



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Wireless Speaker

Test Model: Tc

Environmental Conditions

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





A.1 -20dB Bandwidth

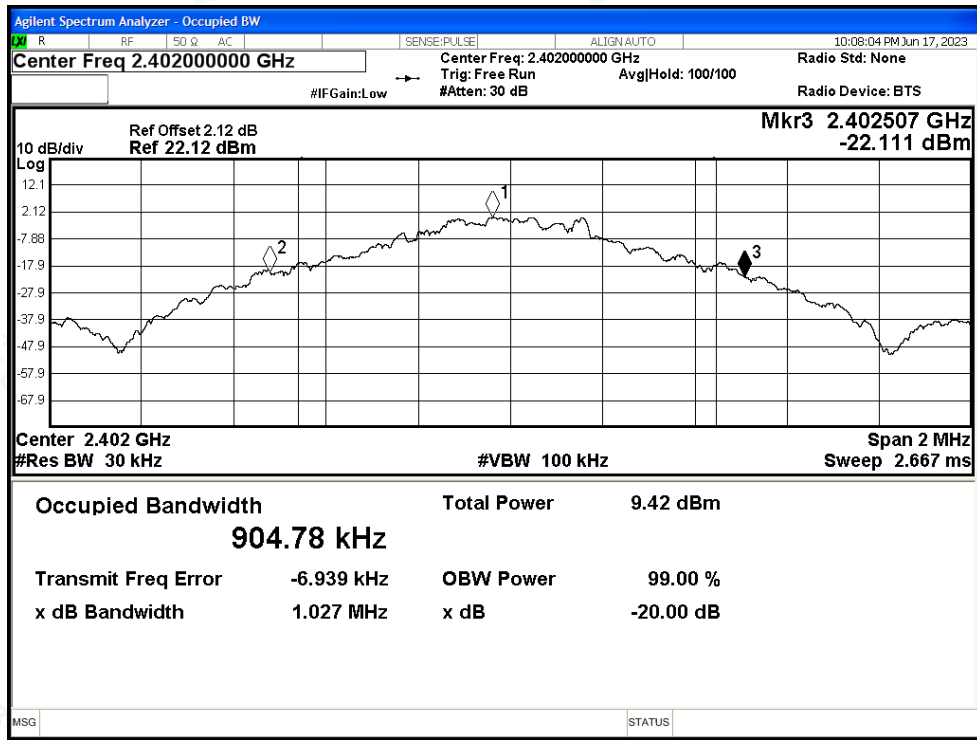
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.027	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.021	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.005	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.283	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.301	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

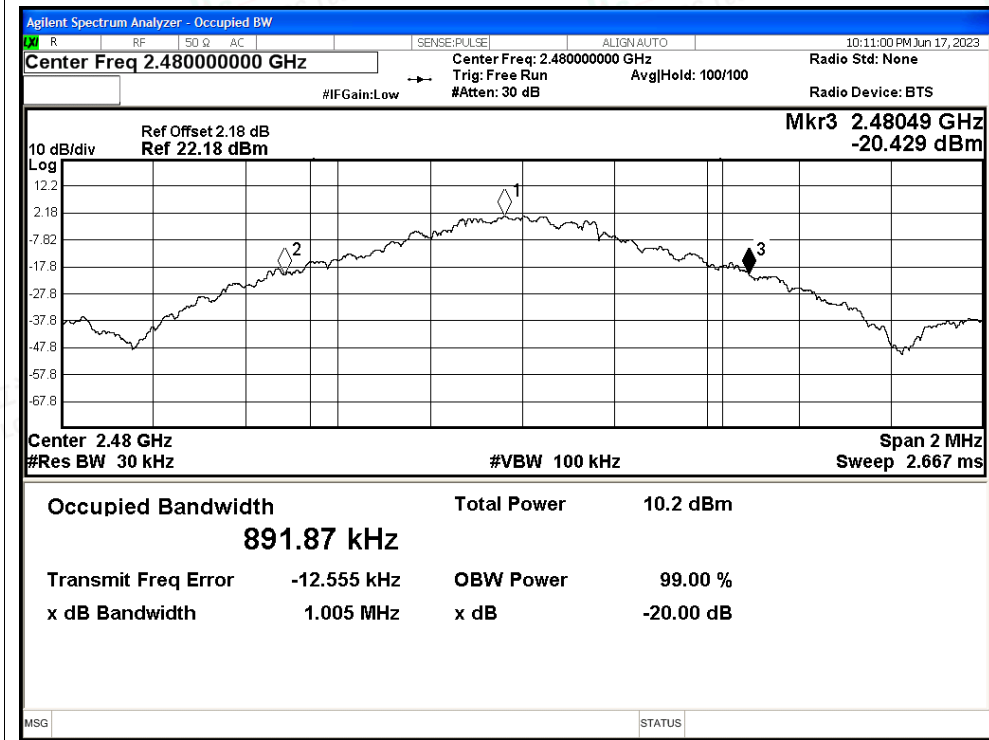


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

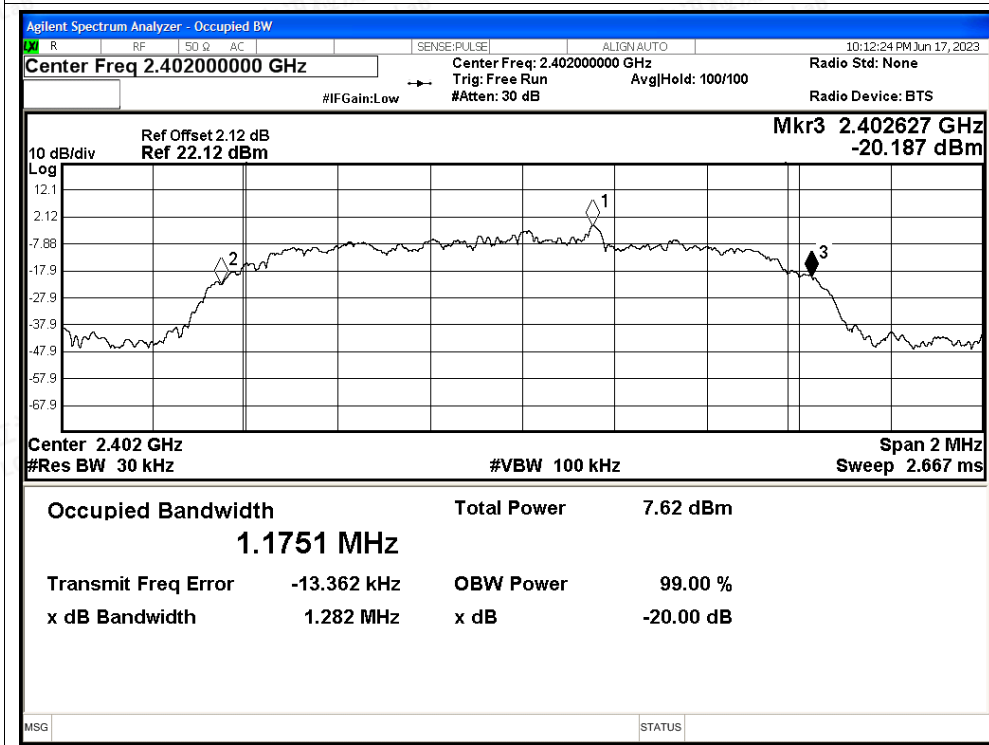




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

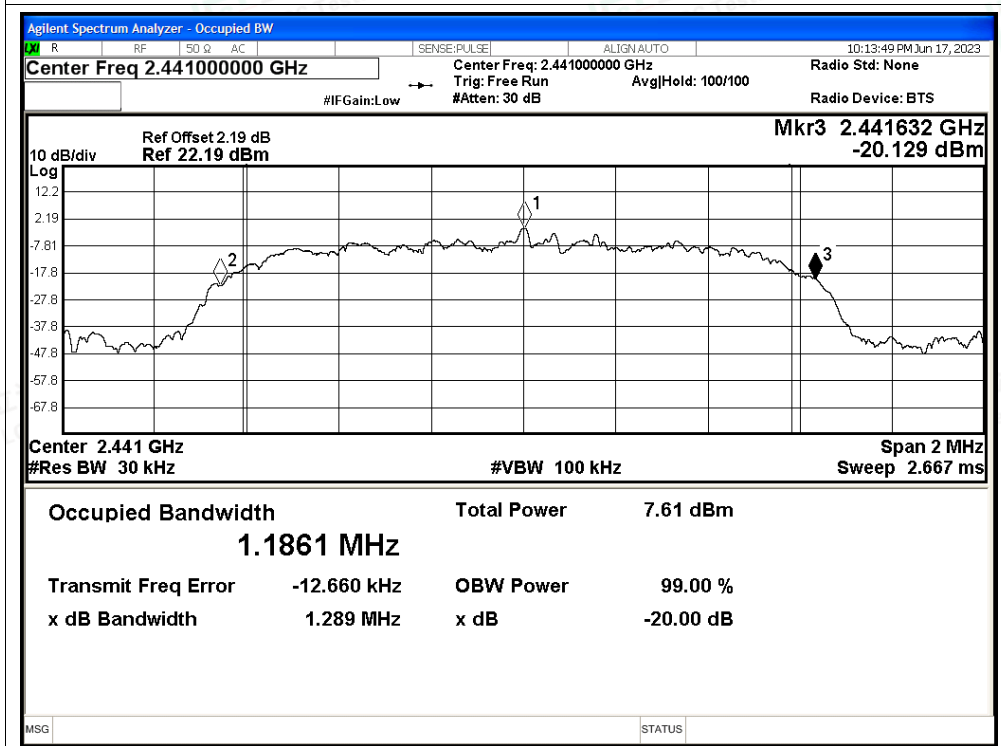


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

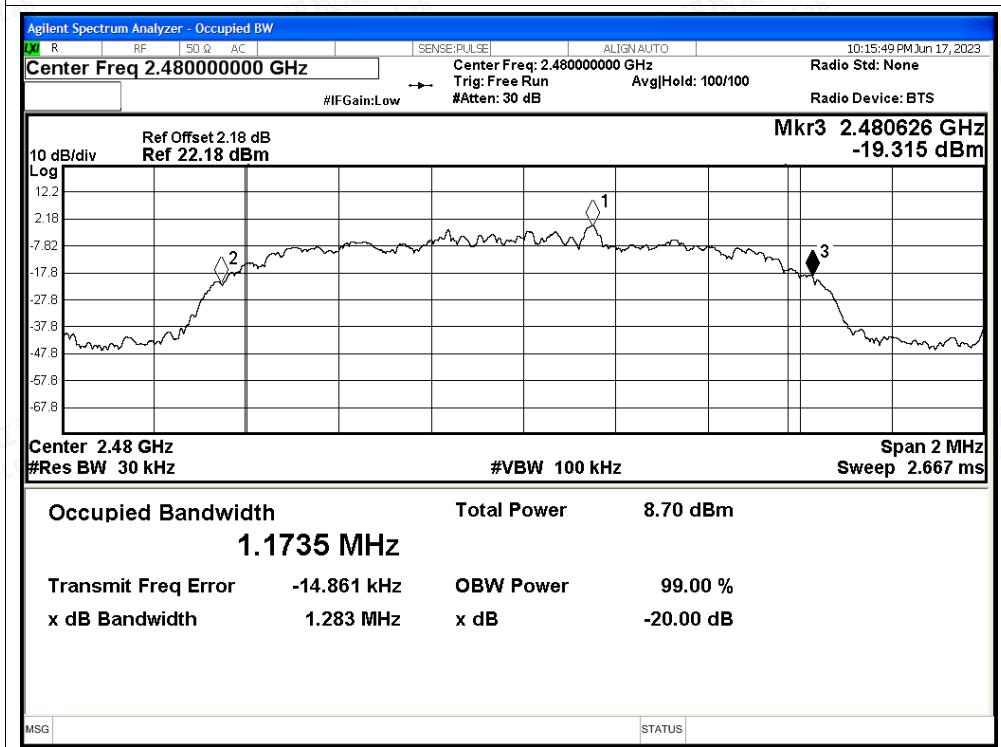




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

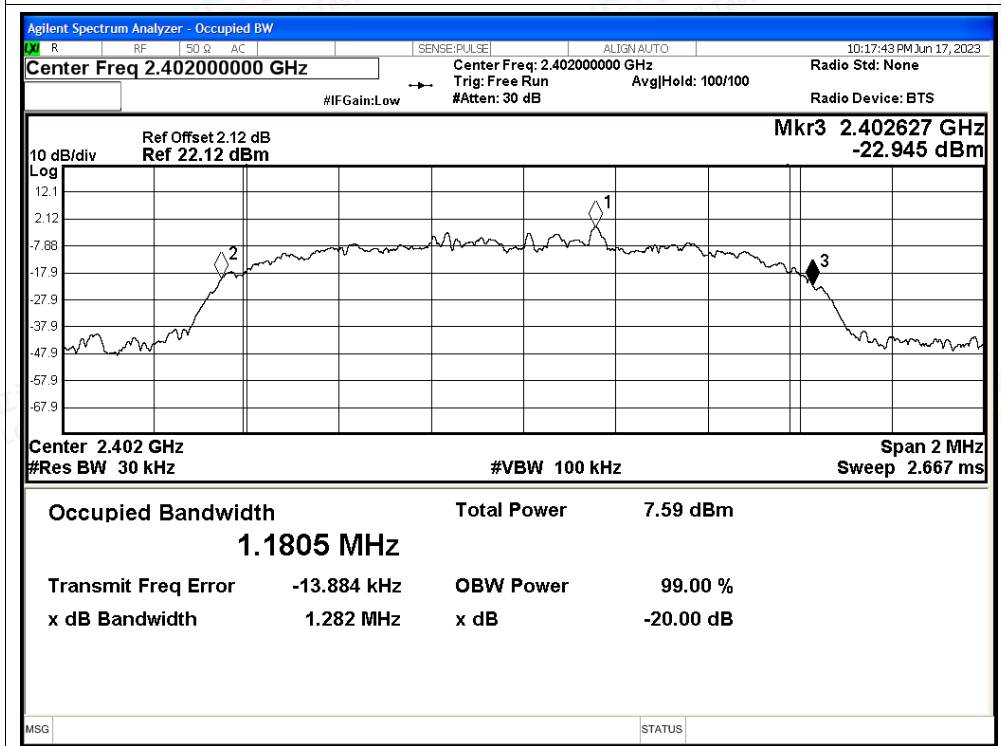


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

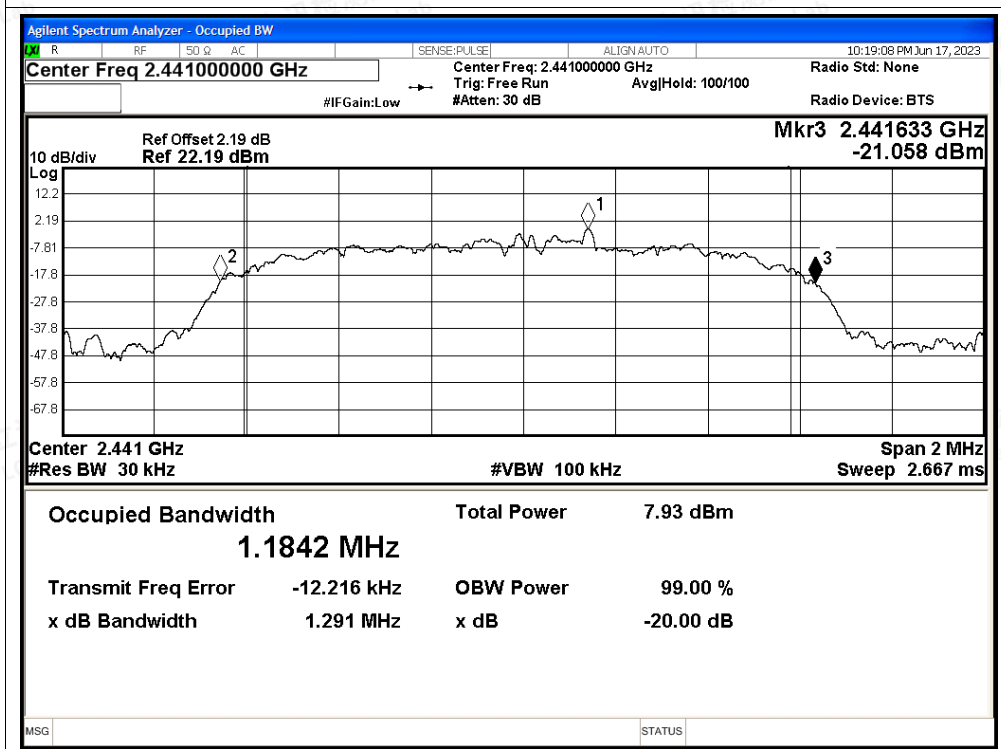


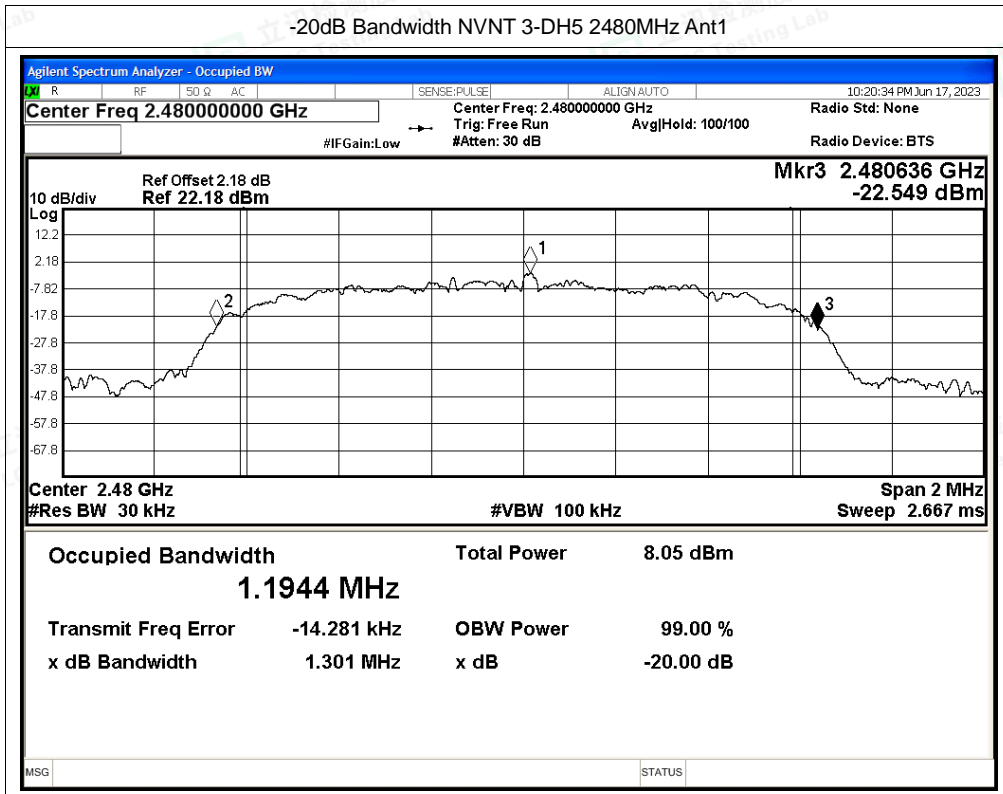


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-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	3.09	21	Pass
NVNT	1-DH5	2441	Ant1	3.61	21	Pass
NVNT	1-DH5	2480	Ant1	3.95	21	Pass
NVNT	2-DH5	2402	Ant1	2.90	21	Pass
NVNT	2-DH5	2441	Ant1	3.44	21	Pass
NVNT	2-DH5	2480	Ant1	3.80	21	Pass
NVNT	3-DH5	2402	Ant1	3.04	21	Pass
NVNT	3-DH5	2441	Ant1	3.57	21	Pass
NVNT	3-DH5	2480	Ant1	3.92	21	Pass

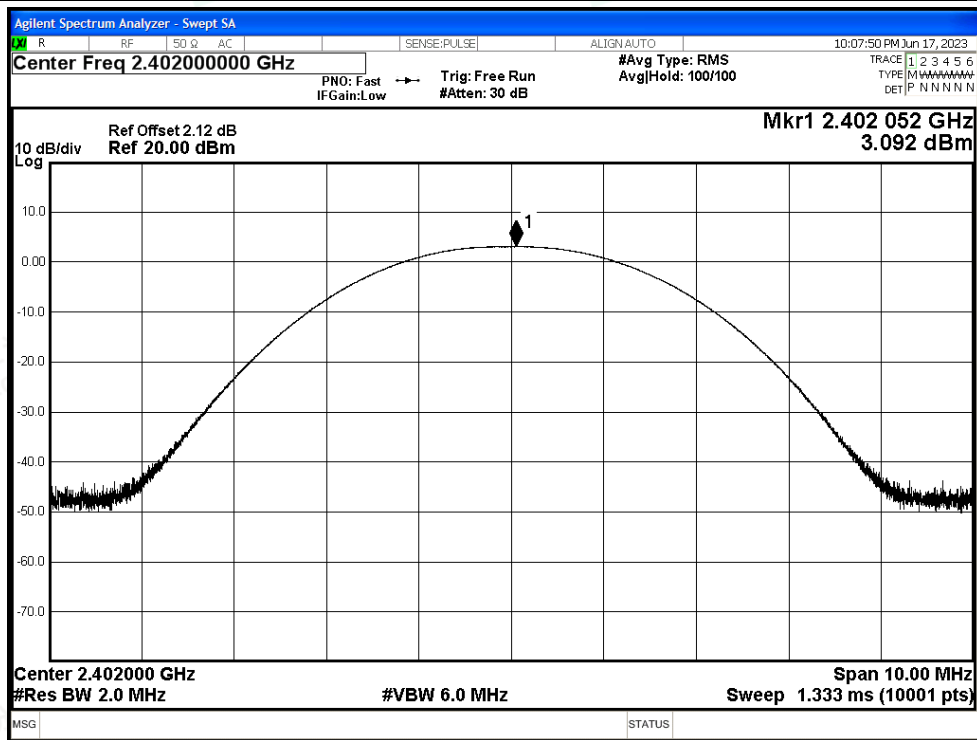


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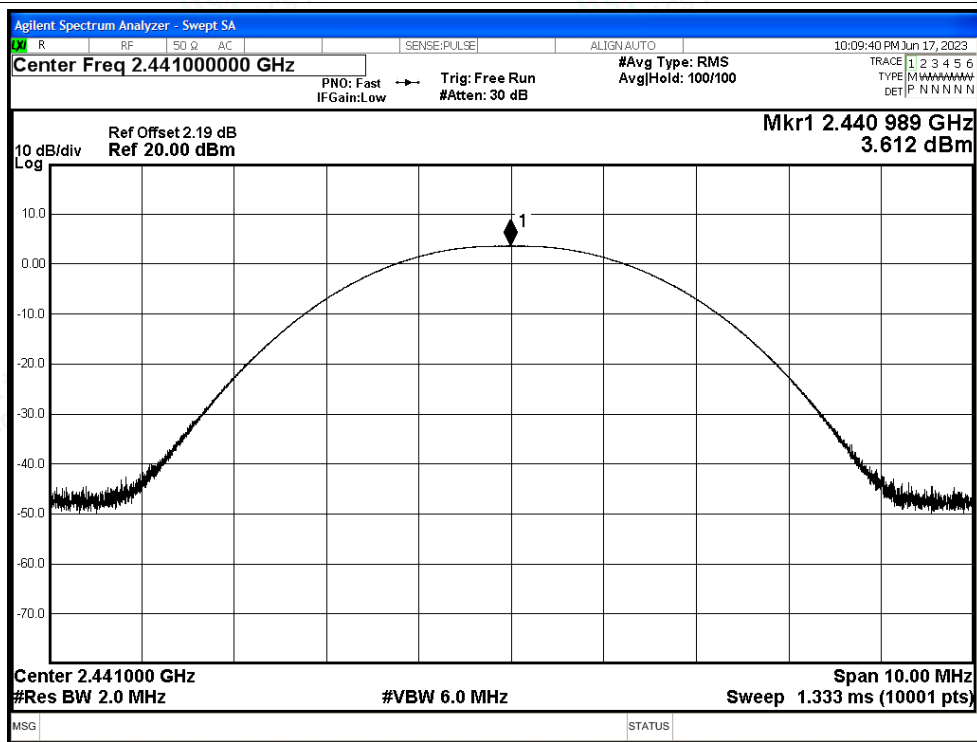


