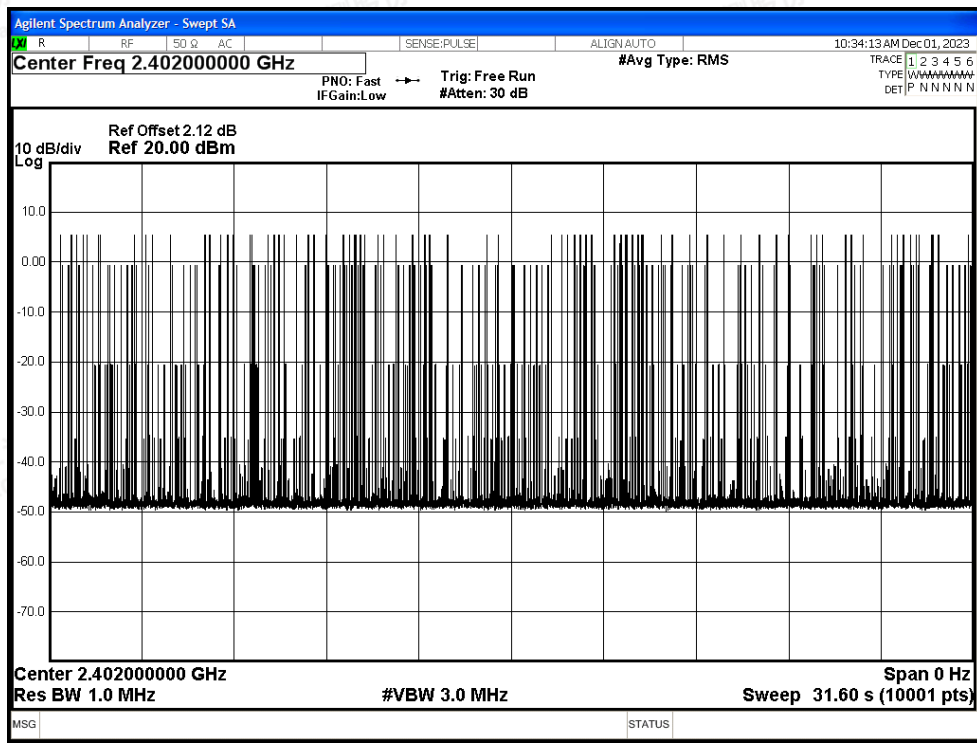




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

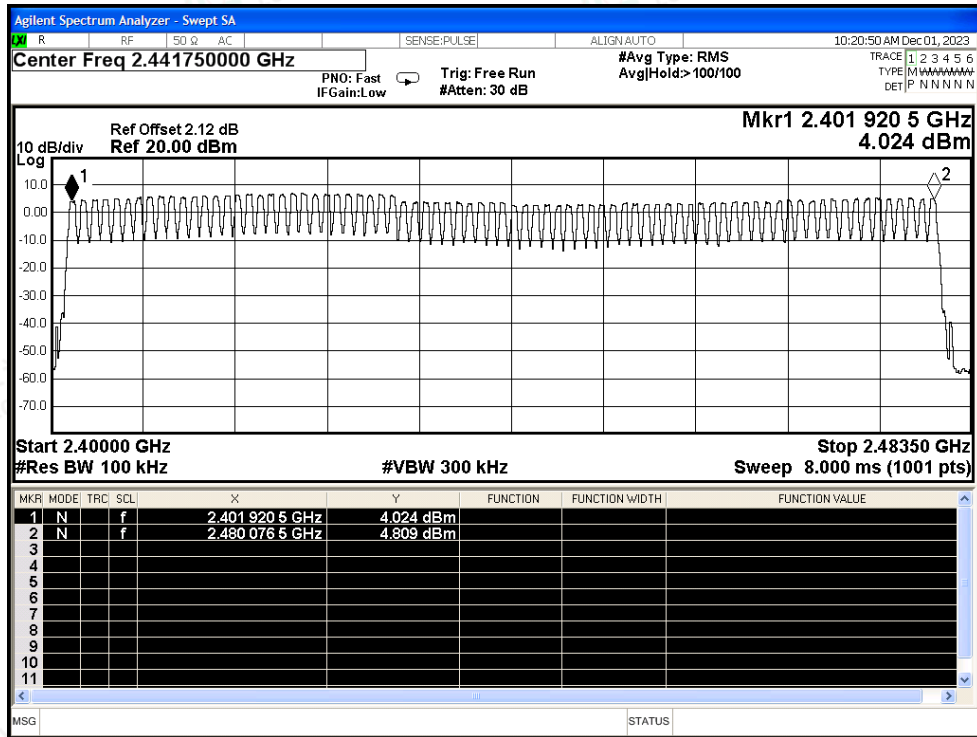
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



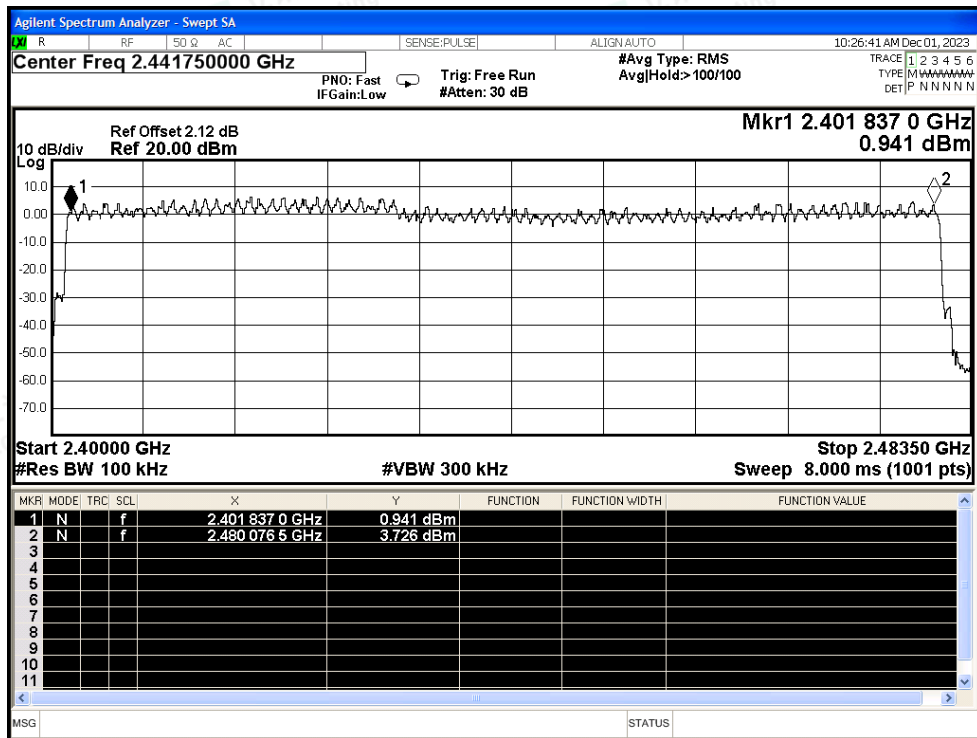


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant

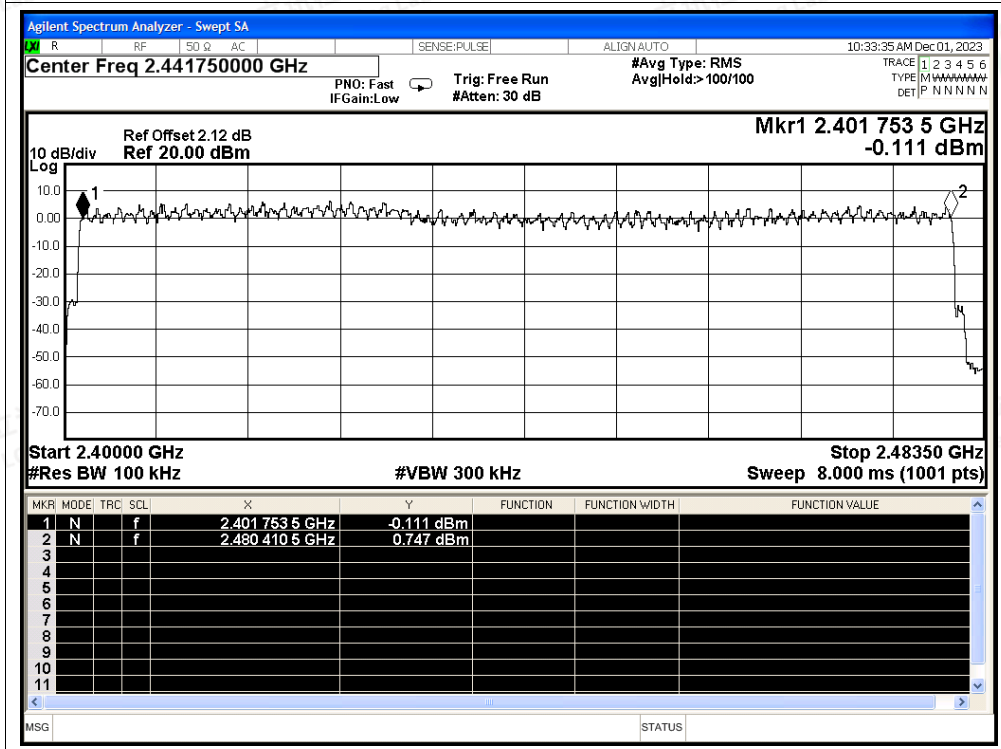


Hopping No. NVNT 2-DH5 2402MHz Ant





Hopping No. NVNT 3-DH5 2402MHz Ant





A.6 Band Edge

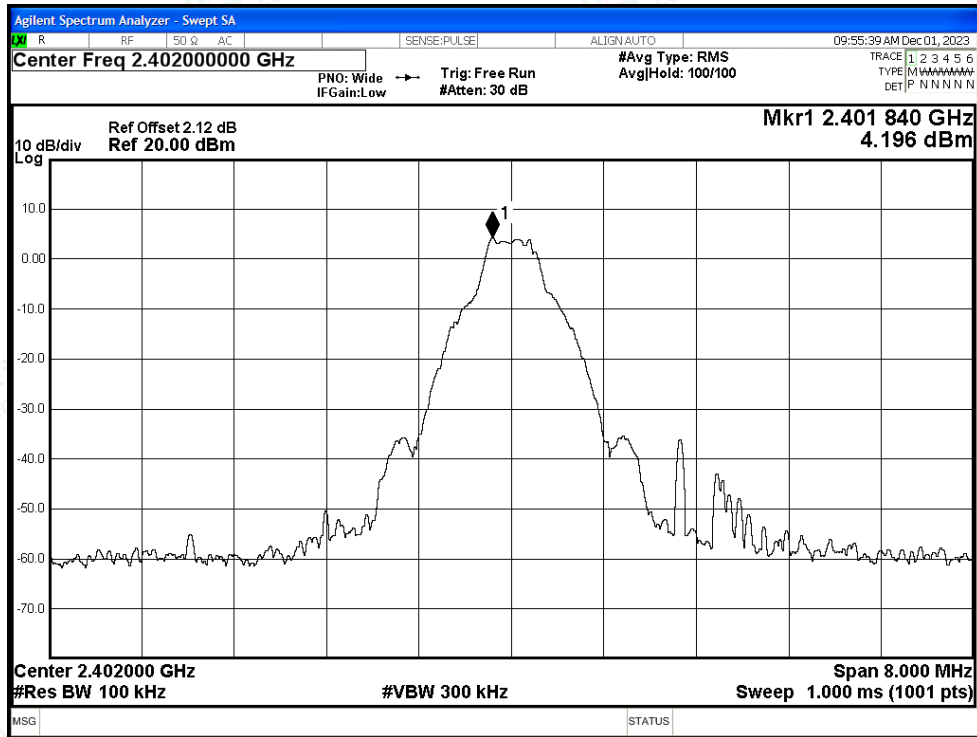
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-60.23	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-61.77	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-45.46	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-58.12	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-45.7	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-58.77	-20	Pass



