



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Fuse Audio GLD

Test Model:Rad-GLD-Gd

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.003	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.277	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.289	N/A	Pass



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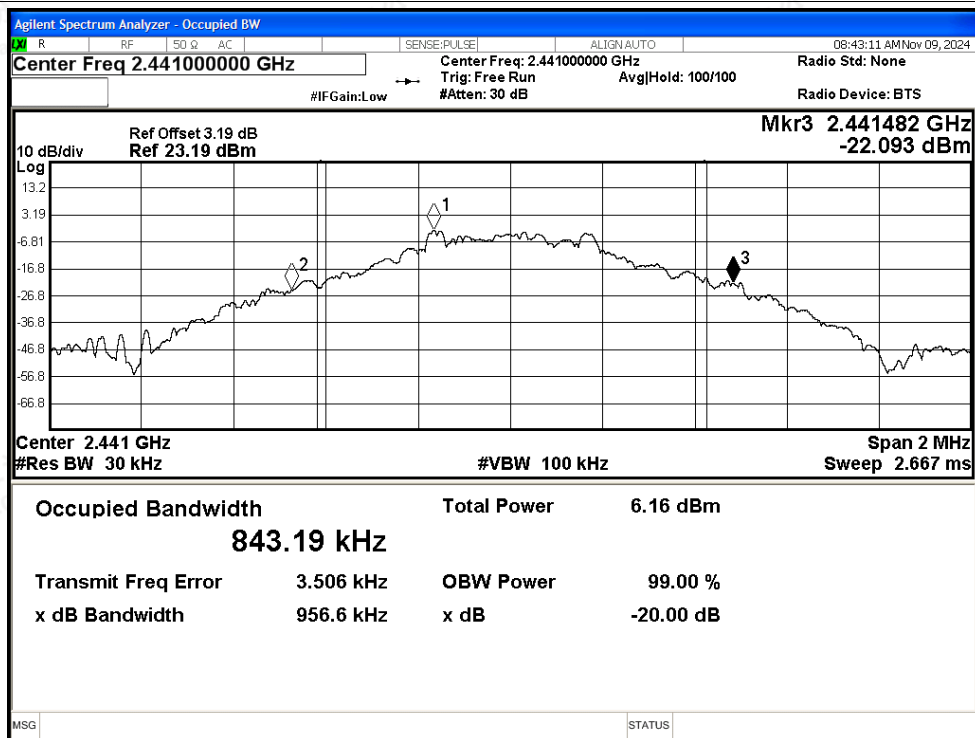


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

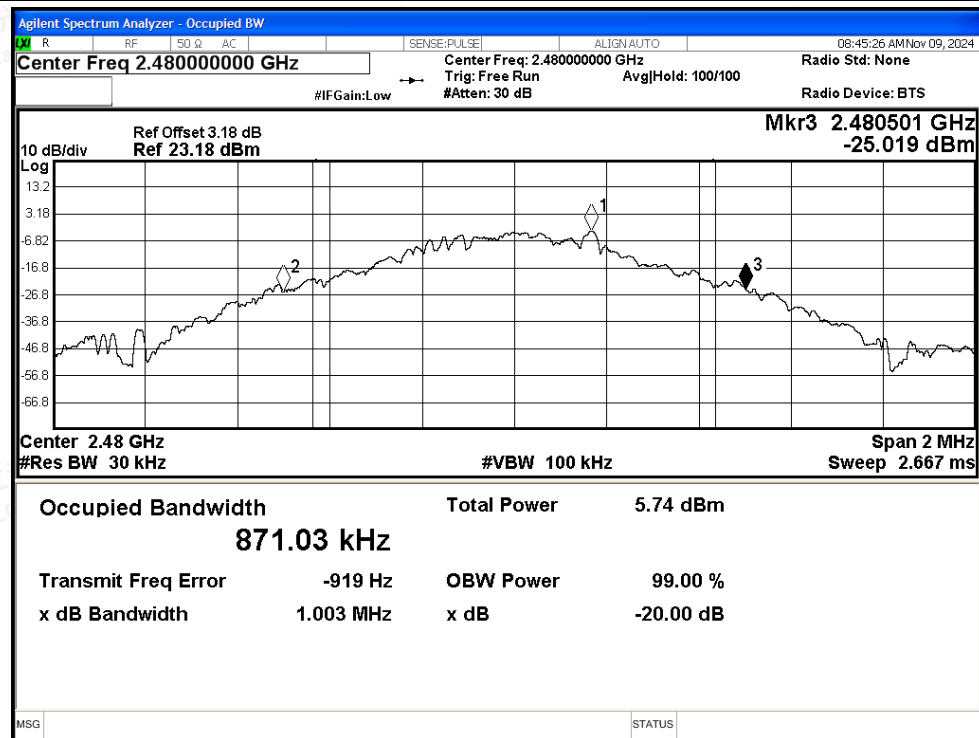


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

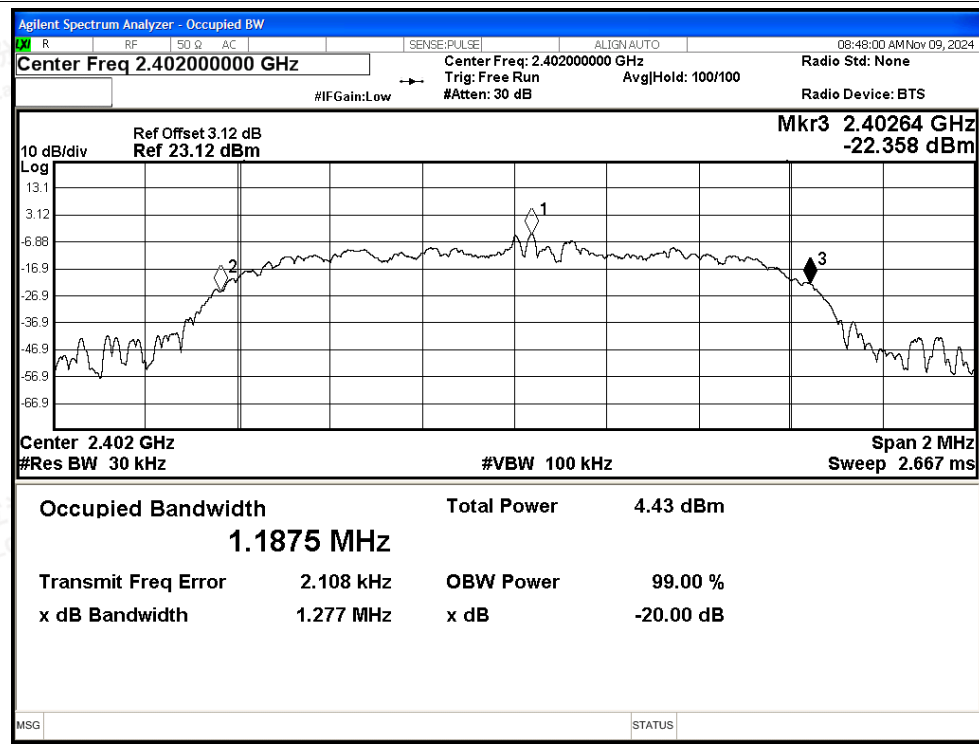




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

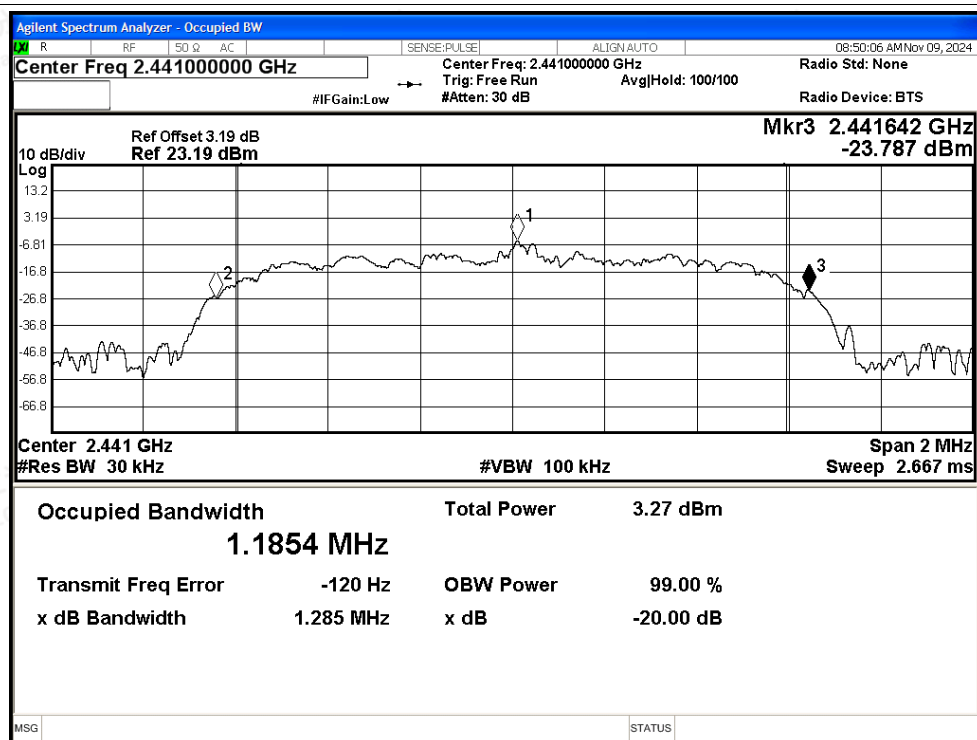


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

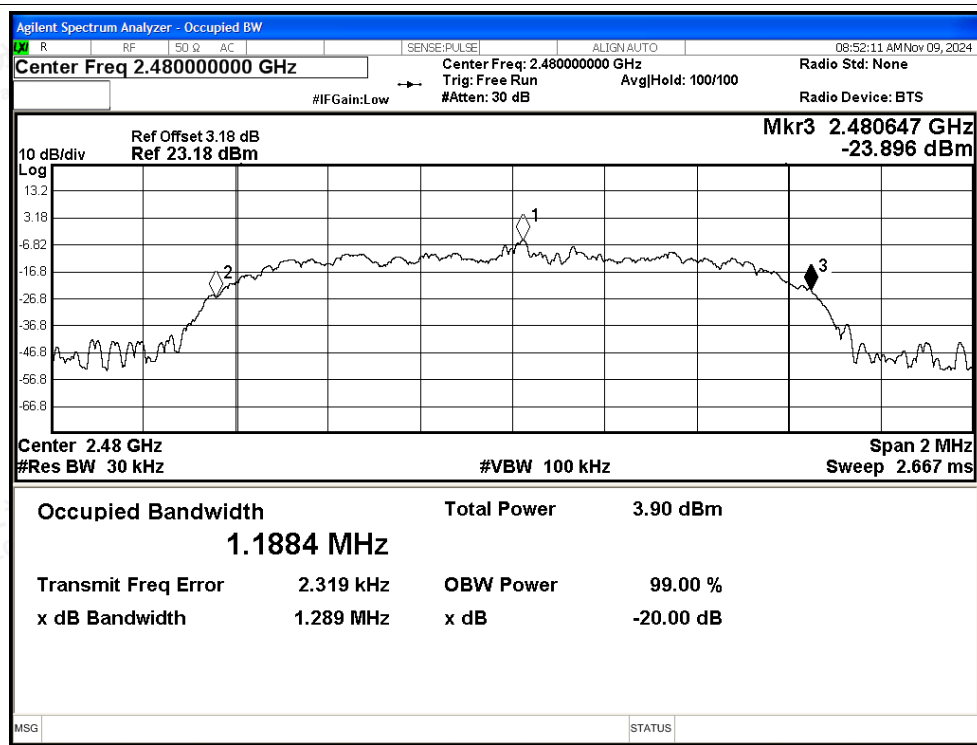




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.08	21	Pass
NVNT	1-DH5	2441	Ant1	-0.77	21	Pass
NVNT	1-DH5	2480	Ant1	-0.51	21	Pass
NVNT	2-DH5	2402	Ant1	0.27	21	Pass
NVNT	2-DH5	2441	Ant1	-0.77	21	Pass
NVNT	2-DH5	2480	Ant1	-0.09	21	Pass

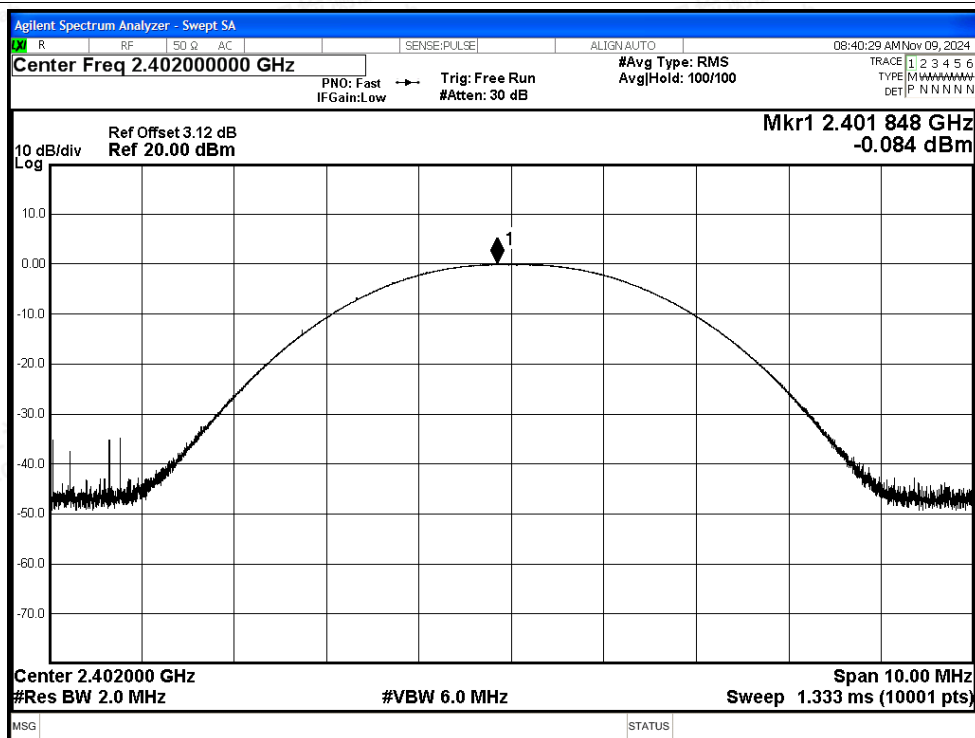


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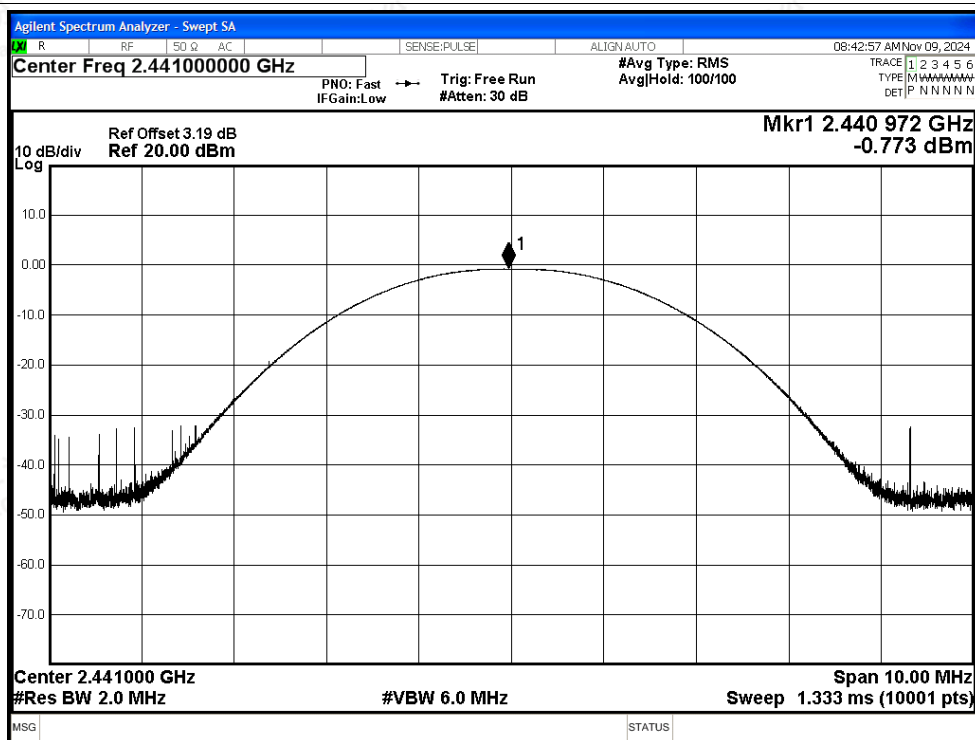


