Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Smart Module

Test Model: SOM-3568-SMARC

Environmental Conditions

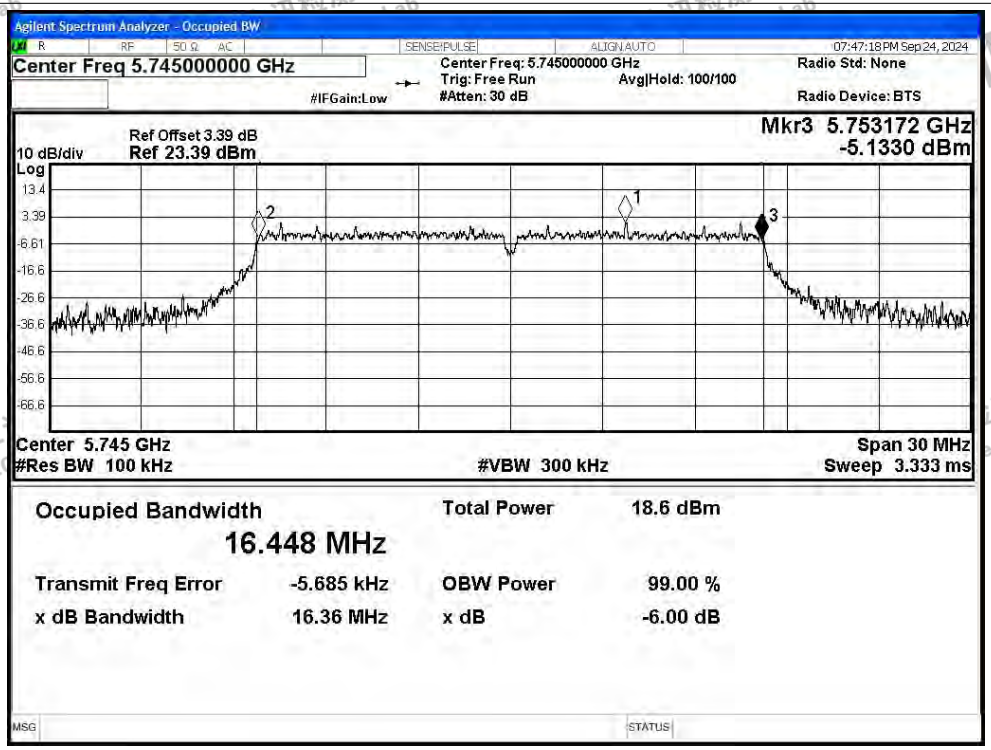
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng

E.1 -6dB Bandwidth

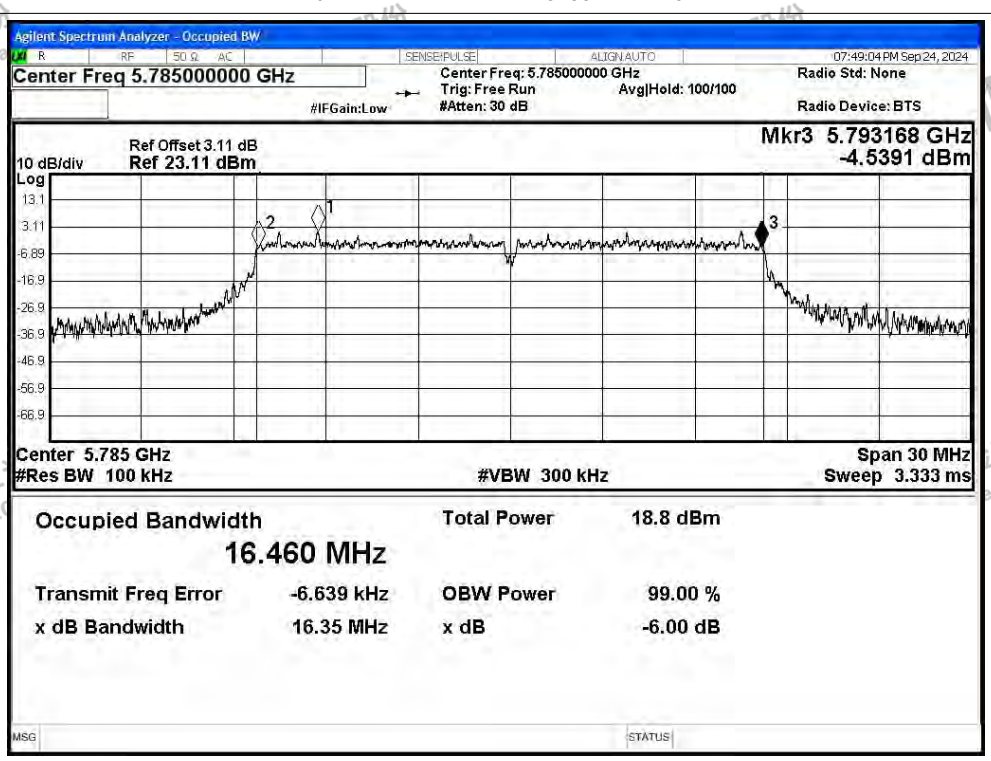
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	16.356	>=0.5	Pass
NVNT	a	5785	Ant0	16.35	>=0.5	Pass
NVNT	a	5825	Ant0	16.337	>=0.5	Pass
NVNT	n20	5745	Ant0	17.533	>=0.5	Pass
NVNT	n20	5785	Ant0	17.579	>=0.5	Pass
NVNT	n20	5825	Ant0	17.528	>=0.5	Pass
NVNT	n40	5755	Ant0	36.431	>=0.5	Pass
NVNT	n40	5795	Ant0	35.994	>=0.5	Pass
NVNT	ac20	5745	Ant0	17.292	>=0.5	Pass
NVNT	ac20	5785	Ant0	17.502	>=0.5	Pass
NVNT	ac20	5825	Ant0	17.512	>=0.5	Pass
NVNT	ac40	5755	Ant0	36.286	>=0.5	Pass
NVNT	ac40	5795	Ant0	36.295	>=0.5	Pass
NVNT	ac80	5775	Ant0	75.455	>=0.5	Pass

Test Graphs

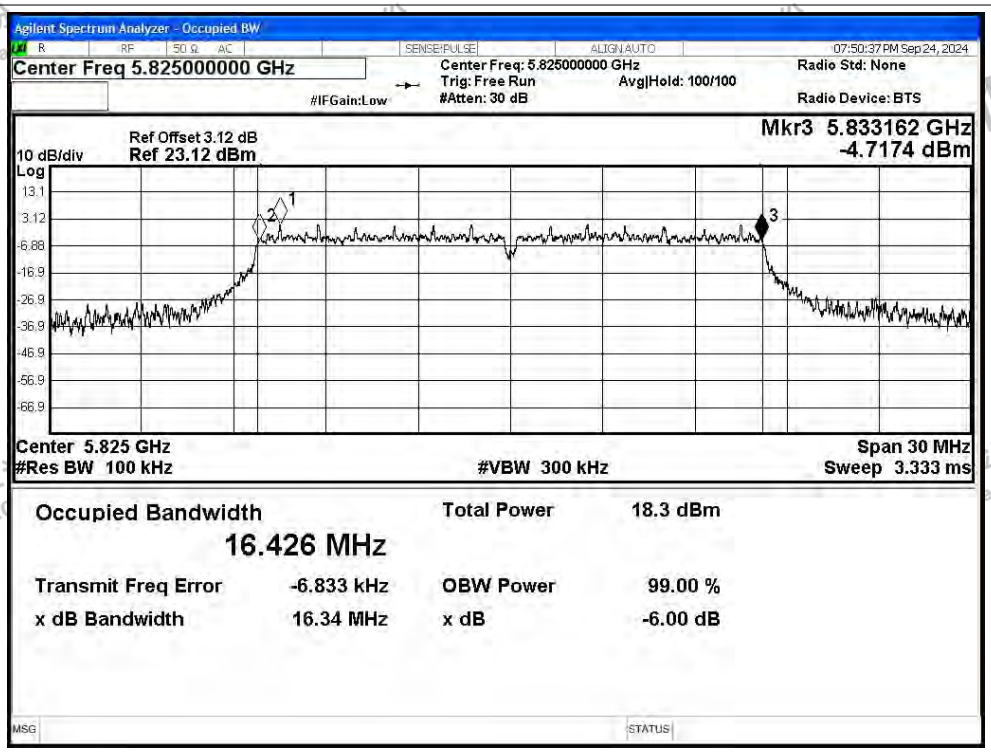
-6dB Bandwidth NVNT a 5745MHz Ant0



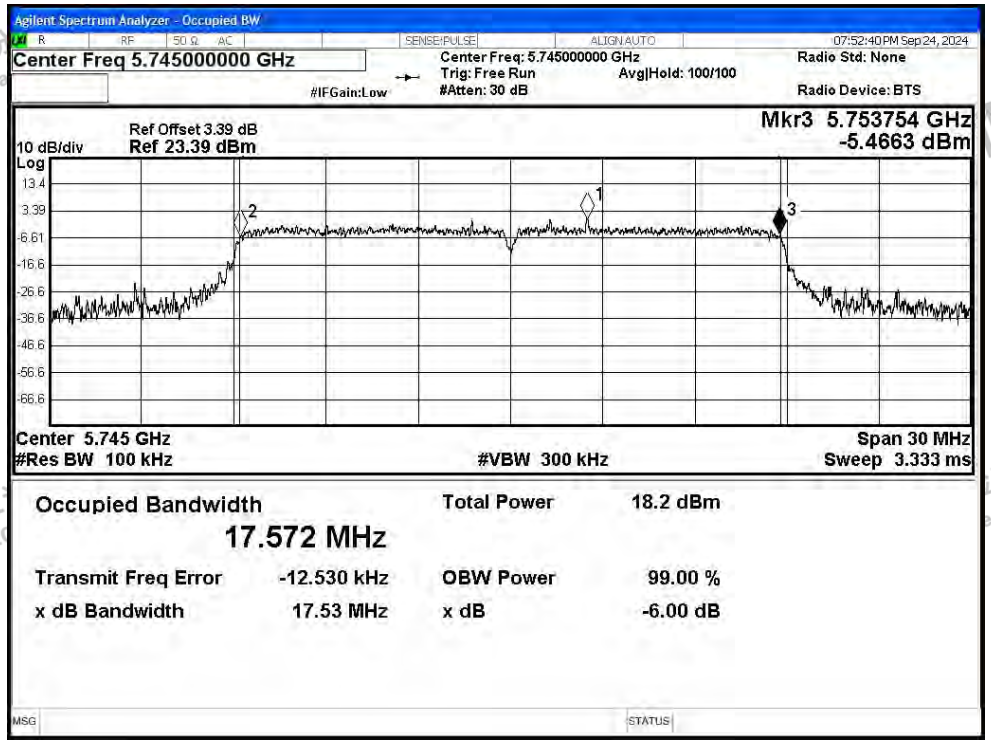
-6dB Bandwidth NVNT a 5785MHz Ant0



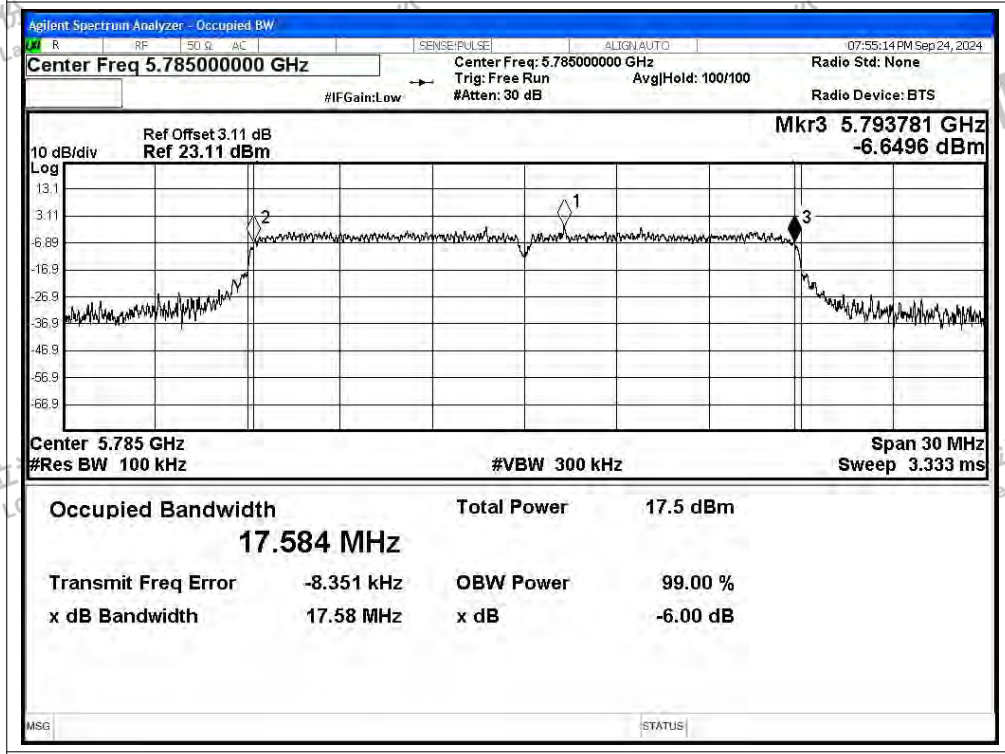
-6dB Bandwidth NVNT a 5825MHz Ant0



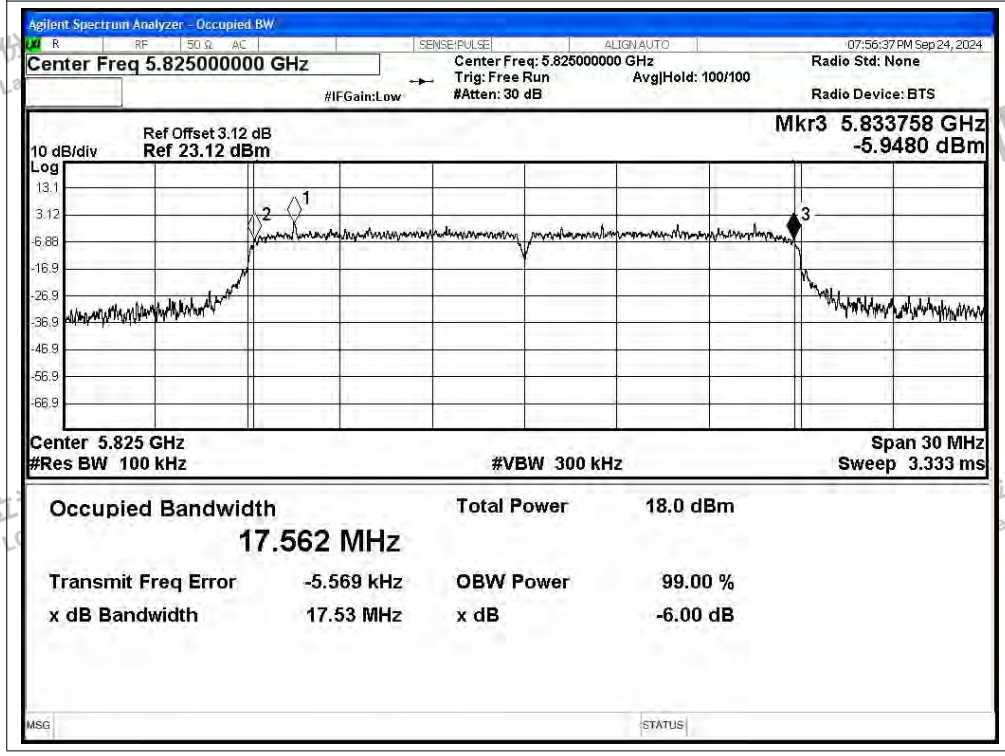
-6dB Bandwidth NVNT n20 5745MHz Ant0



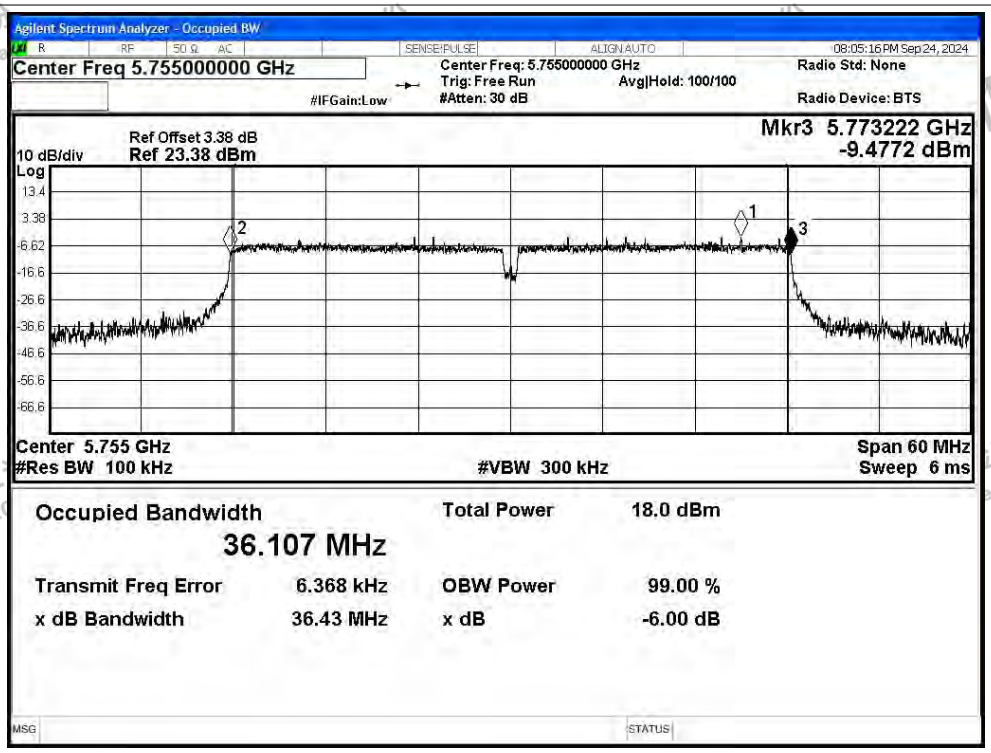
-6dB Bandwidth NVNT n20 5785MHz Ant0



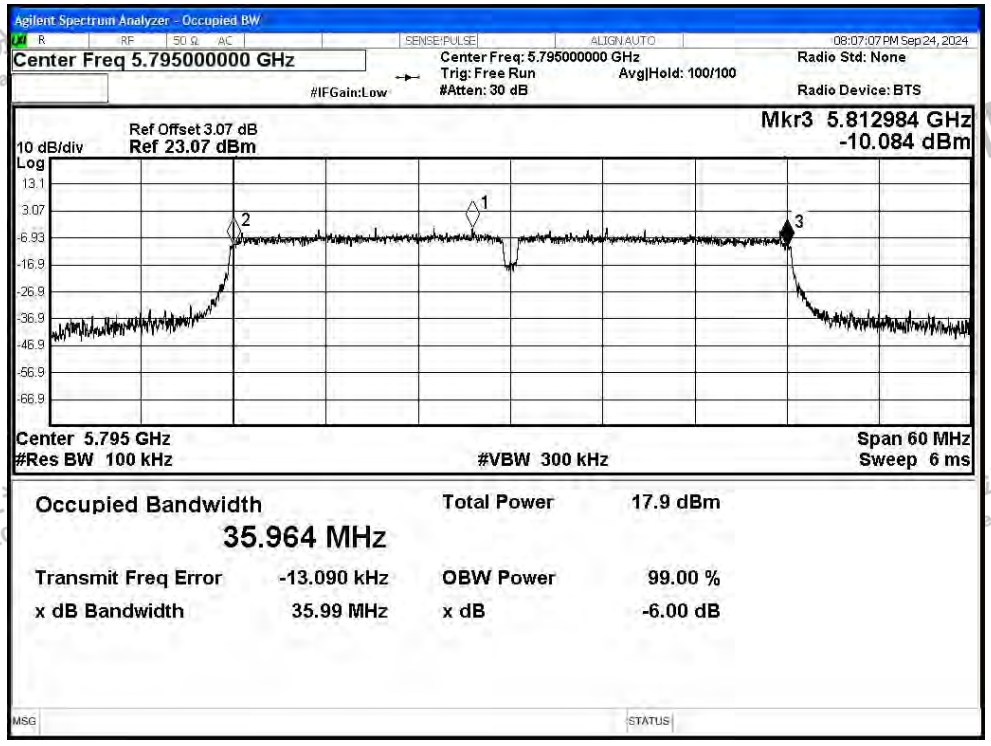
-6dB Bandwidth NVNT n20 5825MHz Ant0



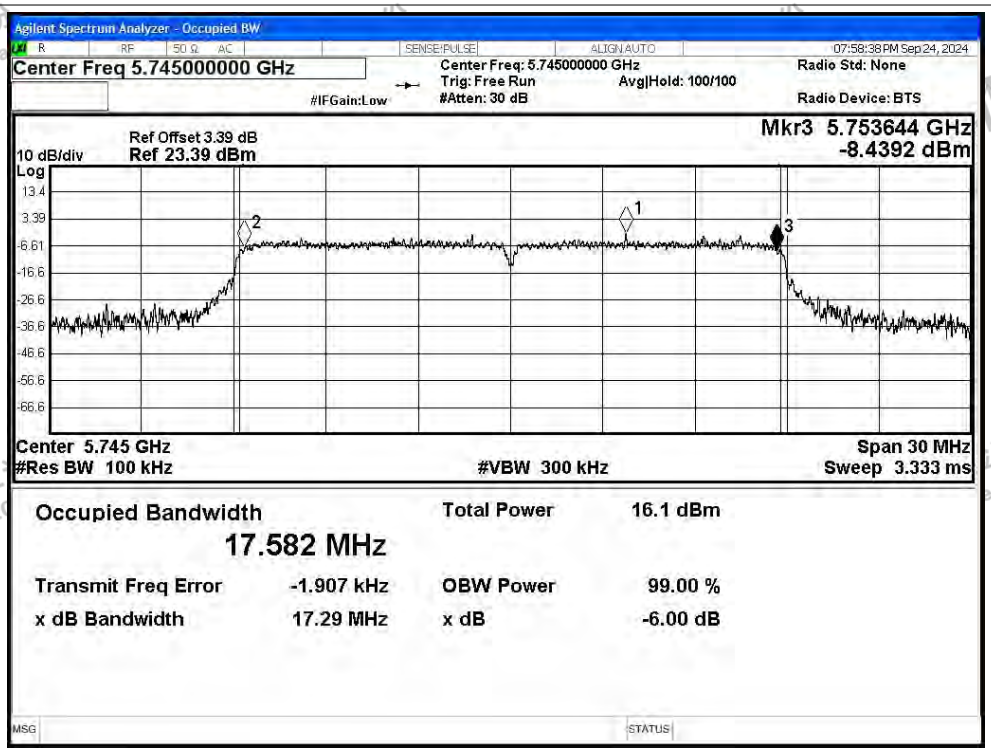
-6dB Bandwidth NVNT n40 5755MHz Ant0



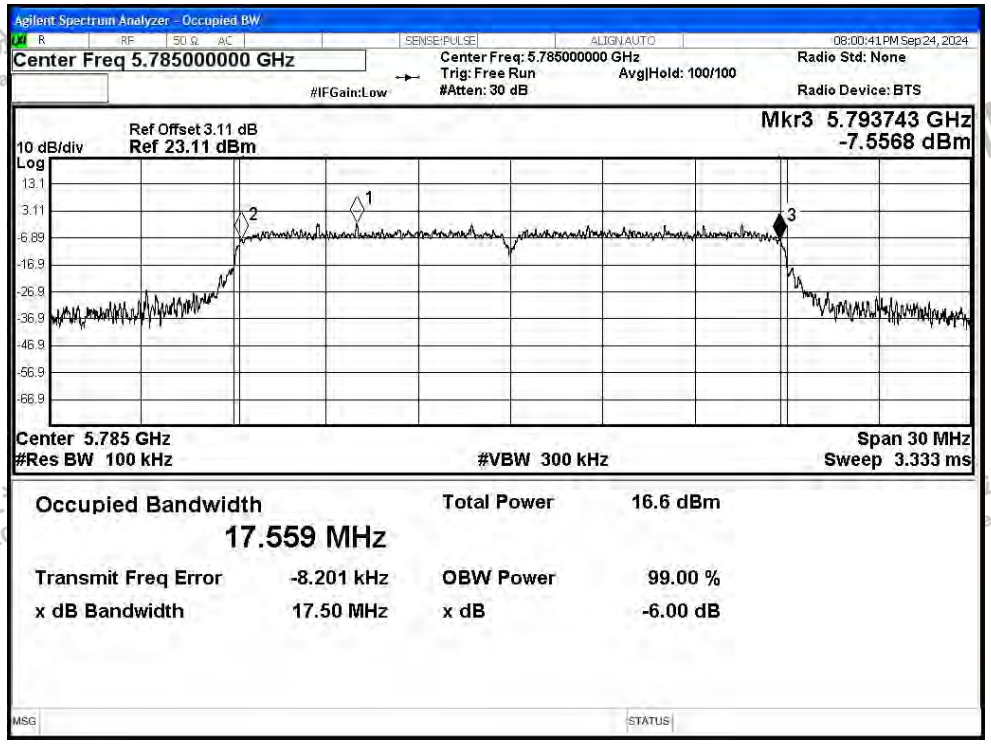
-6dB Bandwidth NVNT n40 5795MHz Ant0



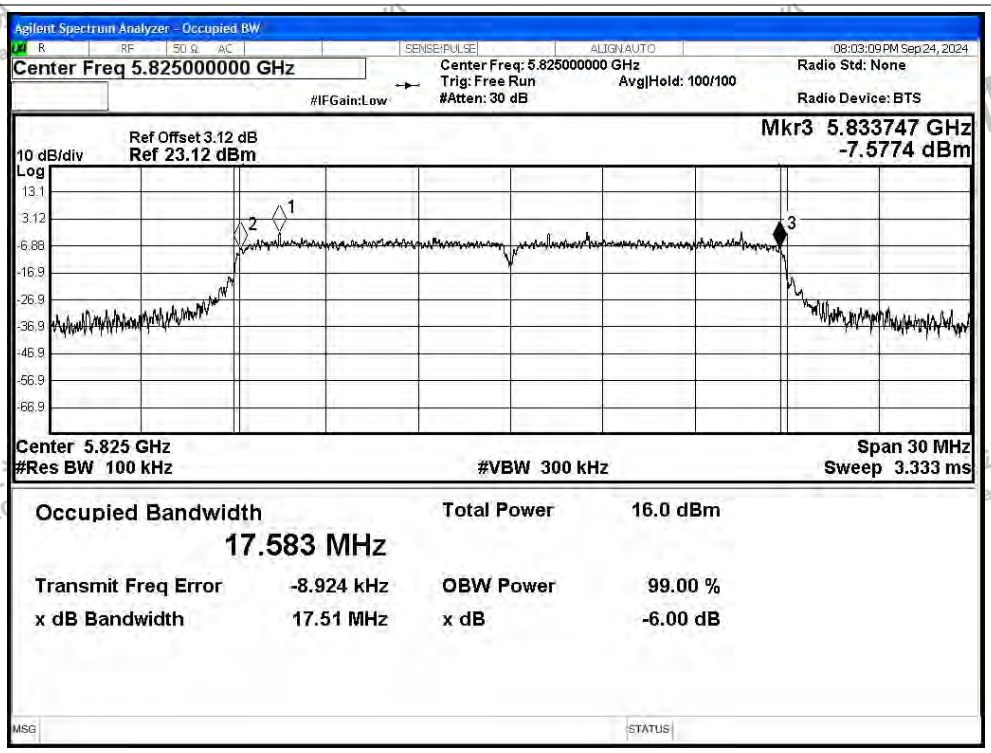
-6dB Bandwidth NVNT ac20 5745MHz Ant0



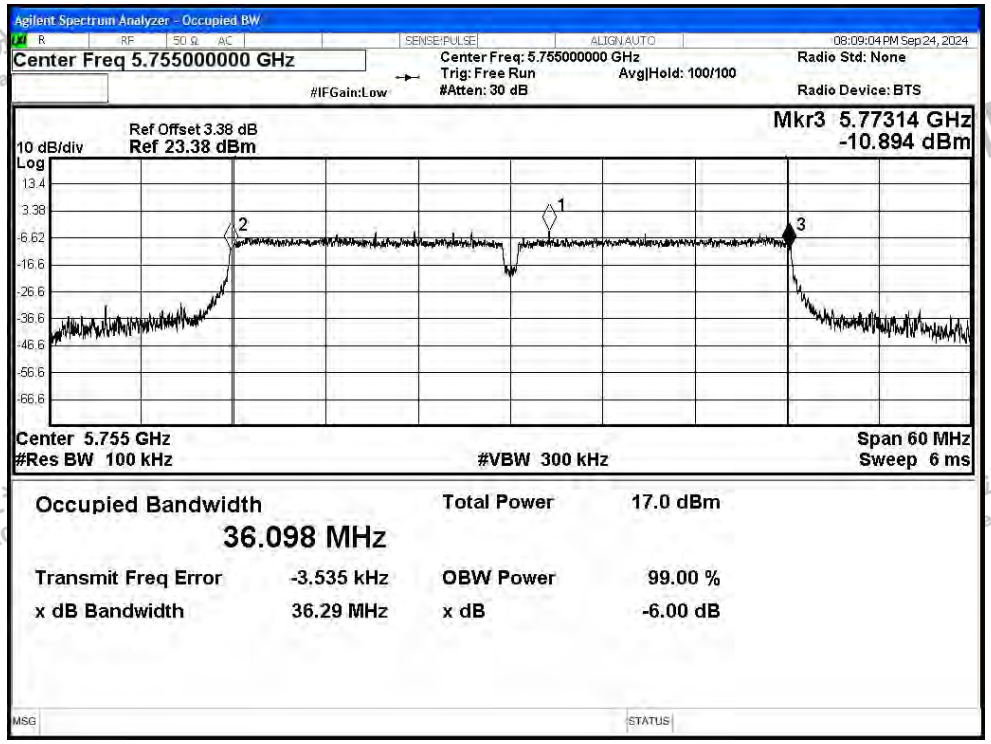
-6dB Bandwidth NVNT ac20 5785MHz Ant0



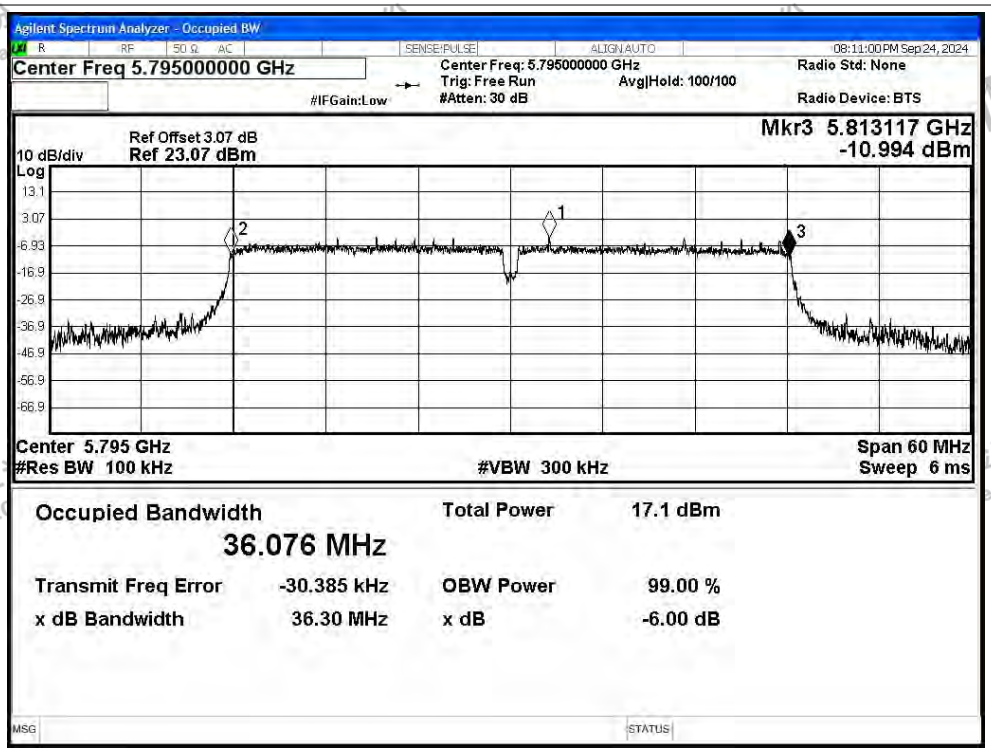
-6dB Bandwidth NVNT ac20 5825MHz Ant0



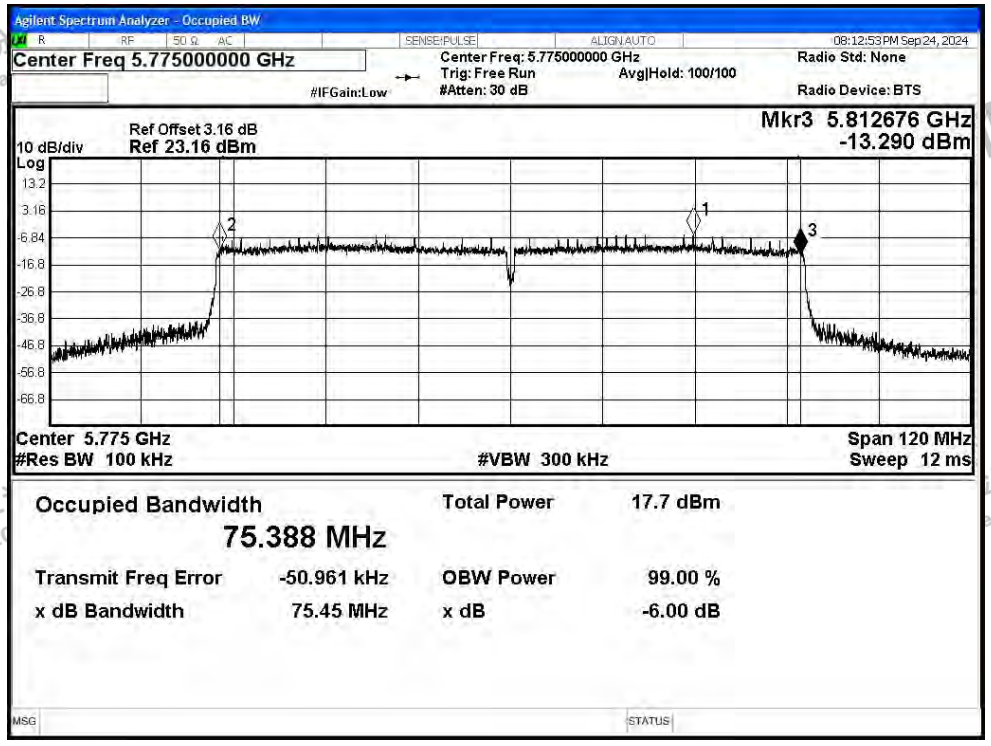
-6dB Bandwidth NVNT ac40 5755MHz Ant0



-6dB Bandwidth NVNT ac40 5795MHz Ant0



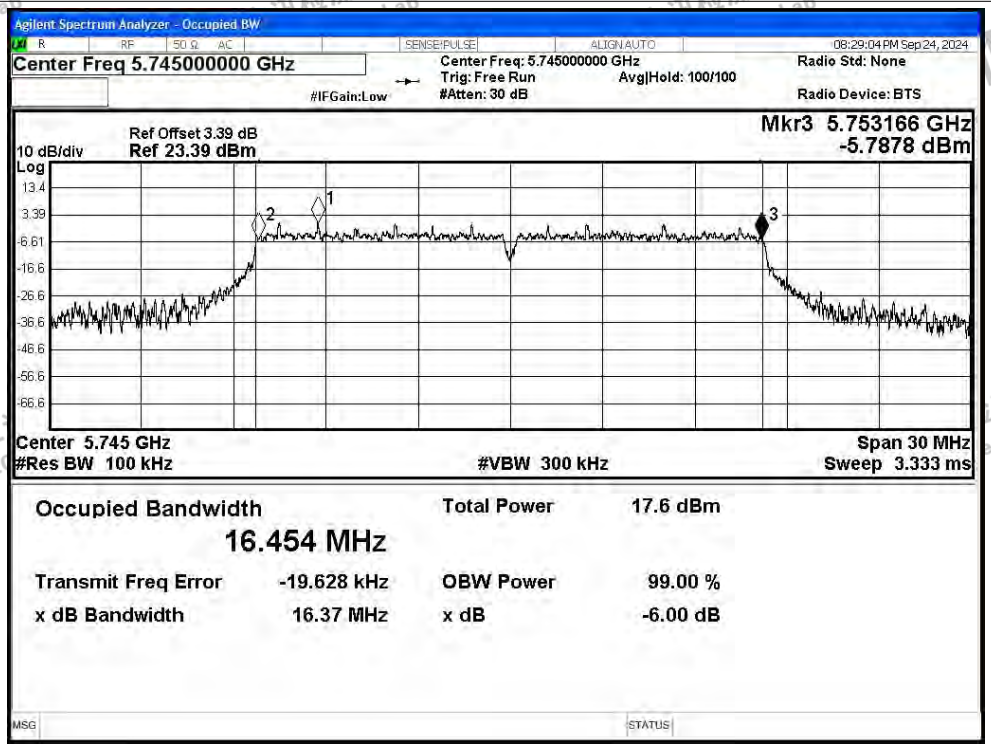
-6dB Bandwidth NVNT ac80 5775MHz Ant0



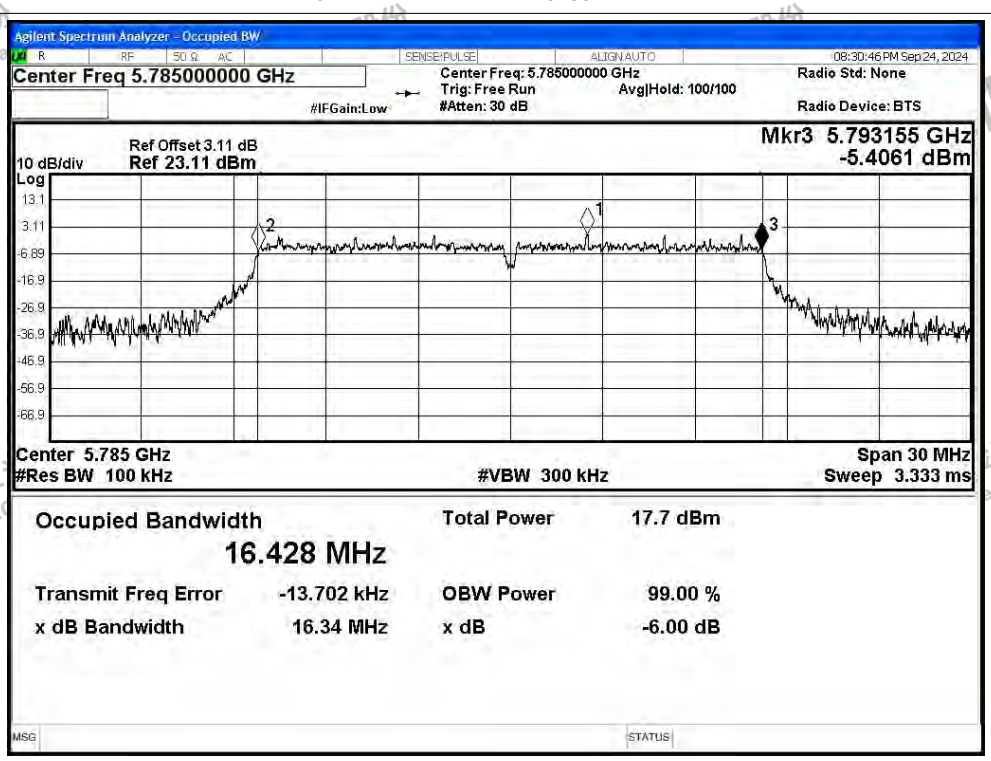
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.371	>=0.5	Pass
NVNT	a	5785	Ant1	16.337	>=0.5	Pass
NVNT	a	5825	Ant1	16.331	>=0.5	Pass
NVNT	n20	5745	Ant1	17.528	>=0.5	Pass
NVNT	n20	5785	Ant1	17.497	>=0.5	Pass
NVNT	n20	5825	Ant1	17.476	>=0.5	Pass
NVNT	n40	5755	Ant1	36.401	>=0.5	Pass
NVNT	n40	5795	Ant1	36.277	>=0.5	Pass
NVNT	ac20	5745	Ant1	17.301	>=0.5	Pass
NVNT	ac20	5785	Ant1	17.279	>=0.5	Pass
NVNT	ac20	5825	Ant1	17.435	>=0.5	Pass
NVNT	ac40	5755	Ant1	36.4	>=0.5	Pass
NVNT	ac40	5795	Ant1	36.135	>=0.5	Pass
NVNT	ac80	5775	Ant1	75.867	>=0.5	Pass

