



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: V40071W TWS Earbuds with Charging Case

Test Model: V40071W

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>Ling.Zhu</i> 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	0.954	NA	Pass
NVNT	1-DH5	2441	Ant1	1.027	NA	Pass
NVNT	1-DH5	2480	Ant1	1.018	NA	Pass
NVNT	2-DH5	2402	Ant1	1.317	NA	Pass
NVNT	2-DH5	2441	Ant1	1.315	NA	Pass
NVNT	2-DH5	2480	Ant1	1.281	NA	Pass
NVNT	3-DH5	2402	Ant1	1.289	NA	Pass
NVNT	3-DH5	2441	Ant1	1.292	NA	Pass
NVNT	3-DH5	2480	Ant1	1.273	NA	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

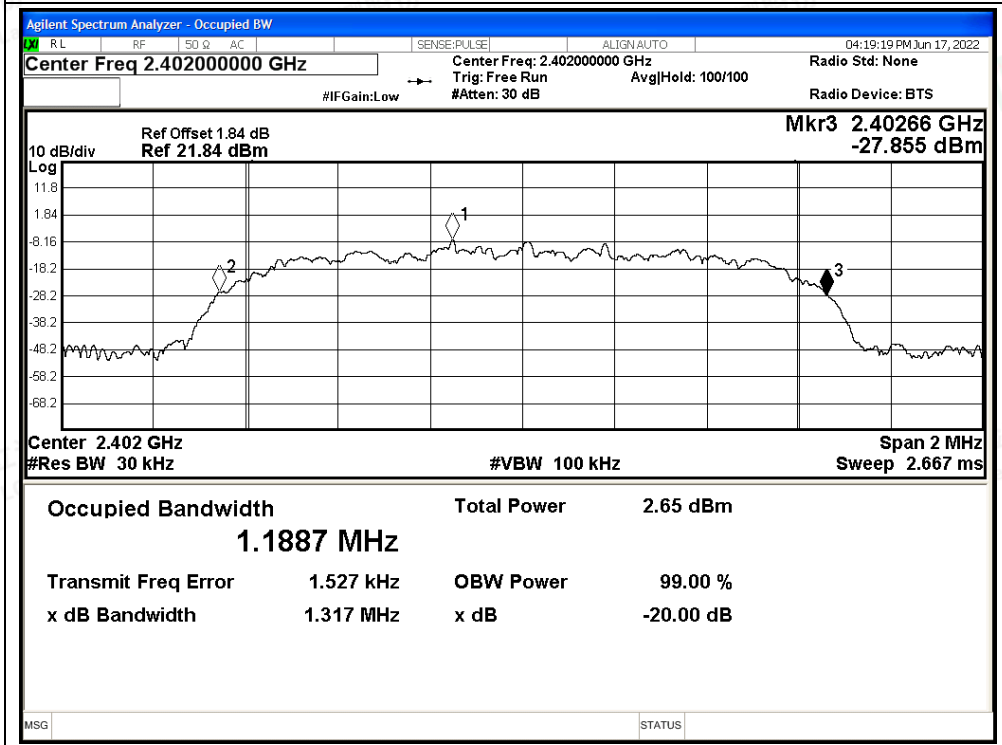




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

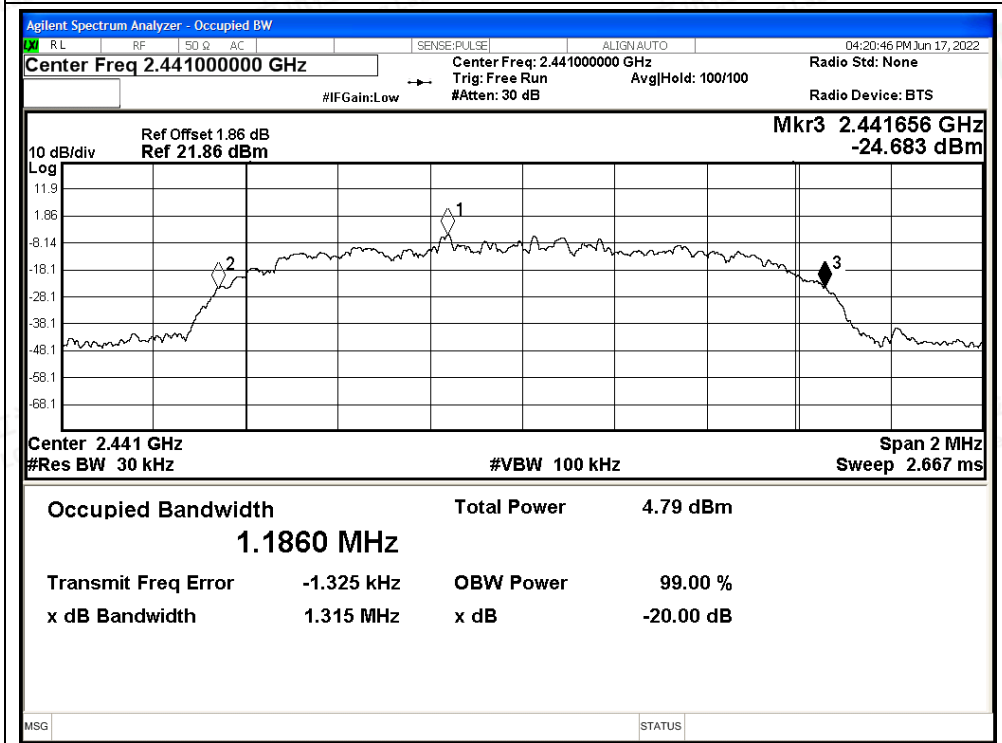


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

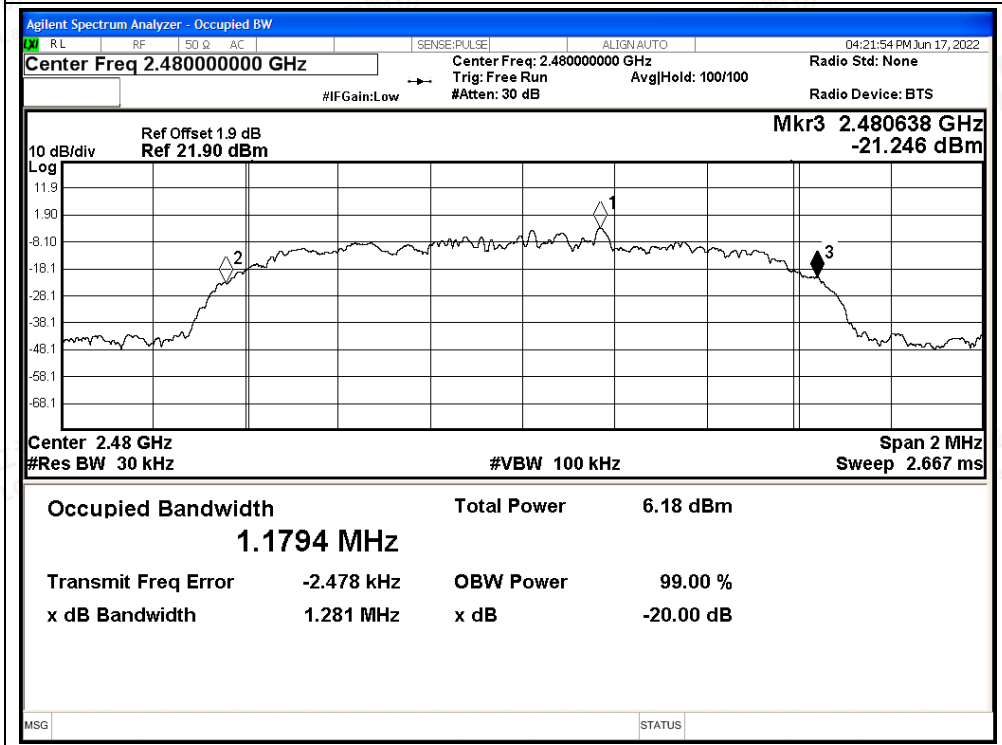




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

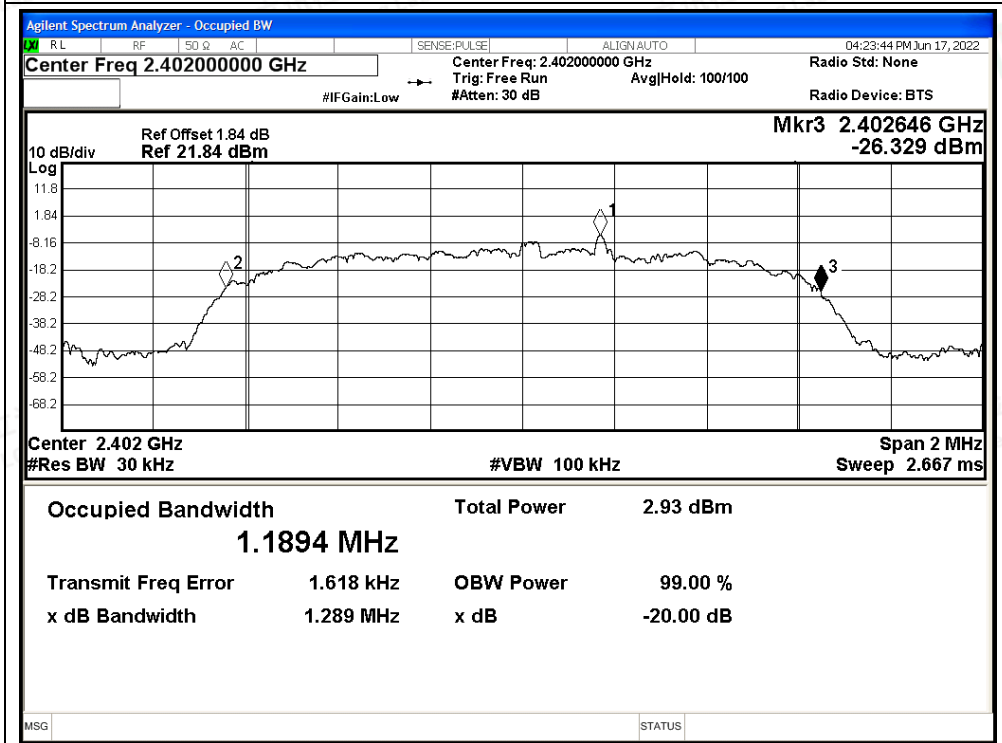


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

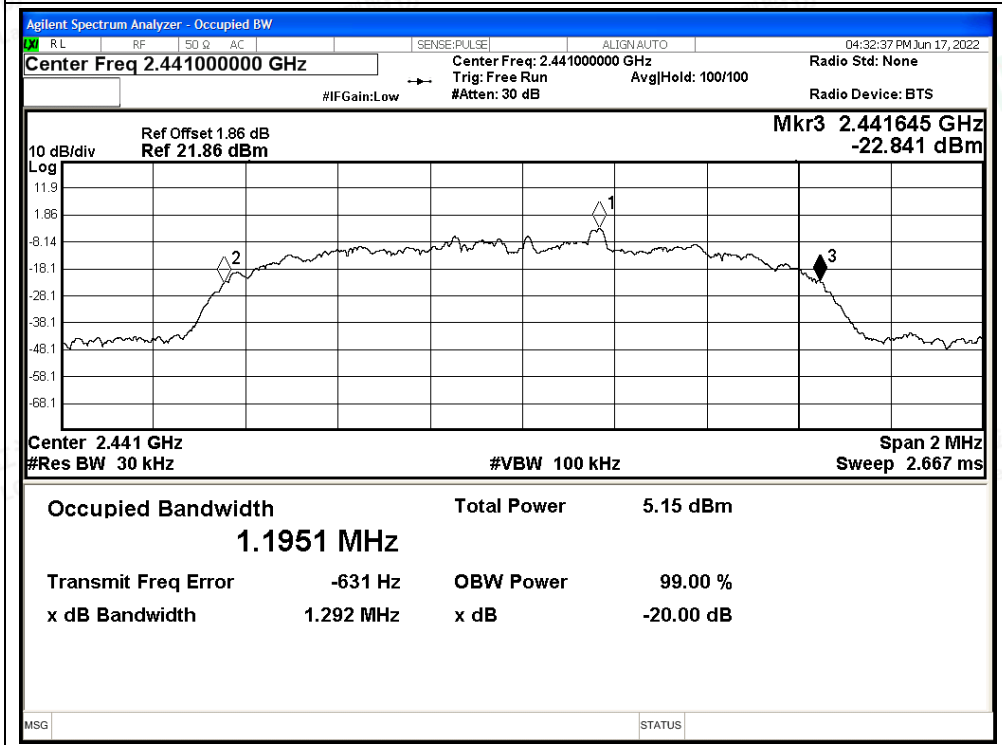


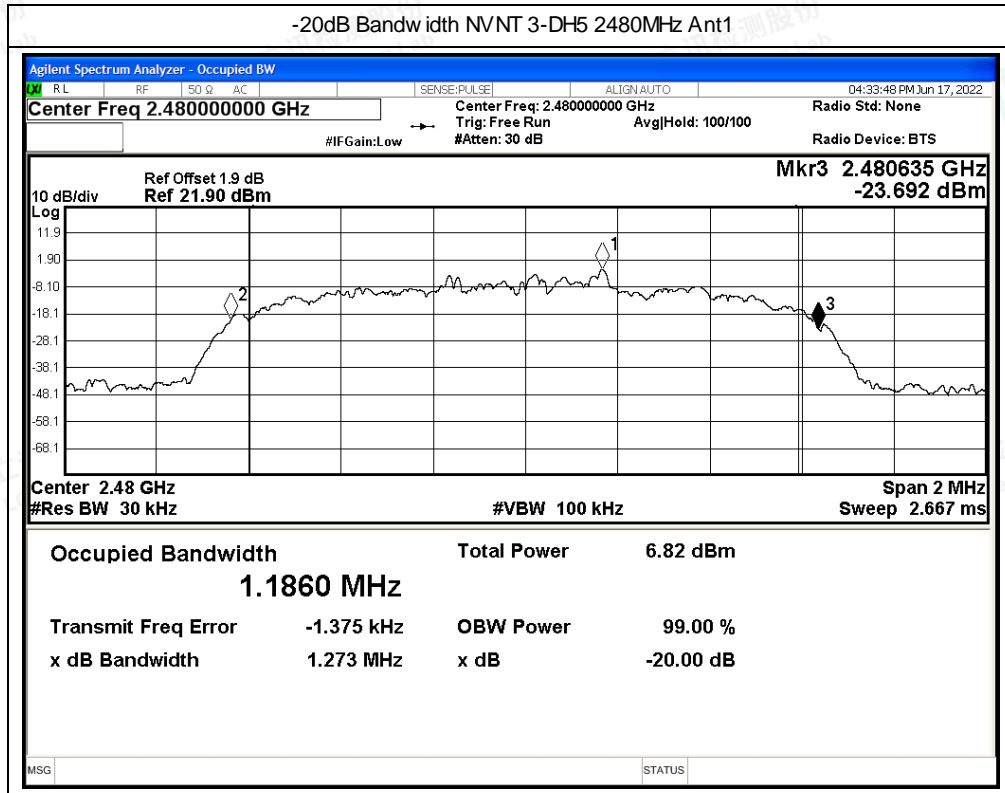


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum 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	-0.69	0	-0.69	21	Pass
NVNT	1-DH5	2441	Ant1	0.72	0	0.72	21	Pass
NVNT	1-DH5	2480	Ant1	2.24	0	2.24	21	Pass
NVNT	2-DH5	2402	Ant1	-1.65	0	-1.65	21	Pass
NVNT	2-DH5	2441	Ant1	-0.02	0	-0.02	21	Pass
NVNT	2-DH5	2480	Ant1	1.33	0	1.33	21	Pass
NVNT	3-DH5	2402	Ant1	-1.6	0	-1.6	21	Pass
NVNT	3-DH5	2441	Ant1	0.27	0	0.27	21	Pass
NVNT	3-DH5	2480	Ant1	1.76	0	1.76	21	Pass

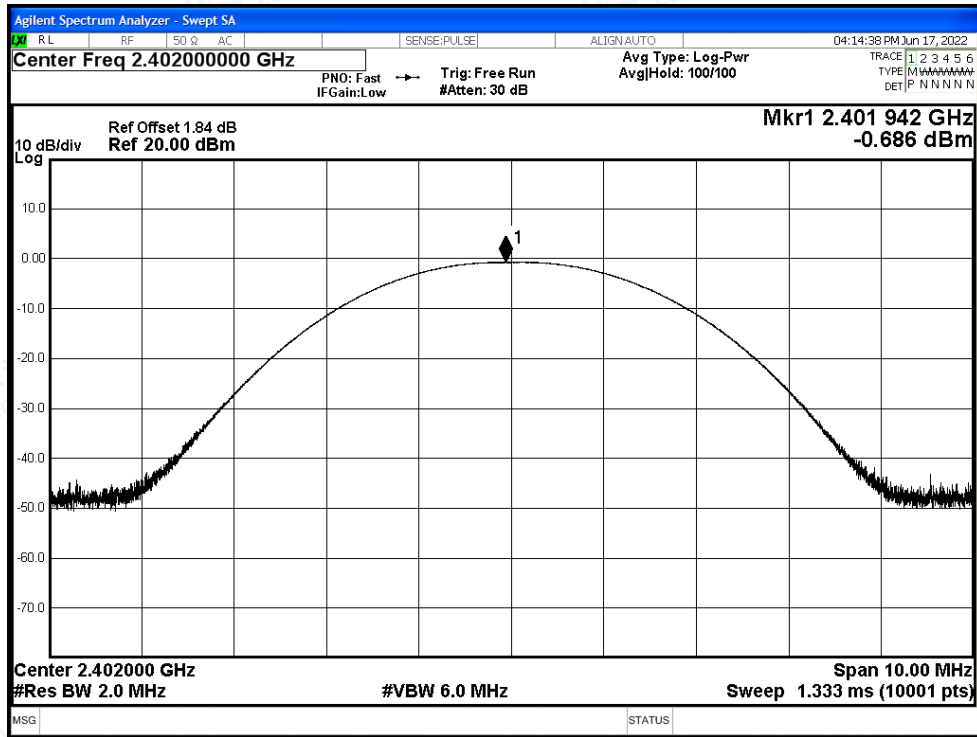


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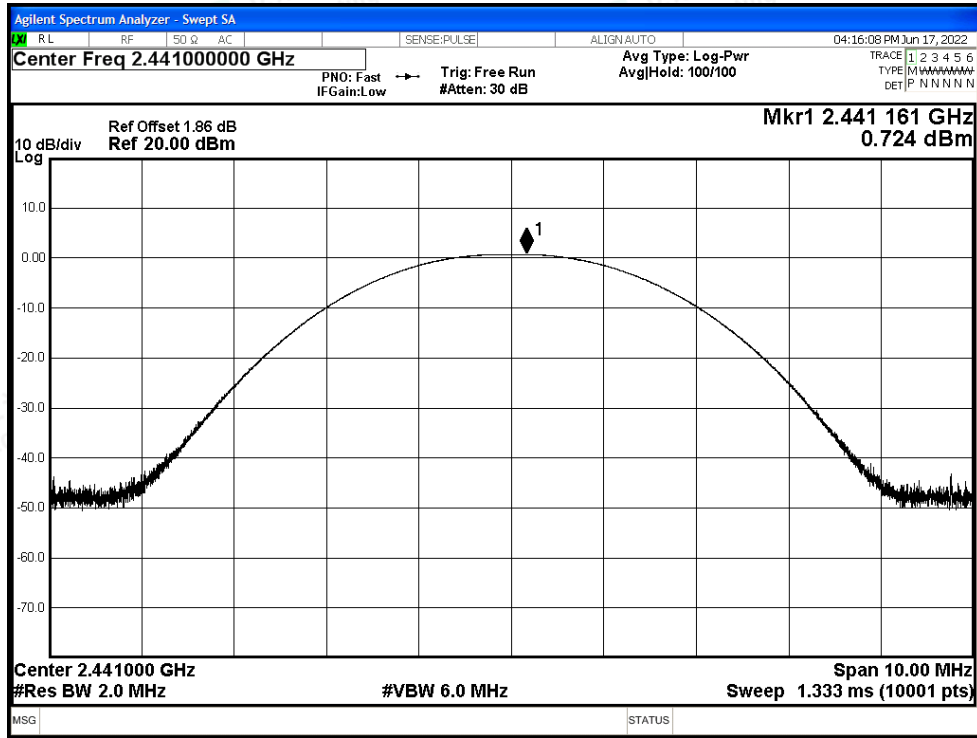


