



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Headset

Test Model: B91S

Environmental Conditions

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





A.1 -20dB Bandwidth

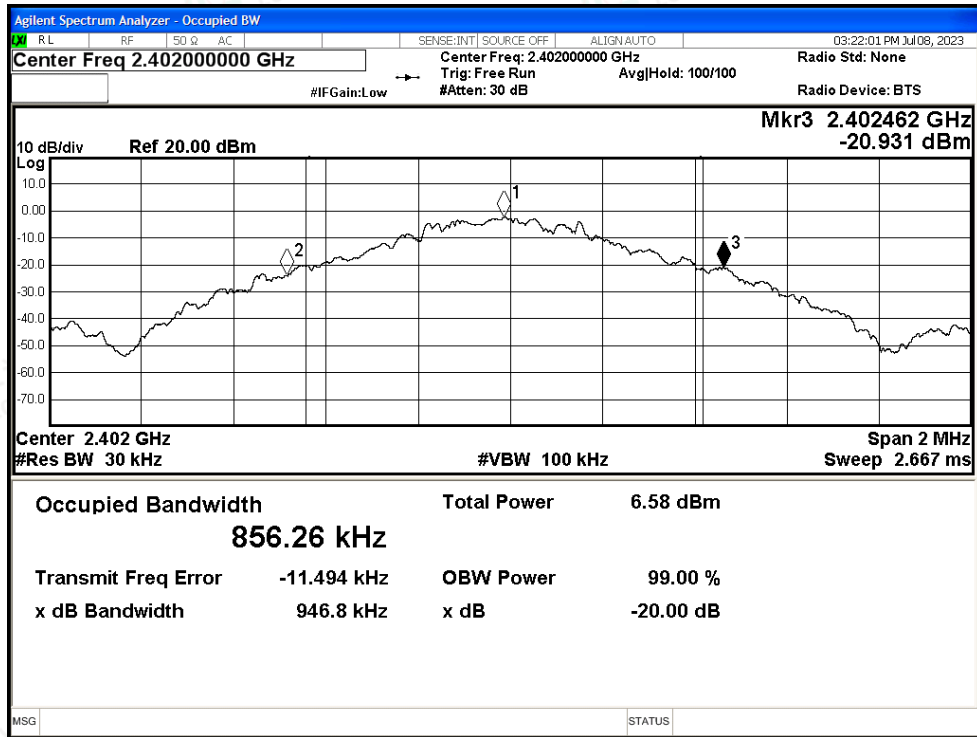
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.947	0	Pass
NVNT	1-DH5	2441	Ant1	0.952	0	Pass
NVNT	1-DH5	2480	Ant1	0.94	0	Pass
NVNT	2-DH5	2402	Ant1	1.272	0	Pass
NVNT	2-DH5	2441	Ant1	1.273	0	Pass
NVNT	2-DH5	2480	Ant1	1.306	0	Pass
NVNT	3-DH5	2402	Ant1	1.271	0	Pass
NVNT	3-DH5	2441	Ant1	1.285	0	Pass
NVNT	3-DH5	2480	Ant1	1.277	0	Pass



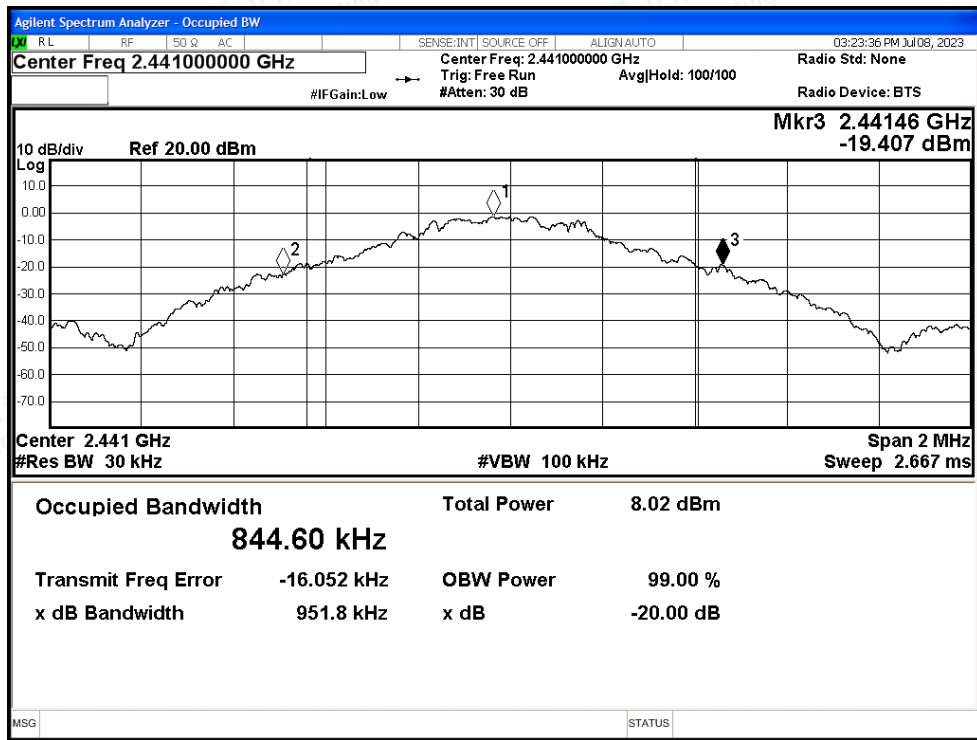


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

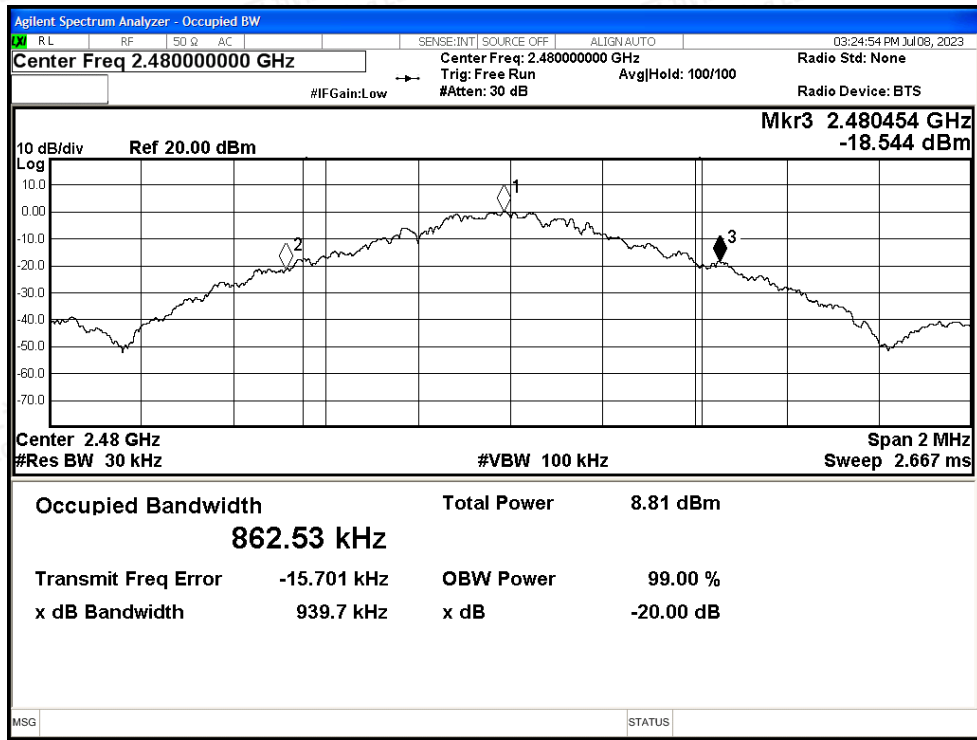


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

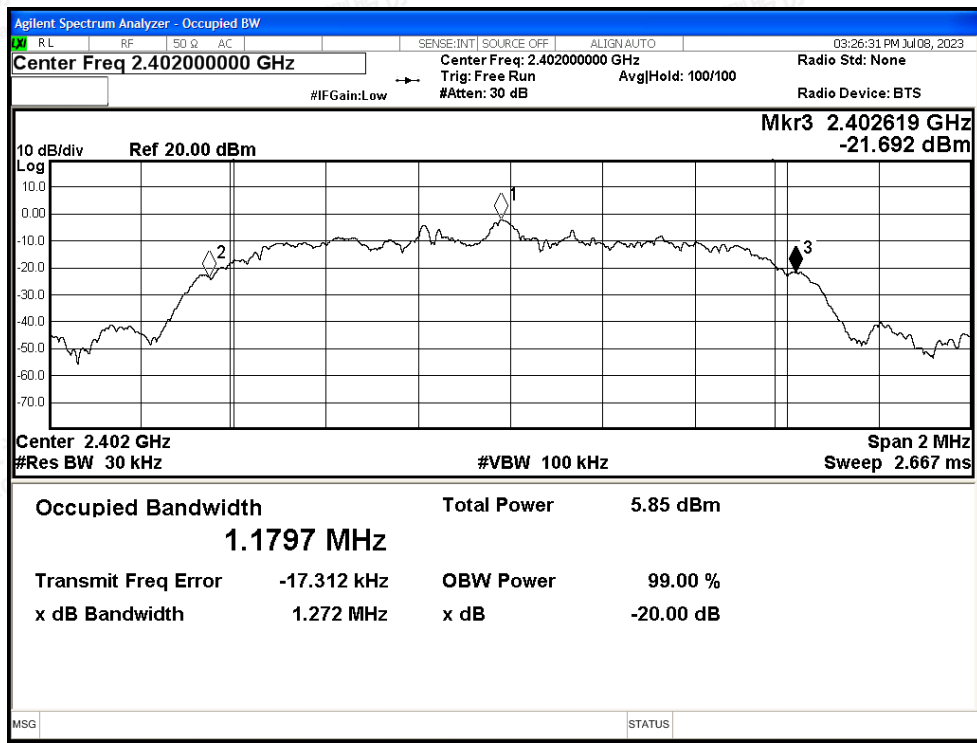




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

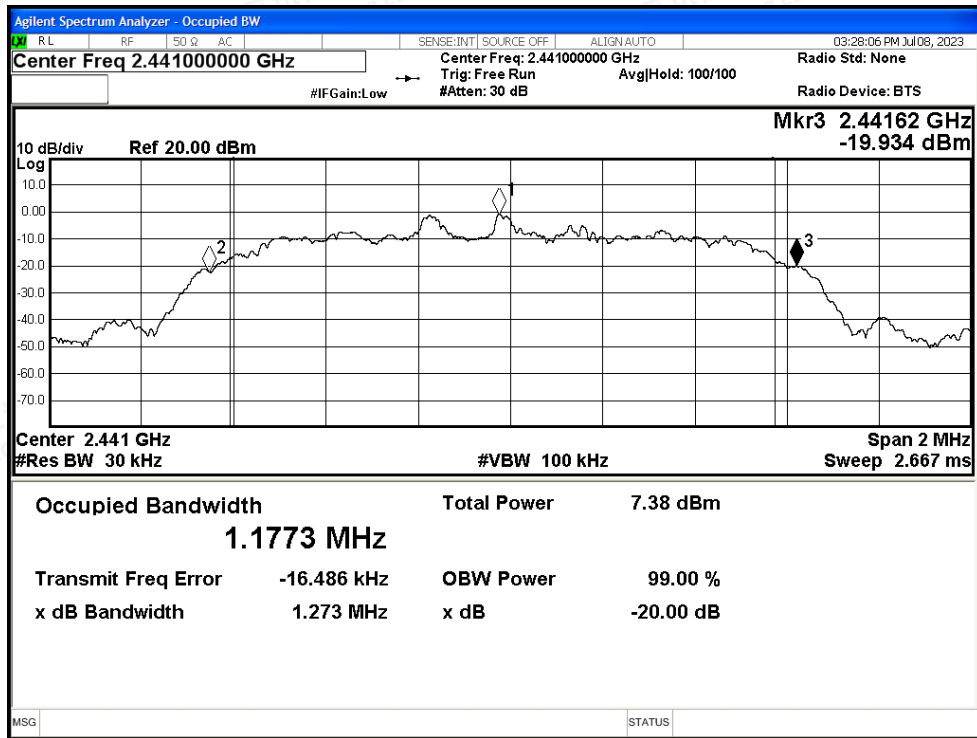


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

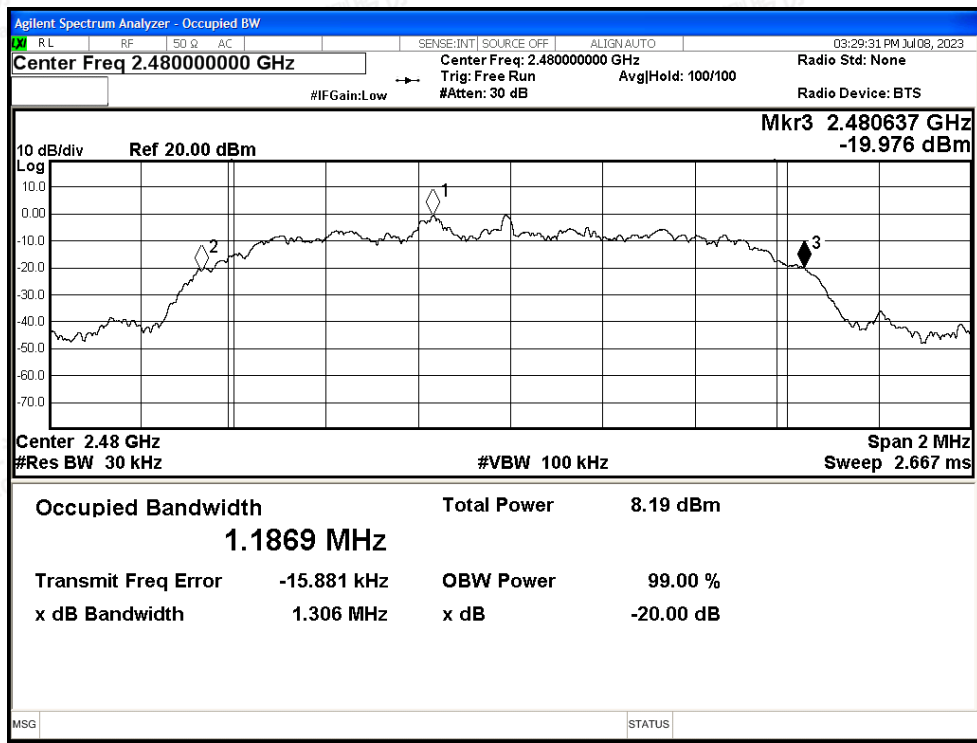




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

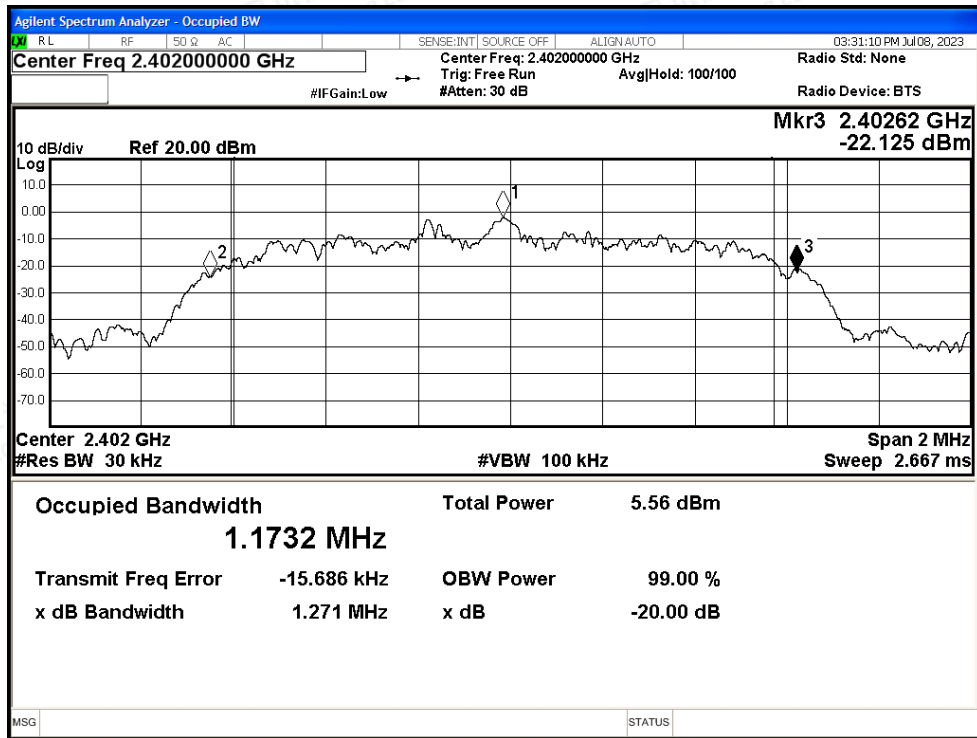


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

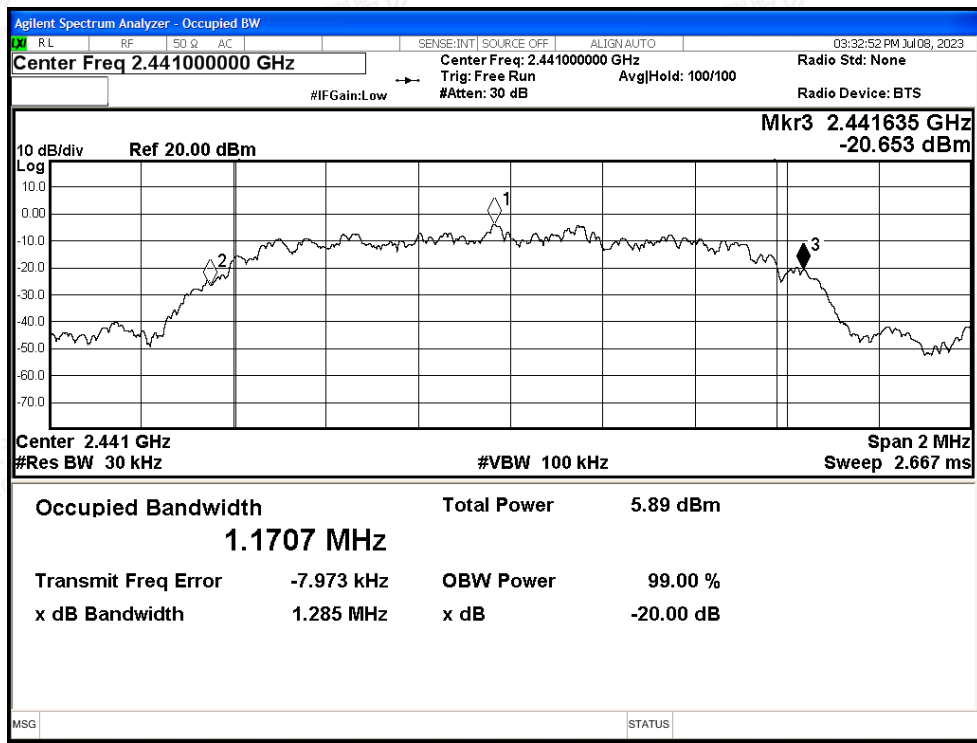




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

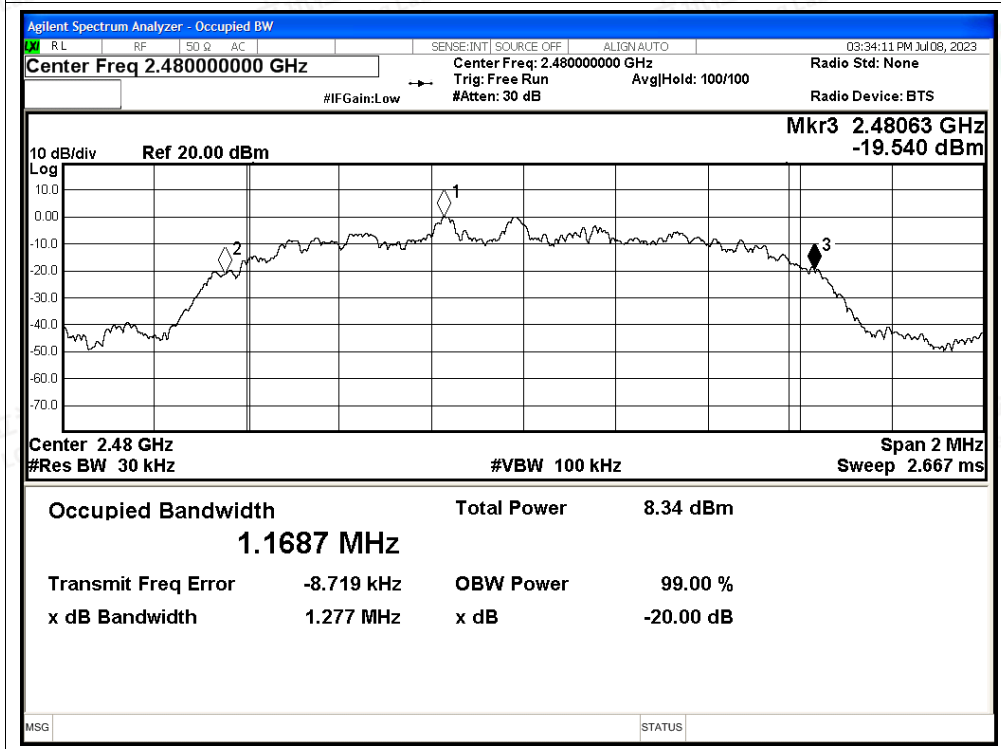


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

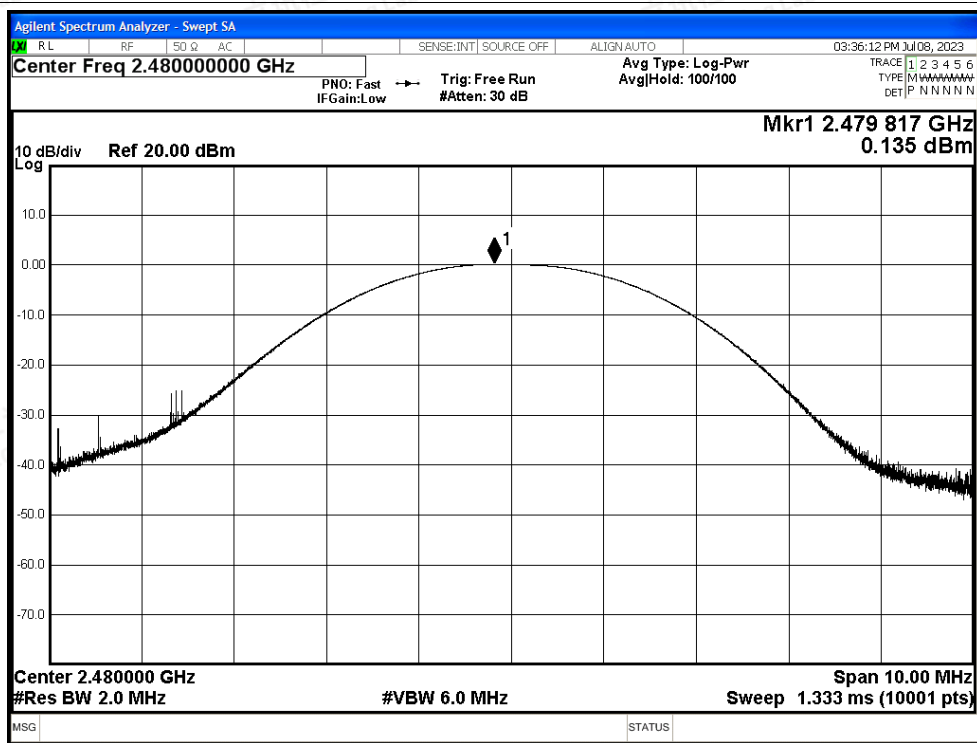
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.07	21	Pass
NVNT	1-DH5	2441	Ant1	1.38	21	Pass
NVNT	1-DH5	2480	Ant1	0.14	21	Pass
NVNT	2-DH5	2402	Ant1	0.94	21	Pass
NVNT	2-DH5	2441	Ant1	2.27	21	Pass
NVNT	2-DH5	2480	Ant1	1.06	21	Pass
NVNT	3-DH5	2402	Ant1	1.01	21	Pass
NVNT	3-DH5	2441	Ant1	2.38	21	Pass
NVNT	3-DH5	2480	Ant1	1.08	21	Pass



