



Appendix D

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: WiFi Retrofit Smart Lock

Test Model: WR

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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D.1 -6dB Bandwidth

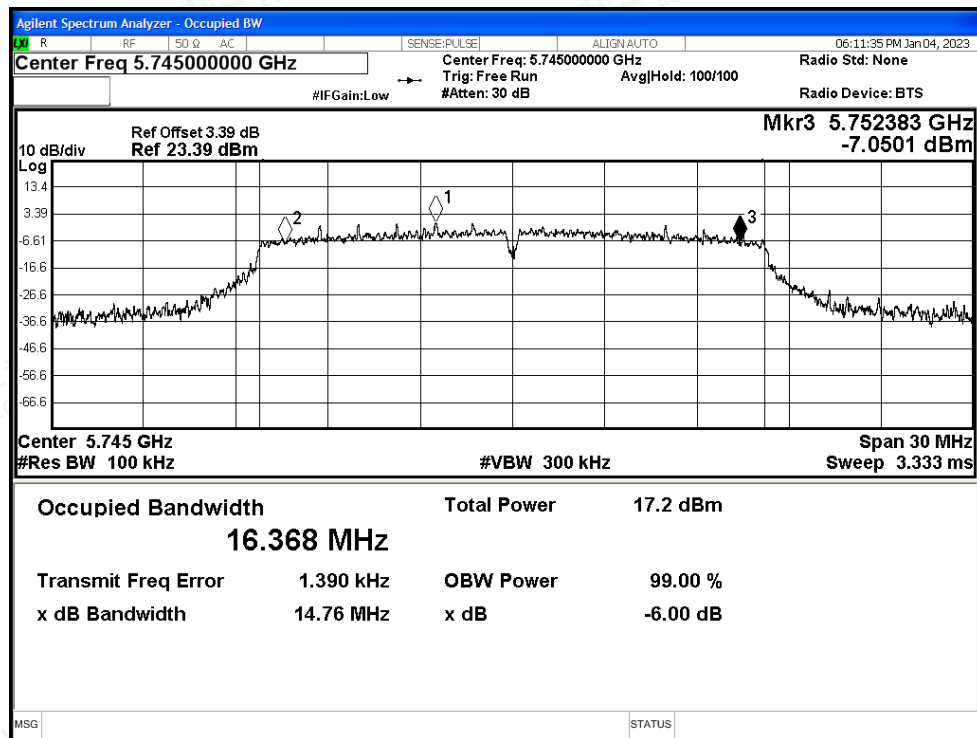
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant	14.762	≥ 0.5	Pass
NVNT	a	5785	Ant	14.629	≥ 0.5	Pass
NVNT	a	5825	Ant	12.83	≥ 0.5	Pass
NVNT	n20	5745	Ant	15.068	≥ 0.5	Pass
NVNT	n20	5785	Ant	14.395	≥ 0.5	Pass
NVNT	n20	5825	Ant	15.07	≥ 0.5	Pass
NVNT	n40	5755	Ant	33.535	≥ 0.5	Pass
NVNT	n40	5795	Ant	35.017	≥ 0.5	Pass
NVNT	ac20	5745	Ant	14.377	≥ 0.5	Pass
NVNT	ac20	5785	Ant	15.023	≥ 0.5	Pass
NVNT	ac20	5825	Ant	15.02	≥ 0.5	Pass
NVNT	ac40	5755	Ant	35.073	≥ 0.5	Pass
NVNT	ac40	5795	Ant	35.051	≥ 0.5	Pass
NVNT	ac80	5775	Ant	75.039	≥ 0.5	Pass



