

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: LED PROJECTOR

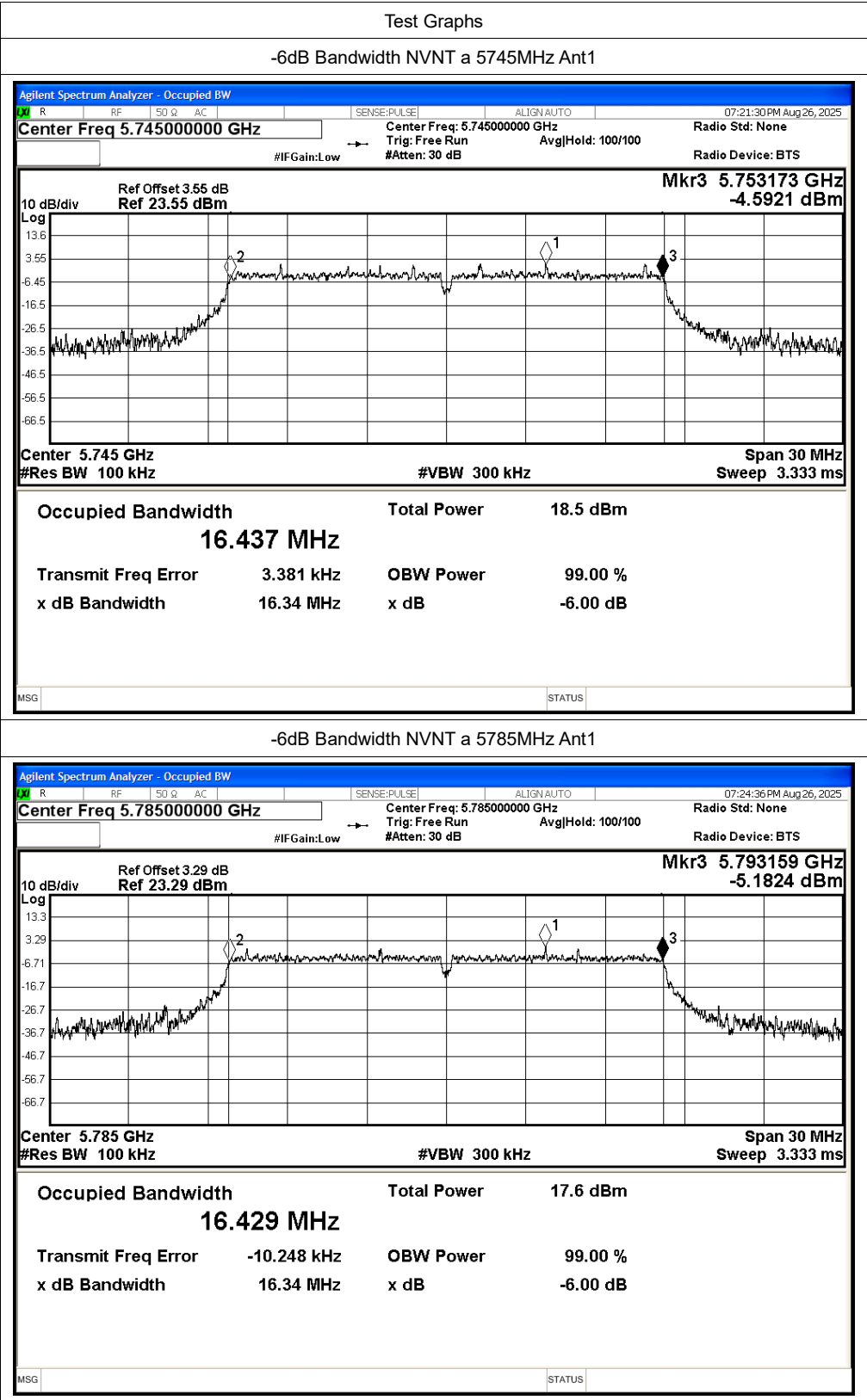
Test Model: Gimbal N6 Pro

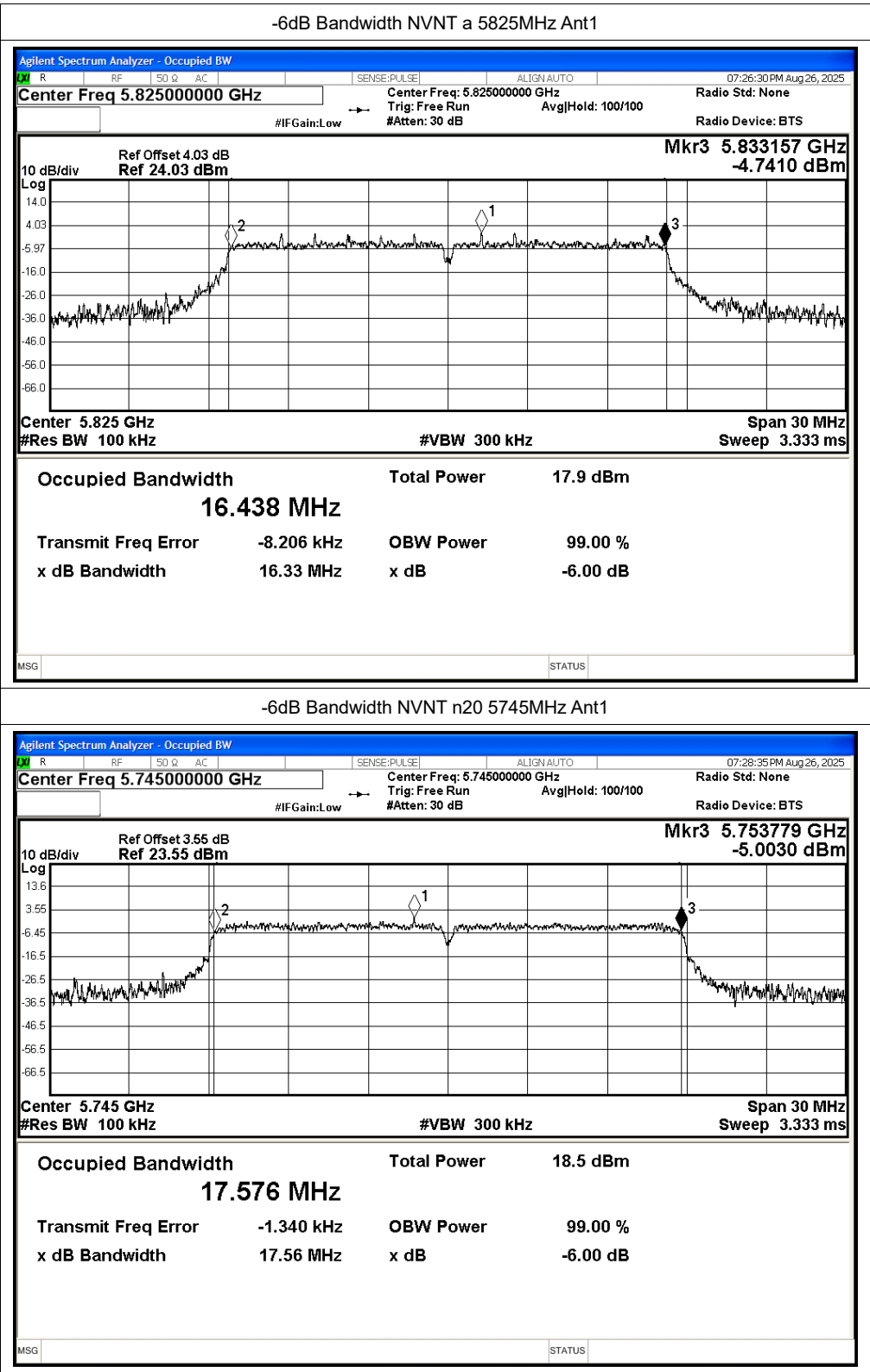
Environmental Conditions

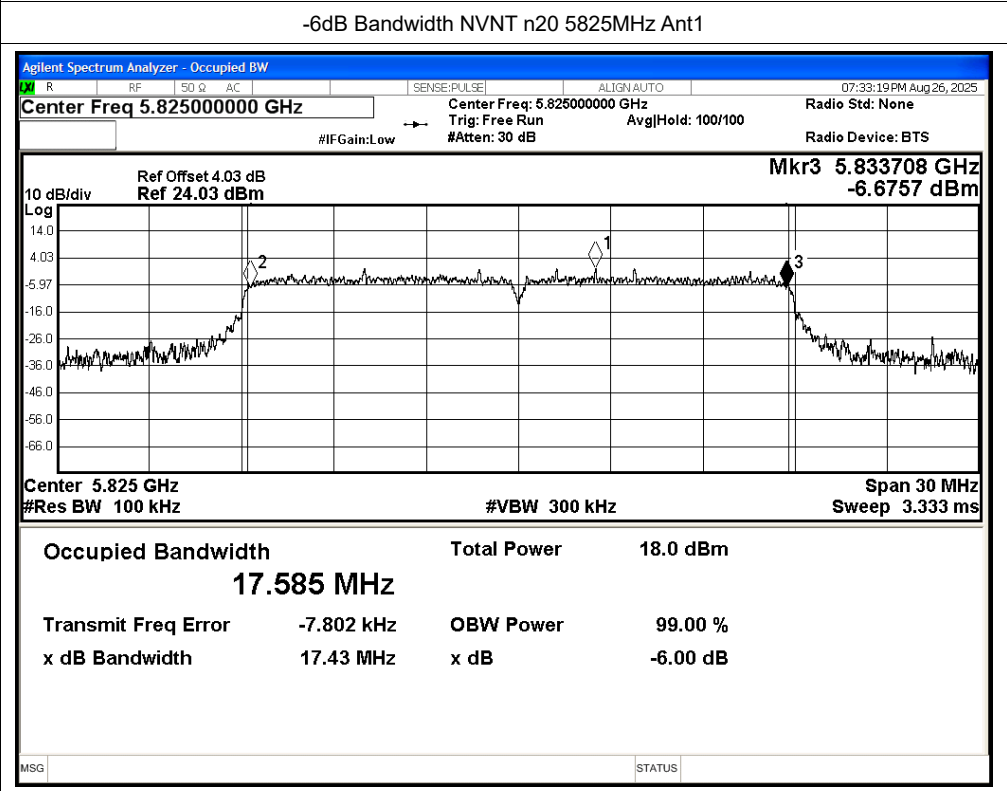
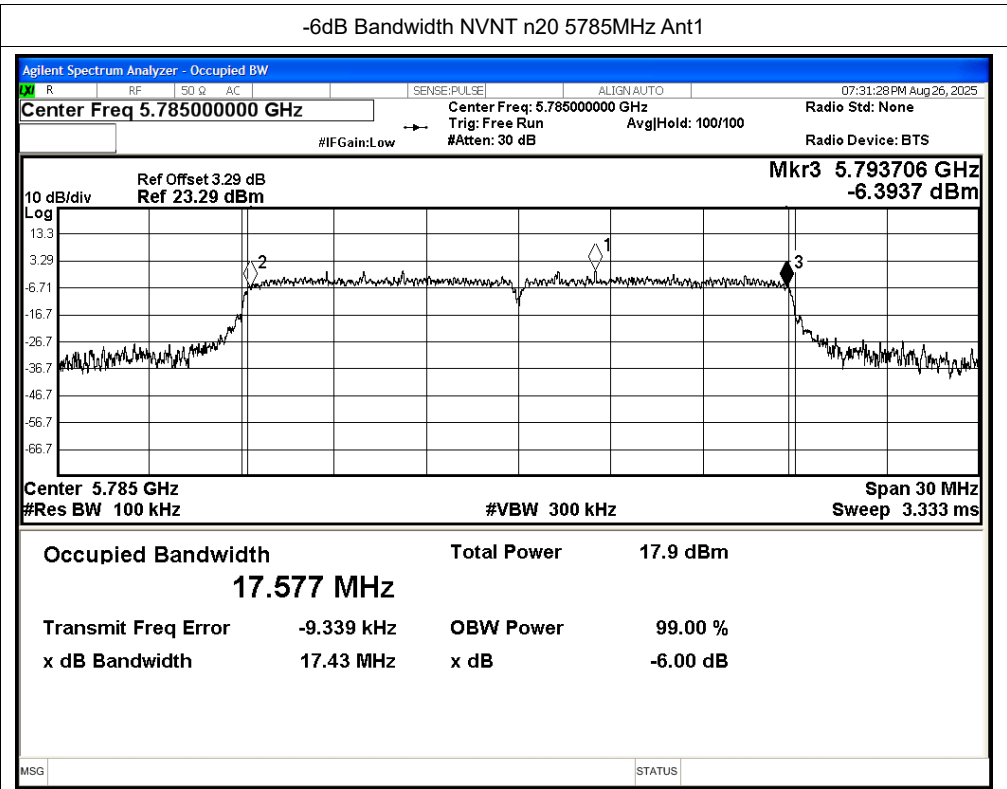
Temperature:	23.8°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

