



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TWS Bluetooth Headset

Test Model: Airdopes 131 Pro

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

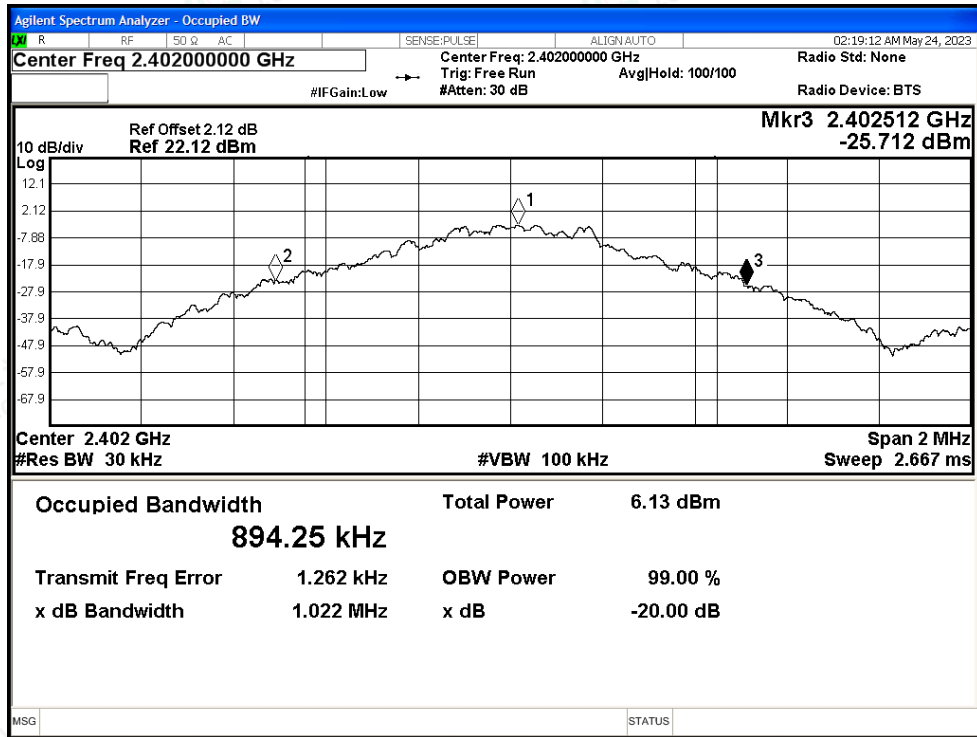
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.022	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.999	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.031	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.318	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.318	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.308	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.306	N/A	Pass



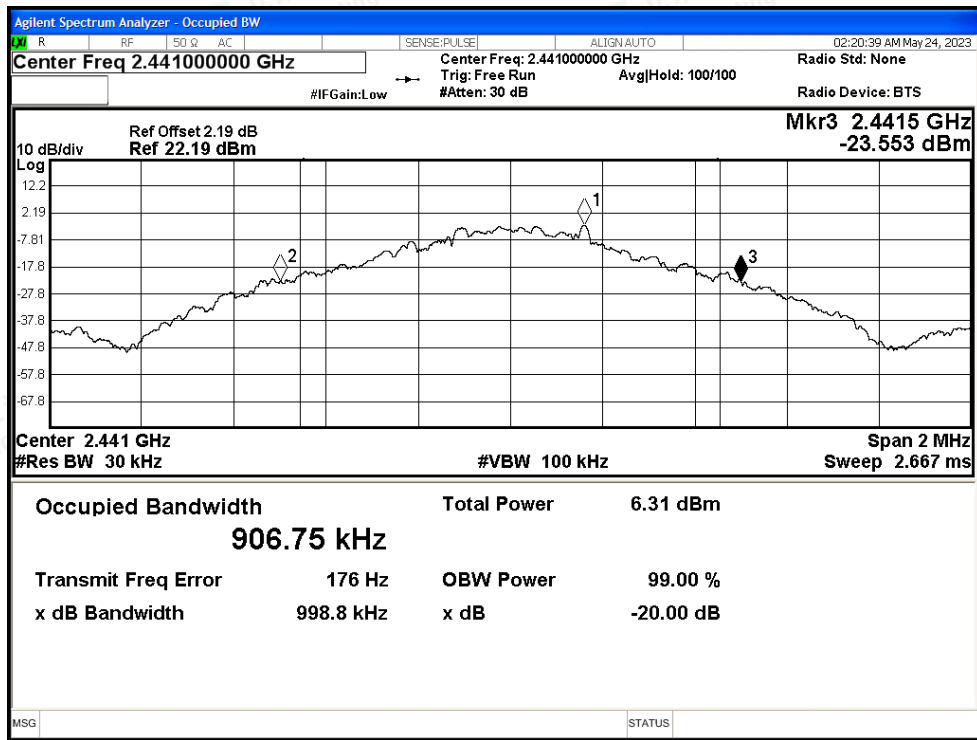


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

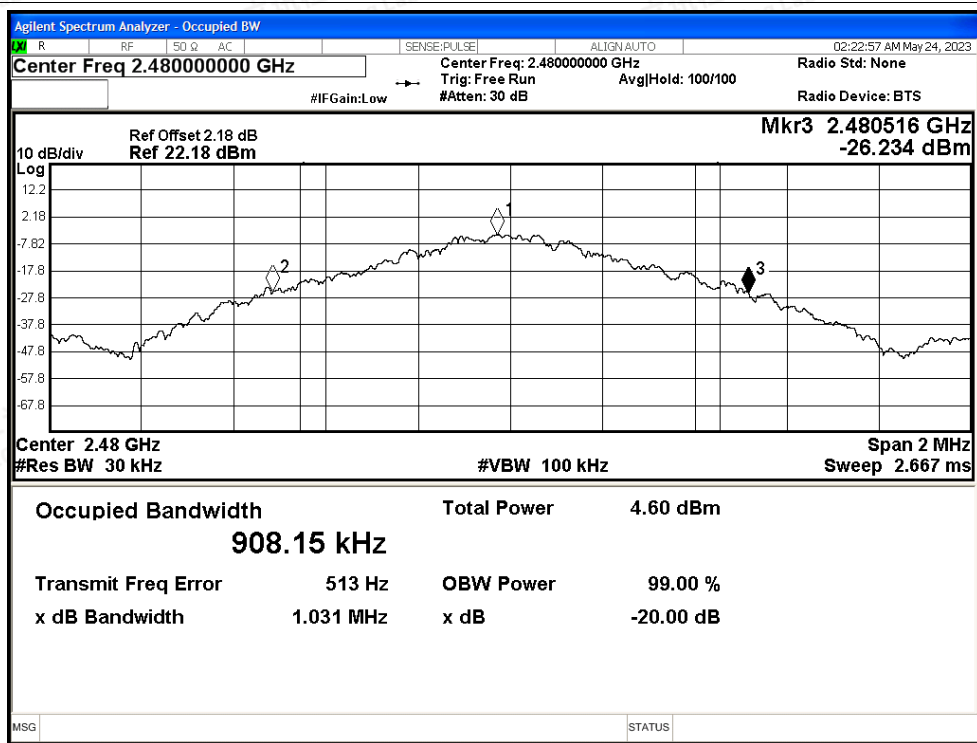


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

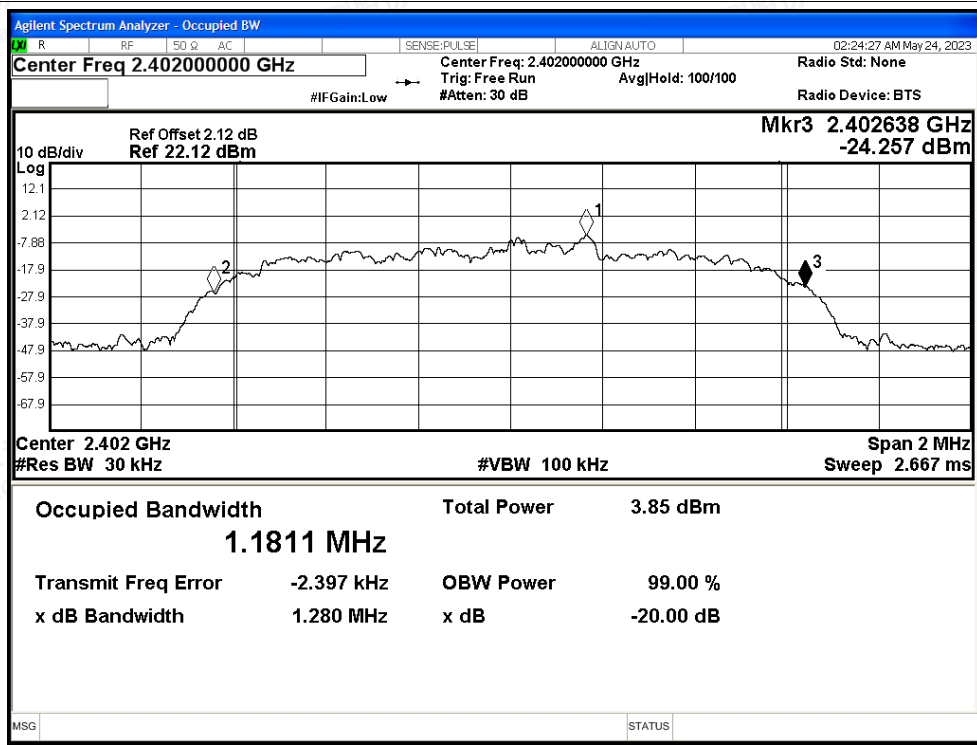




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

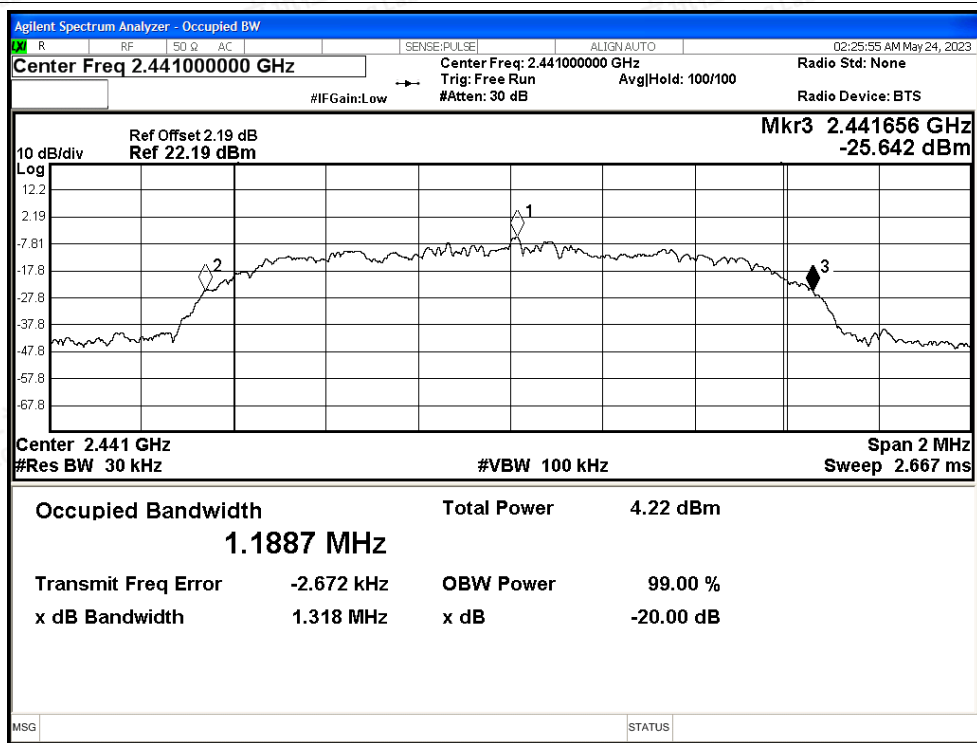


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

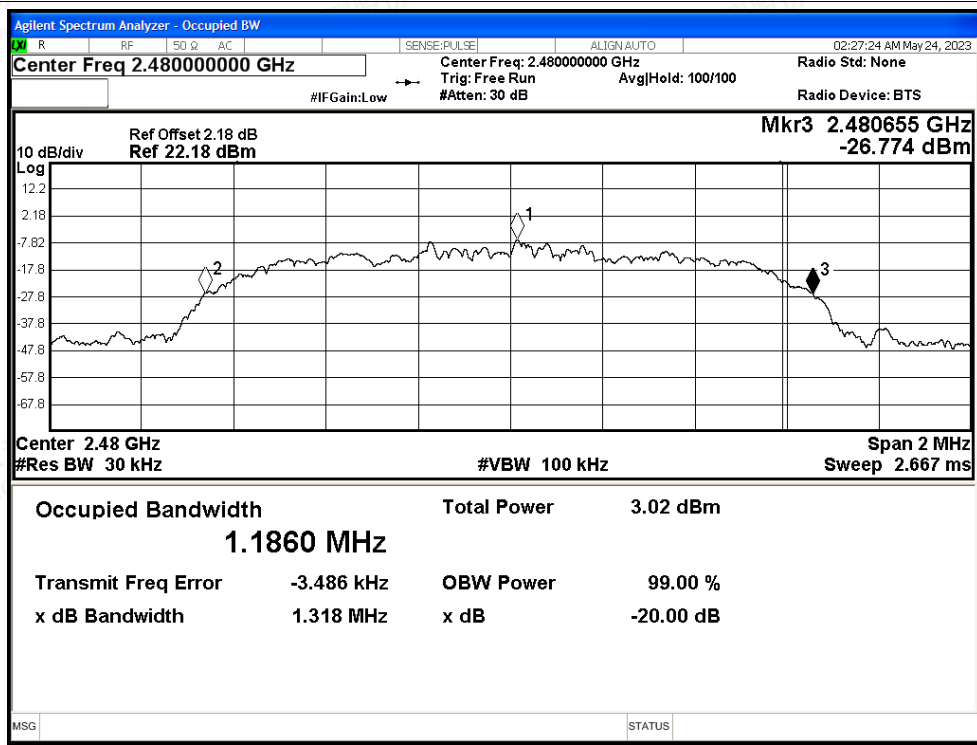




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

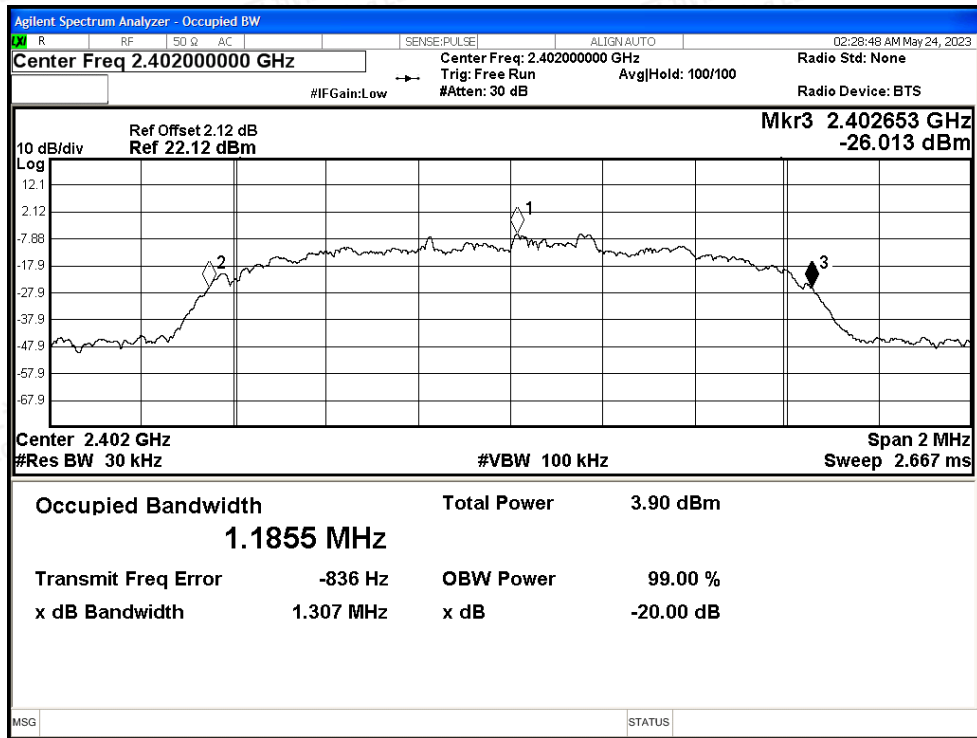


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

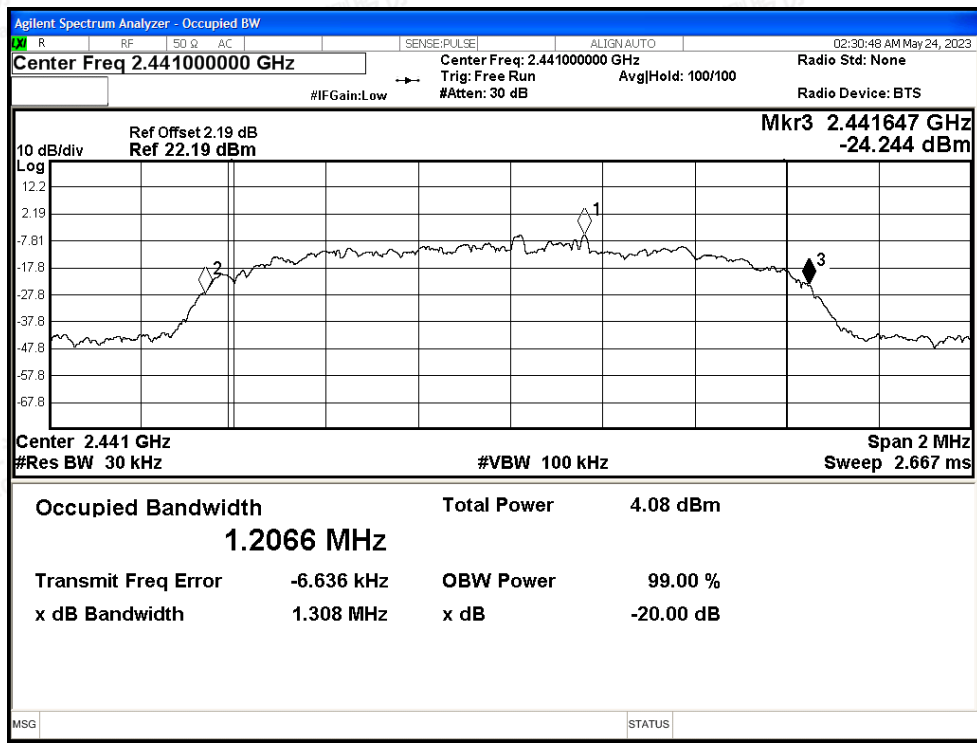




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

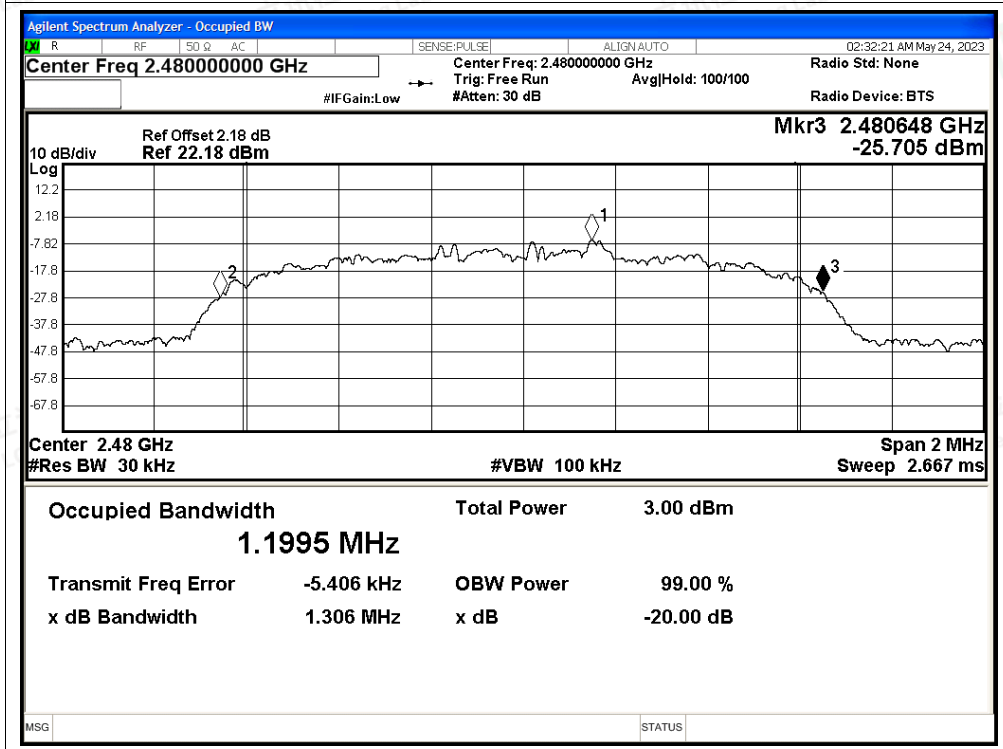


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

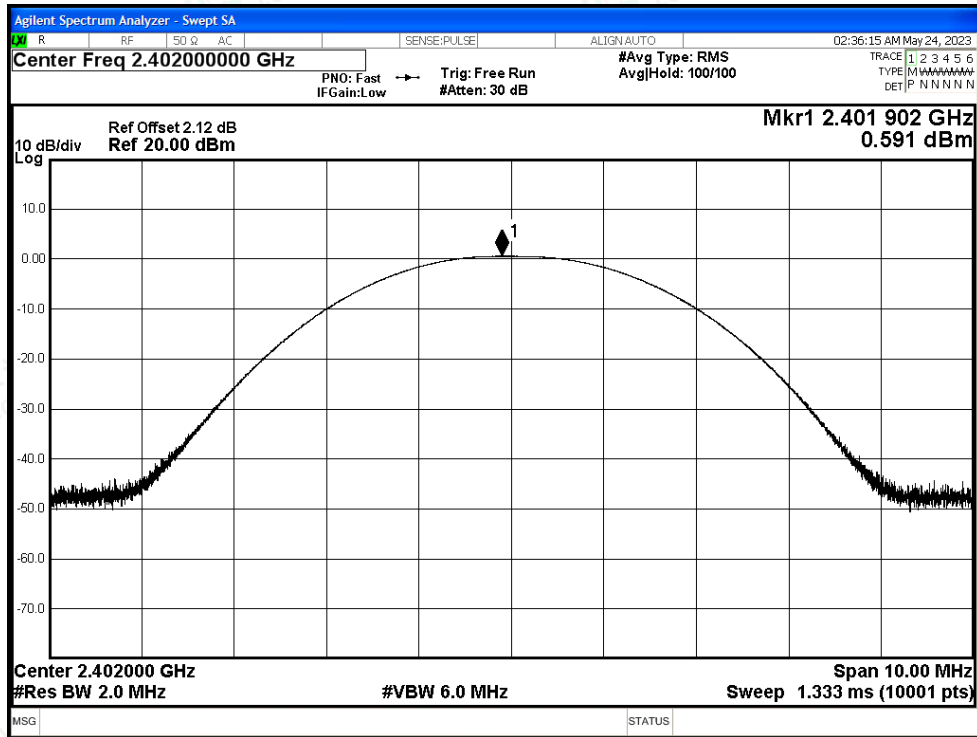
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.59	21	Pass
NVNT	1-DH5	2441	Ant1	1.01	21	Pass
NVNT	1-DH5	2480	Ant1	1.52	21	Pass
NVNT	2-DH5	2402	Ant1	-1.11	21	Pass
NVNT	2-DH5	2441	Ant1	-0.65	21	Pass
NVNT	2-DH5	2480	Ant1	0.91	21	Pass
NVNT	3-DH5	2402	Ant1	-1.04	21	Pass
NVNT	3-DH5	2441	Ant1	-0.56	21	Pass
NVNT	3-DH5	2480	Ant1	0.88	21	Pass