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

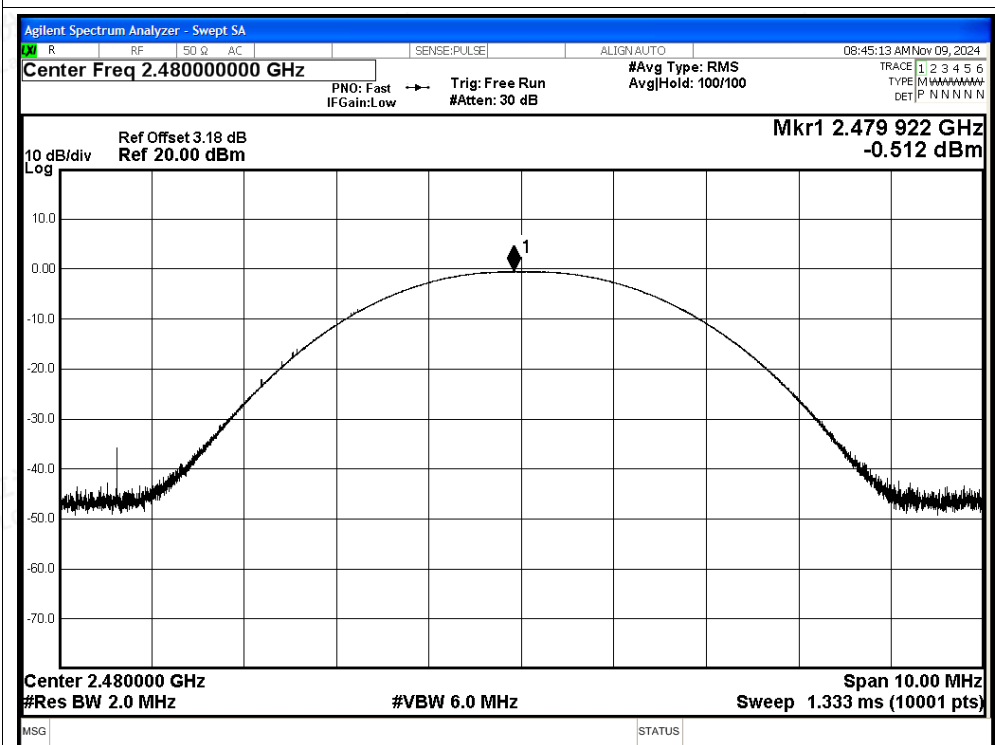


Power NVNT 1-DH5 2441MHz Ant1

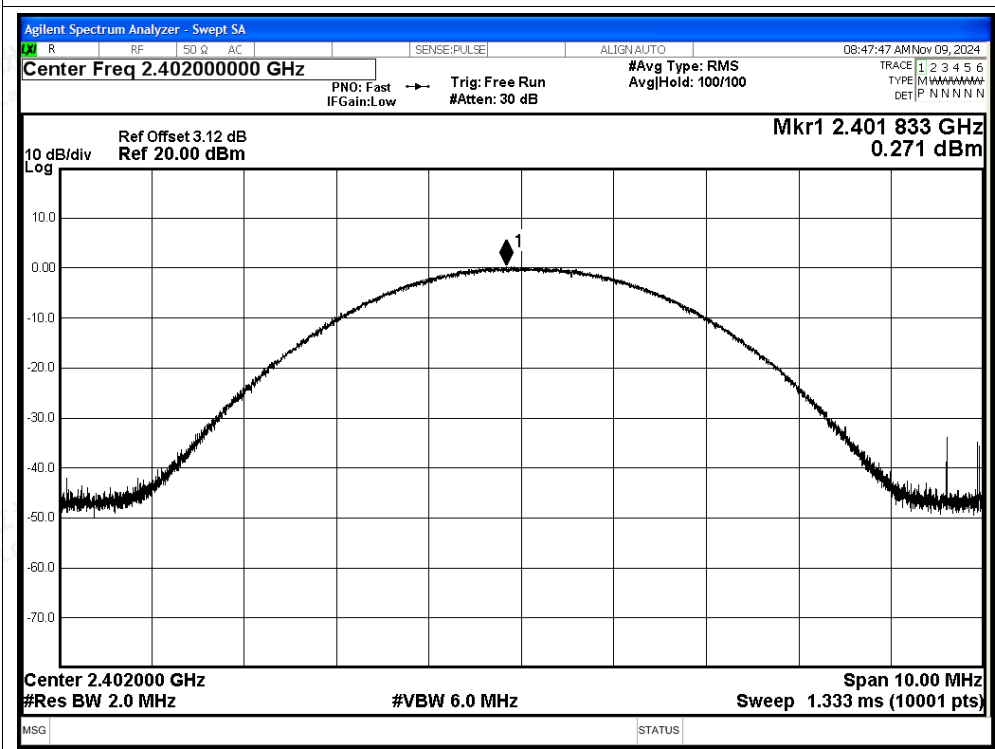




Power NVNT 1-DH5 2480MHz Ant1

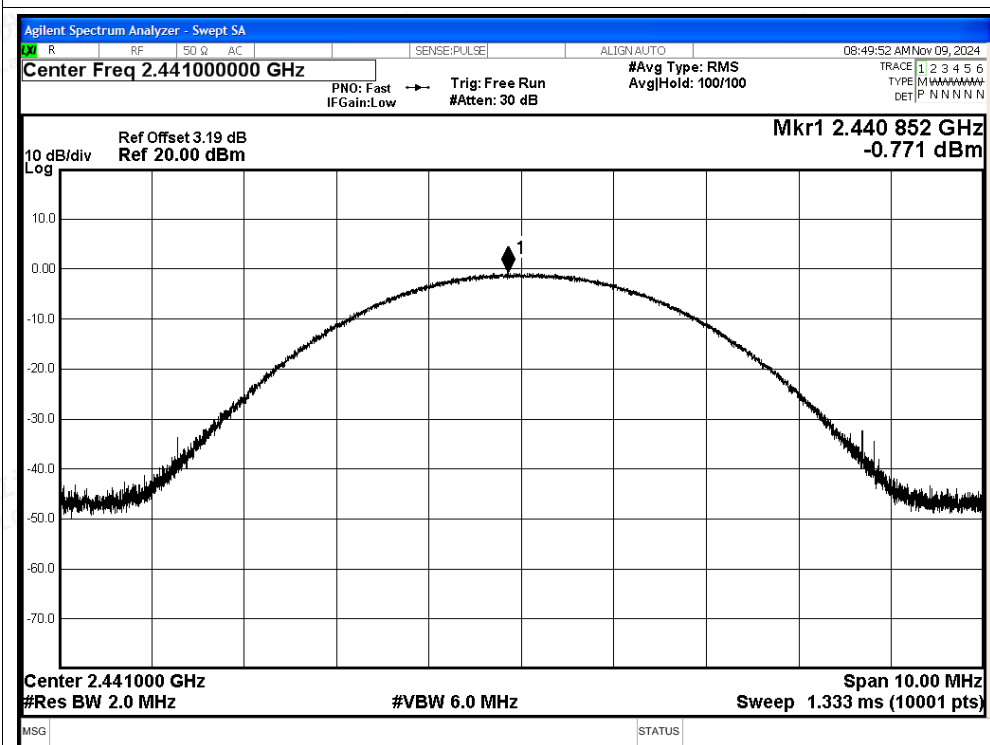


Power NVNT 2-DH5 2402MHz Ant1

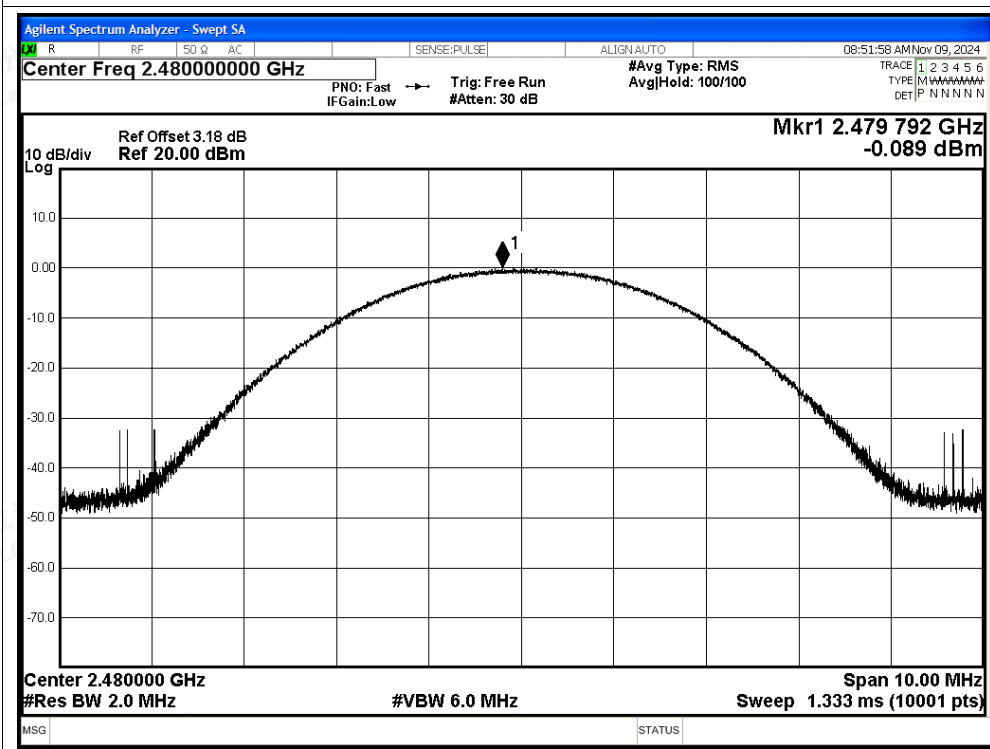




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.004	2402.838	0.834	0.669	Pass
NVNT	2-DH5	Ant1	2402.006	2403.034	1.028	0.859	Pass

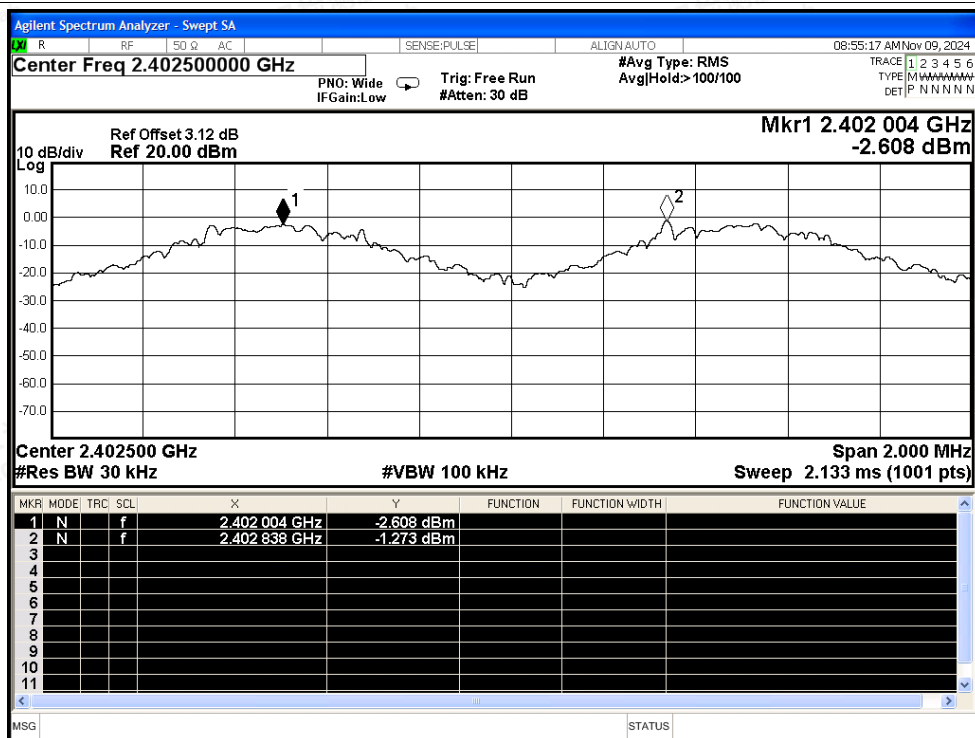


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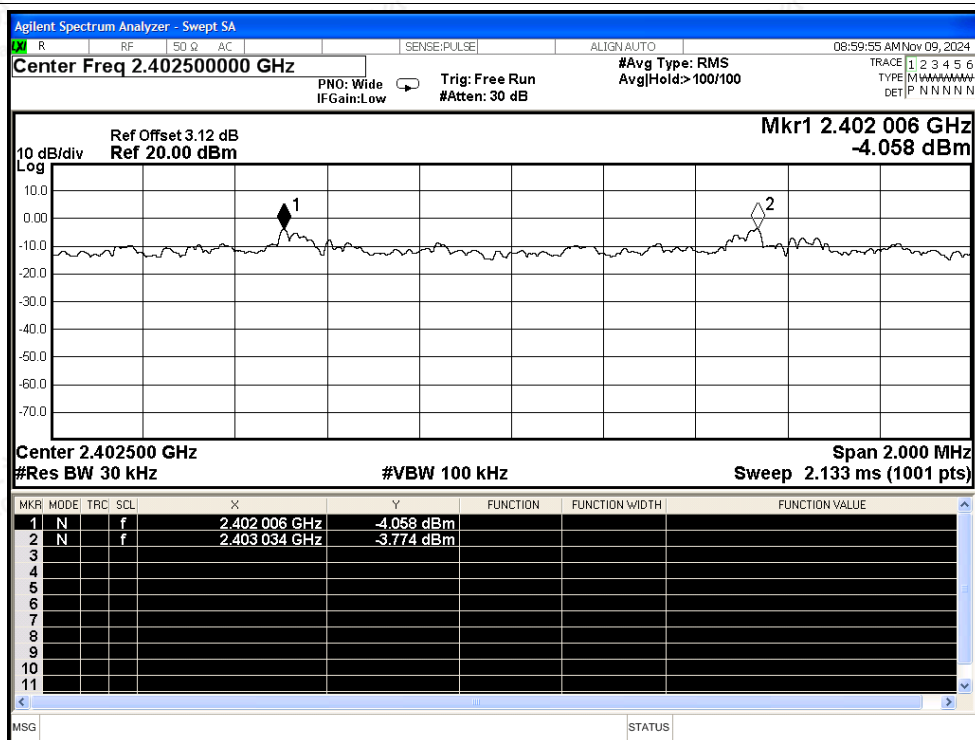


Test Graphs

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	2.91	328.83	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	307.188	106	31600	400	Pass

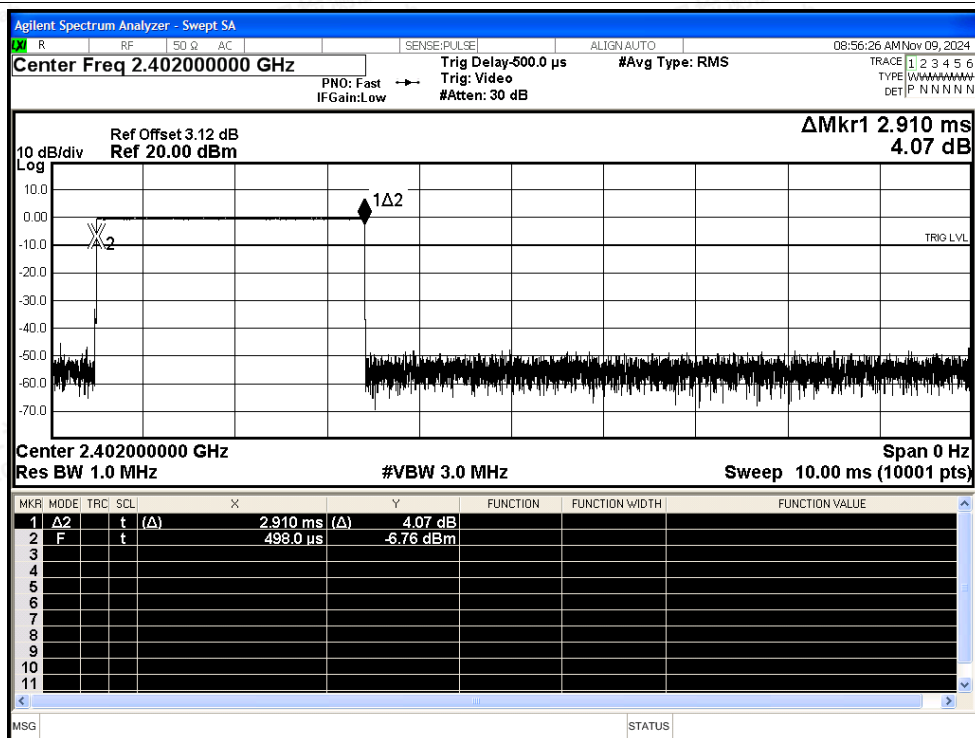


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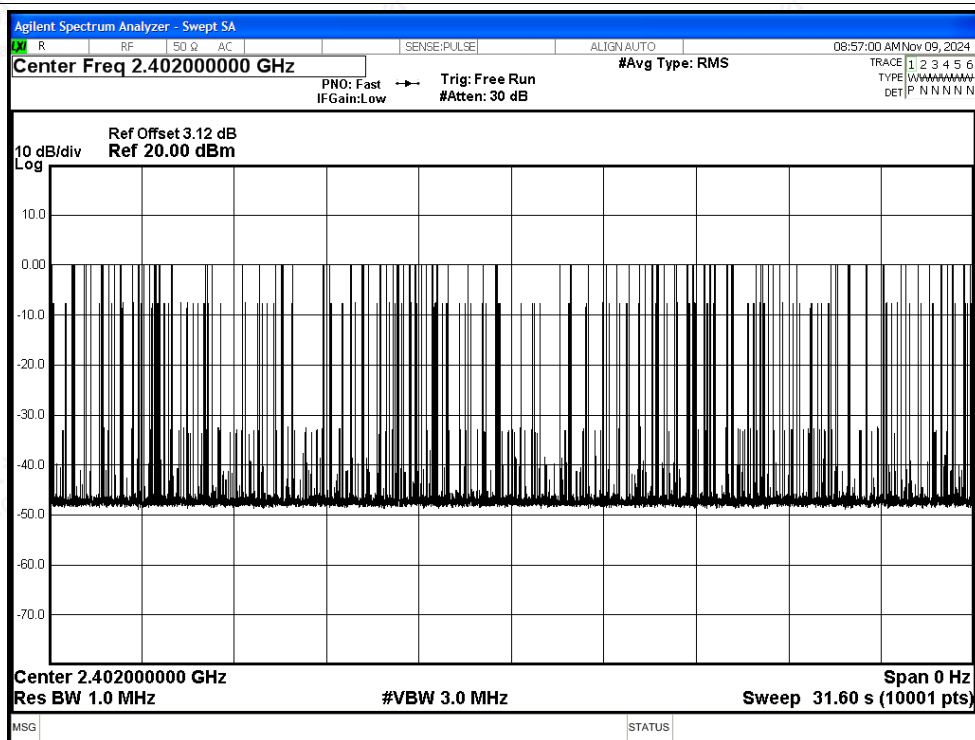


