



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: Q7

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	1.002	N/A	Pass
NVNT	1-DH5	2441	Ant	0.953	N/A	Pass
NVNT	1-DH5	2480	Ant	1.027	N/A	Pass
NVNT	2-DH5	2402	Ant	1.314	N/A	Pass
NVNT	2-DH5	2441	Ant	1.29	N/A	Pass
NVNT	2-DH5	2480	Ant	1.326	N/A	Pass
NVNT	3-DH5	2402	Ant	1.301	N/A	Pass
NVNT	3-DH5	2441	Ant	1.297	N/A	Pass
NVNT	3-DH5	2480	Ant	1.301	N/A	Pass



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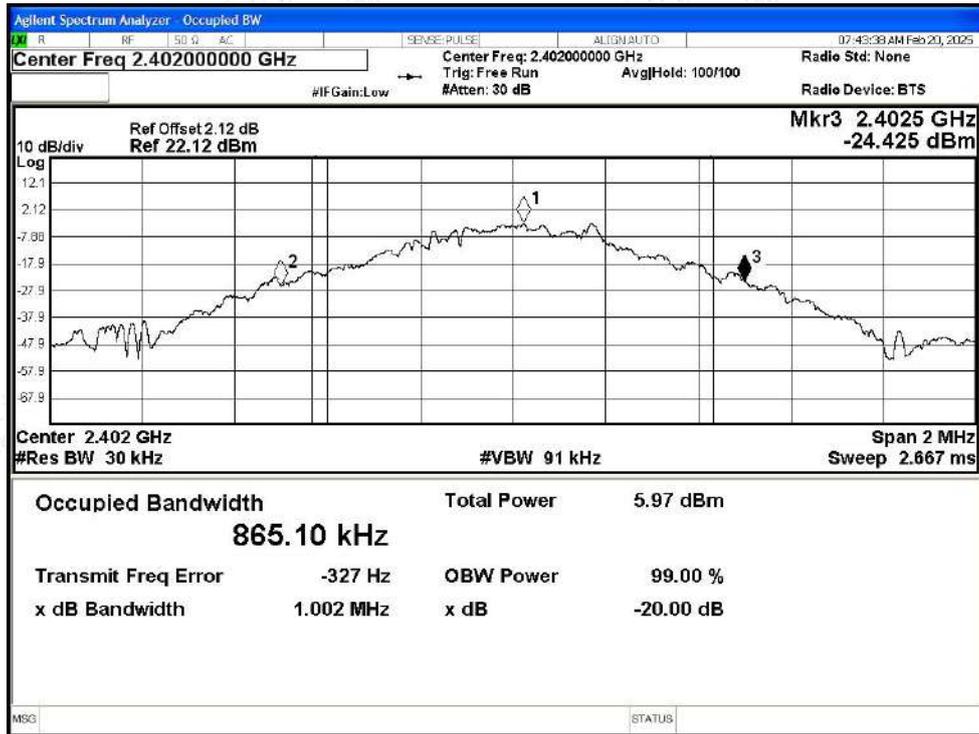
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

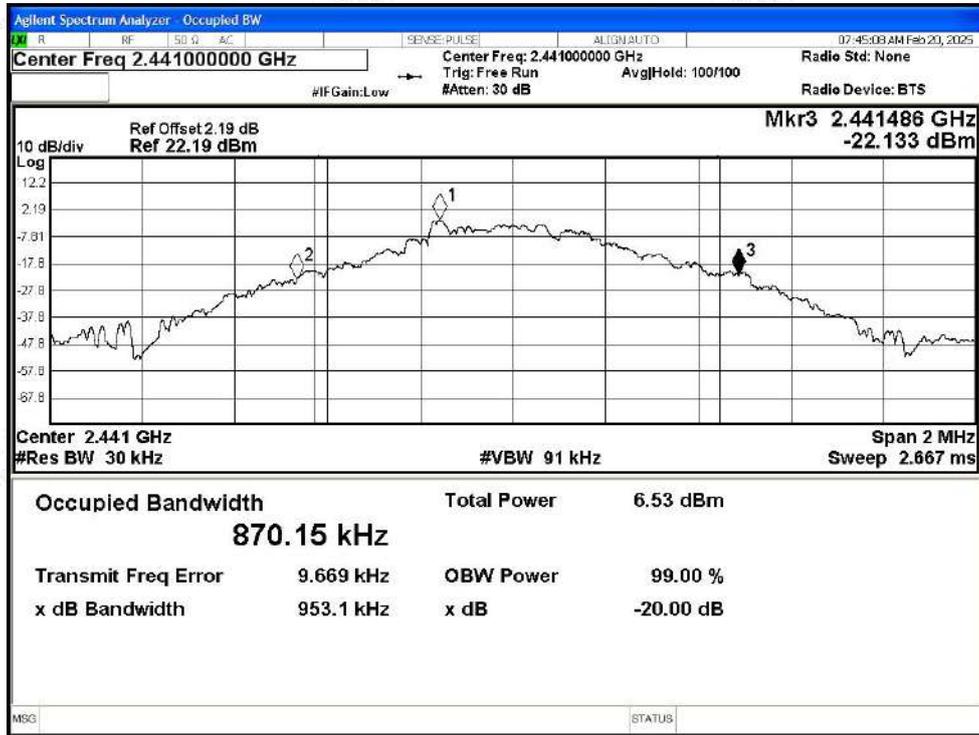


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

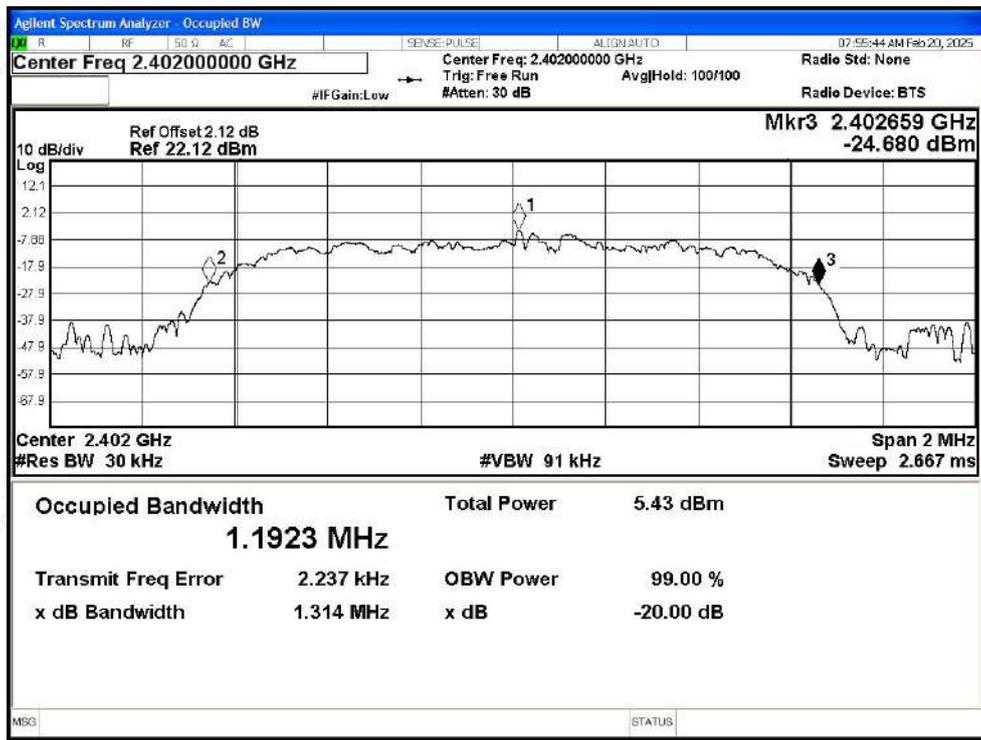




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

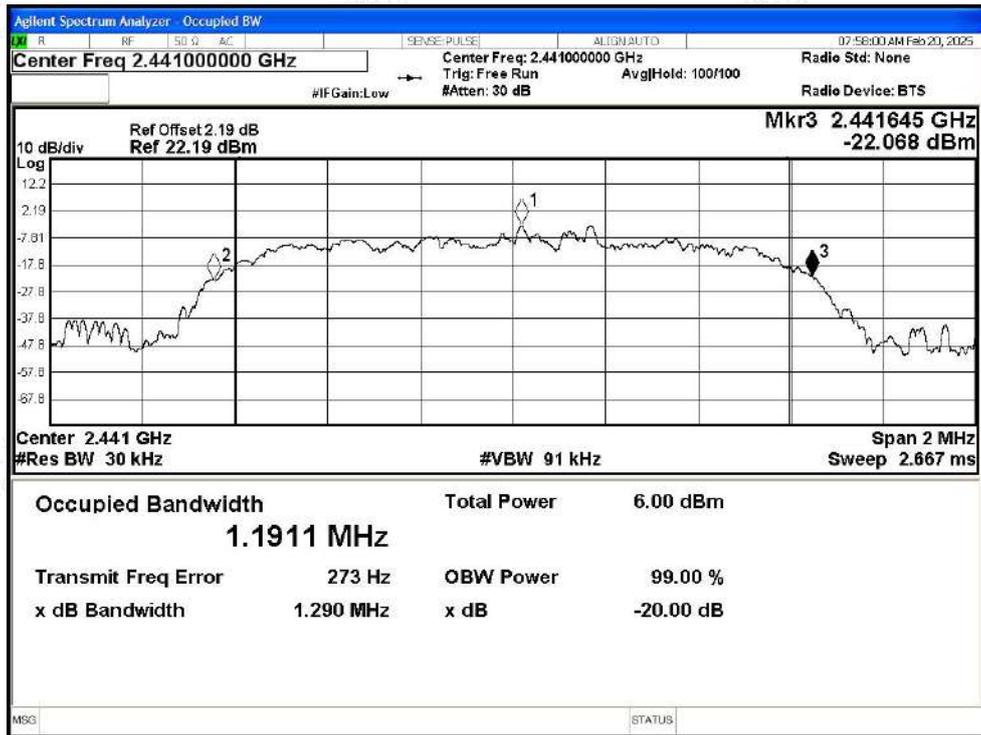


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

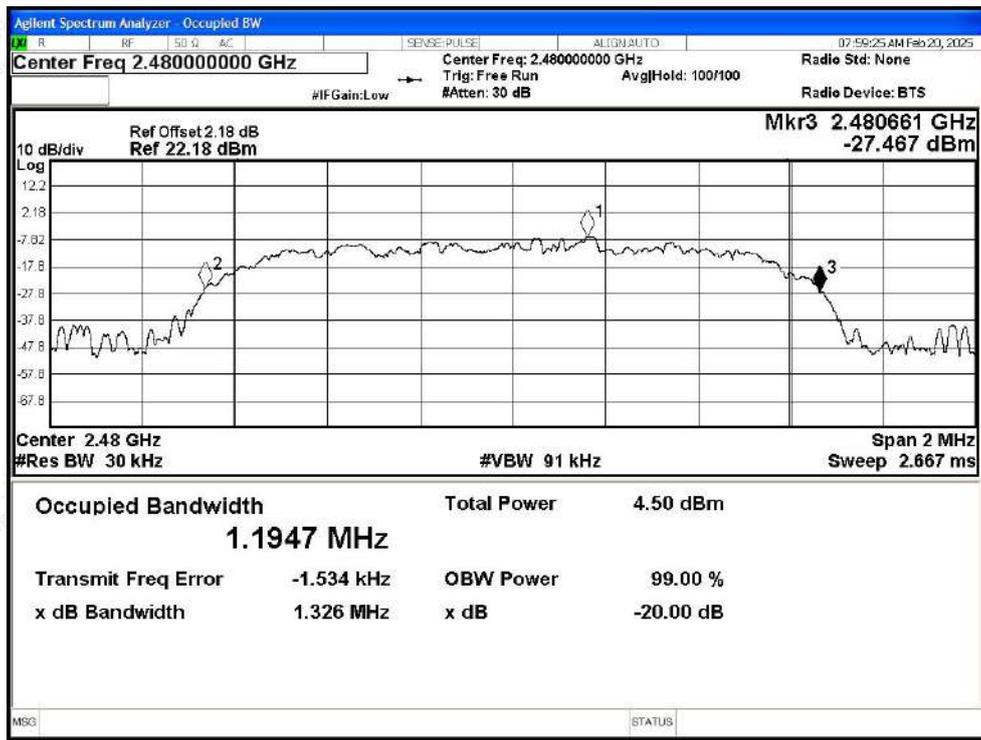




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

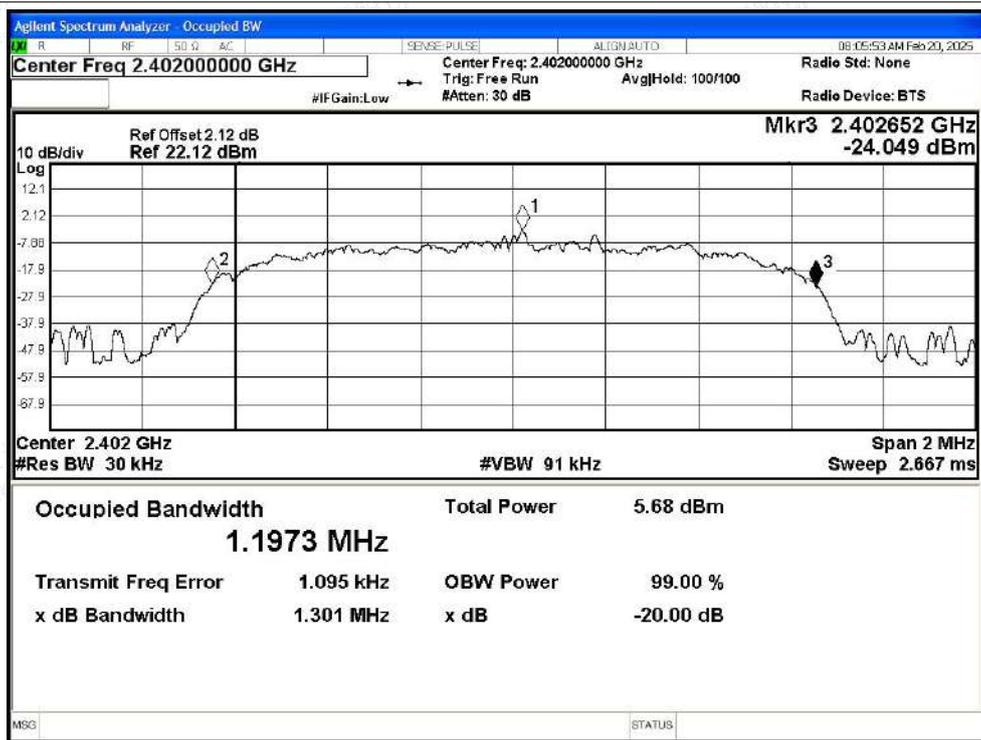


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

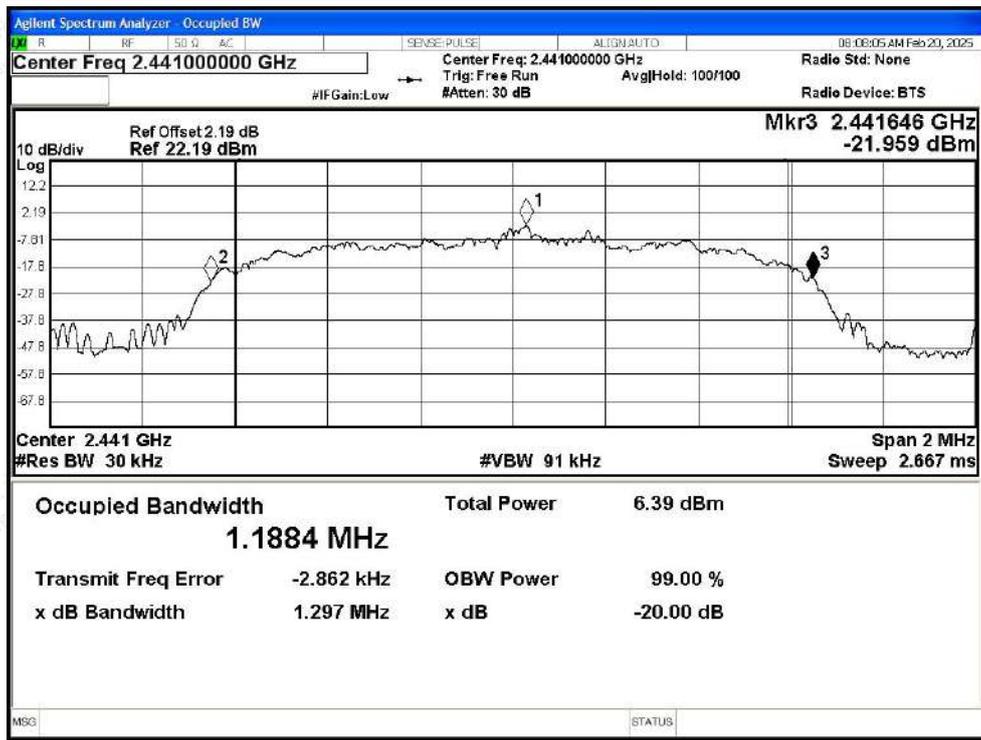




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant

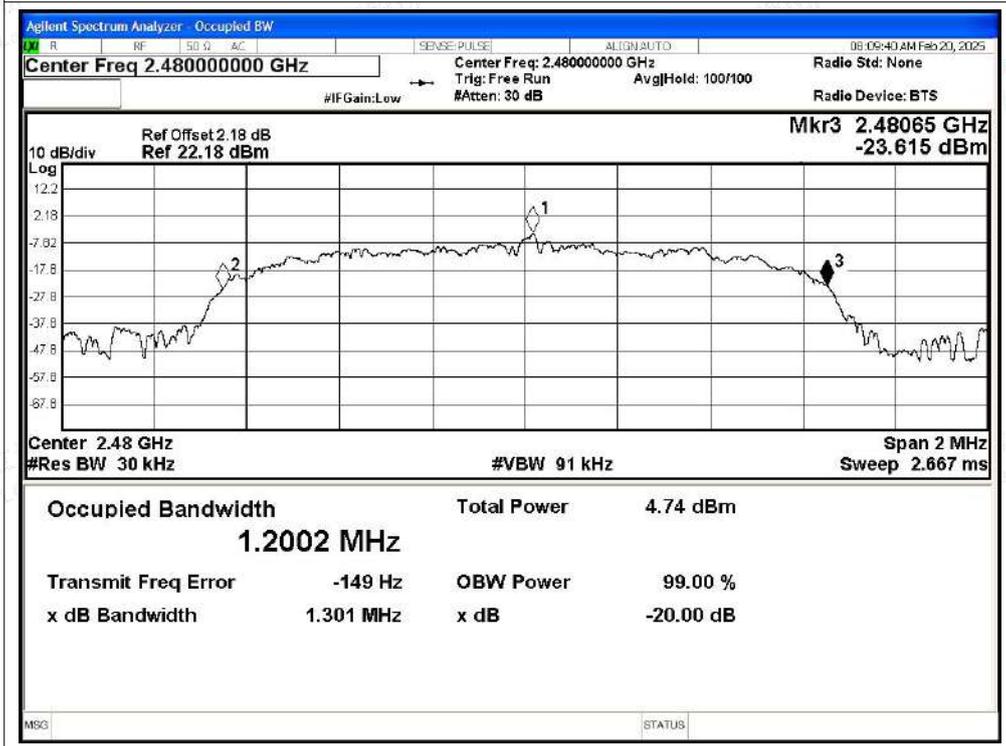


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	-0.28	21	Pass
NVNT	1-DH5	2441	Ant	0.14	21	Pass
NVNT	1-DH5	2480	Ant	-1	21	Pass
NVNT	2-DH5	2402	Ant	1.42	21	Pass
NVNT	2-DH5	2441	Ant	1.74	21	Pass
NVNT	2-DH5	2480	Ant	0.61	21	Pass
NVNT	3-DH5	2402	Ant	1.83	21	Pass
NVNT	3-DH5	2441	Ant	2.13	21	Pass
NVNT	3-DH5	2480	Ant	0.93	21	Pass



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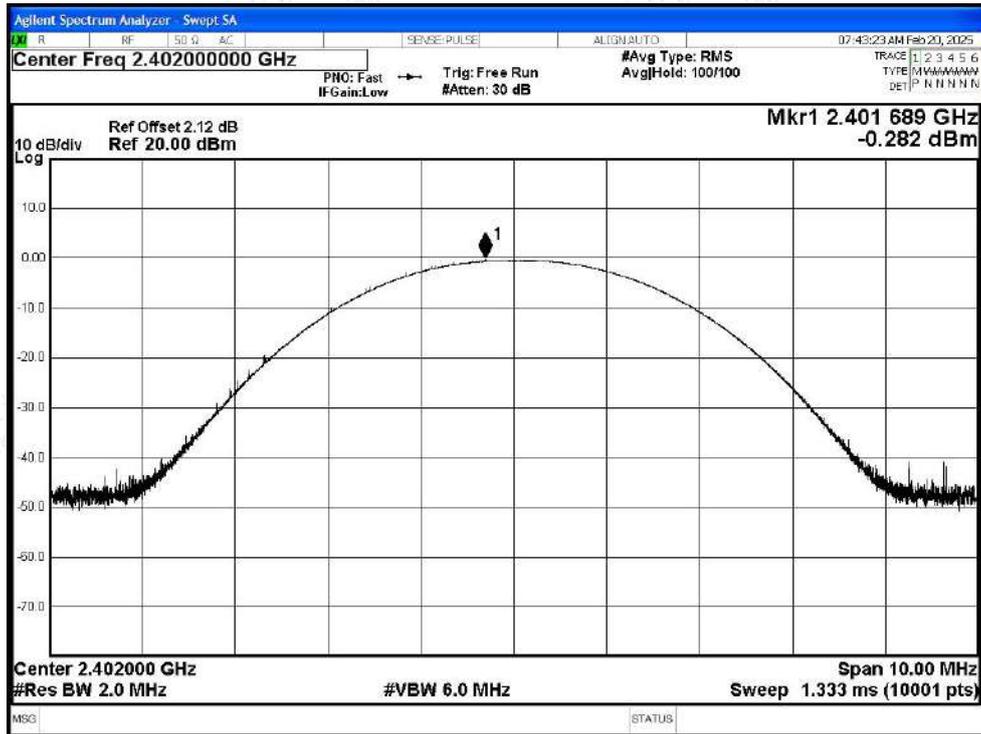
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