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

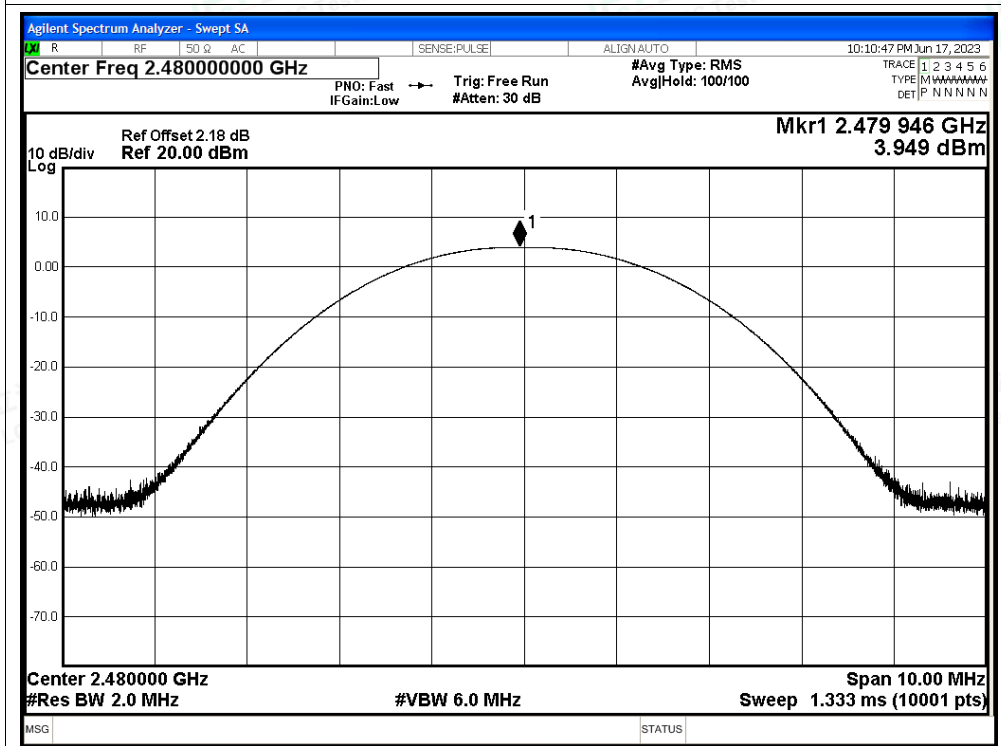


Power NVNT 1-DH5 2441MHz Ant1

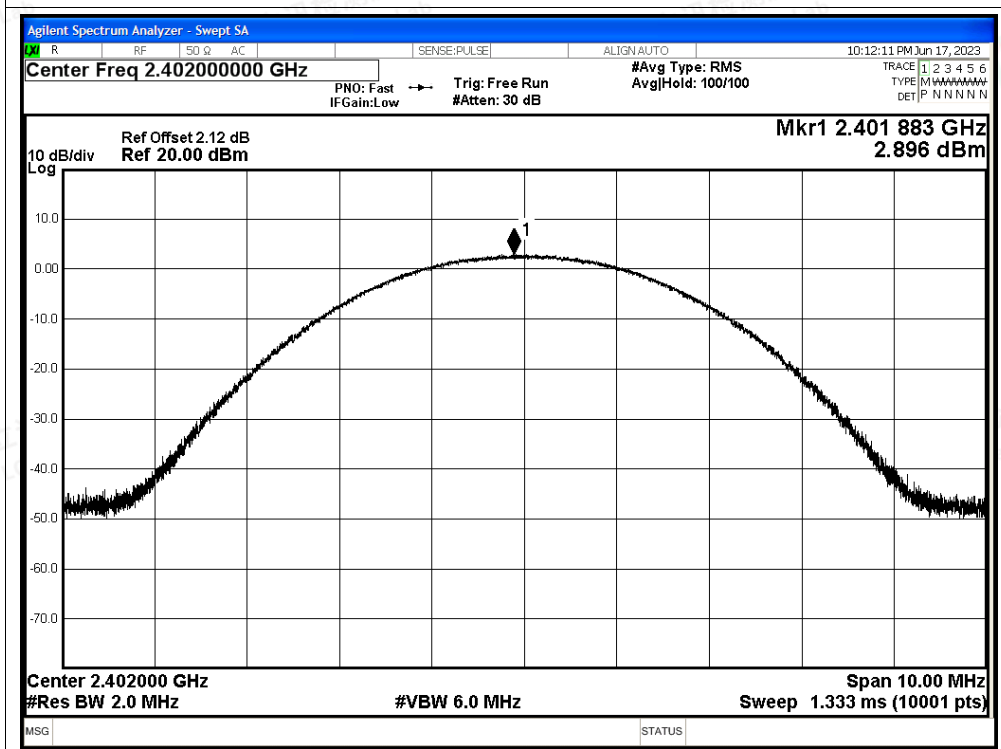




Power NVNT 1-DH5 2480MHz Ant1

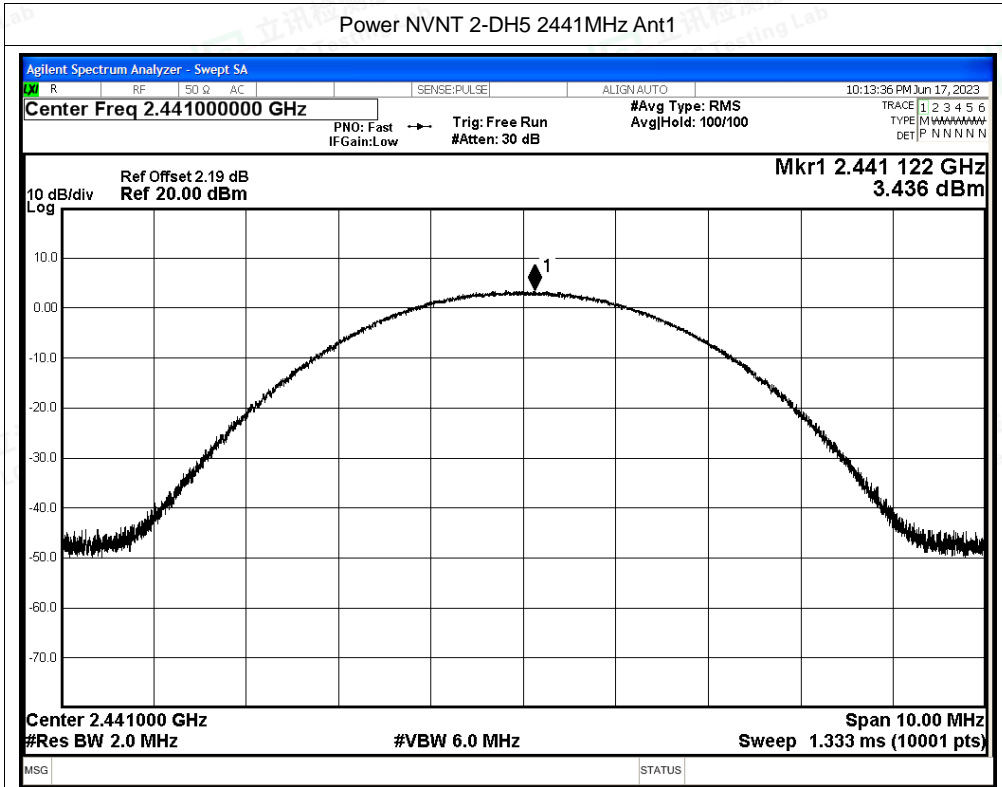


Power NVNT 2-DH5 2402MHz Ant1

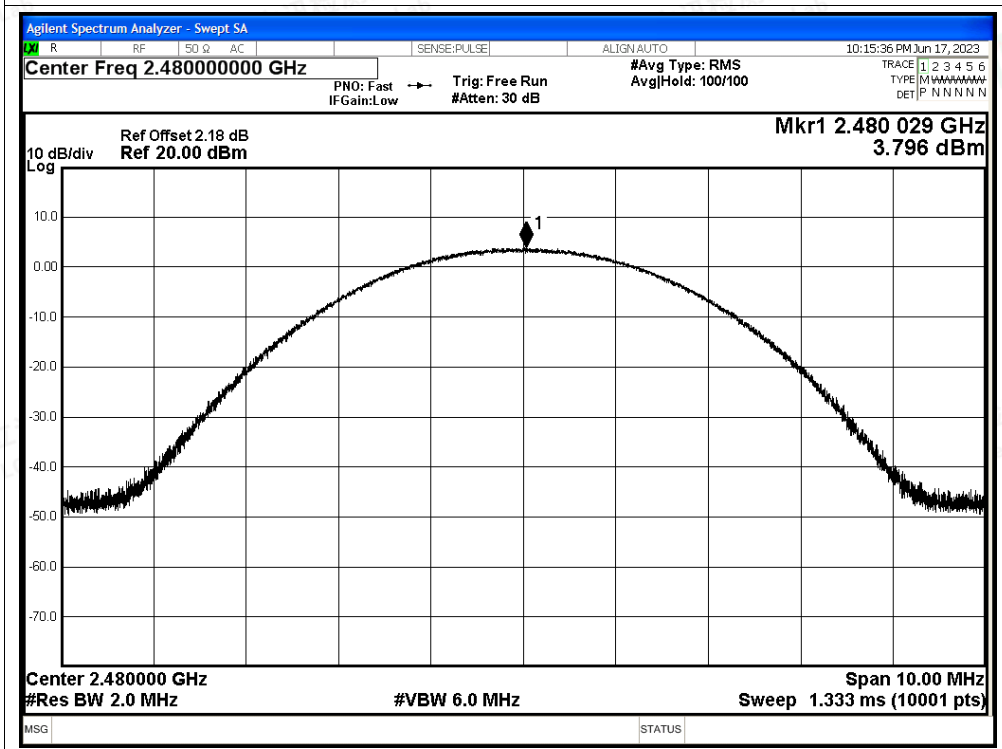




Power NVNT 2-DH5 2441MHz Ant1

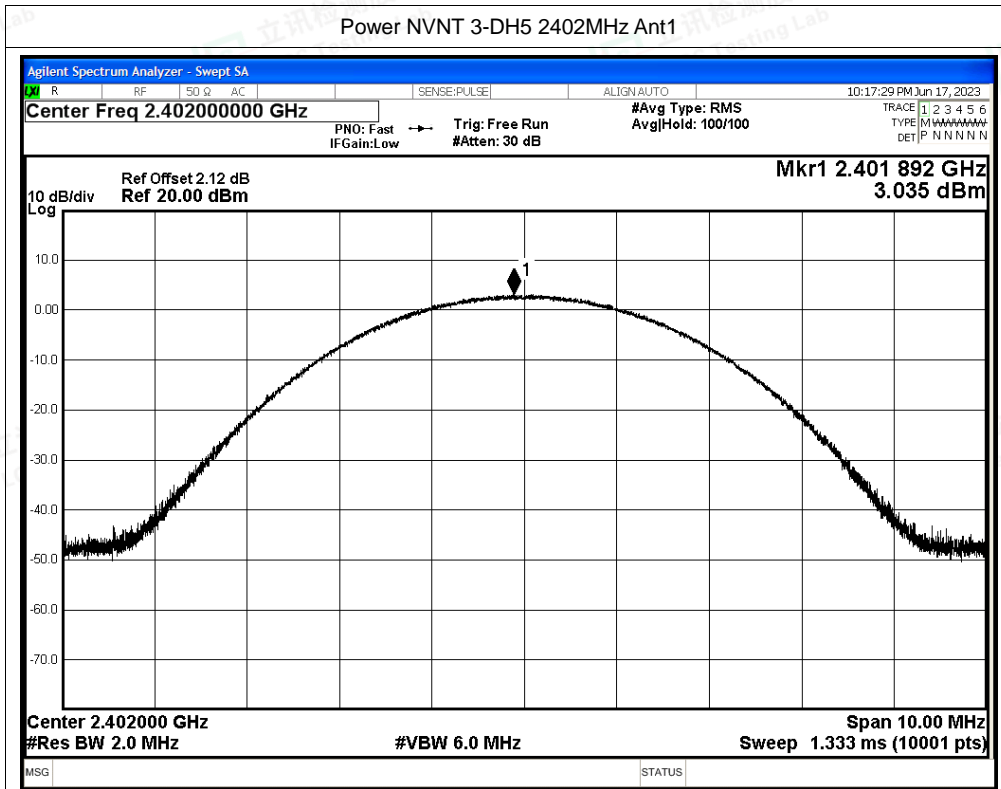


Power NVNT 2-DH5 2480MHz Ant1

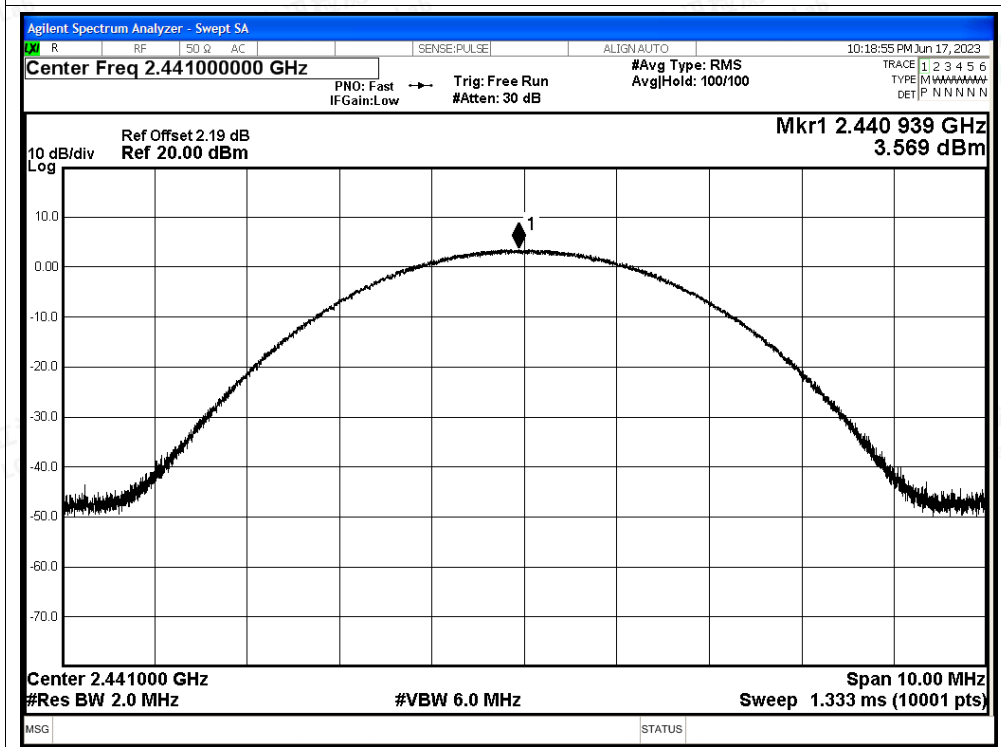




Power NVNT 3-DH5 2402MHz Ant1



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	2402.15	2403	0.85	0.685	Pass
NVNT	2-DH5	Ant1	2402.152	2403.152	1	0.859	Pass
NVNT	3-DH5	Ant1	2401.984	2403.156	1.172	0.867	Pass

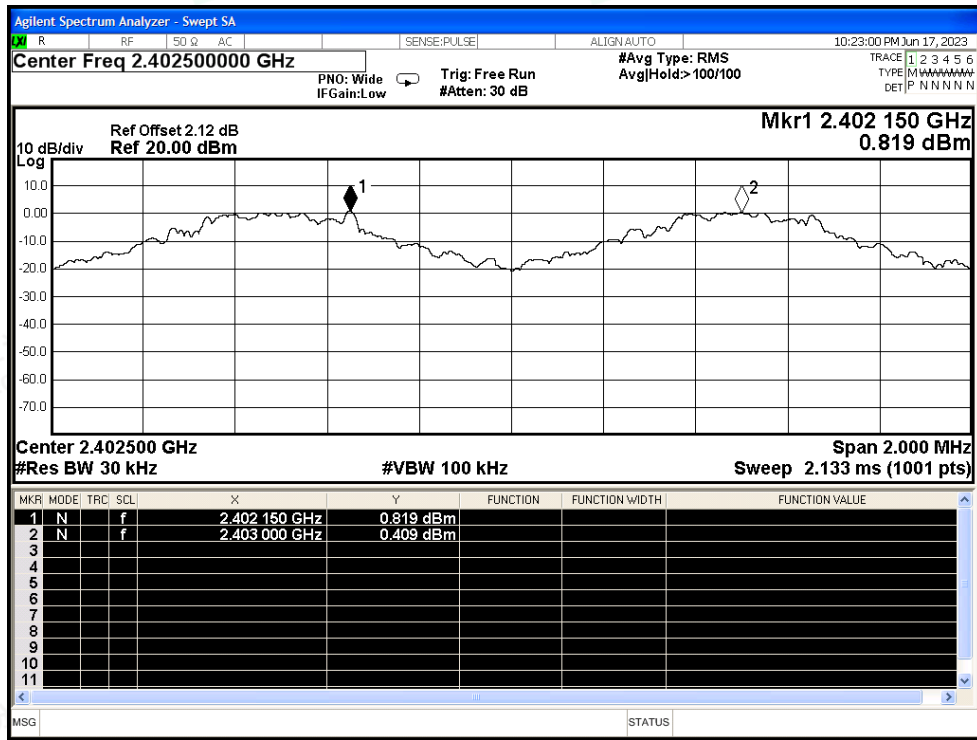


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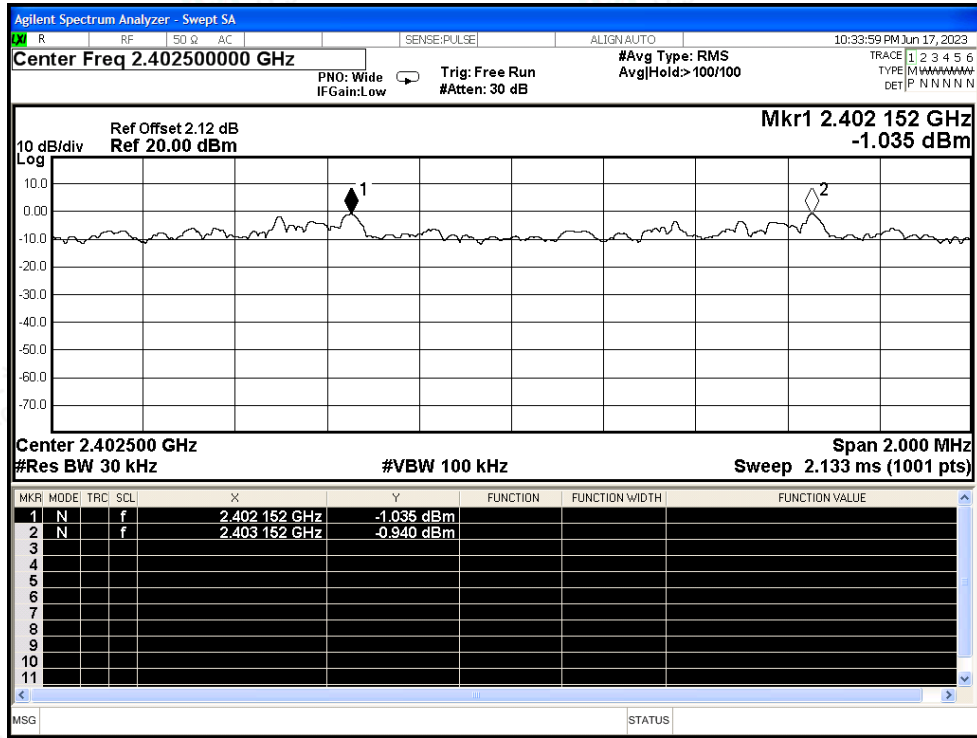


