



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TREADMILL

Test Model: AHAA001

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
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	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.95	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.97	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.307	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.277	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.278	N/A	Pass

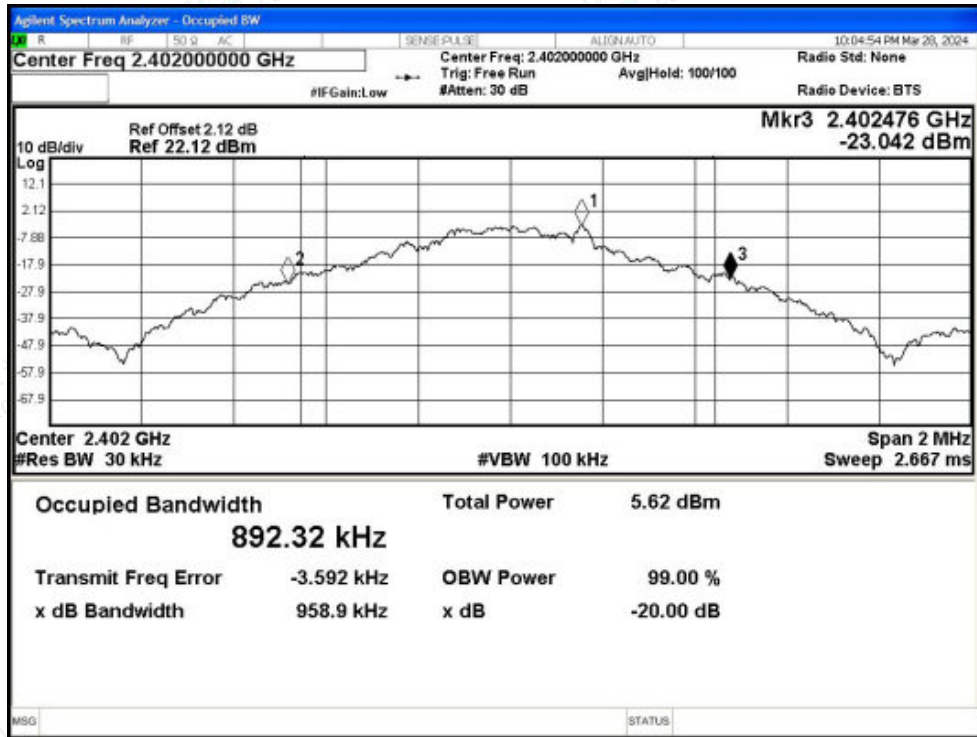


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

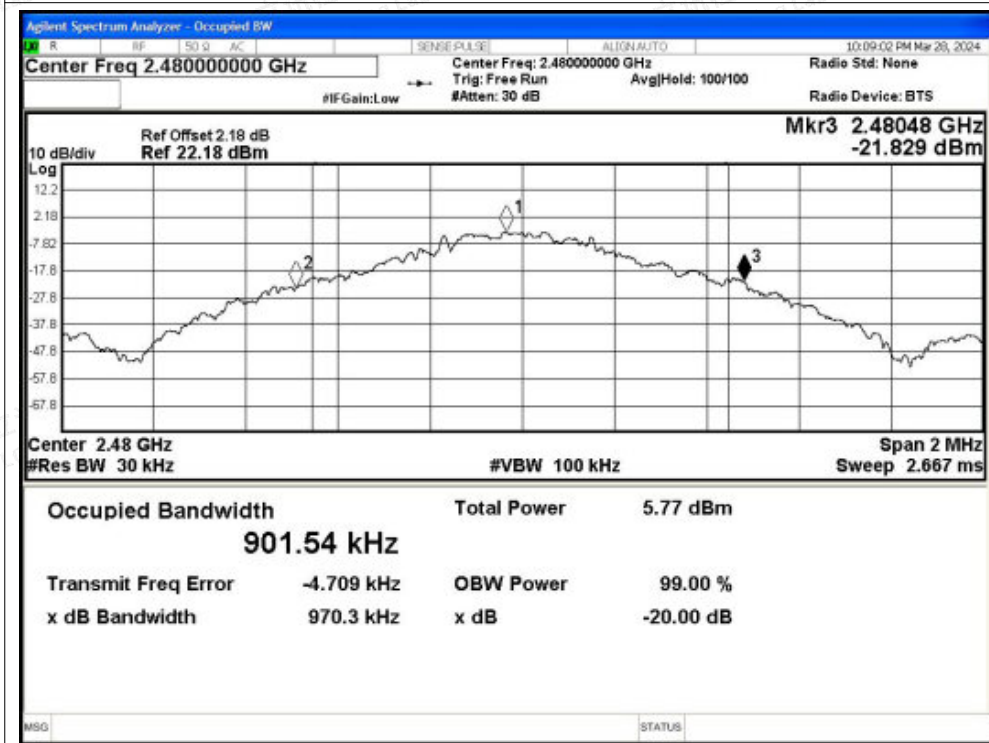


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

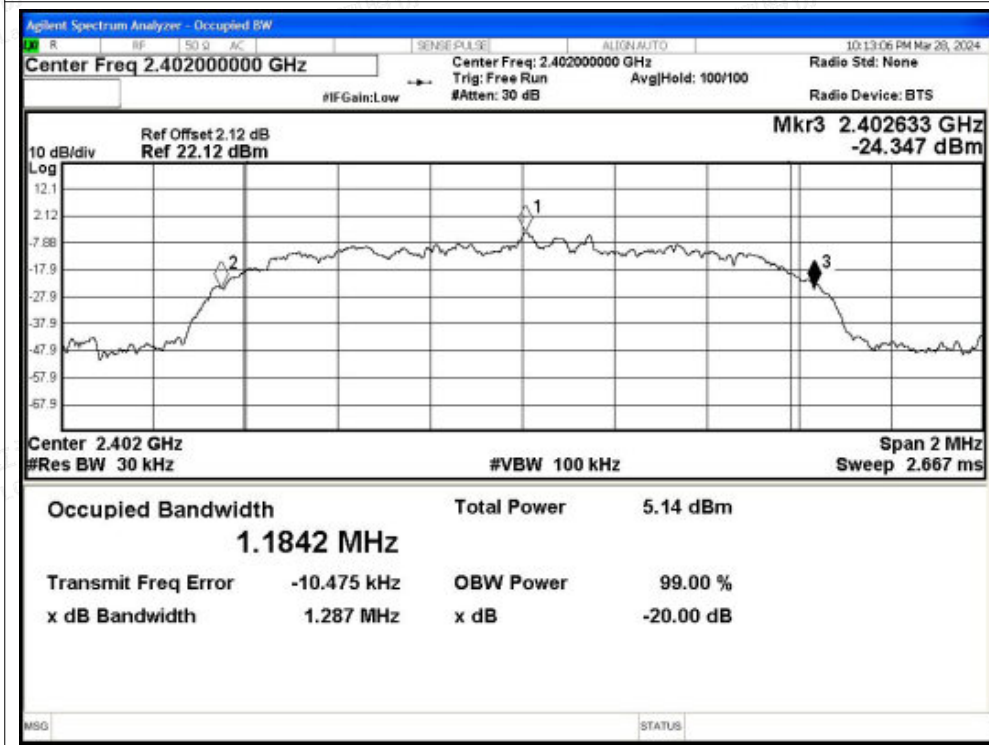




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

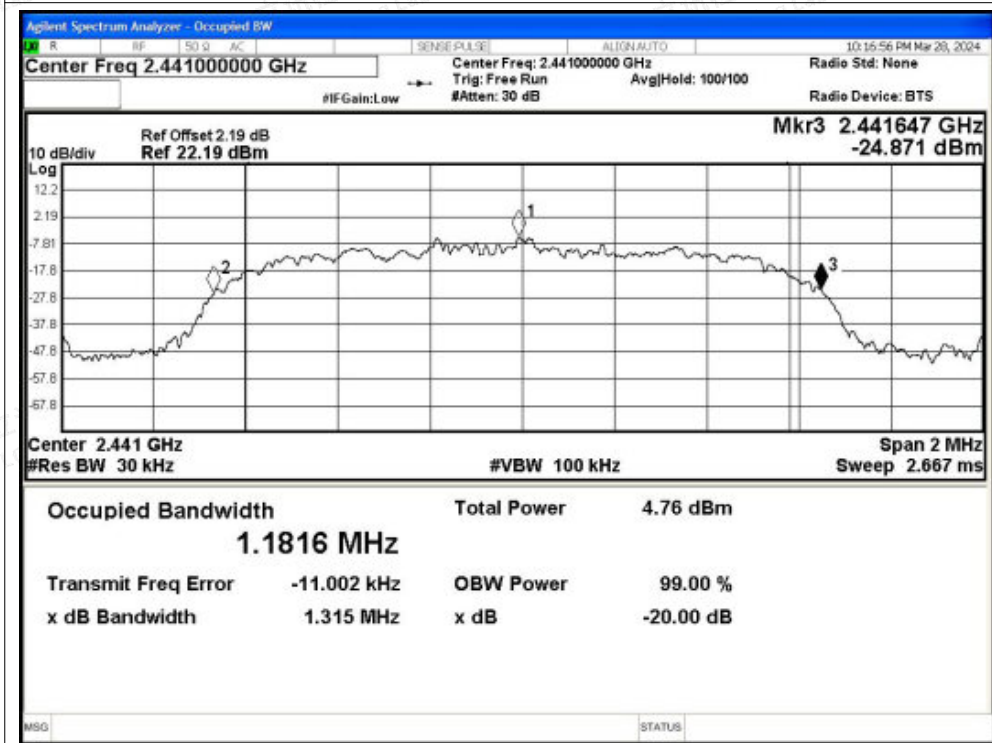


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

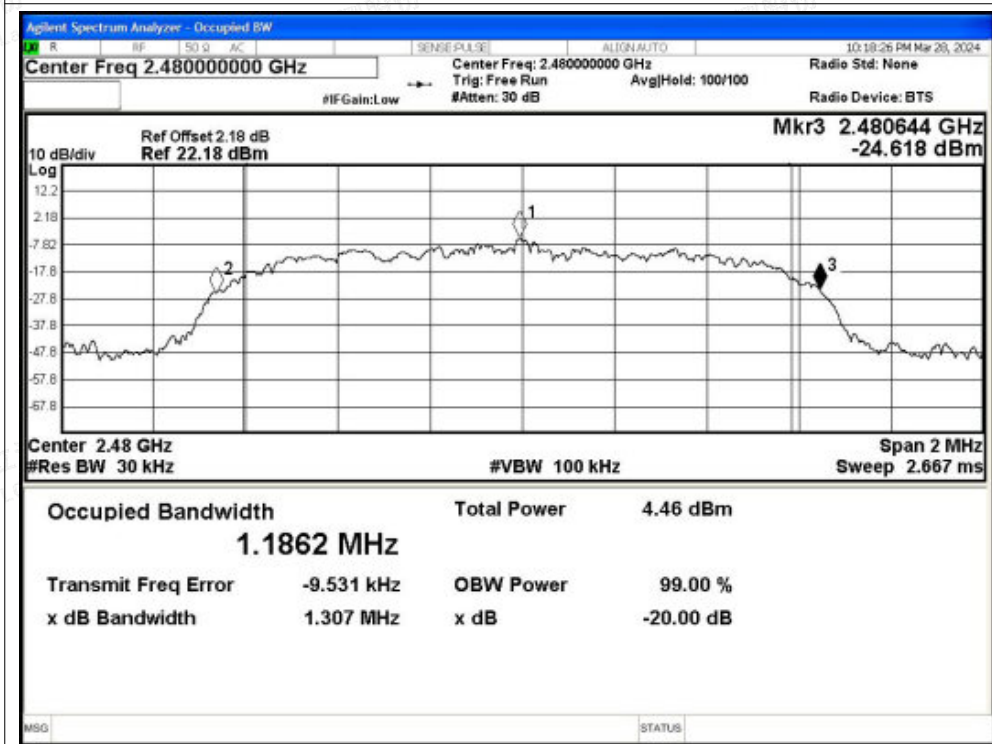




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

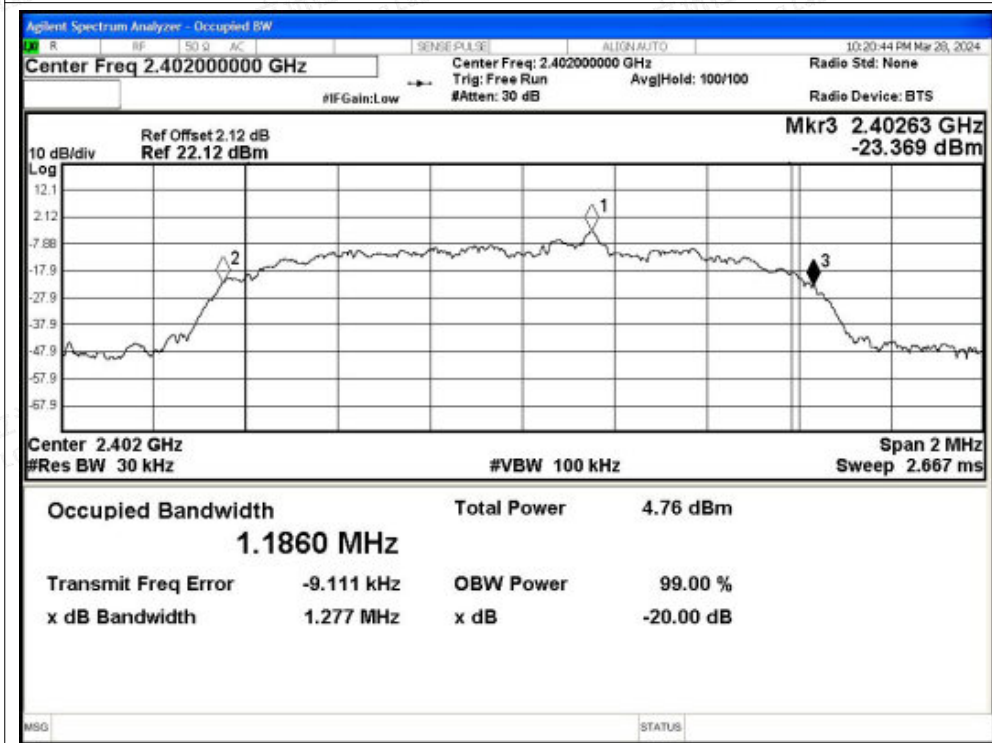


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

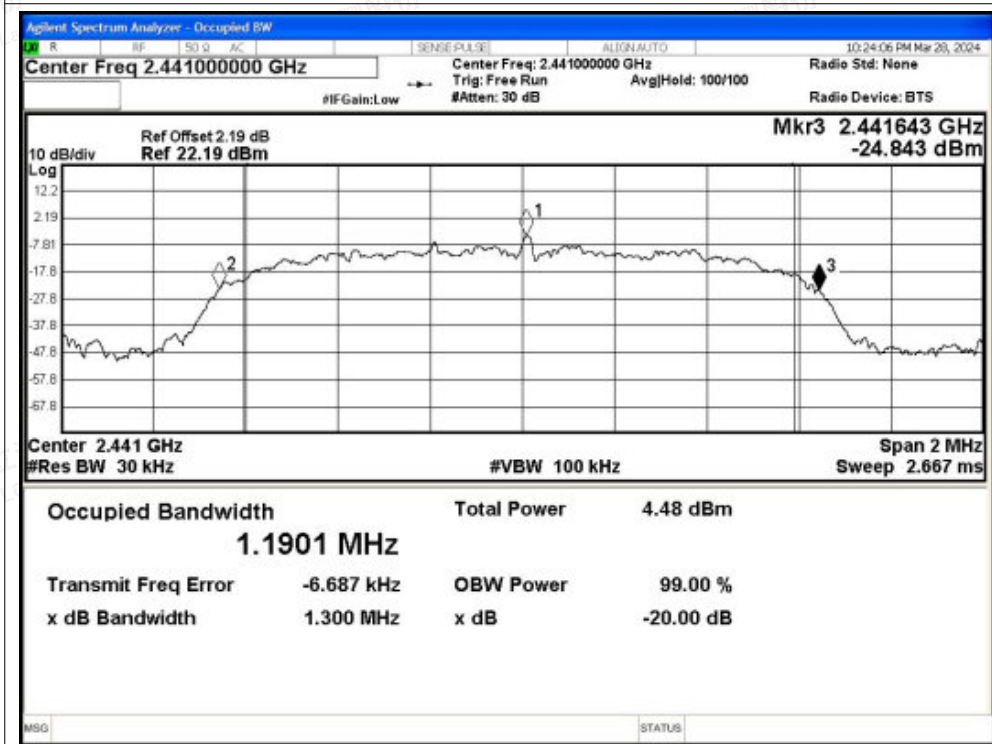




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

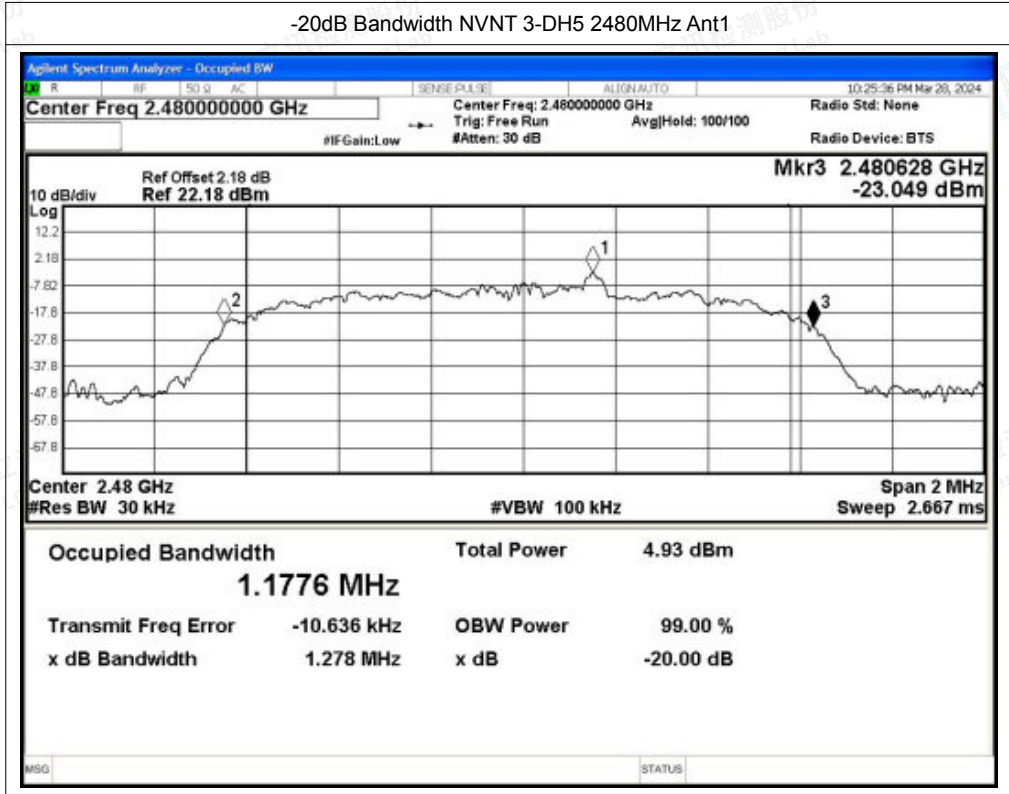


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-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	-0.81	21	Pass
NVNT	1-DH5	2441	Ant1	-0.59	21	Pass
NVNT	1-DH5	2480	Ant1	-0.51	21	Pass
NVNT	2-DH5	2402	Ant1	0.71	21	Pass
NVNT	2-DH5	2441	Ant1	0.54	21	Pass
NVNT	2-DH5	2480	Ant1	0.26	21	Pass
NVNT	3-DH5	2402	Ant1	0.27	21	Pass
NVNT	3-DH5	2441	Ant1	0.56	21	Pass
NVNT	3-DH5	2480	Ant1	0.33	21	Pass

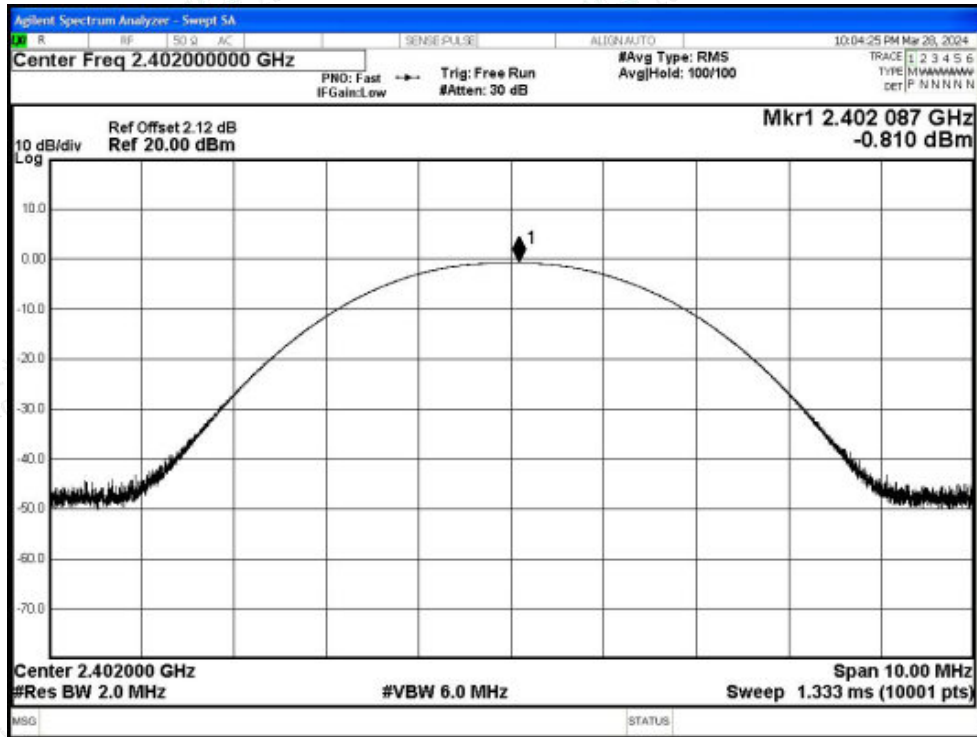


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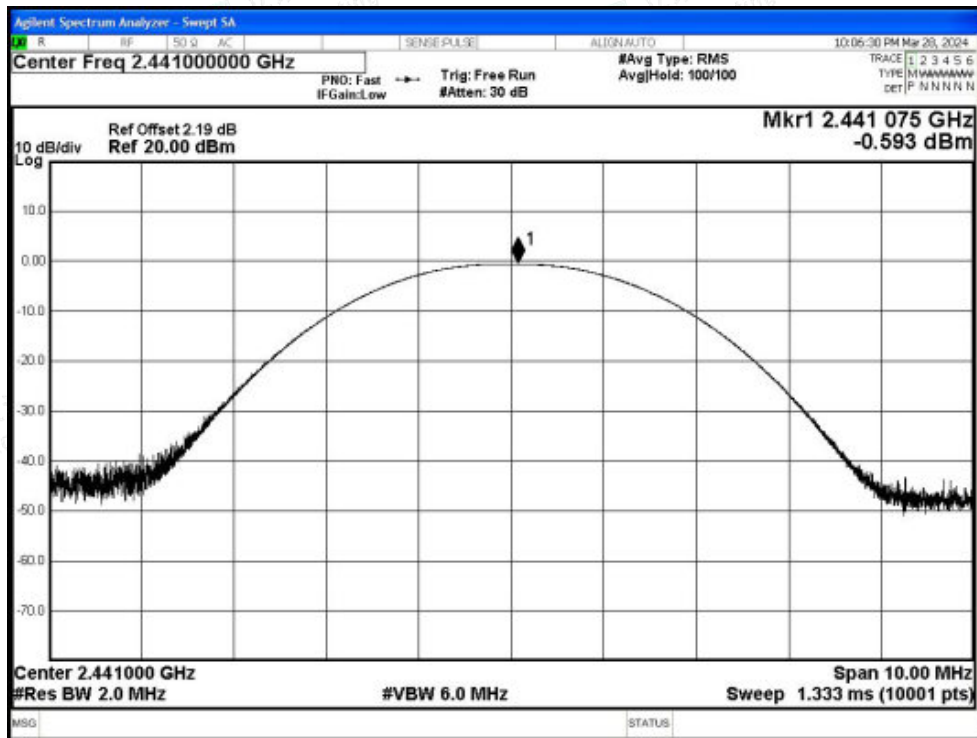


