



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: ECOEDGE PRO

Test Model: GDI-EXEDGPRO401

Environmental Conditions

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





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.949	Pass
NVNT	1-DH5	2441	Ant1	0.941	Pass
NVNT	1-DH5	2480	Ant1	0.949	Pass
NVNT	2-DH5	2402	Ant1	1.303	Pass
NVNT	2-DH5	2441	Ant1	1.287	Pass
NVNT	2-DH5	2480	Ant1	1.317	Pass
NVNT	3-DH5	2402	Ant1	1.292	Pass
NVNT	3-DH5	2441	Ant1	1.287	Pass
NVNT	3-DH5	2480	Ant1	1.292	Pass

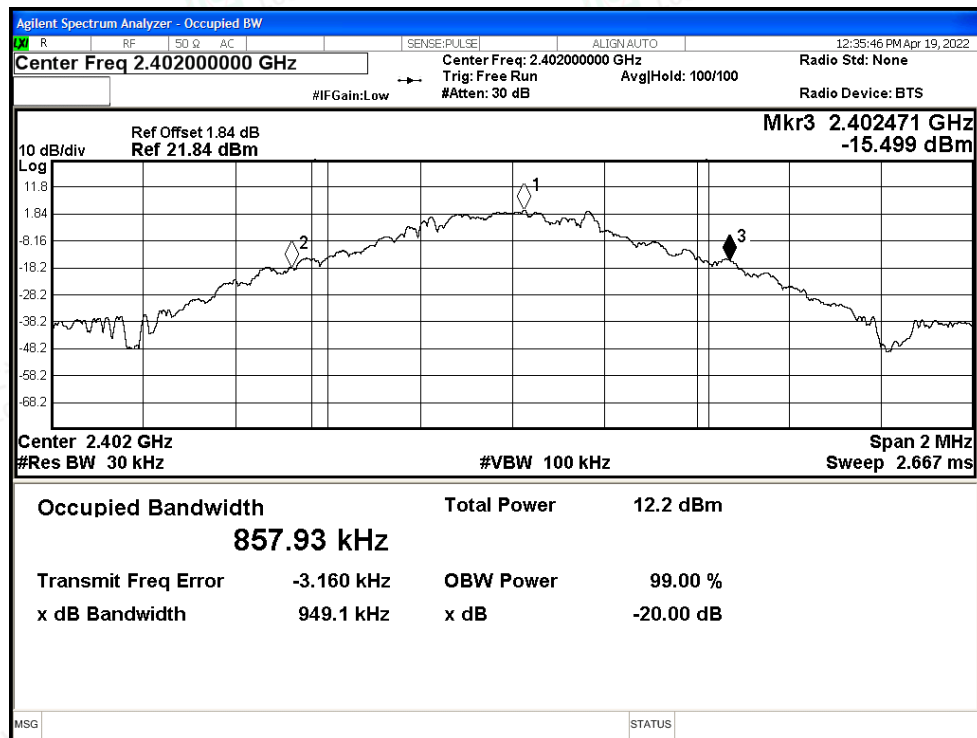


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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

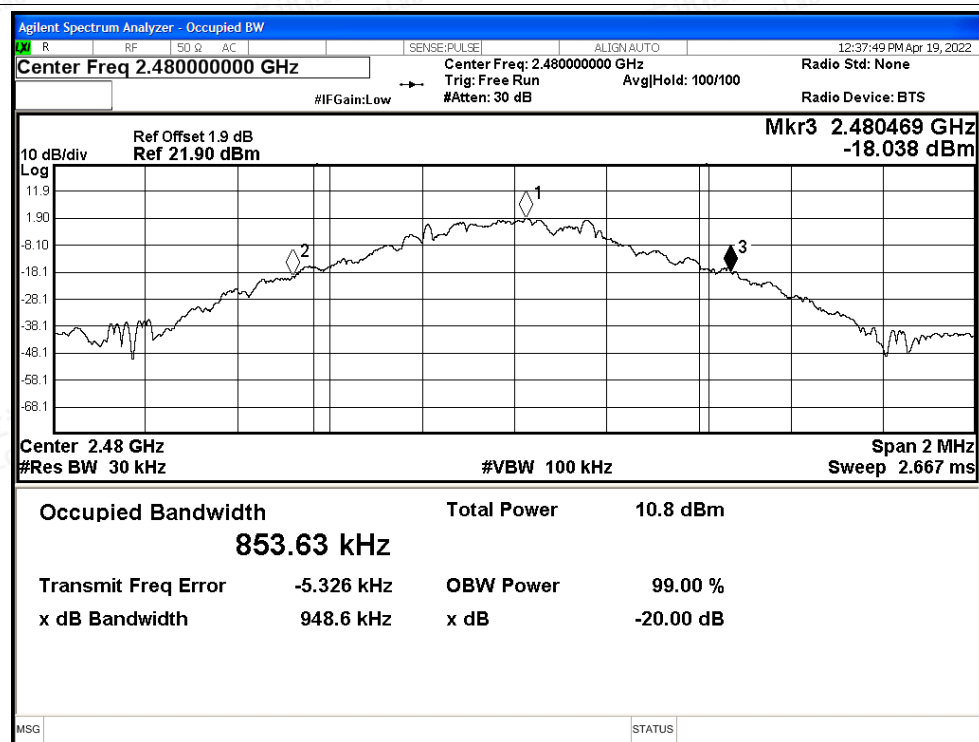


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

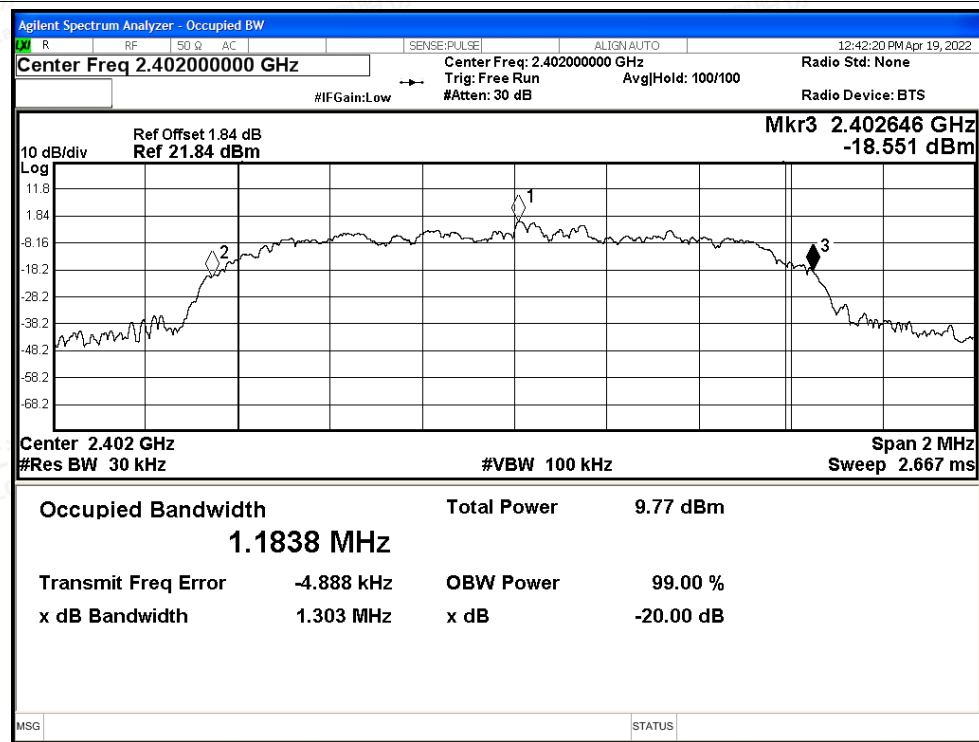




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

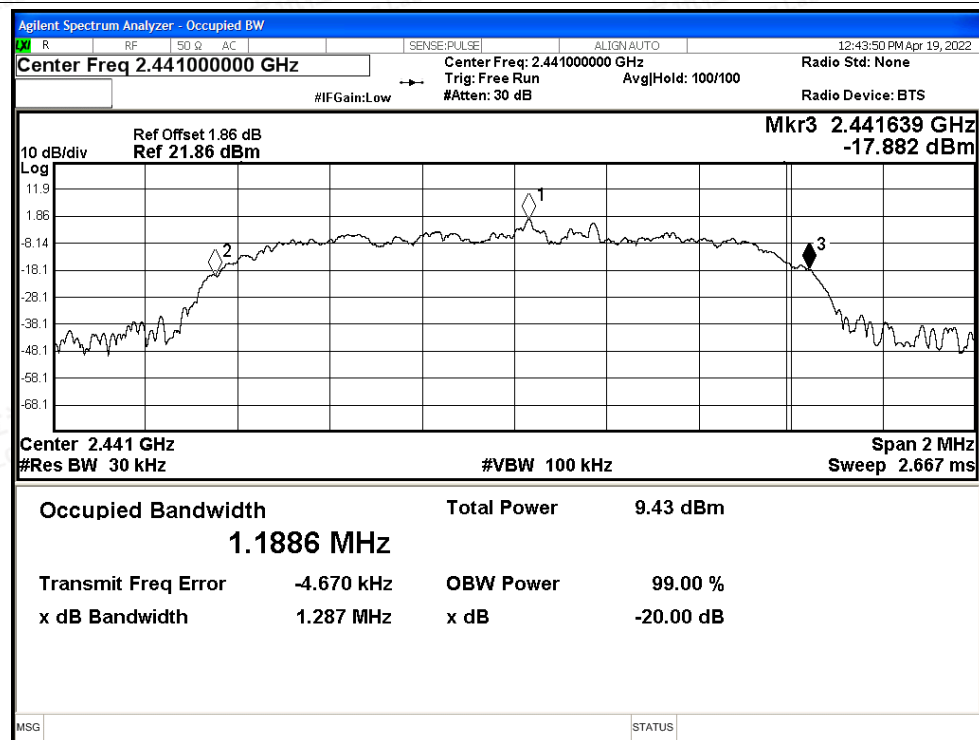


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

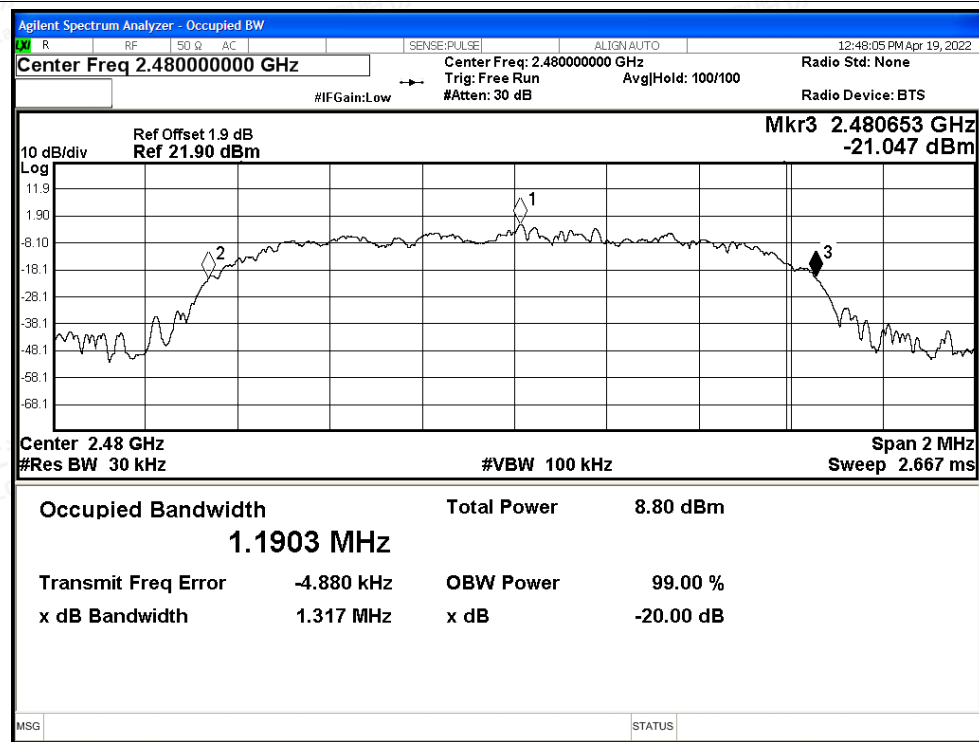




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

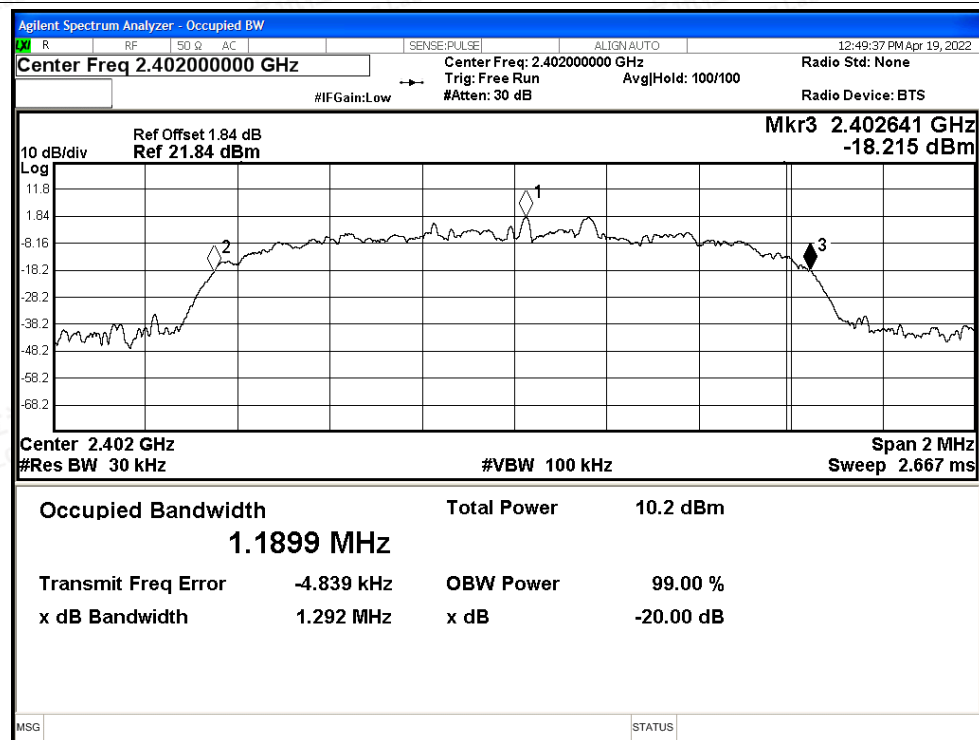


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

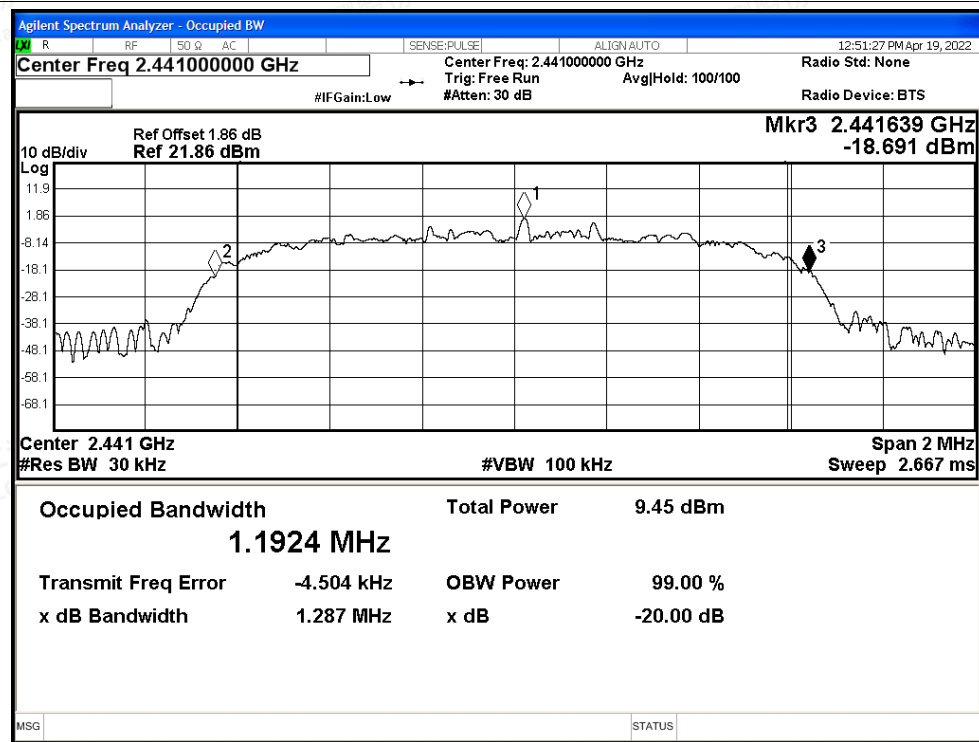


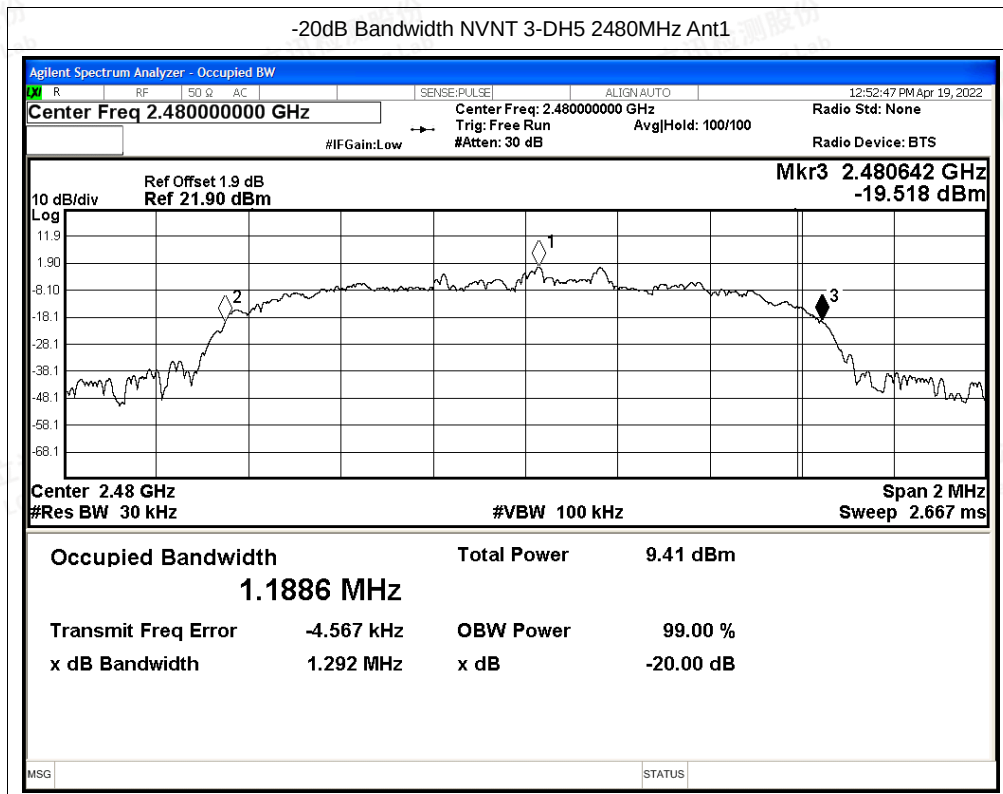


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.863
NVNT	1-DH5	2441	Ant1	0.862
NVNT	1-DH5	2480	Ant1	0.856
NVNT	2-DH5	2402	Ant1	1.193
NVNT	2-DH5	2441	Ant1	1.186
NVNT	2-DH5	2480	Ant1	1.189
NVNT	3-DH5	2402	Ant1	1.197
NVNT	3-DH5	2441	Ant1	1.184
NVNT	3-DH5	2480	Ant1	1.202

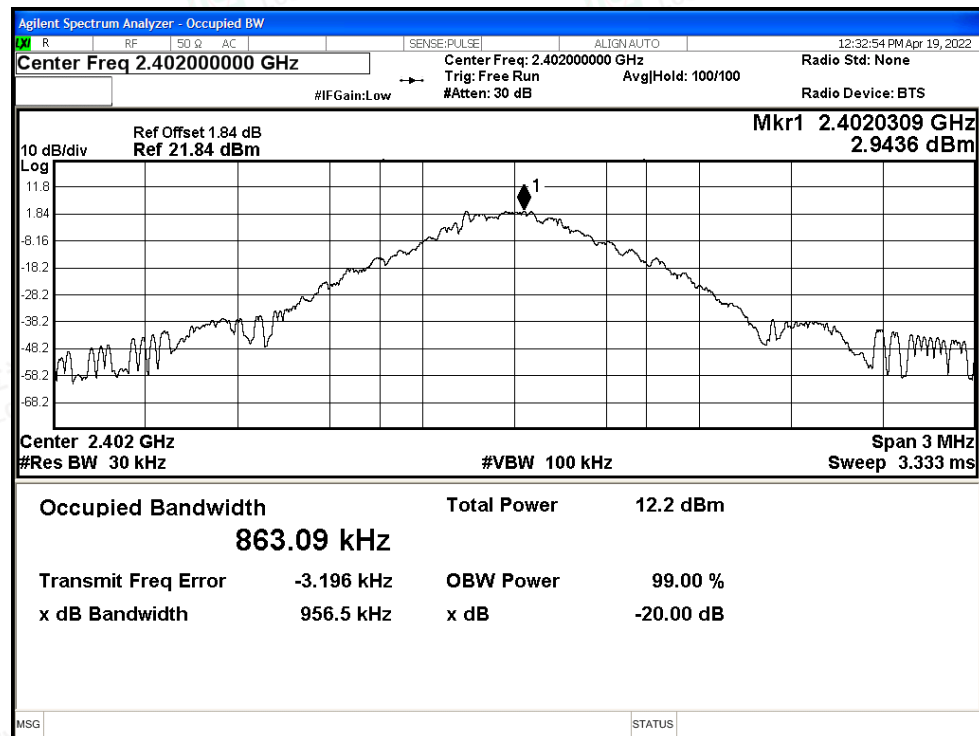


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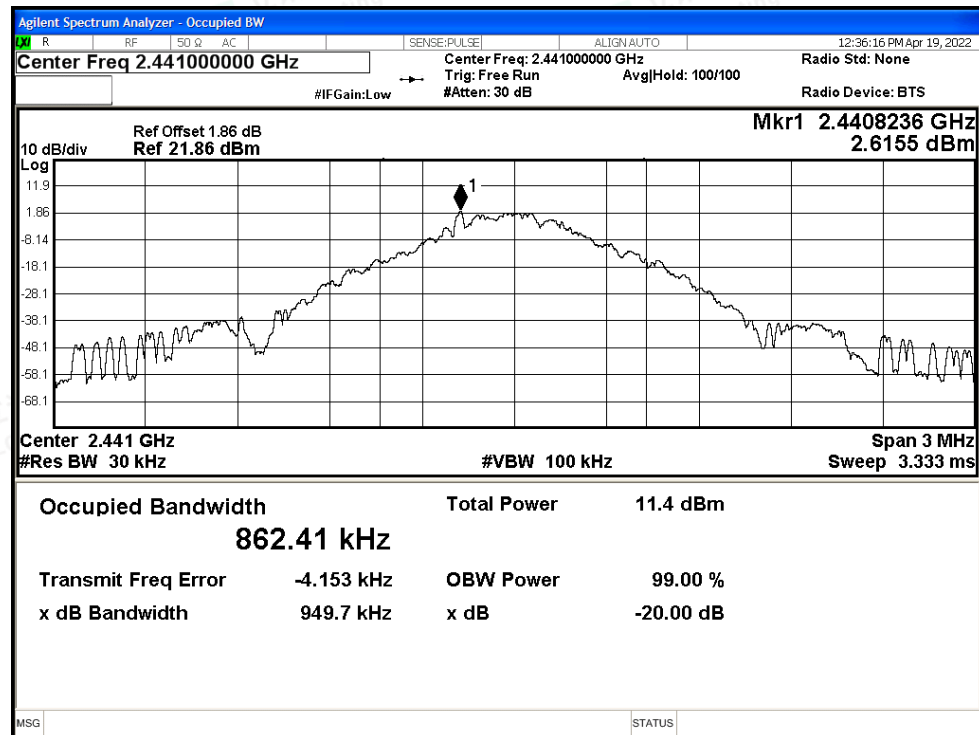