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

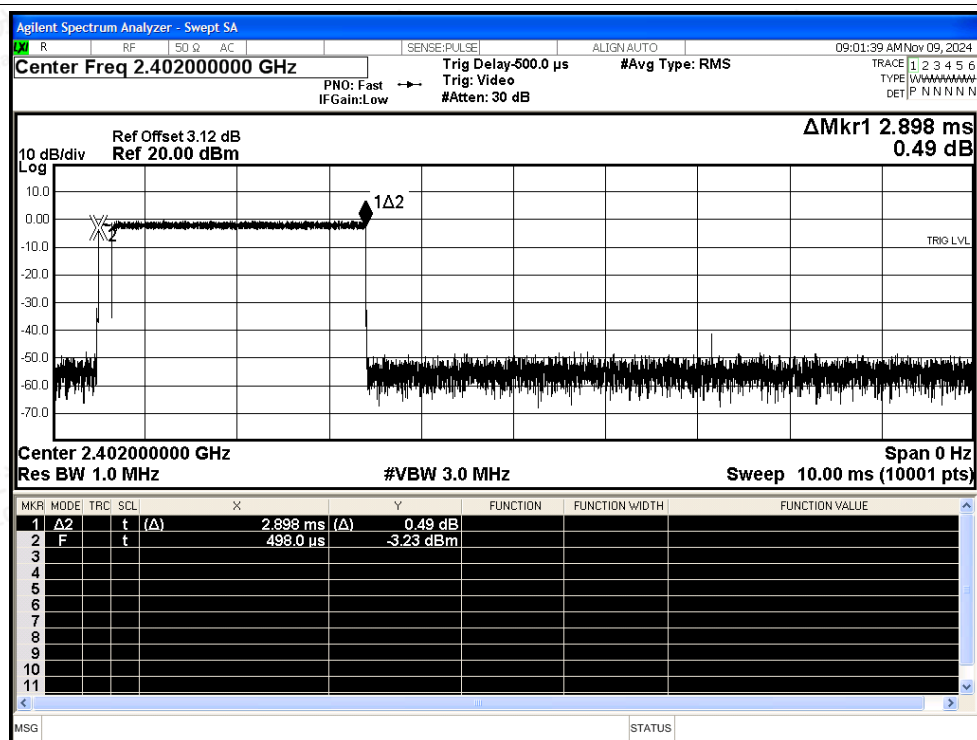


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

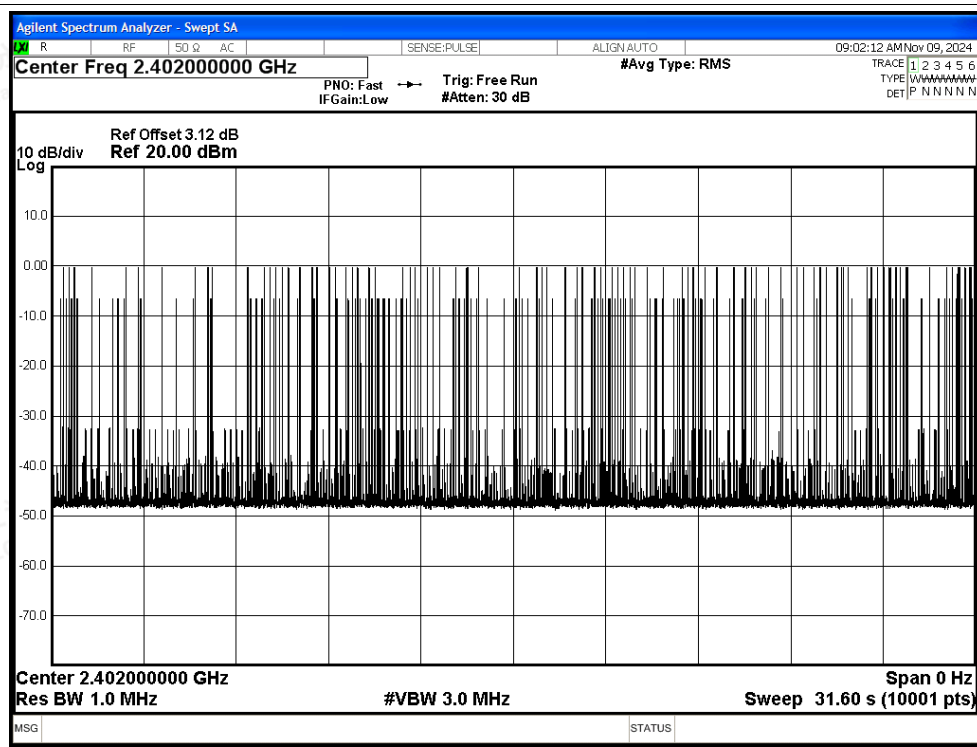




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

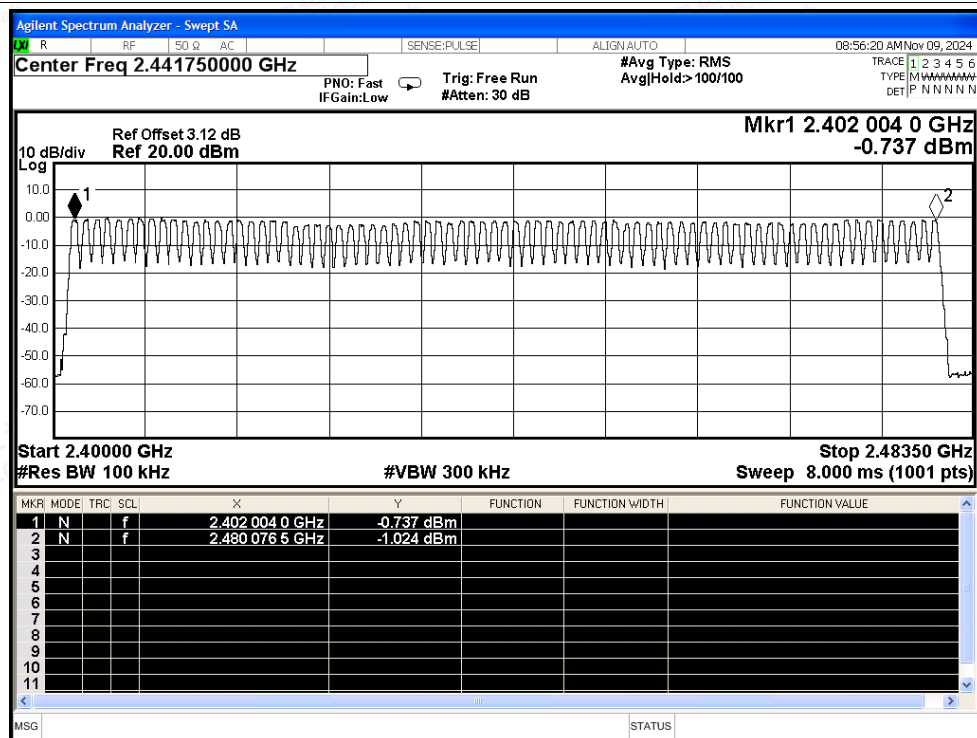


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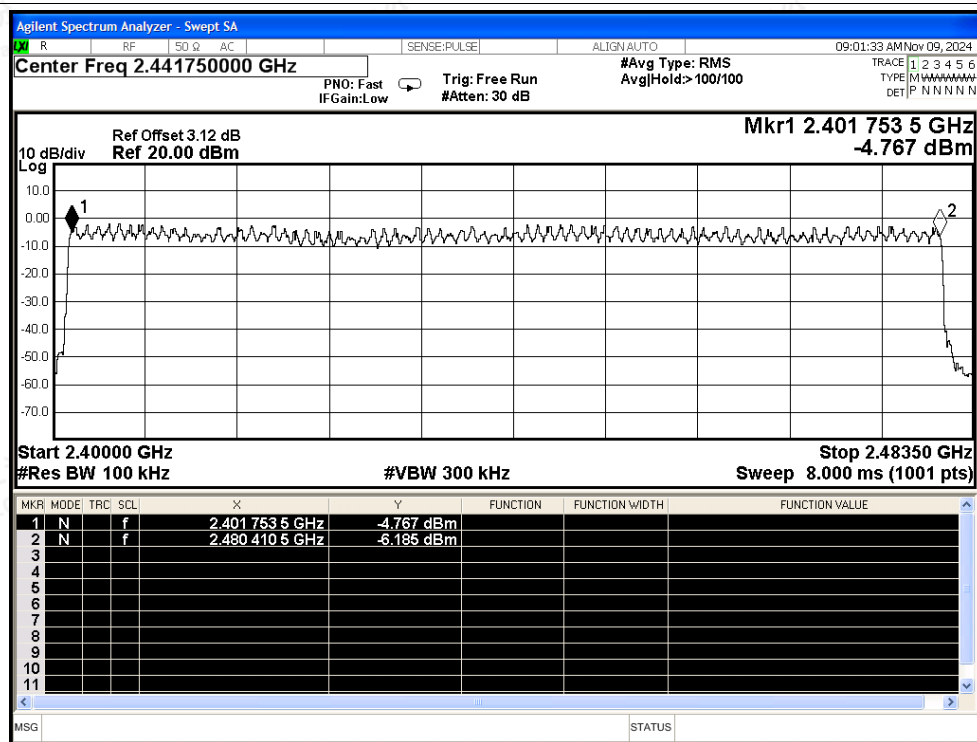


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.9	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.4	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.79	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.37	-20	Pass

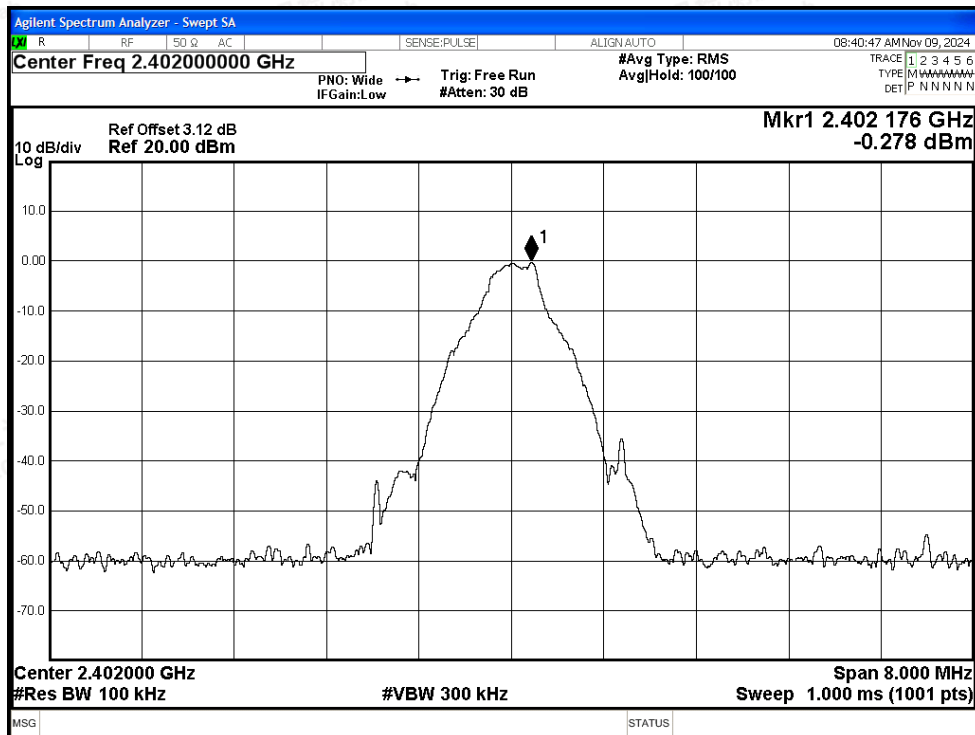


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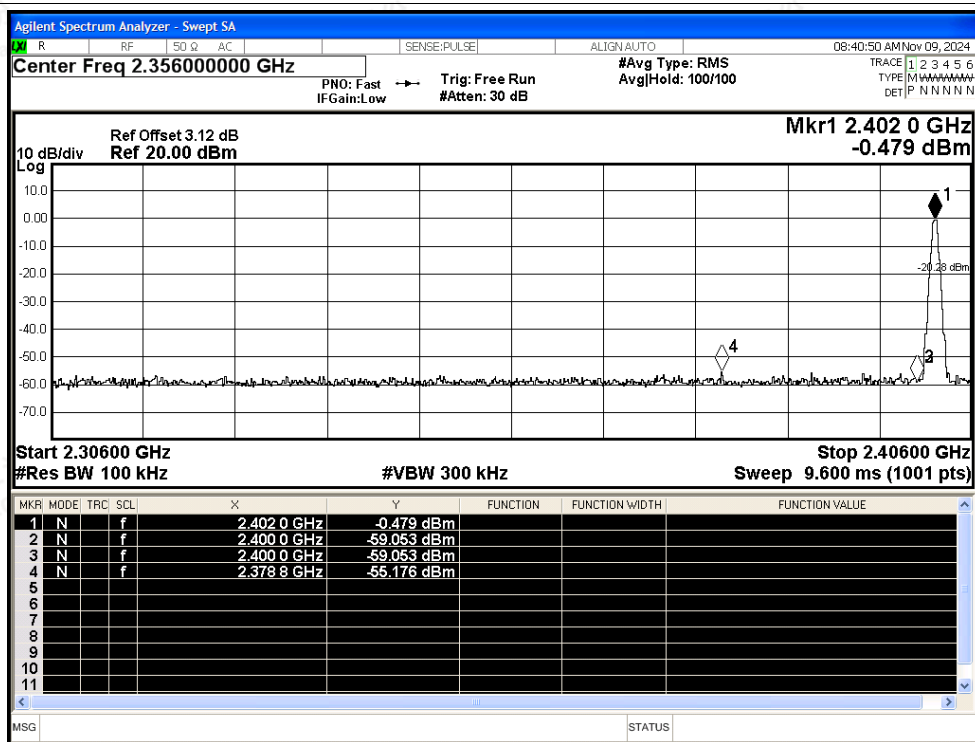