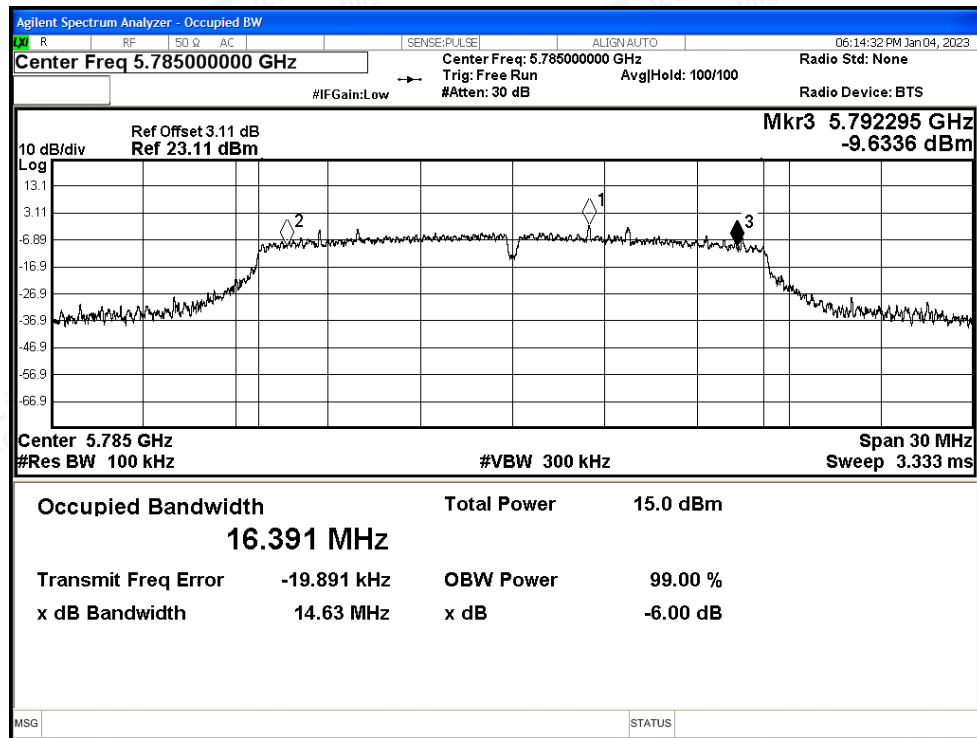


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant

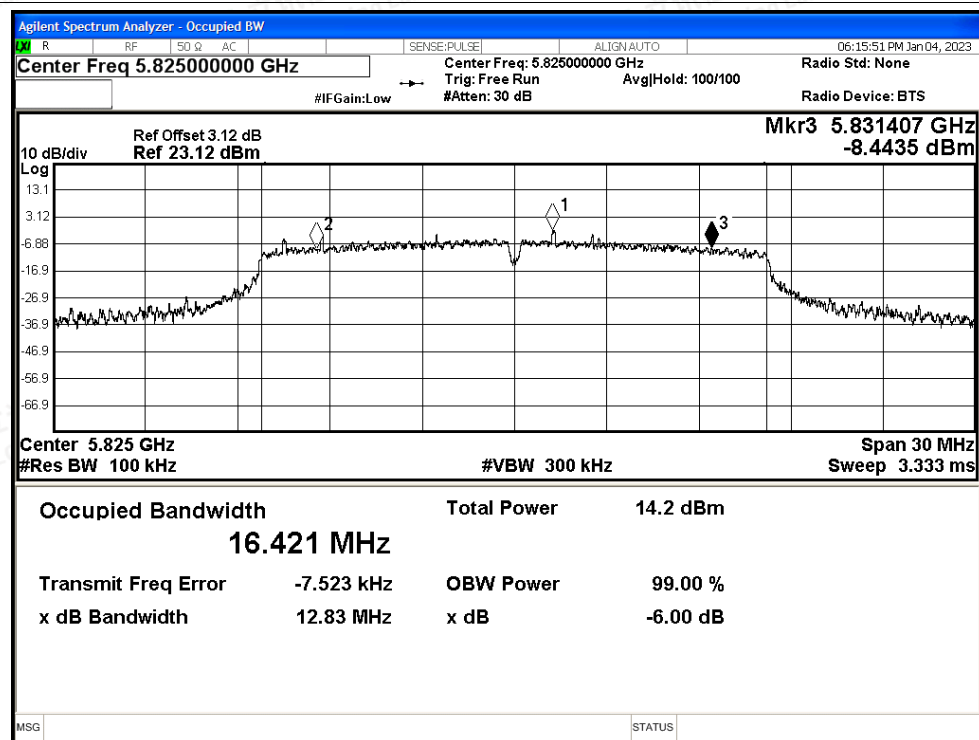


-6dB Bandwidth NVNT a 5785MHz Ant

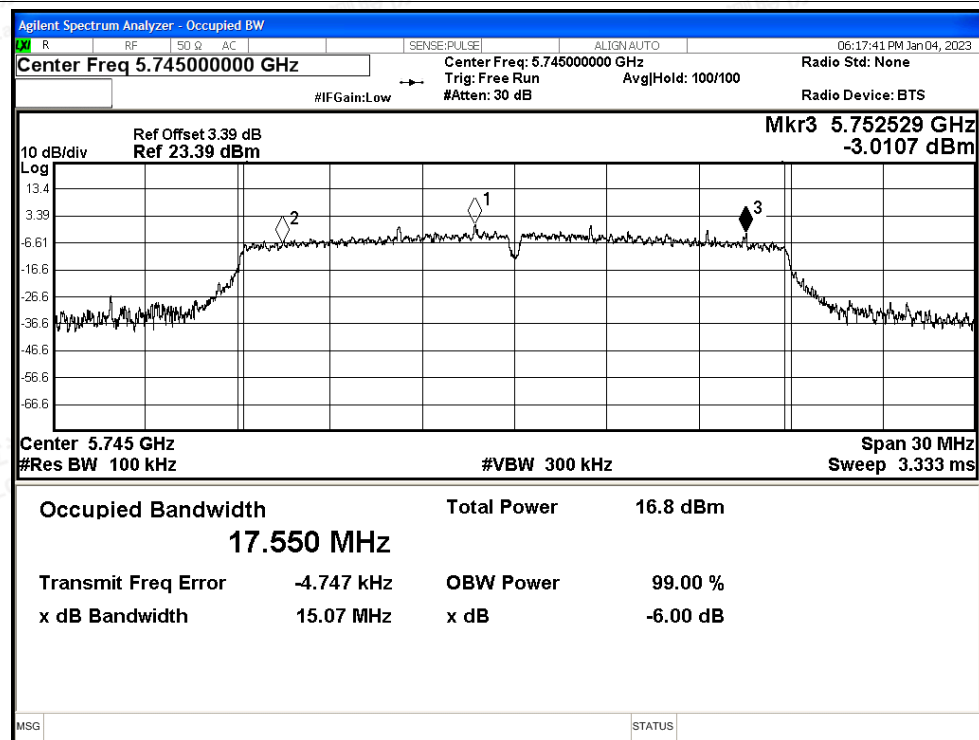




-6dB Bandwidth NVNT a 5825MHz Ant

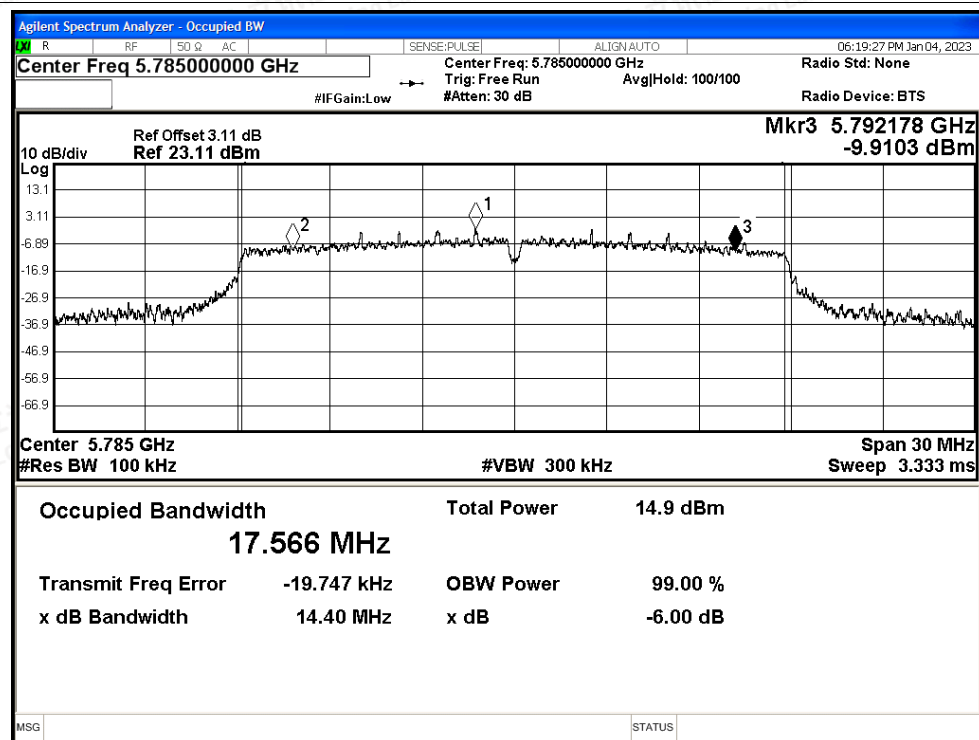


-6dB Bandwidth NVNT n20 5745MHz Ant

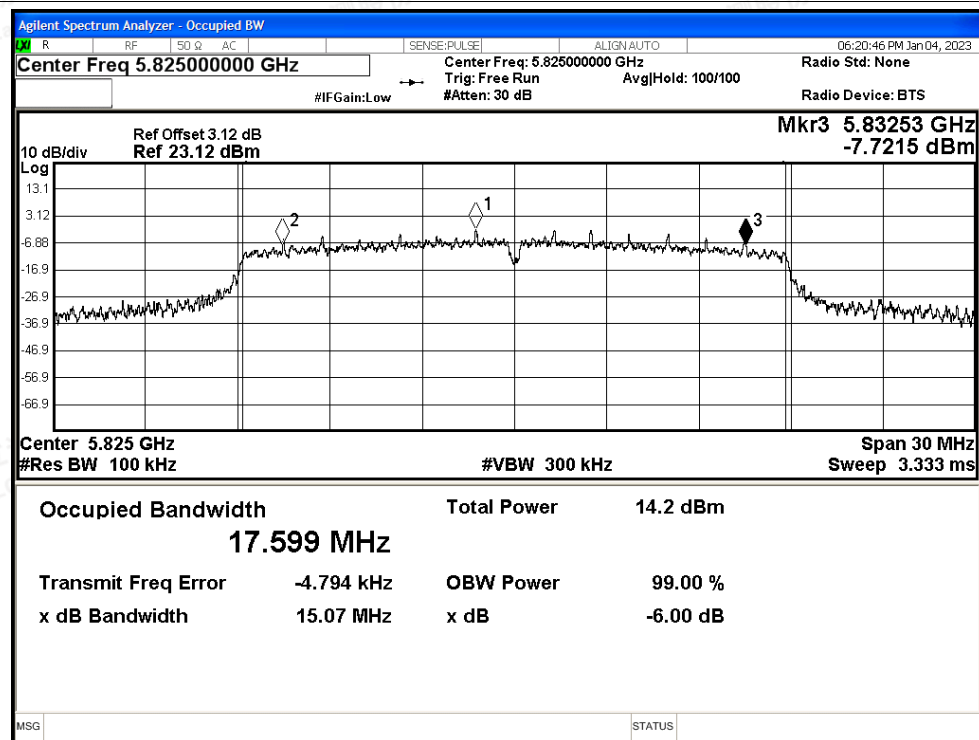




-6dB Bandwidth NVNT n20 5785MHz Ant

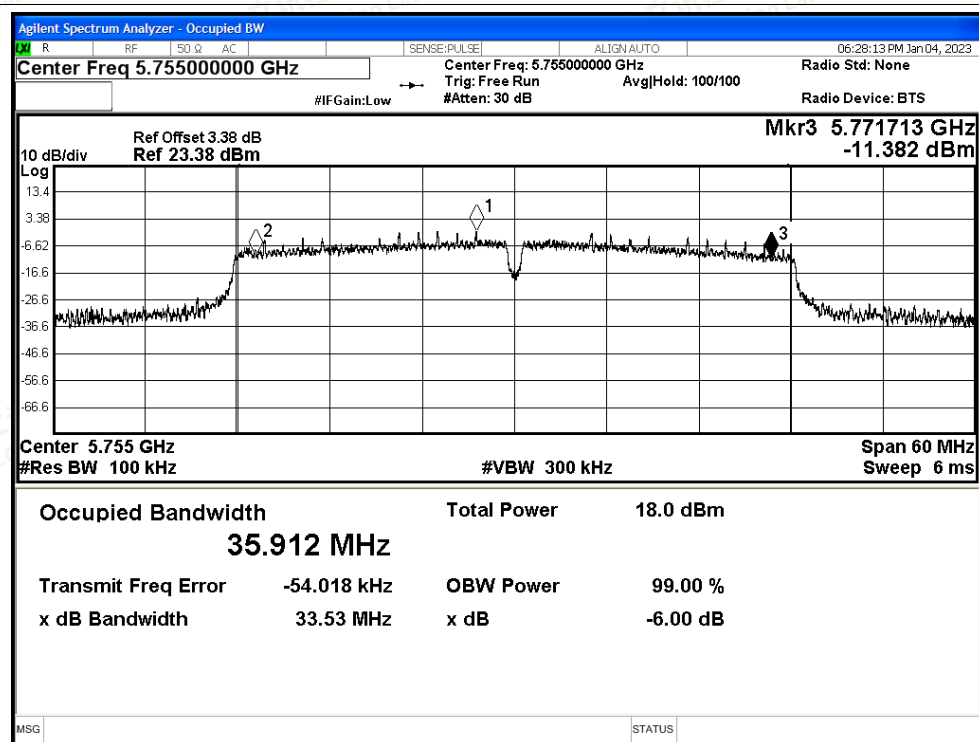


-6dB Bandwidth NVNT n20 5825MHz Ant

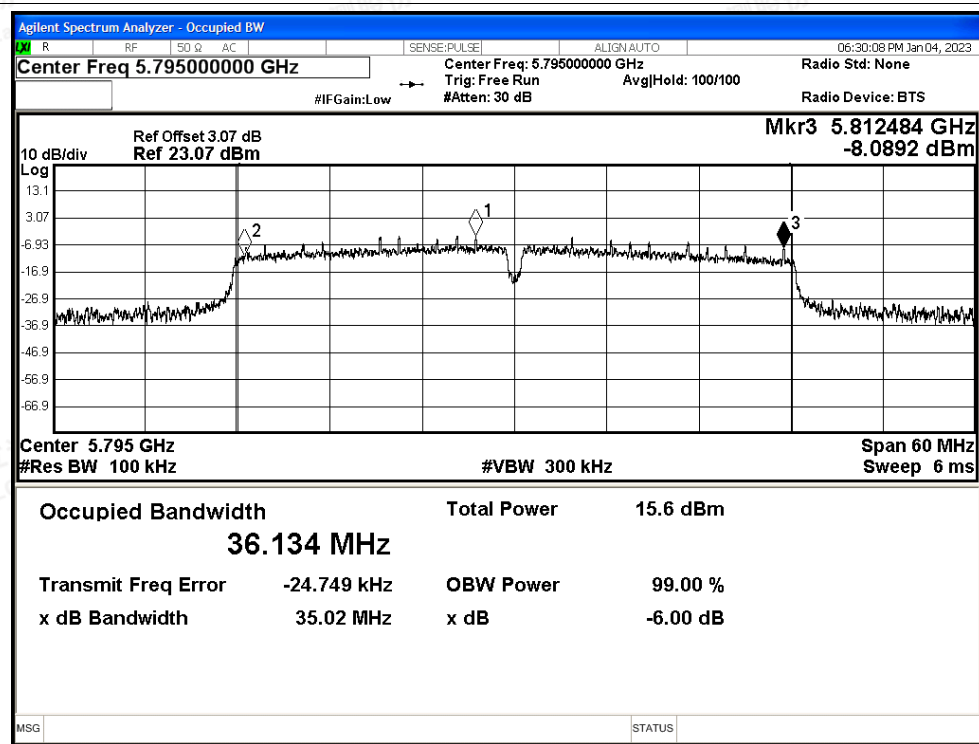




-6dB Bandwidth NVNT n40 5755MHz Ant

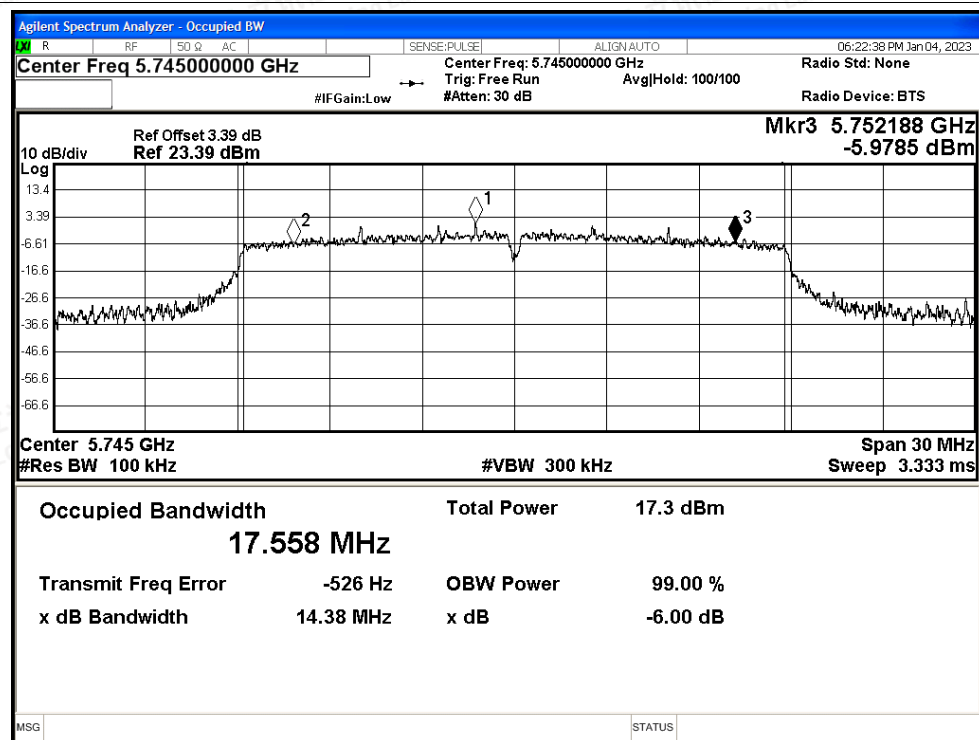


-6dB Bandwidth NVNT n40 5795MHz Ant

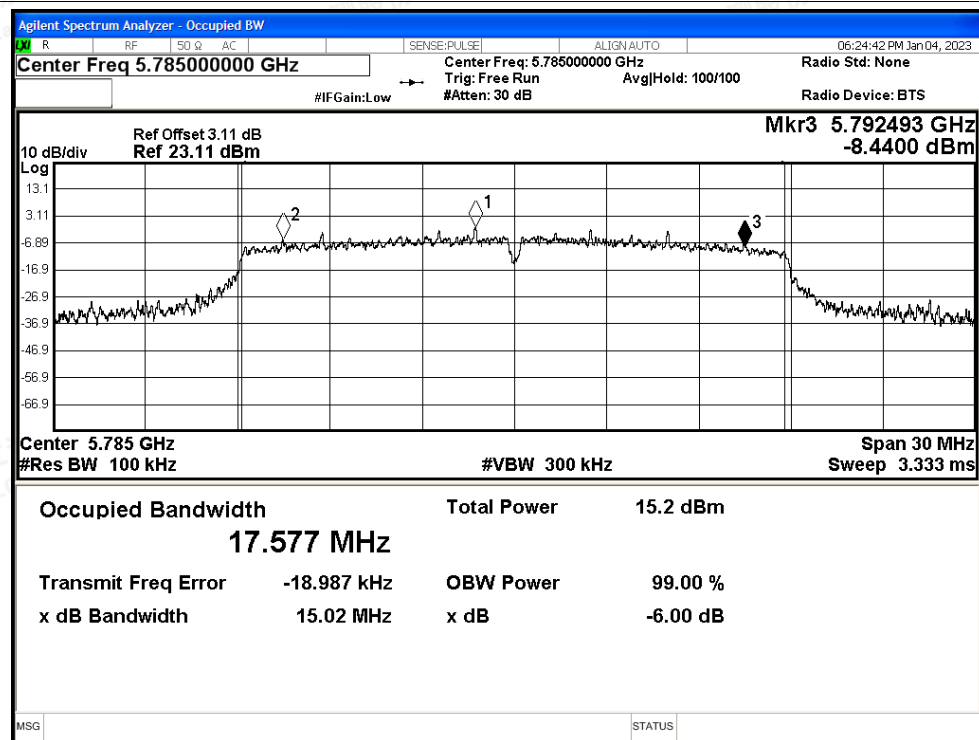




-6dB Bandwidth NVNT ac20 5745MHz Ant

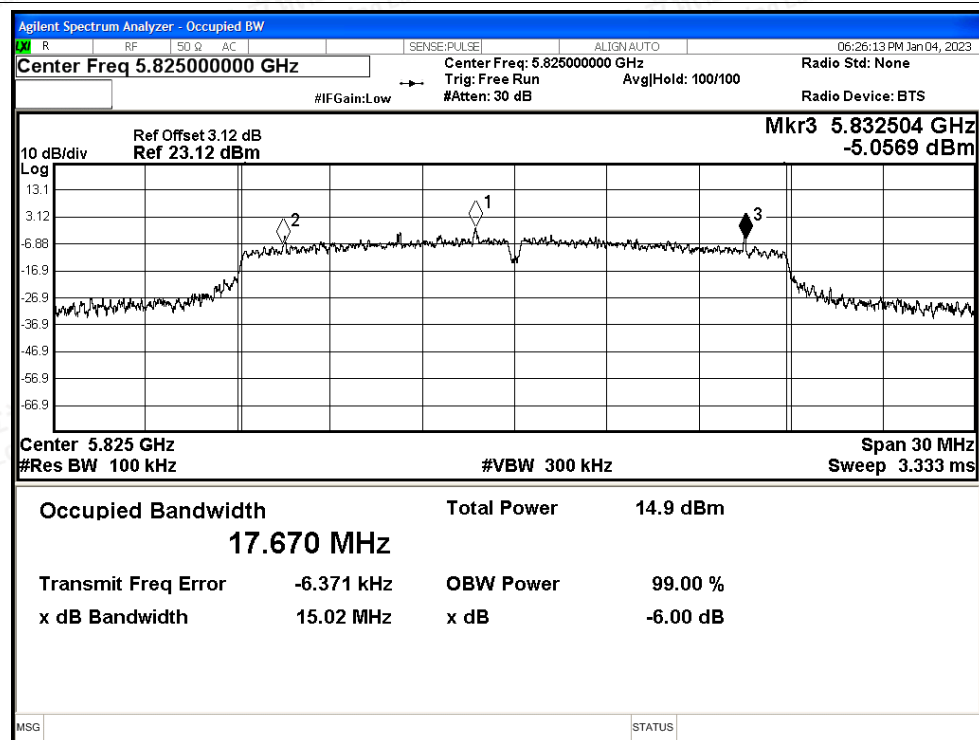


-6dB Bandwidth NVNT ac20 5785MHz Ant

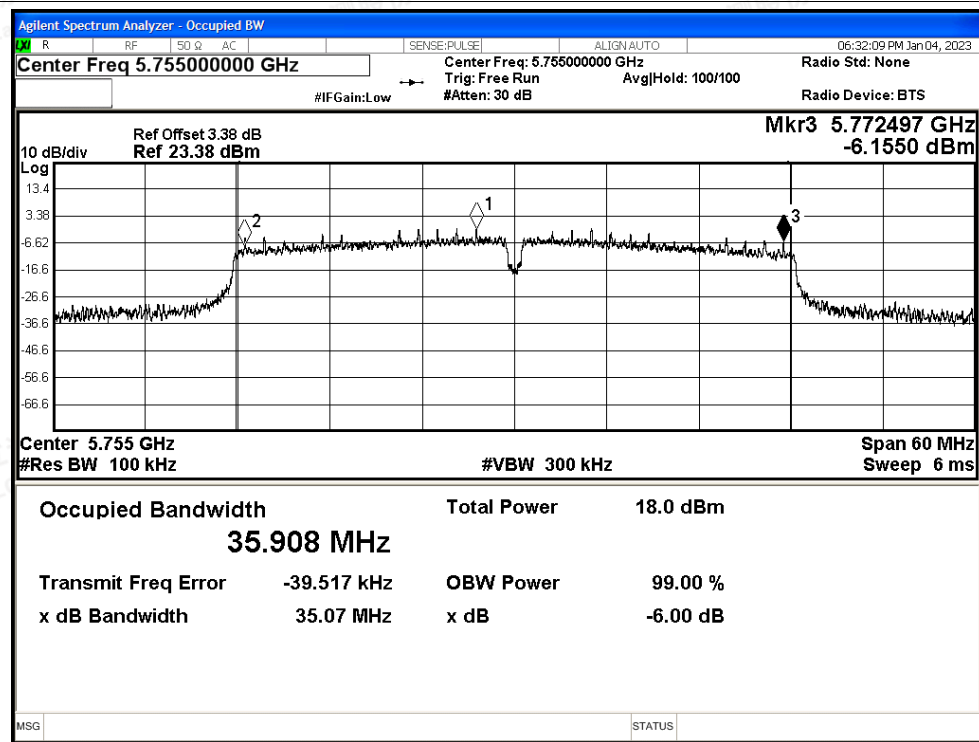




-6dB Bandwidth NVNT ac20 5825MHz Ant

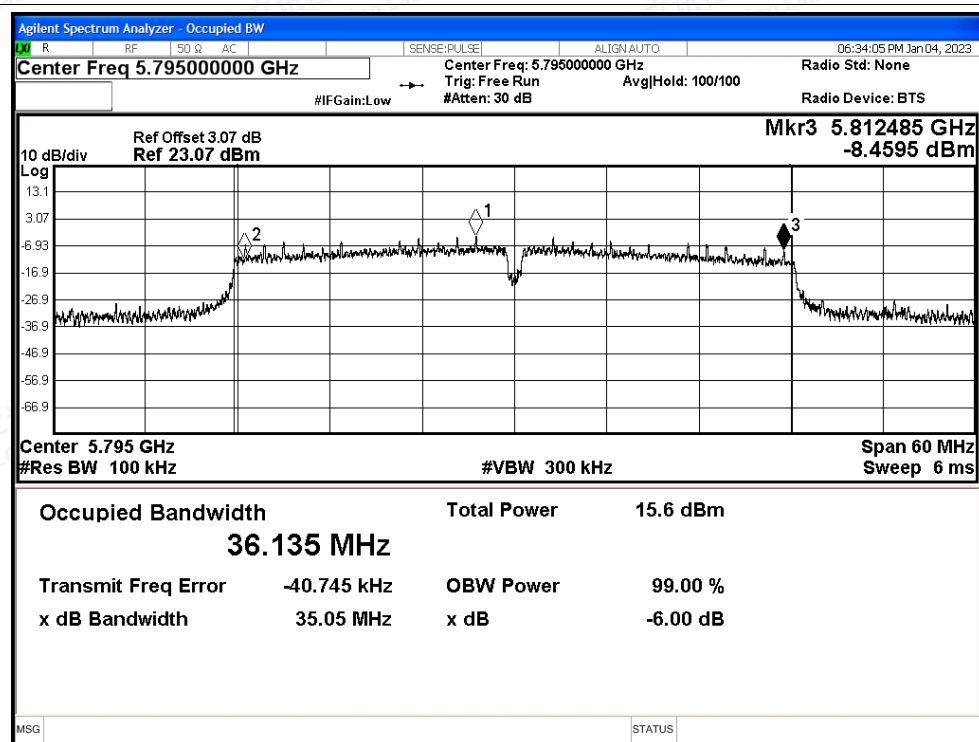


-6dB Bandwidth NVNT ac40 5755MHz Ant

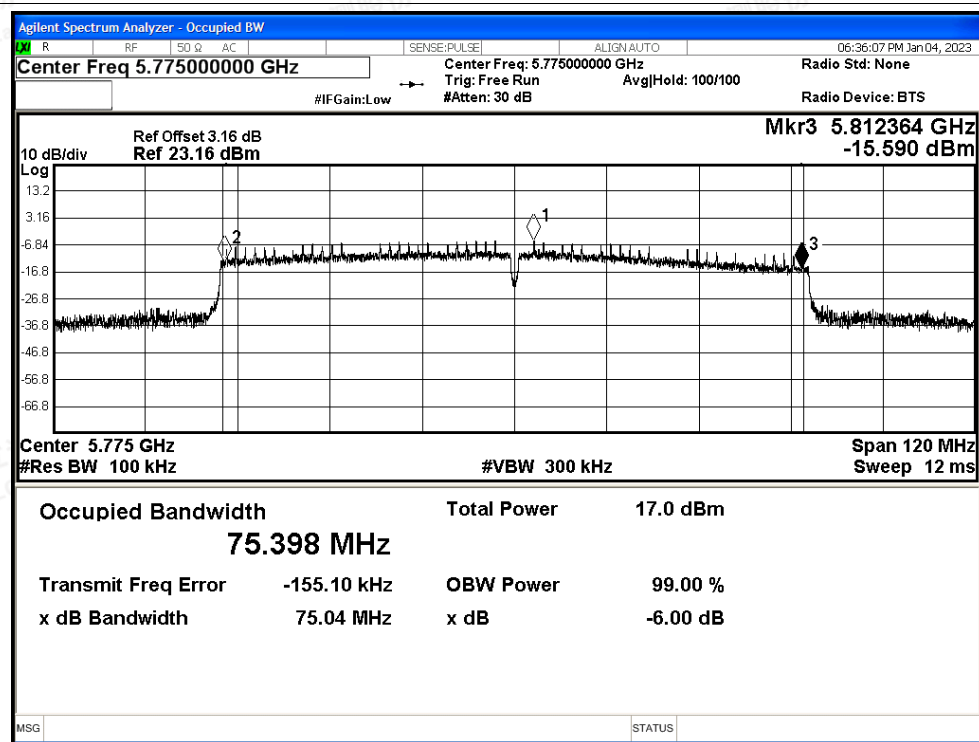




-6dB Bandwidth NVNT ac40 5795MHz Ant



-6dB Bandwidth NVNT ac80 5775MHz Ant





D.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant	16.416
NVNT	a	5785	Ant	16.486
NVNT	a	5825	Ant	16.539
NVNT	n20	5745	Ant	17.609
NVNT	n20	5785	Ant	17.638
NVNT	n20	5825	Ant	17.661
NVNT	n40	5755	Ant	36.122
NVNT	n40	5795	Ant	36.286
NVNT	ac20	5745	Ant	17.614
NVNT	ac20	5785	Ant	17.611
NVNT	ac20	5825	Ant	17.755
NVNT	ac40	5755	Ant	36.103
NVNT	ac40	5795	Ant	36.286
NVNT	ac80	5775	Ant	75.558

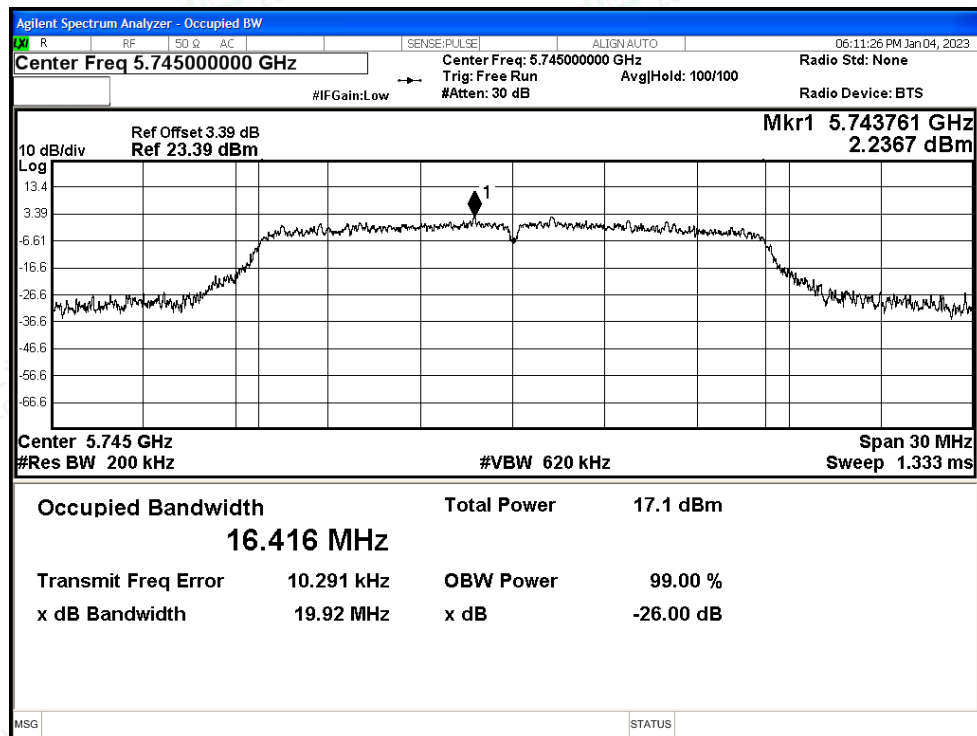


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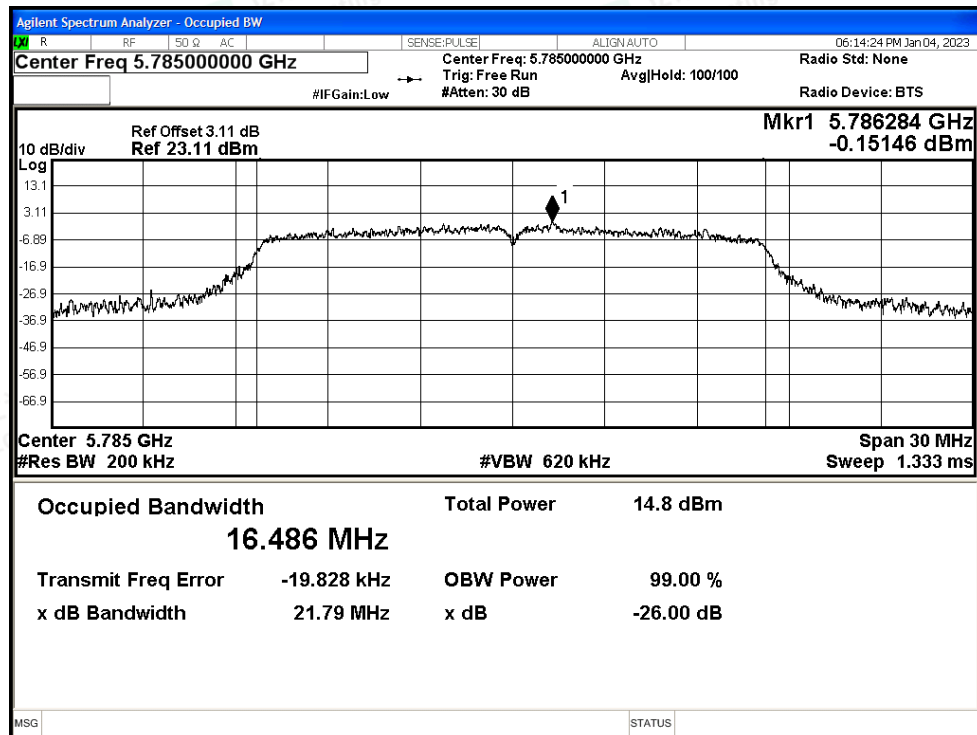


Test Graphs

OBW NVNT a 5745MHz Ant

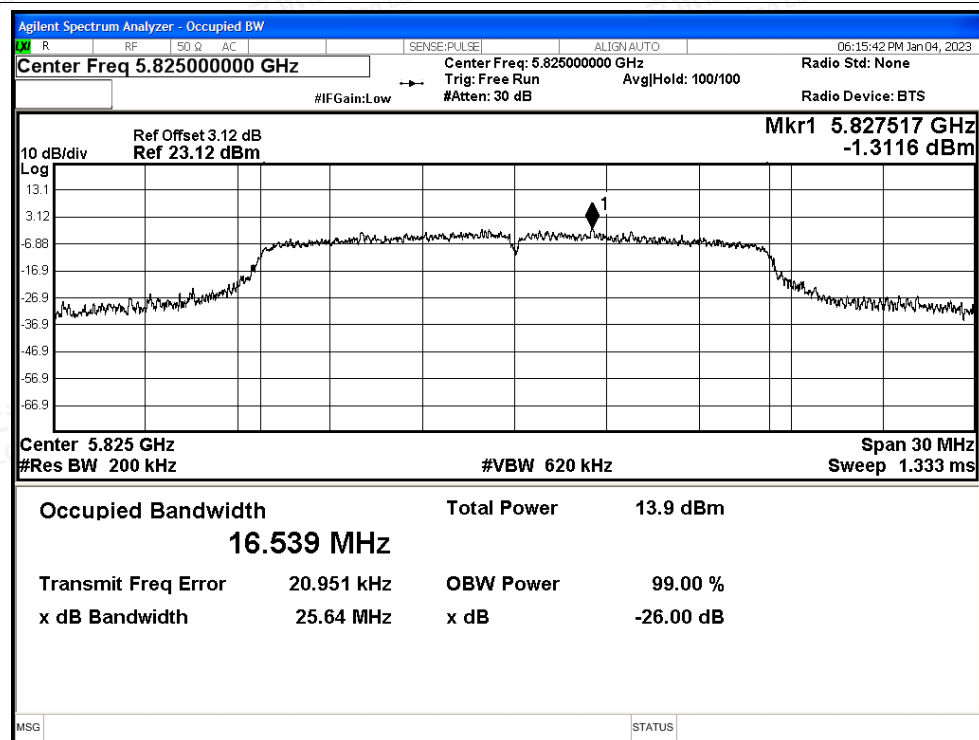


OBW NVNT a 5785MHz Ant

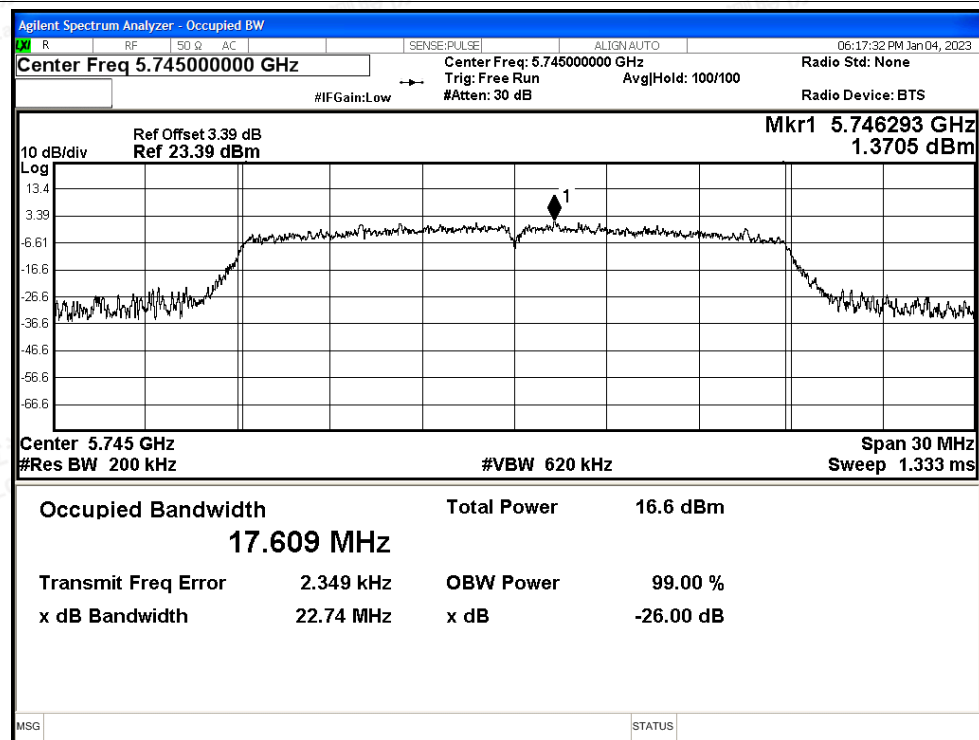


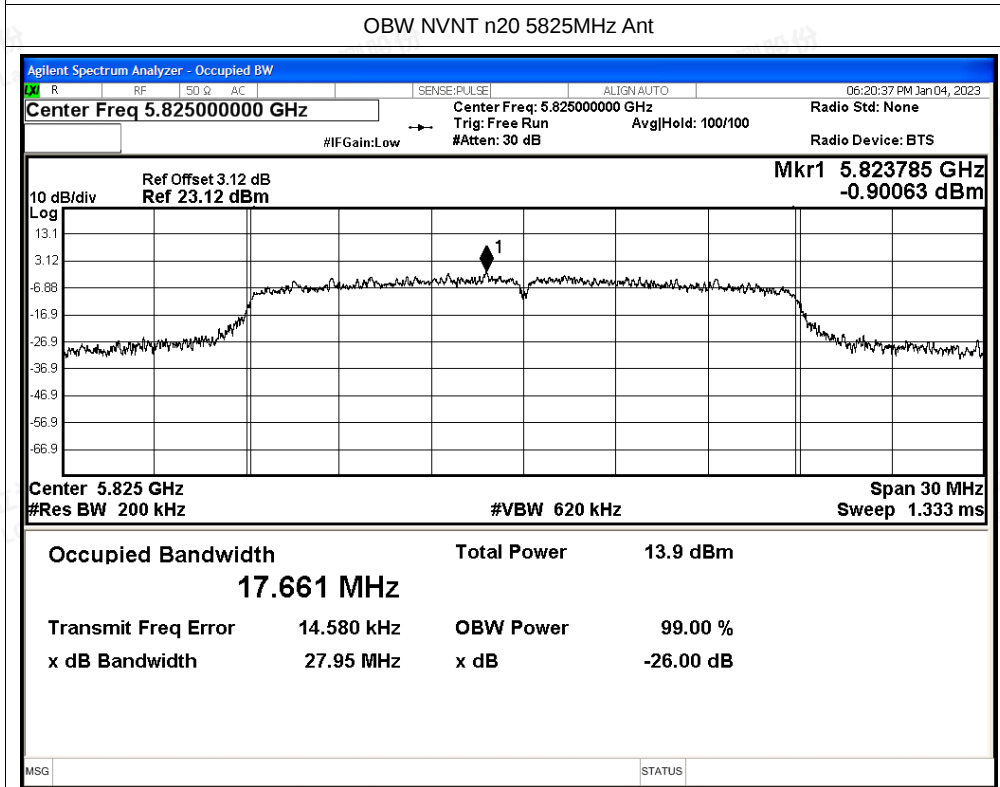
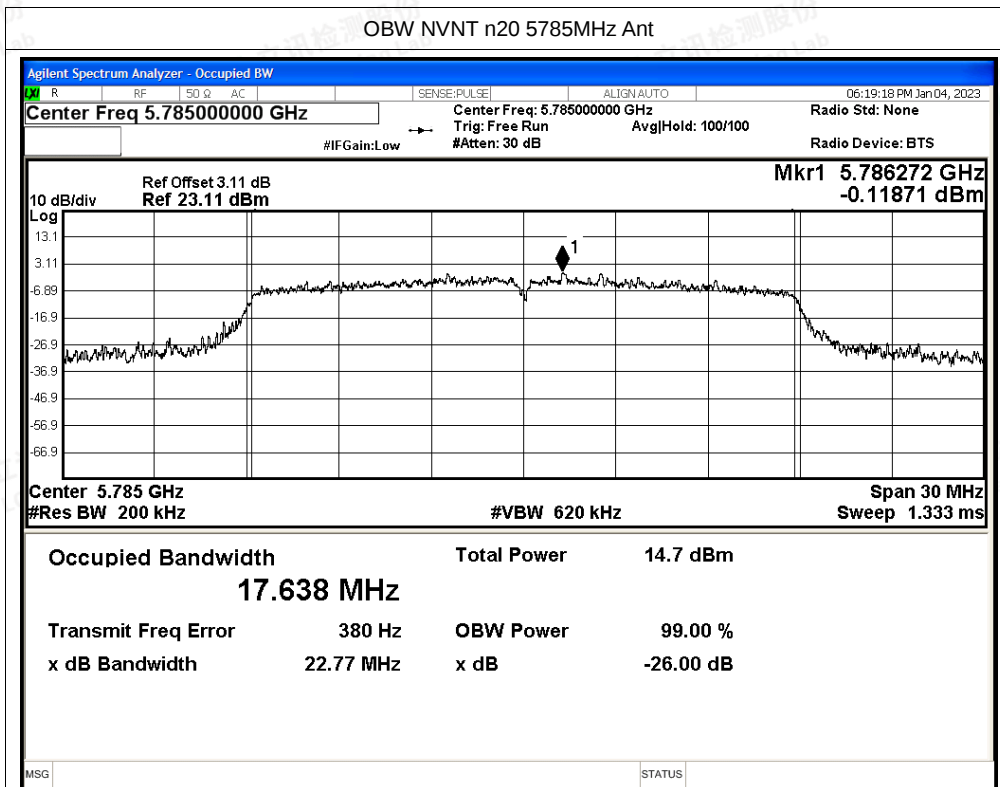


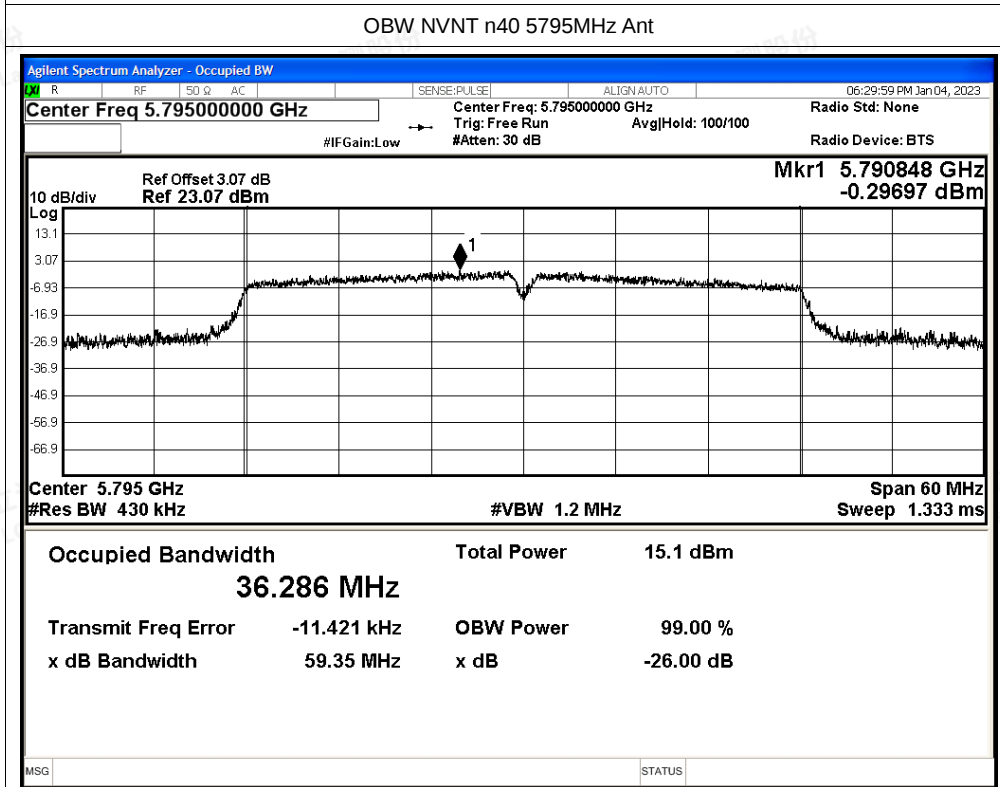
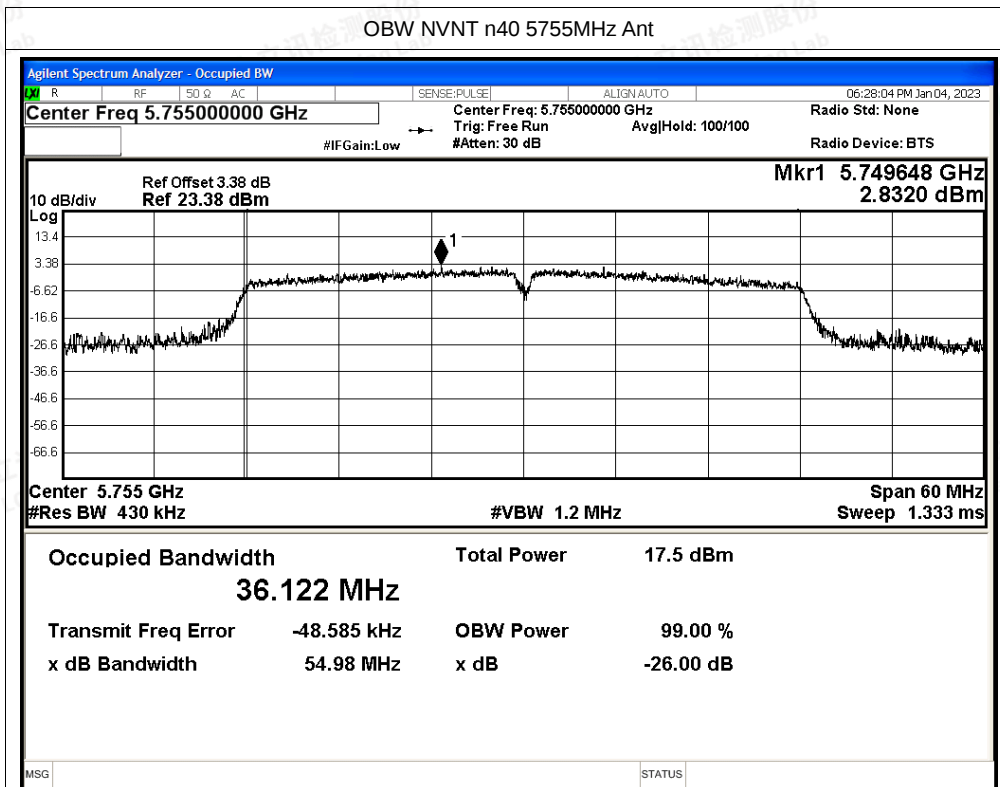
OBW NVNT a 5825MHz Ant