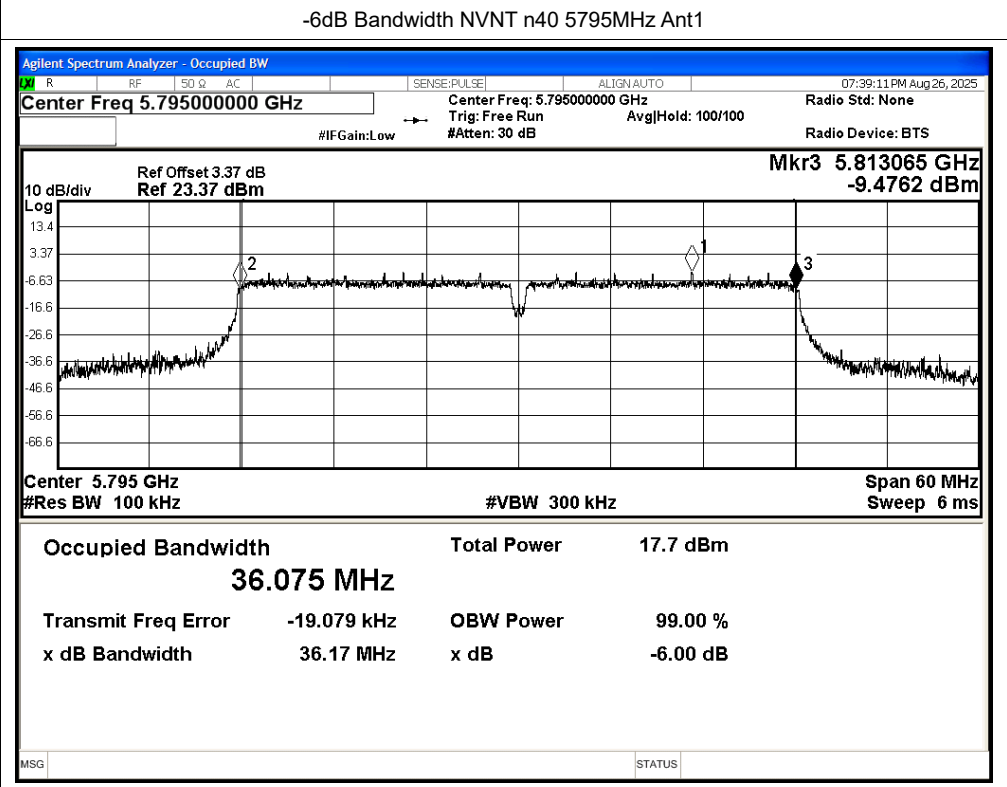
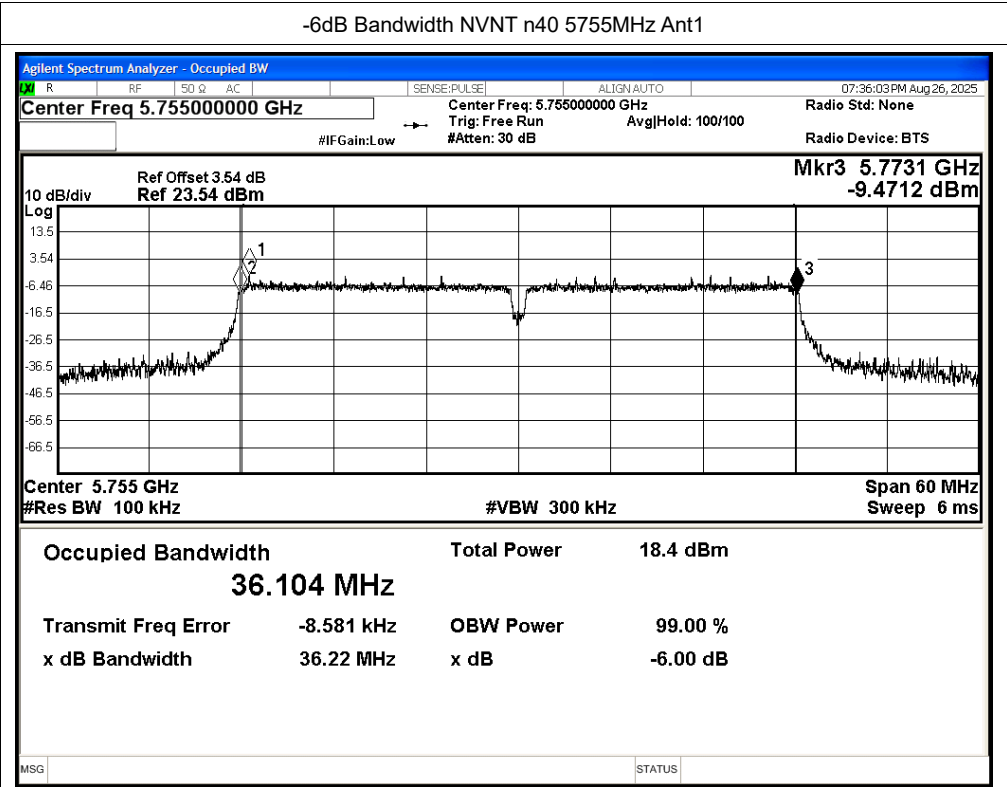
E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.339	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.338	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.33	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.561	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.431	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.431	≥ 0.5	Pass
NVNT	n40	5755	Ant1	36.217	≥ 0.5	Pass
NVNT	n40	5795	Ant1	36.169	≥ 0.5	Pass









E.2 Maximum Conducted Output Power

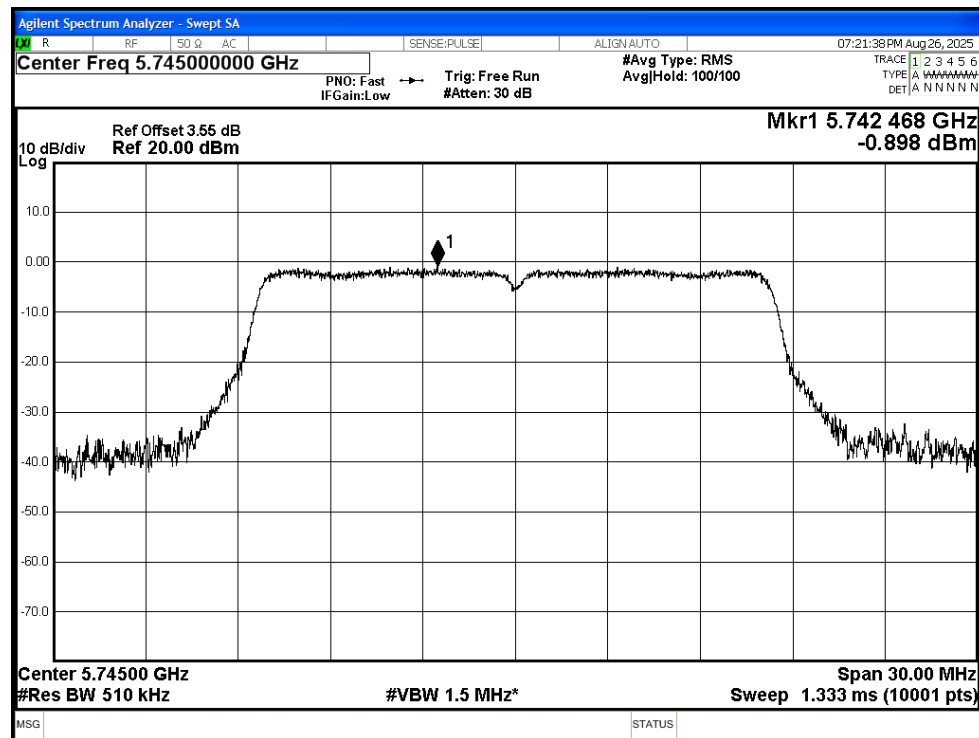
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.48	0.24	12.72	30	Pass
NVNT	a	5785	Ant1	11.73	0.24	11.97	30	Pass
NVNT	a	5825	Ant1	11.85	0.24	12.09	30	Pass
NVNT	n20	5745	Ant1	12.09	0.12	12.21	30	Pass
NVNT	n20	5785	Ant1	11.68	0.12	11.8	30	Pass
NVNT	n20	5825	Ant1	11.85	0.12	11.97	30	Pass
NVNT	n40	5755	Ant1	11.94	0.24	12.18	30	Pass
NVNT	n40	5795	Ant1	11.12	0.23	11.35	30	Pass

