

FCC Appendix RF Test Data for 5.8GWIFI

FCC ID : 2BNXK-P-LFPO1

Company: : Shenzhen Limpet Technology Co., Ltd.

EUT : Wali Smart Pet Feeder With AI Camera

Model Number : P-LFP01

Report No. : CTA25070500603

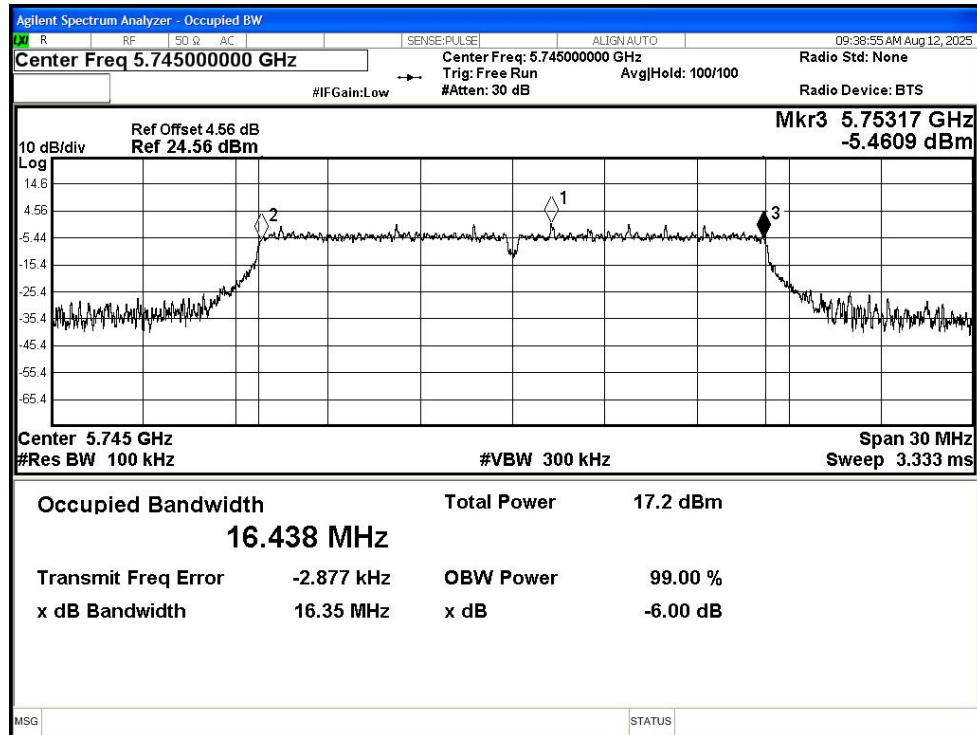
Reviewed By : Eric Wang

-6dB Bandwidth

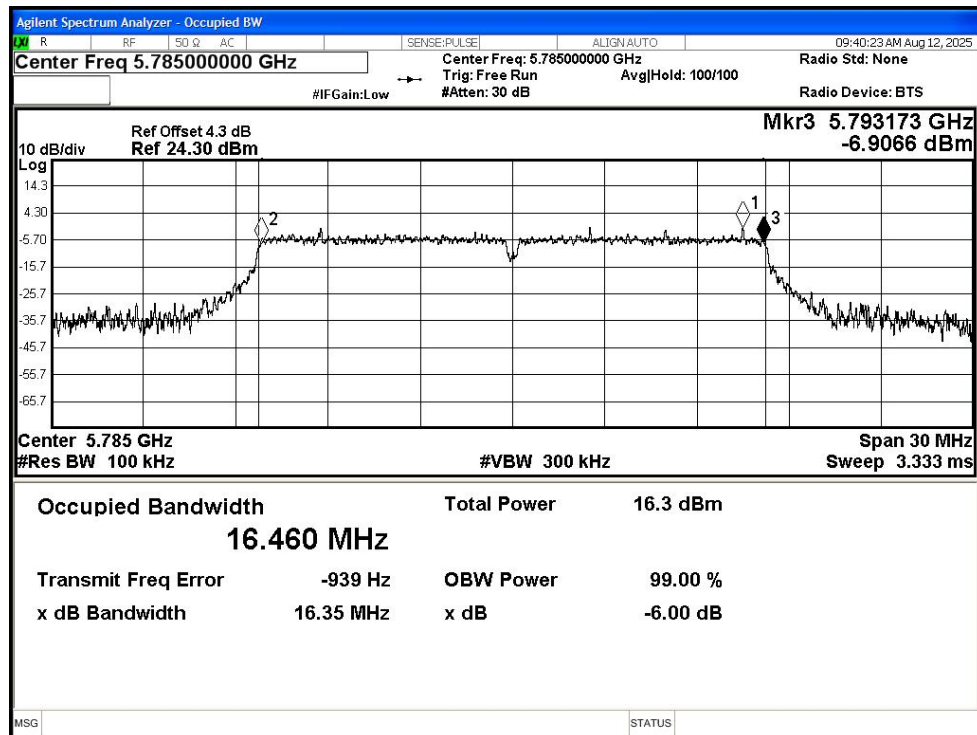
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.346	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.348	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.346	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.374	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.3	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.281	≥ 0.5	Pass