OBW NVNT n20 5745MHz Ant

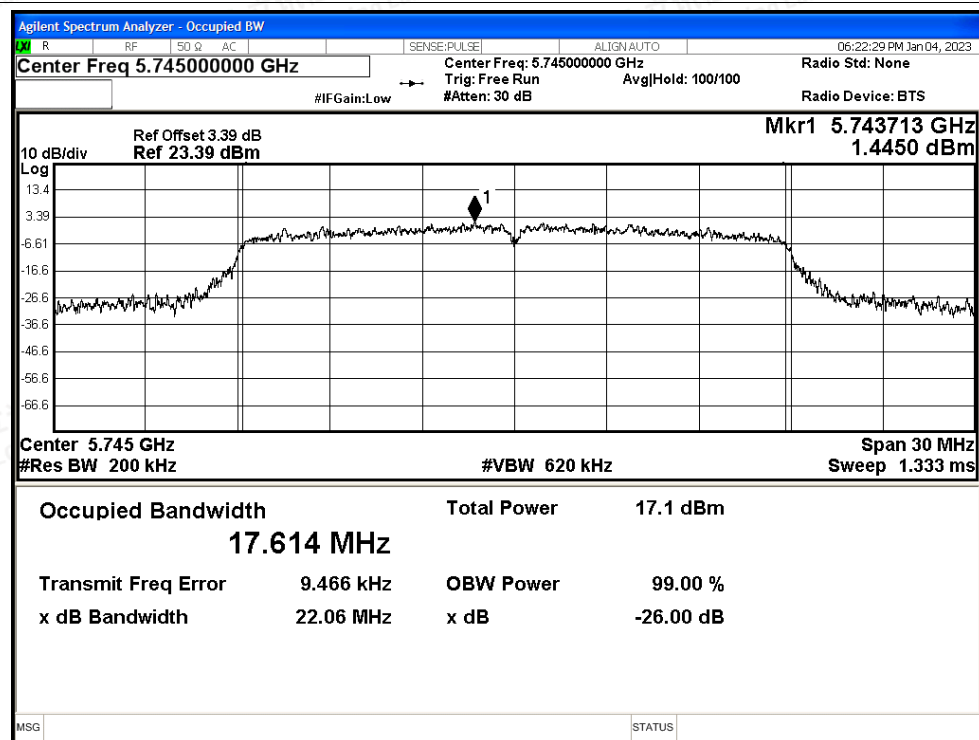




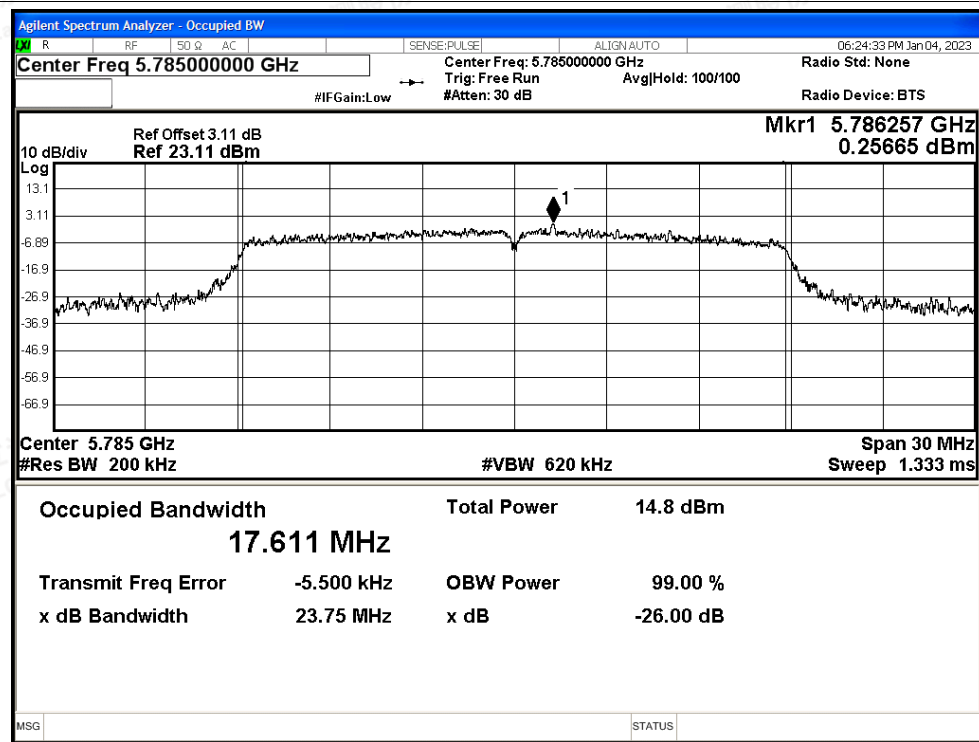




OBW NVNT ac20 5745MHz Ant

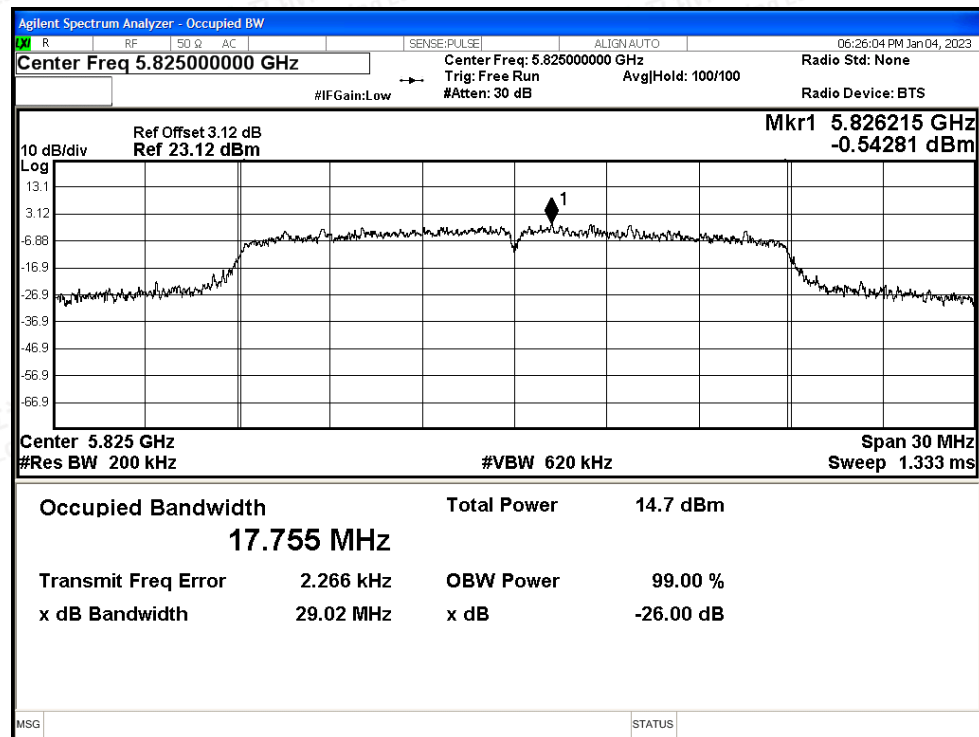


OBW NVNT ac20 5785MHz Ant

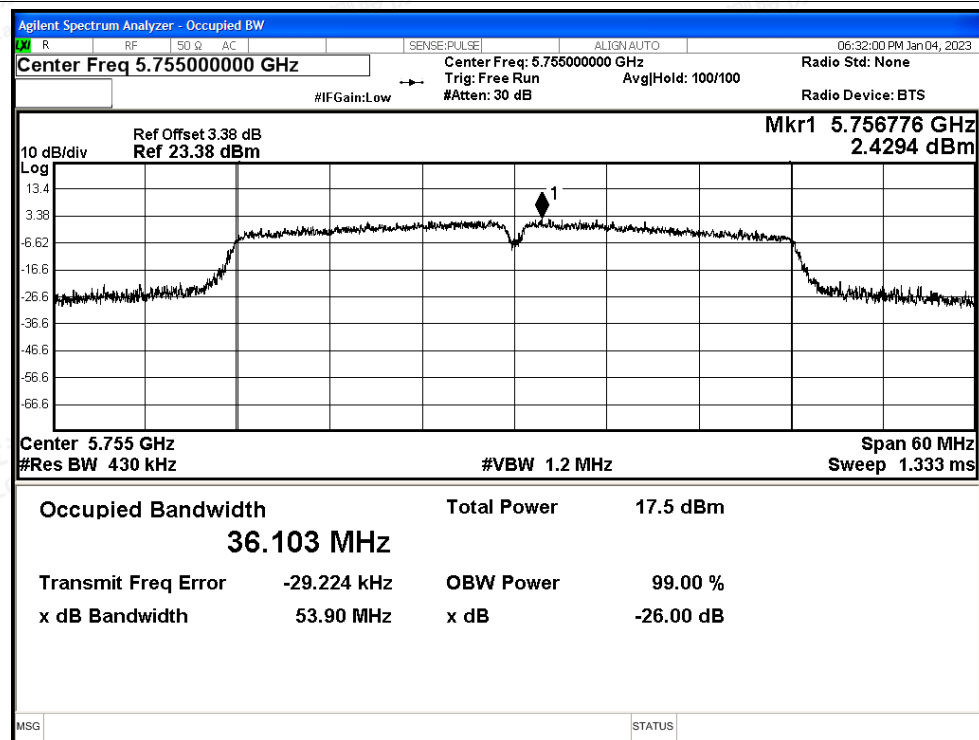


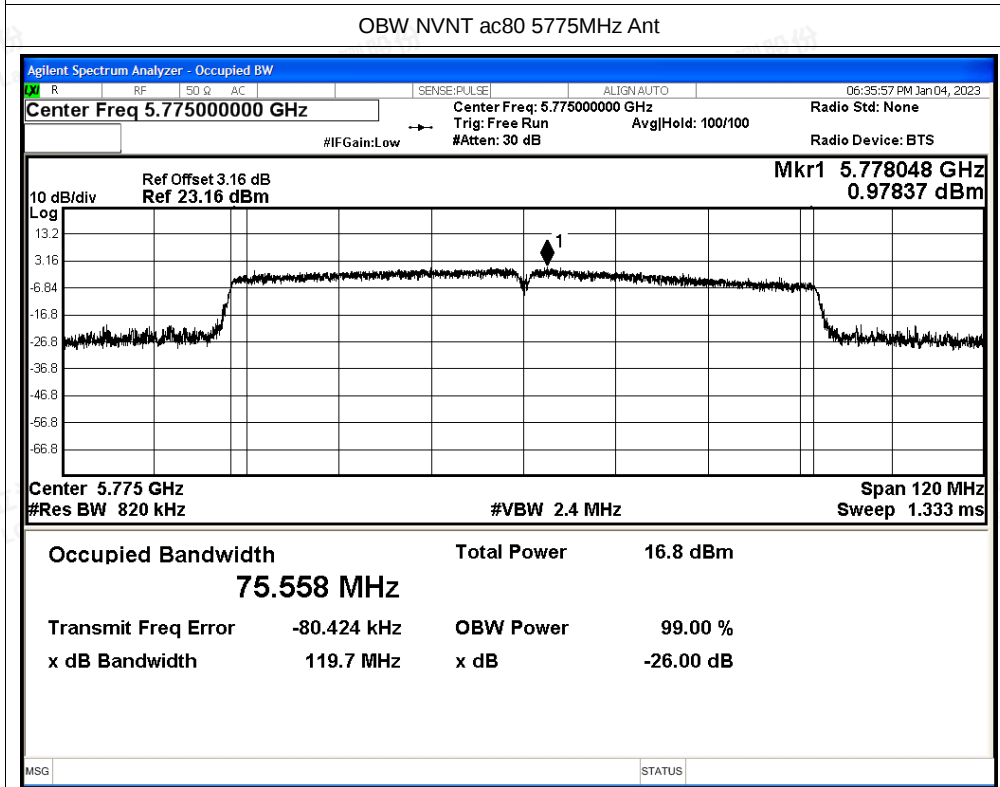
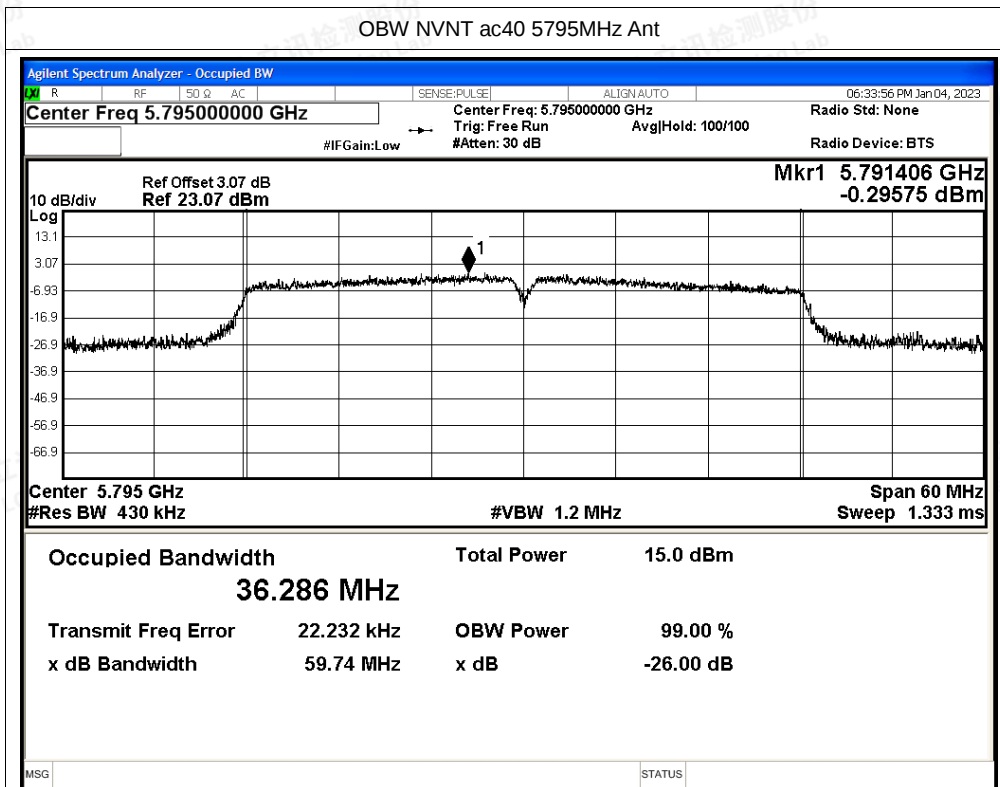


OBW NVNT ac20 5825MHz Ant



OBW NVNT ac40 5755MHz Ant







D.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant	11.34	0.13	11.47	30	Pass
NVNT	a	5785	Ant	11.53	0.13	11.66	30	Pass
NVNT	a	5825	Ant	10.5	0.13	10.63	30	Pass
NVNT	n20	5745	Ant	10.86	0.14	11.00	30	Pass
NVNT	n20	5785	Ant	11.41	0.14	11.55	30	Pass
NVNT	n20	5825	Ant	10.33	0.14	10.47	30	Pass
NVNT	n40	5755	Ant	11.61	0.29	11.90	30	Pass
NVNT	n40	5795	Ant	10.77	0.28	11.05	30	Pass
NVNT	ac20	5745	Ant	11.42	0.14	11.56	30	Pass
NVNT	ac20	5785	Ant	10.71	0.14	10.85	30	Pass
NVNT	ac20	5825	Ant	10.35	0.14	10.49	30	Pass
NVNT	ac40	5755	Ant	11.57	0.28	11.85	30	Pass
NVNT	ac40	5795	Ant	10.73	0.28	11.01	30	Pass
NVNT	ac80	5775	Ant	10.86	0.55	11.41	30	Pass



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D.4 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	Ant	-3.62	0.13	-3.49	30	Pass
NVNT	a	5785	Ant	-3.6	0.13	-3.47	30	Pass
NVNT	a	5825	Ant	-4.78	0.13	-4.65	30	Pass
NVNT	n20	5745	Ant	-4.58	0.14	-4.44	30	Pass
NVNT	n20	5785	Ant	-2.97	0.14	-2.83	30	Pass
NVNT	n20	5825	Ant	-3.98	0.14	-3.84	30	Pass
NVNT	n40	5755	Ant	-7.33	0.29	-7.04	30	Pass
NVNT	n40	5795	Ant	-7.38	0.28	-7.1	30	Pass
NVNT	ac20	5745	Ant	-3.81	0.14	-3.67	30	Pass
NVNT	ac20	5785	Ant	-4.83	0.14	-4.69	30	Pass
NVNT	ac20	5825	Ant	-4.21	0.14	-4.07	30	Pass
NVNT	ac40	5755	Ant	-7.6	0.28	-7.32	30	Pass
NVNT	ac40	5795	Ant	-9.02	0.28	-8.74	30	Pass
NVNT	ac80	5775	Ant	-12.3	0.55	-11.75	30	Pass

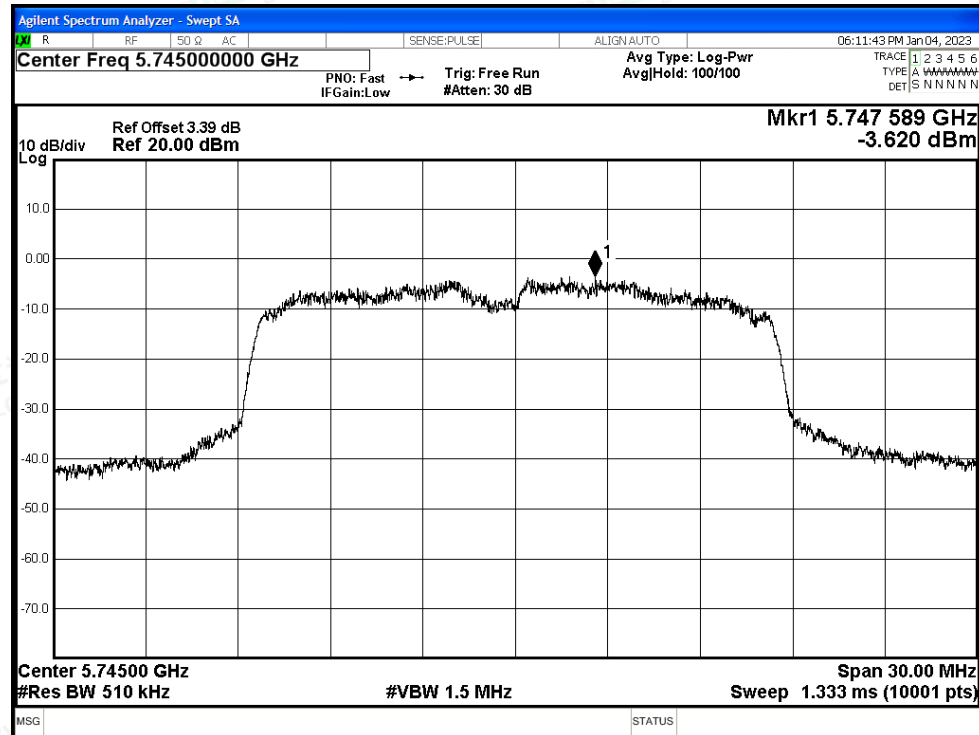


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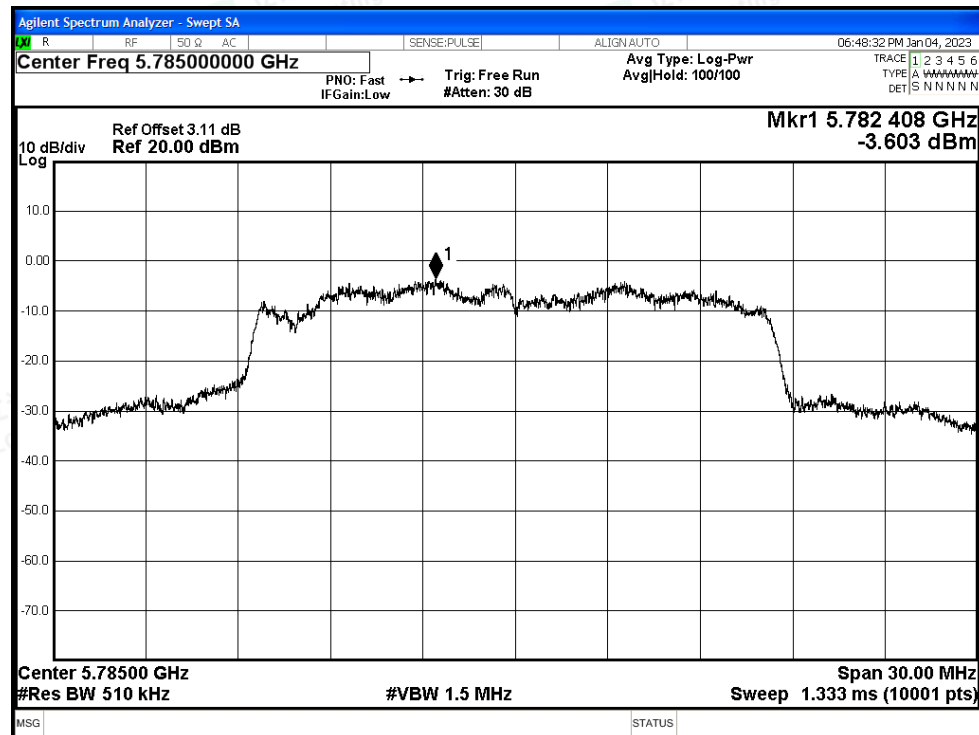