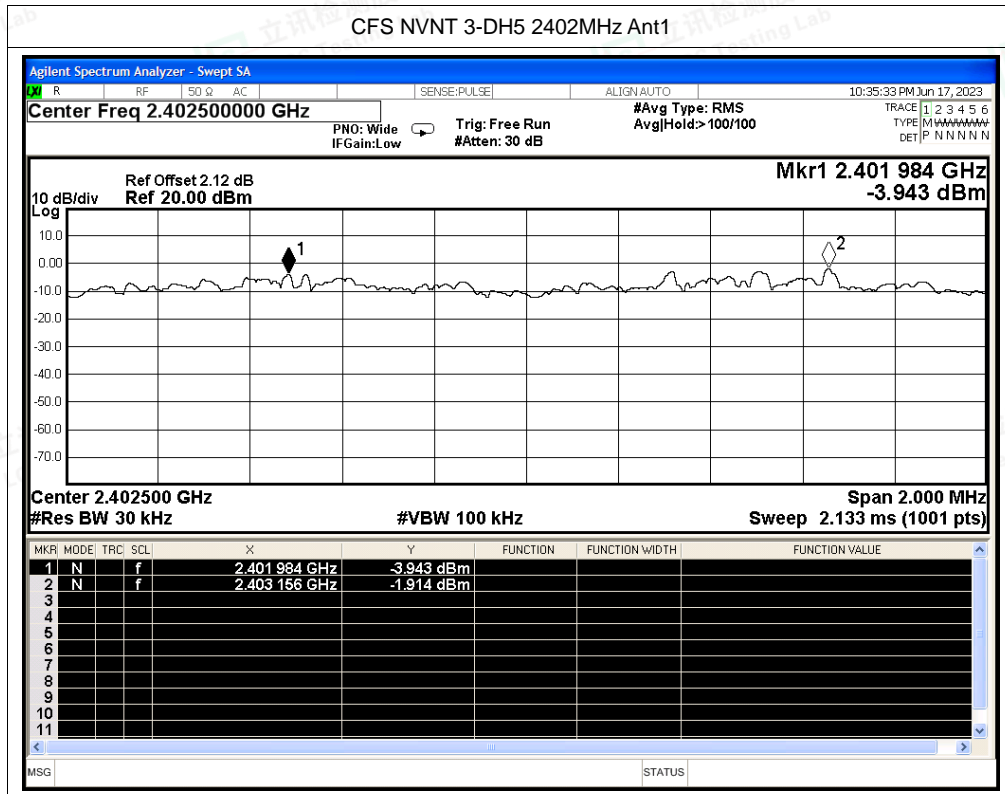
Test Graphs

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	2.881	282.338	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	267.84	93	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	297.361	103	31600	400	Pass

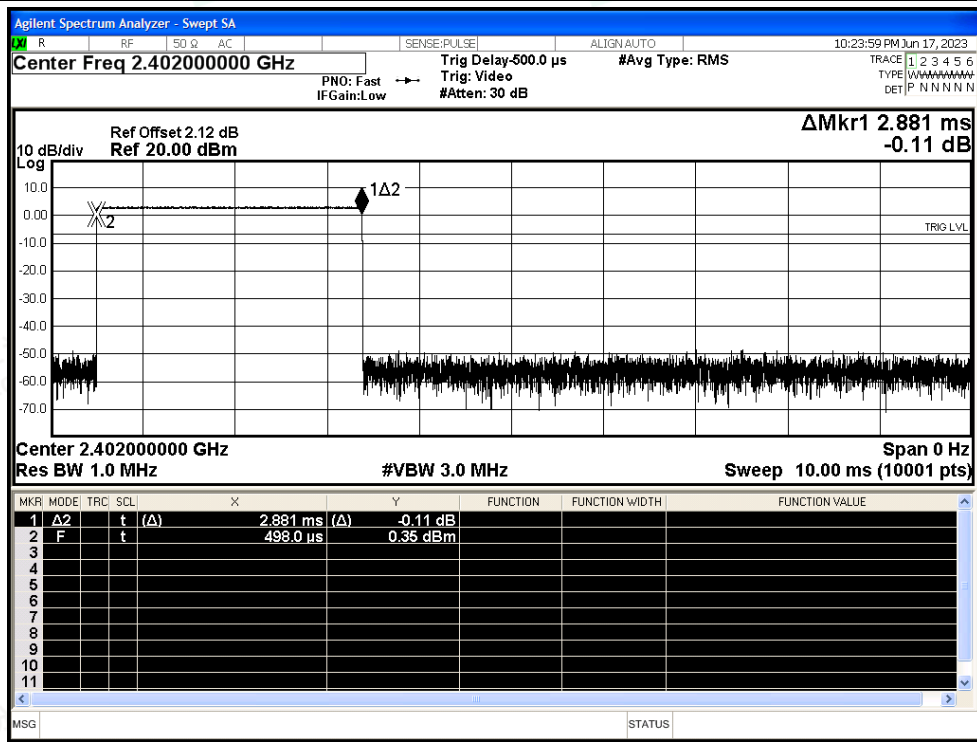


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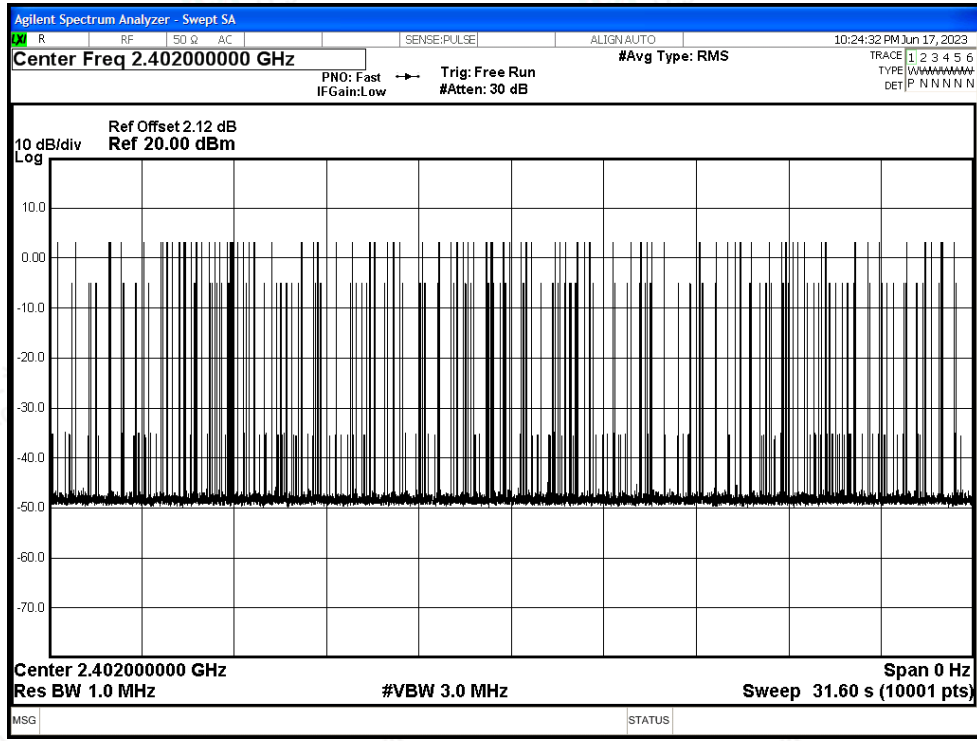


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

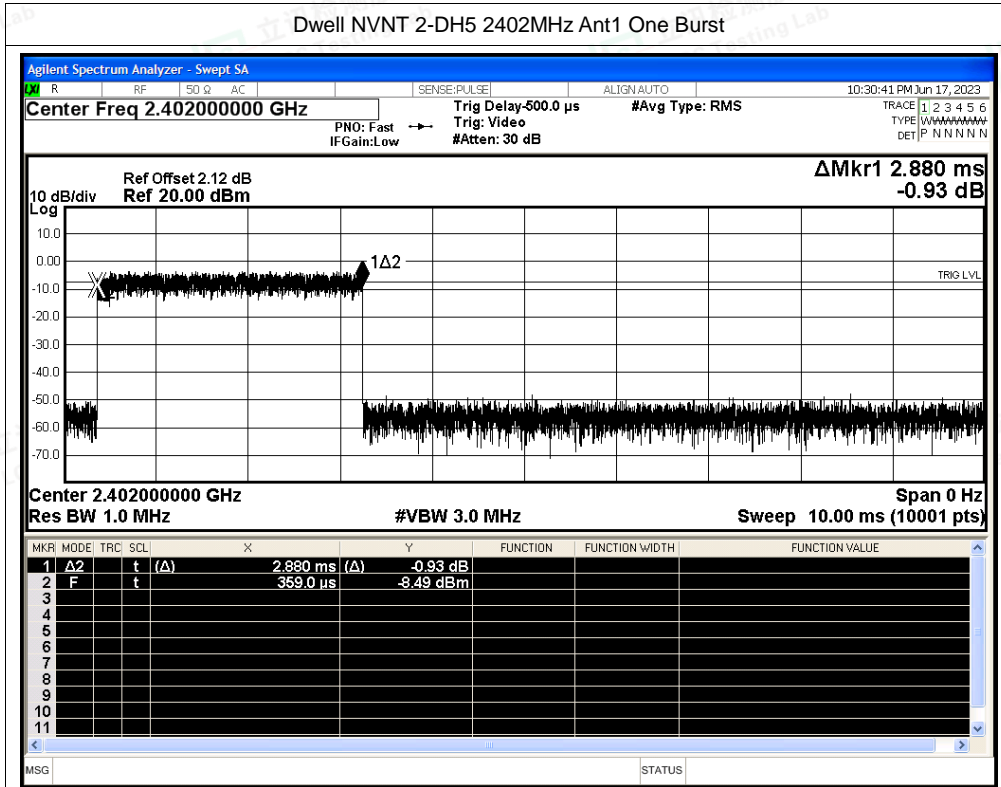


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

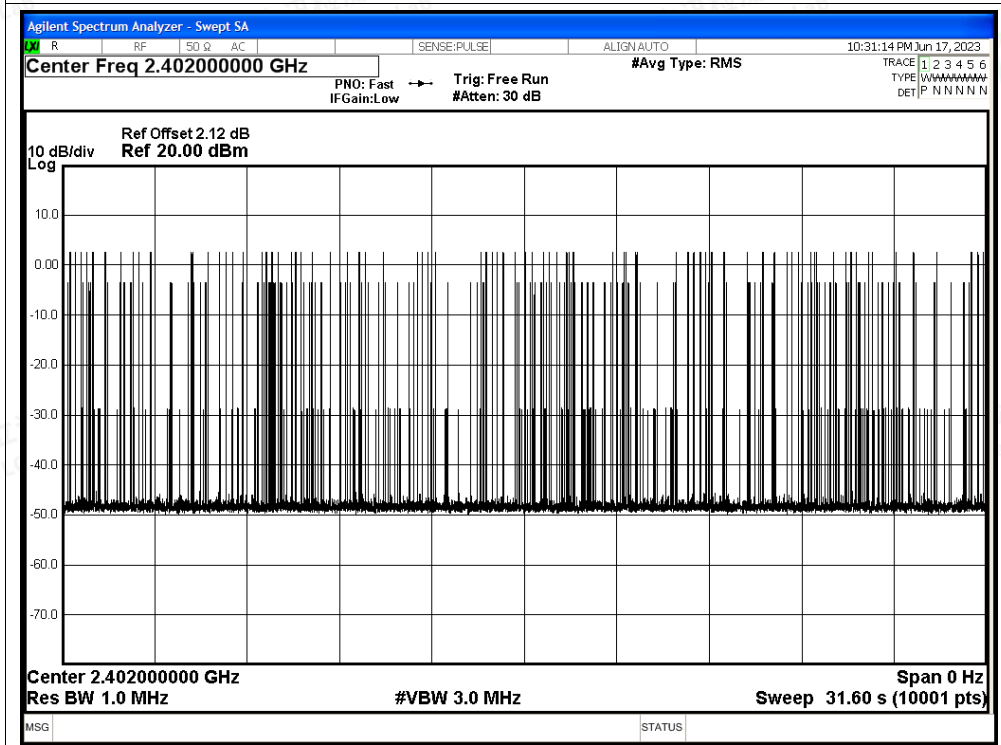




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

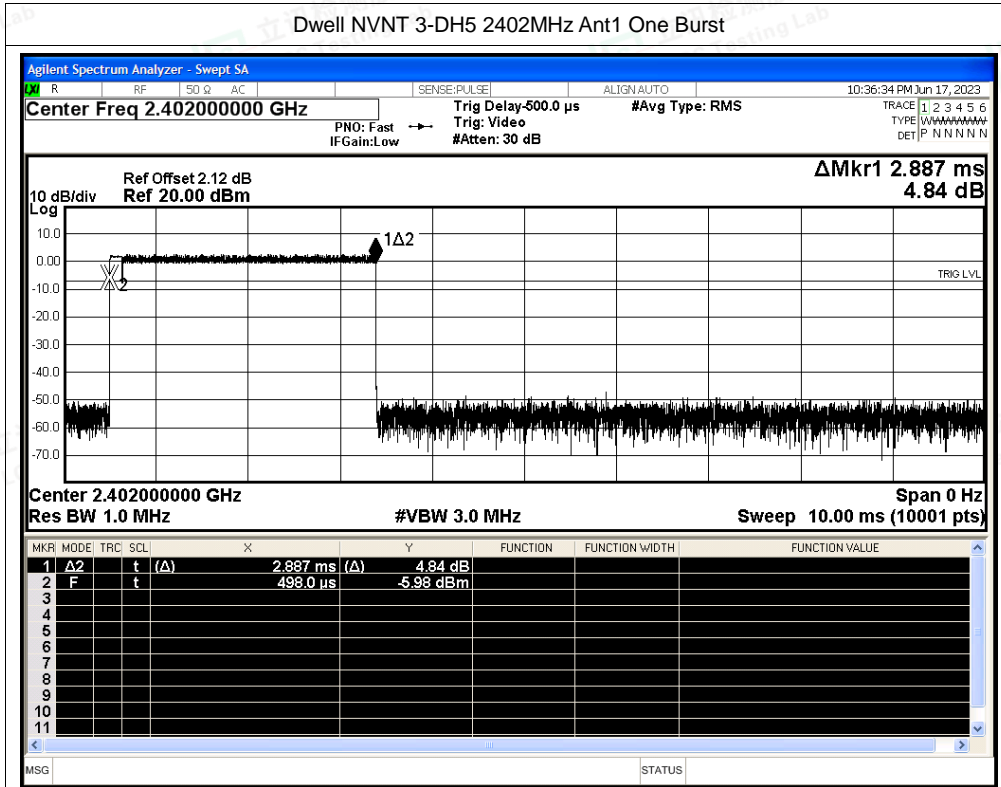


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

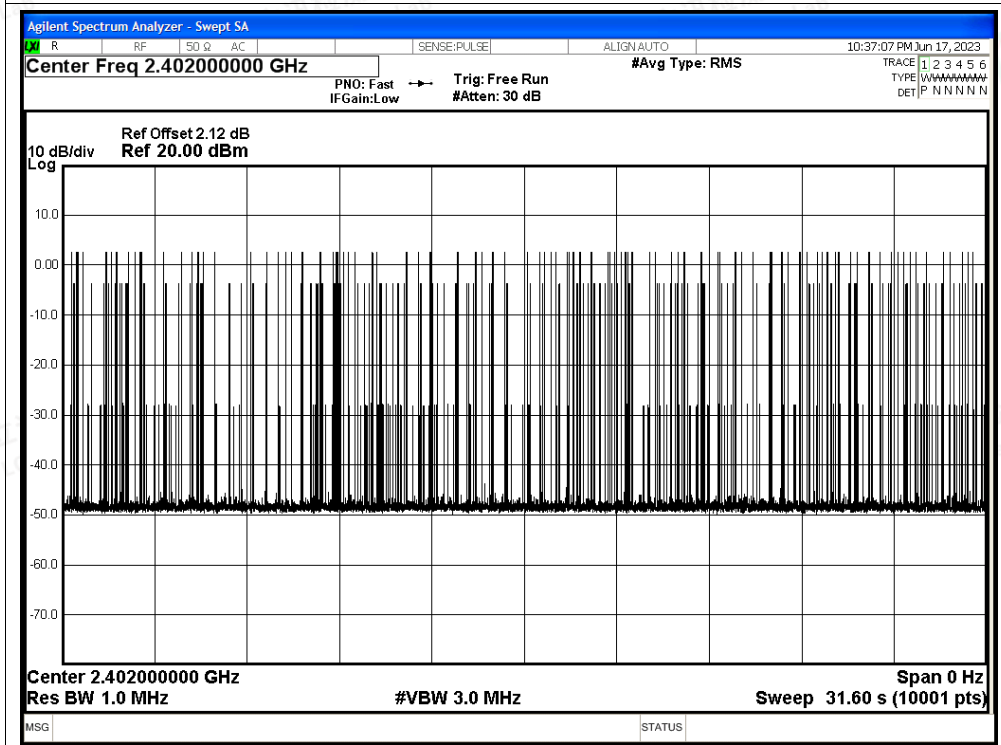




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

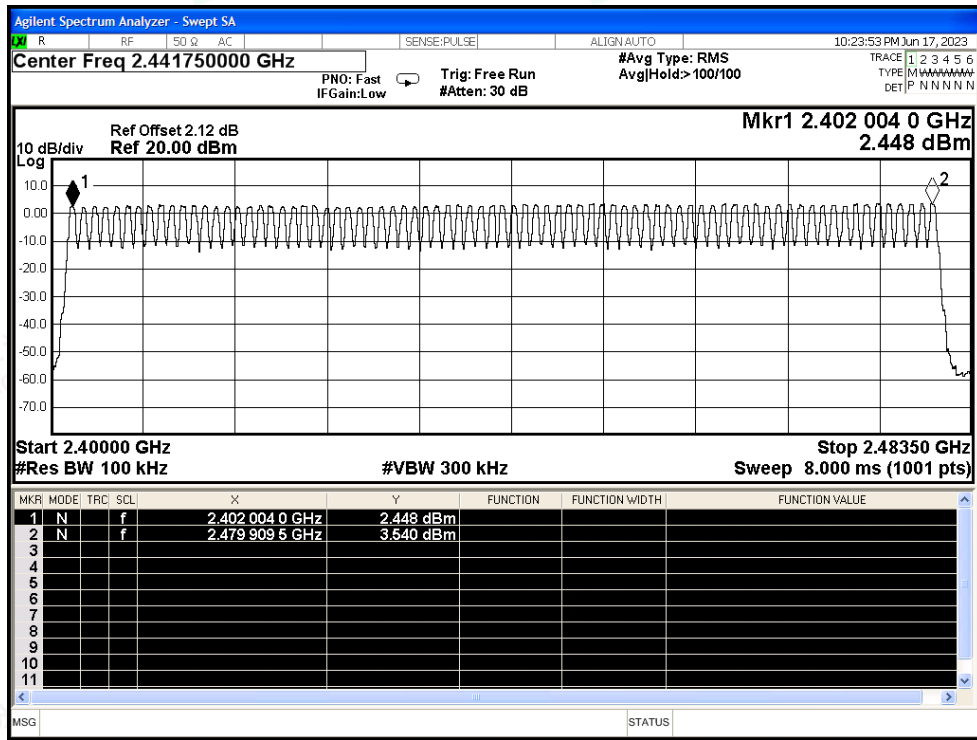


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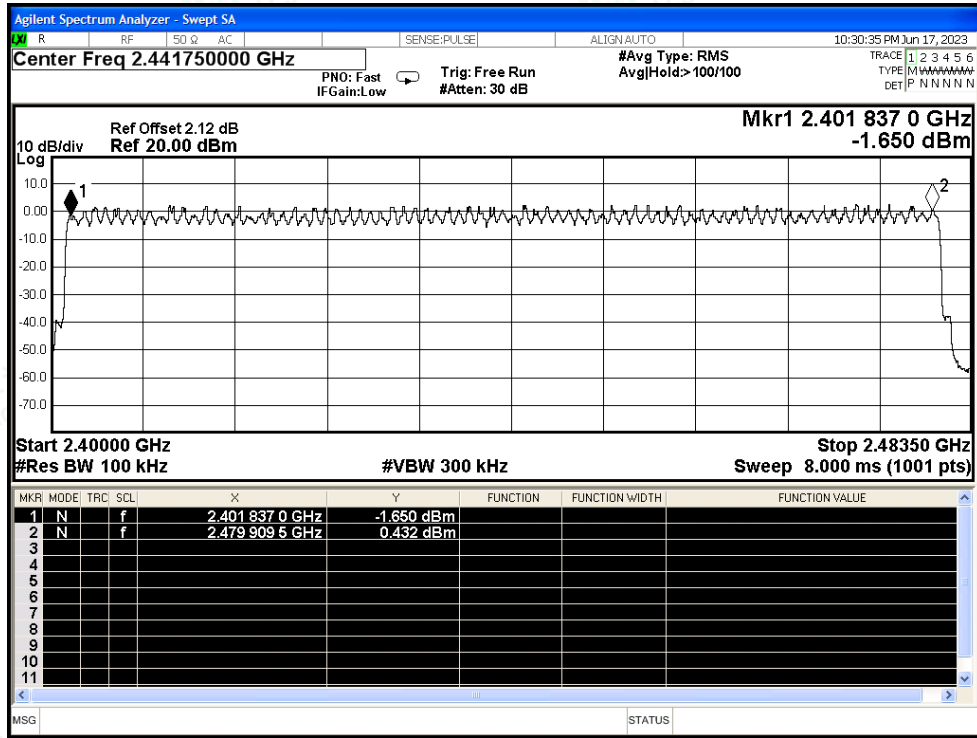


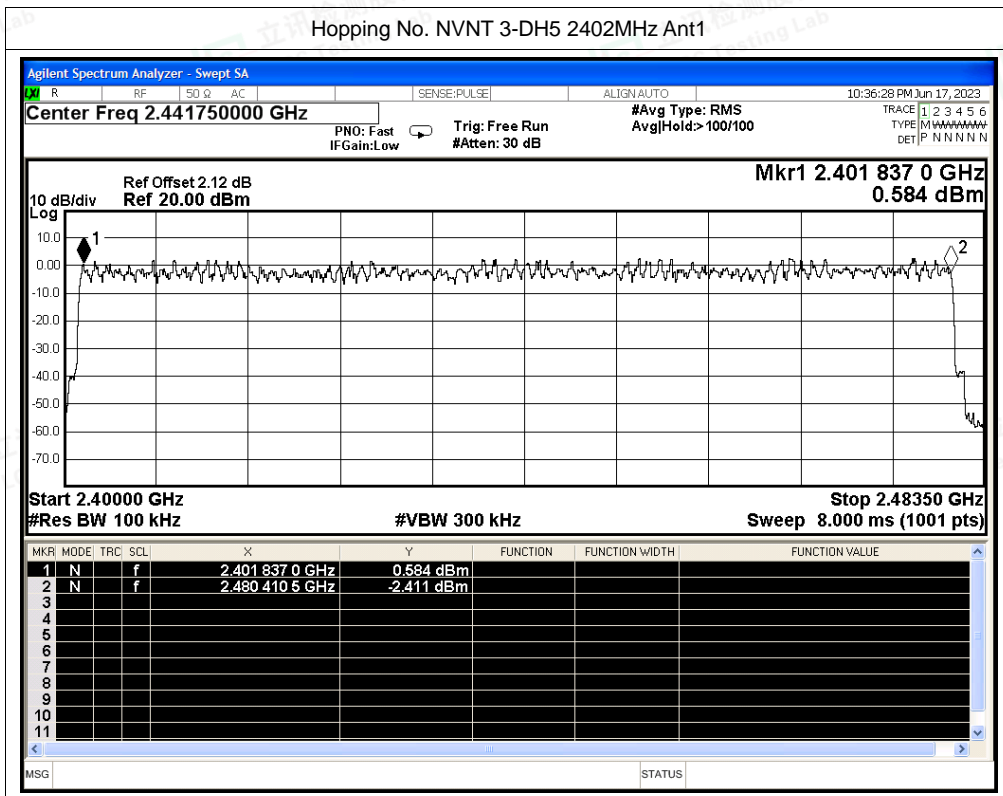
Test Graphs

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	-59.72	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.19	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.82	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.11	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.3	-20	Pass