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

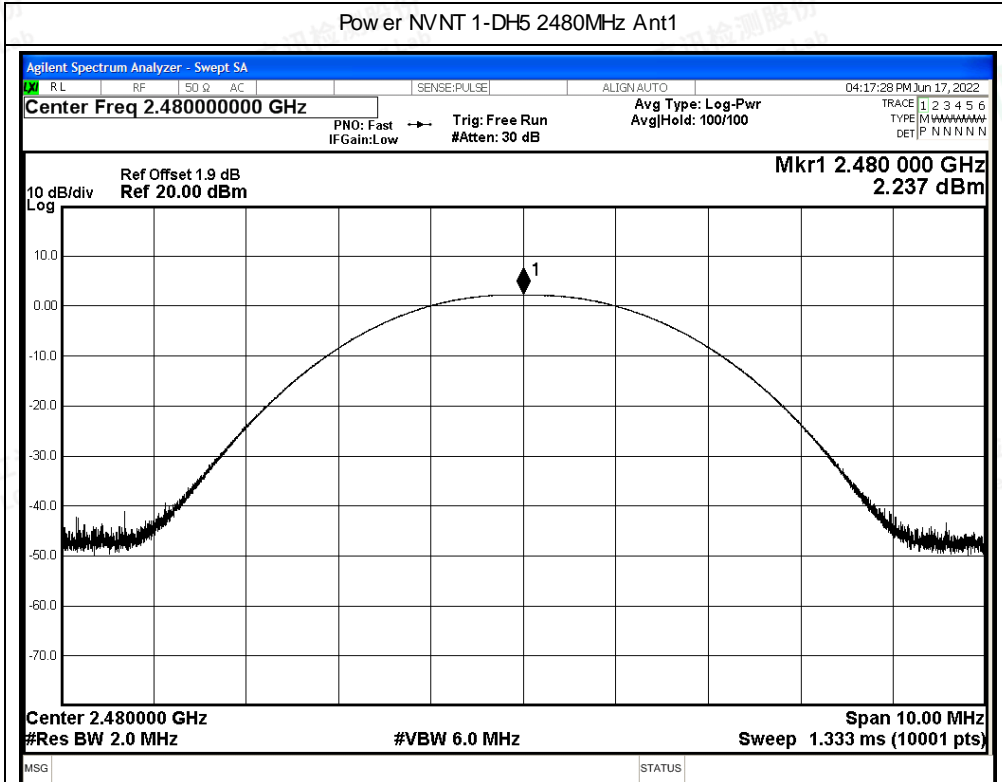


Power NVNT 1-DH5 2441MHz Ant1

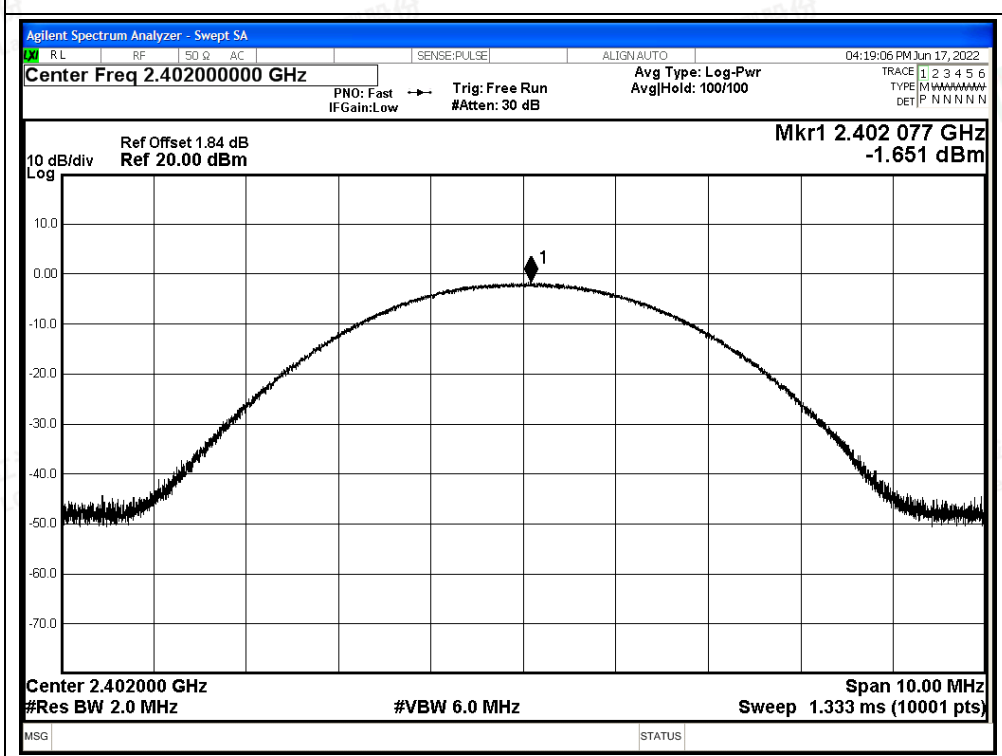




Power NVNT 1-DH5 2480MHz Ant1

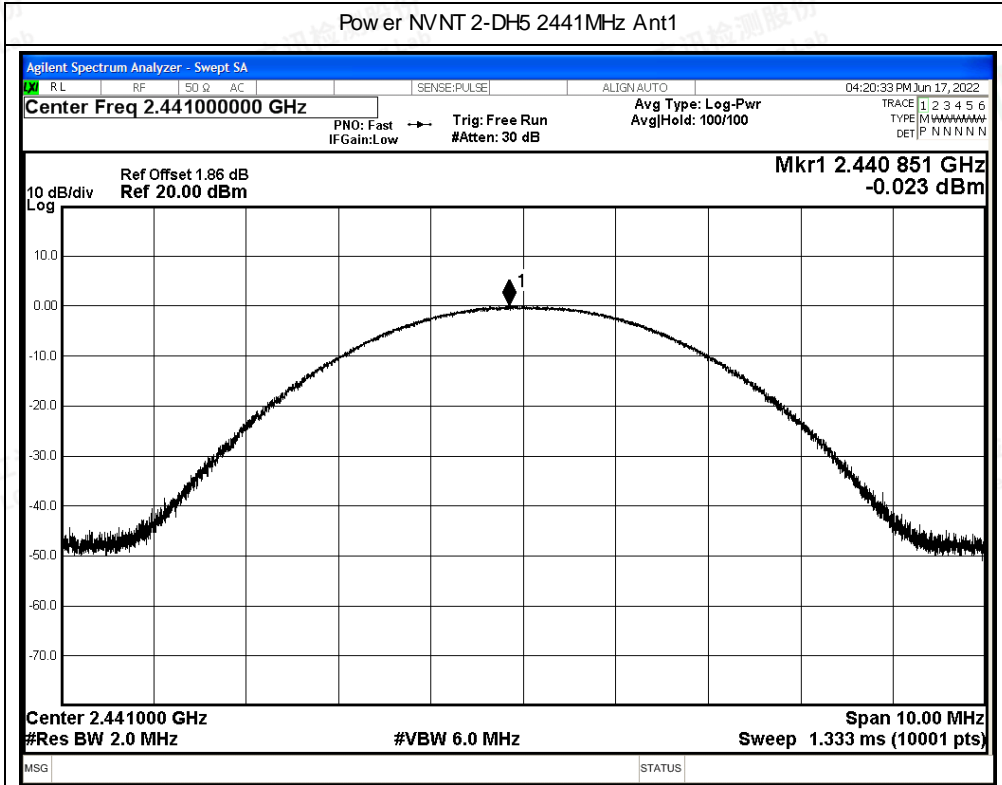


Power NVNT 2-DH5 2402MHz Ant1

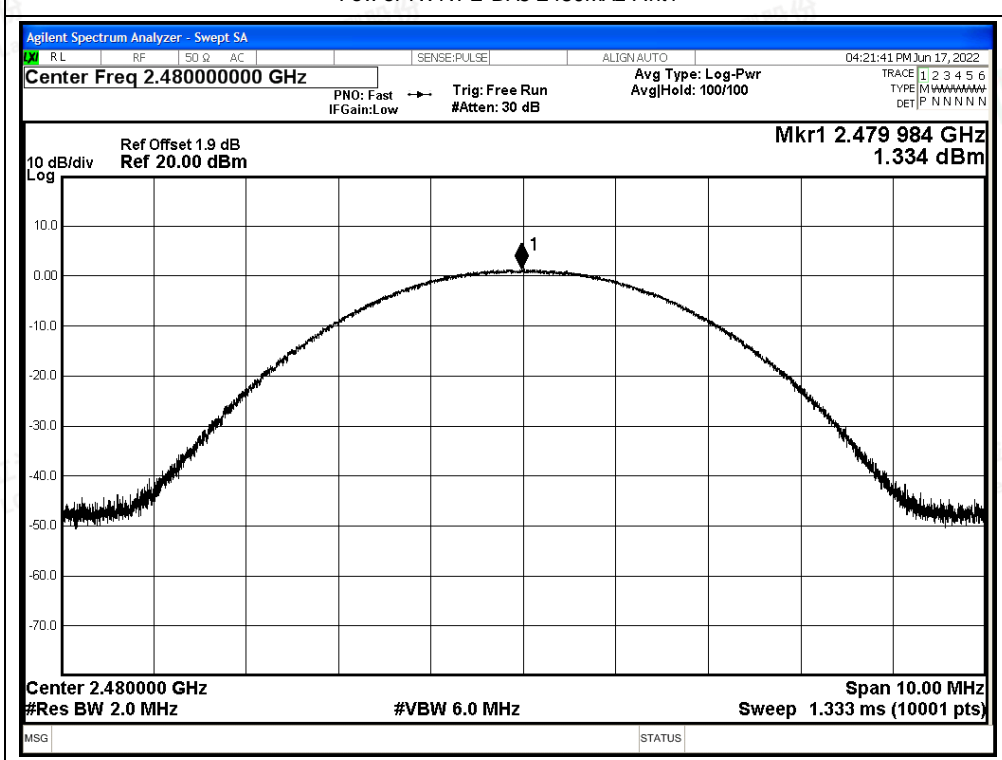




Power NVNT 2-DH5 2441MHz Ant1

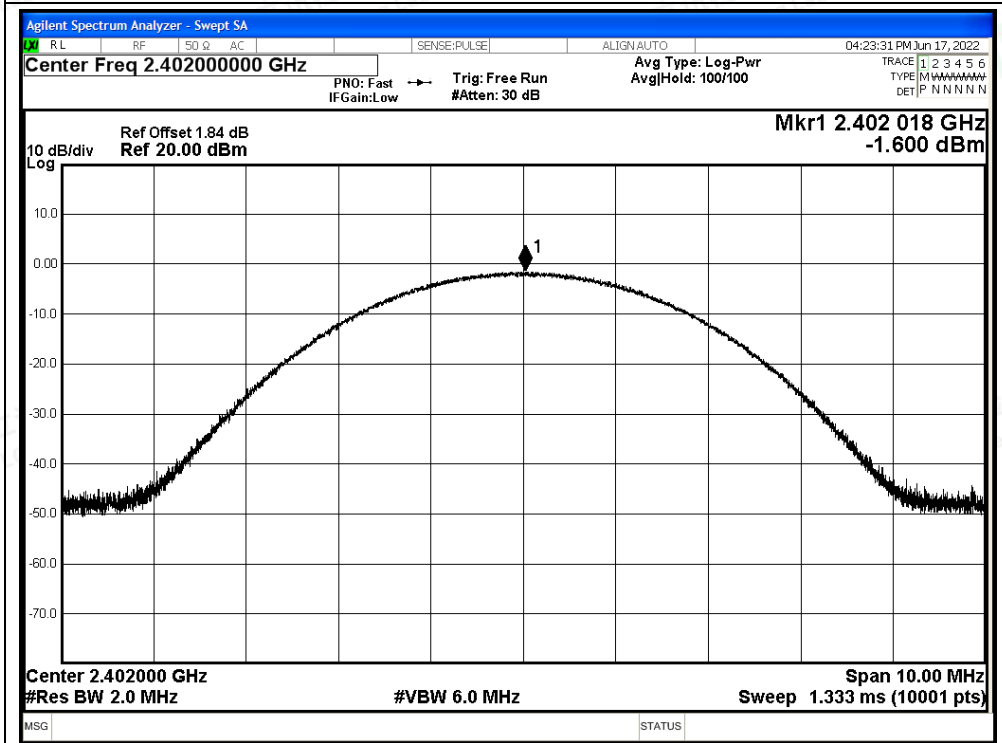


Power NVNT 2-DH5 2480MHz Ant1

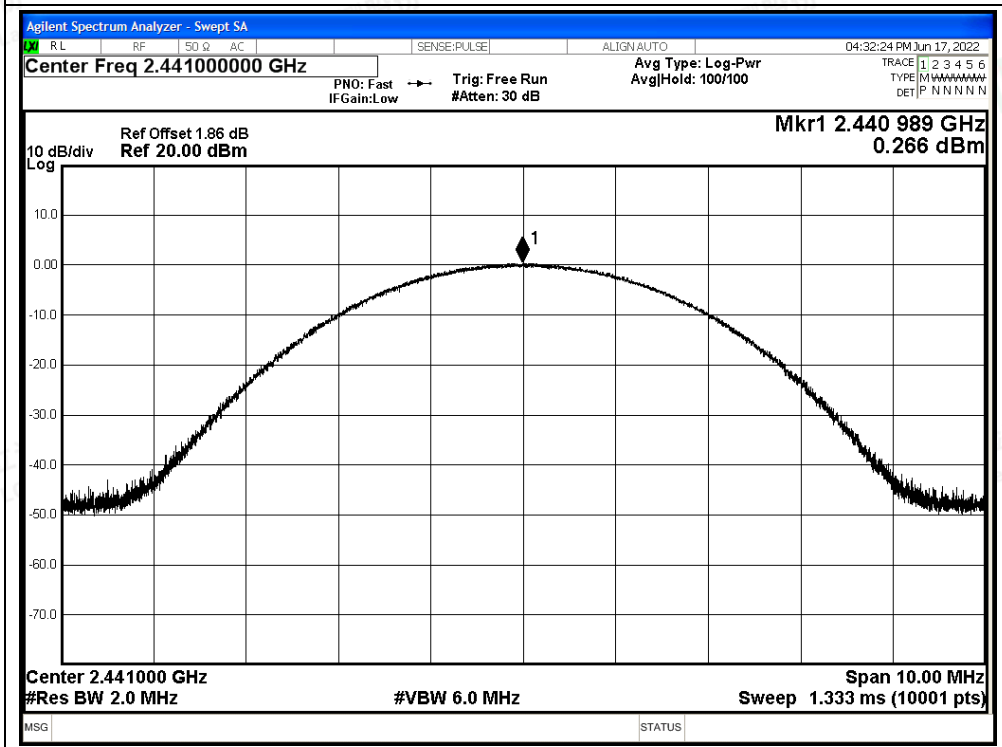


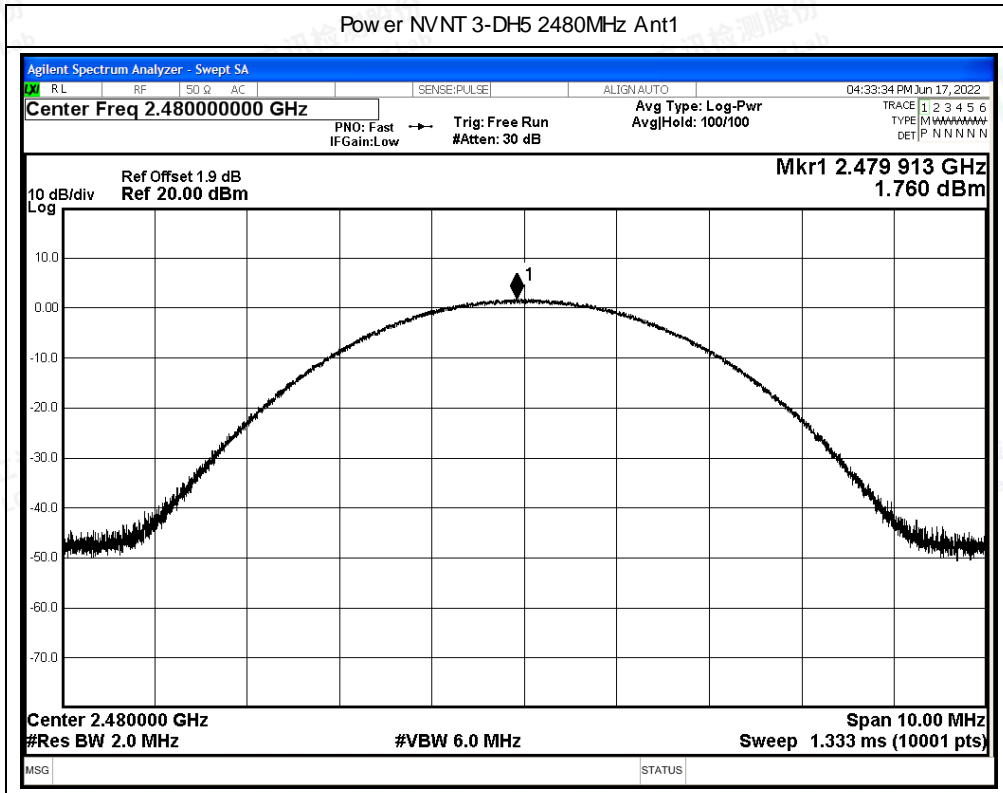


Power NVNT 3-DH5 2402MHz Ant1



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	2402.002	2403.014	1.012	0.636	Pass
NVNT	2-DH5	Ant1	2402.084	2403.014	0.93	0.025	Pass
NVNT	3-DH5	Ant1	2402.008	2403.162	1.154	0.025	Pass

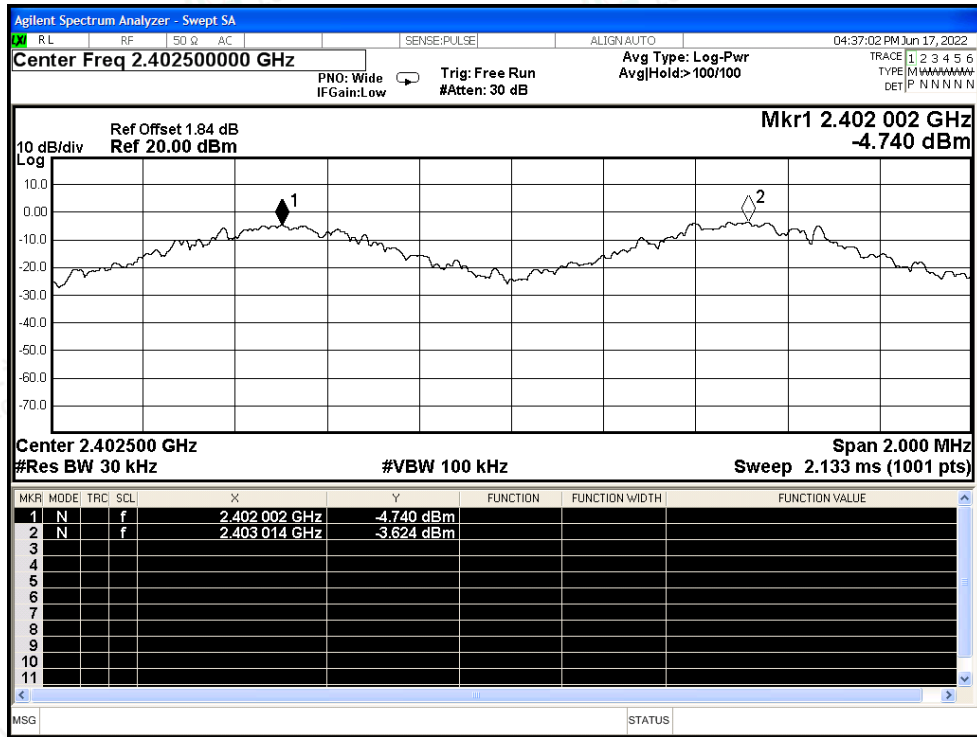


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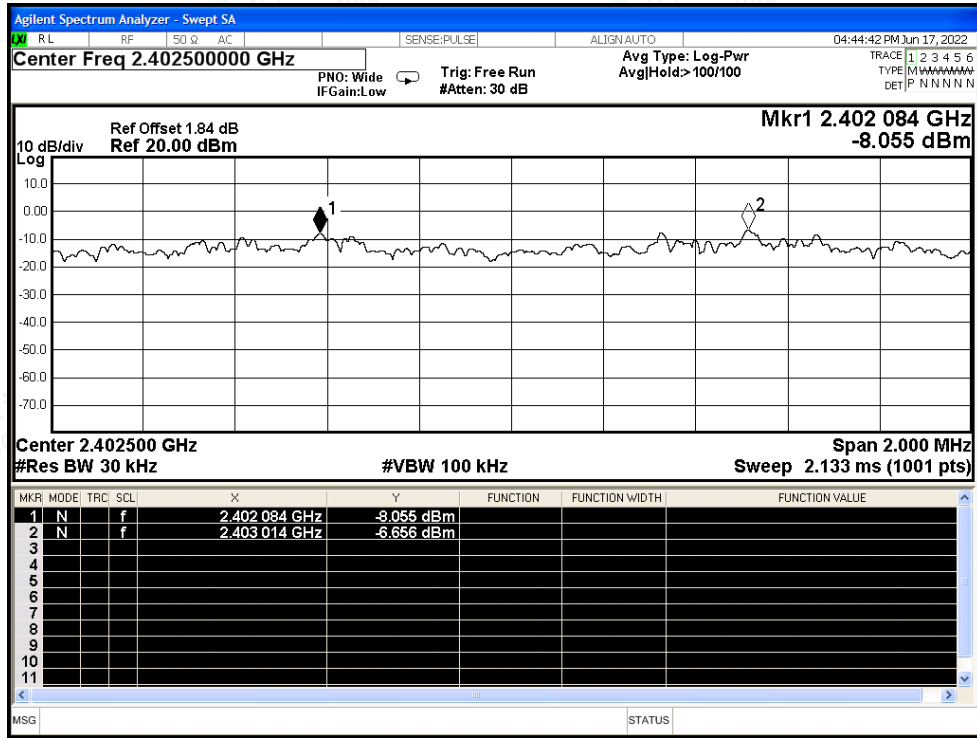


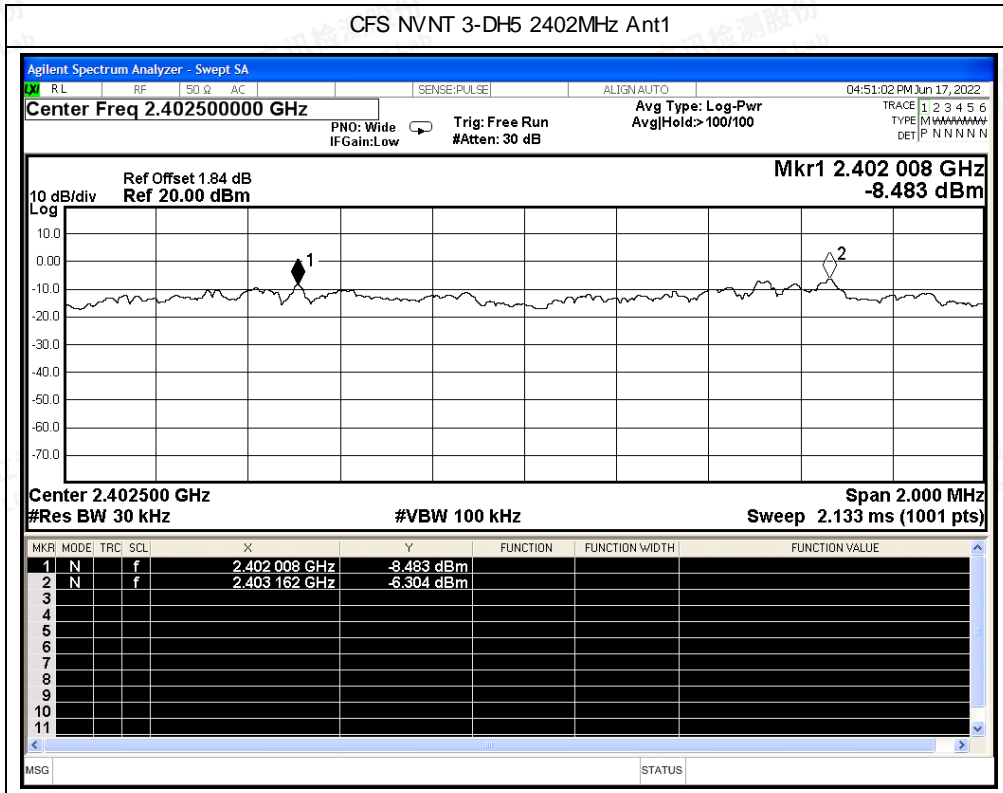
Test Graphs

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	302.505	105	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	311.256	108	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	328.548	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	331.775	115	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	299.52	104	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	311.364	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	308.909	107	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.884	334.544	116	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.885	320.235	111	31600	400	Pass

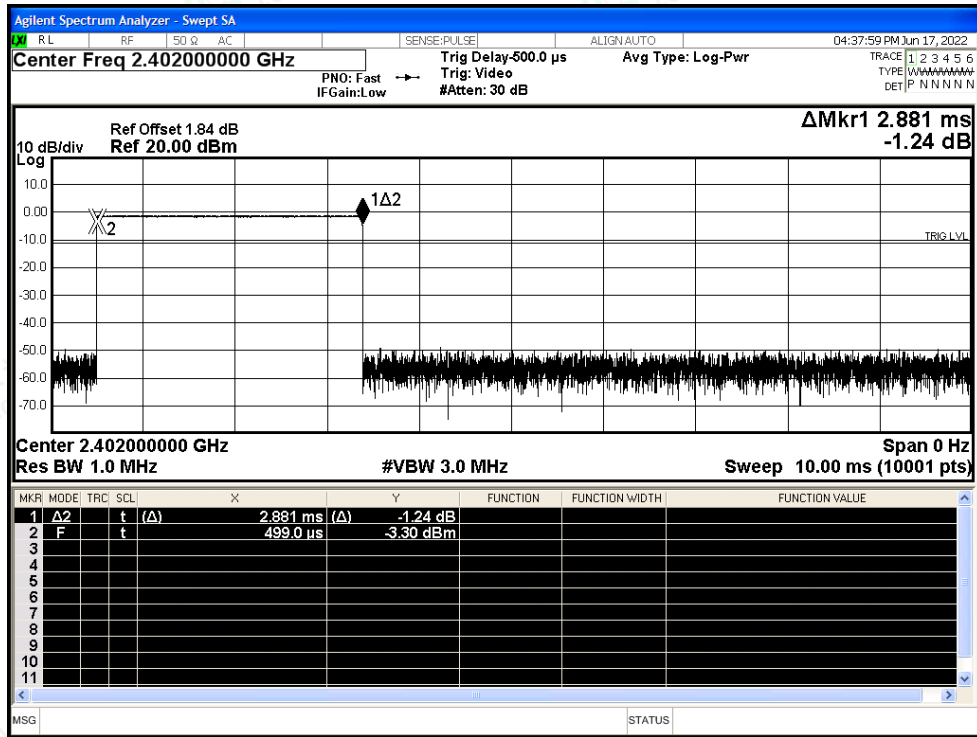


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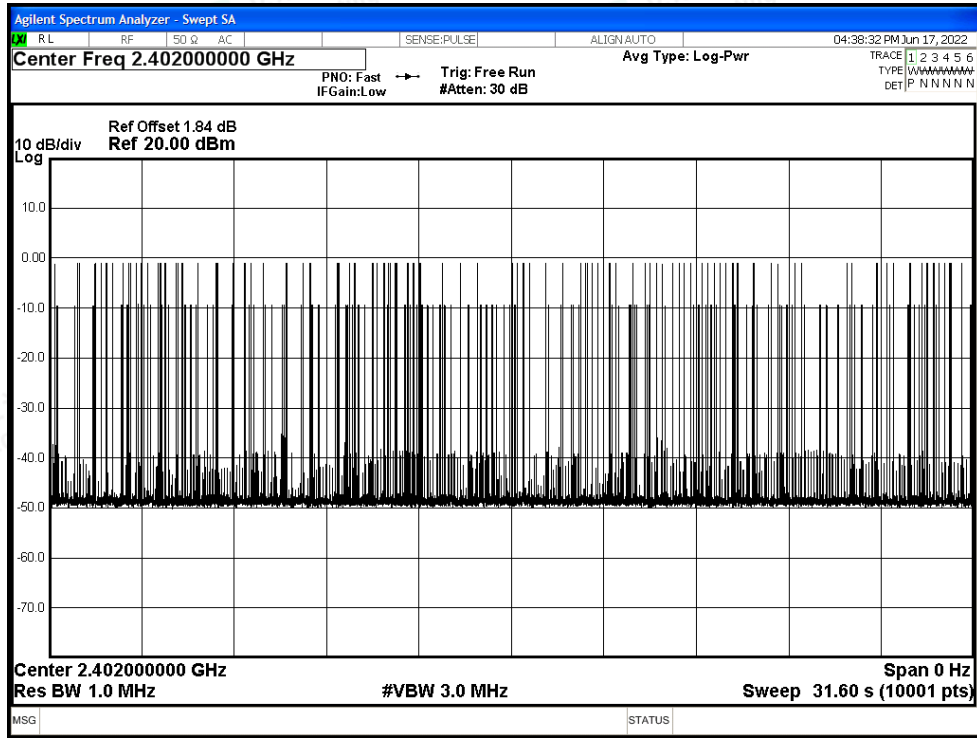


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

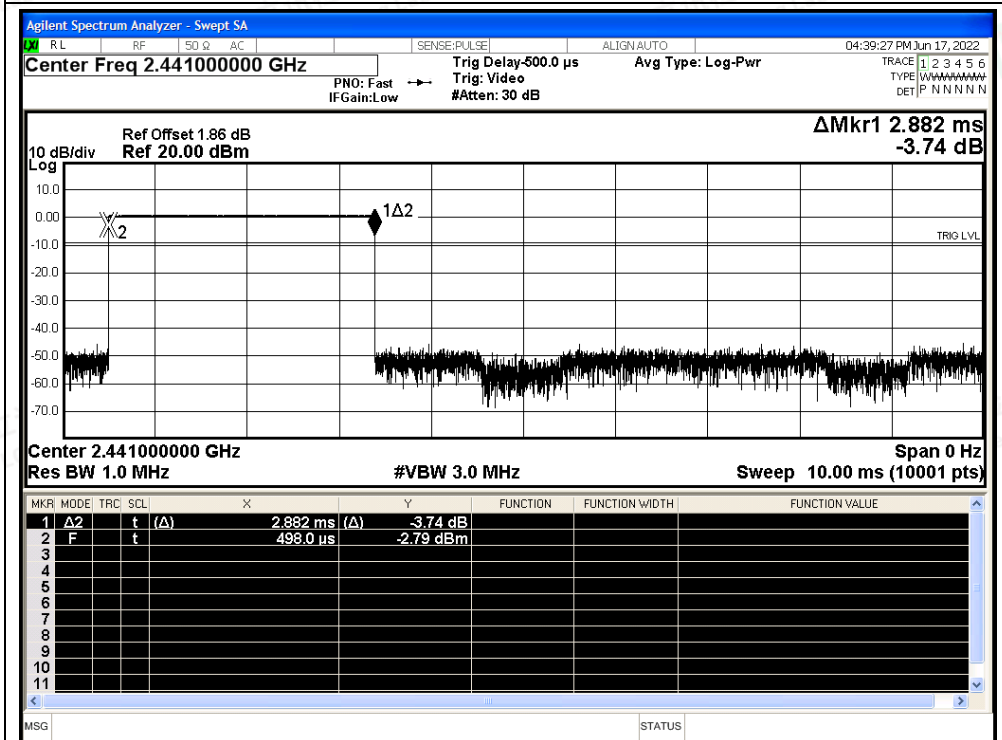


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

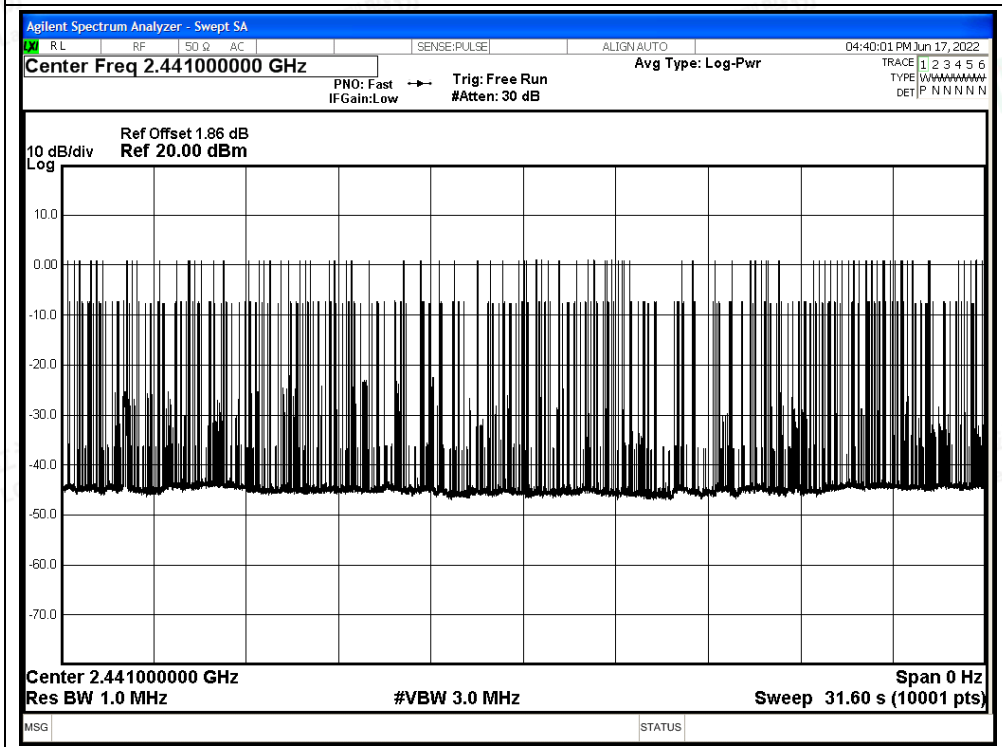




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

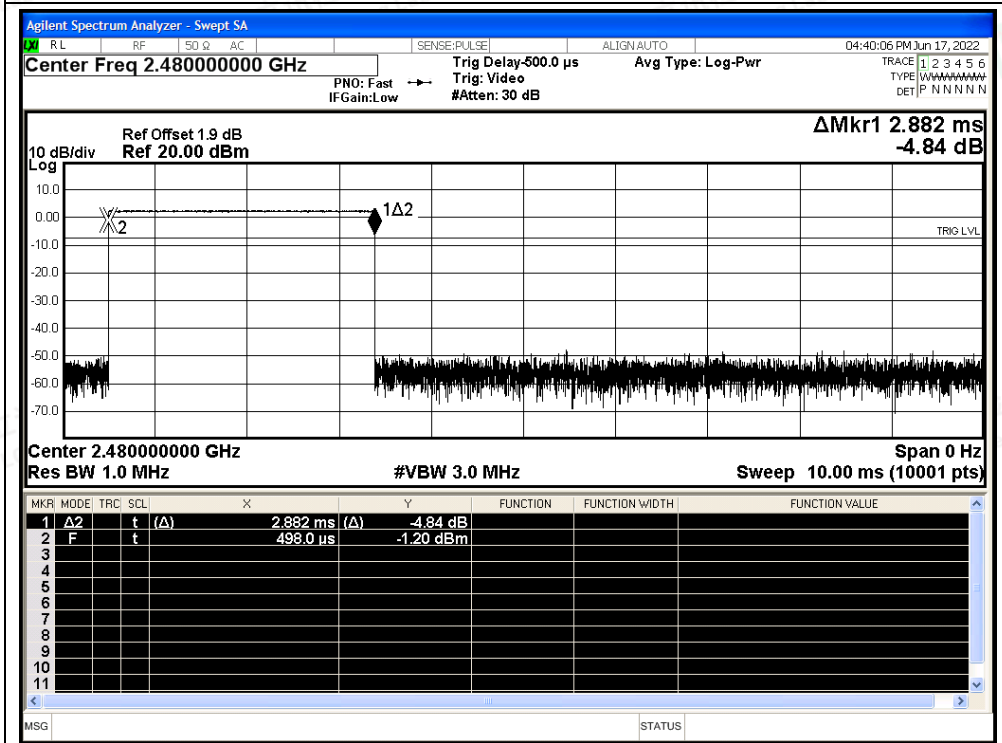


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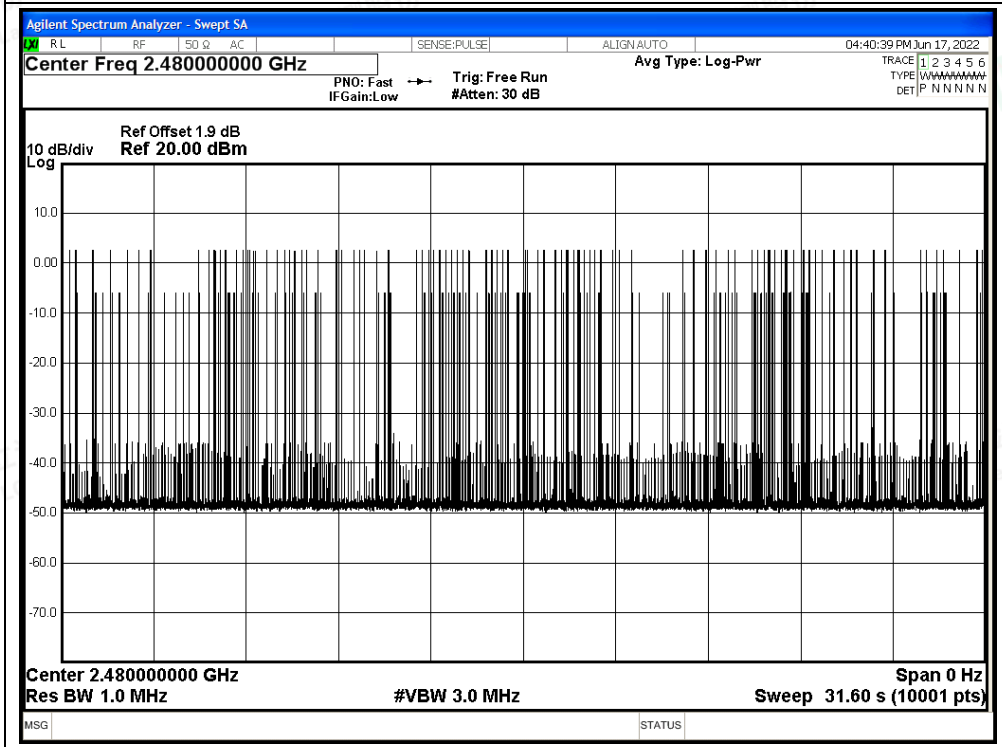