Test Graphs

PSD NVNT a 5745MHz Ant

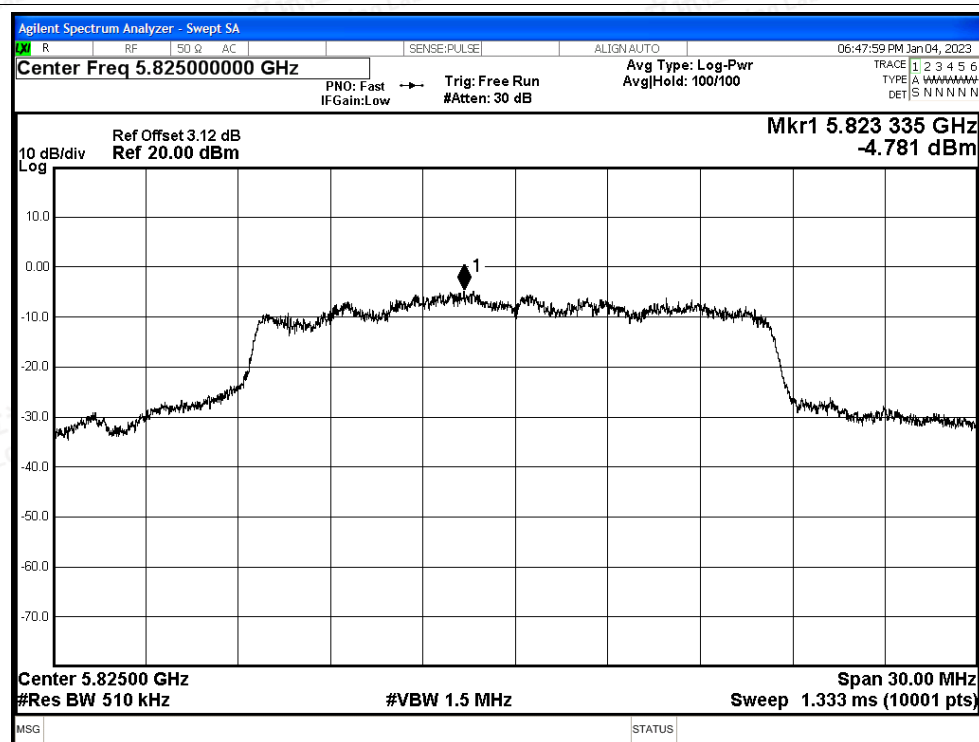


PSD NVNT a 5785MHz Ant

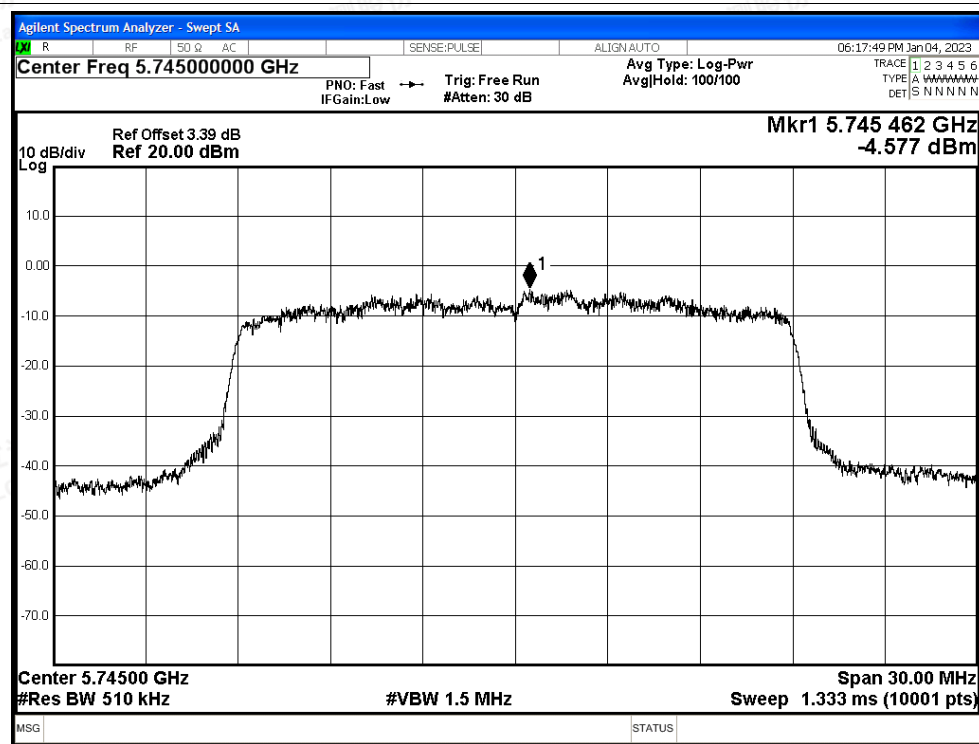




PSD NVNT a 5825MHz Ant

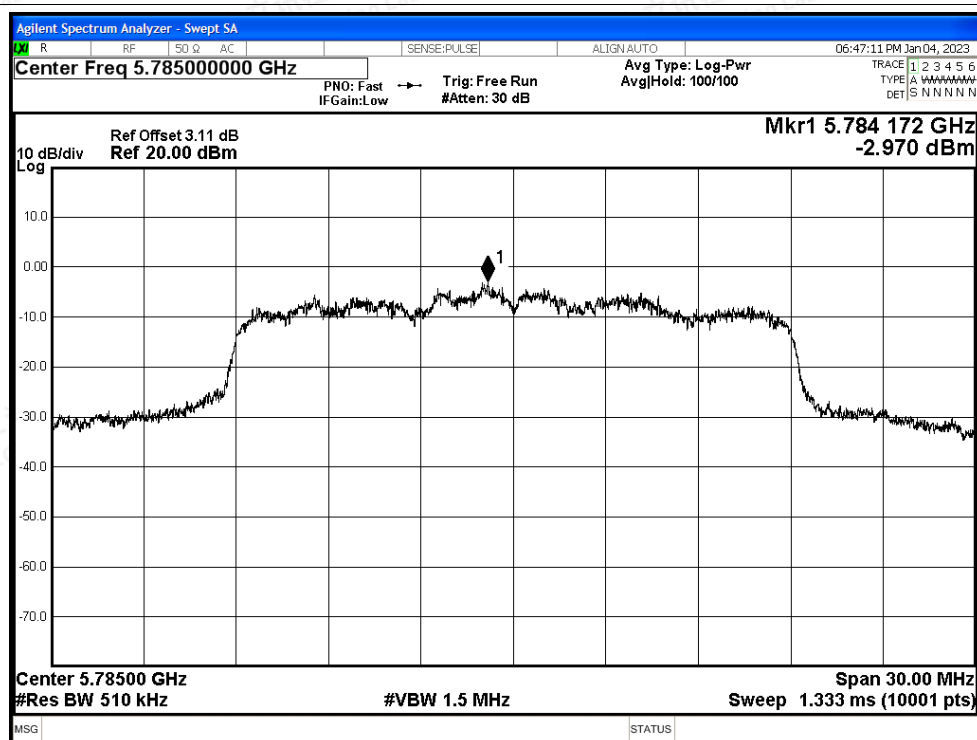


PSD NVNT n20 5745MHz Ant

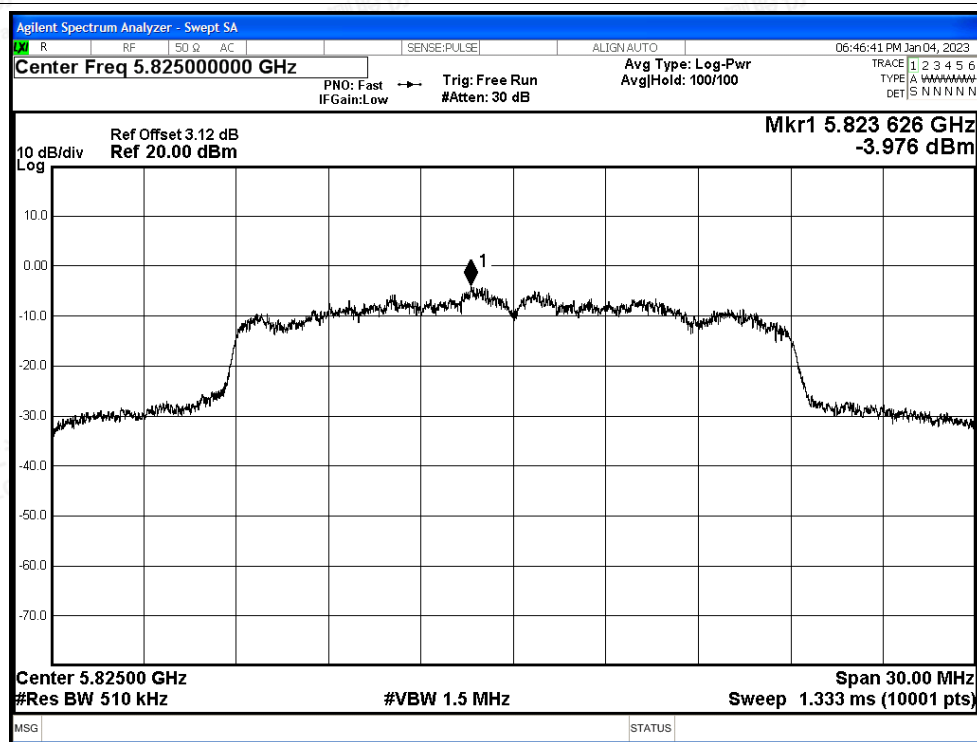


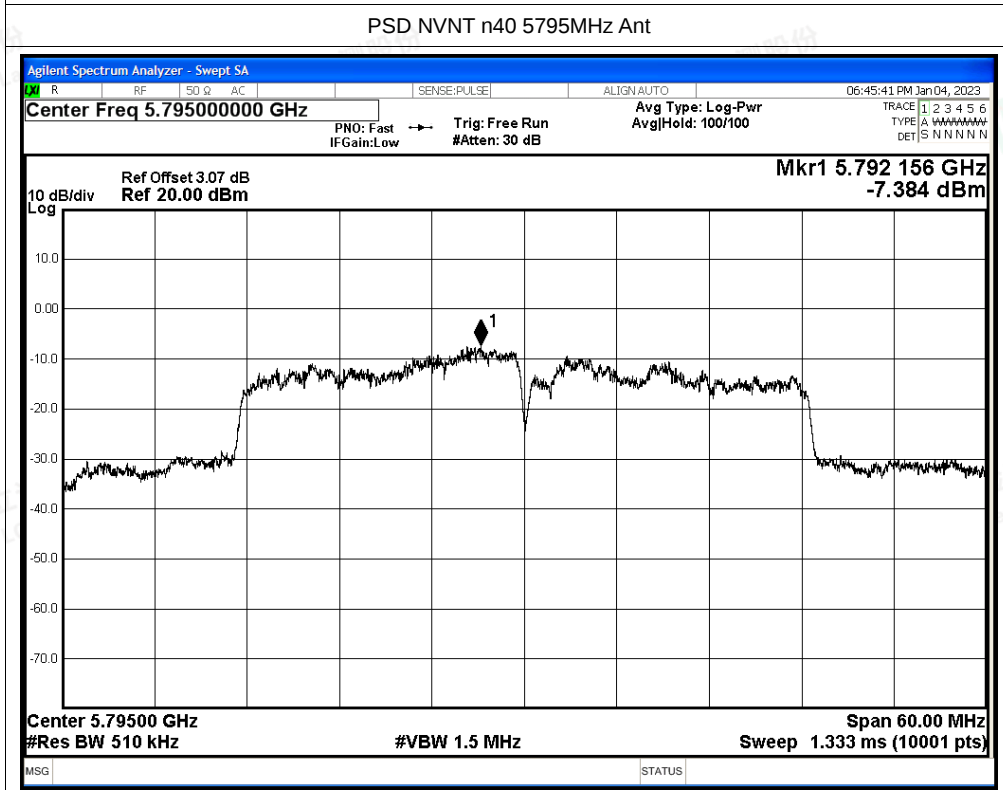
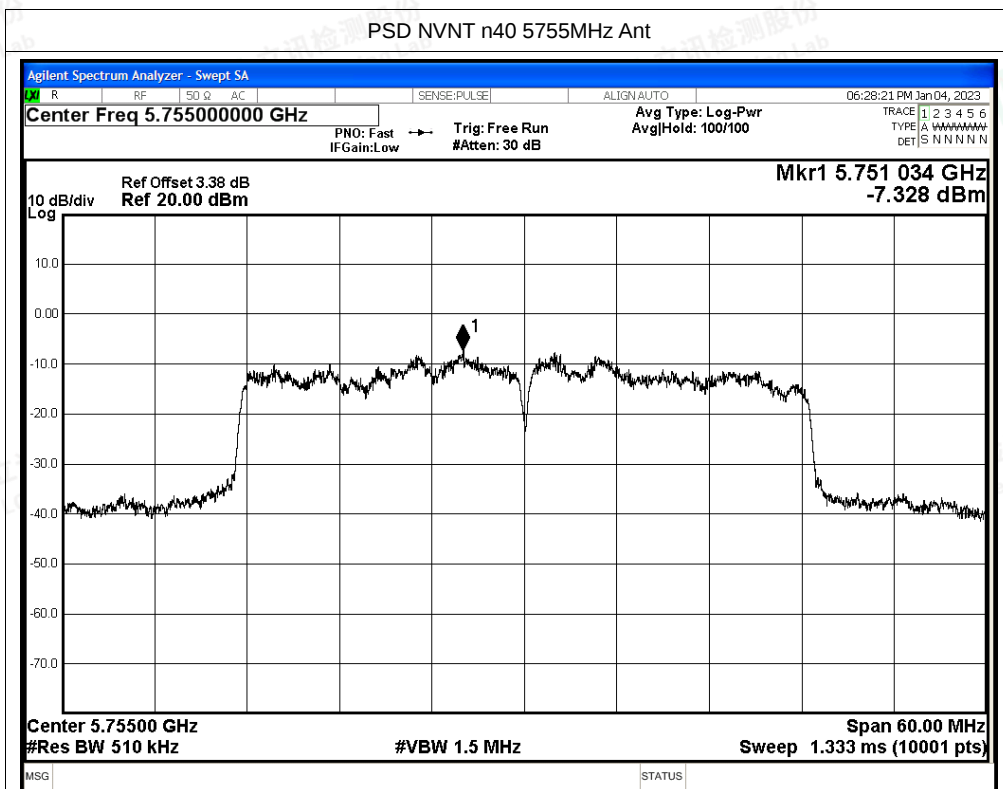


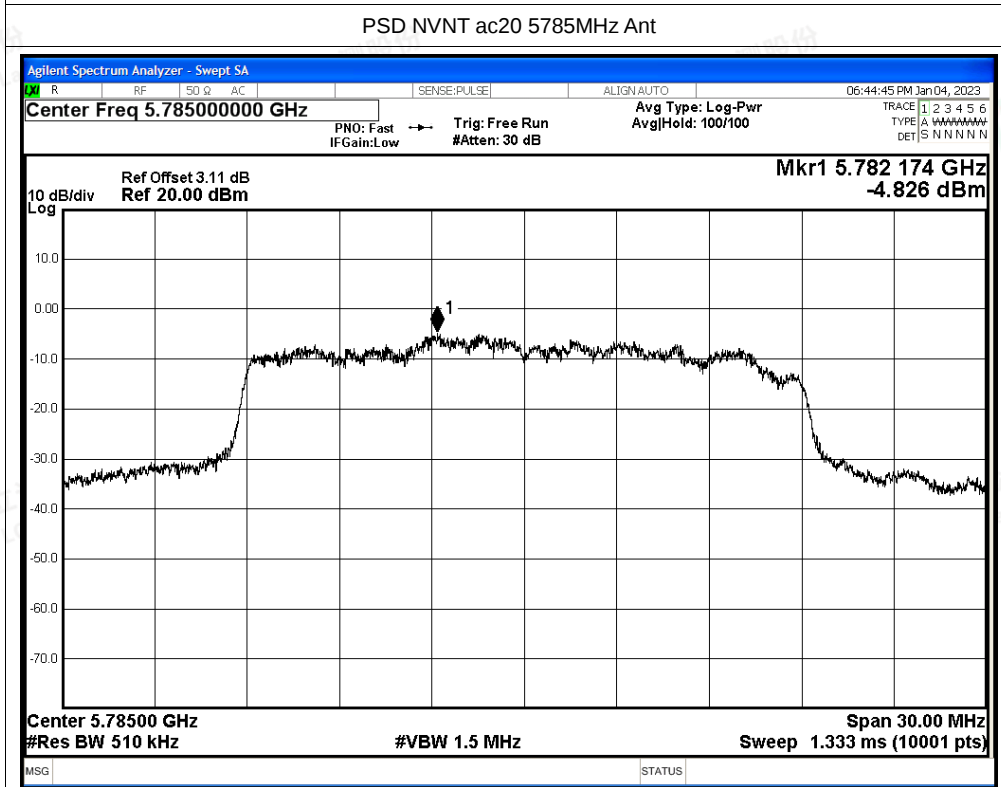
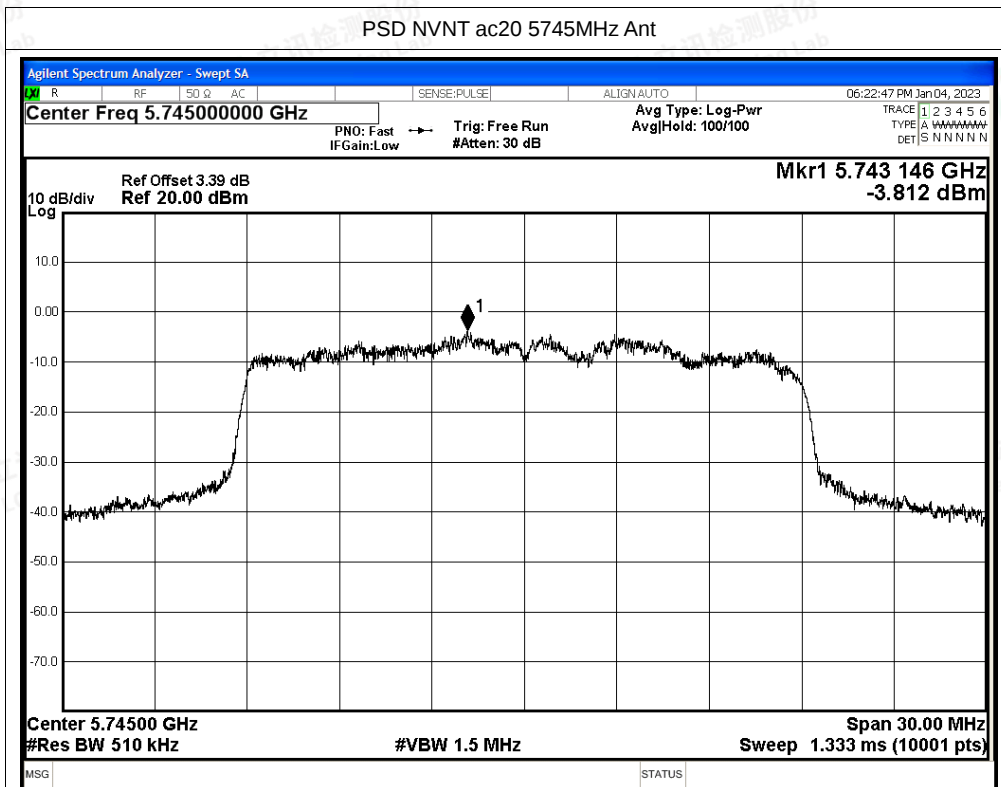
PSD NVNT n20 5785MHz Ant

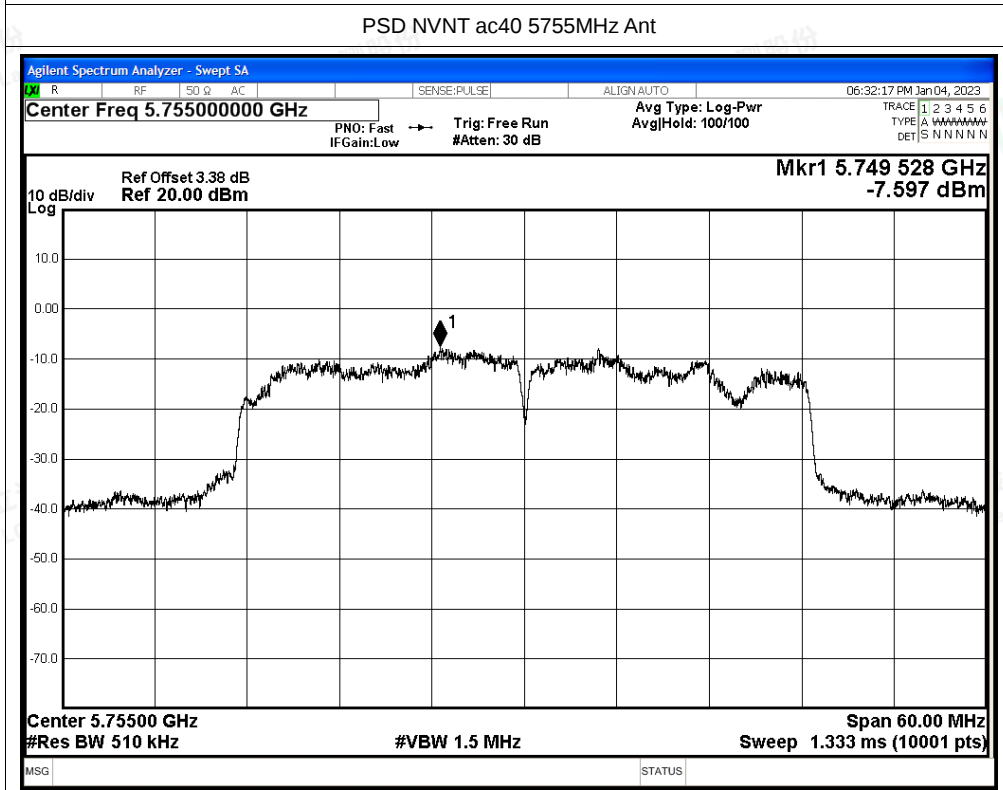
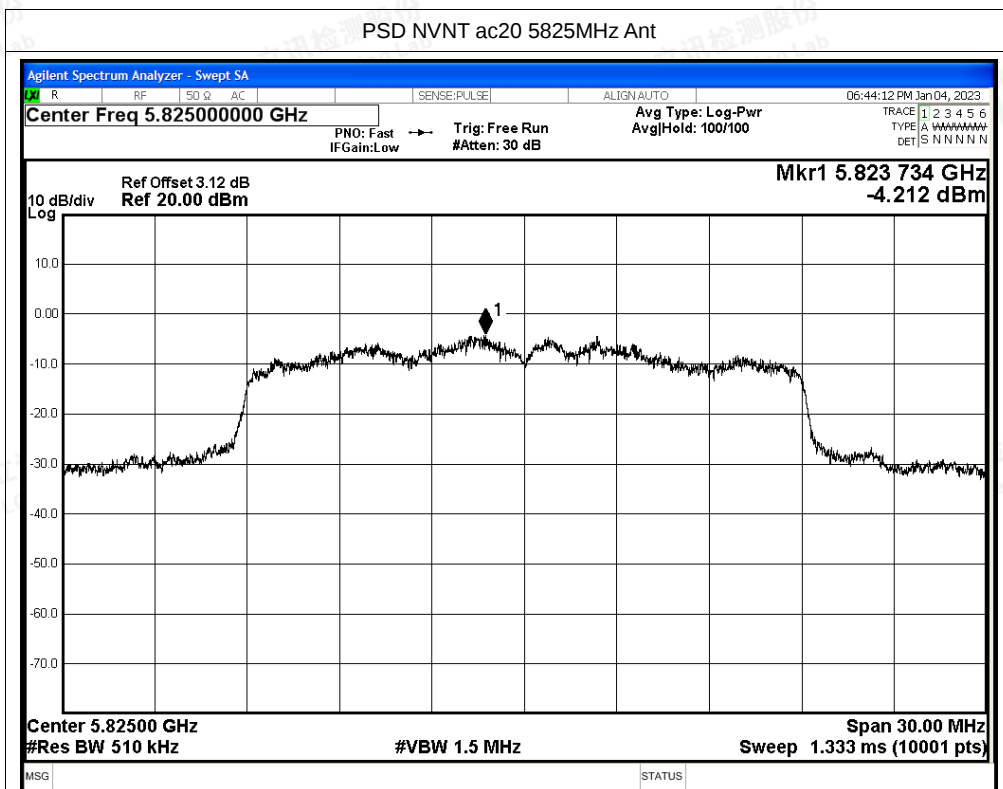


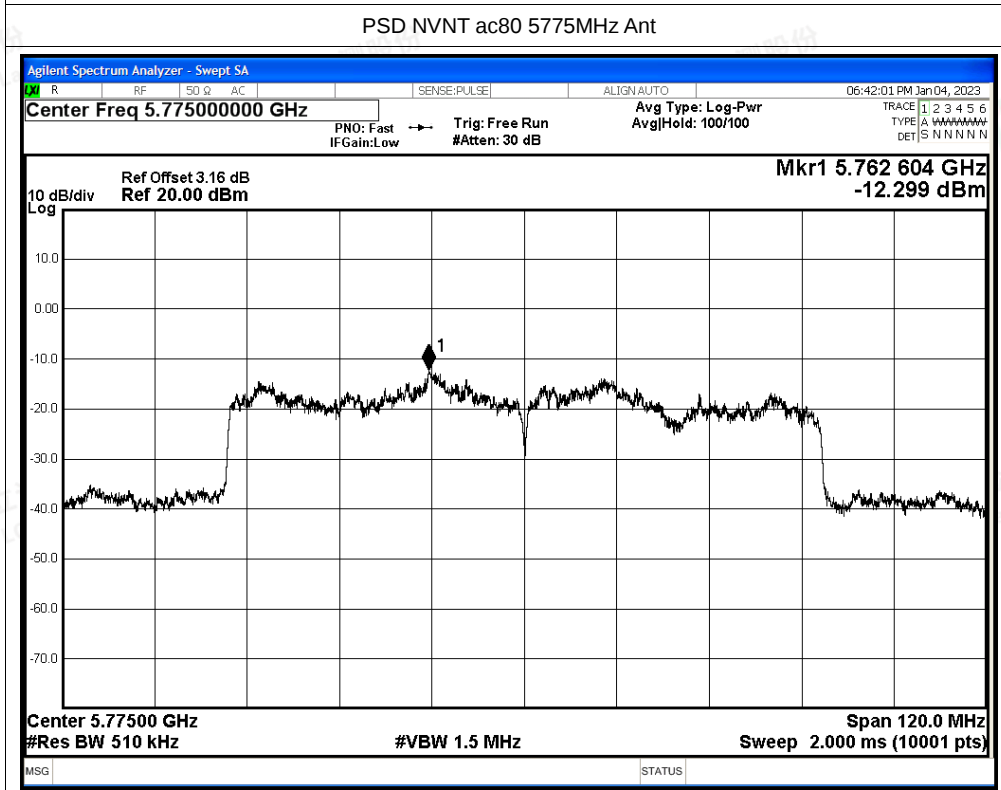
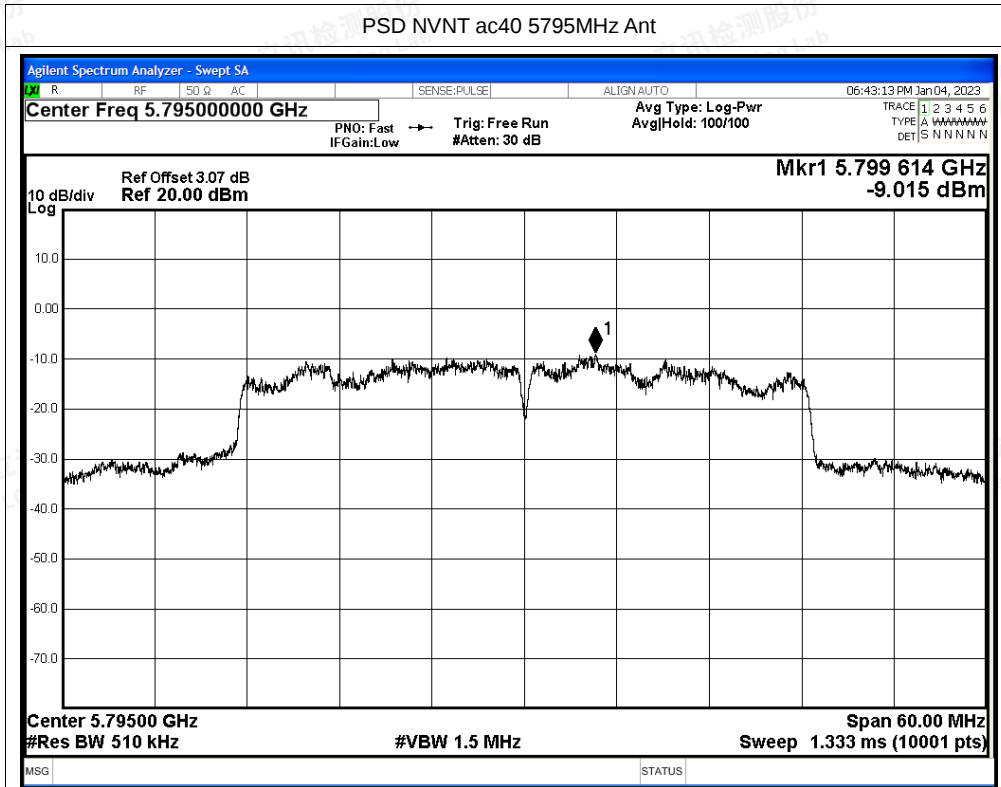
PSD NVNT n20 5825MHz Ant













D.5 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant	5650	-48.78	3.20	-45.58	Peak	-27	Pass
NVNT	a	5745	Ant	5650	-57.5	3.20	-54.3	Average	-27	Pass
NVNT	a	5745	Ant	5700	-43.94	3.20	-40.74	Peak	10	Pass
NVNT	a	5745	Ant	5700	-53.84	3.20	-50.64	Average	10	Pass
NVNT	a	5745	Ant	5720	-34.51	3.20	-31.31	Peak	15.6	Pass
NVNT	a	5745	Ant	5720	-46.78	3.20	-43.58	Average	15.6	Pass
NVNT	a	5745	Ant	5725	-26.15	3.20	-22.95	Peak	27	Pass
NVNT	a	5745	Ant	5725	-42.78	3.20	-39.58	Average	27	Pass
NVNT	a	5825	Ant	5850	-36.83	3.20	-33.63	Peak	27	Pass
NVNT	a	5825	Ant	5850	-49.11	3.20	-45.91	Average	27	Pass
NVNT	a	5825	Ant	5855	-40.77	3.20	-37.57	Peak	15.6	Pass
NVNT	a	5825	Ant	5855	-51.67	3.20	-48.47	Average	15.6	Pass
NVNT	a	5825	Ant	5875	-46.12	3.20	-42.92	Peak	10	Pass
NVNT	a	5825	Ant	5875	-56.77	3.20	-53.57	Average	10	Pass
NVNT	a	5825	Ant	5925	-48.43	3.20	-45.23	Peak	-27	Pass
NVNT	a	5825	Ant	5925	-58.41	3.20	-55.21	Average	-27	Pass
NVNT	n20	5745	Ant	5650	-47.1	3.20	-43.9	Peak	-27	Pass
NVNT	n20	5745	Ant	5650	-57.39	3.20	-54.19	Average	-27	Pass
NVNT	n20	5745	Ant	5700	-41.58	3.20	-38.38	Peak	10	Pass
NVNT	n20	5745	Ant	5700	-53.96	3.20	-50.76	Average	10	Pass
NVNT	n20	5745	Ant	5720	-33.28	3.20	-30.08	Peak	15.6	Pass
NVNT	n20	5745	Ant	5720	-46.76	3.20	-43.56	Average	15.6	Pass
NVNT	n20	5745	Ant	5725	-27.47	3.20	-24.27	Peak	27	Pass
NVNT	n20	5745	Ant	5725	-43.41	3.20	-40.21	Average	27	Pass
NVNT	n20	5825	Ant	5850	-32.8	3.20	-29.6	Peak	27	Pass
NVNT	n20	5825	Ant	5850	-44.45	3.20	-41.25	Average	27	Pass
NVNT	n20	5825	Ant	5855	-34.56	3.20	-31.36	Peak	15.6	Pass
NVNT	n20	5825	Ant	5855	-47.94	3.20	-44.74	Average	15.6	Pass
NVNT	n20	5825	Ant	5875	-46.65	3.20	-43.45	Peak	10	Pass
NVNT	n20	5825	Ant	5875	-56.16	3.20	-52.96	Average	10	Pass
NVNT	n20	5825	Ant	5925	-48.8	3.20	-45.6	Peak	-27	Pass
NVNT	n20	5825	Ant	5925	-58.28	3.20	-55.08	Average	-27	Pass
NVNT	n40	5755	Ant	5650	-44.15	3.20	-40.95	Peak	-27	Pass
NVNT	n40	5755	Ant	5650	-54.71	3.20	-51.51	Average	-27	Pass
NVNT	n40	5755	Ant	5700	-29.68	3.20	-26.48	Peak	10	Pass
NVNT	n40	5755	Ant	5700	-43.49	3.20	-40.29	Average	10	Pass
NVNT	n40	5755	Ant	5720	-25.57	3.20	-22.37	Peak	15.6	Pass





NVNT	n40	5755	Ant	5720	-35.91	3.20	-32.71	Average	15.6	Pass
NVNT	n40	5755	Ant	5725	-18.28	3.20	-15.08	Peak	27	Pass
NVNT	n40	5755	Ant	5725	-34.13	3.20	-30.93	Average	27	Pass
NVNT	n40	5795	Ant	5850	-37.25	3.20	-34.05	Peak	27	Pass
NVNT	n40	5795	Ant	5850	-48.01	3.20	-44.81	Average	27	Pass
NVNT	n40	5795	Ant	5855	-37.57	3.20	-34.37	Peak	15.6	Pass
NVNT	n40	5795	Ant	5855	-49.55	3.20	-46.35	Average	15.6	Pass
NVNT	n40	5795	Ant	5875	-43.81	3.20	-40.61	Peak	10	Pass
NVNT	n40	5795	Ant	5875	-54.63	3.20	-51.43	Average	10	Pass
NVNT	n40	5795	Ant	5925	-49.82	3.20	-46.62	Peak	-27	Pass
NVNT	n40	5795	Ant	5925	-57.5	3.20	-54.3	Average	-27	Pass
NVNT	ac20	5745	Ant	5650	-47.74	3.20	-44.54	Peak	-27	Pass
NVNT	ac20	5745	Ant	5650	-57.41	3.20	-54.21	Average	-27	Pass
NVNT	ac20	5745	Ant	5700	-38.94	3.20	-35.74	Peak	10	Pass
NVNT	ac20	5745	Ant	5700	-52.06	3.20	-48.86	Average	10	Pass
NVNT	ac20	5745	Ant	5720	-29.21	3.20	-26.01	Peak	15.6	Pass
NVNT	ac20	5745	Ant	5720	-42.05	3.20	-38.85	Average	15.6	Pass
NVNT	ac20	5745	Ant	5725	-25.82	3.20	-22.62	Peak	27	Pass
NVNT	ac20	5745	Ant	5725	-38.78	3.20	-35.58	Average	27	Pass
NVNT	ac20	5825	Ant	5850	-30.84	3.20	-27.64	Peak	27	Pass
NVNT	ac20	5825	Ant	5850	-42.61	3.20	-39.41	Average	27	Pass
NVNT	ac20	5825	Ant	5855	-35.28	3.20	-32.08	Peak	15.6	Pass
NVNT	ac20	5825	Ant	5855	-45.93	3.20	-42.73	Average	15.6	Pass
NVNT	ac20	5825	Ant	5875	-45.82	3.20	-42.62	Peak	10	Pass
NVNT	ac20	5825	Ant	5875	-55.52	3.20	-52.32	Average	10	Pass
NVNT	ac20	5825	Ant	5925	-48.54	3.20	-45.34	Peak	-27	Pass
NVNT	ac20	5825	Ant	5925	-58.42	3.20	-55.22	Average	-27	Pass
NVNT	ac40	5755	Ant	5650	-43.38	3.20	-40.18	Peak	-27	Pass
NVNT	ac40	5755	Ant	5650	-54.84	3.20	-51.64	Average	-27	Pass
NVNT	ac40	5755	Ant	5700	-32.69	3.20	-29.49	Peak	10	Pass
NVNT	ac40	5755	Ant	5700	-43.82	3.20	-40.62	Average	10	Pass
NVNT	ac40	5755	Ant	5720	-23.08	3.20	-19.88	Peak	15.6	Pass
NVNT	ac40	5755	Ant	5720	-35.53	3.20	-32.33	Average	15.6	Pass
NVNT	ac40	5755	Ant	5725	-20.21	3.20	-17.01	Peak	27	Pass
NVNT	ac40	5755	Ant	5725	-33.93	3.20	-30.73	Average	27	Pass
NVNT	ac40	5795	Ant	5850	-35.24	3.20	-32.04	Peak	27	Pass
NVNT	ac40	5795	Ant	5850	-48.46	3.20	-45.26	Average	27	Pass
NVNT	ac40	5795	Ant	5855	-39.73	3.20	-36.53	Peak	15.6	Pass
NVNT	ac40	5795	Ant	5855	-48.98	3.20	-45.78	Average	15.6	Pass
NVNT	ac40	5795	Ant	5875	-44.07	3.20	-40.87	Peak	10	Pass
NVNT	ac40	5795	Ant	5875	-54.66	3.20	-51.46	Average	10	Pass