E.3 Maximum Power Spectral Density Level

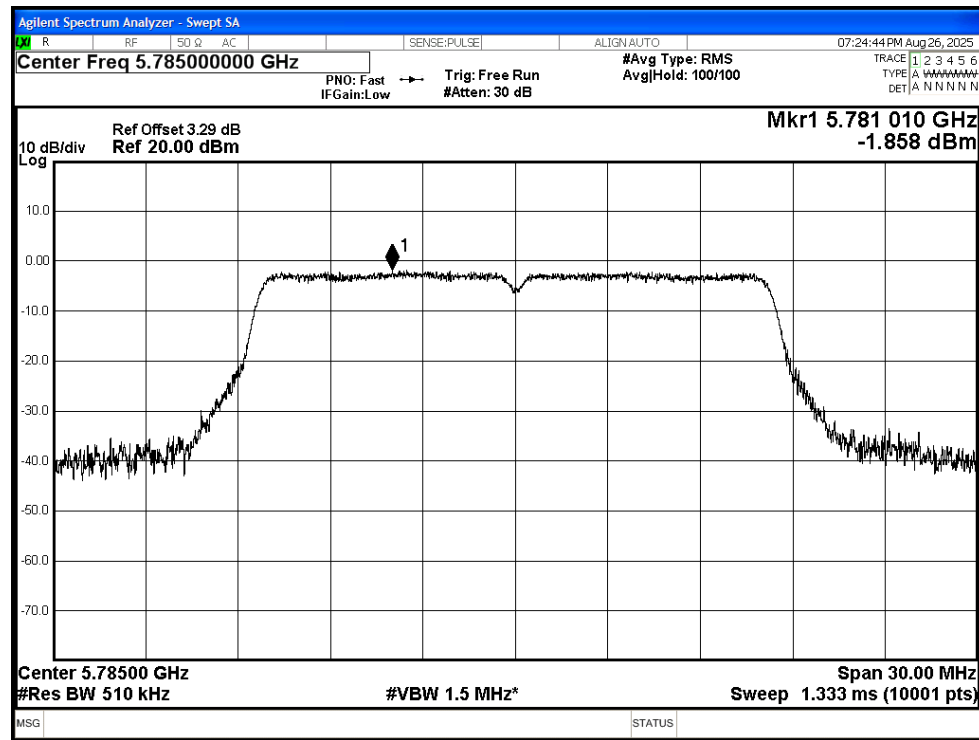
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-0.9	0.24	-0.66	30	Pass
NVNT	a	5785	Ant1	-1.86	0.24	-1.62	30	Pass
NVNT	a	5825	Ant1	-1.86	0.24	-1.62	30	Pass
NVNT	n20	5745	Ant1	-1.58	0.12	-1.46	30	Pass
NVNT	n20	5785	Ant1	-1.98	0.12	-1.86	30	Pass
NVNT	n20	5825	Ant1	-2.02	0.12	-1.9	30	Pass
NVNT	n40	5755	Ant1	-4.92	0.24	-4.68	30	Pass
NVNT	n40	5795	Ant1	-5.82	0.23	-5.59	30	Pass