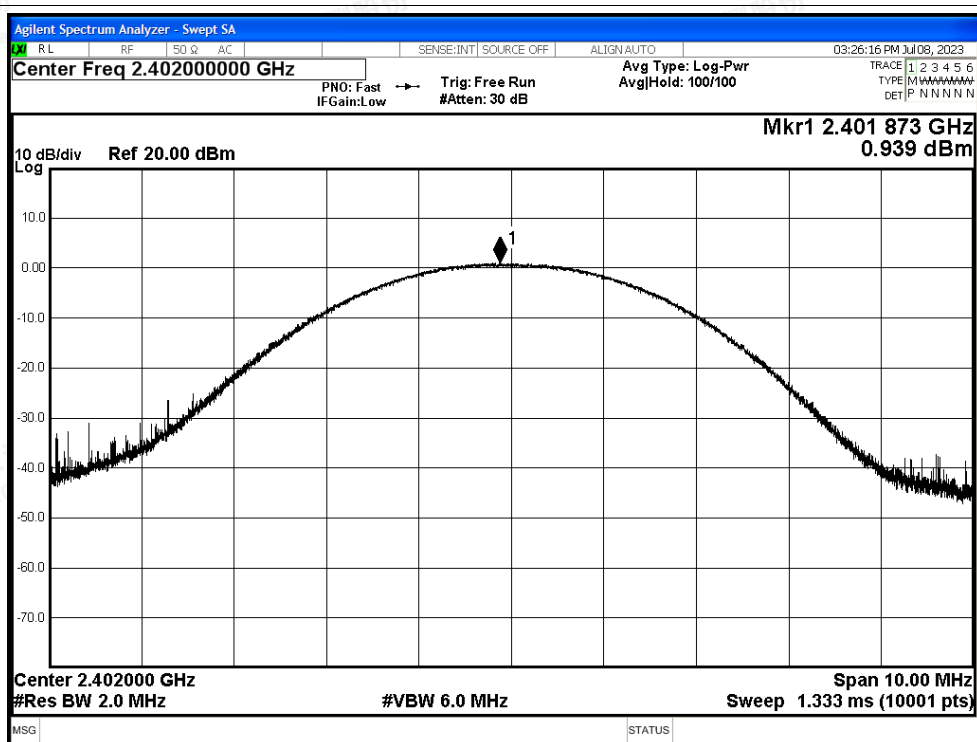
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Power NVNT 1-DH5 2480MHz Ant1

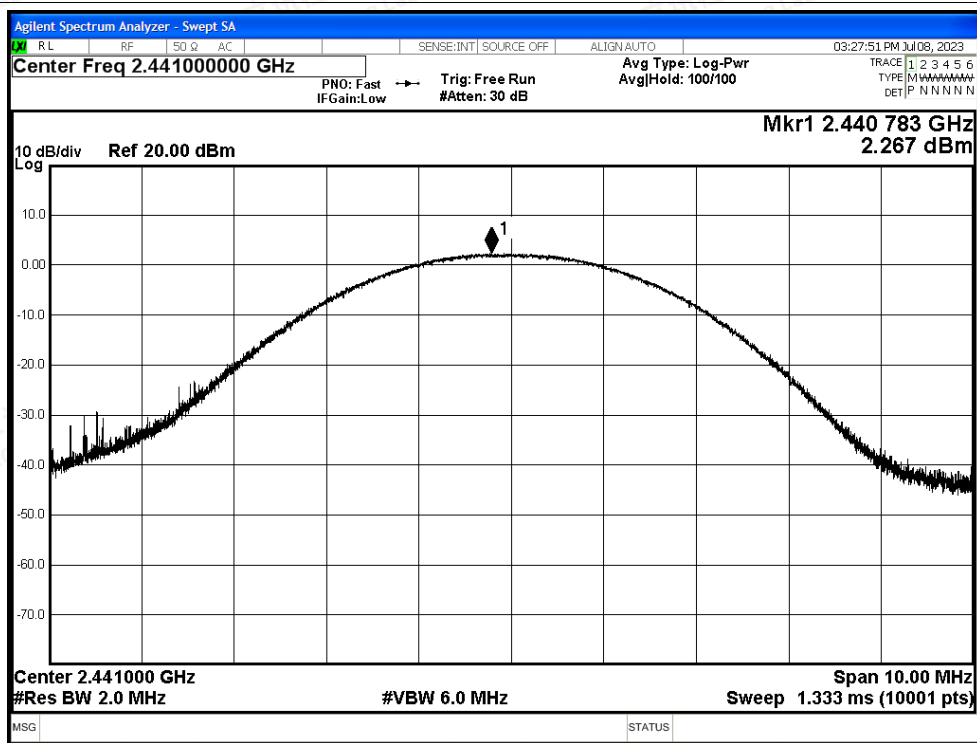


Power NVNT 2-DH5 2402MHz Ant1

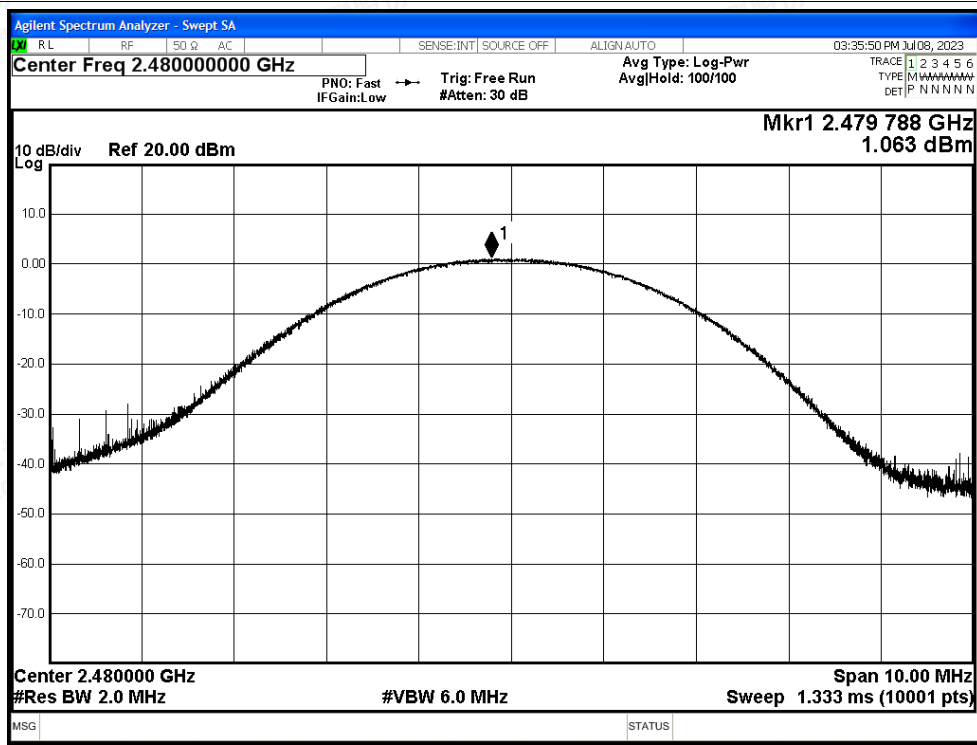




Power NVNT 2-DH5 2441MHz Ant1

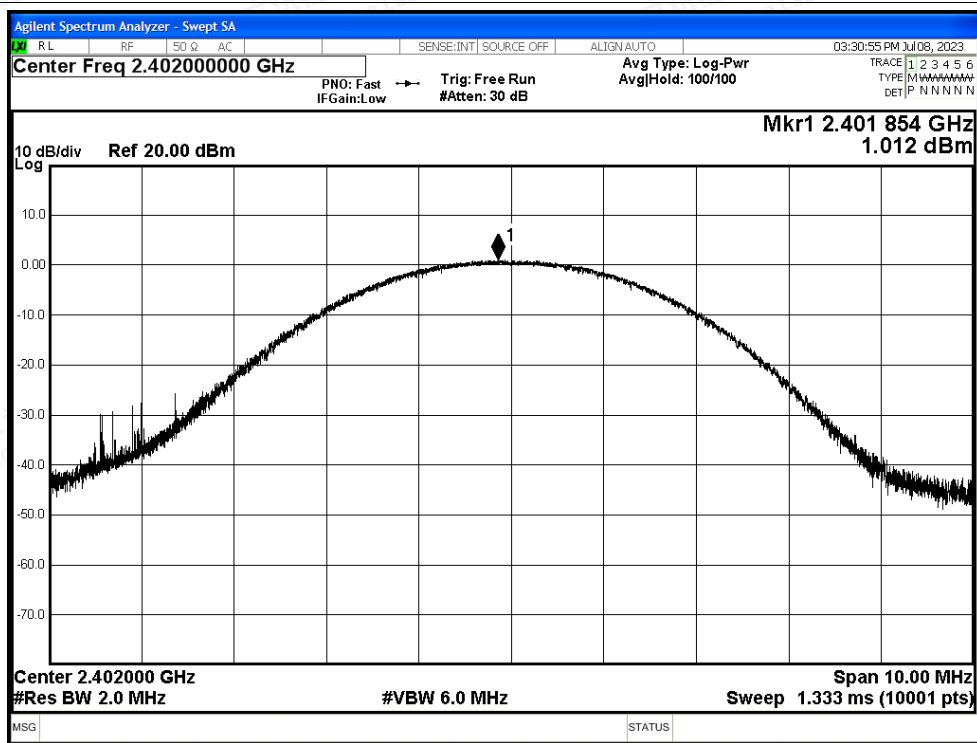


Power NVNT 2-DH5 2480MHz Ant1

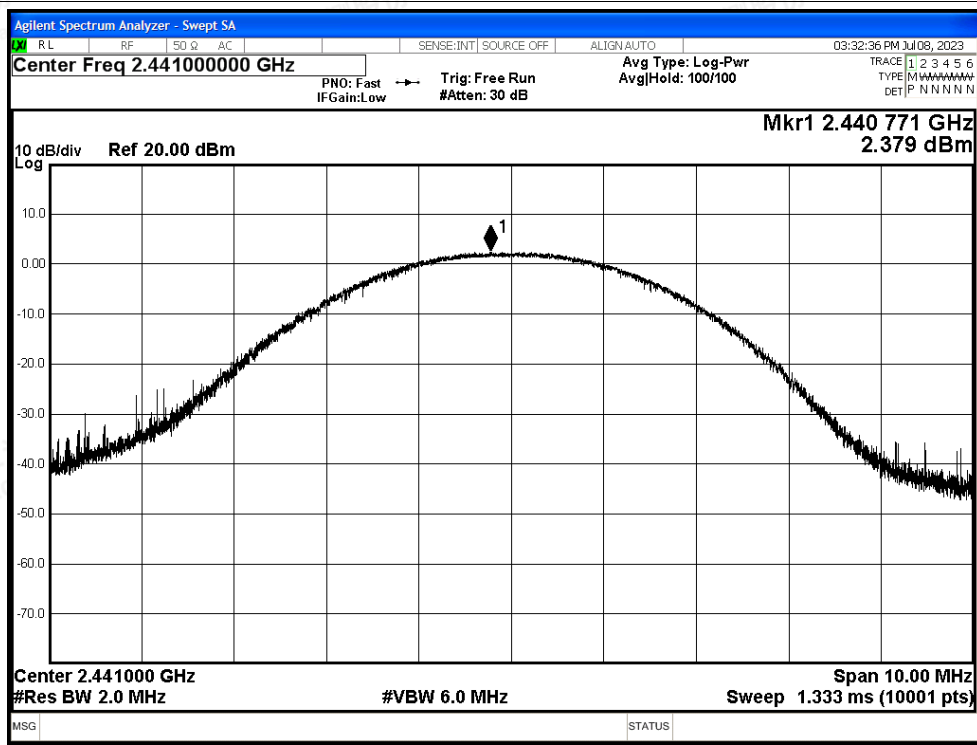


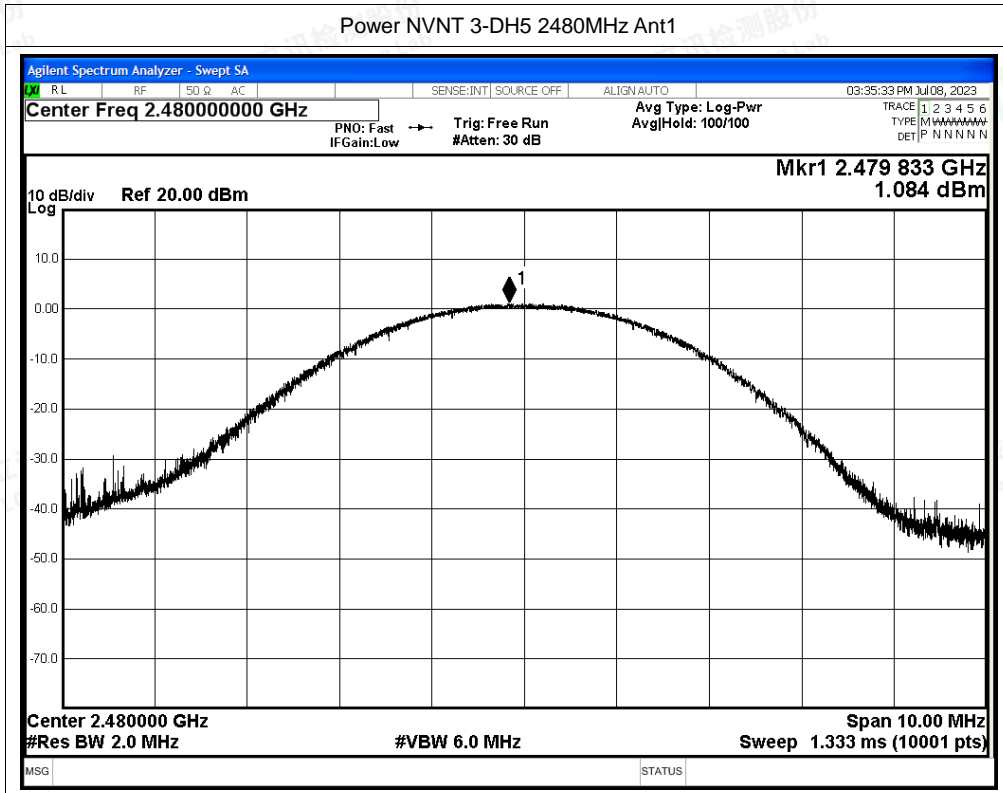


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

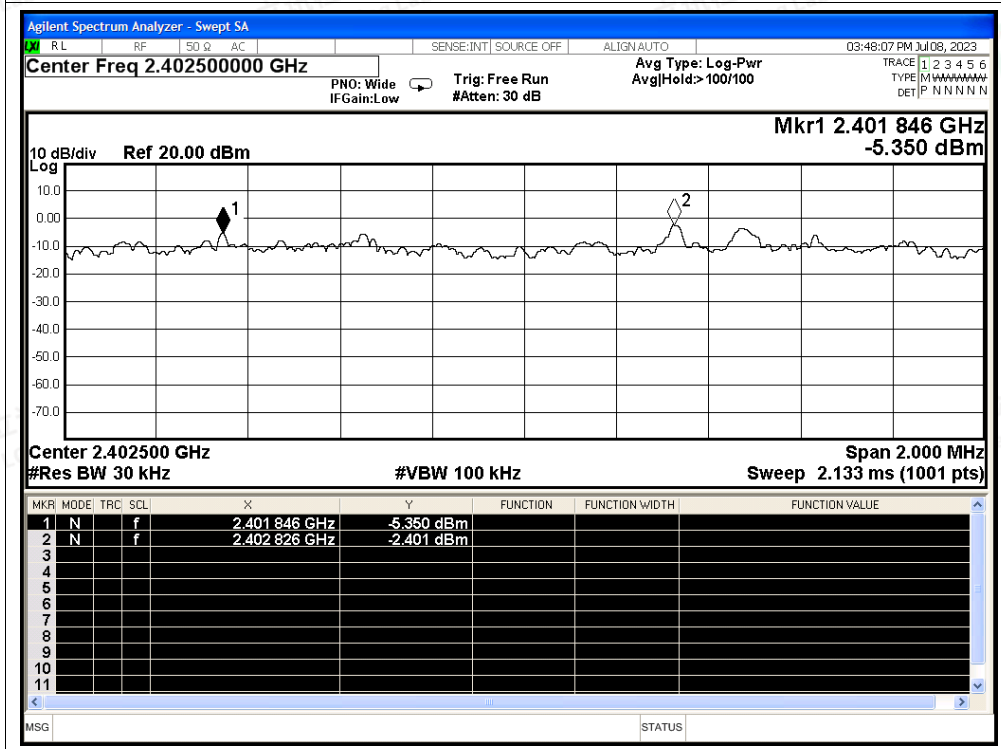
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.004	2402.98	0.976	0.635	Pass
NVNT	2-DH5	Ant1	2401.98	2402.984	1.004	0.871	Pass
NVNT	3-DH5	Ant1	2401.846	2402.826	0.980	0.857	Pass



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CFS NVNT 3-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	288.1	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	282.73	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	282.926	98	31600	400	Pass

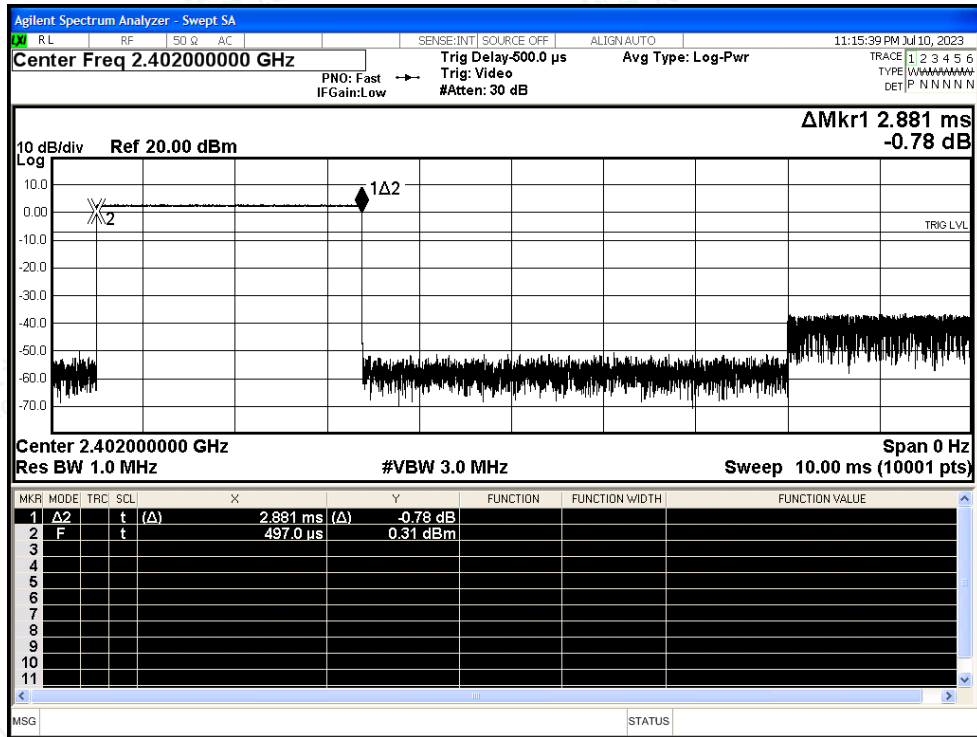


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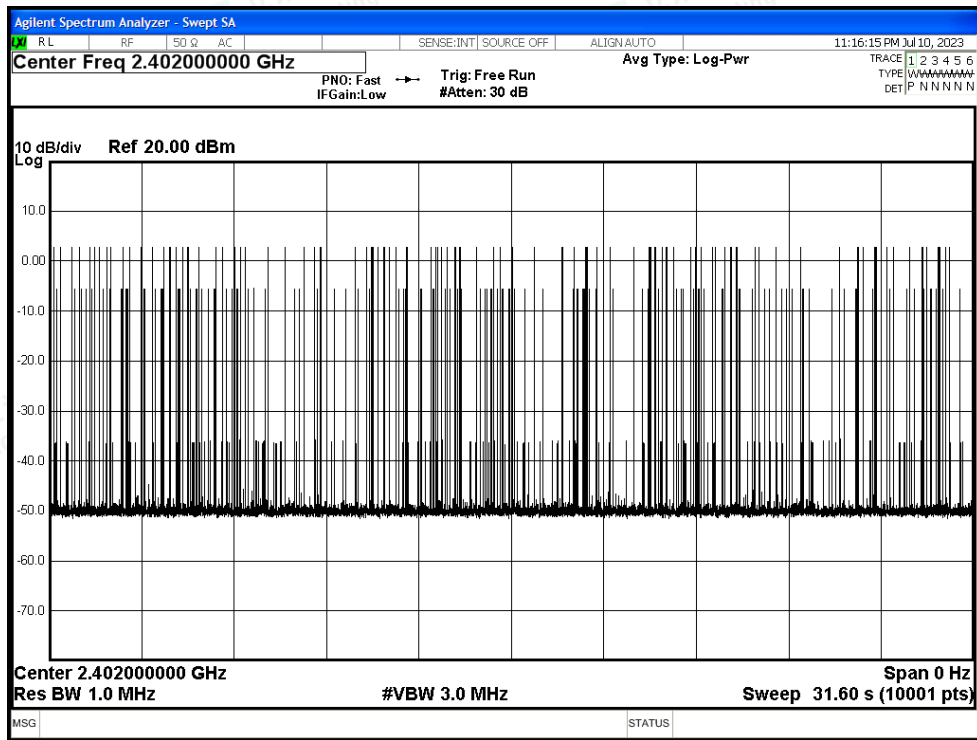