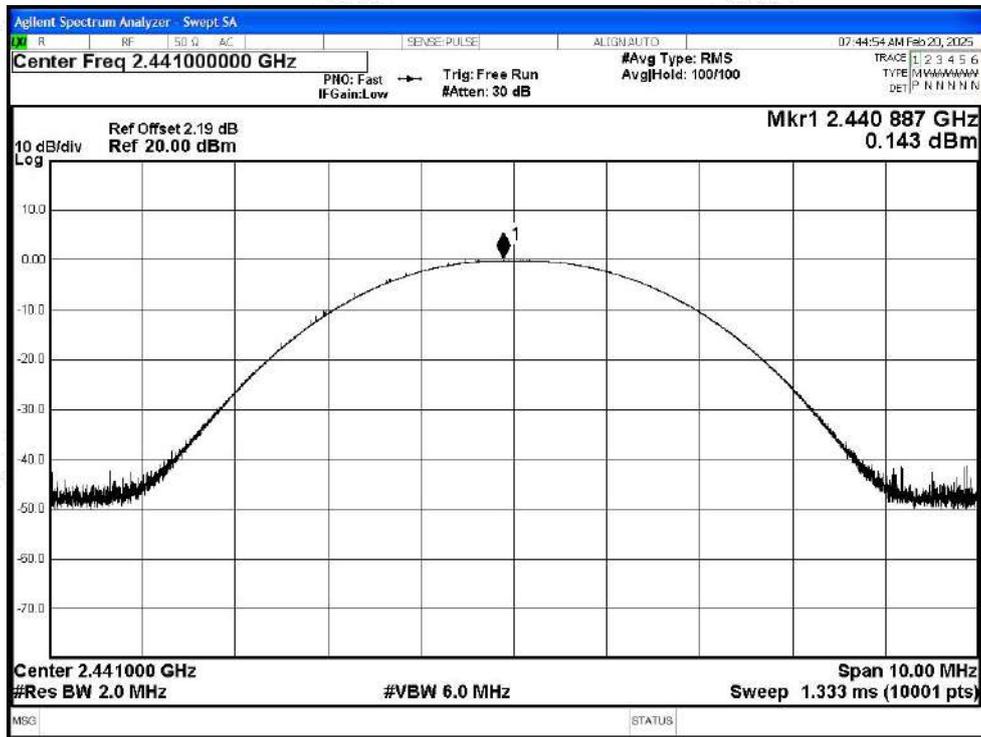


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

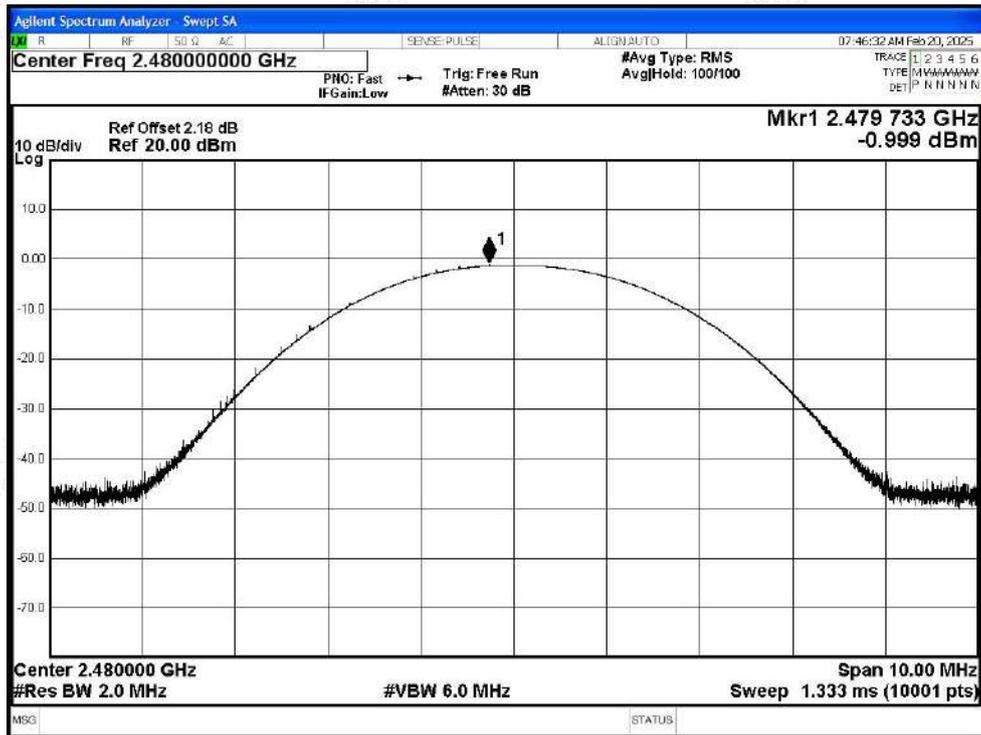


Power NVNT 1-DH5 2441MHz Ant

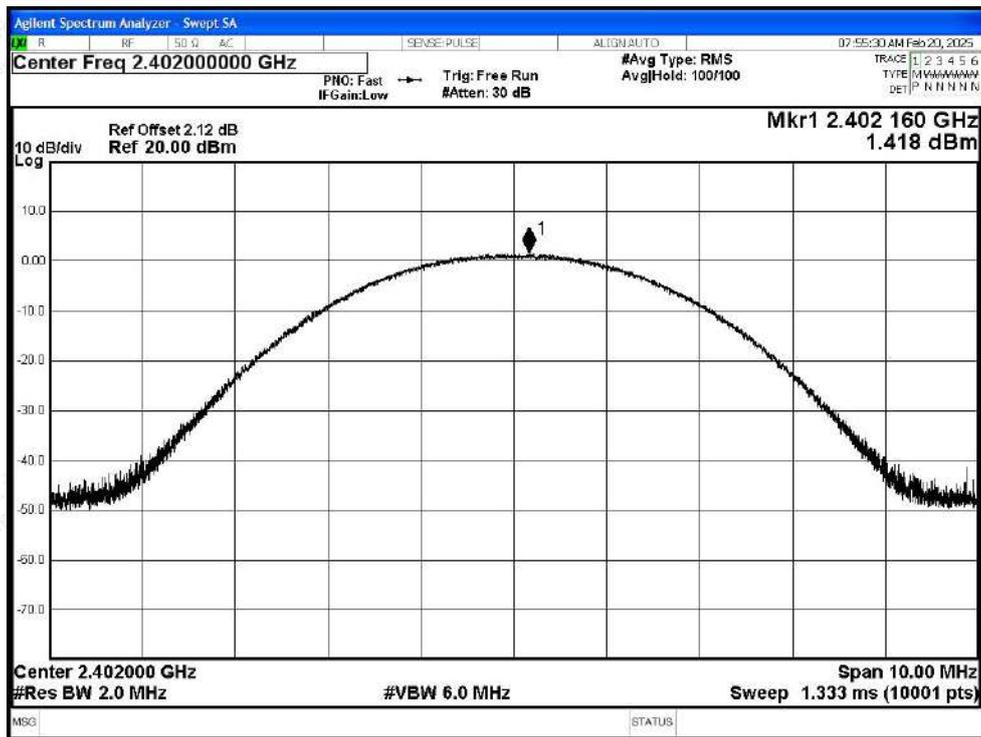




Power NVNT 1-DH5 2480MHz Ant

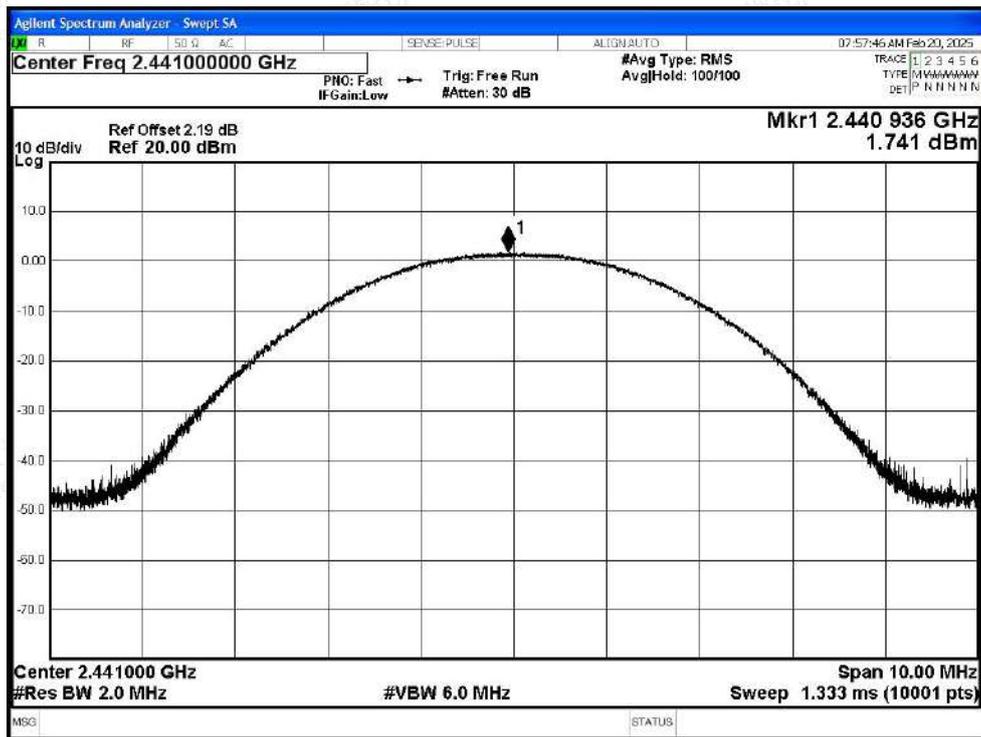


Power NVNT 2-DH5 2402MHz Ant

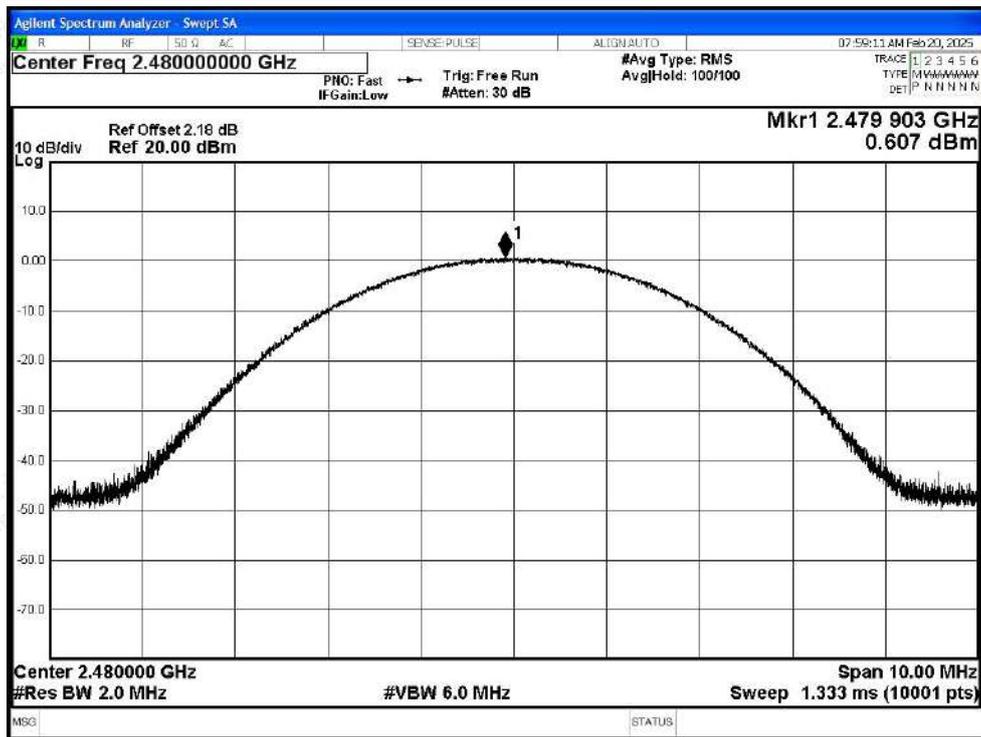




Power NVNT 2-DH5 2441MHz Ant

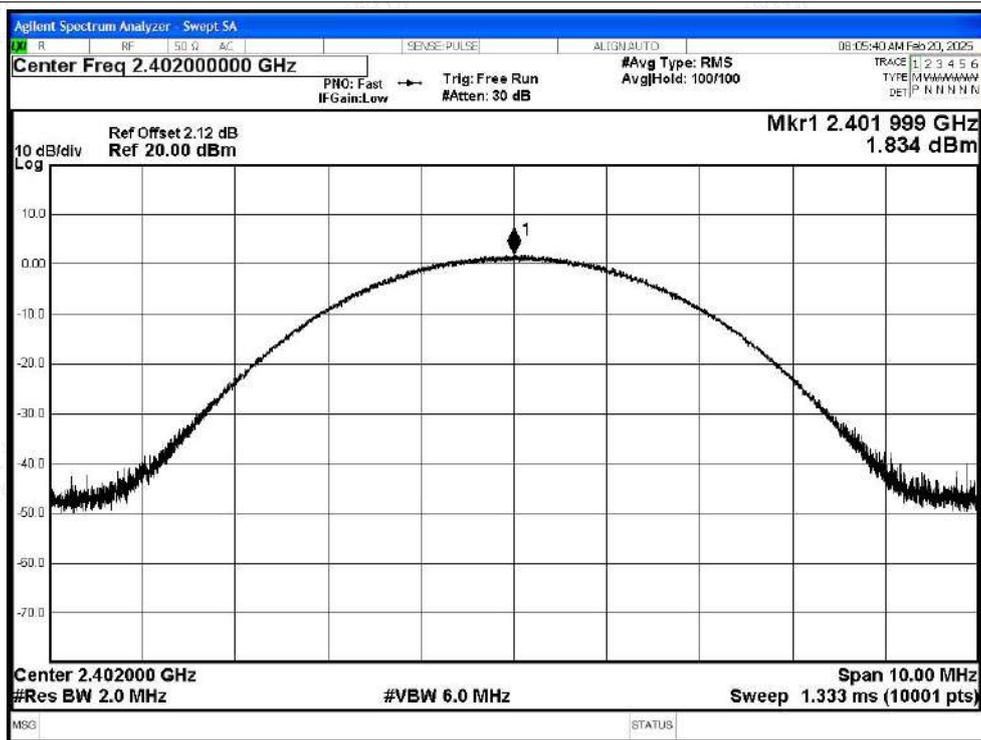


Power NVNT 2-DH5 2480MHz Ant

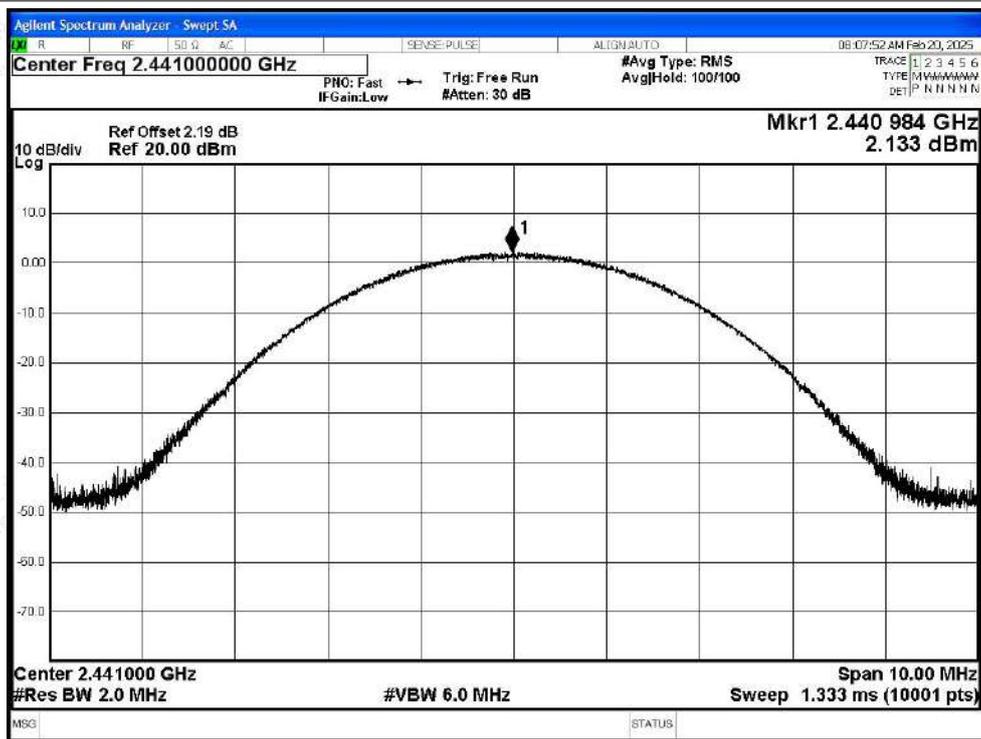


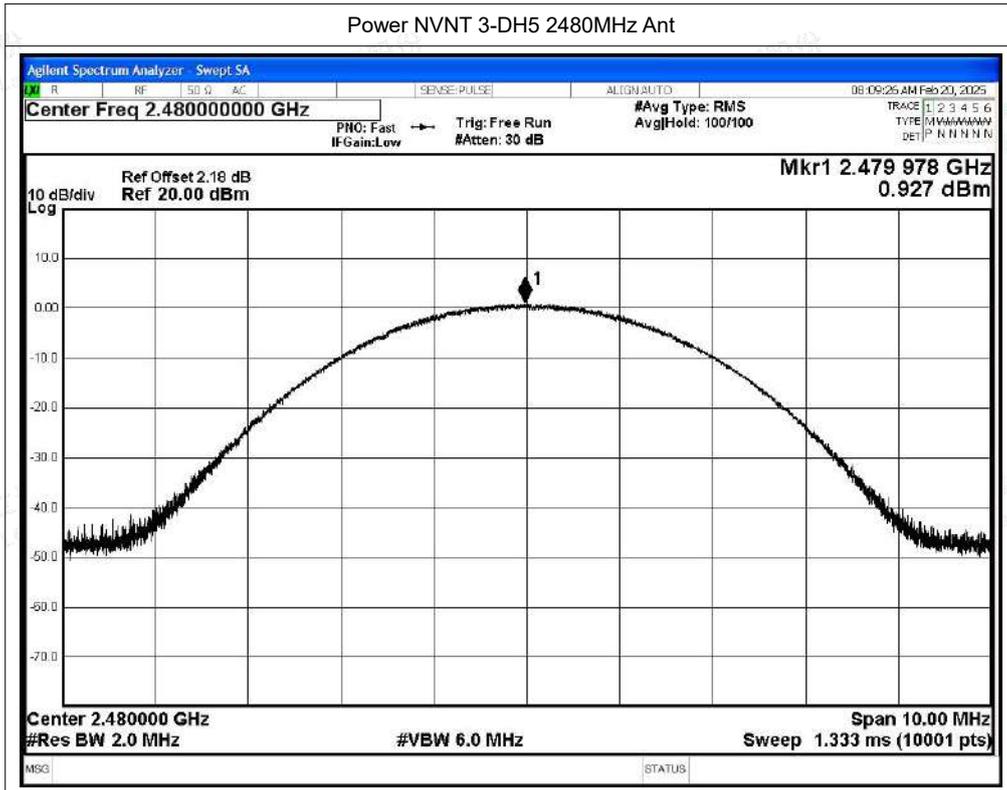


Power NVNT 3-DH5 2402MHz Ant



Power NVNT 3-DH5 2441MHz Ant







A.3 Carrier Frequencies Separation

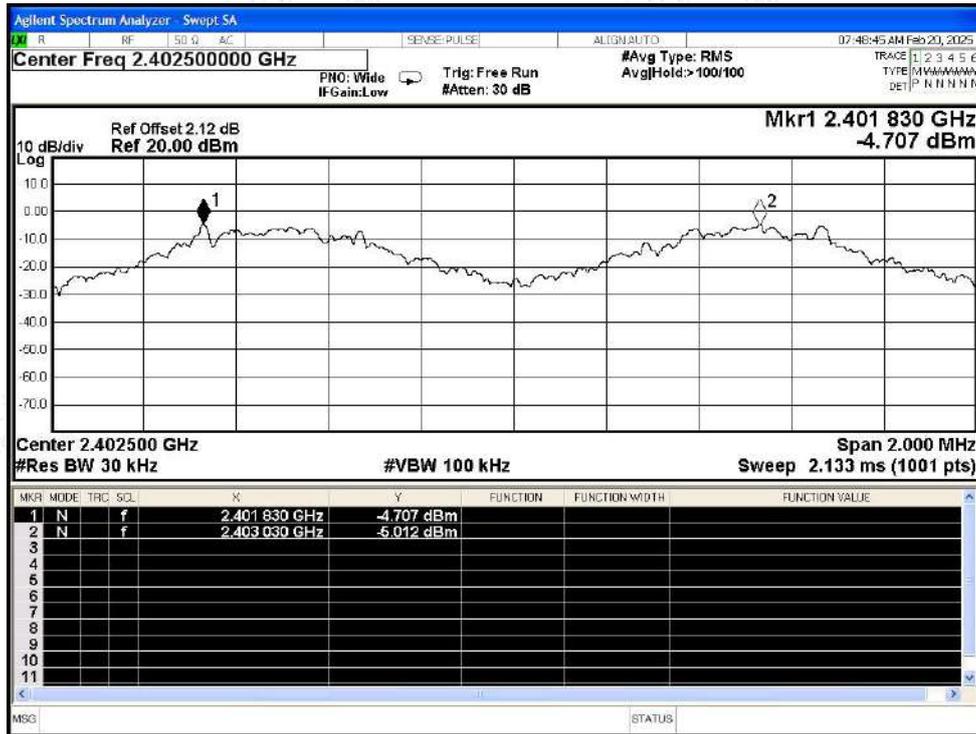
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.83	2403.03	1.2	0.685	Pass
NVNT	2-DH5	Ant	2402.006	2403	0.994	0.884	Pass
NVNT	3-DH5	Ant	2402.018	2403.018	1	0.867	Pass



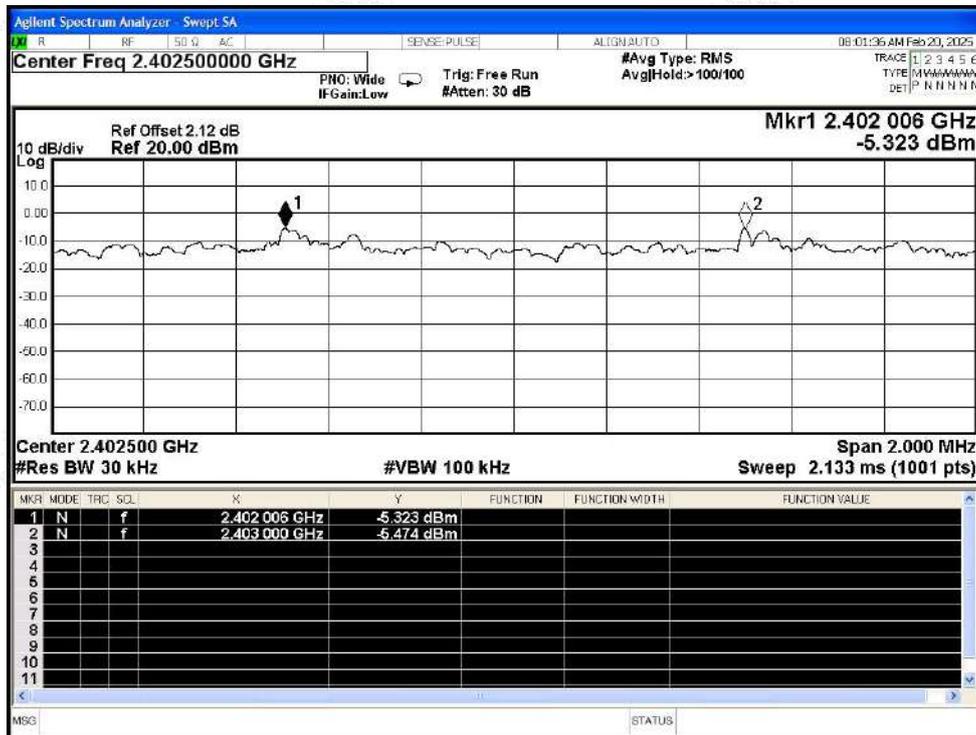


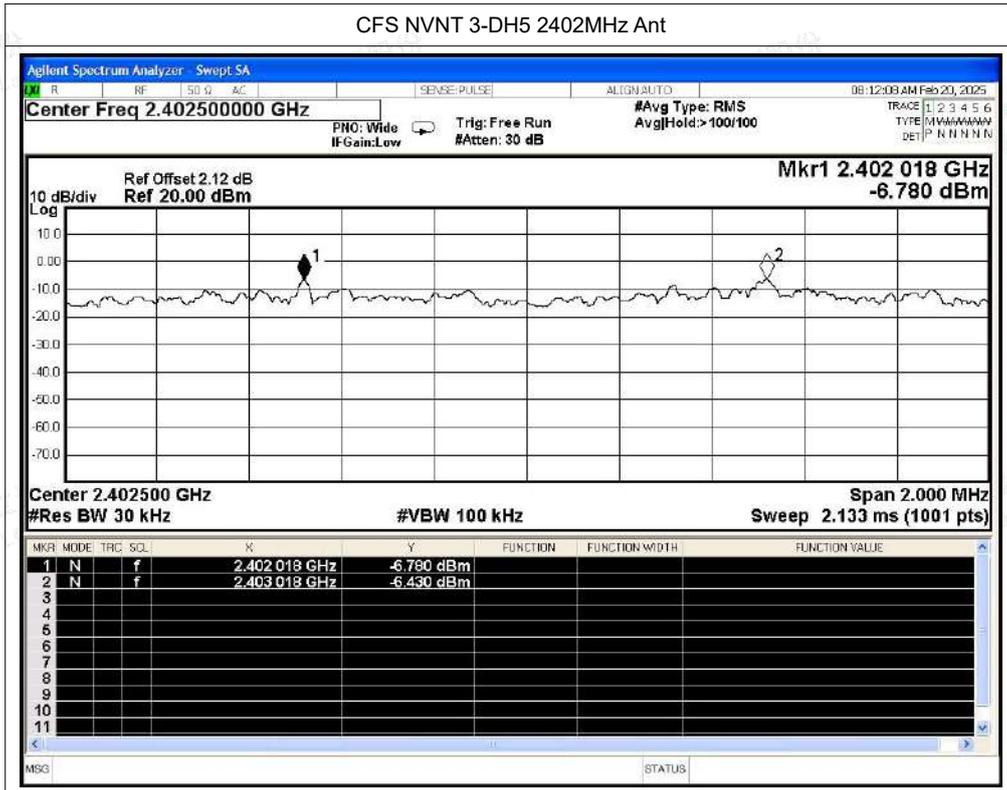
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant







A.4 Dwell Time

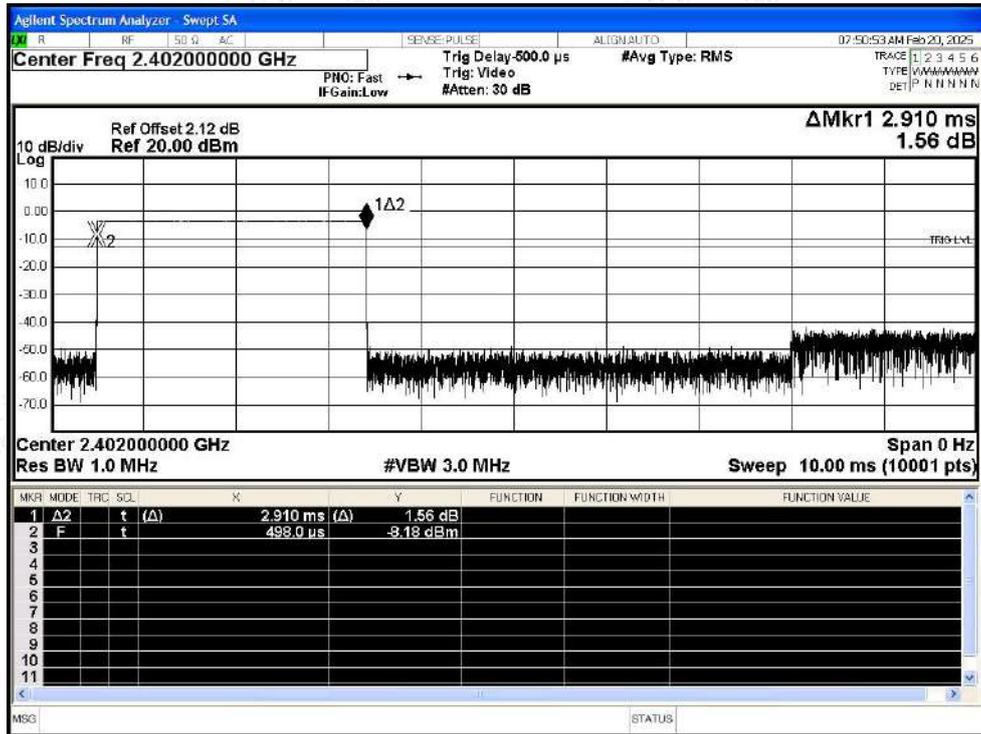
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.91	299.73	103	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.898	304.29	105	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.897	301.288	104	31600	400	Pass



