



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: smart watch

Test Model: TB67D

#### Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
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	0.948	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.009	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.933	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass

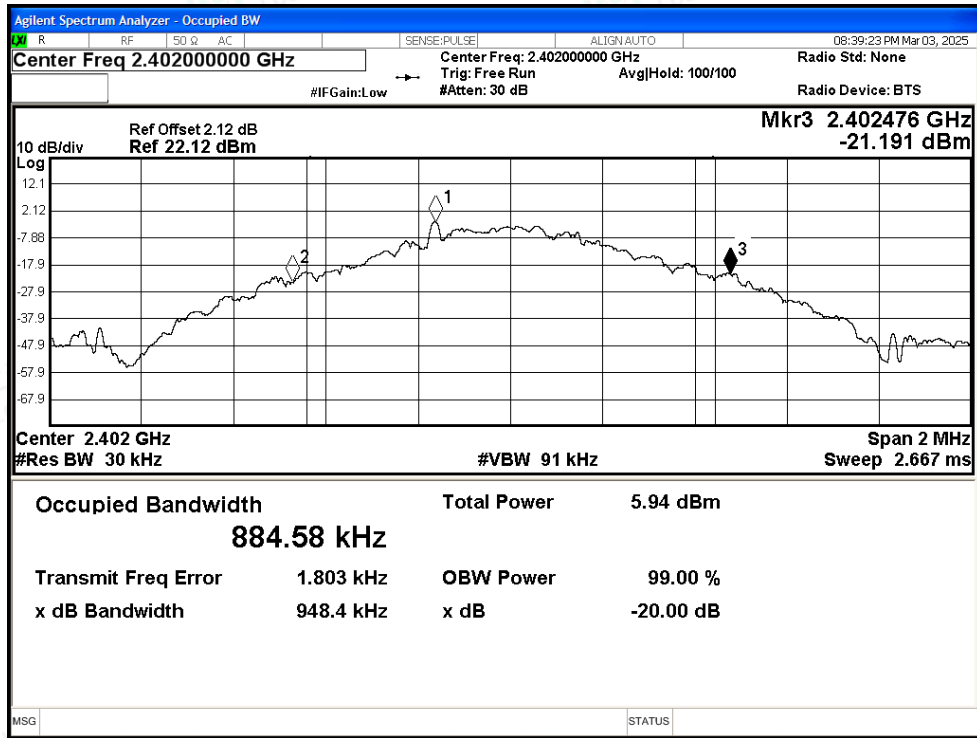


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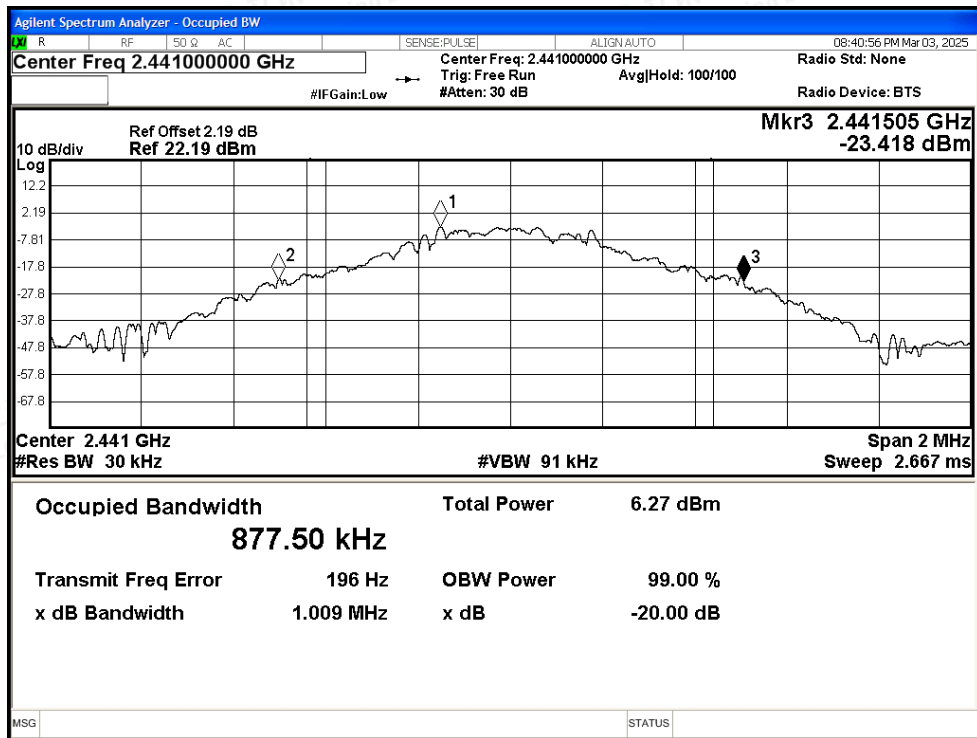


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

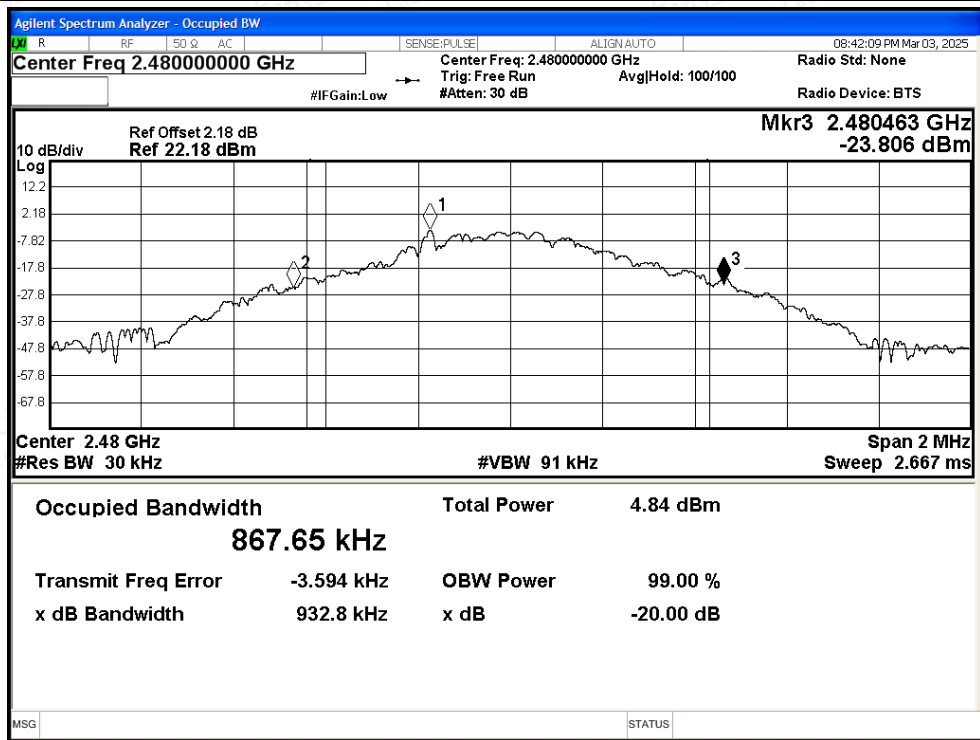


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

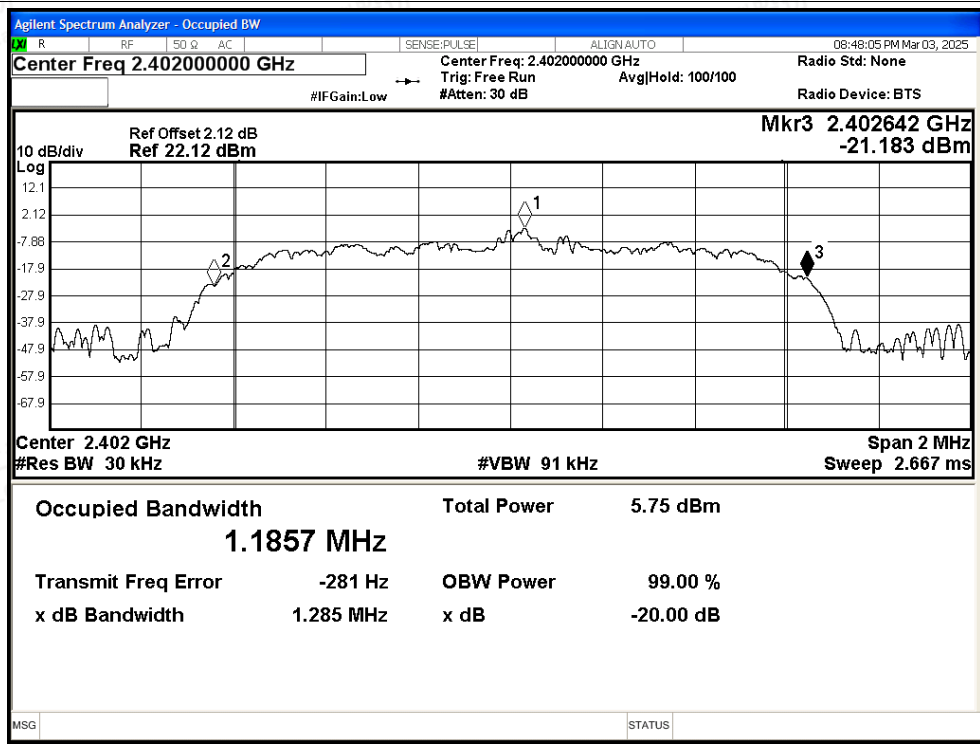




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

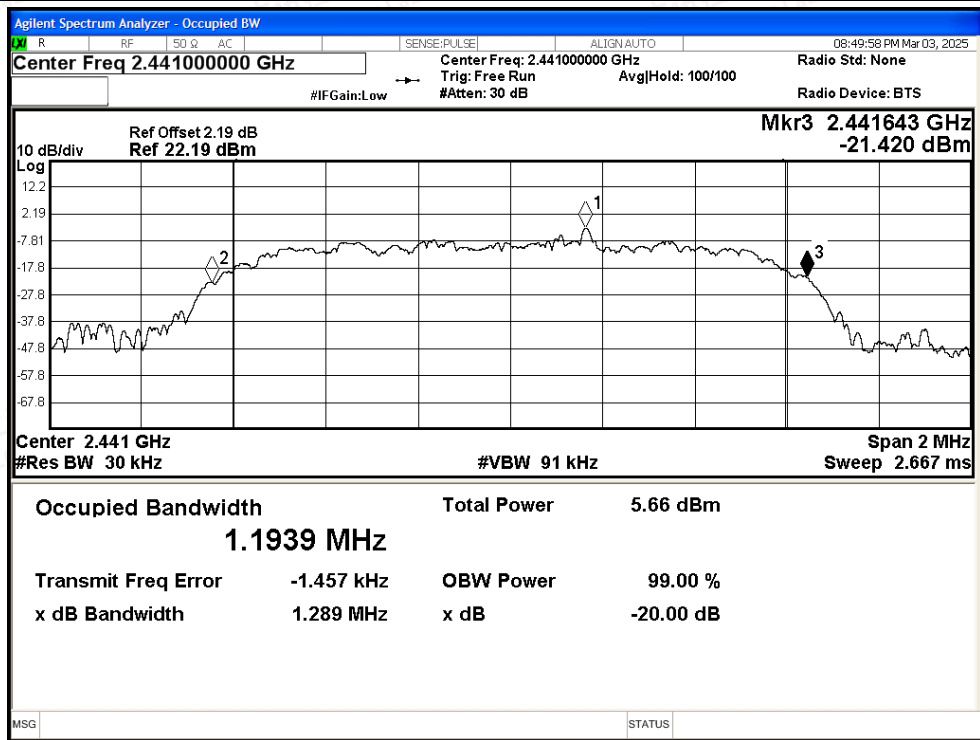


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

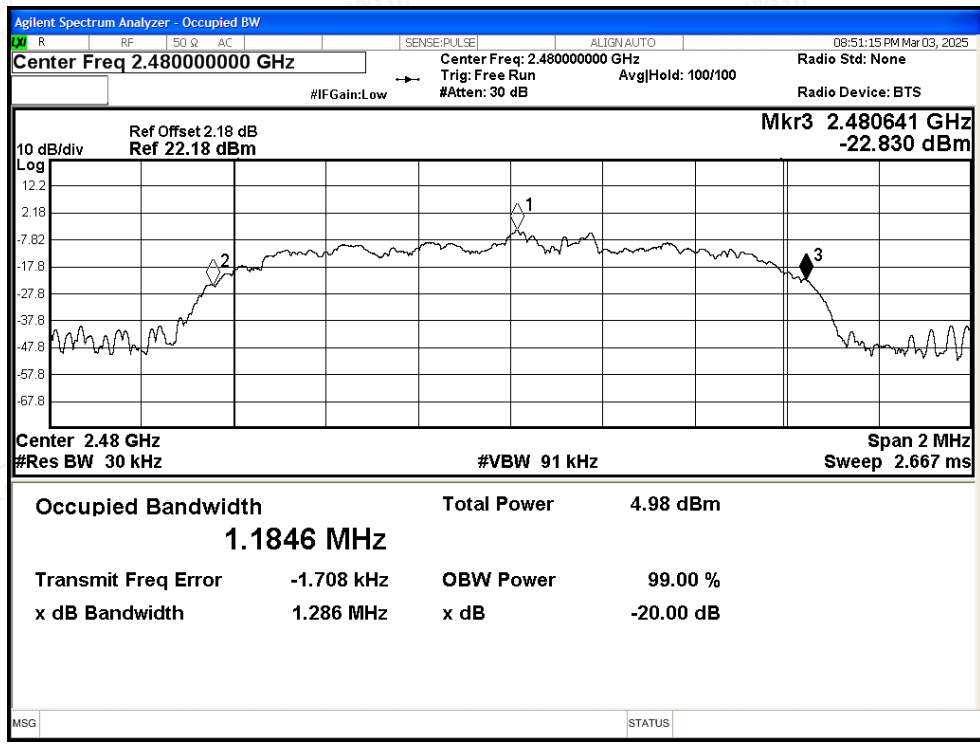




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.49	0	-0.49	21	Pass
NVNT	1-DH5	2441	Ant1	0.01	0	0.01	21	Pass
NVNT	1-DH5	2480	Ant1	-1.38	0	-1.38	21	Pass
NVNT	2-DH5	2402	Ant1	1.46	0	1.46	21	Pass
NVNT	2-DH5	2441	Ant1	1.7	0	1.7	21	Pass
NVNT	2-DH5	2480	Ant1	0.48	0	0.48	21	Pass

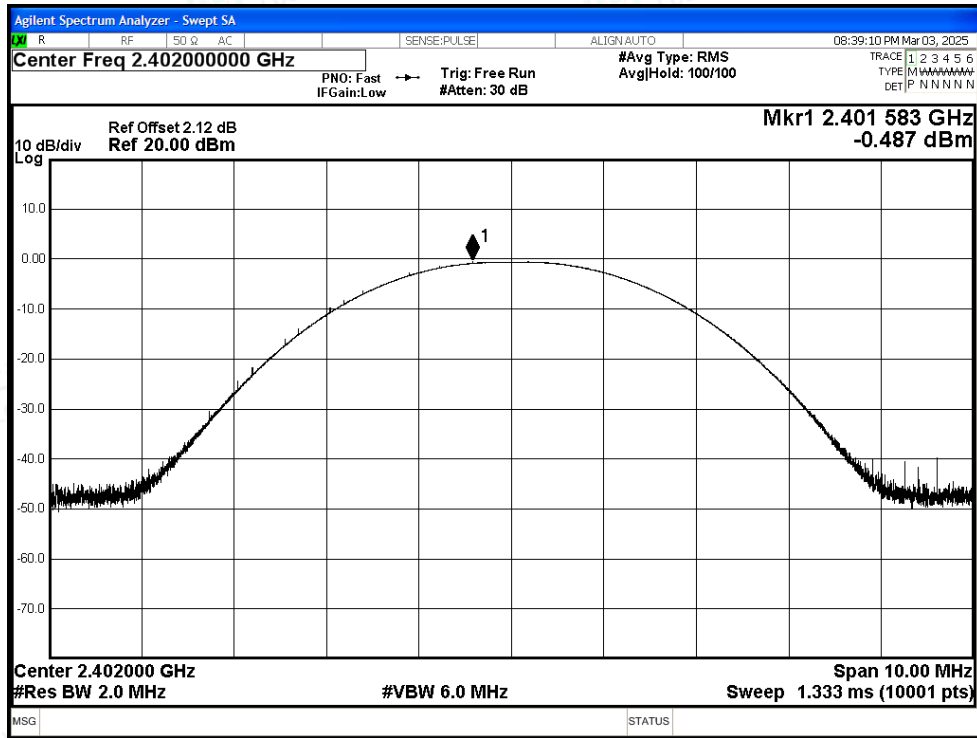


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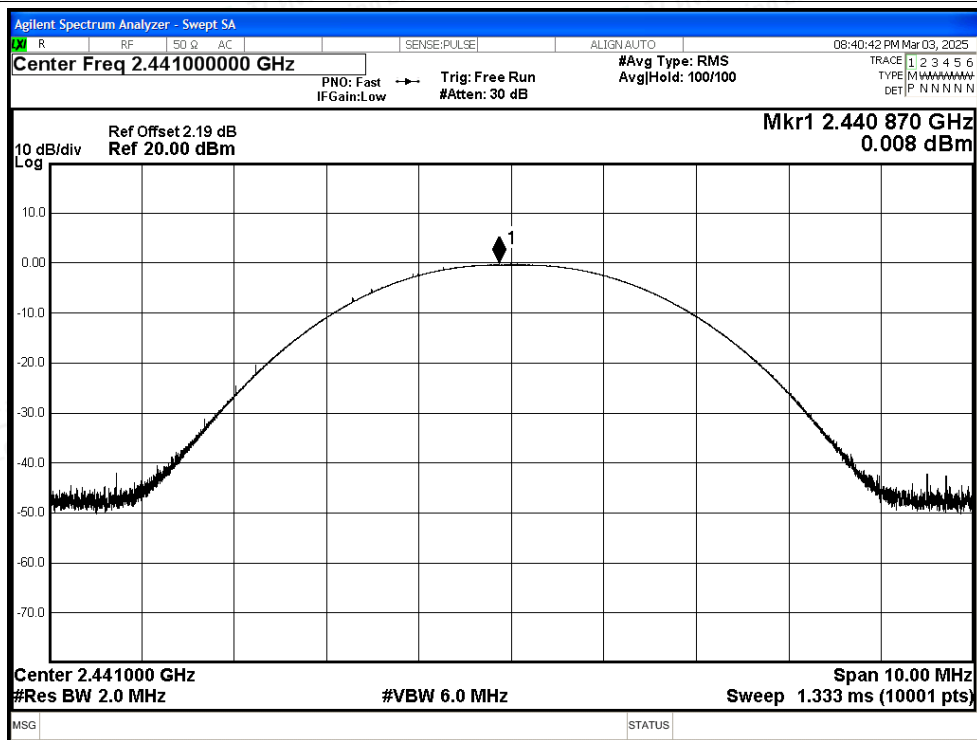


