



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Watch Lite2

Test Model: XPAW011

Environmental Conditions

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



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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	0.84	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.922	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.849	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.273	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.262	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass

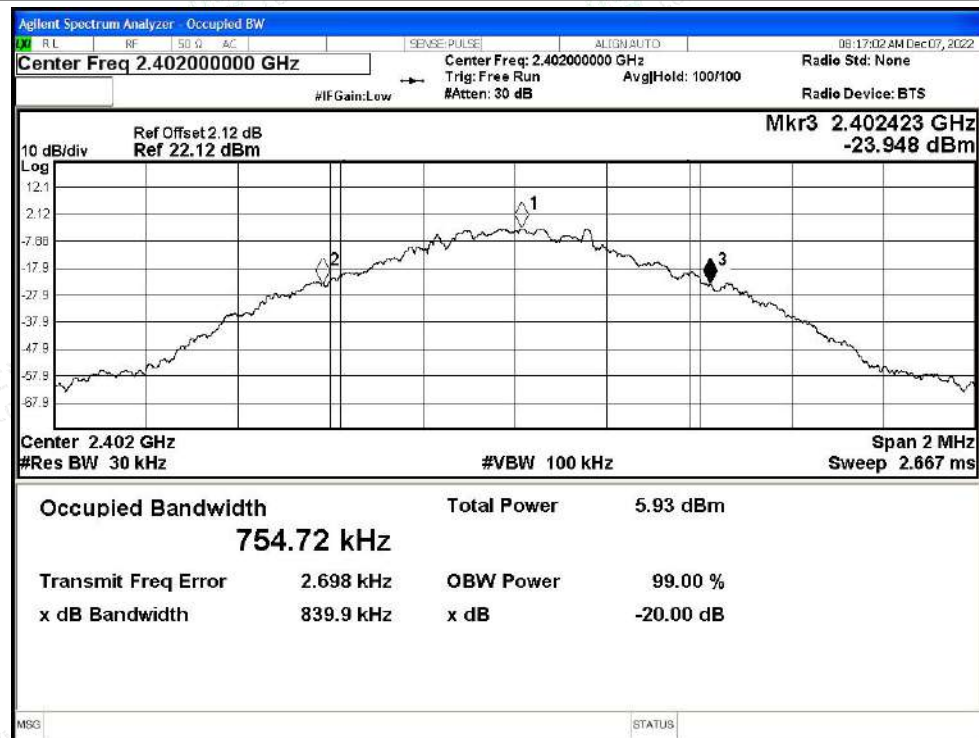


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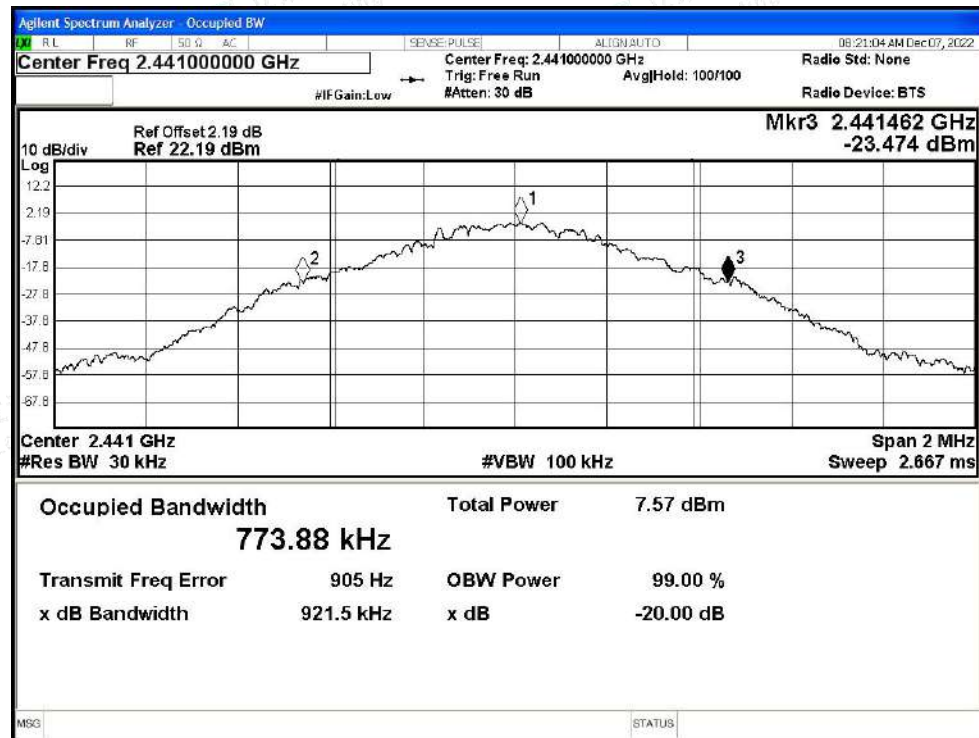


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

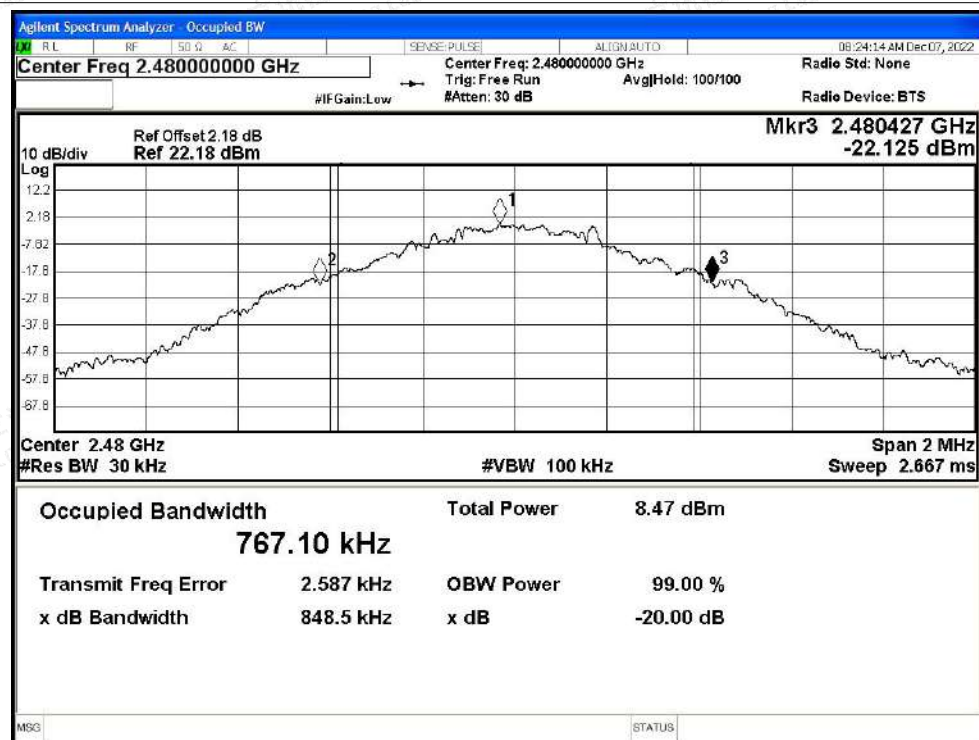


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

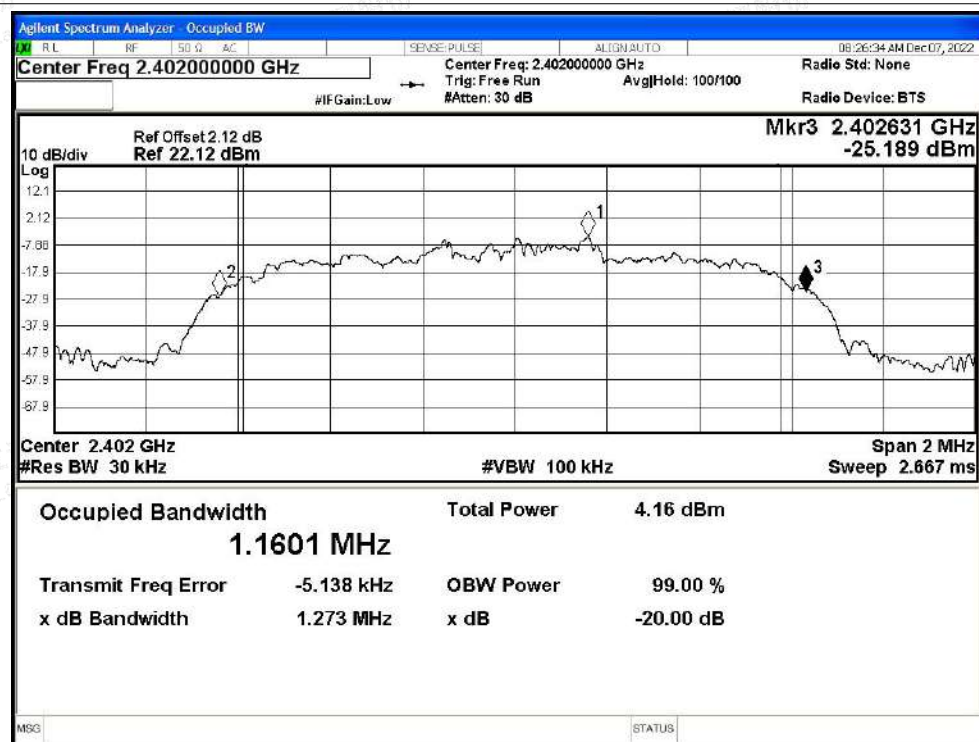




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

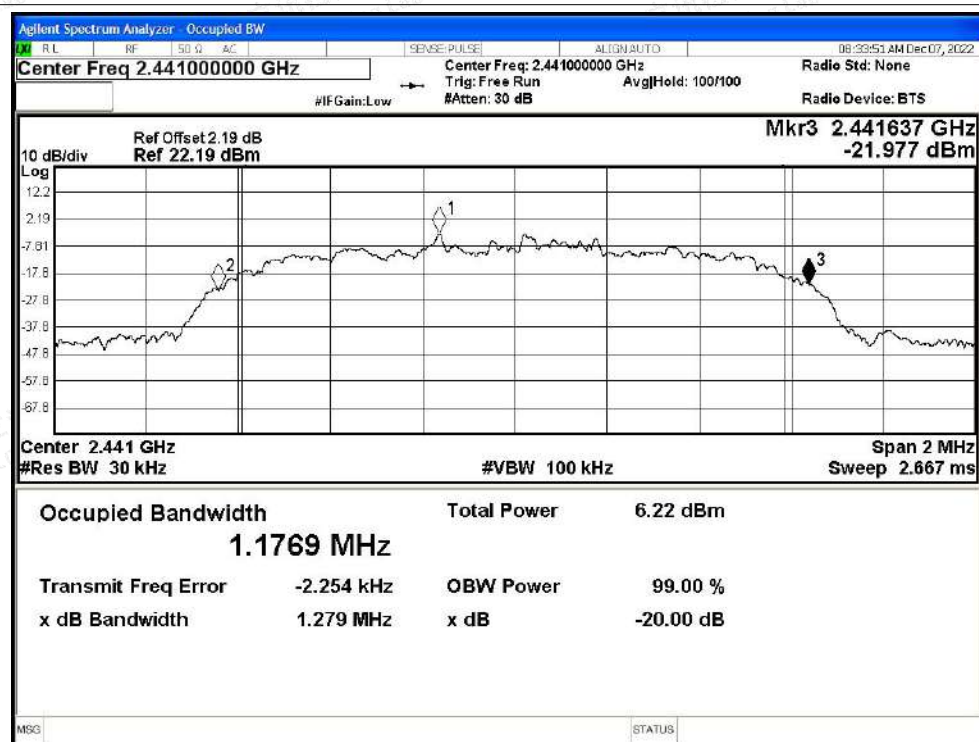


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

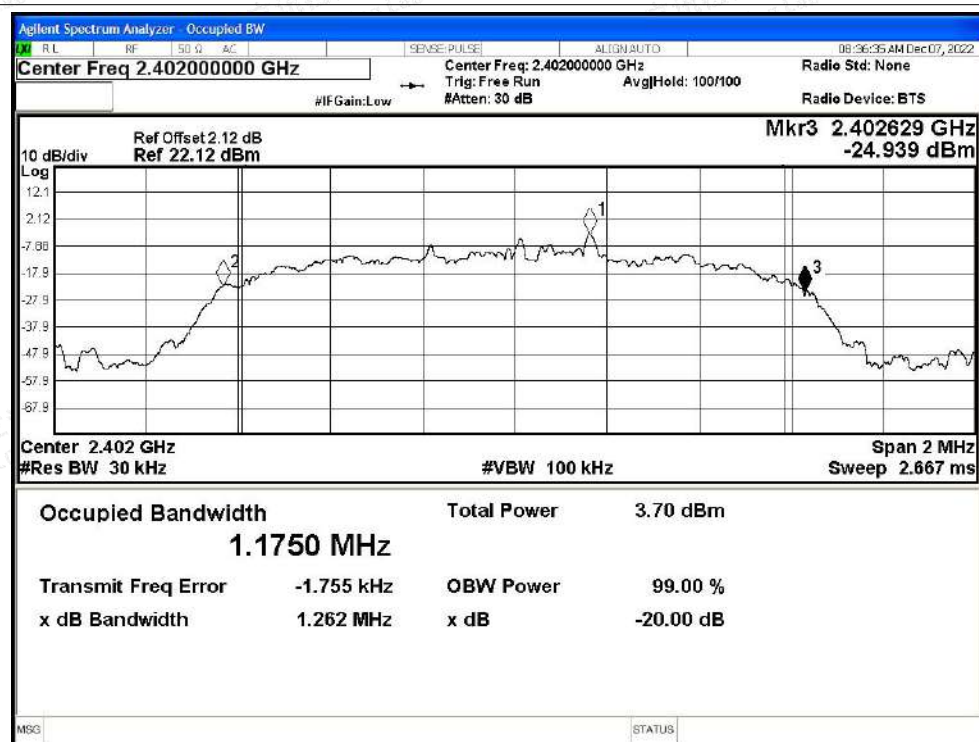


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

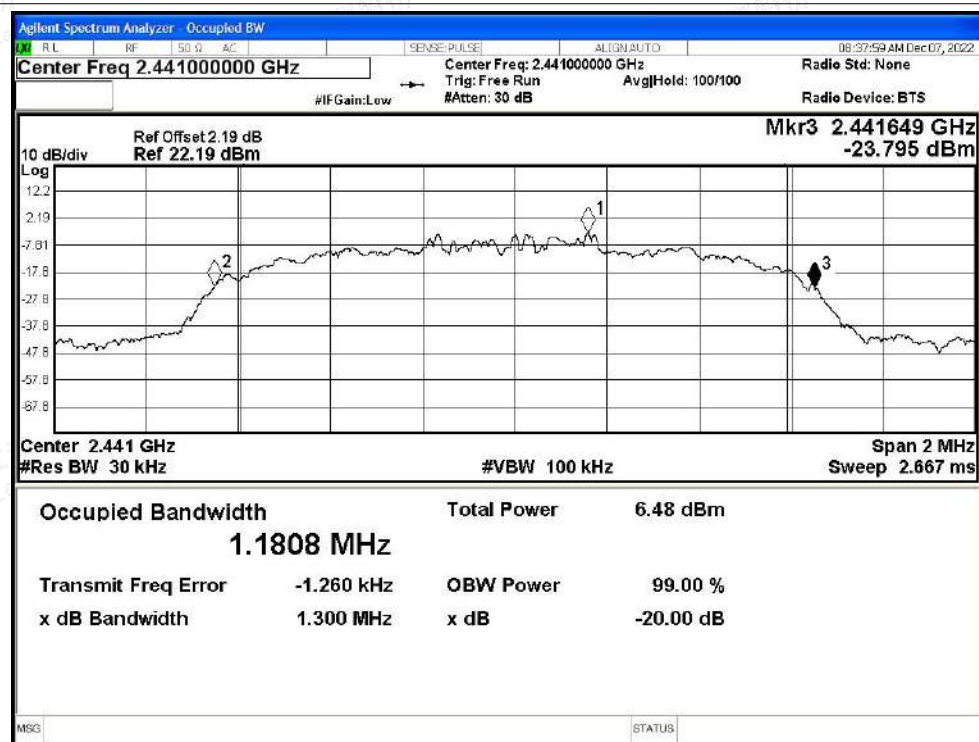


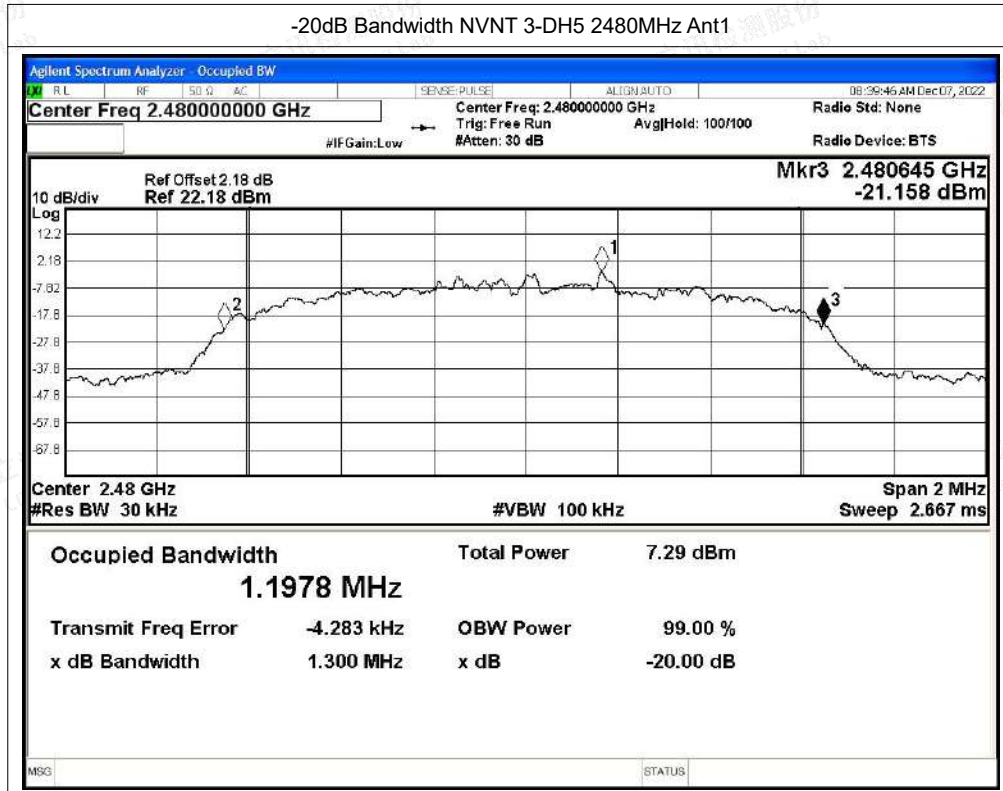


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.23	21	Pass
NVNT	1-DH5	2441	Ant1	1.74	21	Pass
NVNT	1-DH5	2480	Ant1	2.54	21	Pass
NVNT	2-DH5	2402	Ant1	-0.95	21	Pass
NVNT	2-DH5	2441	Ant1	1.51	21	Pass
NVNT	2-DH5	2480	Ant1	2.63	21	Pass
NVNT	3-DH5	2402	Ant1	-1.02	21	Pass
NVNT	3-DH5	2441	Ant1	1.46	21	Pass
NVNT	3-DH5	2480	Ant1	2.58	21	Pass

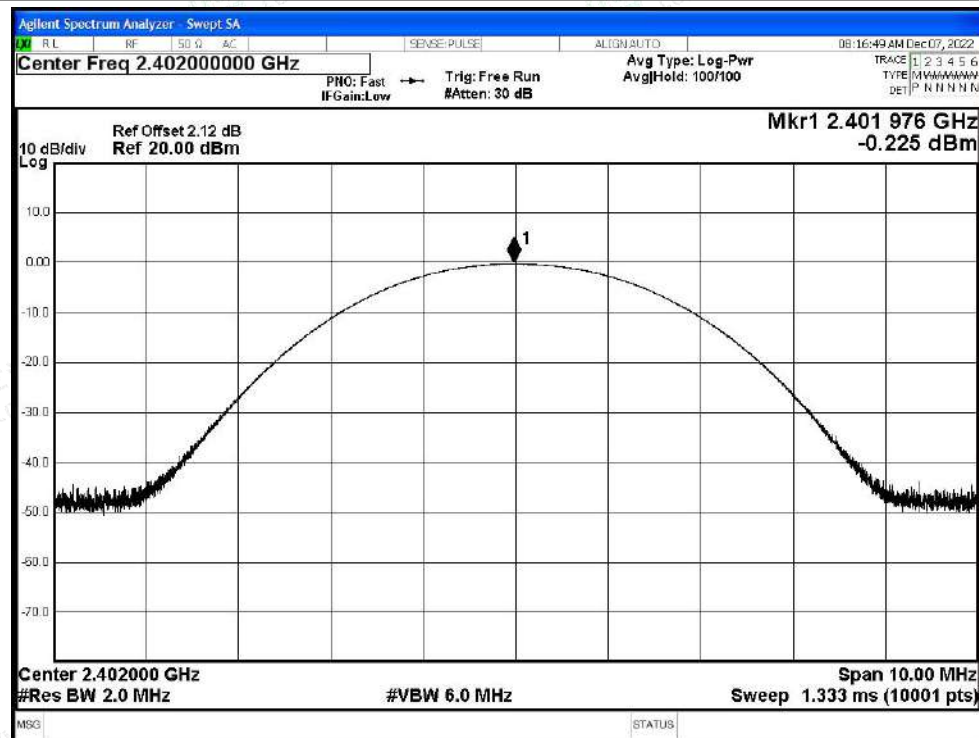


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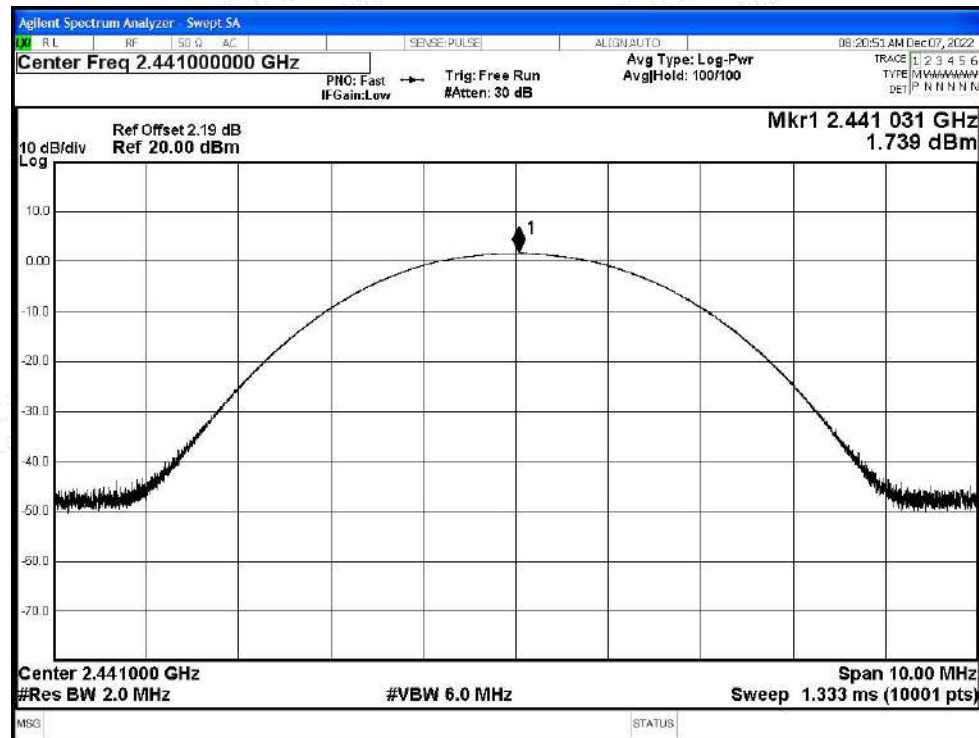