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

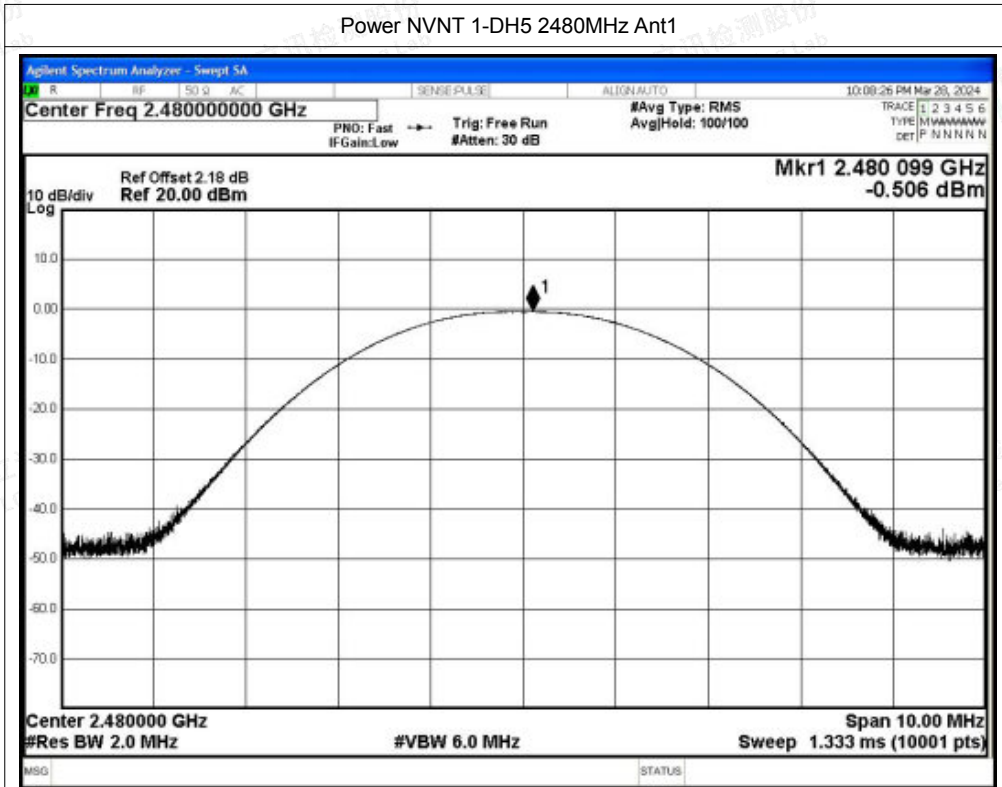


Power NVNT 1-DH5 2441MHz Ant1

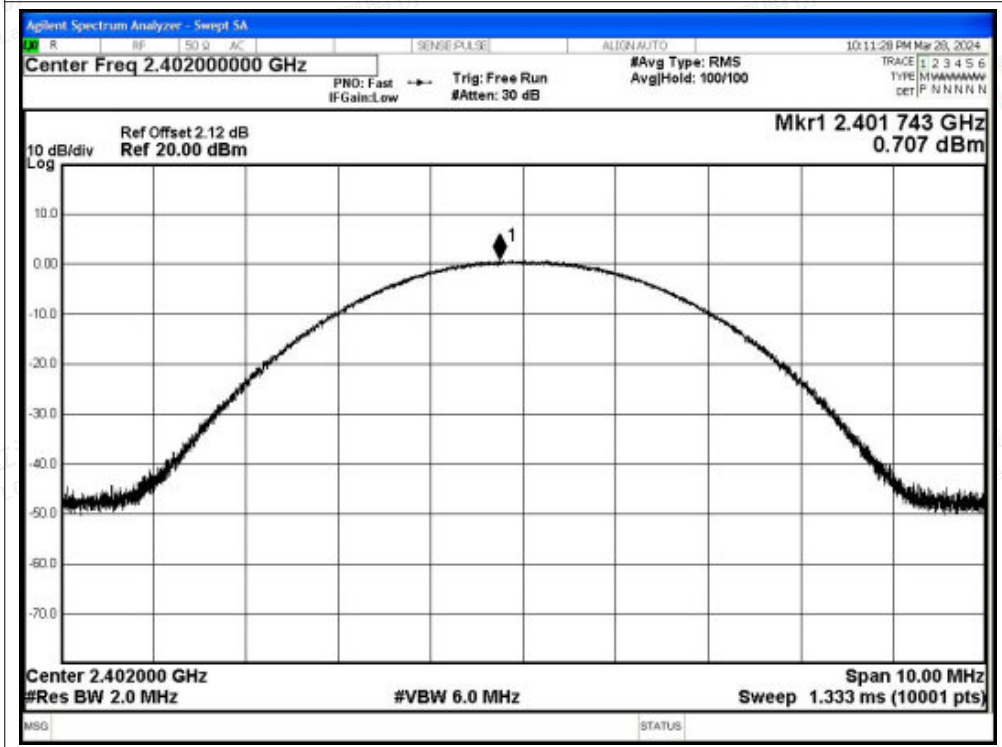




Power NVNT 1-DH5 2480MHz Ant1

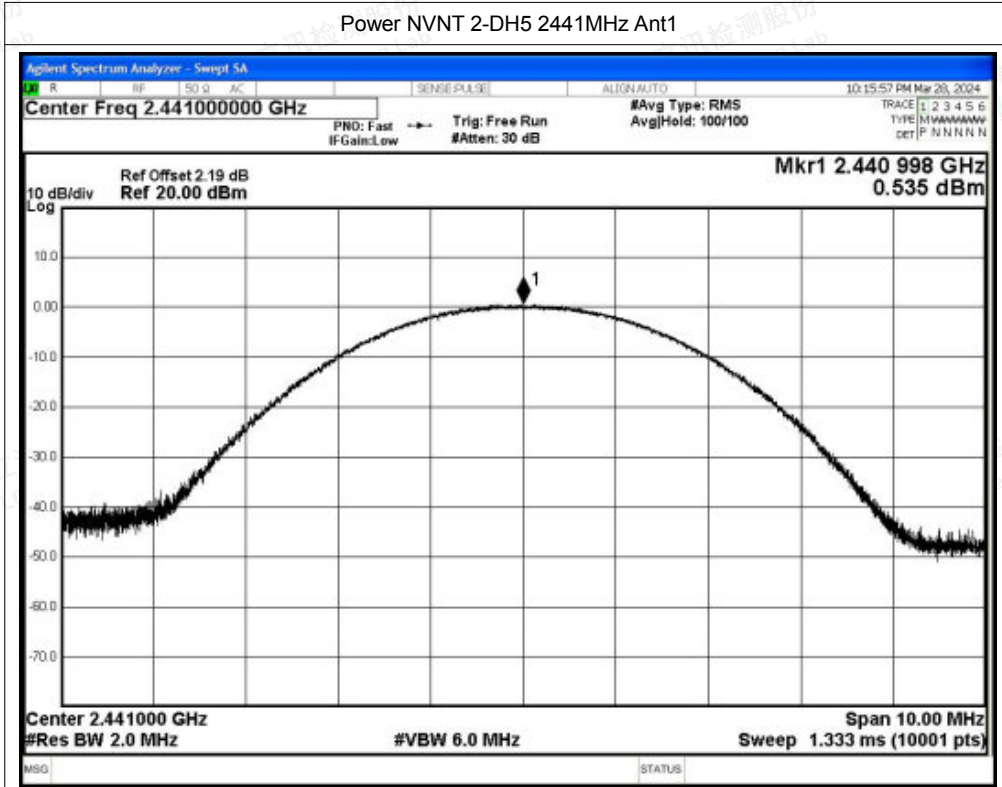


Power NVNT 2-DH5 2402MHz Ant1

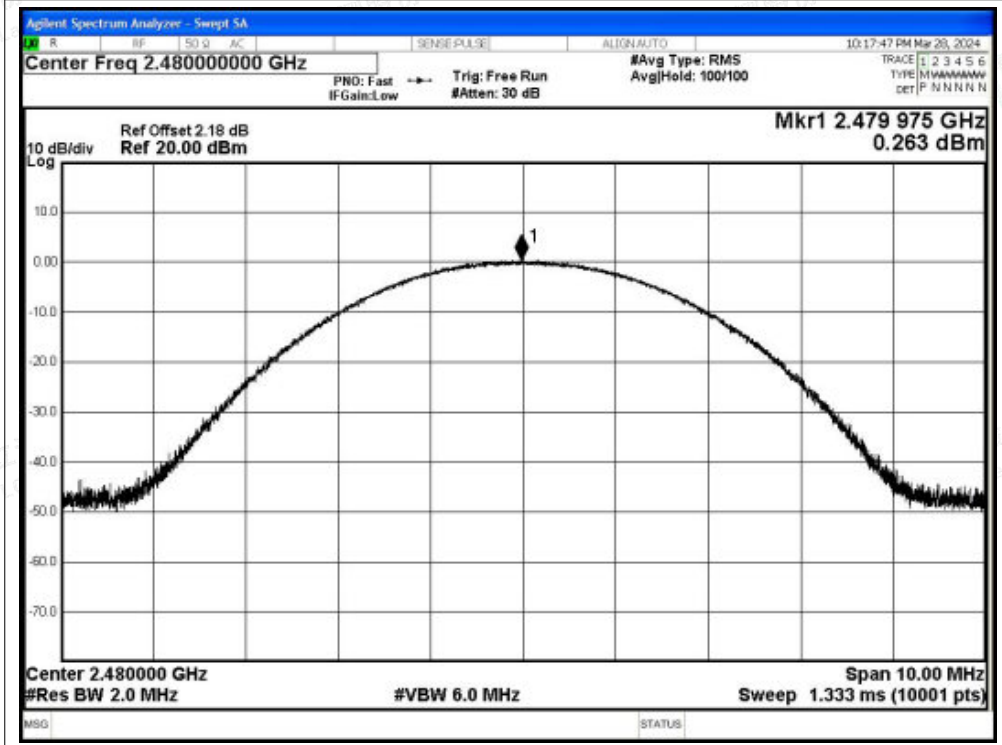




Power NVNT 2-DH5 2441MHz Ant1

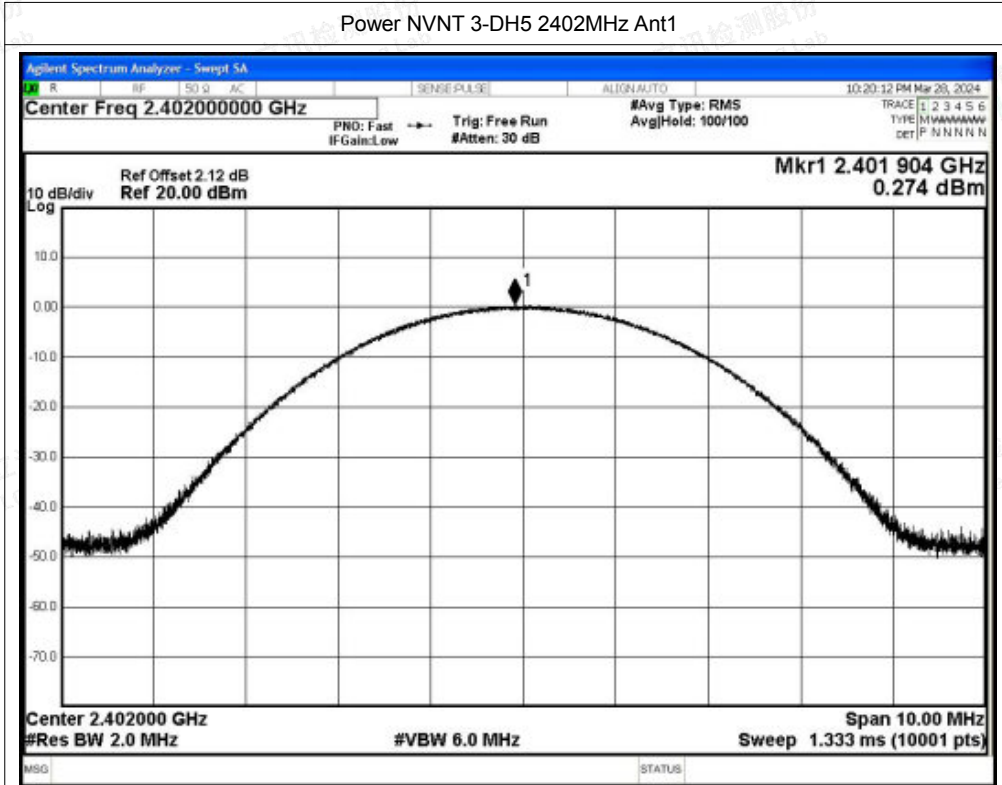


Power NVNT 2-DH5 2480MHz Ant1

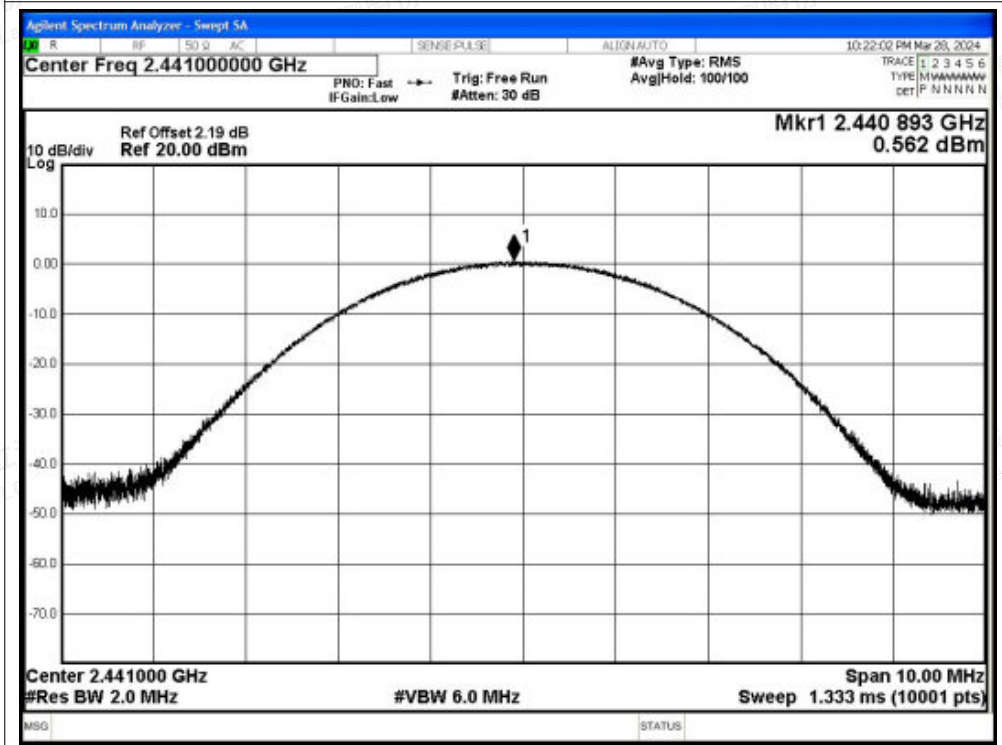


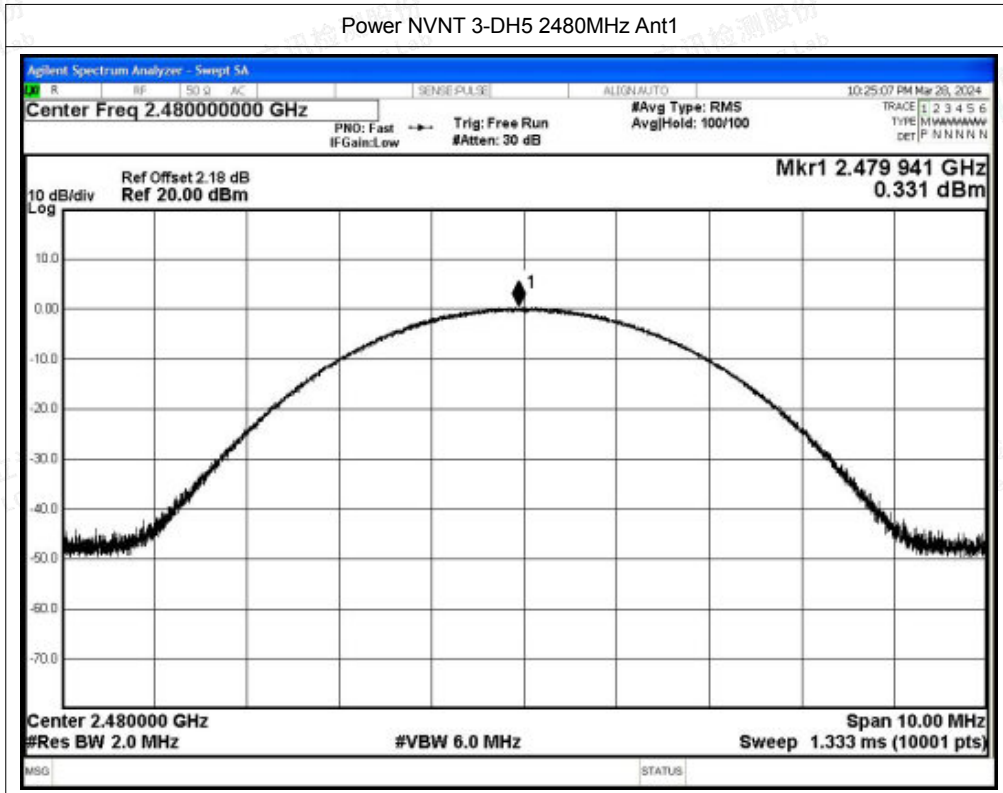


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.008	2402.968	0.96	0.647	Pass
NVNT	2-DH5	Ant1	2402.006	2403.15	1.144	0.877	Pass
NVNT	3-DH5	Ant1	2402.158	2403.154	0.996	0.867	Pass

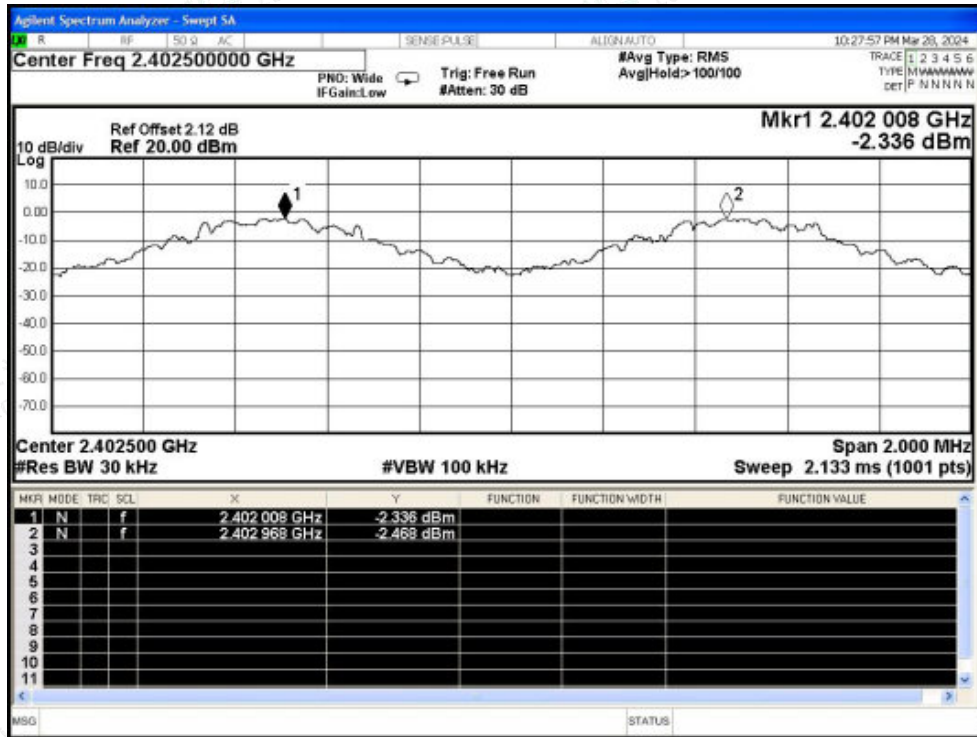


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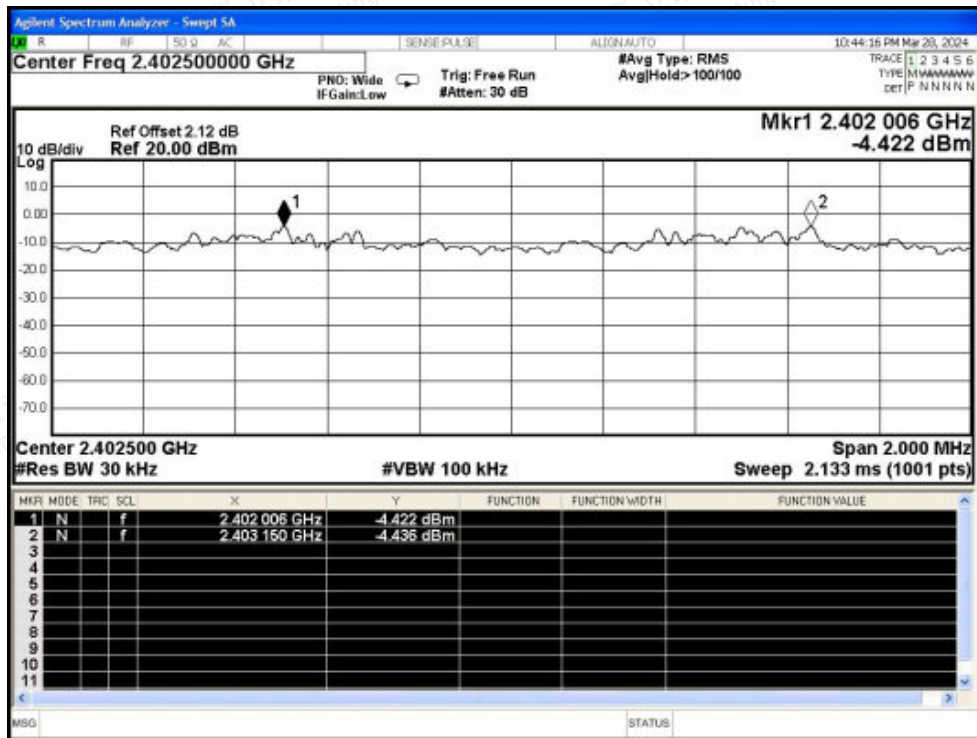


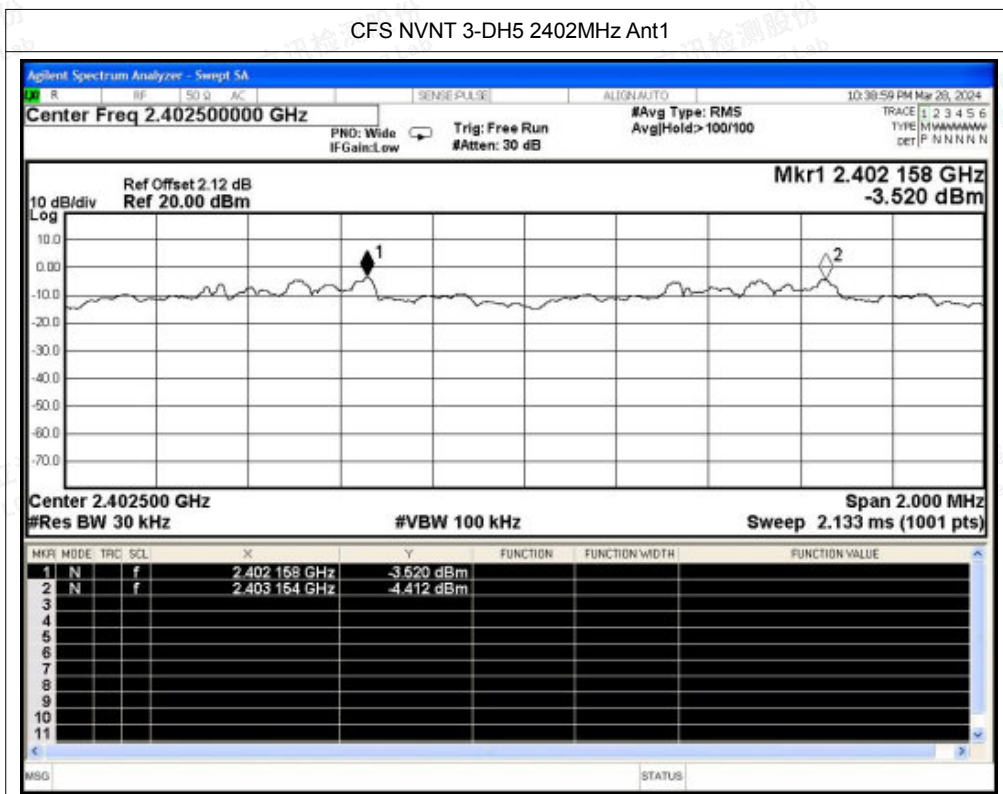
Test Graphs

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	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	311.04	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	297.361	103	31600	400	Pass

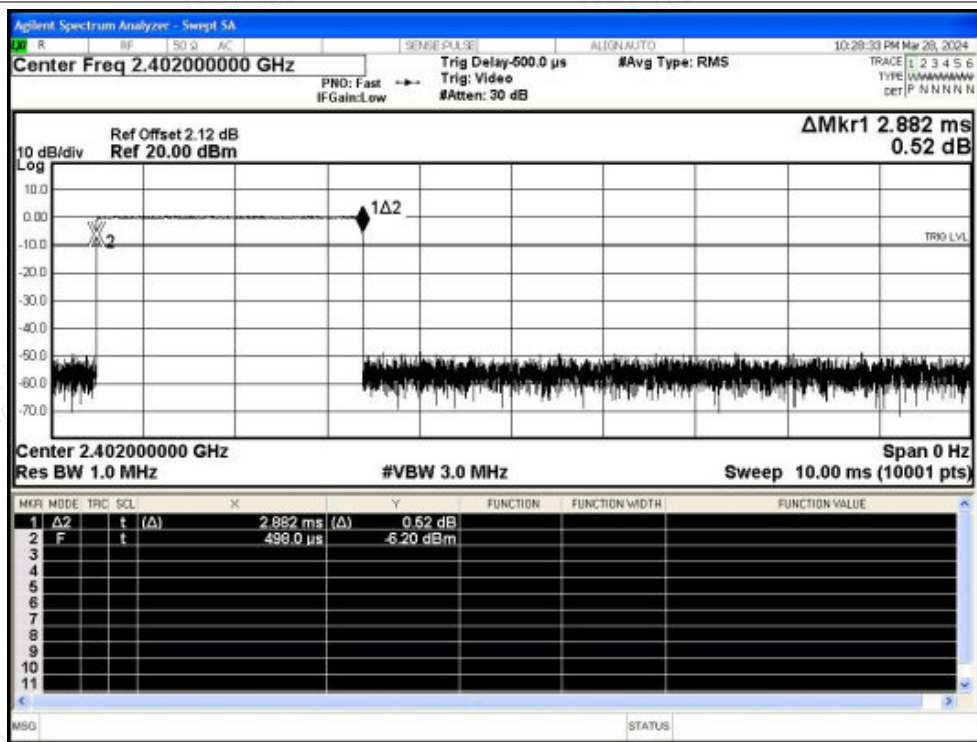


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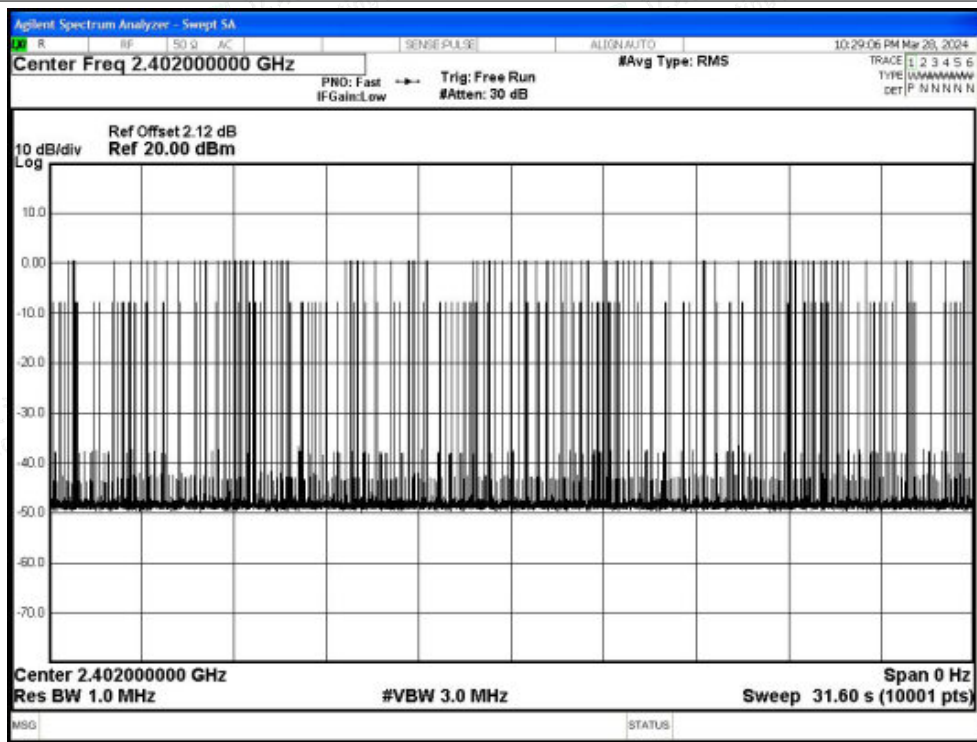


