



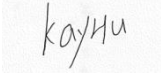
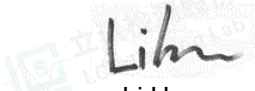
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SOUND CARD

Test Model: PKSCRD308

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
Supervised by:	 Li Huan





A.1 -20dB Bandwidth

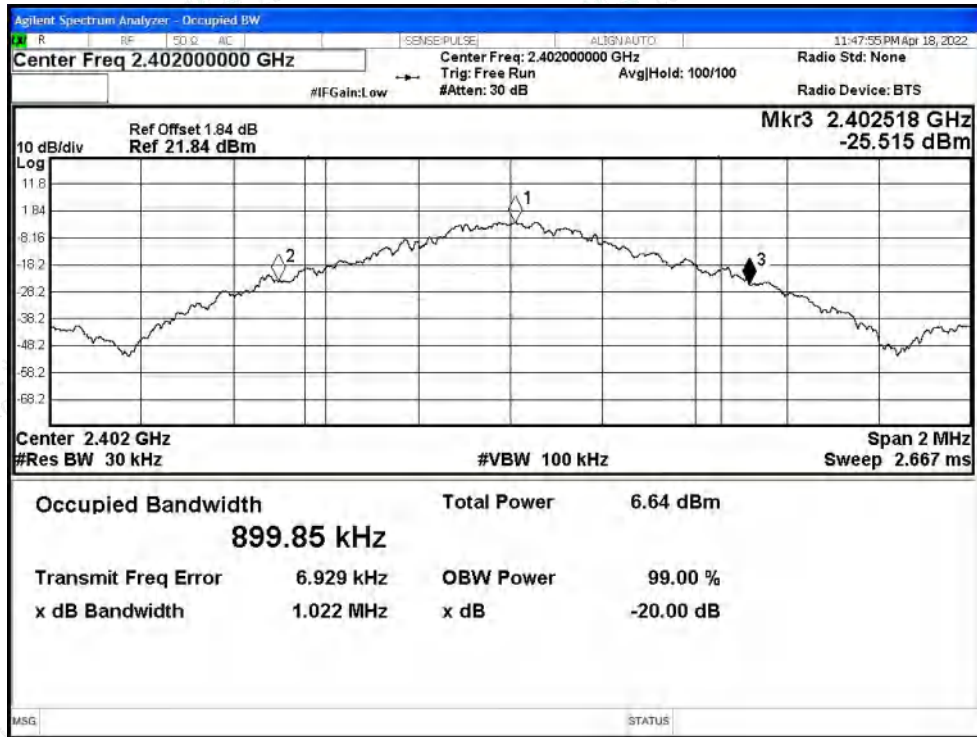
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.022	0	Pass
NVNT	1-DH5	2441	Ant1	1.033	0	Pass
NVNT	1-DH5	2480	Ant1	1.029	0	Pass
NVNT	2-DH5	2402	Ant1	1.293	0	Pass
NVNT	2-DH5	2441	Ant1	1.285	0	Pass
NVNT	2-DH5	2480	Ant1	1.323	0	Pass
NVNT	3-DH5	2402	Ant1	1.284	0	Pass
NVNT	3-DH5	2441	Ant1	1.302	0	Pass
NVNT	3-DH5	2480	Ant1	1.298	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

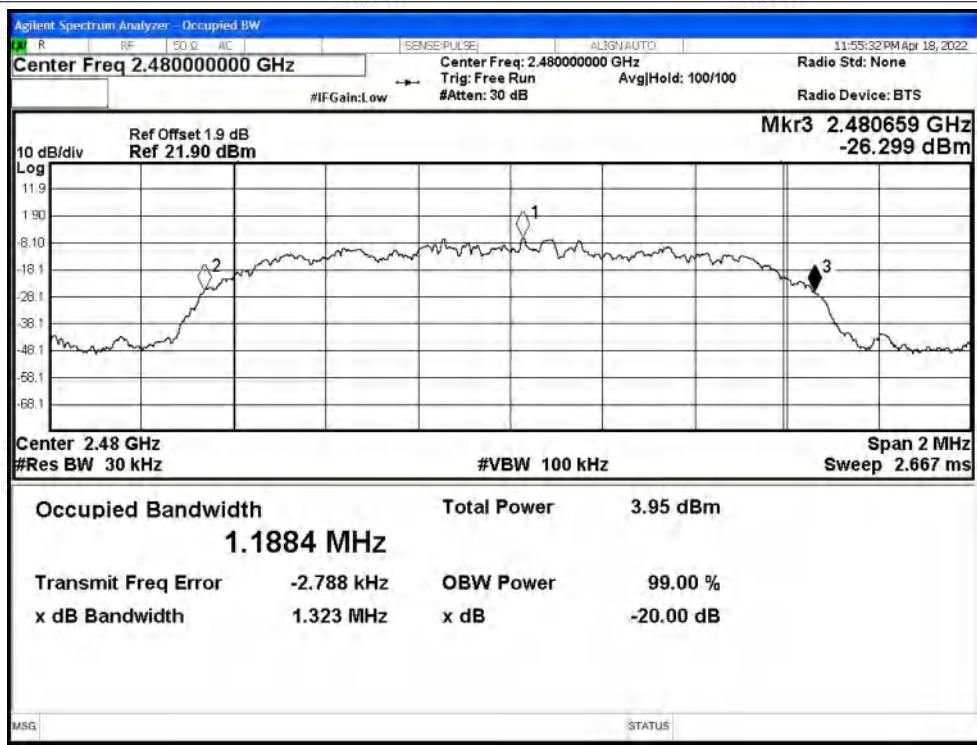




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

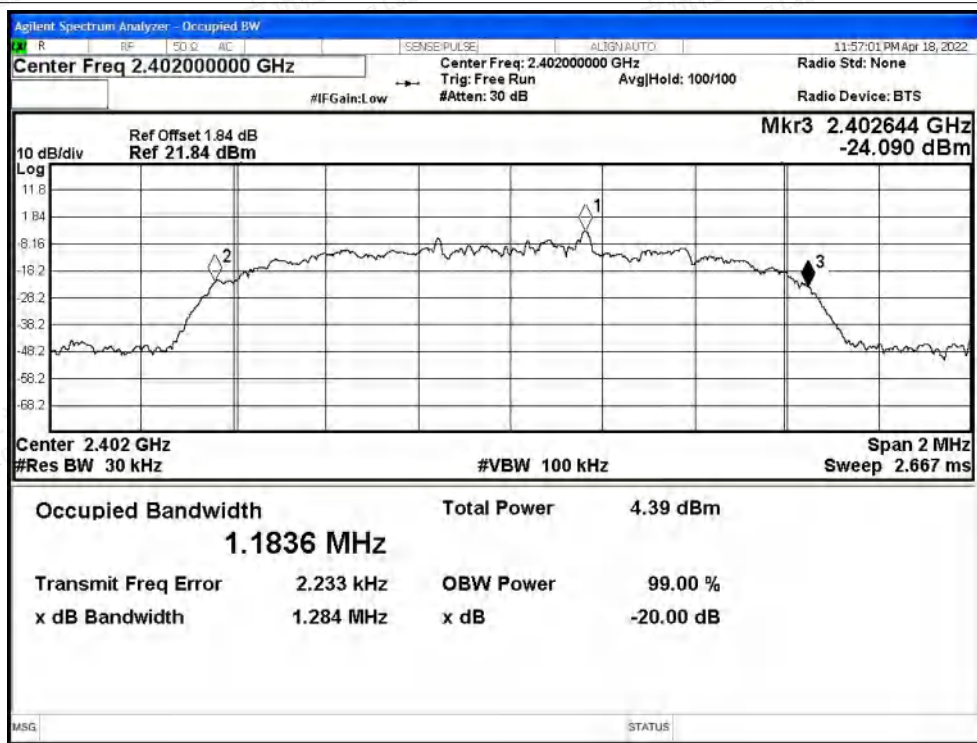


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

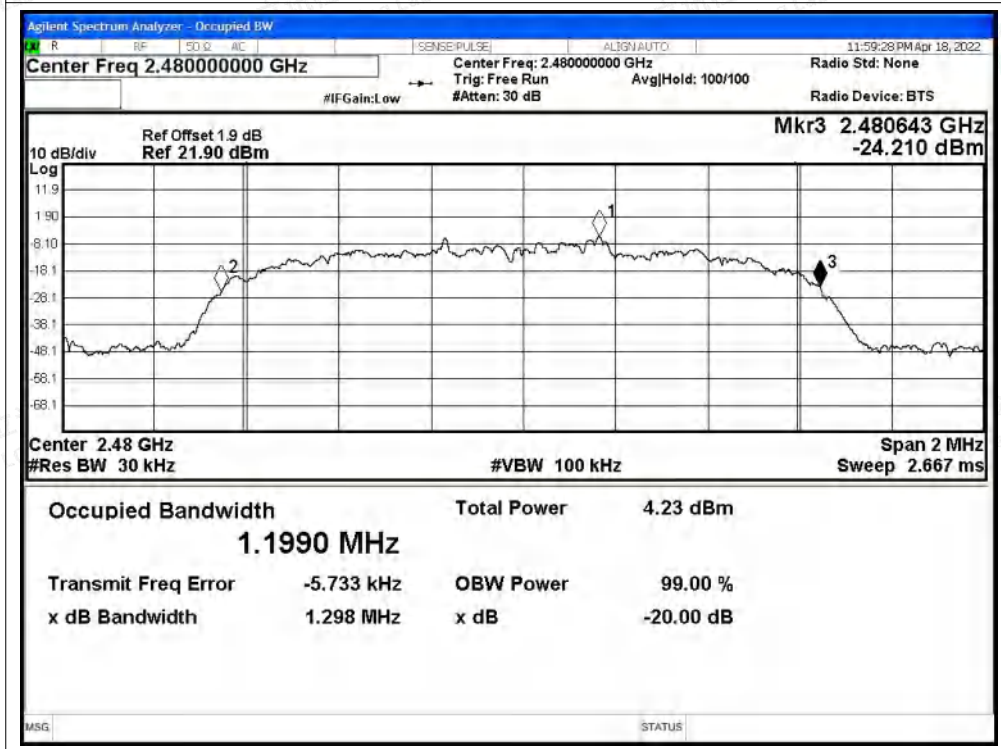


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

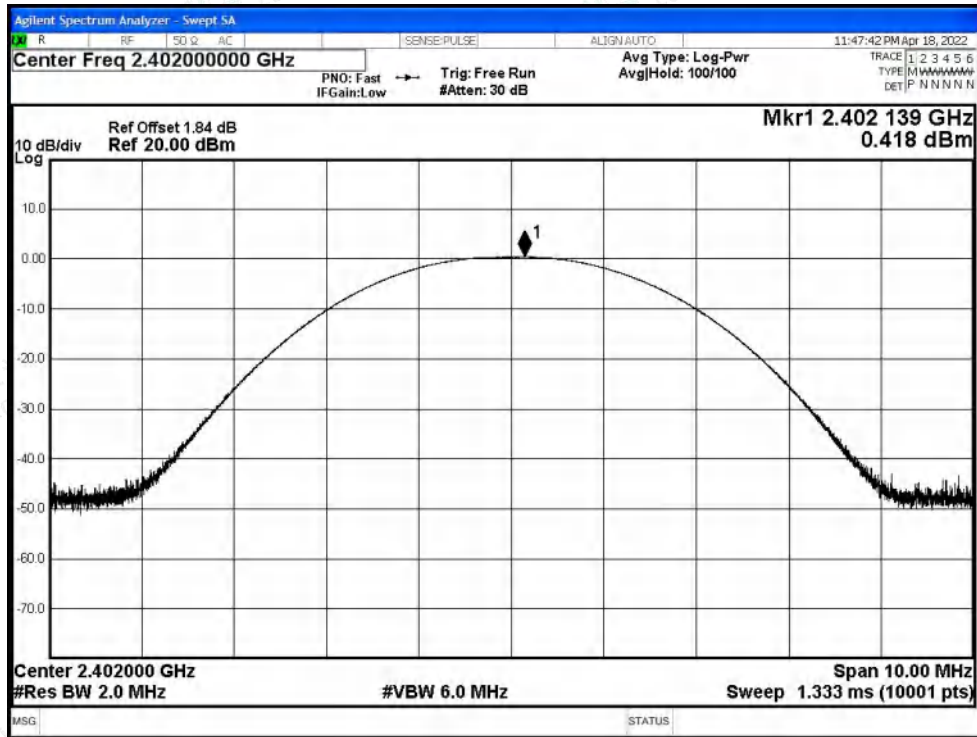
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.42	0.42	21	Pass
NVNT	1-DH5	2441	Ant1	1.07	1.07	21	Pass
NVNT	1-DH5	2480	Ant1	0.3	0.3	21	Pass
NVNT	2-DH5	2402	Ant1	-0.41	-0.41	21	Pass
NVNT	2-DH5	2441	Ant1	0.86	0.86	21	Pass
NVNT	2-DH5	2480	Ant1	-0.48	-0.48	21	Pass
NVNT	3-DH5	2402	Ant1	-0.26	-0.26	21	Pass
NVNT	3-DH5	2441	Ant1	0.36	0.36	21	Pass
NVNT	3-DH5	2480	Ant1	-0.37	-0.37	21	Pass