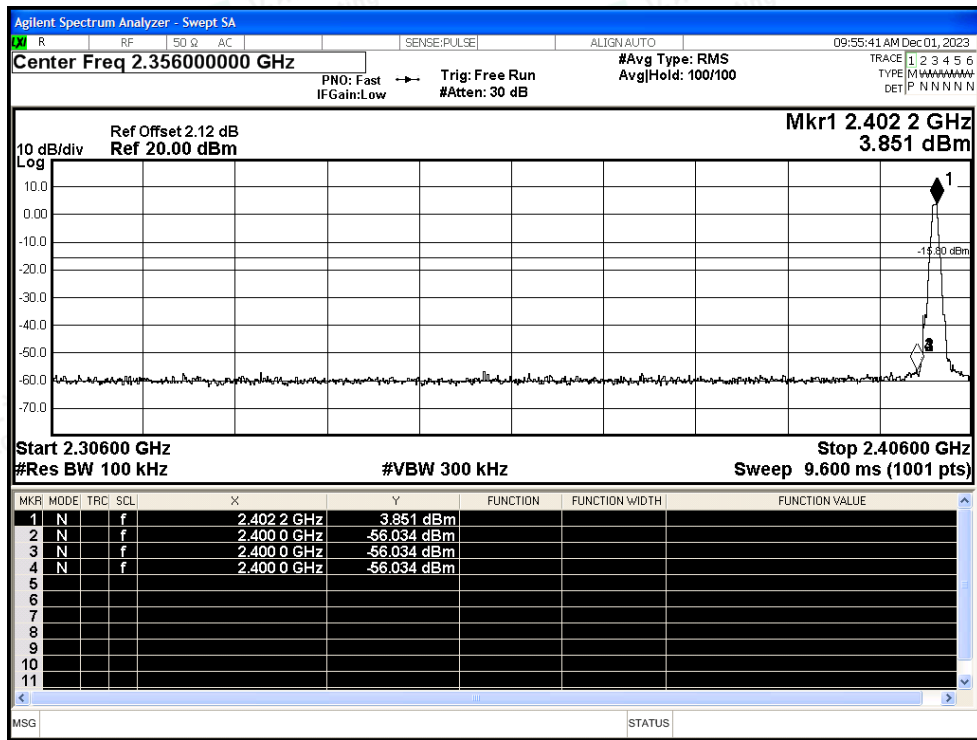


Test Graphs

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

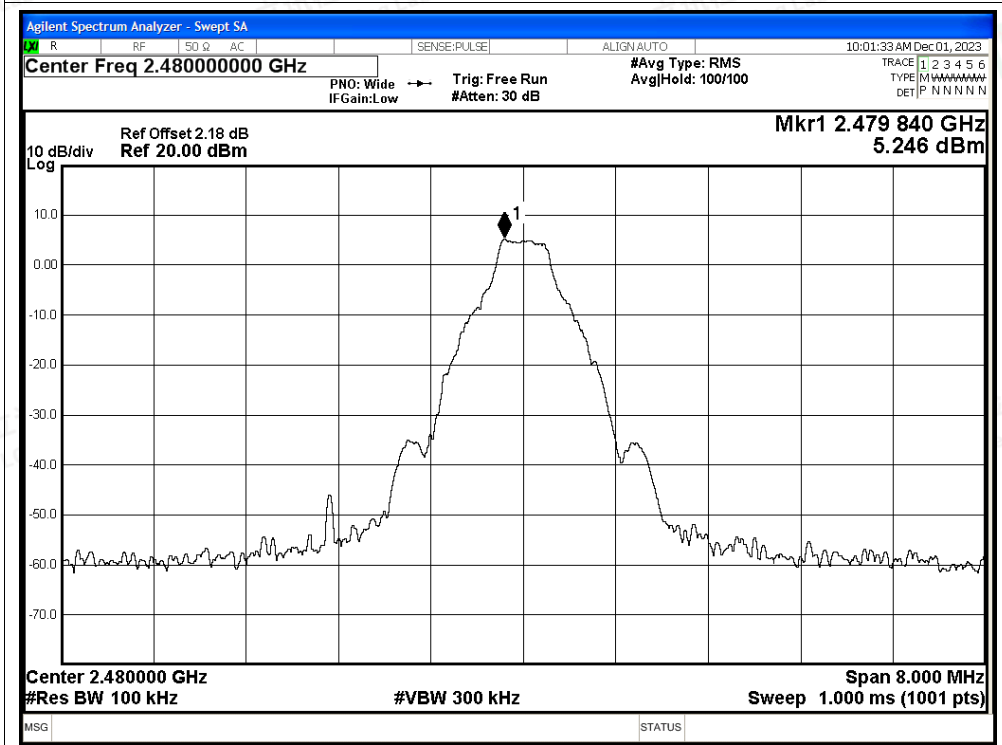


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

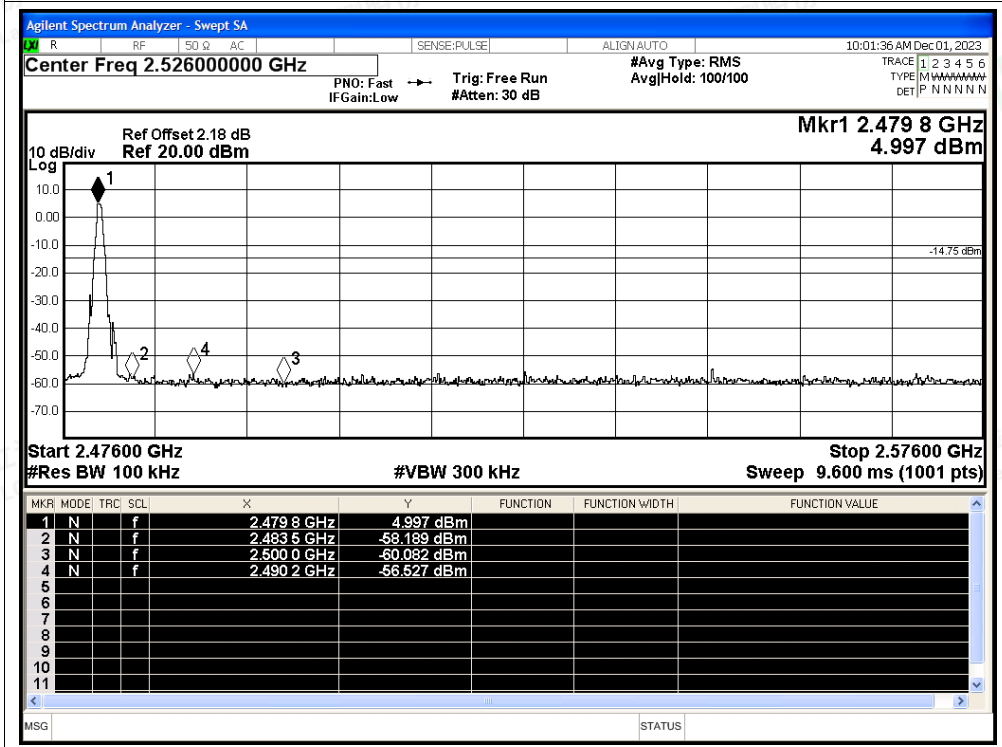




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

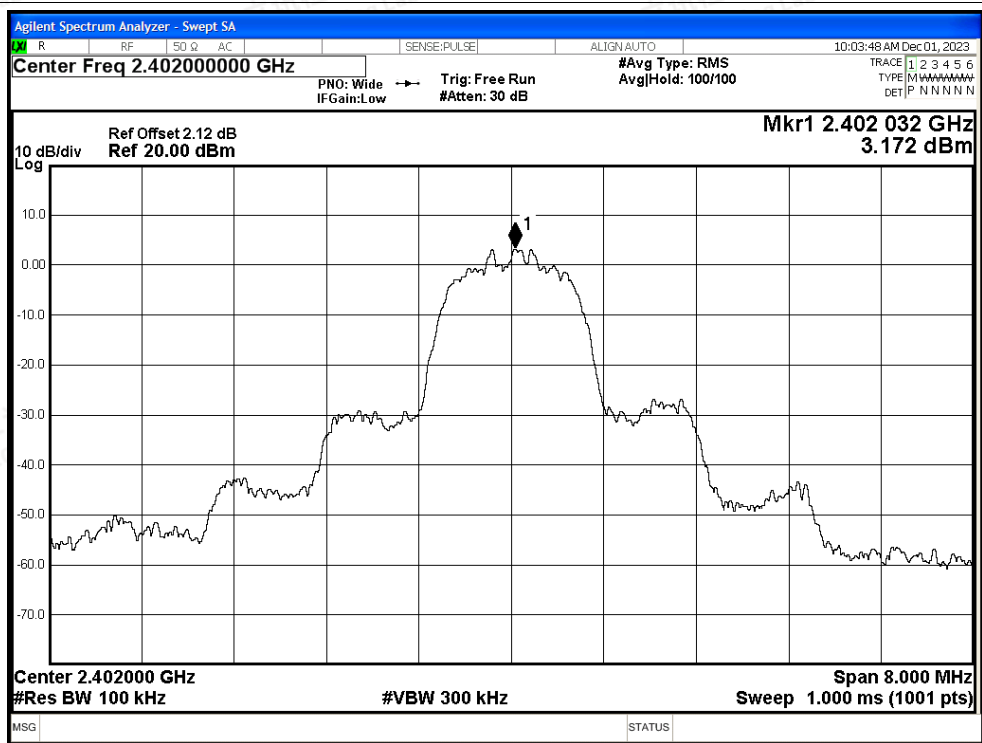


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

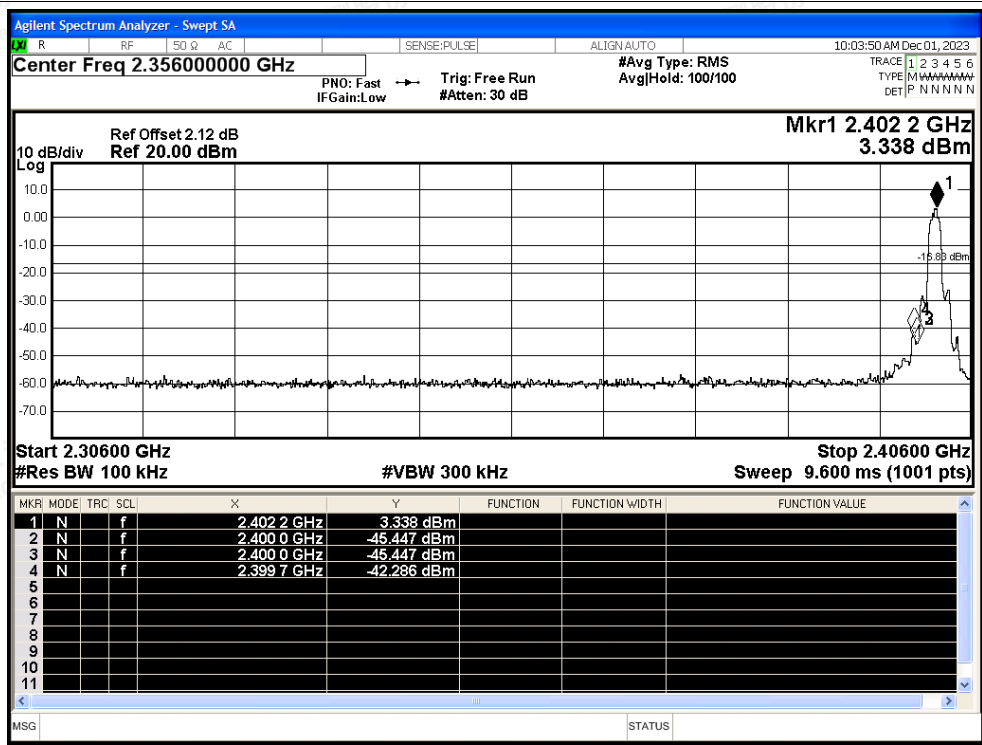




Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Ref

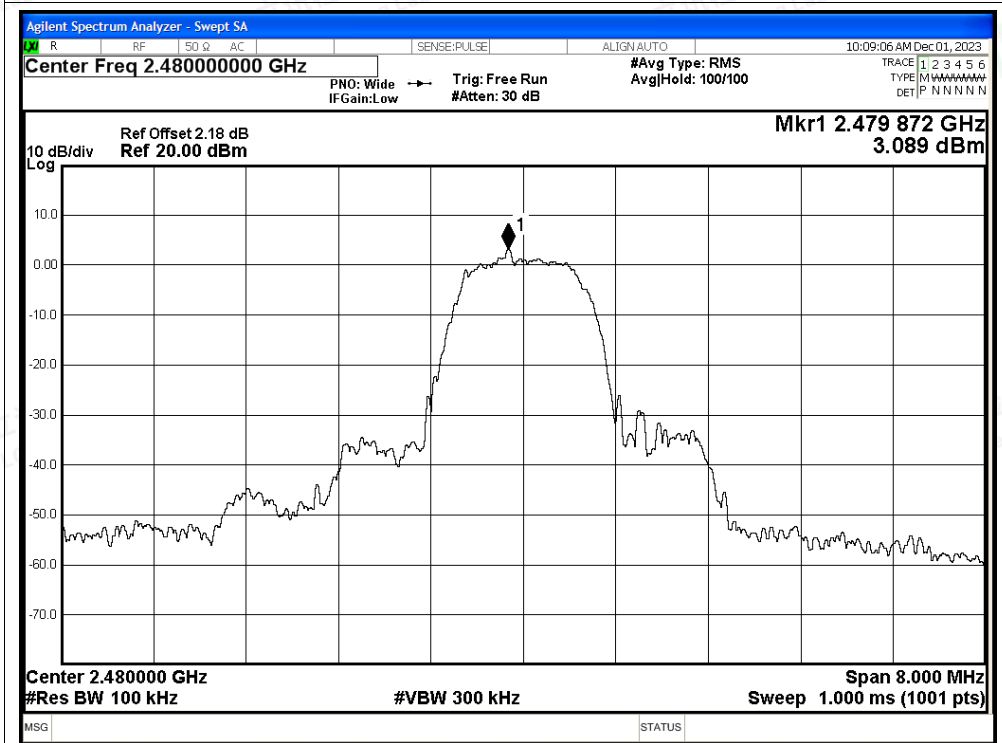


Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

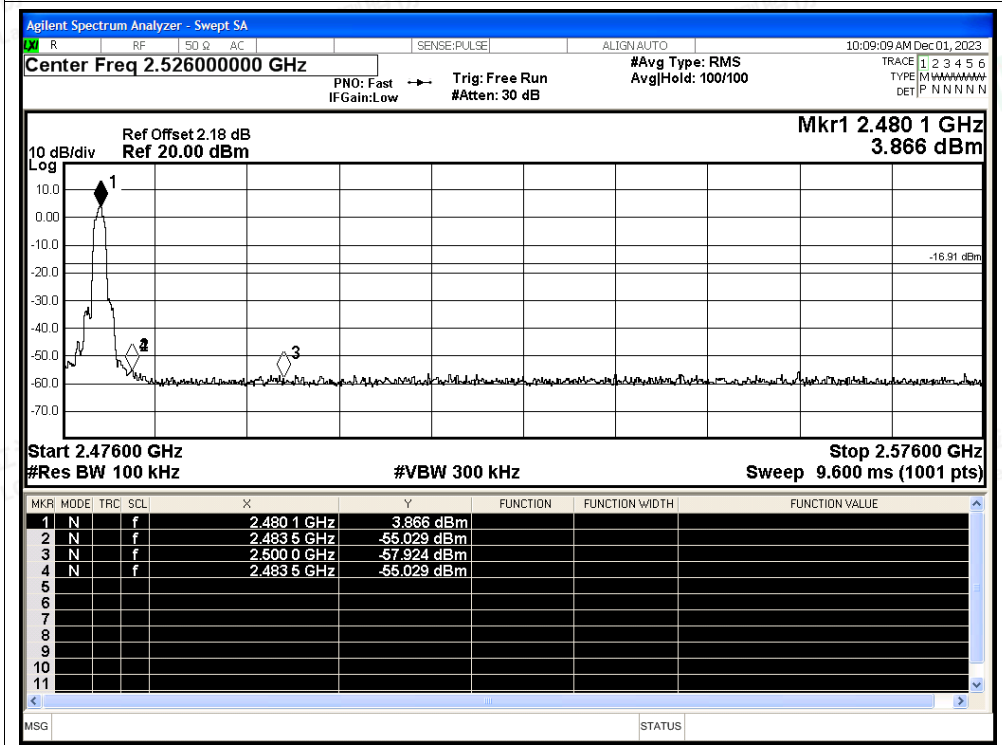




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref



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

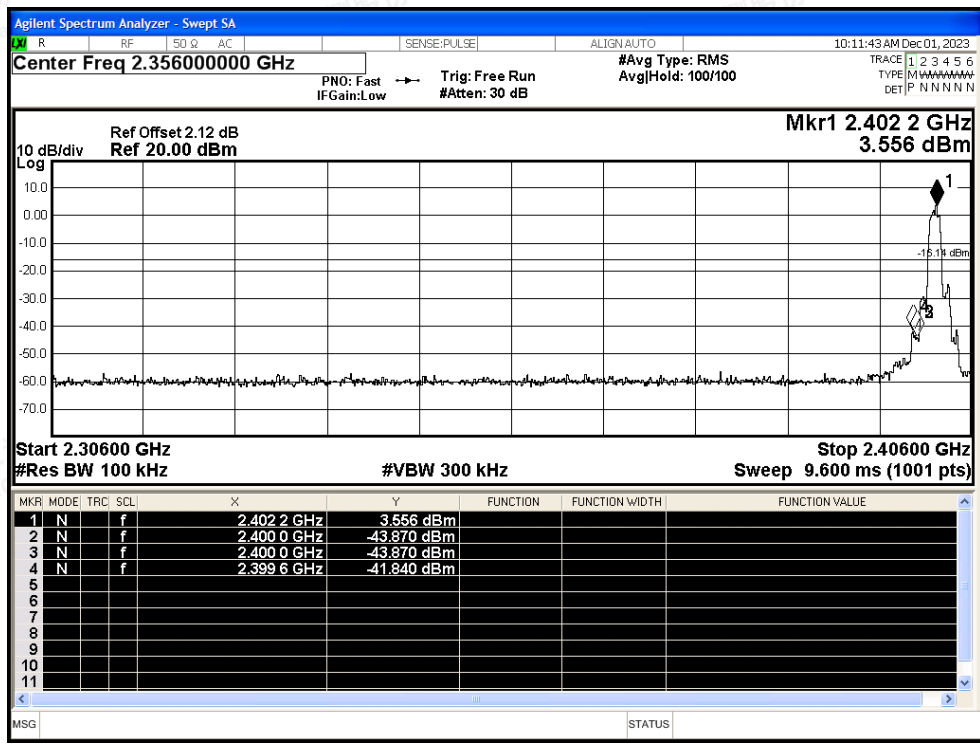




Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Ref



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

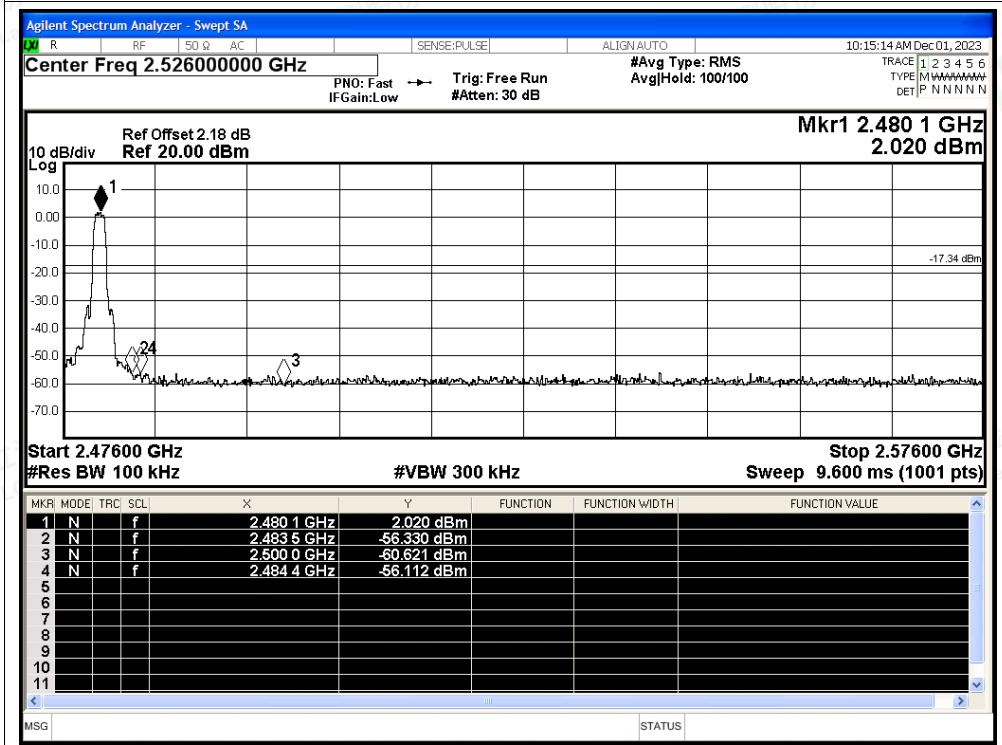




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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	-60.78	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-61.22	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-59.06	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-60.05	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-57.34	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-58.76	-20	Pass