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

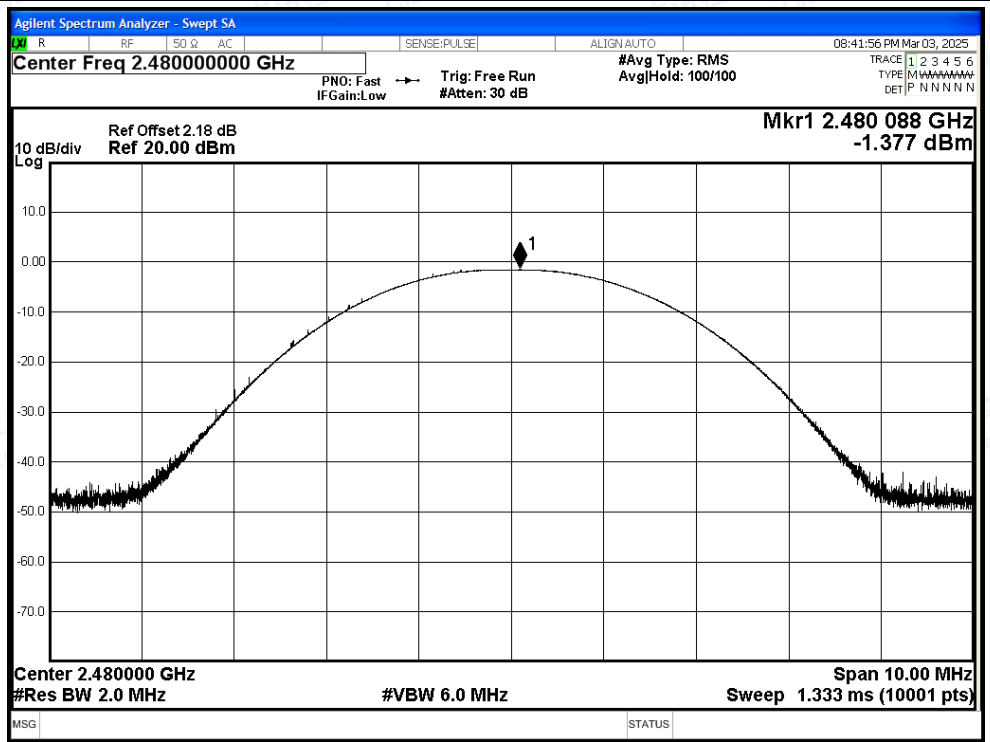


Power NVNT 1-DH5 2441MHz Ant1

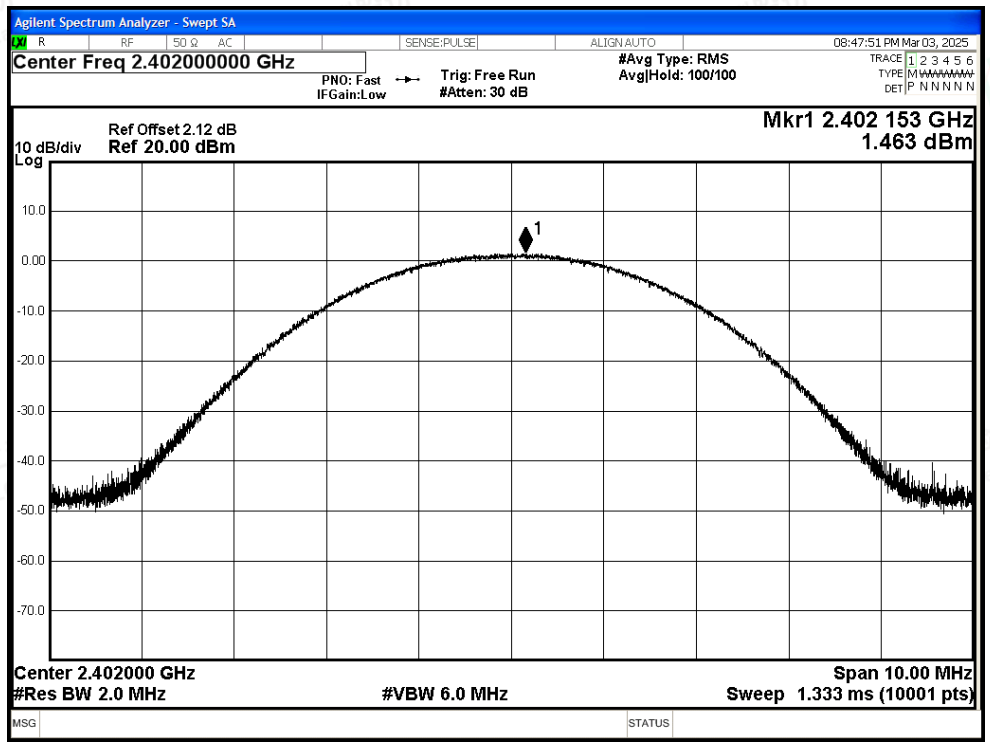




Power NVNT 1-DH5 2480MHz Ant1



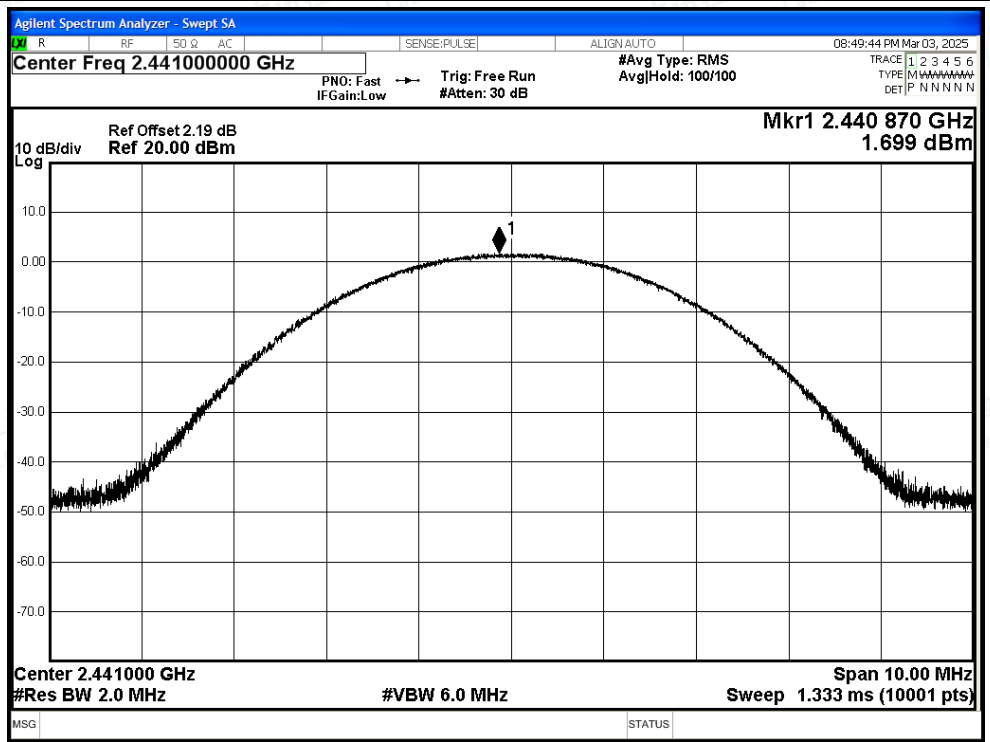
Power NVNT 2-DH5 2402MHz Ant1



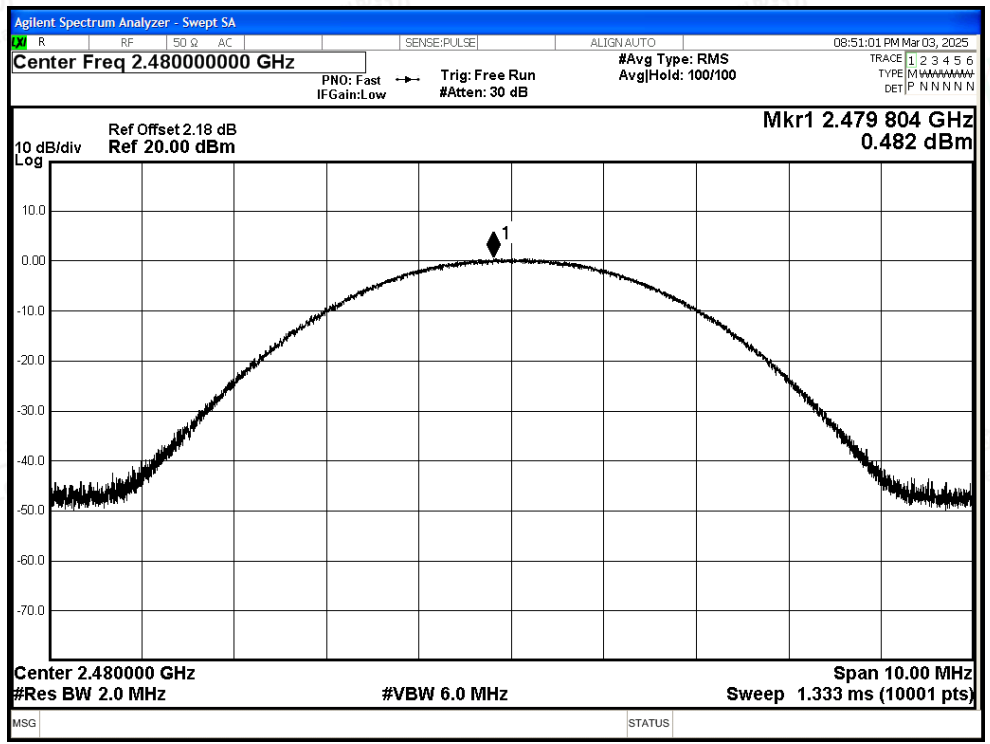




Power NVNT 2-DH5 2441MHz Ant1



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	2401.996	2403.004	1.008	0.673	Pass
NVNT	2-DH5	Ant1	2402.036	2403.026	0.99	0.859	Pass

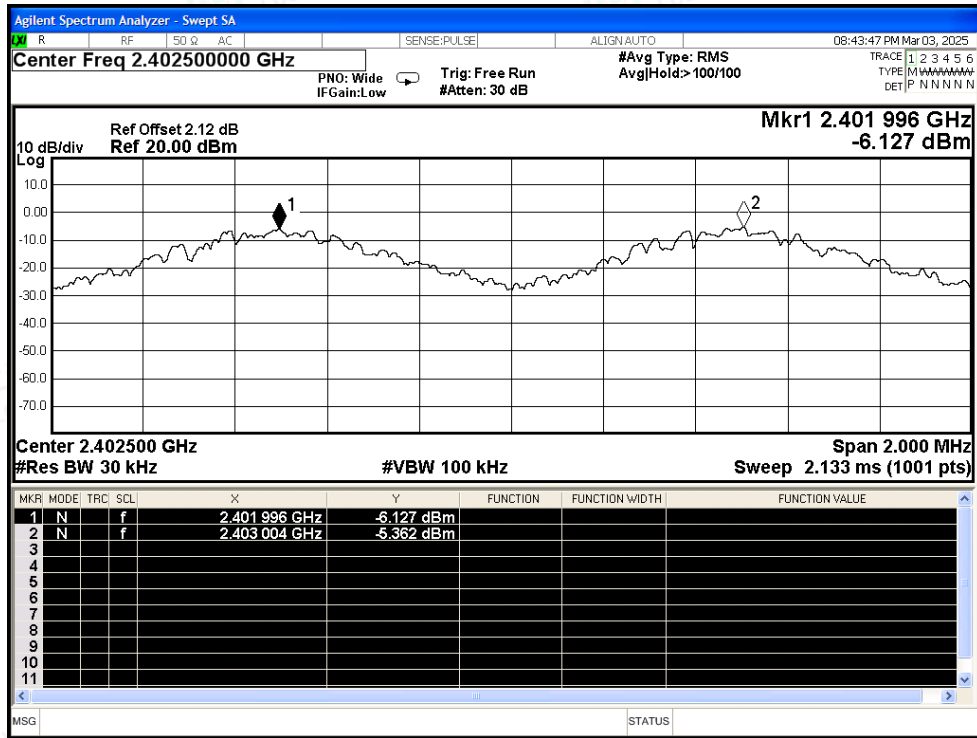


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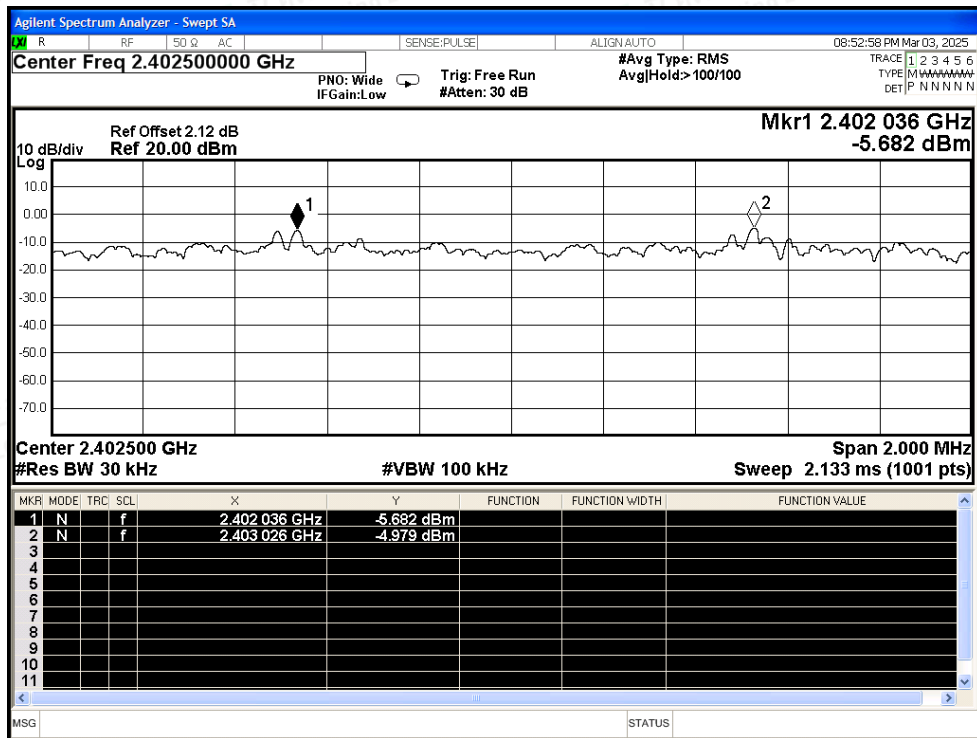


Test Graphs

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	343.38	118	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	278.208	96	31600	400	Pass

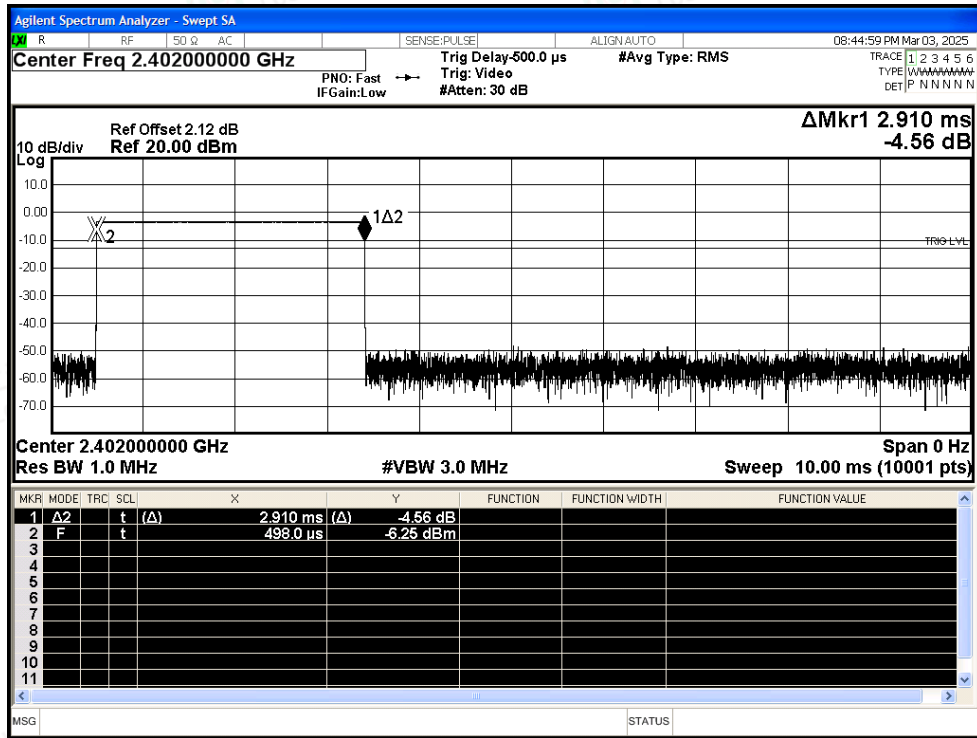


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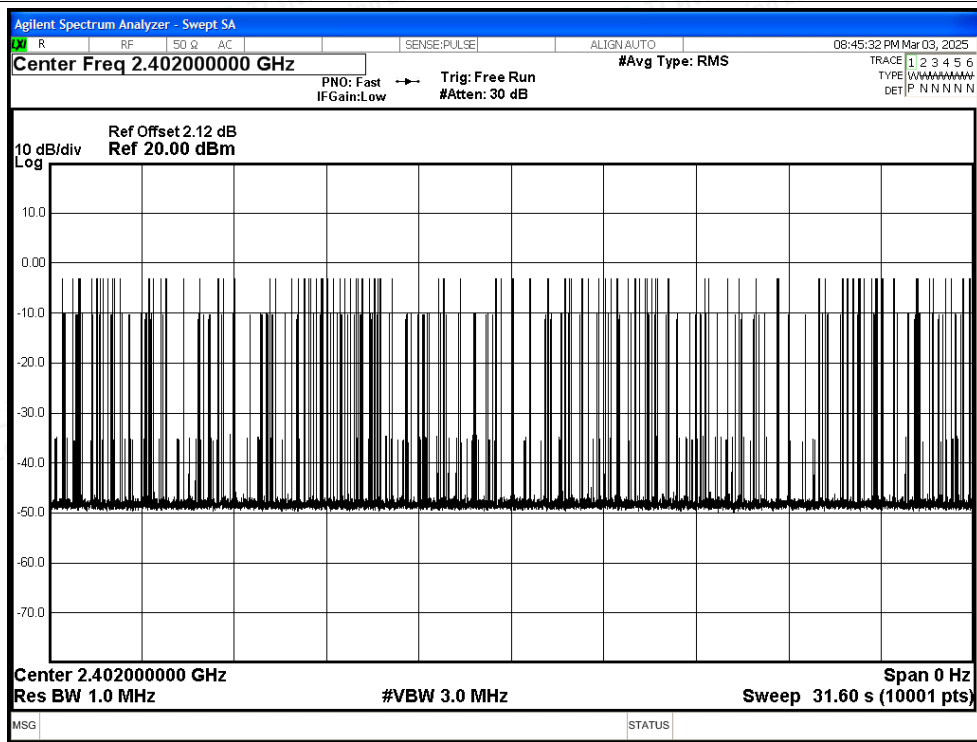