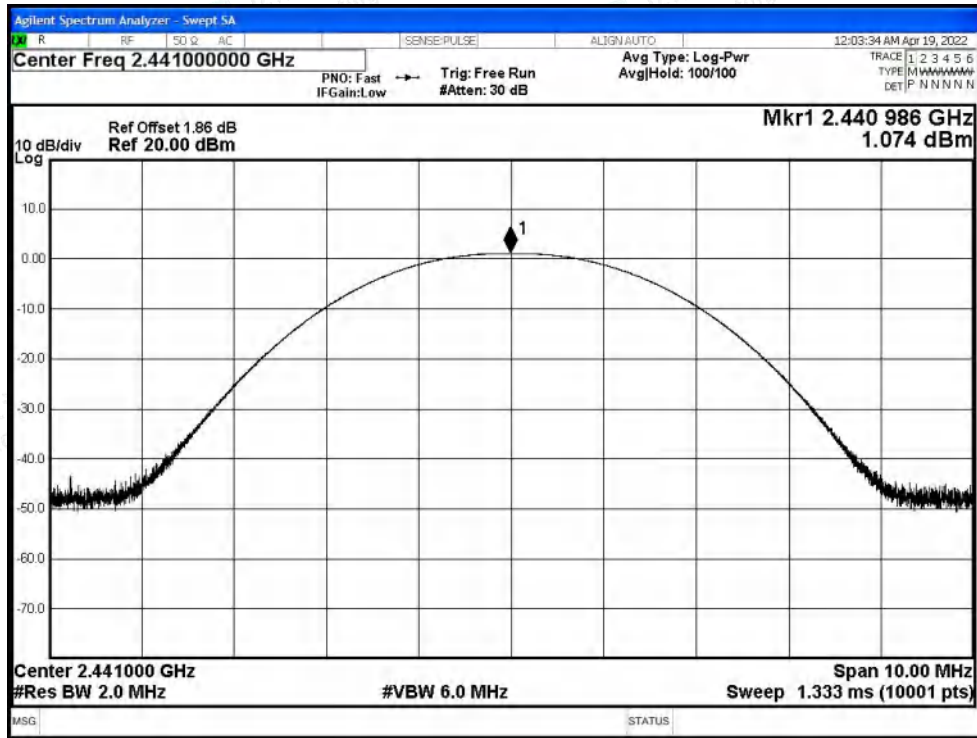


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

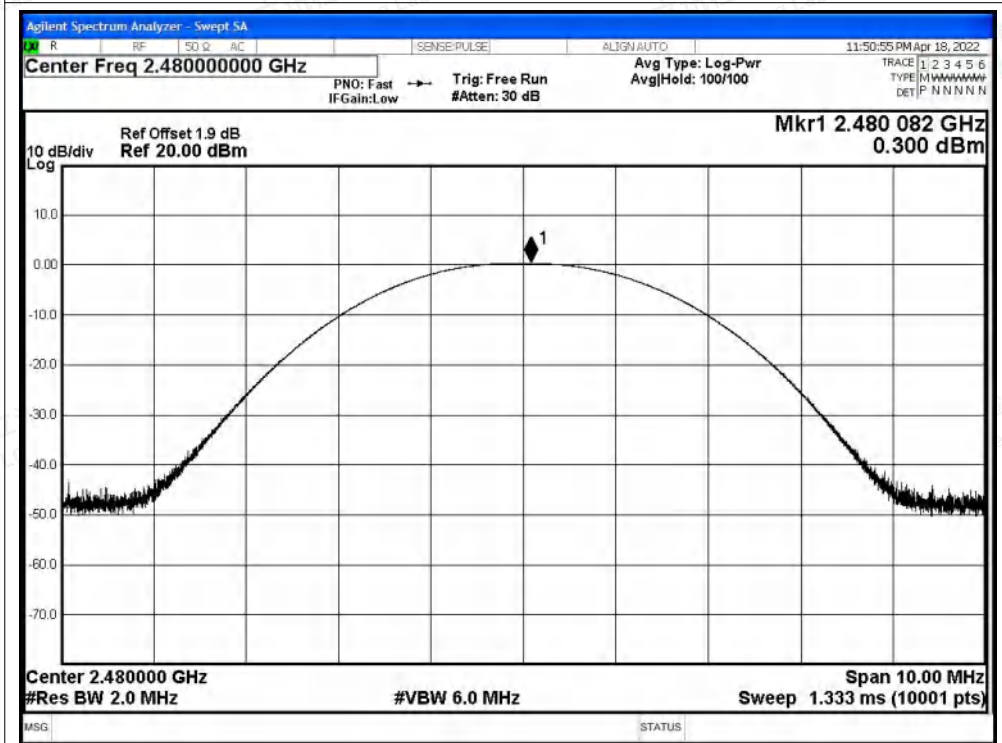


Power NVNT 1-DH5 2441MHz Ant1

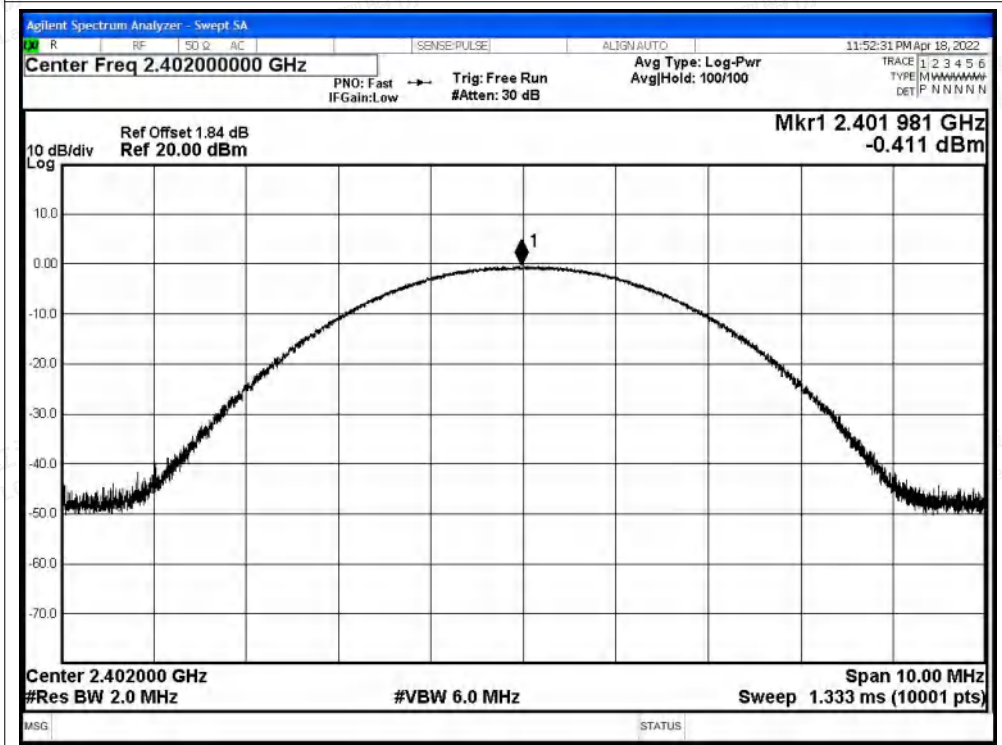




Power NVNT 1-DH5 2480MHz Ant1

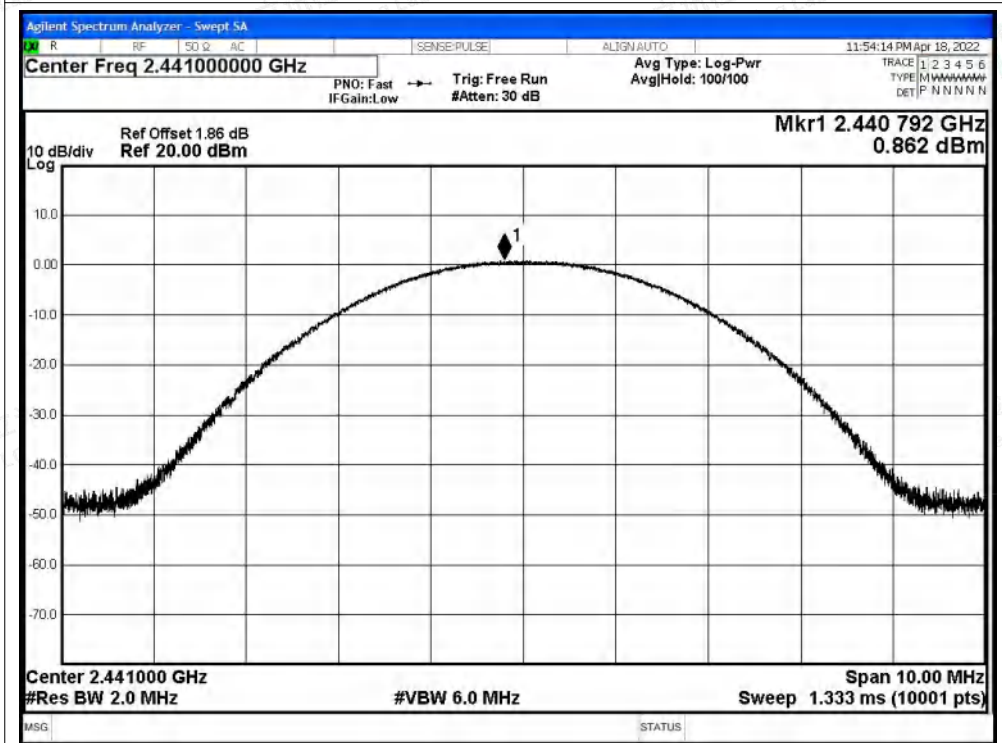


Power NVNT 2-DH5 2402MHz Ant1

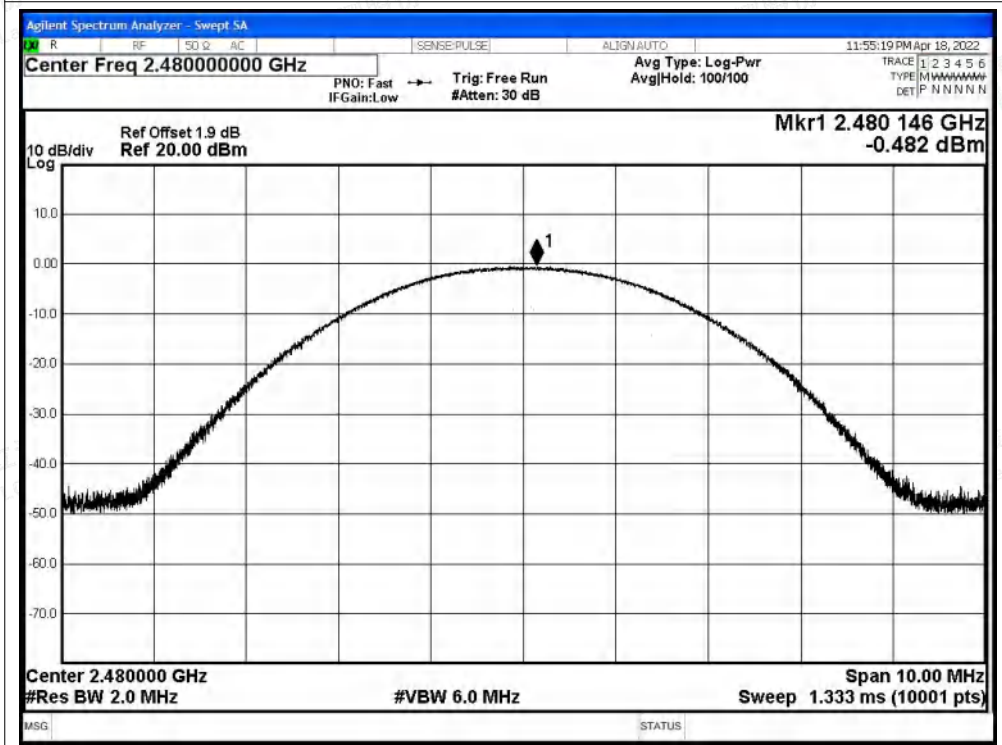




Power NVNT 2-DH5 2441MHz Ant1

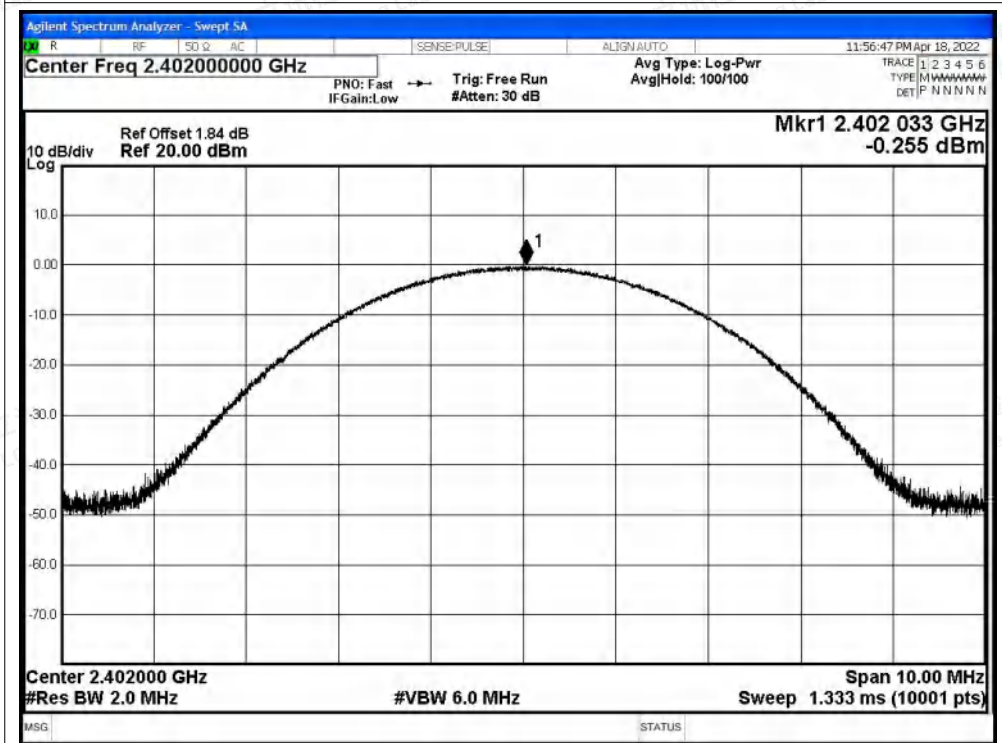


Power NVNT 2-DH5 2480MHz Ant1

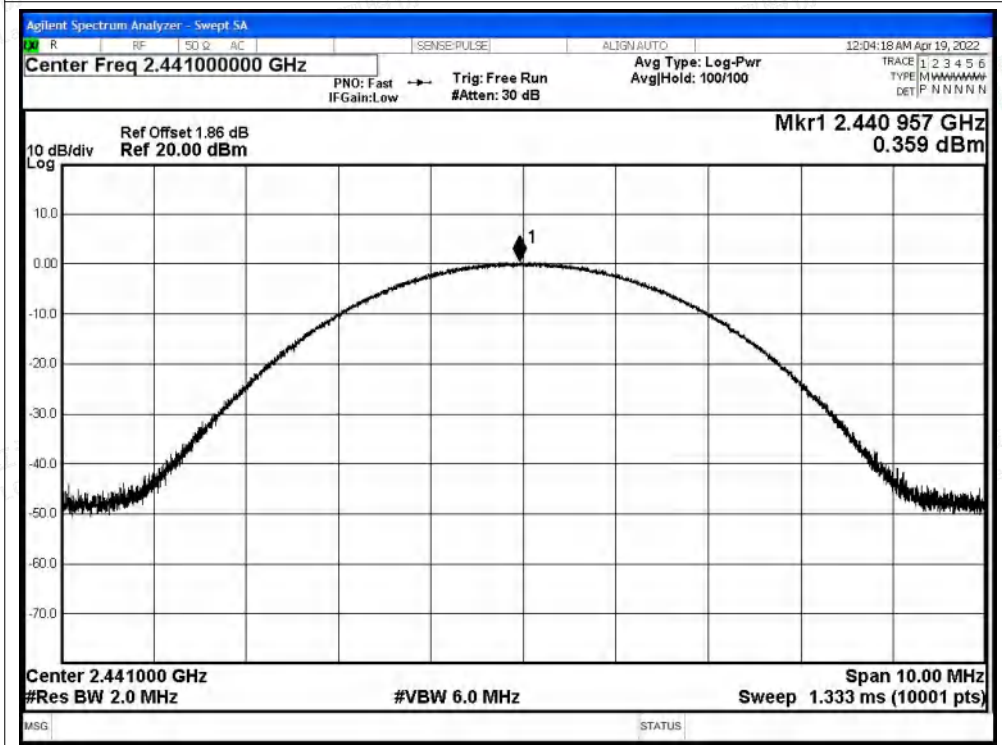


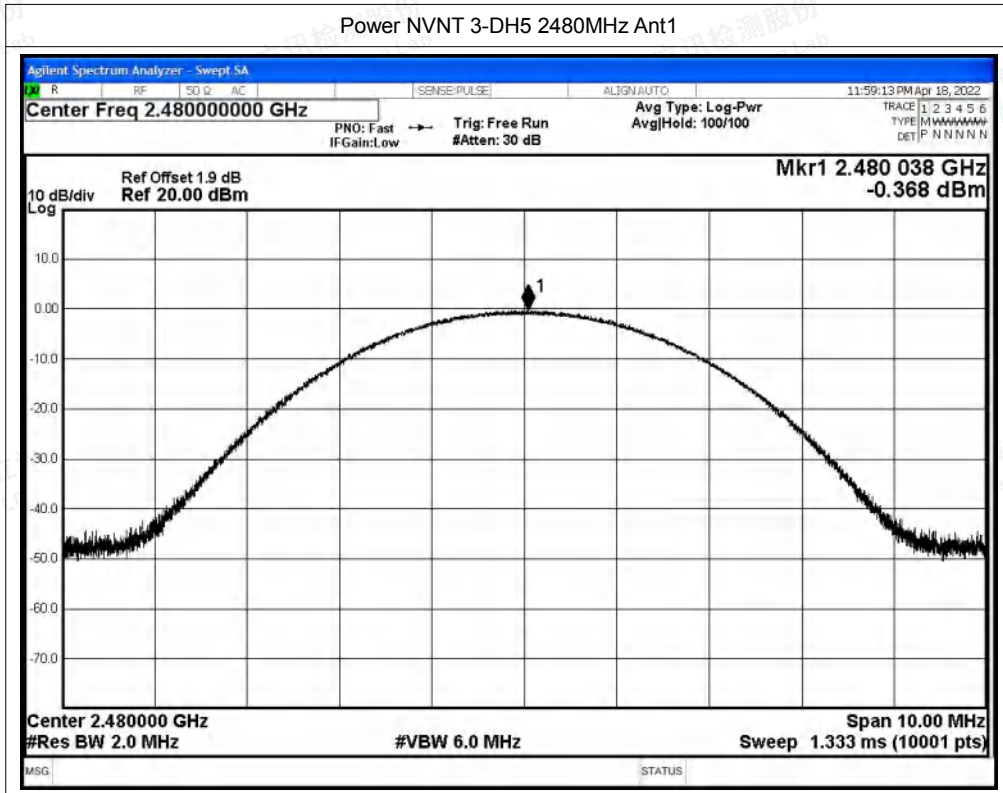


Power NVNT 3-DH5 2402MHz Ant1



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	2441.012	2442.014	1.002	0.689	Pass
NVNT	2-DH5	Ant1	2440.84	2442.162	1.322	0.857	Pass
NVNT	3-DH5	Ant1	2441.166	2442.164	0.998	0.868	Pass

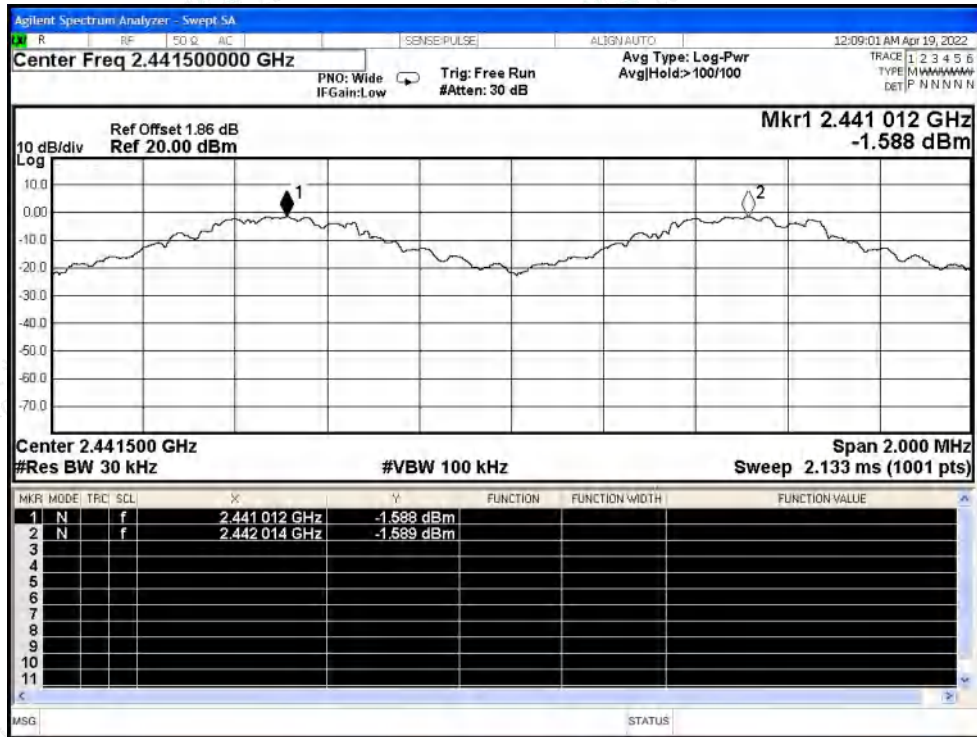


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Scan code to check authenticity

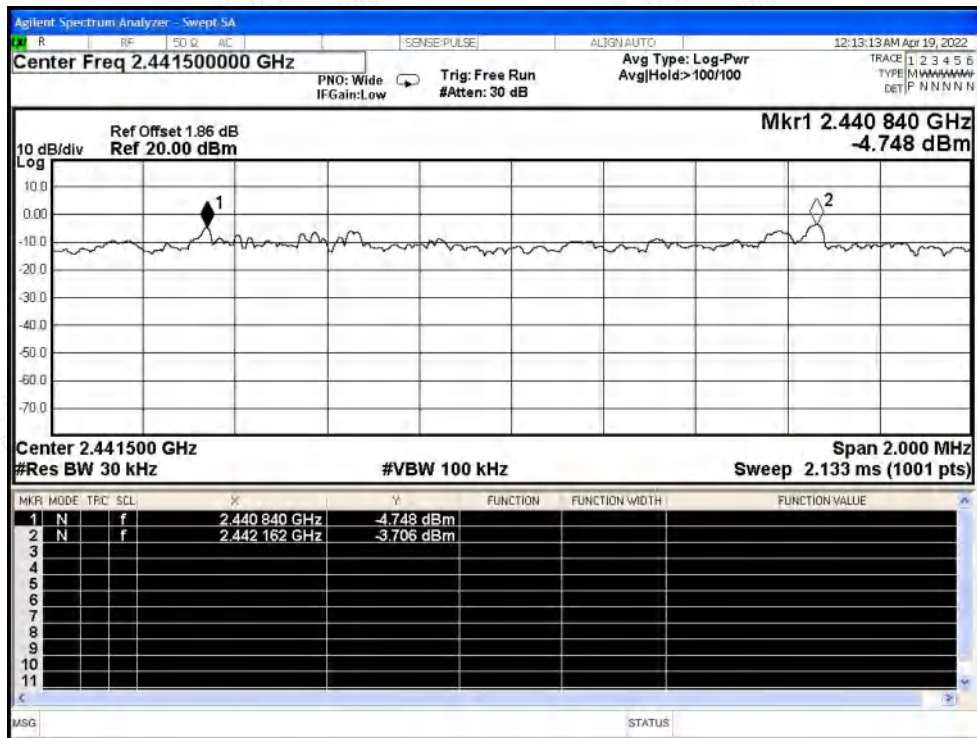


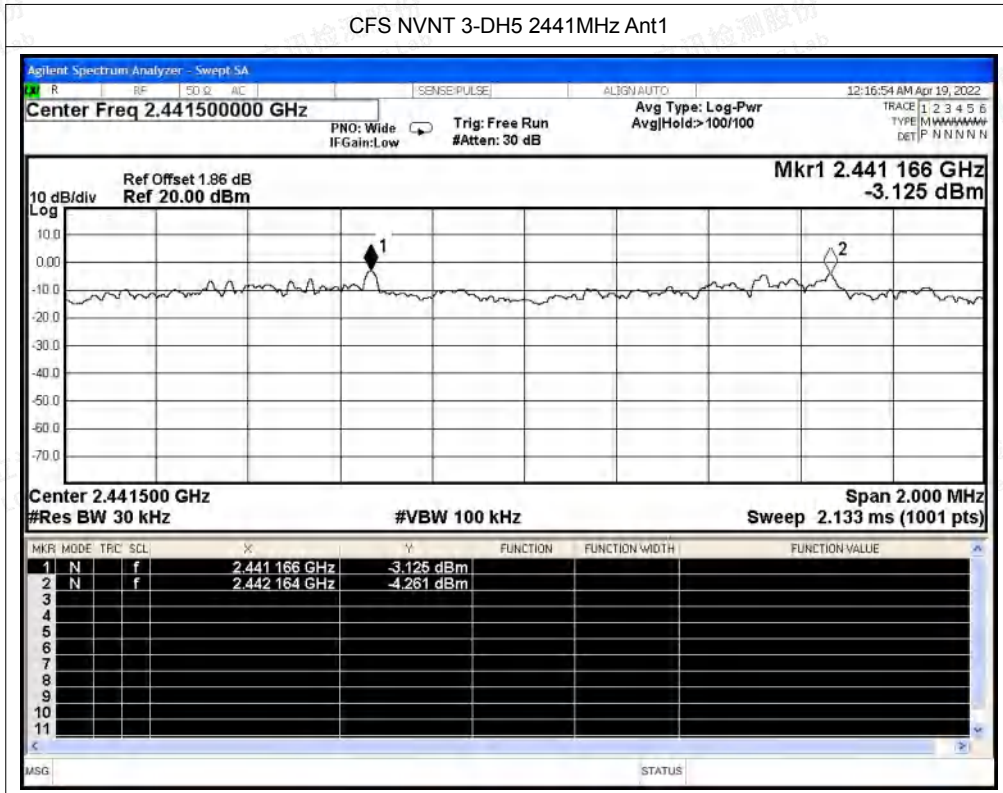
Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz 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	2441	Ant1	2.881	296.743	103	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	334.66	116	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	311.796	108	31600	400	Pass

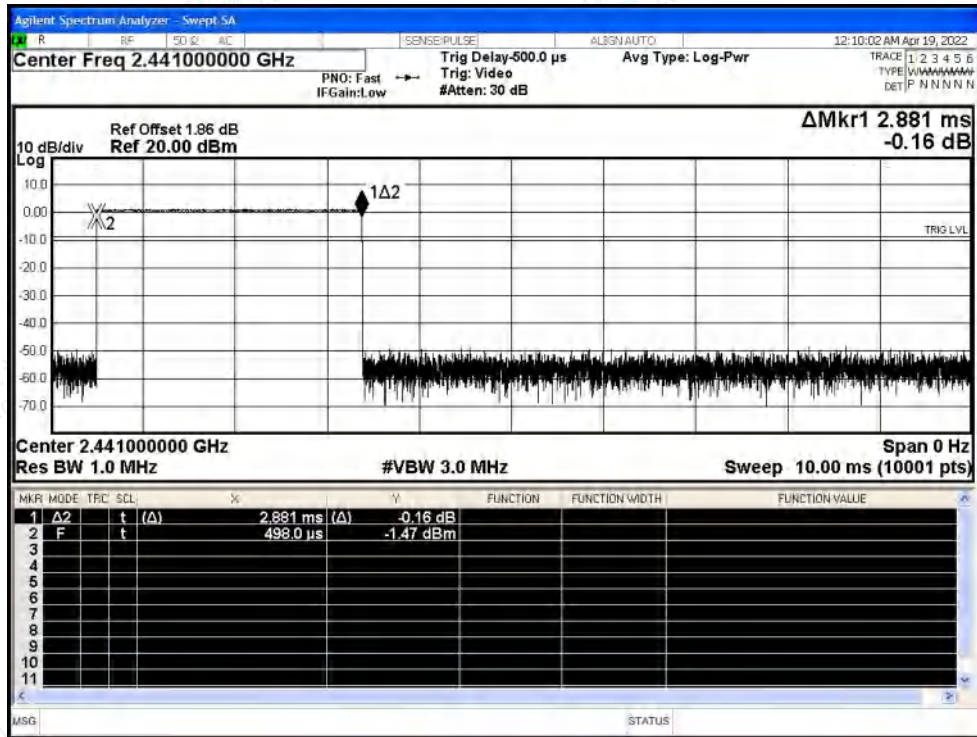


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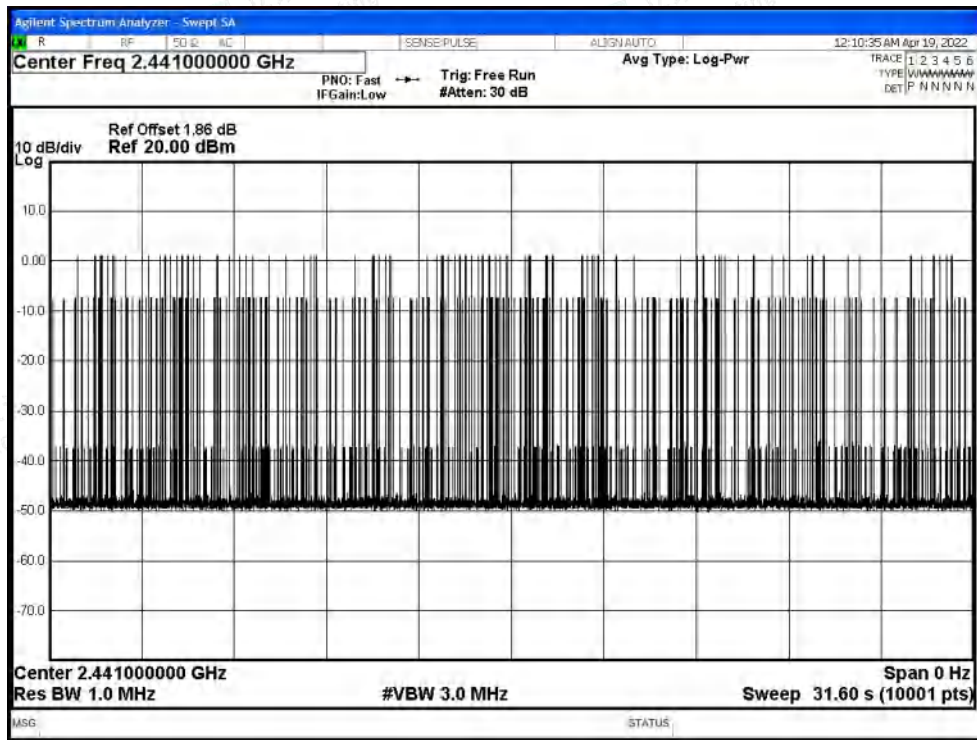