Test Graphs

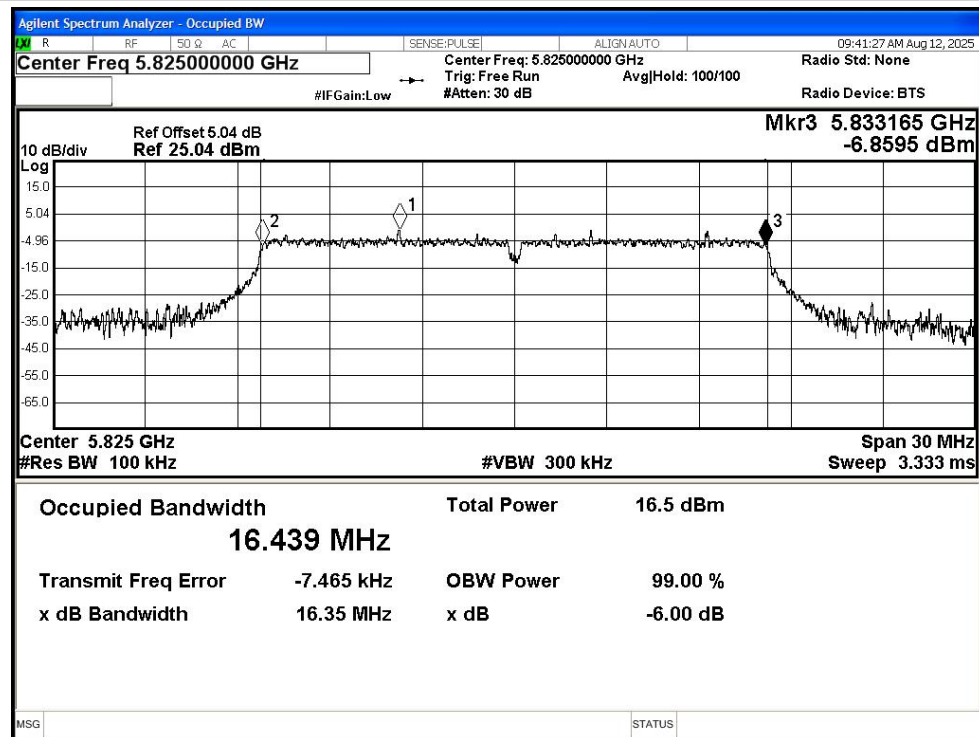
-6dB Bandwidth NVNT a 5745MHz Ant1



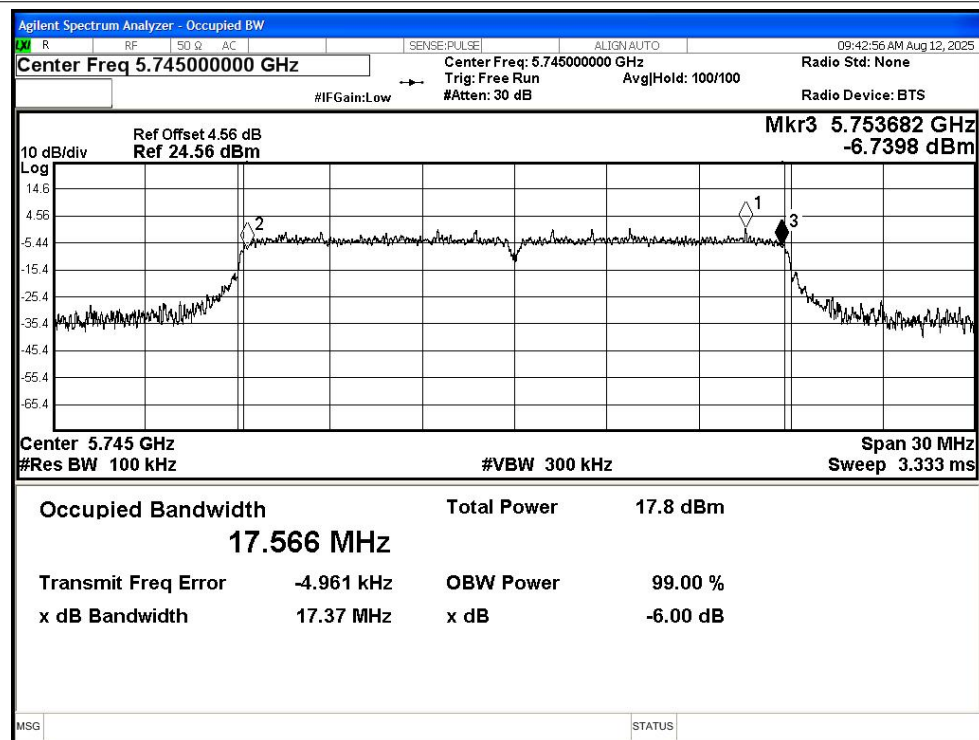
-6dB Bandwidth NVNT a 5785MHz Ant1



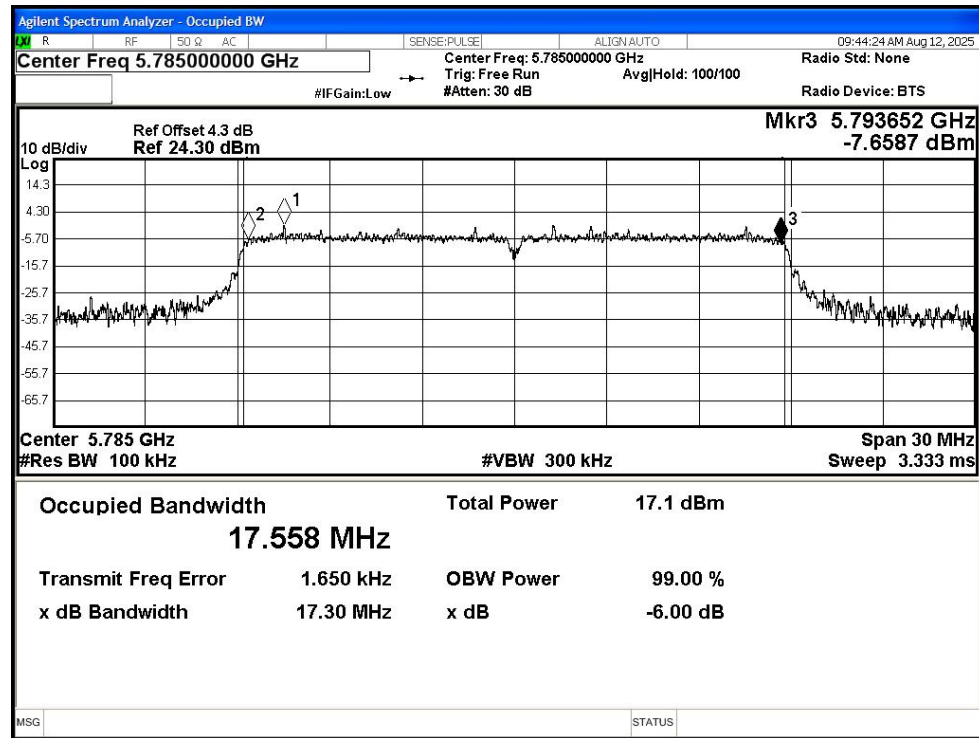
-6dB Bandwidth NVNT a 5825MHz Ant1



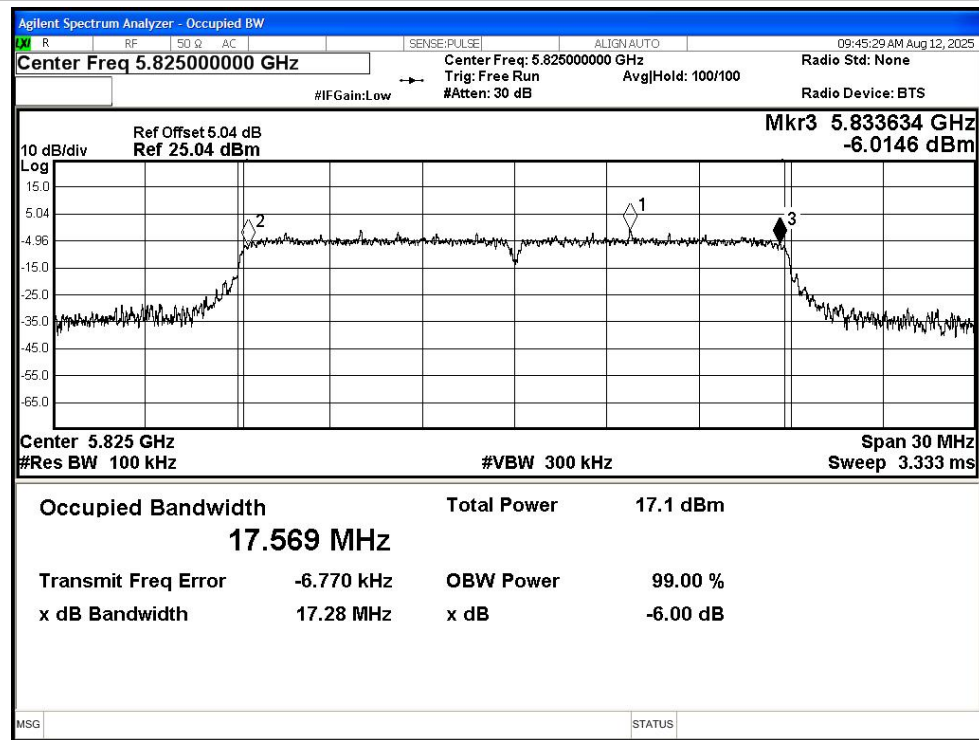
-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



Maximum Conducted Output Power

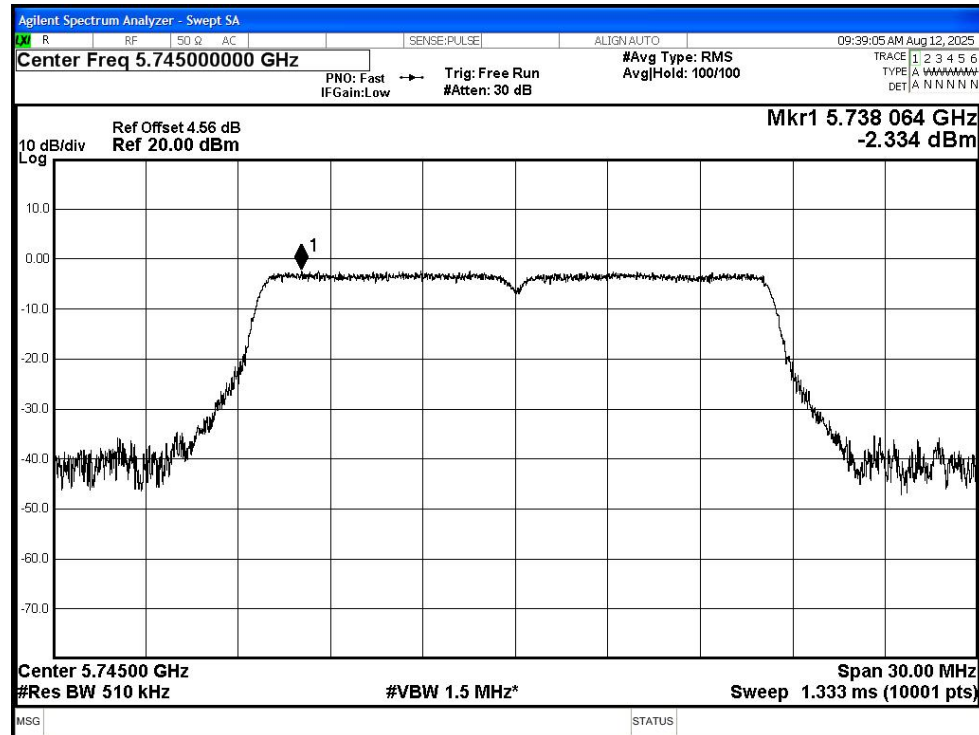
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.26	0.19	11.45	30	Pass
NVNT	a	5785	Ant1	10.44	0.19	10.63	30	Pass
NVNT	a	5825	Ant1	10.59	0.19	10.78	30	Pass
NVNT	n20	5745	Ant1	11.38	0.23	11.61	30	Pass
NVNT	n20	5785	Ant1	10.75	0.23	10.98	30	Pass
NVNT	n20	5825	Ant1	10.83	0.23	11.06	30	Pass

