



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Cassette Player

Test Model: BR636B

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Jack Cheng</i> Jack Cheng
Supervised by:	<i>Li Huan</i> Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.85	0	Pass
NVNT	1-DH5	2441	Ant1	0.852	0	Pass
NVNT	1-DH5	2480	Ant1	0.953	0	Pass
NVNT	2-DH5	2402	Ant1	1.213	0	Pass
NVNT	2-DH5	2441	Ant1	1.276	0	Pass
NVNT	2-DH5	2480	Ant1	1.21	0	Pass

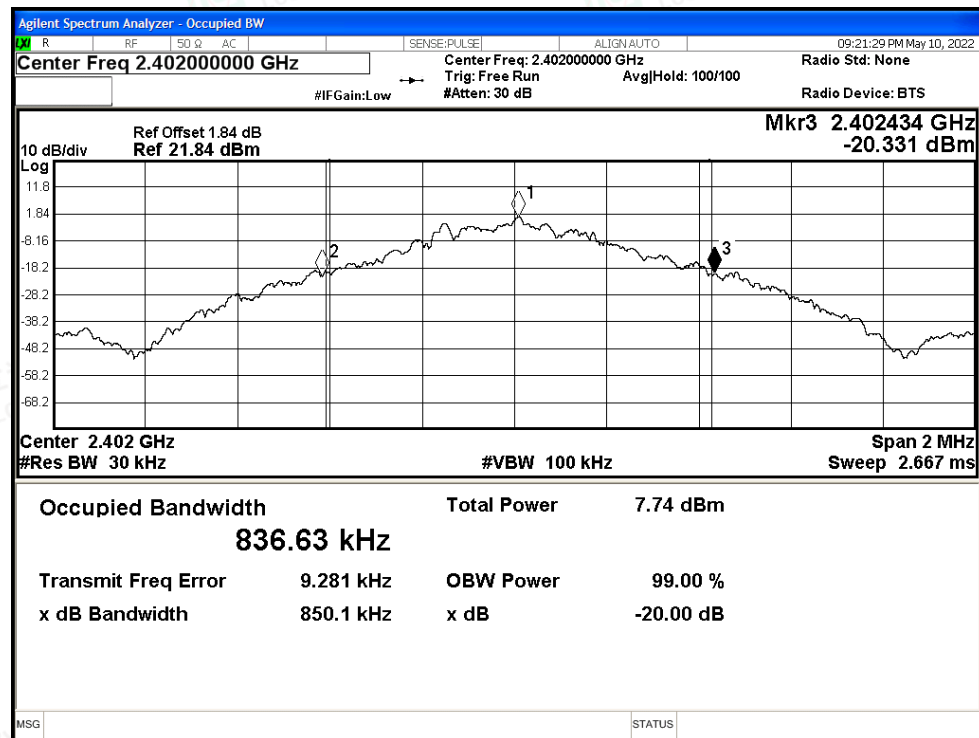


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

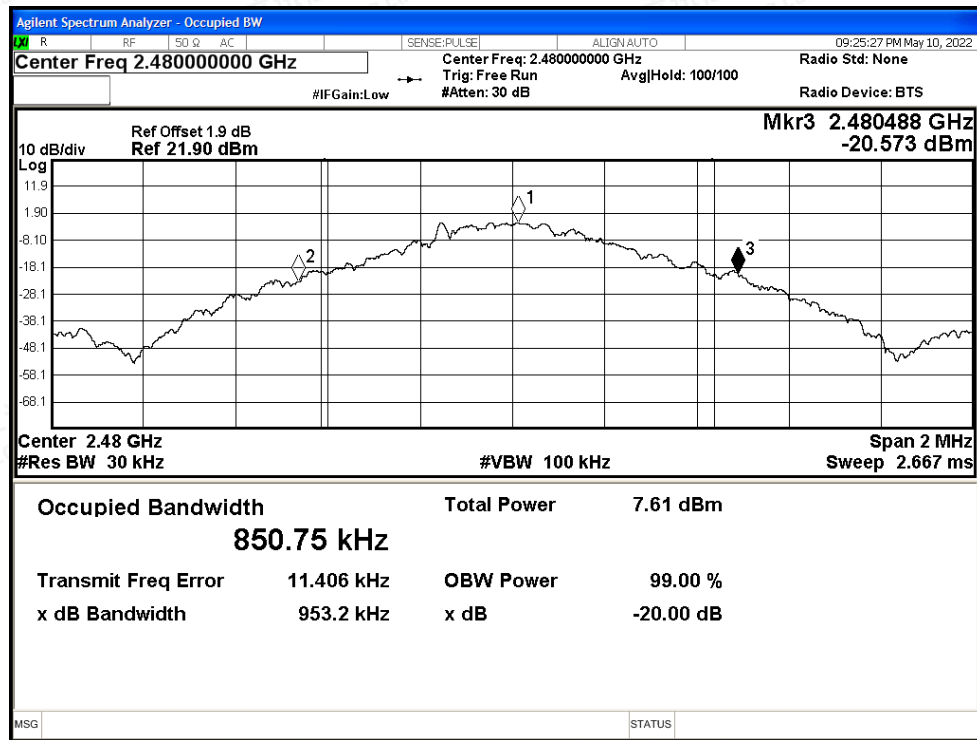


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

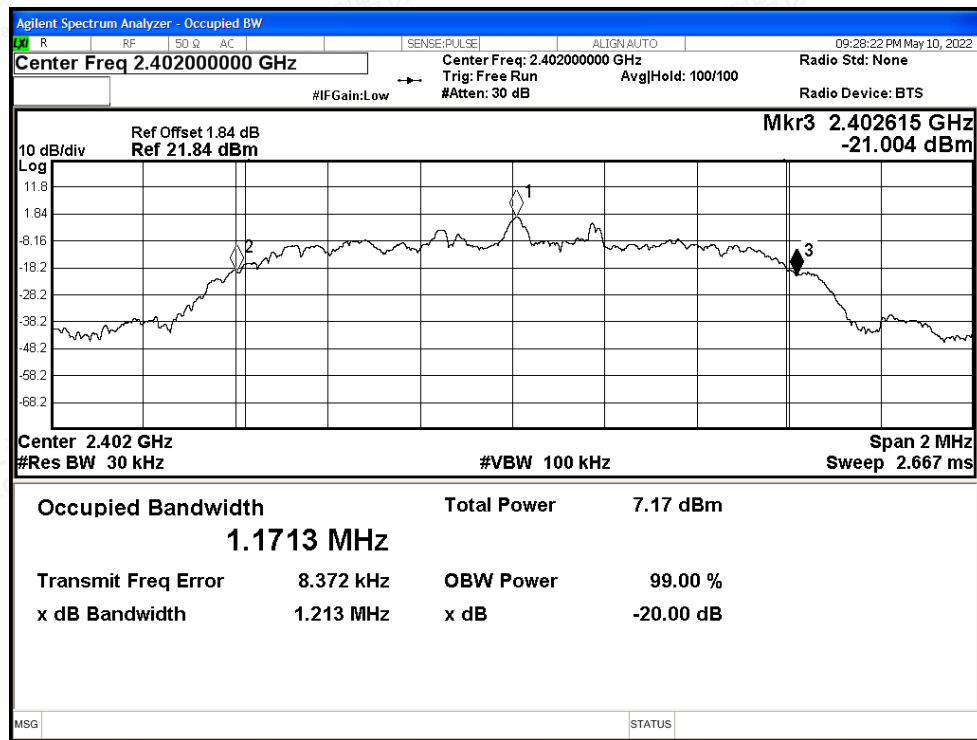




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

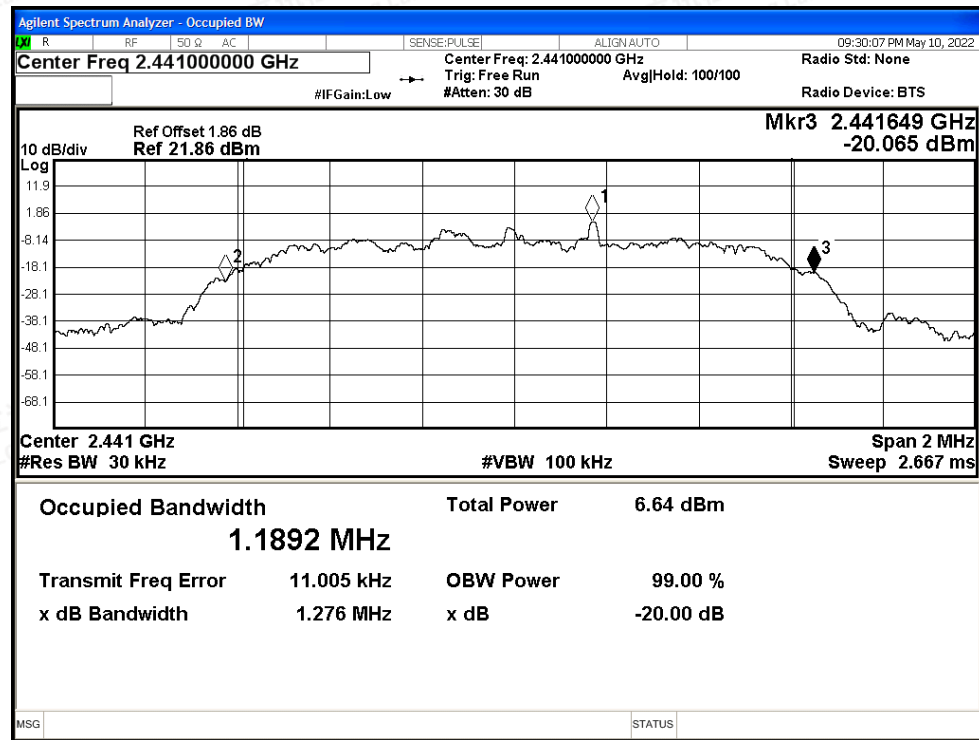


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

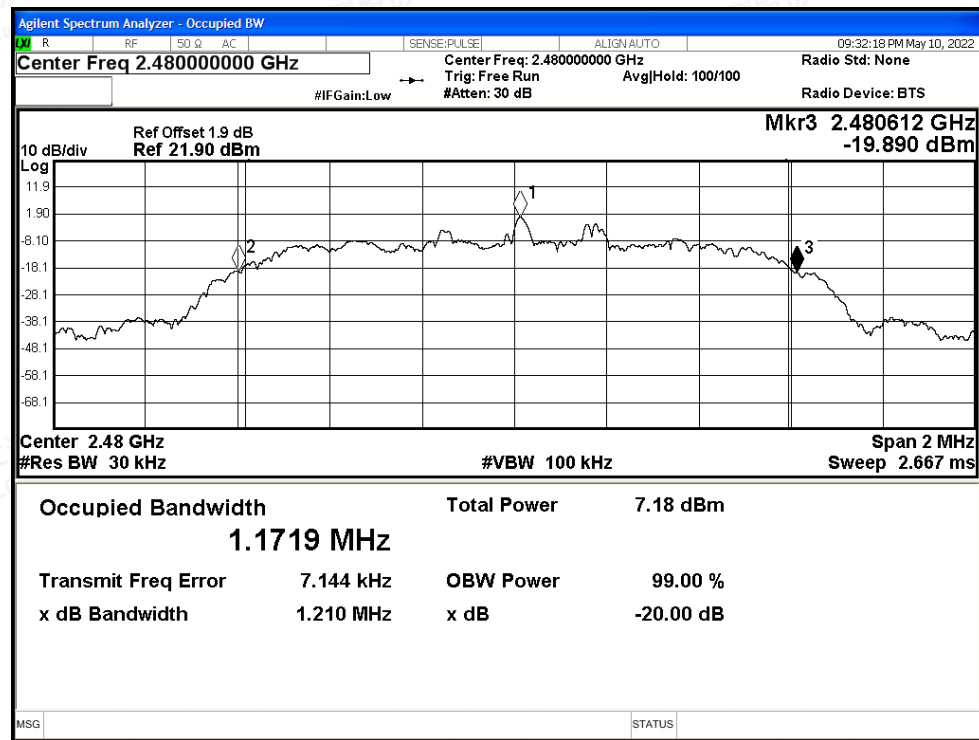




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	0	0.94	21	Pass
NVNT	1-DH5	2441	Ant1	1.06	0	1.06	21	Pass
NVNT	1-DH5	2480	Ant1	0.93	0	0.93	21	Pass
NVNT	2-DH5	2402	Ant1	2.2	0	2.2	21	Pass
NVNT	2-DH5	2441	Ant1	2.4	0	2.4	21	Pass
NVNT	2-DH5	2480	Ant1	2.23	0	2.23	21	Pass

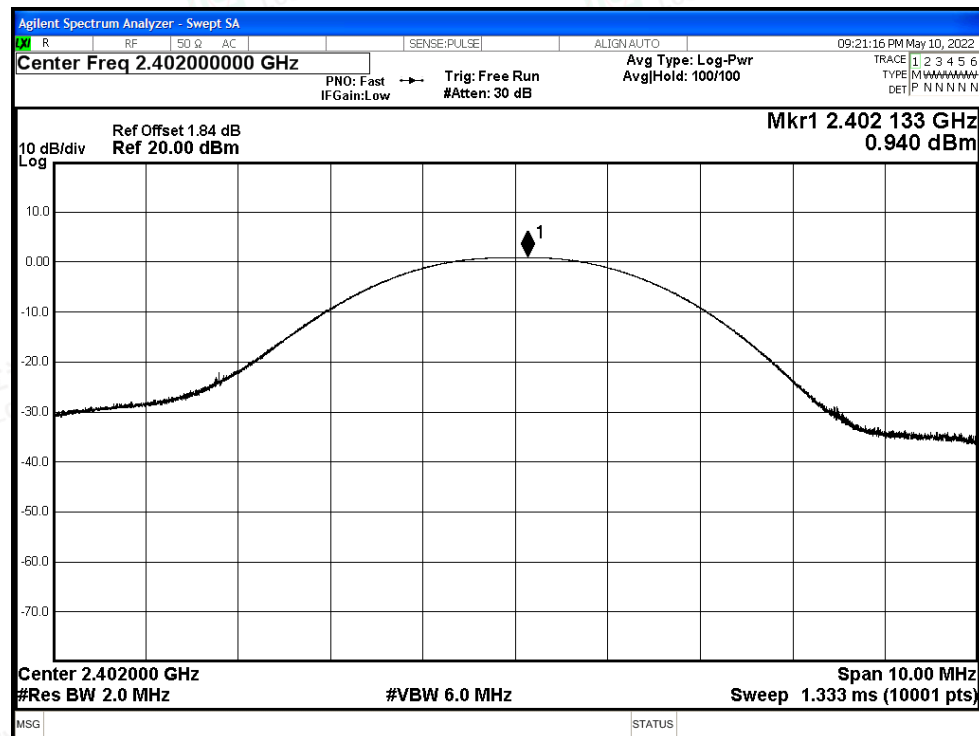


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518000, China
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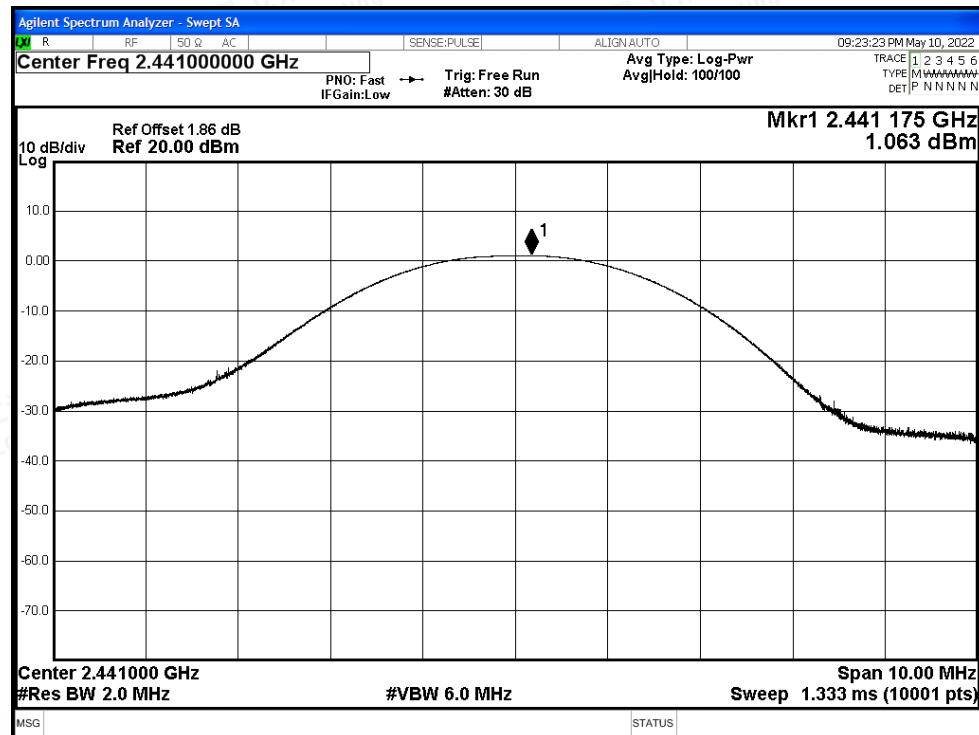


