



Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Hyundai Mini PC

Test Model: HTN4020MPC

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





E.1 -6dB Bandwidth

Condition	Mode: MIMO	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.07	≥ 0.5	Pass
NVNT	a	5785	Ant1	15.107	≥ 0.5	Pass
NVNT	a	5825	Ant1	14.219	≥ 0.5	Pass
NVNT	n20	5745	Ant1	12.667	≥ 0.5	Pass
NVNT	n20	5785	Ant1	15.119	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.01	≥ 0.5	Pass
NVNT	n40	5755	Ant1	32.568	≥ 0.5	Pass
NVNT	n40	5795	Ant1	31.277	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	13.875	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	15.05	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	14.185	≥ 0.5	Pass
NVNT	ac40	5755	Ant1	28.855	≥ 0.5	Pass
NVNT	ac40	5795	Ant1	33.748	≥ 0.5	Pass
NVNT	ac80	5775	Ant1	75.061	≥ 0.5	Pass

Condition	Mode: MIMO	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant2	15.71	≥ 0.5	Pass
NVNT	a	5785	Ant2	15.003	≥ 0.5	Pass
NVNT	a	5825	Ant2	14.446	≥ 0.5	Pass
NVNT	n20	5745	Ant2	16.672	≥ 0.5	Pass
NVNT	n20	5785	Ant2	15.11	≥ 0.5	Pass
NVNT	n20	5825	Ant2	17.23	≥ 0.5	Pass
NVNT	n40	5755	Ant2	31.319	≥ 0.5	Pass
NVNT	n40	5795	Ant2	30.032	≥ 0.5	Pass
NVNT	ac20	5745	Ant2	14.999	≥ 0.5	Pass
NVNT	ac20	5785	Ant2	15.702	≥ 0.5	Pass
NVNT	ac20	5825	Ant2	15.927	≥ 0.5	Pass
NVNT	ac40	5755	Ant2	31.315	≥ 0.5	Pass
NVNT	ac40	5795	Ant2	31.279	≥ 0.5	Pass
NVNT	ac80	5775	Ant2	70.096	≥ 0.5	Pass

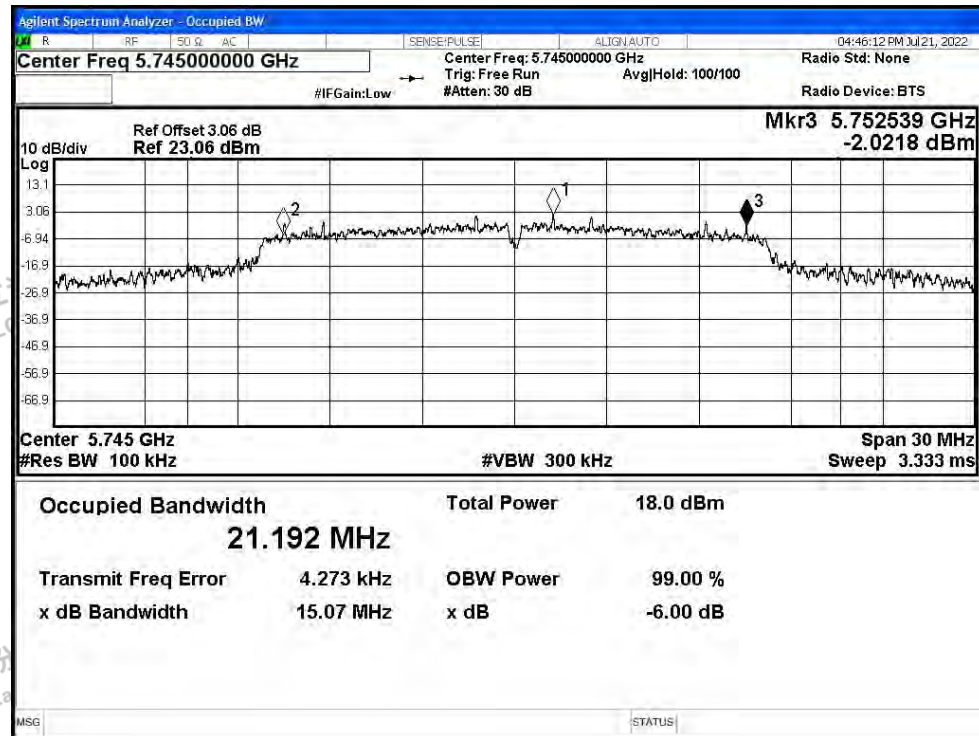




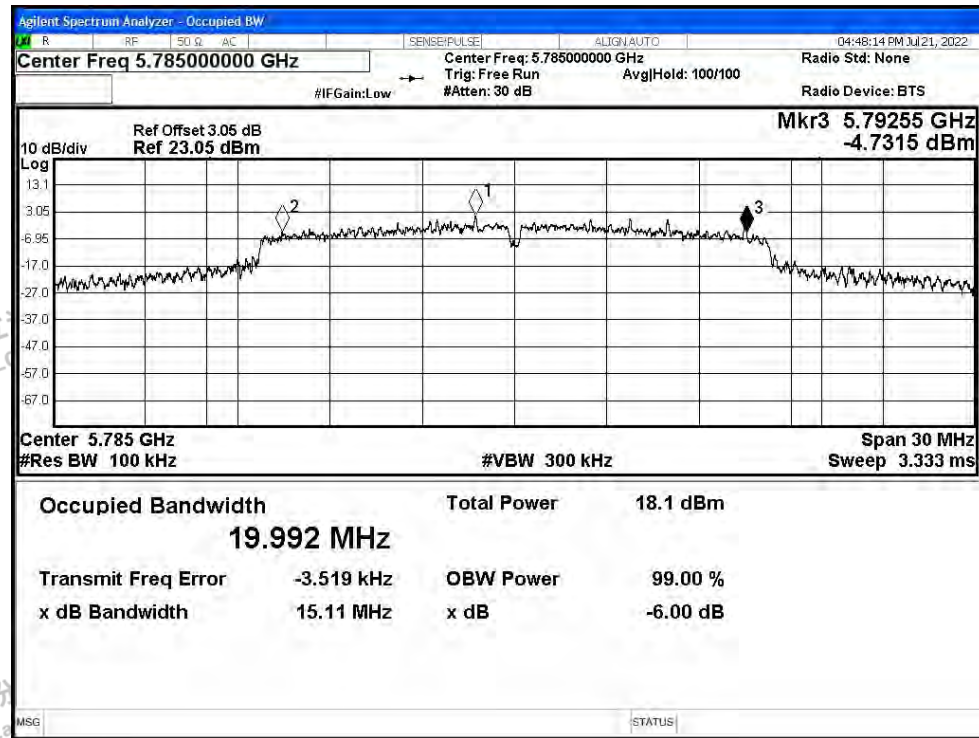
ANT1:

Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

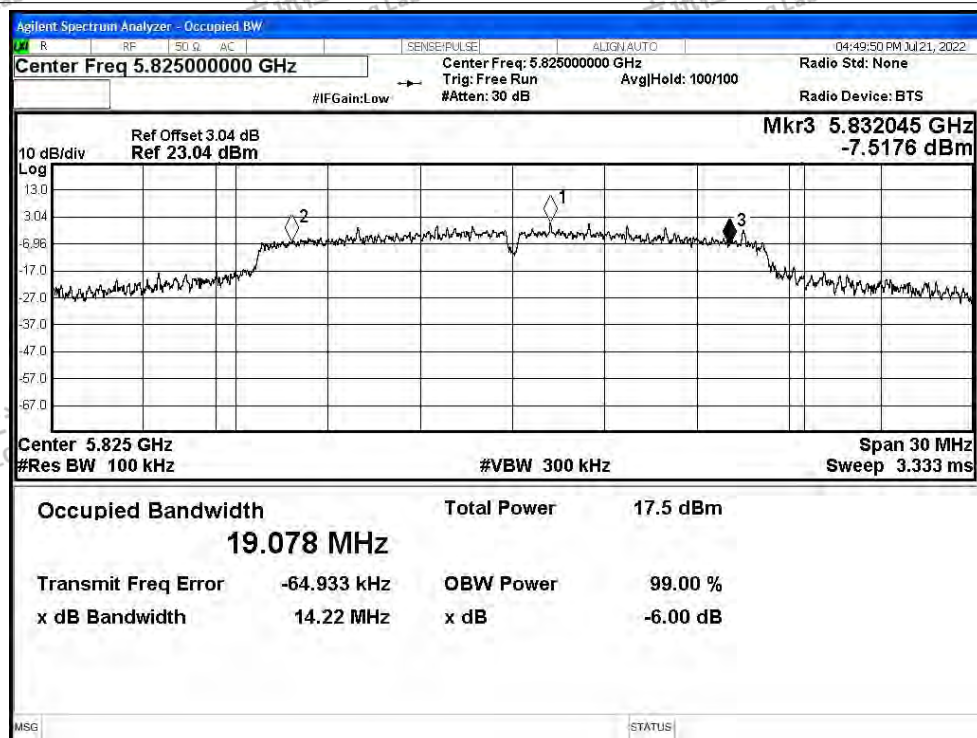


-6dB Bandwidth NVNT a 5785MHz Ant1

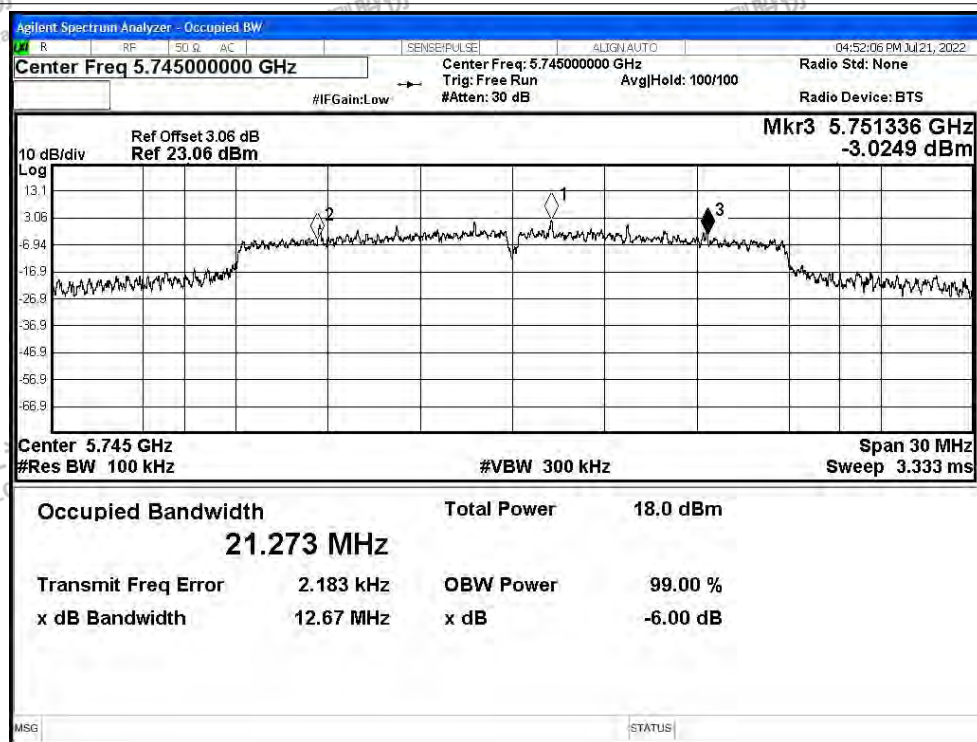




-6dB Bandwidth NVNT a 5825MHz Ant1

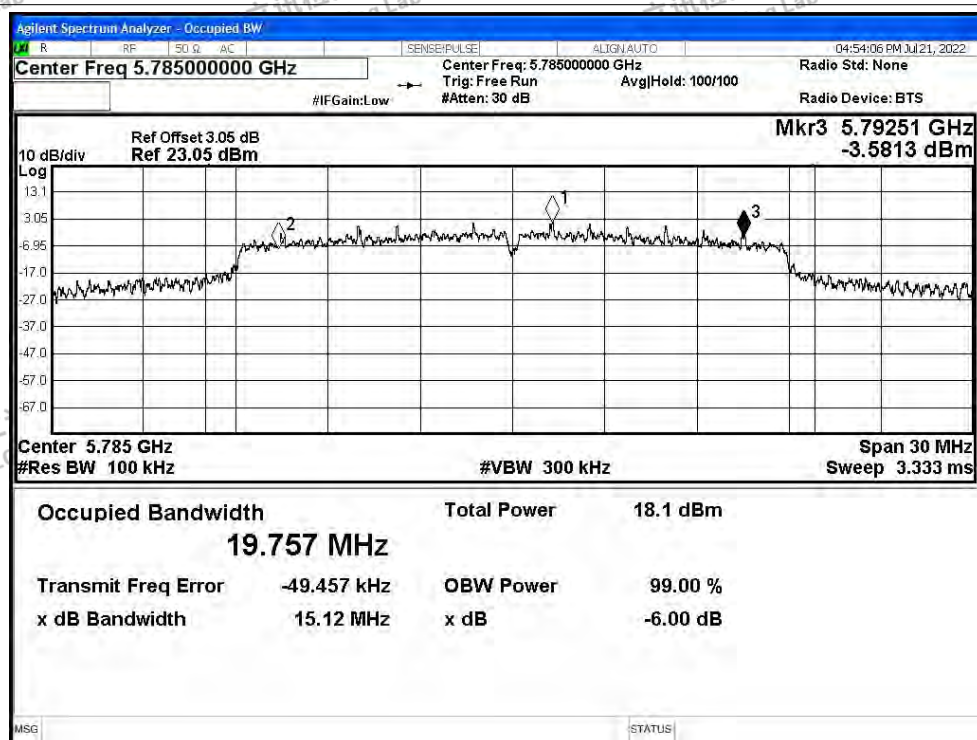


-6dB Bandwidth NVNT n20 5745MHz Ant1

