



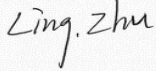
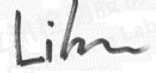
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Earphones

Test Model: CHE-640

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
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	0.961	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.96	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.275	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.252	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.267	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.321	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.307	N/A	Pass



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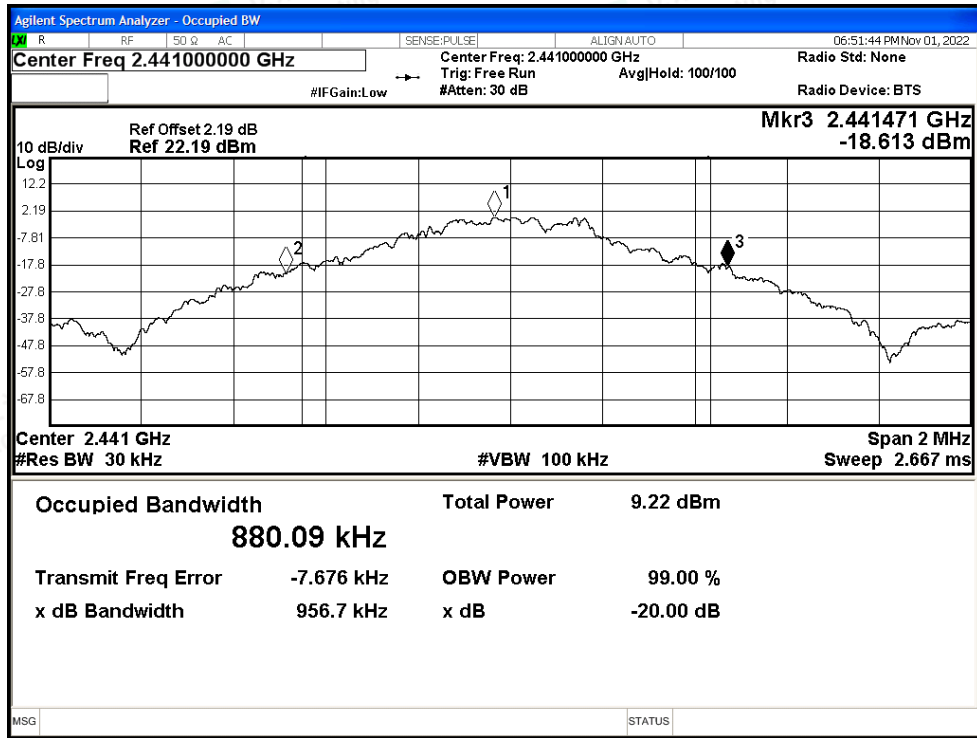


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

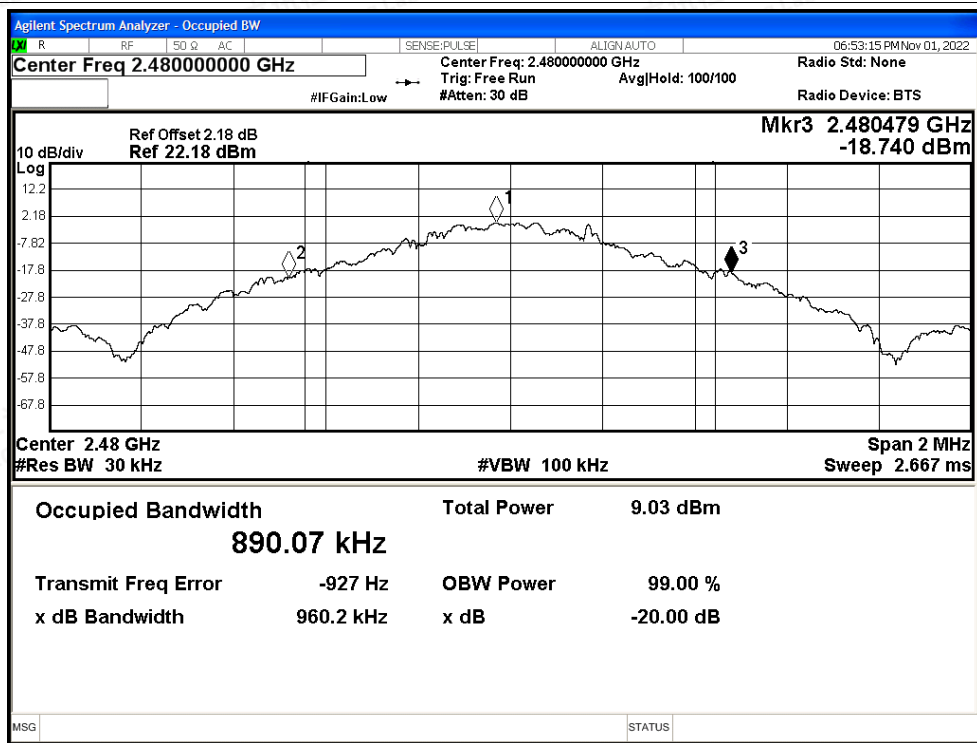


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

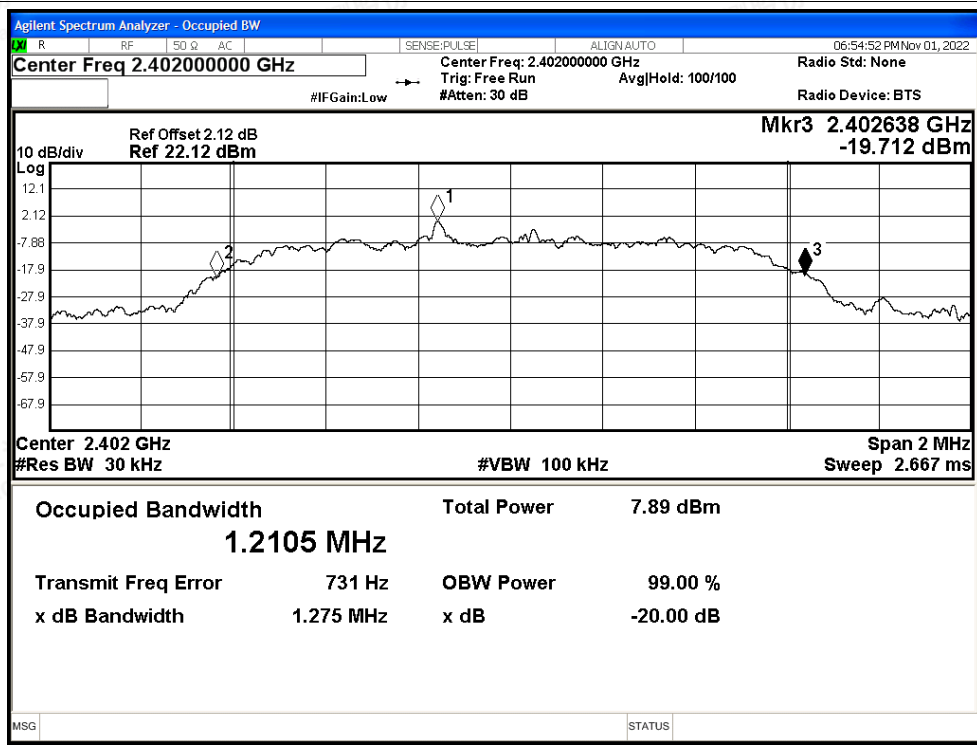




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

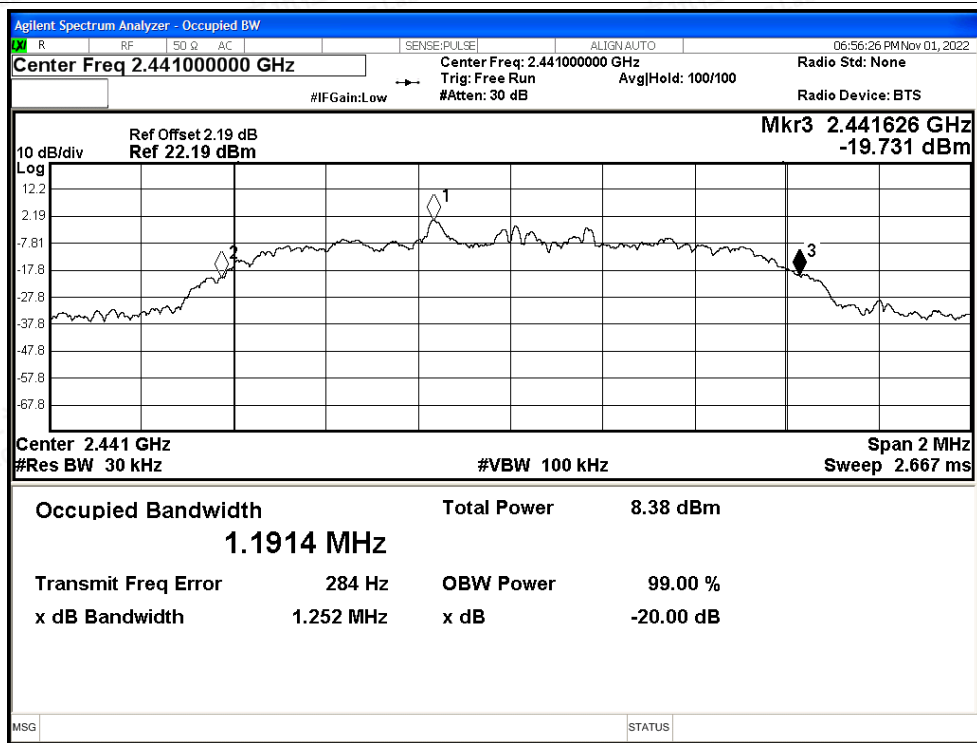


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

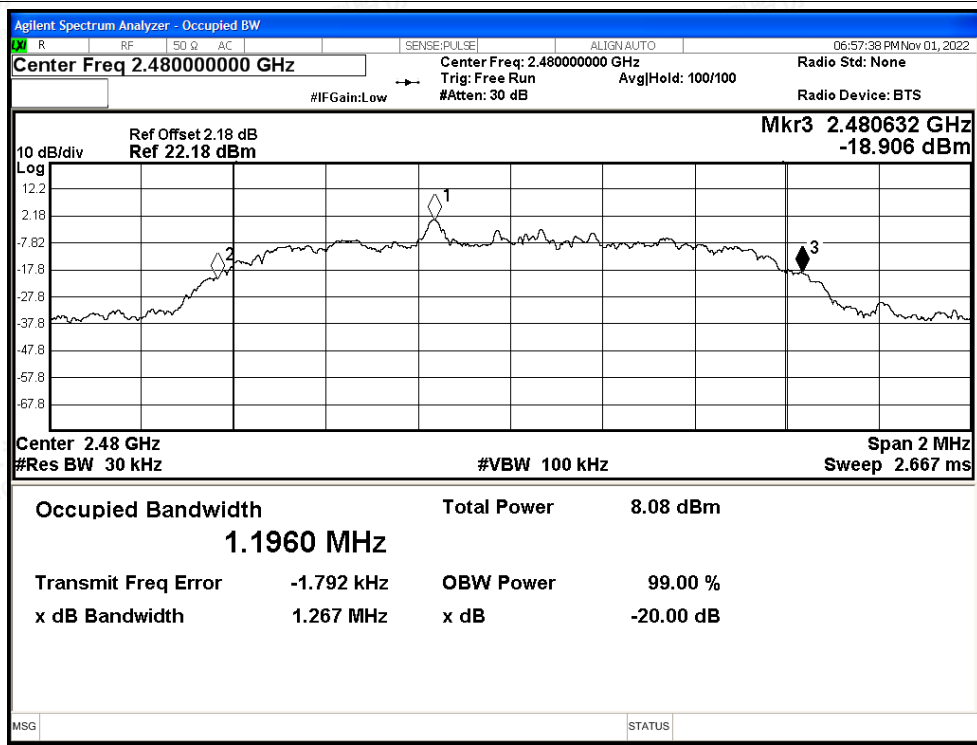




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

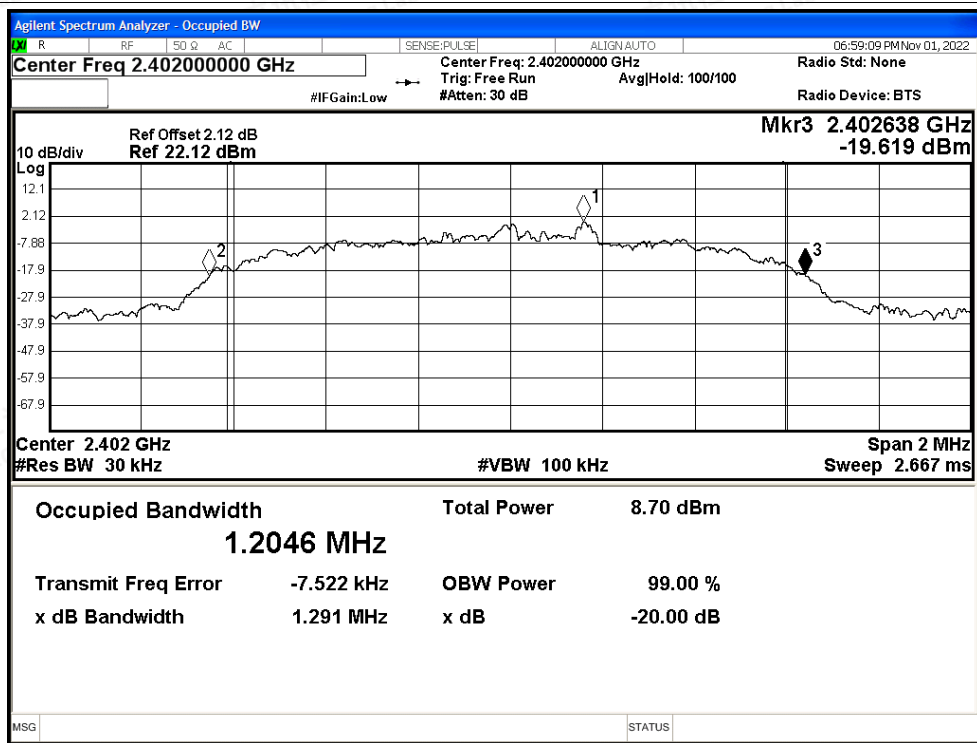


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

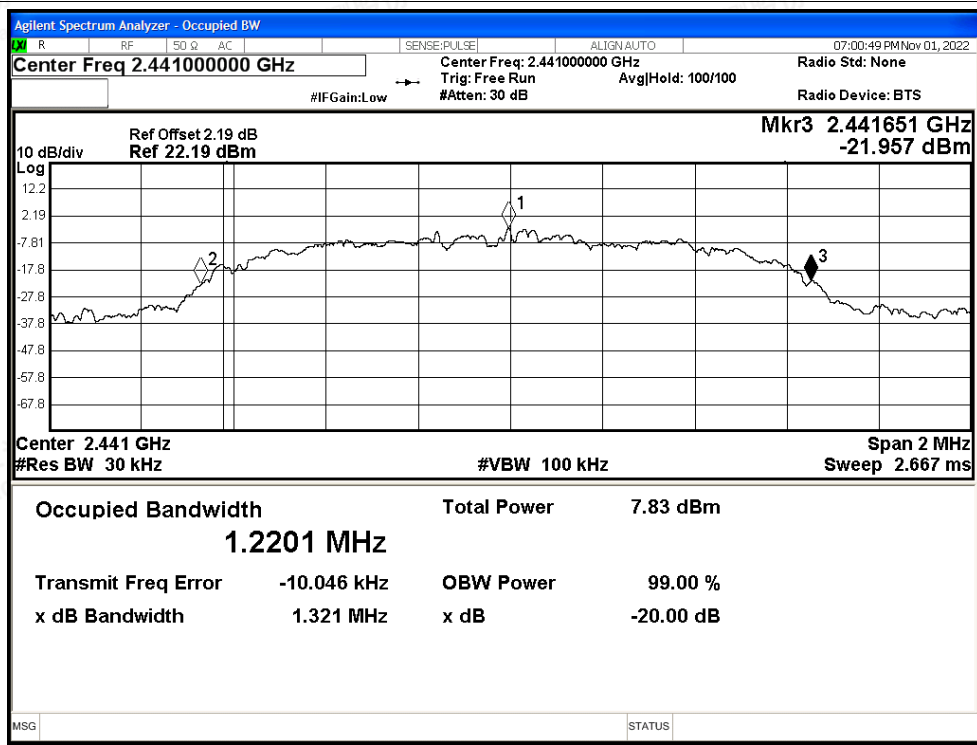


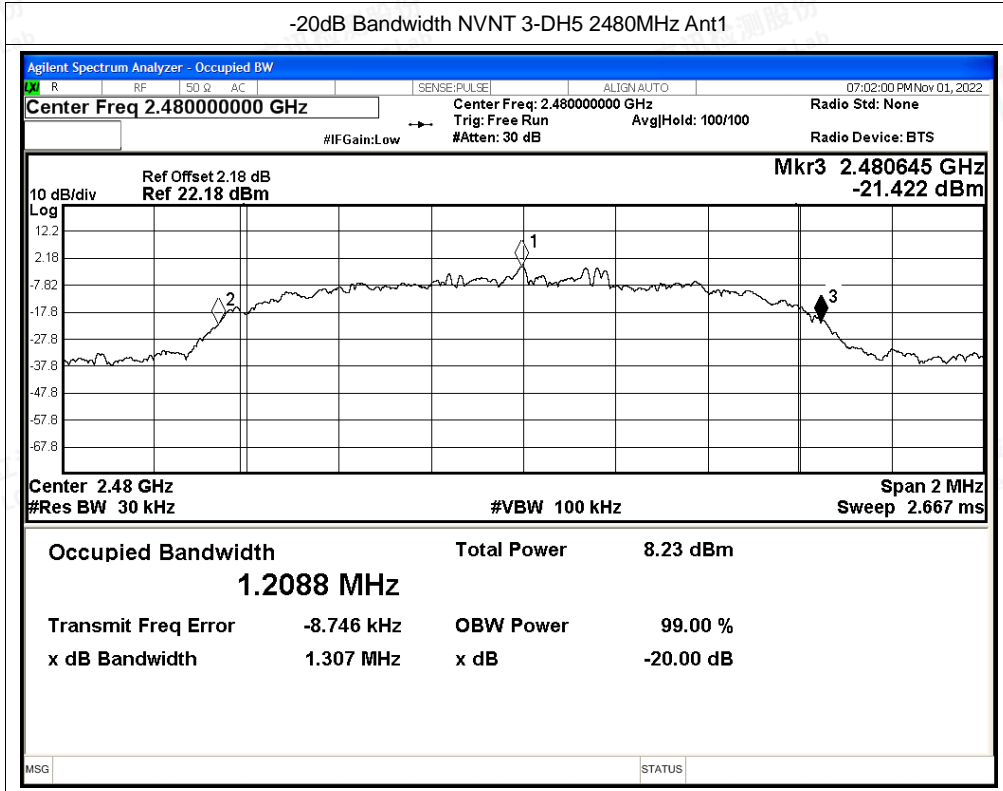


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

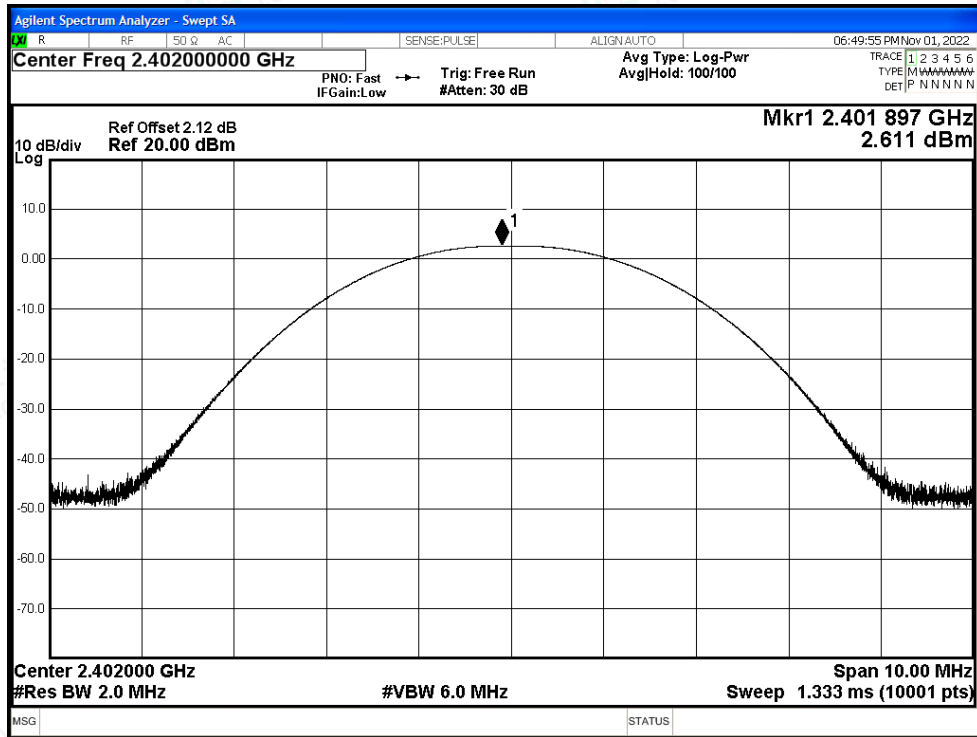
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.61	30	Pass
NVNT	1-DH5	2441	Ant1	2.52	30	Pass
NVNT	1-DH5	2480	Ant1	2.55	30	Pass
NVNT	2-DH5	2402	Ant1	2.66	30	Pass
NVNT	2-DH5	2441	Ant1	2.58	30	Pass
NVNT	2-DH5	2480	Ant1	2.57	30	Pass
NVNT	3-DH5	2402	Ant1	2.67	30	Pass
NVNT	3-DH5	2441	Ant1	2.61	30	Pass
NVNT	3-DH5	2480	Ant1	2.59	30	Pass