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

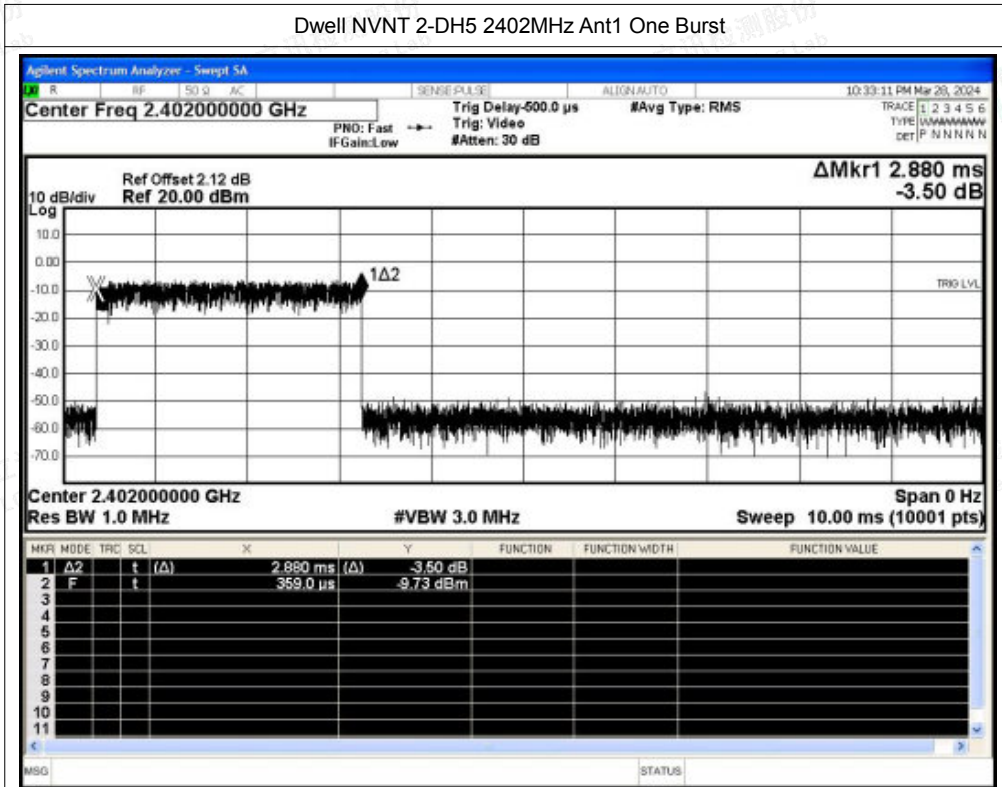


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

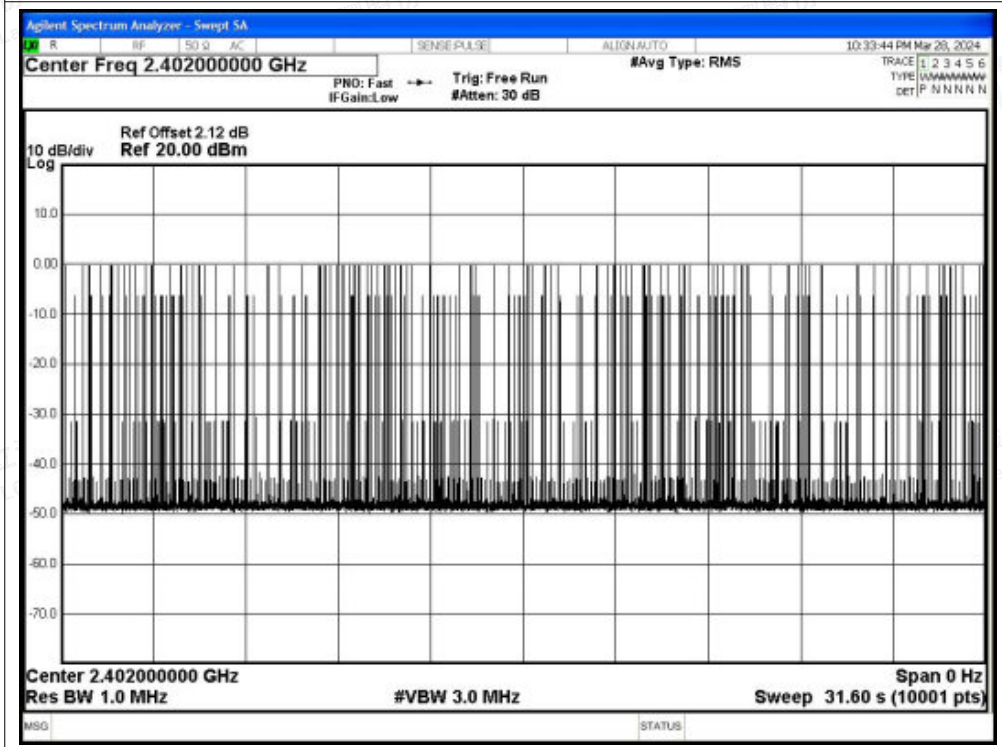




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

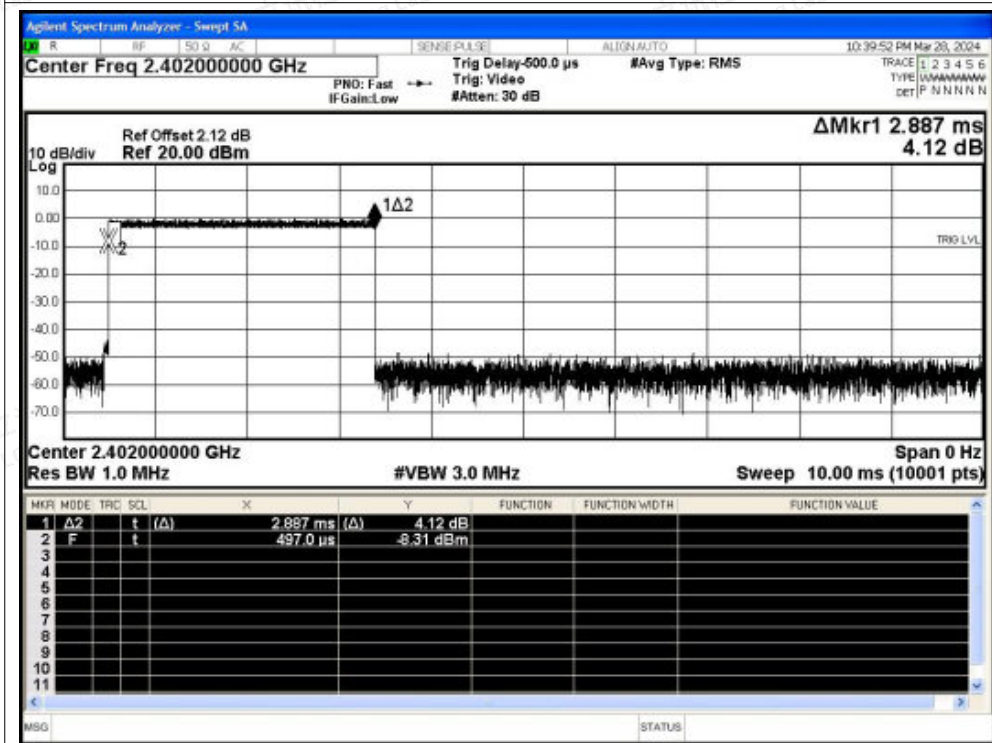


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

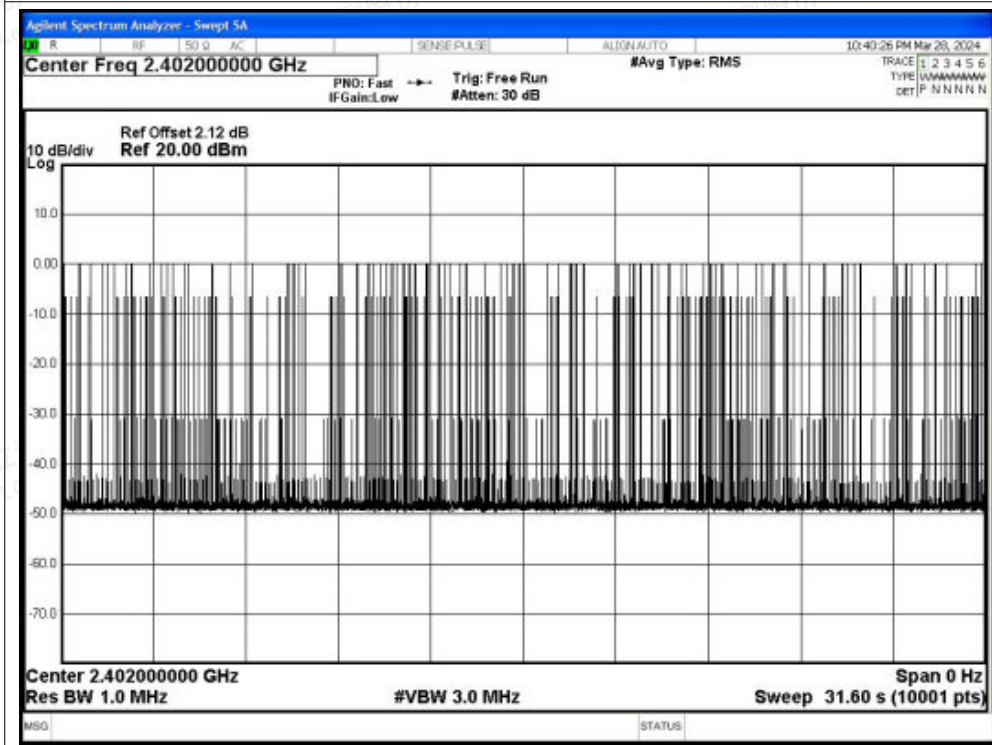




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

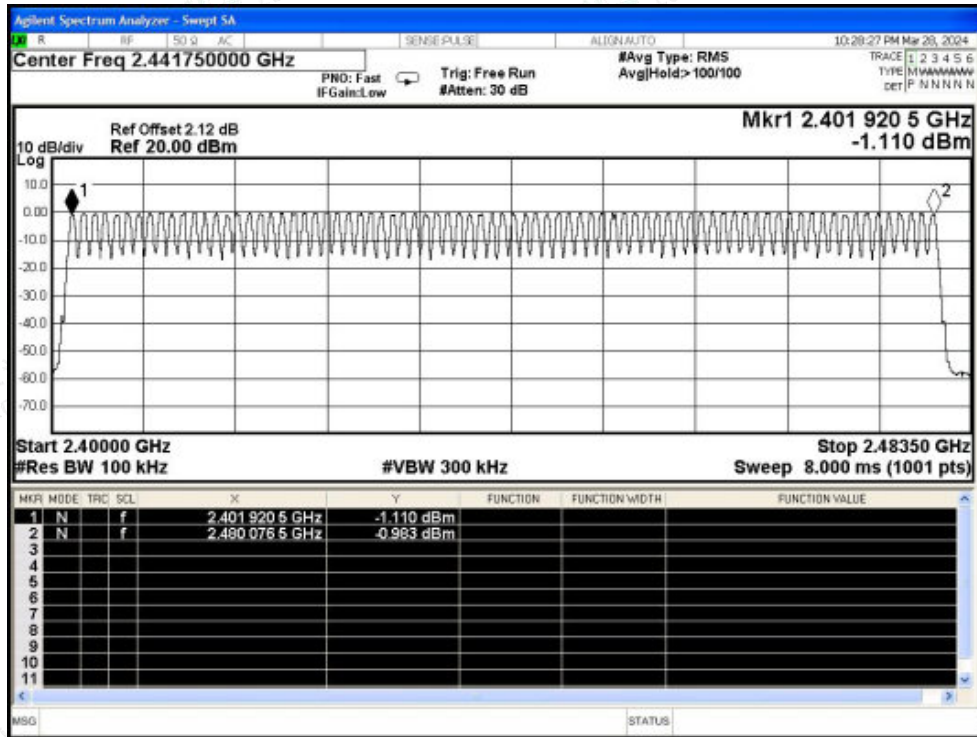
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



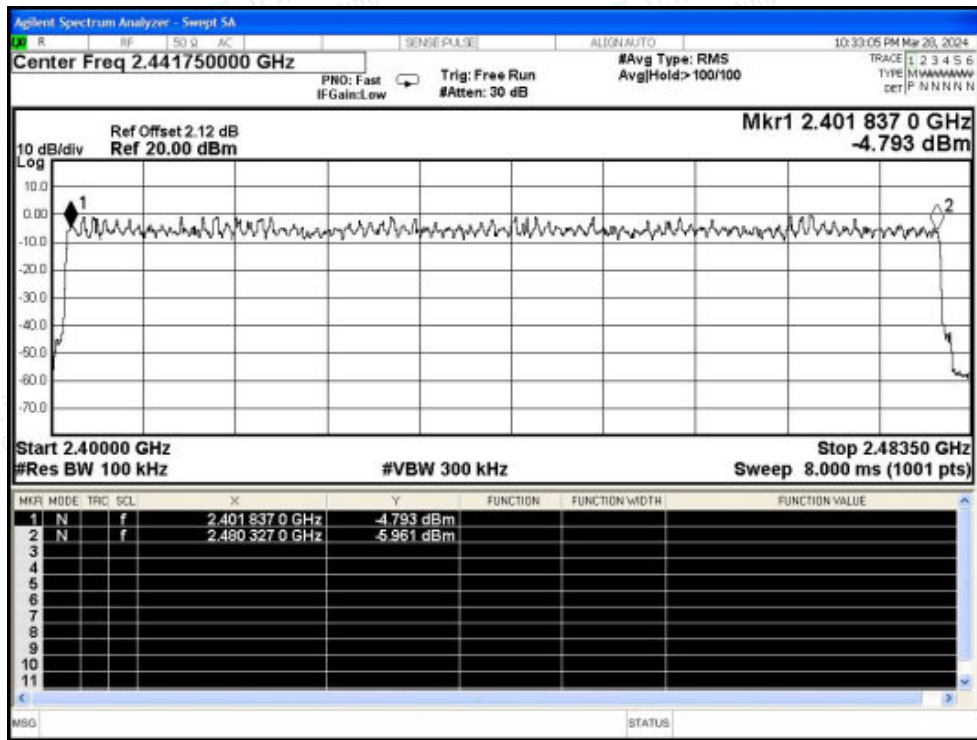


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

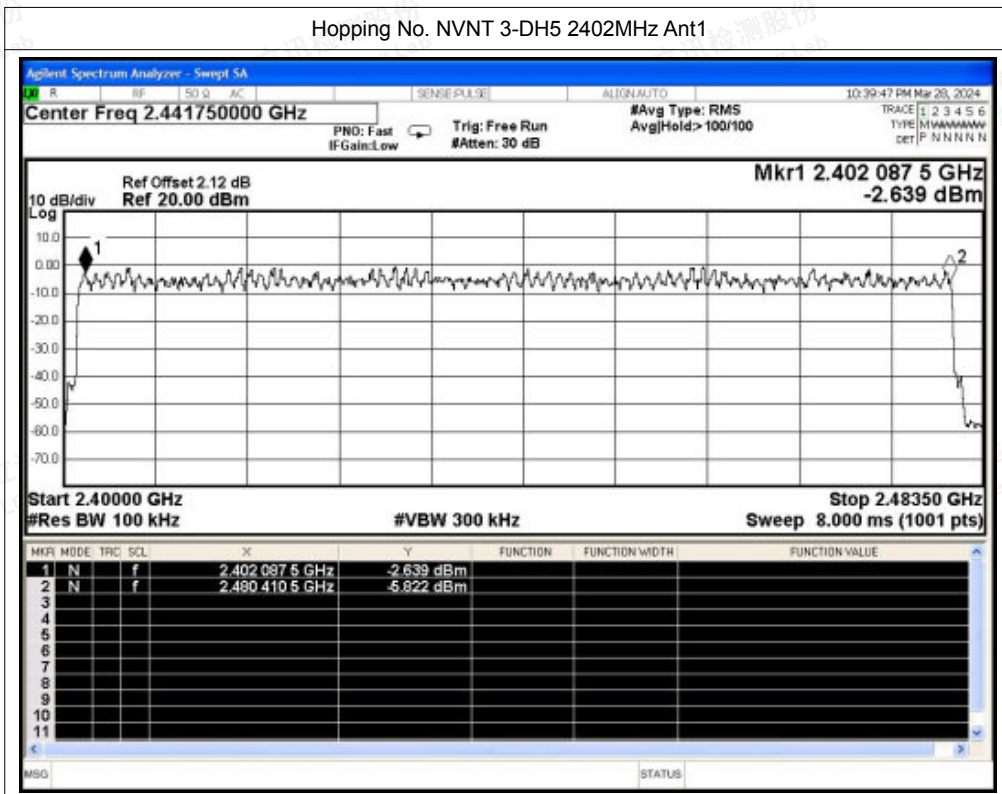


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

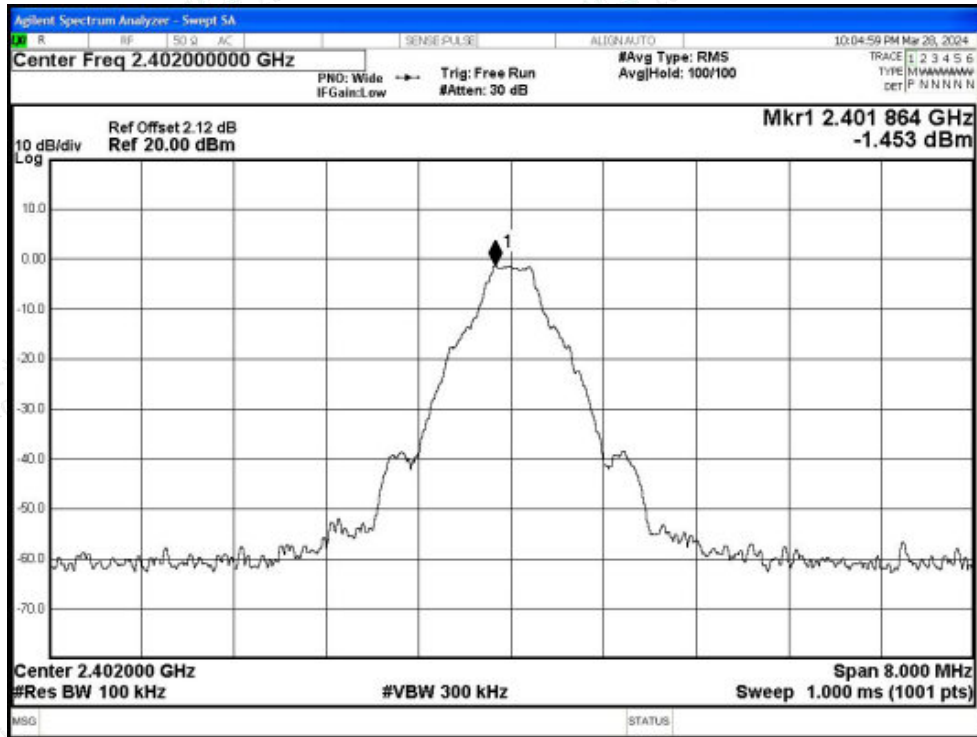
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.45	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.01	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.61	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.43	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.33	-20	Pass



