



## Appendix E

### RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Laptop

Test Model: HPPLP10

#### Environmental Conditions

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



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### E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	16.31	0.5	Pass
NVNT	a	5785	Ant0	16.319	0.5	Pass
NVNT	a	5825	Ant0	16.327	0.5	Pass
NVNT	n20	5745	Ant0	17.371	0.5	Pass
NVNT	n20	5785	Ant0	16.991	0.5	Pass
NVNT	n20	5825	Ant0	17.202	0.5	Pass
NVNT	n40	5755	Ant0	35.693	0.5	Pass
NVNT	n40	5795	Ant0	35.449	0.5	Pass
NVNT	ac20	5745	Ant0	17.182	0.5	Pass
NVNT	ac20	5785	Ant0	17.181	0.5	Pass
NVNT	ac20	5825	Ant0	16.839	0.5	Pass
NVNT	ac40	5755	Ant0	35.327	0.5	Pass
NVNT	ac40	5795	Ant0	35.494	0.5	Pass
NVNT	ac80	5775	Ant0	75.228	0.5	Pass

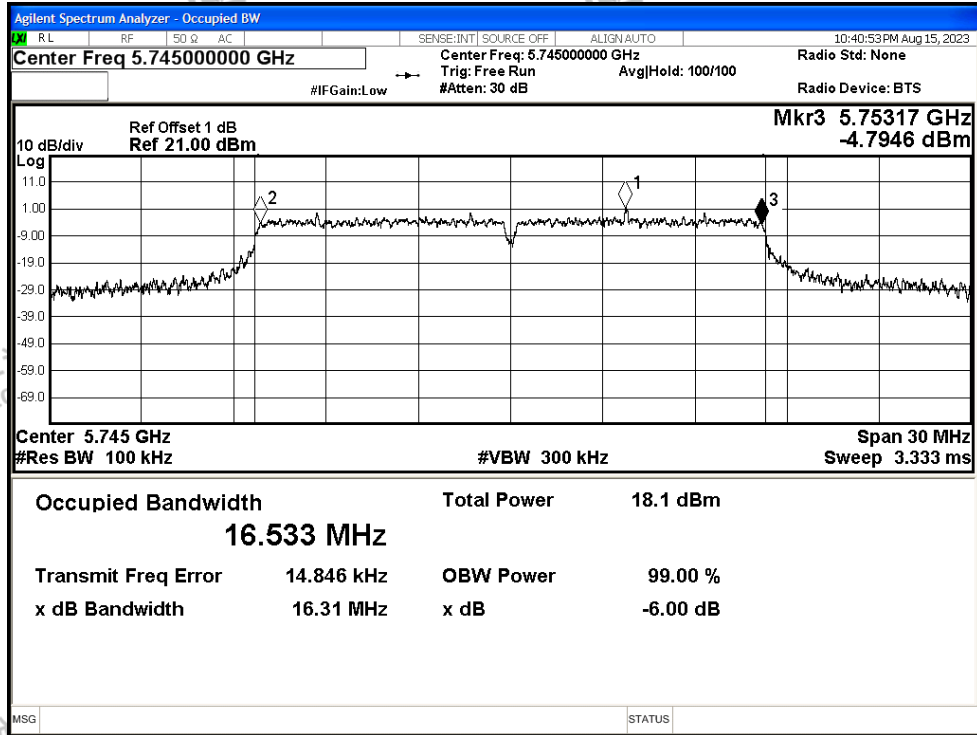


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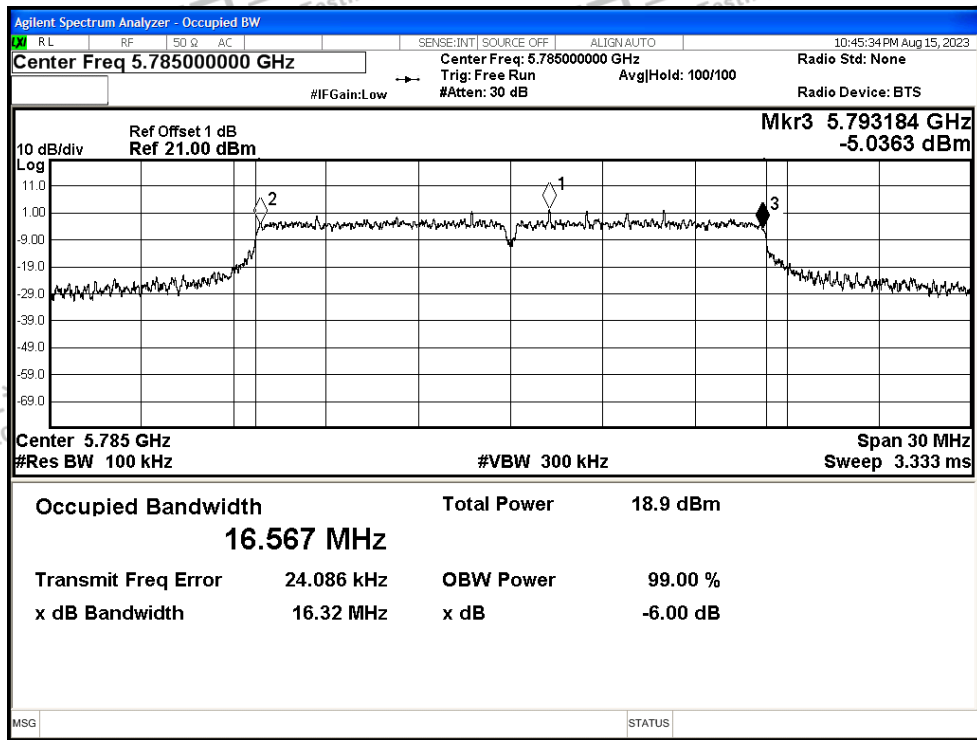


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant0

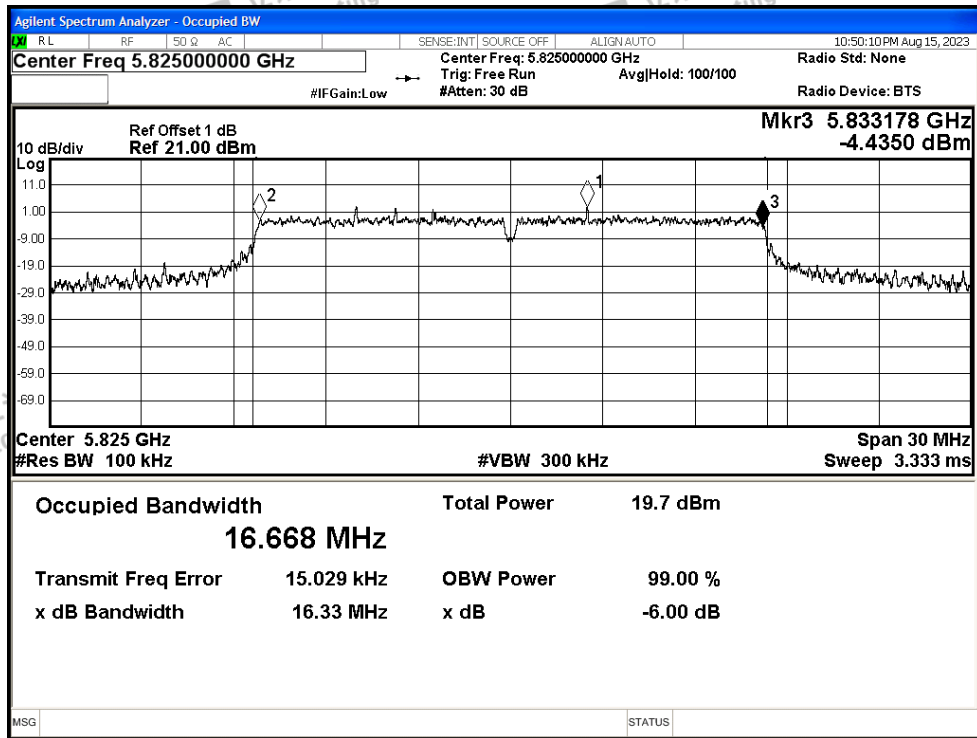


-6dB Bandwidth NVNT a 5785MHz Ant0

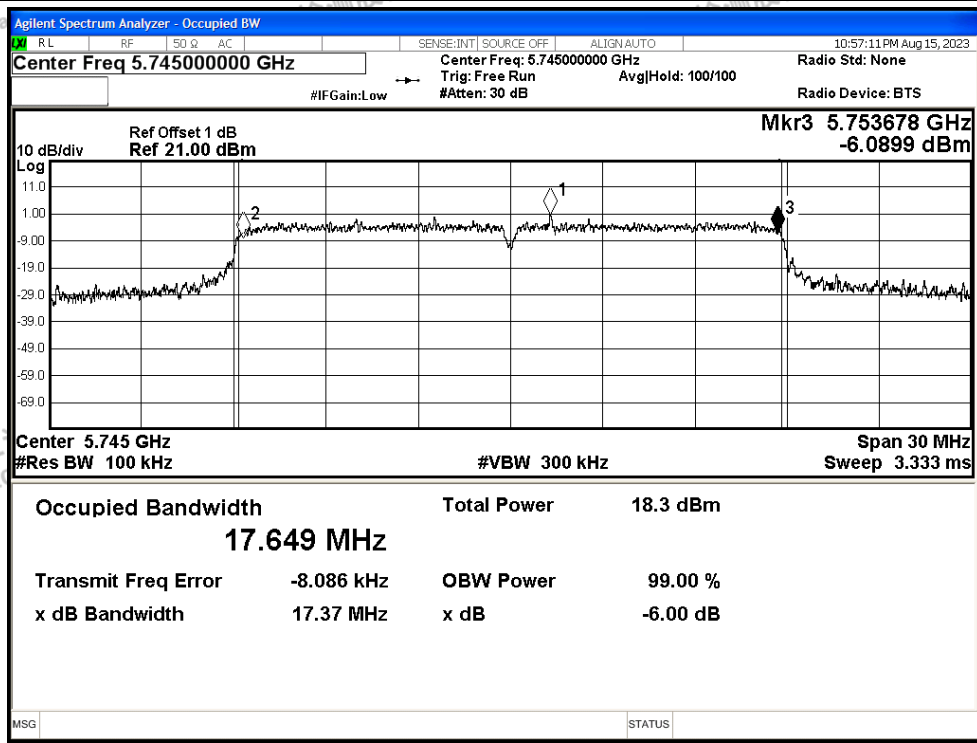




-6dB Bandwidth NVNT a 5825MHz Ant0

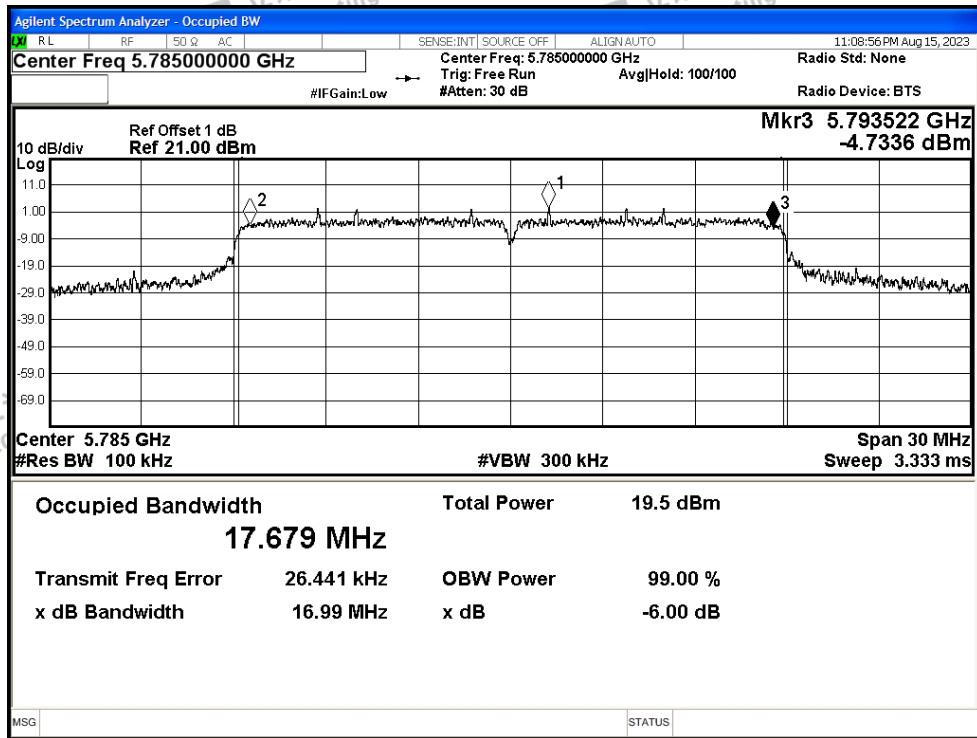


-6dB Bandwidth NVNT n20 5745MHz Ant0

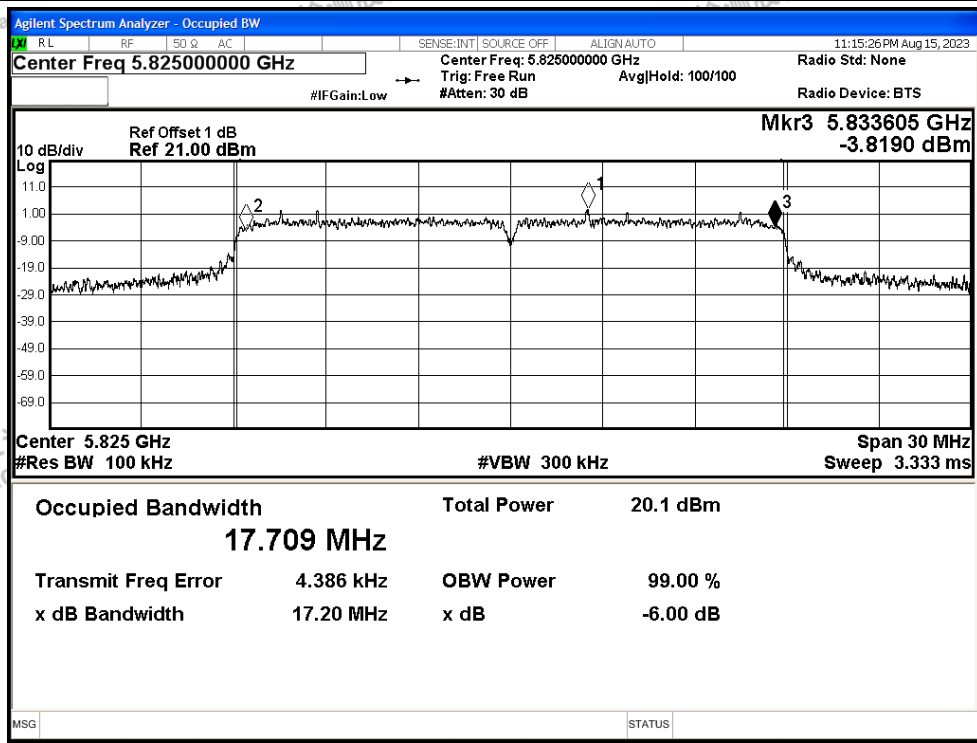




-6dB Bandwidth NVNT n20 5785MHz Ant0

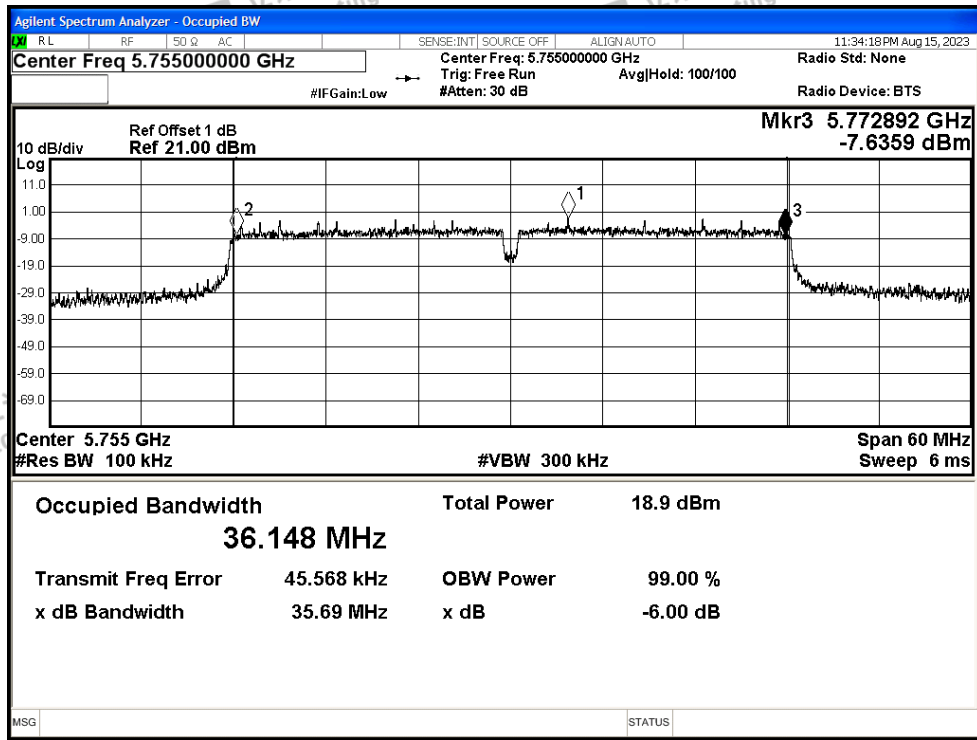


-6dB Bandwidth NVNT n20 5825MHz Ant0

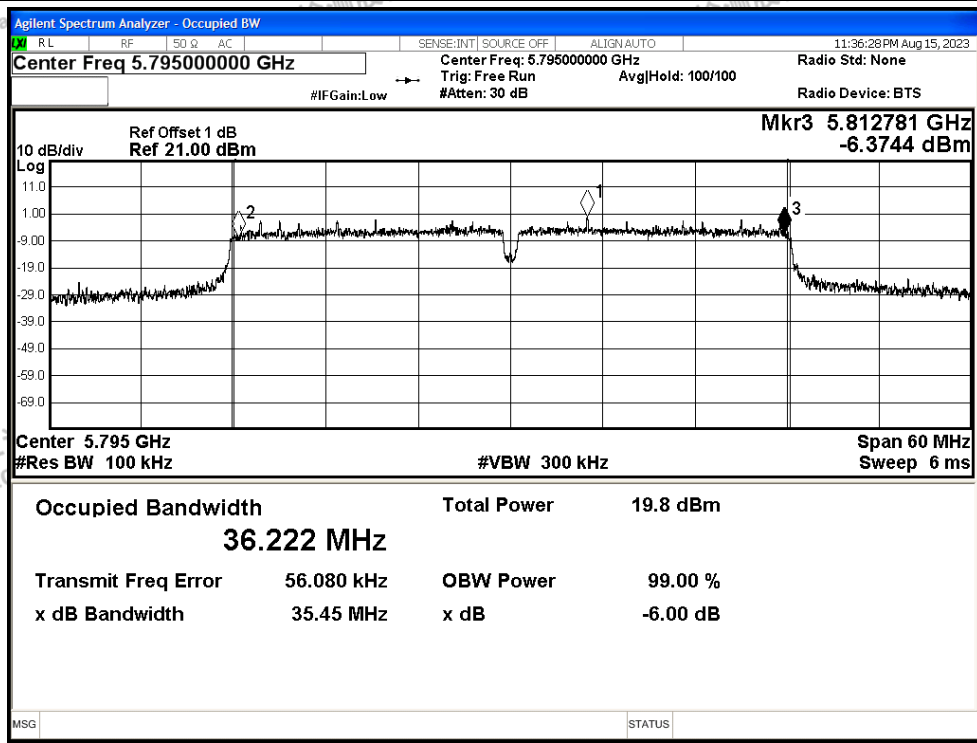




-6dB Bandwidth NVNT n40 5755MHz Ant0

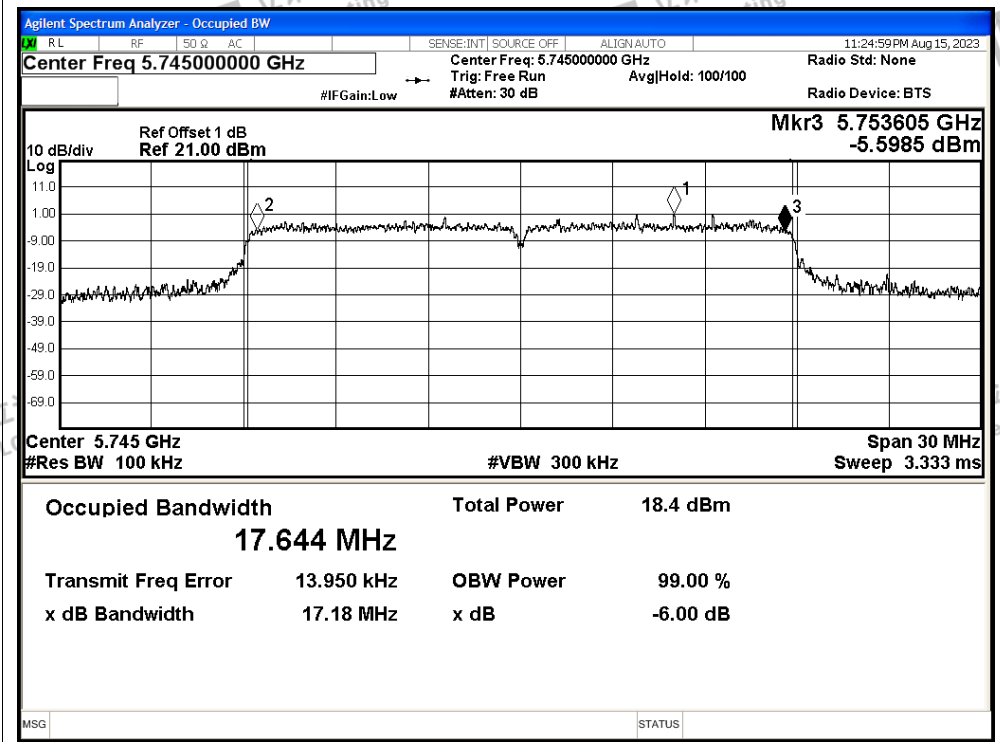


-6dB Bandwidth NVNT n40 5795MHz Ant0

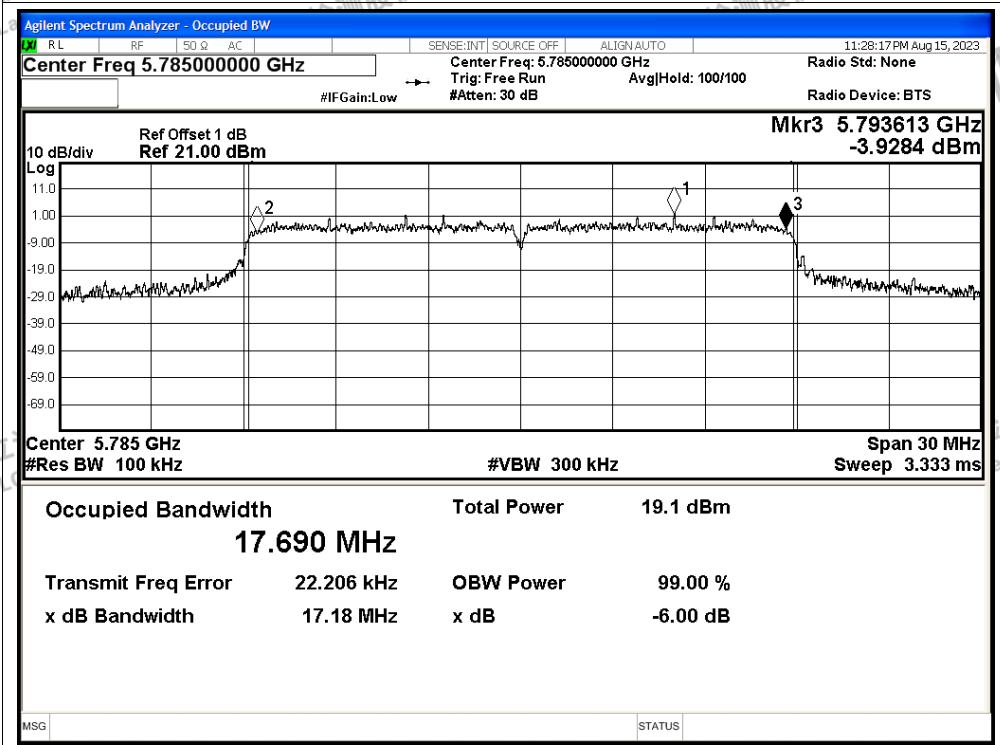




-6dB Bandwidth NVNT ac20 5745MHz Ant0



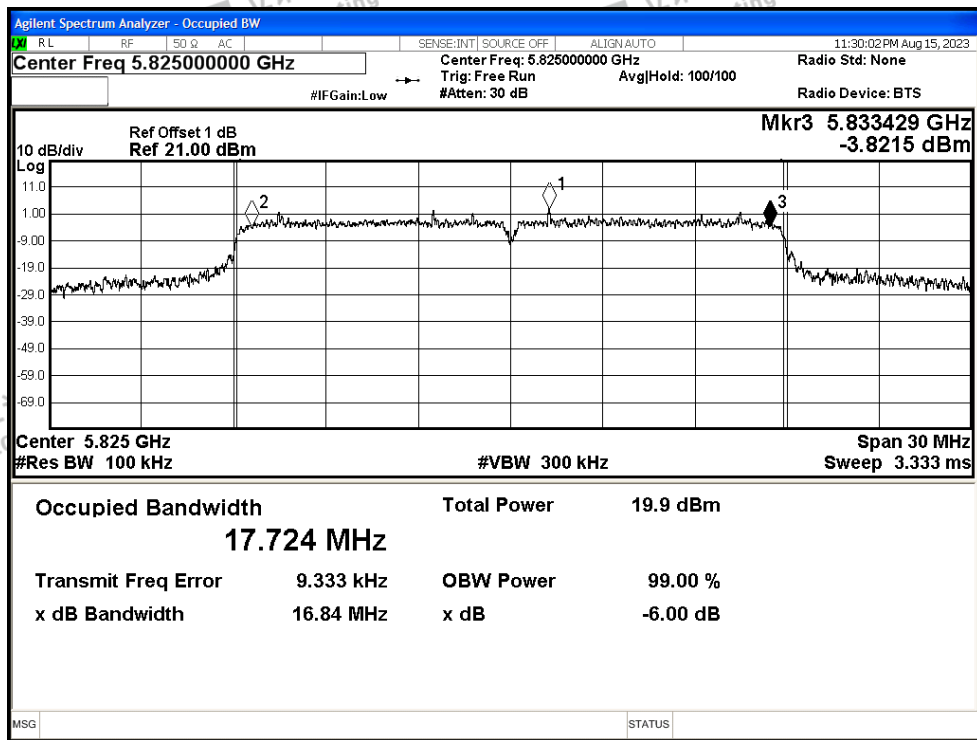
-6dB Bandwidth NVNT ac20 5785MHz Ant0



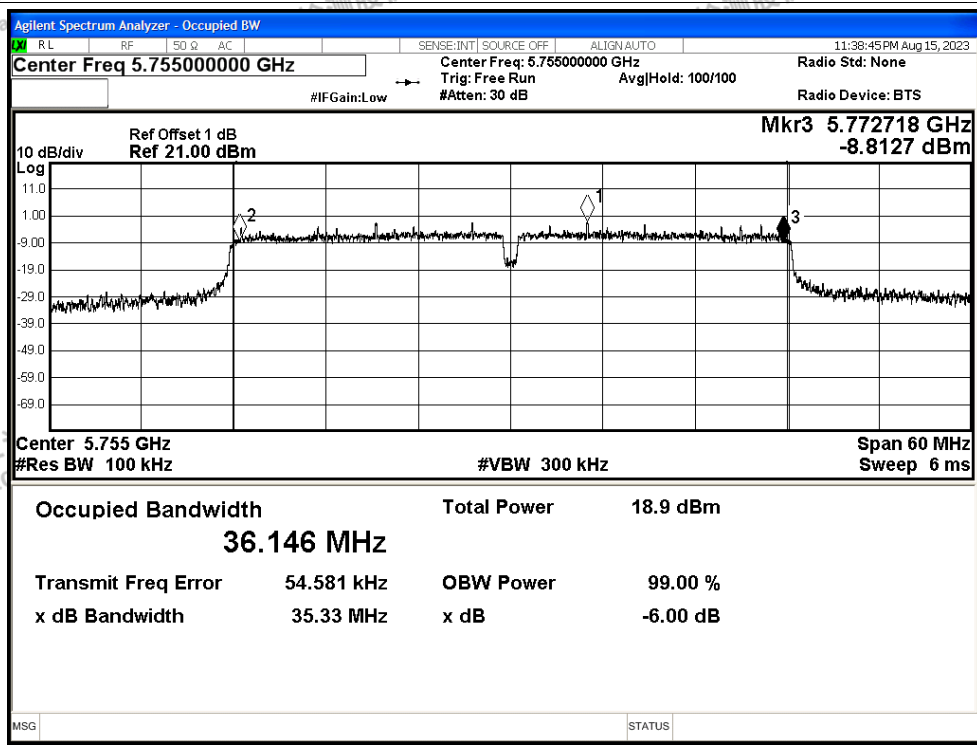




-6dB Bandwidth NVNT ac20 5825MHz Ant0



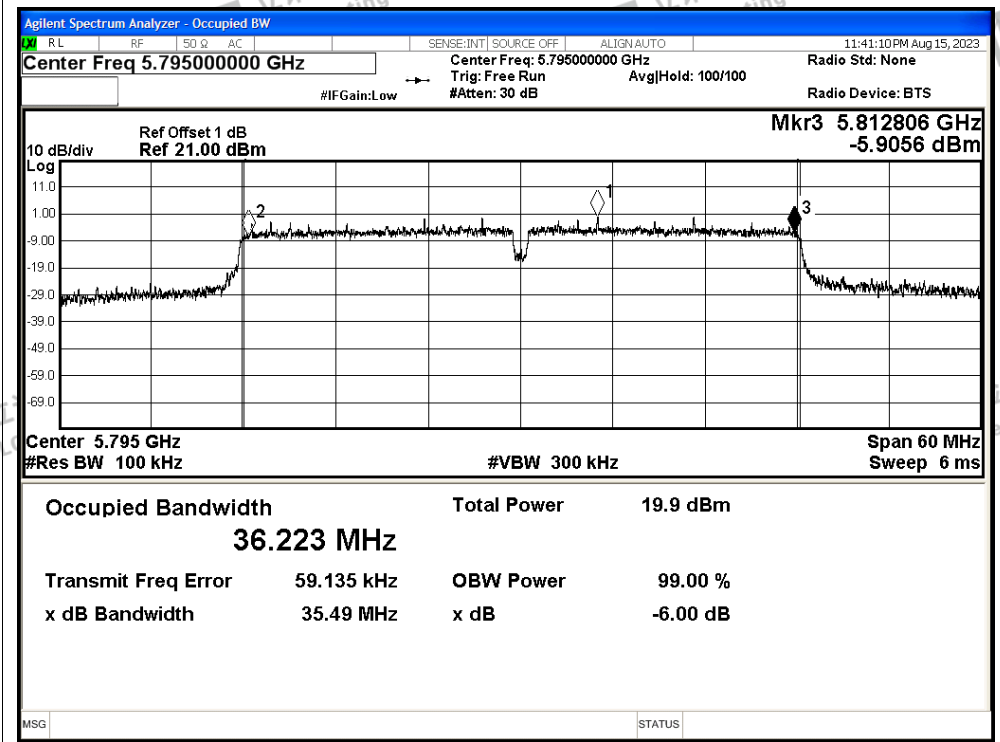
-6dB Bandwidth NVNT ac40 5755MHz Ant0



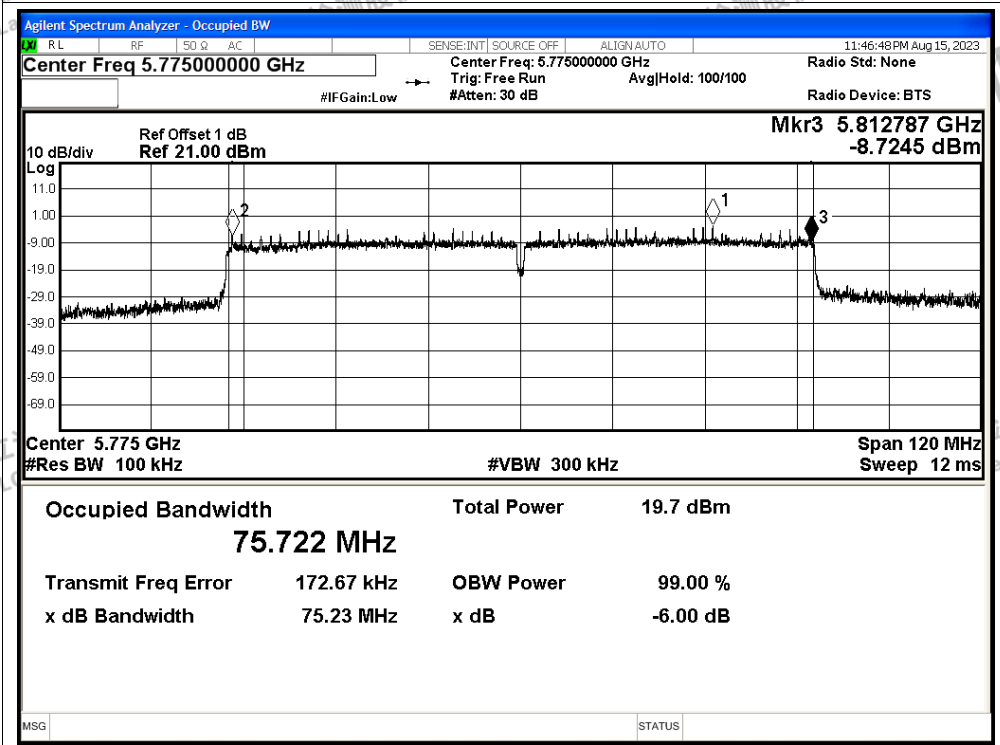




-6dB Bandwidth NVNT ac40 5795MHz Ant0



-6dB Bandwidth NVNT ac80 5775MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.319	0.5	Pass
NVNT	a	5785	Ant1	16.329	0.5	Pass
NVNT	a	5825	Ant1	16.293	0.5	Pass
NVNT	n20	5745	Ant1	17.025	0.5	Pass
NVNT	n20	5785	Ant1	17.219	0.5	Pass
NVNT	n20	5825	Ant1	16.997	0.5	Pass
NVNT	n40	5755	Ant1	35.491	0.5	Pass
NVNT	n40	5795	Ant1	35.089	0.5	Pass
NVNT	ac20	5745	Ant1	16.971	0.5	Pass
NVNT	ac20	5785	Ant1	16.978	0.5	Pass
NVNT	ac20	5825	Ant1	16.956	0.5	Pass
NVNT	ac40	5755	Ant1	35.229	0.5	Pass
NVNT	ac40	5795	Ant1	35.532	0.5	Pass
NVNT	ac80	5775	Ant1	75.3	0.5	Pass

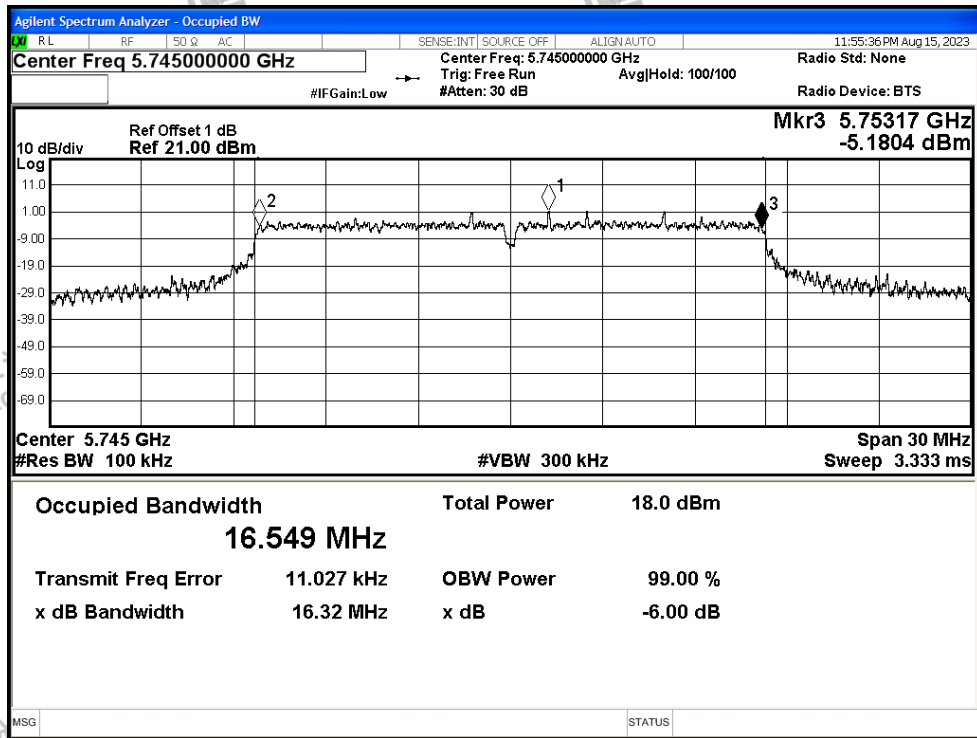


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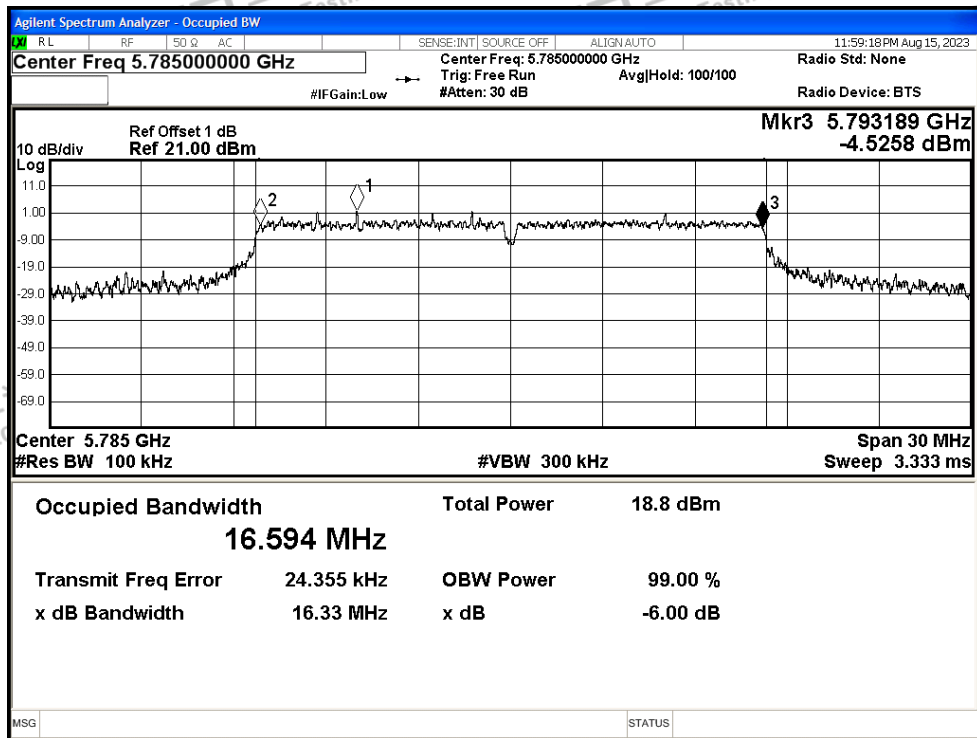