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

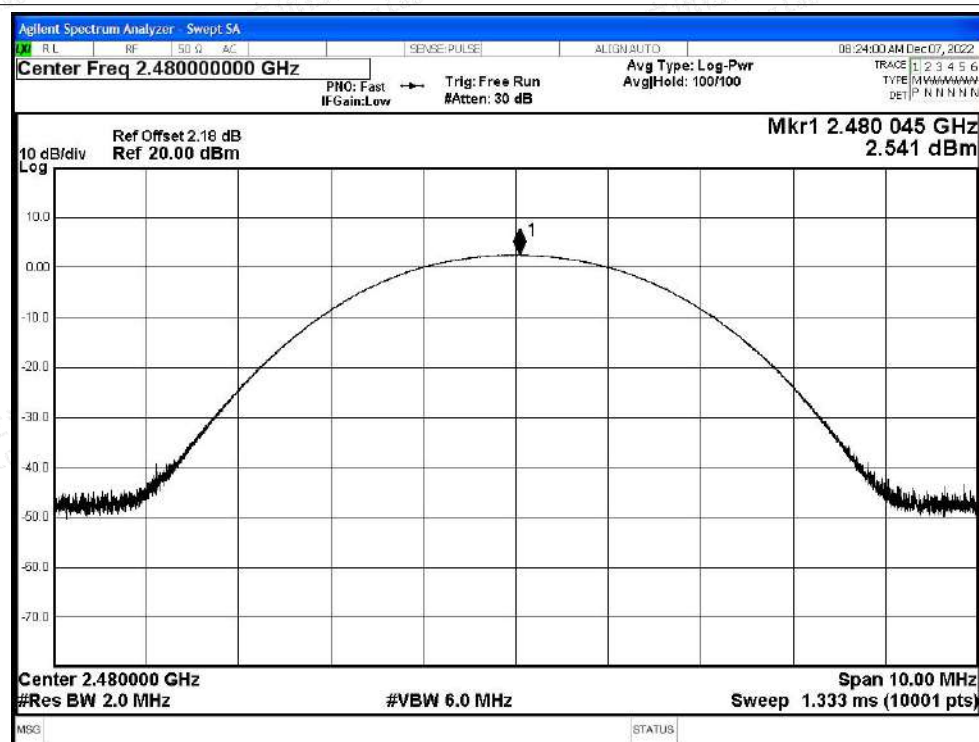


Power NVNT 1-DH5 2441MHz Ant1

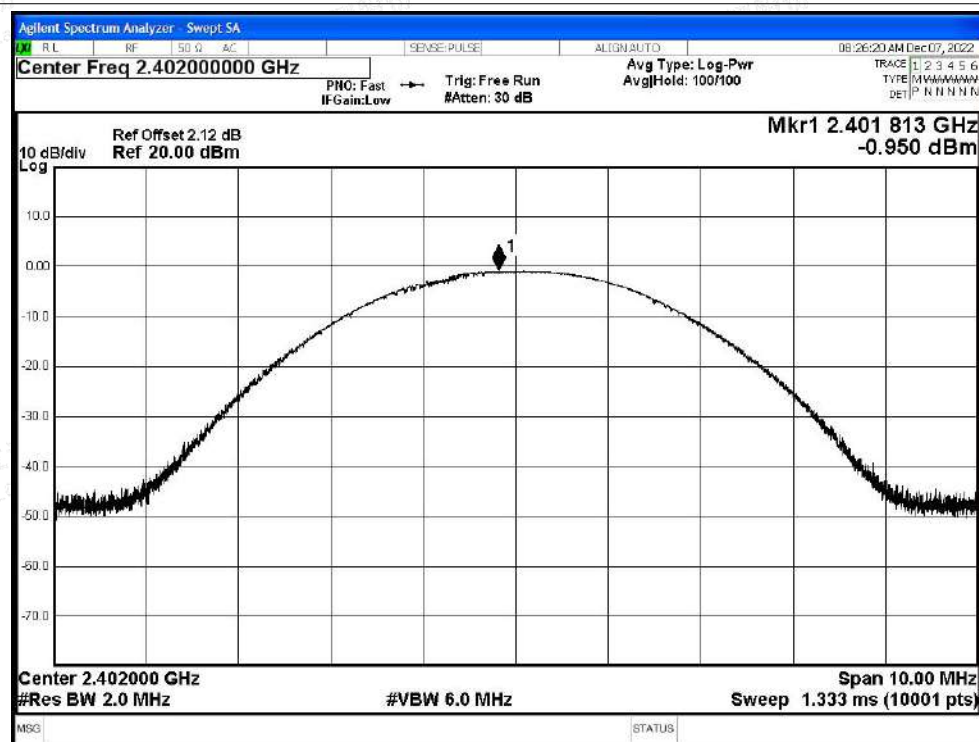




Power NVNT 1-DH5 2480MHz Ant1

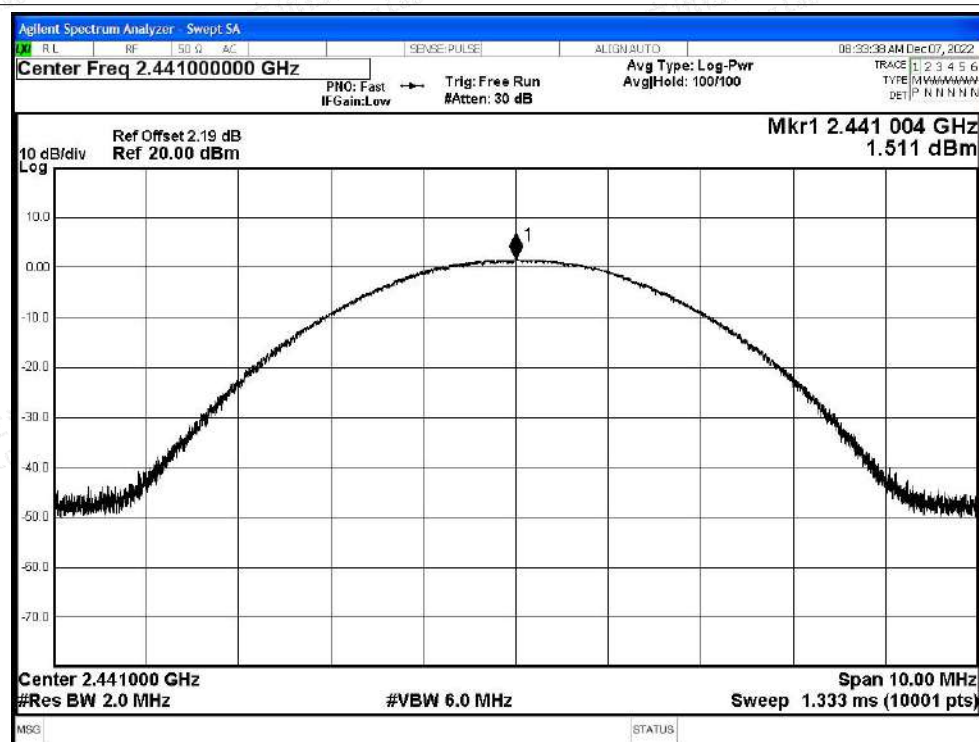


Power NVNT 2-DH5 2402MHz Ant1

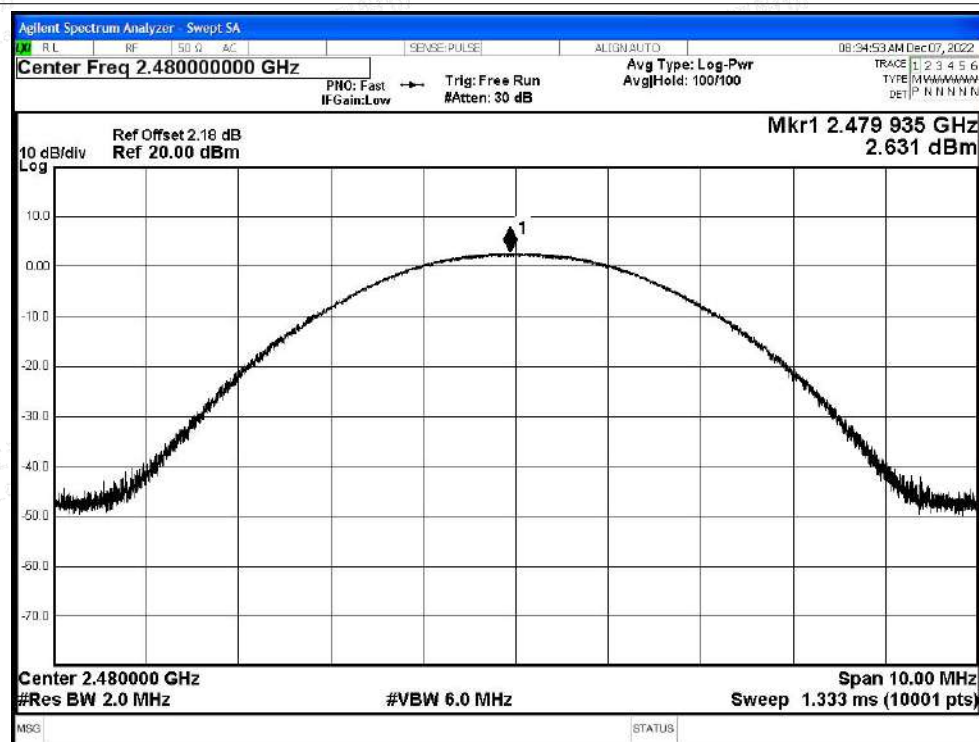




Power NVNT 2-DH5 2441MHz Ant1

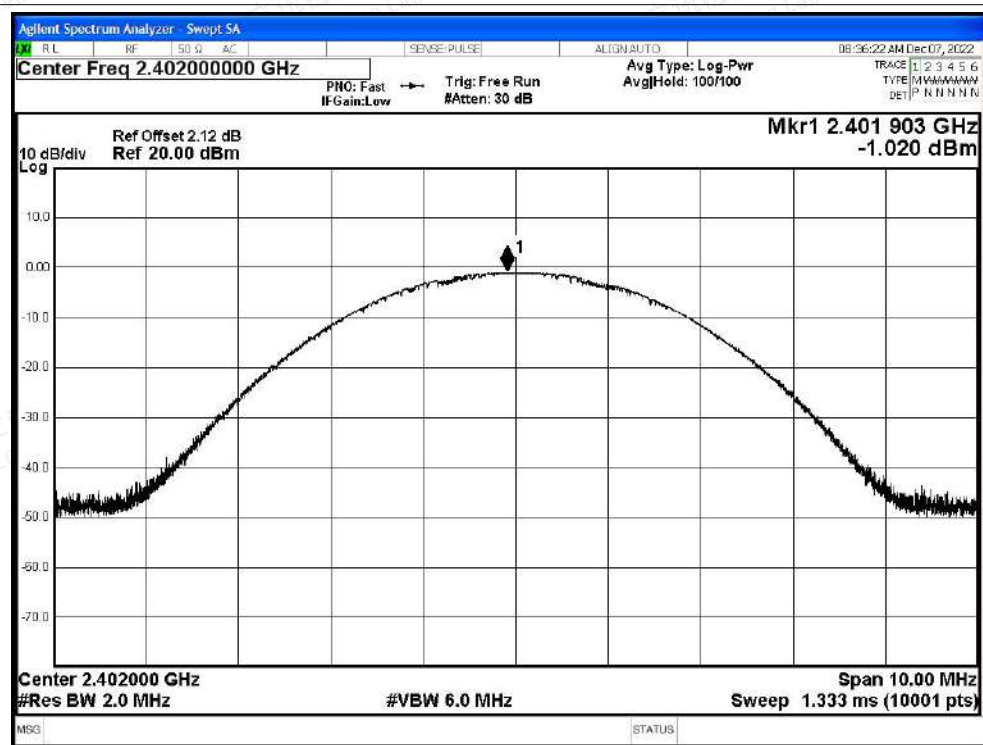


Power NVNT 2-DH5 2480MHz Ant1

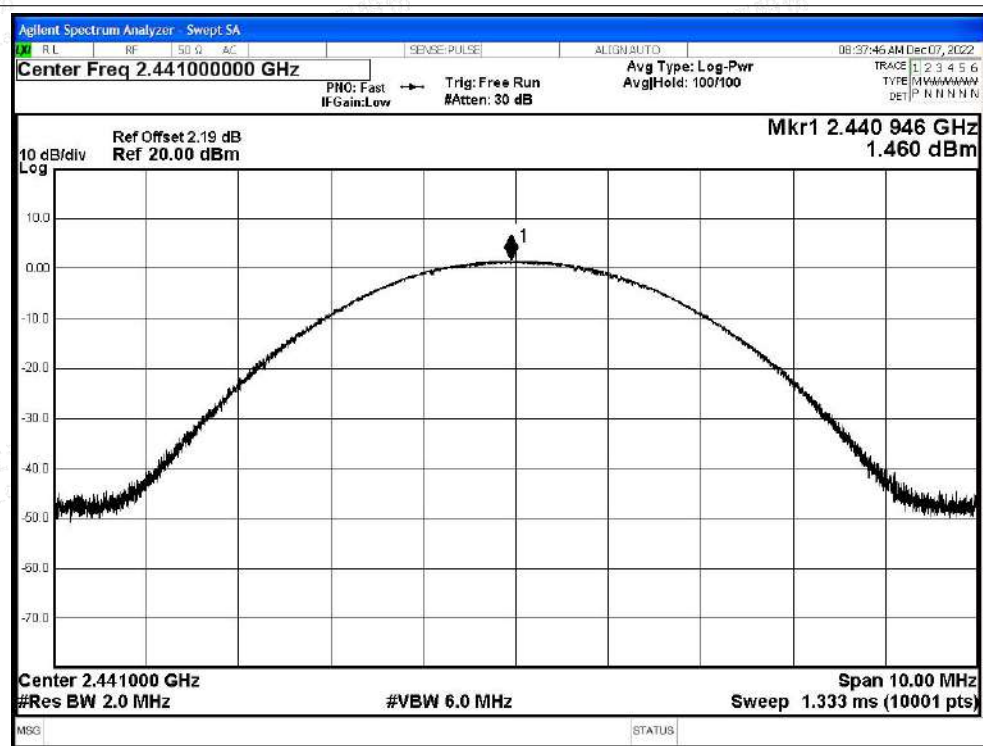


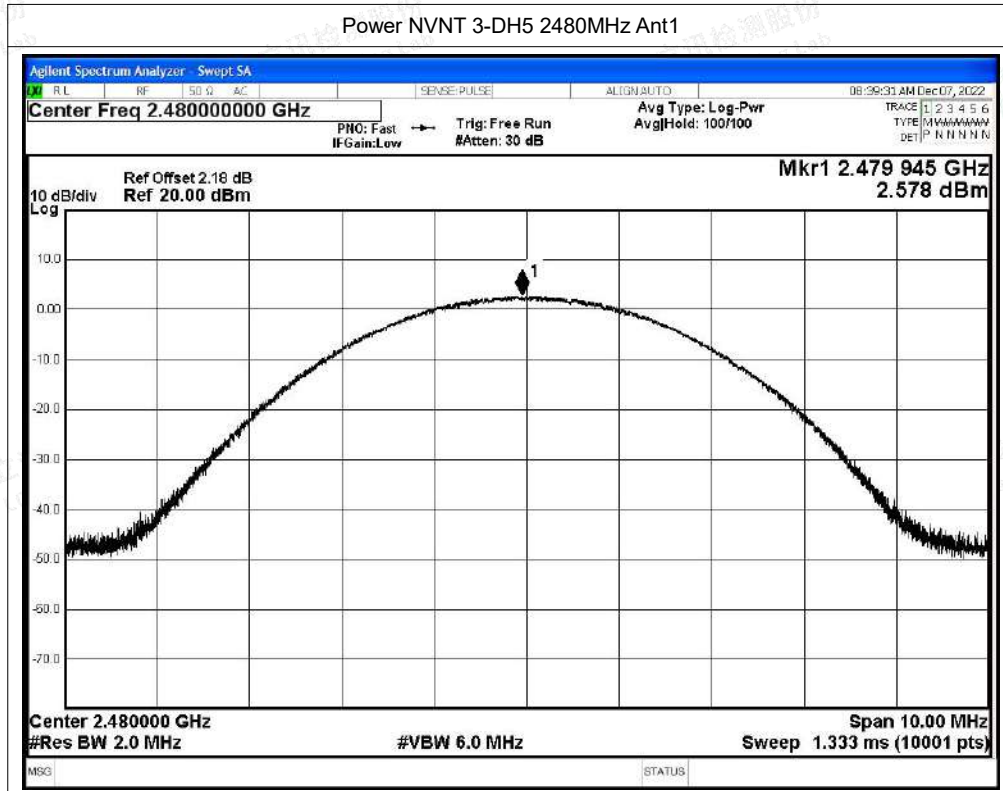


Power NVNT 3-DH5 2402MHz Ant1



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	2401.97	2403.012	1.042	0.56	Pass
NVNT	2-DH5	Ant1	2402.16	2403.012	0.852	0.849	Pass
NVNT	3-DH5	Ant1	2402.026	2403.164	1.138	0.841	Pass

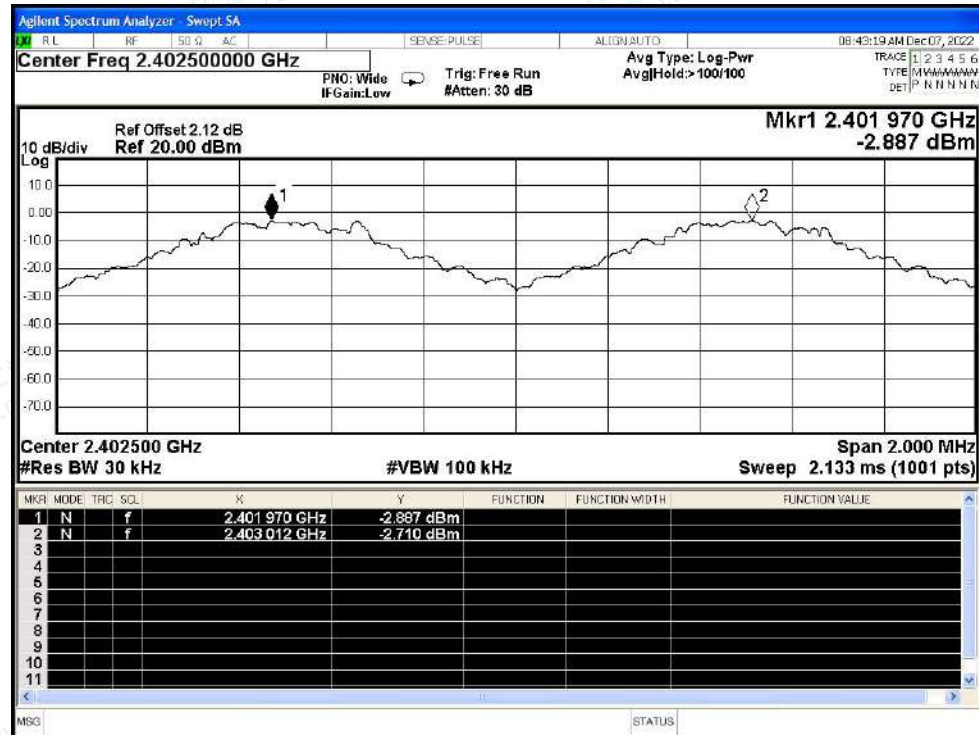


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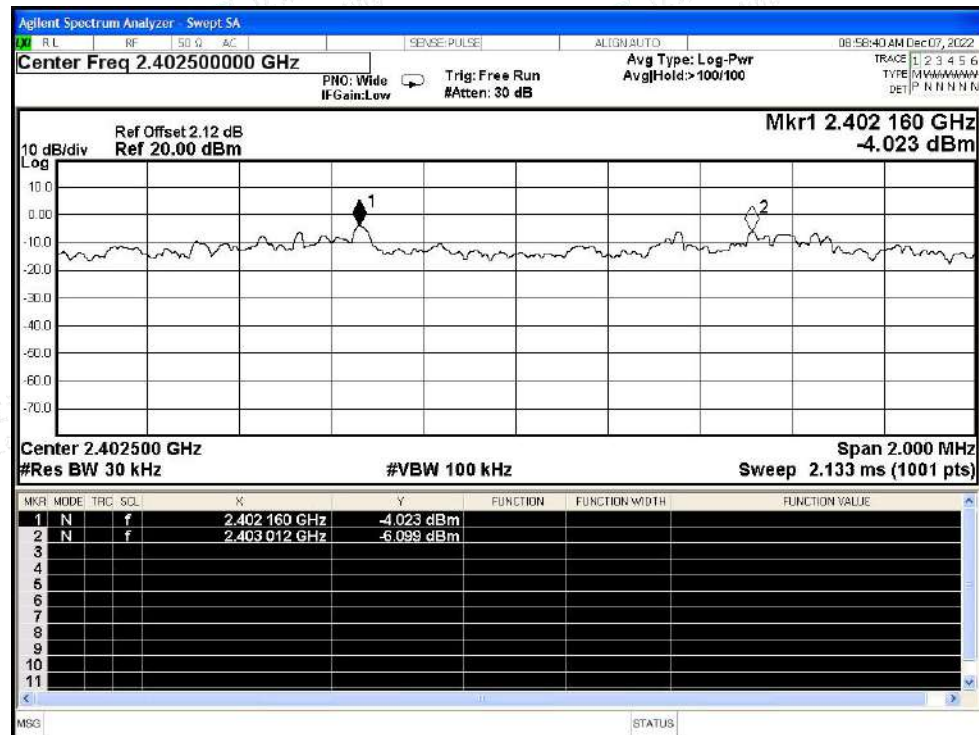