Maximum Power Spectral Density Level

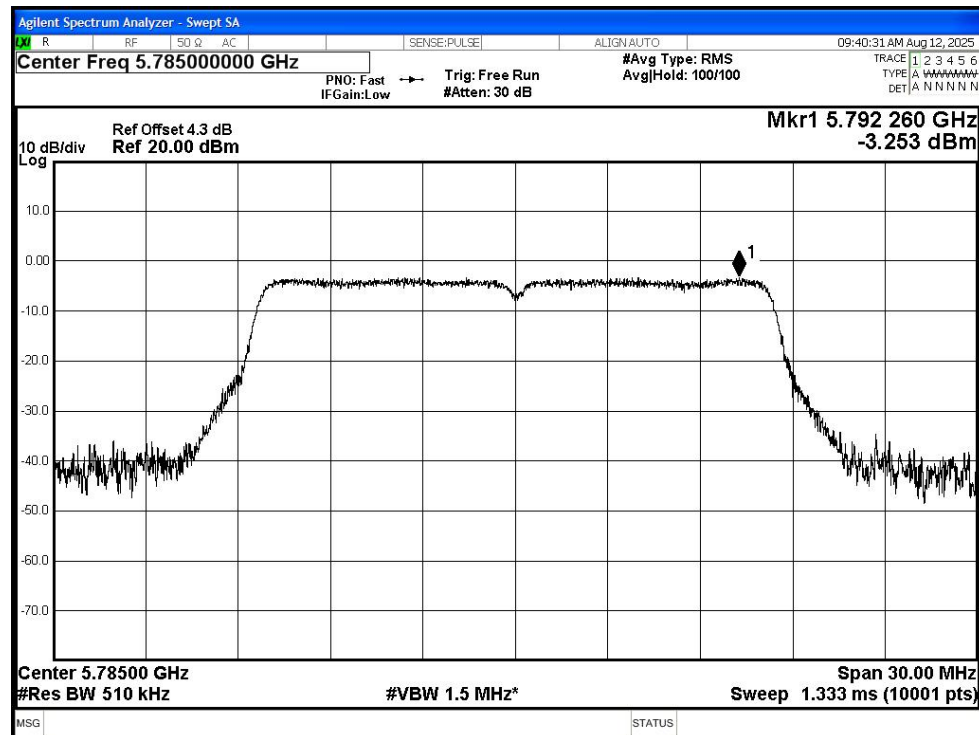
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-2.33	0.19	-2.14	30	Pass
NVNT	a	5785	Ant1	-3.25	0.19	-3.06	30	Pass
NVNT	a	5825	Ant1	-3.16	0.19	-2.97	30	Pass
NVNT	n20	5745	Ant1	-2.3	0.23	-2.07	30	Pass
NVNT	n20	5785	Ant1	-3.23	0.23	-3	30	Pass
NVNT	n20	5825	Ant1	-3.11	0.23	-2.88	30	Pass