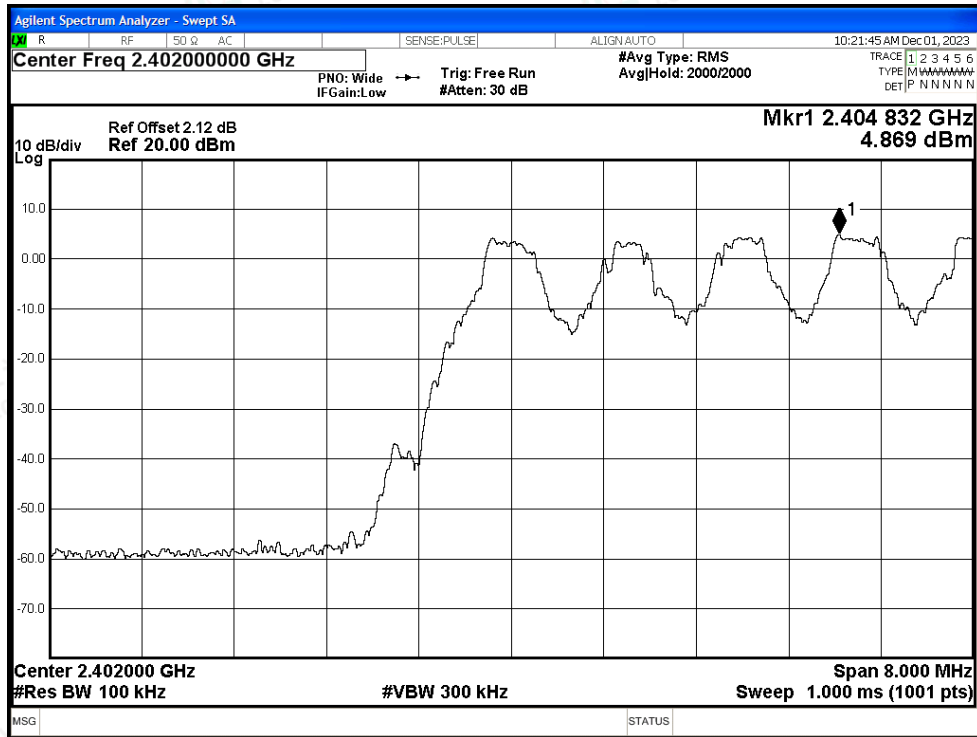


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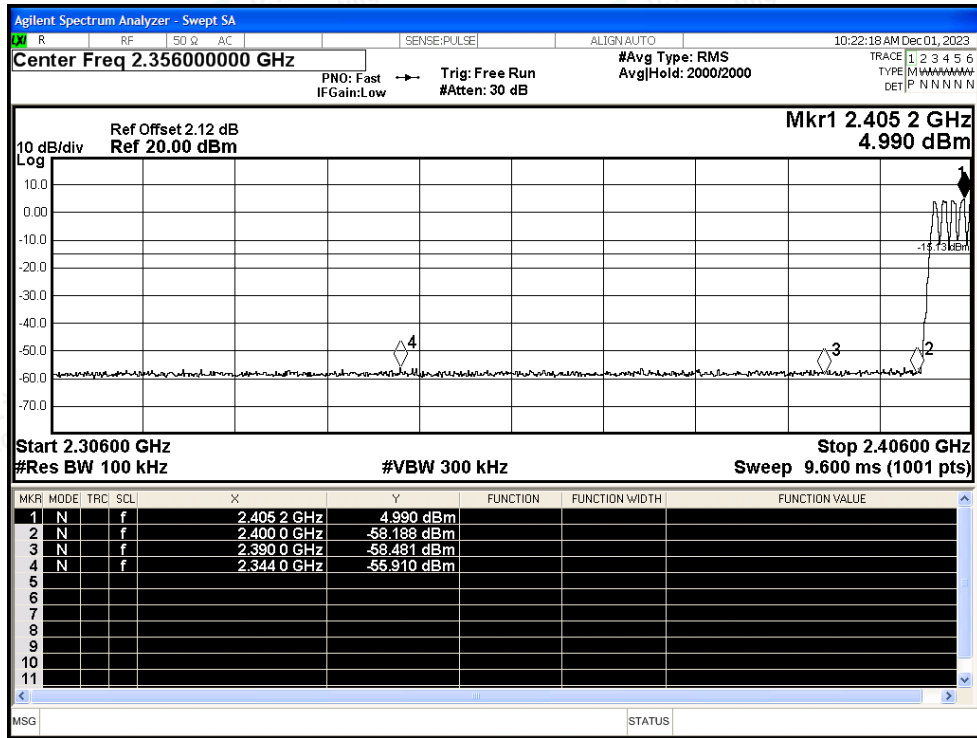