Test Graphs

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

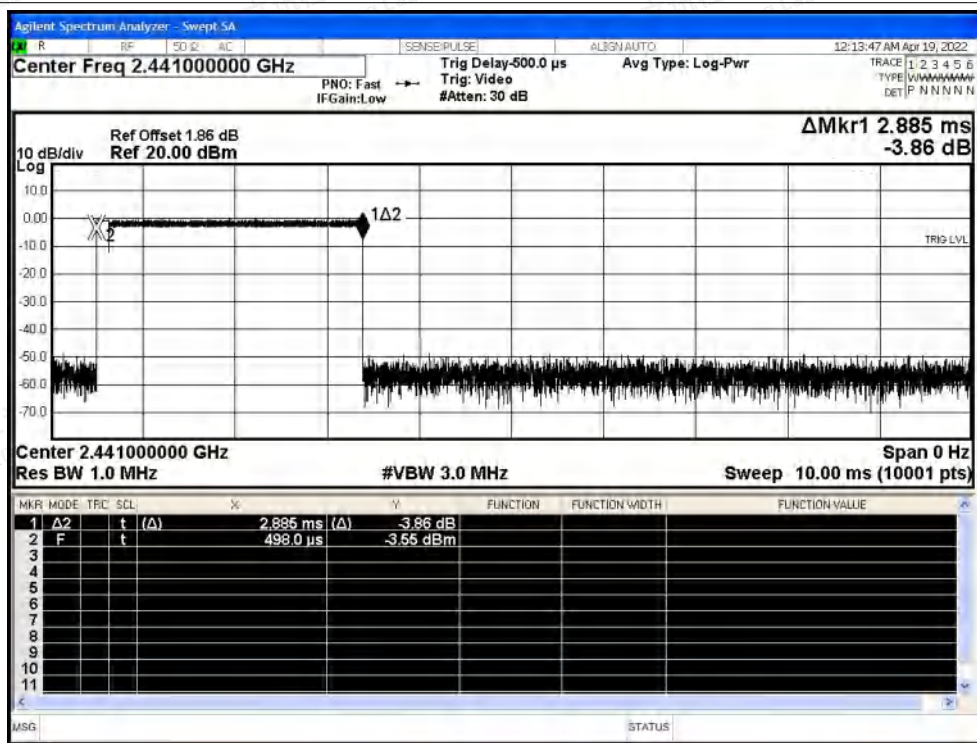


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

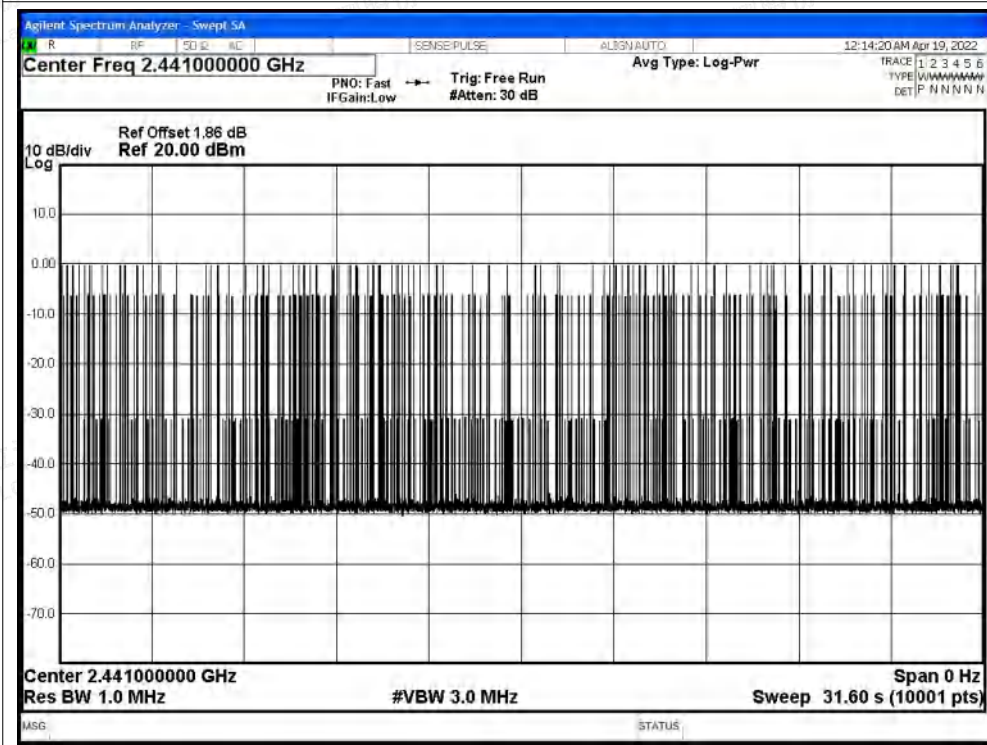




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

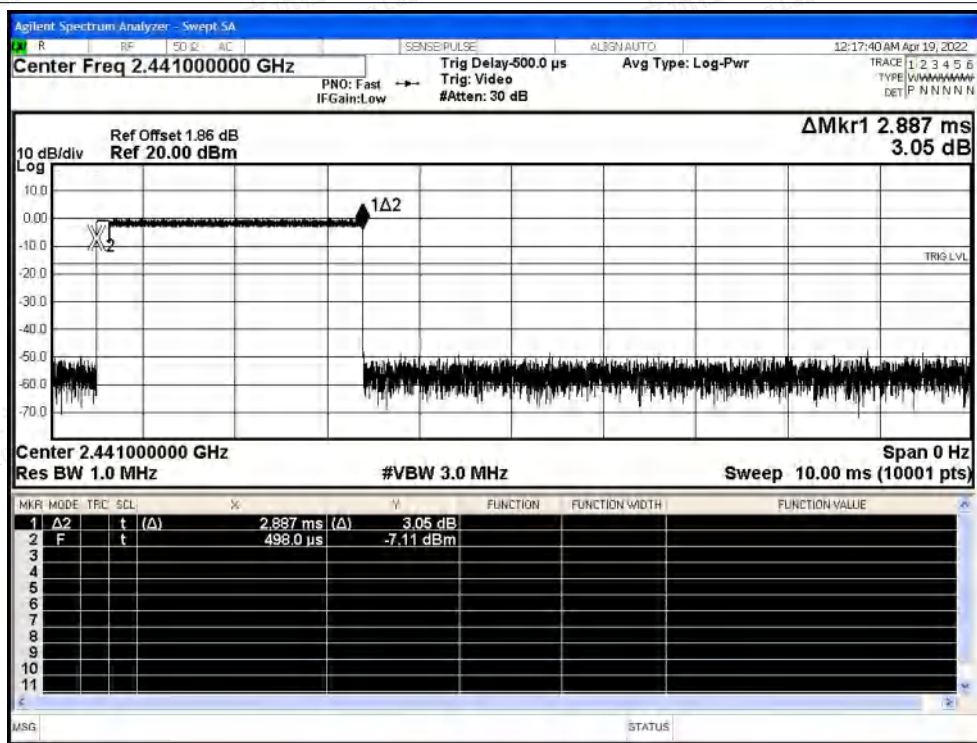


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

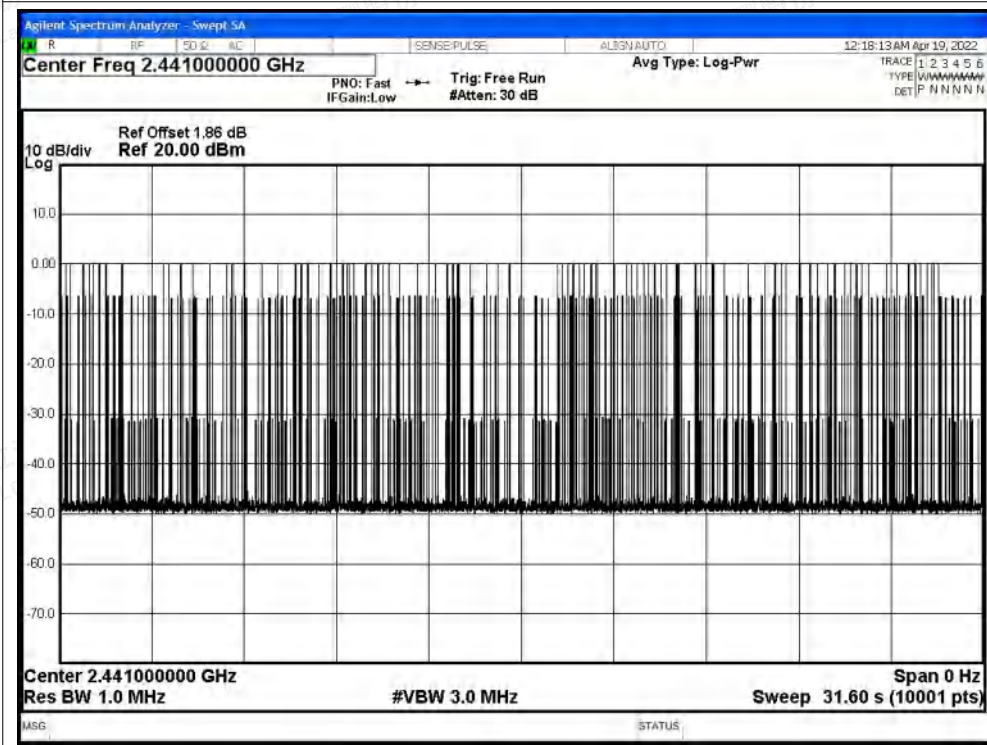




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz 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

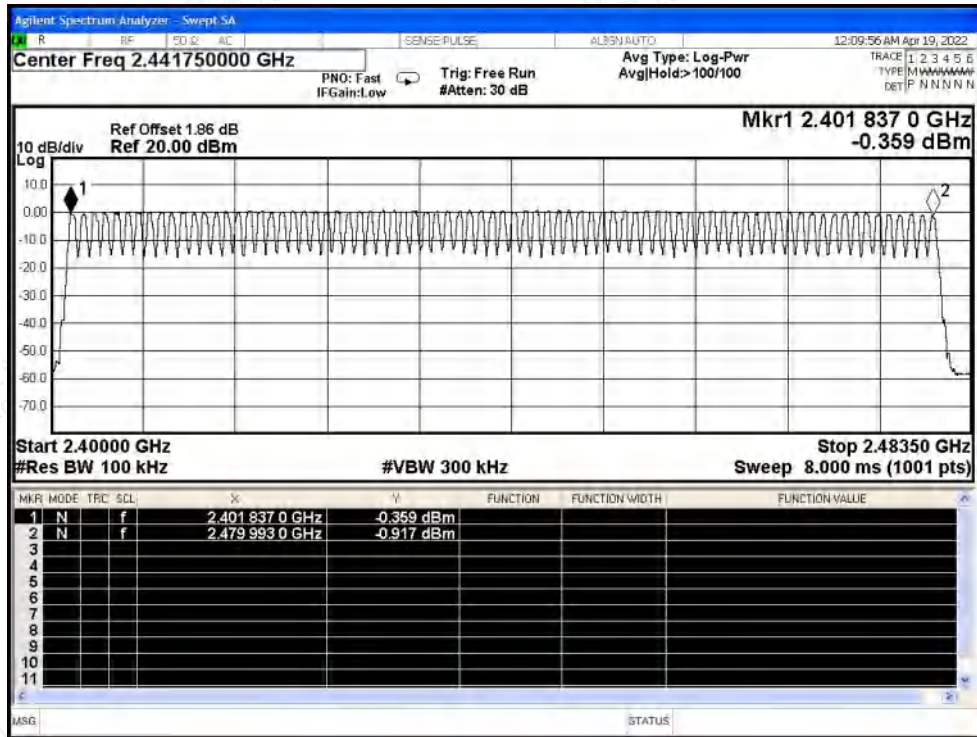


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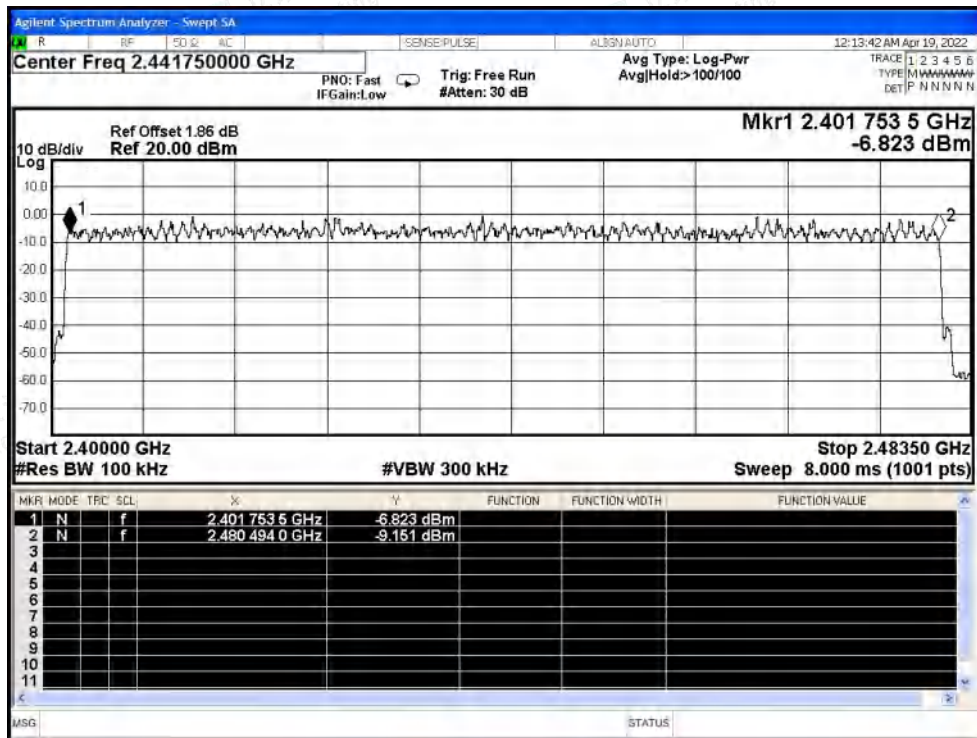


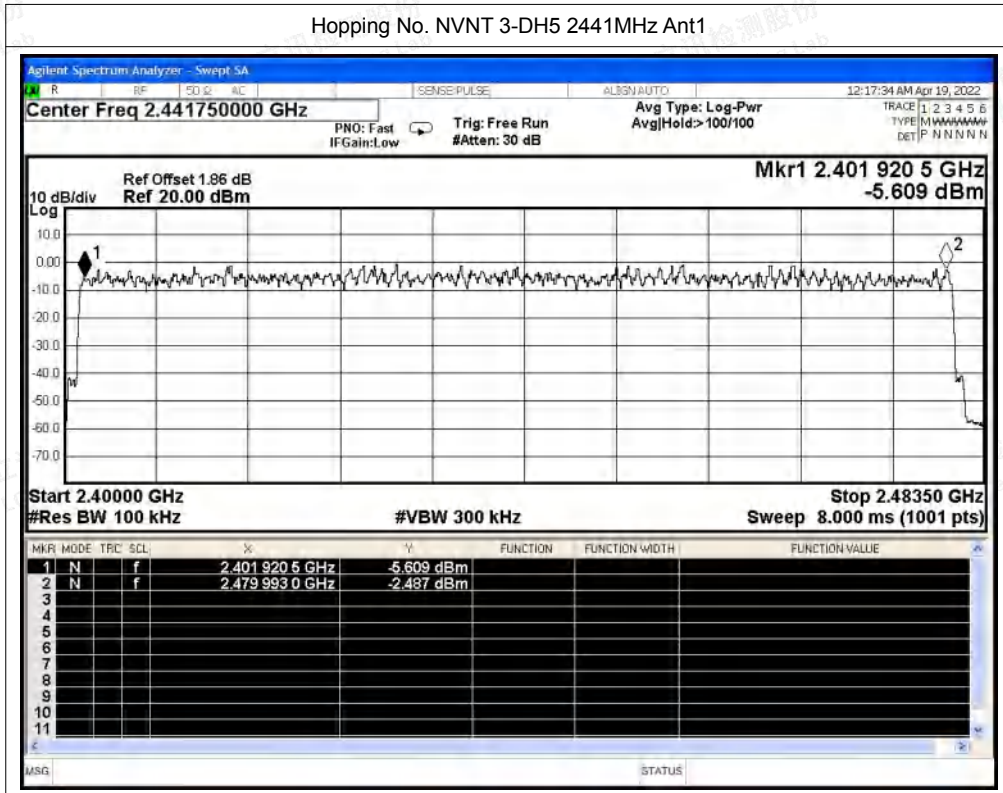
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz 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	-57.47	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.89	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.58	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.98	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.04	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.31	-20	Pass

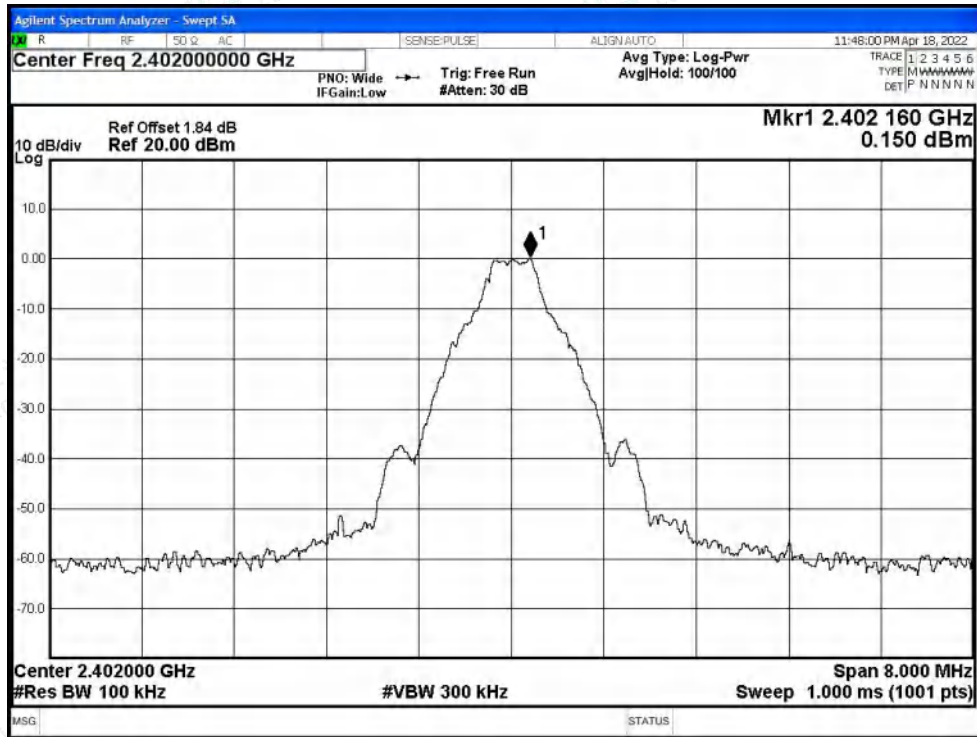


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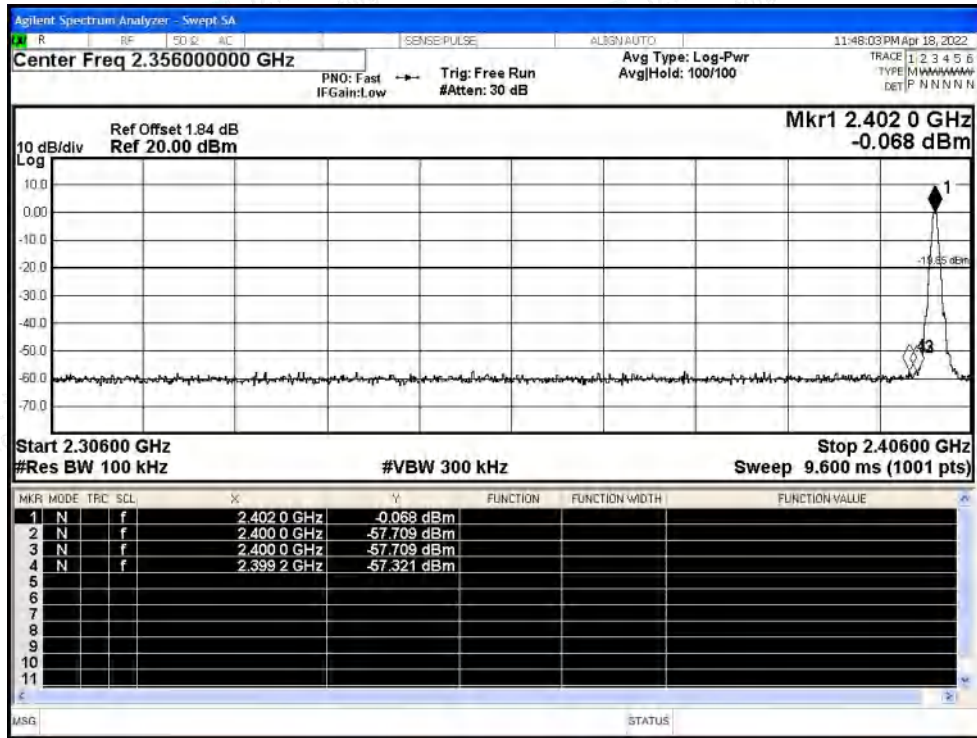