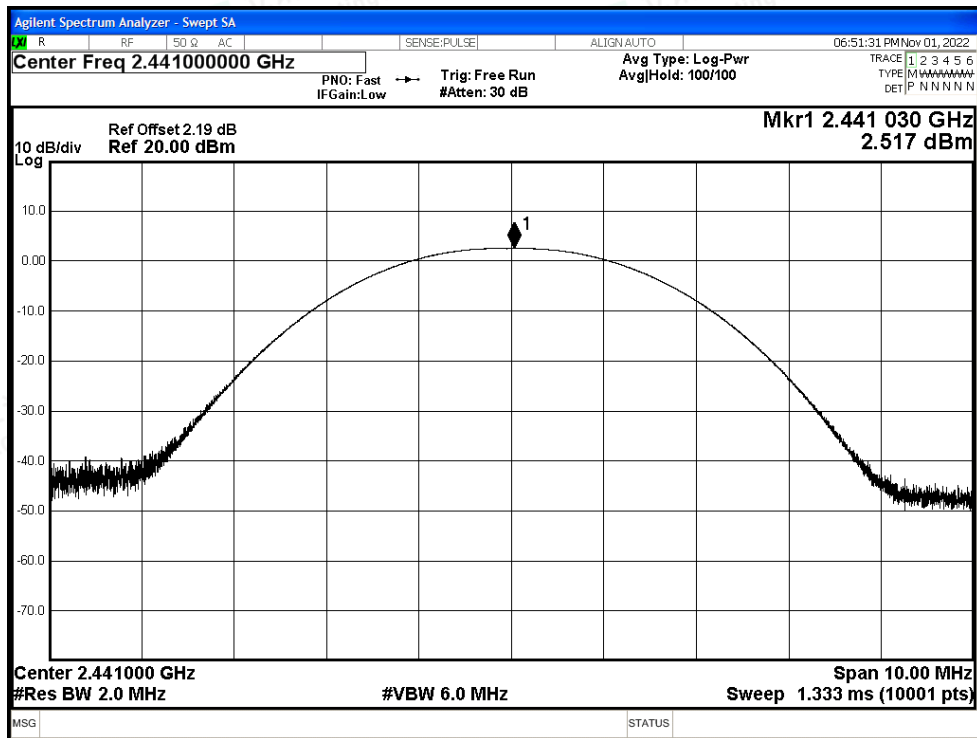


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

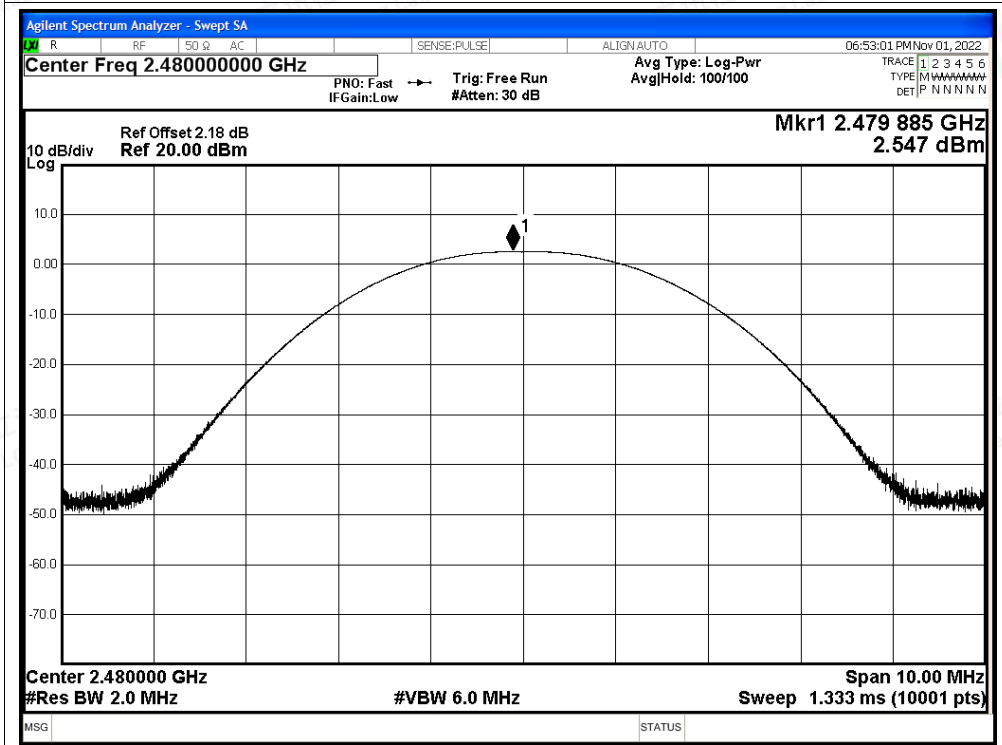


Power NVNT 1-DH5 2441MHz Ant1

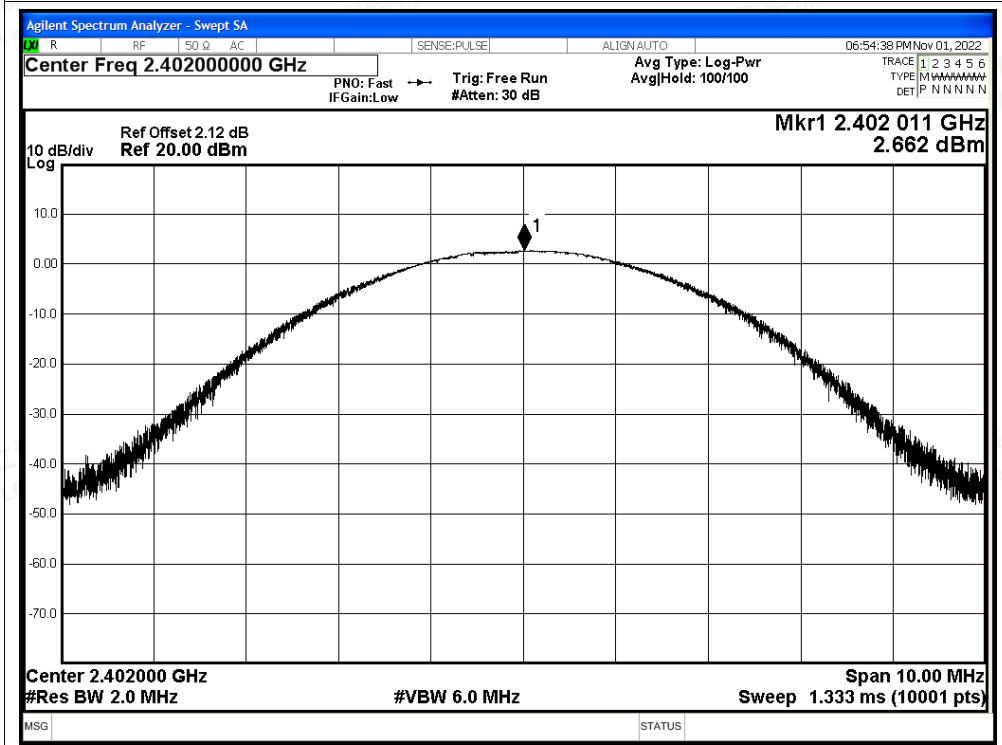


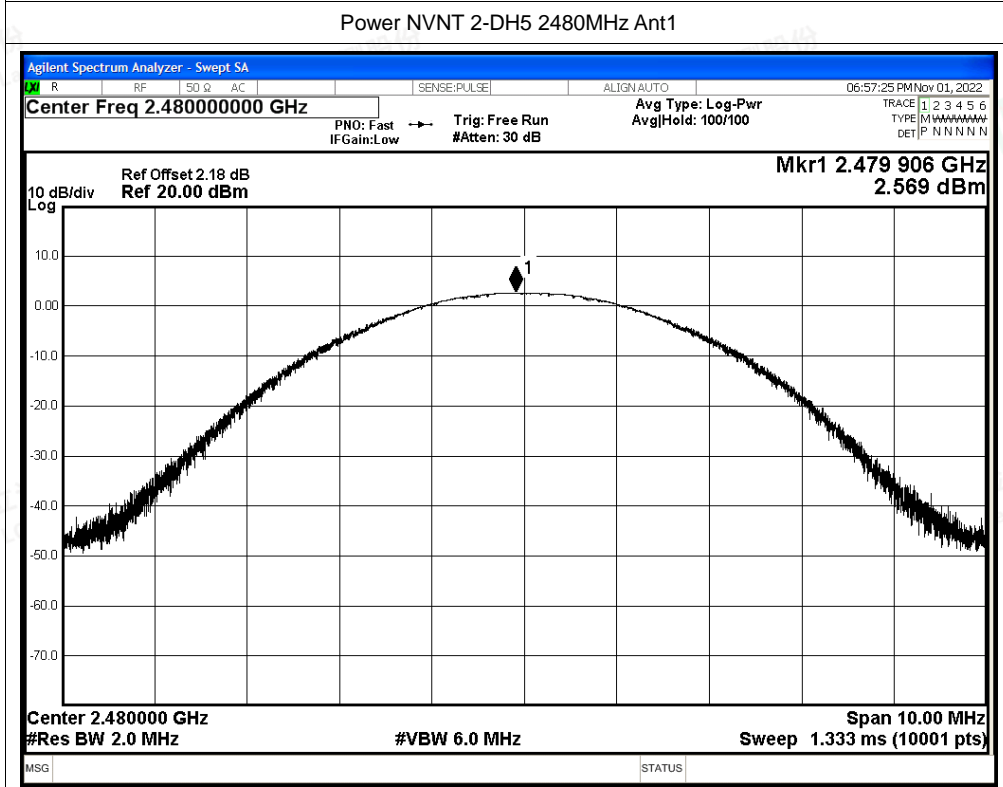
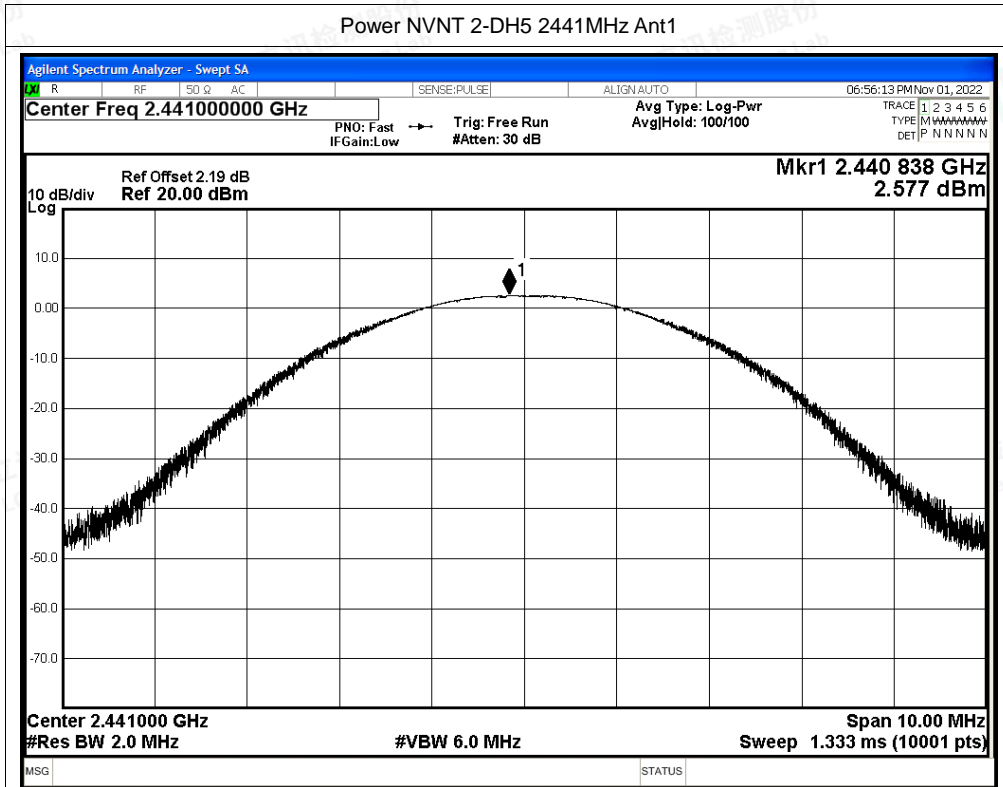


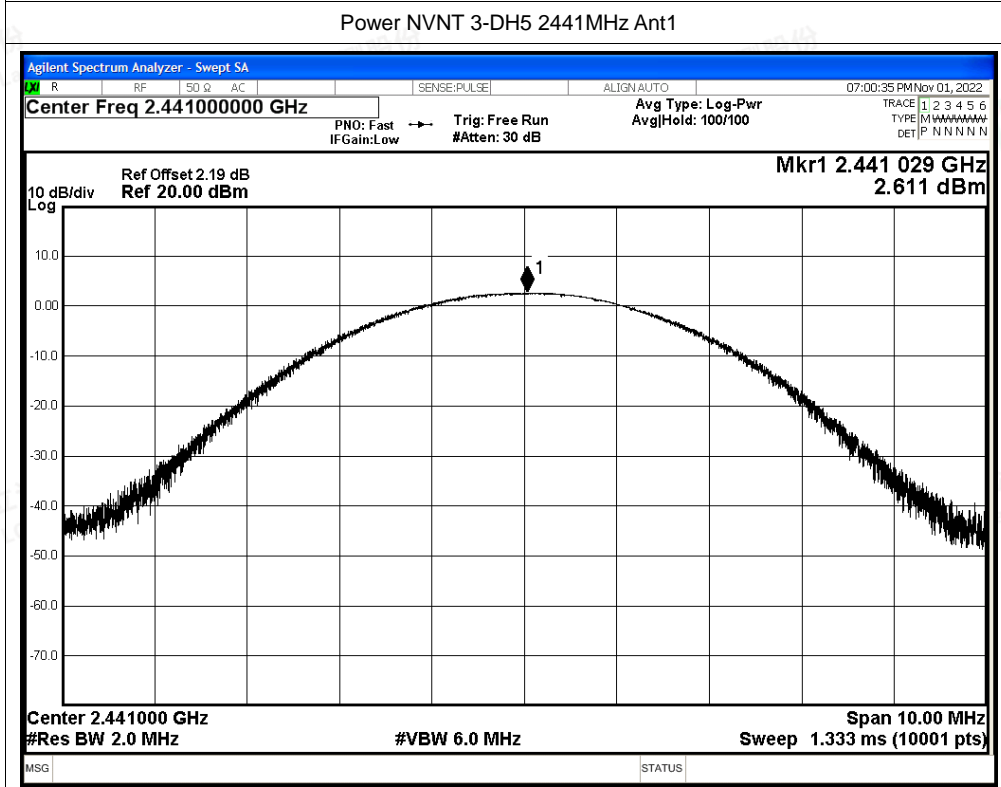
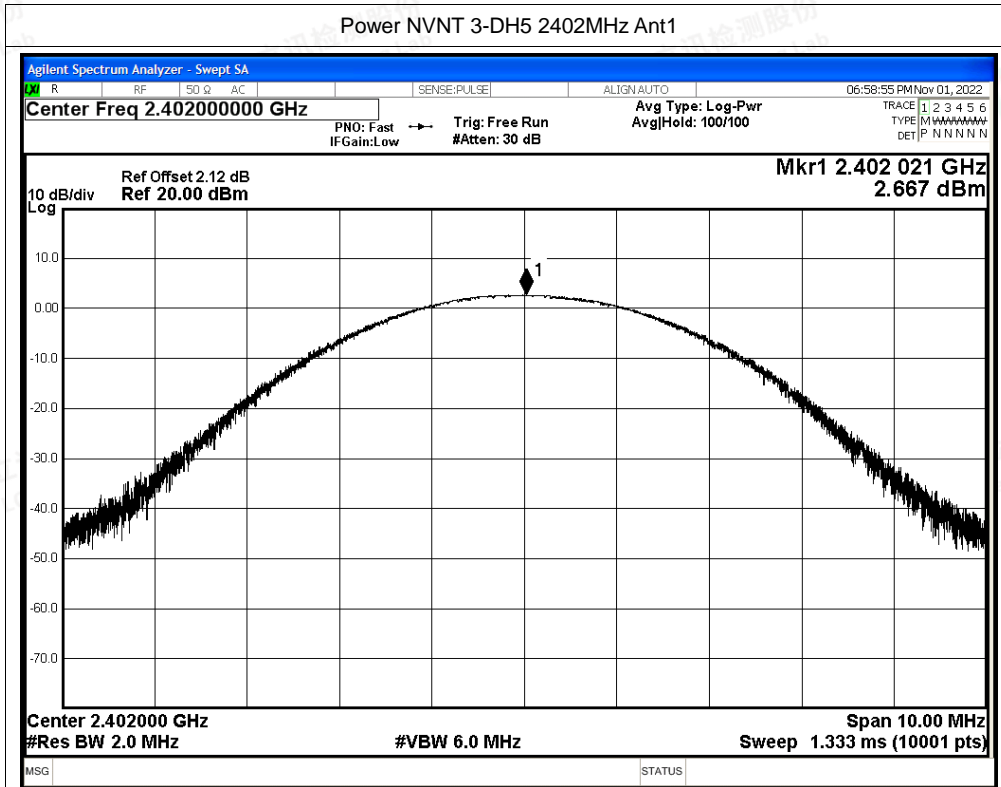
Power NVNT 1-DH5 2480MHz Ant1

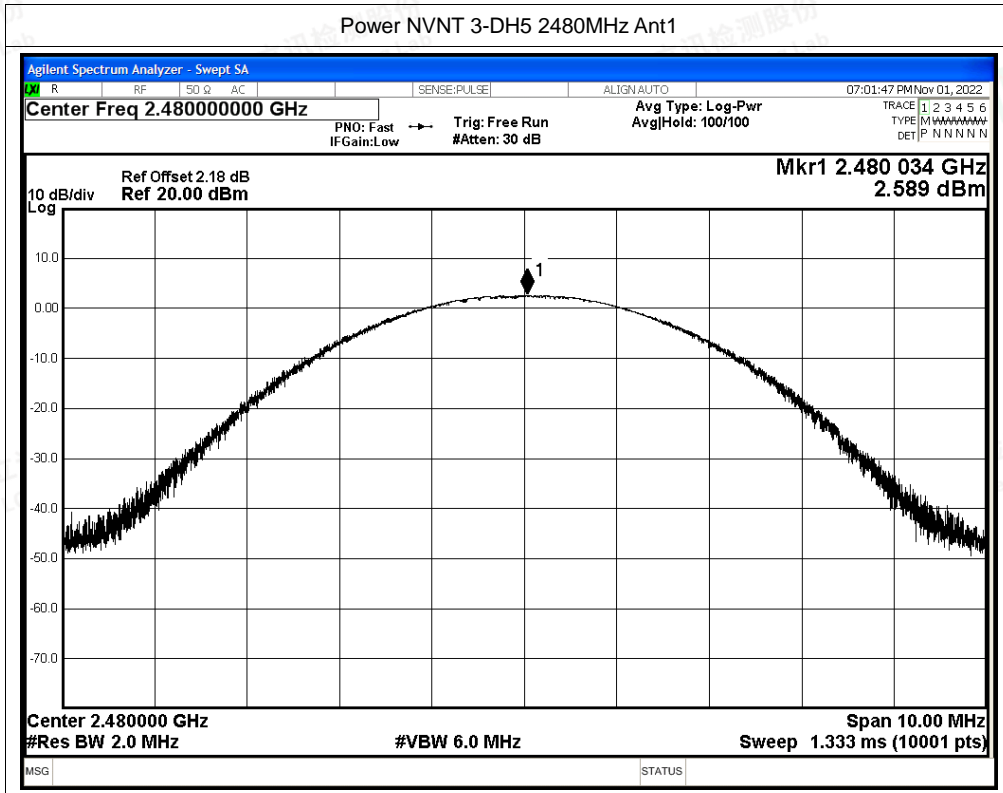


Power NVNT 2-DH5 2402MHz Ant1











A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.012	2402.966	0.954	0.641	Pass
NVNT	2-DH5	Ant1	2401.838	2402.994	1.156	0.850	Pass
NVNT	3-DH5	Ant1	2402.142	2403.152	1.01	0.881	Pass

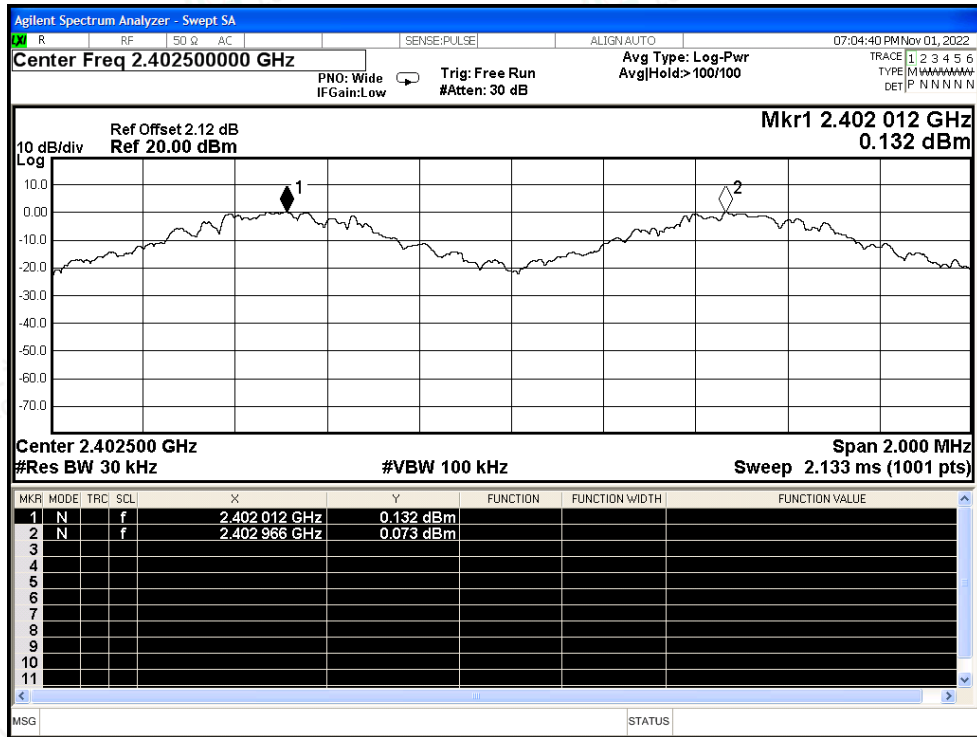


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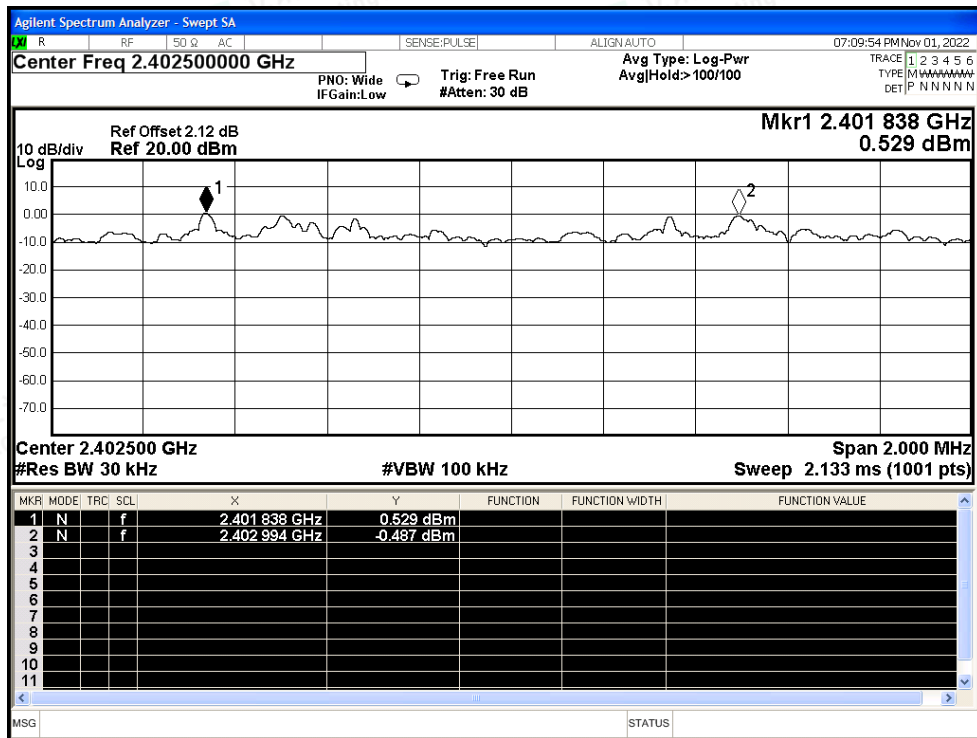


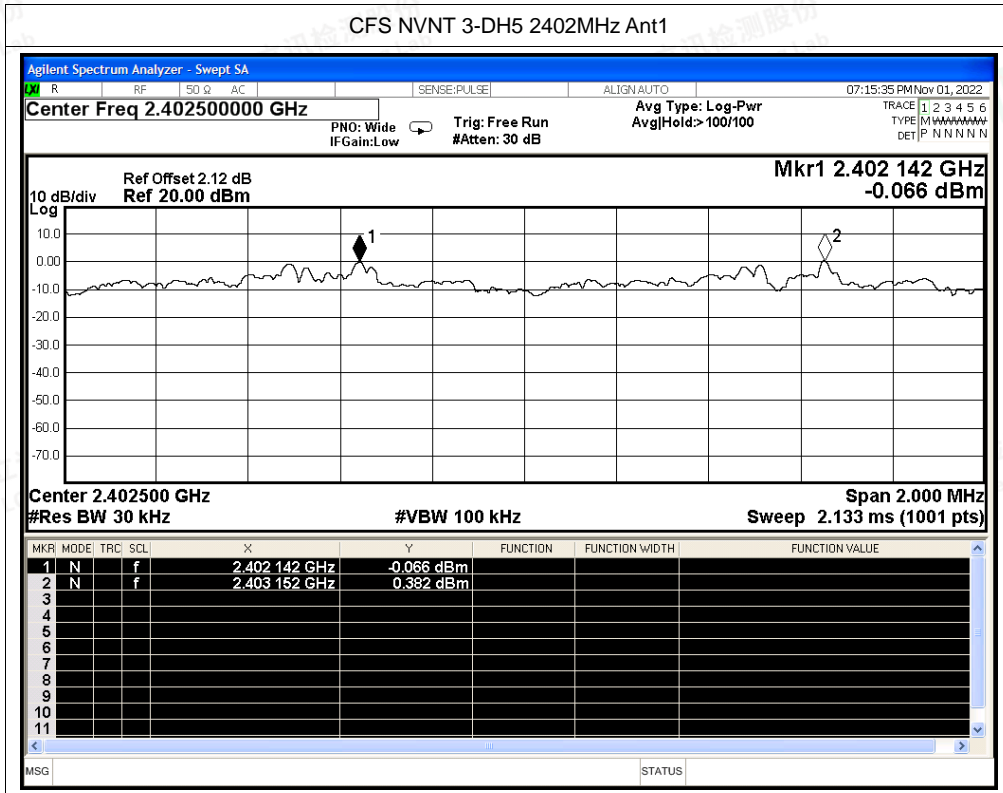
Test Graphs

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	2.88	308.16	107	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	308.267	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	308.481	107	31600	400	Pass