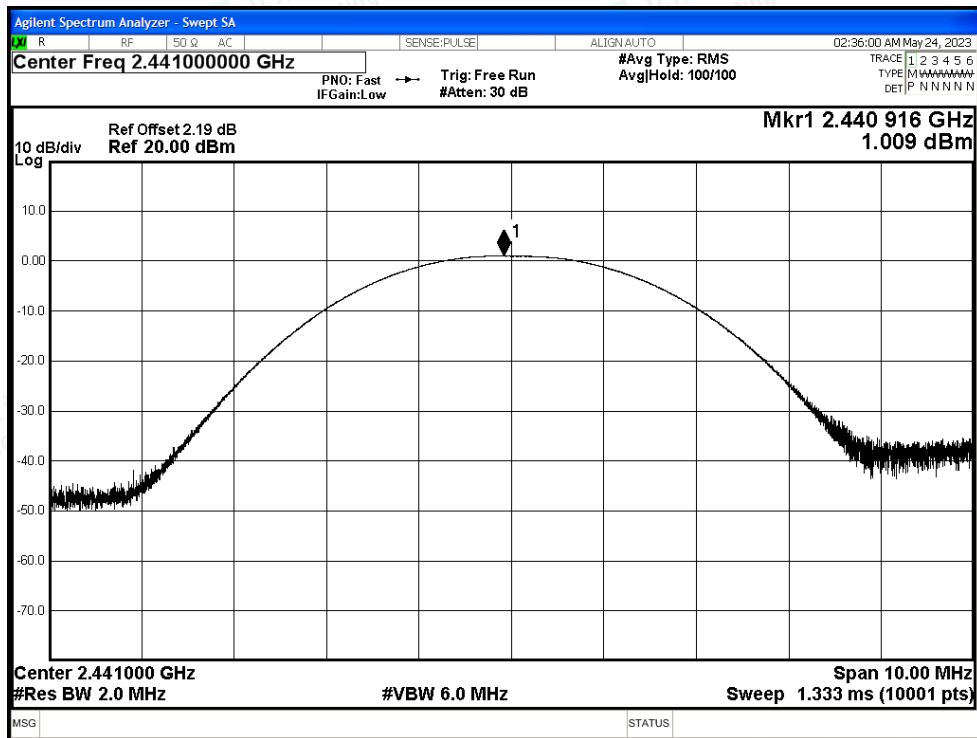


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

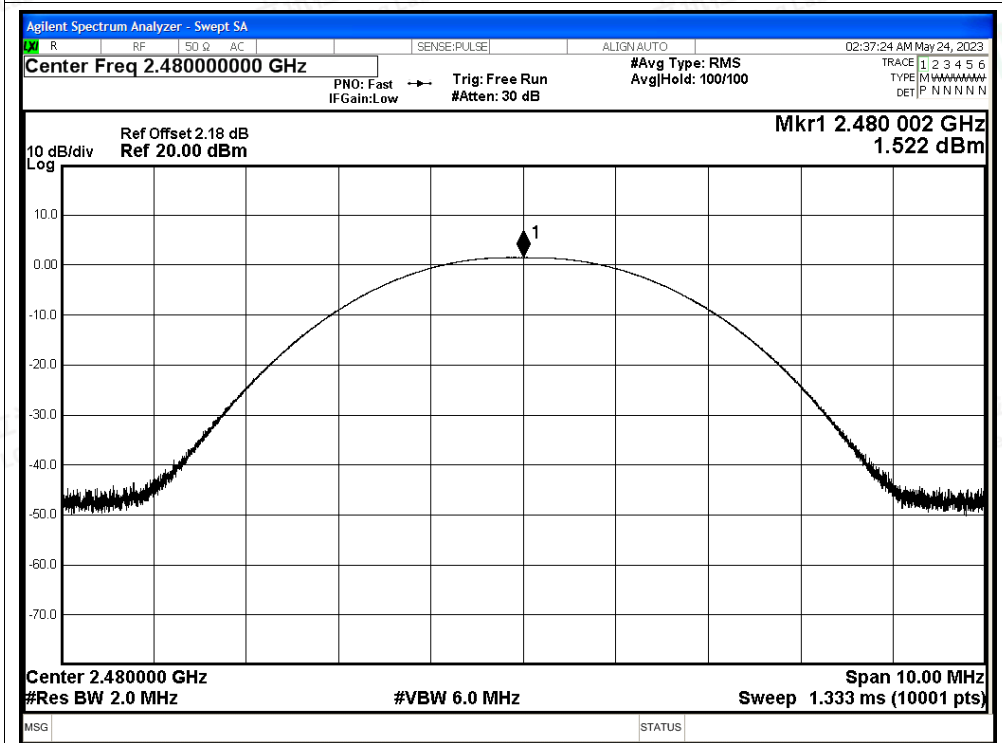


Power NVNT 1-DH5 2441MHz Ant1

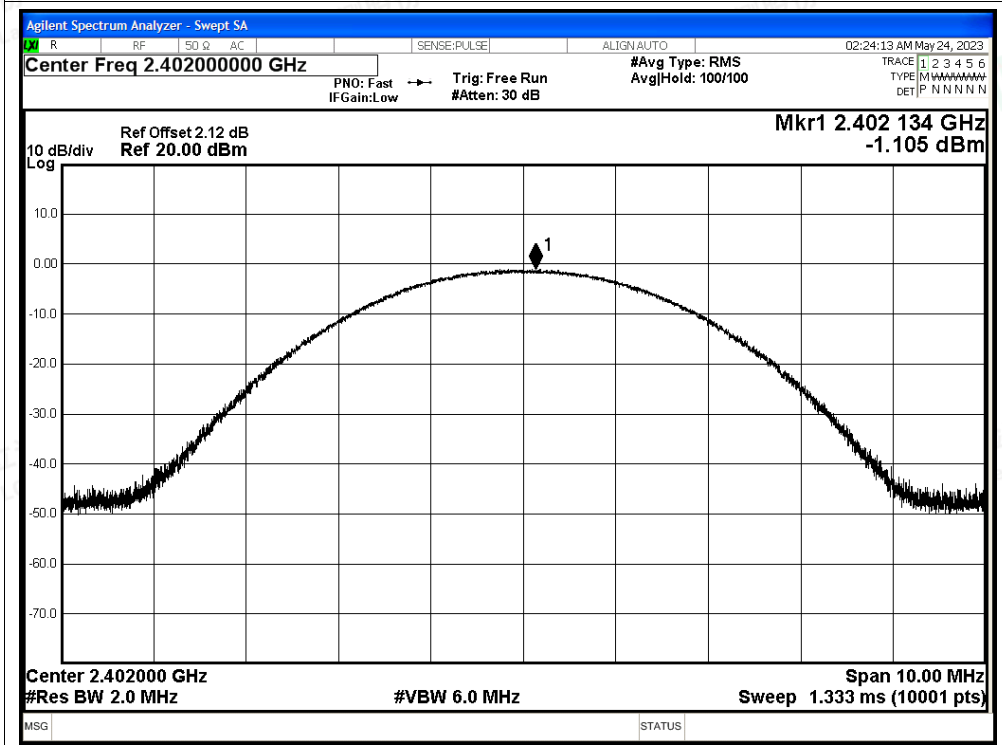




Power NVNT 1-DH5 2480MHz Ant1

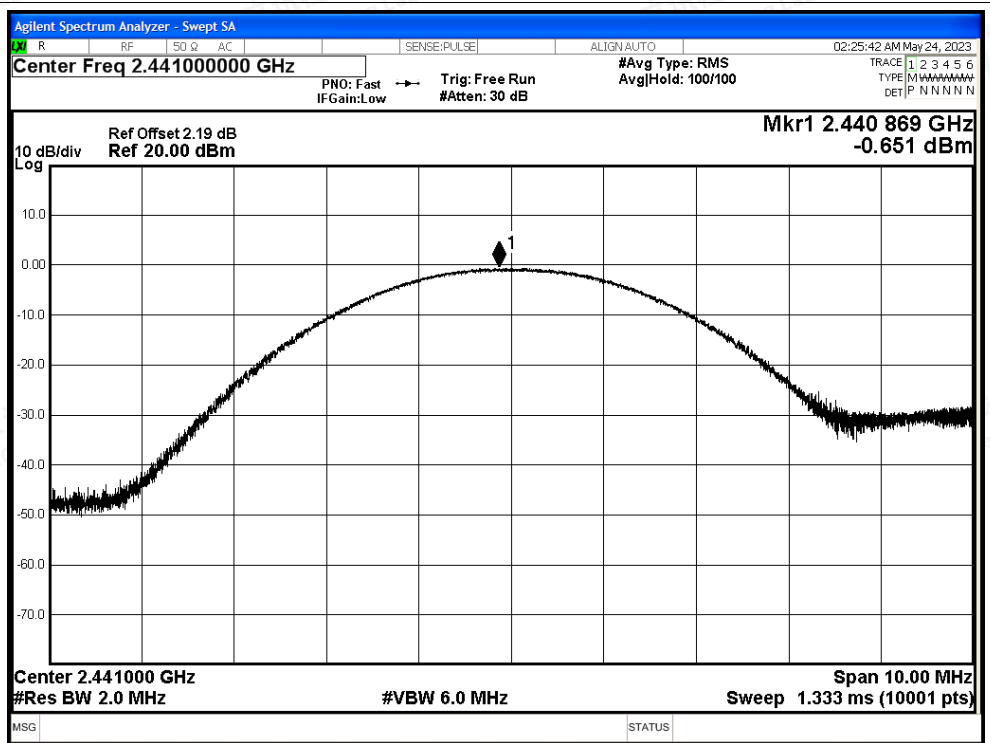


Power NVNT 2-DH5 2402MHz Ant1

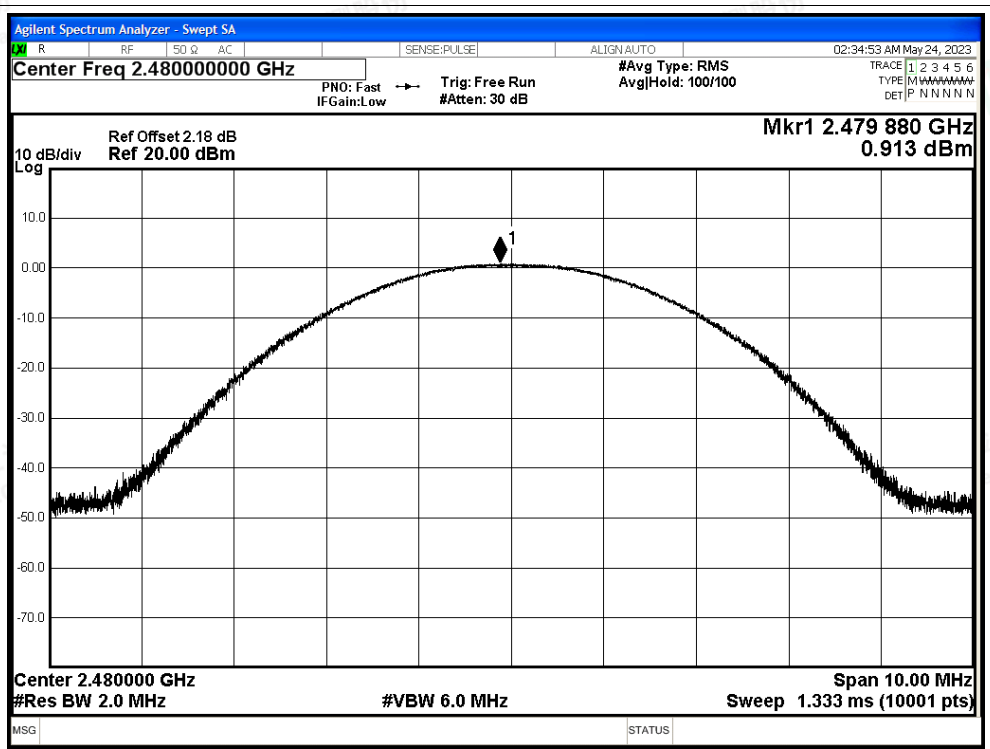


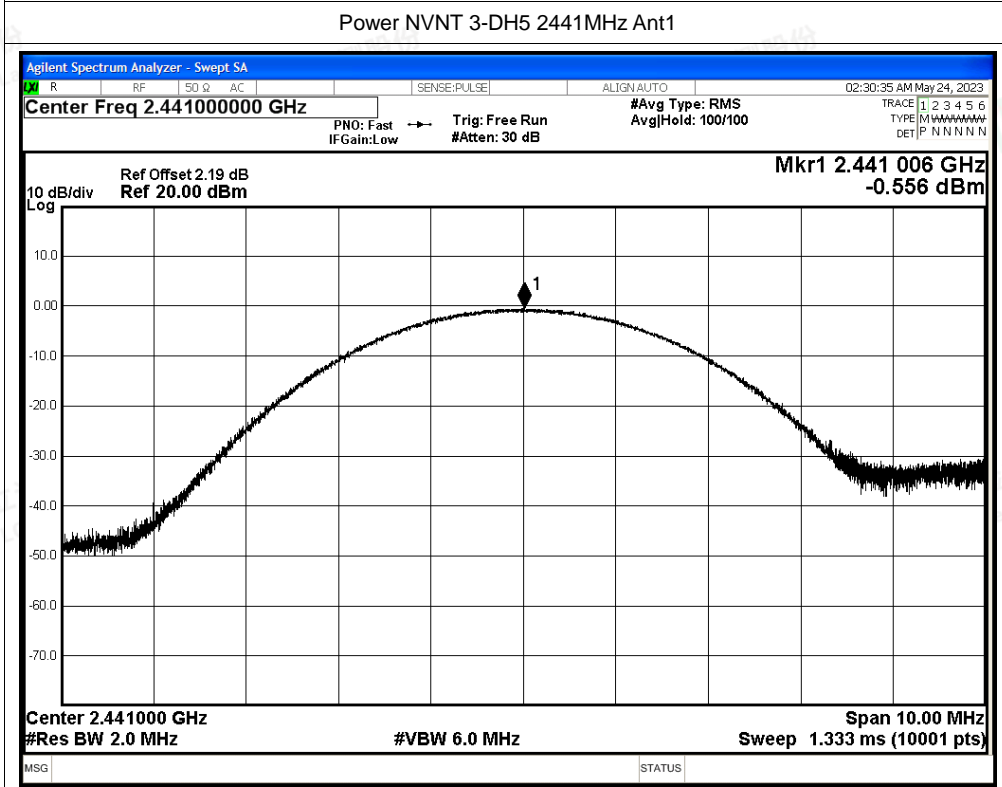
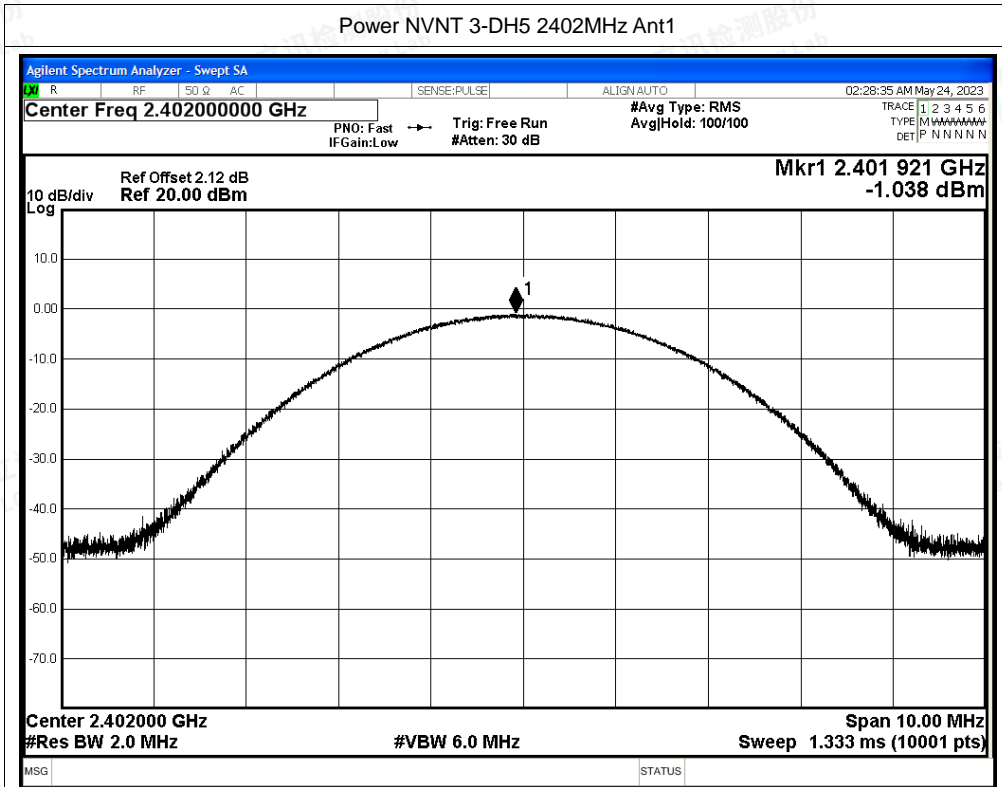


Power NVNT 2-DH5 2441MHz Ant1



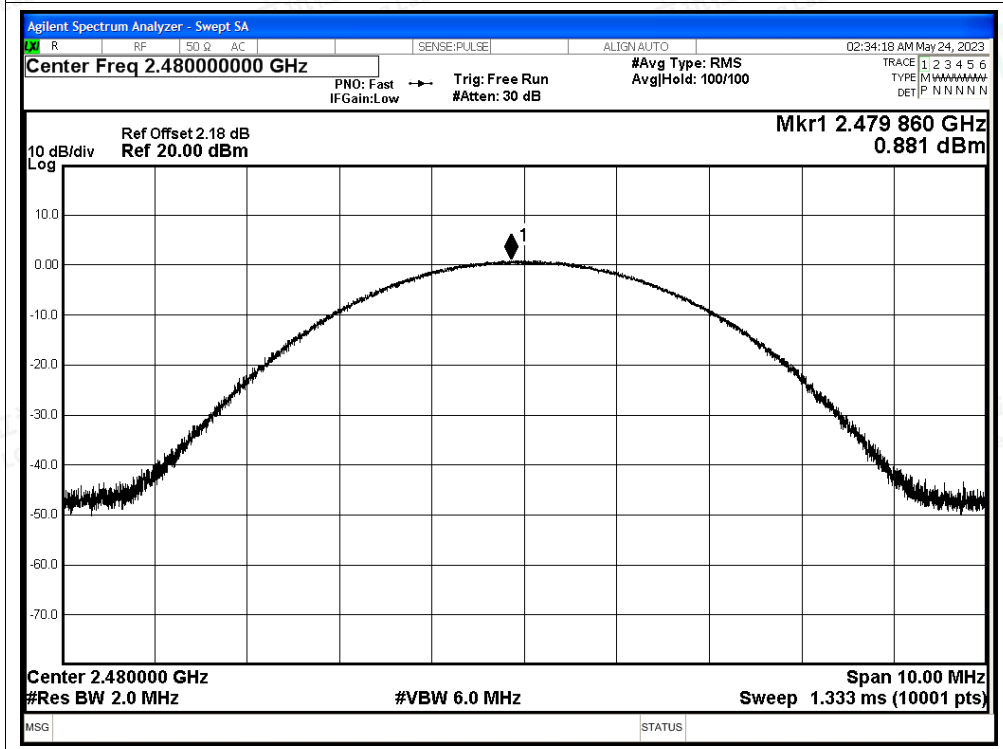
Power NVNT 2-DH5 2480MHz Ant1







Power NVNT 3-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	2401.97	2402.968	0.998	0.687	Pass
NVNT	2-DH5	Ant1	2401.84	2403.01	1.17	0.879	Pass
NVNT	3-DH5	Ant1	2402.168	2403.166	0.998	0.872	Pass

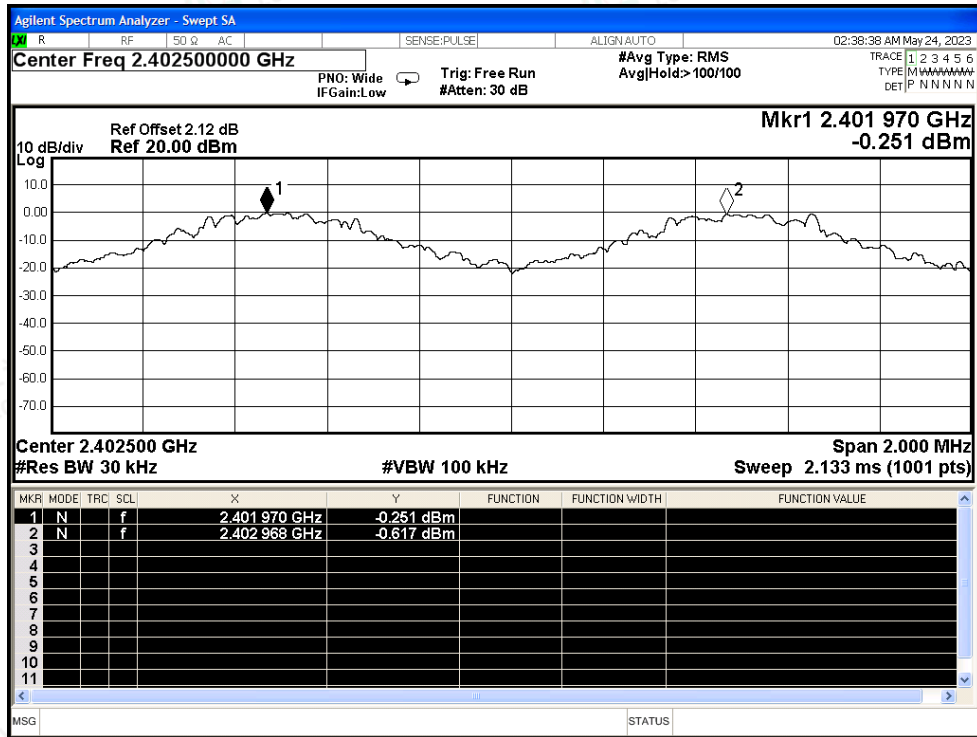


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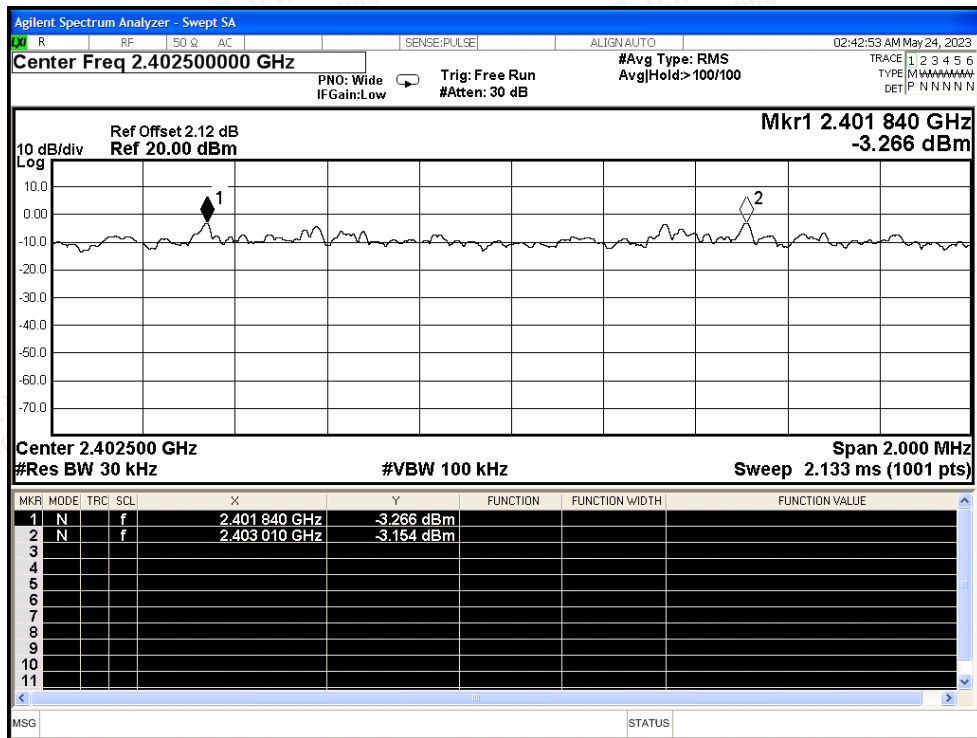