Test Graphs

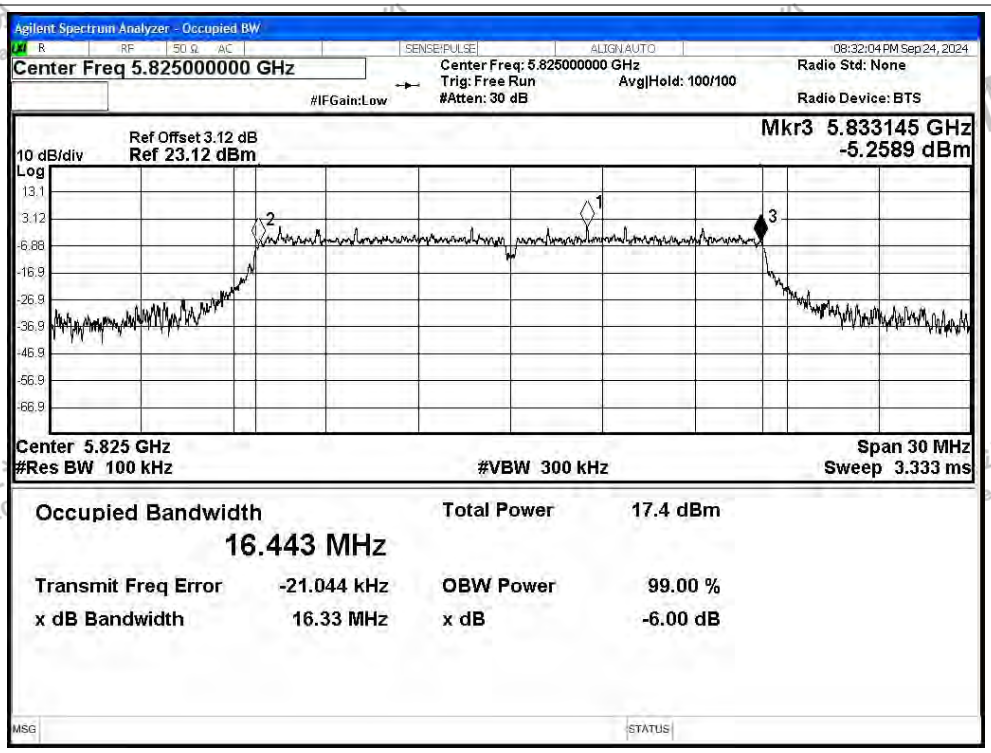
-6dB Bandwidth NVNT a 5745MHz Ant1



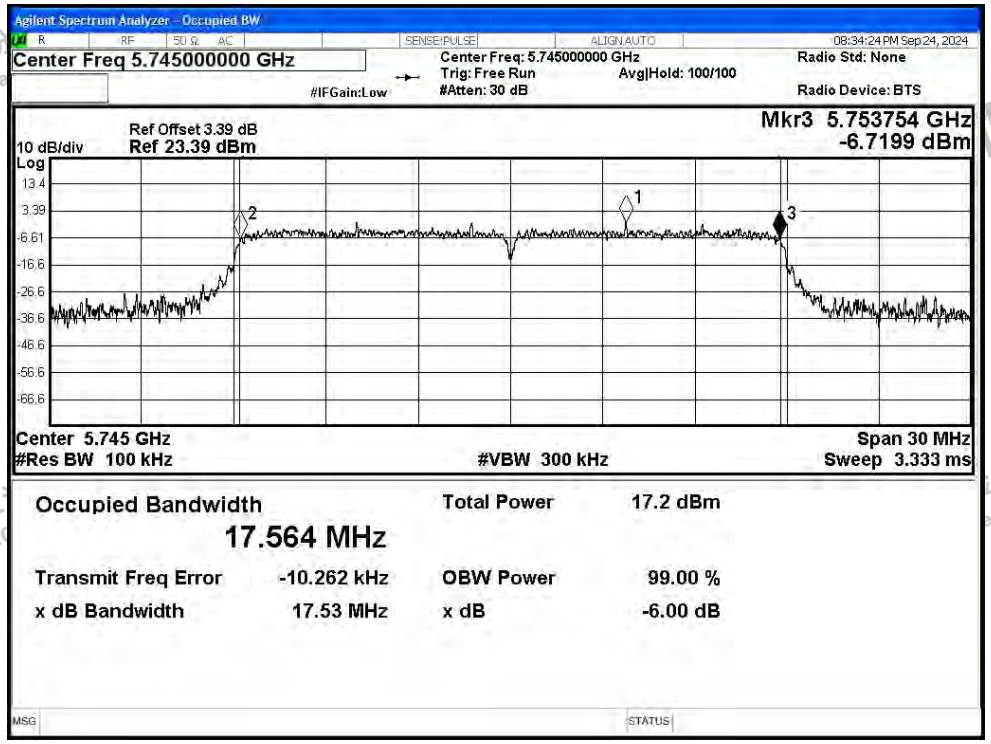
-6dB Bandwidth NVNT a 5785MHz Ant1



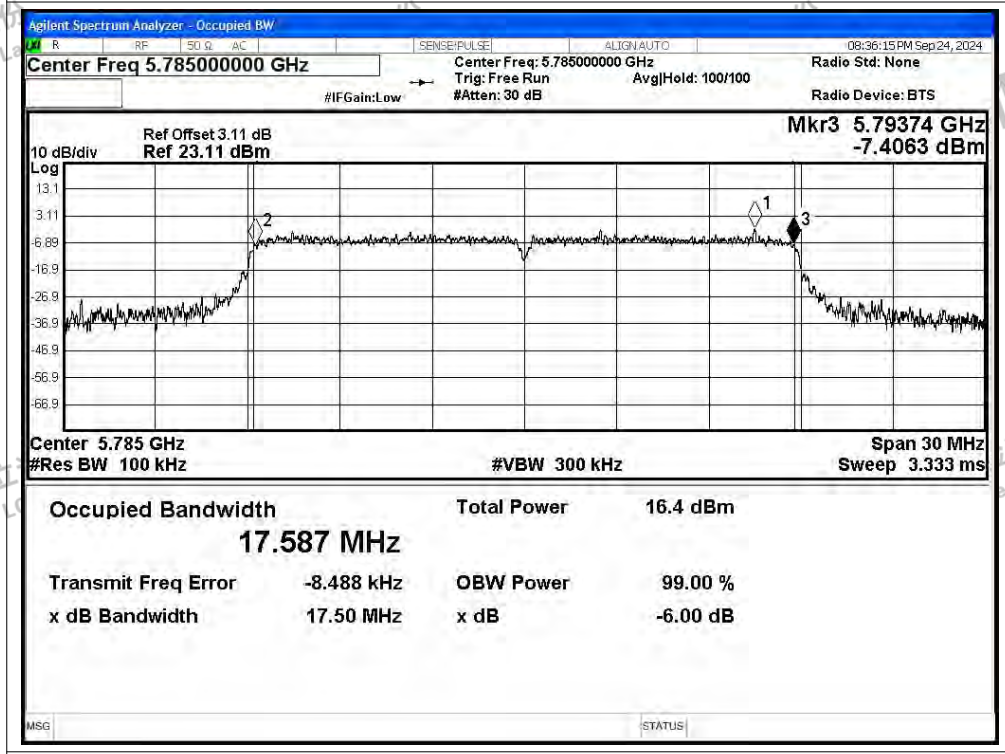
-6dB Bandwidth NVNT a 5825MHz Ant1



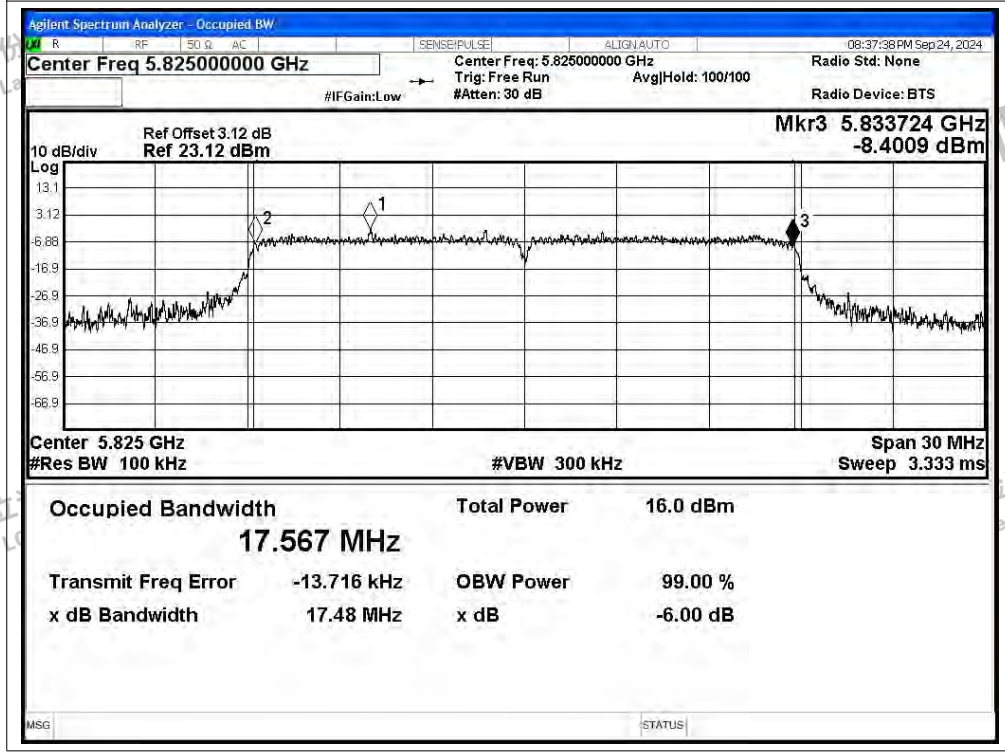
-6dB Bandwidth NVNT n20 5745MHz Ant1



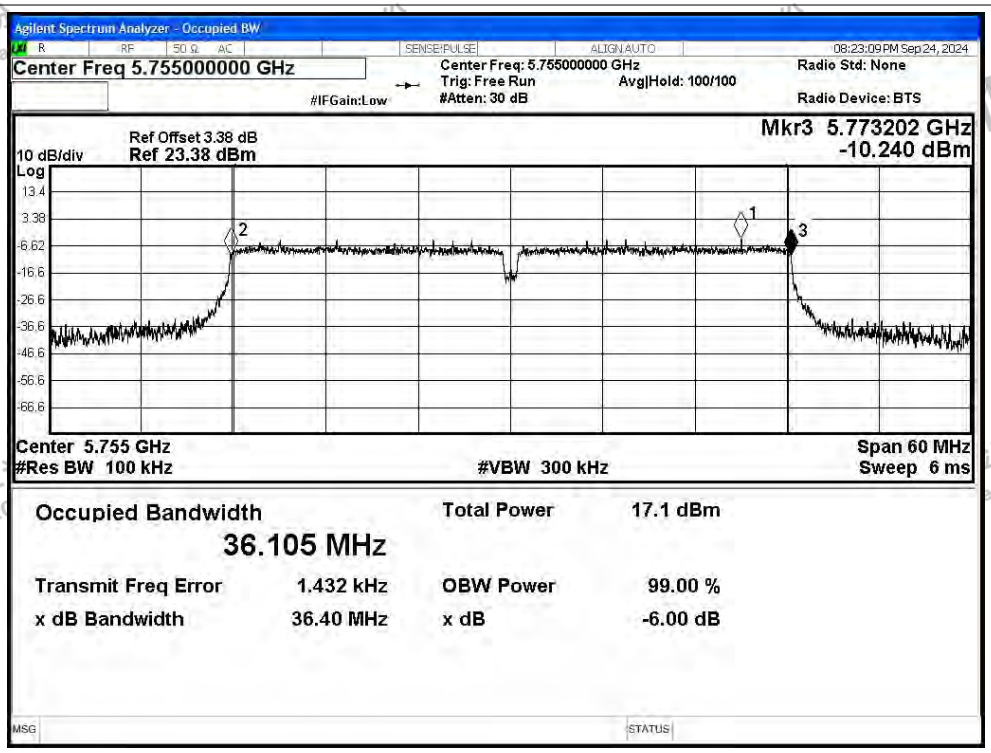
-6dB Bandwidth NVNT n20 5785MHz Ant1



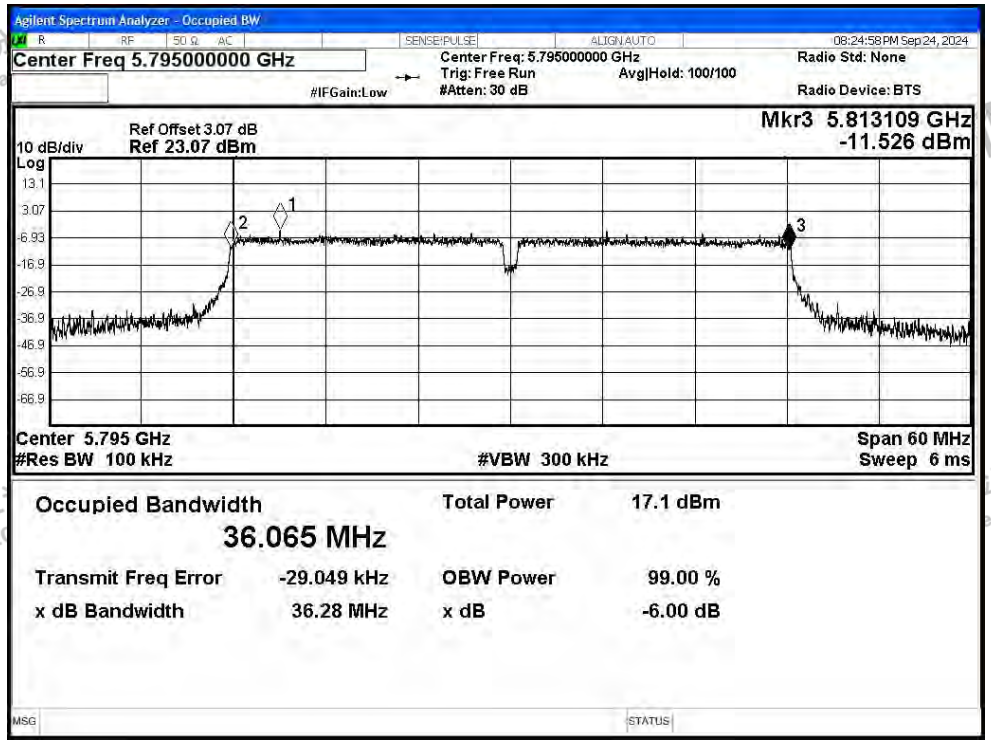
-6dB Bandwidth NVNT n20 5825MHz Ant1



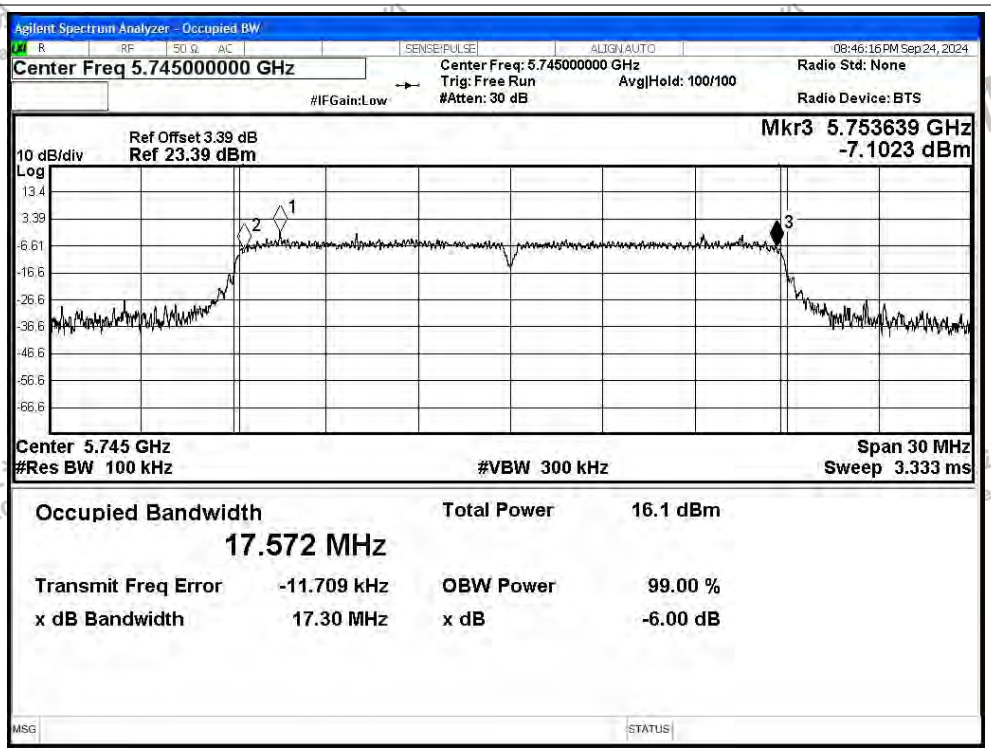
-6dB Bandwidth NVNT n40 5755MHz Ant1



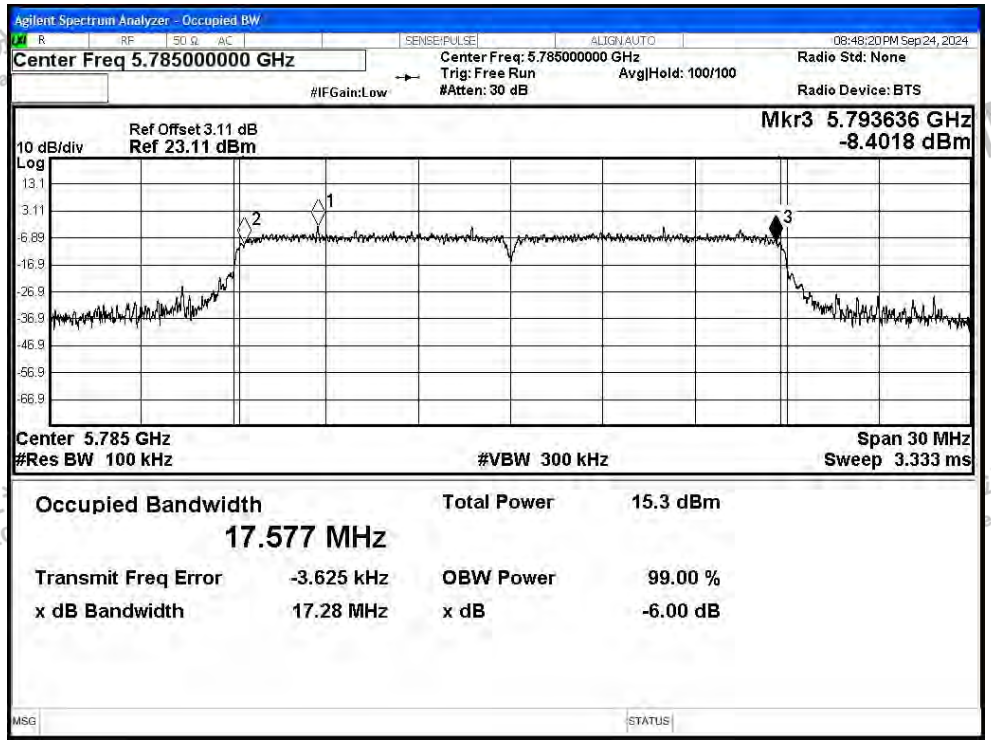
-6dB Bandwidth NVNT n40 5795MHz Ant1



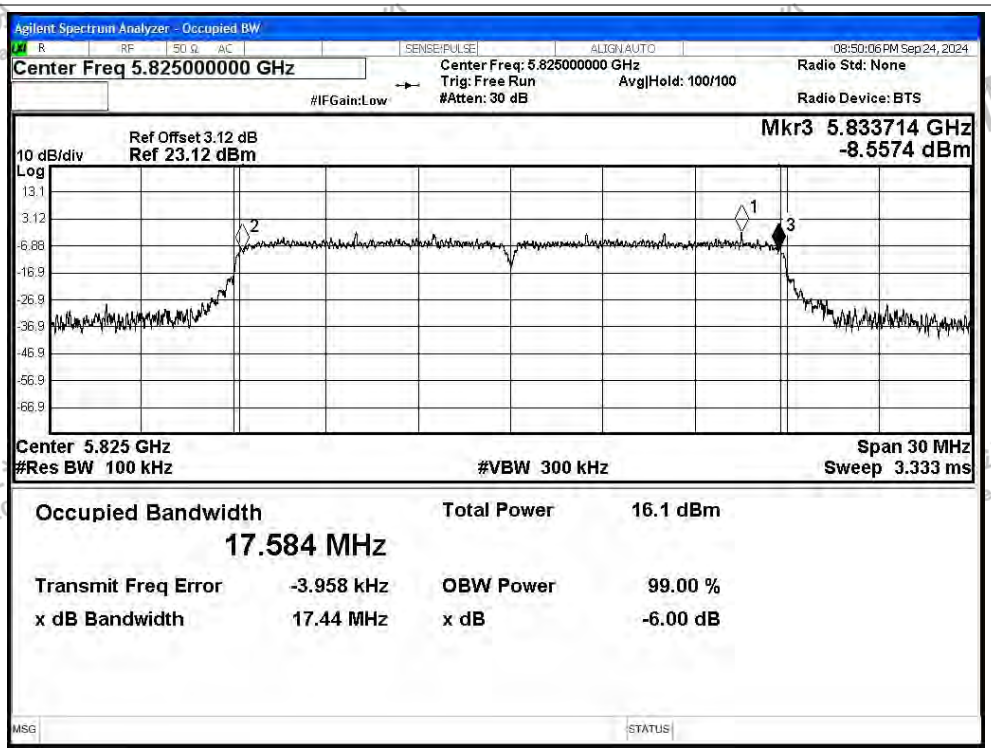
-6dB Bandwidth NVNT ac20 5745MHz Ant1



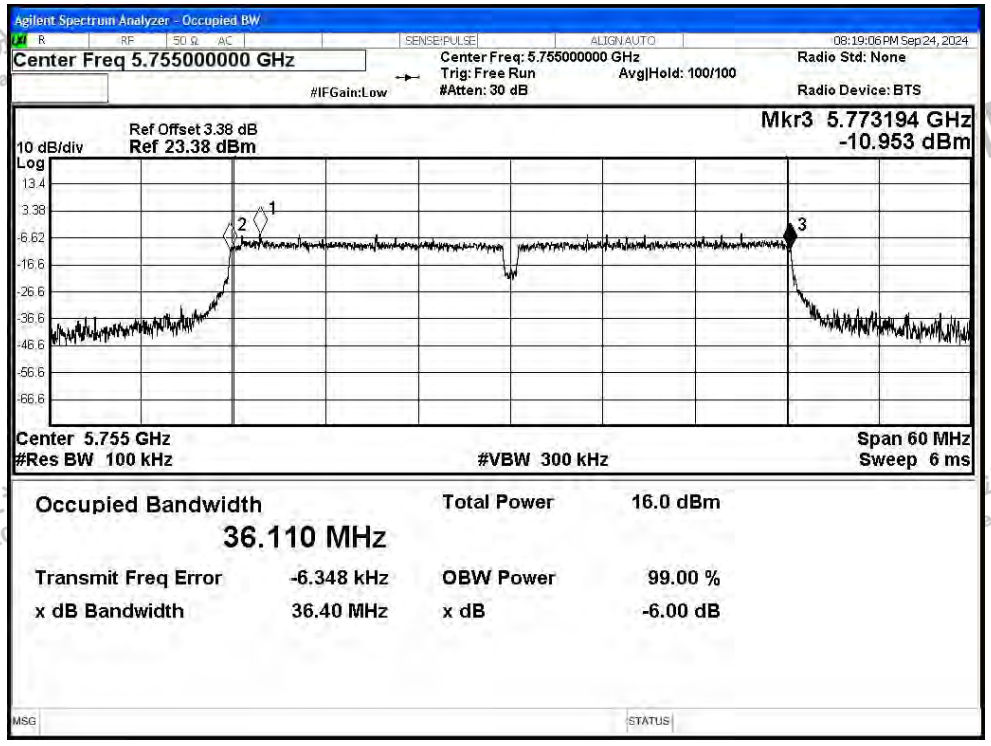
-6dB Bandwidth NVNT ac20 5785MHz Ant1



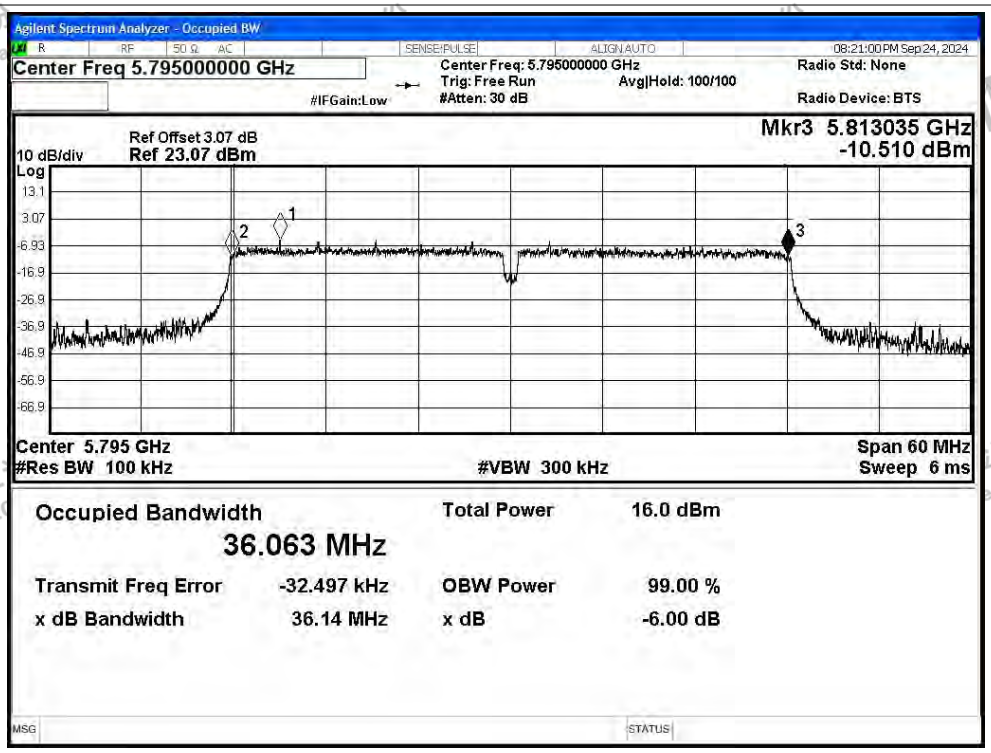
-6dB Bandwidth NVNT ac20 5825MHz Ant1



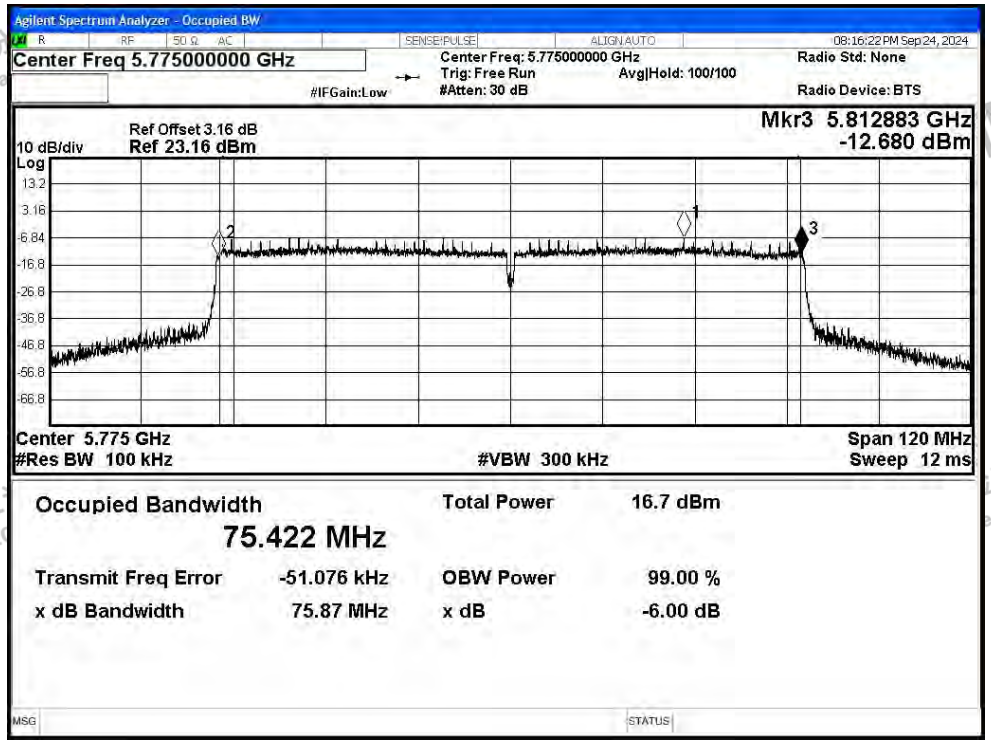
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-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	12.68	0.24	12.92	30	Pass
NVNT	a	5785	Ant0	12.75	0.24	12.99	30	Pass
NVNT	a	5825	Ant0	12.24	0.24	12.48	30	Pass
NVNT	n20	5745	Ant0	11.14	0.12	11.26	30	Pass
NVNT	n20	5785	Ant0	11.29	0.12	11.41	30	Pass
NVNT	n20	5825	Ant0	11.75	0.12	11.87	30	Pass
NVNT	n40	5755	Ant0	11.65	0.12	11.77	30	Pass
NVNT	n40	5795	Ant0	11.61	0.12	11.73	30	Pass
NVNT	ac20	5745	Ant0	9.92	0.12	10.04	30	Pass
NVNT	ac20	5785	Ant0	10.34	0.12	10.46	30	Pass
NVNT	ac20	5825	Ant0	9.87	0.12	9.99	30	Pass
NVNT	ac40	5755	Ant0	10.66	0.12	10.78	30	Pass
NVNT	ac40	5795	Ant0	10.67	0.12	10.79	30	Pass
NVNT	ac80	5775	Ant0	10.73	0.25	10.98	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.55	0.24	11.79	30	Pass
NVNT	a	5785	Ant1	11.78	0.24	12.02	30	Pass
NVNT	a	5825	Ant1	11.32	0.24	11.56	30	Pass
NVNT	n20	5745	Ant1	10.97	0.12	11.09	30	Pass
NVNT	n20	5785	Ant1	10.3	0.12	10.42	30	Pass
NVNT	n20	5825	Ant1	9.85	0.12	9.97	30	Pass
NVNT	n40	5755	Ant1	10.72	0.12	10.84	30	Pass
NVNT	n40	5795	Ant1	10.74	0.12	10.86	30	Pass
NVNT	ac20	5745	Ant1	9.94	0.12	10.06	30	Pass
NVNT	ac20	5785	Ant1	9.14	0.12	9.26	30	Pass
NVNT	ac20	5825	Ant1	9.9	0.12	10.02	30	Pass
NVNT	ac40	5755	Ant1	9.62	0.12	9.74	30	Pass
NVNT	ac40	5795	Ant1	9.66	0.12	9.78	30	Pass
NVNT	ac80	5775	Ant1	9.68	0.25	9.93	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	11.26	11.09	14.19	30	Pass
NVNT	n20	5785	11.41	10.42	13.95	30	Pass
NVNT	n20	5825	11.87	9.97	14.03	30	Pass
NVNT	n40	5755	11.77	10.84	14.34	30	Pass
NVNT	n40	5795	11.73	10.86	14.33	30	Pass
NVNT	ac20	5745	10.04	10.06	13.06	30	Pass
NVNT	ac20	5785	10.46	9.26	12.91	30	Pass
NVNT	ac20	5825	9.99	10.02	13.02	30	Pass
NVNT	ac40	5755	10.78	9.74	13.30	30	Pass
NVNT	ac40	5795	10.79	9.78	13.32	30	Pass
NVNT	ac80	5775	10.98	9.93	13.50	30	Pass