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

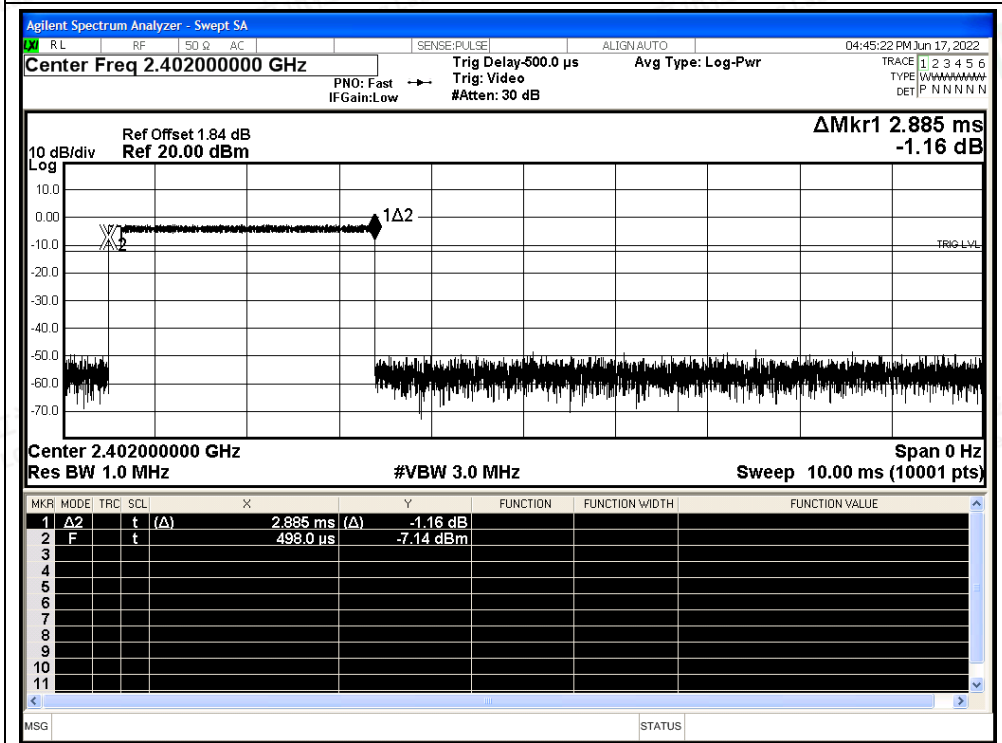


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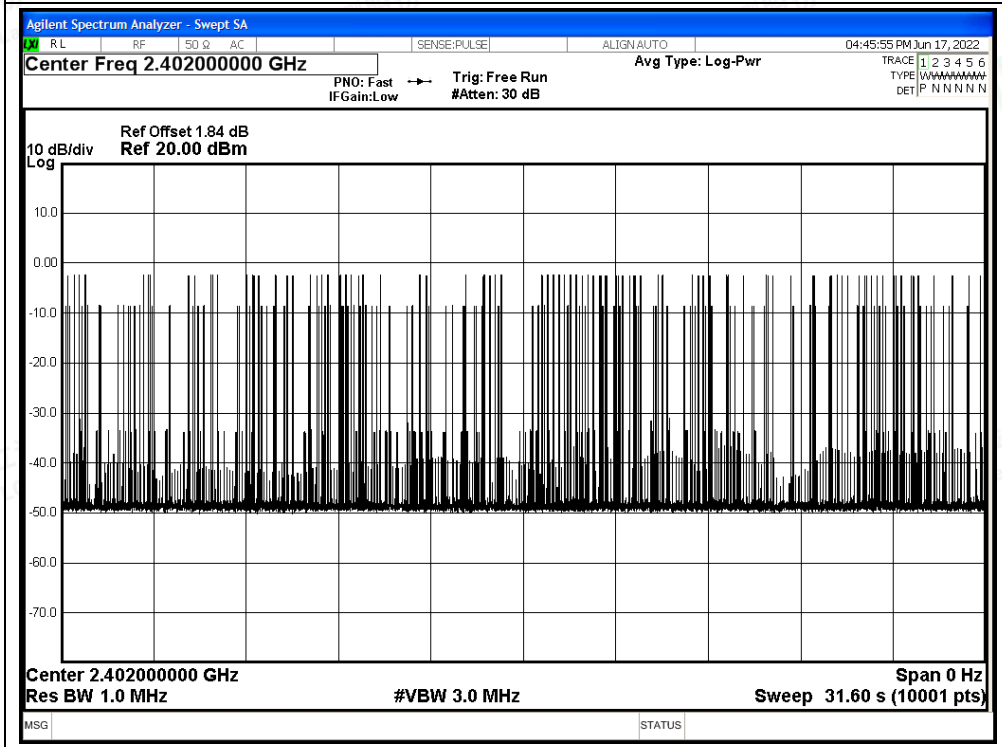




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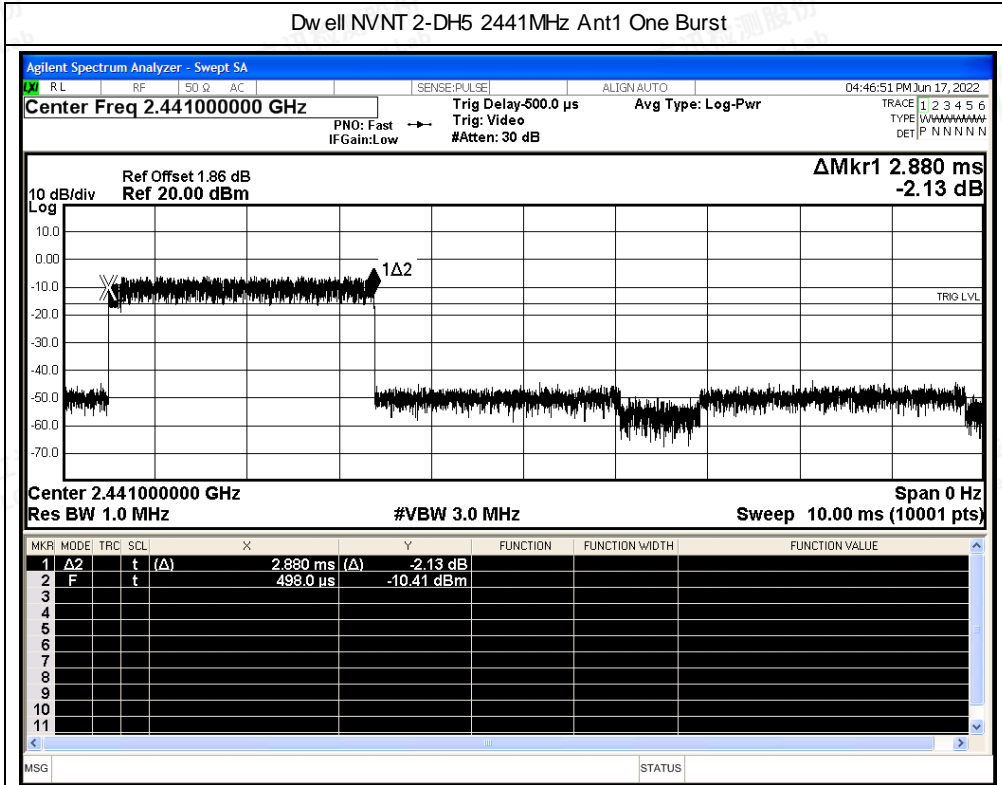


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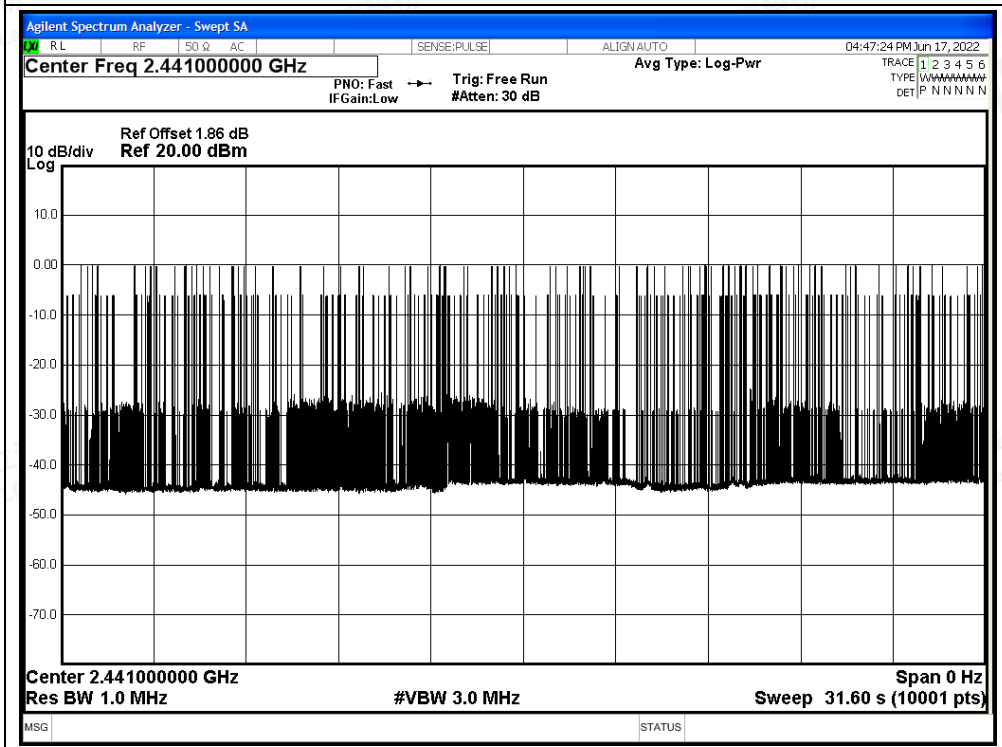




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

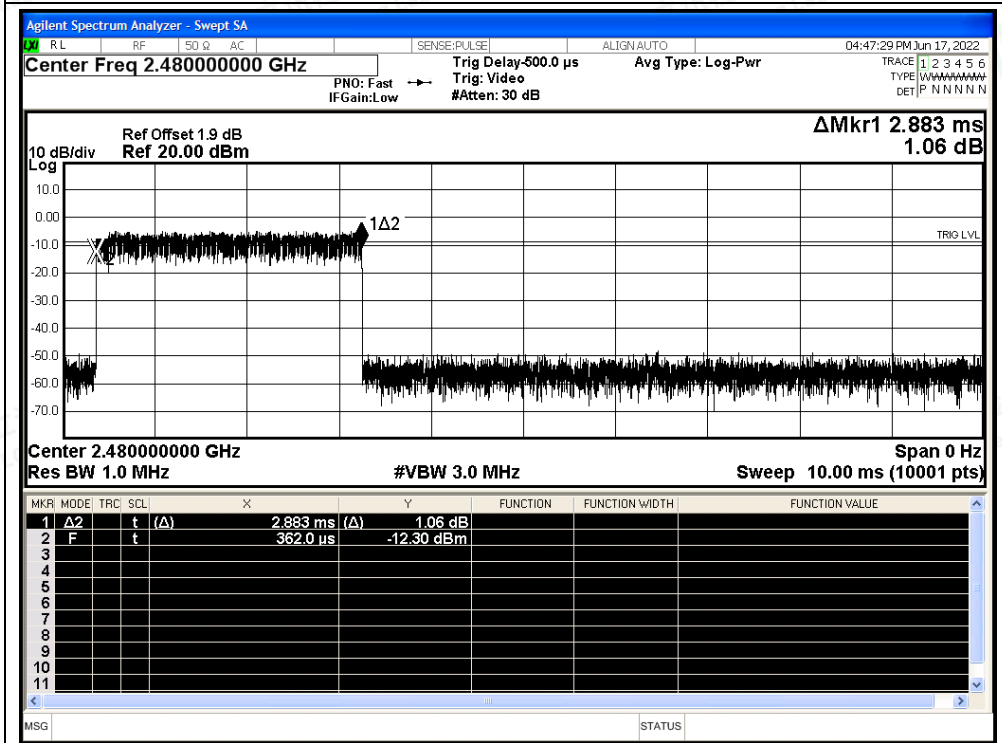


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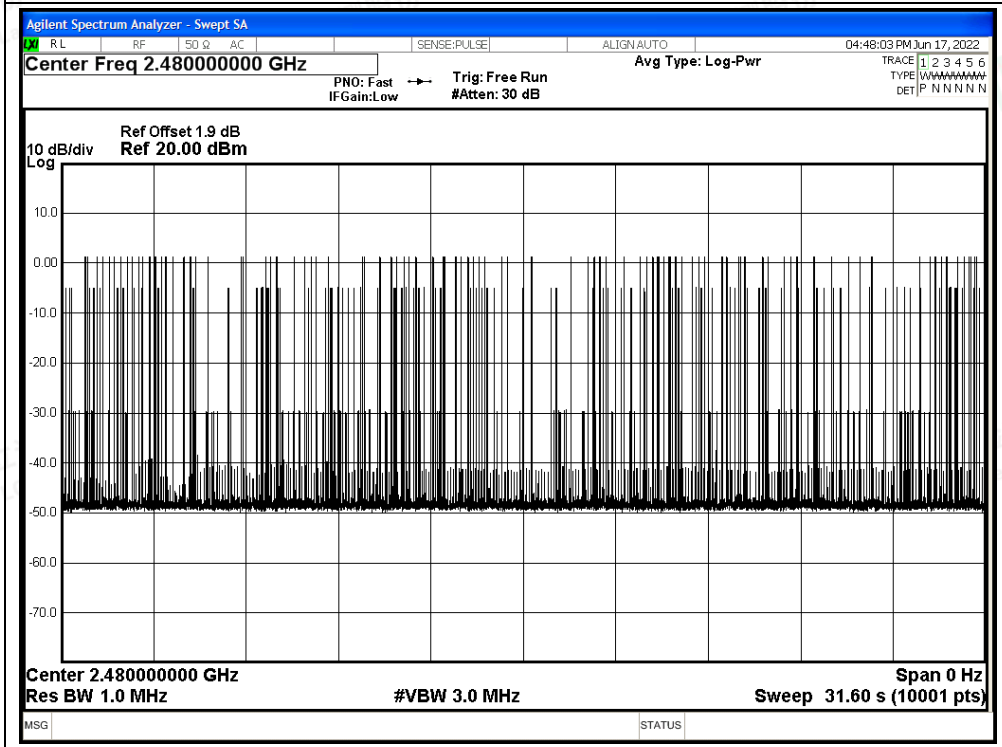




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

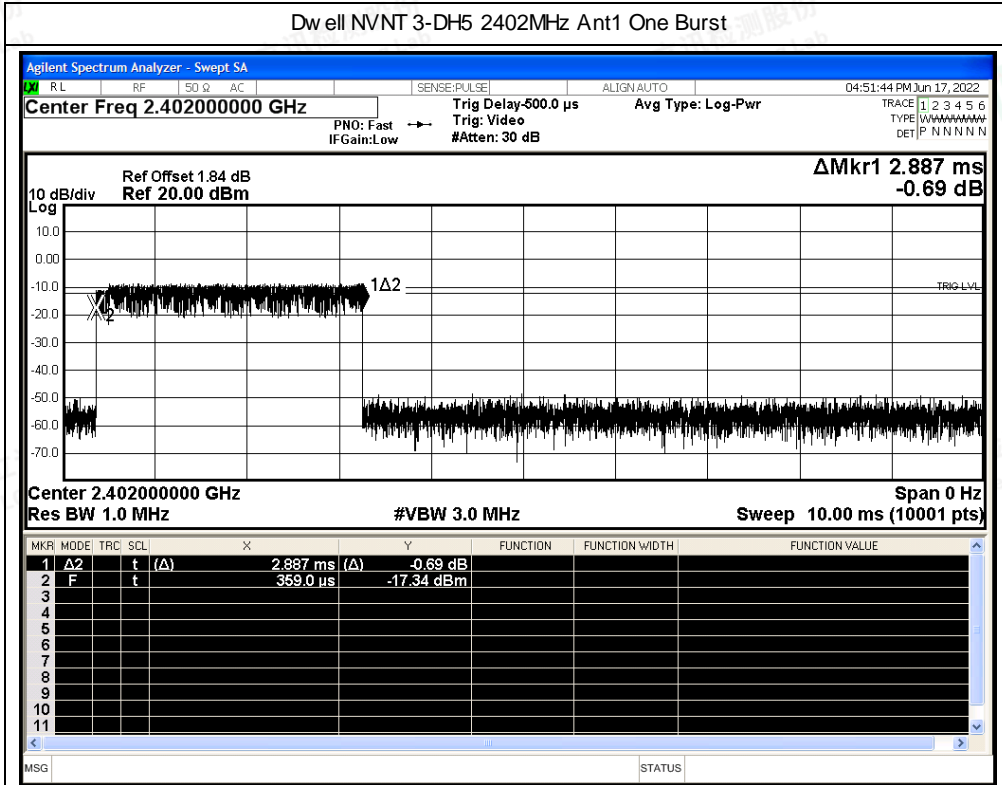


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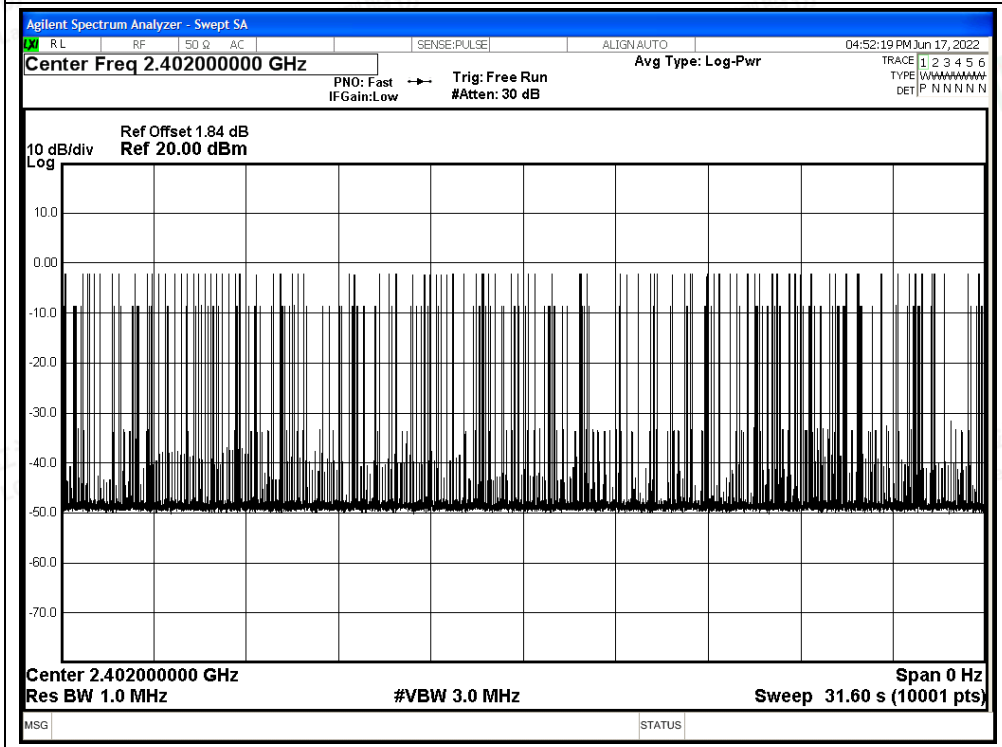




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

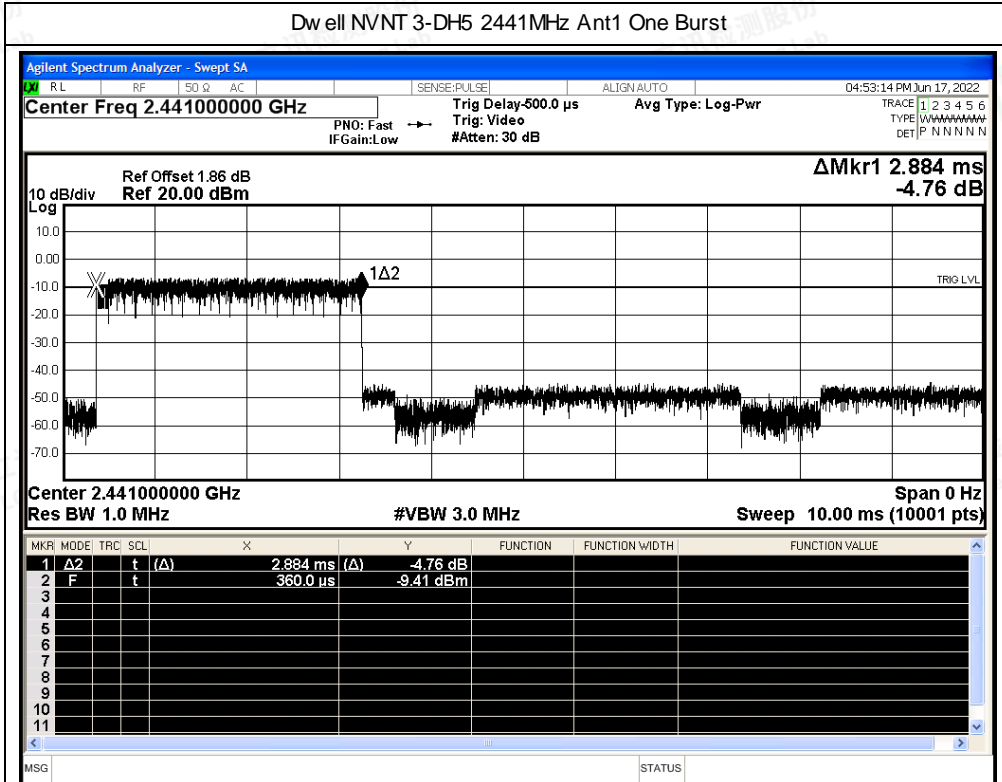


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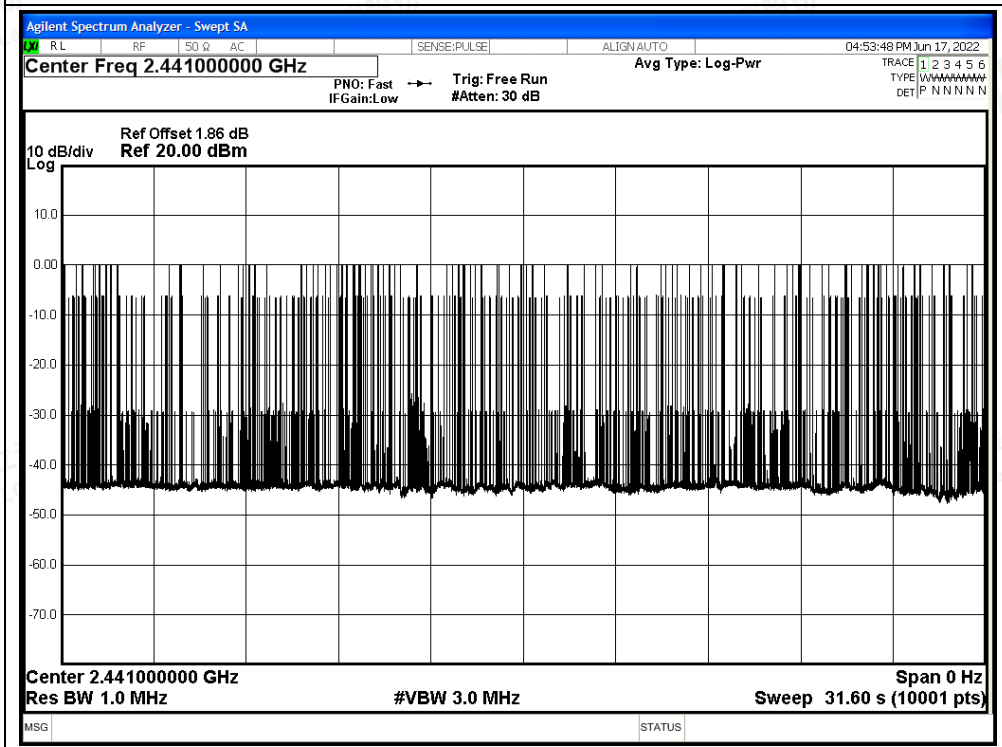