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

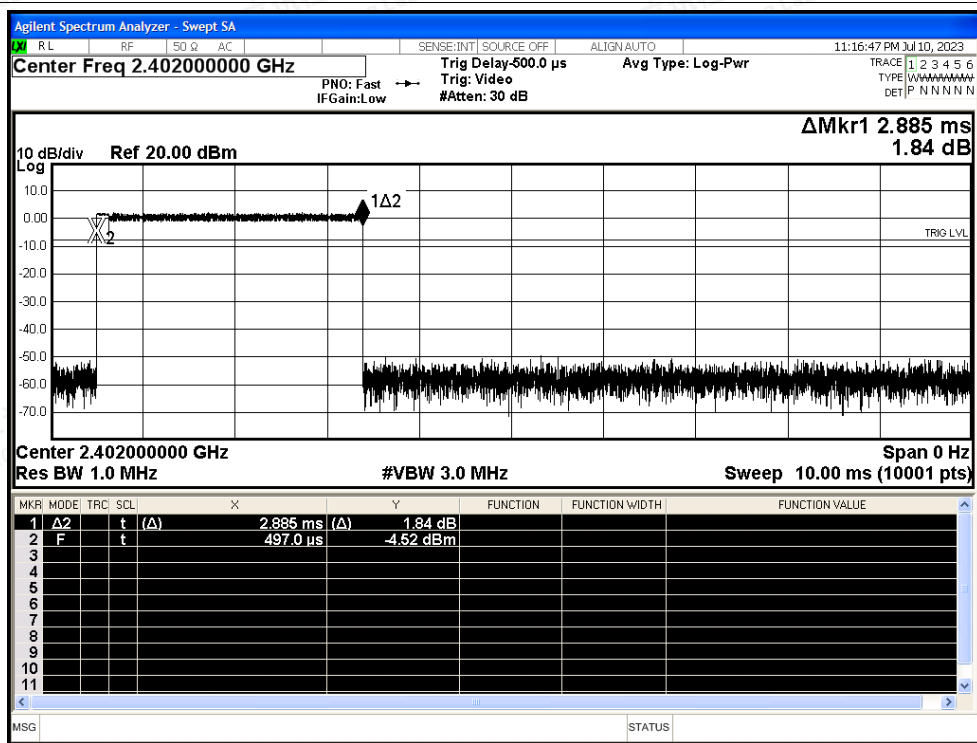


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

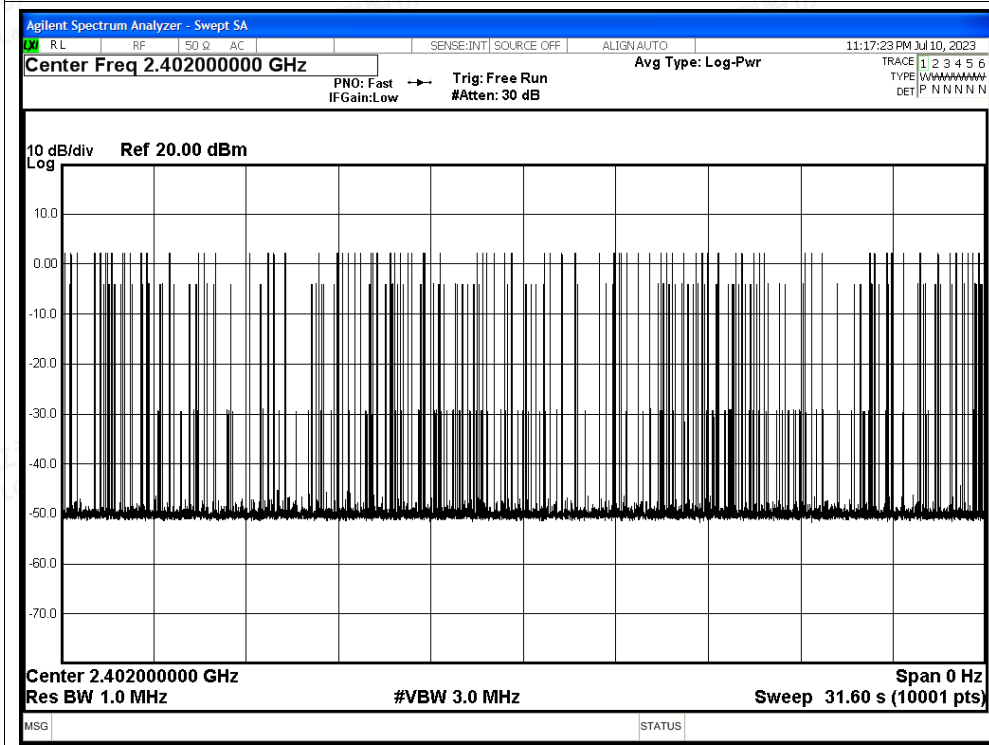




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

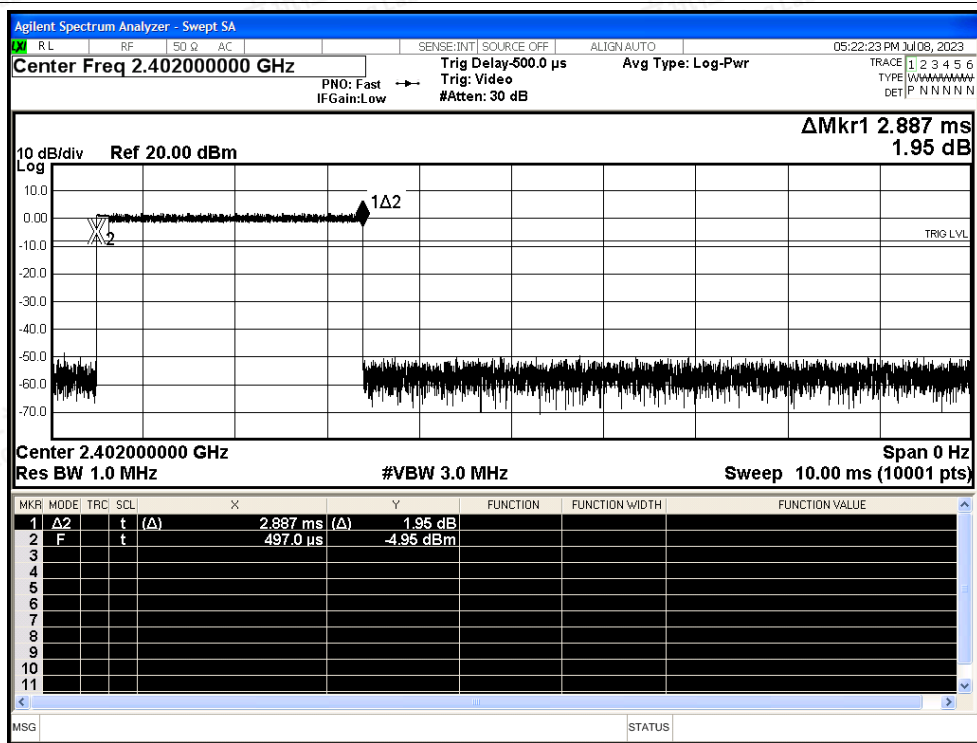


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

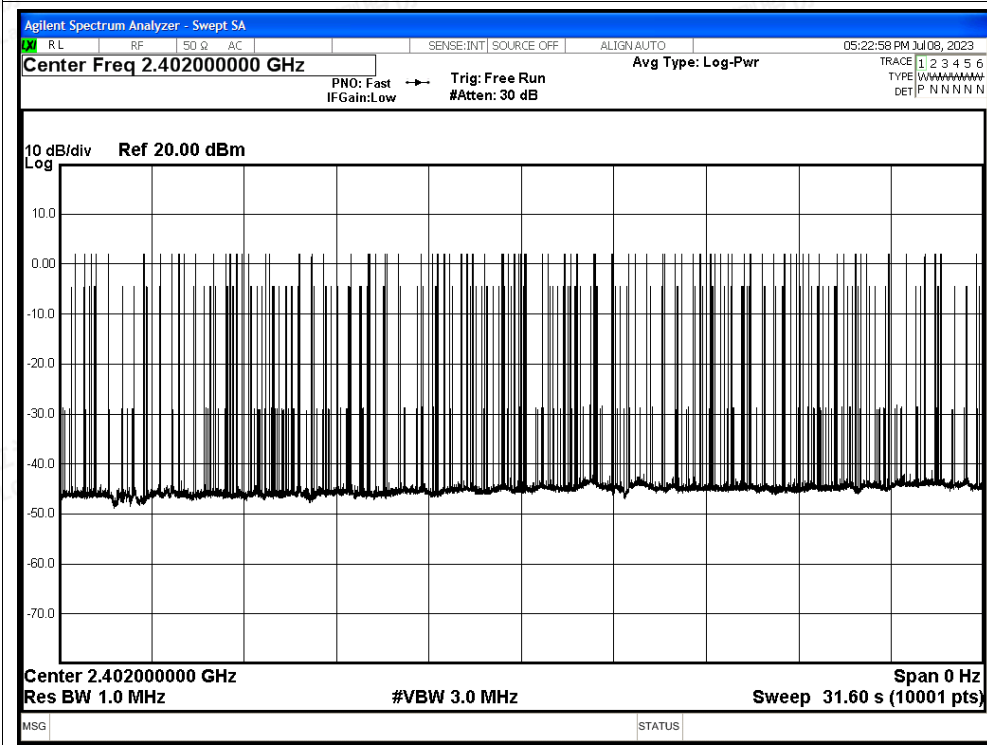




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

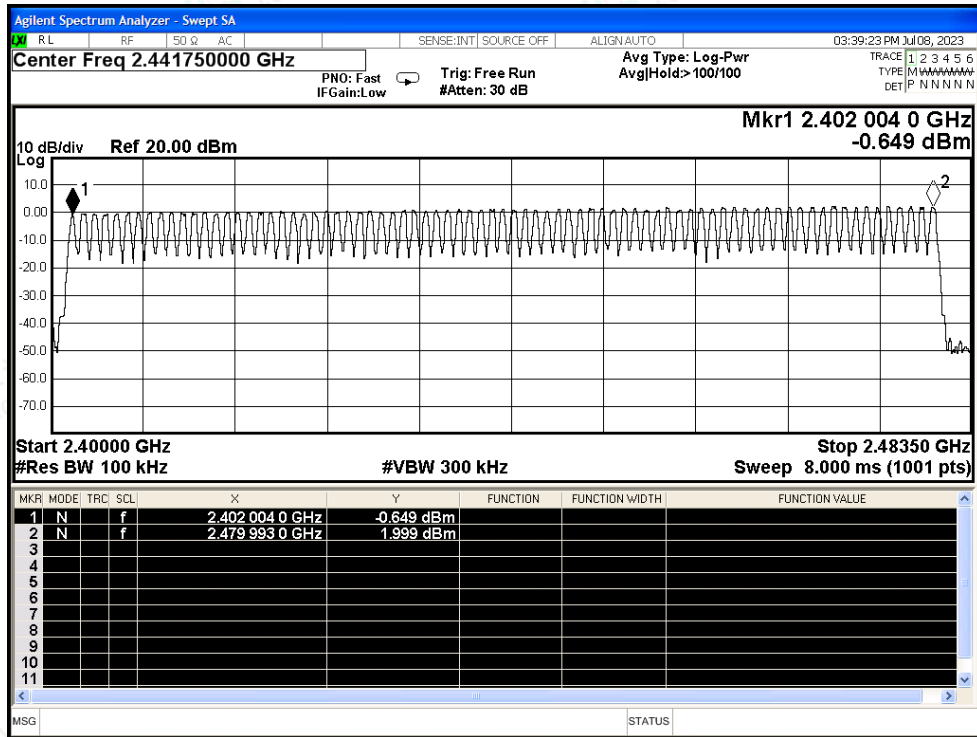
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



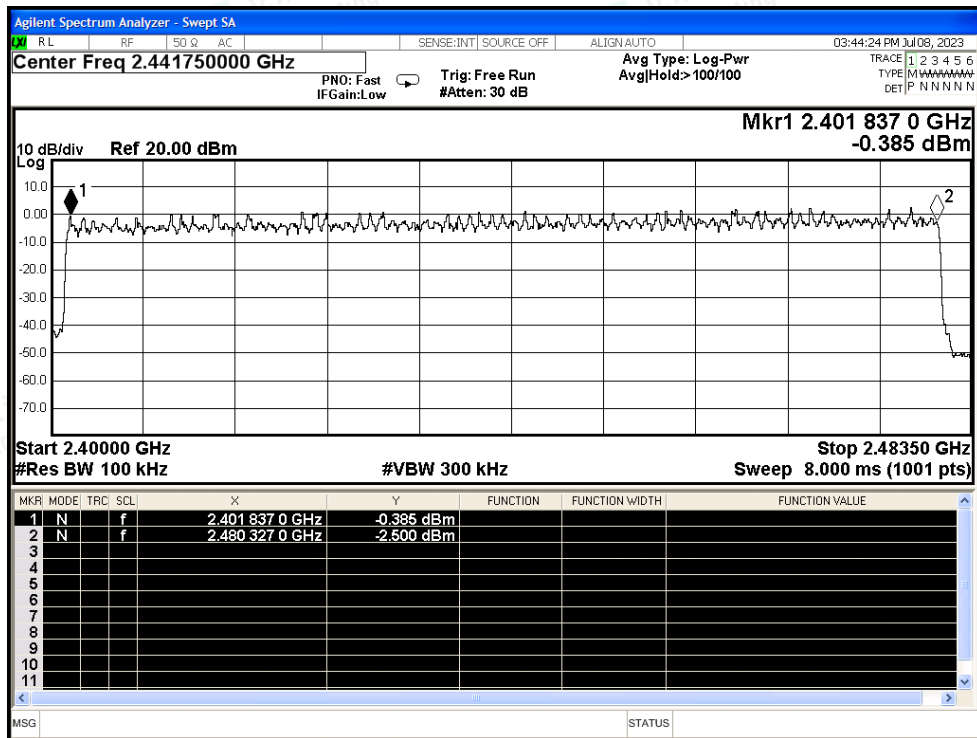


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

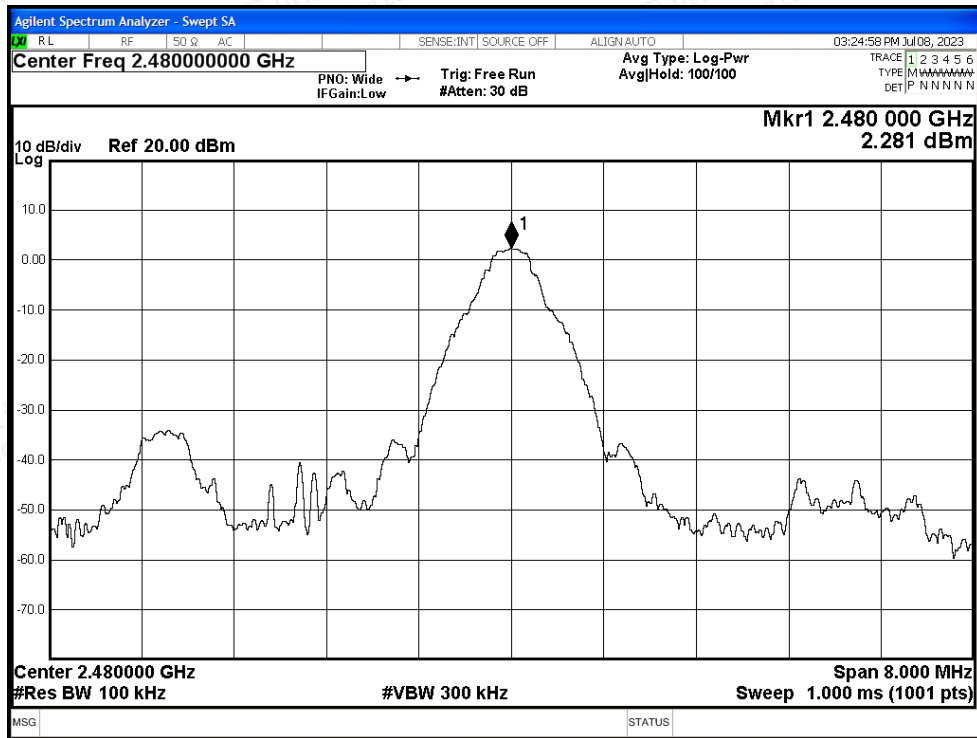
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-37.2	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-48.18	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-38.88	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-50.72	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-40.13	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-47.88	-20	Pass



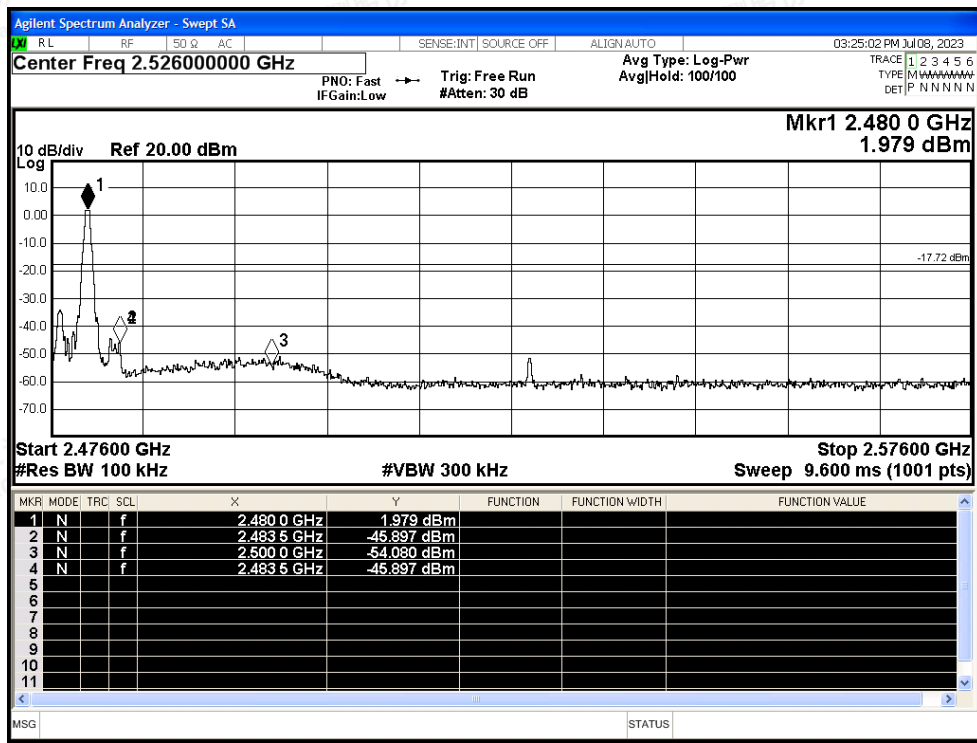
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