Test Graphs

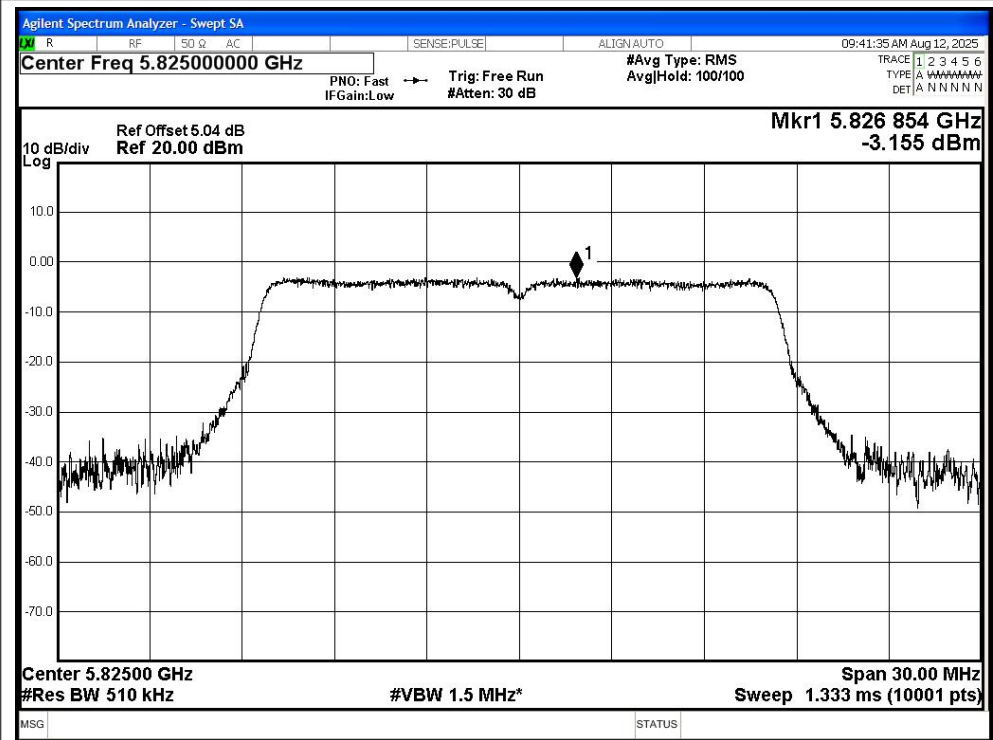
PSD NVNT a 5745MHz Ant1



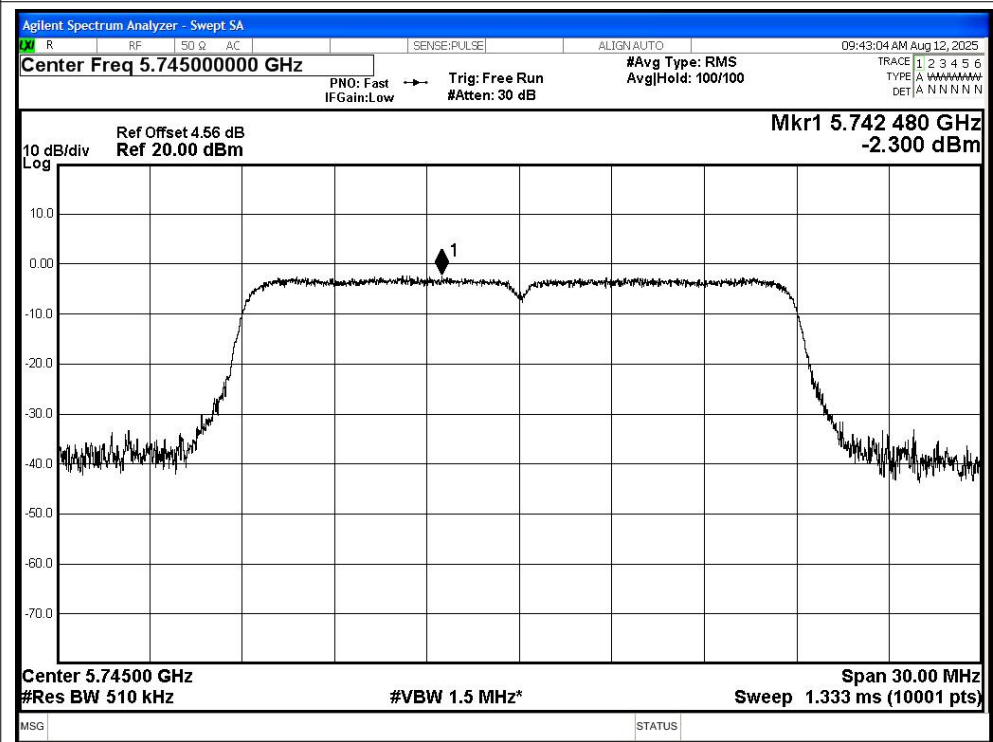
PSD NVNT a 5785MHz Ant1



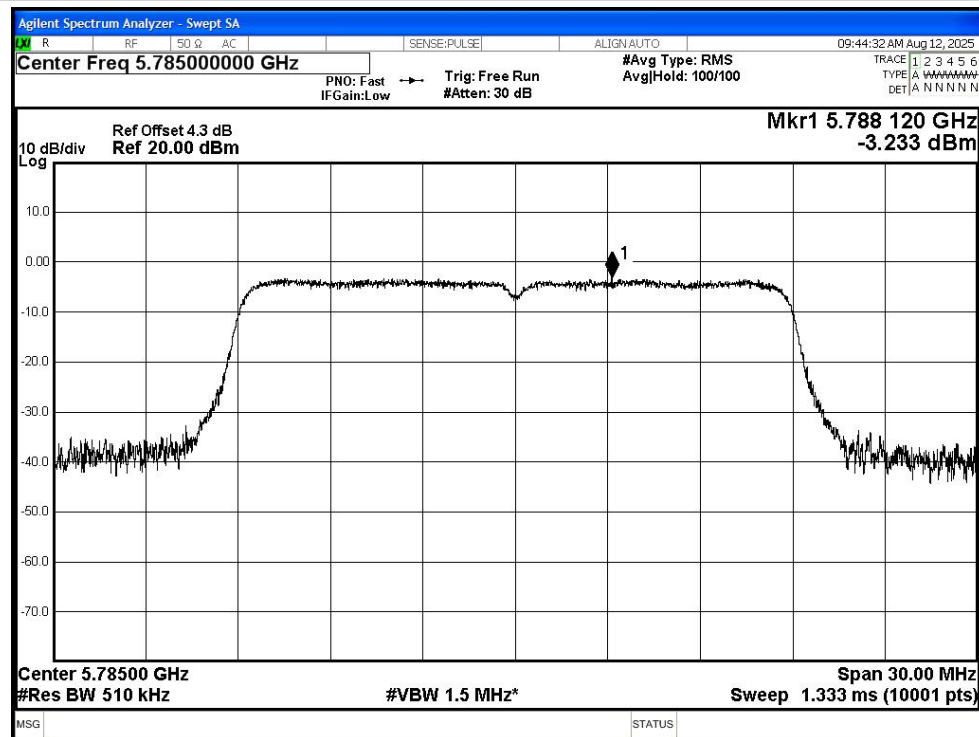
PSD NVNT a 5825MHz Ant1



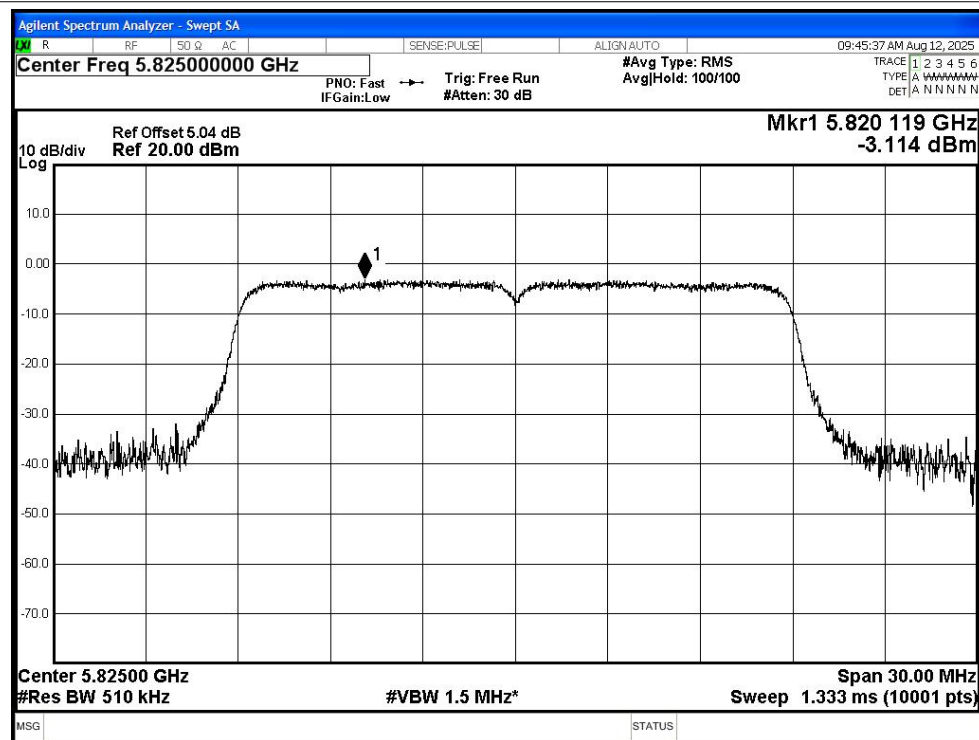
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1

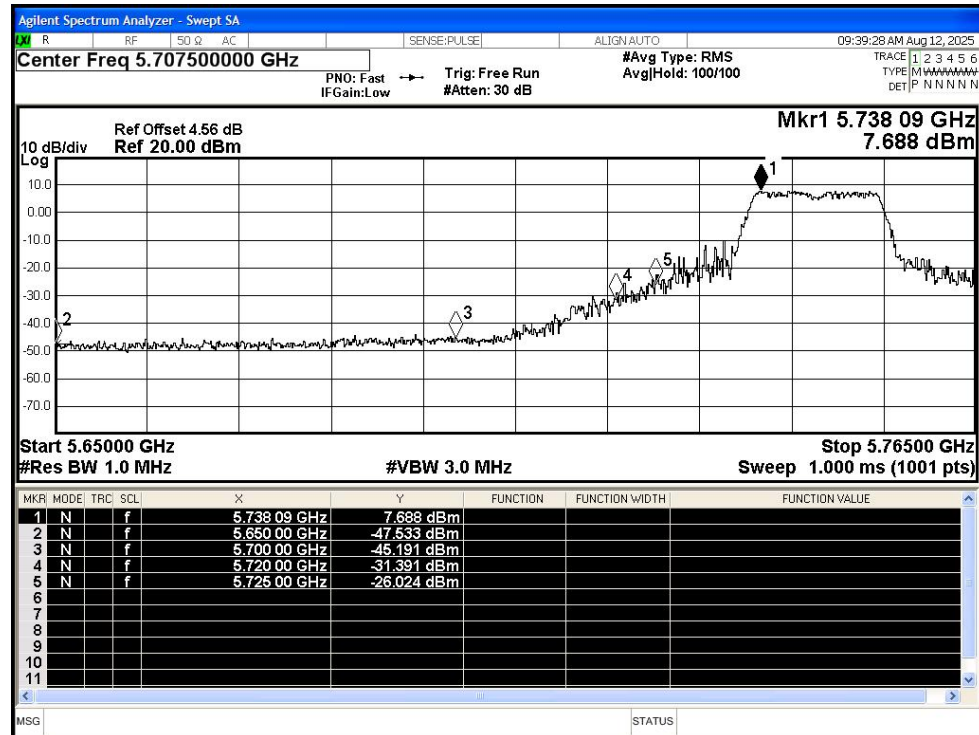


Restrict Band

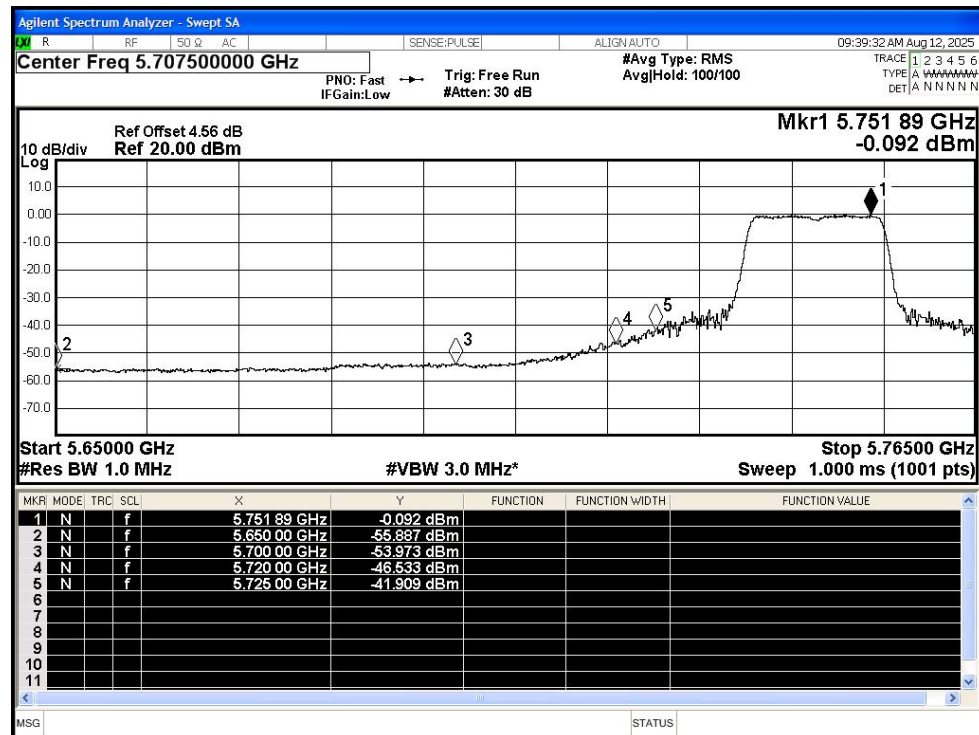
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-47.53	5.26	-	-42.27	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-55.89	5.26	0.19	-50.44	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-45.19	5.26	-	-39.93	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-53.97	5.26	0.19	-48.52	Average	10	Pass
NVNT	a	5745	Ant1	5720	-31.39	5.26	-	-26.13	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-46.53	5.26	0.19	-41.08	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-26.02	5.26	-	-20.76	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-41.91	5.26	0.19	-36.46	Average	27	Pass
NVNT	a	5825	Ant1	5850	-34.52	5.26	-	-29.26	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-46.93	5.26	0.19	-41.48	Average	27	Pass
NVNT	a	5825	Ant1	5855	-39.54	5.26	-	-34.28	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-51.78	5.26	0.19	-46.33	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-47.09	5.26	-	-41.83	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-54.71	5.26	0.19	-49.26	Average	10	Pass
NVNT	a	5825	Ant1	5925	-47.38	5.26	-	-42.12	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-55.35	5.26	0.19	-49.90	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-48.46	5.26	-	-43.20	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-55.9	5.26	0.23	-50.41	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-46.59	5.26	-	-41.33	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-54.04	5.26	0.23	-48.55	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-29.29	5.26	-	-24.03	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-46.56	5.26	0.23	-41.07	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-20.88	5.26	-	-15.62	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-40.34	5.26	0.23	-34.85	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-33.25	5.26	-	-27.99	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-46.09	5.26	0.23	-40.60	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-35.99	5.26	-	-30.73	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-51.71	5.26	0.23	-46.22	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-46.13	5.26	-	-40.87	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-54.45	5.26	0.23	-48.96	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-45.38	5.26	-	-40.12	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-54.89	5.26	0.23	-49.40	Average	-27	Pass

Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak



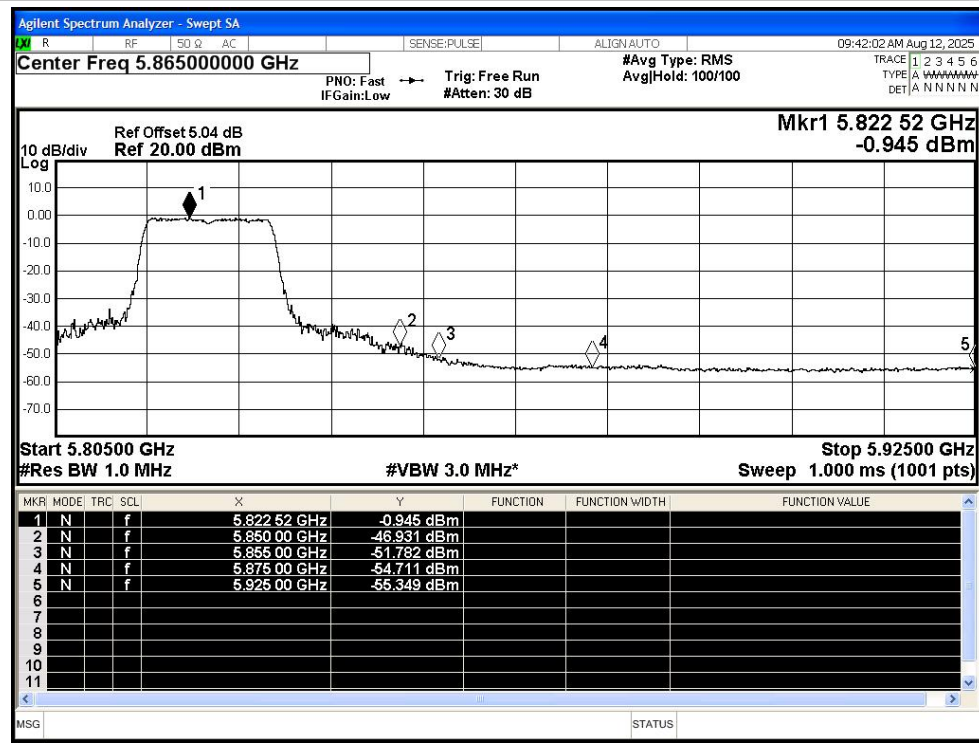
Restrict Band NVNT a 5745MHz Ant1 Average



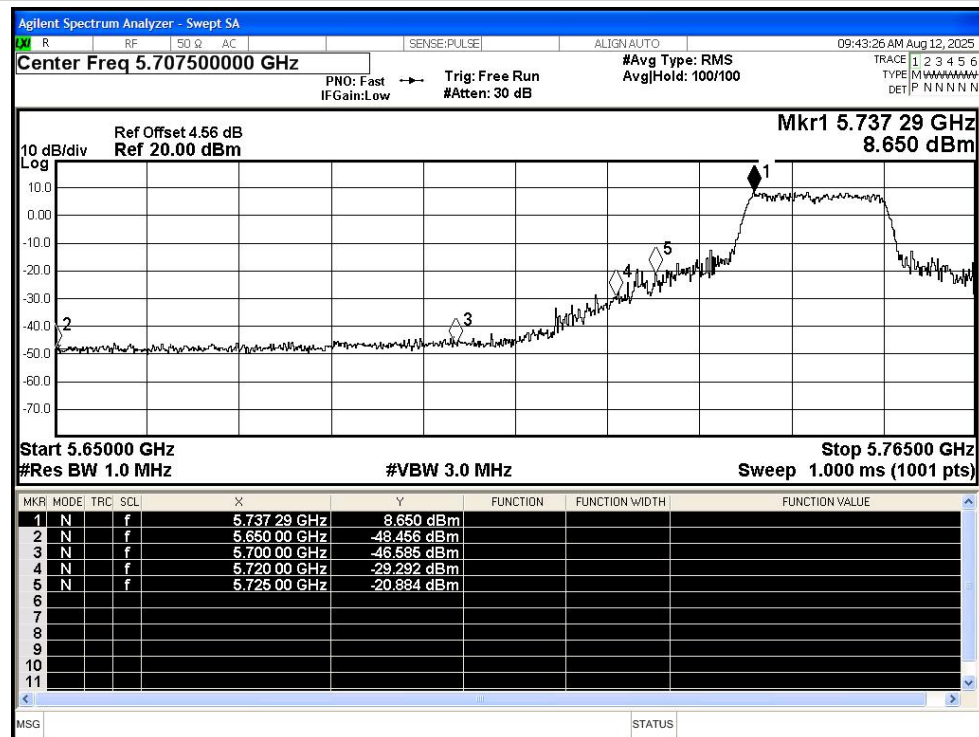
Restrict Band NVNT a 5825MHz Ant1 Peak



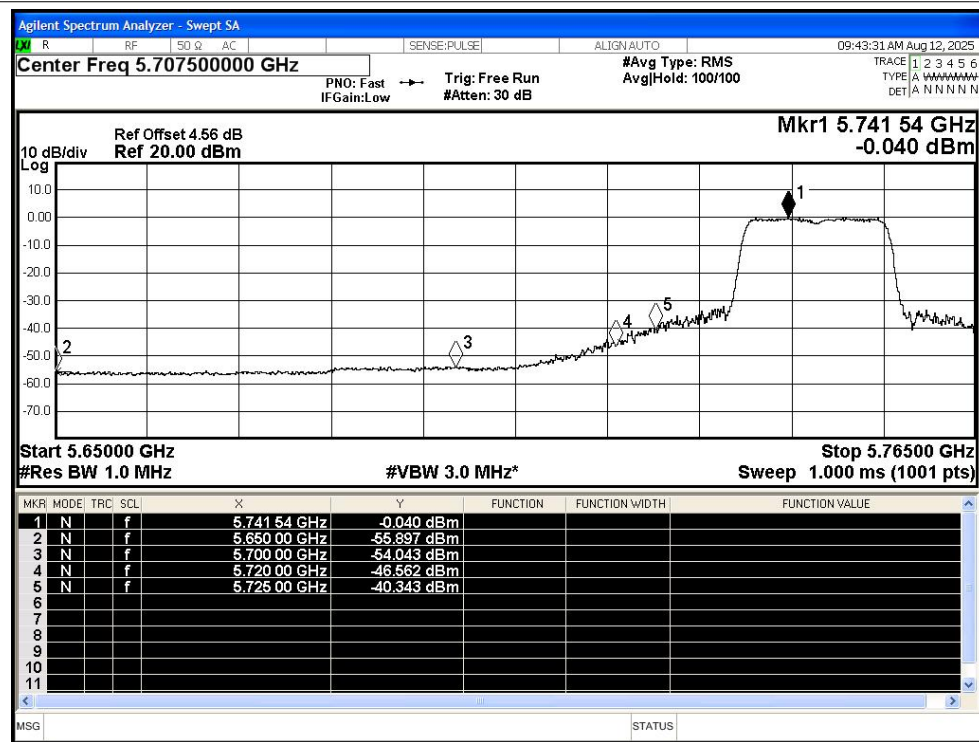
Restrict Band NVNT a 5825MHz Ant1 Average