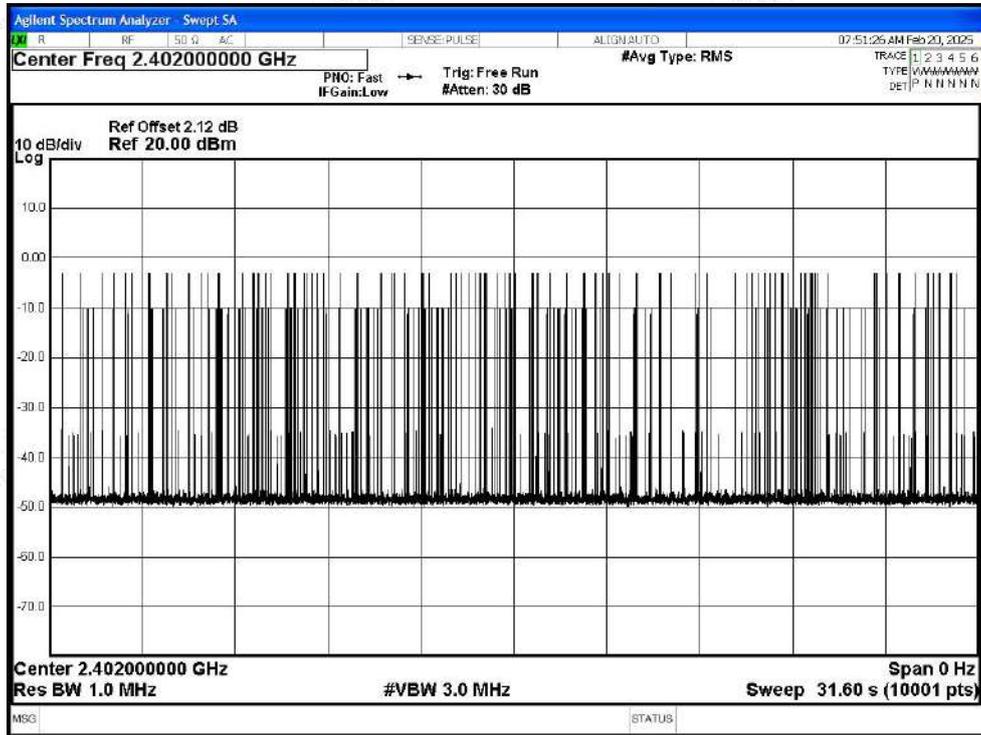


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst

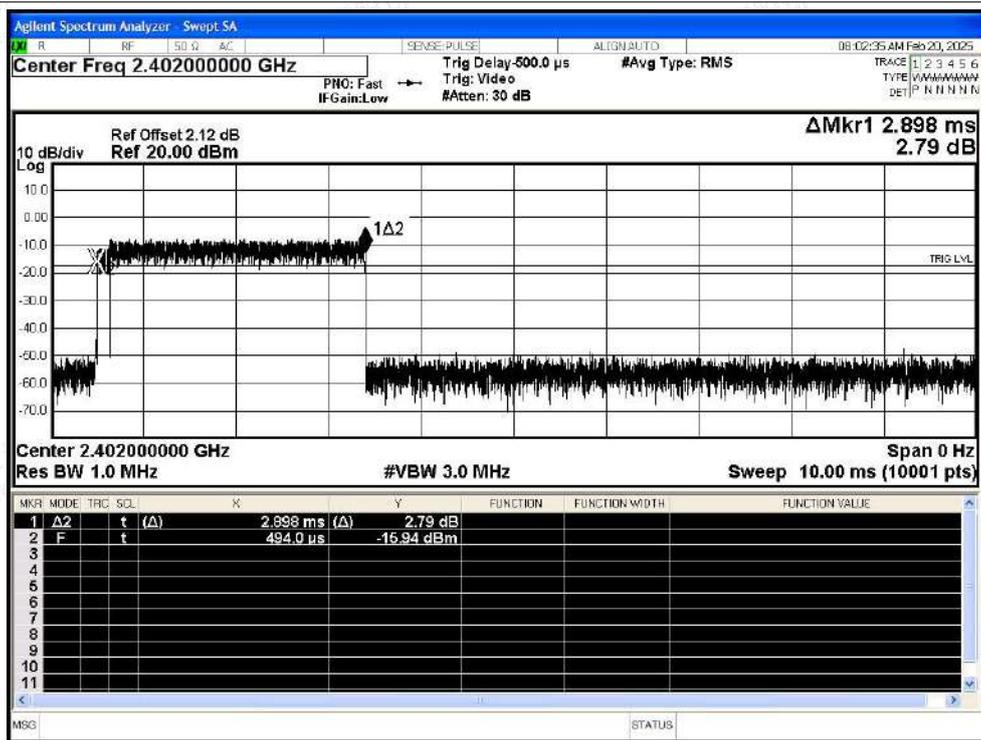


Dwell NVNT 1-DH5 2402MHz Ant Accumulated

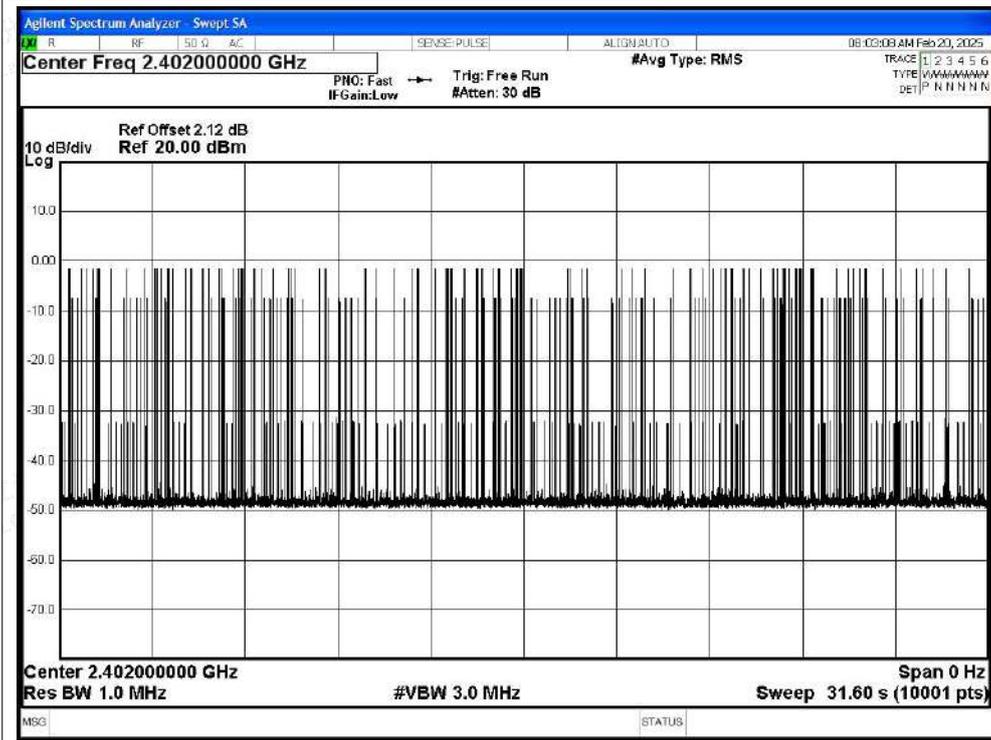




Dwell NVNT 2-DH5 2402MHz Ant One Burst

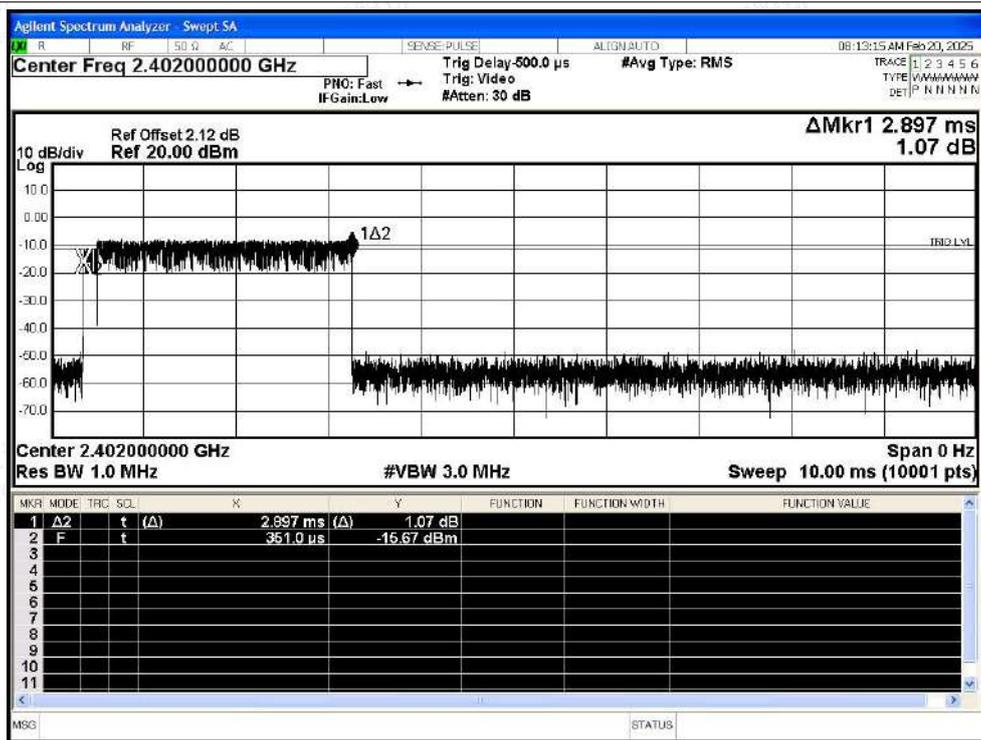


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

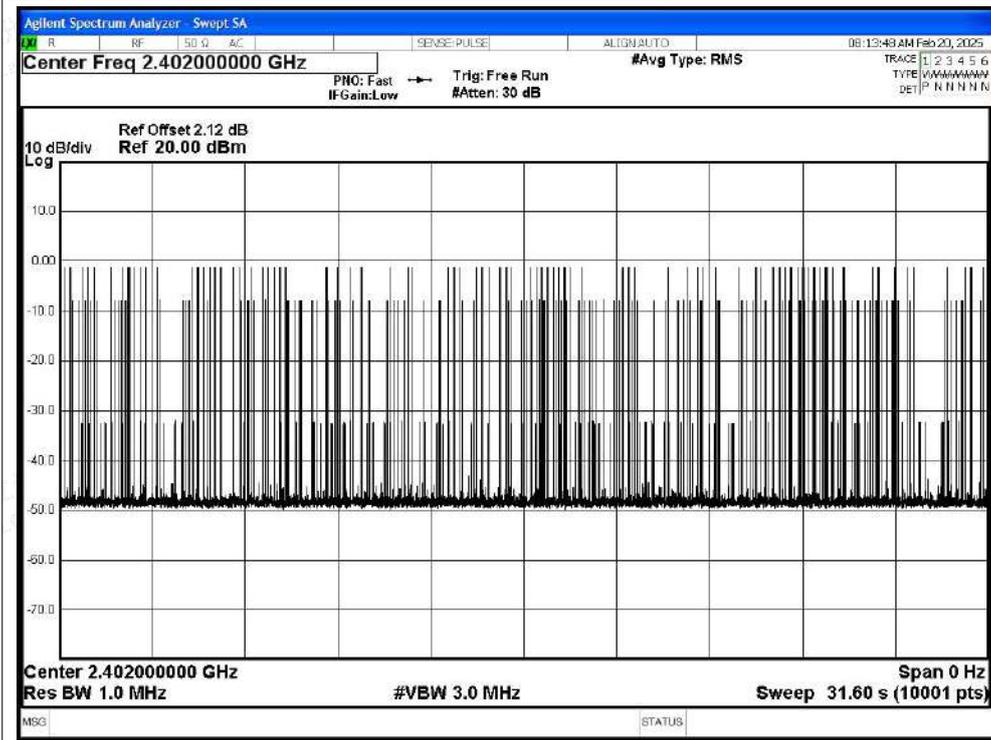




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

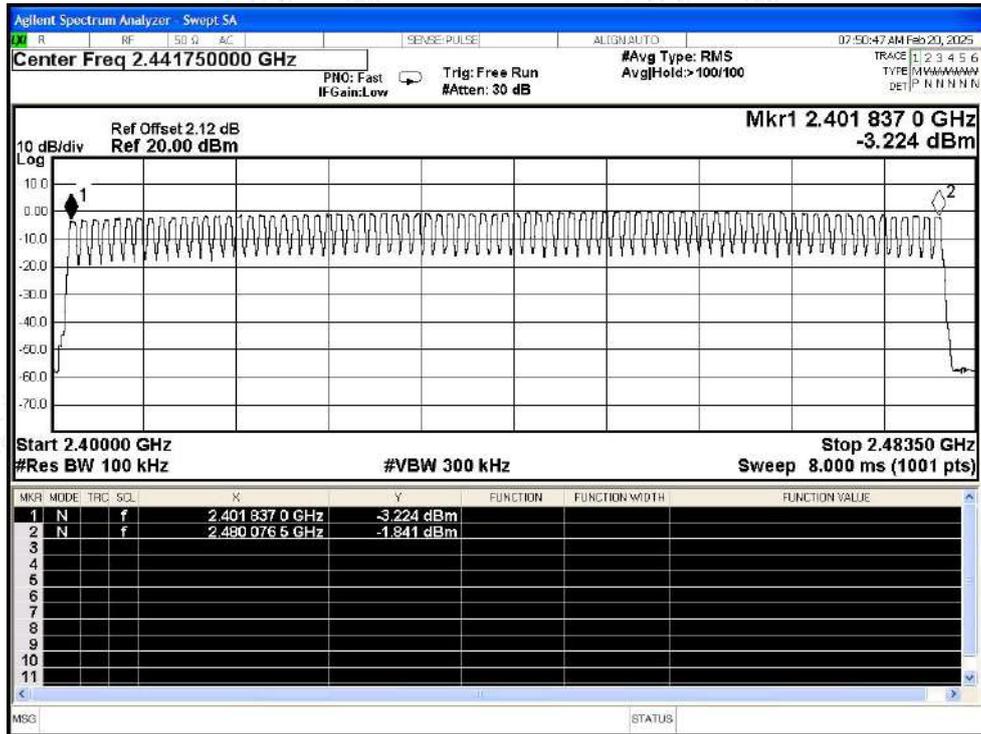
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



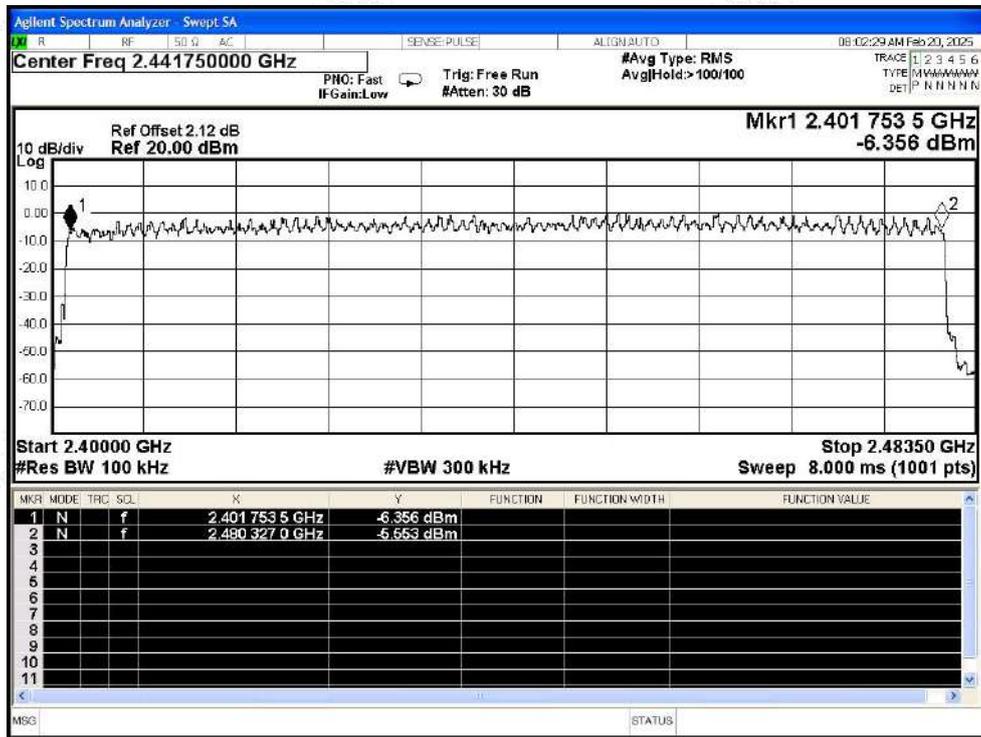


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant

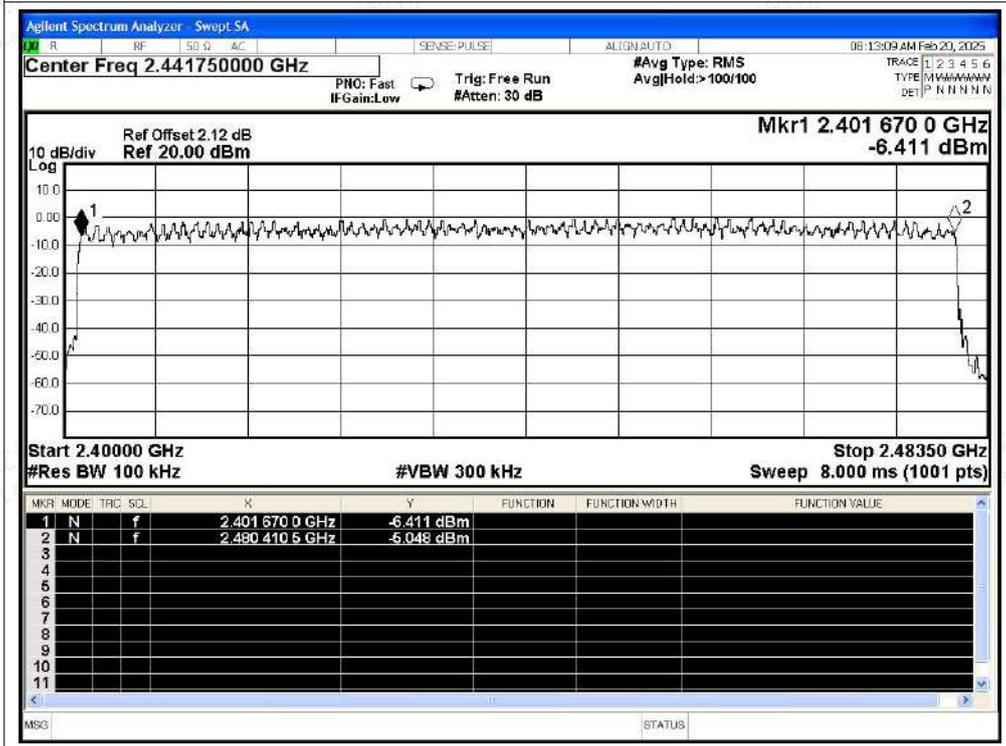


Hopping No. NVNT 2-DH5 2402MHz Ant





Hopping No. NVNT 3-DH5 2402MHz Ant





A.6 Band Edge

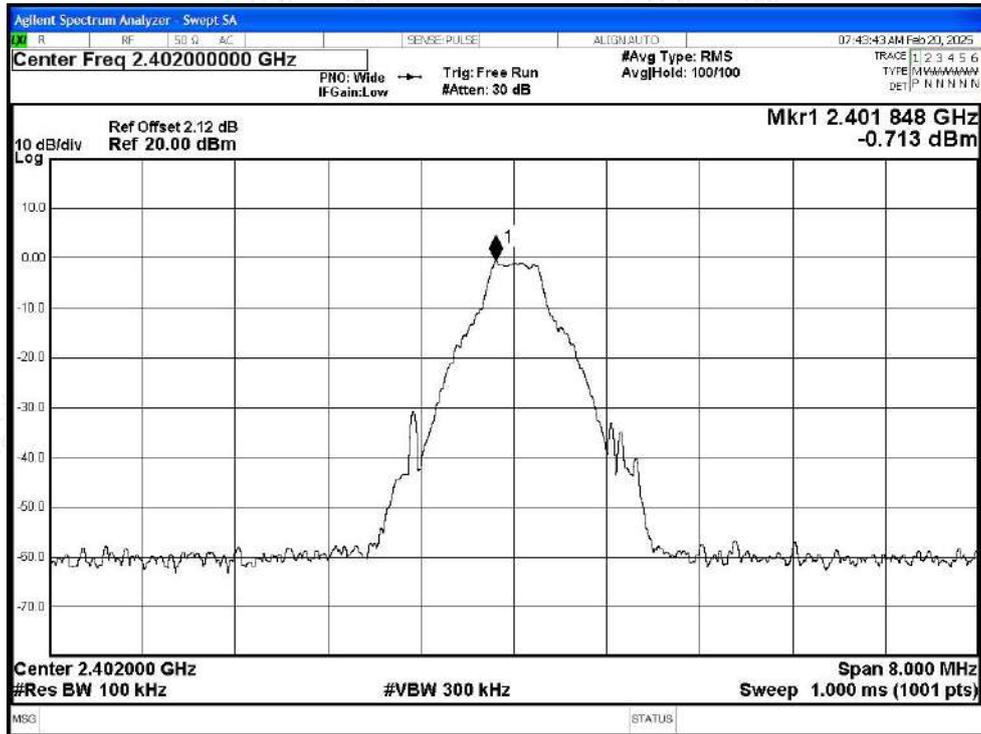
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-55.87	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-54.39	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-51.49	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-55.45	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-52.76	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-55.86	-20	Pass