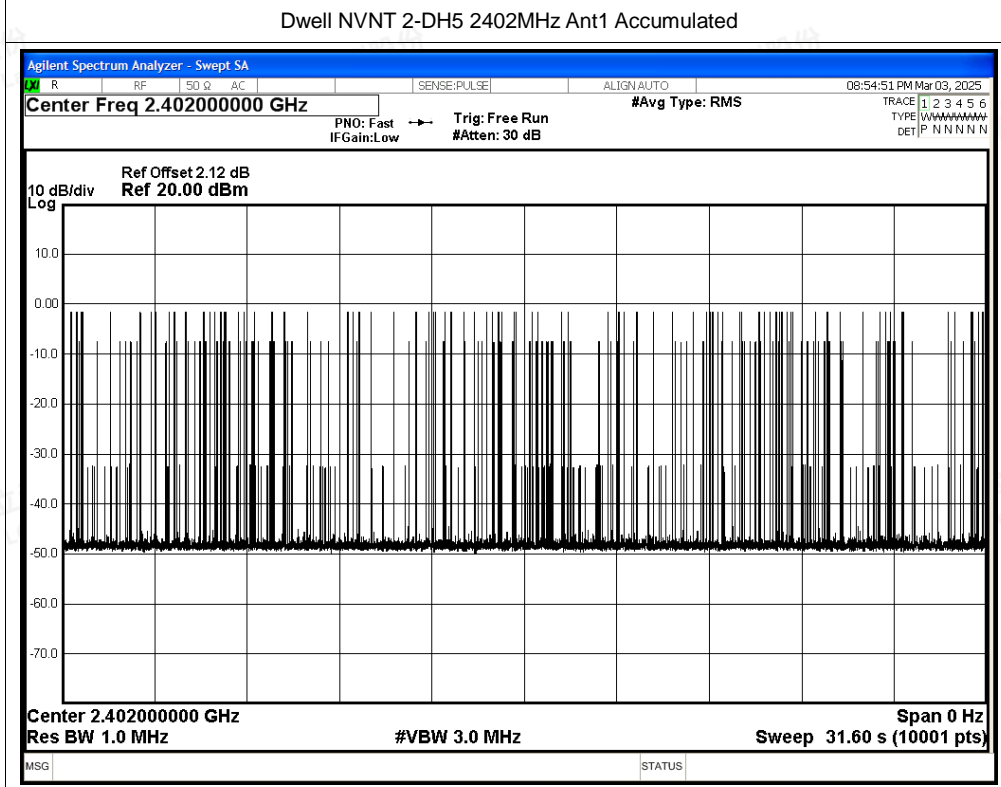
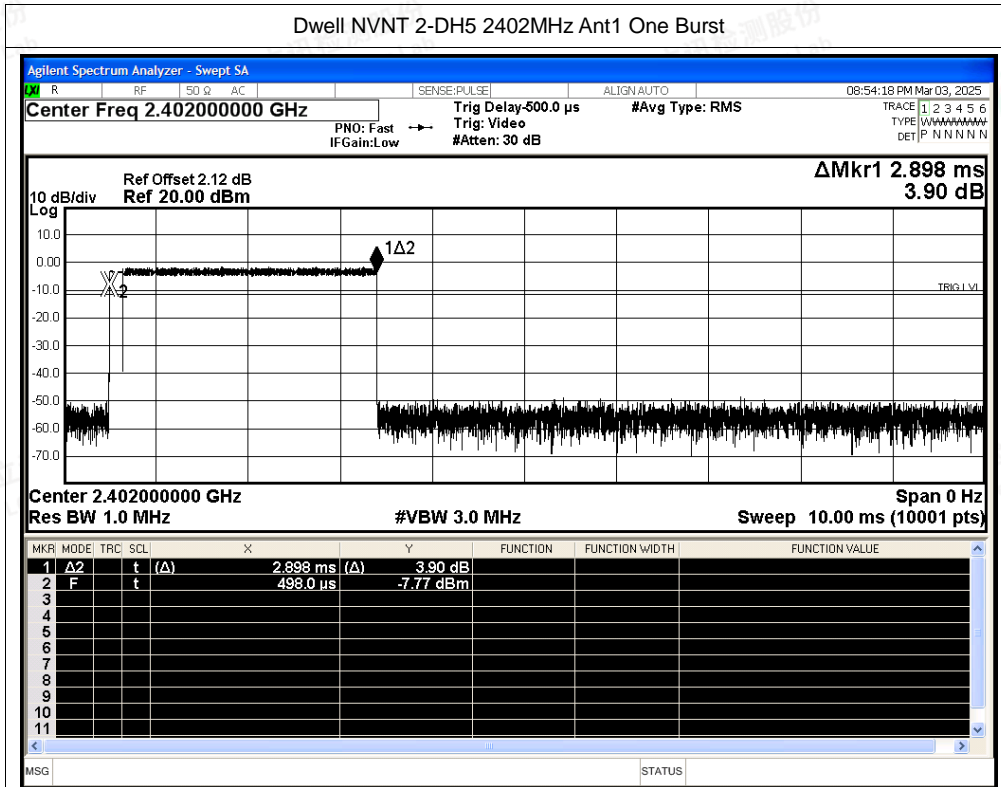
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated







## 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

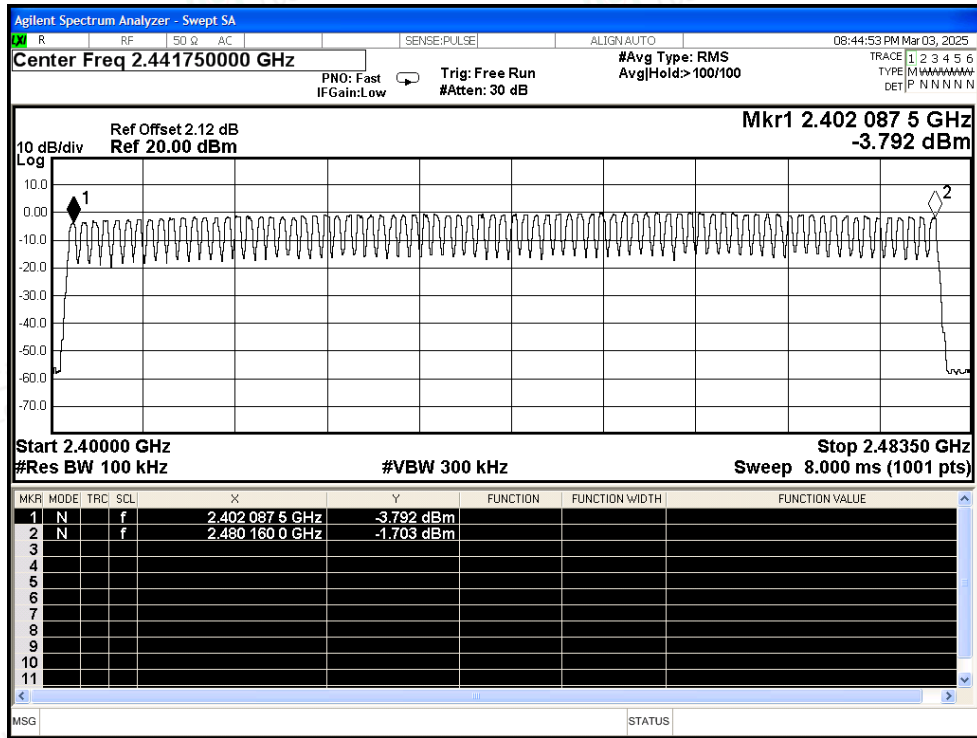


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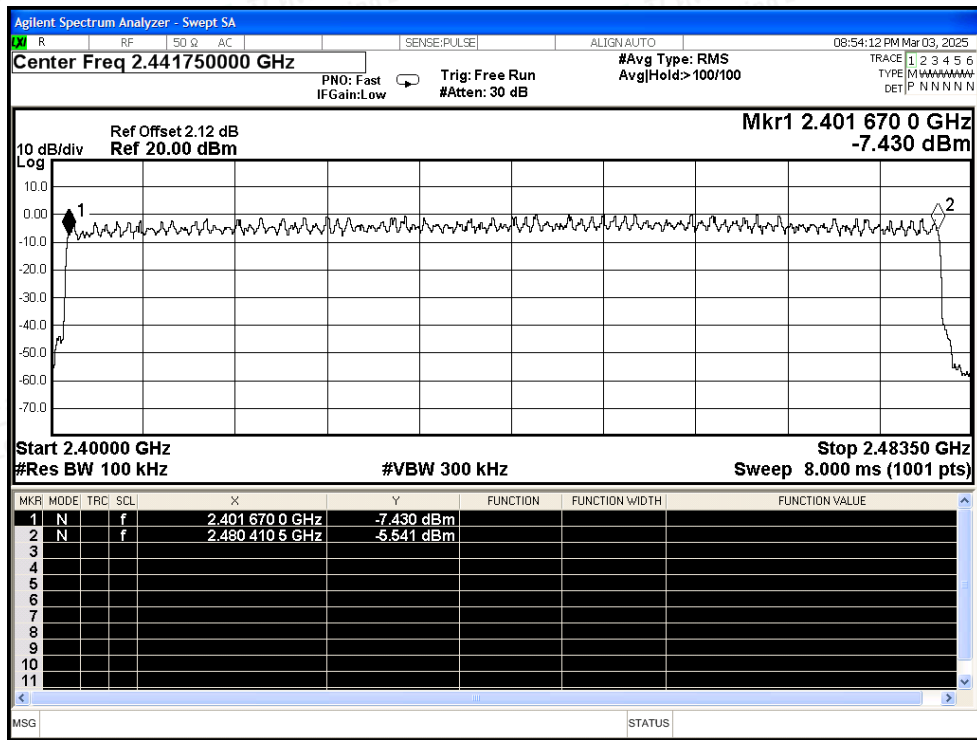


Test Graphs

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	-55.23	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.53	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.68	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.59	-20	Pass

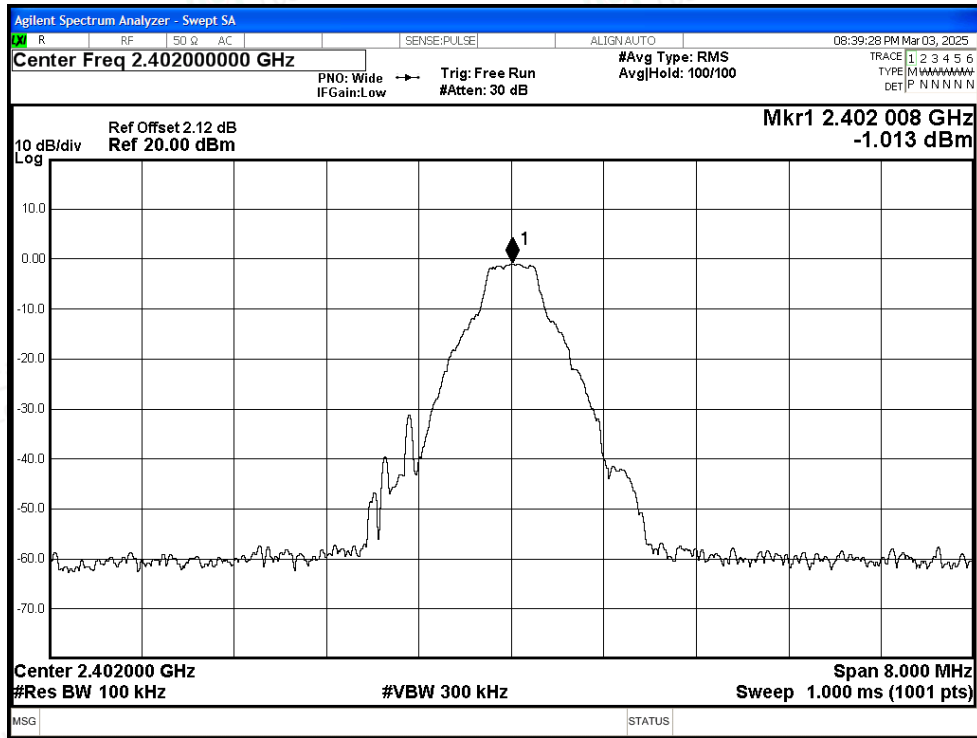


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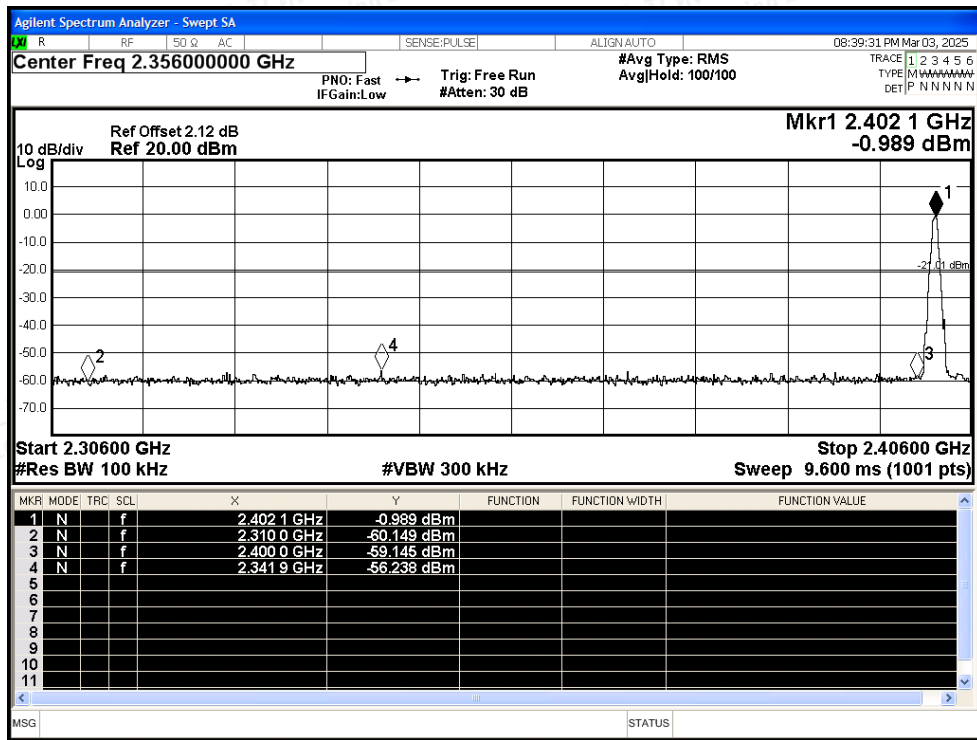