Test Graphs

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

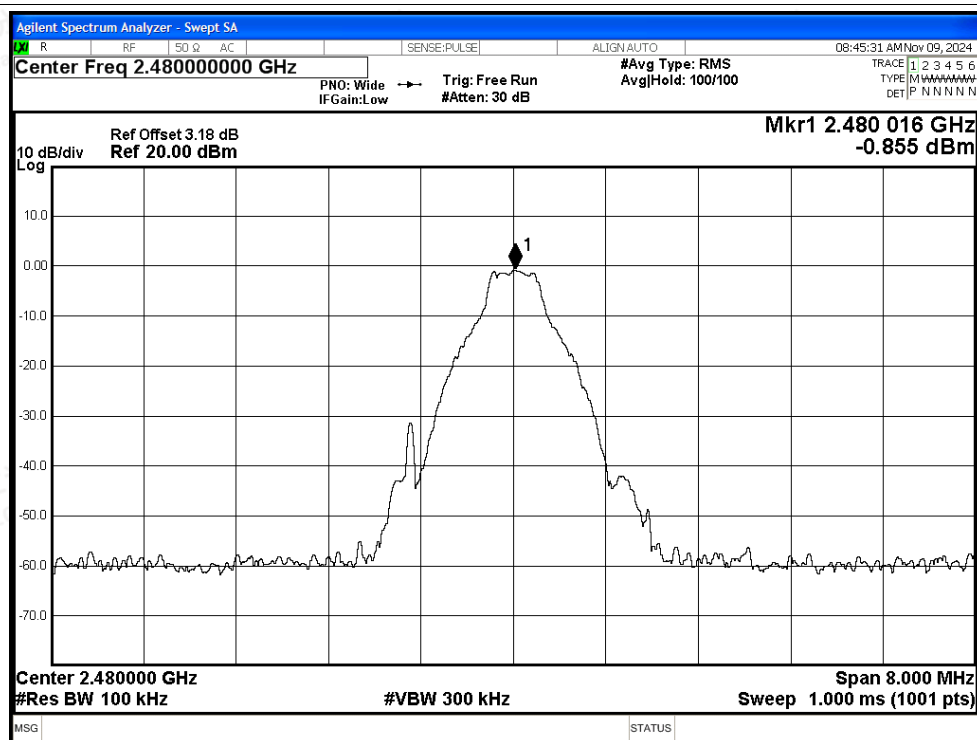


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

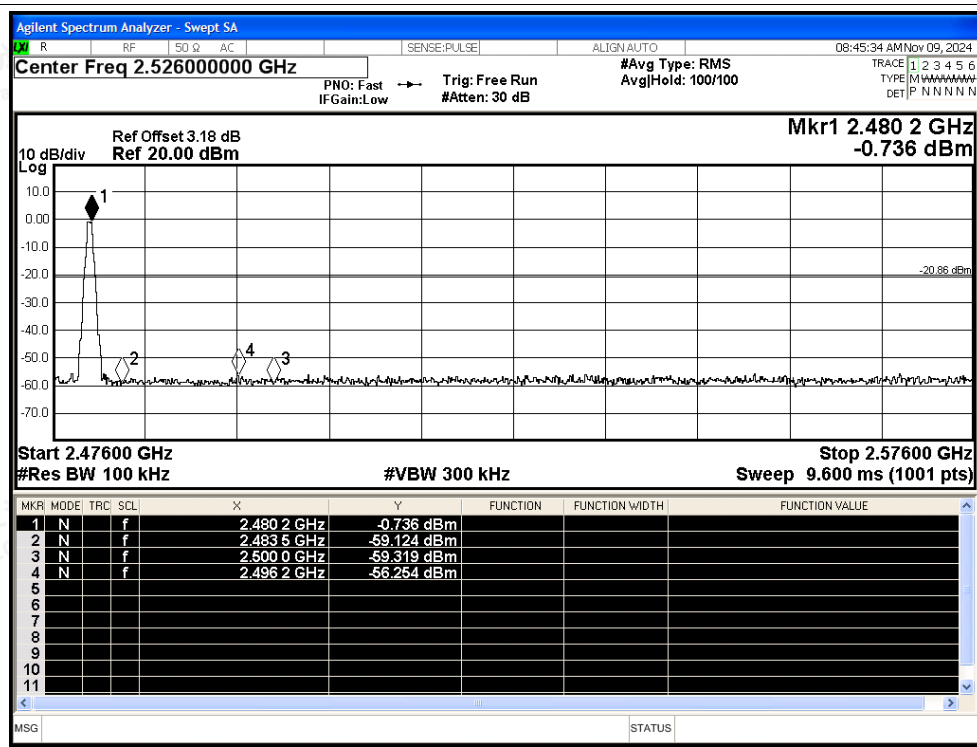




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

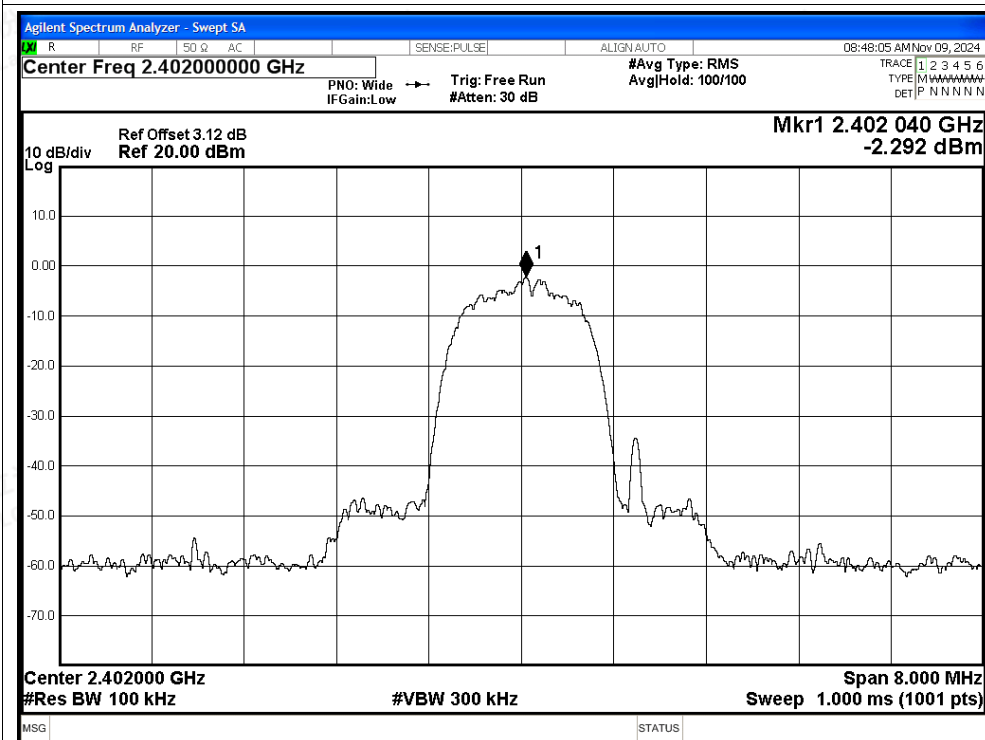


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

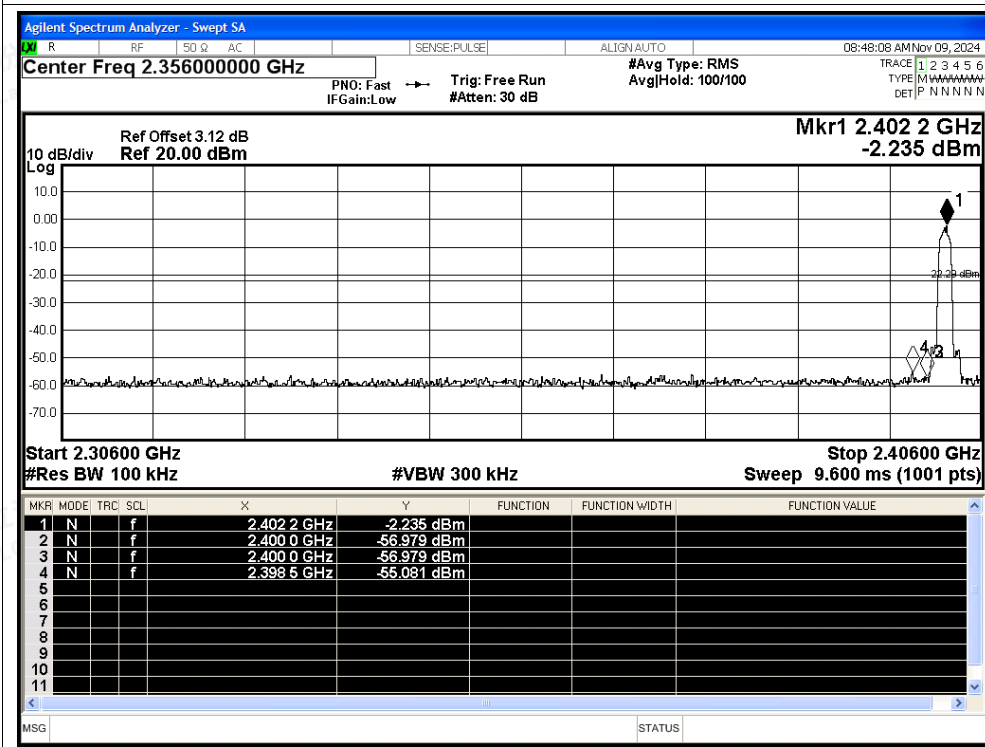




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

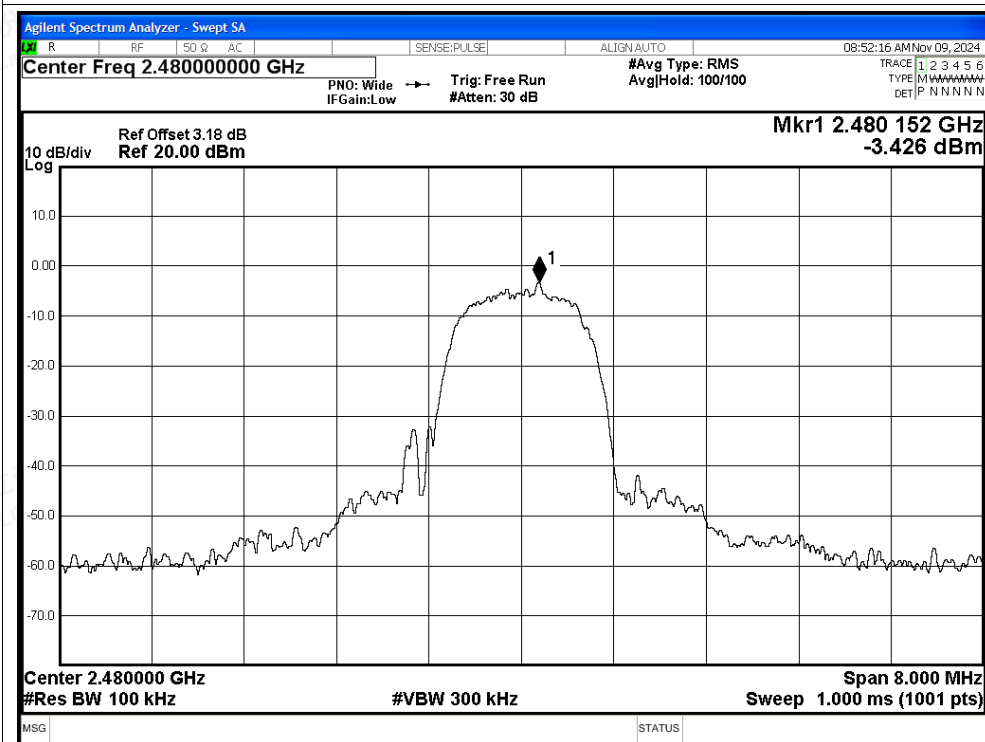


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

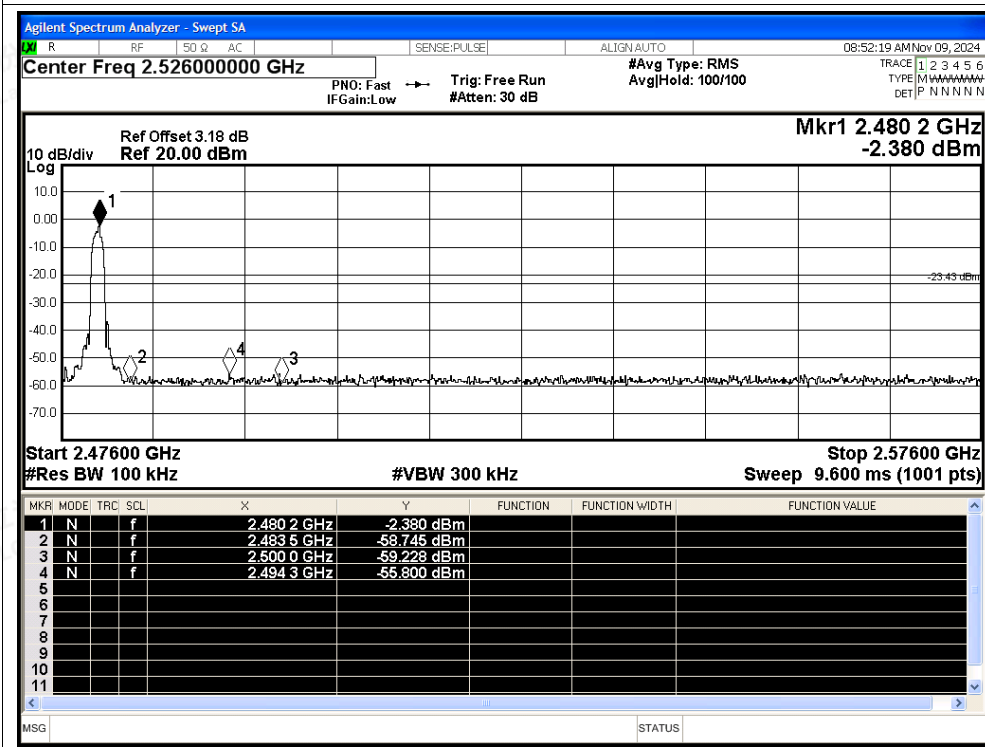




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.03	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.56	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.5	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.76	-20	Pass

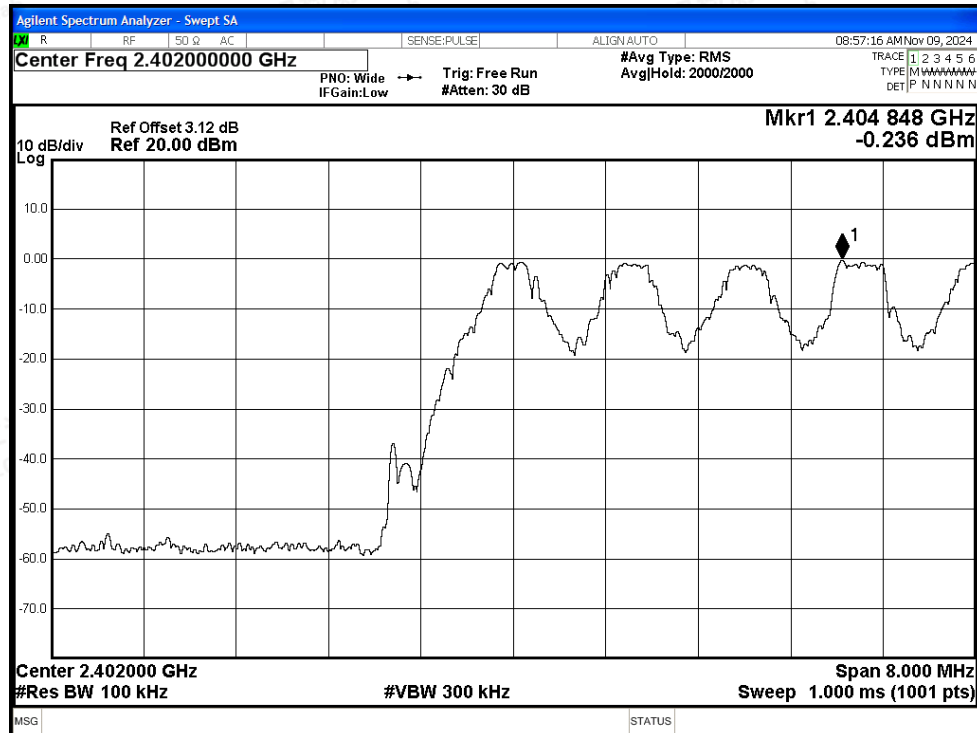


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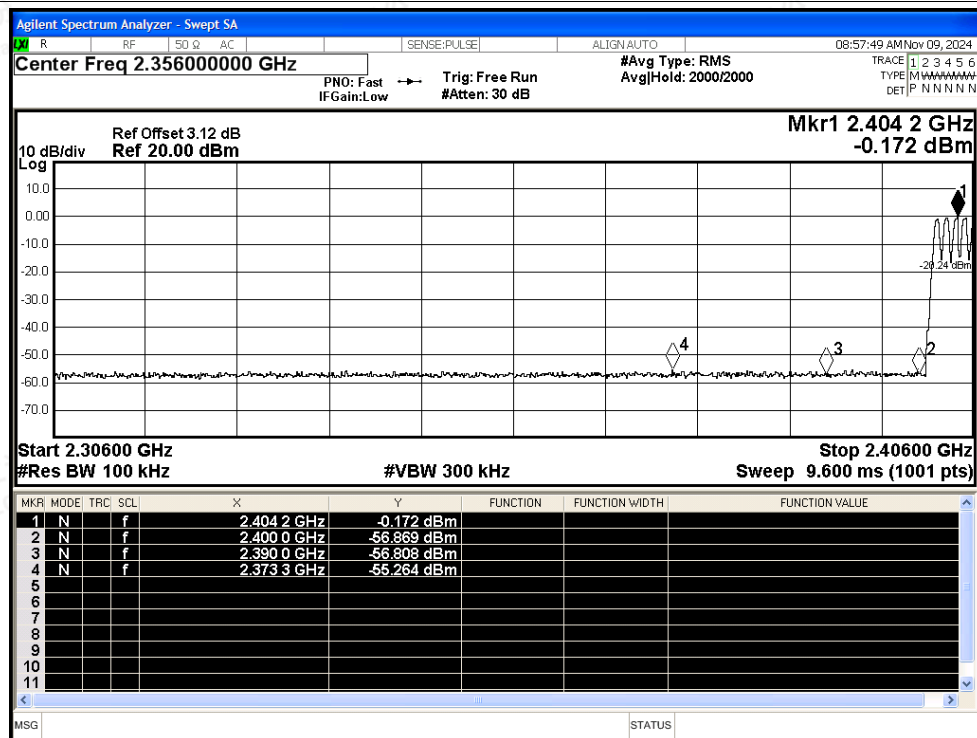