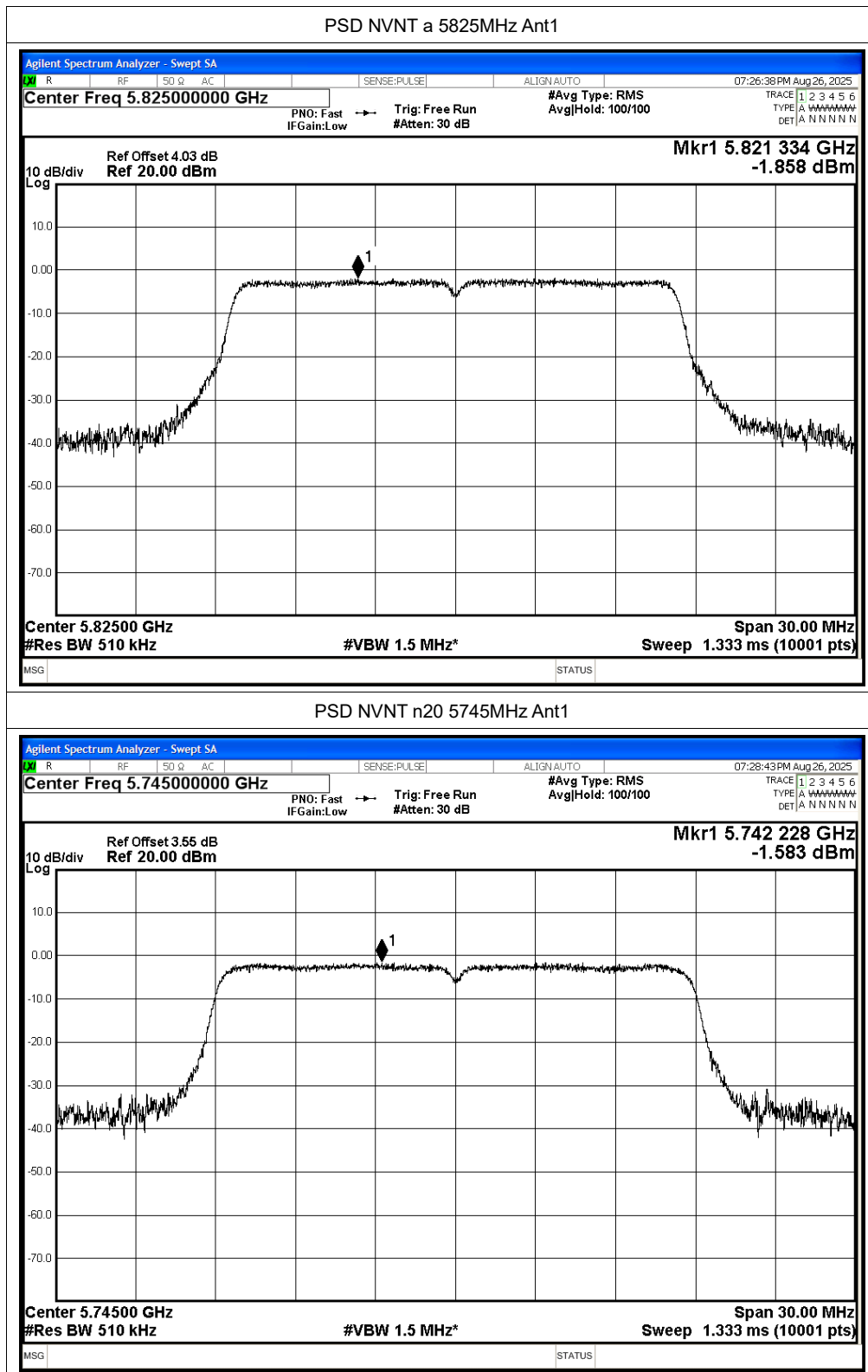
Test Graphs

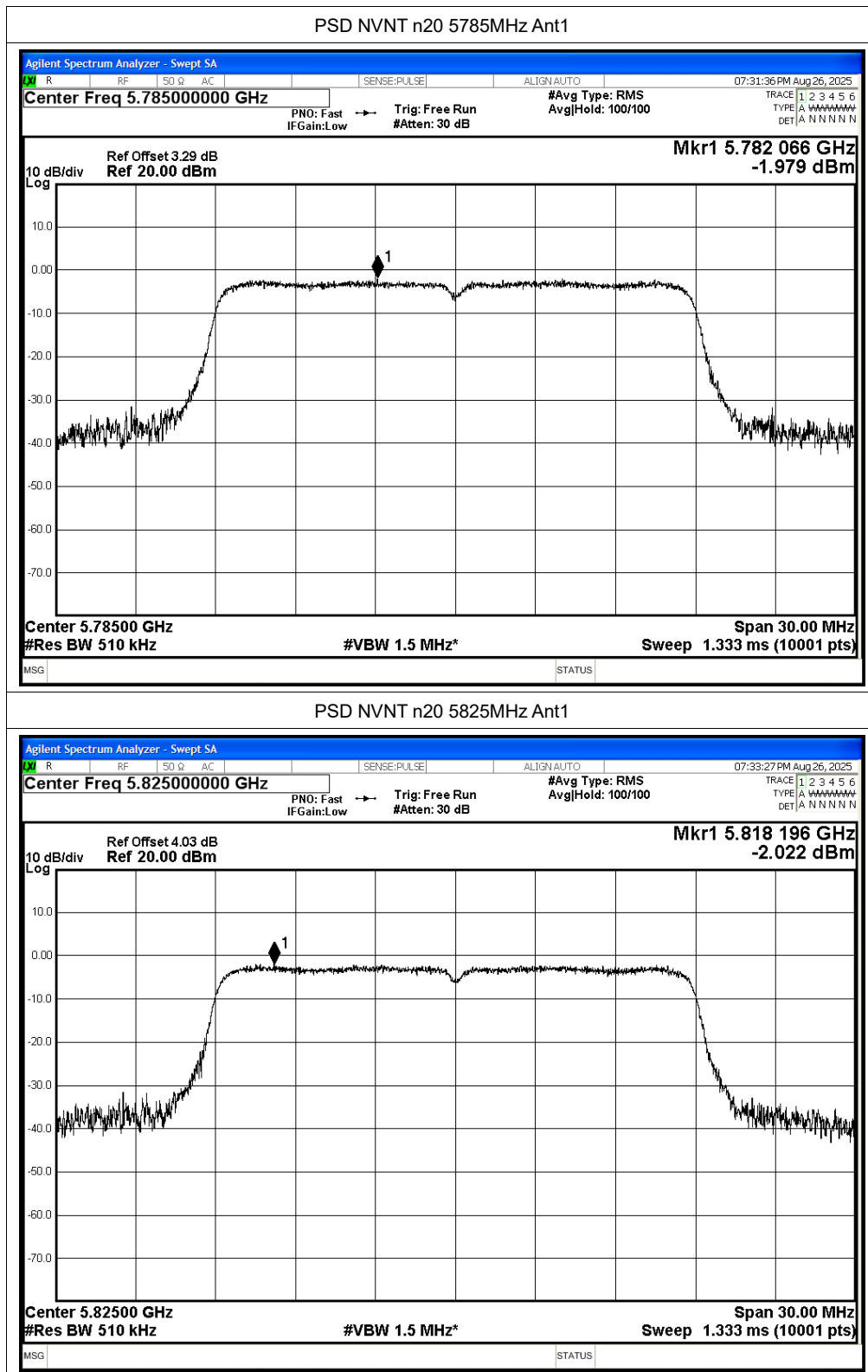
PSD NVNT a 5745MHz Ant1

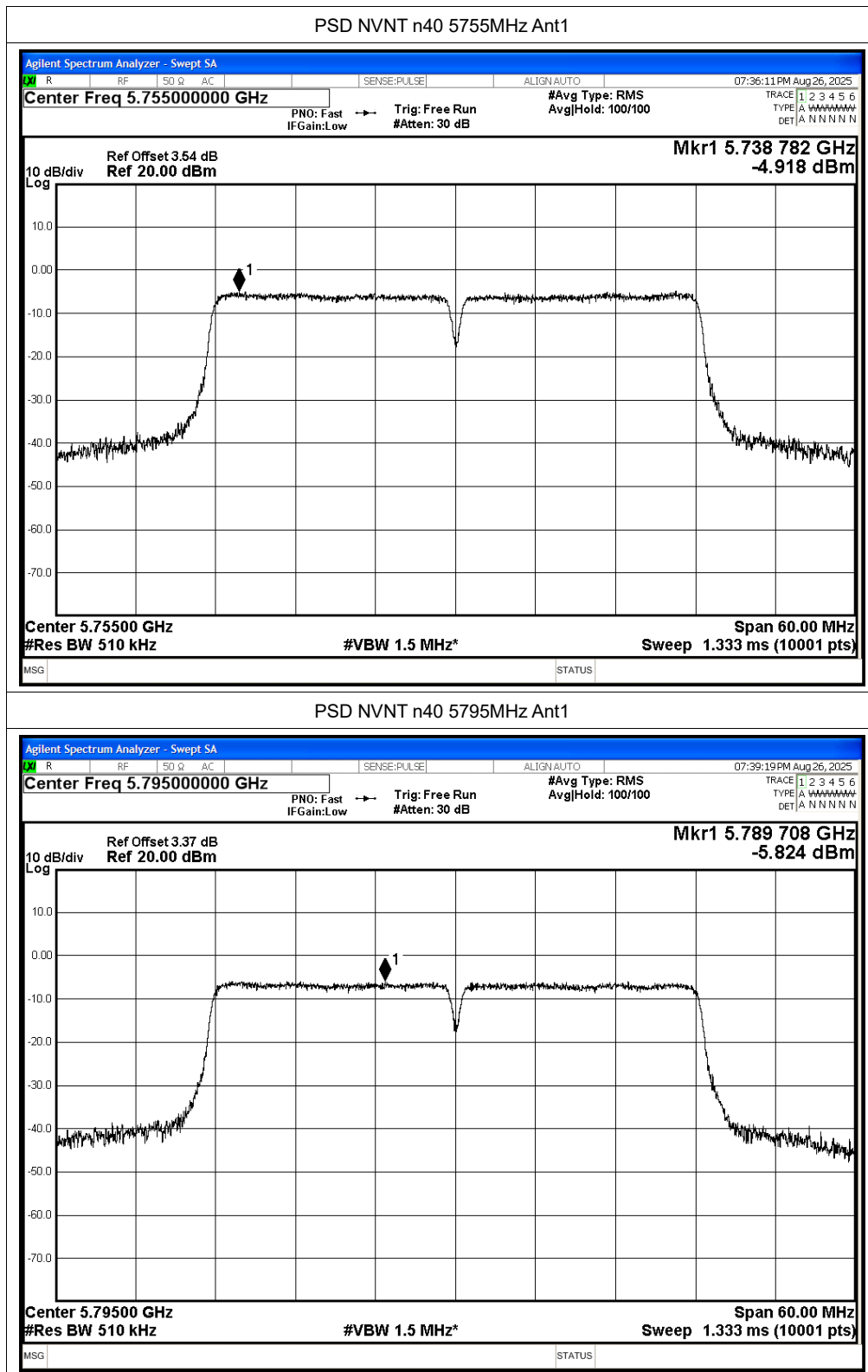


PSD NVNT a 5785MHz Ant1









E.4 Restrict Band

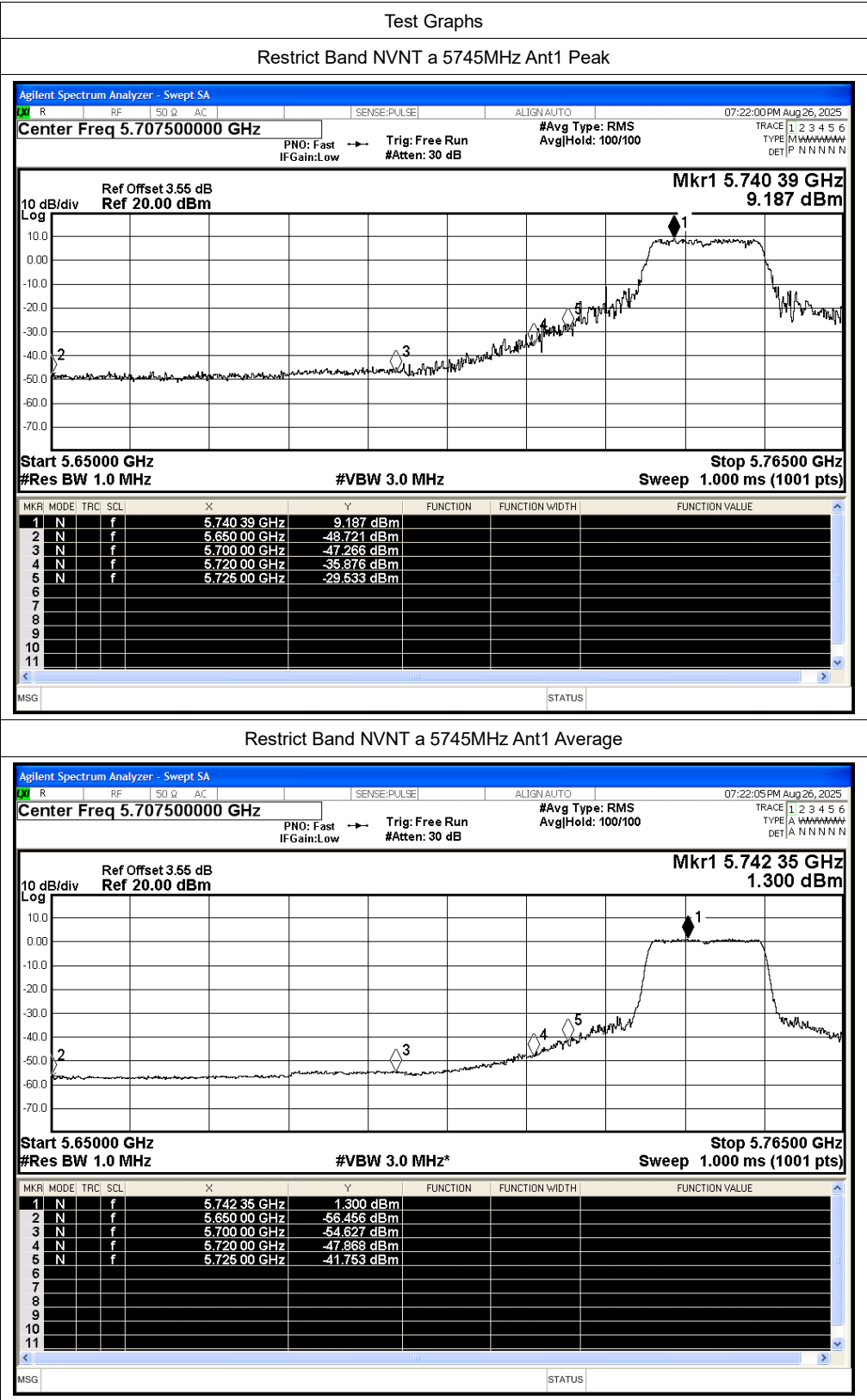
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-48.72	2.62	-	-46.10	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-56.46	2.62	0.24	-53.60	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-47.27	2.62	-	-44.65	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-54.63	2.62	0.24	-51.77	Average	10	Pass
NVNT	a	5745	Ant1	5720	-35.88	2.62	-	-33.26	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-47.87	2.62	0.24	-45.01	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-29.53	2.62	-	-26.91	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-41.75	2.62	0.24	-38.89	Average	27	Pass
NVNT	a	5825	Ant1	5850	-35.25	2.62	-	-32.63	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-48.24	2.62	0.24	-45.38	Average	27	Pass
NVNT	a	5825	Ant1	5855	-39.43	2.62	-	-36.81	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-52.87	2.62	0.24	-50.01	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-47.02	2.62	-	-44.40	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-55.33	2.62	0.24	-52.47	Average	10	Pass
NVNT	a	5825	Ant1	5925	-47.02	2.62	-	-44.40	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-55.9	2.62	0.24	-53.04	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-47	2.62	-	-44.38	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.29	2.62	0.12	-54.55	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-47.63	2.62	-	-45.01	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-54.19	2.62	0.12	-51.45	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-30.19	2.62	-	-27.57	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-45.59	2.62	0.12	-42.85	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-22.59	2.62	-	-19.97	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-39.74	2.62	0.12	-37.00	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-31.73	2.62	-	-29.11	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-46.28	2.62	0.12	-43.54	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-34.71	2.62	-	-32.09	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-48.72	2.62	0.12	-45.98	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-47.78	2.62	-	-45.16	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-54.89	2.62	0.12	-52.15	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.33	2.62	-	-46.71	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-55.43	2.62	0.12	-52.69	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-48.63	2.62	-	-46.01	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-56.52	2.62	0.24	-53.66	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-45.87	2.62	-	-43.25	Peak	10	Pass
NVNT	n40	5755	Ant1	5700	-53.21	2.62	0.24	-50.35	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-31.96	2.62	-	-29.34	Peak	15.6	Pass