Test Graphs

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

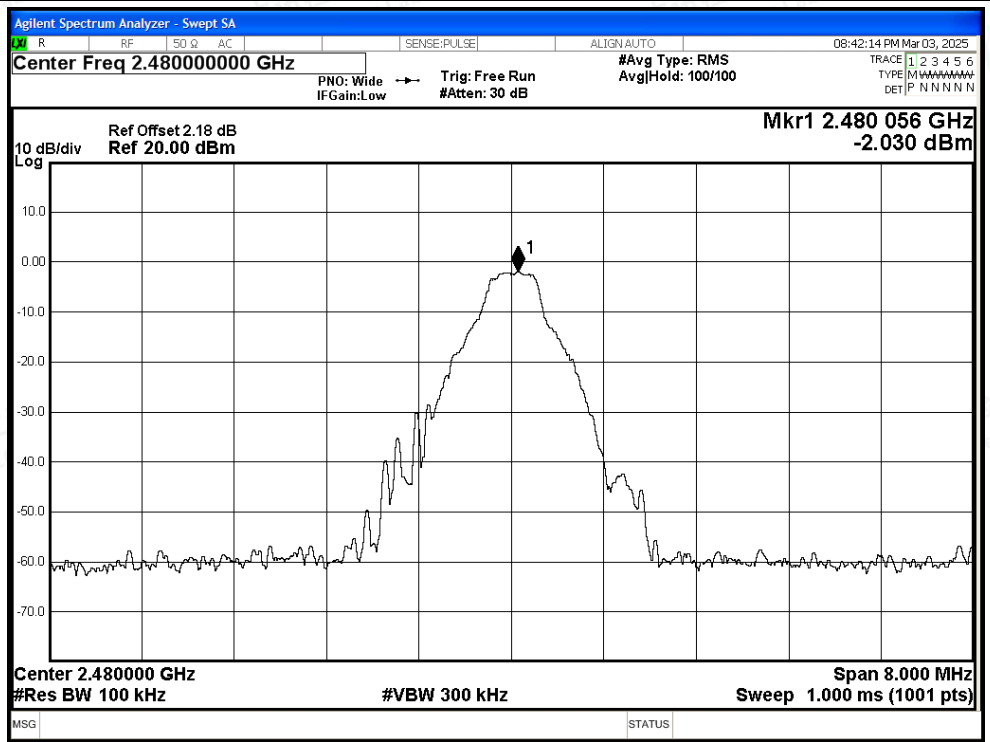


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

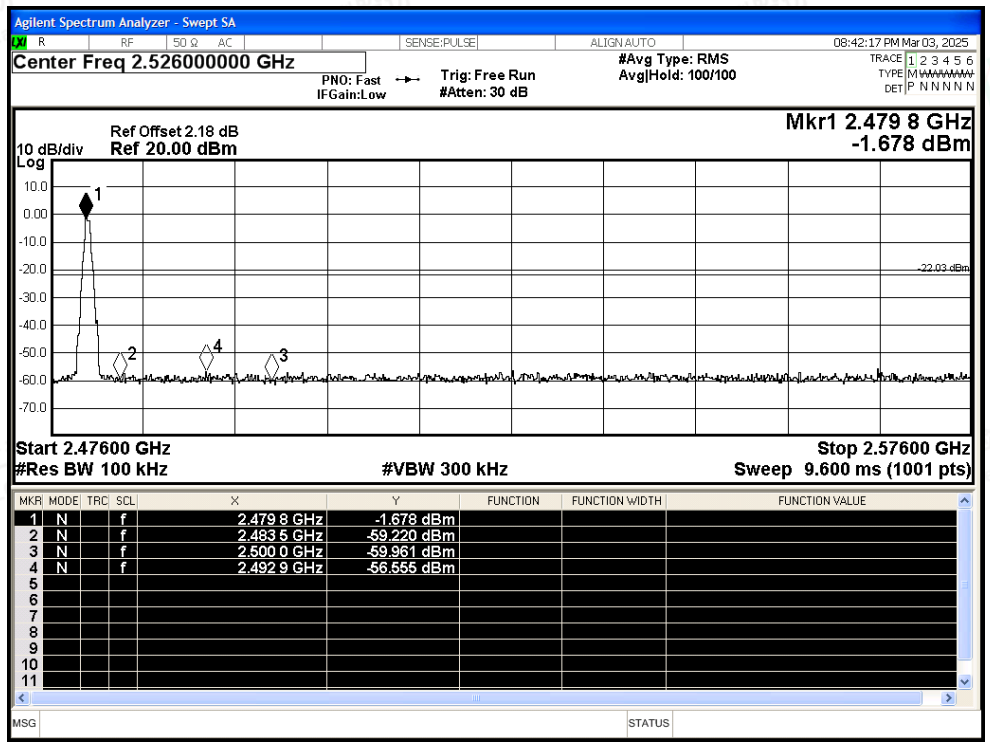




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

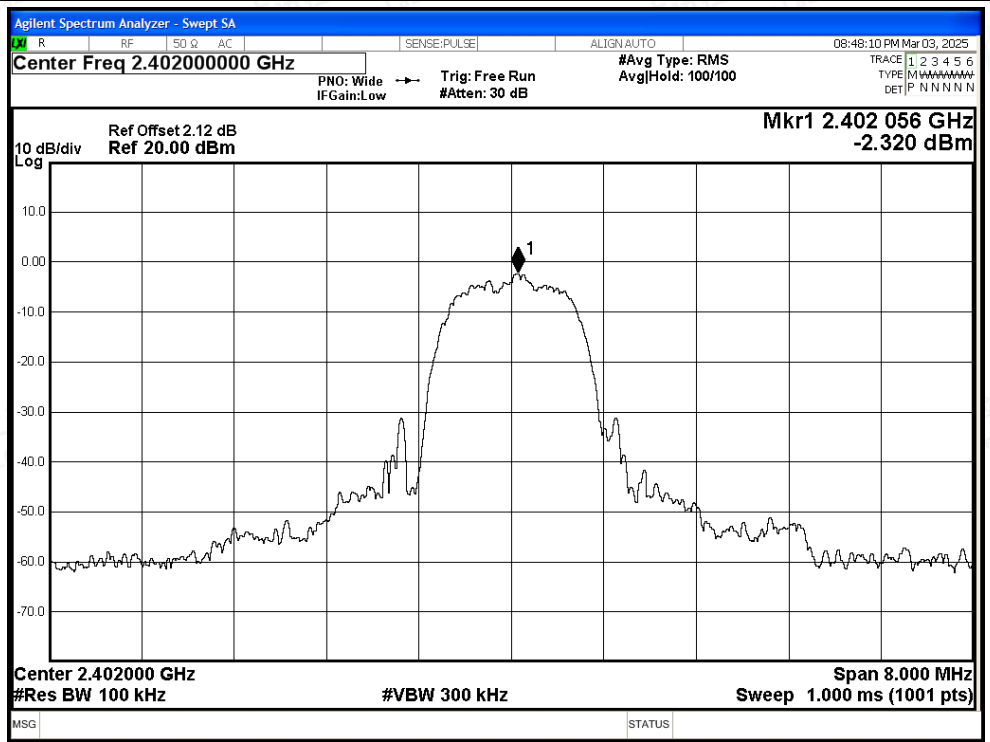


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

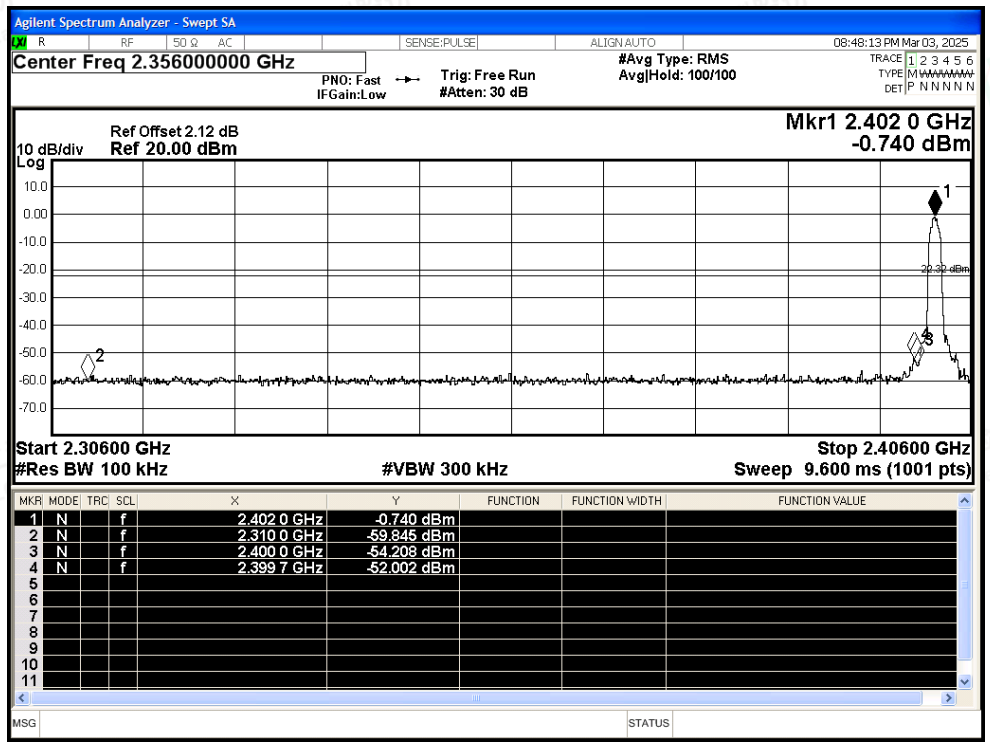




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

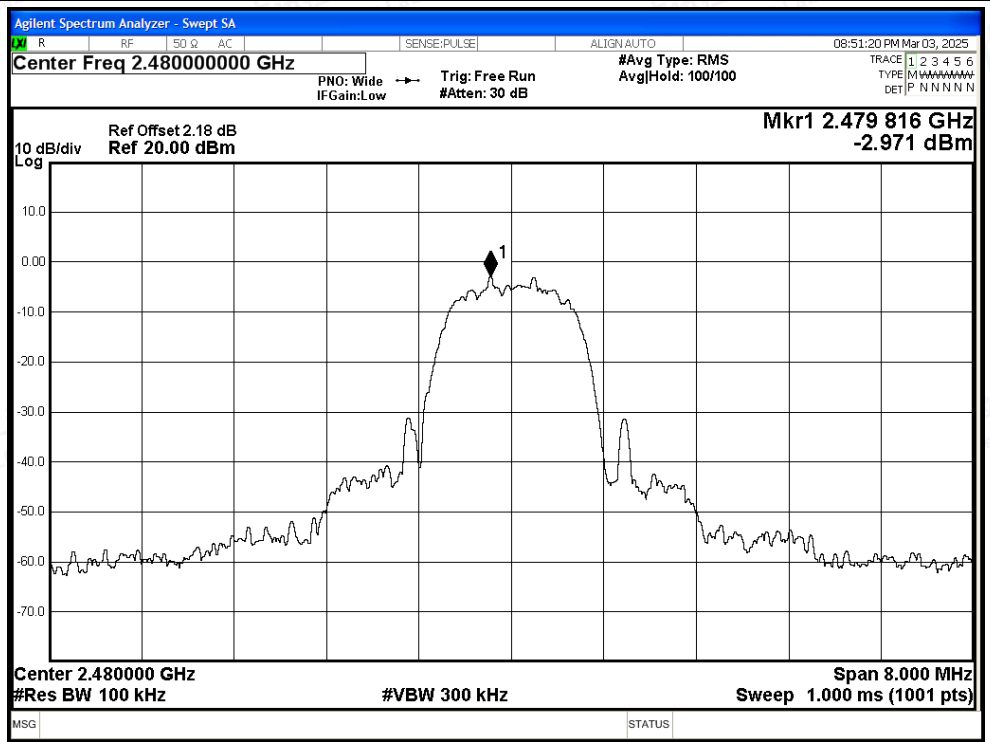


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

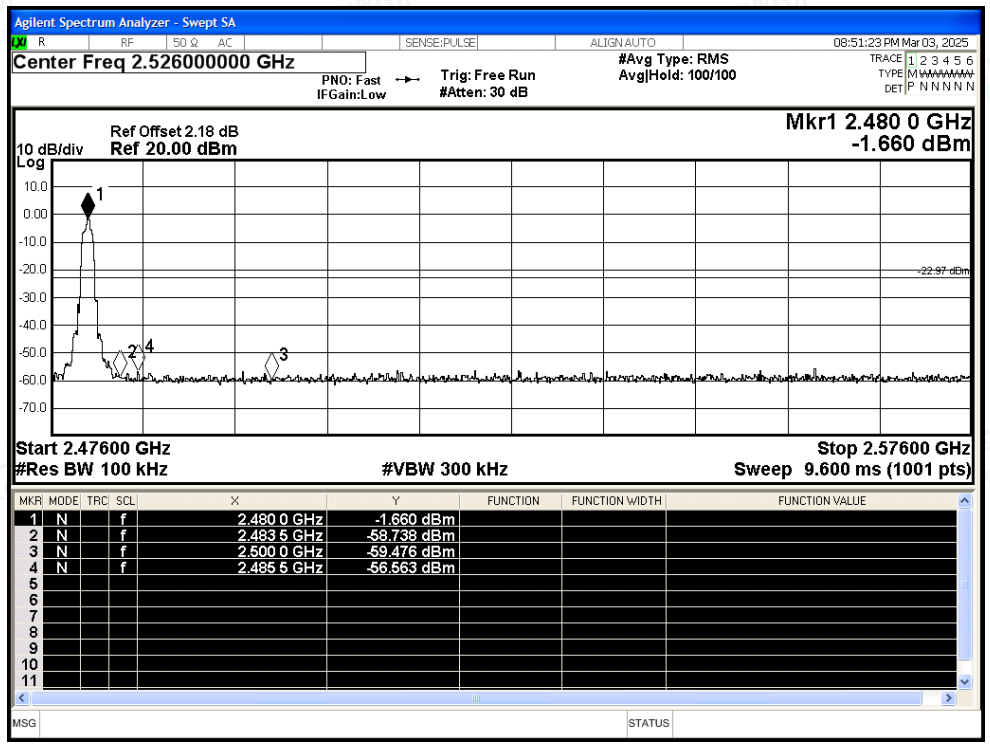




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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	-52.88	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.99	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.43	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.68	-20	Pass

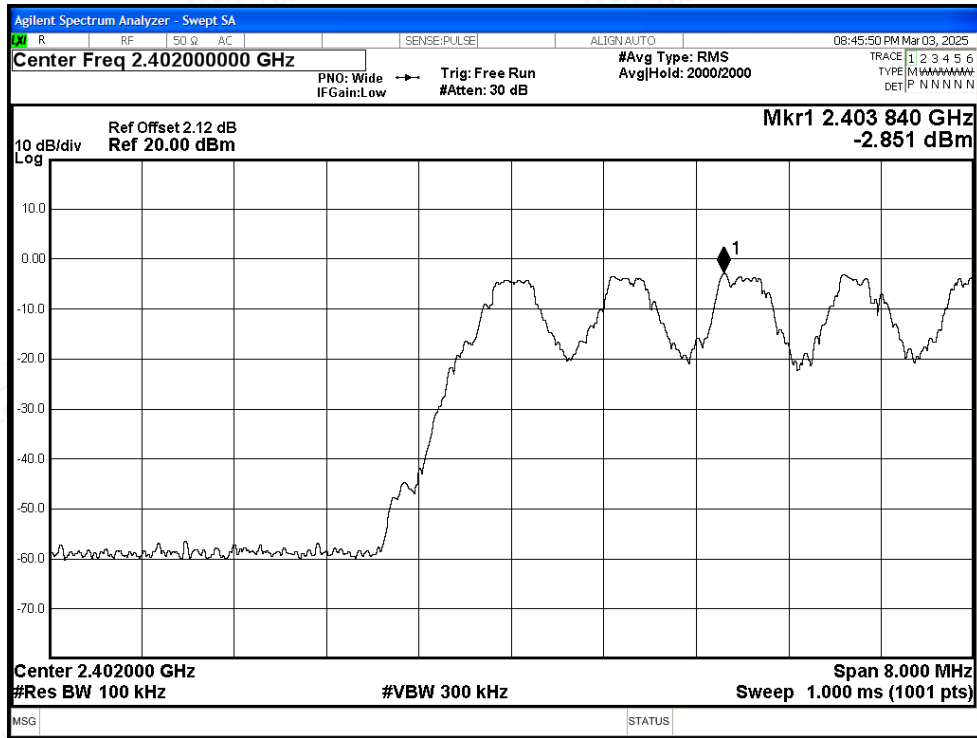


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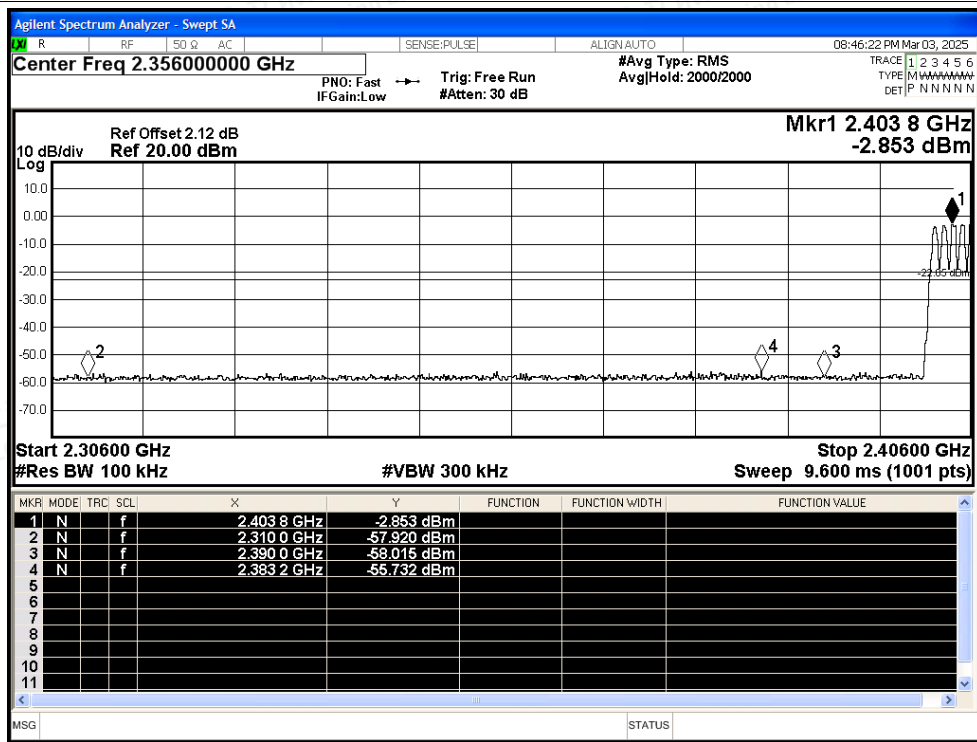