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

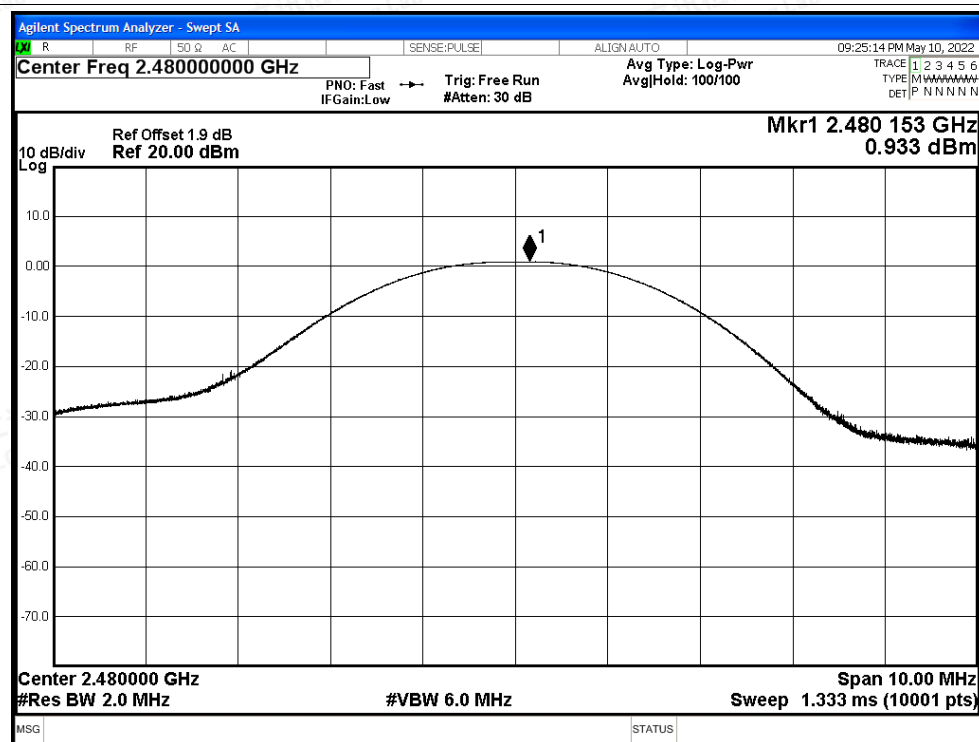


Power NVNT 1-DH5 2441MHz Ant1

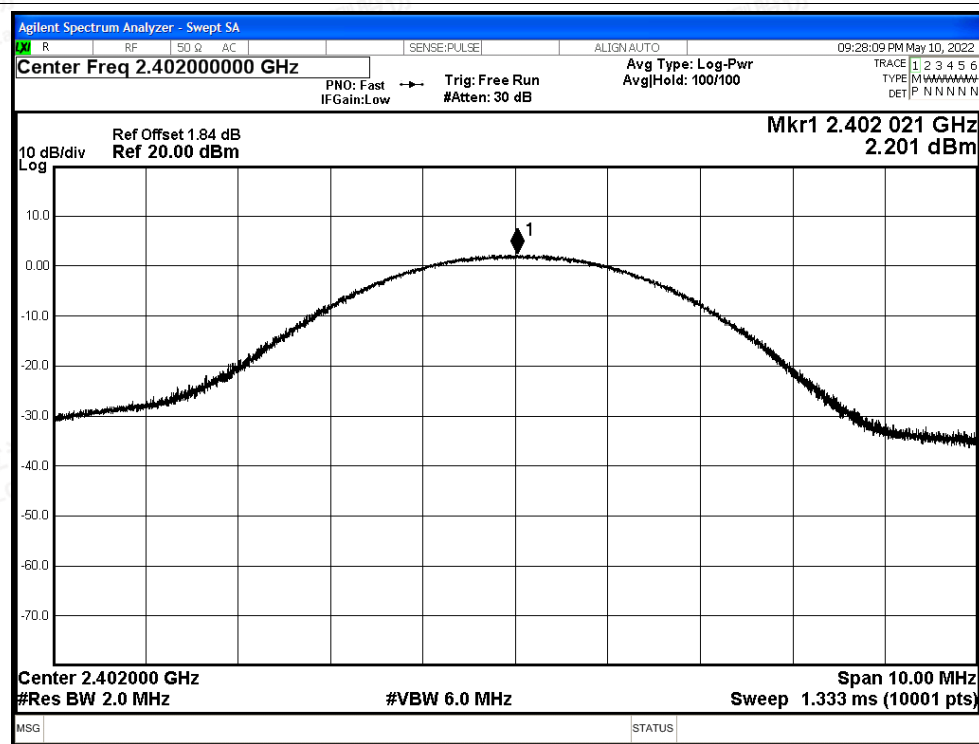




Power NVNT 1-DH5 2480MHz Ant1

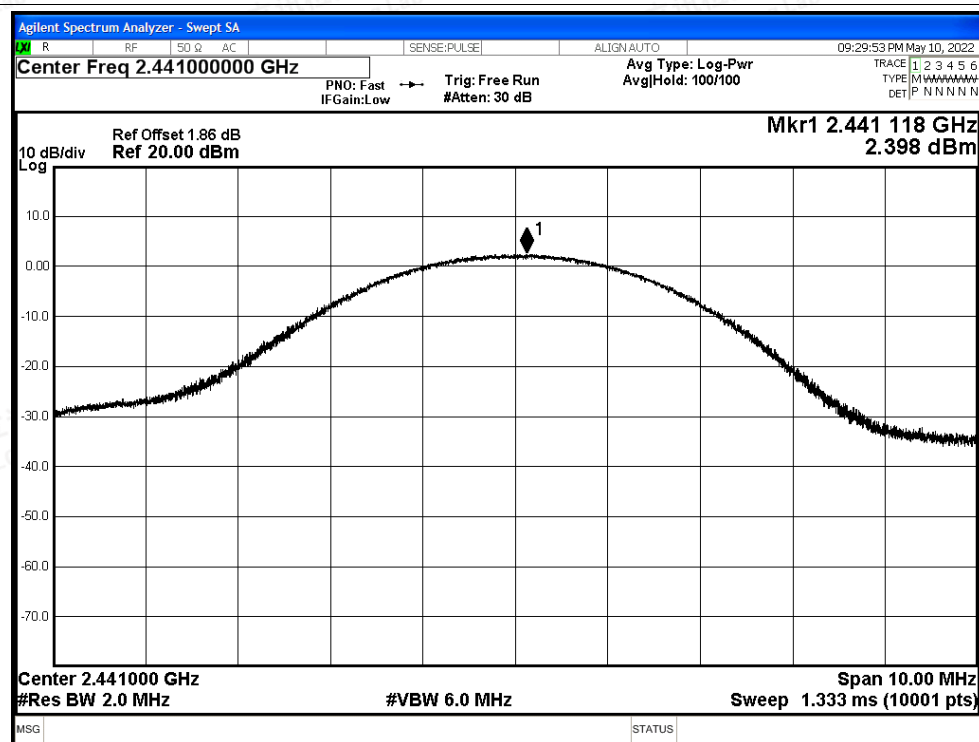


Power NVNT 2-DH5 2402MHz Ant1

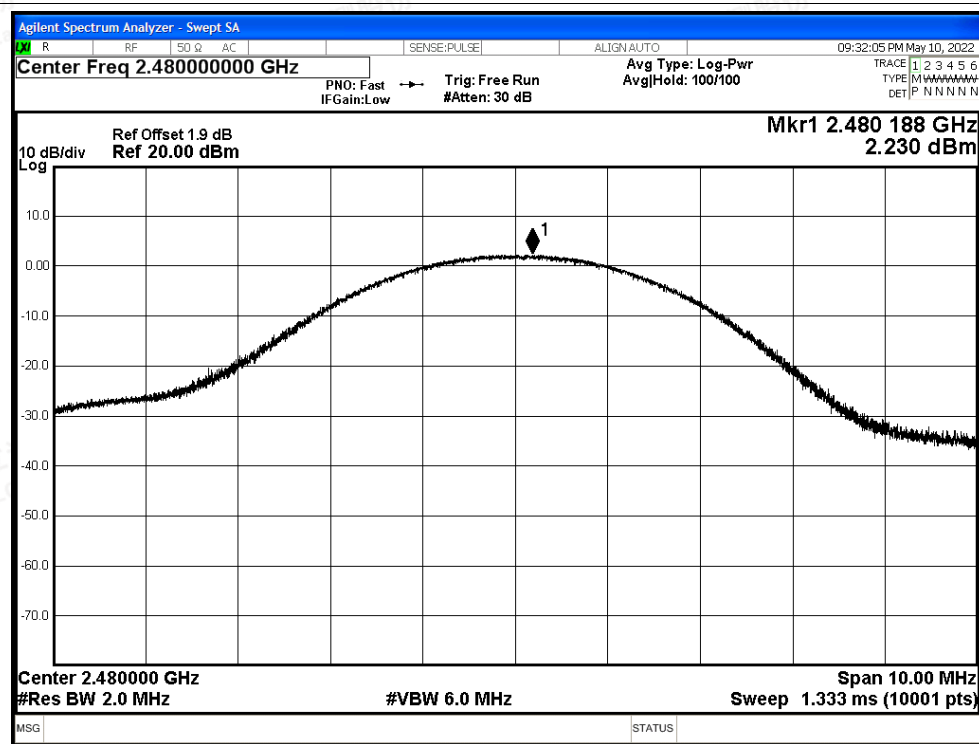




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





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	2403.01	1.006	0.567	Pass
NVNT	2-DH5	Ant1	2402.01	2403.012	1.002	0.809	Pass

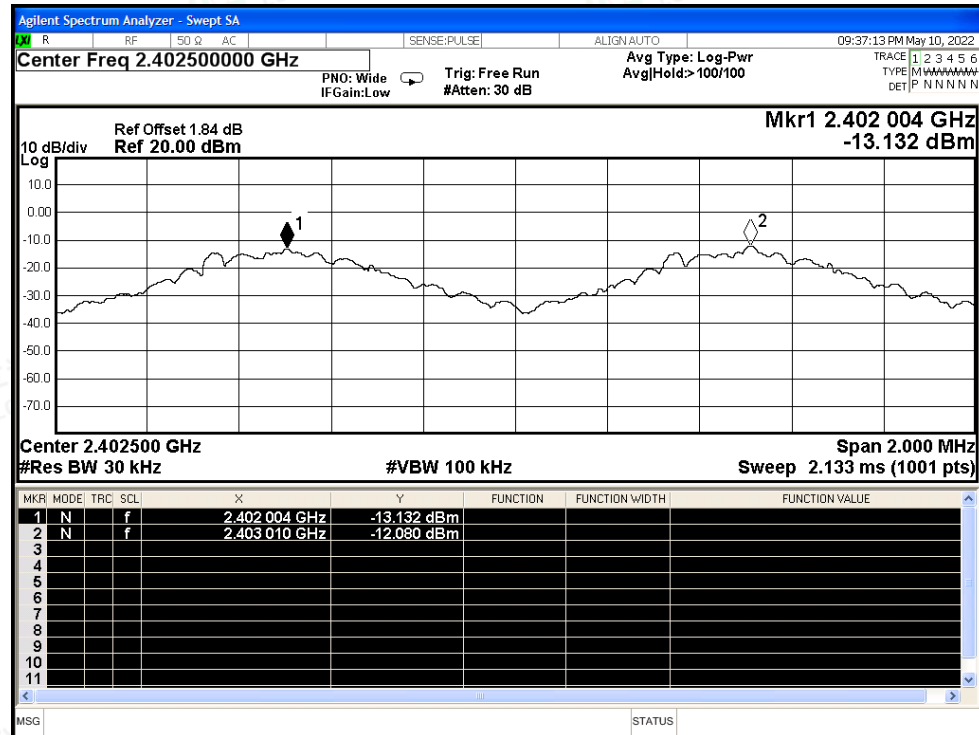


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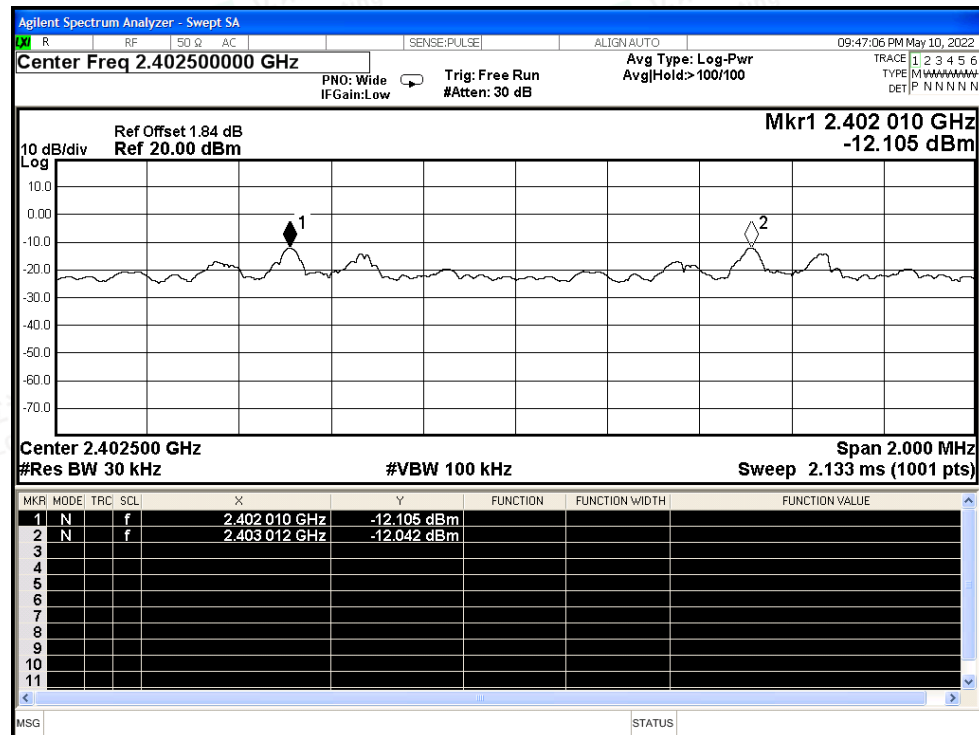


Test Graphs

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	2.912	311.584	107	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.912	331.968	114	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.913	340.821	117	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.912	346.528	119	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.917	329.621	113	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.918	338.488	116	31600	400	Pass

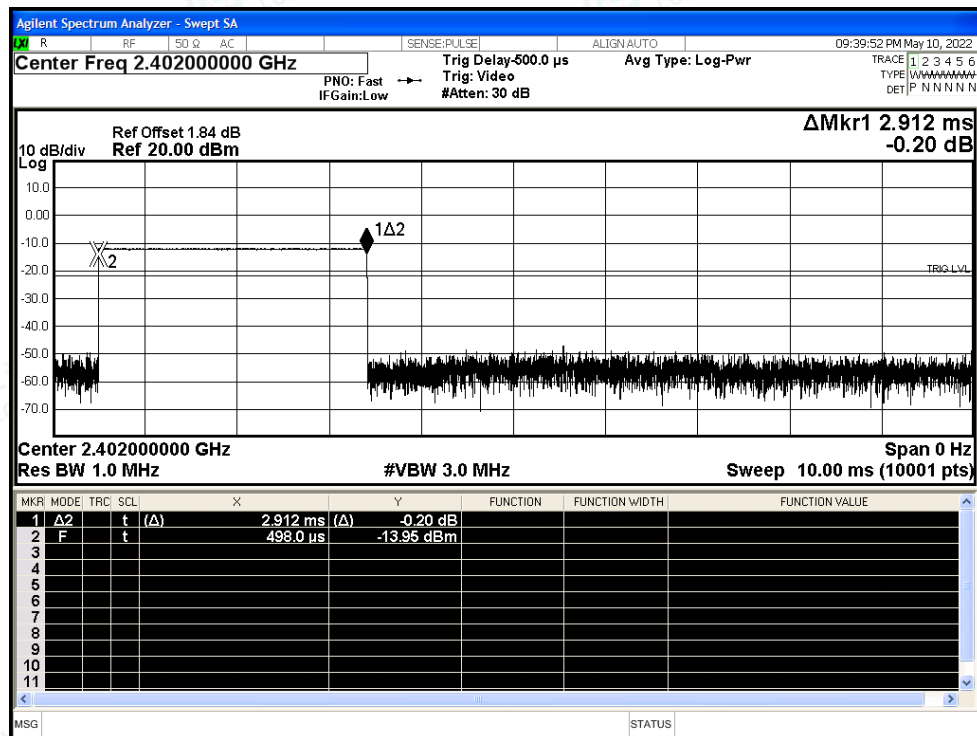


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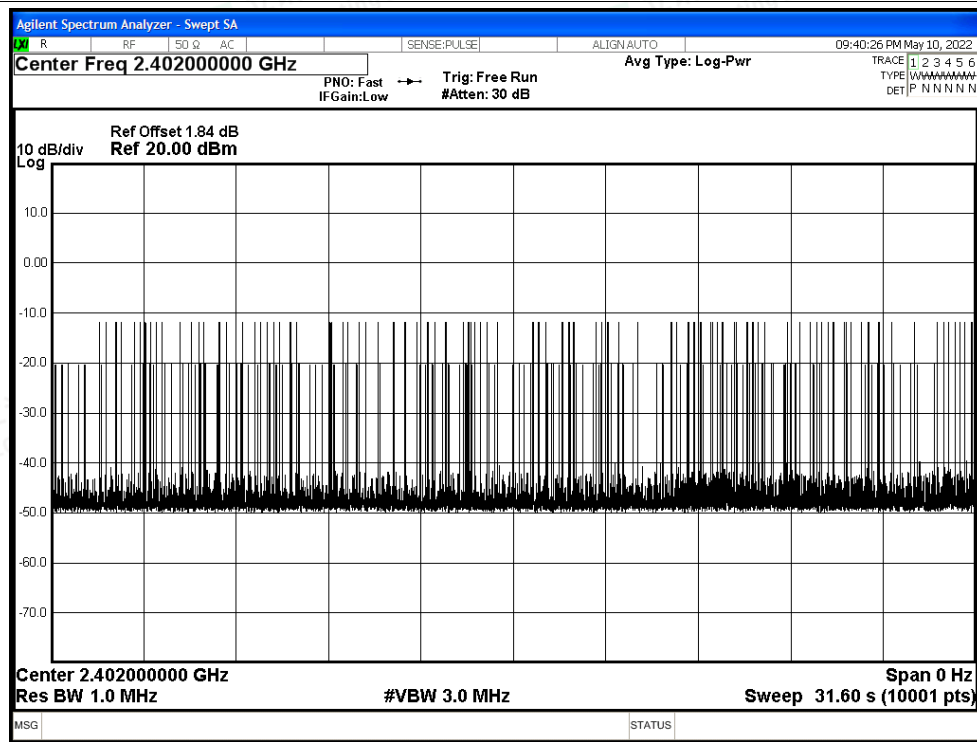