NVNT	ac40	5795	Ant	5925	-48.49	3.20	-45.29	Peak	-27	Pass
NVNT	ac40	5795	Ant	5925	-57.76	3.20	-54.56	Average	-27	Pass
NVNT	ac80	5775	Ant	5650	-31.62	3.20	-28.42	Peak	-27	Pass
NVNT	ac80	5775	Ant	5650	-44.72	3.20	-41.52	Average	-27	Pass
NVNT	ac80	5775	Ant	5700	-24.59	3.20	-21.39	Peak	10	Pass
NVNT	ac80	5775	Ant	5700	-36.3	3.20	-33.1	Average	10	Pass
NVNT	ac80	5775	Ant	5720	-23.67	3.20	-20.47	Peak	15.6	Pass
NVNT	ac80	5775	Ant	5720	-34.7	3.20	-31.5	Average	15.6	Pass
NVNT	ac80	5775	Ant	5725	-24.33	3.20	-21.13	Peak	27	Pass
NVNT	ac80	5775	Ant	5725	-34.09	3.20	-30.89	Average	27	Pass
NVNT	ac80	5775	Ant	5850	-27.23	3.20	-24.03	Peak	27	Pass
NVNT	ac80	5775	Ant	5850	-37.1	3.20	-33.9	Average	27	Pass
NVNT	ac80	5775	Ant	5855	-28.39	3.20	-25.19	Peak	15.6	Pass
NVNT	ac80	5775	Ant	5855	-37.52	3.20	-34.32	Average	15.6	Pass
NVNT	ac80	5775	Ant	5875	-32.91	3.20	-29.71	Peak	10	Pass
NVNT	ac80	5775	Ant	5875	-43.23	3.20	-40.03	Average	10	Pass
NVNT	ac80	5775	Ant	5925	-41.01	3.20	-37.81	Peak	-27	Pass
NVNT	ac80	5775	Ant	5925	-50.54	3.20	-47.34	Average	-27	Pass

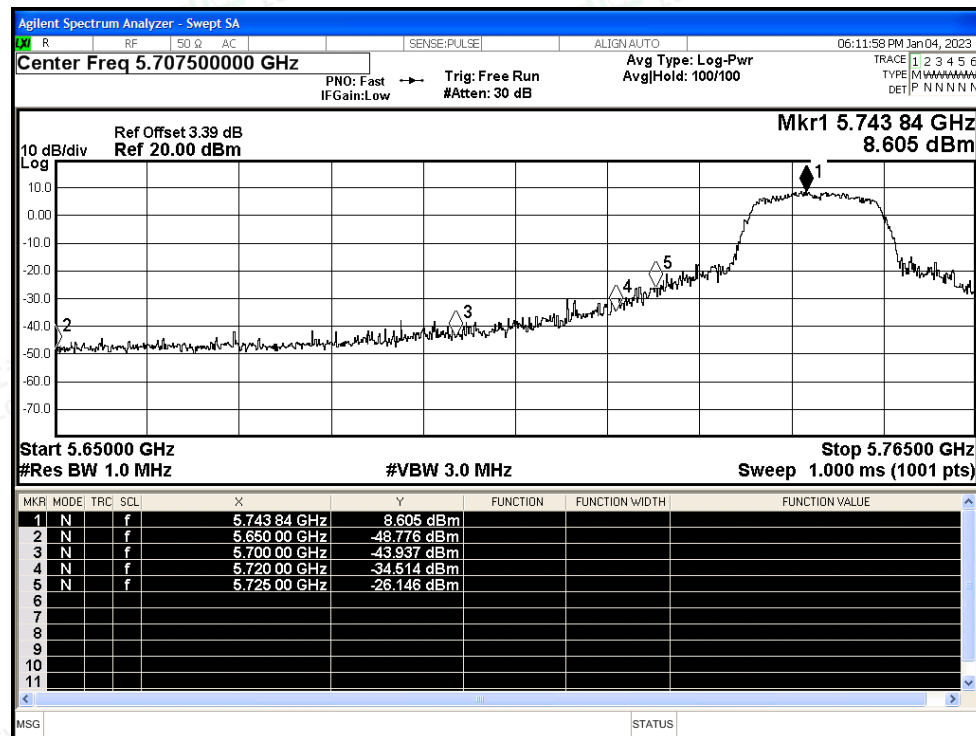


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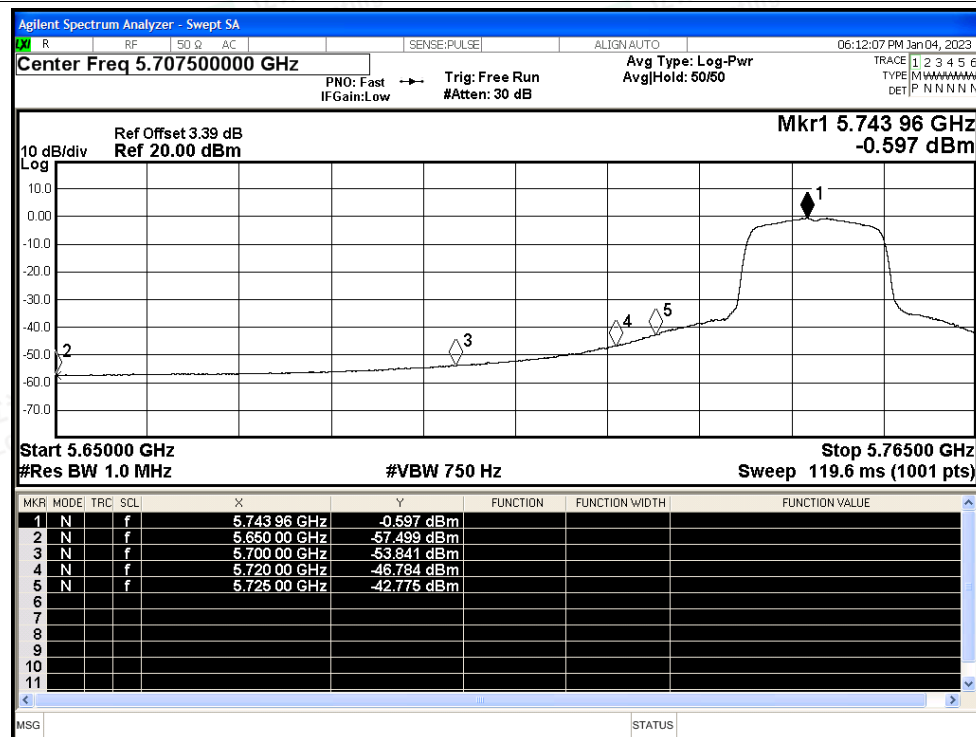