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

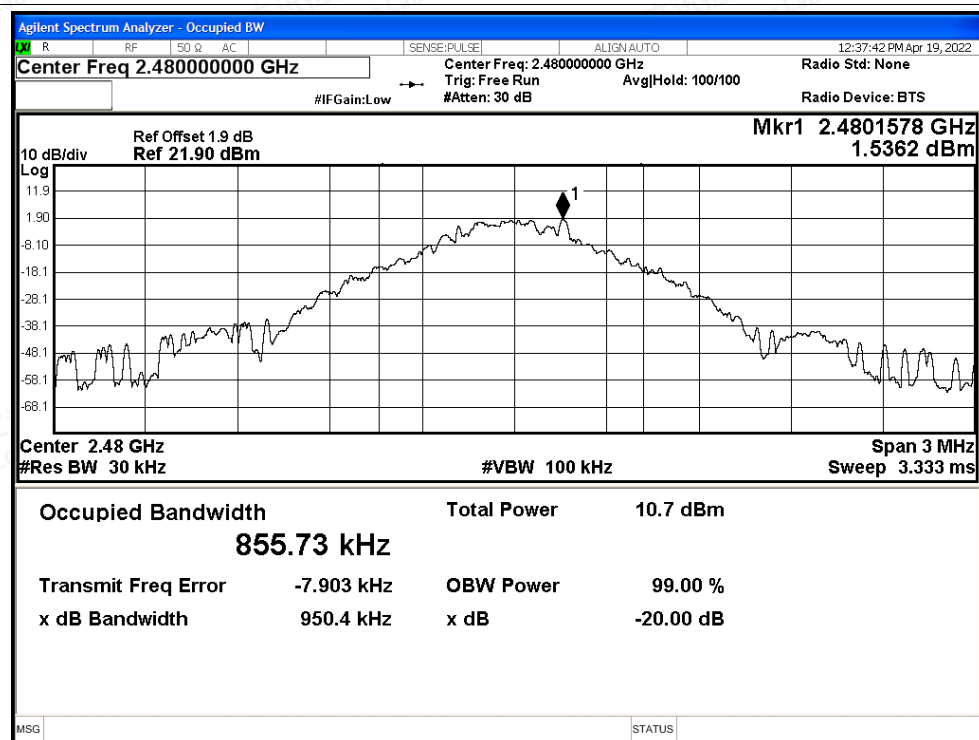


OBW NVNT 1-DH5 2441MHz Ant1

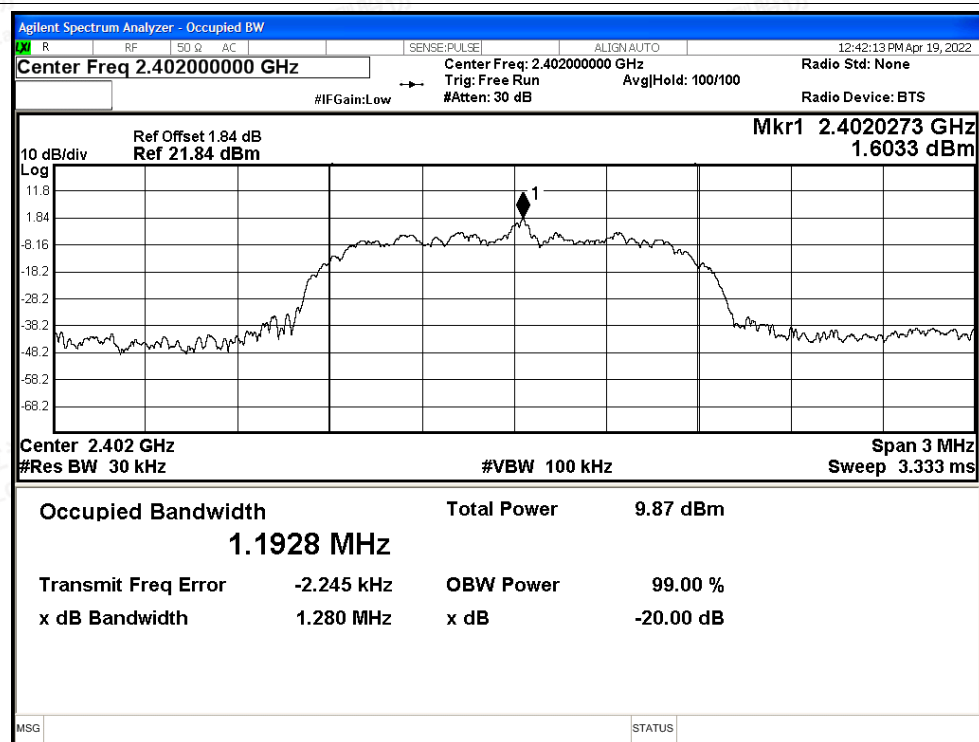


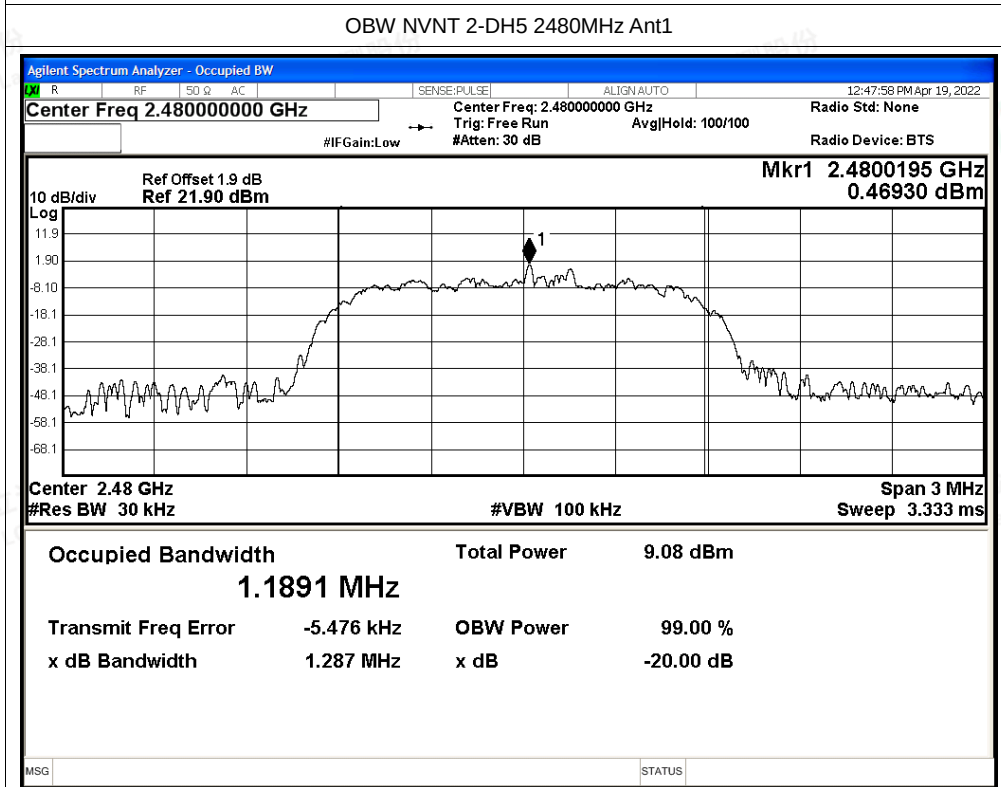
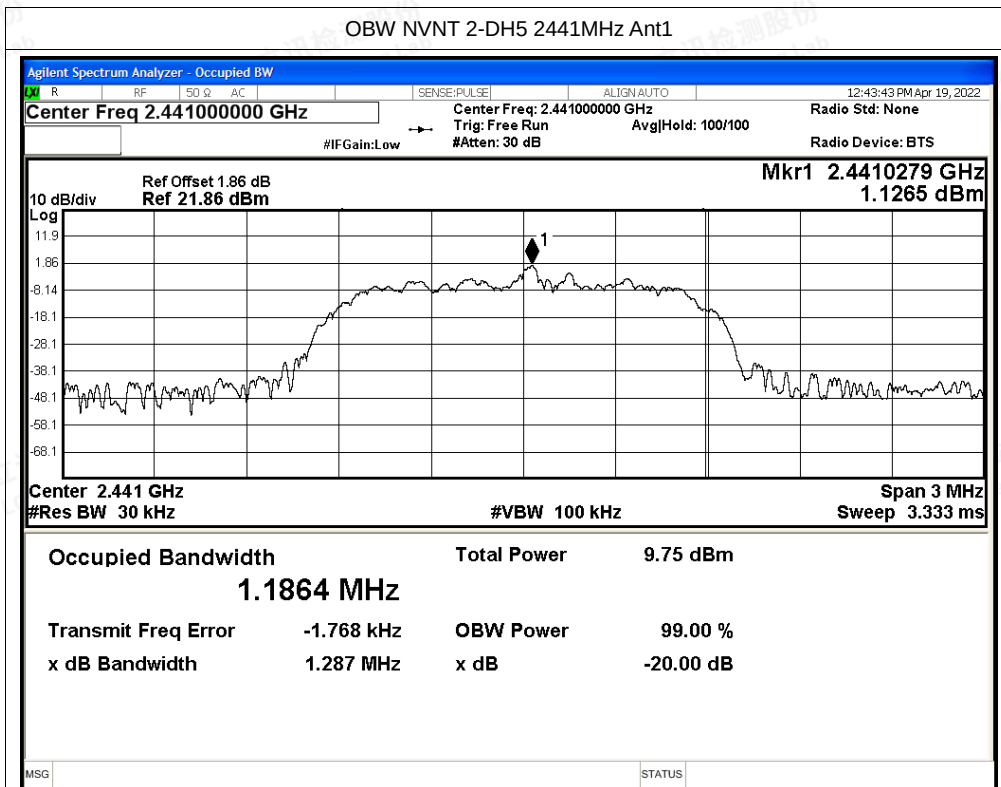


OBW NVNT 1-DH5 2480MHz Ant1



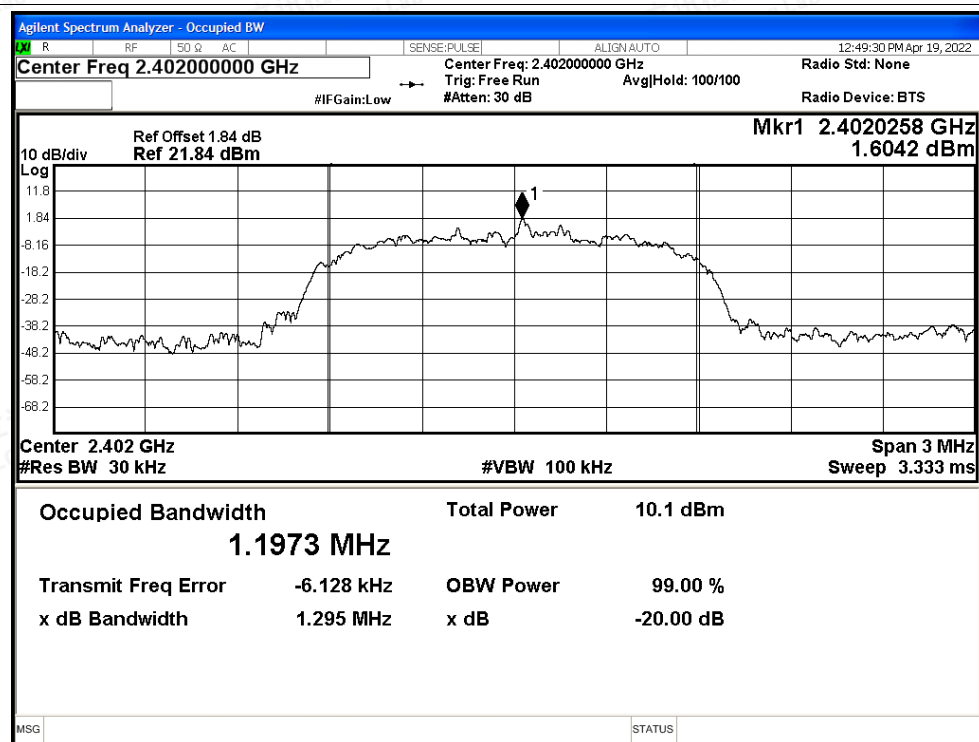
OBW NVNT 2-DH5 2402MHz Ant1



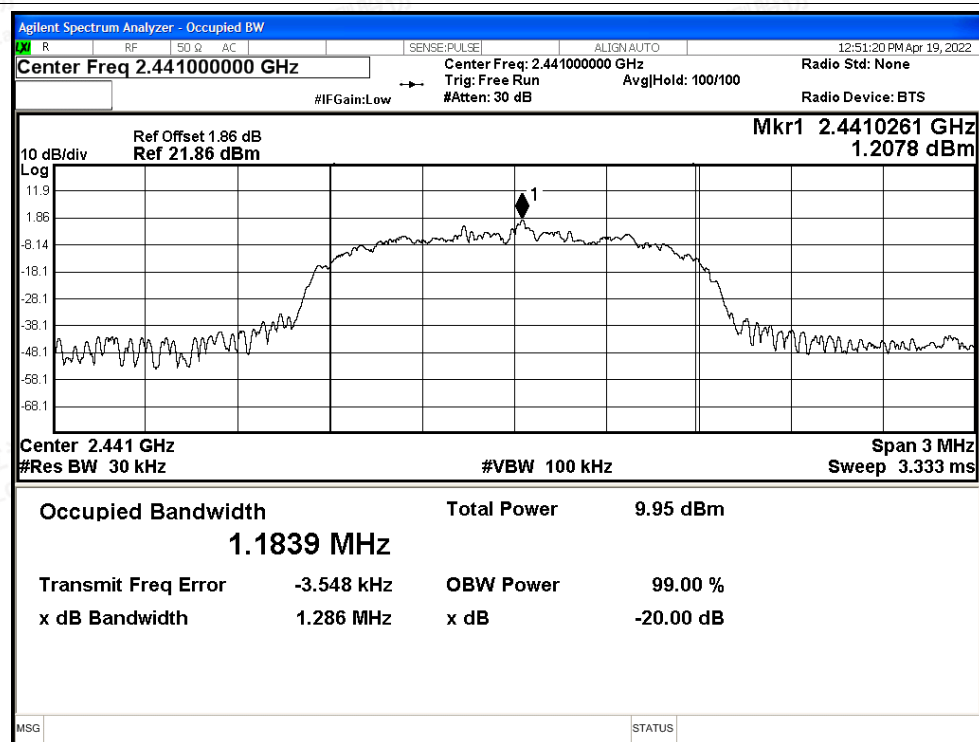


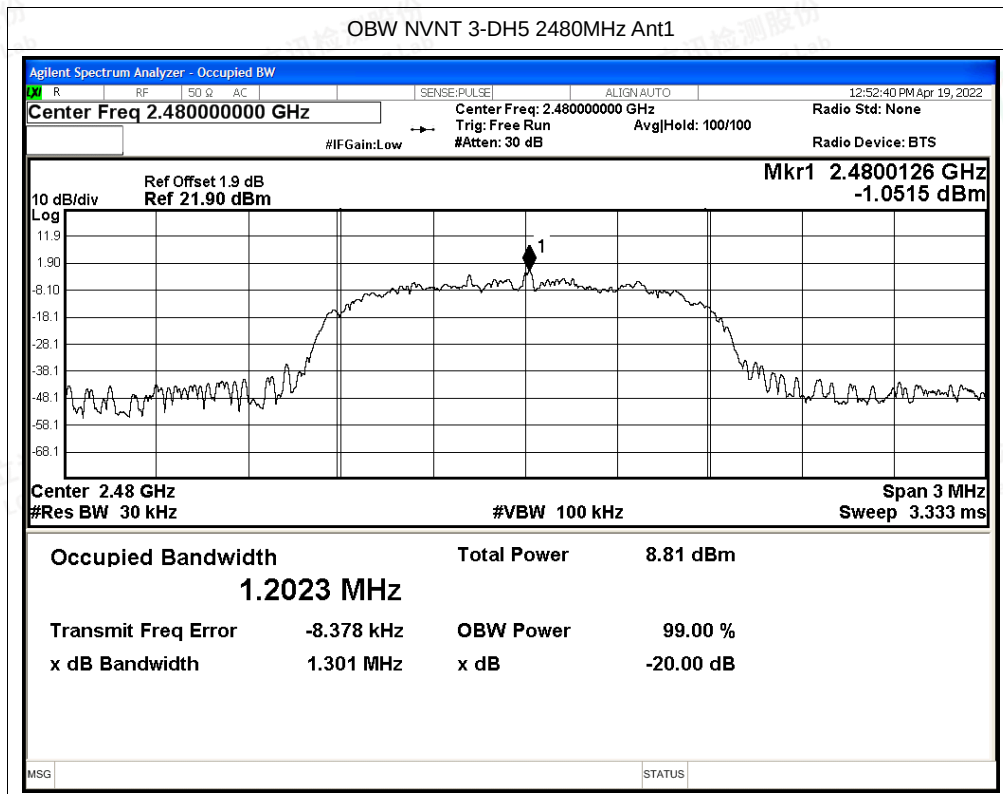


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1







A.3 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.55	21	Pass
NVNT	1-DH5	2441	Ant1	4.66	21	Pass
NVNT	1-DH5	2480	Ant1	4.12	21	Pass
NVNT	2-DH5	2402	Ant1	5.55	21	Pass
NVNT	2-DH5	2441	Ant1	5.31	21	Pass
NVNT	2-DH5	2480	Ant1	4.81	21	Pass
NVNT	3-DH5	2402	Ant1	5.87	21	Pass
NVNT	3-DH5	2441	Ant1	5.6	21	Pass
NVNT	3-DH5	2480	Ant1	5.08	21	Pass

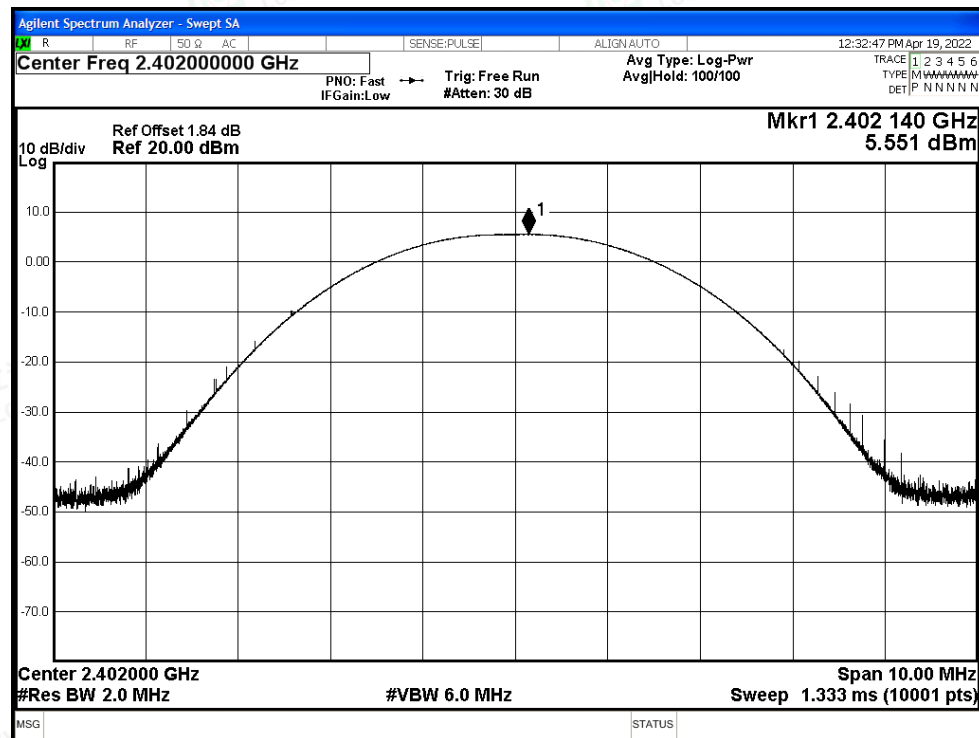


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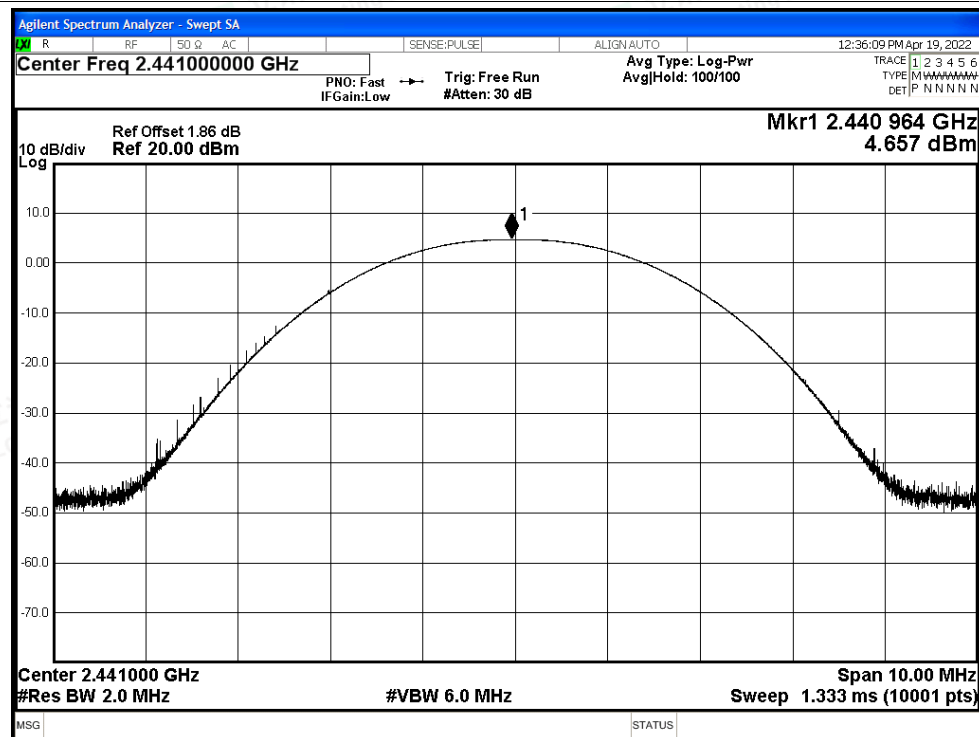


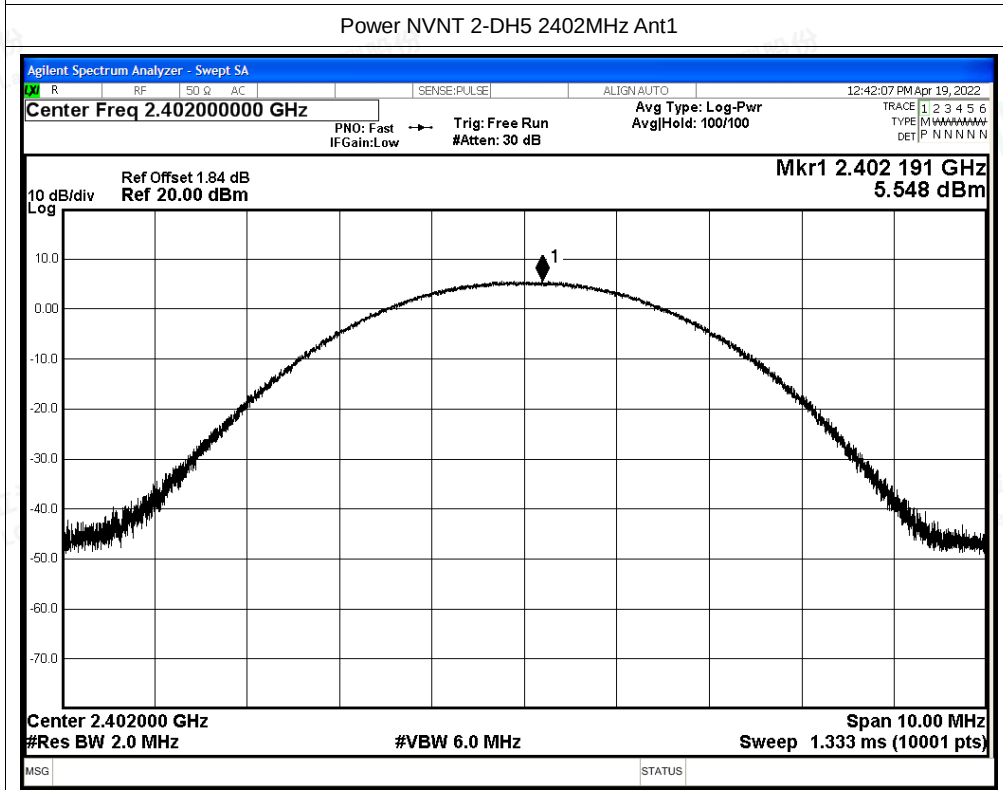
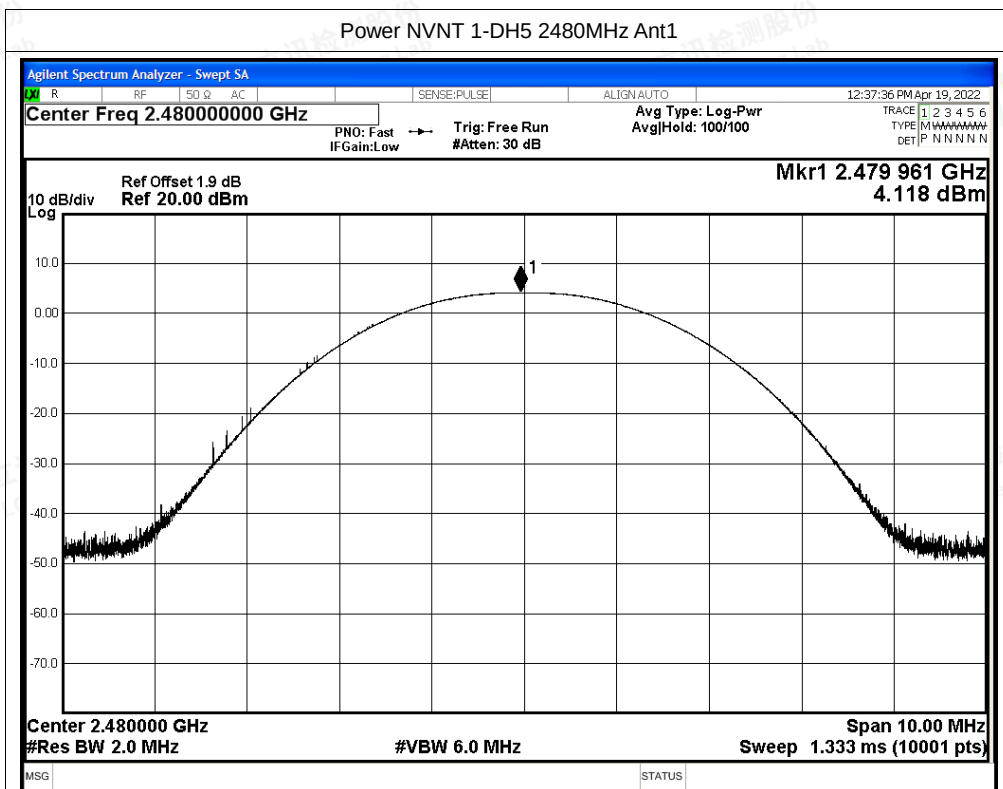
Test Graphs

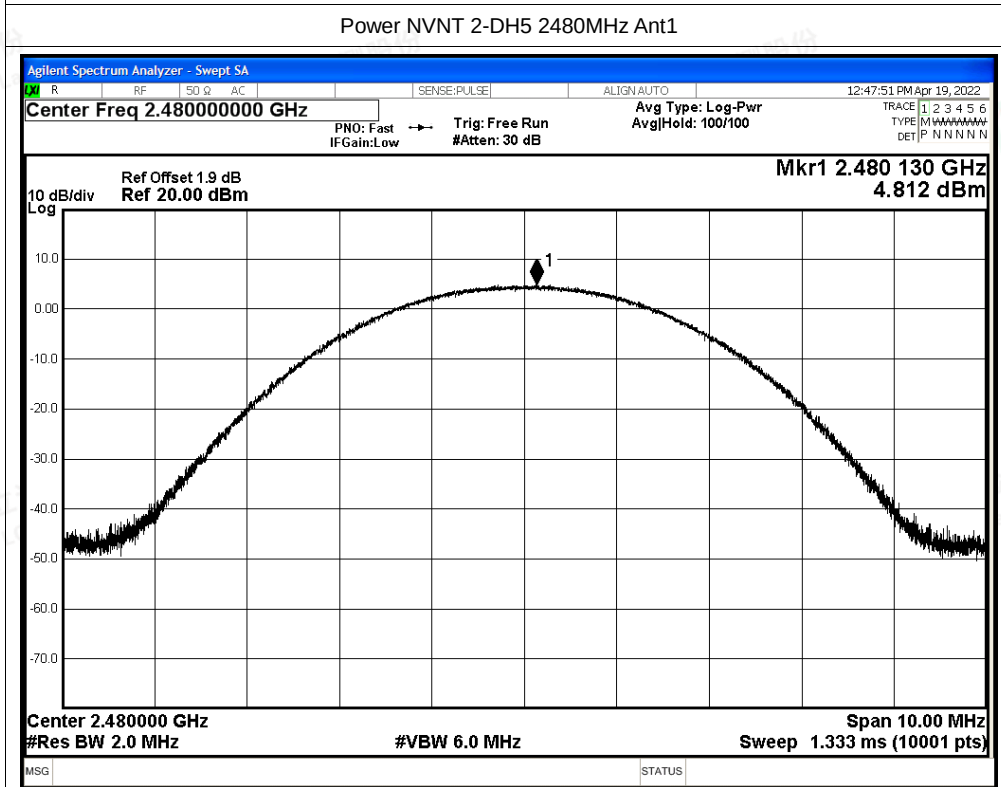
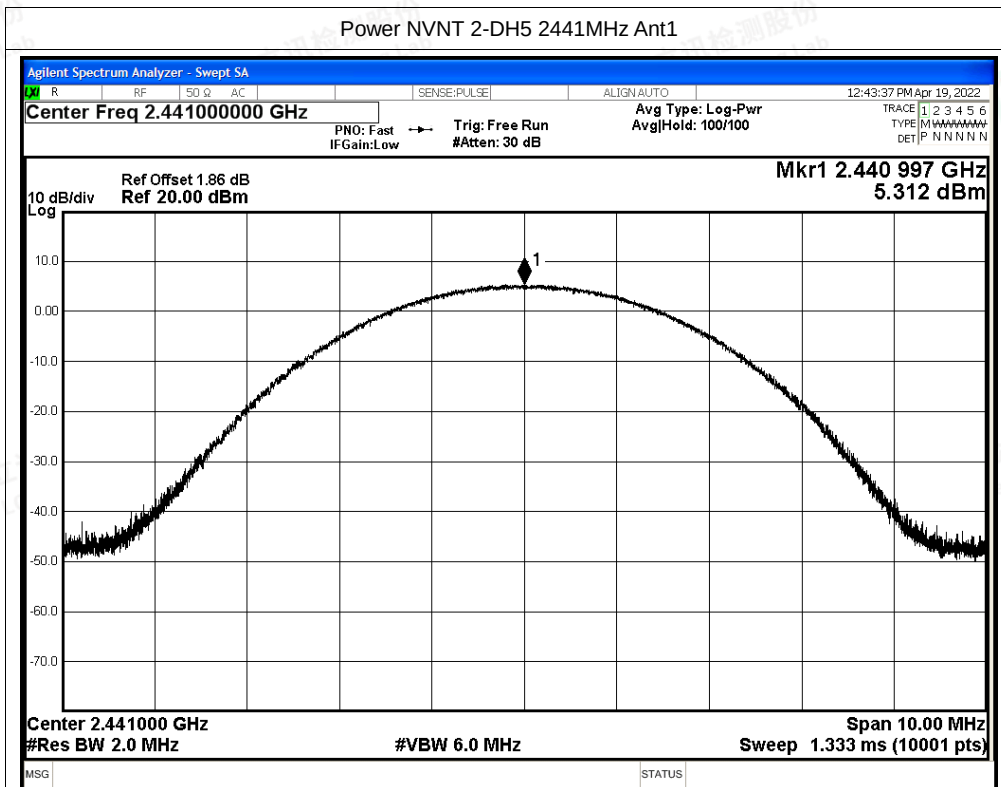
Power NVNT 1-DH5 2402MHz Ant1