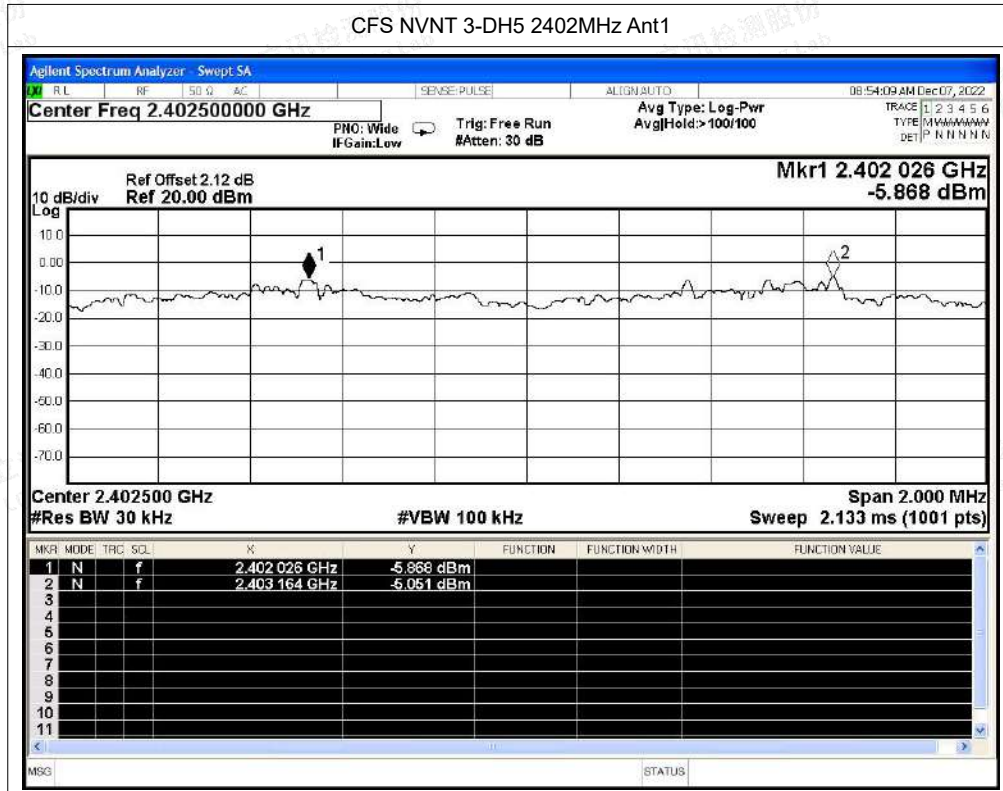
Test Graphs

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	293.964	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	319.791	111	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	311.796	108	31600	400	Pass

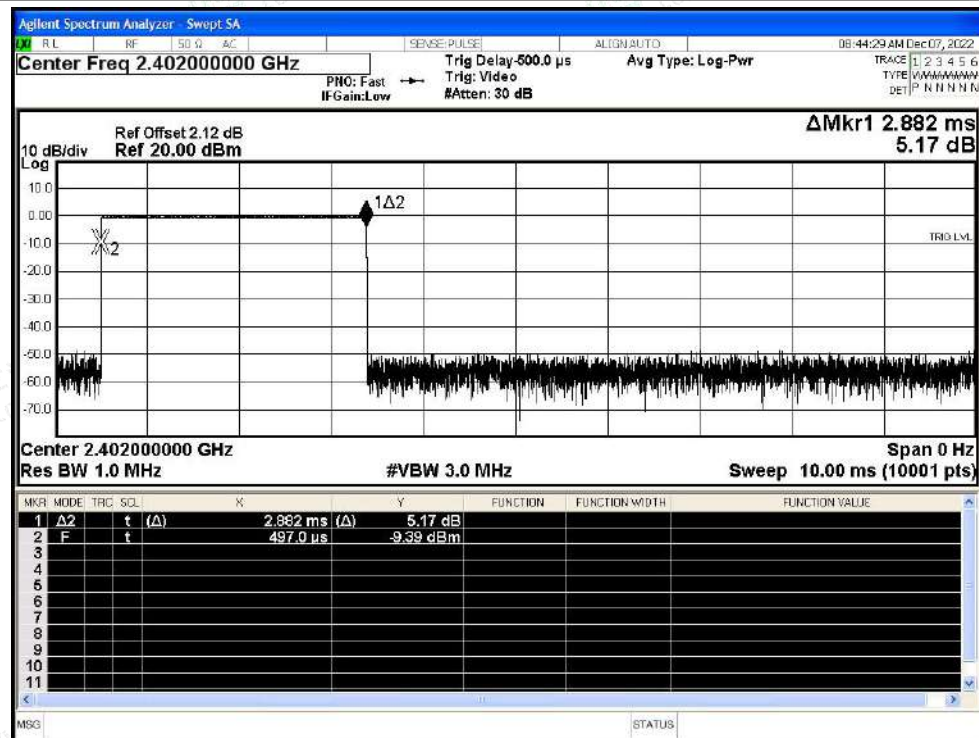


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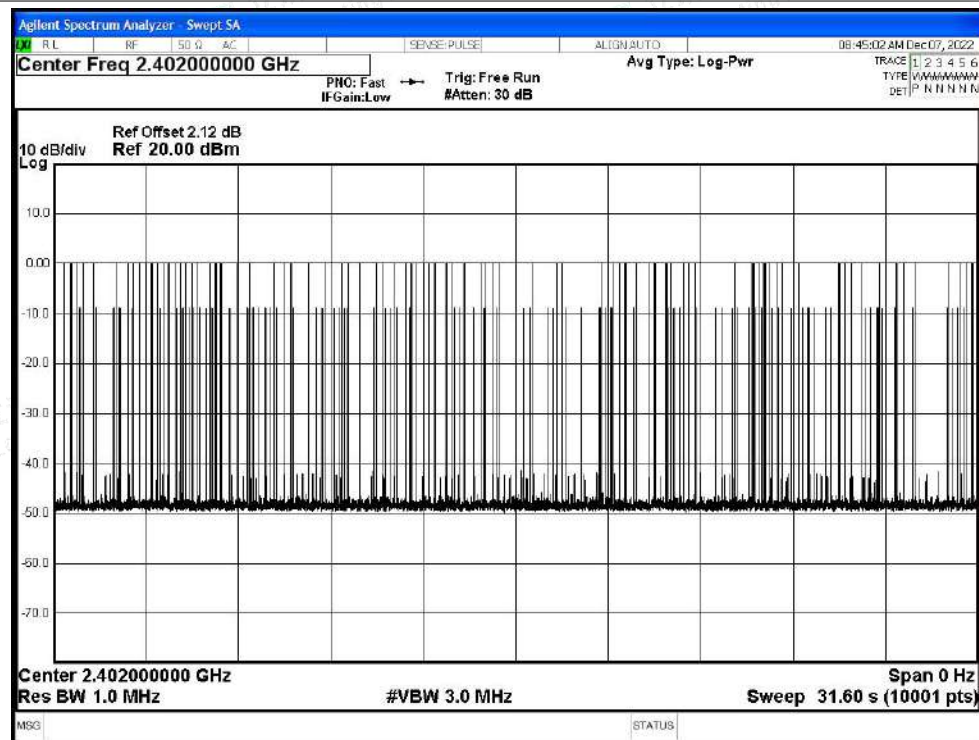


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

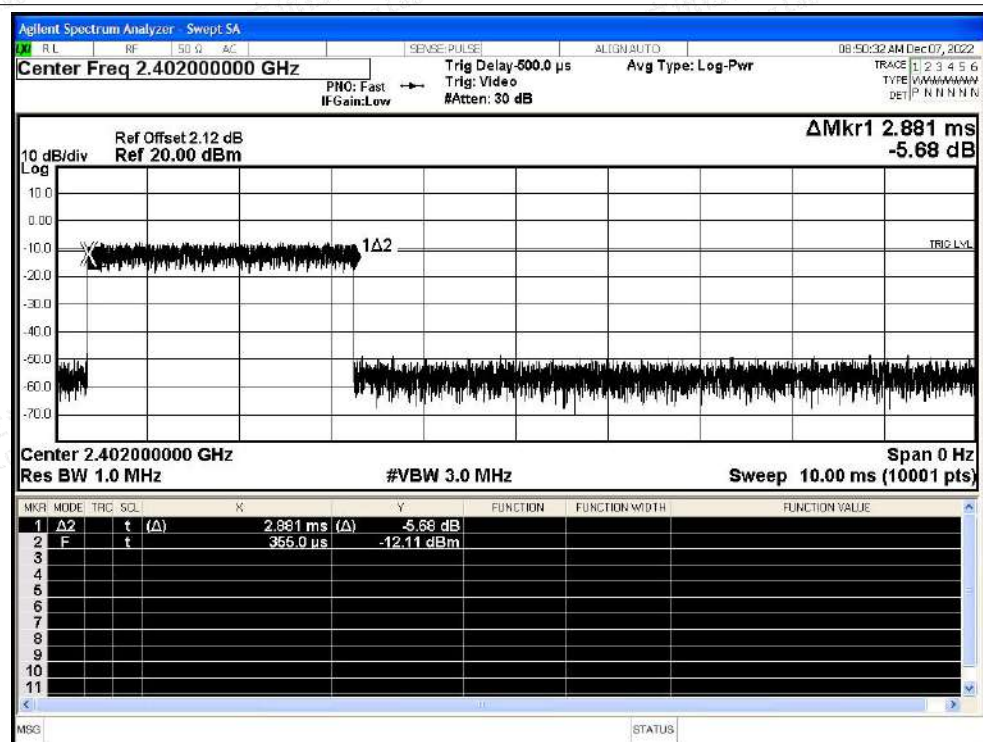


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

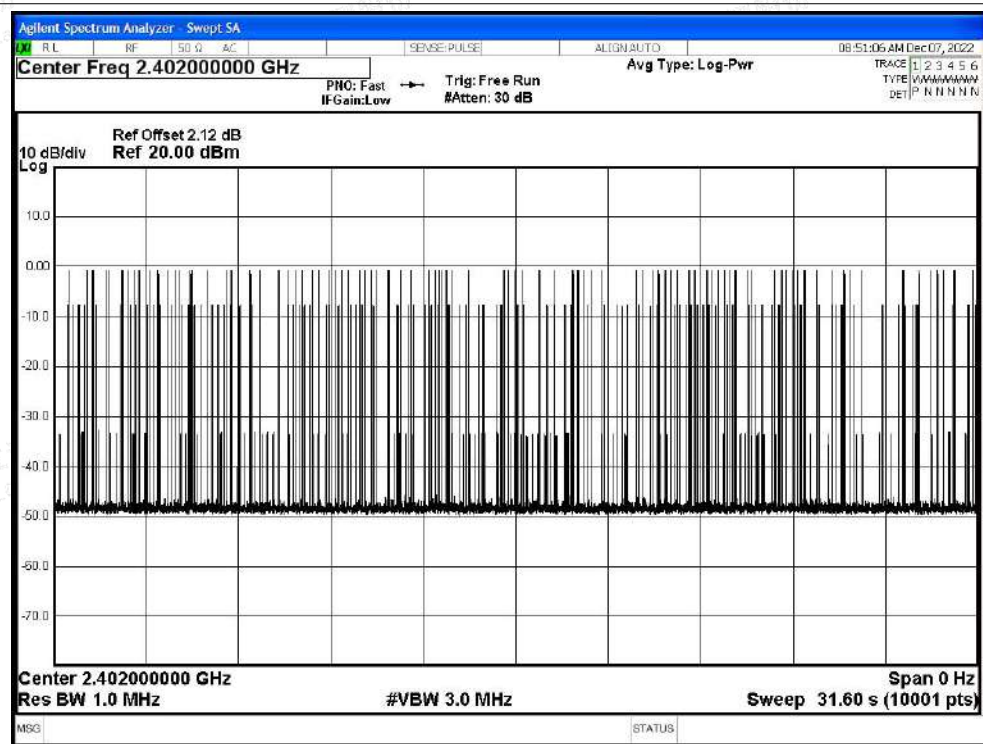




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

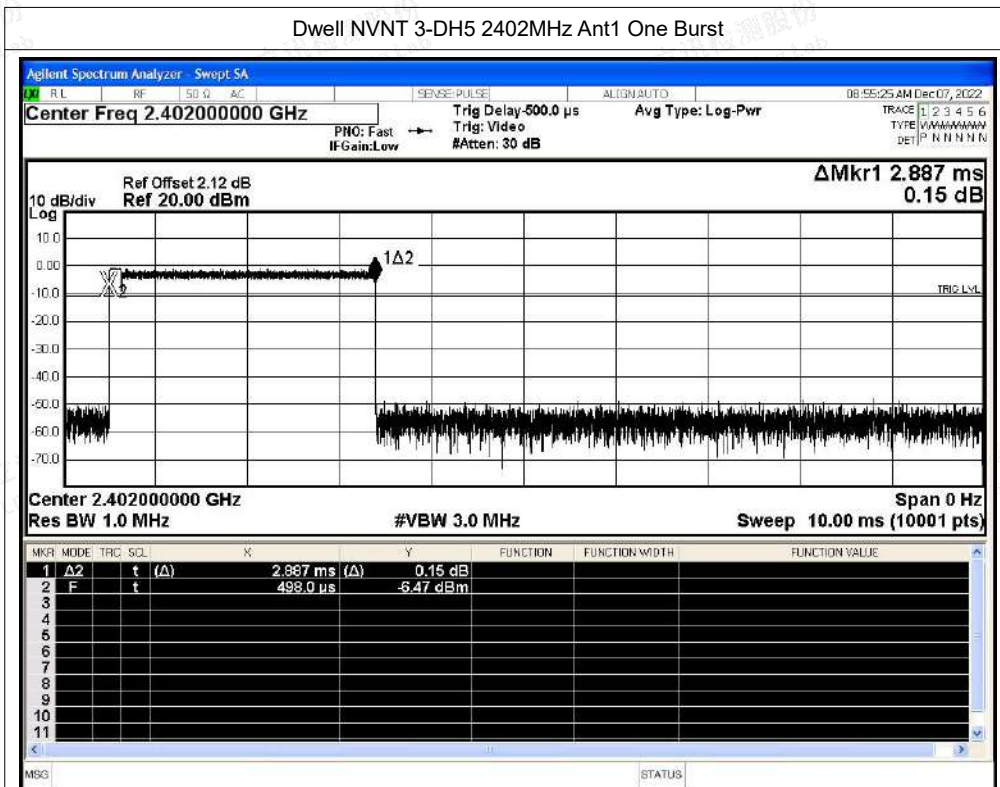


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

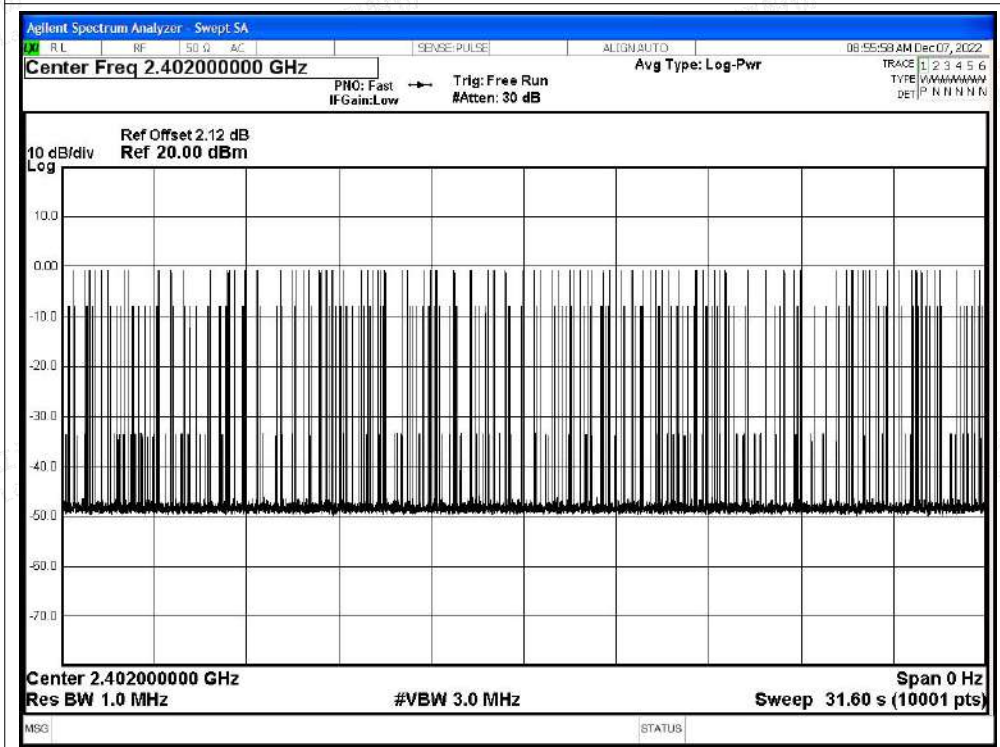




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

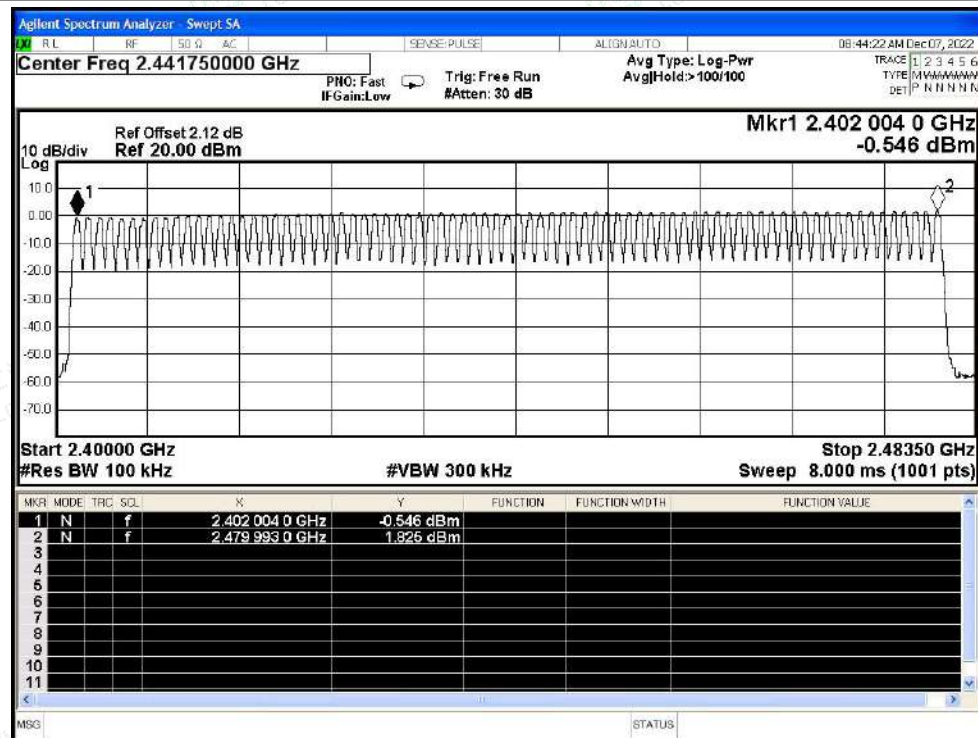


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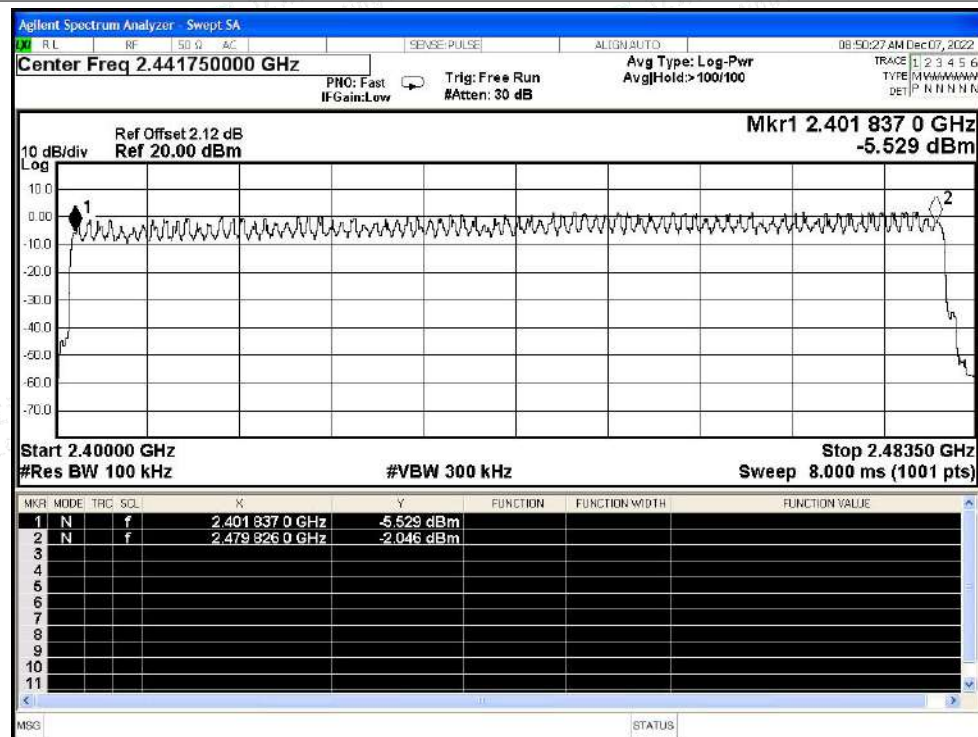