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

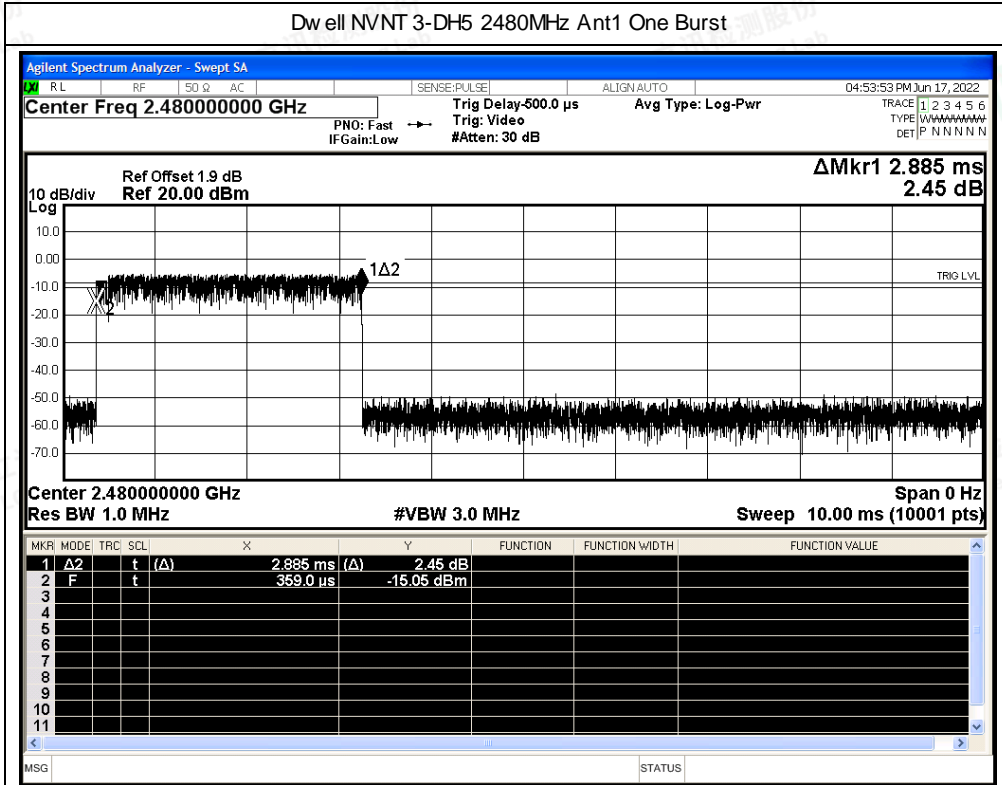


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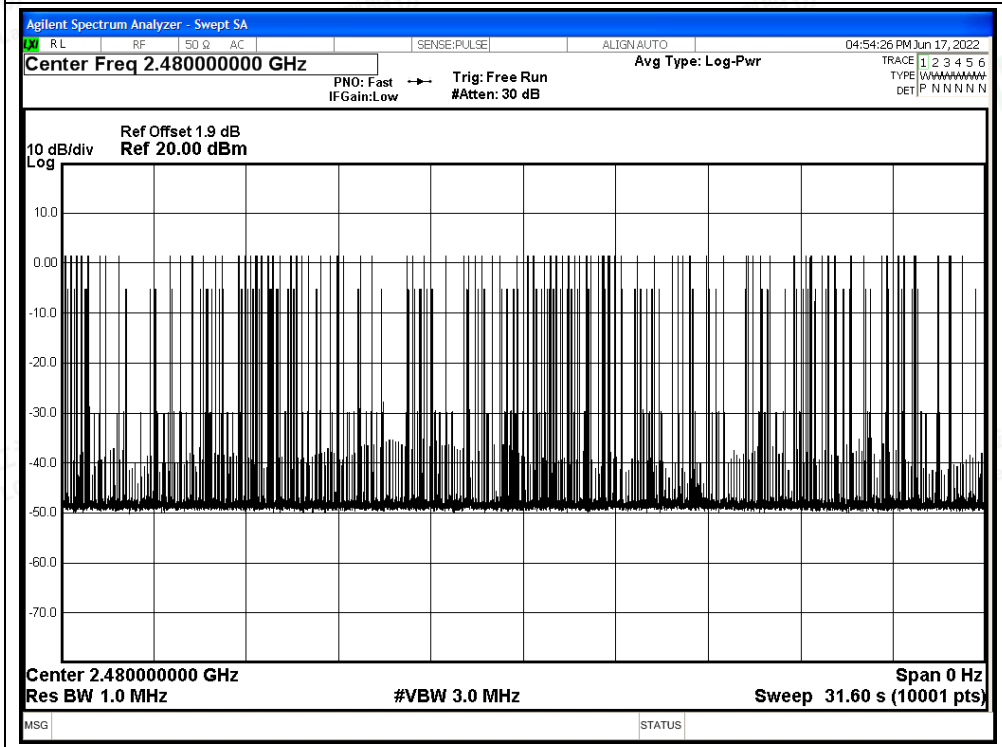




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-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
NVNT	3-DH5	Ant1	79	15	Pass

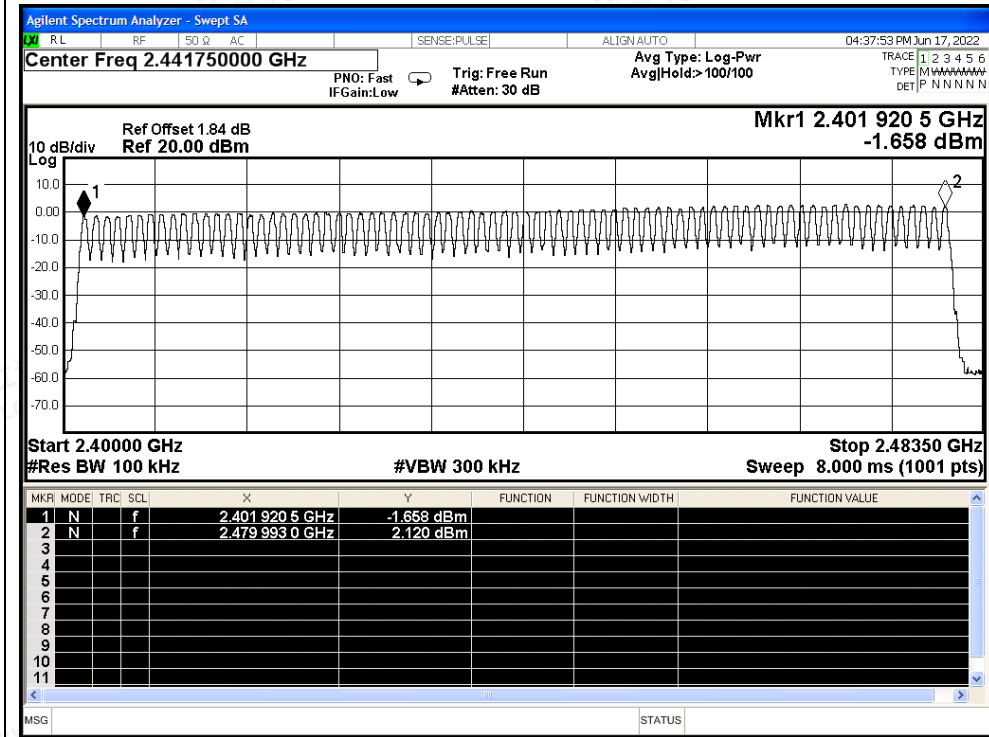


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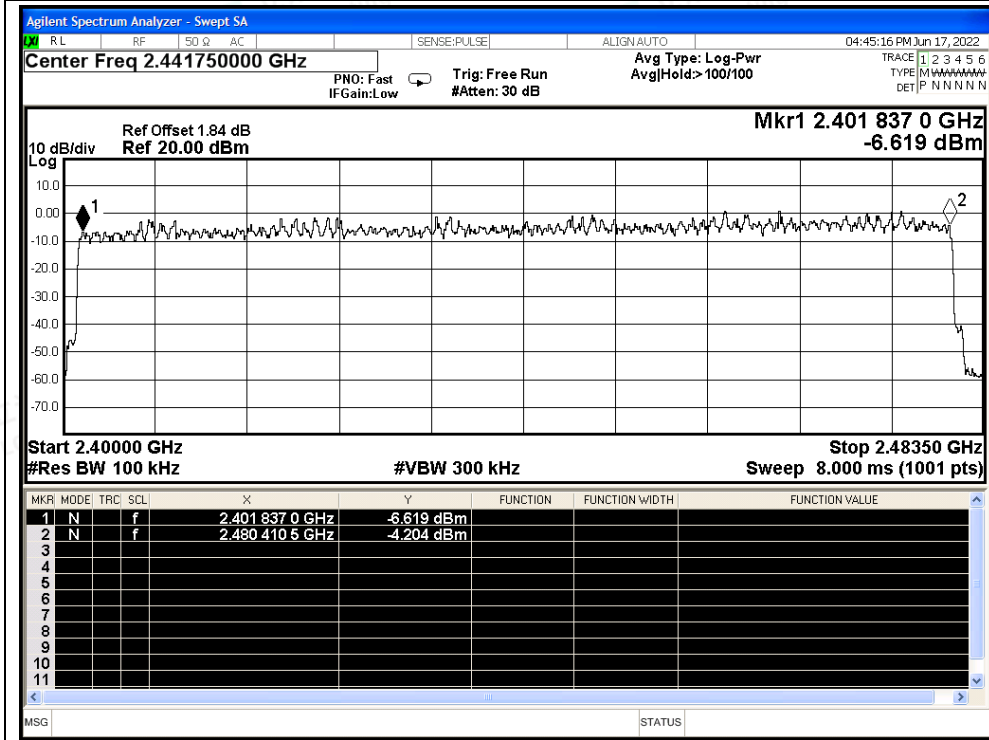


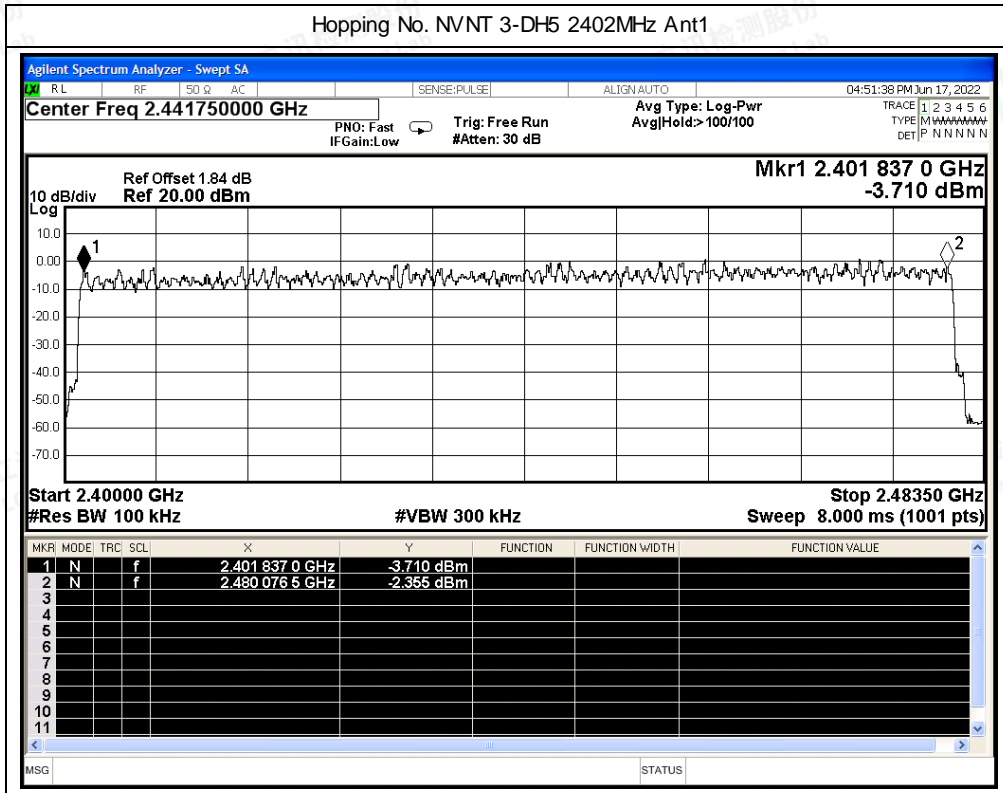
Test Graphs

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	-55.97	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.72	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.06	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.49	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.68	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.61	-20	Pass

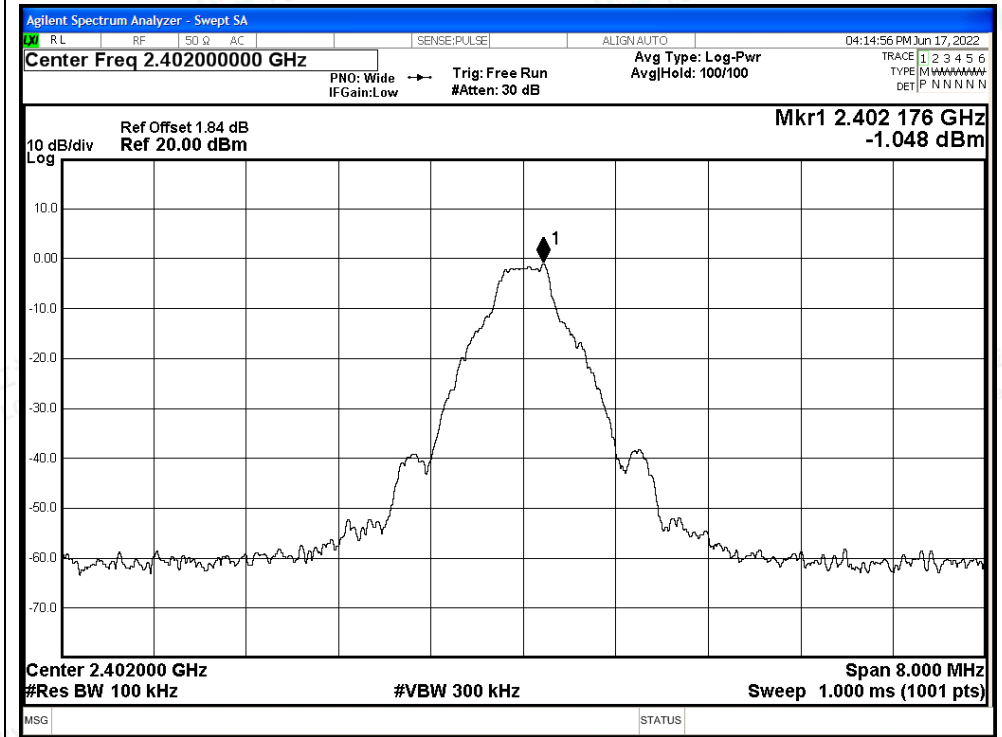


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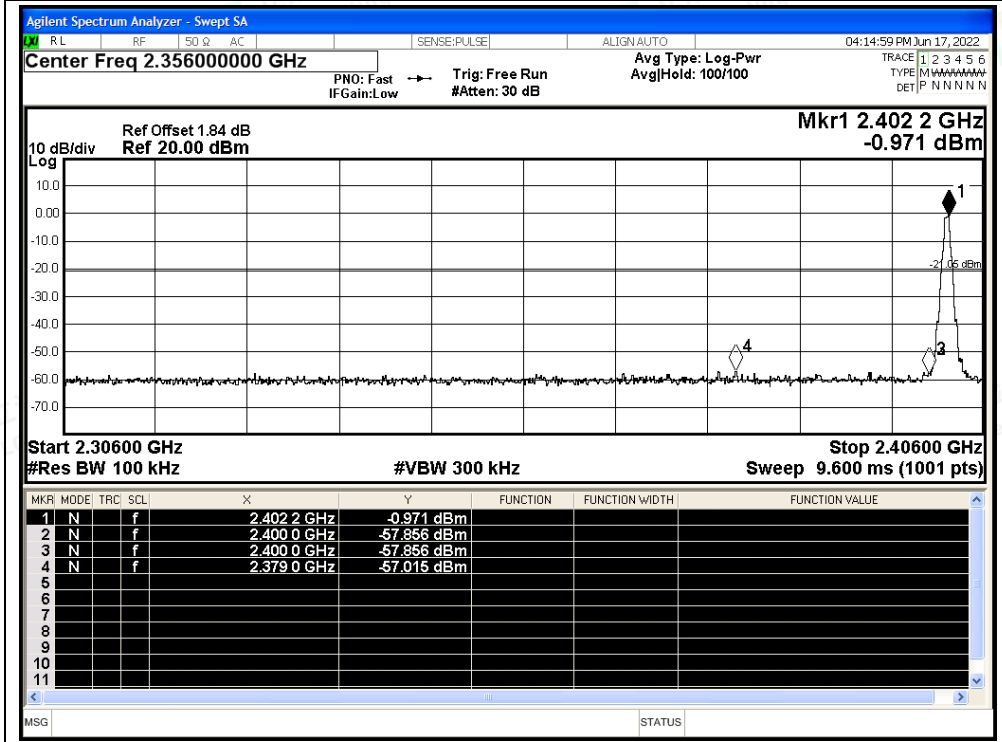


Test Graphs

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

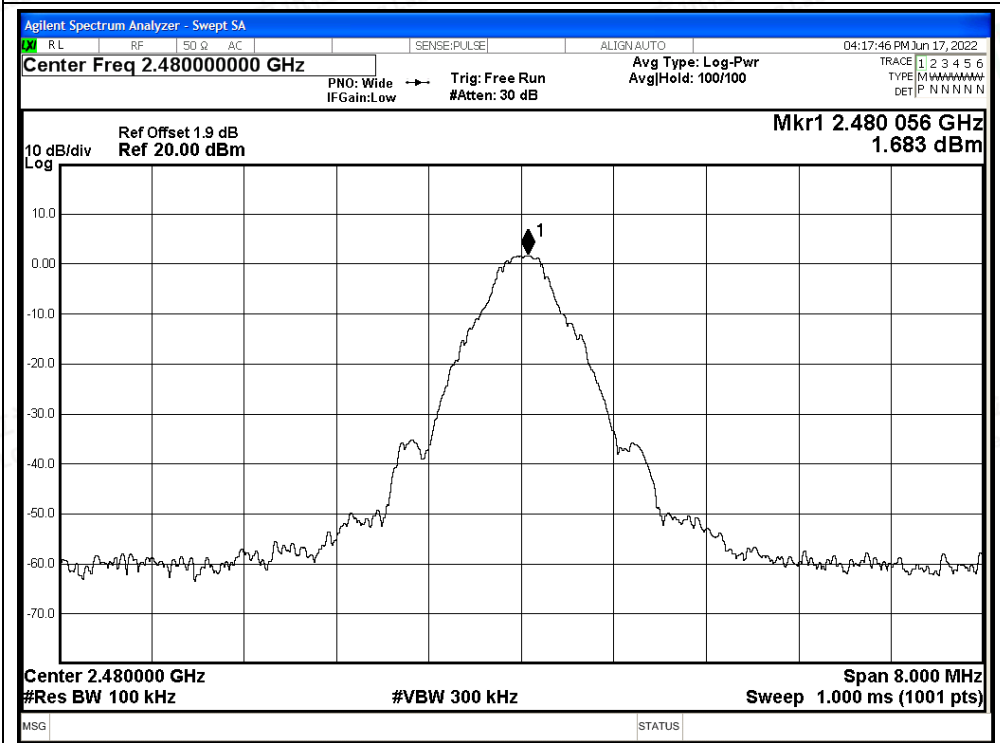


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

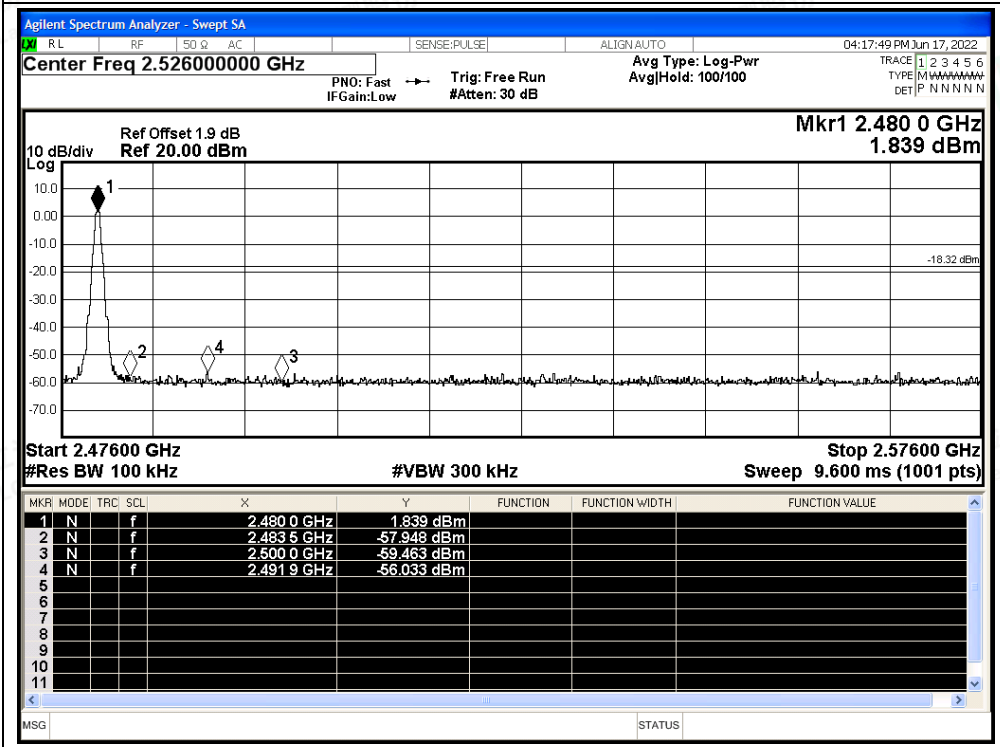


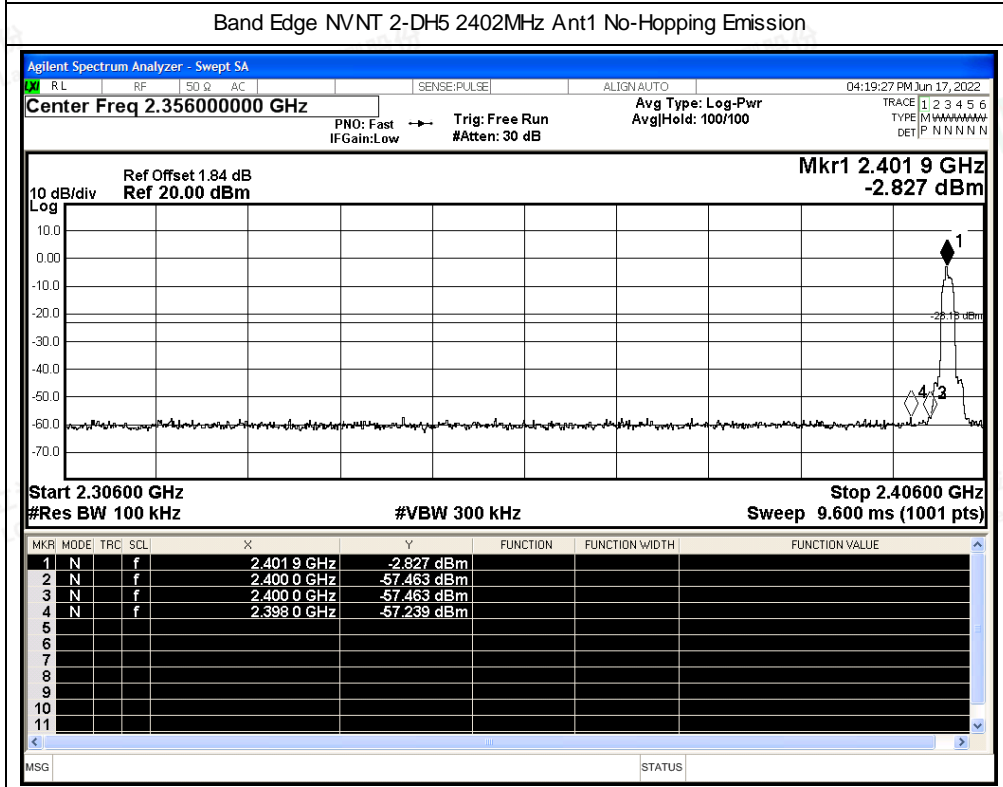
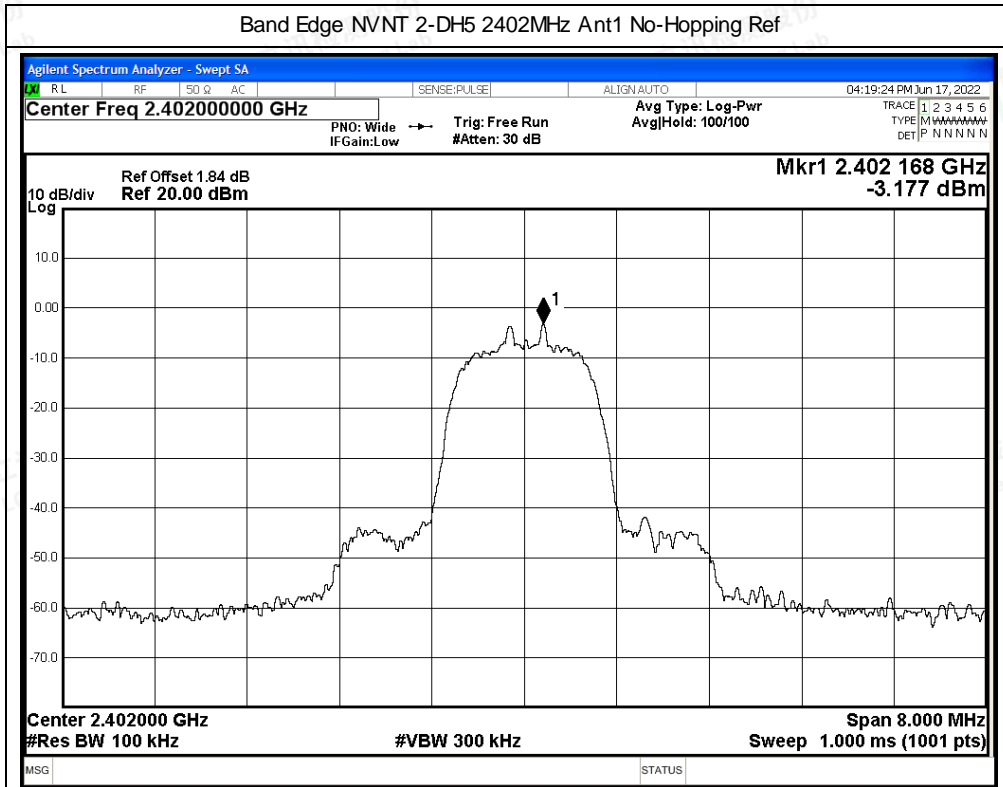


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



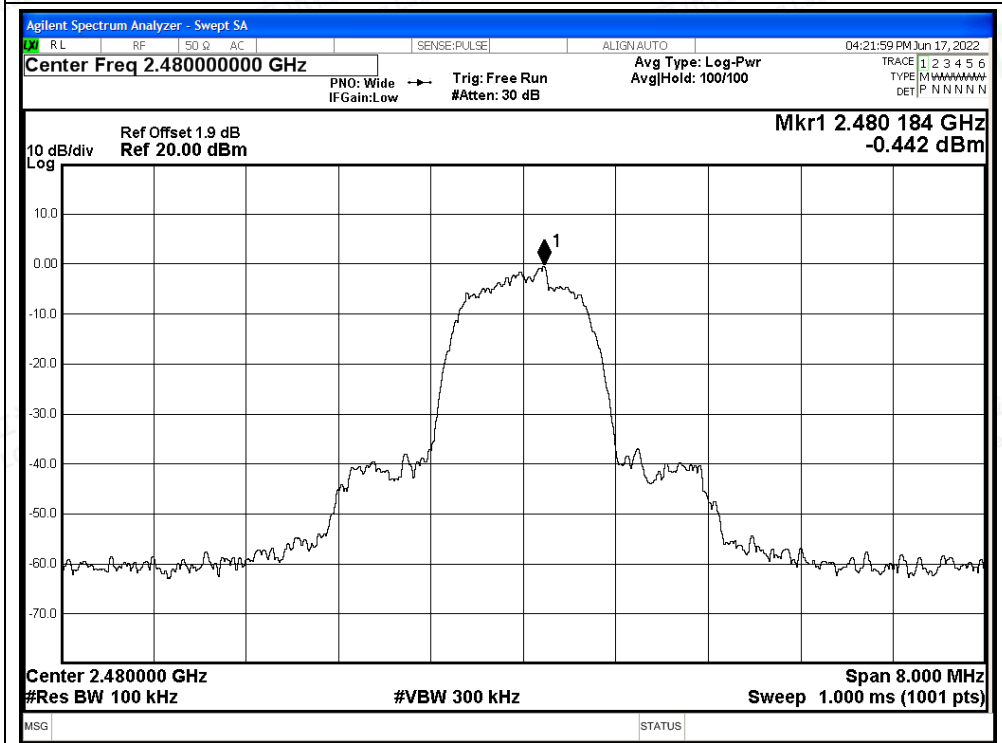
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