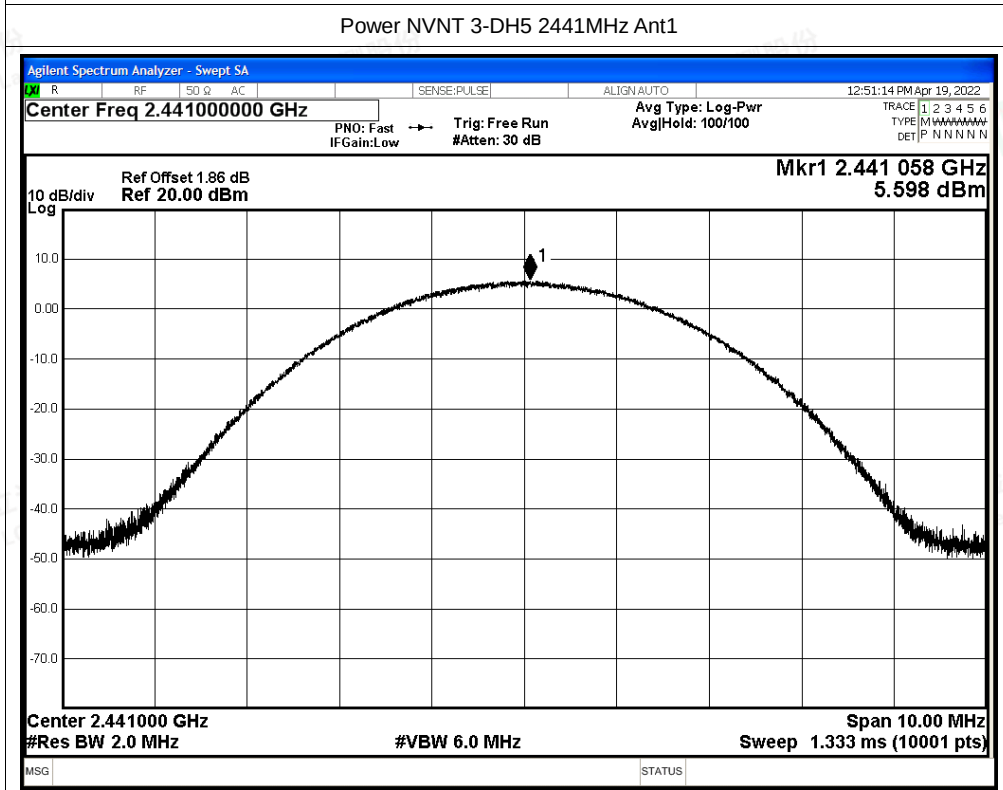
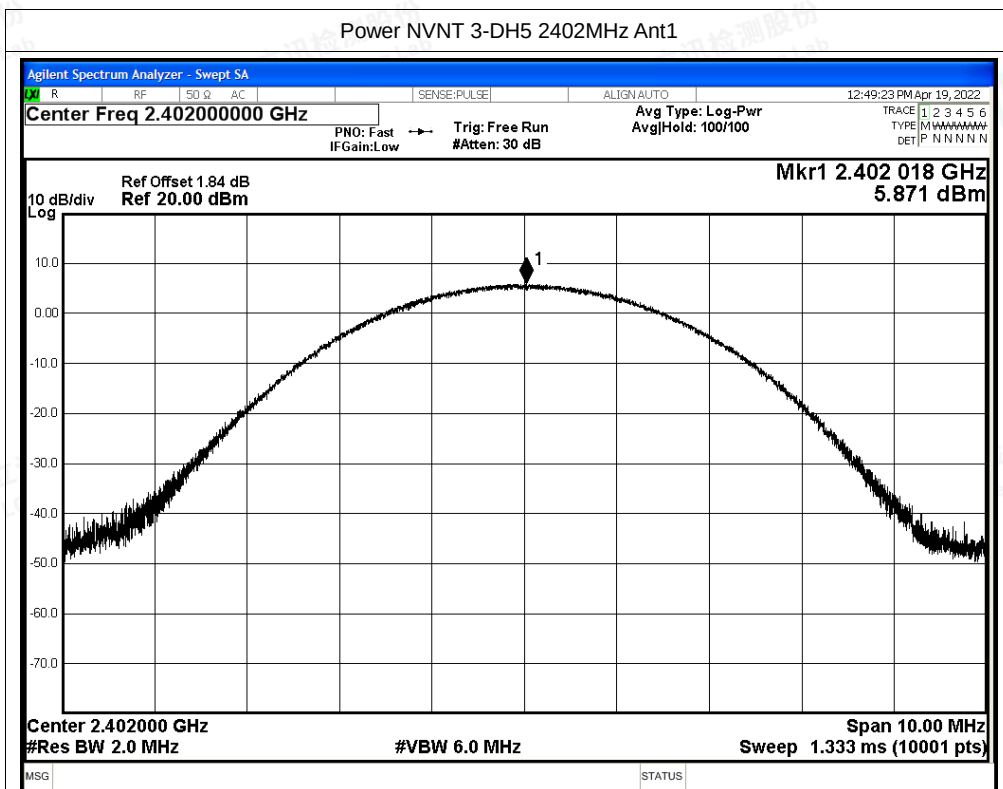


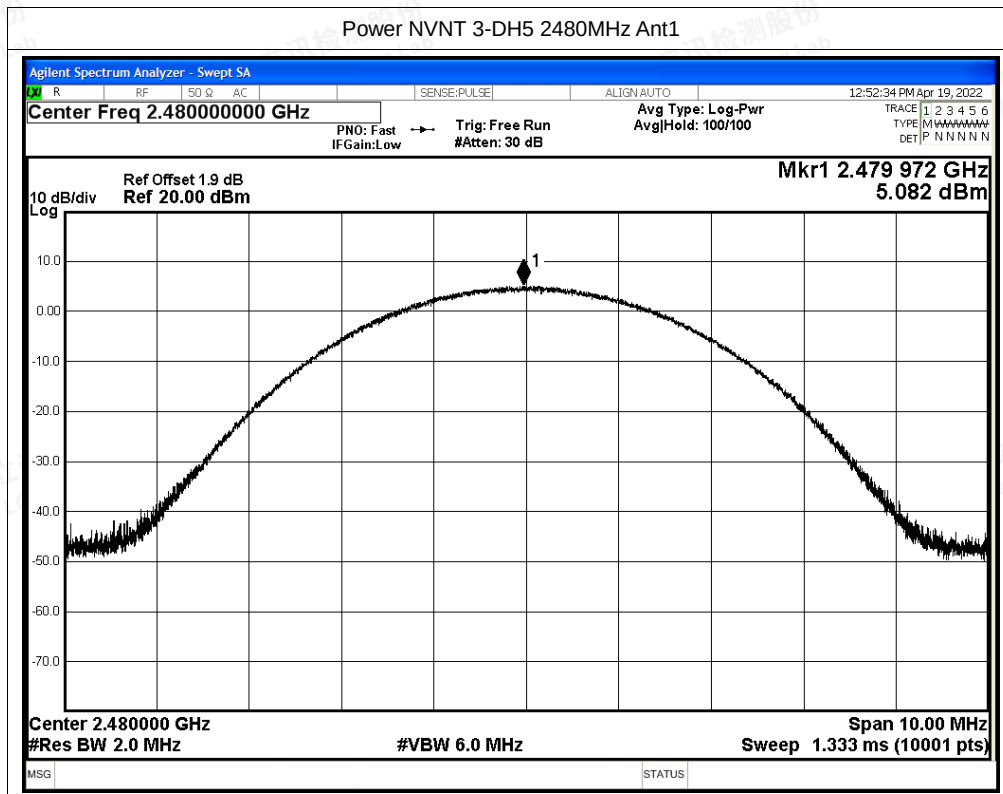
Power NVNT 1-DH5 2441MHz Ant1













A.4 Carrier Frequencies Separation

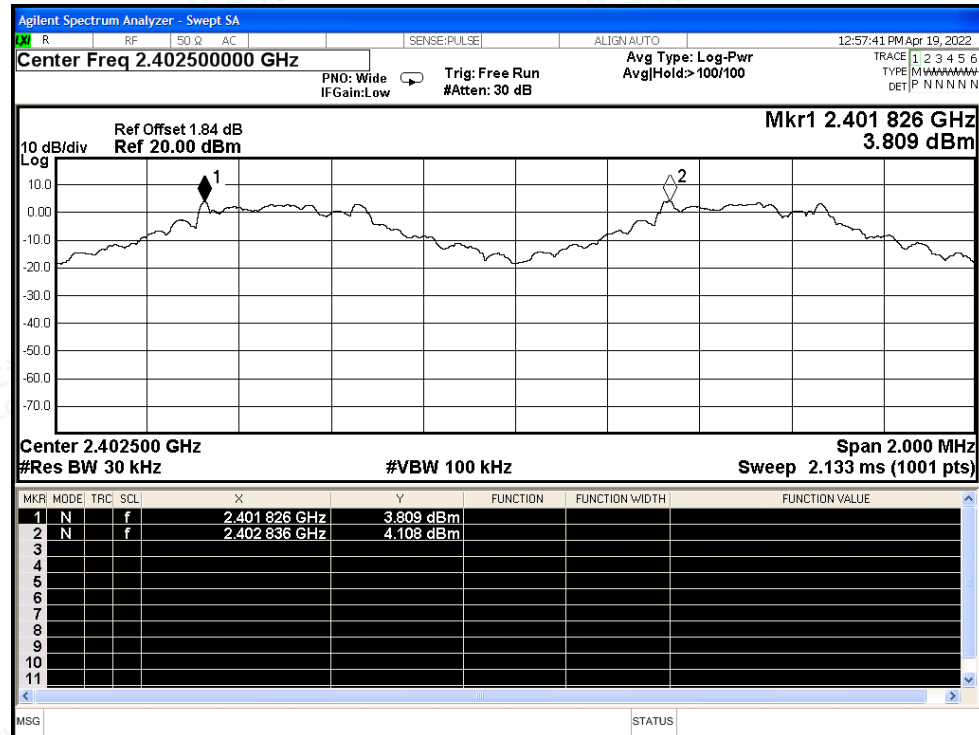
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.826	2402.836	1.01	0.633	Pass
NVNT	2-DH5	Ant1	2402.022	2403.028	1.006	0.869	Pass
NVNT	3-DH5	Ant1	2402.102	2403.162	1.06	0.861	Fail



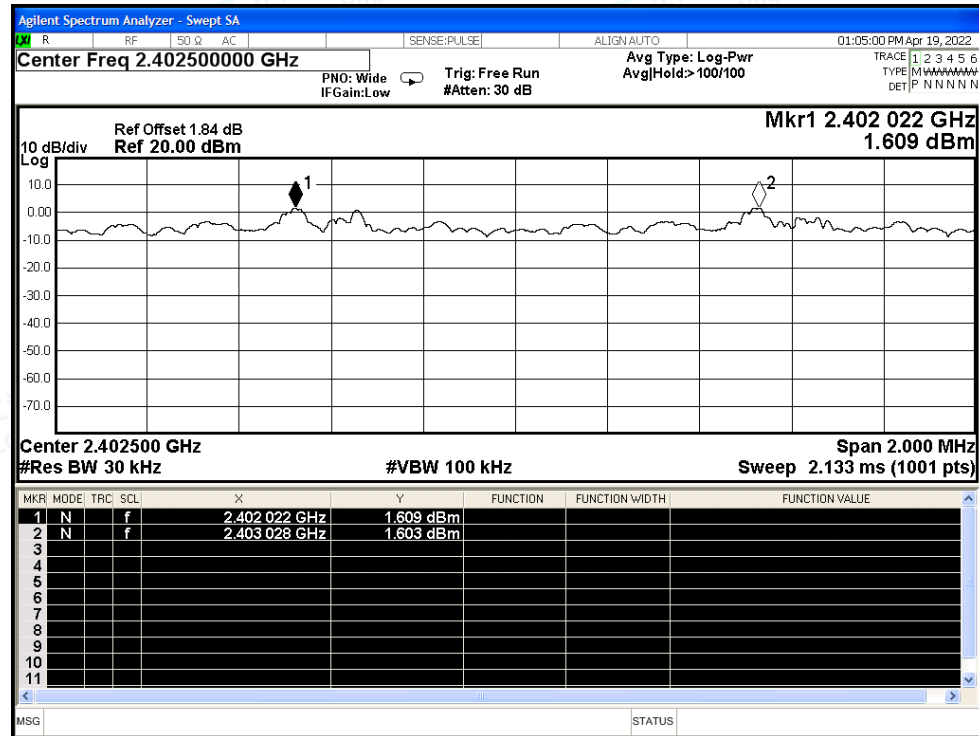


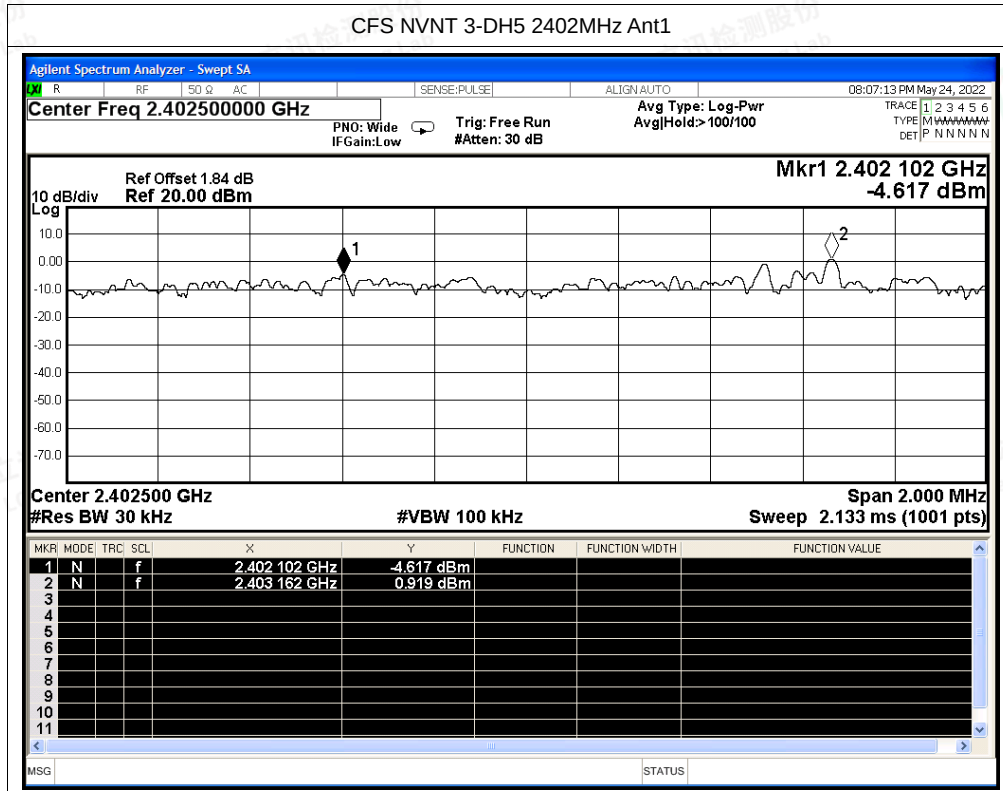
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.5 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	2.841	289.782	102	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	295.392	102	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.896	298.288	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.884	288.4	100	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	288.4	100	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.884	282.632	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	1.971	218.781	111	31600	400	Pass
NVNT	3-DH5	2441	Ant1	1.971	214.839	109	31600	400	Pass
NVNT	3-DH5	2480	Ant1	1.971	210.897	107	31600	400	Pass

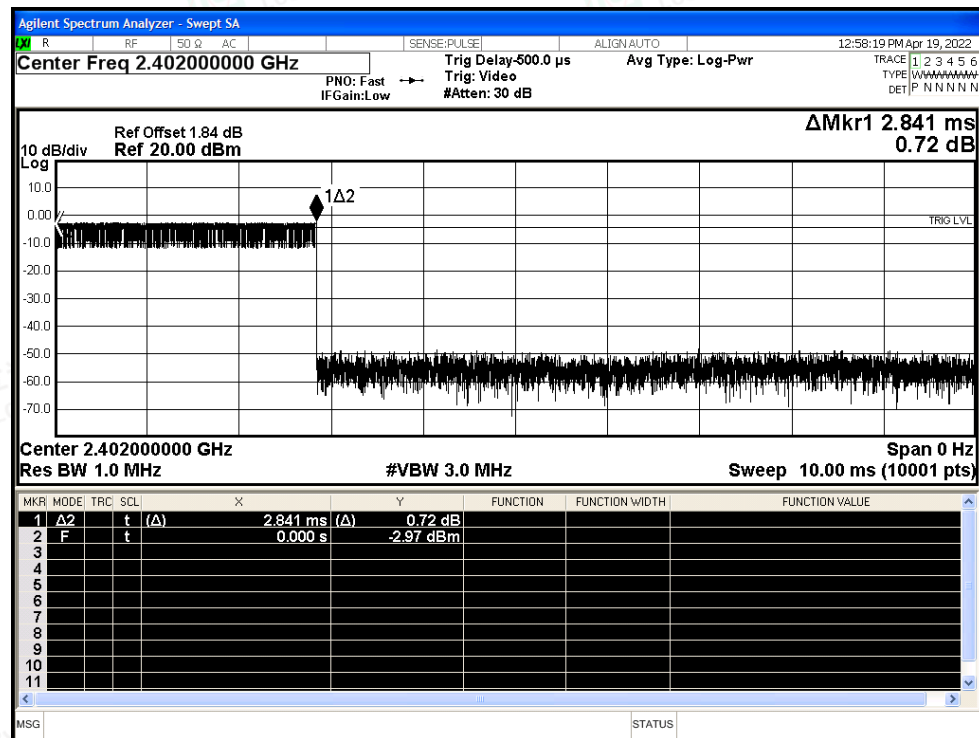


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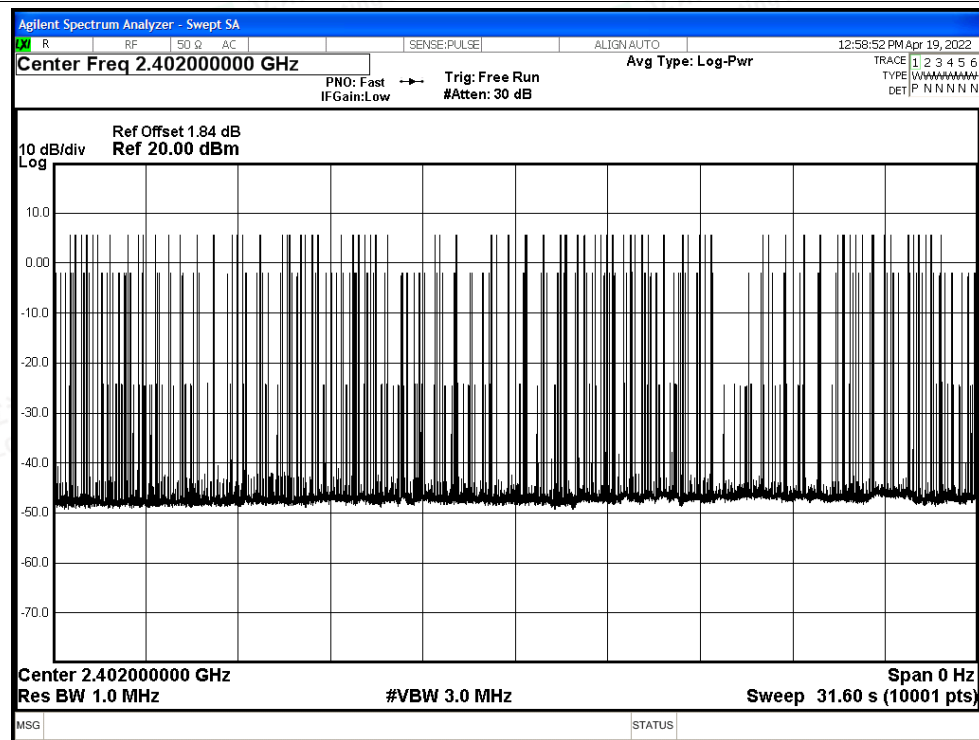


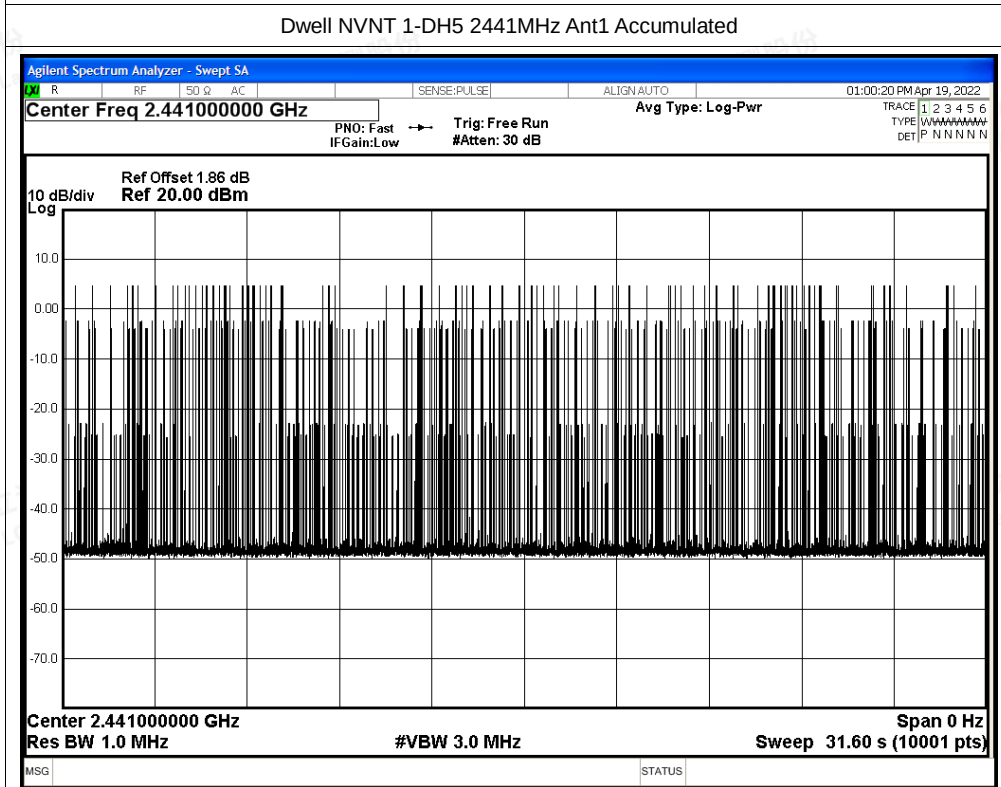
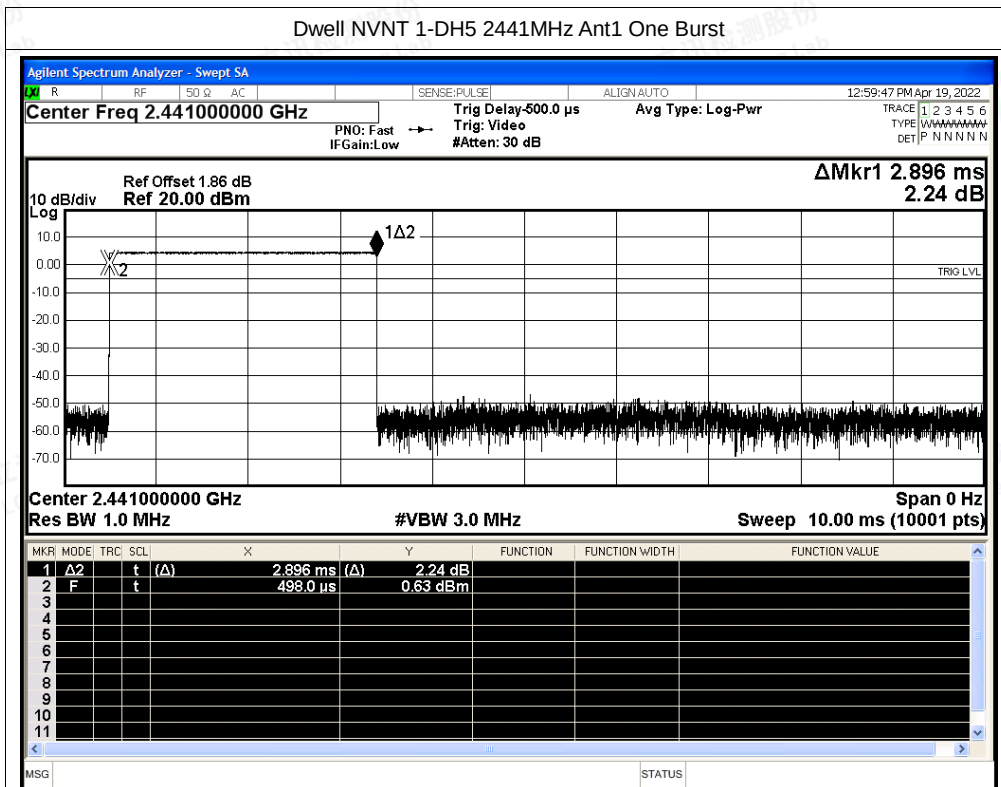
Test Graphs

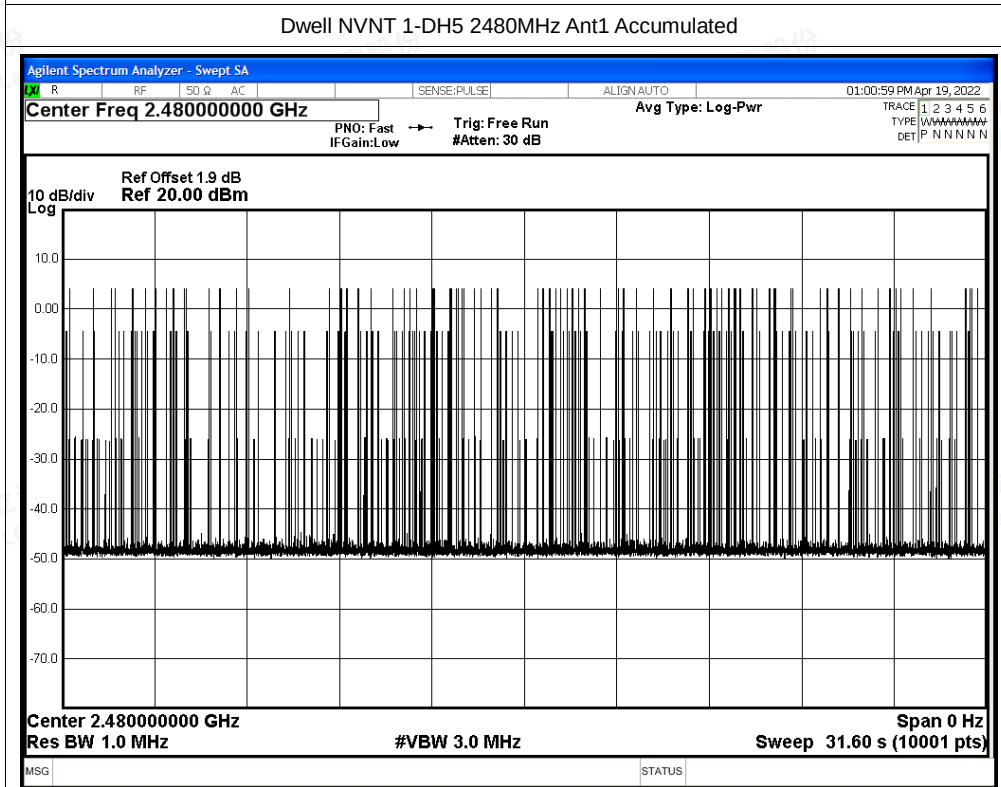
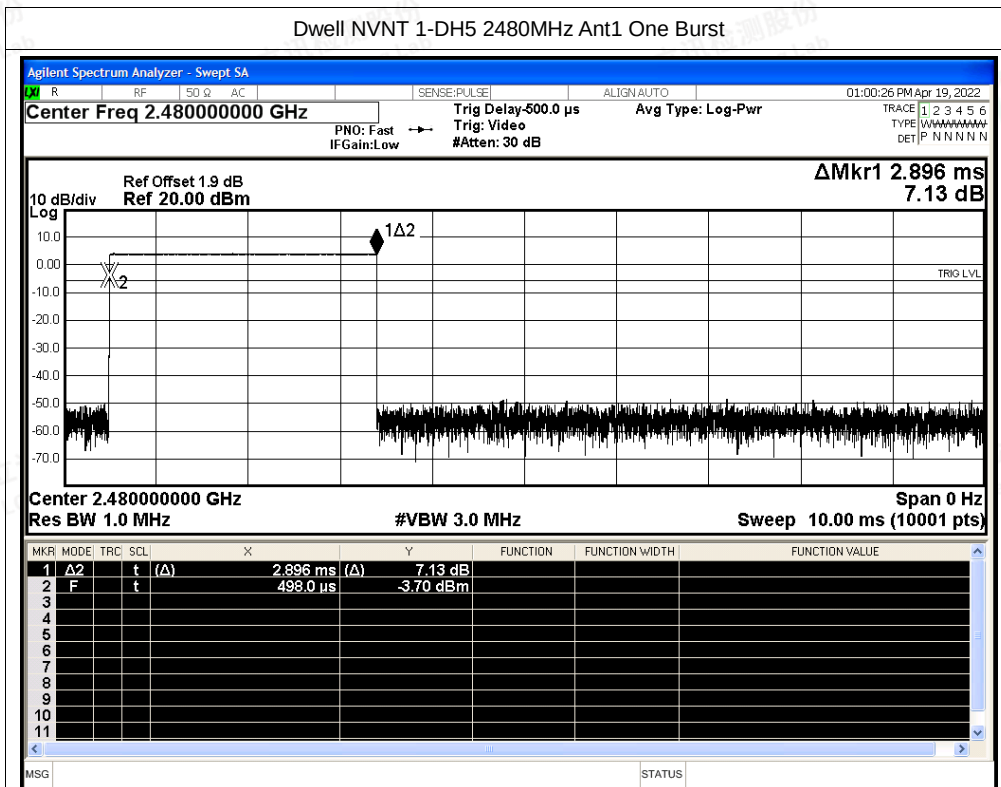
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