Test Graphs

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

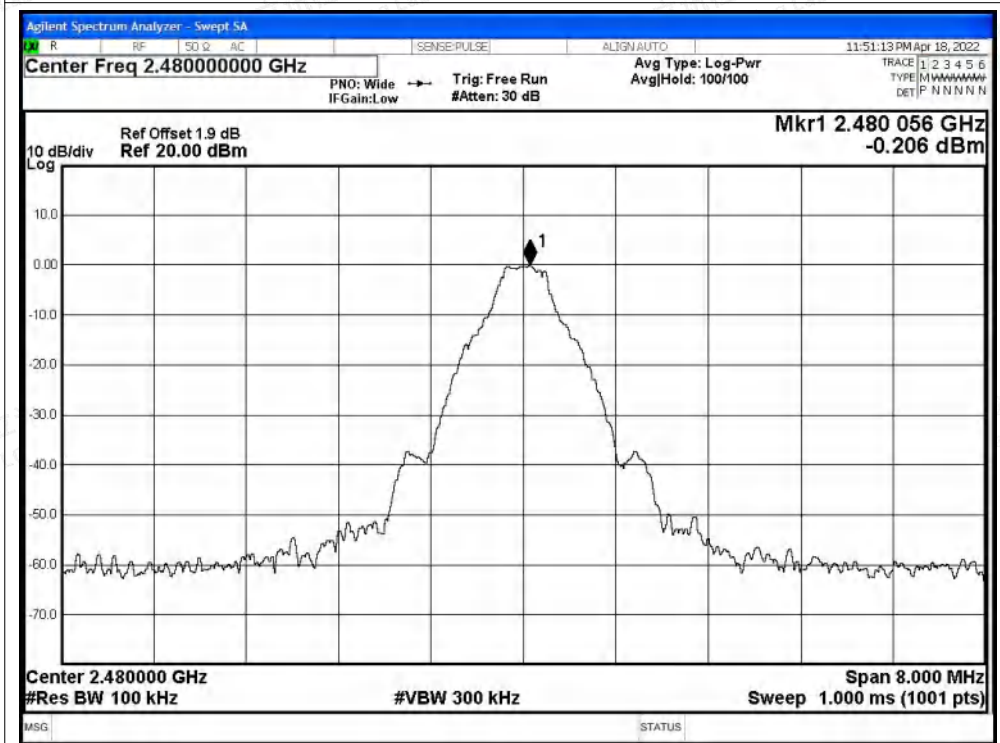


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

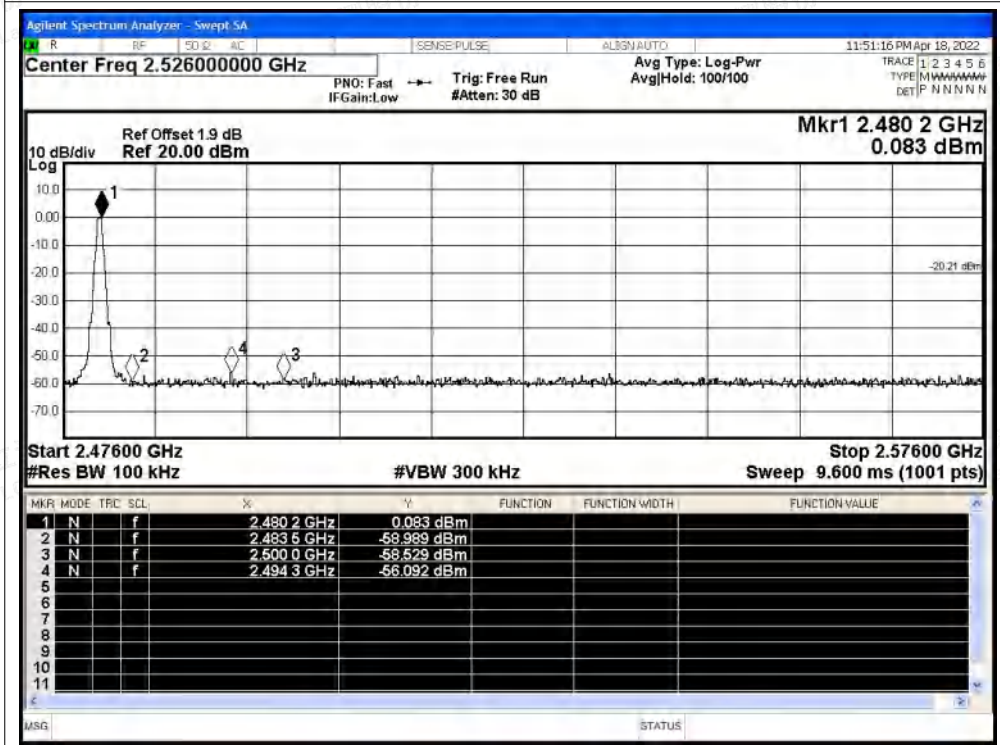




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

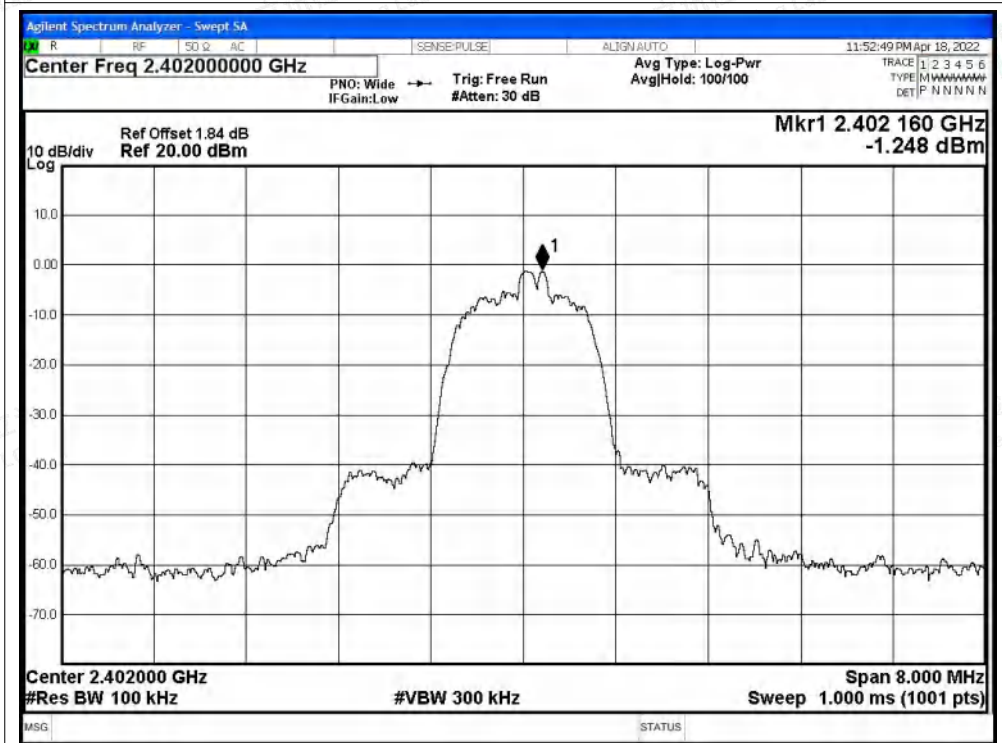


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

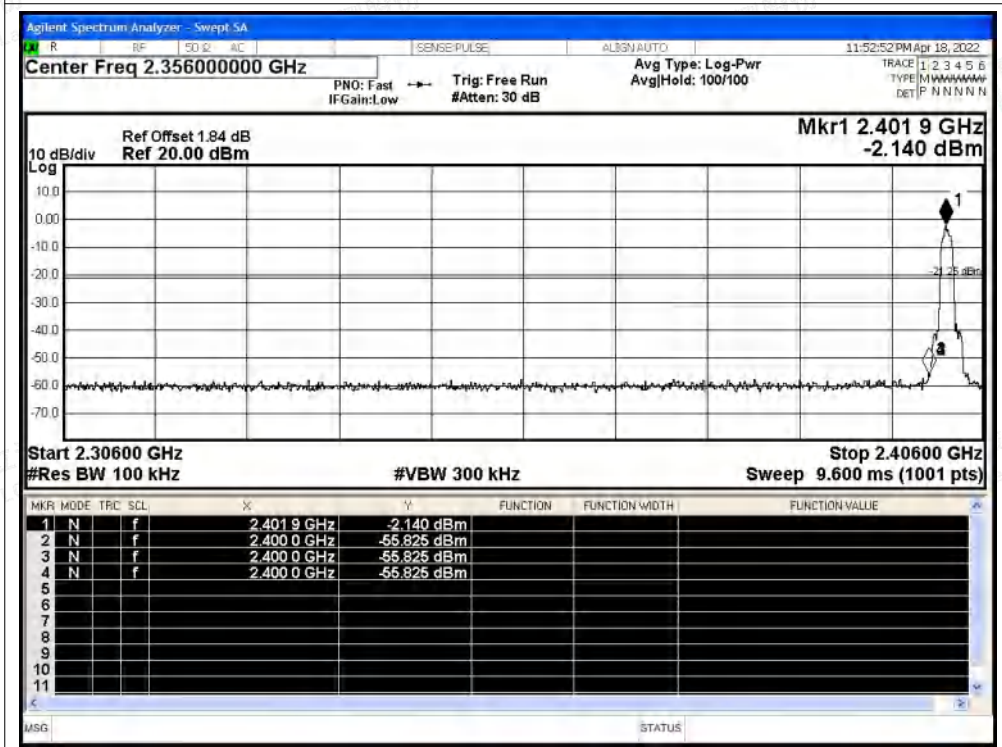




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

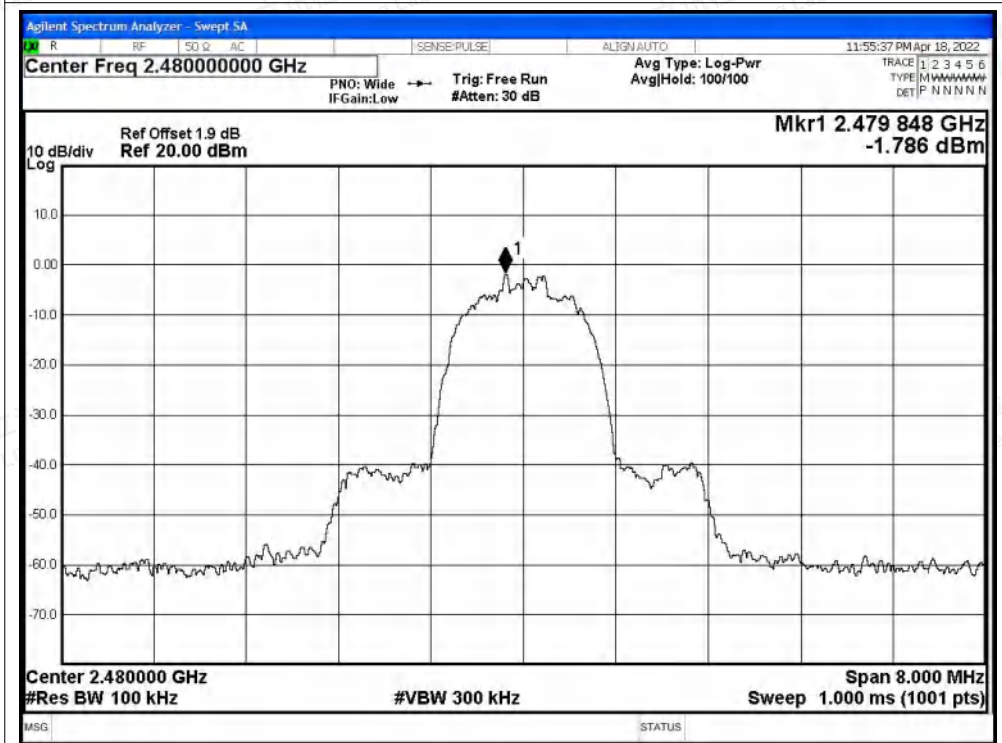


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

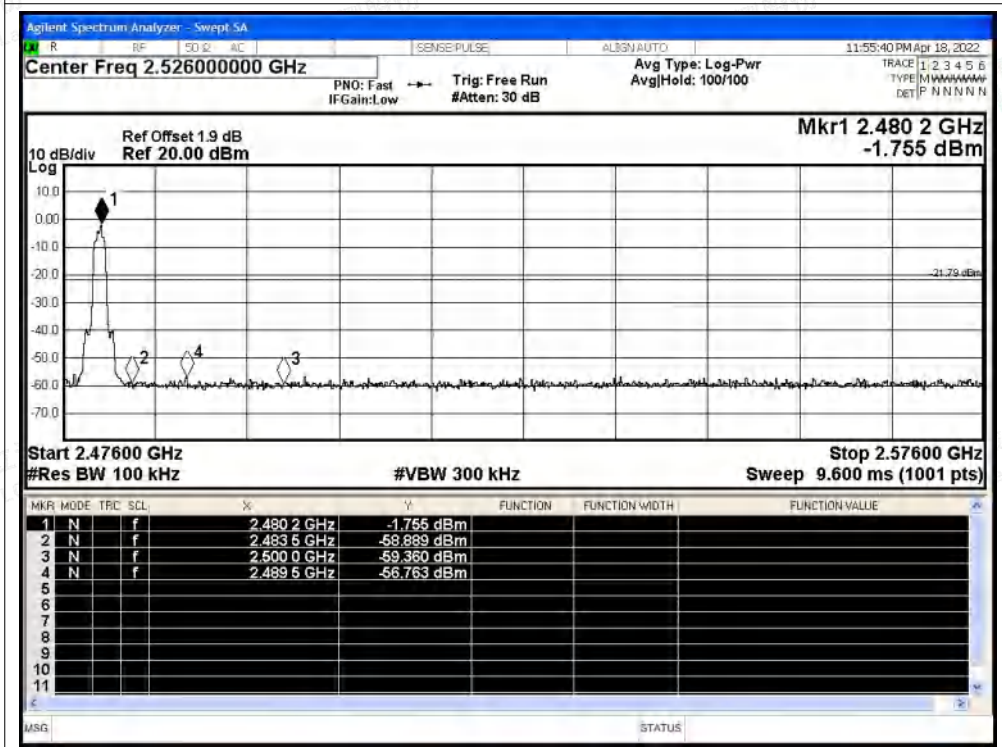




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

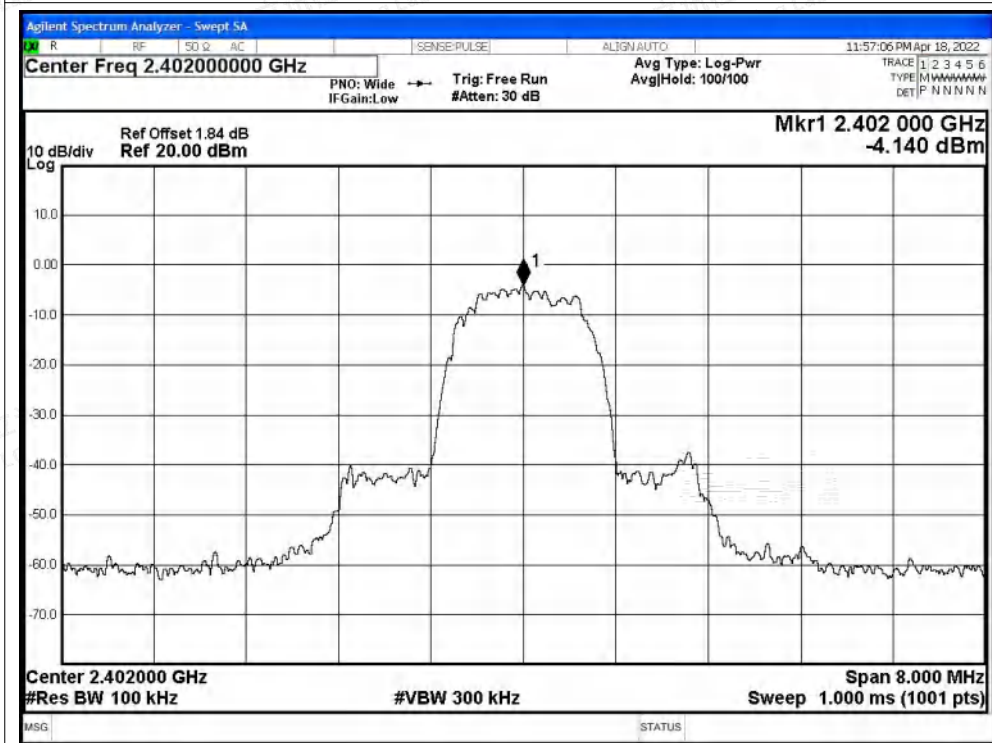


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

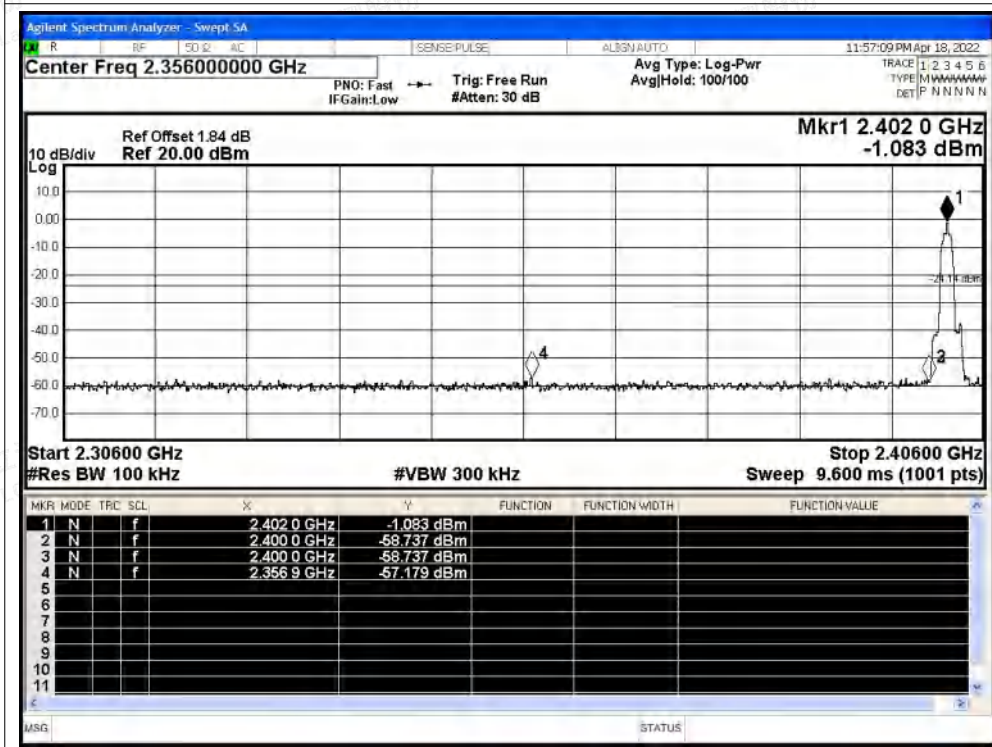




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

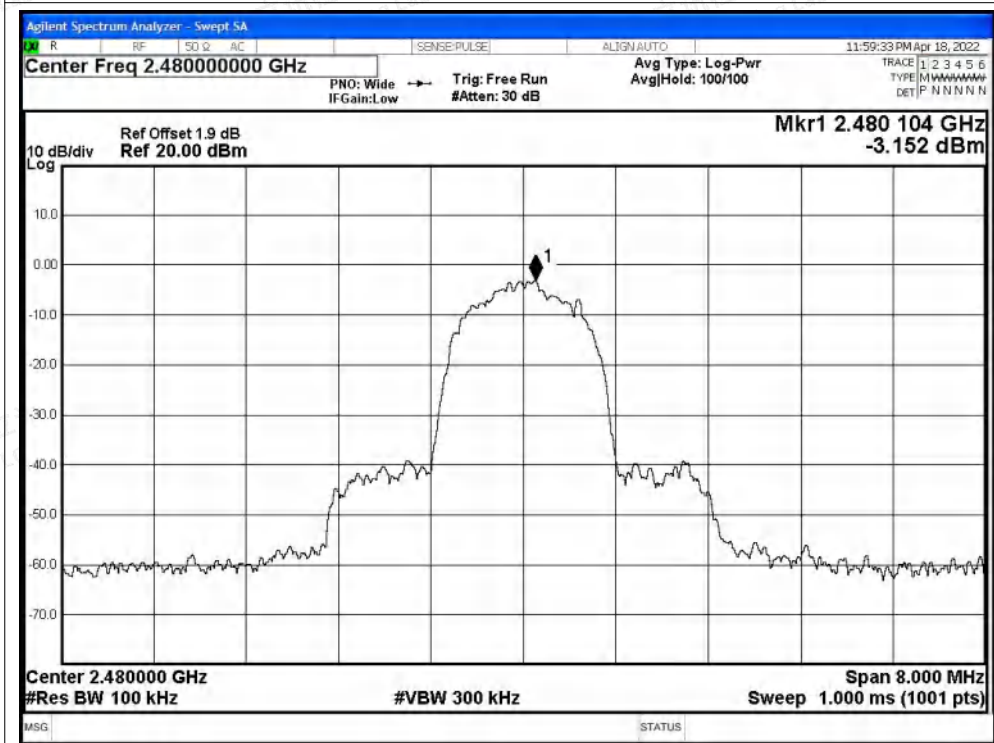


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

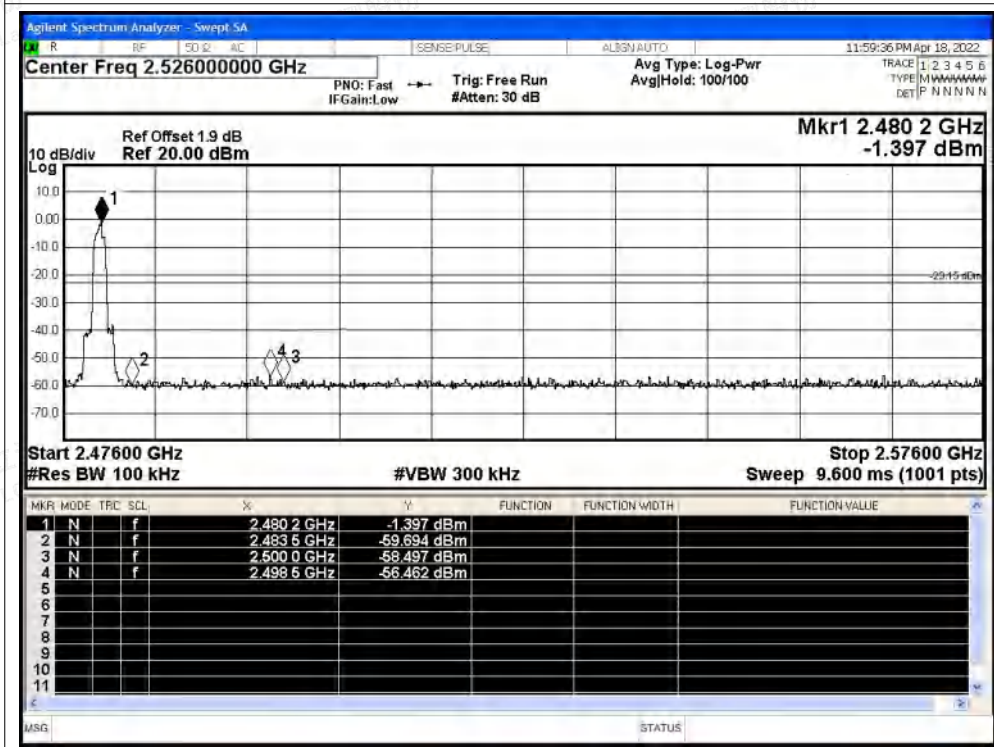




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-56.04	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.08	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.75	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.3	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.97	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.71	-20	Pass