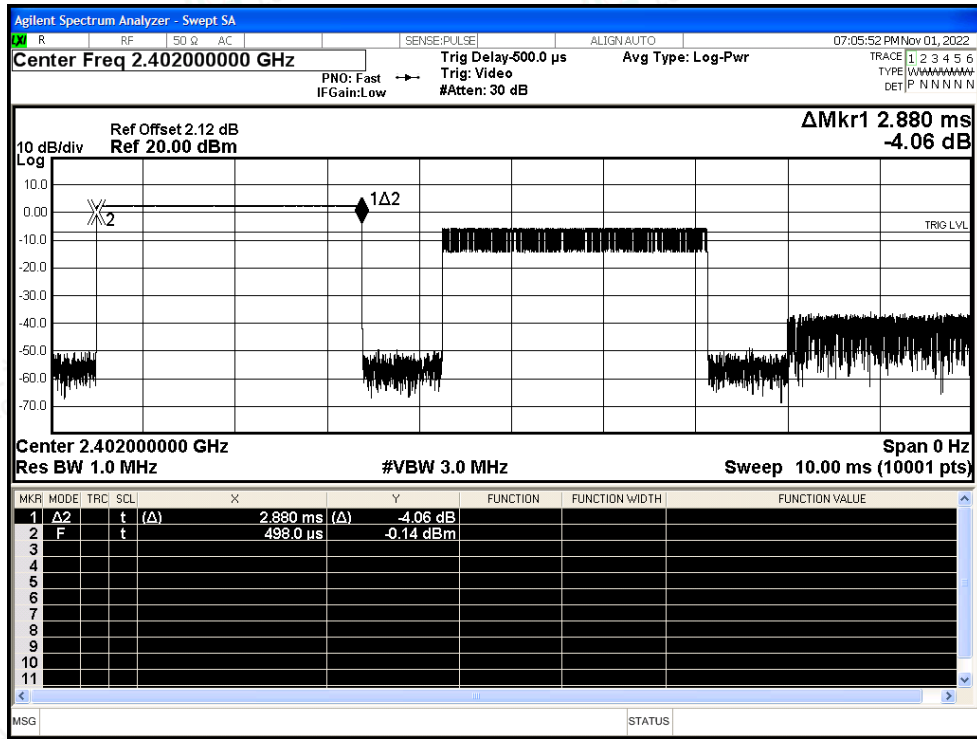


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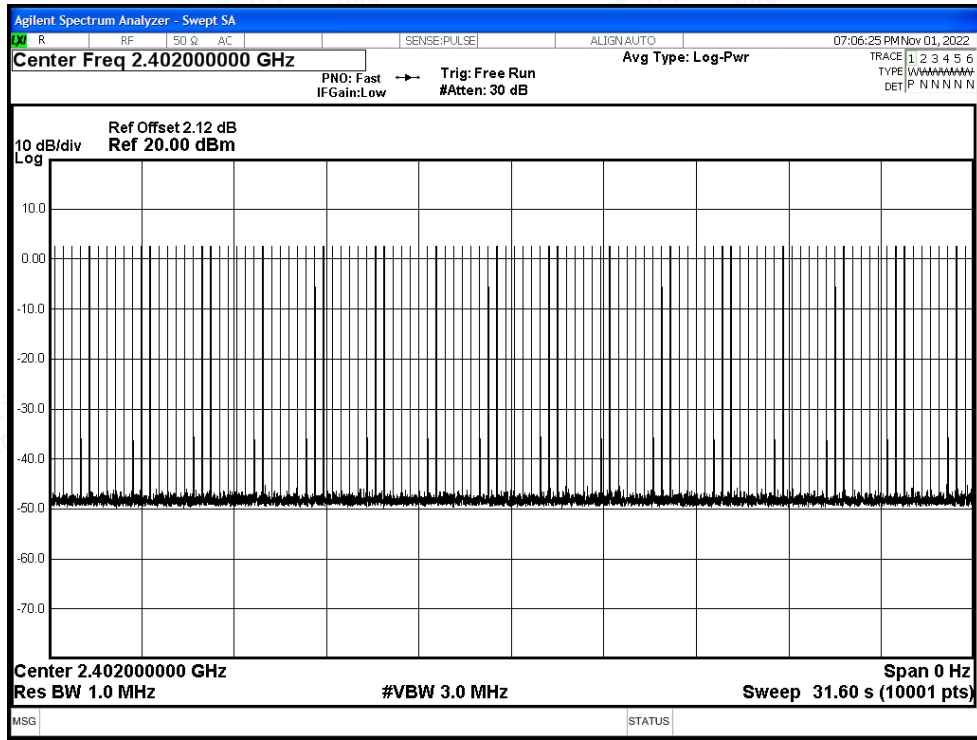


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

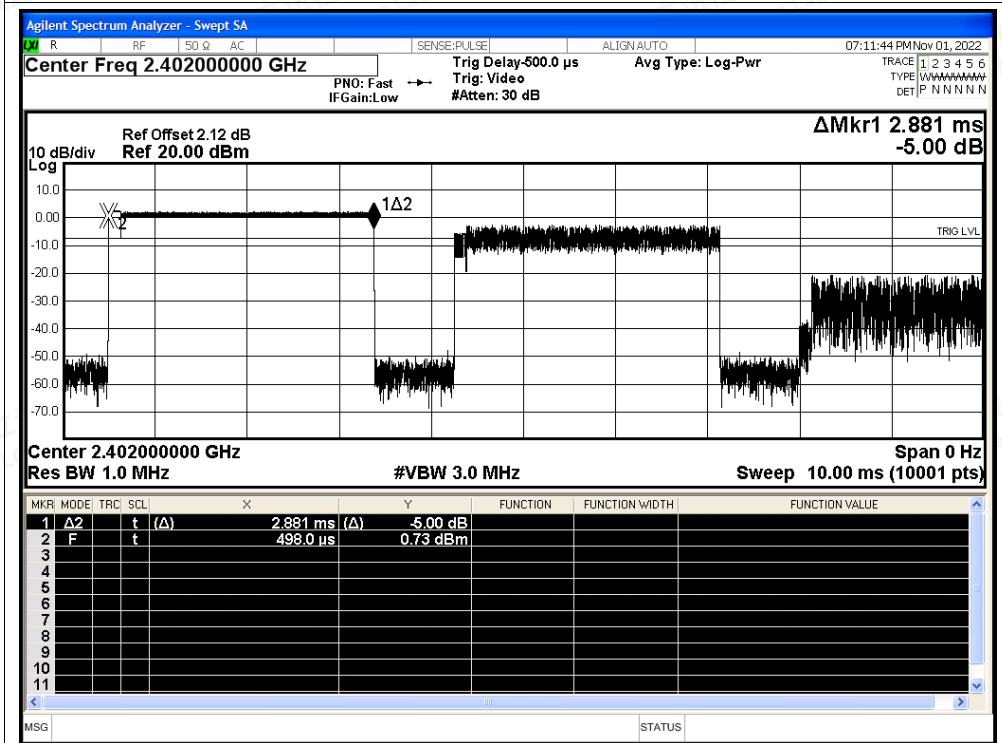


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

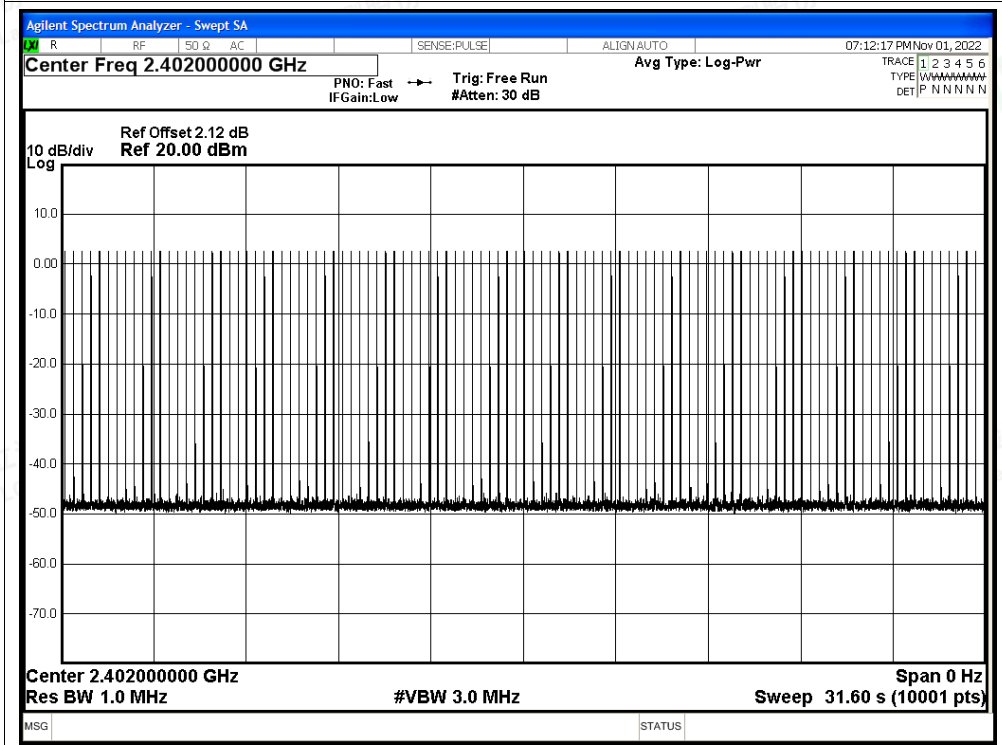




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

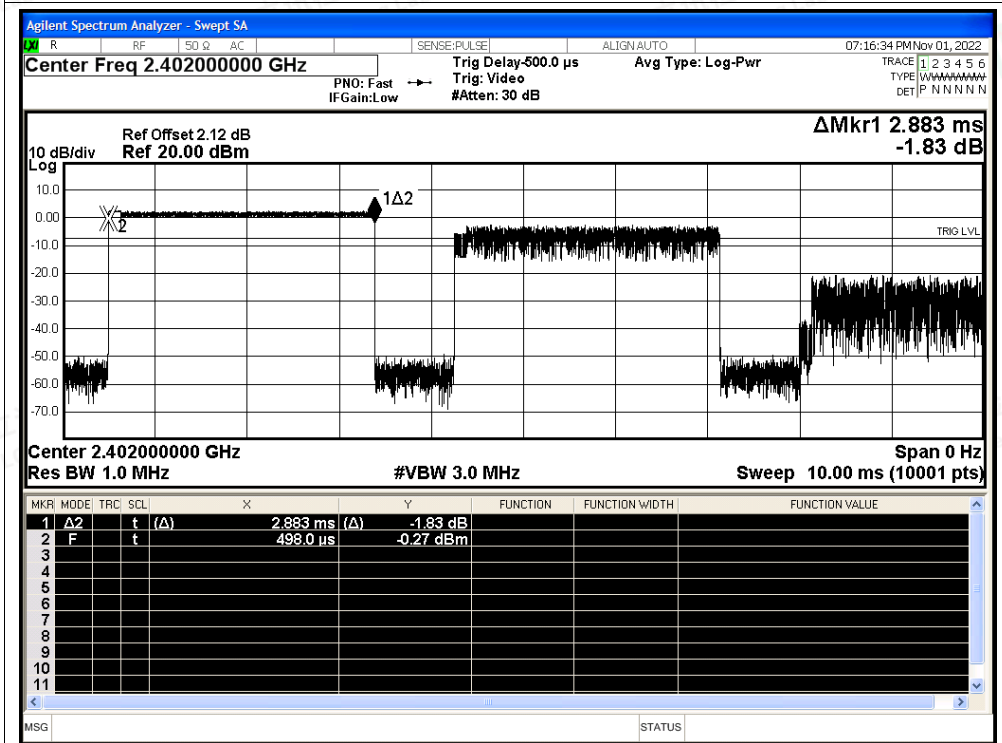


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

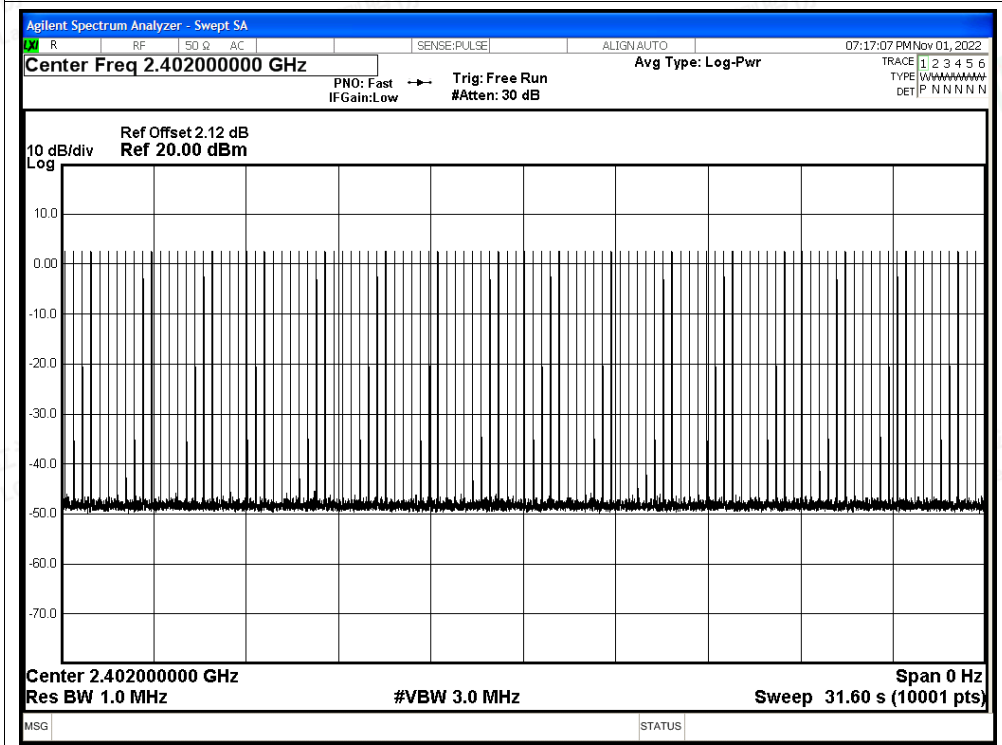




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

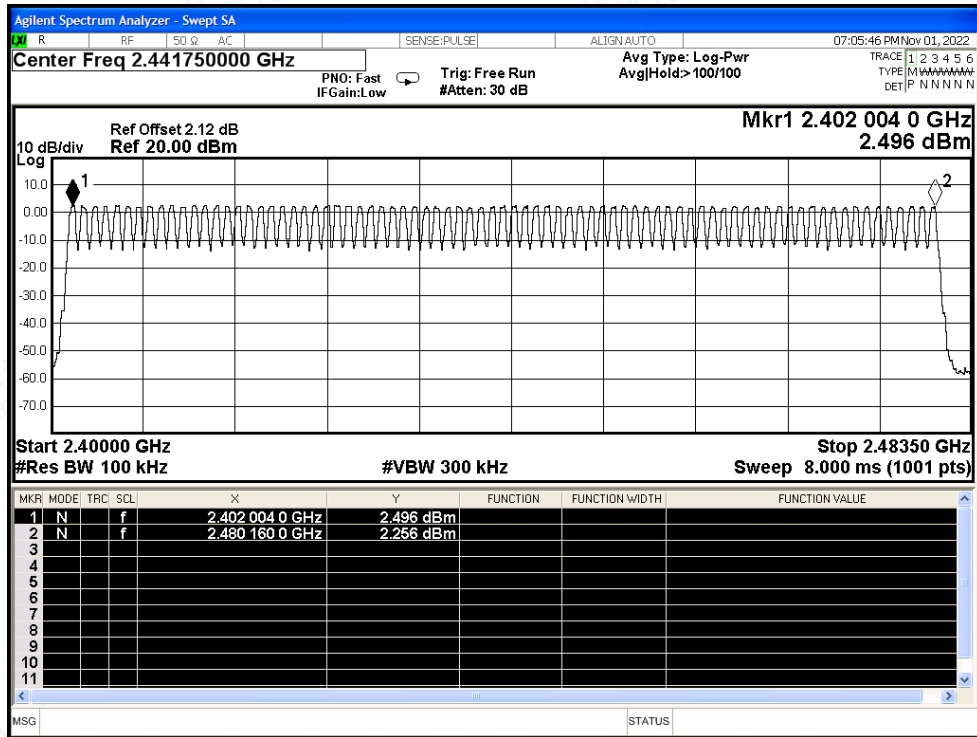
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



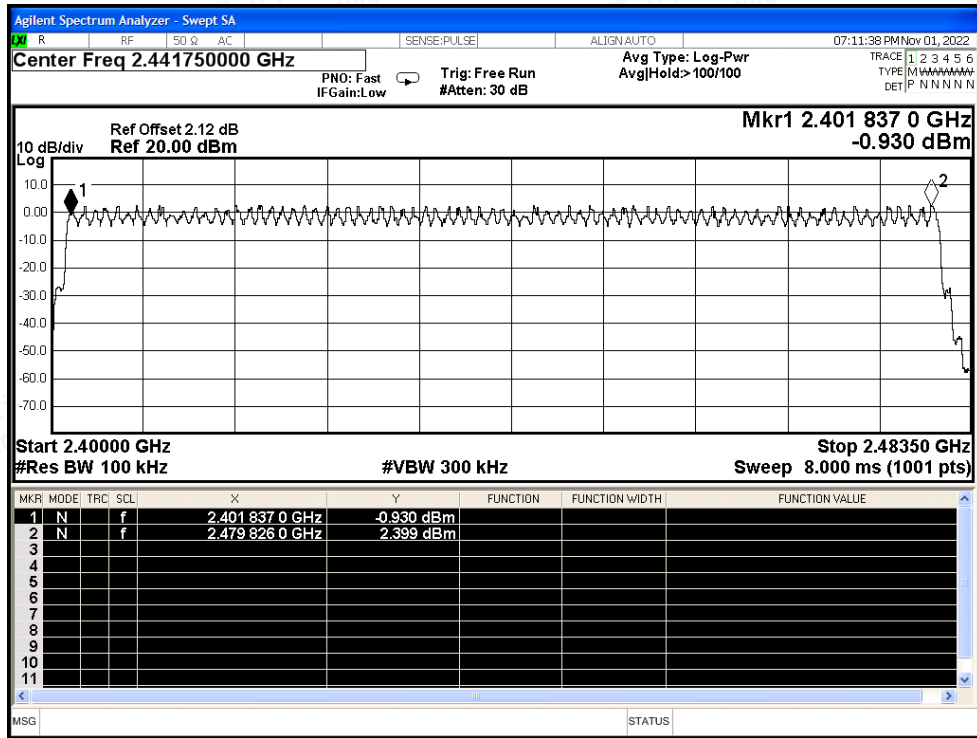


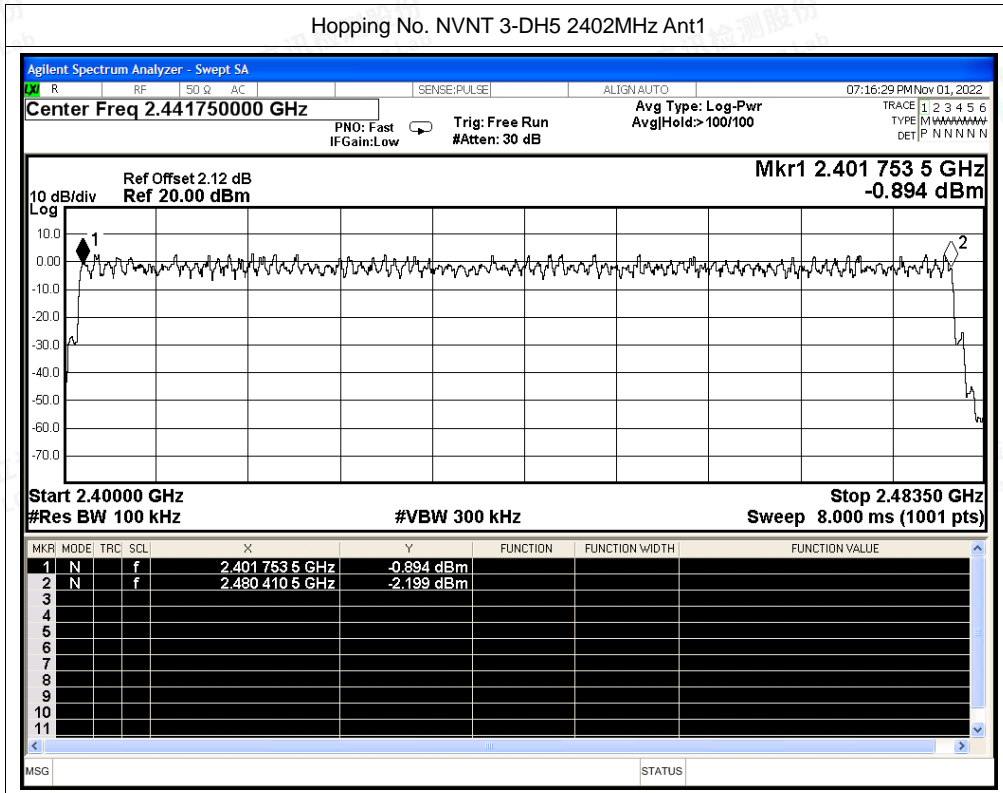
Test Graphs

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	-59.42	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.03	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-43.92	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.47	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-42.08	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.22	-20	Pass

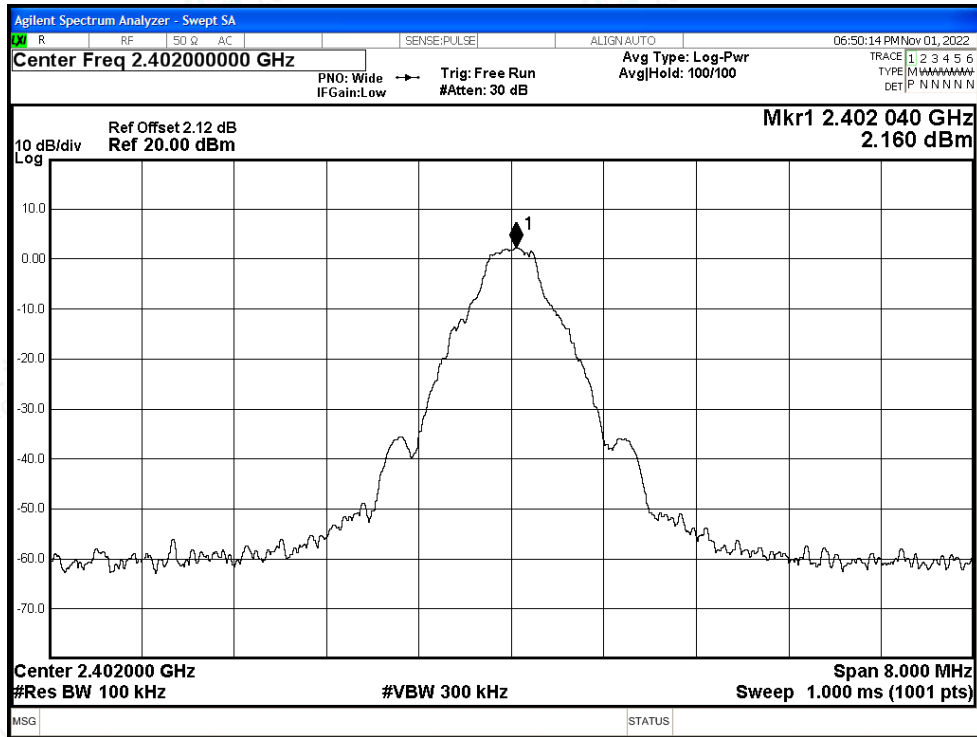


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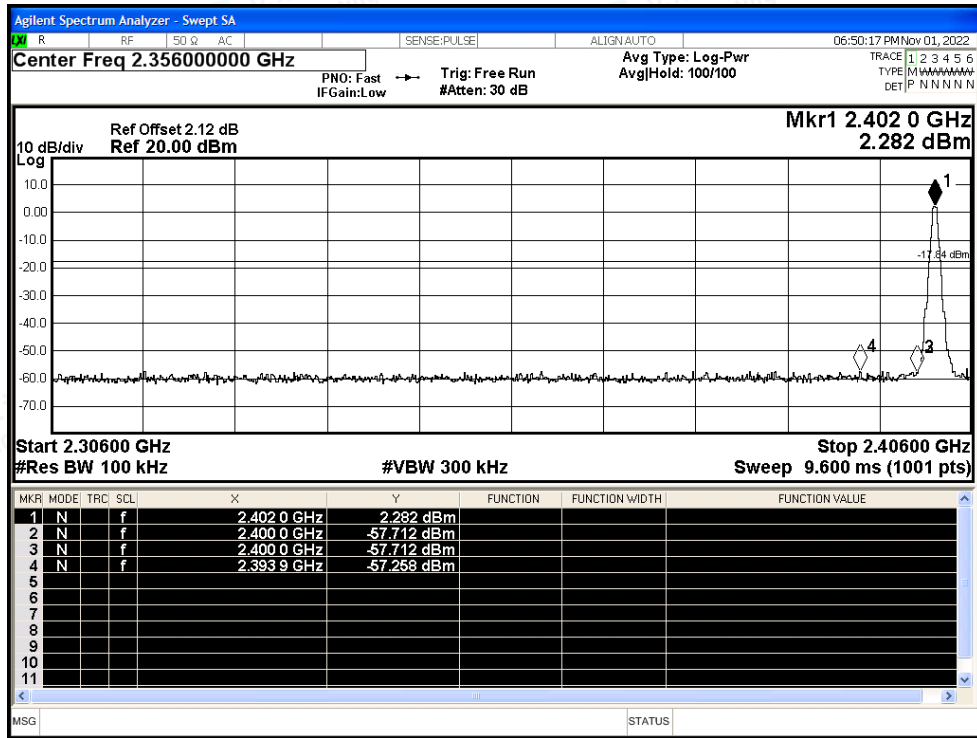