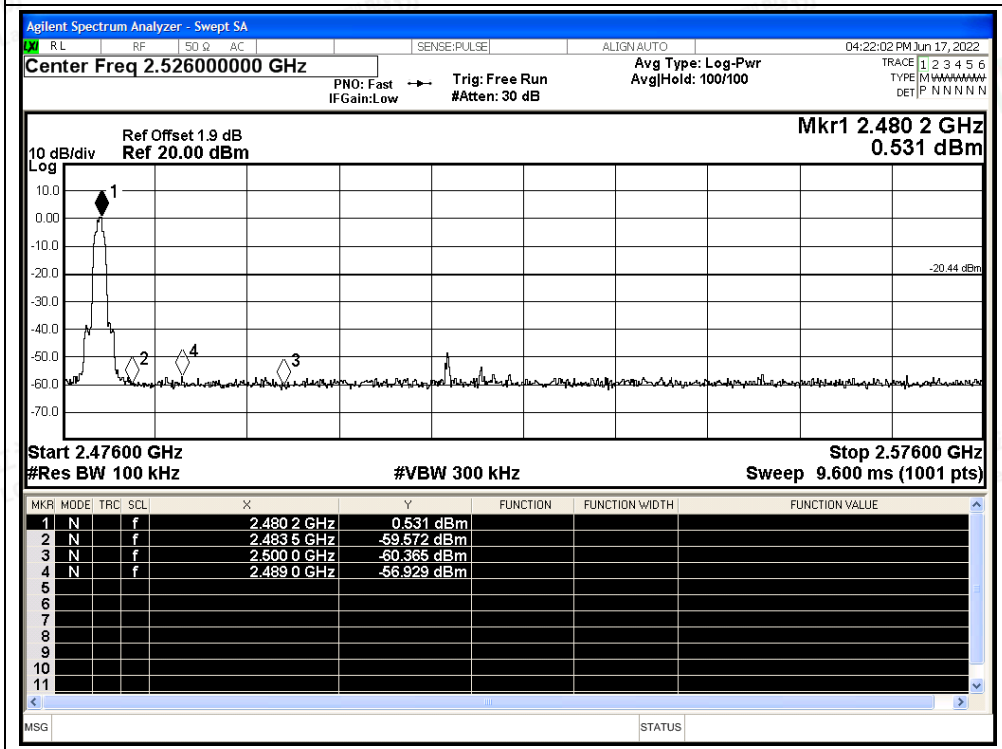


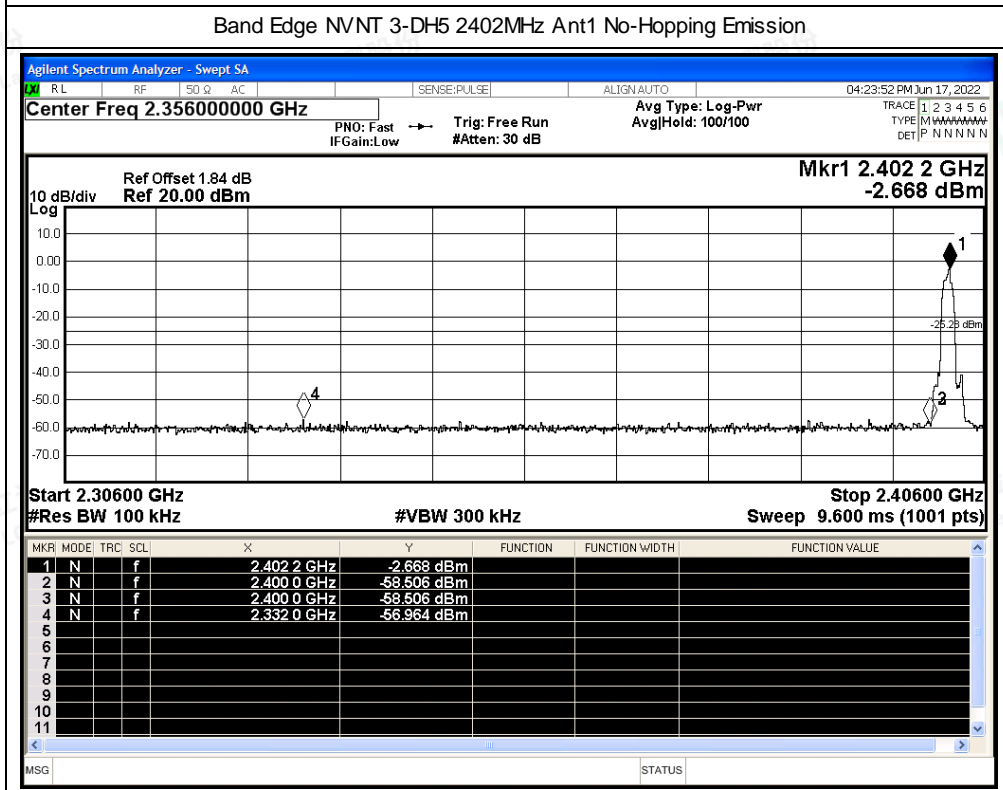
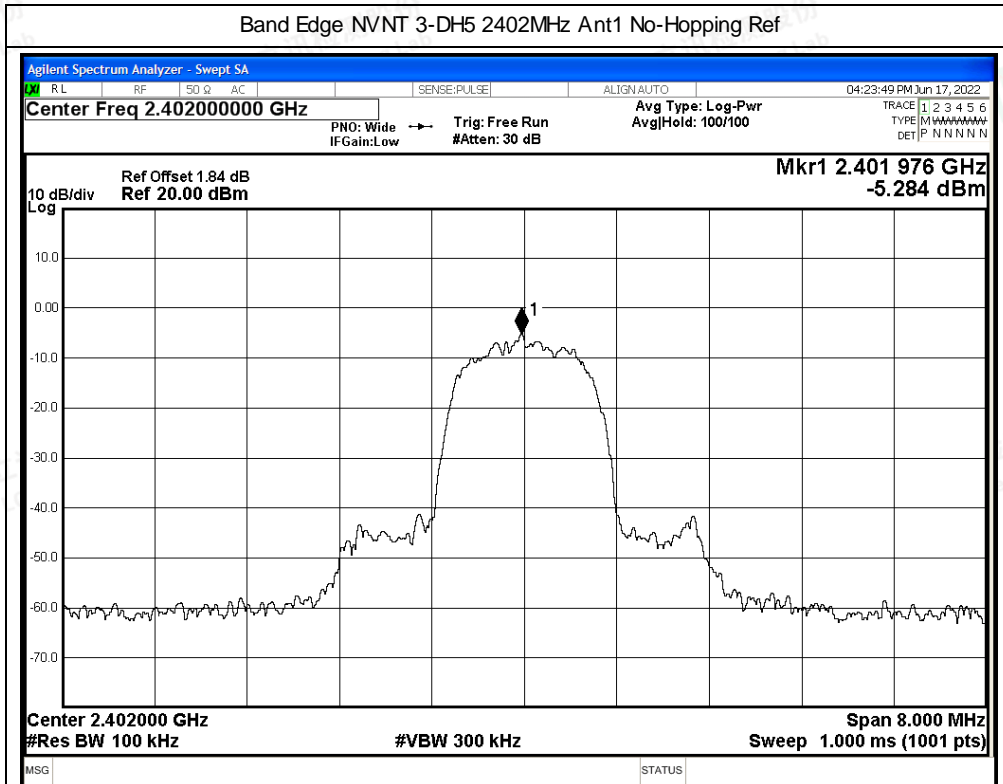


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



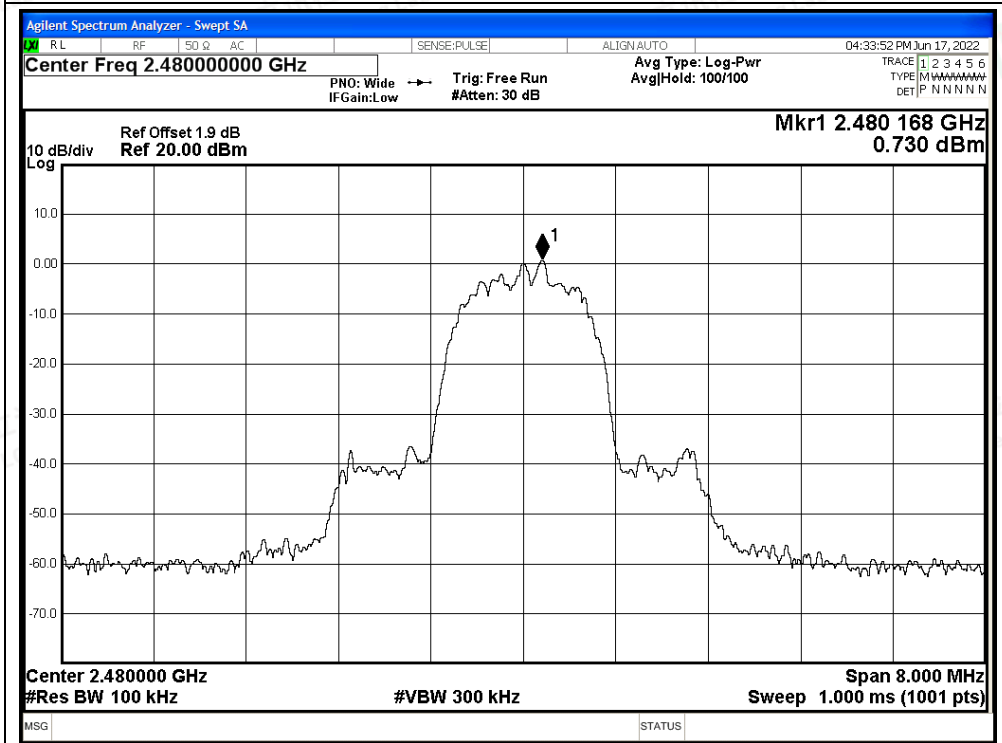
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



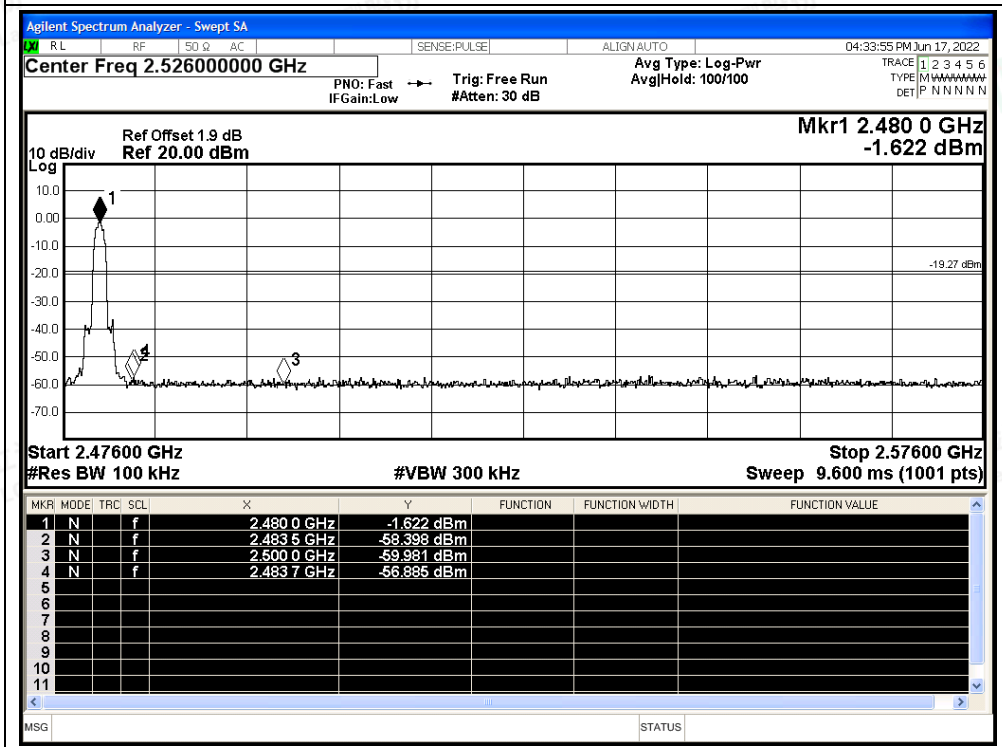




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-54.77	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.1	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.15	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.59	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.09	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.46	-20	Pass

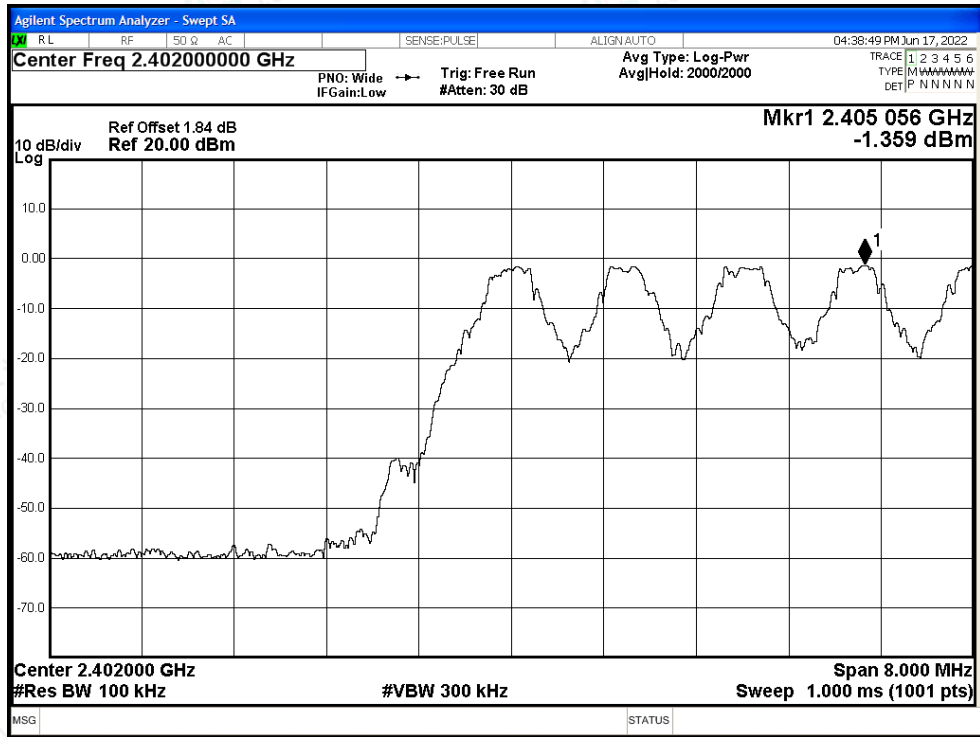


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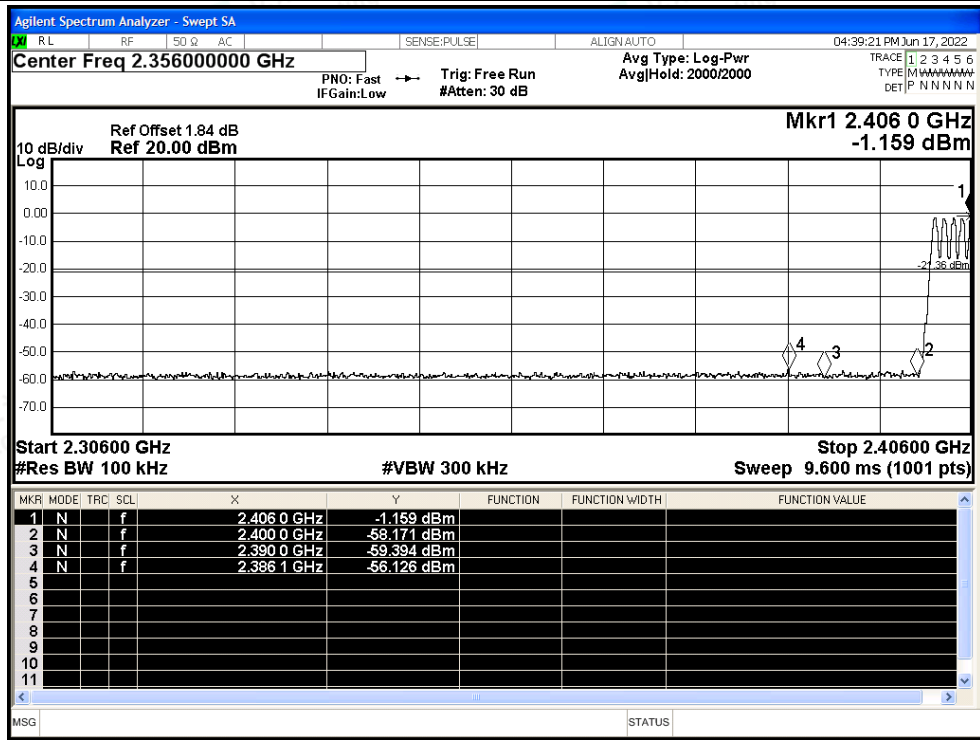


Test Graphs

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

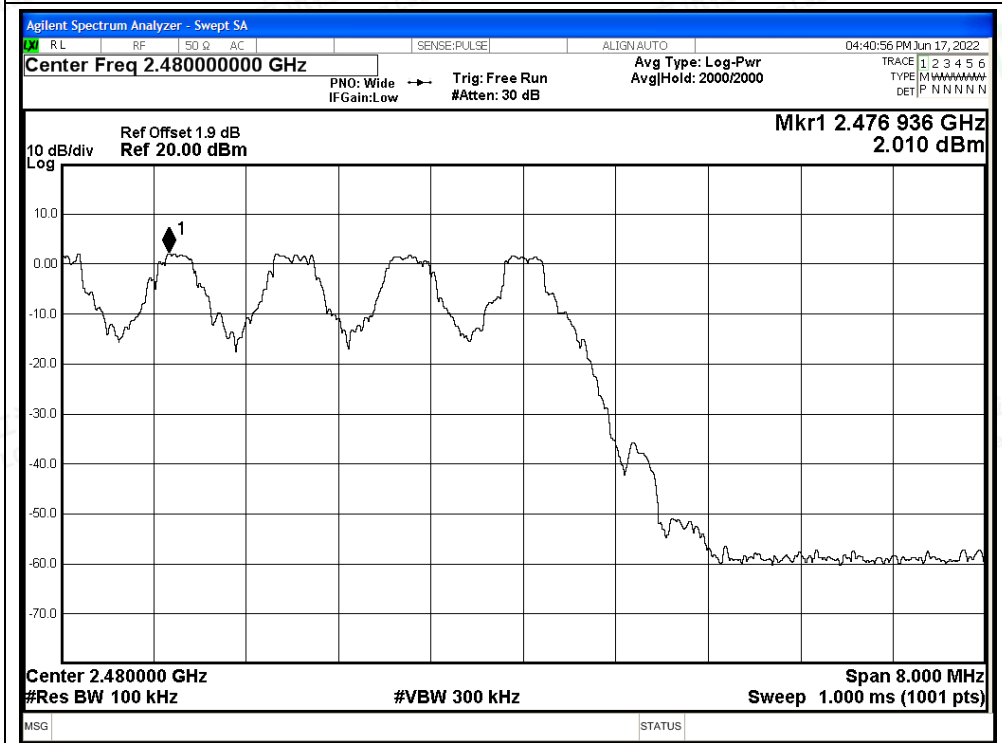


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

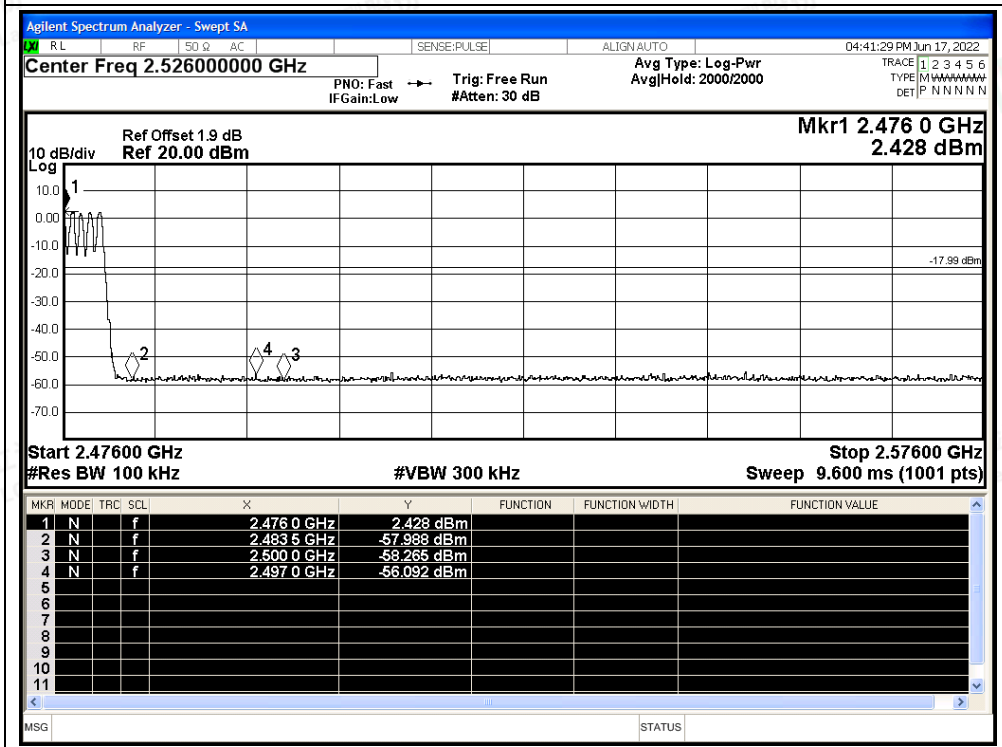


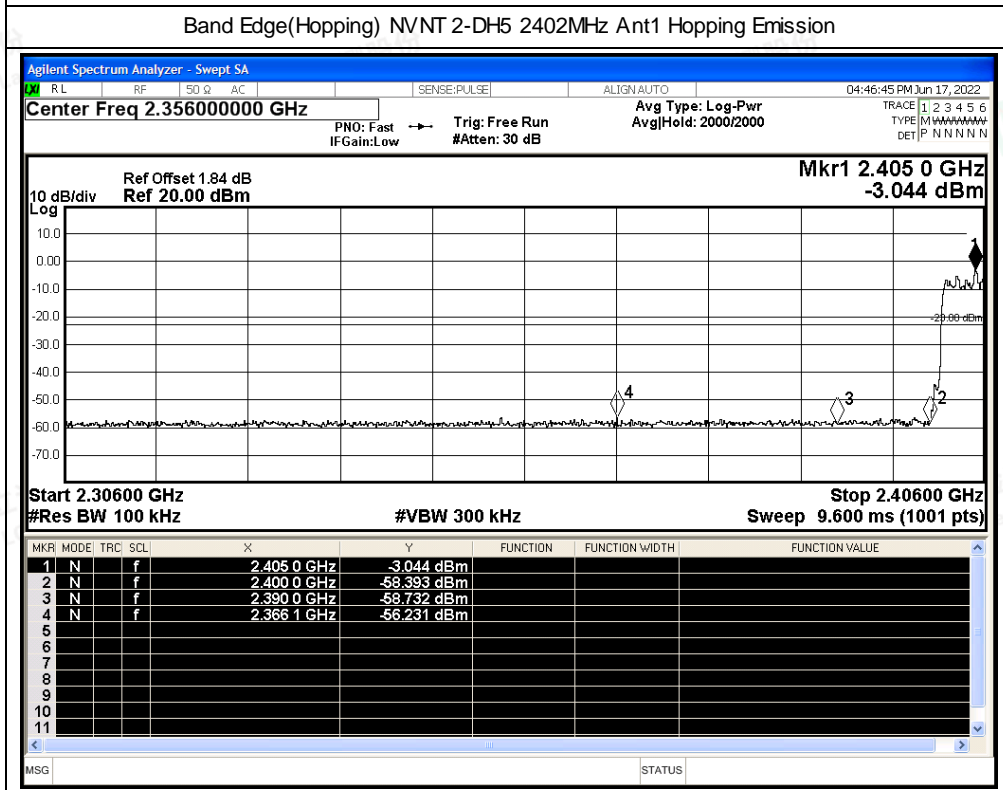
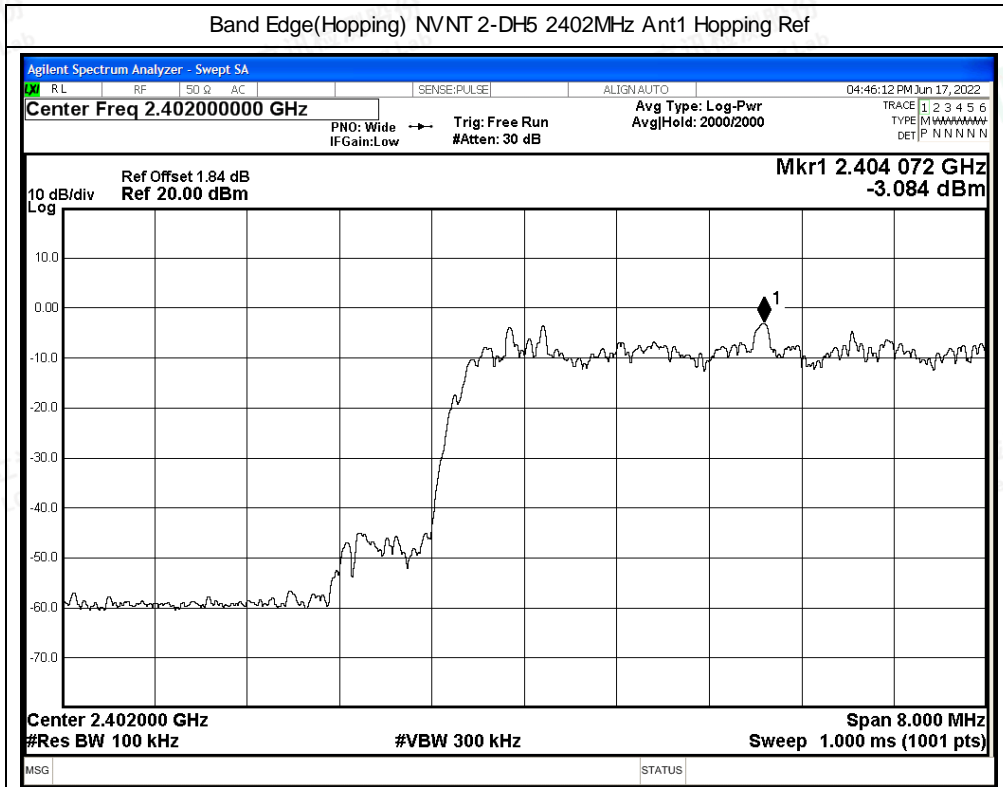