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

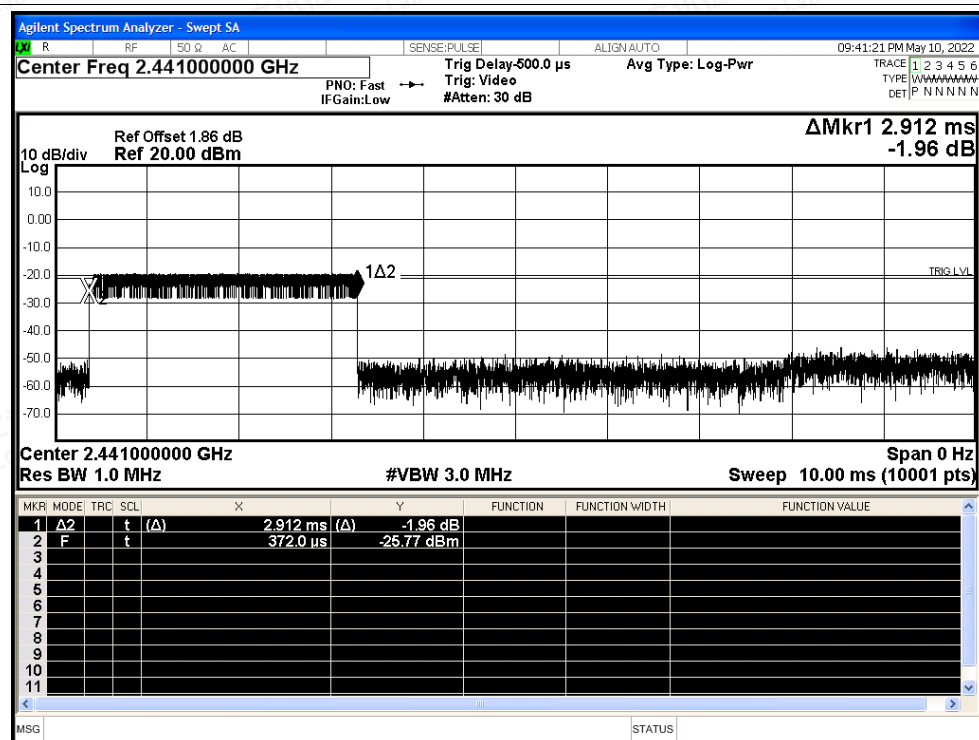


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

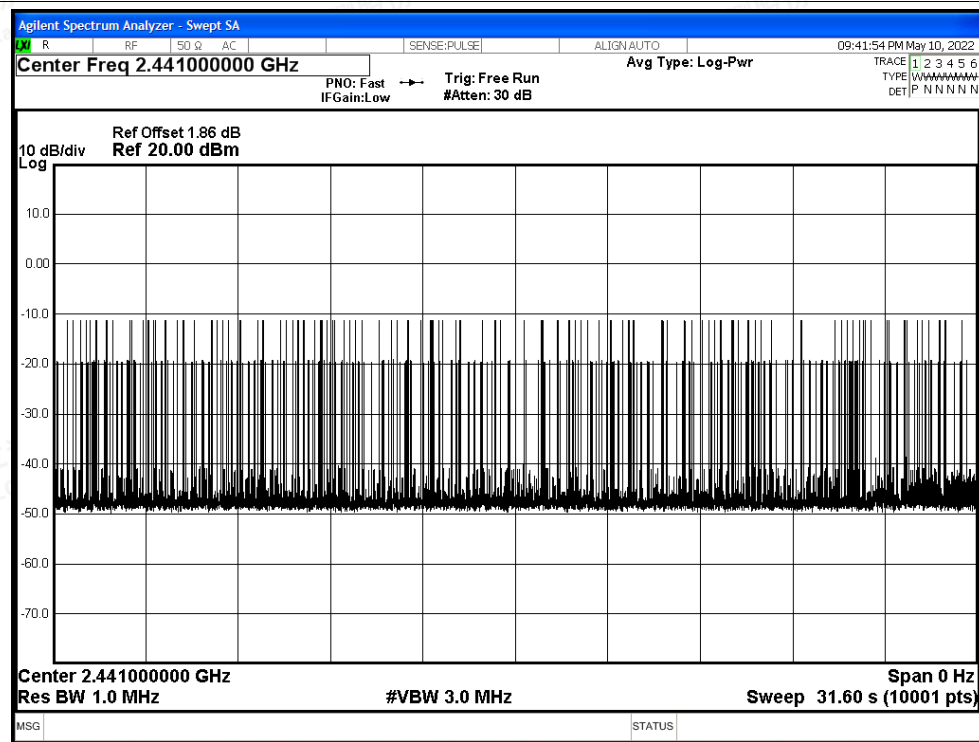




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

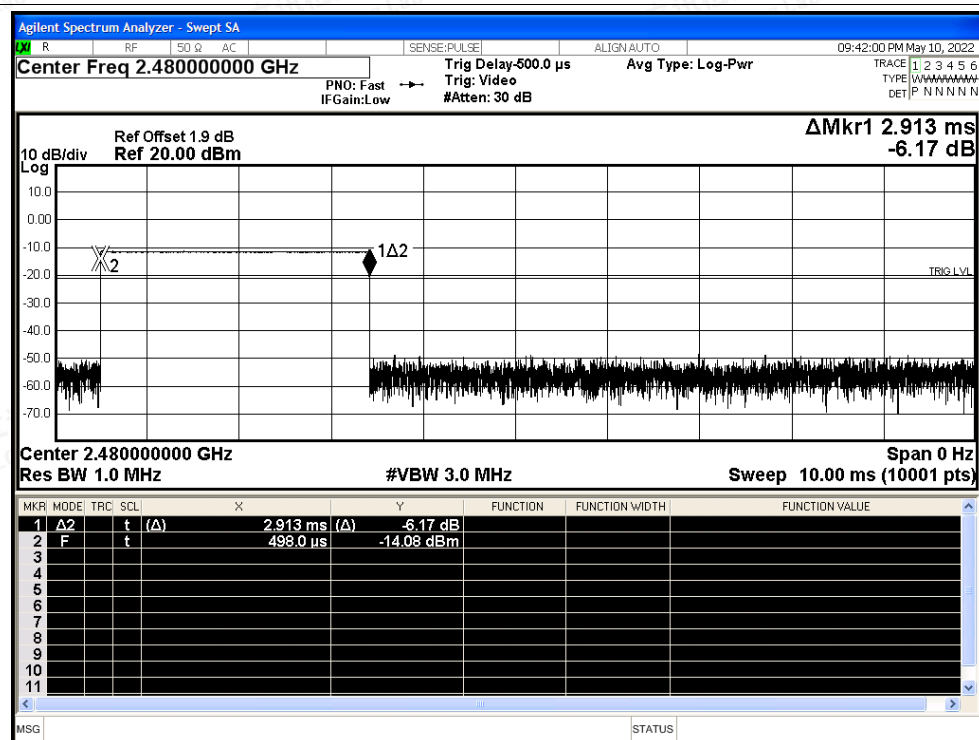


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

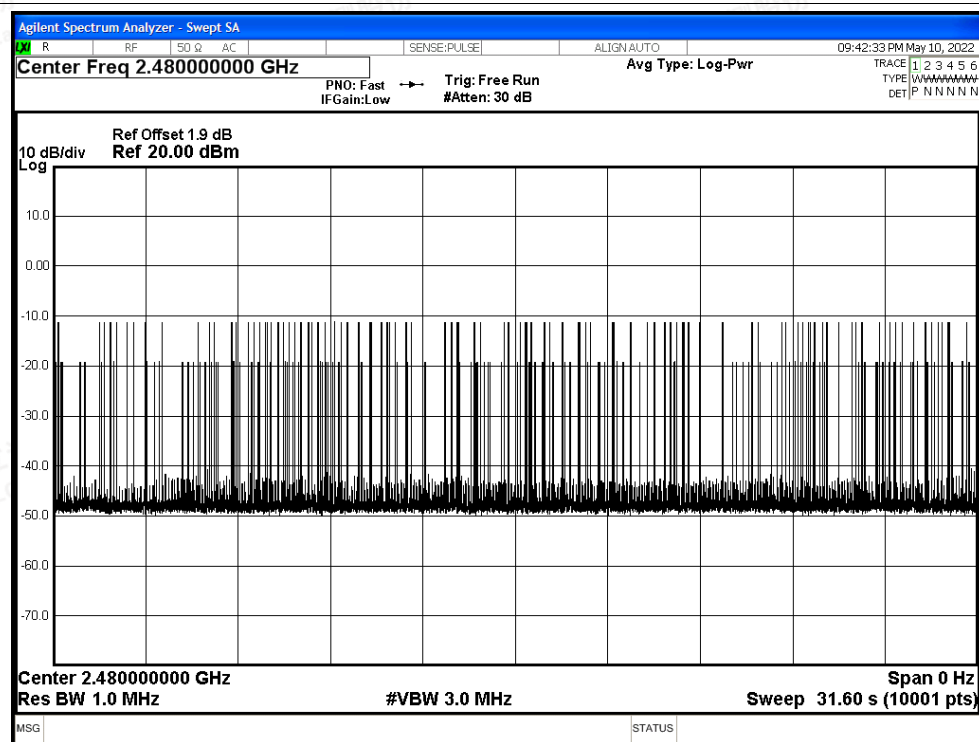




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

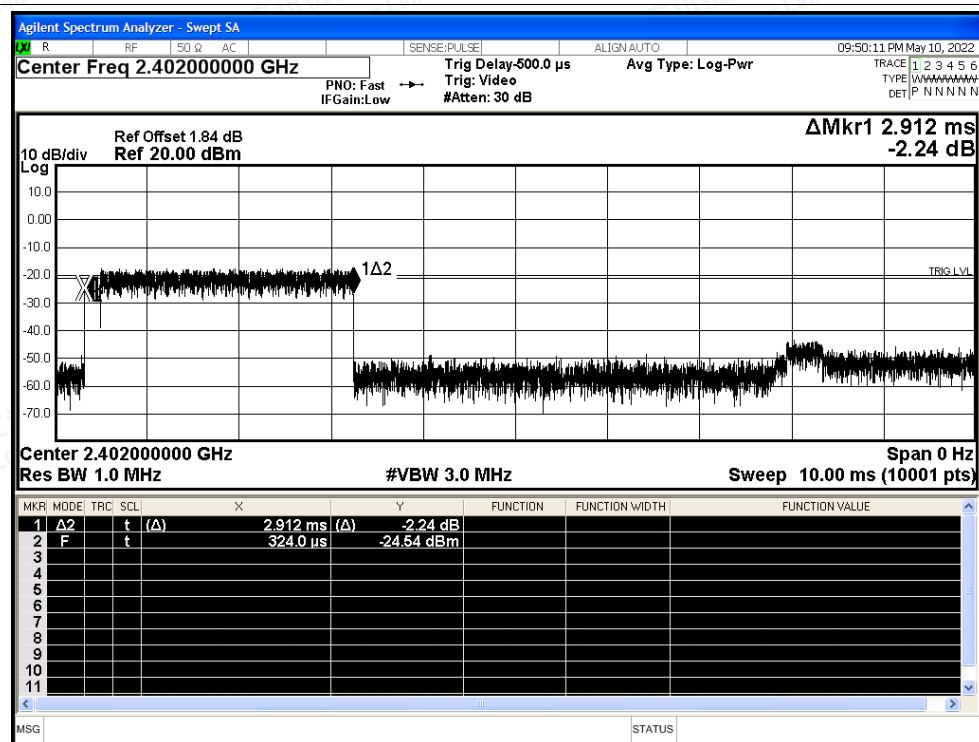


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

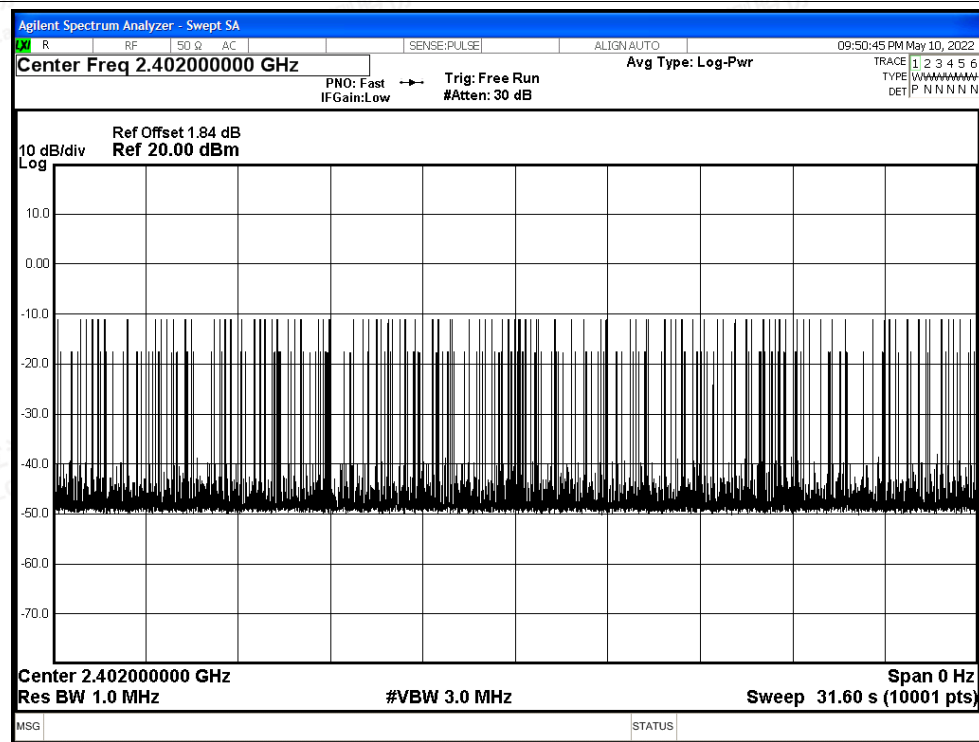




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

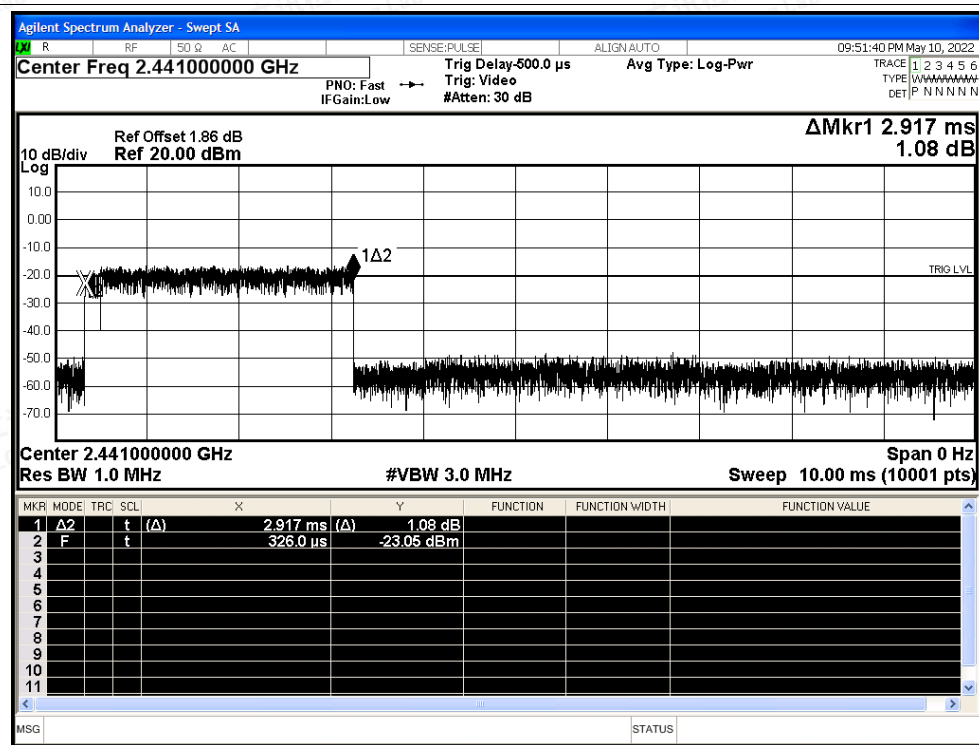


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

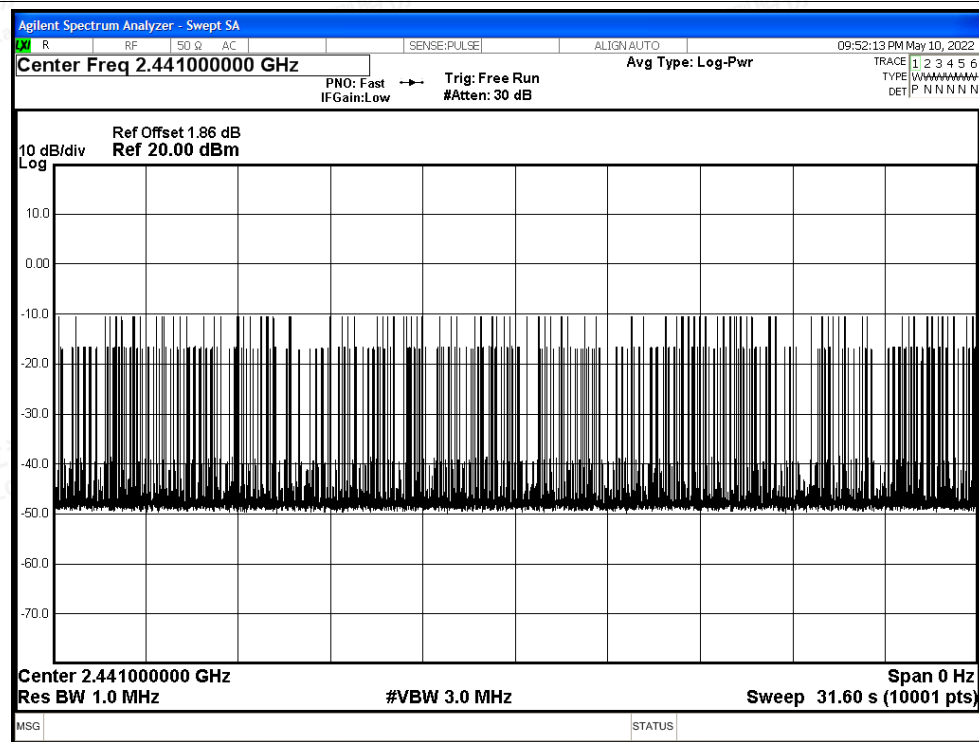