Test Graphs

Restrict Band NVNT a 5745MHz Ant Peak

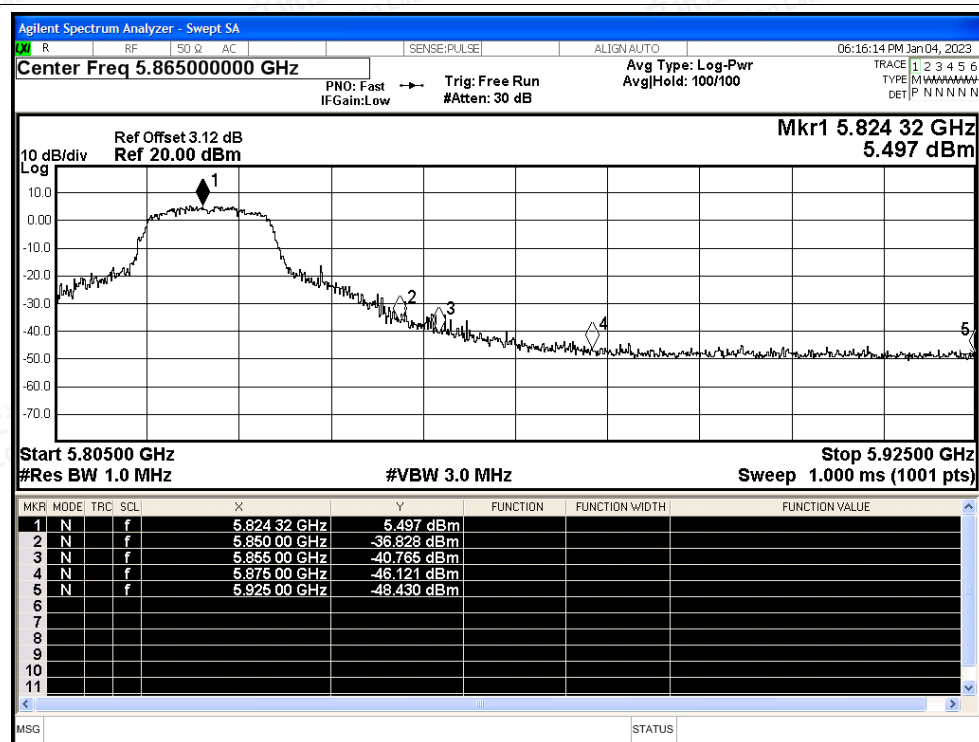


Restrict Band NVNT a 5745MHz Ant Average

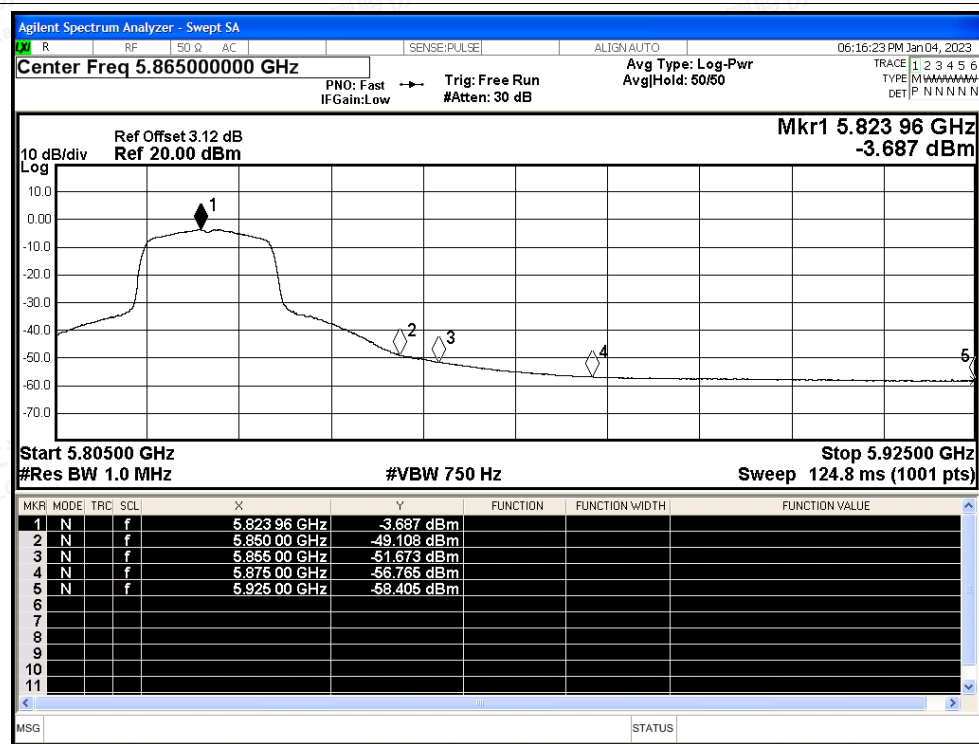




Restrict Band NVNT a 5825MHz Ant Peak

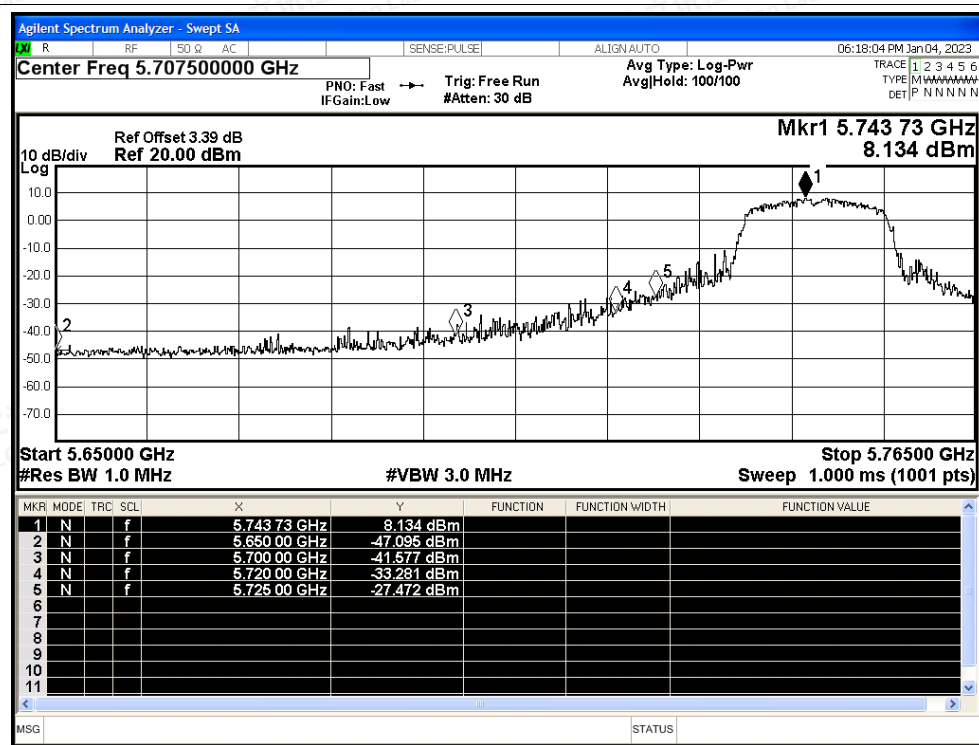


Restrict Band NVNT a 5825MHz Ant Average

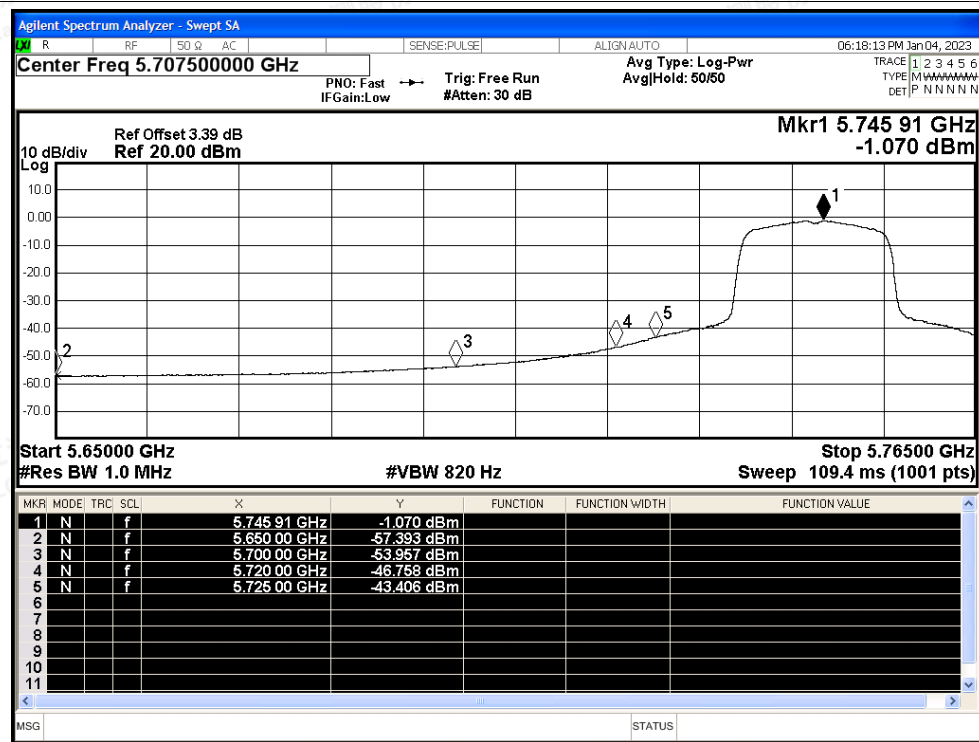




Restrict Band NVNT n20 5745MHz Ant Peak

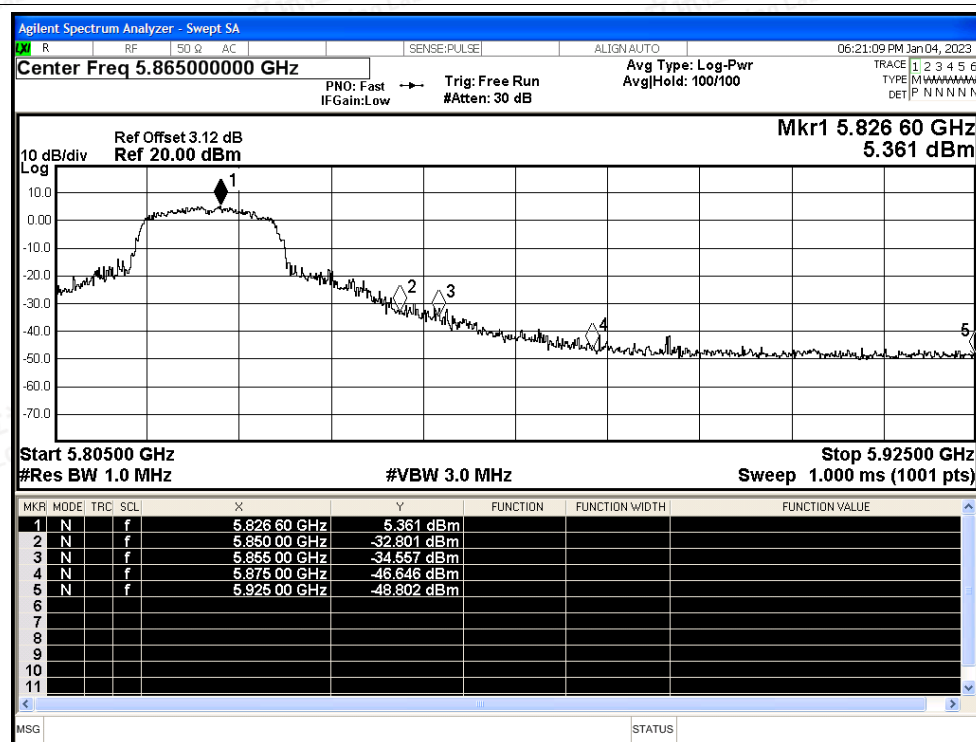


Restrict Band NVNT n20 5745MHz Ant Average

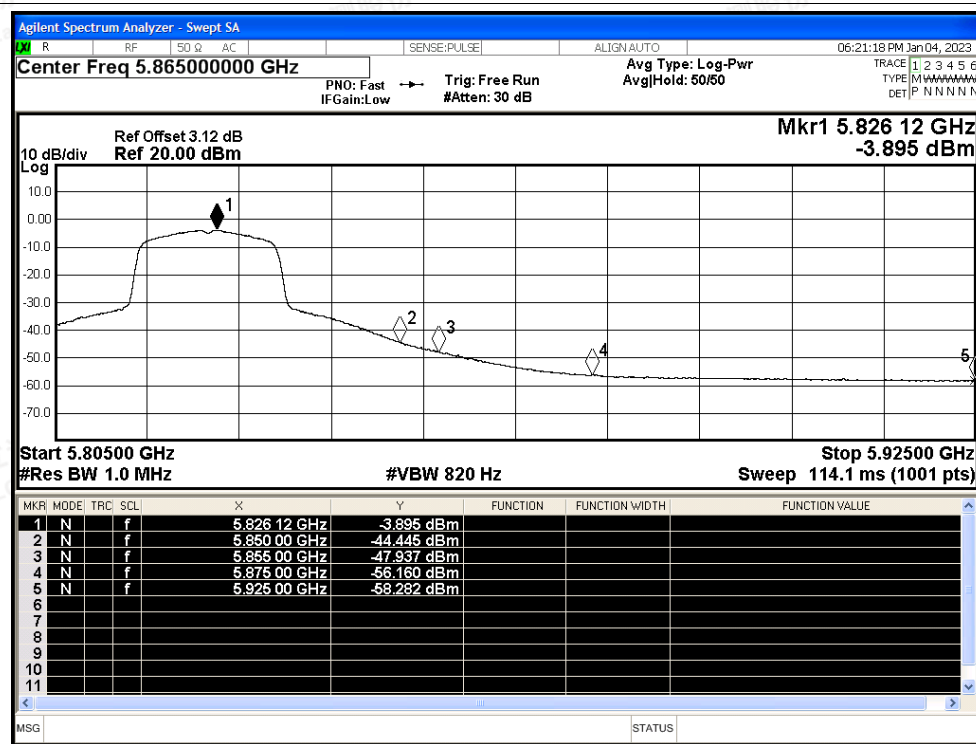




Restrict Band NVNT n20 5825MHz Ant Peak

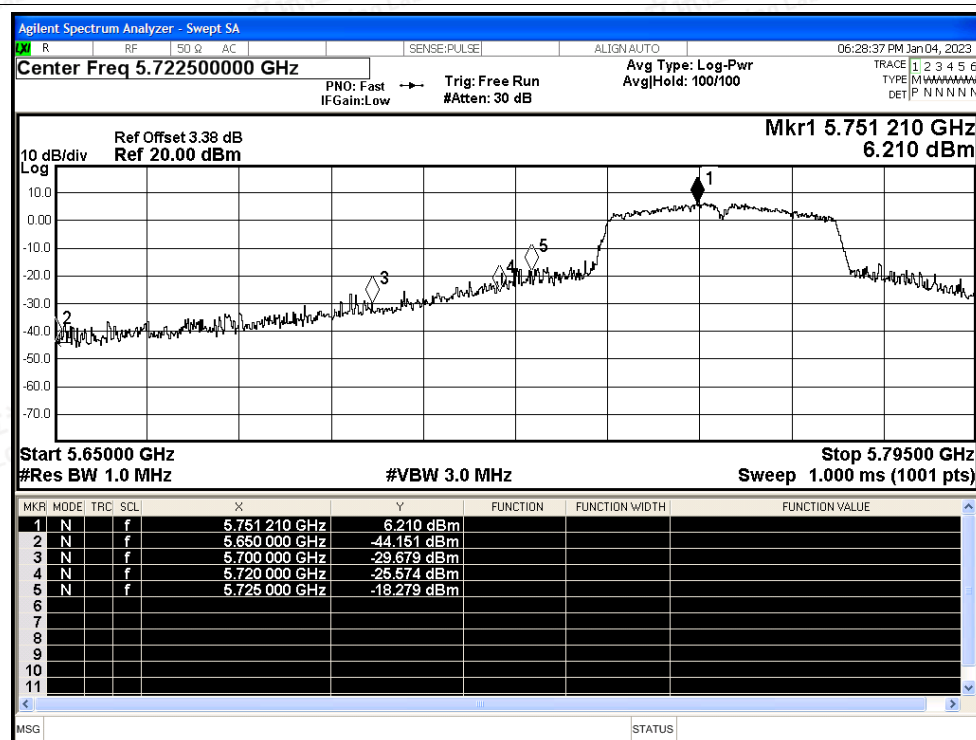


Restrict Band NVNT n20 5825MHz Ant Average

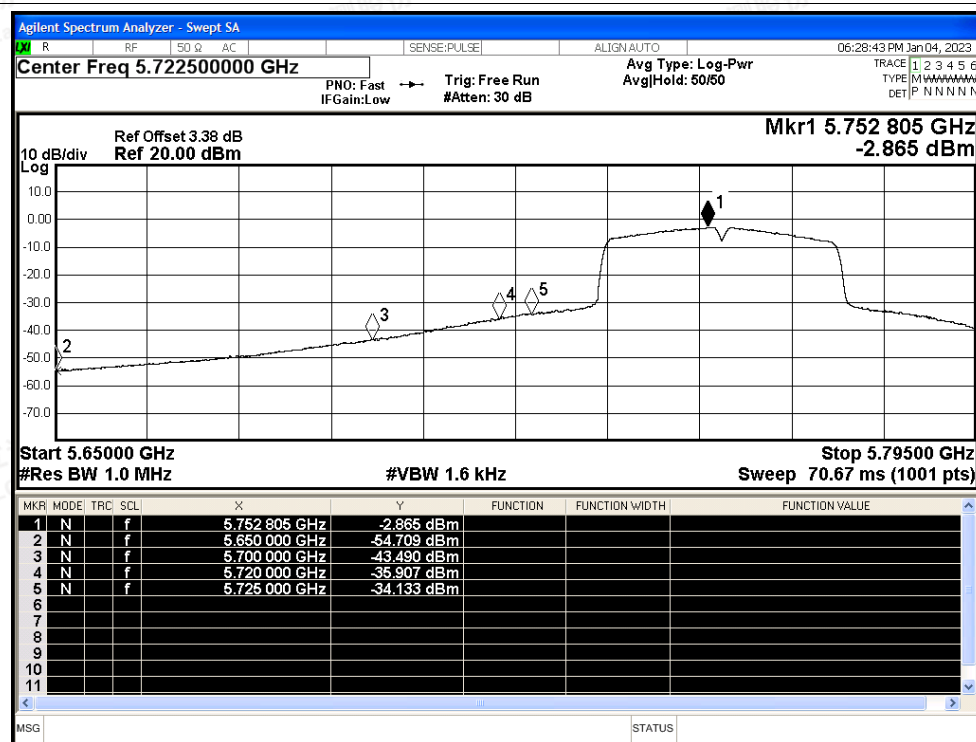




Restrict Band NVNT n40 5755MHz Ant Peak

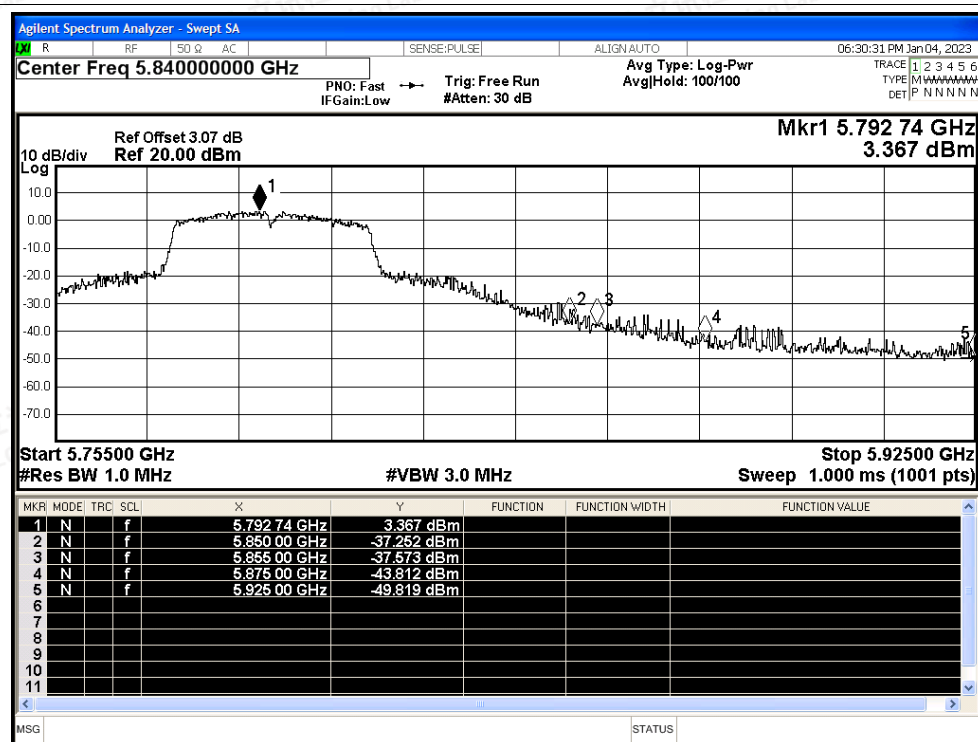


Restrict Band NVNT n40 5755MHz Ant Average

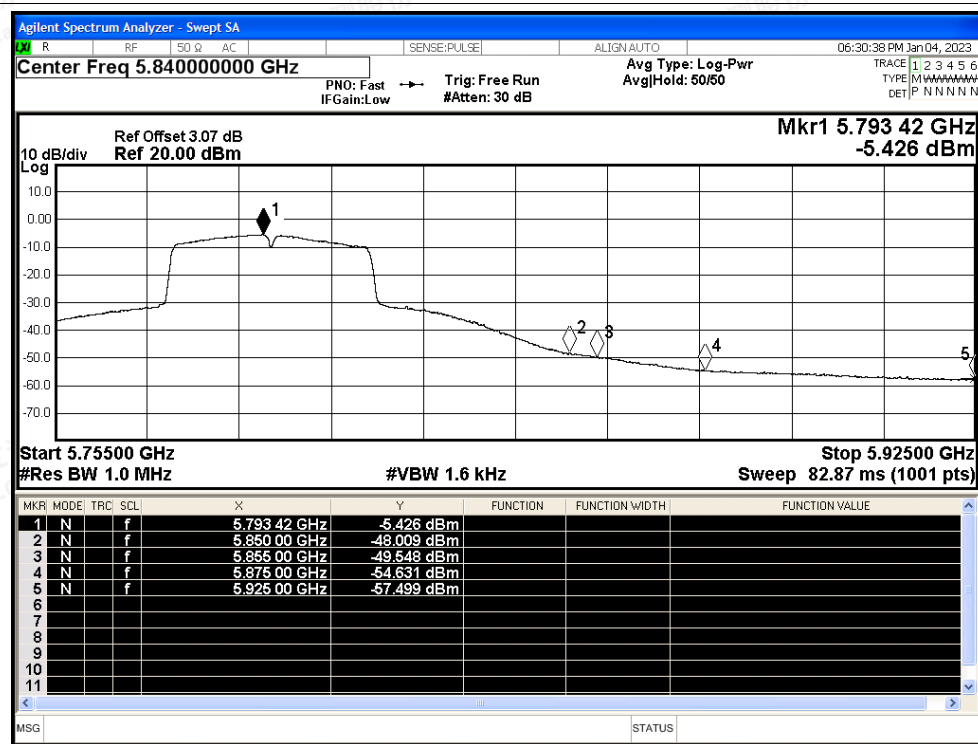




Restrict Band NVNT n40 5795MHz Ant Peak

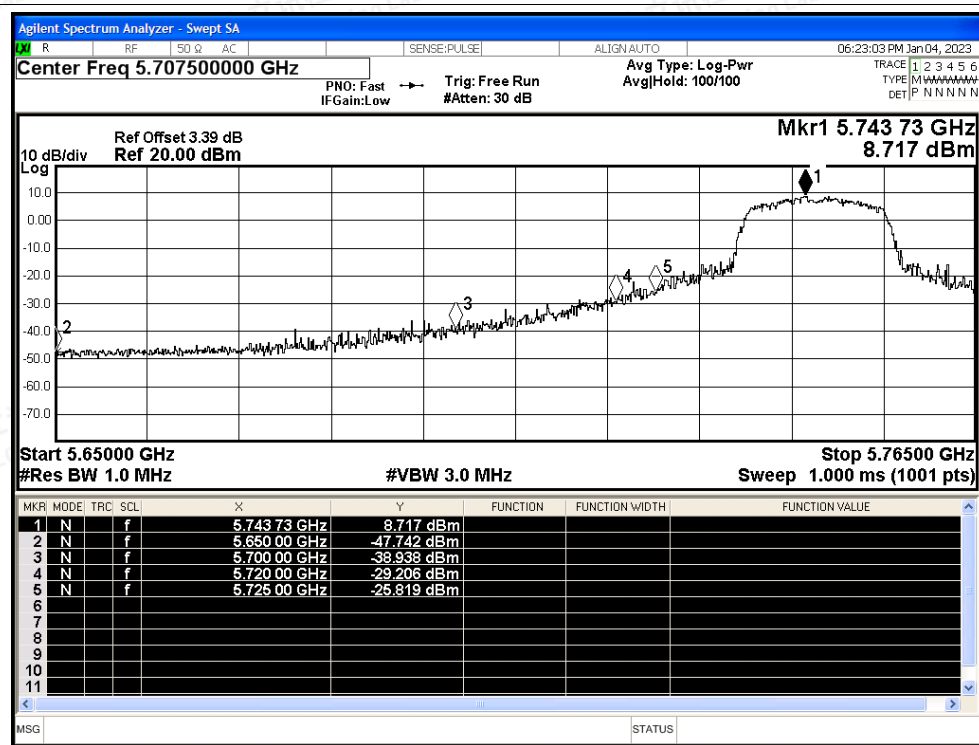


Restrict Band NVNT n40 5795MHz Ant Average

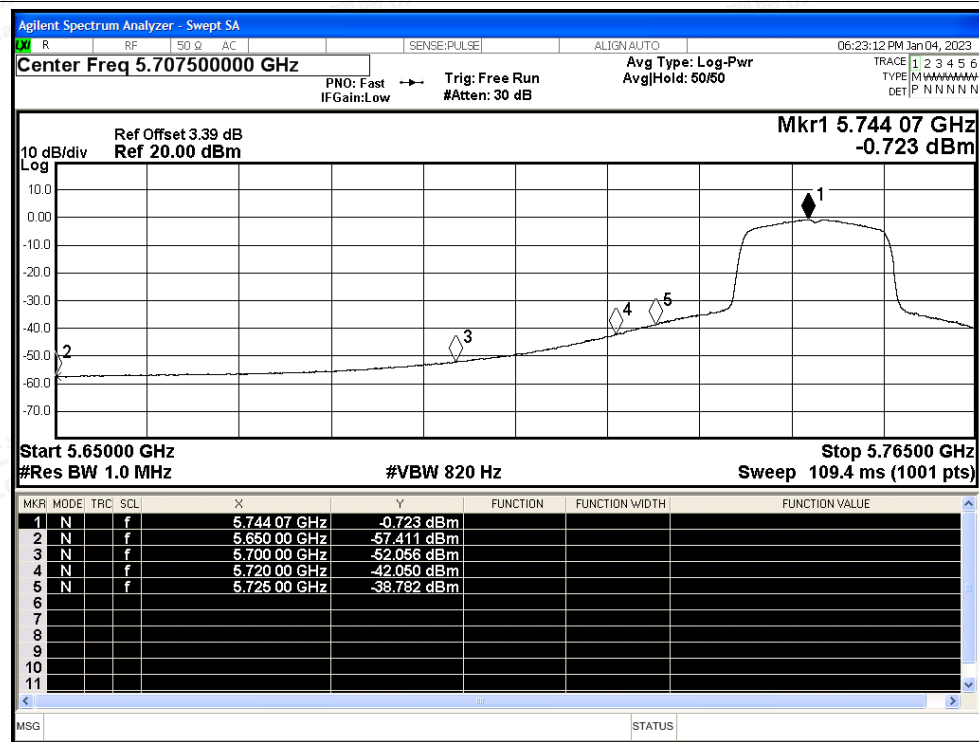




Restrict Band NVNT ac20 5745MHz Ant Peak

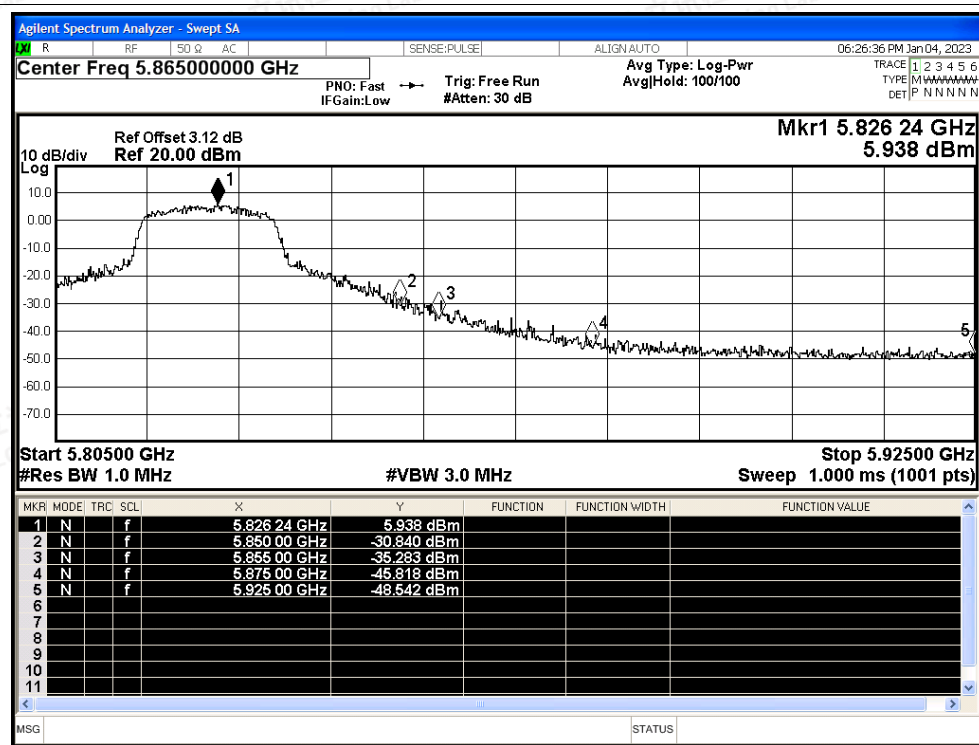


Restrict Band NVNT ac20 5745MHz Ant Average

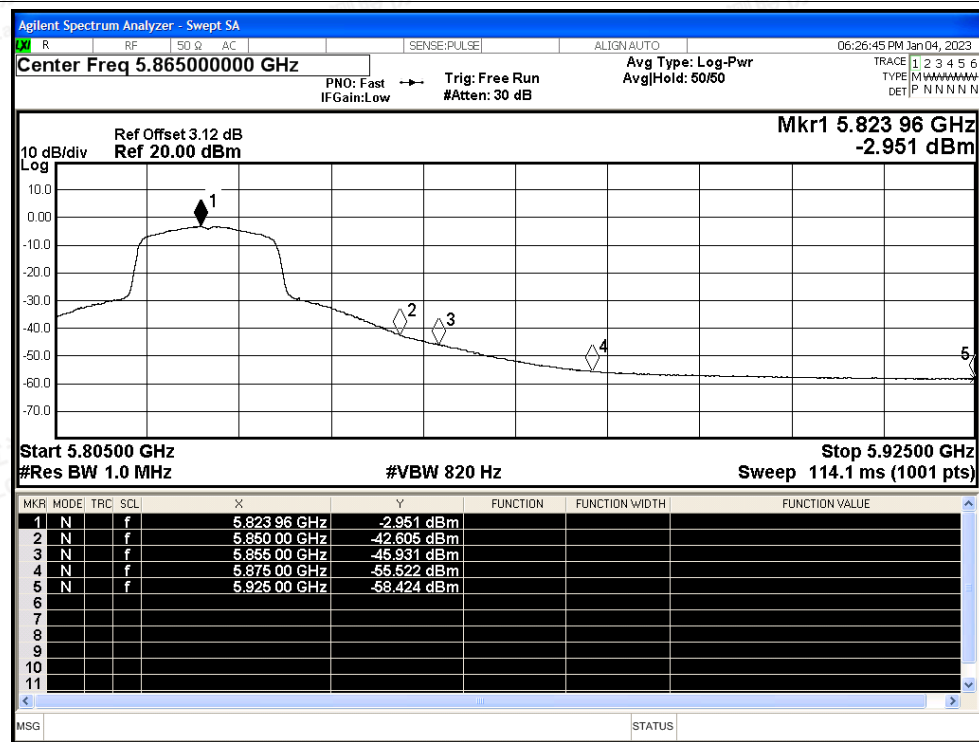




Restrict Band NVNT ac20 5825MHz Ant Peak



Restrict Band NVNT ac20 5825MHz Ant Average



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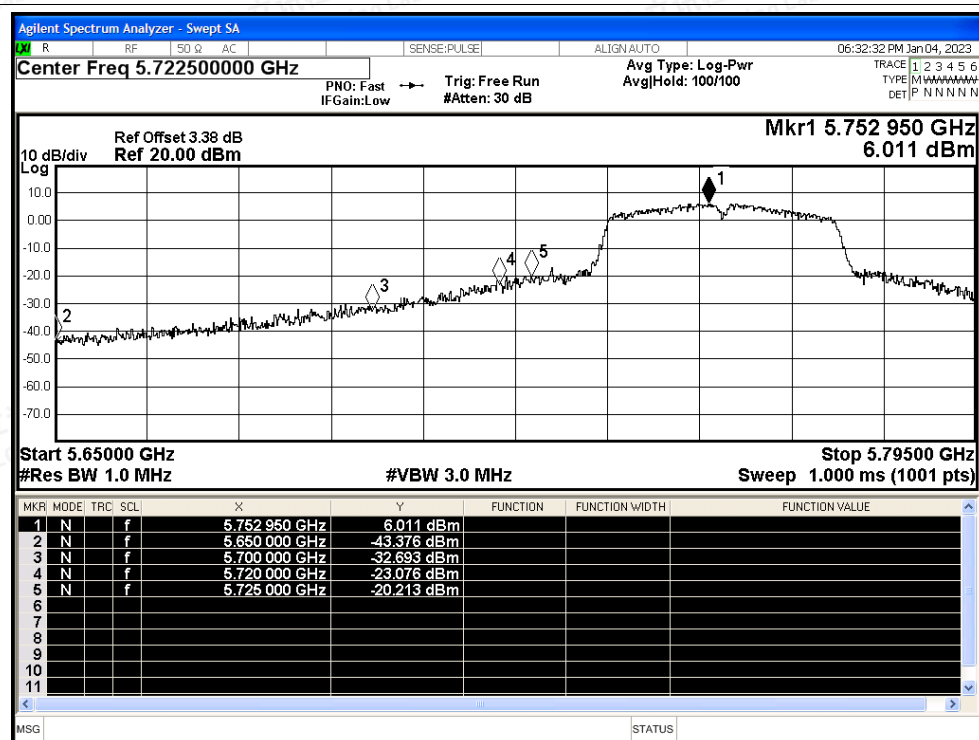
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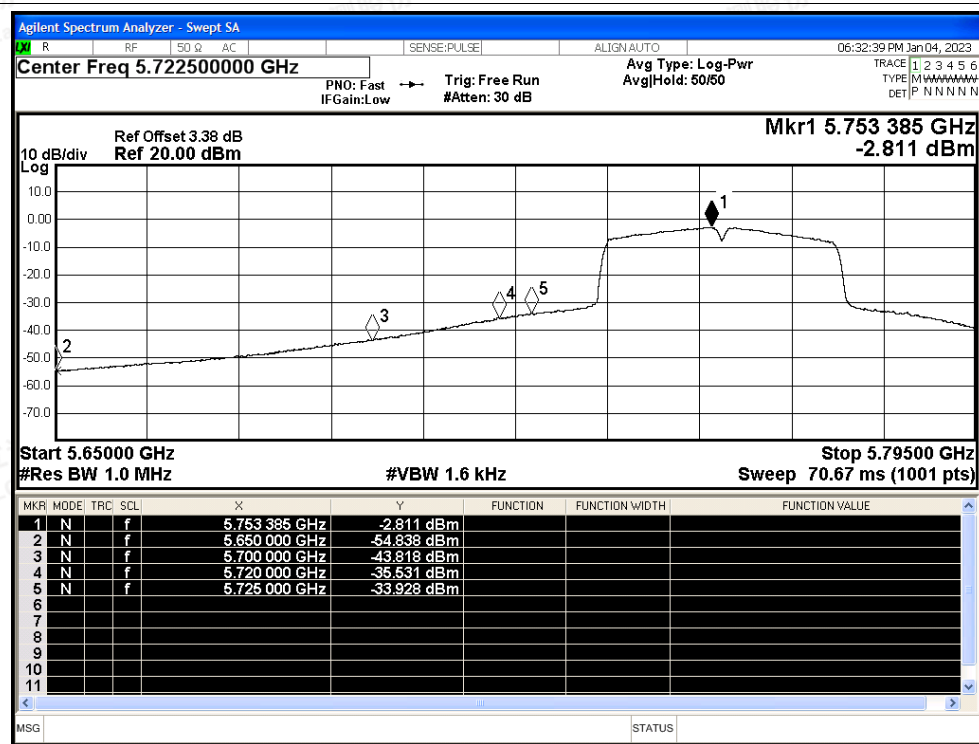
Scan code to check authenticity