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

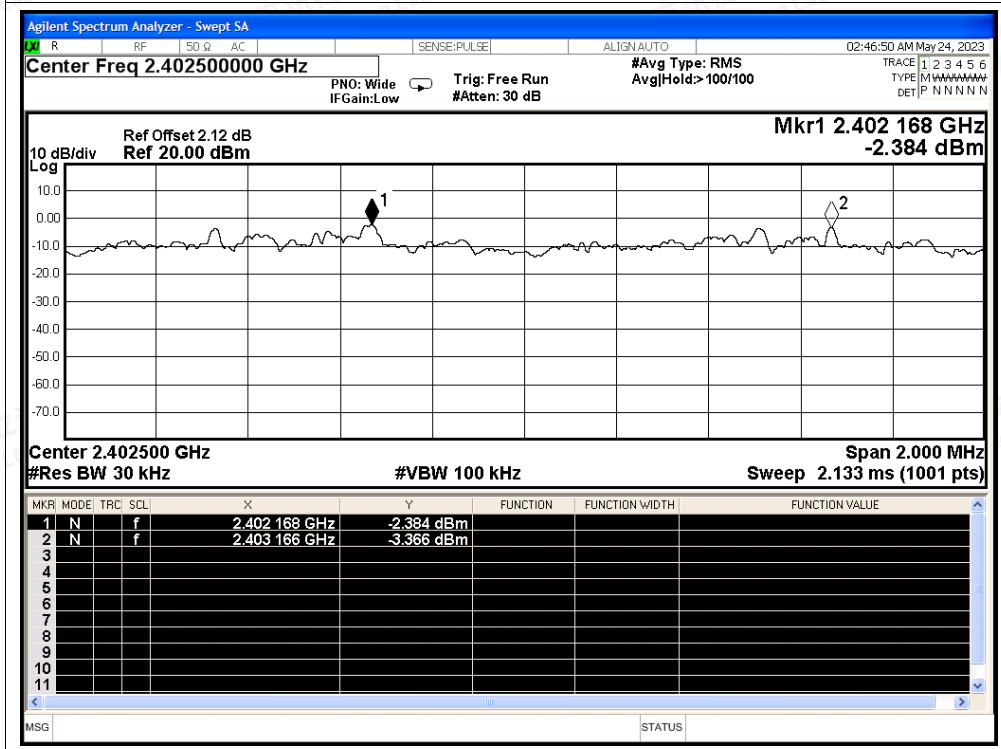


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-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	302.61	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	293.862	102	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	311.904	108	31600	400	Pass

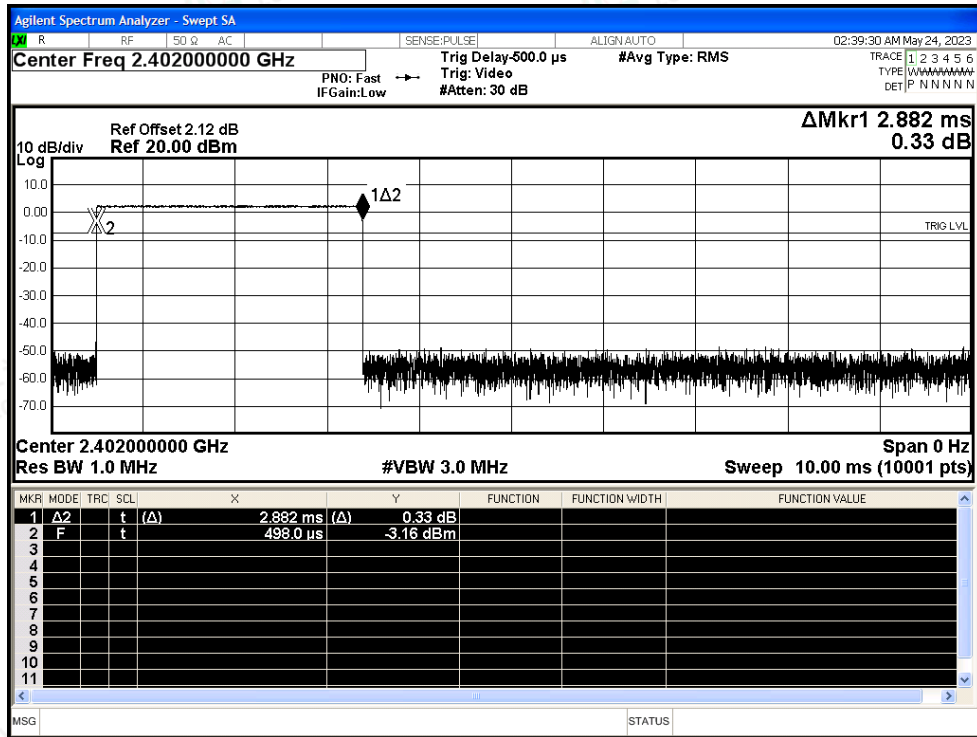


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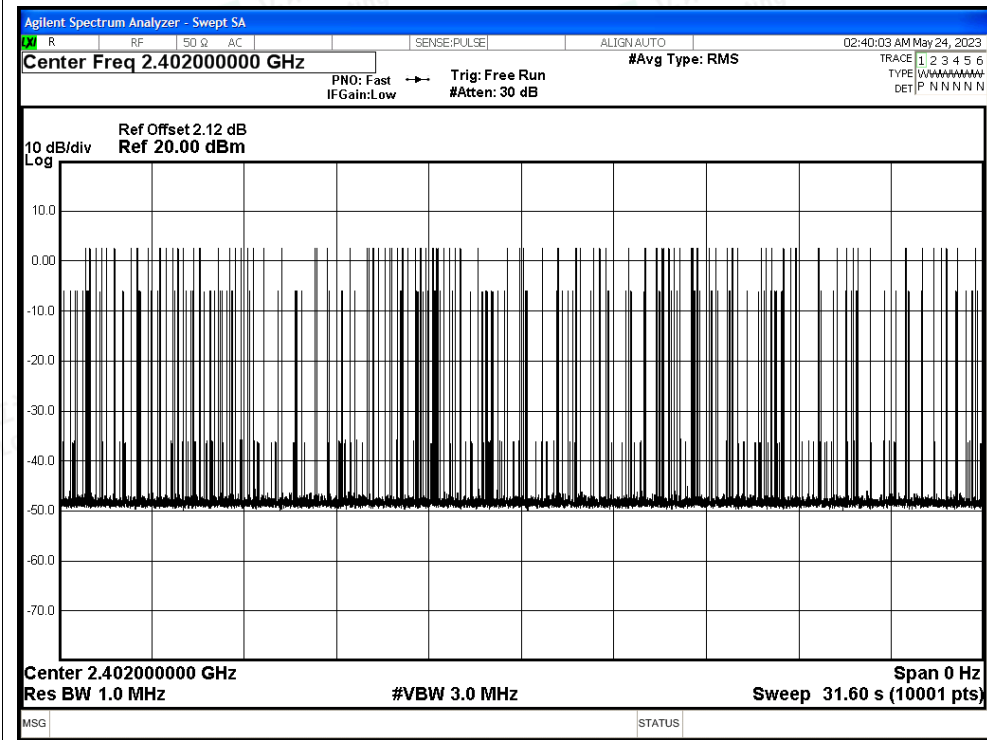


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

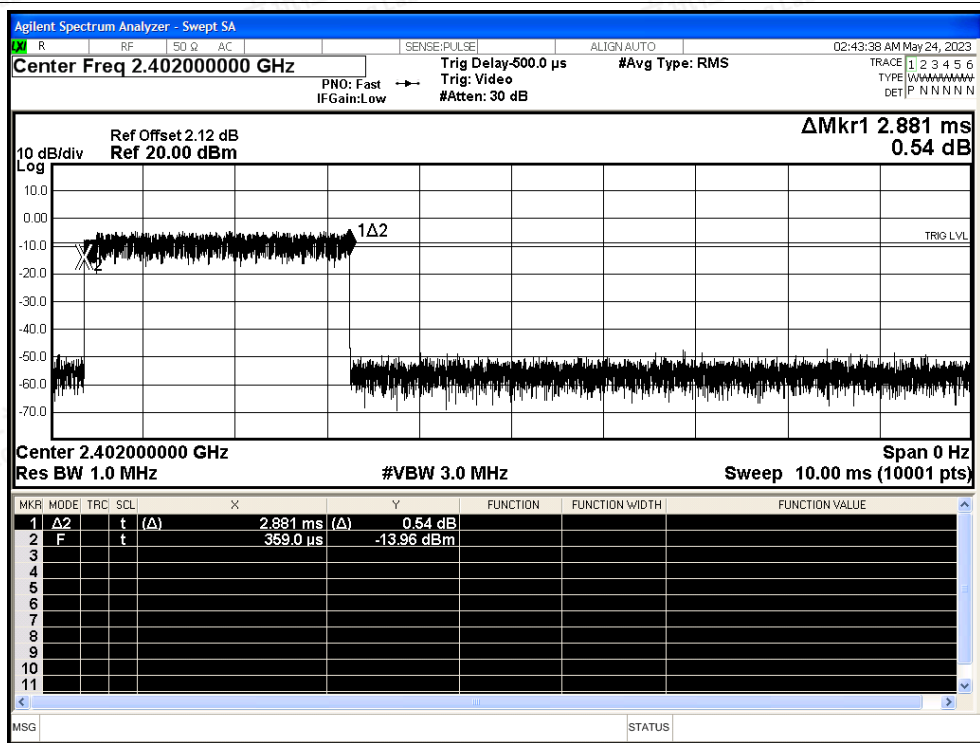


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

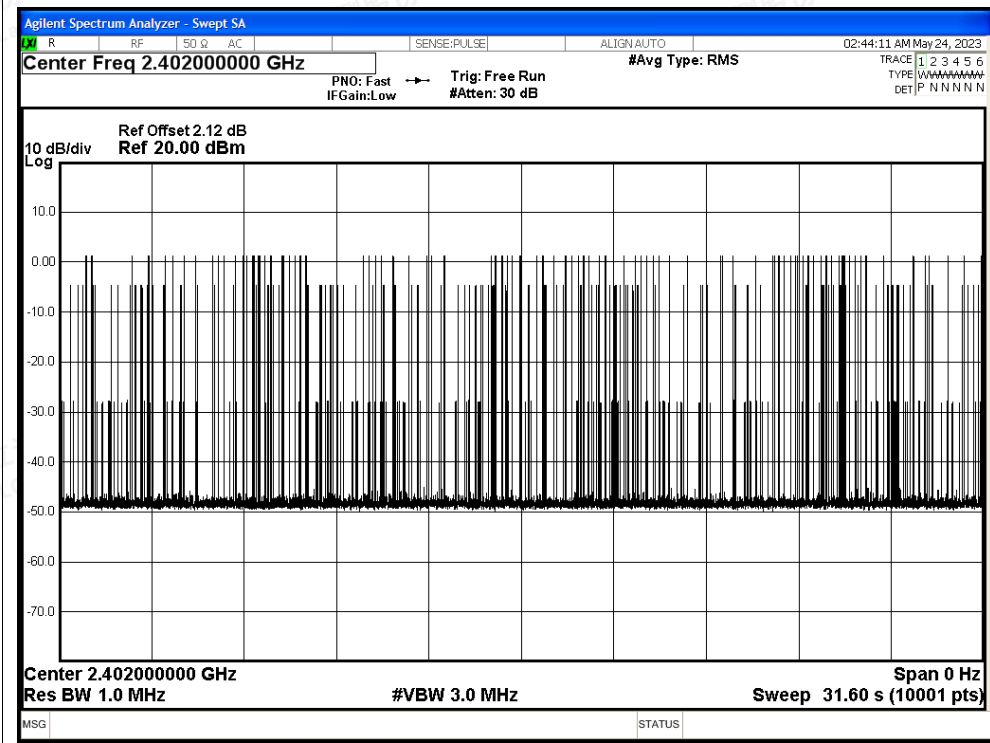




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

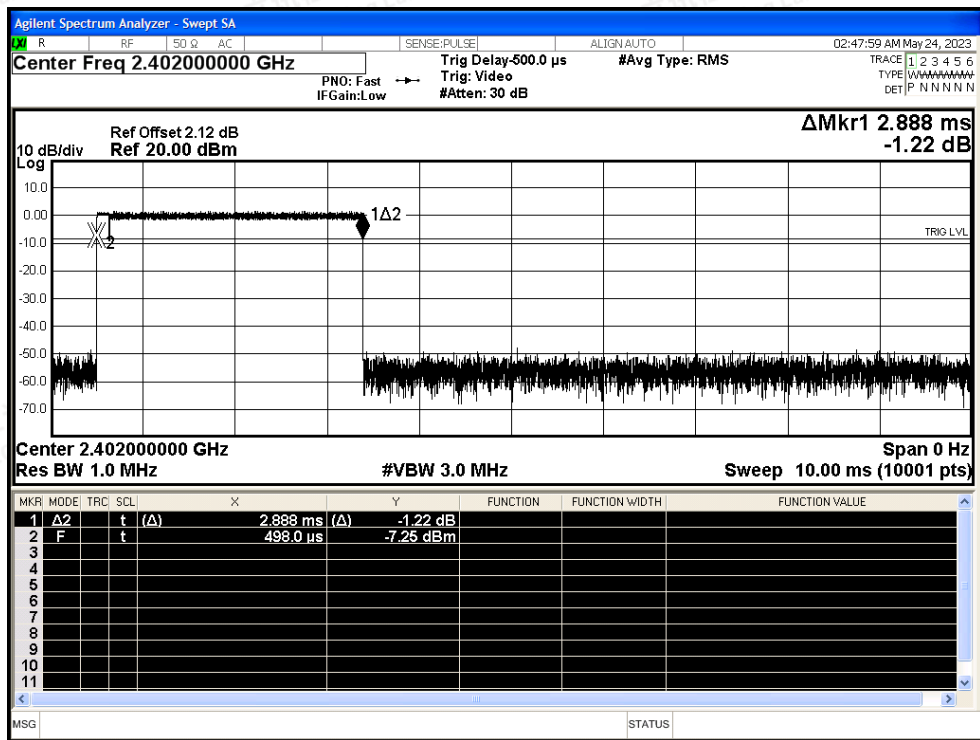


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

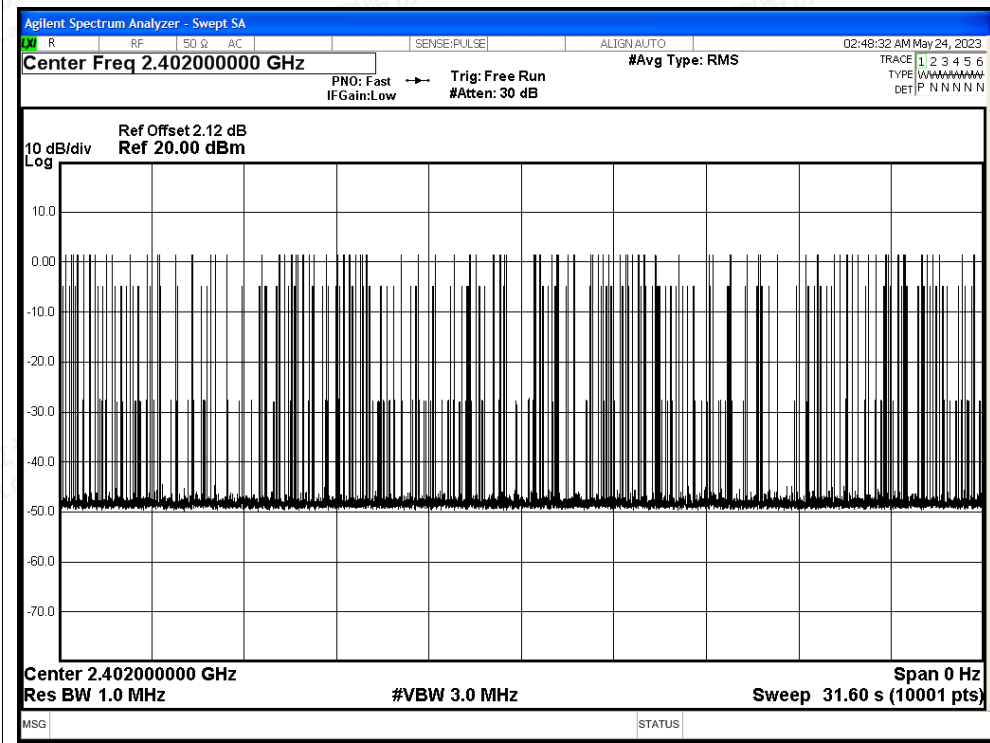




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

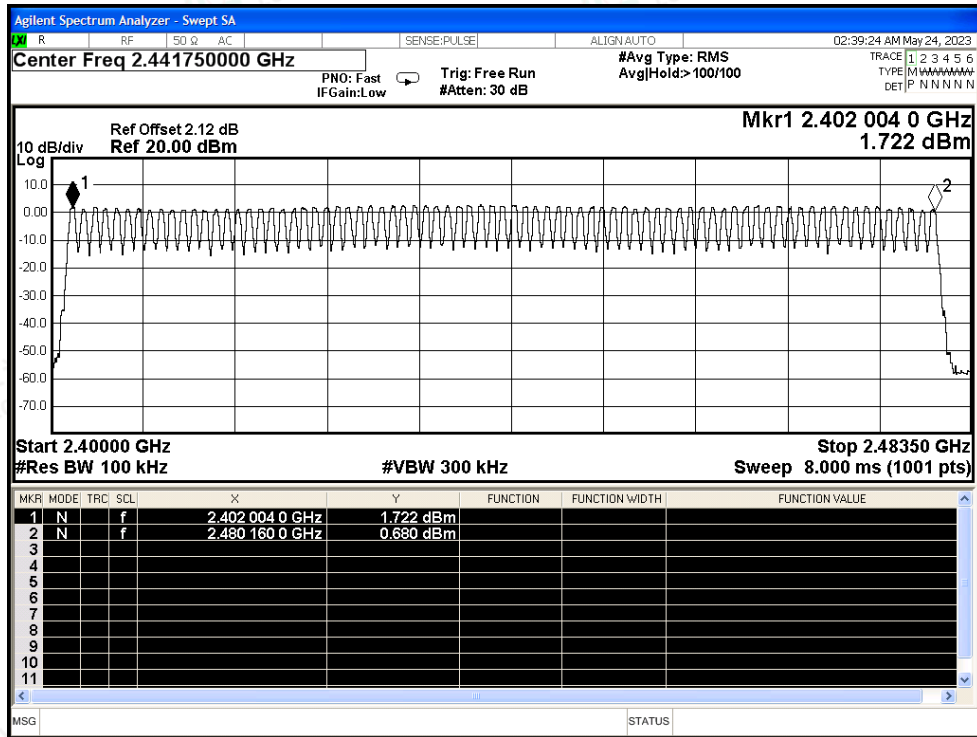
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



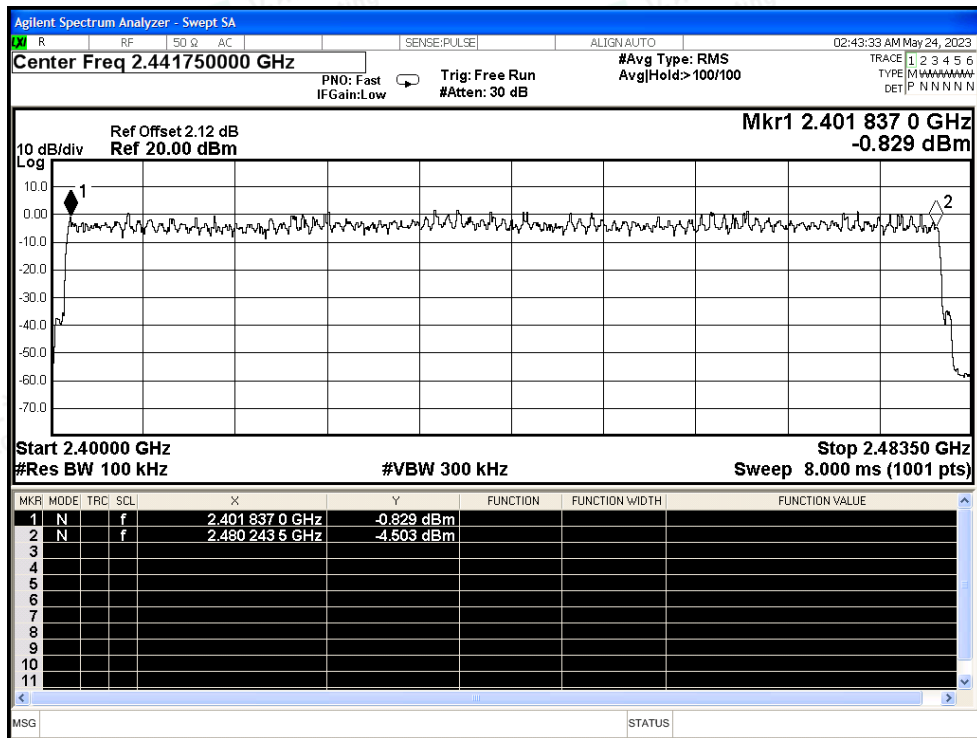


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

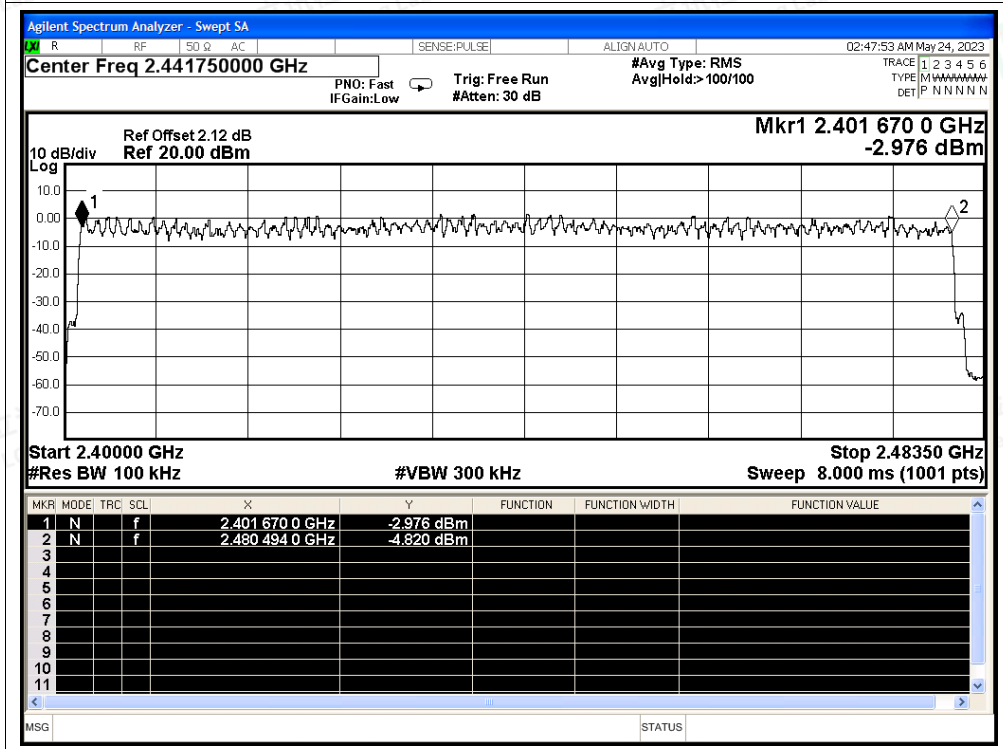


Hopping No. NVNT 2-DH5 2402MHz Ant1





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	-56.14	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.76	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.4	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.05	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.14	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-51.62	-20	Pass