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

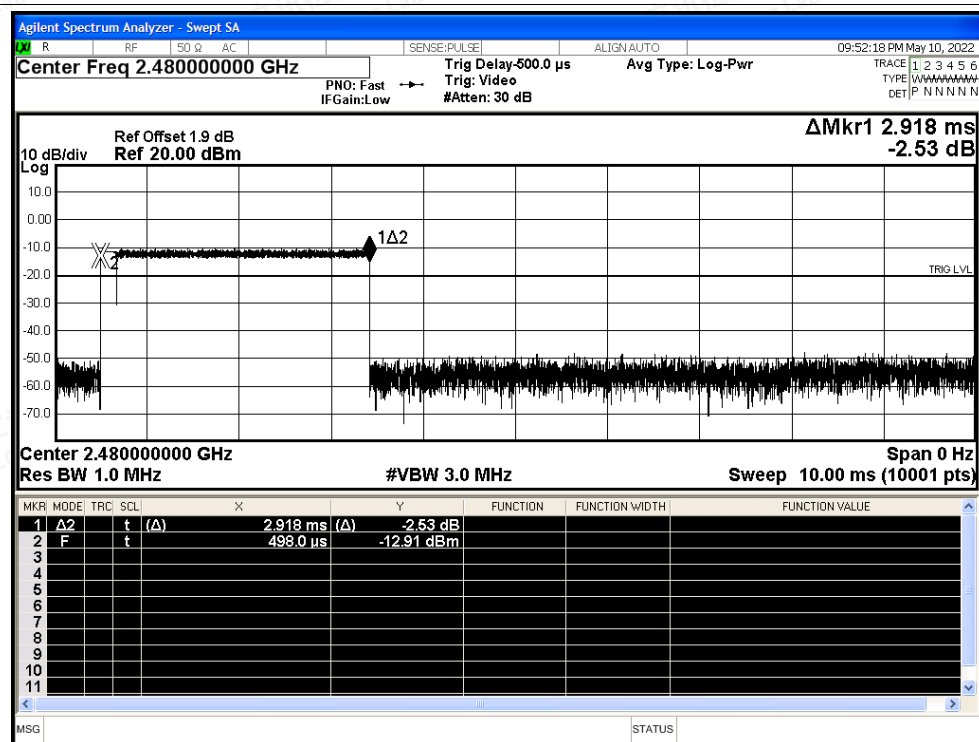


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

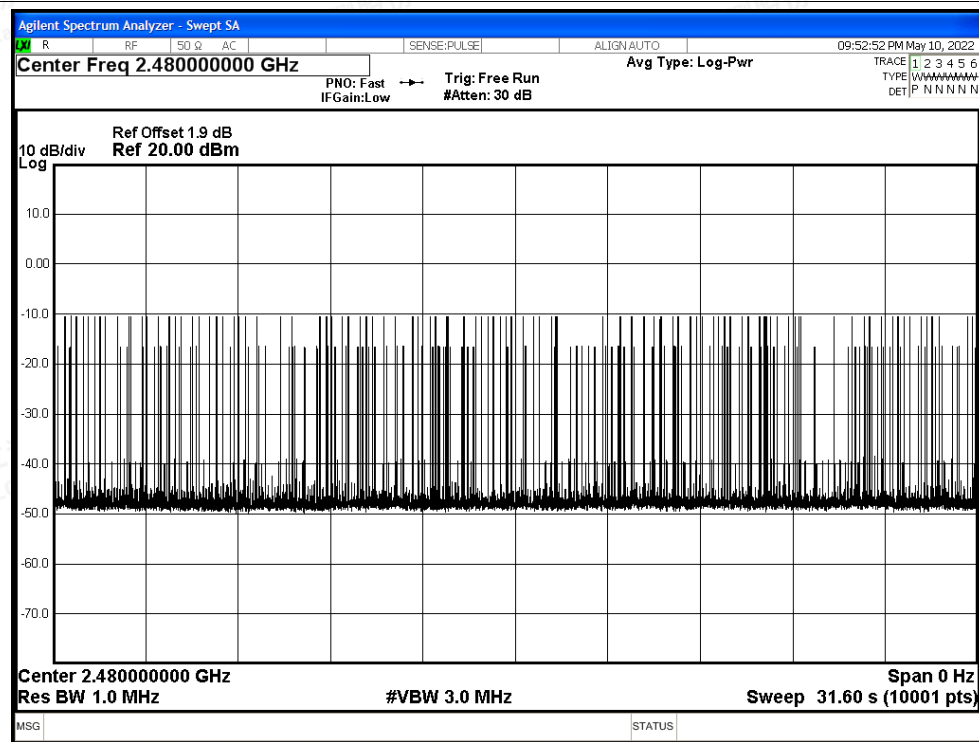




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz 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

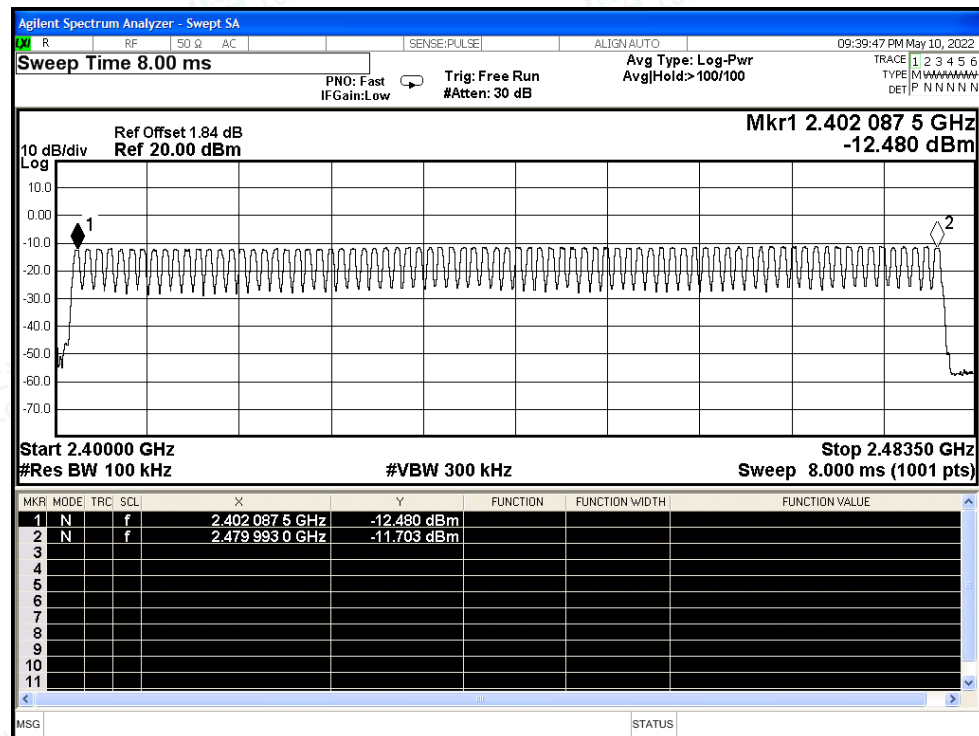


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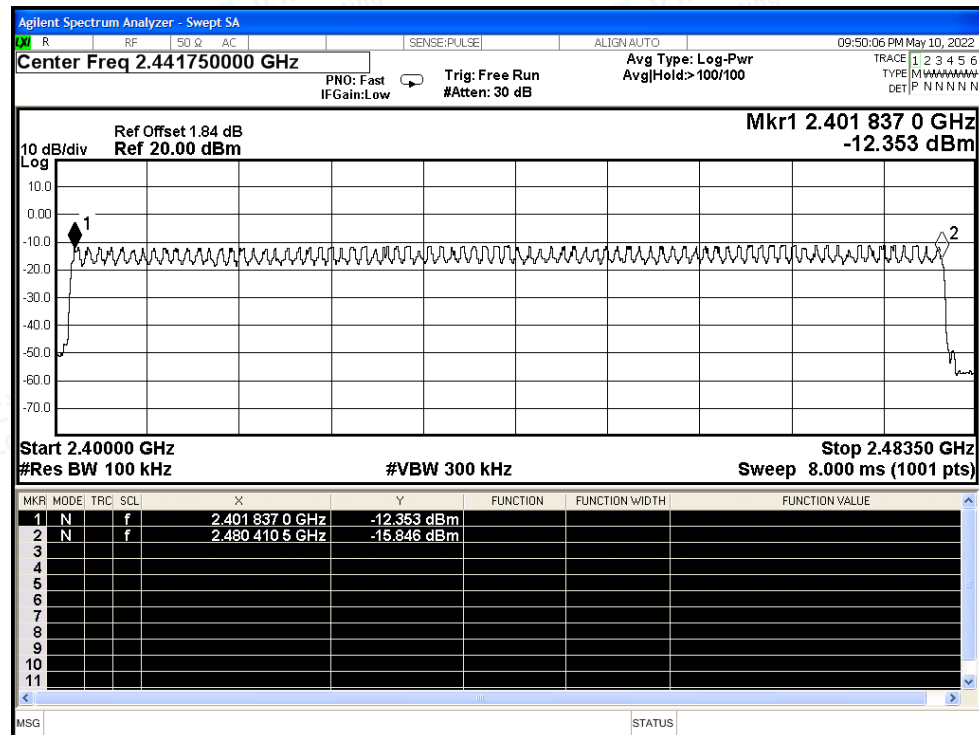


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

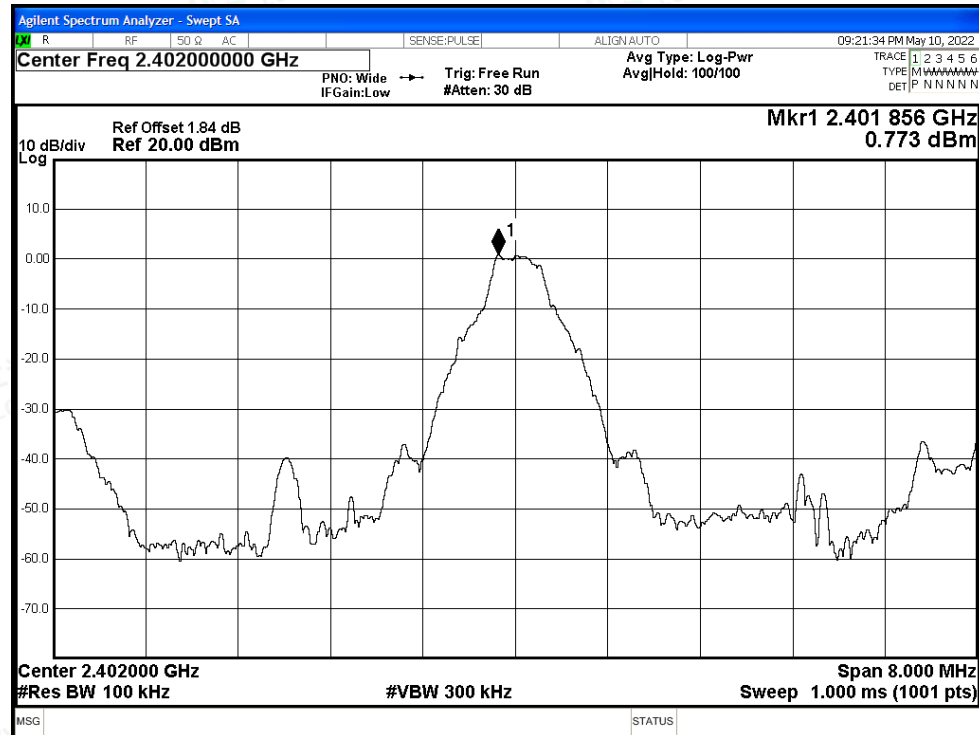
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-30.68	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-37.77	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-30.83	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-37.24	-20	Pass