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

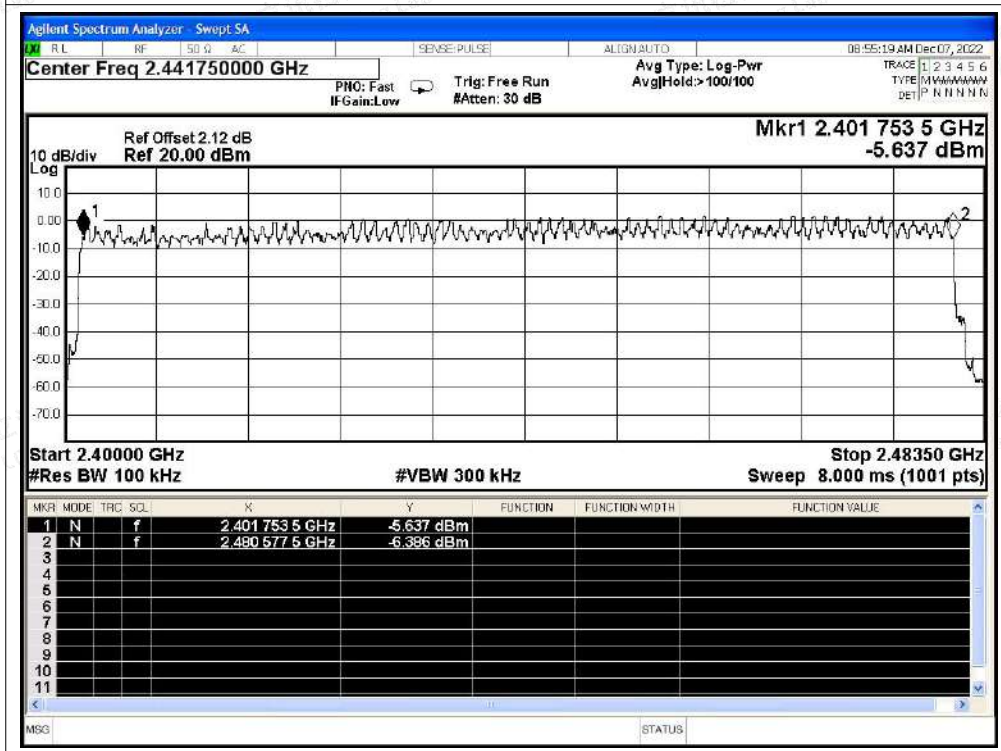


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.89	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.06	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.82	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.74	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.12	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.8	-20	Pass

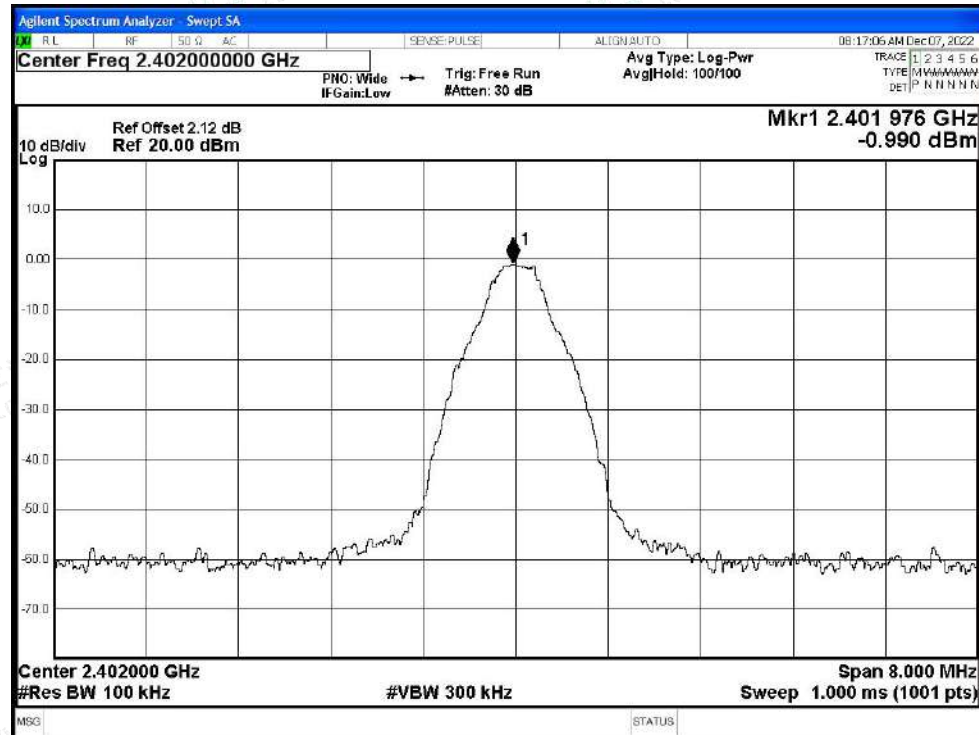


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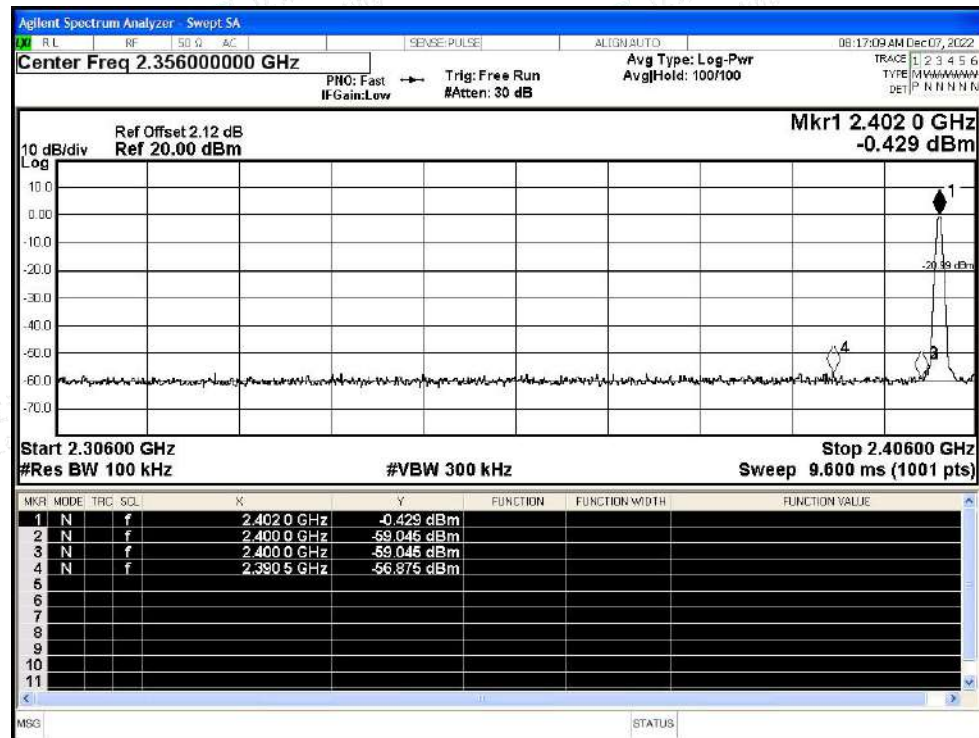