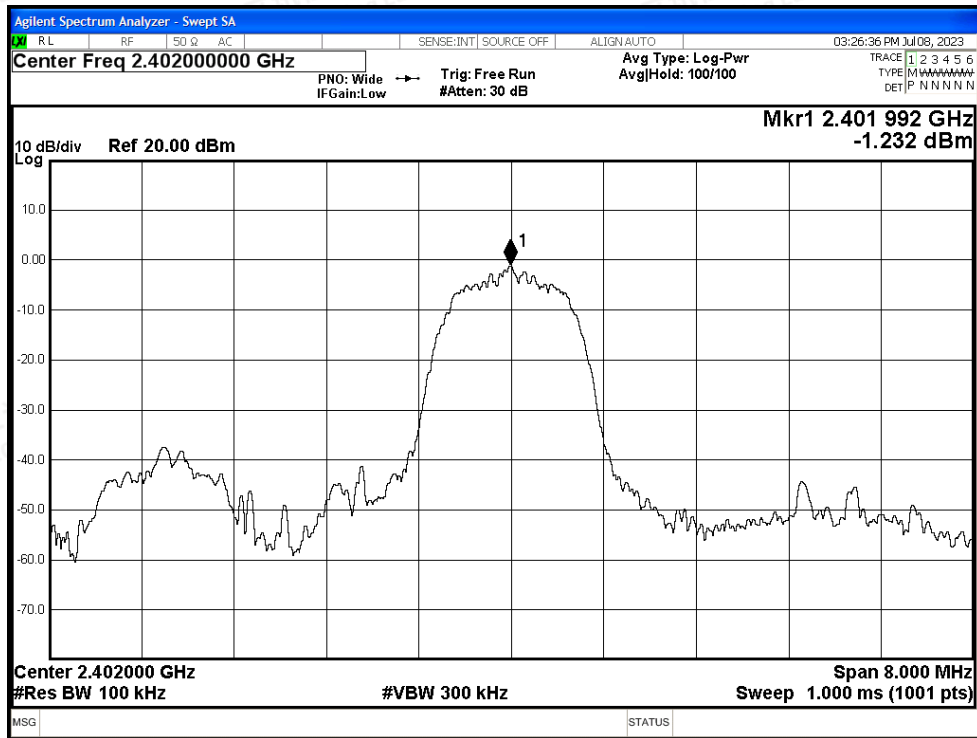


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

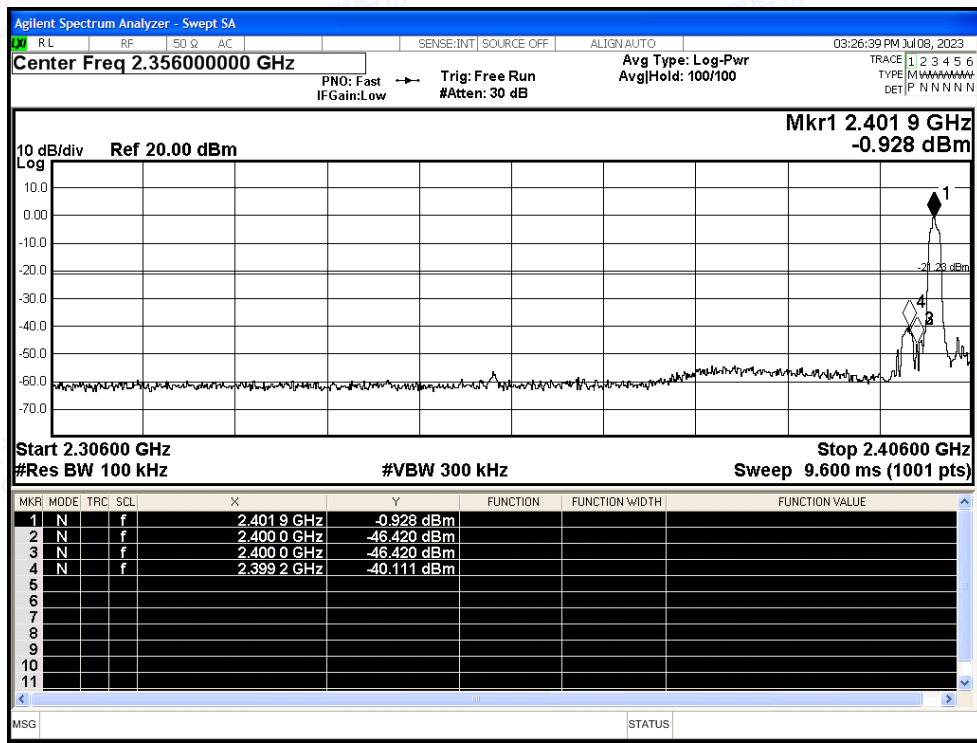




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

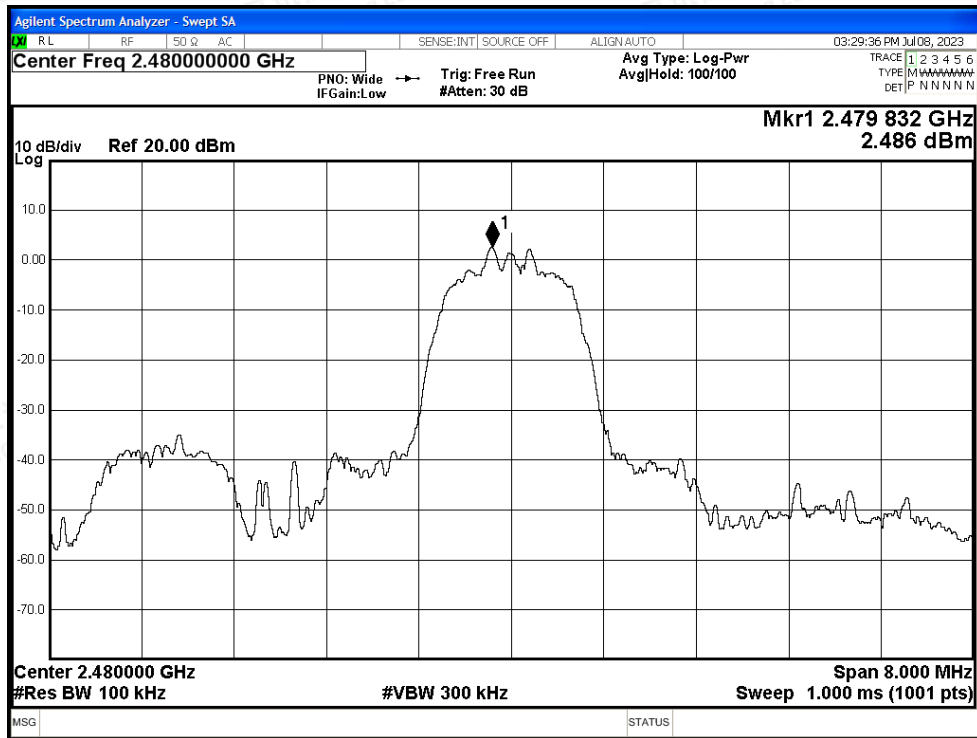


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

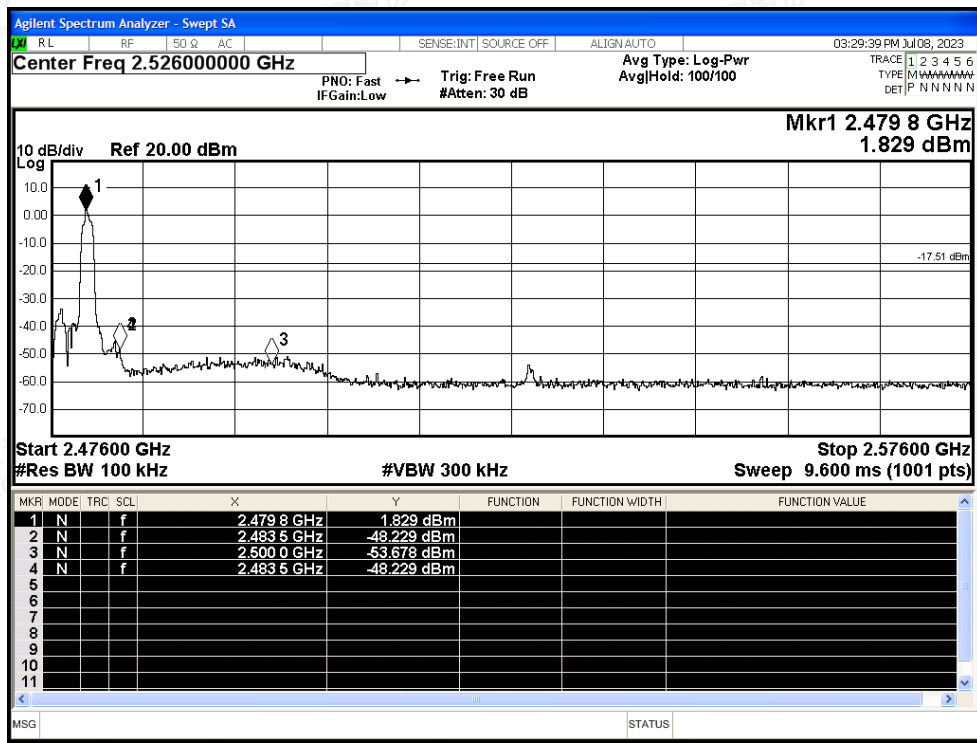




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

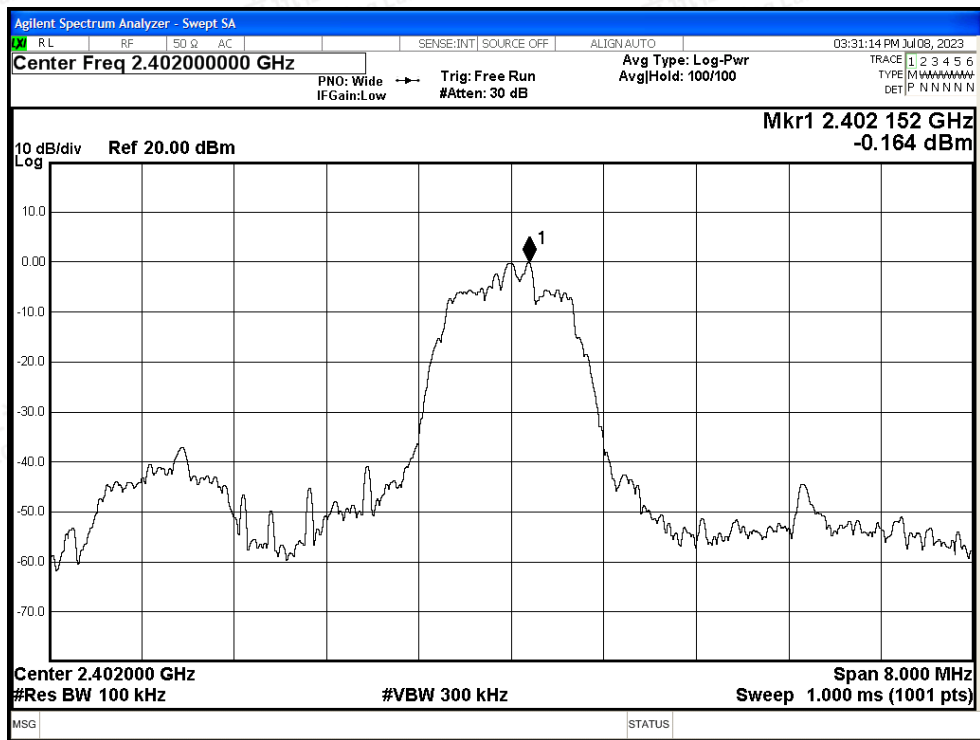


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

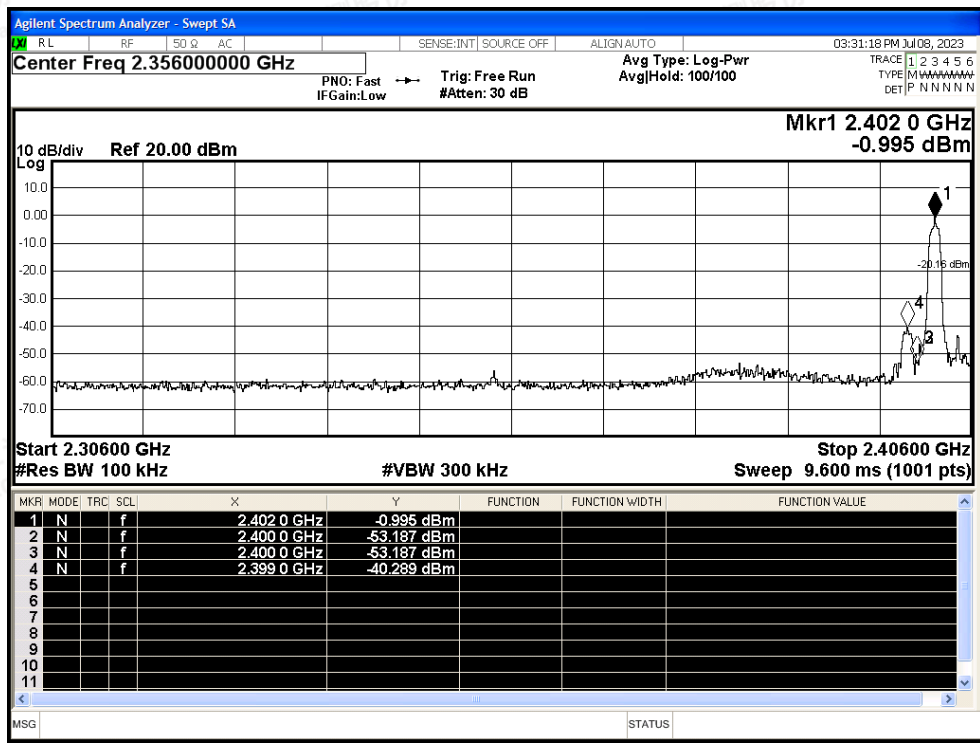




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

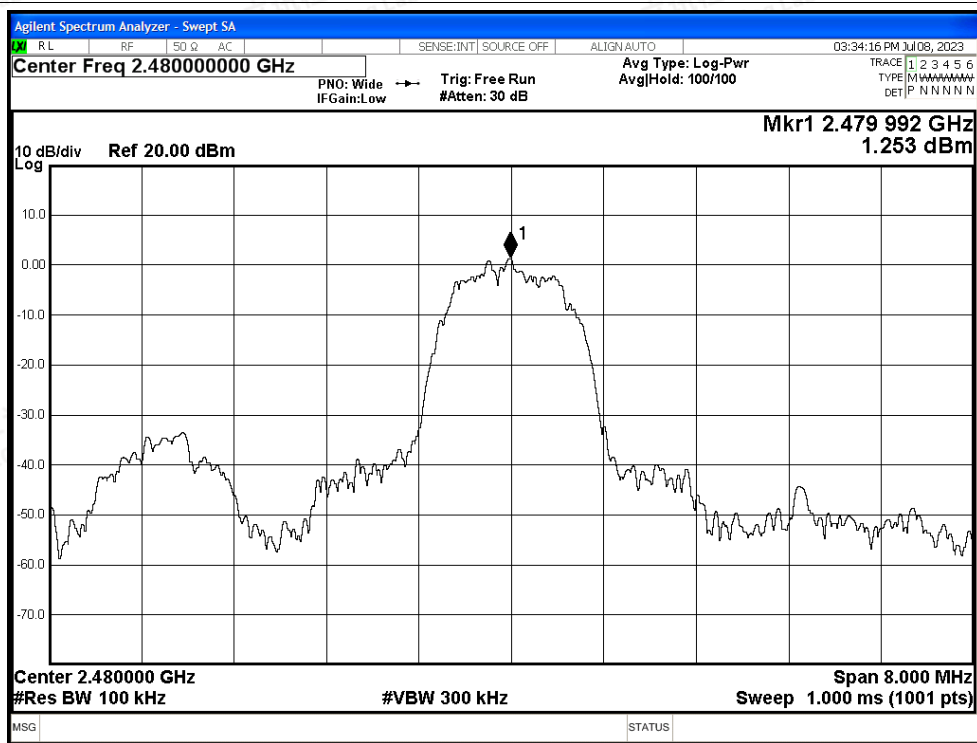


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

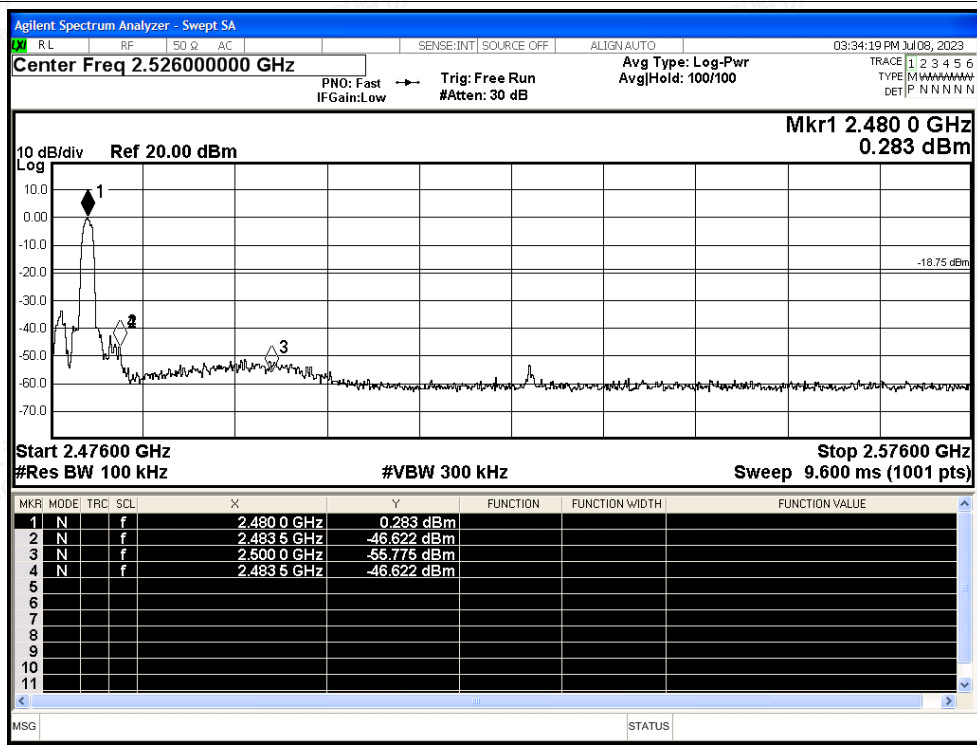




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

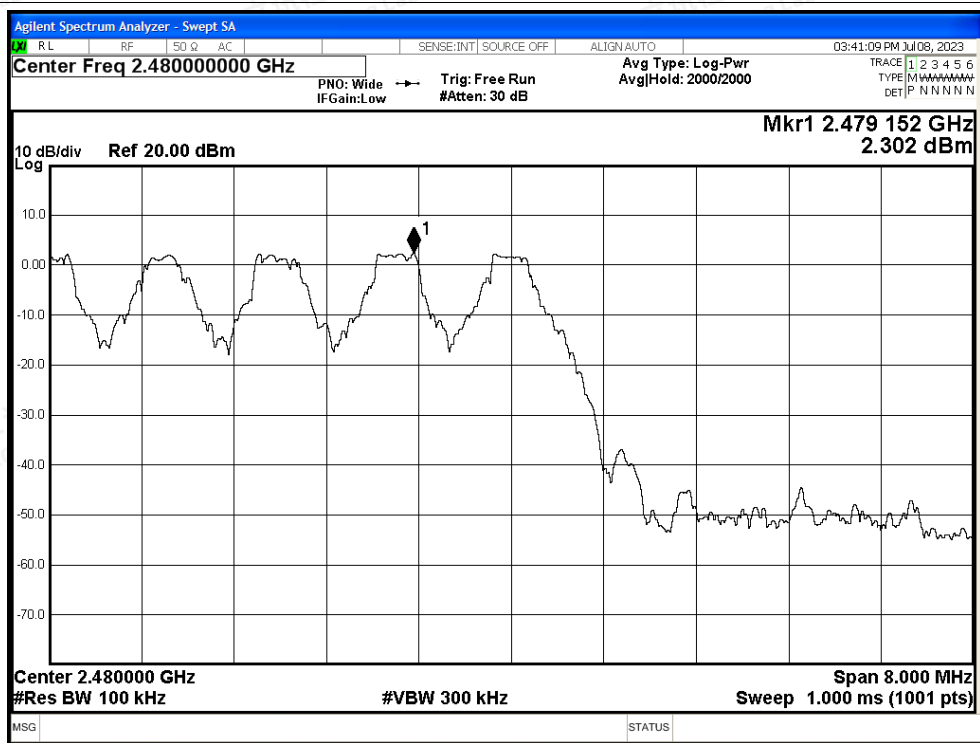
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.36	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-48.12	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-49.07	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-48.21	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.65	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.14	-20	Pass



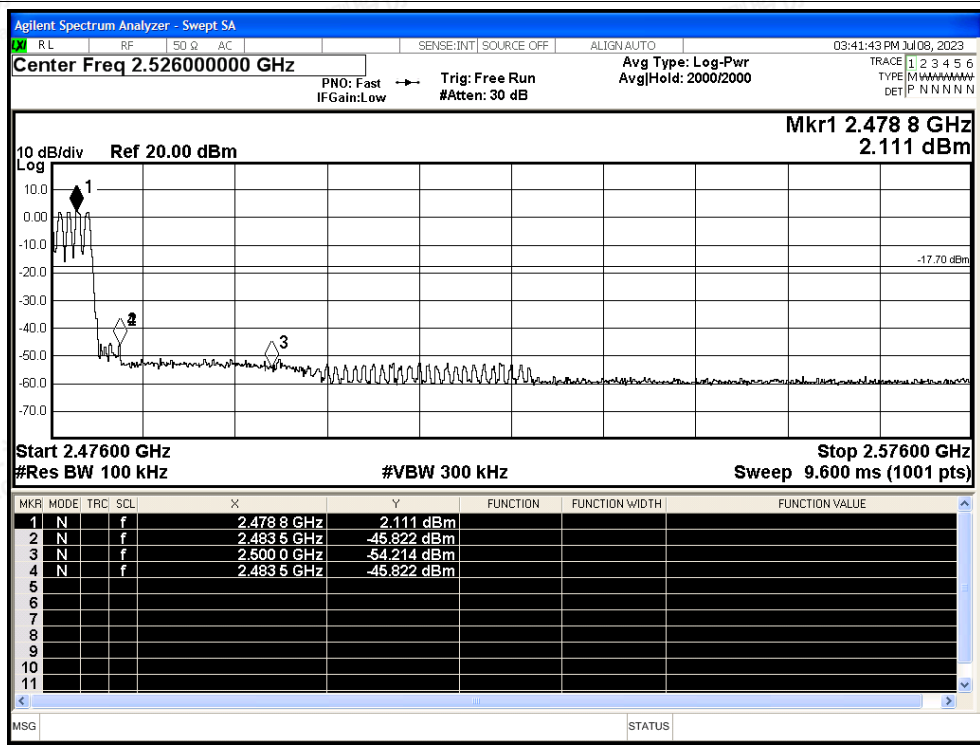
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