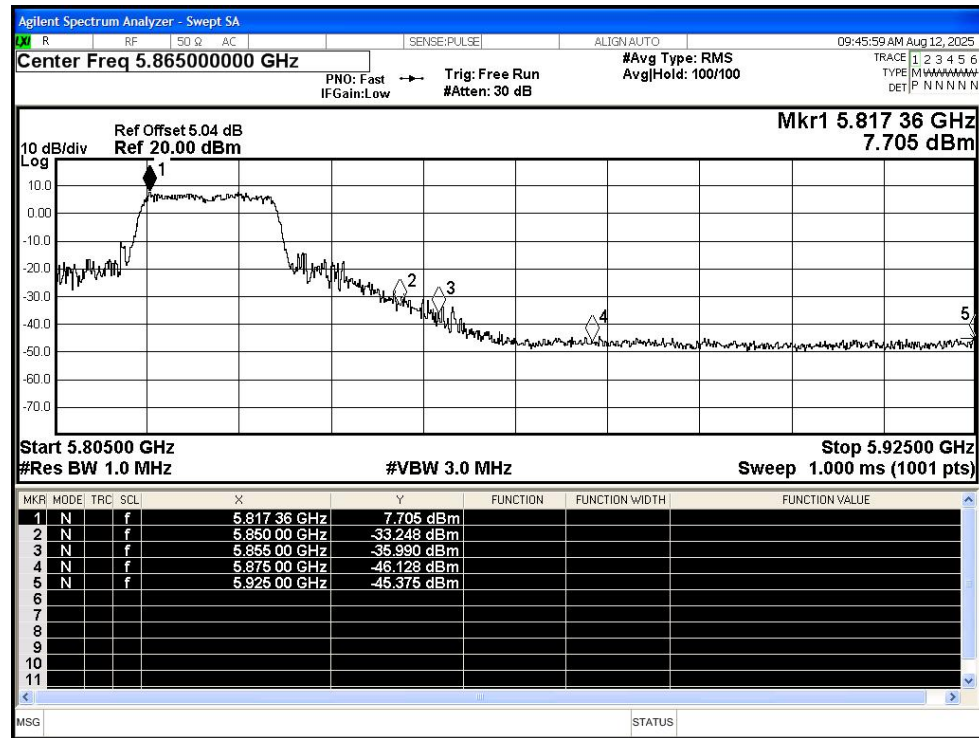
Restrict Band NVNT n20 5745MHz Ant1 Peak



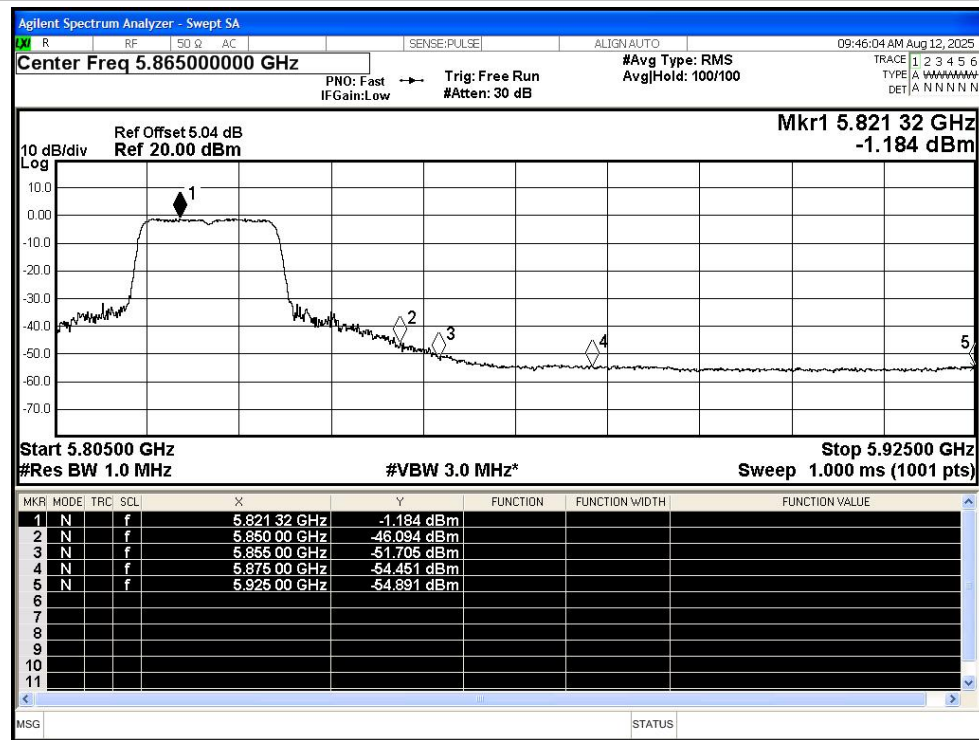
Restrict Band NVNT n20 5745MHz Ant1 Average



Restrict Band NVNT n20 5825MHz Ant1 Peak



Restrict Band NVNT n20 5825MHz Ant1 Average

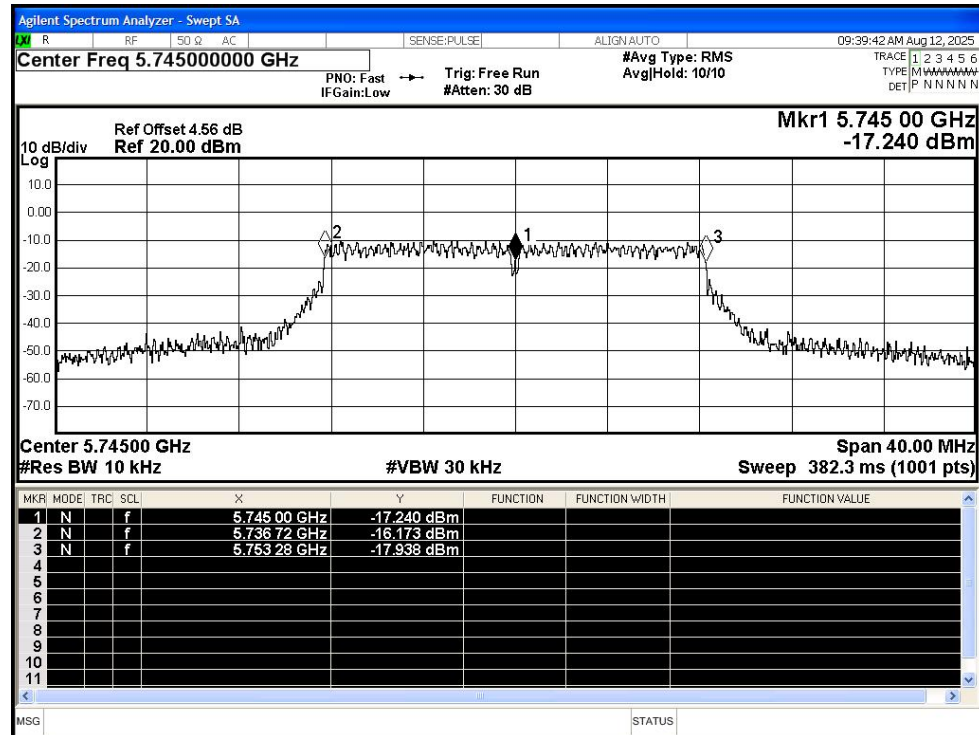


Frequency Stability

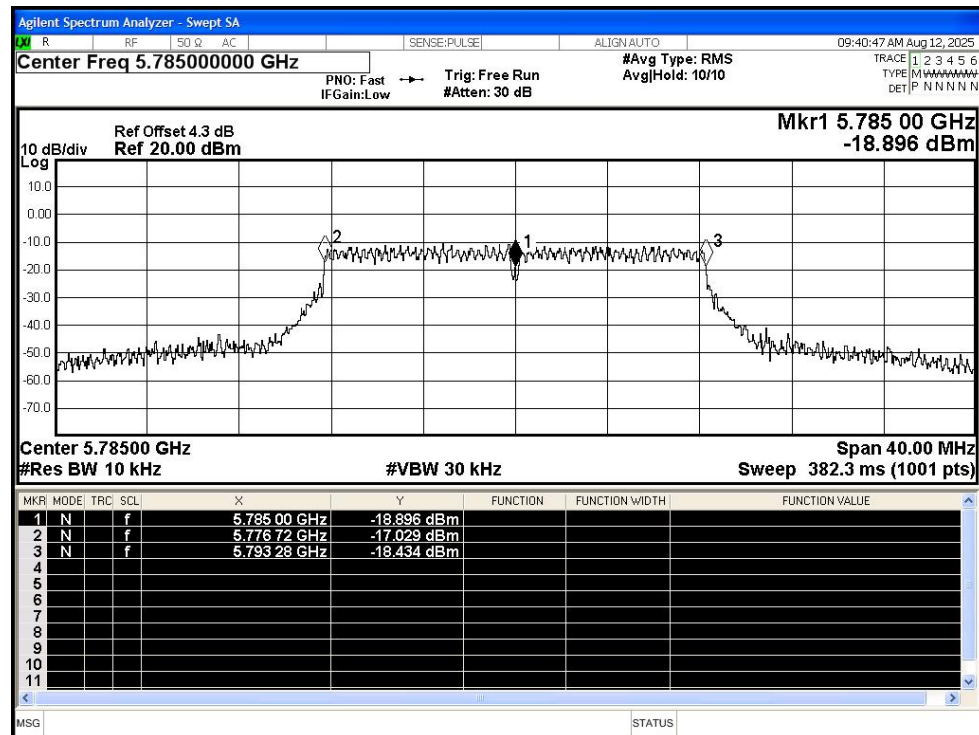
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5745	0	0	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825	0	0	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NVNT	n20	5825	Ant1	5825	0	0	25	Pass