Test Graphs

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

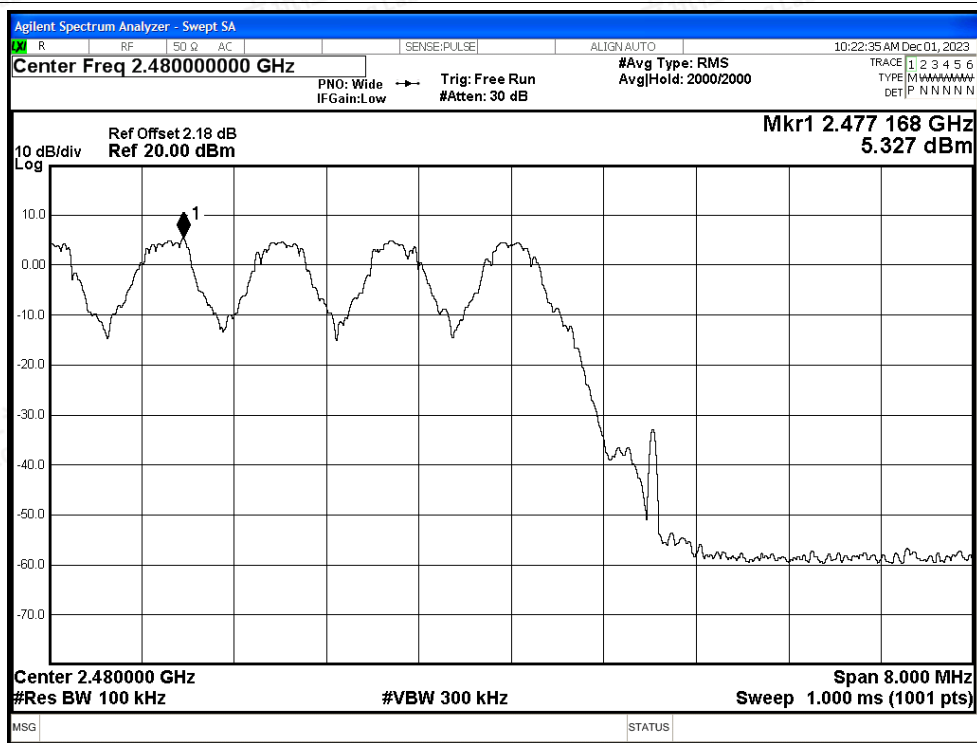


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

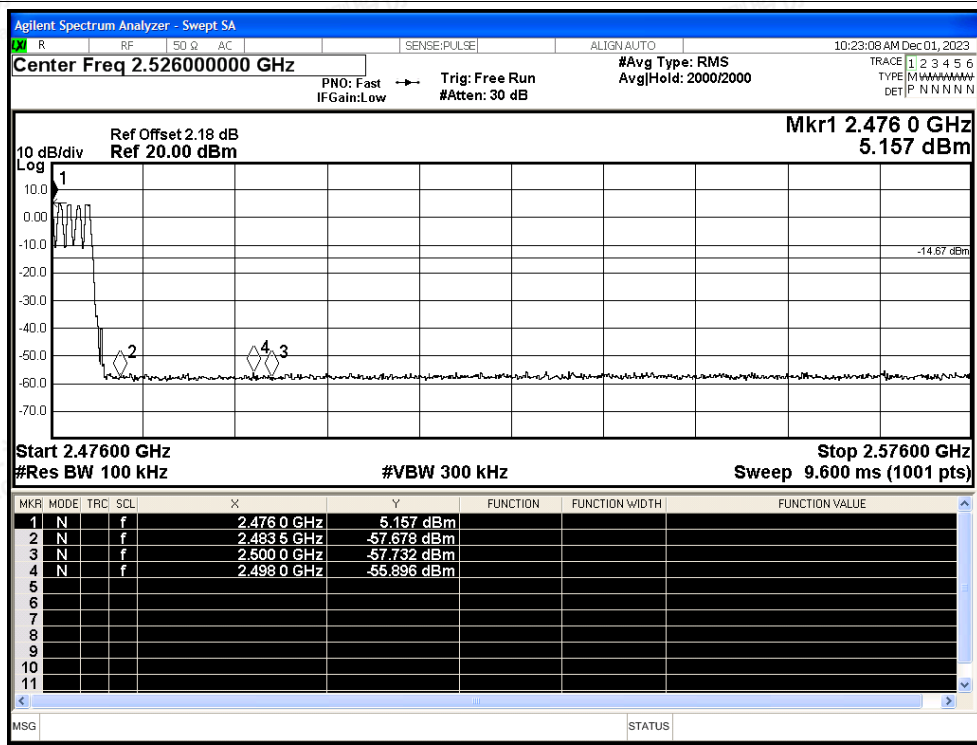




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref



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

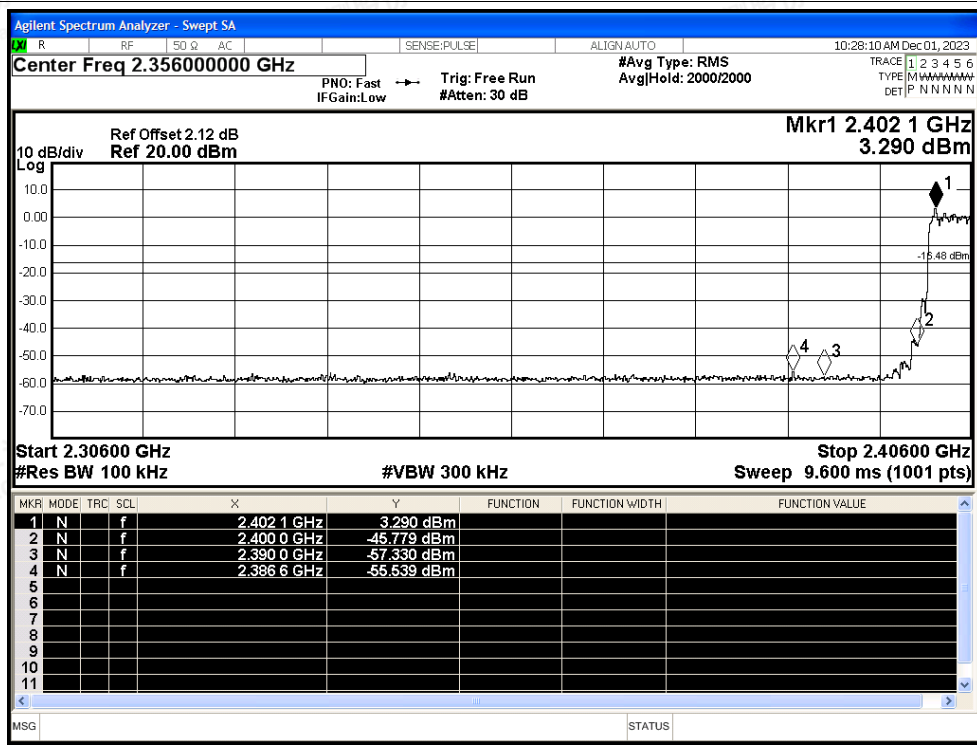




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

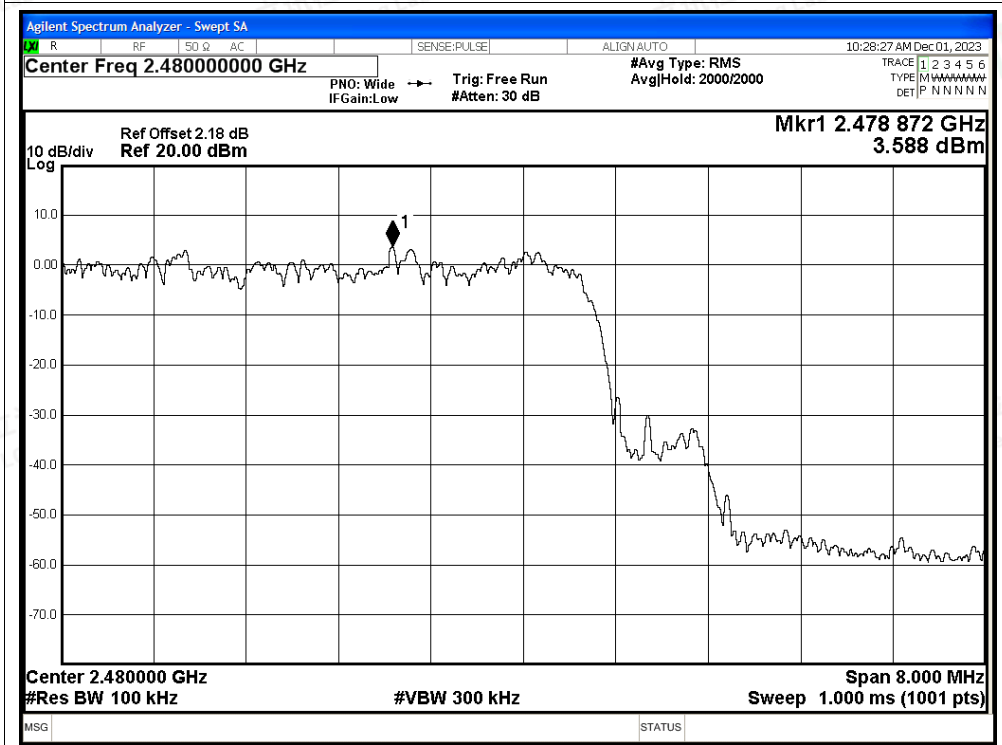


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

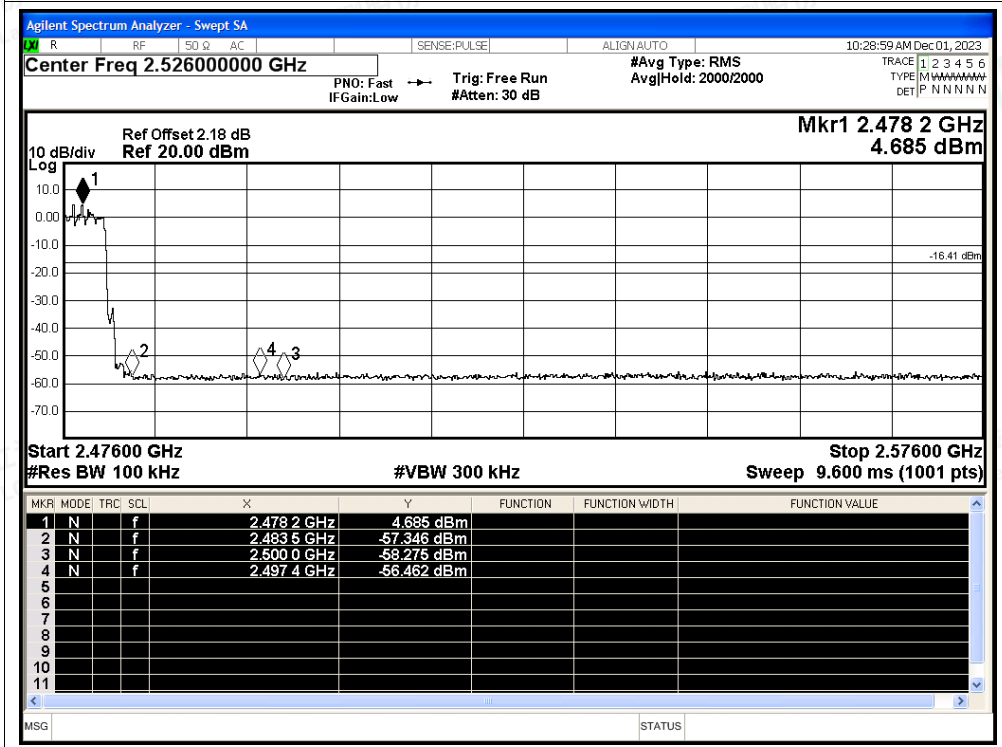




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref



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

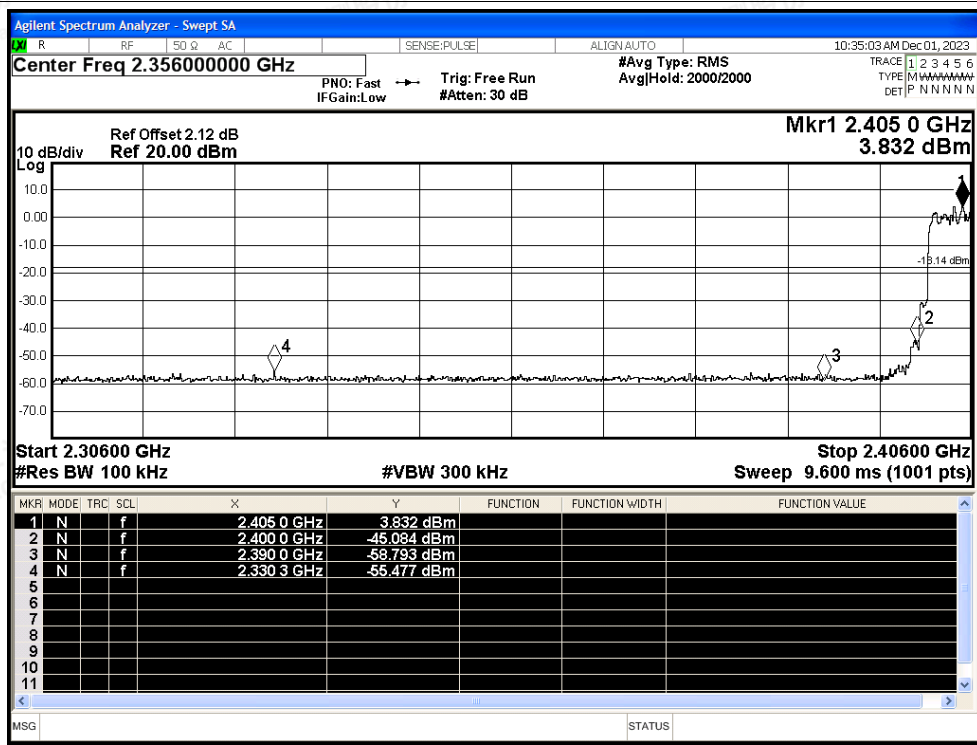




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

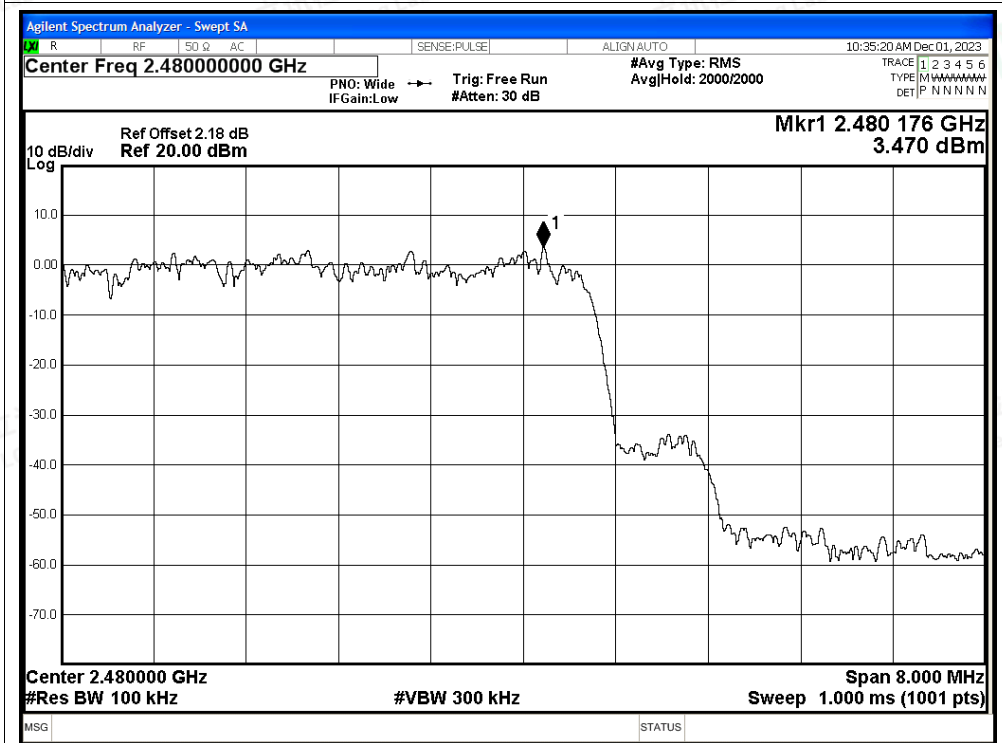


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

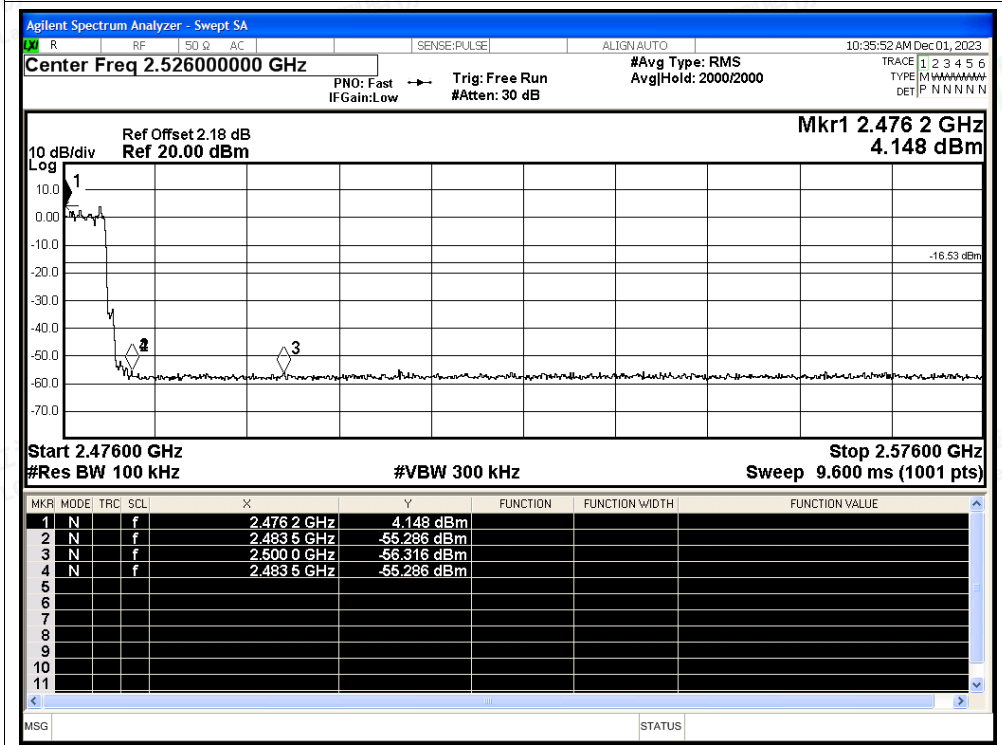




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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	-59.58	-20	Pass
NVNT	1-DH5	2441	Ant	-58.39	-20	Pass
NVNT	1-DH5	2480	Ant	-56.53	-20	Pass
NVNT	2-DH5	2402	Ant	-58.31	-20	Pass
NVNT	2-DH5	2441	Ant	-58.16	-20	Pass
NVNT	2-DH5	2480	Ant	-54.48	-20	Pass
NVNT	3-DH5	2402	Ant	-58.39	-20	Pass
NVNT	3-DH5	2441	Ant	-57.05	-20	Pass
NVNT	3-DH5	2480	Ant	-59.67	-20	Pass

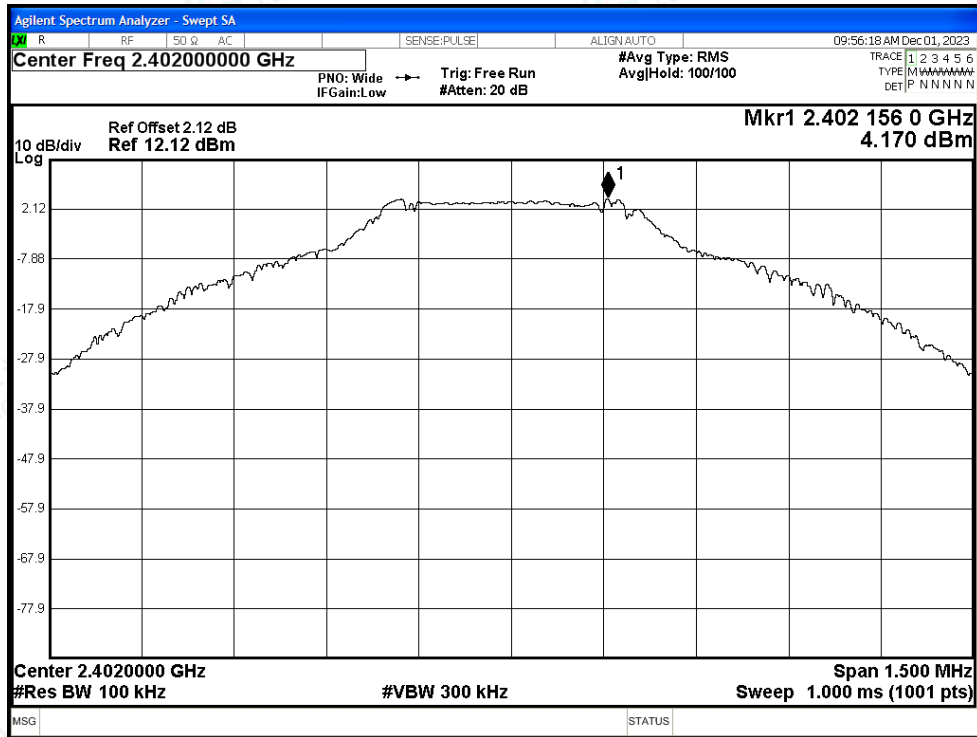


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Scan code to check authenticity