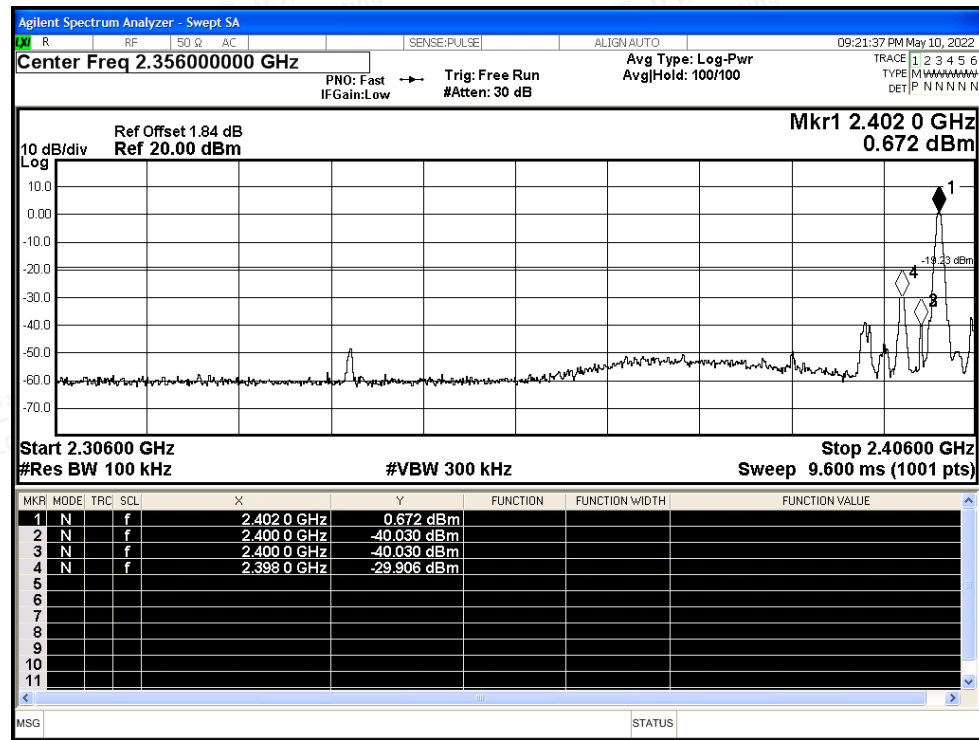


Test Graphs

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

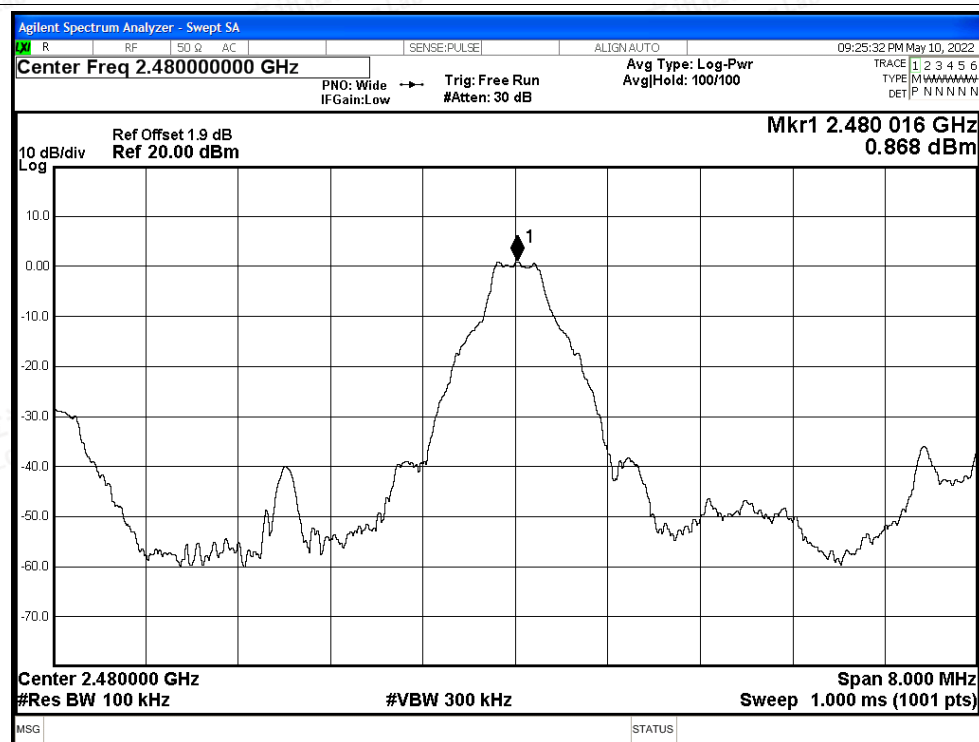


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

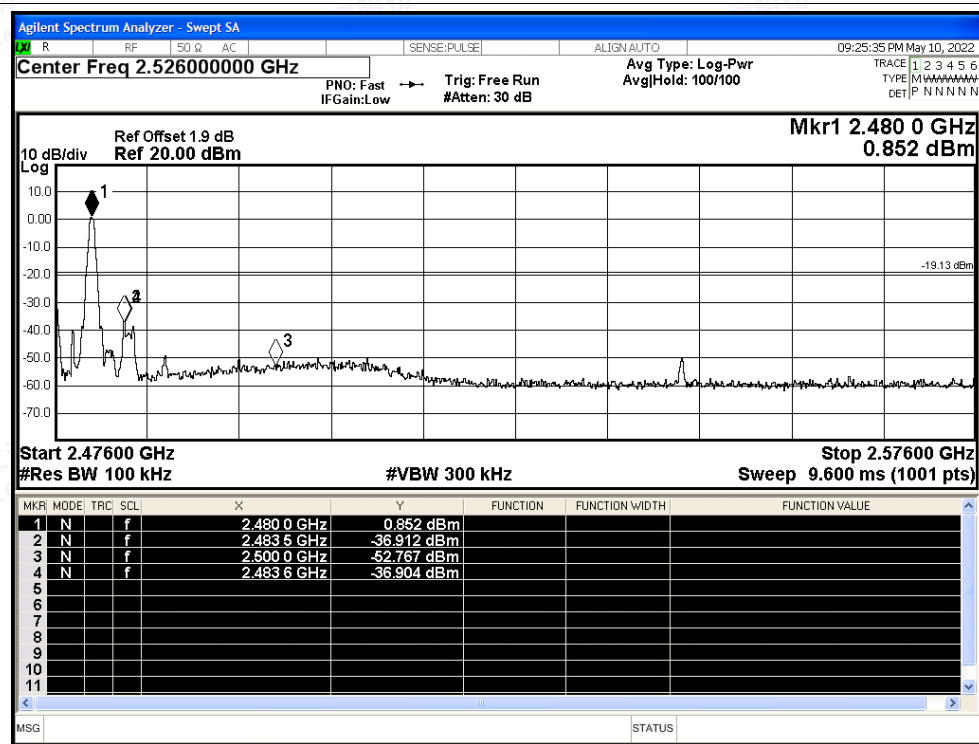




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

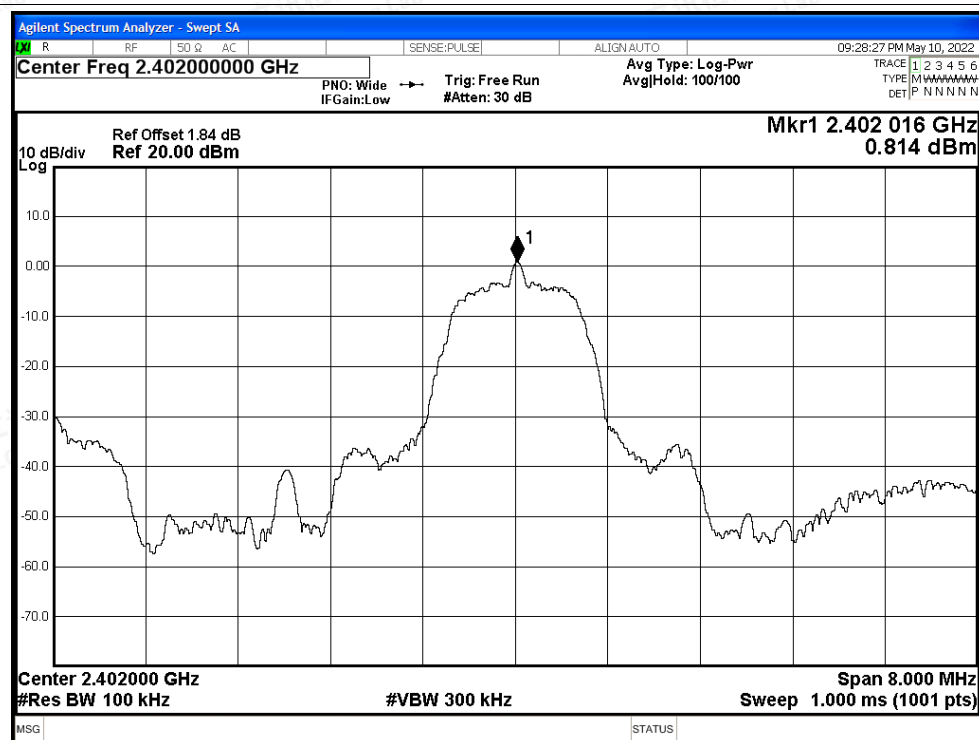


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

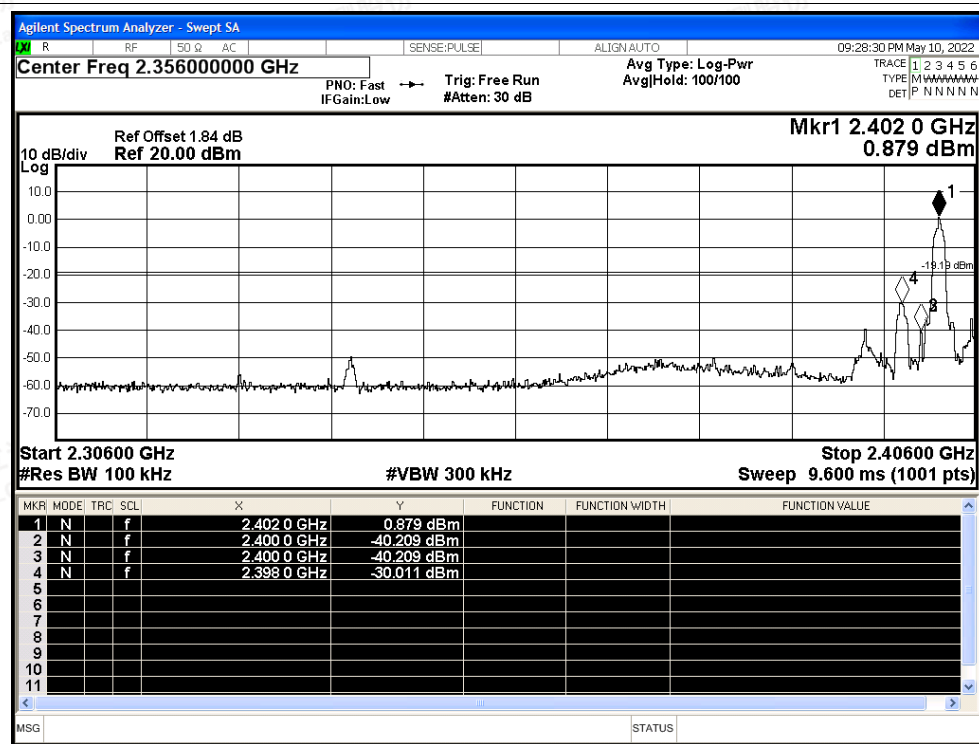




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

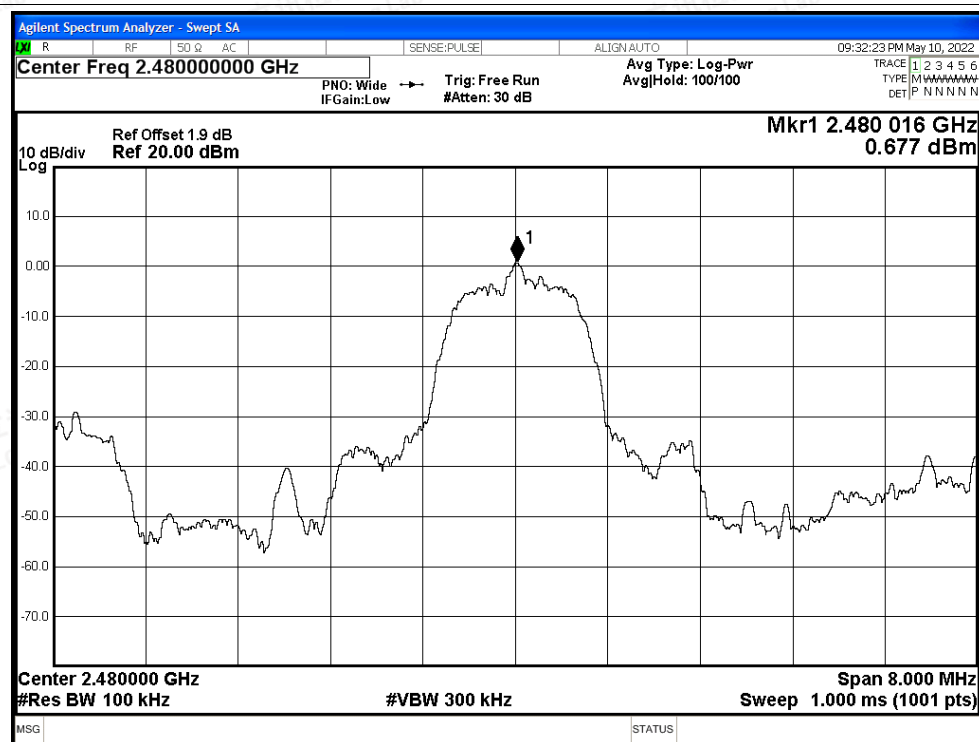


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

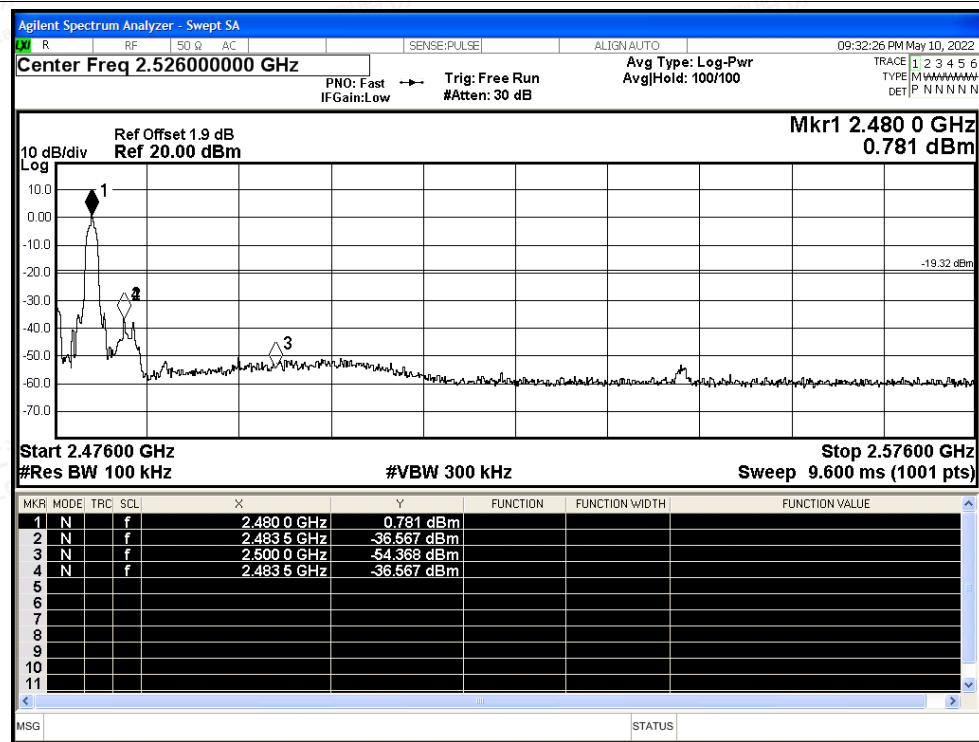




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

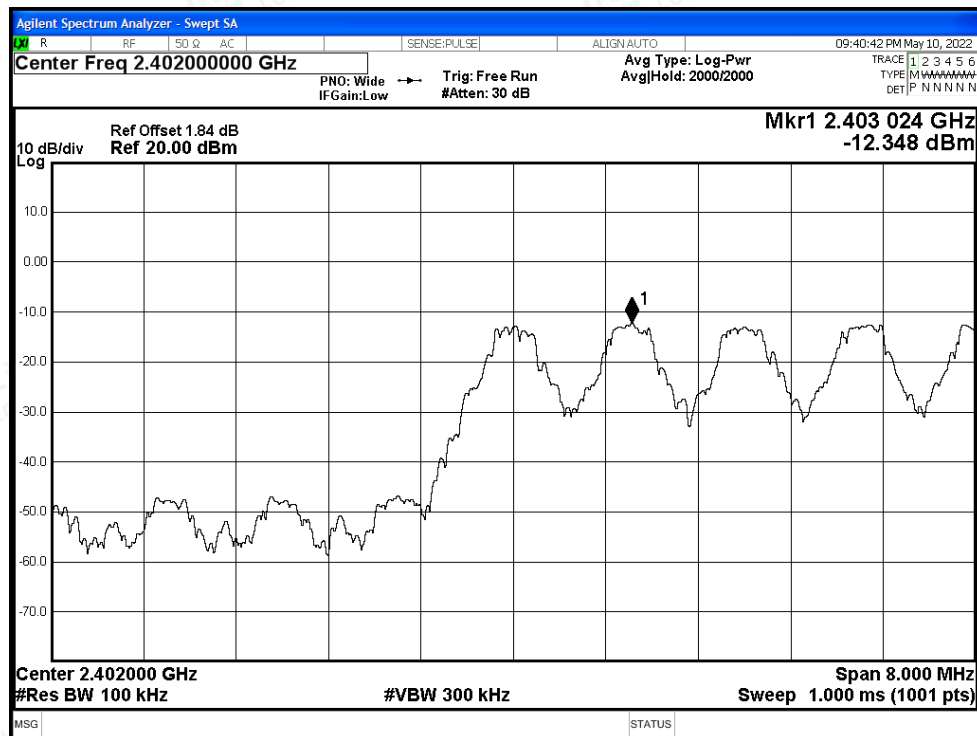
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-42.58	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-43.66	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-42.46	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-44.24	-20	Pass



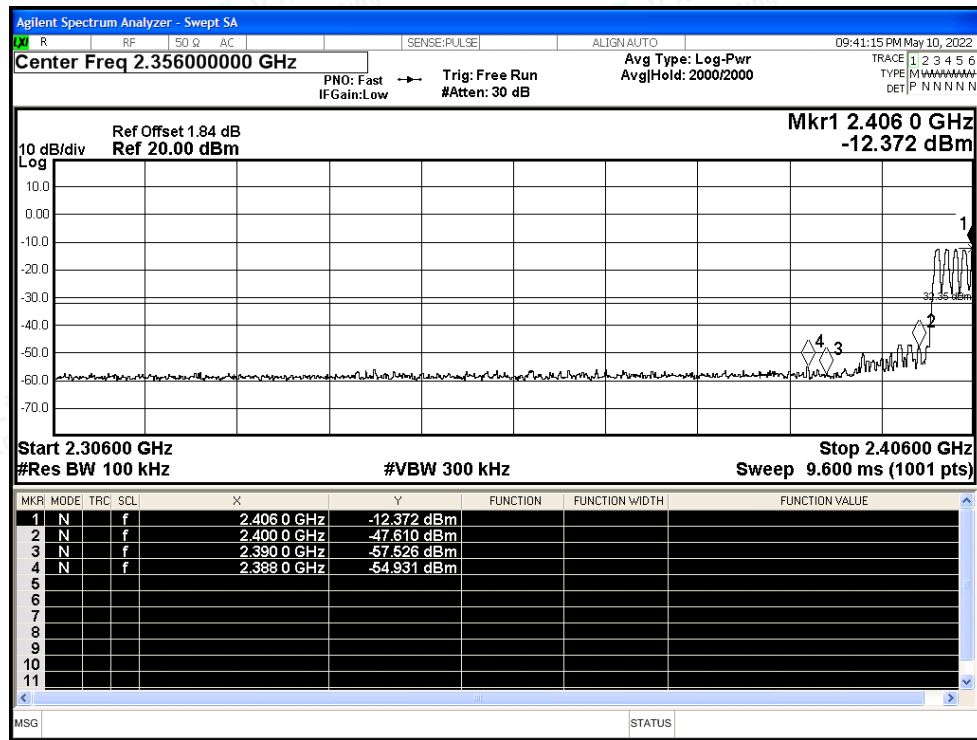


Test Graphs

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



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



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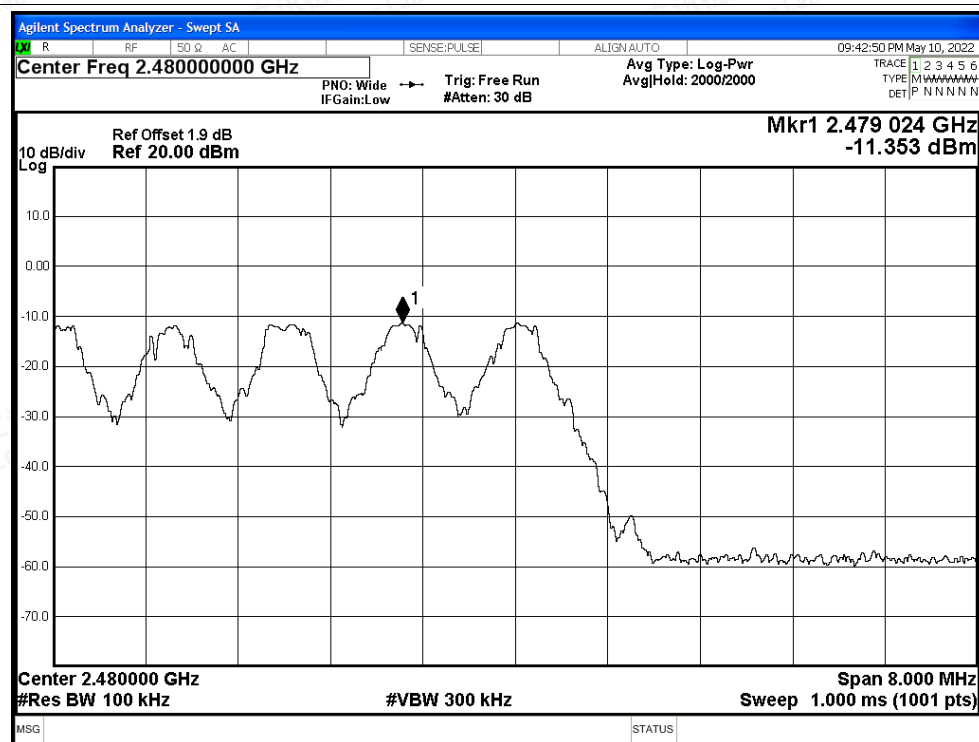
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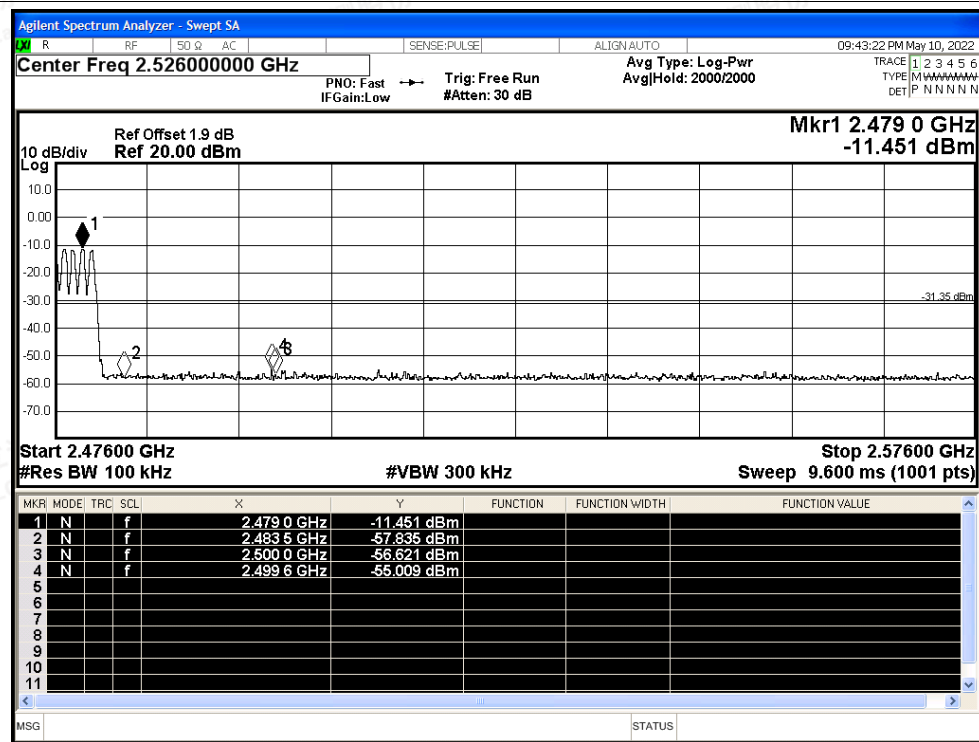
Scan code to check authenticity