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

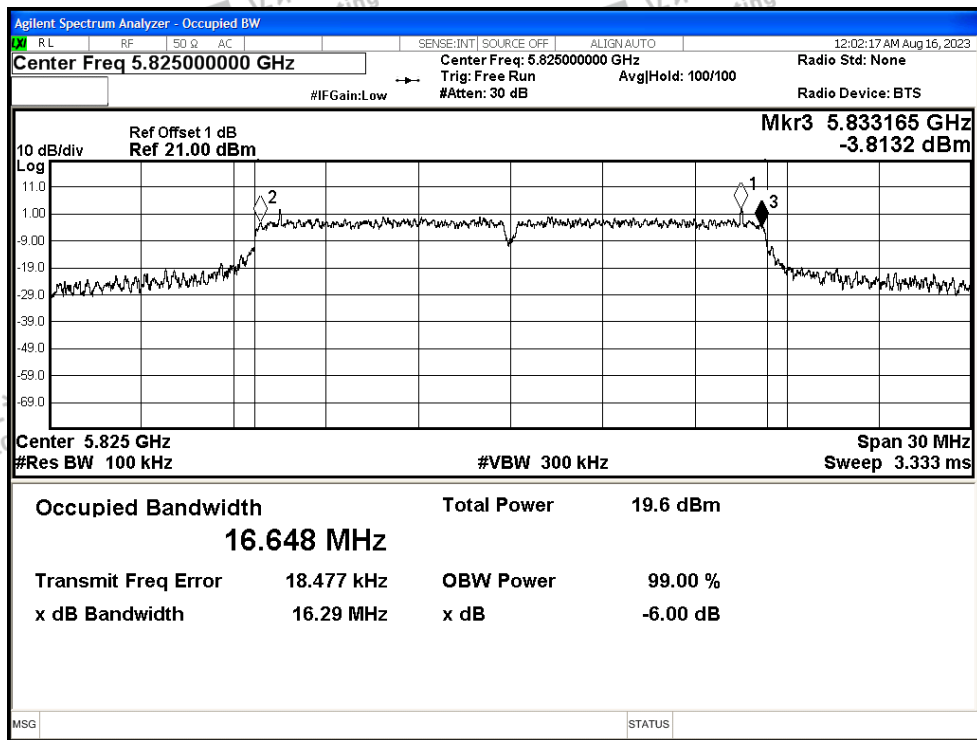


-6dB Bandwidth NVNT a 5785MHz Ant1

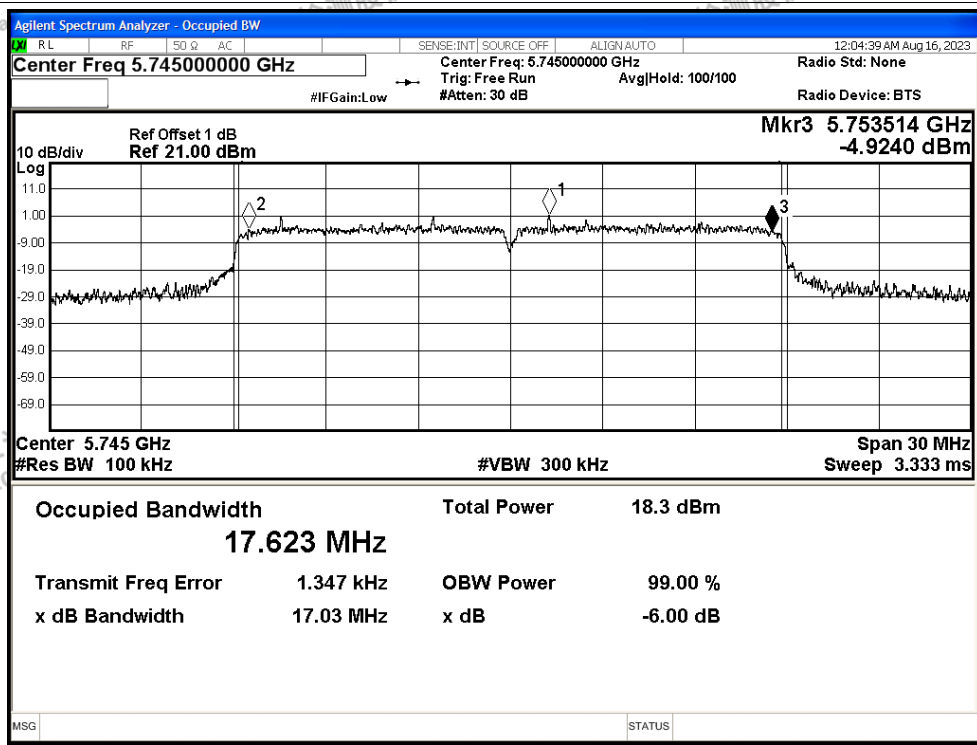




-6dB Bandwidth NVNT a 5825MHz Ant1

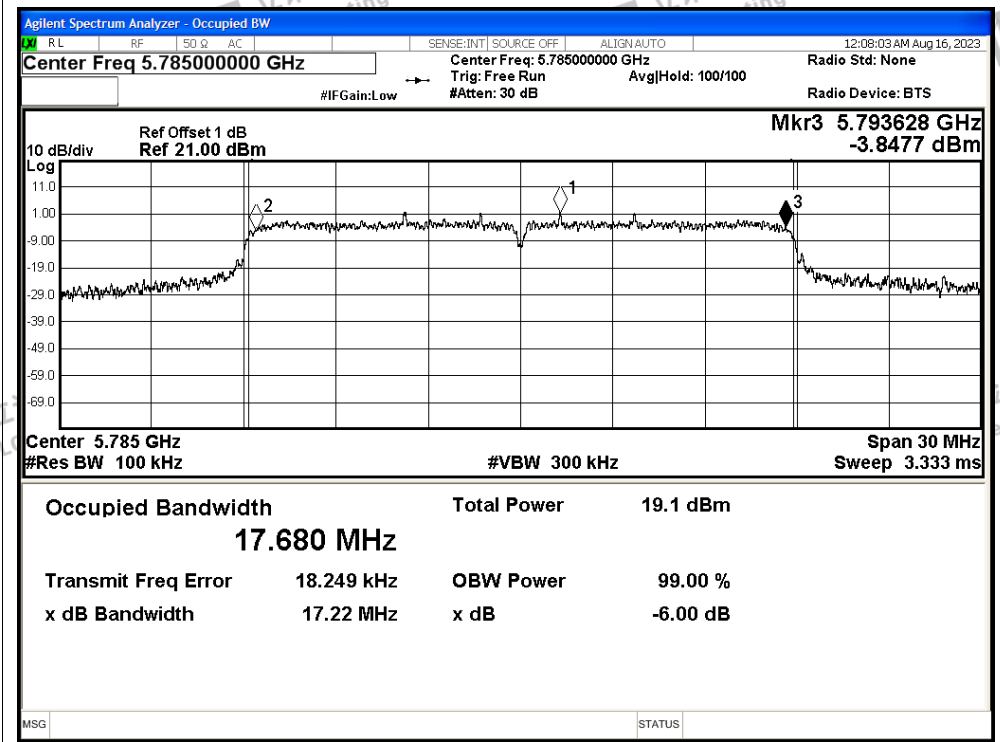


-6dB Bandwidth NVNT n20 5745MHz Ant1

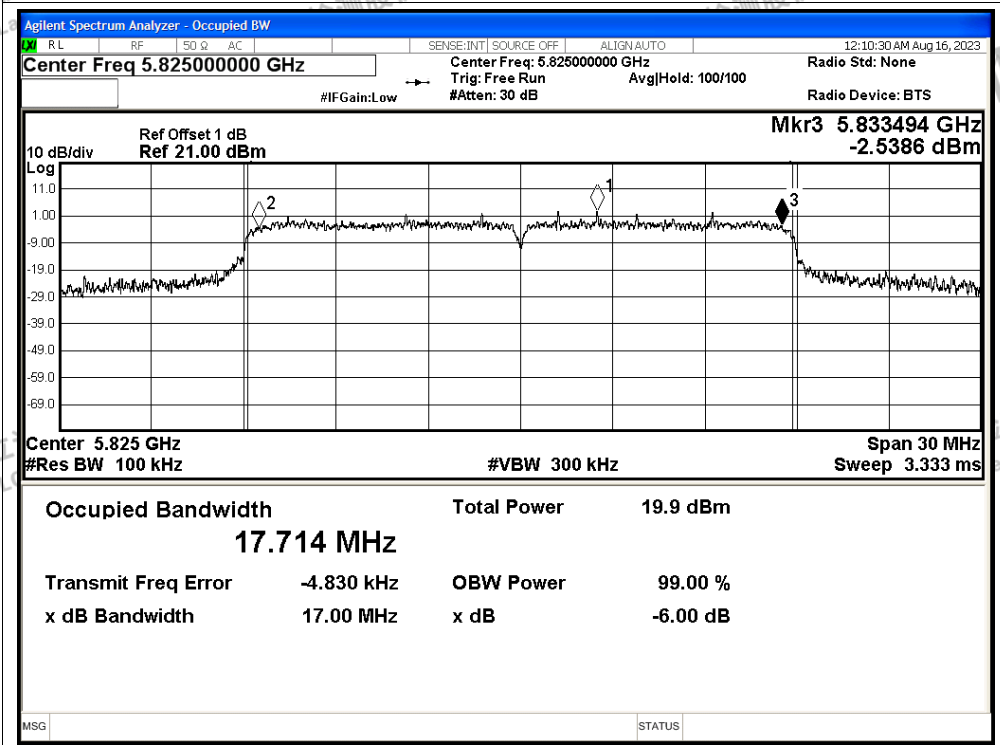




-6dB Bandwidth NVNT n20 5785MHz Ant1

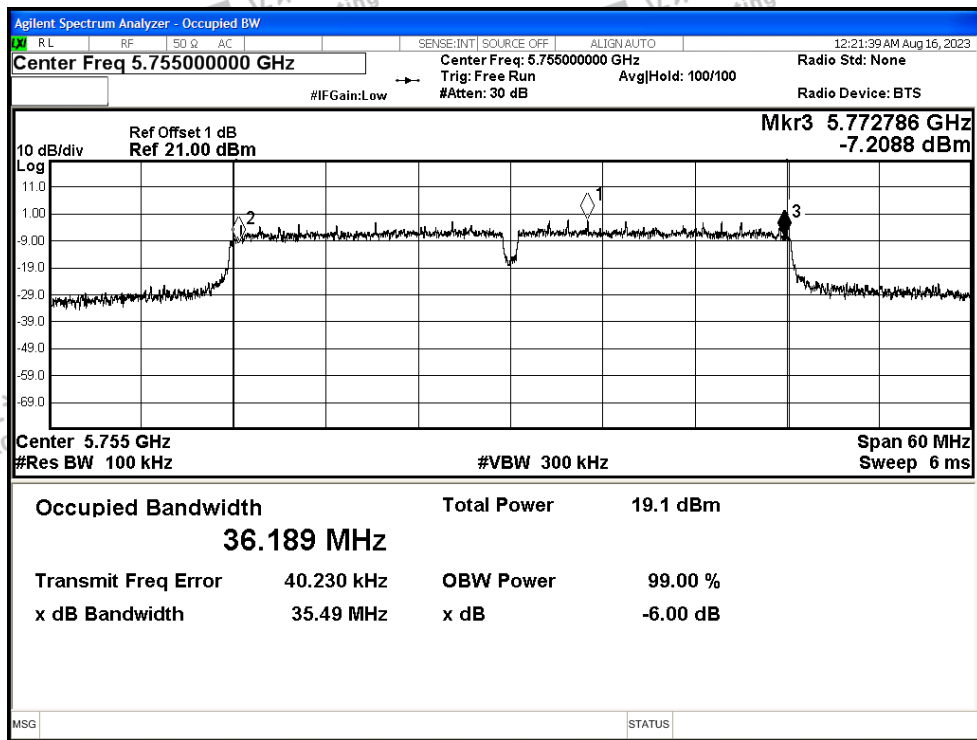


-6dB Bandwidth NVNT n20 5825MHz Ant1

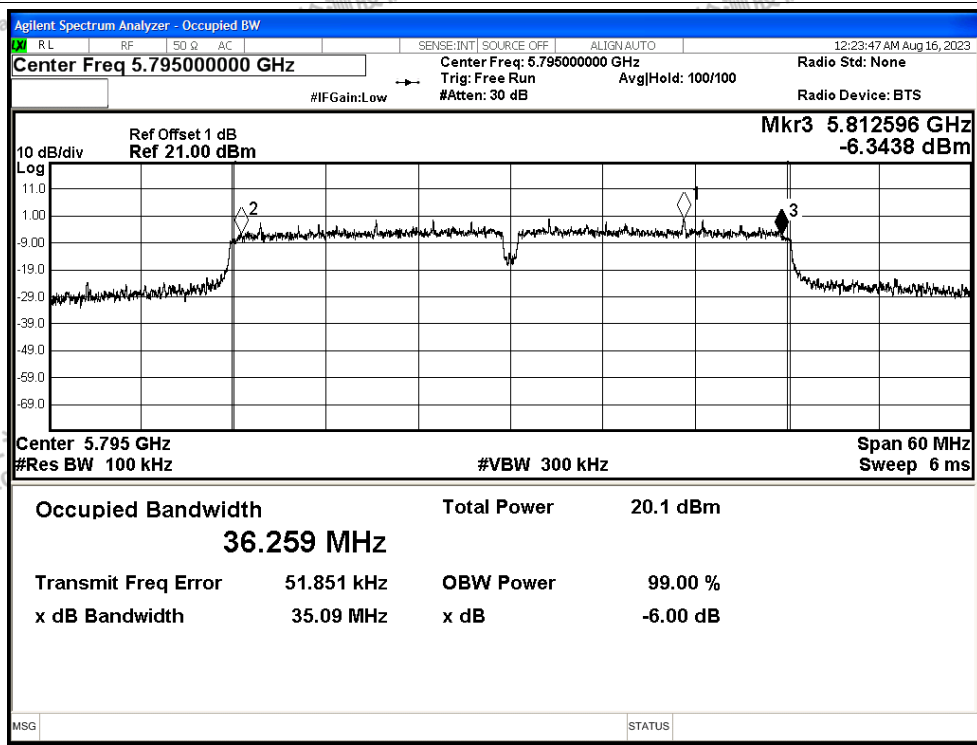




-6dB Bandwidth NVNT n40 5755MHz Ant1

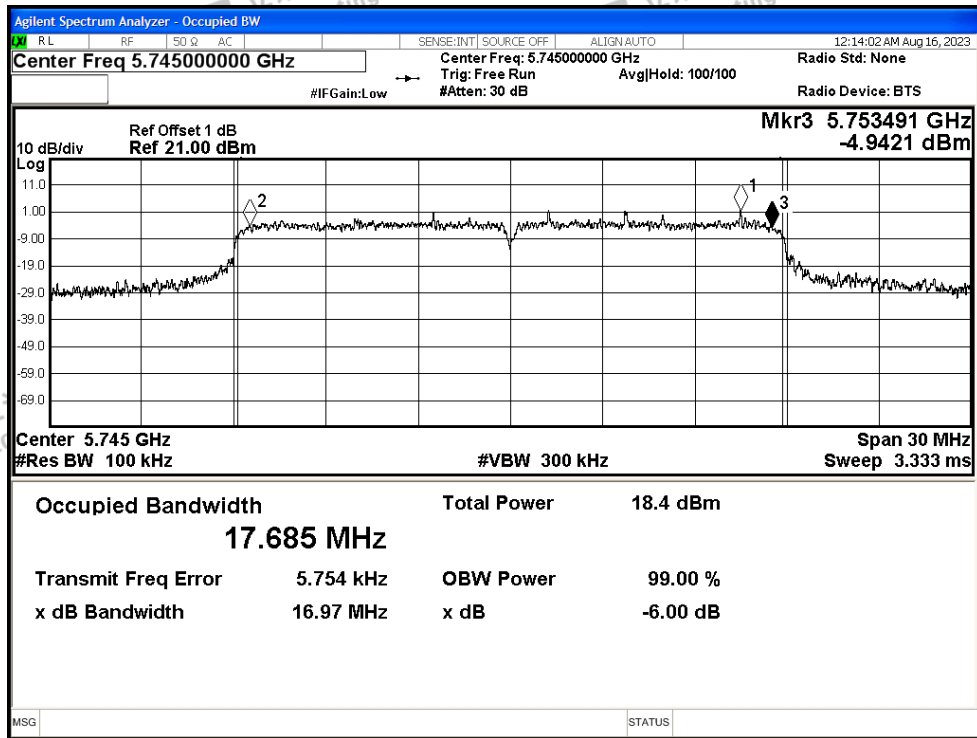


-6dB Bandwidth NVNT n40 5795MHz Ant1

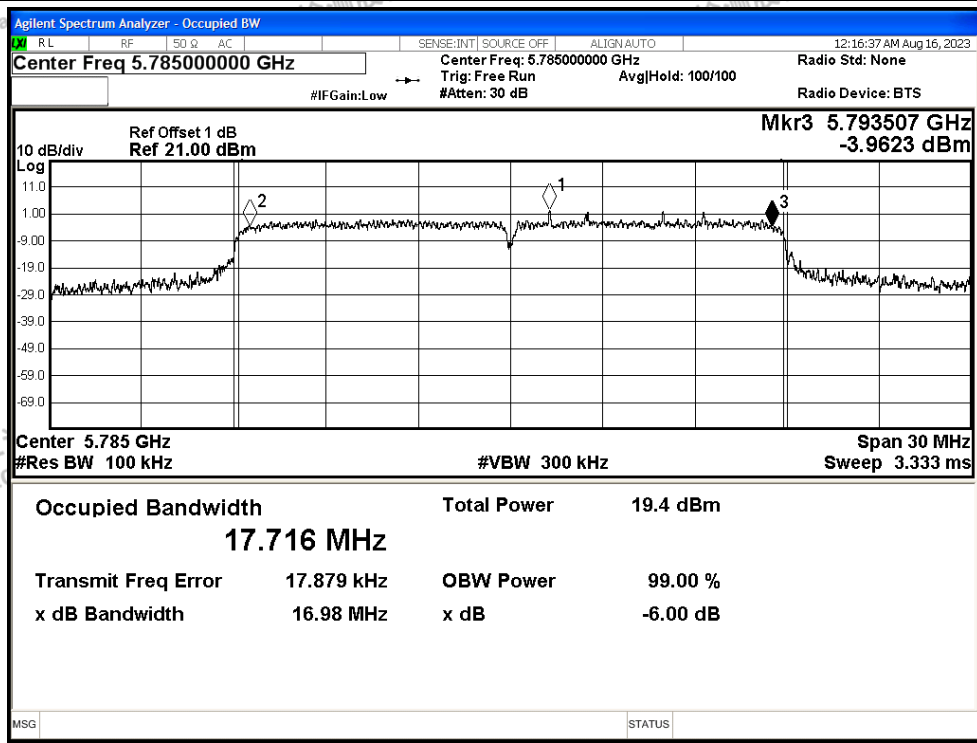




-6dB Bandwidth NVNT ac20 5745MHz Ant1



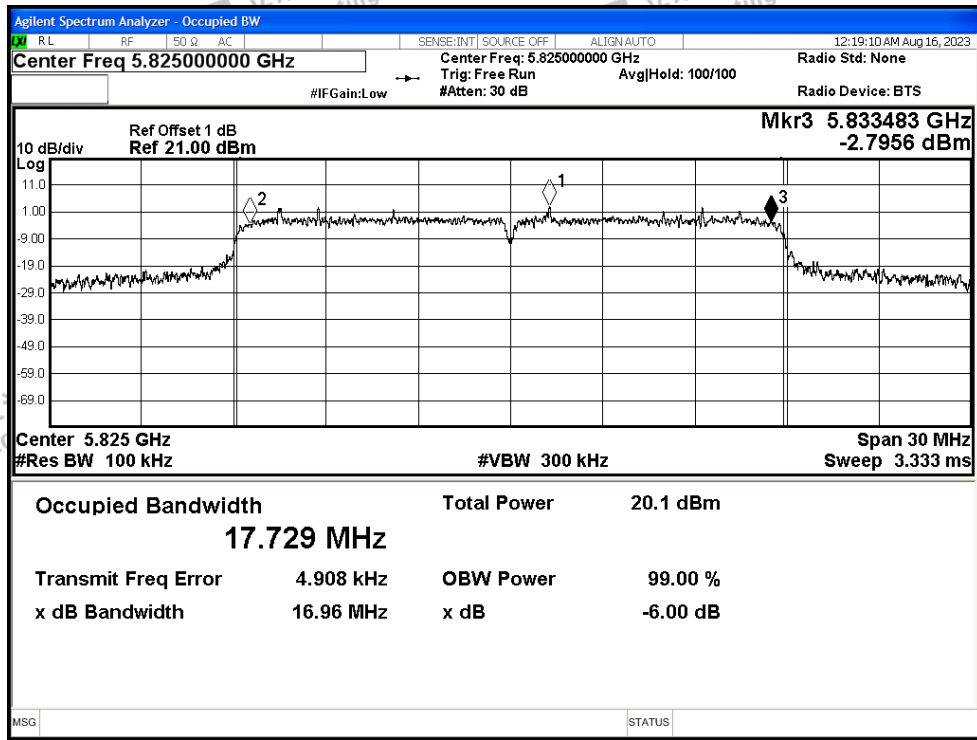
-6dB Bandwidth NVNT ac20 5785MHz Ant1



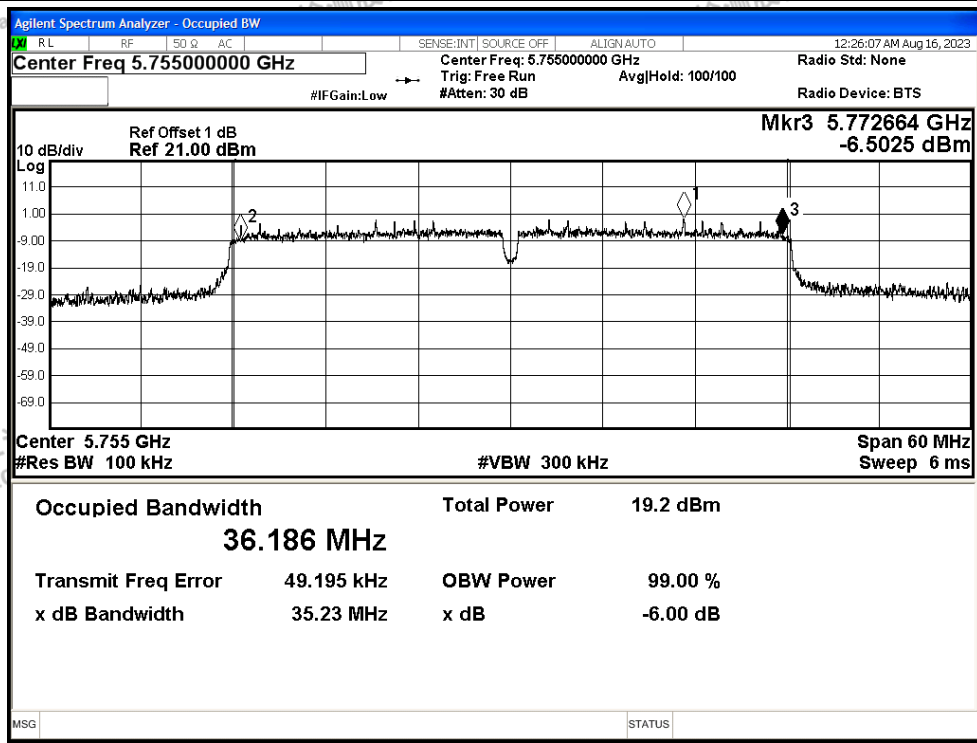




-6dB Bandwidth NVNT ac20 5825MHz Ant1

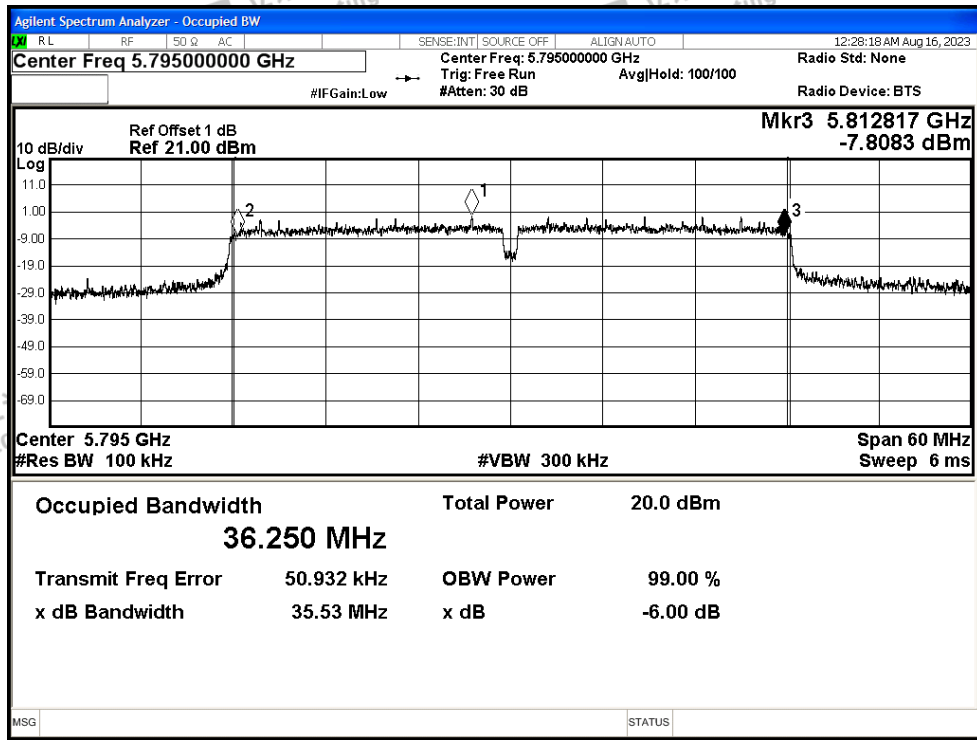


-6dB Bandwidth NVNT ac40 5755MHz Ant1

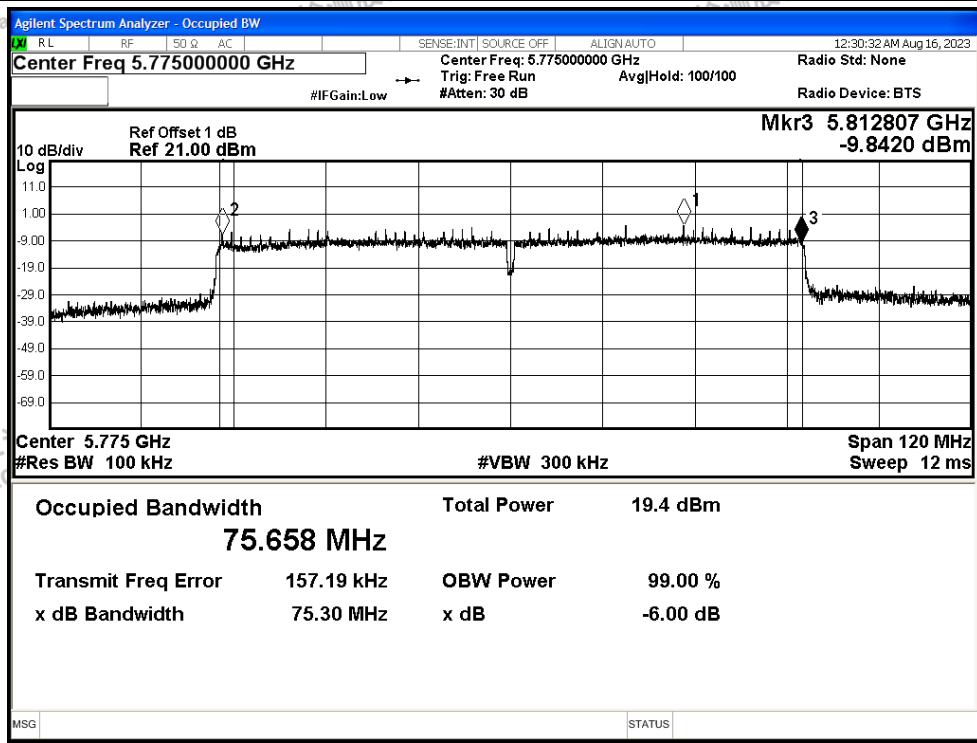




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1





### 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	Ant0	12.07	0.4	12.47	30	Pass
NVNT	a	5785	Ant0	12.57	0.4	12.97	30	Pass
NVNT	a	5825	Ant0	13.48	0.51	13.99	30	Pass
NVNT	n20	5745	Ant0	11.67	0.6	12.27	30	Pass
NVNT	n20	5785	Ant0	12.62	0.47	13.09	30	Pass
NVNT	n20	5825	Ant0	13.34	0.46	13.8	30	Pass
NVNT	n40	5755	Ant0	11.51	0.92	12.43	30	Pass
NVNT	n40	5795	Ant0	12.23	1.14	13.37	30	Pass
NVNT	ac20	5745	Ant0	11.72	0.47	12.19	30	Pass
NVNT	ac20	5785	Ant0	12.55	0.5	13.05	30	Pass
NVNT	ac20	5825	Ant0	13.15	0.47	13.62	30	Pass
NVNT	ac40	5755	Ant0	11.39	0.88	12.27	30	Pass
NVNT	ac40	5795	Ant0	12.53	0.88	13.41	30	Pass
NVNT	ac80	5775	Ant0	11.65	1.67	13.32	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.85	0.39	12.24	30	Pass
NVNT	a	5785	Ant1	12.58	0.39	12.97	30	Pass
NVNT	a	5825	Ant1	13.39	0.55	13.94	30	Pass
NVNT	n20	5745	Ant1	11.64	0.48	12.12	30	Pass
NVNT	n20	5785	Ant1	12.48	0.46	12.94	30	Pass
NVNT	n20	5825	Ant1	13.28	0.51	13.79	30	Pass
NVNT	n40	5755	Ant1	11.33	0.89	12.22	30	Pass
NVNT	n40	5795	Ant1	12.73	0.89	13.62	30	Pass
NVNT	ac20	5745	Ant1	11.72	0.47	12.19	30	Pass
NVNT	ac20	5785	Ant1	12.75	0.49	13.24	30	Pass
NVNT	ac20	5825	Ant1	13.38	0.46	13.84	30	Pass
NVNT	ac40	5755	Ant1	11.25	0.91	12.16	30	Pass
NVNT	ac40	5795	Ant1	12.33	1.1	13.43	30	Pass
NVNT	ac80	5775	Ant1	11.11	2.05	13.16	30	Pass



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Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	12.27	12.12	15.21	30	Pass
NVNT	n20	5785	13.09	12.94	16.03	30	Pass
NVNT	n20	5825	13.8	13.79	16.81	30	Pass
NVNT	n40	5755	12.43	12.22	15.34	30	Pass
NVNT	n40	5795	13.37	13.62	16.51	30	Pass
NVNT	ac20	5745	12.19	12.19	15.20	30	Pass
NVNT	ac20	5785	13.05	13.24	16.16	30	Pass
NVNT	ac20	5825	13.62	13.84	16.74	30	Pass
NVNT	ac40	5755	12.27	12.16	15.23	30	Pass
NVNT	ac40	5795	13.41	13.43	16.43	30	Pass
NVNT	ac80	5775	13.32	13.16	16.25	30	Pass

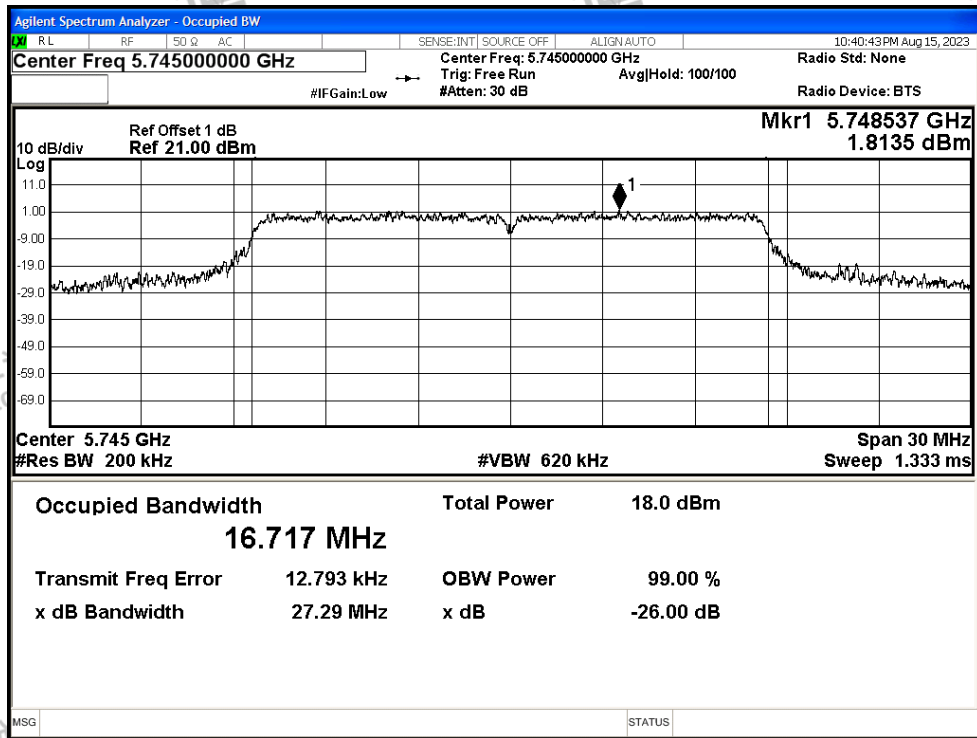


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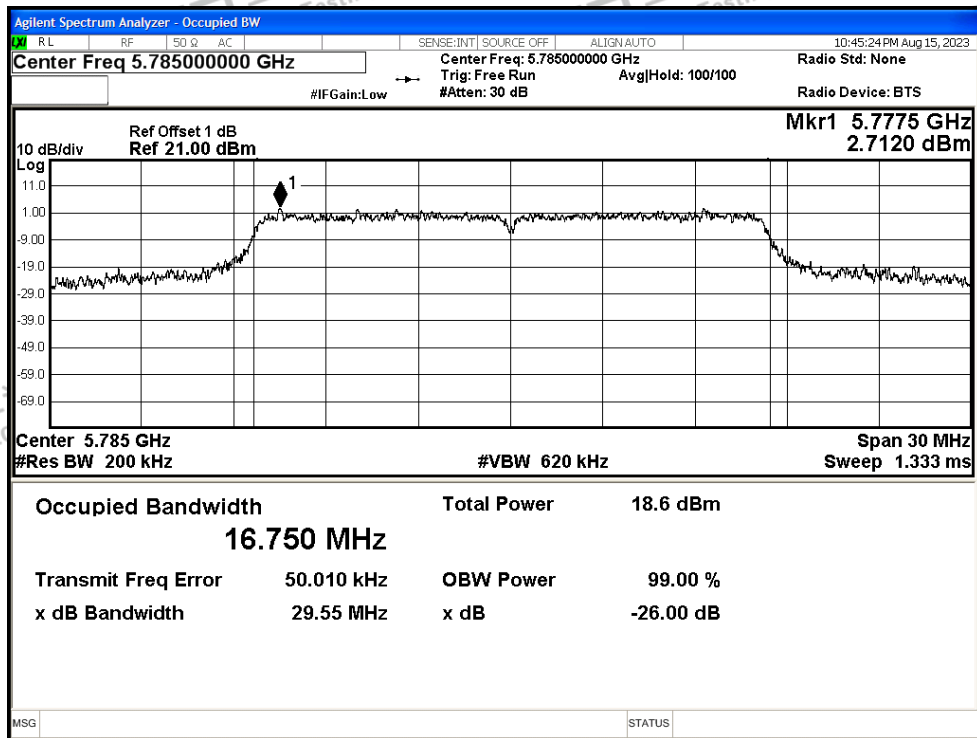