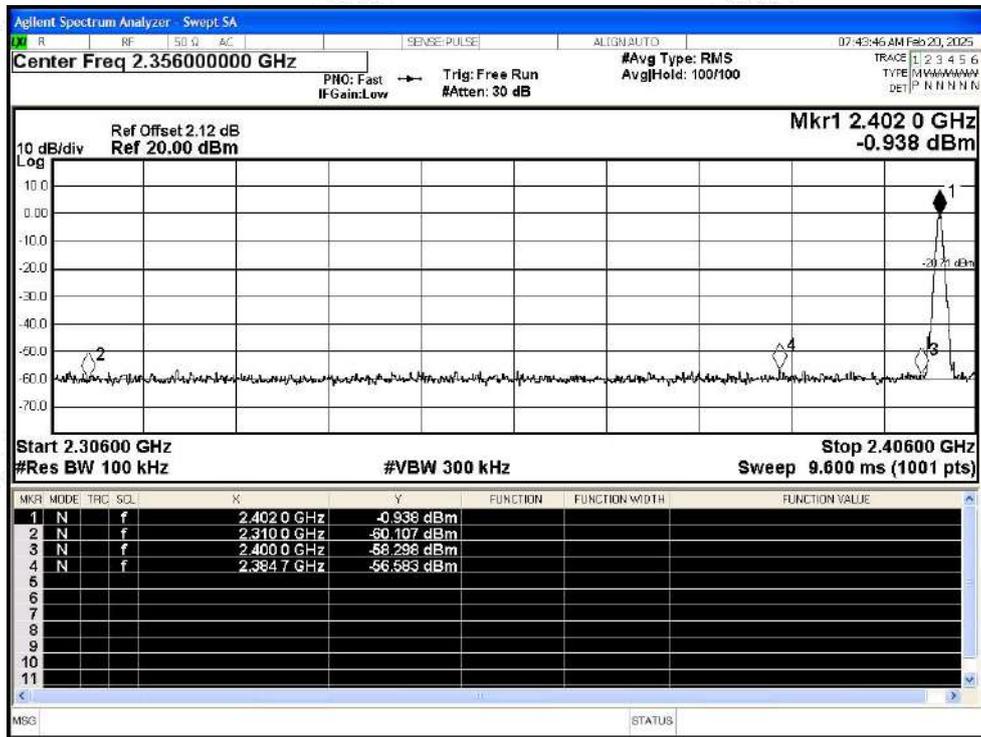


Test Graphs

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

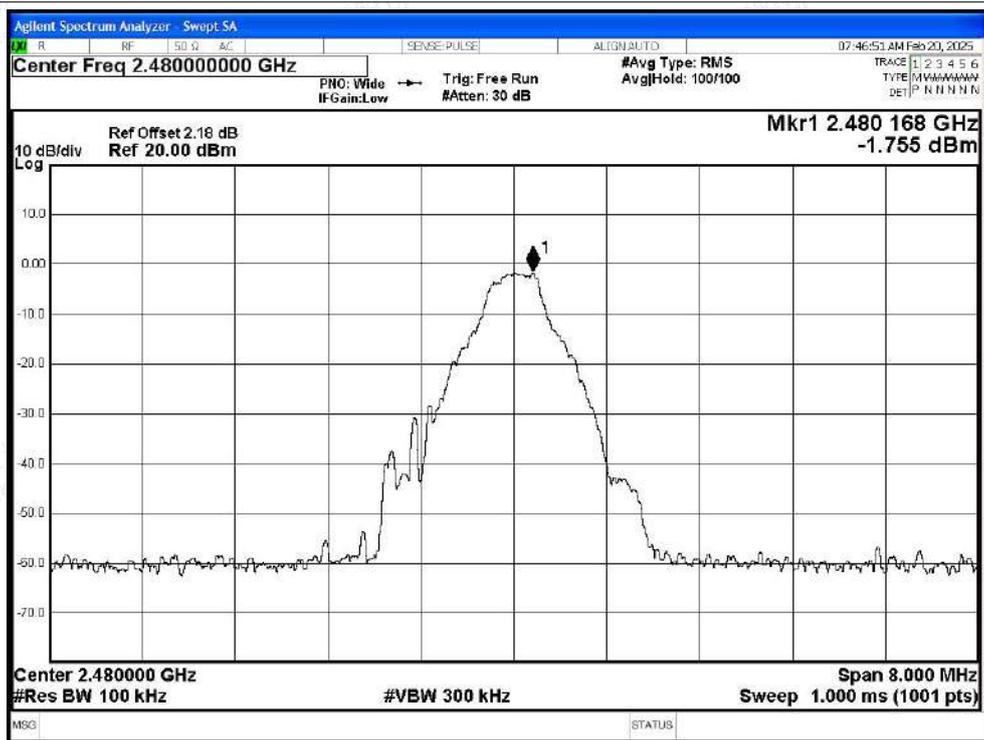


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

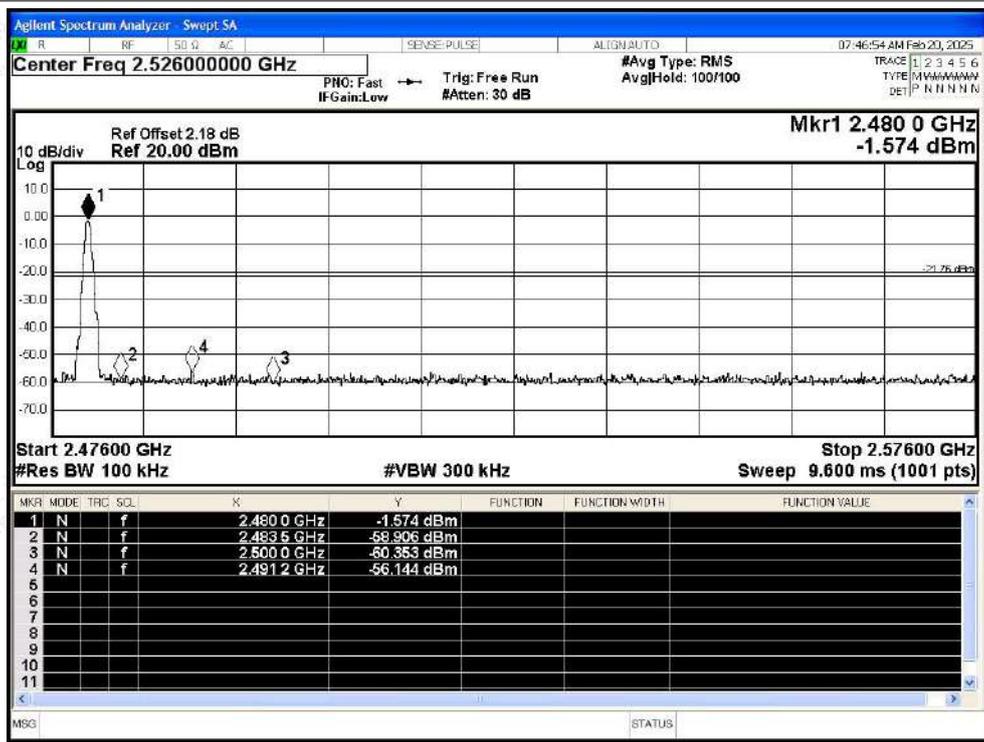




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

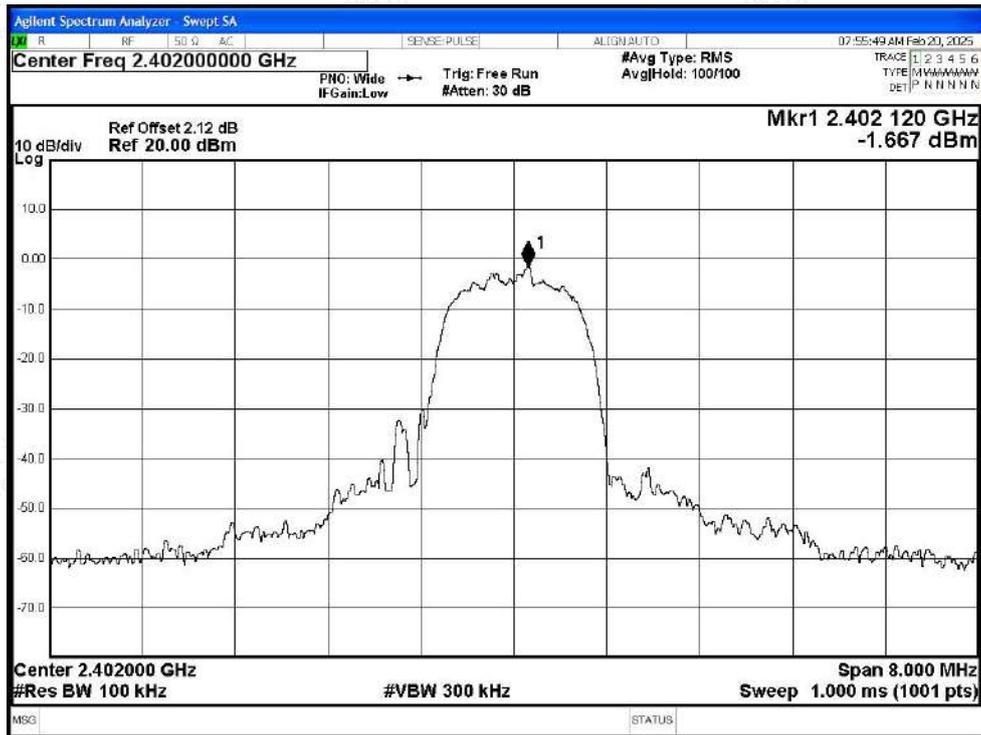


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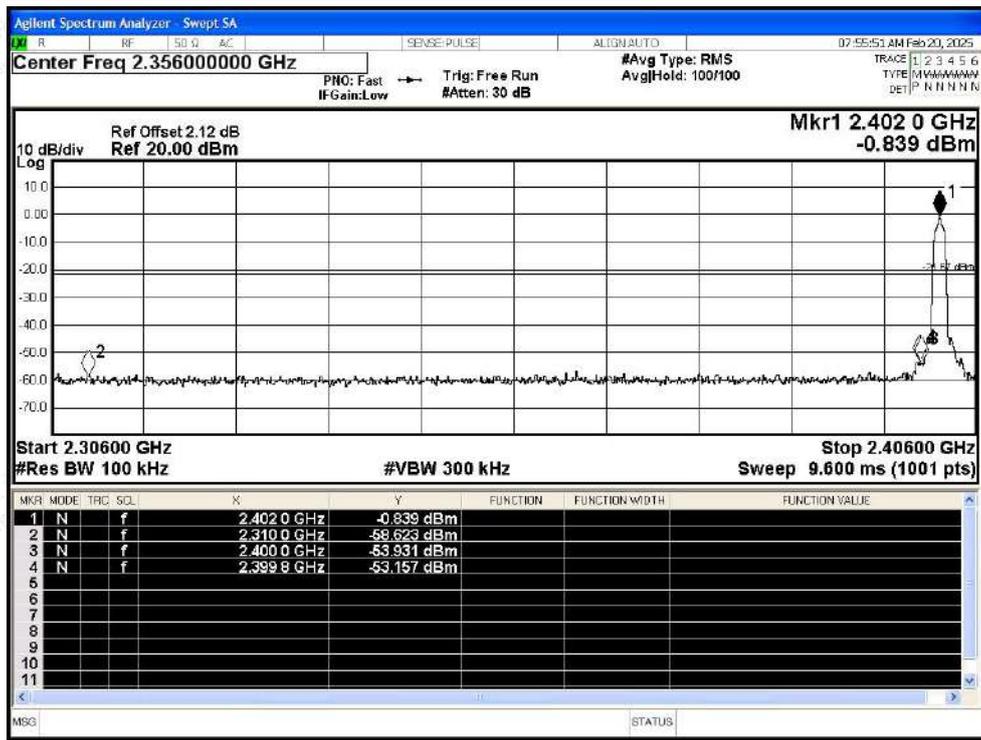




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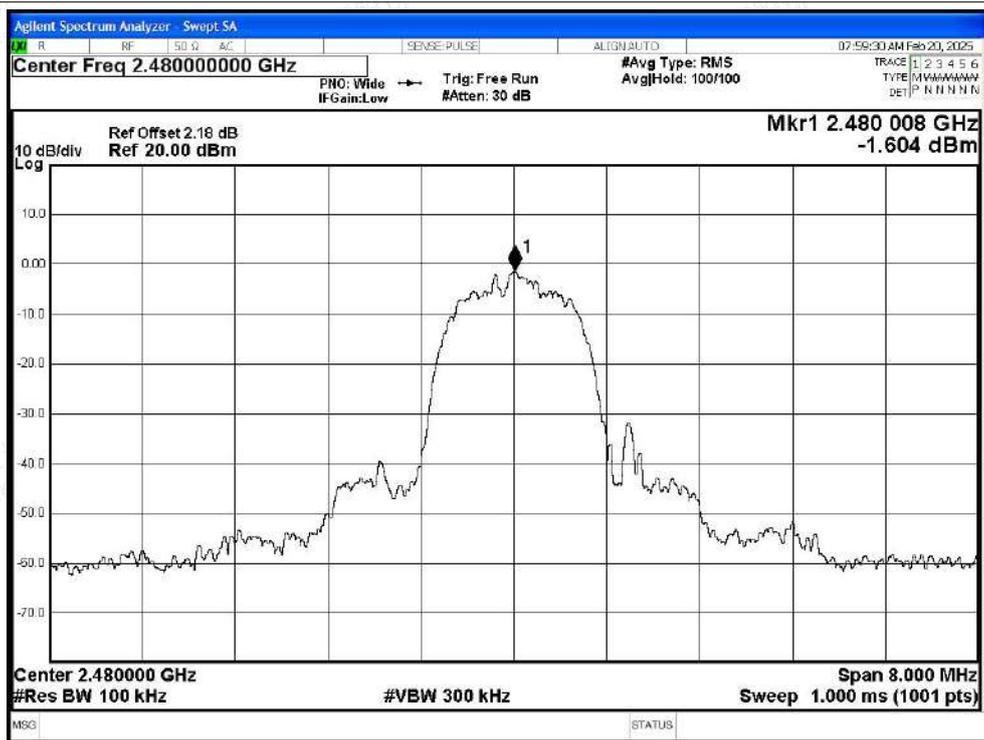


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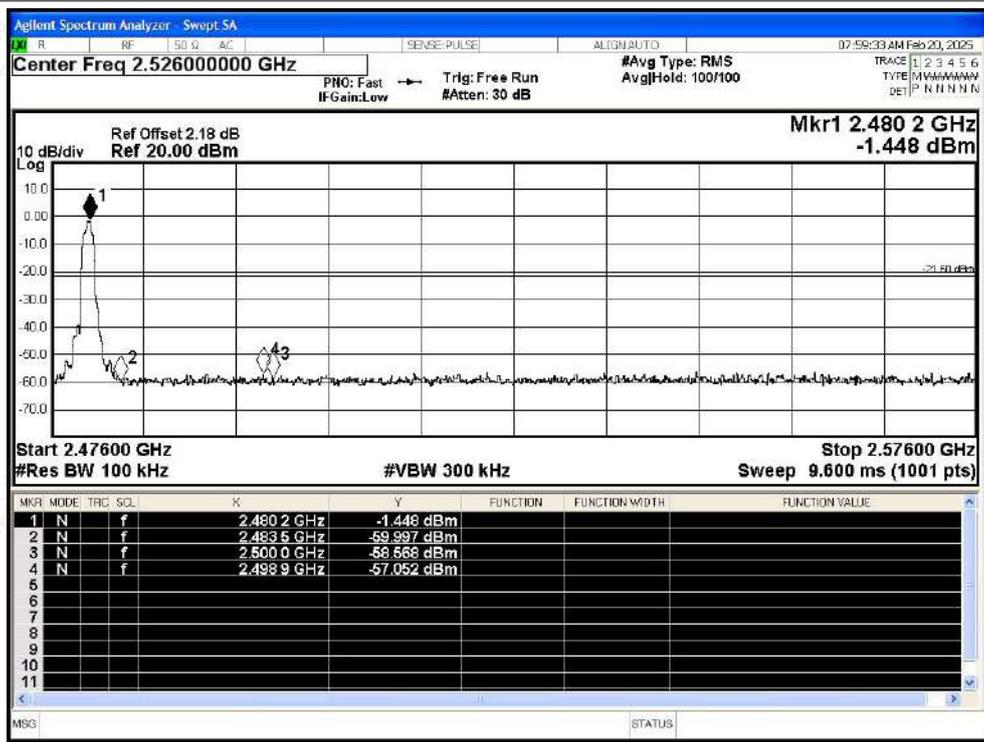




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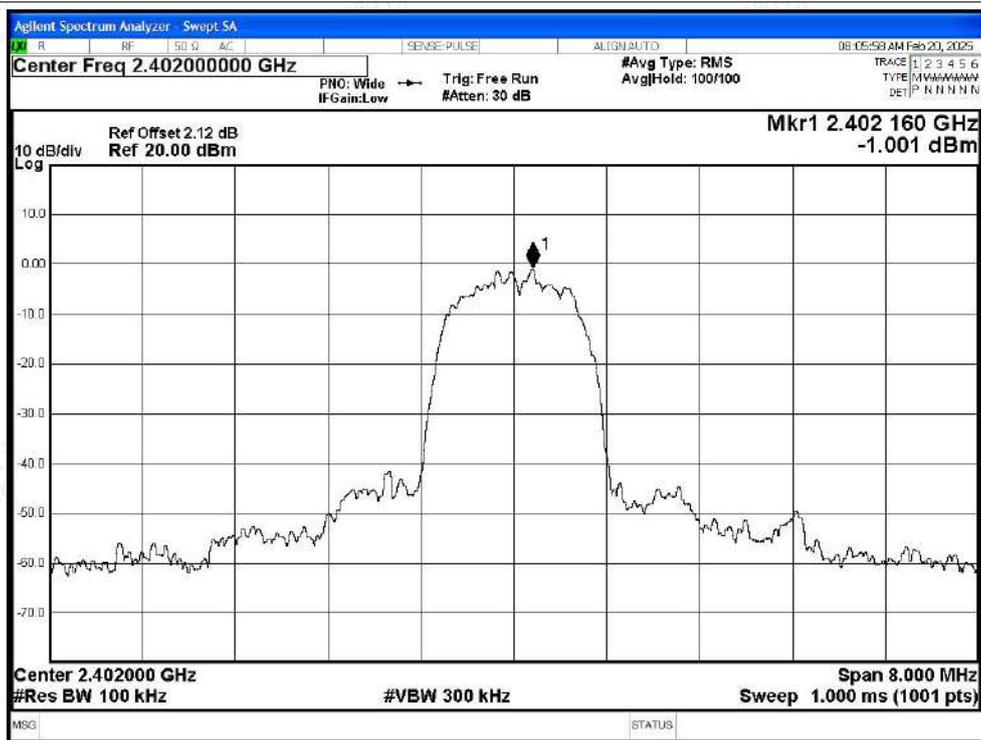


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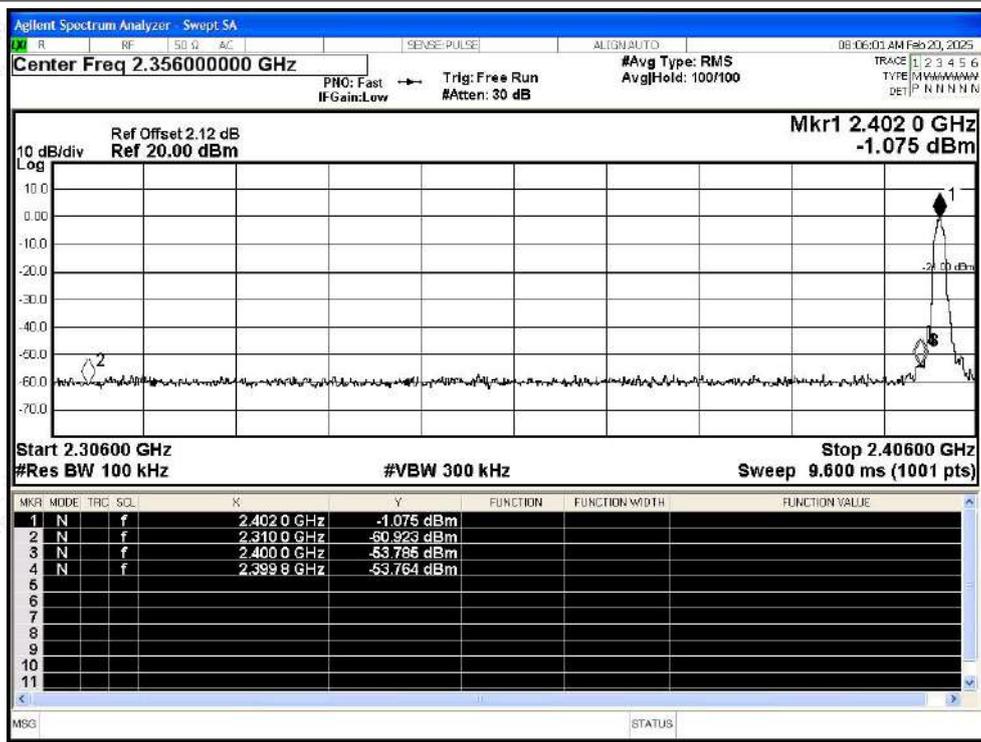




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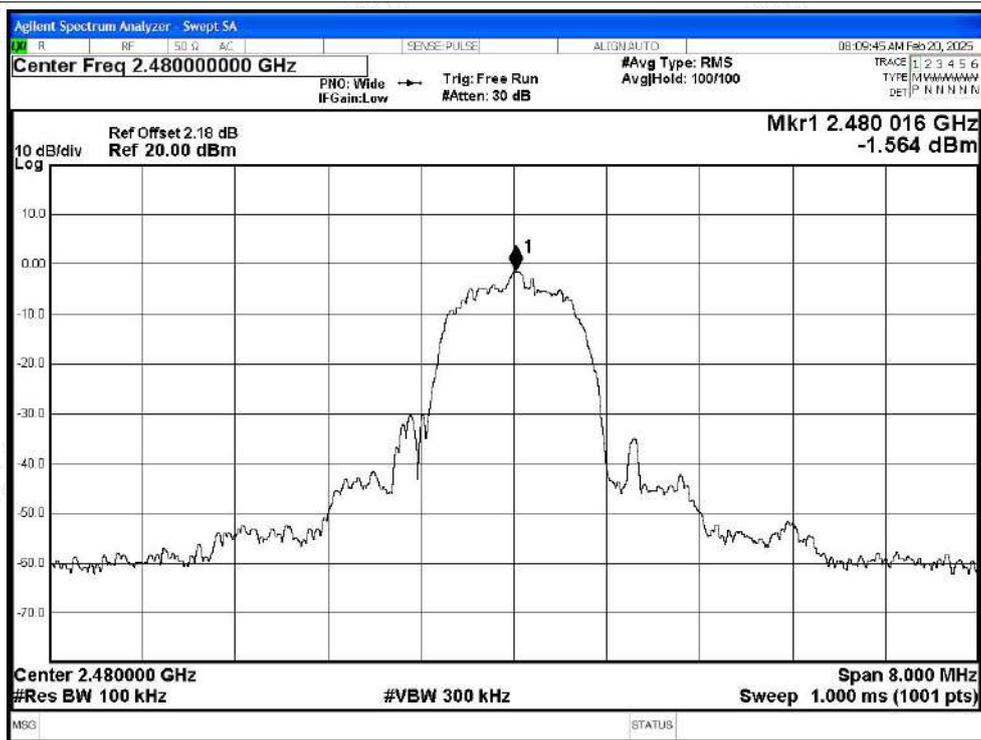


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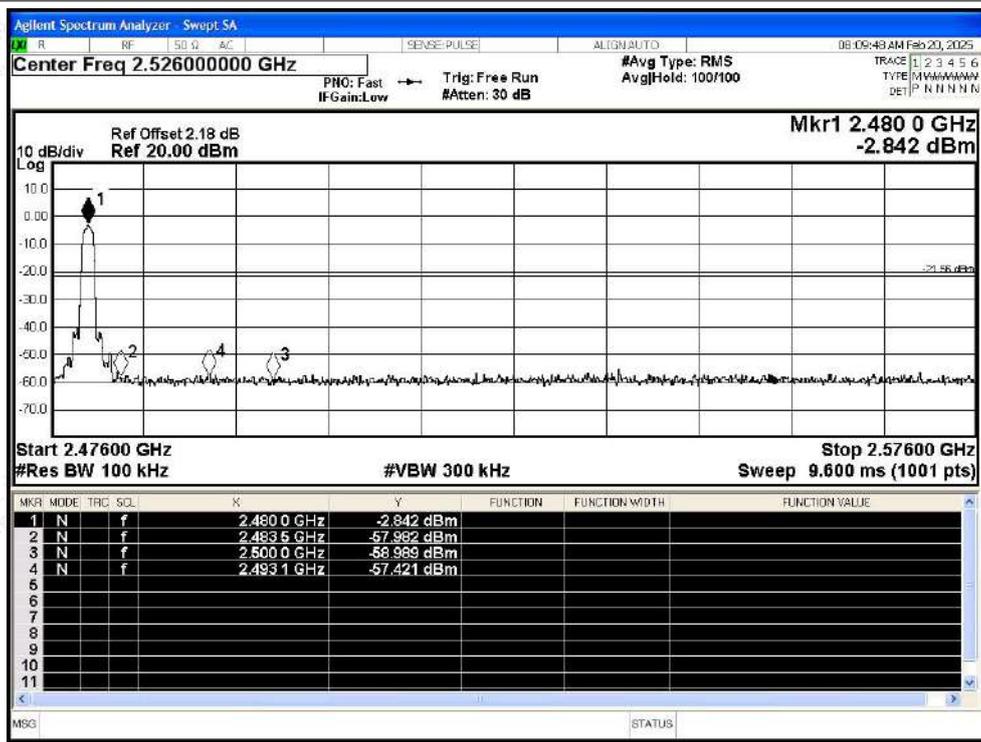




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





(Hopping)

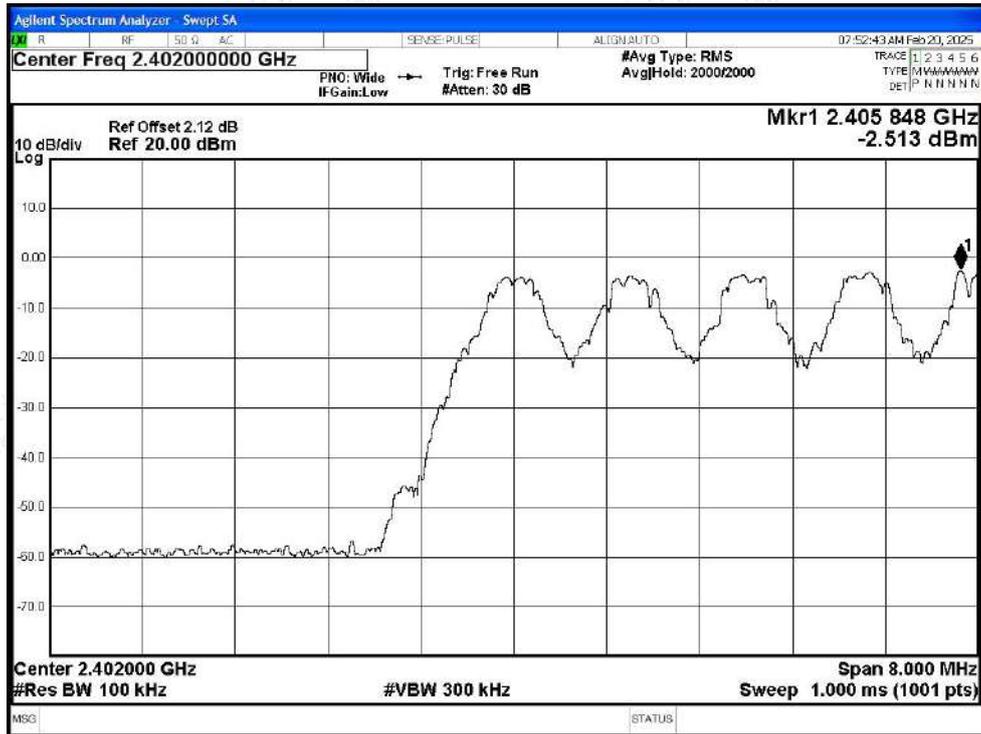
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-54.09	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-54.38	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-53.23	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-54.43	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-52.79	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-54.5	-20	Pass



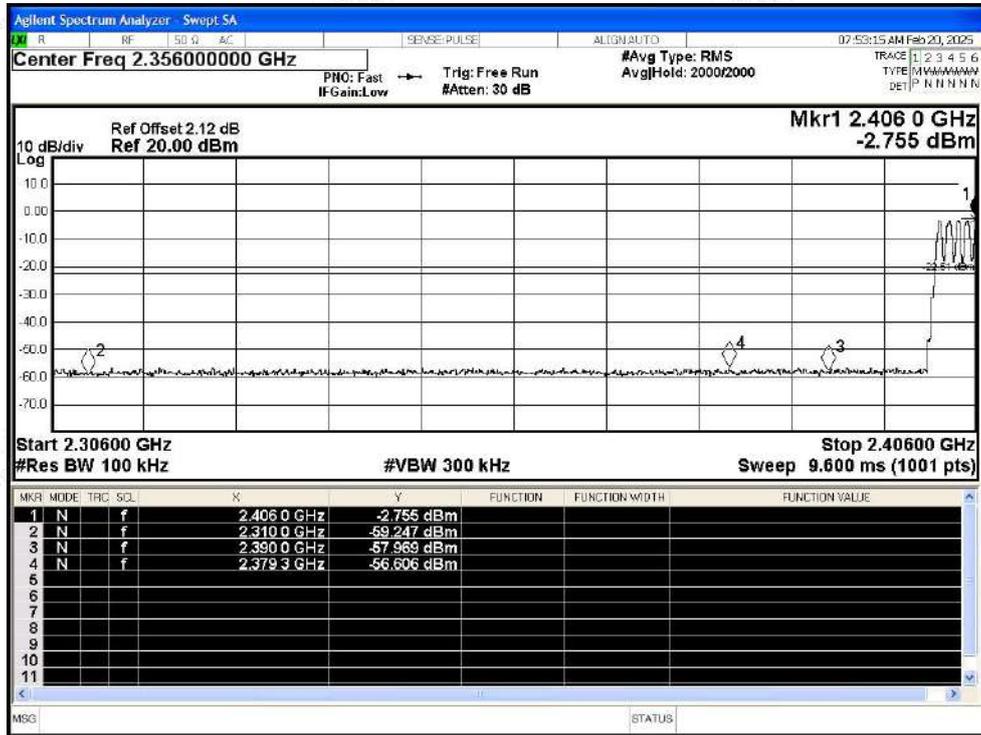


Test Graphs

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

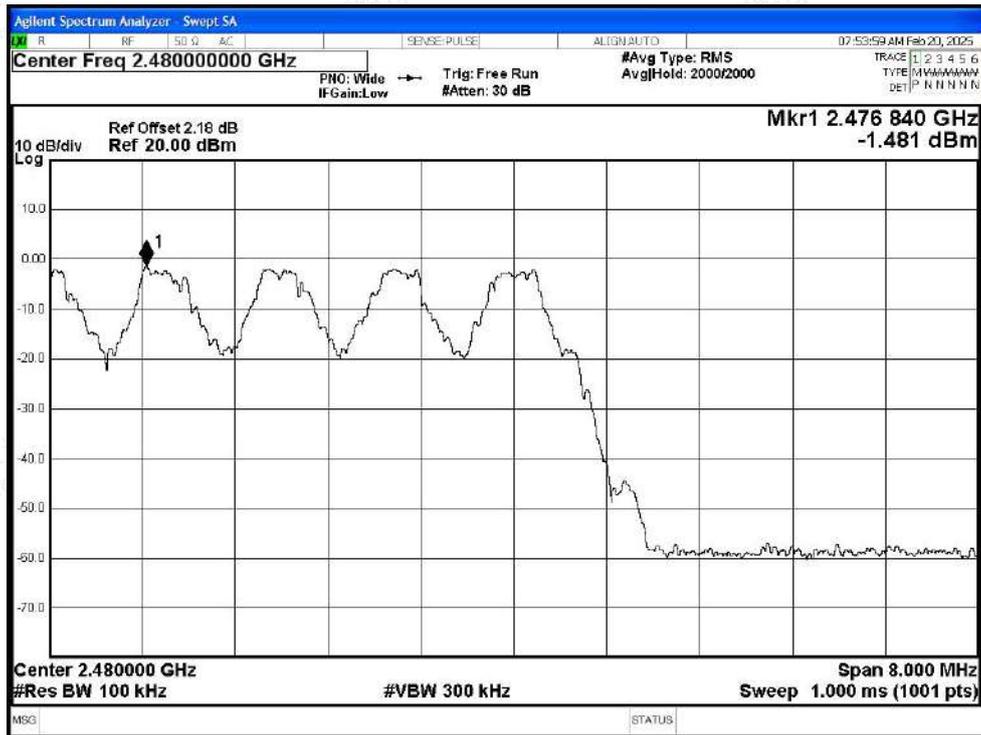


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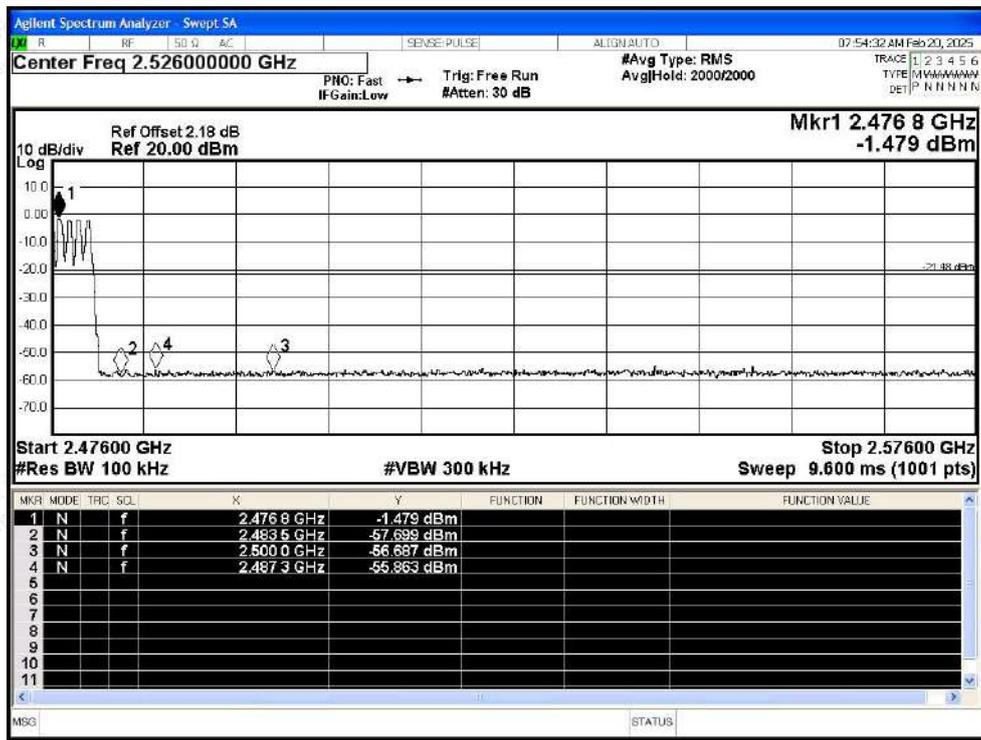