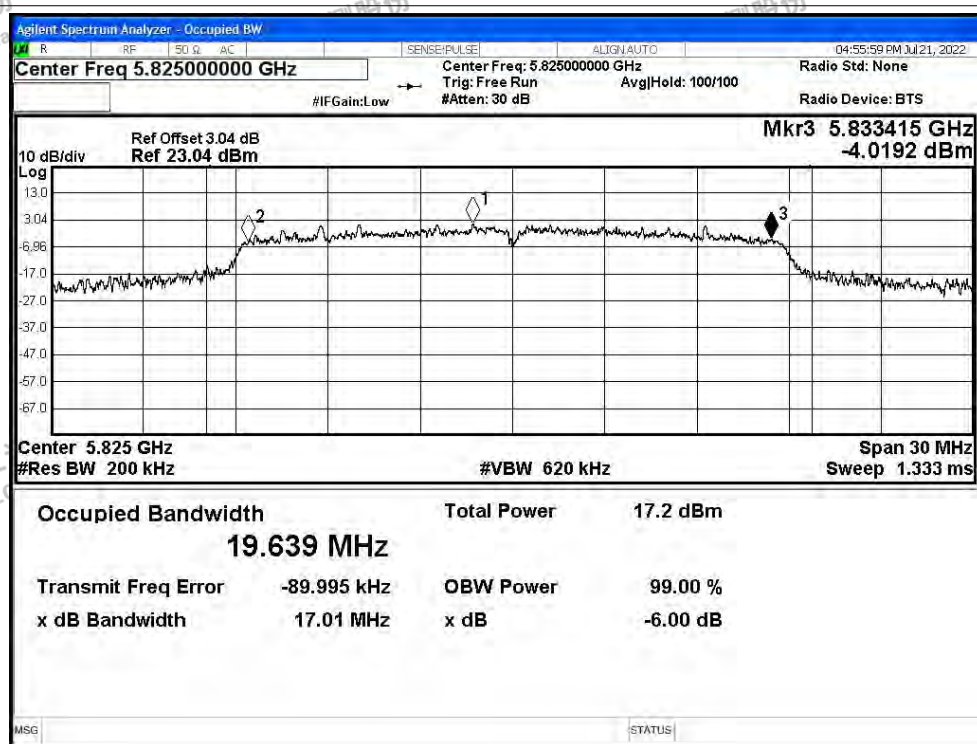




-6dB Bandwidth NVNT n20 5785MHz Ant1

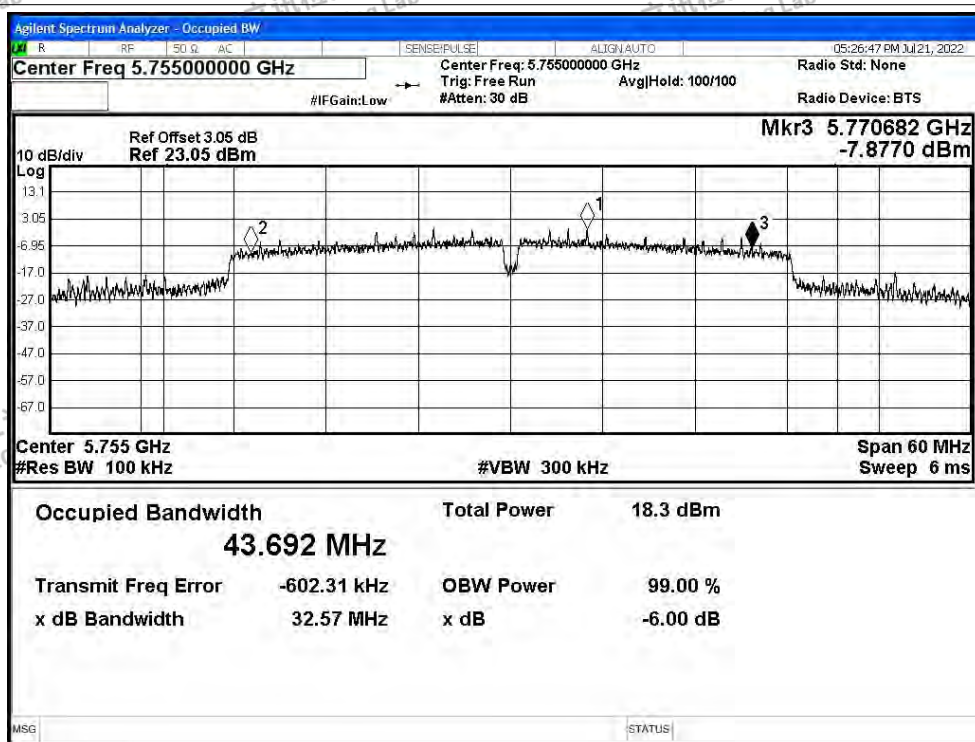


-6dB Bandwidth NVNT n20 5825MHz Ant1

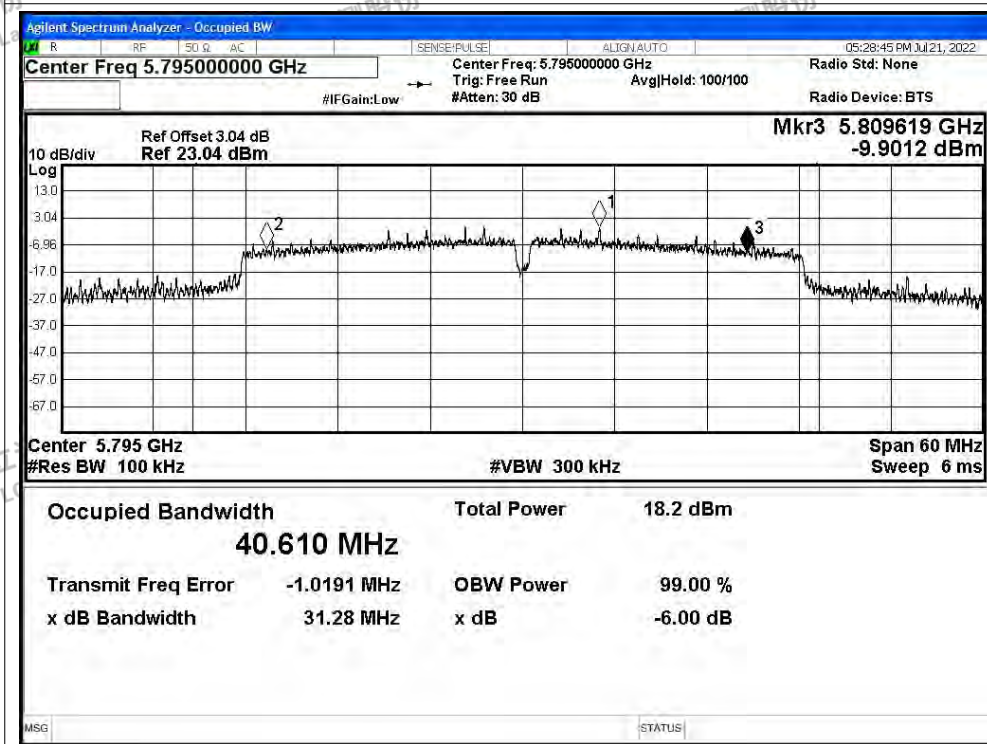




-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