Test Graphs

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

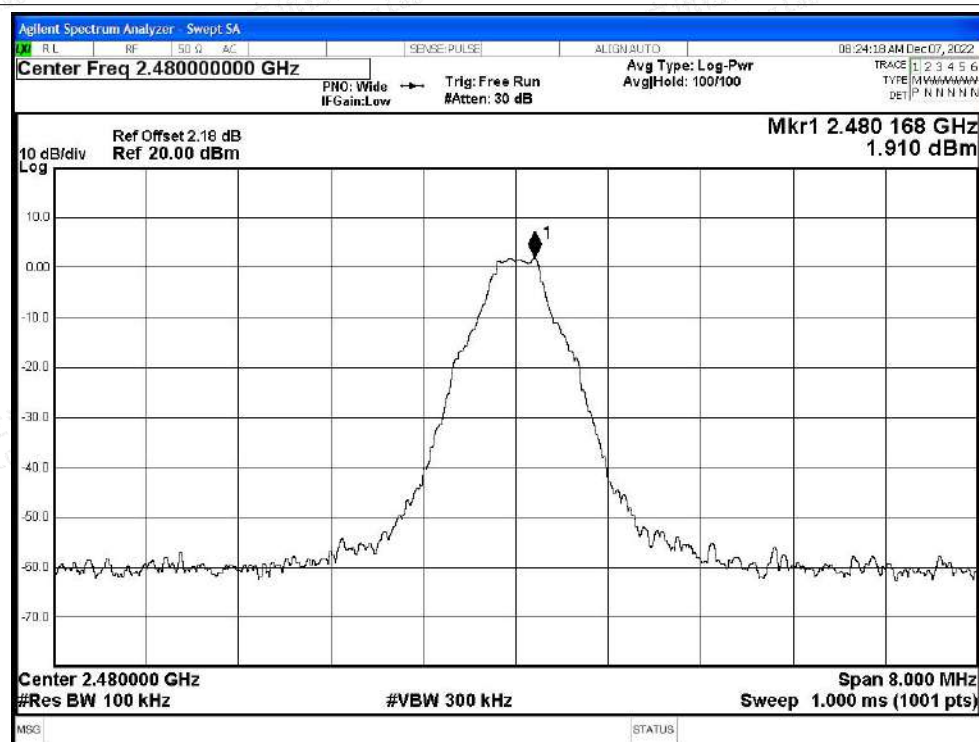


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

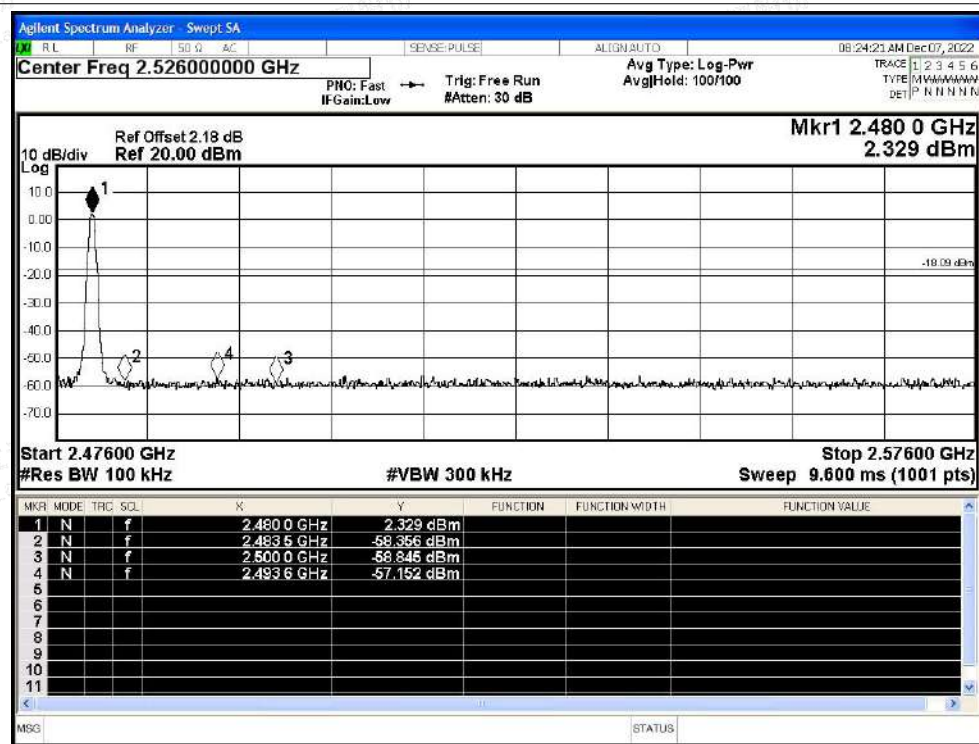




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

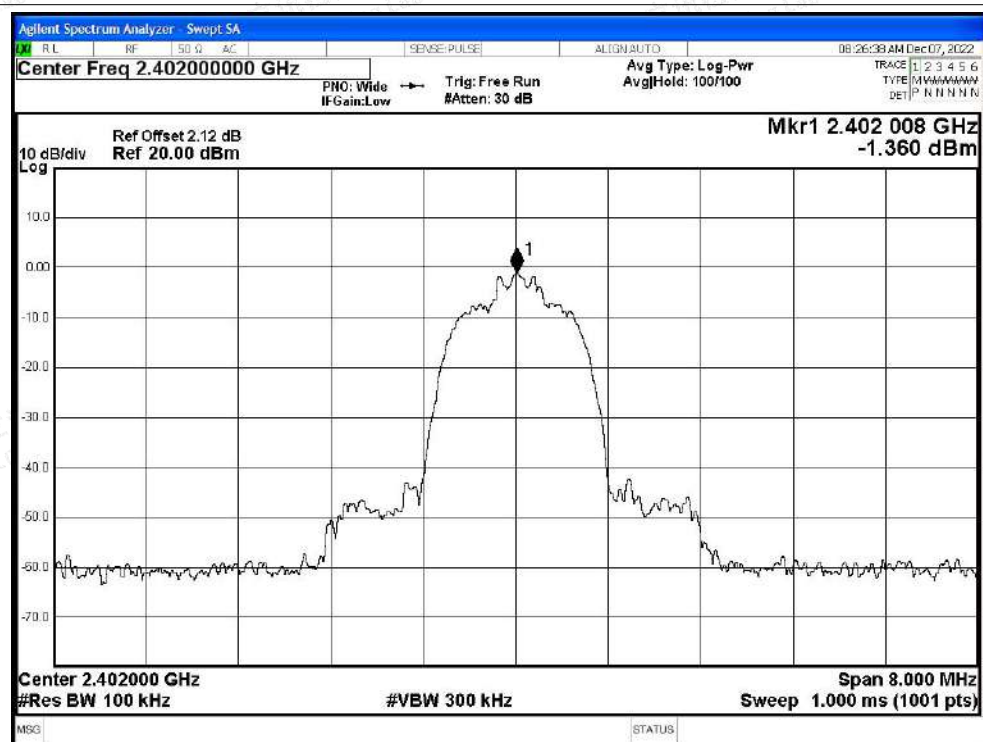


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

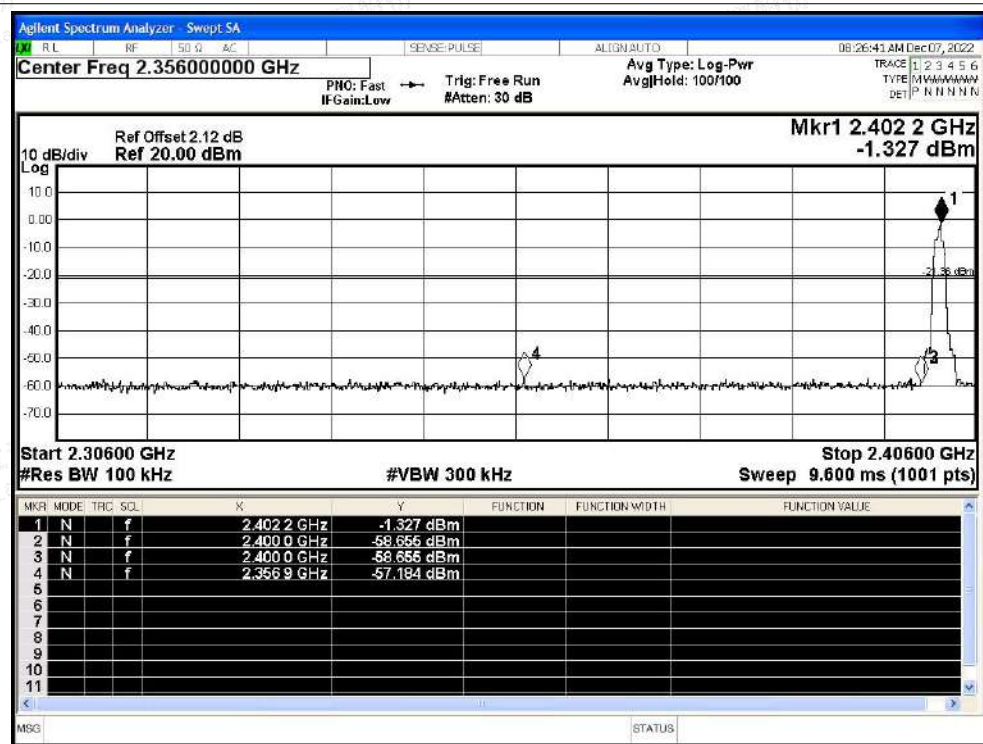




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

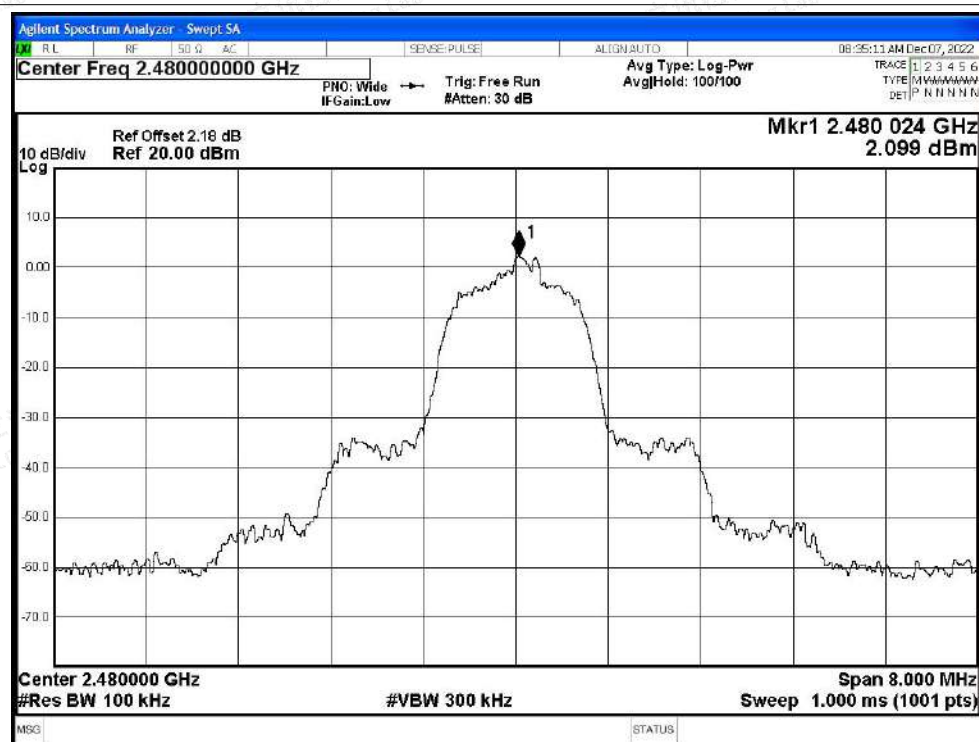


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

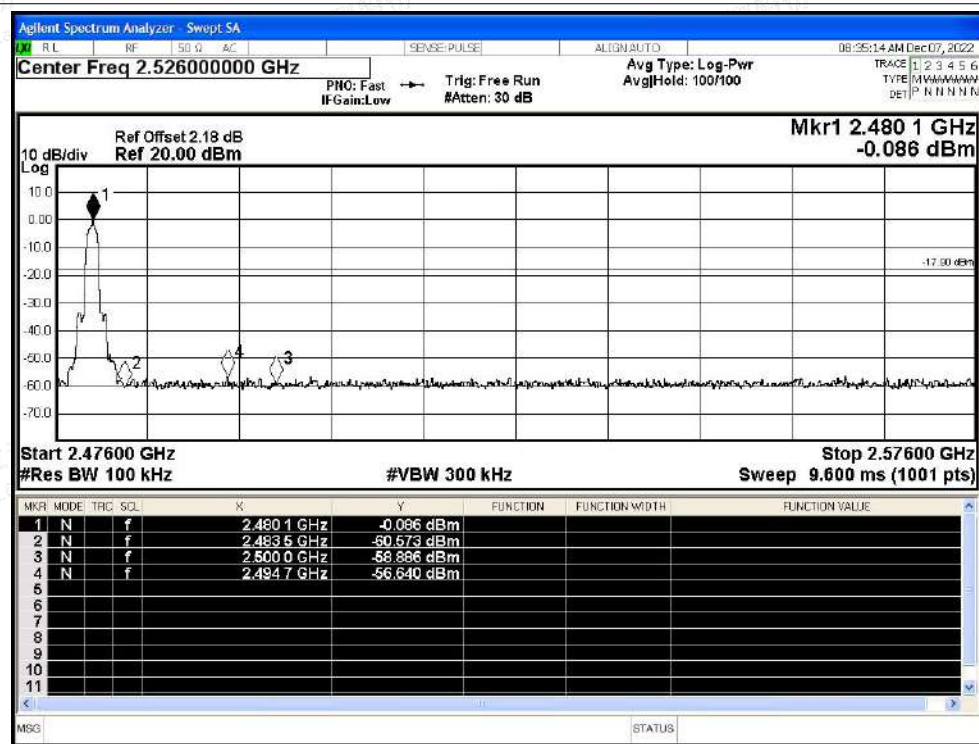




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

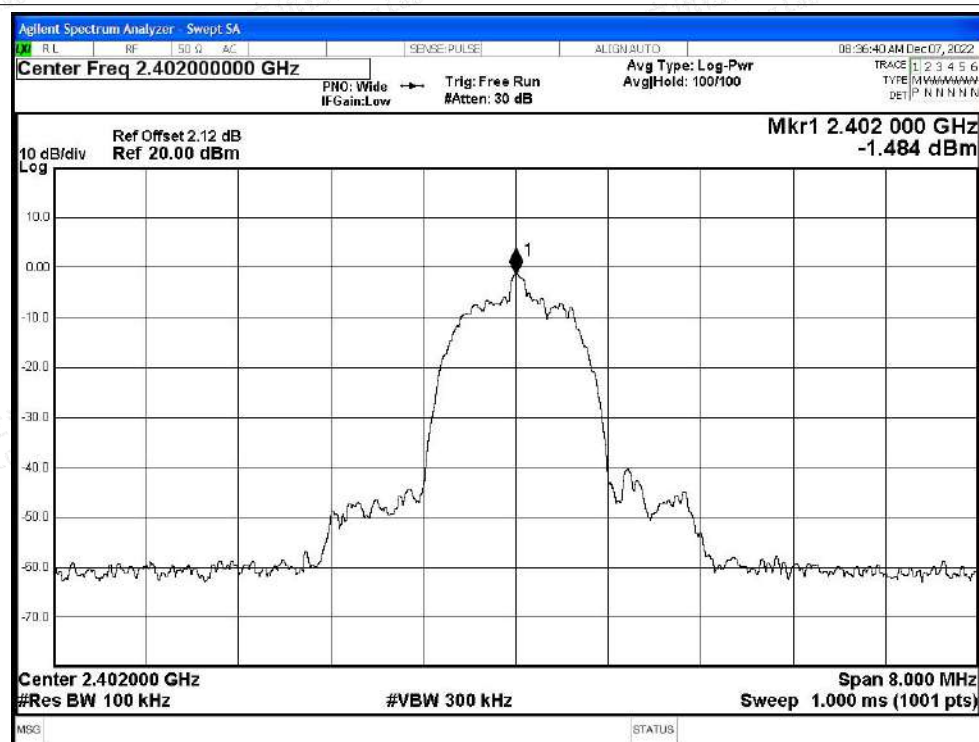


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

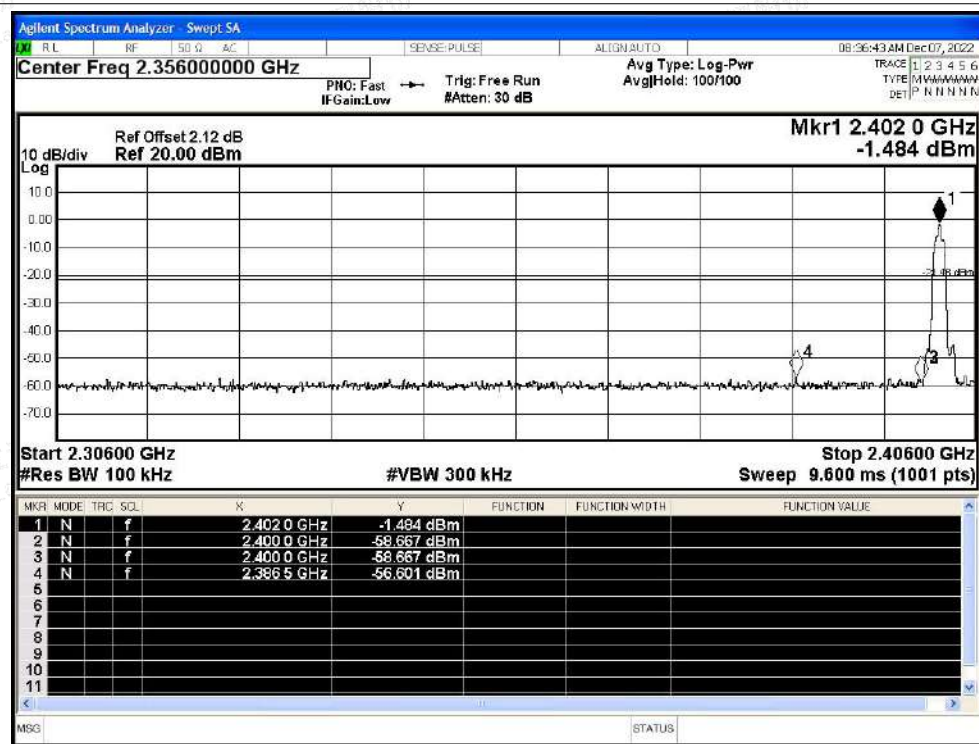




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

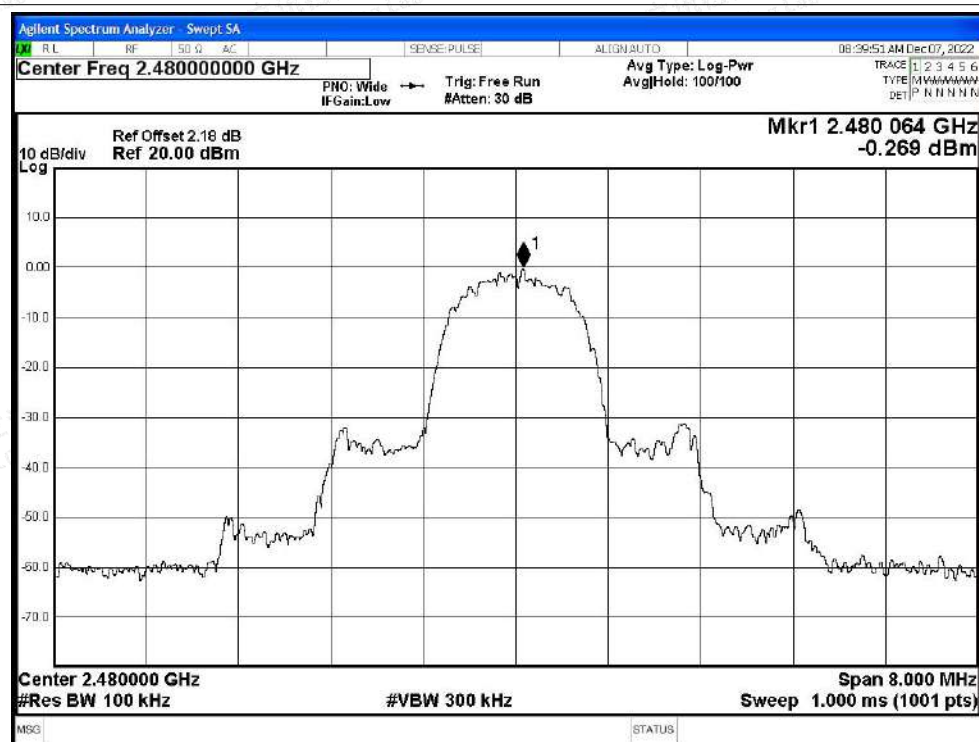


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

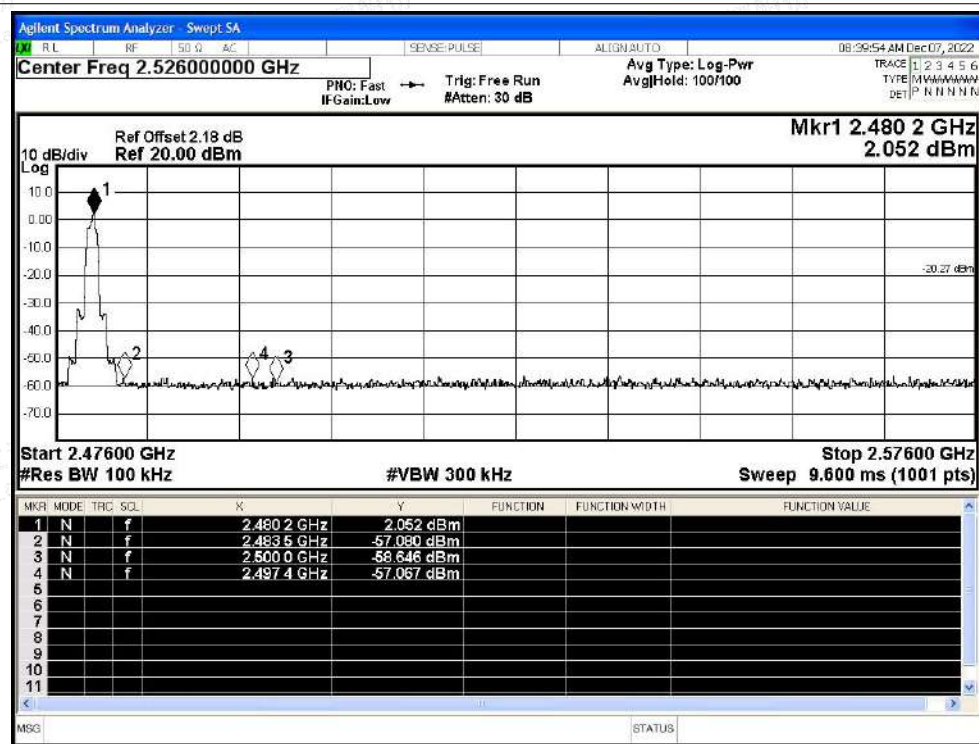




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.56	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.73	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.33	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.52	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.03	-20	Pass

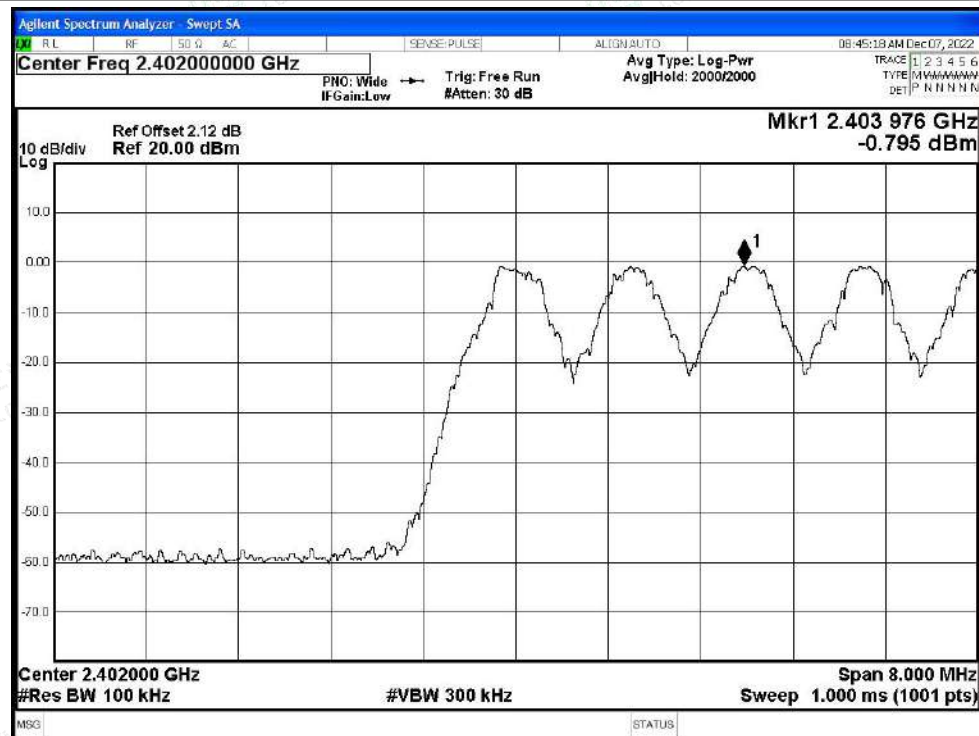


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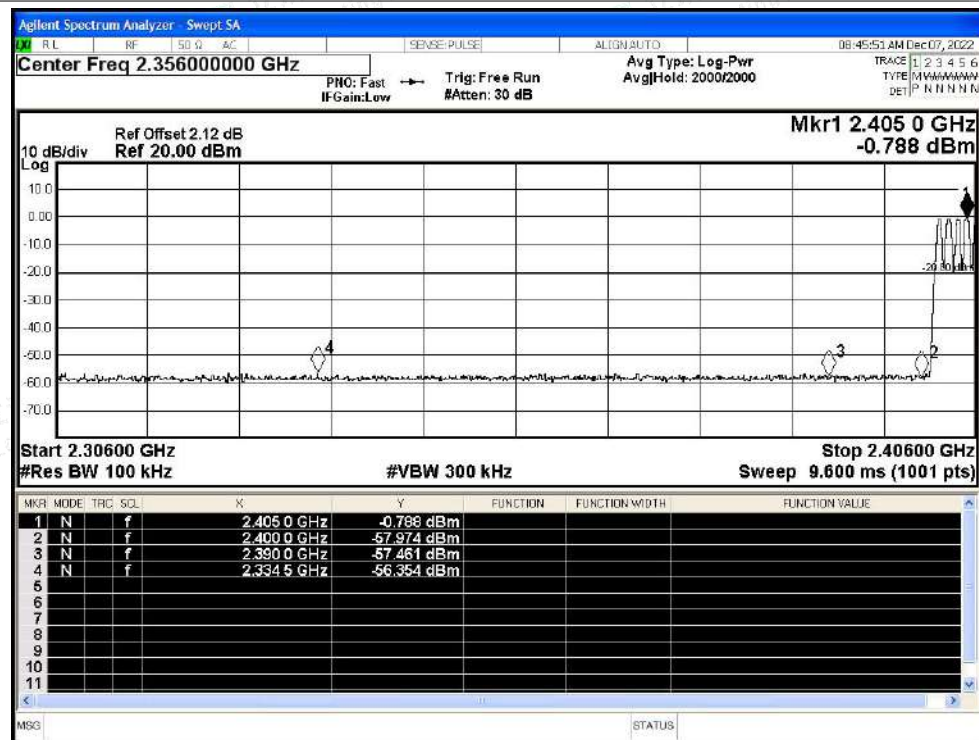


Test Graphs

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

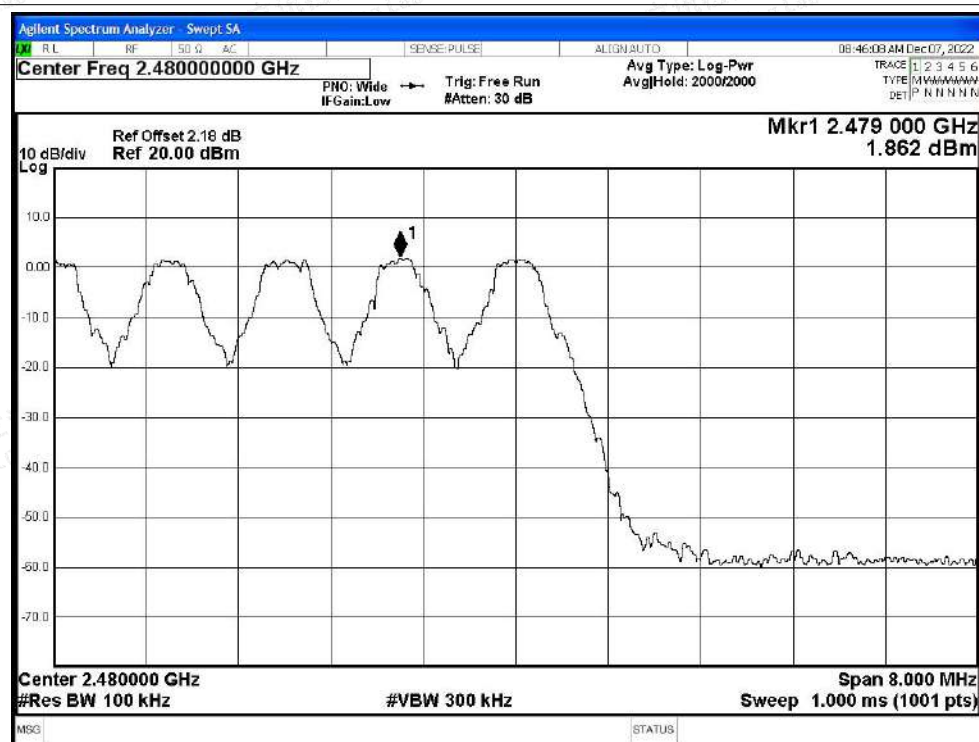


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

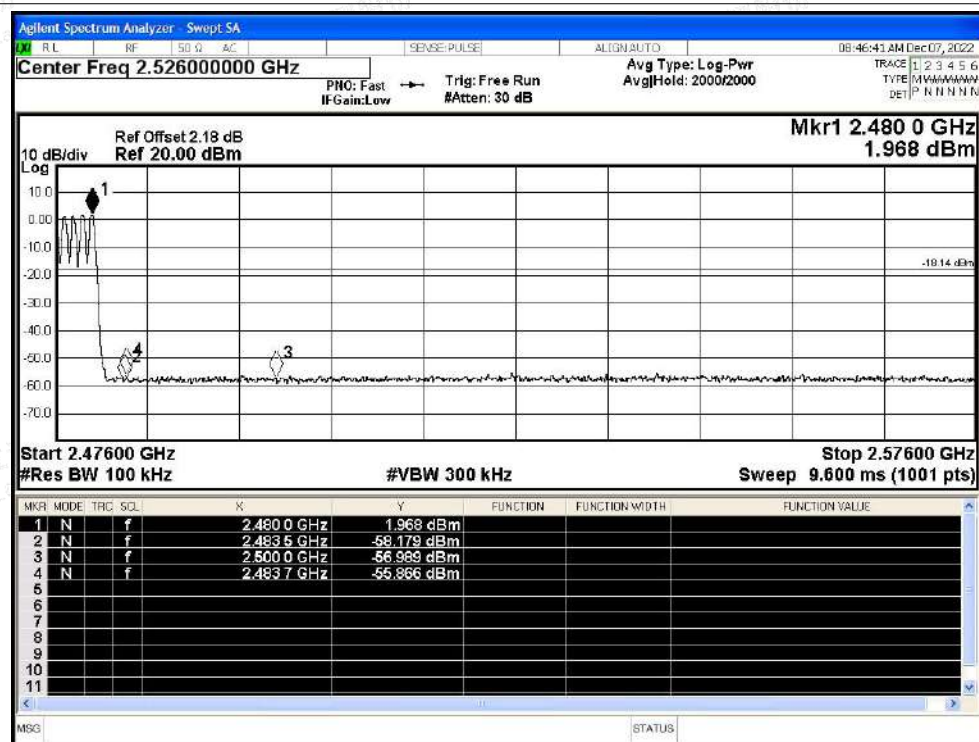




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

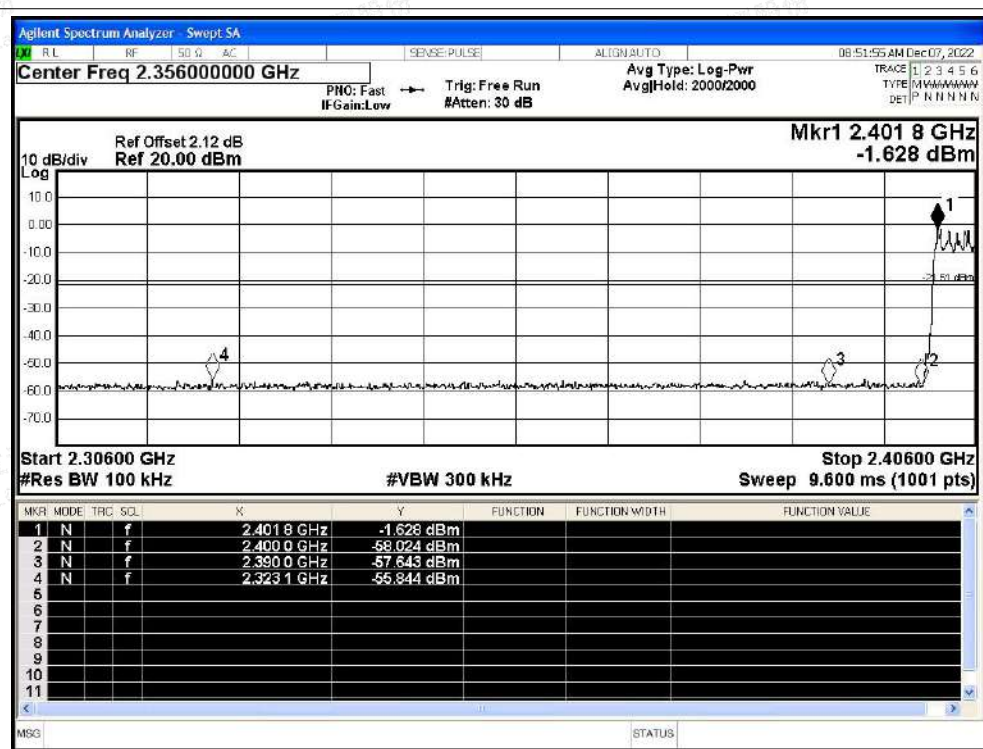




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

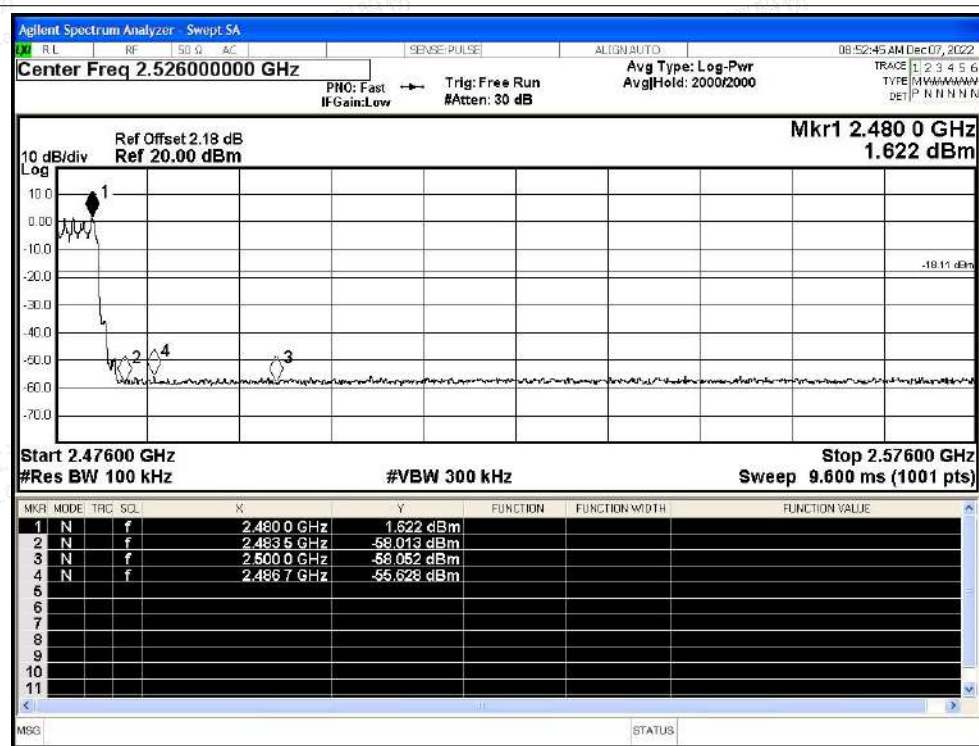




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

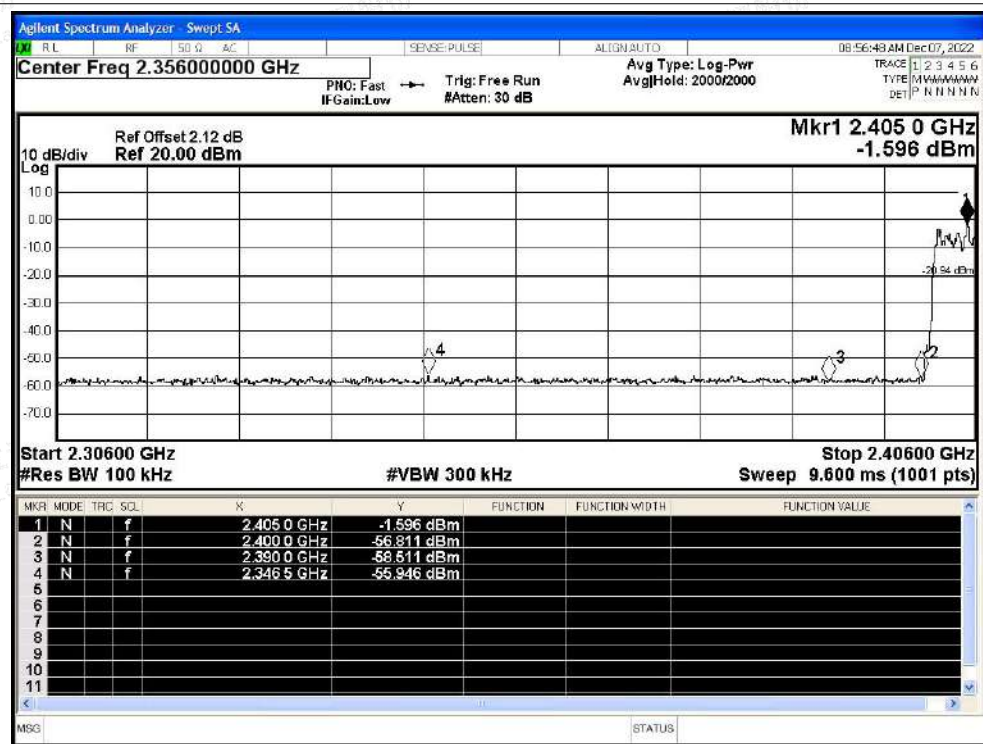




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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