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	-1.12	0.24	-0.88	30	Pass
NVNT	a	5785	Ant0	-0.66	0.24	-0.42	30	Pass
NVNT	a	5825	Ant0	-1.39	0.24	-1.15	30	Pass
NVNT	n20	5745	Ant0	-1.97	0.12	-1.85	30	Pass
NVNT	n20	5785	Ant0	-2.54	0.12	-2.42	30	Pass
NVNT	n20	5825	Ant0	-2.05	0.12	-1.93	30	Pass
NVNT	n40	5755	Ant0	-5.11	0.12	-4.99	30	Pass
NVNT	n40	5795	Ant0	-5.02	0.12	-4.90	30	Pass
NVNT	ac20	5745	Ant0	-4.03	0.12	-3.91	30	Pass
NVNT	ac20	5785	Ant0	-3.36	0.12	-3.24	30	Pass
NVNT	ac20	5825	Ant0	-3.97	0.12	-3.85	30	Pass
NVNT	ac40	5755	Ant0	-6.08	0.12	-5.96	30	Pass
NVNT	ac40	5795	Ant0	-6.09	0.12	-5.97	30	Pass
NVNT	ac80	5775	Ant0	-9.01	0.25	-8.76	30	Pass

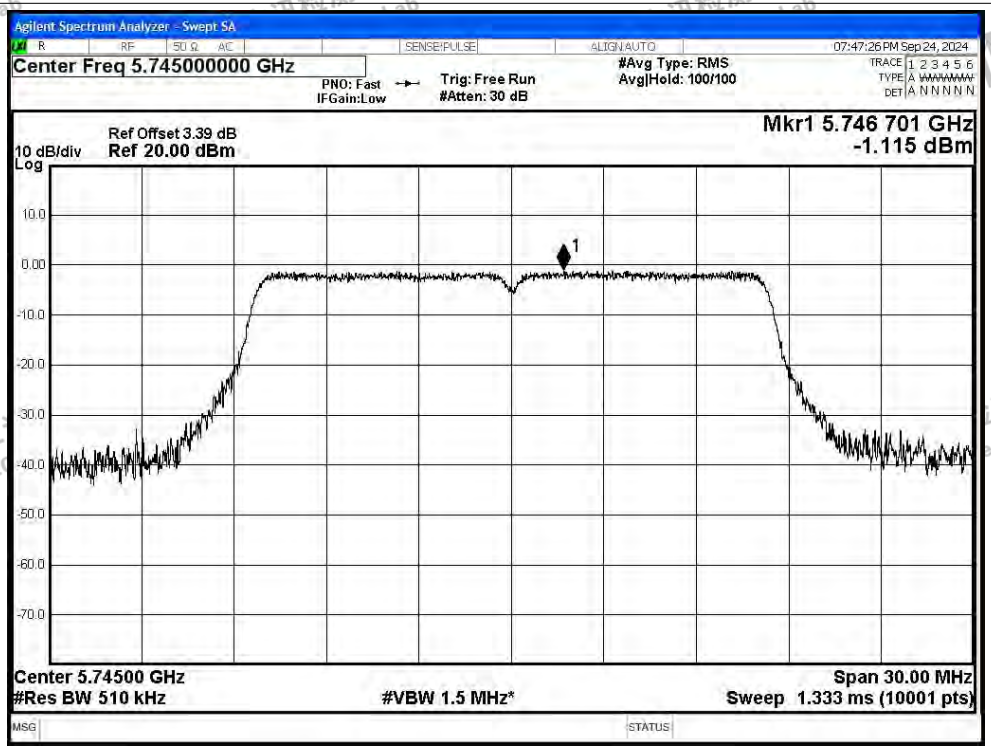
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-2	0.24	-1.76	30	Pass
NVNT	a	5785	Ant1	-1.93	0.24	-1.69	30	Pass
NVNT	a	5825	Ant1	-2.25	0.24	-2.01	30	Pass
NVNT	n20	5745	Ant1	-2.58	0.12	-2.46	30	Pass
NVNT	n20	5785	Ant1	-3.62	0.12	-3.5	30	Pass
NVNT	n20	5825	Ant1	-4.05	0.12	-3.93	30	Pass
NVNT	n40	5755	Ant1	-6.11	0.12	-5.99	30	Pass
NVNT	n40	5795	Ant1	-5.99	0.12	-5.87	30	Pass
NVNT	ac20	5745	Ant1	-3.77	0.12	-3.65	30	Pass
NVNT	ac20	5785	Ant1	-4.82	0.12	-4.7	30	Pass
NVNT	ac20	5825	Ant1	-3.82	0.12	-3.7	30	Pass
NVNT	ac40	5755	Ant1	-7.18	0.12	-7.06	30	Pass
NVNT	ac40	5795	Ant1	-7.17	0.12	-7.05	30	Pass
NVNT	ac80	5775	Ant1	-9.82	0.25	-9.57	30	Pass

MIMO

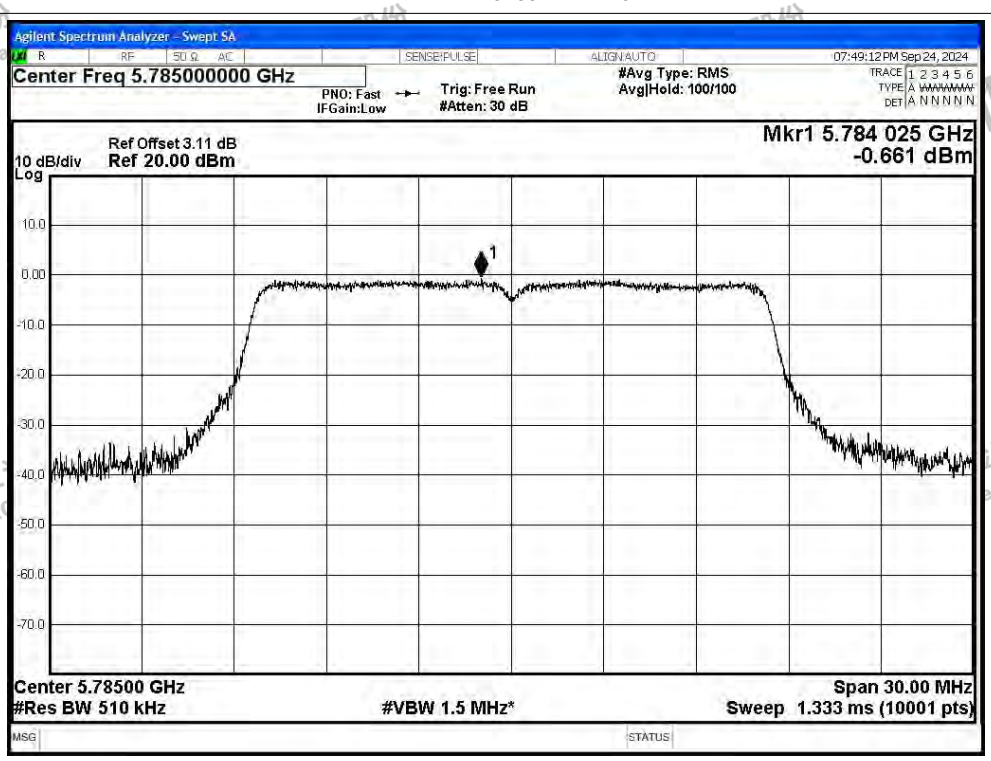
Condition	Mode	Frequency (MHz)	Total PSD (dBm/510KHz)			Limit (dBm/510KHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	-1.85	-2.46	0.87	30	Pass
NVNT	n20	5785	-2.42	-3.5	0.08	30	Pass
NVNT	n20	5825	-1.93	-3.93	0.19	30	Pass
NVNT	n40	5755	-4.99	-5.99	-2.45	30	Pass
NVNT	n40	5795	-4.90	-5.87	-2.35	30	Pass
NVNT	ac20	5745	-3.91	-3.65	-0.77	30	Pass
NVNT	ac20	5785	-3.24	-4.7	-0.90	30	Pass
NVNT	ac20	5825	-3.85	-3.7	-0.76	30	Pass
NVNT	ac40	5755	-5.96	-7.06	-3.46	30	Pass
NVNT	ac40	5795	-5.97	-7.05	-3.47	30	Pass
NVNT	ac80	5775	-8.76	-9.57	-6.14	30	Pass