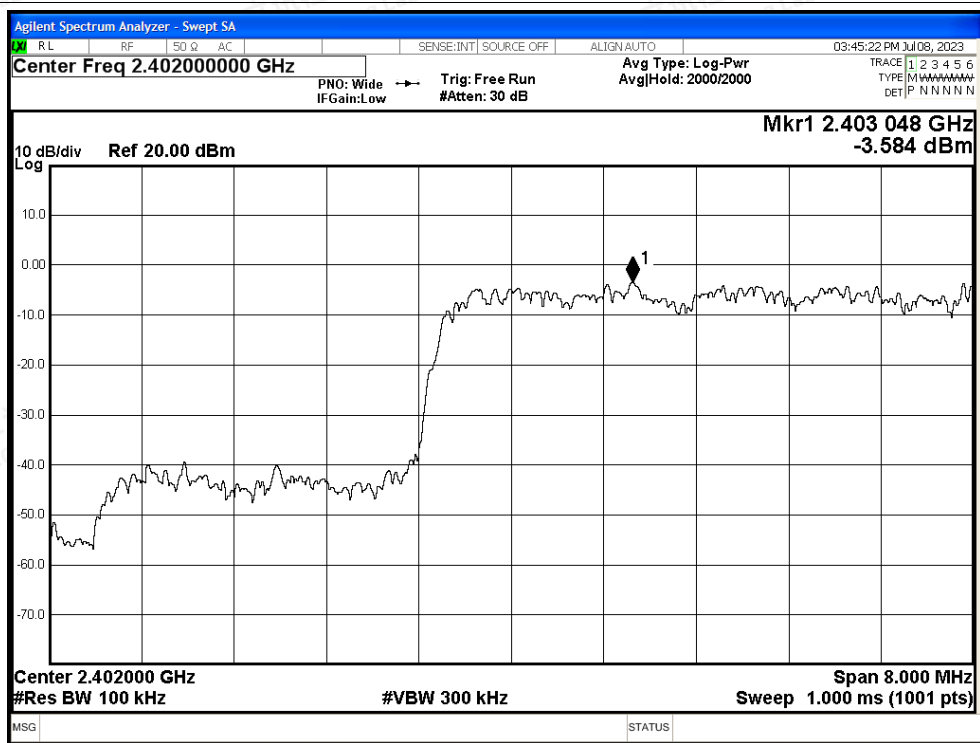


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

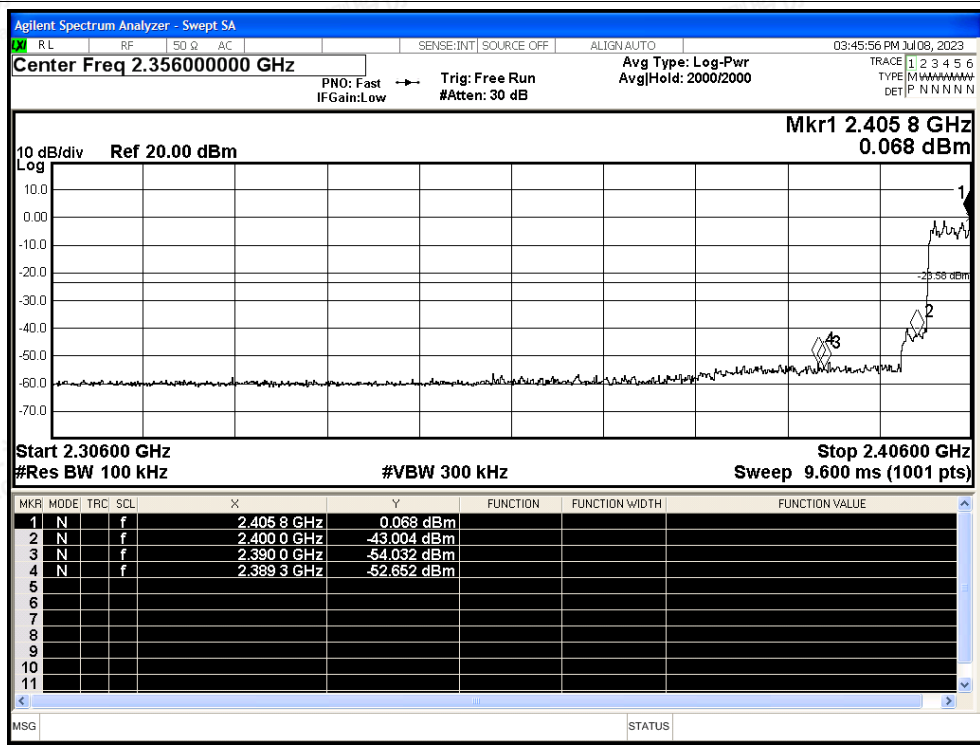




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

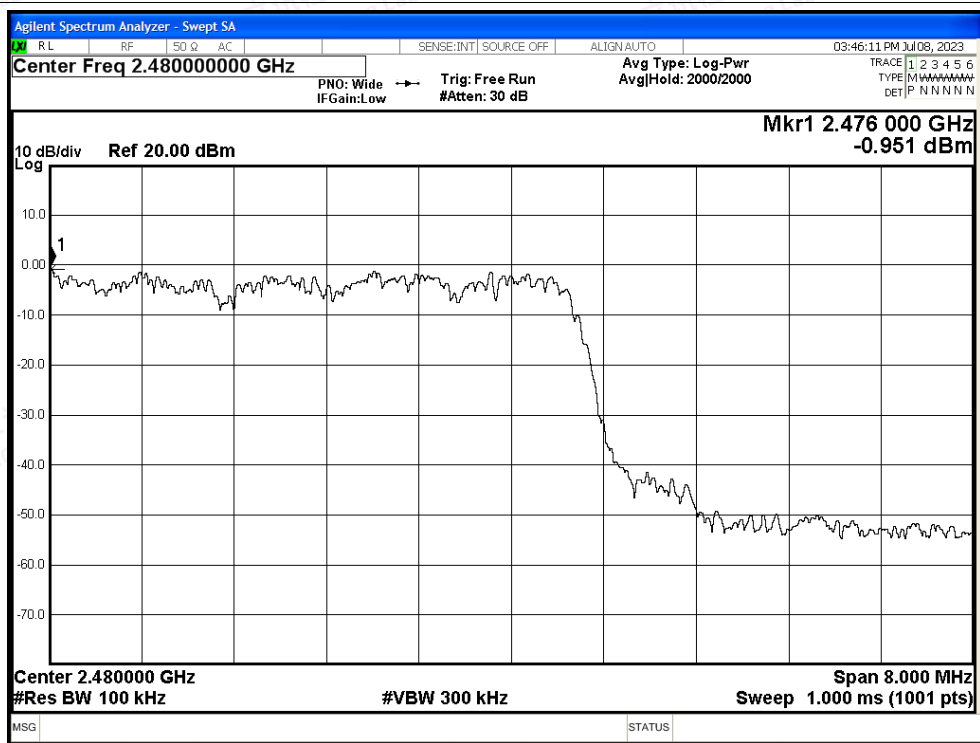


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

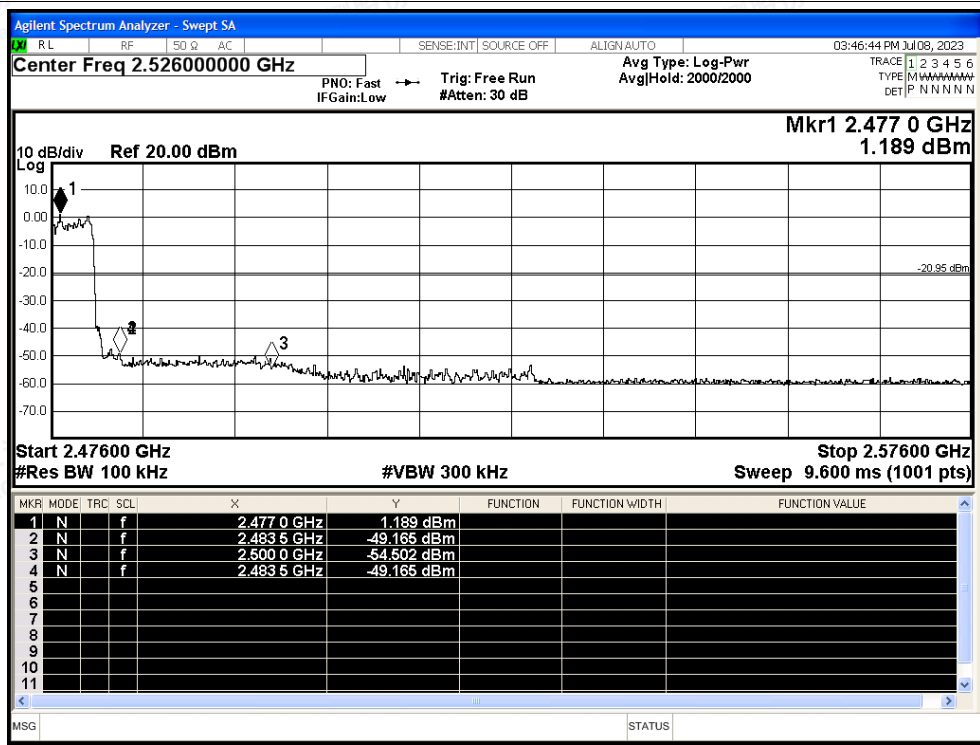




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

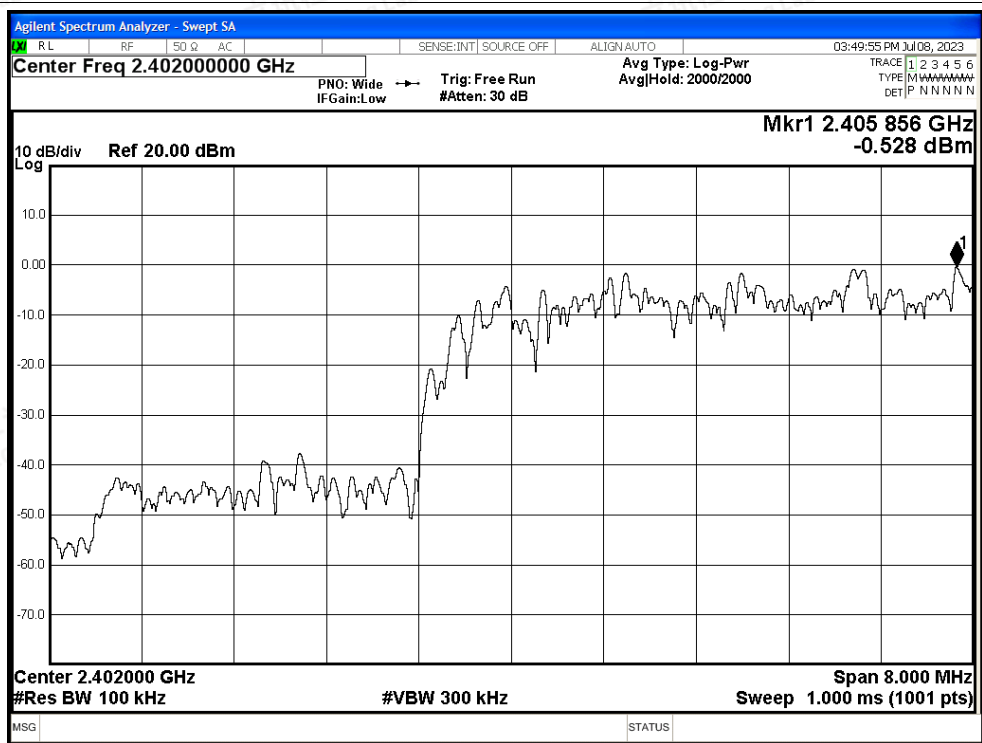


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

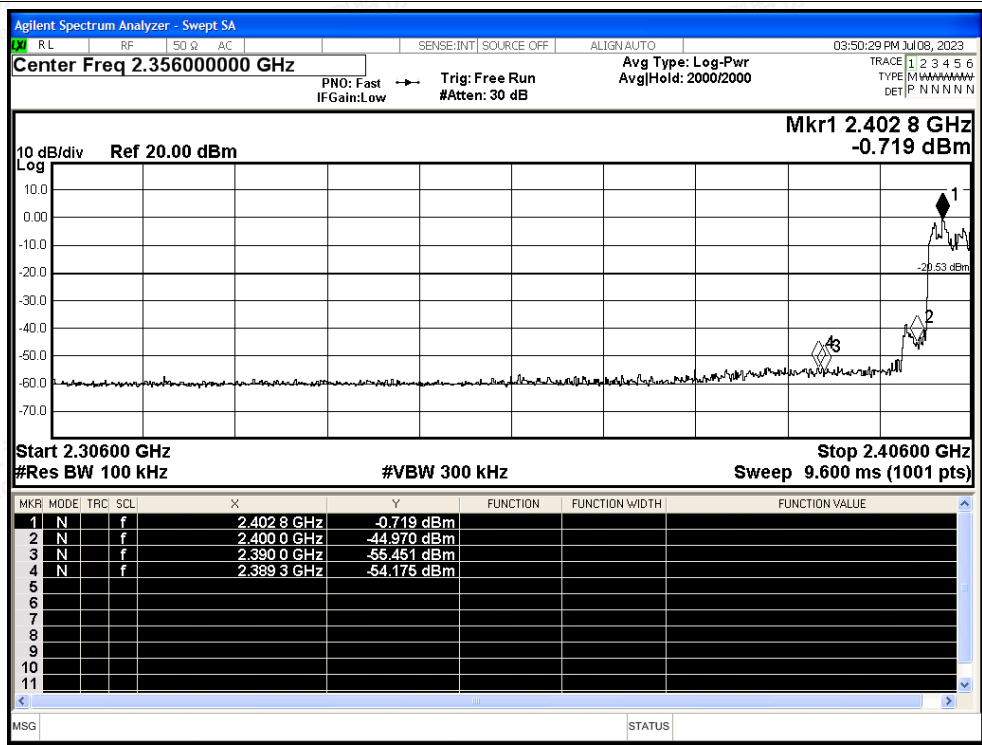




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

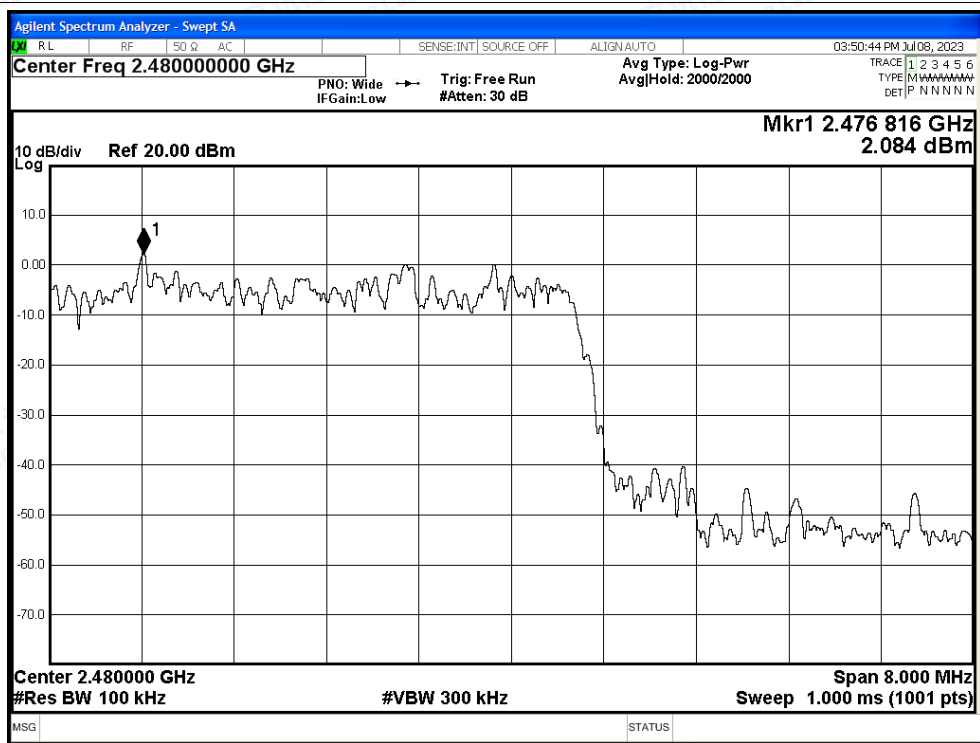


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

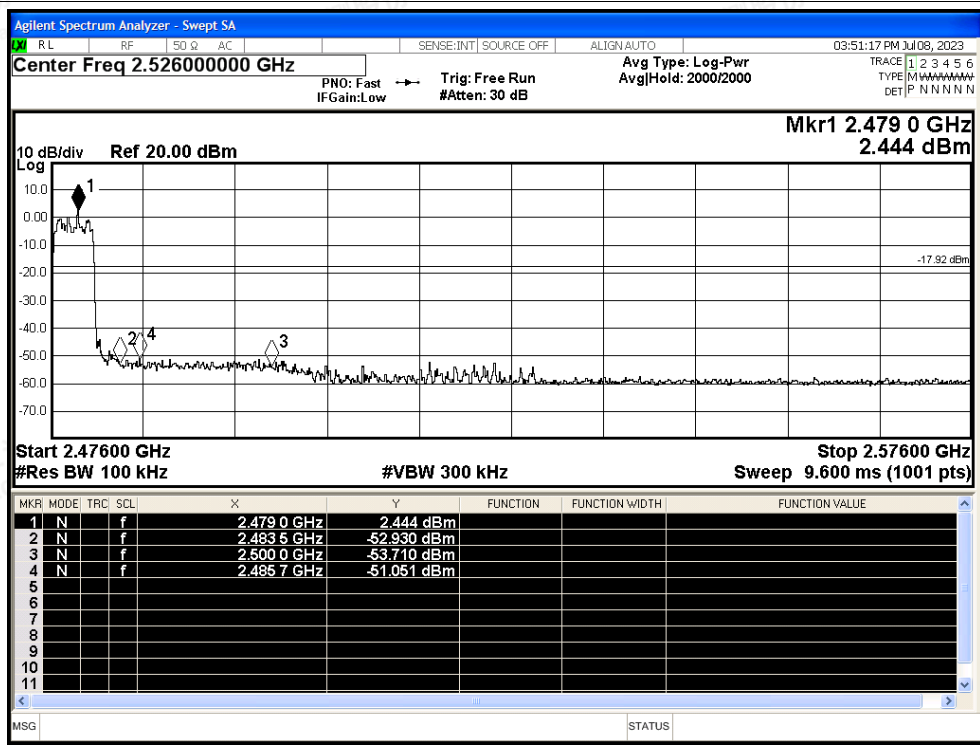




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-42.89	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.48	-20	Pass
NVNT	1-DH5	2480	Ant1	-43.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.94	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.4	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.25	-20	Pass
NVNT	3-DH5	2402	Ant1	-42.95	-20	Pass
NVNT	3-DH5	2441	Ant1	-43.88	-20	Pass
NVNT	3-DH5	2480	Ant1	-43.43	-20	Pass

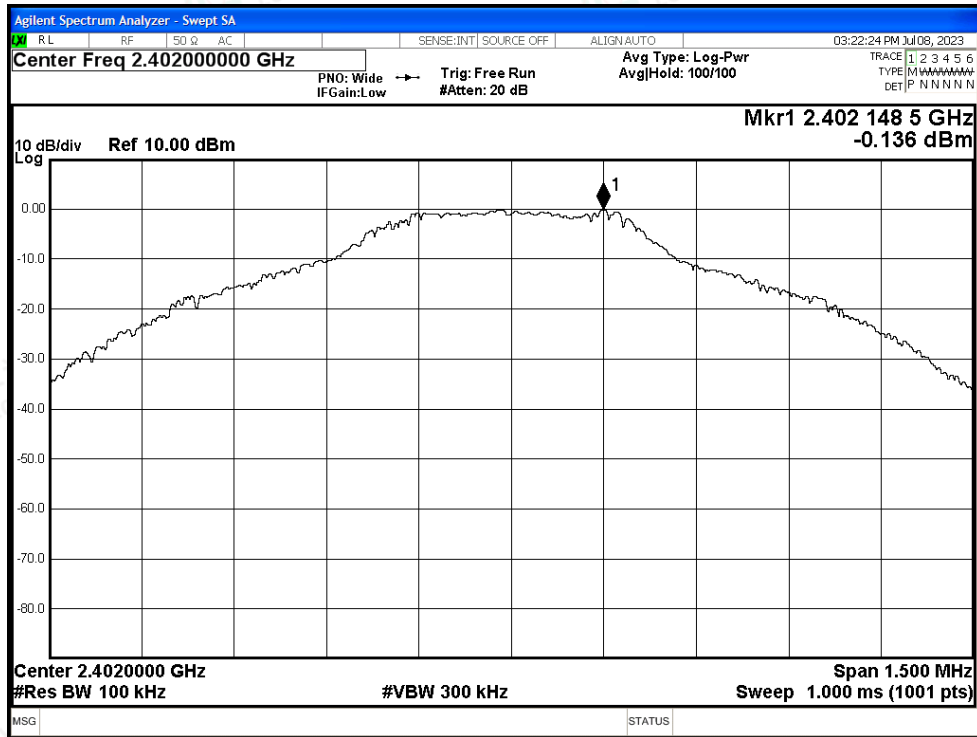


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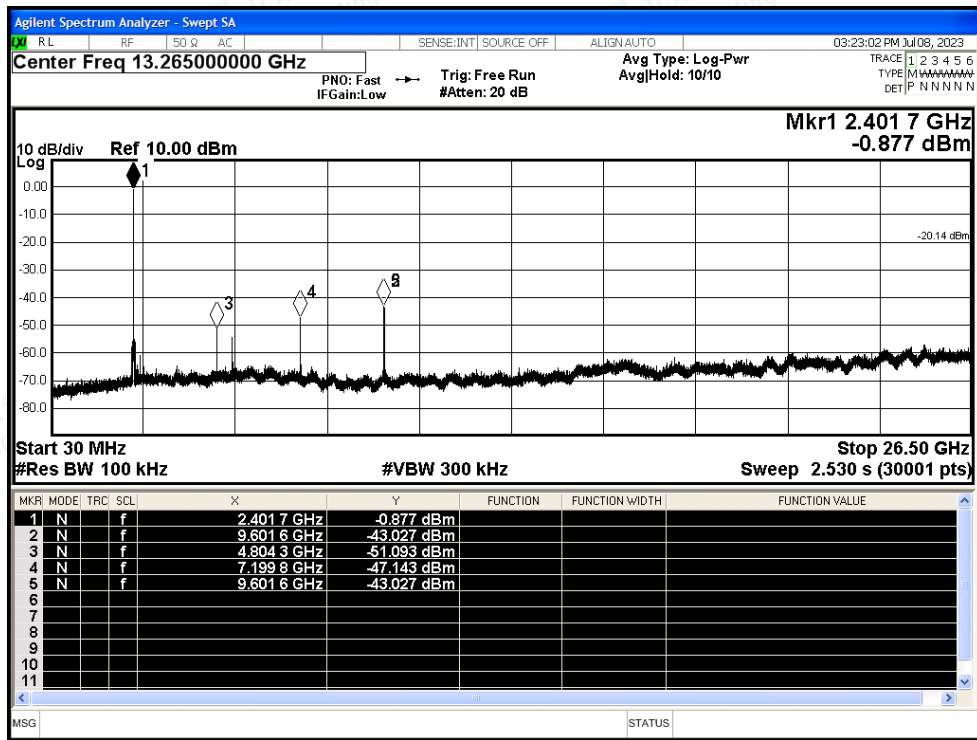