Test Graphs

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

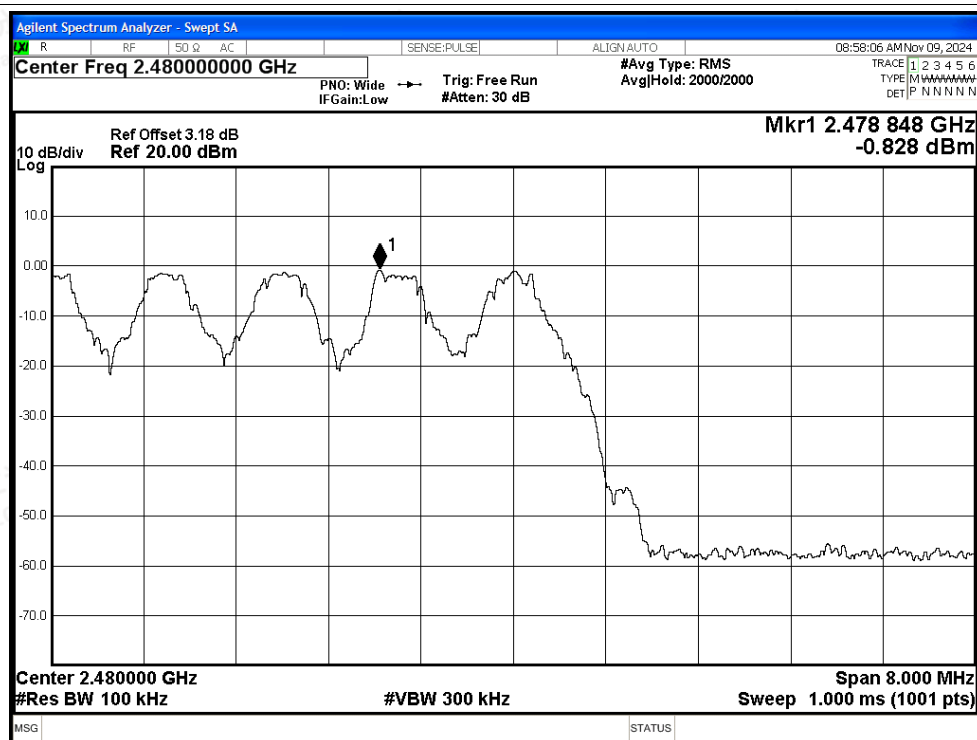


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

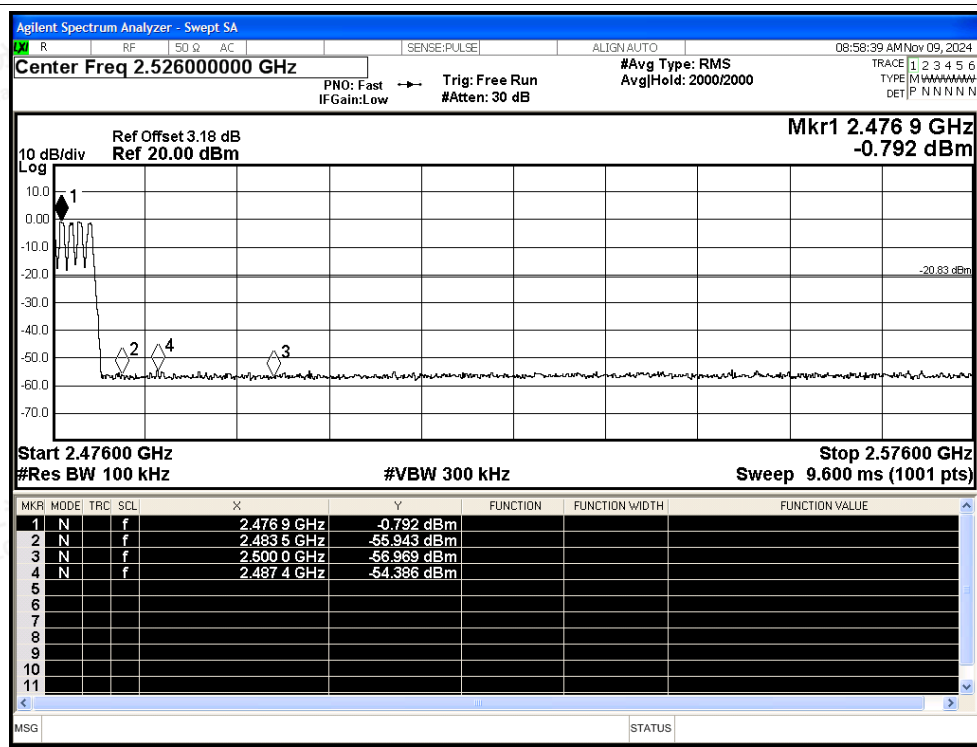




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

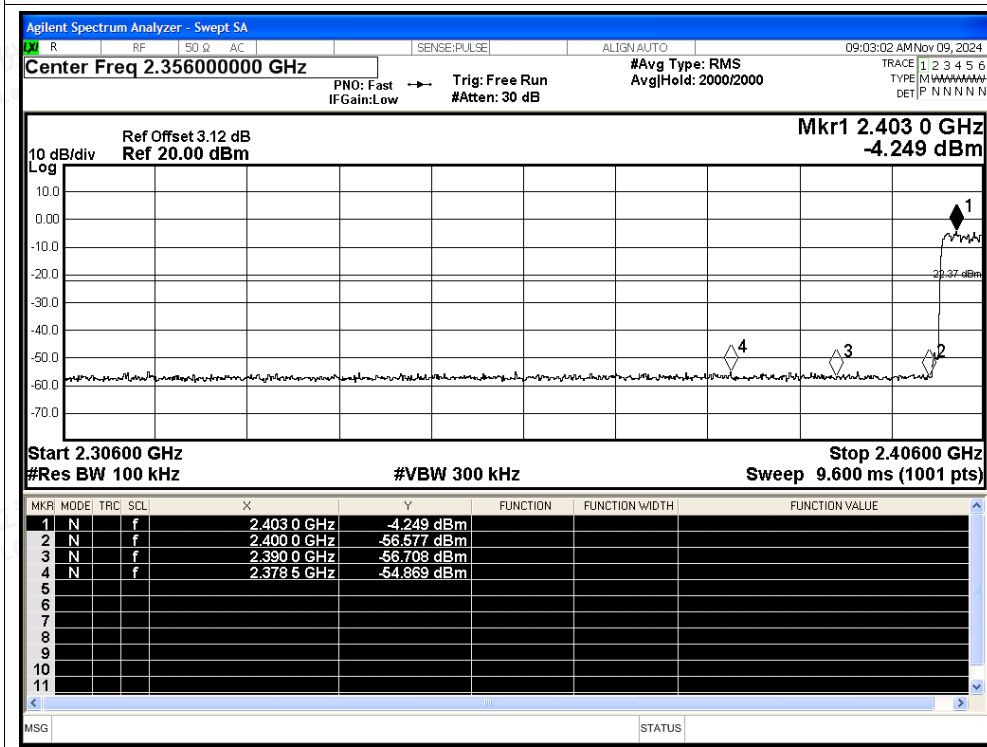




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

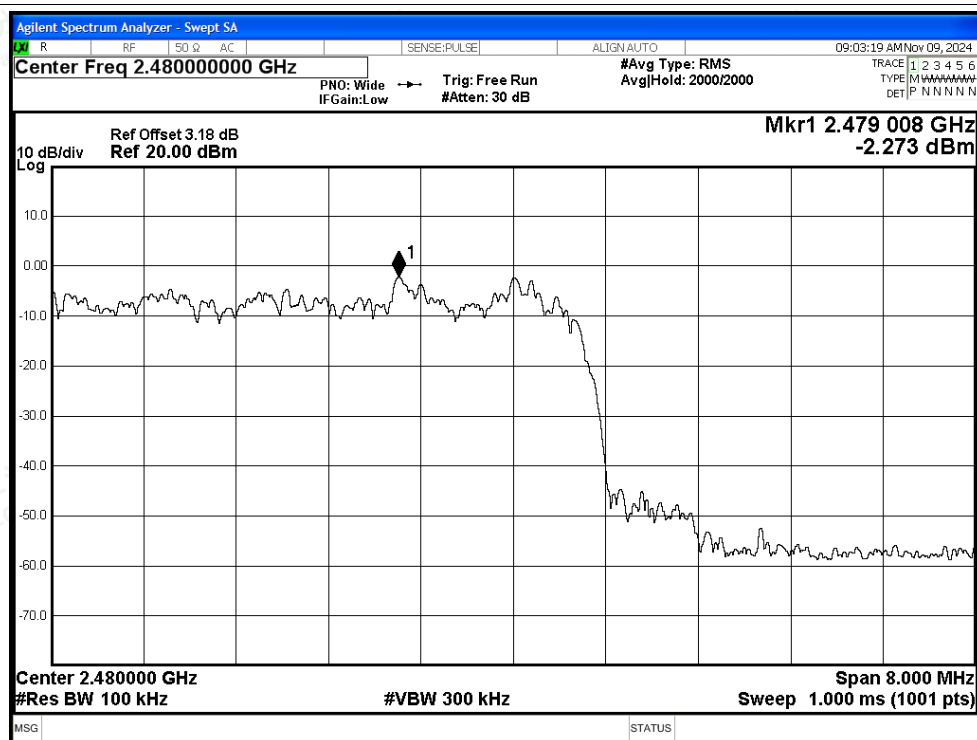


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

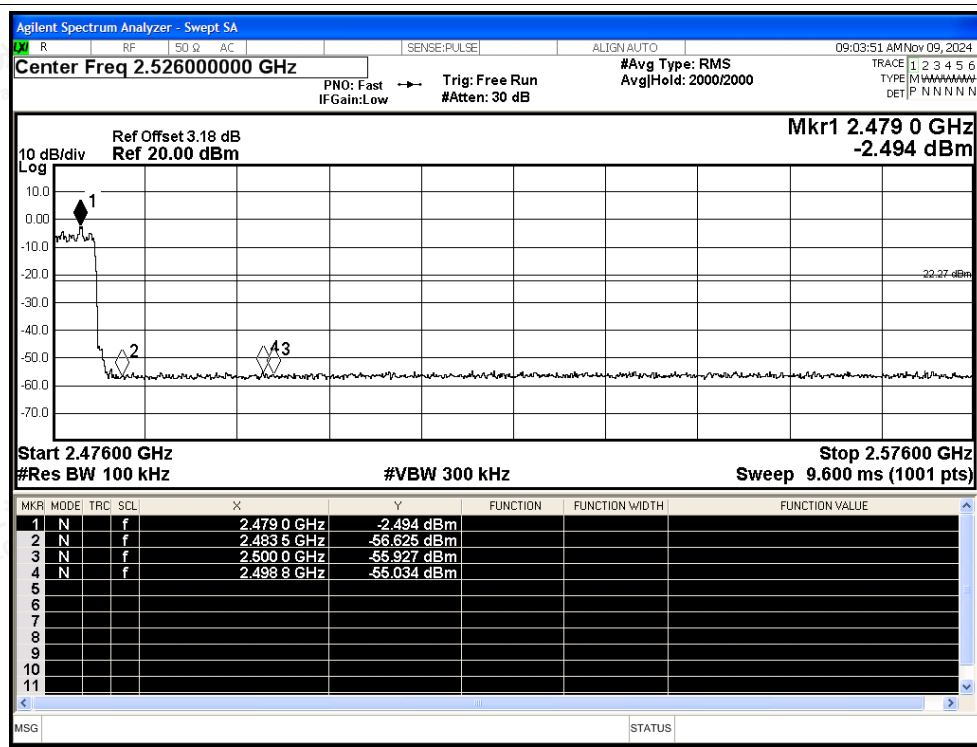




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.89	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.71	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.56	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.16	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.49	-20	Pass

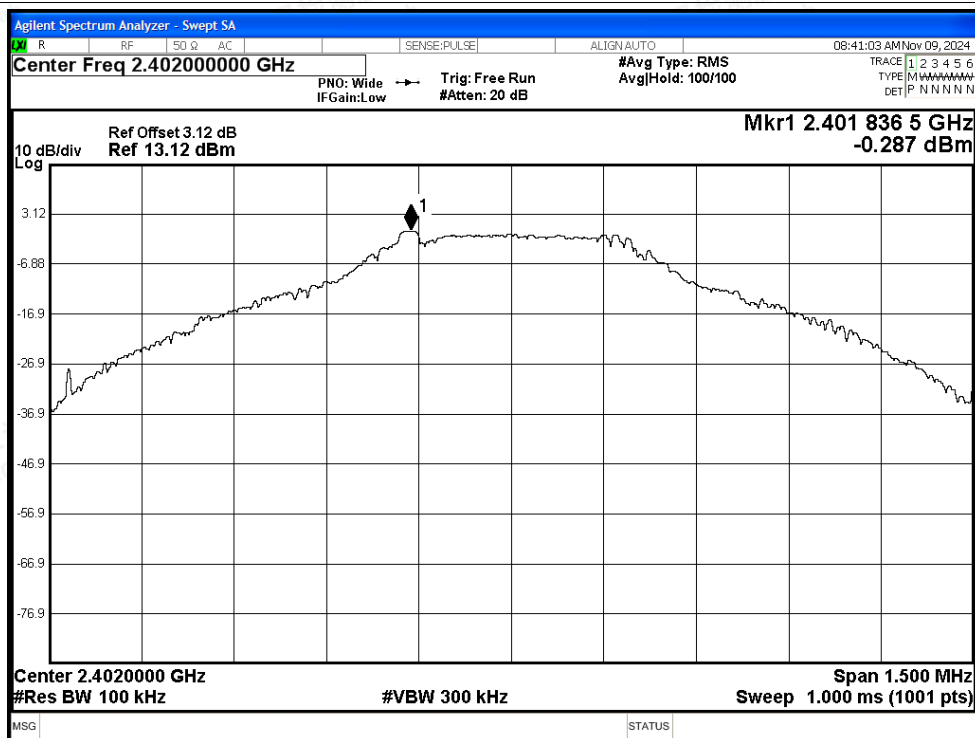


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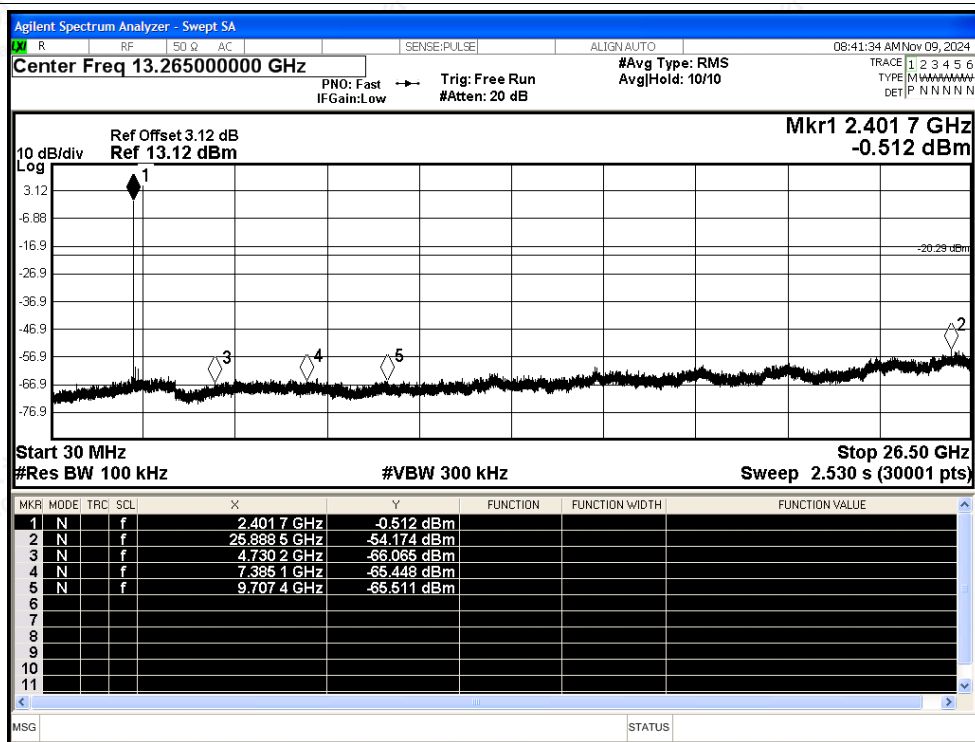