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

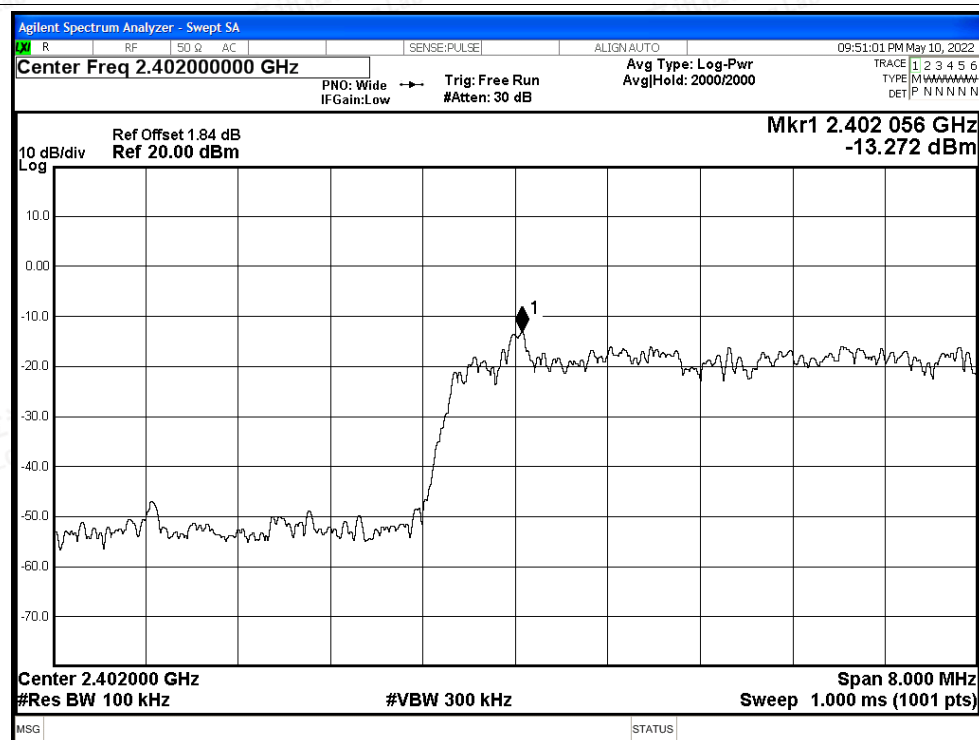


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

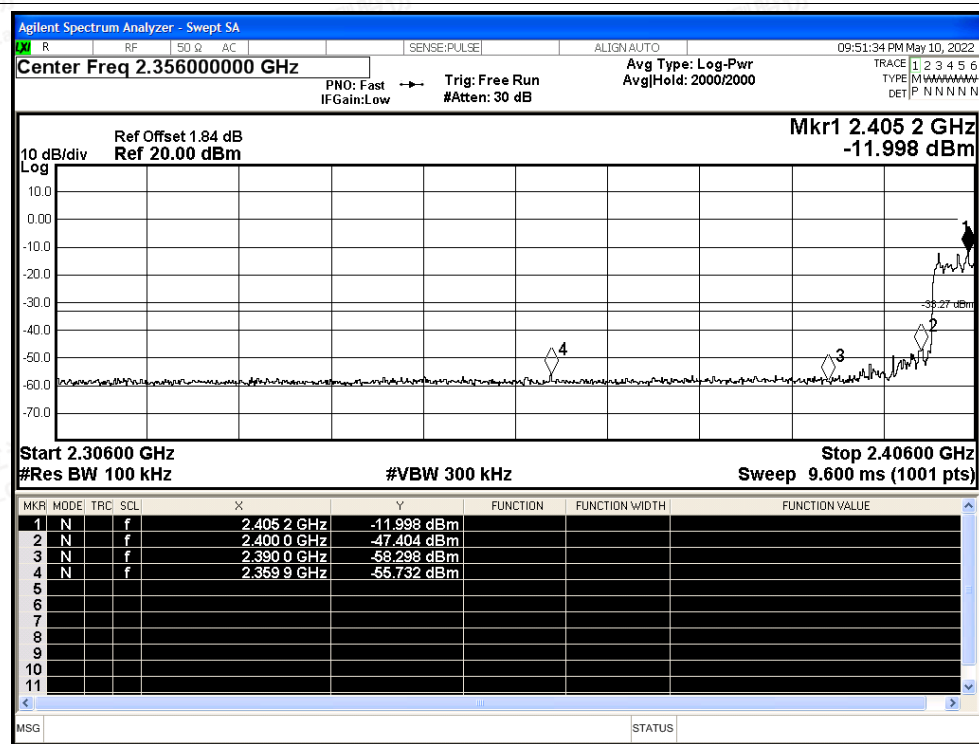




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

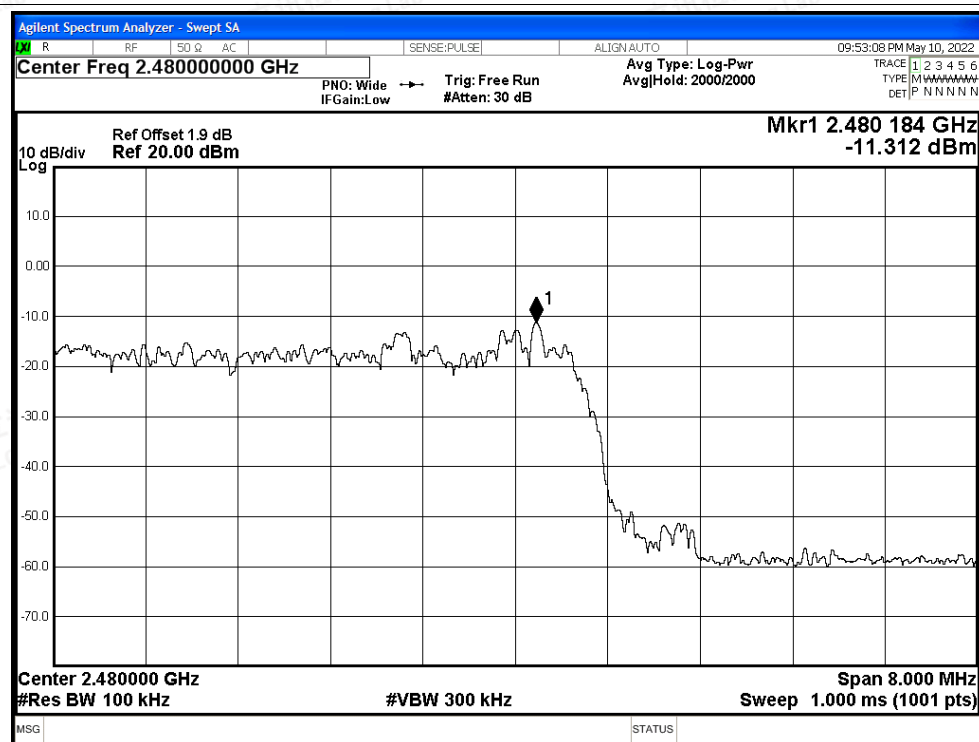


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

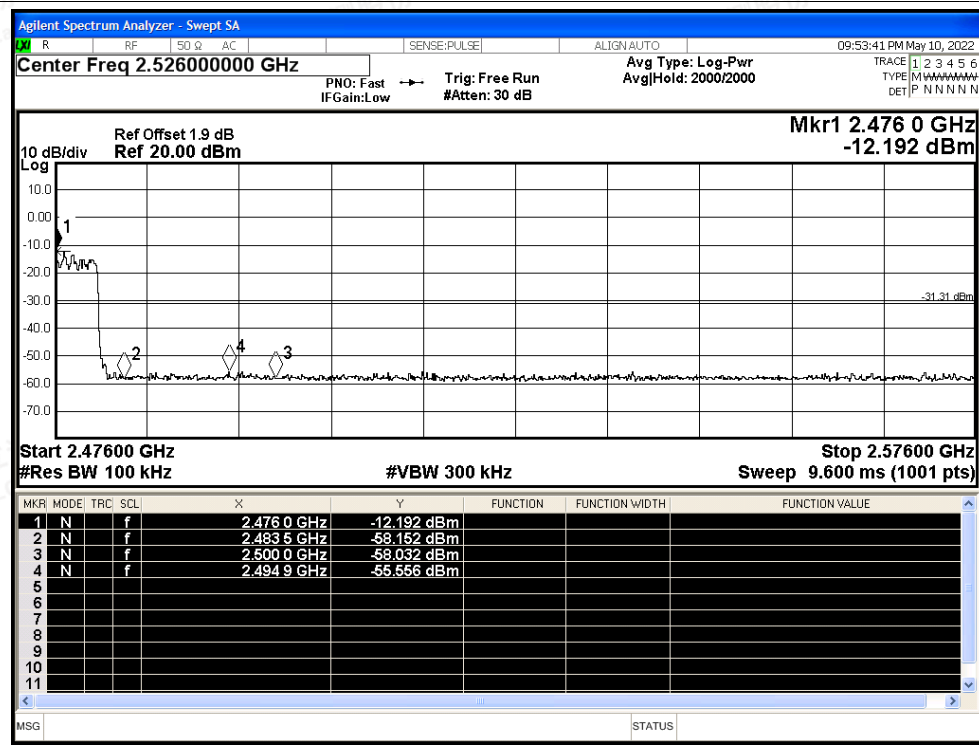




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-33.9	-20	Pass
NVNT	1-DH5	2441	Ant1	-36.99	-20	Pass
NVNT	1-DH5	2480	Ant1	-37.57	-20	Pass
NVNT	2-DH5	2402	Ant1	-37.78	-20	Pass
NVNT	2-DH5	2441	Ant1	-38.82	-20	Pass
NVNT	2-DH5	2480	Ant1	-39.71	-20	Pass

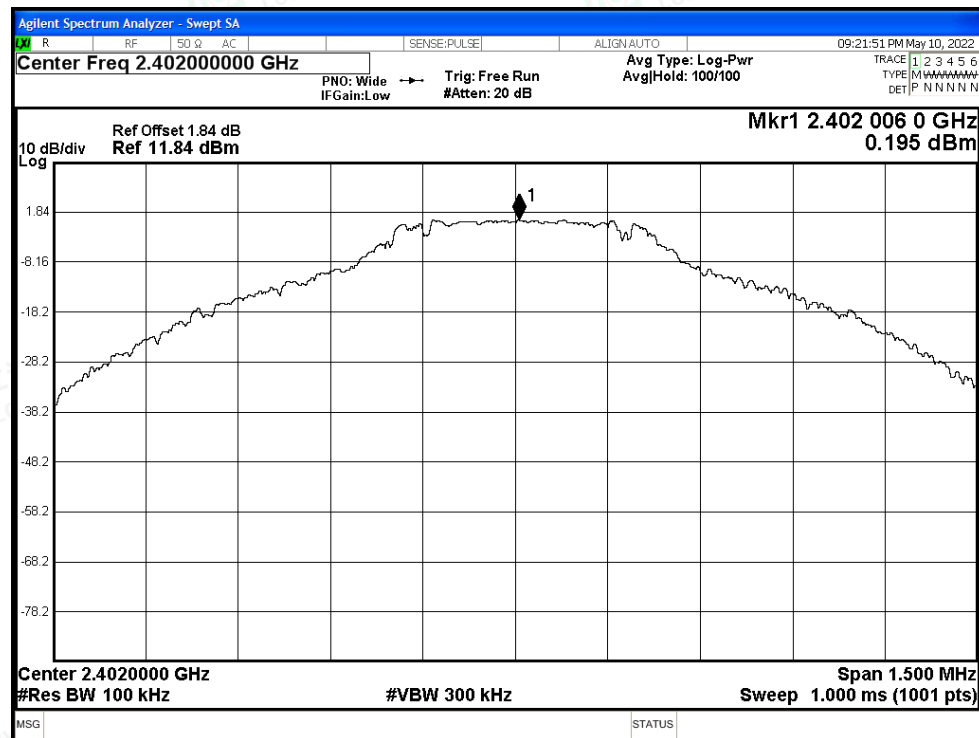


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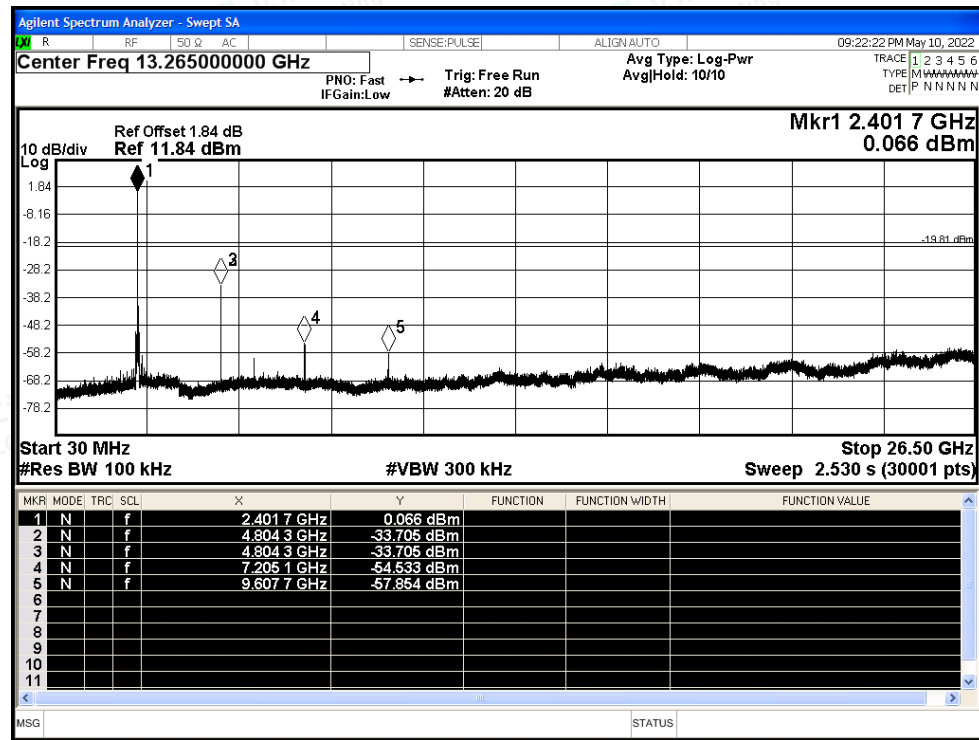