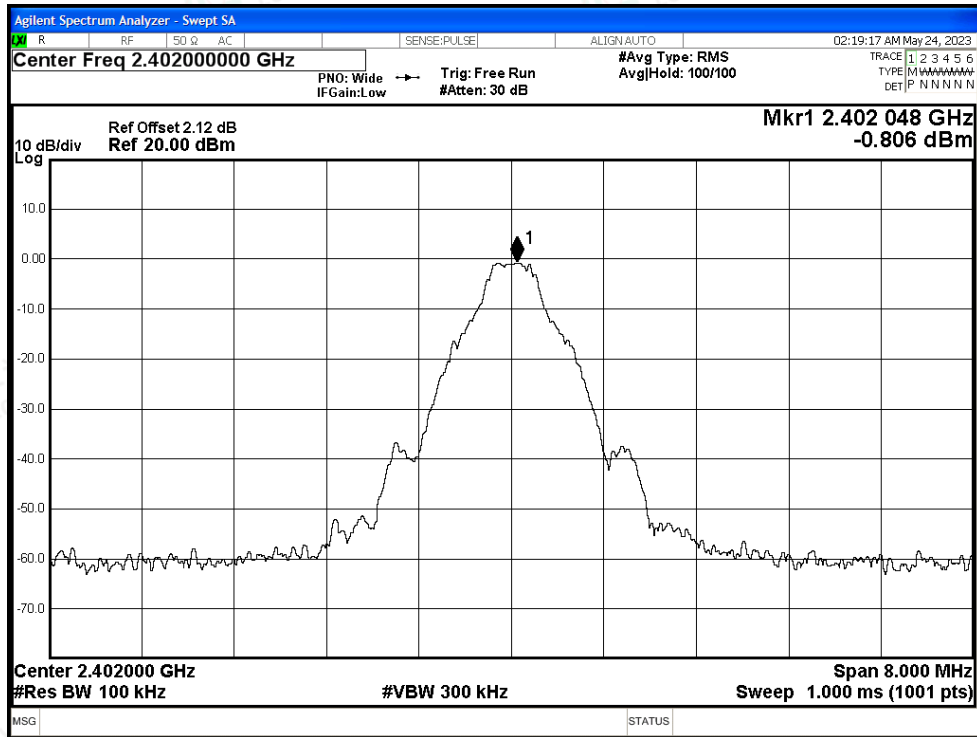


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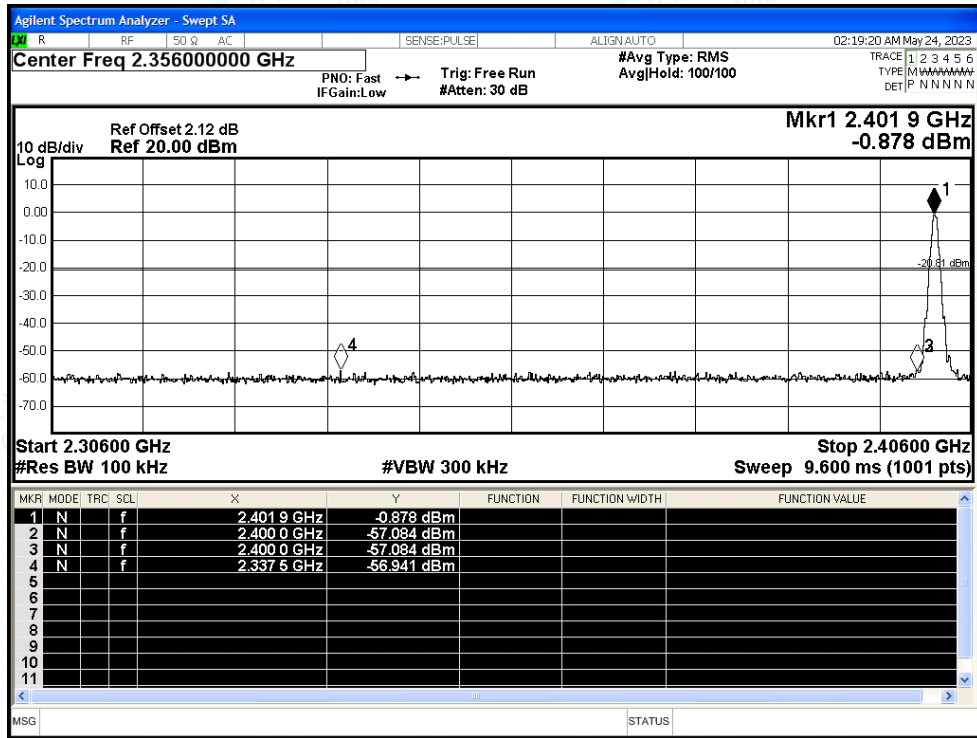


Test Graphs

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

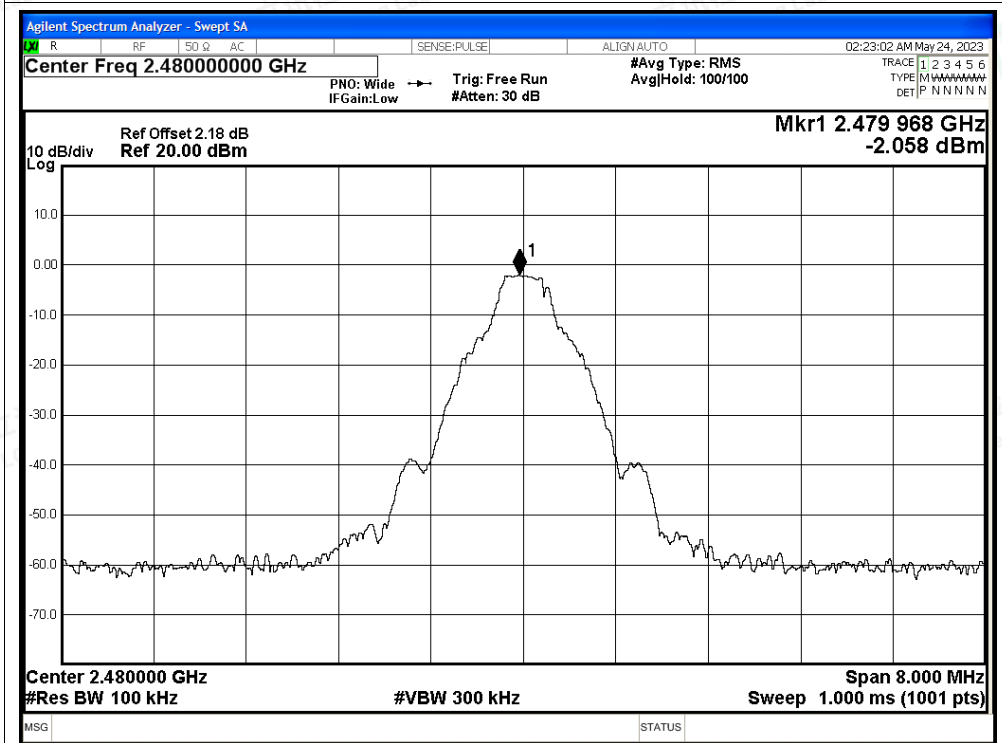


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

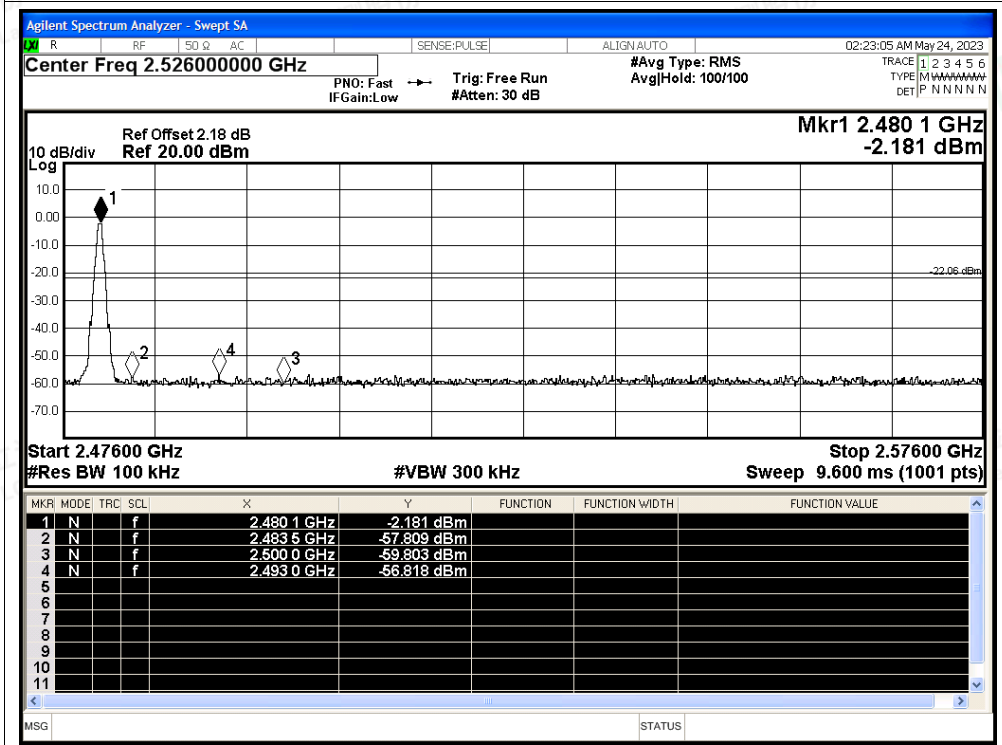




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

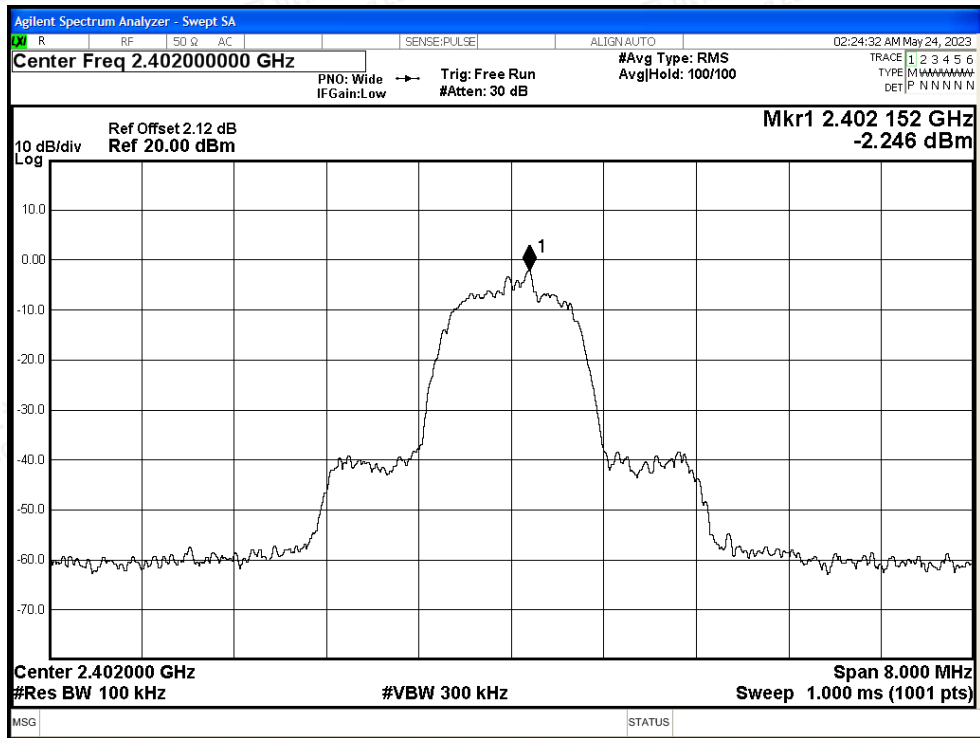


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

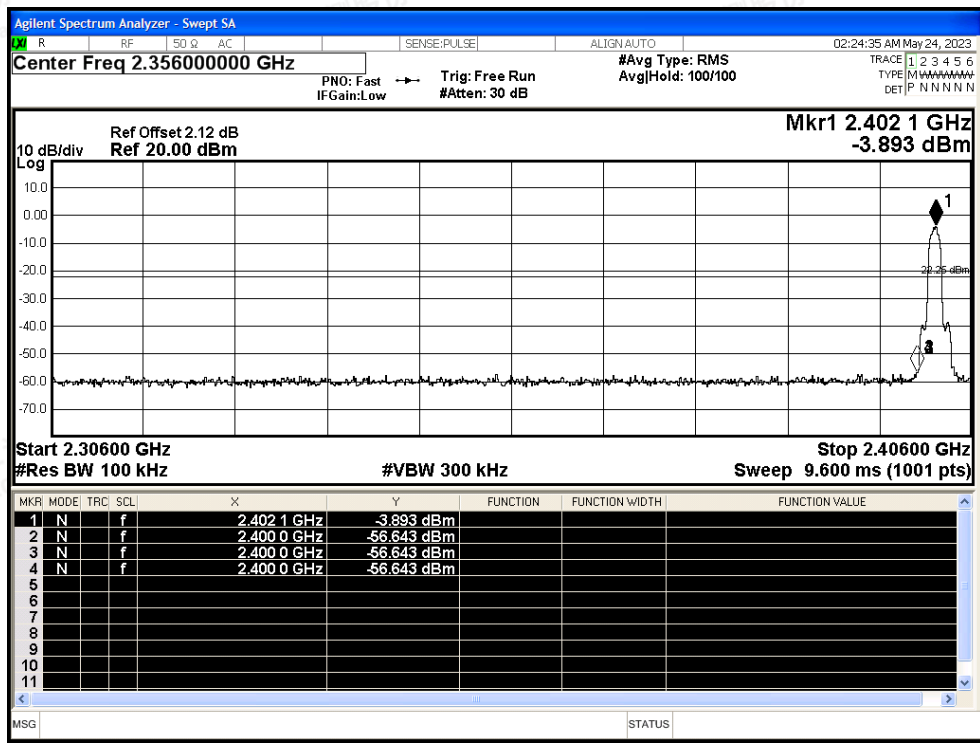




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

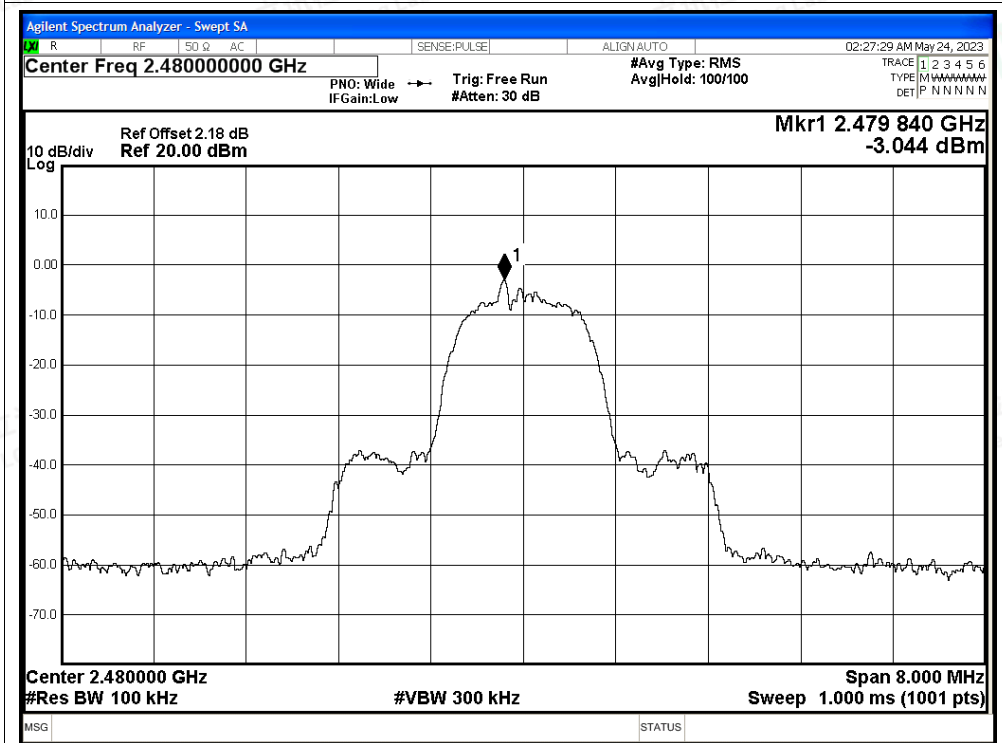


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

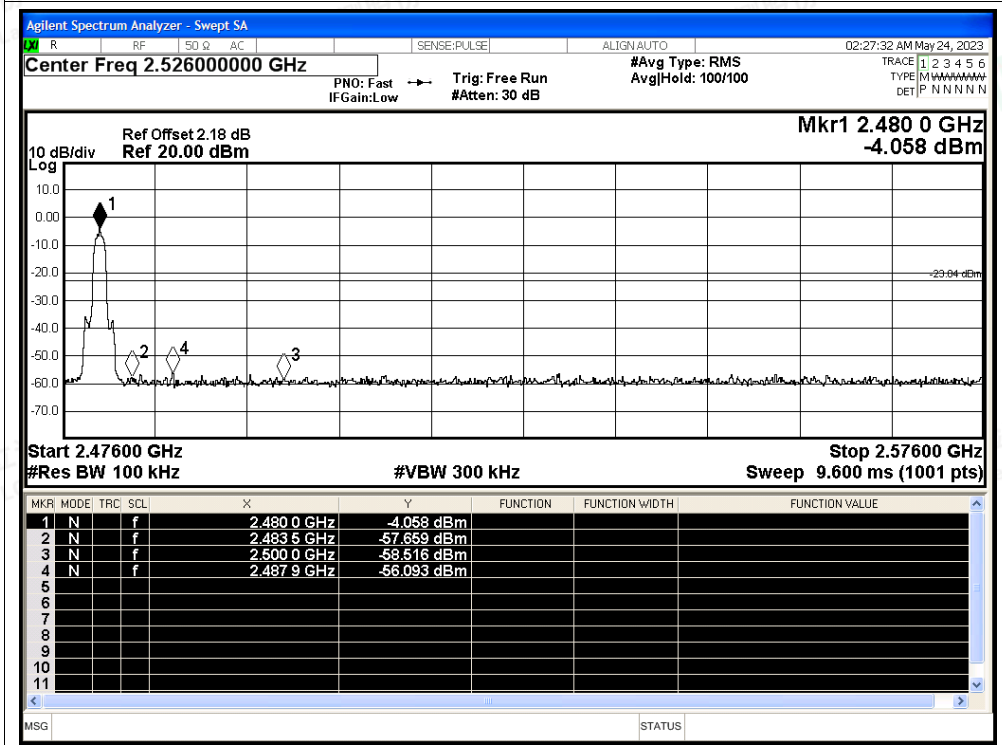




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

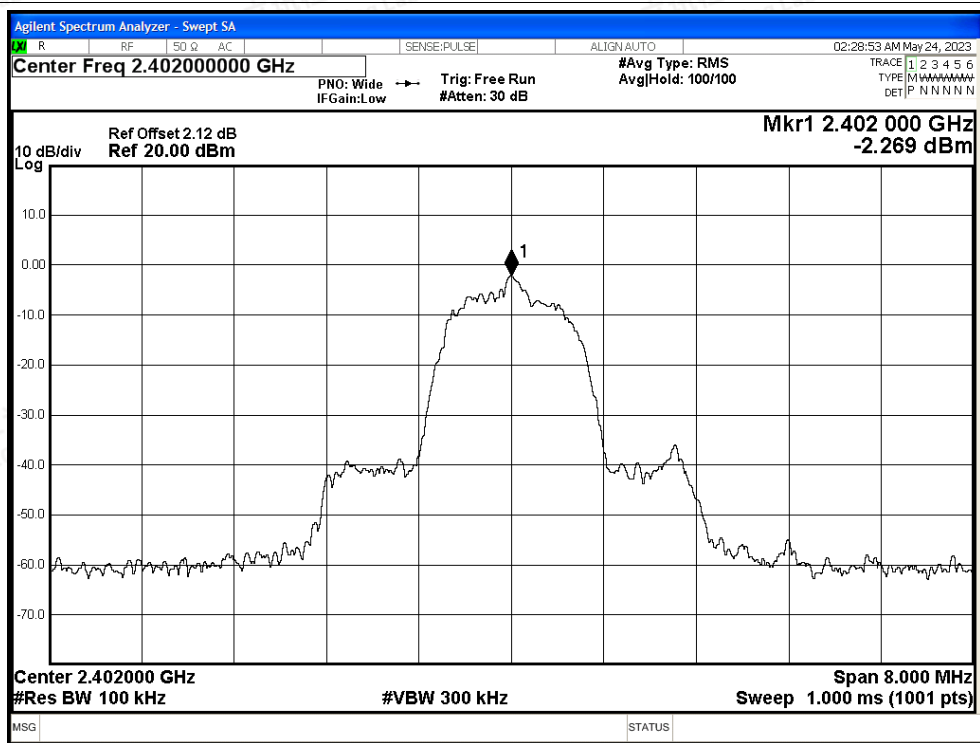


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

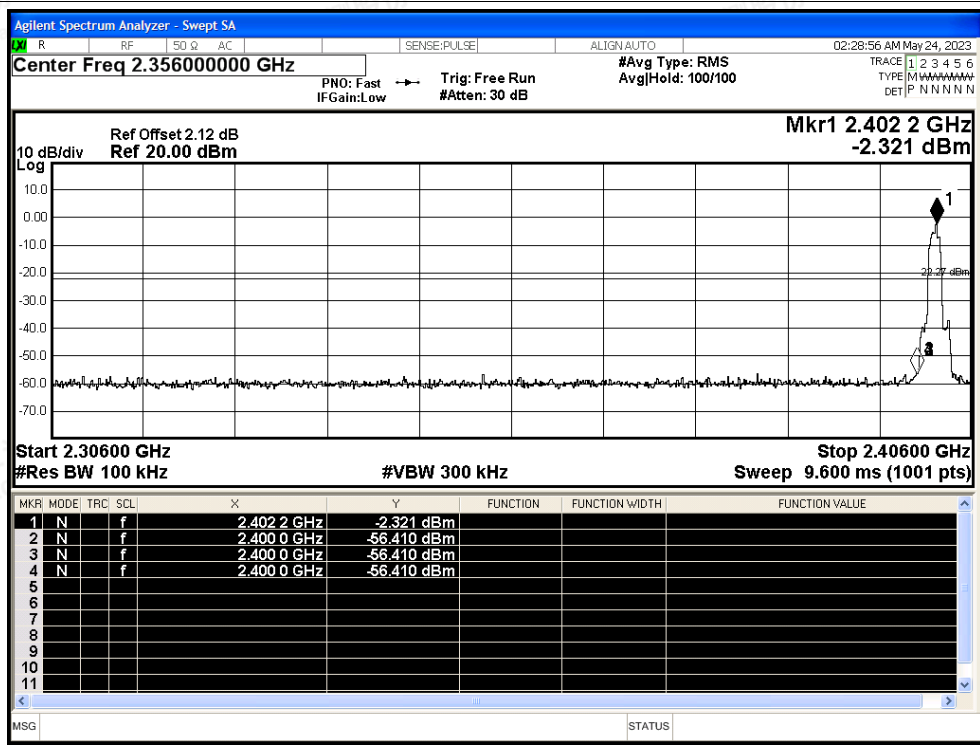




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

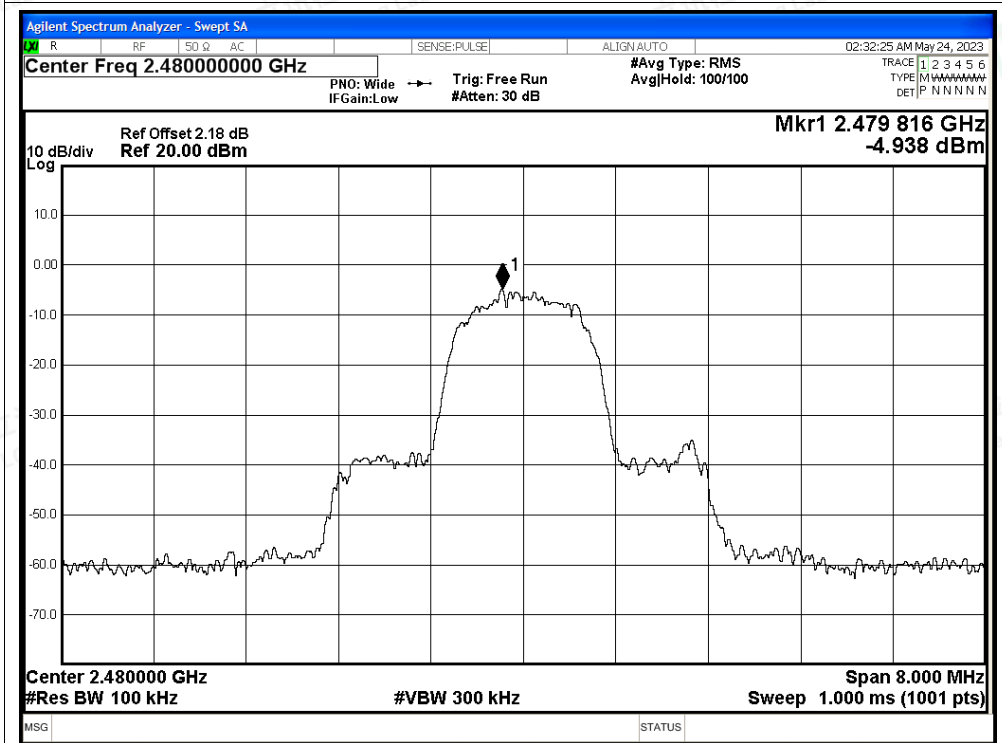


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

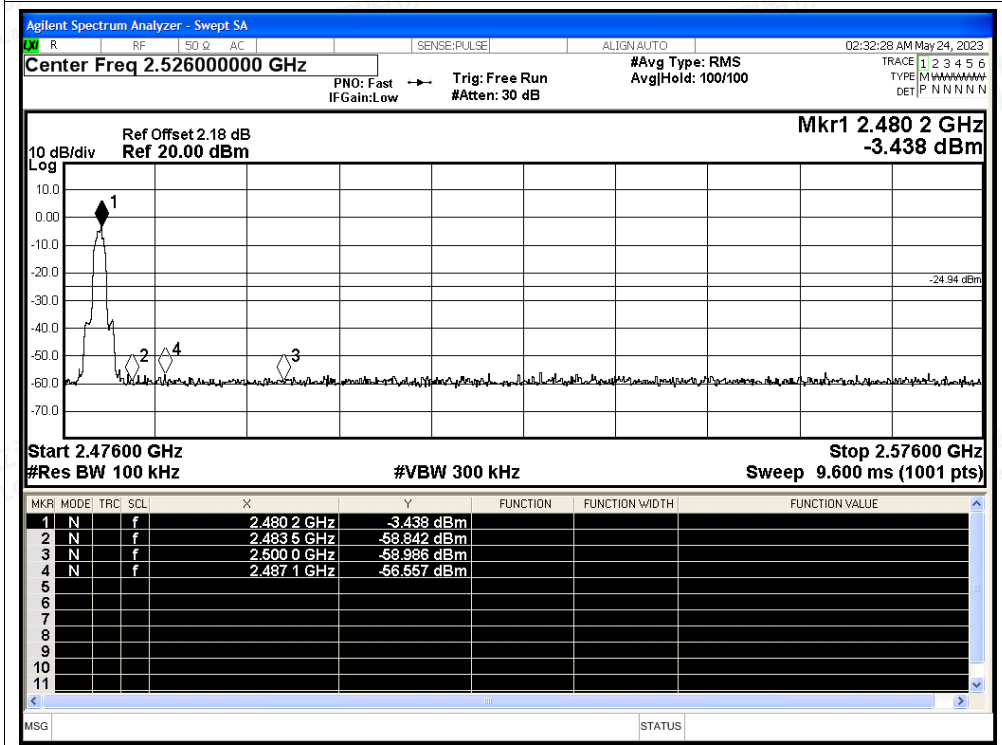




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-57.65	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.62	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.92	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.95	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.47	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.43	-20	Pass