Test Graphs

OBW NVNT a 5745MHz Ant0

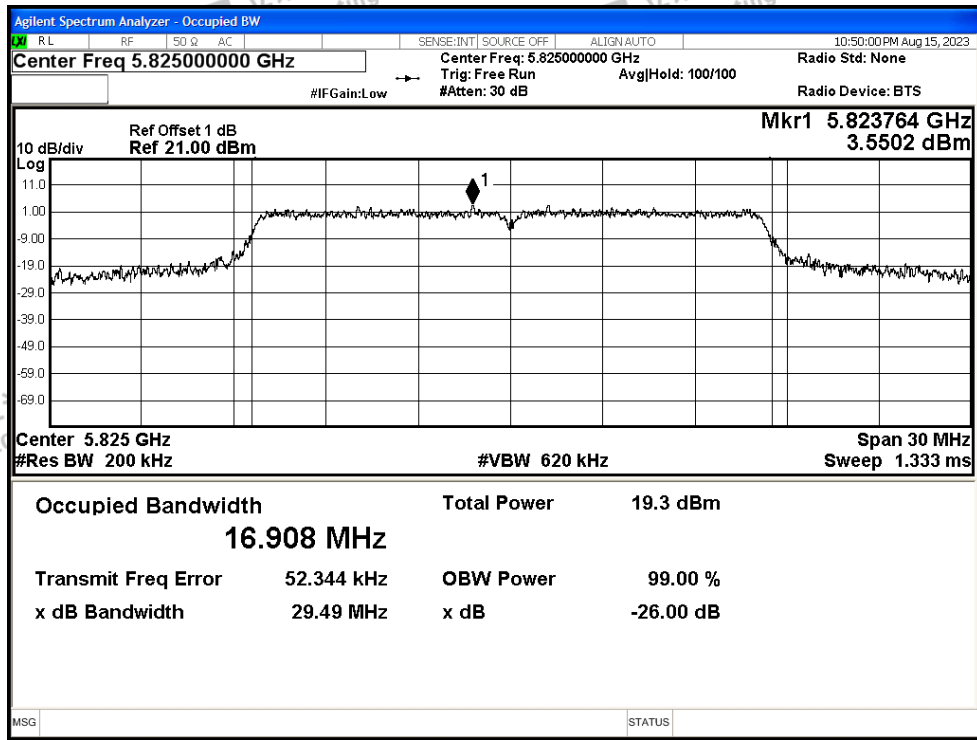


OBW NVNT a 5785MHz Ant0

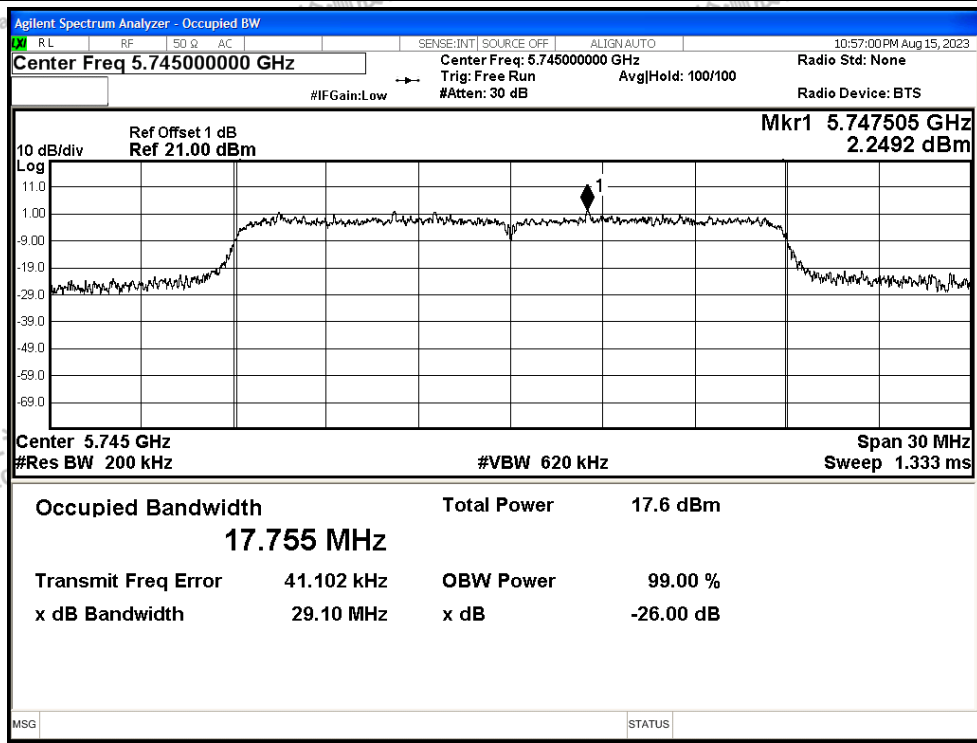




OBW:NVNT a 5825MHz Ant0

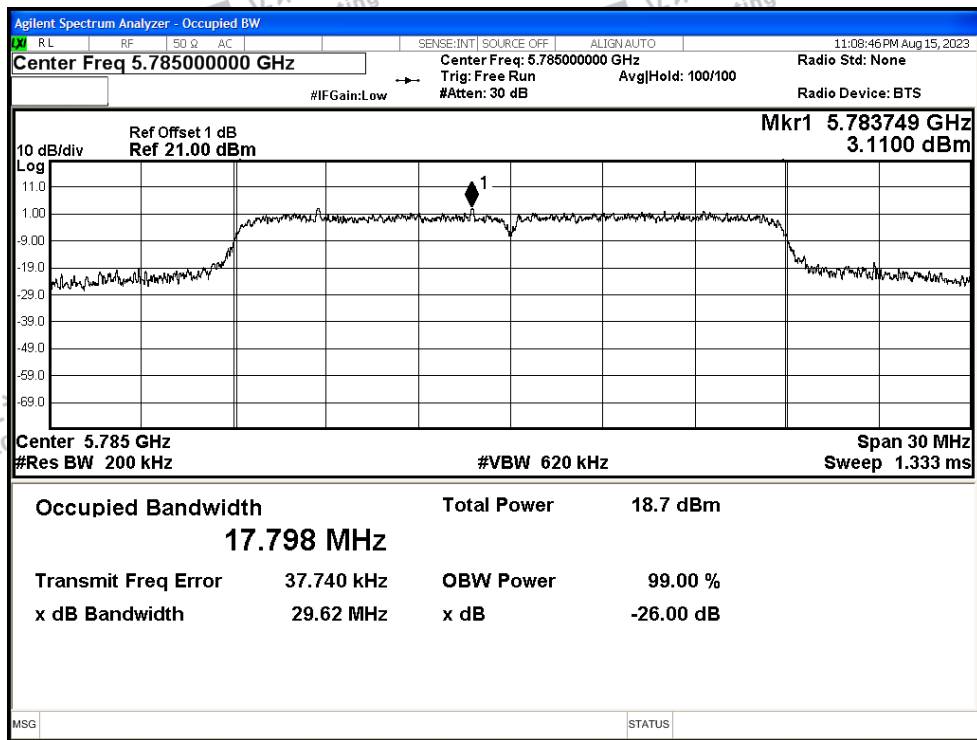


OBW:NVNT n20 5745MHz Ant0

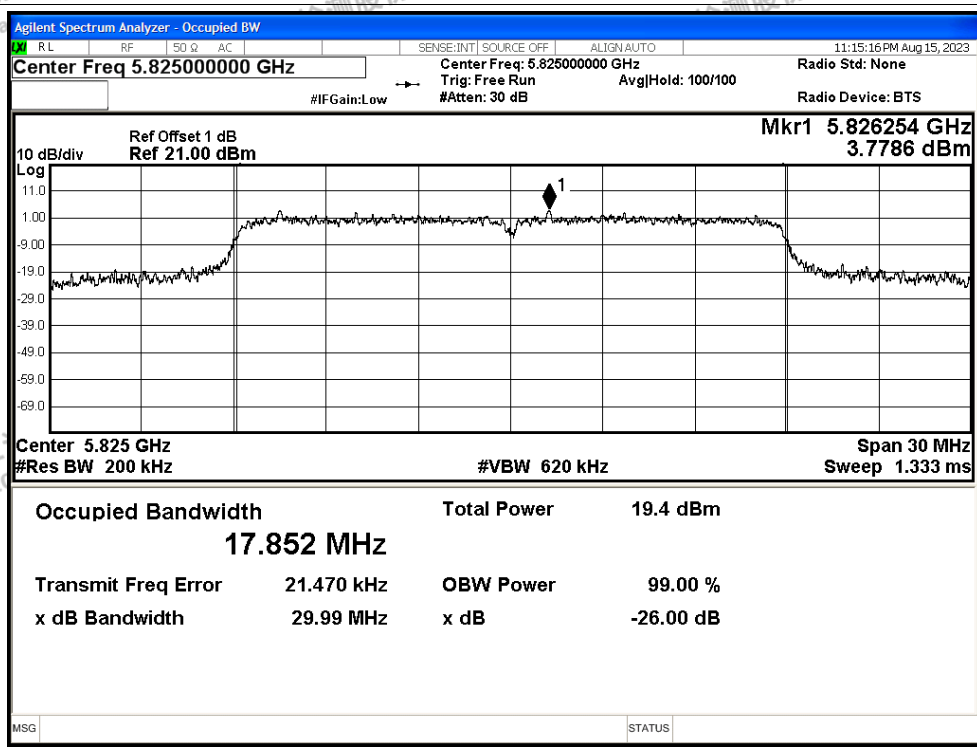




OBW\_NVNT n20 5785MHz Ant0



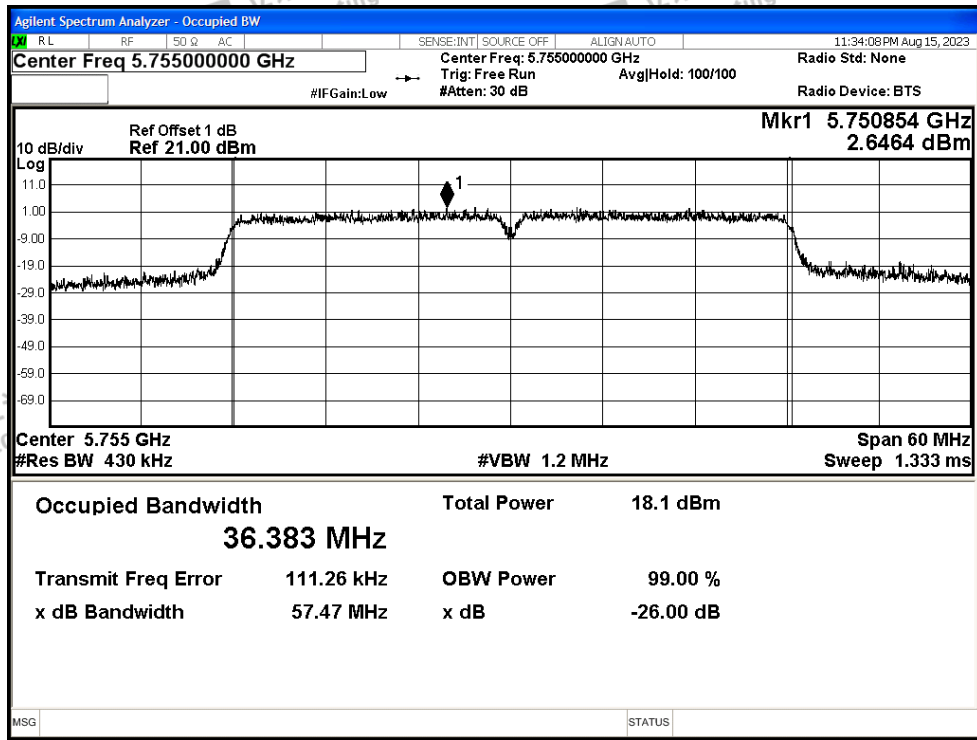
OBW\_NVNT n20 5825MHz Ant0



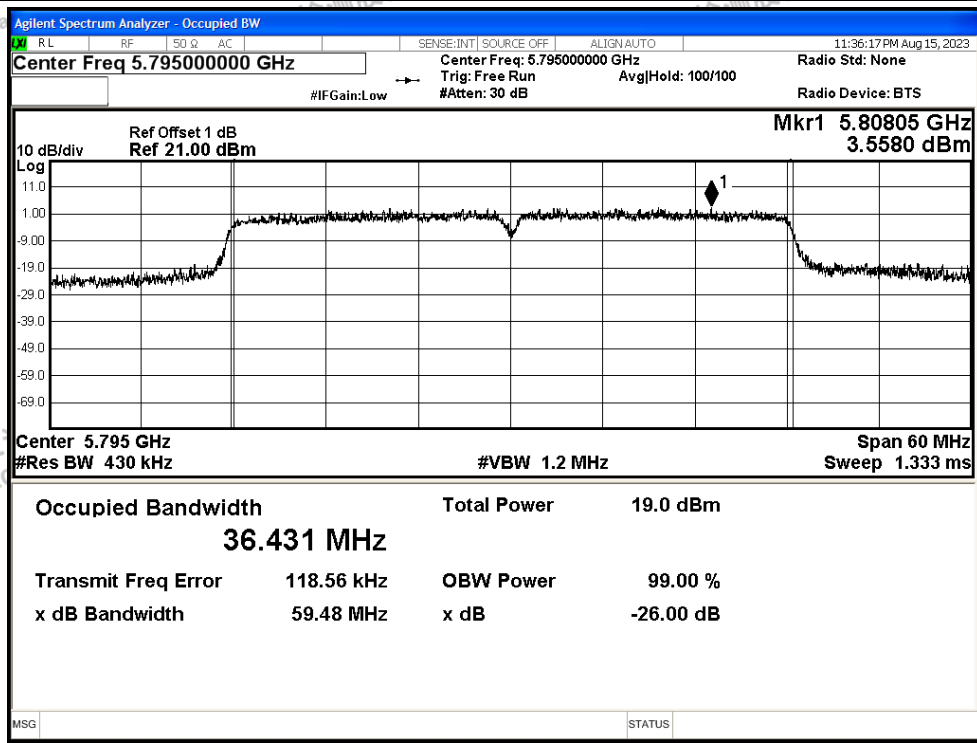




OBW\_NVNT n40 5755MHz Ant0

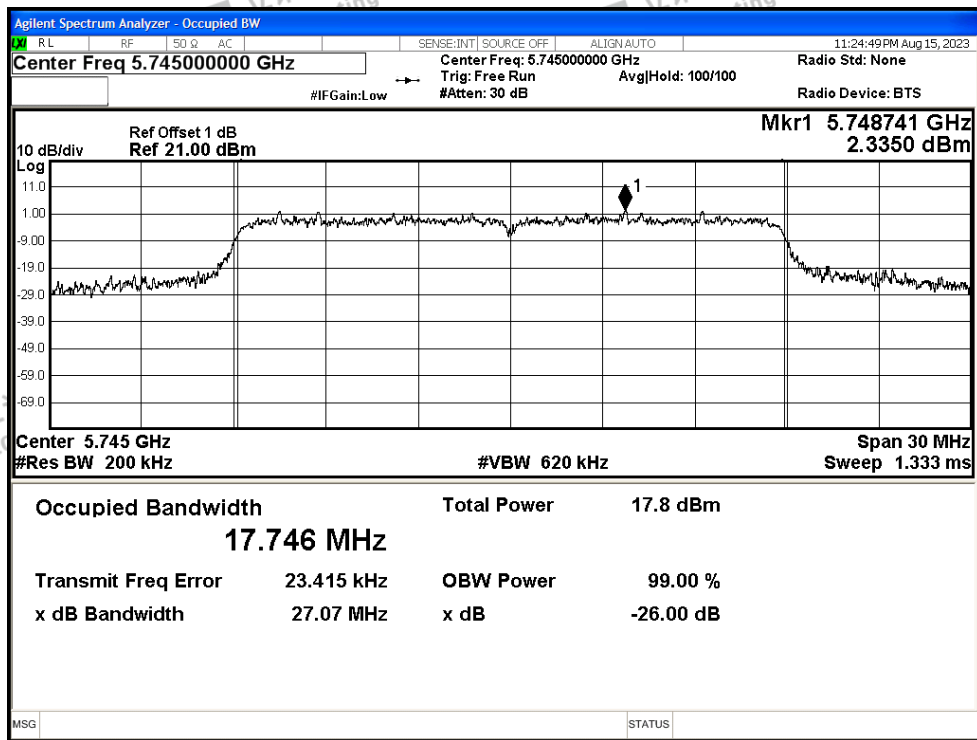


OBW\_NVNT n40 5795MHz Ant0

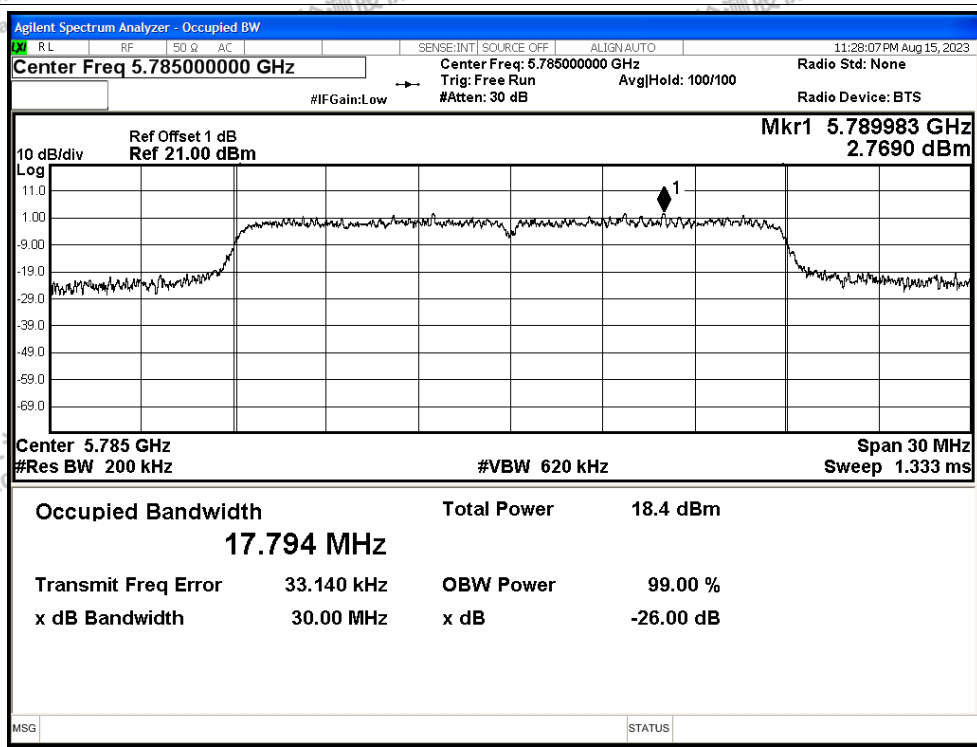




OBW NVNT ac20 5745MHz Ant0

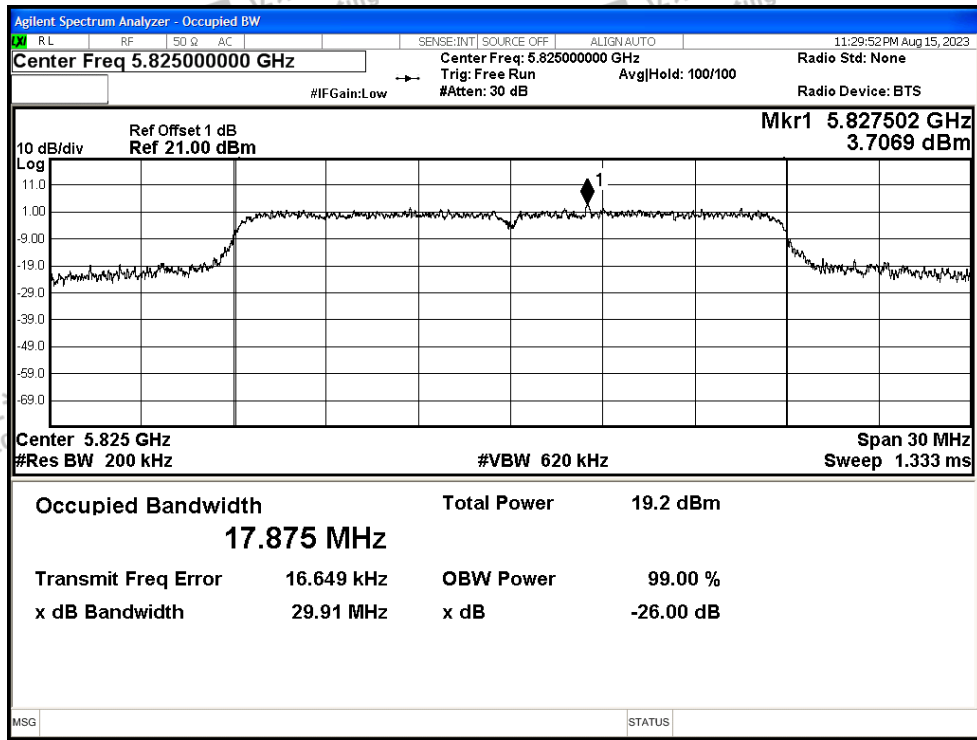


OBW NVNT ac20 5785MHz Ant0

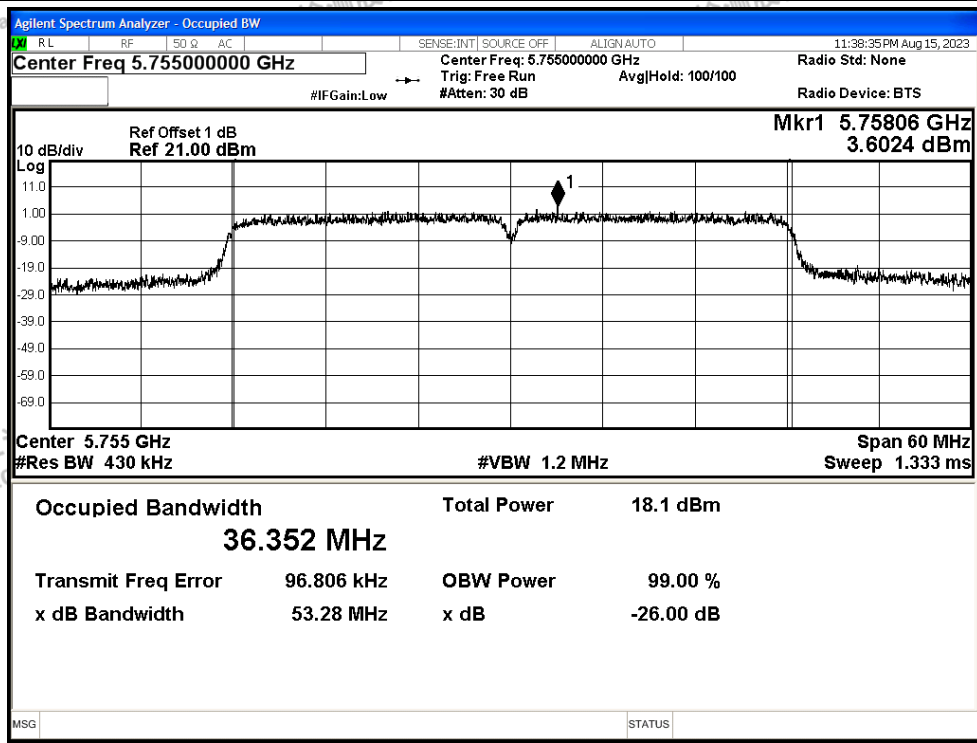




OBW NVNT ac20 5825MHz Ant0

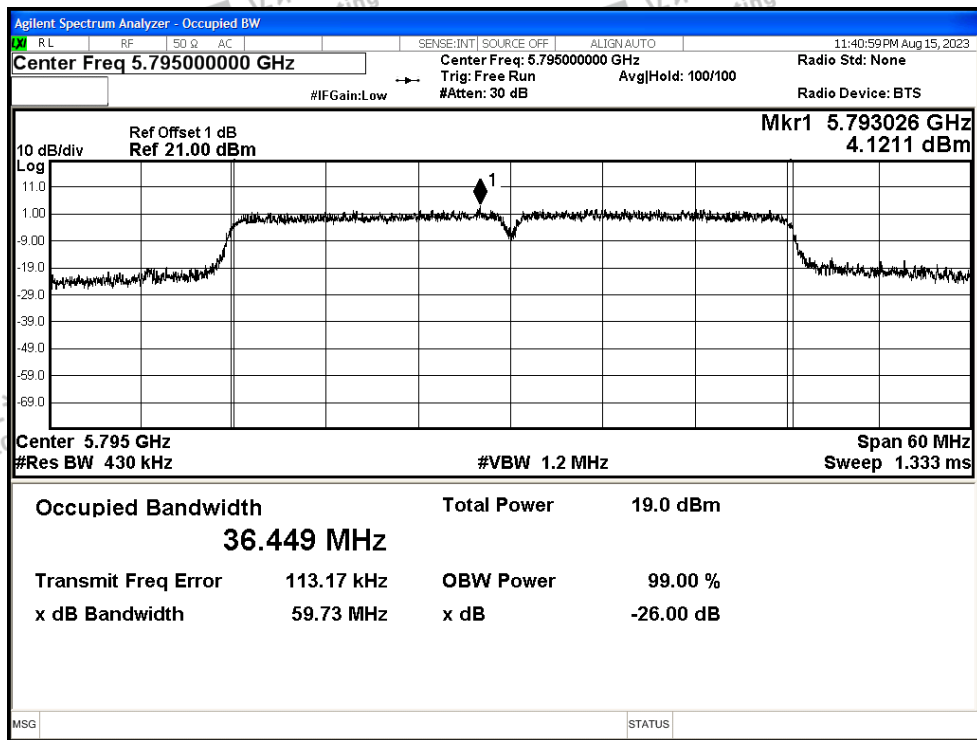


OBW NVNT ac40 5755MHz Ant0

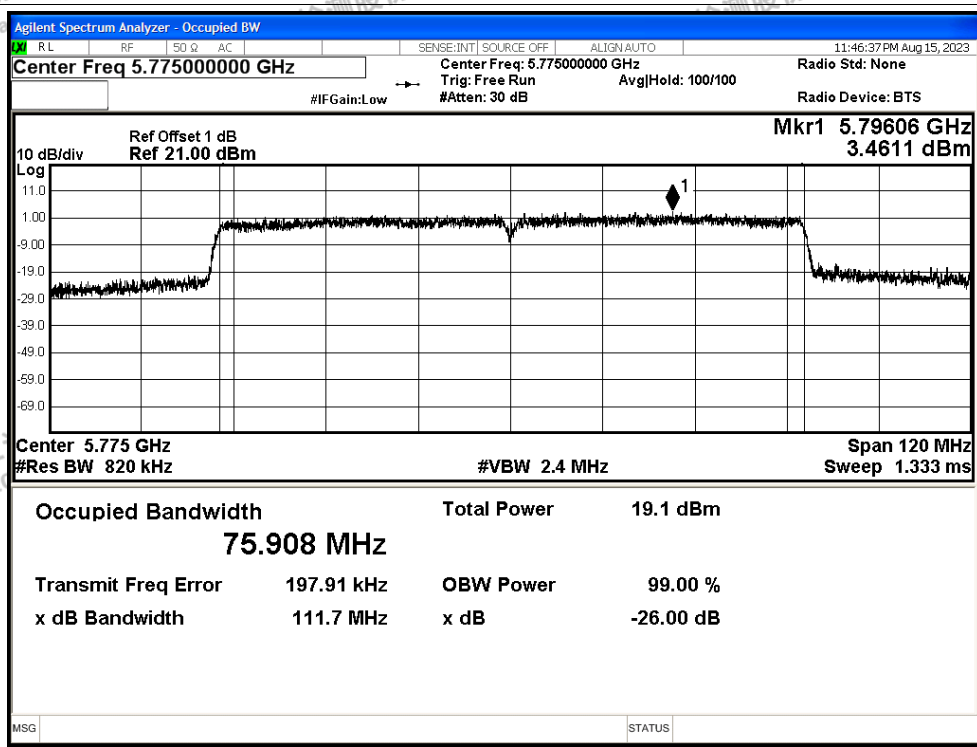




OBW NVNT ac40 5795MHz Ant0



OBW NVNT ac80 5775MHz Ant0





### E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant0	-8.13	0.4	-7.73	30	Pass
NVNT	a	5785	Ant0	-5.92	0.4	-5.52	30	Pass
NVNT	a	5825	Ant0	-5.37	0.51	-4.86	30	Pass
NVNT	n20	5745	Ant0	-7	0.6	-6.4	30	Pass
NVNT	n20	5785	Ant0	-6.29	0.47	-5.82	30	Pass
NVNT	n20	5825	Ant0	-5.82	0.46	-5.36	30	Pass
NVNT	n40	5755	Ant0	-14.53	0.92	-13.61	30	Pass
NVNT	n40	5795	Ant0	-12.77	1.14	-11.63	30	Pass
NVNT	ac20	5745	Ant0	-6.26	0.47	-5.79	30	Pass
NVNT	ac20	5785	Ant0	-4.52	0.5	-4.02	30	Pass
NVNT	ac20	5825	Ant0	-4.76	0.47	-4.29	30	Pass
NVNT	ac40	5755	Ant0	-14.65	0.88	-13.77	30	Pass
NVNT	ac40	5795	Ant0	-8.53	0.88	-7.65	30	Pass
NVNT	ac80	5775	Ant0	-23.77	1.67	-22.1	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-6.93	0.39	-6.54	30	Pass
NVNT	a	5785	Ant1	-7.54	0.39	-7.15	30	Pass
NVNT	a	5825	Ant1	-5.14	0.55	-4.59	30	Pass
NVNT	n20	5745	Ant1	-7.3	0.48	-6.82	30	Pass
NVNT	n20	5785	Ant1	-5.01	0.46	-4.55	30	Pass
NVNT	n20	5825	Ant1	-4.37	0.51	-3.86	30	Pass
NVNT	n40	5755	Ant1	-11.84	0.89	-10.95	30	Pass
NVNT	n40	5795	Ant1	-13.44	0.89	-12.55	30	Pass
NVNT	ac20	5745	Ant1	-7.91	0.47	-7.44	30	Pass
NVNT	ac20	5785	Ant1	-6.02	0.49	-5.53	30	Pass
NVNT	ac20	5825	Ant1	-4.97	0.46	-4.51	30	Pass
NVNT	ac40	5755	Ant1	-13.48	0.91	-12.57	30	Pass
NVNT	ac40	5795	Ant1	-10.89	1.1	-9.79	30	Pass
NVNT	ac80	5775	Ant1	-21.69	2.05	-19.64	30	Pass



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 Scan code to check authenticity



MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	-6.4	-6.82	-3.59	30	Pass
NVNT	n20	5785	-5.82	-4.55	-2.13	30	Pass
NVNT	n20	5825	-5.36	-3.86	-1.54	30	Pass
NVNT	n40	5755	-13.61	-10.95	-9.07	30	Pass
NVNT	n40	5795	-11.63	-12.55	-9.06	30	Pass
NVNT	ac20	5745	-5.79	-7.44	-3.53	30	Pass
NVNT	ac20	5785	-4.02	-5.53	-1.70	30	Pass
NVNT	ac20	5825	-4.29	-4.51	-1.39	30	Pass
NVNT	ac40	5755	-13.77	-12.57	-10.12	30	Pass
NVNT	ac40	5795	-7.65	-9.79	-5.58	30	Pass
NVNT	ac80	5775	-22.1	-19.64	-17.69	30	Pass

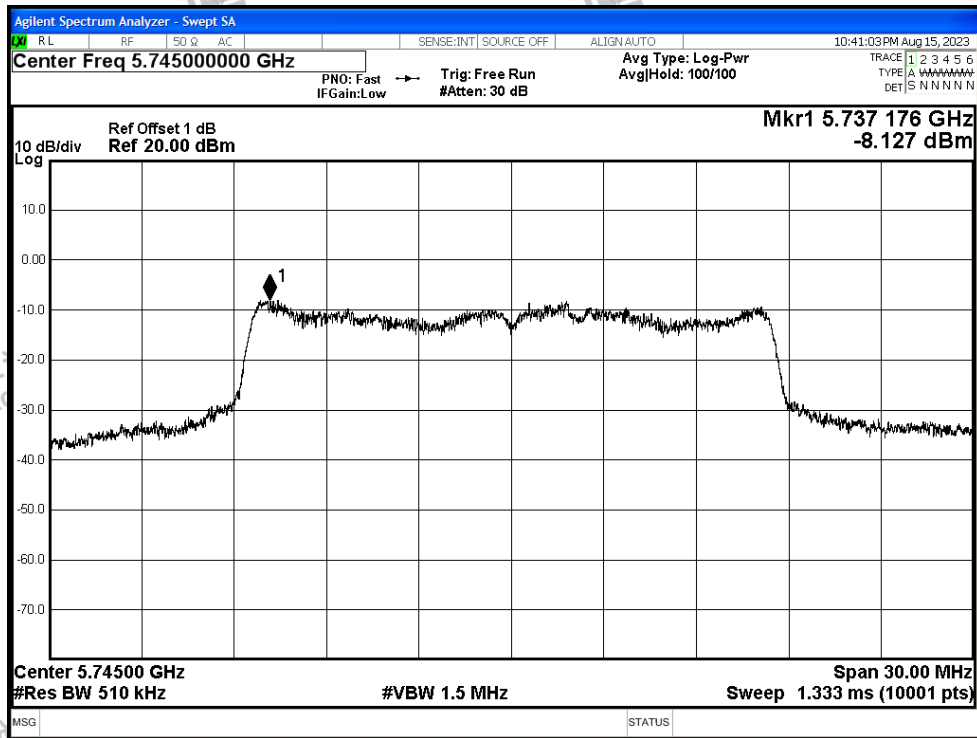


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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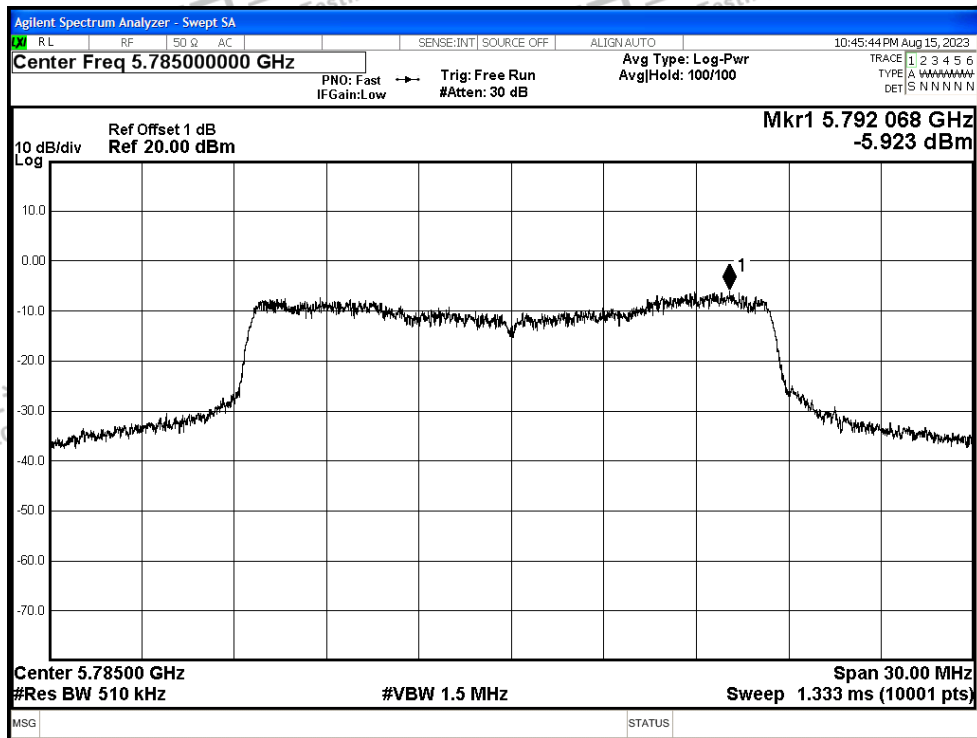


Test Graphs

PSD NVNT a 5745MHz Ant0



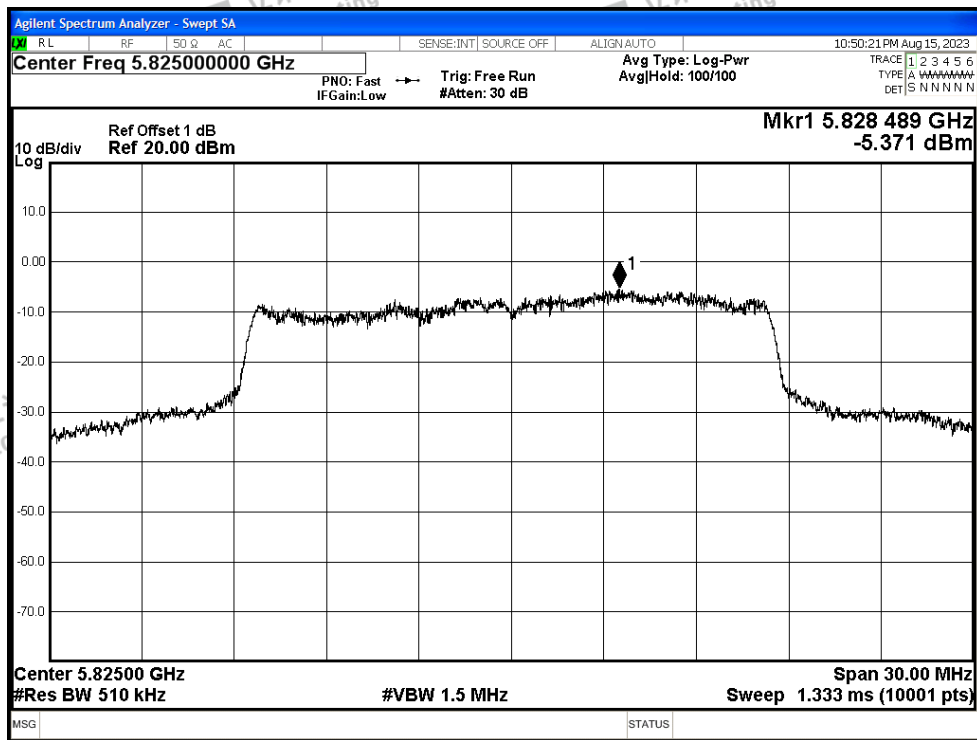
PSD NVNT a 5785MHz Ant0



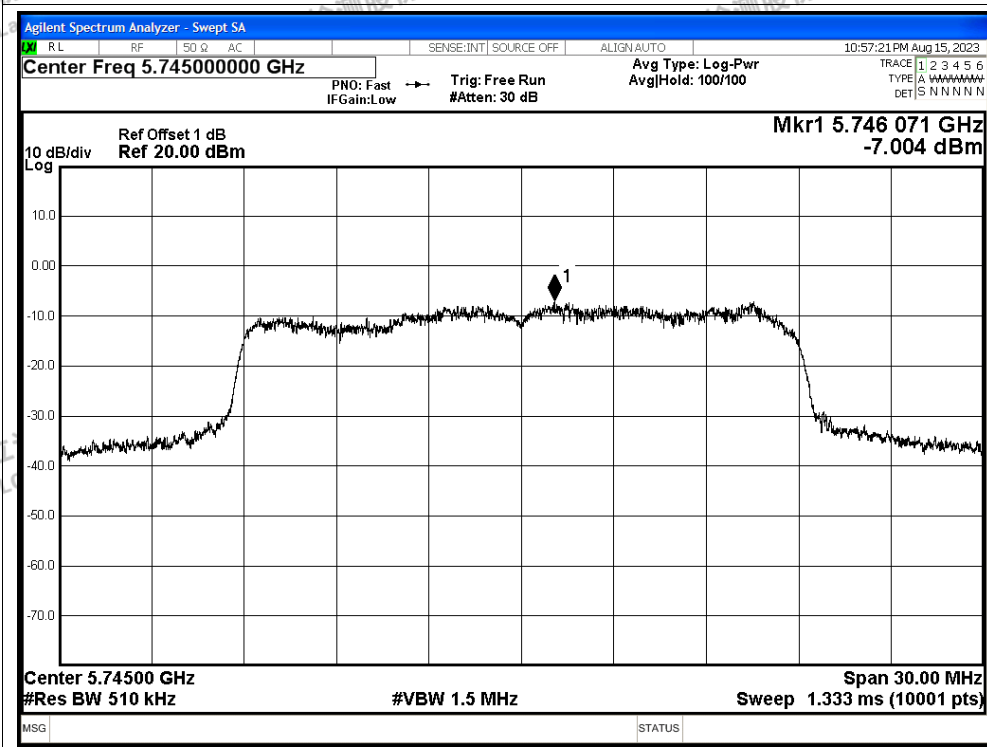




PSD NVNT a 5825MHz Ant0

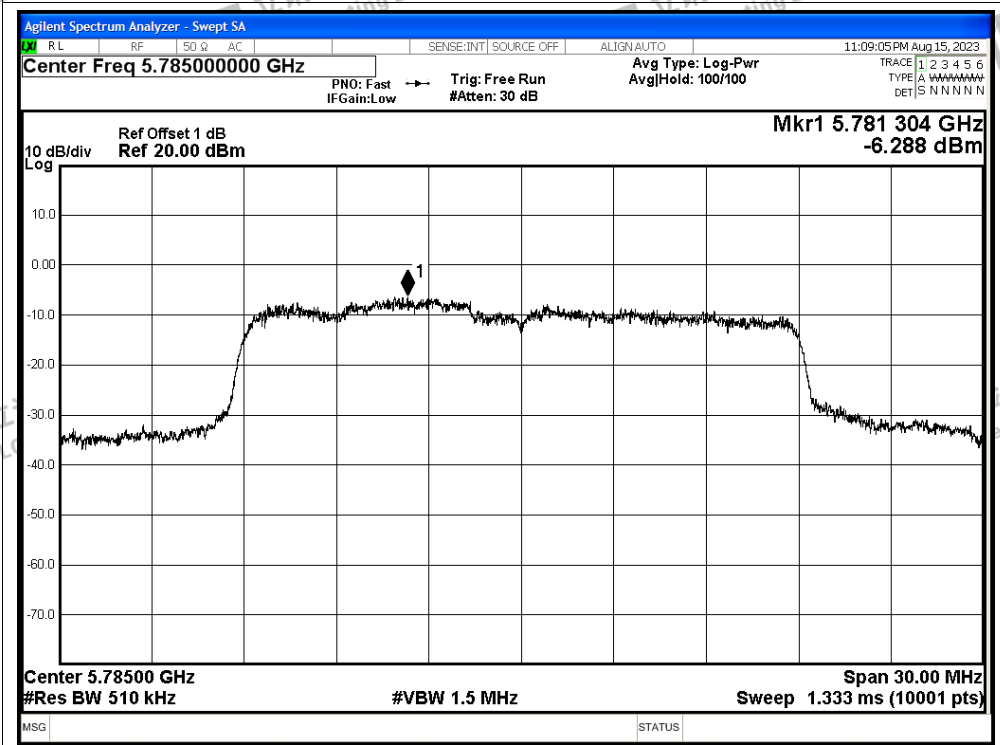


PSD NVNT n20 5745MHz Ant0

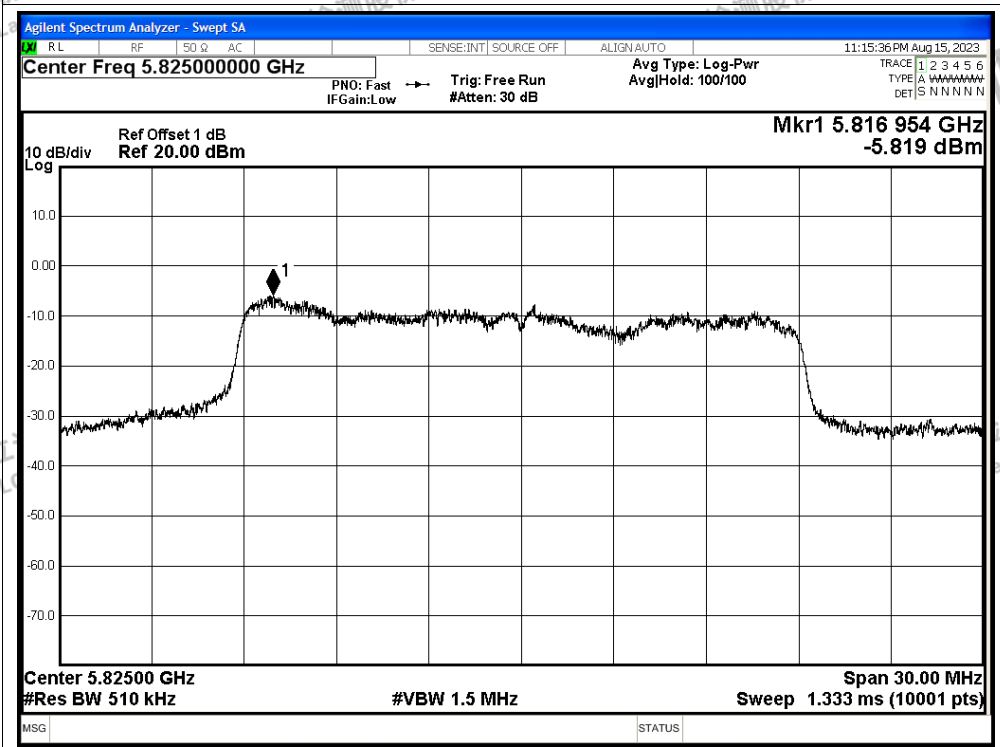




PSD NVNT n20 5785MHz Ant0

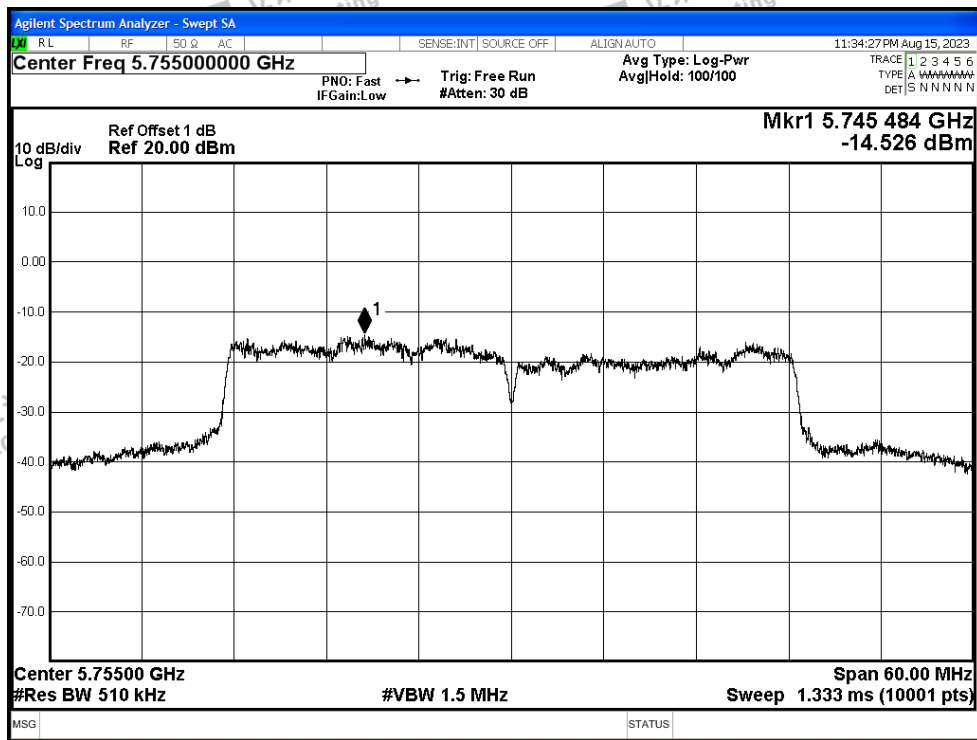


PSD NVNT n20 5825MHz Ant0

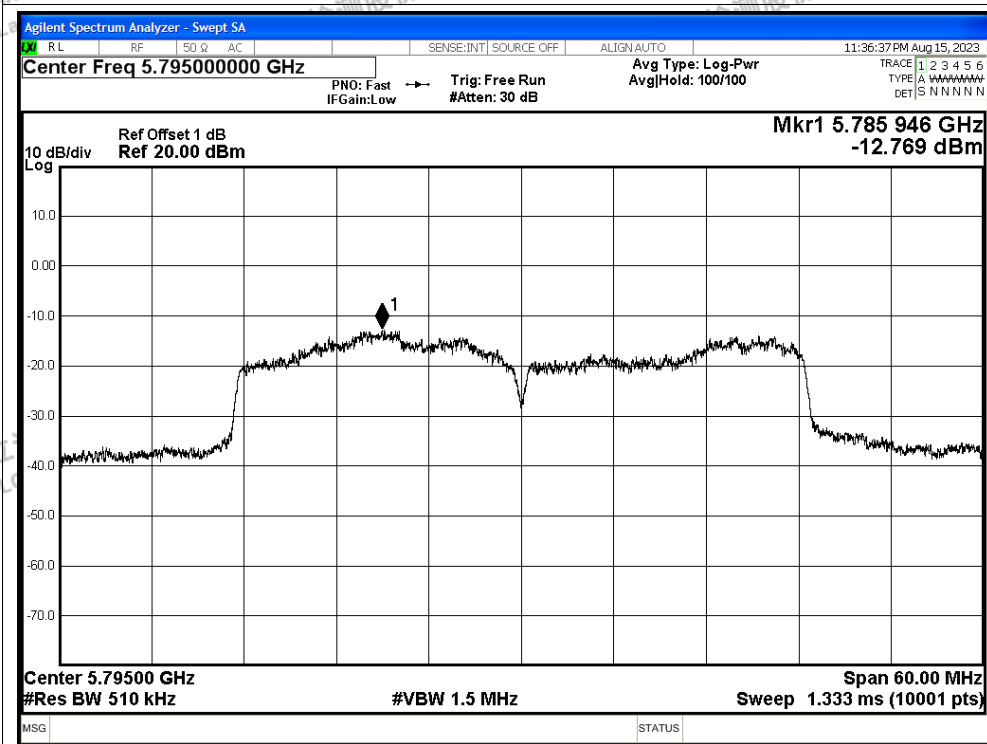


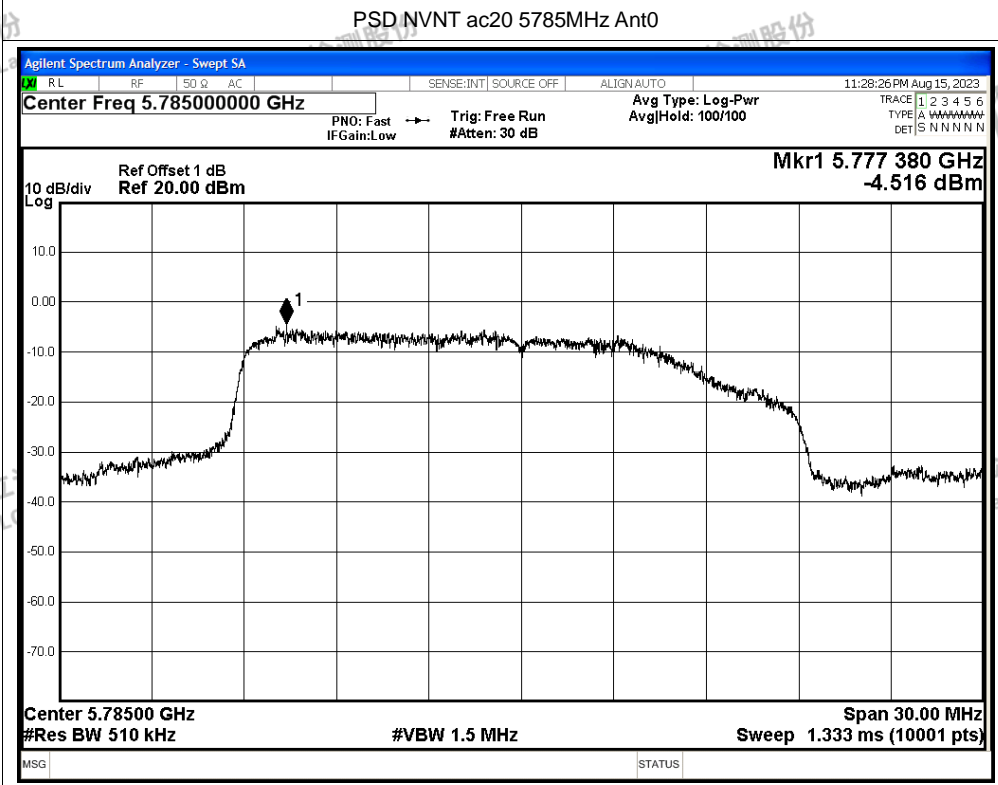
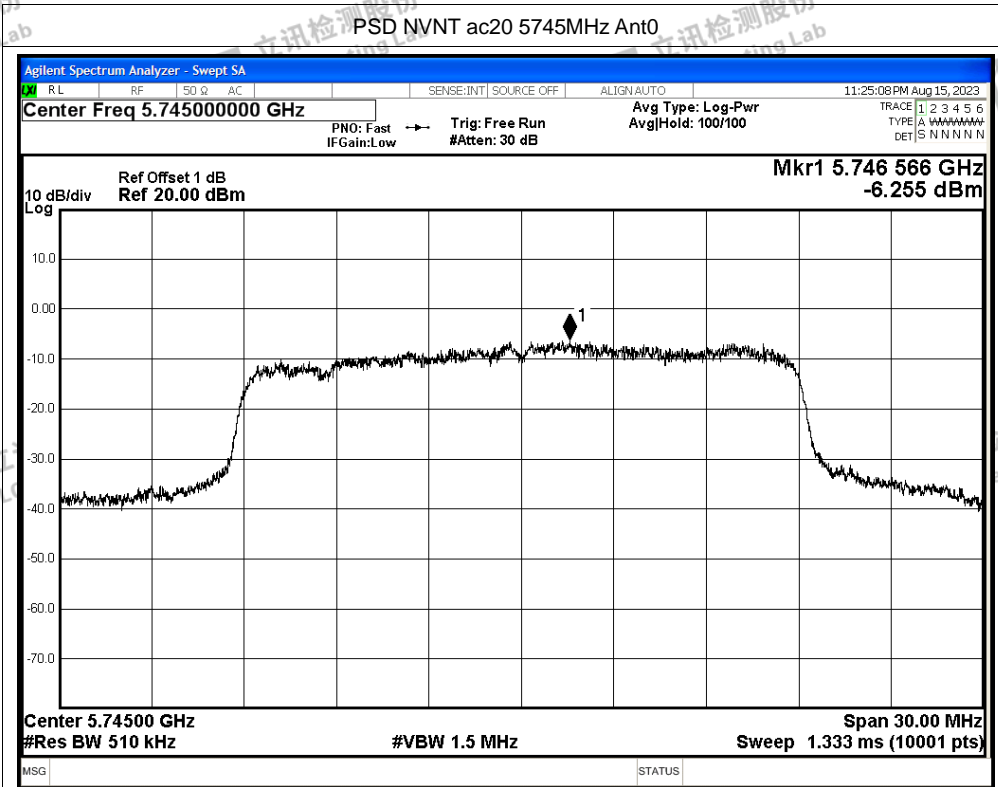