Test Graphs

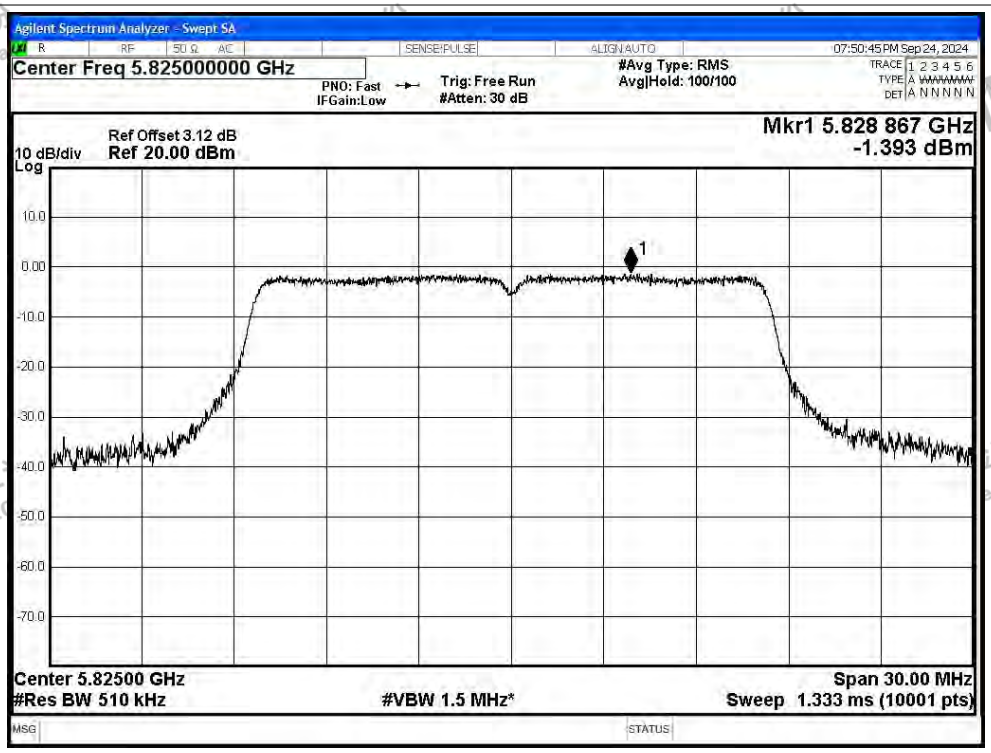
PSD NVNT a 5745MHz Ant0



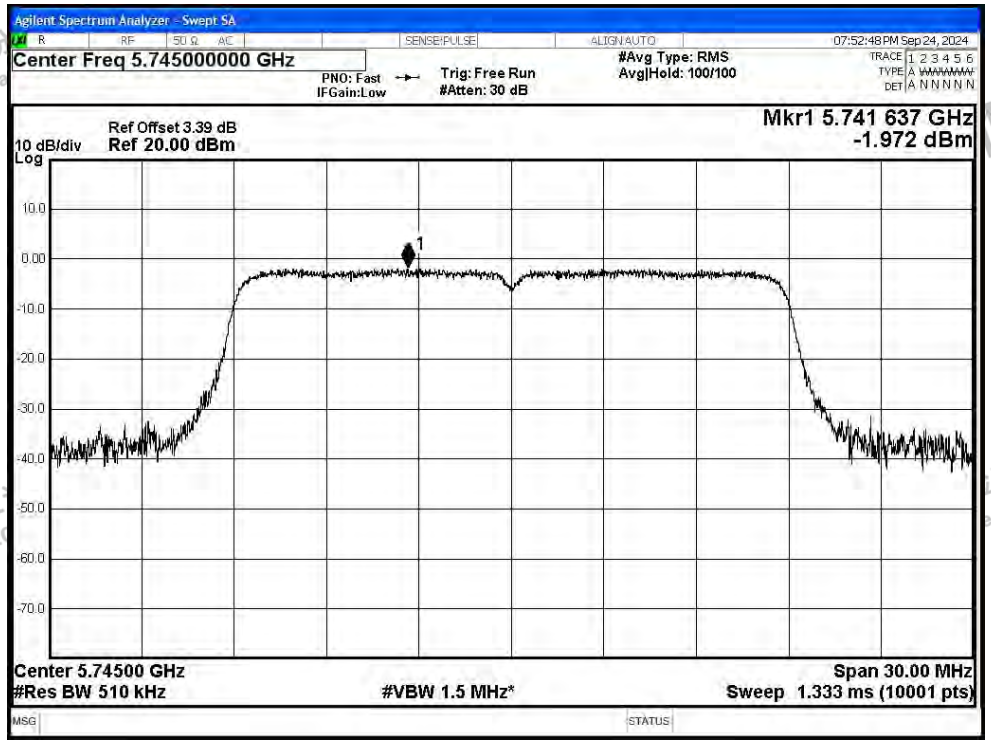
PSD NVNT a 5785MHz Ant0



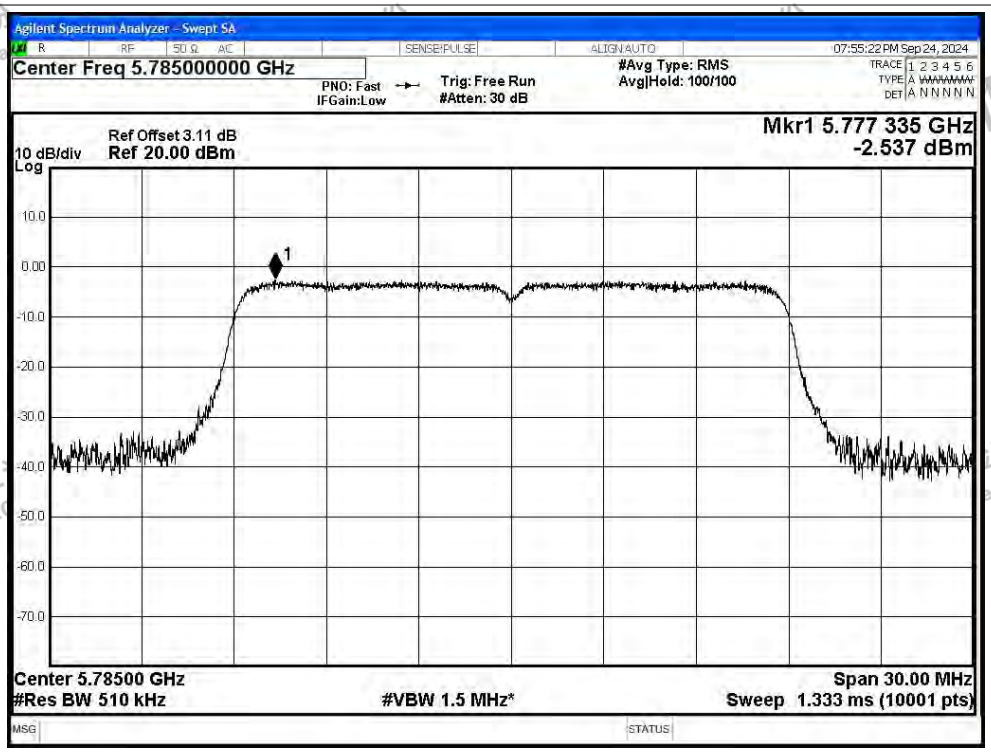
PSD NVNT a 5825MHz Ant0



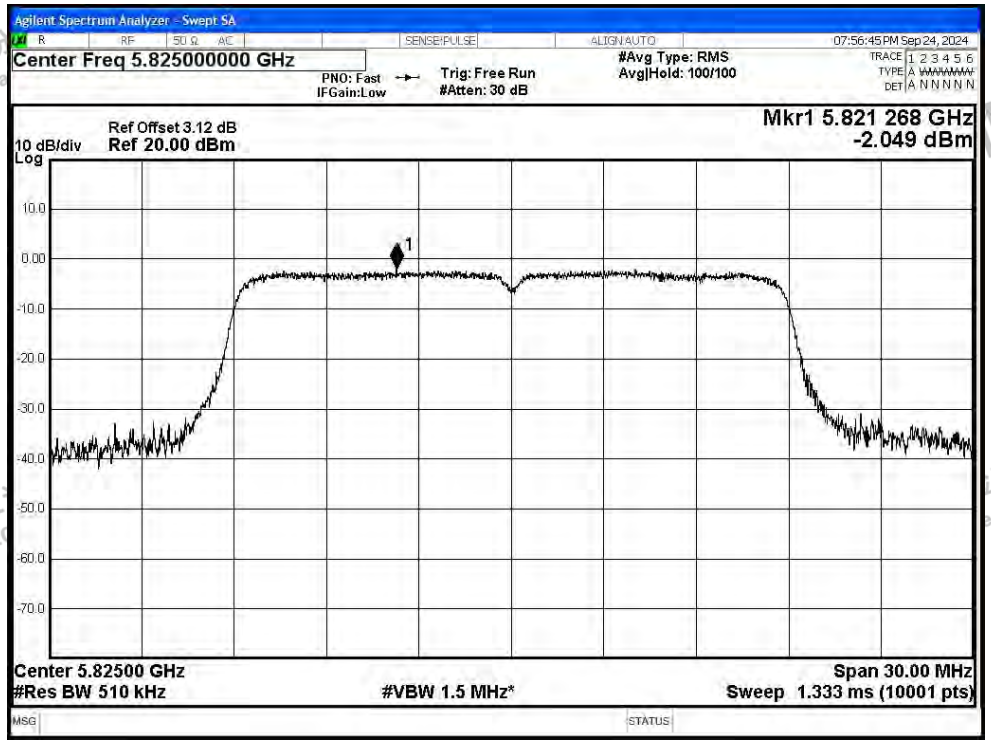
PSD NVNT n20 5745MHz Ant0



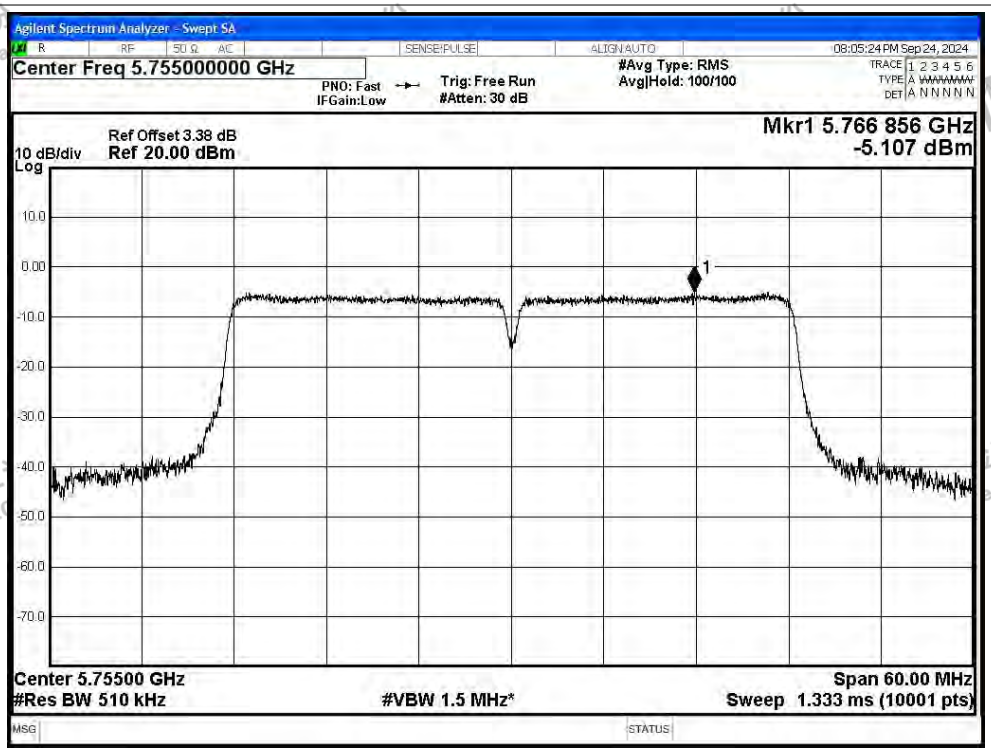
PSD NVNT n20 5785MHz Ant0



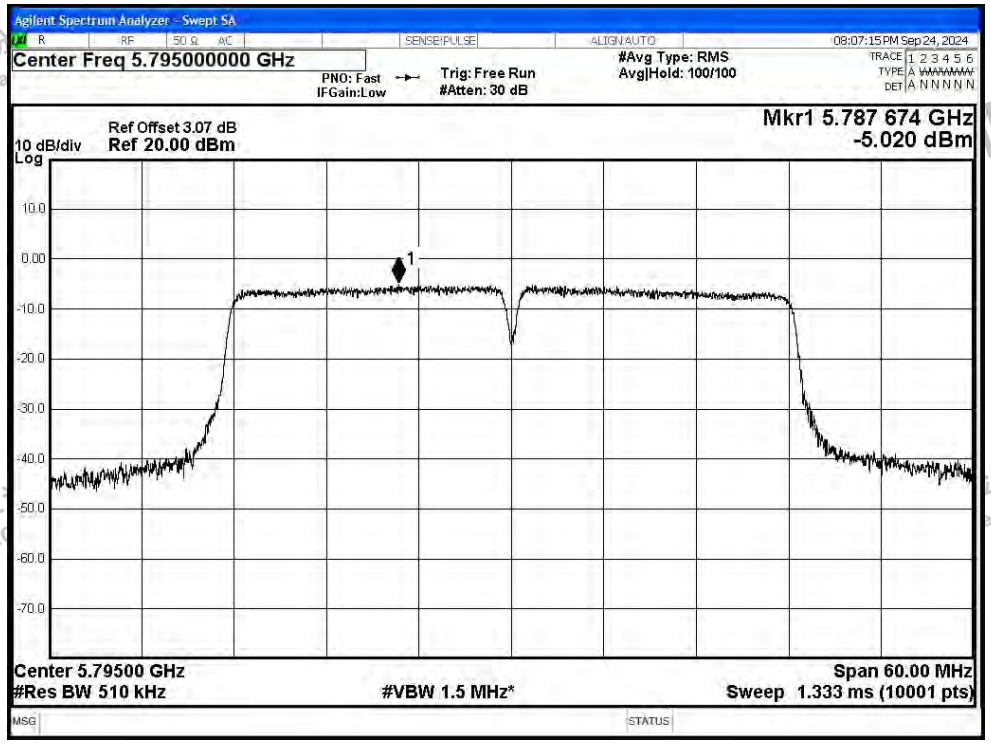
PSD NVNT n20 5825MHz Ant0



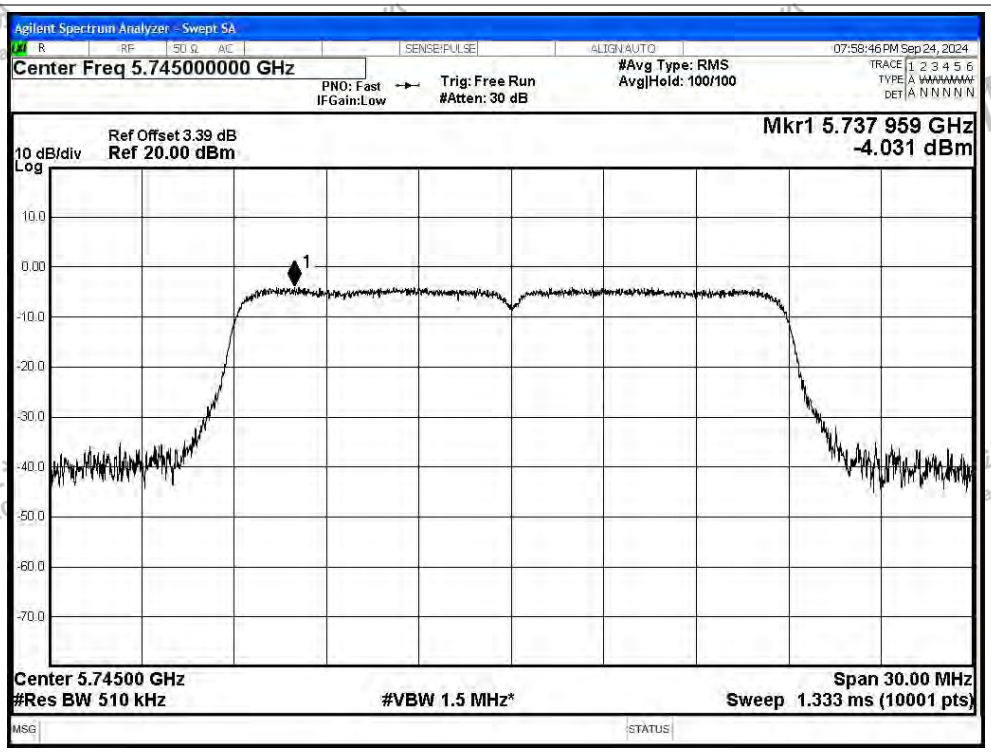
PSD NVNT n40 5755MHz Ant0



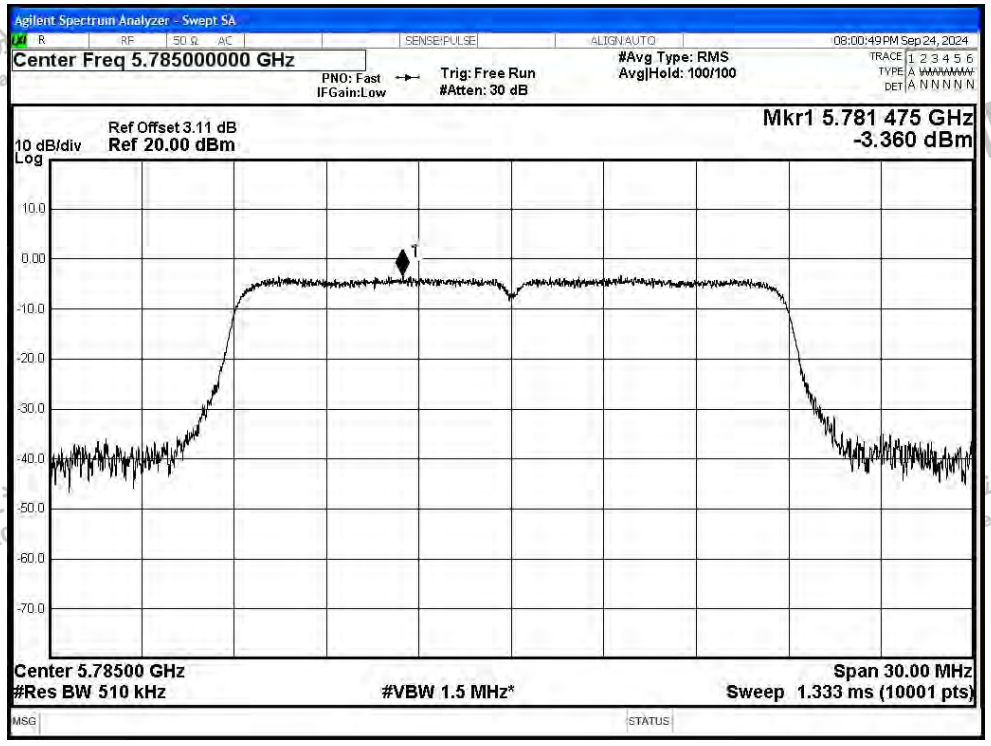
PSD NVNT n40 5795MHz Ant0



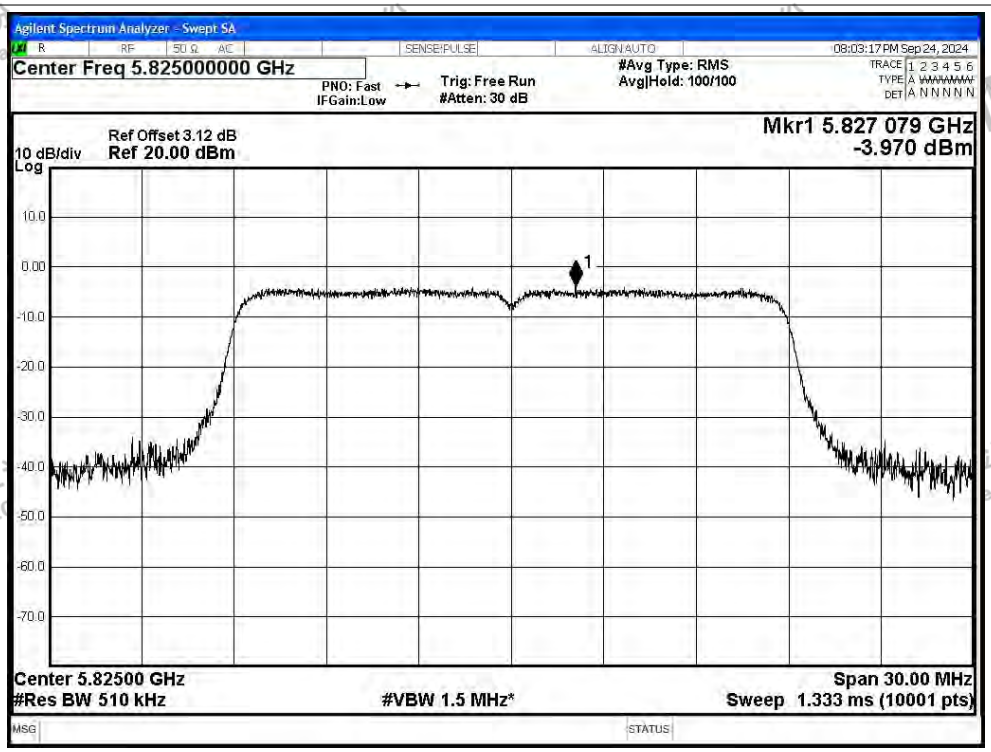
PSD NVNT ac20 5745MHz Ant0



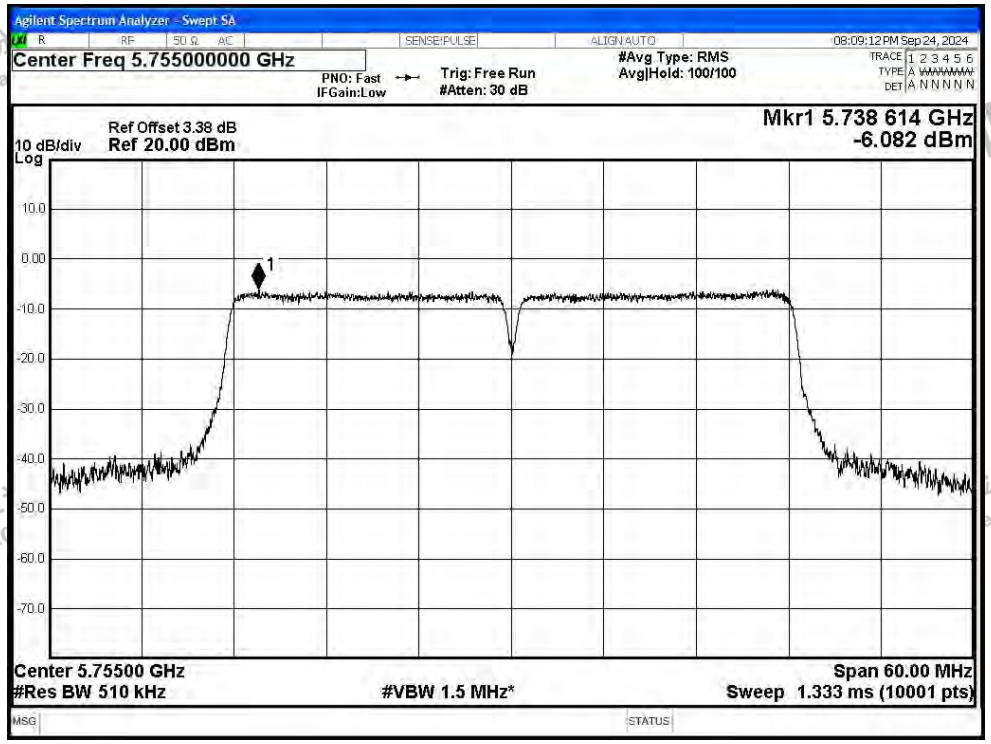
PSD NVNT ac20 5785MHz Ant0



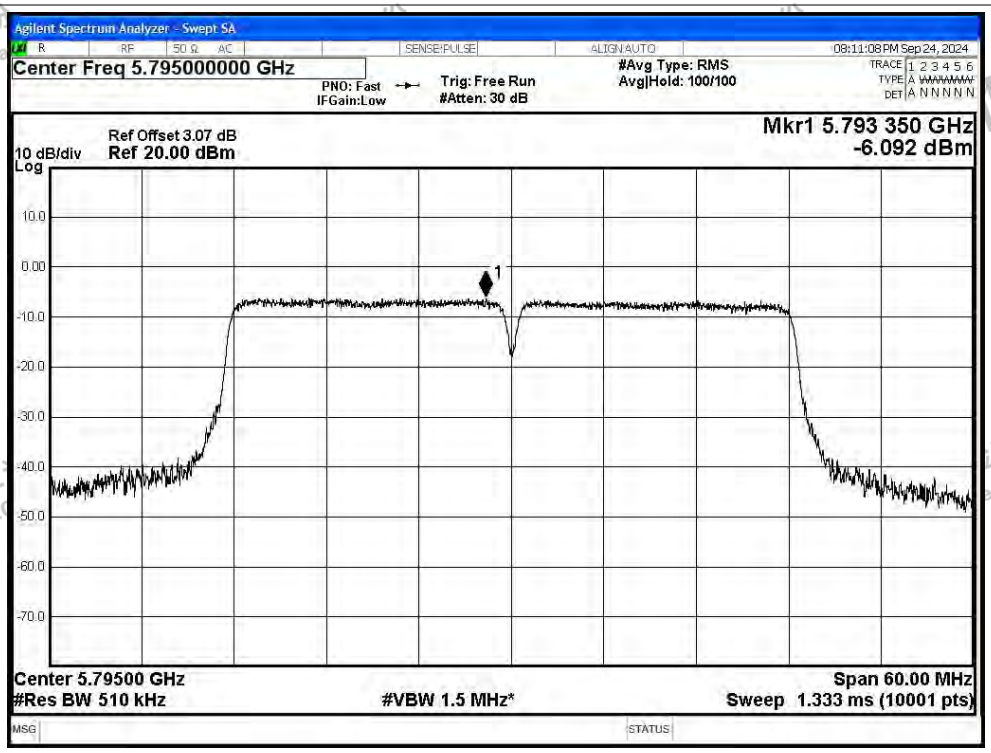
PSD NVNT ac20 5825MHz Ant0



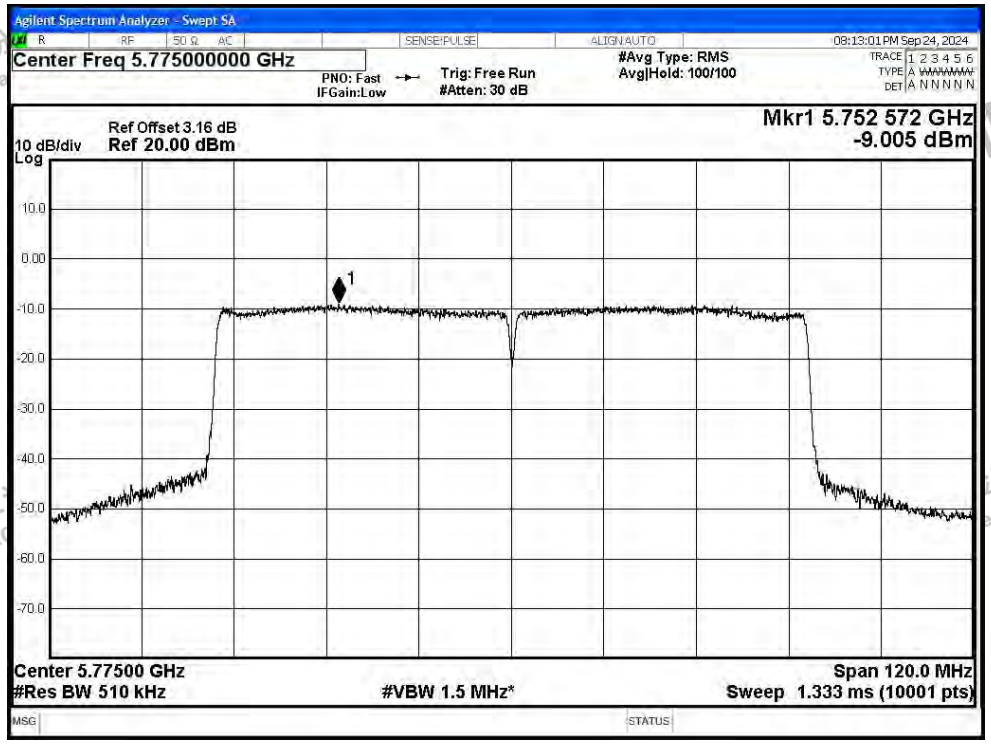
PSD NVNT ac40 5755MHz Ant0



PSD NVNT ac40 5795MHz Ant0

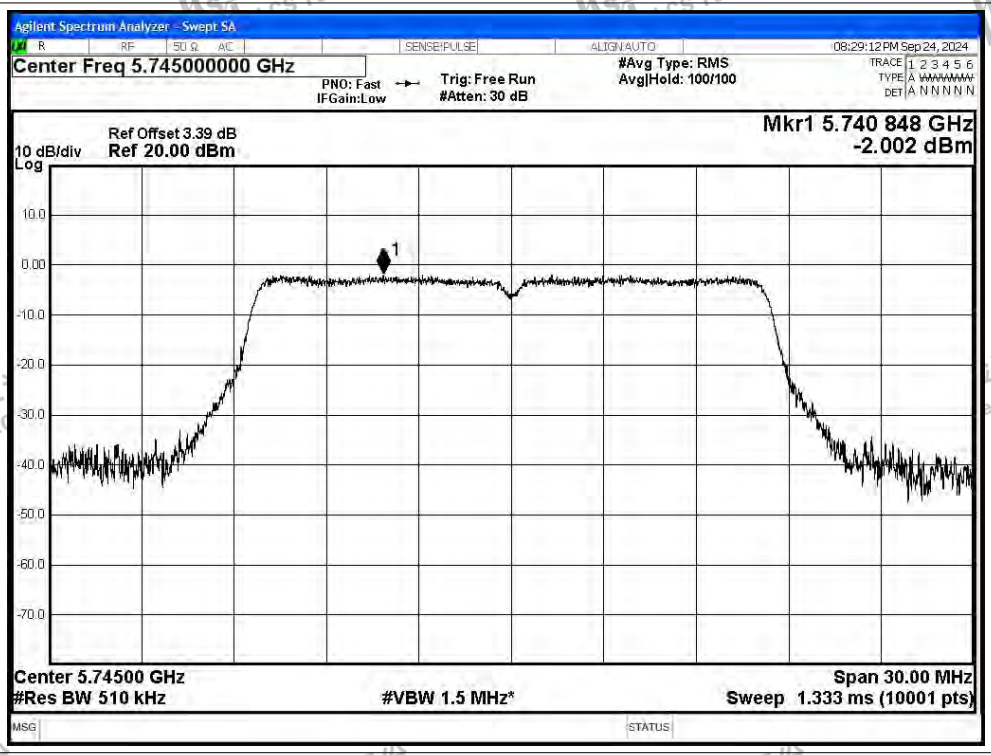


PSD NVNT ac80 5775MHz Ant0

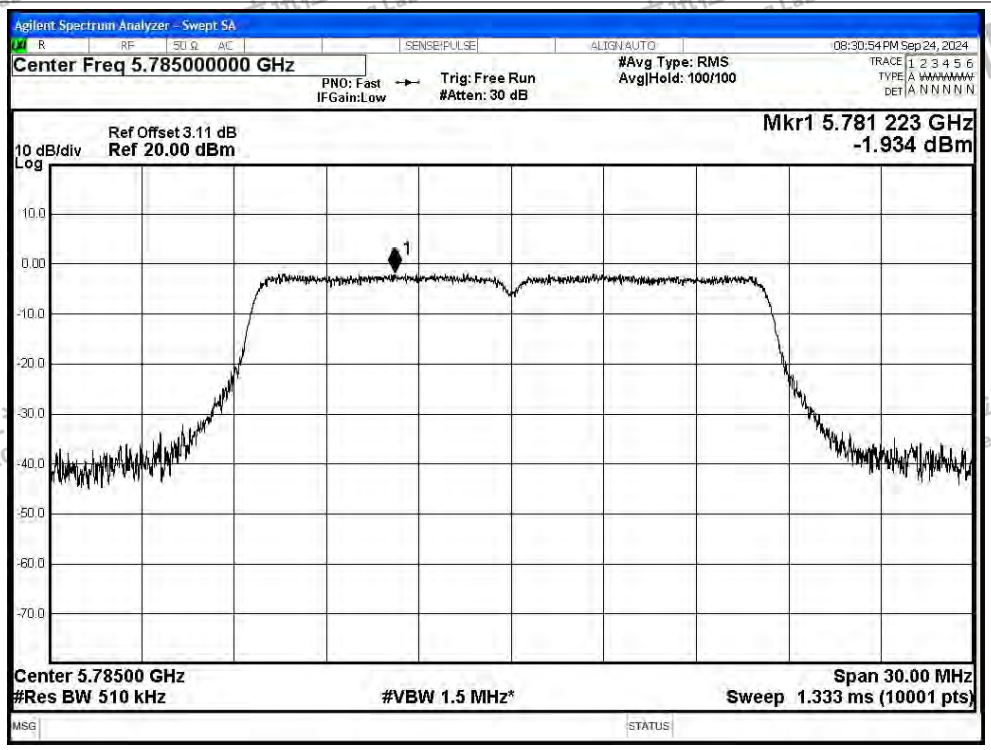


Test Graphs

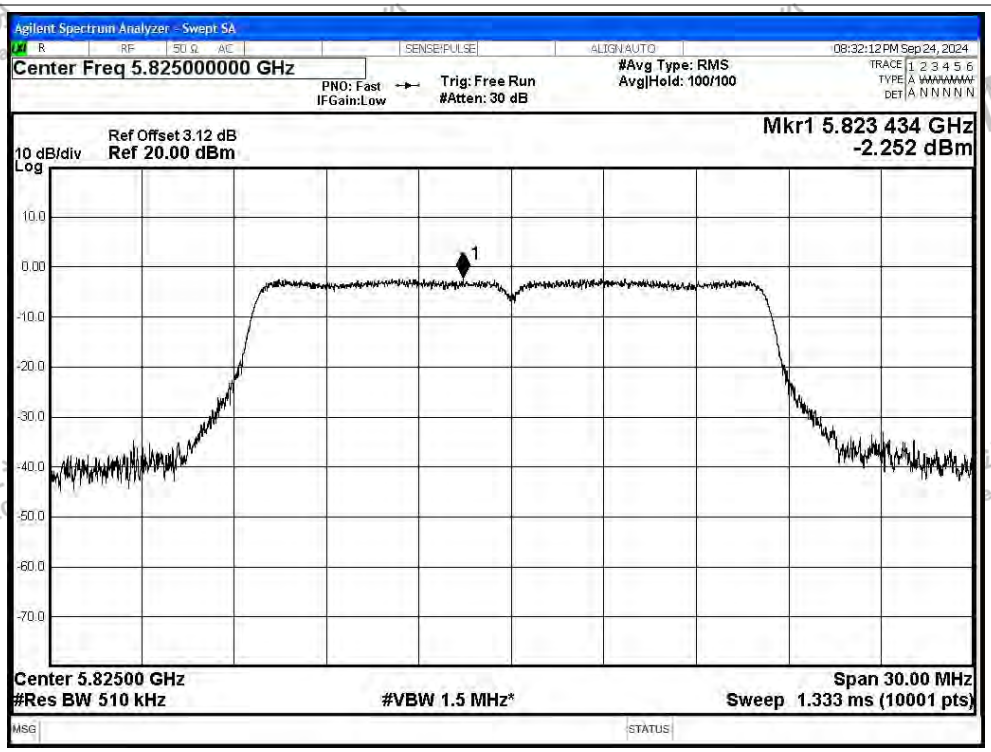
PSD NVNT a 5745MHz Ant1



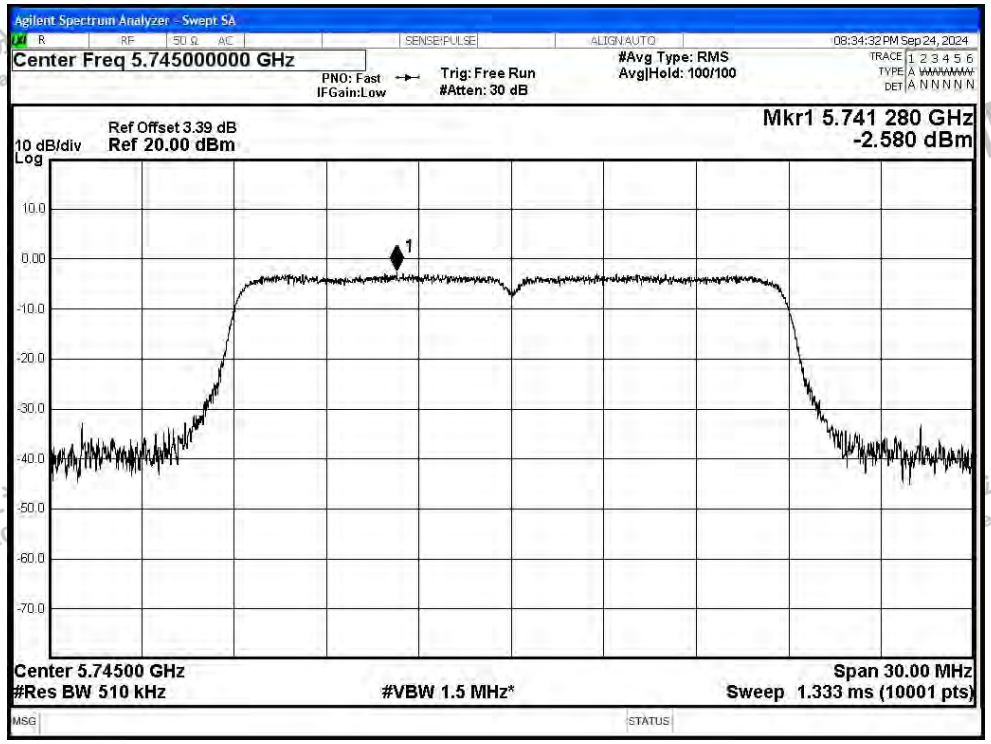
PSD NVNT a 5785MHz Ant1



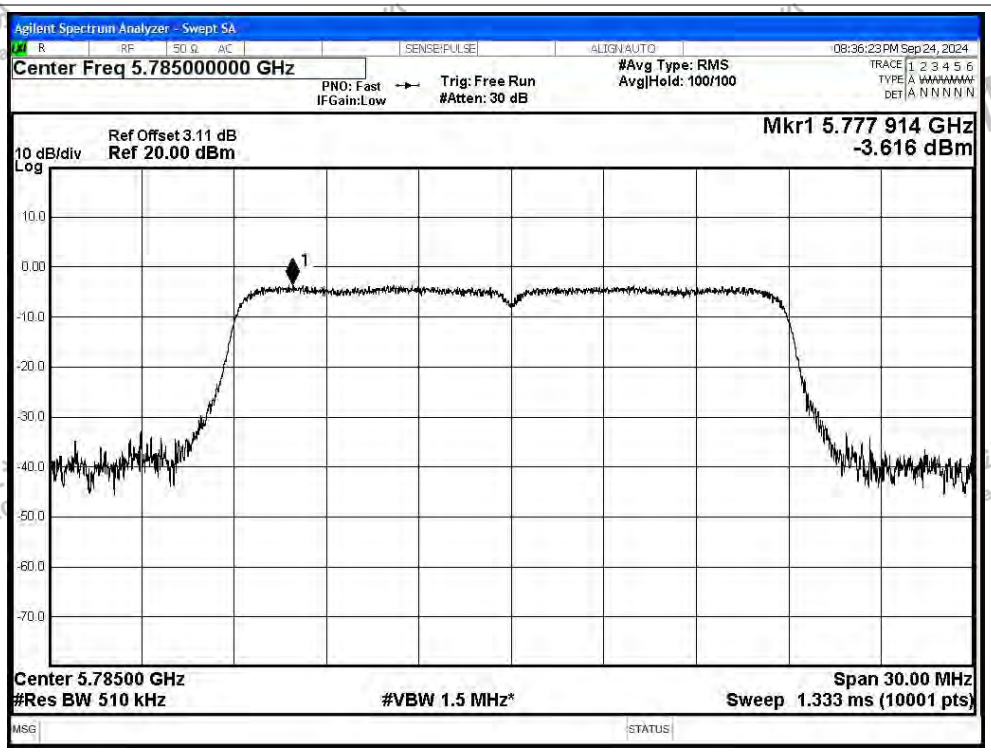
PSD NVNT a 5825MHz Ant1



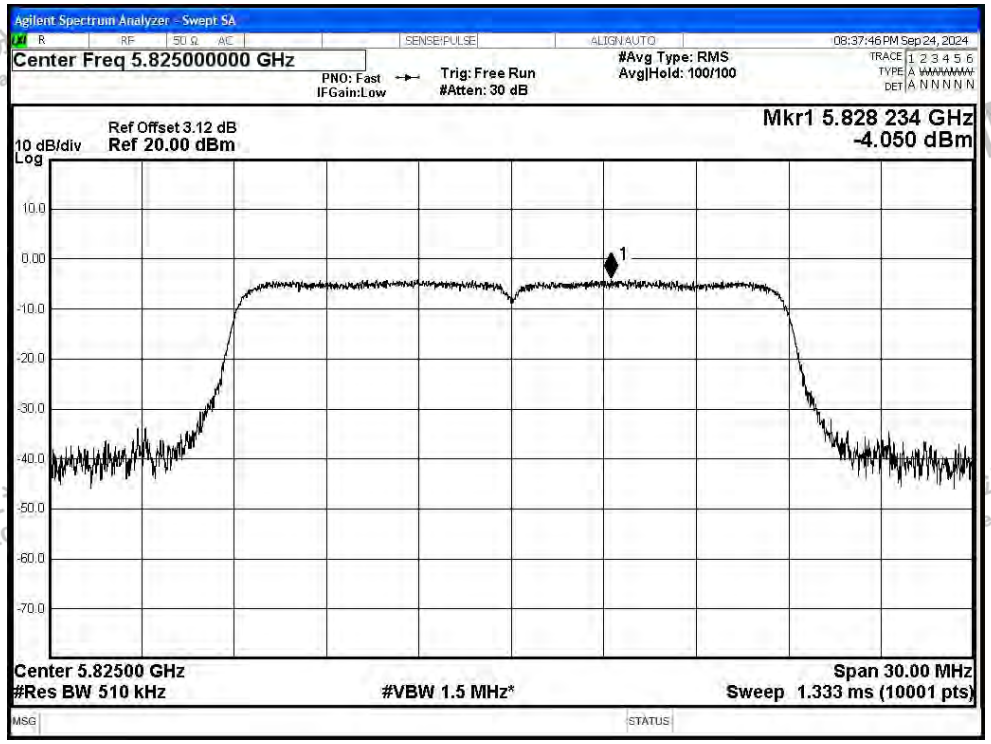
PSD NVNT n20 5745MHz Ant1



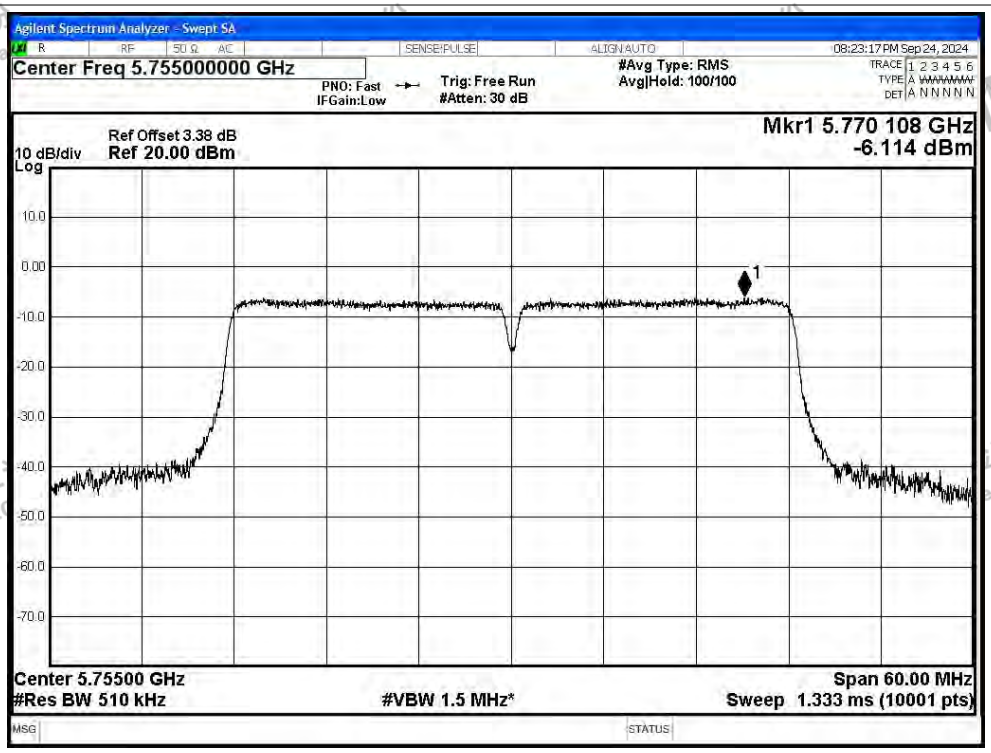
PSD NVNT n20 5785MHz Ant1



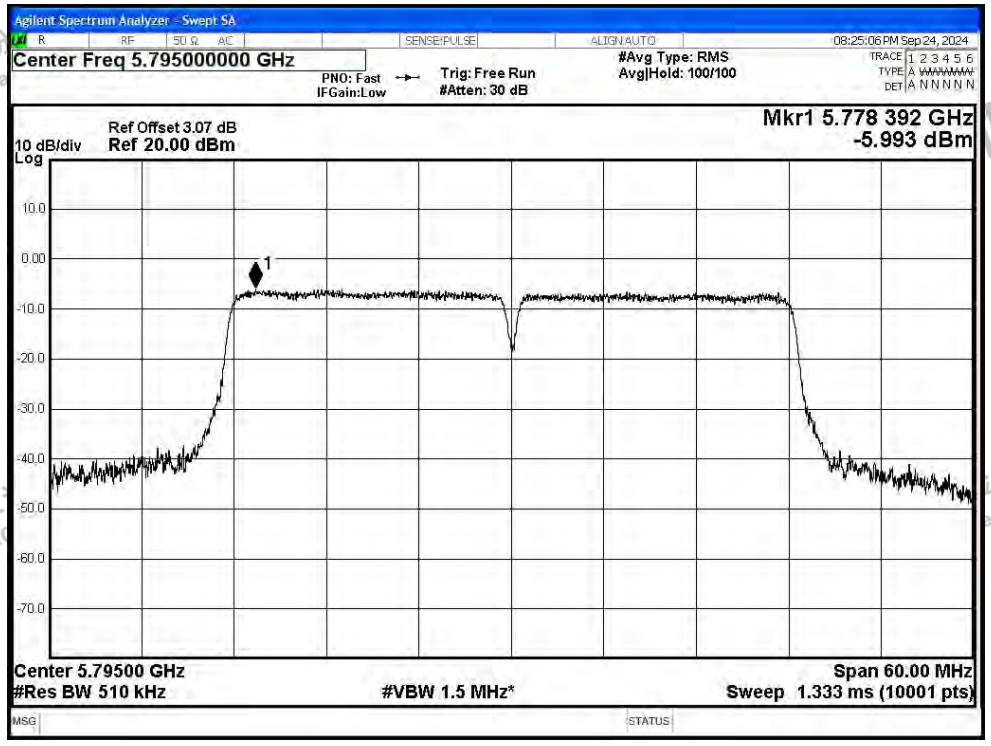
PSD NVNT n20 5825MHz Ant1



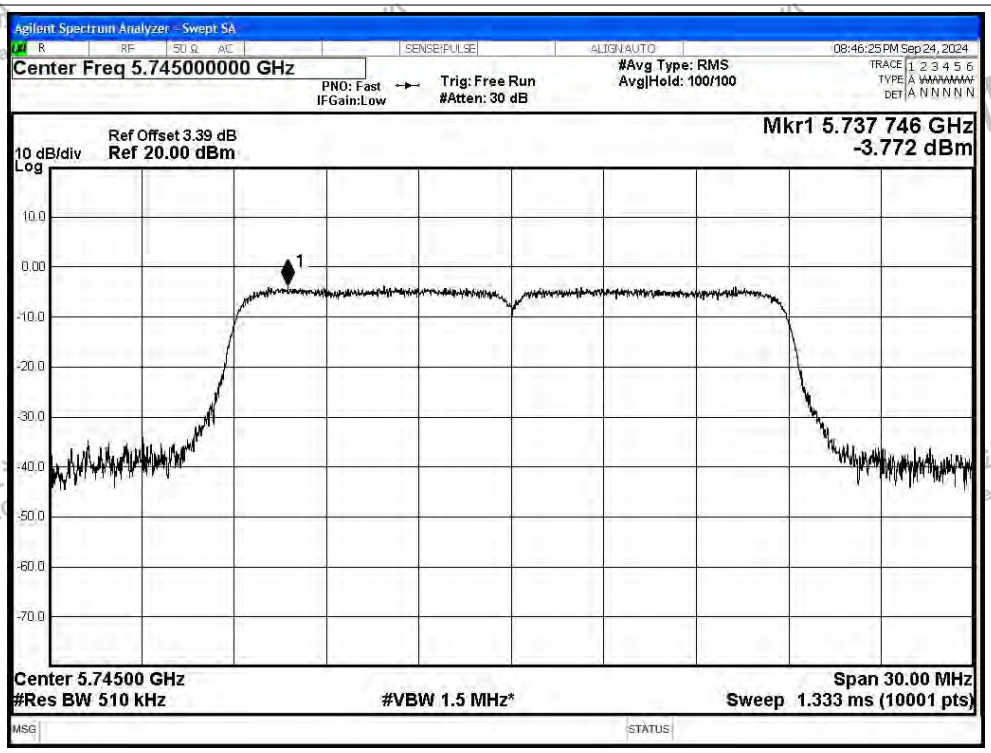
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5745MHz Ant1



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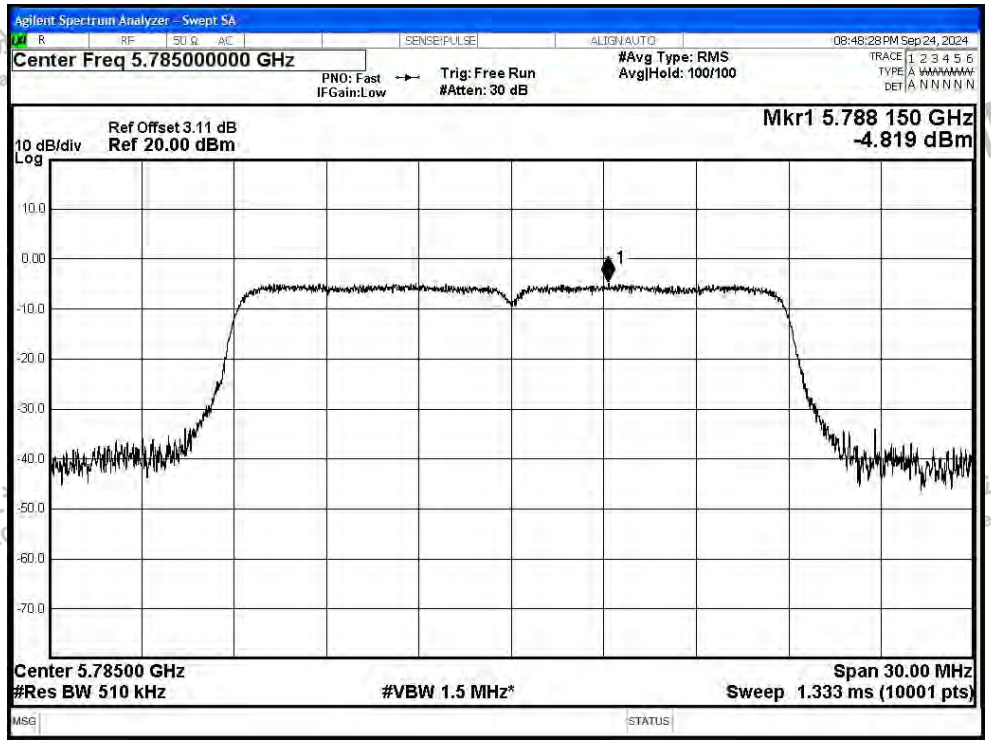

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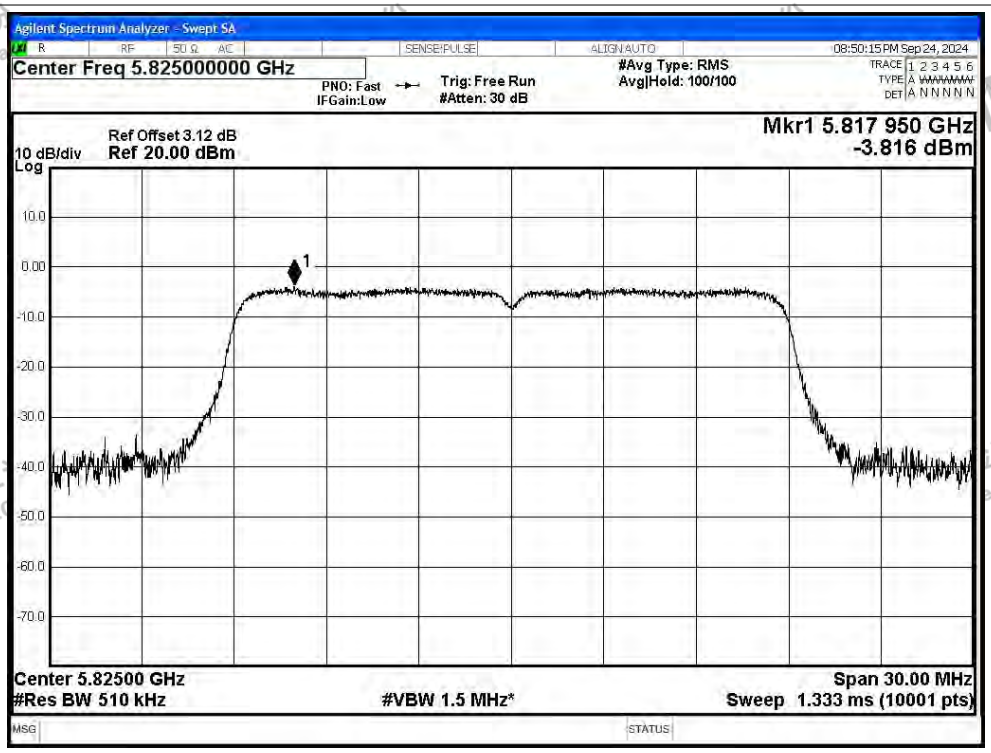
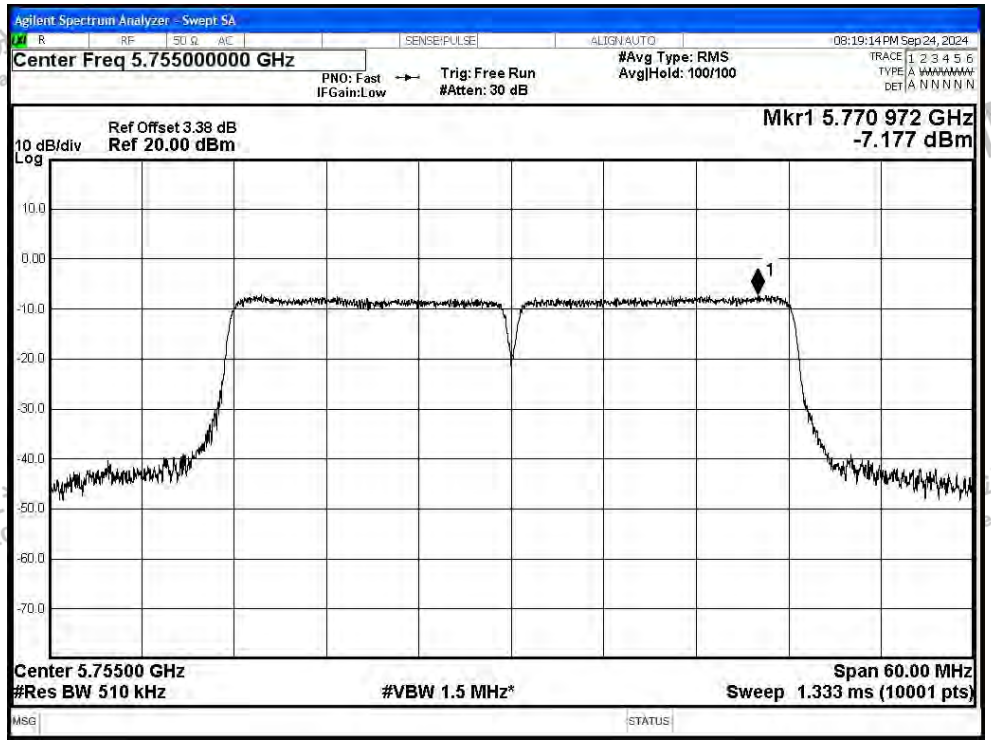
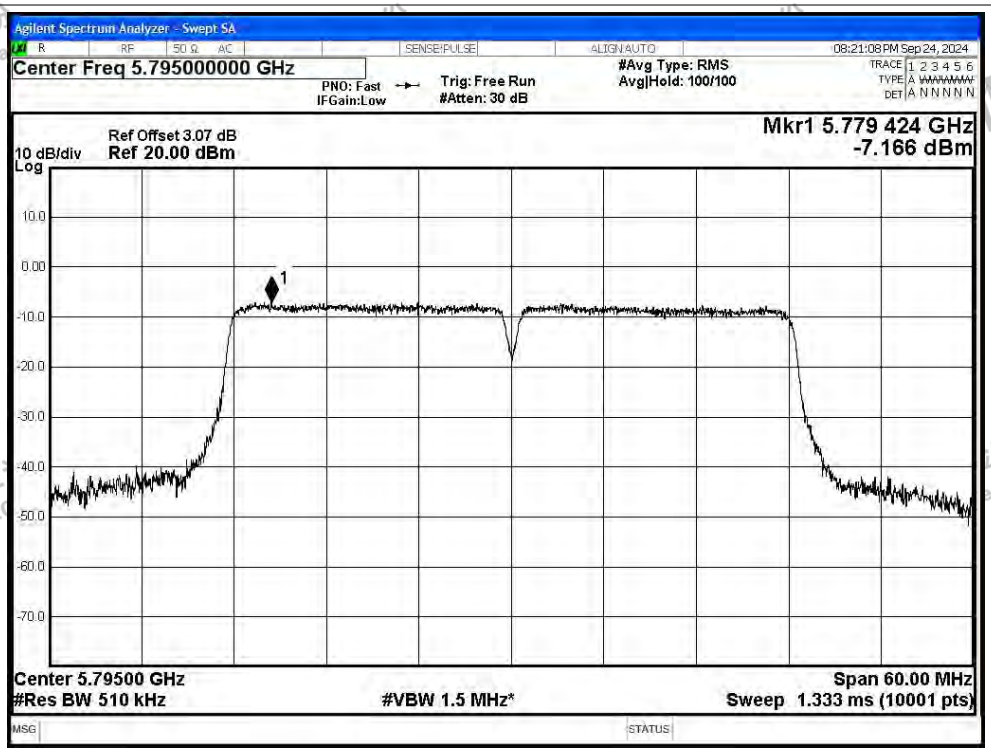