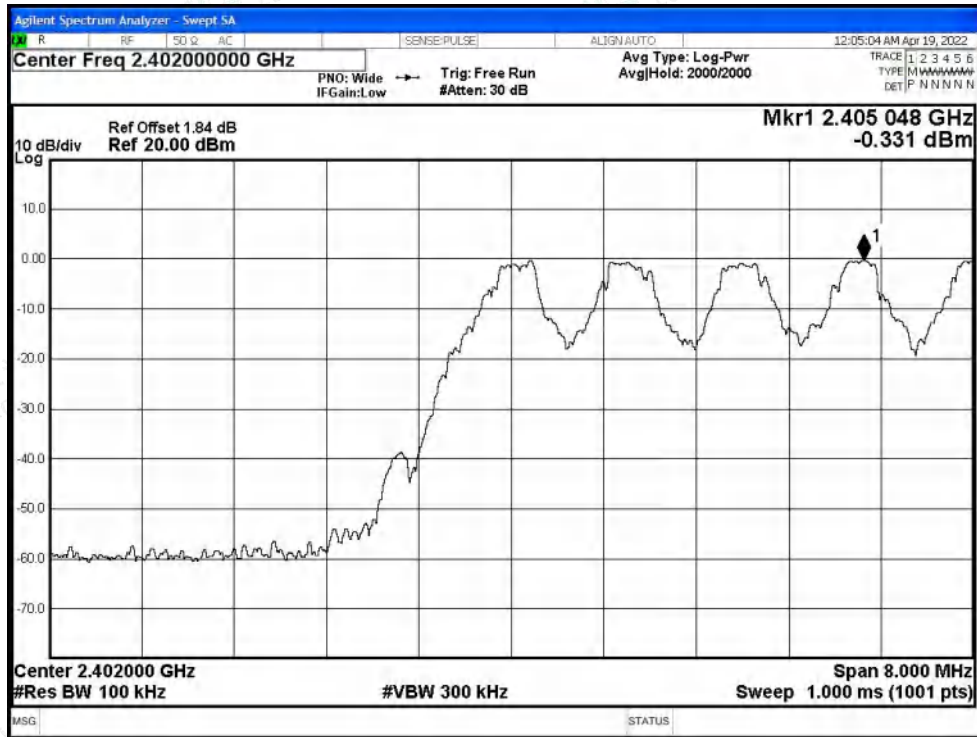


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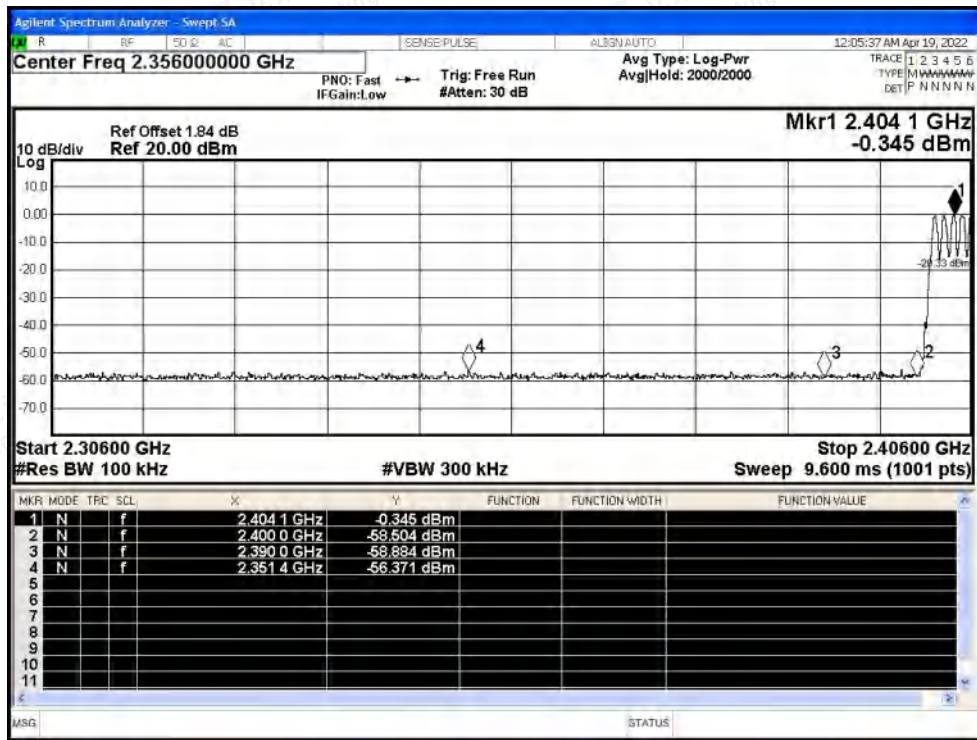


Test Graphs

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

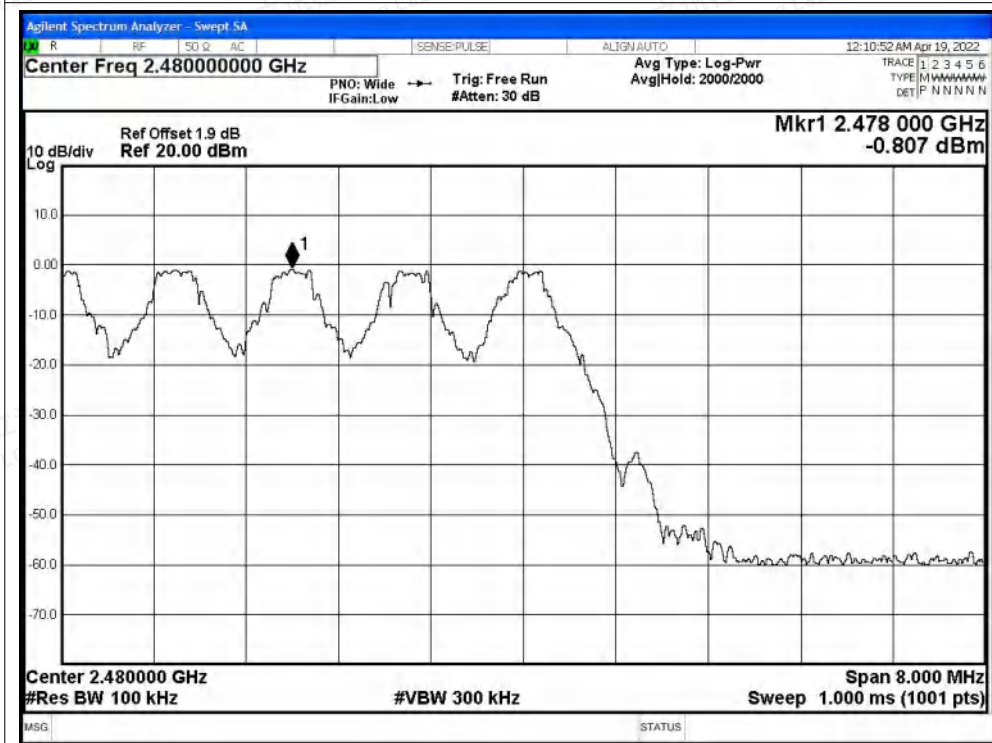


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

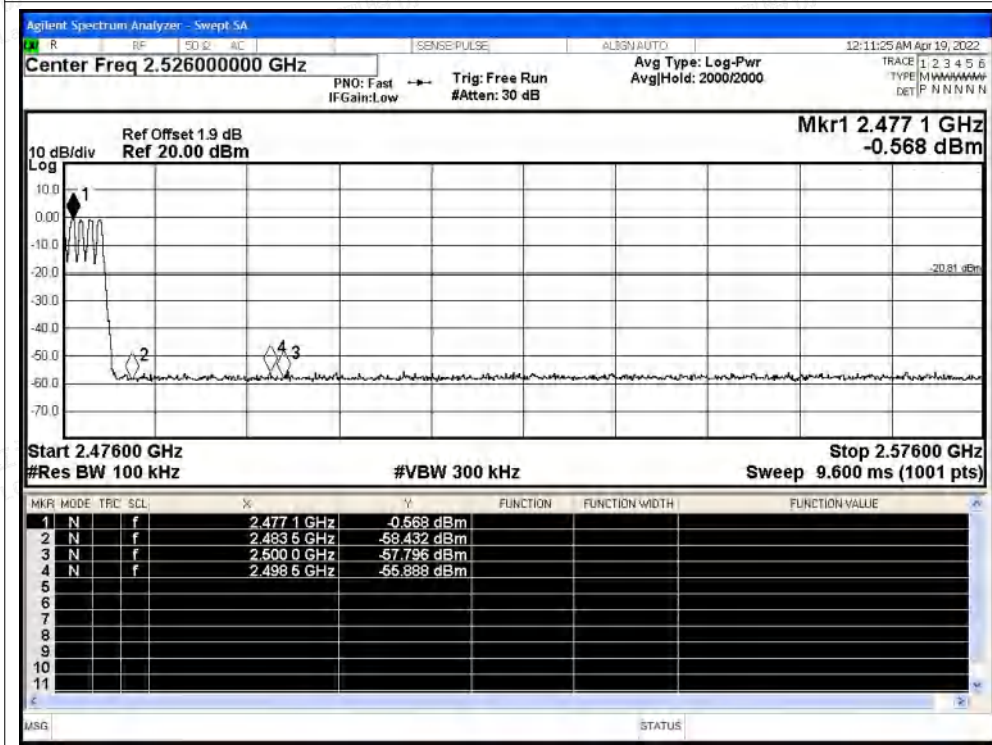




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

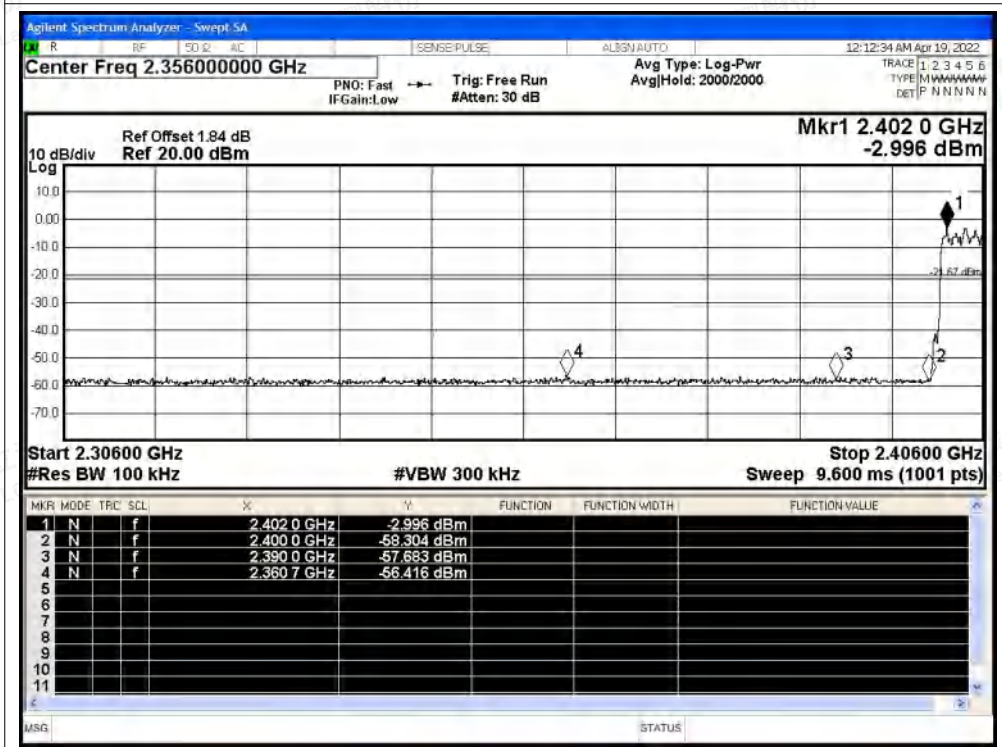




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

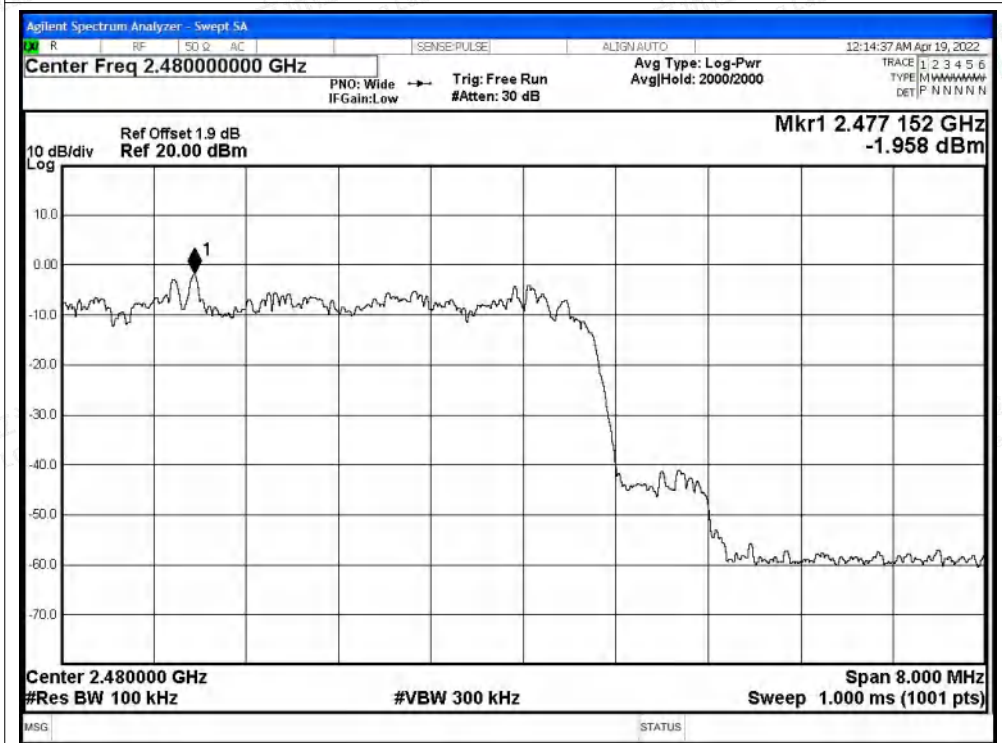


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

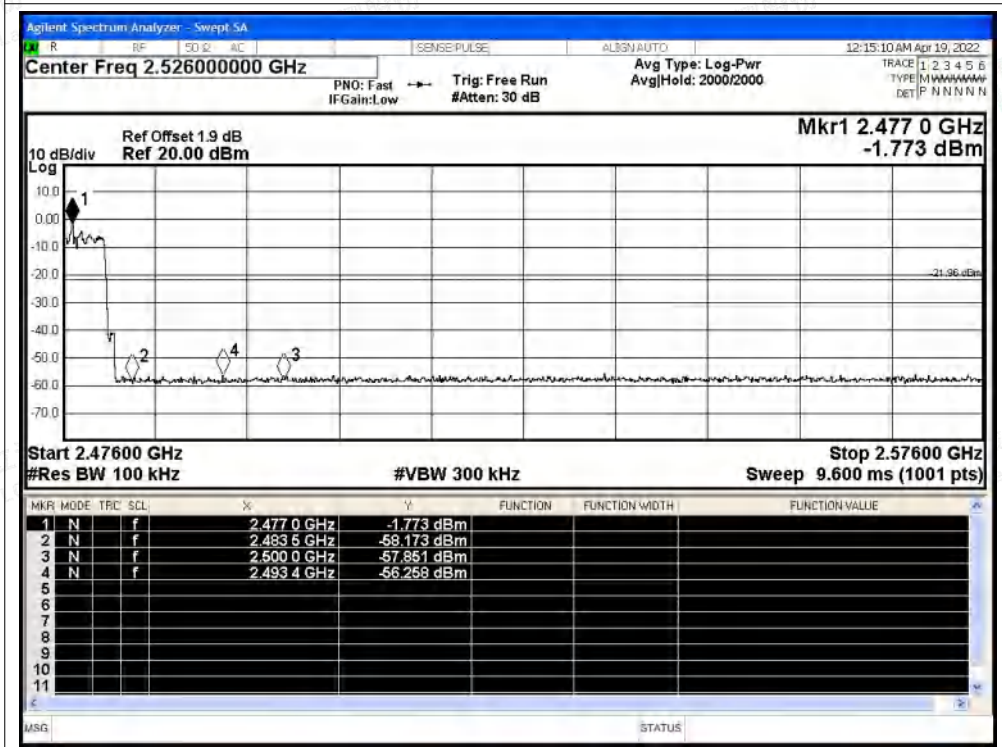




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

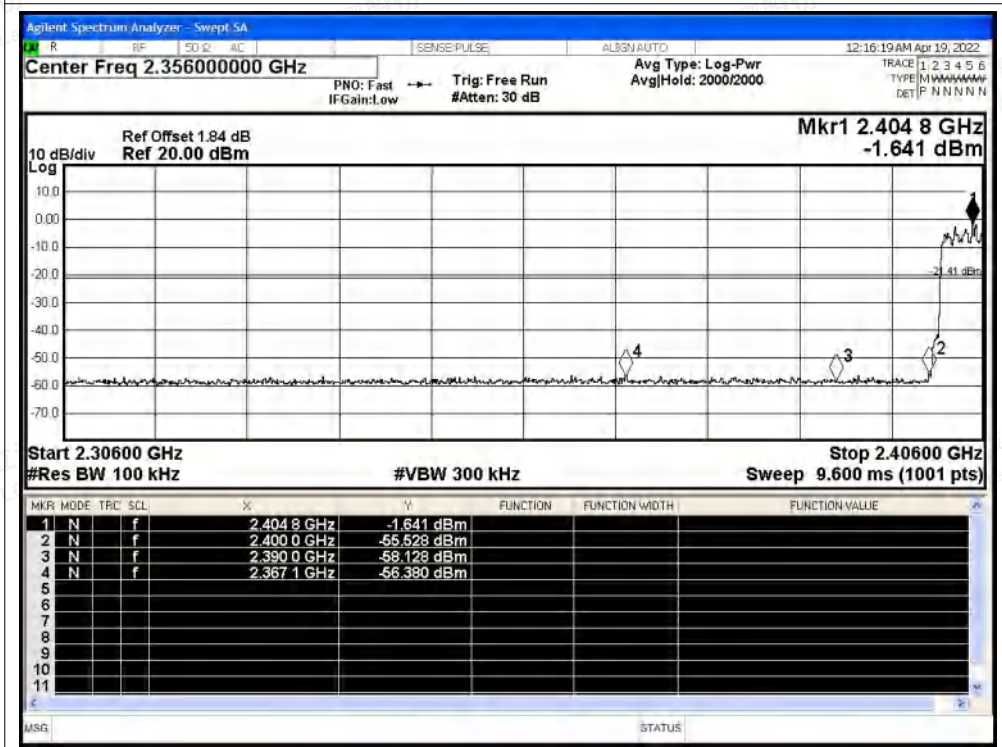




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

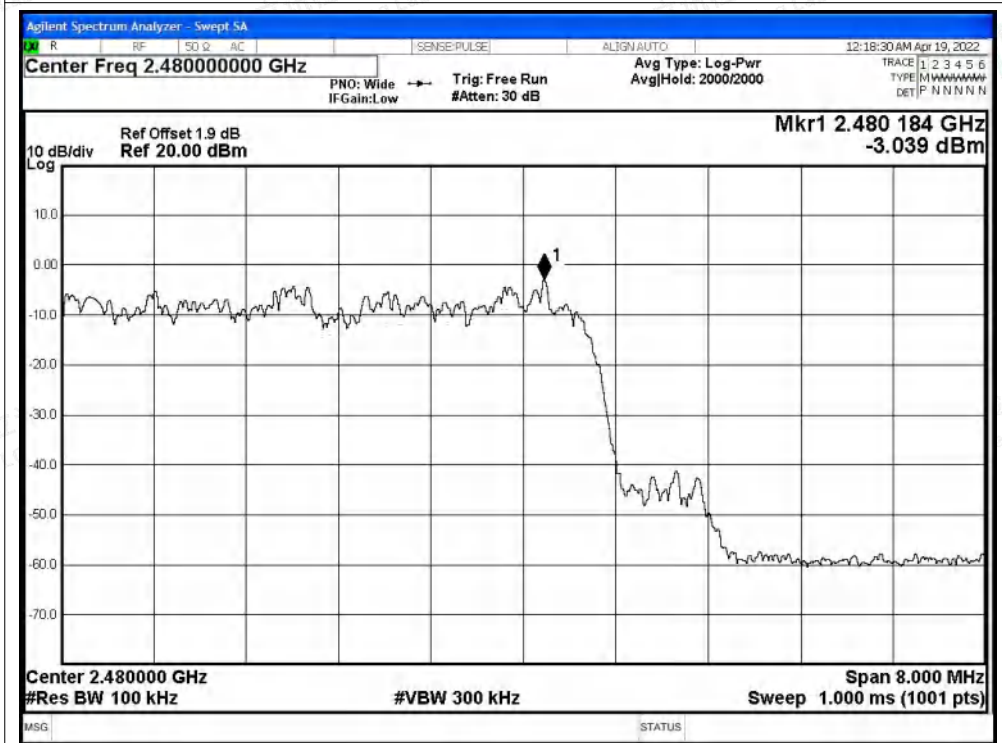


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

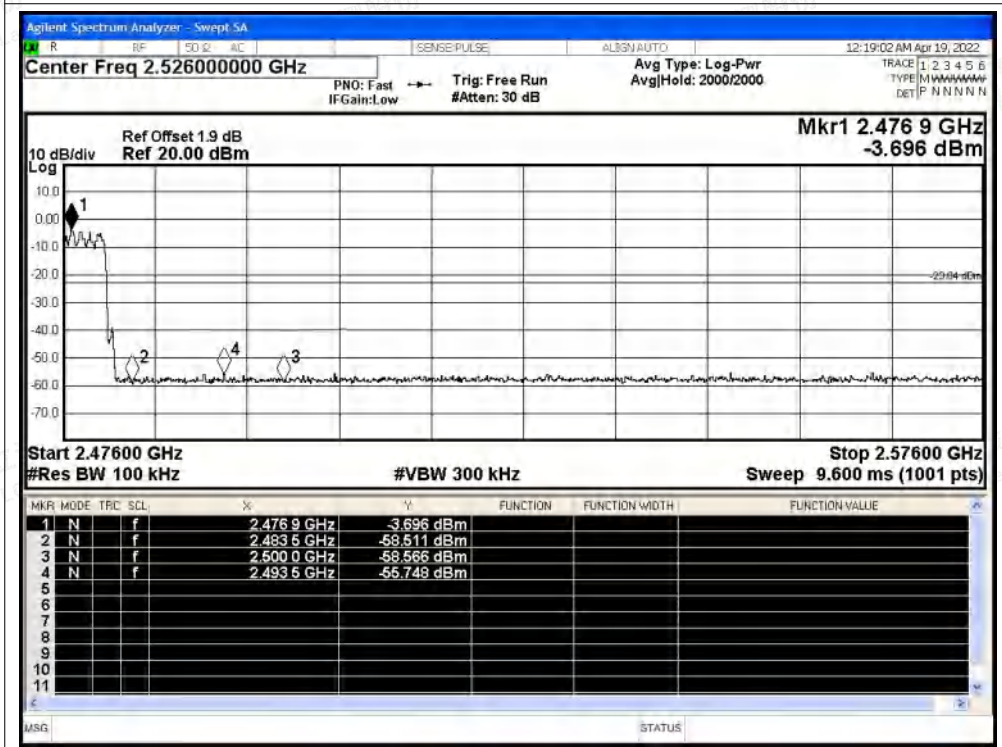




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.32	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.83	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.34	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.01	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.99	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.9	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.47	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.48	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.45	-20	Pass