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

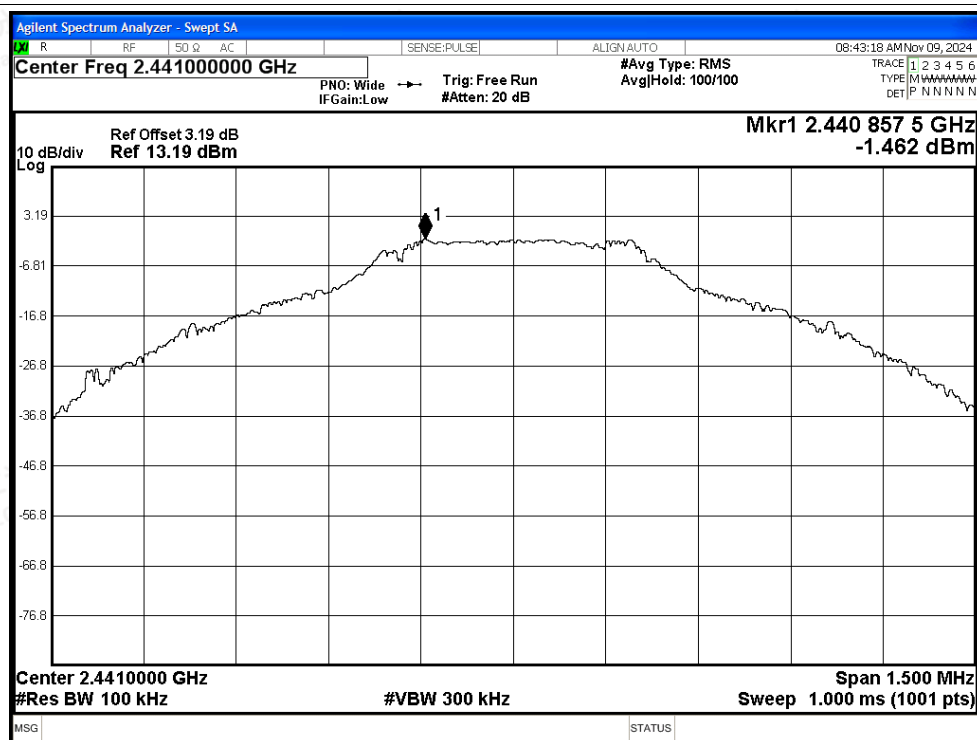


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

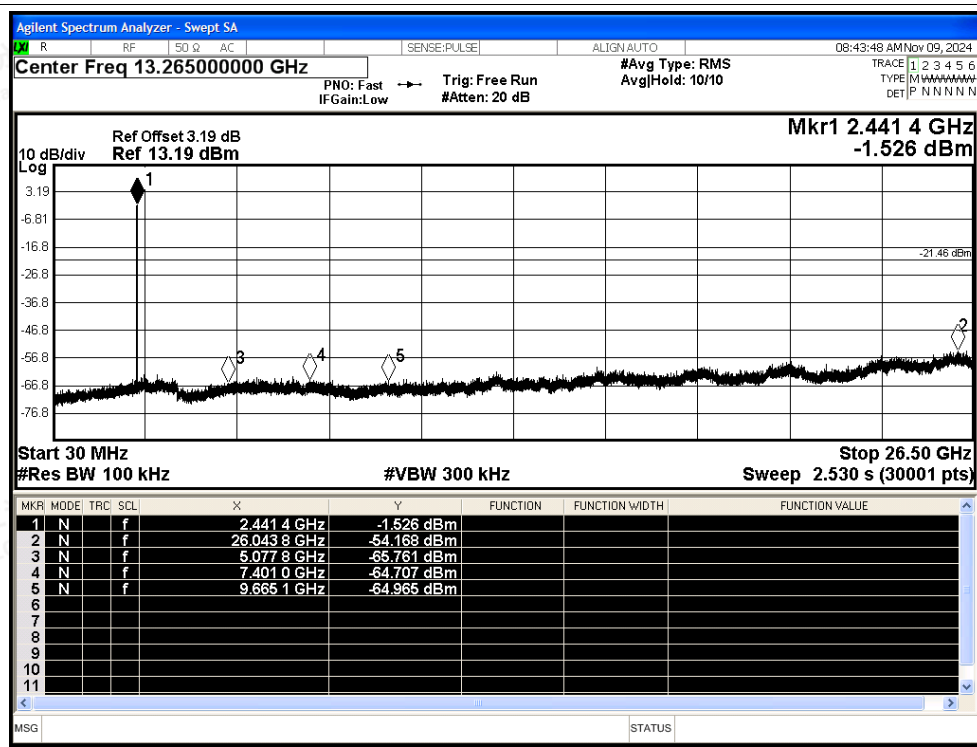




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

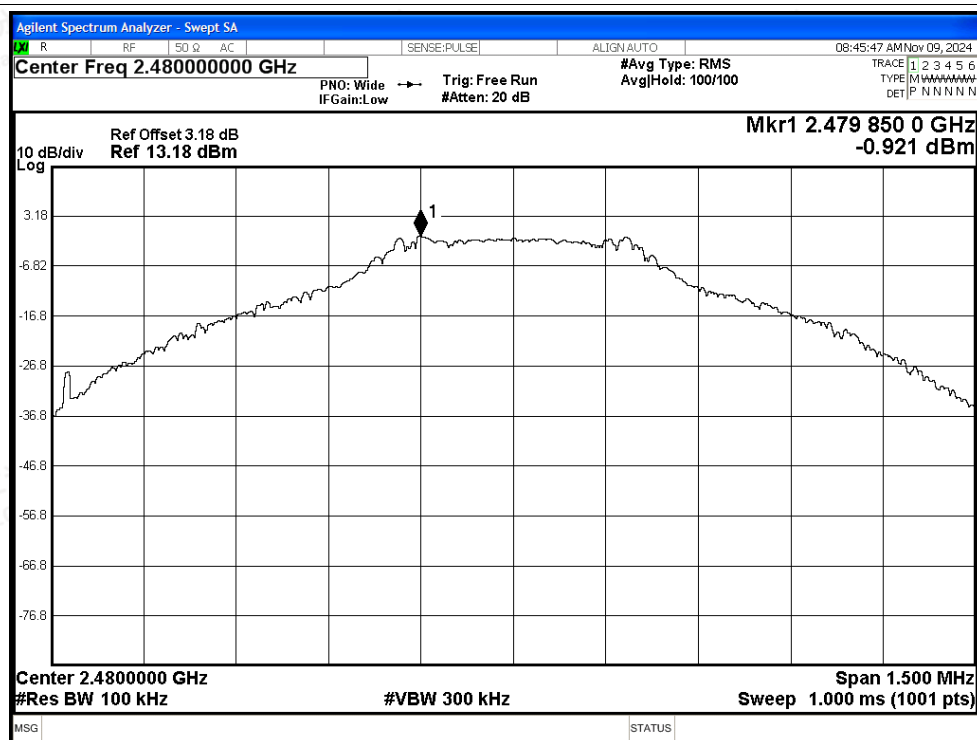


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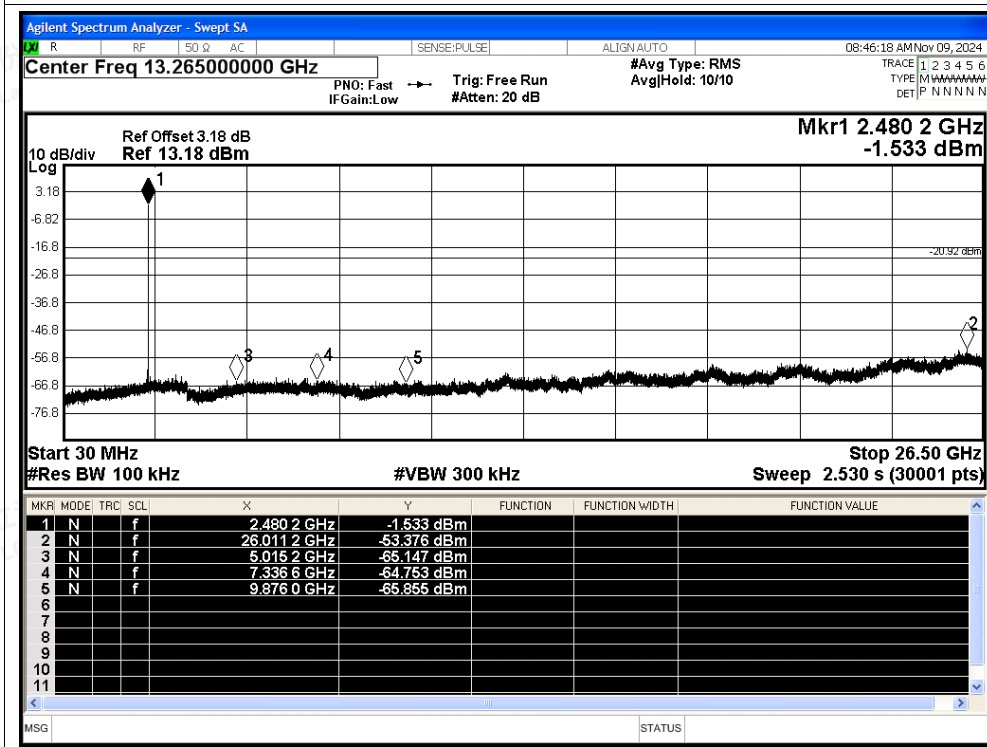




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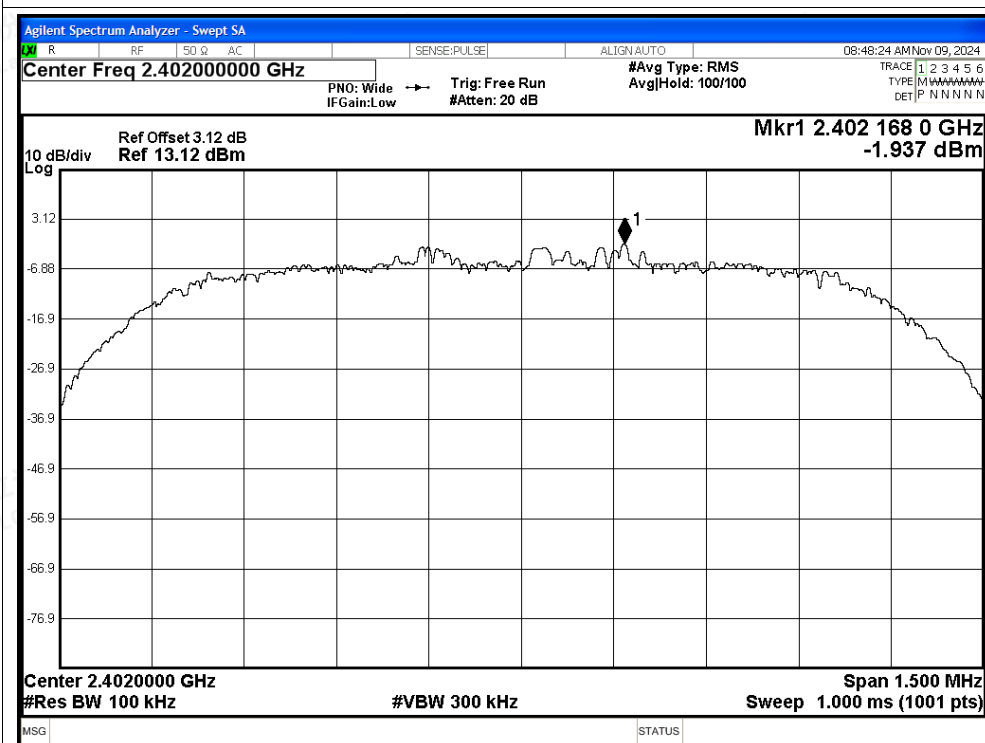


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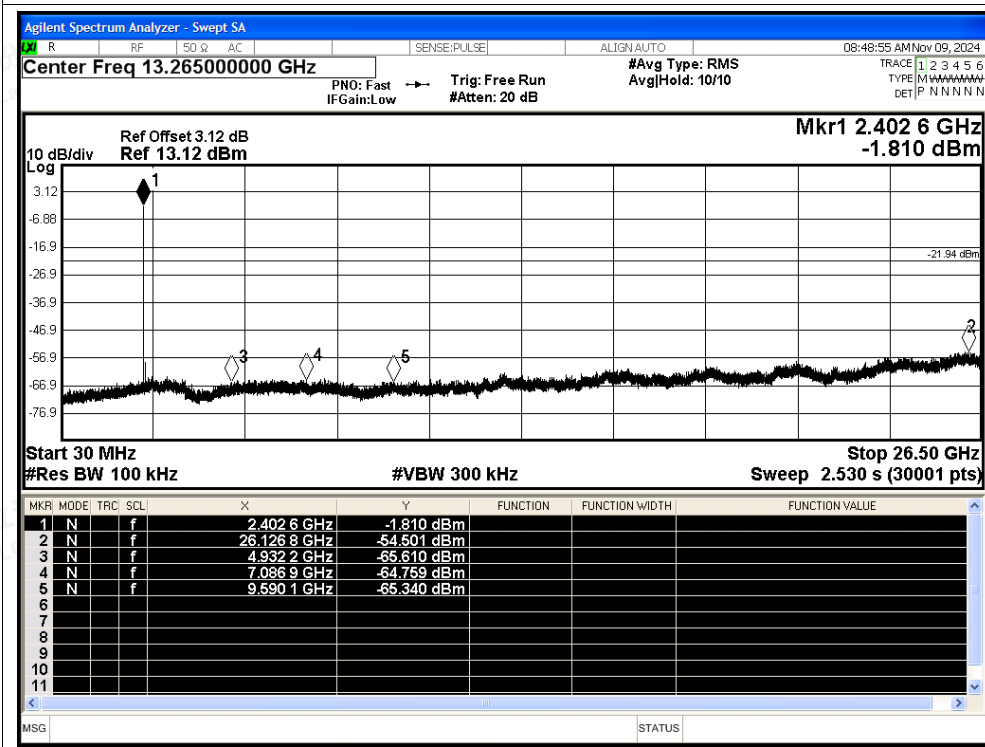




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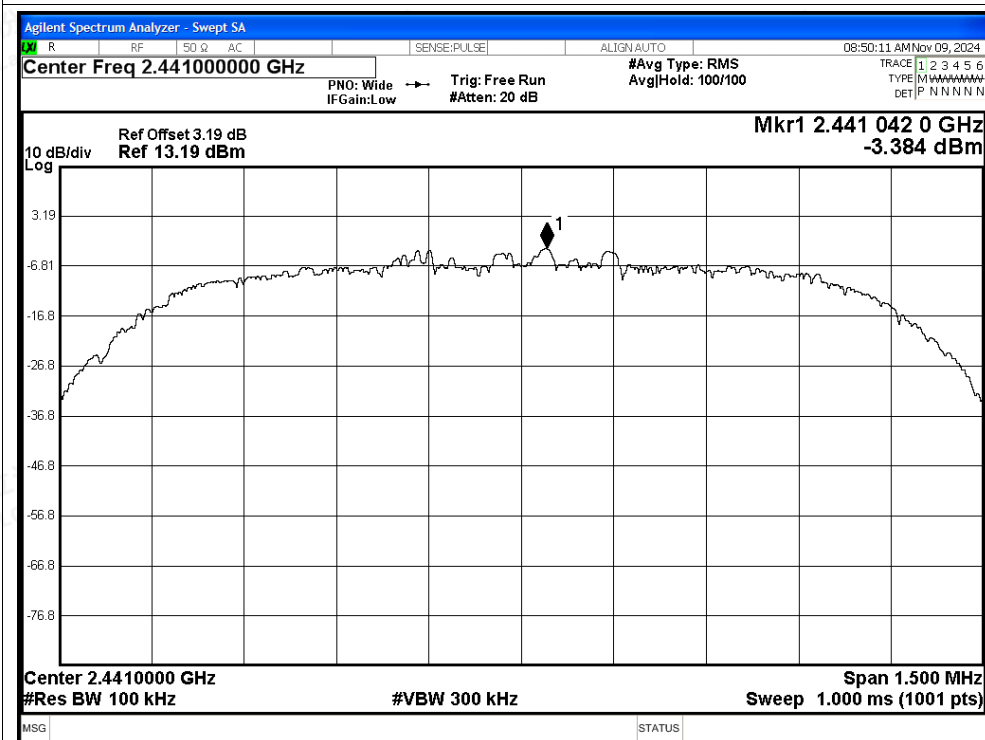