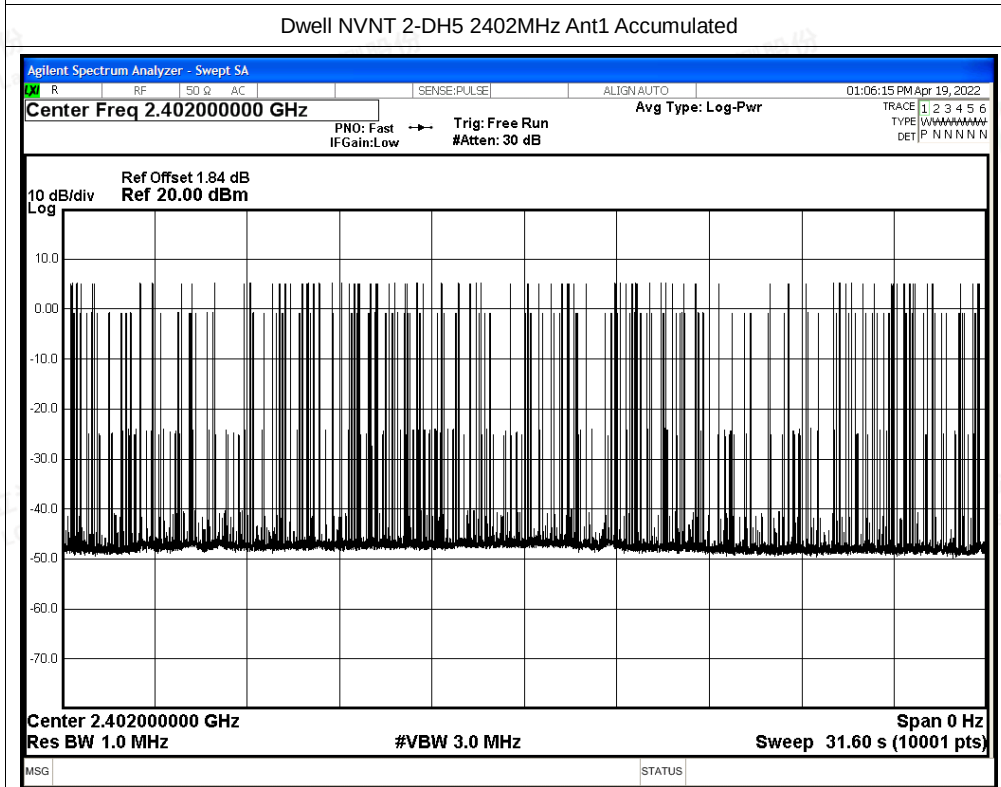
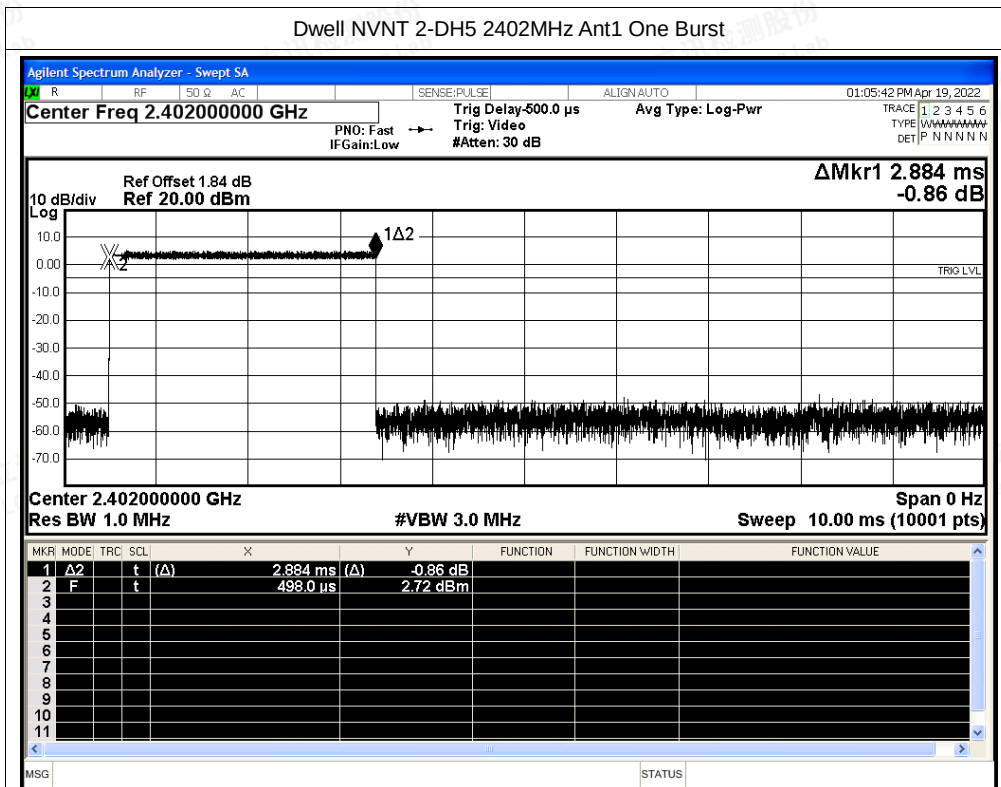


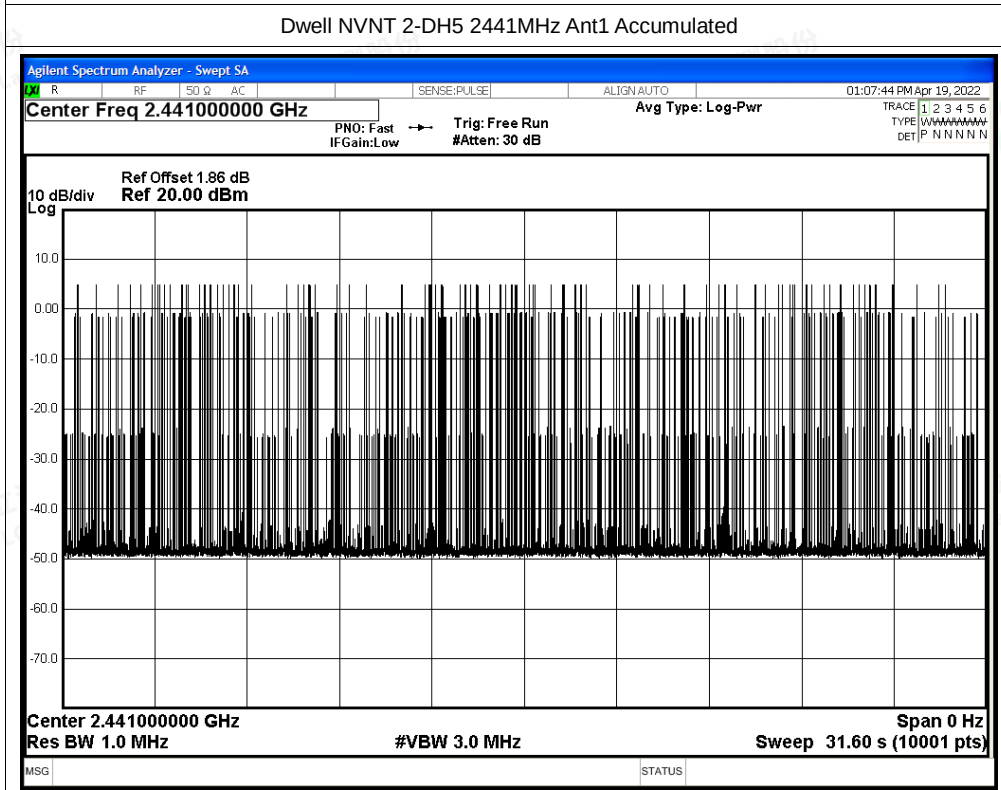
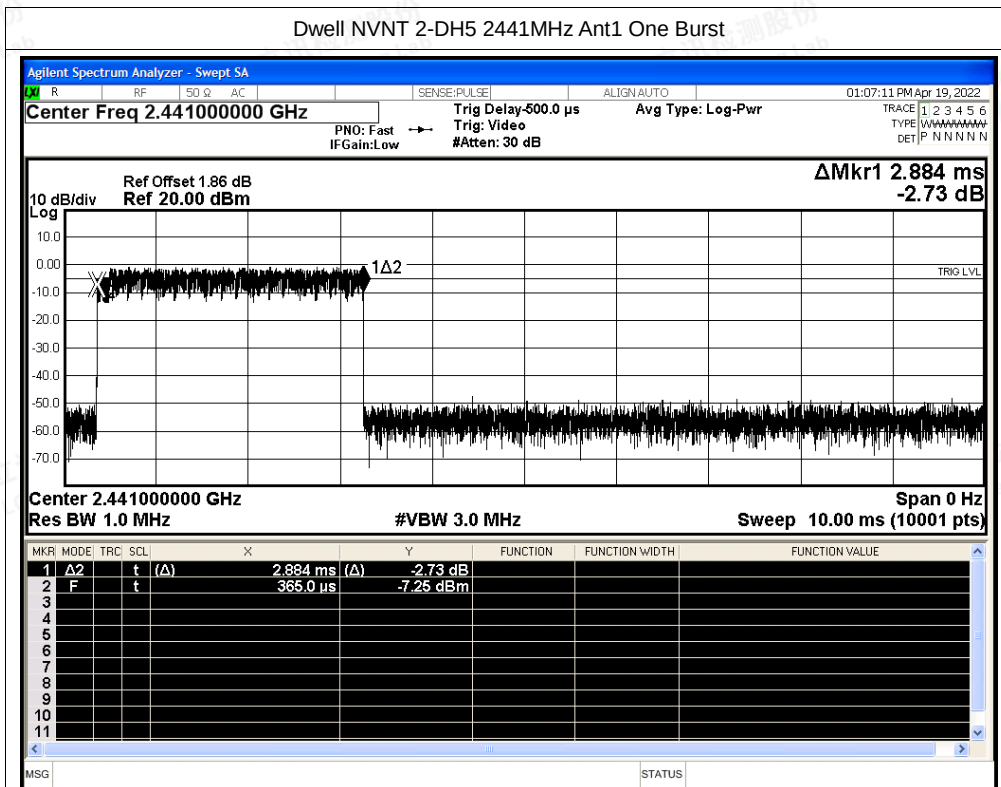
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

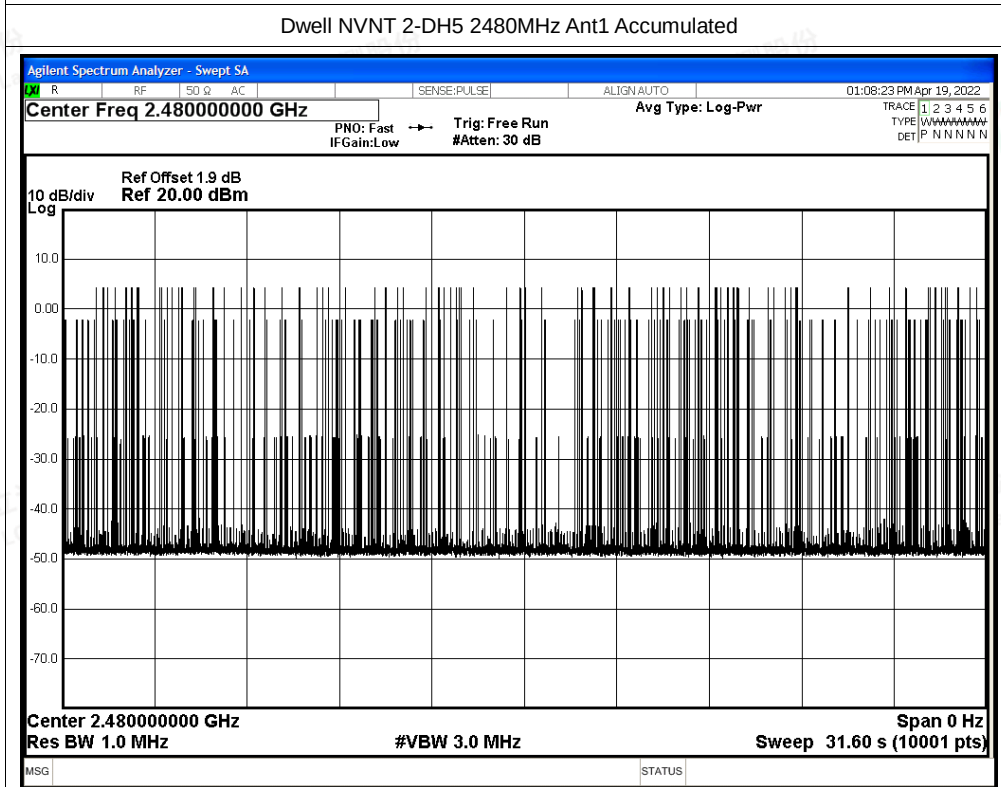
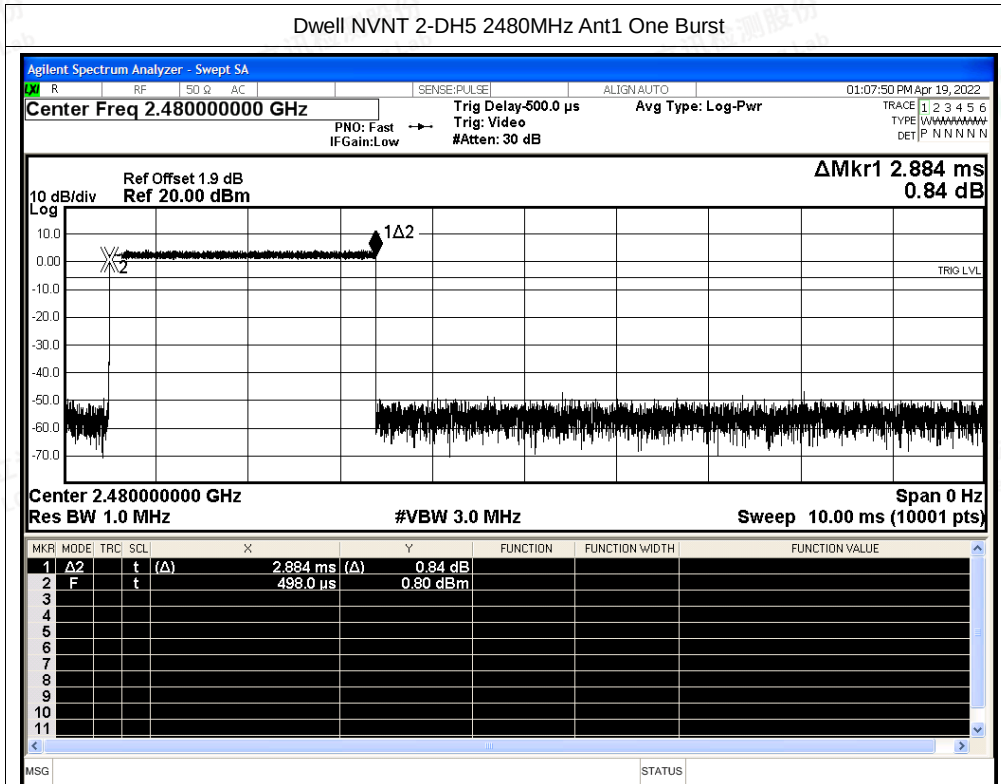


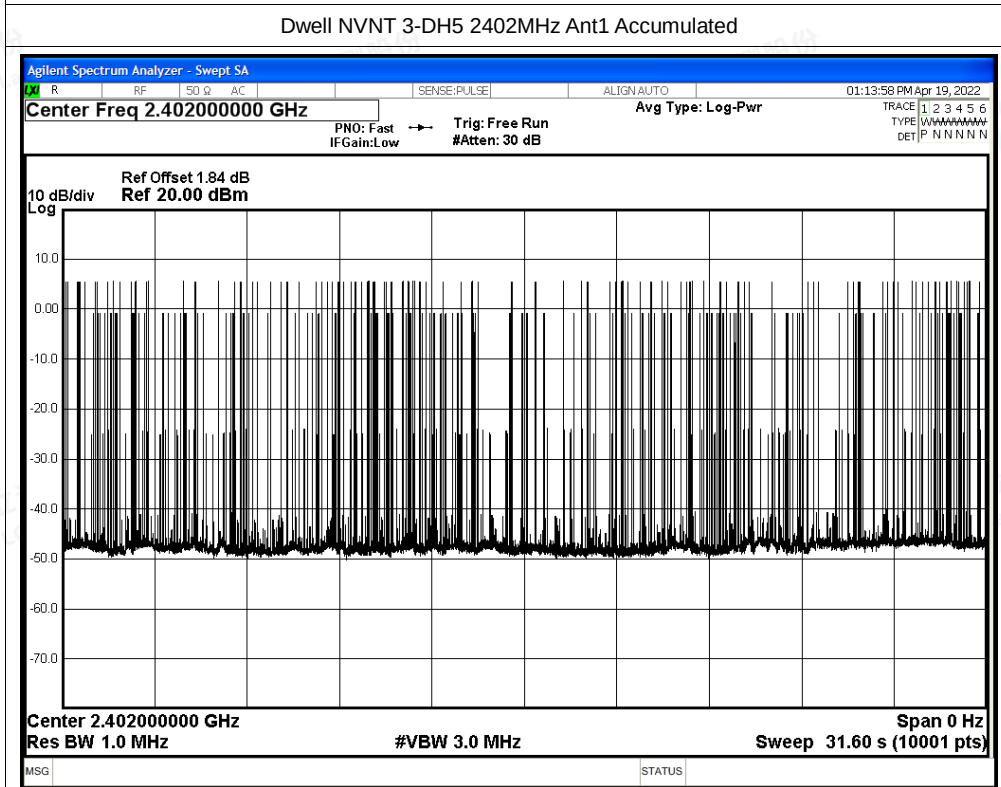
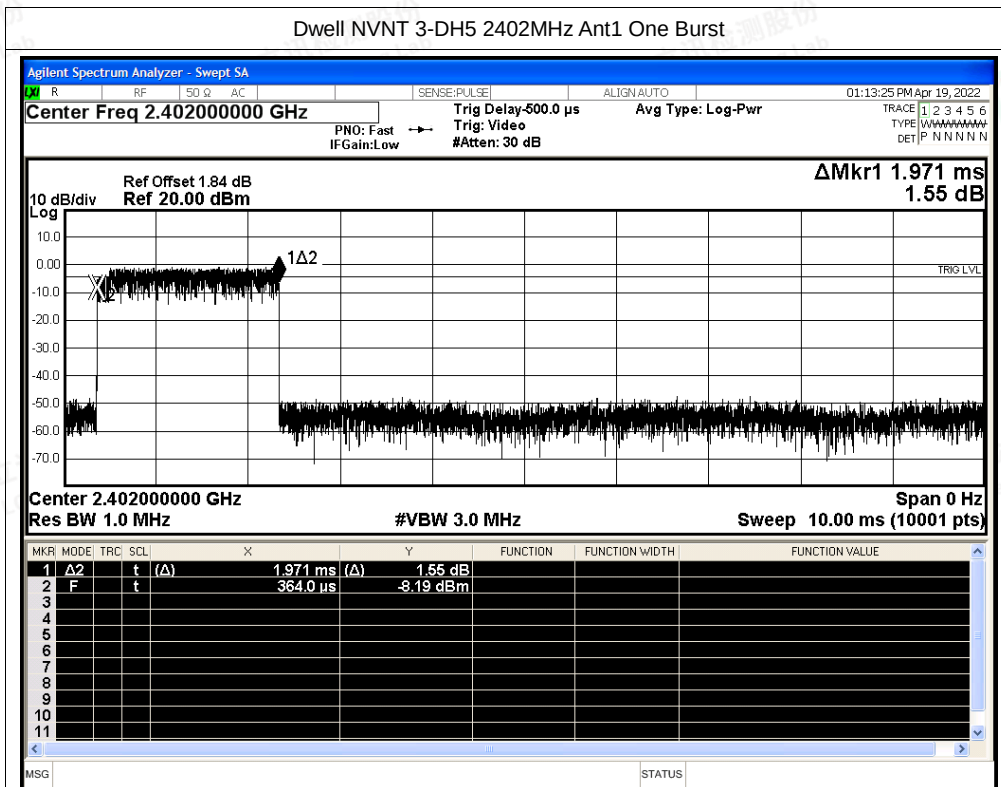


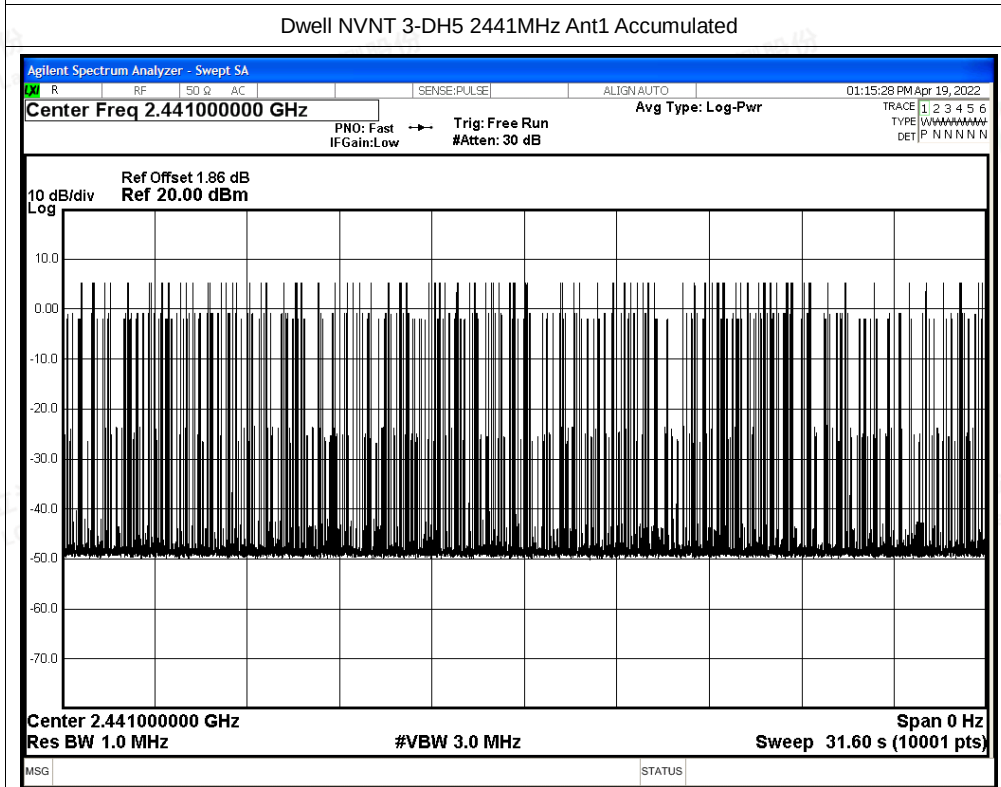
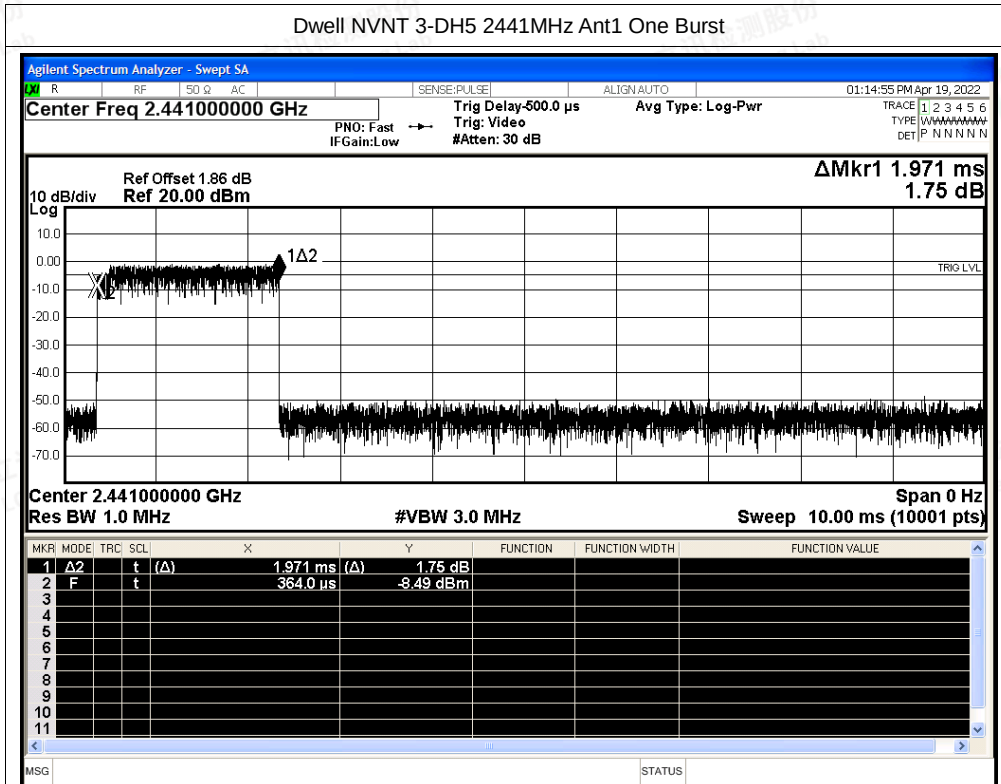


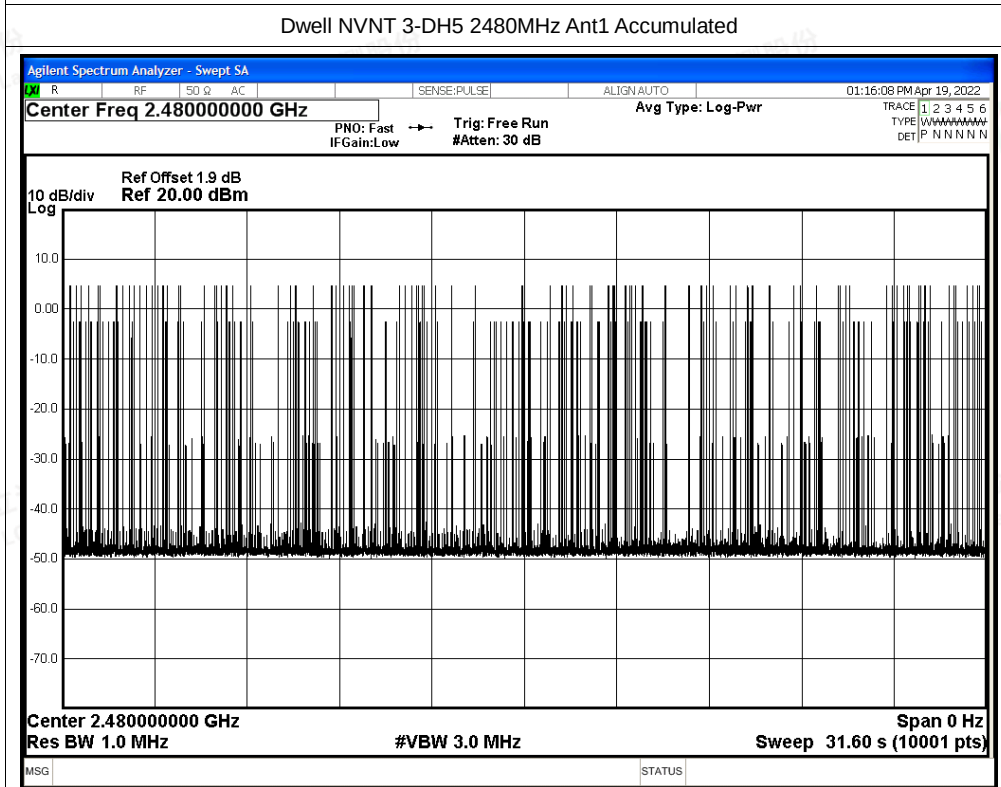
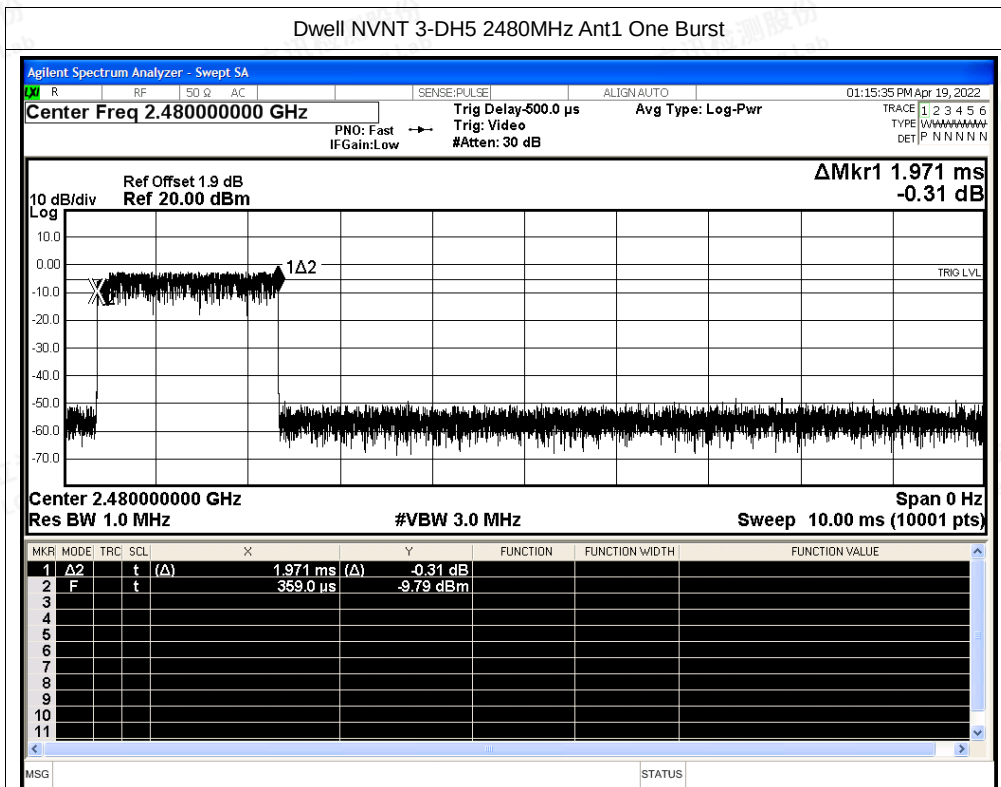