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref



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

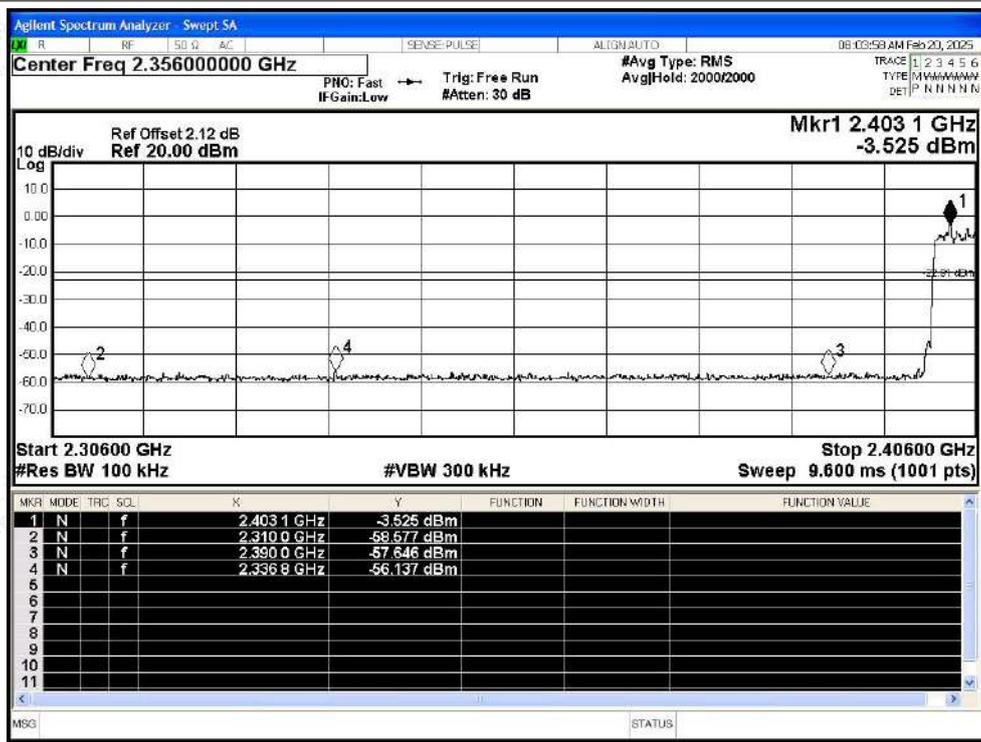




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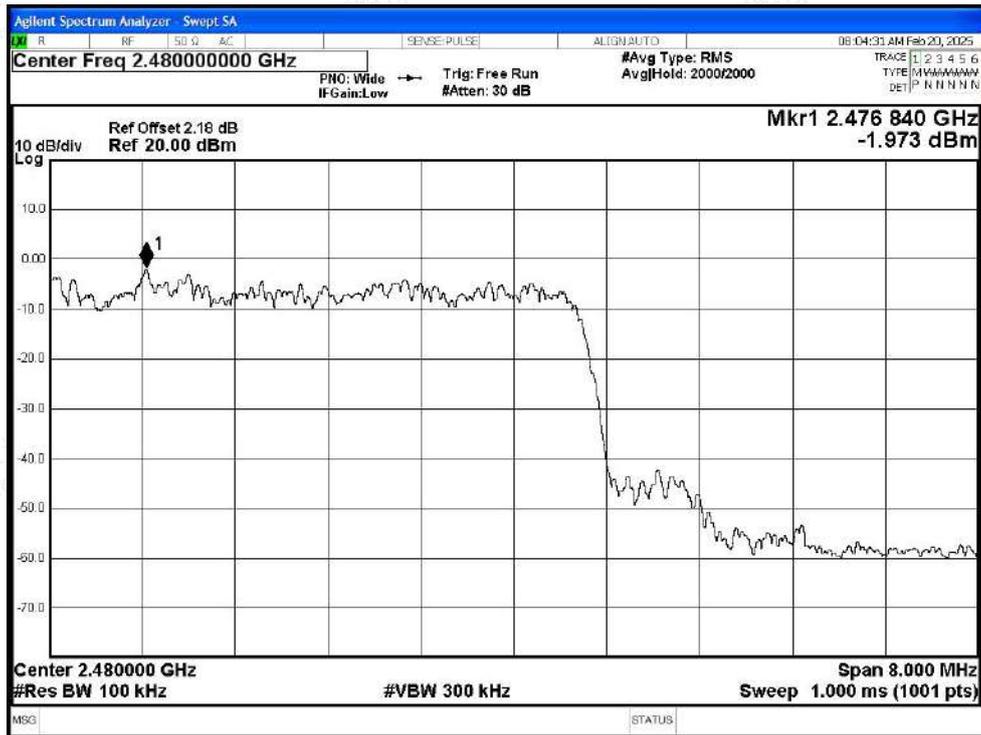


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

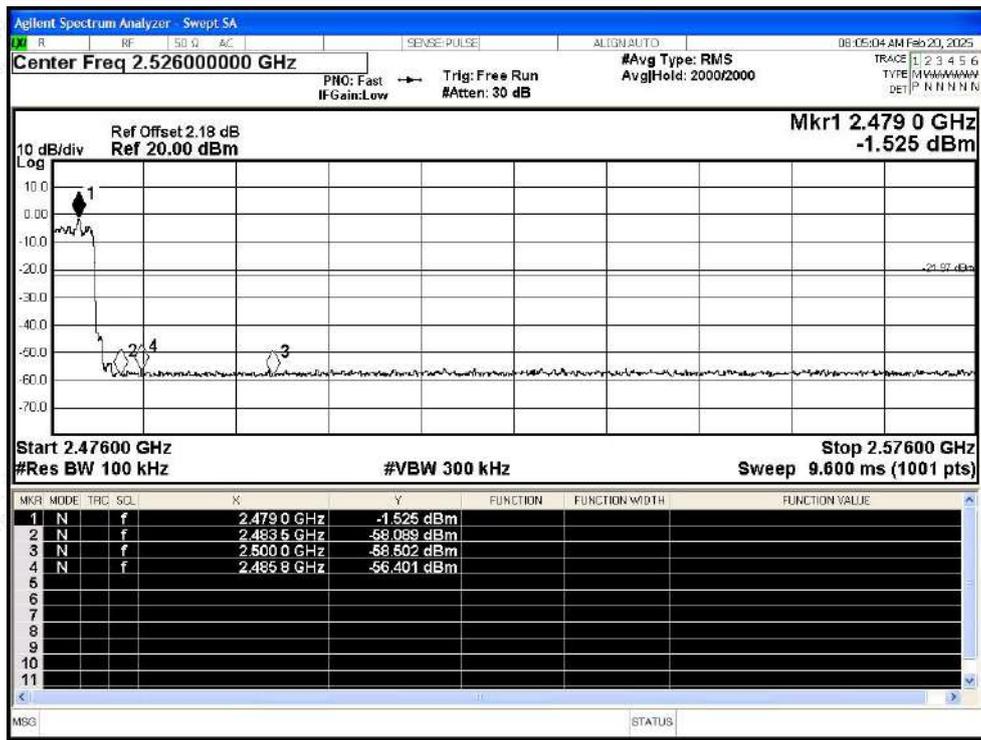




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref

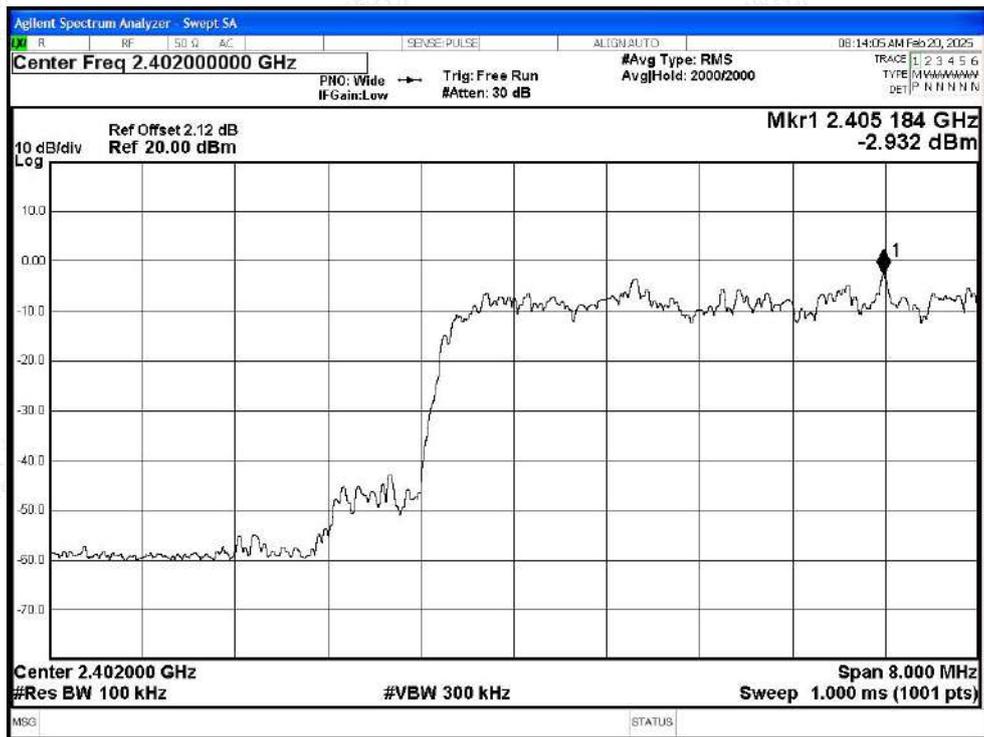


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Emission

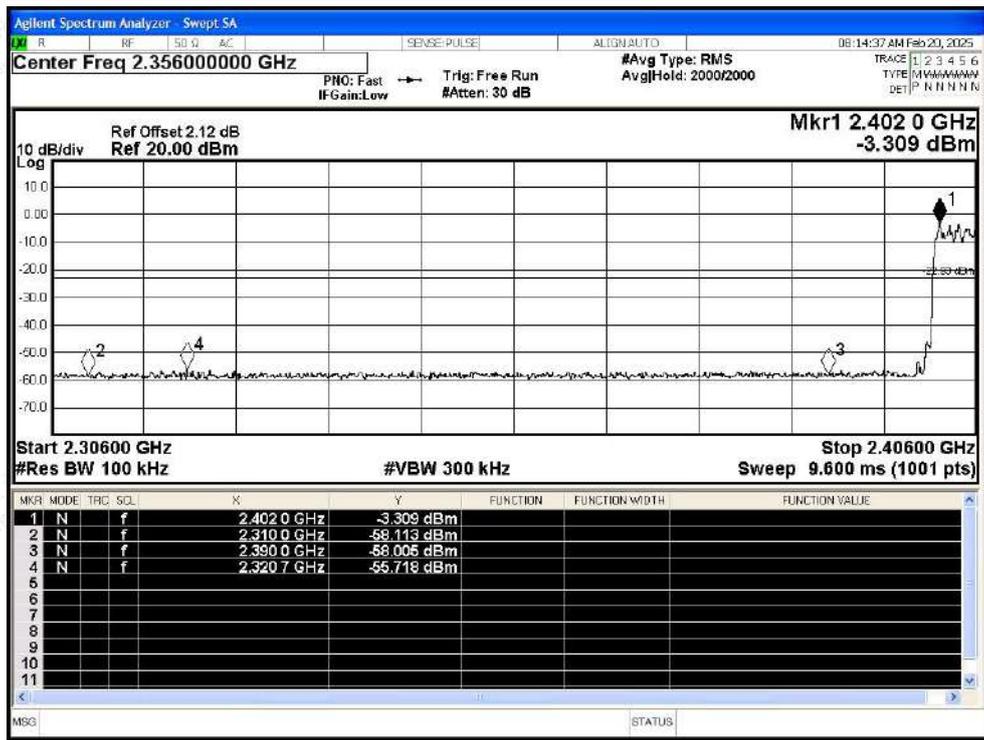




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

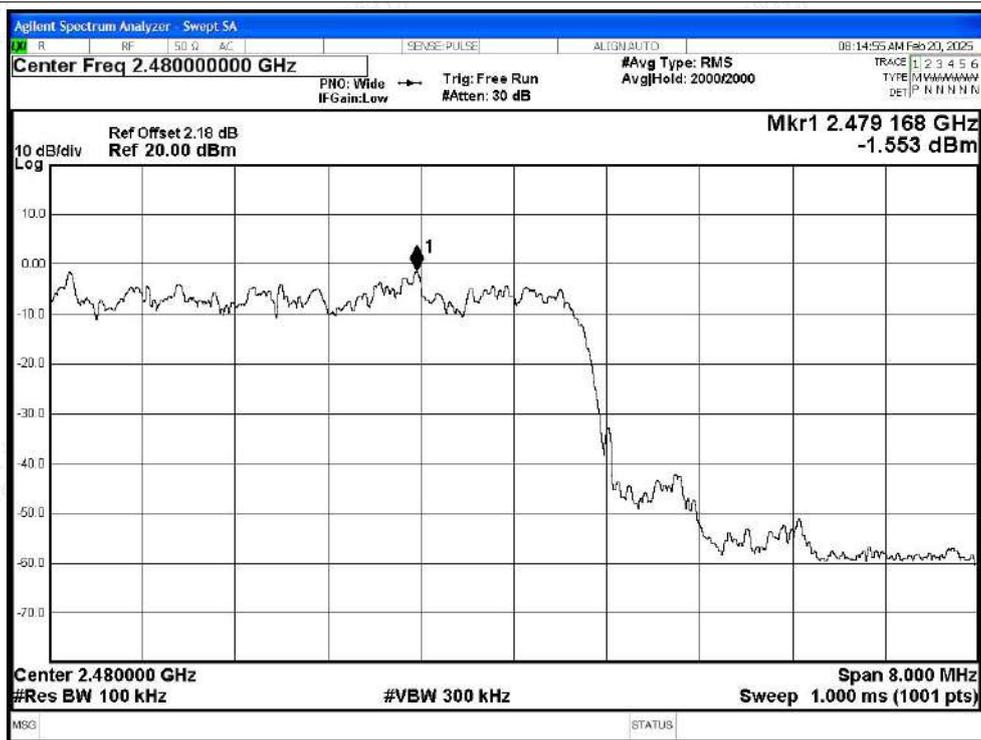


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

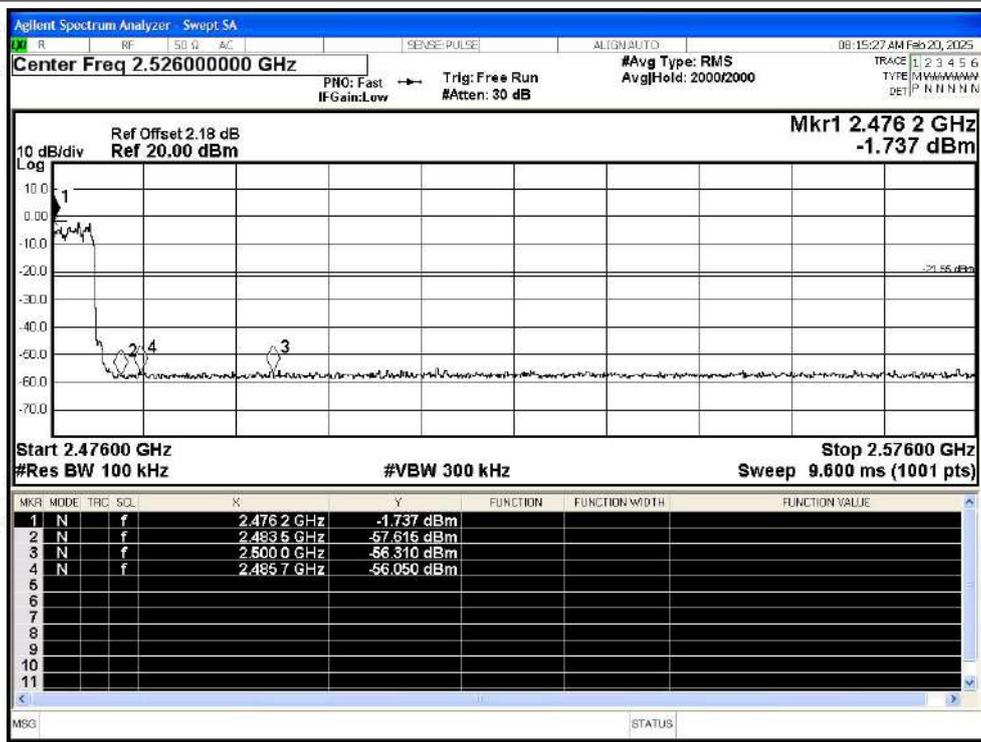




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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





A.7 Conducted RF Spurious Emission

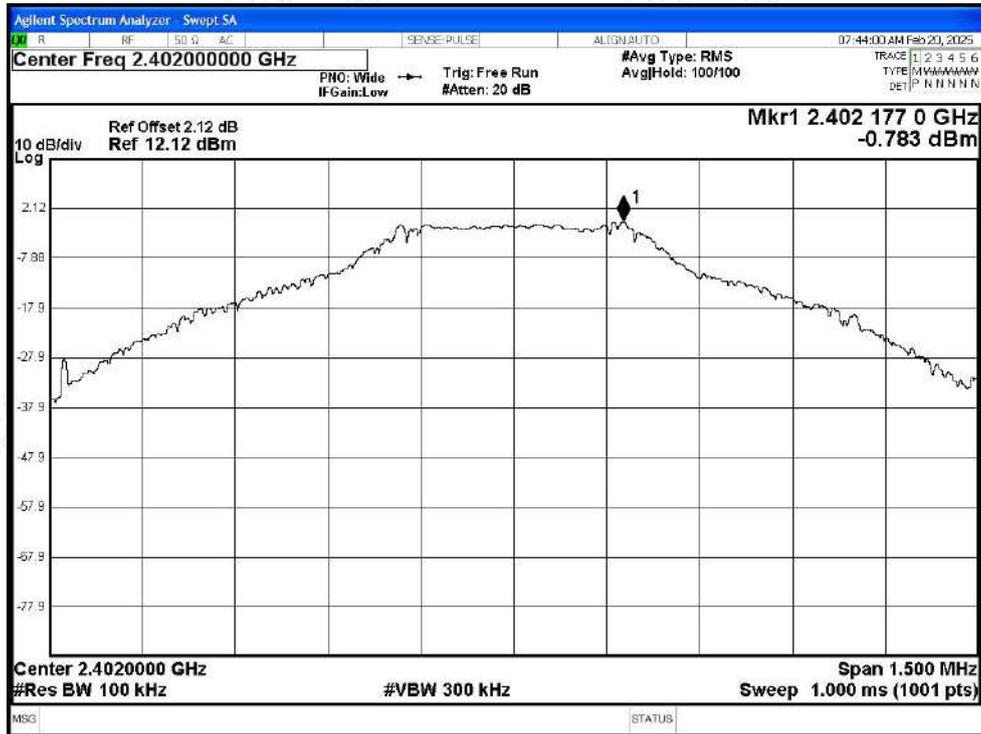
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-54.8	-20	Pass
NVNT	1-DH5	2441	Ant	-54.97	-20	Pass
NVNT	1-DH5	2480	Ant	-54.33	-20	Pass
NVNT	2-DH5	2402	Ant	-54.87	-20	Pass
NVNT	2-DH5	2441	Ant	-53.7	-20	Pass
NVNT	2-DH5	2480	Ant	-53.39	-20	Pass
NVNT	3-DH5	2402	Ant	-53.95	-20	Pass
NVNT	3-DH5	2441	Ant	-54.66	-20	Pass
NVNT	3-DH5	2480	Ant	-53.27	-20	Pass