Restrict Band NVNT ac40 5755MHz Ant Peak

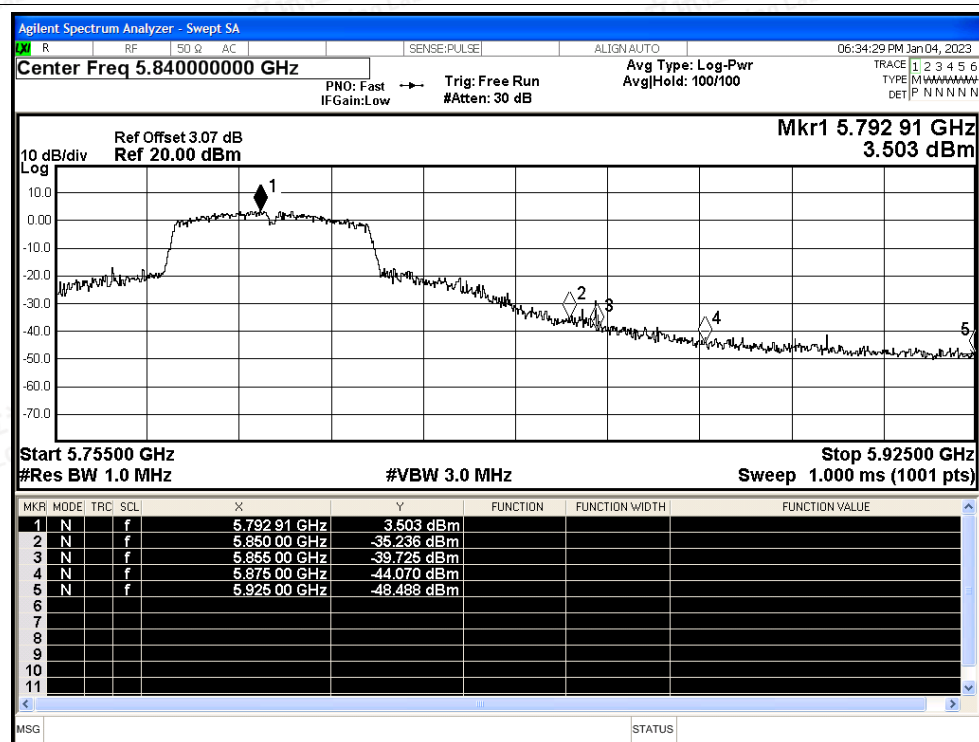


Restrict Band NVNT ac40 5755MHz Ant Average

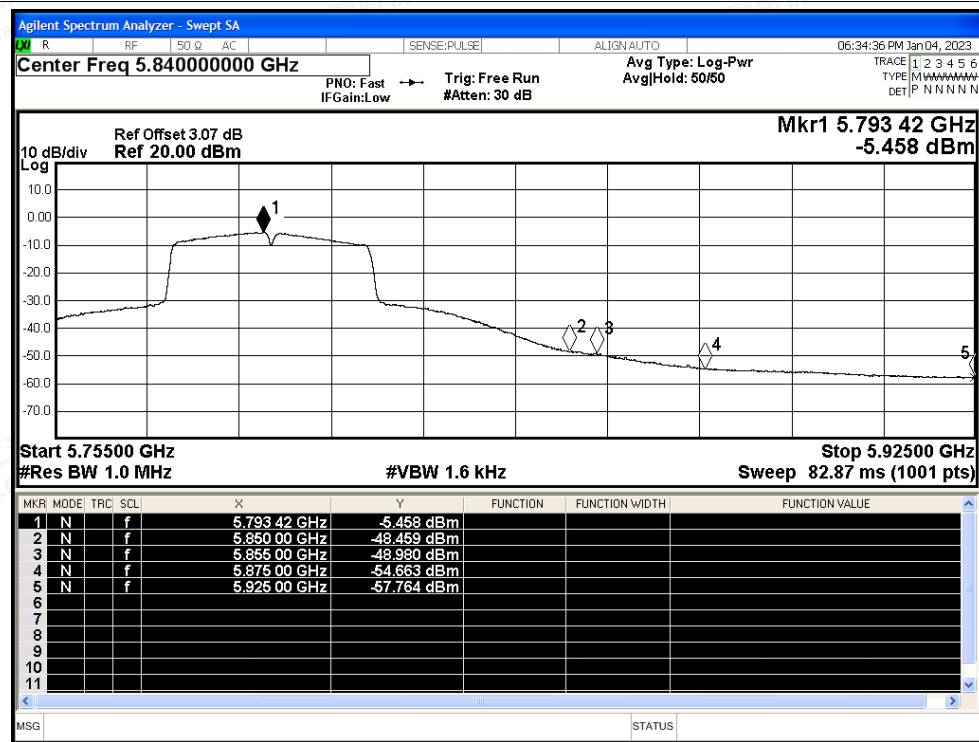




Restrict Band NVNT ac40 5795MHz Ant Peak

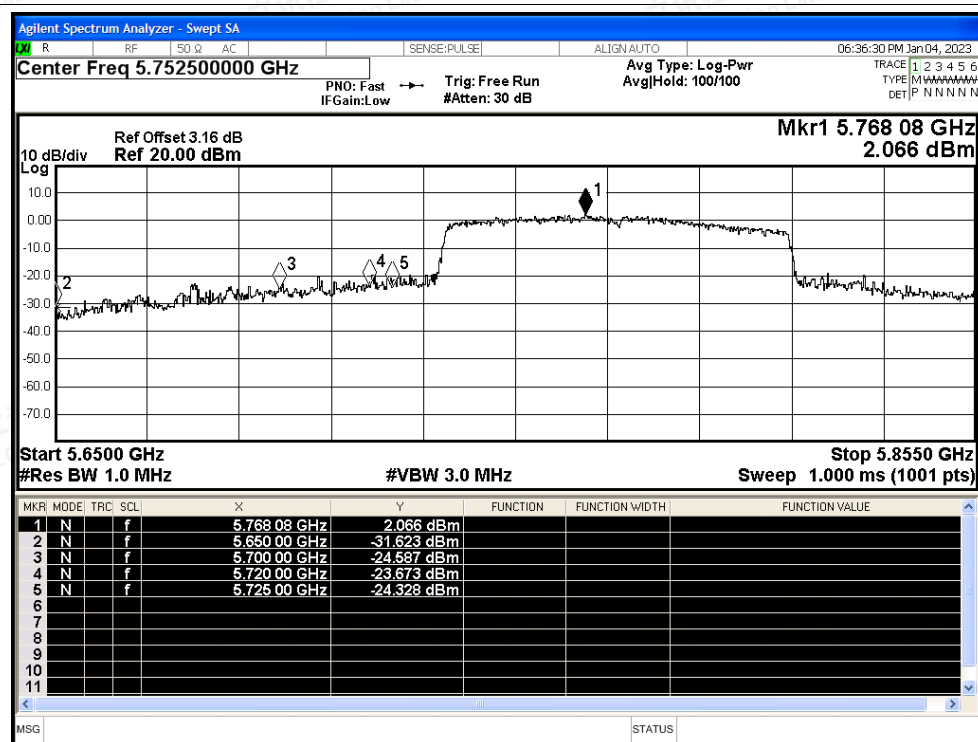


Restrict Band NVNT ac40 5795MHz Ant Average

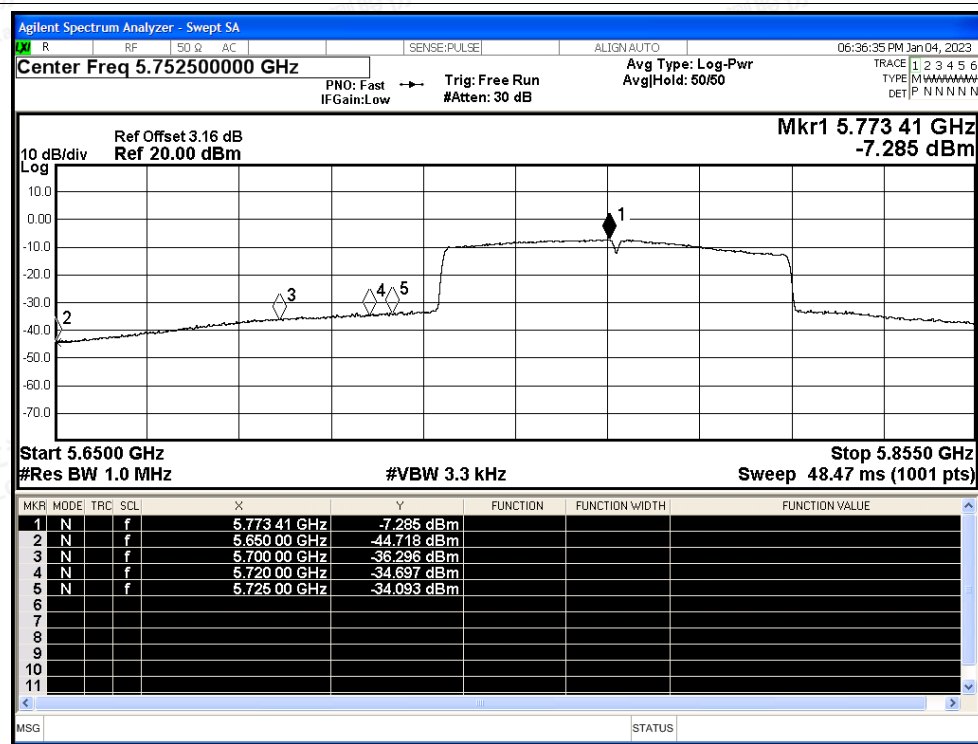




Restrict Band NVNT ac80 5775MHz Ant Peak

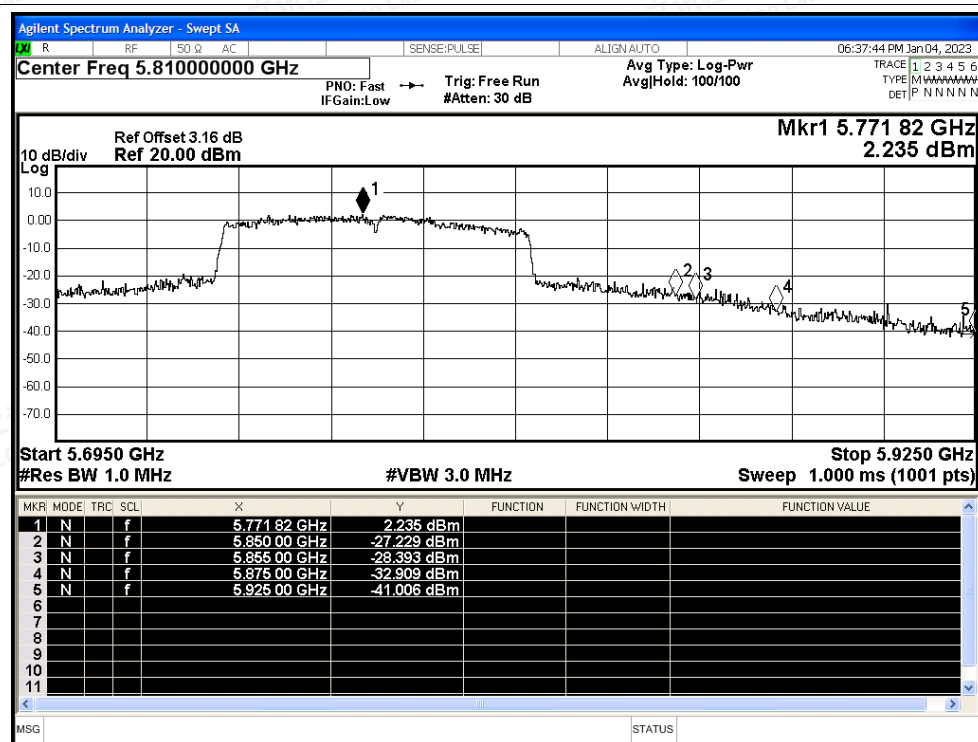


Restrict Band NVNT ac80 5775MHz Ant Average

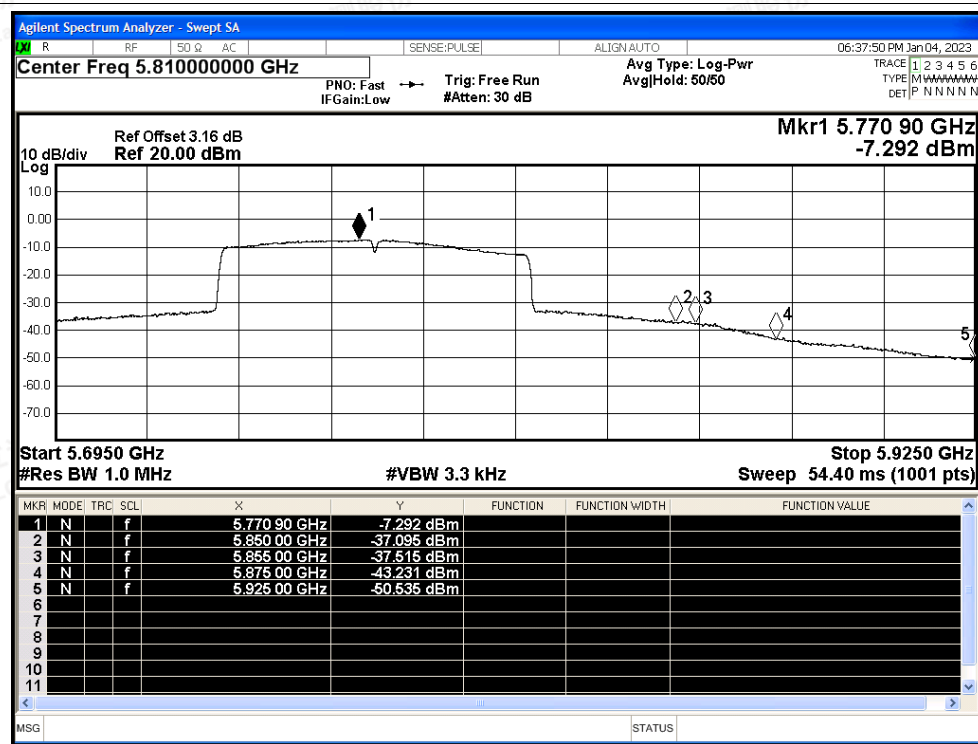




Restrict Band NVNT ac80 5775MHz Ant Peak



Restrict Band NVNT ac80 5775MHz Ant Average





D.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5755	Ant	5754.96	-40000	-6.95	25	Pass
NVNT	n40	5795	Ant	5794.96	-40000	-6.9	25	Pass
NVNT	ac20	5745	Ant	5745	0	0	25	Pass
NVNT	ac20	5785	Ant	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant	5754.96	-40000	-6.95	25	Pass
NVNT	ac40	5795	Ant	5794.96	-40000	-6.9	25	Pass
NVNT	ac80	5775	Ant	5775	0	0	25	Pass

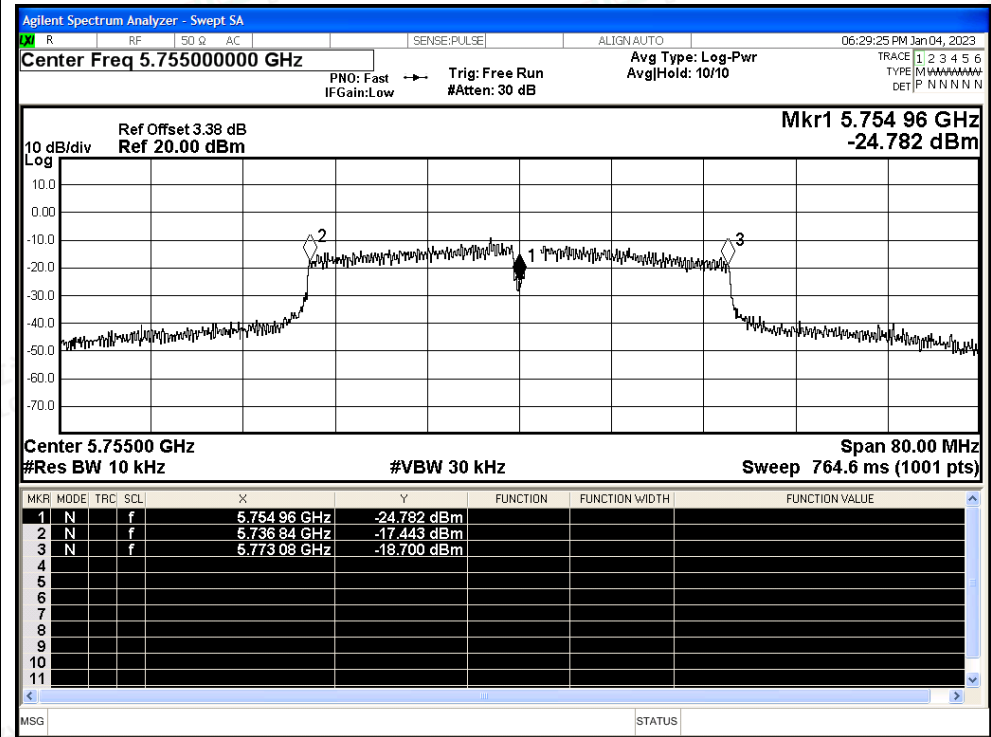


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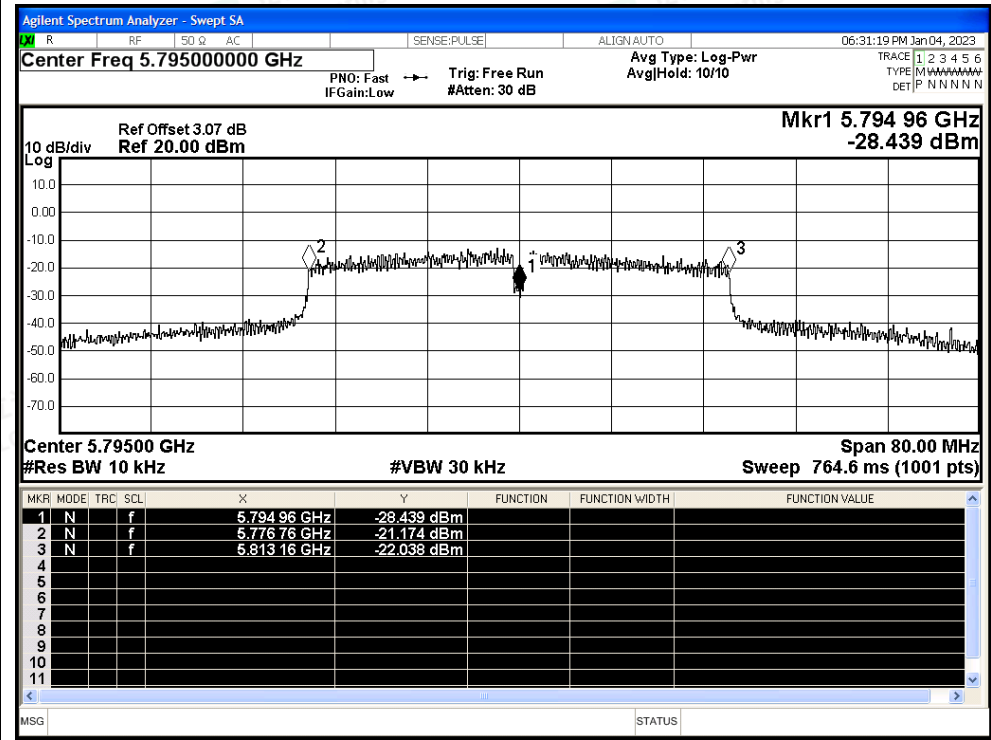


Test Graphs

Freq. Stability NVNT n40 5755MHz Ant

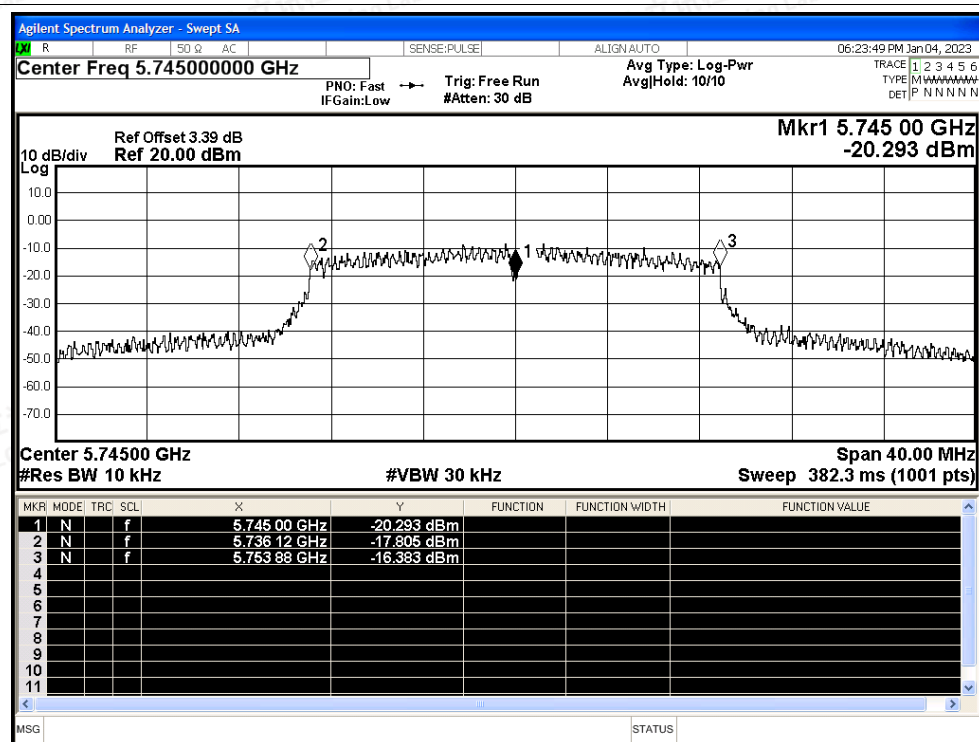


Freq. Stability NVNT n40 5795MHz Ant

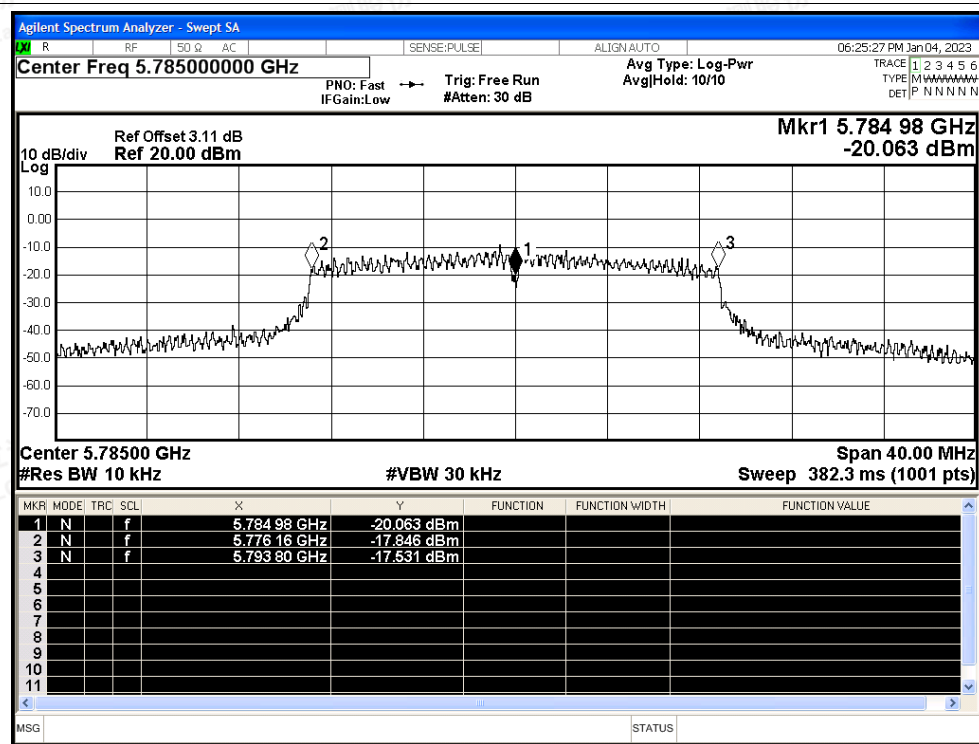


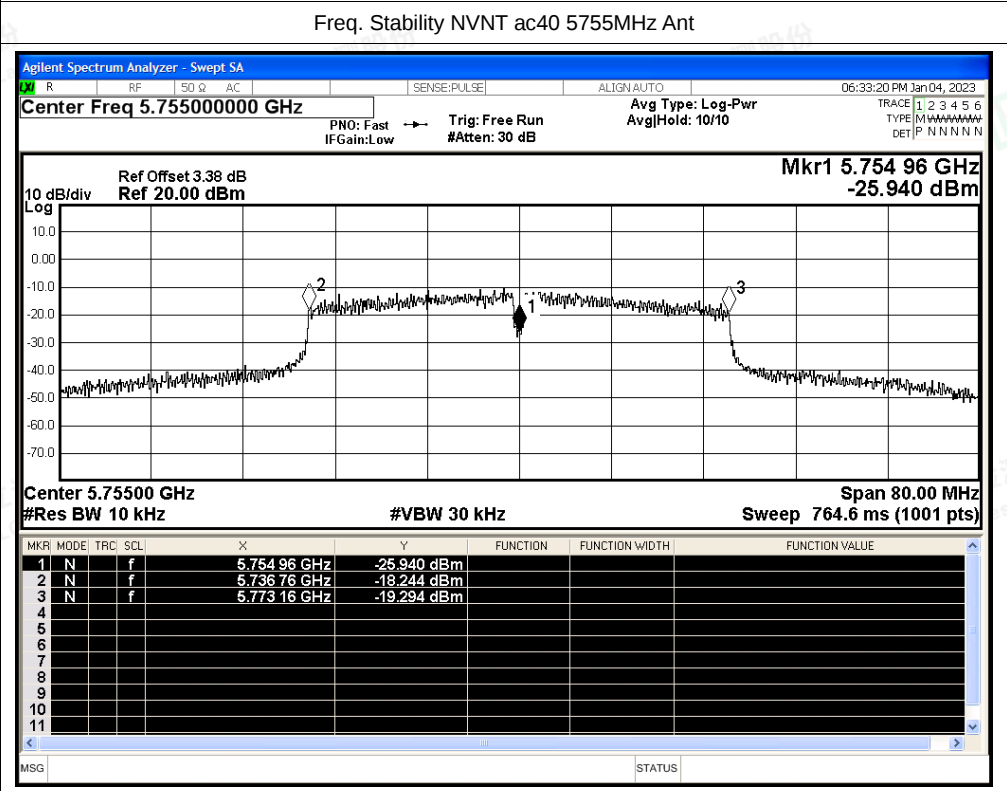
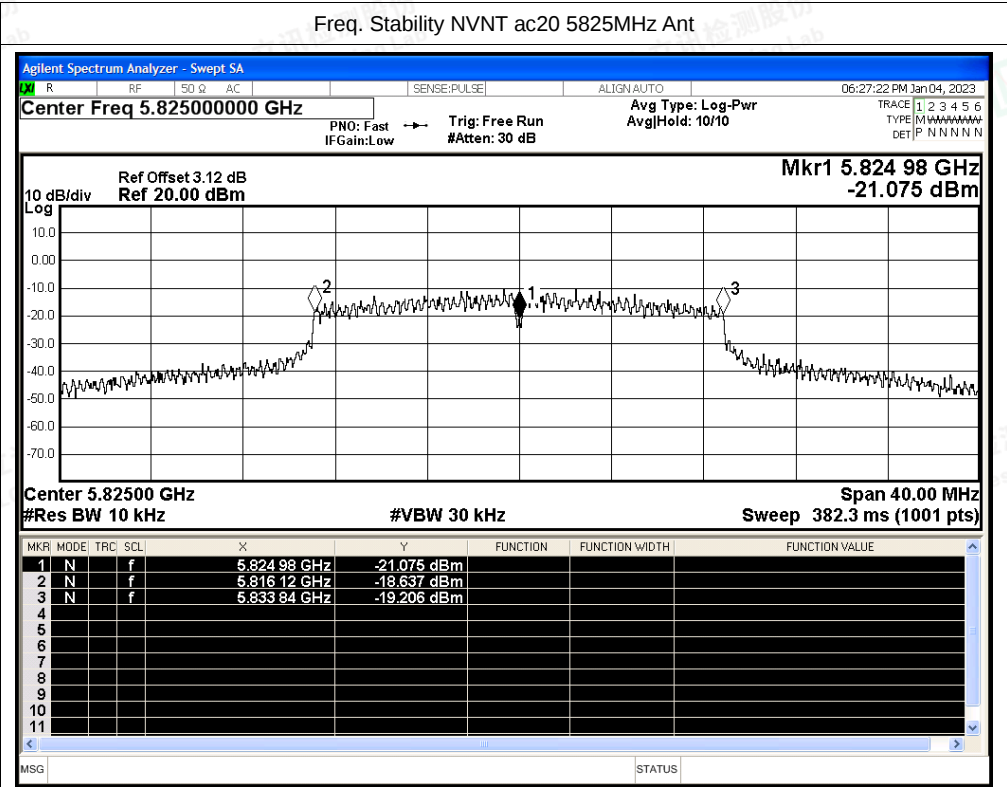


Freq. Stability NVNT ac20 5745MHz Ant



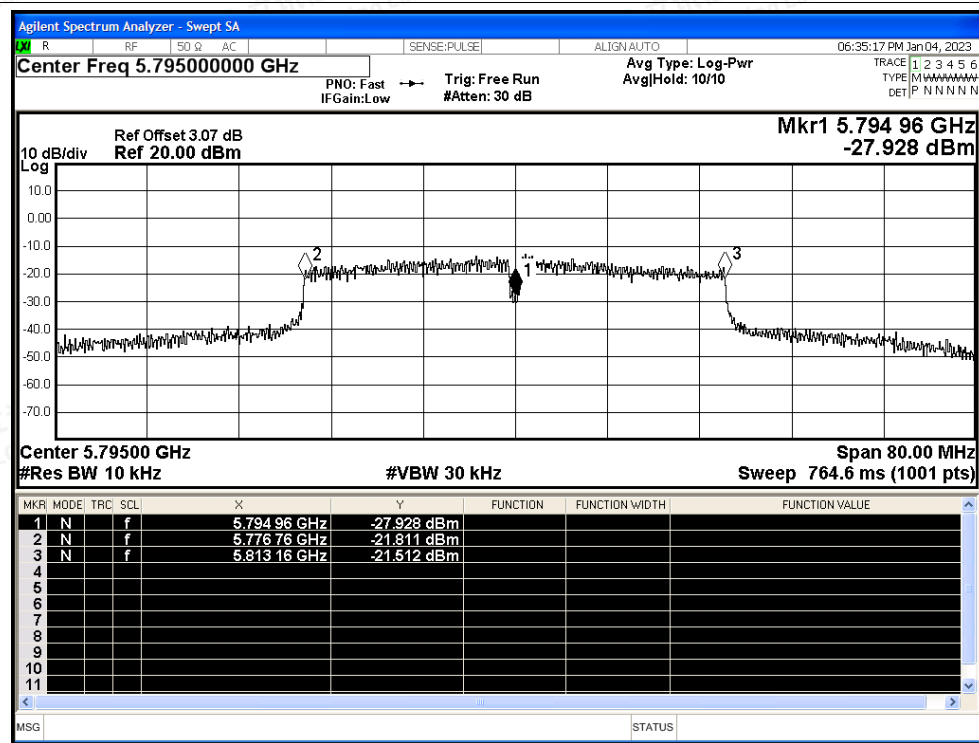
Freq. Stability NVNT ac20 5785MHz Ant



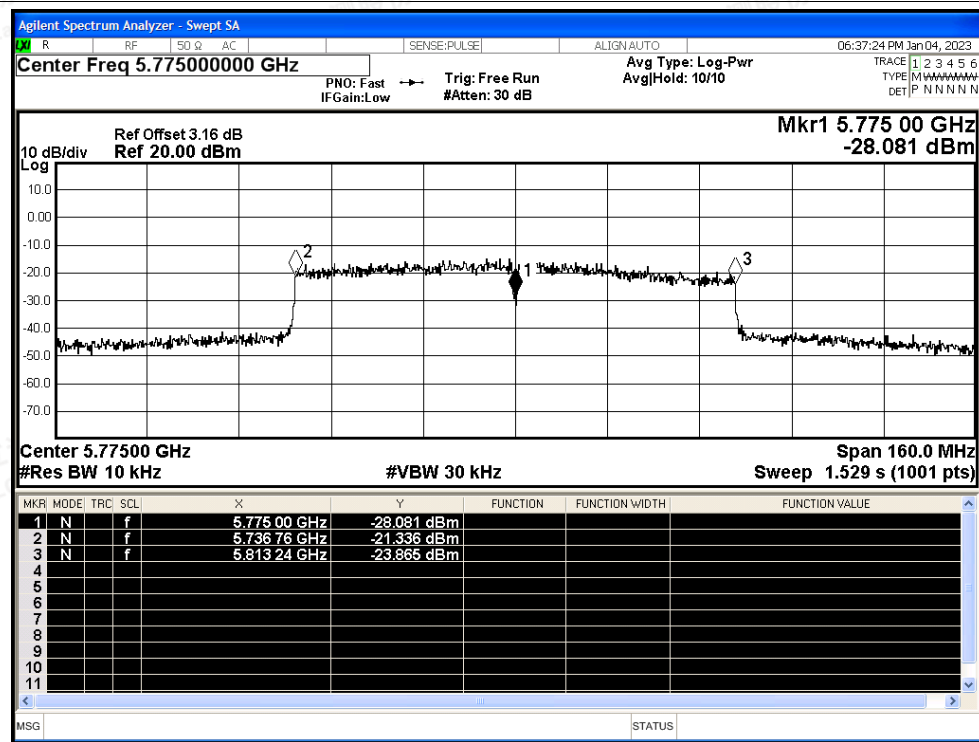




Freq. Stability NVNT ac40 5795MHz Ant



Freq. Stability NVNT ac80 5775MHz Ant





D.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant	96.94	0.13	0.72
NVNT	a	5785	Ant	96.94	0.13	0.72
NVNT	a	5825	Ant	96.94	0.13	0.72
NVNT	n20	5745	Ant	96.73	0.14	0.77
NVNT	n20	5785	Ant	96.73	0.14	0.77
NVNT	n20	5825	Ant	96.73	0.14	0.77
NVNT	n40	5755	Ant	93.64	0.29	1.54
NVNT	n40	5795	Ant	93.65	0.28	1.54
NVNT	ac20	5745	Ant	96.76	0.14	0.76
NVNT	ac20	5785	Ant	96.76	0.14	0.76
NVNT	ac20	5825	Ant	96.76	0.14	0.76
NVNT	ac40	5755	Ant	93.68	0.28	1.53
NVNT	ac40	5795	Ant	93.68	0.28	1.53
NVNT	ac80	5775	Ant	88.08	0.55	3.08

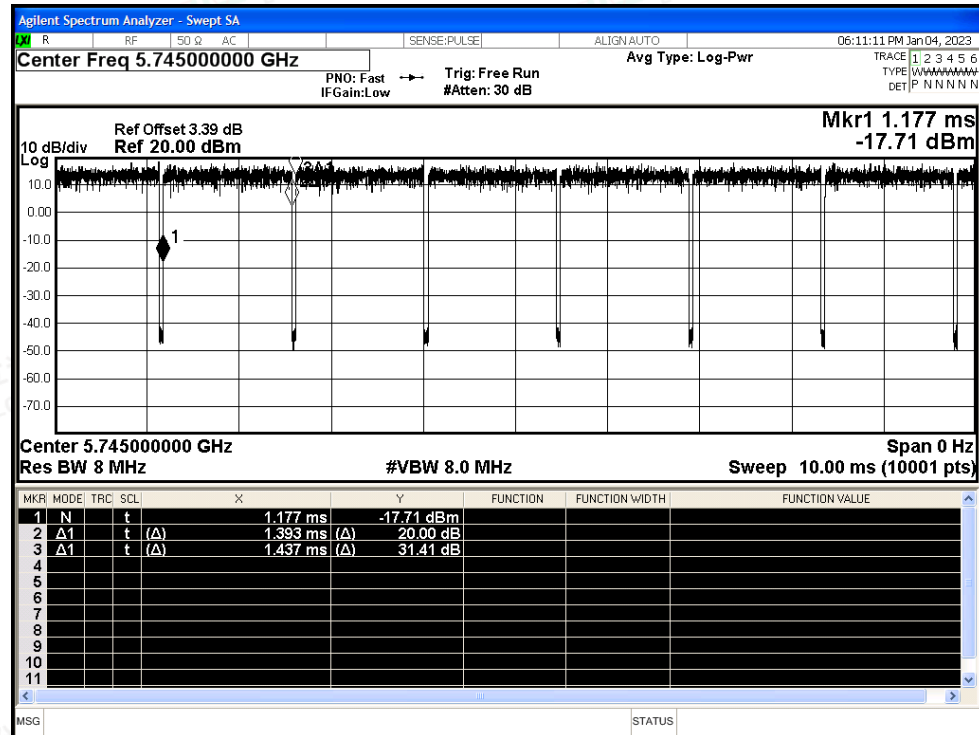


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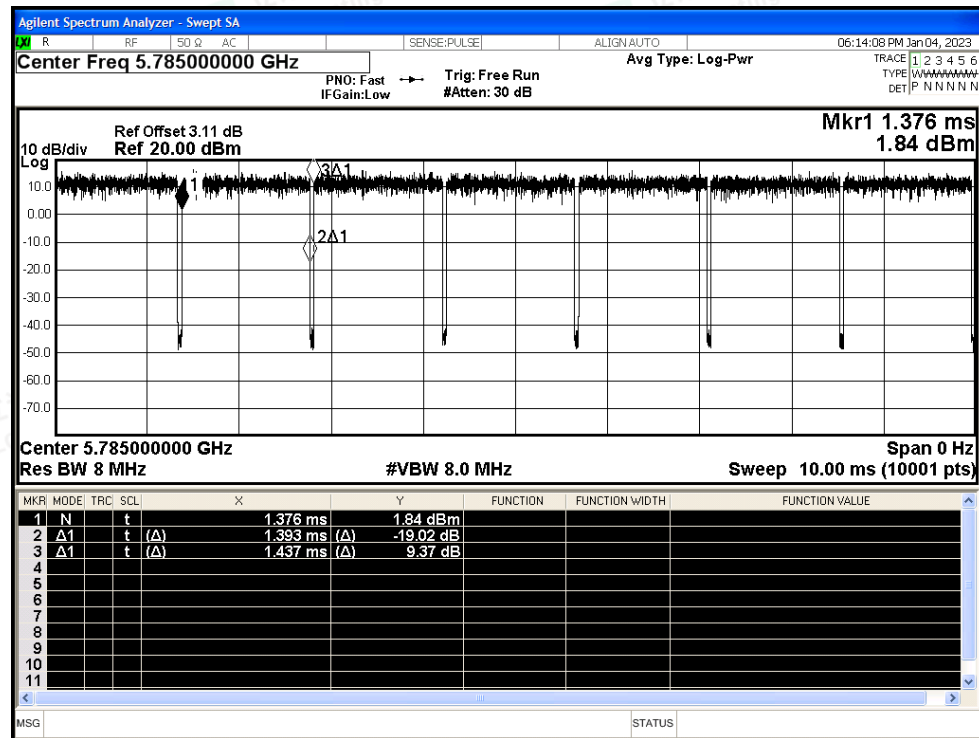