Test Graphs

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

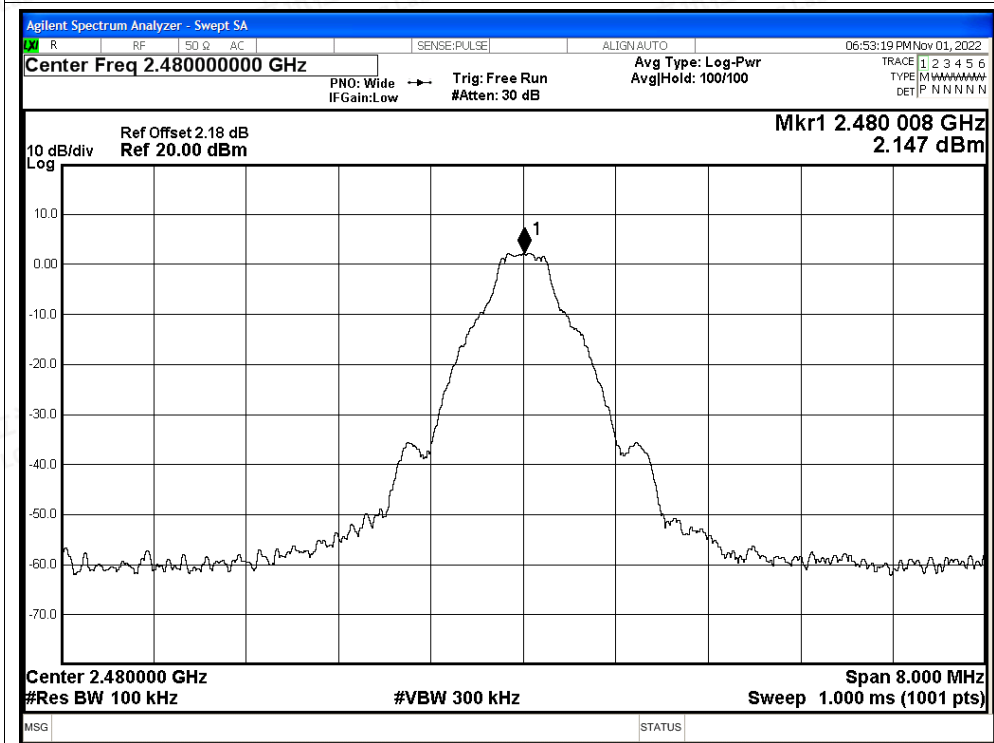


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

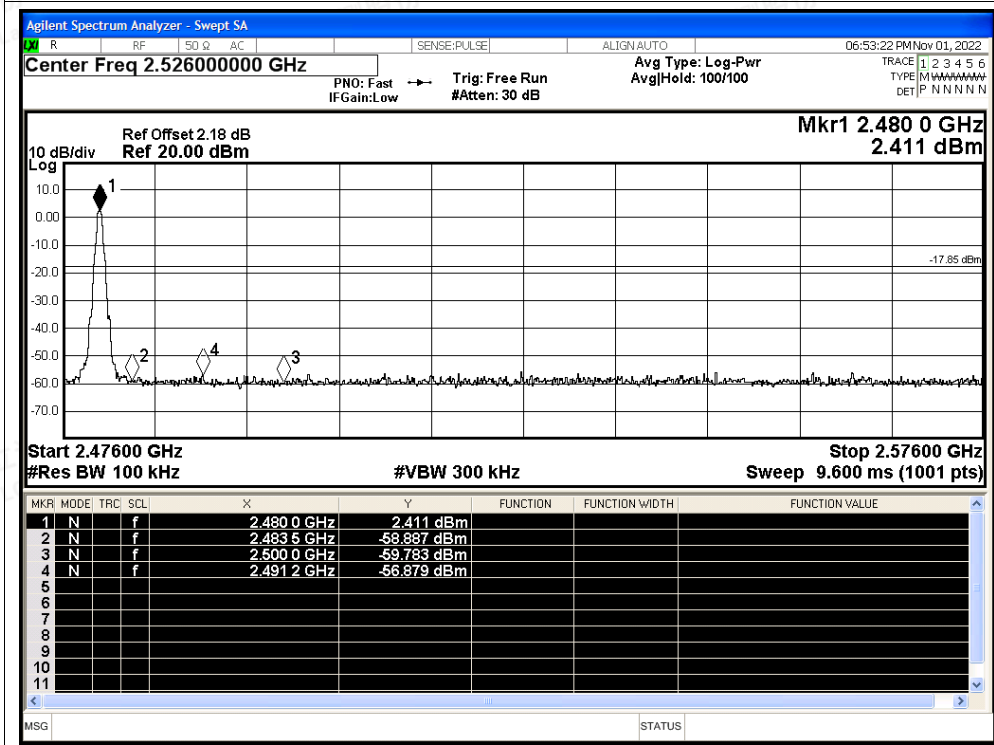




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

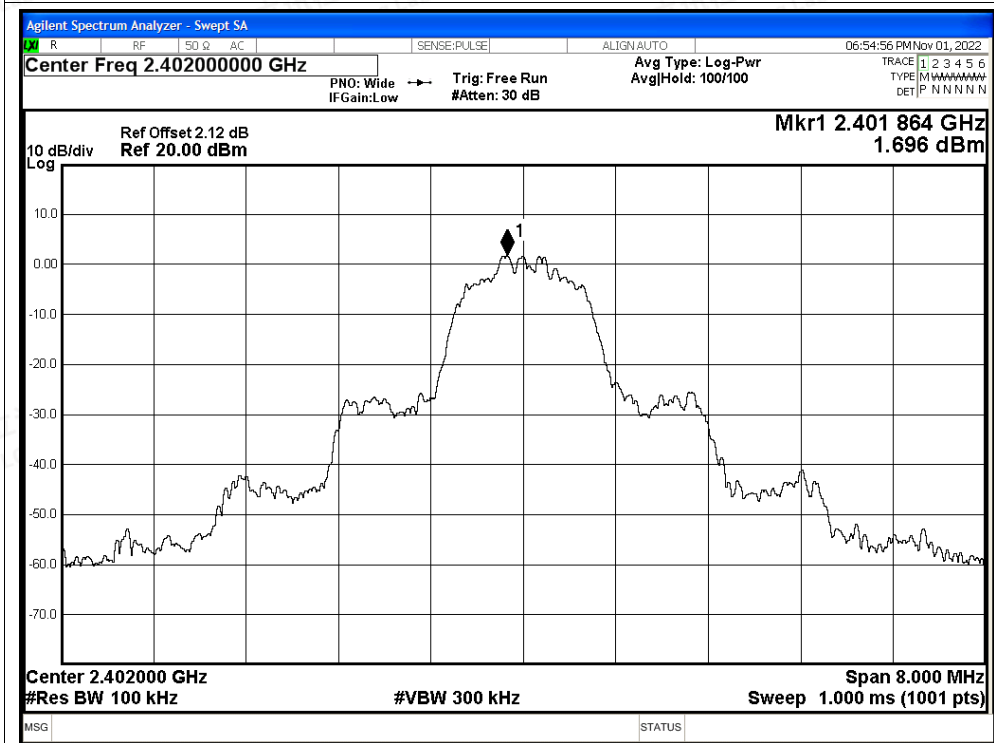


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

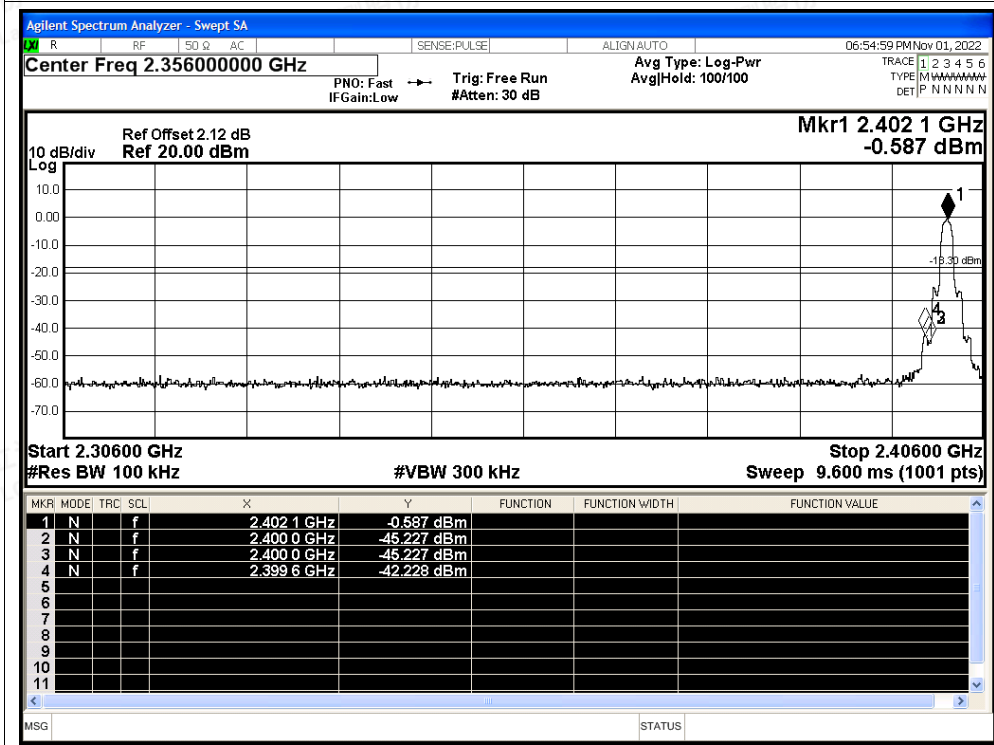




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

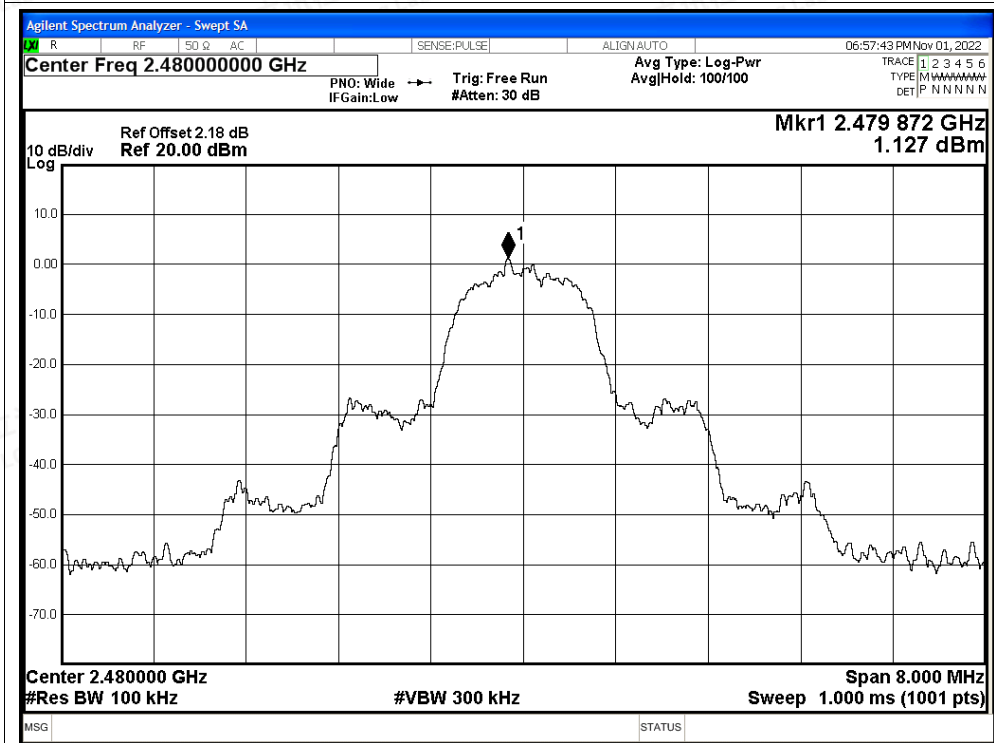


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

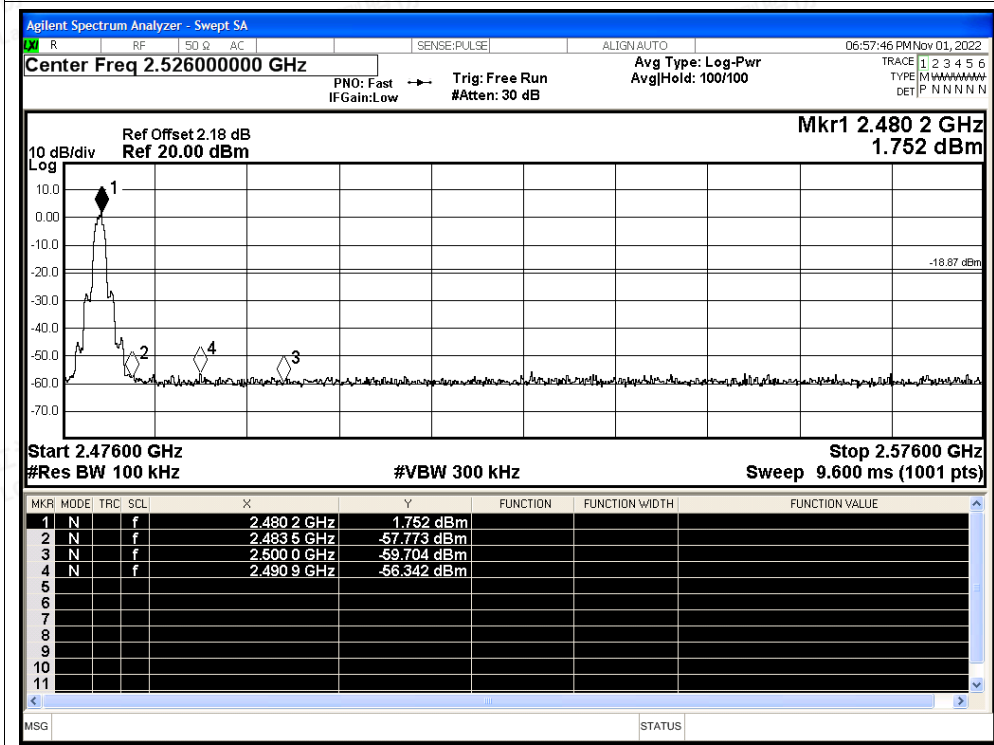


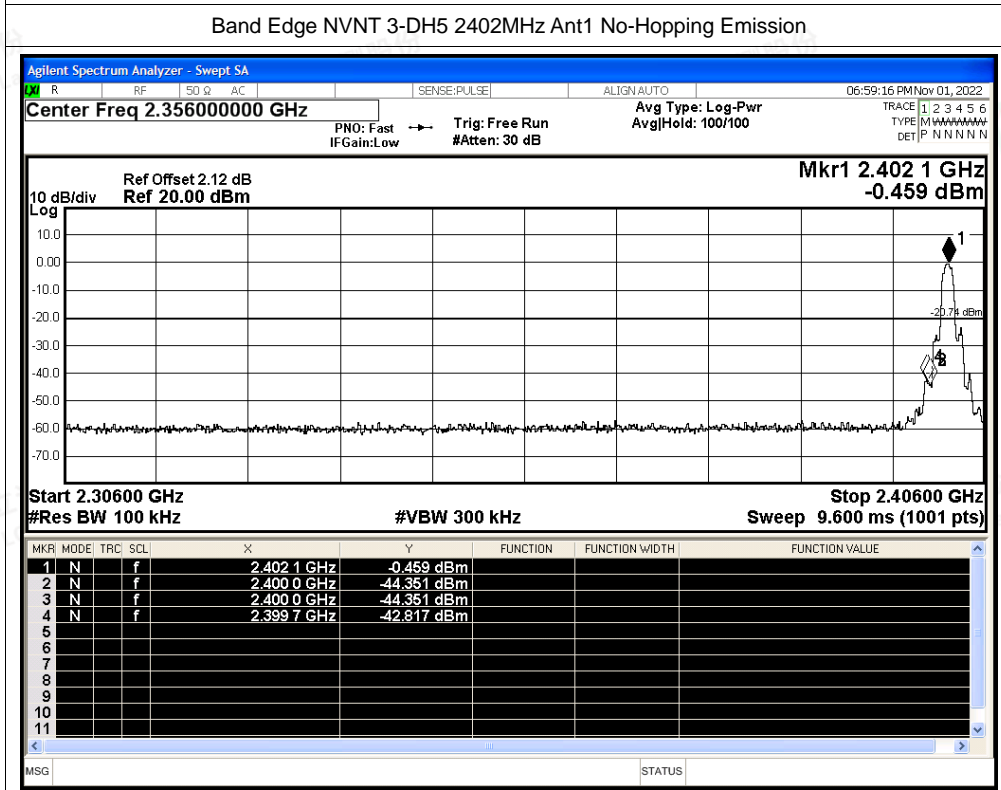
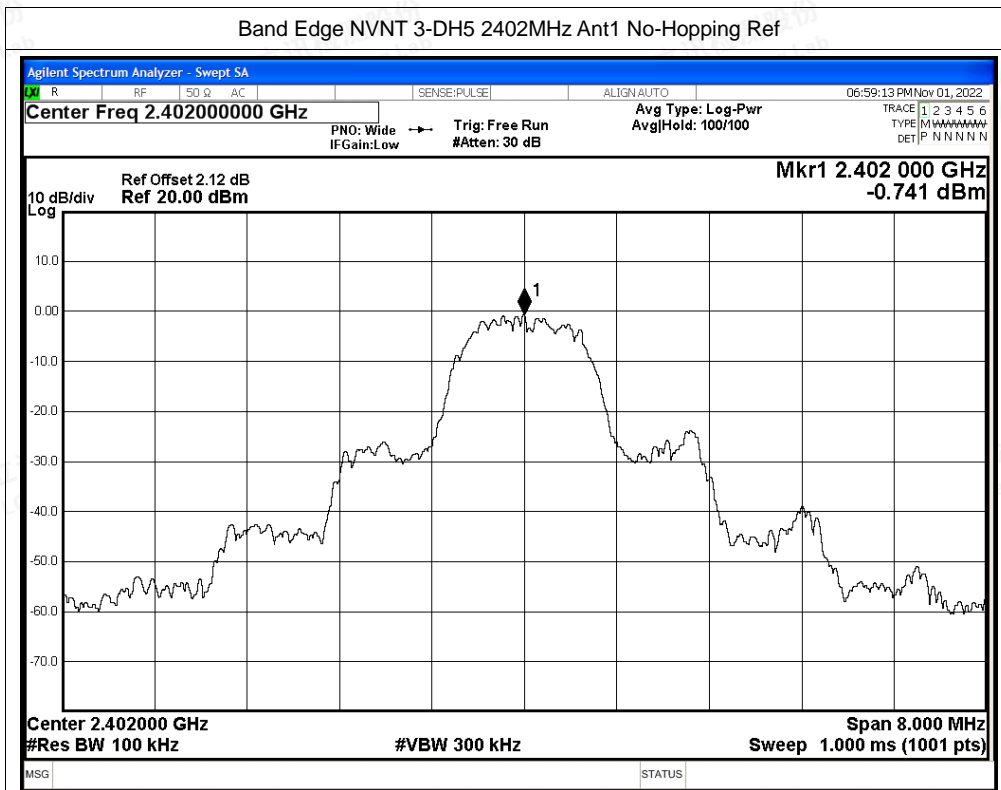


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



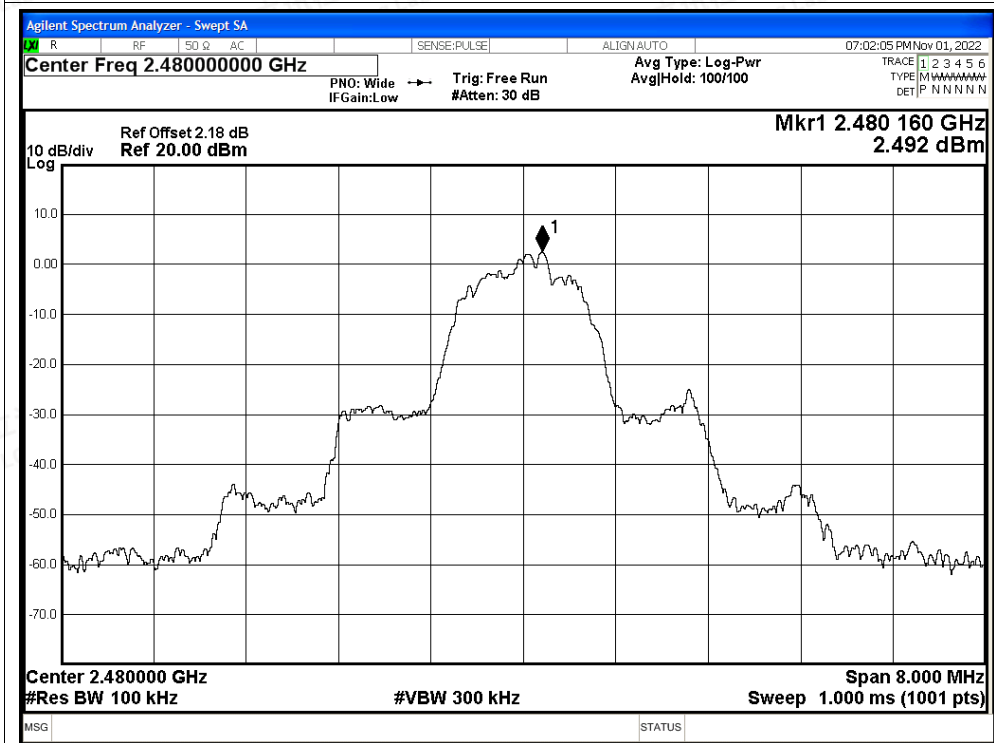
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



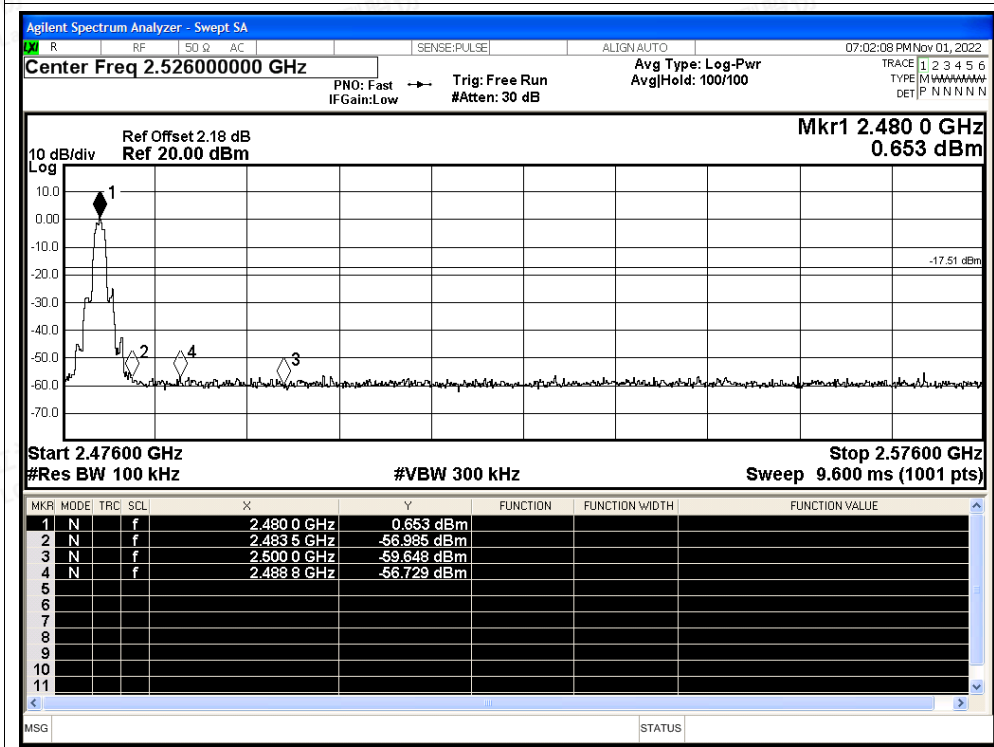




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-58.93	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.19	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.84	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.55	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.48	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.25	-20	Pass