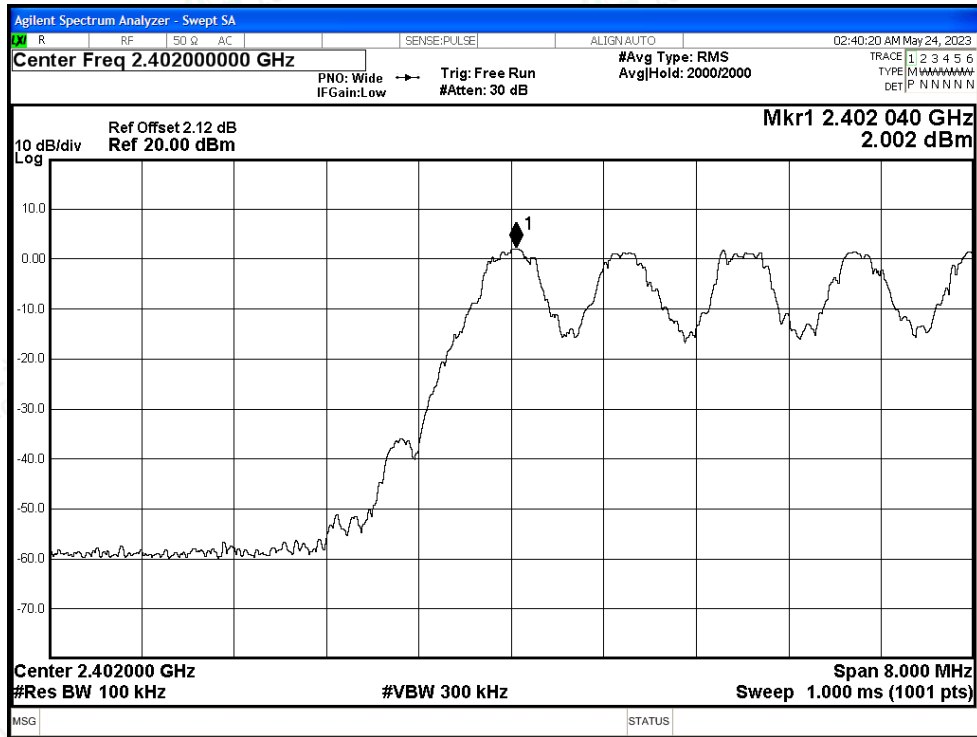


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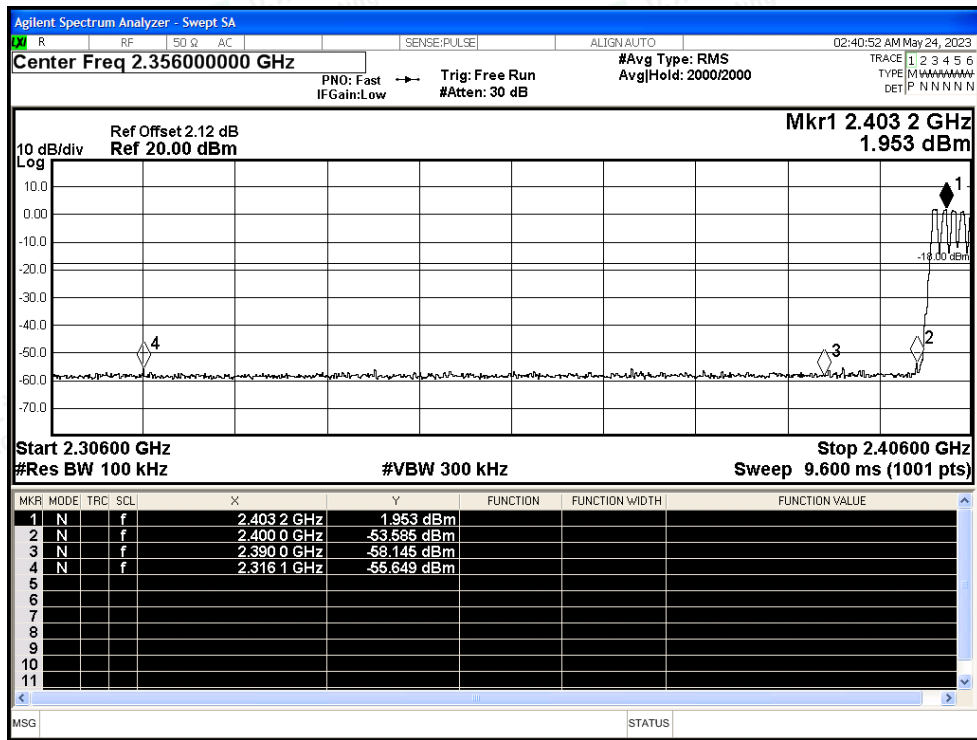


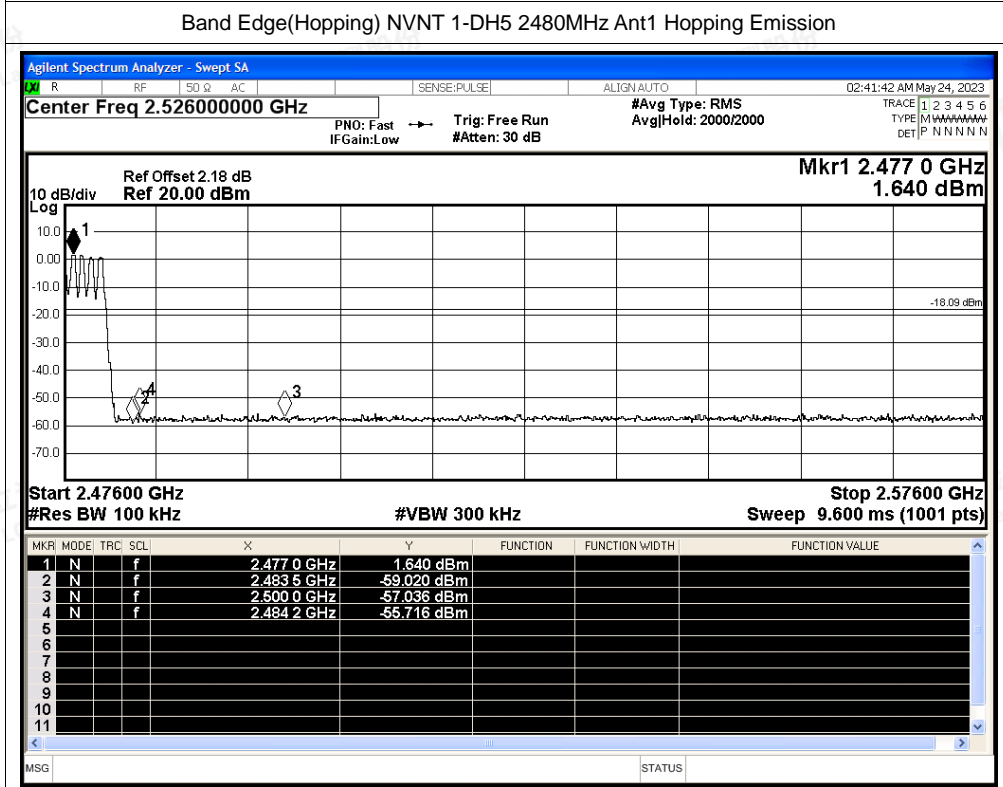
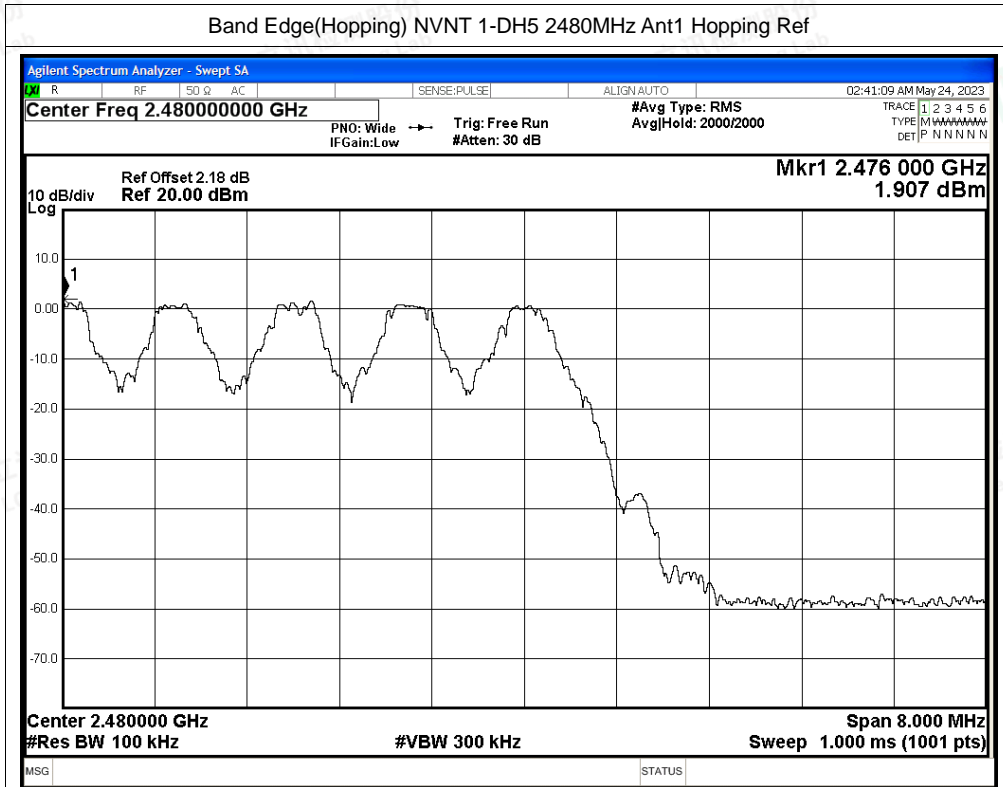
Test Graphs

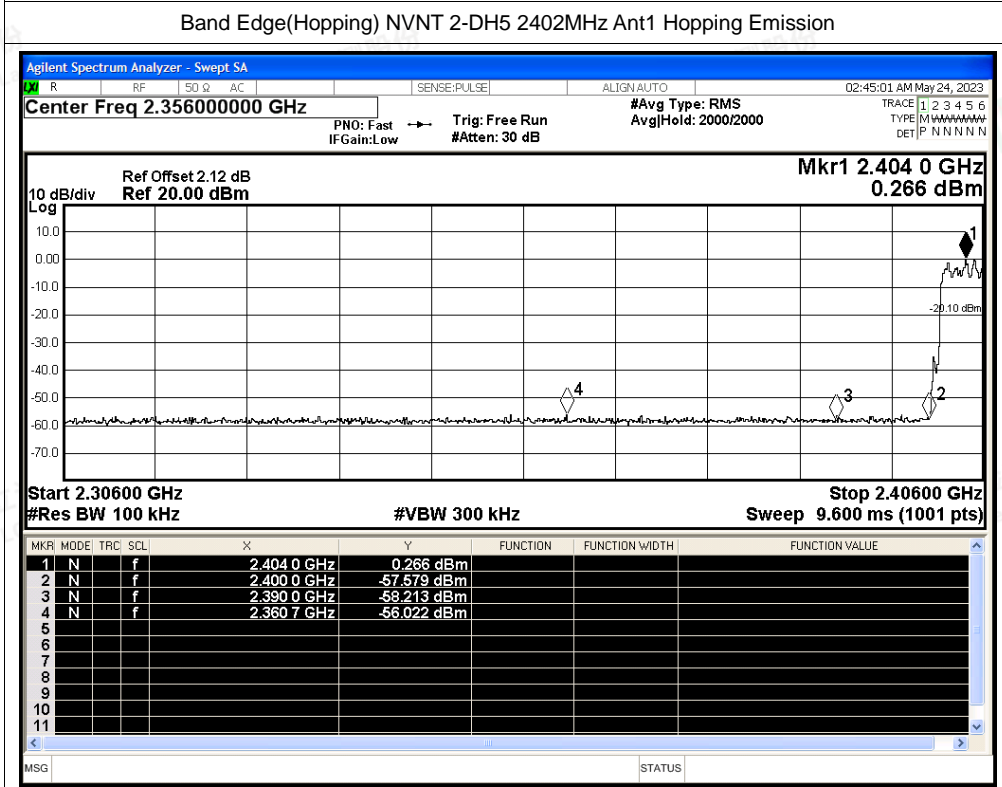
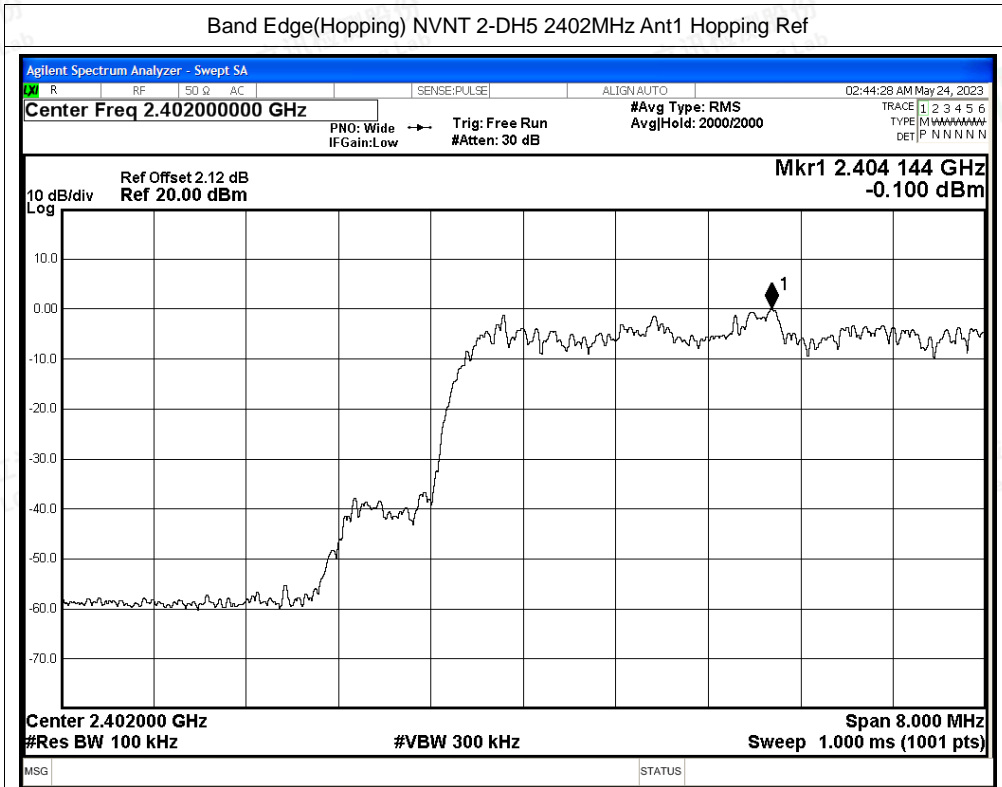
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

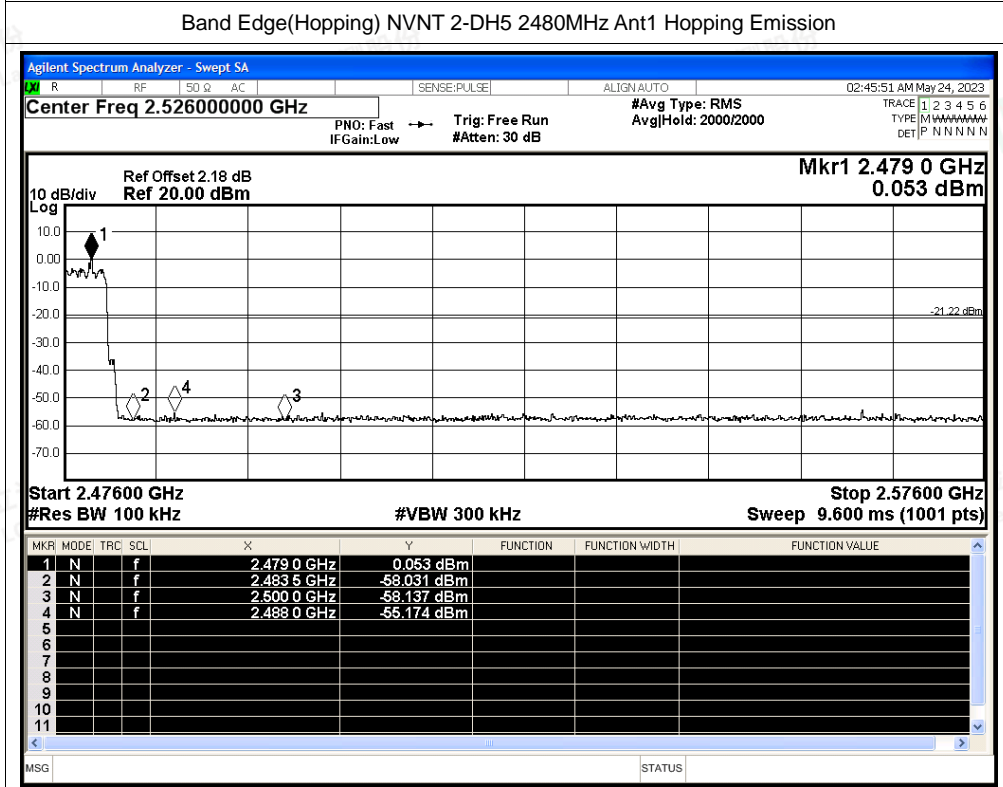
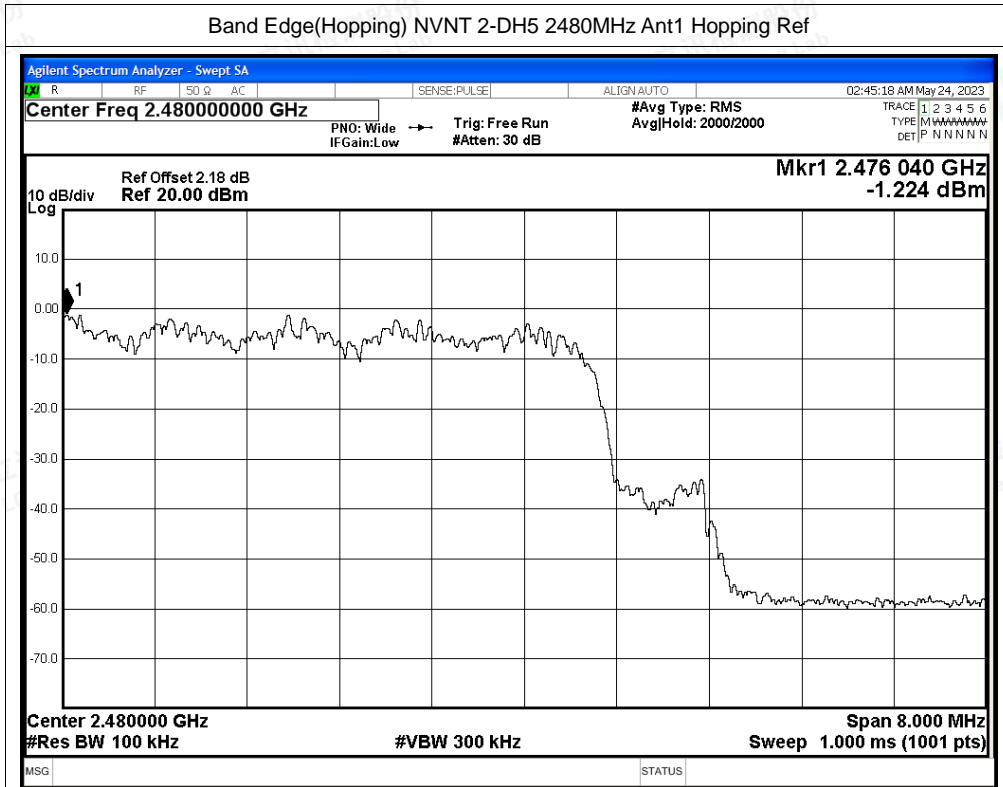


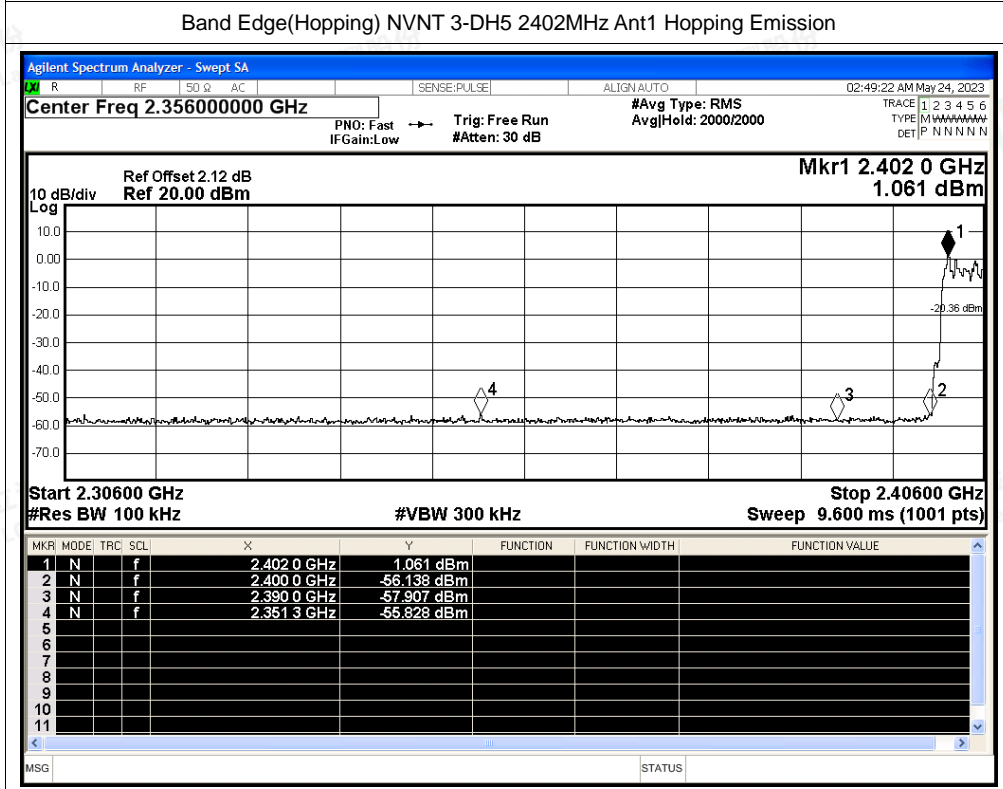
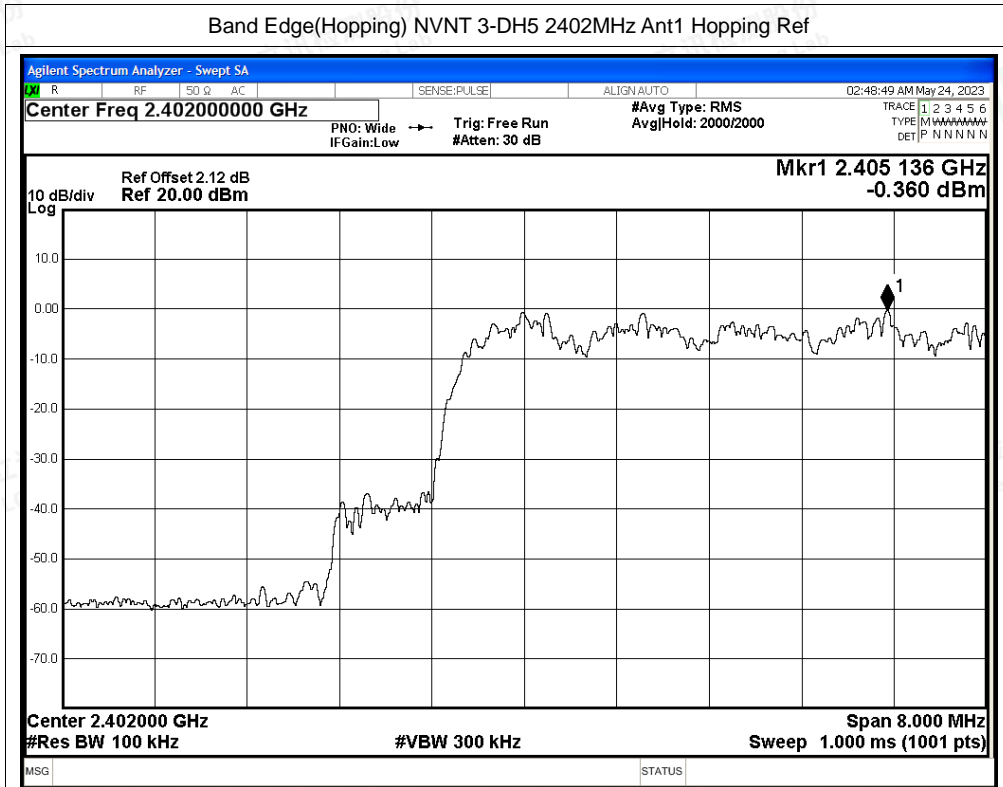
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