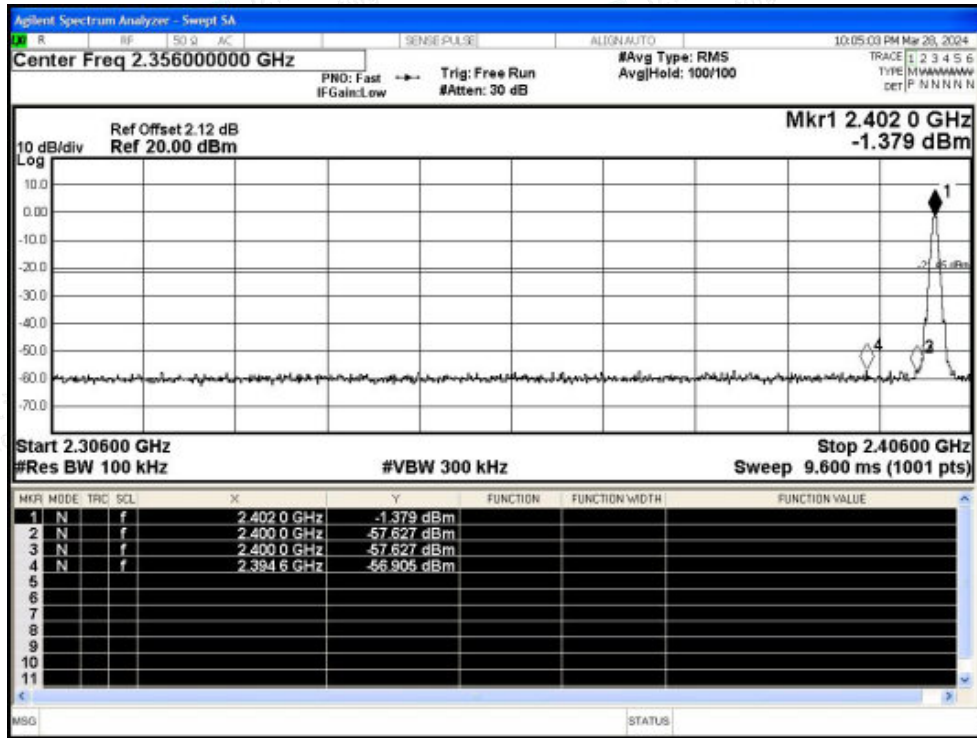


Test Graphs

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

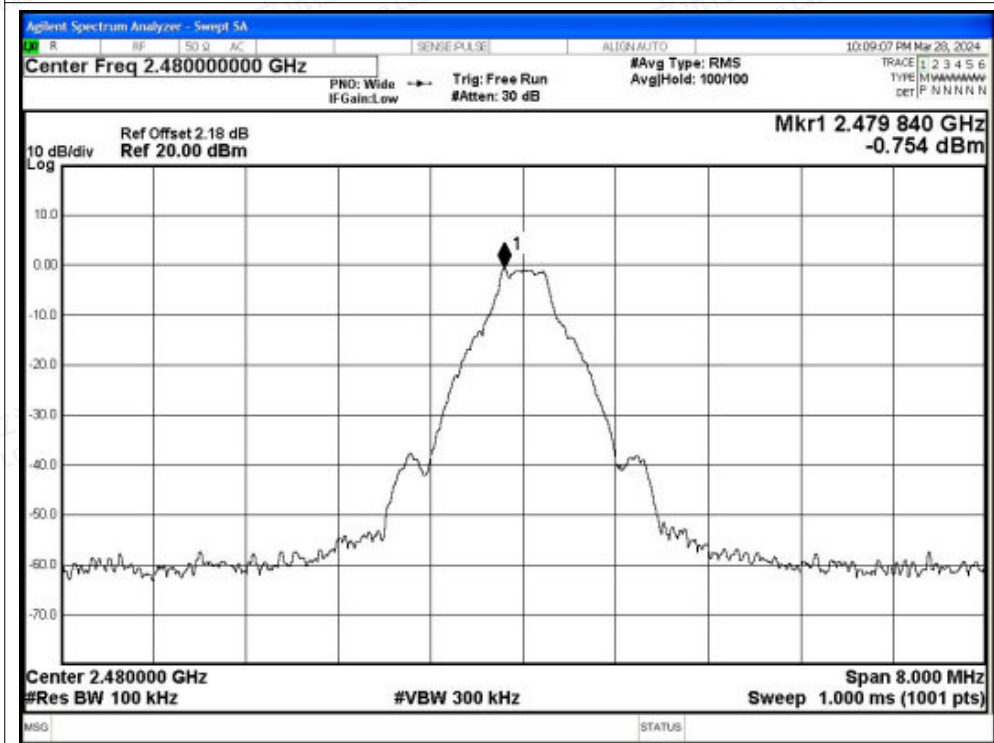


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

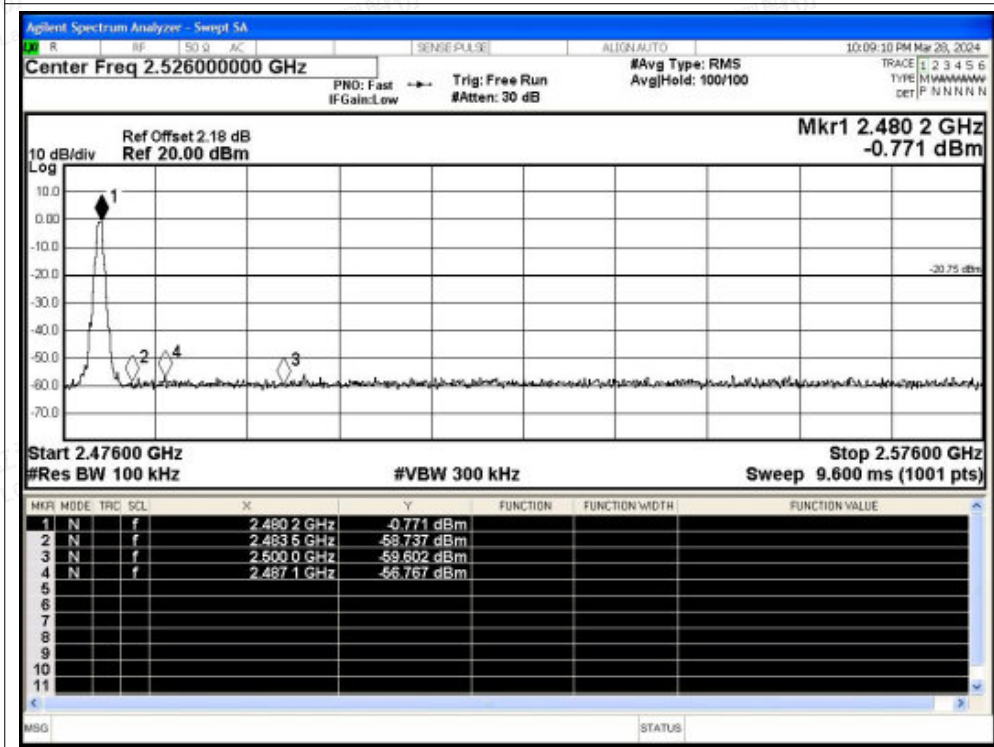




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

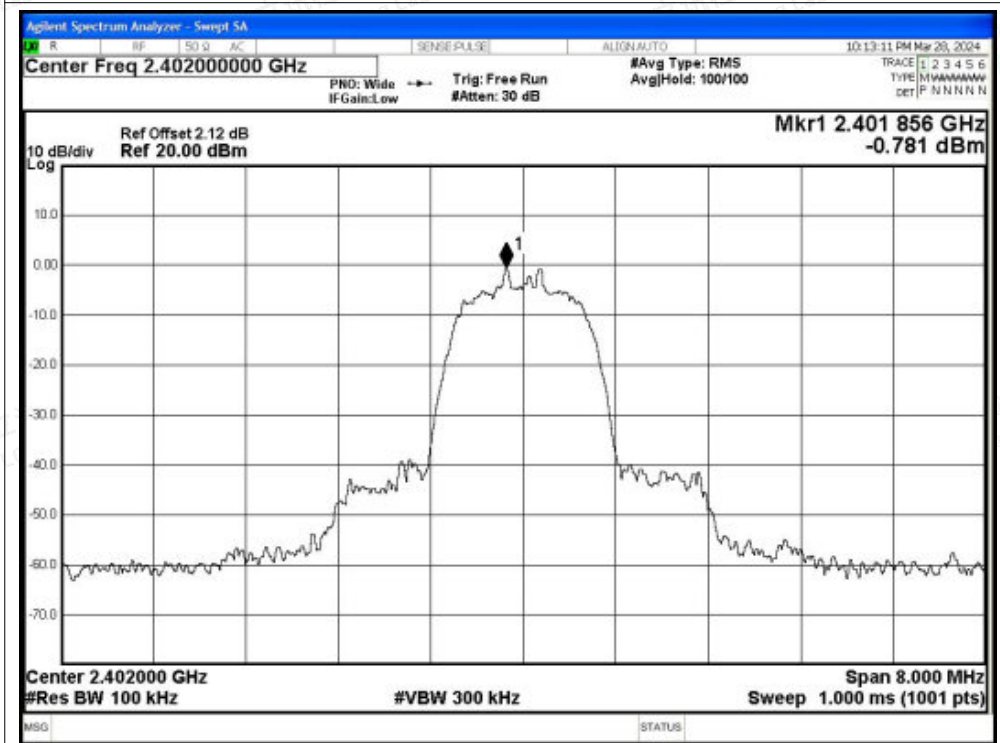


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

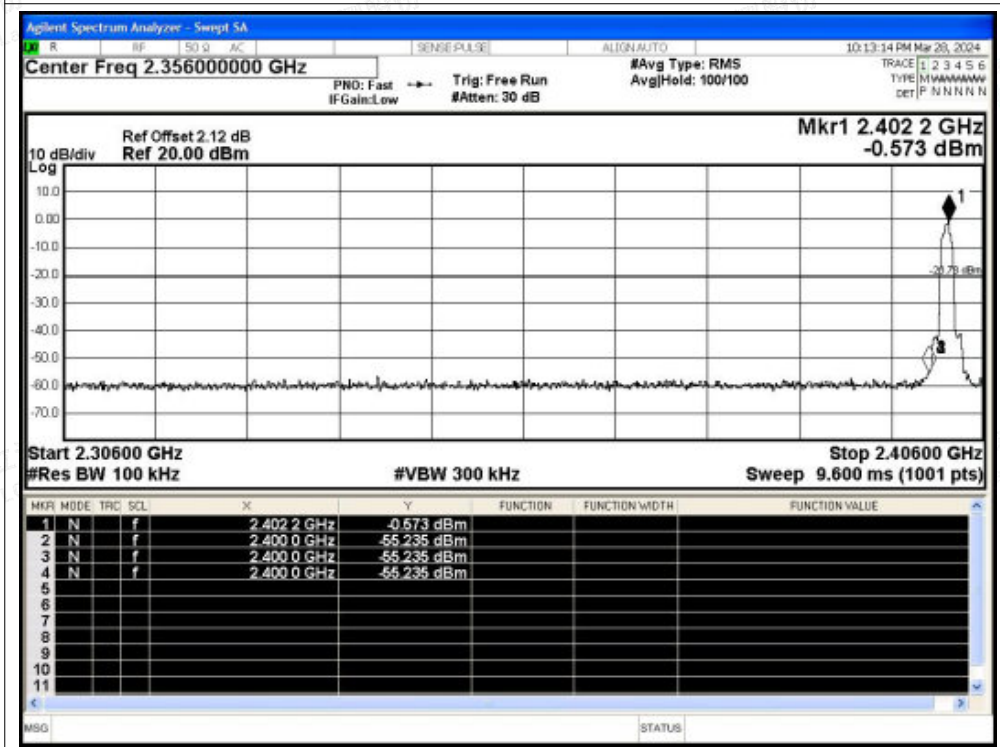




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

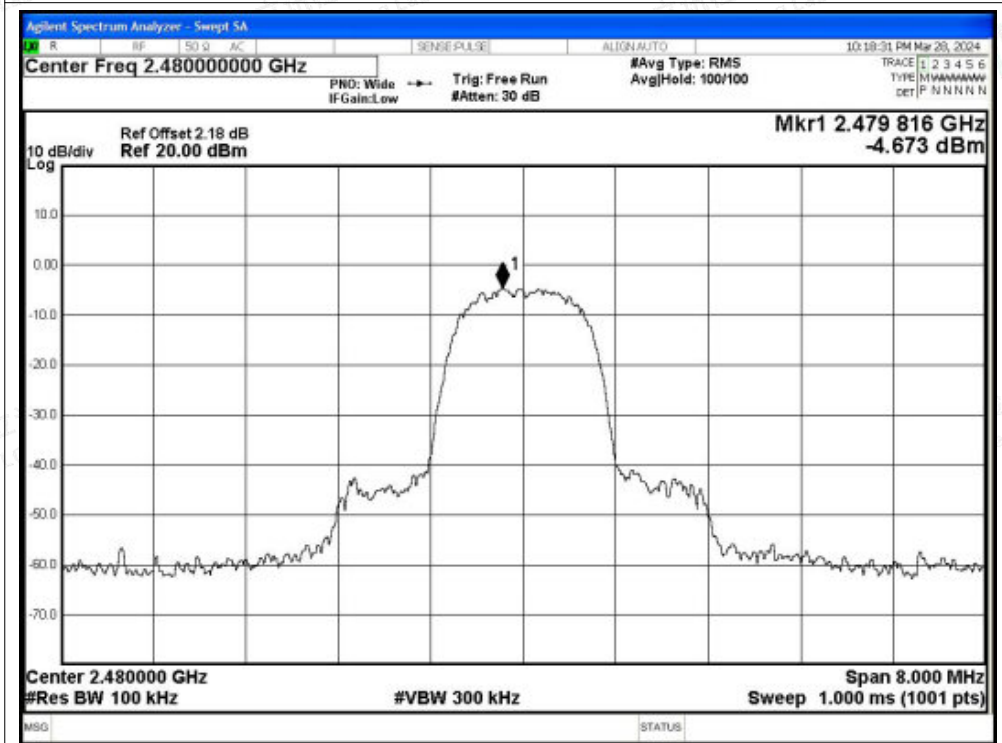


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

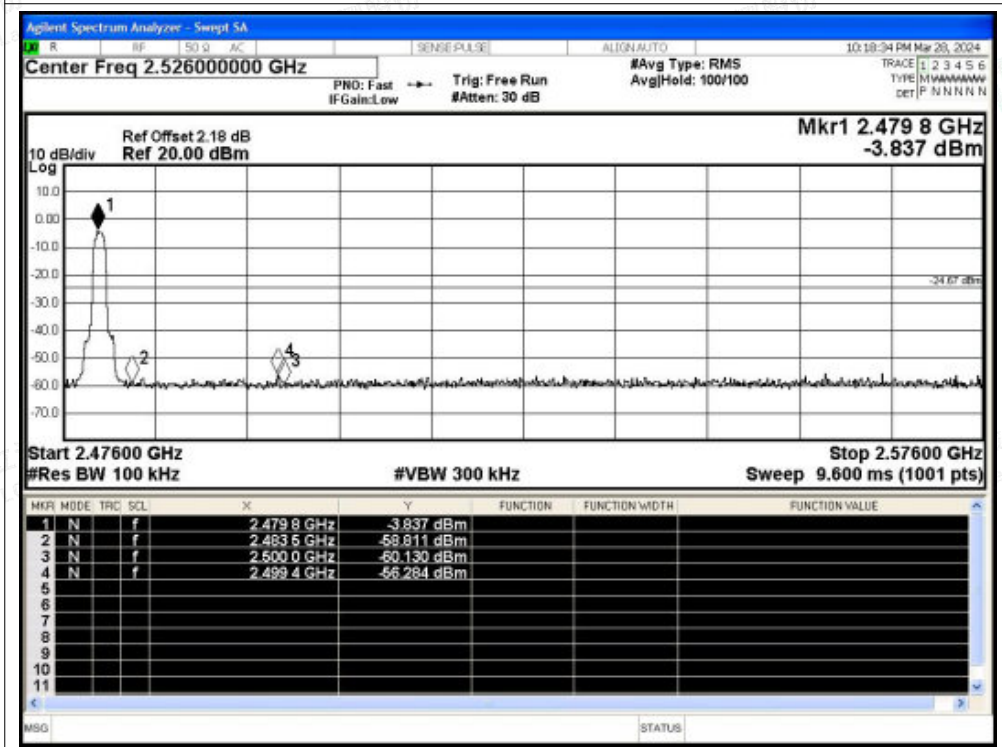




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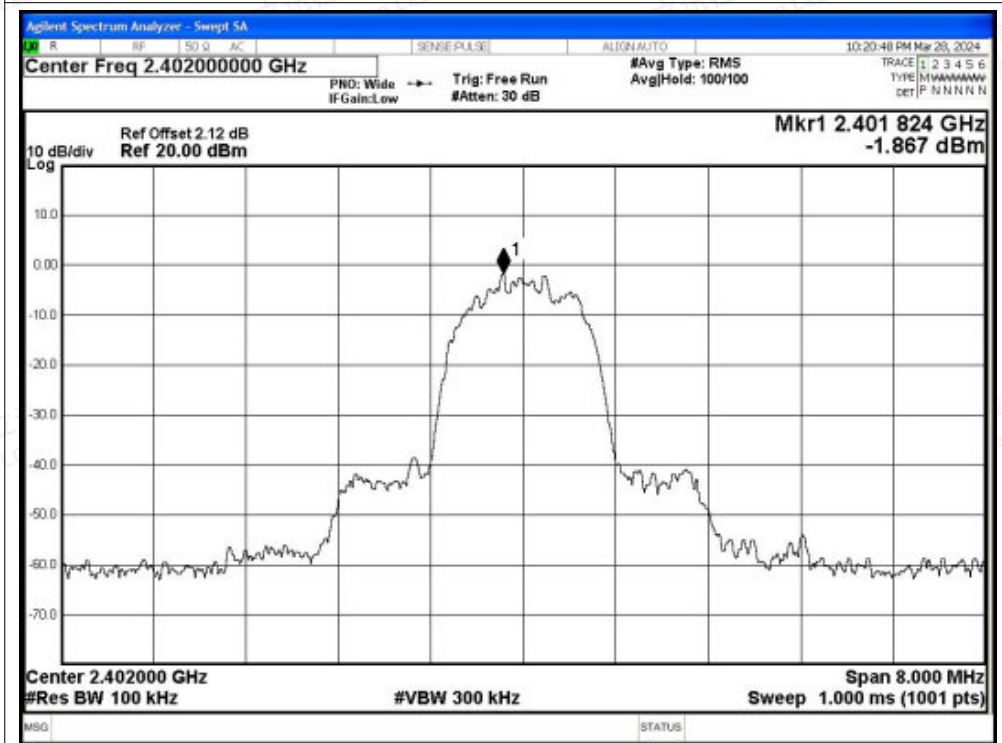


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

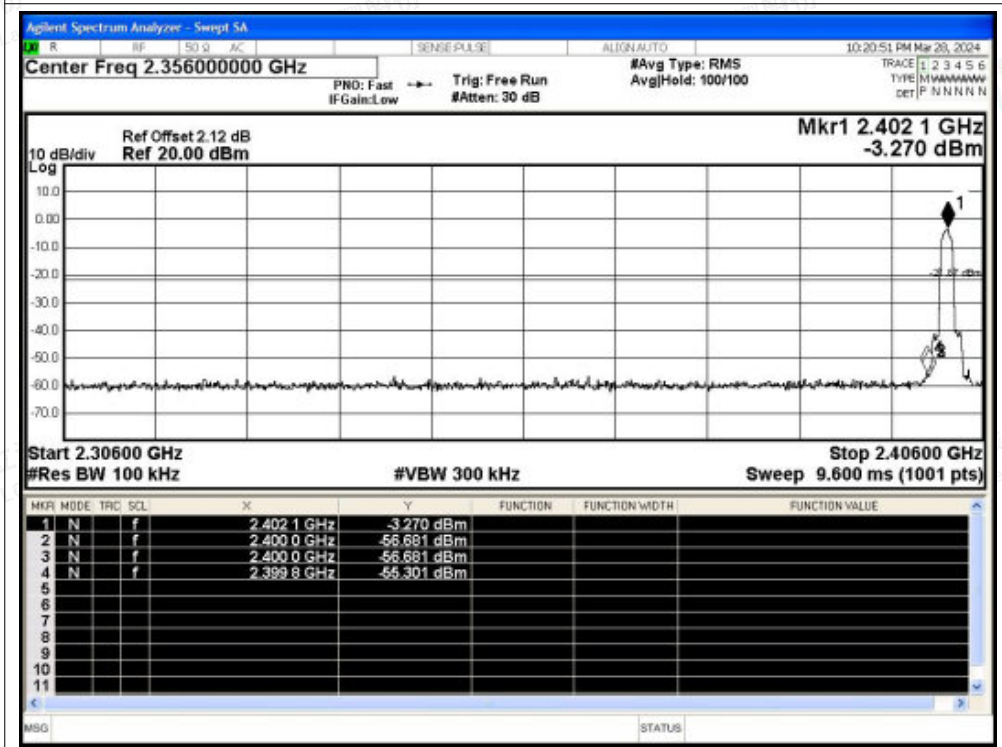




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

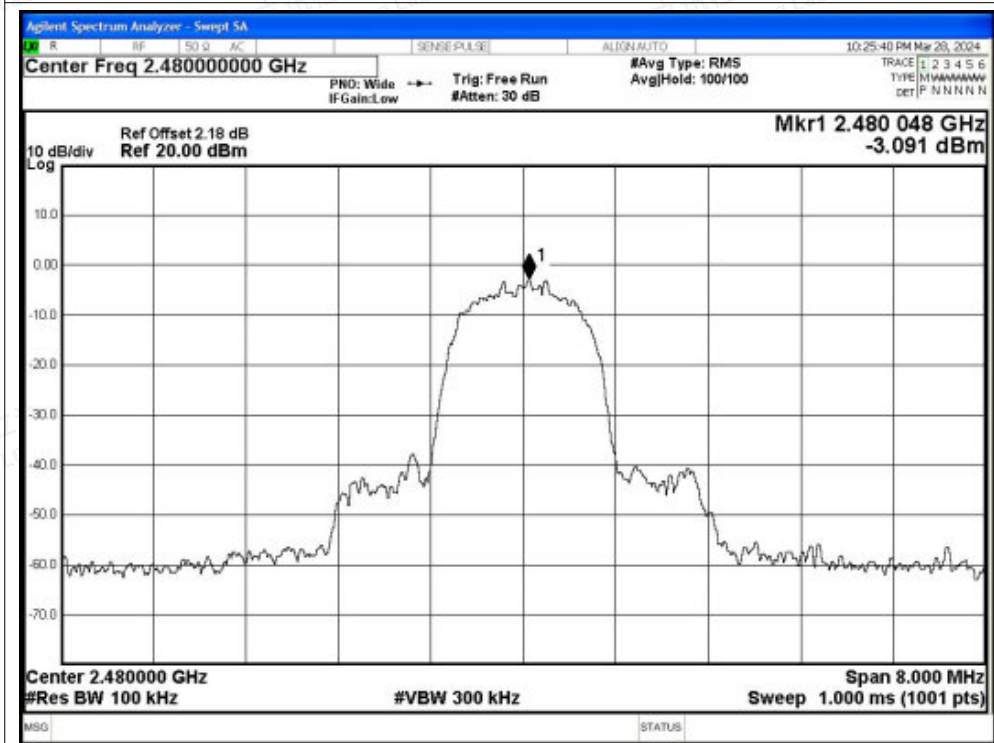


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

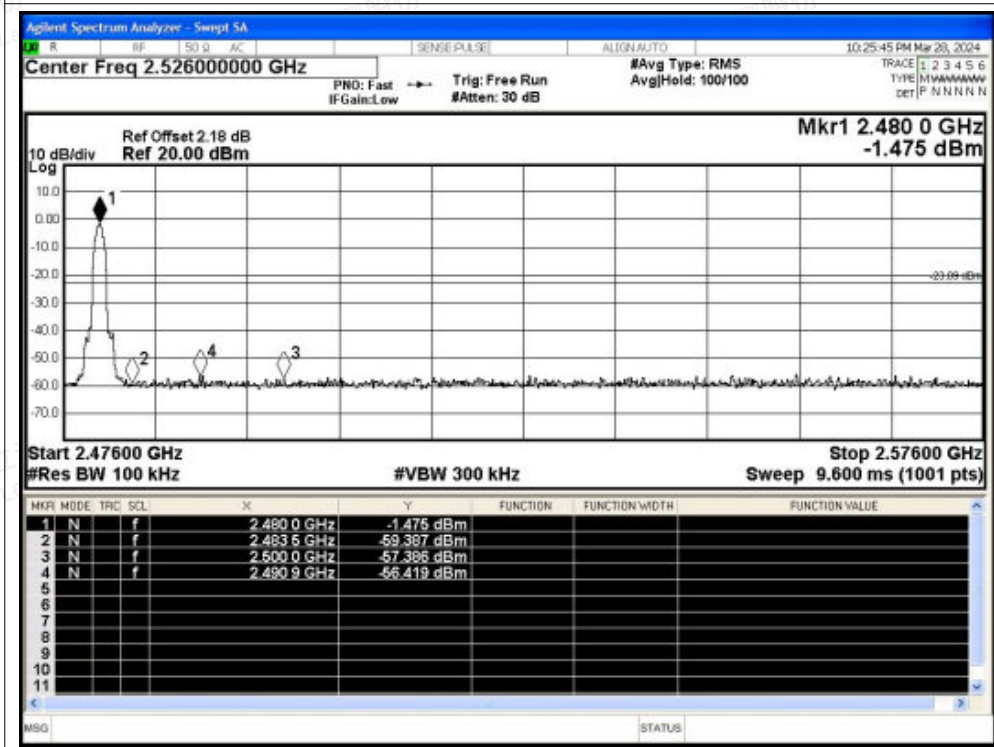




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

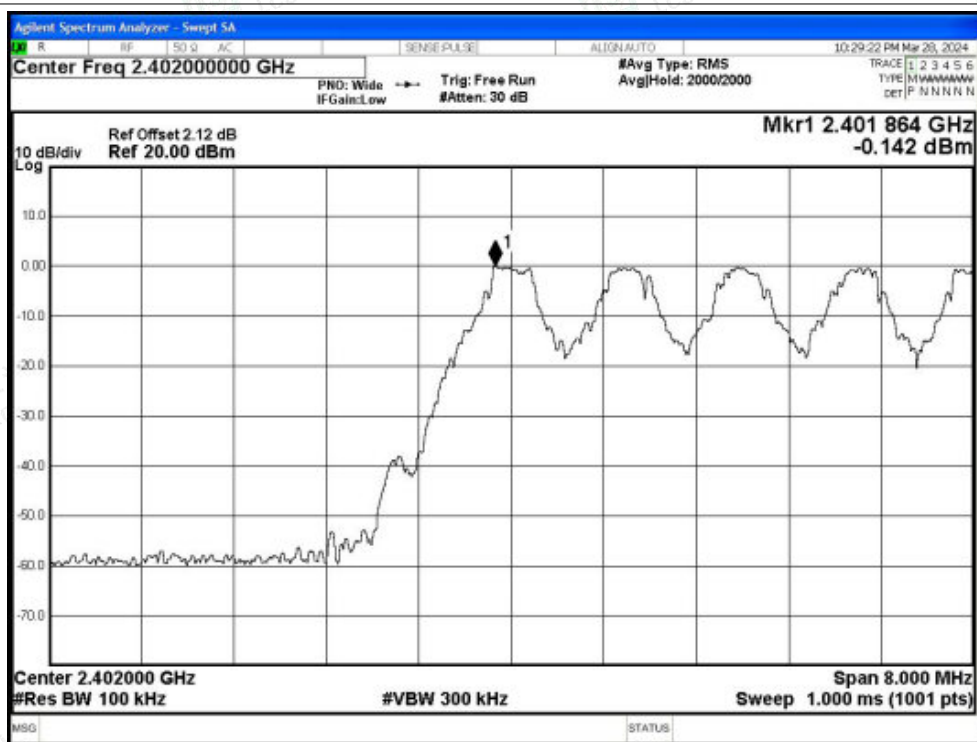
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.9	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.81	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.94	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.86	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.39	-20	Pass