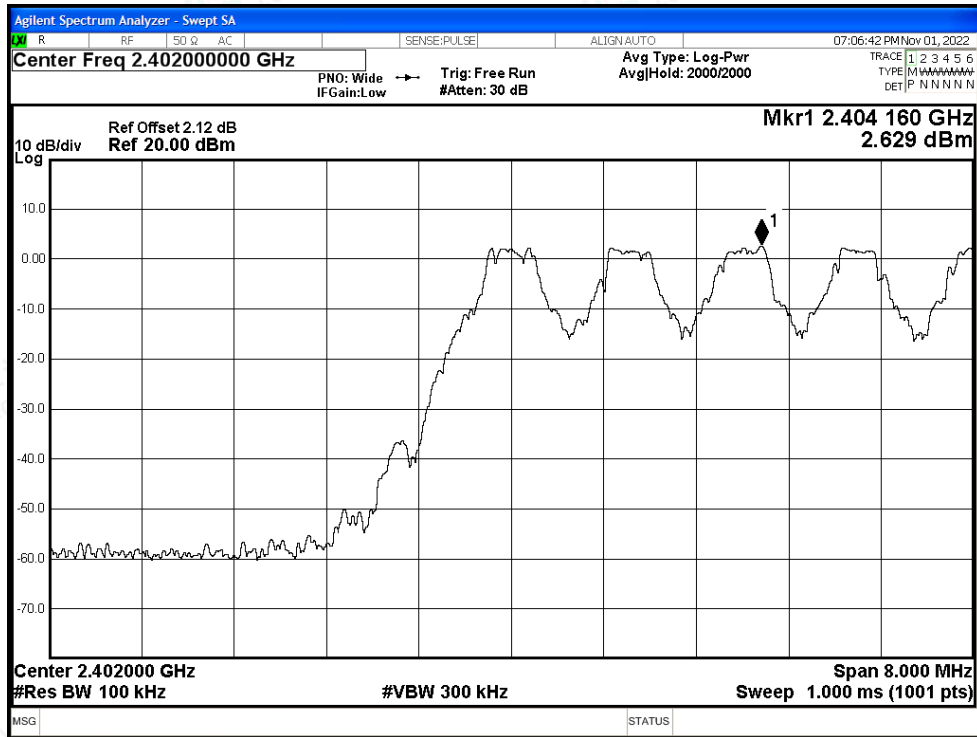


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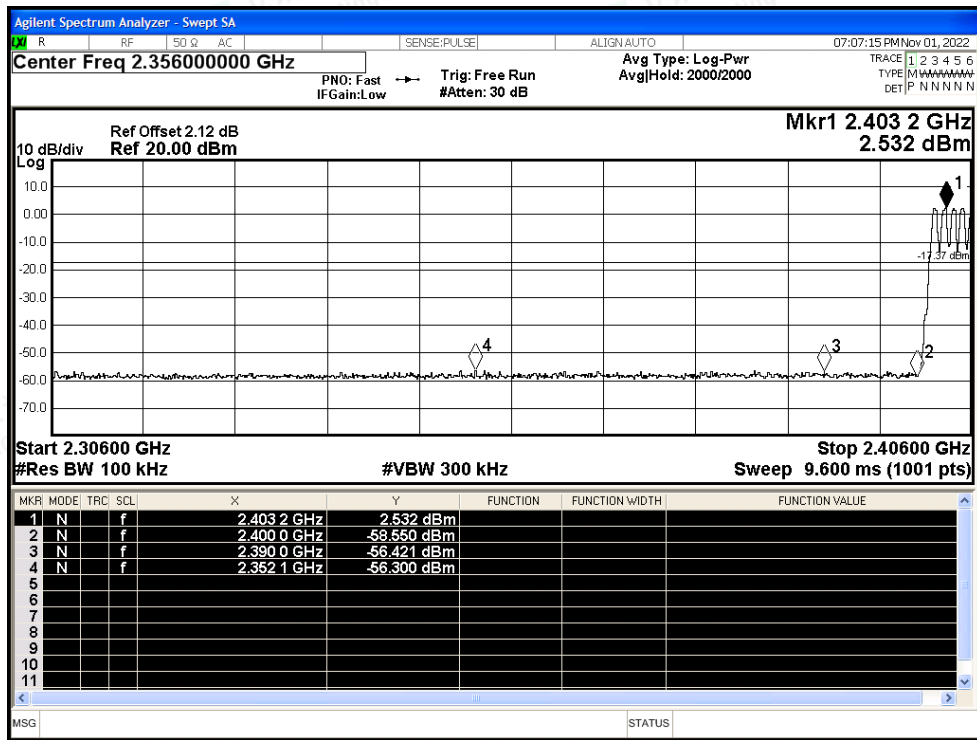


Test Graphs

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

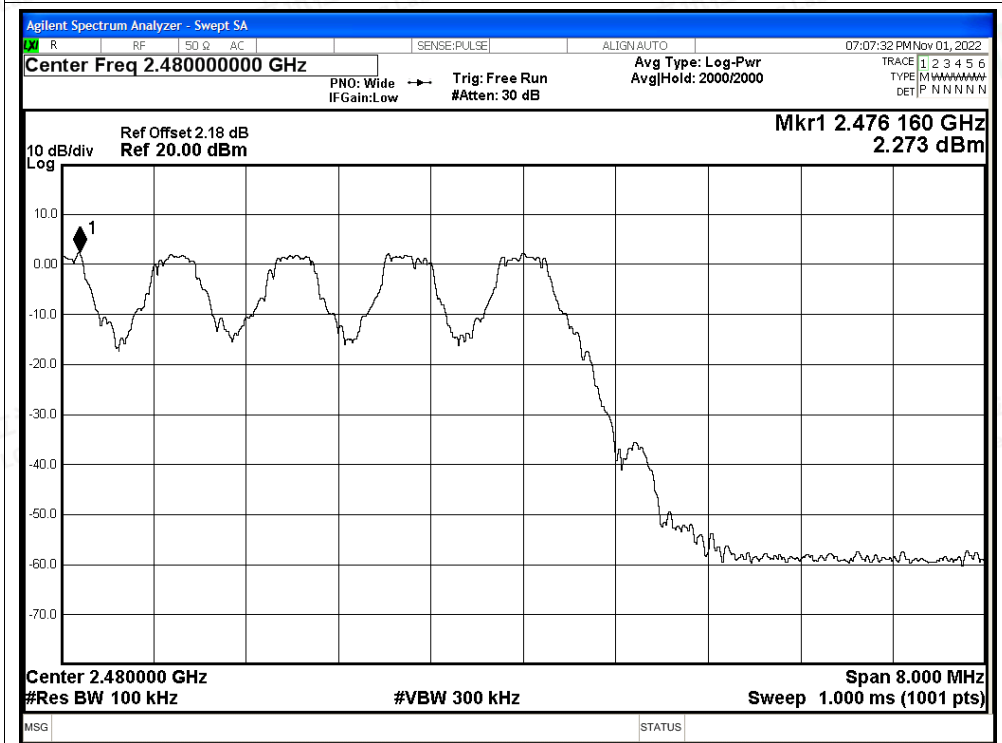


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

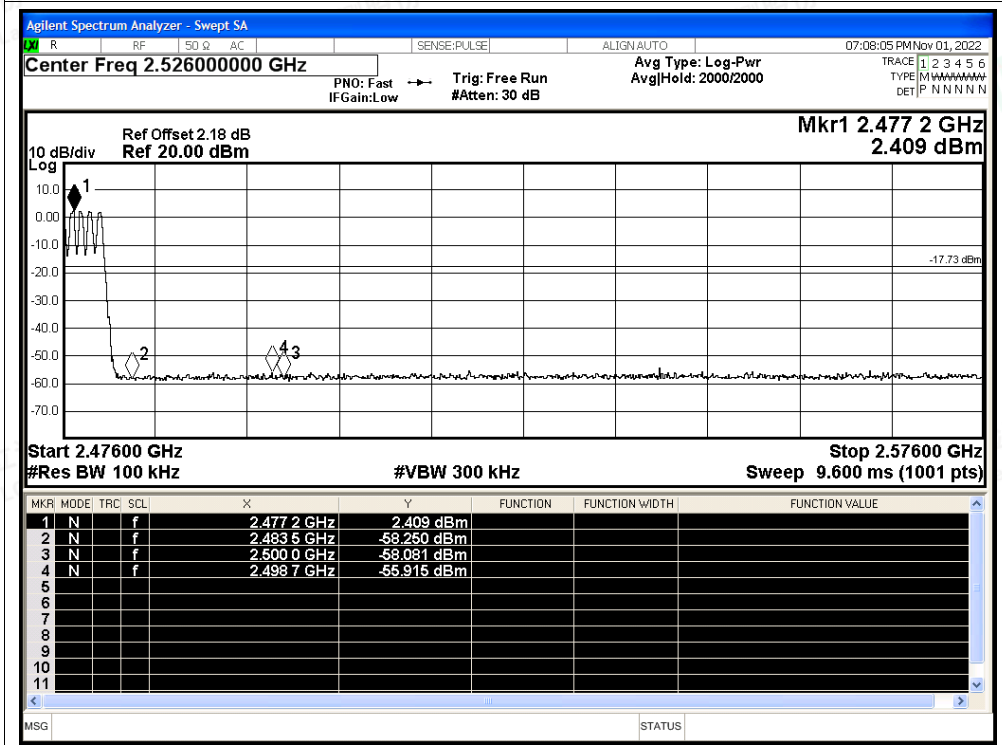


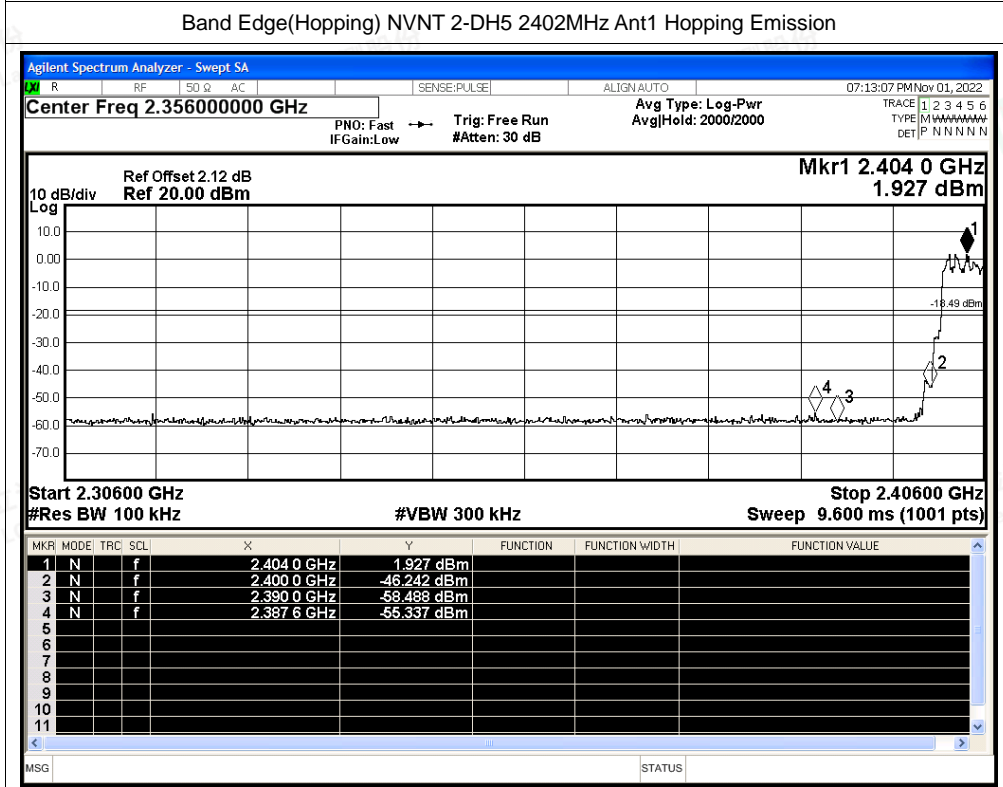
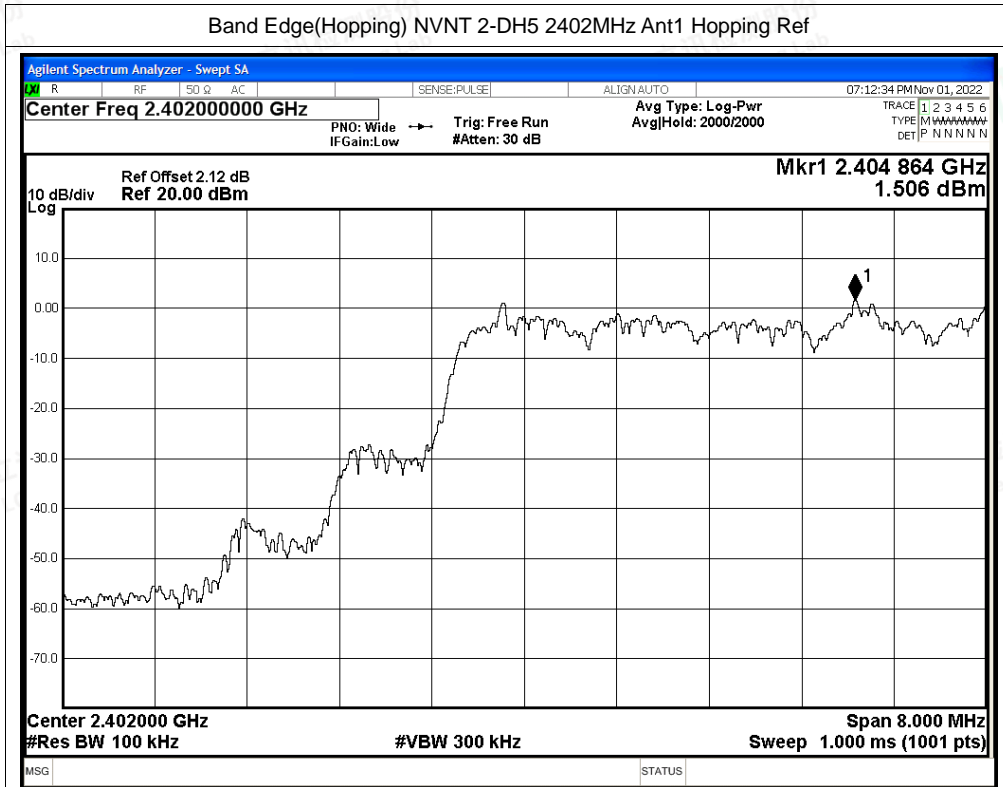


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



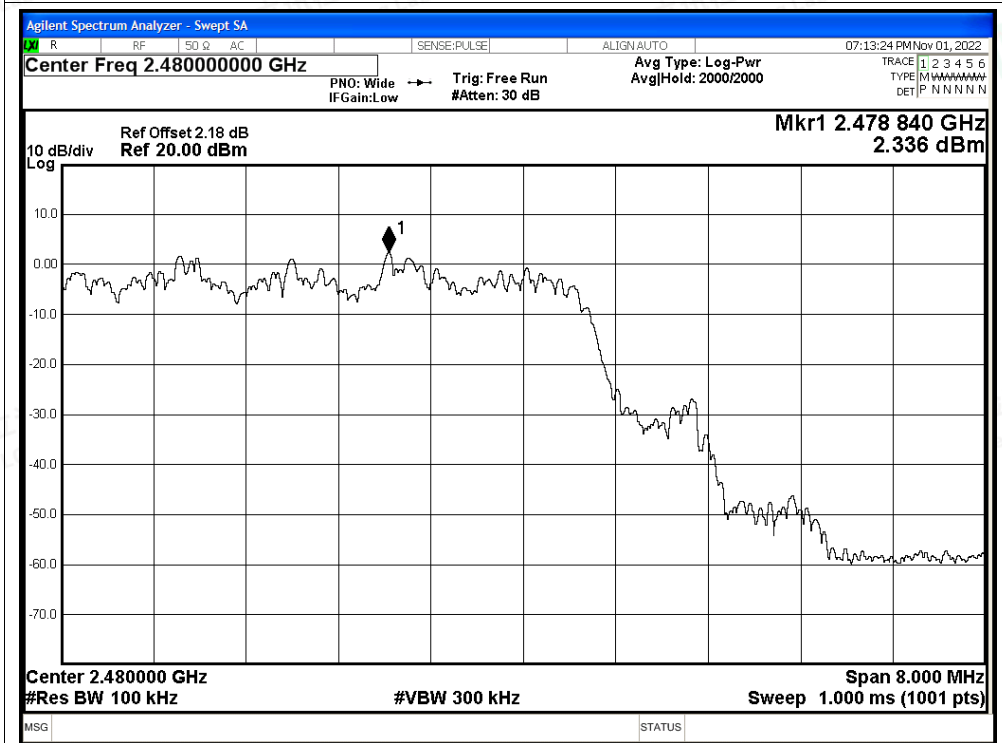
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



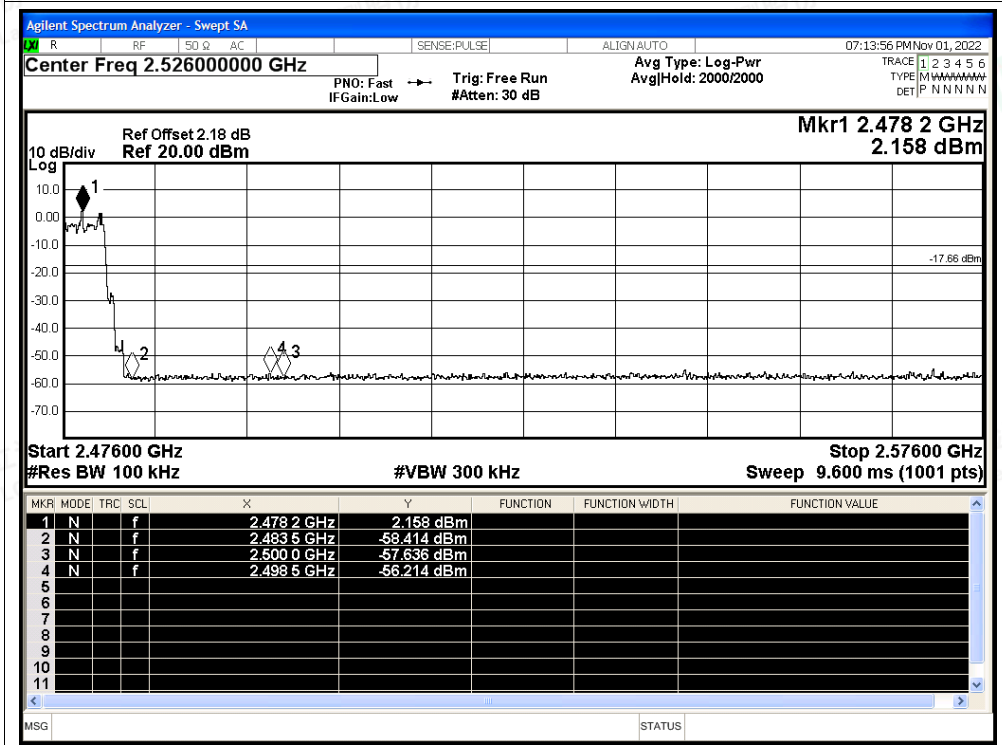


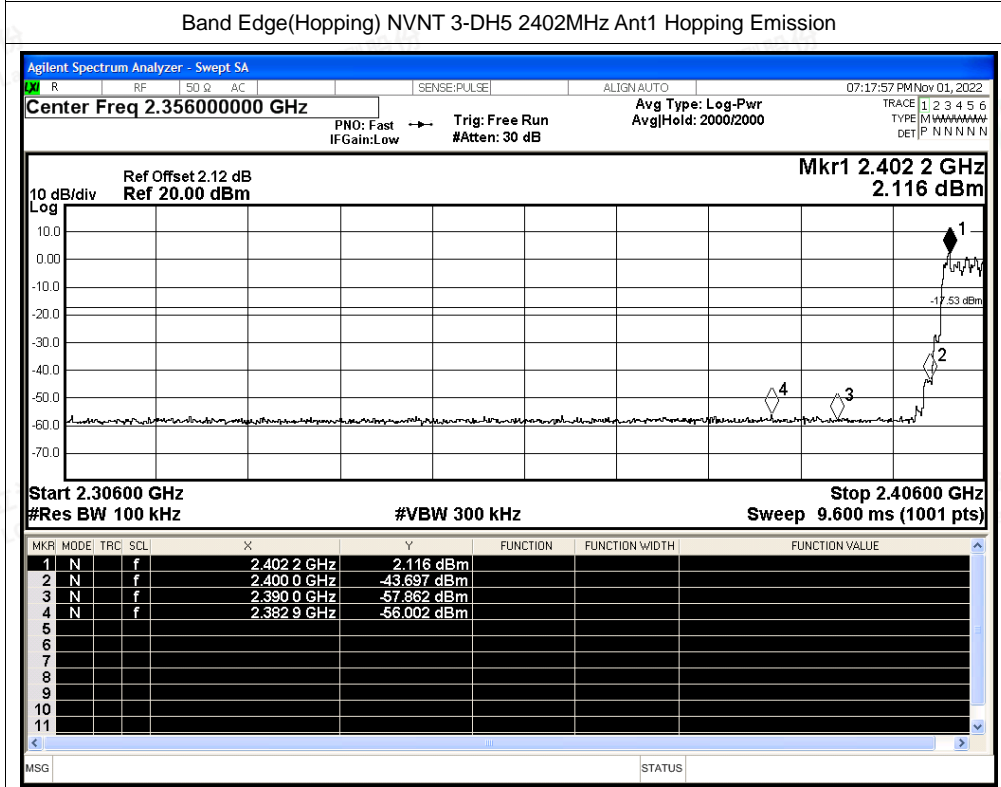
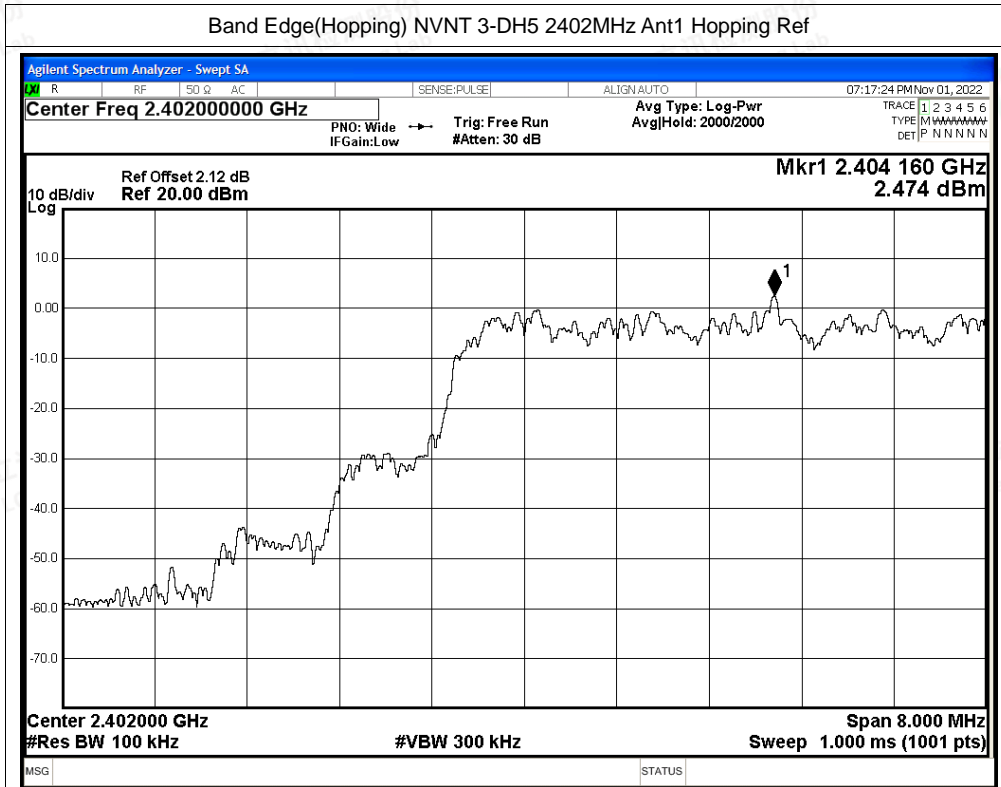