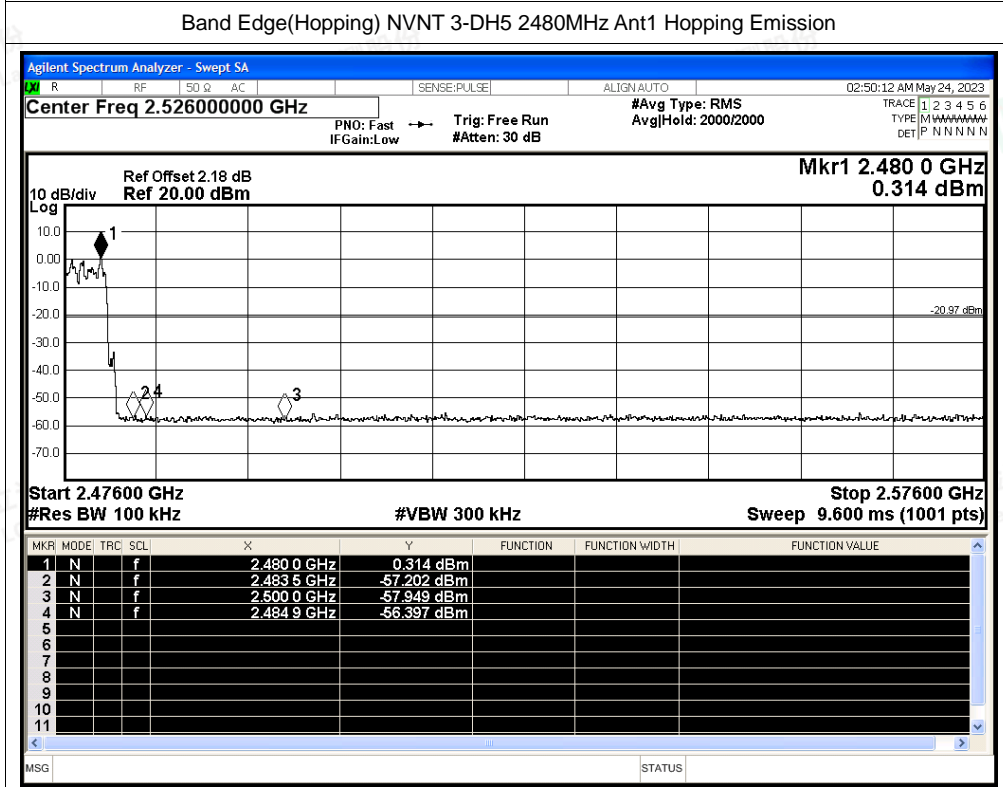
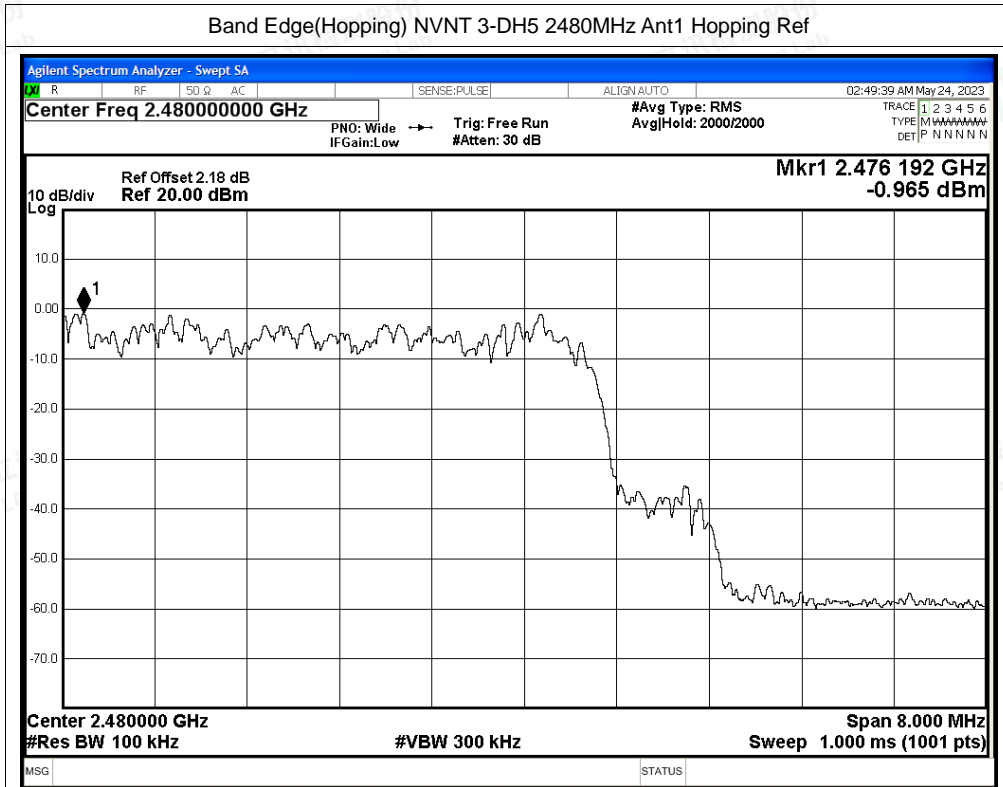














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.21	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.91	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.49	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.13	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.15	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.27	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.93	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.28	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.25	-20	Pass

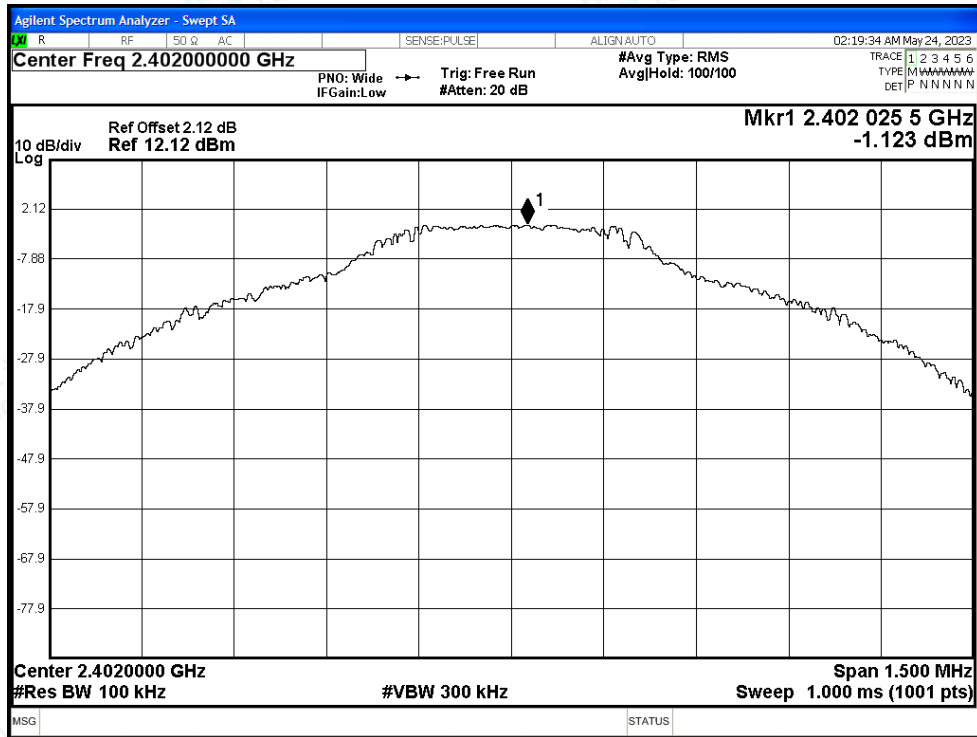


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Scan code to check authenticity