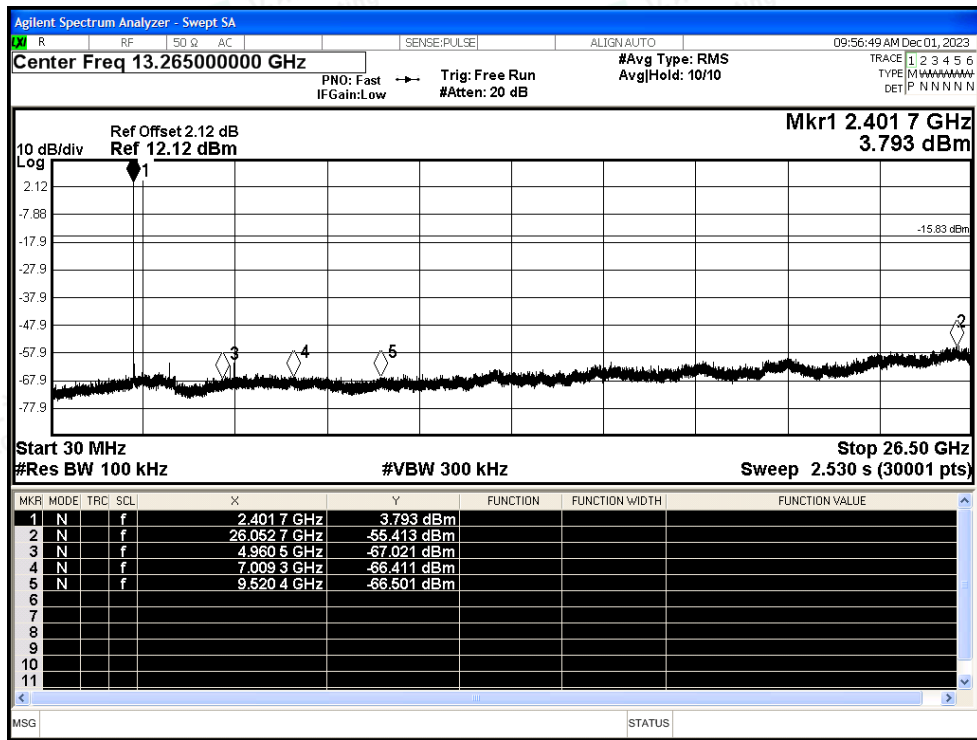


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

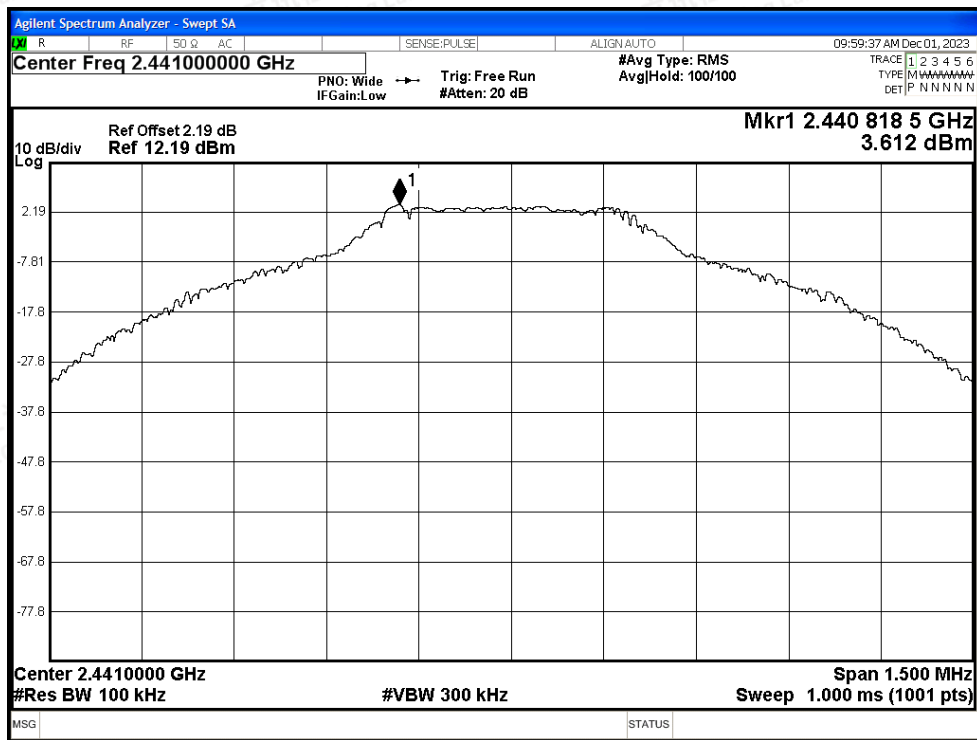


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

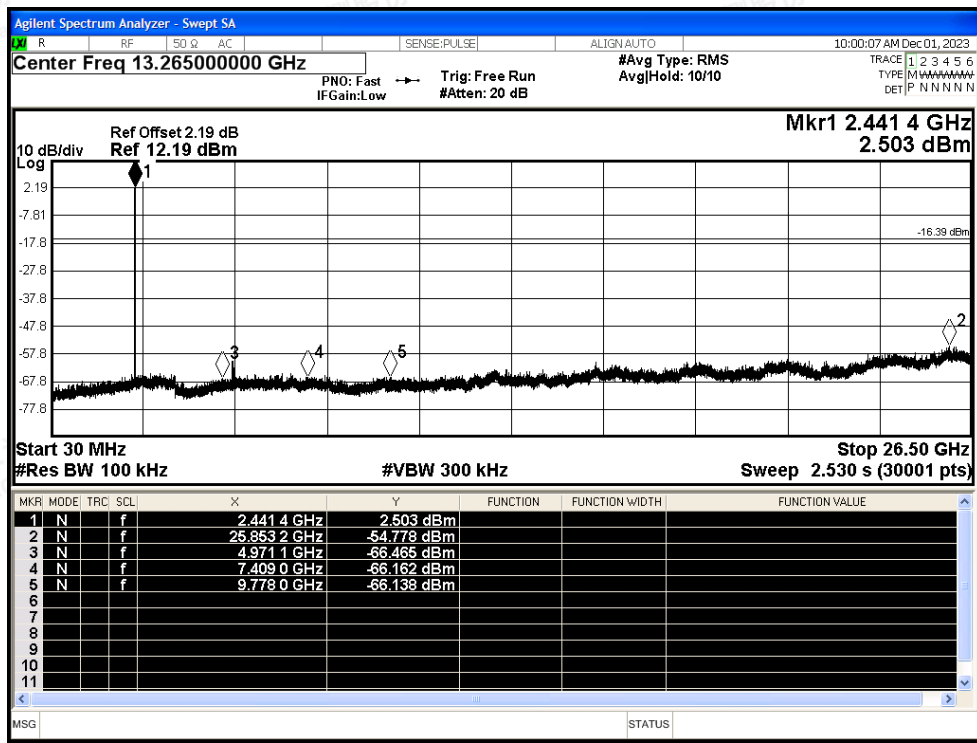




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref

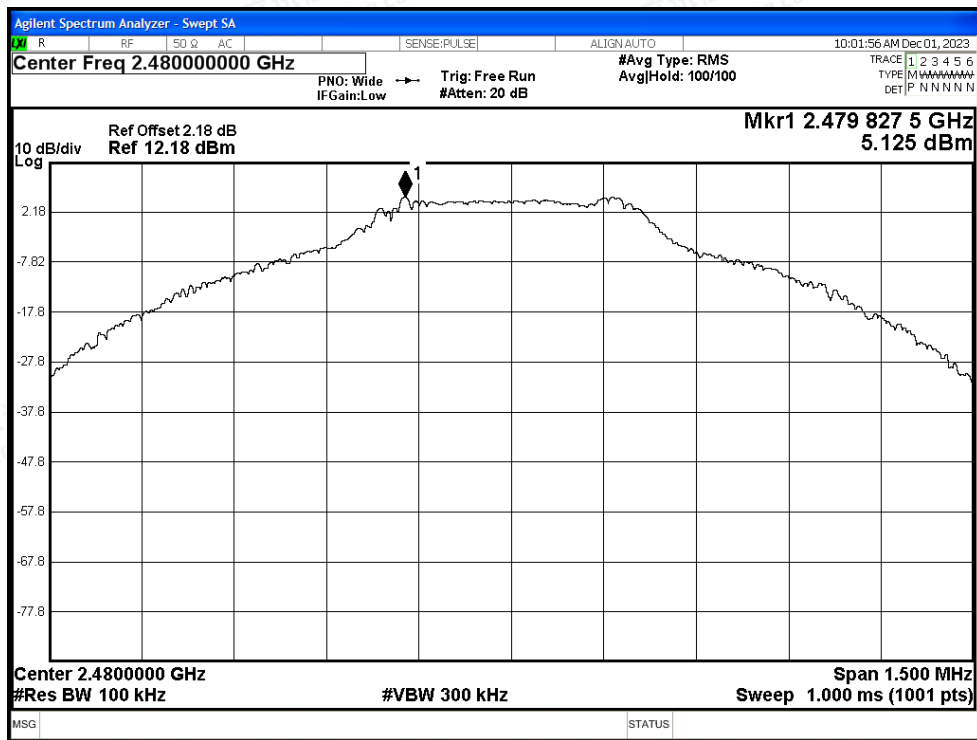


Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

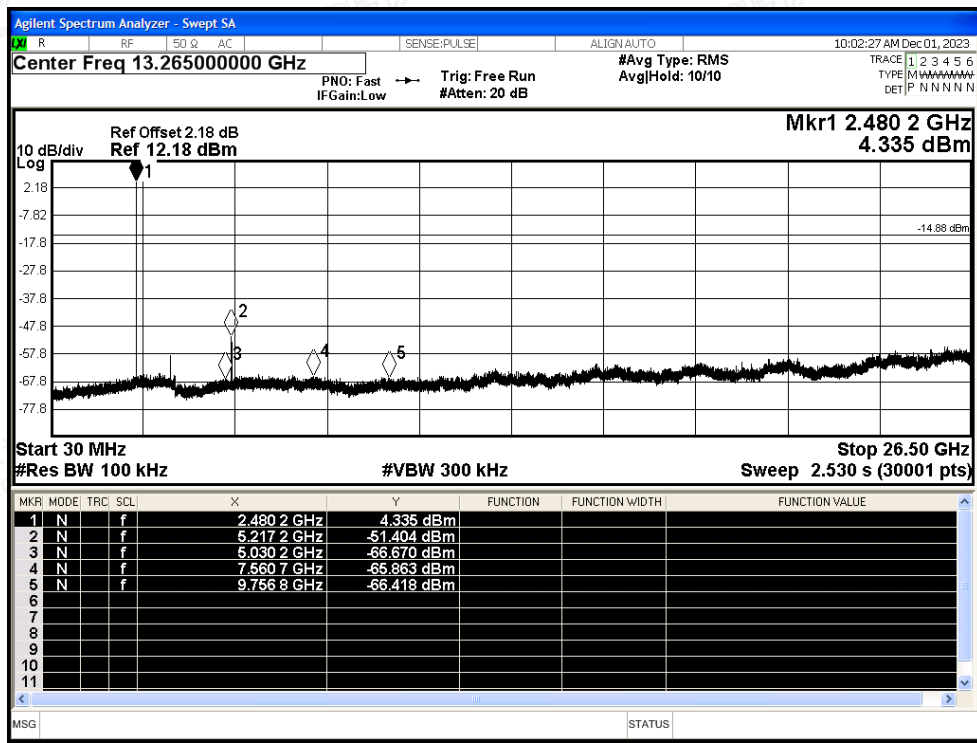




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

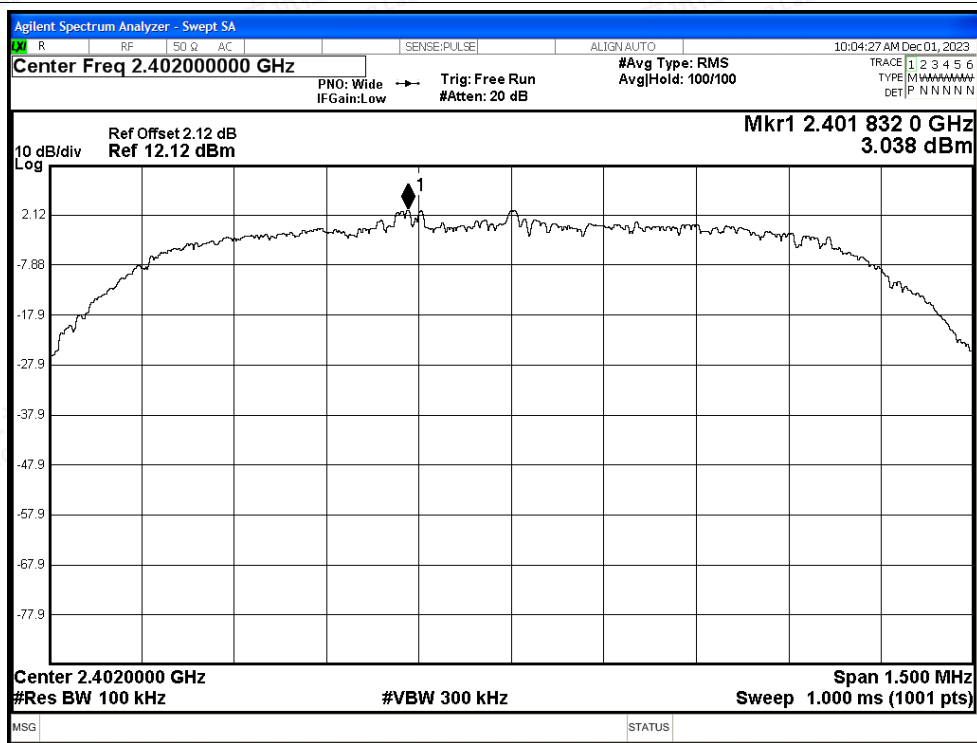


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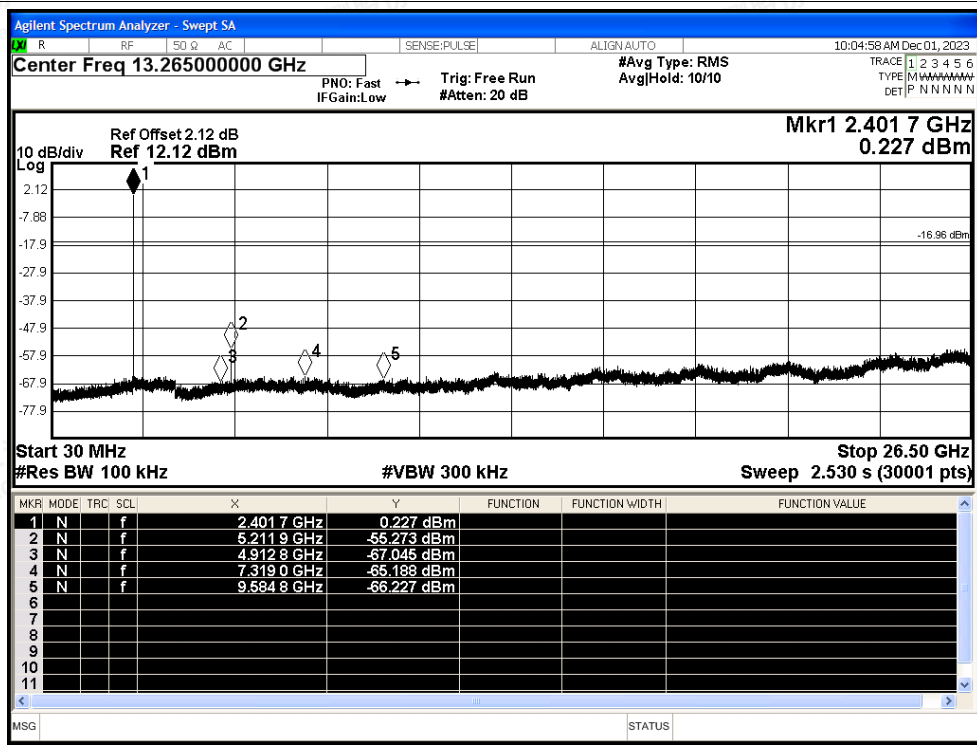




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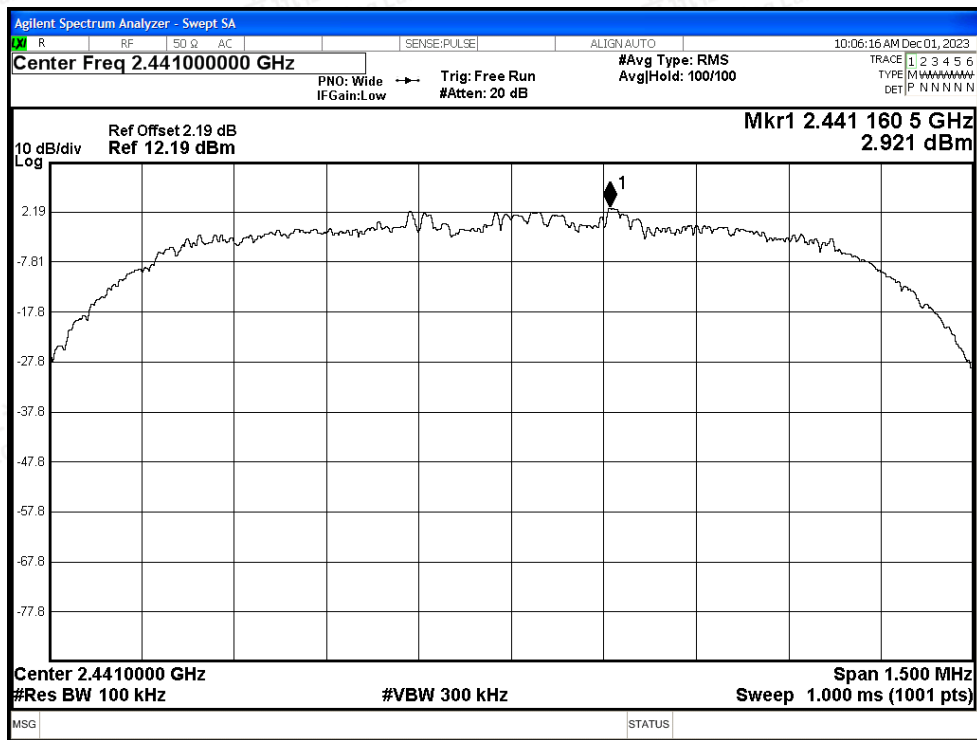