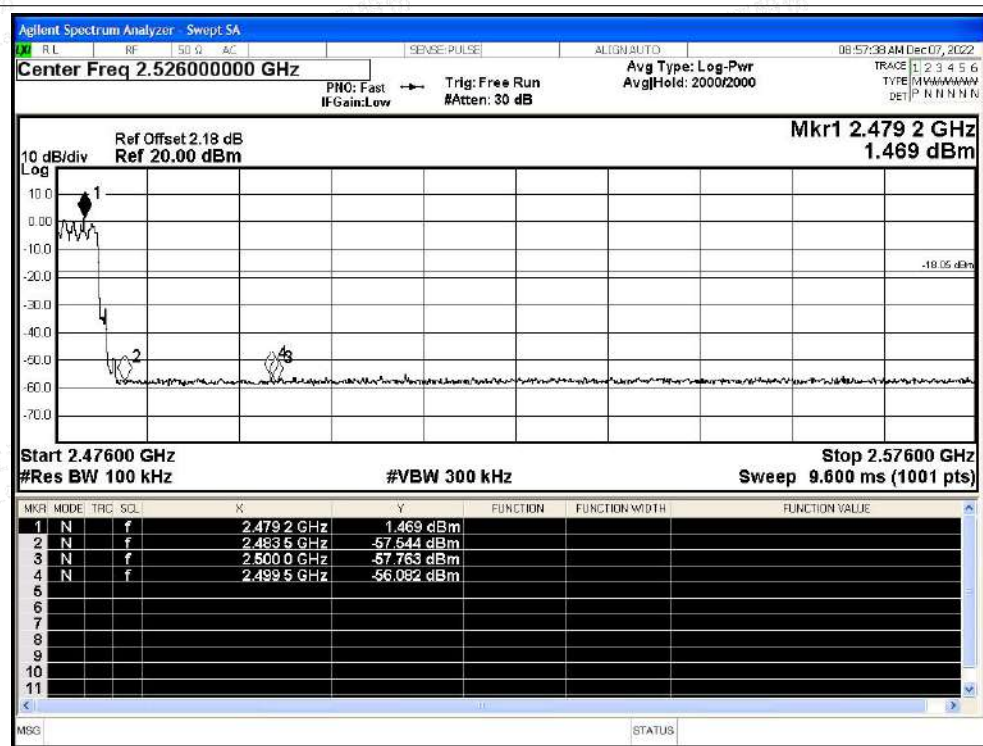




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.76	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.72	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.54	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.57	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.46	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.37	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.7	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.42	-20	Pass

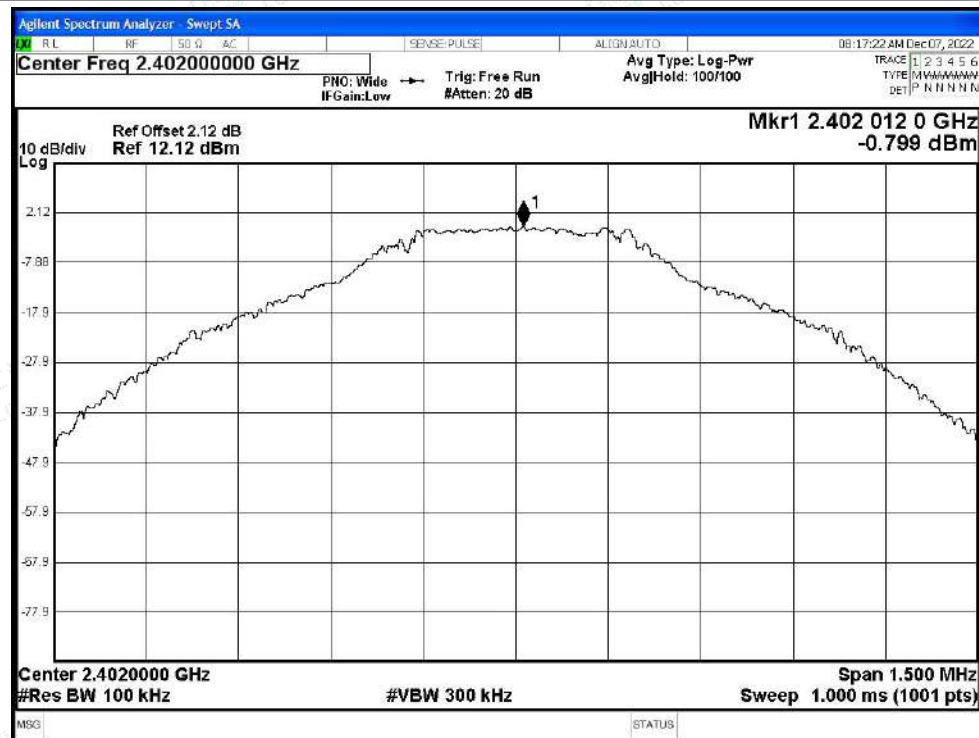


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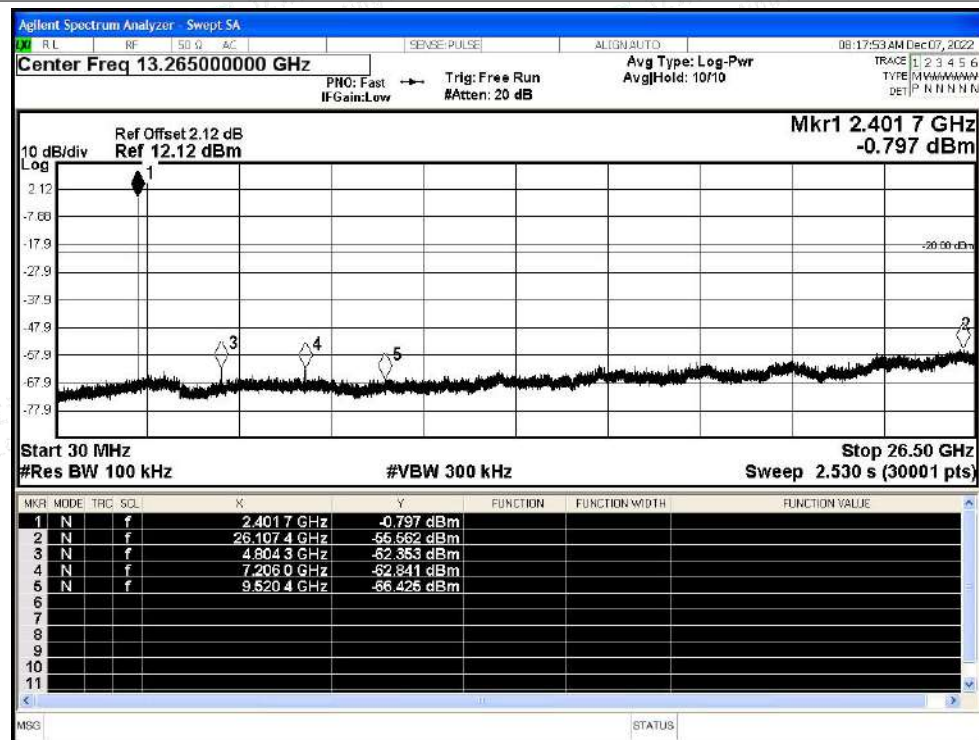


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

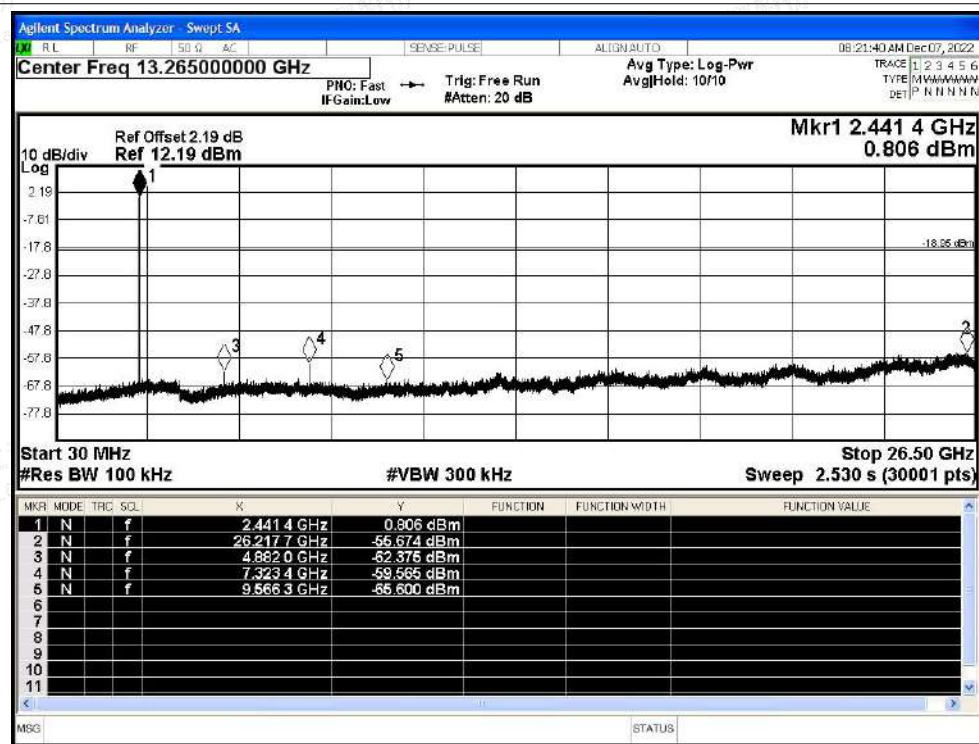




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

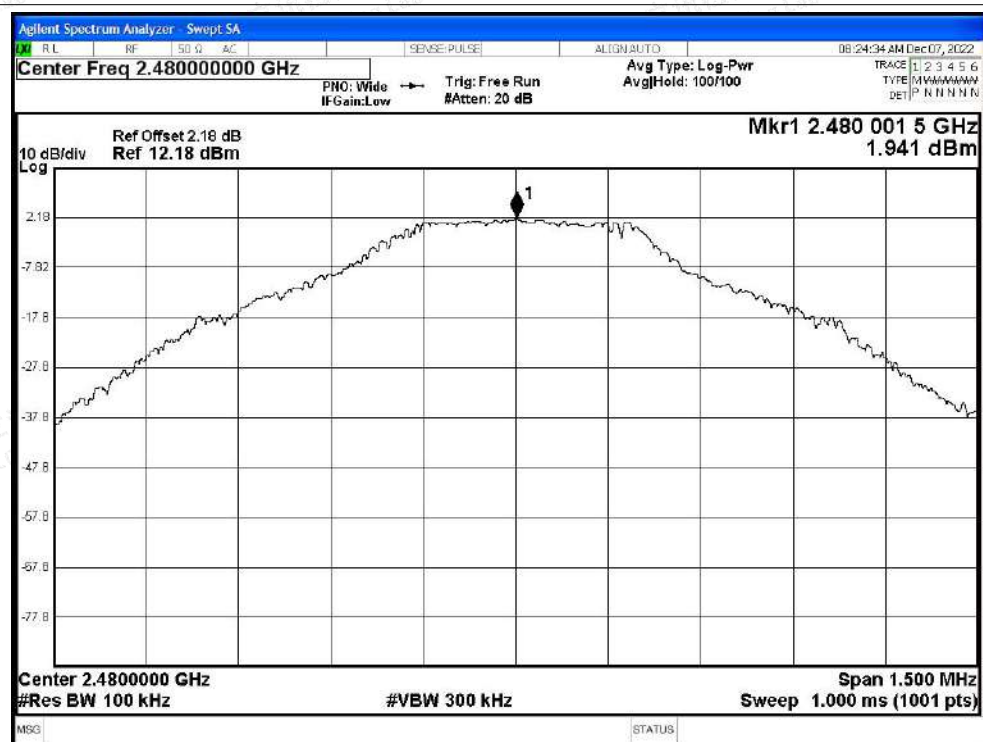


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

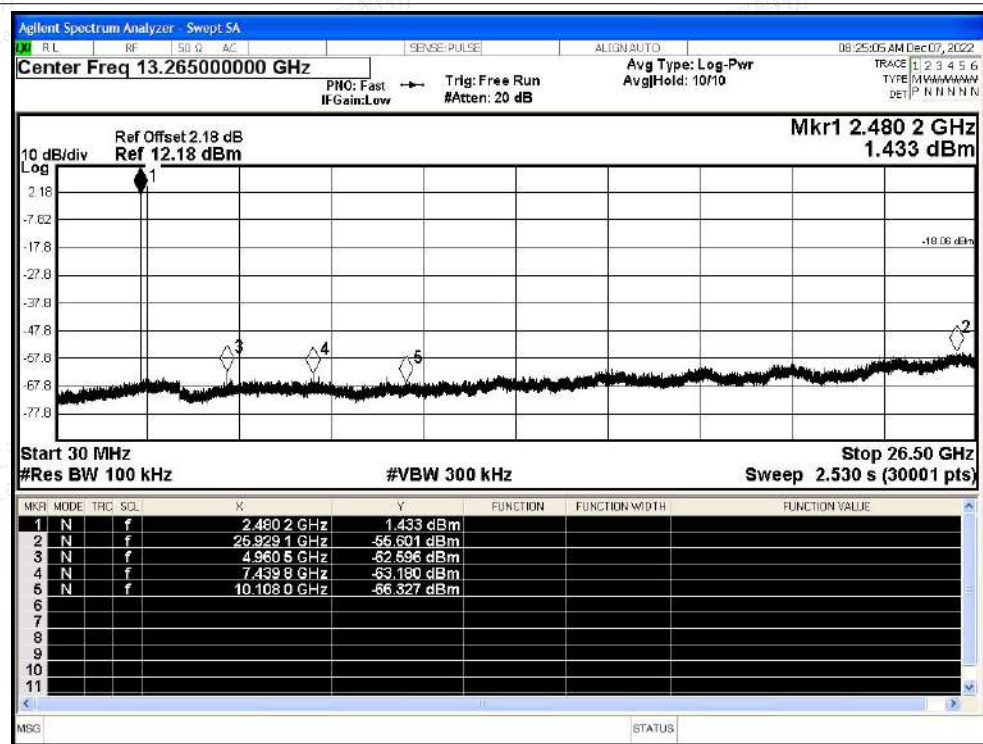




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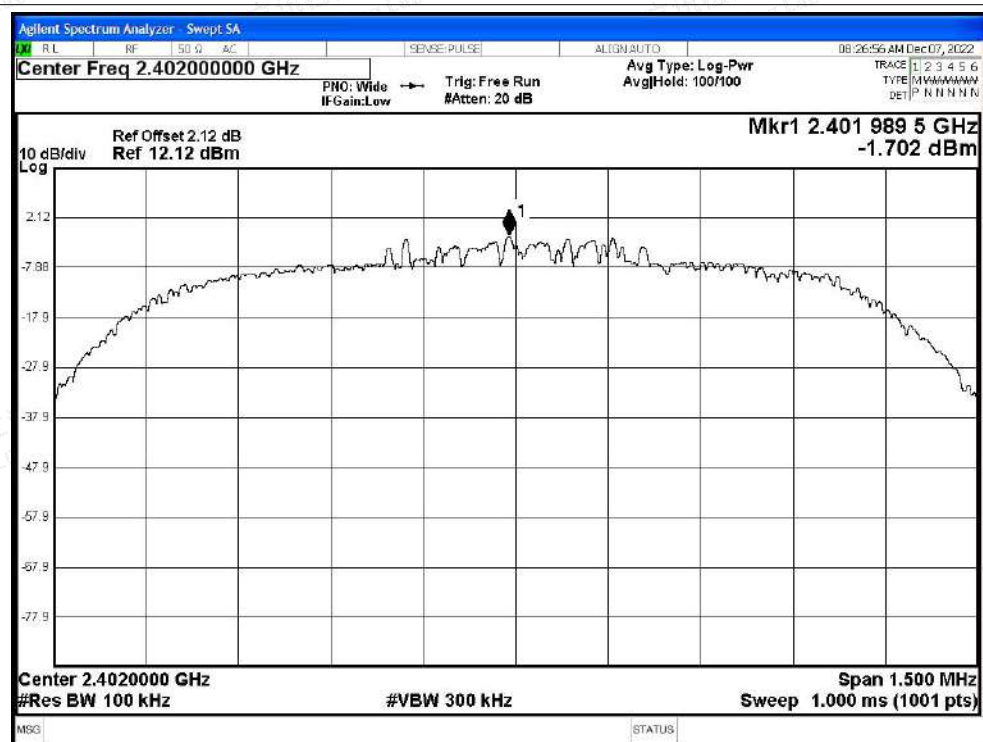


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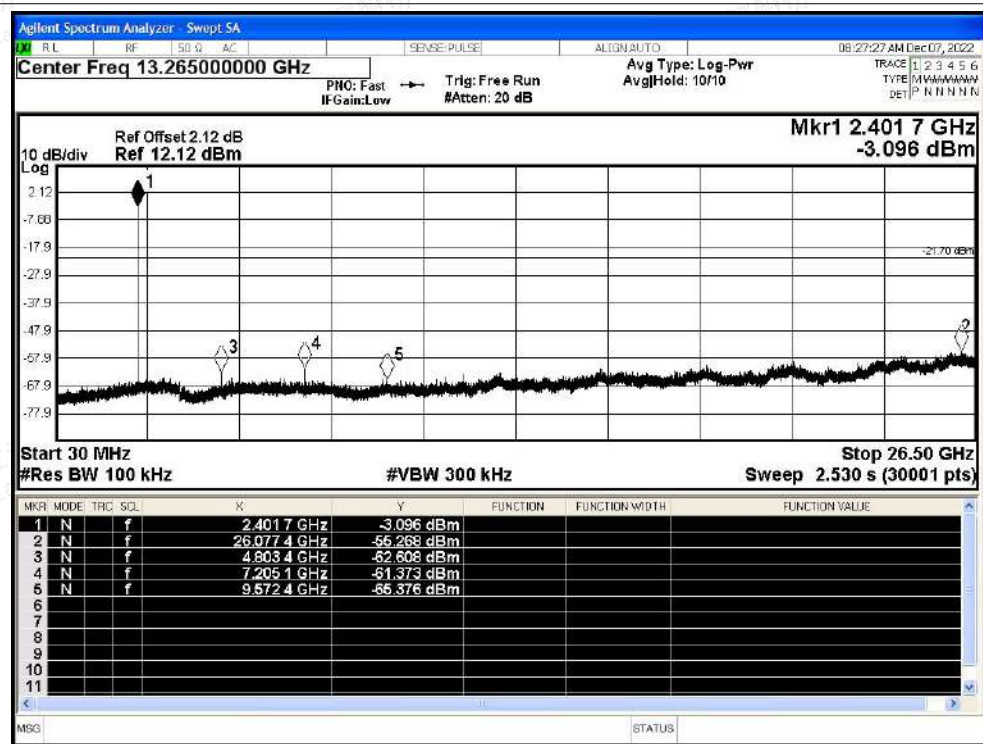




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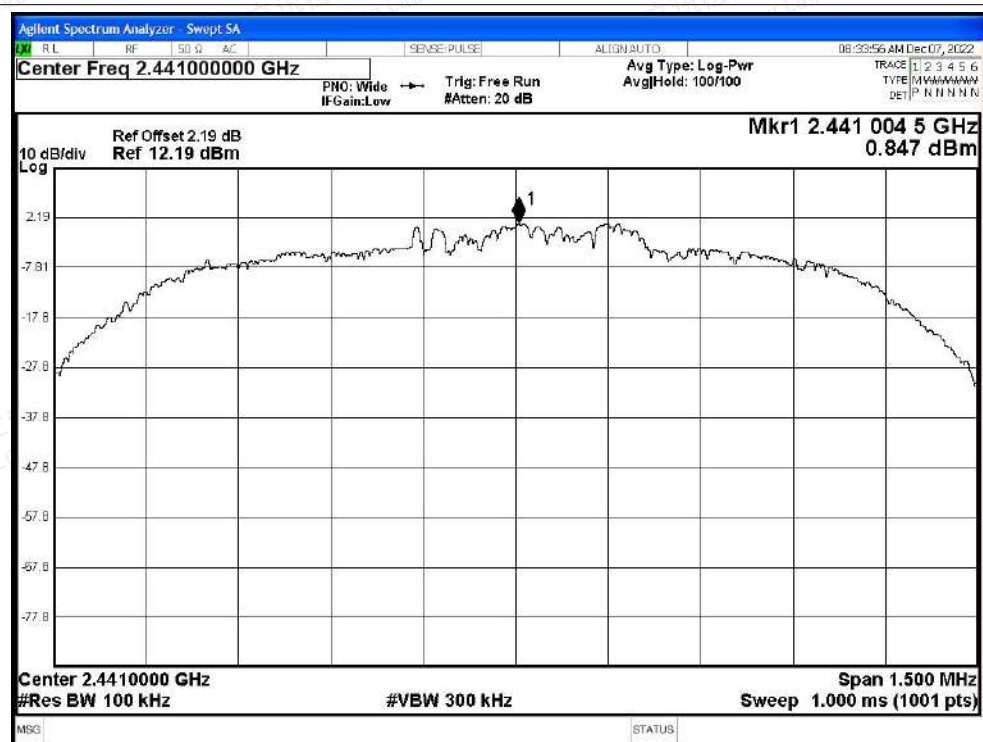


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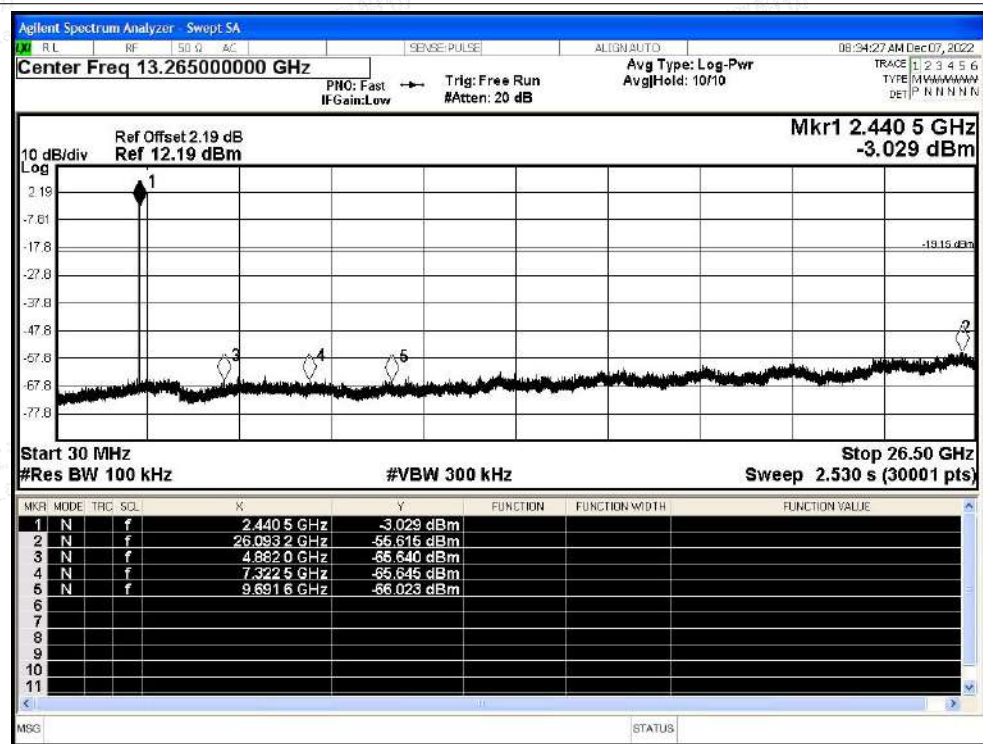