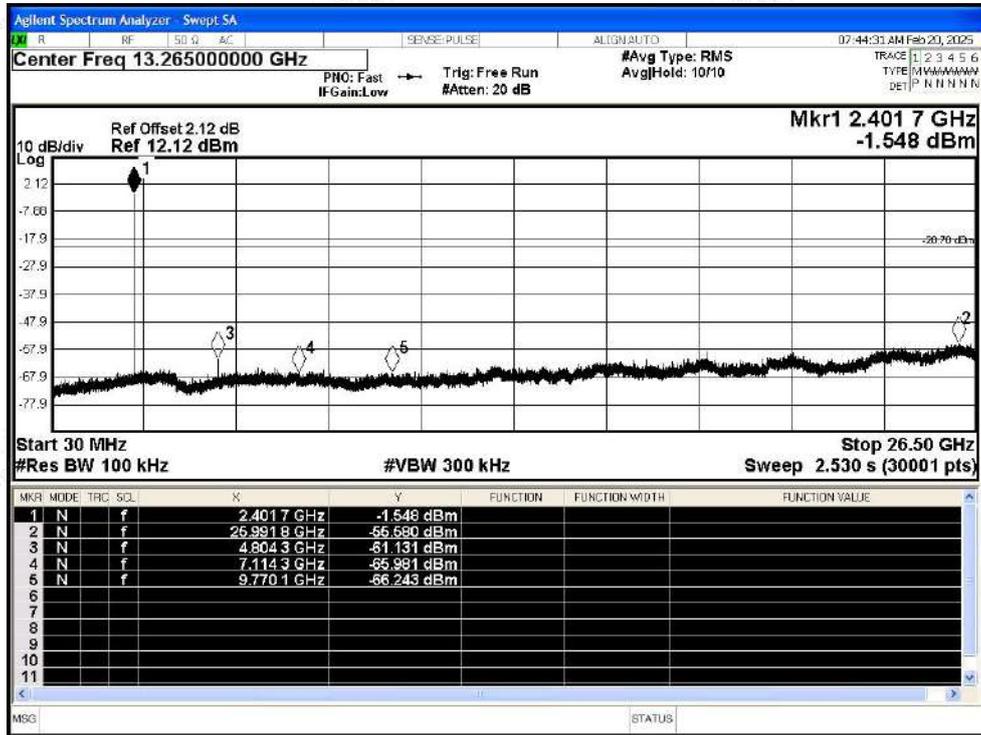


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

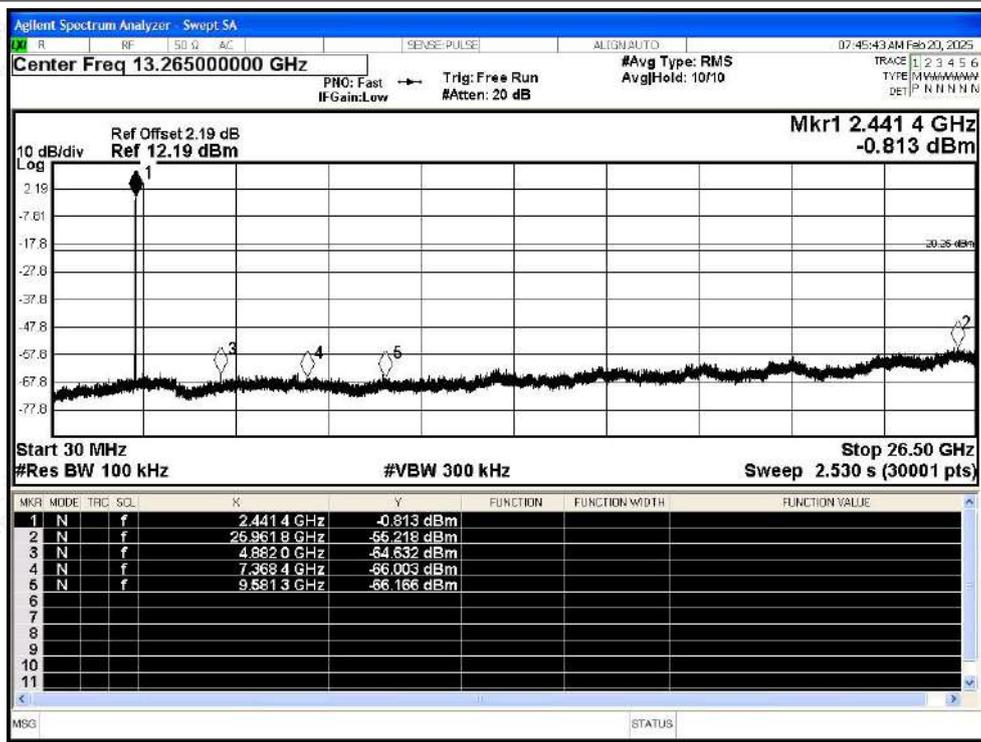




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

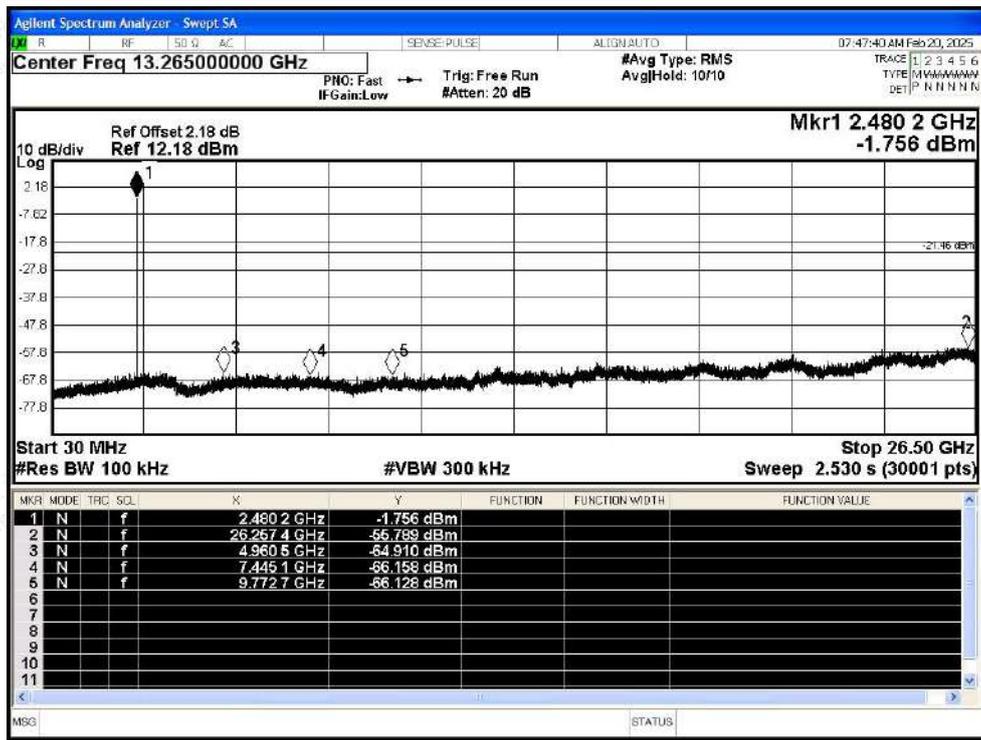




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

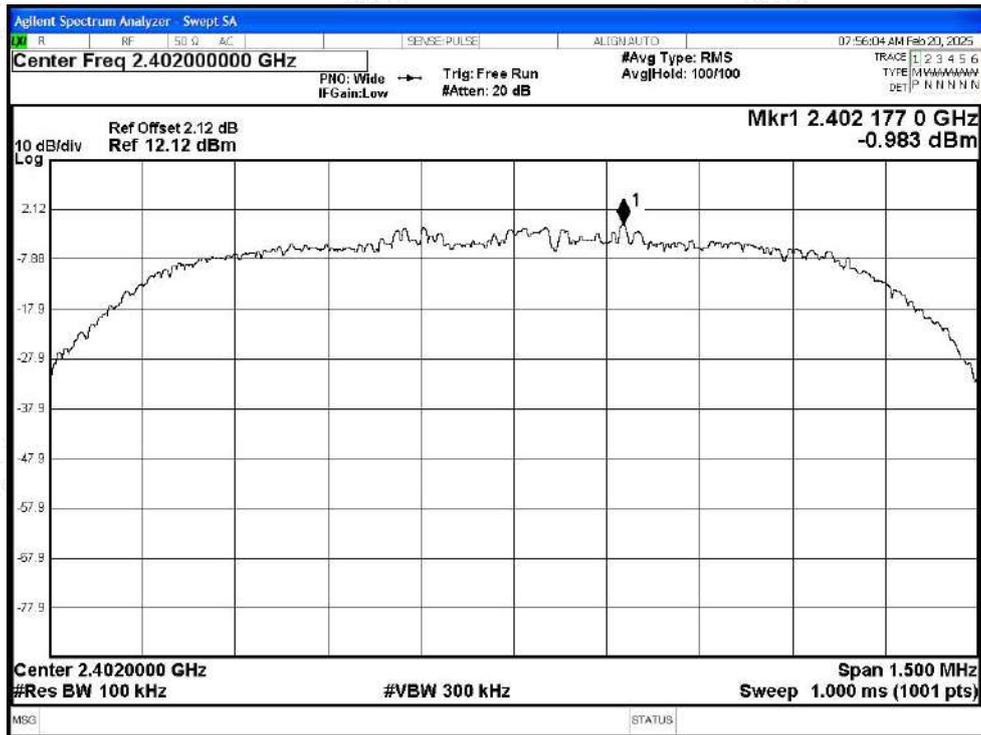


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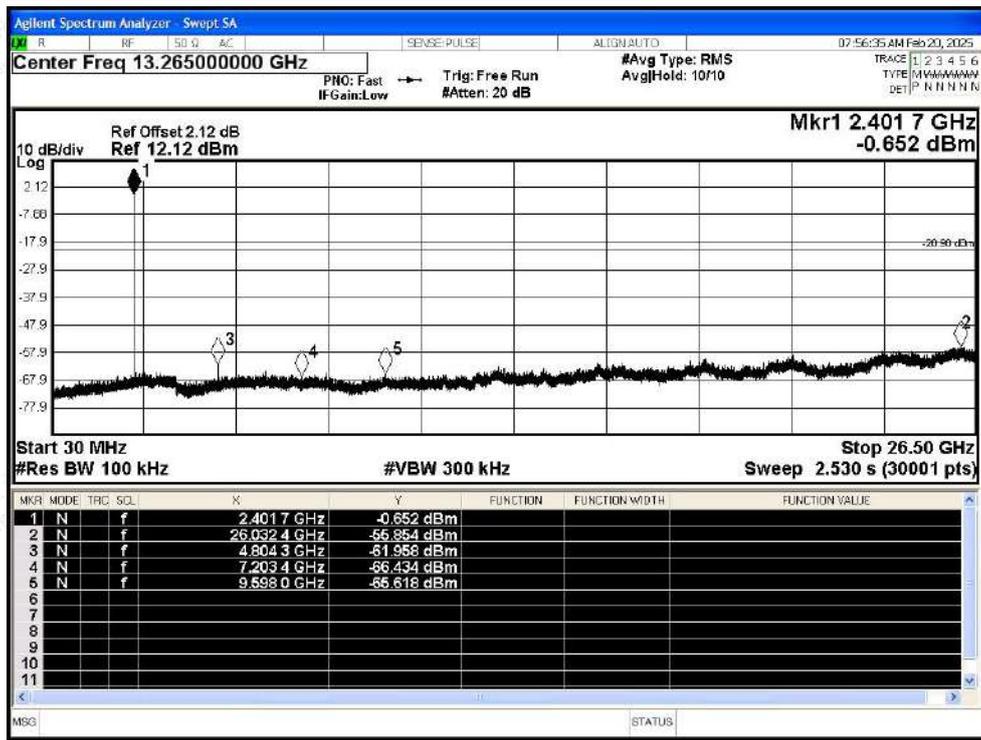




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

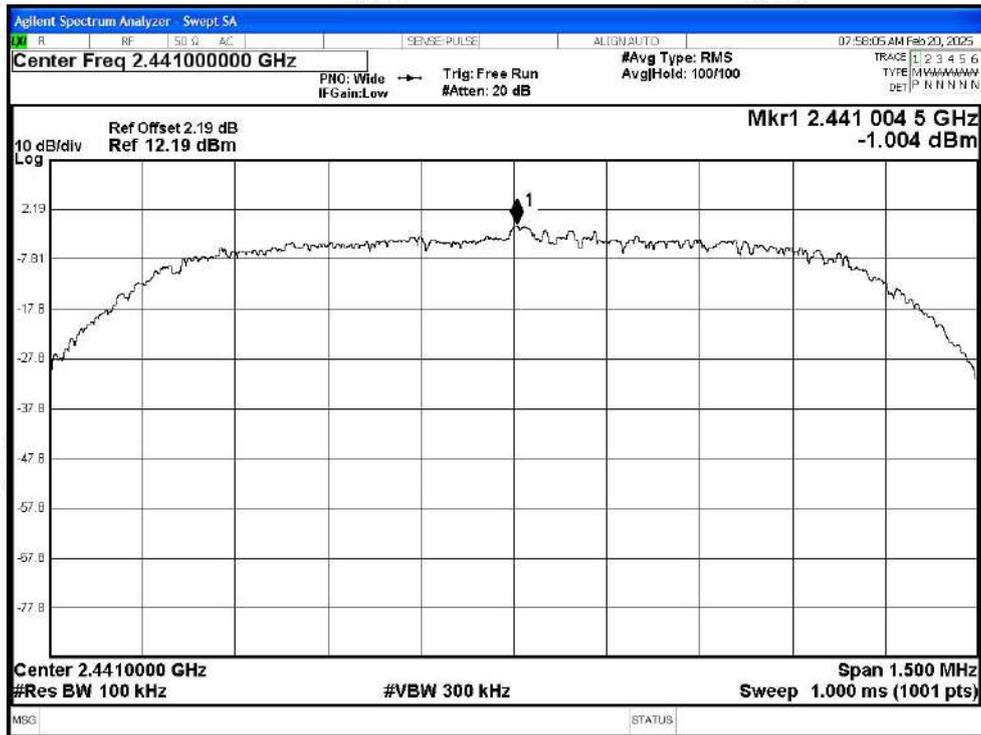


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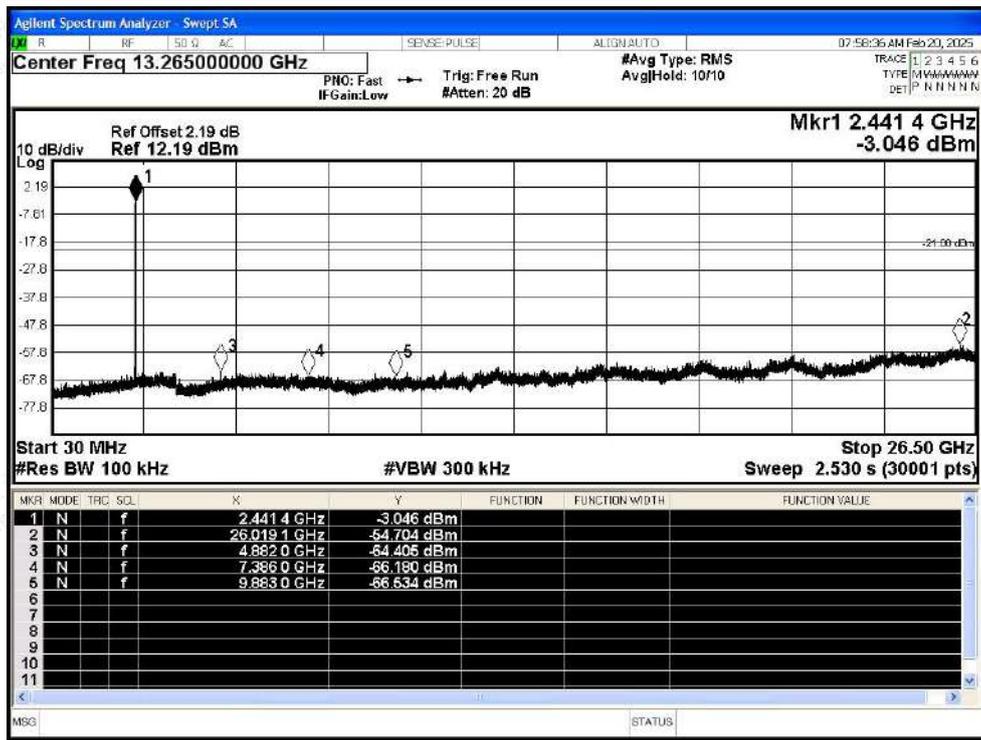




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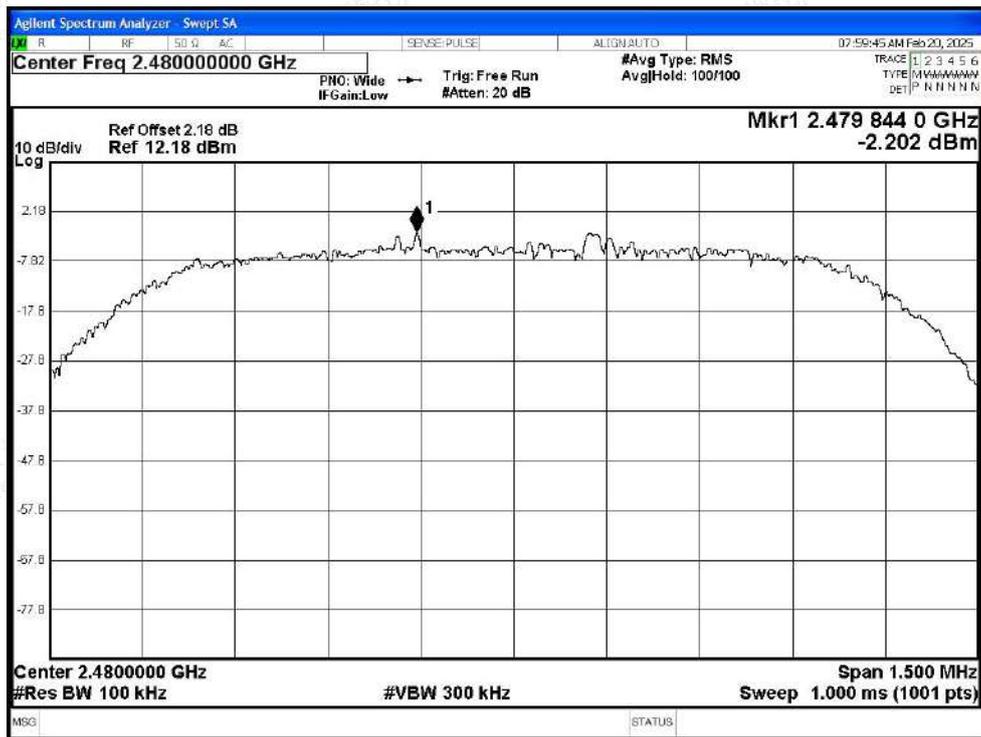


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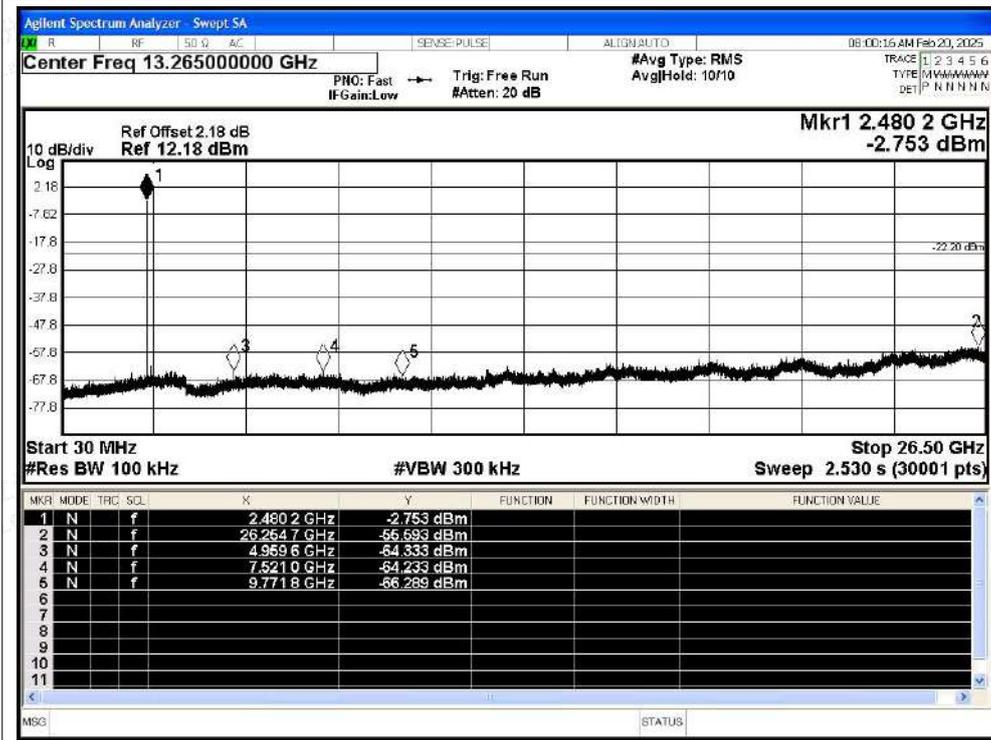




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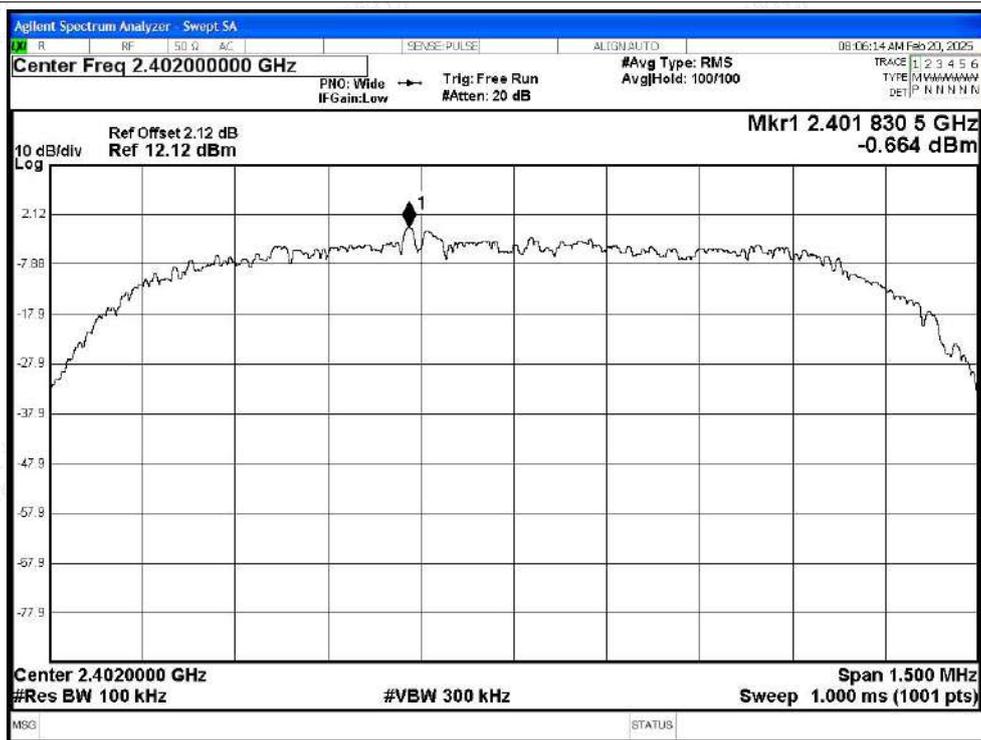


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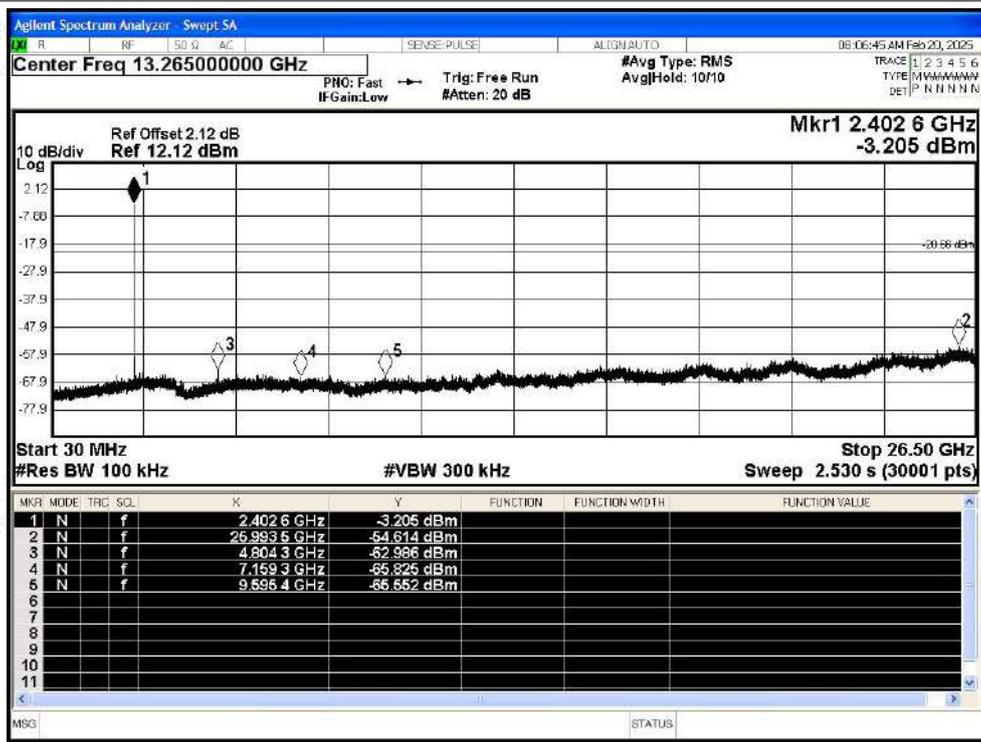




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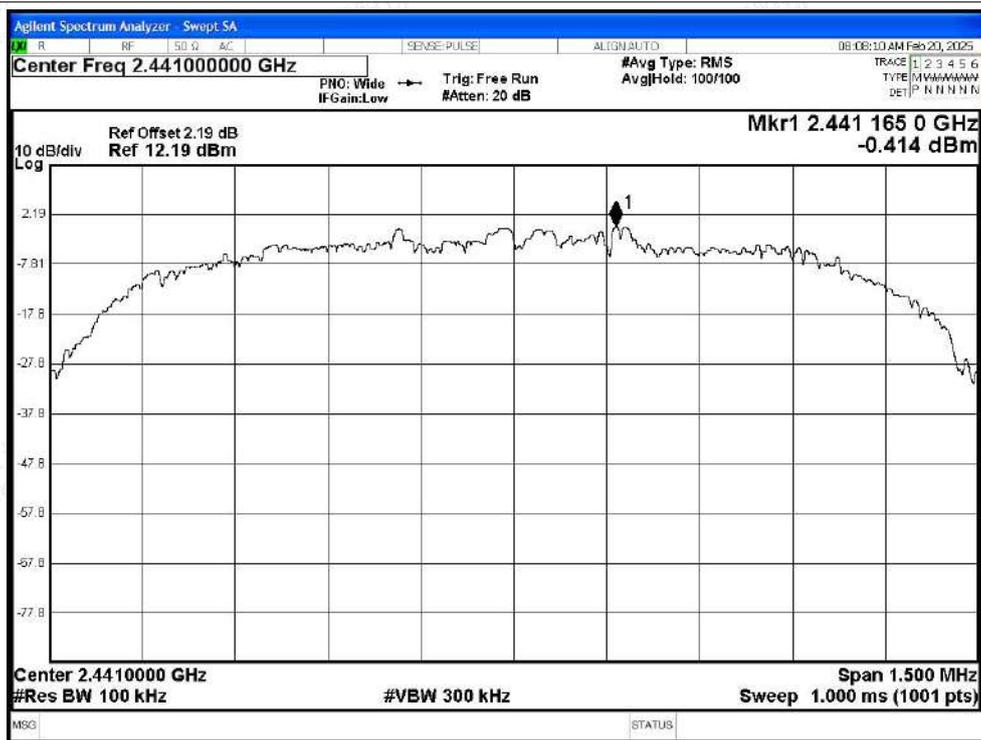


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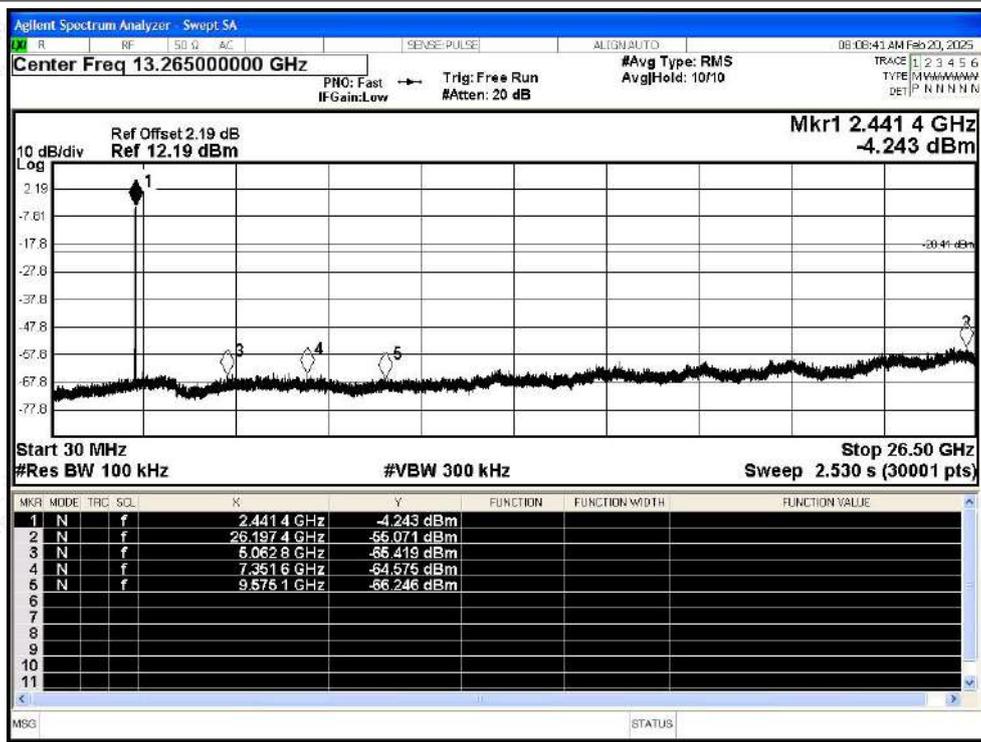