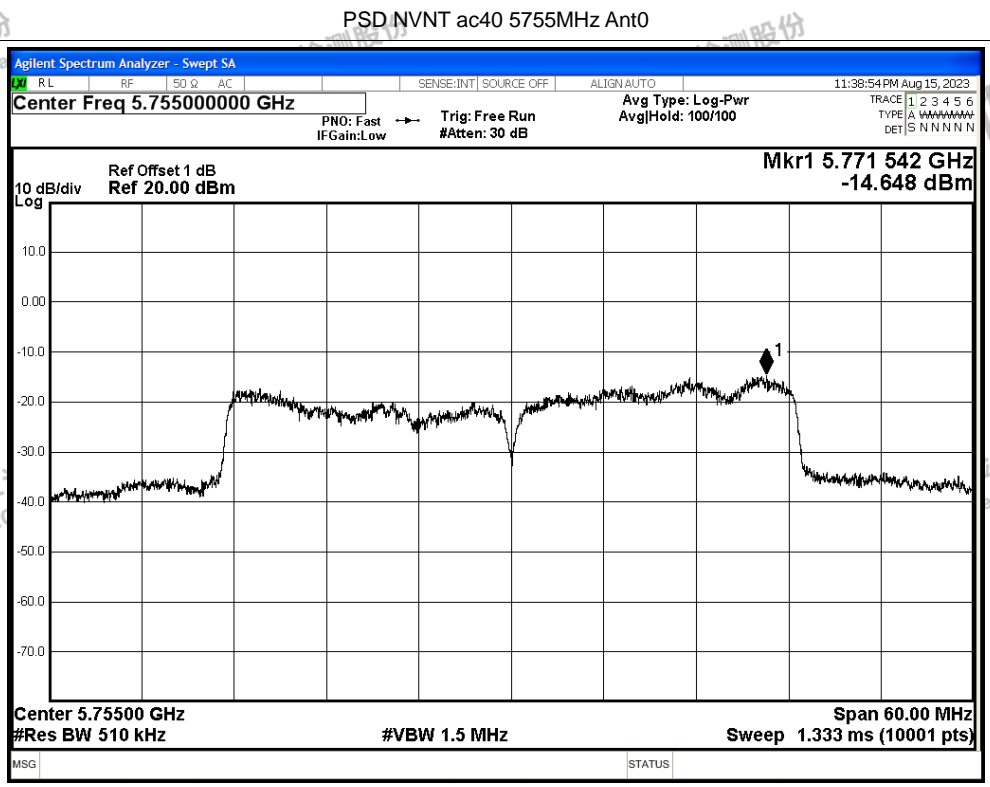
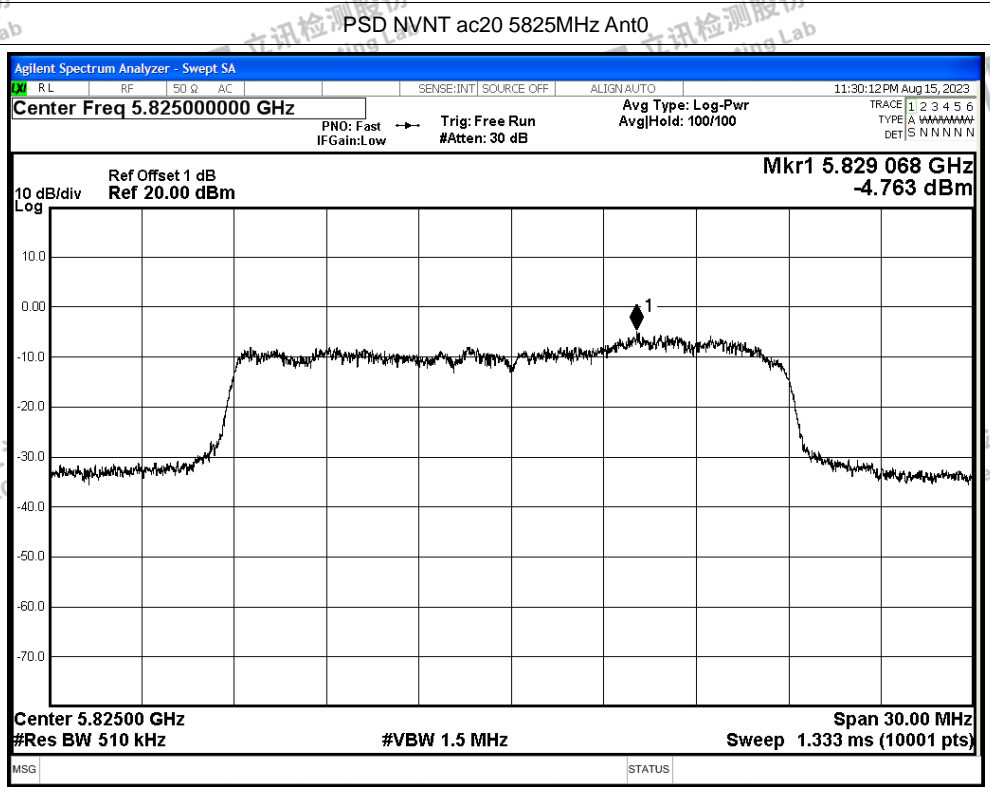
PSD NVNT n40 5755MHz Ant0

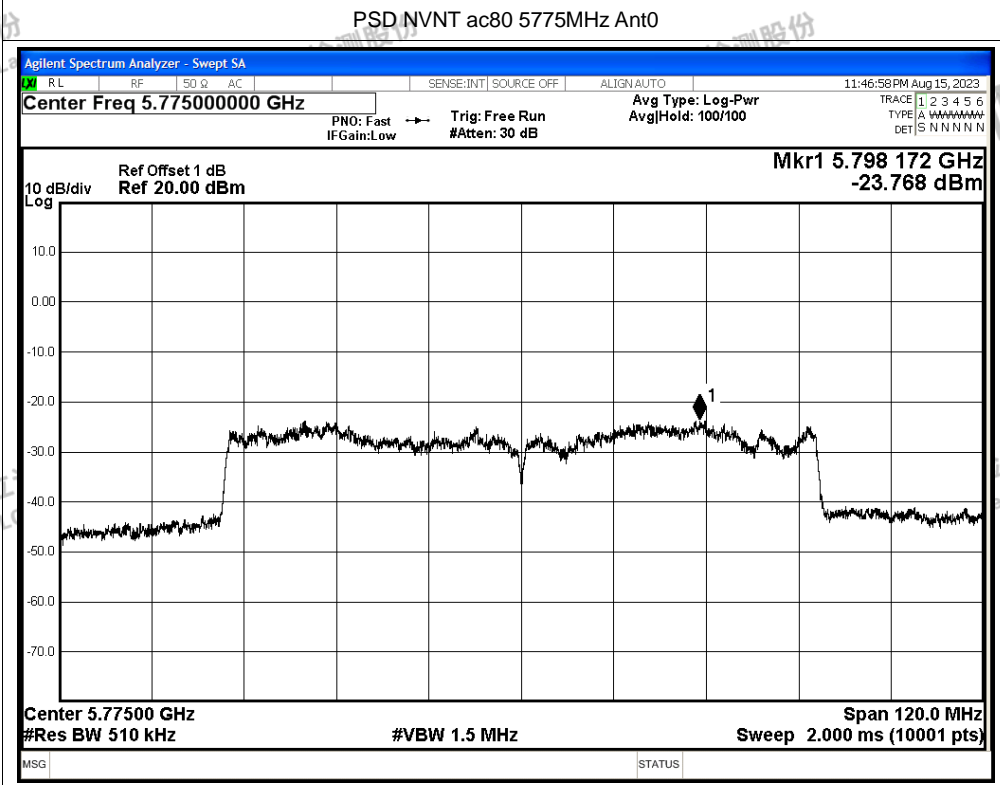
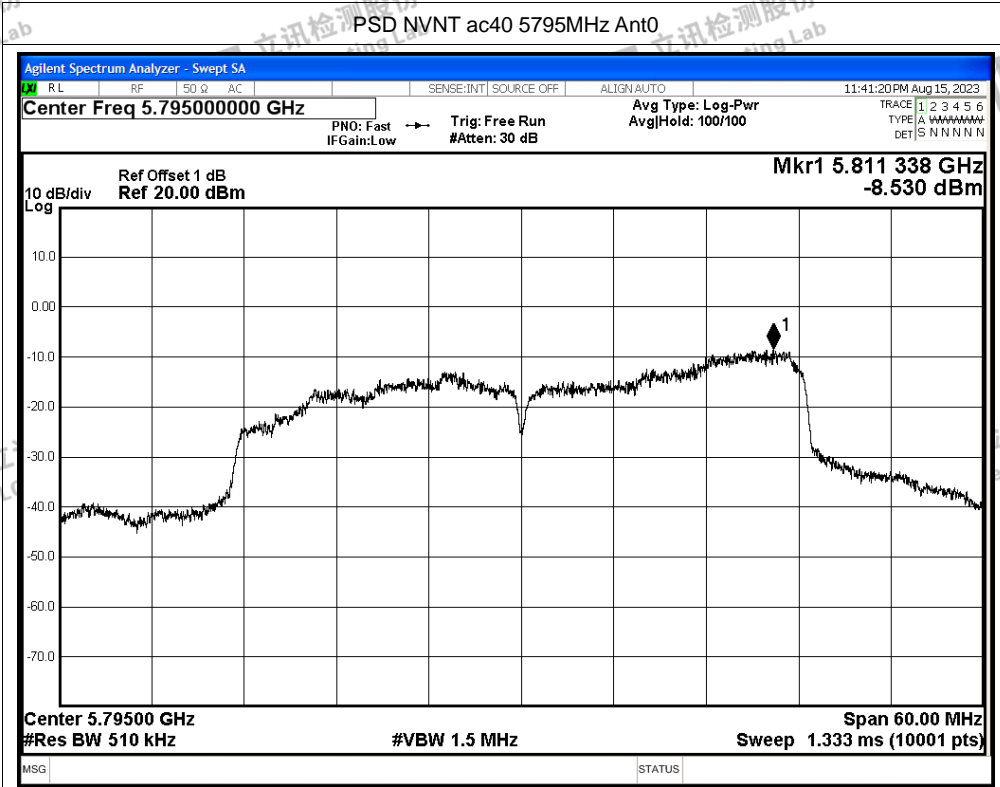


PSD NVNT n40 5795MHz Ant0





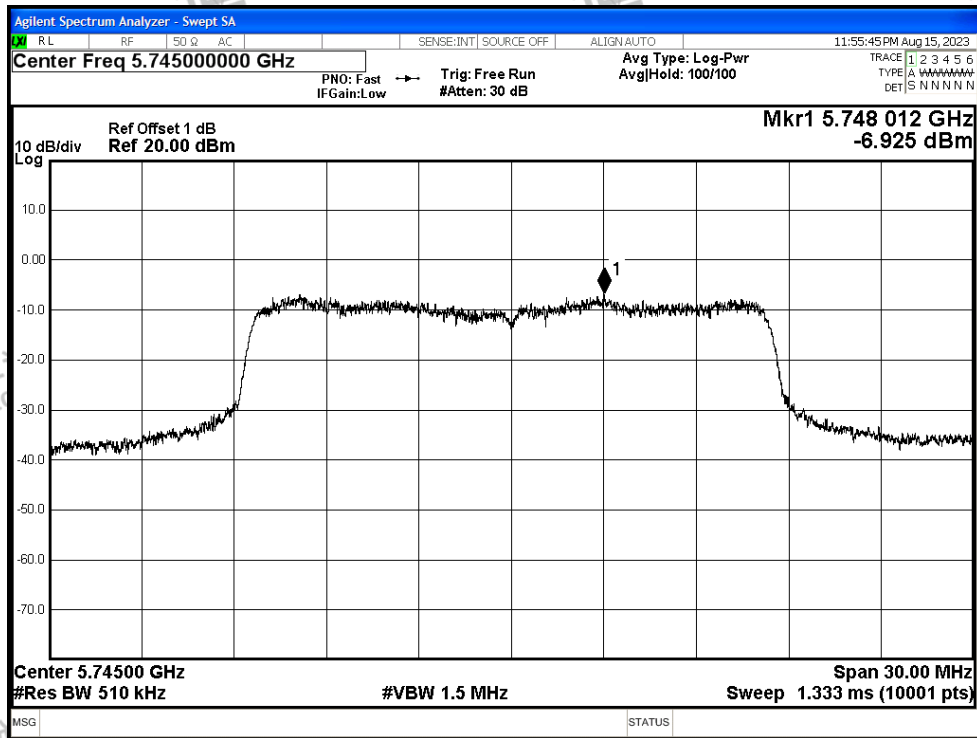




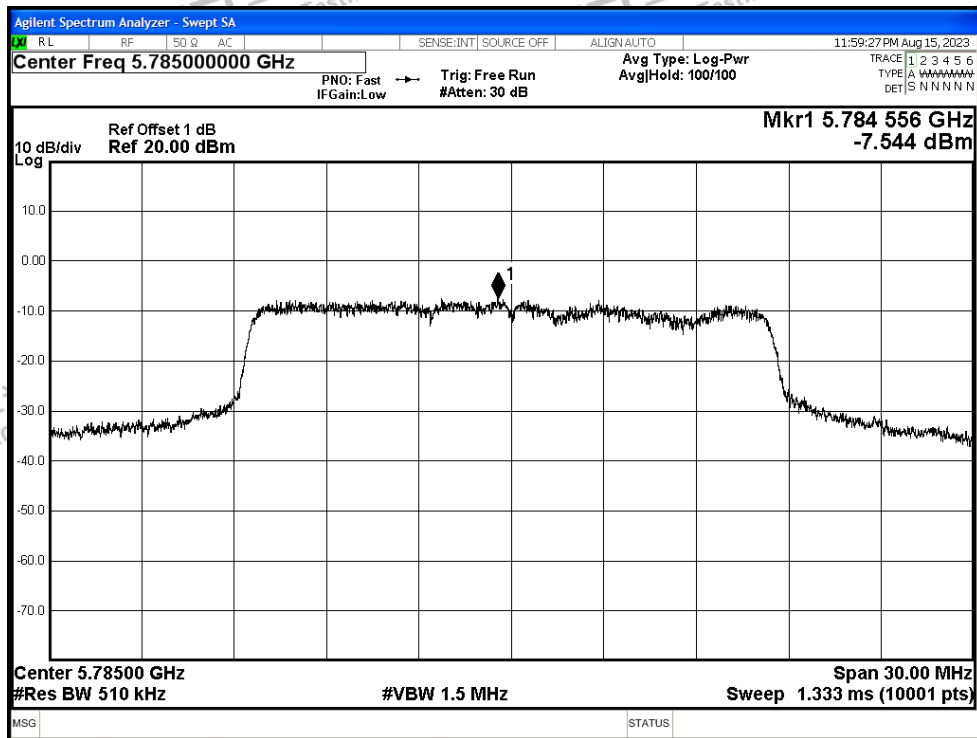


Test Graphs

PSD NVNT a 5745MHz Ant1



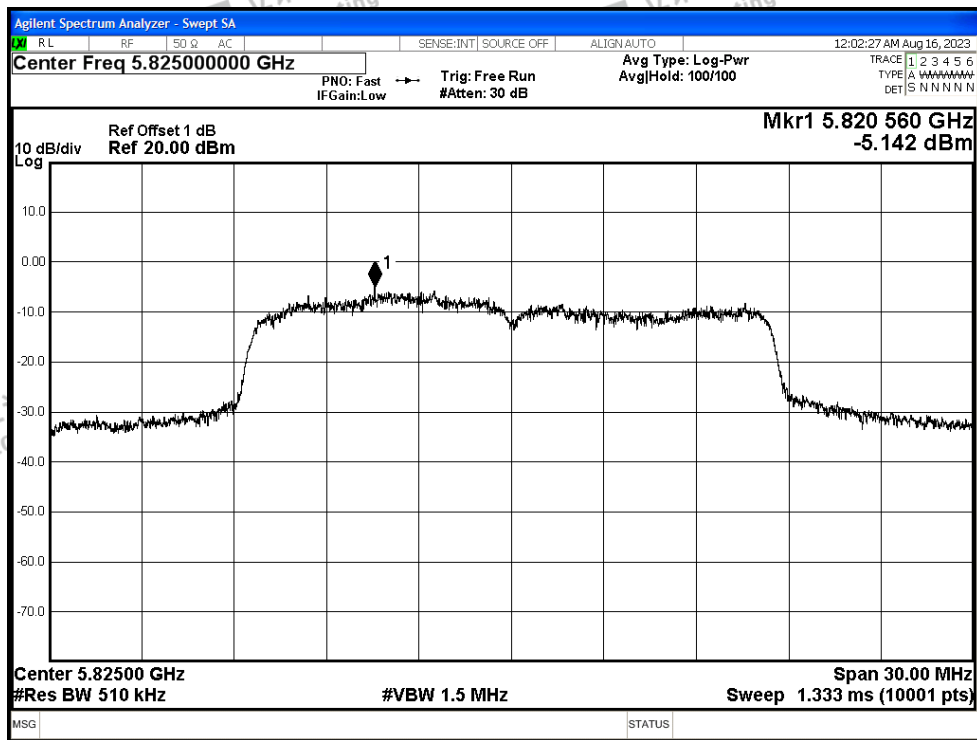
PSD NVNT a 5785MHz Ant1



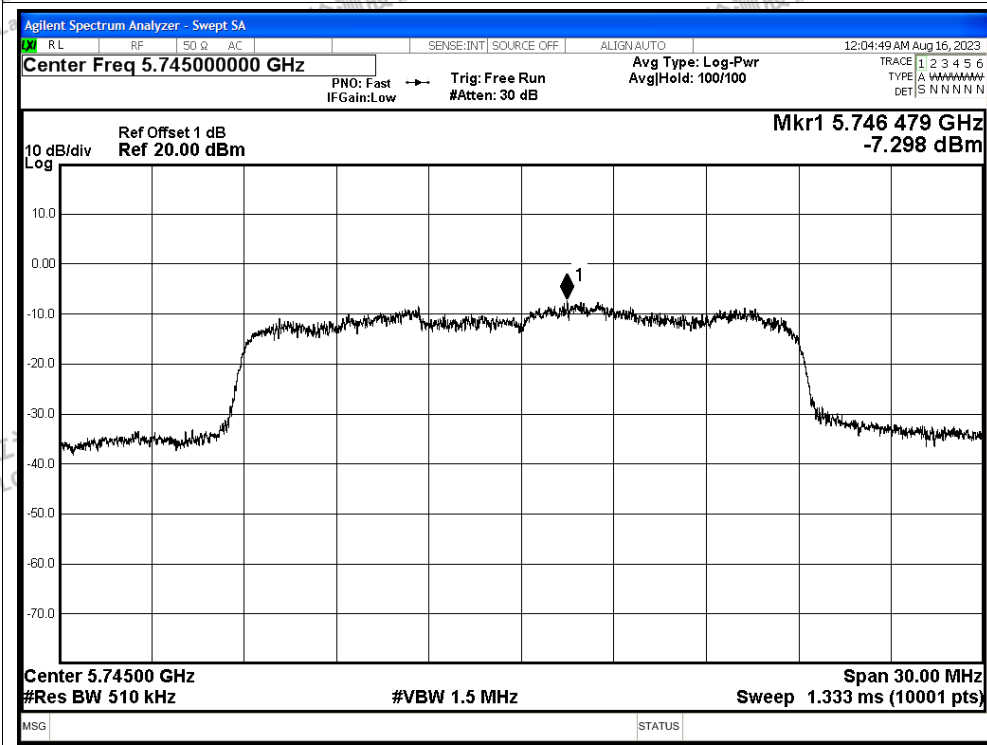




PSD NVNT a 5825MHz Ant1

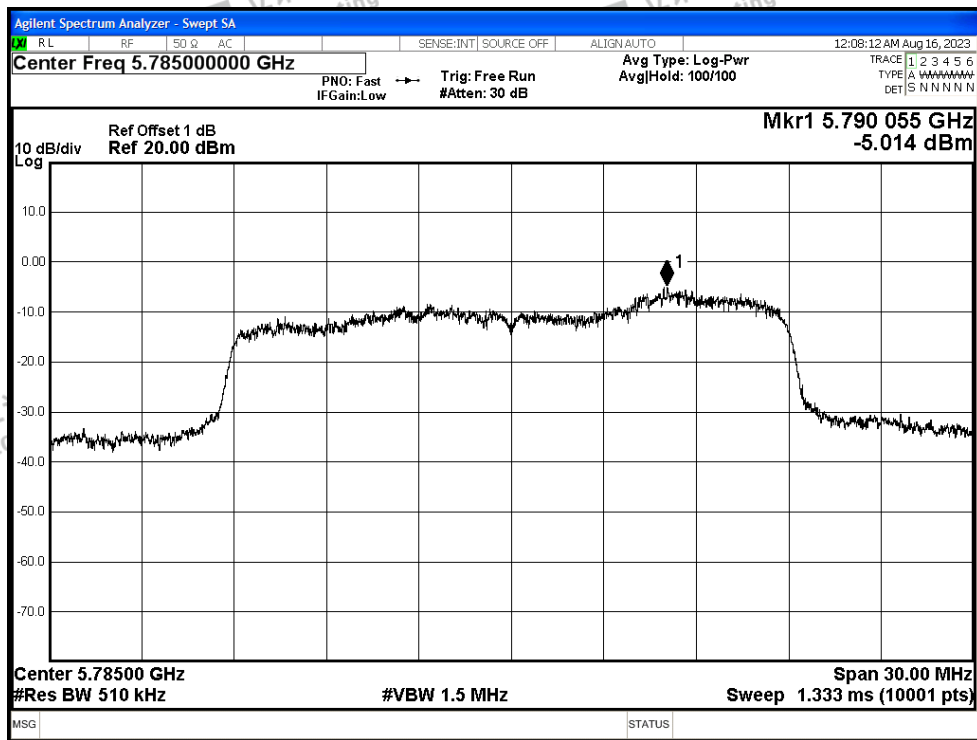


PSD NVNT n20 5745MHz Ant1

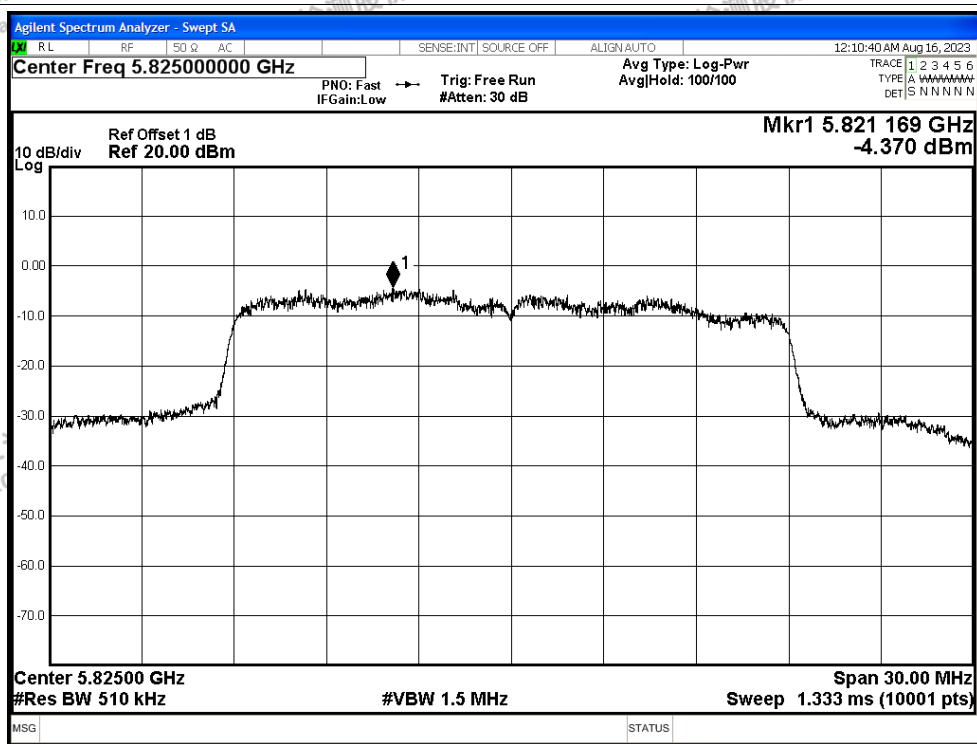




PSD NVNT n20 5785MHz Ant1

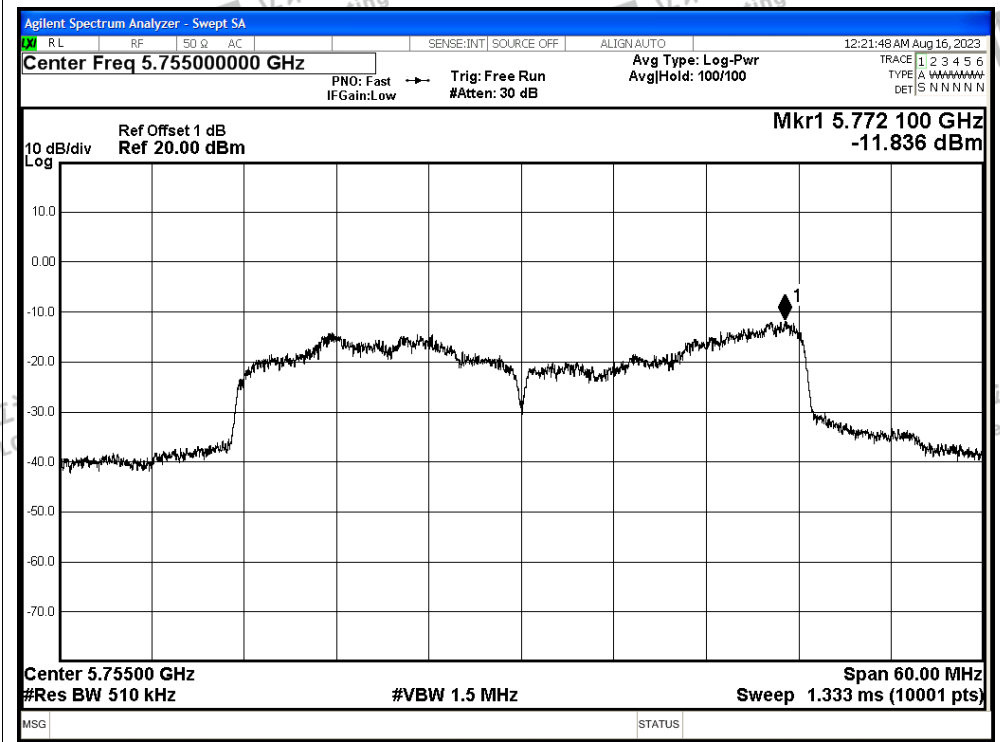


PSD NVNT n20 5825MHz Ant1

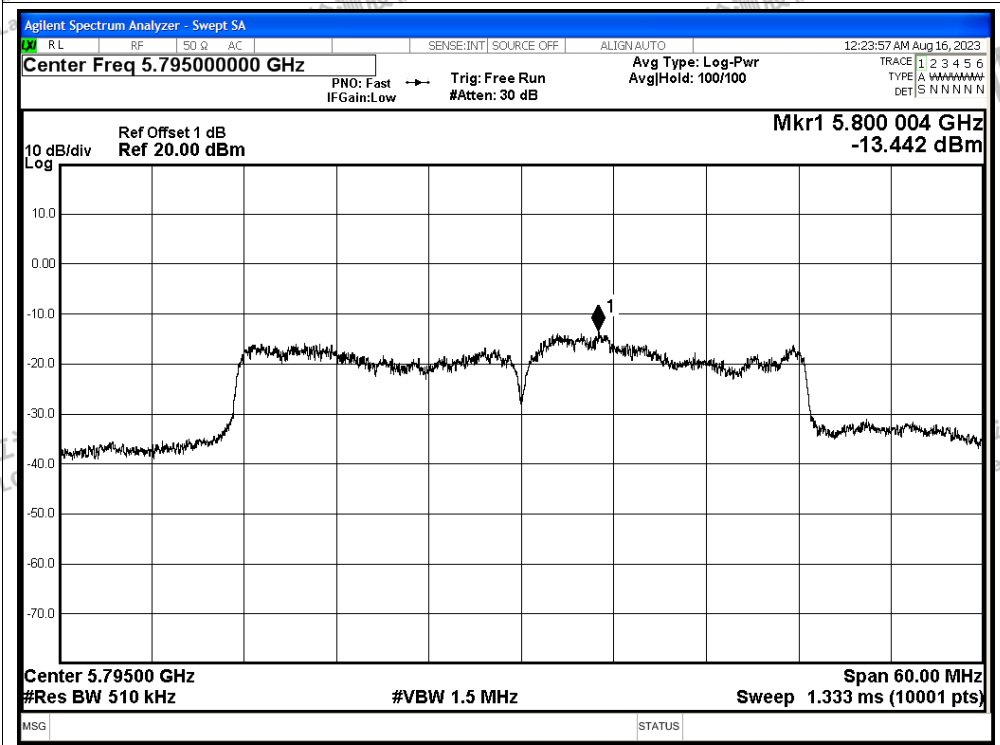


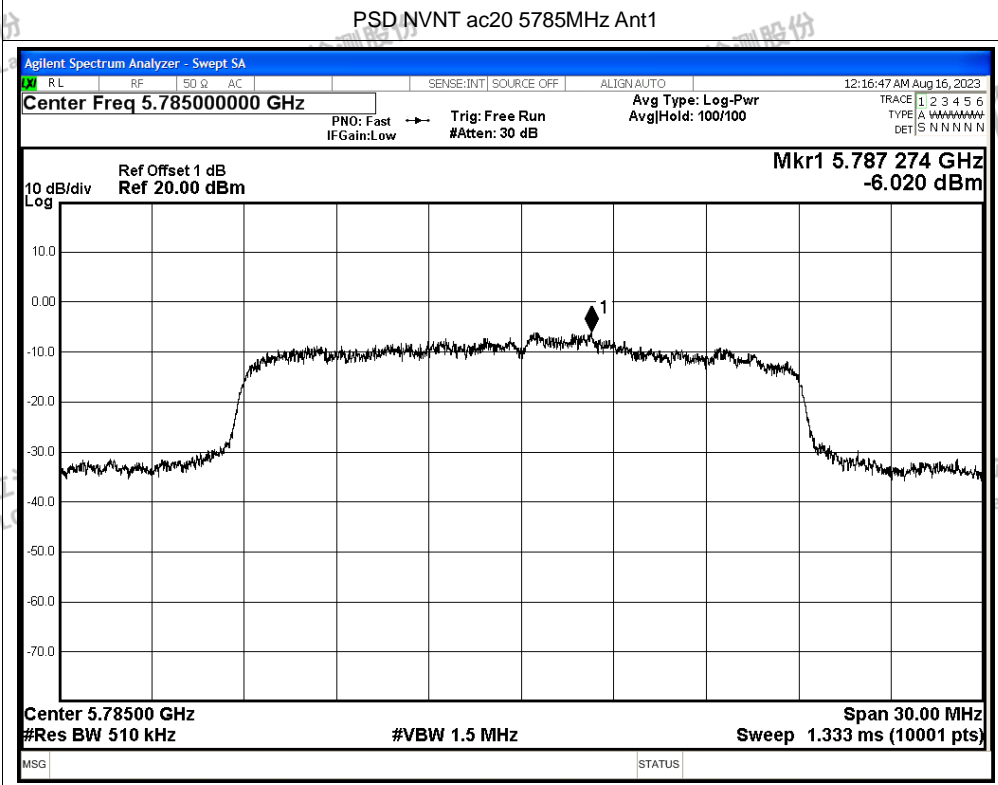
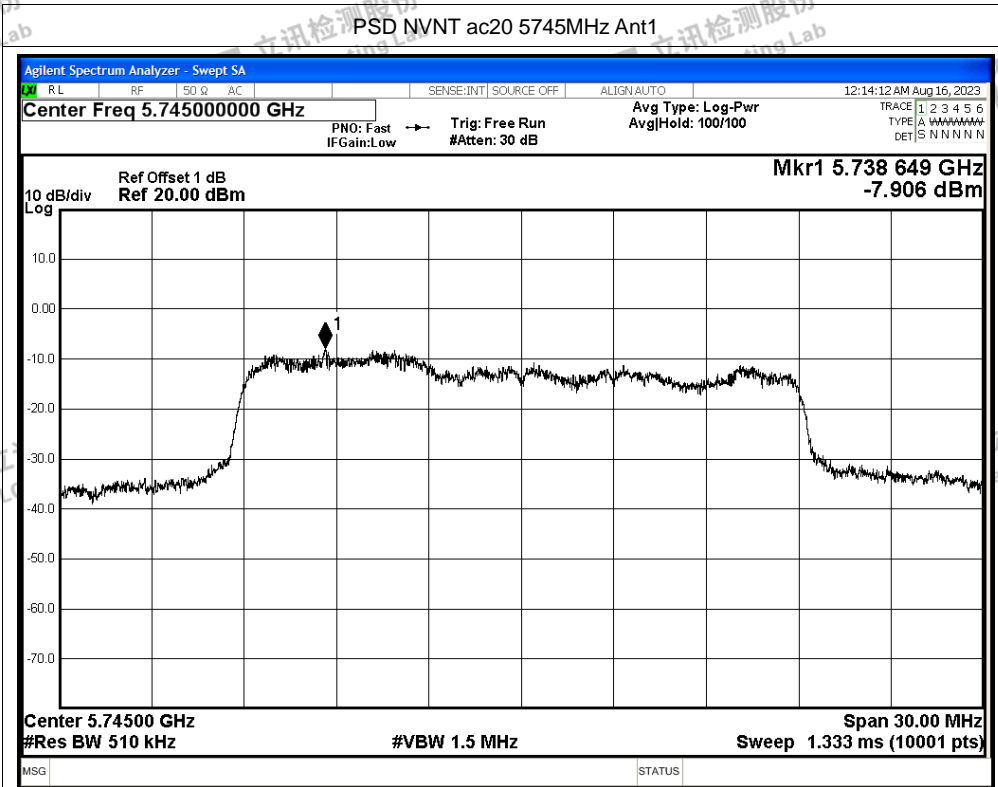


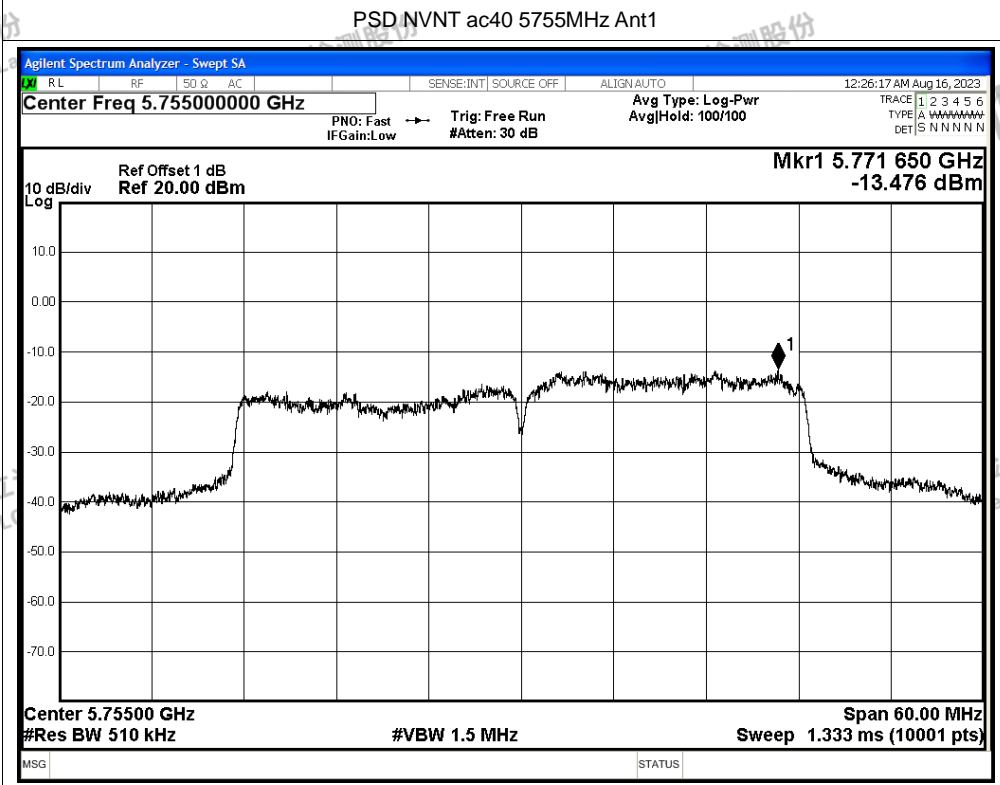
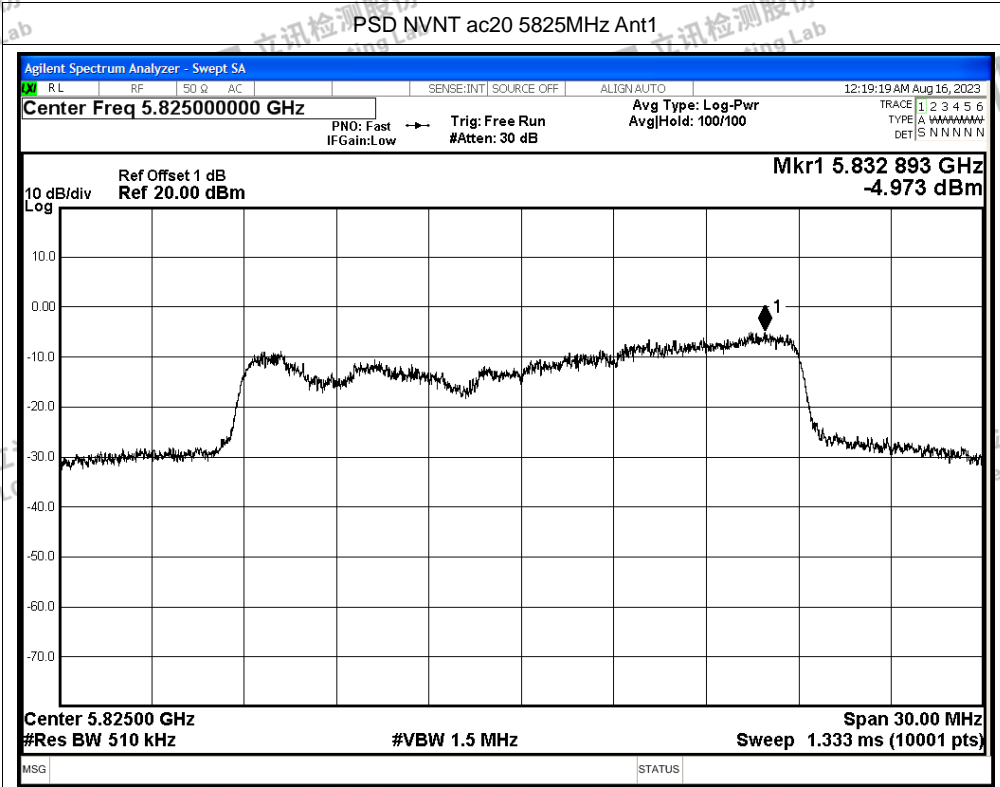
PSD NVNT n40 5755MHz Ant1

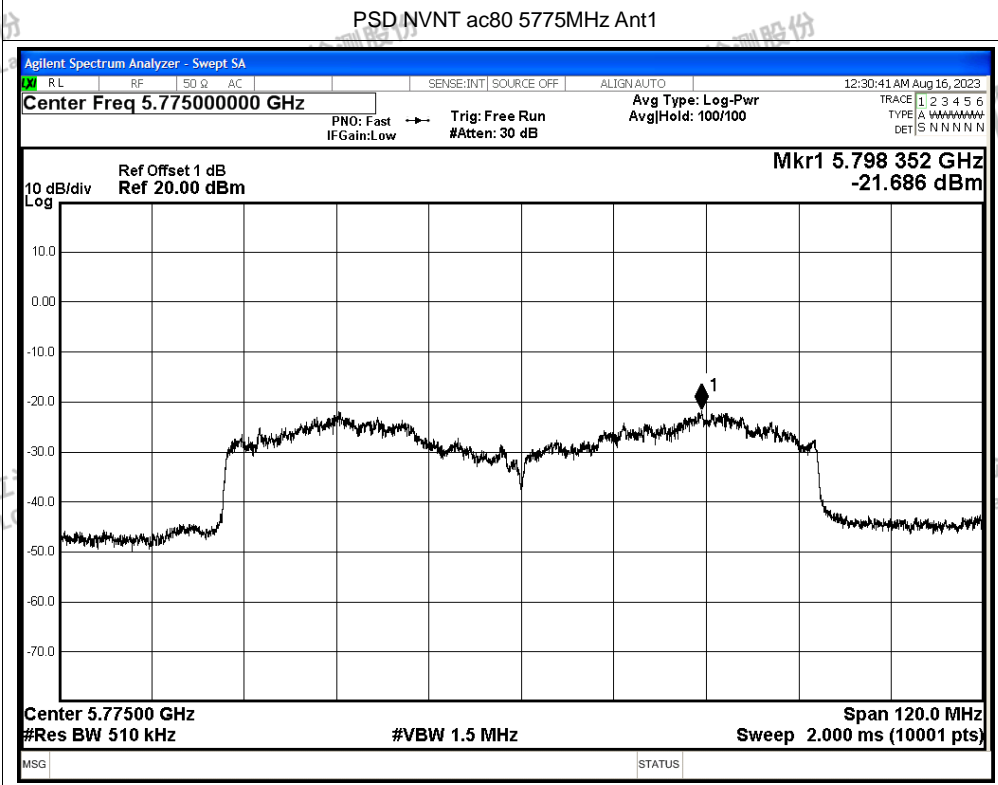
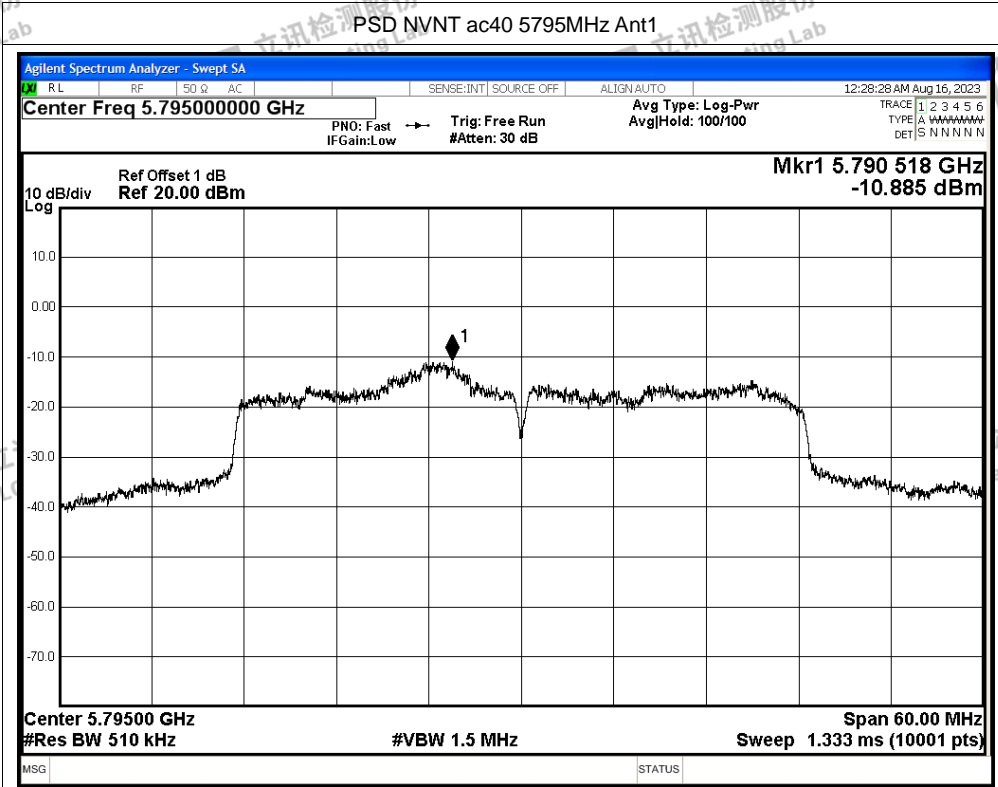