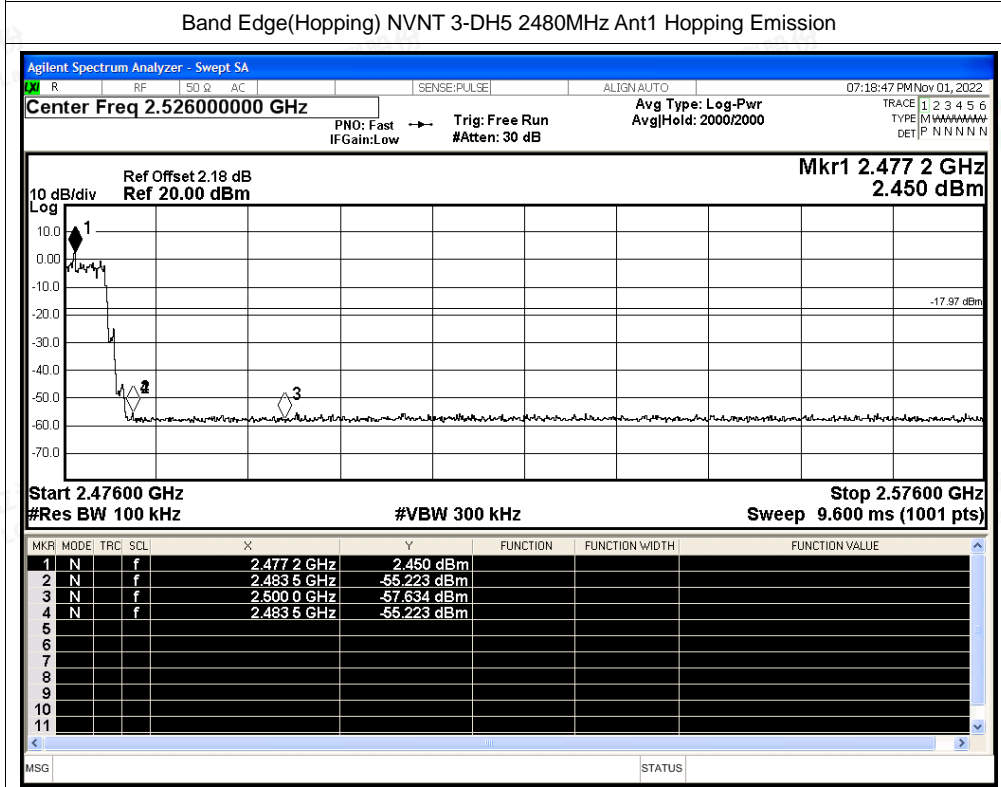
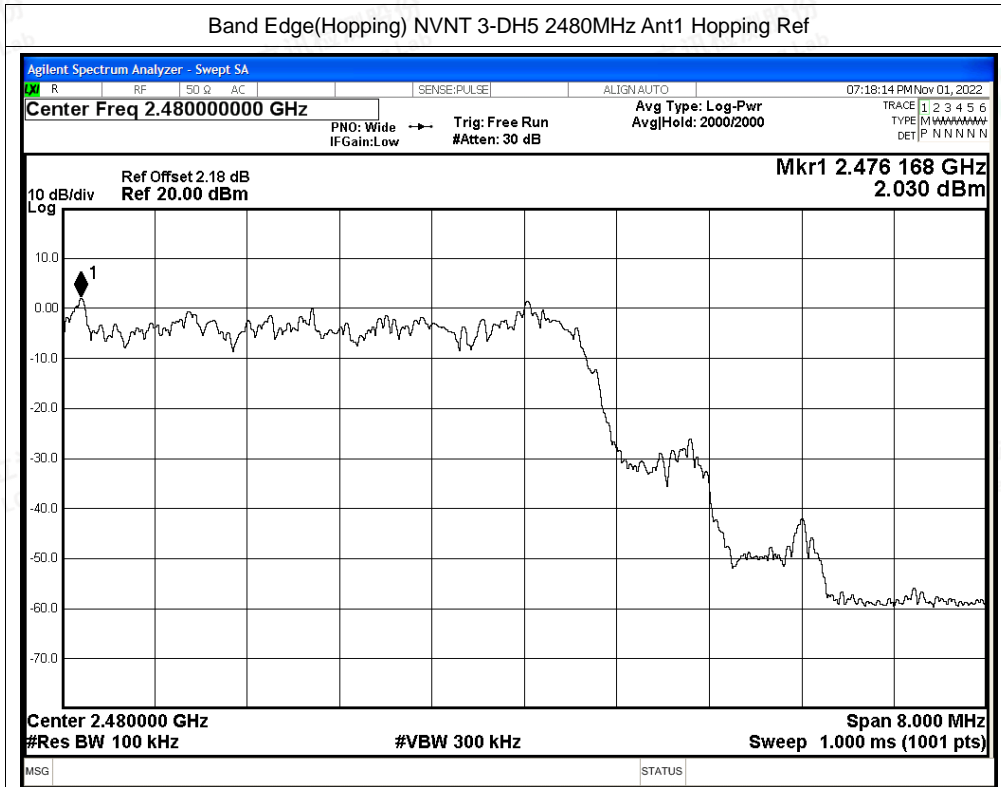
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-57.25	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.23	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.2	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.33	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.19	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.76	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.39	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.43	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.82	-20	Pass

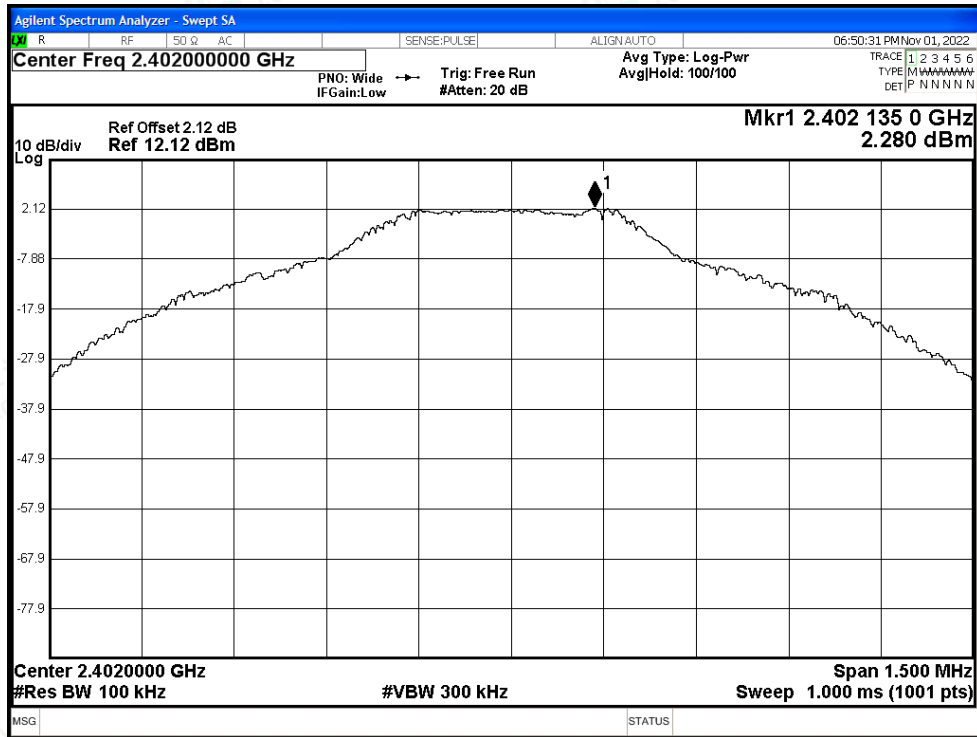


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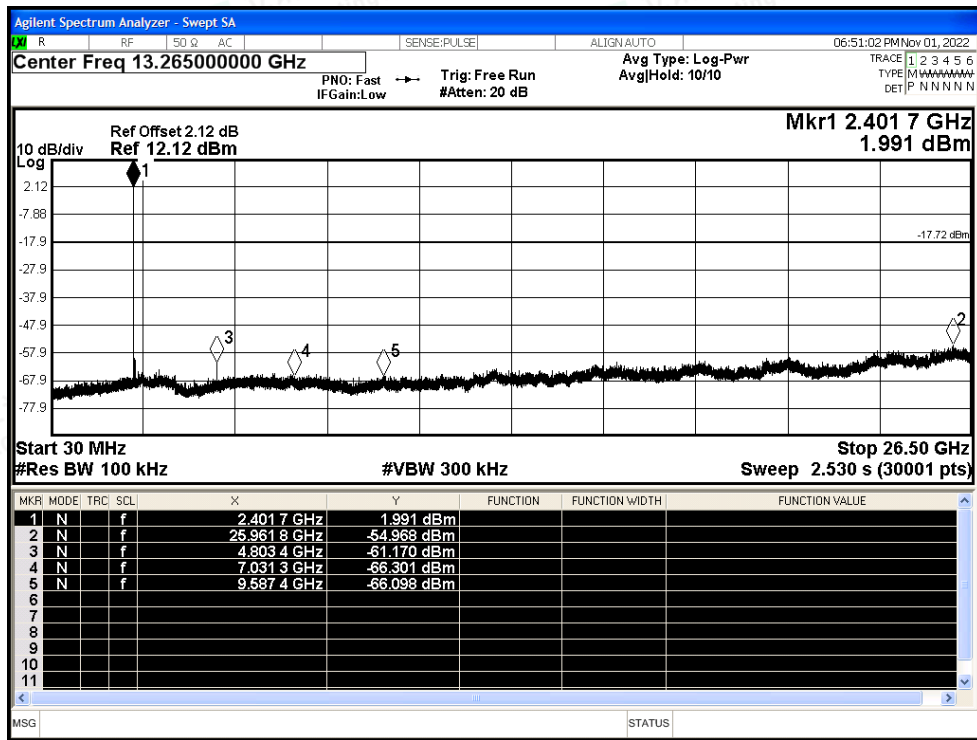


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

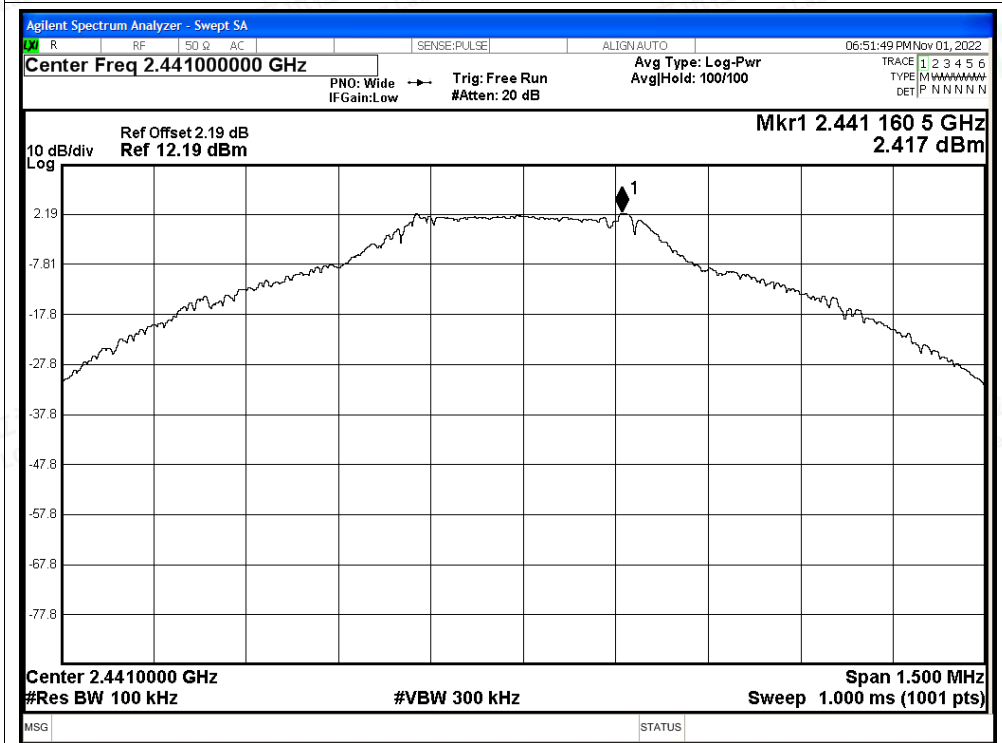


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

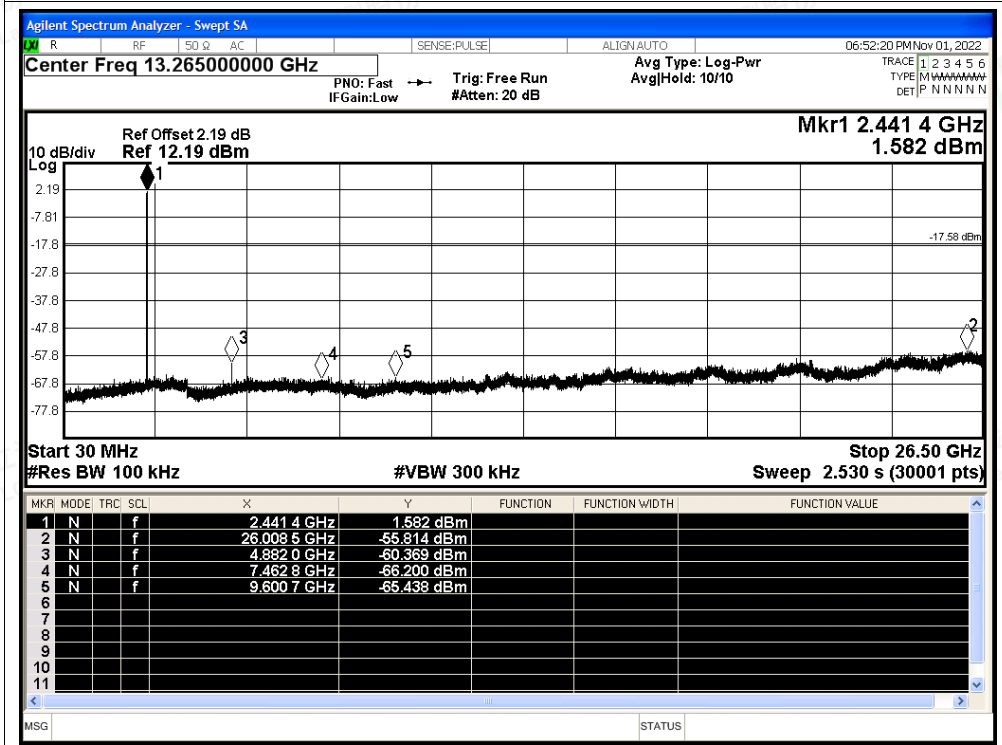




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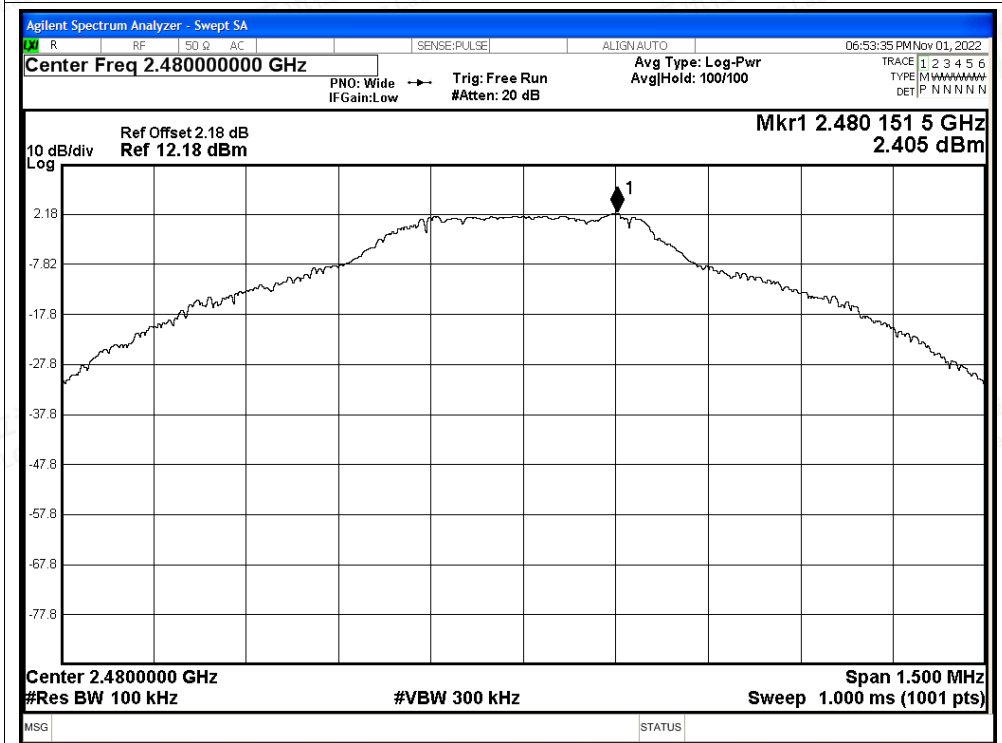


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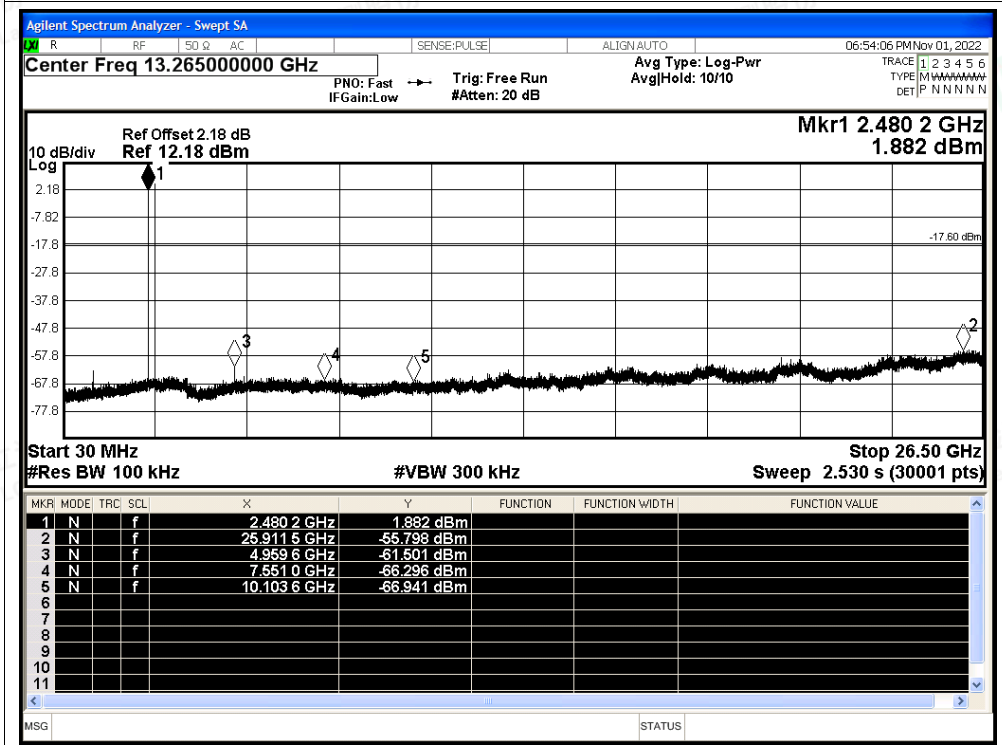




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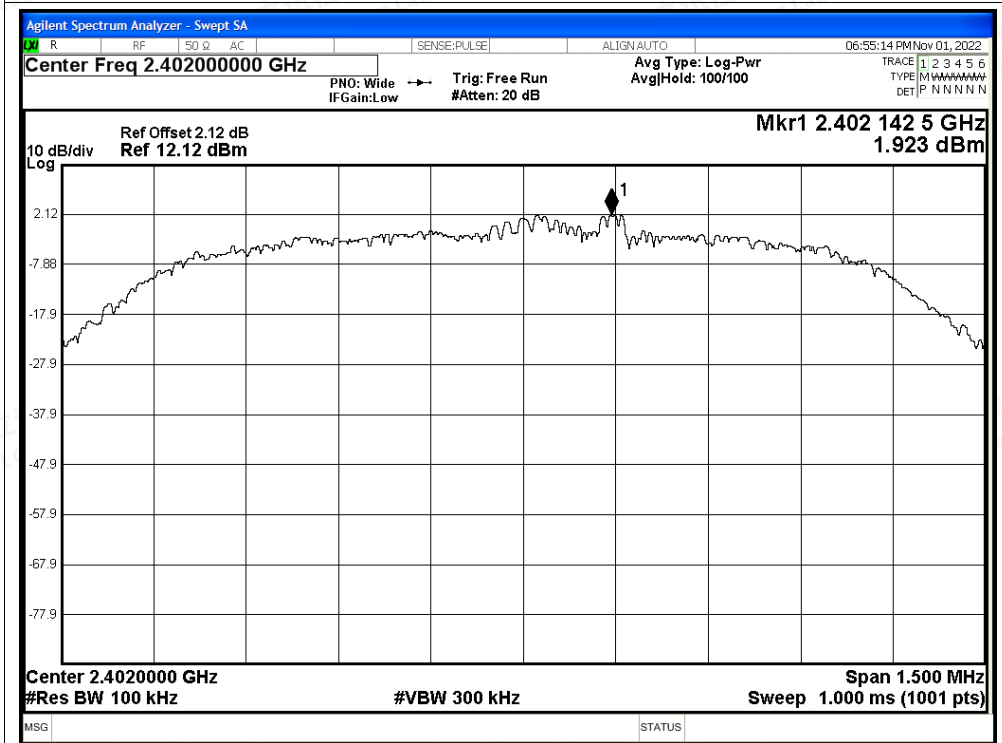


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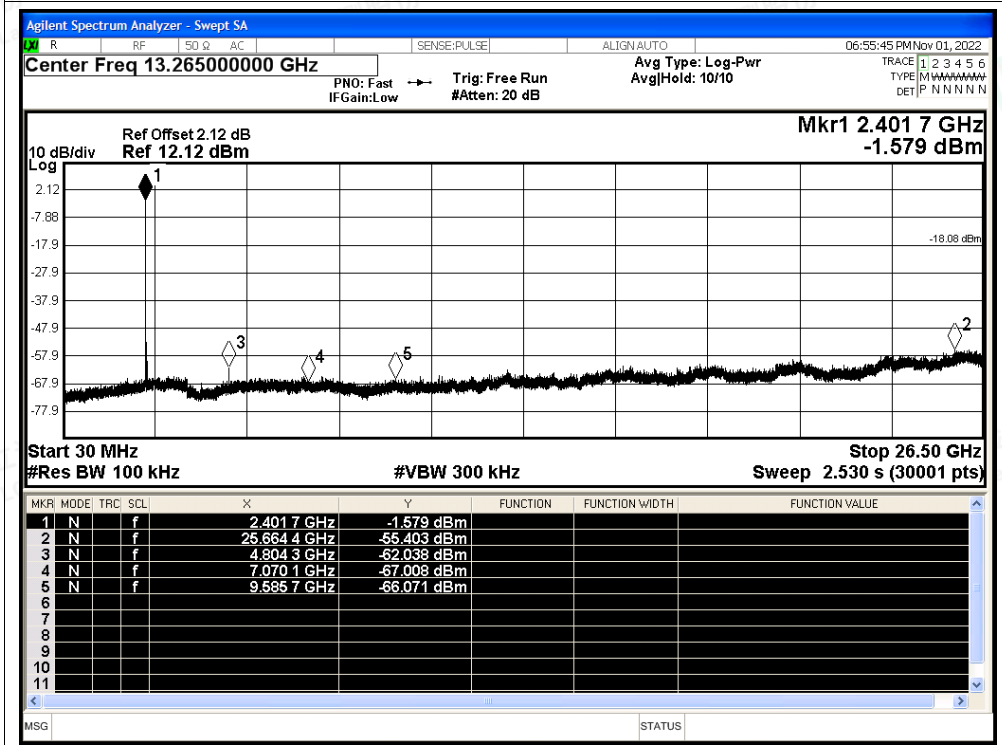