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



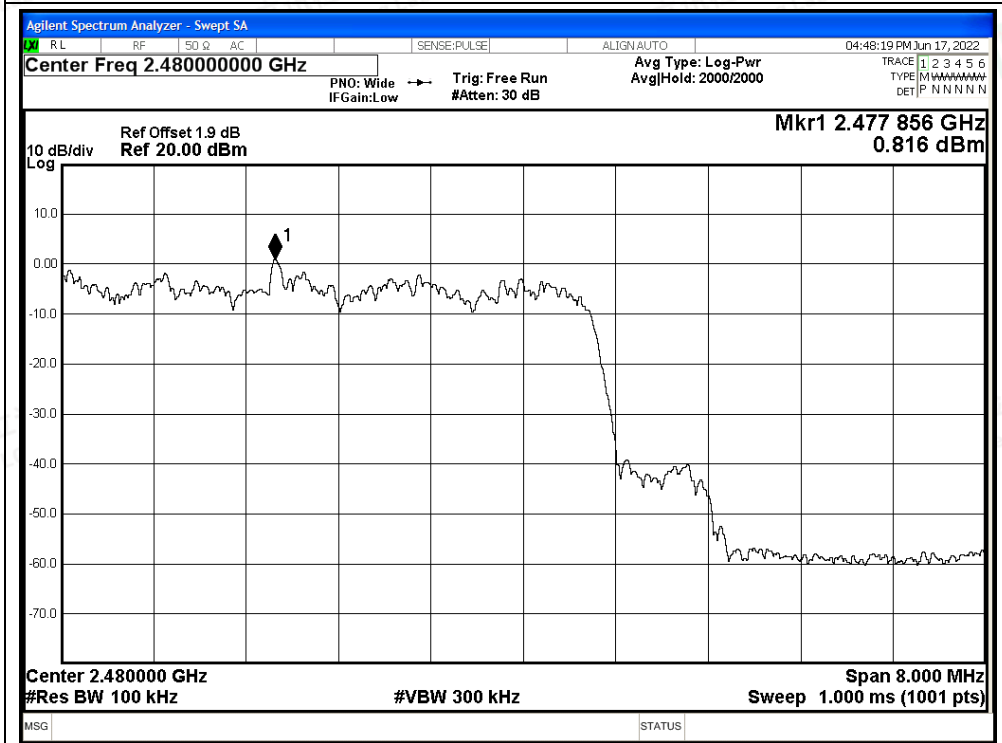
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



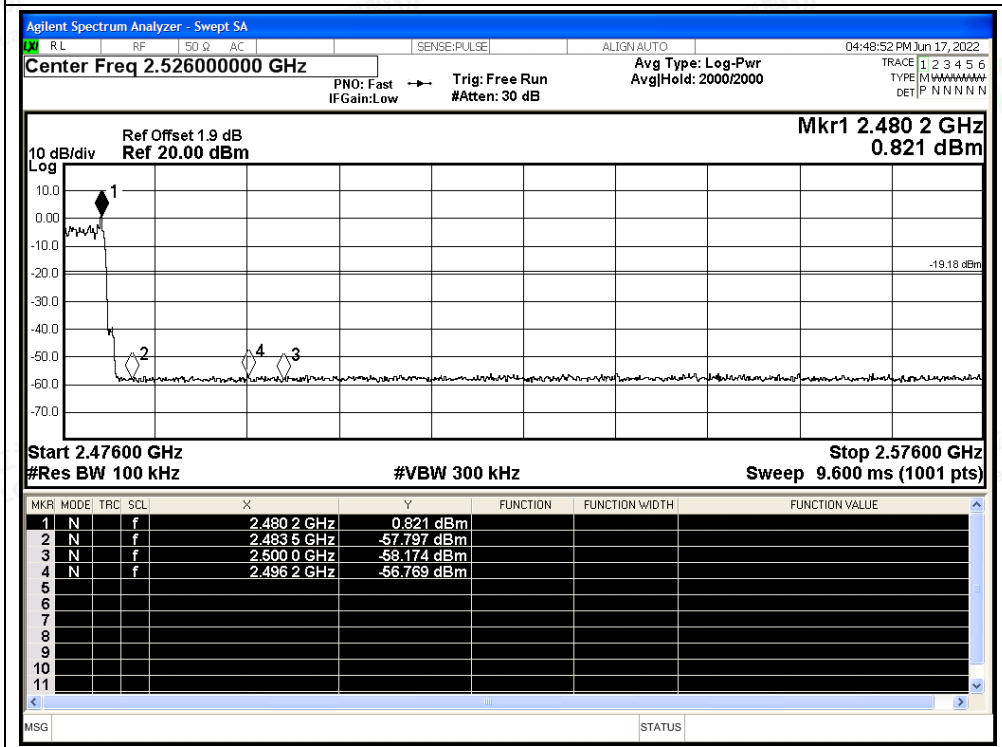


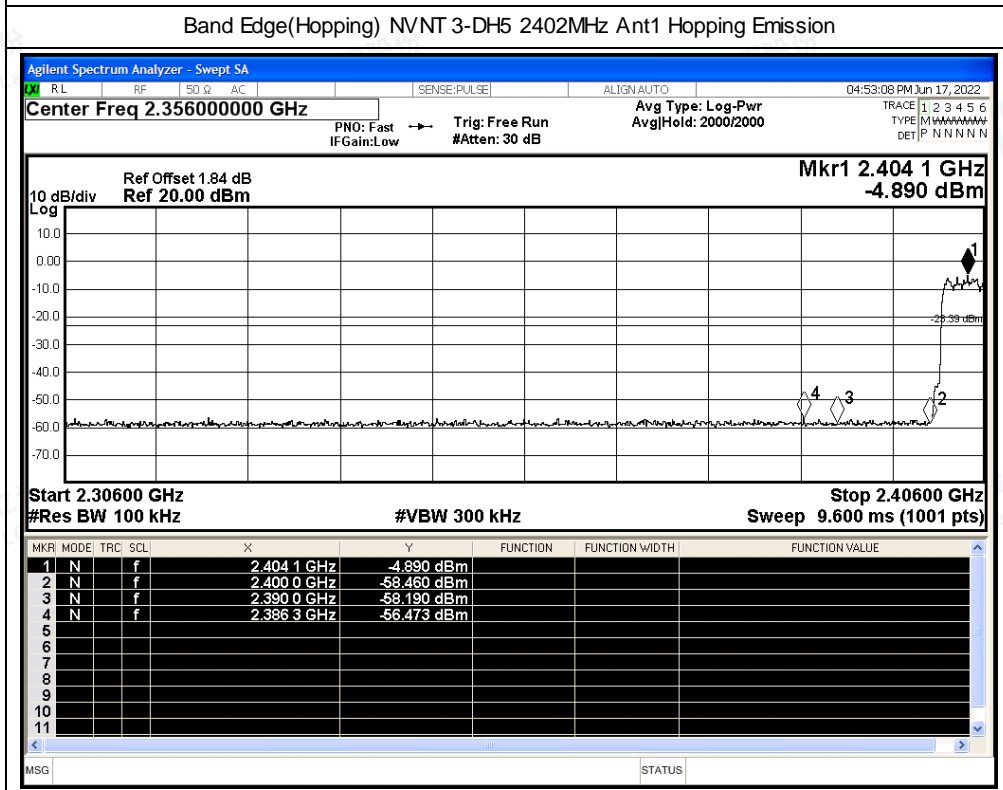
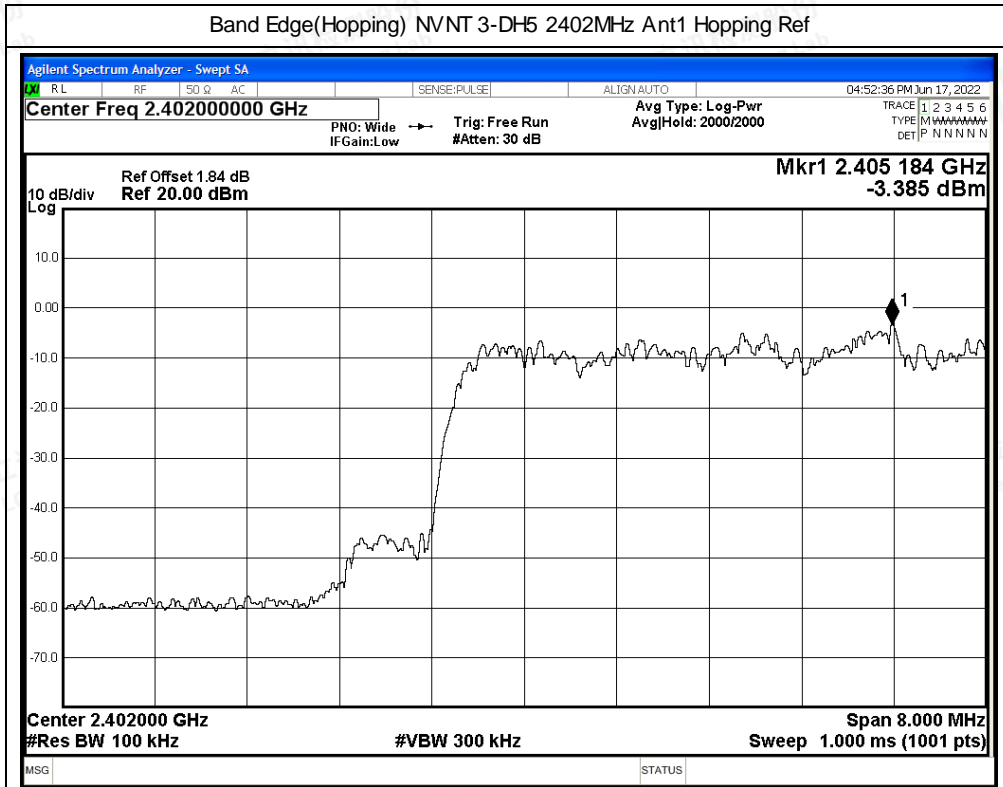


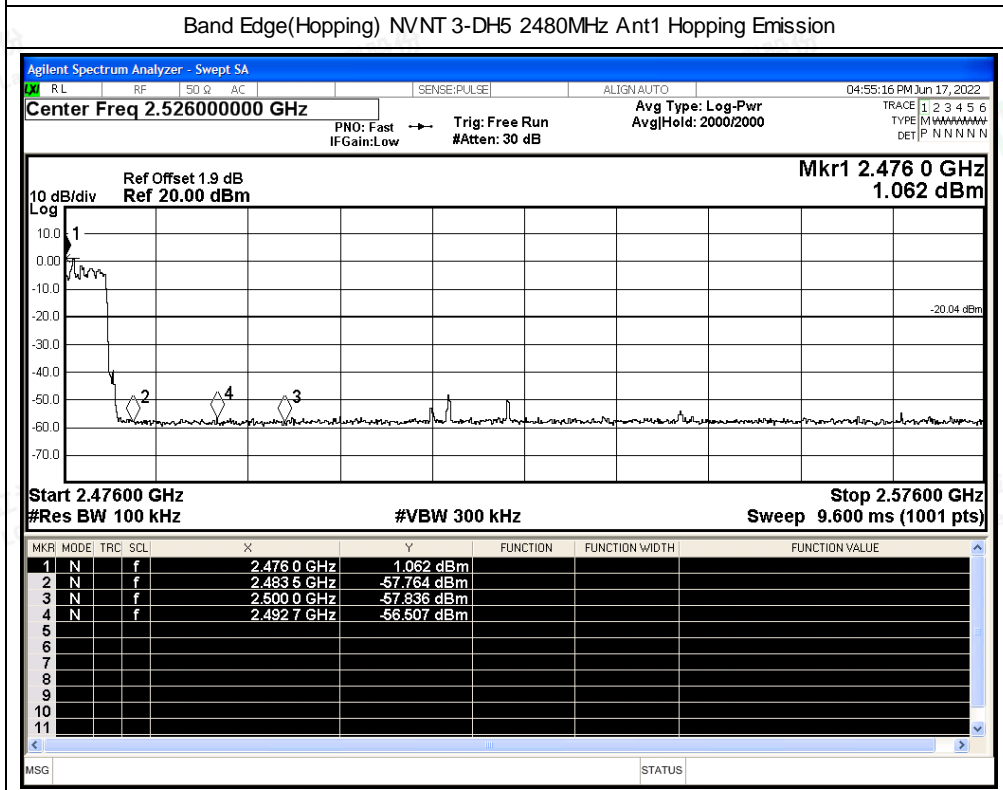
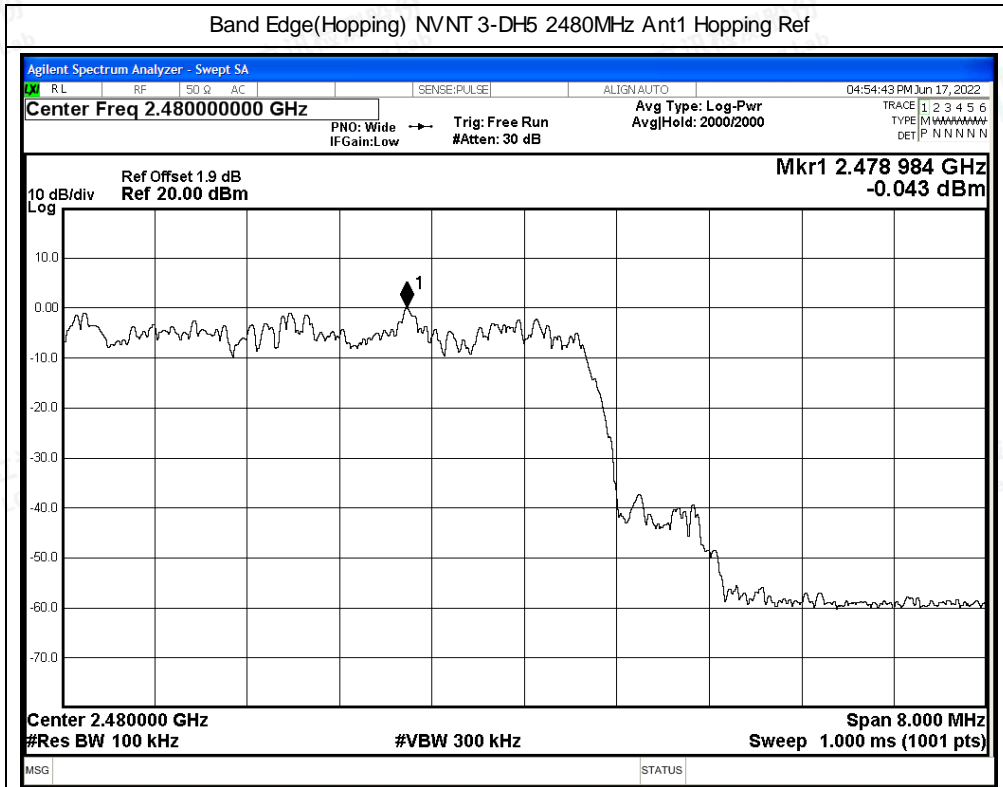
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-54.65	-20	Pass
NVNT	1-DH5	2441	Ant1	-23.02	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.9	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.53	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.55	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.18	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.89	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.68	-20	Pass
NVNT	3-DH5	2480	Ant1	-48.59	-20	Pass

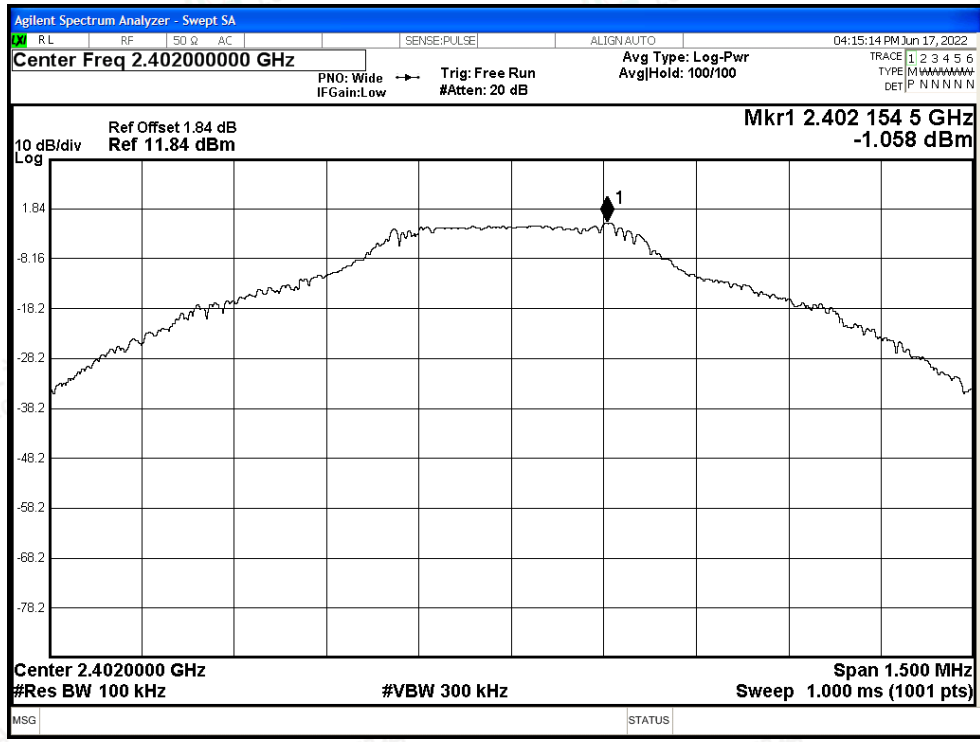


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Tel: +(86) 0755-82591330 | E-mail: w ebmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

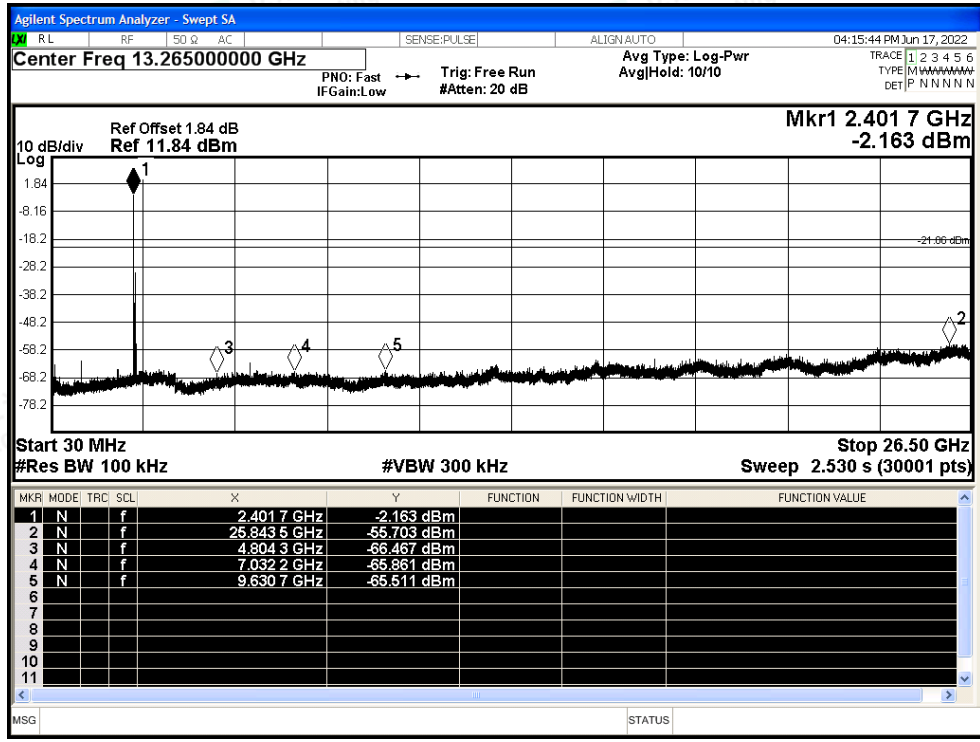


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

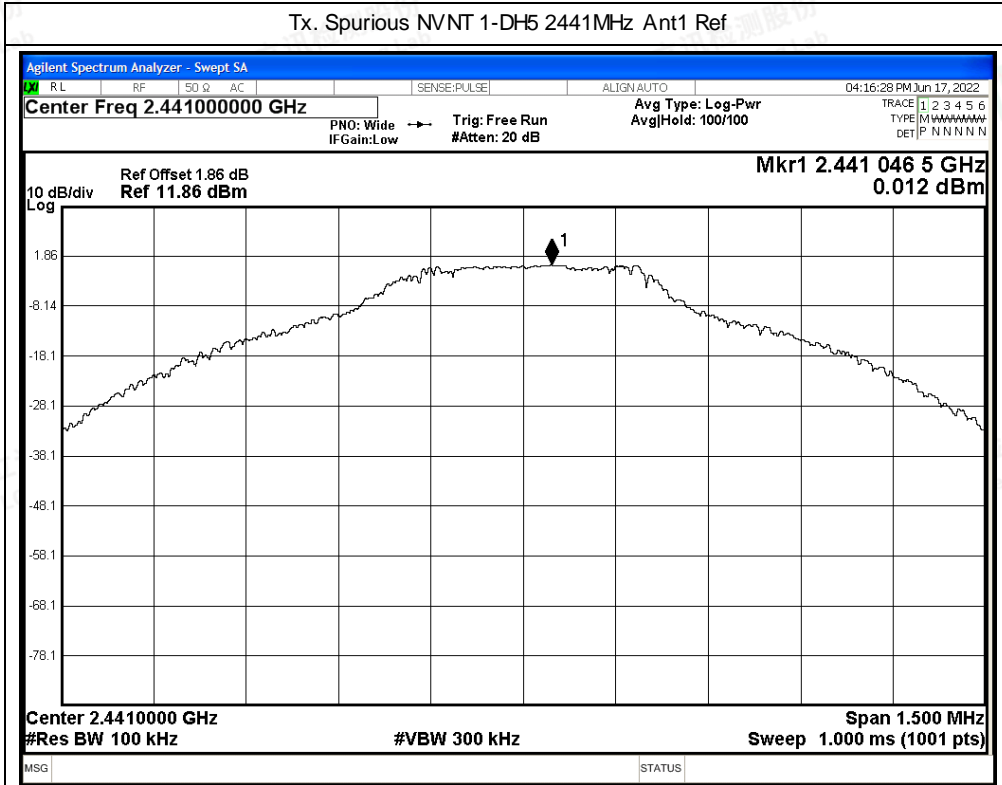


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

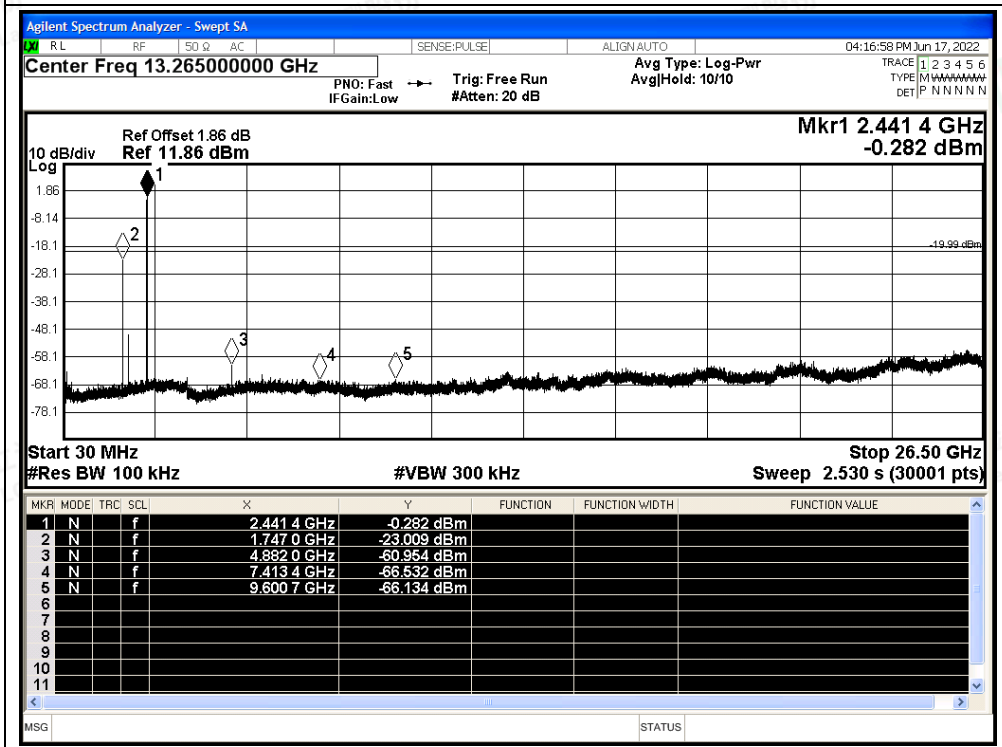




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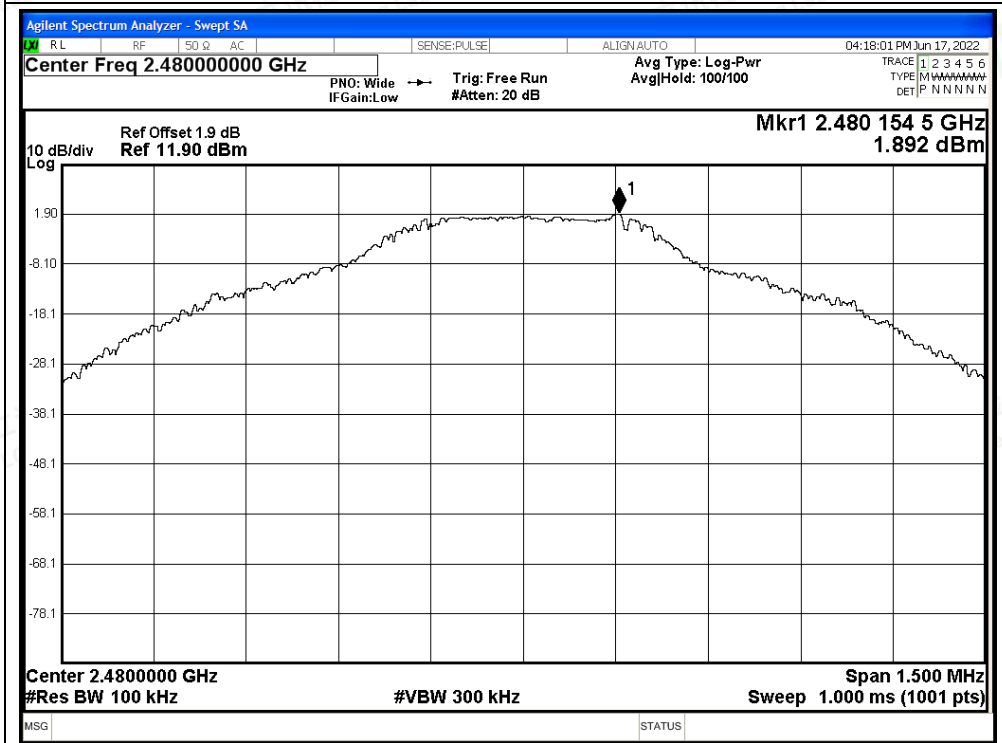


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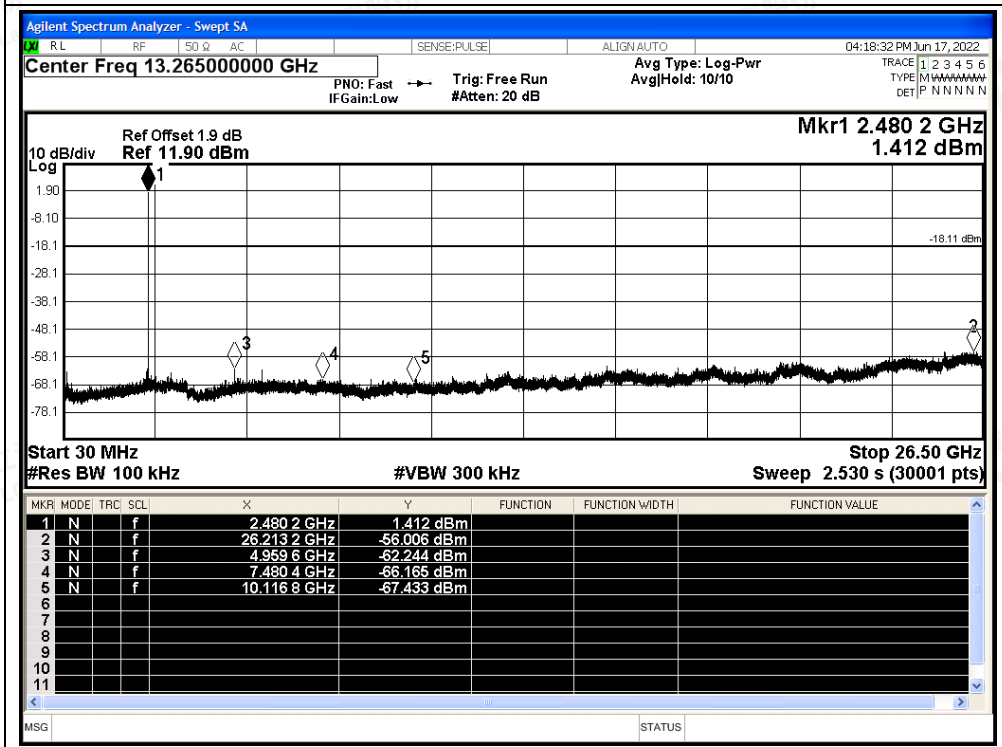