A.6 Number of Hopping Channel

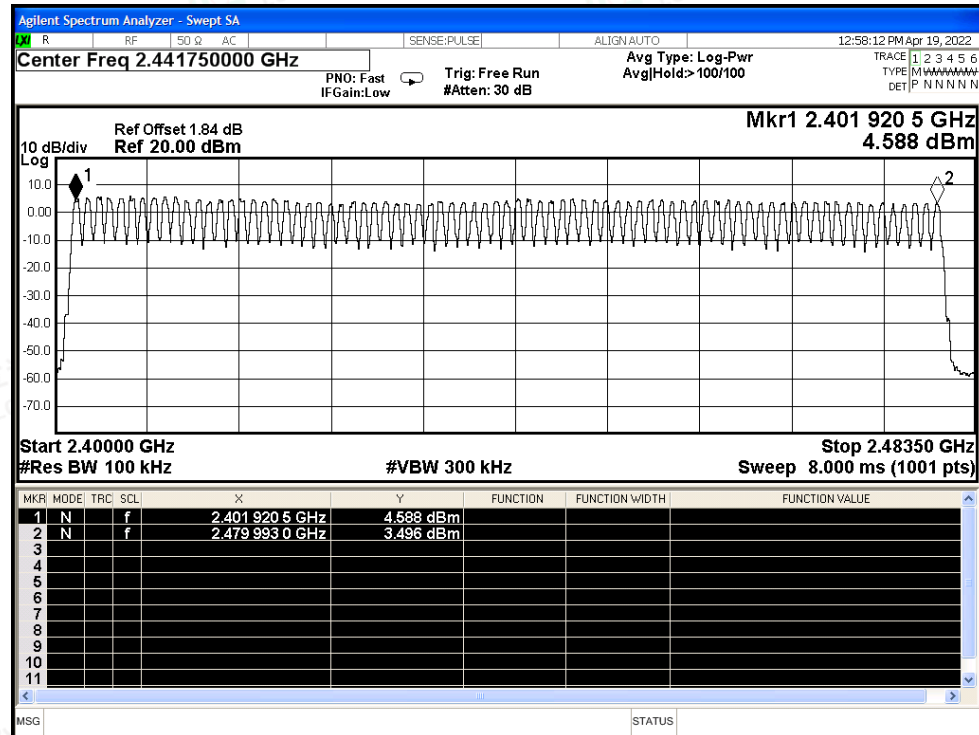
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



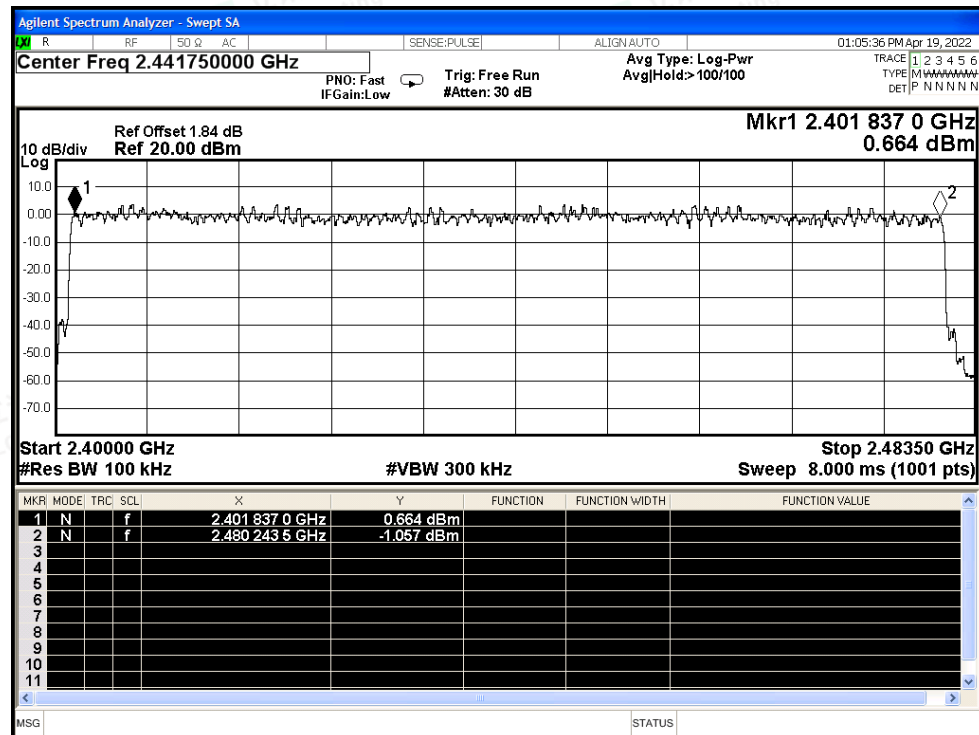


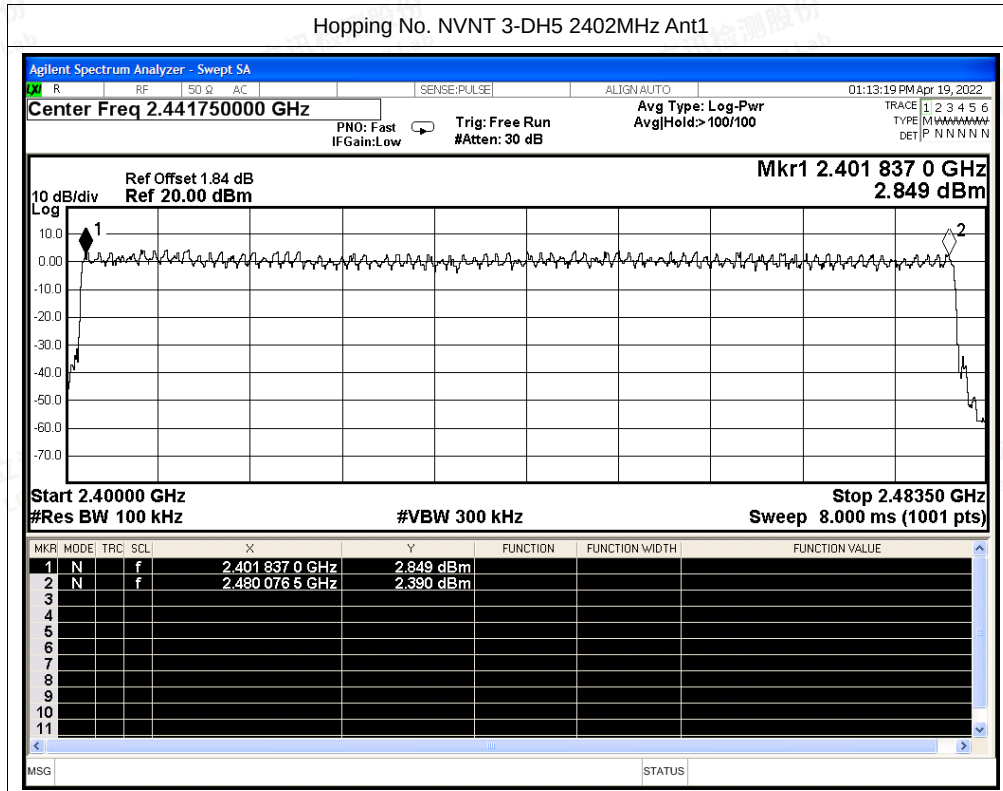
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.7 Band Edge

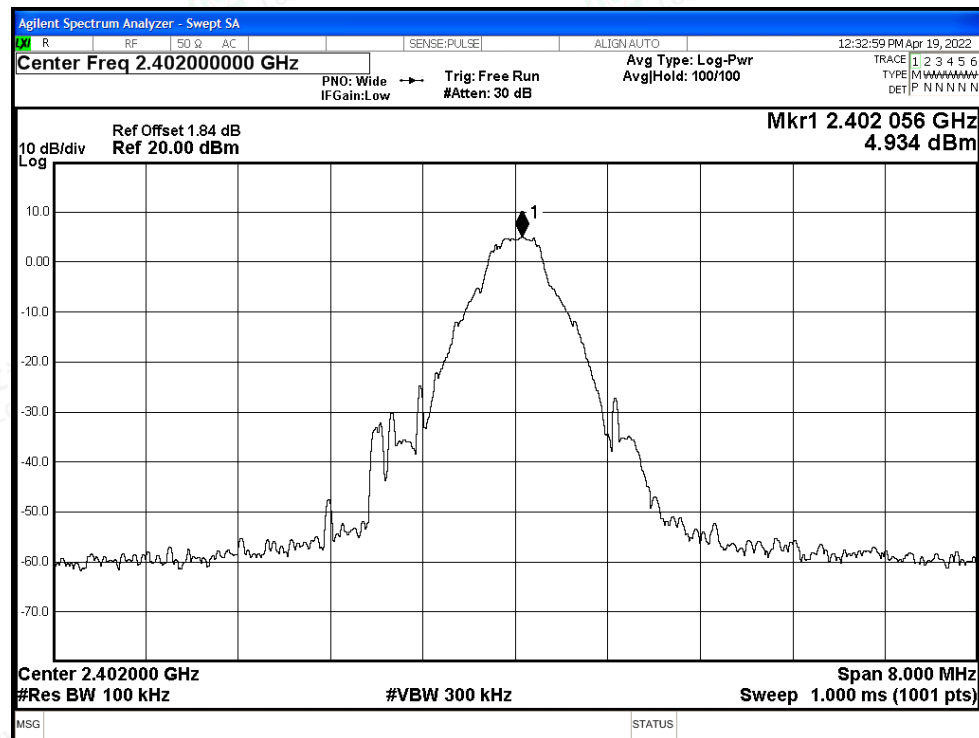
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-59.52	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.73	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.82	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.8	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.19	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.53	-20	Pass



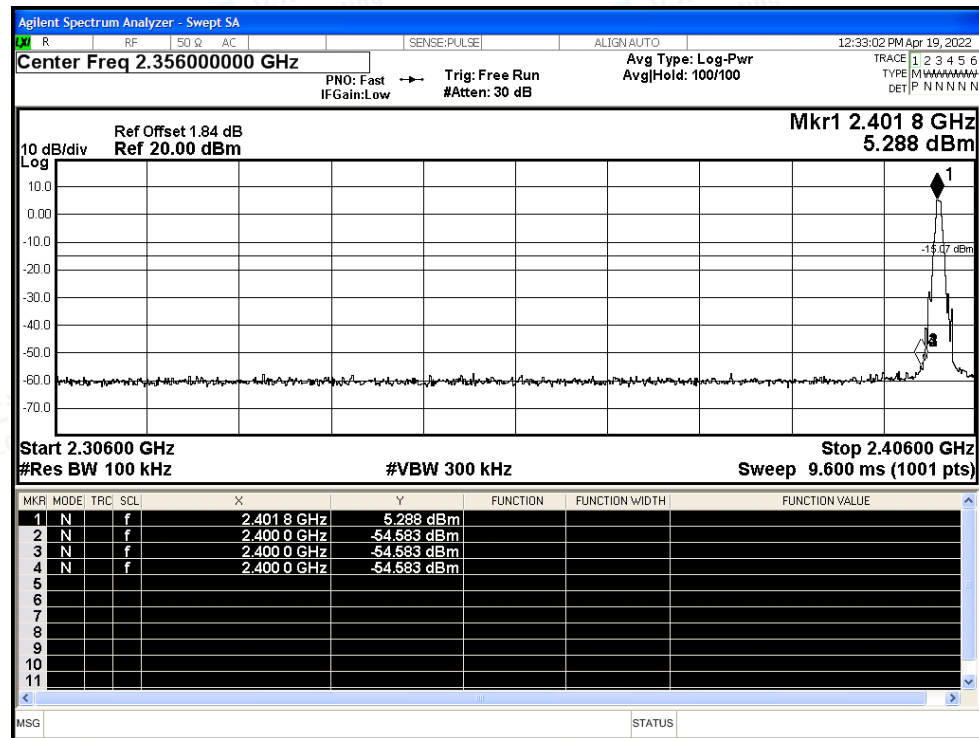


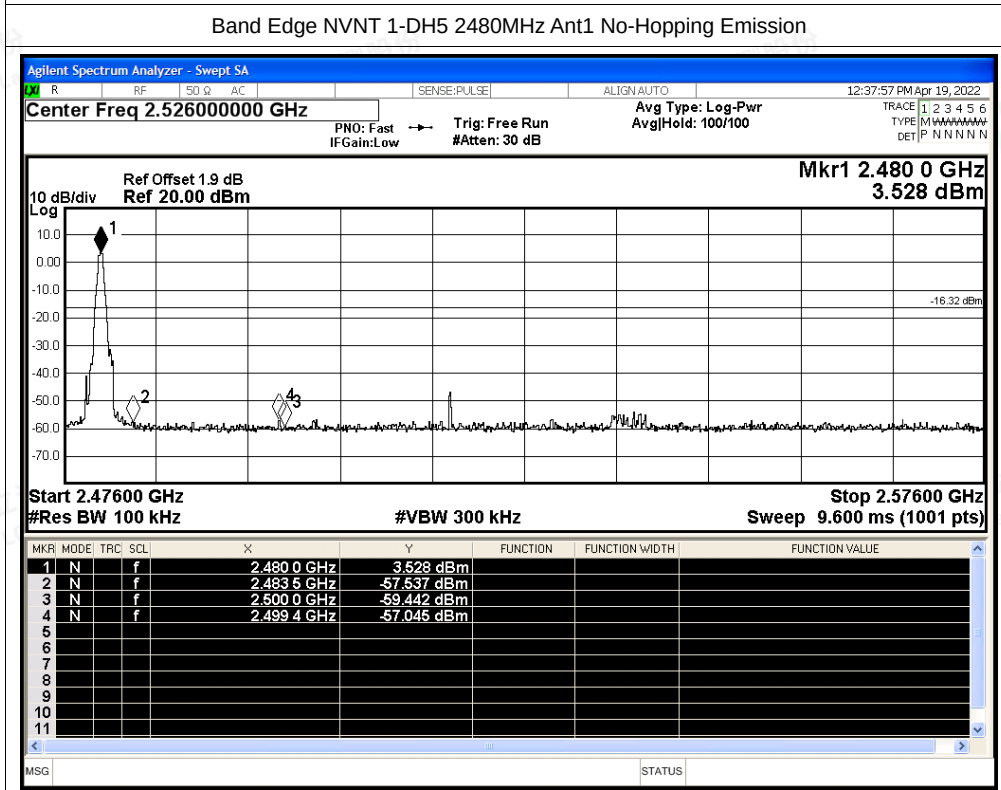
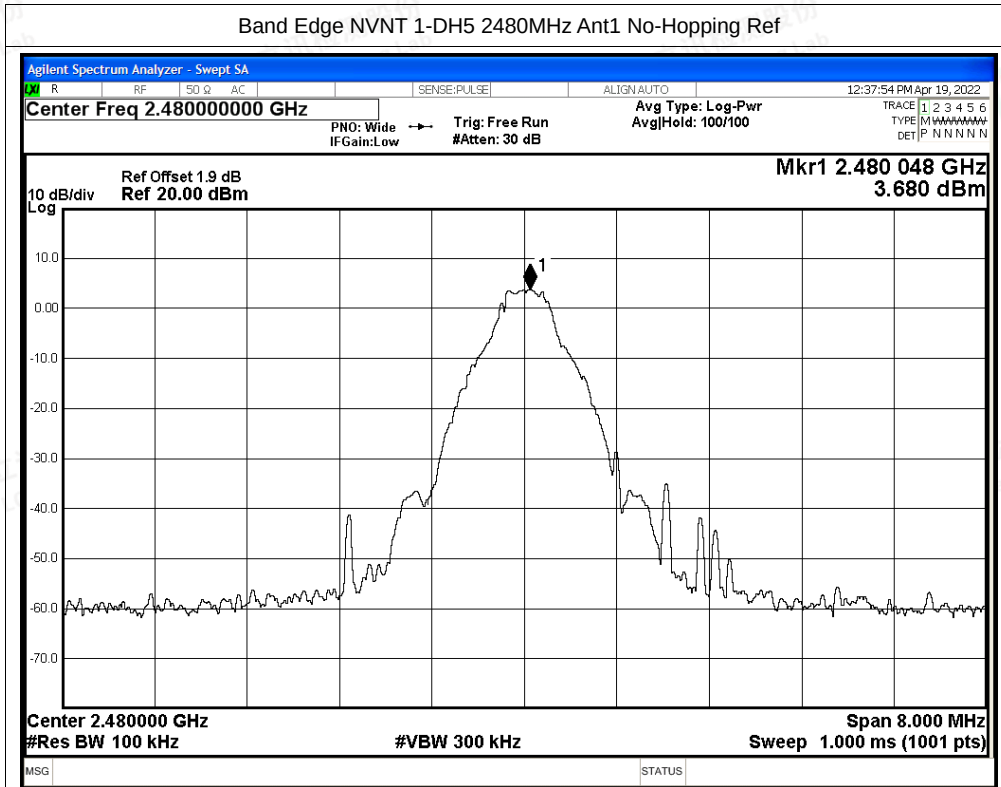
Test Graphs

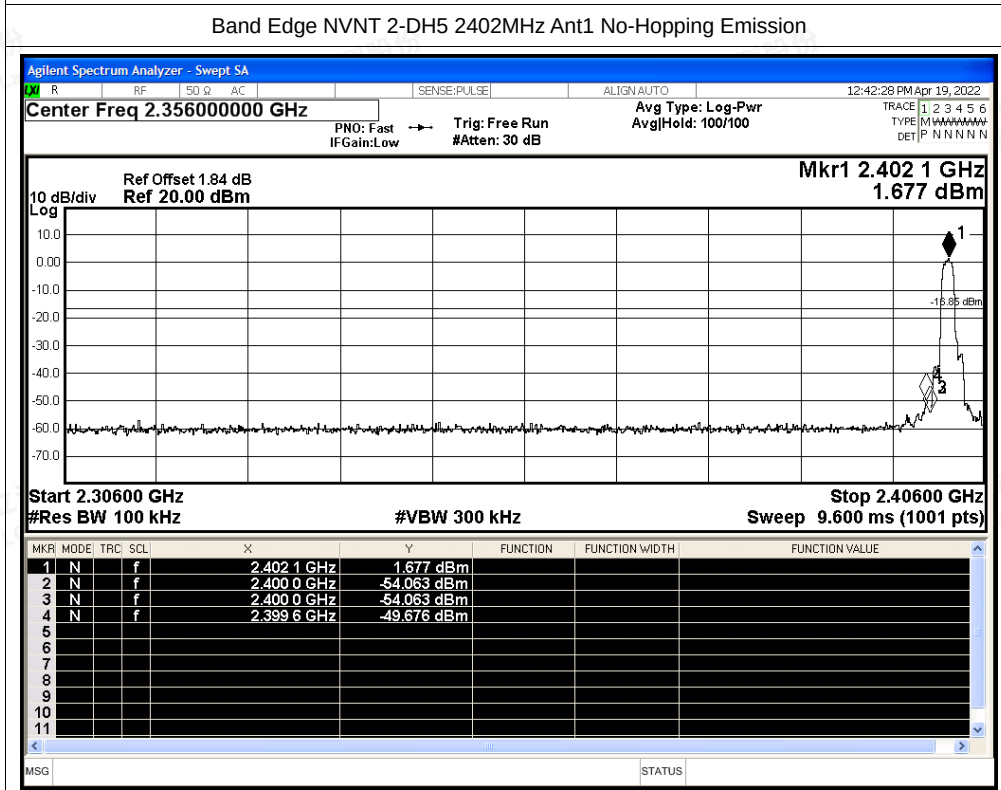
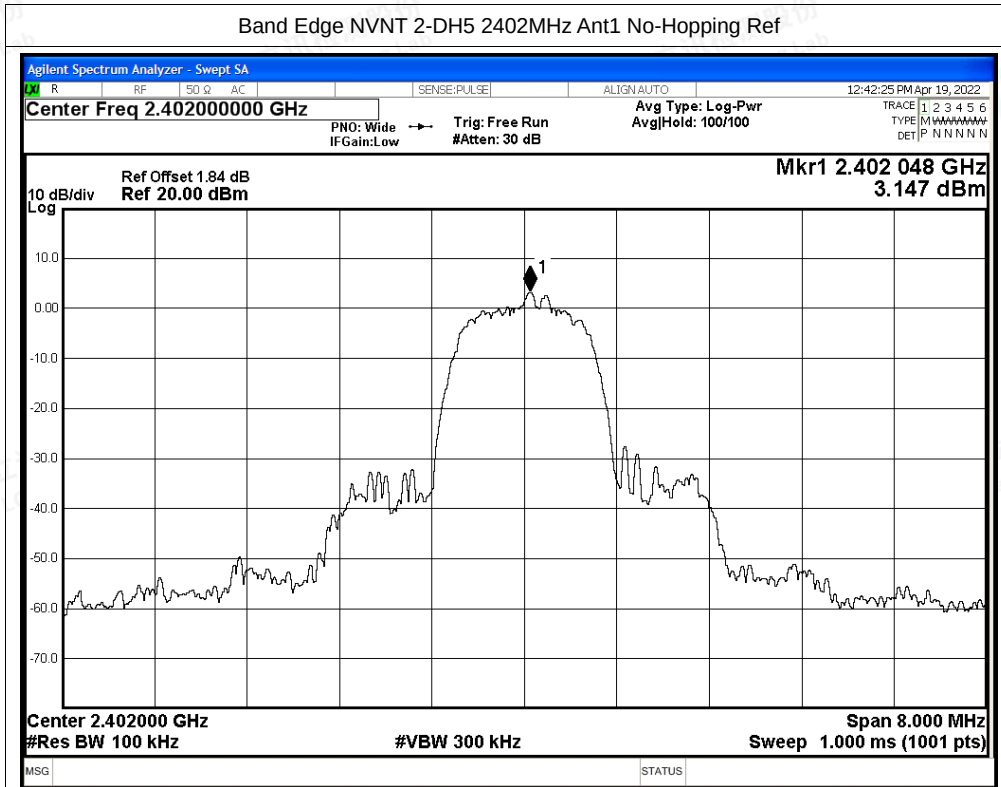
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

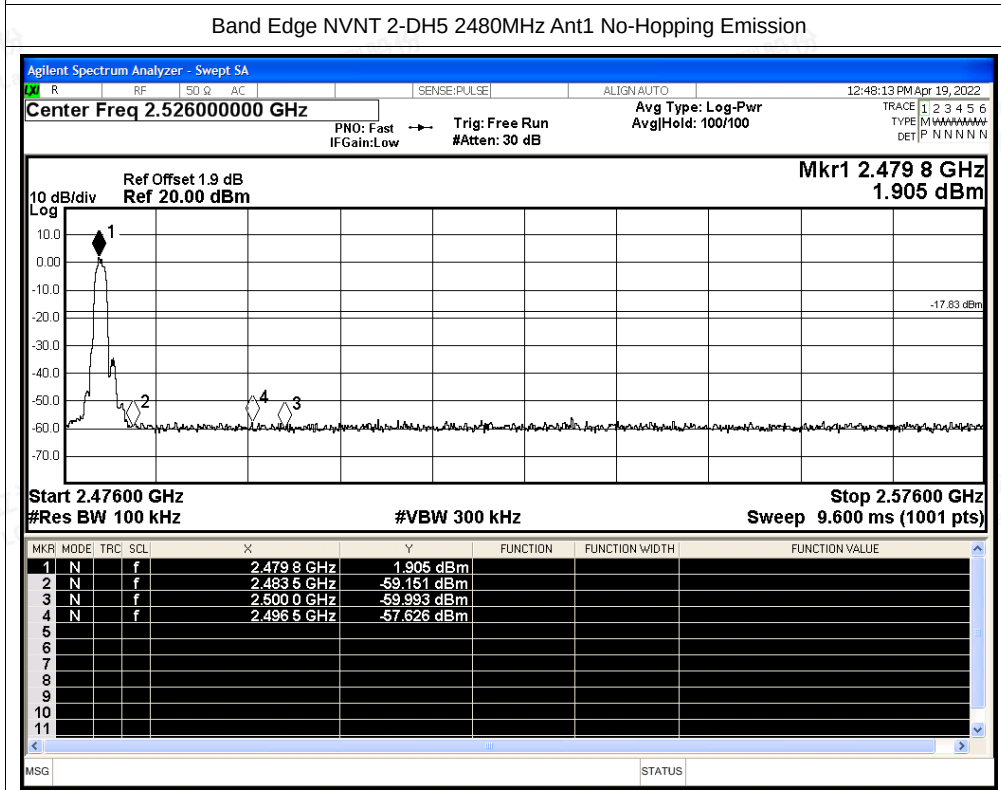
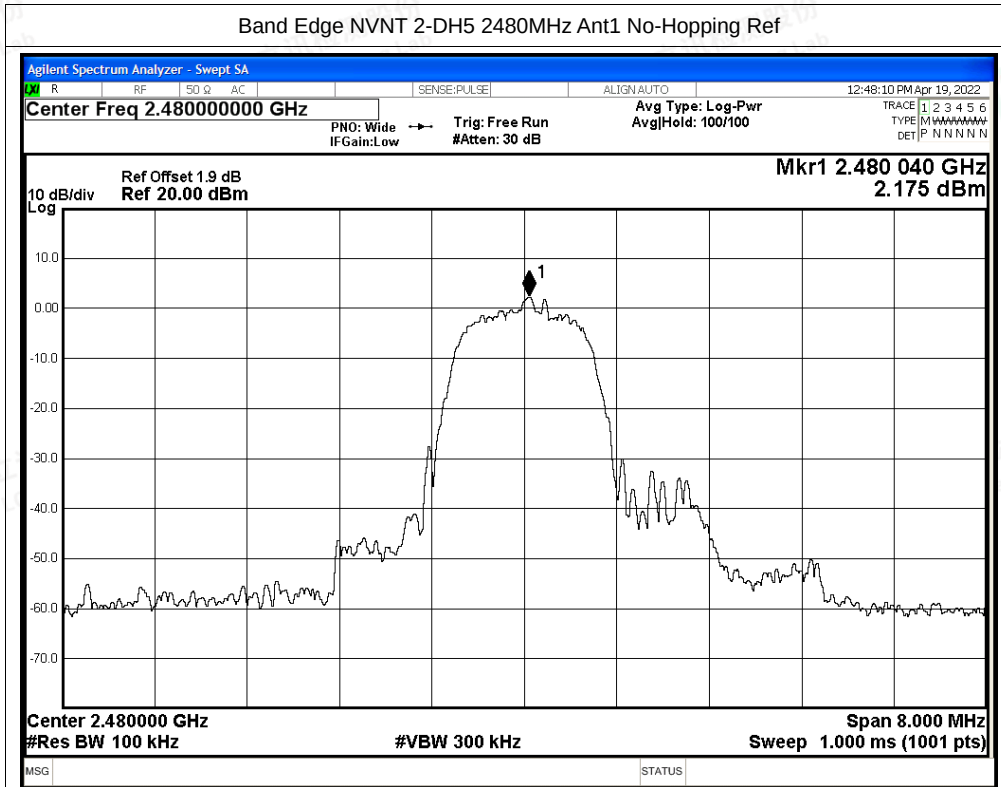