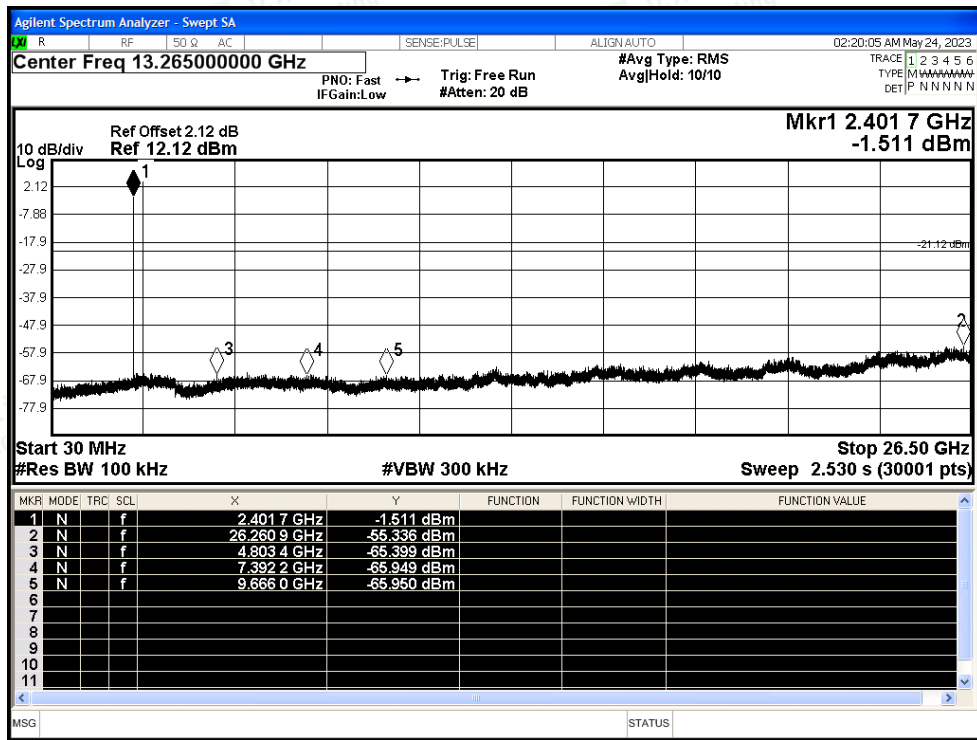


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

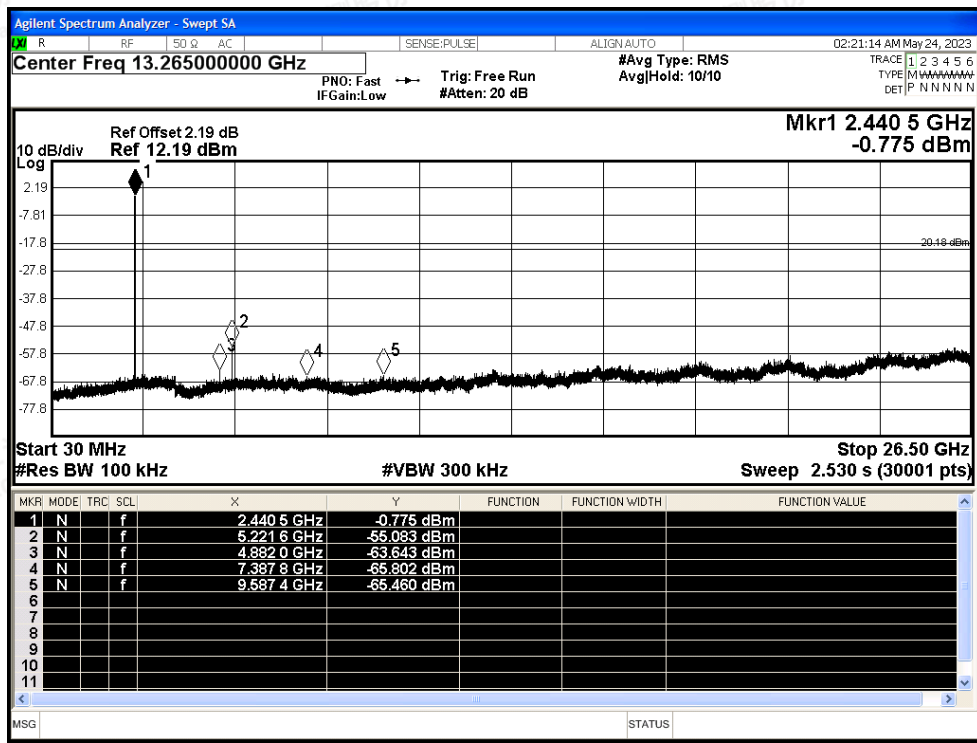




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

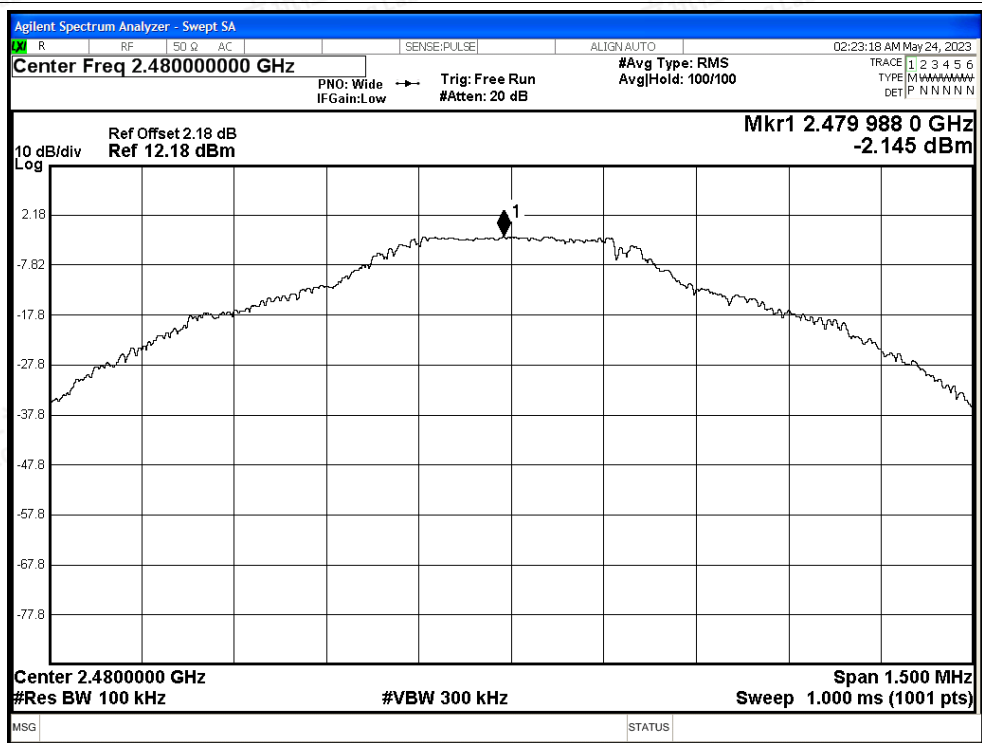


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

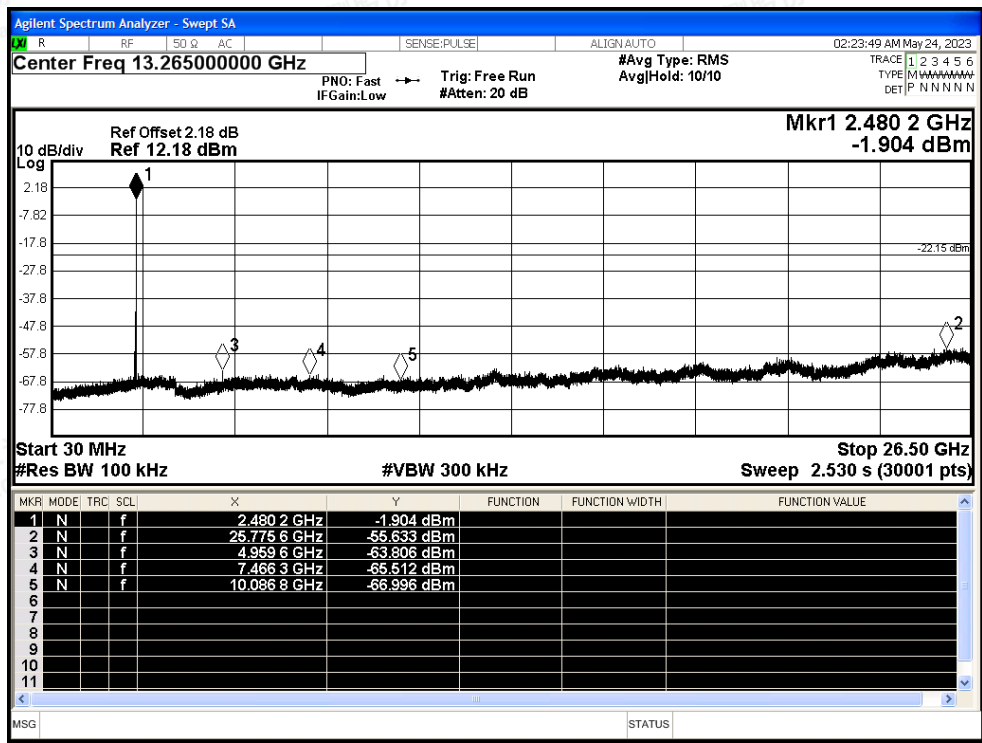




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

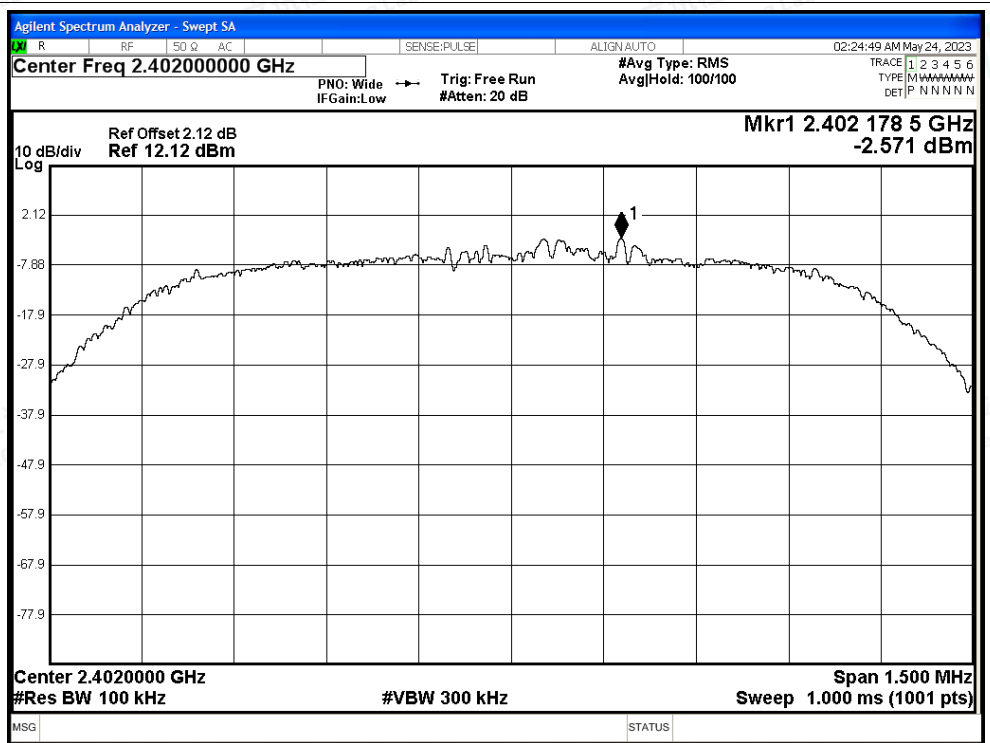


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

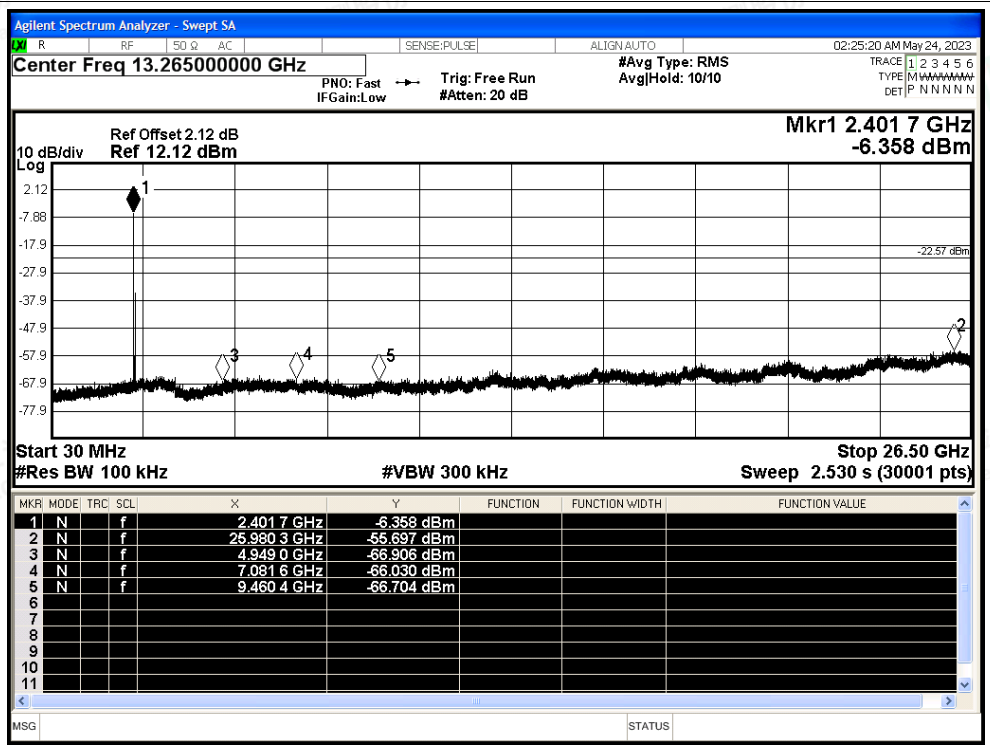




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

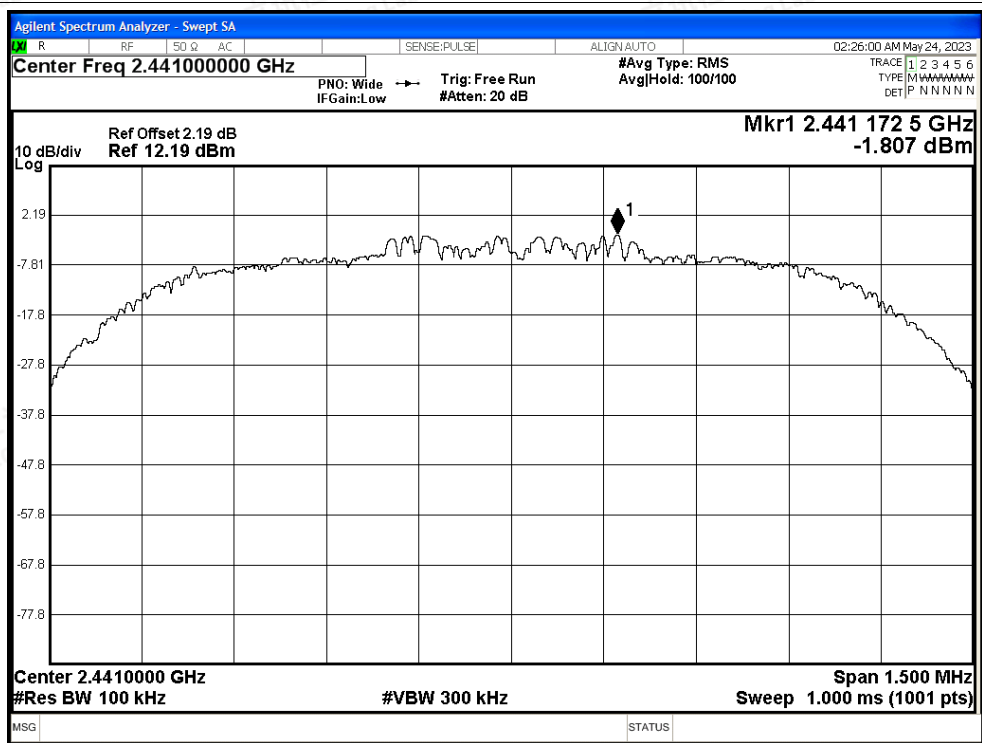


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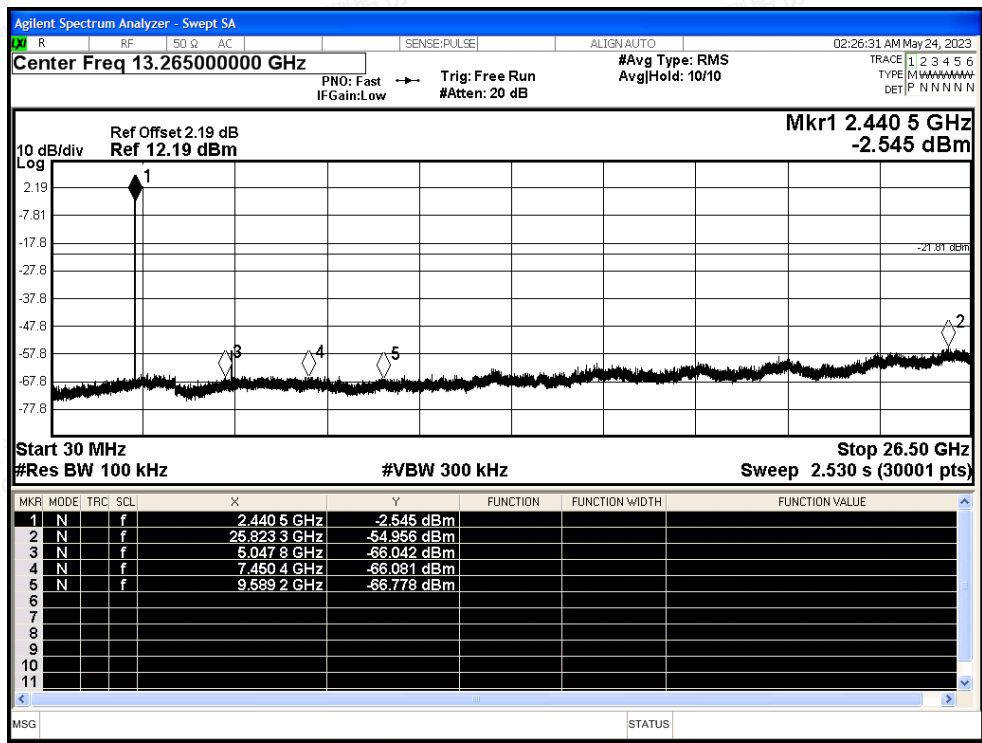




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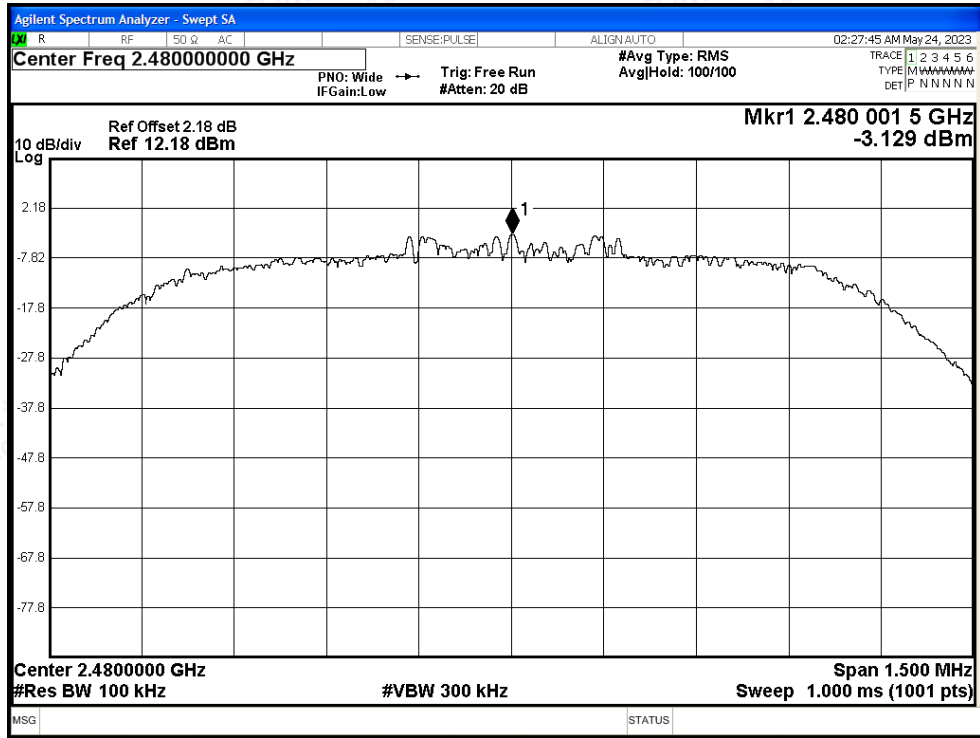


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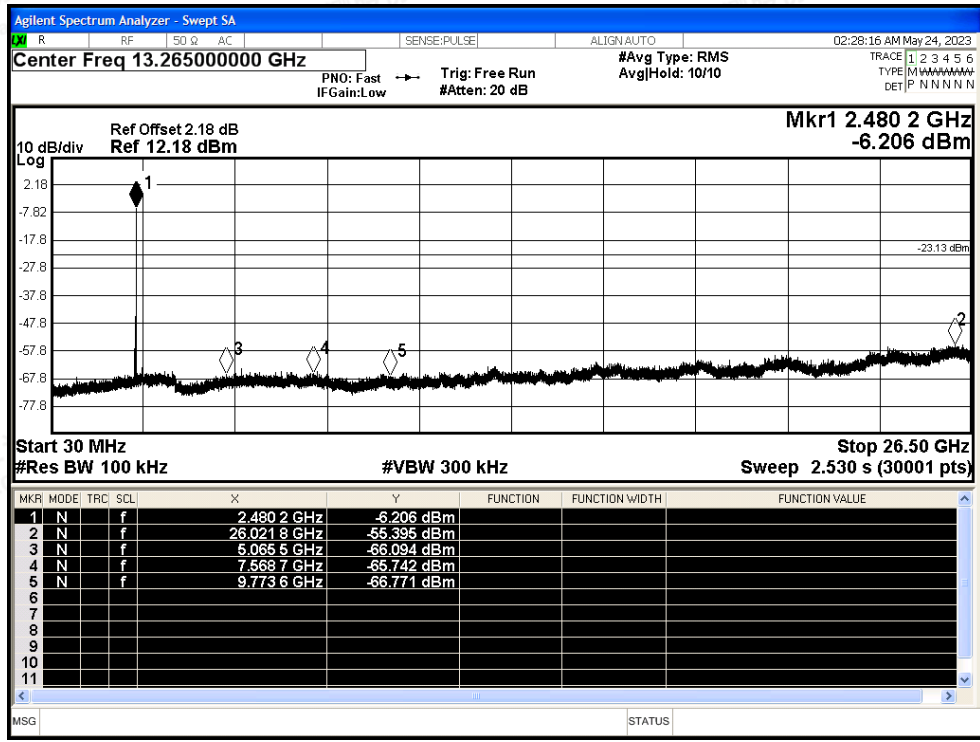




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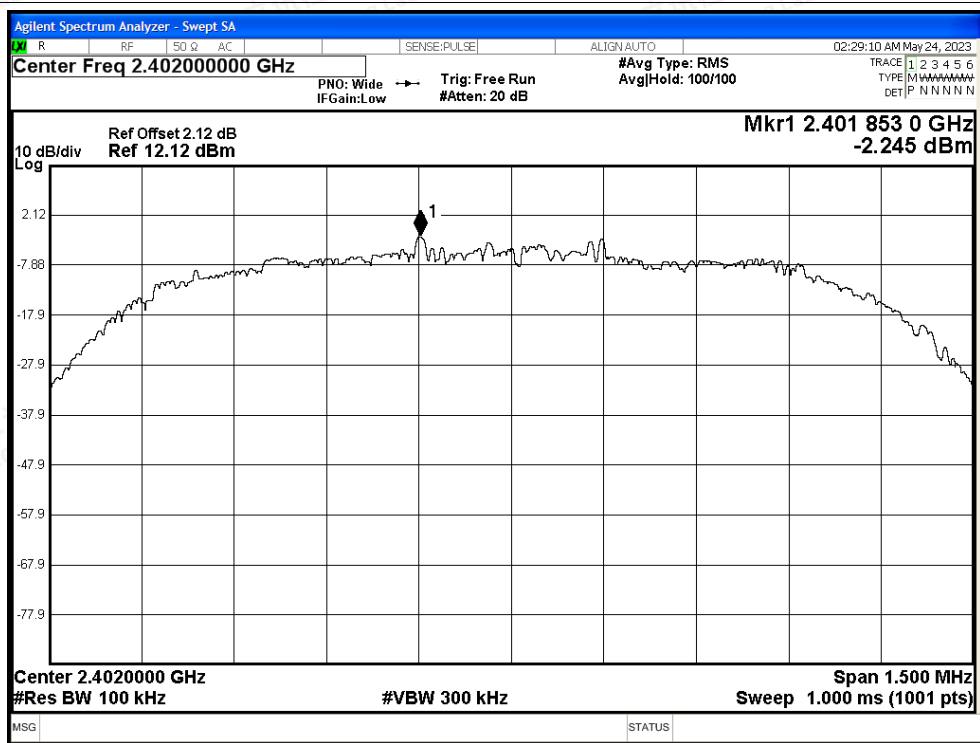


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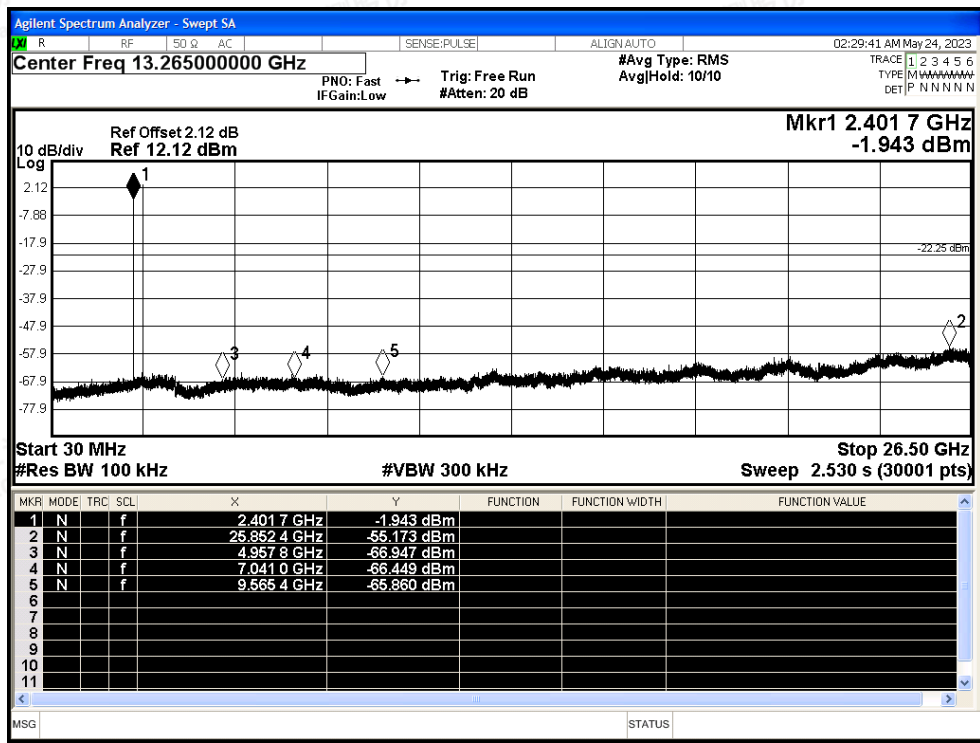




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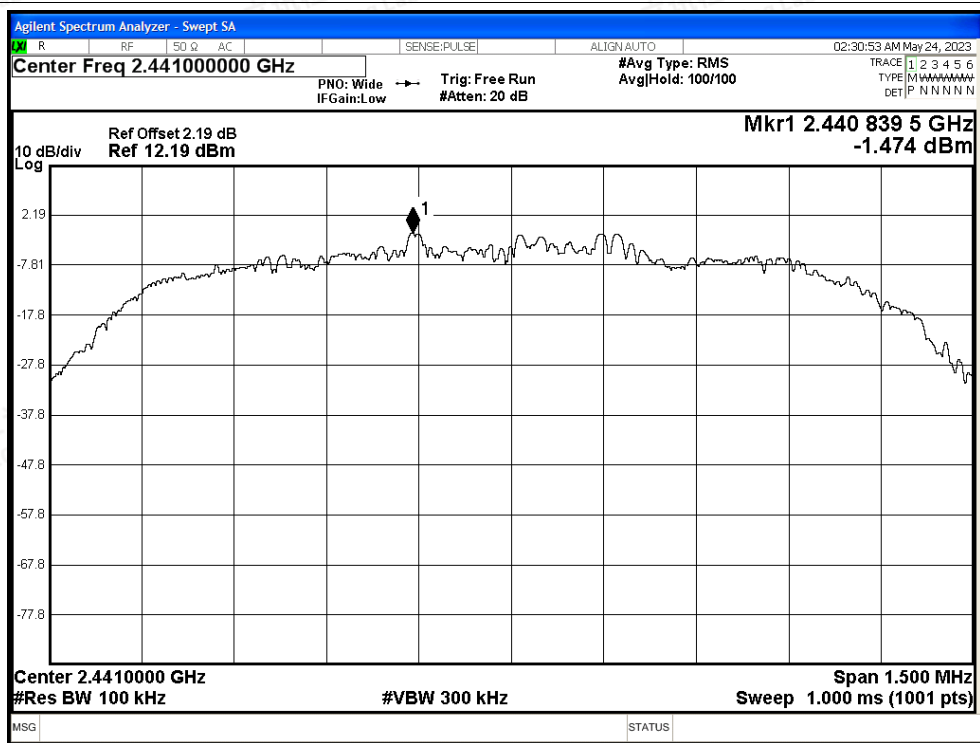


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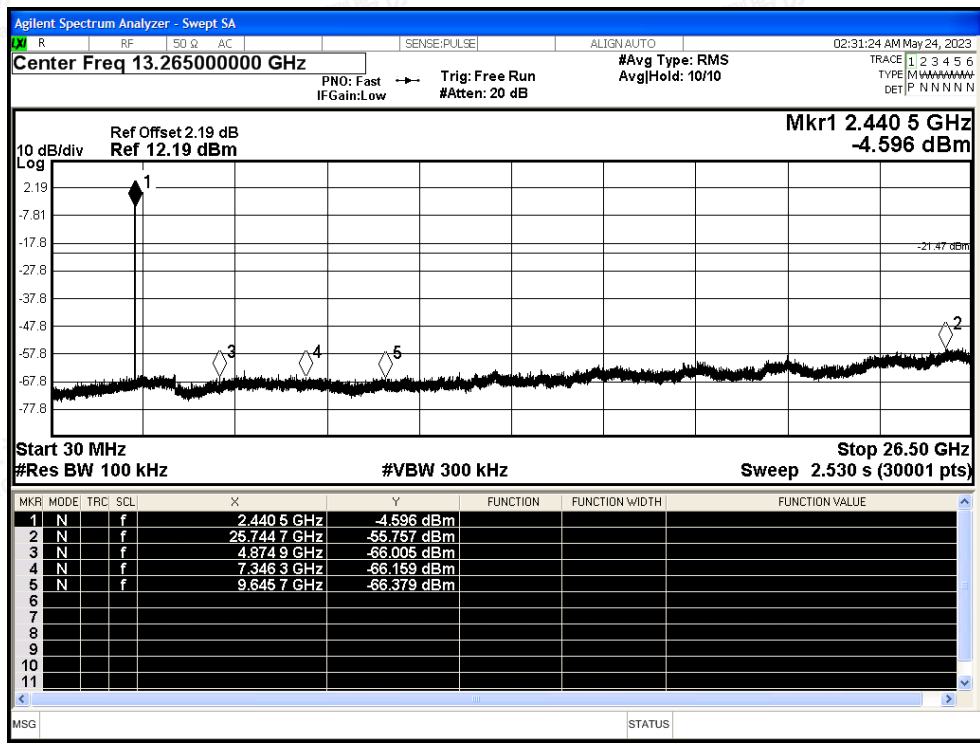




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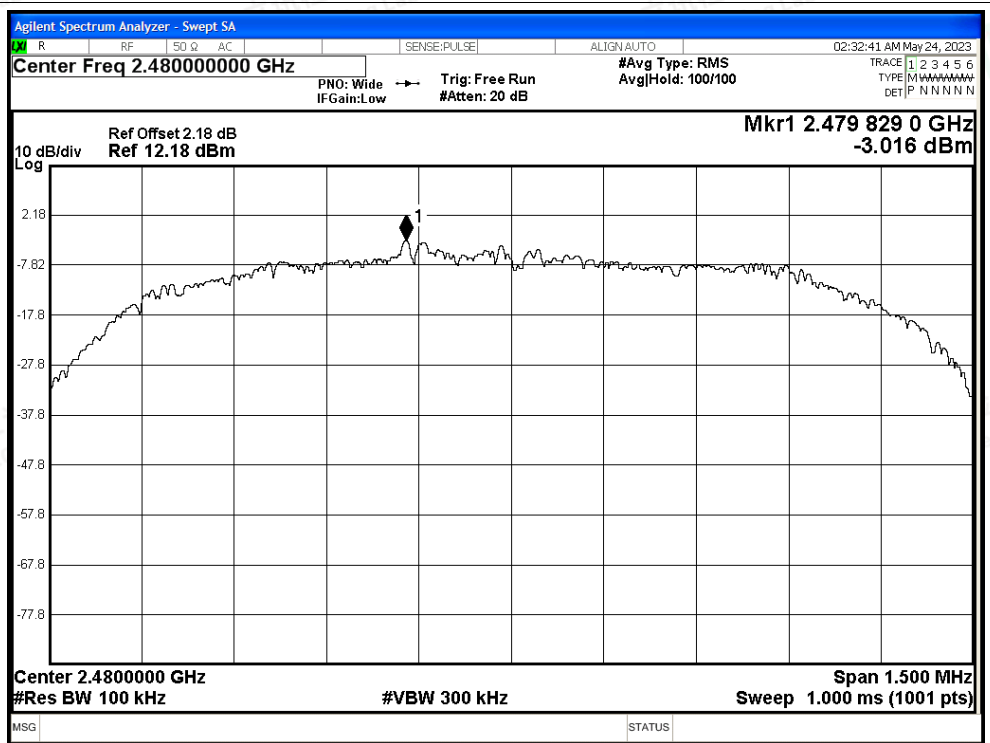


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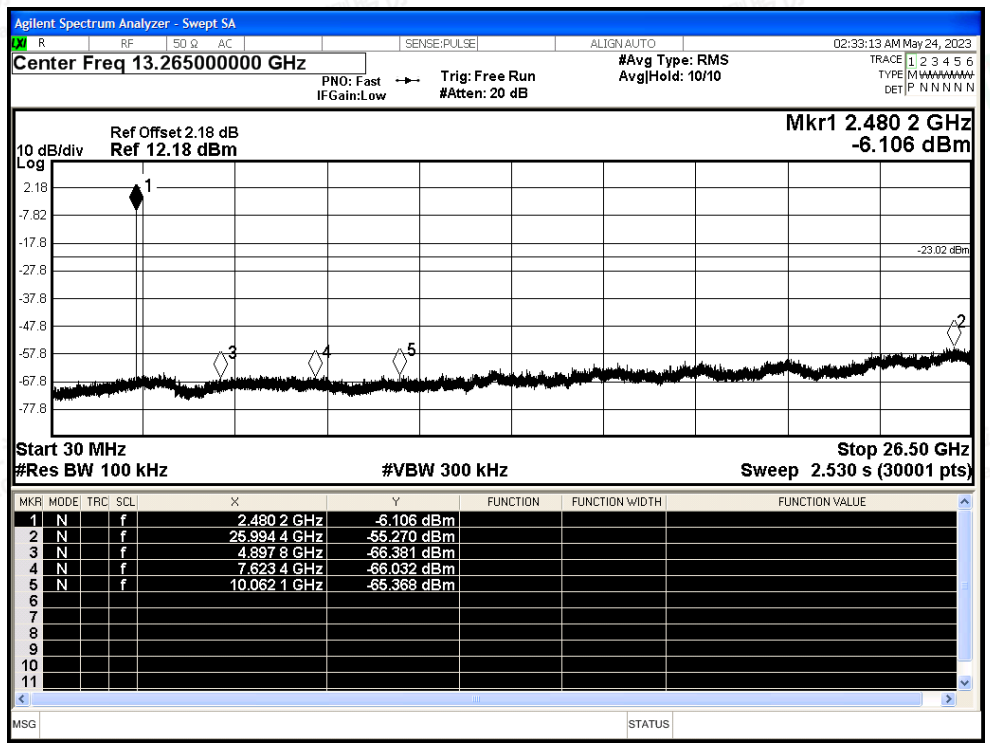




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

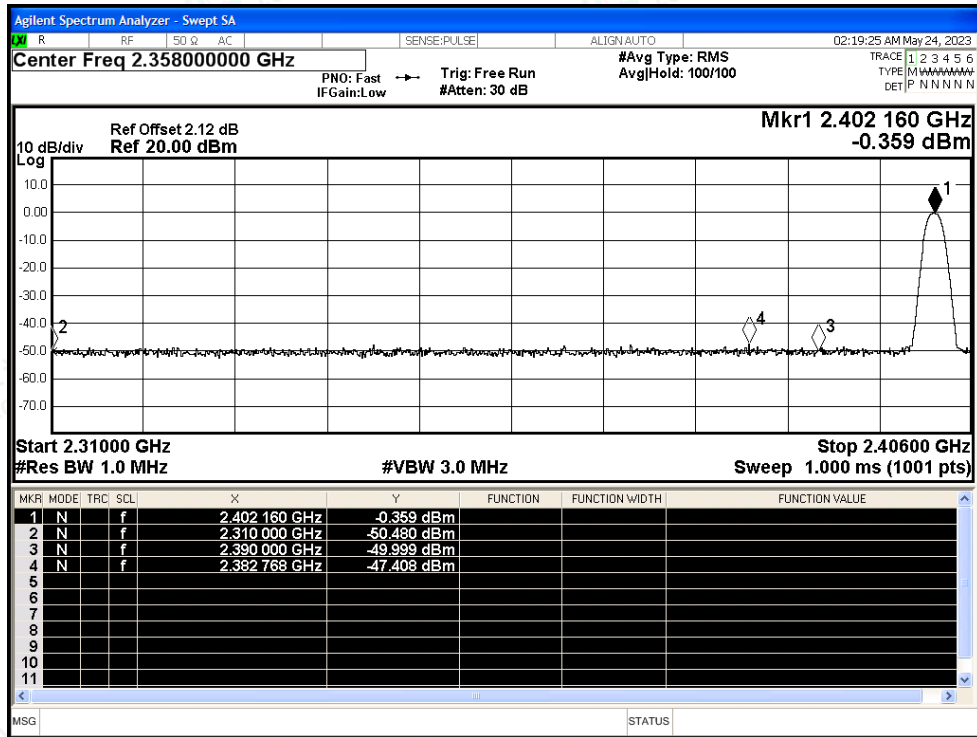
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.48	3.0	47.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.02	3.0	40.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.768	-47.41	3.0	50.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.896	-57.49	3.0	40.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50	3.0	48.26	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.63	3.0	40.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.26	3.0	47.00	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.04	3.0	42.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.544	-47.11	3.0	51.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.04	3.0	42.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.16	3.0	49.10	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.37	3.0	40.89	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.25	3.0	48.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.06	3.0	40.20	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2371.728	-47.36	3.0	50.90	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.808	-57.53	3.0	40.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.64	3.0	48.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.59	3.0	40.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.18	3.0	48.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.14	3.0	42.12	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2487.568	-46.69	3.0	51.57	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-56.14	3.0	42.12	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.06	3.0	49.20	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.43	3.0	40.83	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.05	3.0	46.21	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.94	3.0	40.32	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2320.656	-47.19	3.0	51.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.376	-57.42	3.0	40.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.11	3.0	47.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.58	3.0	40.68	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.08	3.0	48.18	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.9	3.0	42.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2492.896	-46.94	3.0	51.32	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.9	3.0	42.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.24	3.0	49.02	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.16	3.0	41.10	Average	54	Pass