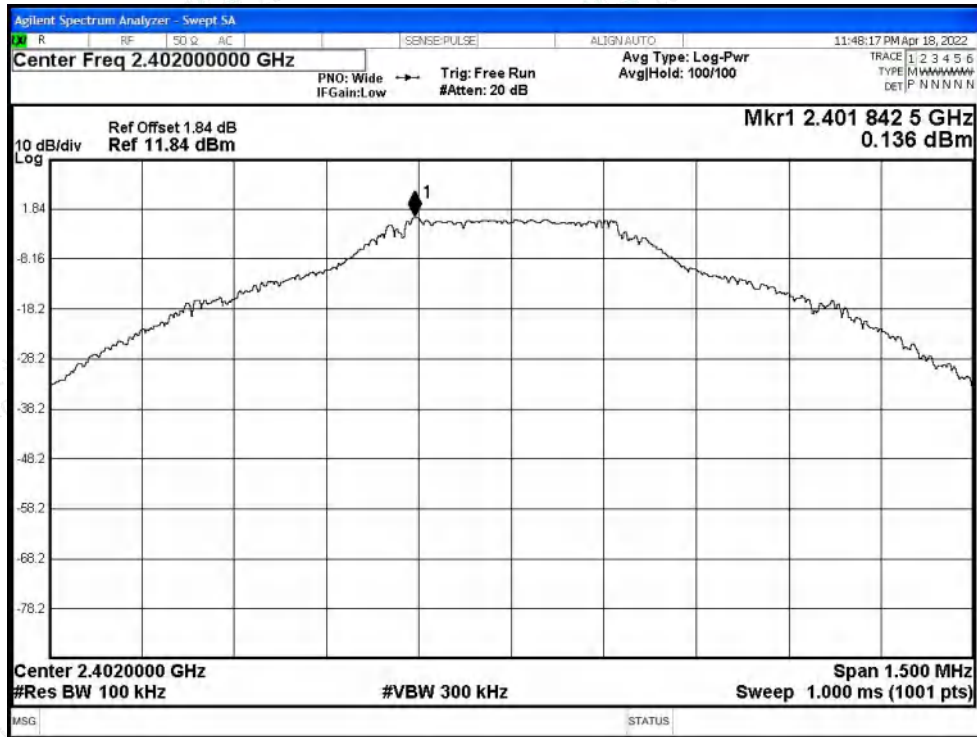


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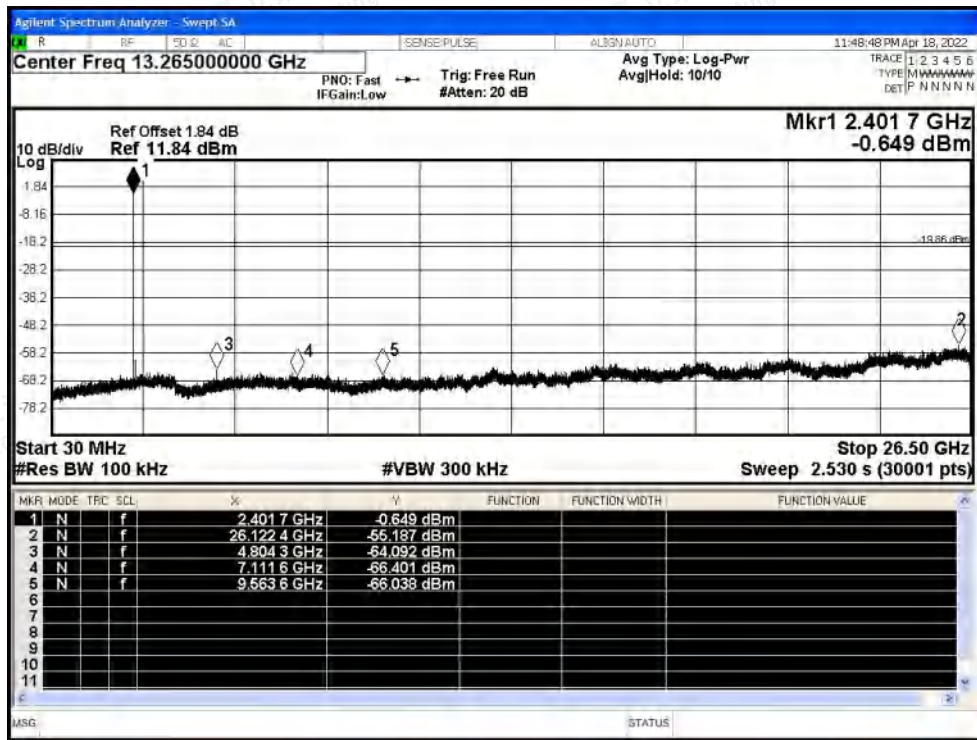


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

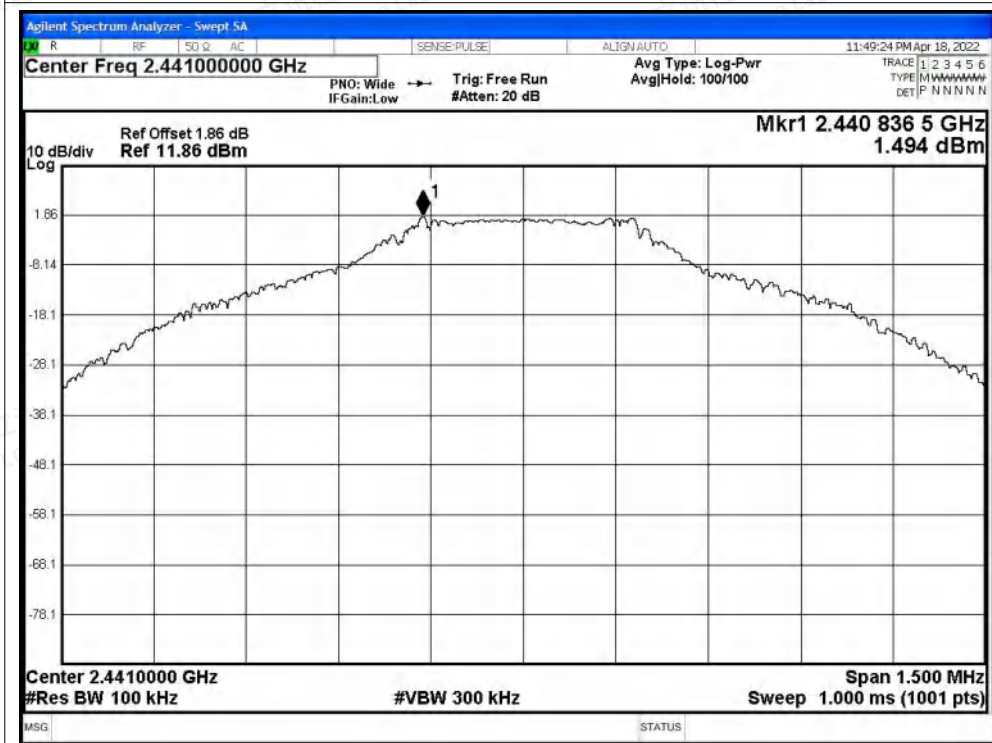


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

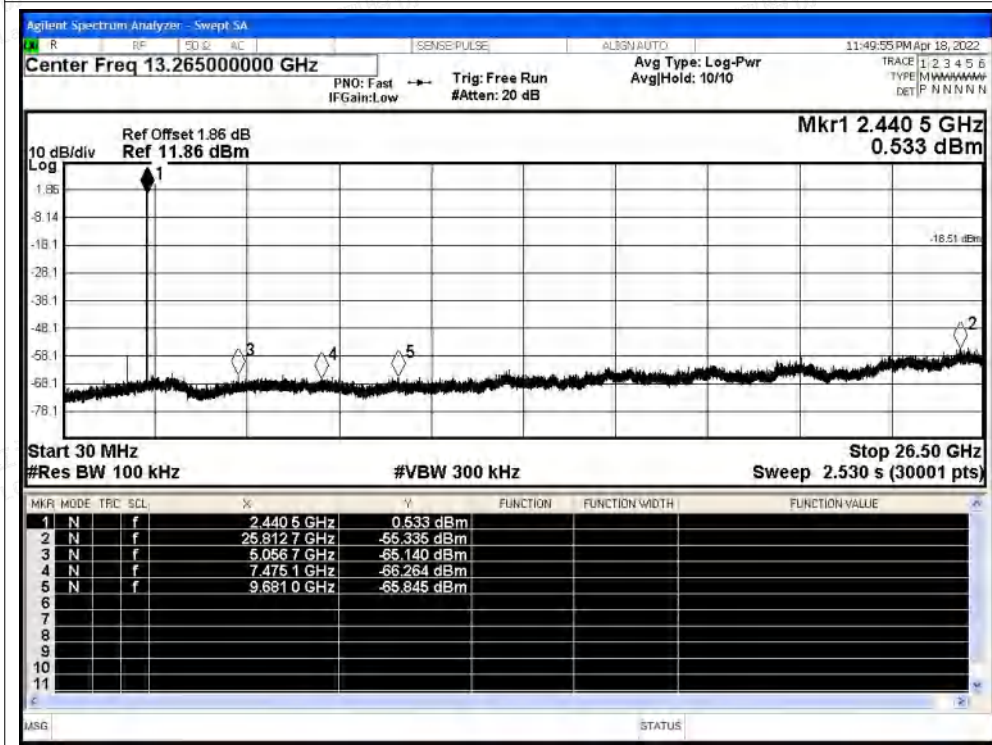




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

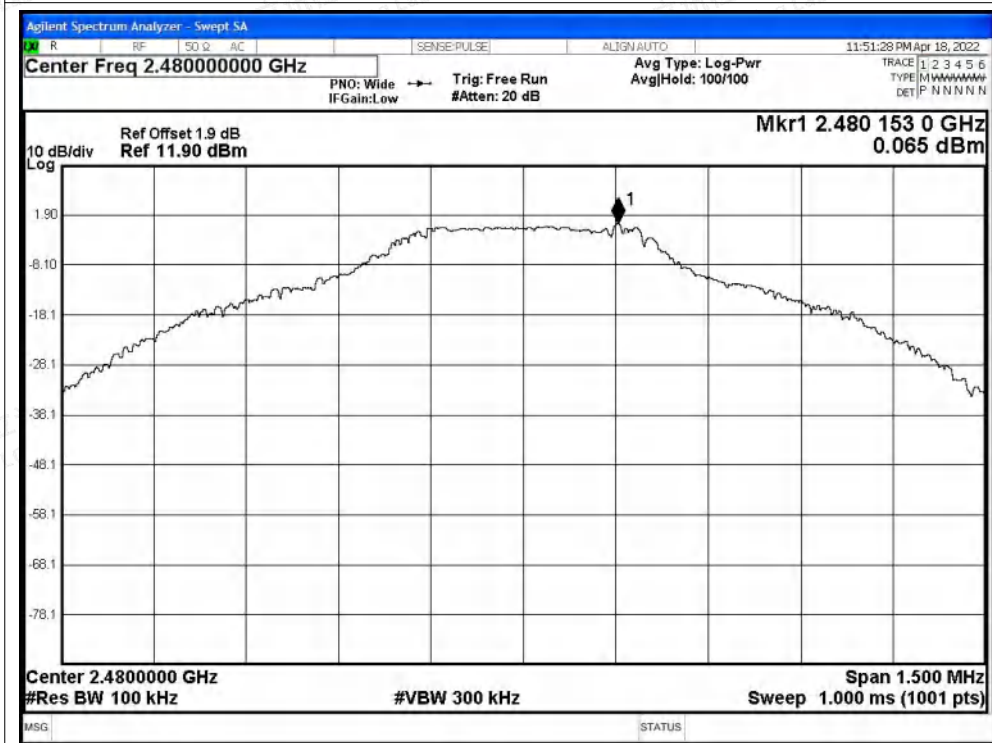


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

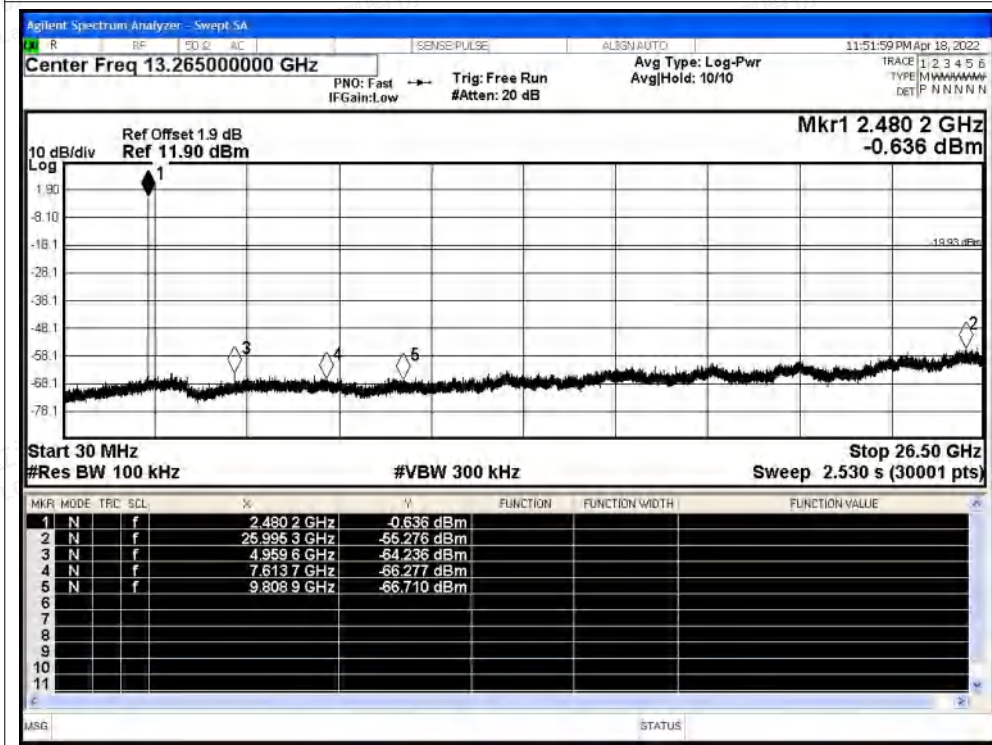




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

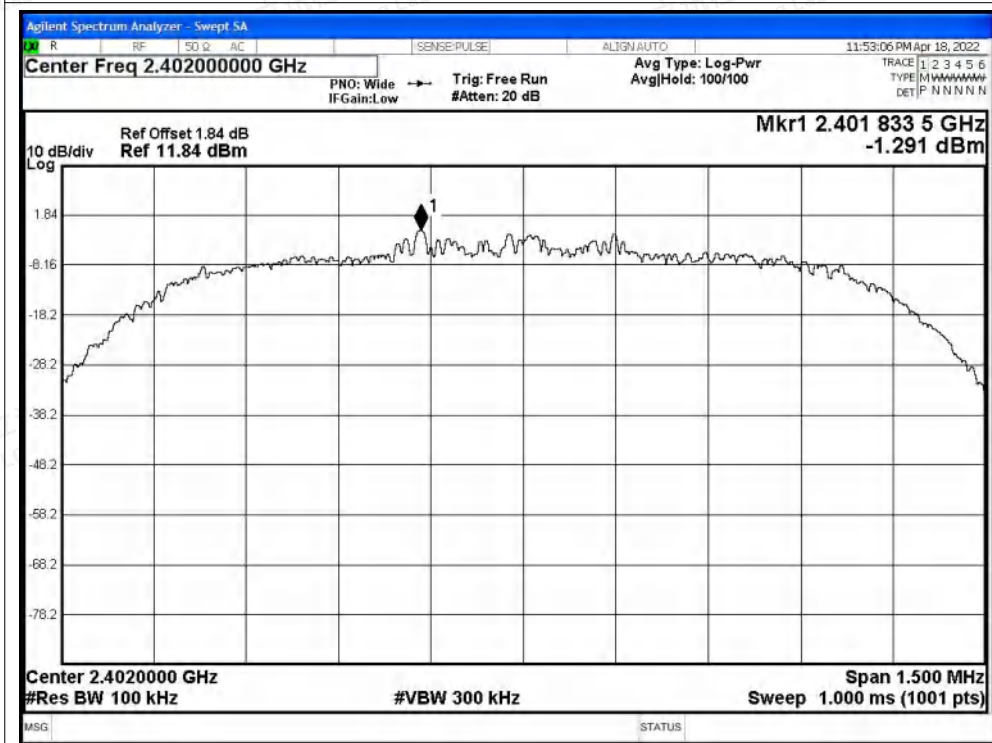


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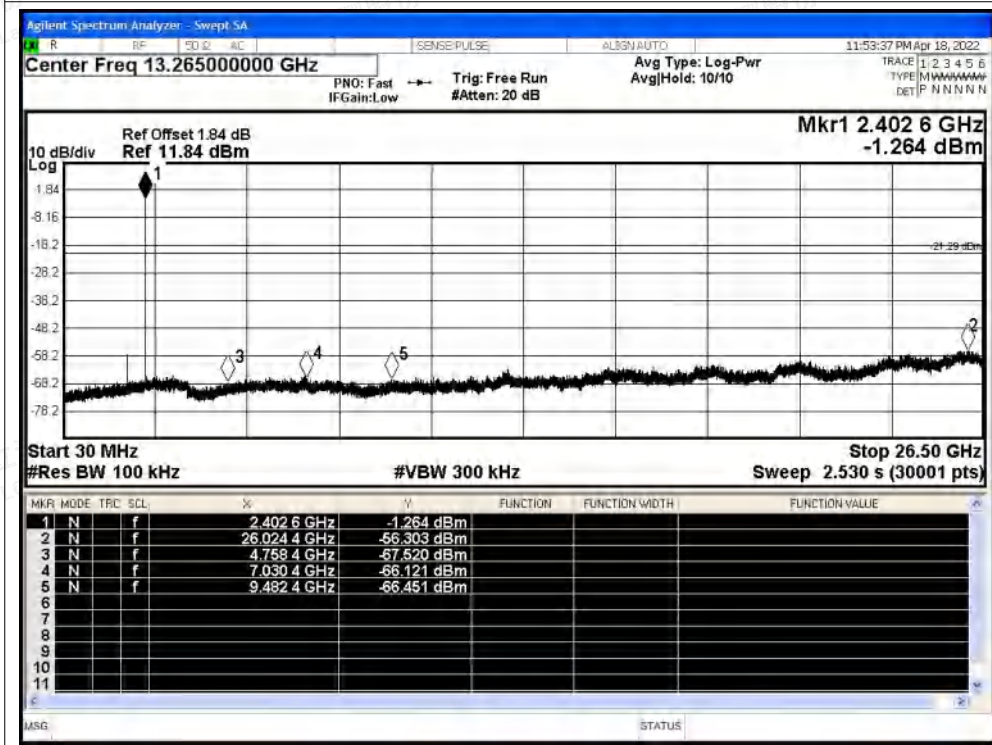




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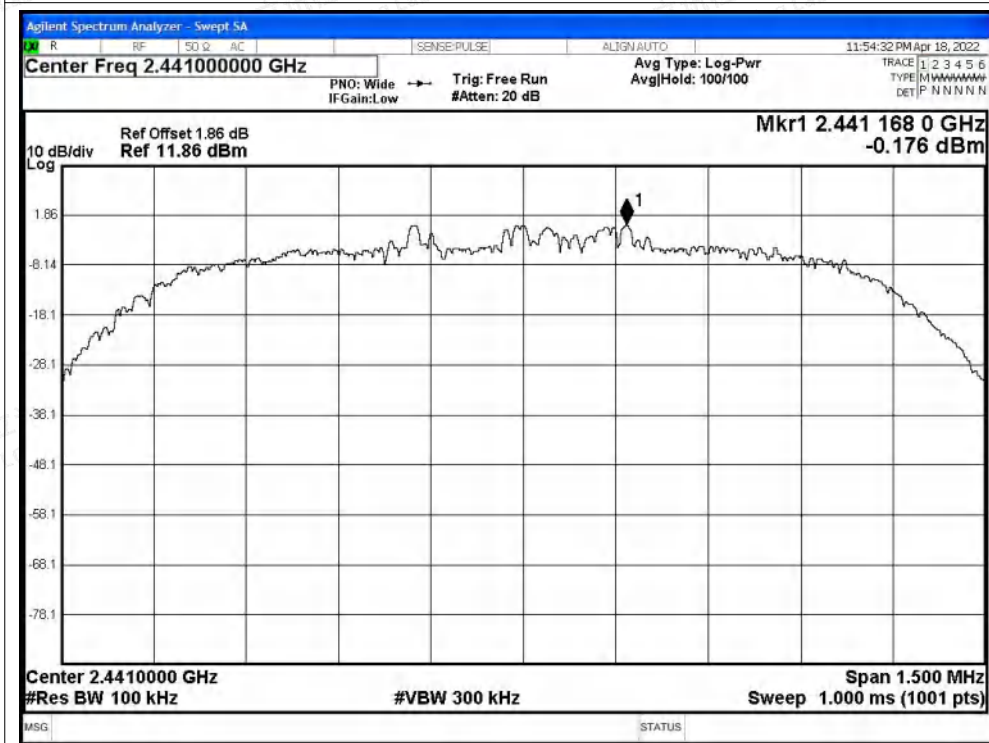


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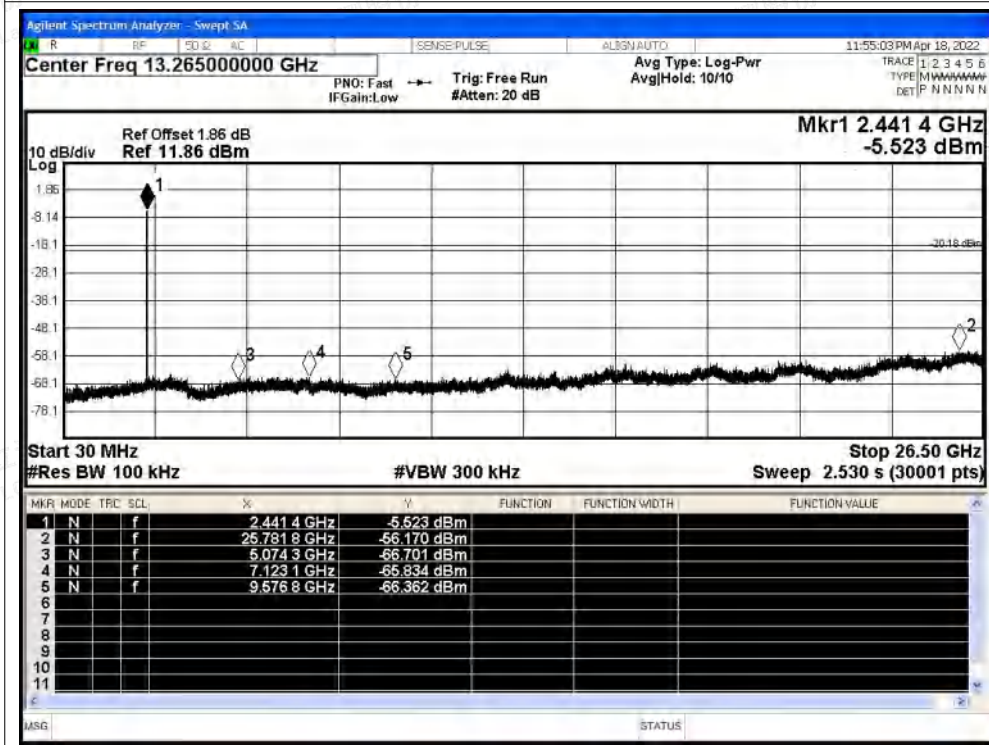