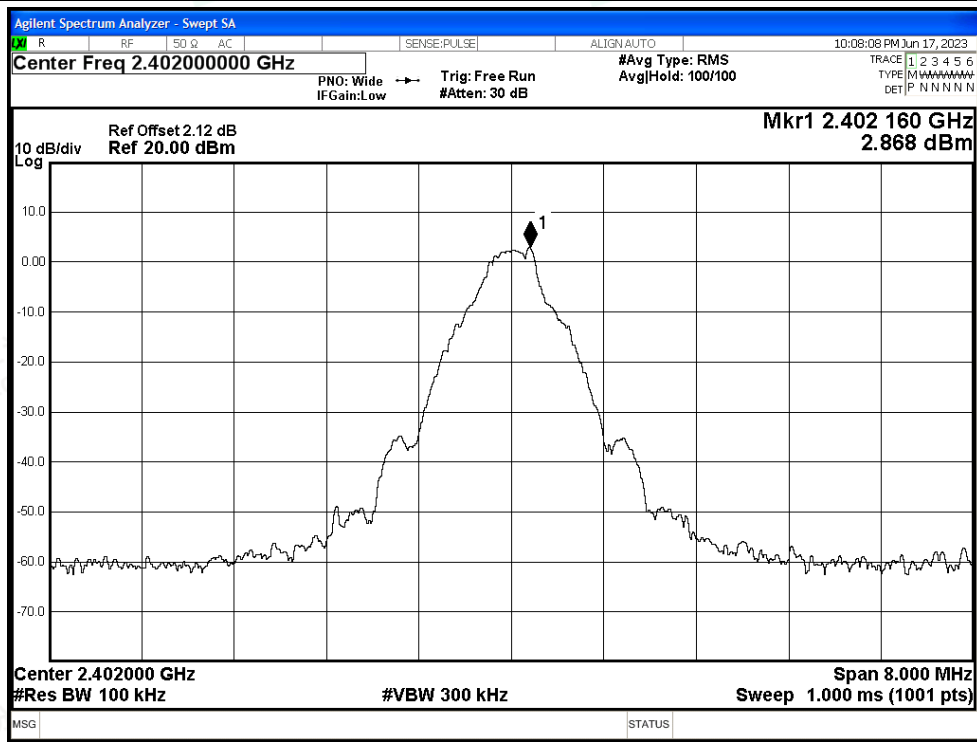


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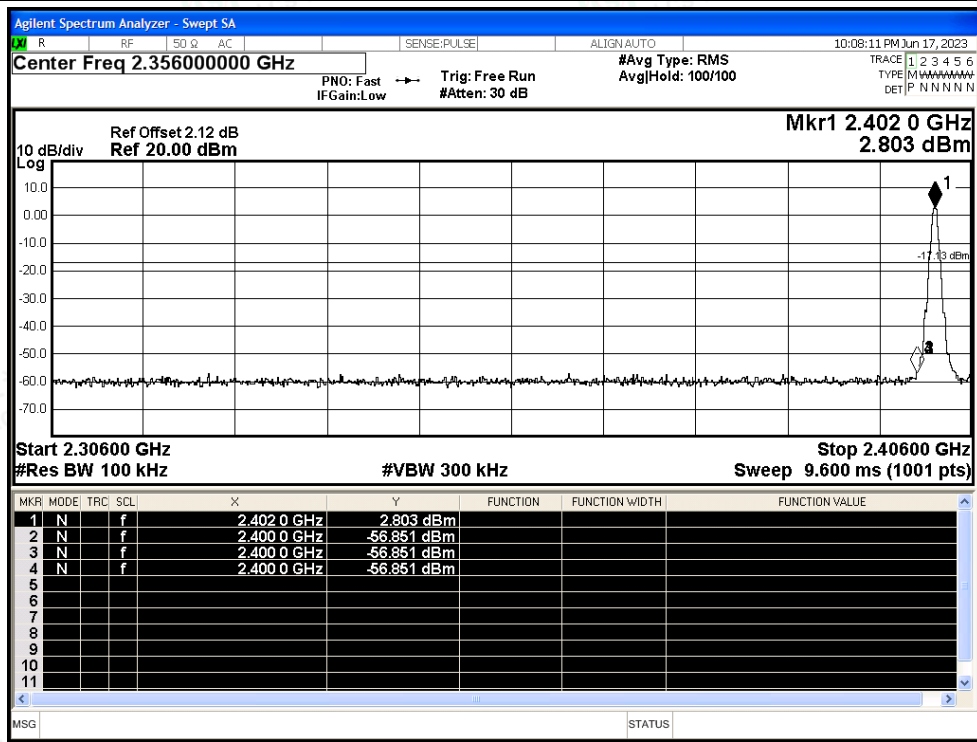


Test Graphs

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

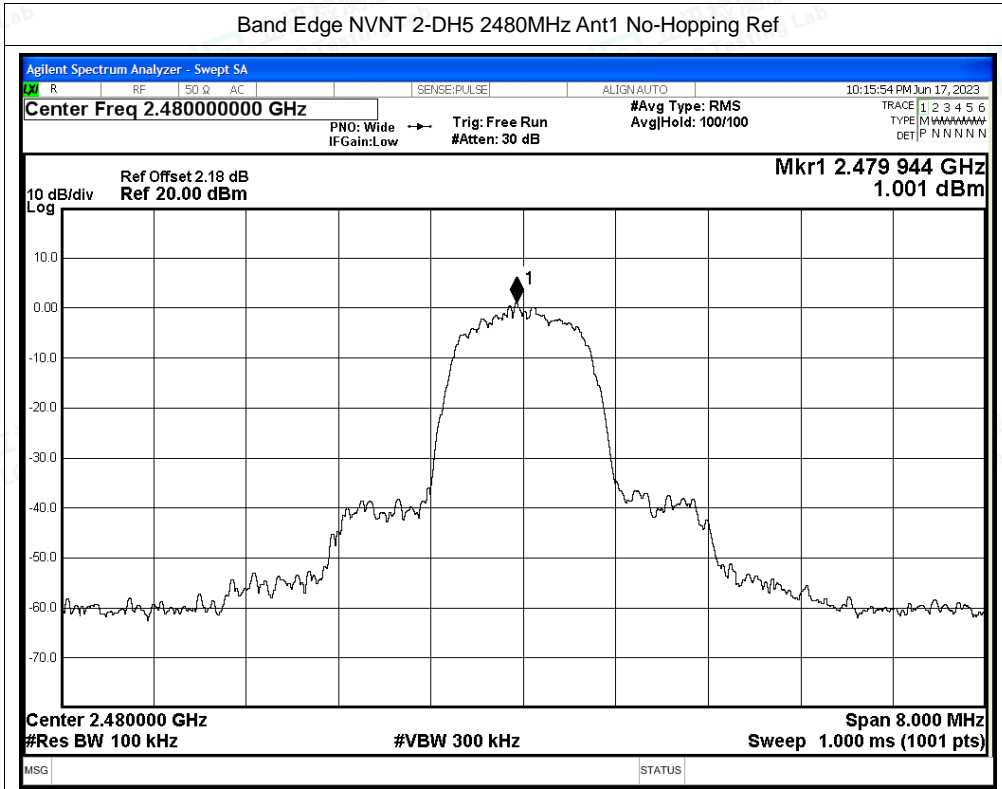


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

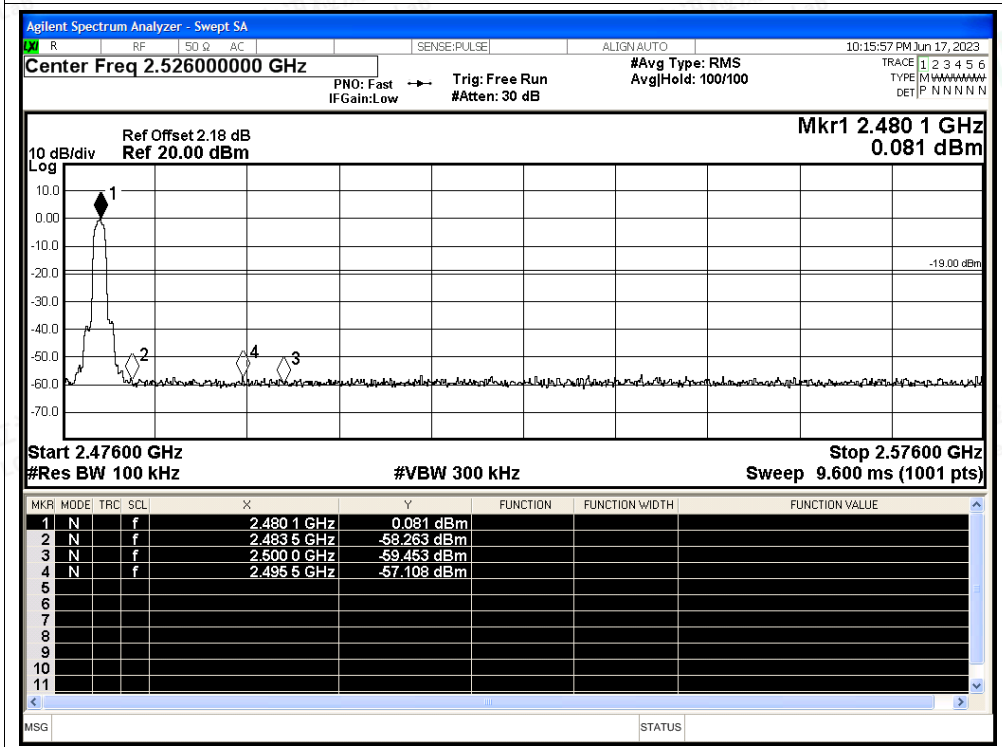




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

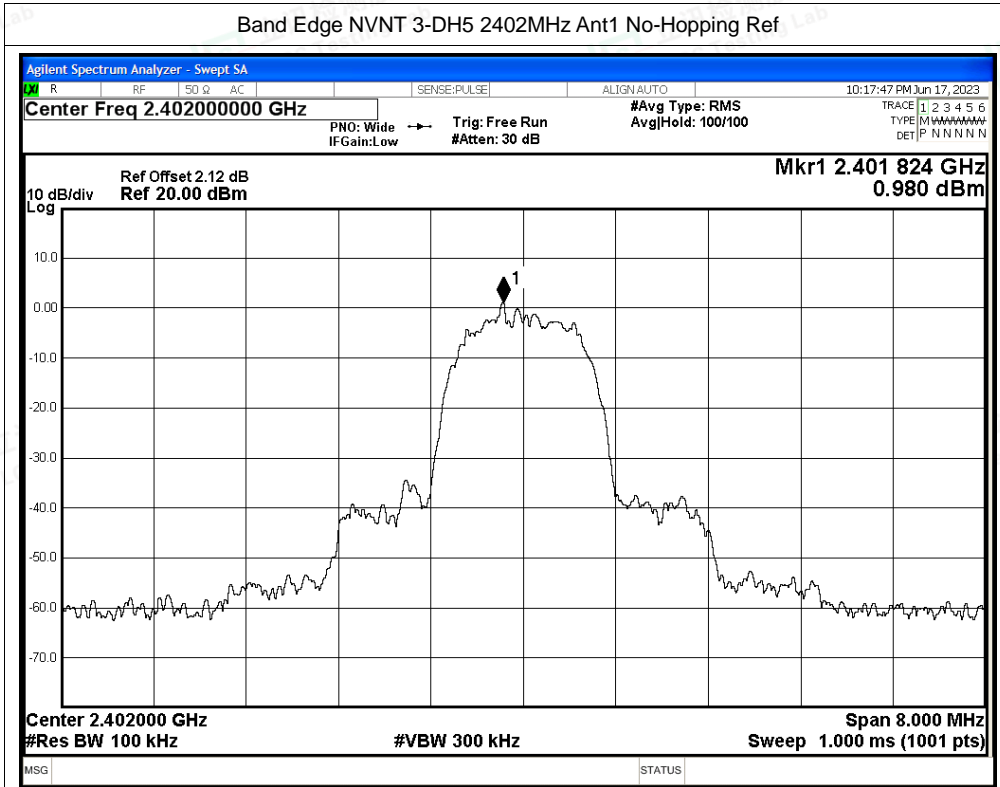


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

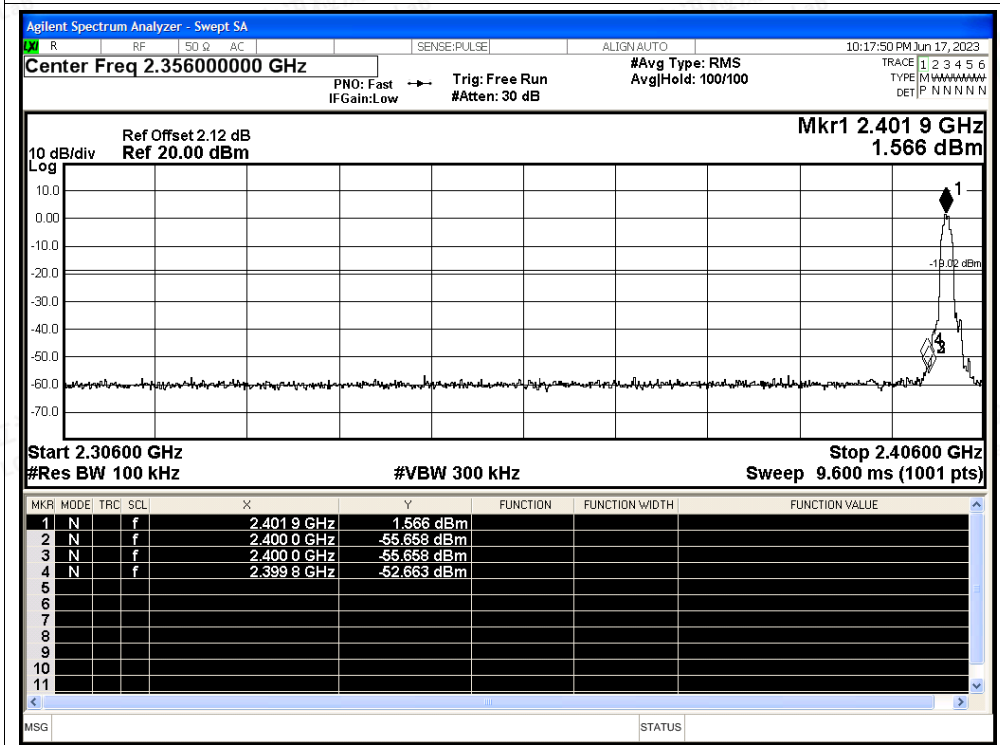




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.28	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.4	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.42	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.36	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.17	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.1	-20	Pass

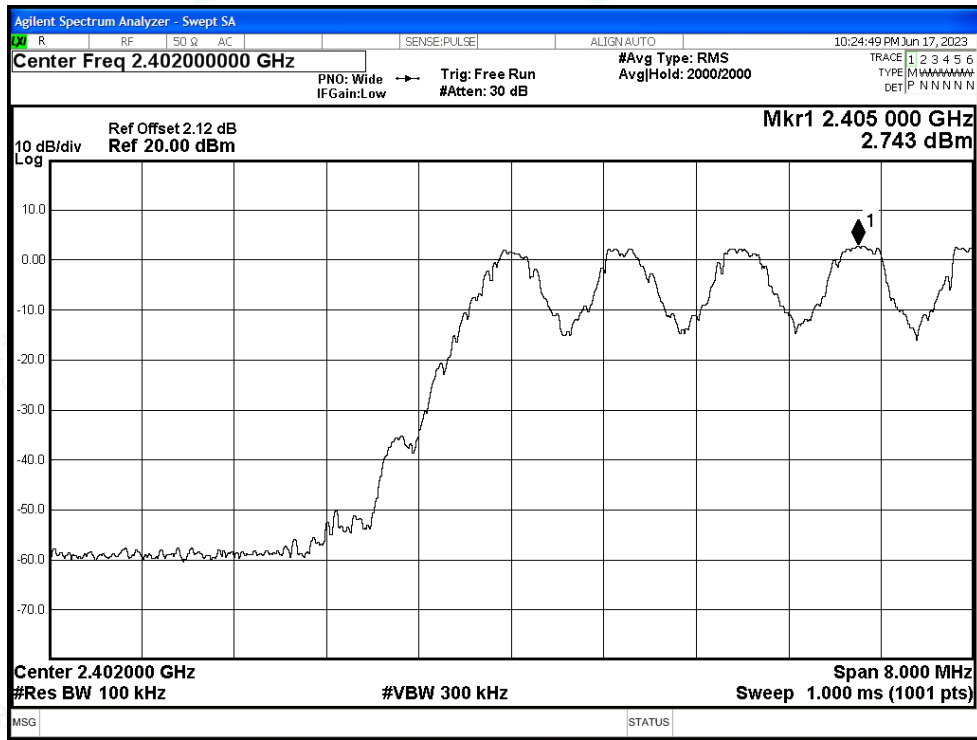


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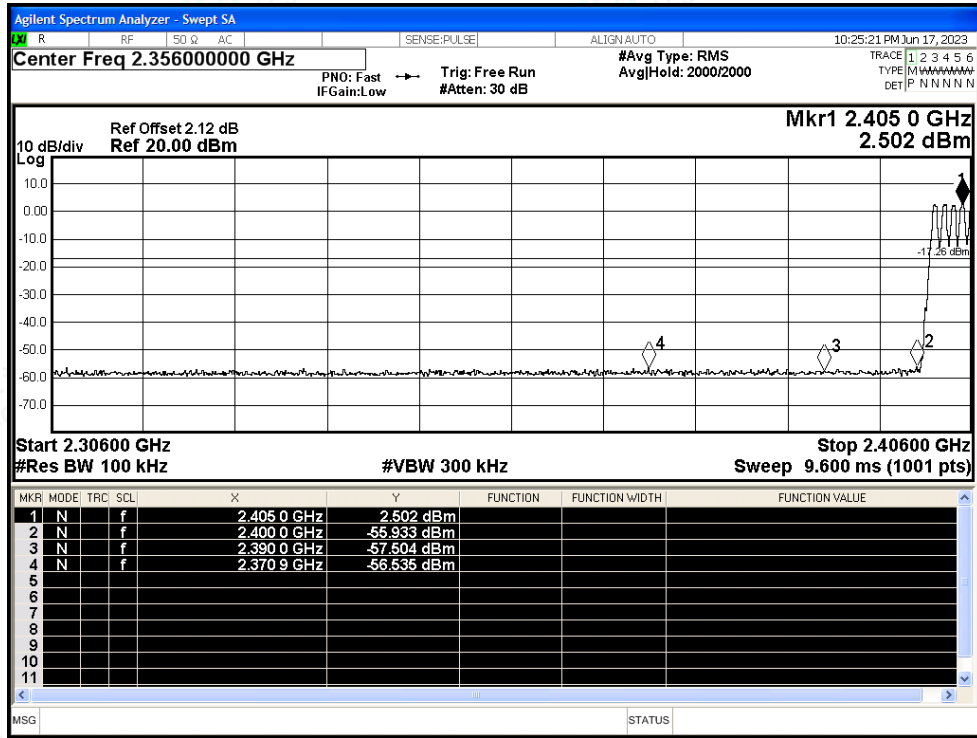