Test Graphs

Freq. Stability NVNT a 5745MHz Ant1

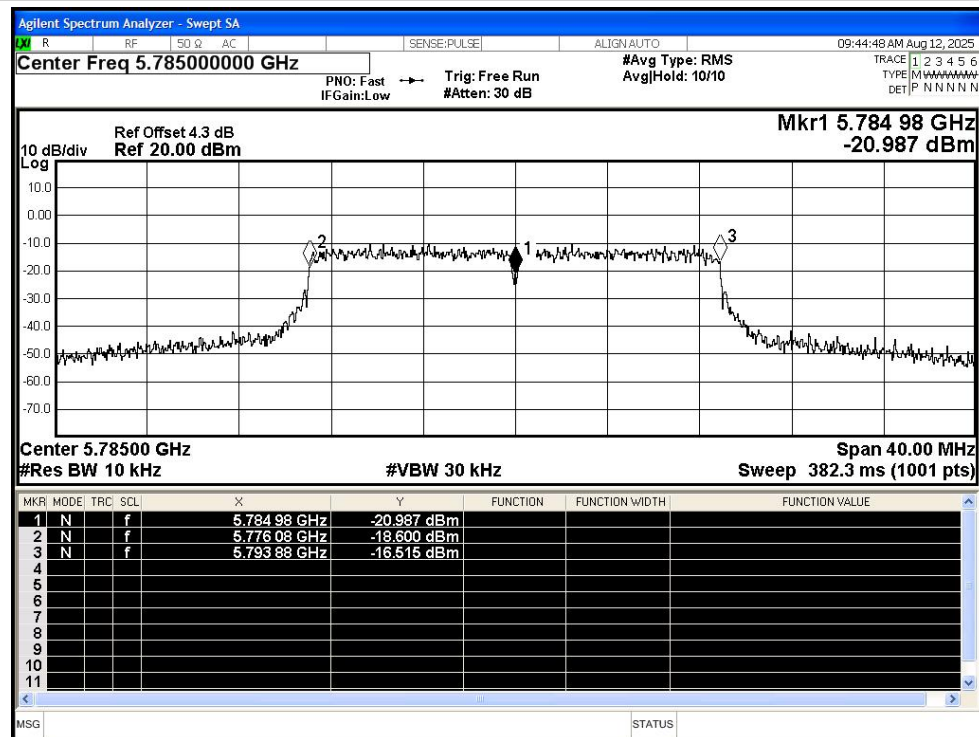


Freq. Stability NVNT a 5785MHz Ant1

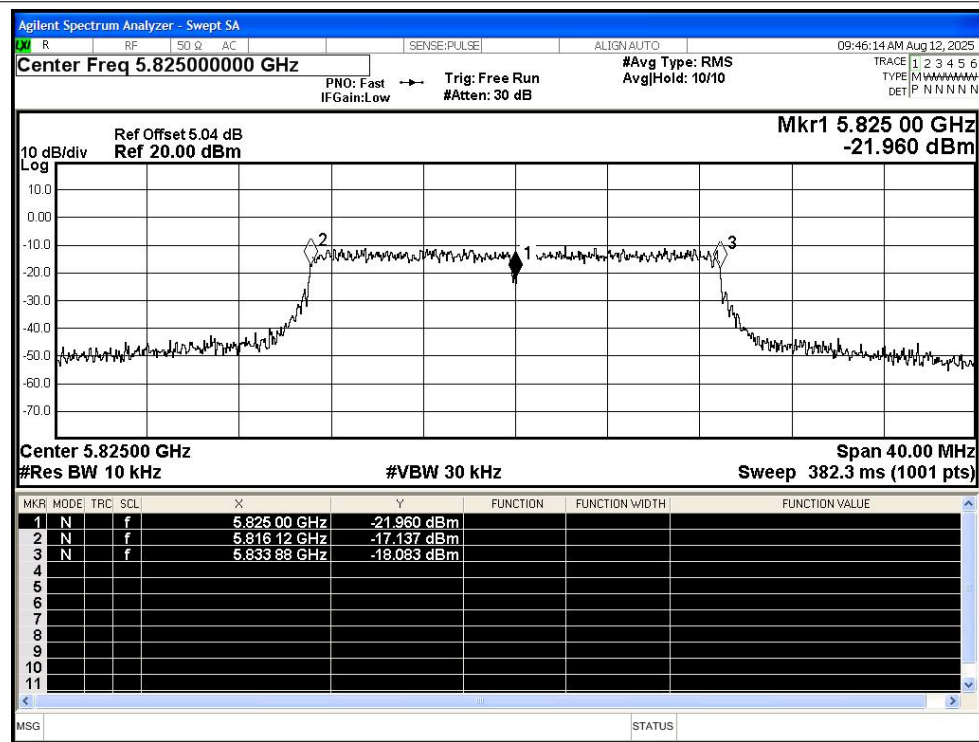


[illegible][illegible]