Test Graphs

Duty Cycle NVNT a 5745MHz Ant

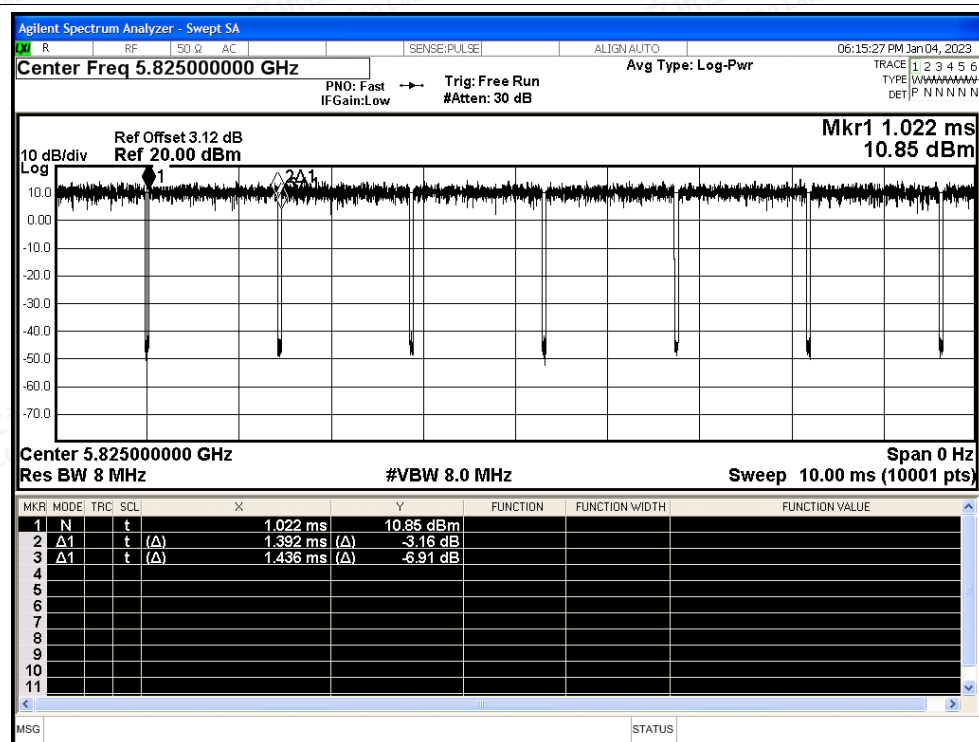


Duty Cycle NVNT a 5785MHz Ant

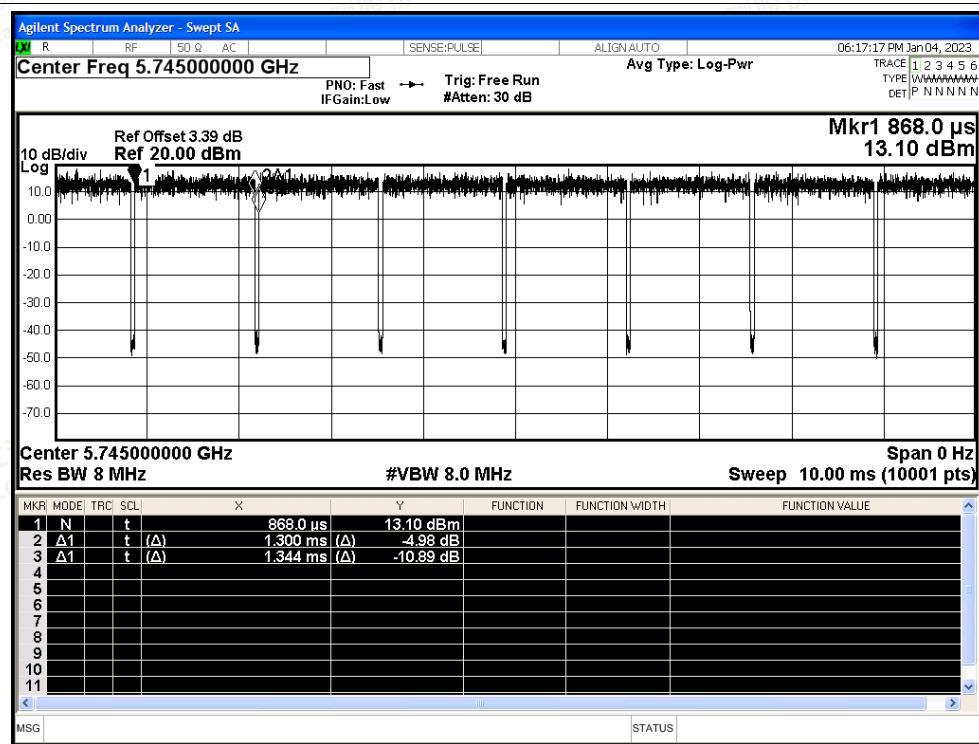




Duty Cycle NVNT a 5825MHz Ant

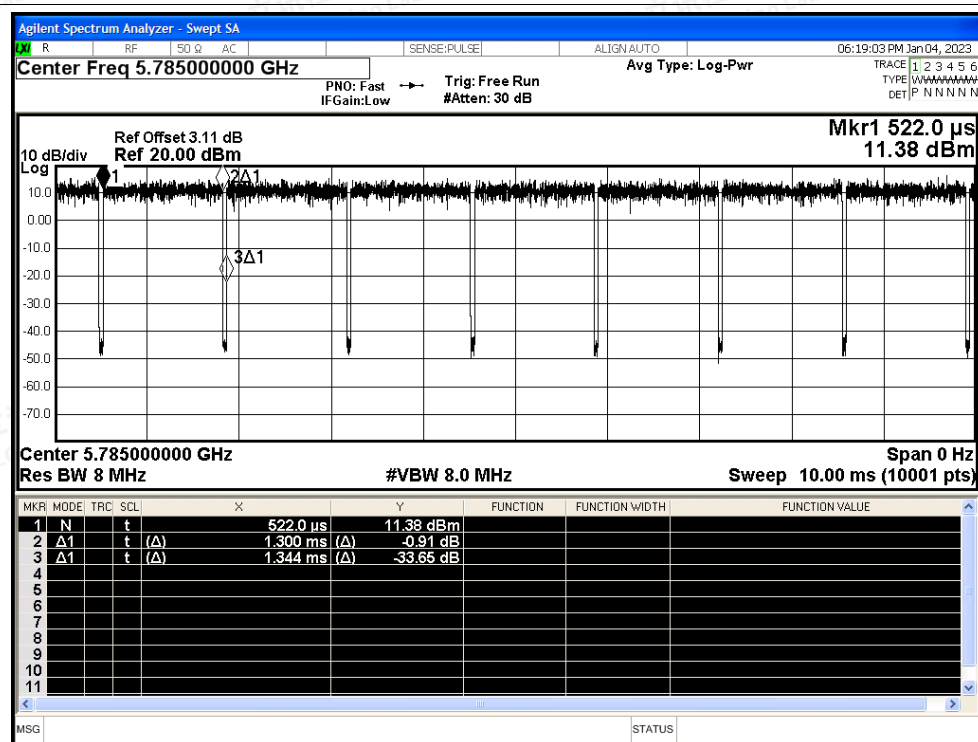


Duty Cycle NVNT n20 5745MHz Ant

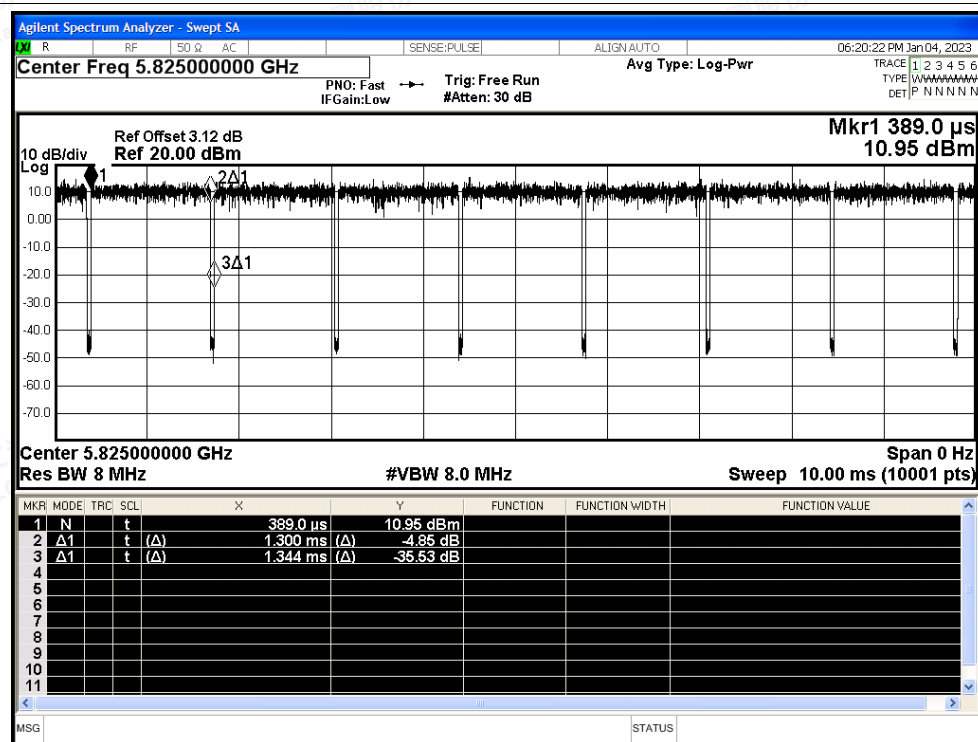




Duty Cycle NVNT n20 5785MHz Ant

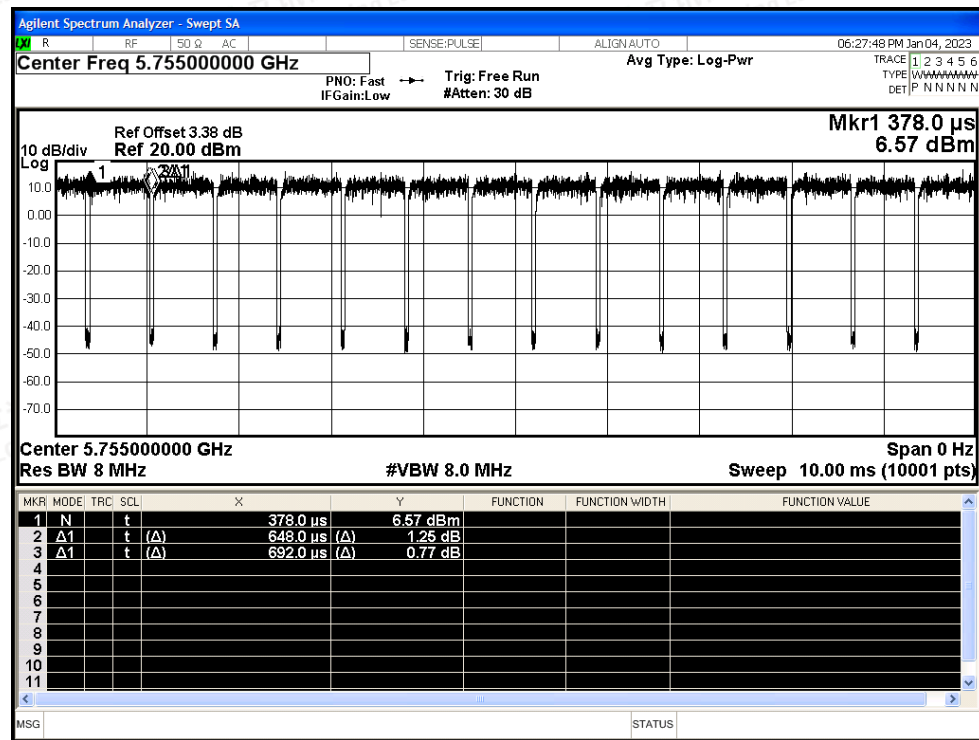


Duty Cycle NVNT n20 5825MHz Ant

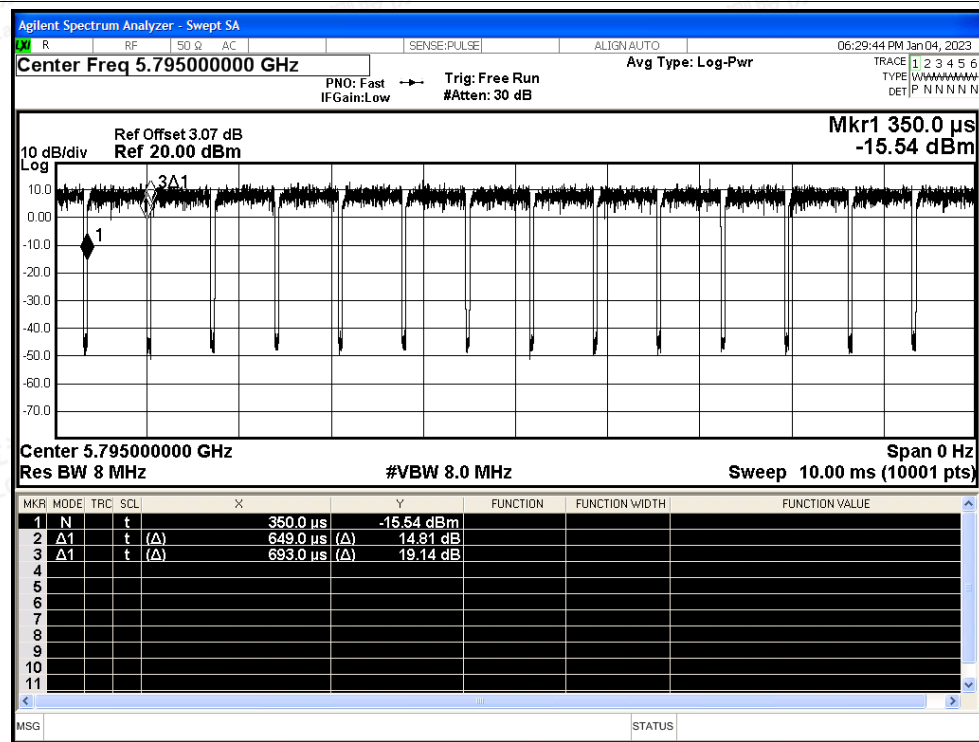




Duty Cycle NVNT n40 5755MHz Ant

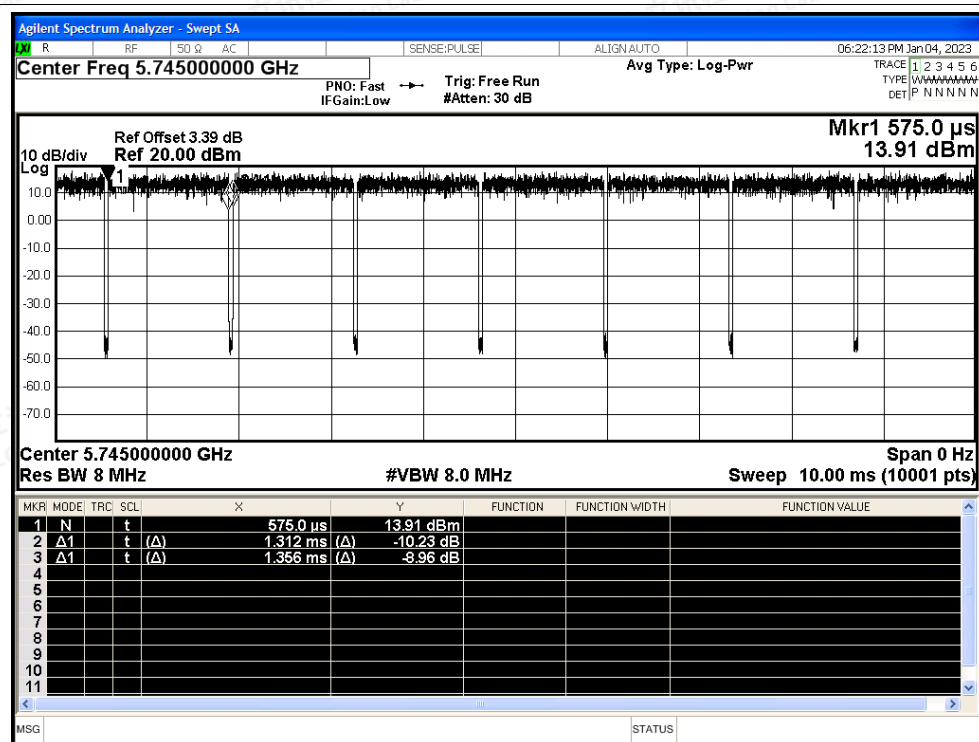


Duty Cycle NVNT n40 5795MHz Ant

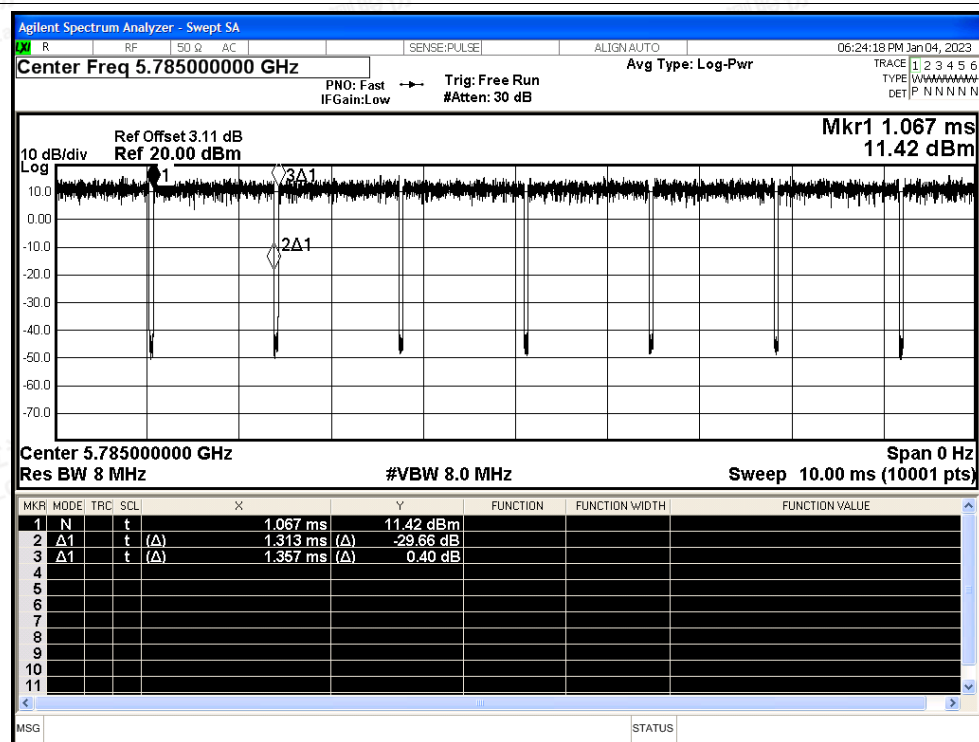




Duty Cycle NVNT ac20 5745MHz Ant

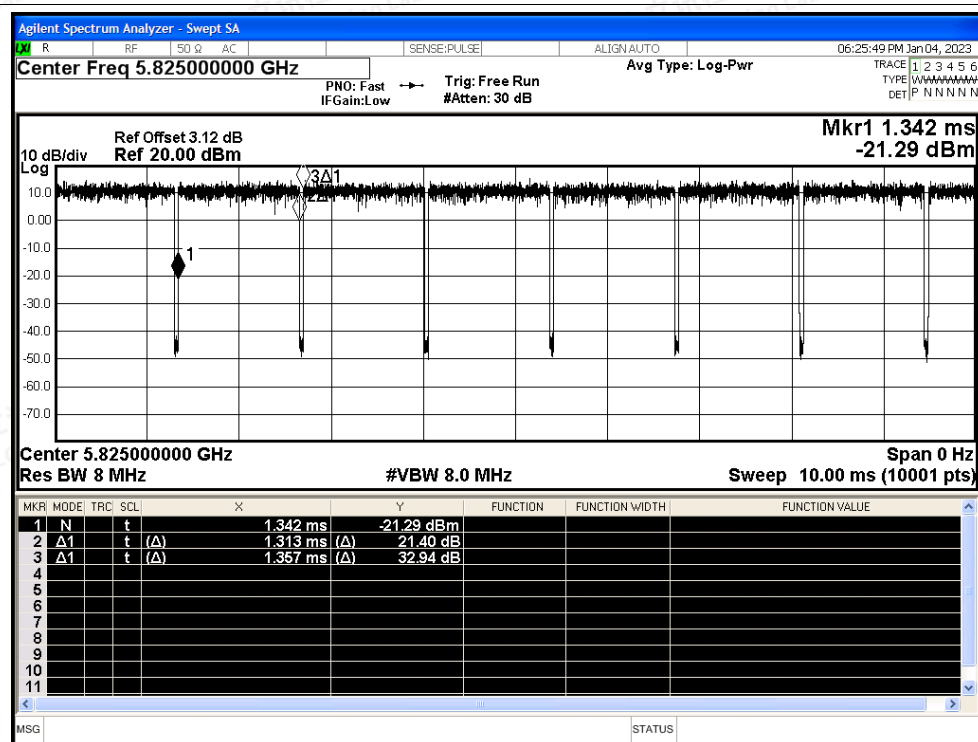


Duty Cycle NVNT ac20 5785MHz Ant

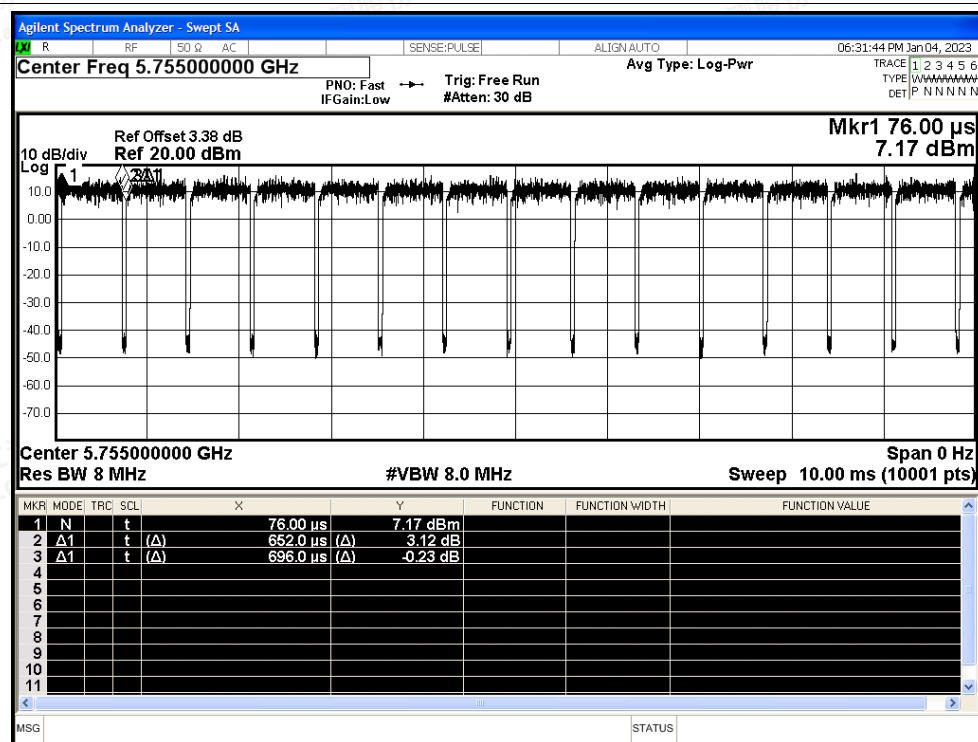




Duty Cycle NVNT ac20 5825MHz Ant

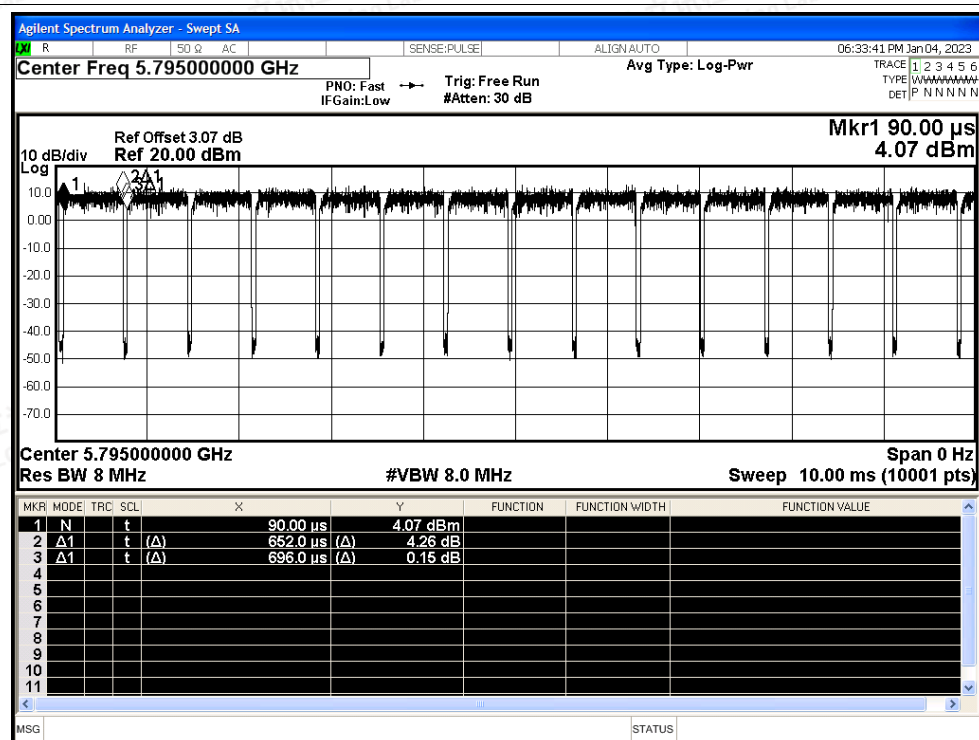


Duty Cycle NVNT ac40 5755MHz Ant





Duty Cycle NVNT ac40 5795MHz Ant



Duty Cycle NVNT ac80 5775MHz Ant