Test Graphs

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

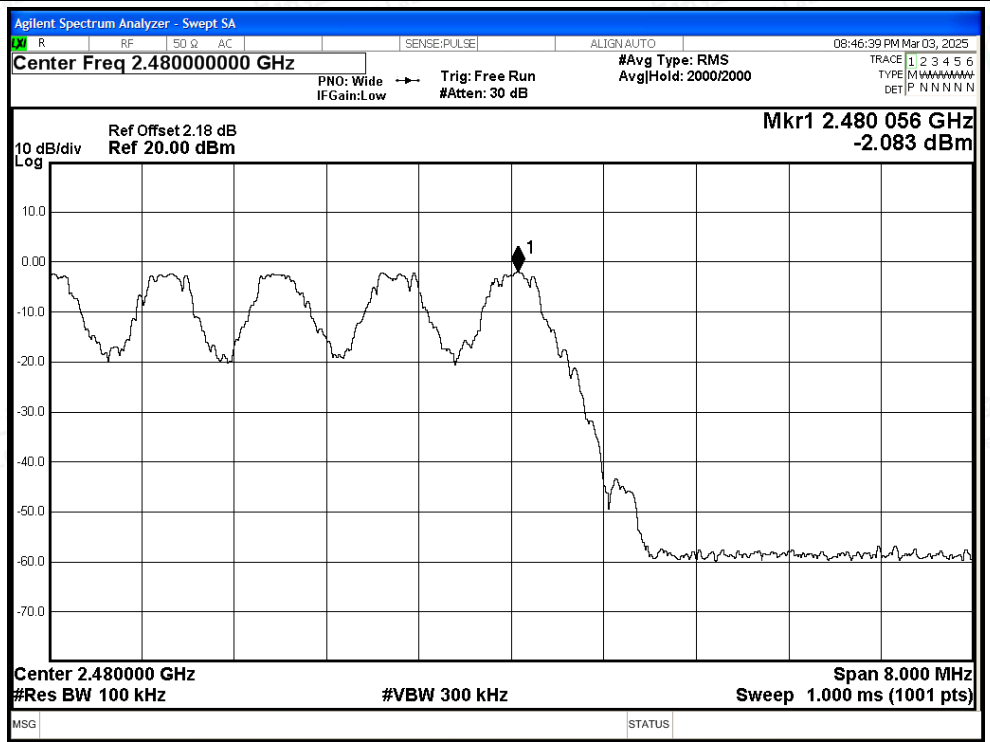


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

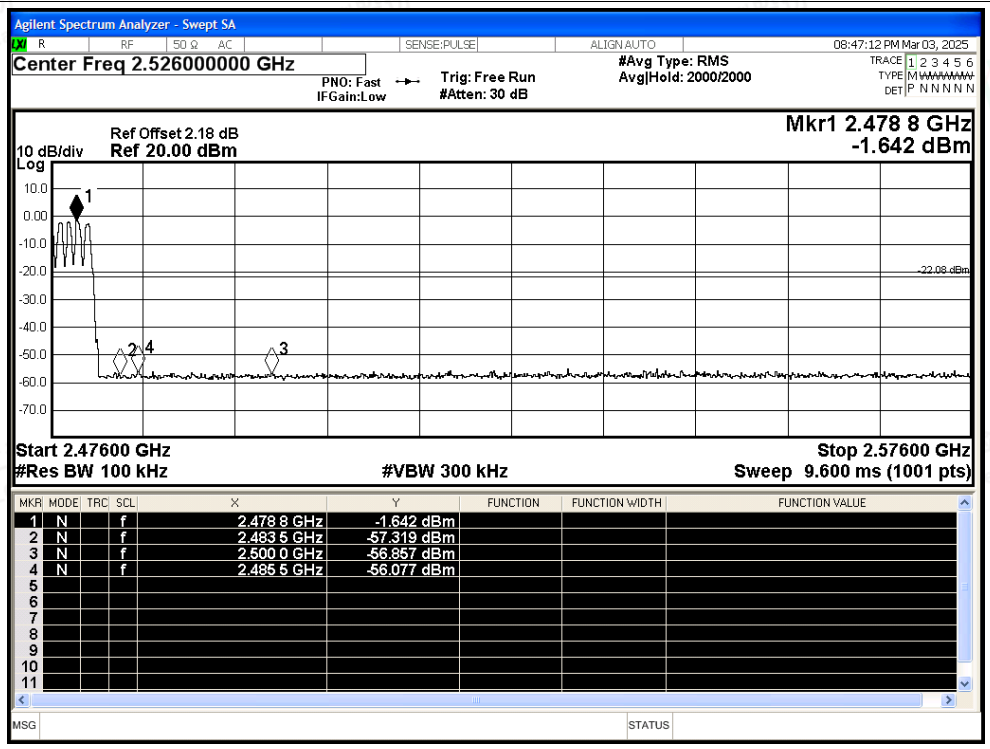




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



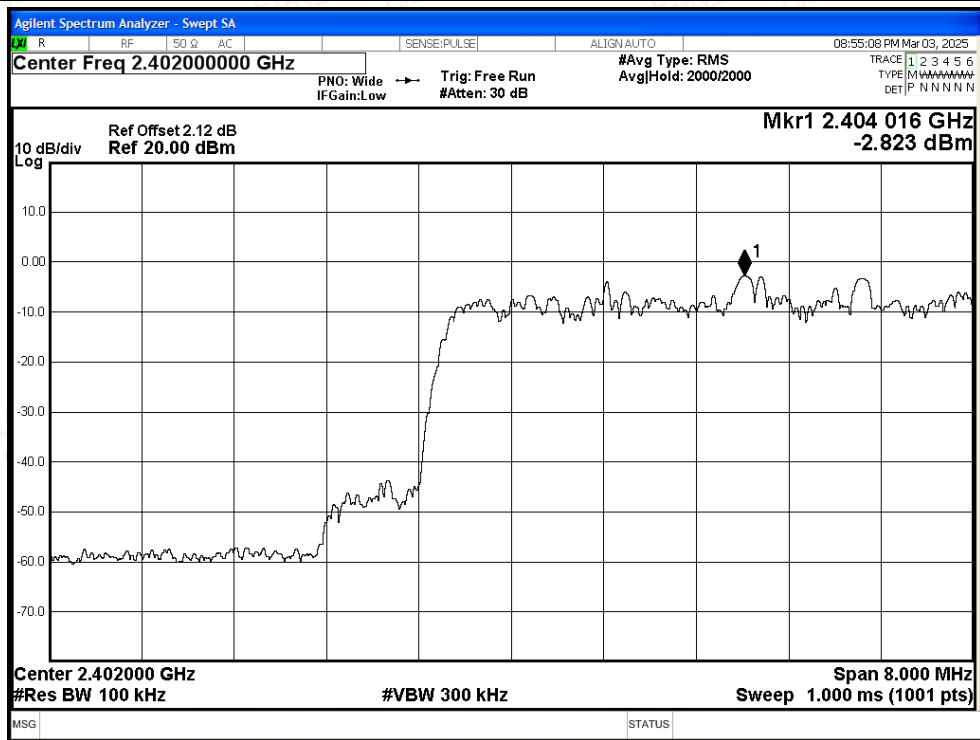
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



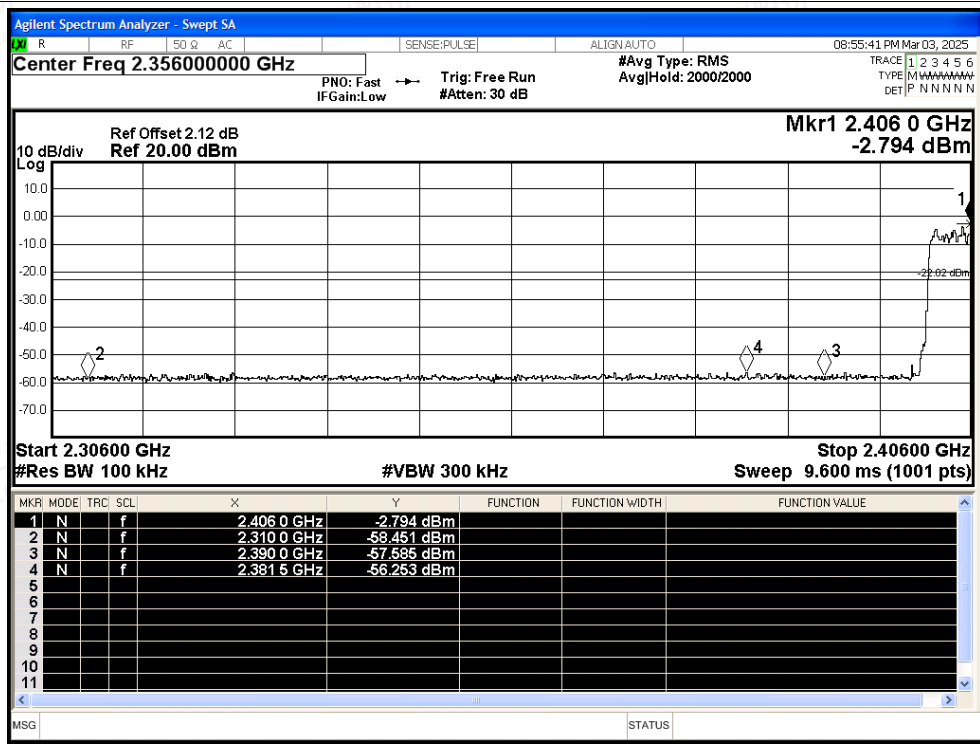




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

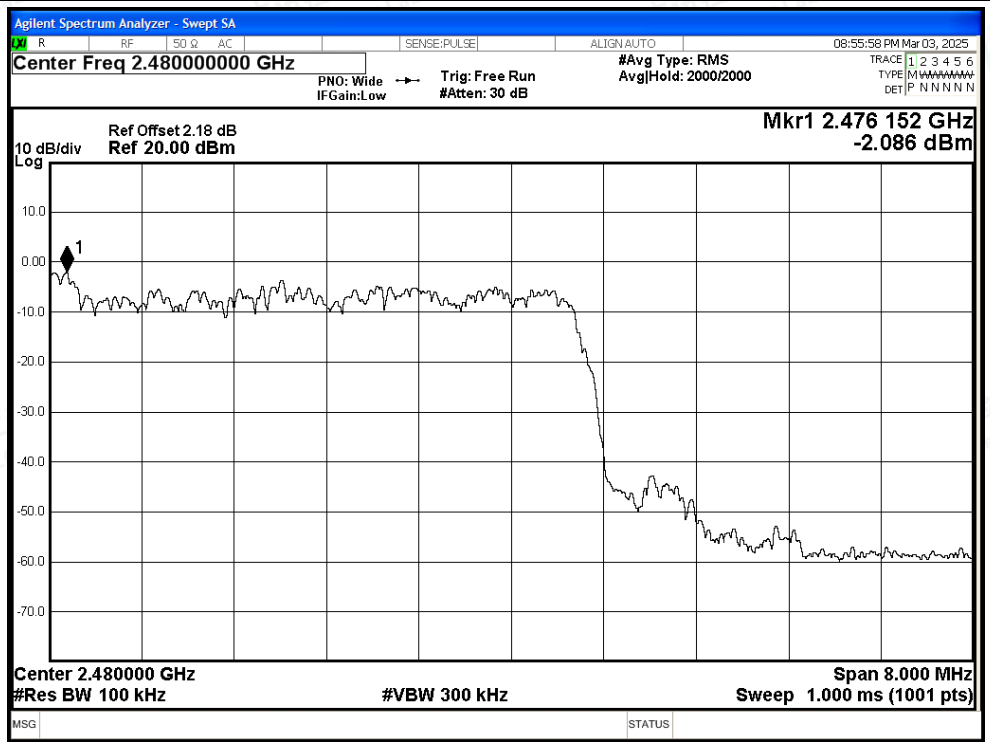


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

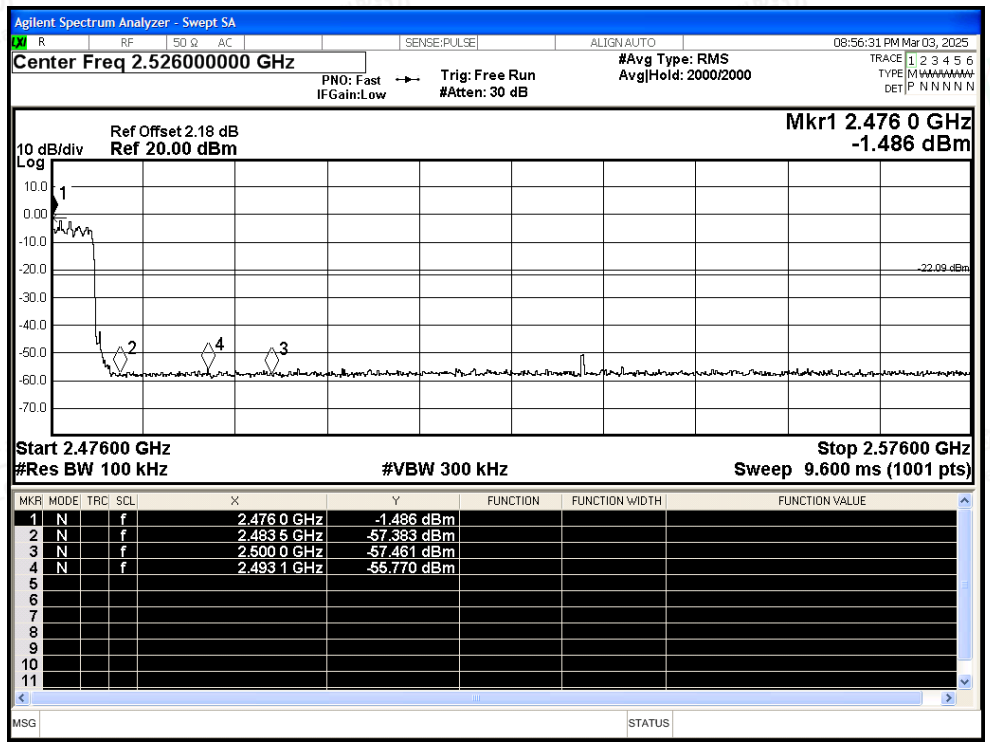




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-54.03	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.61	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.01	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.98	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.05	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.24	-20	Pass

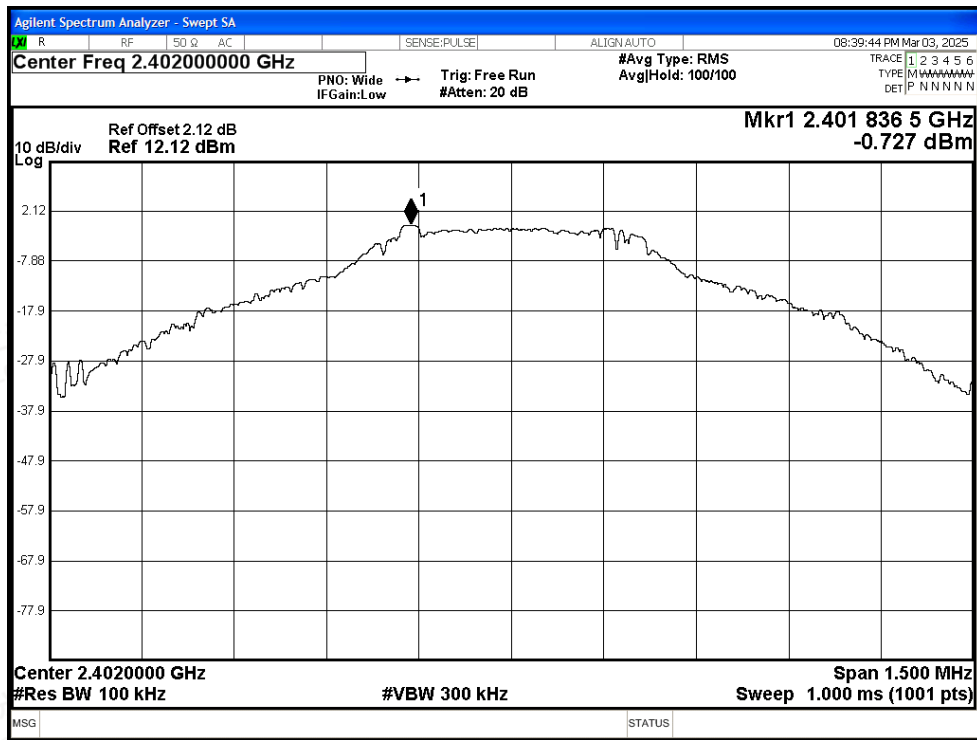


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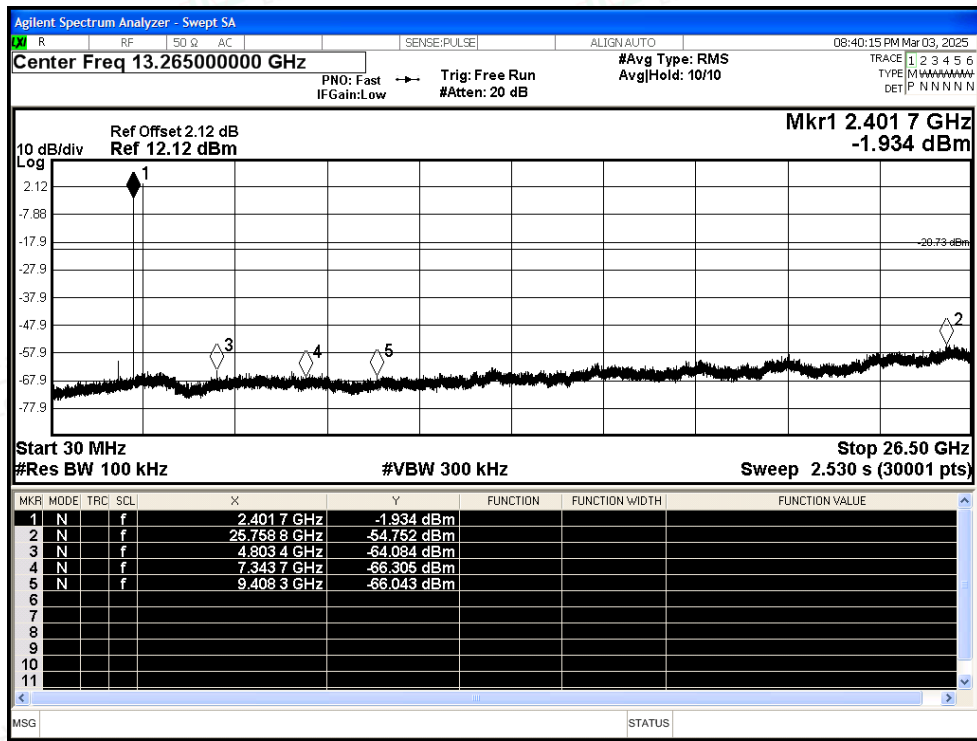