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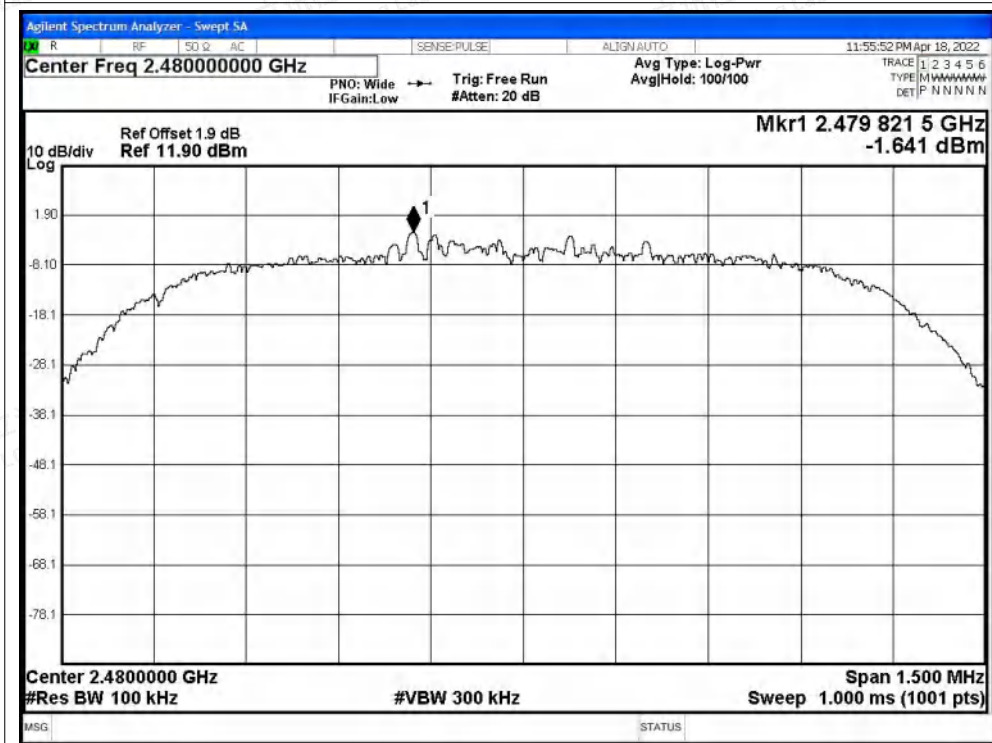


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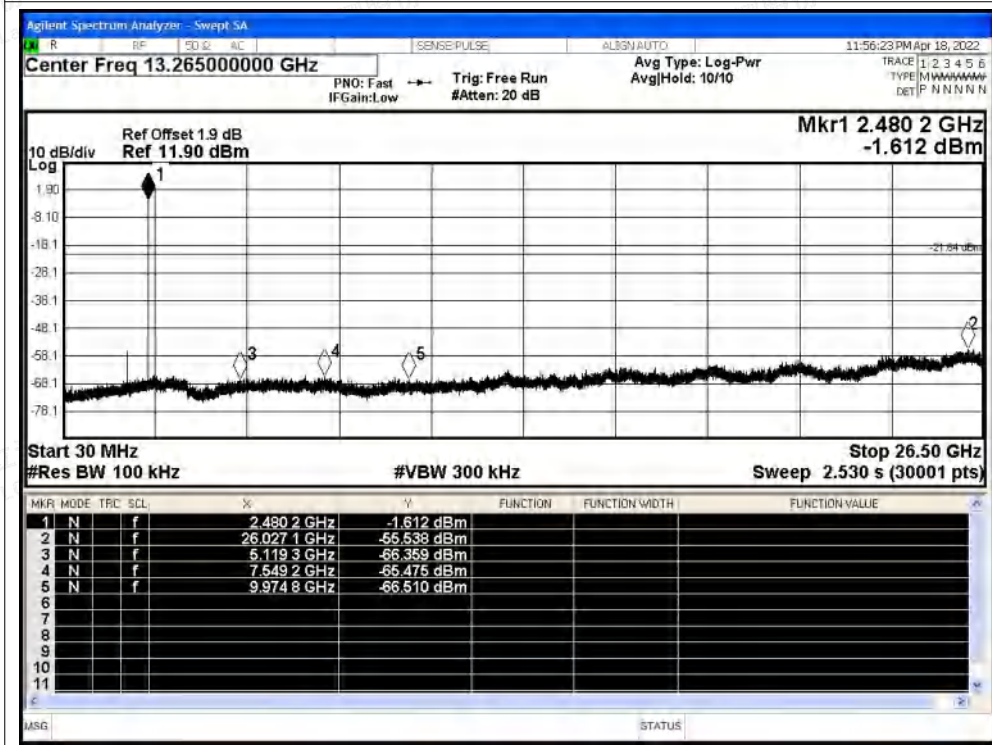




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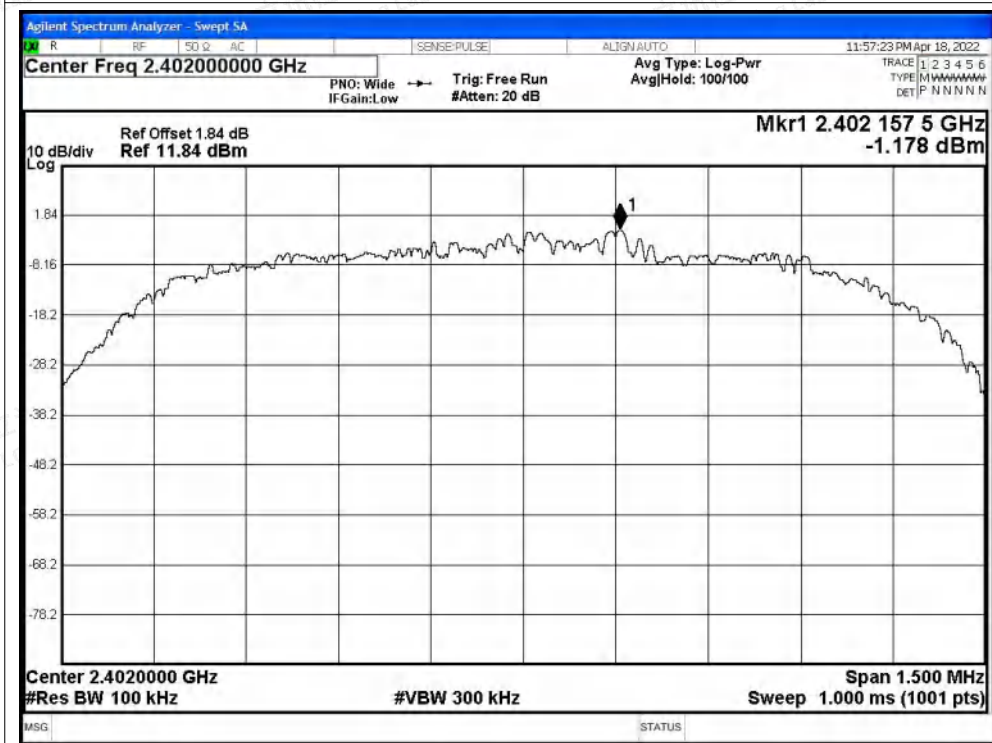


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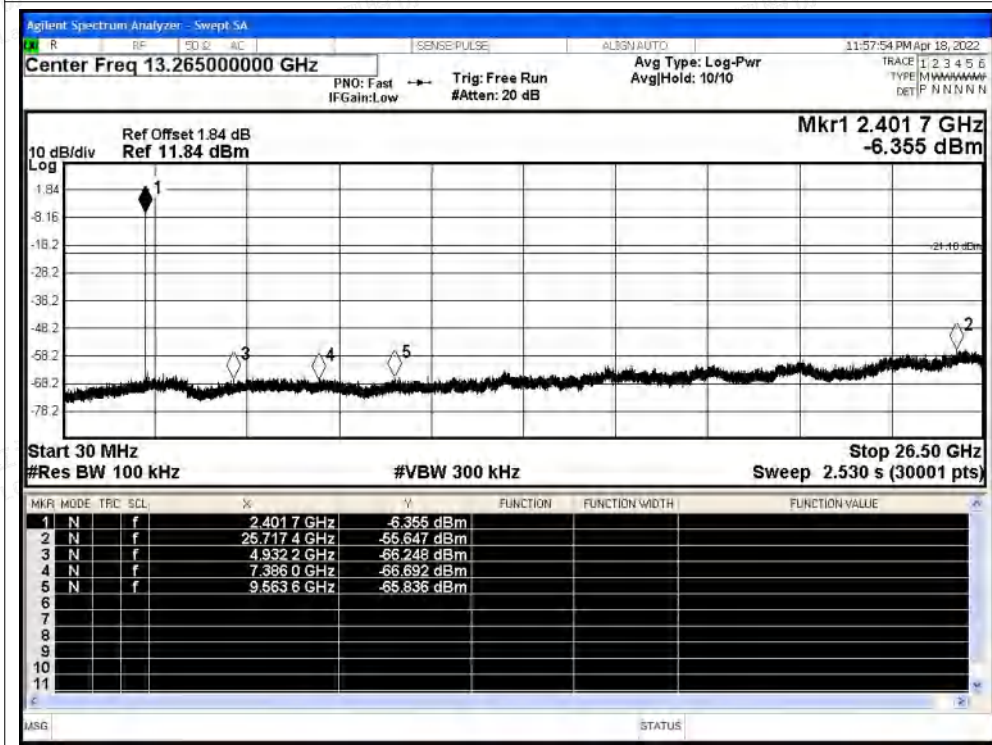




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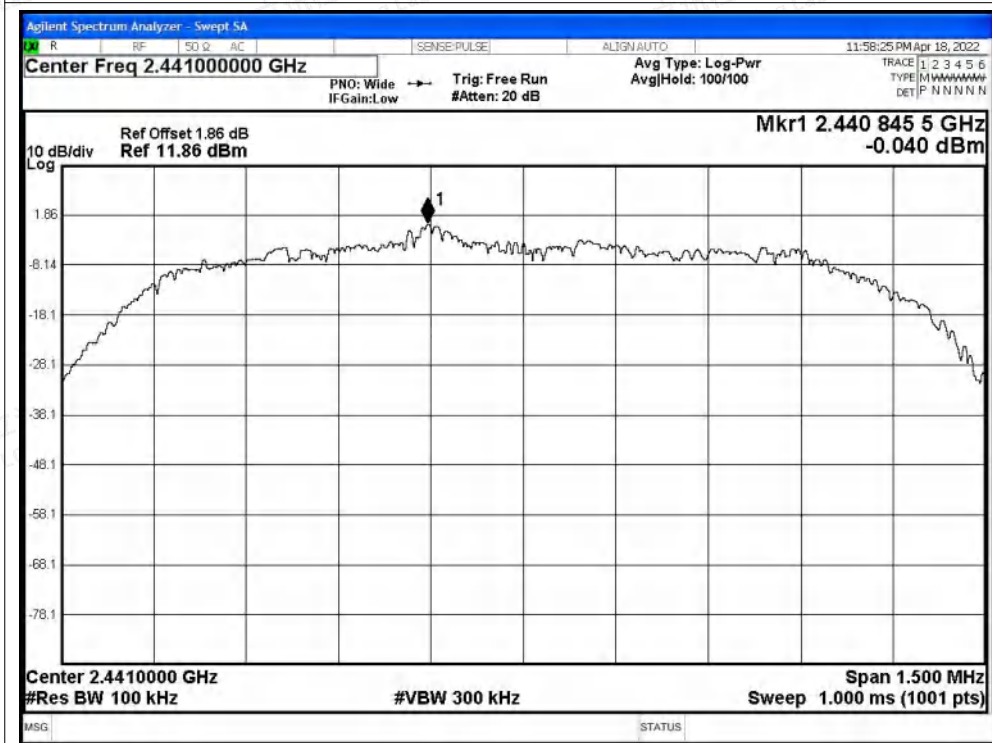


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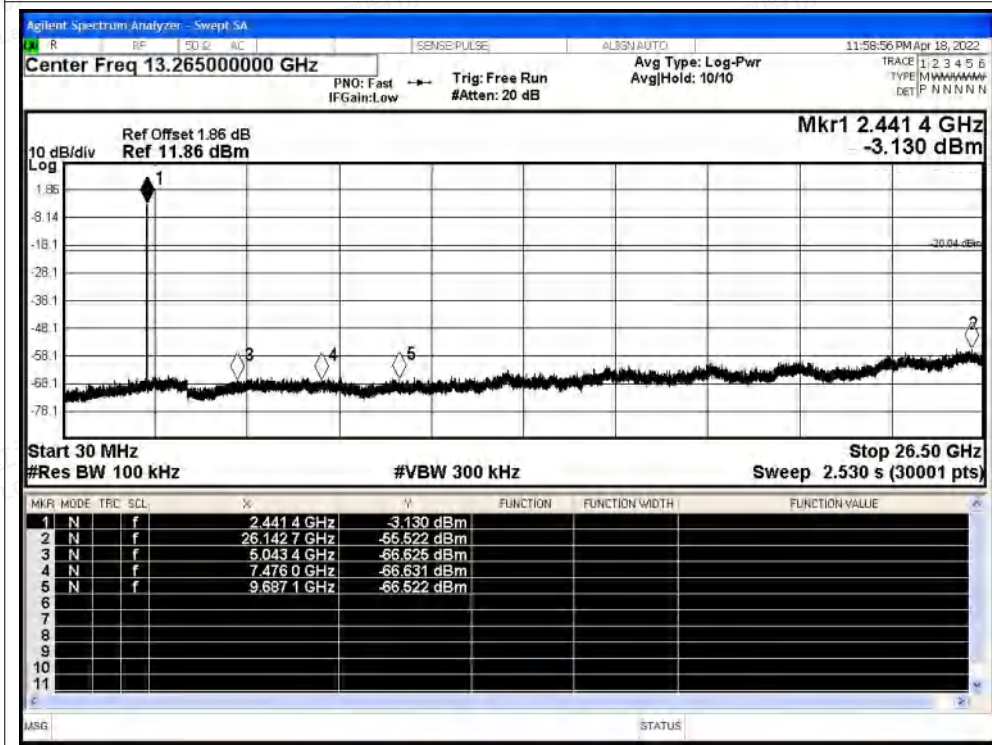




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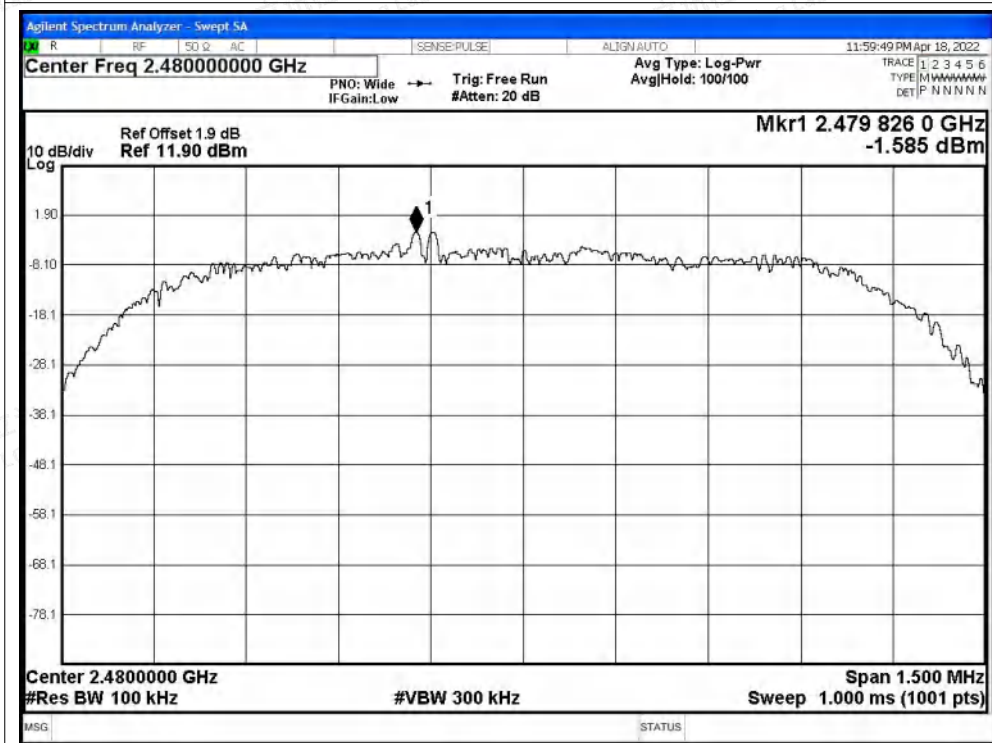


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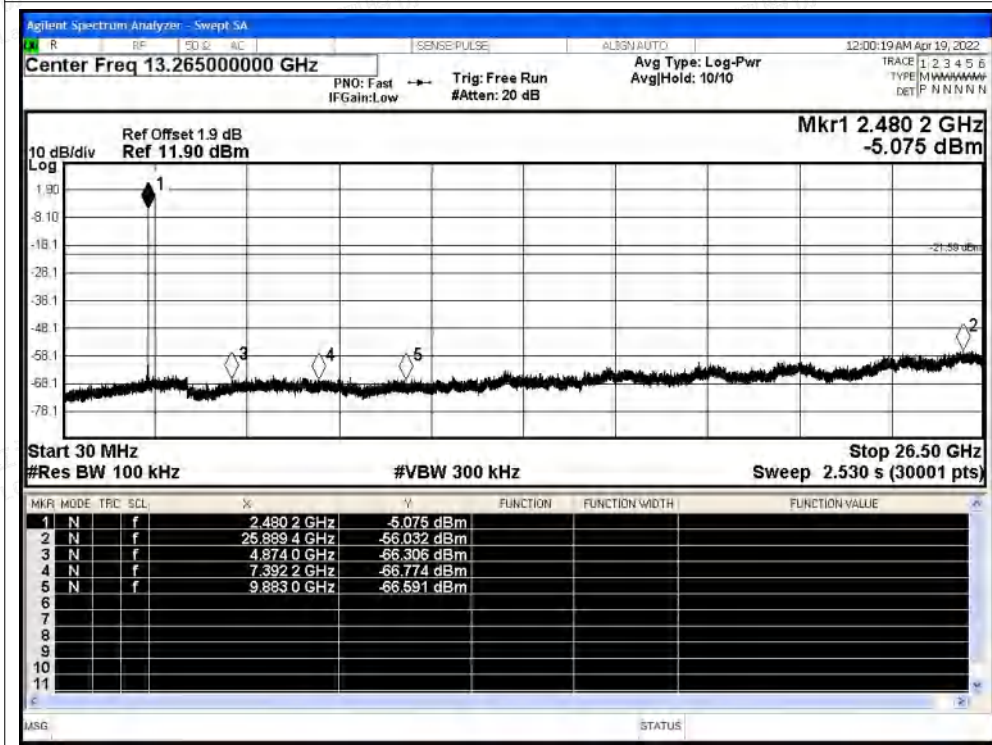




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-51.39	2	45.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.71	2	36.55	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.008	-46.79	2	50.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2371.248	-60.14	2	37.12	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.96	2	46.3	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.47	2	36.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.82	2	46.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.87	2	37.39	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.776	-47.58	2	49.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.824	-59.71	2	37.55	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.76	2	46.5	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.04	2	37.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.25	2	47.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.64	2	36.62	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.552	-48.11	2	49.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.04	-60.22	2	37.04	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.26	2	48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.27	2	36.99	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	2	46.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.69	2	37.57	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.376	-47.39	2	49.87	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.752	-59.55	2	37.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.8	2	46.46	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.95	2	37.31	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.78	2	46.48	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.55	2	36.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2318.64	-47.72	2	49.54	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2381.616	-60.22	2	37.04	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.4	2	46.86	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.47	2	36.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.89	2	46.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.61	2	37.65	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2495.128	-45.34	2	51.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.92	-59.45	2	37.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.54	2	46.72	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.08	2	37.18	Average	54	Pass

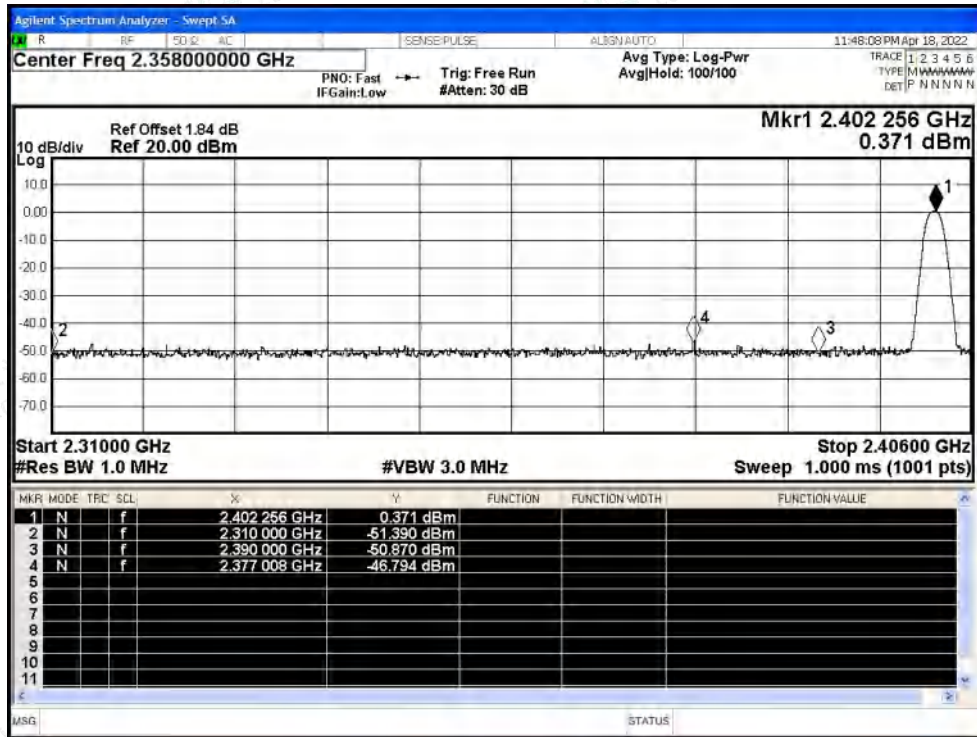


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 Scan code to check authenticity