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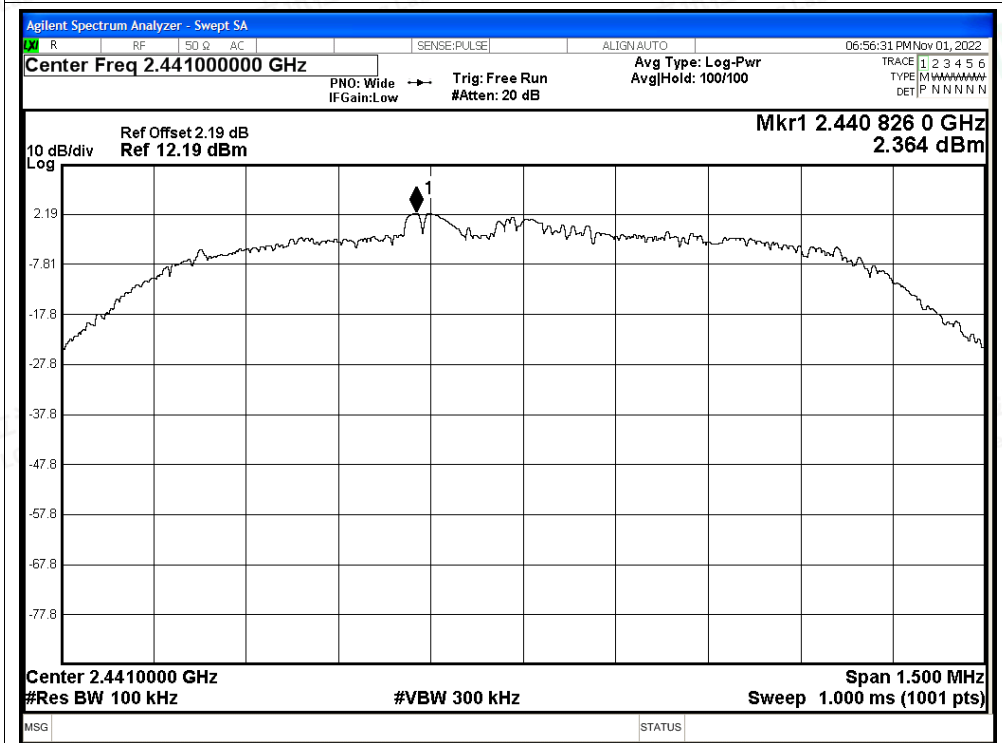


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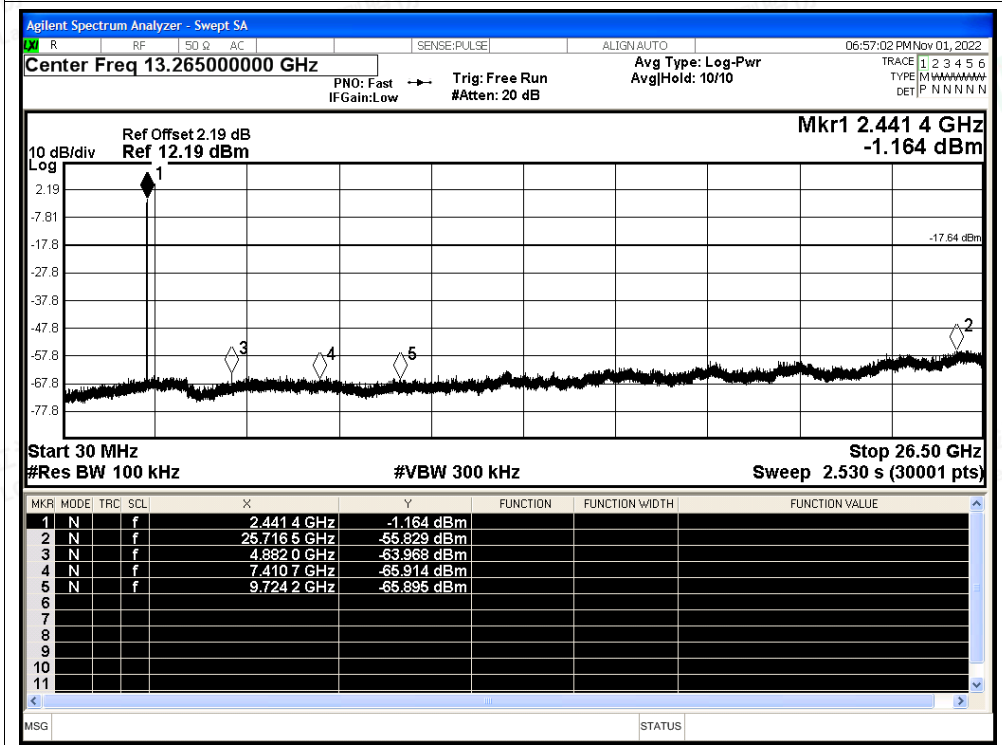




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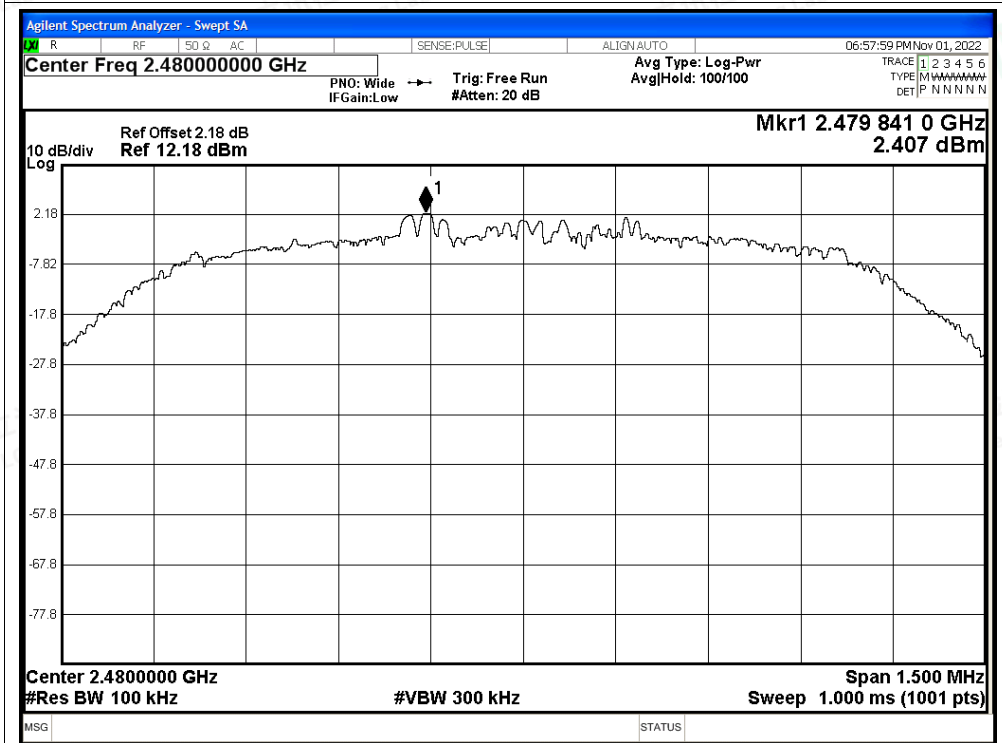


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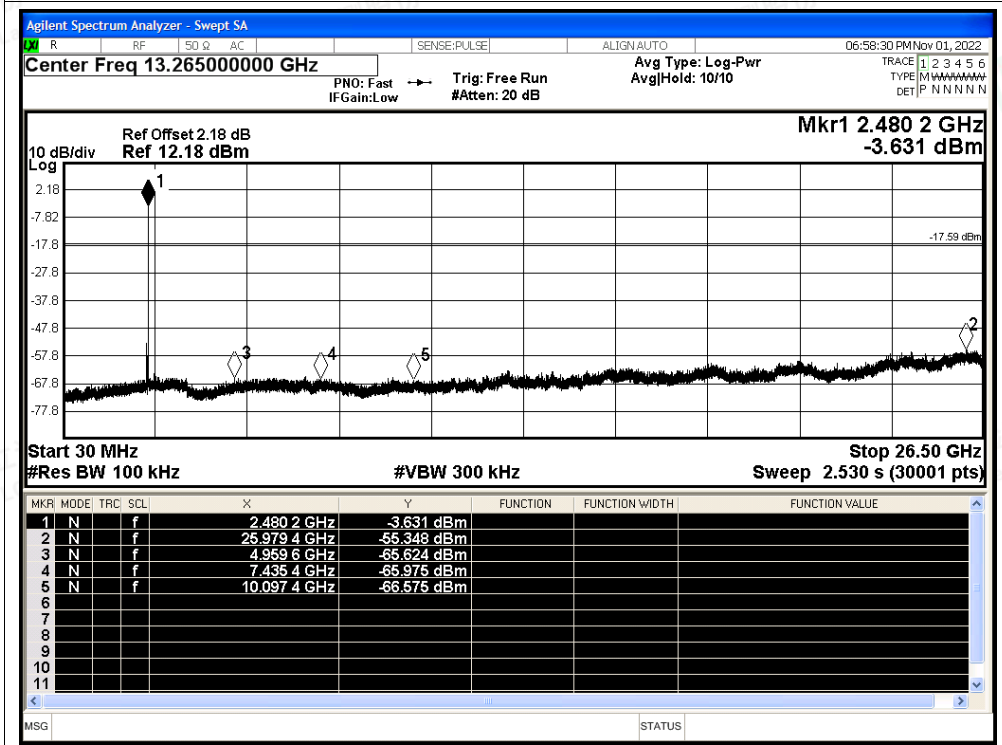




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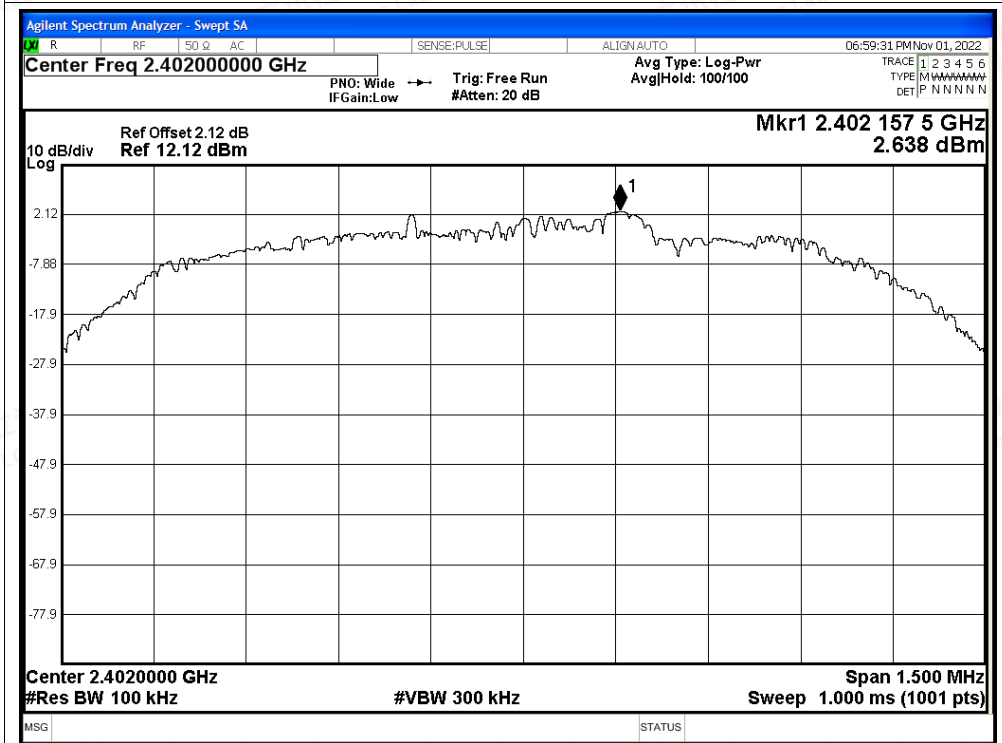


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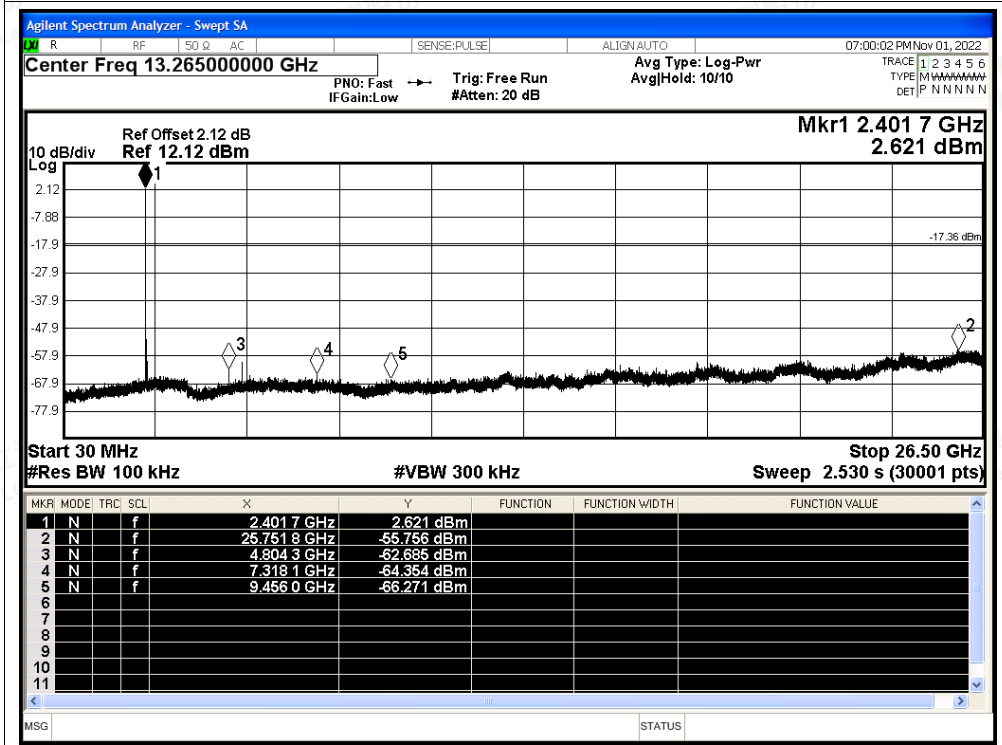




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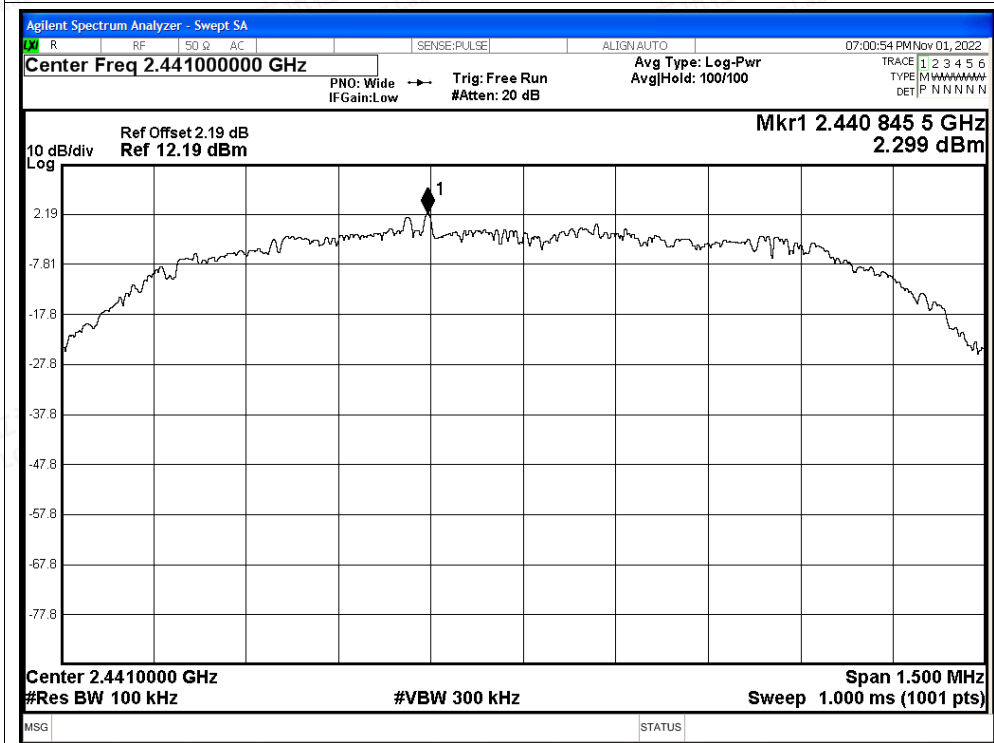


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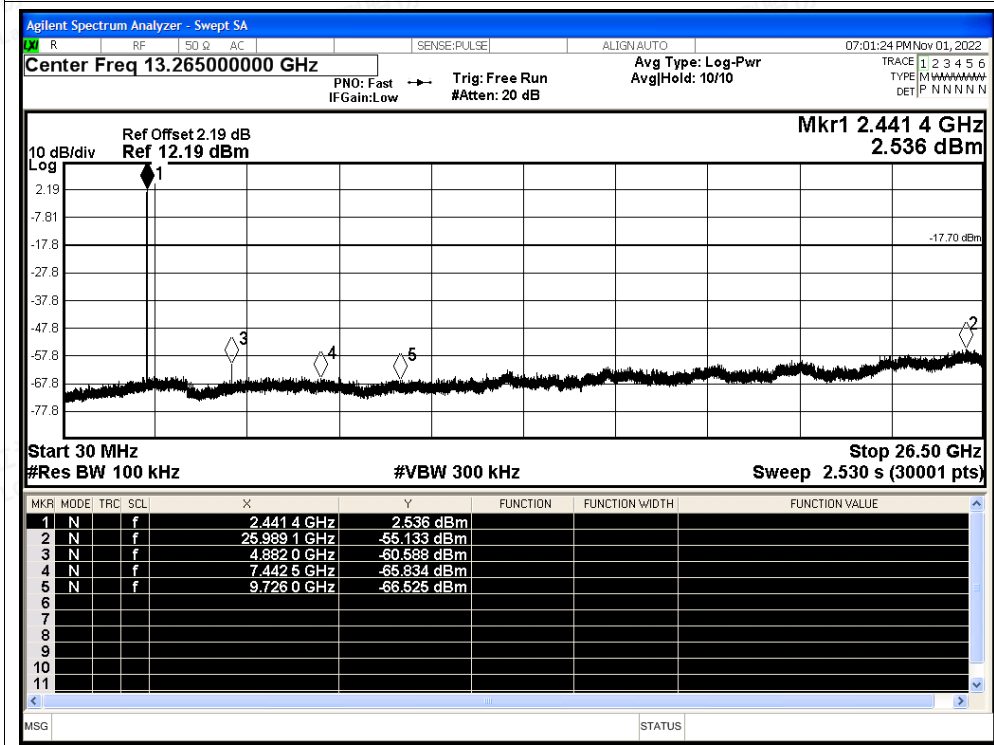




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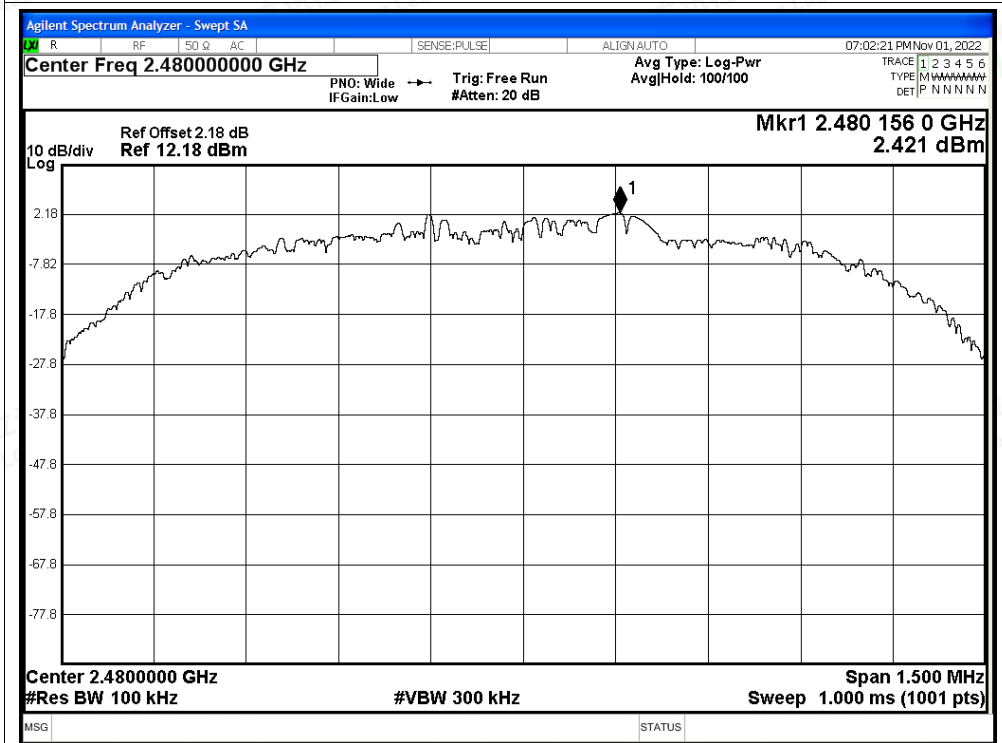


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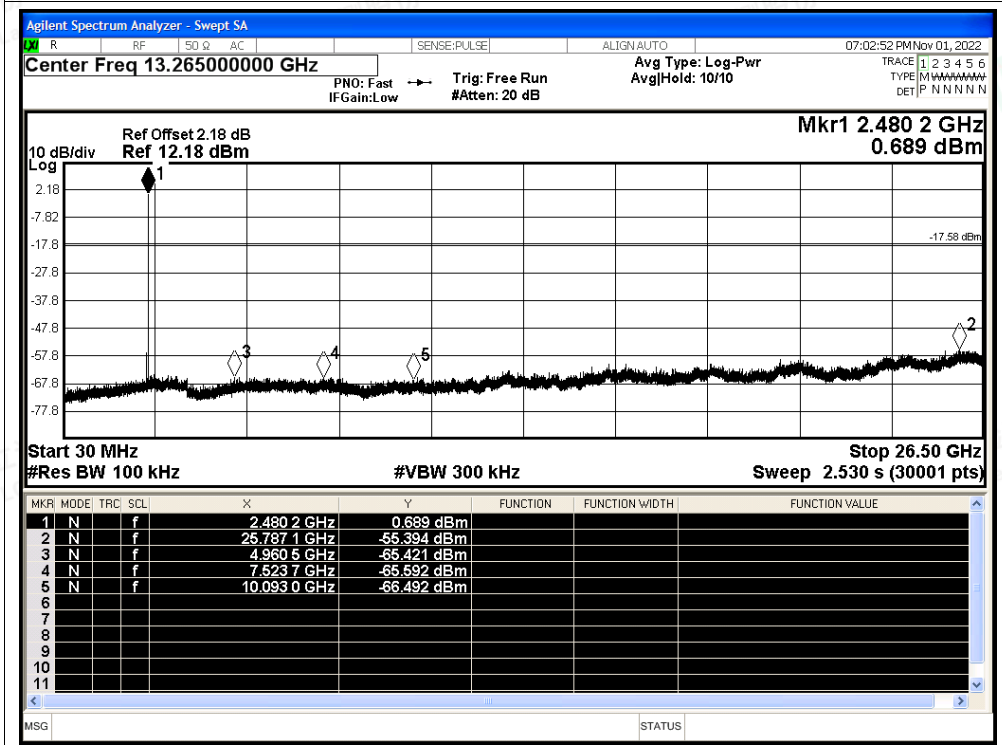




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-52	2	45.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.35	2	36.88	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.392	-47.3	2	49.93	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.72	-59.9	2	37.33	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.3	2	45.93	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.02	2	37.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.07	2	47.16	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.1	2	38.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.456	-46.08	2	51.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-59.08	2	38.15	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.74	2	47.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.68	2	37.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.04	2	47.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.33	2	36.90	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2342.352	-47.06	2	50.17	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.088	-59.78	2	37.45	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.19	2	48.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-59.81	2	37.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.15	2	51.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.64	2	39.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.584	-44.67	2	52.56	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-57.64	2	39.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.82	2	46.41	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.59	2	37.64	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.72	2	45.51	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.29	2	36.94	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2345.808	-47.33	2	49.90	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.68	-59.85	2	37.38	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.57	2	46.66	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.01	2	37.22	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47	2	50.23	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.76	2	39.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-43.13	2	54.10	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-57.76	2	39.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.57	2	46.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.48	2	37.75	Average	54	Pass

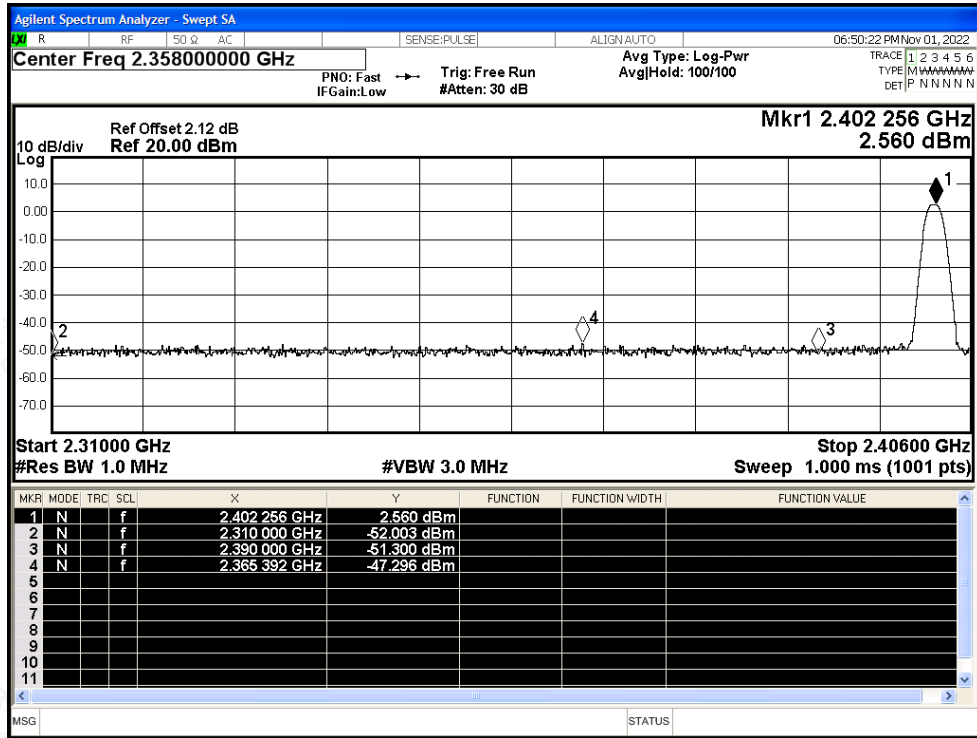


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 Scan code to check authenticity