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

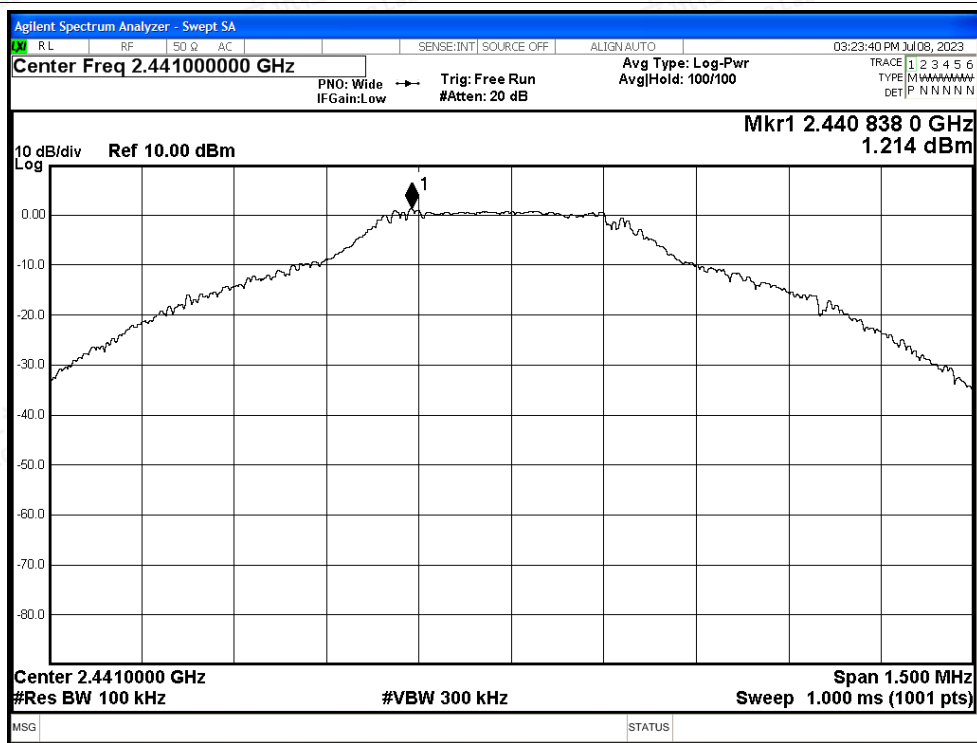


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

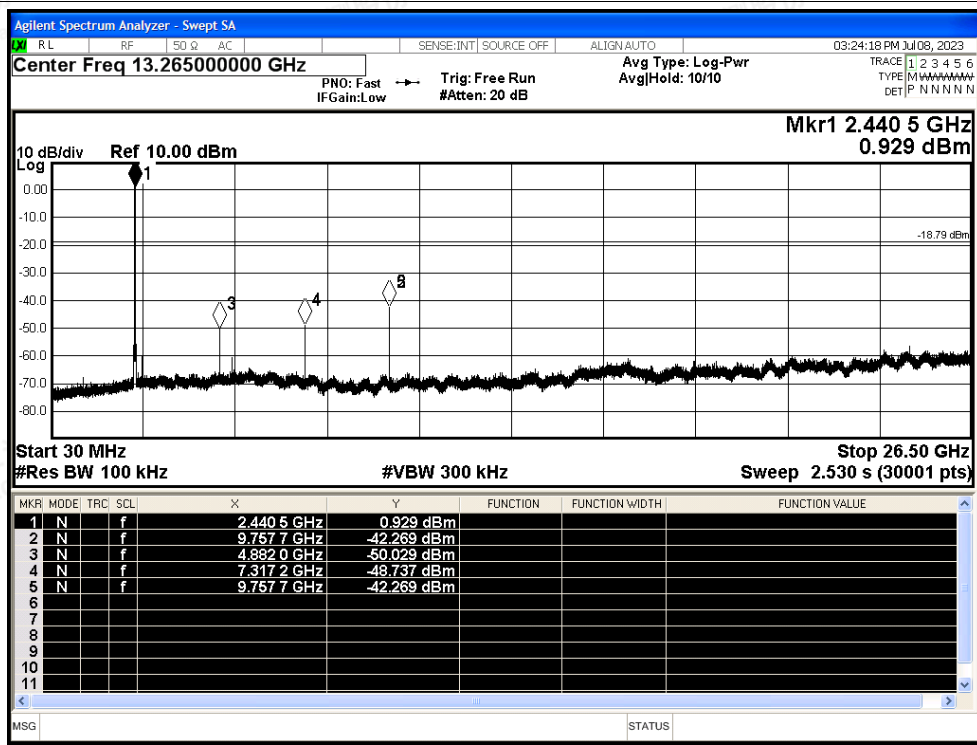




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

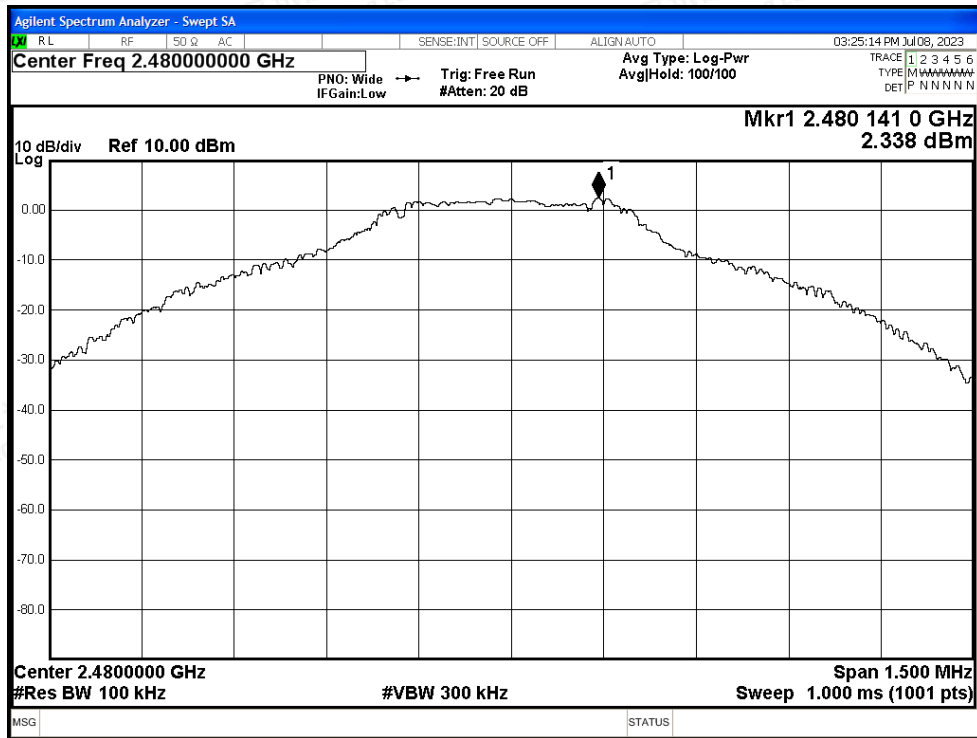


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

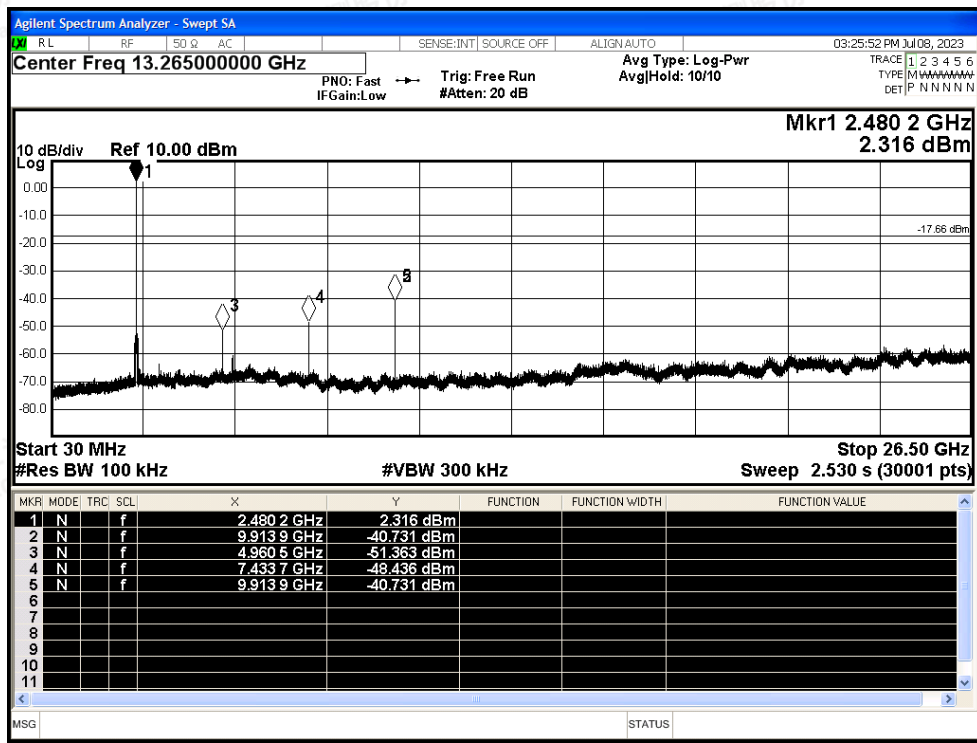




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

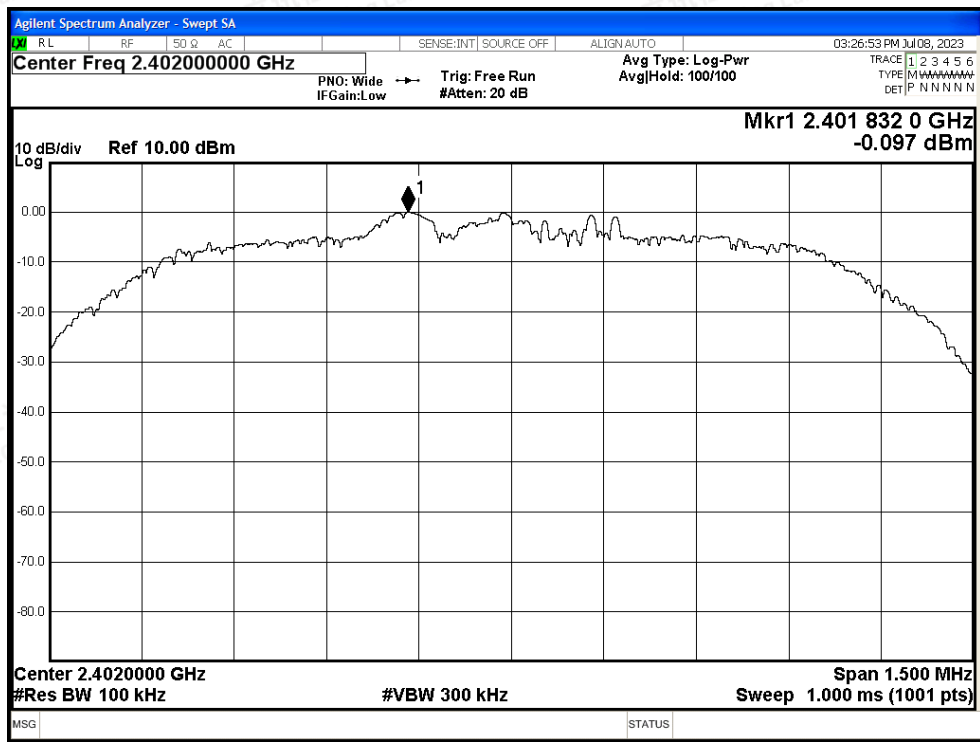


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

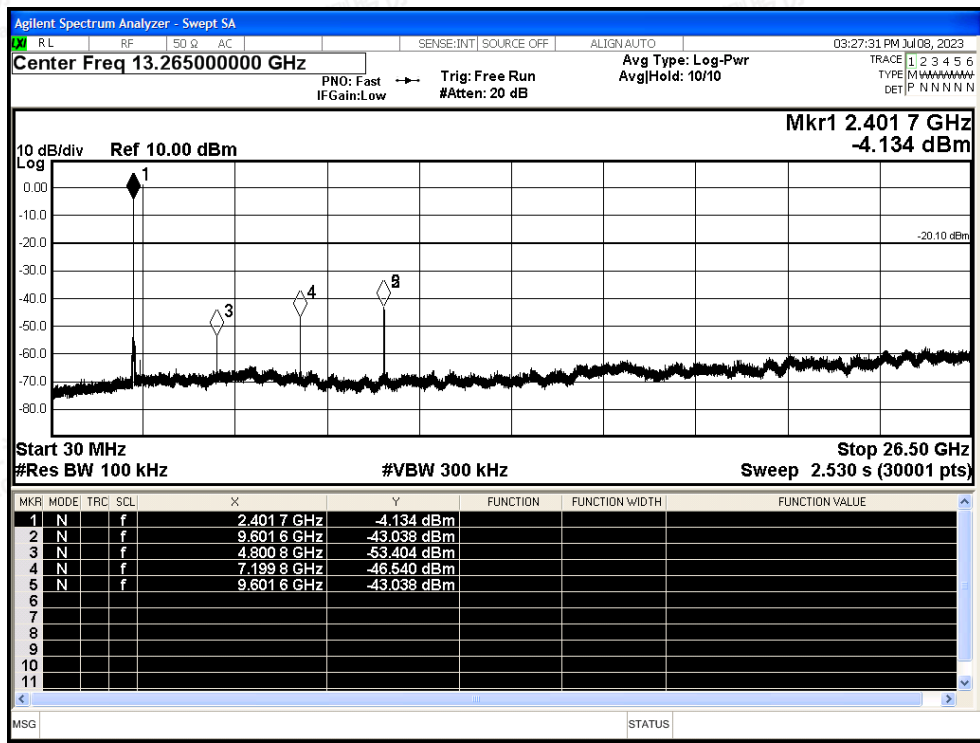




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

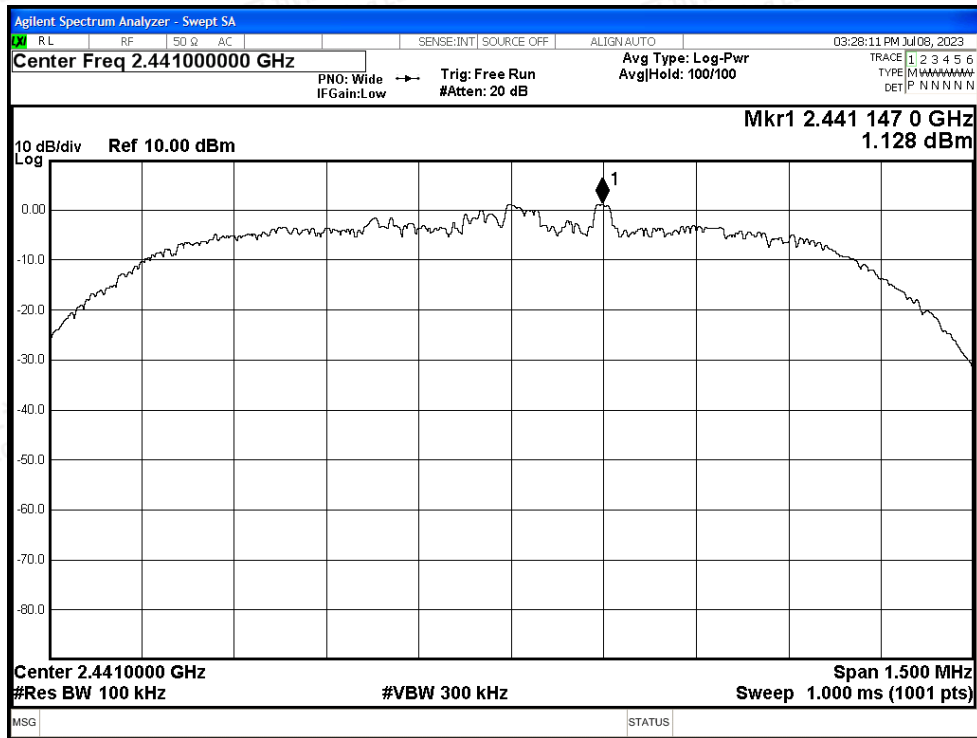


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

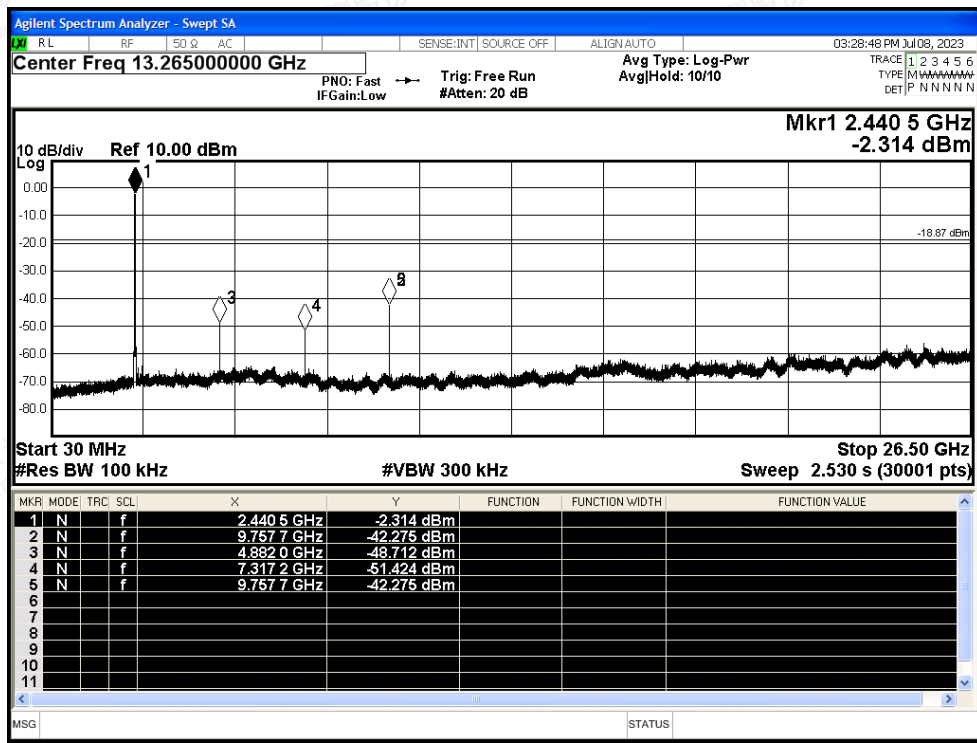




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

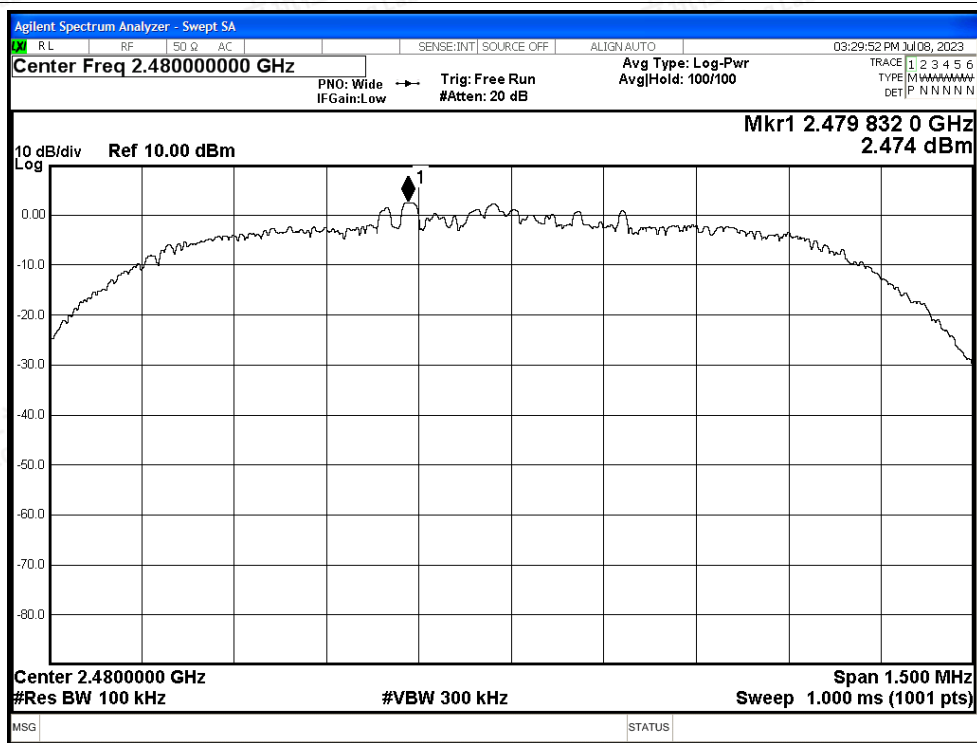


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

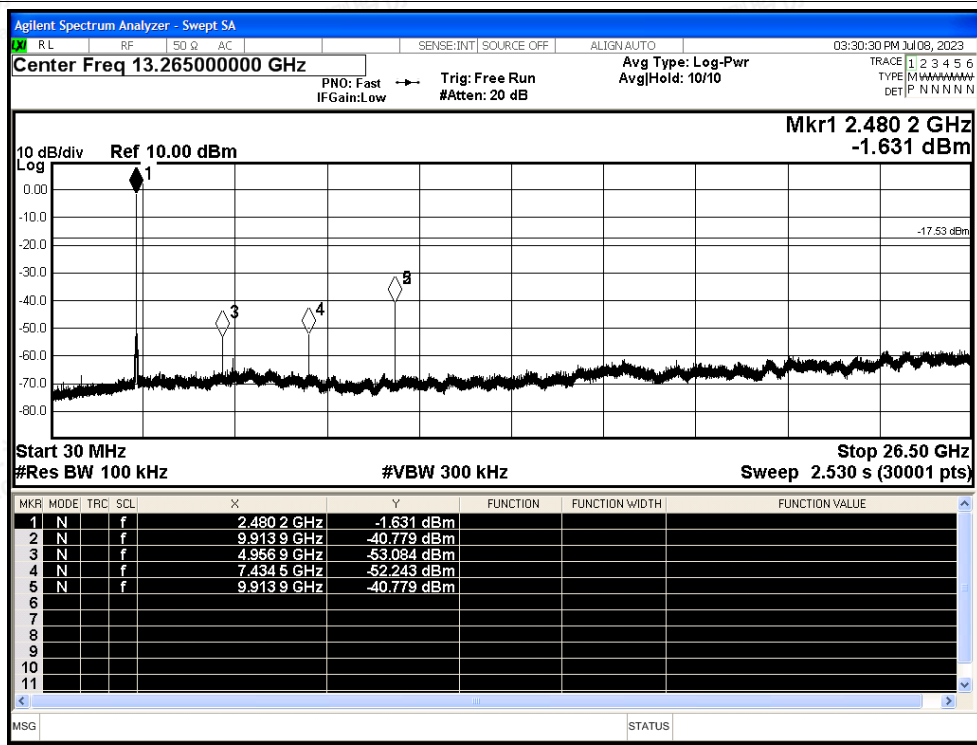




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

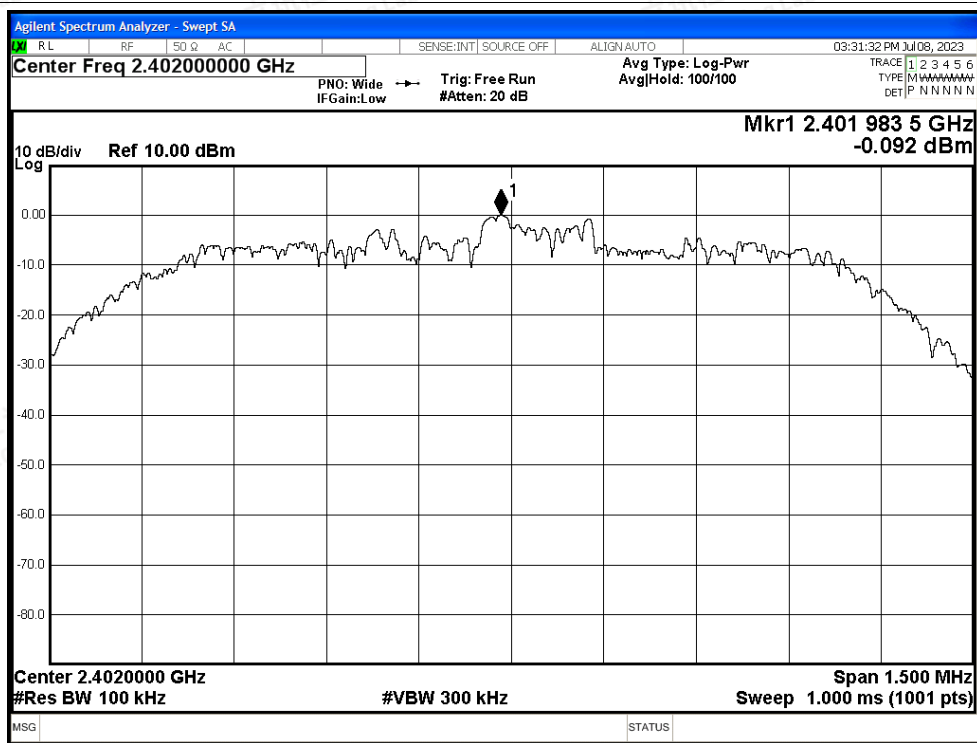


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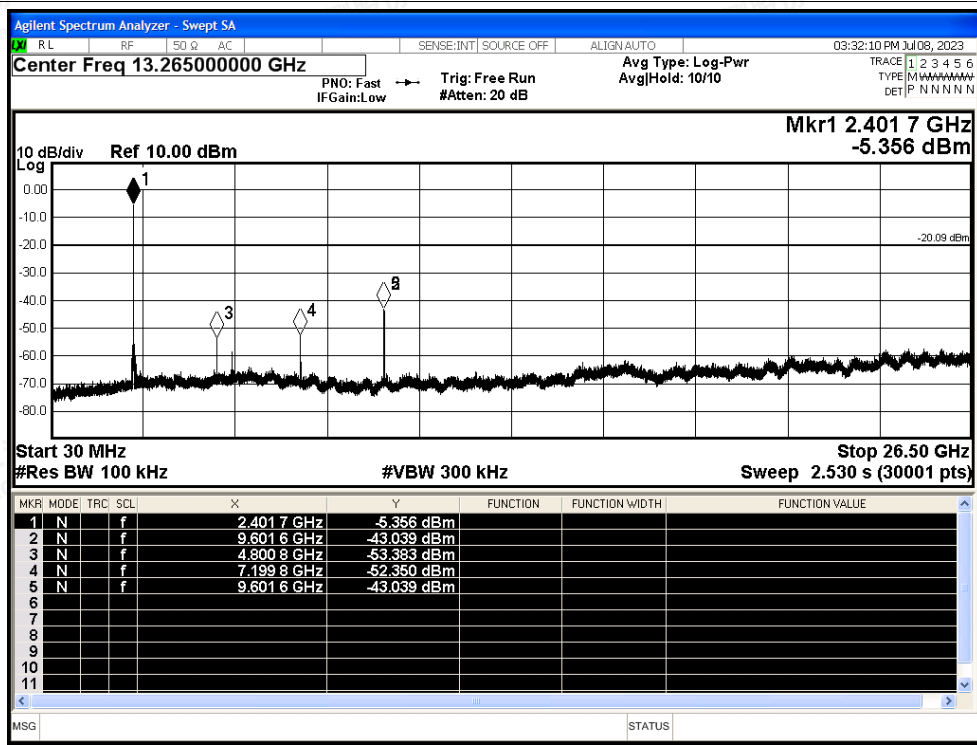




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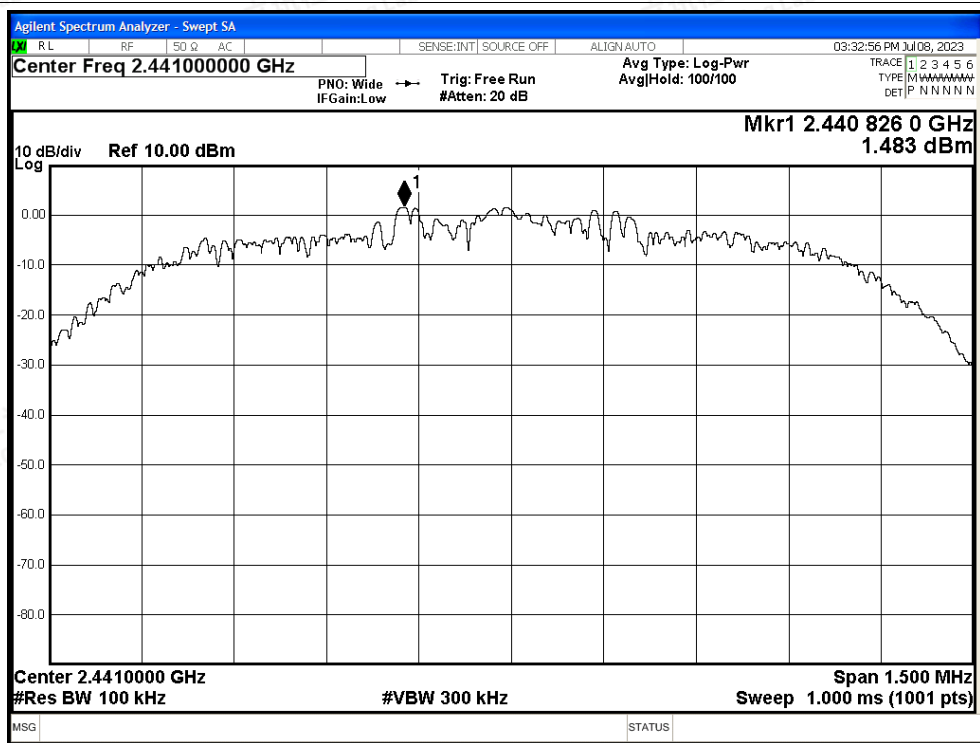


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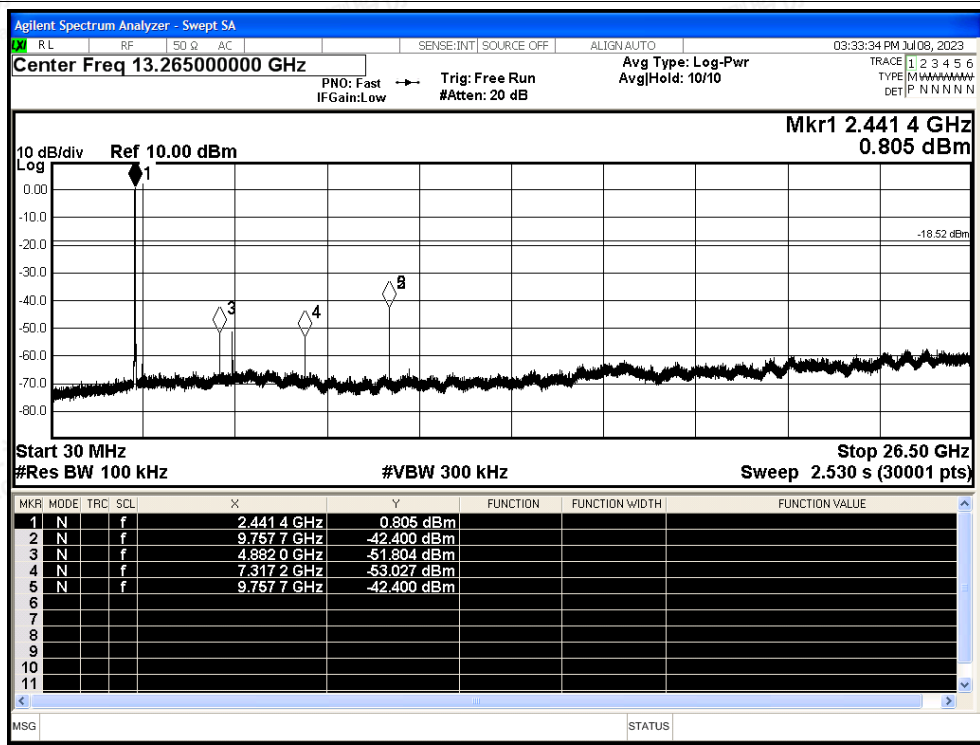




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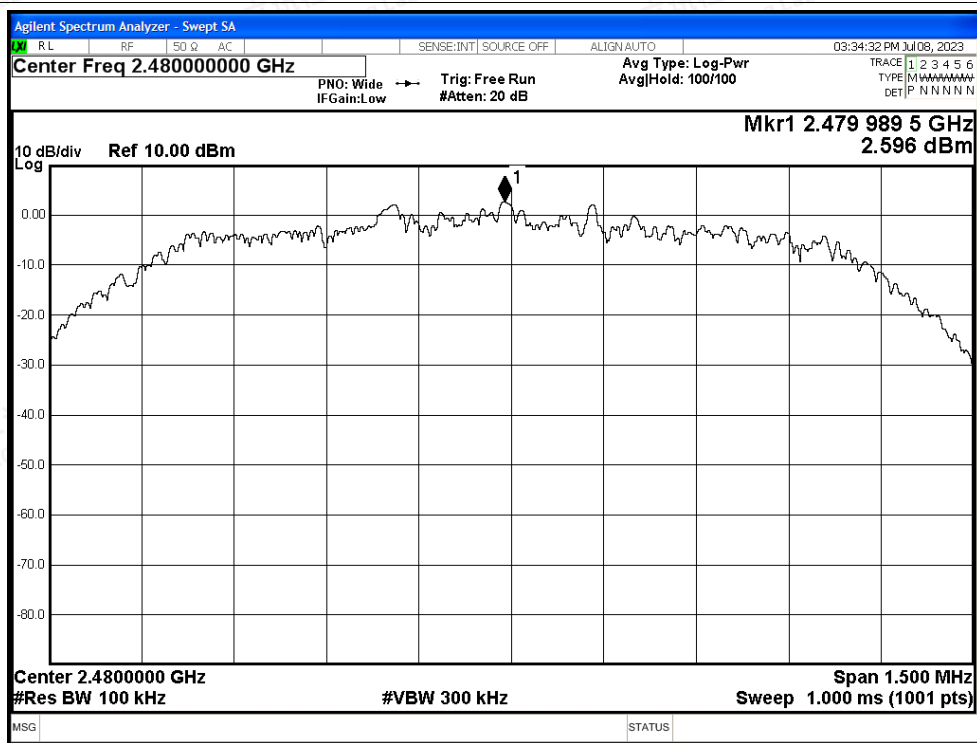


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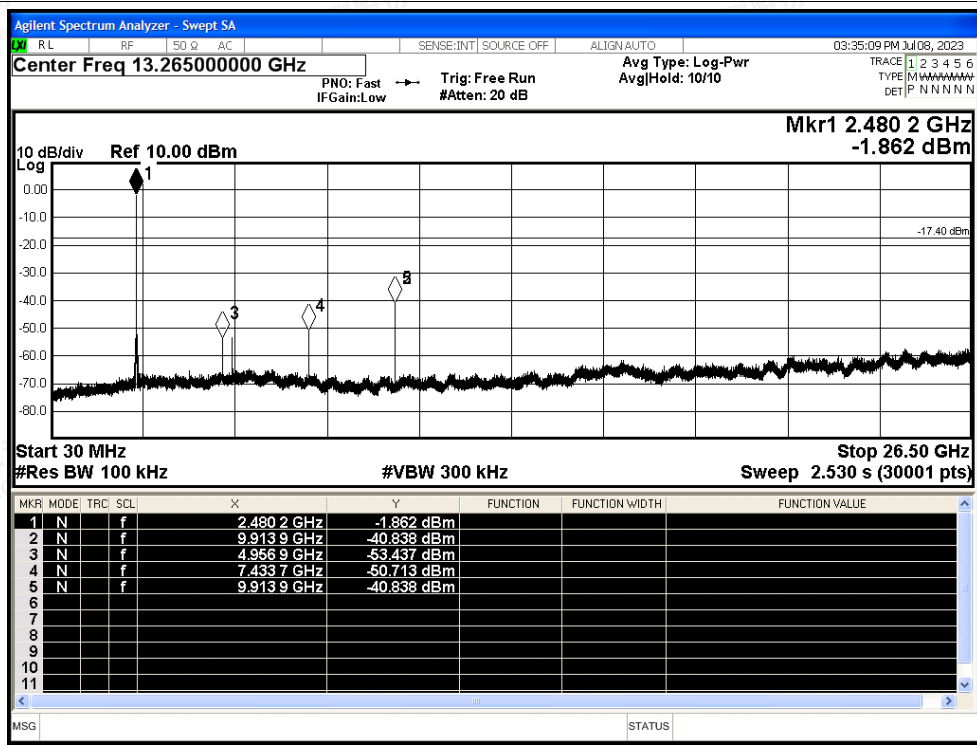




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

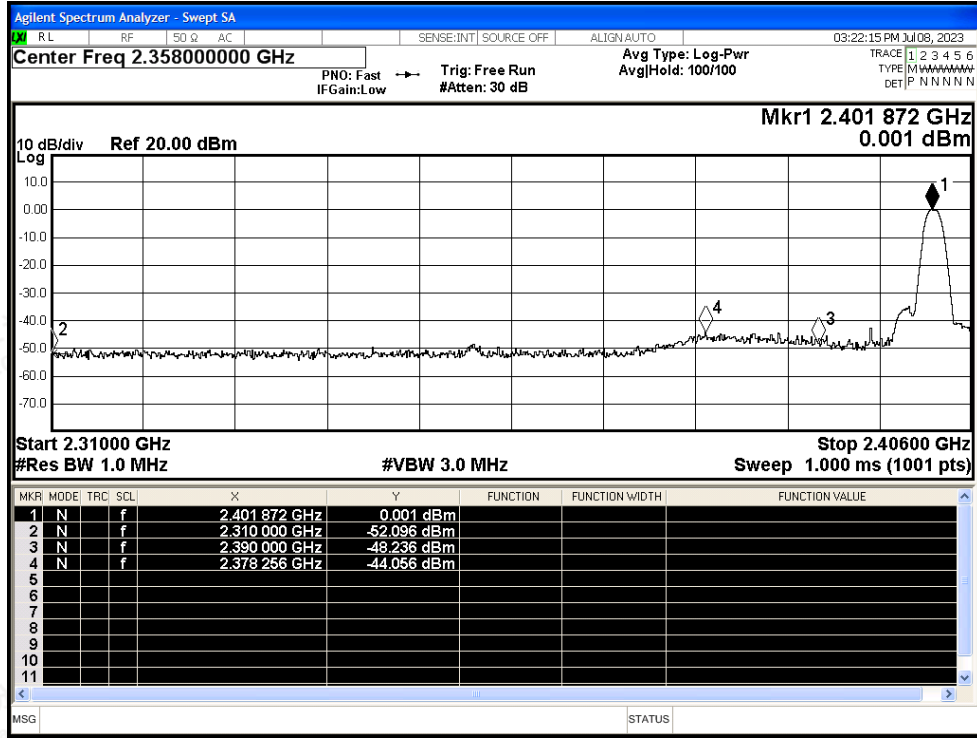
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-52.1	2.21	45.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-61.98	2.21	35.46	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.256	-44.06	2.21	53.38	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2380.656	-55.77	2.21	41.67	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.24	2.21	49.20	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.66	2.21	39.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-39.97	2.21	57.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.9	2.21	48.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-39.97	2.21	57.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-48.9	2.21	48.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-44.98	2.21	52.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.52	2.21	43.92	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.51	2.21	45.93	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.11	2.21	35.33	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.384	-44.17	2.21	53.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.984	-55.85	2.21	41.59	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.53	2.21	48.91	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.58	2.21	39.86	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-43.23	2.21	54.21	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.04	2.21	45.40	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.568	-38.38	2.21	59.06	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-52.04	2.21	45.40	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-43.26	2.21	54.18	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.26	2.21	44.18	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.79	2.21	45.65	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.04	2.21	35.40	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.664	-44	2.21	53.44	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.944	-56.73	2.21	40.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.9	2.21	49.54	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.41	2.21	39.03	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-41.77	2.21	55.67	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.75	2.21	44.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-40.45	2.21	56.99	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-52.75	2.21	44.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-43.46	2.21	53.98	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-55.68	2.21	41.76	Average	54	Pass