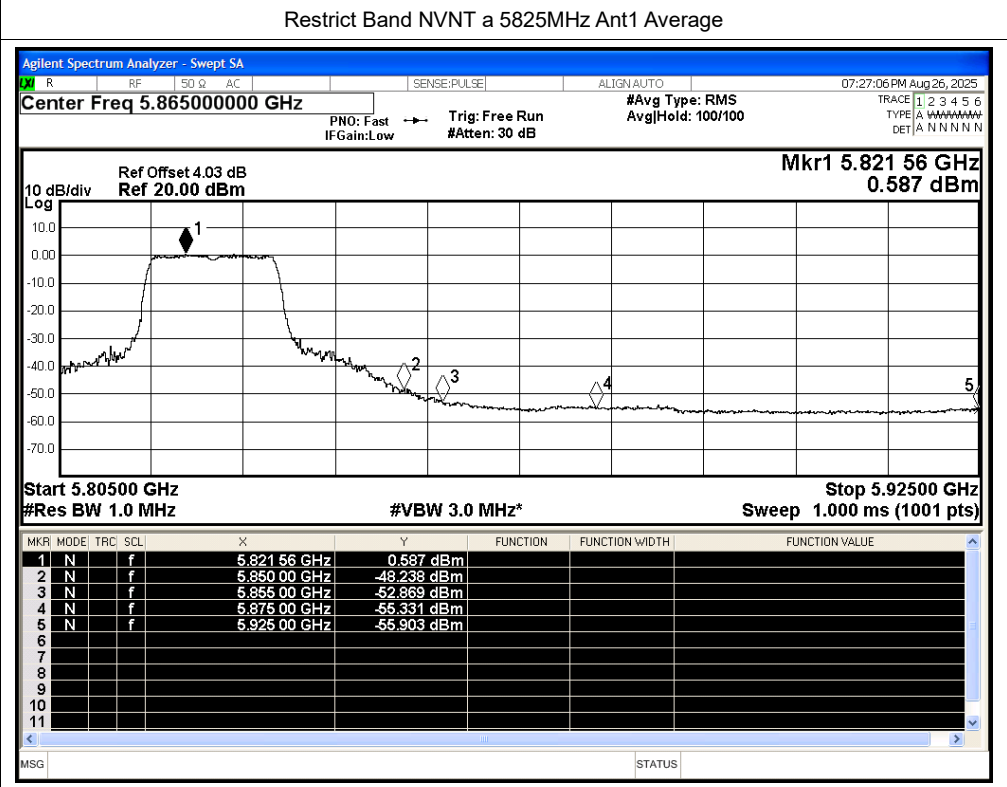
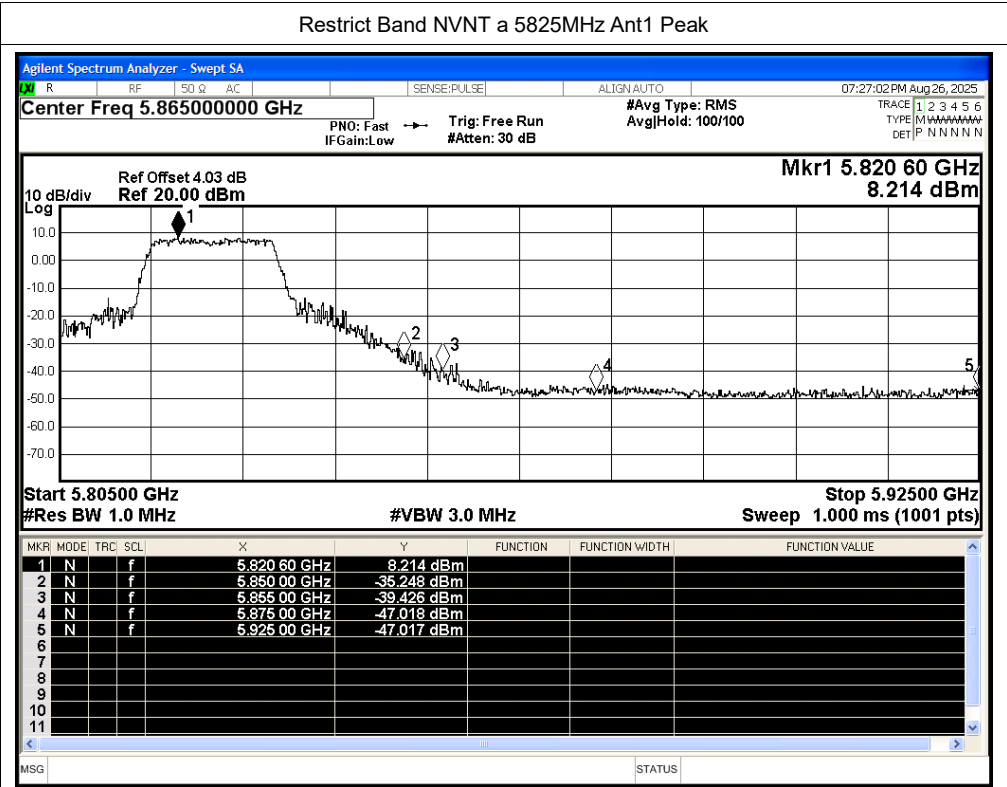
Guangzhou LCS Compliance Testing Laboratory Ltd.

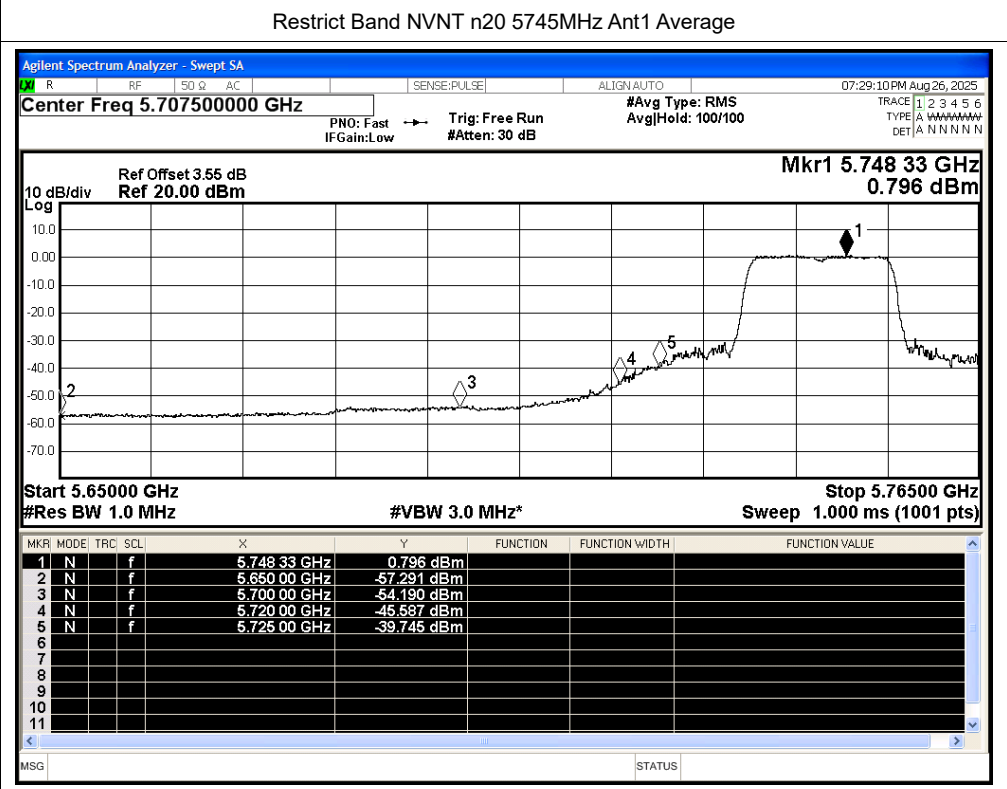
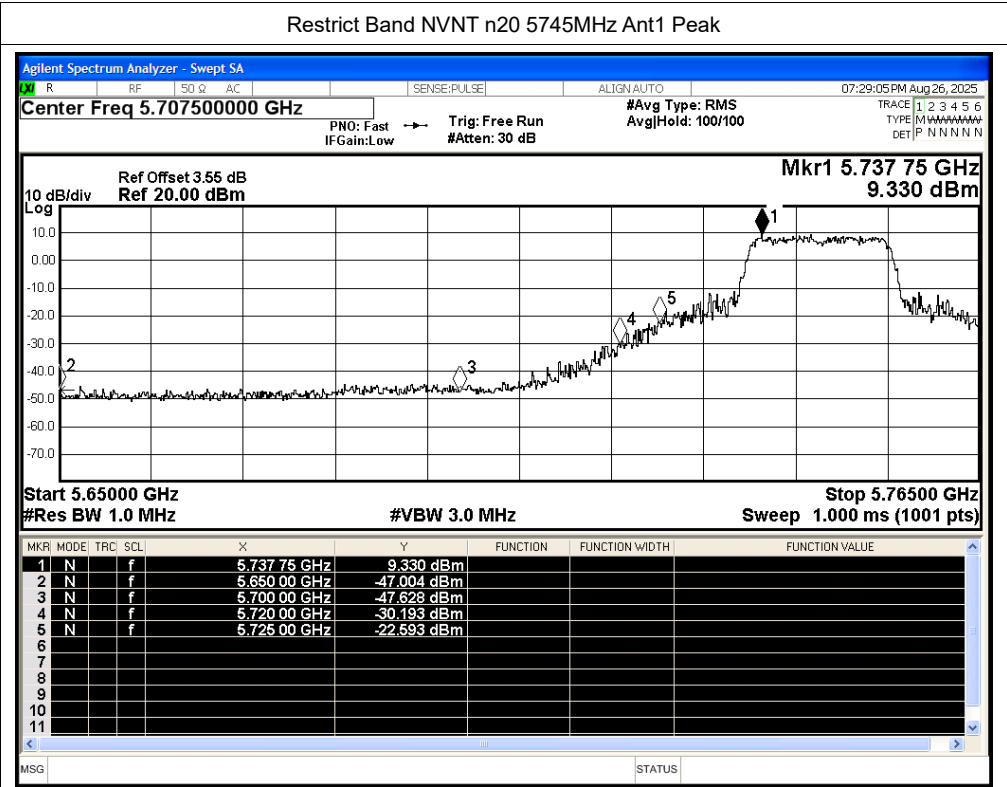
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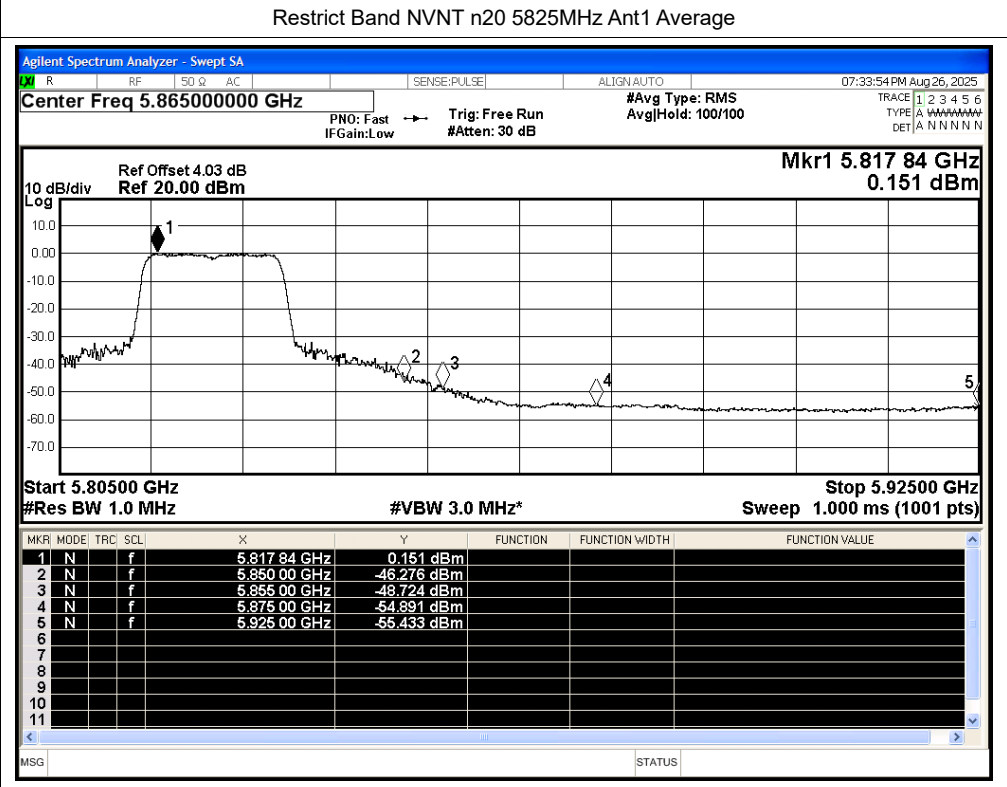
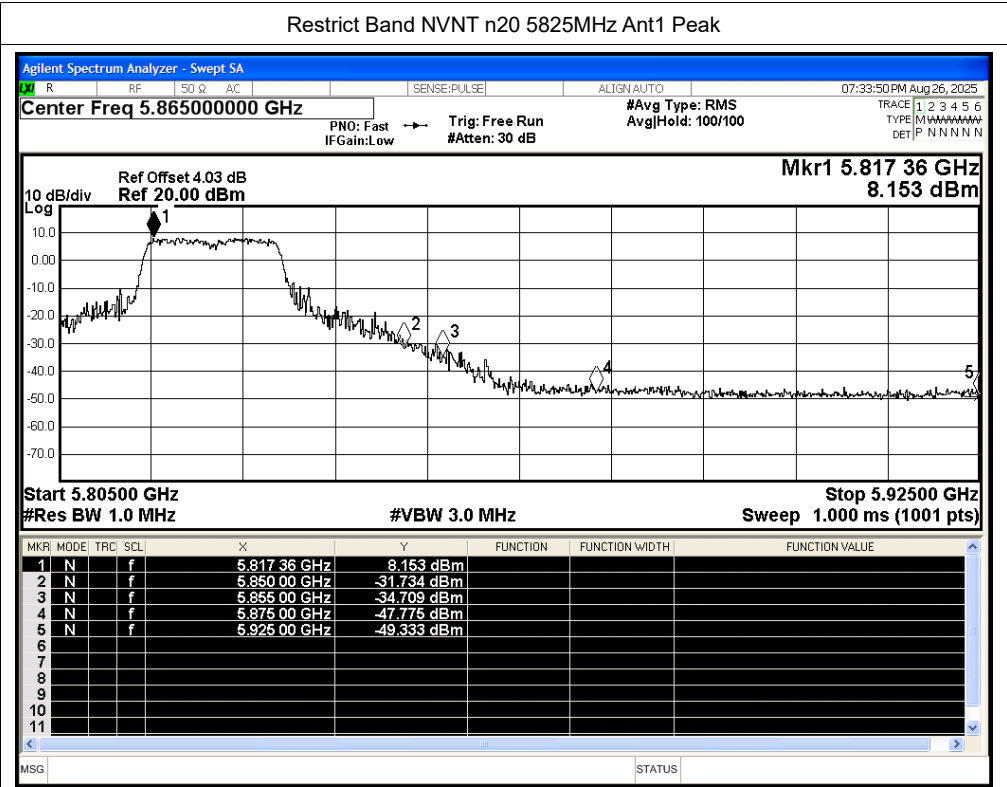
Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