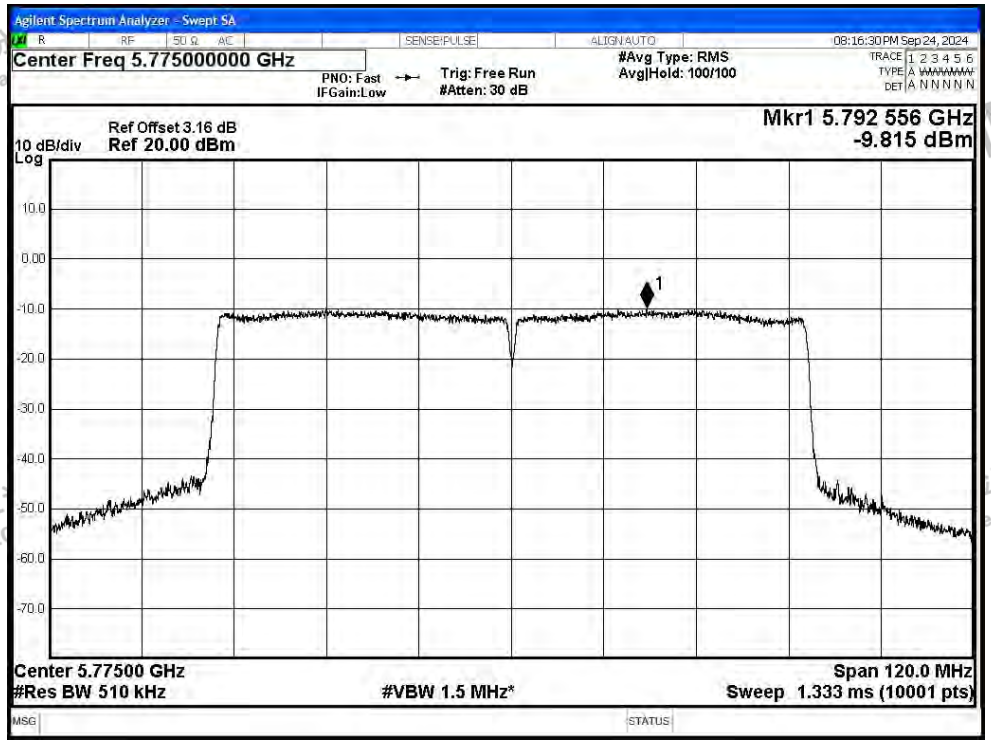
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz 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	Ant0	5650	-48.86	2.81	-	-46.05	Peak	-27	Pass
NVNT	a	5745	Ant0	5650	-56.93	2.81	0.24	-53.88	Average	-27	Pass
NVNT	a	5745	Ant0	5700	-47.38	2.81	-	-44.57	Peak	10	Pass
NVNT	a	5745	Ant0	5700	-54.8	2.81	0.24	-51.75	Average	10	Pass
NVNT	a	5745	Ant0	5720	-33.69	2.81	-	-30.88	Peak	15.6	Pass
NVNT	a	5745	Ant0	5720	-46.28	2.81	0.24	-43.23	Average	15.6	Pass
NVNT	a	5745	Ant0	5725	-26.05	2.81	-	-23.24	Peak	27	Pass
NVNT	a	5745	Ant0	5725	-42.73	2.81	0.24	-39.68	Average	27	Pass
NVNT	a	5825	Ant0	5850	-32.51	2.81	-	-29.7	Peak	27	Pass
NVNT	a	5825	Ant0	5850	-47.51	2.81	0.24	-44.46	Average	27	Pass
NVNT	a	5825	Ant0	5855	-37.71	2.81	-	-34.9	Peak	15.6	Pass
NVNT	a	5825	Ant0	5855	-51.56	2.81	0.24	-48.51	Average	15.6	Pass
NVNT	a	5825	Ant0	5875	-47.53	2.81	-	-44.72	Peak	10	Pass
NVNT	a	5825	Ant0	5875	-55.44	2.81	0.24	-52.39	Average	10	Pass
NVNT	a	5825	Ant0	5925	-47.98	2.81	-	-45.17	Peak	-27	Pass
NVNT	a	5825	Ant0	5925	-56.68	2.81	0.24	-53.63	Average	-27	Pass
NVNT	n20	5745	Ant0	5650	-48.4	2.81	-	-45.59	Peak	-27	Pass
NVNT	n20	5745	Ant0	5650	-57.23	2.81	0.12	-54.3	Average	-27	Pass
NVNT	n20	5745	Ant0	5700	-46.39	2.81	-	-43.58	Peak	10	Pass
NVNT	n20	5745	Ant0	5700	-54.73	2.81	0.12	-51.8	Average	10	Pass
NVNT	n20	5745	Ant0	5720	-32.15	2.81	-	-29.34	Peak	15.6	Pass
NVNT	n20	5745	Ant0	5720	-45.99	2.81	0.12	-43.06	Average	15.6	Pass
NVNT	n20	5745	Ant0	5725	-24.77	2.81	-	-21.96	Peak	27	Pass
NVNT	n20	5745	Ant0	5725	-39.46	2.81	0.12	-36.53	Average	27	Pass
NVNT	n20	5825	Ant0	5850	-33.05	2.81	-	-30.24	Peak	27	Pass
NVNT	n20	5825	Ant0	5850	-46.49	2.81	0.12	-43.56	Average	27	Pass
NVNT	n20	5825	Ant0	5855	-40.26	2.81	-	-37.45	Peak	15.6	Pass
NVNT	n20	5825	Ant0	5855	-51.99	2.81	0.12	-49.06	Average	15.6	Pass
NVNT	n20	5825	Ant0	5875	-47.08	2.81	-	-44.27	Peak	10	Pass
NVNT	n20	5825	Ant0	5875	-55.5	2.81	0.12	-52.57	Average	10	Pass
NVNT	n20	5825	Ant0	5925	-48.08	2.81	-	-45.27	Peak	-27	Pass
NVNT	n20	5825	Ant0	5925	-56.98	2.81	0.12	-54.05	Average	-27	Pass
NVNT	n40	5755	Ant0	5650	-48.45	2.81	-	-45.64	Peak	-27	Pass
NVNT	n40	5755	Ant0	5650	-57.18	2.81	0.12	-54.25	Average	-27	Pass
NVNT	n40	5755	Ant0	5700	-44.94	2.81	-	-42.13	Peak	10	Pass
NVNT	n40	5755	Ant0	5700	-53.53	2.81	0.12	-50.6	Average	10	Pass

NVNT	n40	5755	Ant0	5720	-30.97	2.81	-	-28.16	Peak	15.6	Pass
NVNT	n40	5755	Ant0	5720	-44.34	2.81	0.12	-41.41	Average	15.6	Pass
NVNT	n40	5755	Ant0	5725	-22.43	2.81	-	-19.62	Peak	27	Pass
NVNT	n40	5755	Ant0	5725	-42.14	2.81	0.12	-39.21	Average	27	Pass
NVNT	n40	5795	Ant0	5850	-44.75	2.81	-	-41.94	Peak	27	Pass
NVNT	n40	5795	Ant0	5850	-54.38	2.81	0.12	-51.45	Average	27	Pass
NVNT	n40	5795	Ant0	5855	-46.08	2.81	-	-43.27	Peak	15.6	Pass
NVNT	n40	5795	Ant0	5855	-55.03	2.81	0.12	-52.1	Average	15.6	Pass
NVNT	n40	5795	Ant0	5875	-50.35	2.81	-	-47.54	Peak	10	Pass
NVNT	n40	5795	Ant0	5875	-57.35	2.81	0.12	-54.42	Average	10	Pass
NVNT	n40	5795	Ant0	5925	-48.7	2.81	-	-45.89	Peak	-27	Pass
NVNT	n40	5795	Ant0	5925	-57.3	2.81	0.12	-54.37	Average	-27	Pass
NVNT	ac20	5745	Ant0	5650	-49.27	2.81	-	-46.46	Peak	-27	Pass
NVNT	ac20	5745	Ant0	5650	-57.15	2.81	0.12	-54.22	Average	-27	Pass
NVNT	ac20	5745	Ant0	5700	-46.64	2.81	-	-43.83	Peak	10	Pass
NVNT	ac20	5745	Ant0	5700	-55.45	2.81	0.12	-52.52	Average	10	Pass
NVNT	ac20	5745	Ant0	5720	-31.8	2.81	-	-28.99	Peak	15.6	Pass
NVNT	ac20	5745	Ant0	5720	-45.9	2.81	0.12	-42.97	Average	15.6	Pass
NVNT	ac20	5745	Ant0	5725	-26.62	2.81	-	-23.81	Peak	27	Pass
NVNT	ac20	5745	Ant0	5725	-40.23	2.81	0.12	-37.3	Average	27	Pass
NVNT	ac20	5825	Ant0	5850	-31.53	2.81	-	-28.72	Peak	27	Pass
NVNT	ac20	5825	Ant0	5850	-46.47	2.81	0.12	-43.54	Average	27	Pass
NVNT	ac20	5825	Ant0	5855	-38.99	2.81	-	-36.18	Peak	15.6	Pass
NVNT	ac20	5825	Ant0	5855	-49.44	2.81	0.12	-46.51	Average	15.6	Pass
NVNT	ac20	5825	Ant0	5875	-48.36	2.81	-	-45.55	Peak	10	Pass
NVNT	ac20	5825	Ant0	5875	-56.02	2.81	0.12	-53.09	Average	10	Pass
NVNT	ac20	5825	Ant0	5925	-49.49	2.81	-	-46.68	Peak	-27	Pass
NVNT	ac20	5825	Ant0	5925	-56.71	2.81	0.12	-53.78	Average	-27	Pass
NVNT	ac40	5755	Ant0	5650	-47.8	2.81	-	-44.99	Peak	-27	Pass
NVNT	ac40	5755	Ant0	5650	-57.34	2.81	0.12	-54.41	Average	-27	Pass
NVNT	ac40	5755	Ant0	5700	-45.99	2.81	-	-43.18	Peak	10	Pass
NVNT	ac40	5755	Ant0	5700	-54.58	2.81	0.12	-51.65	Average	10	Pass
NVNT	ac40	5755	Ant0	5720	-28.93	2.81	-	-26.12	Peak	15.6	Pass
NVNT	ac40	5755	Ant0	5720	-44.42	2.81	0.12	-41.49	Average	15.6	Pass
NVNT	ac40	5755	Ant0	5725	-24.89	2.81	-	-22.08	Peak	27	Pass
NVNT	ac40	5755	Ant0	5725	-42.25	2.81	0.12	-39.32	Average	27	Pass
NVNT	ac40	5795	Ant0	5850	-47.63	2.81	-	-44.82	Peak	27	Pass
NVNT	ac40	5795	Ant0	5850	-55.06	2.81	0.12	-52.13	Average	27	Pass
NVNT	ac40	5795	Ant0	5855	-47.3	2.81	-	-44.49	Peak	15.6	Pass
NVNT	ac40	5795	Ant0	5855	-56.58	2.81	0.12	-53.65	Average	15.6	Pass
NVNT	ac40	5795	Ant0	5875	-49.86	2.81	-	-47.05	Peak	10	Pass

NVNT	ac40	5795	Ant0	5875	-57.16	2.81	0.12	-54.23	Average	10	Pass
NVNT	ac40	5795	Ant0	5925	-49.4	2.81	-	-46.59	Peak	-27	Pass
NVNT	ac40	5795	Ant0	5925	-57.77	2.81	0.12	-54.84	Average	-27	Pass
NVNT	ac80	5775	Ant0	5650	-48.39	2.81	-	-45.58	Peak	-27	Pass
NVNT	ac80	5775	Ant0	5650	-55.27	2.81	0.25	-52.21	Average	-27	Pass
NVNT	ac80	5775	Ant0	5700	-42.78	2.81	-	-39.97	Peak	10	Pass
NVNT	ac80	5775	Ant0	5700	-51.82	2.81	0.25	-48.76	Average	10	Pass
NVNT	ac80	5775	Ant0	5720	-36.69	2.81	-	-33.88	Peak	15.6	Pass
NVNT	ac80	5775	Ant0	5720	-47.7	2.81	0.25	-44.64	Average	15.6	Pass
NVNT	ac80	5775	Ant0	5725	-32.48	2.81	-	-29.67	Peak	27	Pass
NVNT	ac80	5775	Ant0	5725	-45.67	2.81	0.25	-42.61	Average	27	Pass
NVNT	ac80	5775	Ant0	5850	-37.86	2.81	-	-35.05	Peak	27	Pass
NVNT	ac80	5775	Ant0	5850	-48.38	2.81	0.25	-45.32	Average	27	Pass
NVNT	ac80	5775	Ant0	5855	-40.02	2.81	-	-37.21	Peak	15.6	Pass
NVNT	ac80	5775	Ant0	5855	-49.02	2.81	0.25	-45.96	Average	15.6	Pass
NVNT	ac80	5775	Ant0	5875	-44.38	2.81	-	-41.57	Peak	10	Pass
NVNT	ac80	5775	Ant0	5875	-53.94	2.81	0.25	-50.88	Average	10	Pass
NVNT	ac80	5775	Ant0	5925	-48.98	2.81	-	-46.17	Peak	-27	Pass
NVNT	ac80	5775	Ant0	5925	-57.08	2.81	0.25	-54.02	Average	-27	Pass

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	-49.65	2.81	-	-46.84	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-56.98	2.81	0.24	-53.93	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-47.97	2.81	-	-45.16	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-55.33	2.81	0.24	-52.28	Average	10	Pass
NVNT	a	5745	Ant1	5720	-32.35	2.81	-	-29.54	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-44.75	2.81	0.24	-41.7	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-24.57	2.81	-	-21.76	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-41.98	2.81	0.24	-38.93	Average	27	Pass
NVNT	a	5825	Ant1	5850	-34.72	2.81	-	-31.91	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-50.65	2.81	0.24	-47.6	Average	27	Pass
NVNT	a	5825	Ant1	5855	-33.04	2.81	-	-30.23	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-53.27	2.81	0.24	-50.22	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-49.14	2.81	-	-46.33	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-56.14	2.81	0.24	-53.09	Average	10	Pass
NVNT	a	5825	Ant1	5925	-49.02	2.81	-	-46.21	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-56.9	2.81	0.24	-53.85	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-47.49	2.81	-	-44.68	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.23	2.81	0.12	-54.3	Average	-27	Pass

NVNT	n20	5745	Ant1	5700	-47.07	2.81	-	-44.26	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-54.85	2.81	0.12	-51.92	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-32.18	2.81	-	-29.37	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-44.17	2.81	0.12	-41.24	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-24.09	2.81	-	-21.28	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-39.04	2.81	0.12	-36.11	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-32.05	2.81	-	-29.24	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-48.84	2.81	0.12	-45.91	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-37.26	2.81	-	-34.45	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-52.56	2.81	0.12	-49.63	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48	2.81	-	-45.19	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-56.09	2.81	0.12	-53.16	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.11	2.81	-	-46.3	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-57	2.81	0.12	-54.07	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-49.19	2.81	-	-46.38	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-57.05	2.81	0.12	-54.12	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-45.92	2.81	-	-43.11	Peak	10	Pass
NVNT	n40	5755	Ant1	5700	-55.27	2.81	0.12	-52.34	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-29.35	2.81	-	-26.54	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-44.52	2.81	0.12	-41.59	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-26.7	2.81	-	-23.89	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-41.14	2.81	0.12	-38.21	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-48.54	2.81	-	-45.73	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-55.52	2.81	0.12	-52.59	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-48.35	2.81	-	-45.54	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-56.06	2.81	0.12	-53.13	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-47.95	2.81	-	-45.14	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-57.3	2.81	0.12	-54.37	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-49.79	2.81	-	-46.98	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-58.19	2.81	0.12	-55.26	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-47.48	2.81	-	-44.67	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-57.12	2.81	0.12	-54.19	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-46.93	2.81	-	-44.12	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-56.09	2.81	0.12	-53.16	Average	10	Pass
NVNT	ac20	5745	Ant1	5720	-32.06	2.81	-	-29.25	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-46.78	2.81	0.12	-43.85	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-23.4	2.81	-	-20.59	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-41.32	2.81	0.12	-38.39	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-34.84	2.81	-	-32.03	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-45.67	2.81	0.12	-42.74	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-40.35	2.81	-	-37.54	Peak	15.6	Pass

NVNT	ac20	5825	Ant1	5855	-51.65	2.81	0.12	-48.72	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-48.96	2.81	-	-46.15	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-55.89	2.81	0.12	-52.96	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-48.2	2.81	-	-45.39	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-57.09	2.81	0.12	-54.16	Average	-27	Pass
NVNT	ac40	5755	Ant1	5650	-48.14	2.81	-	-45.33	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-56.37	2.81	0.12	-53.44	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-46.07	2.81	-	-43.26	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-54.77	2.81	0.12	-51.84	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-33.18	2.81	-	-30.37	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-47.62	2.81	0.12	-44.69	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-25.94	2.81	-	-23.13	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-43.74	2.81	0.12	-40.81	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-46.84	2.81	-	-44.03	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-55.92	2.81	0.12	-52.99	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-48.73	2.81	-	-45.92	Peak	15.6	Pass
NVNT	ac40	5795	Ant1	5855	-56.4	2.81	0.12	-53.47	Average	15.6	Pass
NVNT	ac40	5795	Ant1	5875	-51.27	2.81	-	-48.46	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-58.35	2.81	0.12	-55.42	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-49.63	2.81	-	-46.82	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-57.86	2.81	0.12	-54.93	Average	-27	Pass
NVNT	ac80	5775	Ant1	5650	-48.1	2.81	-	-45.29	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5650	-56.18	2.81	0.25	-53.12	Average	-27	Pass
NVNT	ac80	5775	Ant1	5700	-45.85	2.81	-	-43.04	Peak	10	Pass
NVNT	ac80	5775	Ant1	5700	-53.01	2.81	0.25	-49.95	Average	10	Pass
NVNT	ac80	5775	Ant1	5720	-36.84	2.81	-	-34.03	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5720	-49.98	2.81	0.25	-46.92	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5725	-28.43	2.81	-	-25.62	Peak	27	Pass
NVNT	ac80	5775	Ant1	5725	-46.33	2.81	0.25	-43.27	Average	27	Pass
NVNT	ac80	5775	Ant1	5850	-41.43	2.81	-	-38.62	Peak	27	Pass
NVNT	ac80	5775	Ant1	5850	-51.94	2.81	0.25	-48.88	Average	27	Pass
NVNT	ac80	5775	Ant1	5855	-43.88	2.81	-	-41.07	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5855	-53.25	2.81	0.25	-50.19	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5875	-46.41	2.81	-	-43.6	Peak	10	Pass
NVNT	ac80	5775	Ant1	5875	-55.3	2.81	0.25	-52.24	Average	10	Pass
NVNT	ac80	5775	Ant1	5925	-48.74	2.81	-	-45.93	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5925	-56.9	2.81	0.25	-53.84	Average	-27	Pass

MIMO

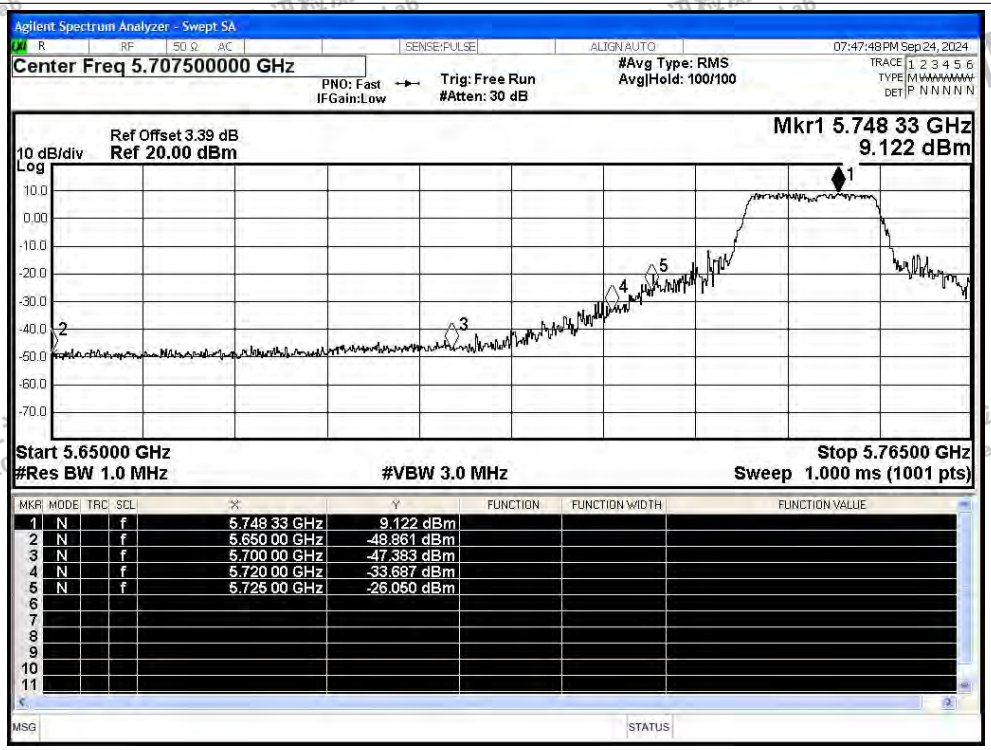
Condition	Mode	Frequency (MHz)	Ant0 Power (dBm)	Ant1 Power (dBm)	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5745	-48.4	-47.49	5.82	-39.09	Peak	-27	Pass
NVNT	n20	5745	-57.23	-57.23	5.82	-48.4	Average	-27	Pass
NVNT	n20	5745	-46.39	-47.07	5.82	-37.89	Peak	10	Pass
NVNT	n20	5745	-54.73	-54.85	5.82	-45.96	Average	10	Pass
NVNT	n20	5745	-32.15	-32.18	5.82	-23.33	Peak	15.6	Pass
NVNT	n20	5745	-45.99	-44.17	5.82	-36.15	Average	15.6	Pass
NVNT	n20	5745	-24.77	-24.09	5.82	-15.59	Peak	27	Pass
NVNT	n20	5745	-39.46	-39.04	5.82	-30.41	Average	27	Pass
NVNT	n20	5825	-33.05	-32.05	5.82	-23.69	Peak	27	Pass
NVNT	n20	5825	-46.49	-48.84	5.82	-38.68	Average	27	Pass
NVNT	n20	5825	-40.26	-37.26	5.82	-29.68	Peak	15.6	Pass
NVNT	n20	5825	-51.99	-52.56	5.82	-43.44	Average	15.6	Pass
NVNT	n20	5825	-47.08	-48	5.82	-38.69	Peak	10	Pass
NVNT	n20	5825	-55.5	-56.09	5.82	-46.95	Average	10	Pass
NVNT	n20	5825	-48.08	-49.11	5.82	-39.73	Peak	-27	Pass
NVNT	n20	5825	-56.98	-57	5.82	-48.16	Average	-27	Pass
NVNT	n40	5755	-48.45	-49.19	5.82	-39.97	Peak	-27	Pass
NVNT	n40	5755	-57.18	-57.05	5.82	-48.28	Average	-27	Pass
NVNT	n40	5755	-44.94	-45.92	5.82	-36.57	Peak	10	Pass
NVNT	n40	5755	-53.53	-55.27	5.82	-45.48	Average	10	Pass
NVNT	n40	5755	-30.97	-29.35	5.82	-21.25	Peak	15.6	Pass
NVNT	n40	5755	-44.34	-44.52	5.82	-35.6	Average	15.6	Pass
NVNT	n40	5755	-22.43	-26.7	5.82	-15.23	Peak	27	Pass
NVNT	n40	5755	-42.14	-41.14	5.82	-32.78	Average	27	Pass
NVNT	n40	5795	-44.75	-48.54	5.82	-37.41	Peak	27	Pass
NVNT	n40	5795	-54.38	-55.52	5.82	-46.08	Average	27	Pass
NVNT	n40	5795	-46.08	-48.35	5.82	-38.24	Peak	15.6	Pass
NVNT	n40	5795	-55.03	-56.06	5.82	-46.68	Average	15.6	Pass
NVNT	n40	5795	-50.35	-47.95	5.82	-40.16	Peak	10	Pass
NVNT	n40	5795	-57.35	-57.3	5.82	-48.49	Average	10	Pass
NVNT	n40	5795	-48.7	-49.79	5.82	-40.38	Peak	-27	Pass
NVNT	n40	5795	-57.3	-58.19	5.82	-48.89	Average	-27	Pass
NVNT	ac20	5745	-49.27	-47.48	5.82	-39.45	Peak	-27	Pass
NVNT	ac20	5745	-57.15	-57.12	5.82	-48.3	Average	-27	Pass
NVNT	ac20	5745	-46.64	-46.93	5.82	-37.95	Peak	10	Pass
NVNT	ac20	5745	-55.45	-56.09	5.82	-46.93	Average	10	Pass
NVNT	ac20	5745	-31.8	-32.06	5.82	-23.1	Peak	15.6	Pass

NVNT	ac20	5745	-45.9	-46.78	5.82	-37.49	Average	15.6	Pass
NVNT	ac20	5745	-26.62	-23.4	5.82	-15.89	Peak	27	Pass
NVNT	ac20	5745	-40.23	-41.32	5.82	-31.91	Average	27	Pass
NVNT	ac20	5825	-31.53	-34.84	5.82	-24.05	Peak	27	Pass
NVNT	ac20	5825	-46.47	-45.67	5.82	-37.22	Average	27	Pass
NVNT	ac20	5825	-38.99	-40.35	5.82	-30.79	Peak	15.6	Pass
NVNT	ac20	5825	-49.44	-51.65	5.82	-41.58	Average	15.6	Pass
NVNT	ac20	5825	-48.36	-48.96	5.82	-39.82	Peak	10	Pass
NVNT	ac20	5825	-56.02	-55.89	5.82	-47.12	Average	10	Pass
NVNT	ac20	5825	-49.49	-48.2	5.82	-39.97	Peak	-27	Pass
NVNT	ac20	5825	-56.71	-57.09	5.82	-48.07	Average	-27	Pass
NVNT	ac40	5755	-47.8	-48.14	5.82	-39.14	Peak	-27	Pass
NVNT	ac40	5755	-57.34	-56.37	5.82	-48	Average	-27	Pass
NVNT	ac40	5755	-45.99	-46.07	5.82	-37.2	Peak	10	Pass
NVNT	ac40	5755	-54.58	-54.77	5.82	-45.84	Average	10	Pass
NVNT	ac40	5755	-28.93	-33.18	5.82	-21.72	Peak	15.6	Pass
NVNT	ac40	5755	-44.42	-47.62	5.82	-36.9	Average	15.6	Pass
NVNT	ac40	5755	-24.89	-25.94	5.82	-16.55	Peak	27	Pass
NVNT	ac40	5755	-42.25	-43.74	5.82	-34.1	Average	27	Pass
NVNT	ac40	5795	-47.63	-46.84	5.82	-38.39	Peak	27	Pass
NVNT	ac40	5795	-55.06	-55.92	5.82	-46.64	Average	27	Pass
NVNT	ac40	5795	-47.3	-48.73	5.82	-39.13	Peak	15.6	Pass
NVNT	ac40	5795	-56.58	-56.4	5.82	-47.66	Average	15.6	Pass
NVNT	ac40	5795	-49.86	-51.27	5.82	-41.68	Peak	10	Pass
NVNT	ac40	5795	-57.16	-58.35	5.82	-48.88	Average	10	Pass
NVNT	ac40	5795	-49.4	-49.63	5.82	-40.68	Peak	-27	Pass
NVNT	ac40	5795	-57.77	-57.86	5.82	-48.98	Average	-27	Pass
NVNT	ac80	5775	-48.39	-48.1	5.82	-39.41	Peak	-27	Pass
NVNT	ac80	5775	-55.27	-56.18	5.82	-46.87	Average	-27	Pass
NVNT	ac80	5775	-42.78	-45.85	5.82	-35.22	Peak	10	Pass
NVNT	ac80	5775	-51.82	-53.01	5.82	-43.54	Average	10	Pass
NVNT	ac80	5775	-36.69	-36.84	5.82	-27.93	Peak	15.6	Pass
NVNT	ac80	5775	-47.7	-49.98	5.82	-39.86	Average	15.6	Pass
NVNT	ac80	5775	-32.48	-28.43	5.82	-21.17	Peak	27	Pass
NVNT	ac80	5775	-45.67	-46.33	5.82	-37.16	Average	27	Pass
NVNT	ac80	5775	-37.86	-41.43	5.82	-30.46	Peak	27	Pass
NVNT	ac80	5775	-48.38	-51.94	5.82	-40.97	Average	27	Pass
NVNT	ac80	5775	-40.02	-43.88	5.82	-32.7	Peak	15.6	Pass
NVNT	ac80	5775	-49.02	-53.25	5.82	-41.81	Average	15.6	Pass
NVNT	ac80	5775	-44.38	-46.41	5.82	-36.45	Peak	10	Pass
NVNT	ac80	5775	-53.94	-55.3	5.82	-45.74	Average	10	Pass

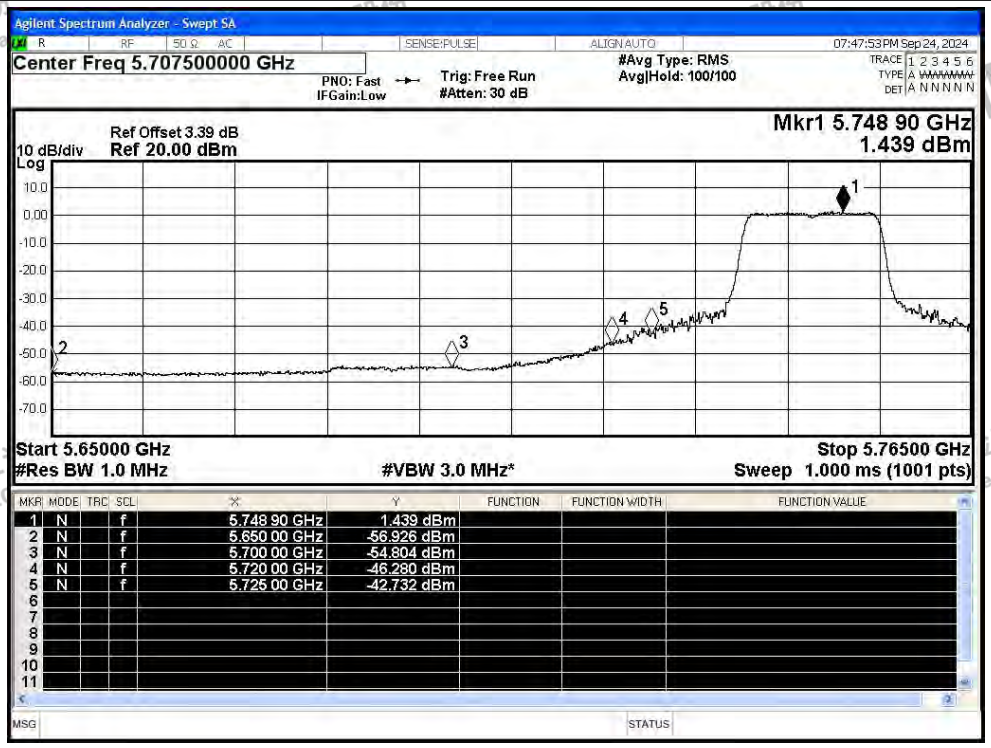
NVNT	ac80	5775	-48.98	-48.74	5.82	-40.03	Peak	-27	Pass
NVNT	ac80	5775	-57.08	-56.9	5.82	-48.16	Average	-27	Pass

Test Graphs

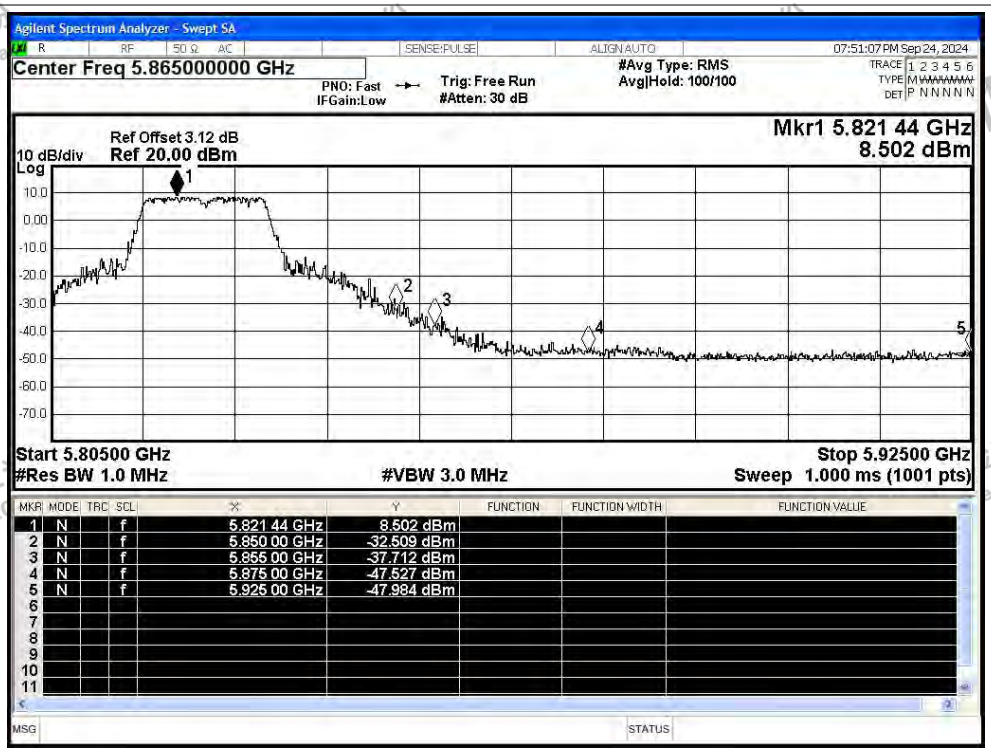
Restrict Band NVNT a 5745MHz Ant0 Peak



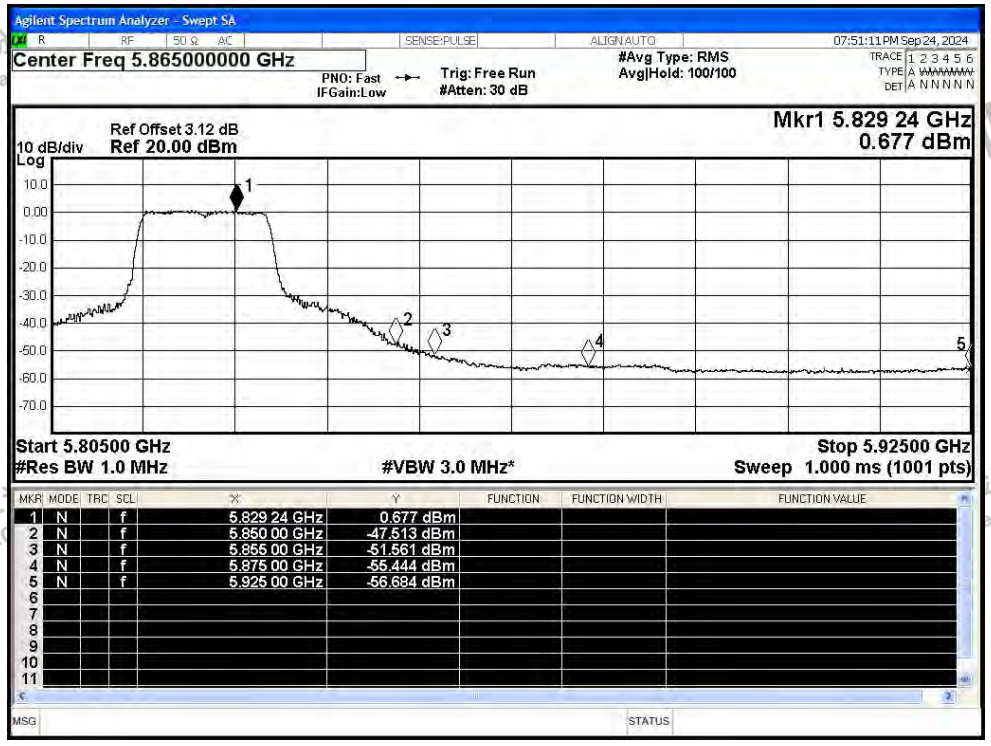
Restrict Band NVNT a 5745MHz Ant0 Average