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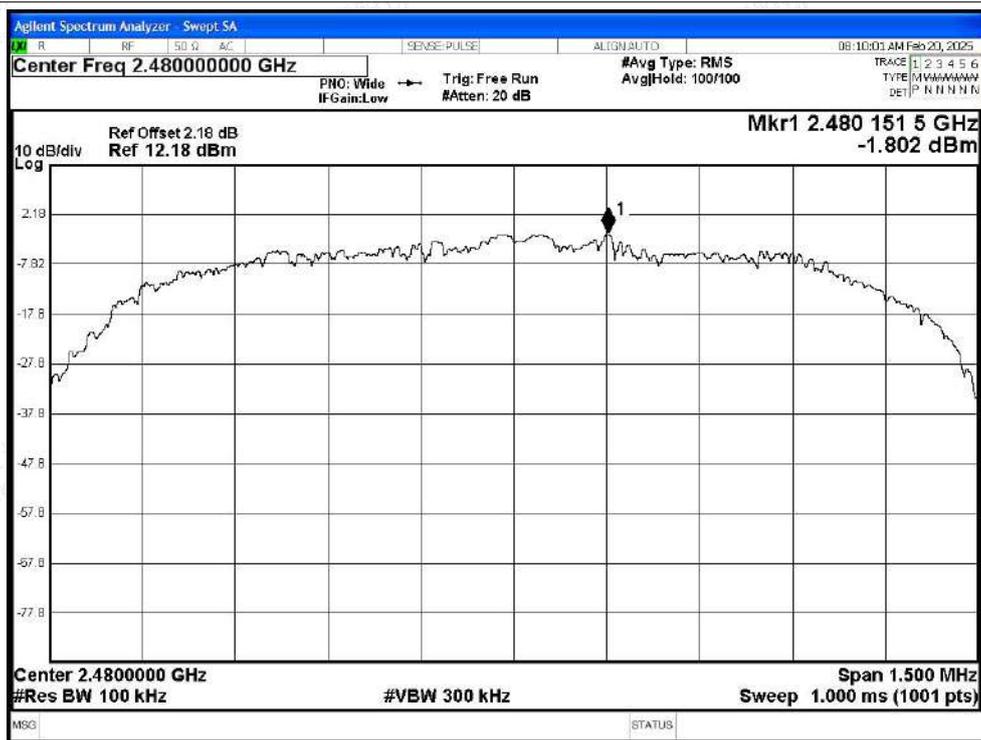


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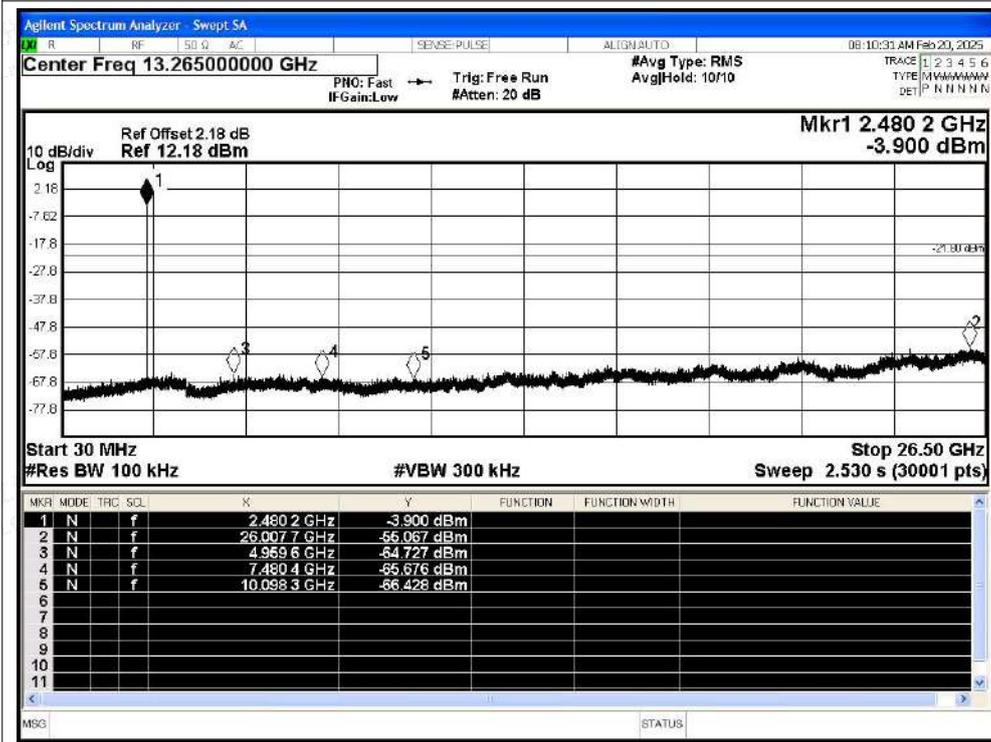




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission





A.8 Duty Cycle

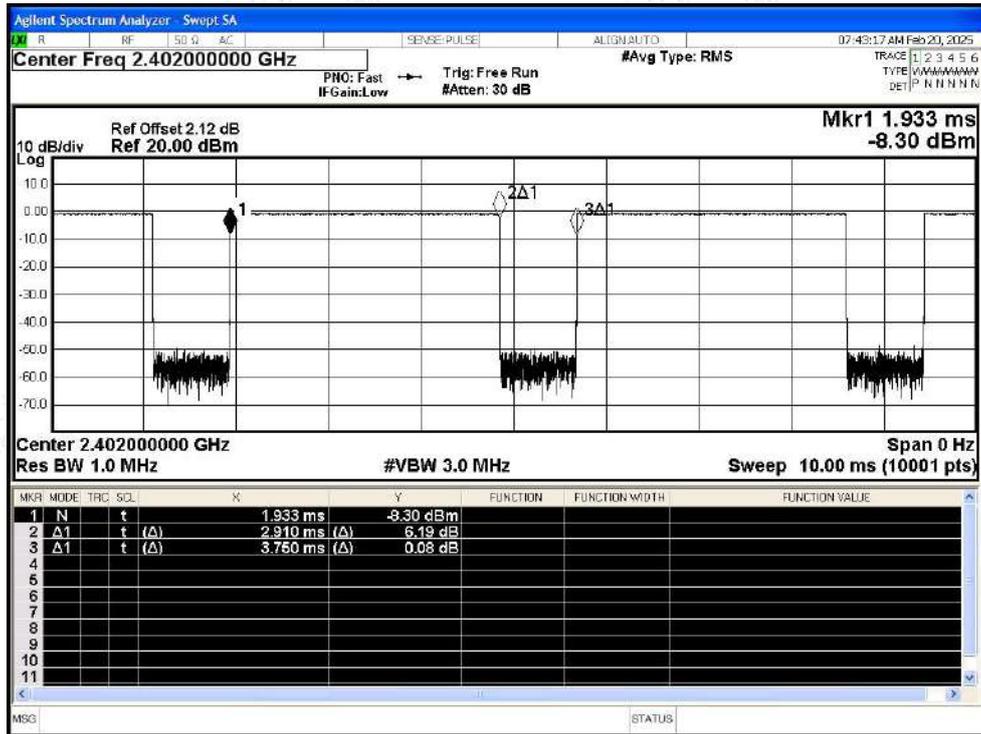
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant	77.28	1.12	0.35



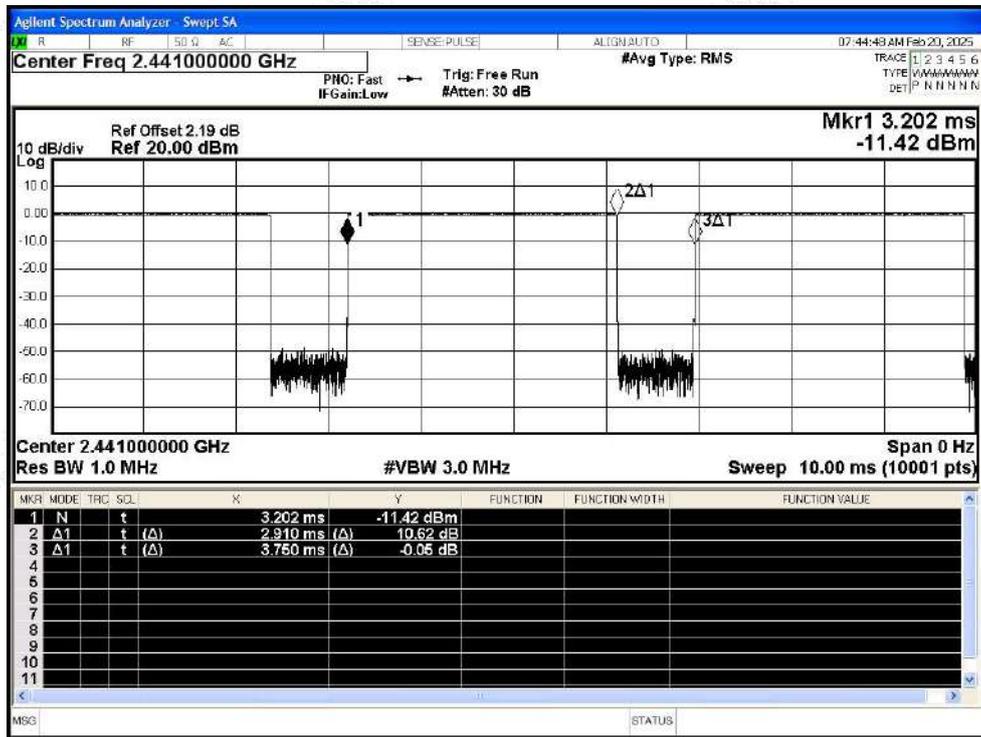


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant

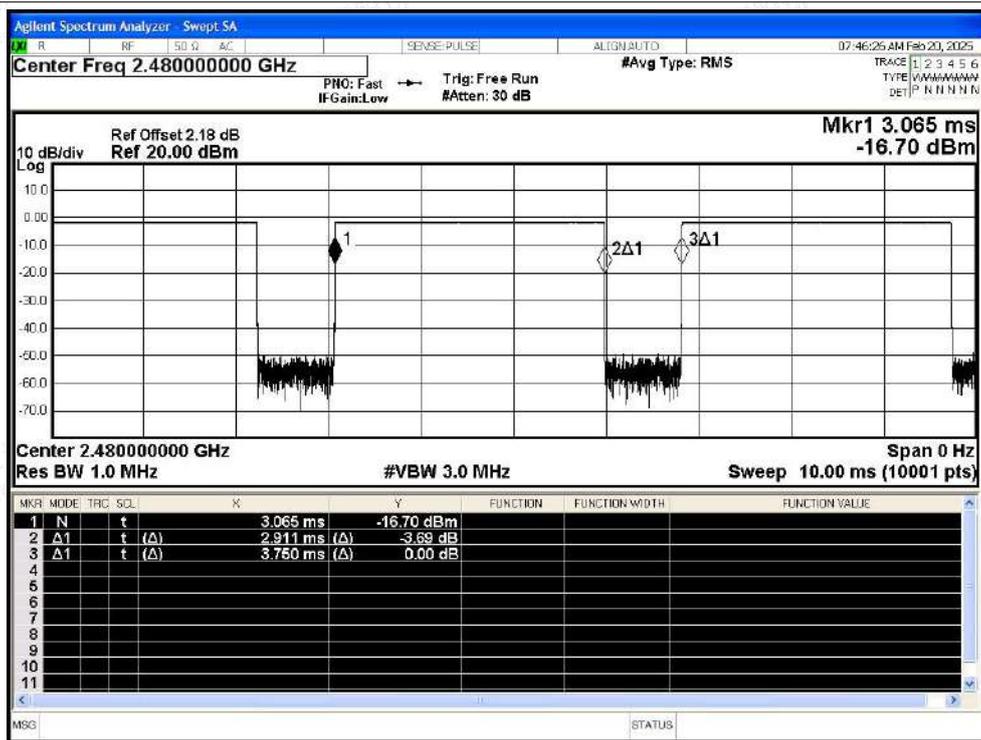


Duty Cycle NVNT 1-DH5 2441MHz Ant

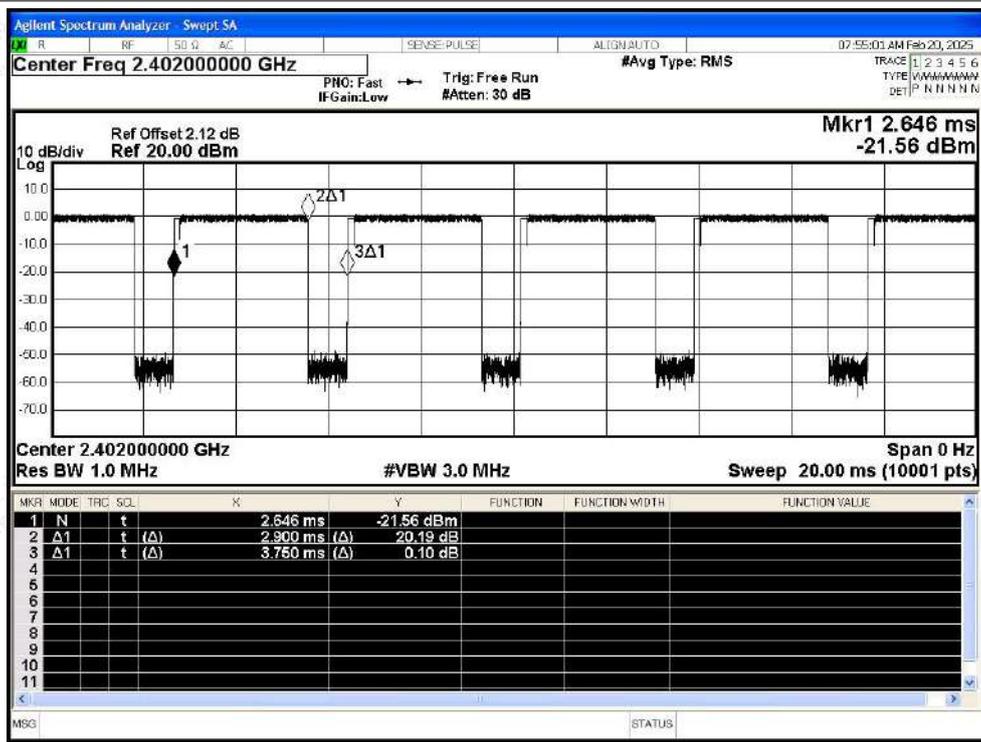




Duty Cycle NVNT 1-DH5 2480MHz Ant

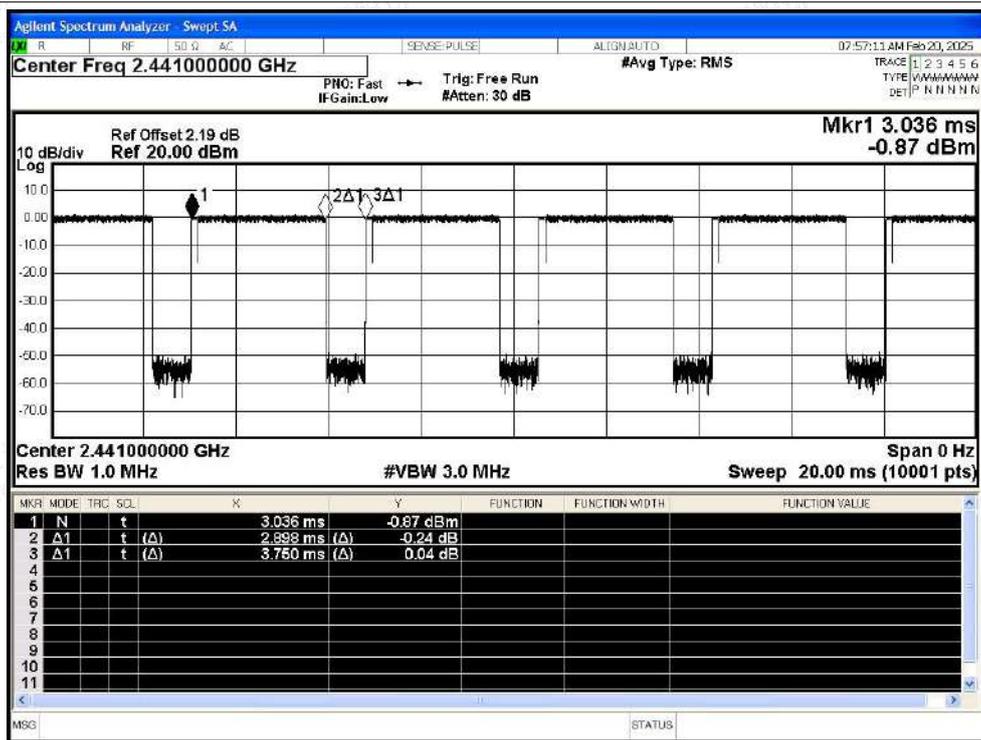


Duty Cycle NVNT 2-DH5 2402MHz Ant

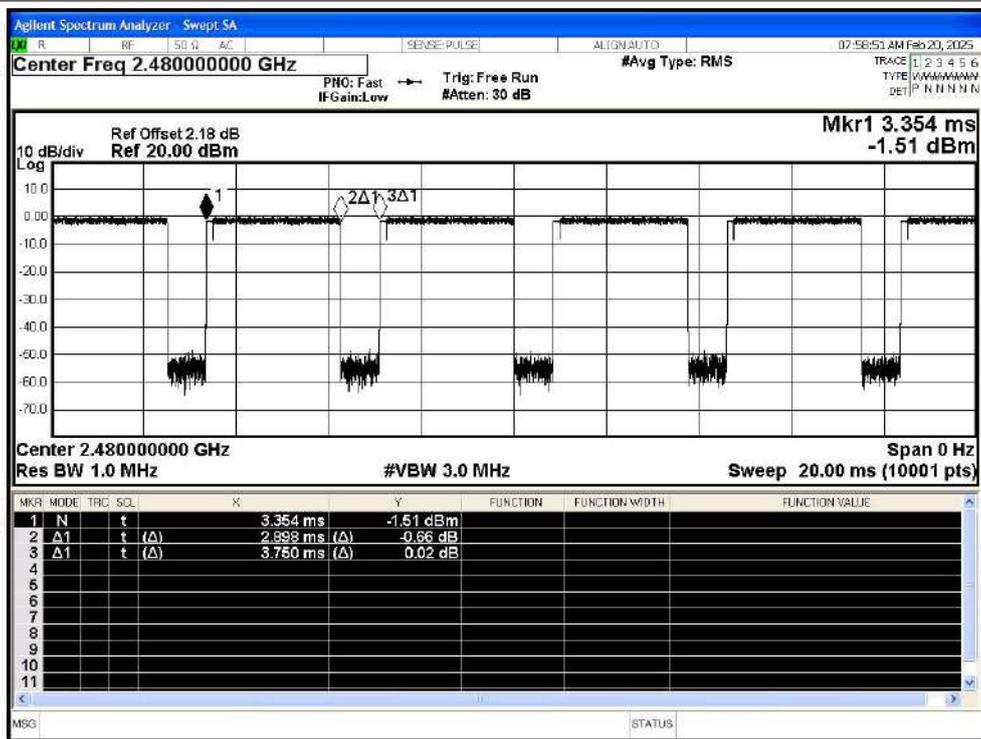




Duty Cycle NVNT 2-DH5 2441MHz Ant

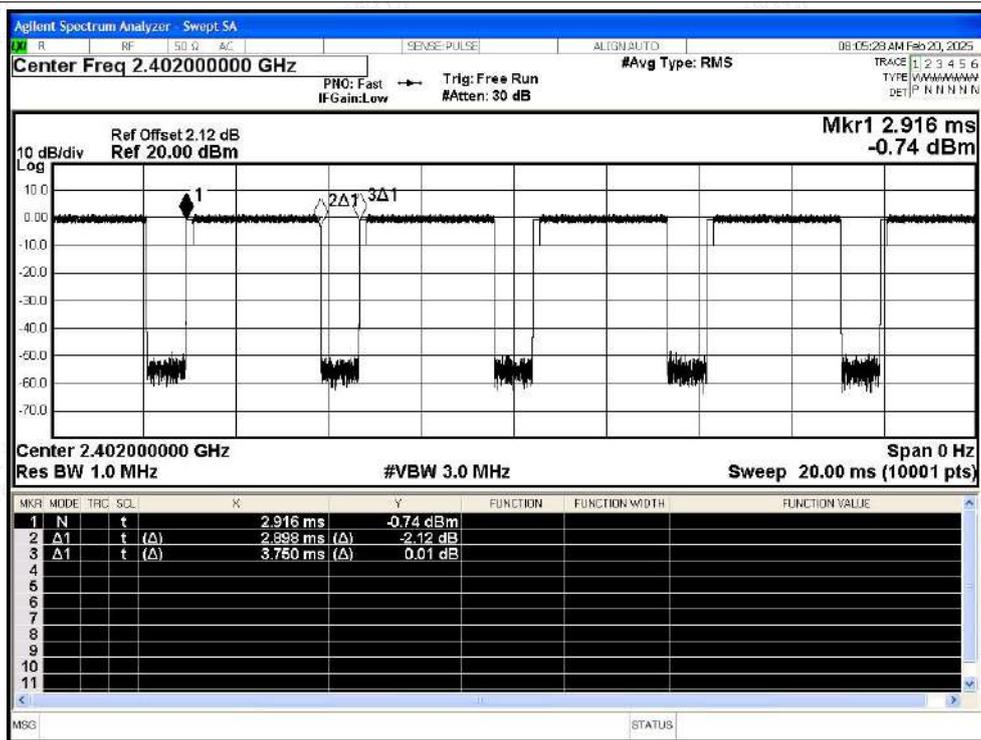


Duty Cycle NVNT 2-DH5 2480MHz Ant

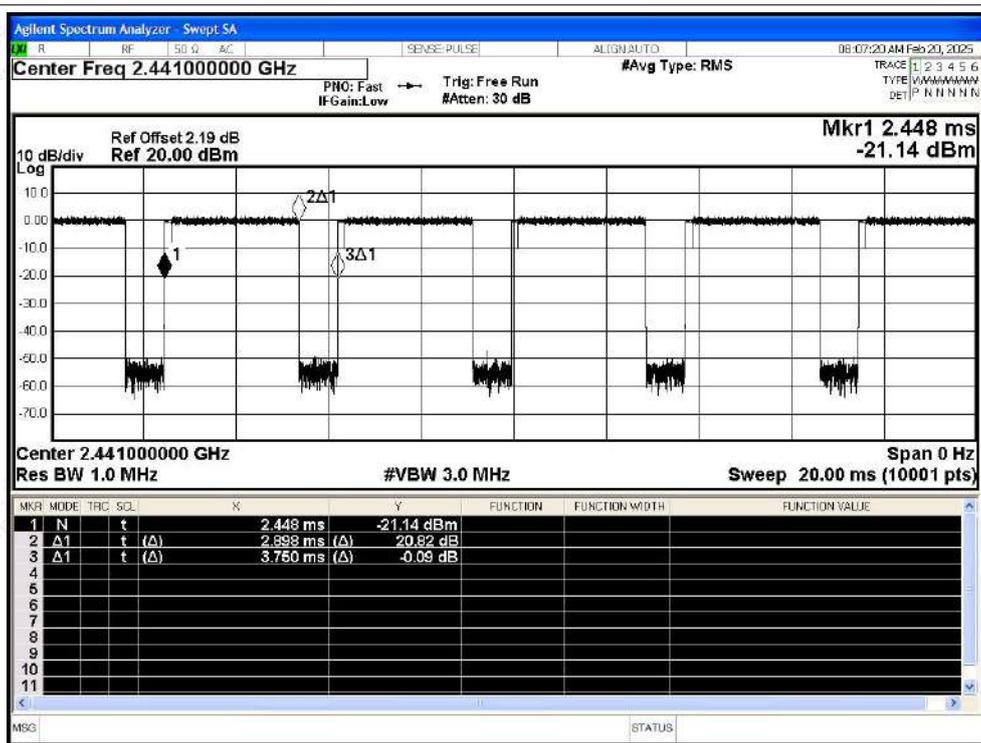


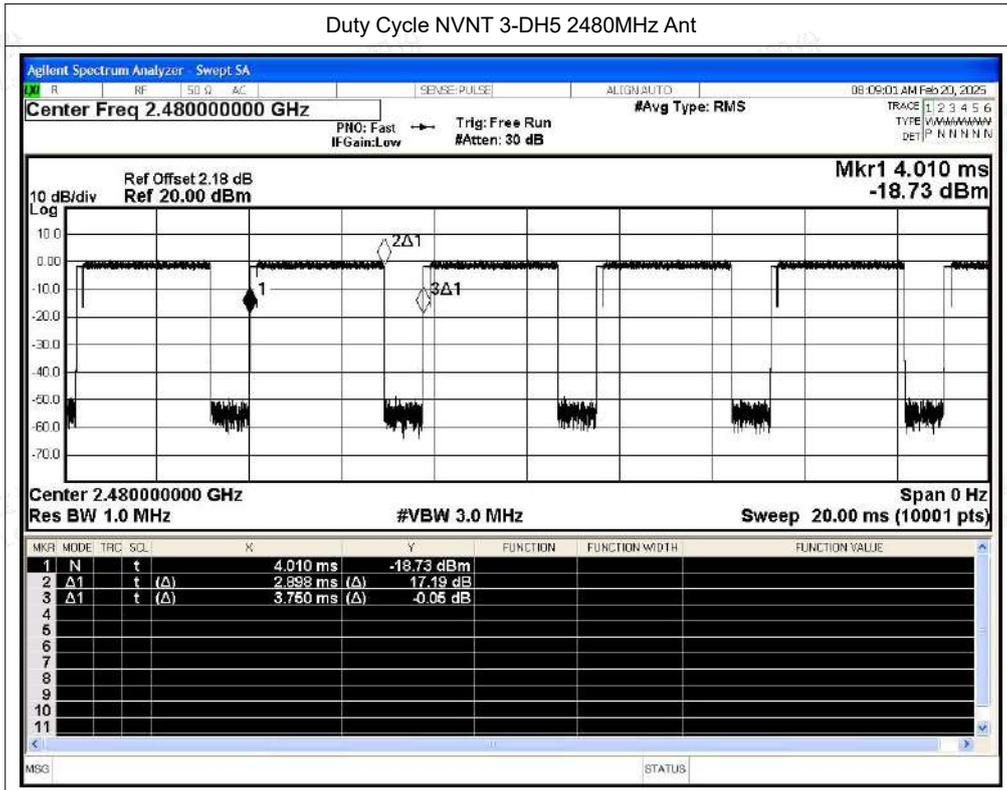


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant







A.9 Restrict Band

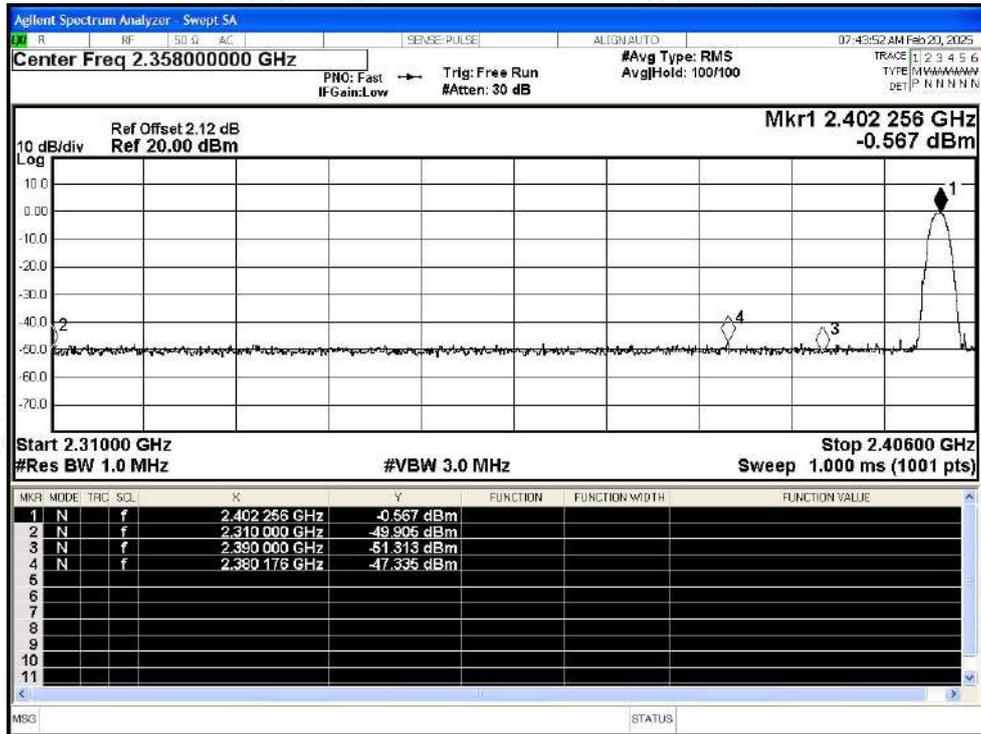
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-49.91	2.67	-	48.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.57	2.67	1.1	40.46	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2380.176	-47.34	2.67	-	50.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2389.008	-57.5	2.67	1.1	41.53	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-51.31	2.67	-	46.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.52	2.67	1.1	40.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-49.54	2.67	-	48.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-57.89	2.67	1.1	41.14	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2495.344	-46.89	2.67	-	51.04	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2493.76	-56.98	2.67	1.1	42.05	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.71	2.67	-	47.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-58.2	2.67	1.1	40.83	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-52.21	2.67	-	45.72	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.38	2.67	0	39.55	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2373.456	-45.99	2.67	-	51.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2376.912	-57.72	2.67	0	40.21	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.85	2.67	-	47.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.95	2.67	0	39.98	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-48.84	2.67	-	49.09	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-57.12	2.67	1.12	41.93	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2496.64	-47.2	2.67	-	50.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2495.8	-56.98	2.67	1.12	42.07	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-49.62	2.67	-	48.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.98	2.67	1.12	41.07	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.46	2.67	-	47.47	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.67	2.67	1.12	40.38	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2317.2	-46.51	2.67	-	51.42	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2368.848	-57.67	2.67	1.12	41.38	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.1	2.67	-	48.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-58.87	2.67	1.12	40.18	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-48.79	2.67	-	49.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-57.21	2.67	1.12	41.84	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2486.008	-46.33	2.67	-	51.60	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2484.016	-56.82	2.67	1.12	42.23	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-49.71	2.67	-	48.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.54	2.67	1.12	41.51	Average	54	Pass