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

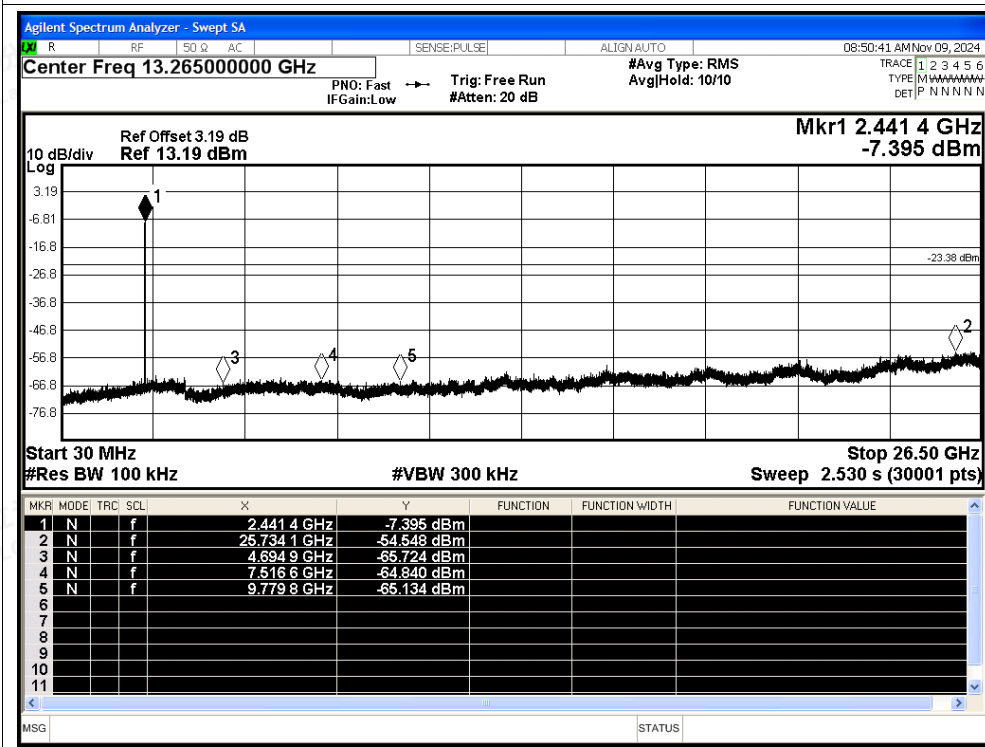




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

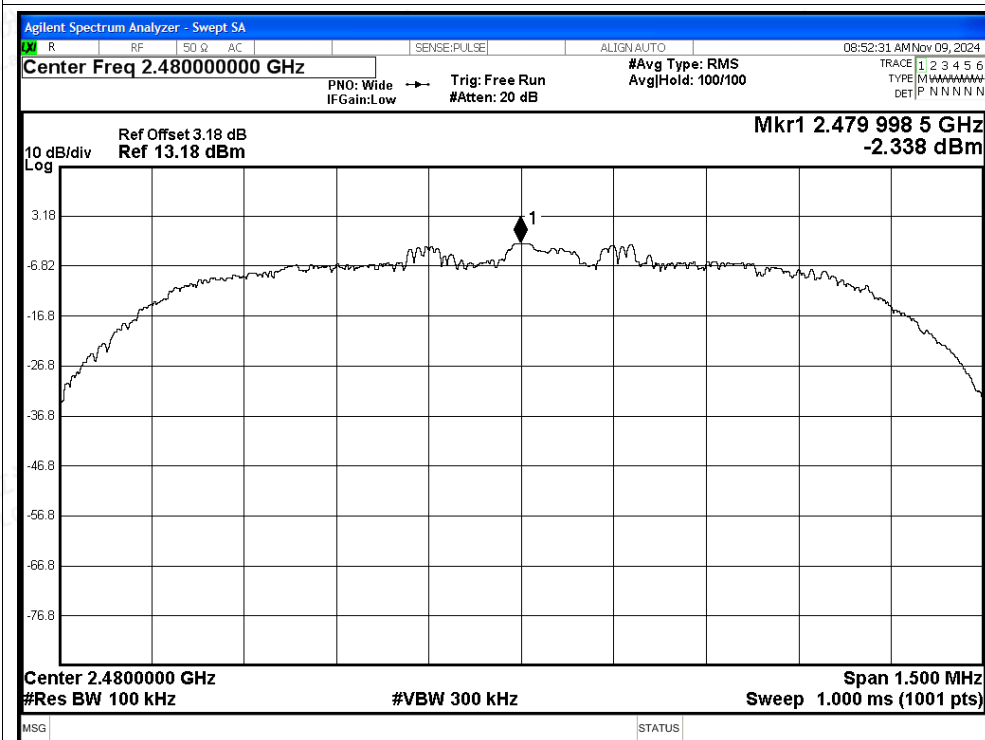


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

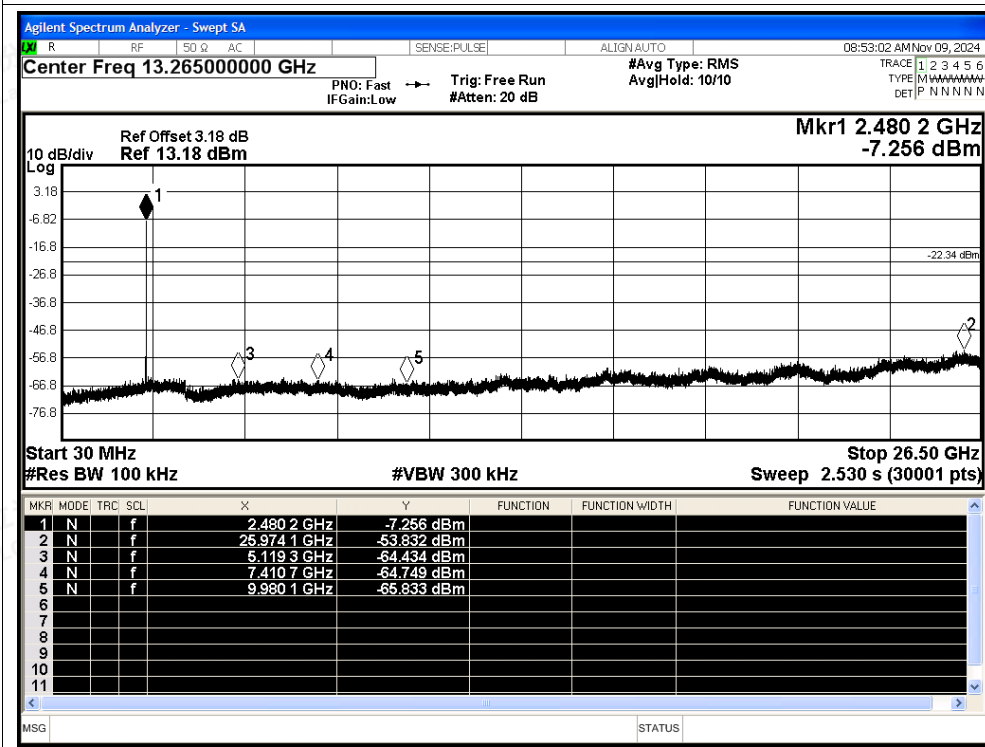




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

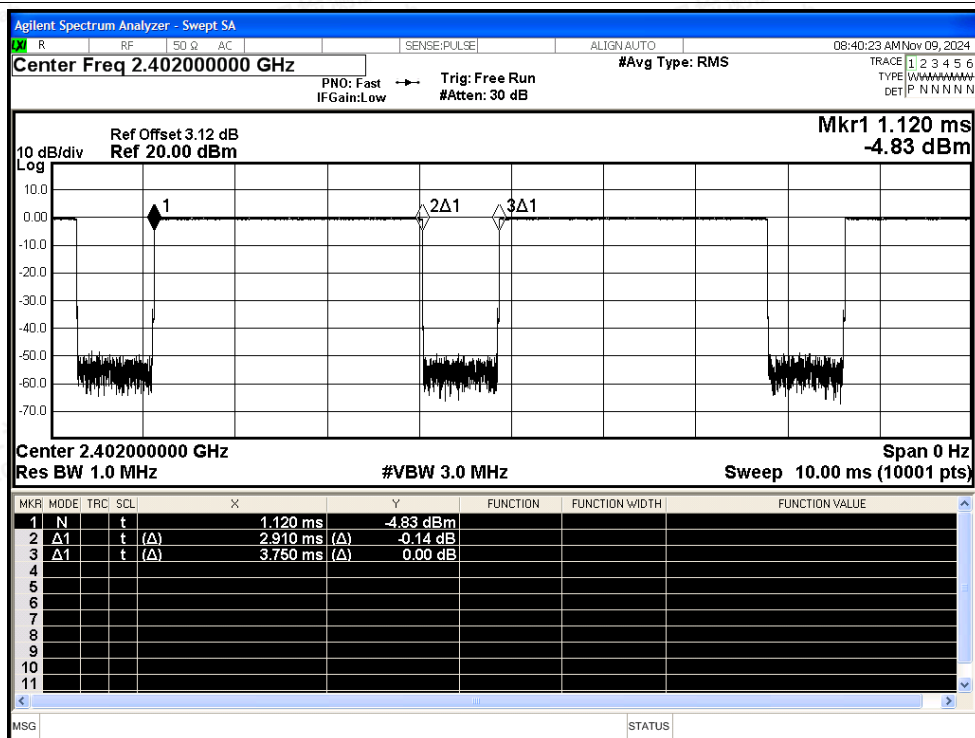


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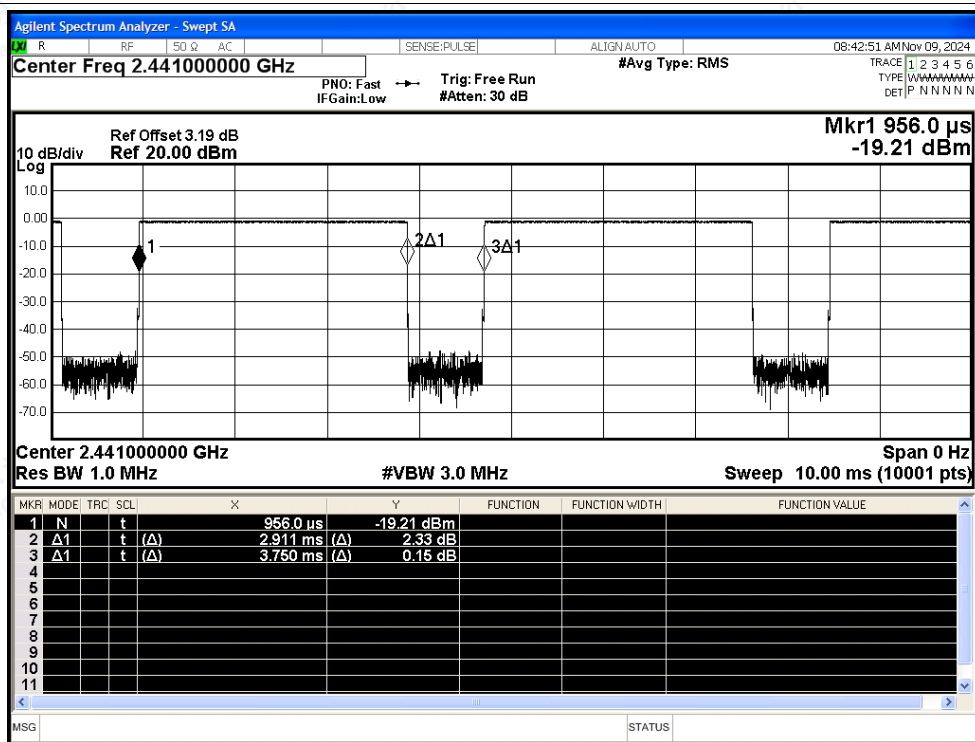


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

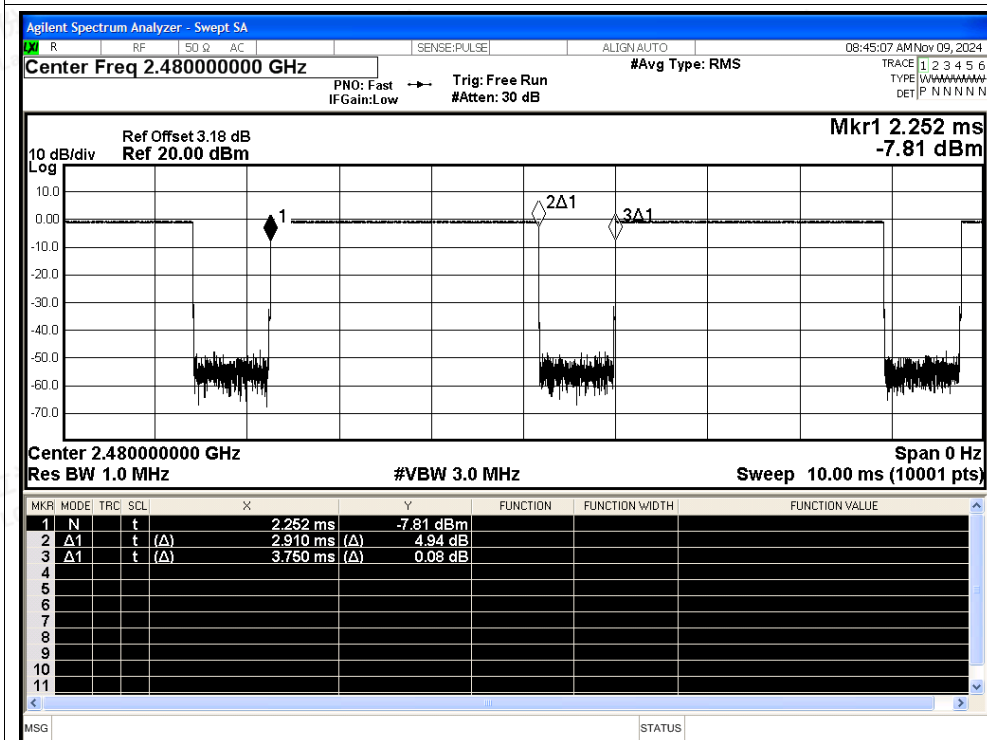


Duty Cycle NVNT 1-DH5 2441MHz Ant1

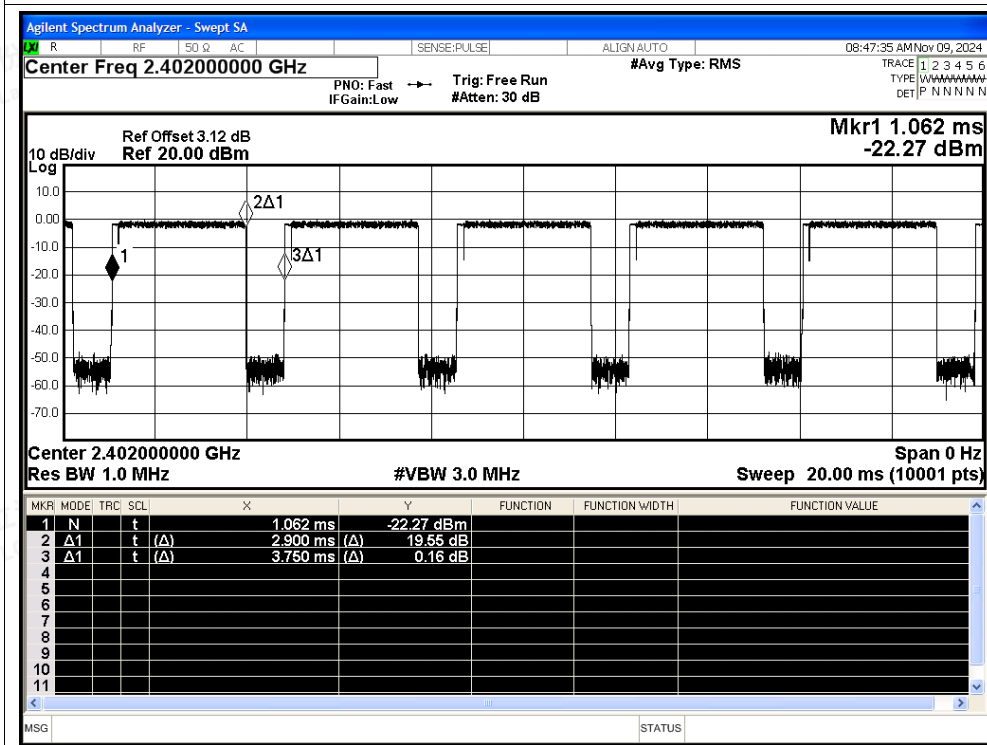




Duty Cycle NVNT 1-DH5 2480MHz Ant1

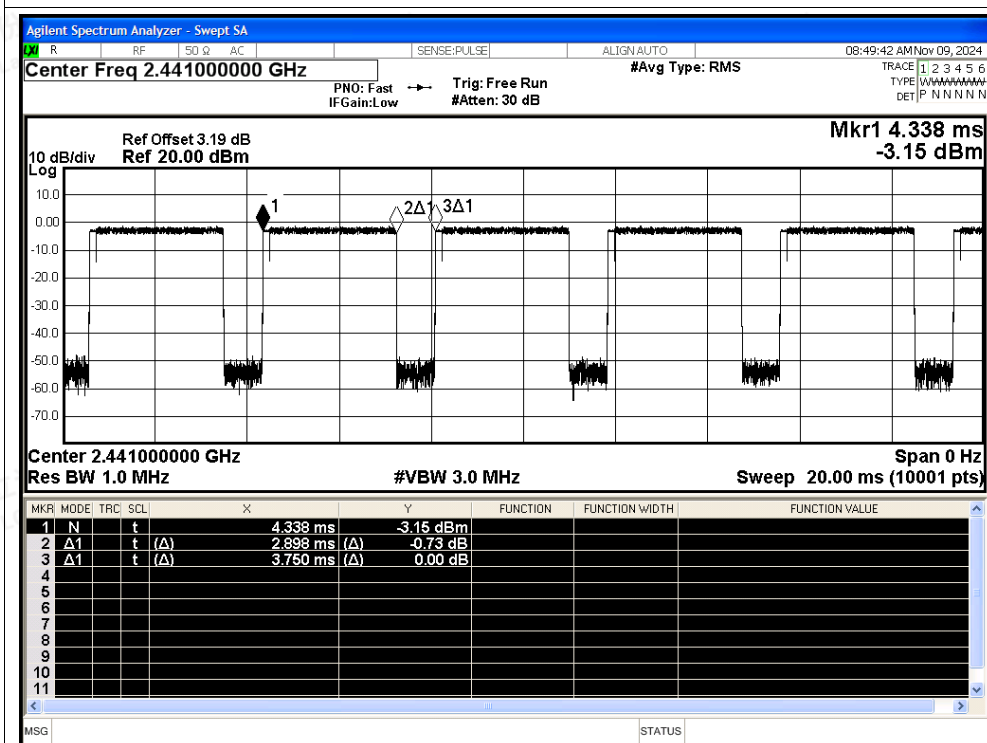


Duty Cycle NVNT 2-DH5 2402MHz Ant1

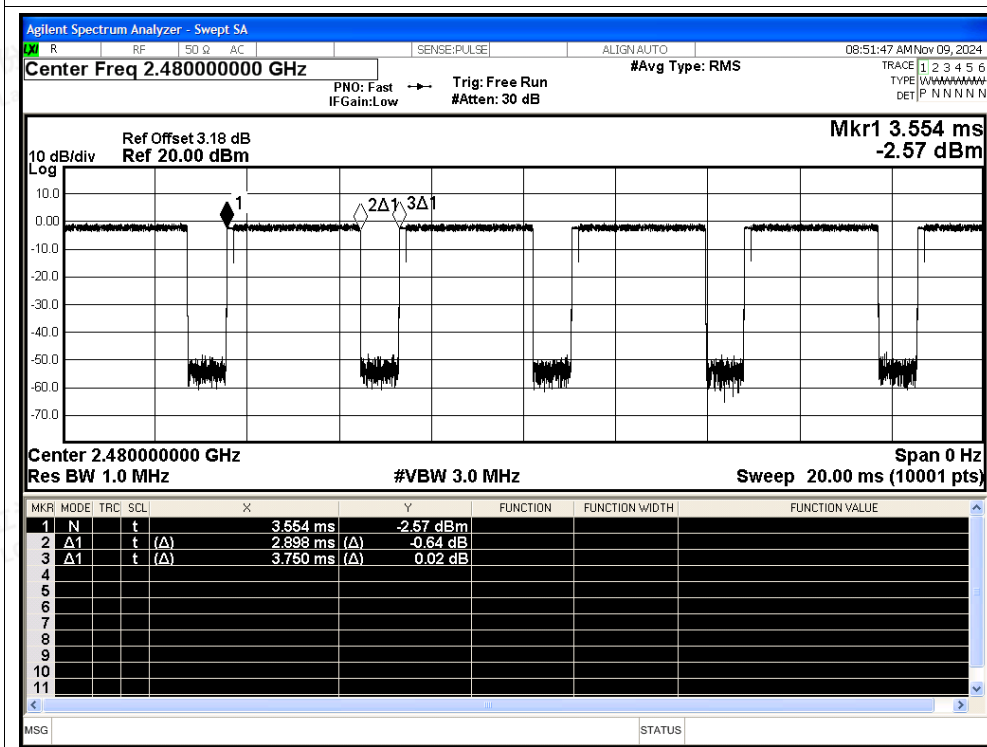




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1





A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.3	2	-	46.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.68	2	1.1	40.68	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2323.536	-46.68	2	-	50.58	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2370.96	-56.64	2	1.1	41.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.45	2	-	46.81	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.48	2	1.1	40.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-46.94	2	-	50.32	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.89	2	1.1	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.944	-44.84	2	-	52.42	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.496	-56.22	2	1.1	42.14	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.92	2	-	48.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.14	2	1.1	41.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.16	2	-	47.1	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.38	2	1.12	41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2355.024	-46.25	2	-	51.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.352	-56.56	2	1.12	41.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.41	2	-	47.85	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.95	2	1.12	40.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.53	2	-	48.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.22	2	1.12	42.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2495.704	-45.68	2	-	51.58	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.48	-56.1	2	1.12	42.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-45.91	2	-	51.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.86	2	1.12	40.52	Average	54	Pass