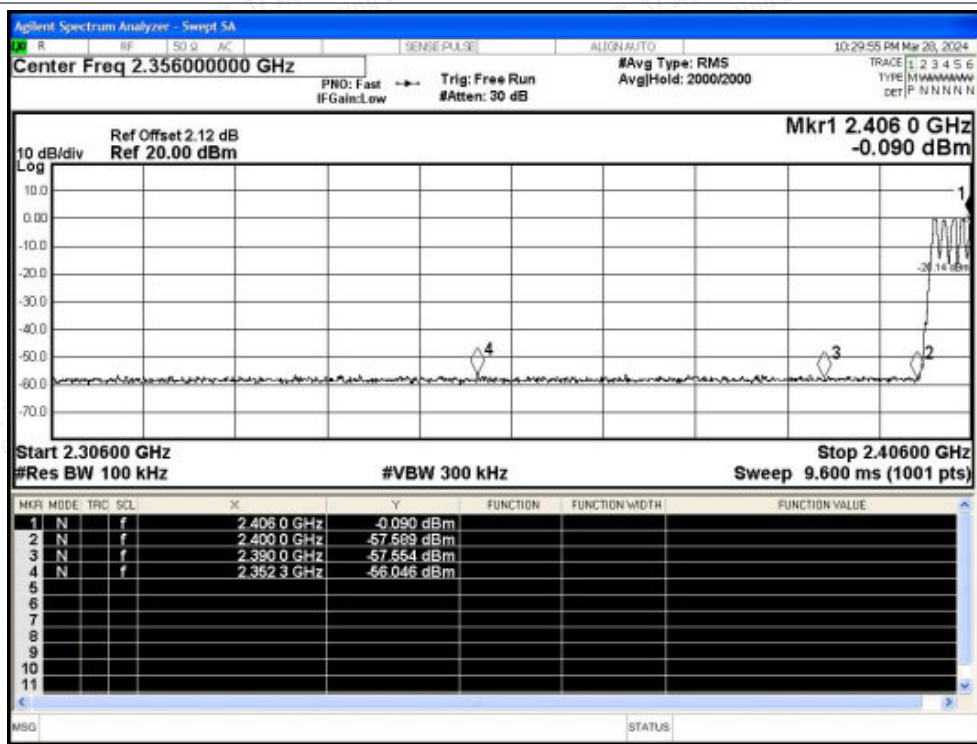


Test Graphs

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

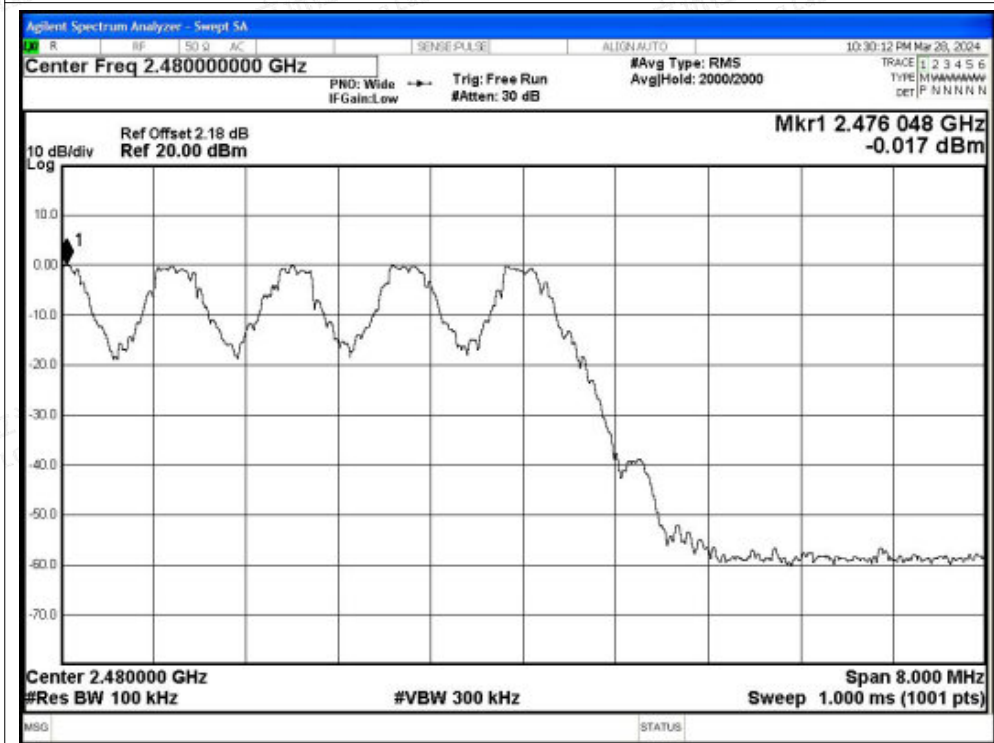


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

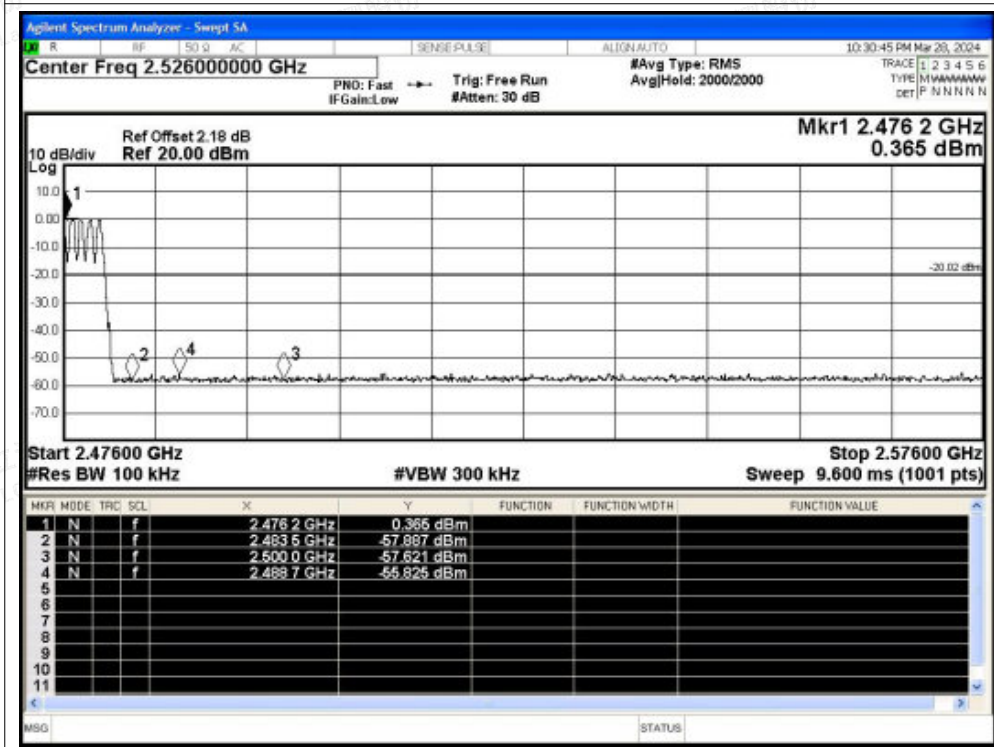




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

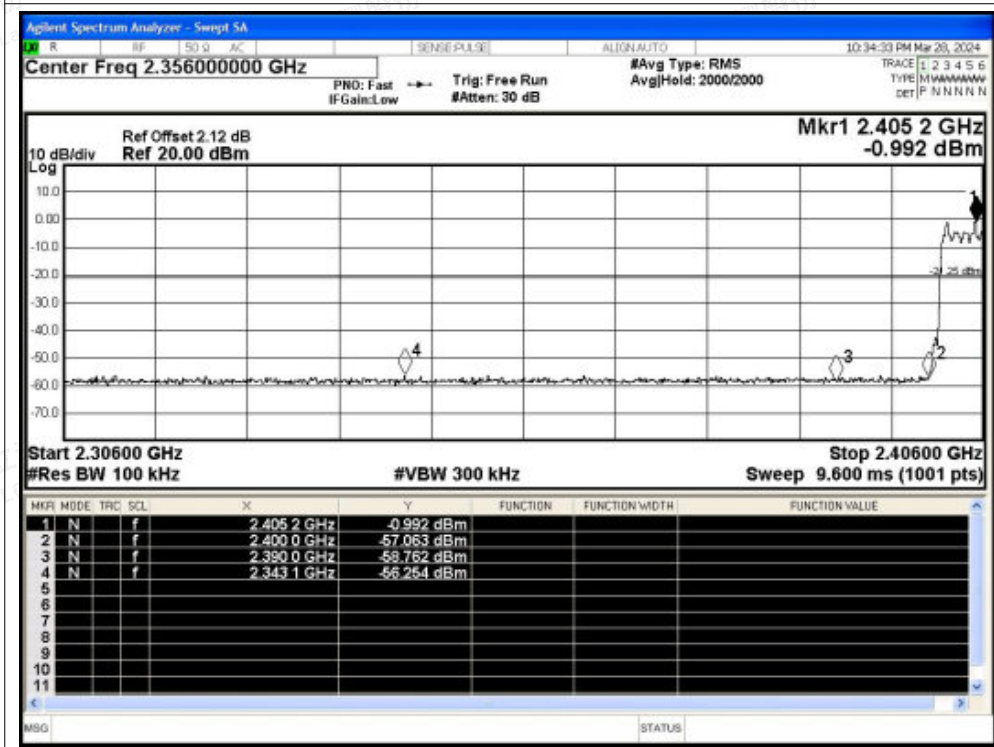




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

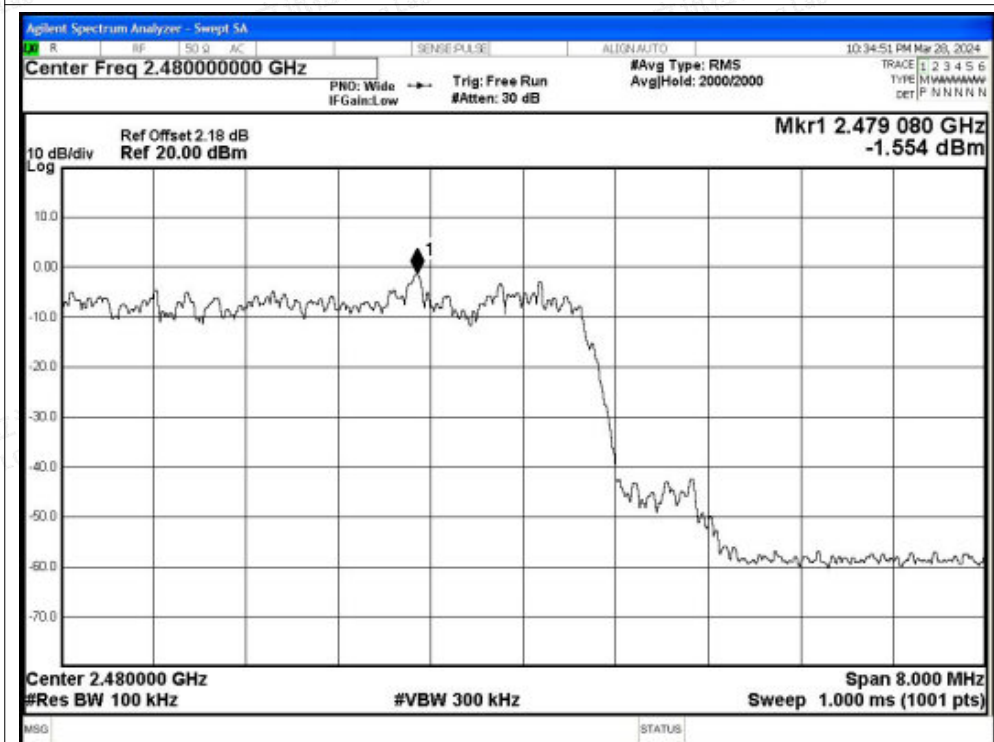


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

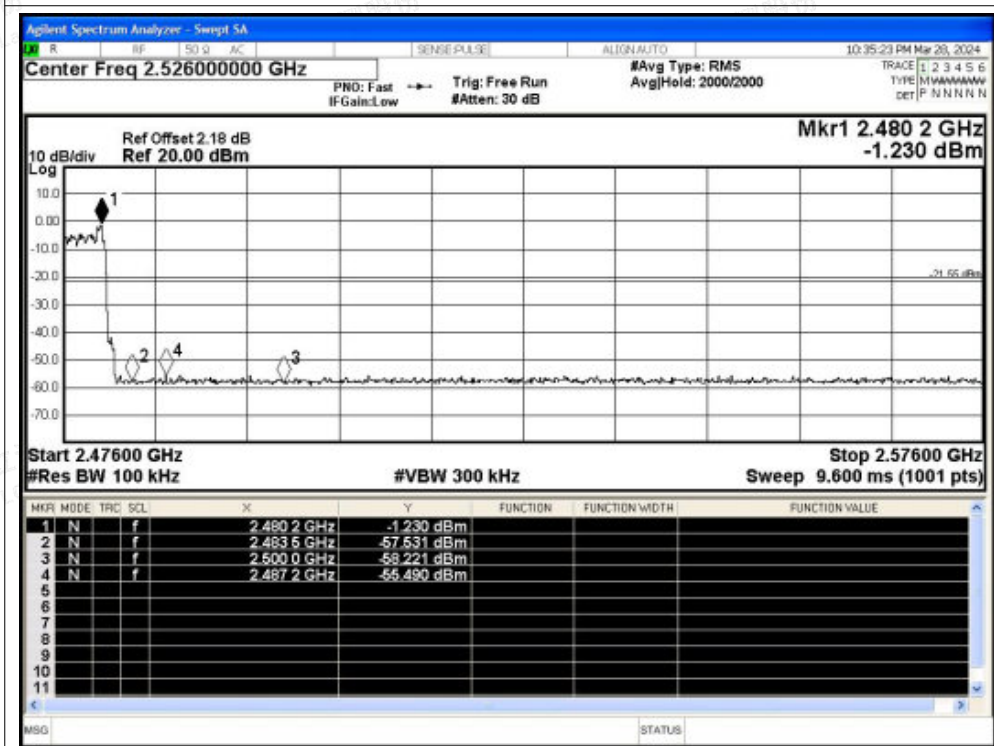




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

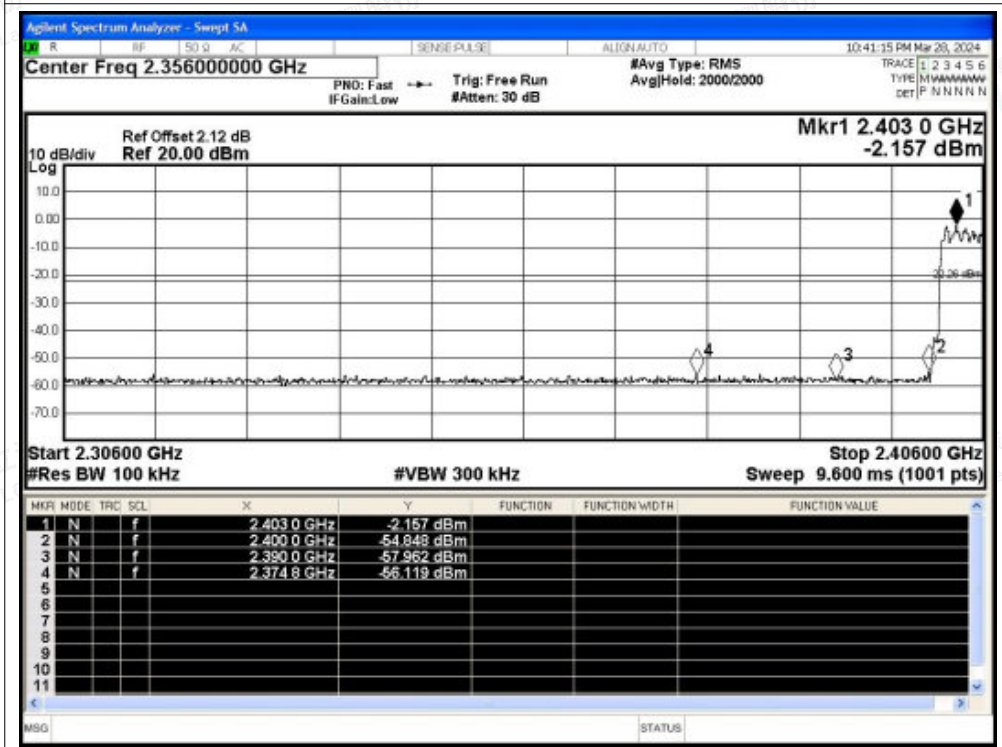




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

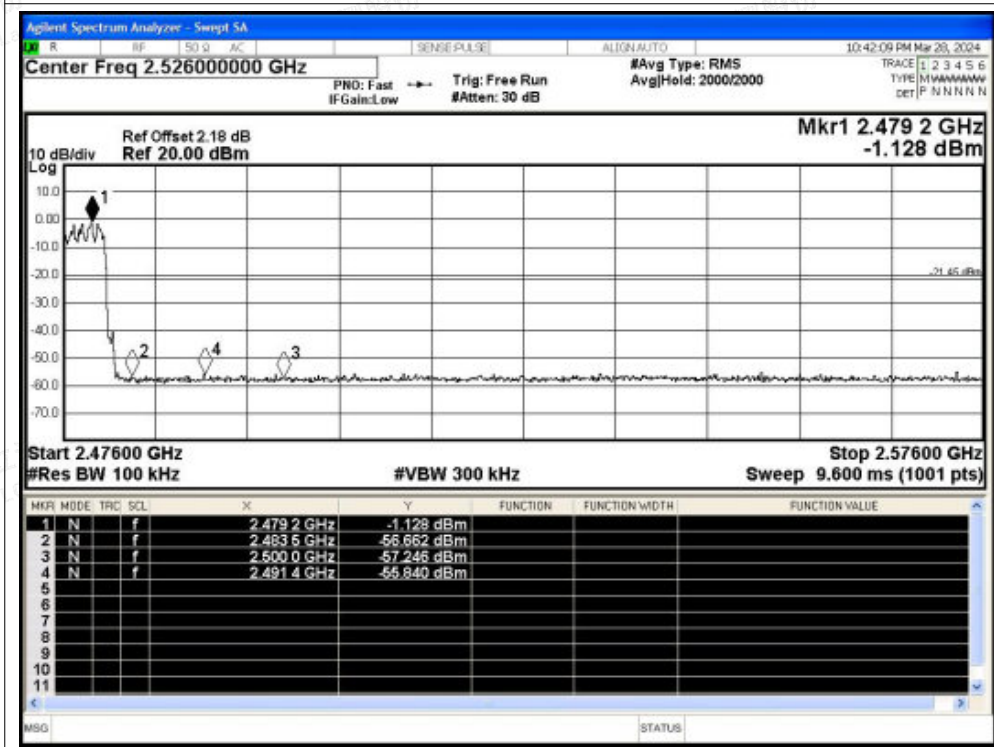




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-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	-54.74	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.41	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.83	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.05	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.66	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.63	-20	Pass
NVNT	3-DH5	2402	Ant1	-41.73	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.61	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.49	-20	Pass

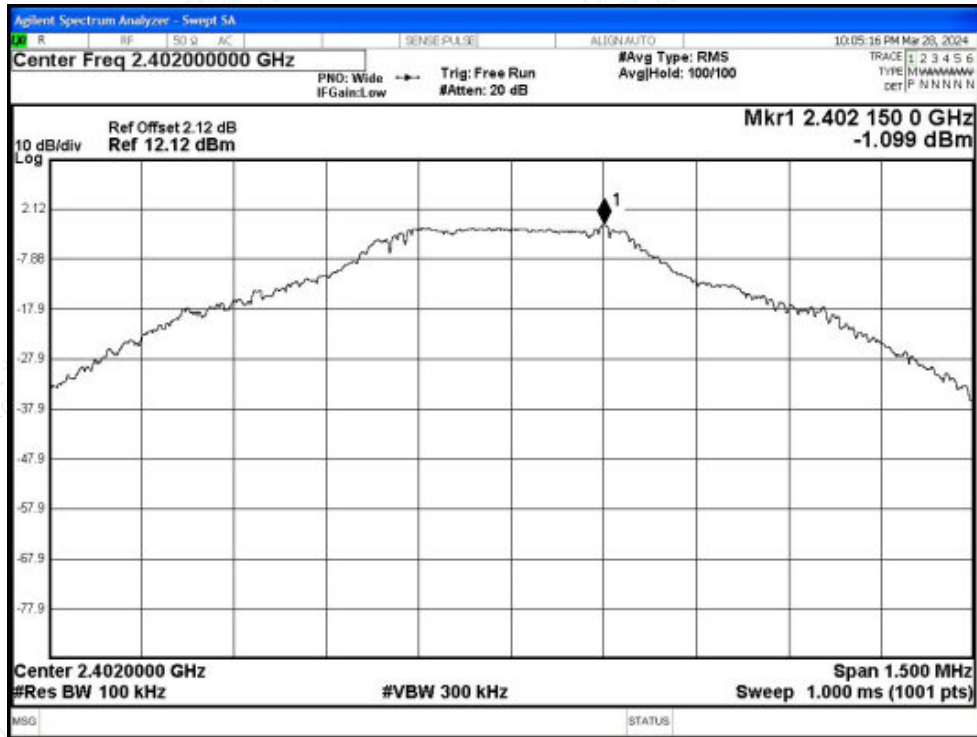


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Scan code to check authenticity