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

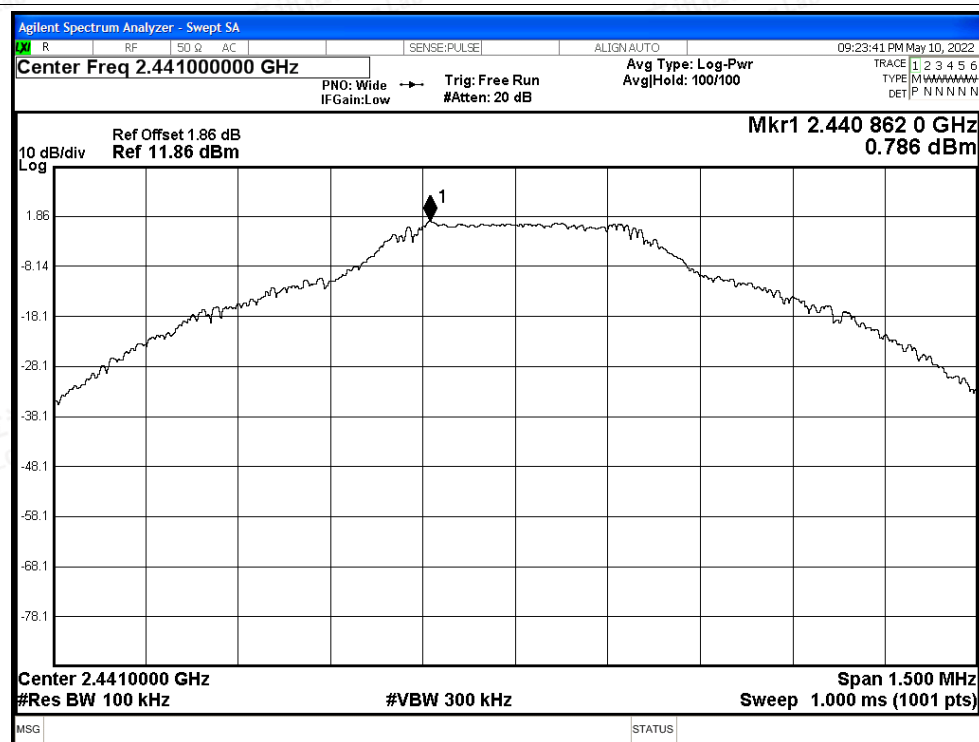


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

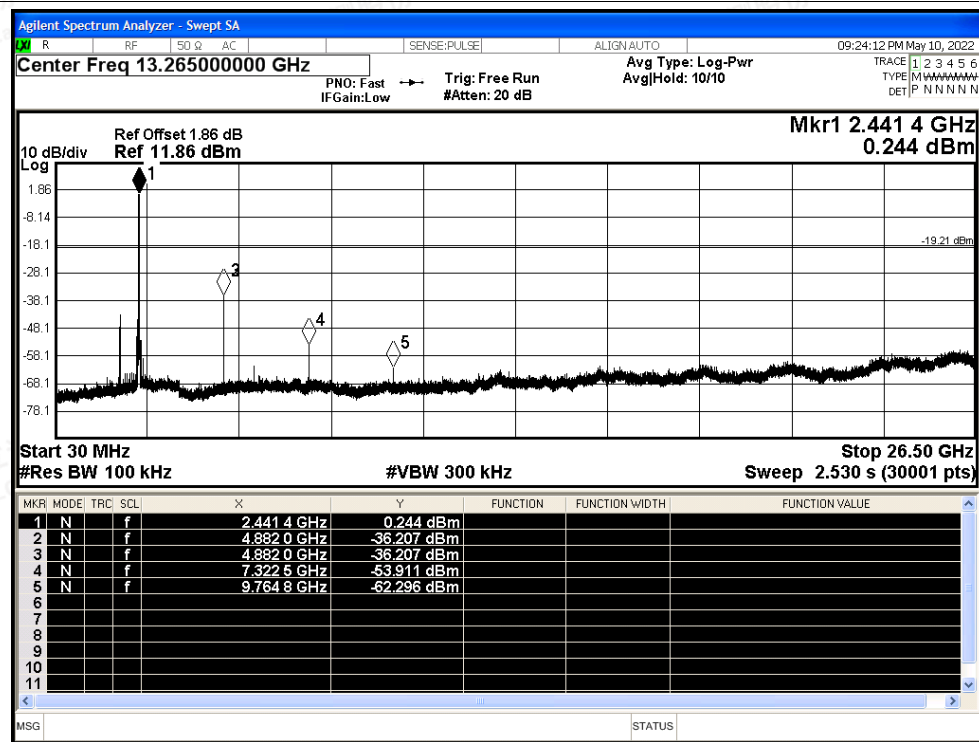




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

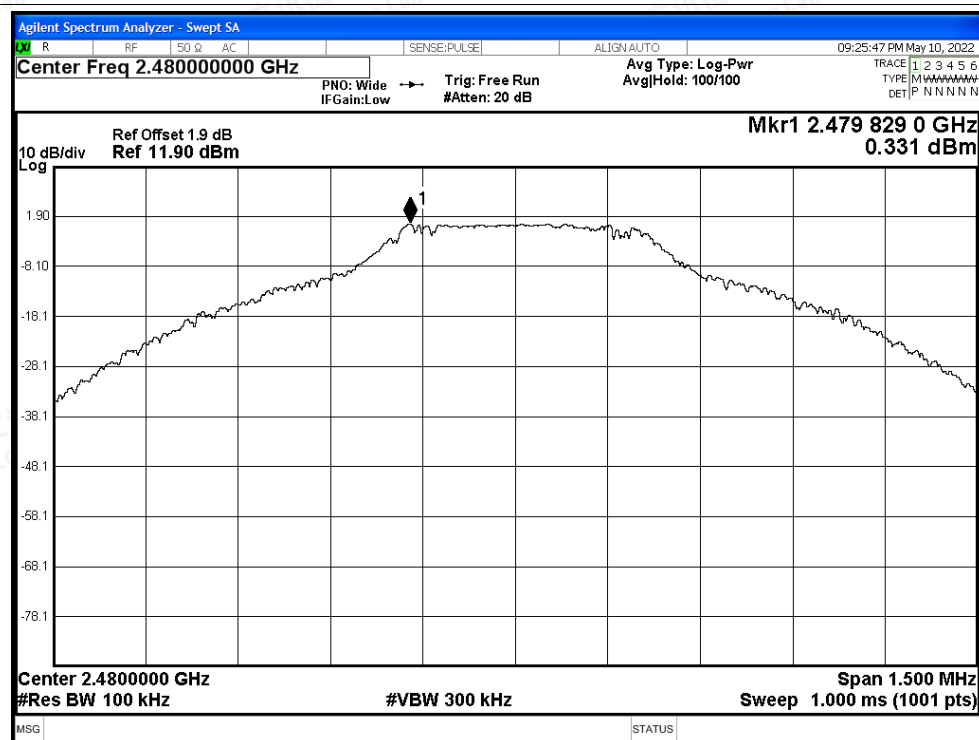


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

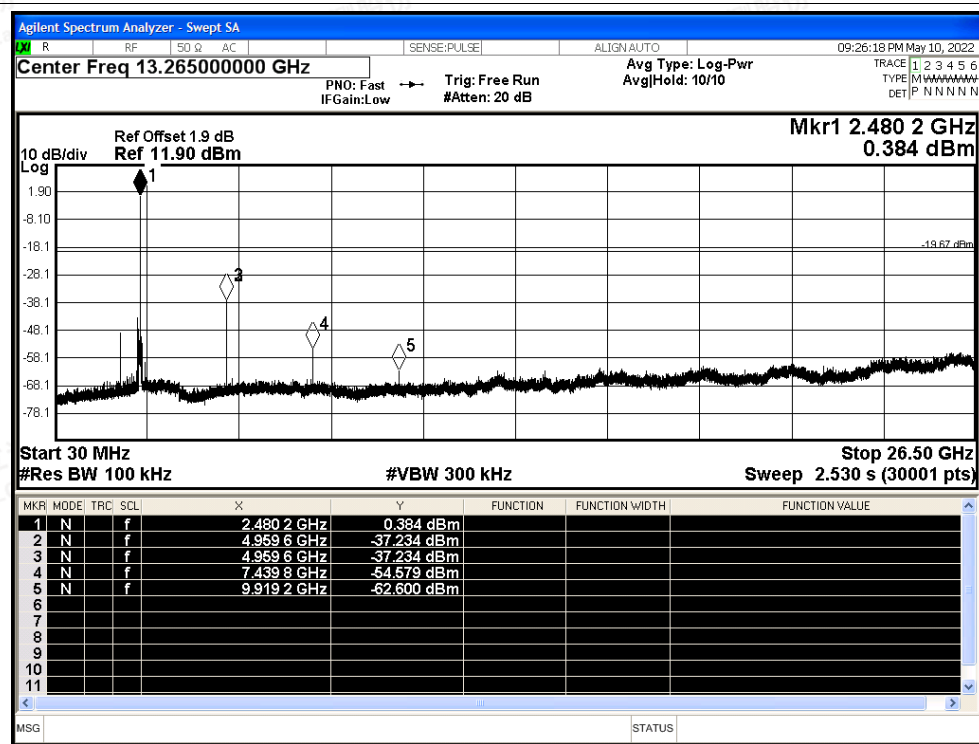




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

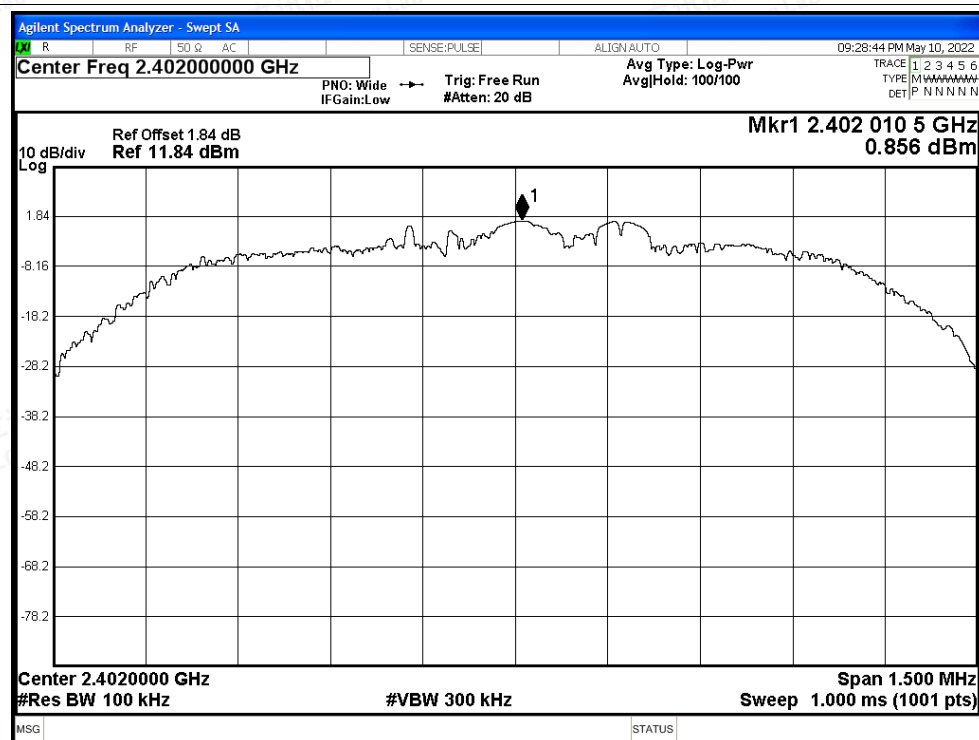


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

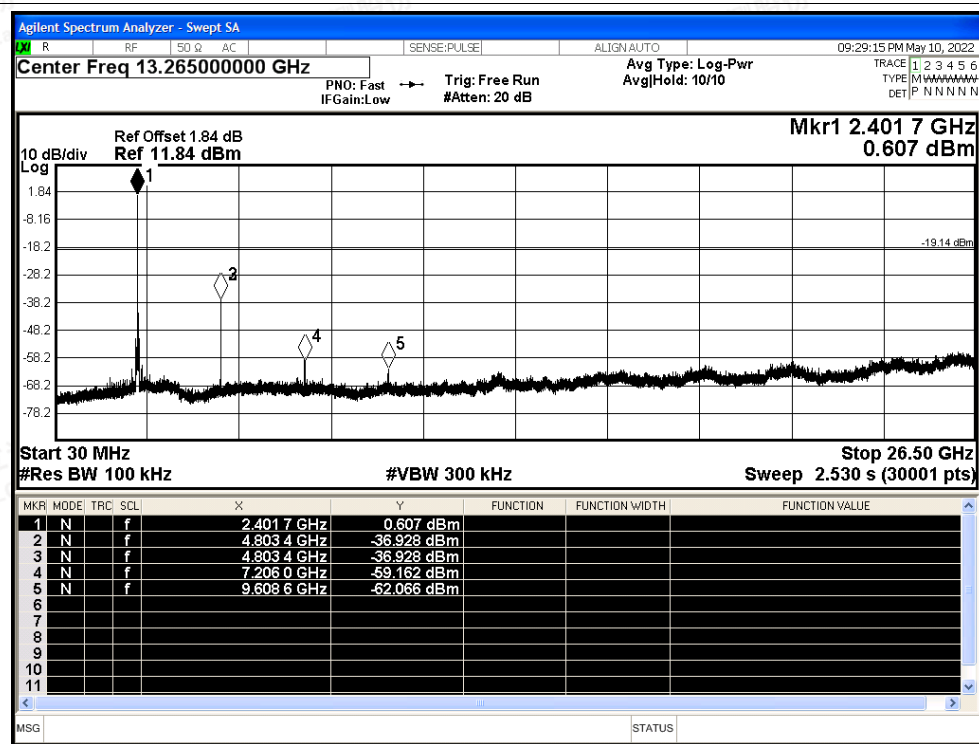




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

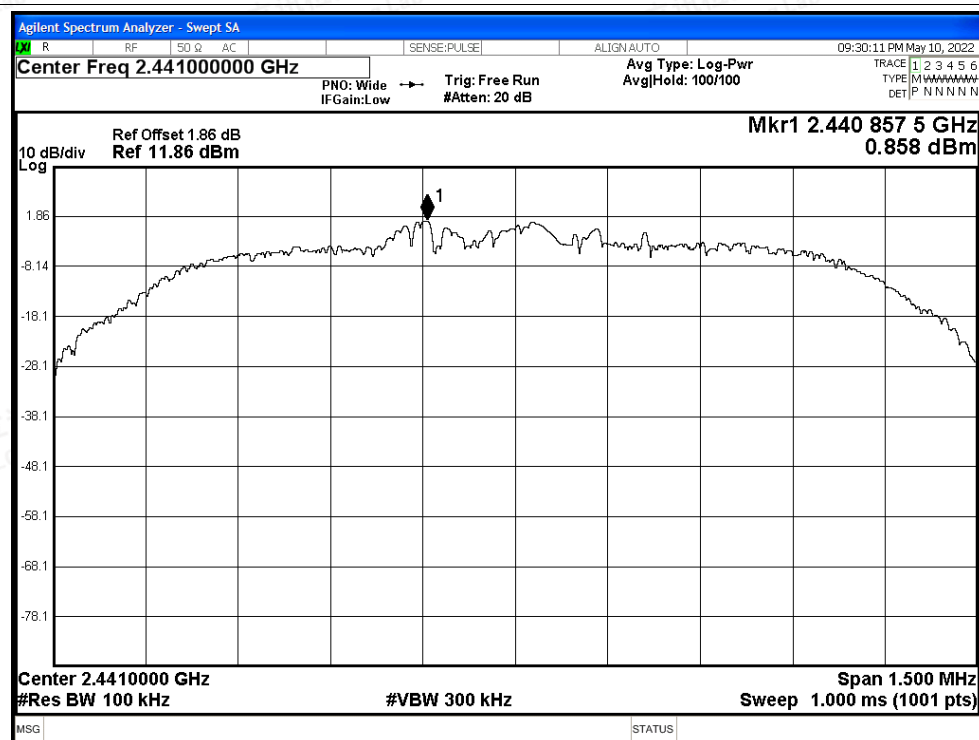


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

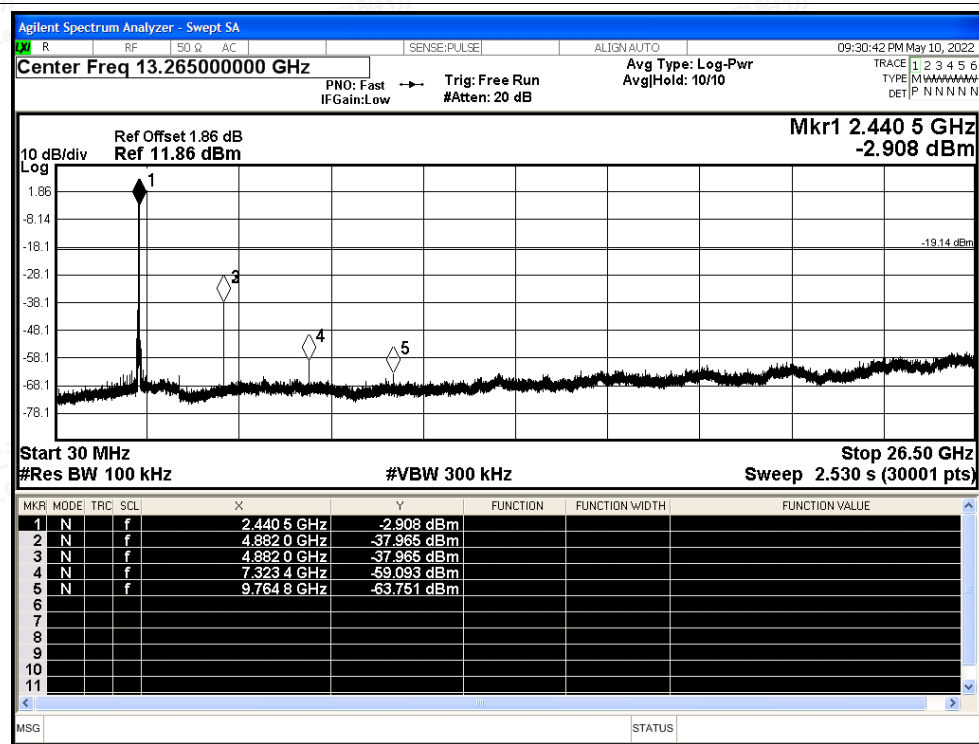




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

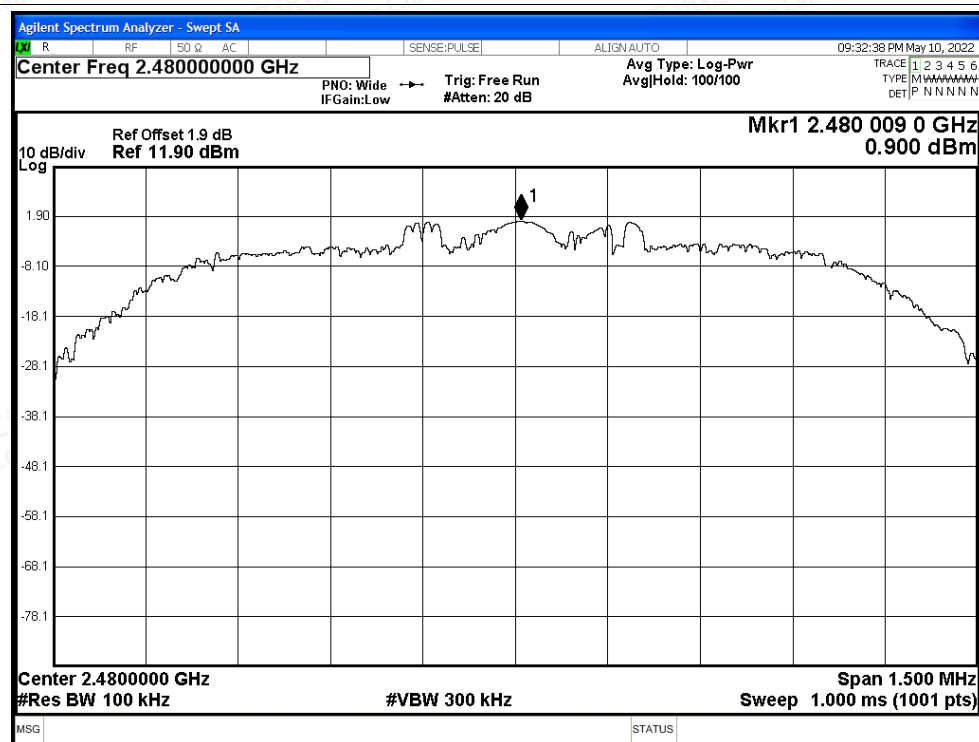


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

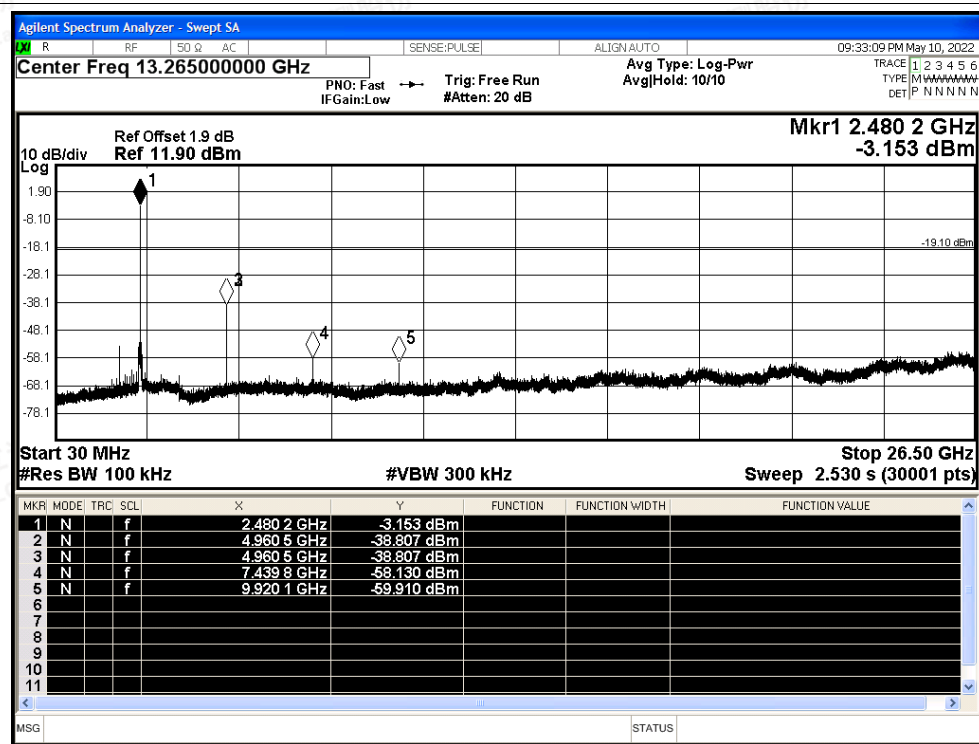




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-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	-60.7	2	36.56	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.328	-41.04	2	56.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.032	-50.57	2	46.69	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.41	2	48.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.41	2	39.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.23	2	48.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.29	2	37.97	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.648	-47.36	2	49.9	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.968	-58.75	2	38.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.19	2	48.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.09	2	38.17	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.84	2	45.42	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.66	2	36.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2370.192	-41.51	2	55.75	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2338.224	-52.82	2	44.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.29	2	48.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.61	2	39.65	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.57	2	47.69	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.59	2	37.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.792	-46.89	2	50.37	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.064	-58.98	2	38.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.11	2	48.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.26	2	38	Average	54	Pass