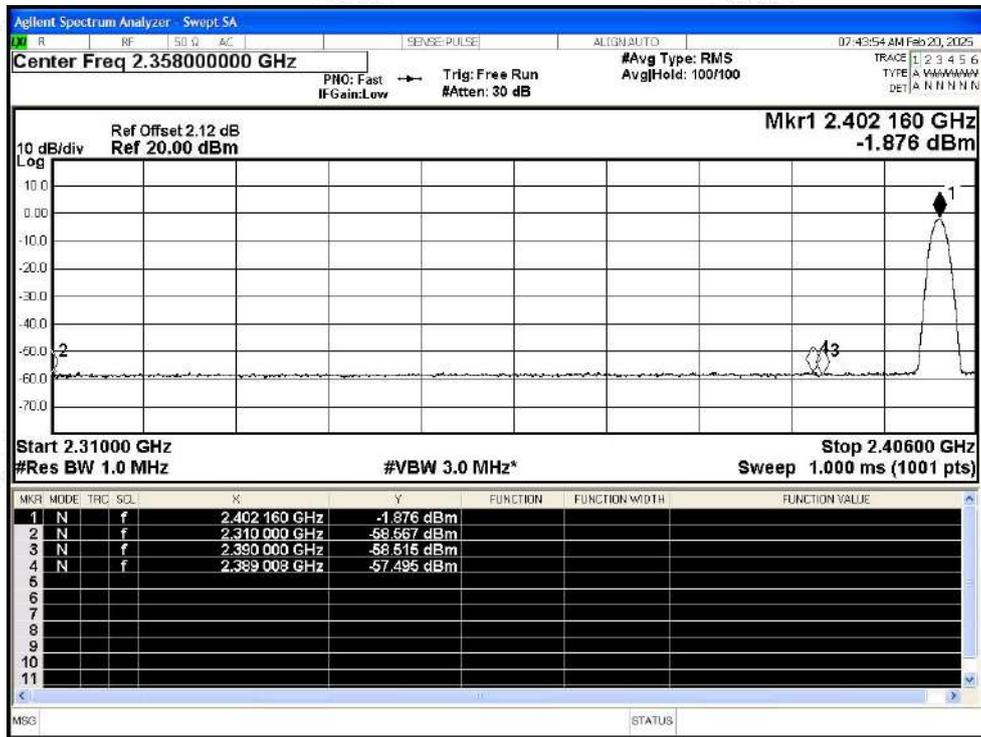


Test Graphs

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

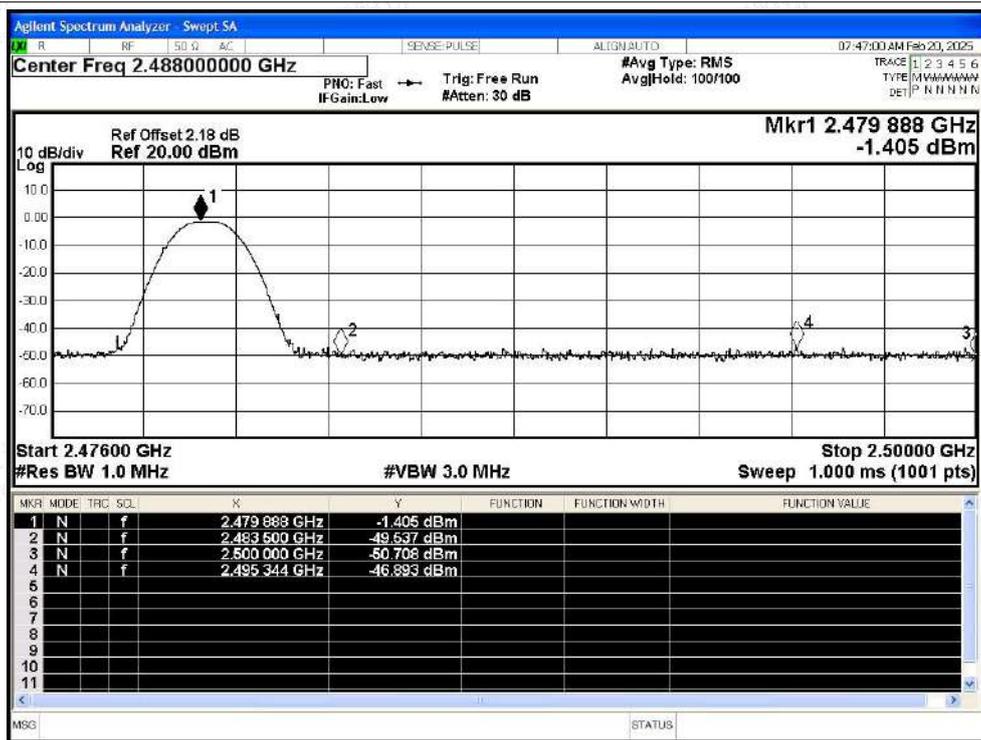


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

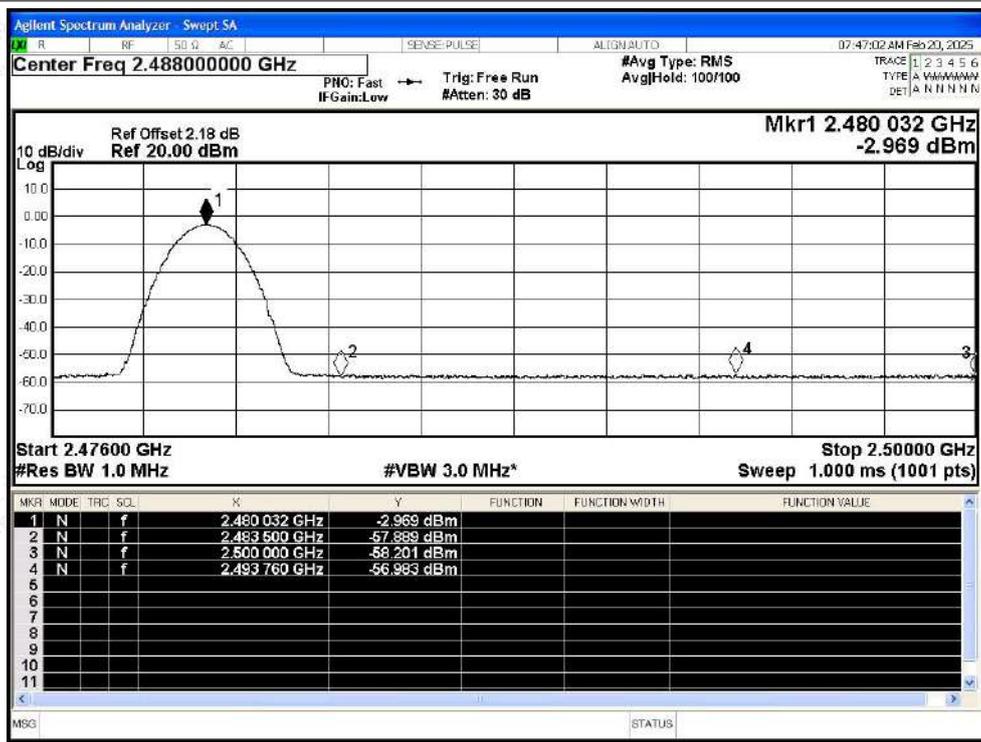




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

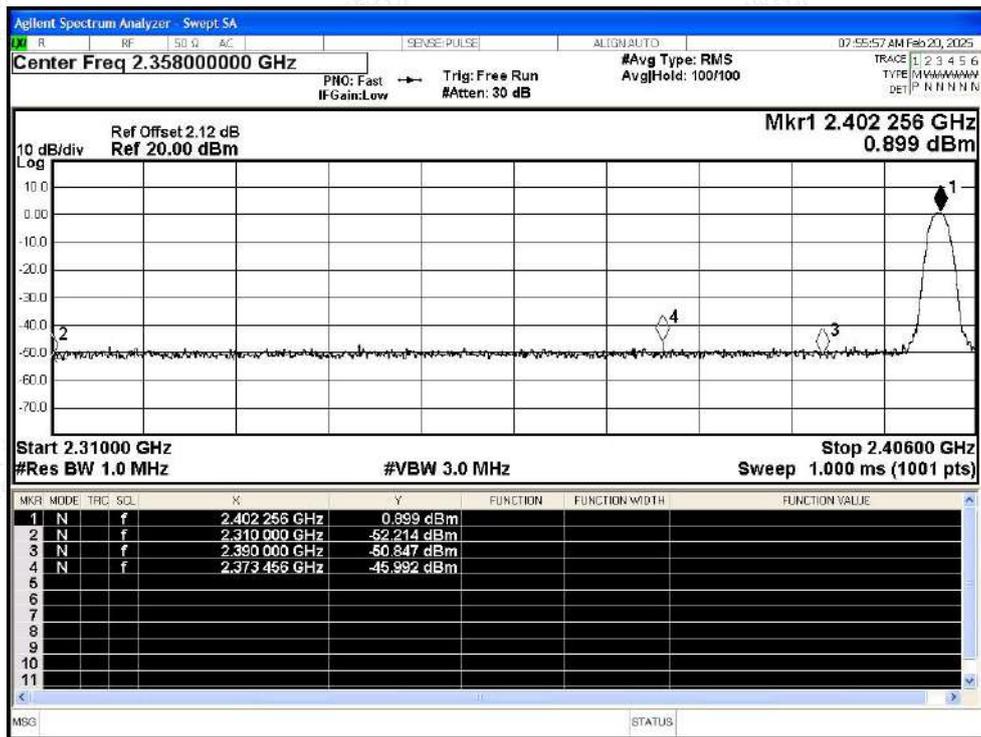
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

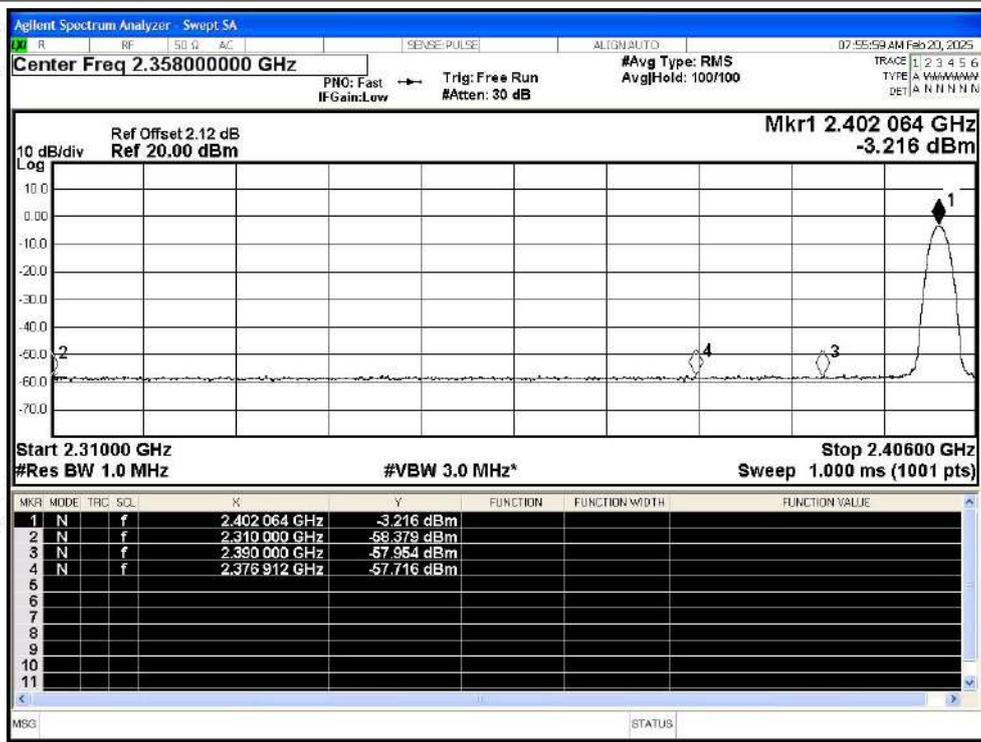
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Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

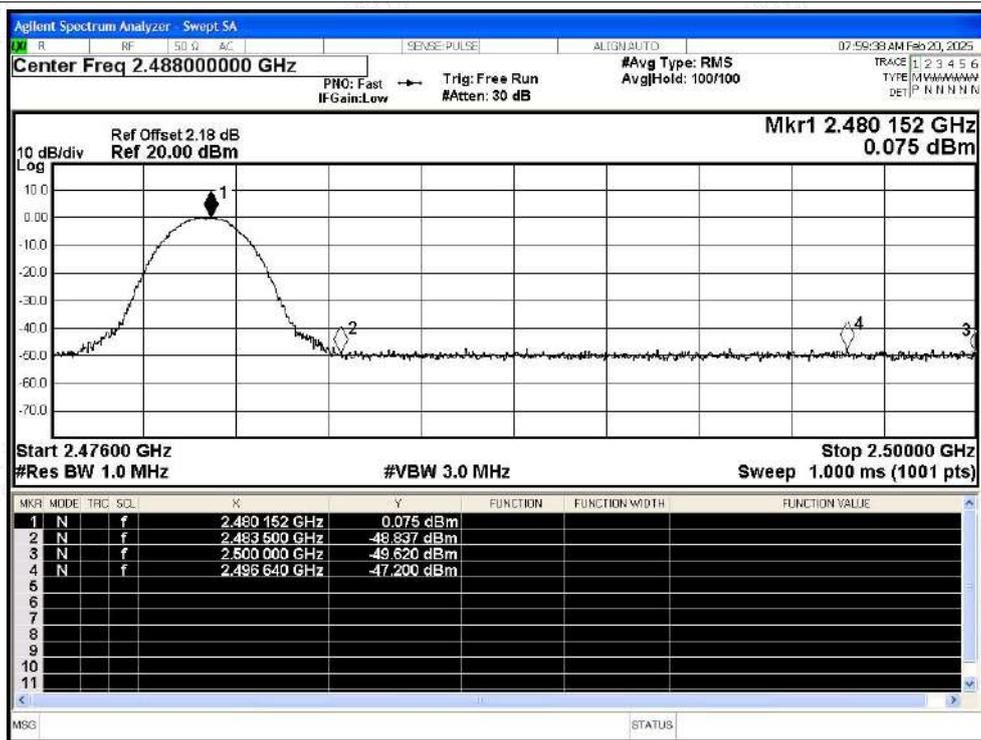


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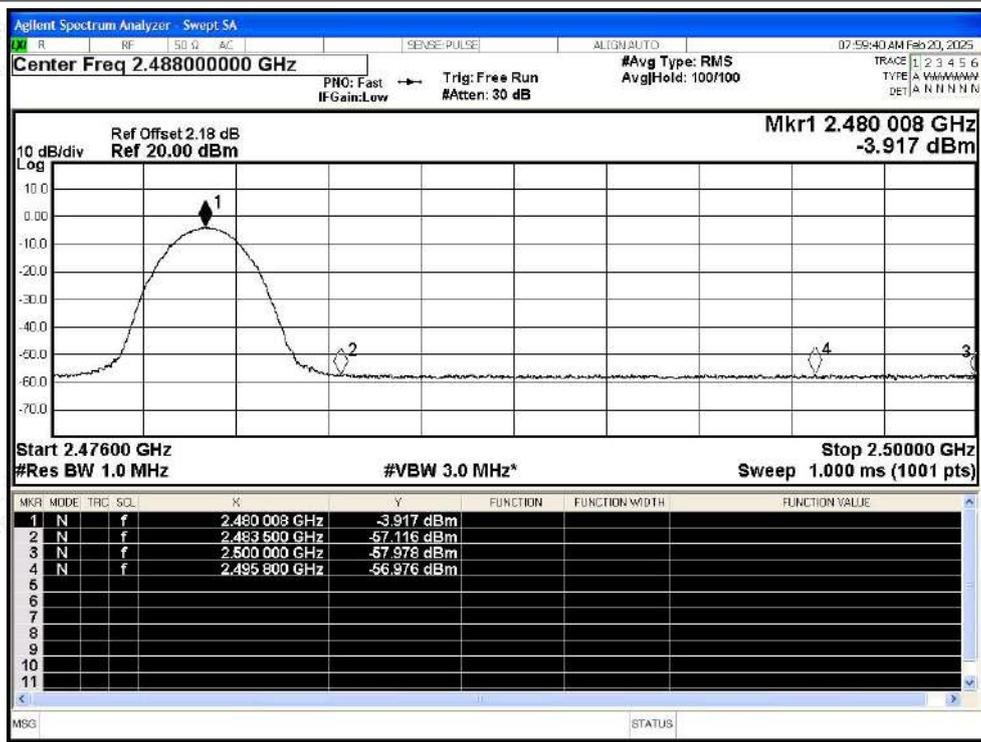




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

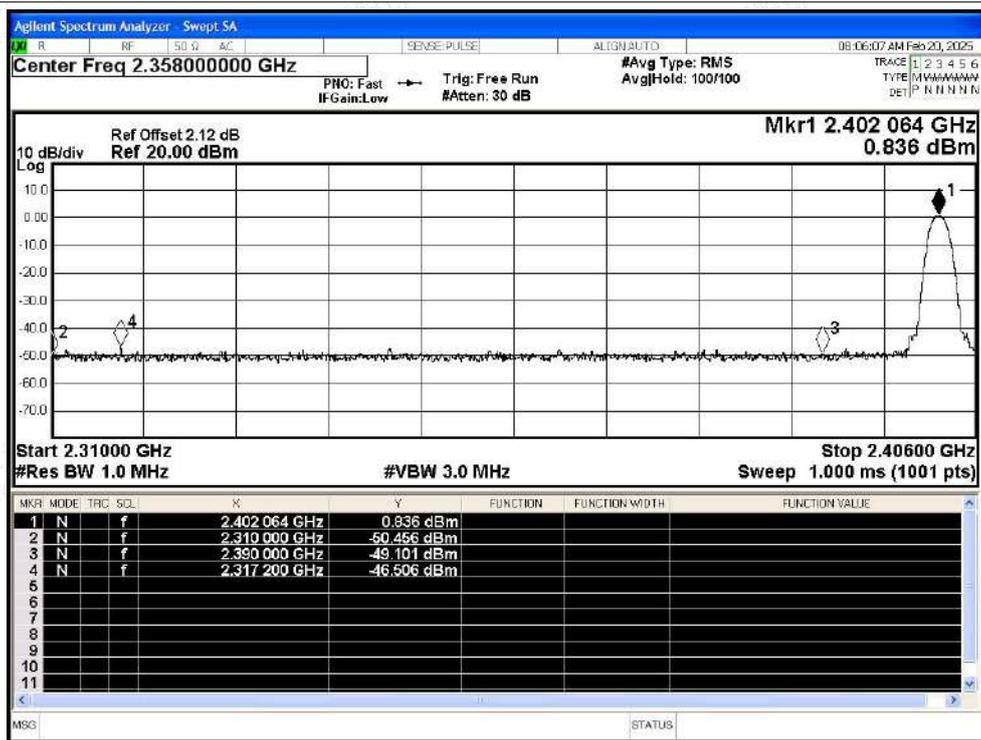


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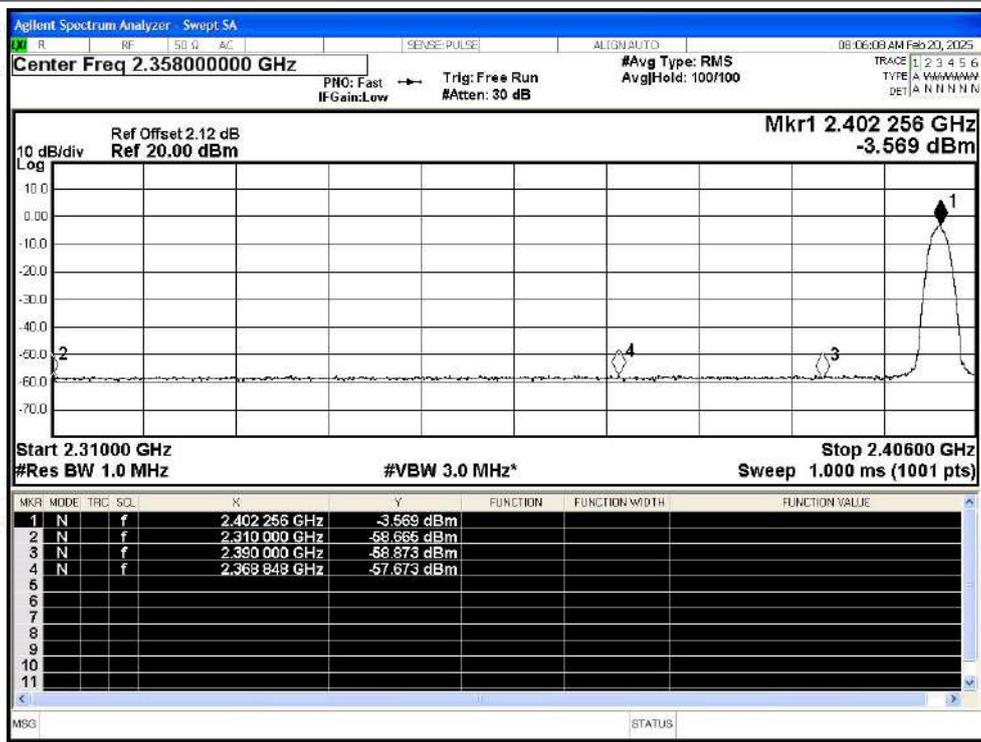




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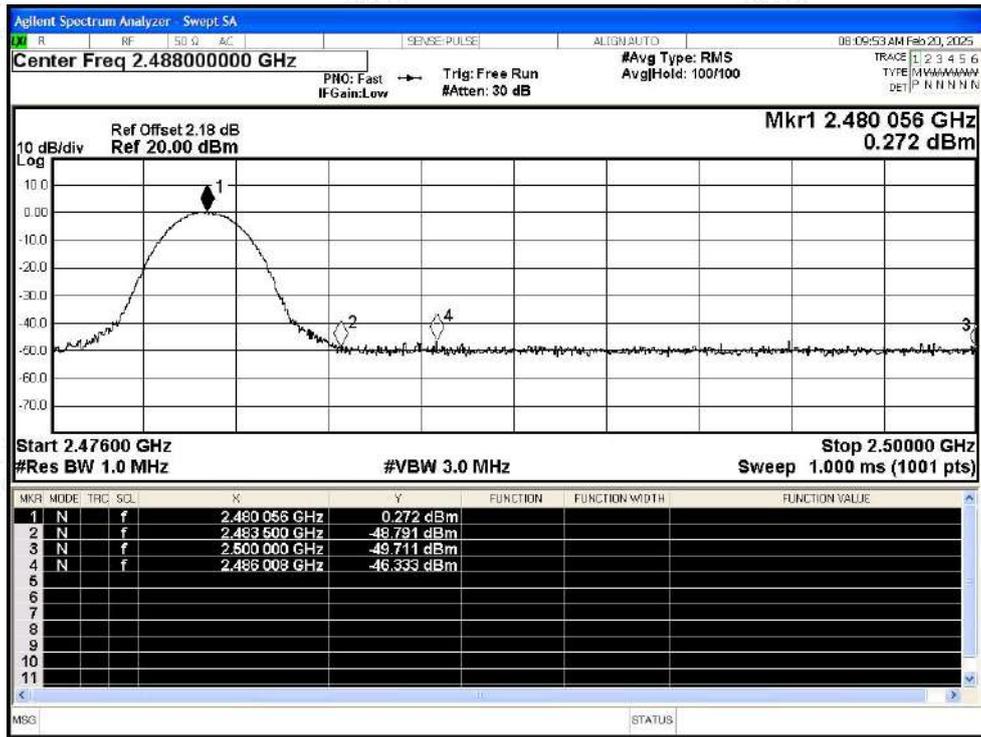


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