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

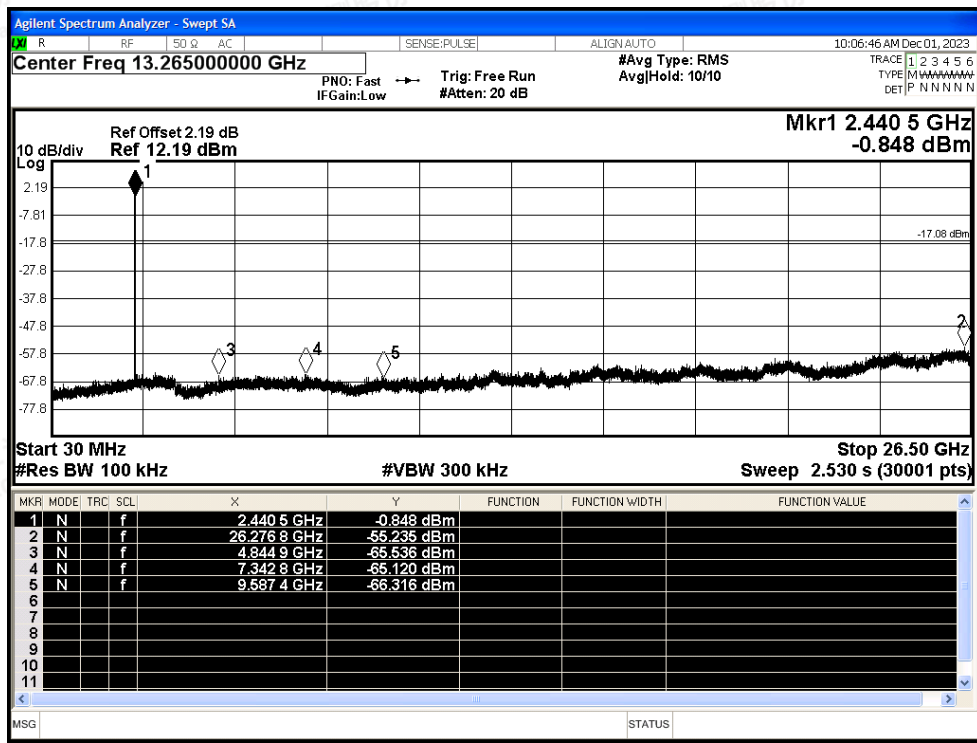




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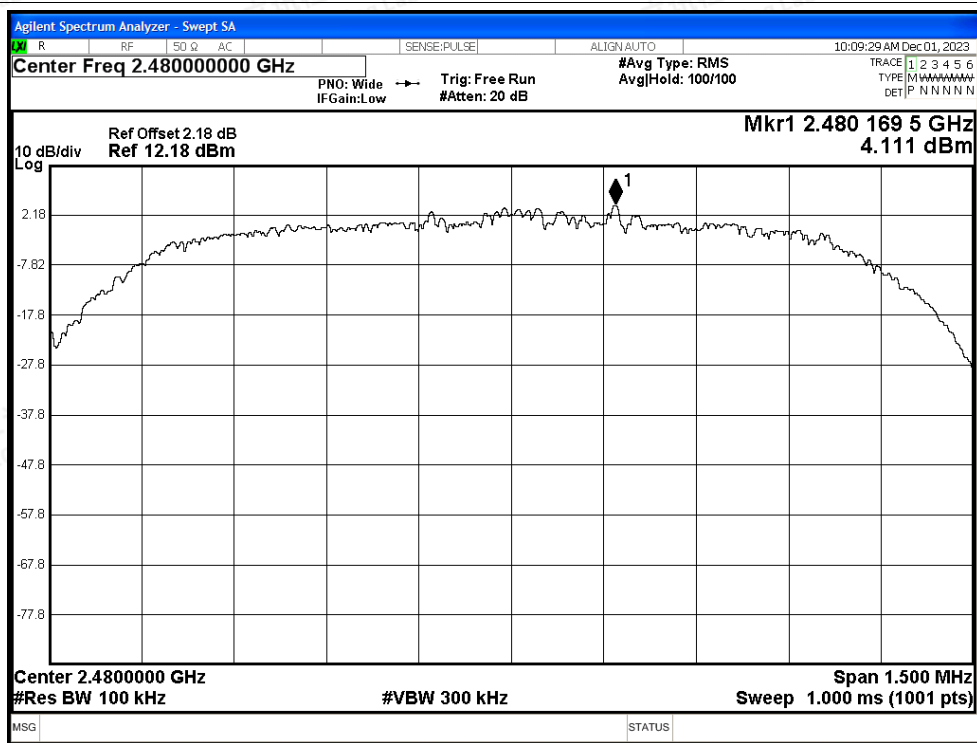


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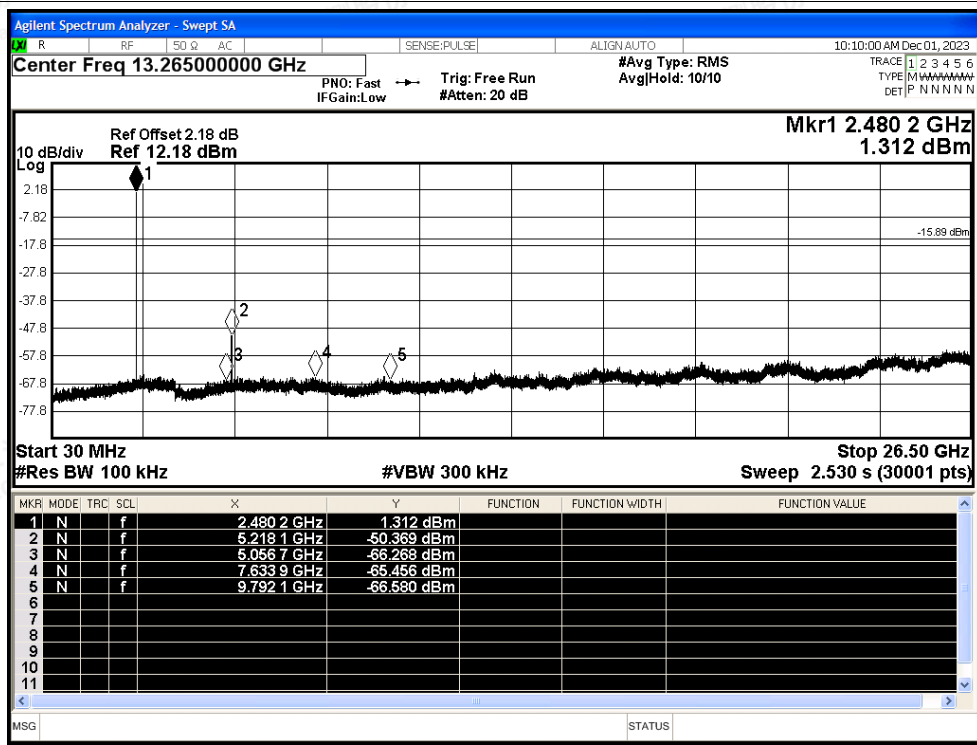




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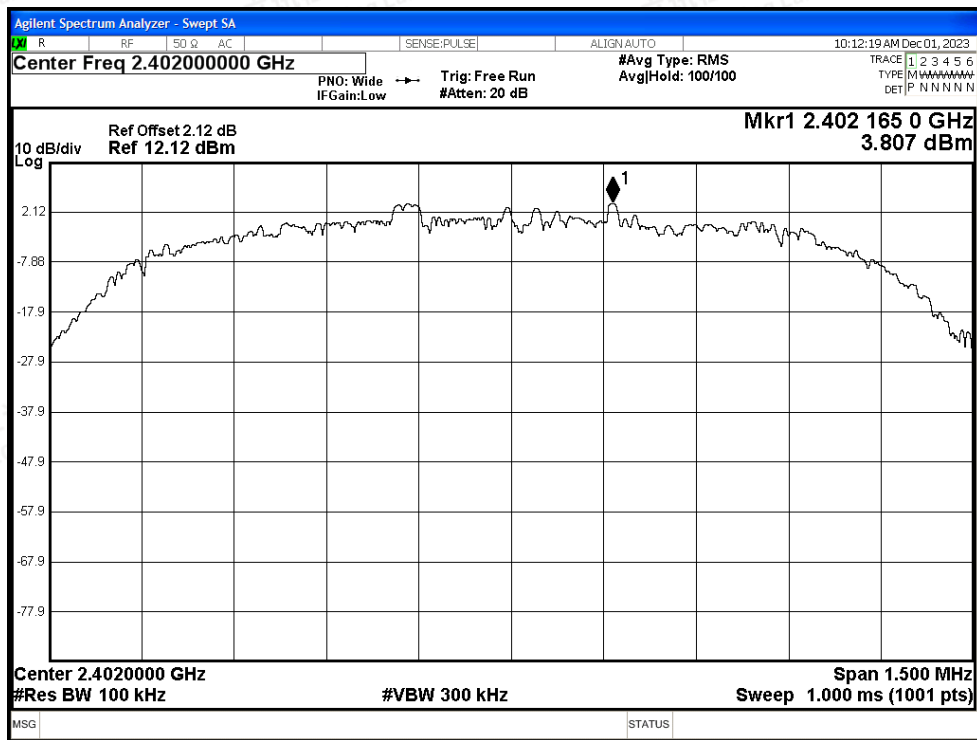


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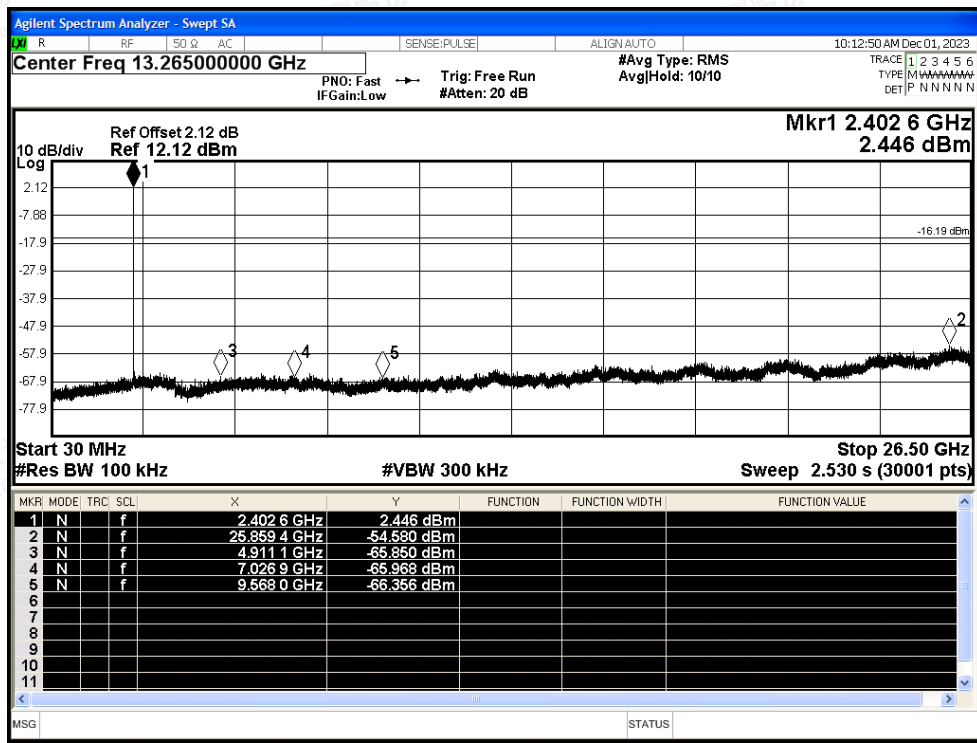




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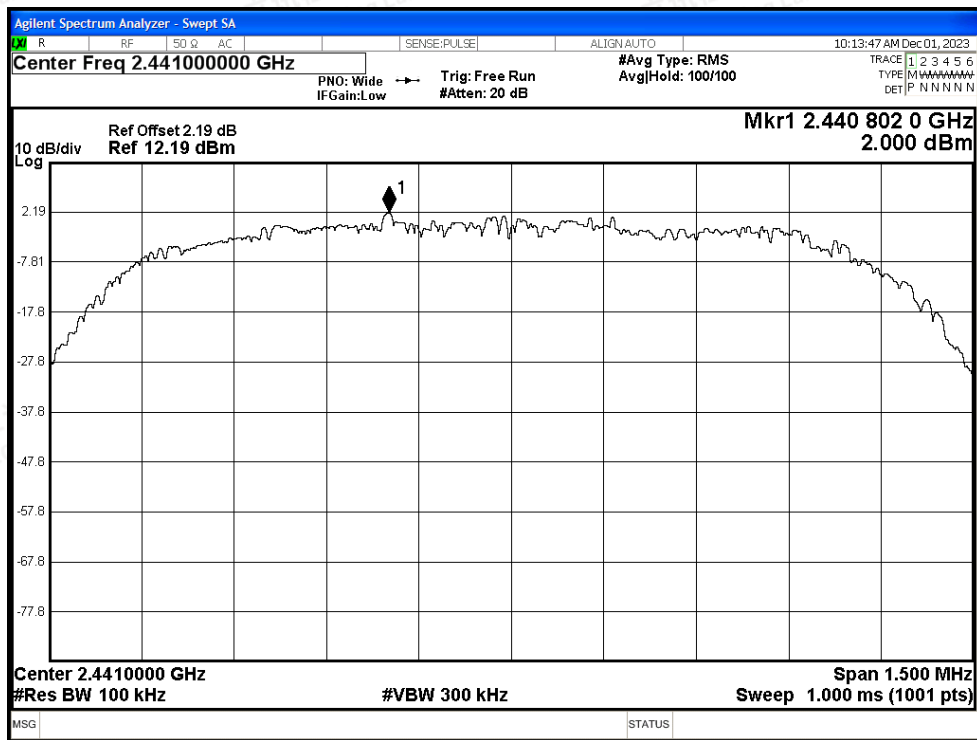


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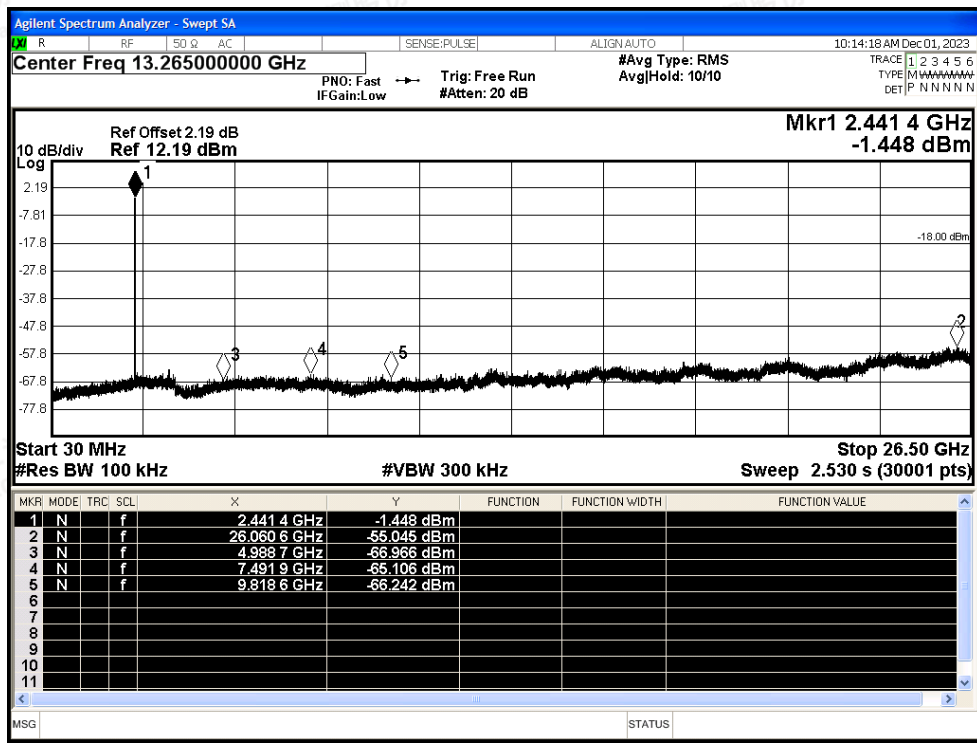