PSD NVNT n40 5795MHz Ant1











### E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a-Ant0	5745	5650	-49.74	2	-47.74	Peak	-27	Pass
NVNT	a-Ant0	5745	5650	-58.34	2	-56.34	Average	-27	Pass
NVNT	a-Ant0	5745	5700	-42.19	2	-40.19	Peak	10	Pass
NVNT	a-Ant0	5745	5700	-54.84	2	-52.84	Average	10	Pass
NVNT	a-Ant0	5745	5720	-35.42	2	-33.42	Peak	15.6	Pass
NVNT	a-Ant0	5745	5720	-45.16	2	-43.16	Average	15.6	Pass
NVNT	a-Ant0	5745	5725	-22.8	2	-20.8	Peak	27	Pass
NVNT	a-Ant0	5745	5725	-37.43	2	-35.43	Average	27	Pass
NVNT	a-Ant0	5825	5850	-30.72	2	-28.72	Peak	27	Pass
NVNT	a-Ant0	5825	5850	-46.1	2	-44.1	Average	27	Pass
NVNT	a-Ant0	5825	5855	-33.7	2	-31.7	Peak	15.6	Pass
NVNT	a-Ant0	5825	5855	-49.47	2	-47.47	Average	15.6	Pass
NVNT	a-Ant0	5825	5875	-44.48	2	-42.48	Peak	10	Pass
NVNT	a-Ant0	5825	5875	-55.81	2	-53.81	Average	10	Pass
NVNT	a-Ant0	5825	5925	-49.13	2	-47.13	Peak	-27	Pass
NVNT	a-Ant0	5825	5925	-58.33	2	-56.33	Average	-27	Pass
NVNT	n20 mimo	5745	5650	-47.04	4.38	-42.66	Peak	-27	Pass
NVNT	n20 mimo	5745	5650	-58.25	4.38	-53.87	Average	-27	Pass
NVNT	n20 mimo	5745	5700	-41.71	4.38	-37.33	Peak	10	Pass
NVNT	n20 mimo	5745	5700	-54.34	4.38	-49.96	Average	10	Pass
NVNT	n20 mimo	5745	5720	-32.63	4.38	-28.25	Peak	15.6	Pass
NVNT	n20 mimo	5745	5720	-43.75	4.38	-39.37	Average	15.6	Pass
NVNT	n20 mimo	5745	5725	-20.52	4.38	-16.14	Peak	27	Pass
NVNT	n20 mimo	5745	5725	-36.32	4.38	-31.94	Average	27	Pass
NVNT	n20 mimo	5825	5850	-27.14	4.38	-22.76	Peak	27	Pass
NVNT	n20 mimo	5825	5850	-42.23	4.38	-37.85	Average	27	Pass
NVNT	n20 mimo	5825	5855	-35.72	4.38	-31.34	Peak	15.6	Pass
NVNT	n20 mimo	5825	5855	-48.58	4.38	-44.2	Average	15.6	Pass
NVNT	n20 mimo	5825	5875	-45.3	4.38	-40.92	Peak	10	Pass
NVNT	n20 mimo	5825	5875	-55.22	4.38	-50.84	Average	10	Pass
NVNT	n20 mimo	5825	5925	-47.6	4.38	-43.22	Peak	-27	Pass
NVNT	n20 mimo	5825	5925	-58.38	4.38	-54	Average	-27	Pass
NVNT	n40 mimo	5755	5650	-47.61	4.38	-43.23	Peak	-27	Pass
NVNT	n40 mimo	5755	5650	-57.26	4.38	-52.88	Average	-27	Pass
NVNT	n40 mimo	5755	5700	-39.35	4.38	-34.97	Peak	10	Pass
NVNT	n40 mimo	5755	5700	-49.34	4.38	-44.96	Average	10	Pass
NVNT	n40 mimo	5755	5720	-23.82	4.38	-19.44	Peak	15.6	Pass



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NVNT	n40 mimo	5755	5720	-34.73	4.38	-30.35	Average	15.6	Pass
NVNT	n40 mimo	5755	5725	-22.78	4.38	-18.4	Peak	27	Pass
NVNT	n40 mimo	5755	5725	-33.02	4.38	-28.64	Average	27	Pass
NVNT	n40 mimo	5795	5850	-34.93	4.38	-30.55	Peak	27	Pass
NVNT	n40 mimo	5795	5850	-45.84	4.38	-41.46	Average	27	Pass
NVNT	n40 mimo	5795	5855	-36.2	4.38	-31.82	Peak	15.6	Pass
NVNT	n40 mimo	5795	5855	-47.58	4.38	-43.2	Average	15.6	Pass
NVNT	n40 mimo	5795	5875	-43.4	4.38	-39.02	Peak	10	Pass
NVNT	n40 mimo	5795	5875	-53.09	4.38	-48.71	Average	10	Pass
NVNT	n40 mimo	5795	5925	-49.59	4.38	-45.21	Peak	-27	Pass
NVNT	n40 mimo	5795	5925	-58.11	4.38	-53.73	Average	-27	Pass
NVNT	ac20 mimo	5745	5650	-48.91	4.38	-44.53	Peak	-27	Pass
NVNT	ac20 mimo	5745	5650	-58.24	4.38	-53.86	Average	-27	Pass
NVNT	ac20 mimo	5745	5700	-42.89	4.38	-38.51	Peak	10	Pass
NVNT	ac20 mimo	5745	5700	-54.28	4.38	-49.9	Average	10	Pass
NVNT	ac20 mimo	5745	5720	-29.08	4.38	-24.7	Peak	15.6	Pass
NVNT	ac20 mimo	5745	5720	-44.02	4.38	-39.64	Average	15.6	Pass
NVNT	ac20 mimo	5745	5725	-19.84	4.38	-15.46	Peak	27	Pass
NVNT	ac20 mimo	5745	5725	-36.56	4.38	-32.18	Average	27	Pass
NVNT	ac20 mimo	5825	5850	-24.69	4.38	-20.31	Peak	27	Pass
NVNT	ac20 mimo	5825	5850	-42.44	4.38	-38.06	Average	27	Pass
NVNT	ac20 mimo	5825	5855	-35.07	4.38	-30.69	Peak	15.6	Pass
NVNT	ac20 mimo	5825	5855	-48.71	4.38	-44.33	Average	15.6	Pass
NVNT	ac20 mimo	5825	5875	-45.67	4.38	-41.29	Peak	10	Pass
NVNT	ac20 mimo	5825	5875	-55.42	4.38	-51.04	Average	10	Pass
NVNT	ac20 mimo	5825	5925	-48.83	4.38	-44.45	Peak	-27	Pass
NVNT	ac20 mimo	5825	5925	-58.34	4.38	-53.96	Average	-27	Pass
NVNT	ac40 mimo	5755	5650	-48.11	4.38	-43.73	Peak	-27	Pass
NVNT	ac40 mimo	5755	5650	-57.3	4.38	-52.92	Average	-27	Pass
NVNT	ac40 mimo	5755	5700	-39.25	4.38	-34.87	Peak	10	Pass
NVNT	ac40 mimo	5755	5700	-49.35	4.38	-44.97	Average	10	Pass
NVNT	ac40 mimo	5755	5720	-22.29	4.38	-17.91	Peak	15.6	Pass
NVNT	ac40 mimo	5755	5720	-34.88	4.38	-30.5	Average	15.6	Pass
NVNT	ac40 mimo	5755	5725	-23.01	4.38	-18.63	Peak	27	Pass
NVNT	ac40 mimo	5755	5725	-32.84	4.38	-28.46	Average	27	Pass
NVNT	ac40 mimo	5795	5850	-34.84	4.38	-30.46	Peak	27	Pass
NVNT	ac40 mimo	5795	5850	-45.81	4.38	-41.43	Average	27	Pass
NVNT	ac40 mimo	5795	5855	-35.3	4.38	-30.92	Peak	15.6	Pass
NVNT	ac40 mimo	5795	5855	-47.39	4.38	-43.01	Average	15.6	Pass
NVNT	ac40 mimo	5795	5875	-41.63	4.38	-37.25	Peak	10	Pass
NVNT	ac40 mimo	5795	5875	-53.24	4.38	-48.86	Average	10	Pass



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NVNT	ac40 mimo	5795	5925	-47.57	4.38	-43.19	Peak	-27	Pass
NVNT	ac40 mimo	5795	5925	-58.01	4.38	-53.63	Average	-27	Pass
NVNT	ac80 mimo	5775	5650	-43.64	4.38	-39.26	Peak	-27	Pass
NVNT	ac80 mimo	5775	5650	-53.73	4.38	-49.35	Average	-27	Pass
NVNT	ac80 mimo	5775	5700	-26.34	4.38	-21.96	Peak	10	Pass
NVNT	ac80 mimo	5775	5700	-37.78	4.38	-33.4	Average	10	Pass
NVNT	ac80 mimo	5775	5720	-25.41	4.38	-21.03	Peak	15.6	Pass
NVNT	ac80 mimo	5775	5720	-33.73	4.38	-29.35	Average	15.6	Pass
NVNT	ac80 mimo	5775	5725	-23.38	4.38	-19	Peak	27	Pass
NVNT	ac80 mimo	5775	5725	-32.53	4.38	-28.15	Average	27	Pass
NVNT	ac80 mimo	5775	5850	-23.54	4.38	-19.16	Peak	27	Pass
NVNT	ac80 mimo	5775	5850	-32.39	4.38	-28.01	Average	27	Pass
NVNT	ac80 mimo	5775	5855	-24.28	4.38	-19.9	Peak	15.6	Pass
NVNT	ac80 mimo	5775	5855	-33.75	4.38	-29.37	Average	15.6	Pass
NVNT	ac80 mimo	5775	5875	-29.5	4.38	-25.12	Peak	10	Pass
NVNT	ac80 mimo	5775	5875	-40.57	4.38	-36.19	Average	10	Pass
NVNT	ac80 mimo	5775	5925	-40.03	4.38	-35.65	Peak	-27	Pass
NVNT	ac80 mimo	5775	5925	-51.16	4.38	-46.78	Average	-27	Pass

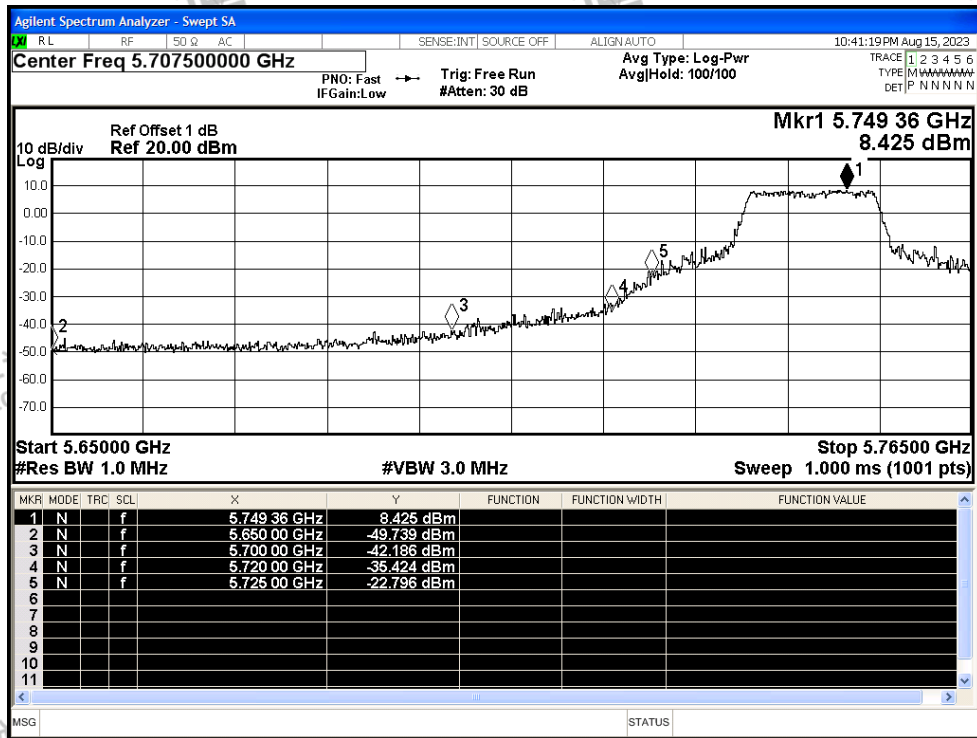


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 Scan code to check authenticity

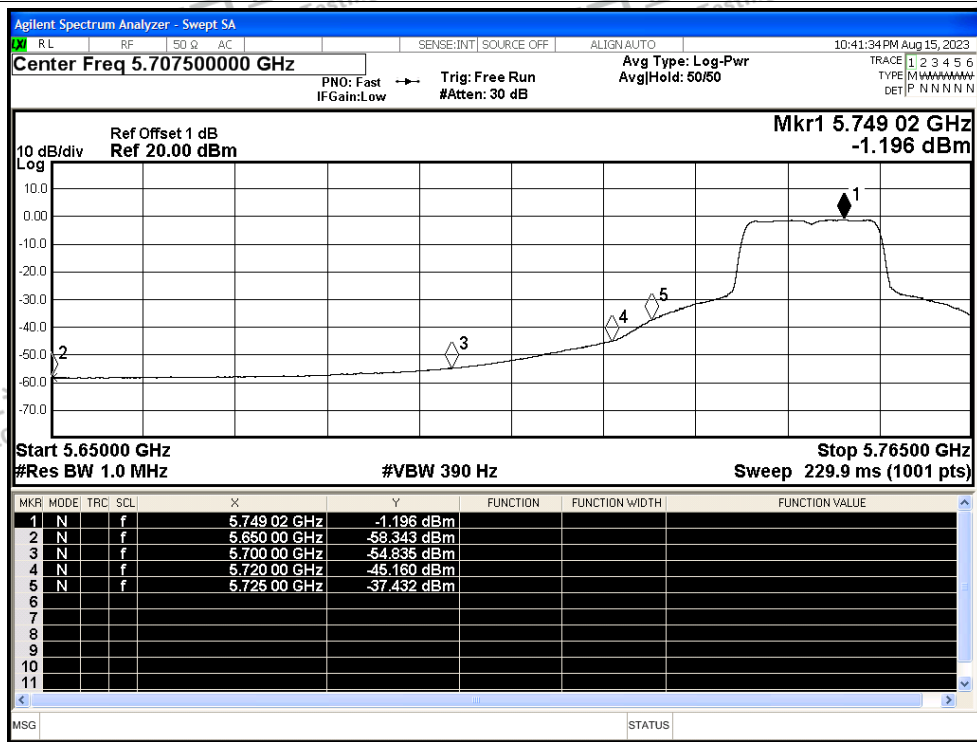


Test Graphs

Restrict Band NVNT a 5745MHz Ant0 Peak

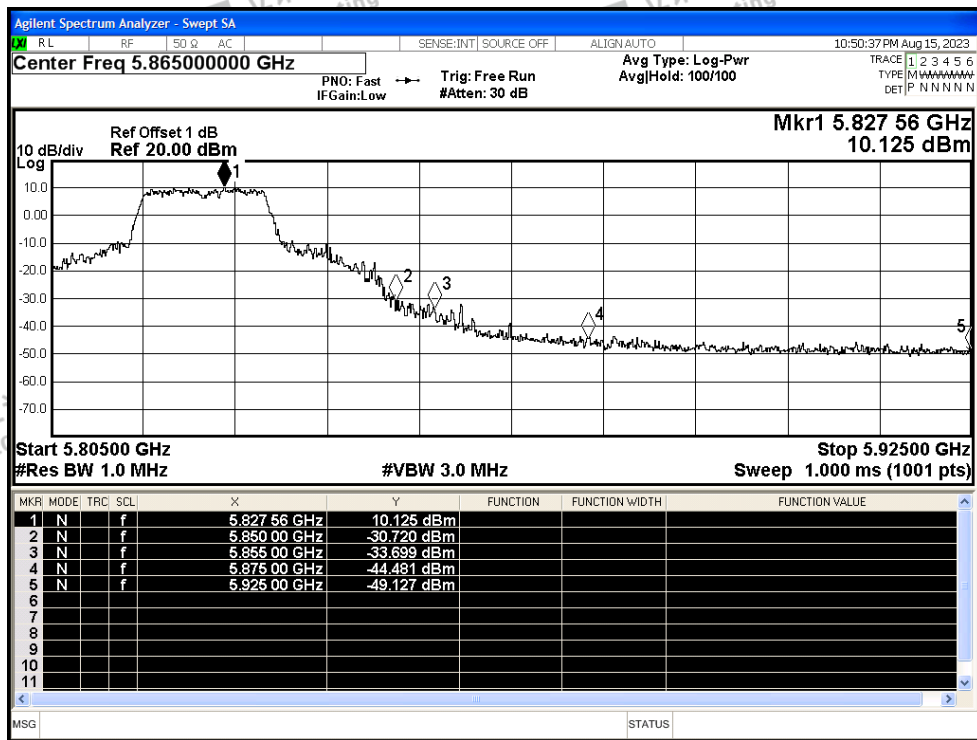


Restrict Band NVNT a 5745MHz Ant0 Average

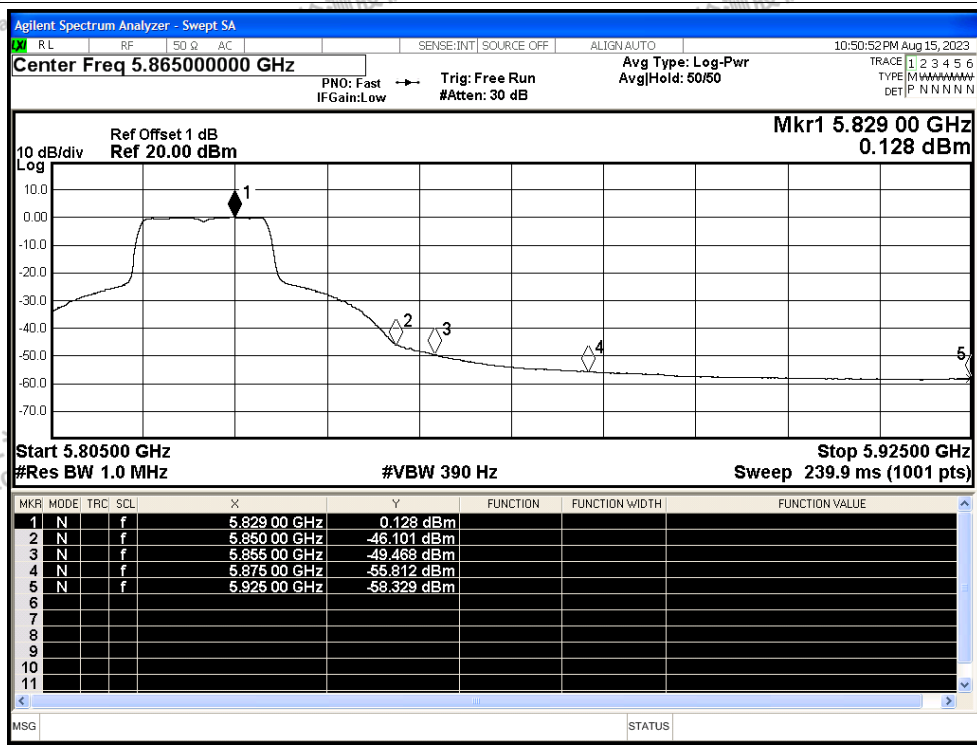




Restrict Band NVNT a 5825MHz Ant0 Peak

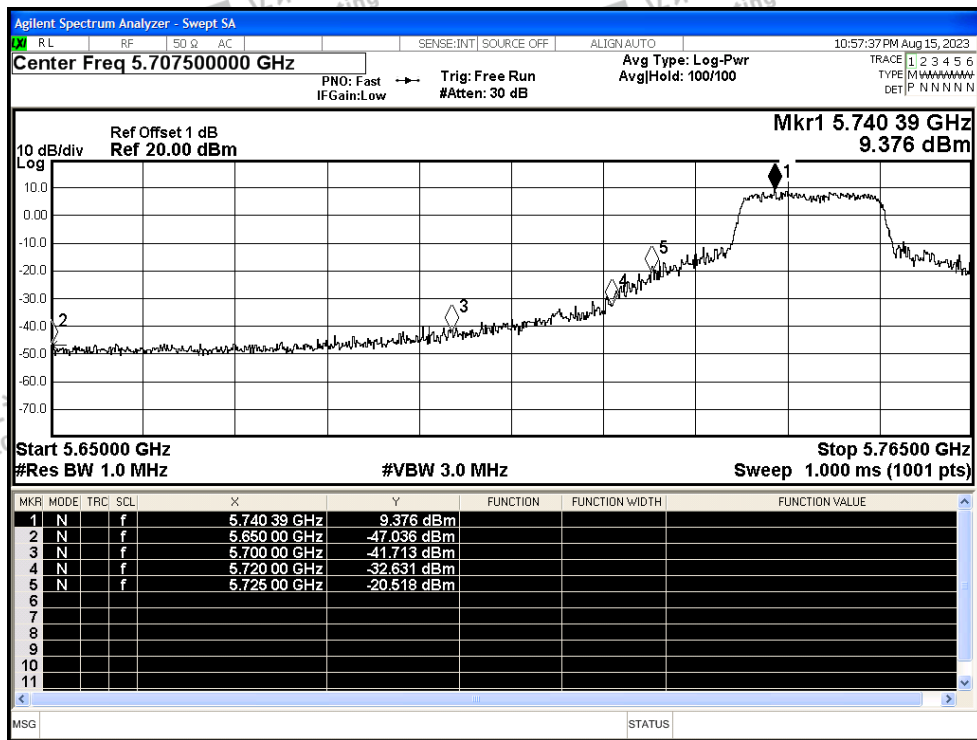


Restrict Band NVNT a 5825MHz Ant0 Average

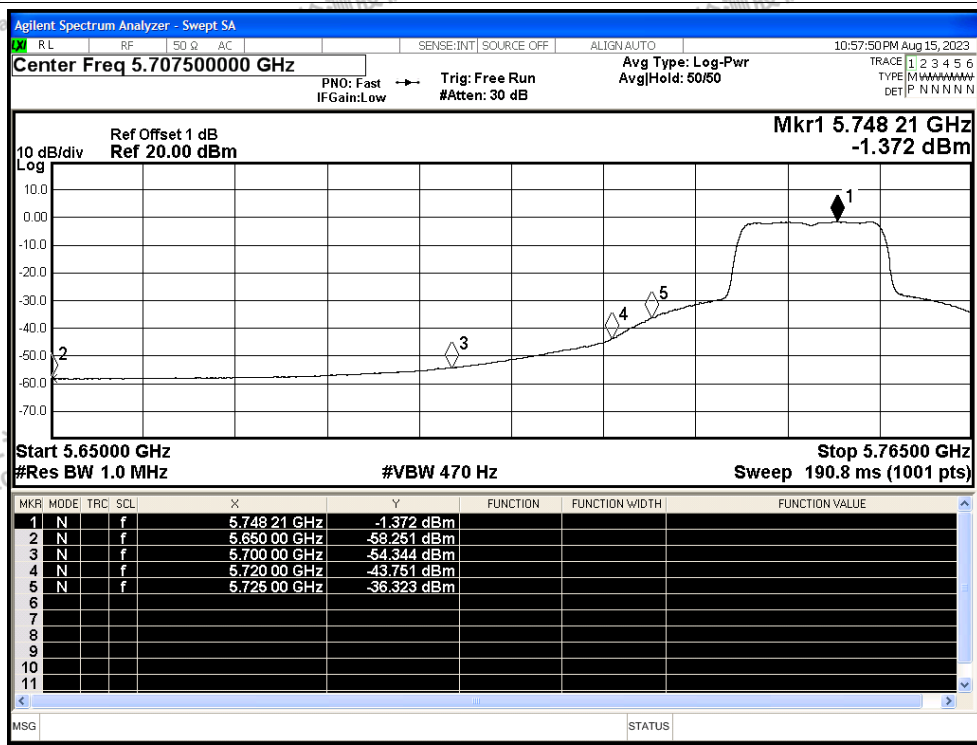




Restrict Band NVNT n20 5745MHz MIMO Peak

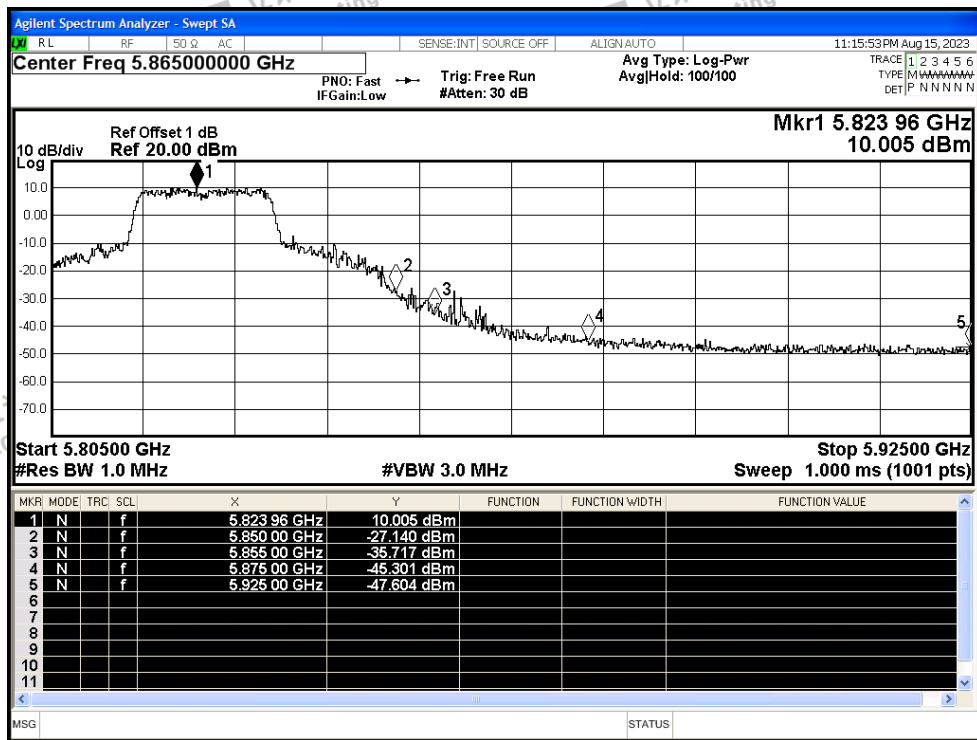


Restrict Band NVNT n20 5745MHz MIMO Average

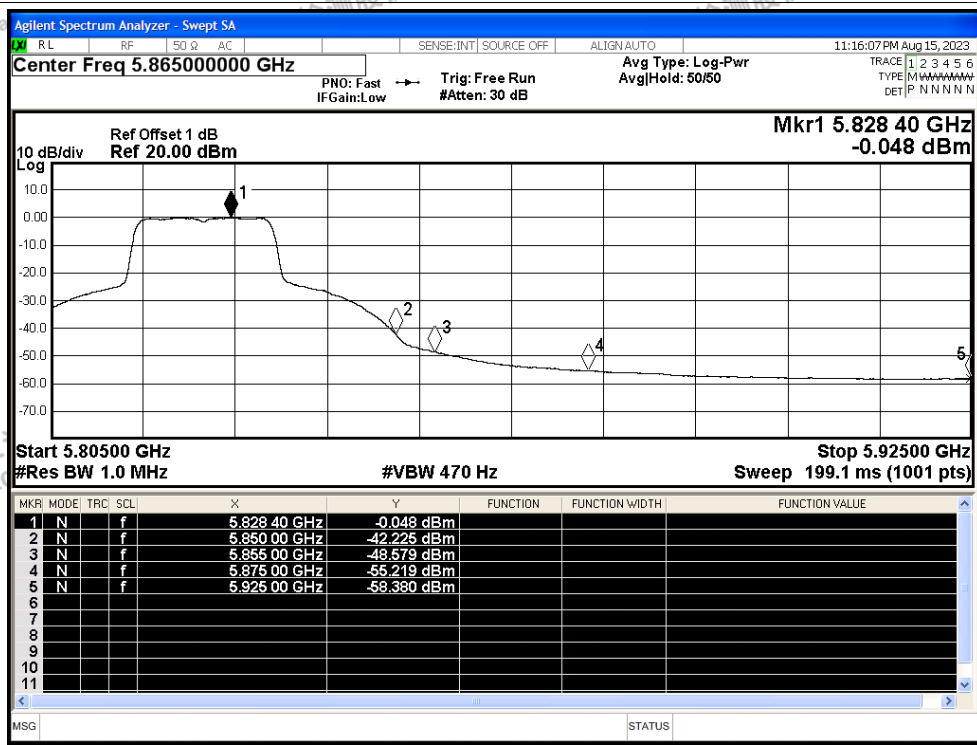




Restrict Band NVNT n20 5825MHz MIMO Peak



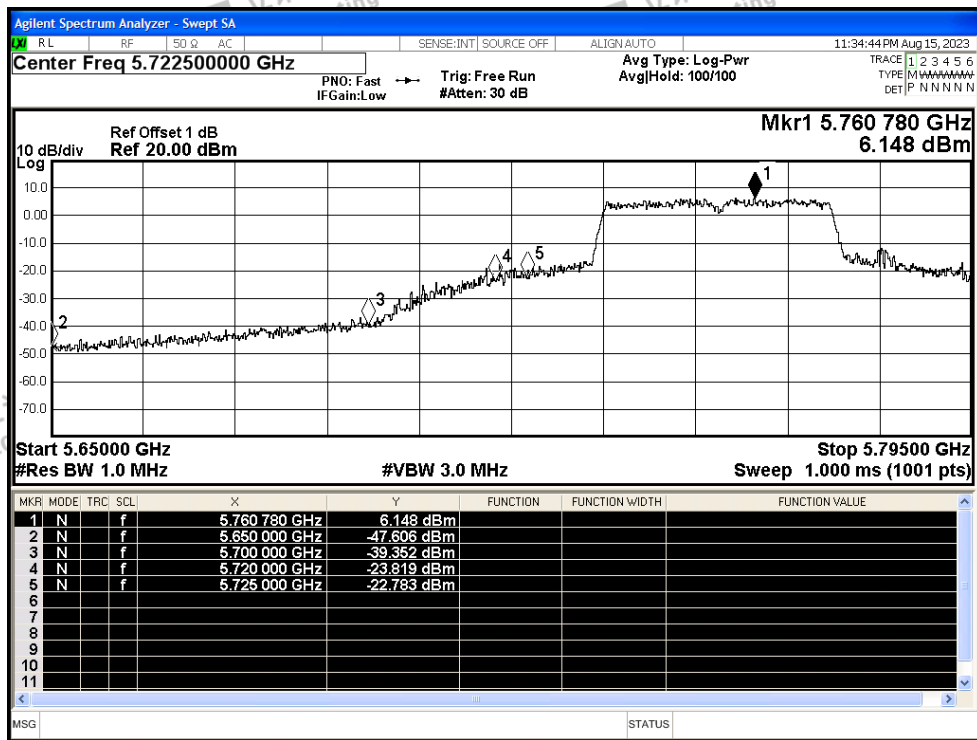
Restrict Band NVNT n20 5825MHz MIMO Average



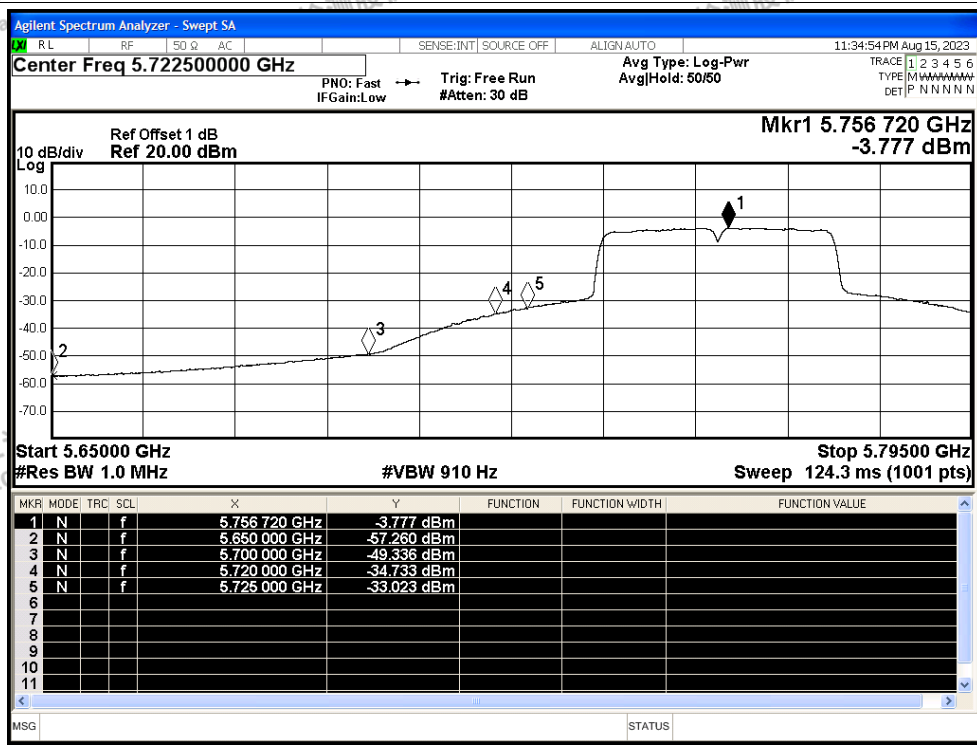




Restrict Band NVNT n40 5755MHz MIMO Peak



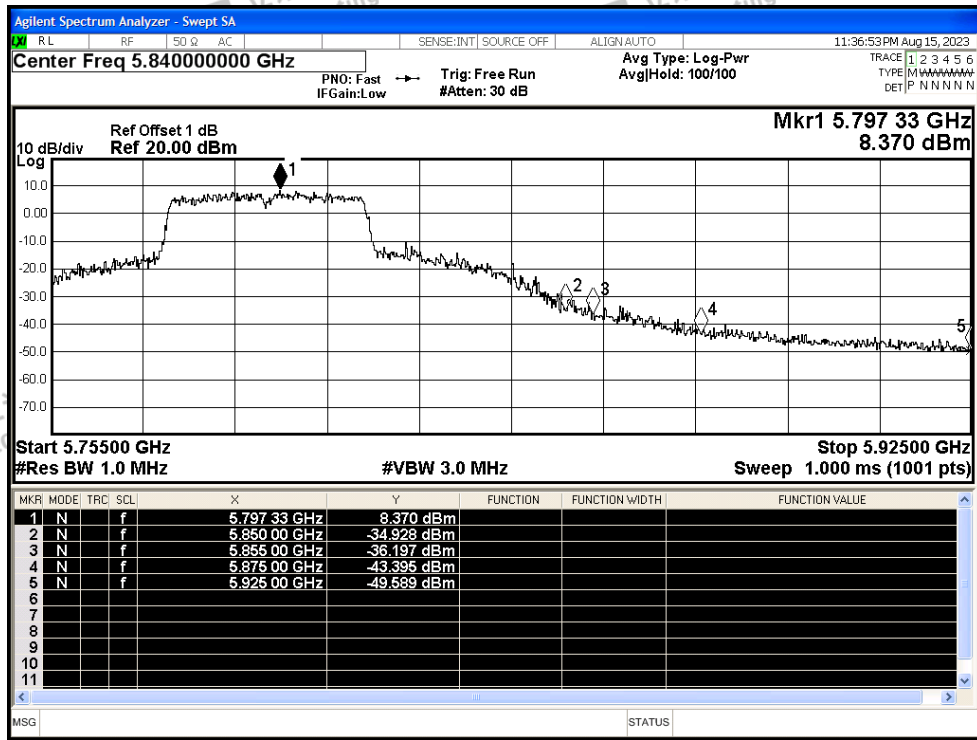
Restrict Band NVNT n40 5755MHz MIMO Average