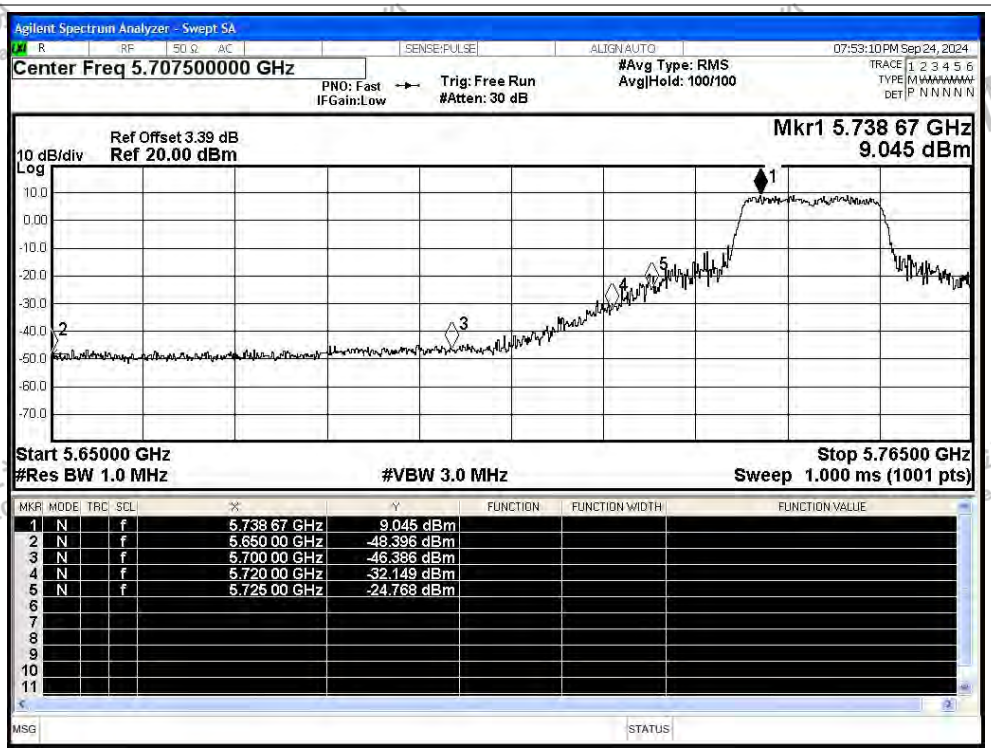
Restrict Band NVNT a 5825MHz Ant0 Peak



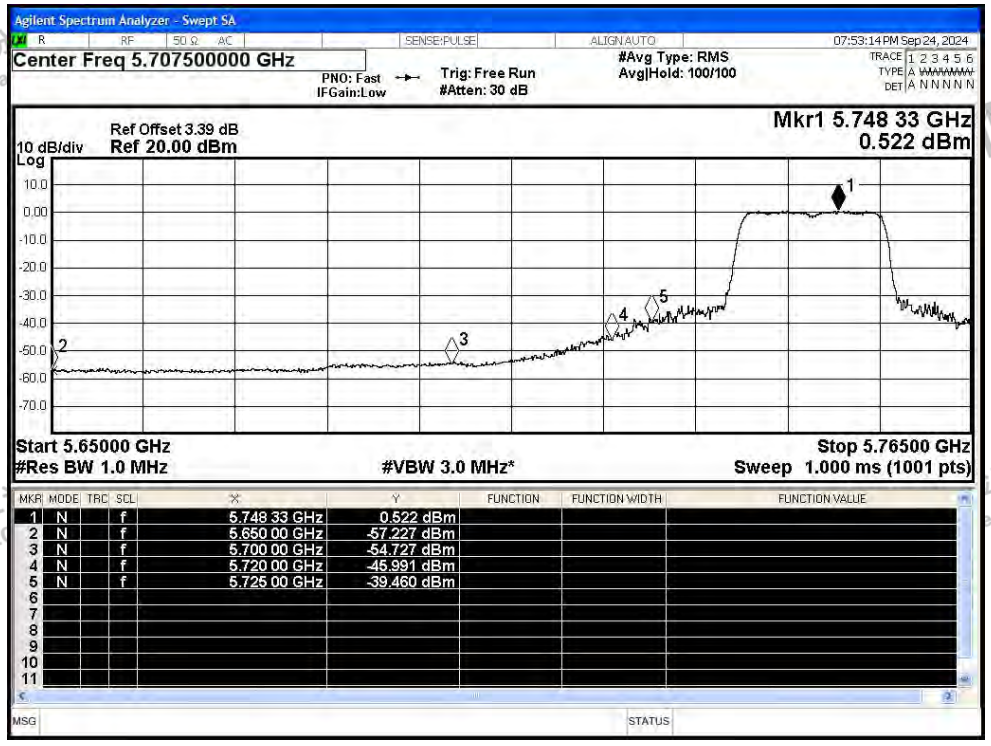
Restrict Band NVNT a 5825MHz Ant0 Average



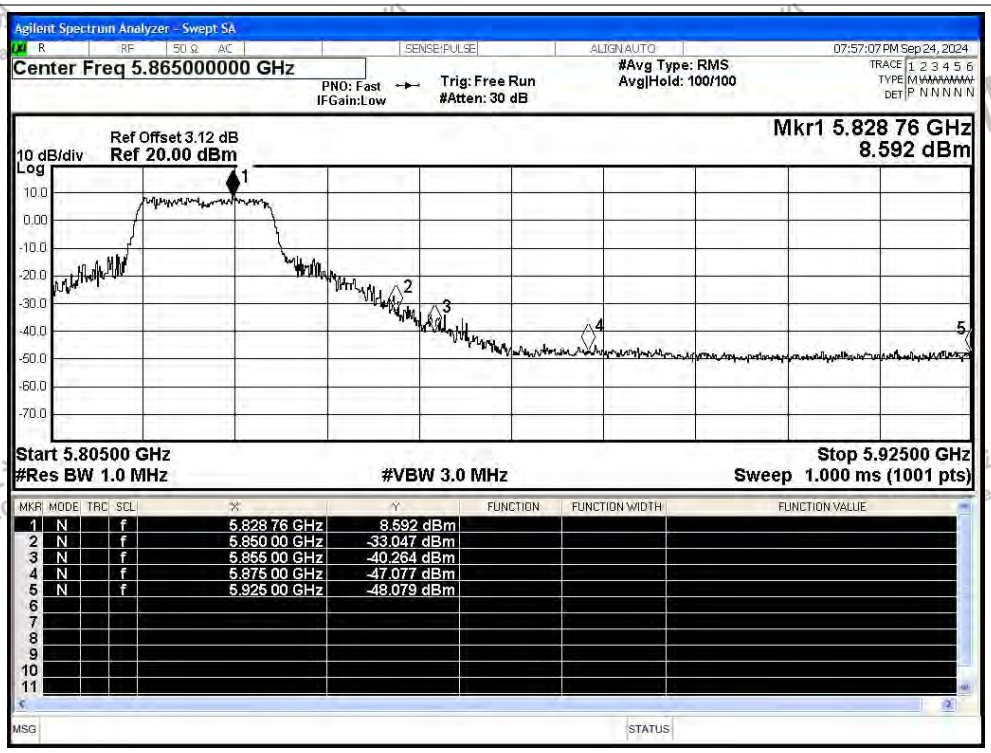
Restrict Band NVNT n20 5745MHz Ant0 Peak



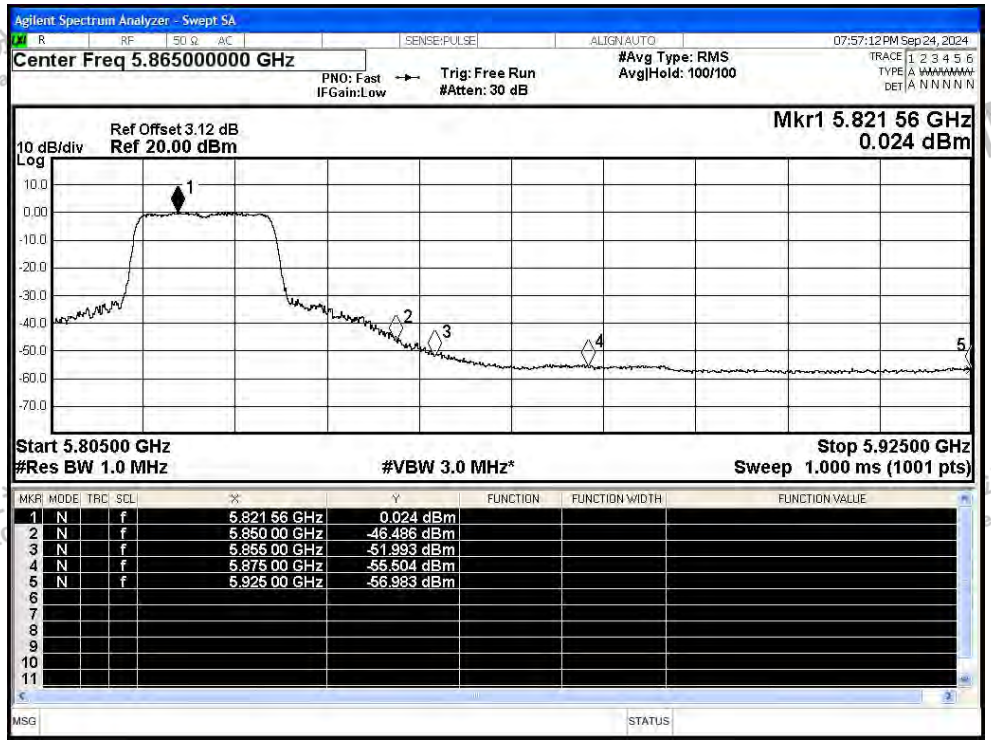
Restrict Band NVNT n20 5745MHz Ant0 Average



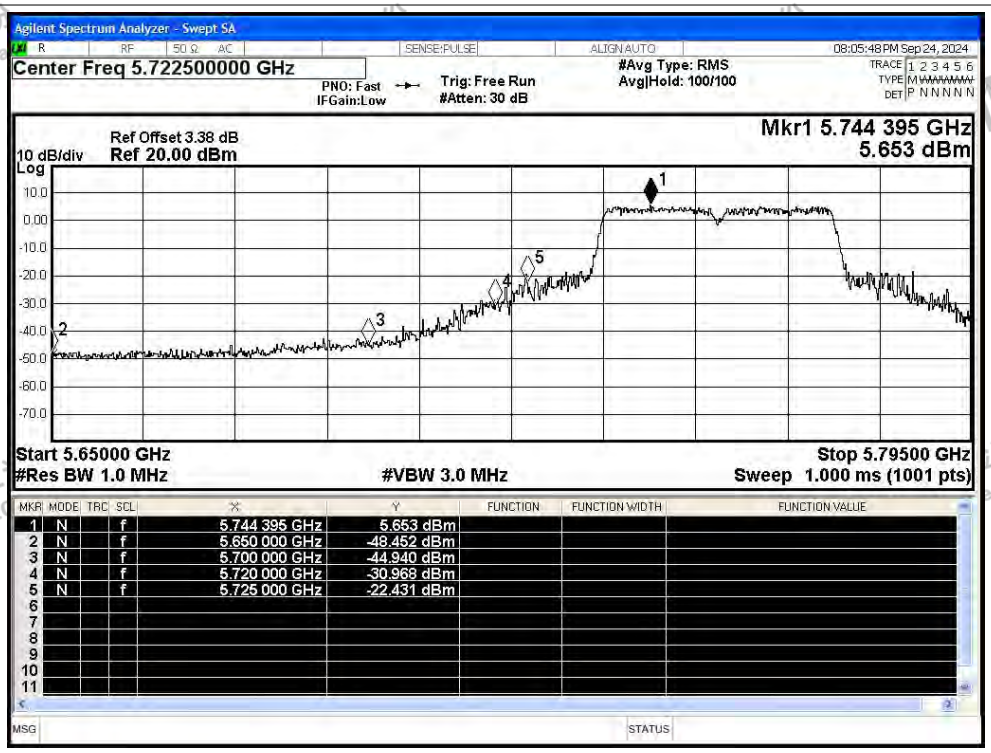
Restrict Band NVNT n20 5825MHz Ant0 Peak



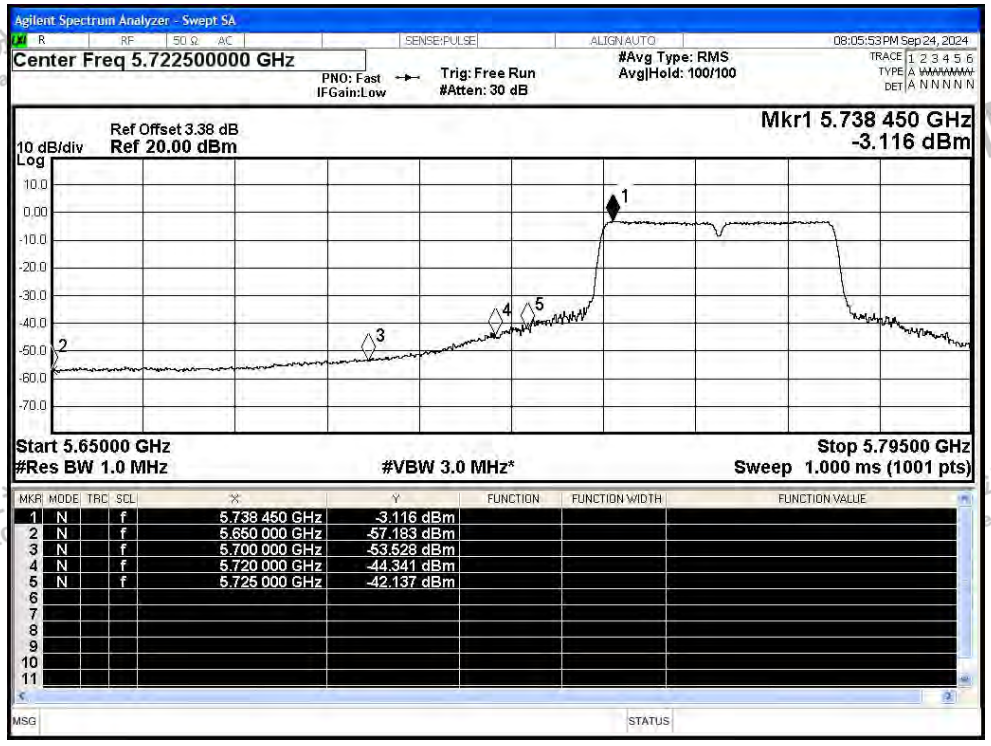
Restrict Band NVNT n20 5825MHz Ant0 Average



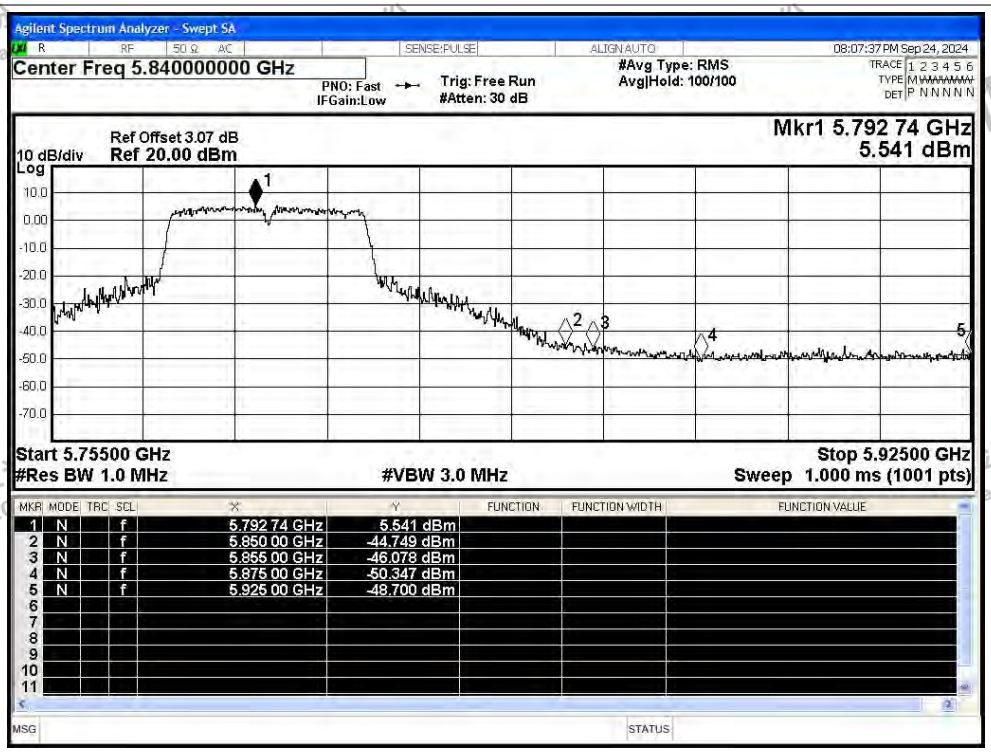
Restrict Band NVNT n40 5755MHz Ant0 Peak



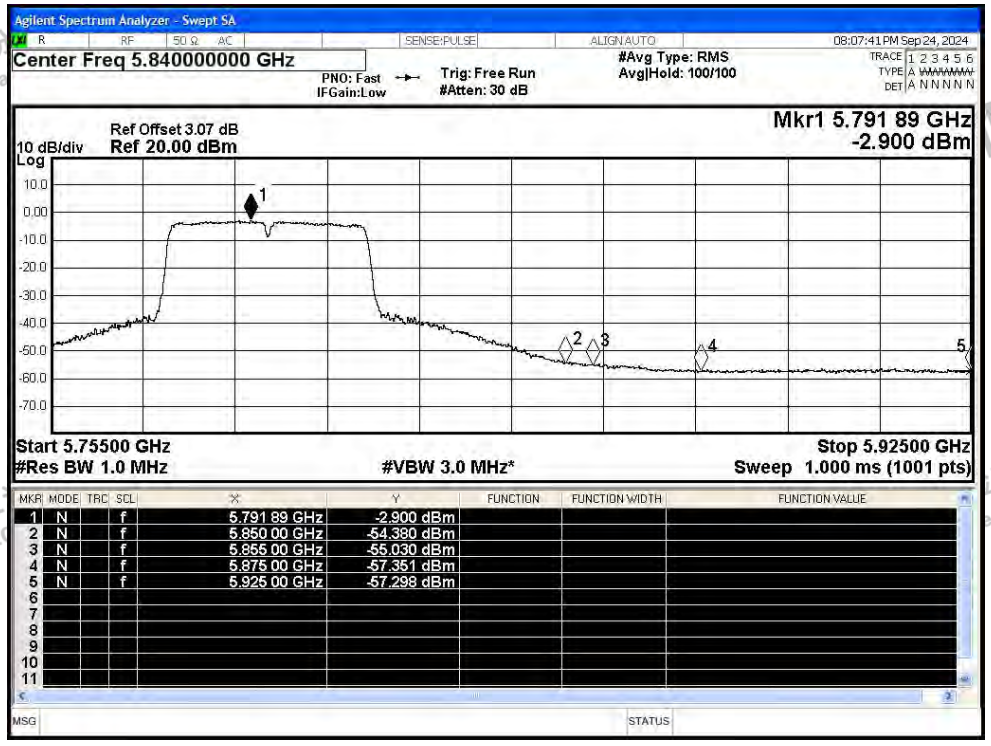
Restrict Band NVNT n40 5755MHz Ant0 Average



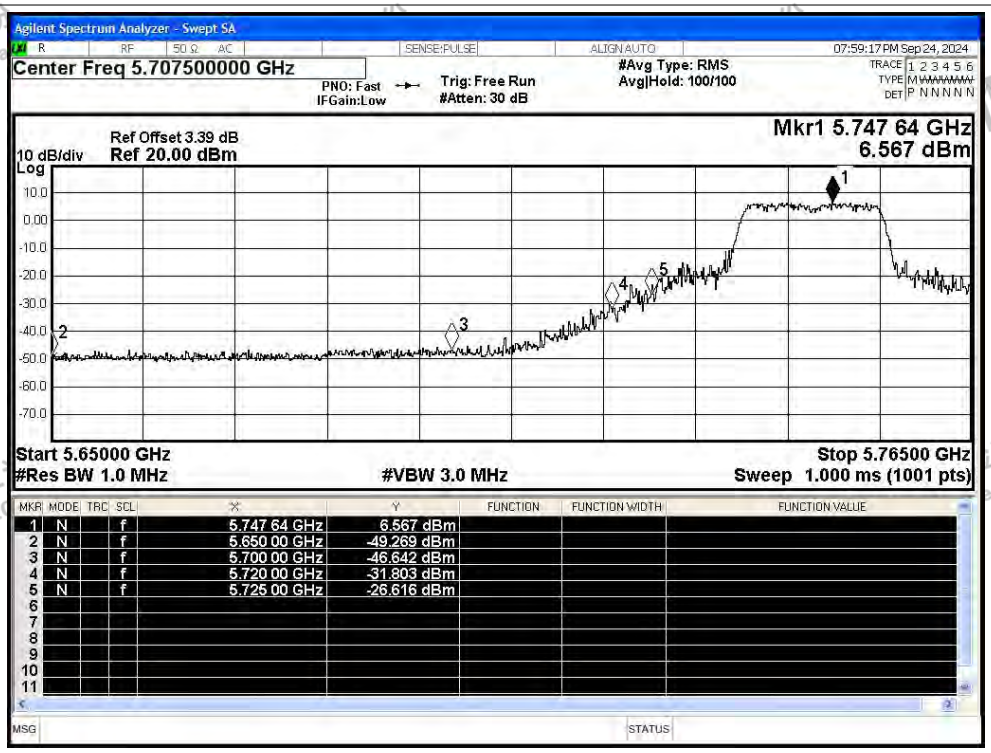
Restrict Band NVNT n40 5795MHz Ant0 Peak



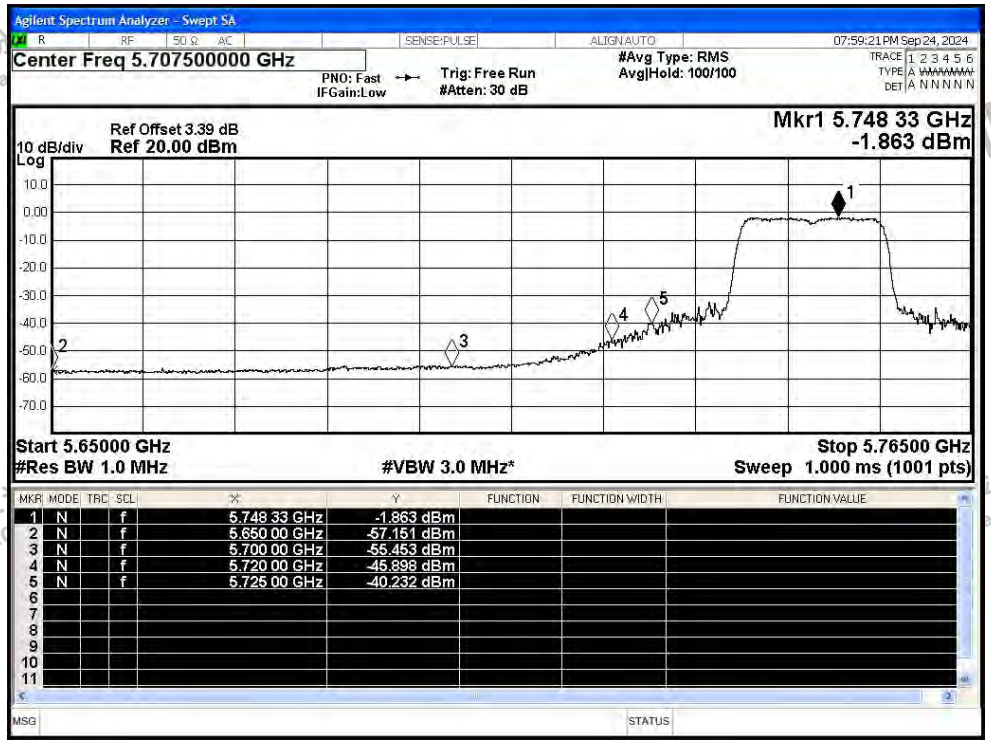
Restrict Band NVNT n40 5795MHz Ant0 Average



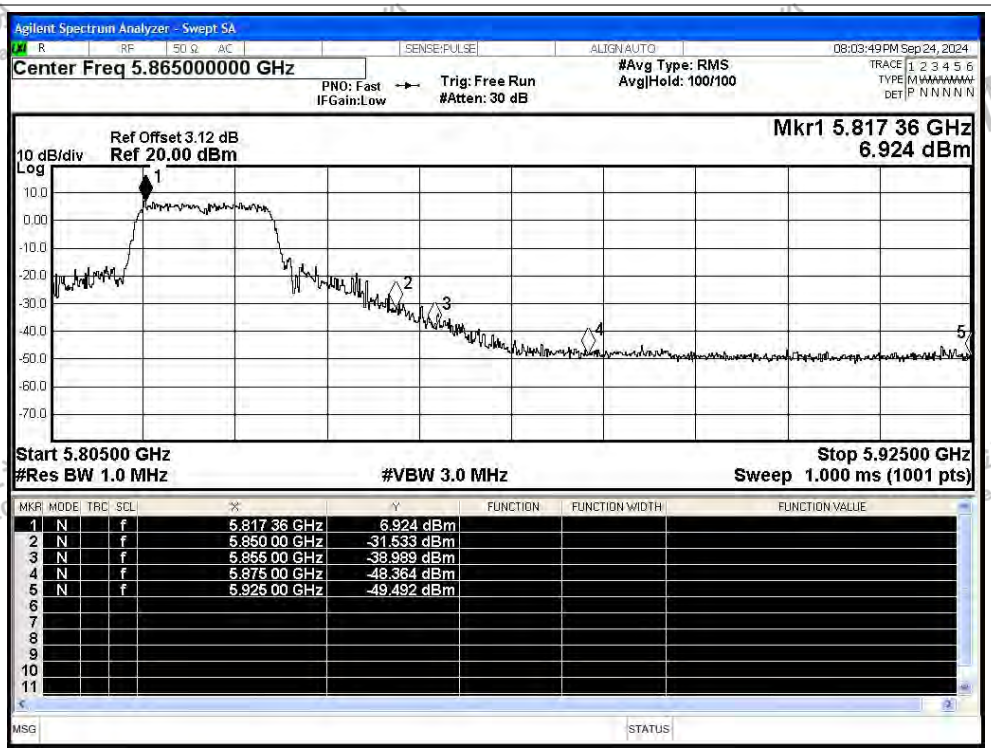
Restrict Band NVNT ac20 5745MHz Ant0 Peak



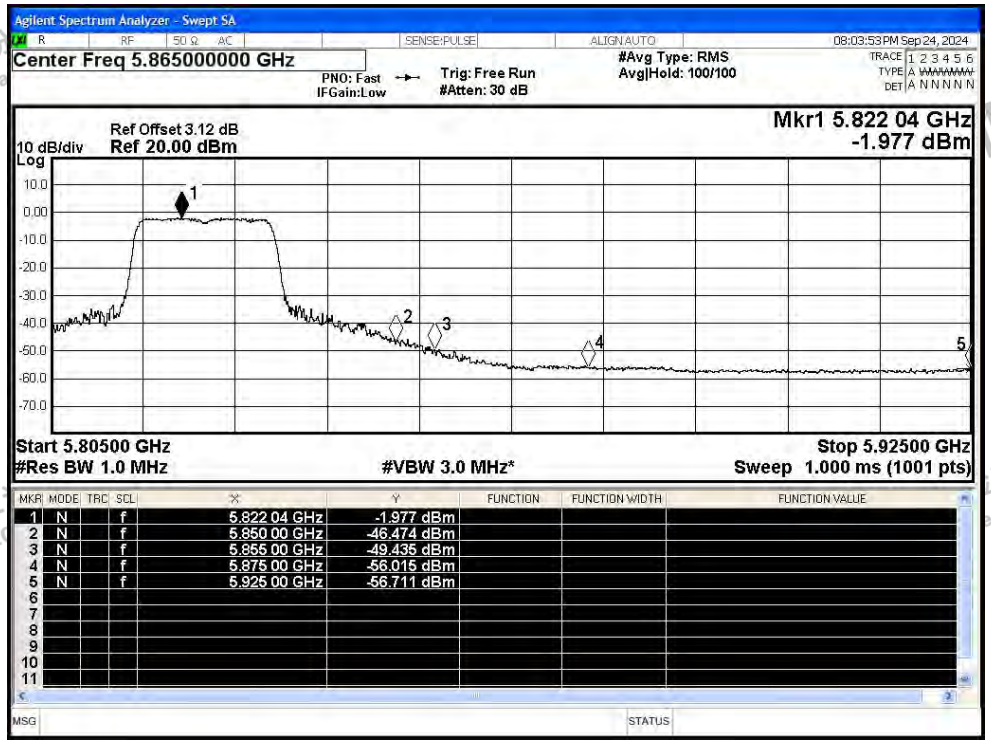
Restrict Band NVNT ac20 5745MHz Ant0 Average



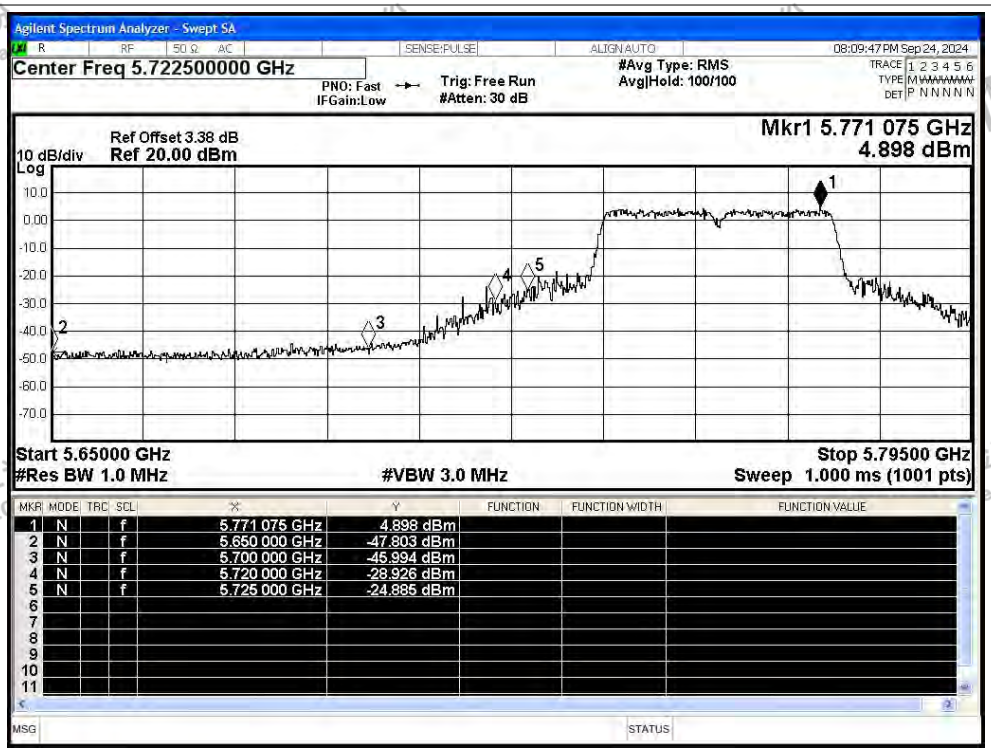
Restrict Band NVNT ac20 5825MHz Ant0 Peak



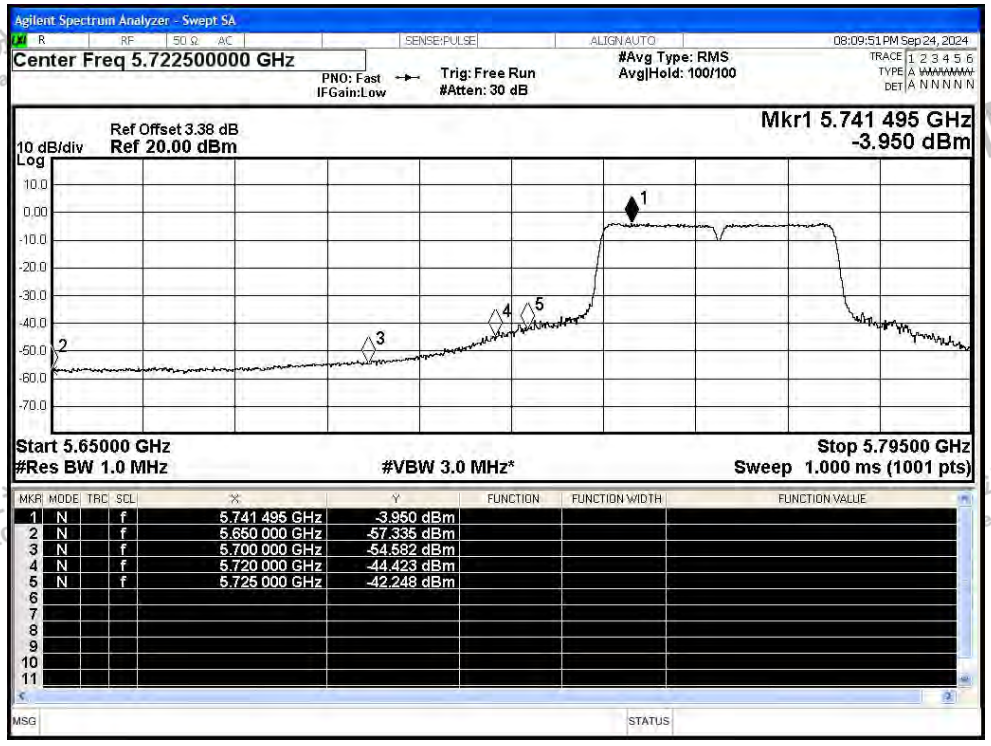
Restrict Band NVNT ac20 5825MHz Ant0 Average



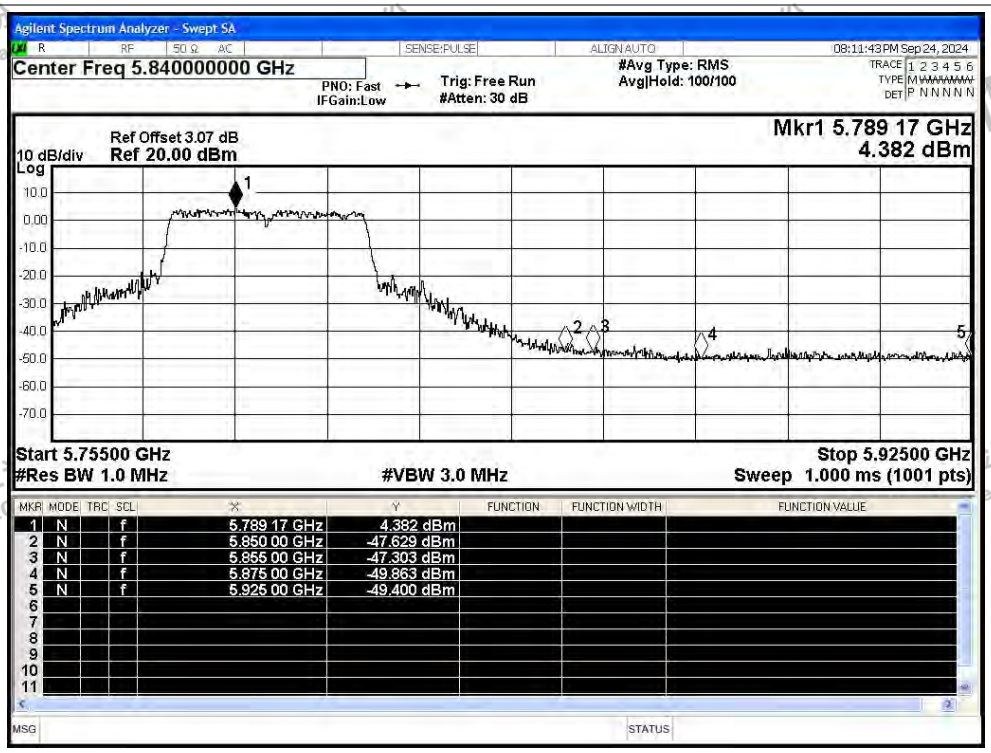
Restrict Band NVNT ac40 5755MHz Ant0 Peak