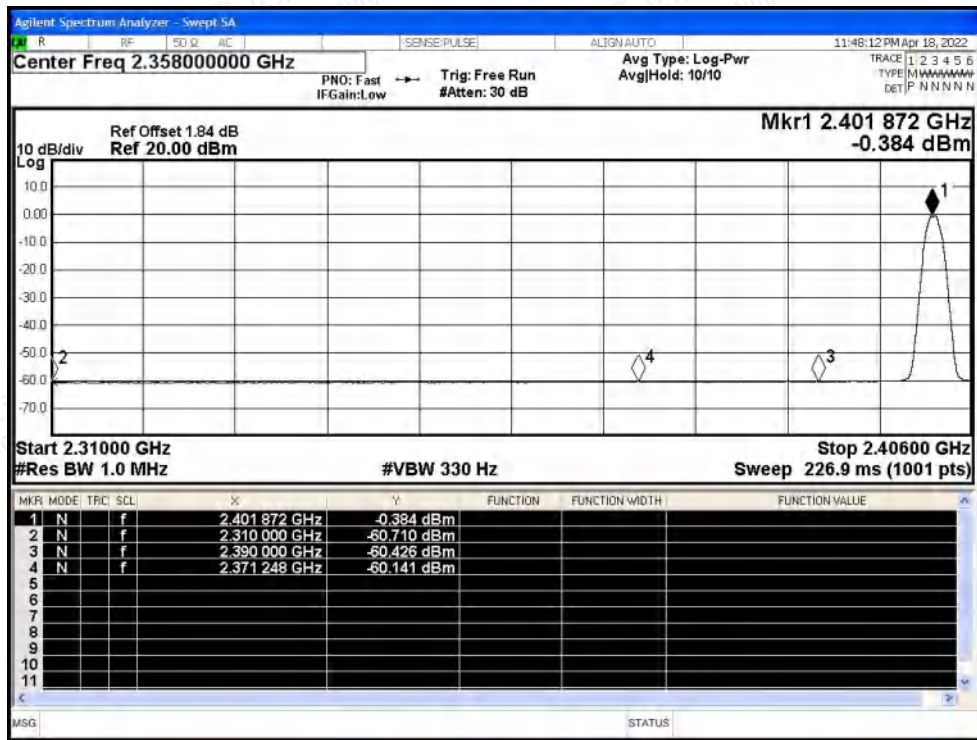


Test Graphs

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

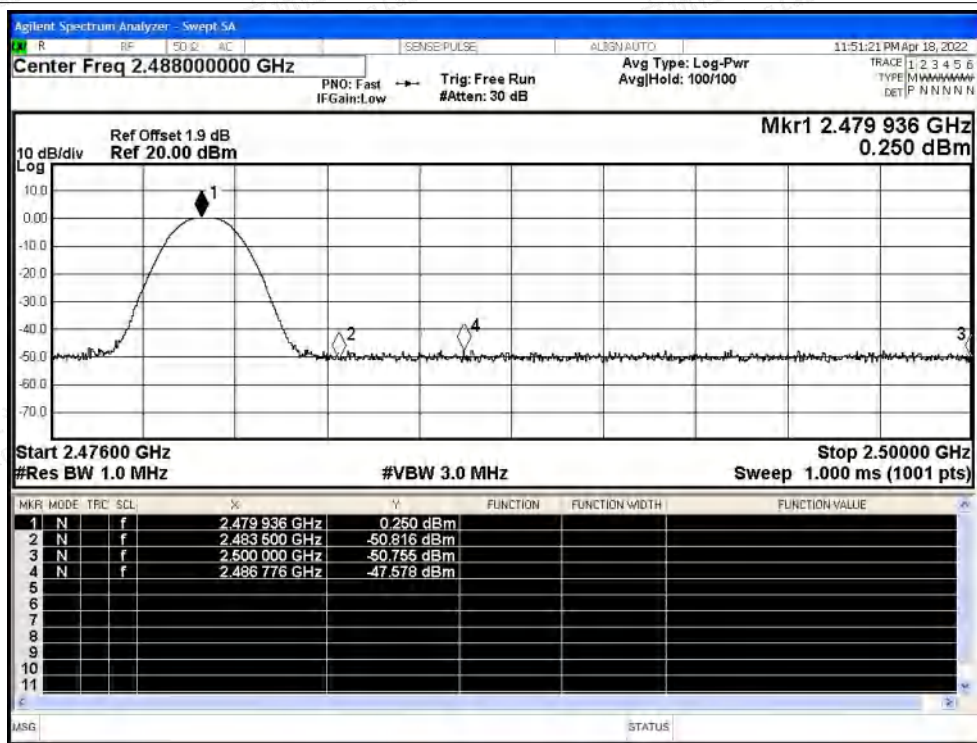


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

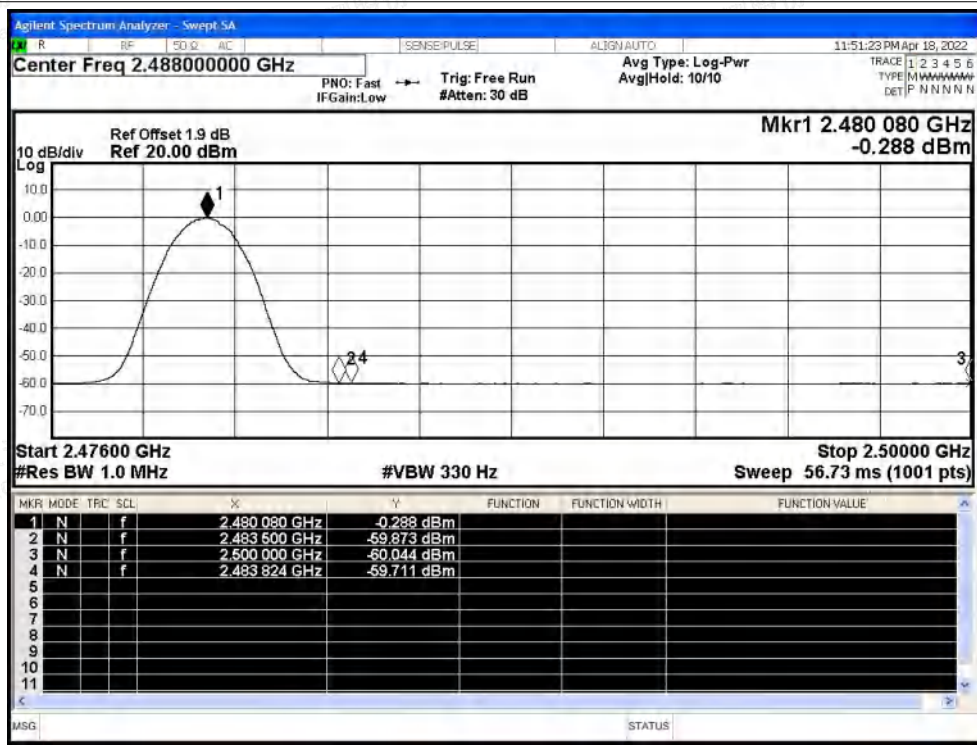




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

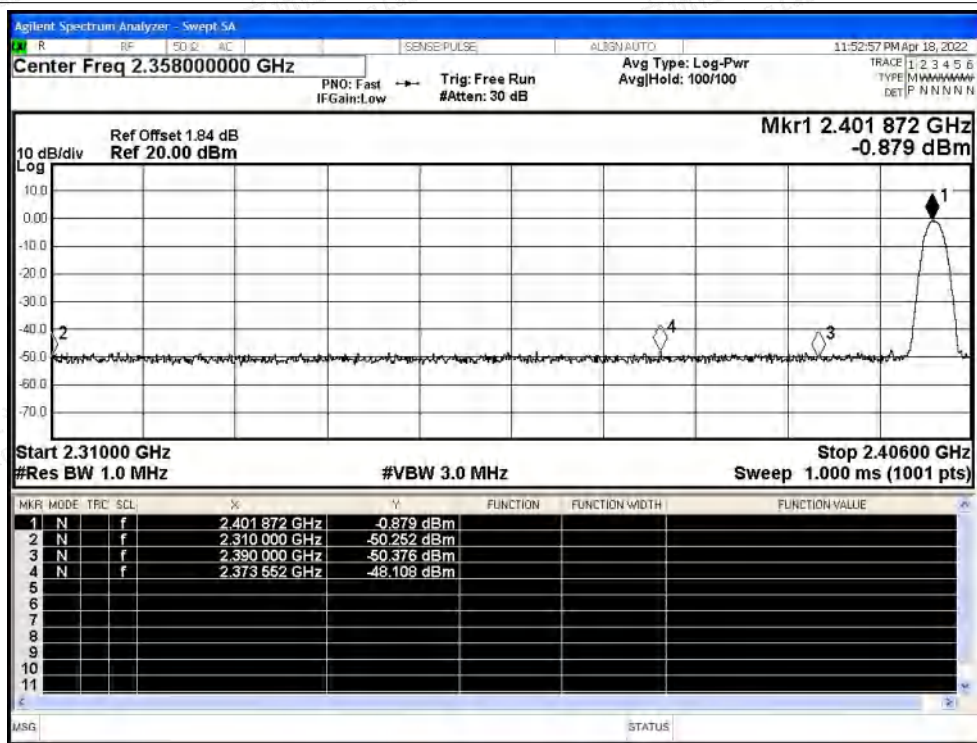


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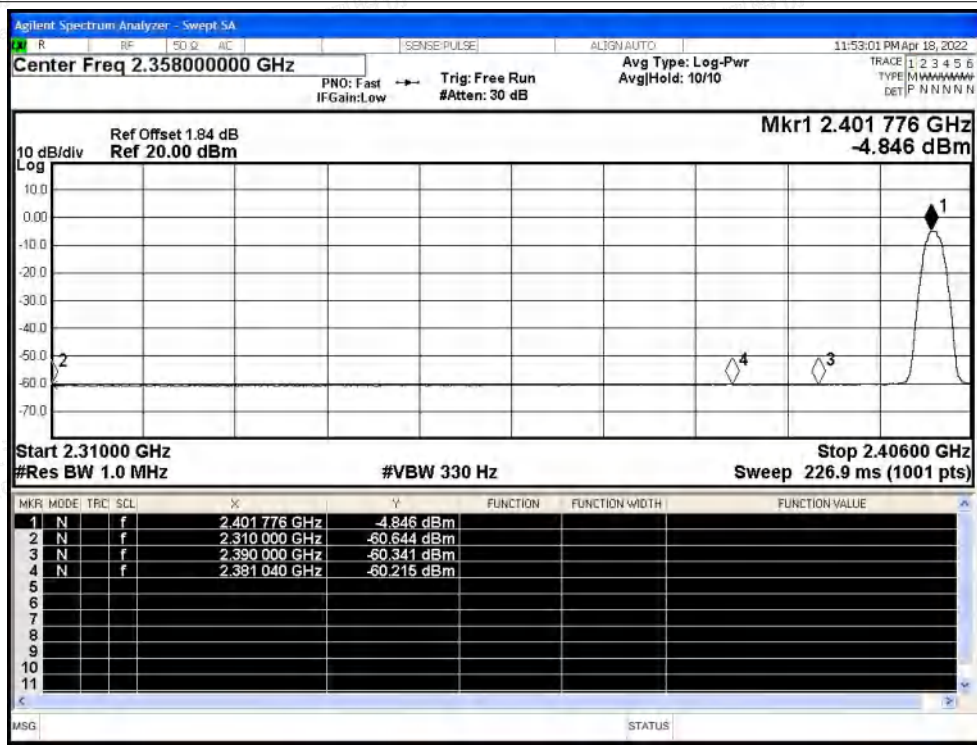




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

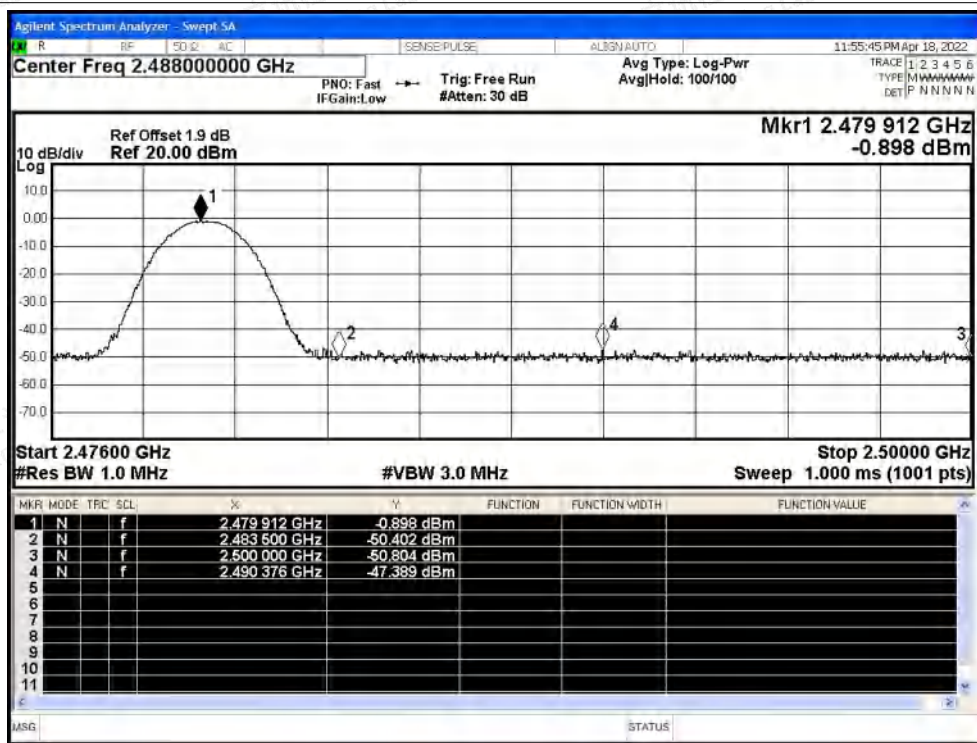


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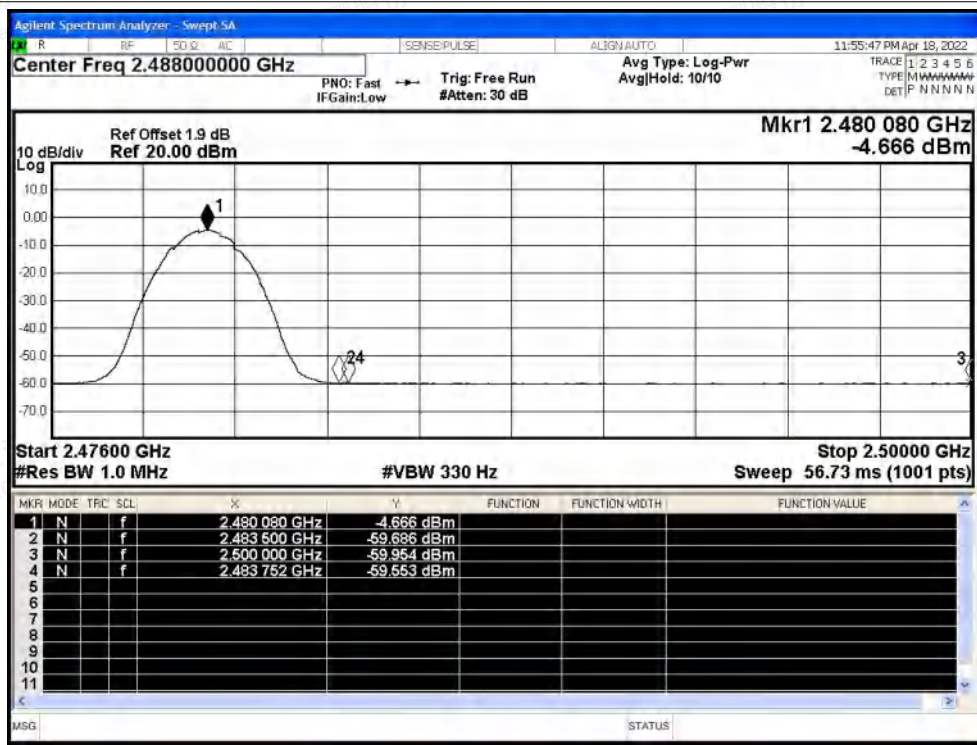




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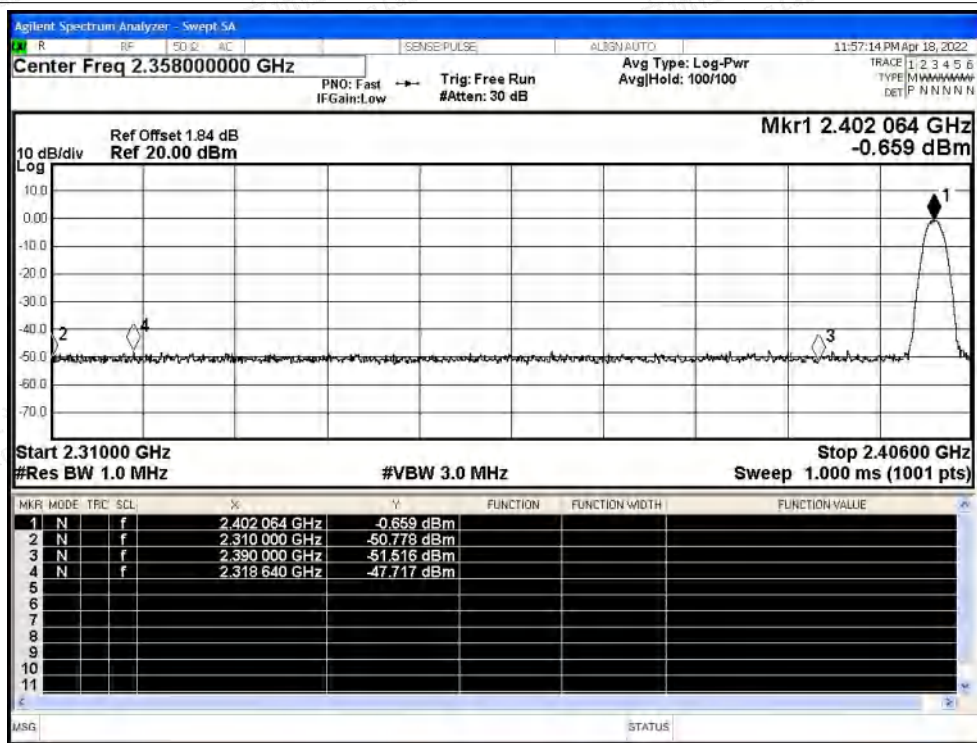


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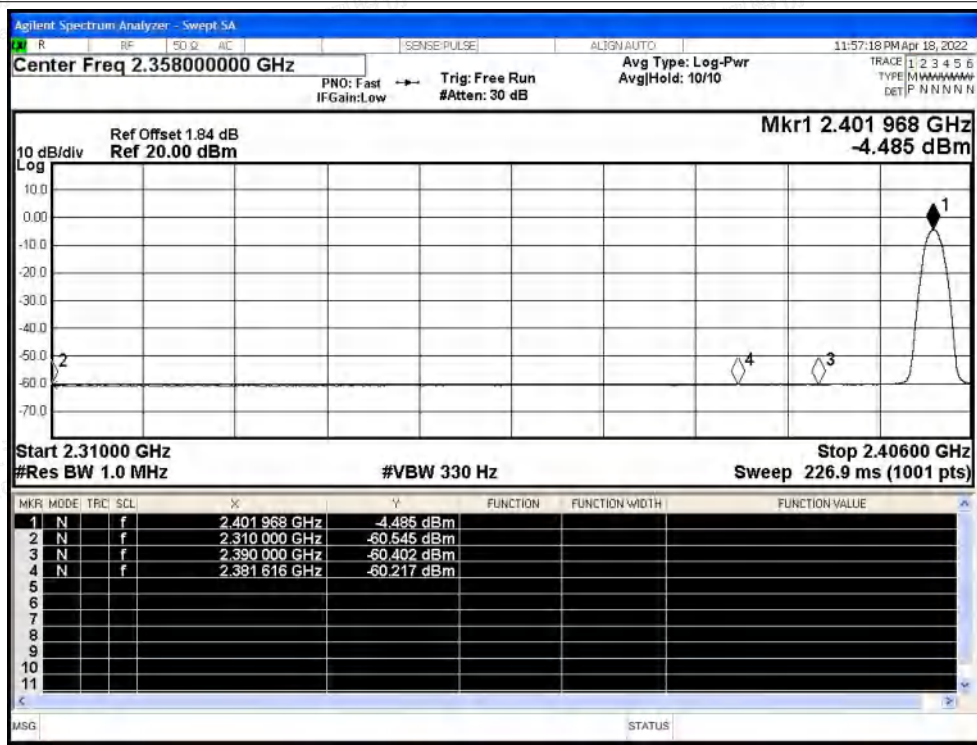




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

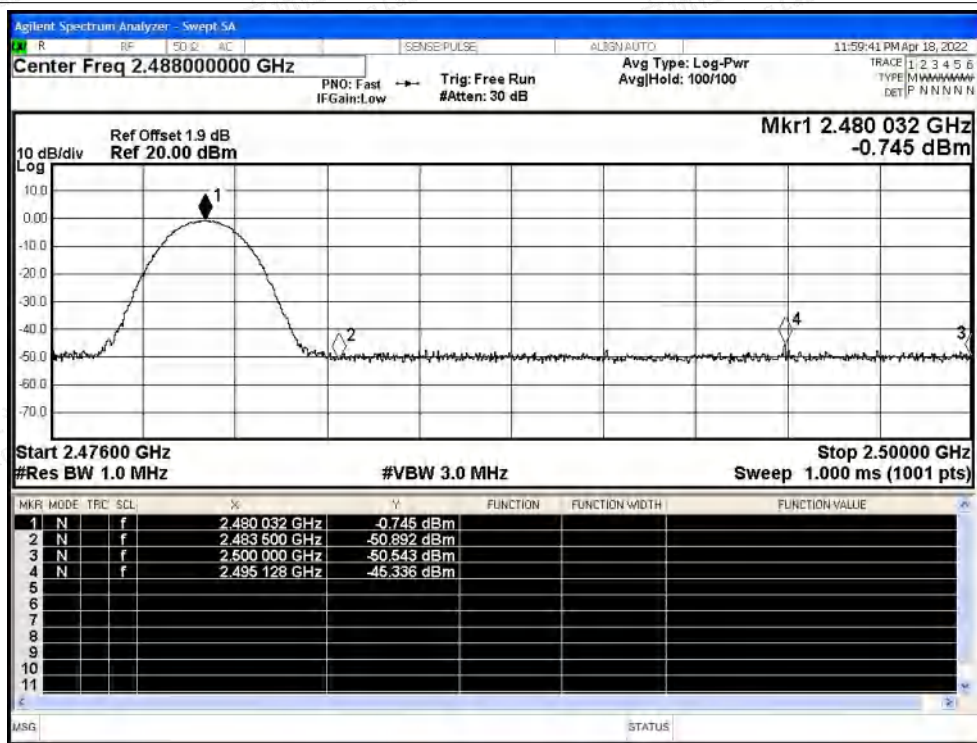


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