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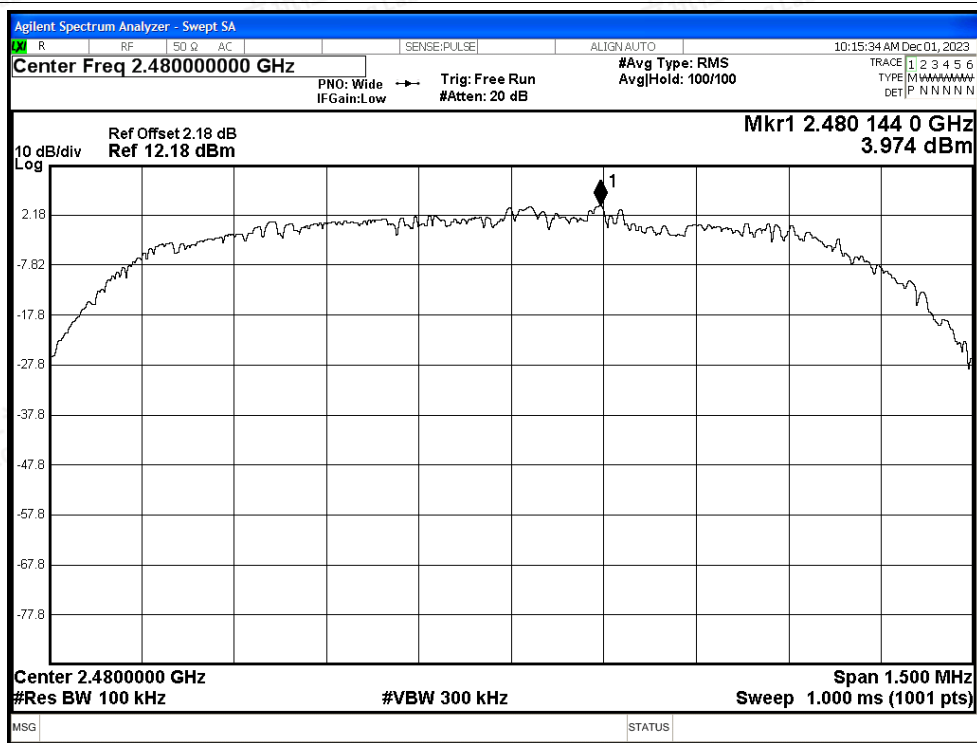


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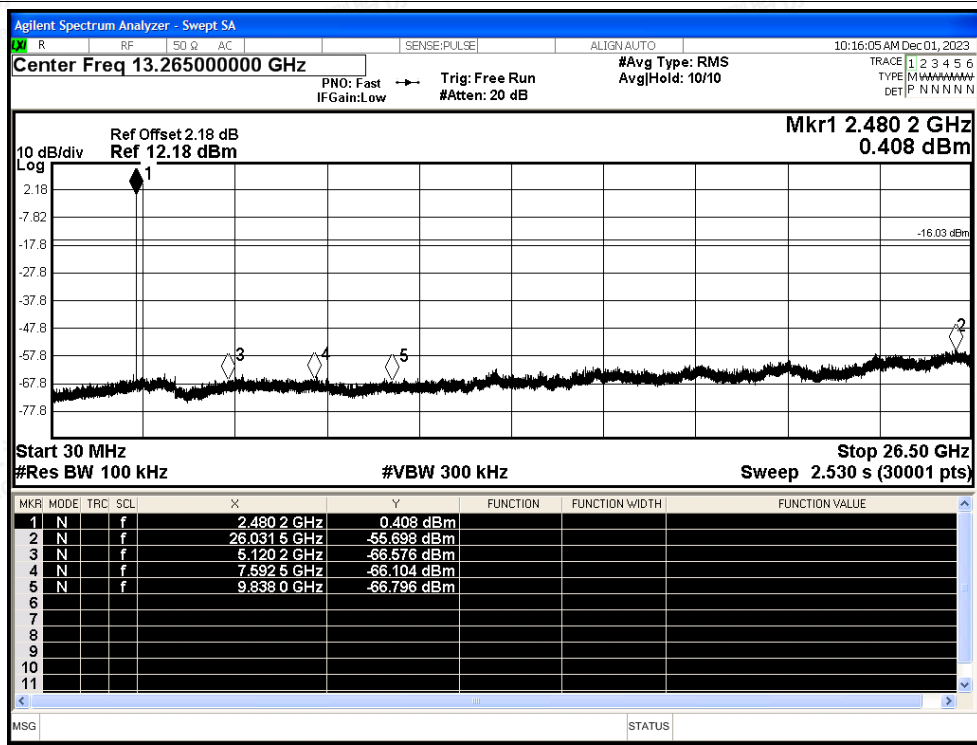




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission





A.8 Restrict Band

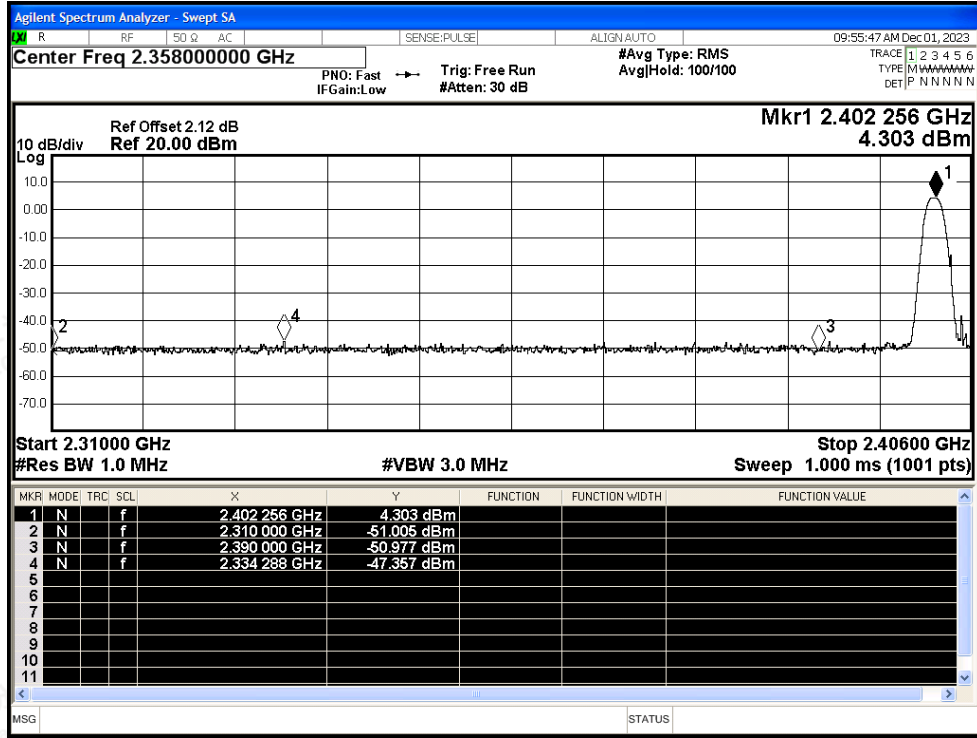
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-51.01	2	46.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-57.82	2	39.44	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2334.288	-47.36	2	49.9	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2388.912	-57.28	2	39.98	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-50.98	2	46.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.42	2	39.84	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-47.61	2	49.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-53.43	2	43.83	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2485.984	-46.78	2	50.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-53.43	2	43.83	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-48.53	2	48.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.13	2	40.13	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-50.21	2	47.05	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-57.83	2	39.43	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2374.608	-47.13	2	50.13	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2389.104	-57.21	2	40.05	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-49.63	2	47.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.3	2	39.96	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-45.11	2	52.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-51.13	2	46.13	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.56	-44.83	2	52.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-51.13	2	46.13	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-49.18	2	48.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.19	2	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.53	2	46.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-57.78	2	39.48	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2370.48	-47.08	2	50.18	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2386.992	-57.28	2	39.98	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-50.78	2	46.48	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.31	2	39.95	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-43.55	2	53.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-51.03	2	46.23	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-43.55	2	53.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-51.03	2	46.23	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.44	2	46.82	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.15	2	40.11	Average	54	Pass