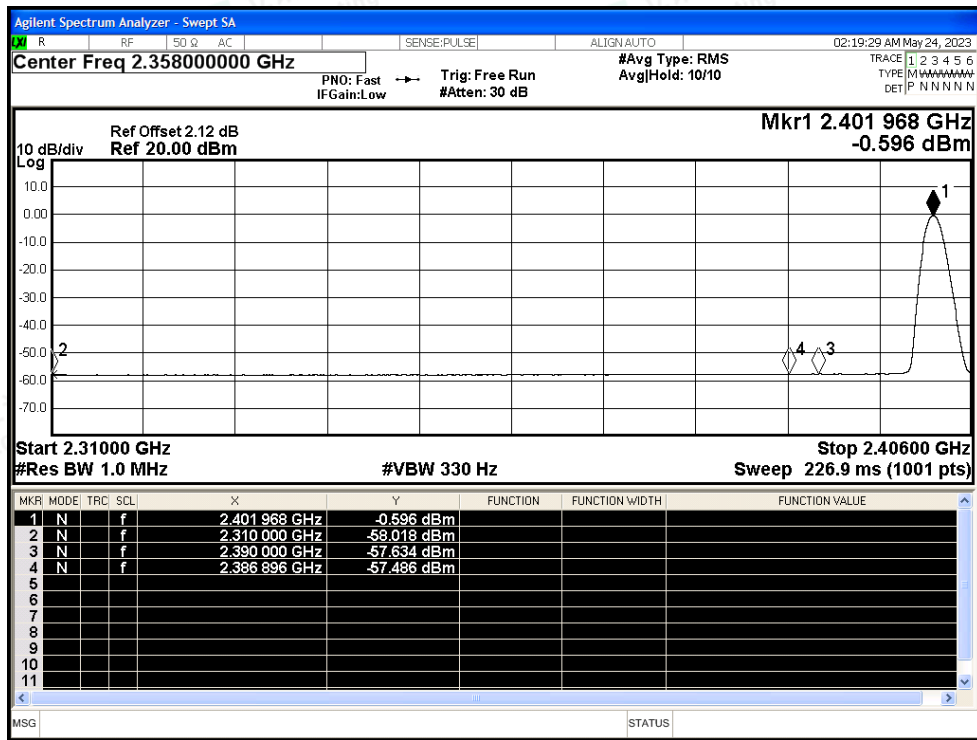


Test Graphs

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

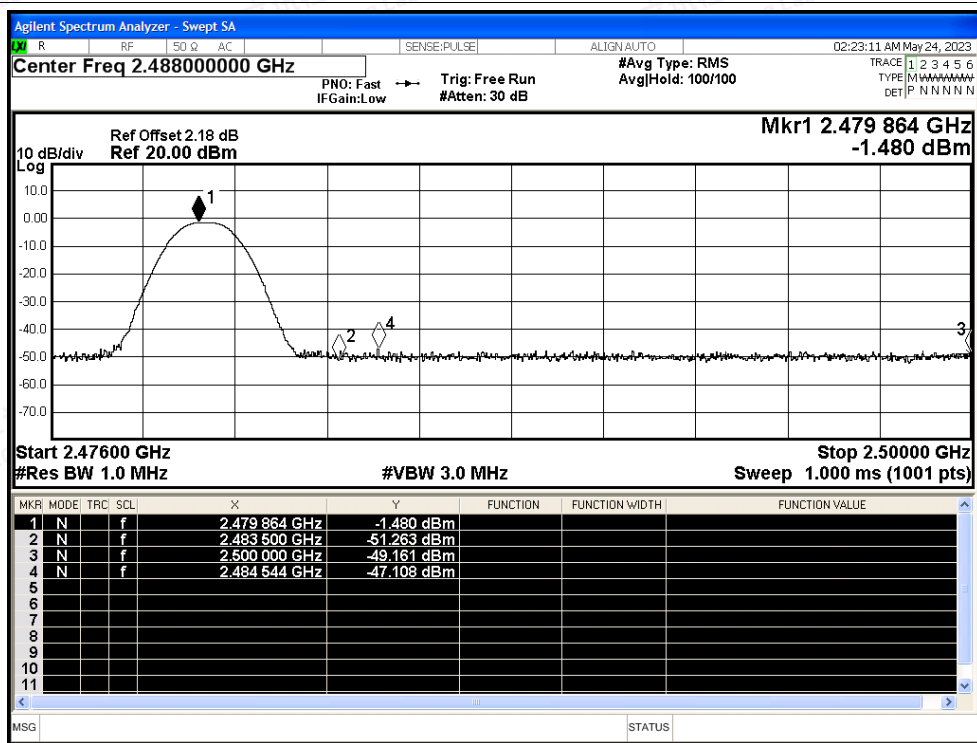


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

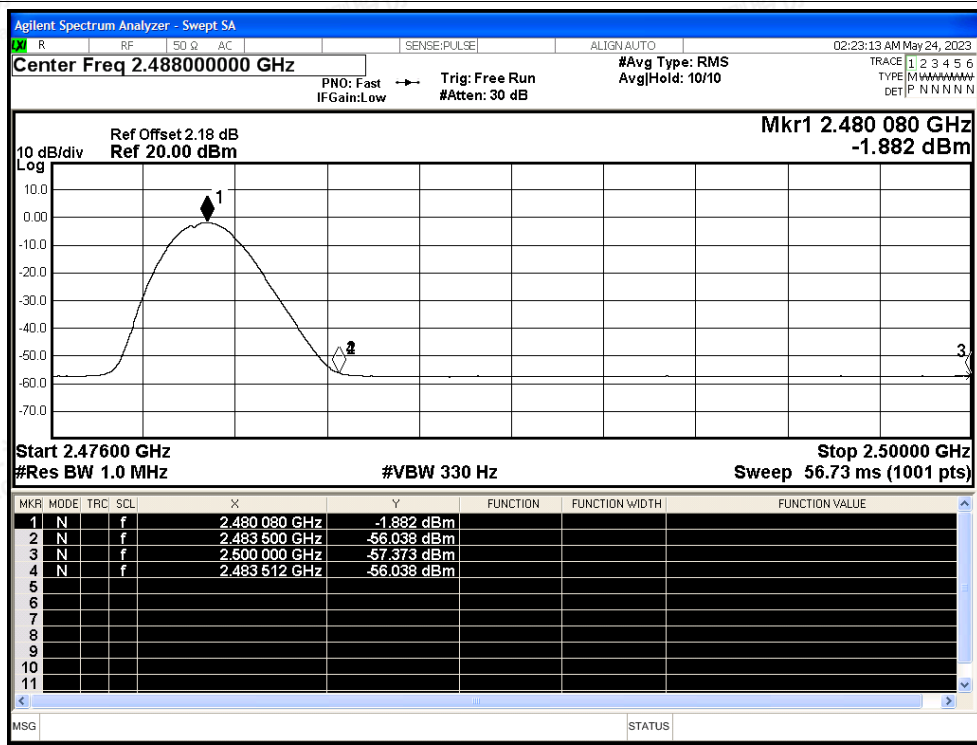




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

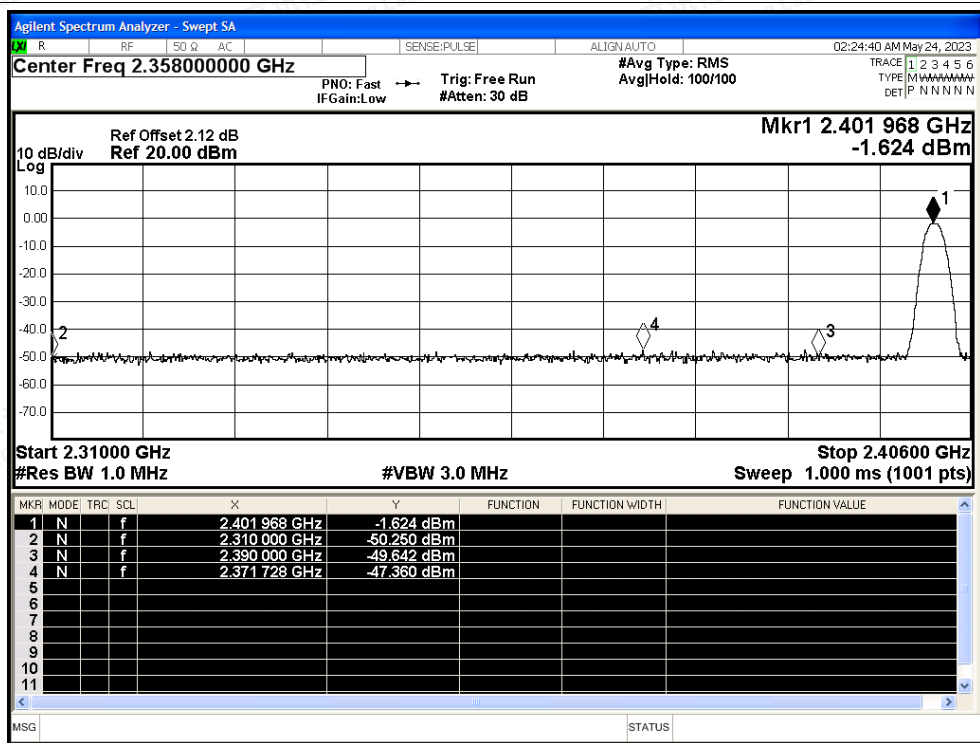


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

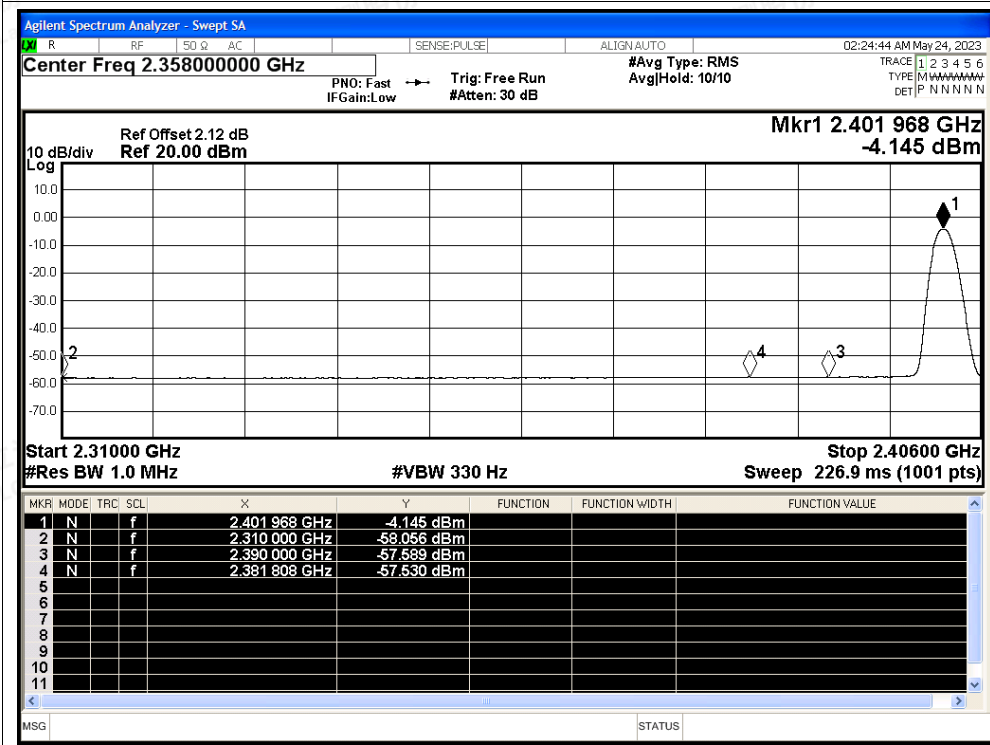




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

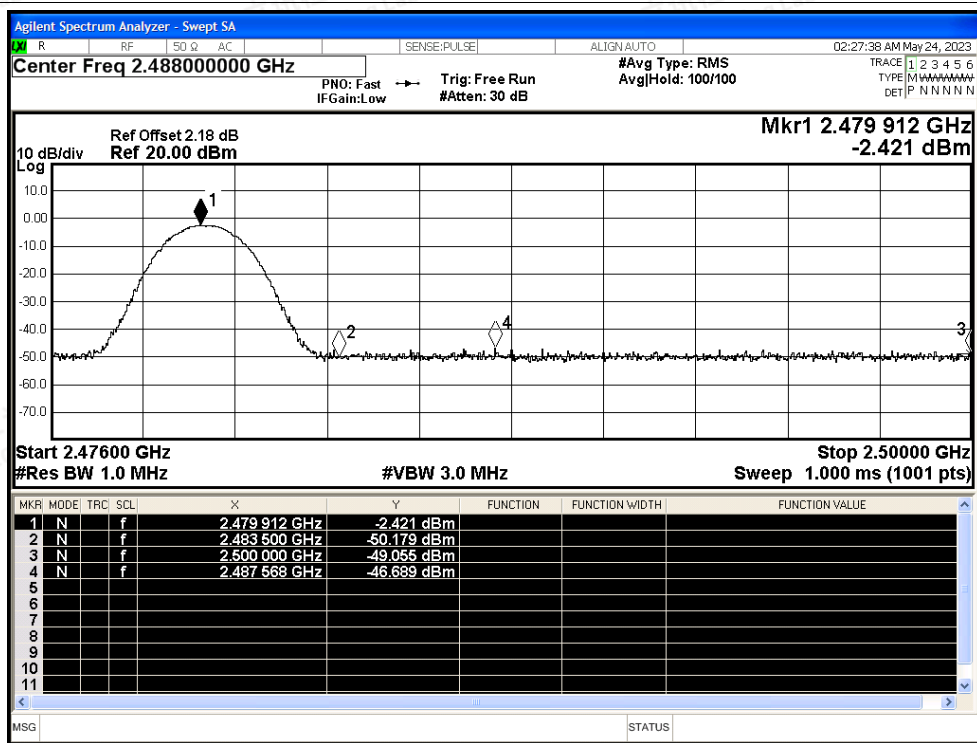


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

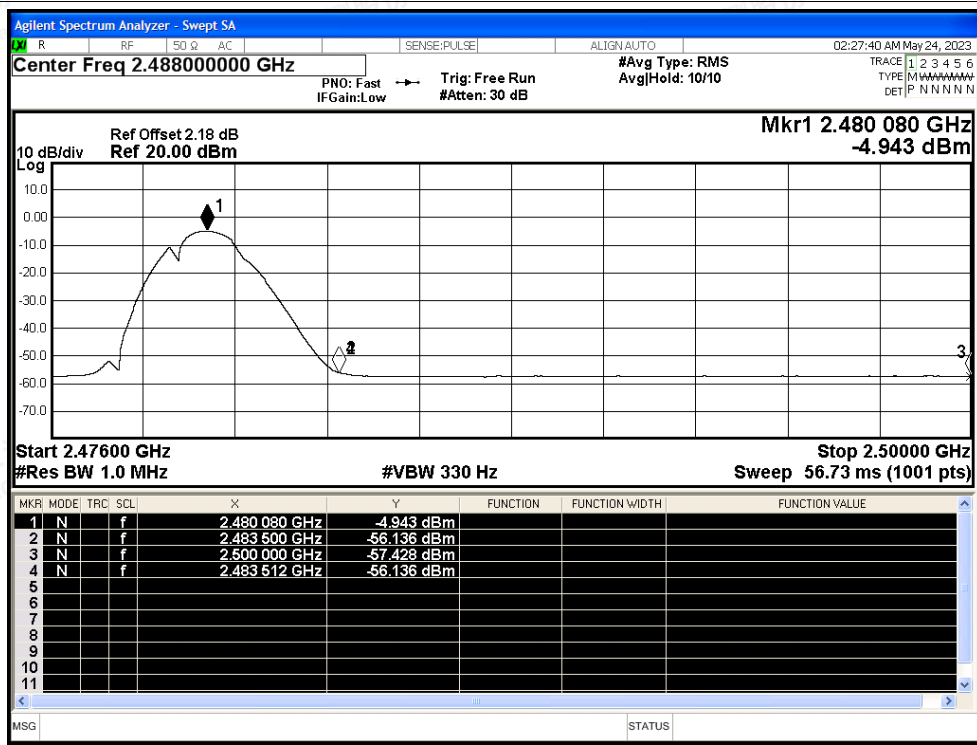




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

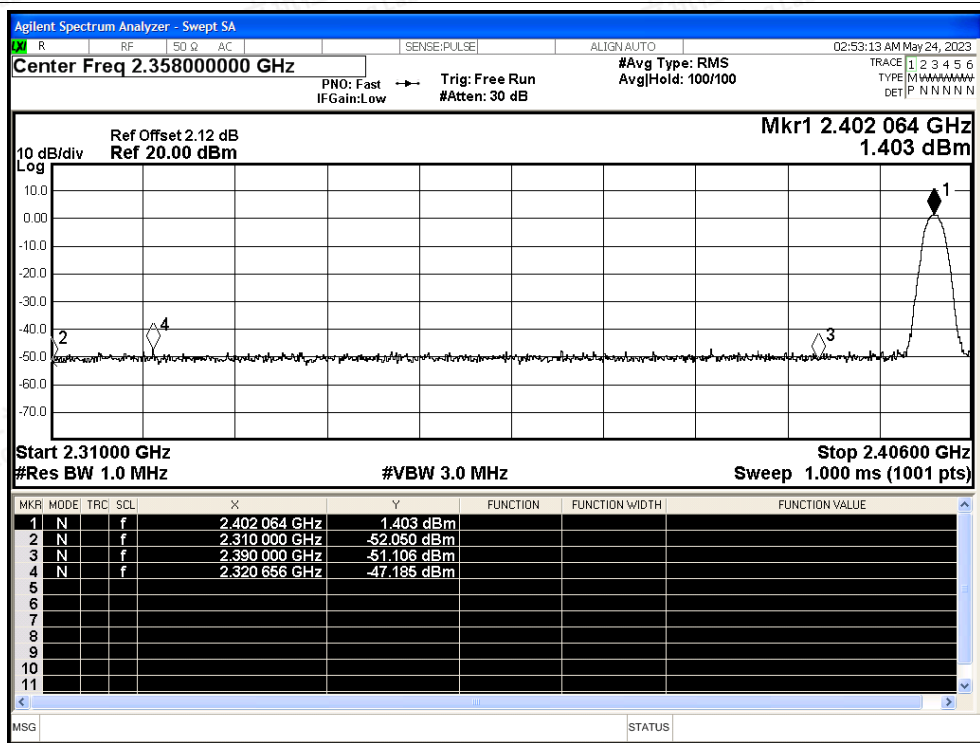


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

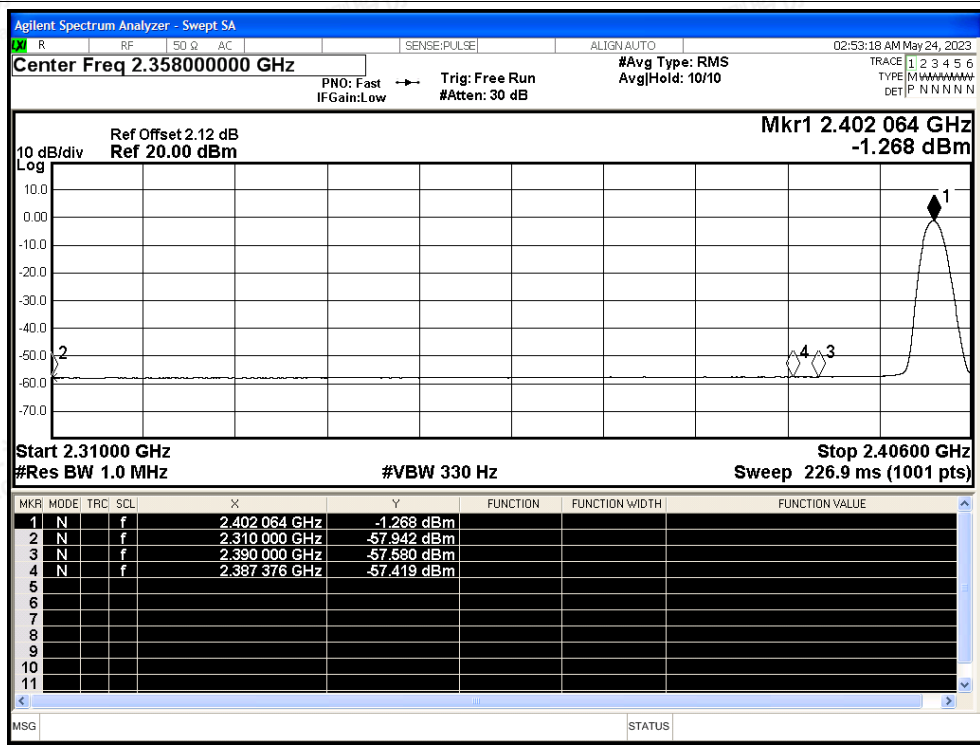




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

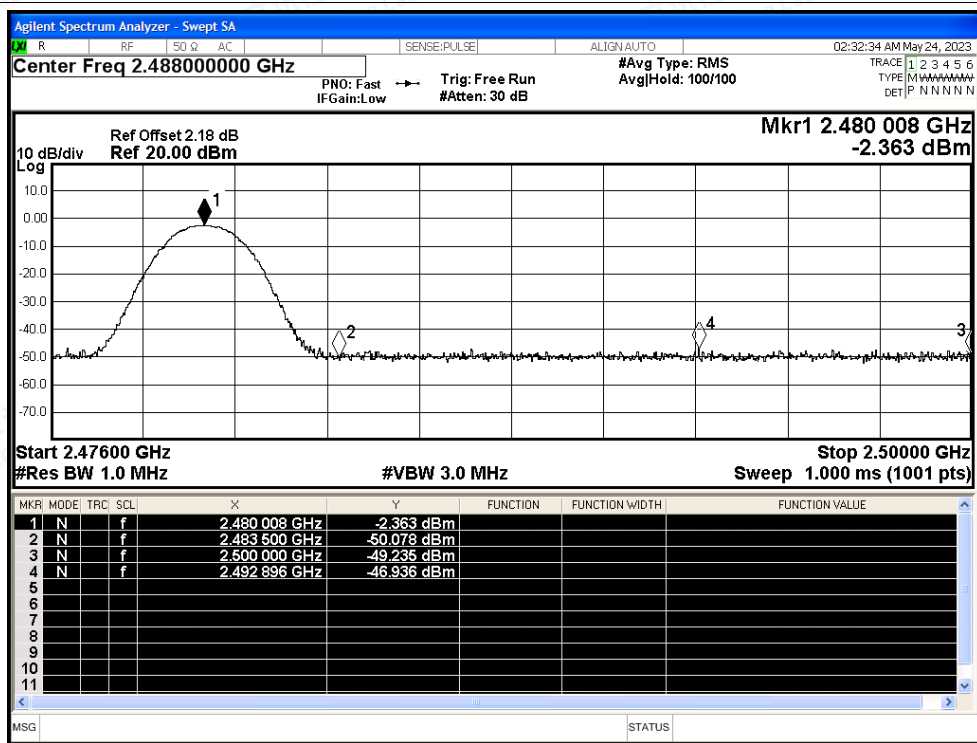


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