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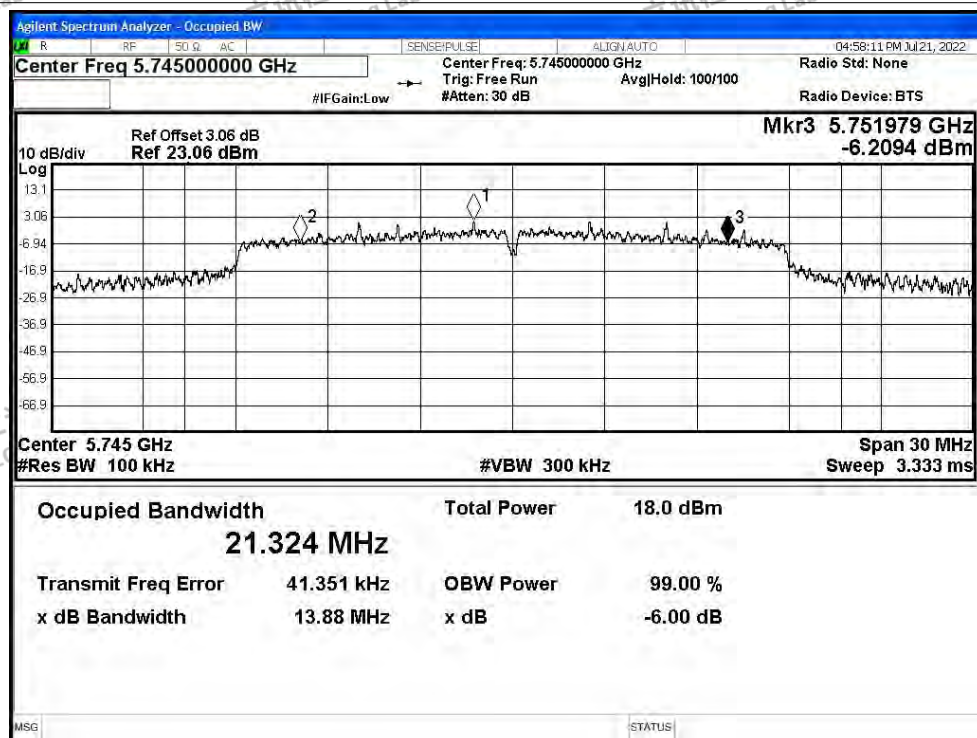
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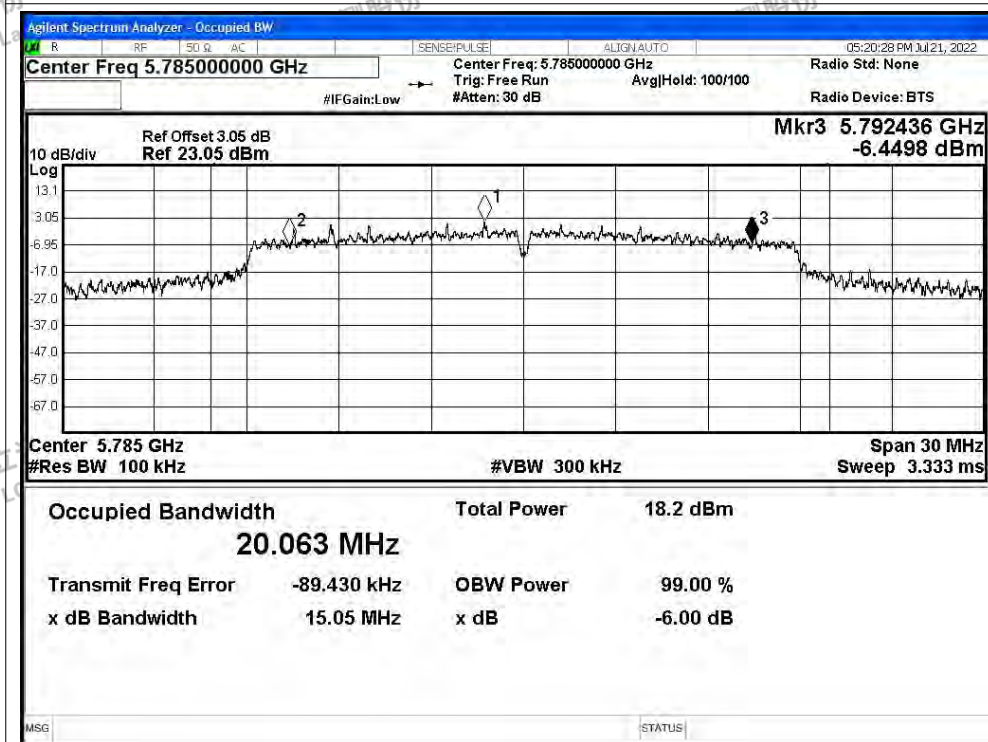
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-6dB Bandwidth NVNT ac20 5745MHz Ant1