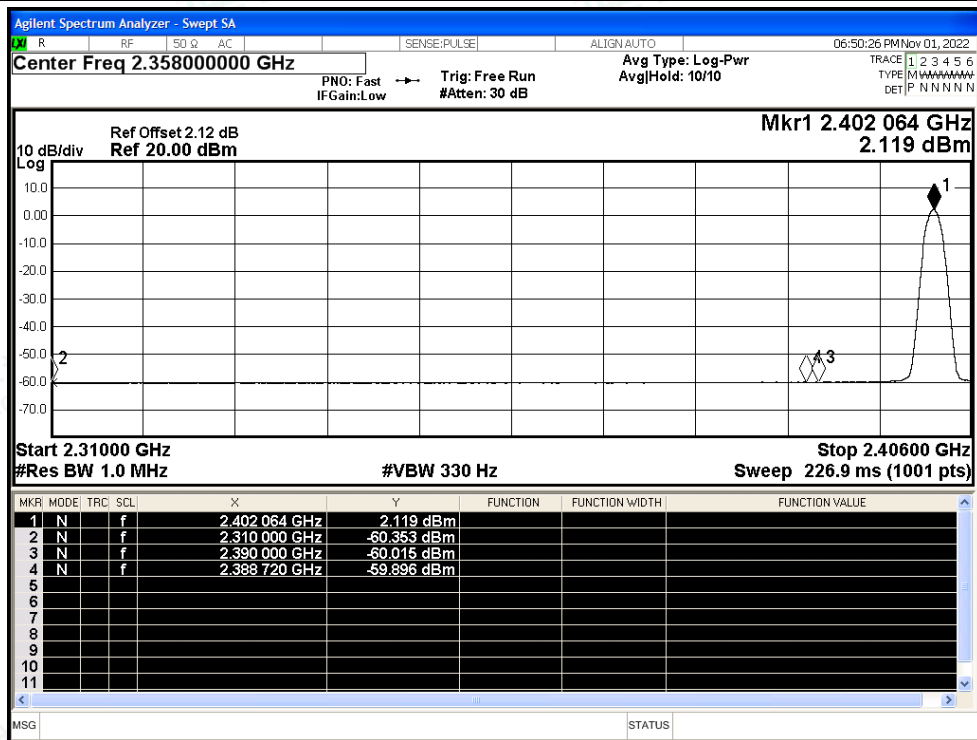


Test Graphs

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

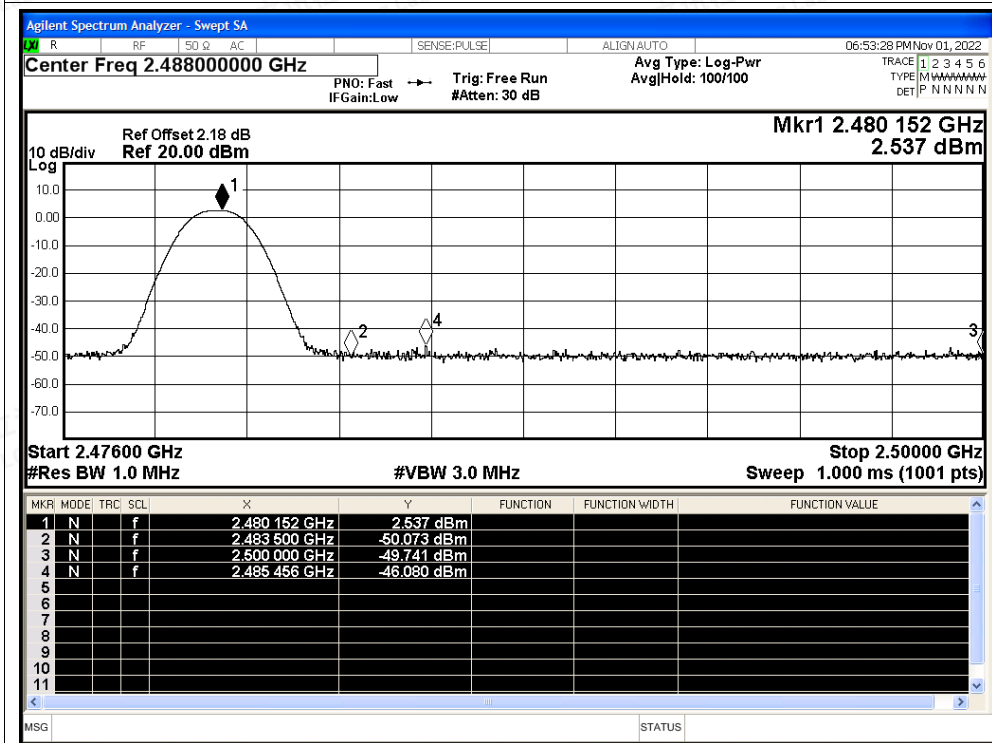


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

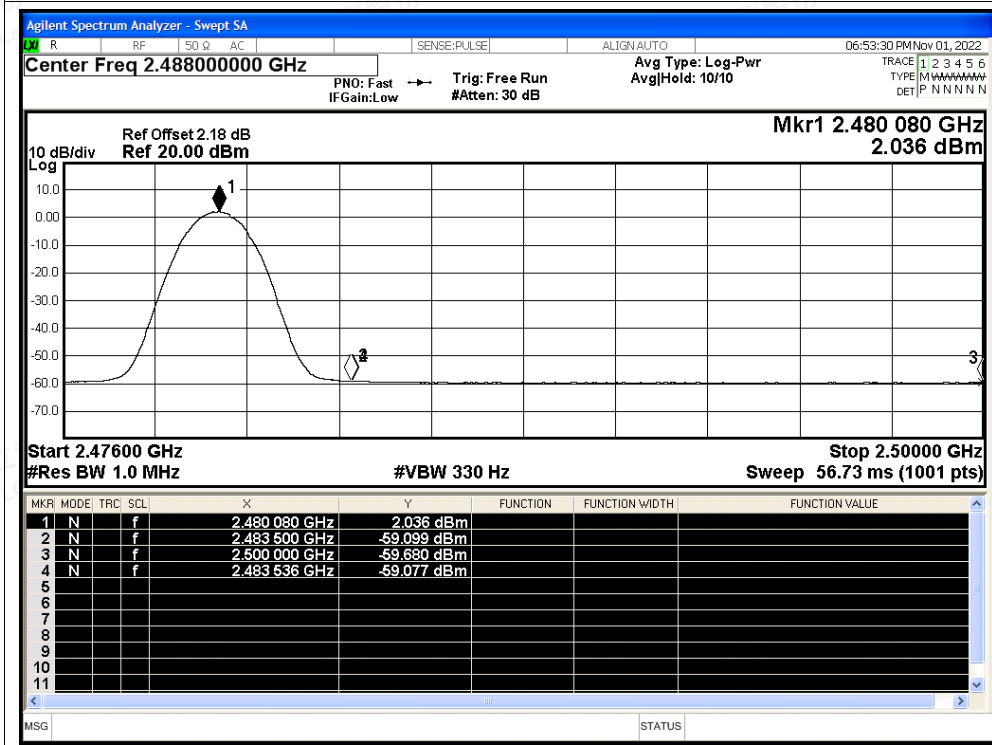




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

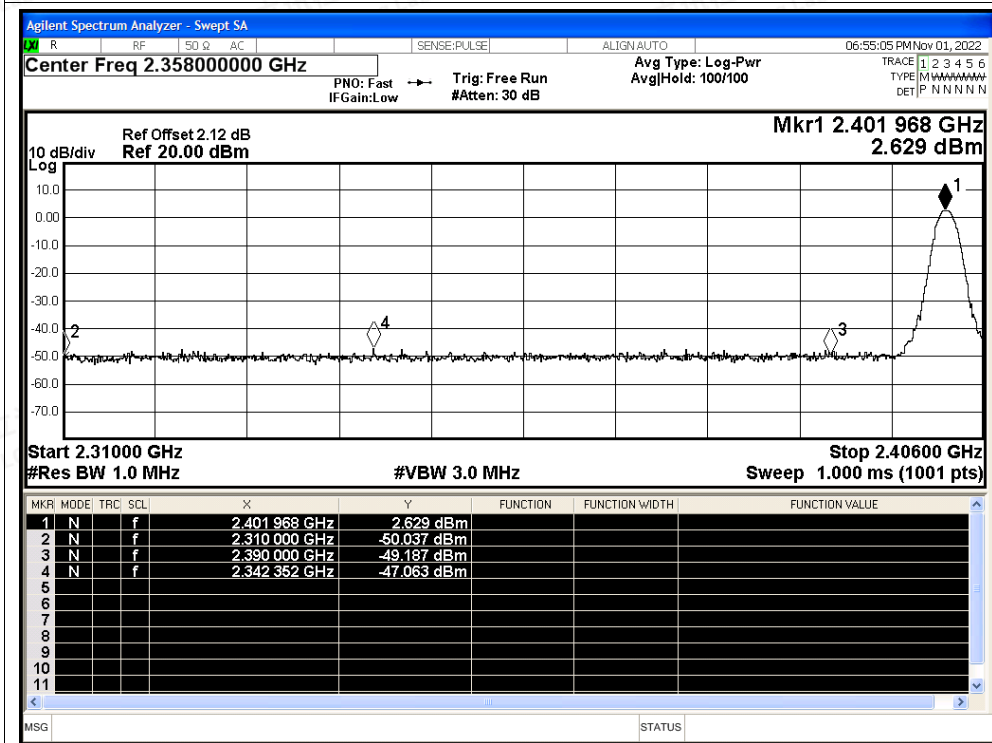


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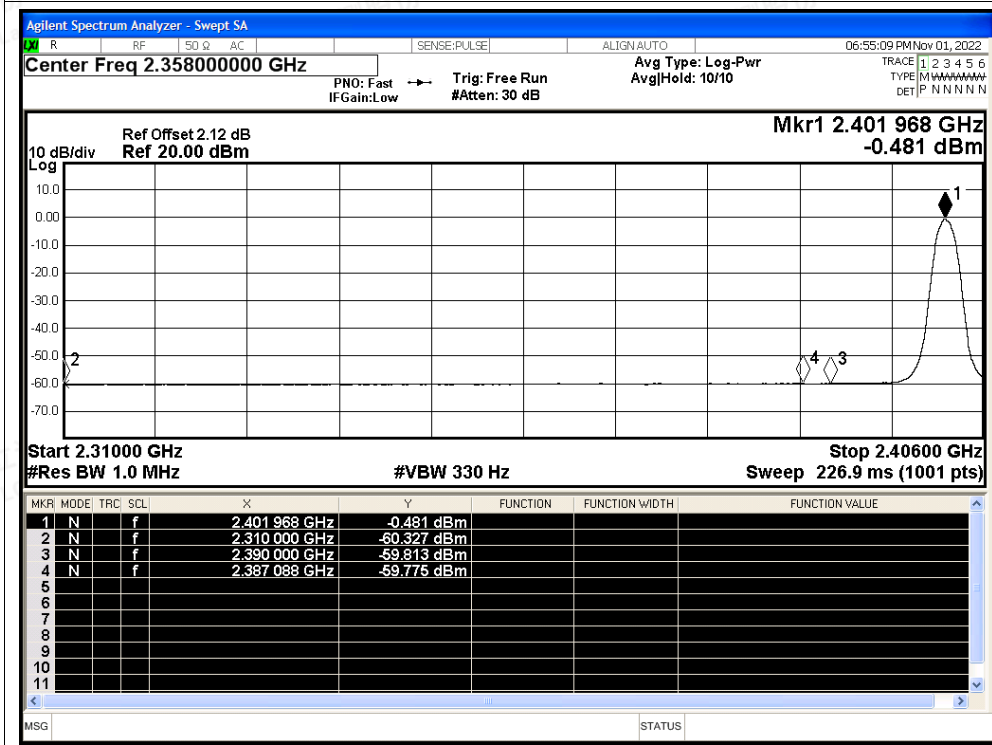




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

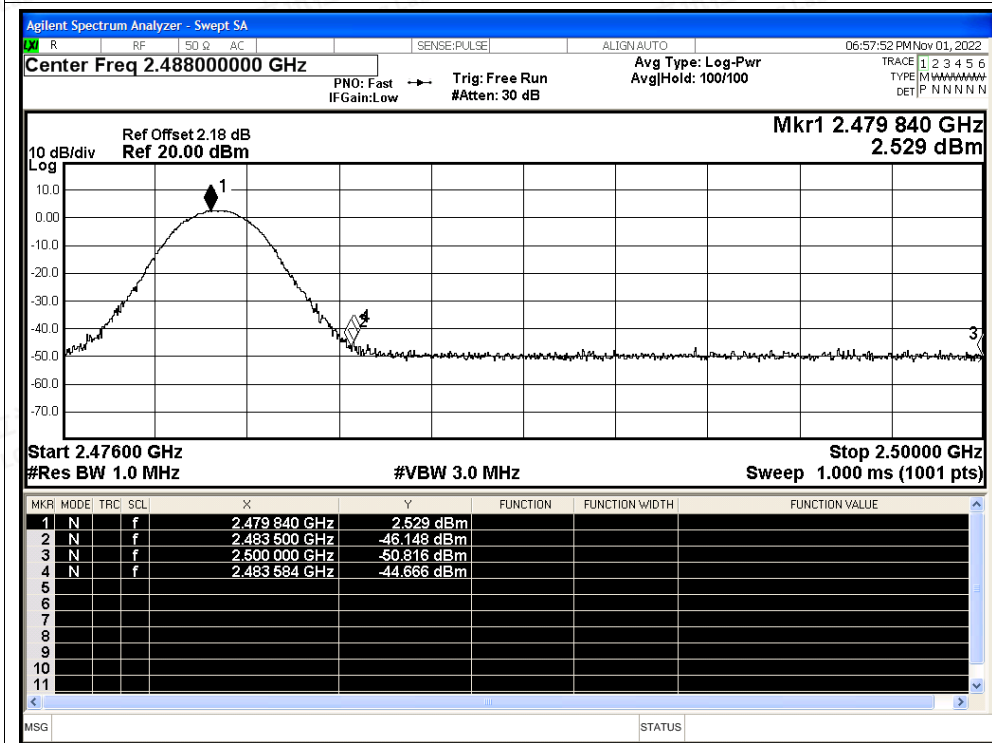


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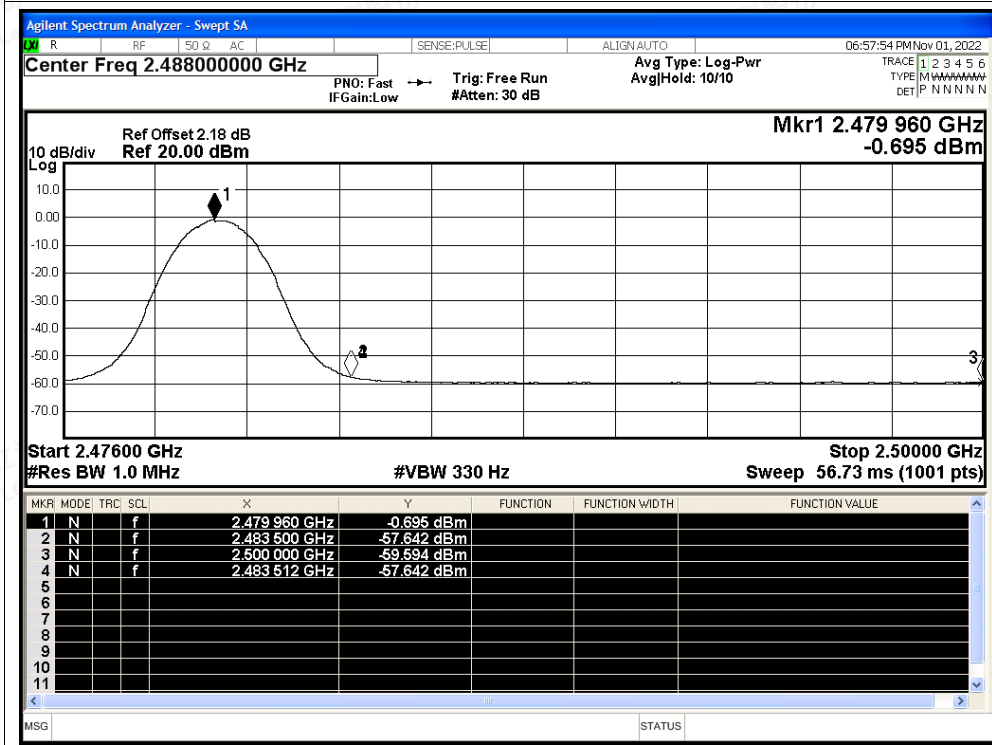




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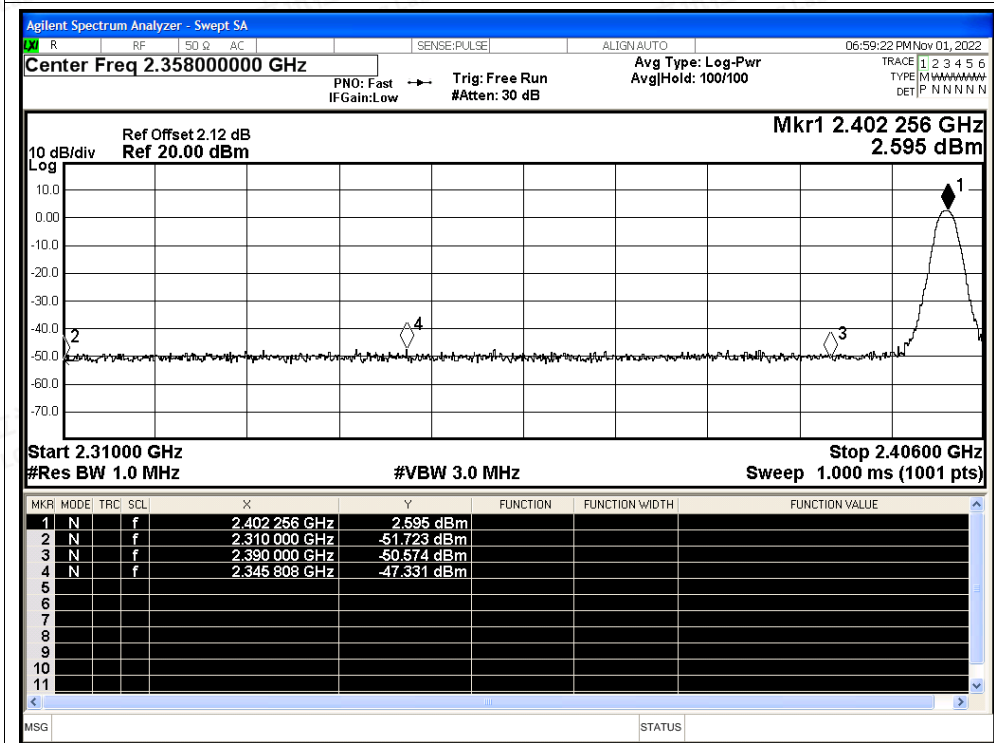


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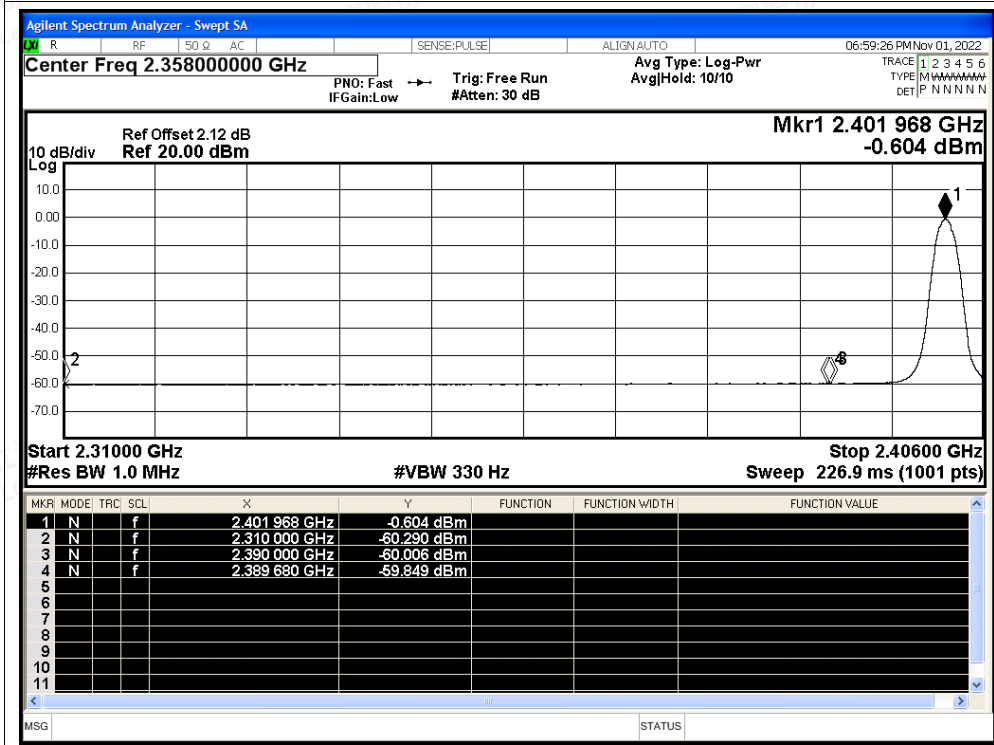




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

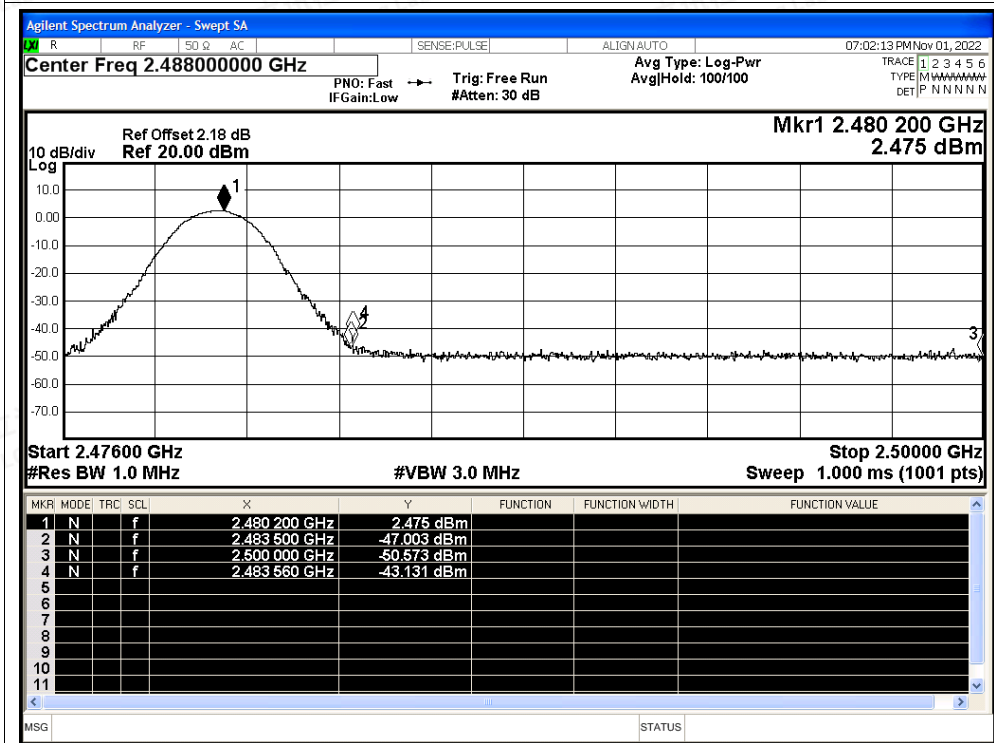


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