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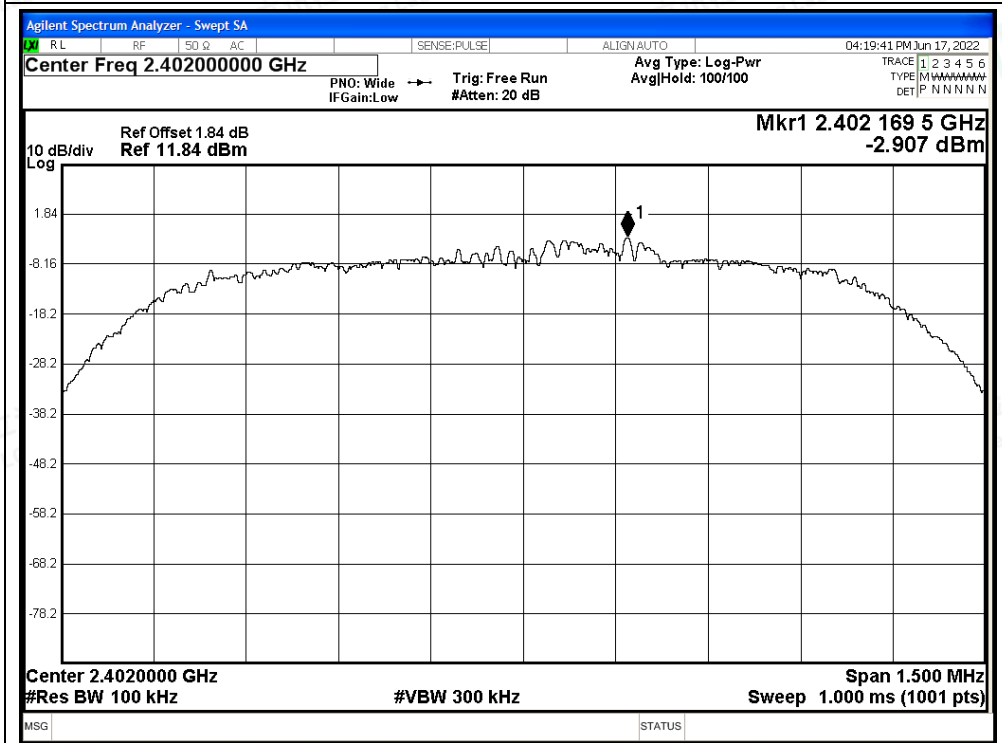


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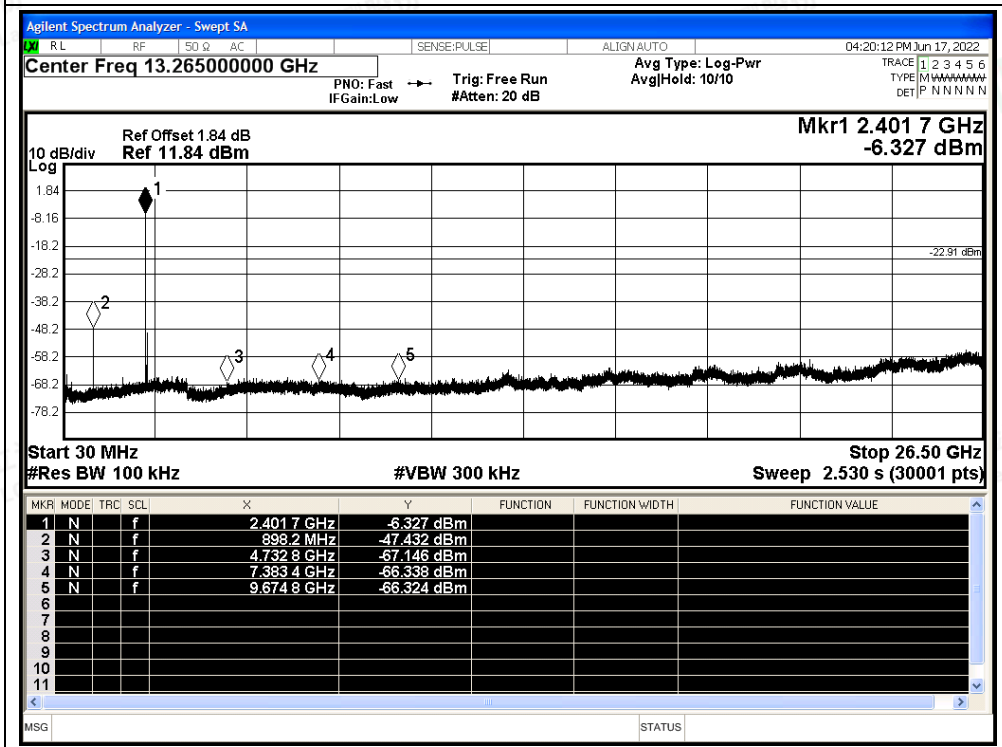




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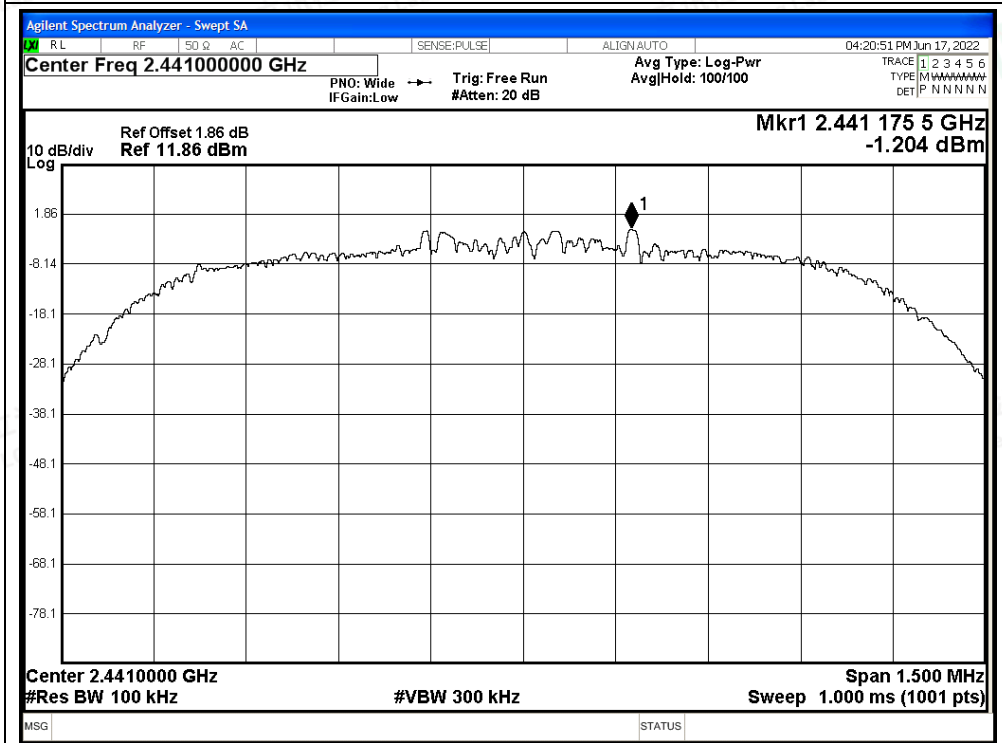


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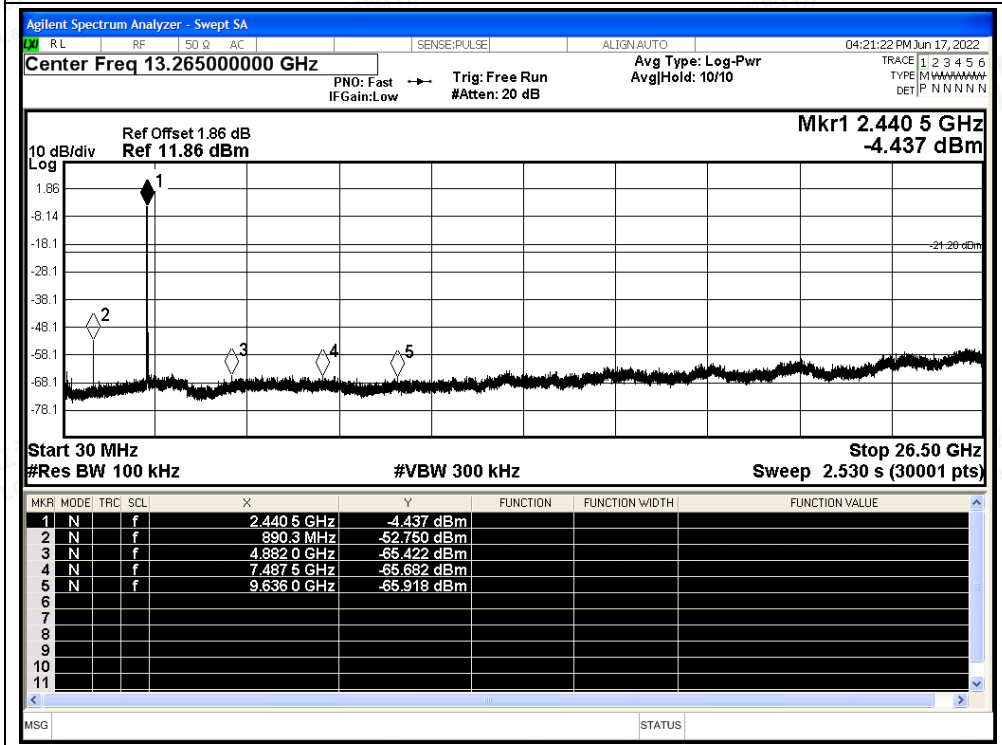




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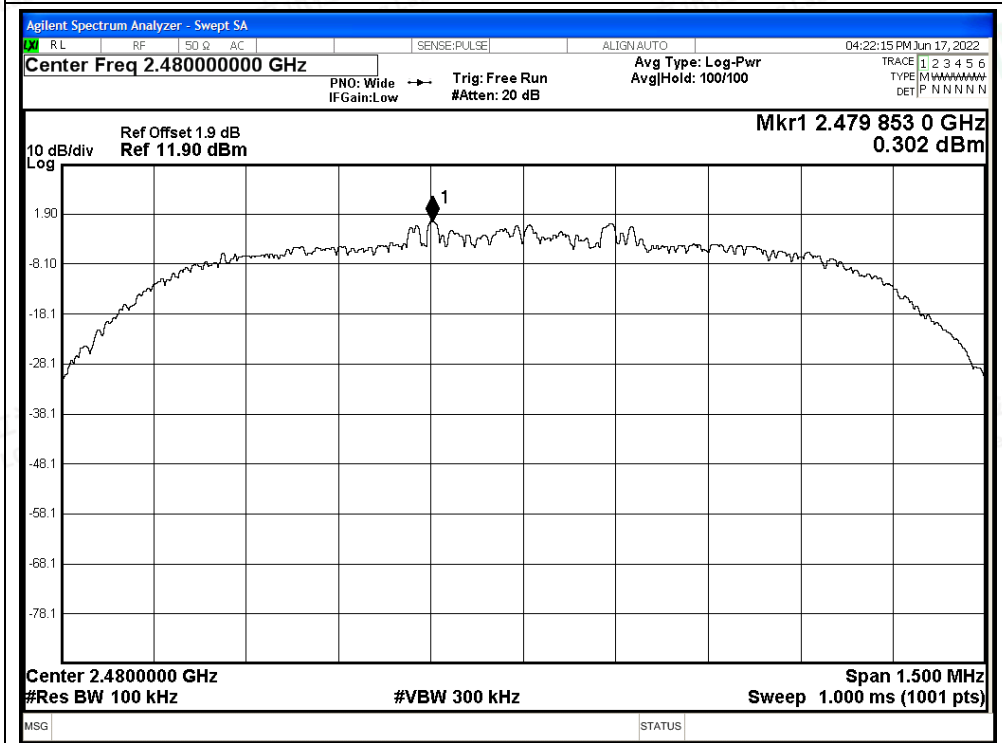


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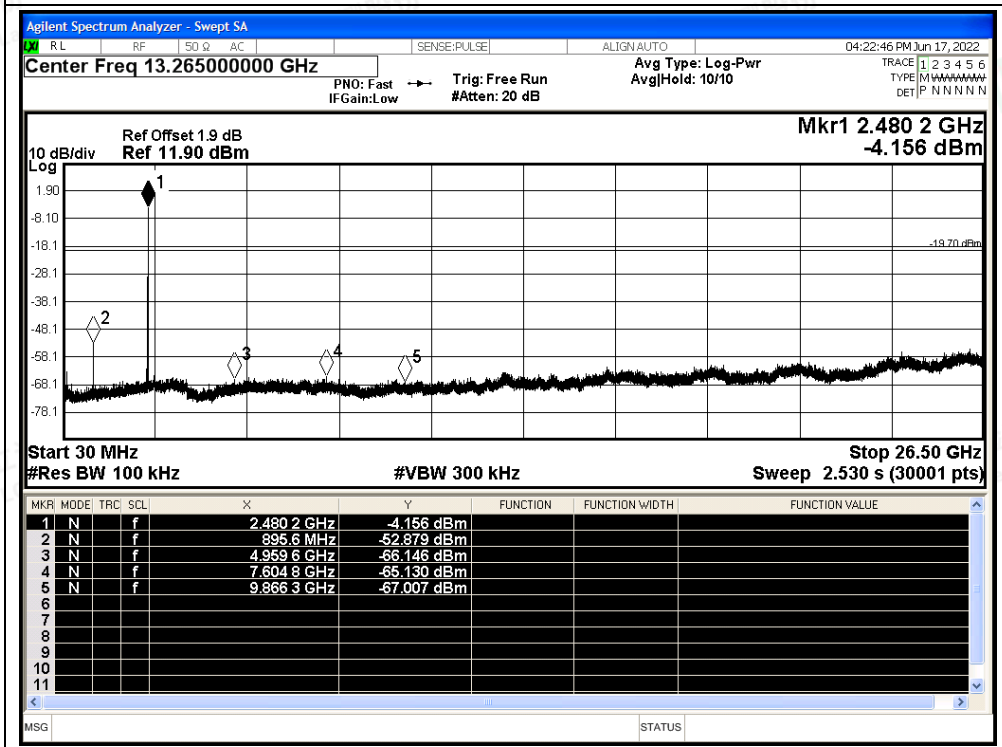




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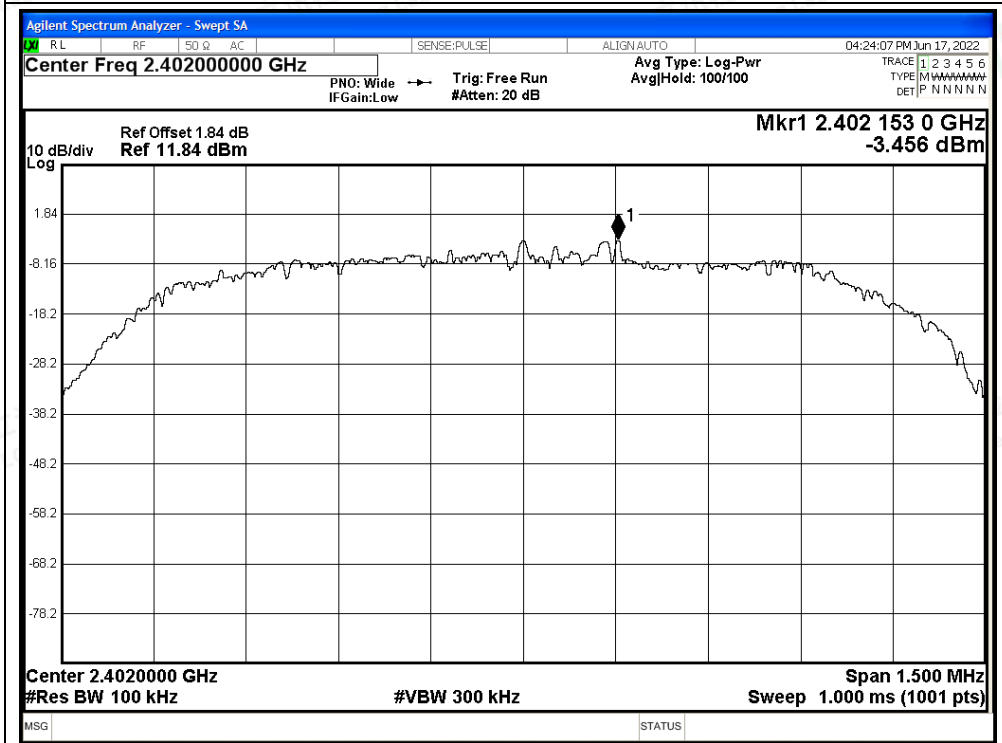


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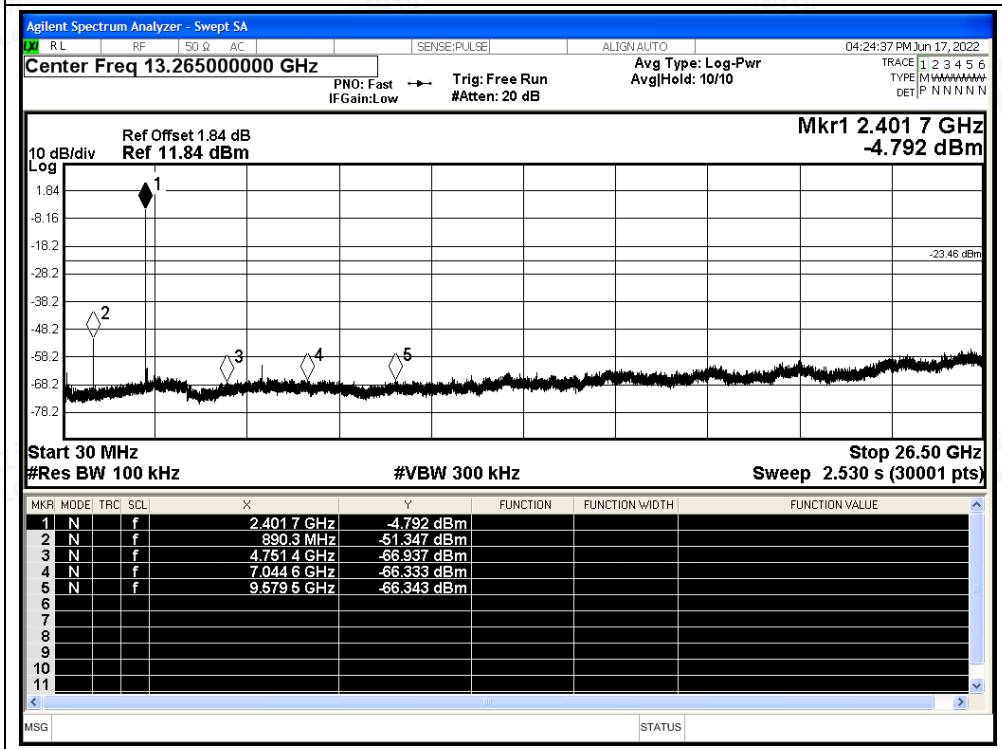




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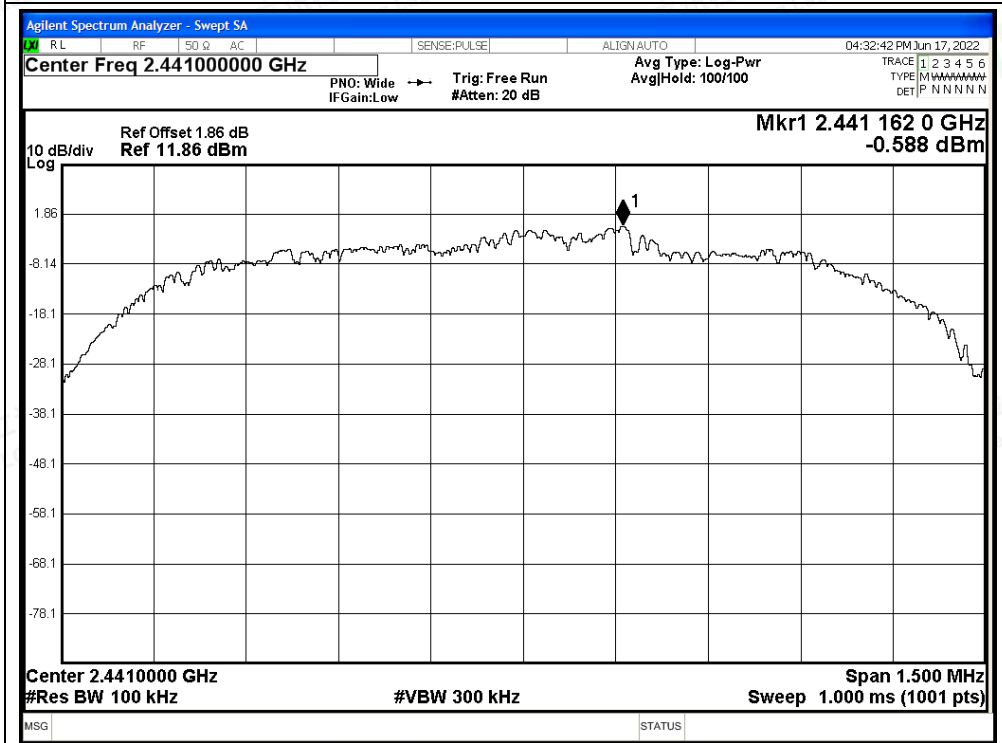


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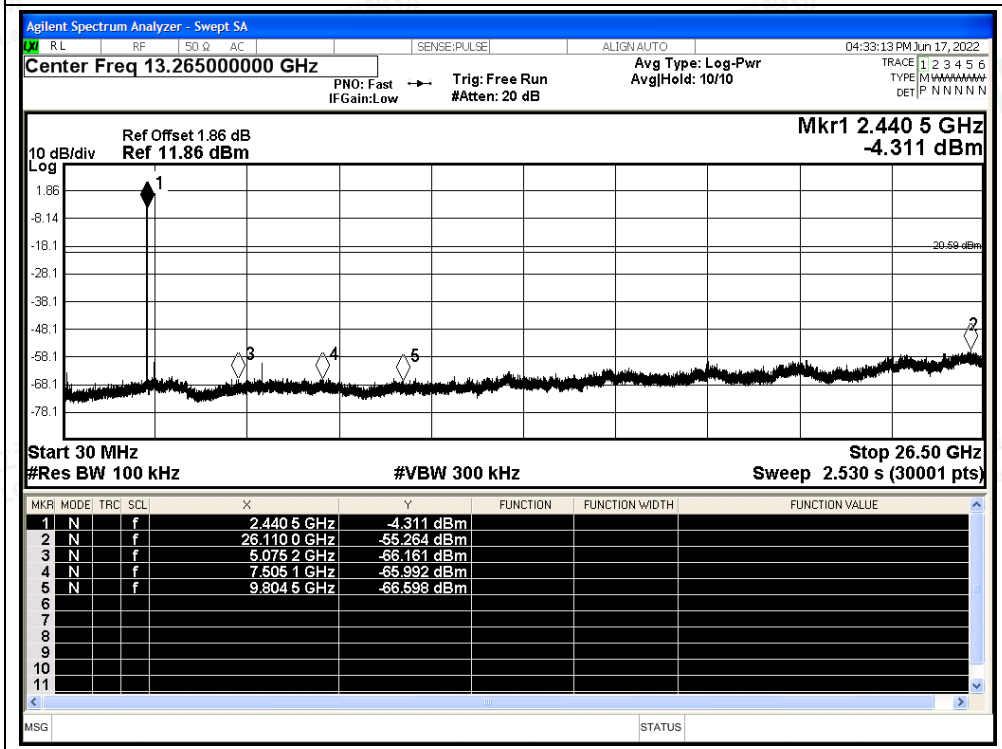




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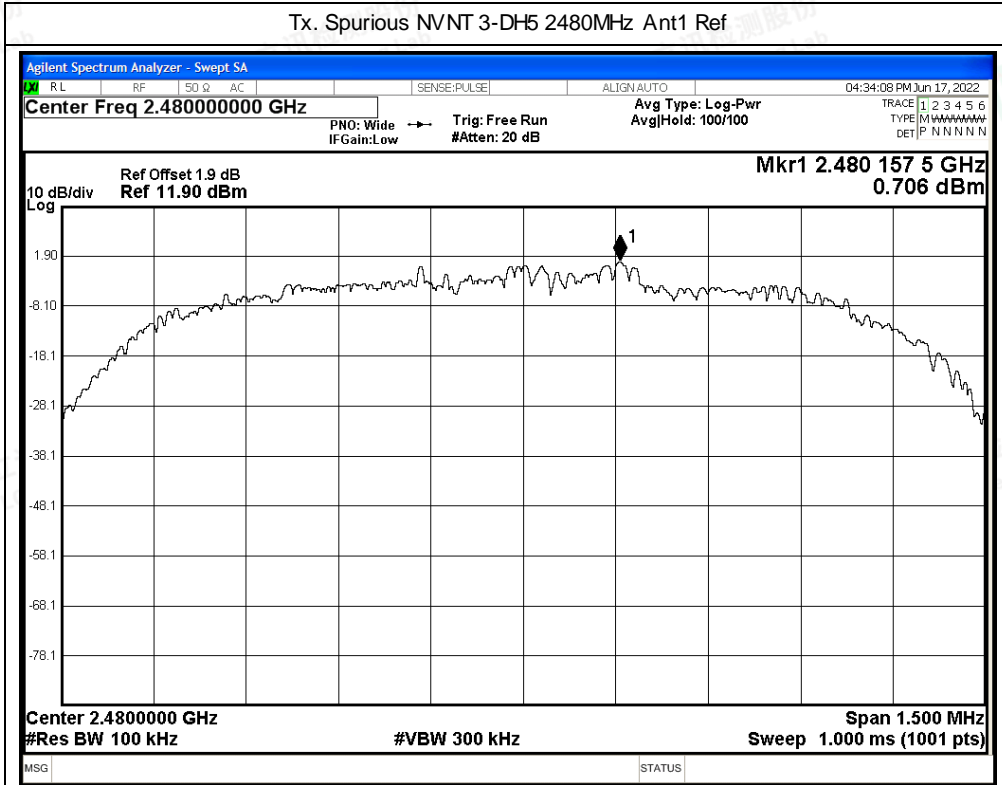


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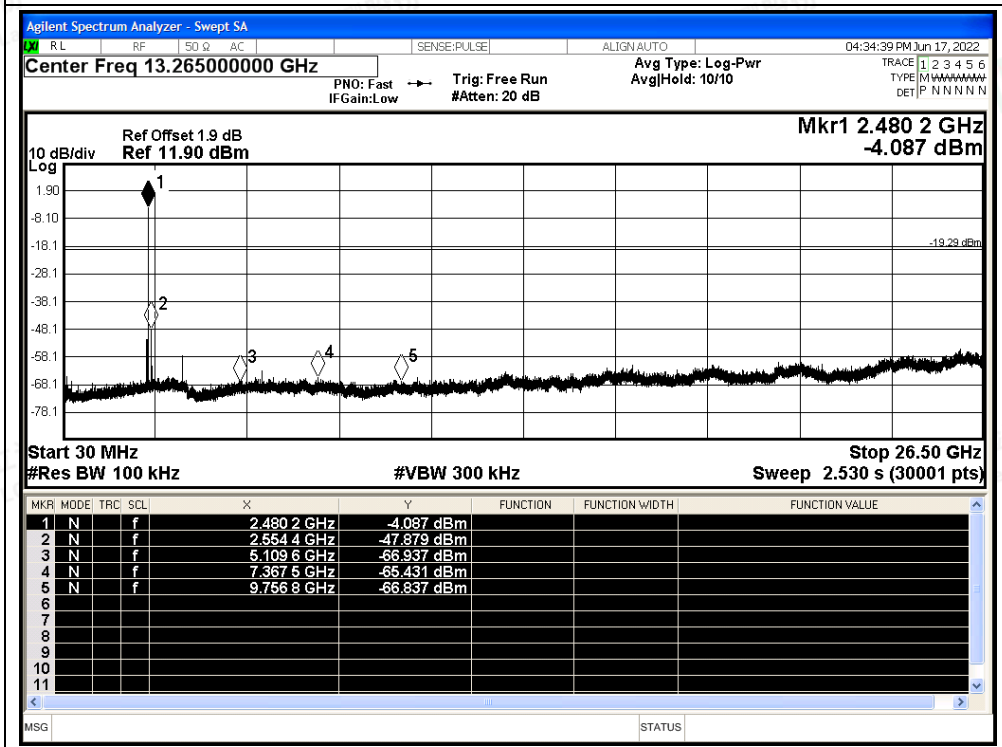