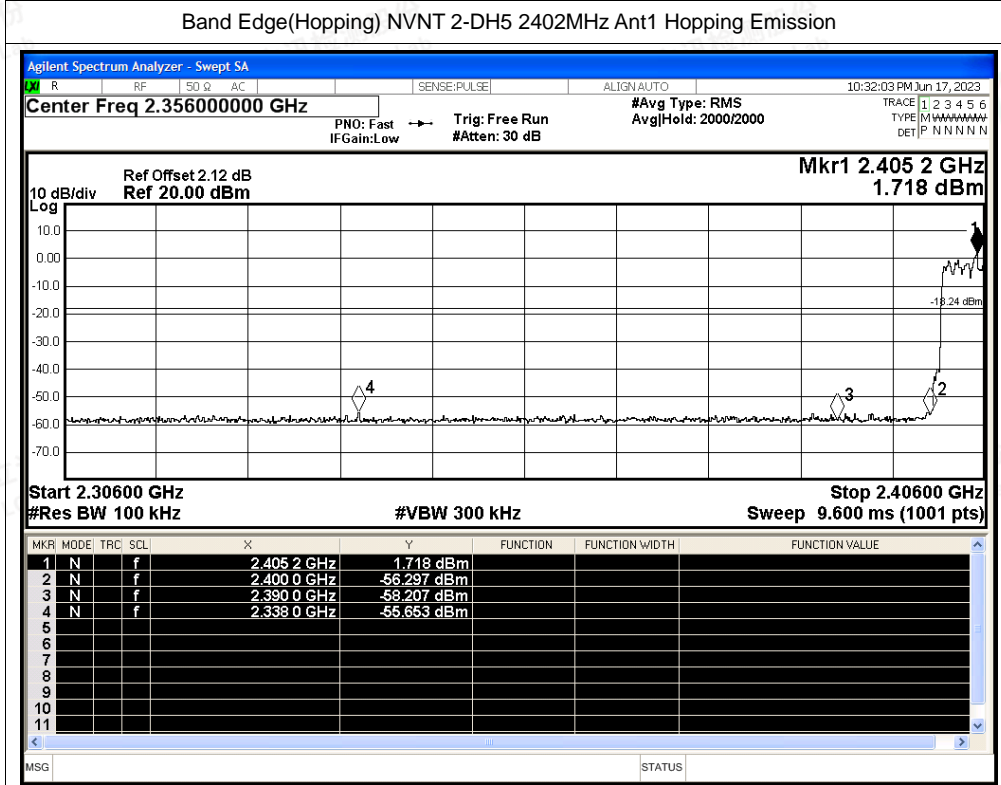
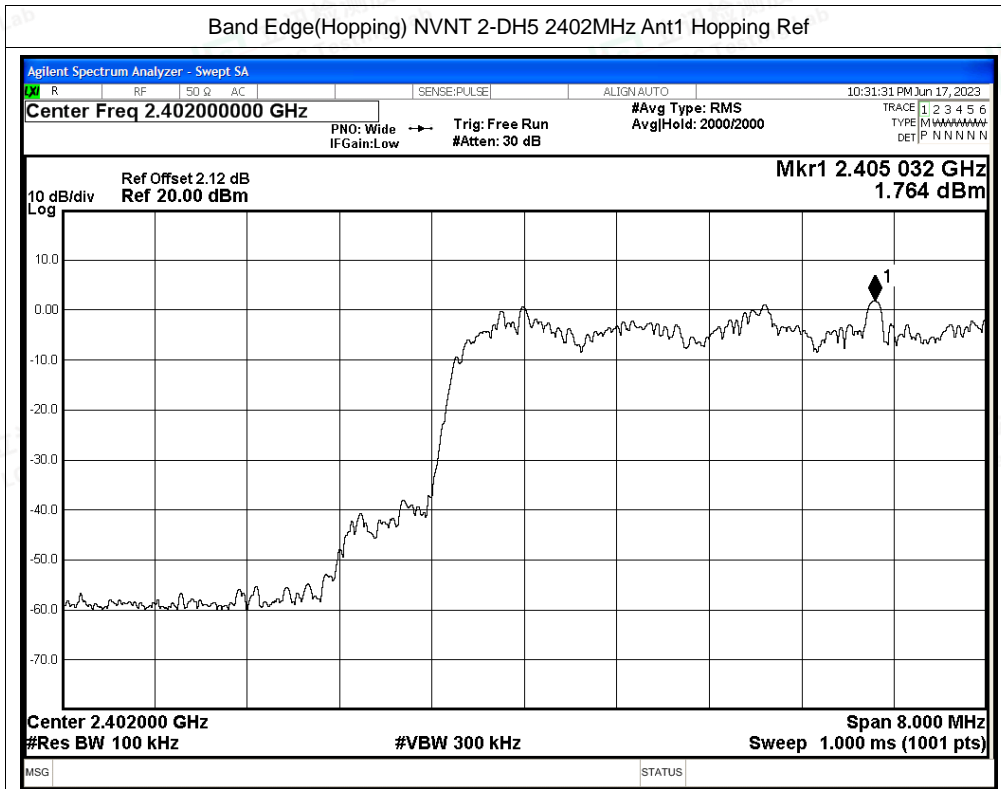
Test Graphs

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



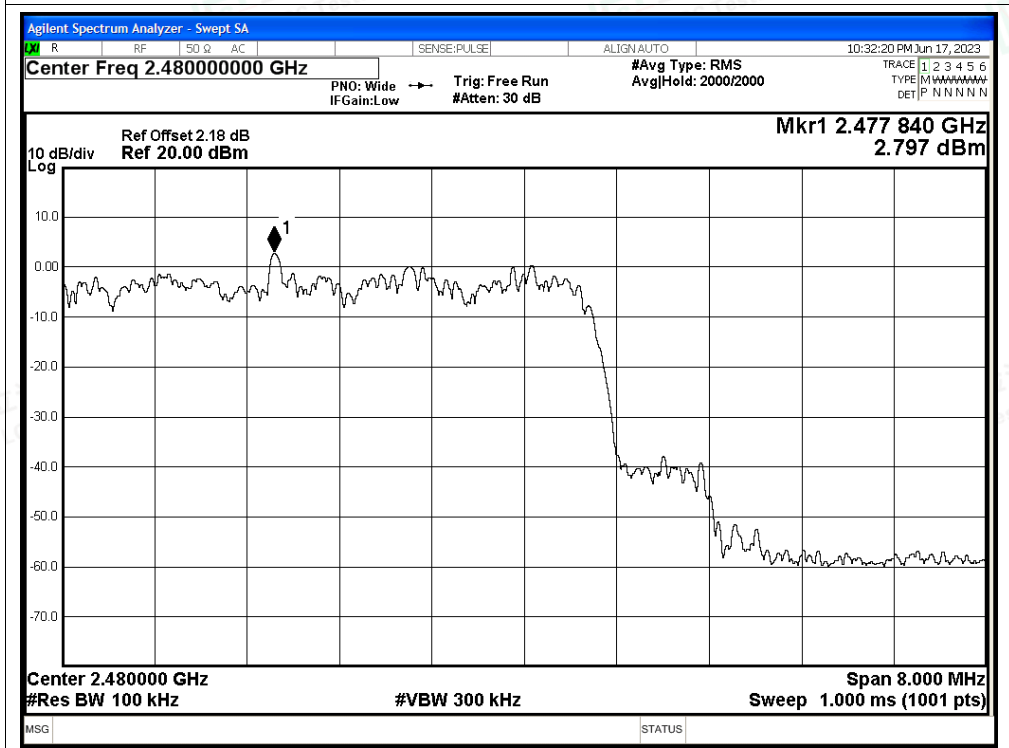
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



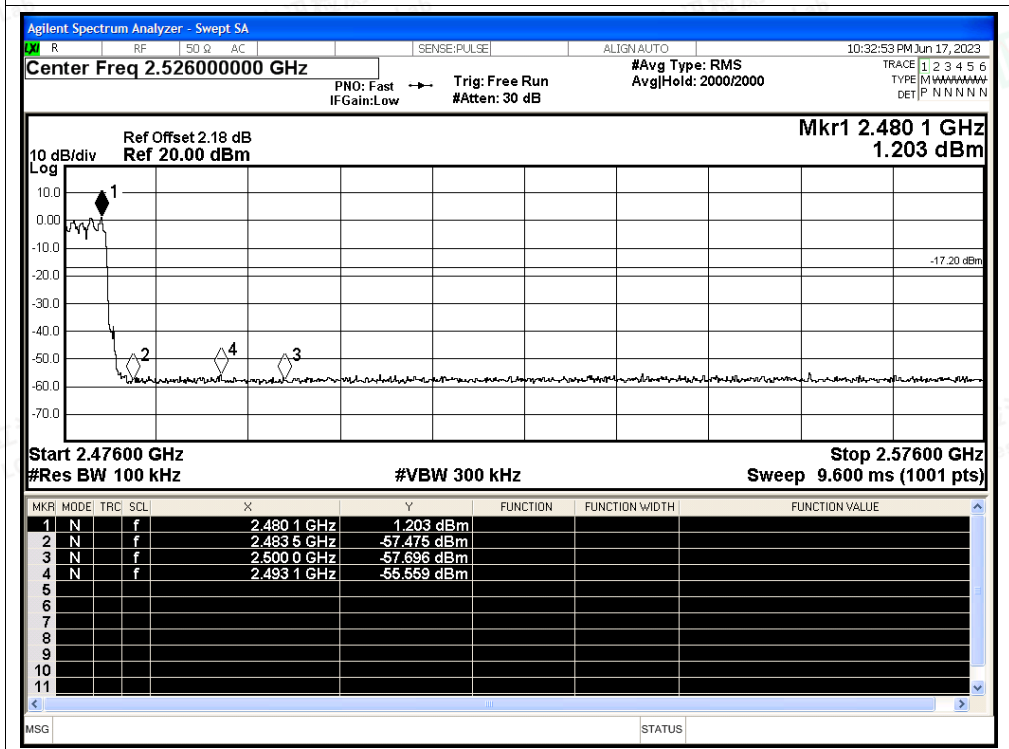


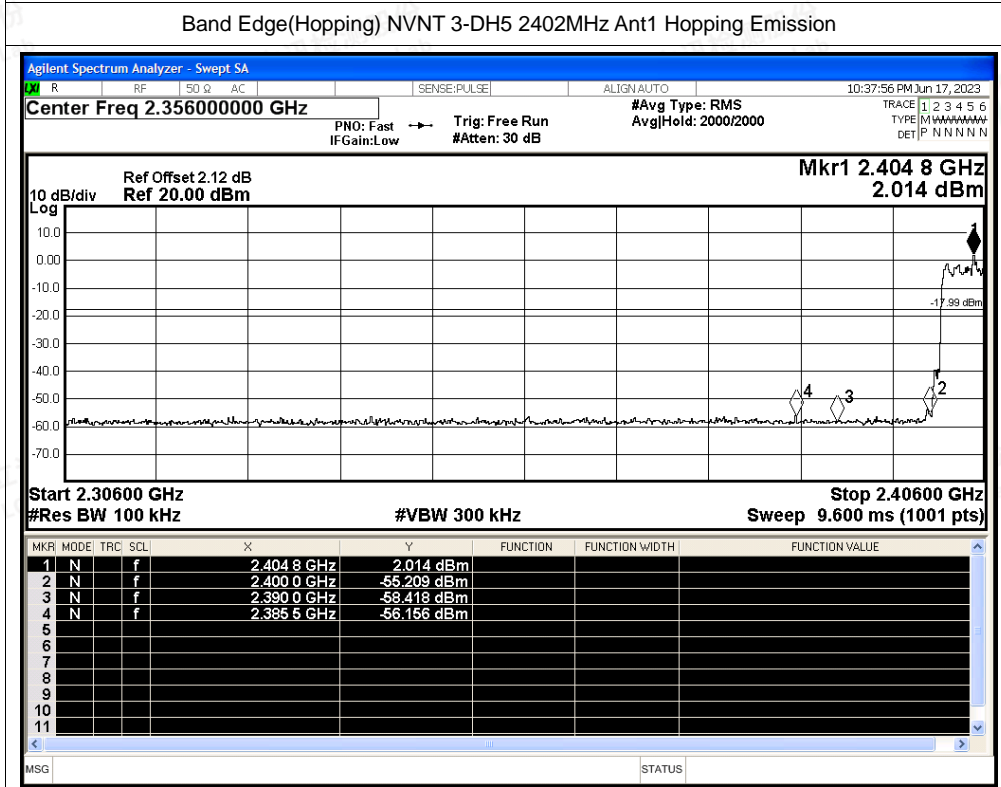
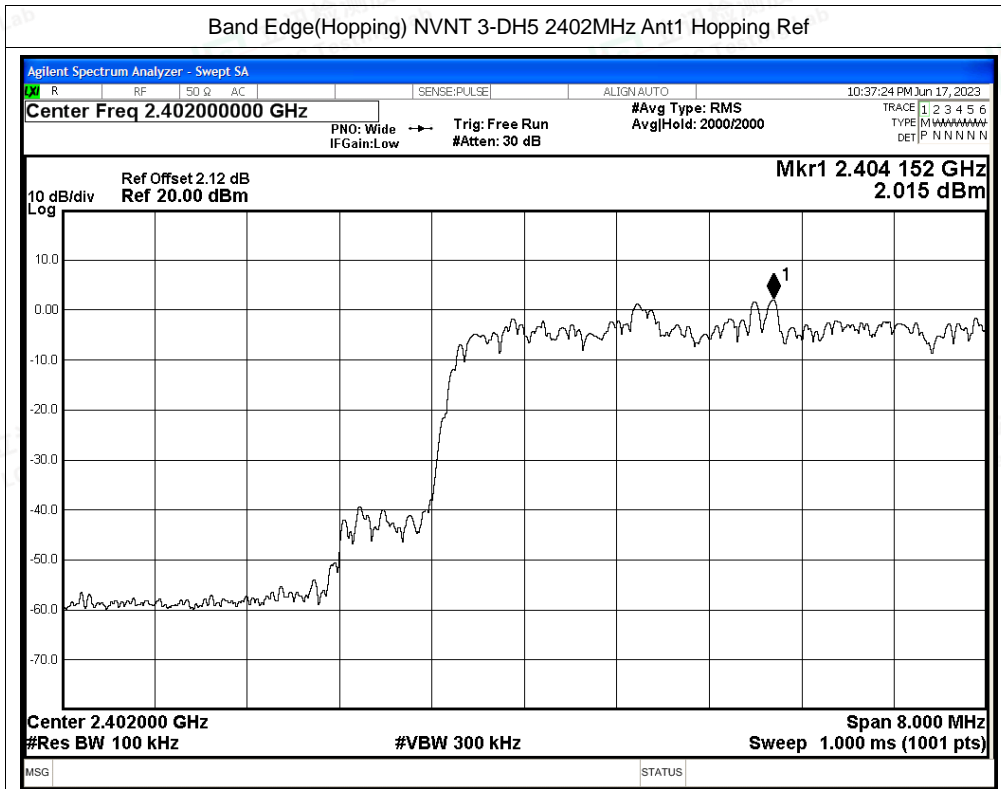


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



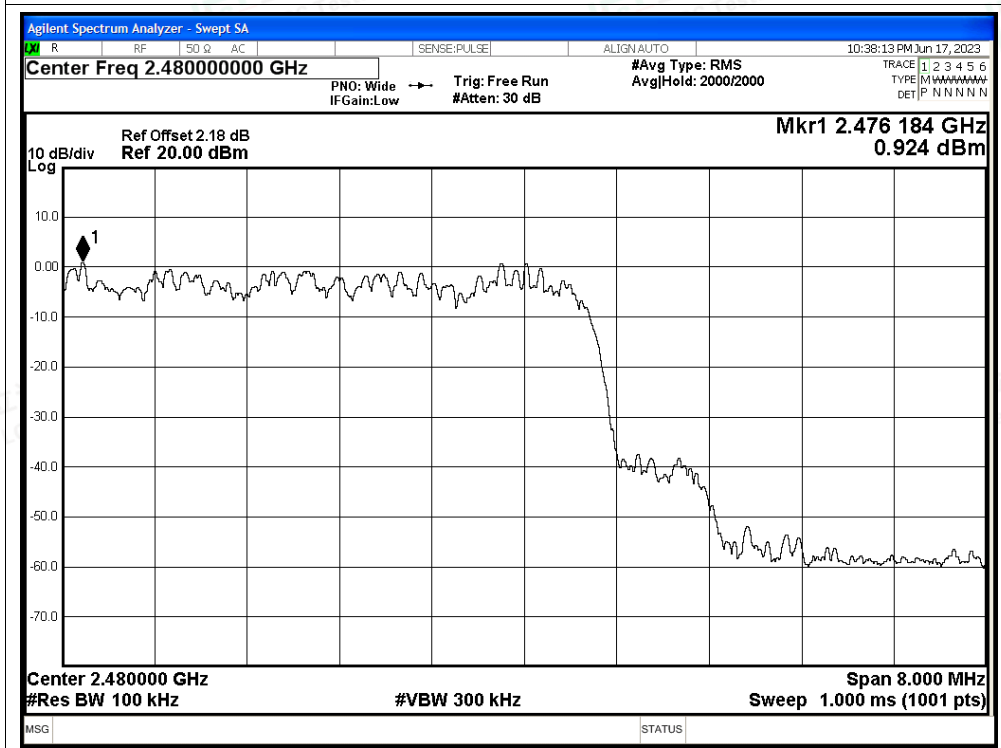
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



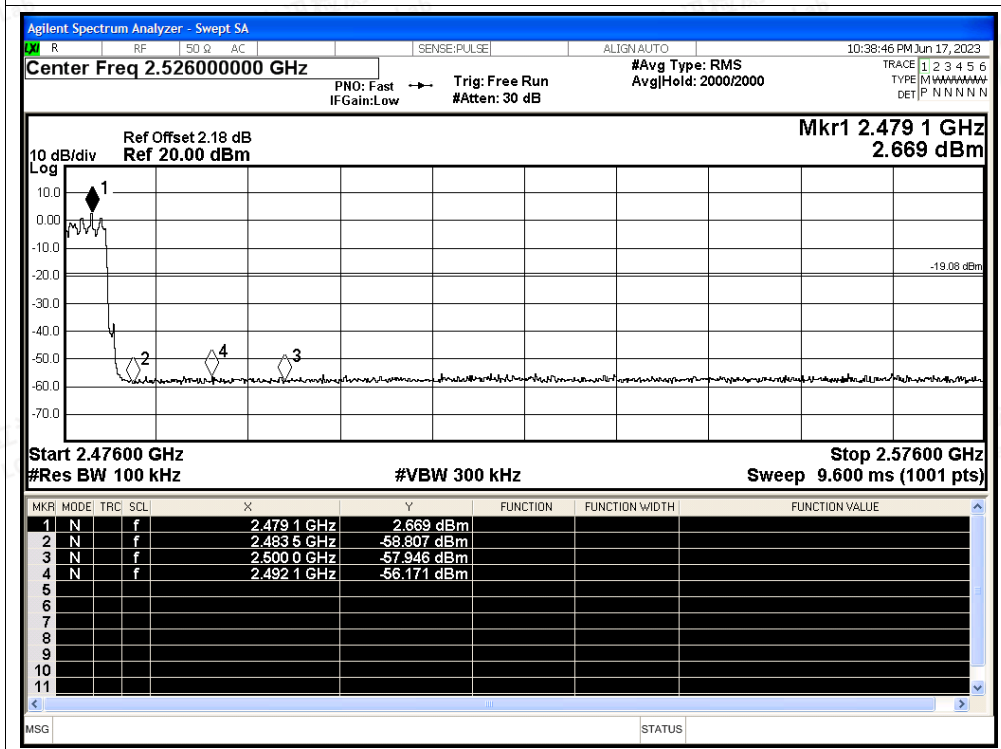




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.98	-20	Pass
NVNT	1-DH5	2441	Ant1	-49.36	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.84	-20	Pass
NVNT	2-DH5	2402	Ant1	-56.62	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.66	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.34	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.66	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.13	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.98	-20	Pass

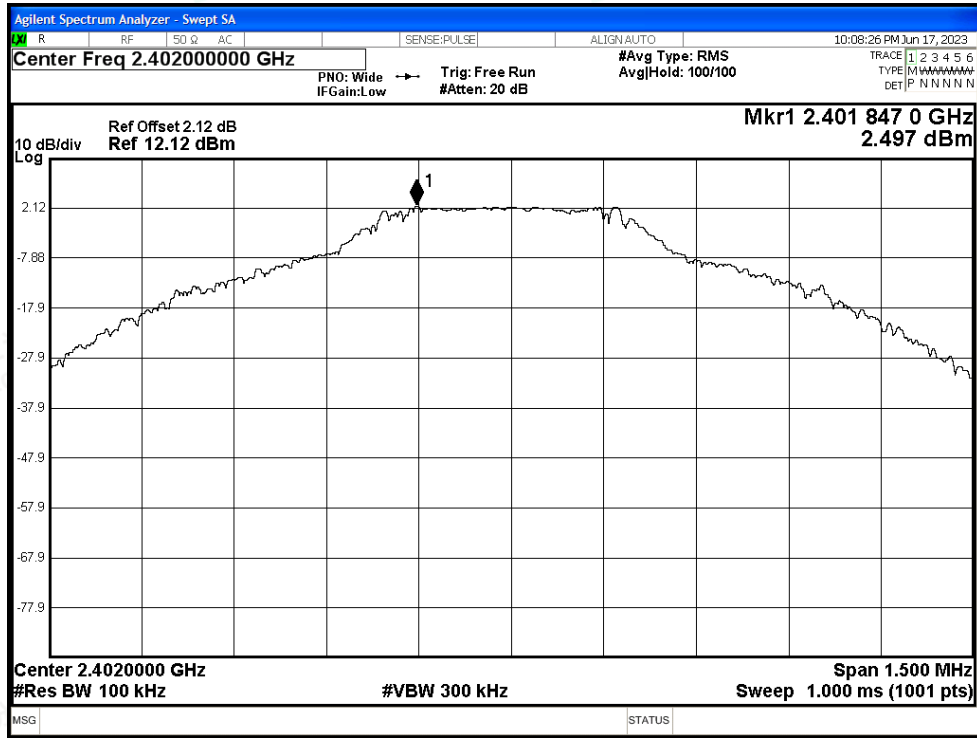


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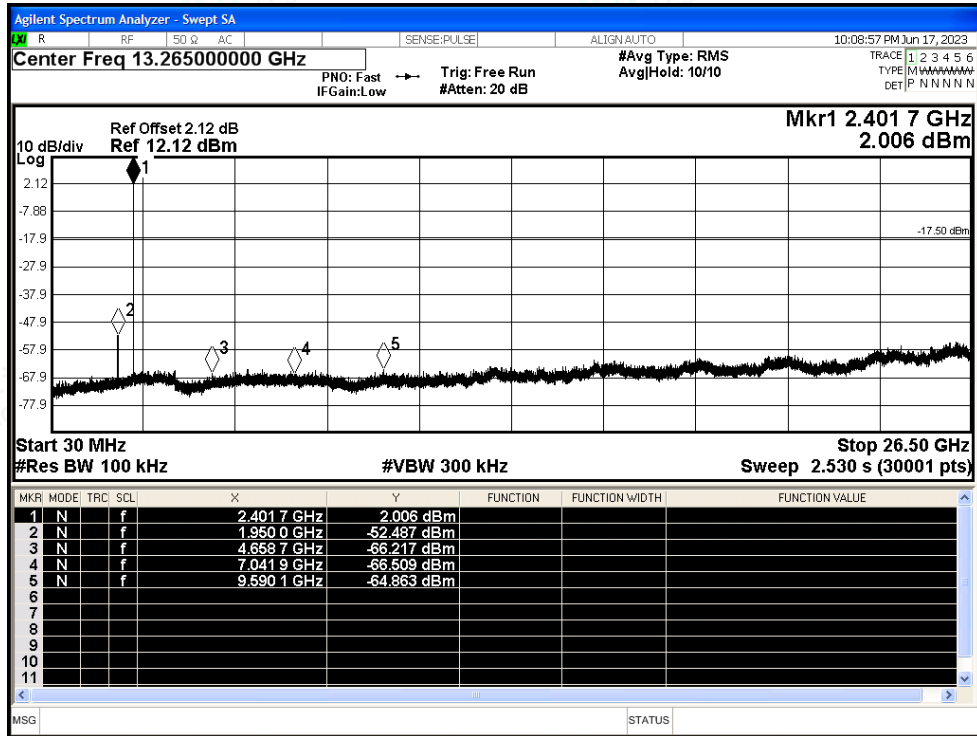