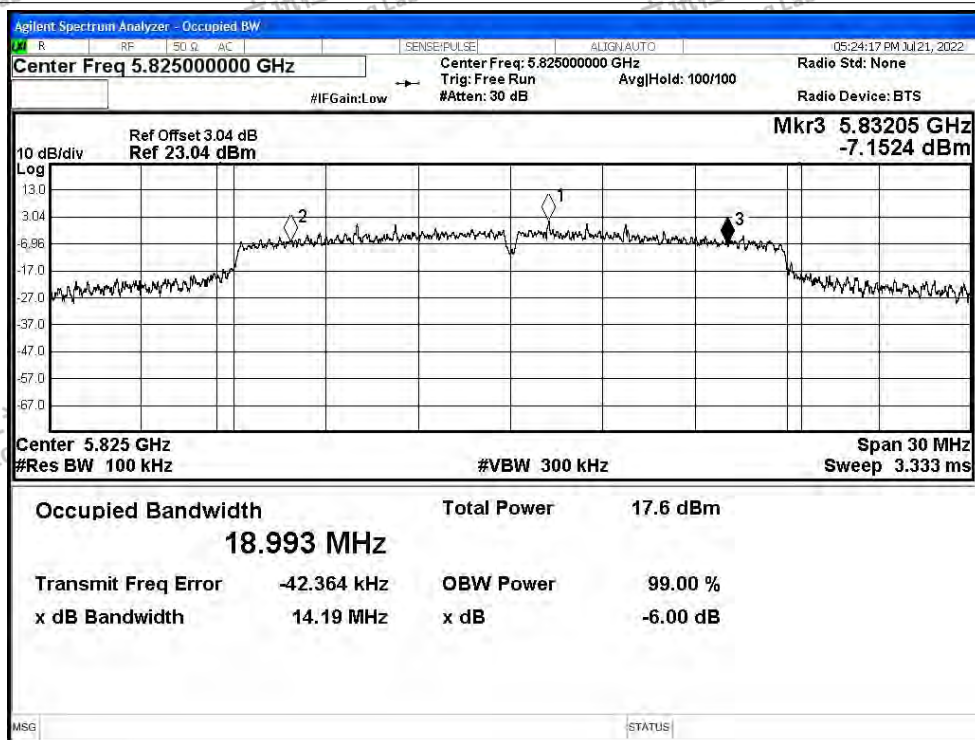


-6dB Bandwidth NVNT ac20 5785MHz Ant1

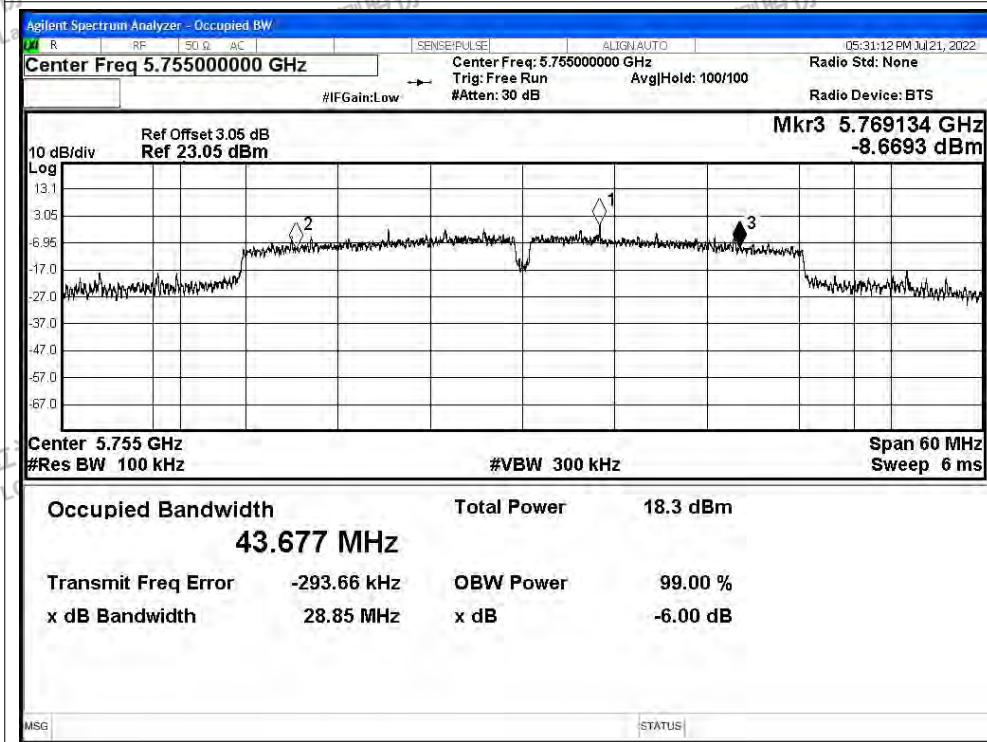




-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



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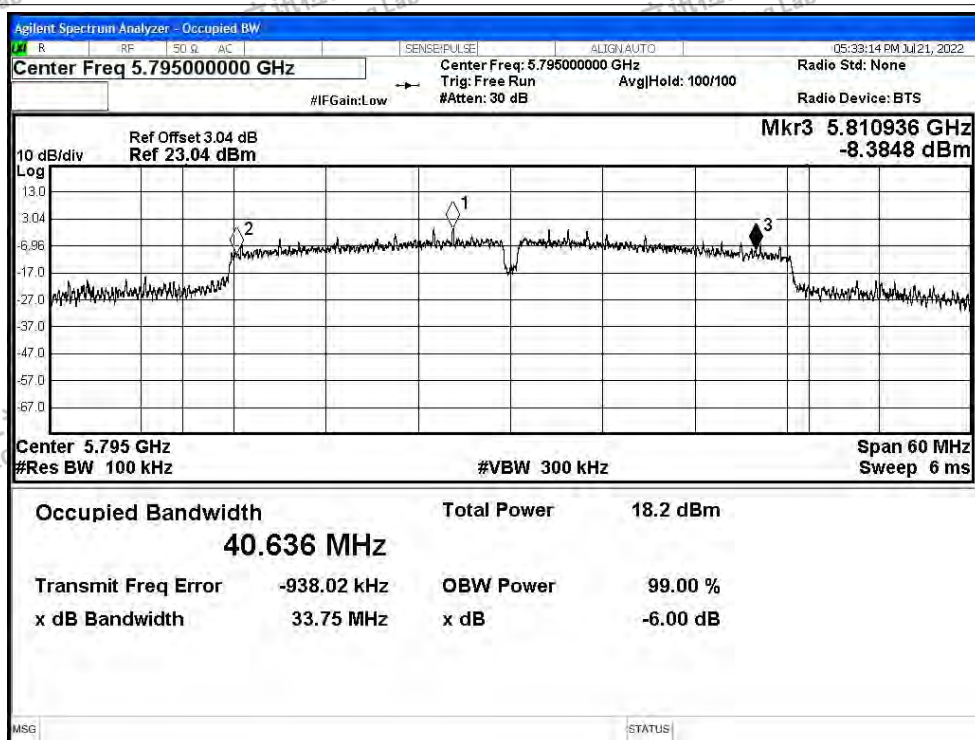
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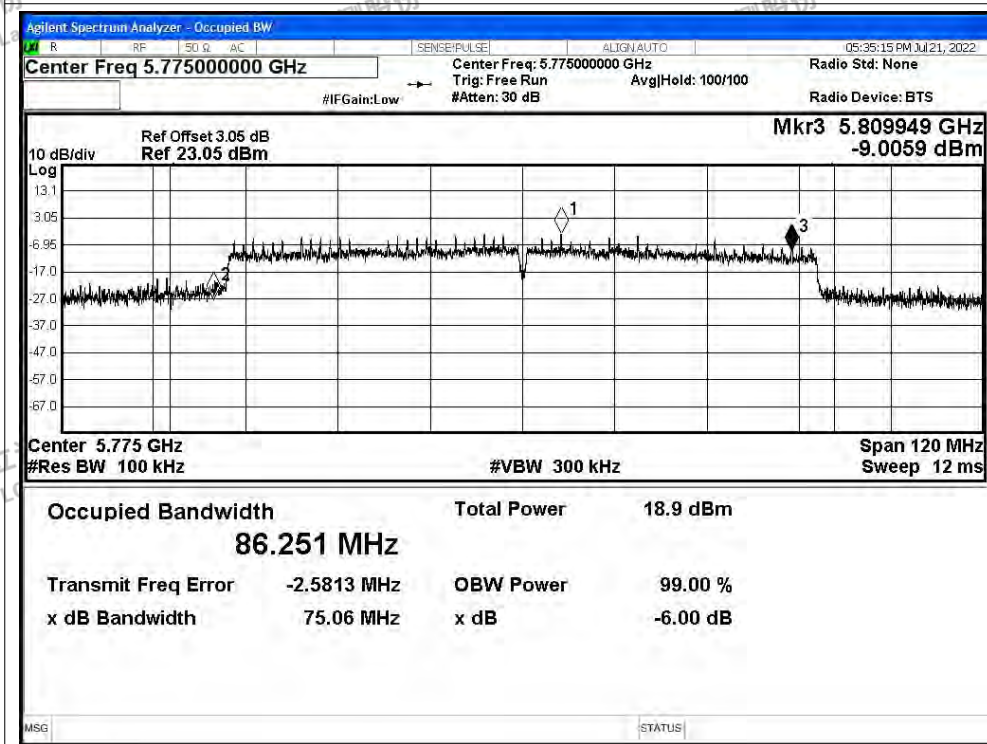
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-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