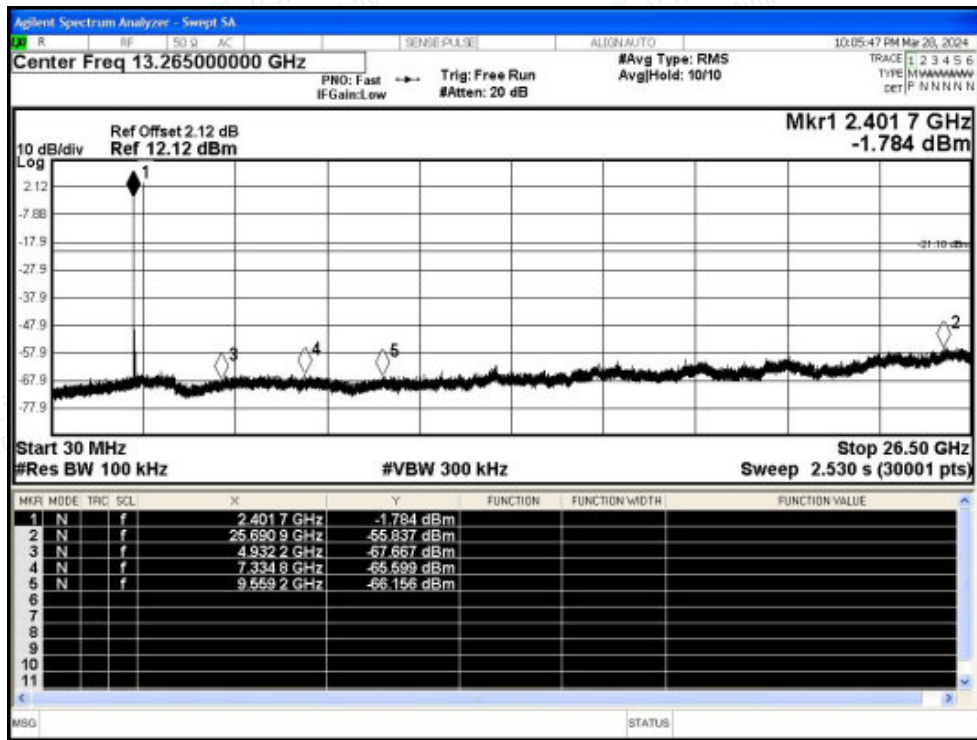


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

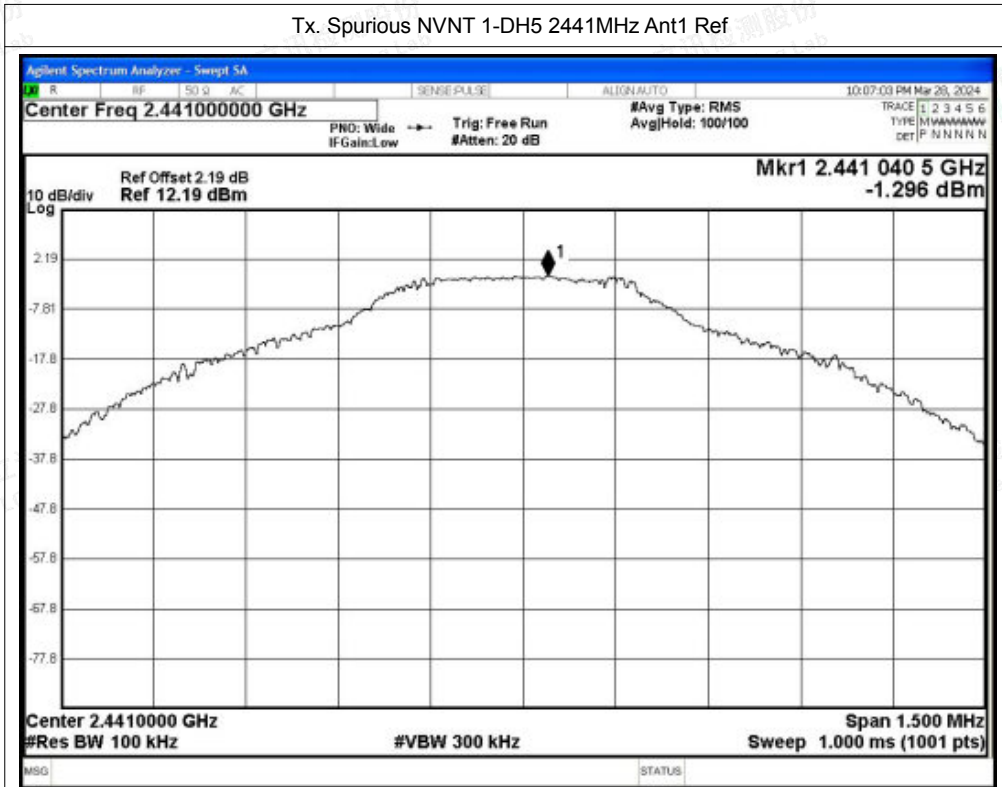


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

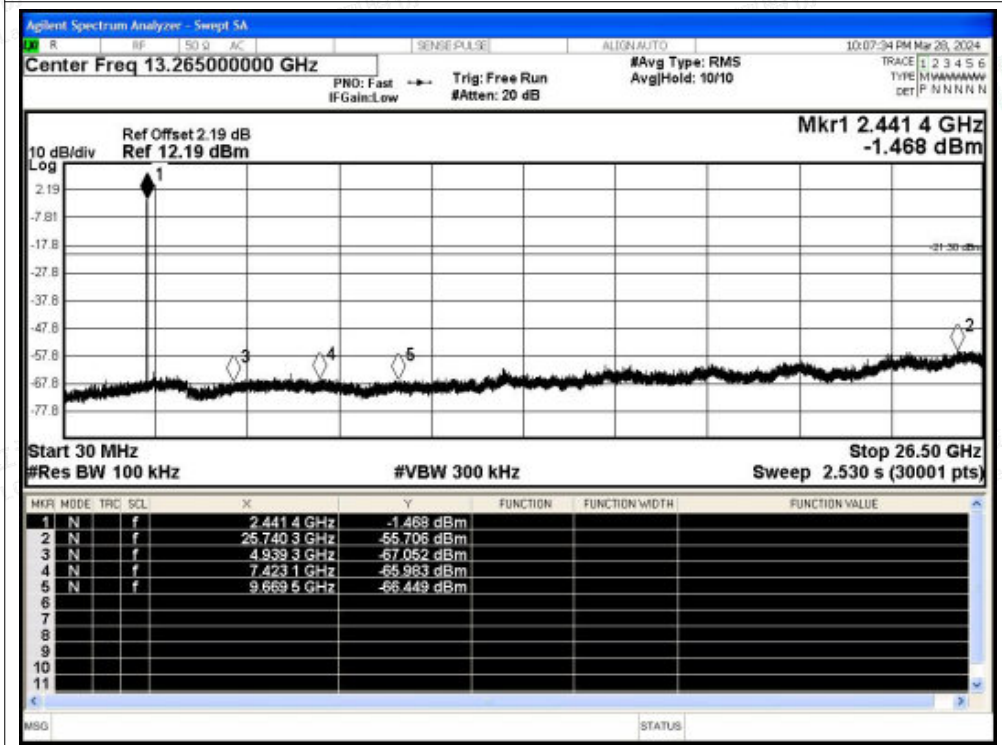




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

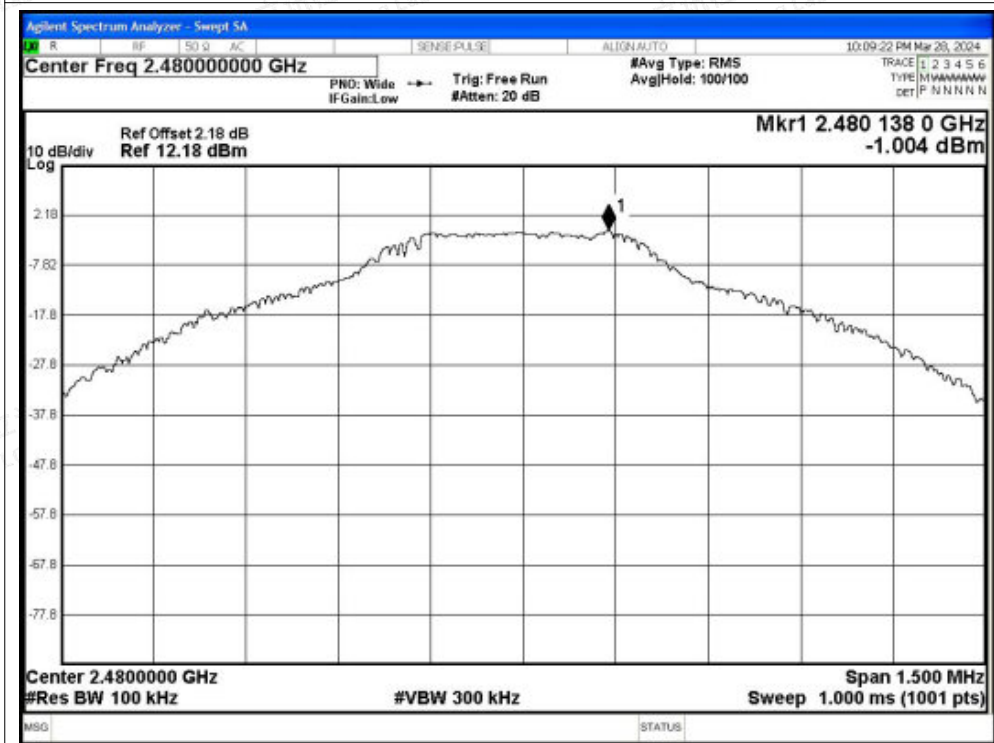


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

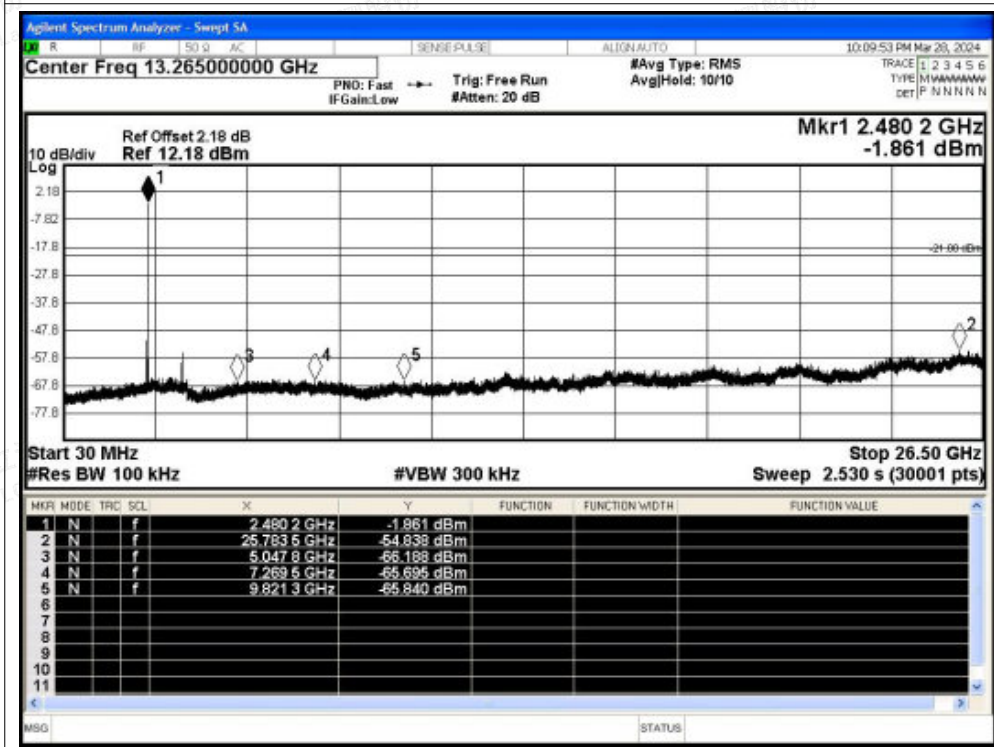




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

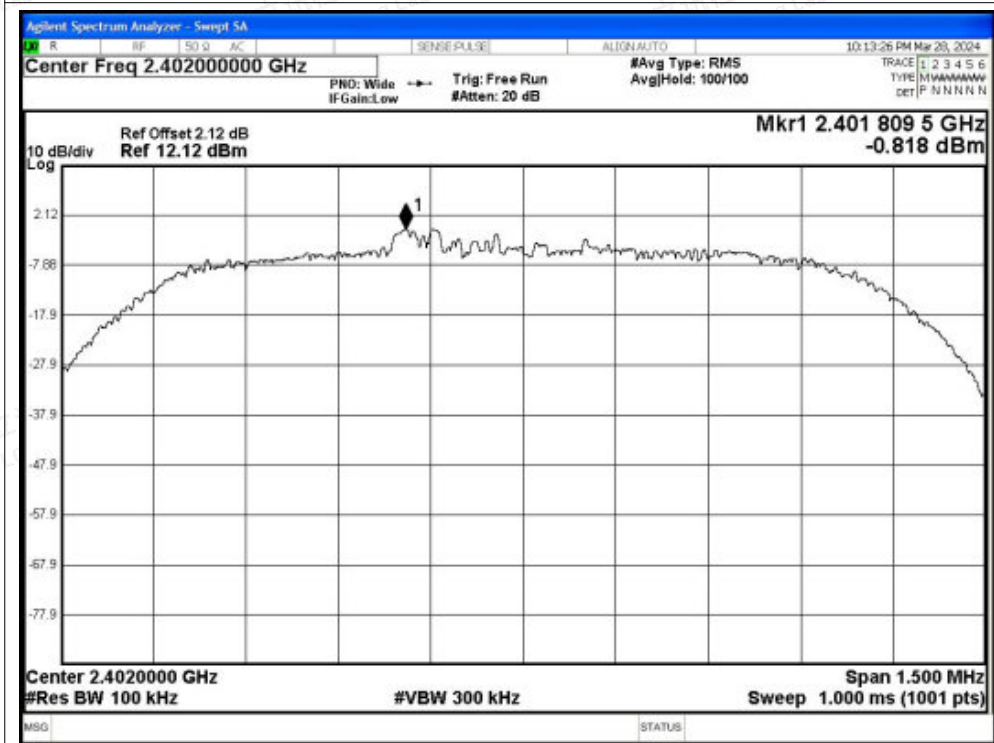


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

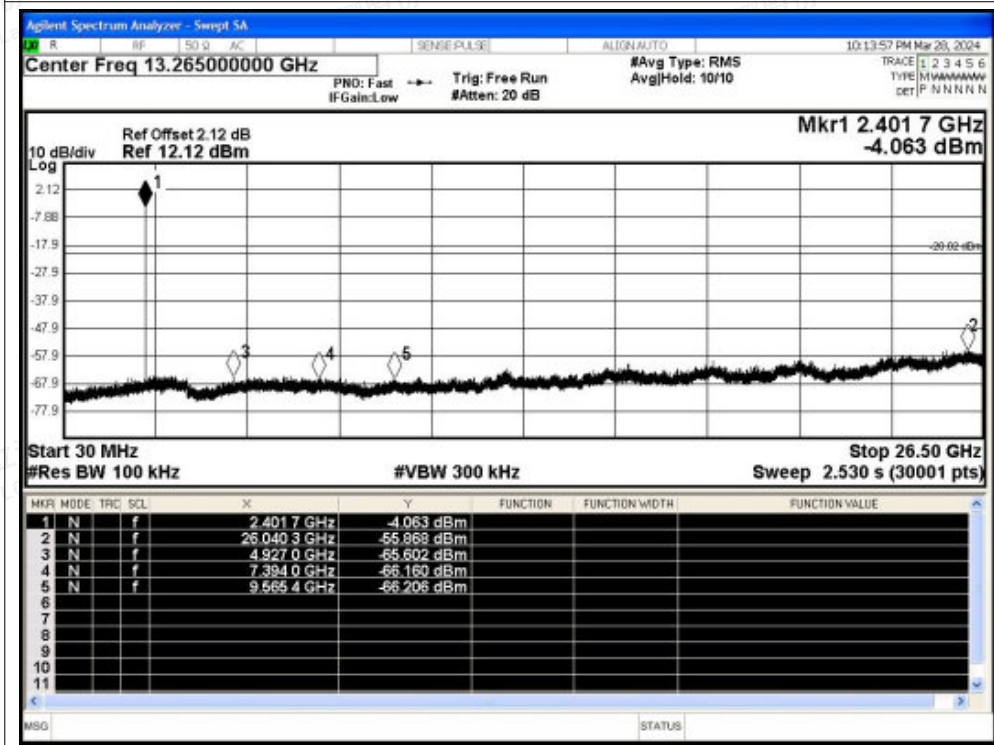




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

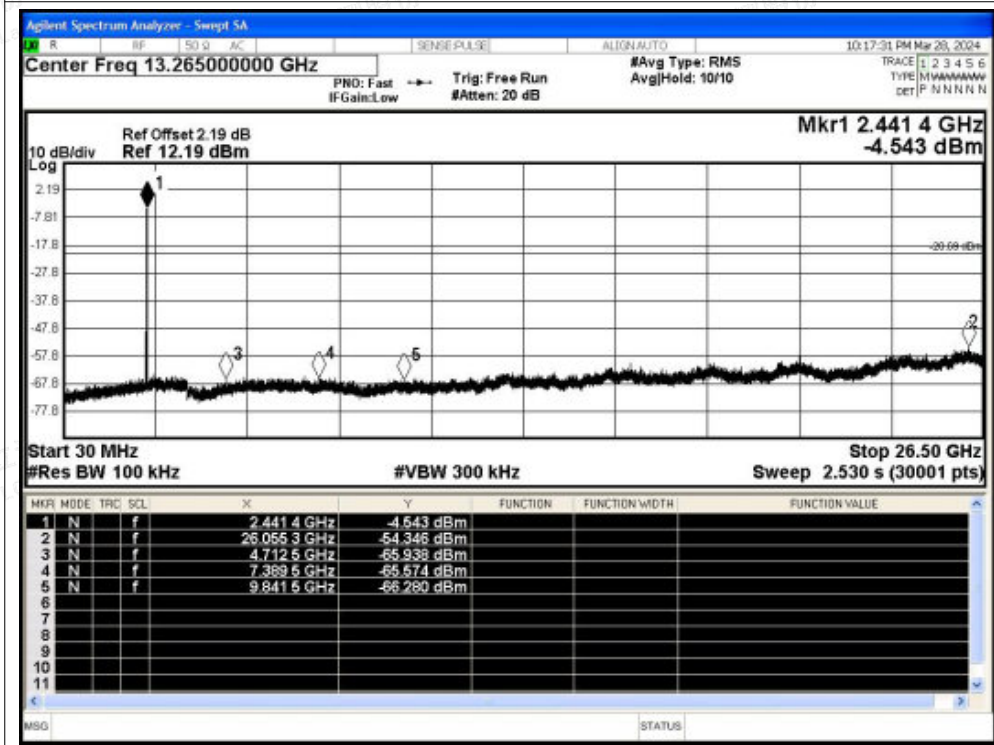




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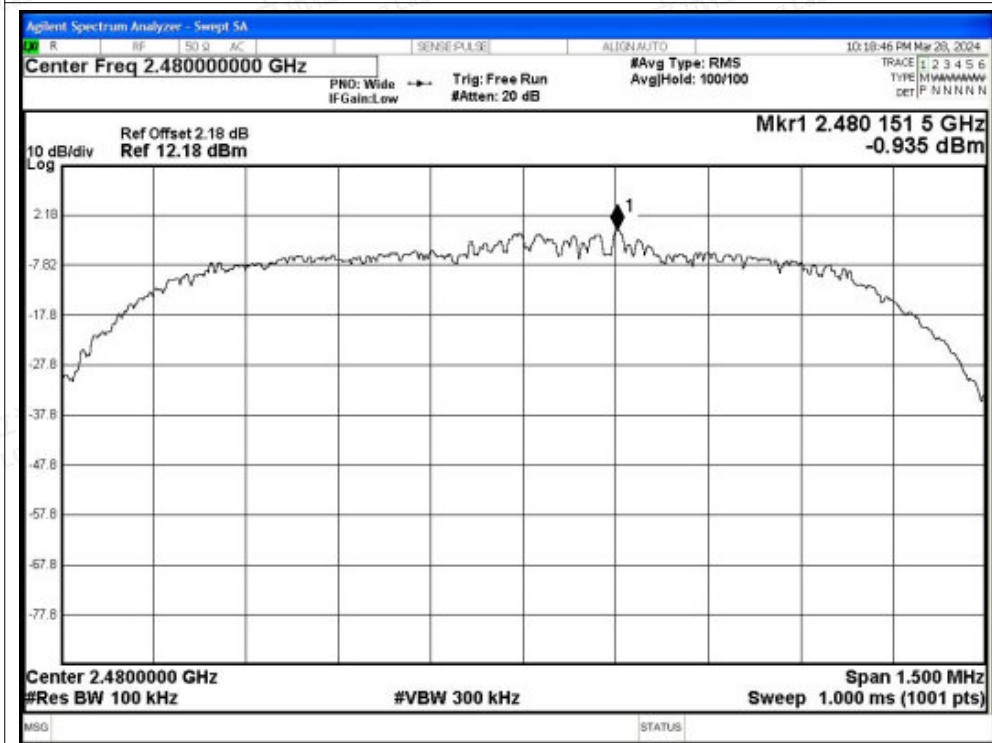


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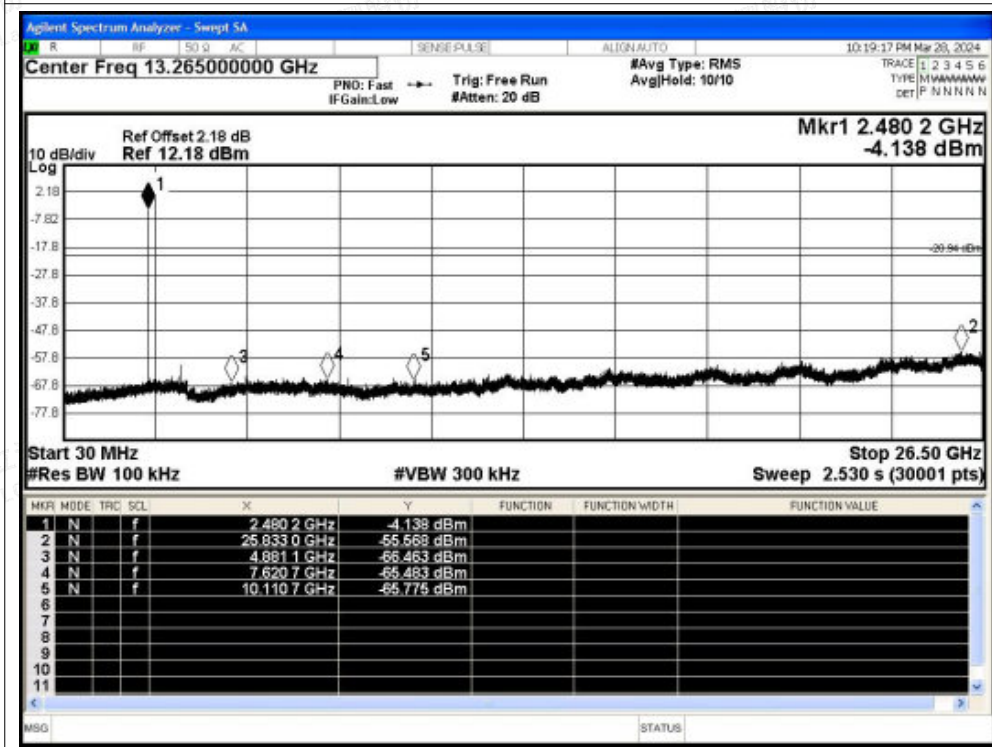




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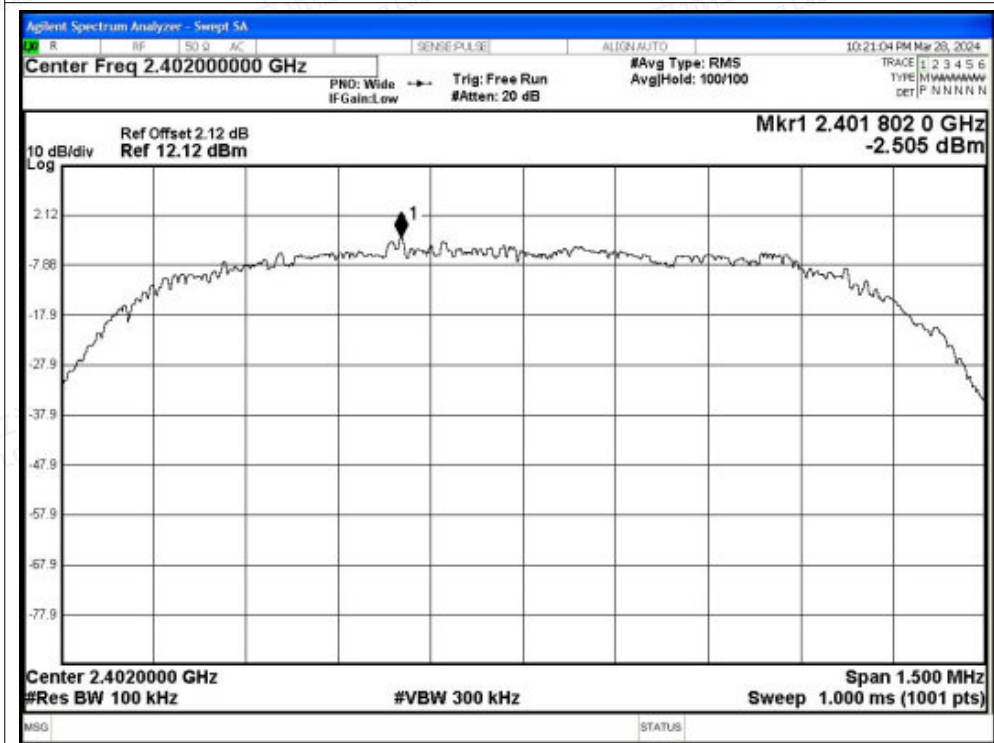


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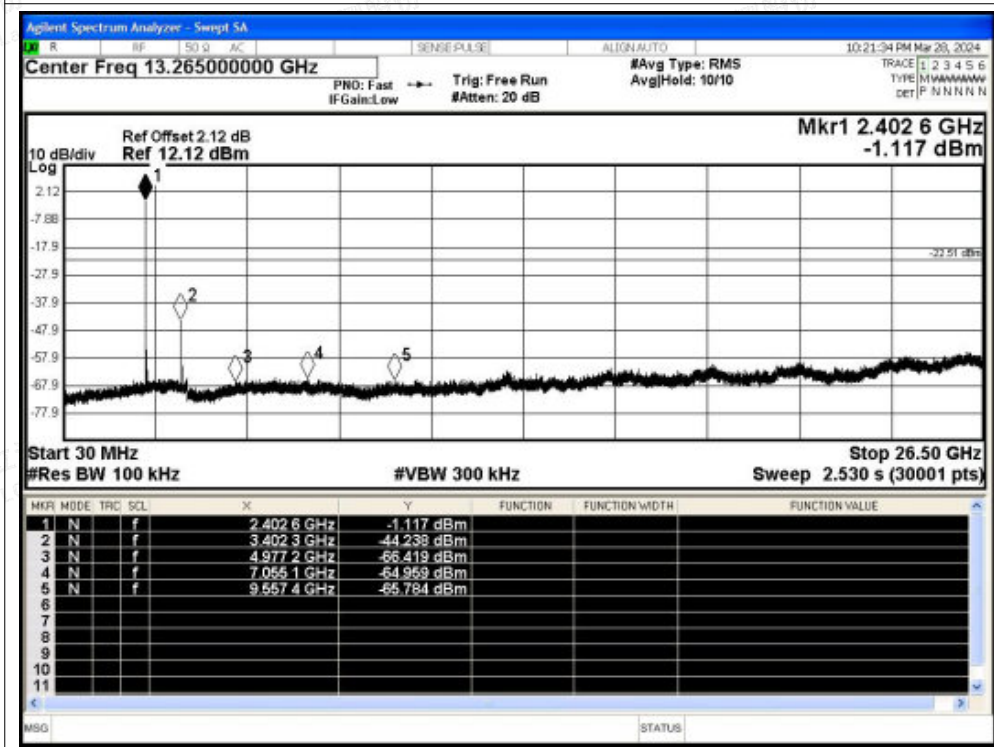




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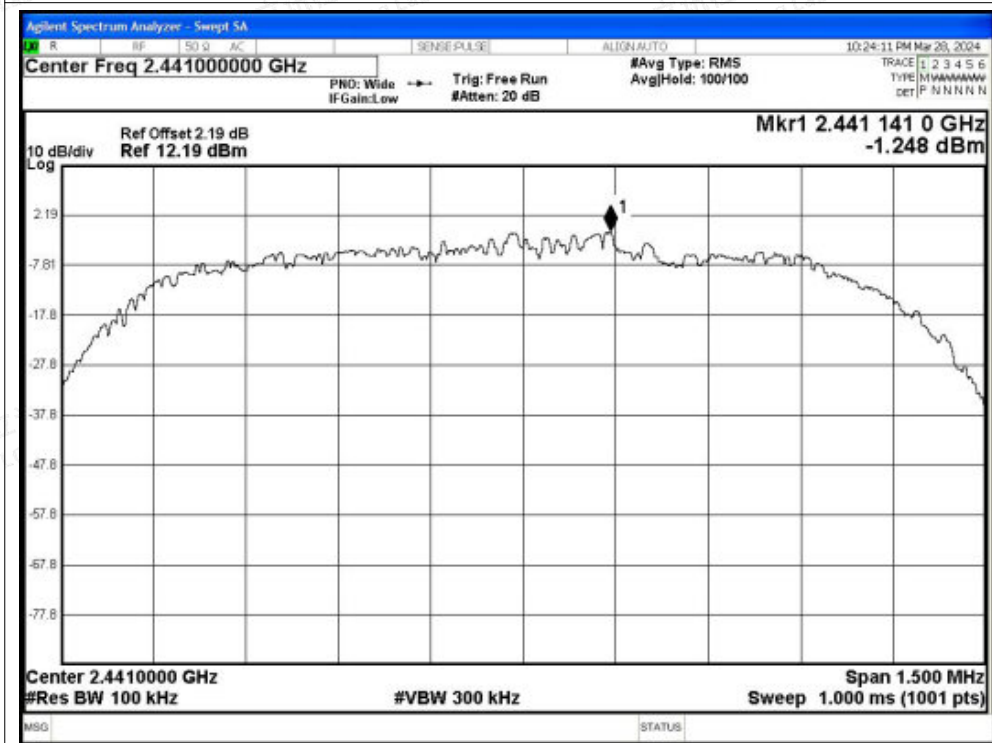


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

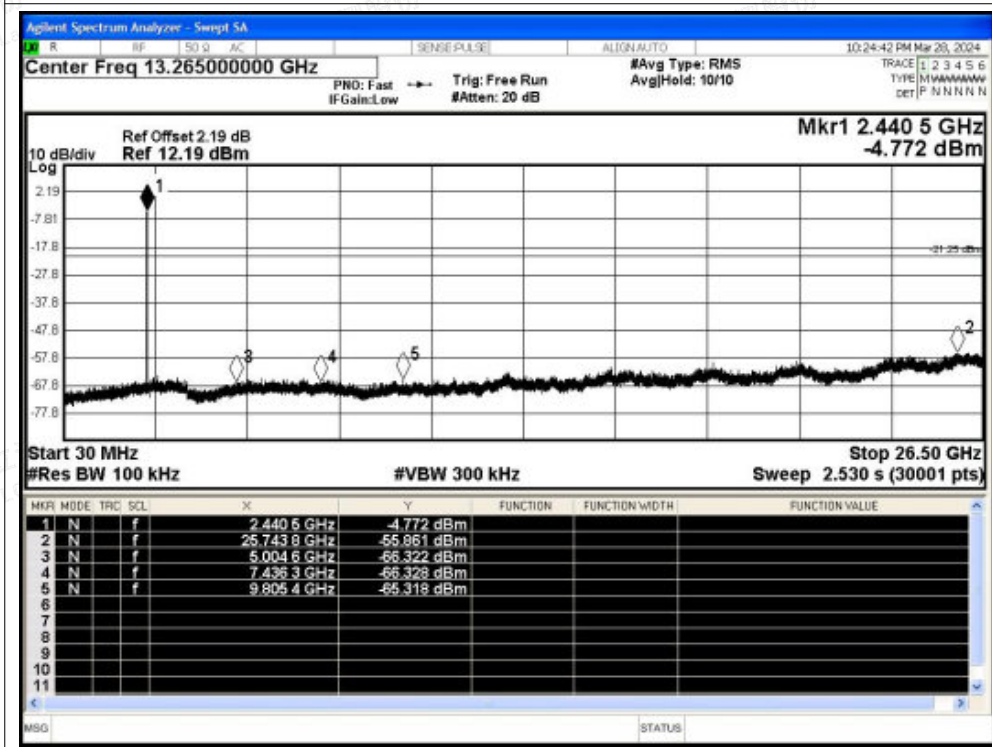




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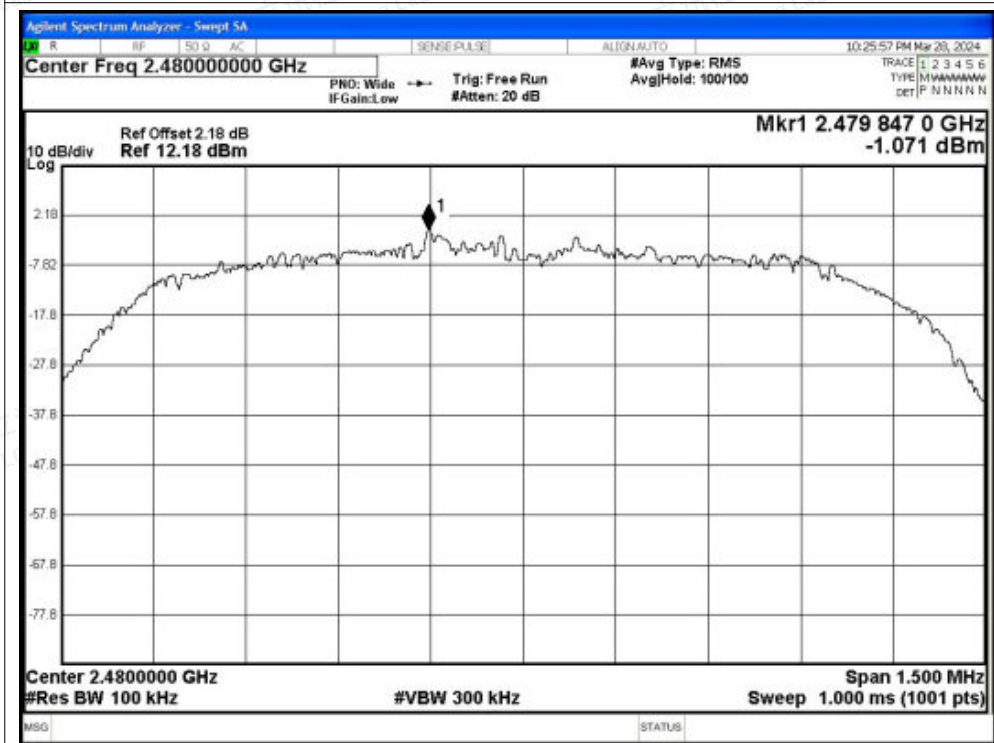