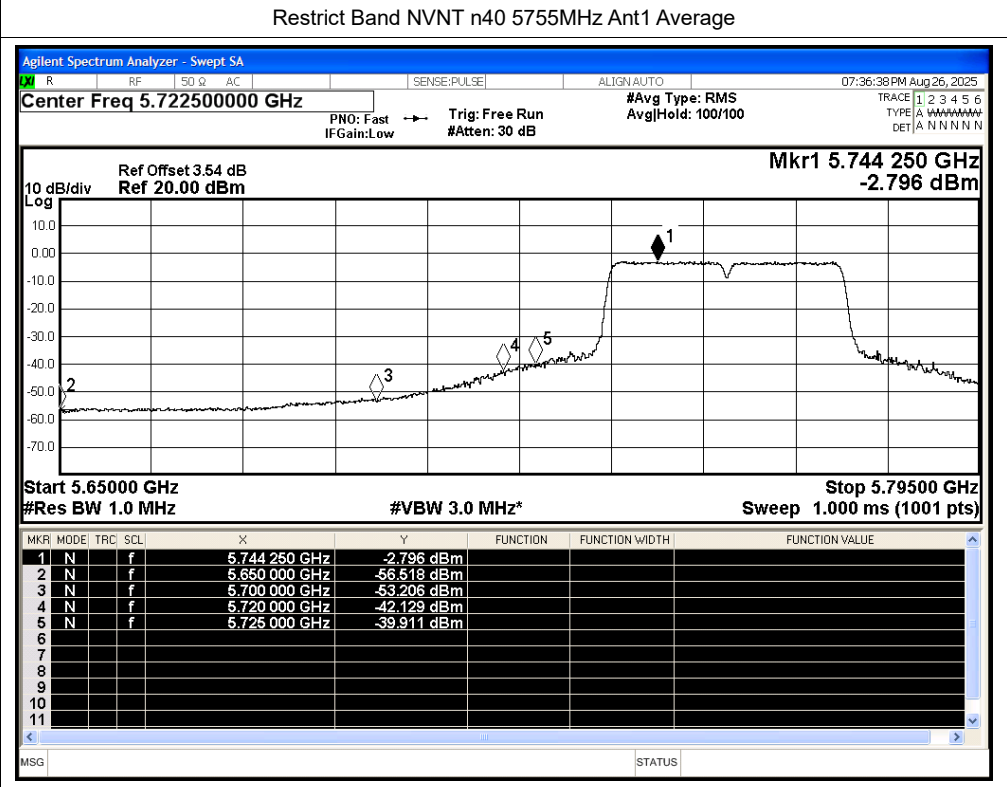
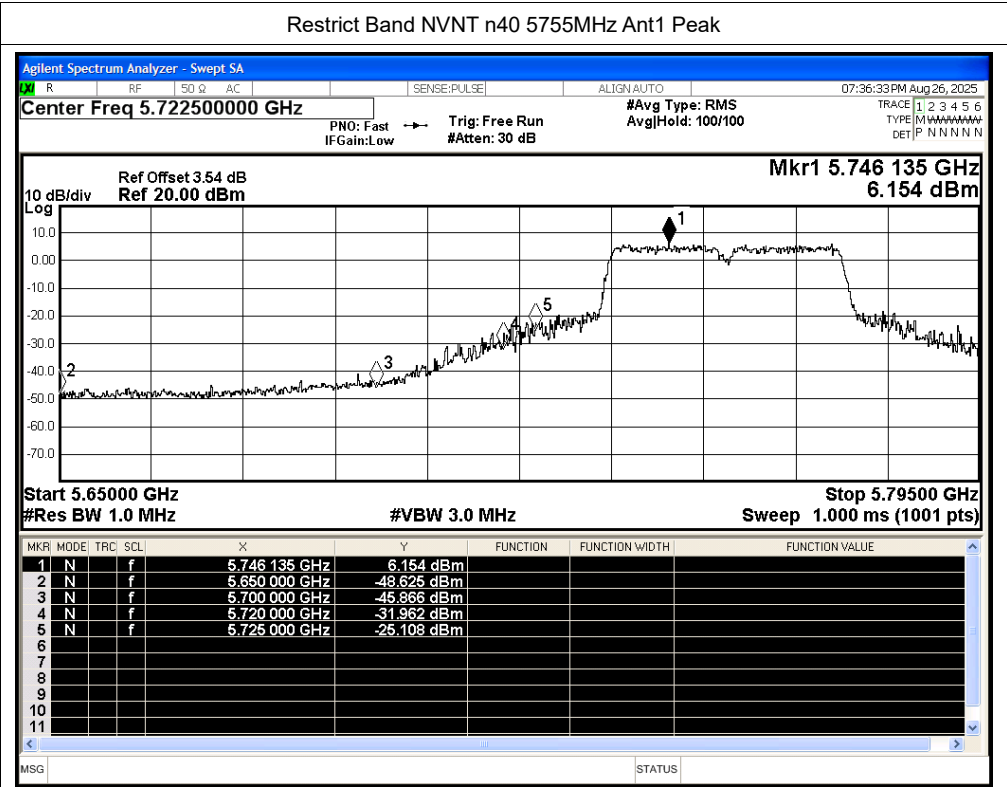
NVNT	n40	5755	Ant1	5720	-42.13	2.62	0.24	-39.27	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-25.11	2.62	-	-22.49	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-39.91	2.62	0.24	-37.05	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-45.27	2.62	-	-42.65	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-54.91	2.62	0.23	-52.06	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-46.82	2.62	-	-44.20	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-55.6	2.62	0.23	-52.75	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-49.07	2.62	-	-46.45	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-57.39	2.62	0.23	-54.54	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-49.02	2.62	-	-46.40	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-57.34	2.62	0.23	-54.49	Average	-27	Pass