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-49.65	2	47.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.69	2	36.57	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2343.408	-47.76	2	49.5	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.488	-60.23	2	37.03	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.64	2	45.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.34	2	36.92	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.71	2	48.55	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.54	2	37.72	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.312	-46.87	2	50.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.992	-59.46	2	37.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.96	2	47.3	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.99	2	37.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.92	2	45.34	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.71	2	36.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2314.896	-47.65	2	49.61	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.776	-60.14	2	37.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.41	2	47.85	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.44	2	36.82	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.7	2	46.56	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.51	2	37.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.84	-47.46	2	49.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-59.41	2	37.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.62	2	46.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.93	2	37.33	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.57	2	46.69	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.75	2	36.51	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.592	-46.69	2	50.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.68	-60.2	2	37.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.75	2	47.51	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.31	2	36.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.25	2	47.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.55	2	37.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.544	-47.36	2	49.9	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.28	-59.47	2	37.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.41	2	46.85	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.03	2	37.23	Average	54	Pass

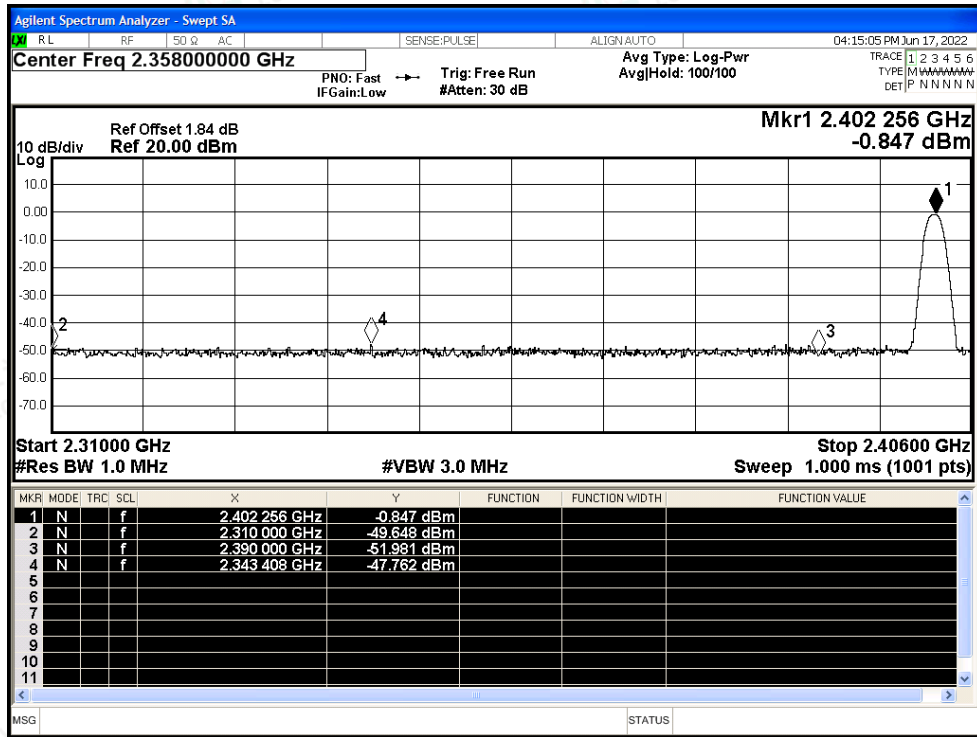


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 Scan code to check authenticity

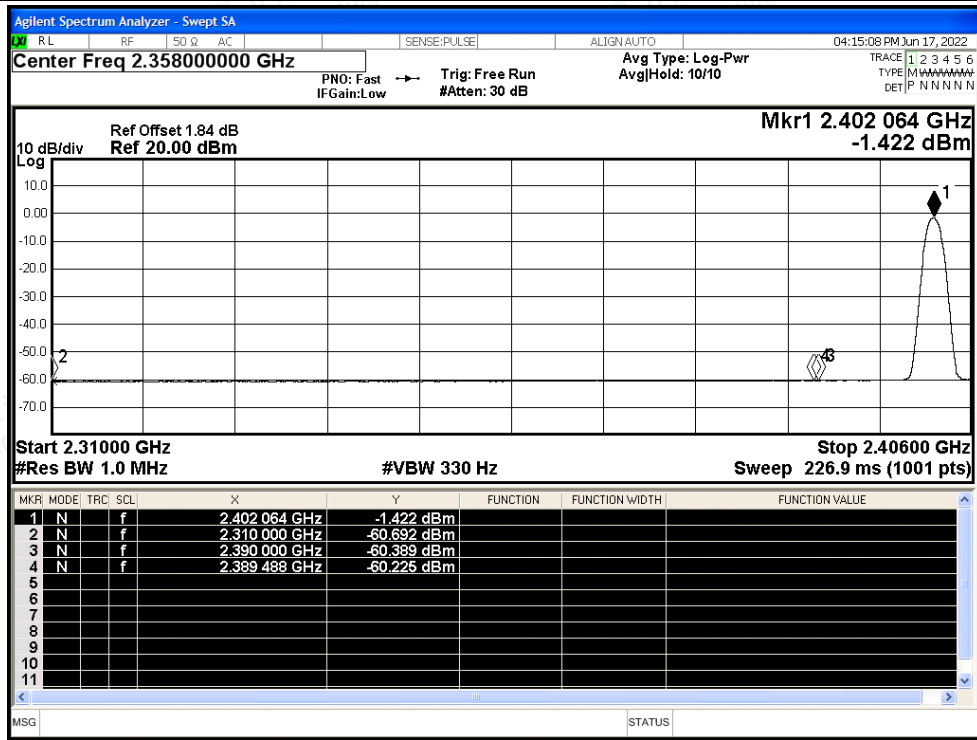


Test Graphs

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

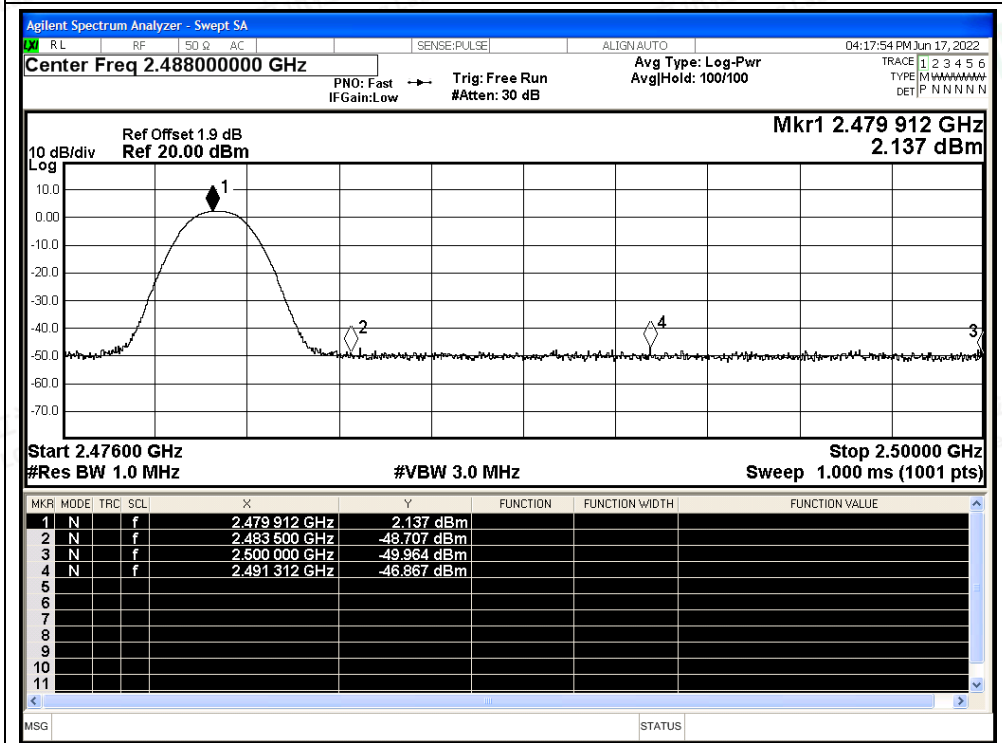


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

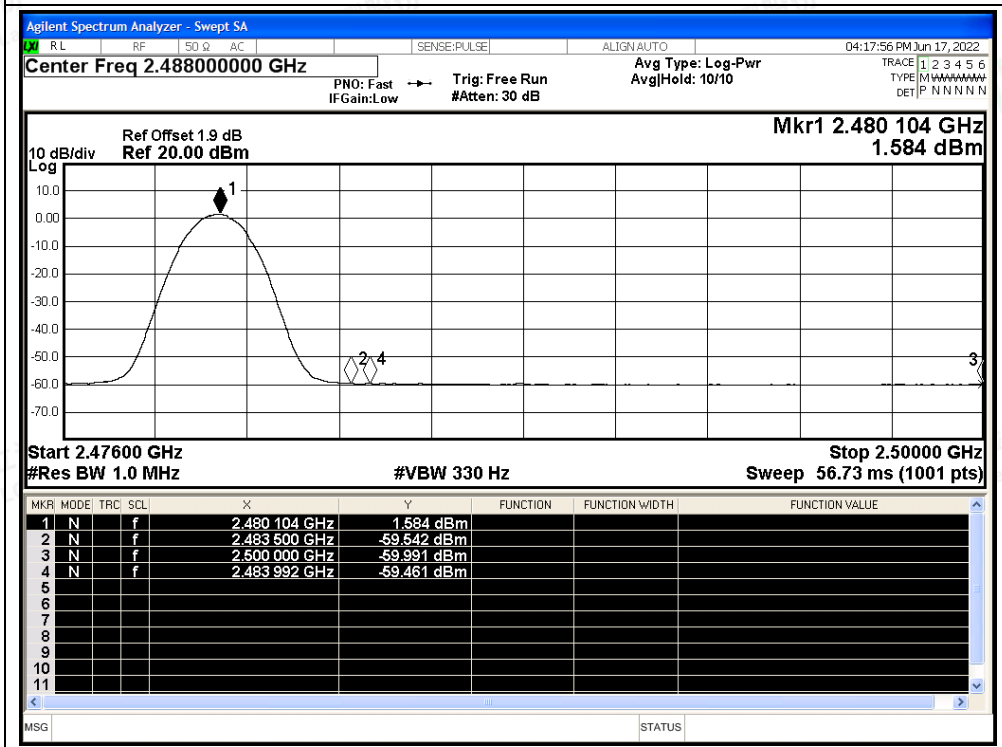




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

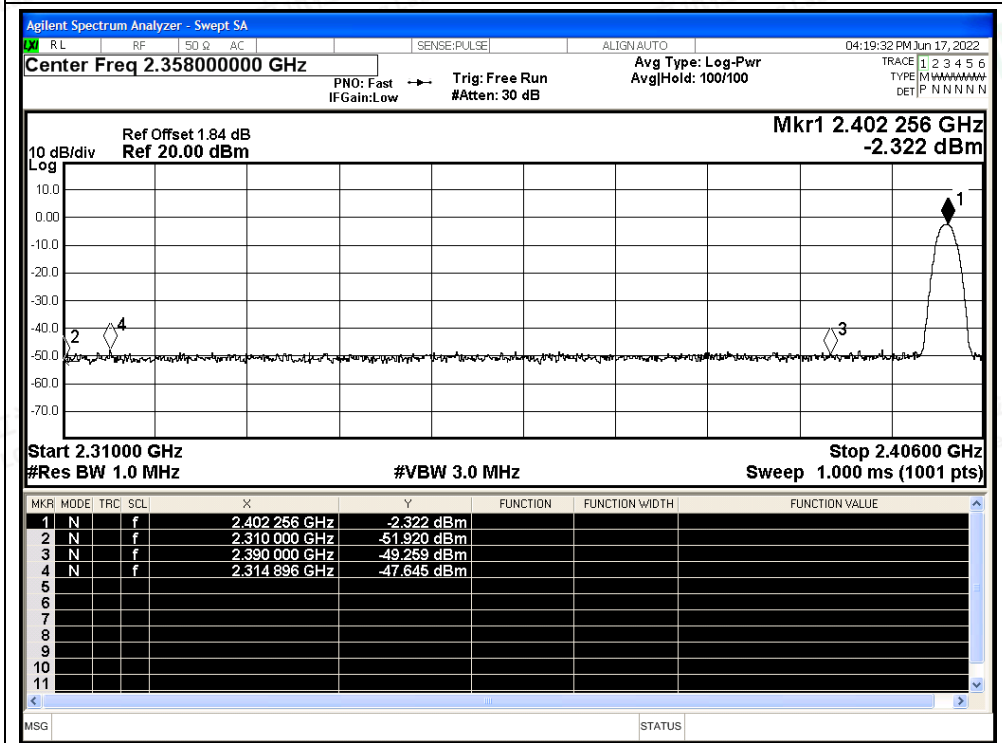


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

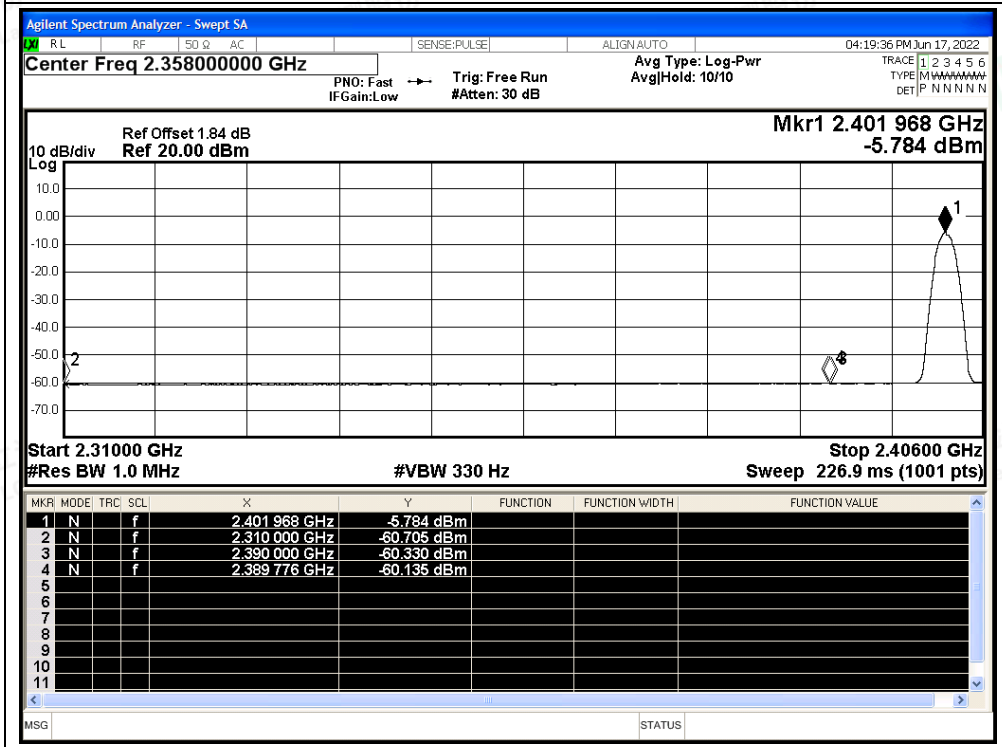




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

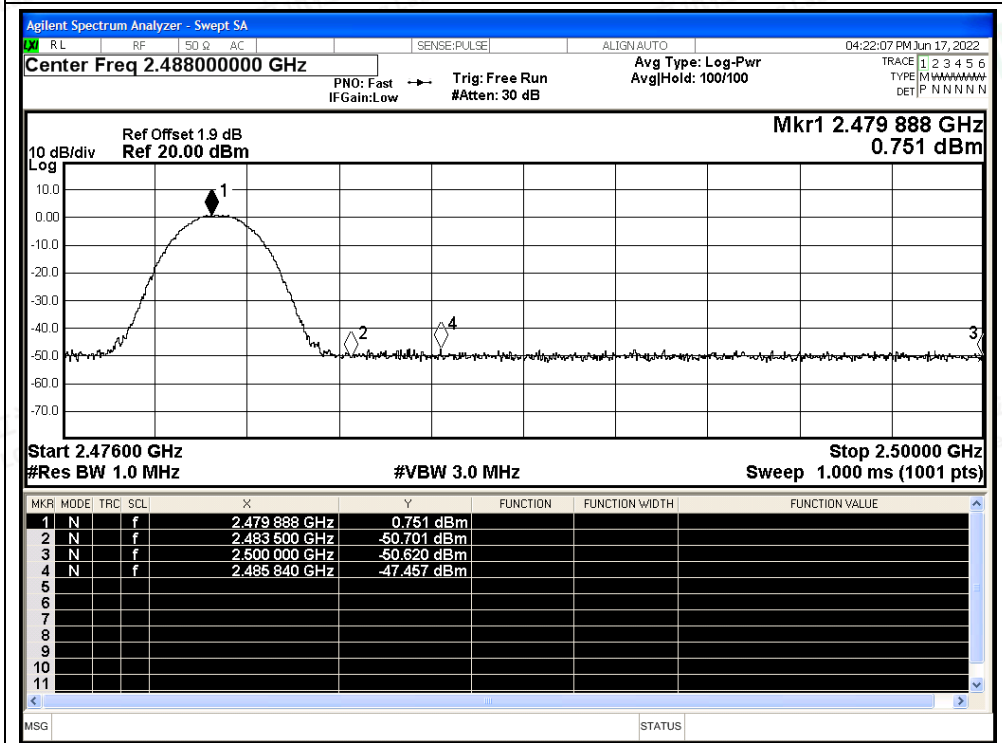


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

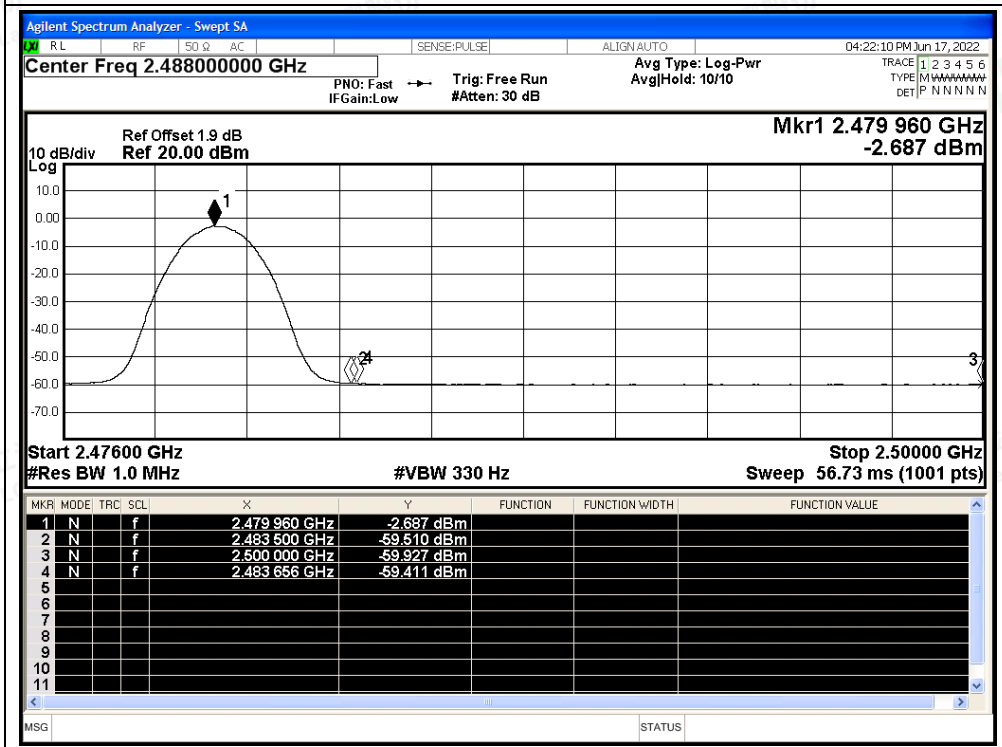




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

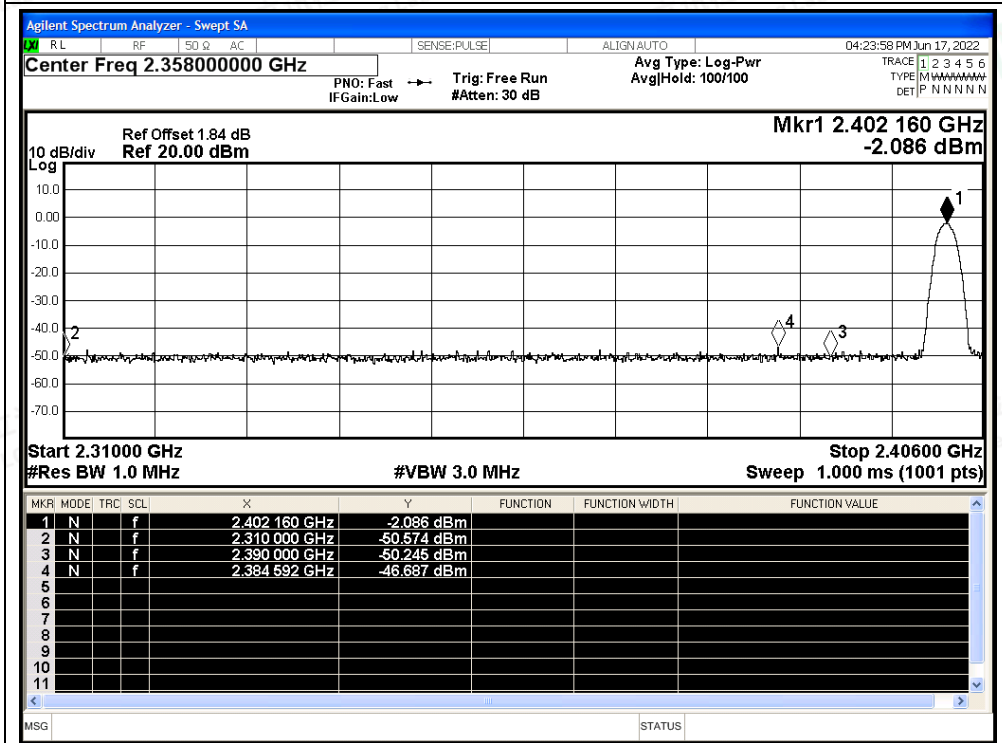


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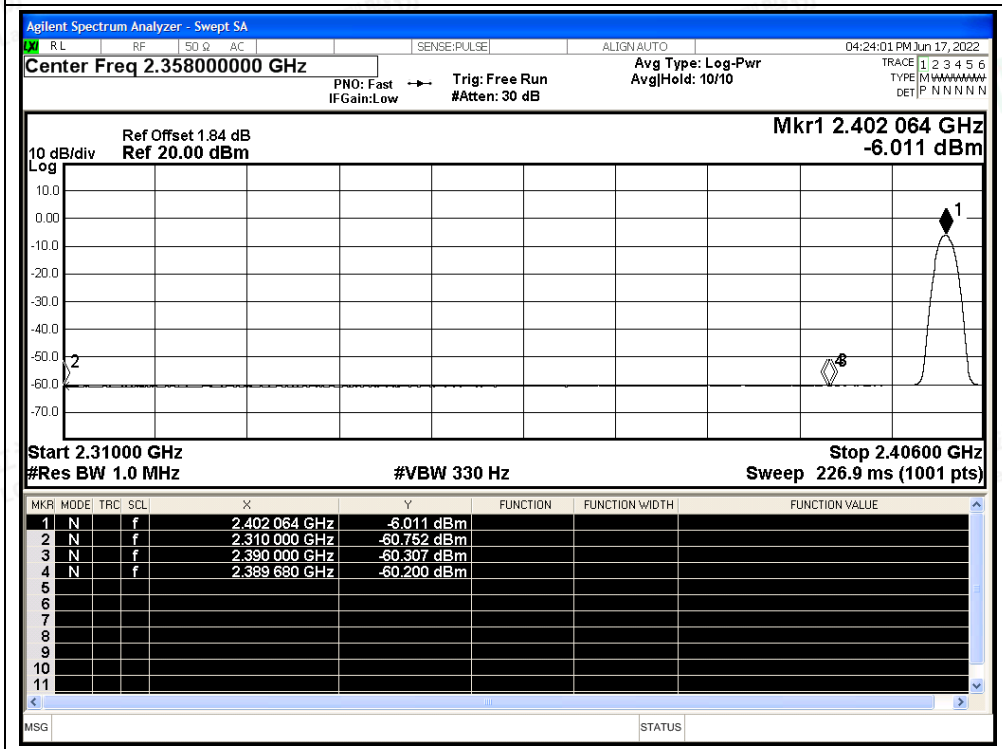




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

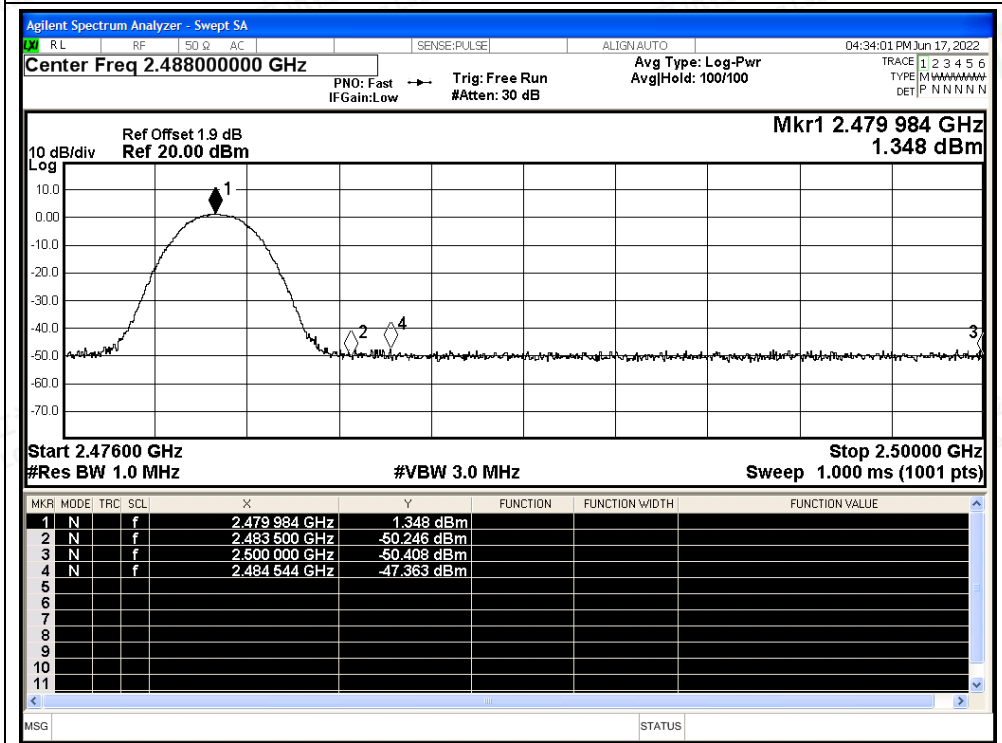


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