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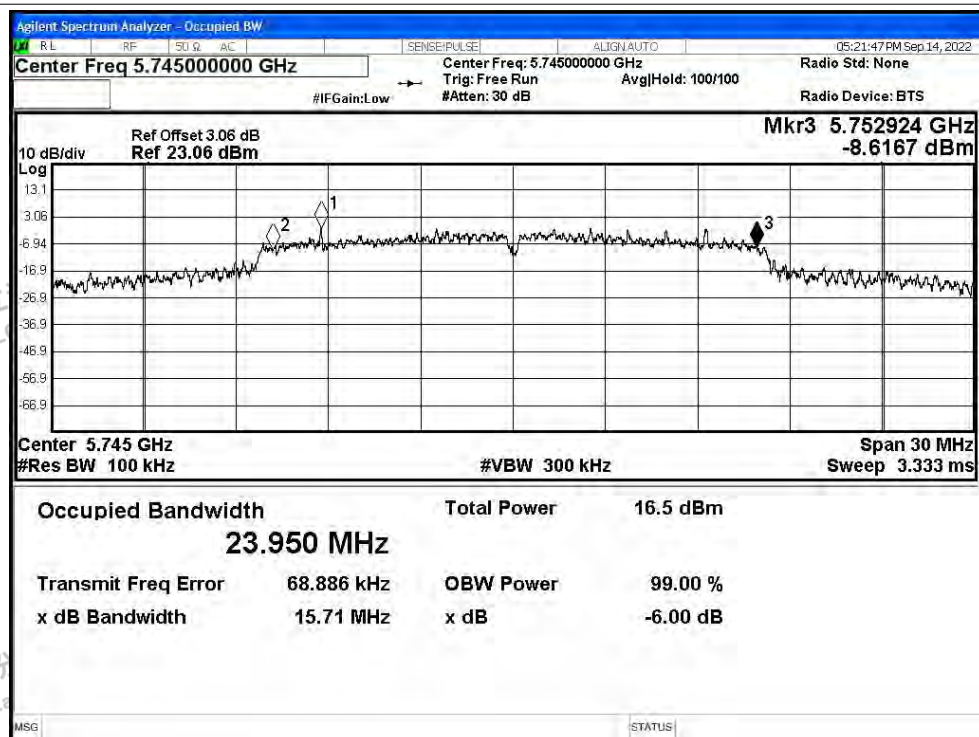
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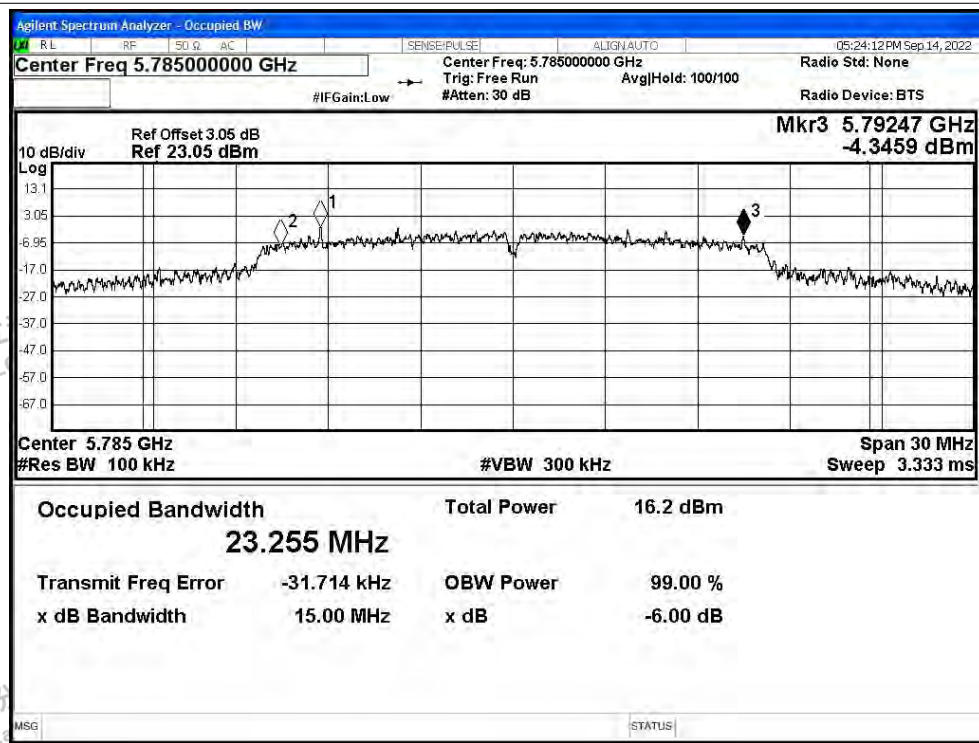
ANT2:

Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant2



-6dB Bandwidth NVNT a 5785MHz Ant2



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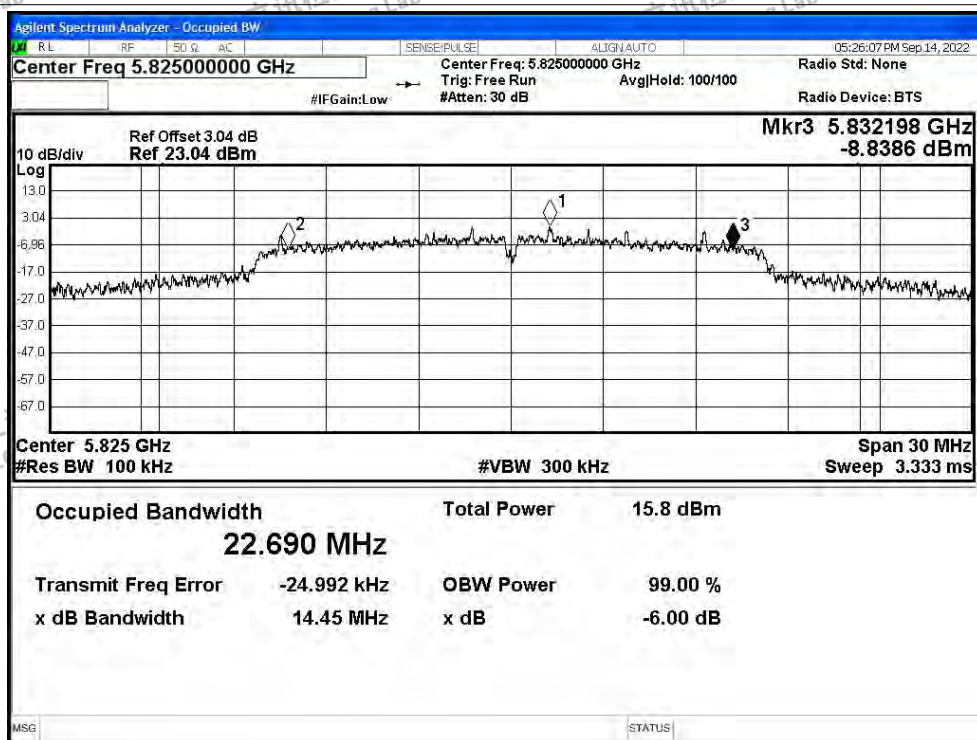
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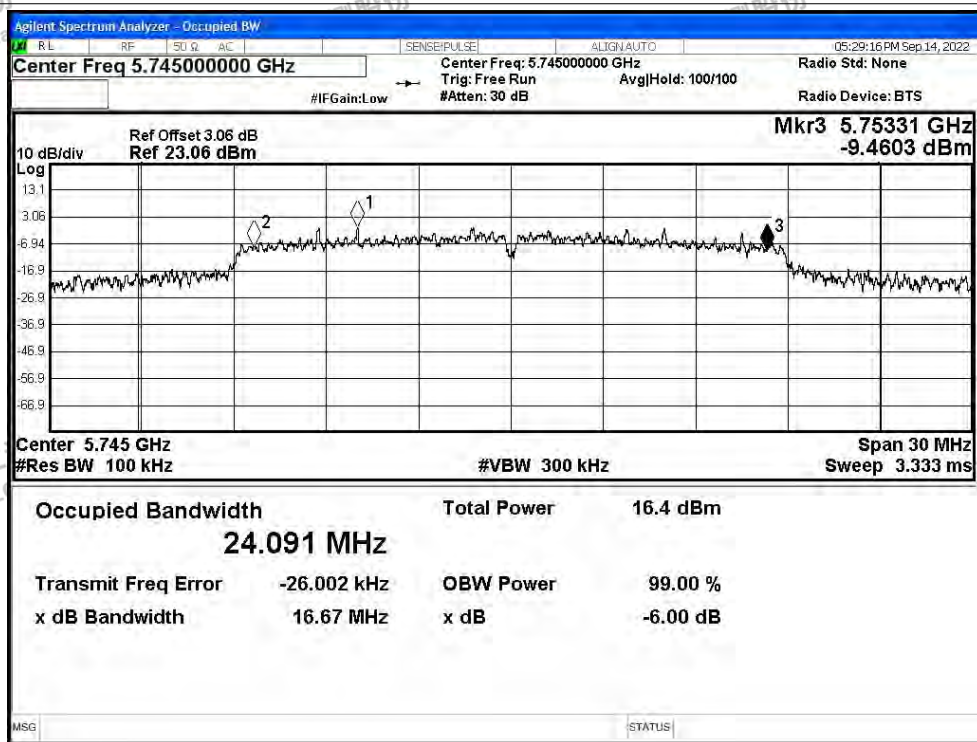
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-6dB Bandwidth NVNT a 5825MHz Ant2