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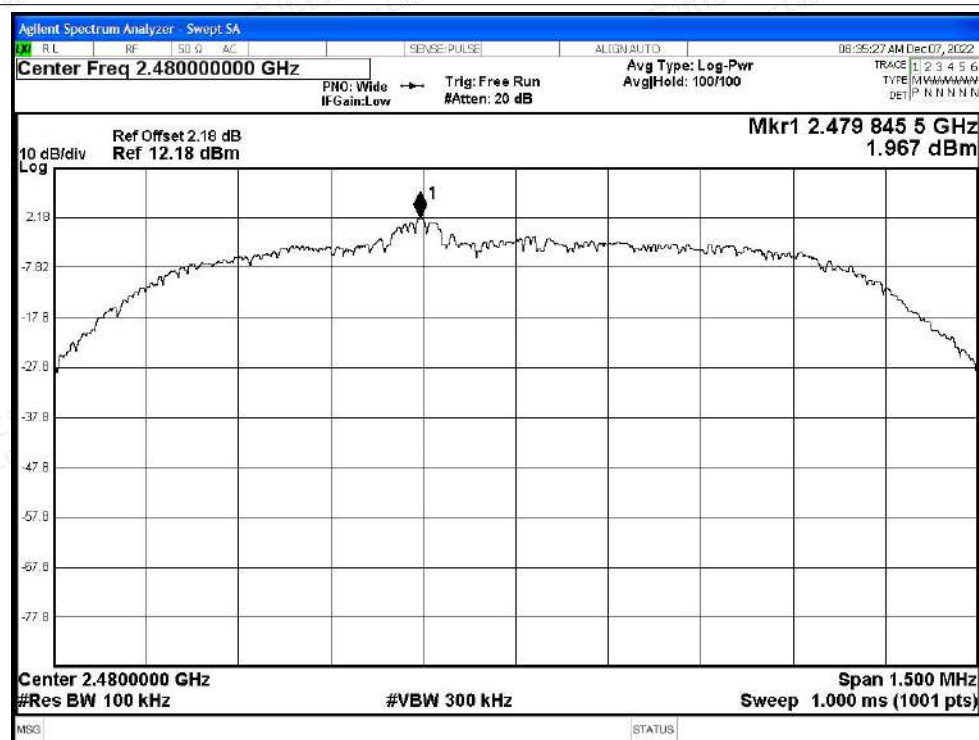


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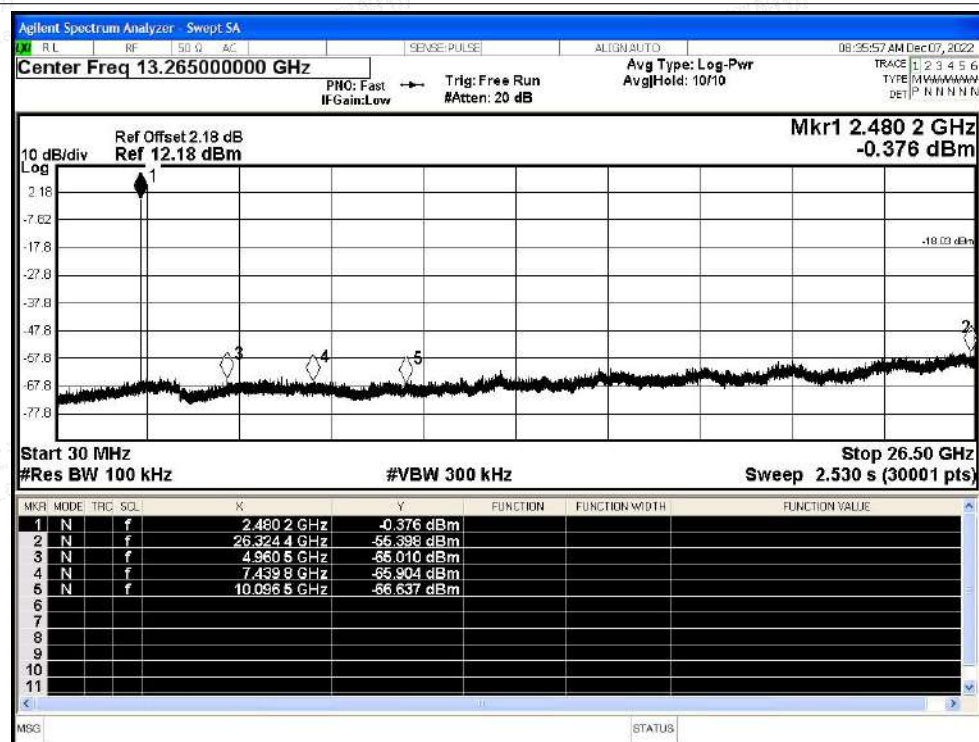




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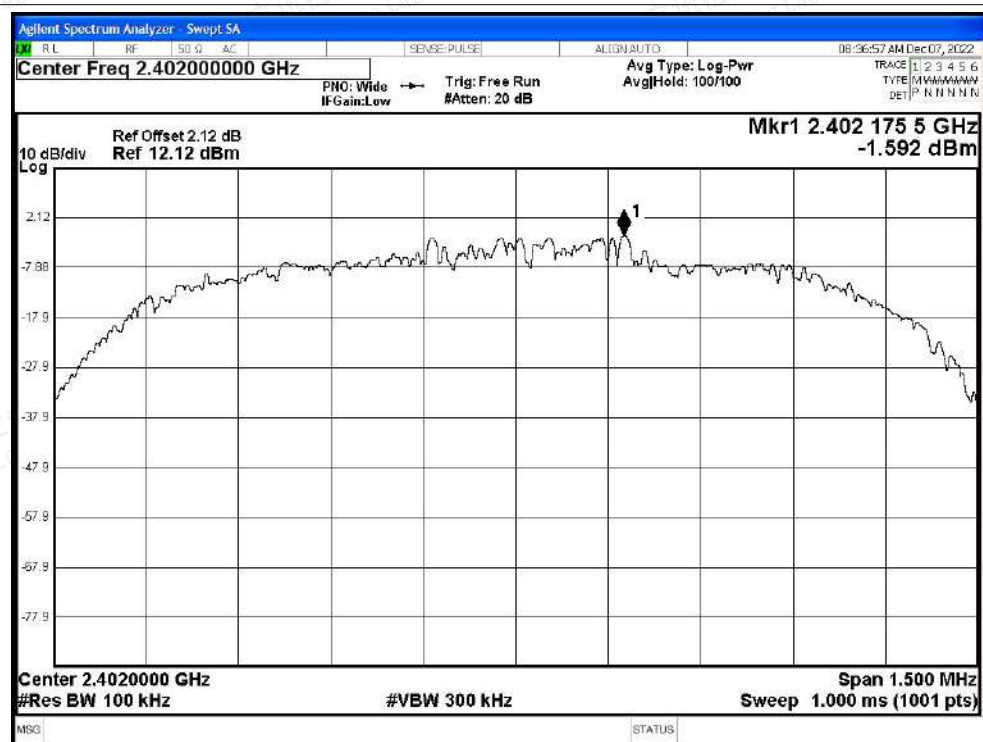


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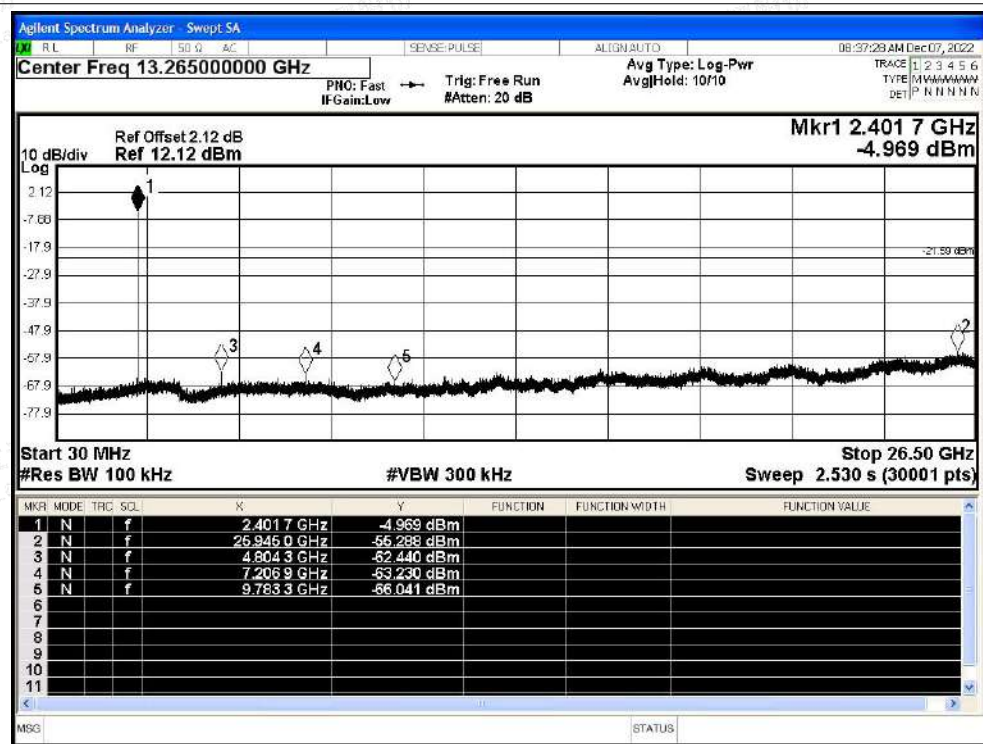




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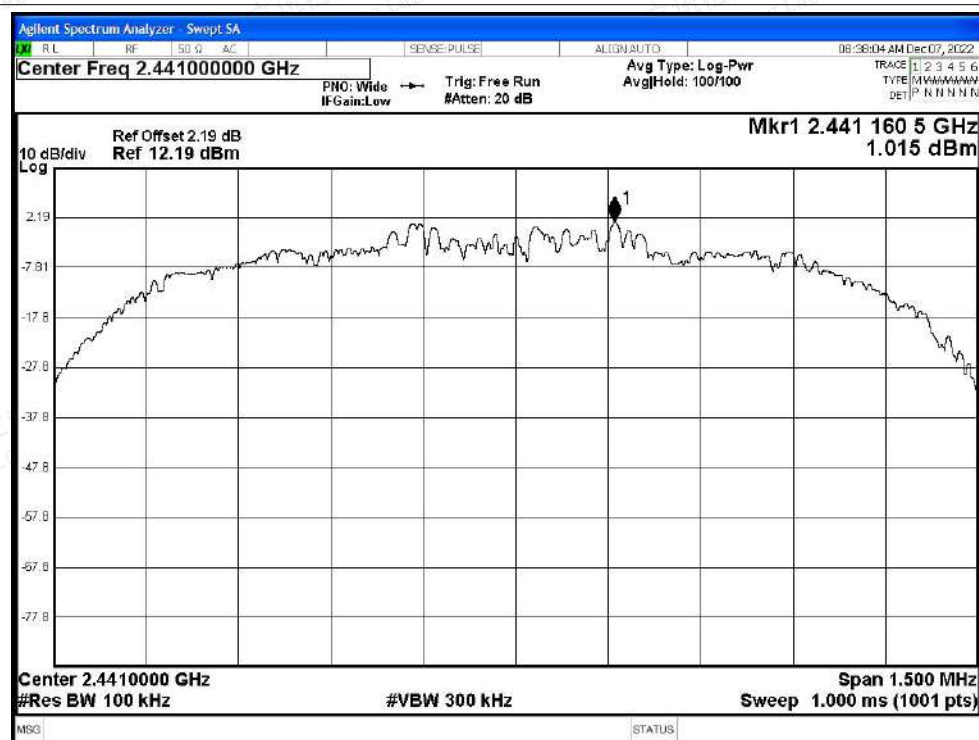


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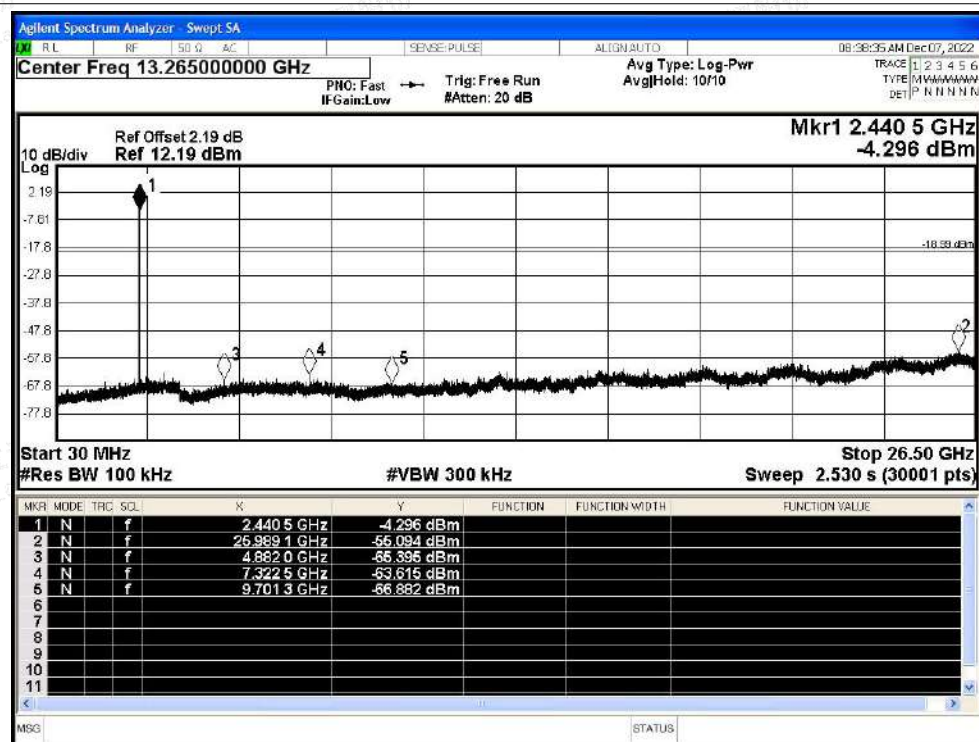




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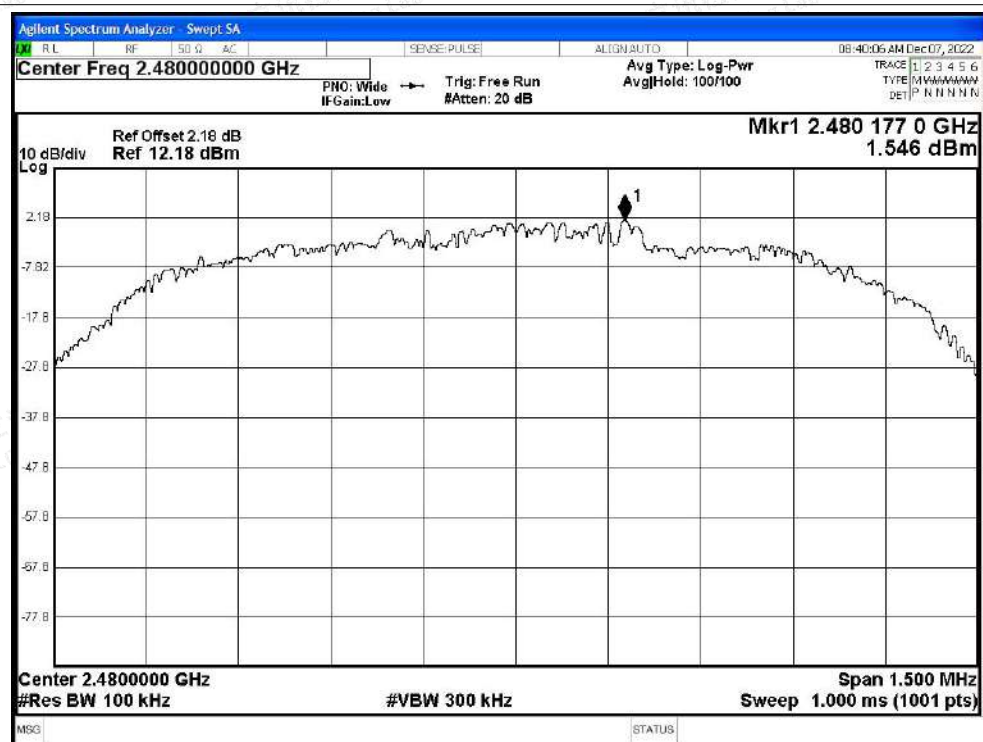


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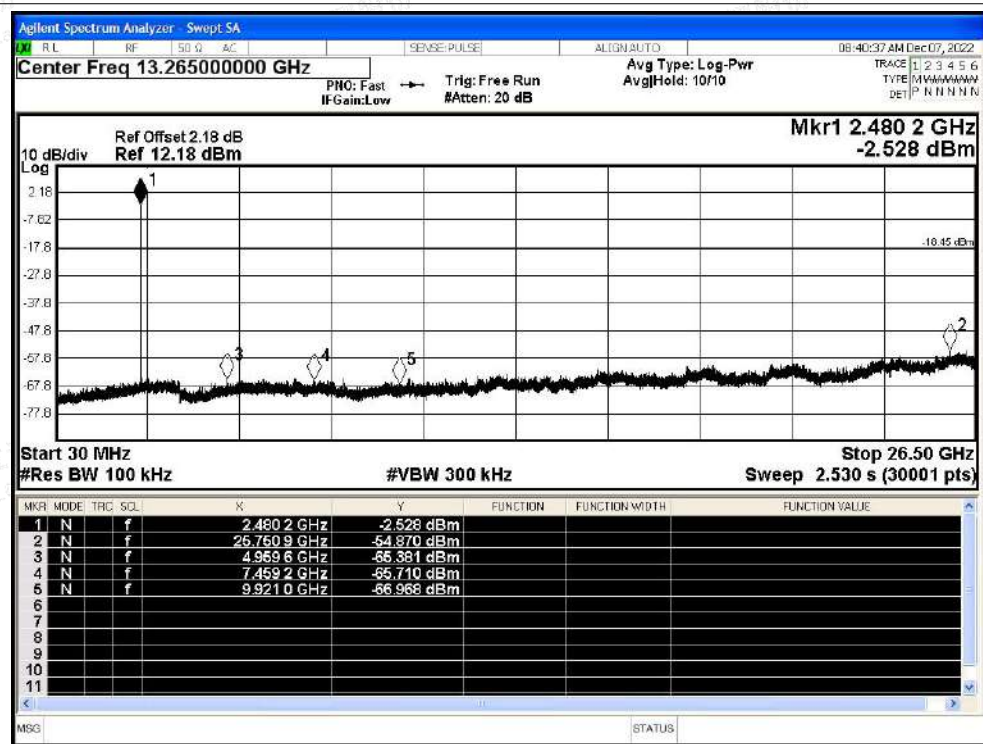




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.65	2	45.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.31	2	36.95	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2329.968	-47.62	2	49.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.504	-59.91	2	37.35	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.81	2	47.45	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.22	2	37.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.52	2	47.74	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.53	2	37.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.928	-46.91	2	50.35	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.8	-59.36	2	37.9	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.31	2	46.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.63	2	37.63	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.29	2	47.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.51	2	36.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.008	-47.05	2	50.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2368.272	-59.91	2	37.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.06	2	48.2	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.06	2	37.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.84	2	46.42	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.01	2	38.25	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.96	-46.79	2	50.47	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.01	2	38.25	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.43	2	46.83	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.63	2	37.63	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.07	2	46.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.48	2	36.78	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.104	-46.03	2	51.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.928	-59.87	2	37.39	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.57	2	47.69	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.98	2	37.28	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.9	2	47.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.98	2	38.28	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2498.776	-47.04	2	50.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.584	-58.9	2	38.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.46	2	47.8	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.58	2	37.68	Average	54	Pass