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

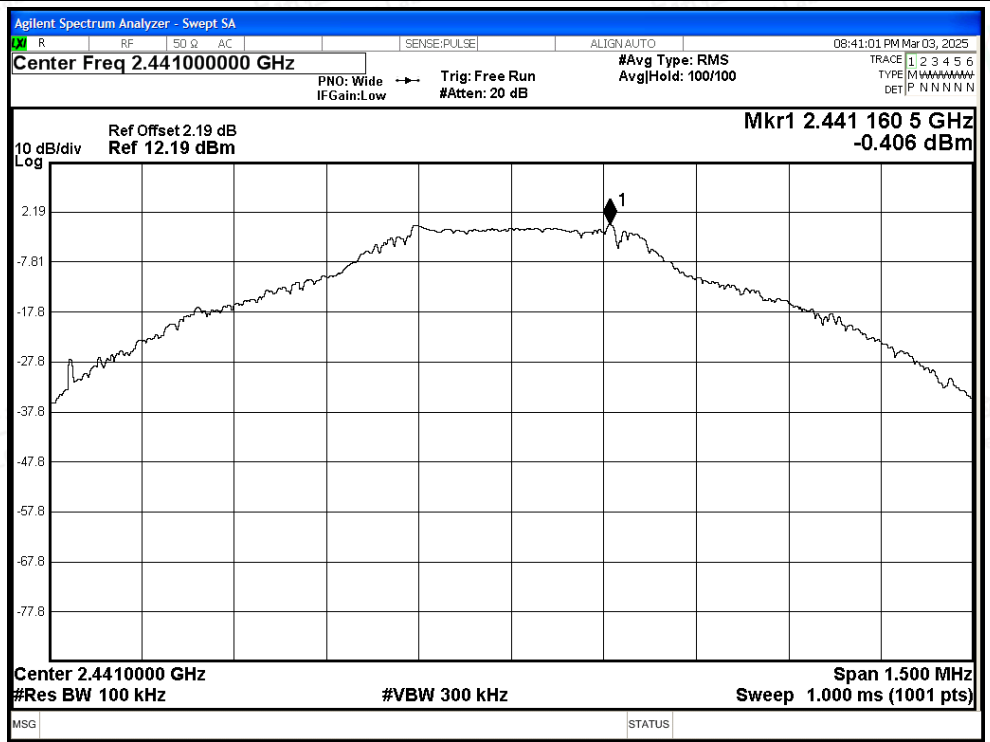


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

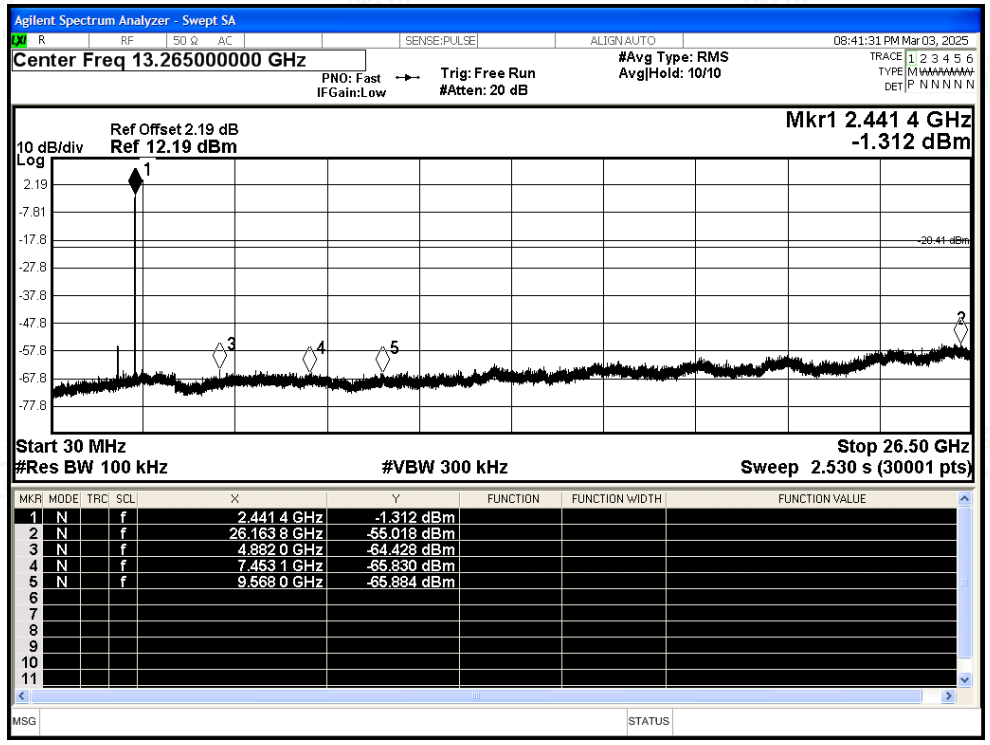




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



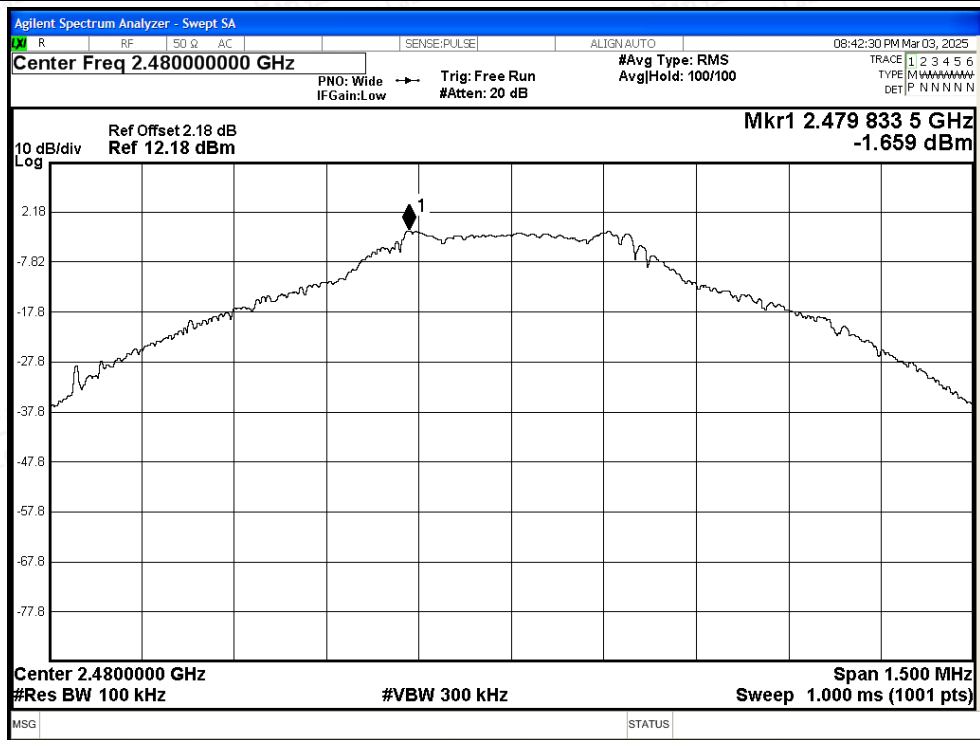
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



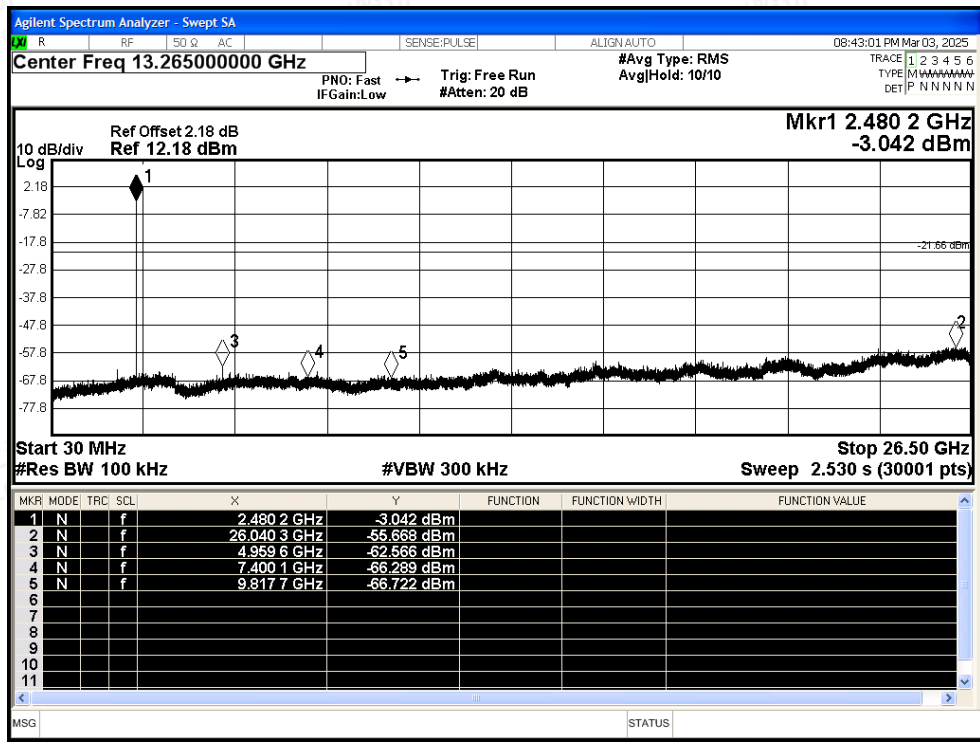
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

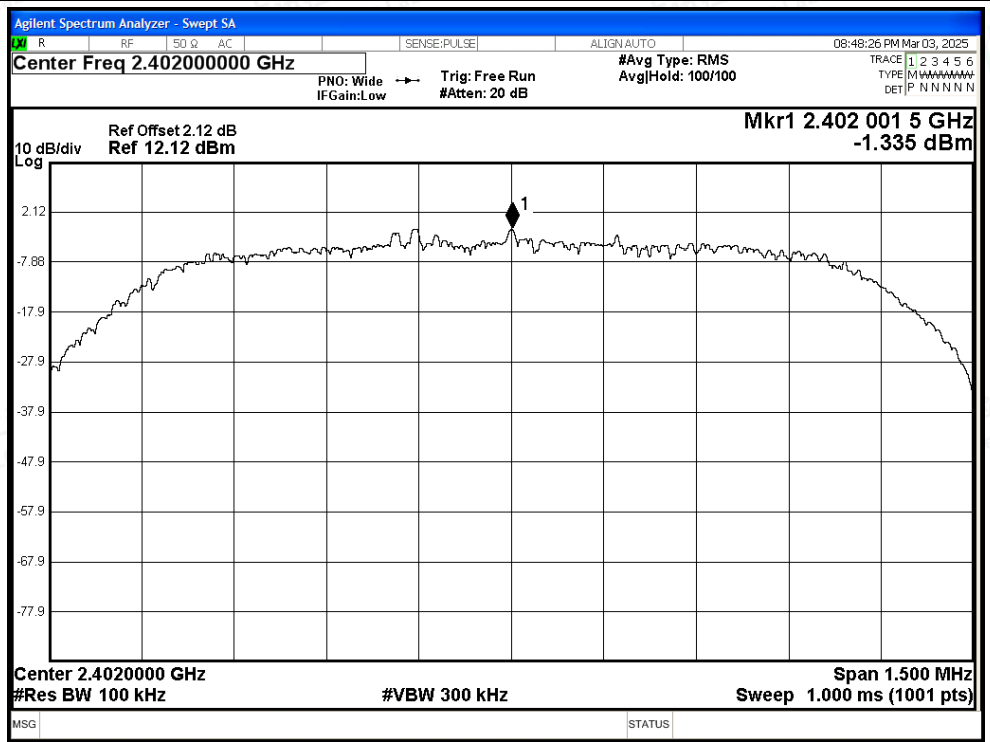


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

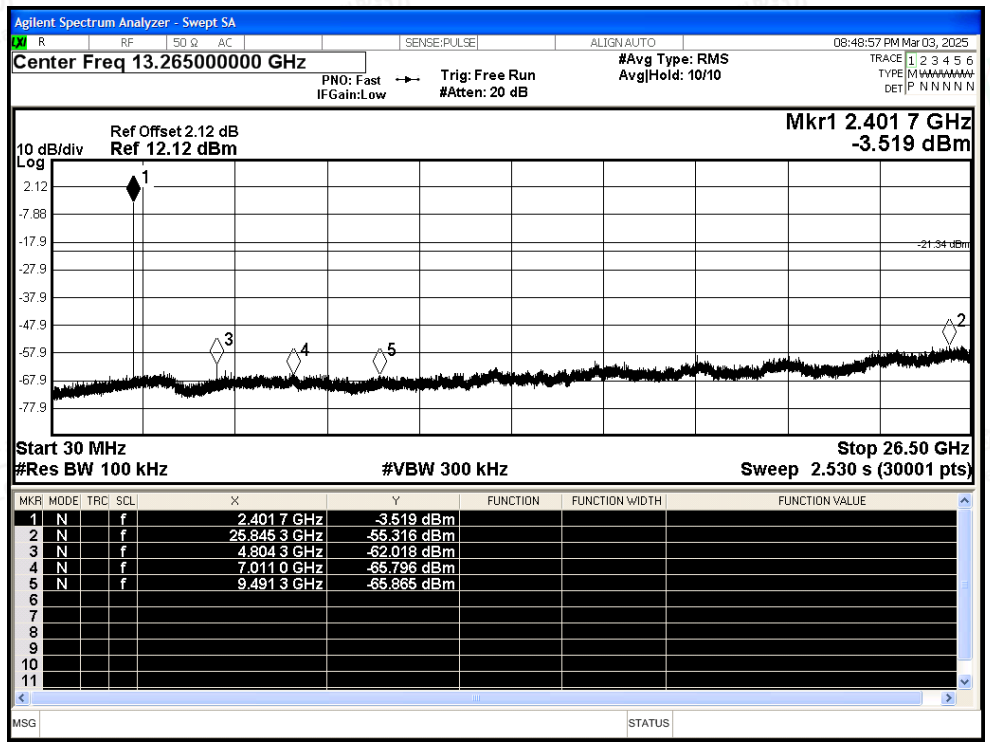




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

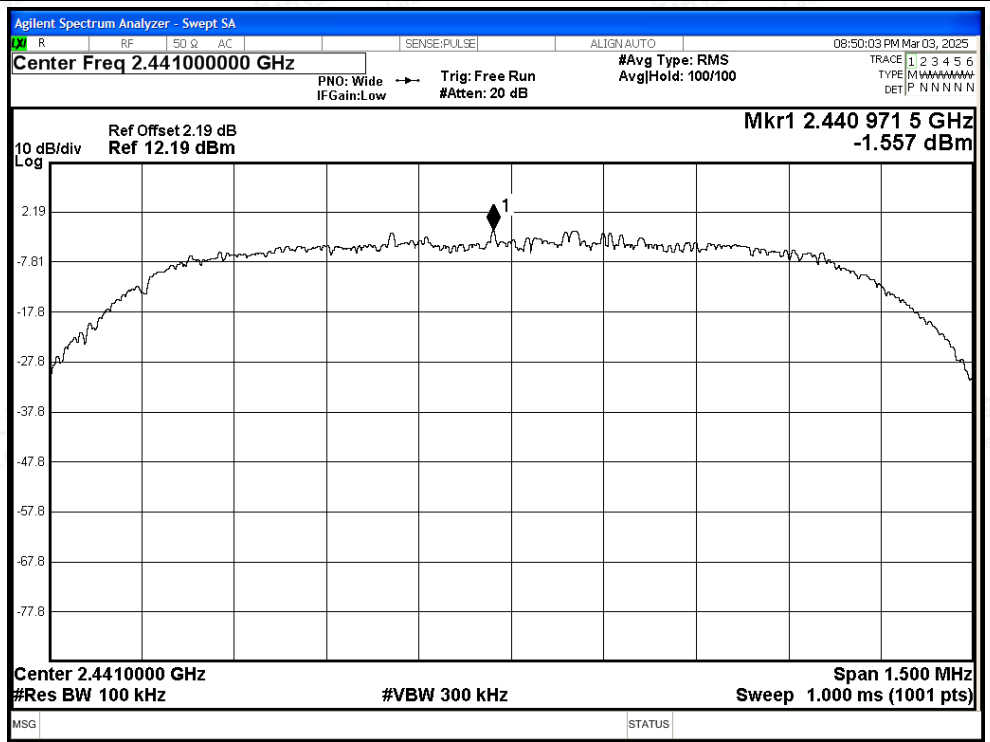


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

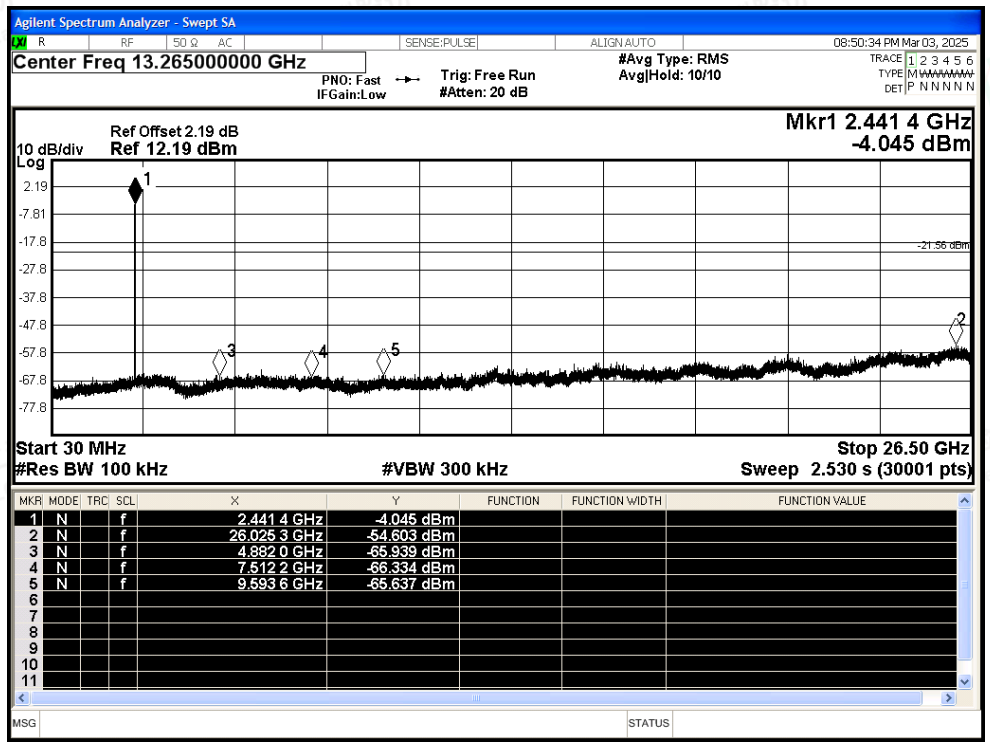




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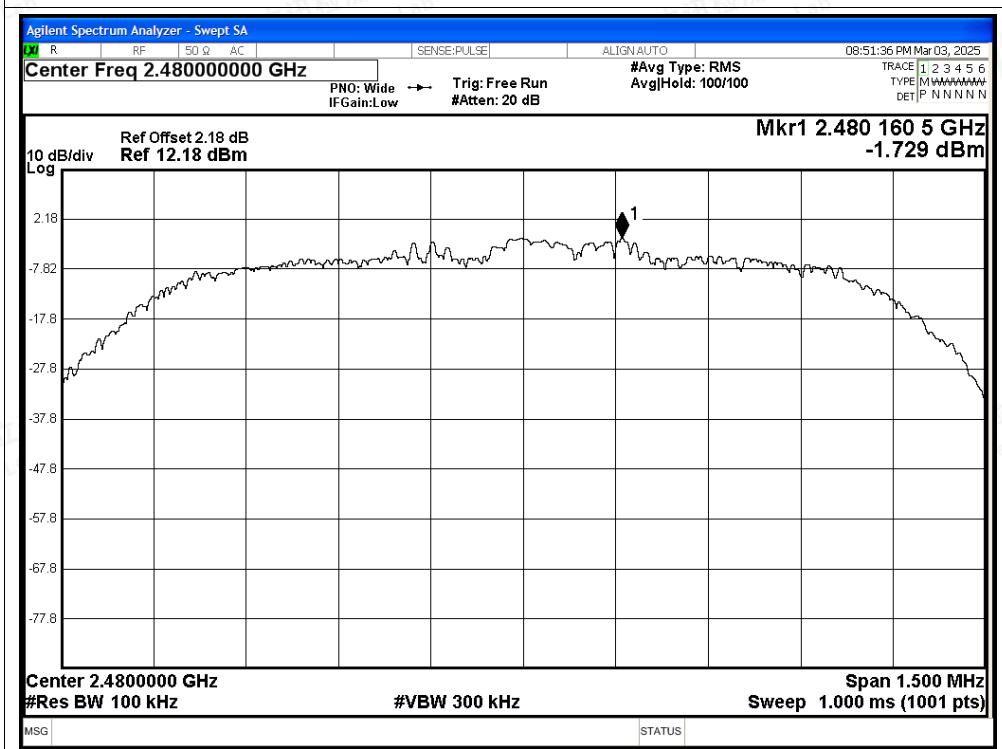
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