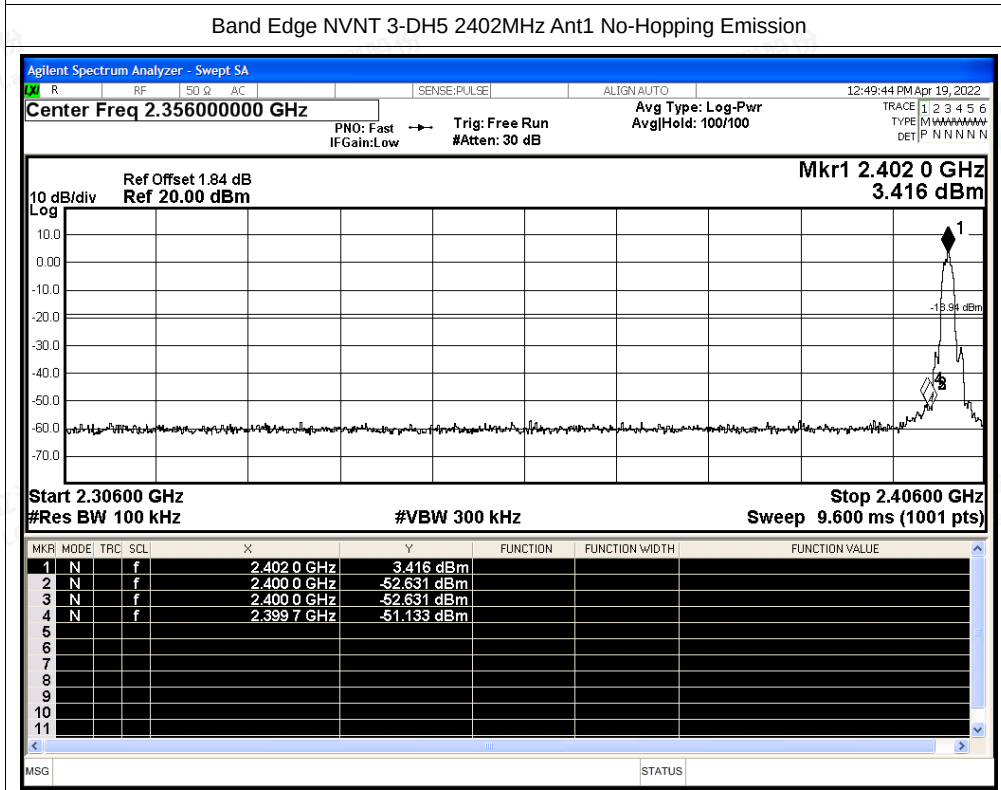
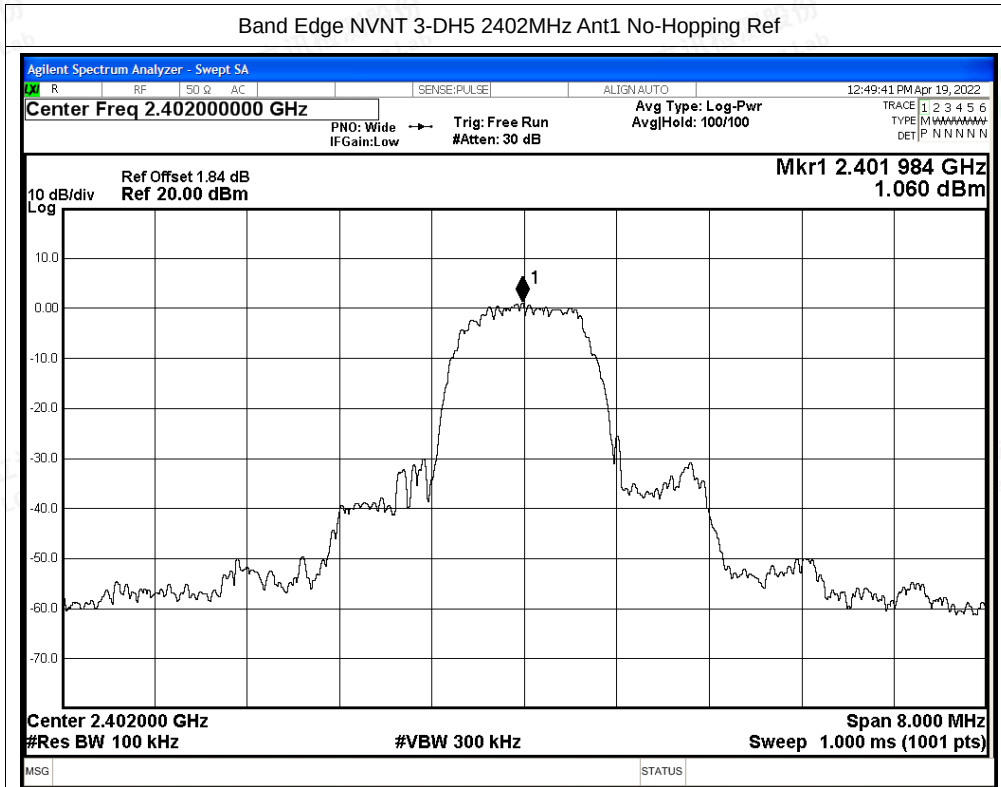
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

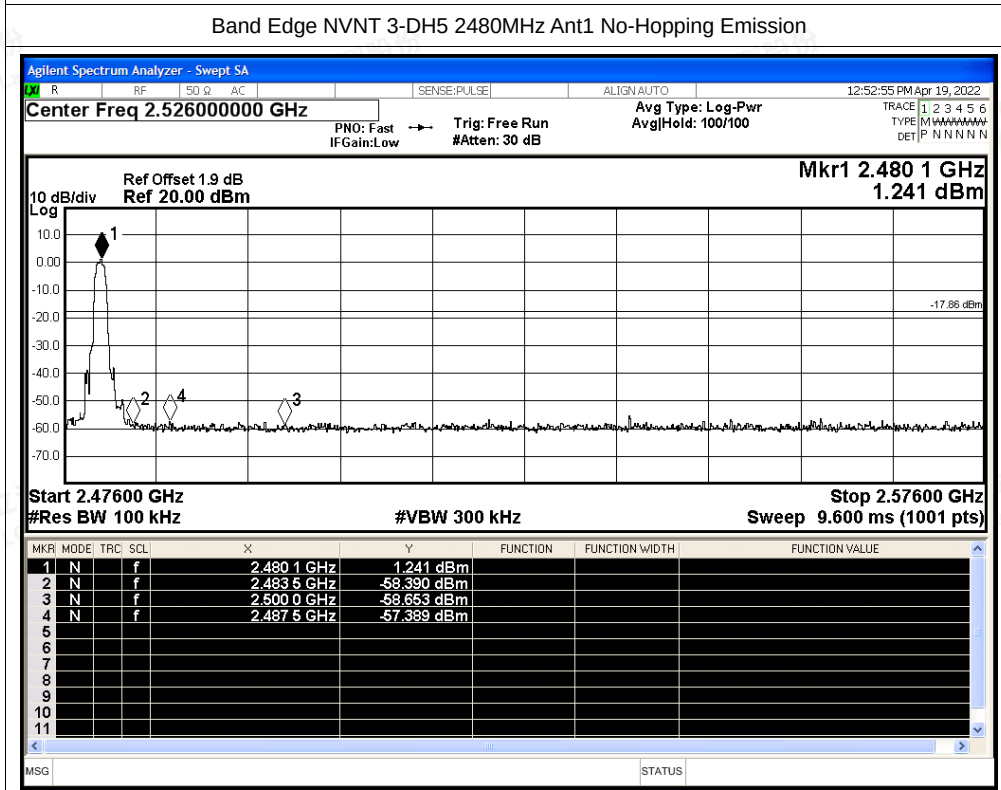
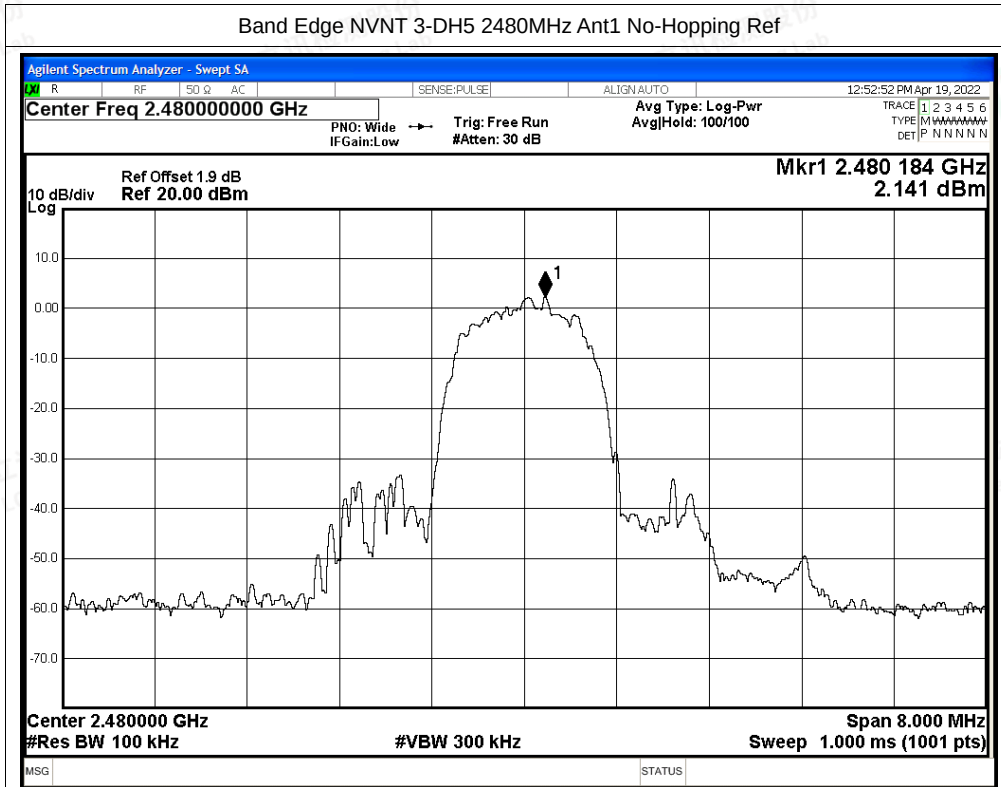














(Hopping)

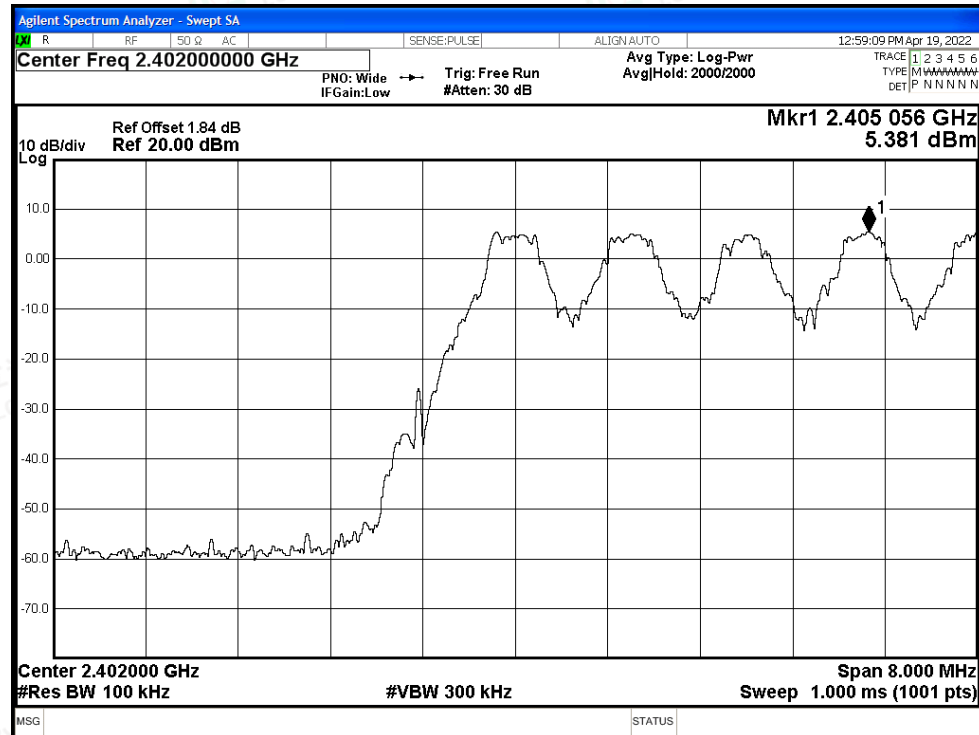
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-61.78	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.32	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.1	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.39	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-60.71	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57	-20	Pass



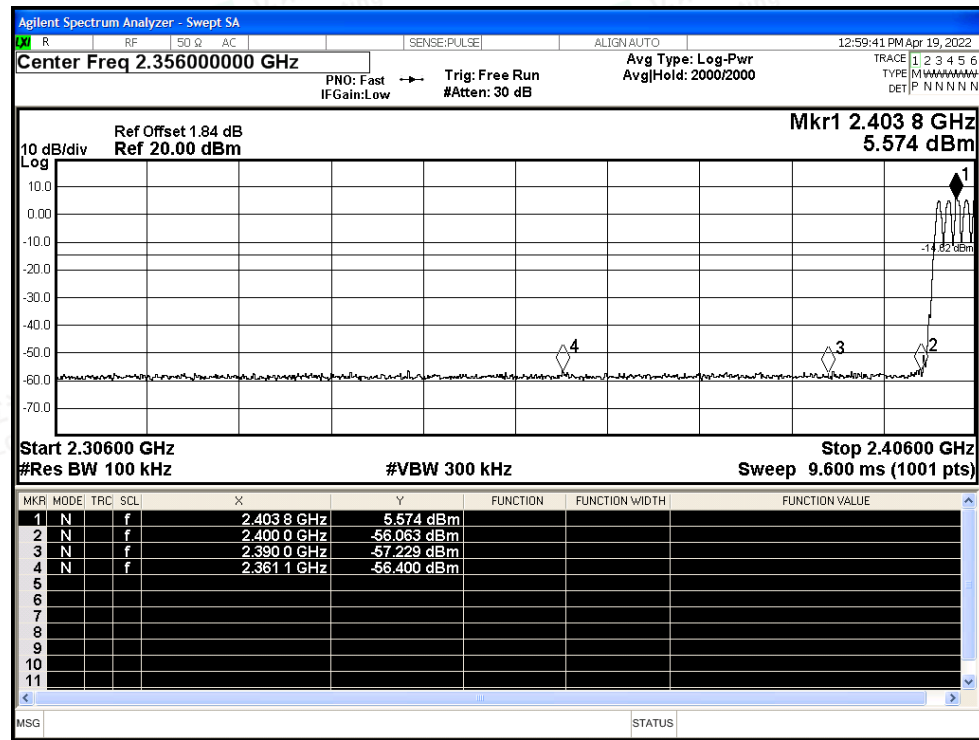


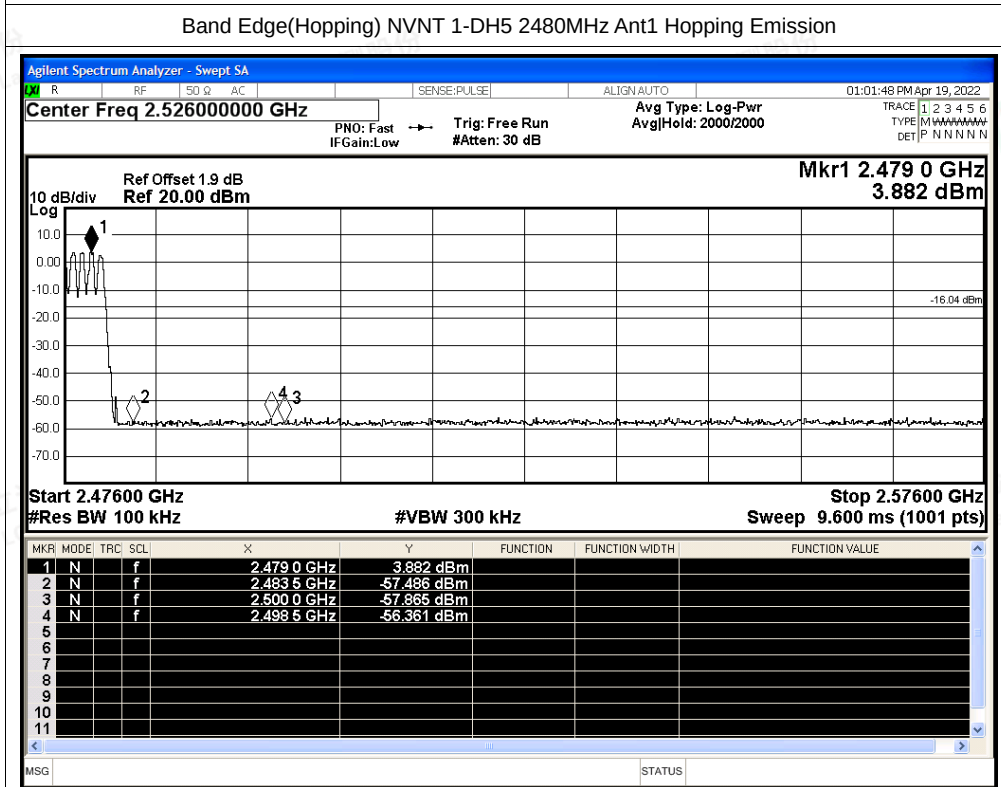
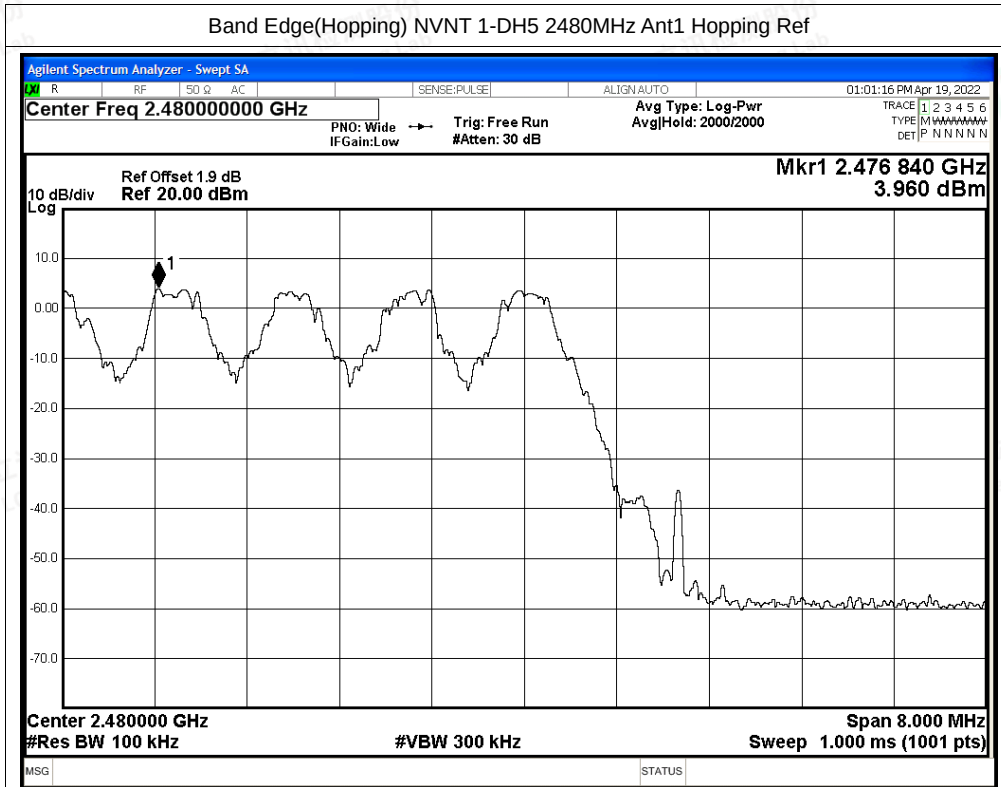
Test Graphs

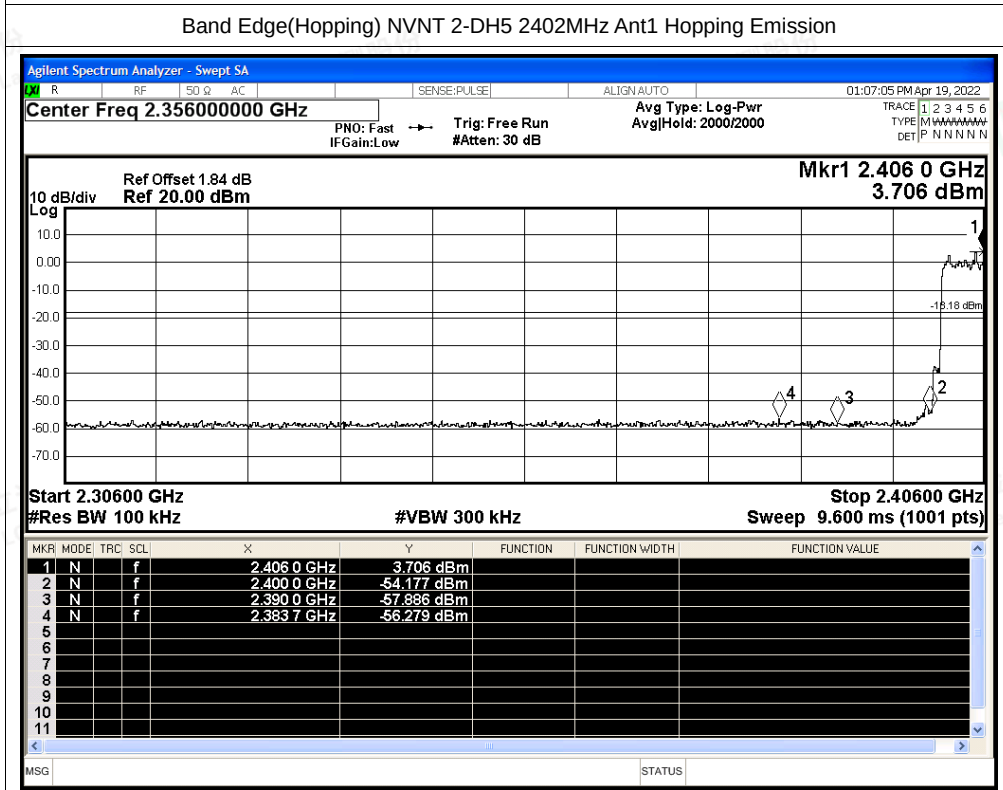
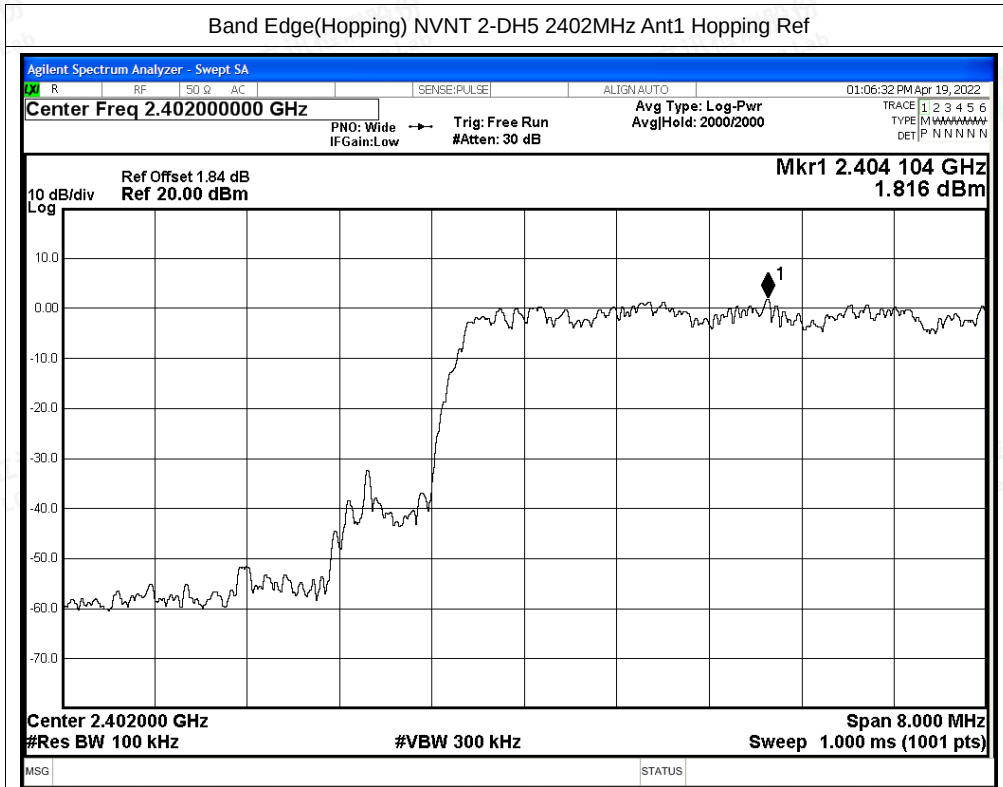
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

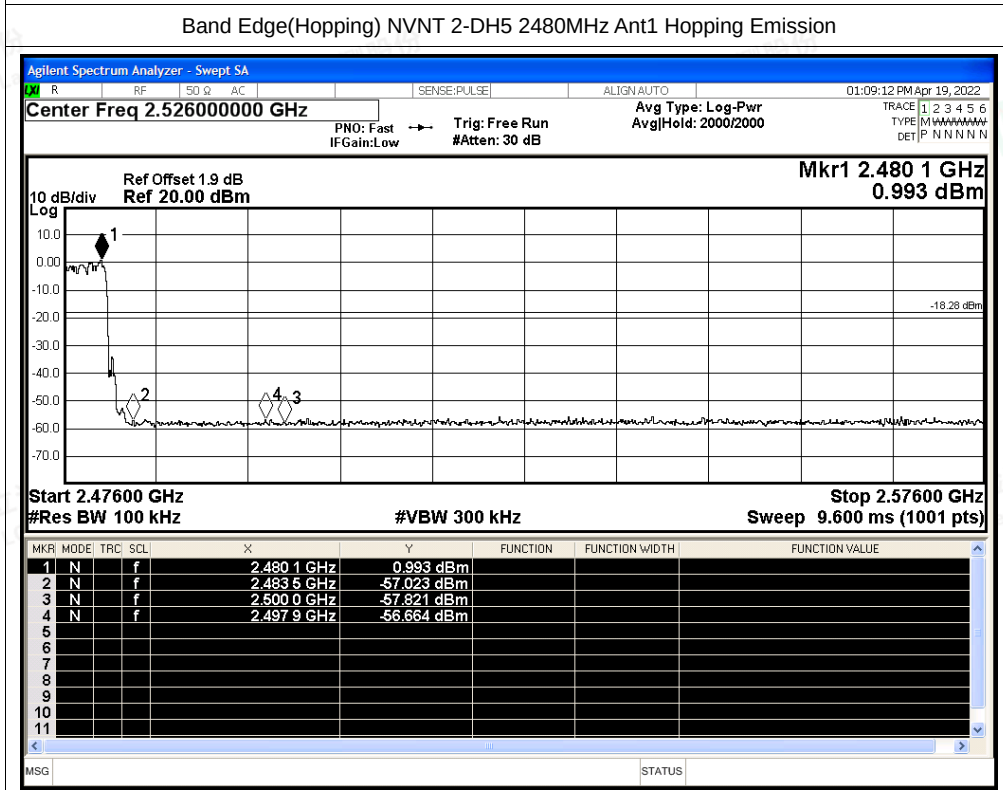
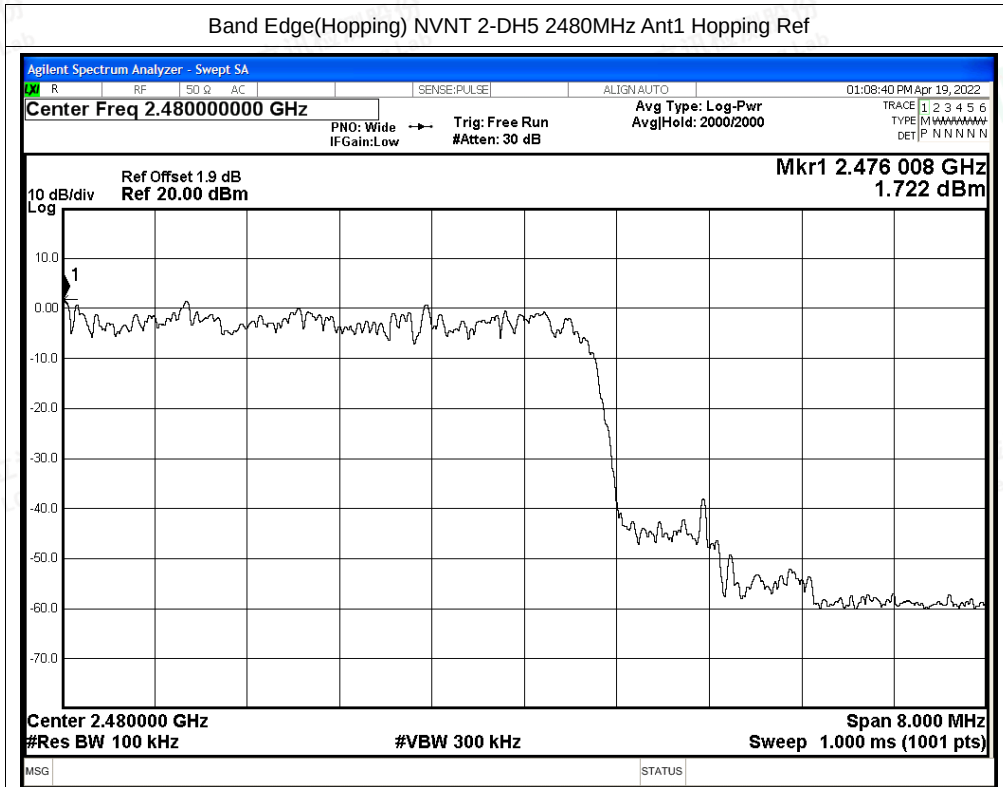