-6dB Bandwidth NVNT n20 5745MHz Ant2



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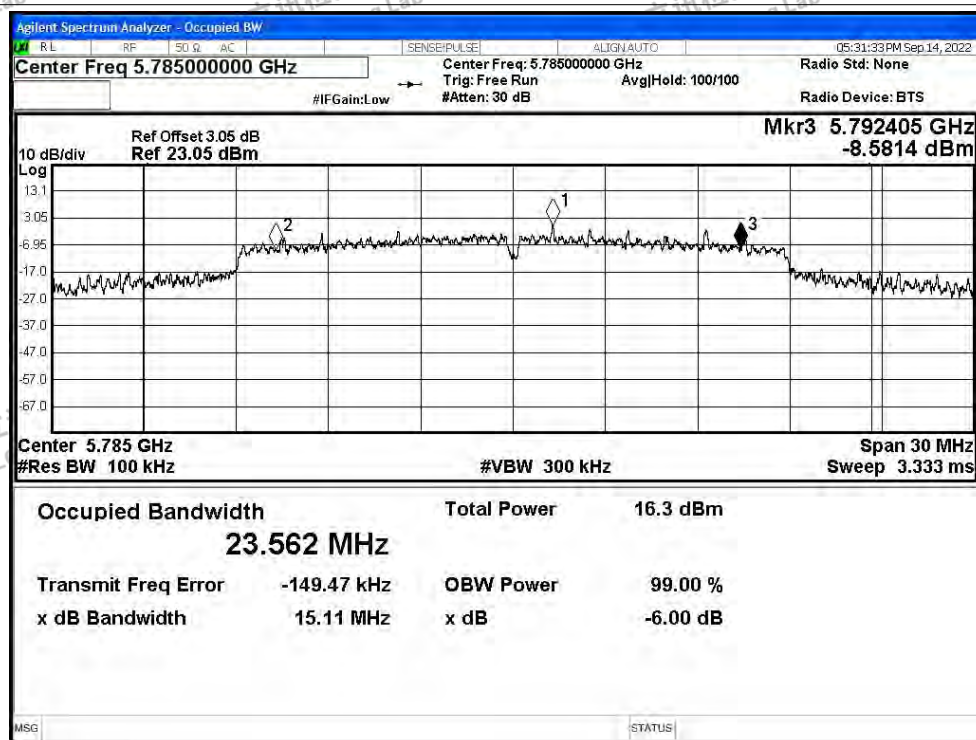
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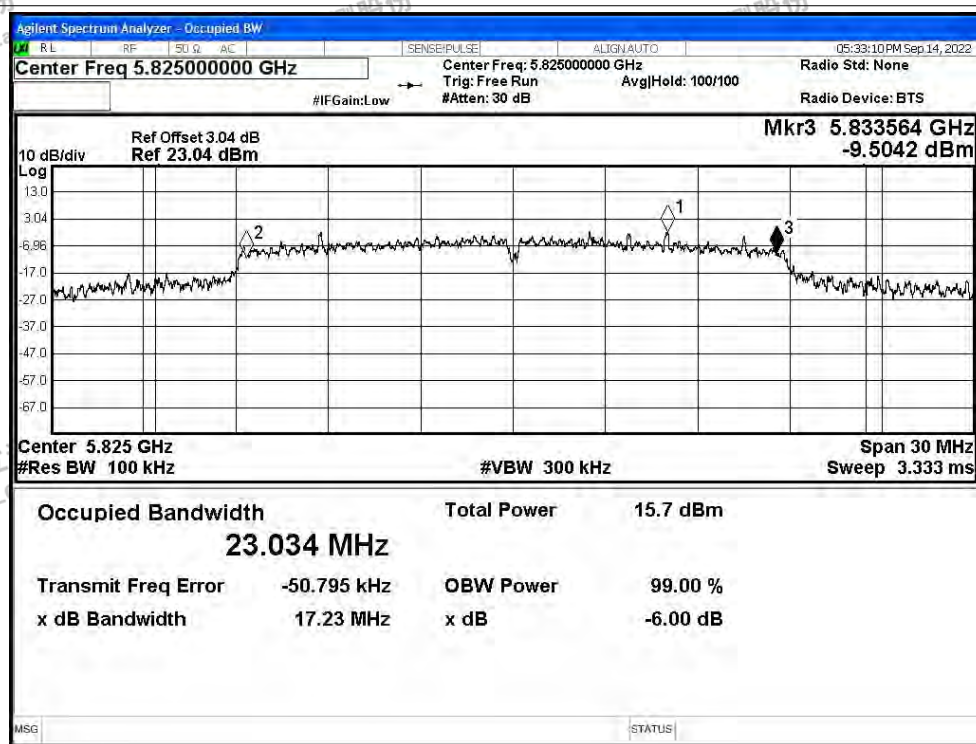
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-6dB Bandwidth NVNT n20 5785MHz Ant2