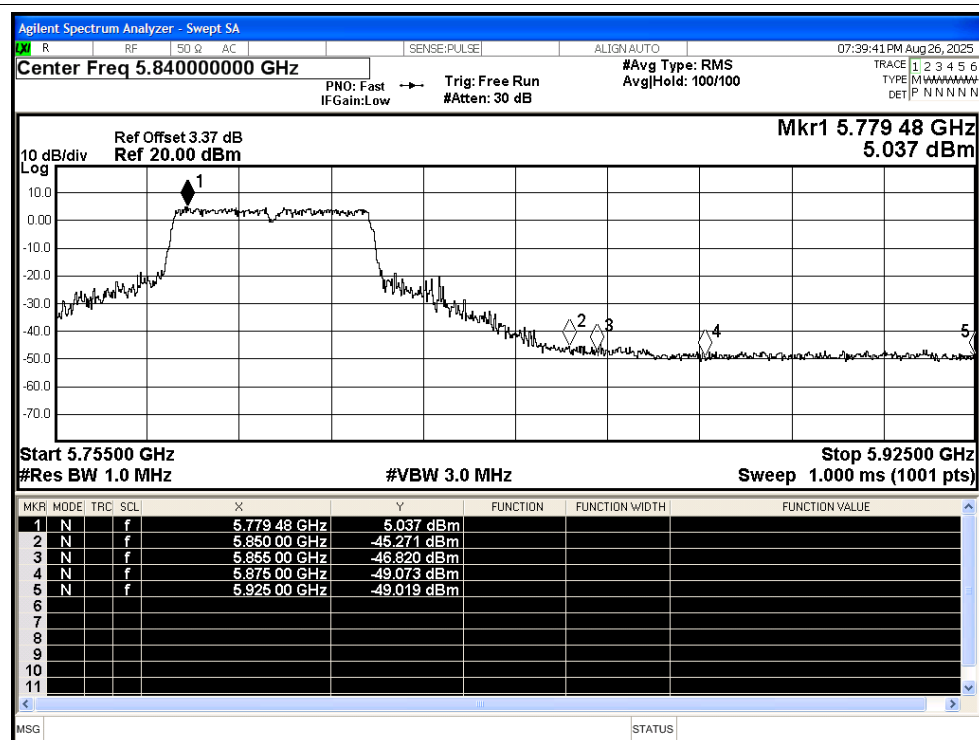




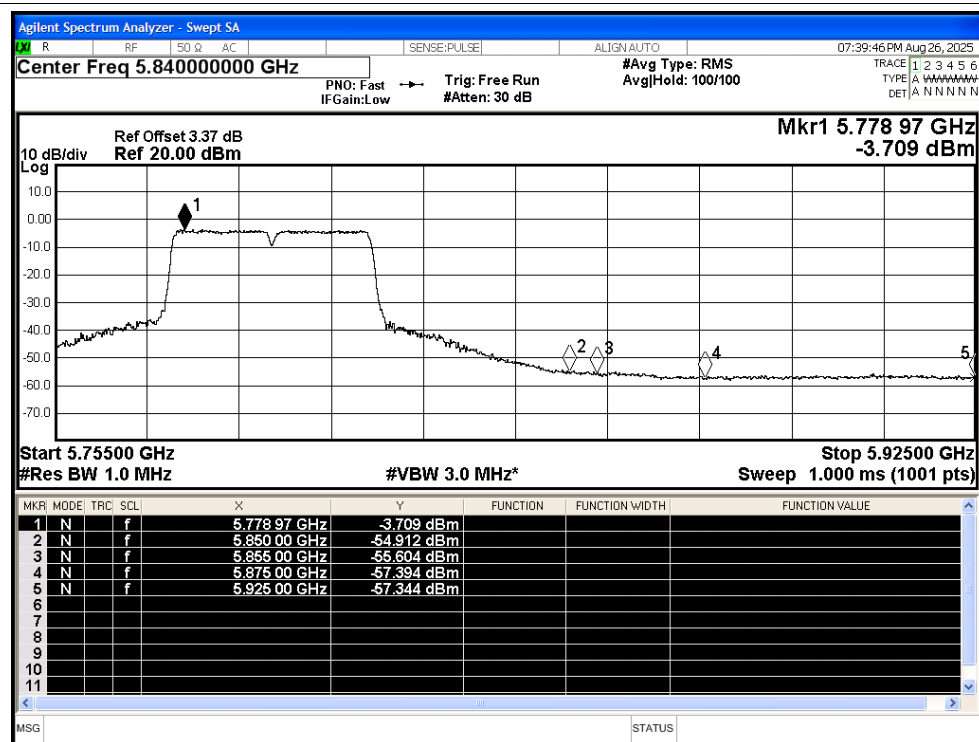




Restrict Band NVNT n40 5795MHz Ant1 Peak

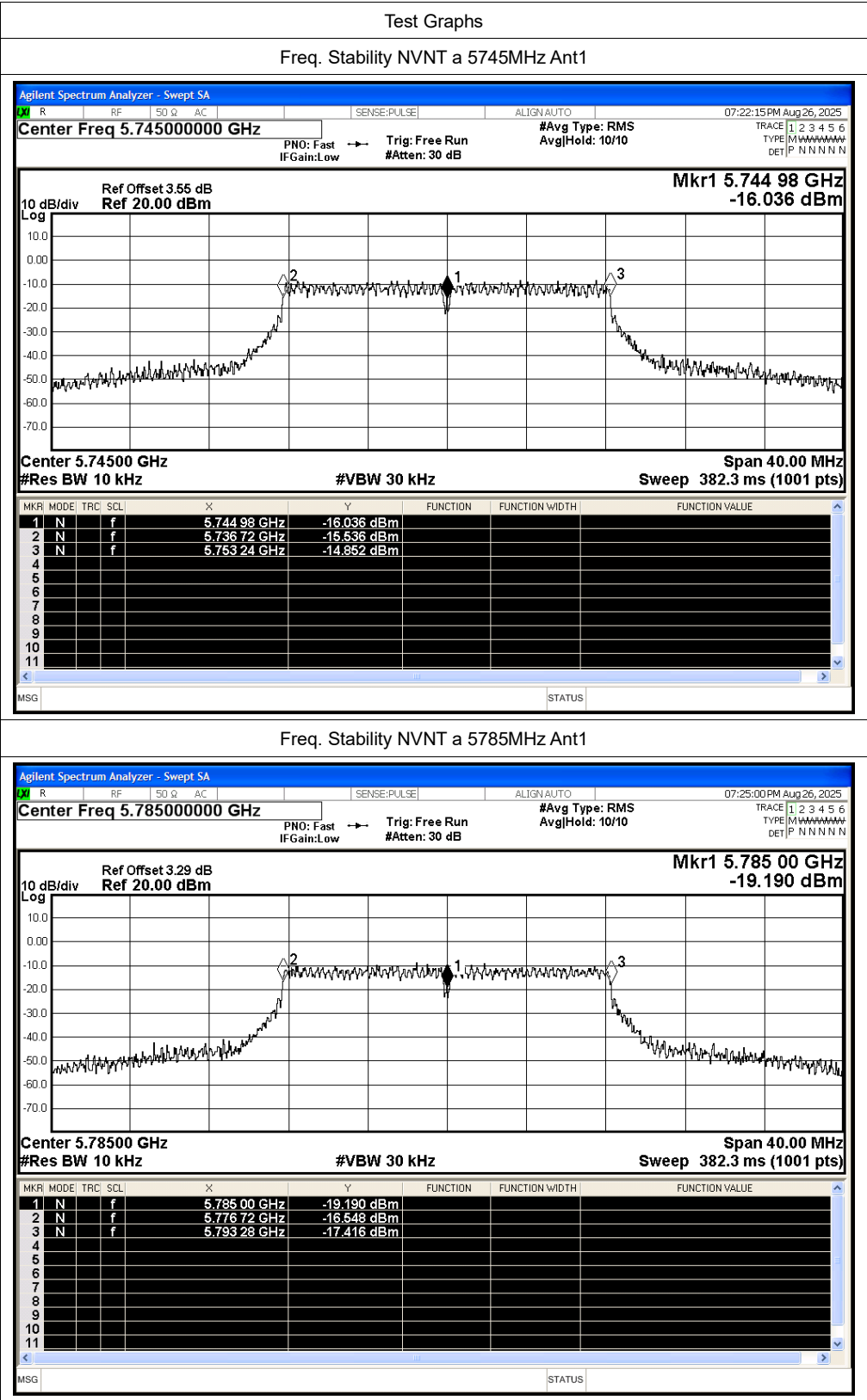


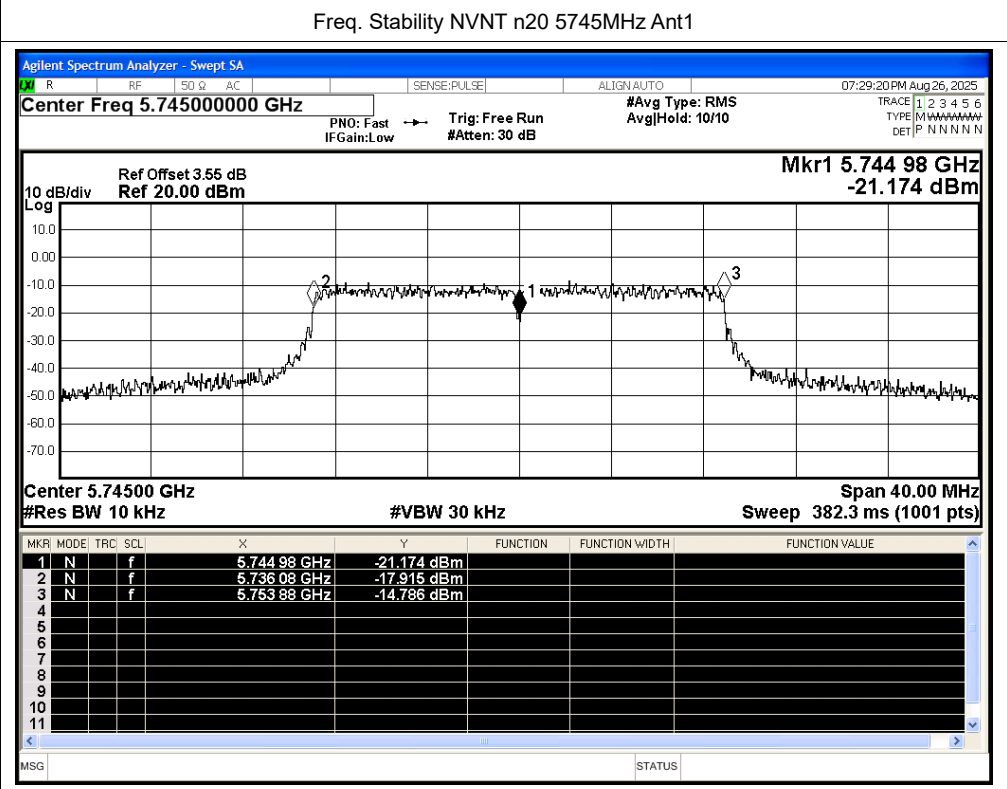
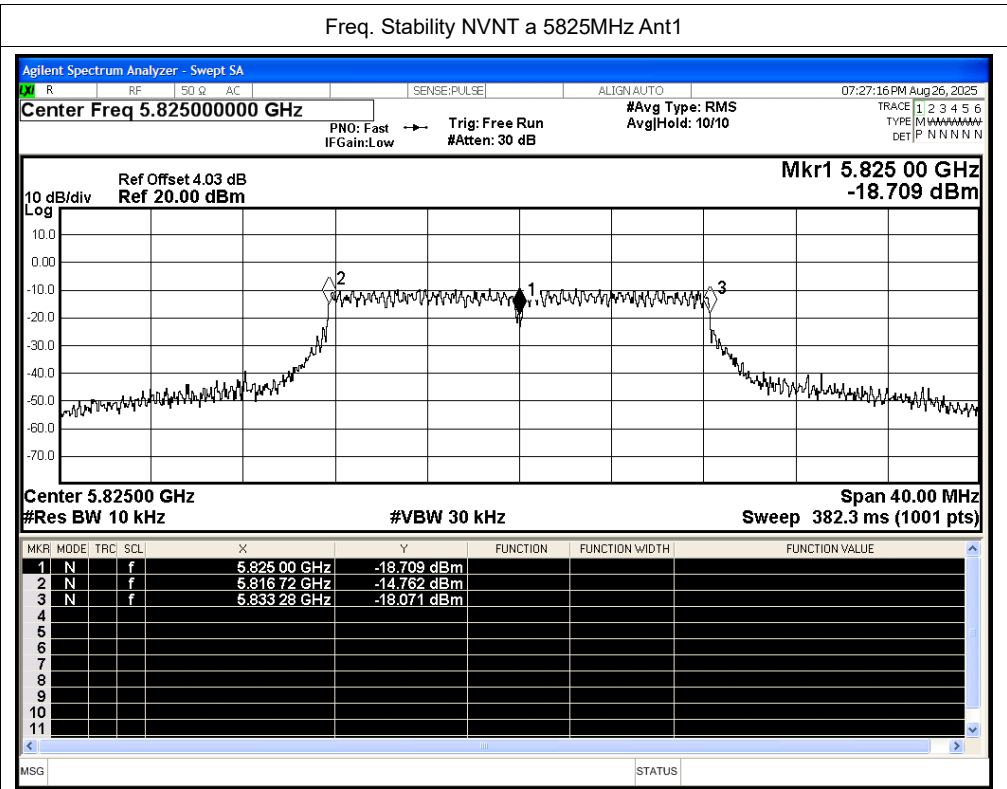
Restrict Band NVNT n40 5795MHz Ant1 Average