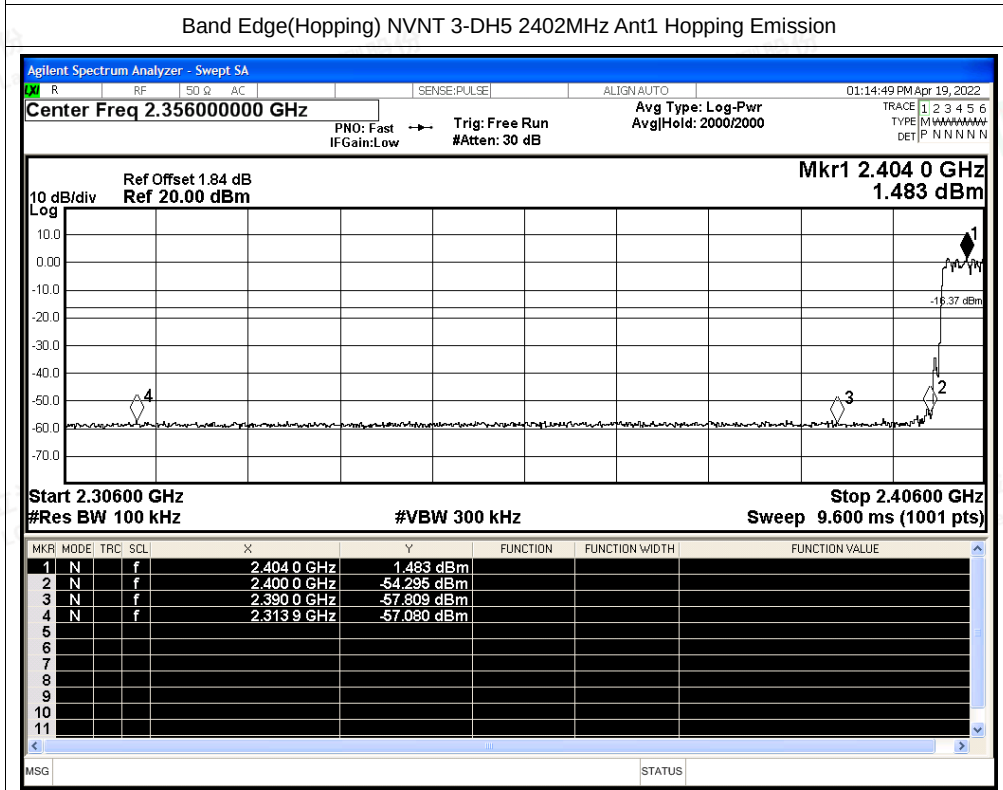
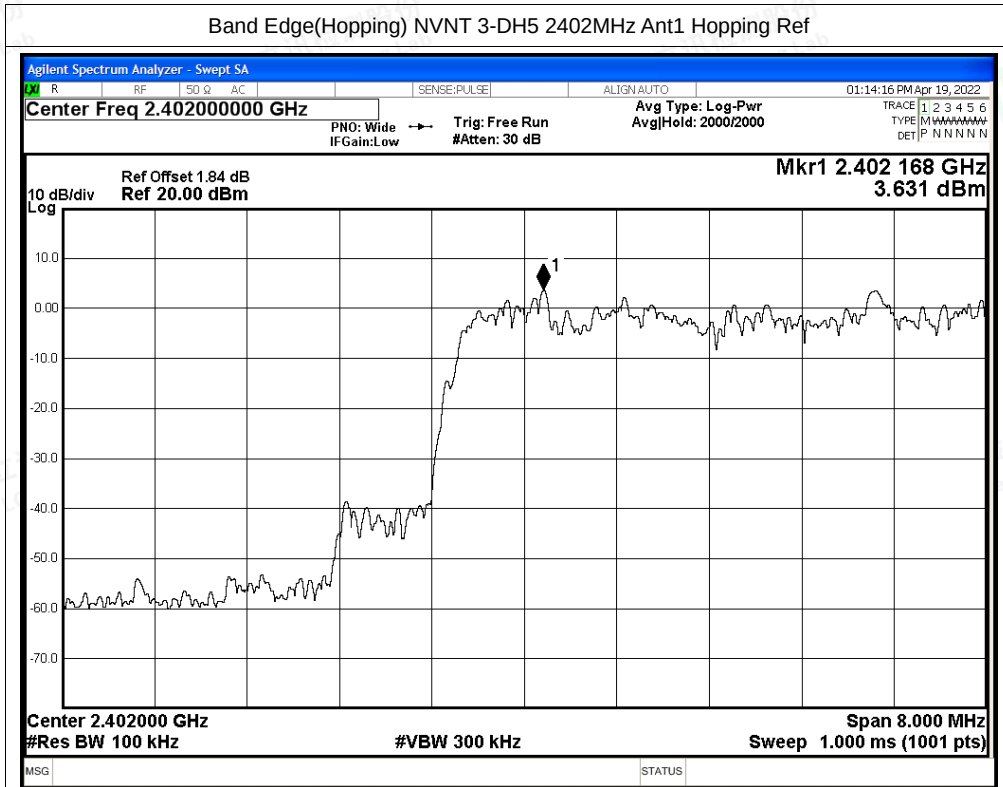
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

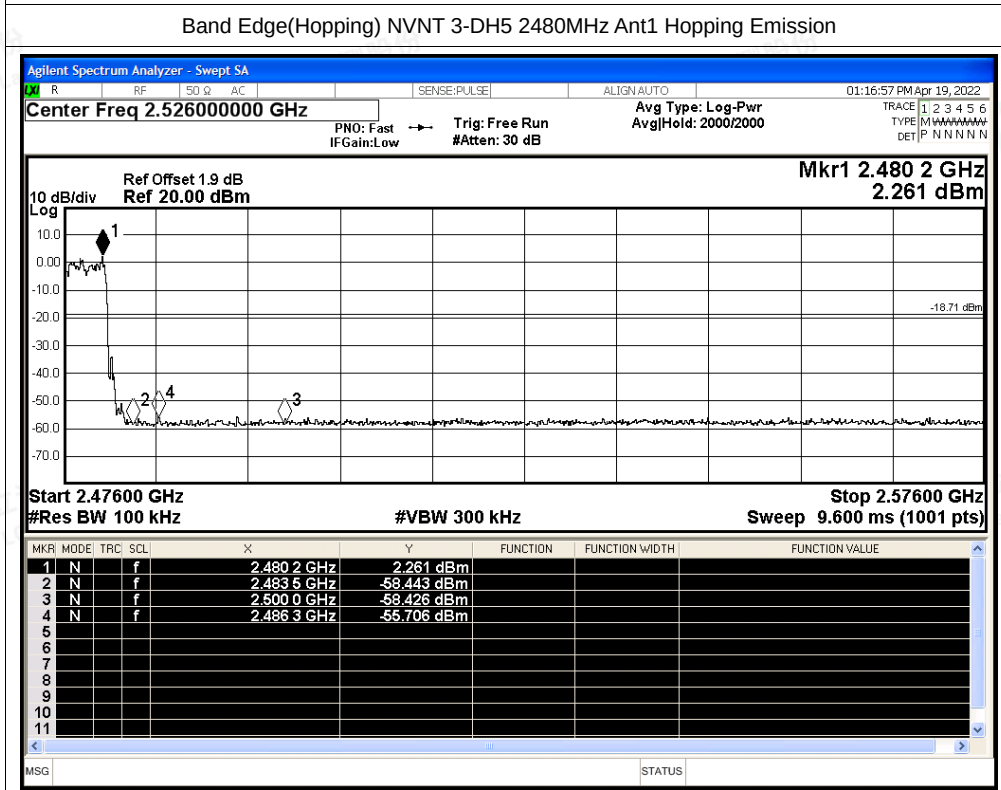
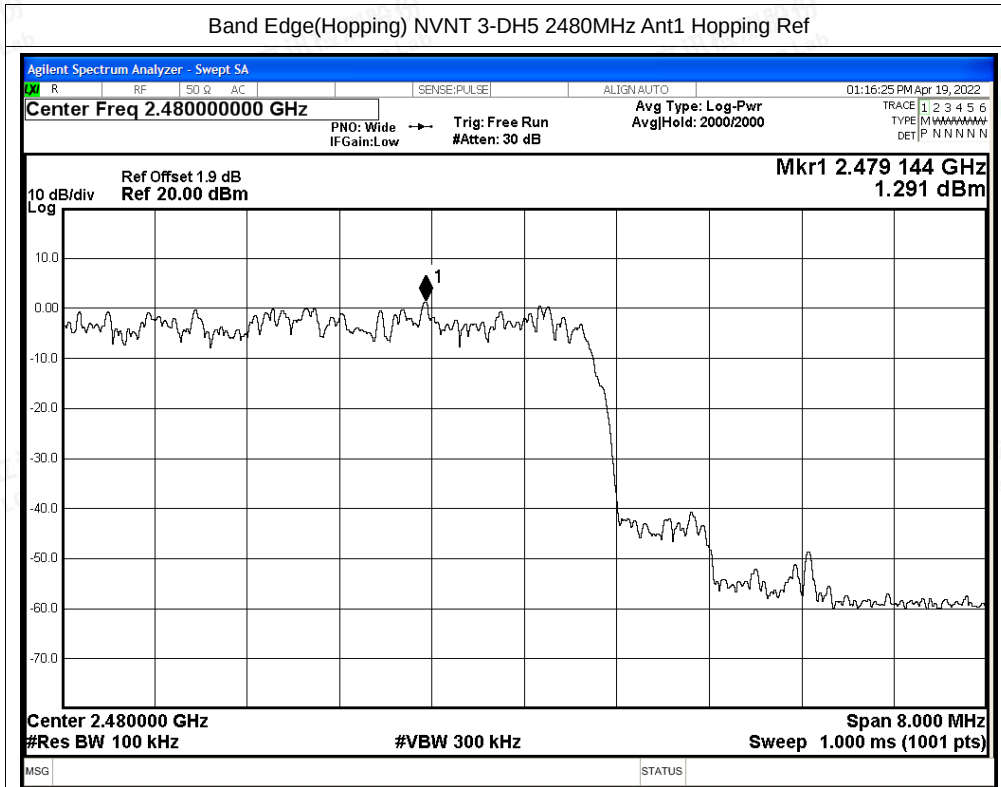














A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.34	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.19	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.68	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.95	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.84	-20	Pass
NVNT	2-DH5	2480	Ant1	-58.03	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.82	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.24	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.12	-20	Pass

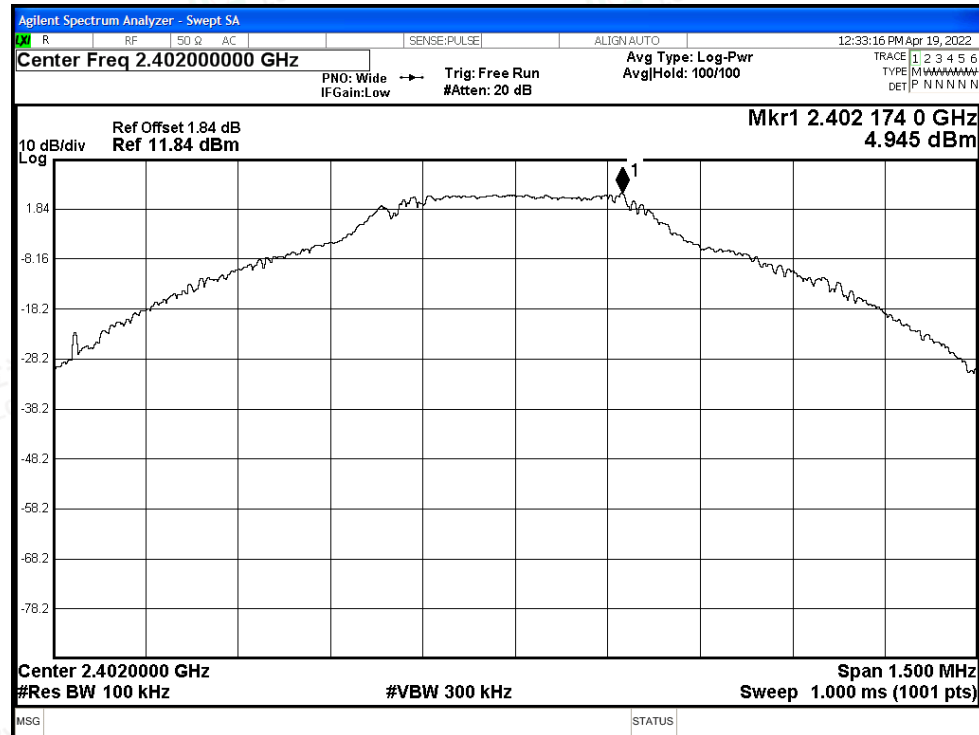


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

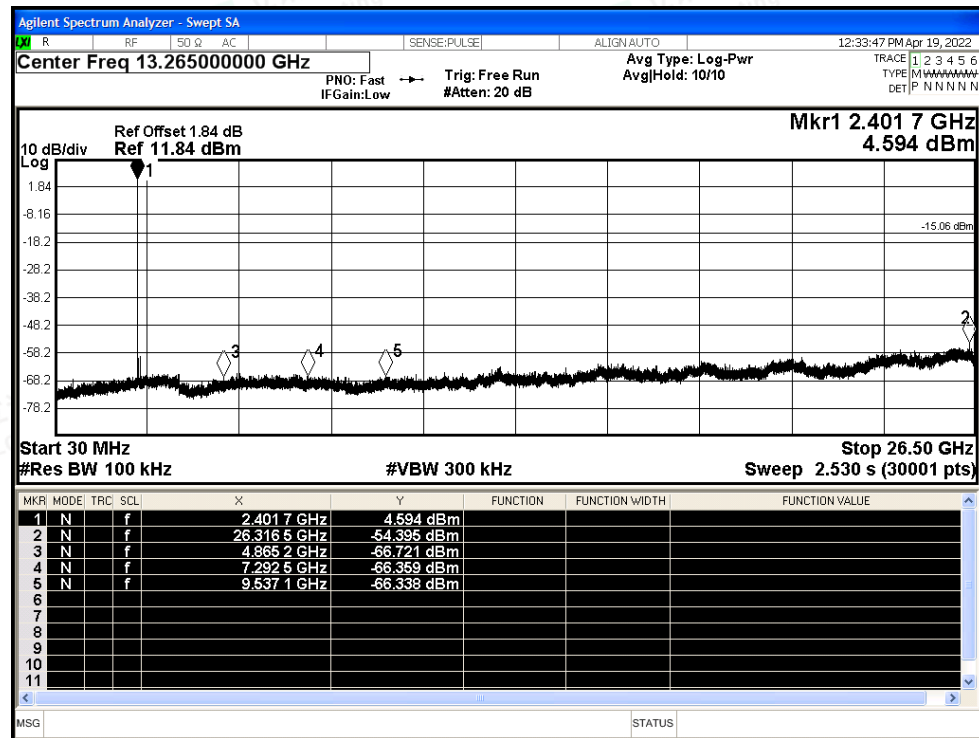


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

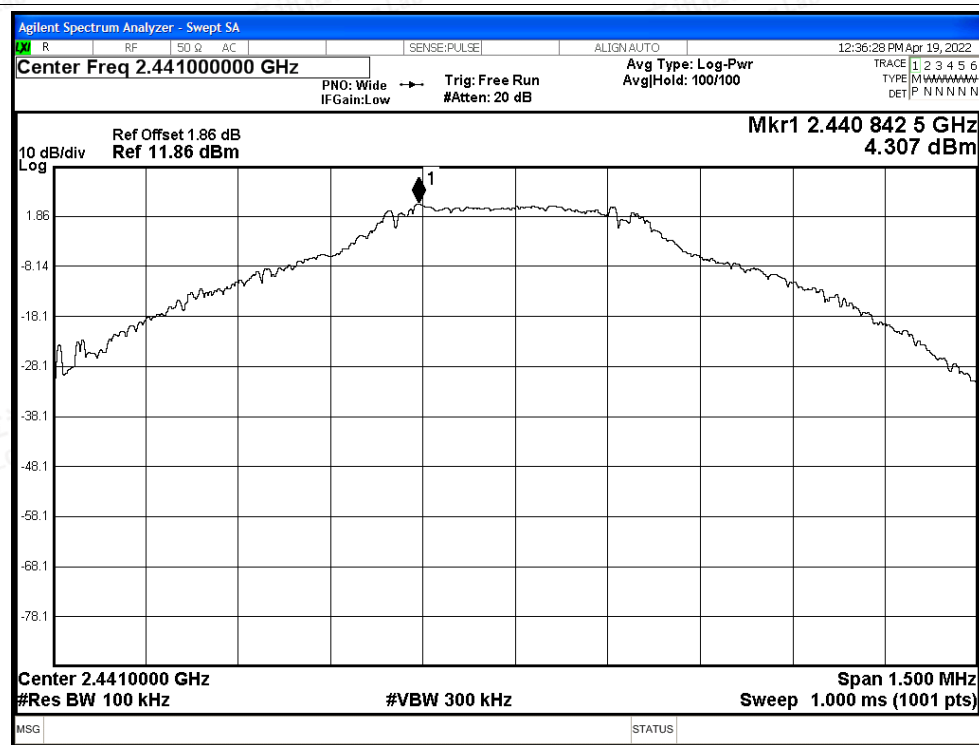


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

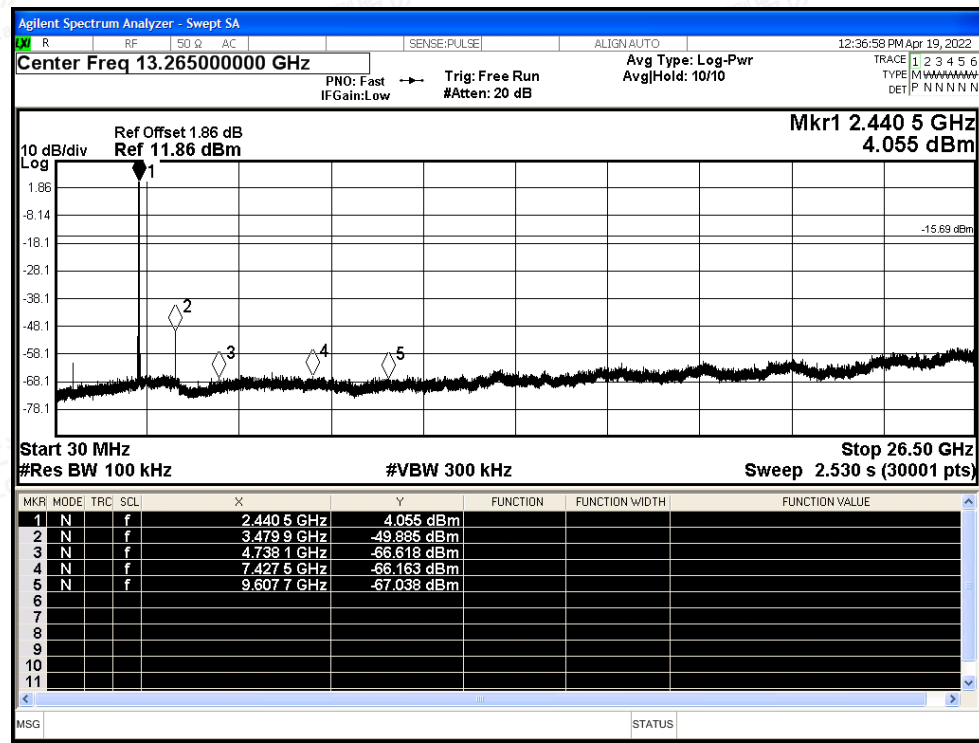




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

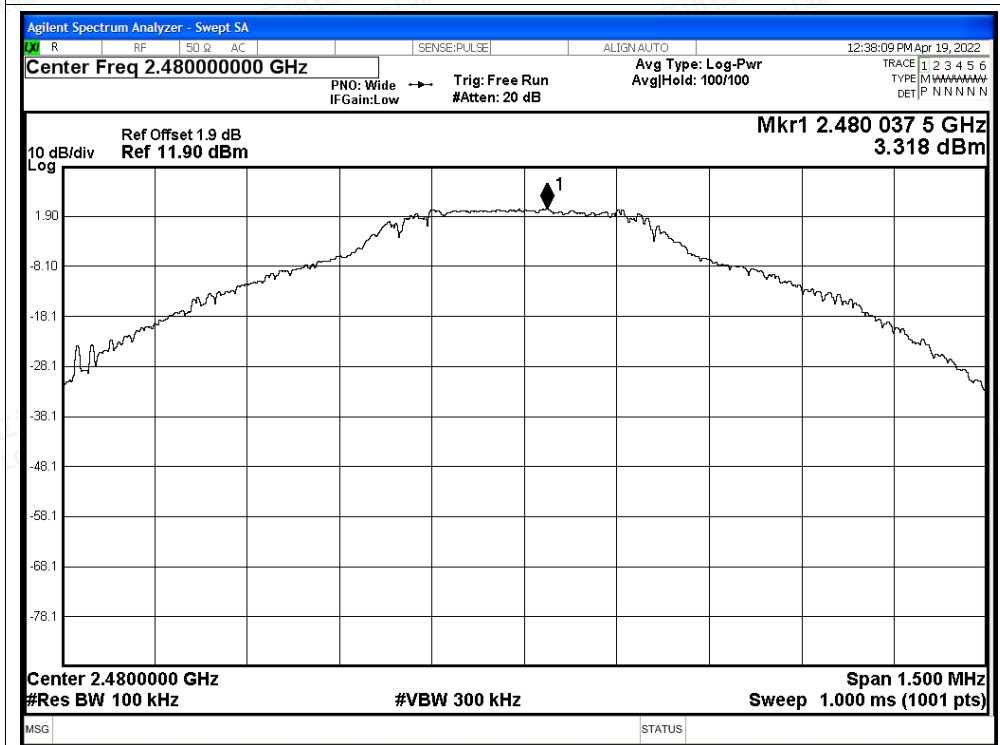


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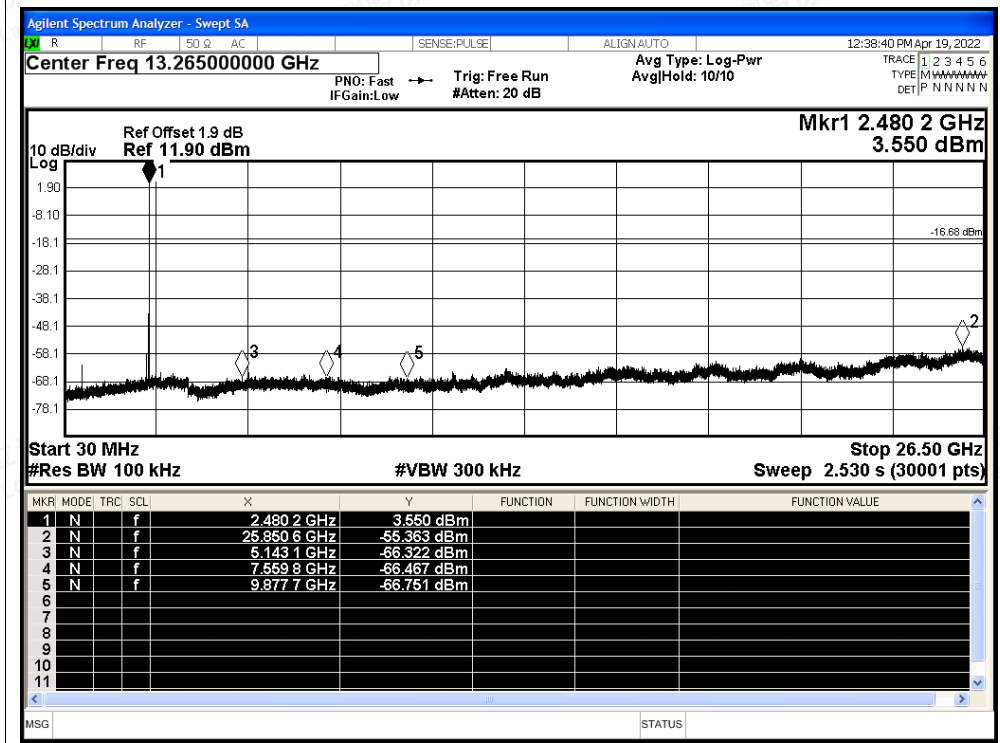




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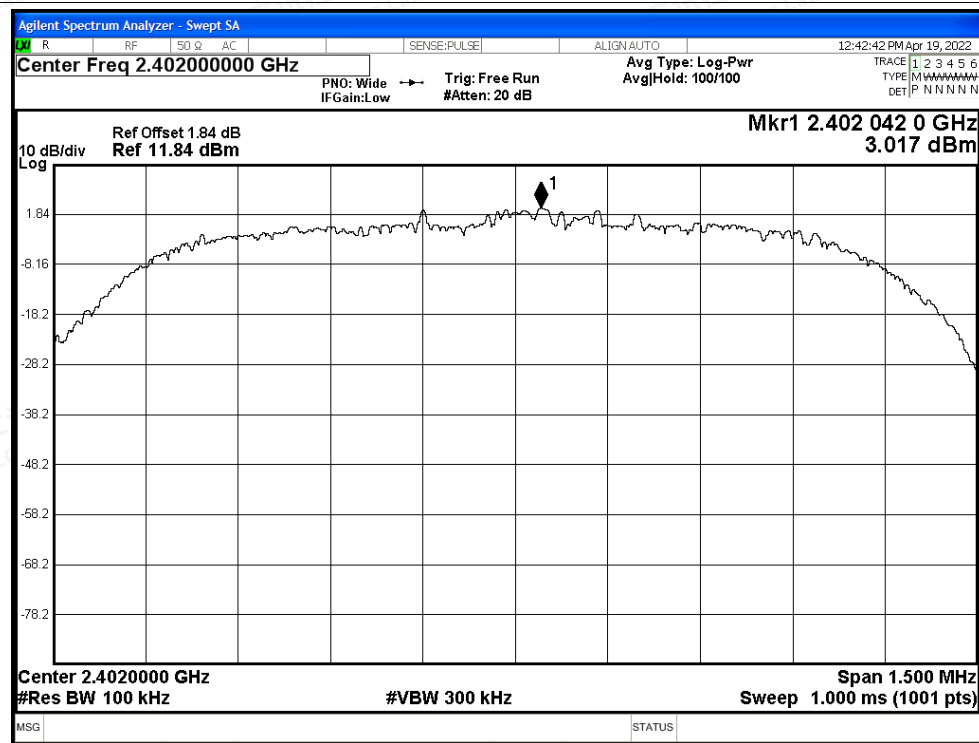