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

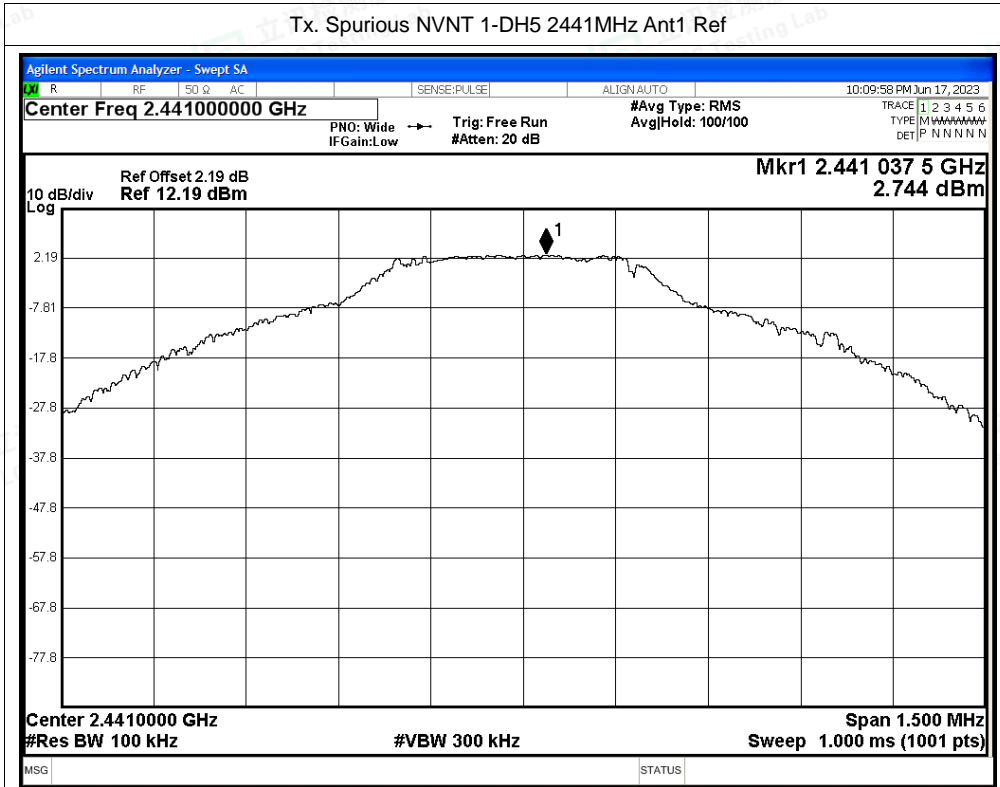


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

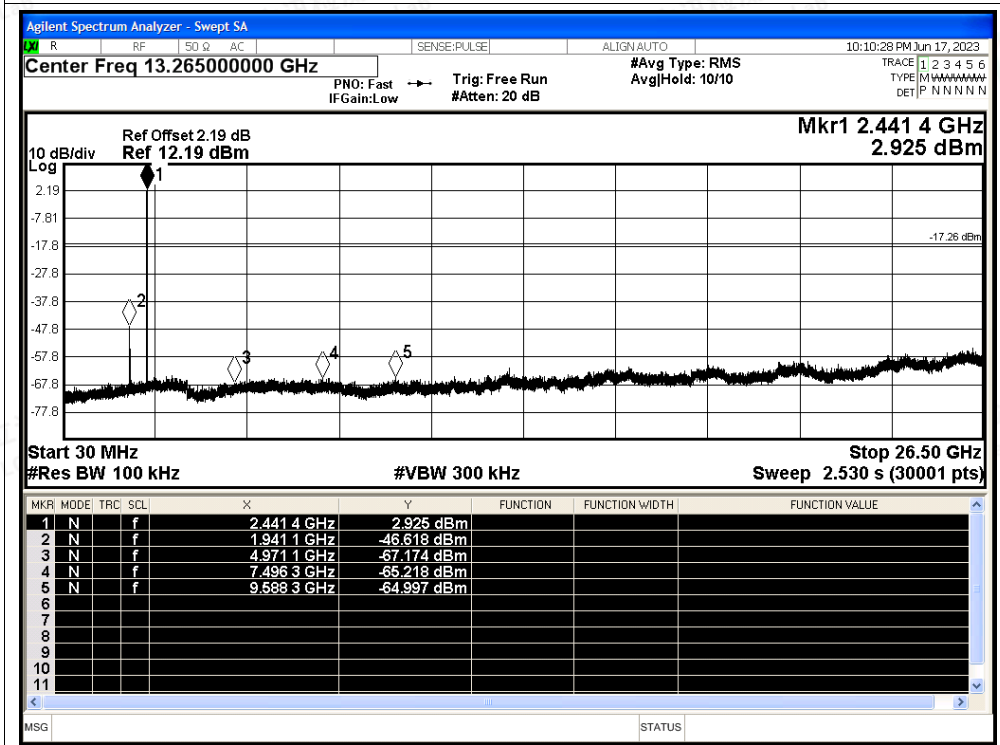




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

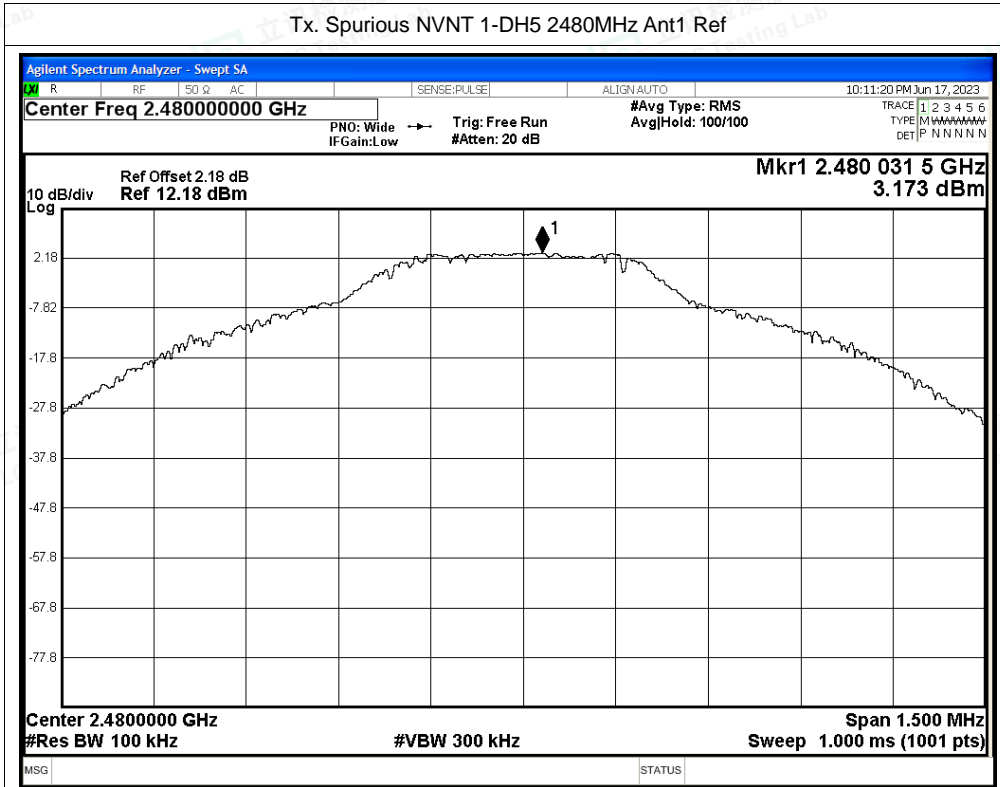


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

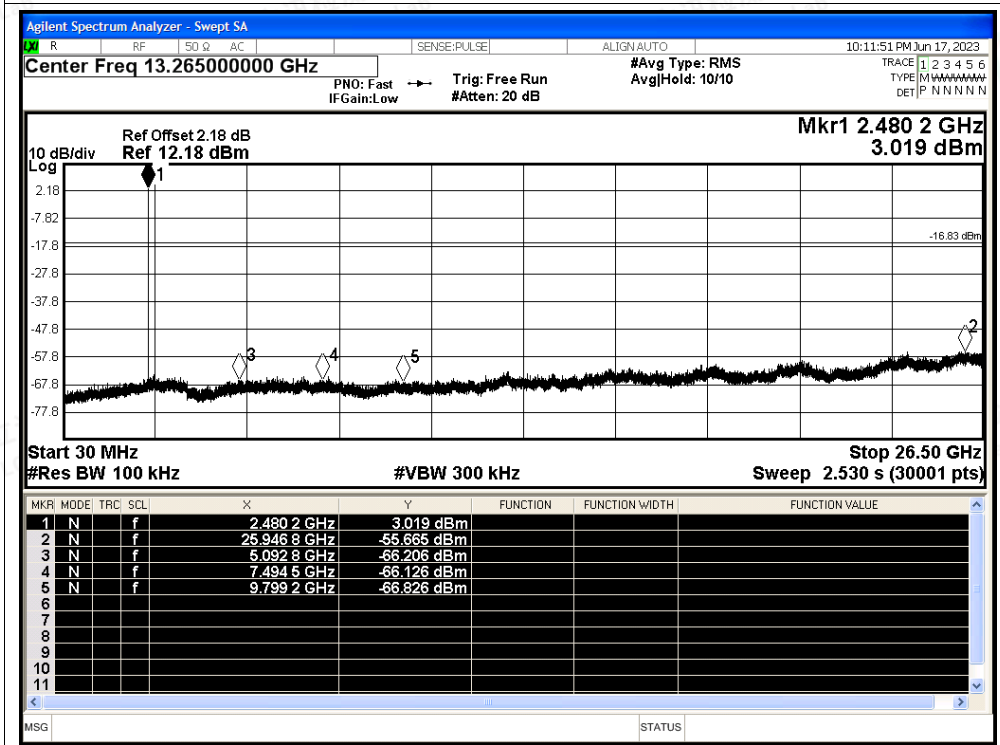




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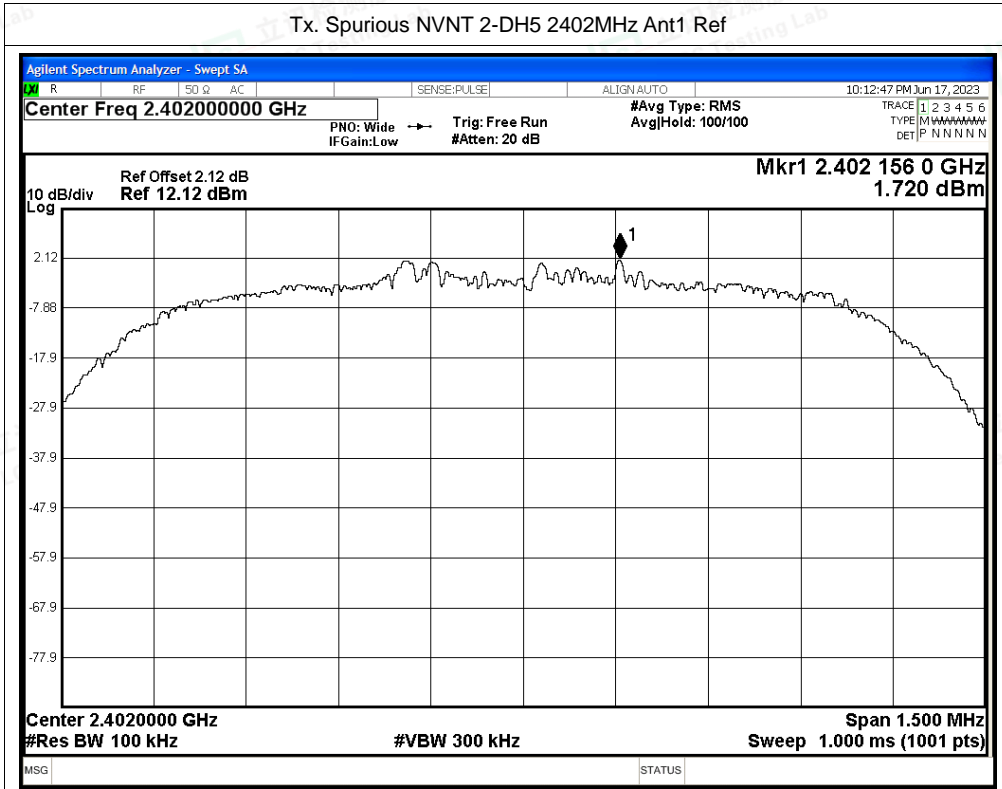