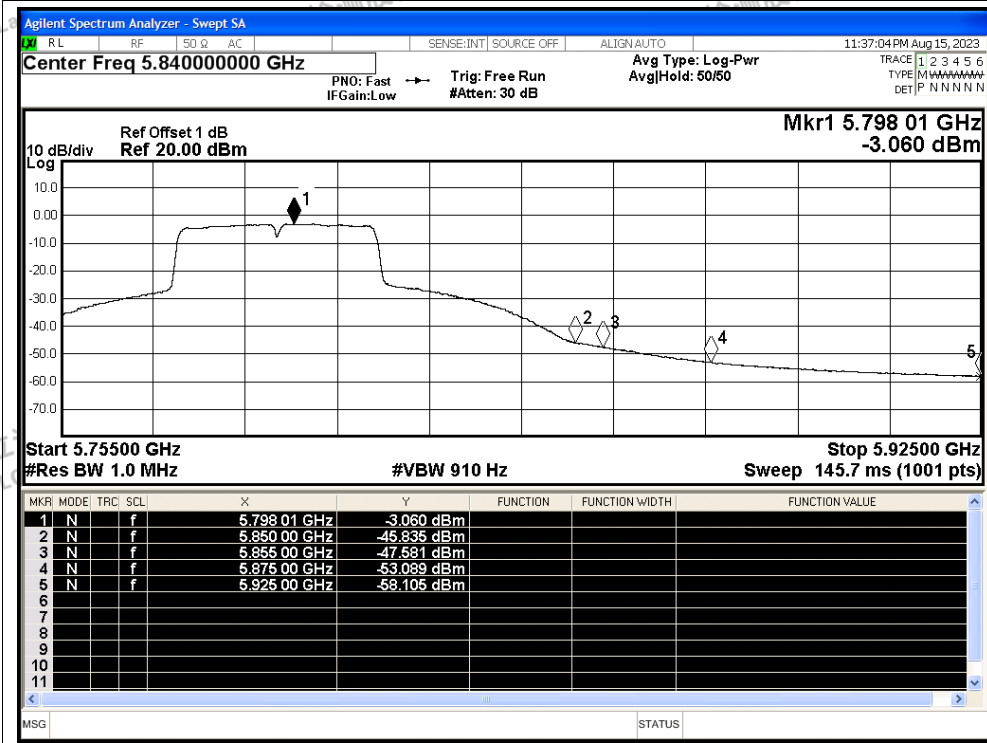




Restrict Band NVNT n40 5795MHz MIMO Peak

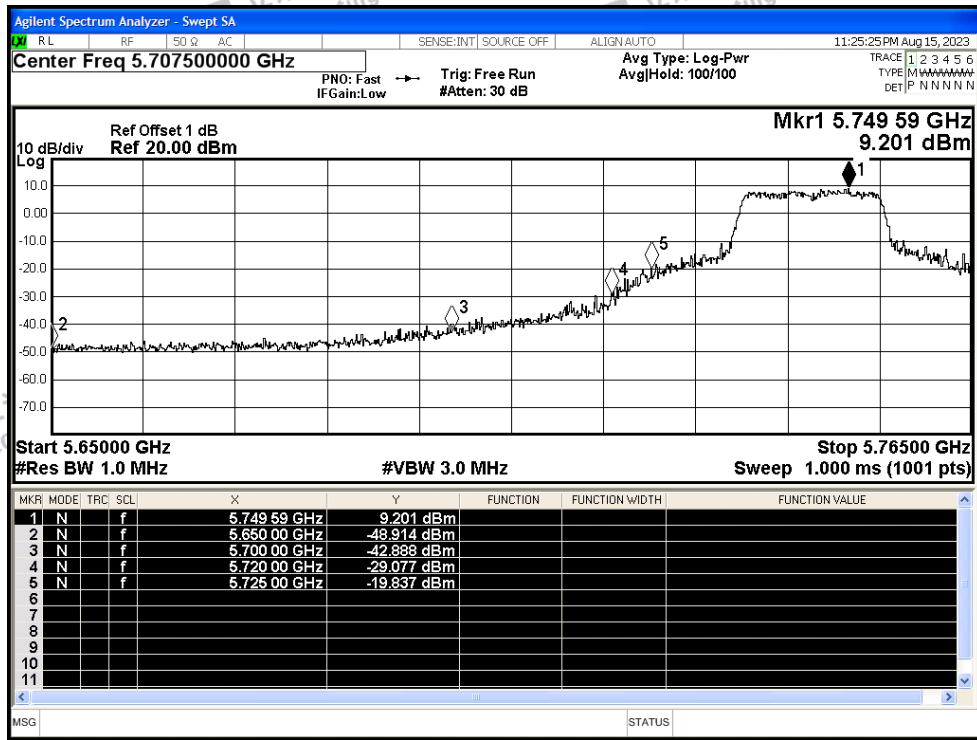


Restrict Band NVNT n40 5795MHz MIMO Average

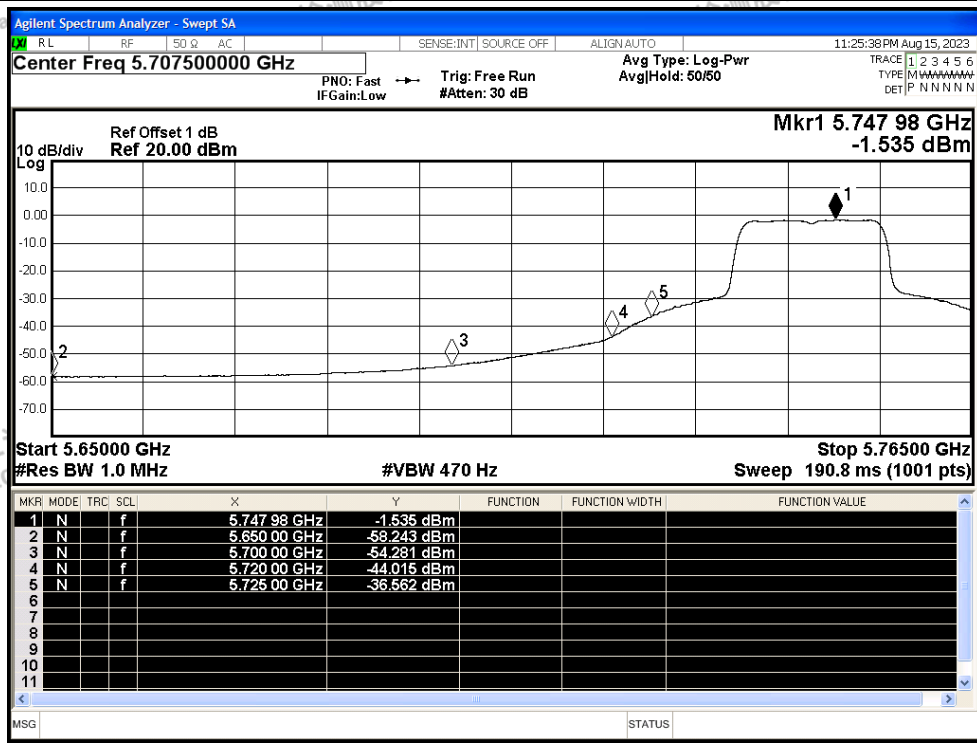




Restrict Band NVNT ac20 5745MHz MIMO Peak

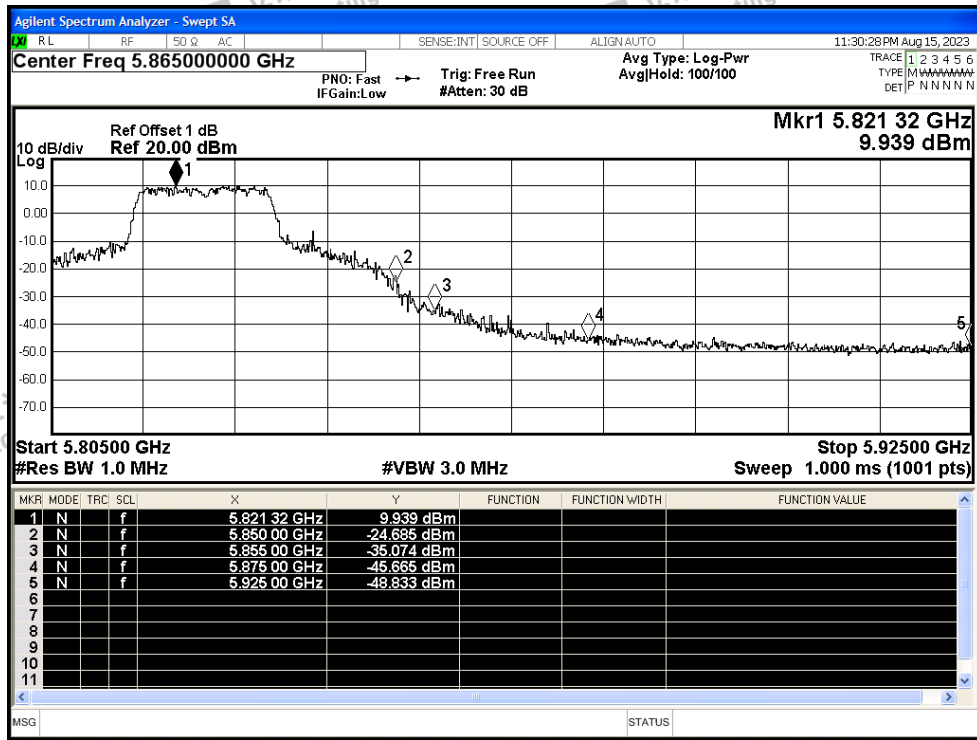


Restrict Band NVNT ac20 5745MHz MIMO Average

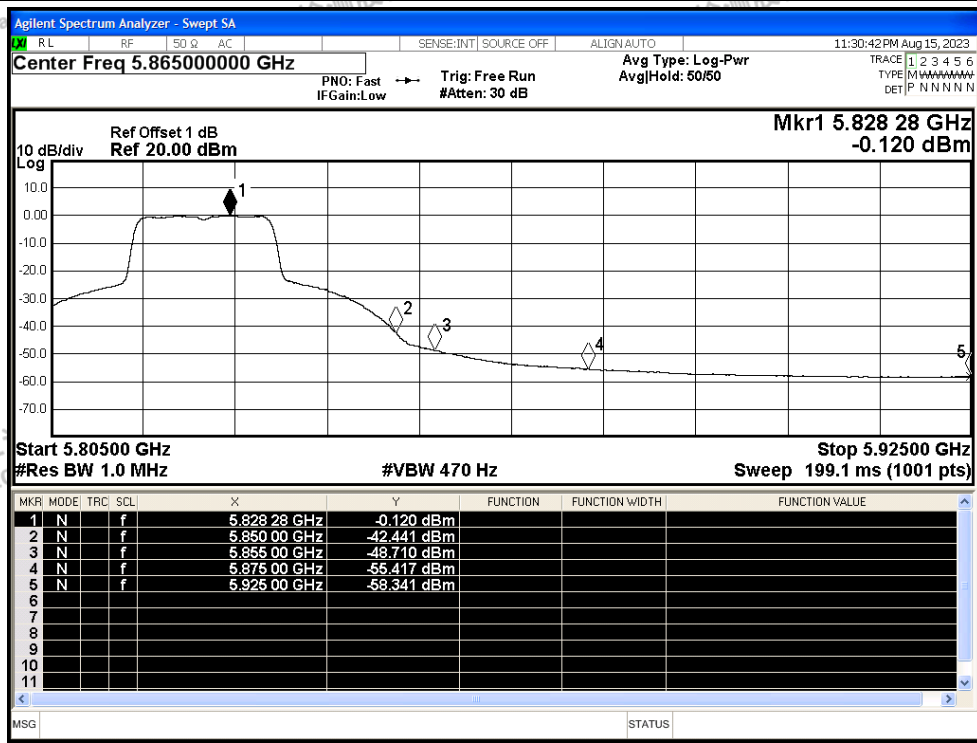




Restrict Band NVNT ac20 5825MHz MIMO Peak

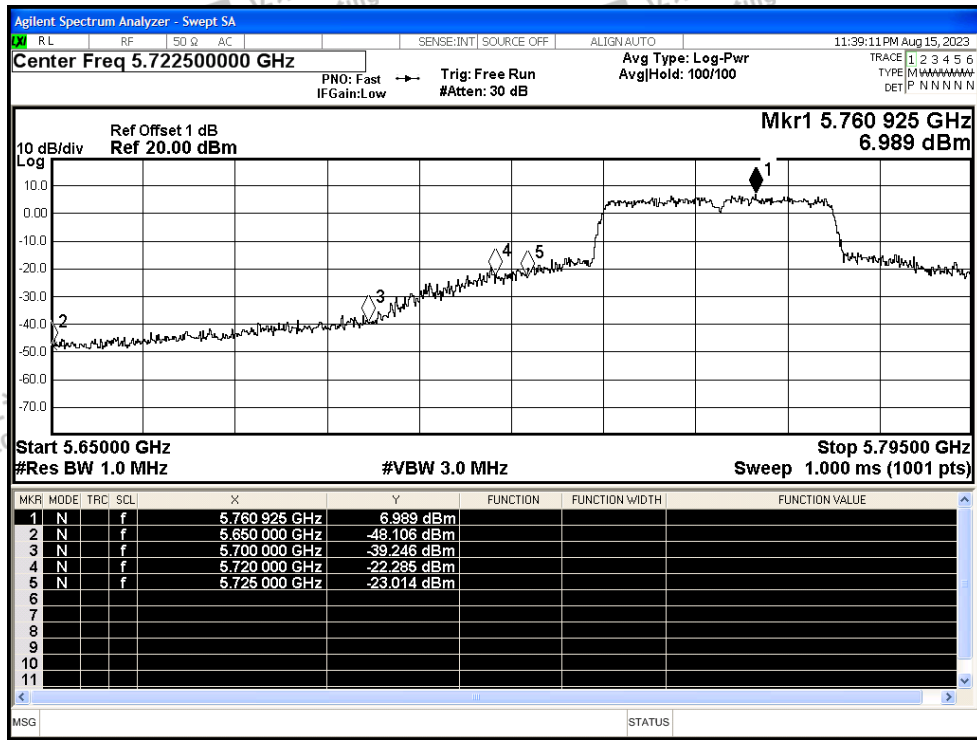


Restrict Band NVNT ac20 5825MHz MIMO Average

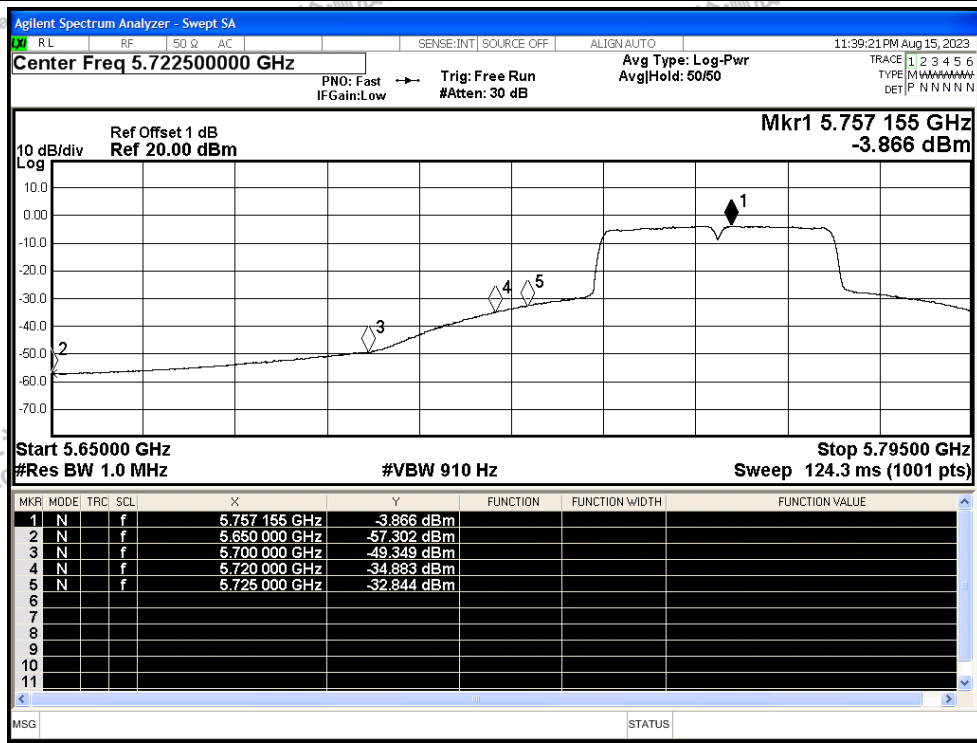




Restrict Band NVNT ac40 5755MHz MIMO Peak

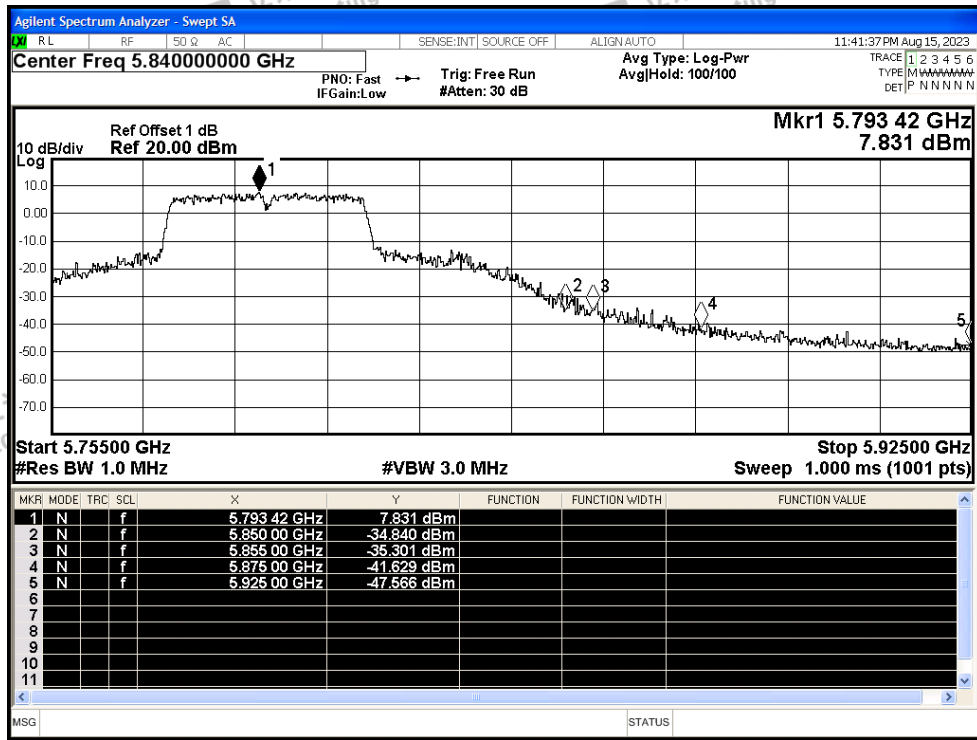


Restrict Band NVNT ac40 5755MHz MIMO Average

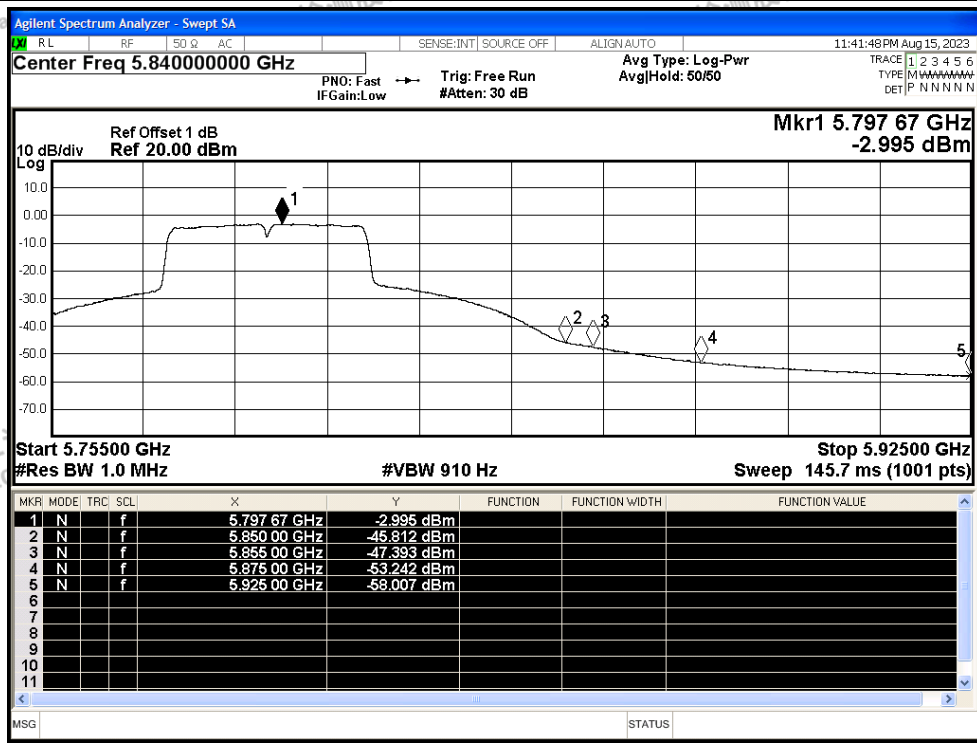




Restrict Band NVNT ac40 5795MHz MIMO Peak

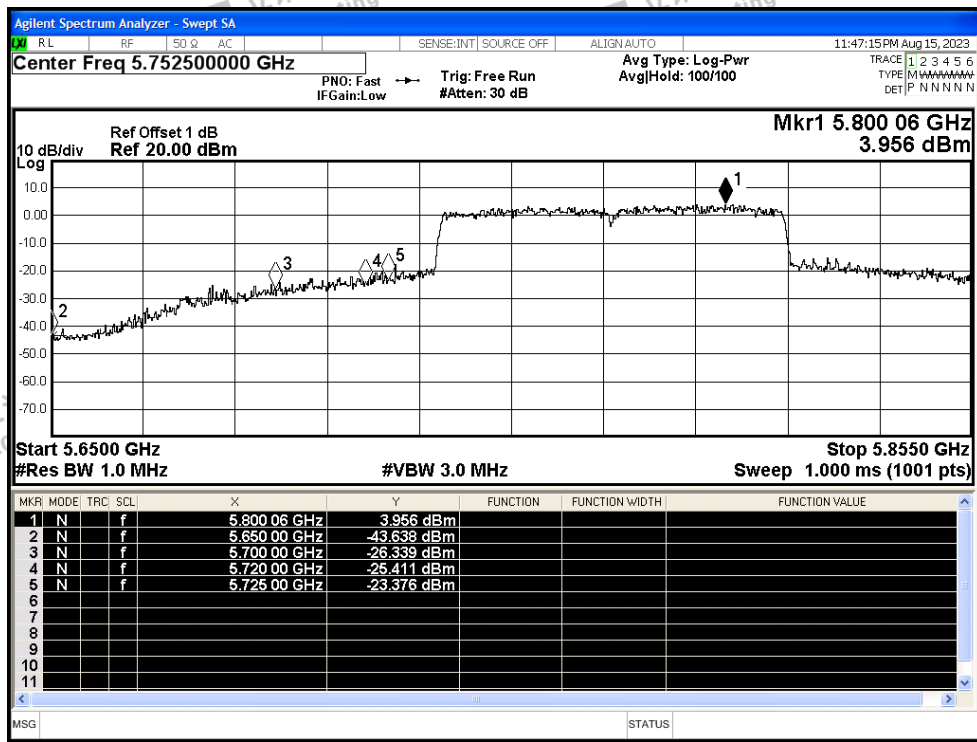


Restrict Band NVNT ac40 5795MHz MIMO Average

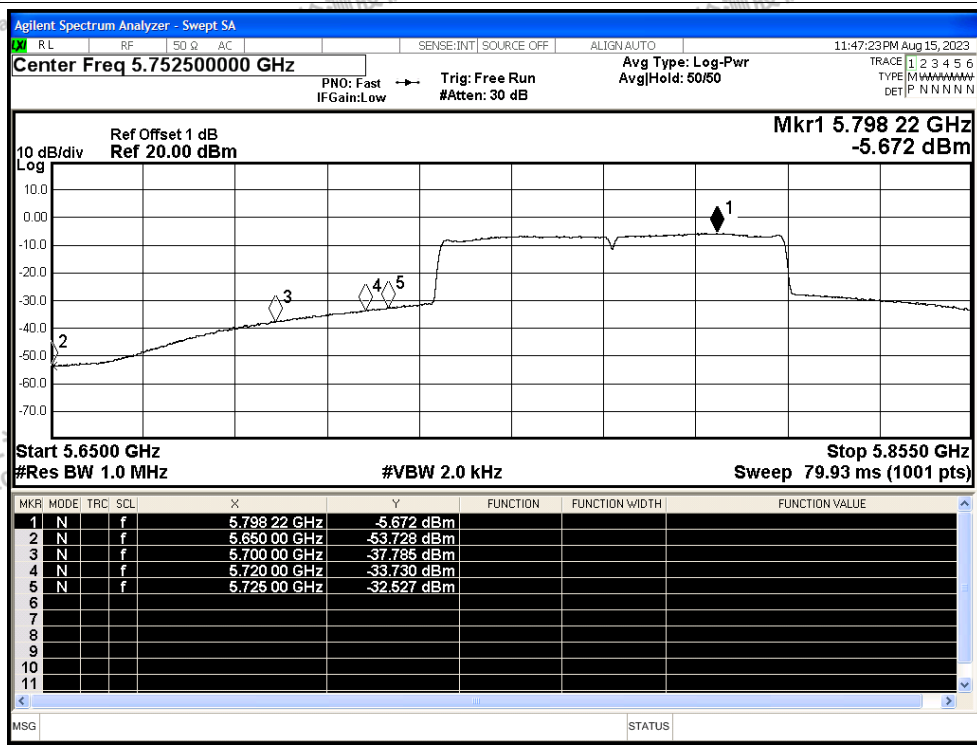




Restrict Band NVNT ac80 5775MHz MIMO Peak



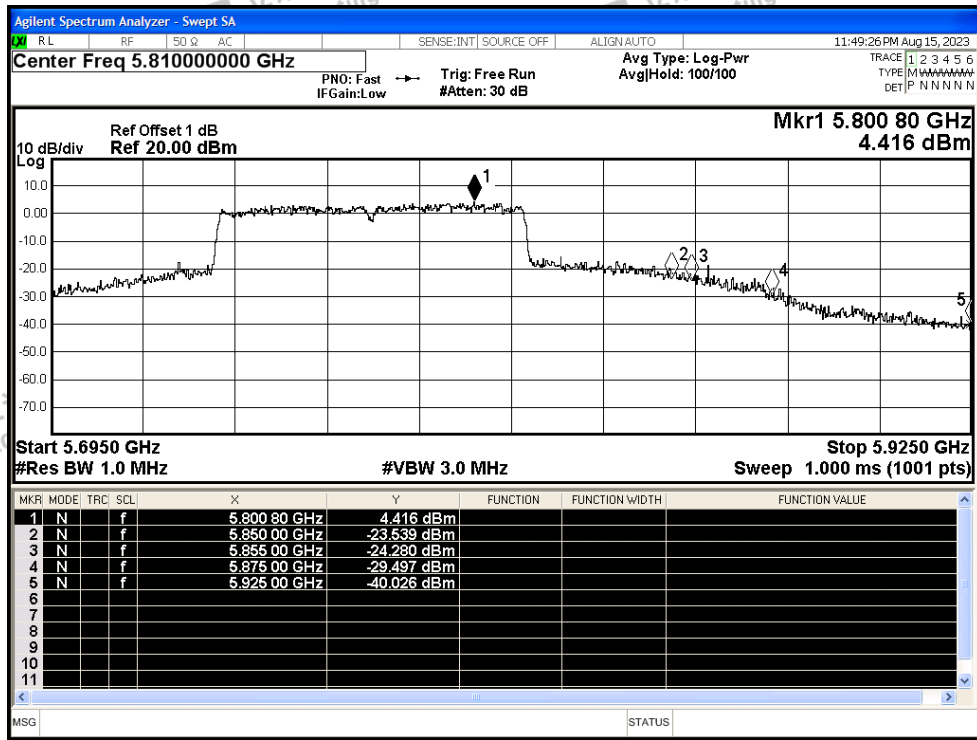
Restrict Band NVNT ac80 5775MHz MIMO Average



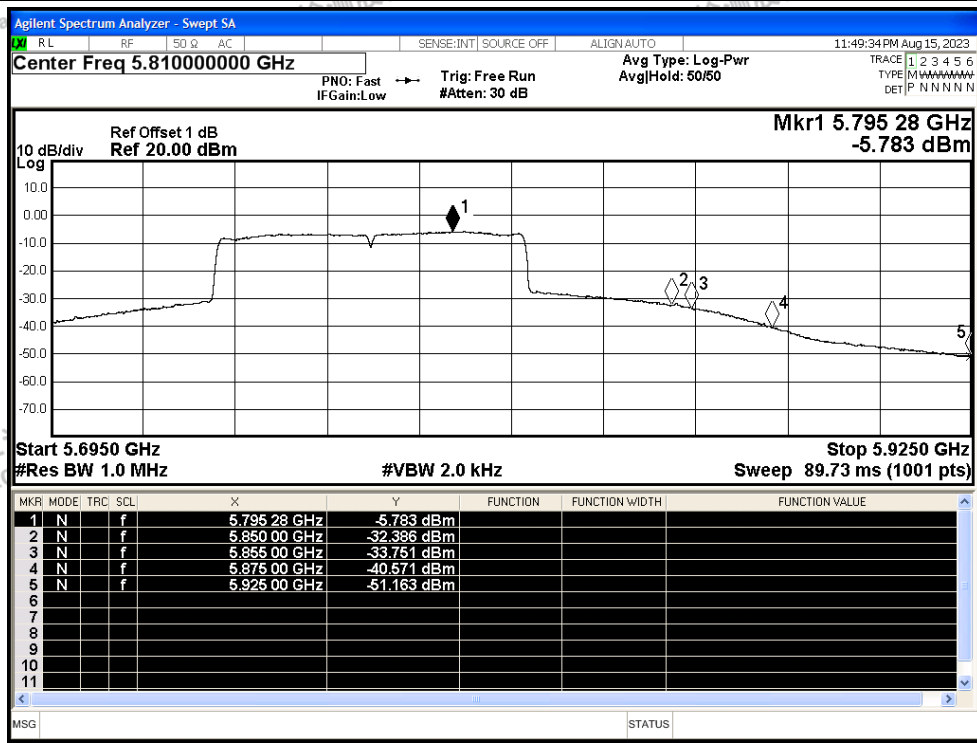




Restrict Band NVNT ac80 5775MHz MIMO Peak



Restrict Band NVNT ac80 5775MHz MIMO Average







### E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5755	Ant0	5755	0	0	25	Pass
NVNT	n40	5795	Ant0	5795	0	0	25	Pass
NVNT	ac20	5745	Ant0	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant0	5785	0	0	25	Pass
NVNT	ac20	5825	Ant0	5825	0	0	25	Pass
NVNT	ac40	5755	Ant0	5755	0	0	25	Pass
NVNT	ac40	5795	Ant0	5795	0	0	25	Pass
NVNT	ac80	5775	Ant0	5775	0	0	25	Pass

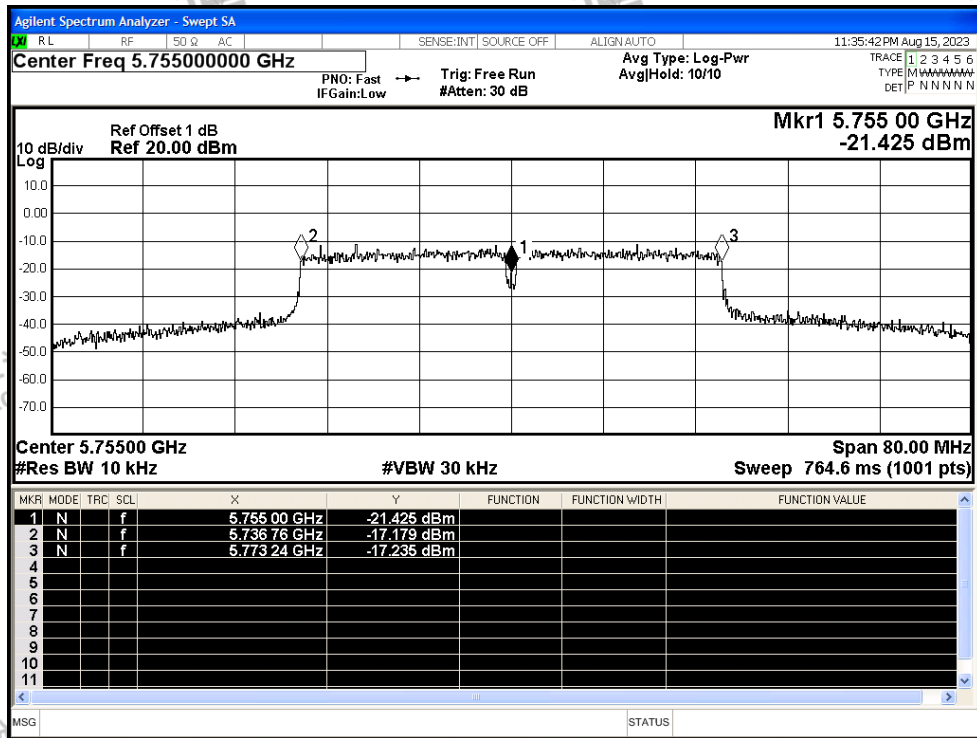


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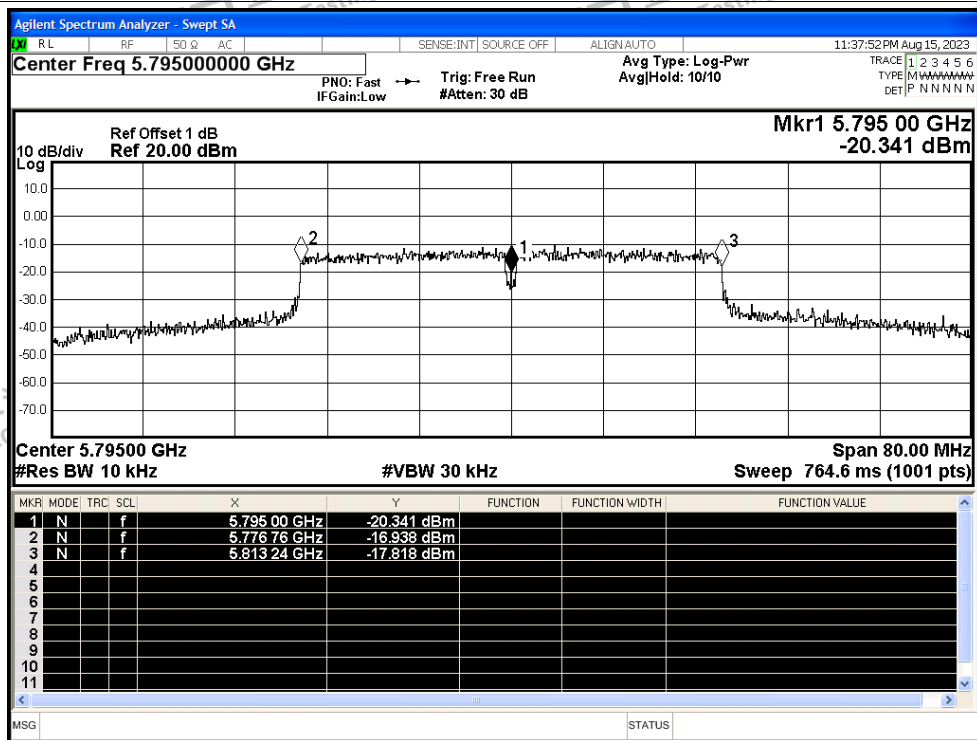


Test Graphs

Freq. Stability NVNT n40 5755MHz Ant0

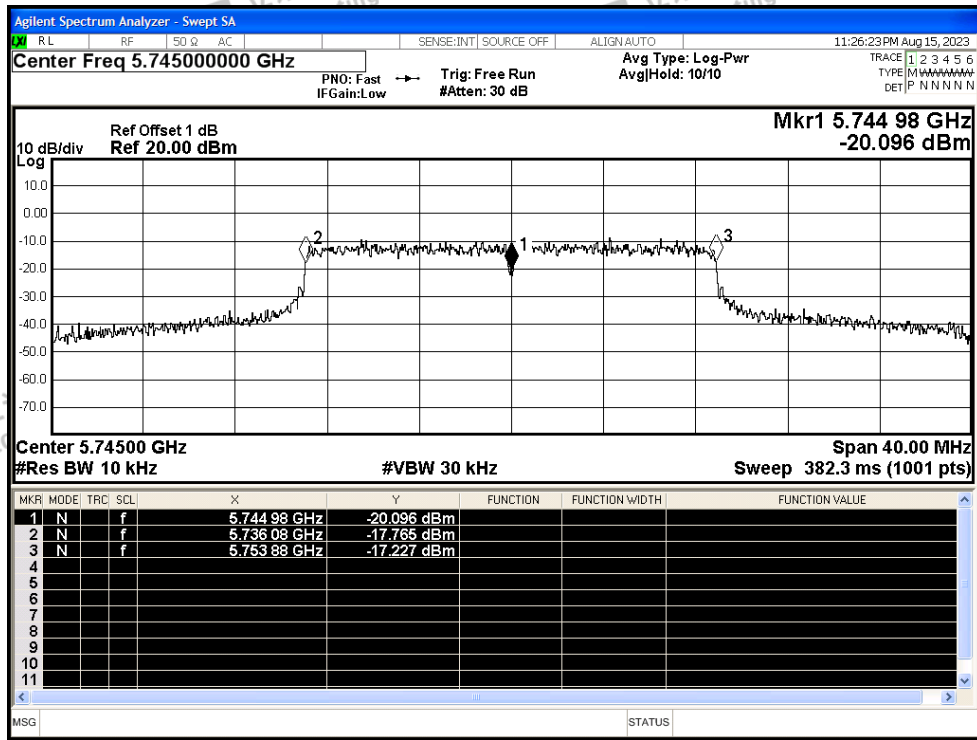


Freq. Stability NVNT n40 5795MHz Ant0

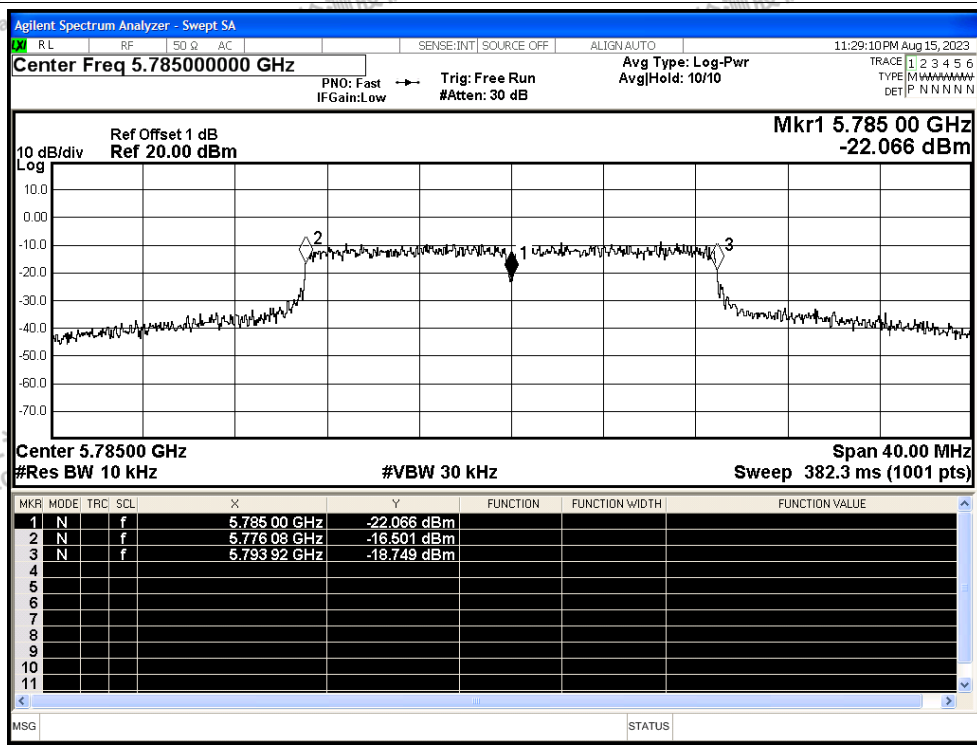




Freq. Stability NVNT ac20 5745MHz Ant0

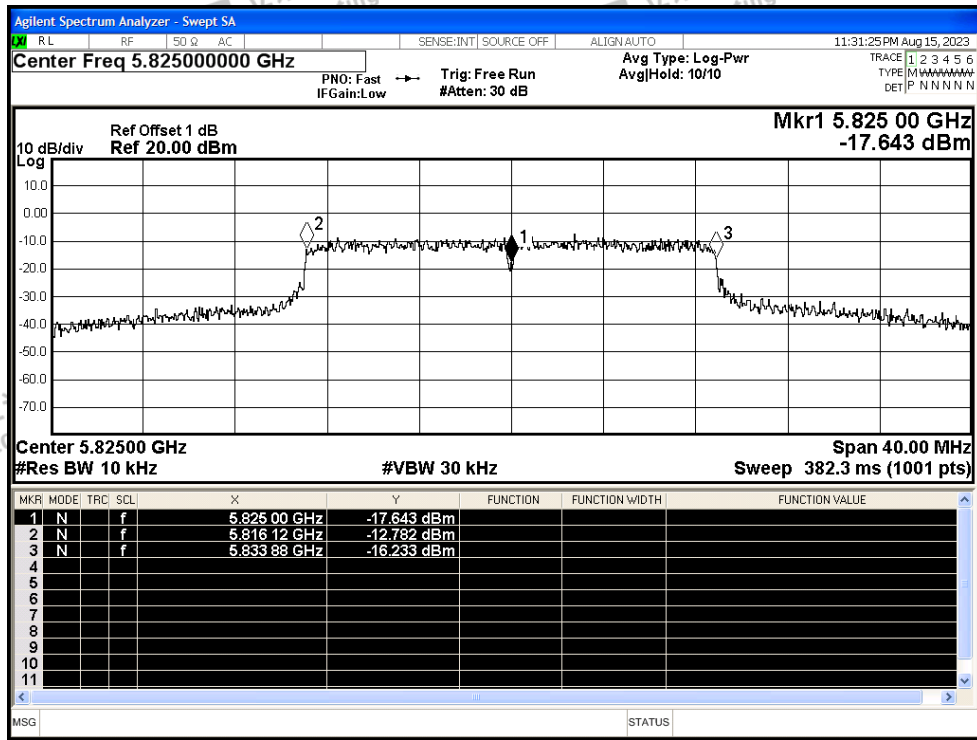


Freq. Stability NVNT ac20 5785MHz Ant0

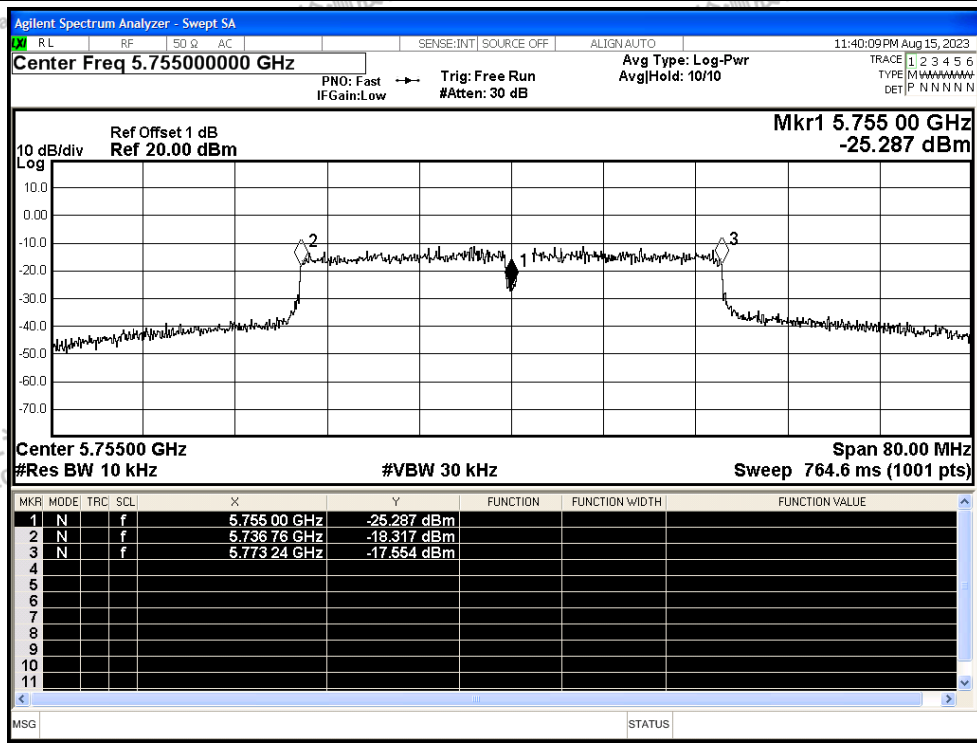




Freq. Stability NVNT ac20 5825MHz Ant0

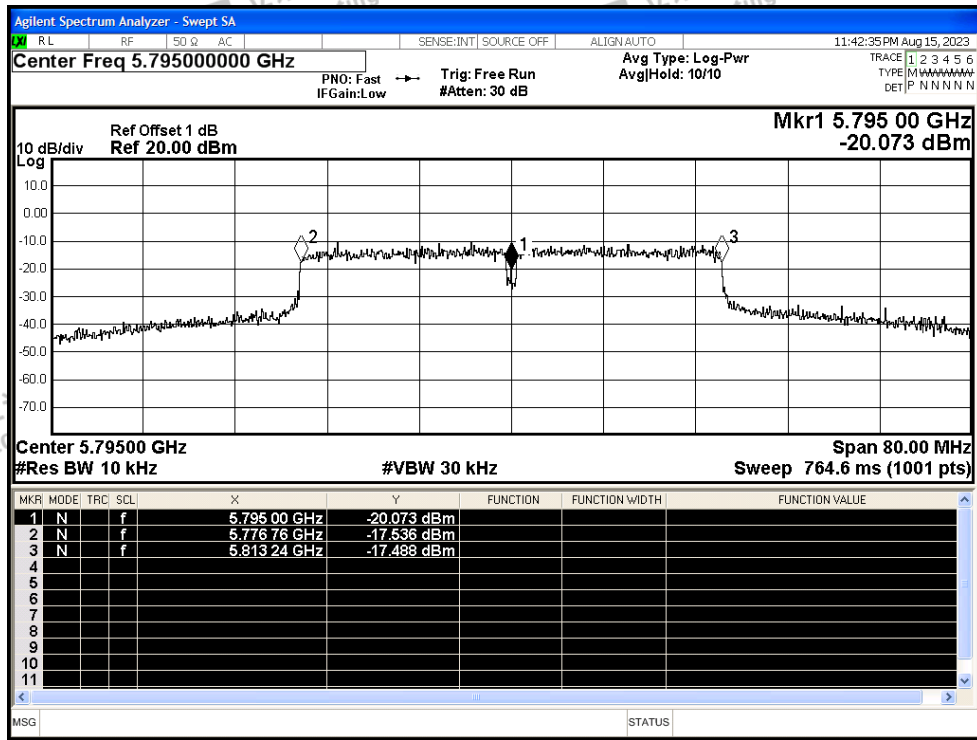


Freq. Stability NVNT ac40 5755MHz Ant0

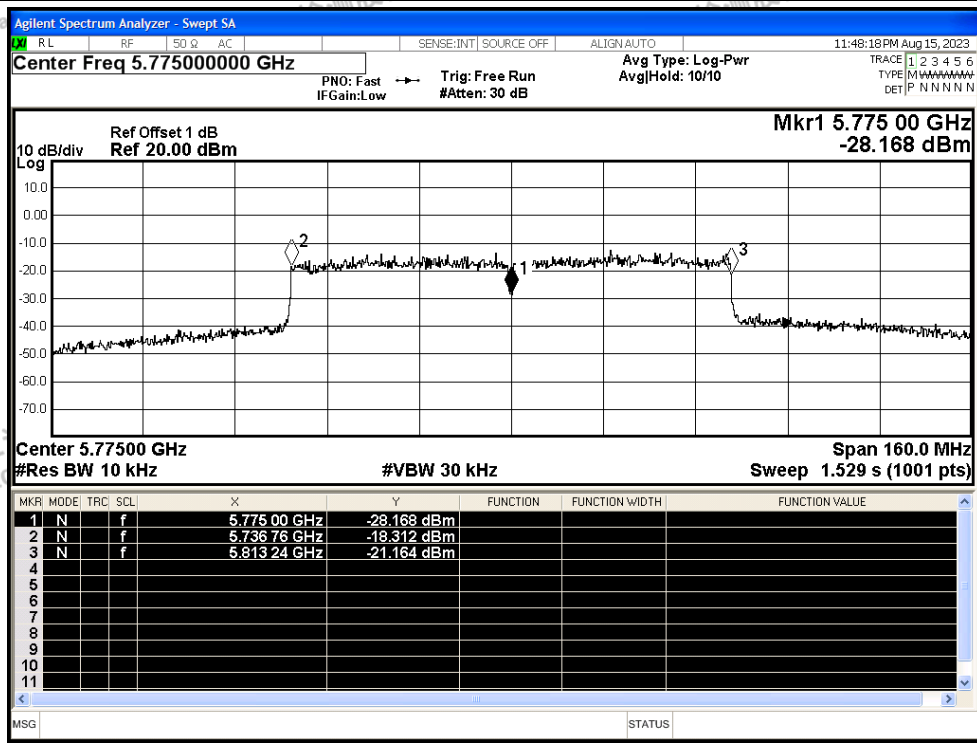




Freq. Stability NVNT ac40 5795MHz Ant0



Freq. Stability NVNT ac80 5775MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5755	Ant1	5755	0	0	25	Pass
NVNT	n40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
NVNT	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	ac20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
NVNT	ac40	5755	Ant1	5755	0	0	25	Pass
NVNT	ac40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac80	5775	Ant1	5775	0	0	25	Pass