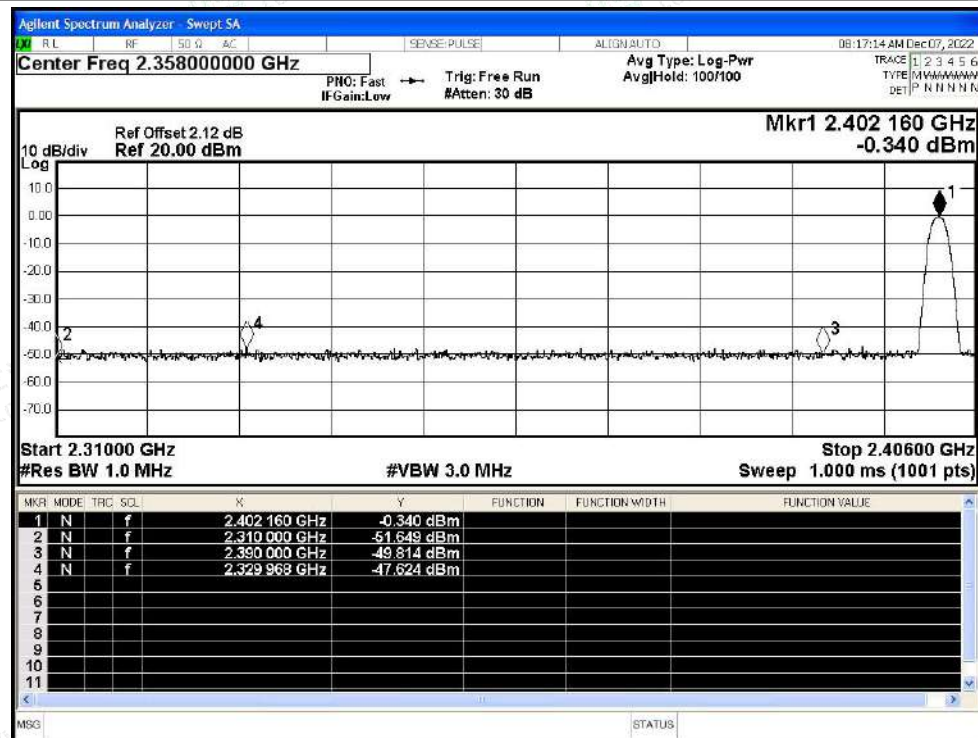


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

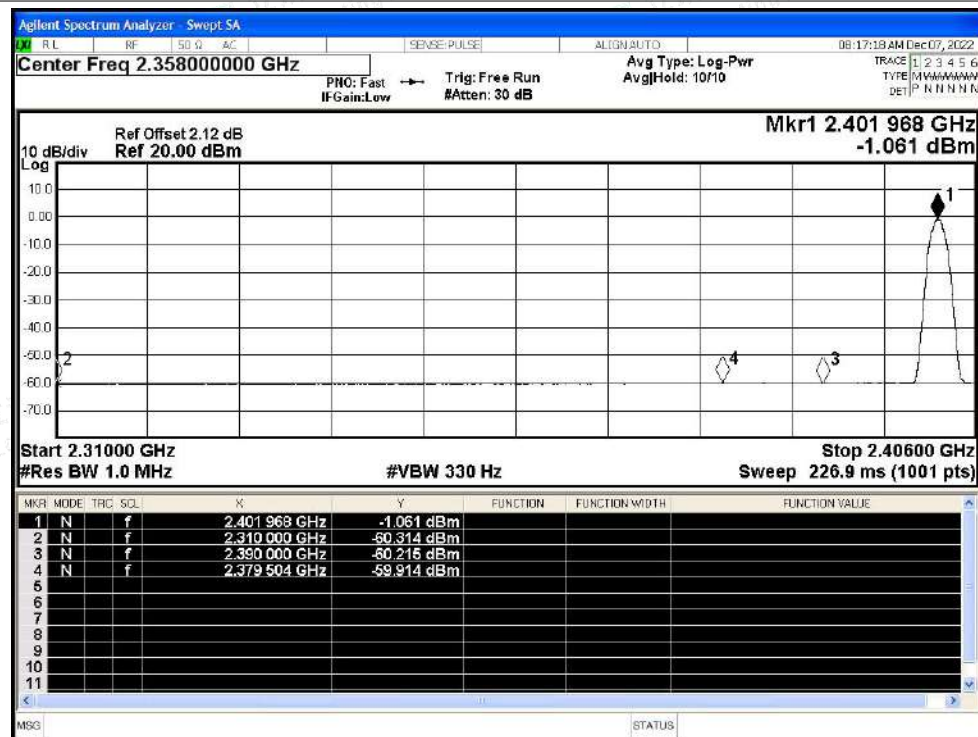


Test Graphs

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

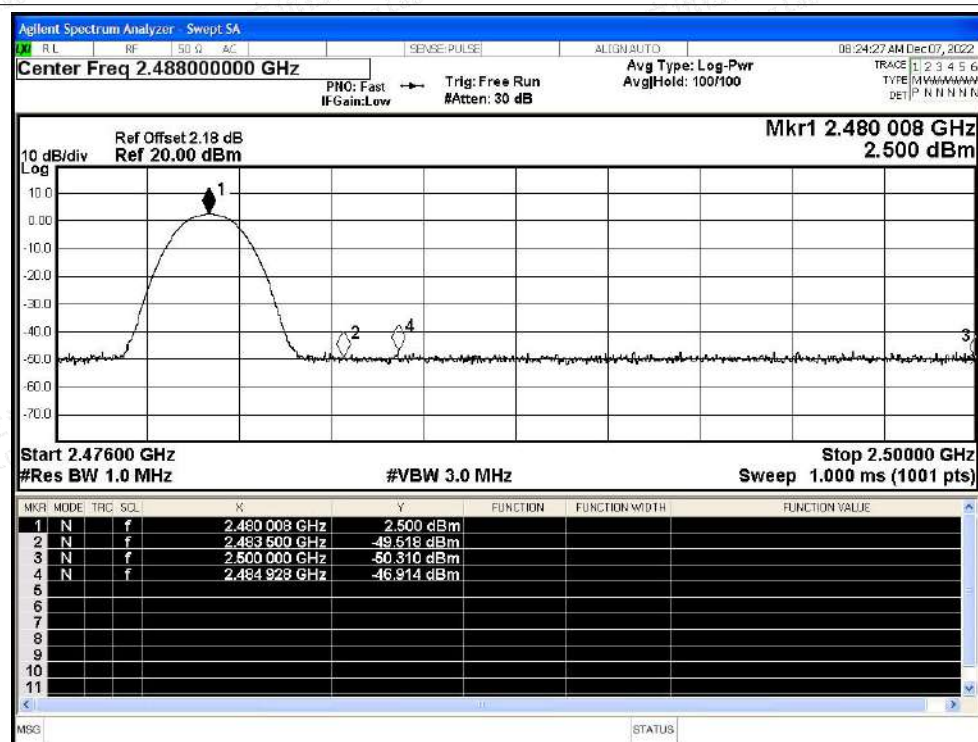


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

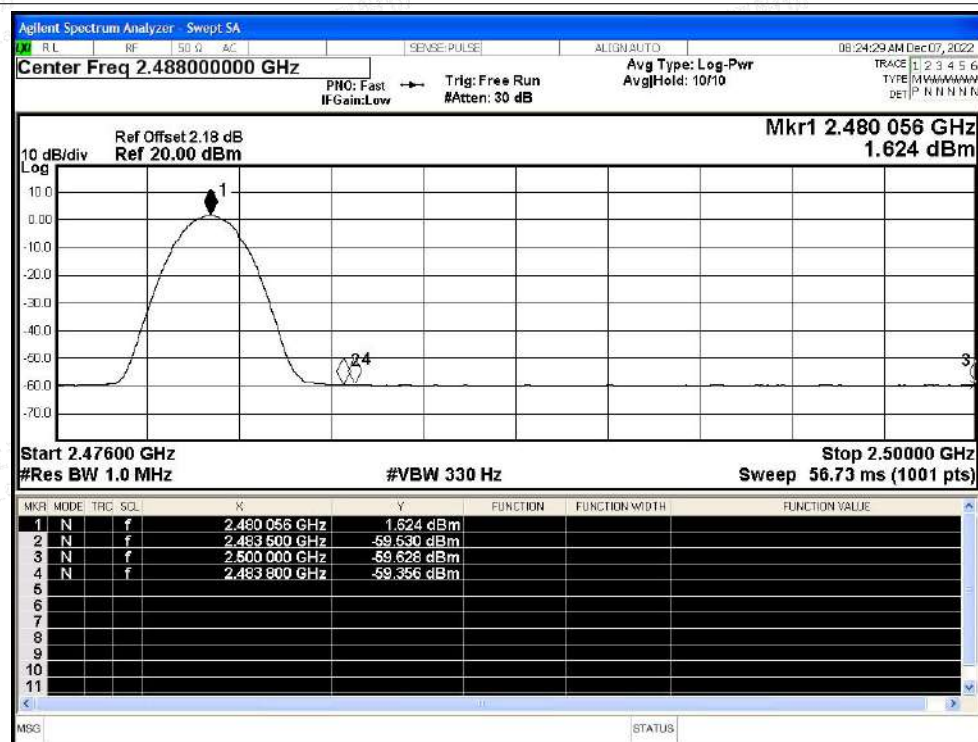




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

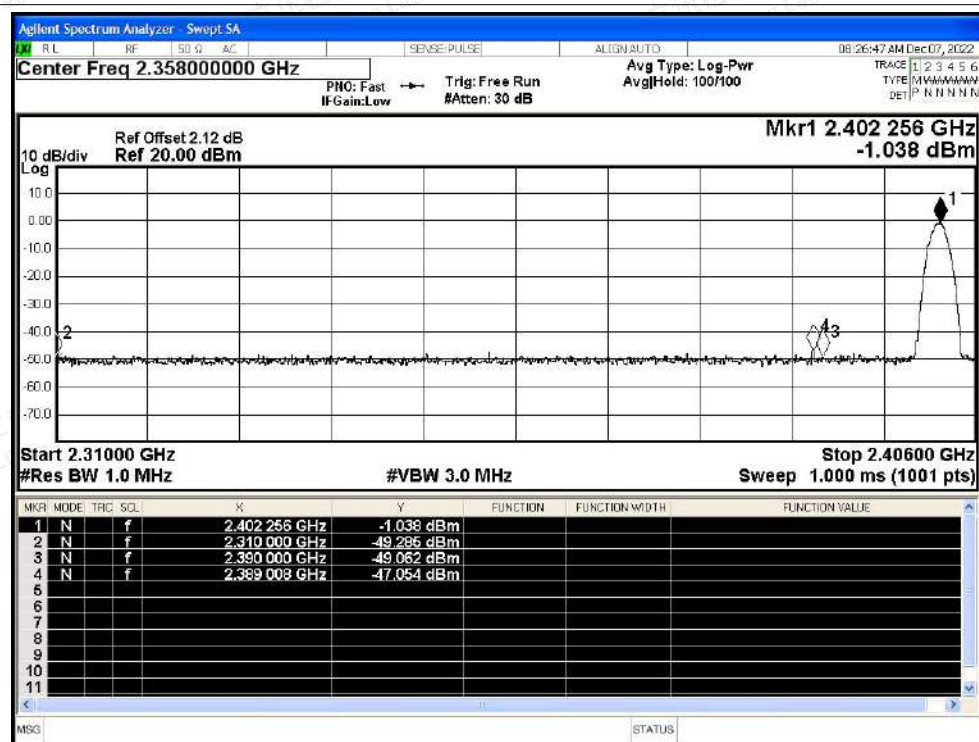


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

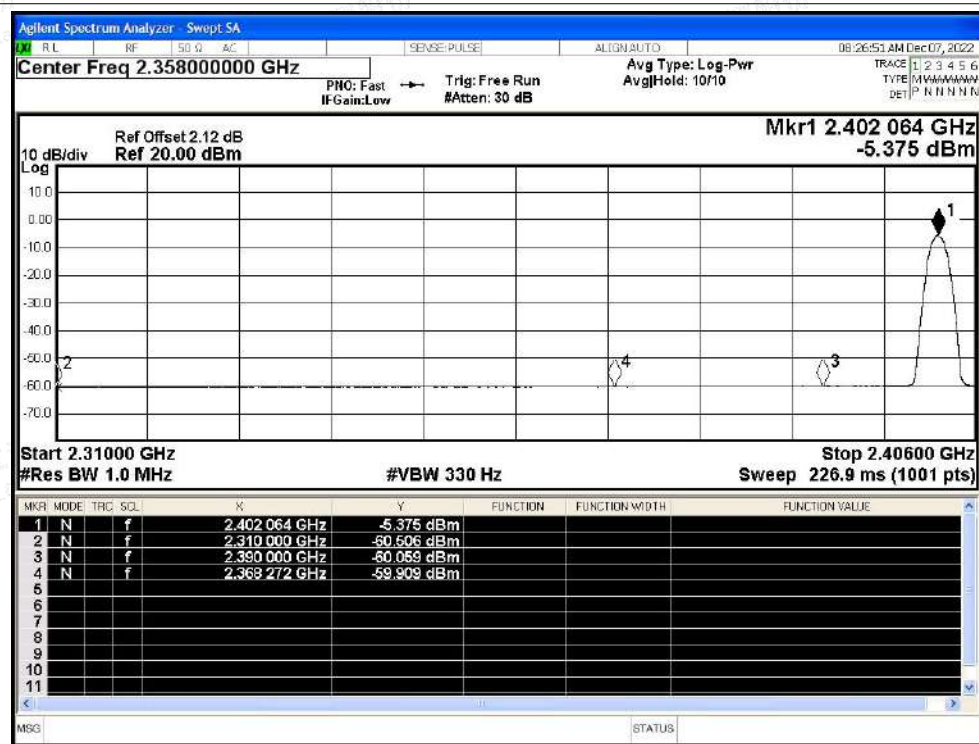




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

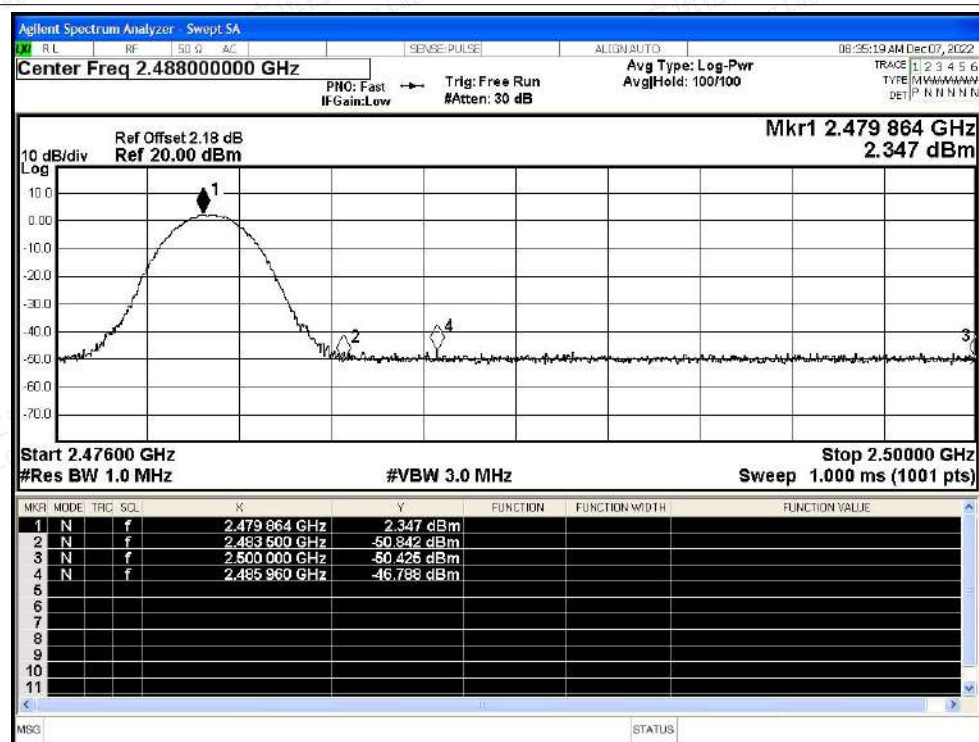


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

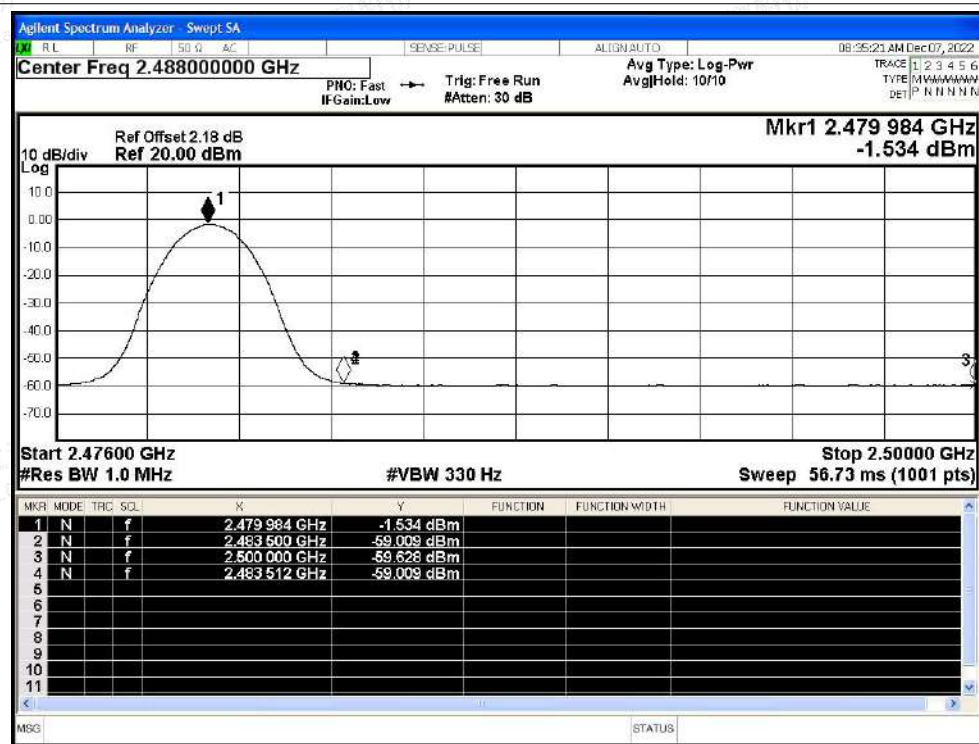




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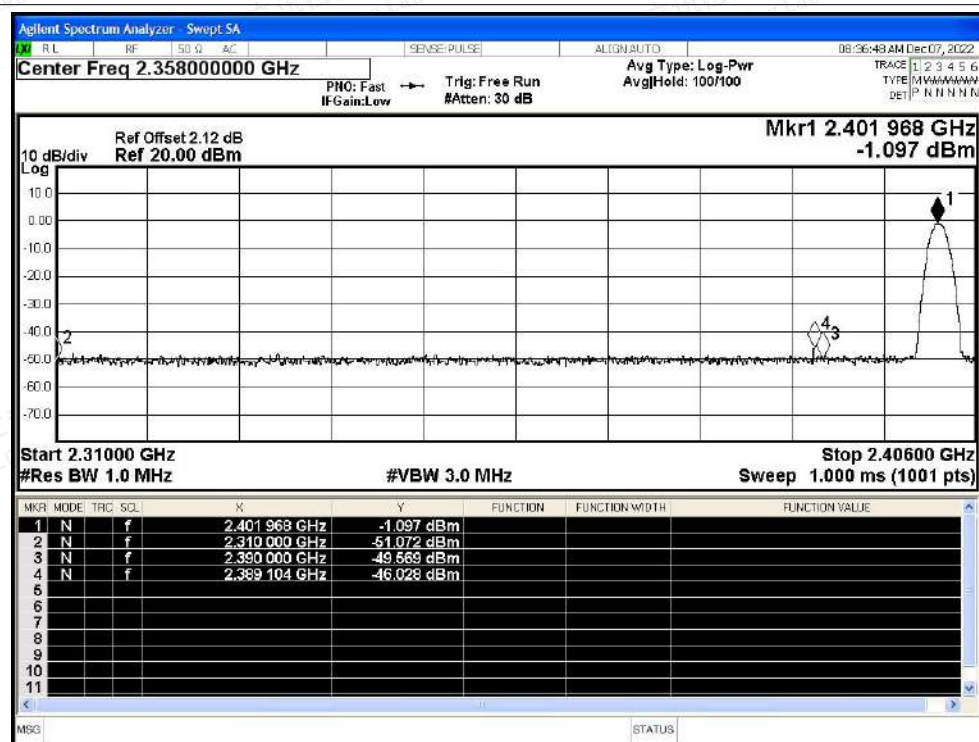


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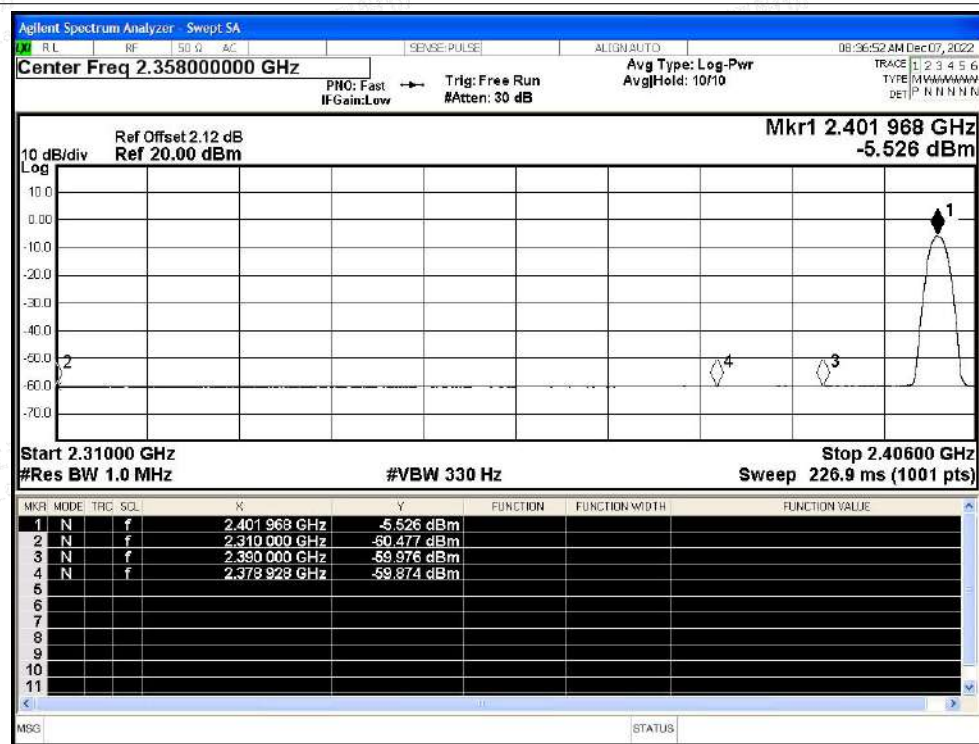




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

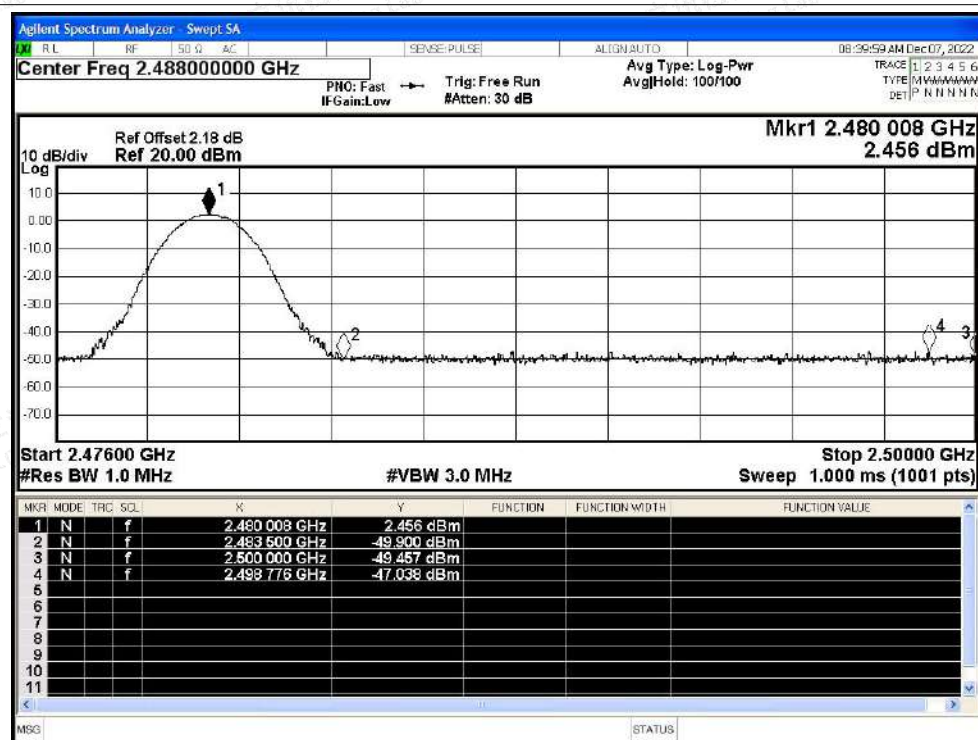


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