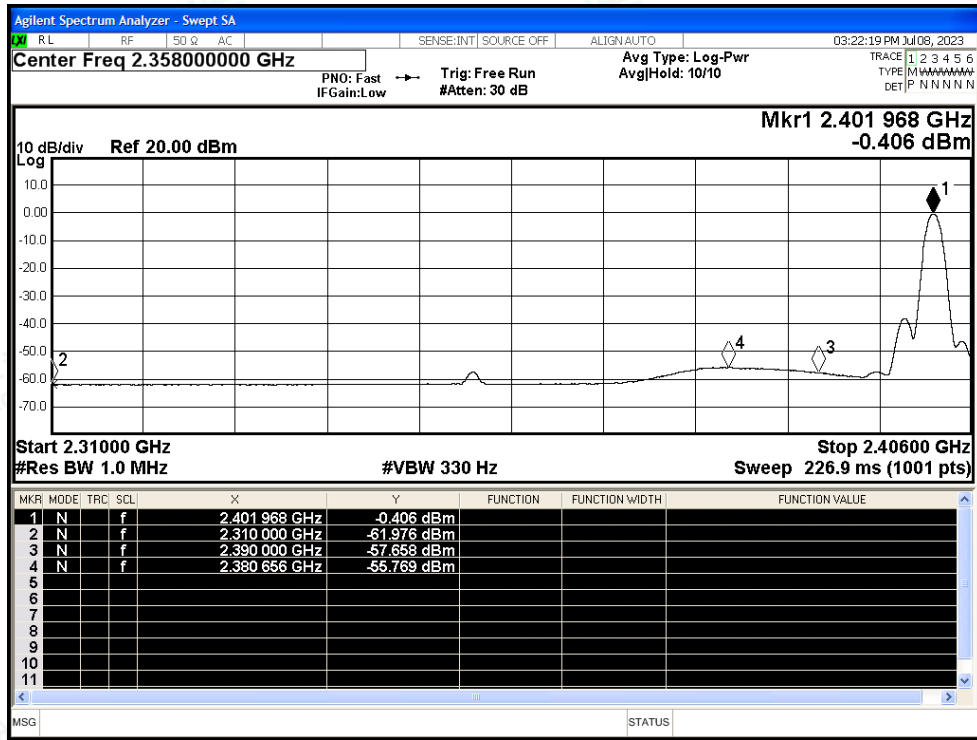


Test Graphs

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

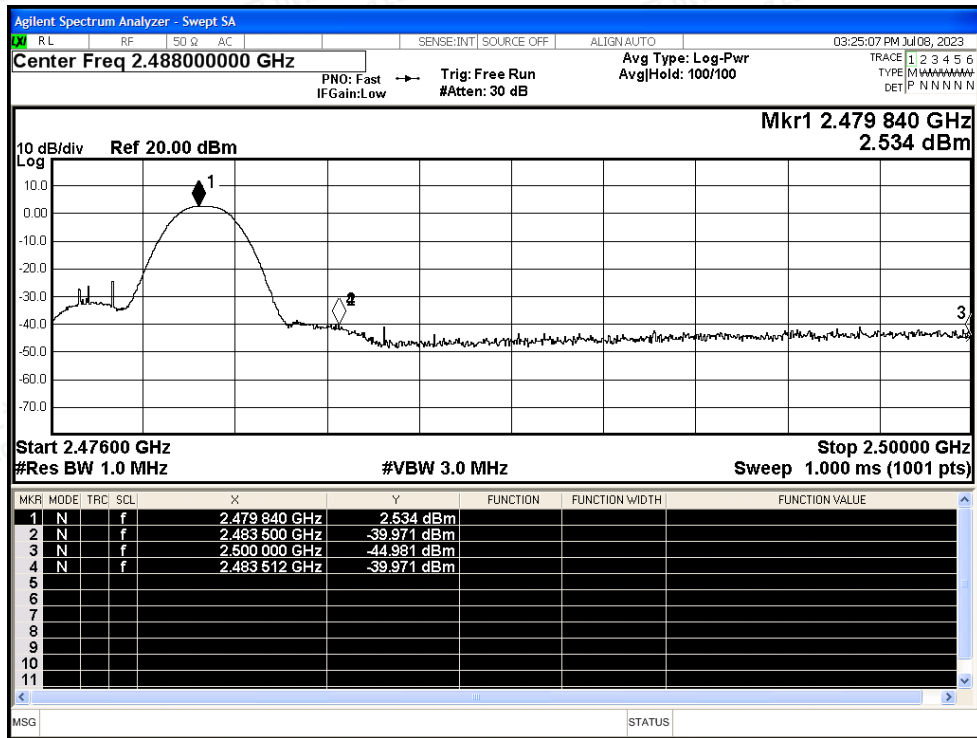


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

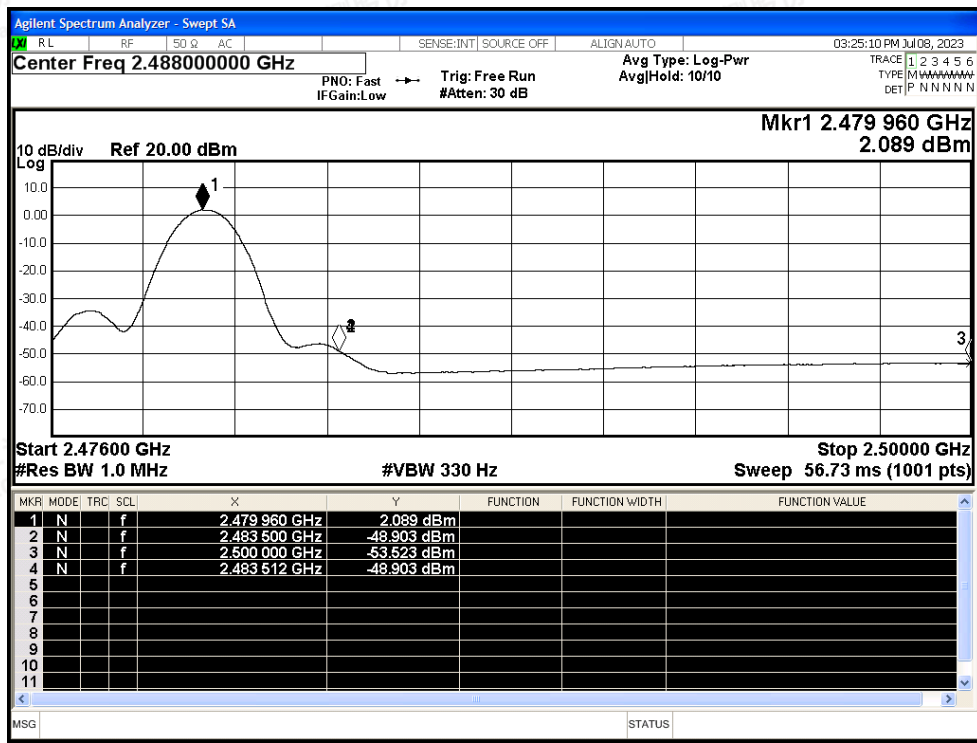




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

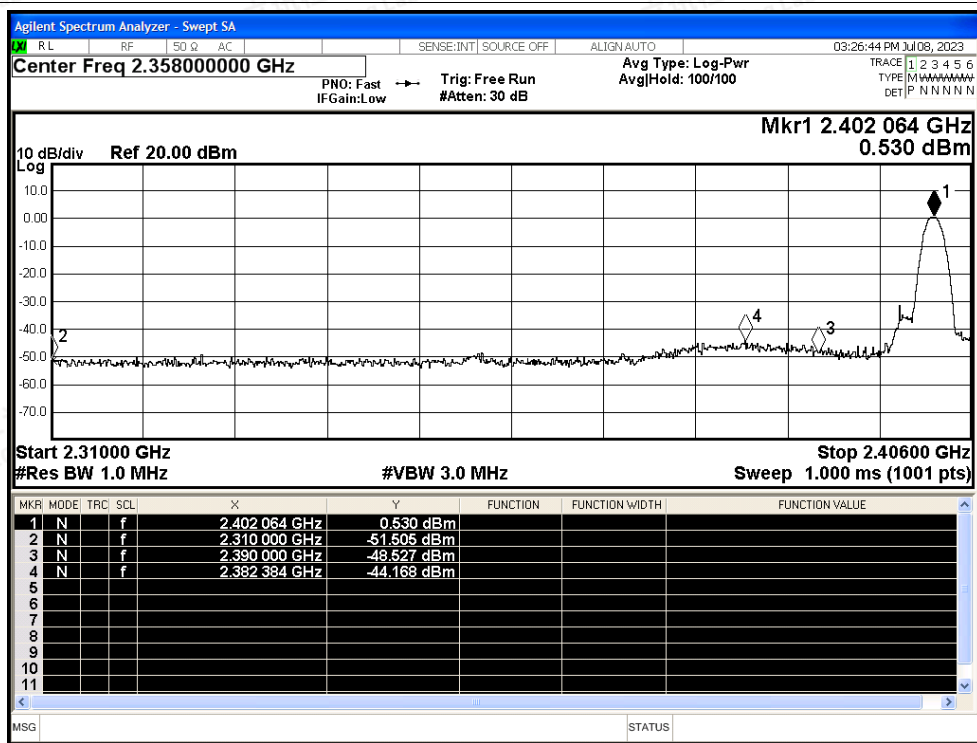


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

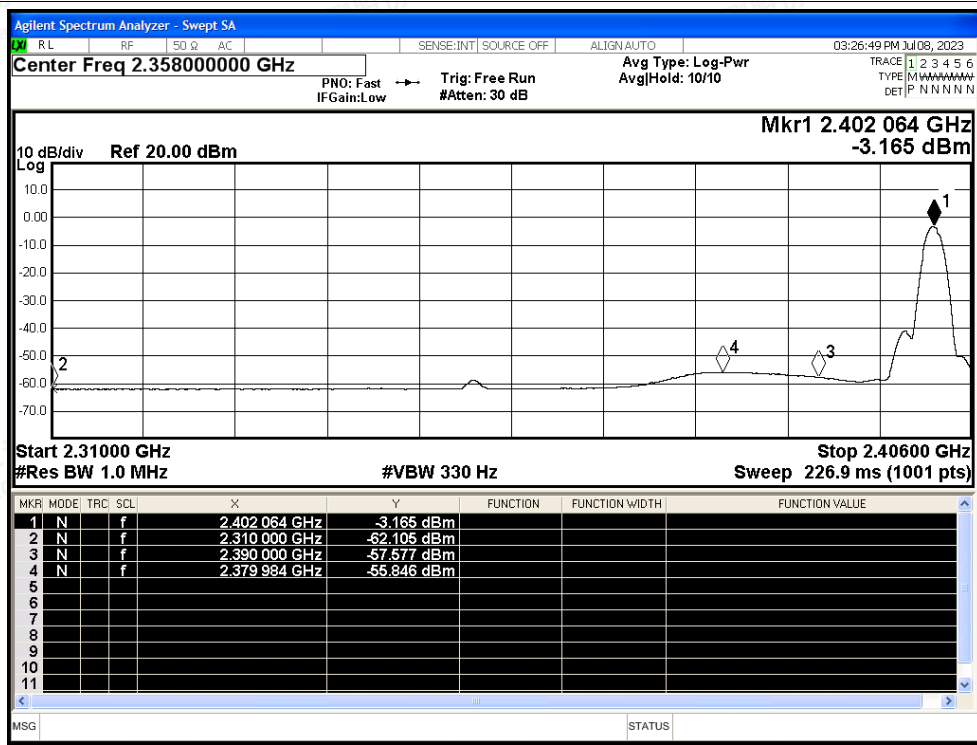




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

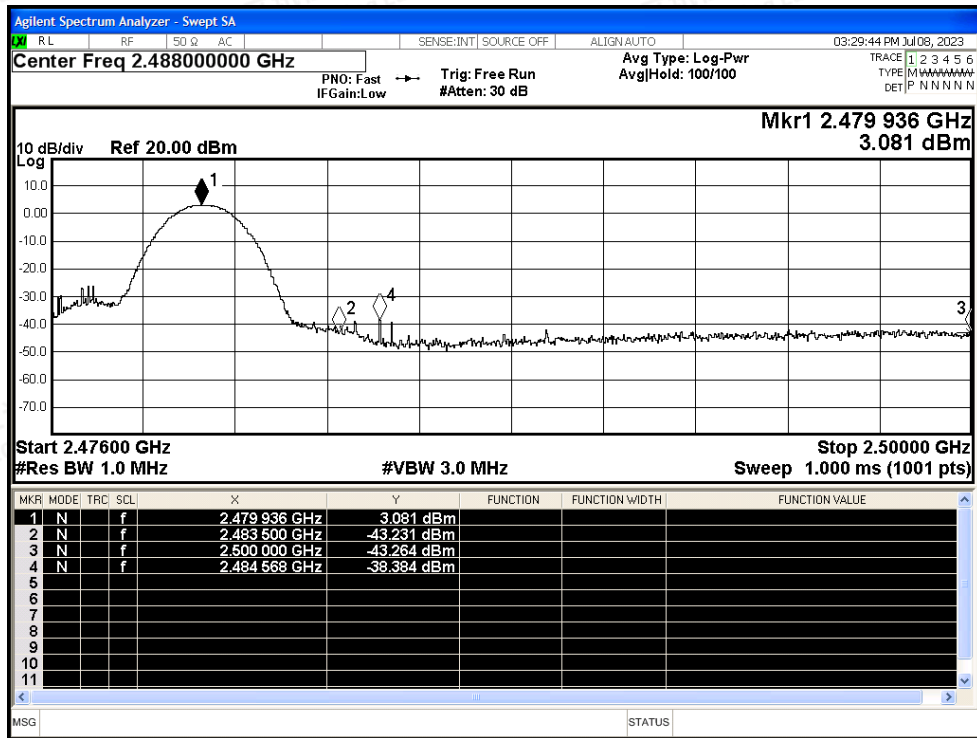


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

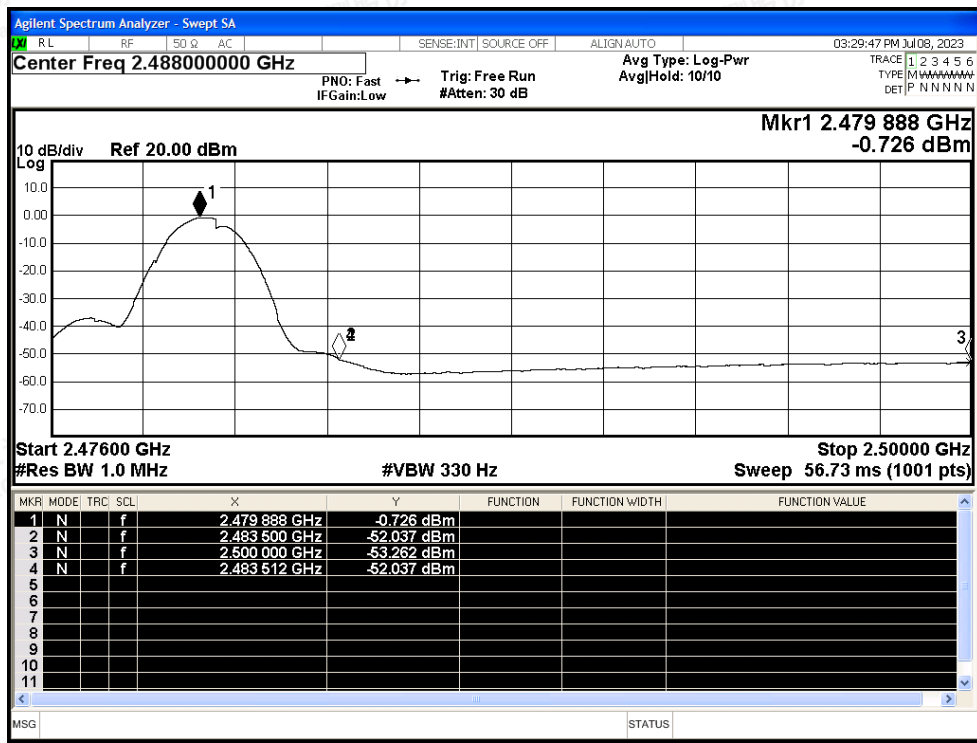




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

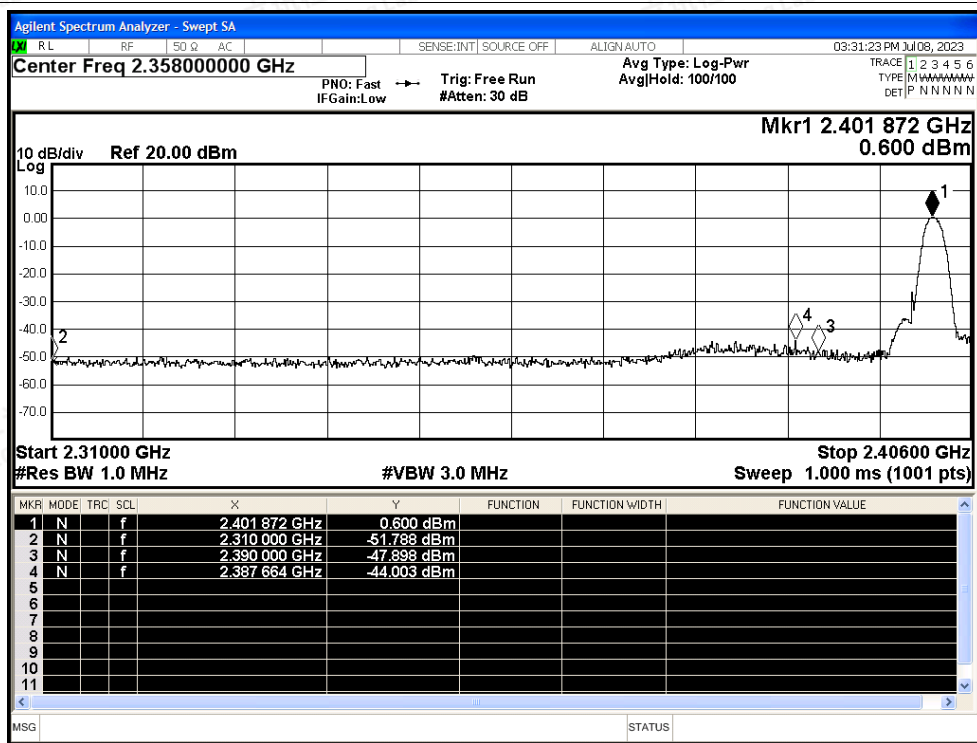


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

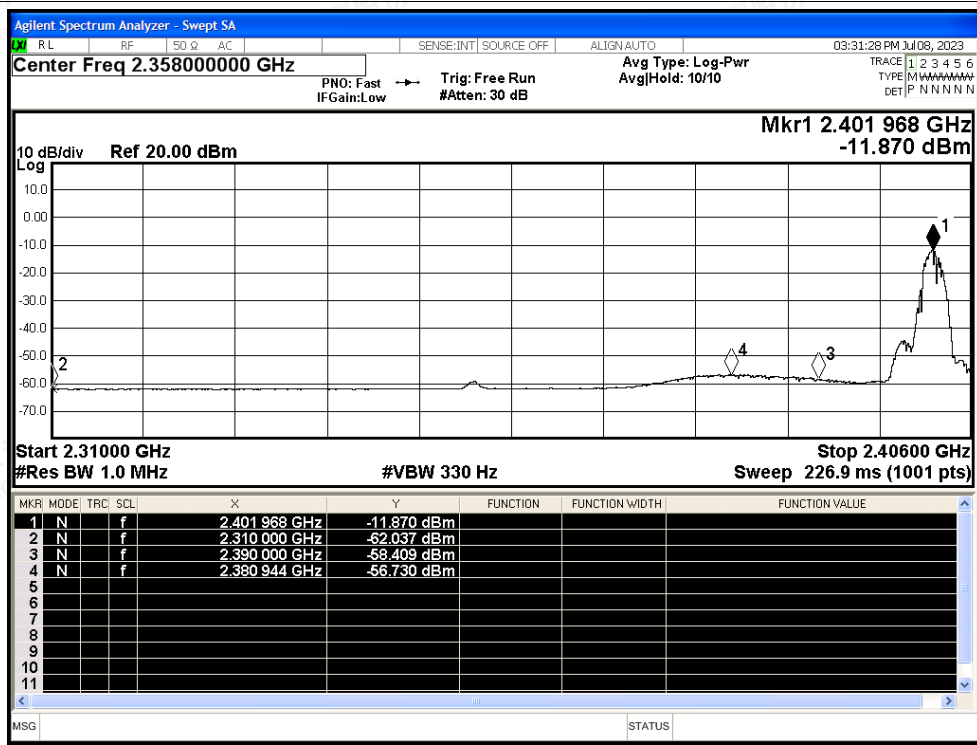




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

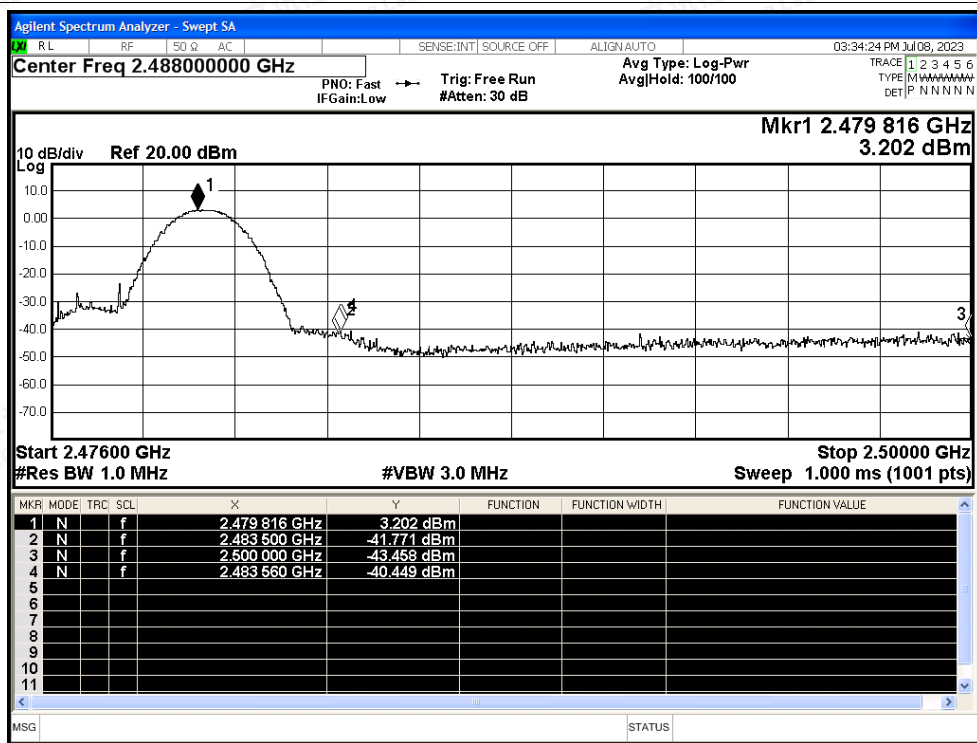


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