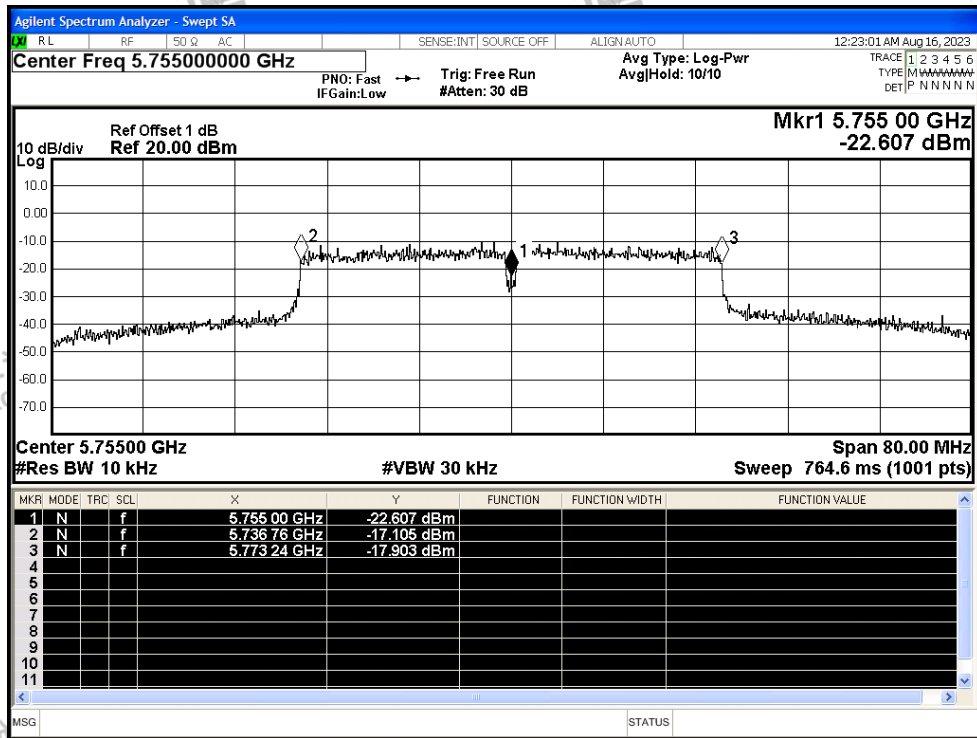


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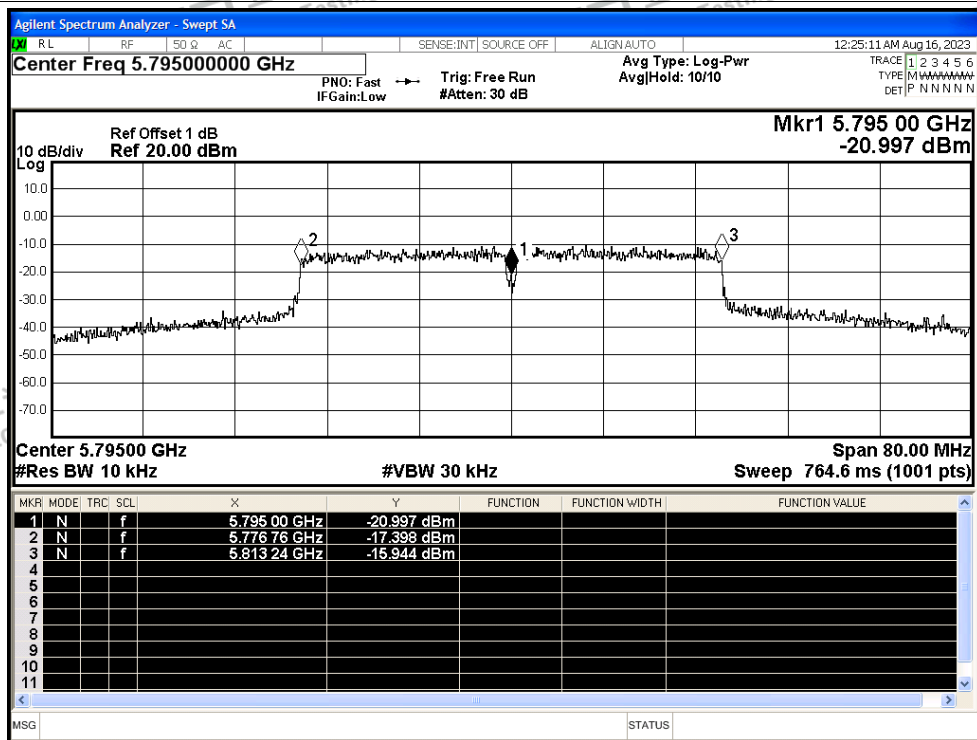


Test Graphs

Freq. Stability NVNT n40 5755MHz Ant1



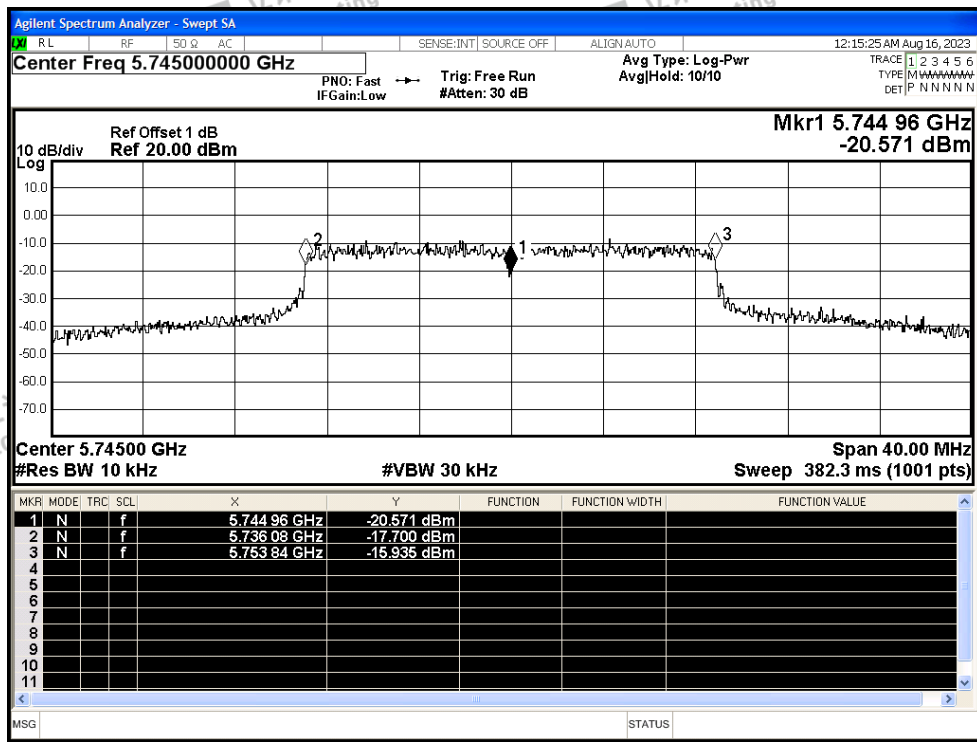
Freq. Stability NVNT n40 5795MHz Ant1



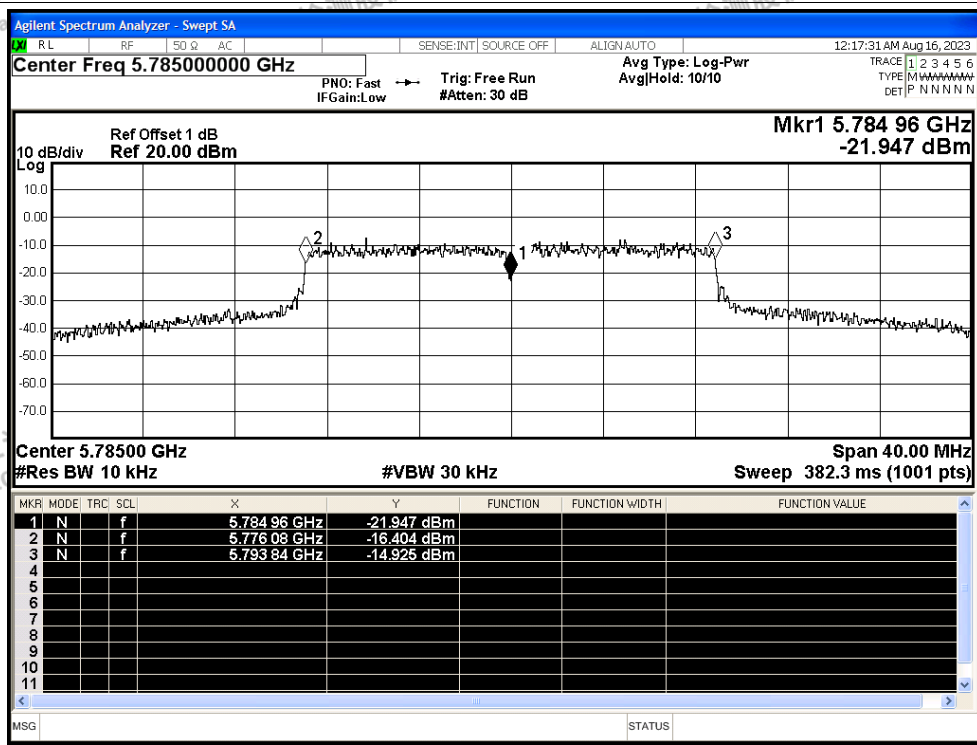




Freq. Stability NVNT ac20 5745MHz Ant1

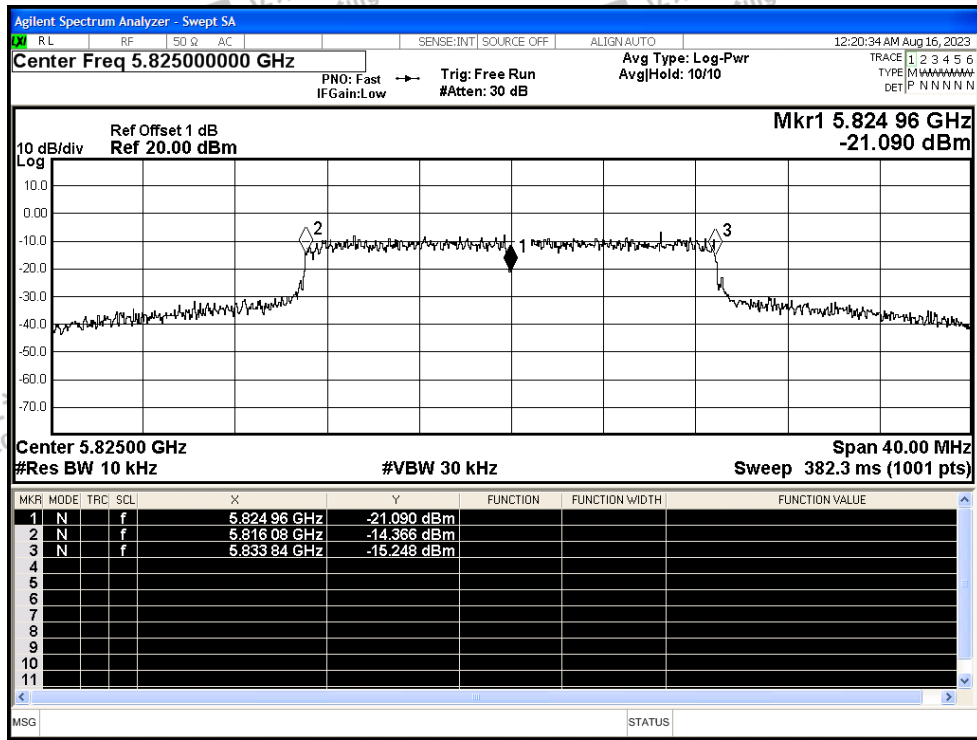


Freq. Stability NVNT ac20 5785MHz Ant1

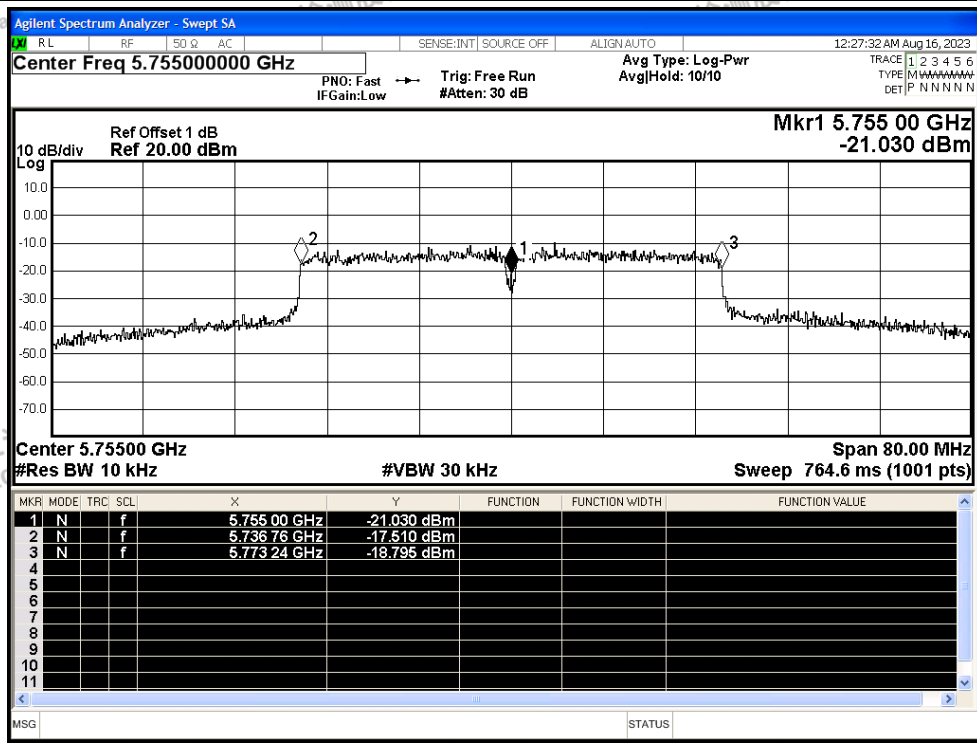




Freq. Stability NVNT ac20 5825MHz Ant1

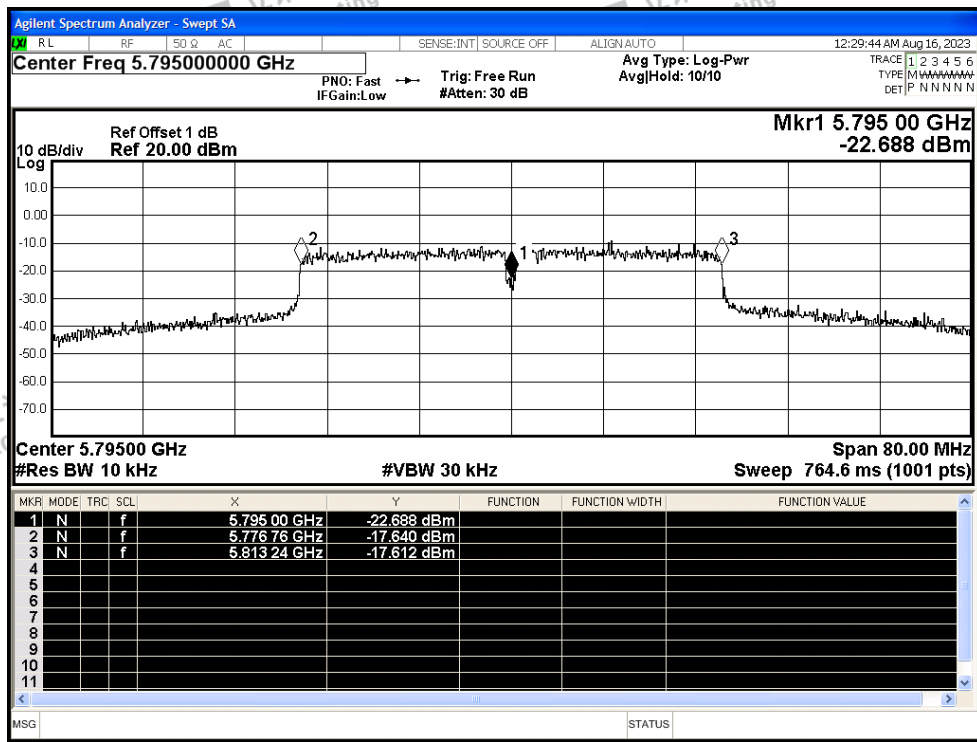


Freq. Stability NVNT ac40 5755MHz Ant1

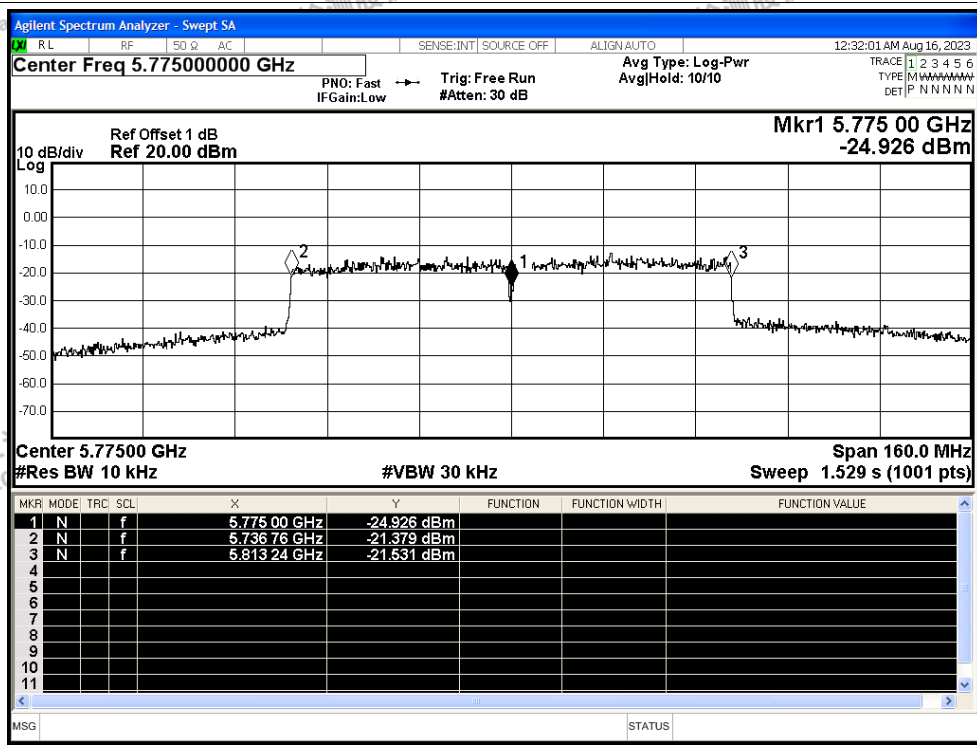




Freq. Stability NVNT ac40 5795MHz Ant1



Freq. Stability NVNT ac80 5775MHz Ant1





### E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant0	91.2	0.4	0.37
NVNT	a	5785	Ant0	91.16	0.4	0.37
NVNT	a	5825	Ant0	88.99	0.51	0.37
NVNT	n20	5745	Ant0	87.18	0.6	0.44
NVNT	n20	5785	Ant0	89.67	0.47	0.44
NVNT	n20	5825	Ant0	89.96	0.46	0.44
NVNT	n40	5755	Ant0	80.97	0.92	0.9
NVNT	n40	5795	Ant0	76.84	1.14	0.9
NVNT	ac20	5745	Ant0	89.71	0.47	0.44
NVNT	ac20	5785	Ant0	89.03	0.5	0.44
NVNT	ac20	5825	Ant0	89.67	0.47	0.44
NVNT	ac40	5755	Ant0	81.6	0.88	0.9
NVNT	ac40	5795	Ant0	81.6	0.88	0.9
NVNT	ac80	5775	Ant0	68.15	1.67	1.86

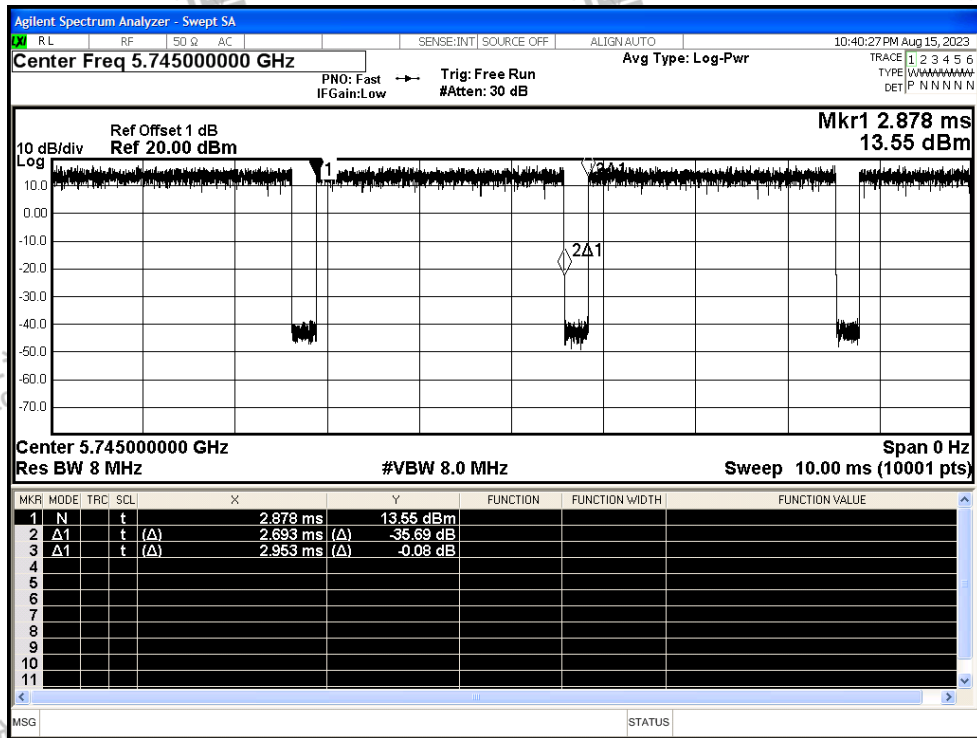


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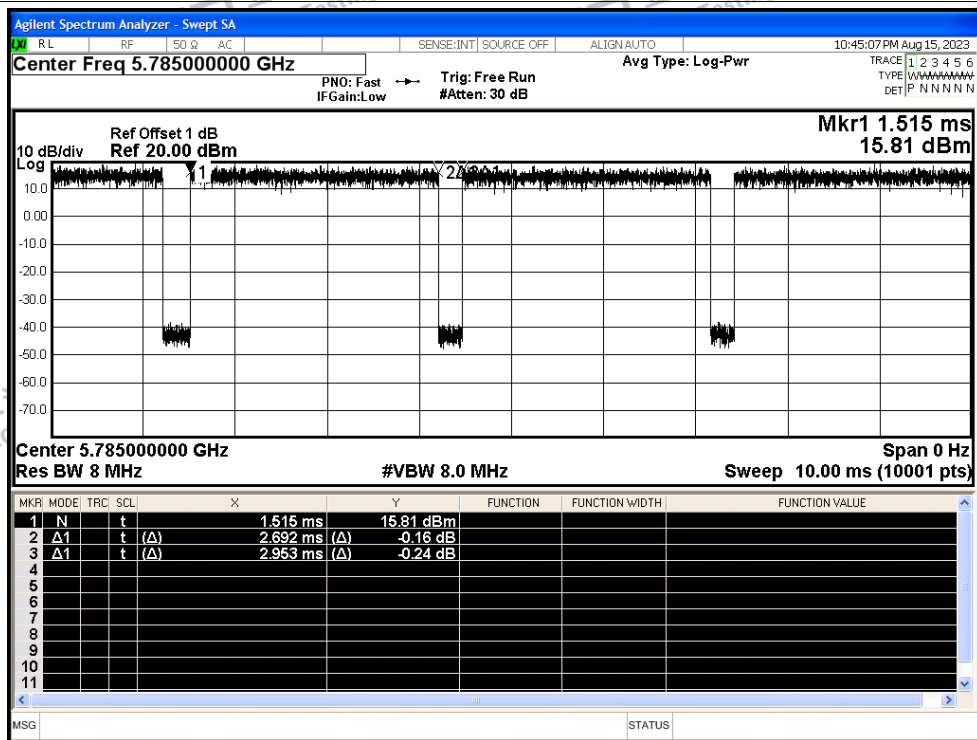