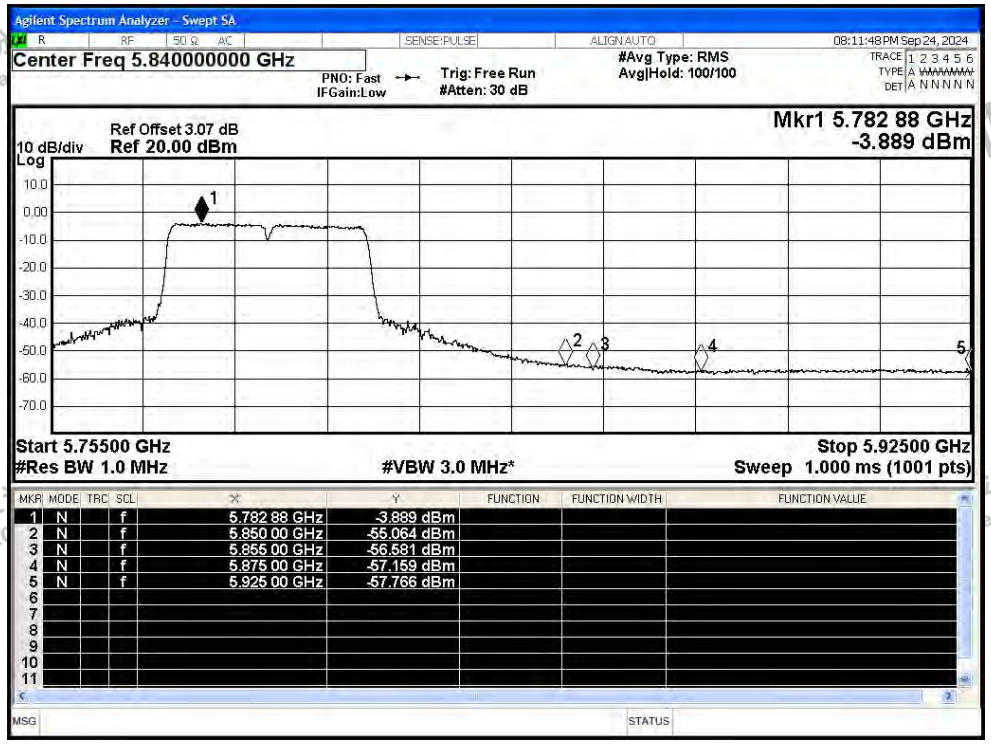
Restrict Band NVNT ac40 5755MHz Ant0 Average



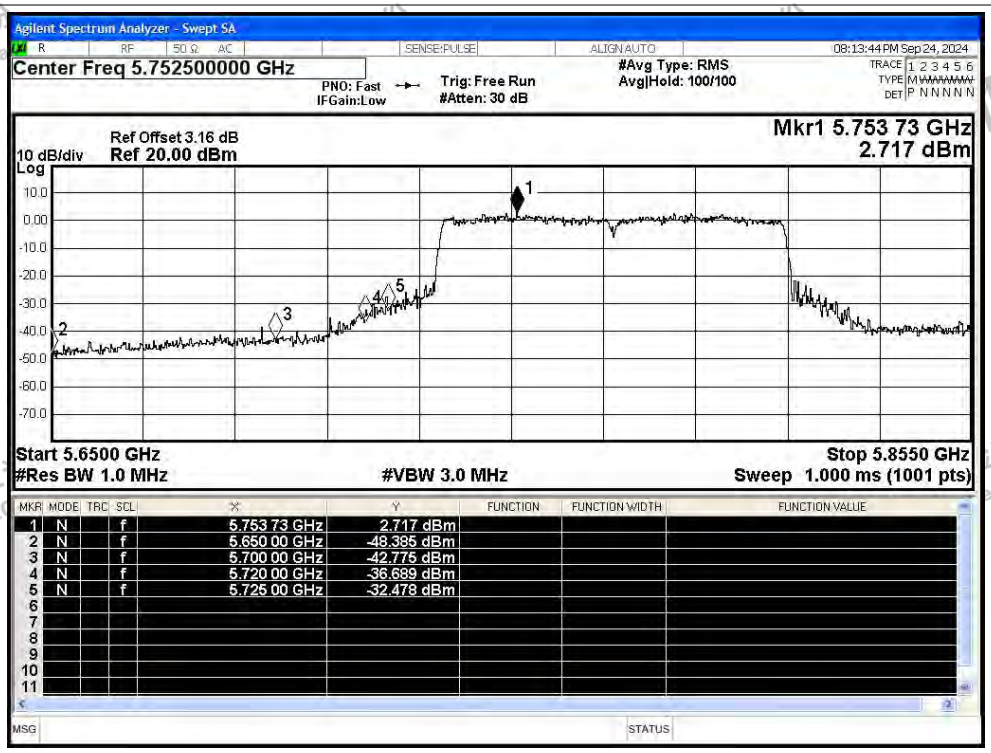
Restrict Band NVNT ac40 5795MHz Ant0 Peak



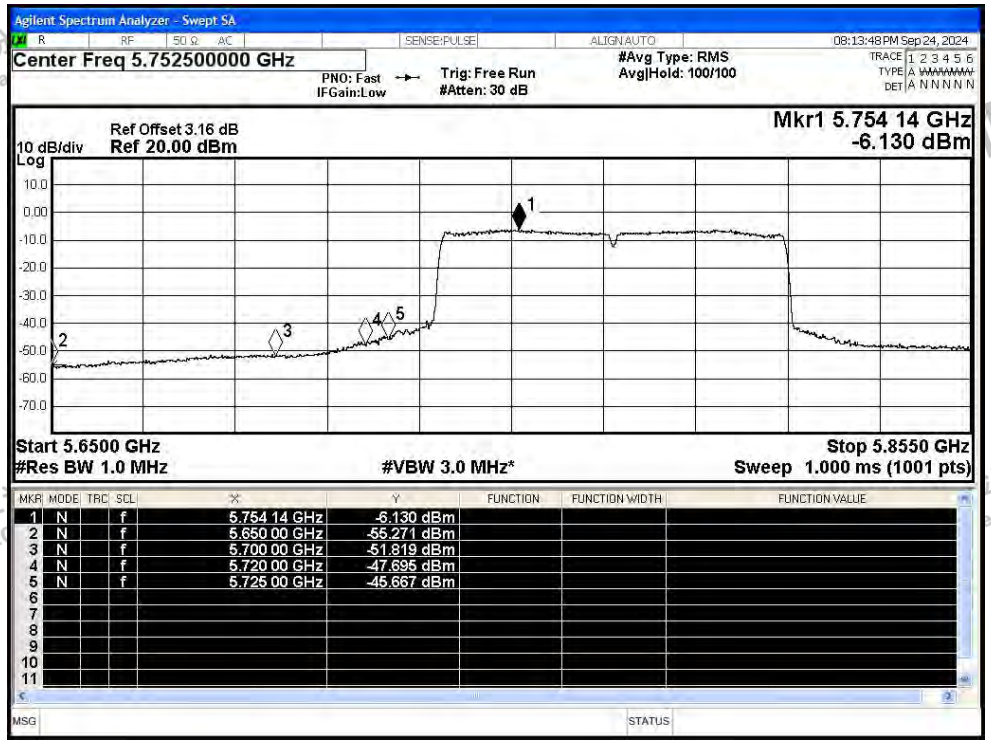
Restrict Band NVNT ac40 5795MHz Ant0 Average



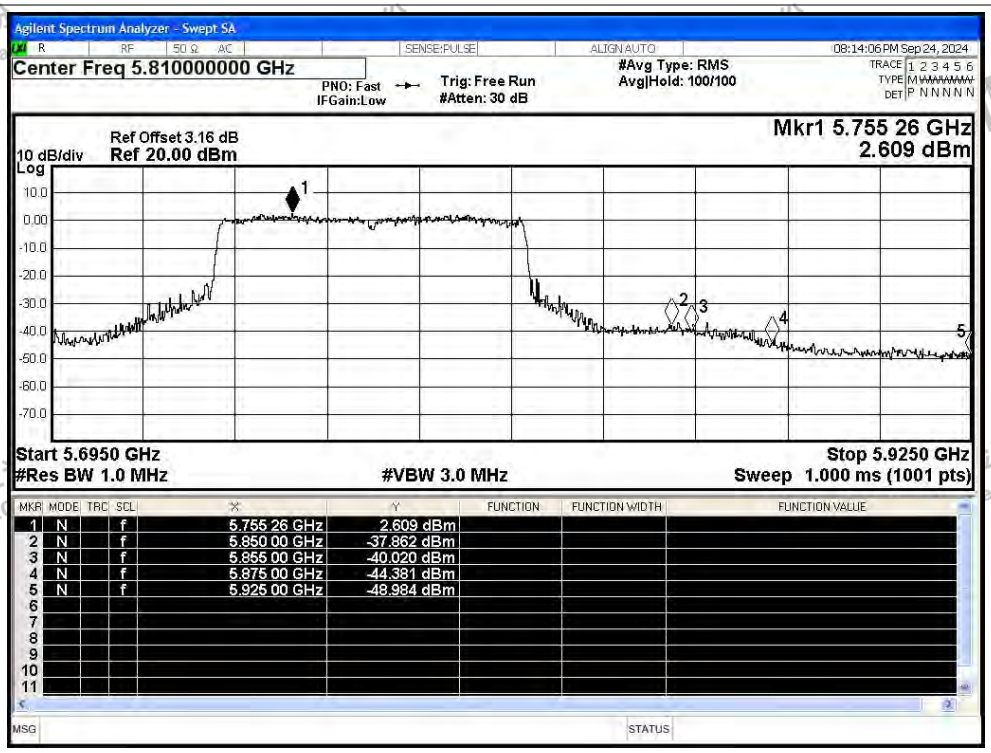
Restrict Band NVNT ac80 5775MHz Ant0 Peak



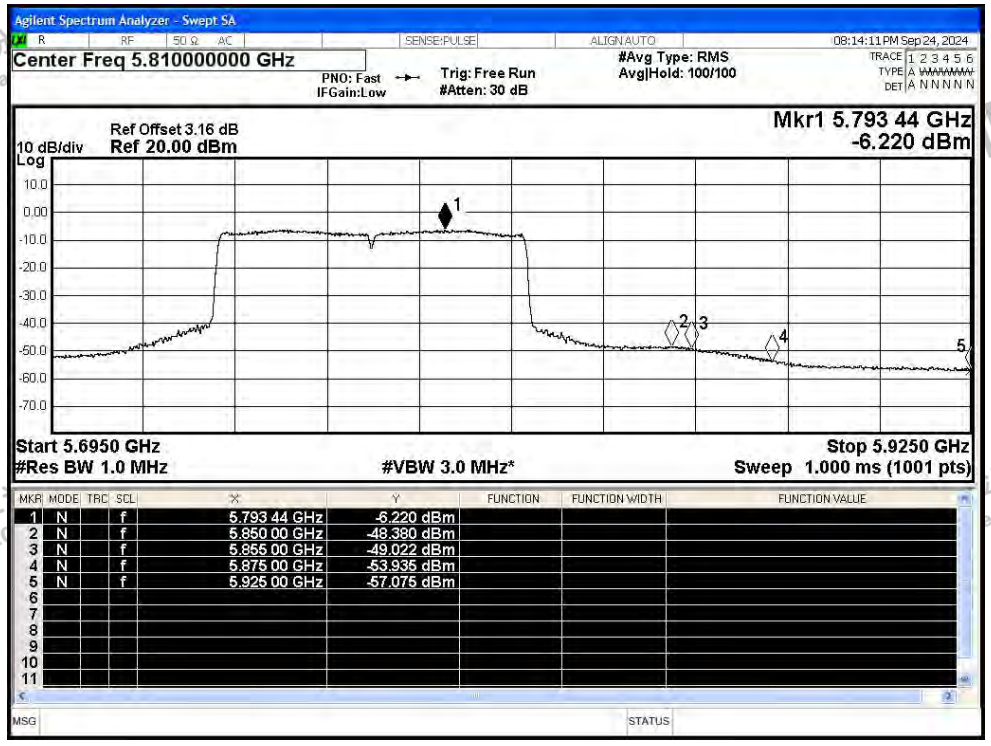
Restrict Band NVNT ac80 5775MHz Ant0 Average



Restrict Band NVNT ac80 5775MHz Ant0 Peak

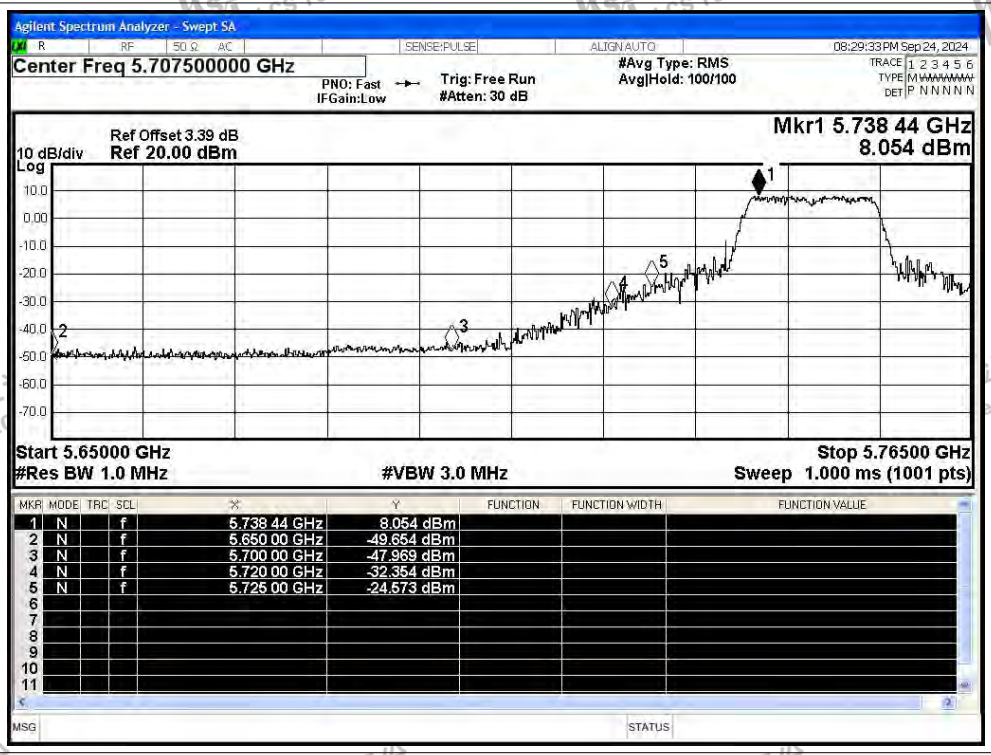


Restrict Band NVNT ac80 5775MHz Ant0 Average

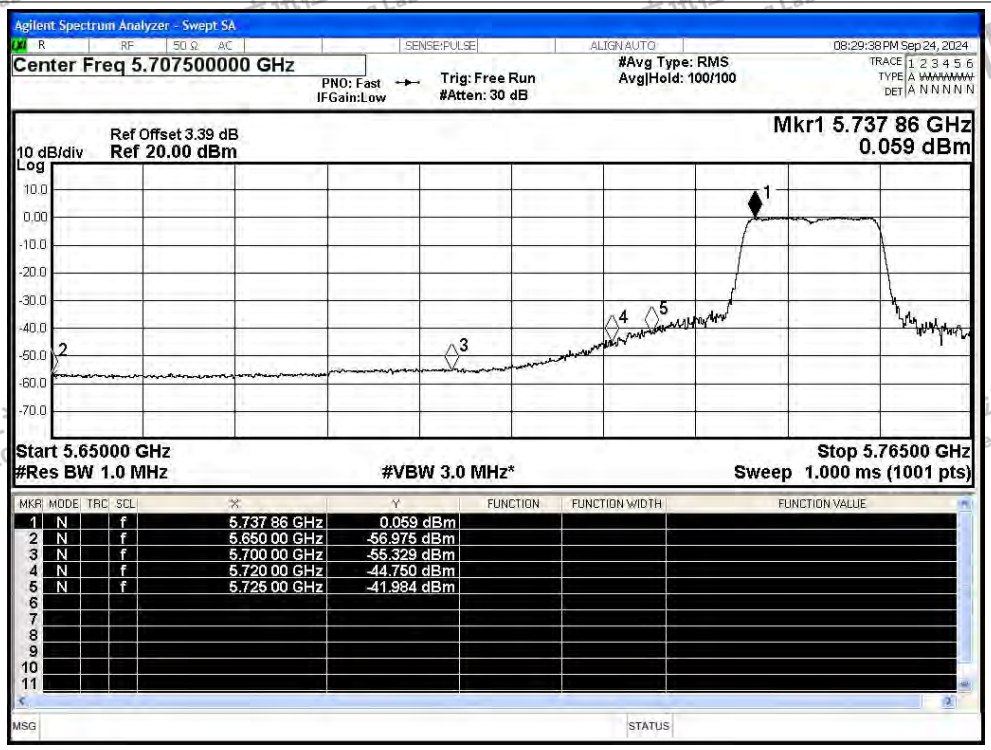


Test Graphs

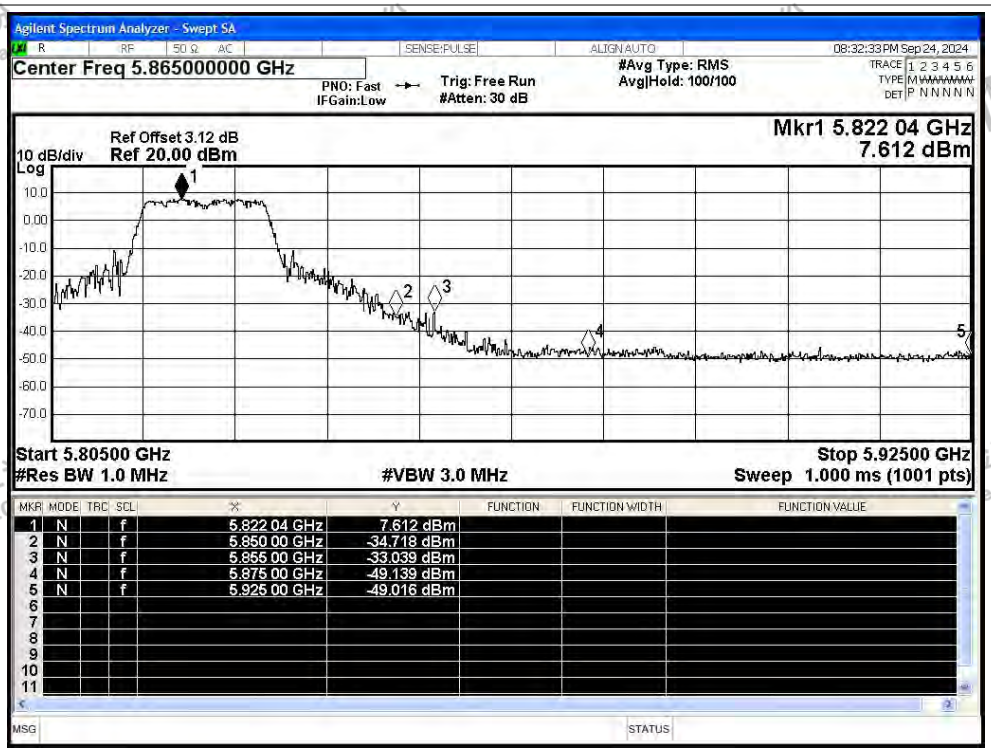
Restrict Band NVNT a 5745MHz Ant1 Peak



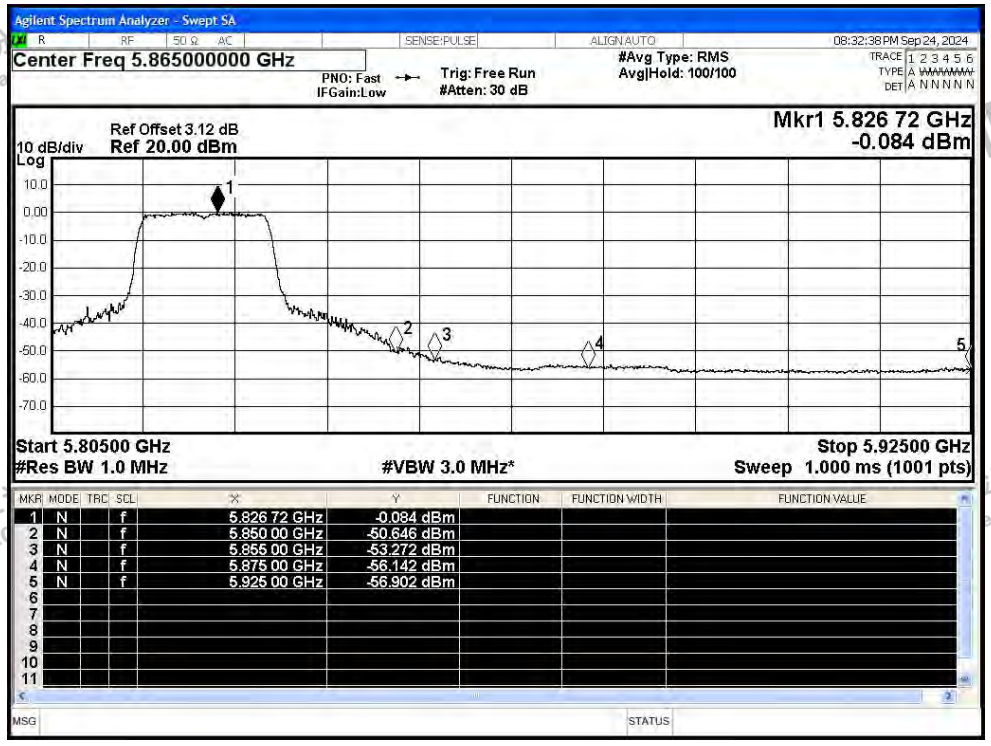
Restrict Band NVNT a 5745MHz Ant1 Average



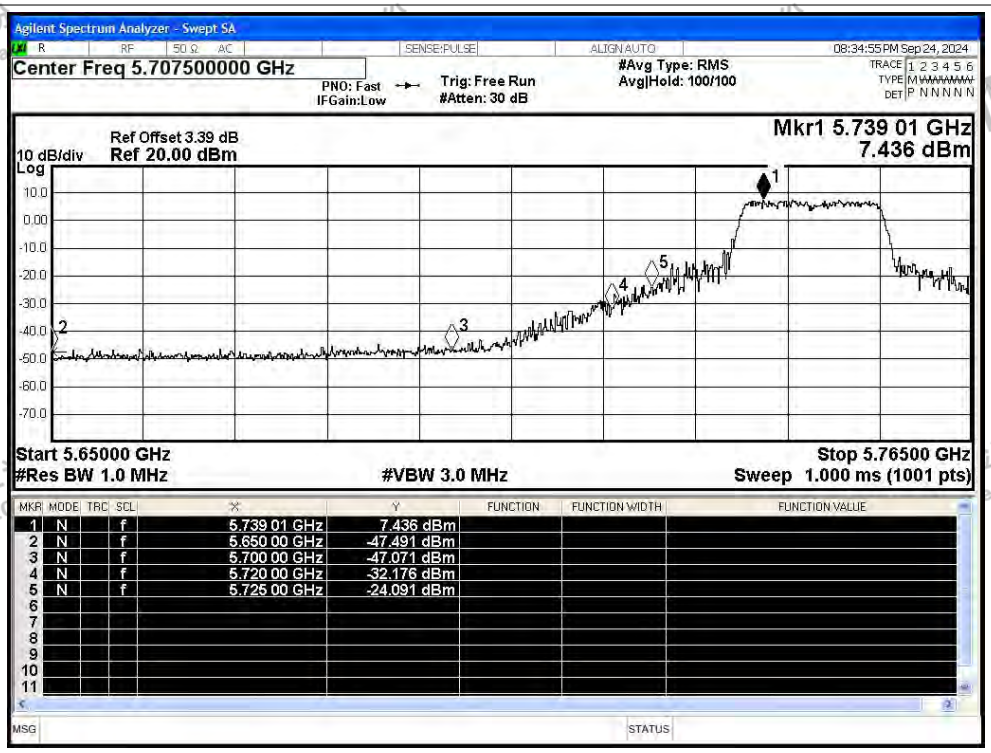
Restrict Band NVNT a 5825MHz Ant1 Peak



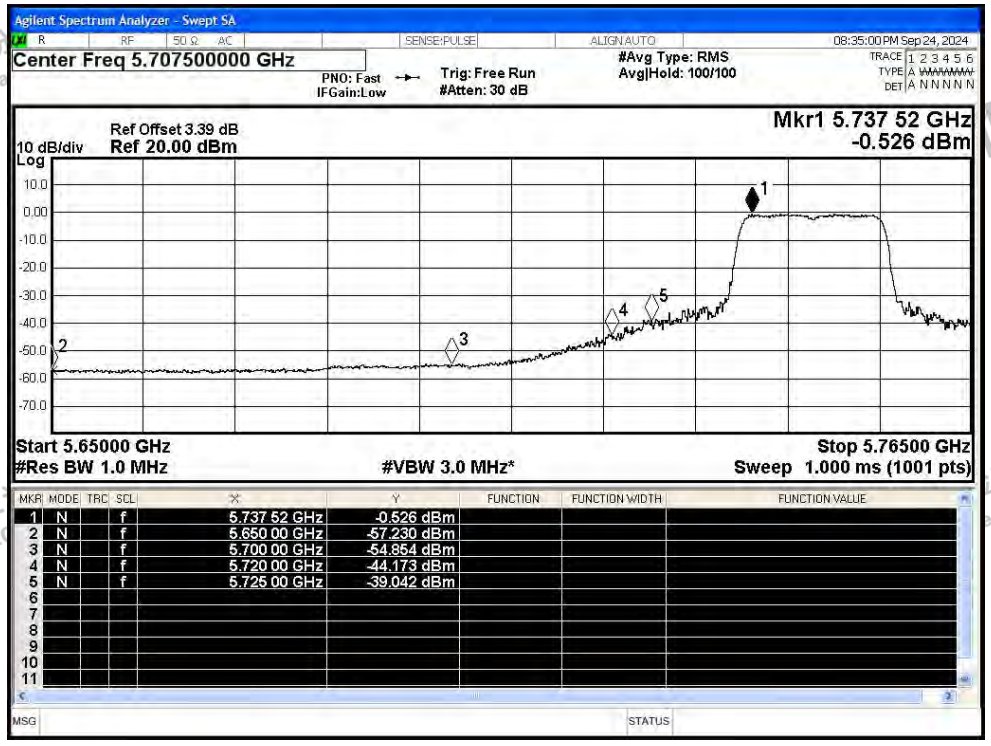
Restrict Band NVNT a 5825MHz Ant1 Average



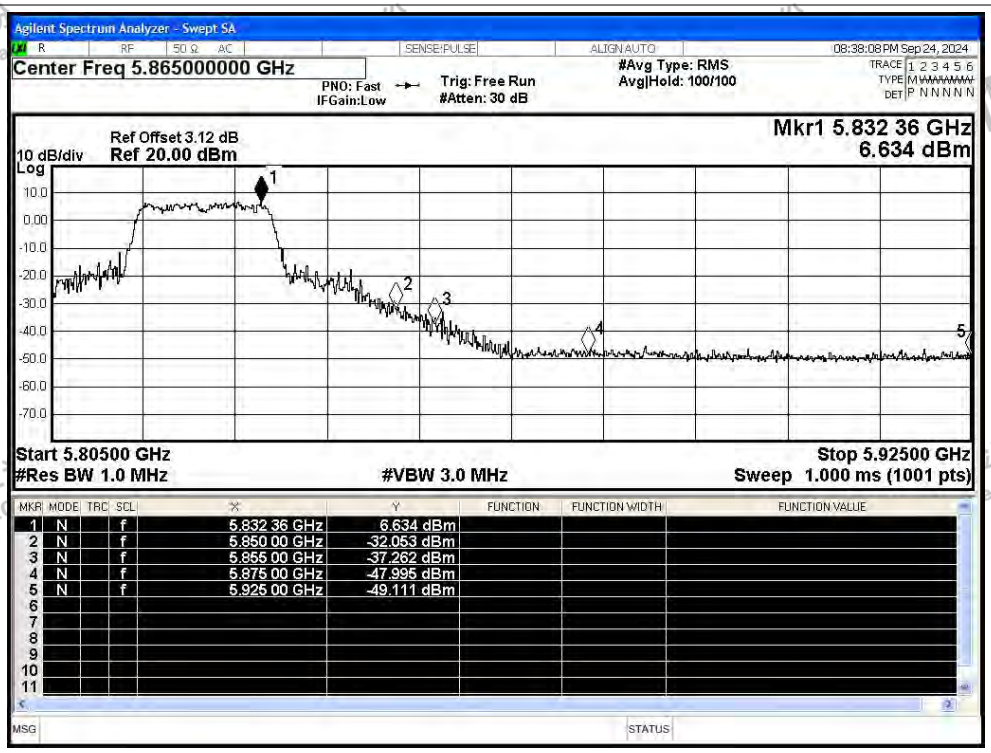
Restrict Band NVNT n20 5745MHz Ant1 Peak



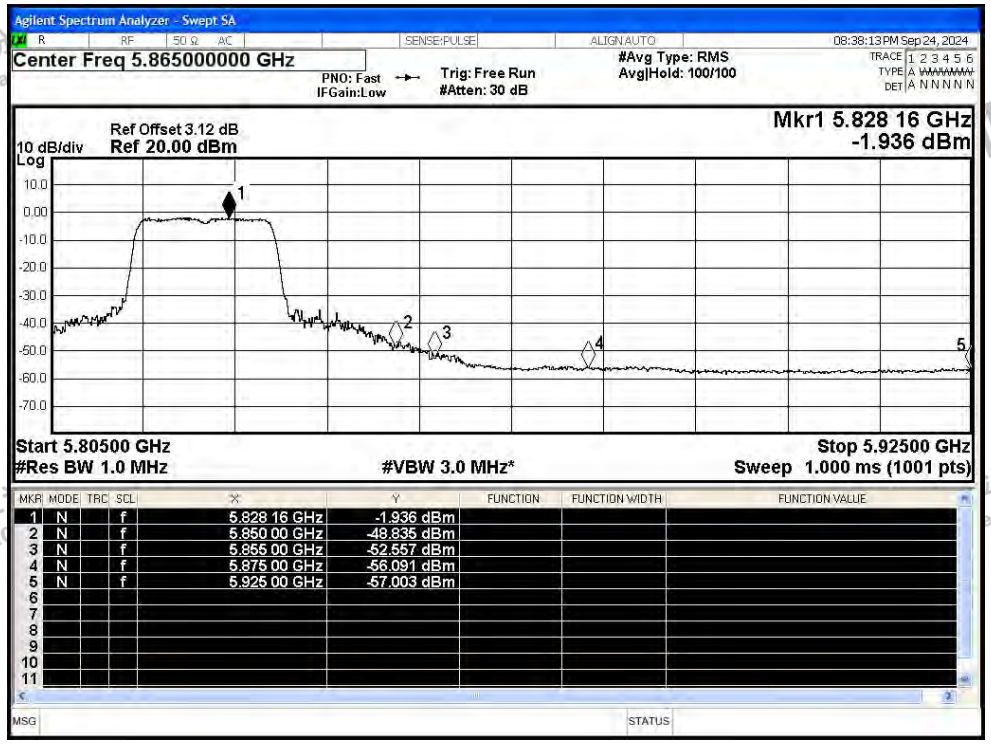
Restrict Band NVNT n20 5745MHz Ant1 Average



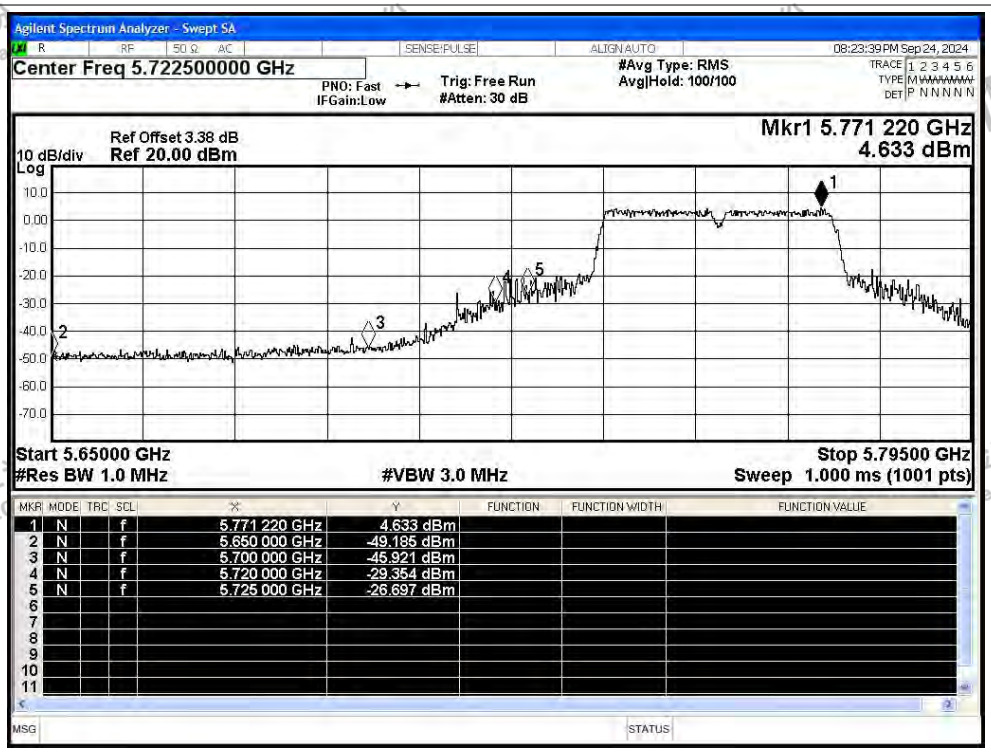
Restrict Band NVNT n20 5825MHz Ant1 Peak



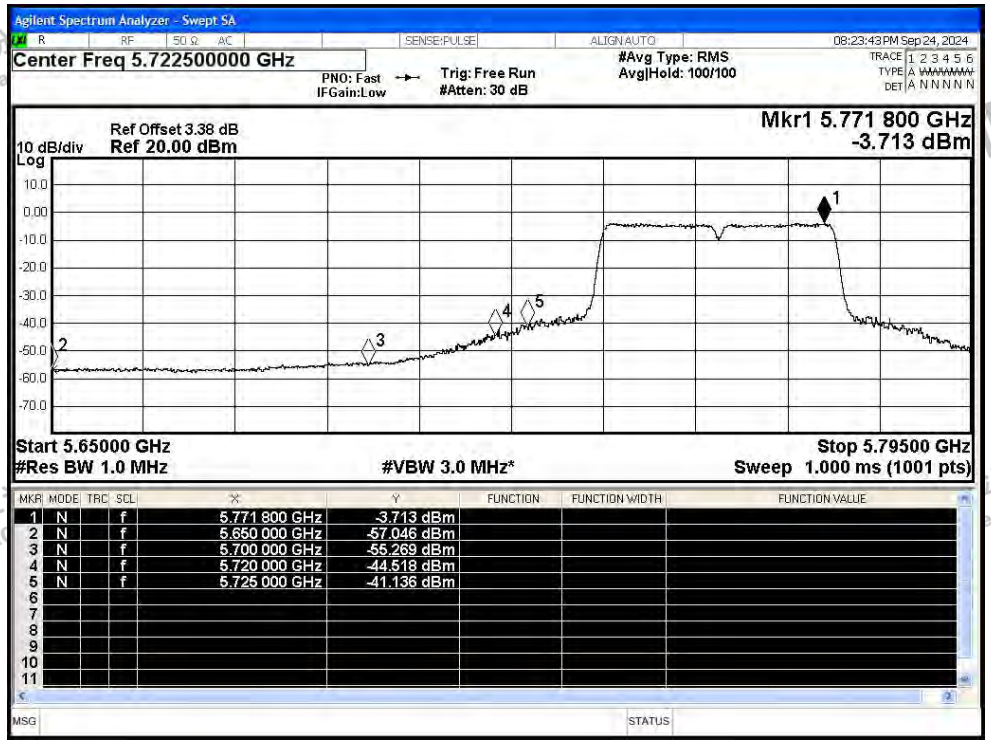
Restrict Band NVNT n20 5825MHz Ant1 Average