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

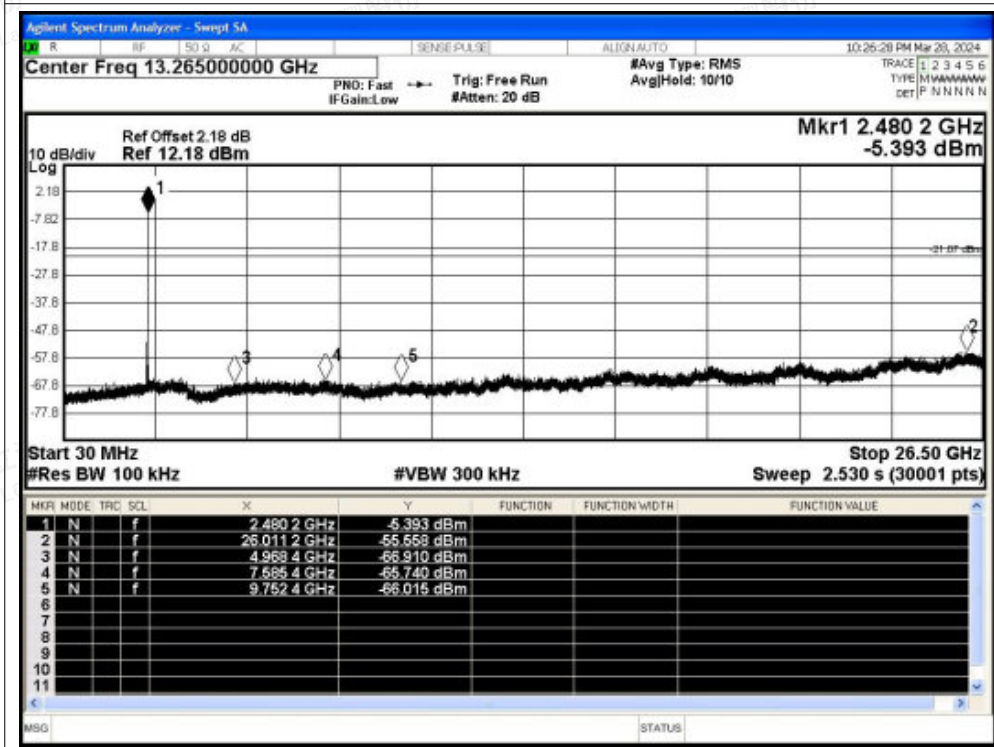




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-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	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.86	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35

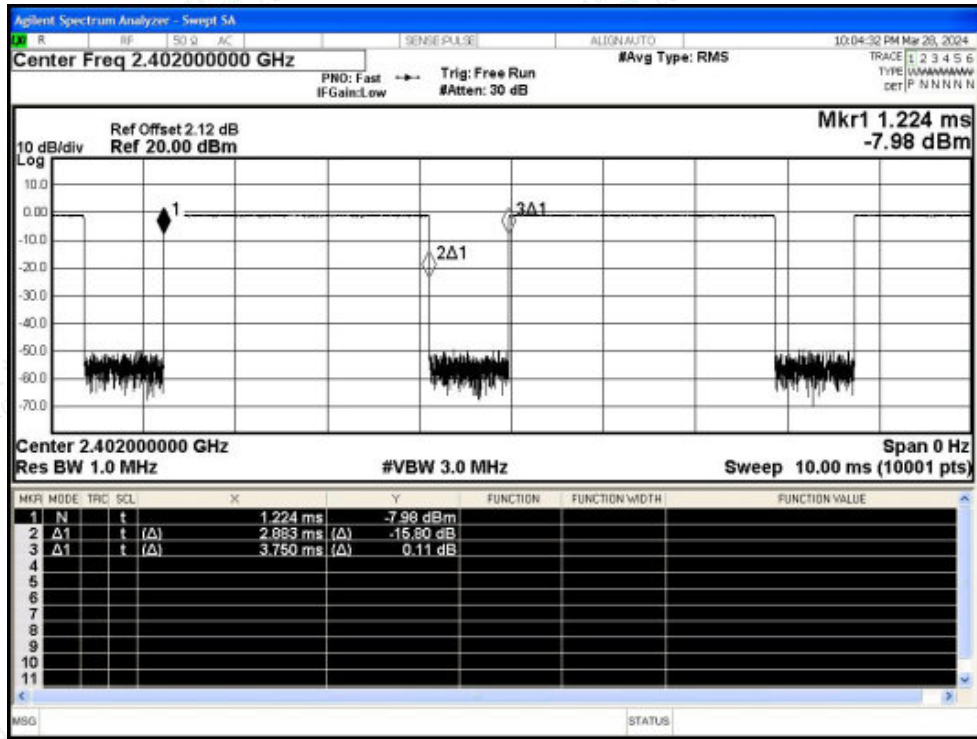


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

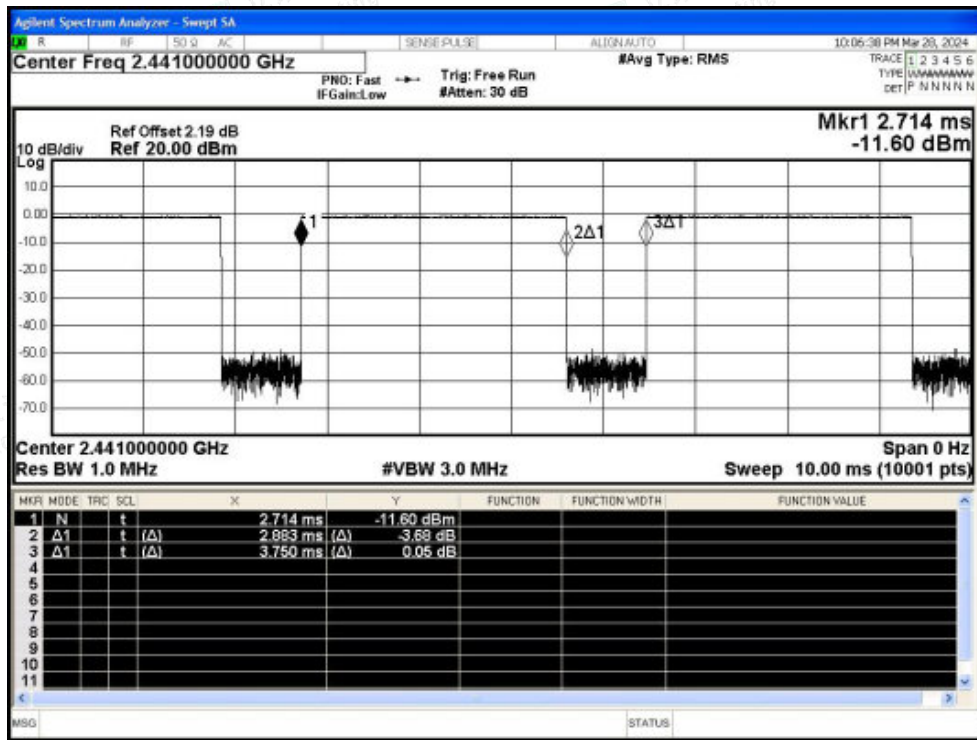


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

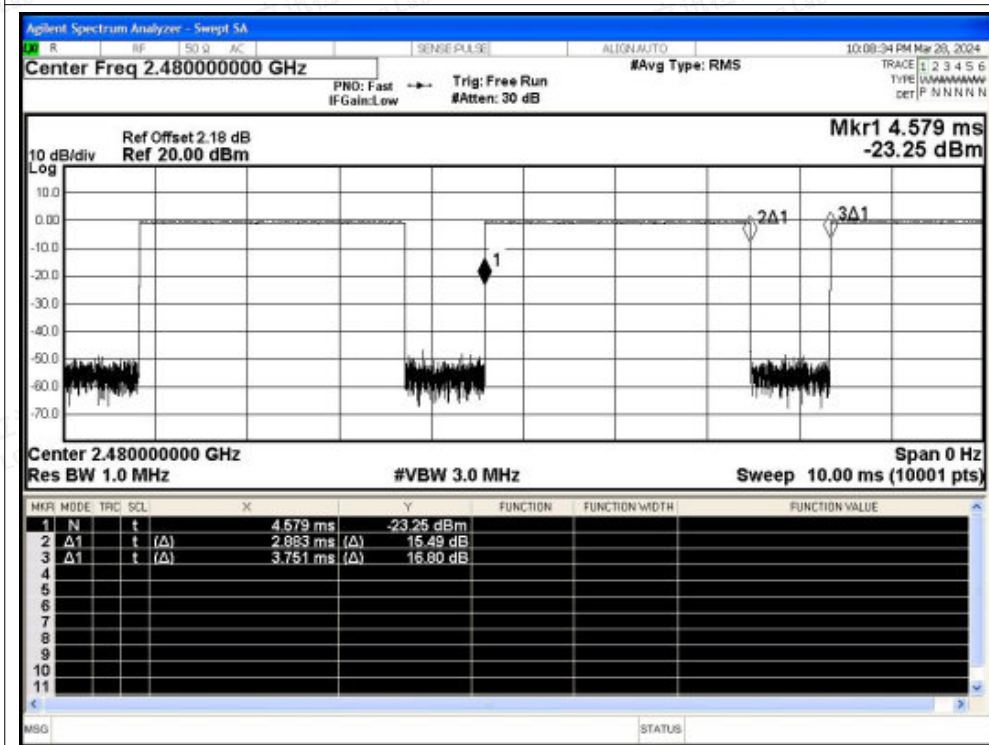


Duty Cycle NVNT 1-DH5 2441MHz Ant1

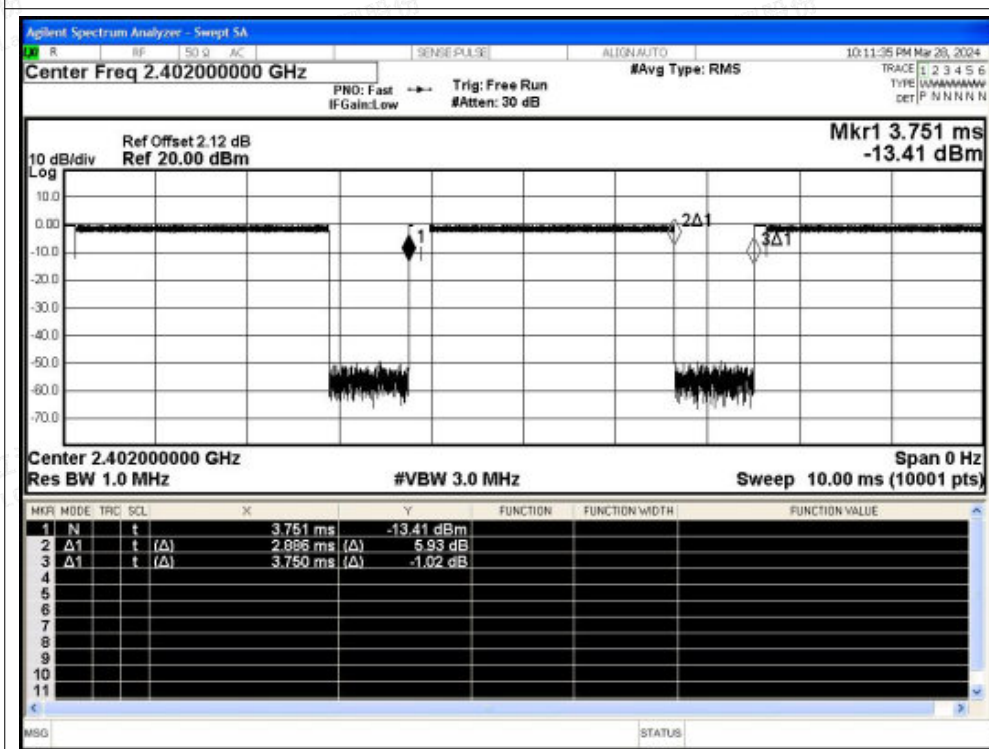




Duty Cycle NVNT 1-DH5 2480MHz Ant1

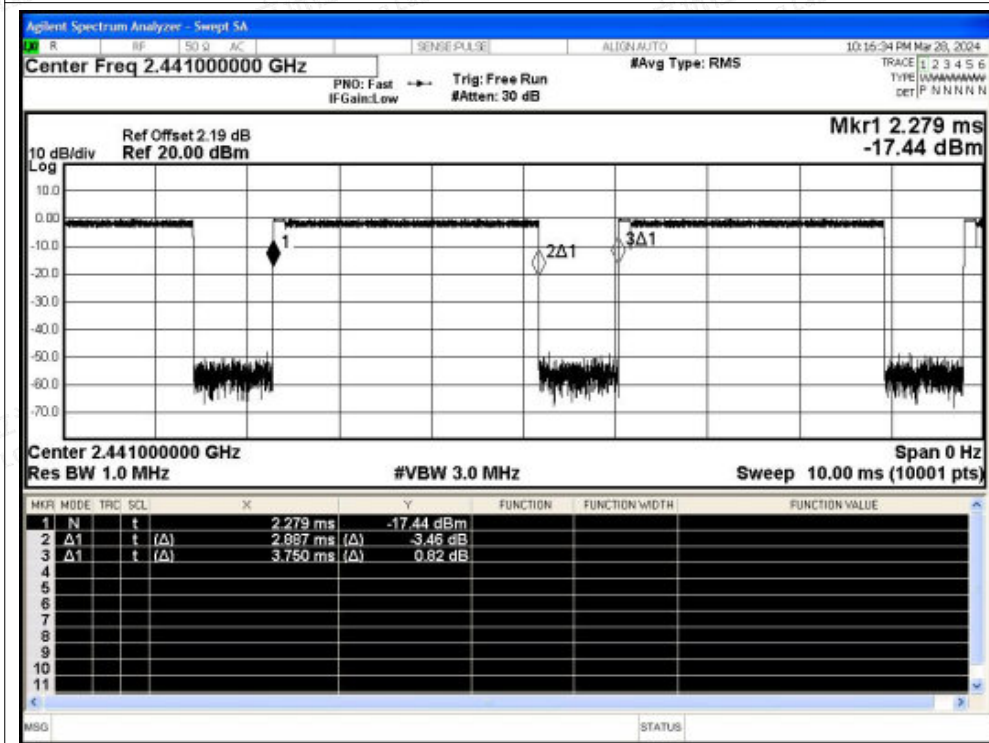


Duty Cycle NVNT 2-DH5 2402MHz Ant1

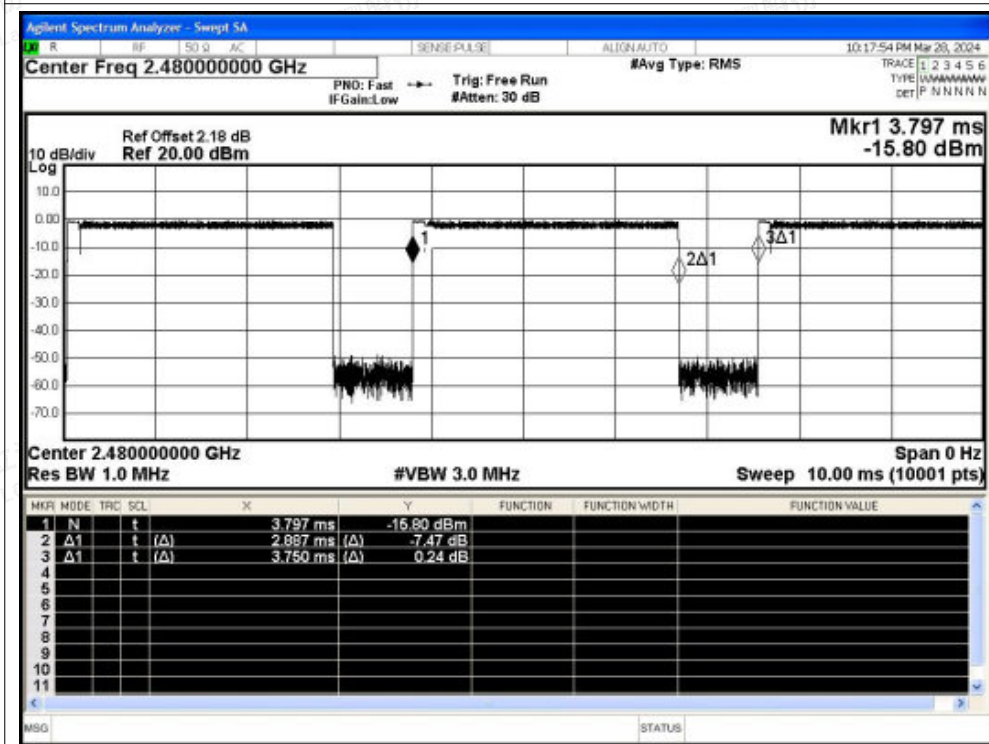




Duty Cycle NVNT 2-DH5 2441MHz Ant1

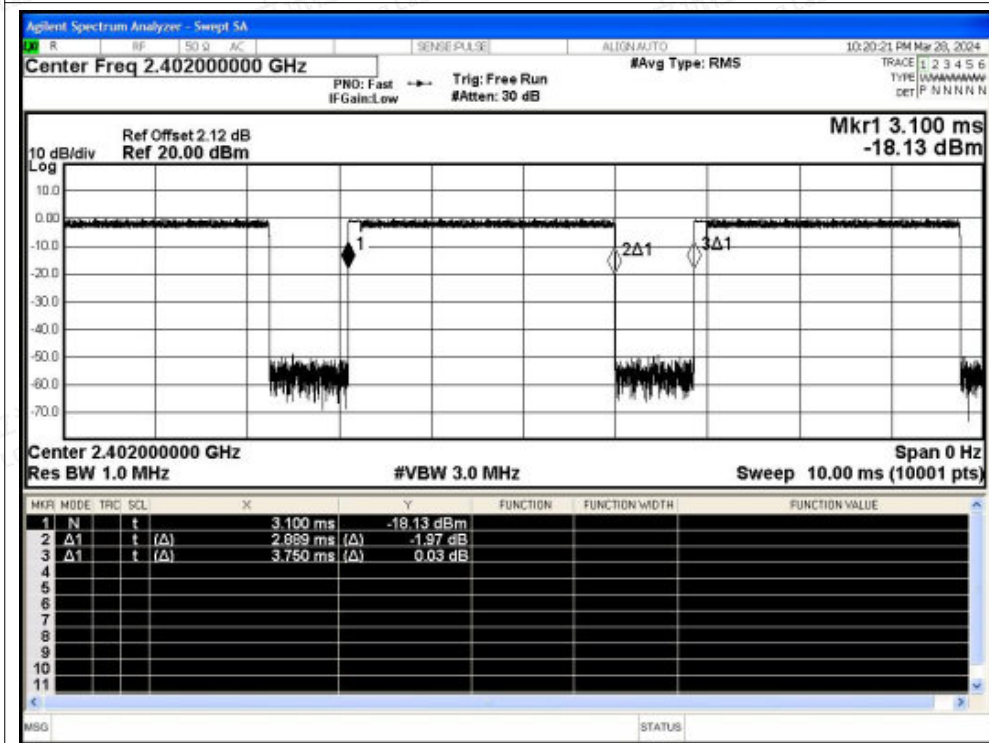


Duty Cycle NVNT 2-DH5 2480MHz Ant1

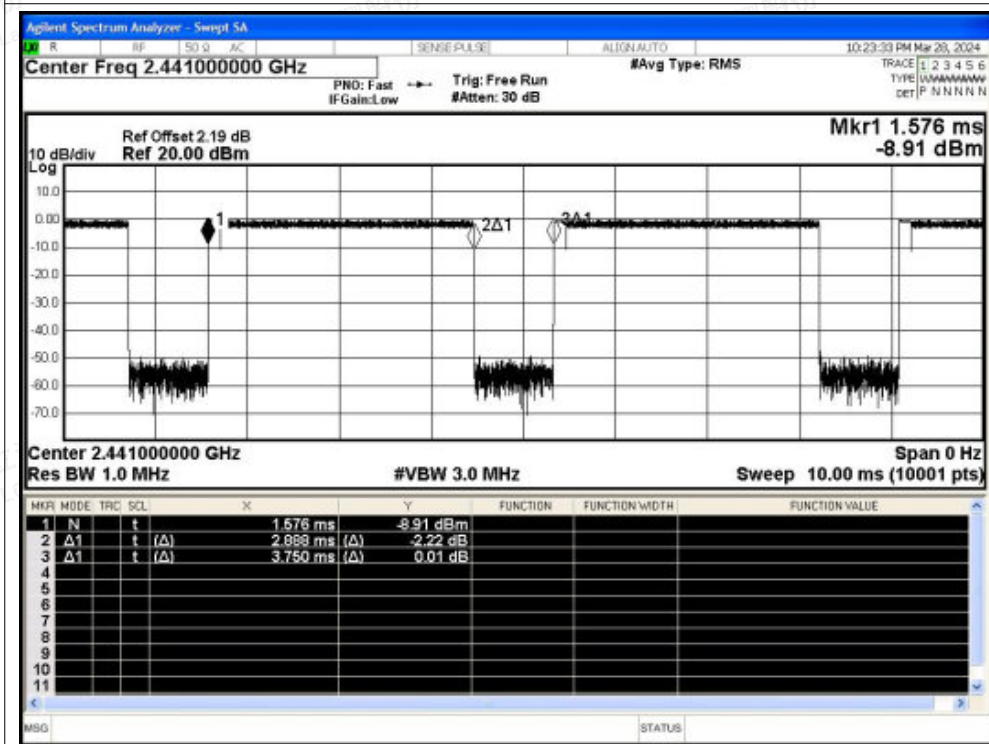




Duty Cycle NVNT 3-DH5 2402MHz Ant1

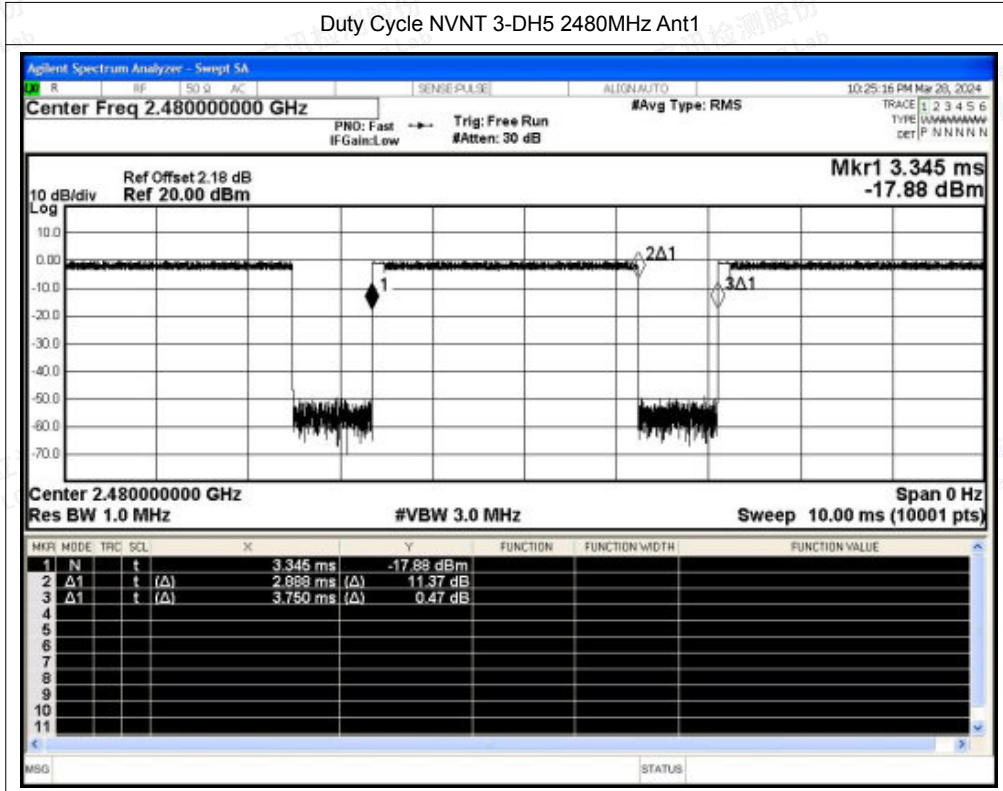


Duty Cycle NVNT 3-DH5 2441MHz Ant1





Duty Cycle NVNT 3-DH5 2480MHz Ant1





A.9 Restrict Band

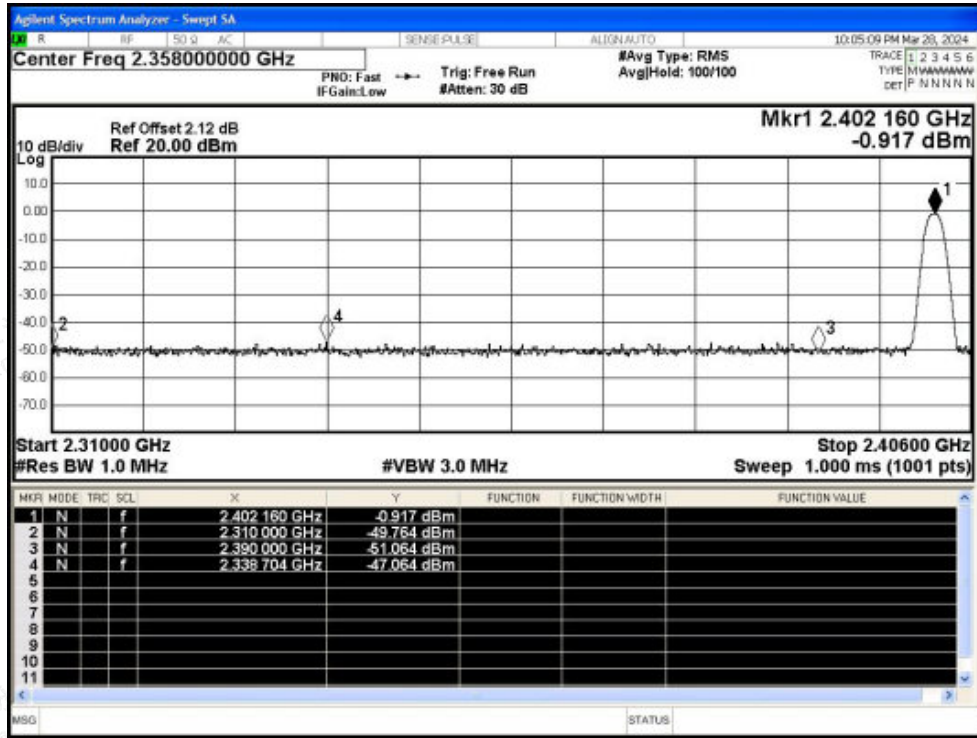
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.76	2	-	47.5	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.49	2	1.14	39.91	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.704	-47.06	2	-	50.2	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.128	-57.81	2	1.14	40.59	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.06	2	-	46.2	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.34	2	1.14	40.06	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.15	2	-	47.11	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.1	2	1.14	40.3	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.416	-46.8	2	-	50.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.904	-57.14	2	1.14	41.26	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.65	2	-	46.61	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.79	2	1.14	40.61	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.7	2	-	47.56	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.89	2	1.14	39.51	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2333.424	-46.83	2	-	50.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.68	-57.67	2	1.14	40.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.46	2	-	46.8	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.2	2	1.14	40.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.08	2	-	46.18	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.94	2	1.14	40.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.44	-47.38	2	-	49.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.992	-57.21	2	1.14	41.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.82	2	-	45.44	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.9	2	1.14	40.5	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.22	2	-	47.04	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.59	2	1.13	39.8	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2381.424	-47.18	2	-	50.08	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.76	-57.51	2	1.13	40.88	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.93	2	-	46.33	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.48	2	1.13	39.91	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.89	2	-	47.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.91	2	1.13	40.48	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2489.128	-47.29	2	-	49.97	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485	-57.12	2	1.13	41.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.24	2	-	49.02	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.91	2	1.13	40.48	Average	54	Pass