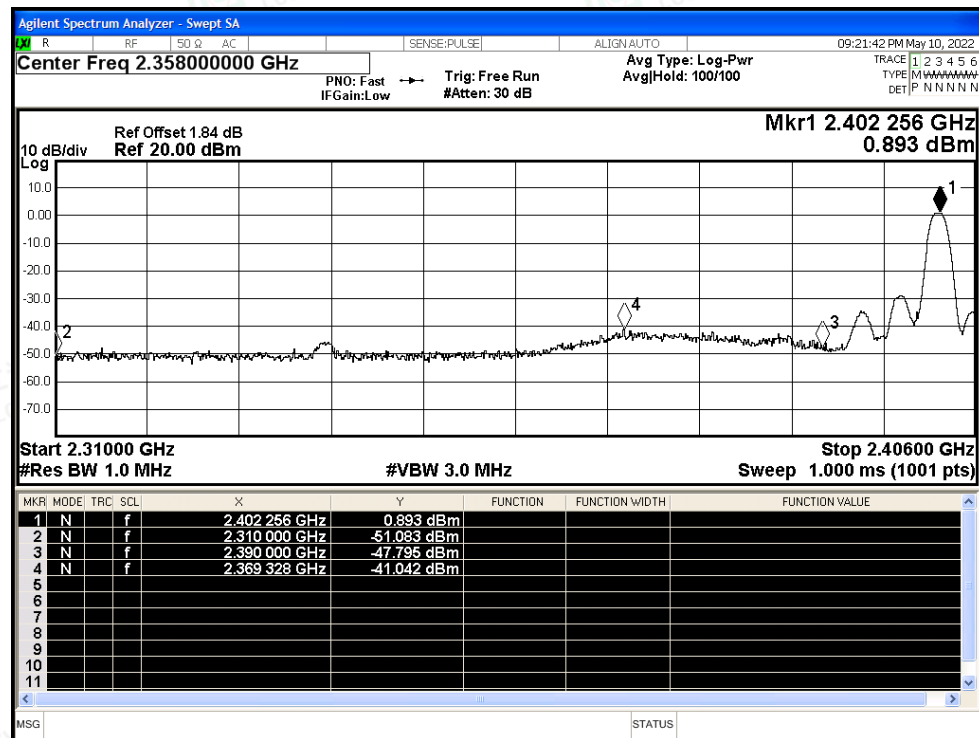


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Scan code to check authenticity

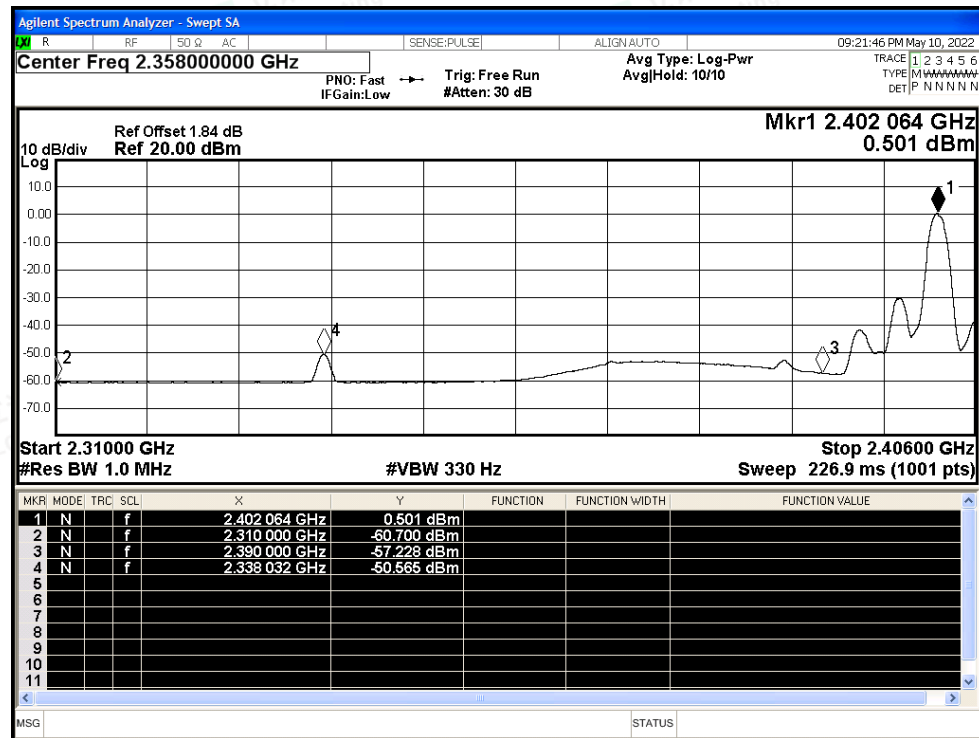


Test Graphs

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

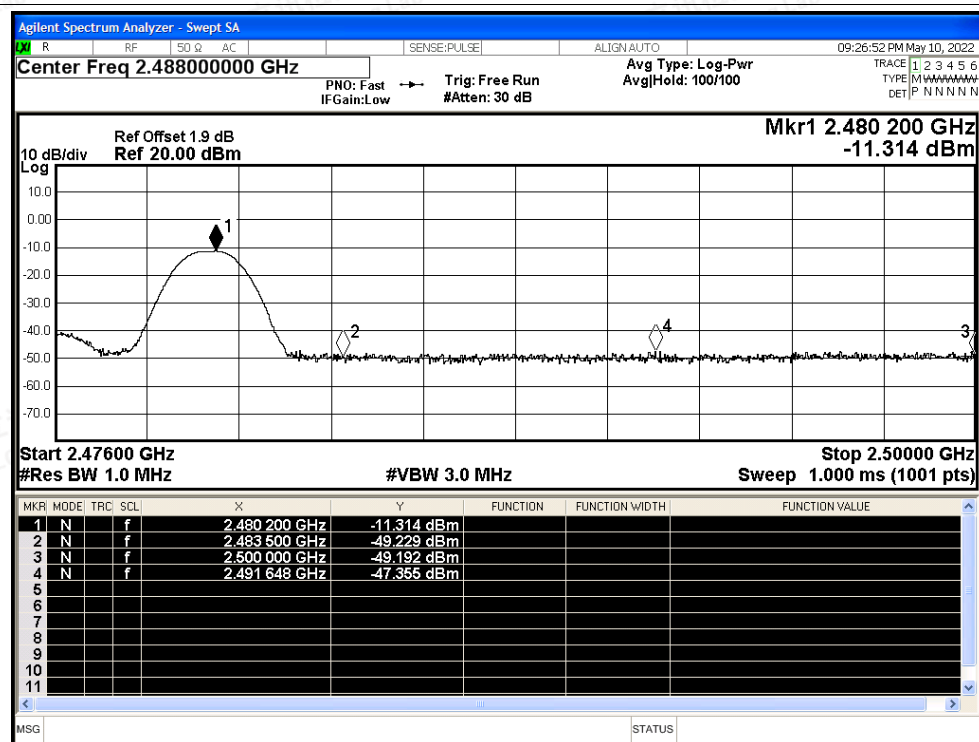


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

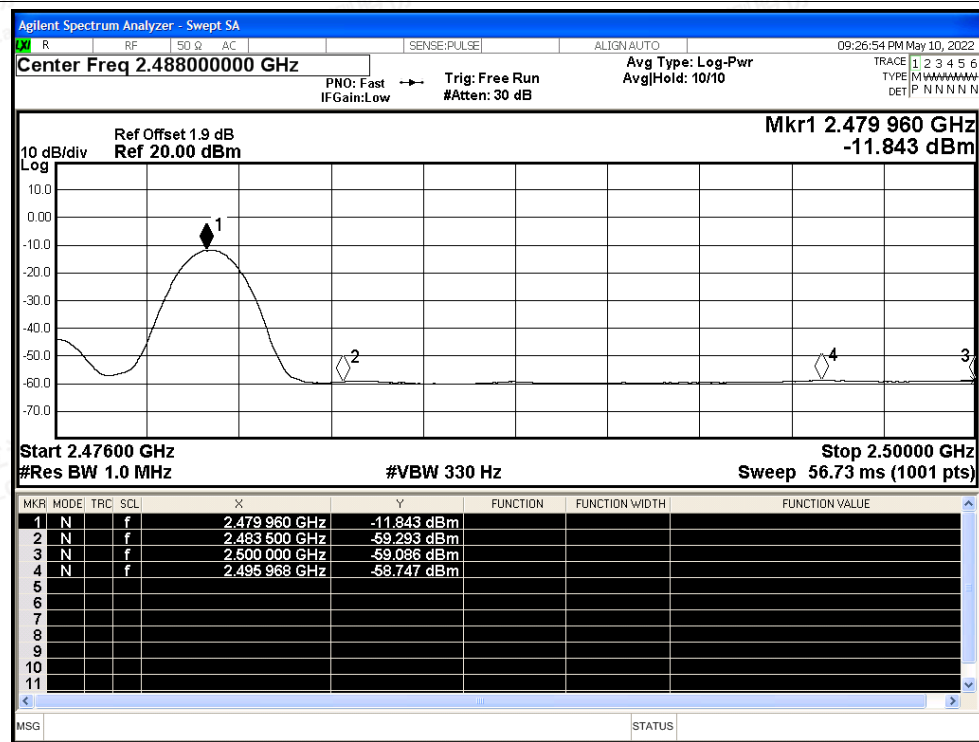




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

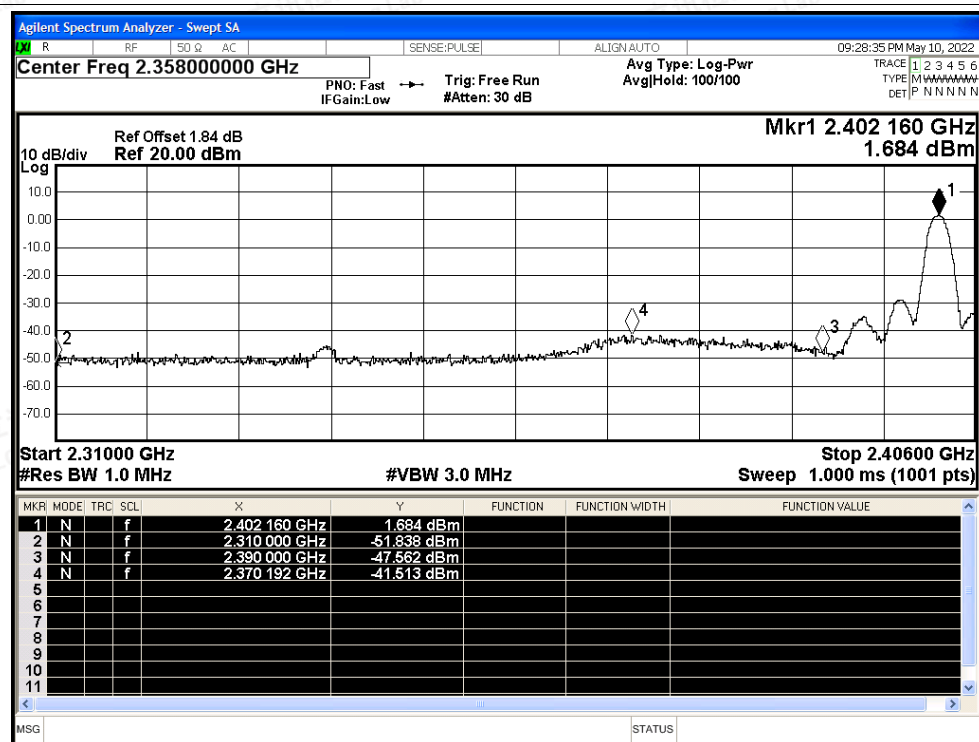


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

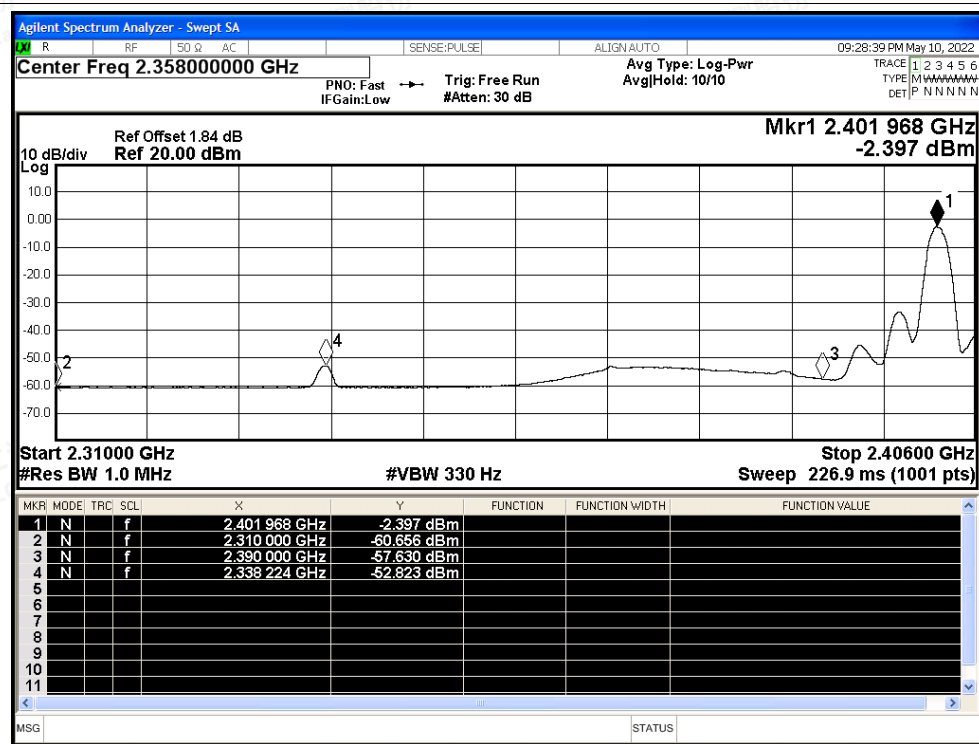




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

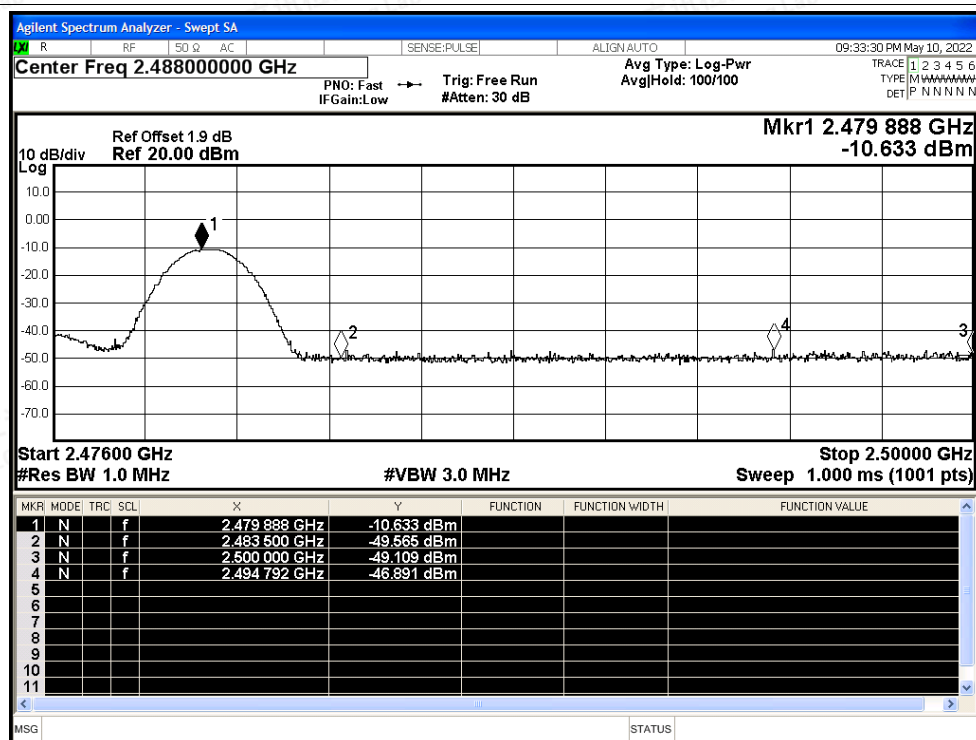


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