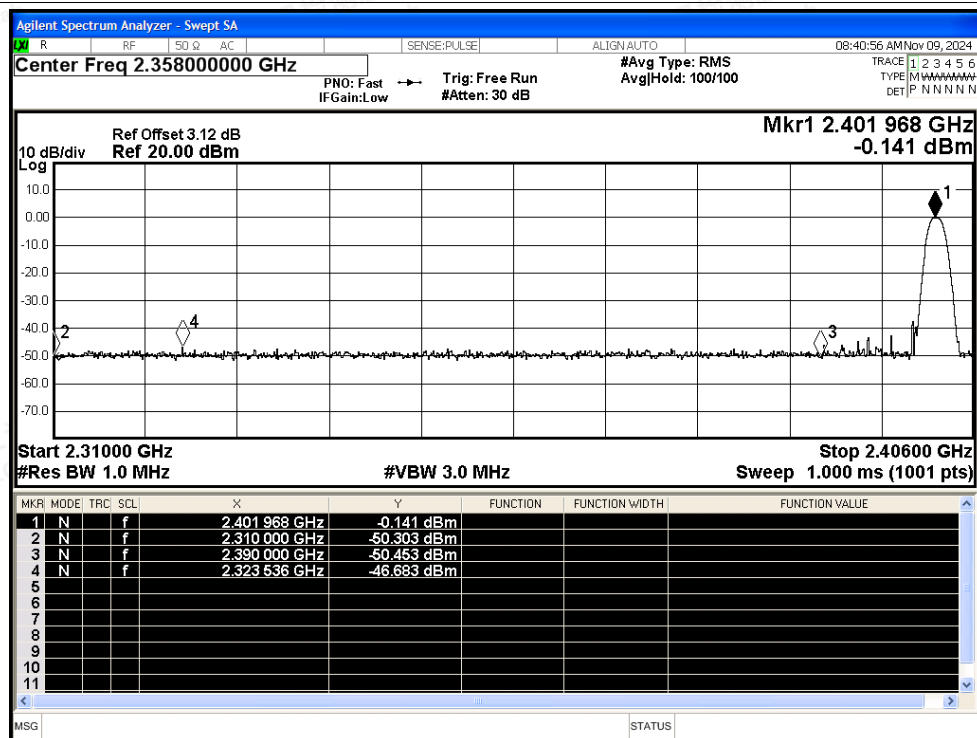


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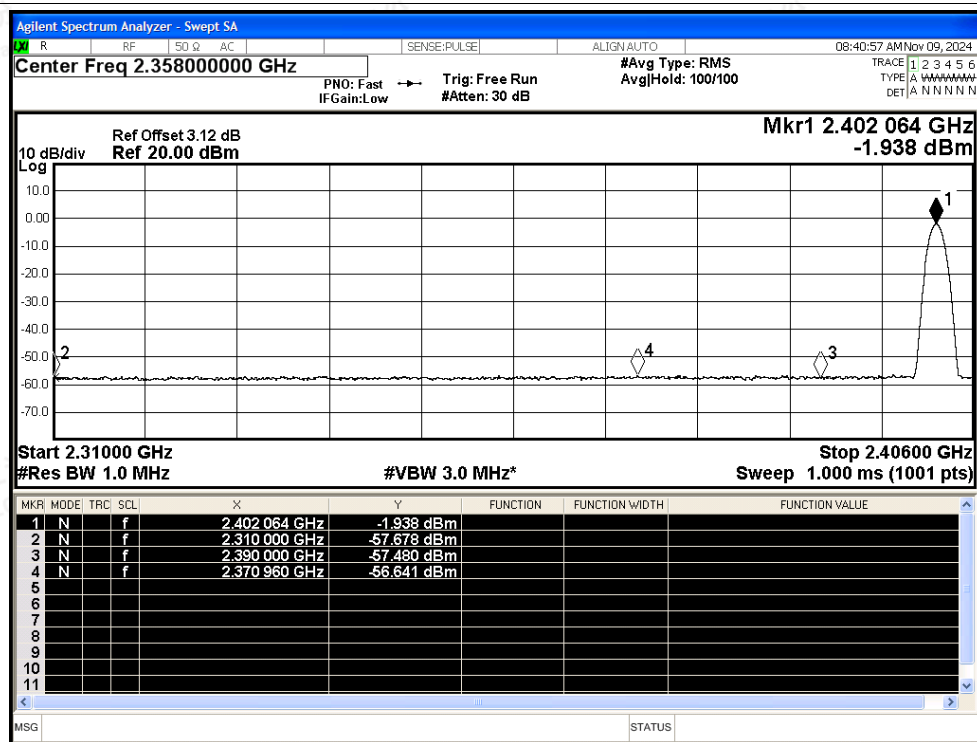


Test Graphs

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



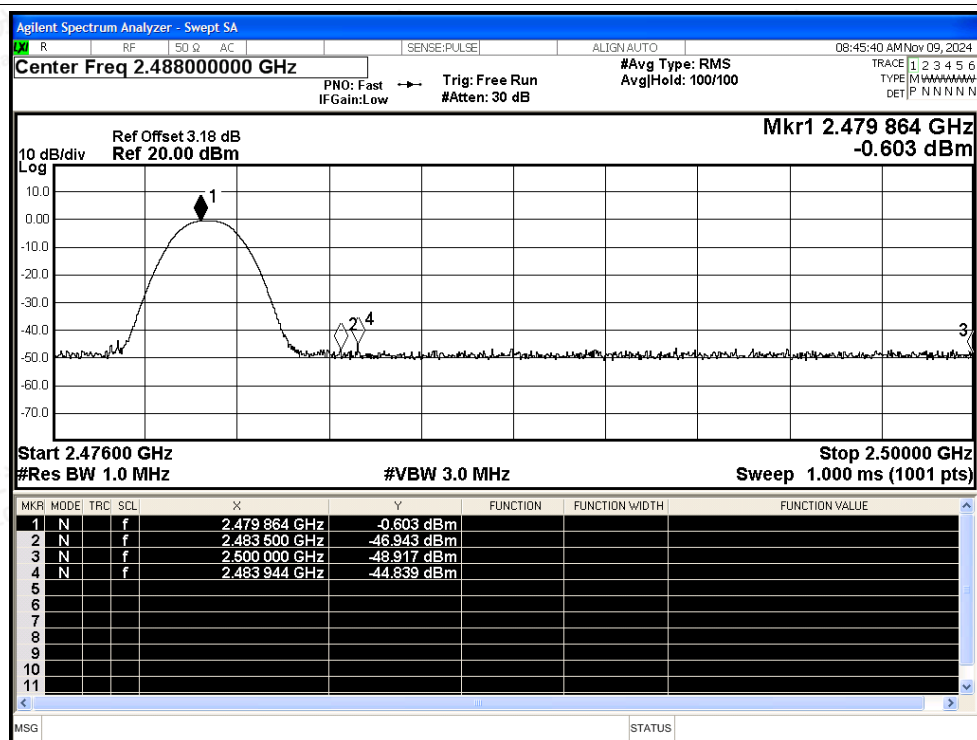
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



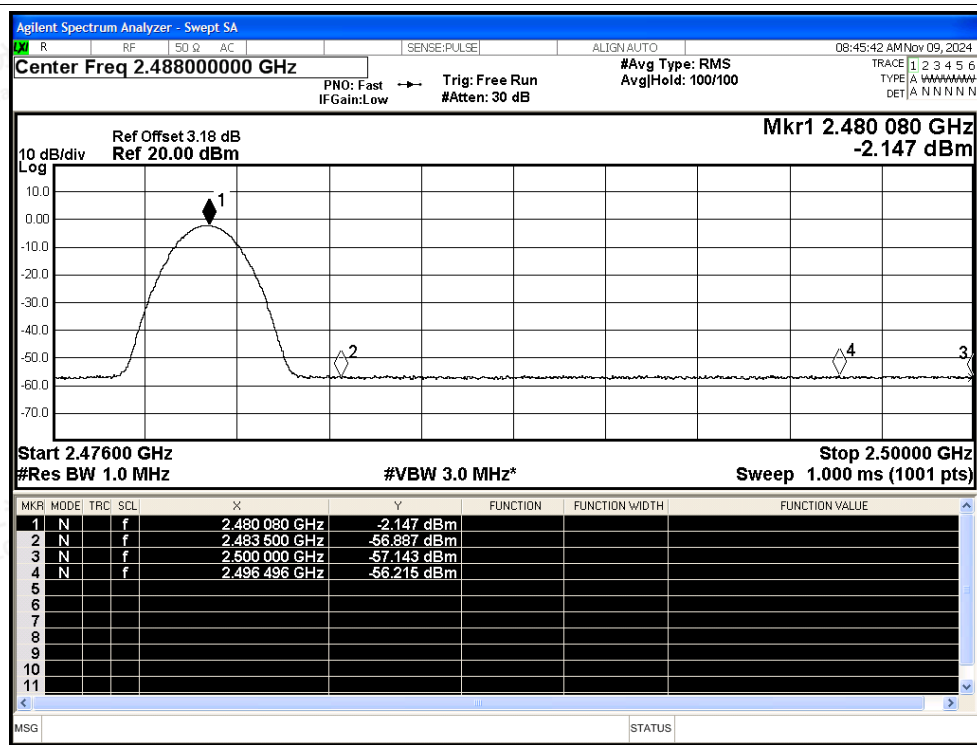
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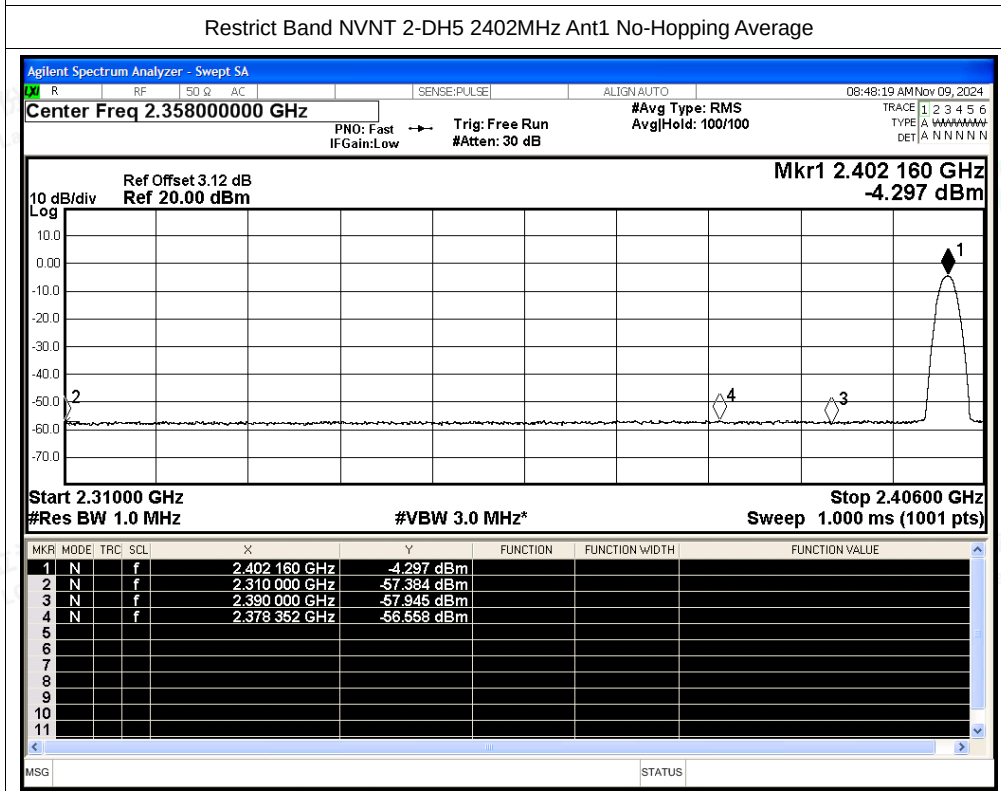
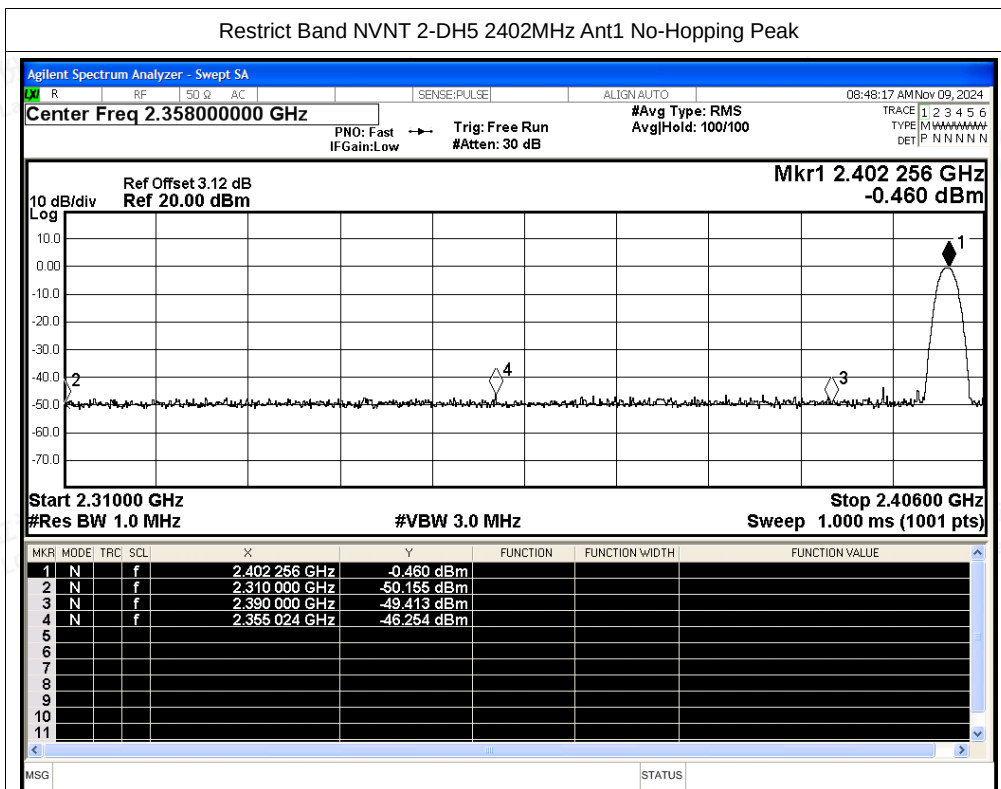


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



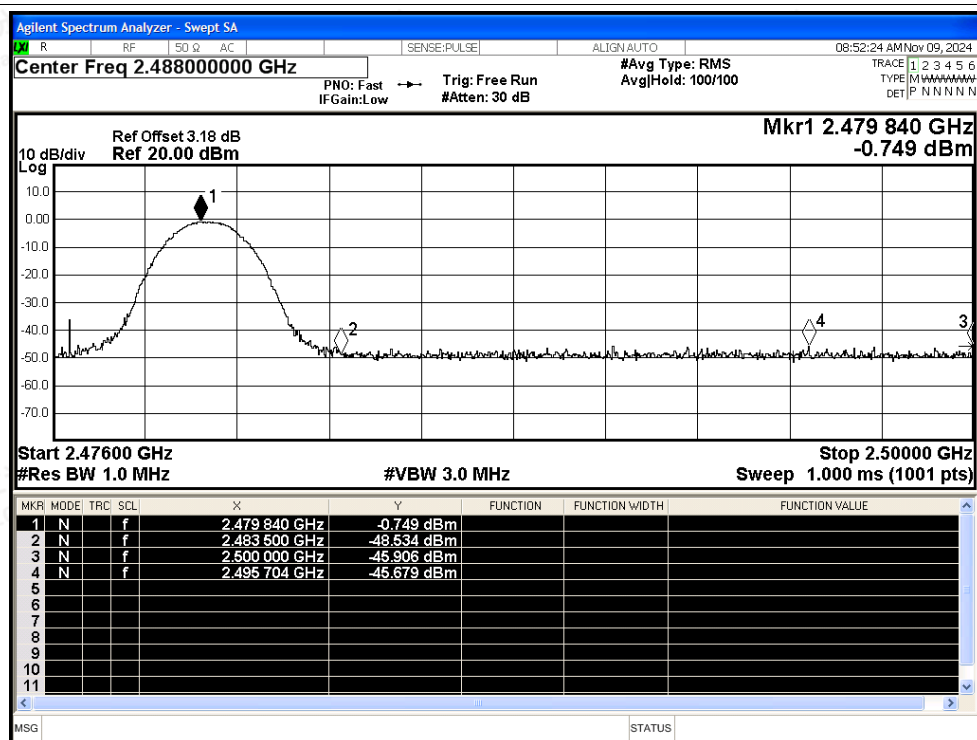
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average







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



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