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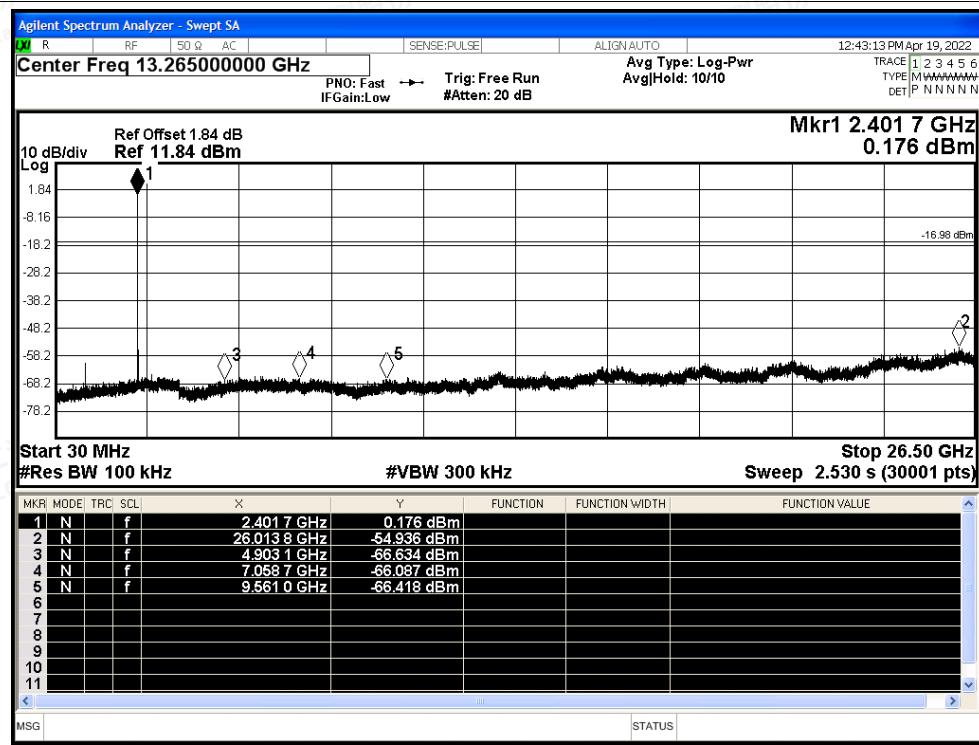




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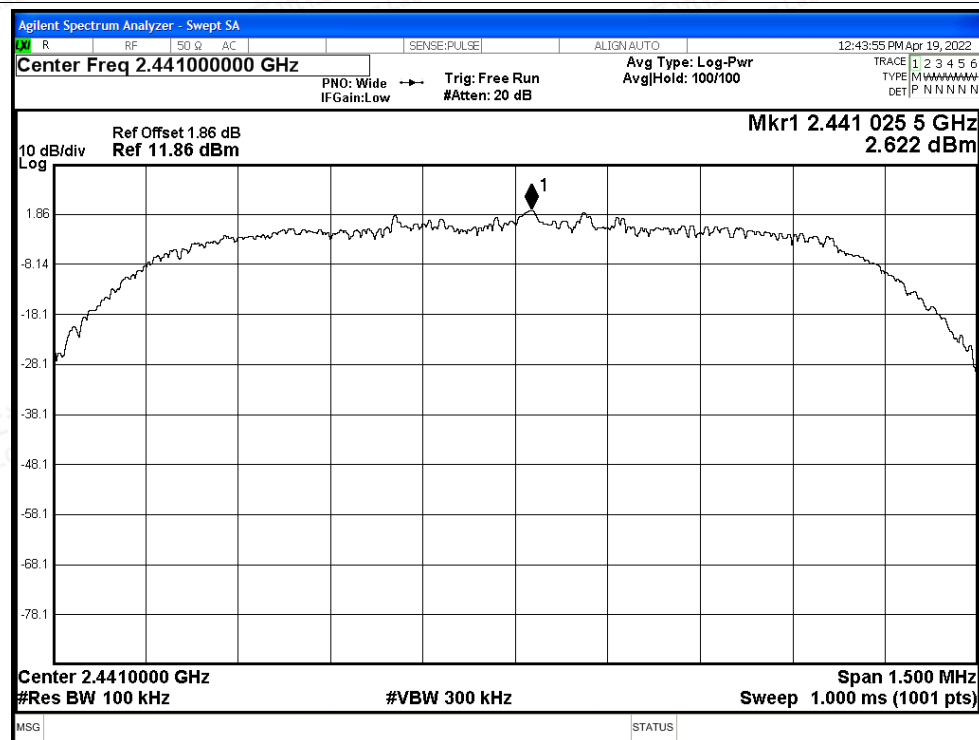


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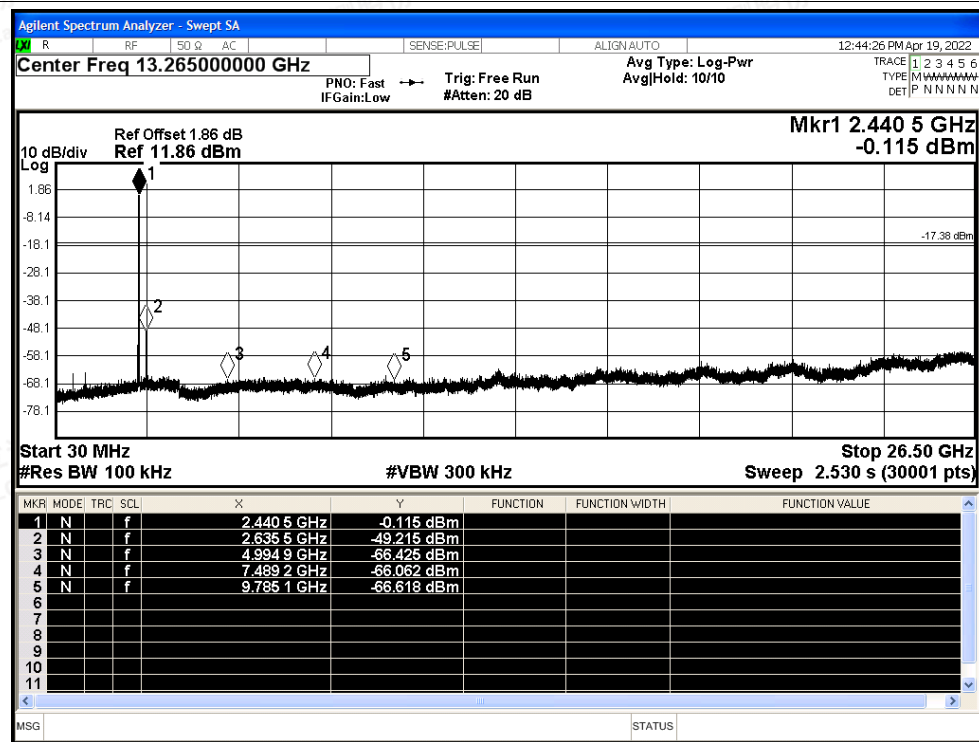




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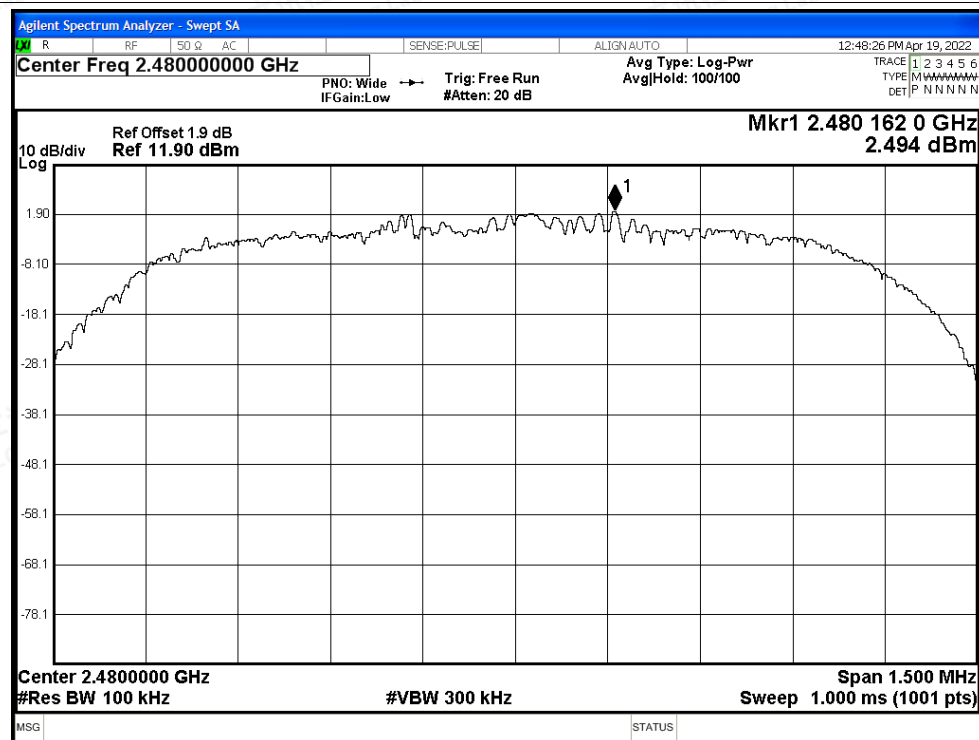


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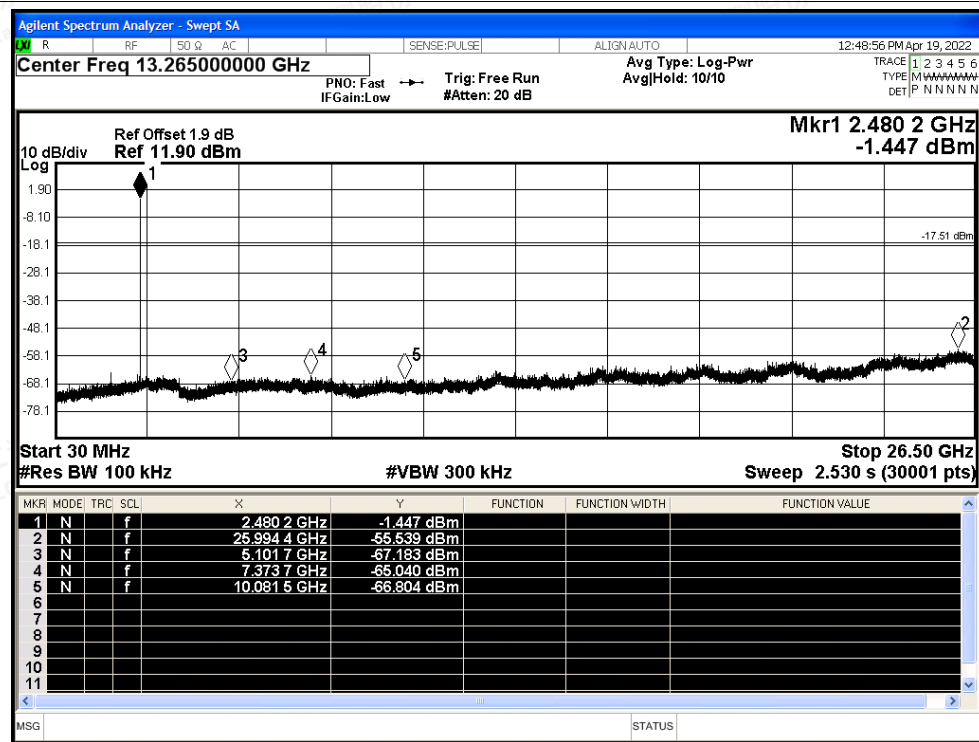




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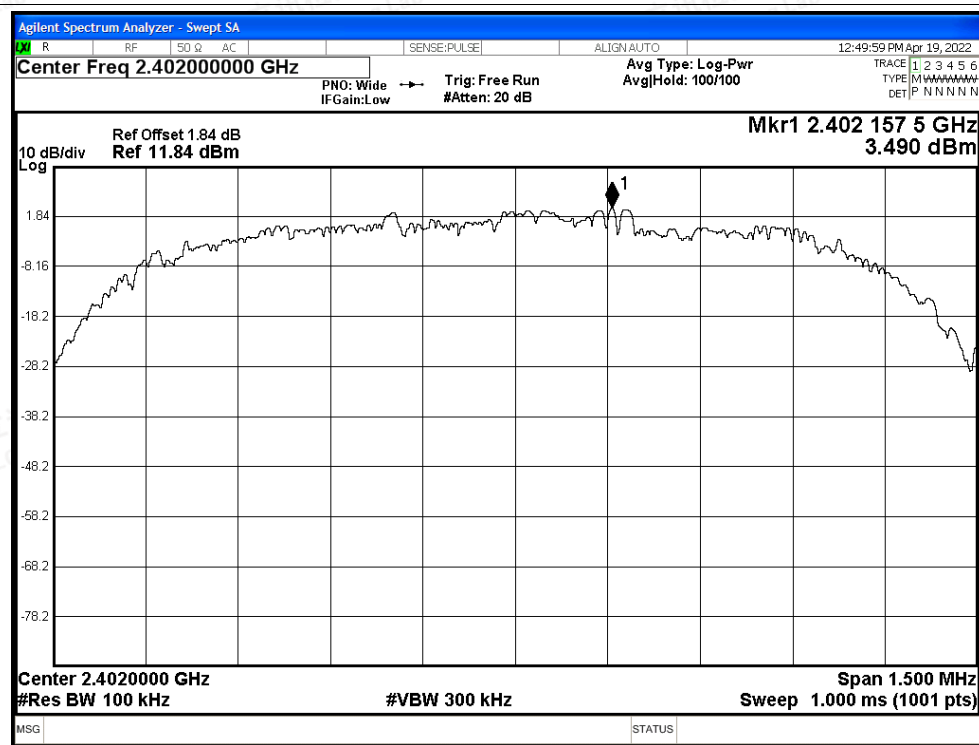


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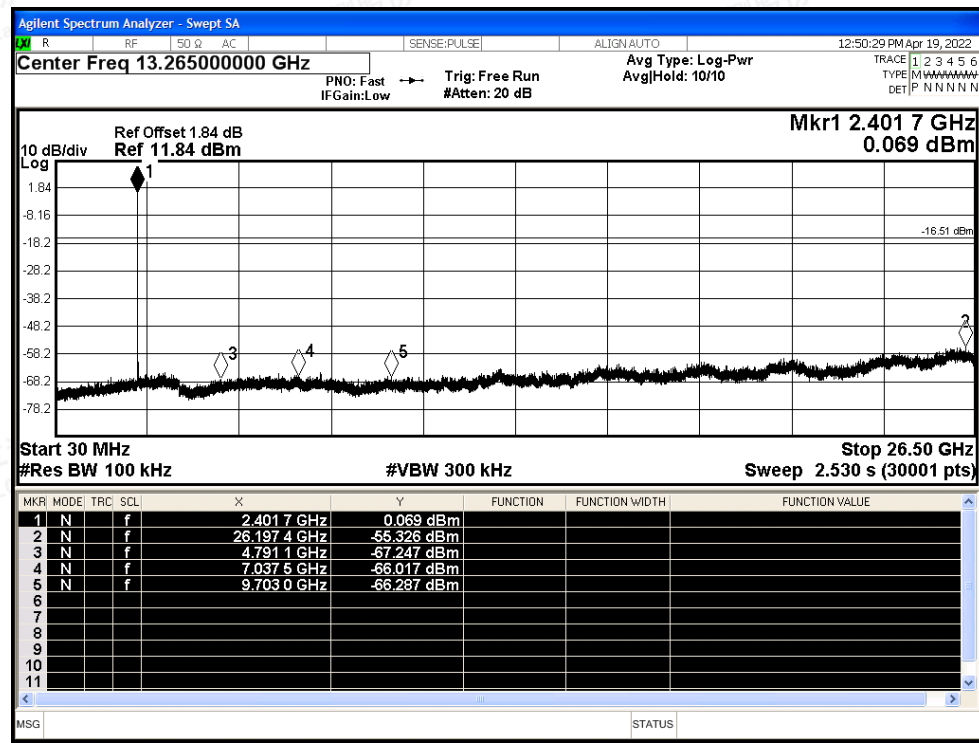




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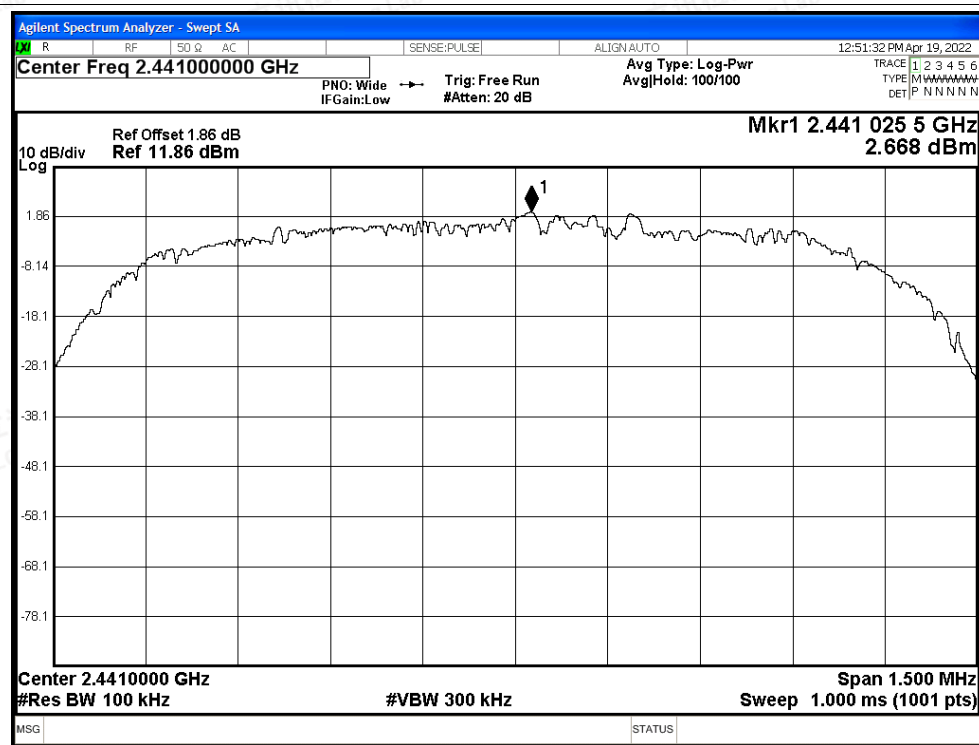


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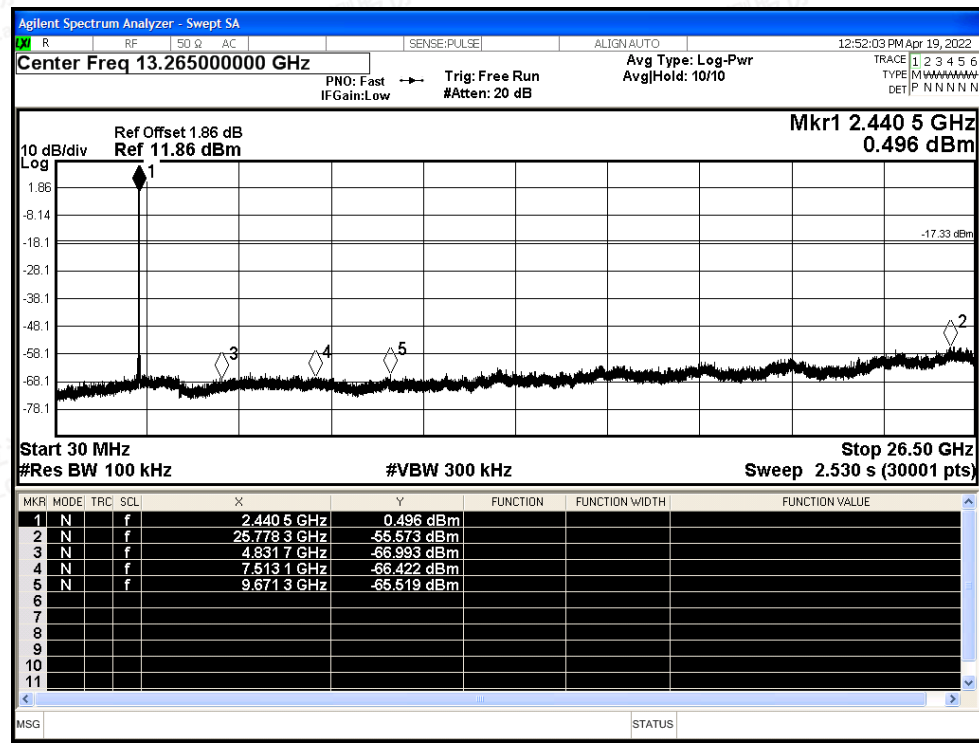




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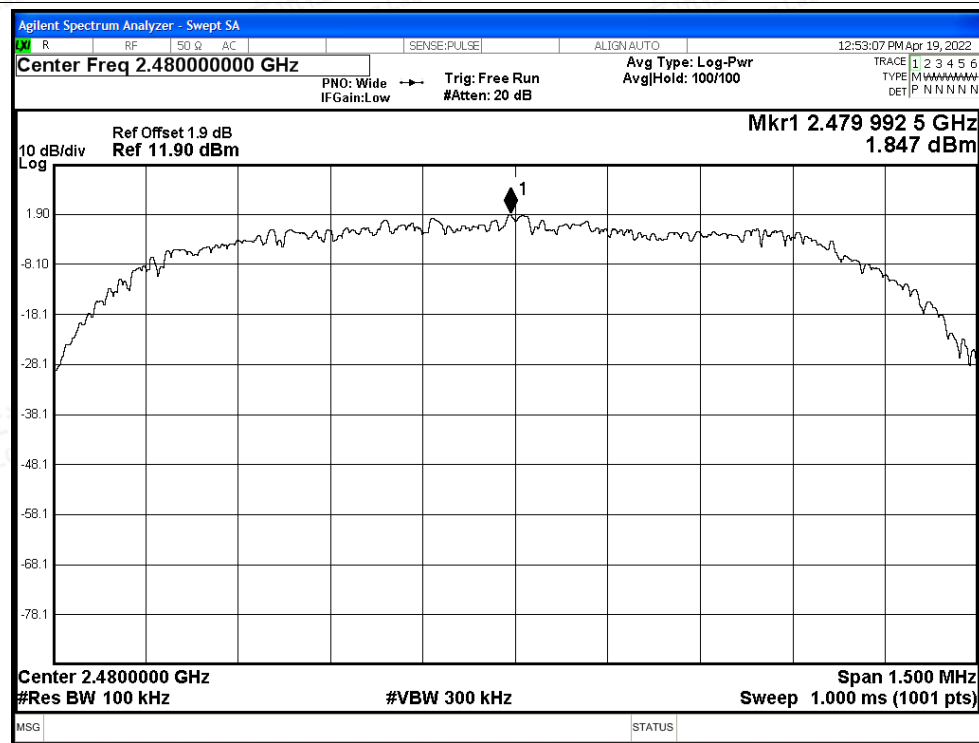


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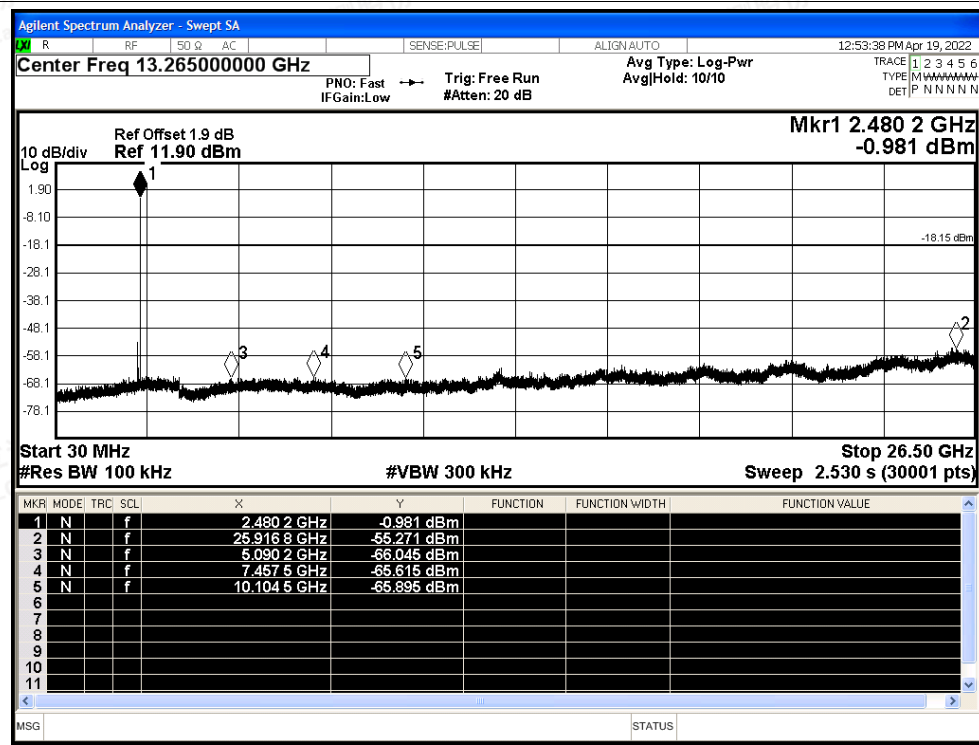




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.9 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	-51.67	2	45.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.65	2	36.61	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.912	-47.86	2	49.4	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.624	-60.15	2	37.11	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.86	2	46.4	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.29	2	36.97	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.56	2	47.7	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.84	2	38.42	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.808	-46.2	2	51.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-58.76	2	38.5	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.82	2	48.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.1	2	37.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.86	2	46.4	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.82	2	36.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.056	-47.53	2	49.73	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.296	-60.1	2	37.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.28	2	46.98	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.43	2	36.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.77	2	49.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.89	2	38.37	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.824	-47.32	2	49.94	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-58.81	2	38.45	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.09	2	46.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.07	2	37.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.65	2	46.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.56	2	36.7	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.992	-47.51	2	49.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.304	-60.26	2	37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.37	2	46.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.2	2	37.06	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.82	2	48.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.76	2	38.5	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.328	-46.37	2	50.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-58.7	2	38.56	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.02	2	48.24	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.94	2	37.32	Average	54	Pass

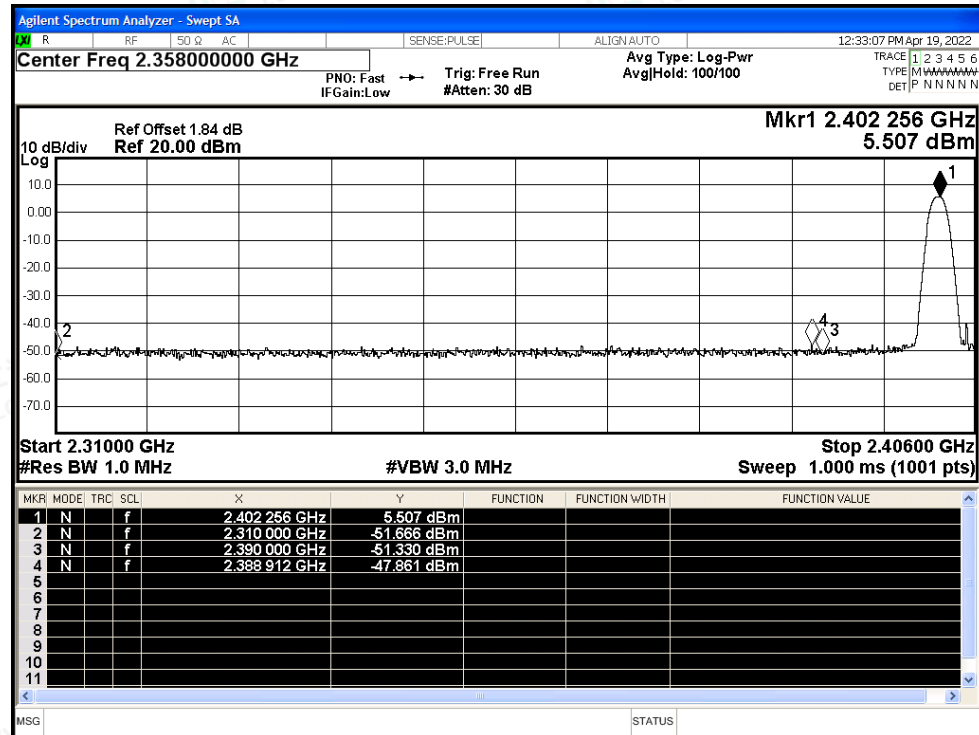


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Scan code to check authenticity



Test Graphs

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



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