Test Graphs

Duty Cycle NVNT a 5745MHz Ant0

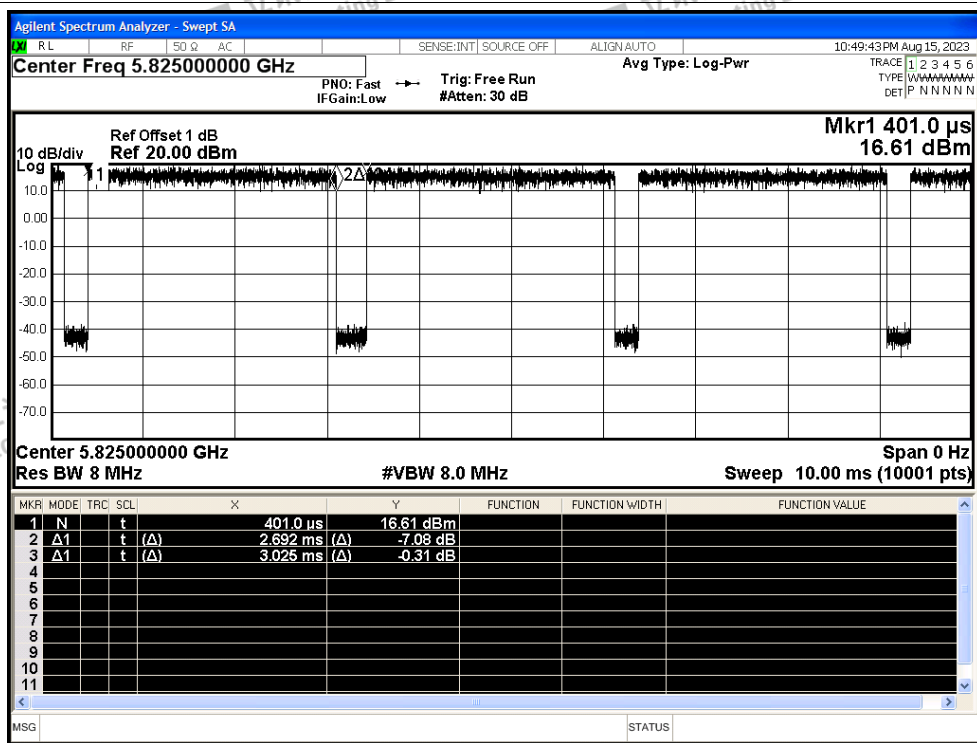


Duty Cycle NVNT a 5785MHz Ant0

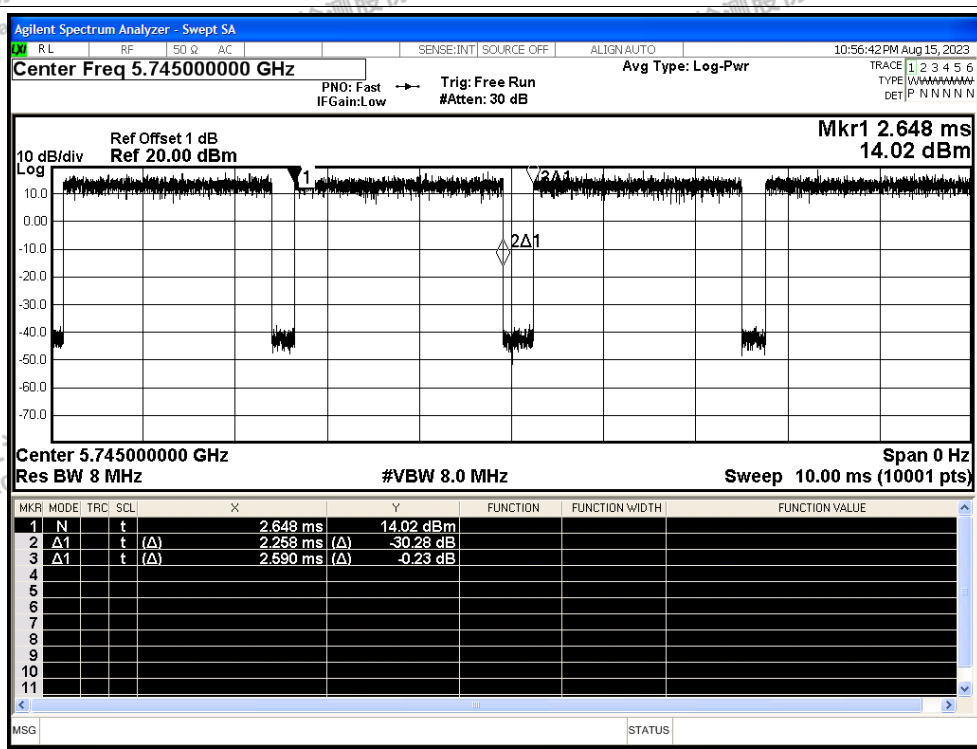




Duty Cycle NVNT a 5825MHz Ant0

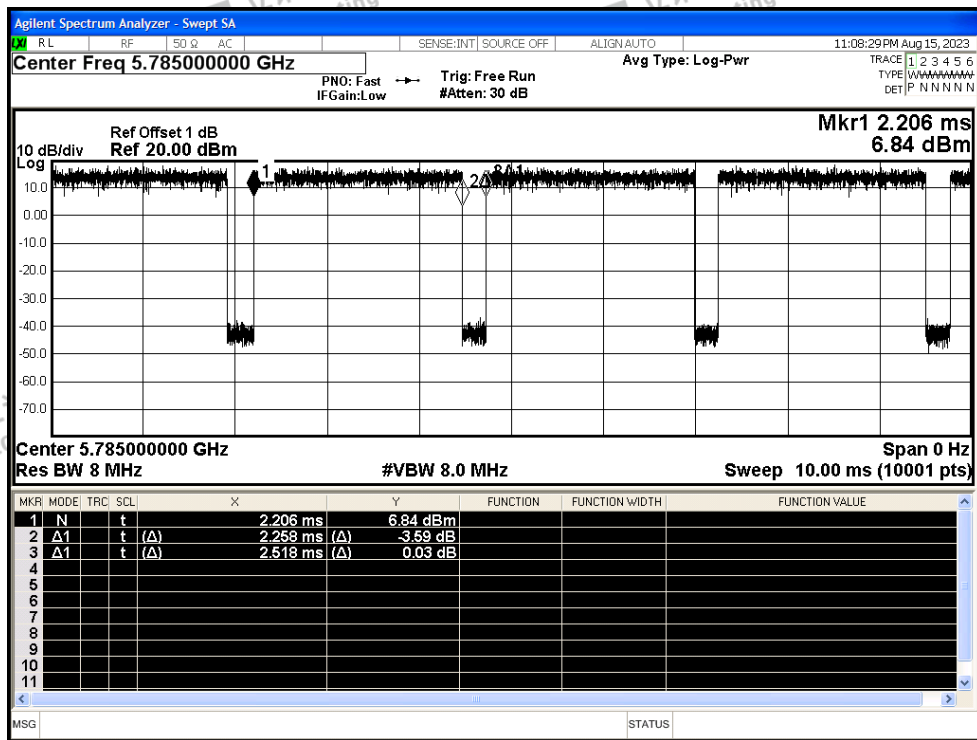


Duty Cycle NVNT n20 5745MHz Ant0

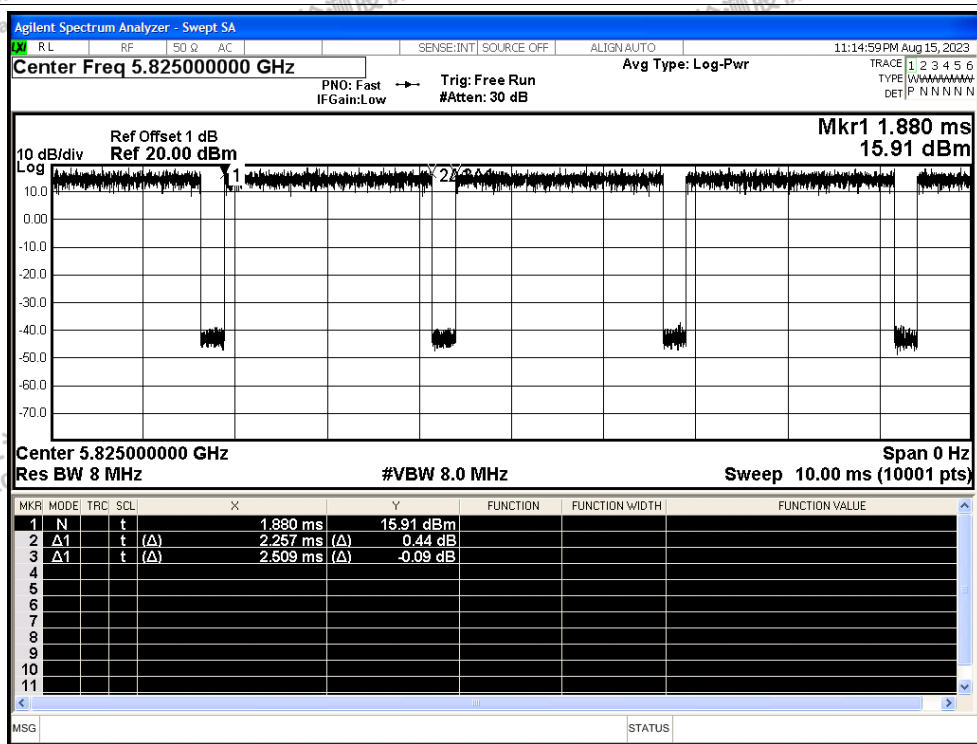




Duty Cycle NVNT n20 5785MHz Ant0



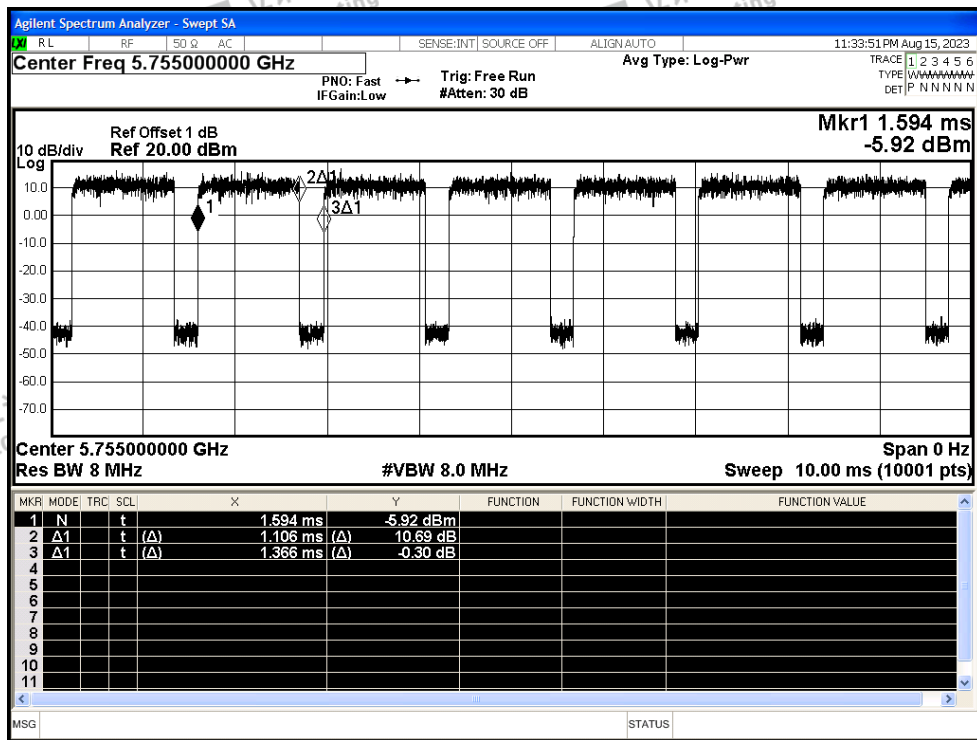
Duty Cycle NVNT n20 5825MHz Ant0



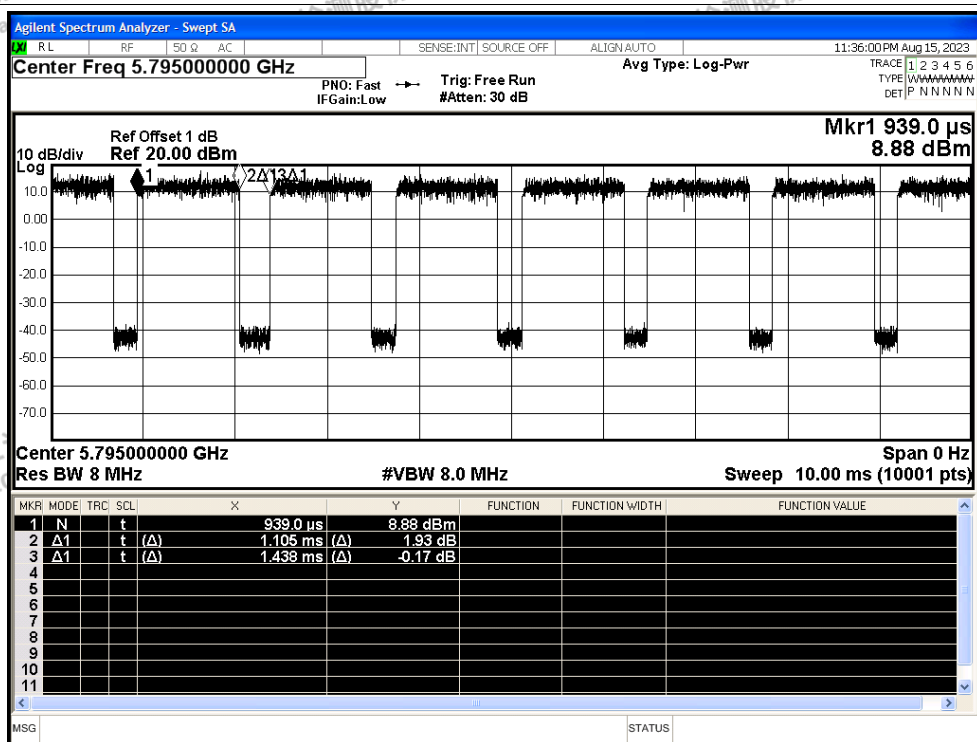




Duty Cycle NVNT n40 5755MHz Ant0

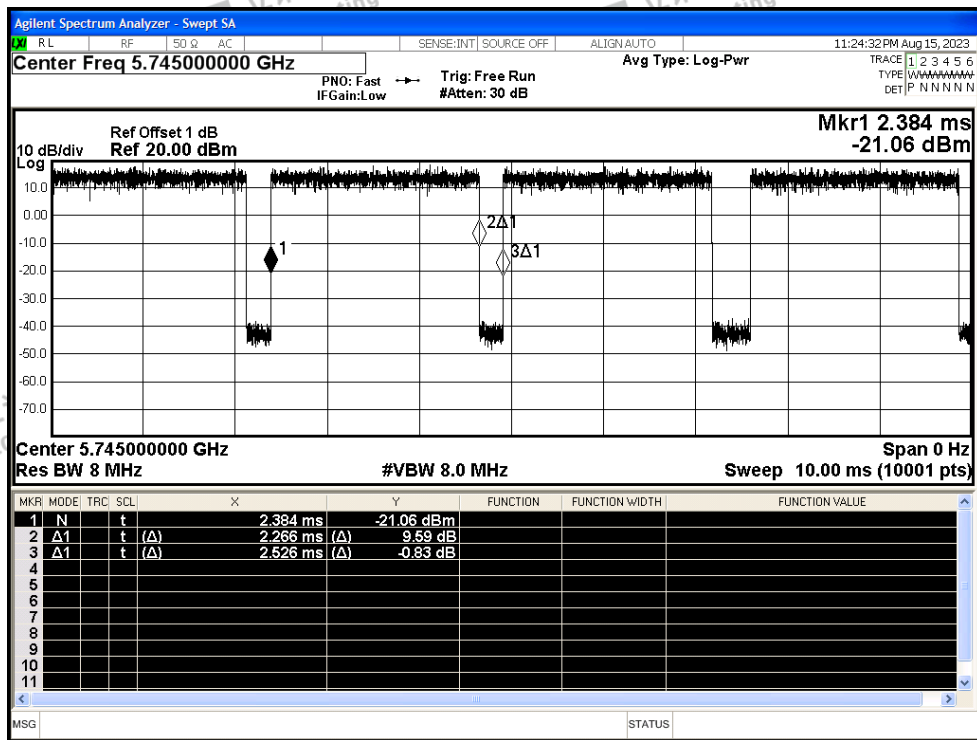


Duty Cycle NVNT n40 5795MHz Ant0

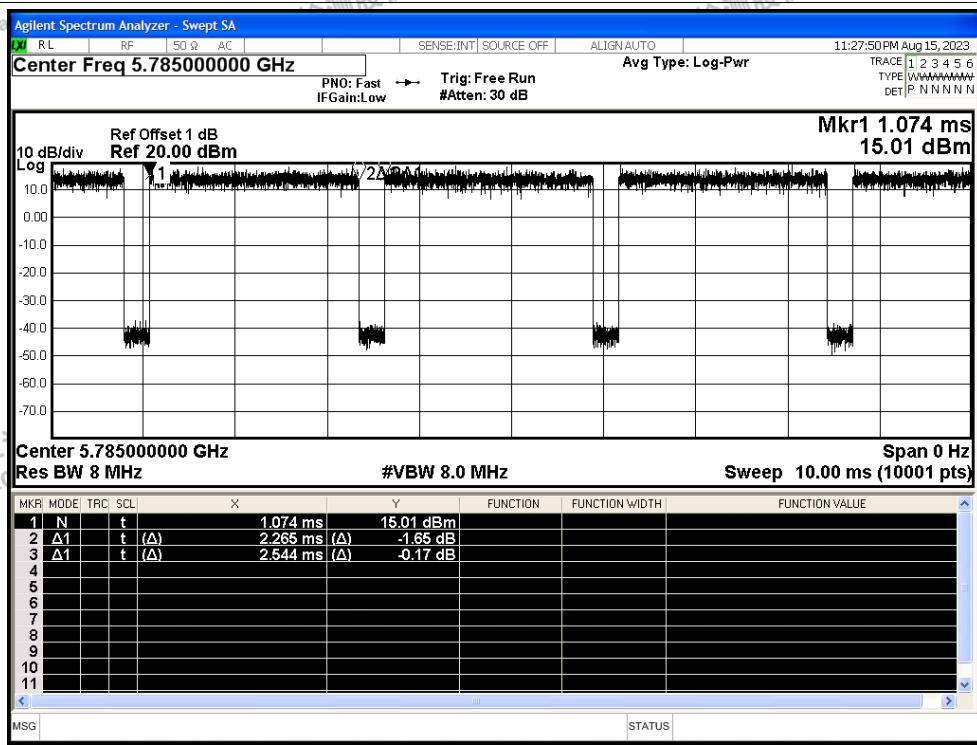




Duty Cycle NVNT ac20 5745MHz Ant0

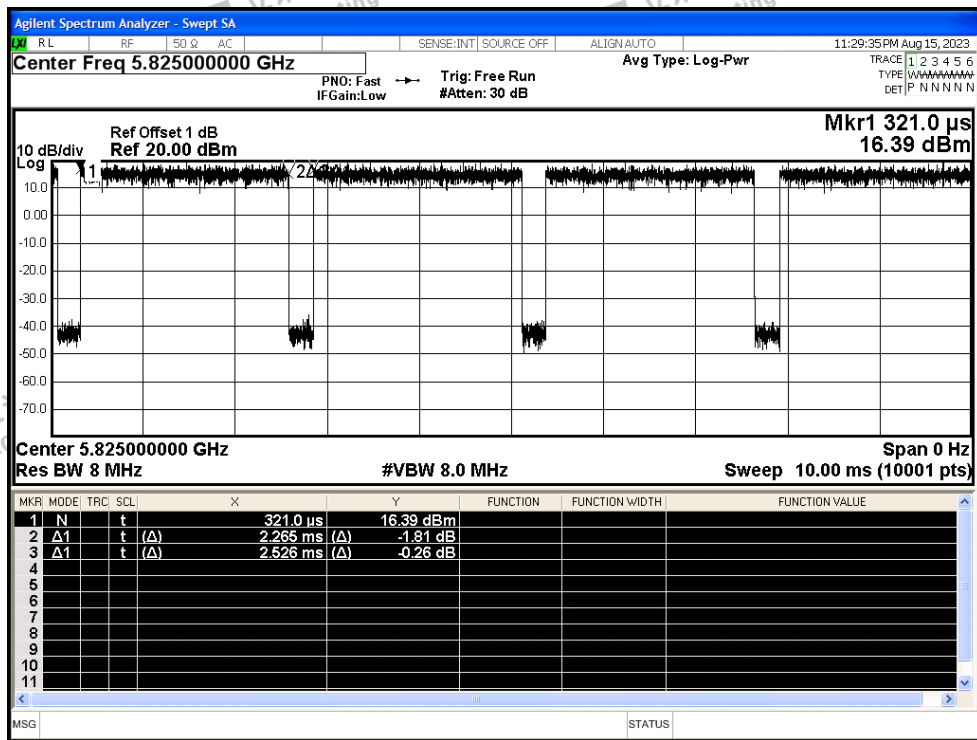


Duty Cycle NVNT ac20 5785MHz Ant0

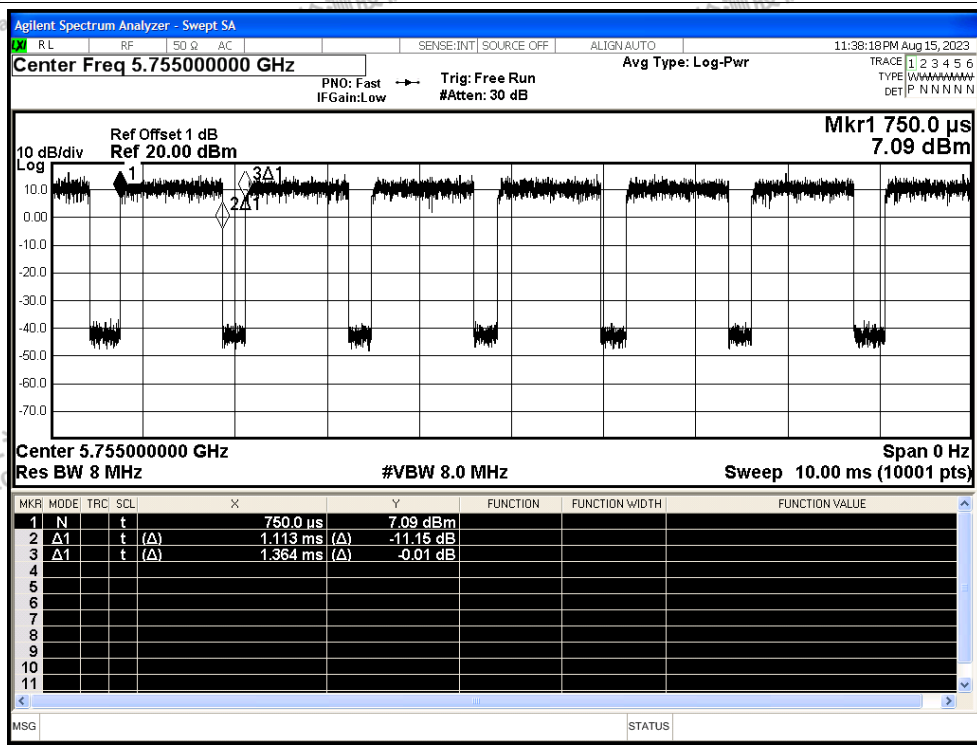




Duty Cycle NVNT ac20 5825MHz Ant0

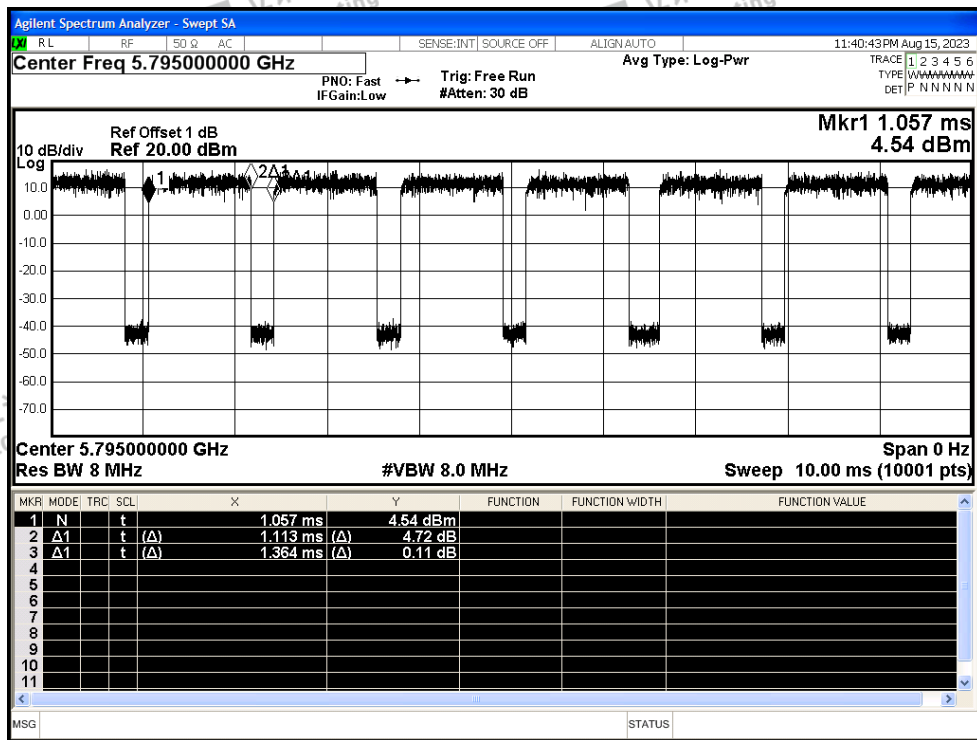


Duty Cycle NVNT ac40 5755MHz Ant0

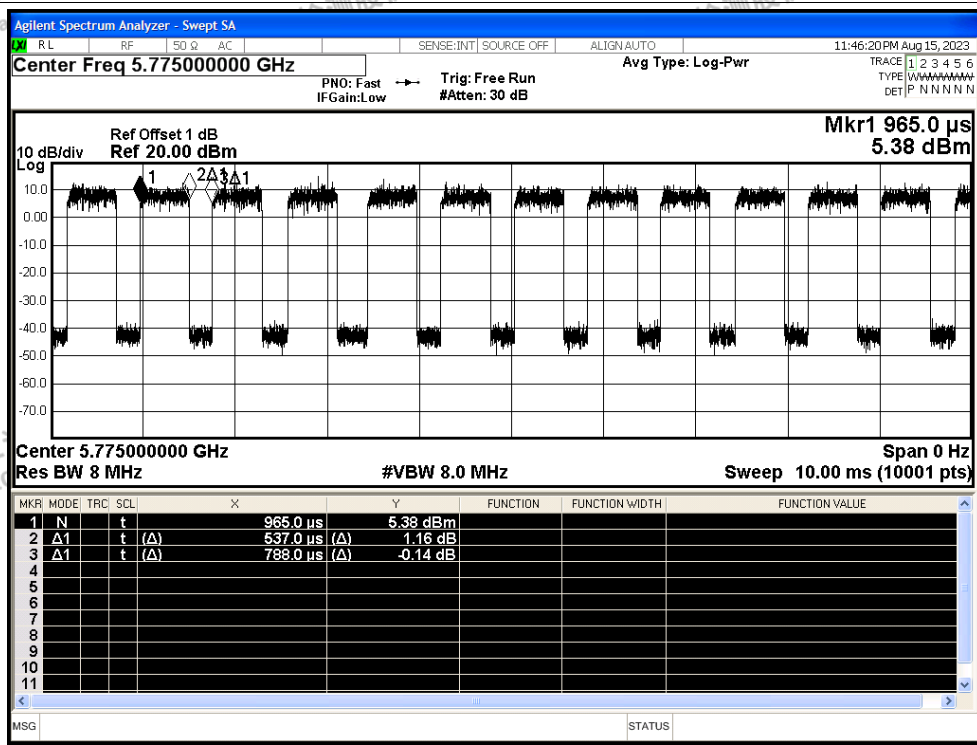




Duty Cycle NVNT ac40 5795MHz Ant0



Duty Cycle NVNT ac80 5775MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	91.44	0.39	0.37
NVNT	a	5785	Ant1	91.47	0.39	0.37
NVNT	a	5825	Ant1	88.2	0.55	0.37
NVNT	n20	5745	Ant1	89.63	0.48	0.44
NVNT	n20	5785	Ant1	90	0.46	0.44
NVNT	n20	5825	Ant1	89	0.51	0.44
NVNT	n40	5755	Ant1	81.5	0.89	0.9
NVNT	n40	5795	Ant1	81.5	0.89	0.9
NVNT	ac20	5745	Ant1	89.67	0.47	0.44
NVNT	ac20	5785	Ant1	89.39	0.49	0.44
NVNT	ac20	5825	Ant1	89.99	0.46	0.44
NVNT	ac40	5755	Ant1	81.14	0.91	0.9
NVNT	ac40	5795	Ant1	77.58	1.1	0.9
NVNT	ac80	5775	Ant1	62.44	2.05	1.86

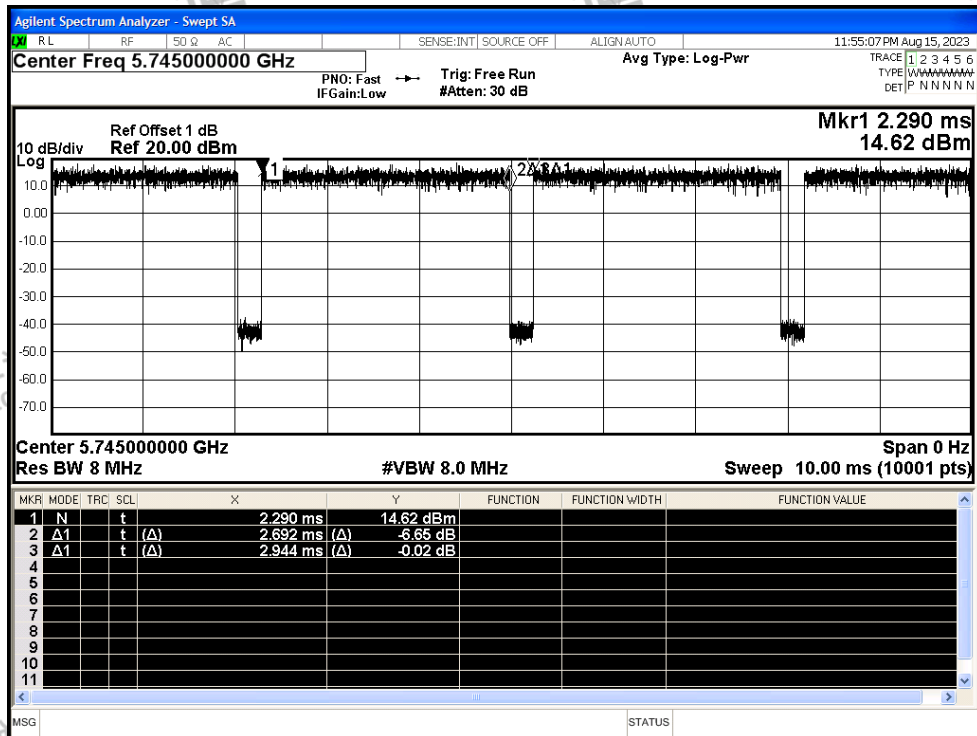


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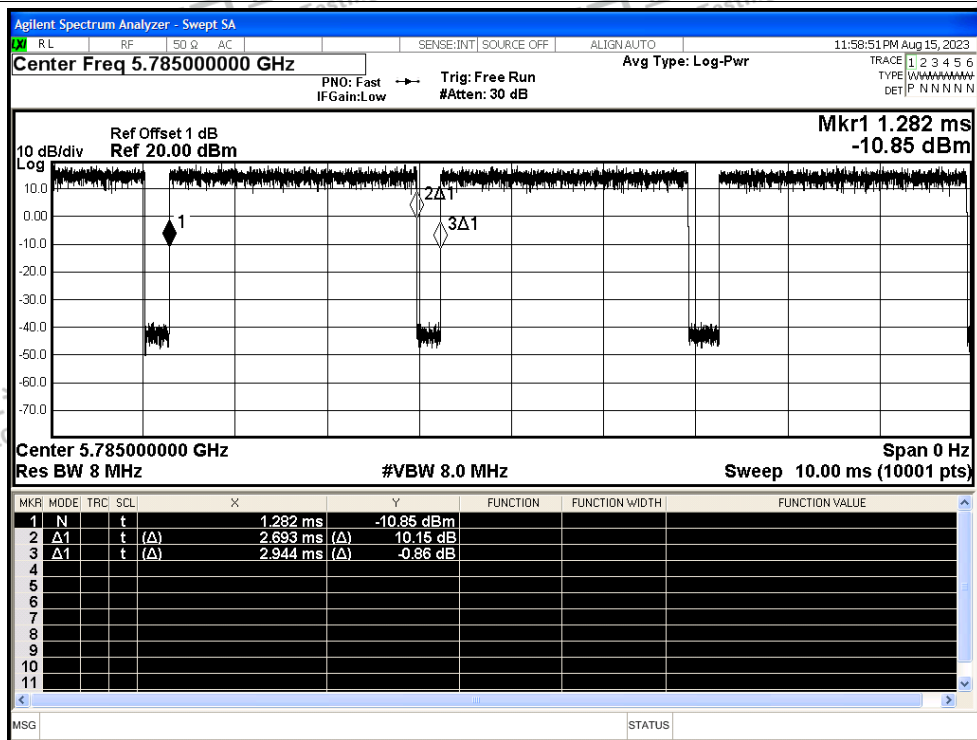


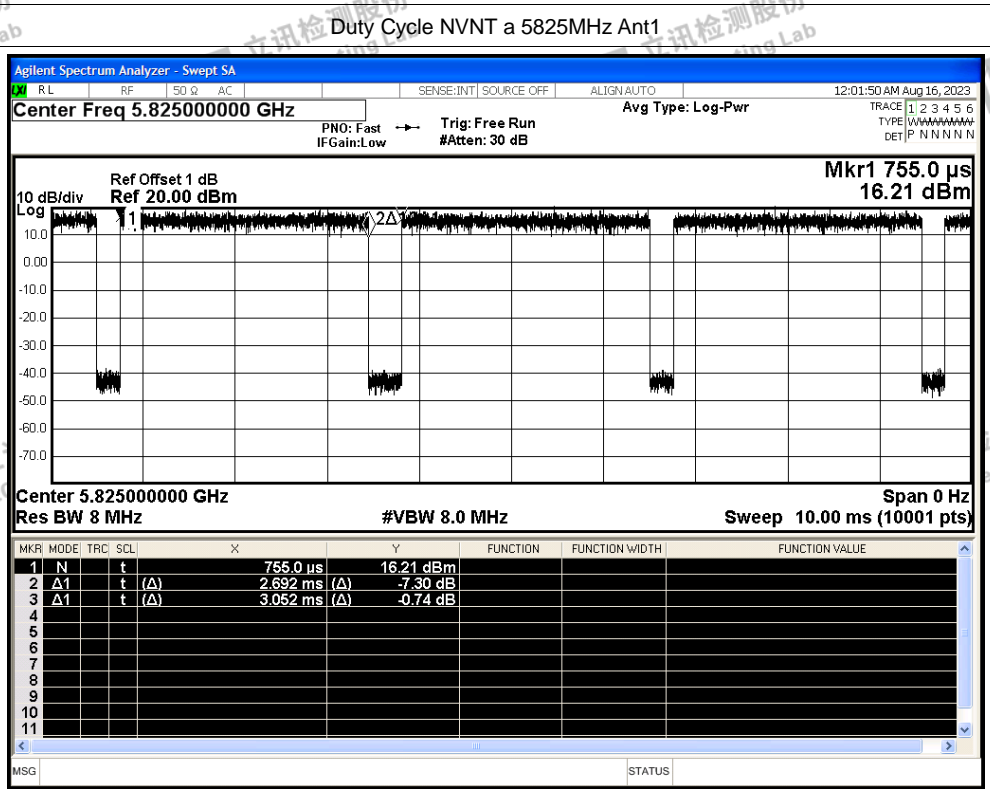
Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

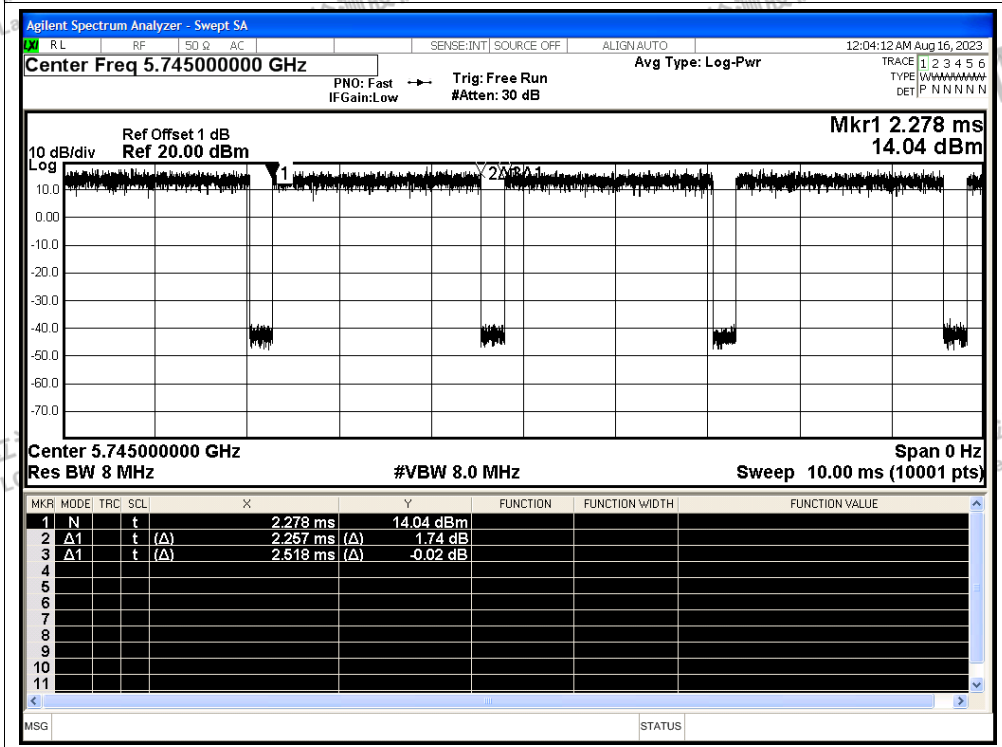


Duty Cycle NVNT a 5785MHz Ant1





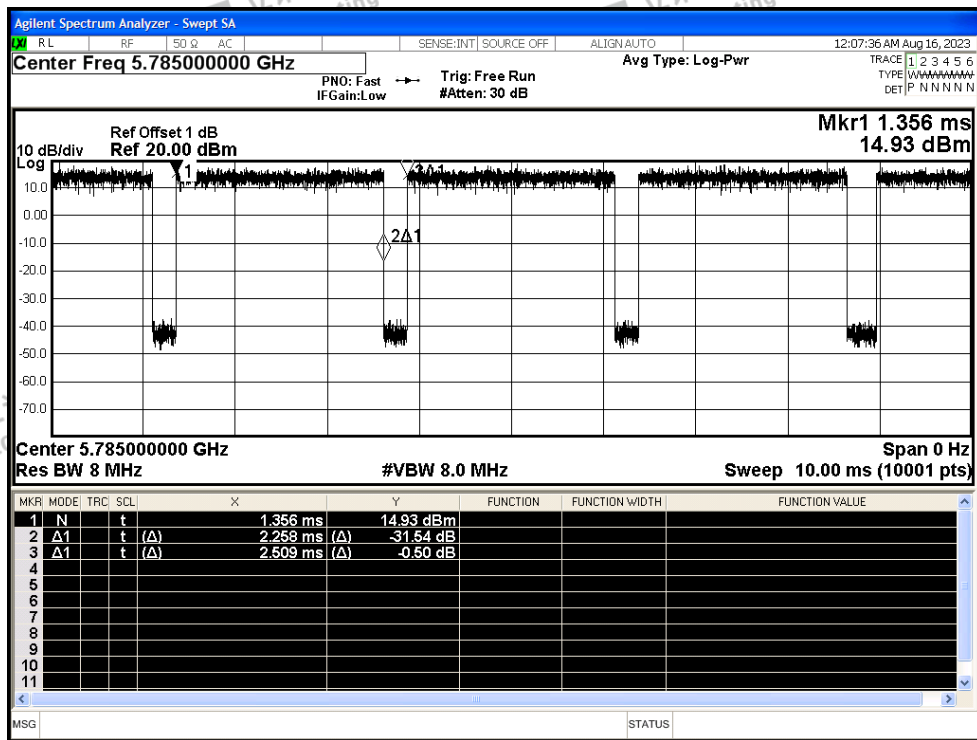
Duty Cycle NVNT n20 5745MHz Ant1



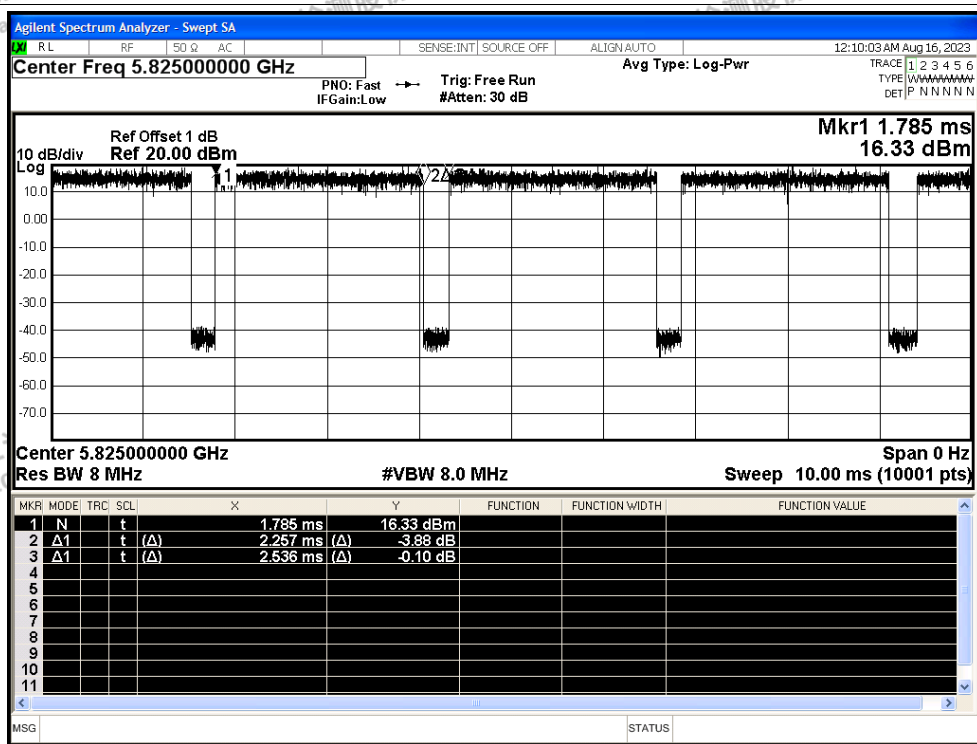




Duty Cycle NVNT n20 5785MHz Ant1

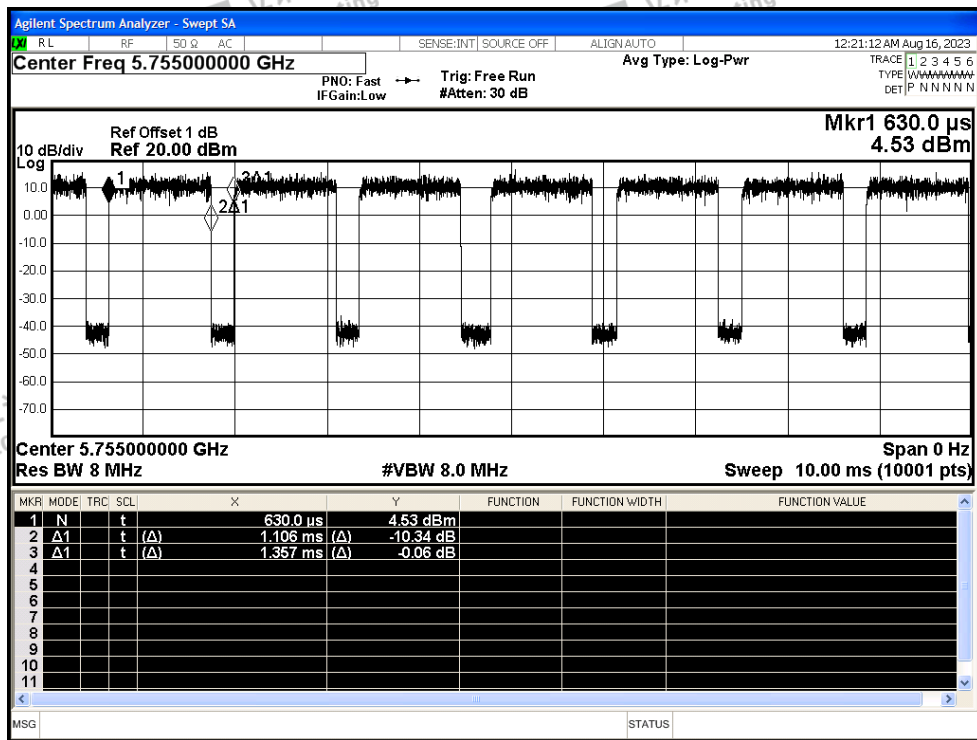


Duty Cycle NVNT n20 5825MHz Ant1

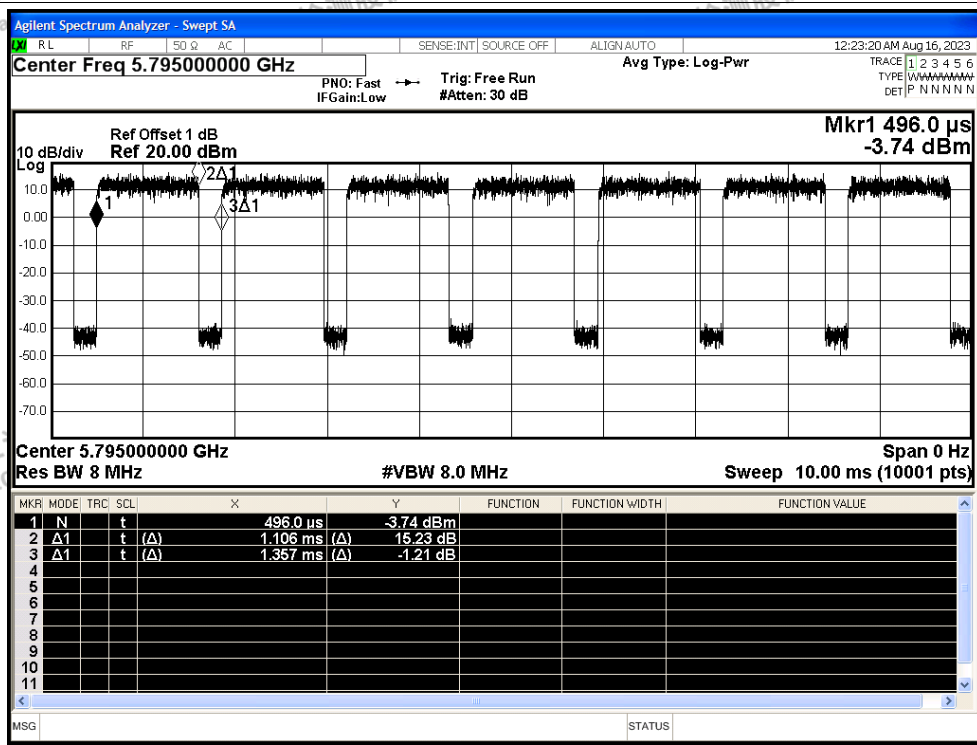




Duty Cycle NVNT n40 5755MHz Ant1

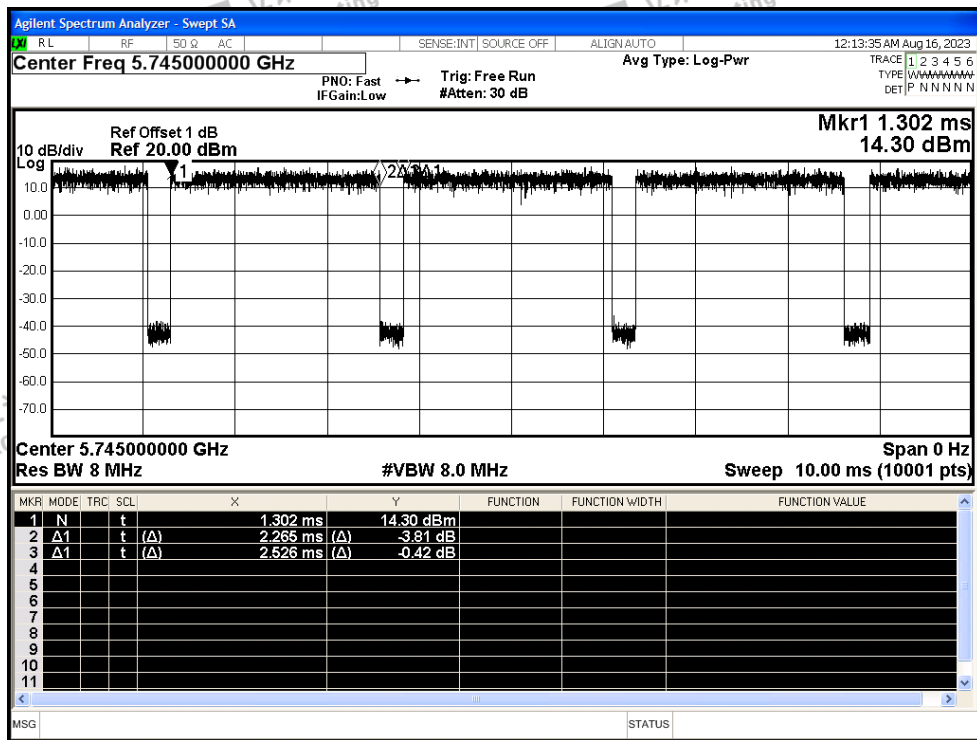


Duty Cycle NVNT n40 5795MHz Ant1

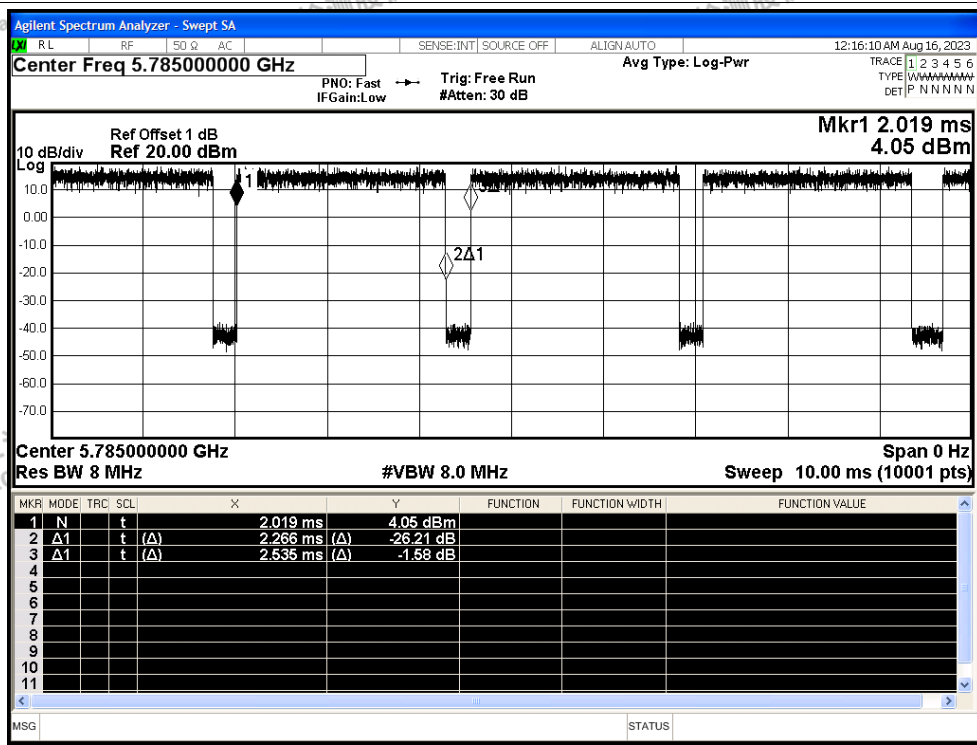




Duty Cycle NVNT ac20 5745MHz Ant1

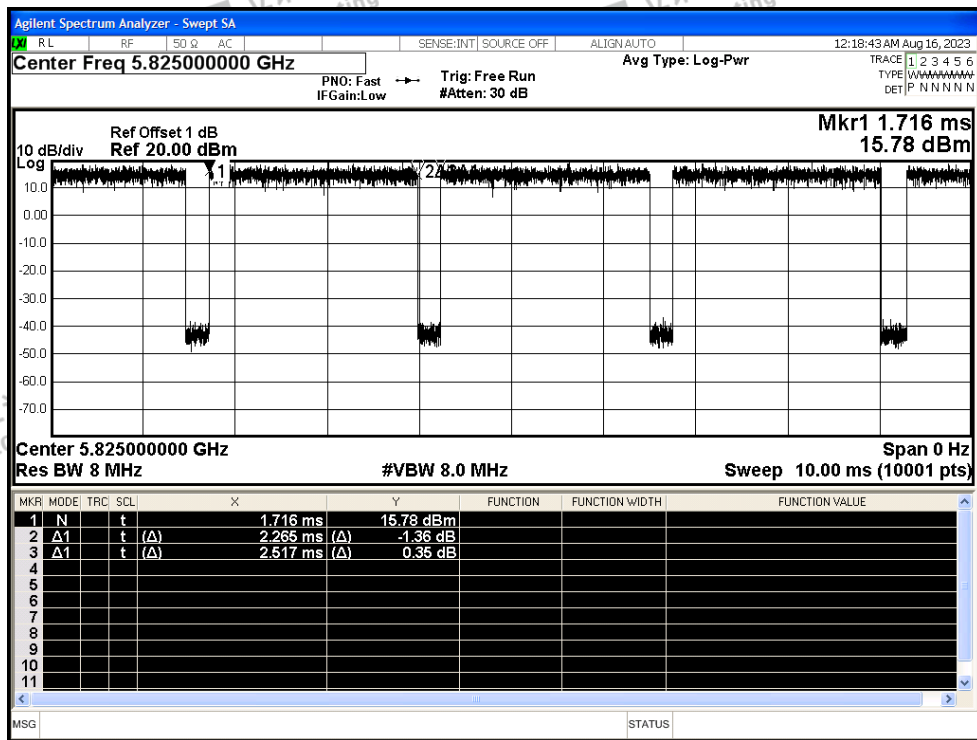


Duty Cycle NVNT ac20 5785MHz Ant1

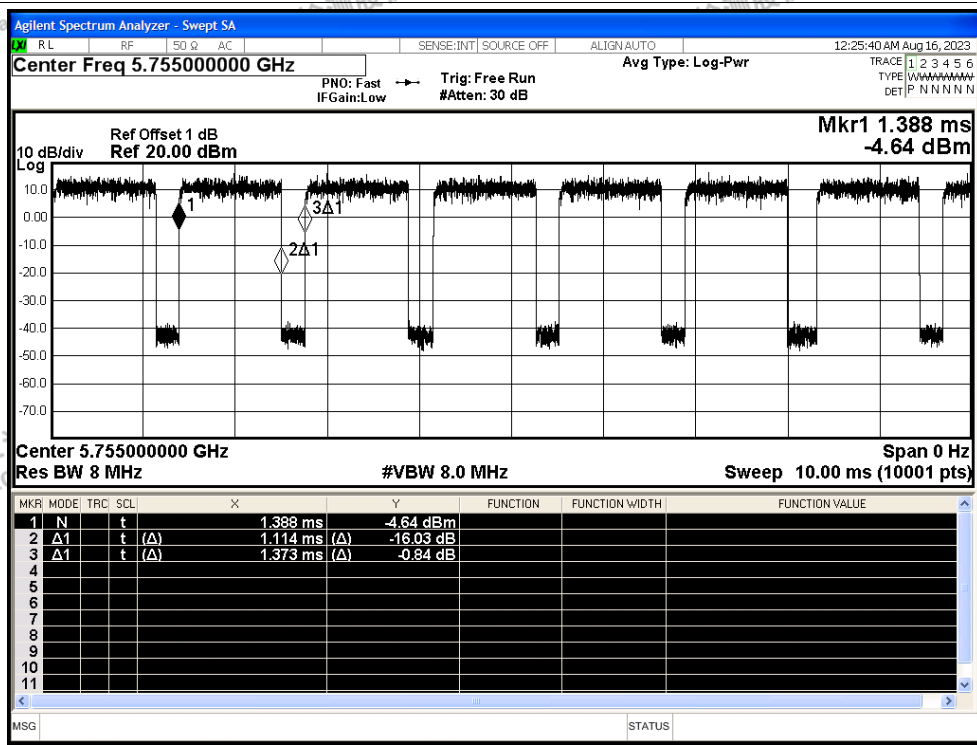




Duty Cycle NVNT ac20 5825MHz Ant1

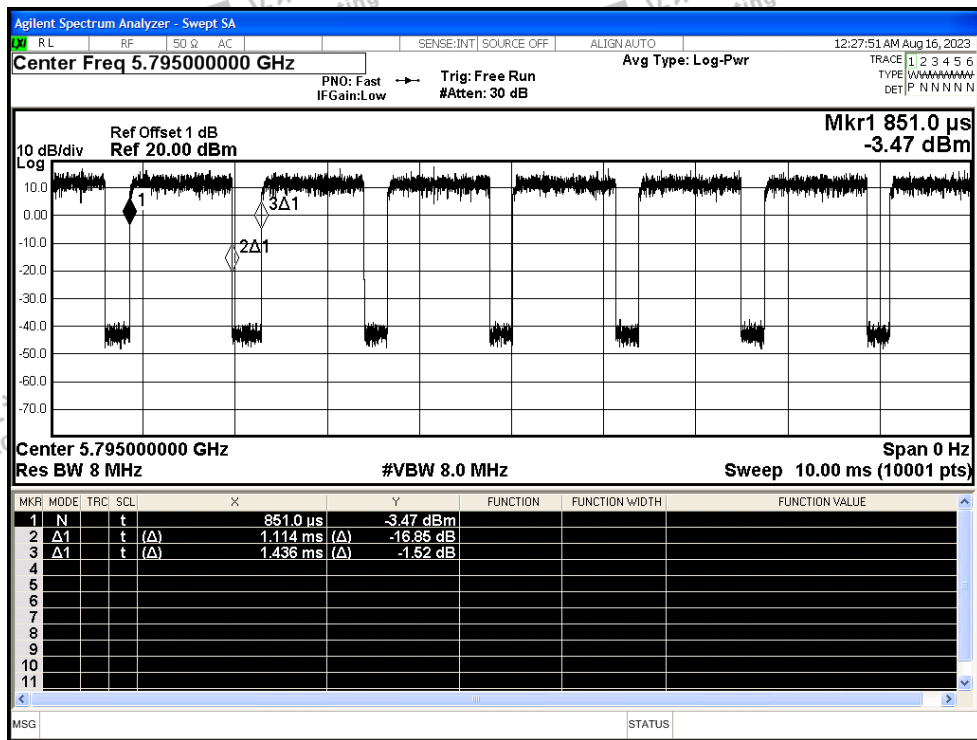


Duty Cycle NVNT ac40 5755MHz Ant1





Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1