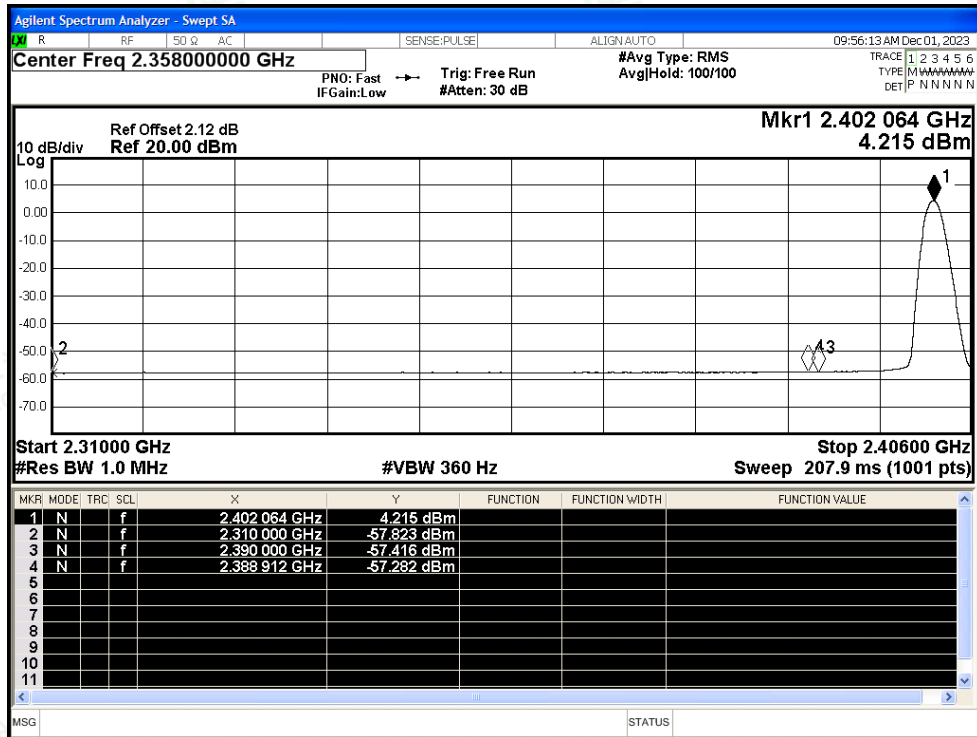


Test Graphs

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

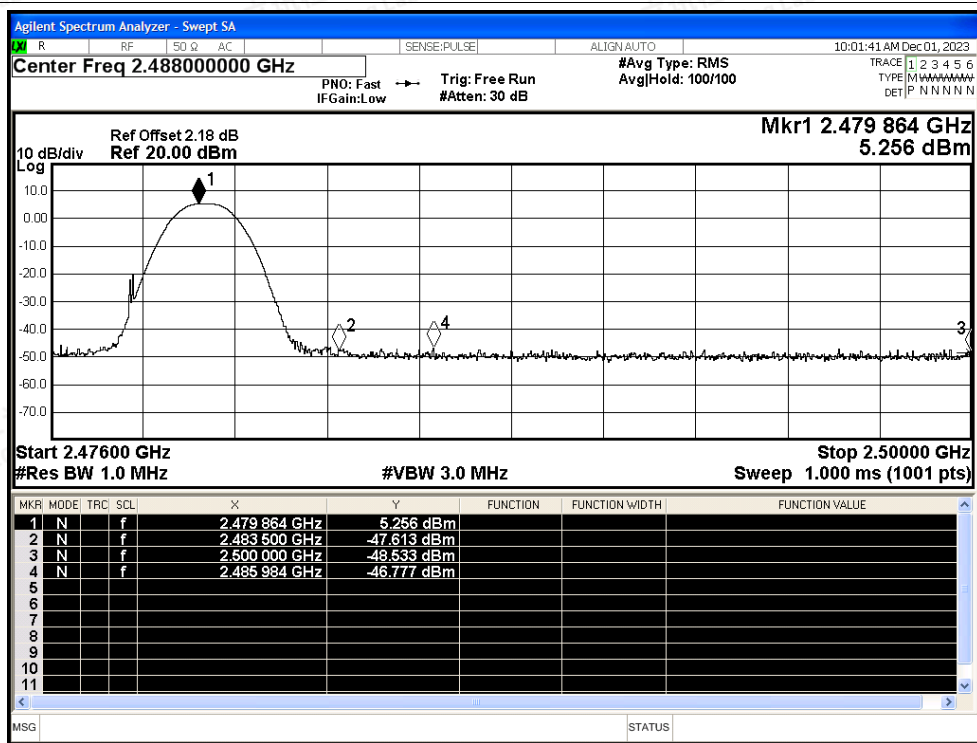


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

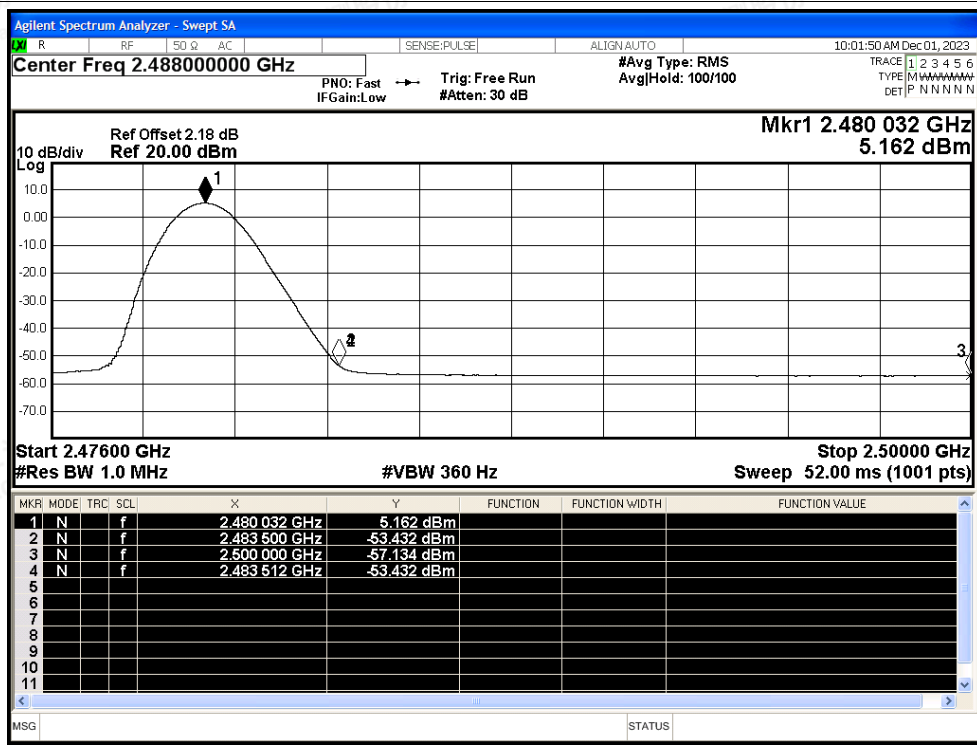




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

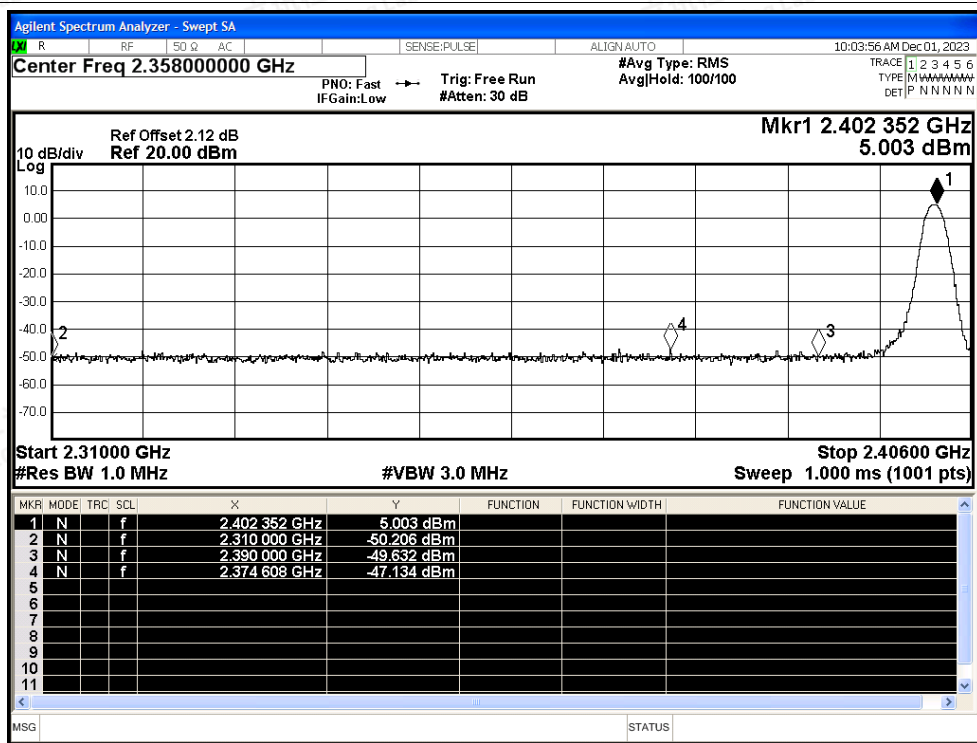


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

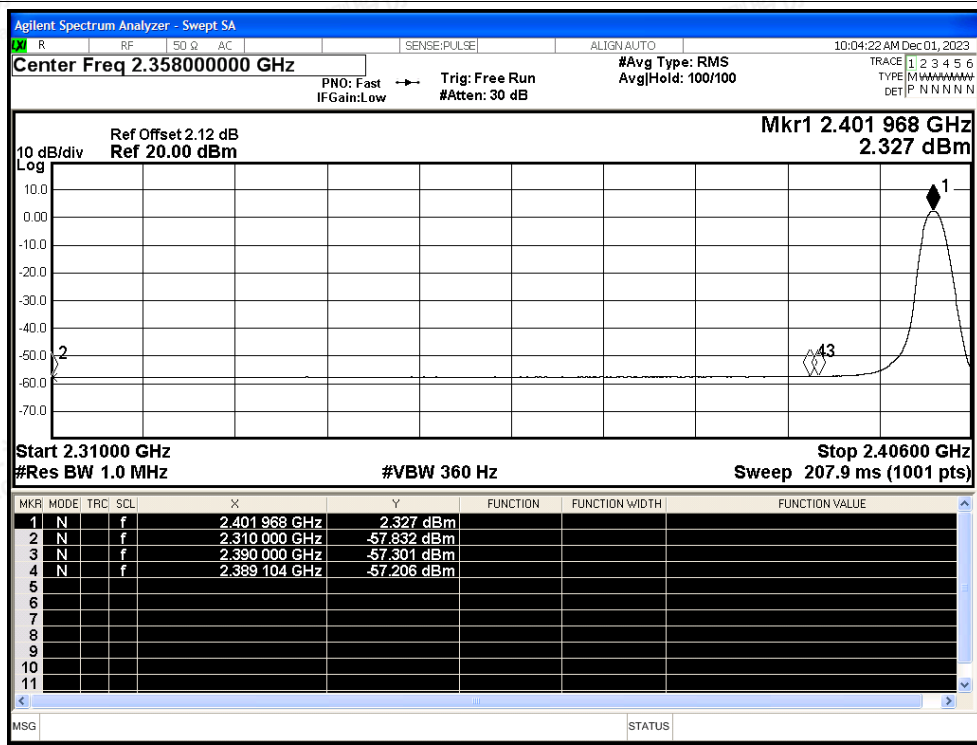




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

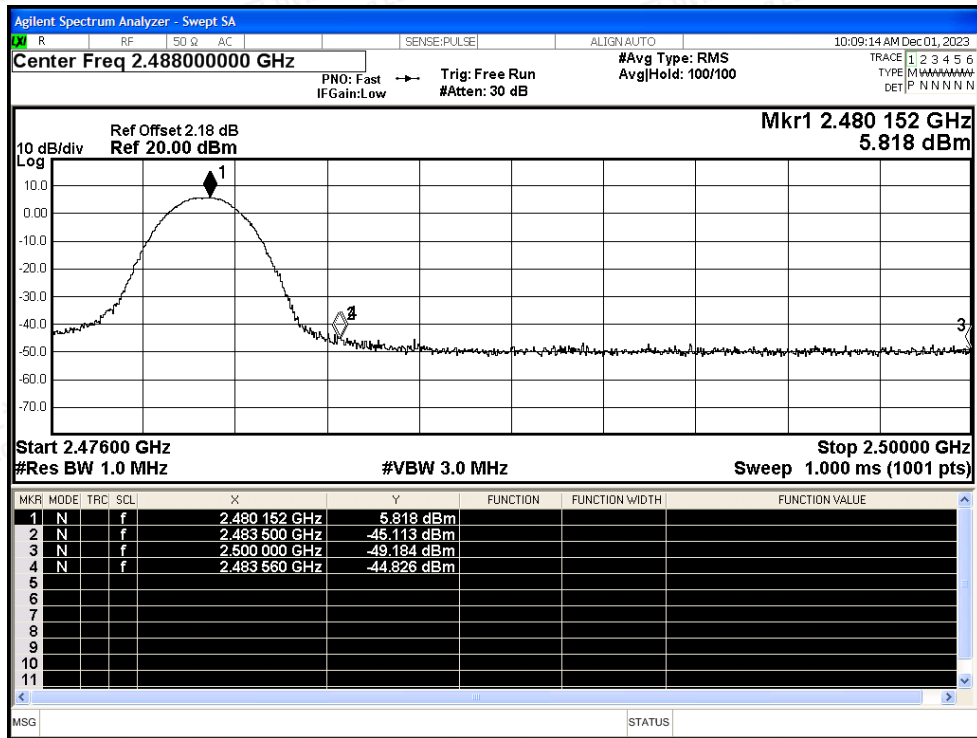


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

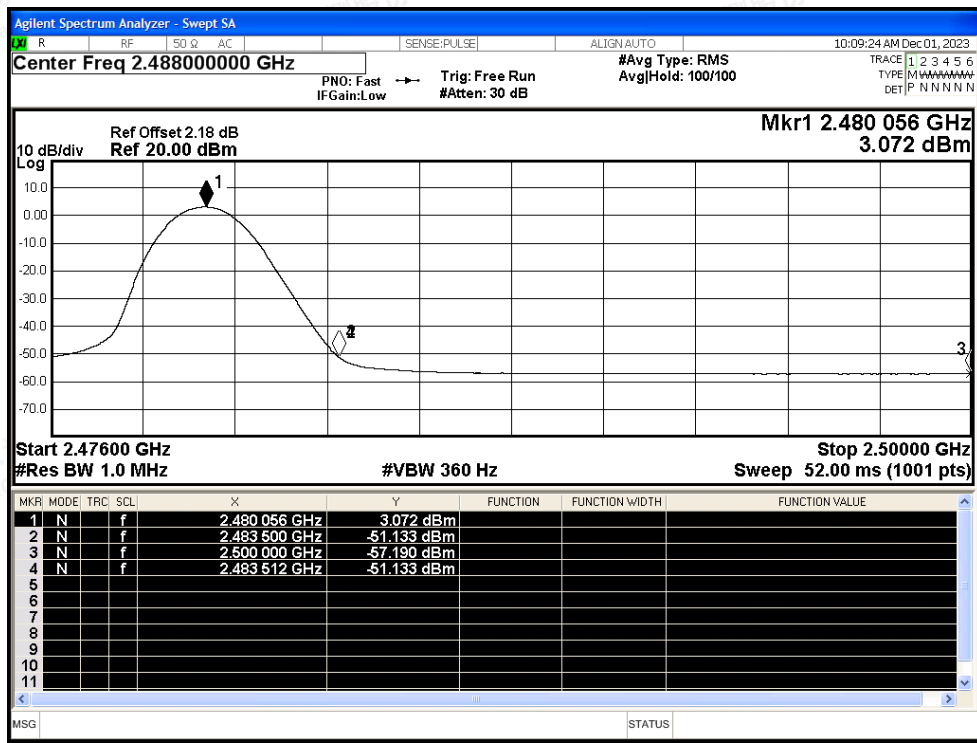




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

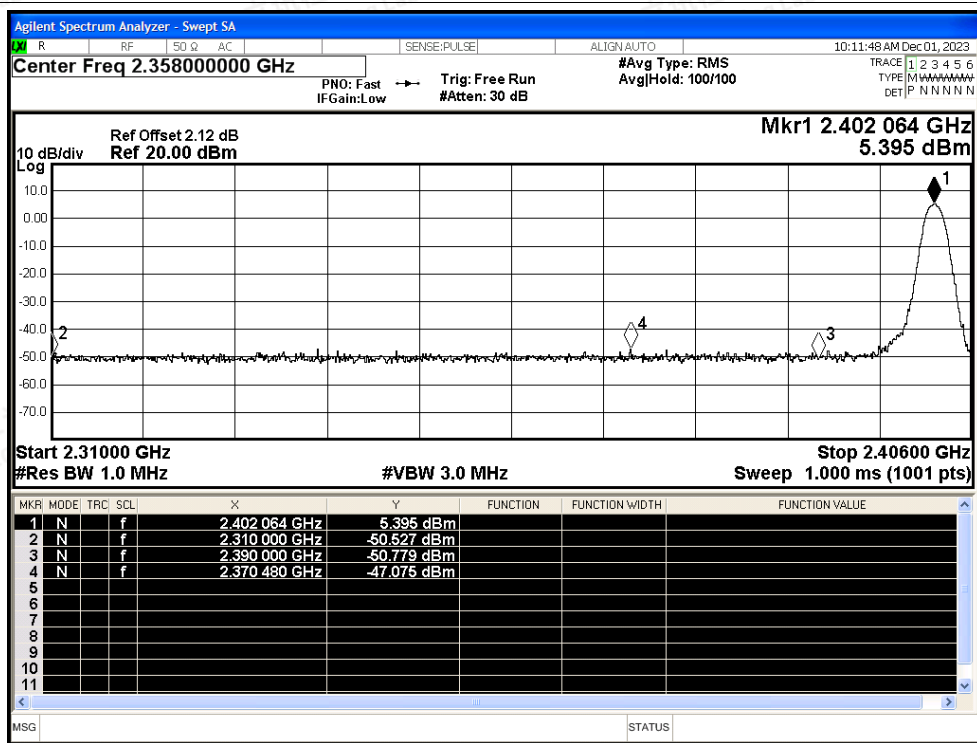


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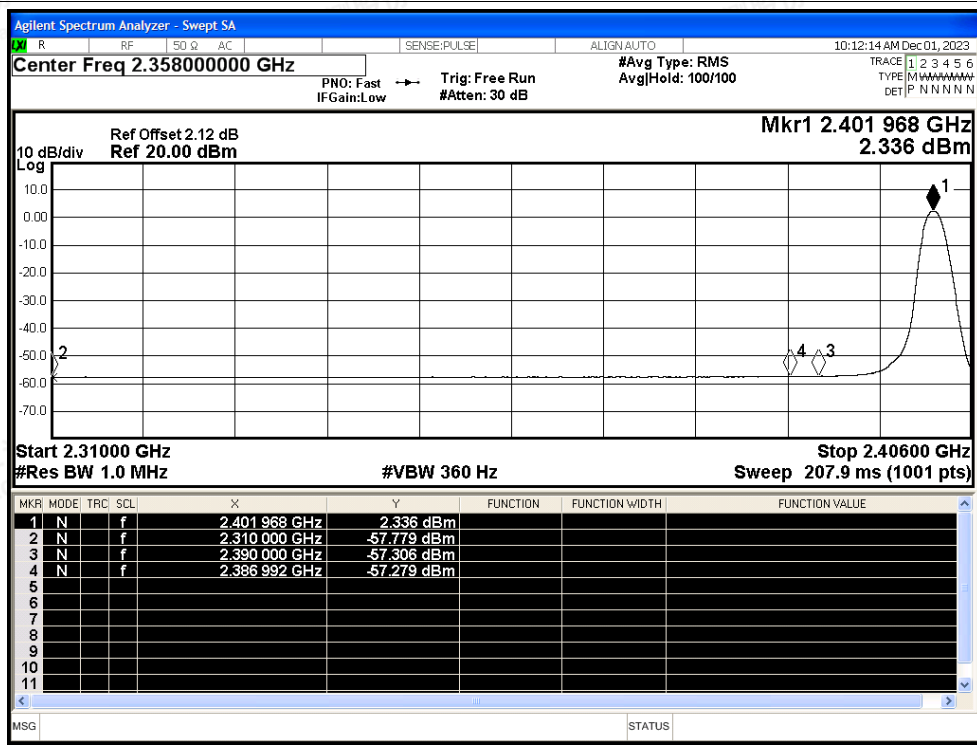




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

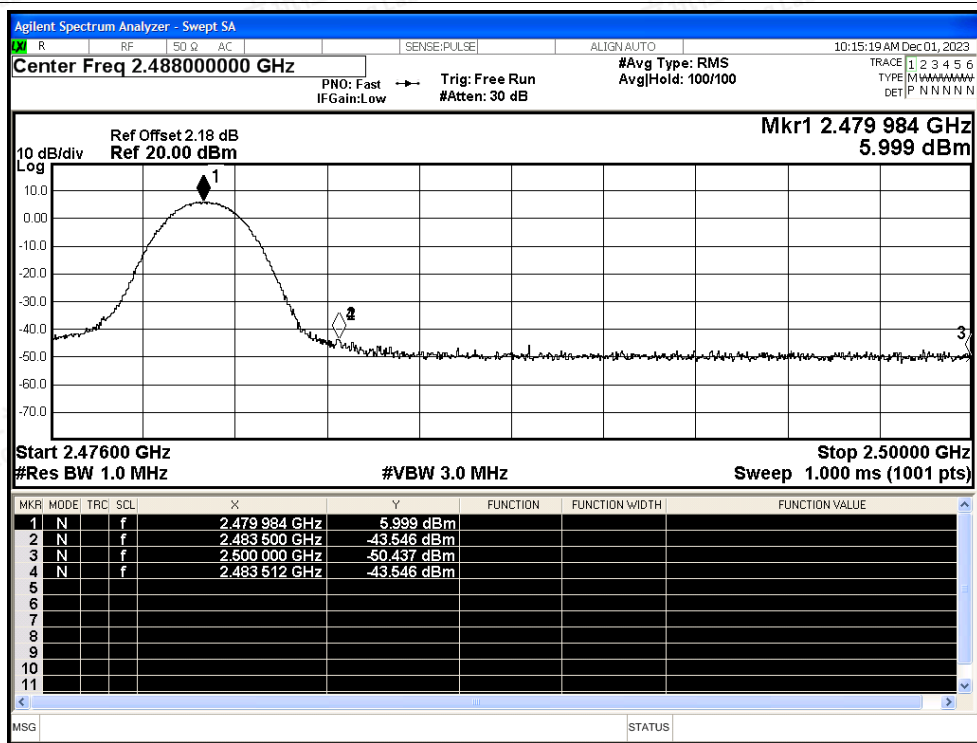


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