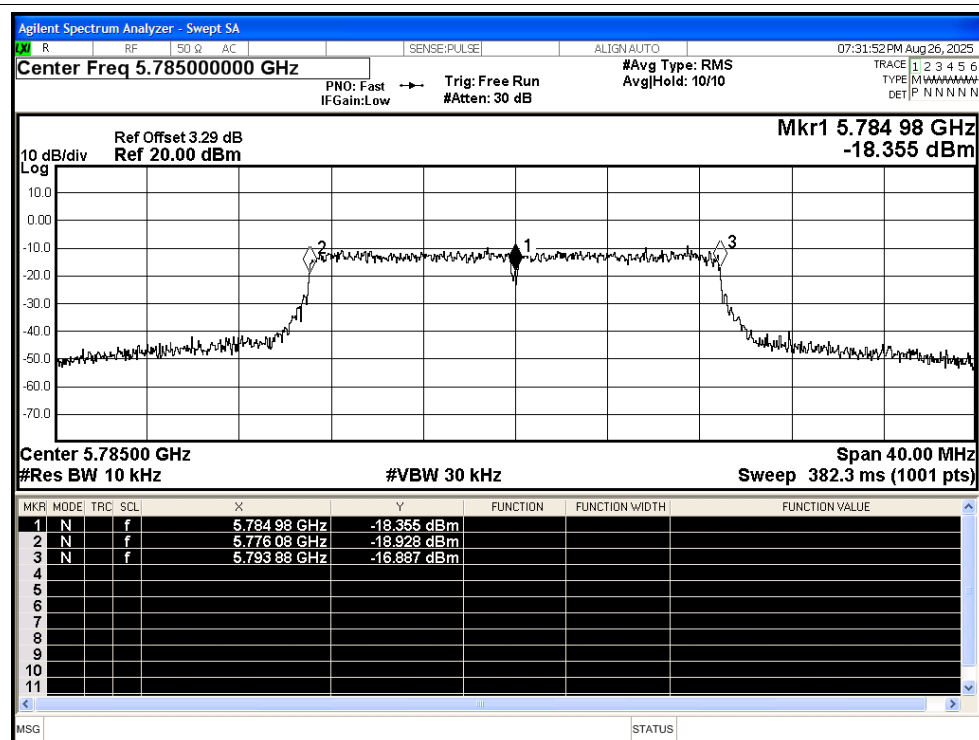
E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825	0	0	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NVNT	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NVNT	n40	5755	Ant1	5755	0	0	25	Pass
NVNT	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass

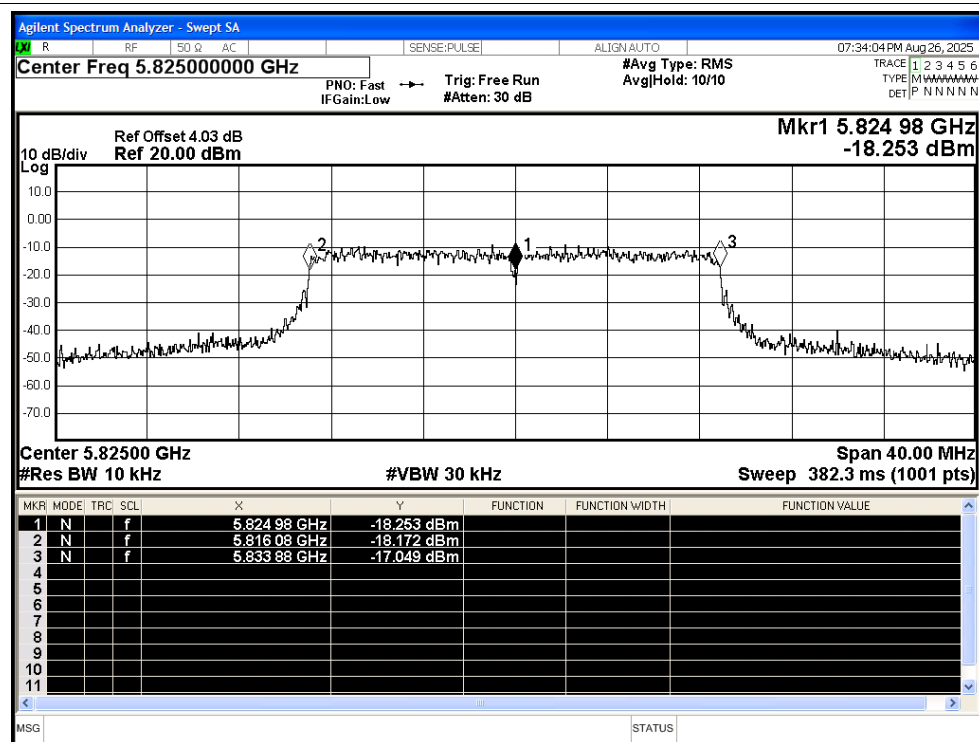


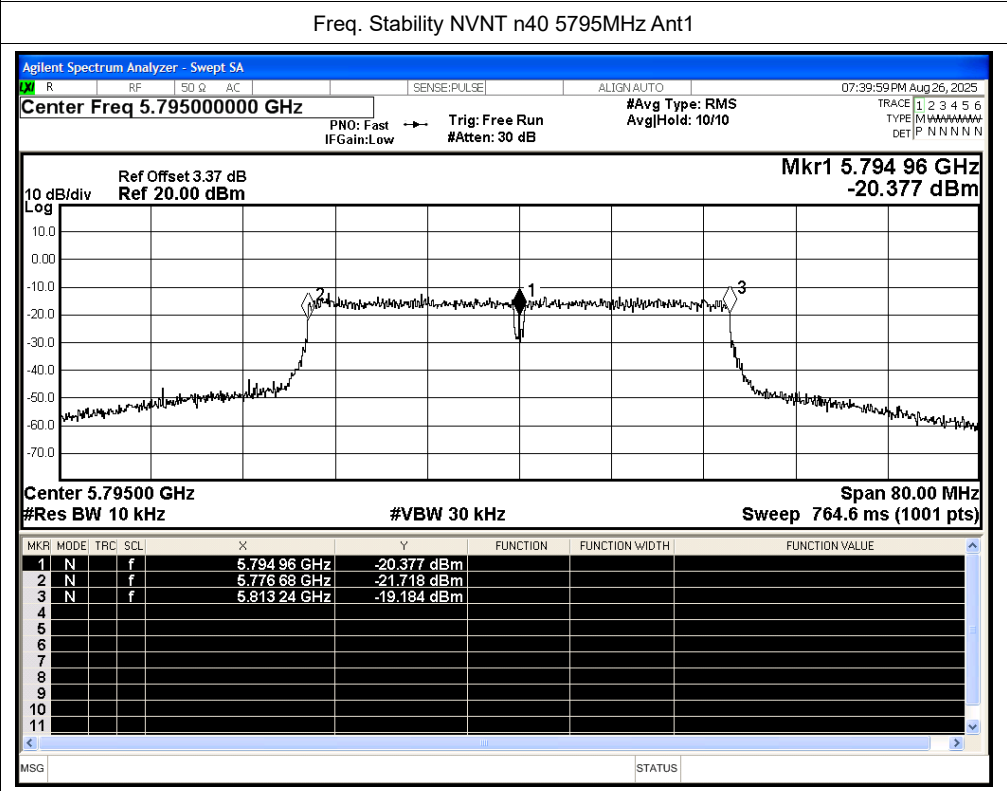
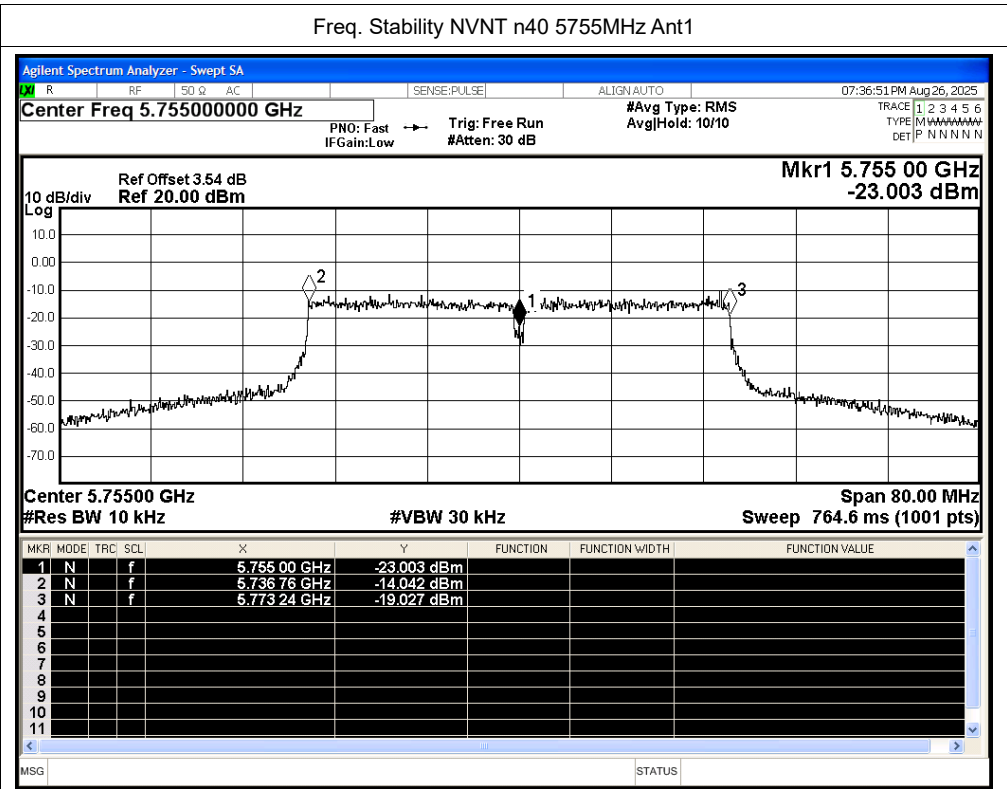


Freq. Stability NVNT n20 5785MHz Ant1



Freq. Stability NVNT n20 5825MHz Ant1





E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	94.56	0.24	0.91
NVNT	a	5785	Ant1	94.56	0.24	0.91
NVNT	a	5825	Ant1	94.65	0.24	0.91
NVNT	n20	5745	Ant1	97.29	0.12	0.44
NVNT	n20	5785	Ant1	97.33	0.12	0.44
NVNT	n20	5825	Ant1	97.29	0.12	0.44
NVNT	n40	5755	Ant1	94.71	0.24	0.9
NVNT	n40	5795	Ant1	94.79	0.23	0.9