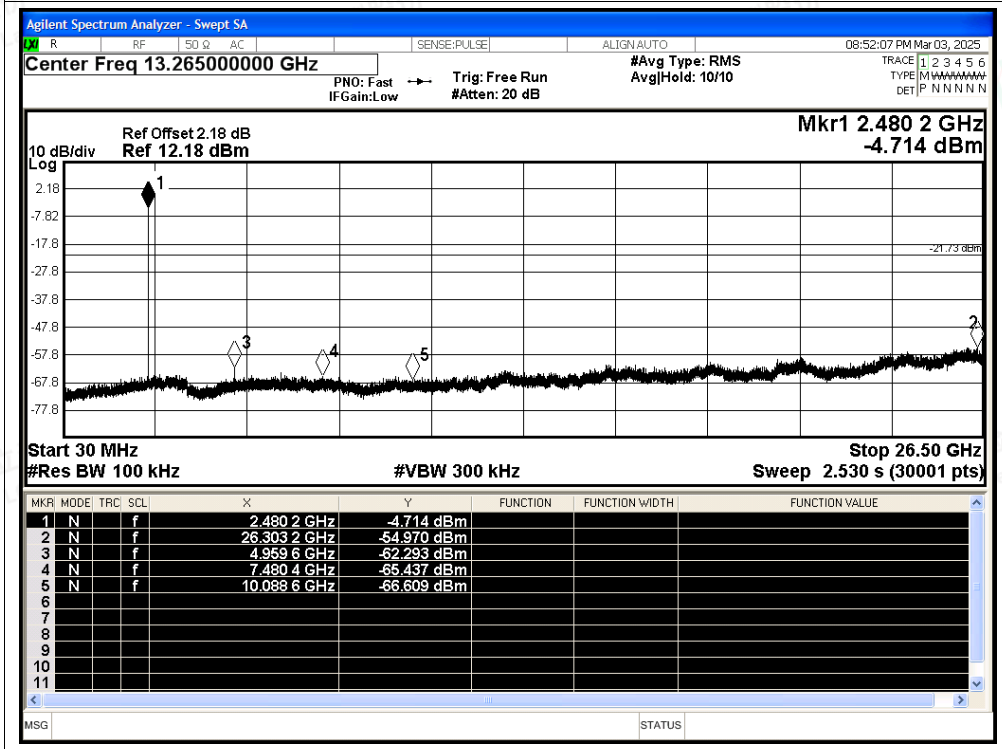




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



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	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

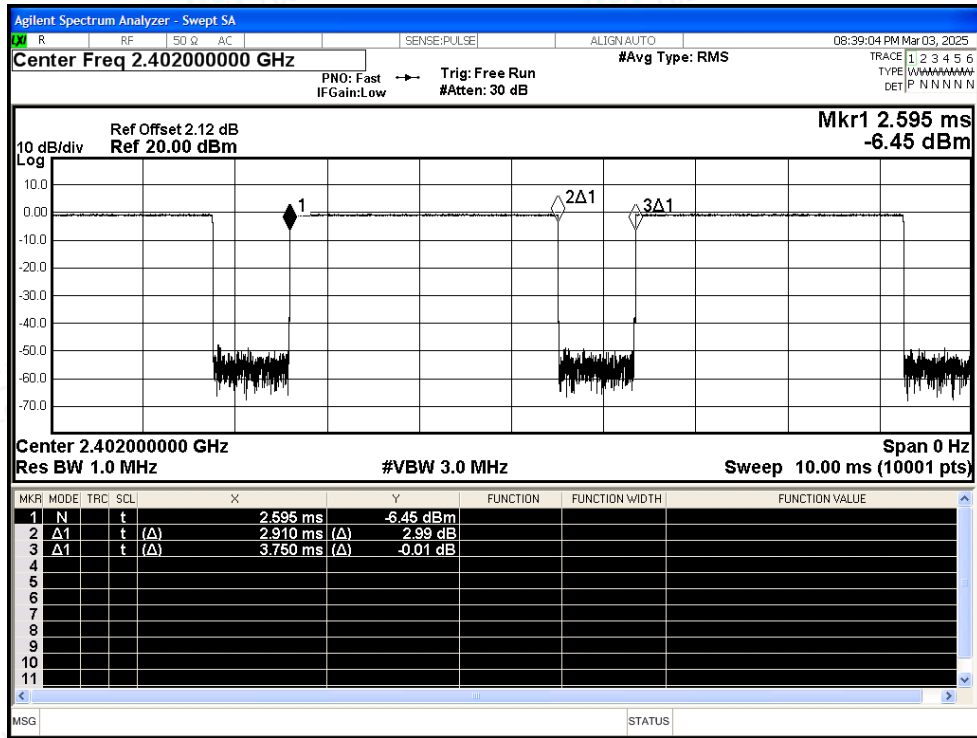


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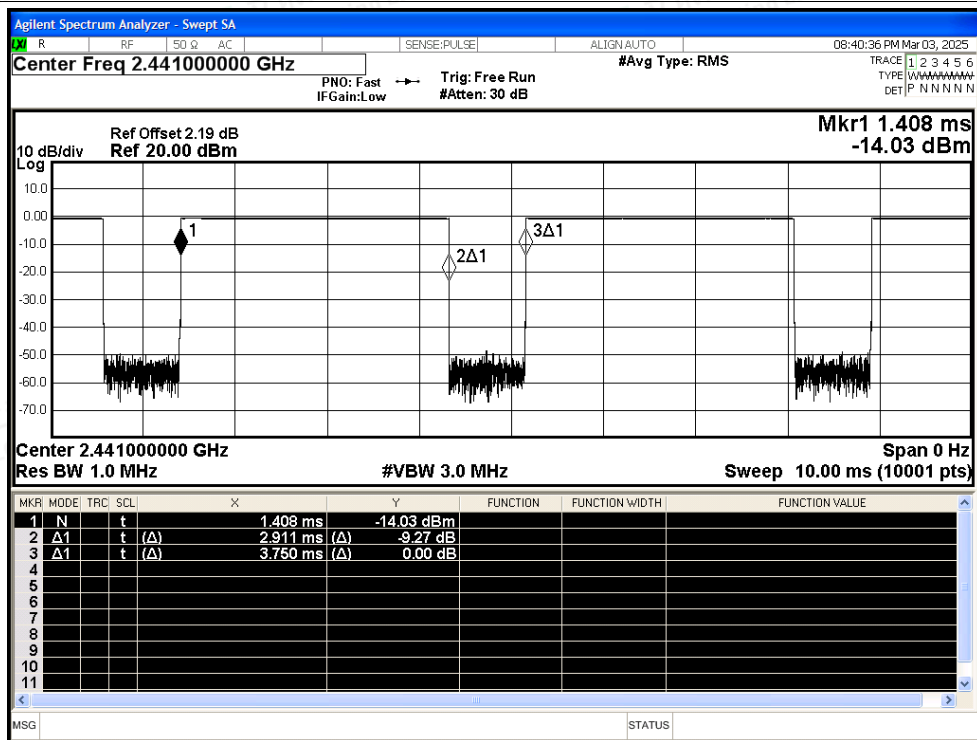


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

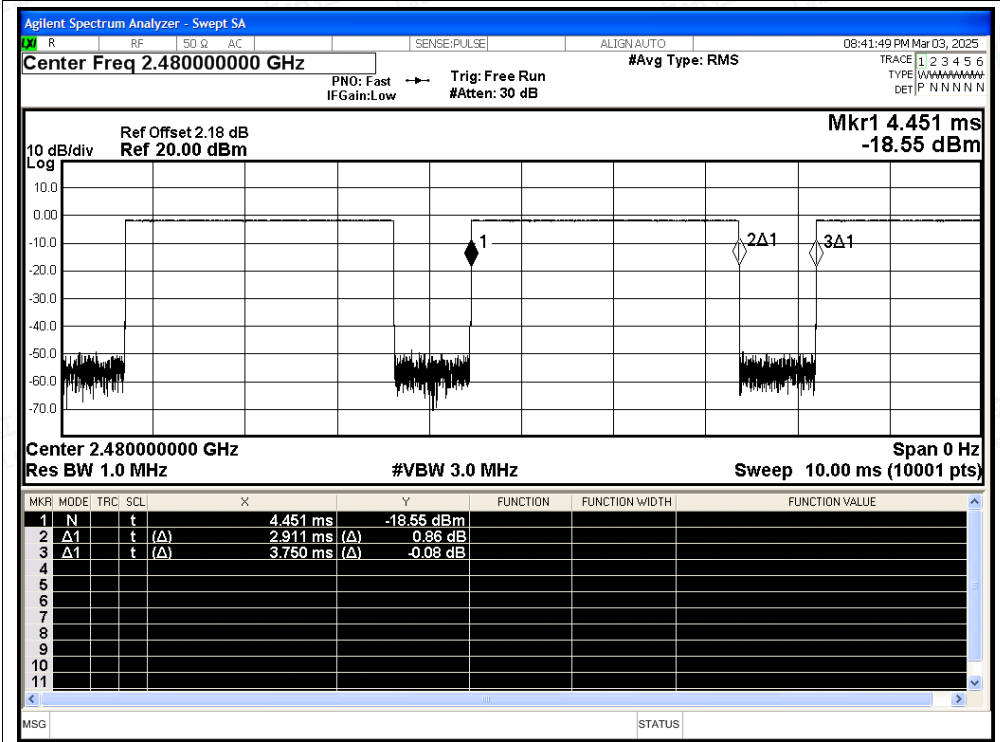


Duty Cycle NVNT 1-DH5 2441MHz Ant1

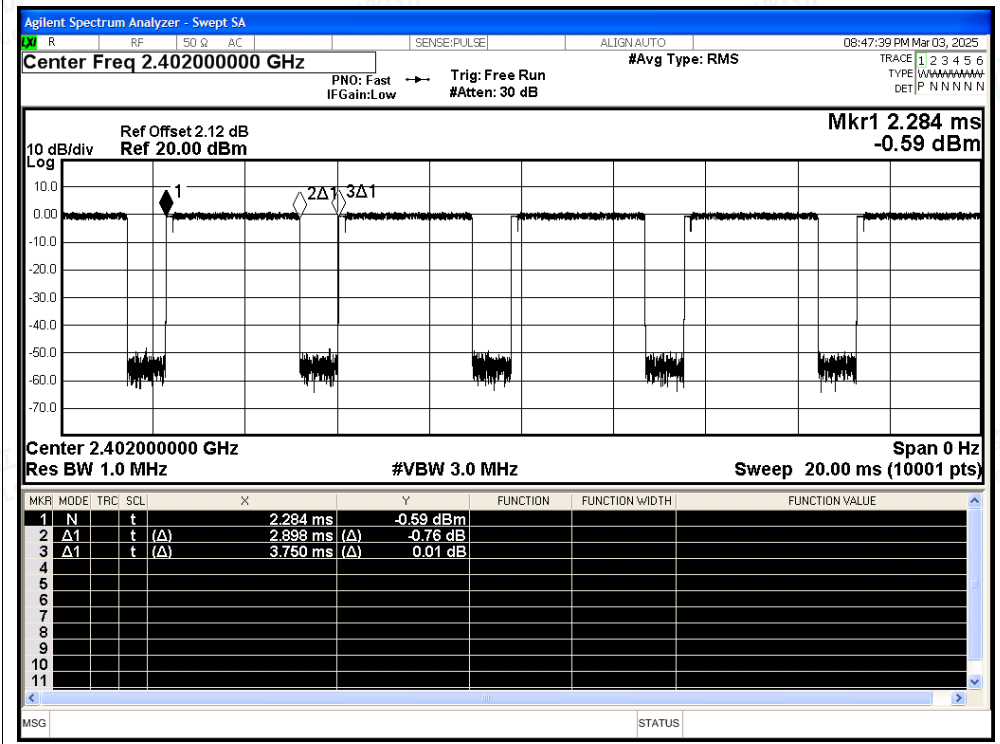




Duty Cycle NVNT 1-DH5 2480MHz Ant1

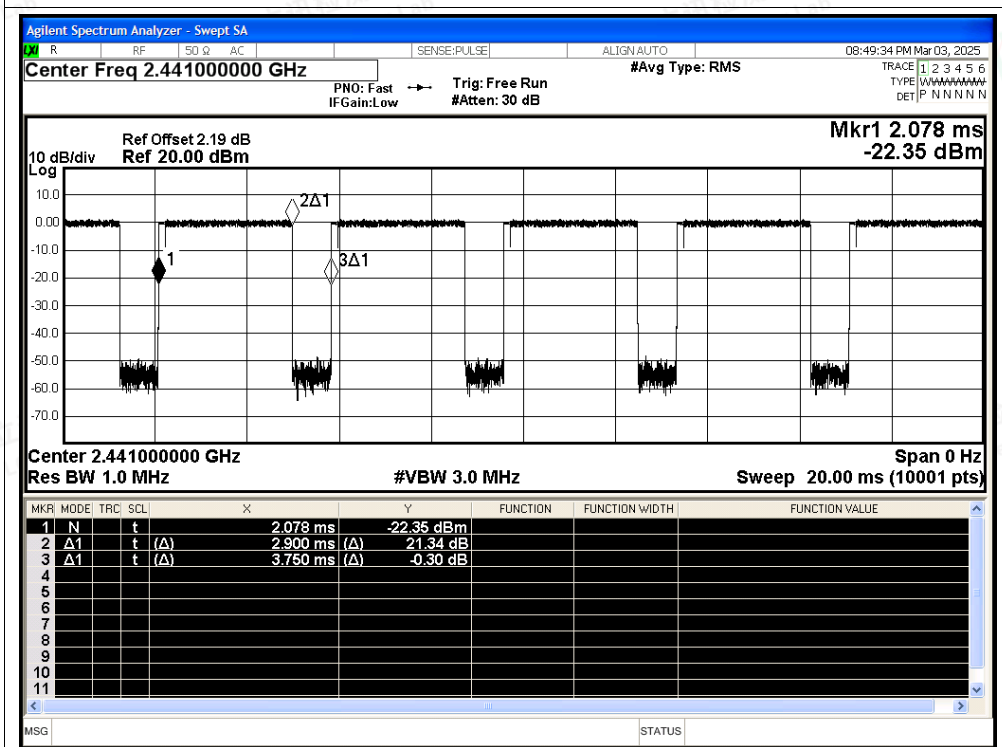


Duty Cycle NVNT 2-DH5 2402MHz Ant1

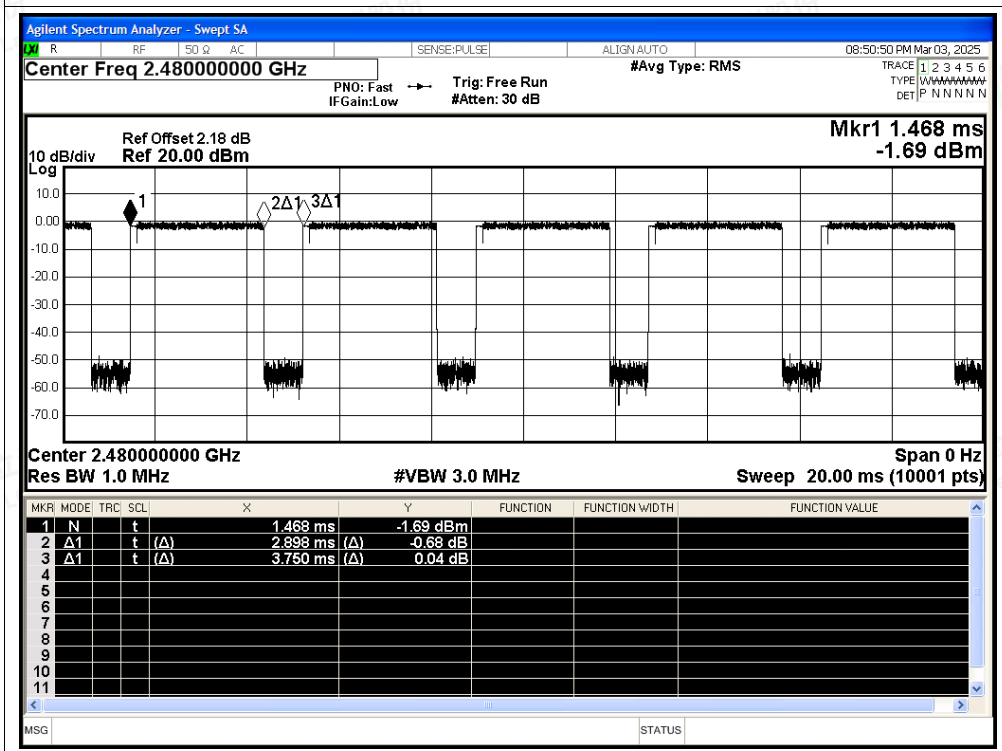




Duty Cycle NVNT 2-DH5 2441MHz Ant1



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	-50.42	2.09	-	46.93	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.65	2.09	1.1	39.80	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.632	-47.25	2.09	-	50.10	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.608	-57.64	2.09	1.1	40.81	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.78	2.09	-	46.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.71	2.09	1.1	40.74	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.09	2.09	-	48.26	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.57	2.09	1.1	40.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.576	-46.34	2.09	-	51.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.904	-56.74	2.09	1.1	41.71	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.79	2.09	-	47.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.94	2.09	1.1	40.51	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.41	2.09	-	45.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.61	2.09	1.12	39.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.24	-47.4	2.09	-	49.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.408	-57.57	2.09	1.12	40.90	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.33	2.09	-	48.02	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.82	2.09	1.12	40.65	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.07	2.09	-	49.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.23	2.09	1.12	41.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.864	-45.73	2.09	-	51.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.592	-57.05	2.09	1.12	41.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.33	2.09	-	46.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.22	2.09	1.12	40.25	Average	54	Pass