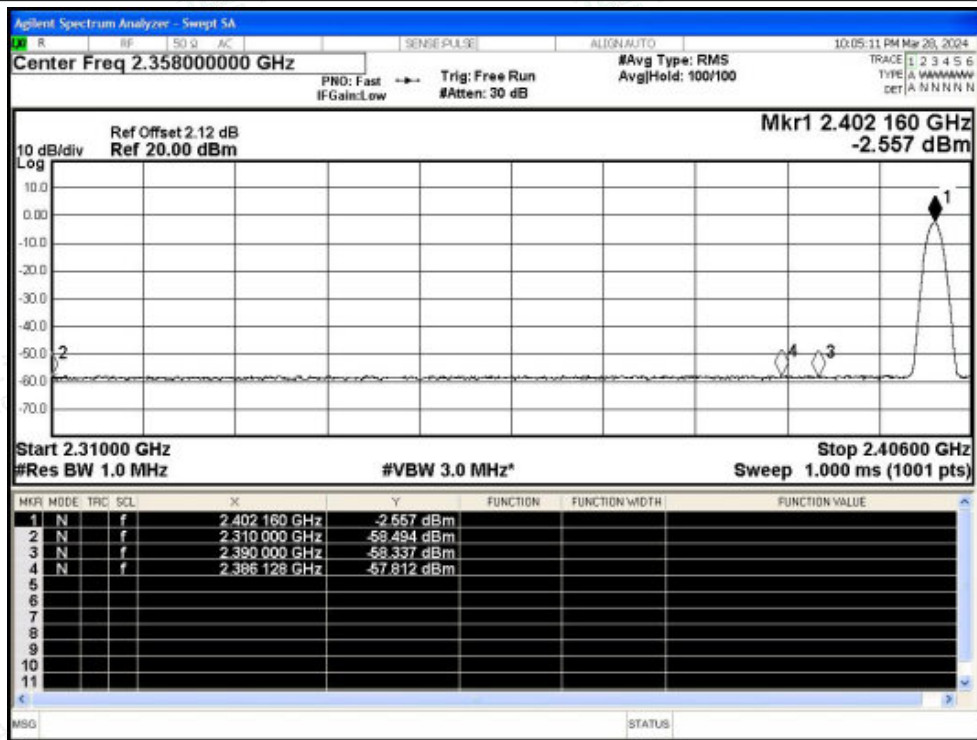


Test Graphs

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

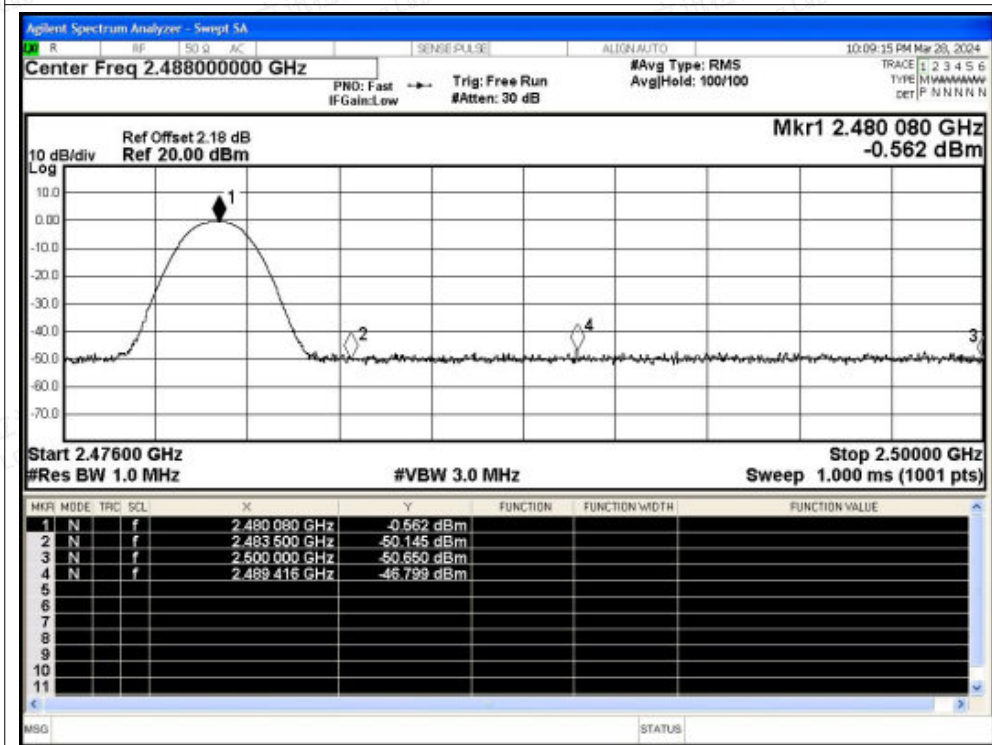


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

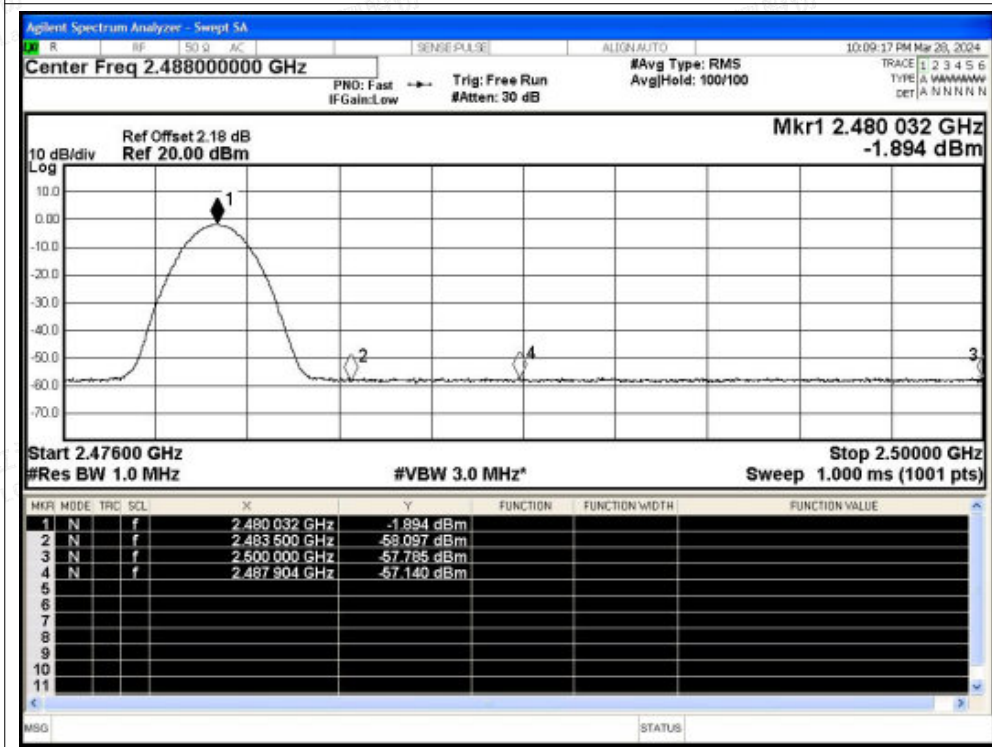




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

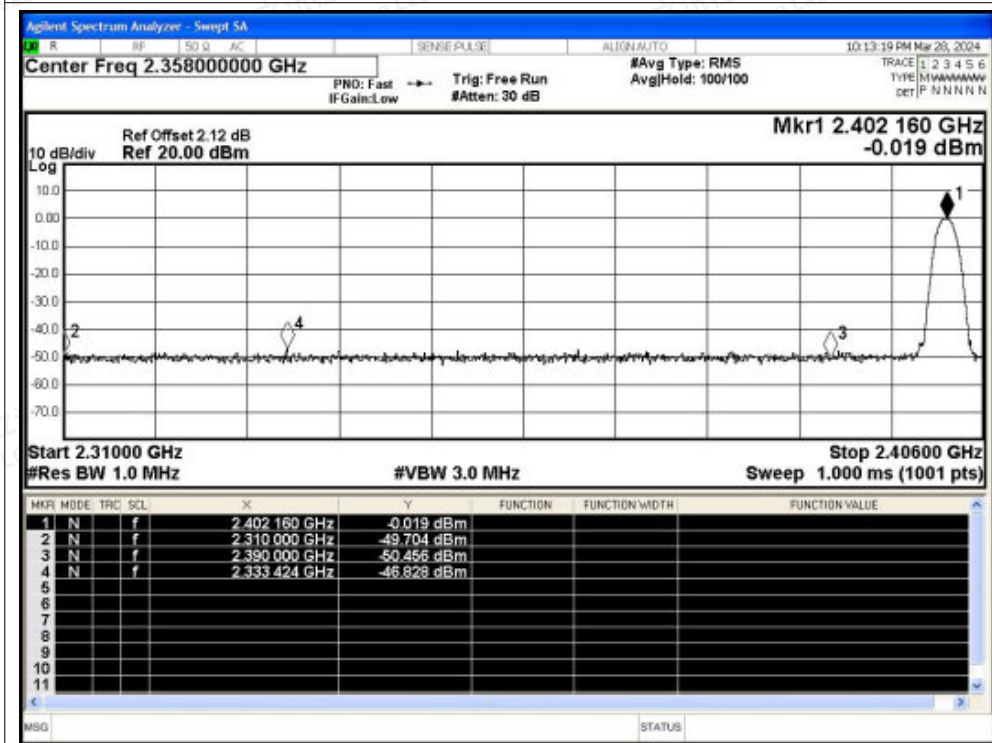


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

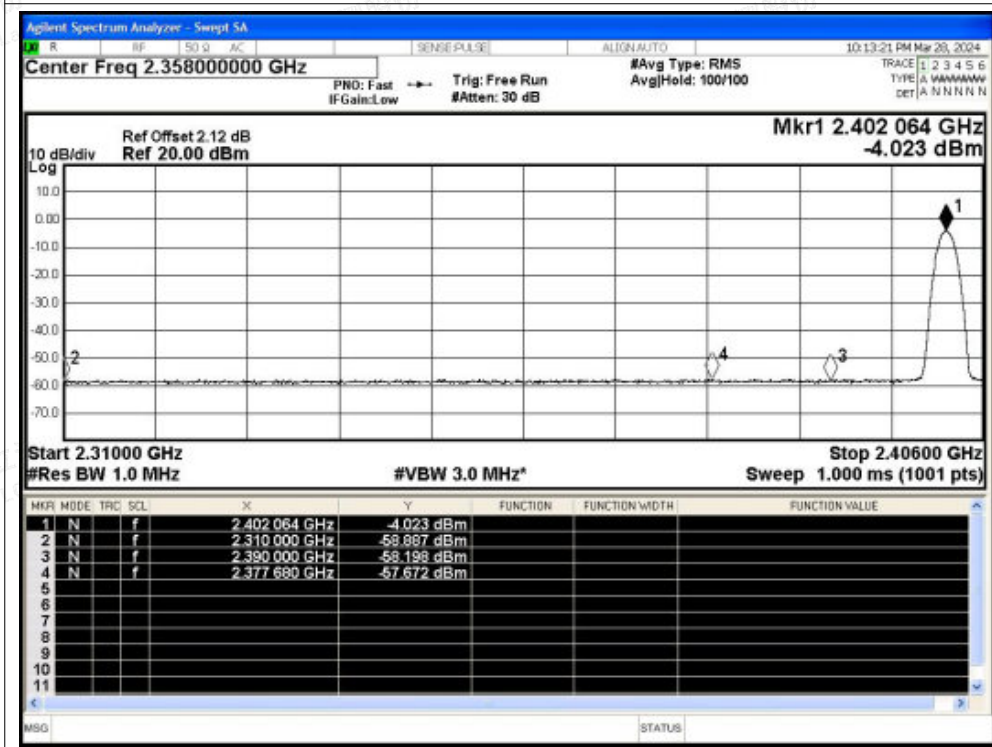




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

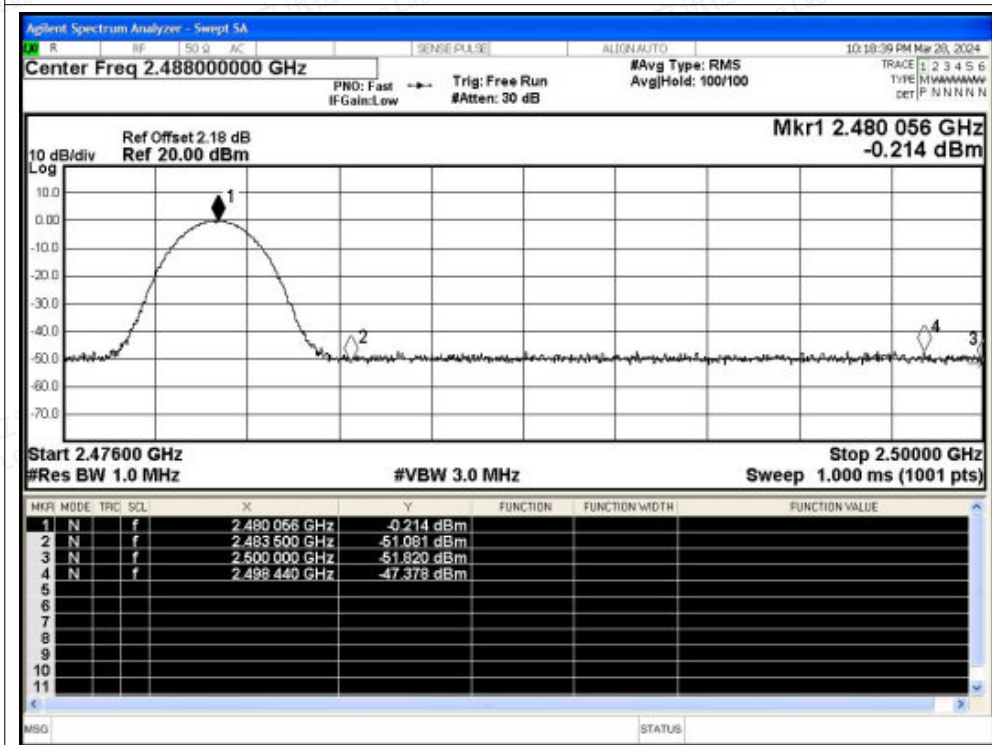


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

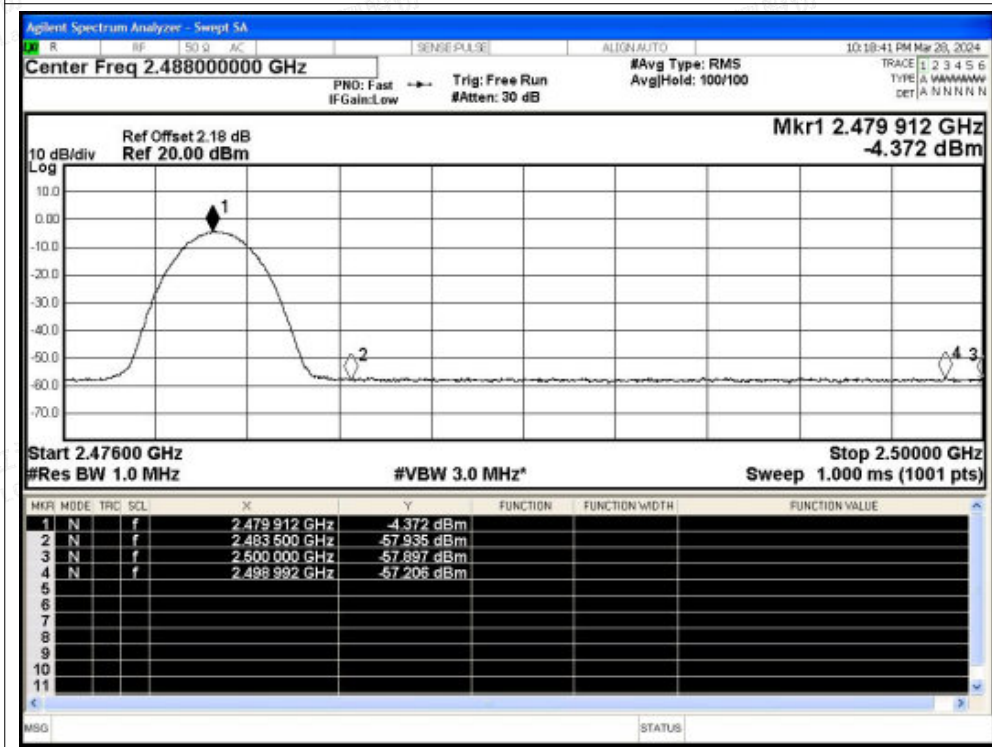




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

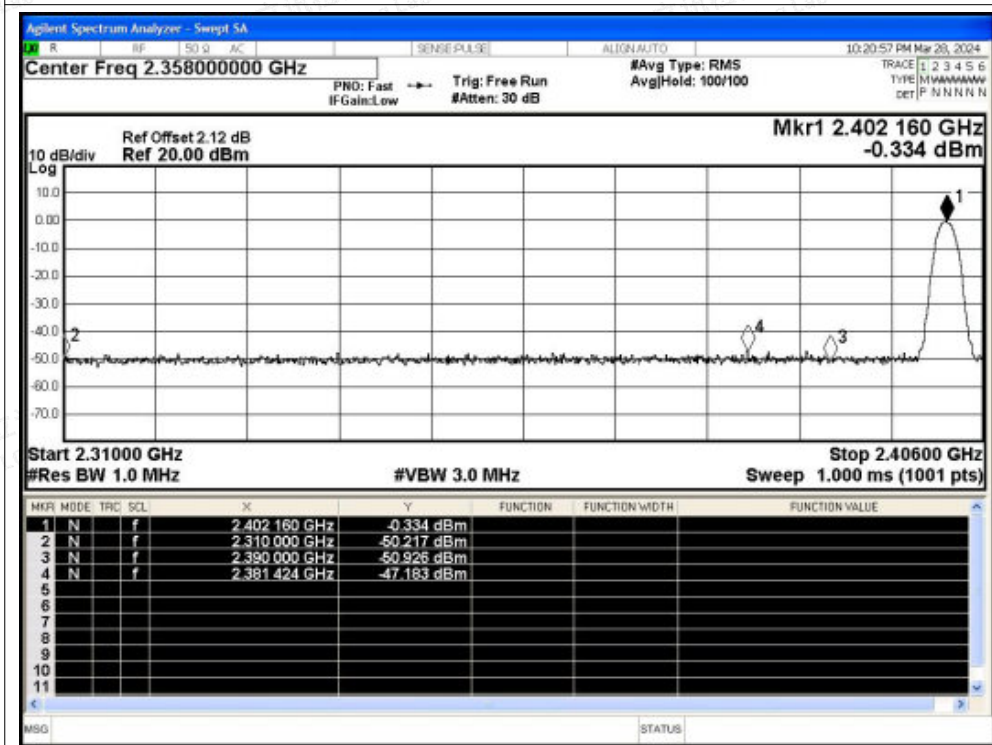


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

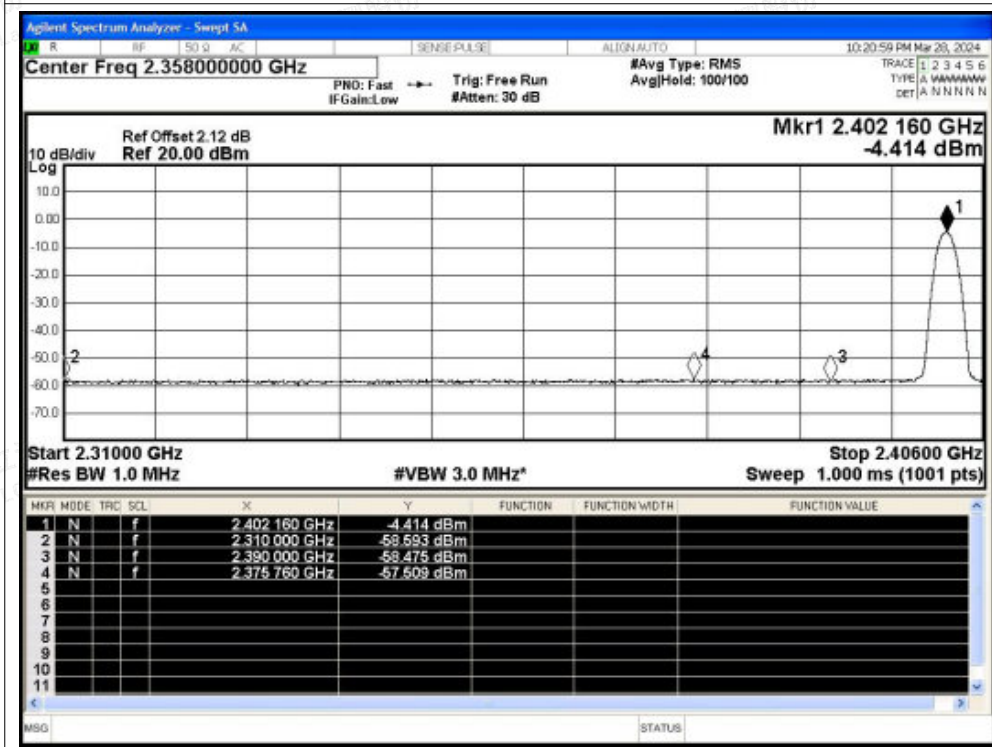




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

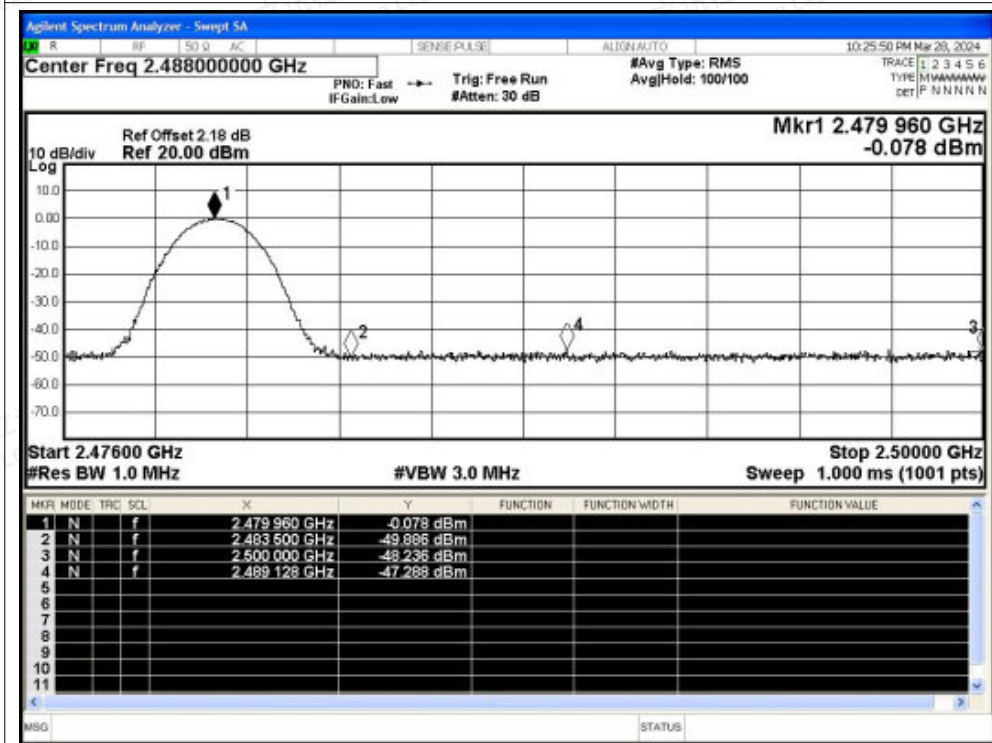


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