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

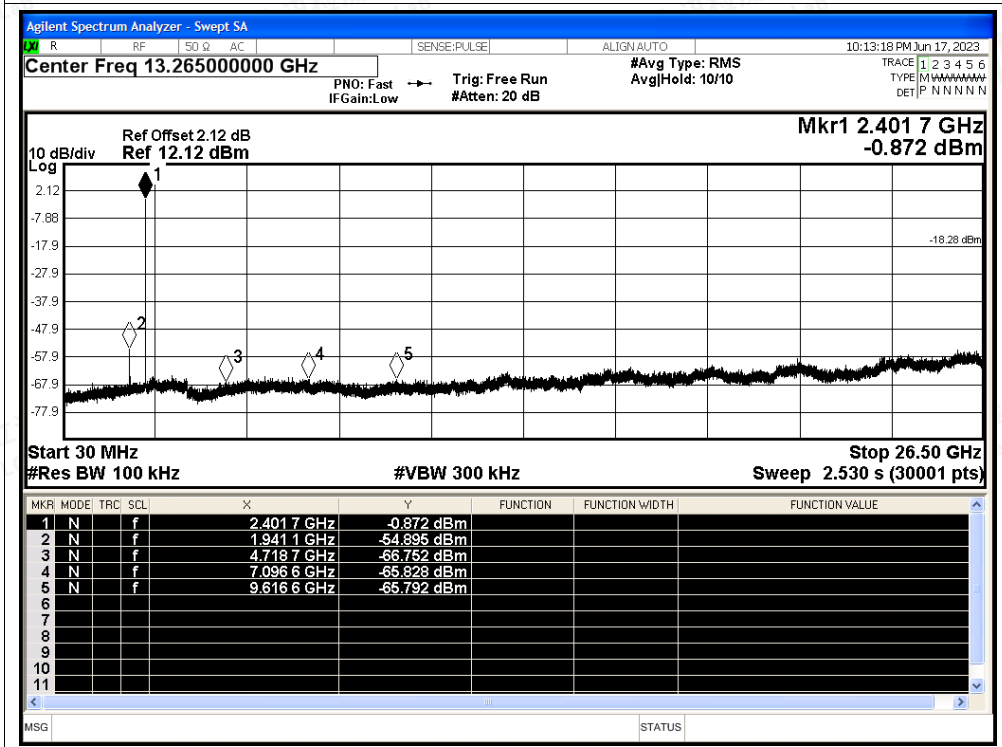




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

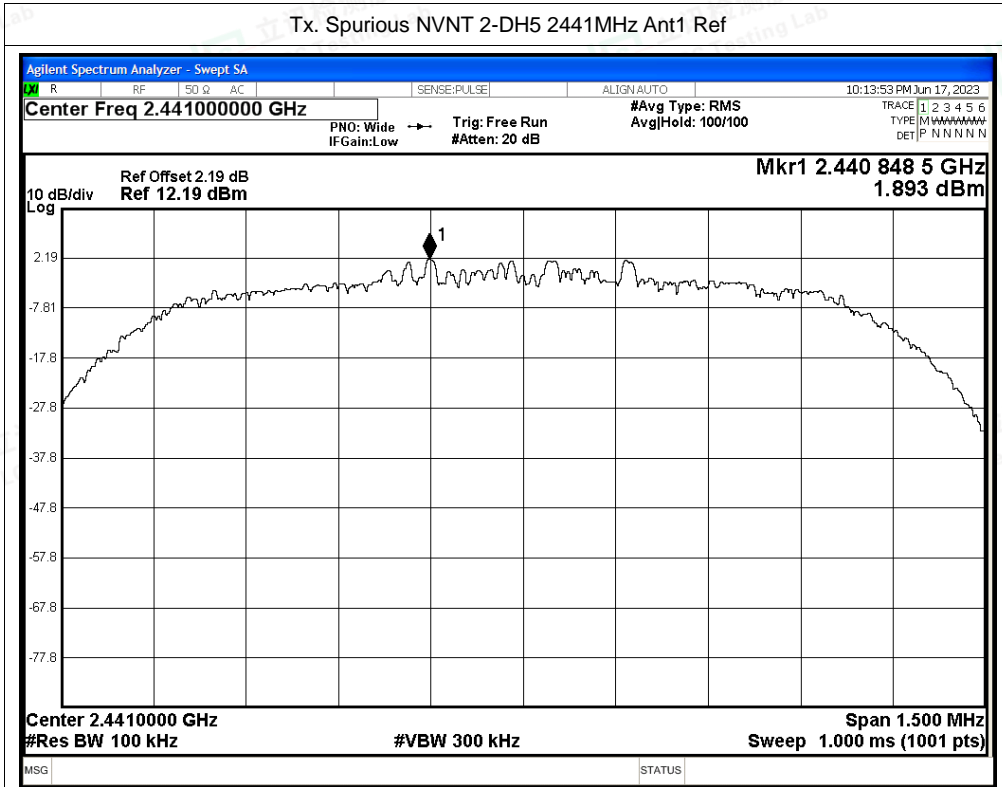


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

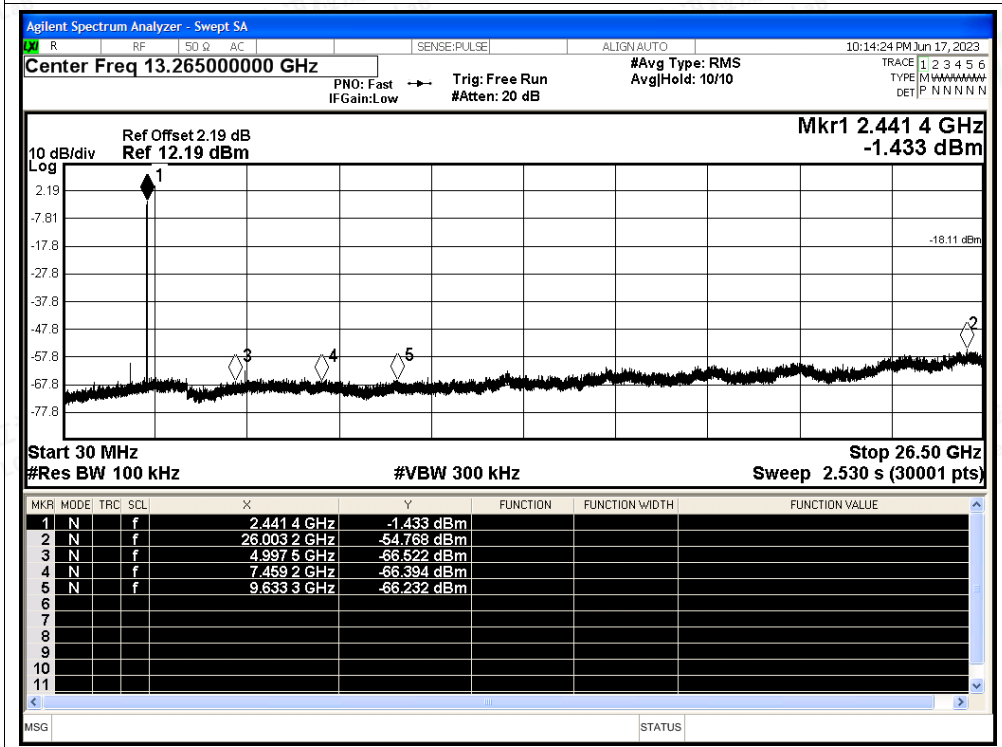




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

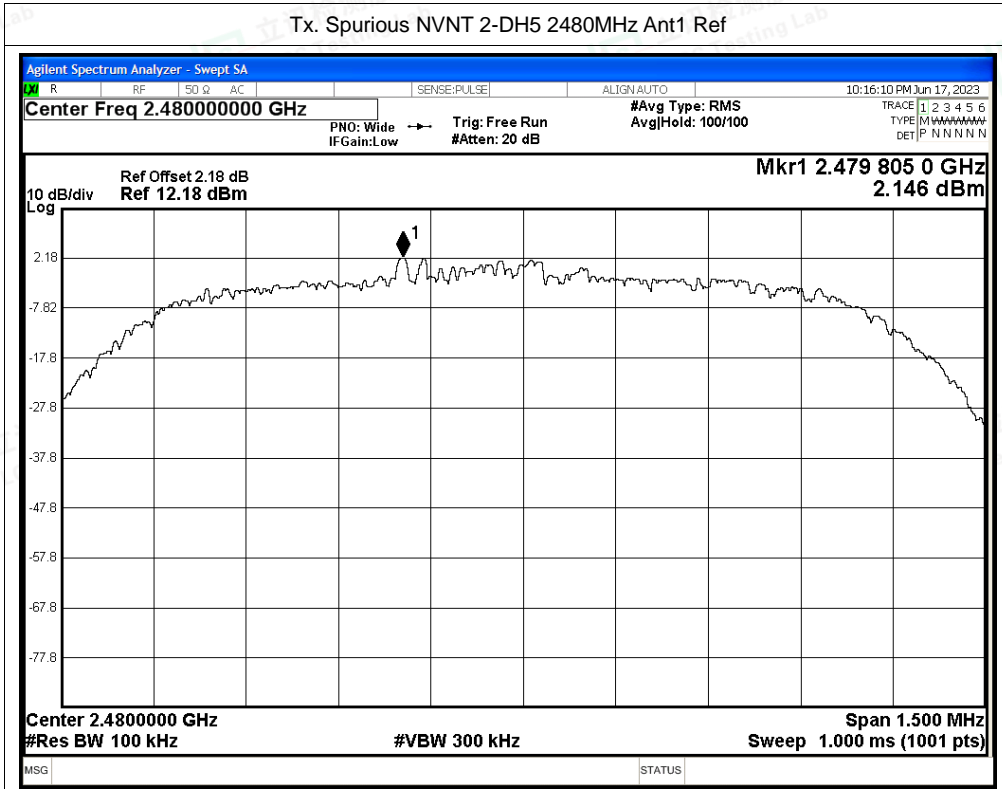


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

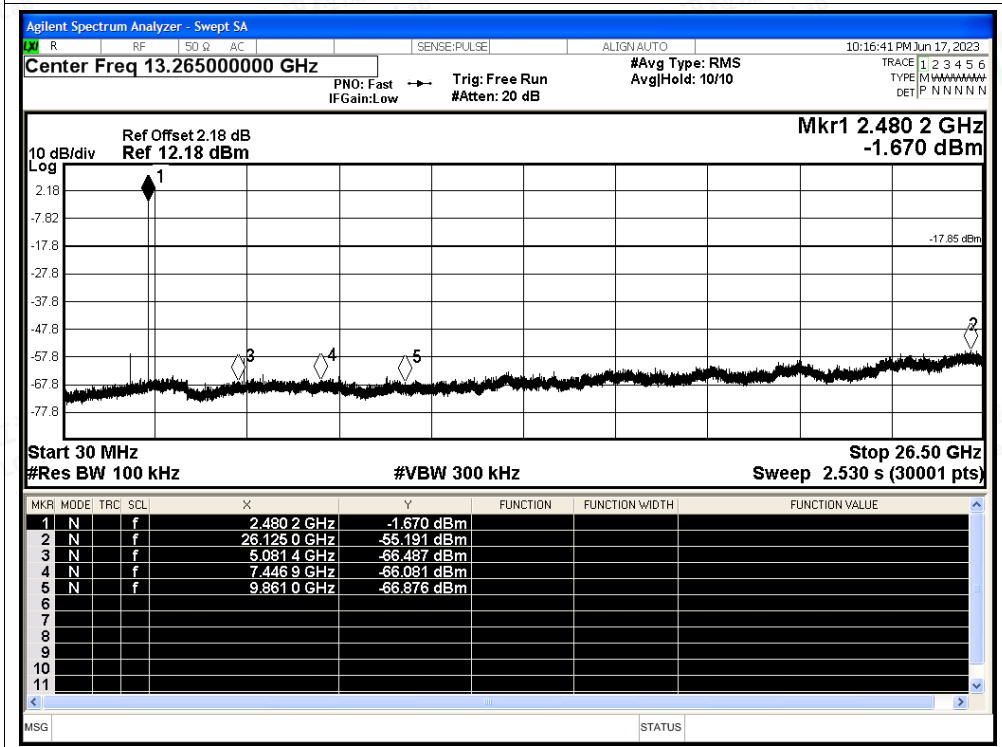




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

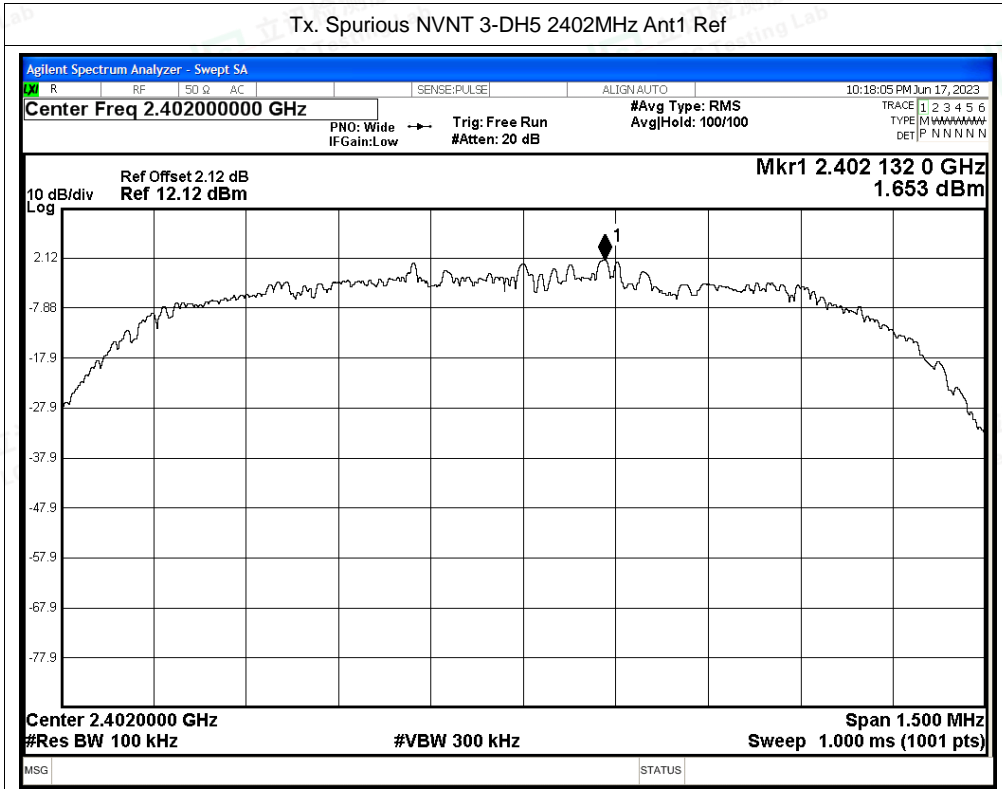


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

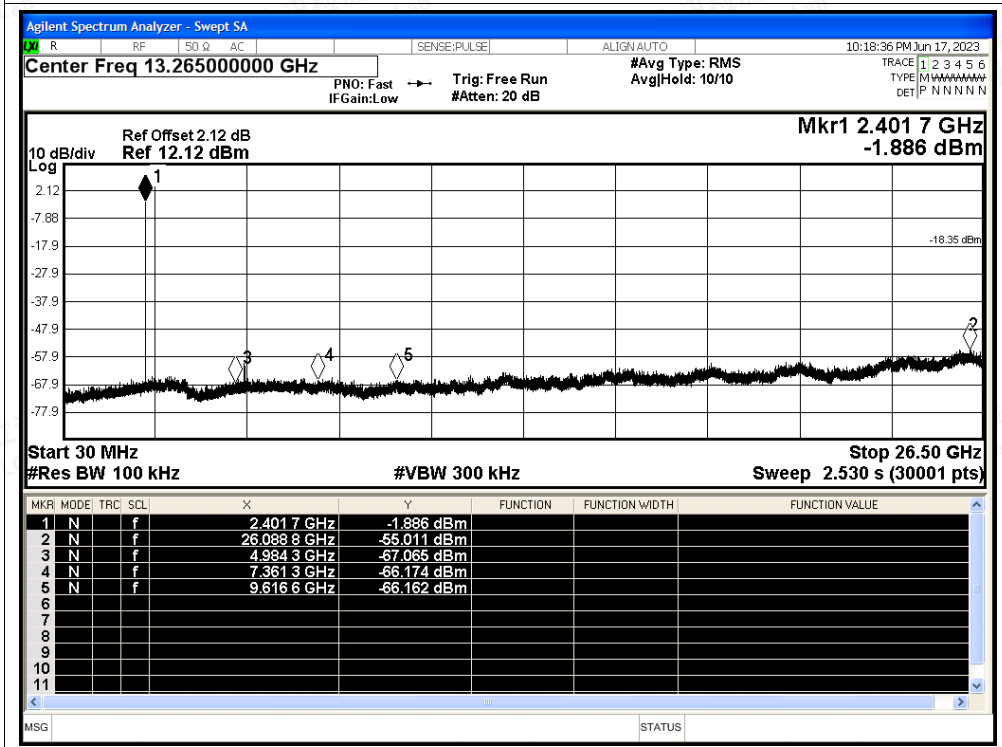




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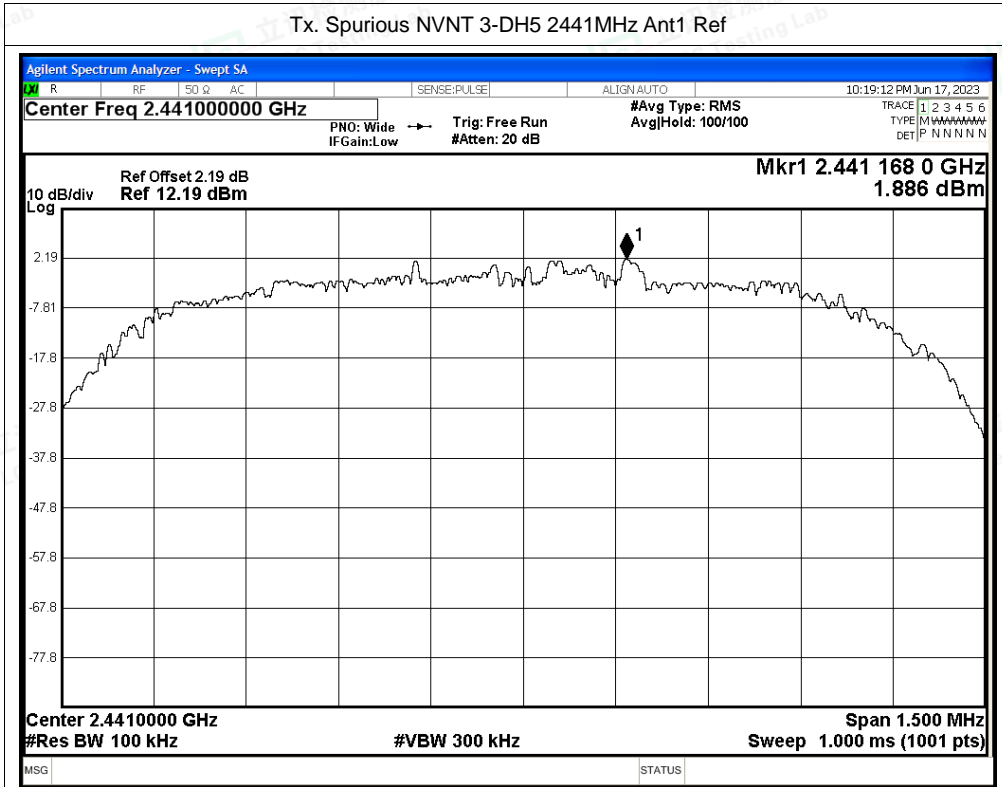


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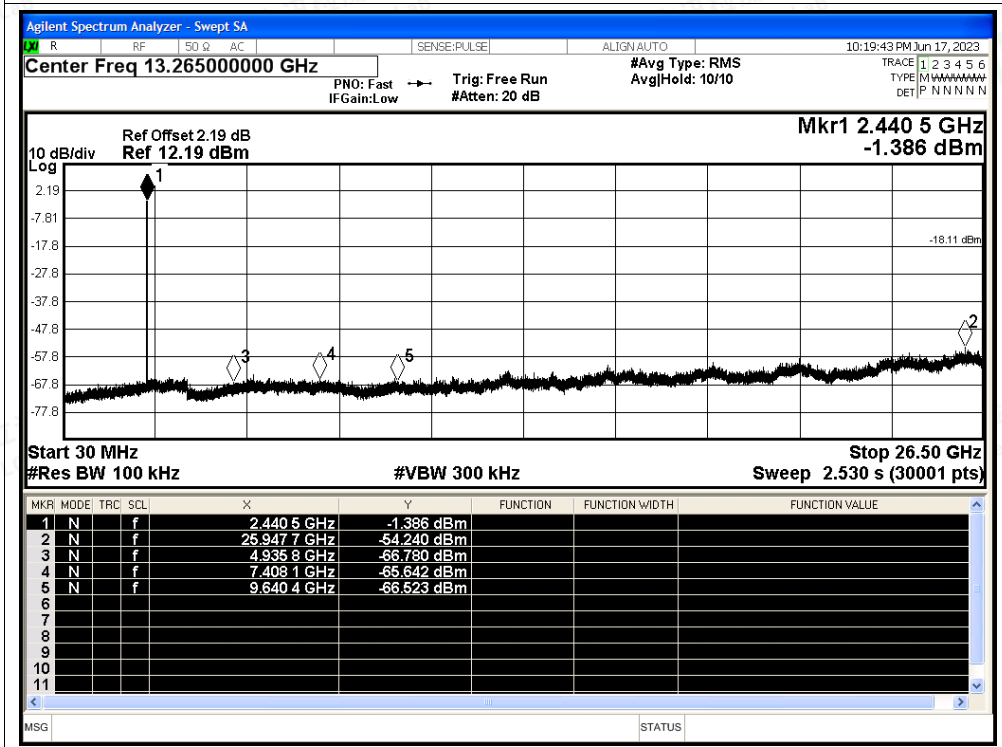




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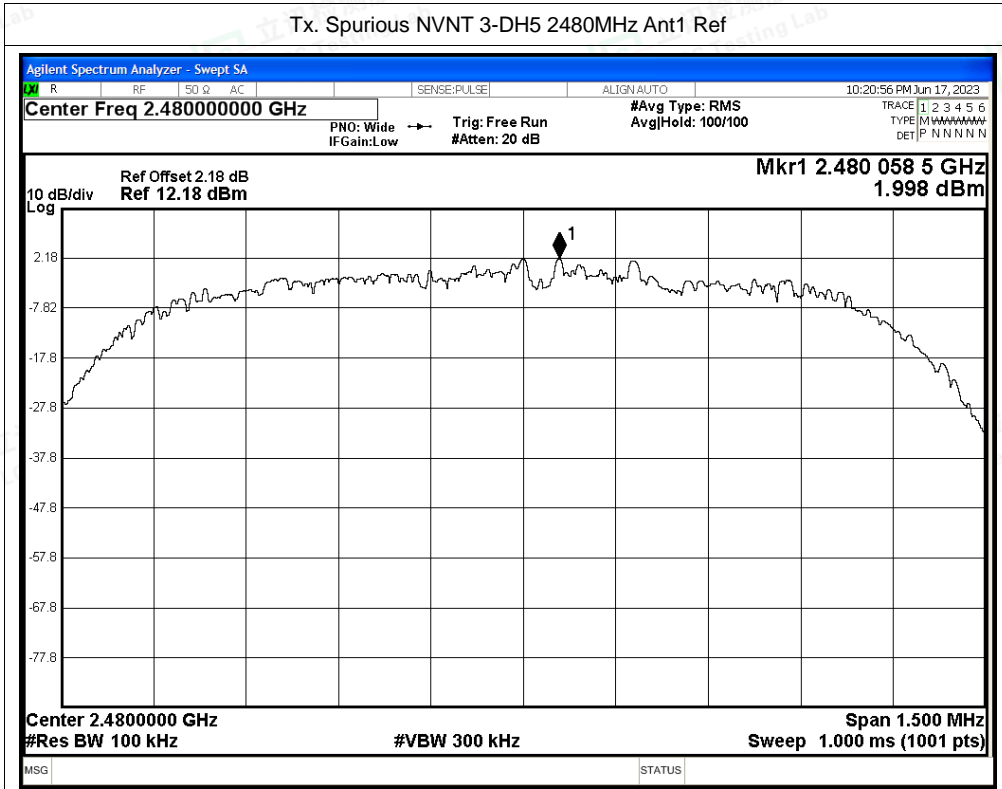


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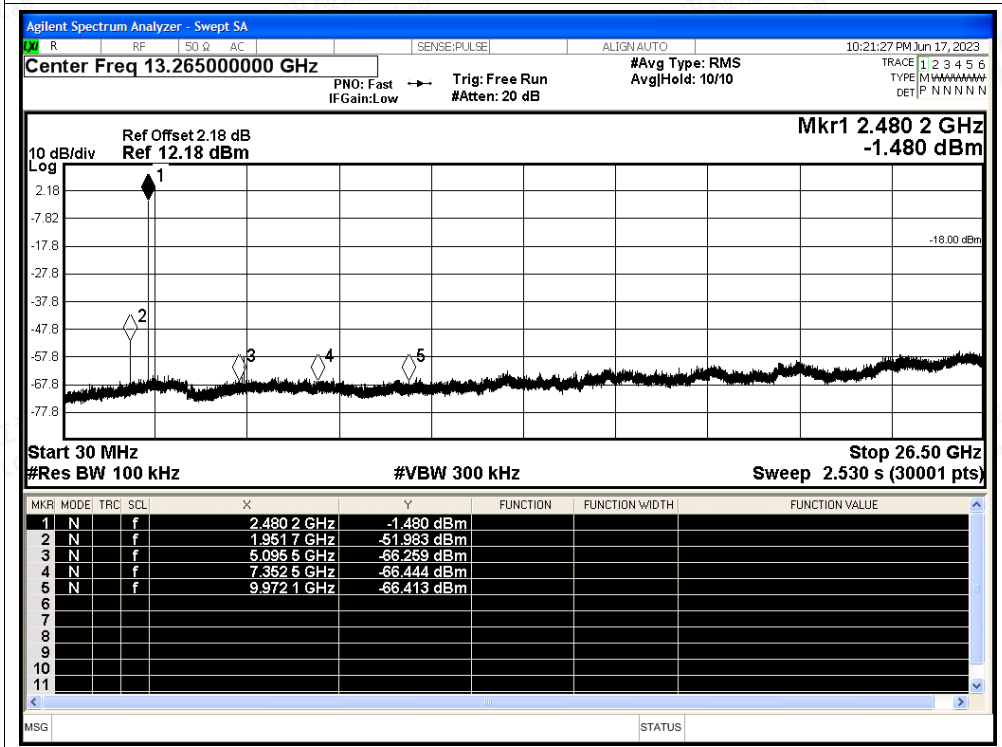




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-51.08	2	46.18	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.86	2	39.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2326.512	-47.64	2	49.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.312	-57.42	2	39.84	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.7	2	46.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.58	2	39.68	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.25	2	49.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.14	2	43.12	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.848	-47.11	2	50.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-54.14	2	43.12	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.6	2	47.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.3	2	39.96	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.52	2	47.74	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.97	2	39.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2332.08	-47.57	2	49.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.016	-57.4	2	39.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.08	2	48.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.58	2	39.68	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.75	2	47.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.98	2	43.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2495.992	-46.76	2	50.5	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.98	2	43.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.67	2	47.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.2	2	40.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.47	2	45.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58	2	39.26	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2348.112	-47.06	2	50.2	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.624	-57.38	2	39.88	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.26	2	47	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.39	2	39.87	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.84	2	48.42	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.89	2	43.37	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.48	-45.9	2	51.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.89	2	43.37	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.03	2	49.23	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.28	2	39.98	Average	54	Pass

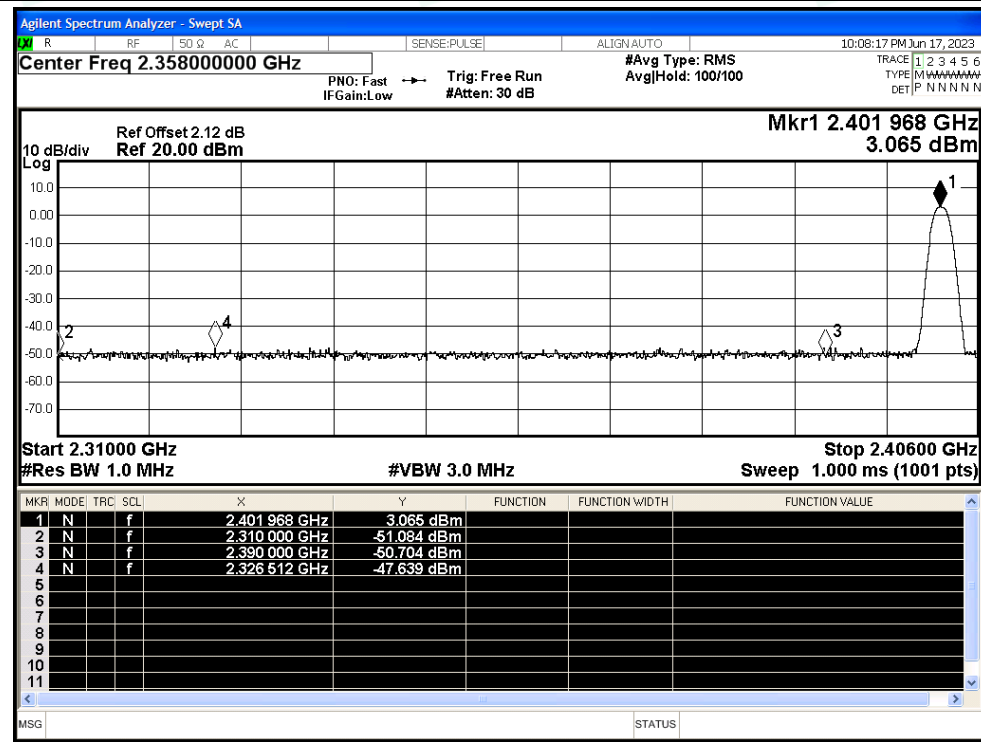


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 Scan code to check authenticity