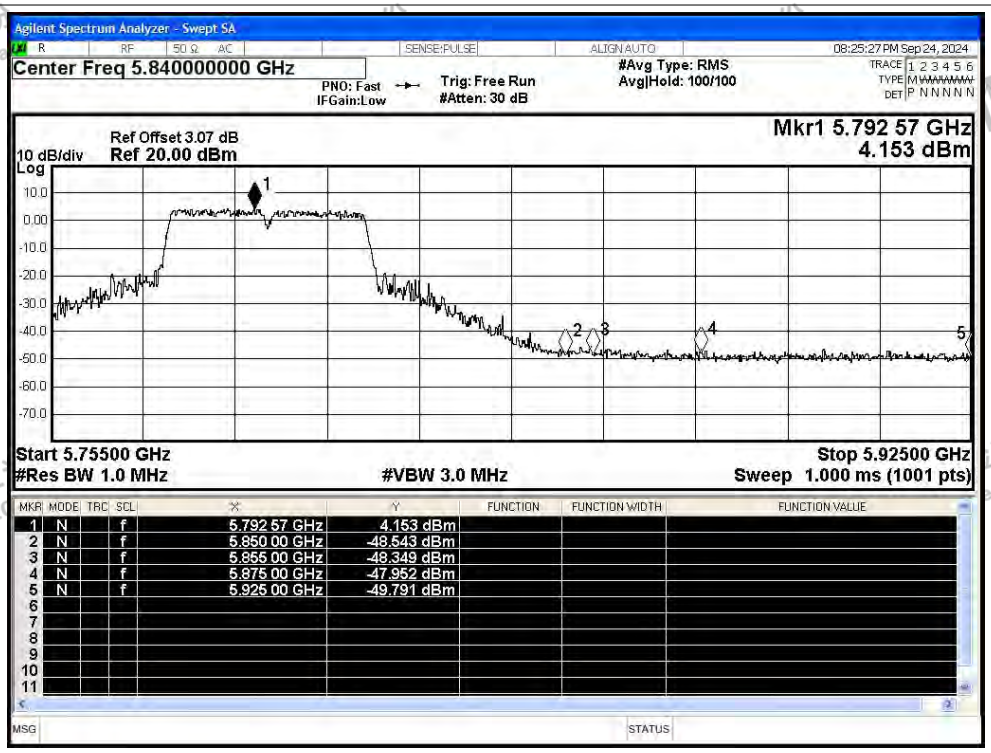
Restrict Band NVNT n40 5755MHz Ant1 Peak



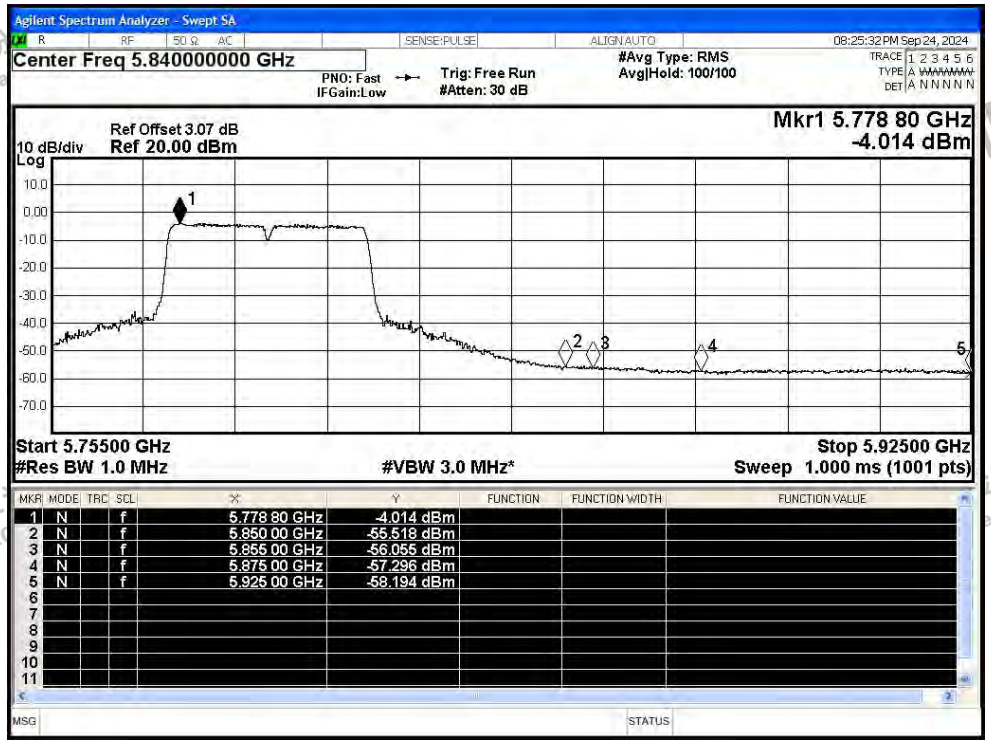
Restrict Band NVNT n40 5755MHz Ant1 Average



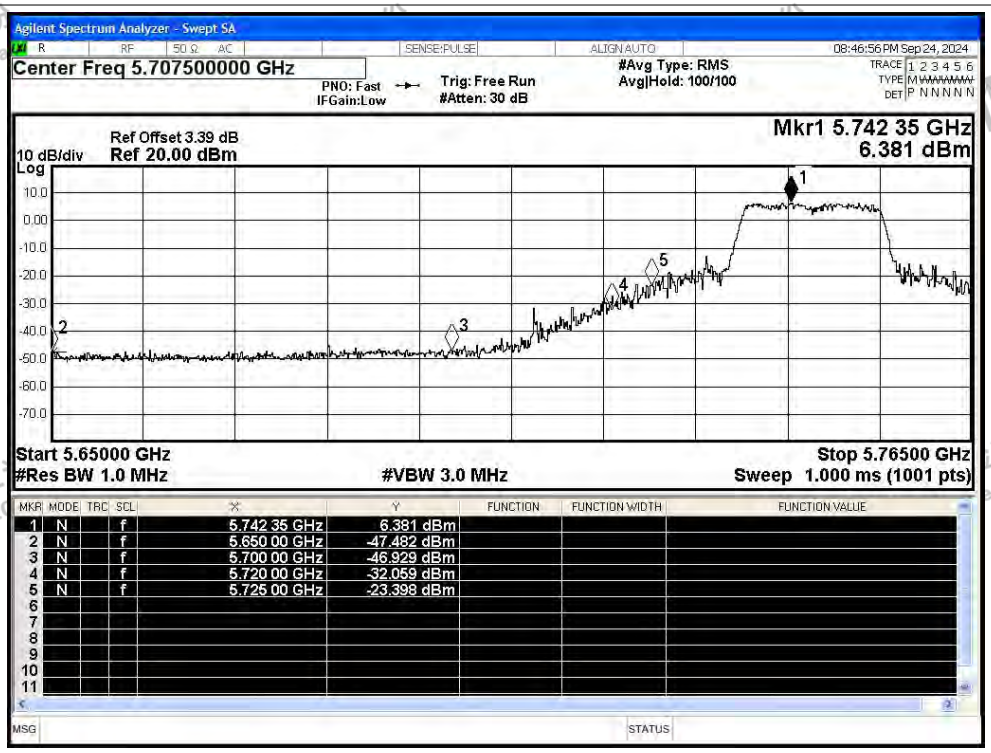
Restrict Band NVNT n40 5795MHz Ant1 Peak



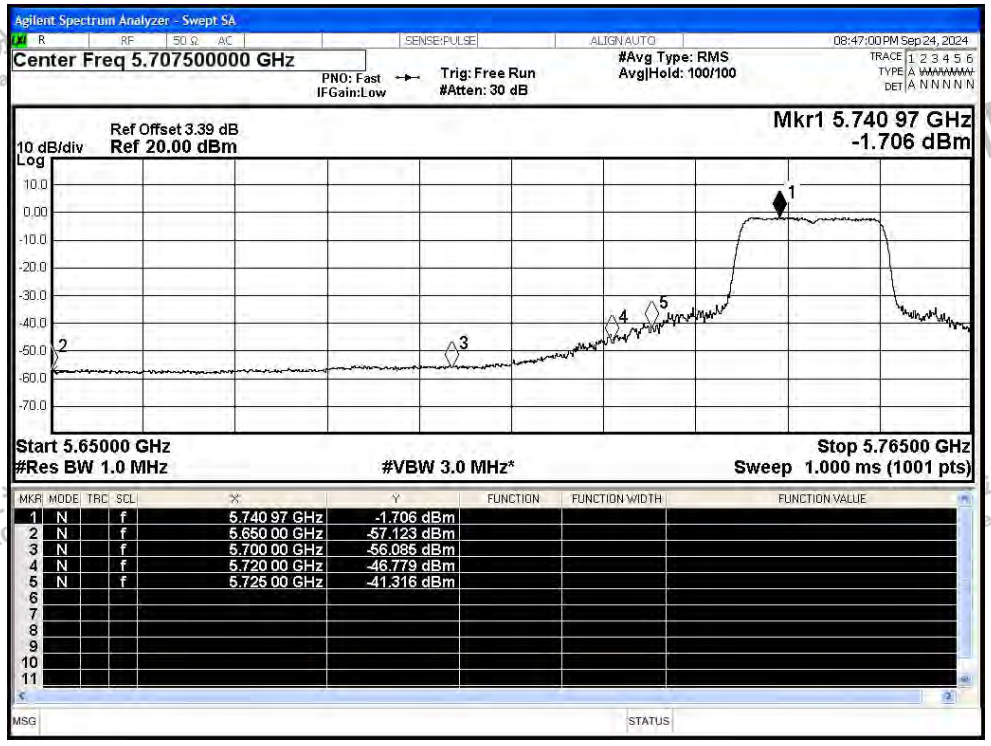
Restrict Band NVNT n40 5795MHz Ant1 Average



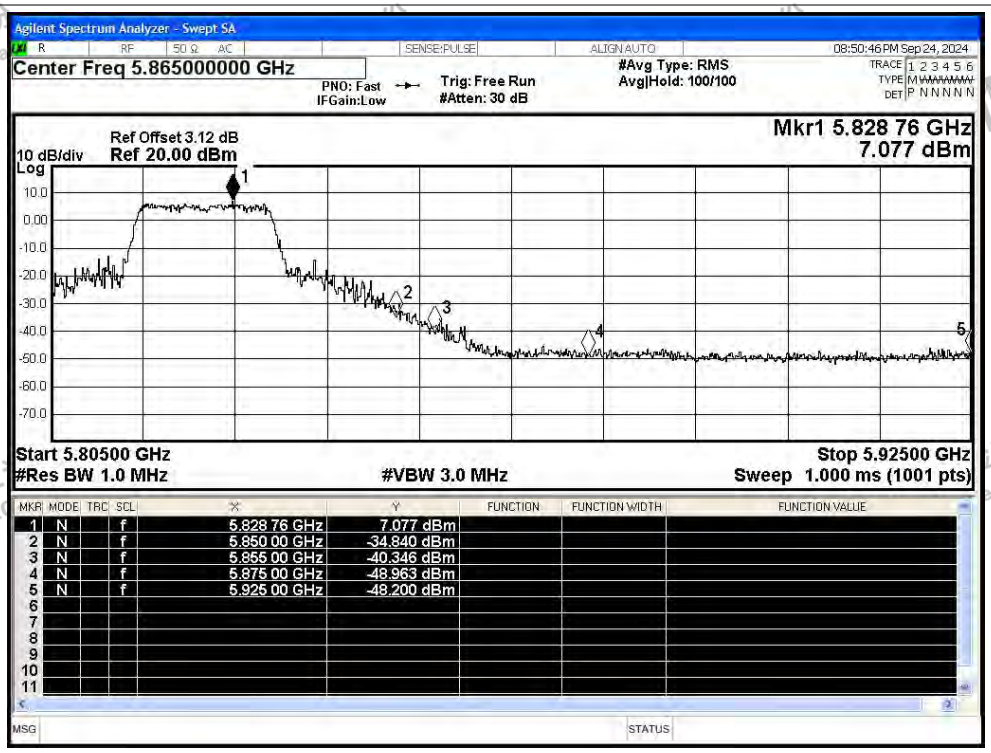
Restrict Band NVNT ac20 5745MHz Ant1 Peak



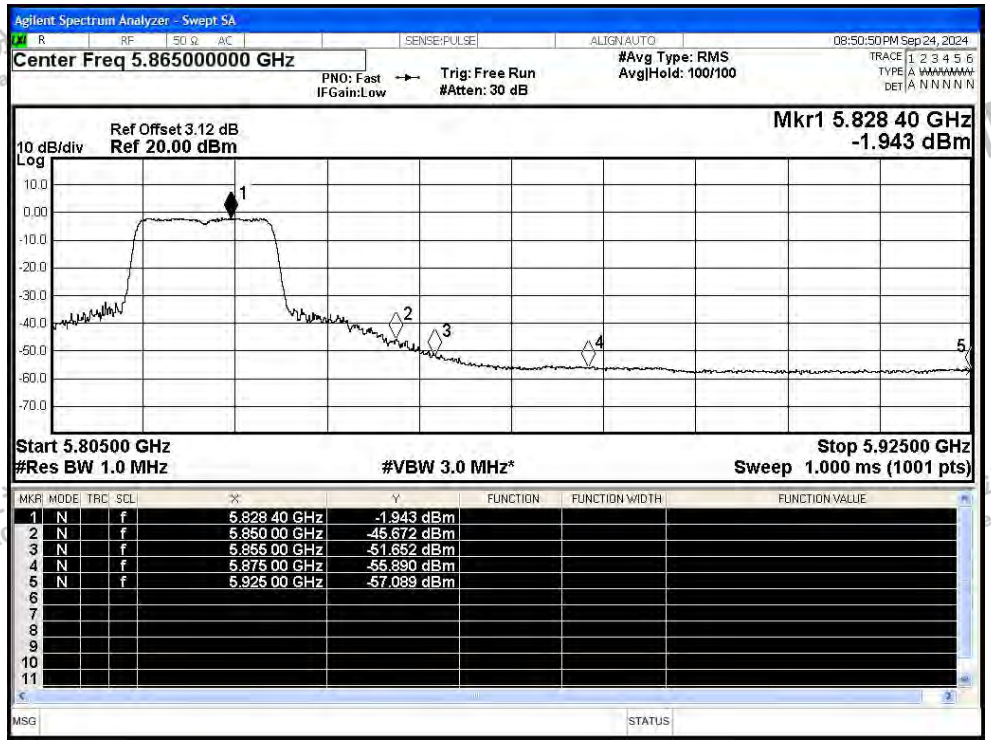
Restrict Band NVNT ac20 5745MHz Ant1 Average



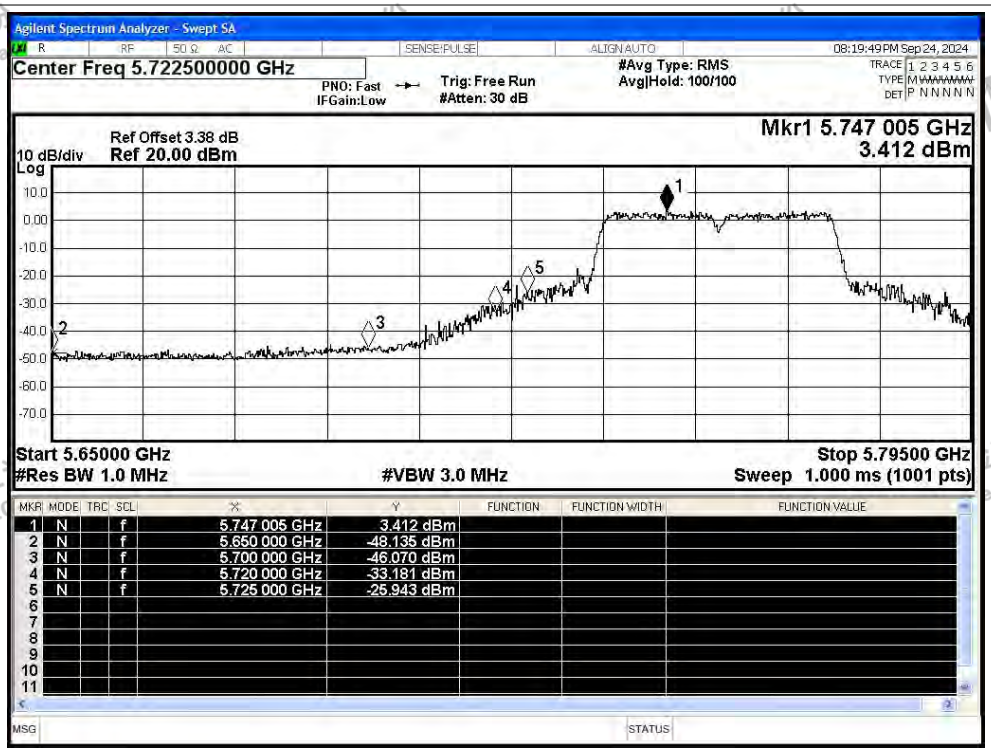
Restrict Band NVNT ac20 5825MHz Ant1 Peak



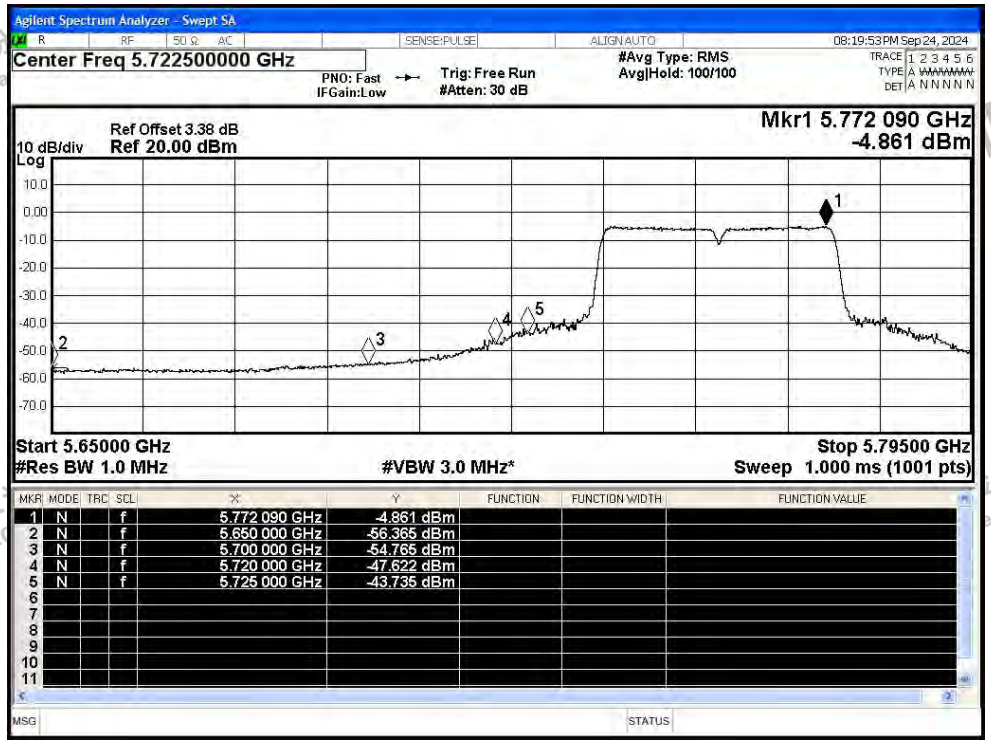
Restrict Band NVNT ac20 5825MHz Ant1 Average



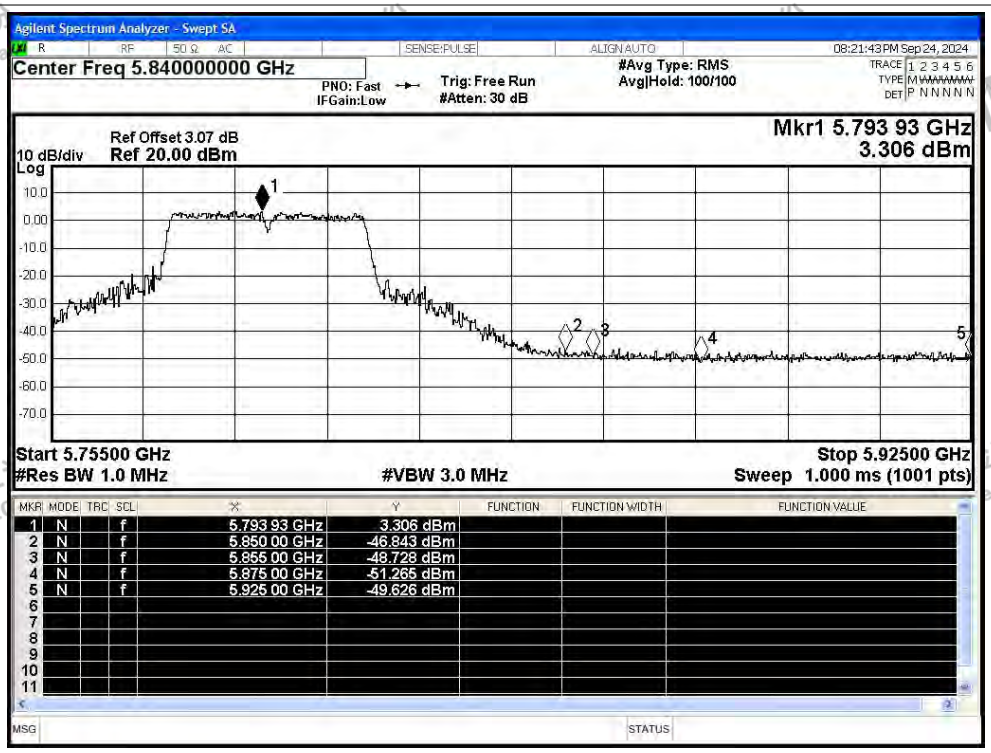
Restrict Band NVNT ac40 5755MHz Ant1 Peak



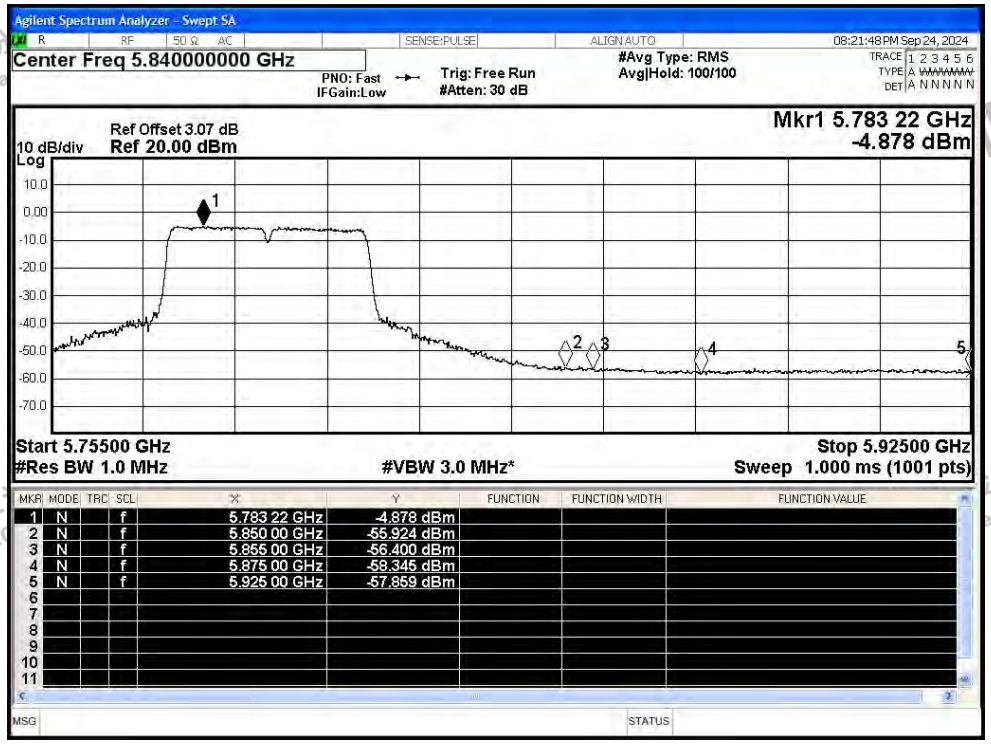
Restrict Band NVNT ac40 5755MHz Ant1 Average



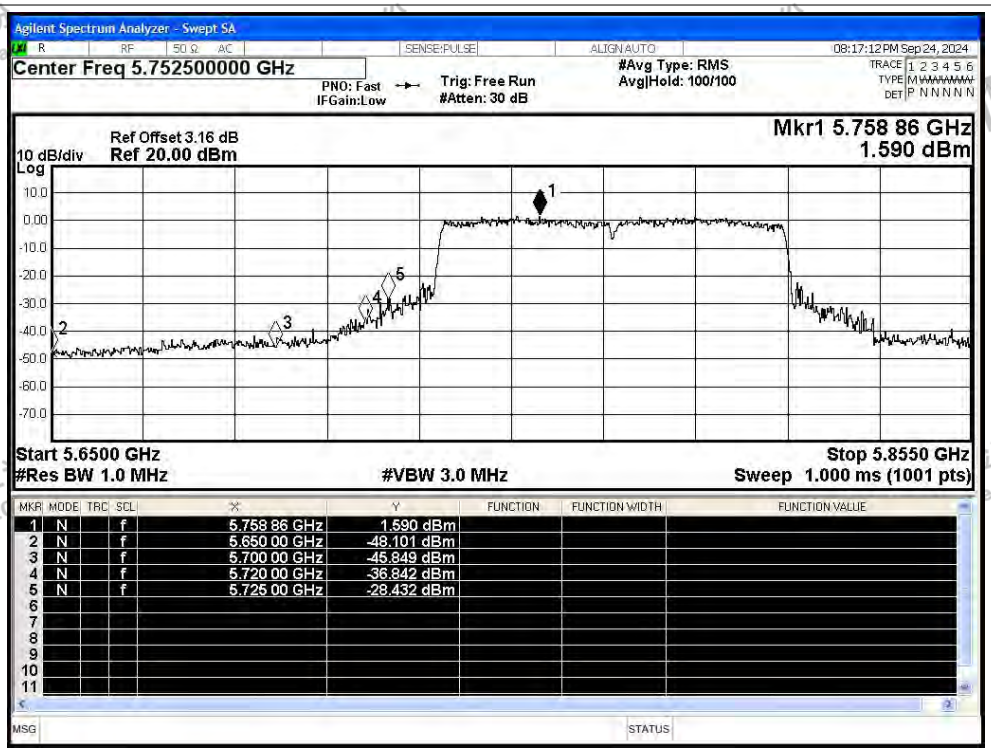
Restrict Band NVNT ac40 5795MHz Ant1 Peak



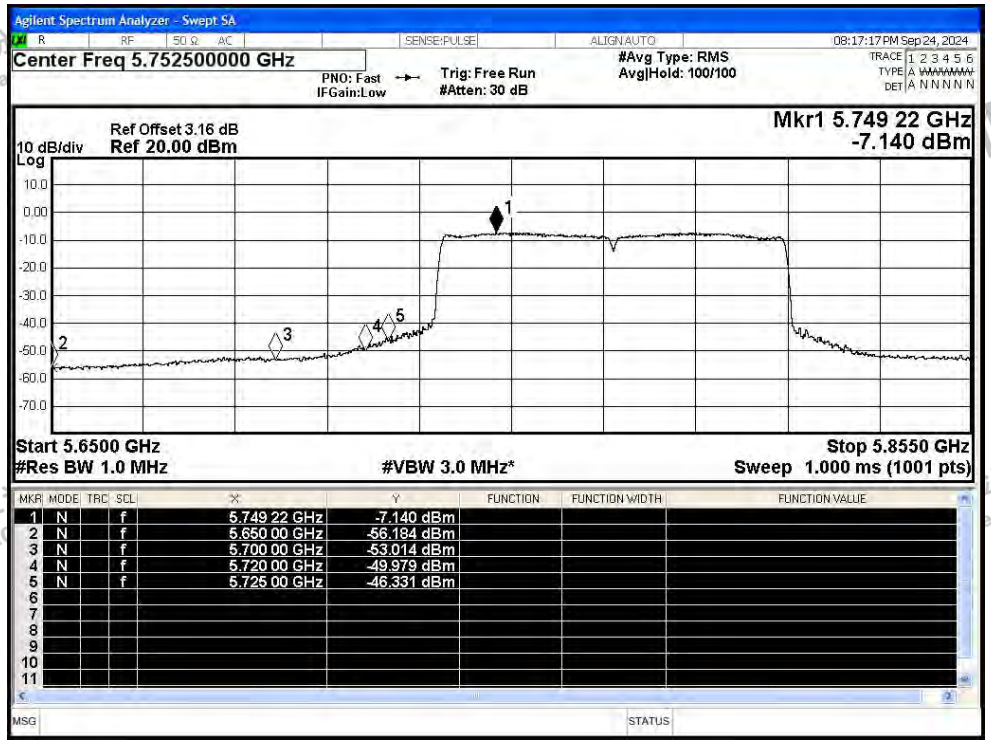
Restrict Band NVNT ac40 5795MHz Ant1 Average



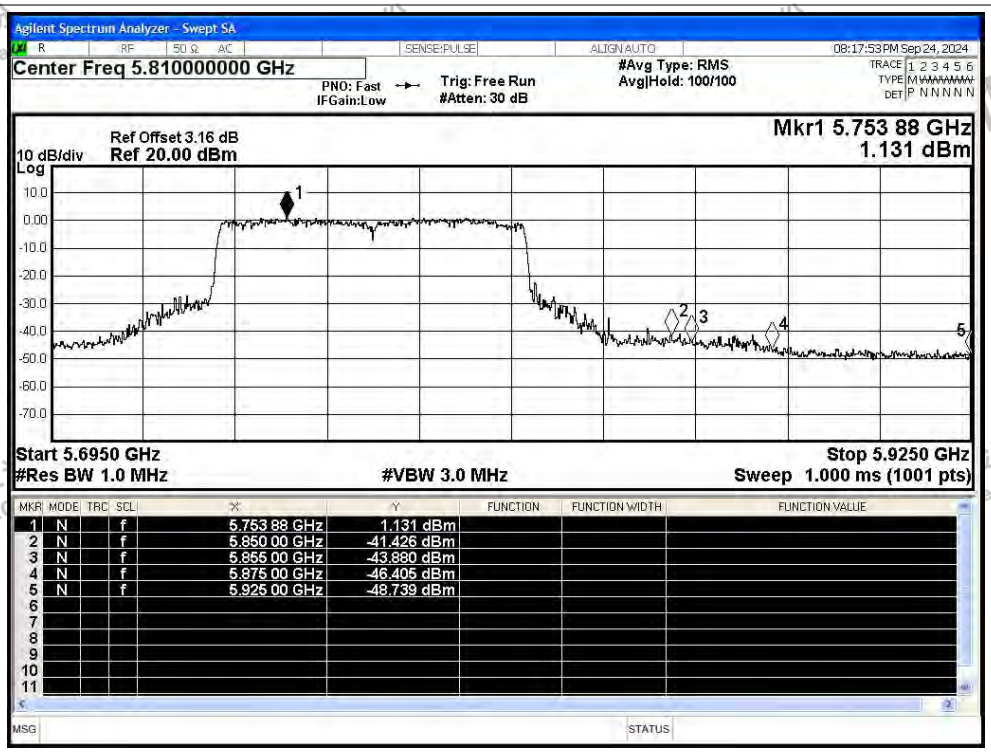
Restrict Band NVNT ac80 5775MHz Ant1 Peak



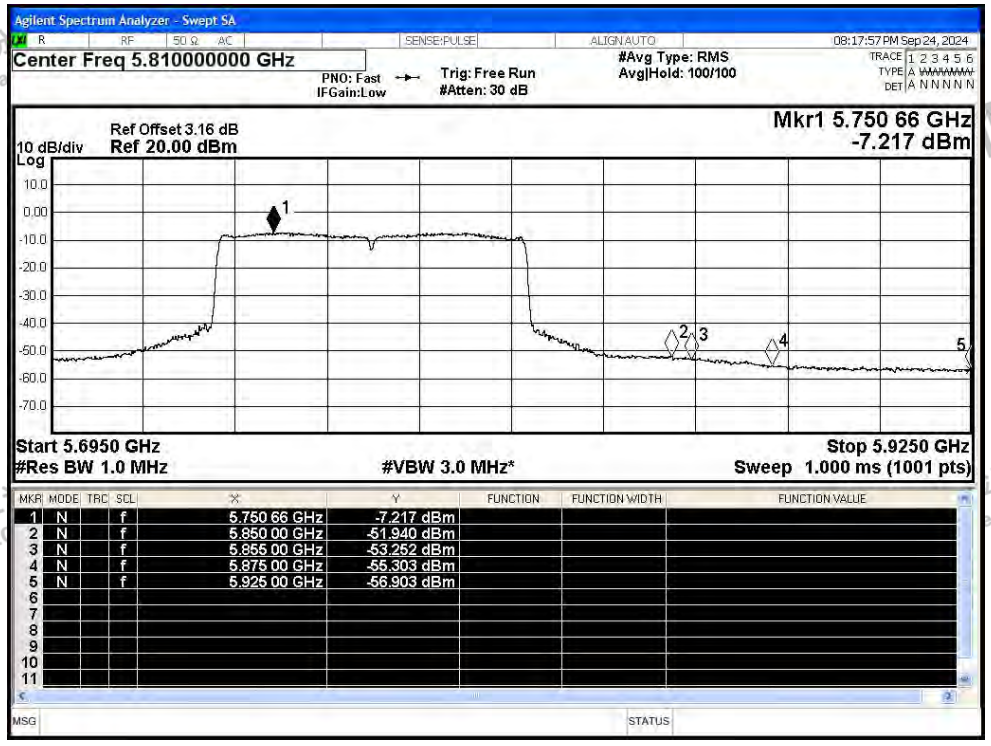
Restrict Band NVNT ac80 5775MHz Ant1 Average



Restrict Band NVNT ac80 5775MHz Ant1 Peak



Restrict Band NVNT ac80 5775MHz 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	Ant0	5744.98	-20000	-3.48	25	Pass
NVNT	a	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	a	5825	Ant0	5825	0	0	25	Pass
NVNT	n20	5745	Ant0	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	n20	5825	Ant0	5824.98	-20000	-3.43	25	Pass
NVNT	n40	5755	Ant0	5755	0	0	25	Pass
NVNT	n40	5795	Ant0	5795	0	0	25	Pass
NVNT	ac20	5745	Ant0	5745	0	0	25	Pass
NVNT	ac20	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant0	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant0	5754.96	-40000	-6.95	25	Pass
NVNT	ac40	5795	Ant0	5794.96	-40000	-6.9	25	Pass
NVNT	ac80	5775	Ant0	5775	0	0	25	Pass