Freq. Stability NVNT n20 5785MHz Ant1



Freq. Stability NVNT n20 5825MHz Ant1

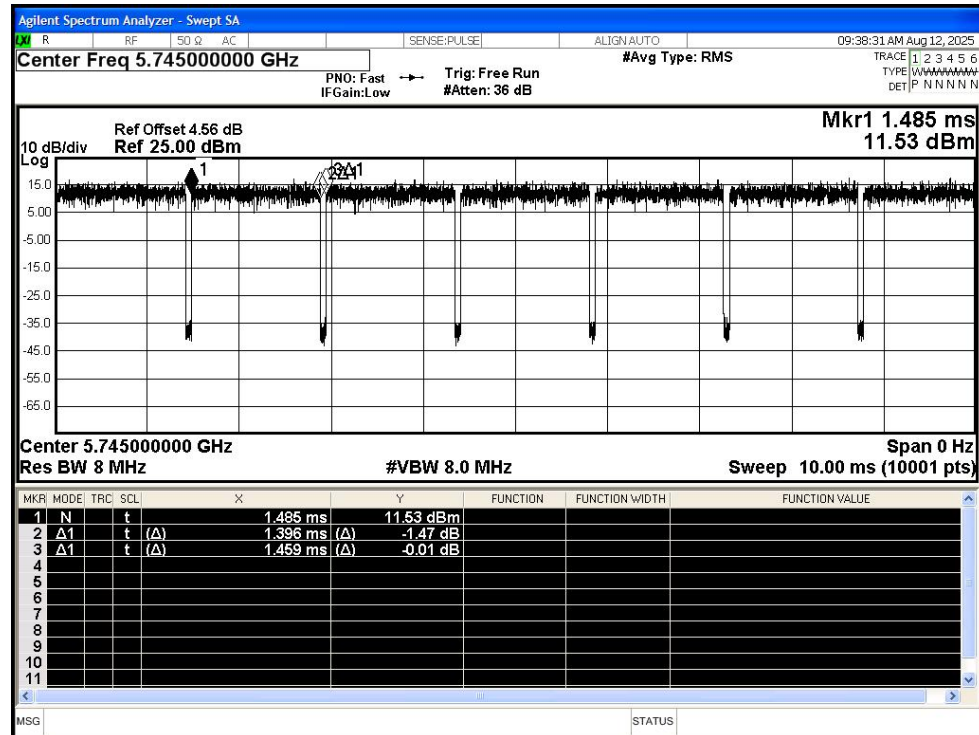


Duty Cycle

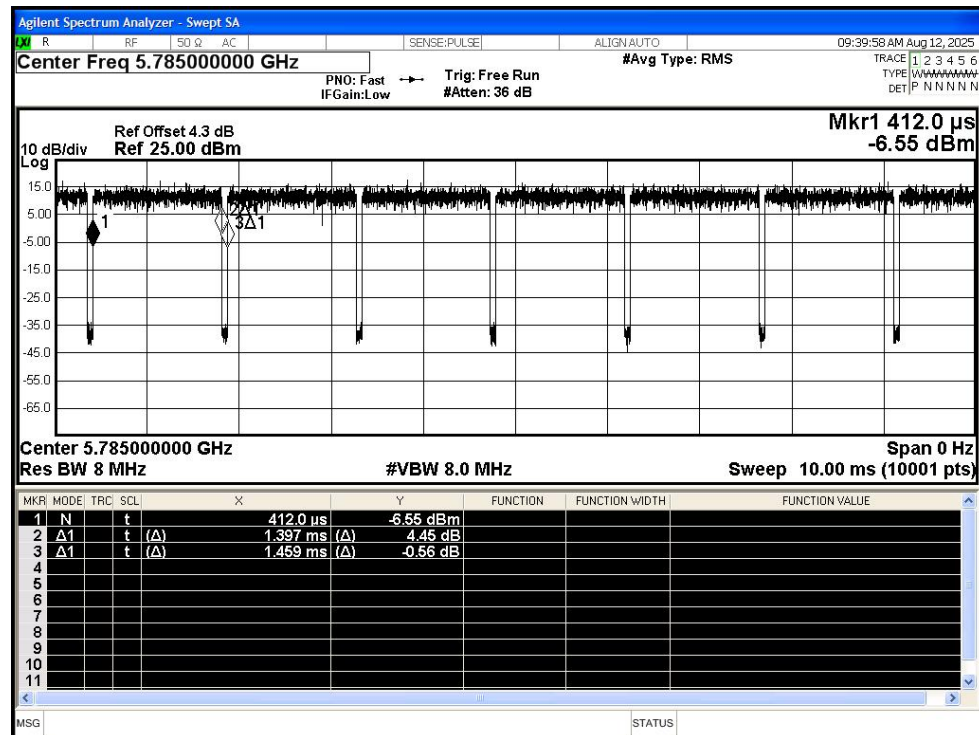
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	95.68	0.19	0.72
NVNT	a	5785	Ant1	95.75	0.19	0.72
NVNT	a	5825	Ant1	95.68	0.19	0.72
NVNT	n20	5745	Ant1	94.94	0.23	0.85
NVNT	n20	5785	Ant1	94.94	0.23	0.85
NVNT	n20	5825	Ant1	94.94	0.23	0.85

Test Graphs

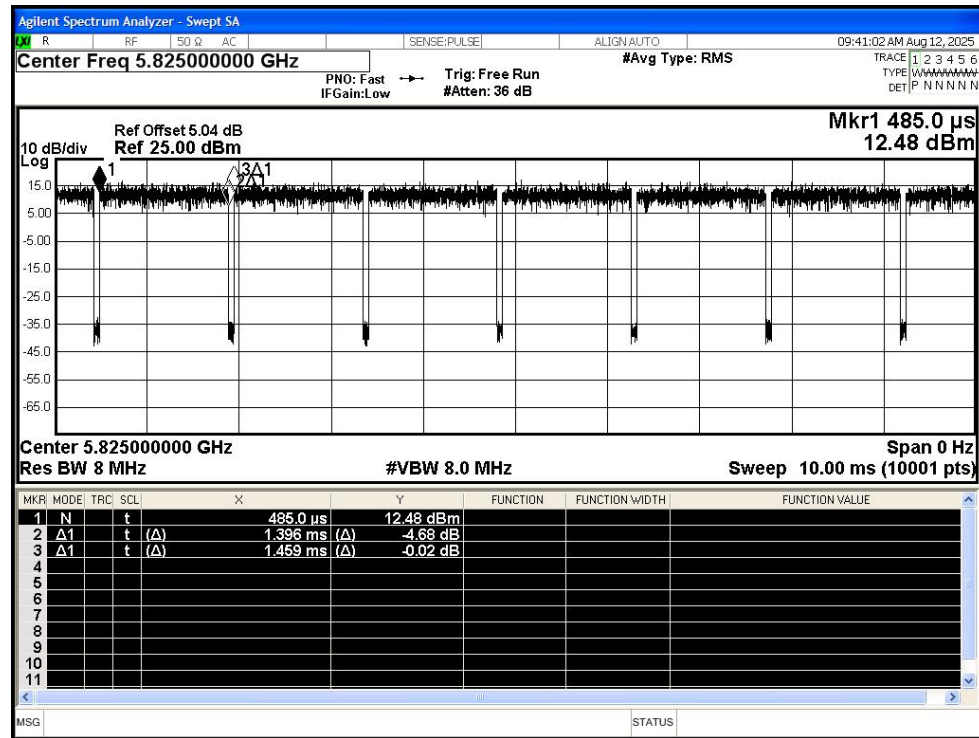
Duty Cycle NVNT a 5745MHz Ant1



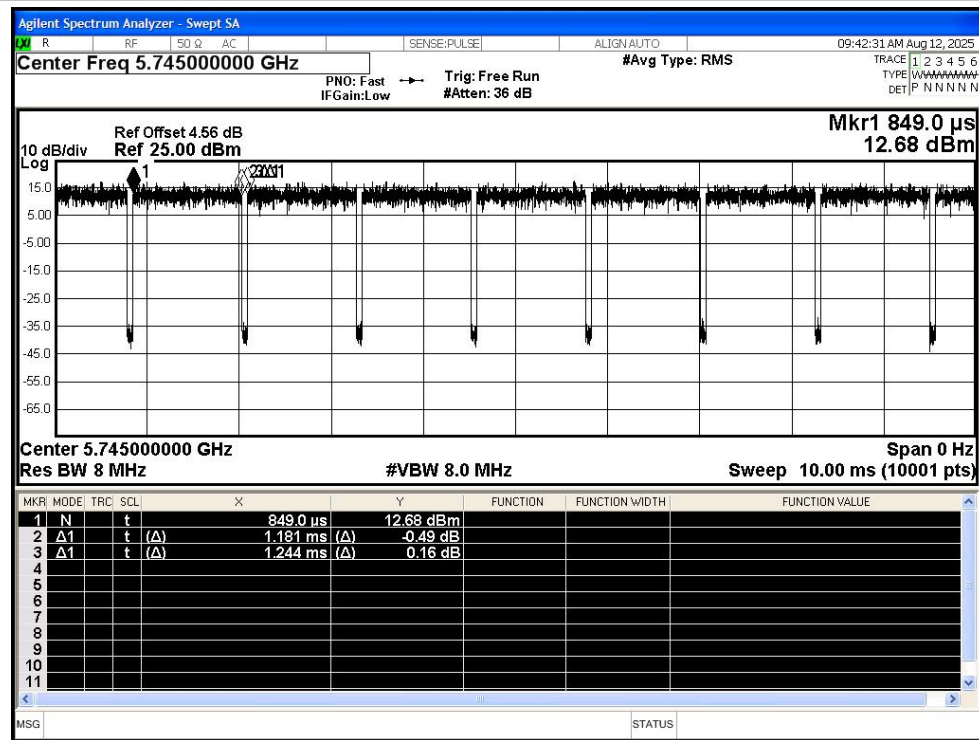
Duty Cycle NVNT a 5785MHz Ant1



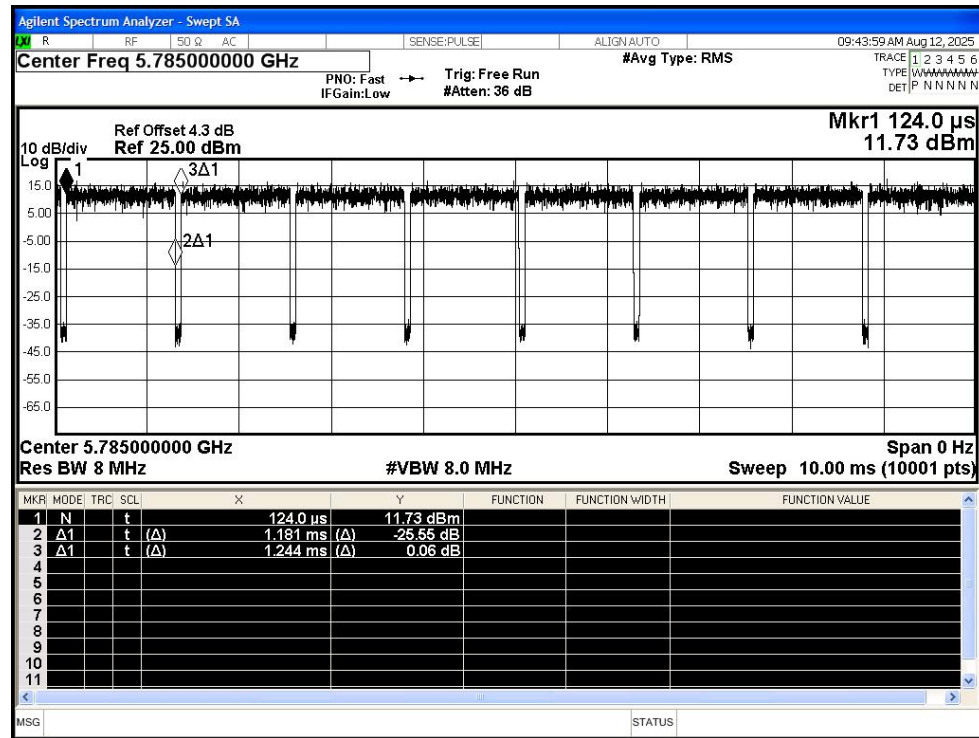
Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1