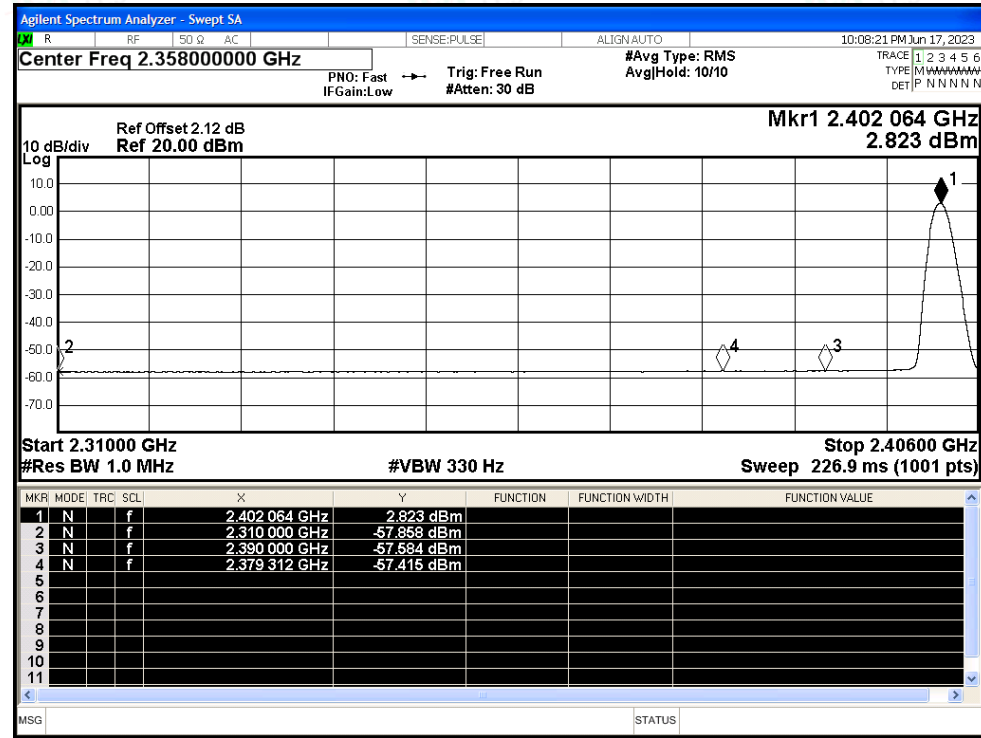


Test Graphs

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

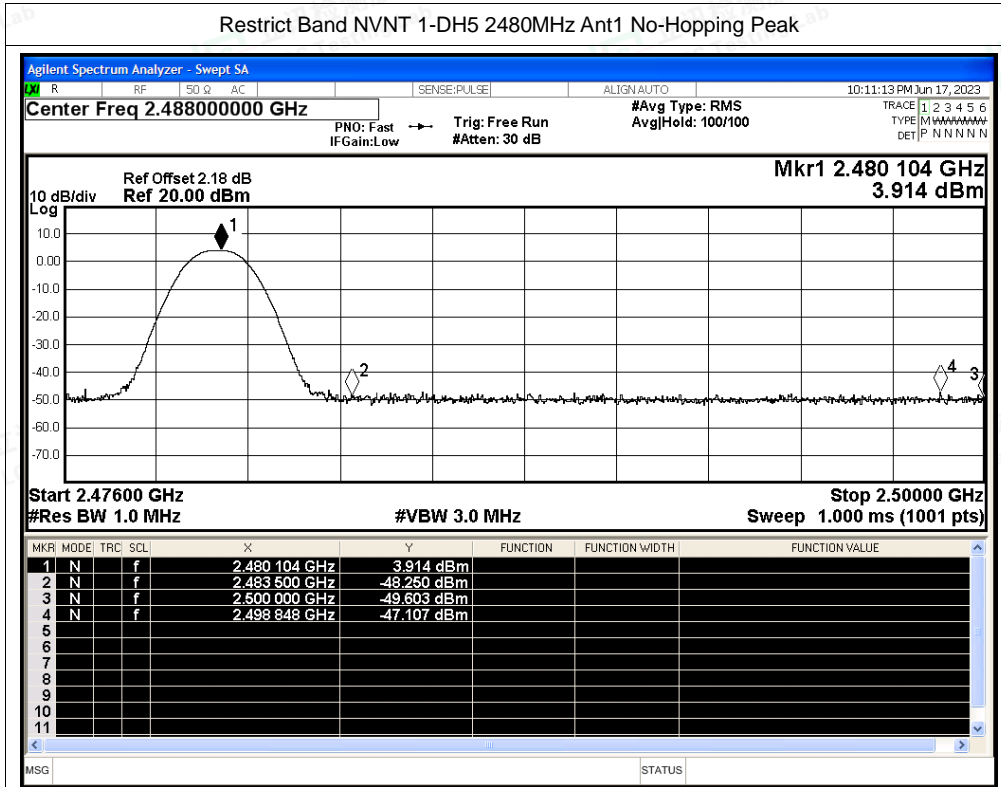


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

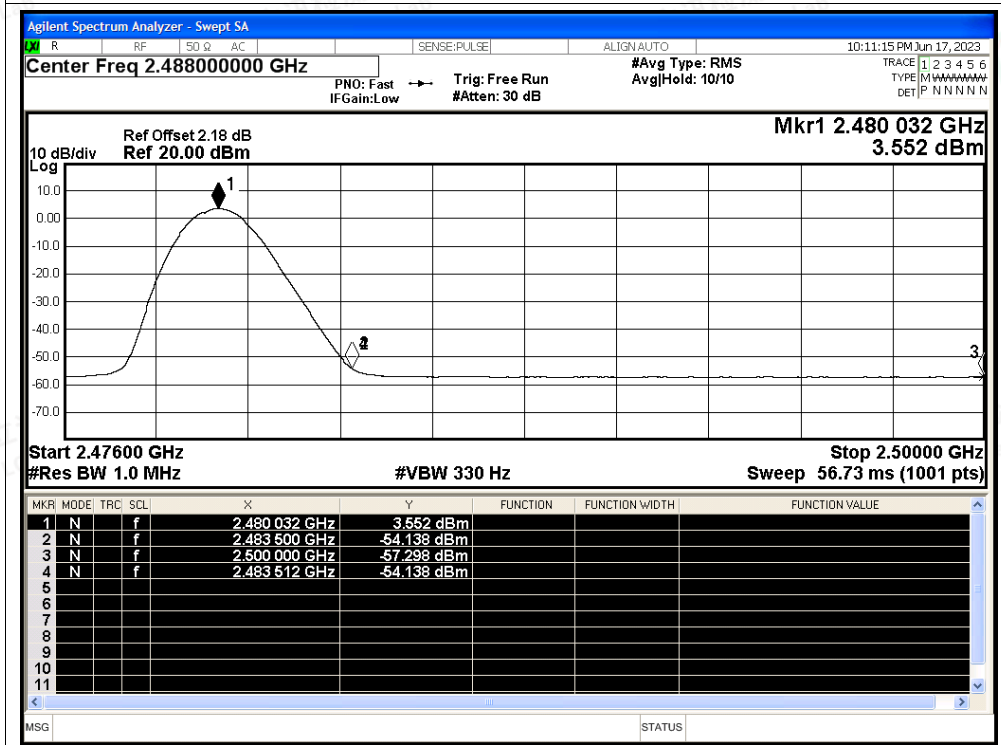


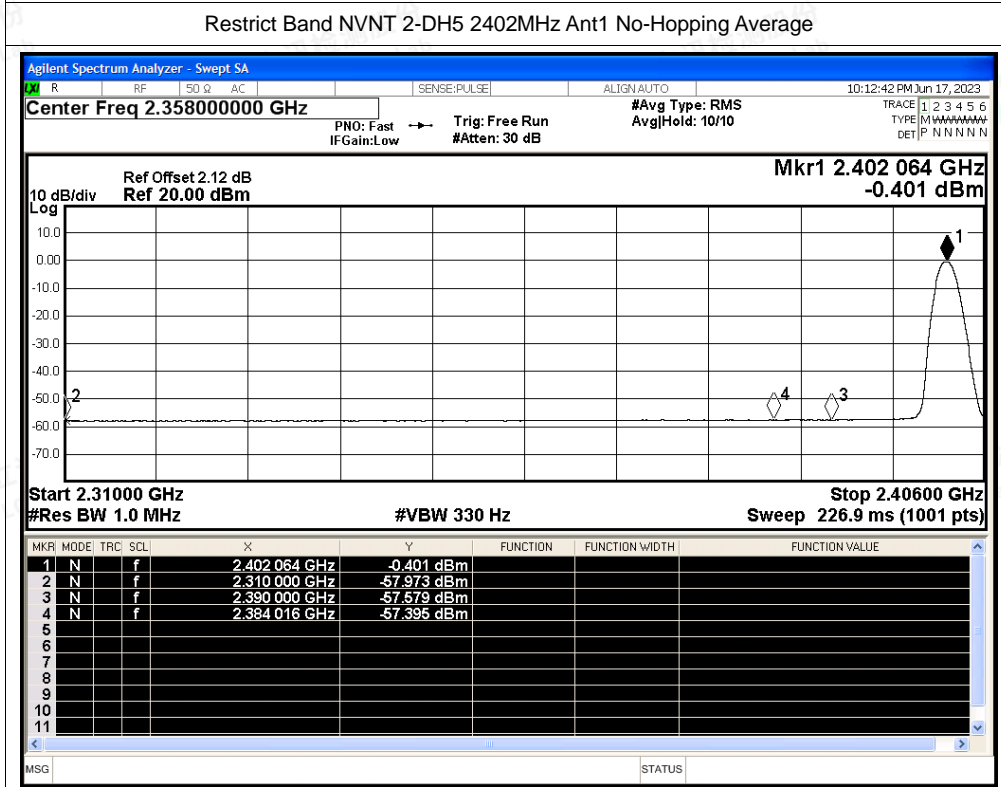
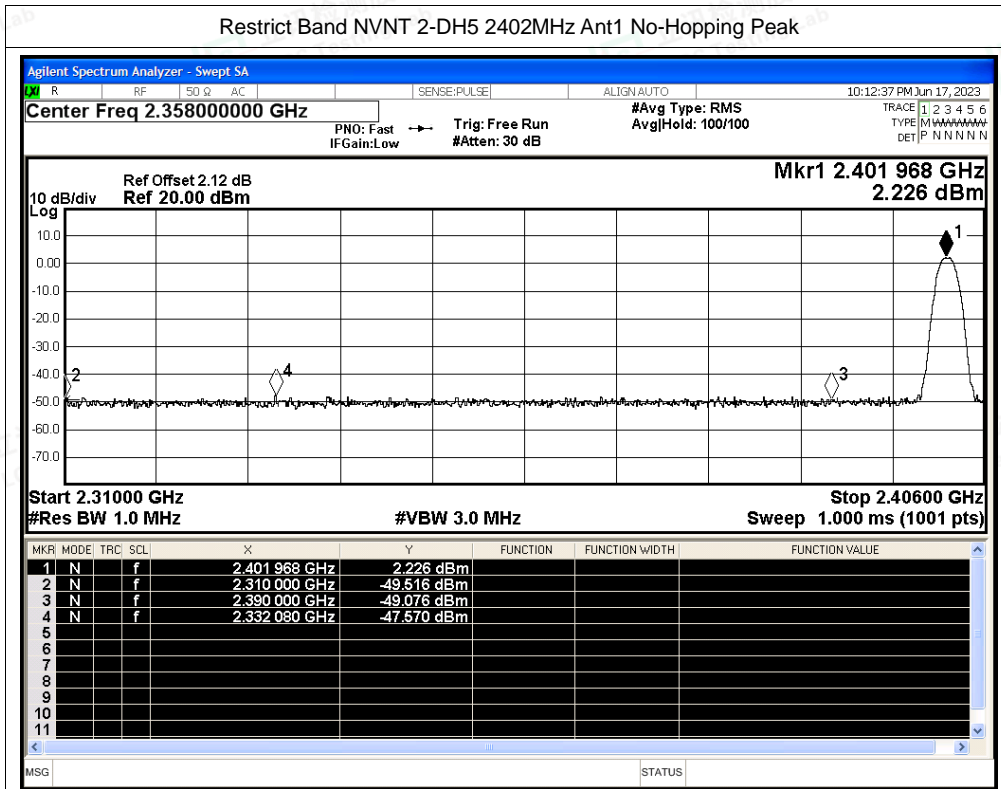


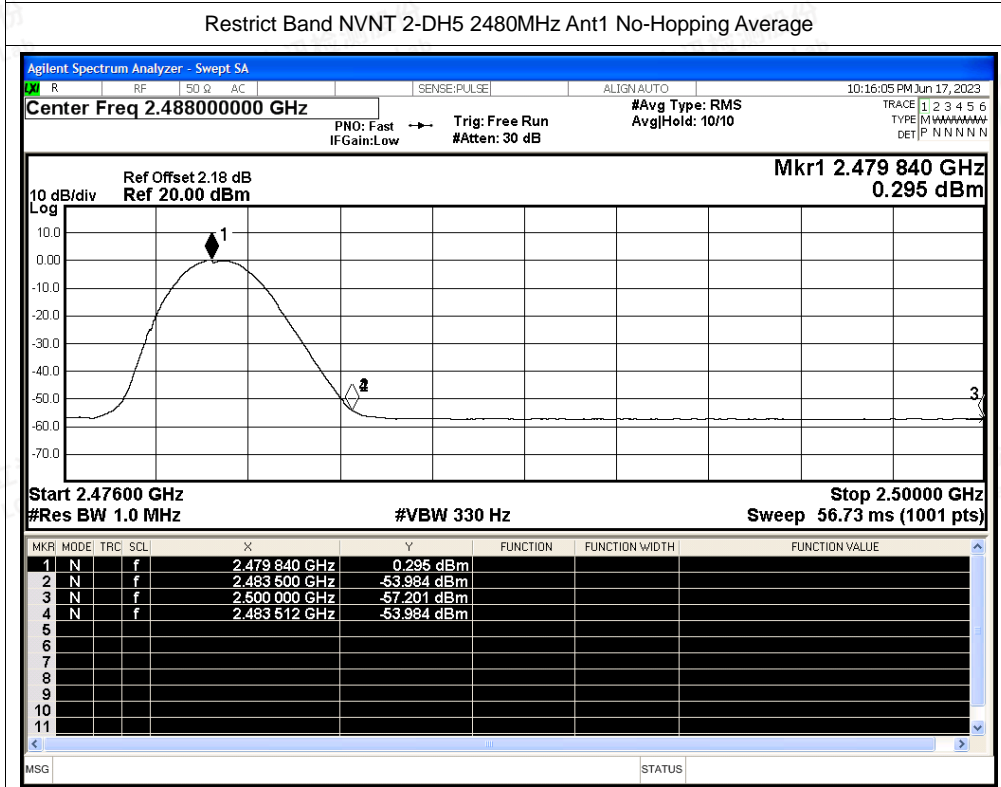
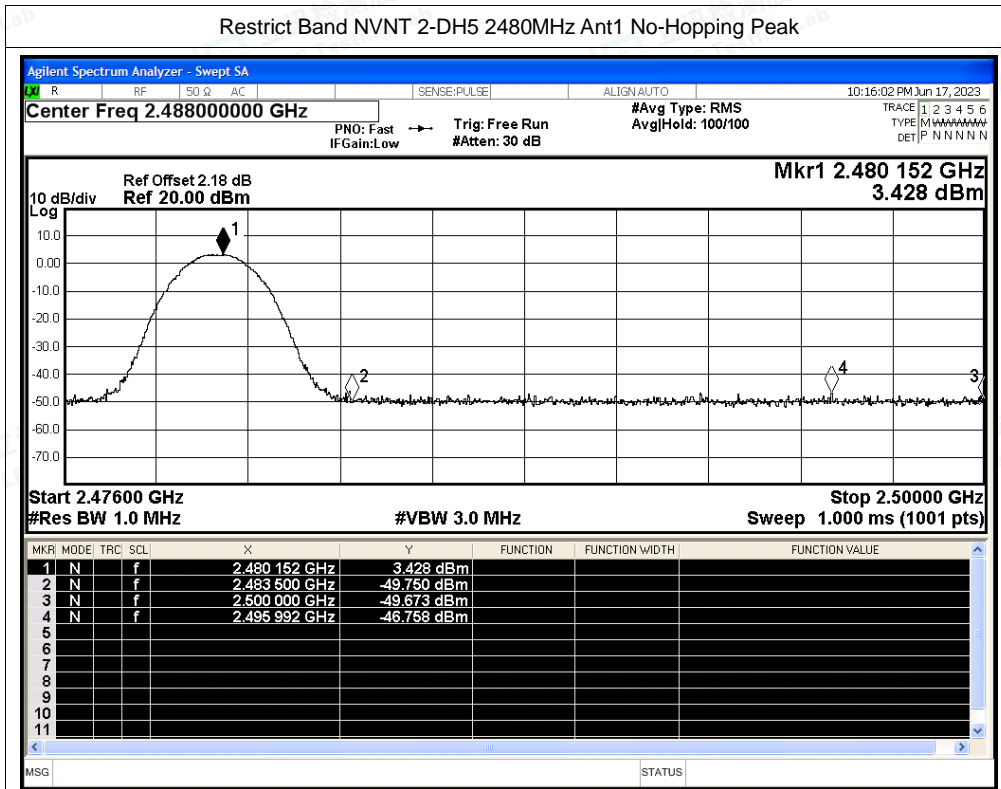
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

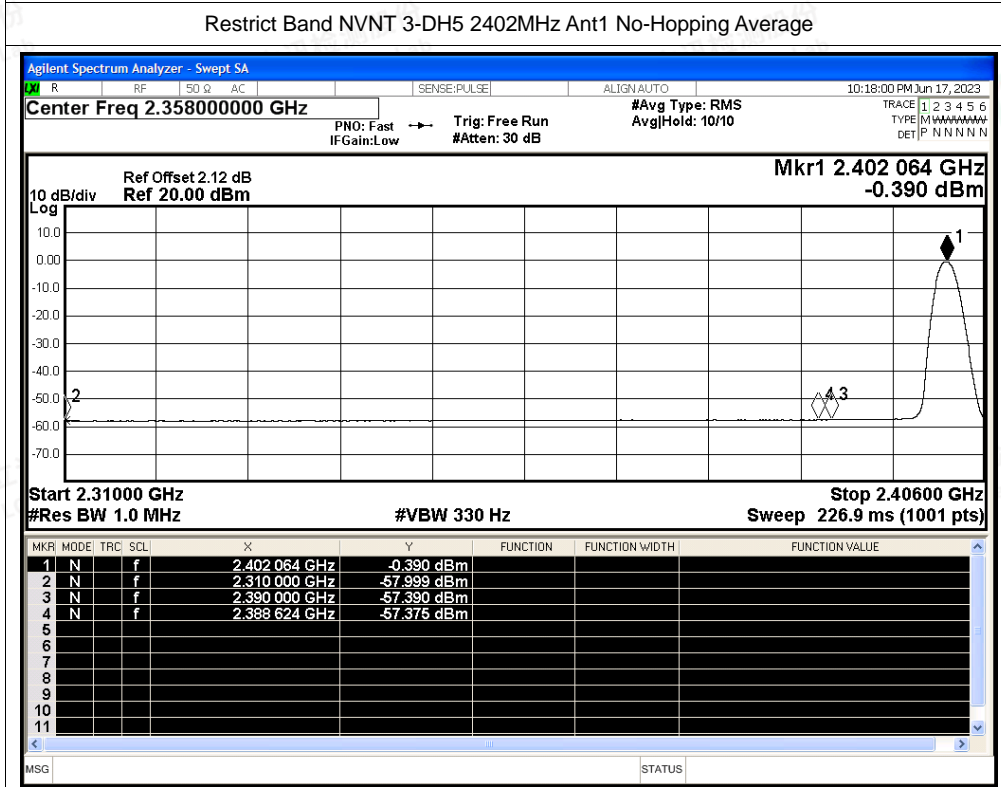
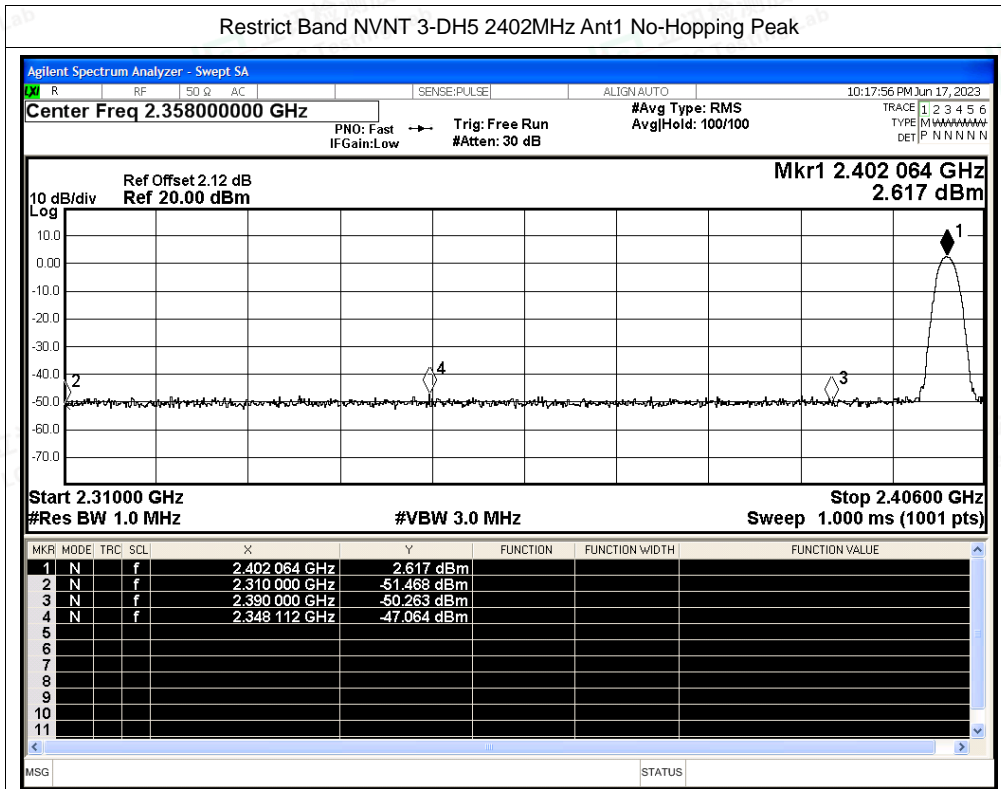


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



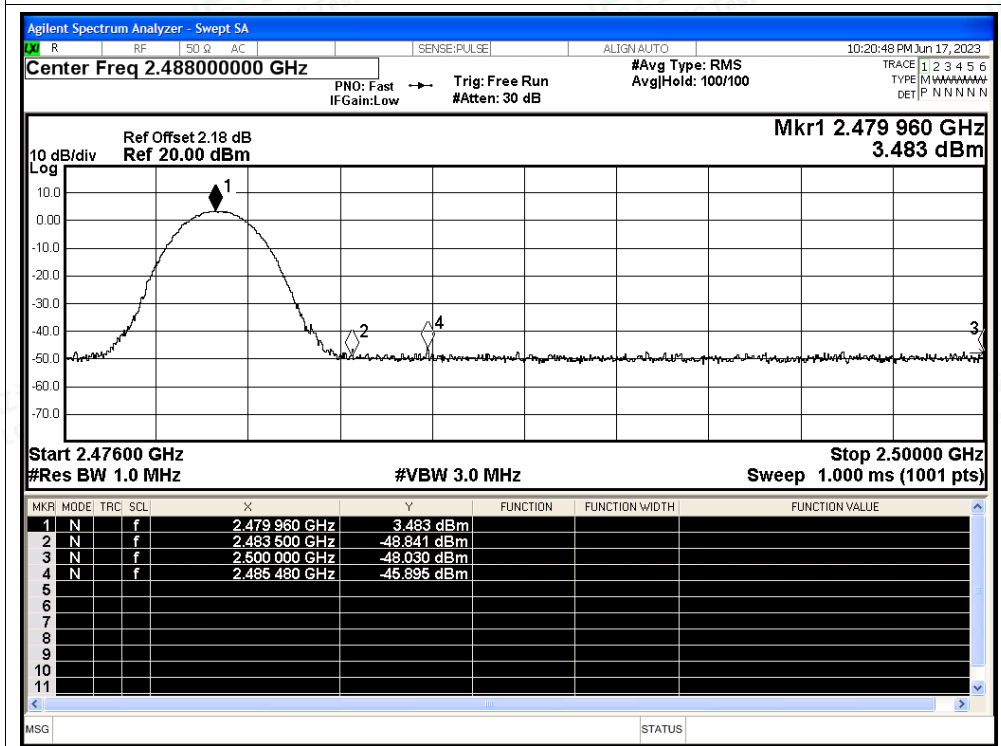








Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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