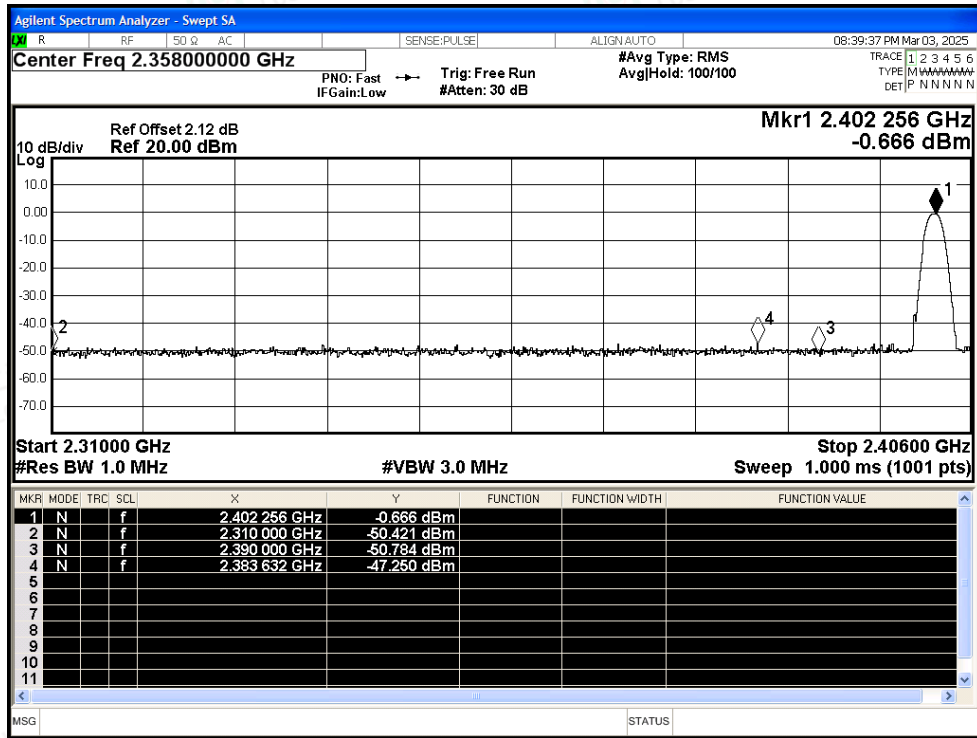


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 Scan code to check authenticity

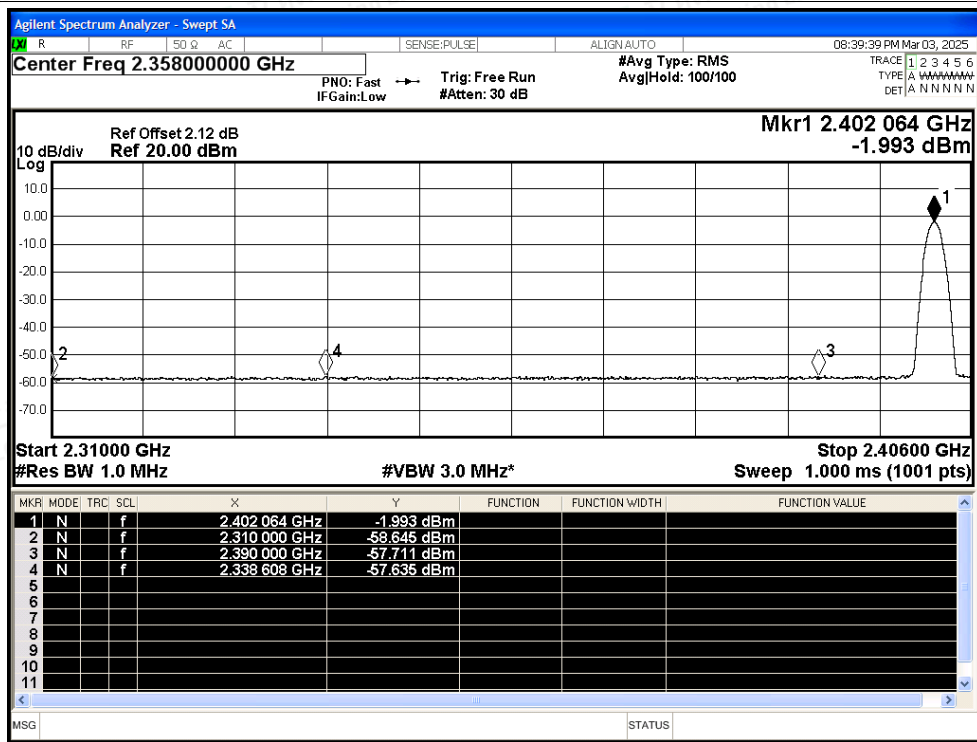


Test Graphs

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



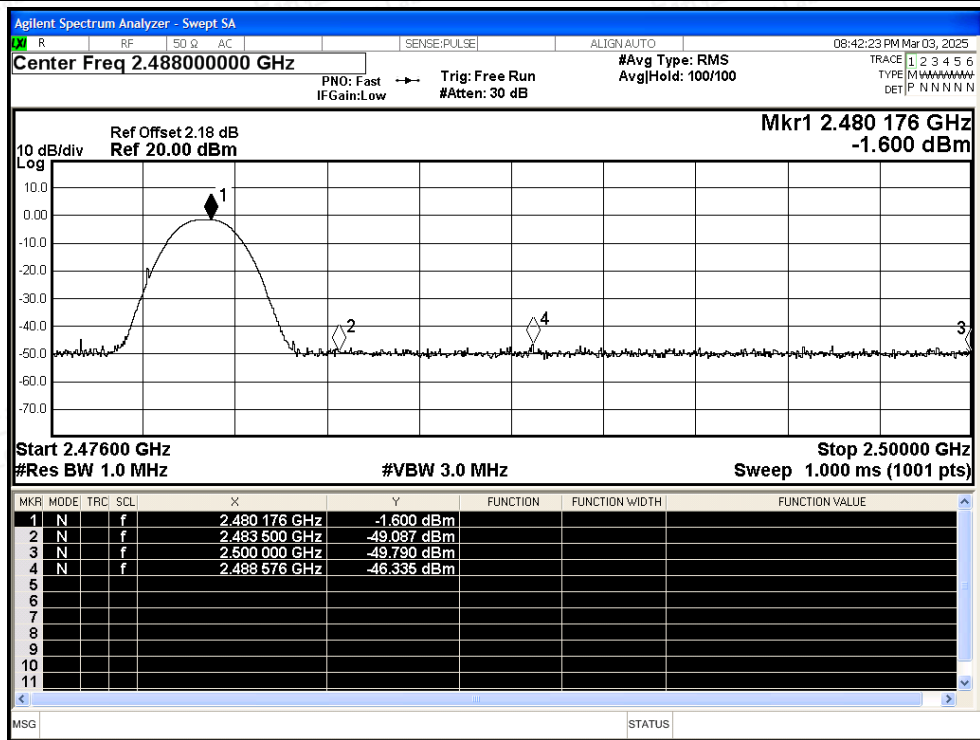
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



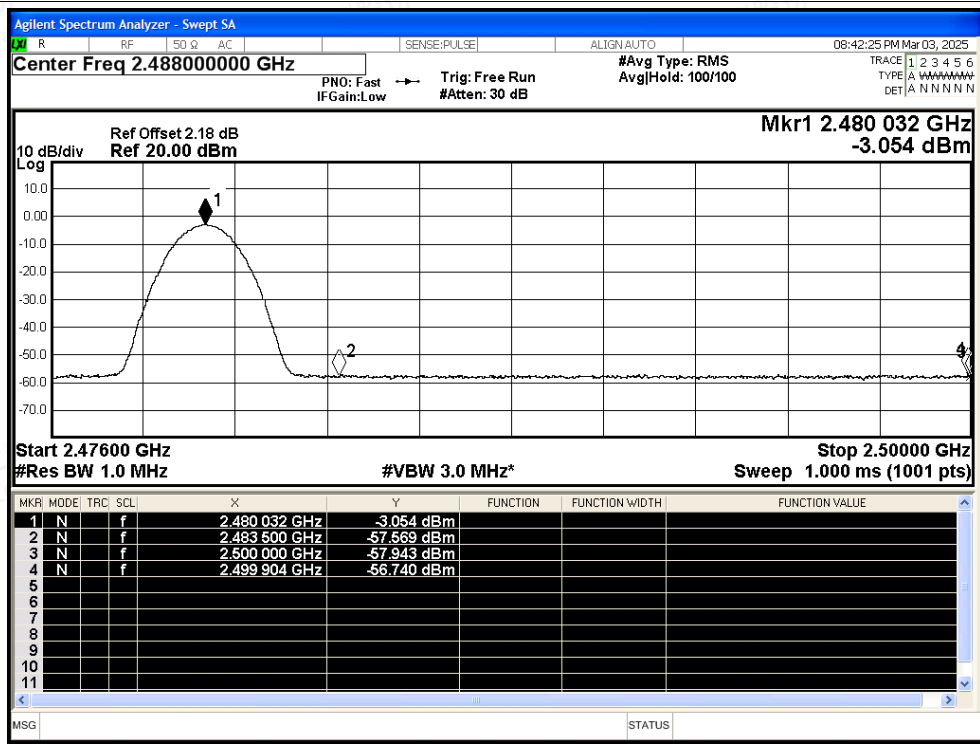




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



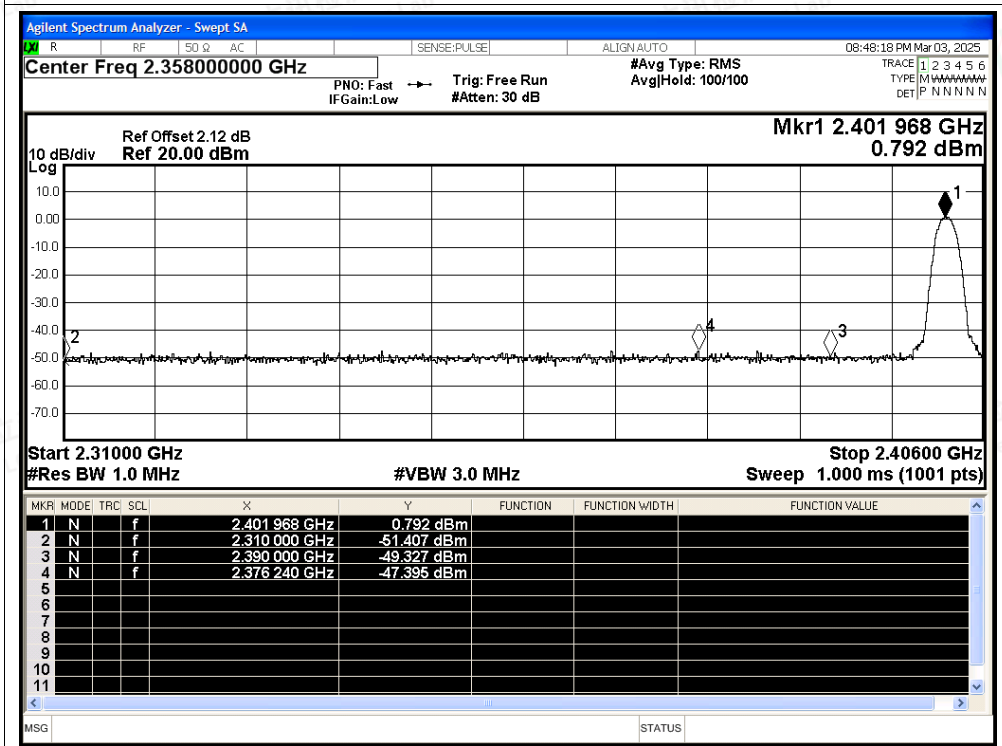
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



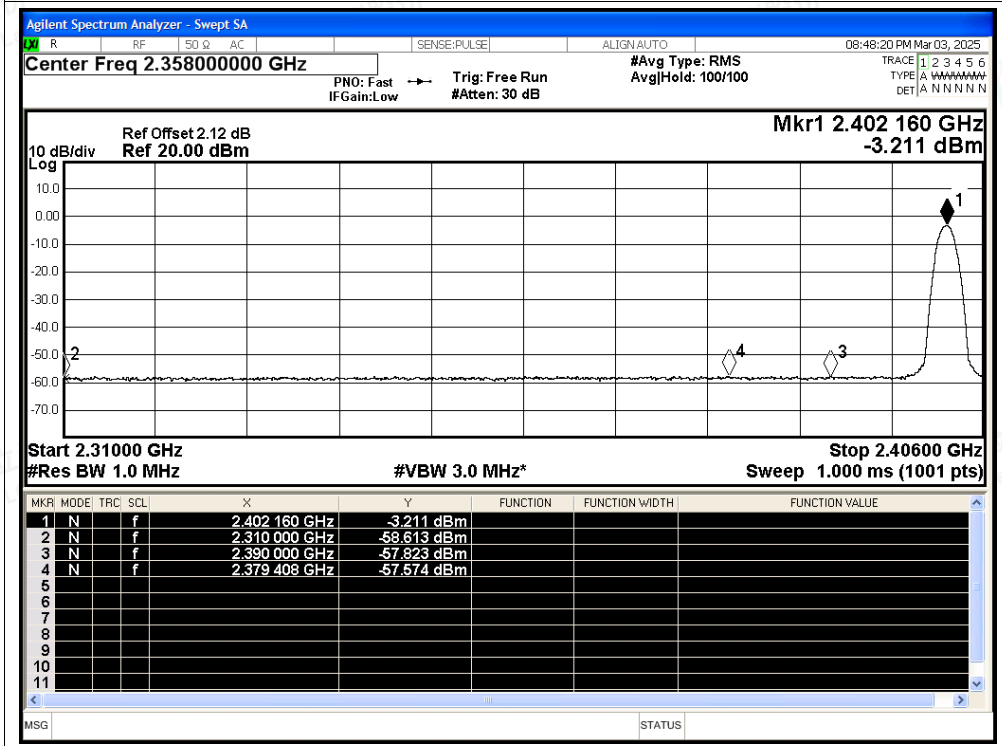




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

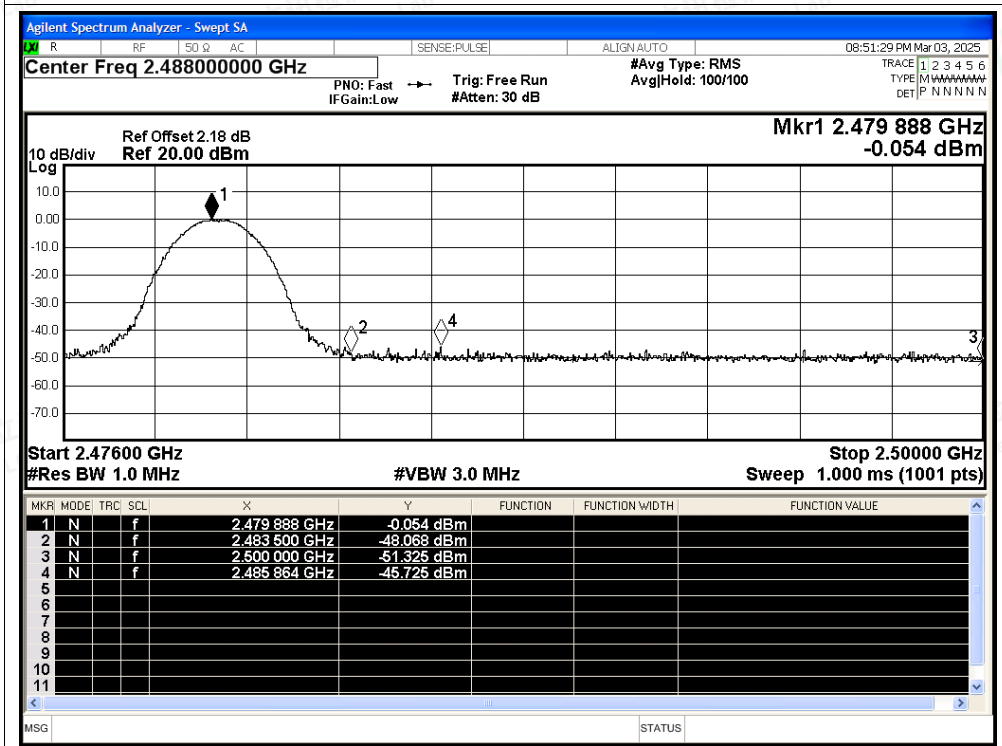


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