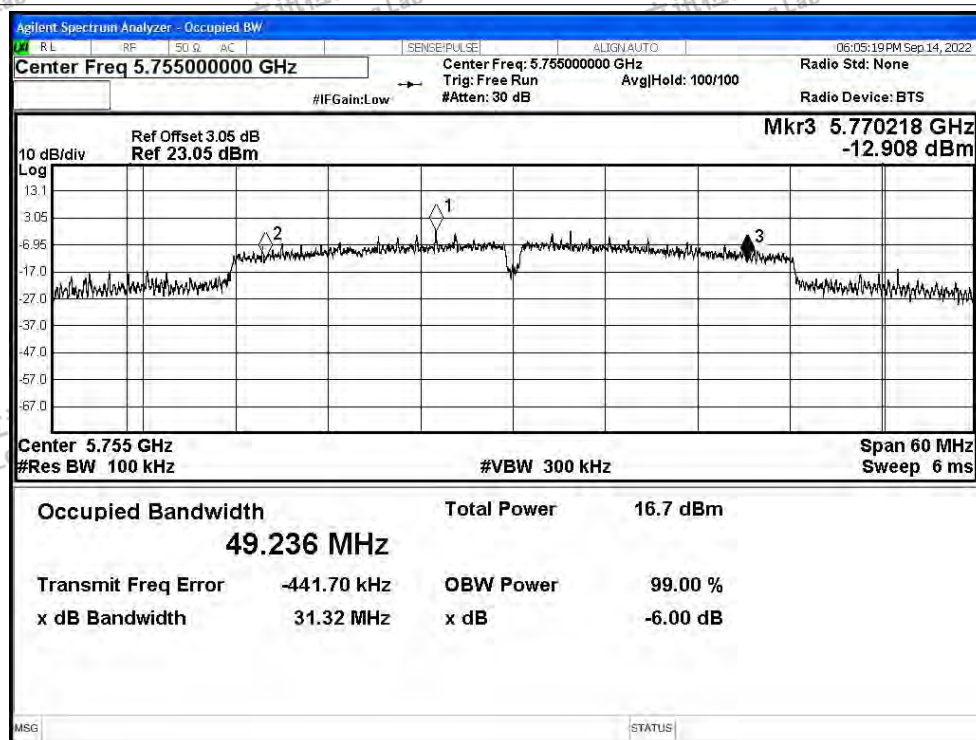


-6dB Bandwidth NVNT n20 5825MHz Ant2

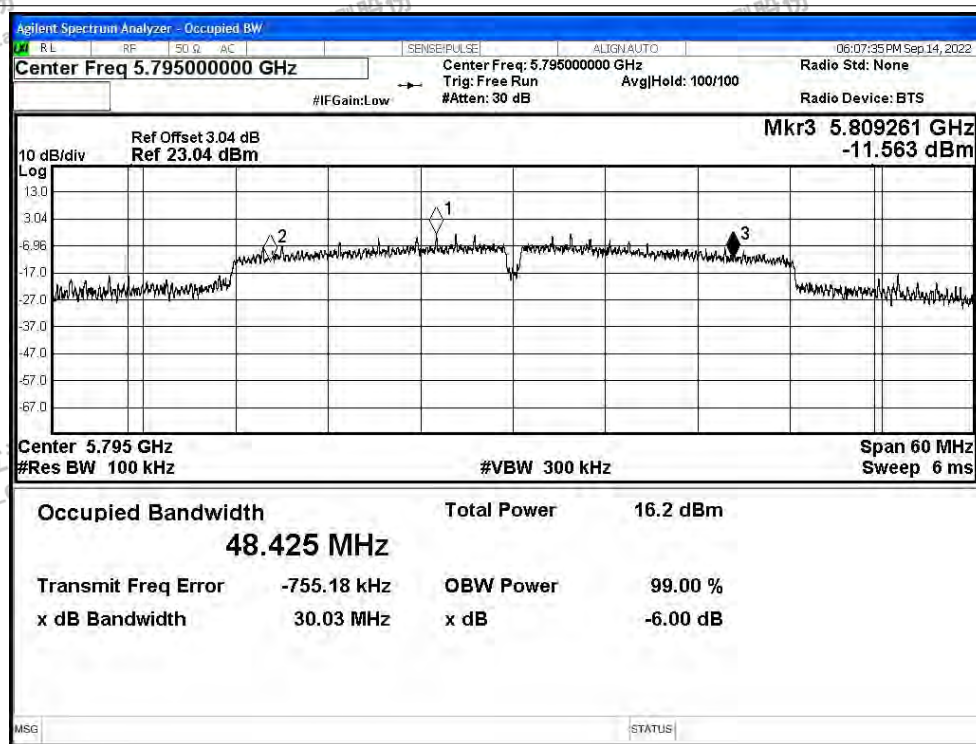




-6dB Bandwidth NVNT n40 5755MHz Ant2

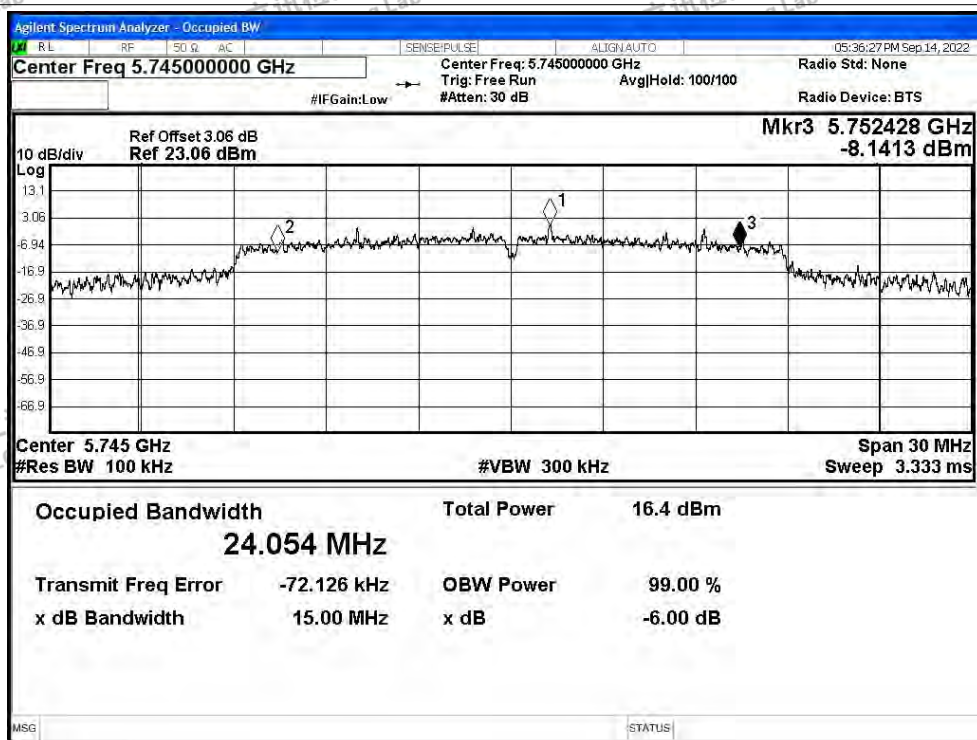


-6dB Bandwidth NVNT n40 5795MHz Ant2

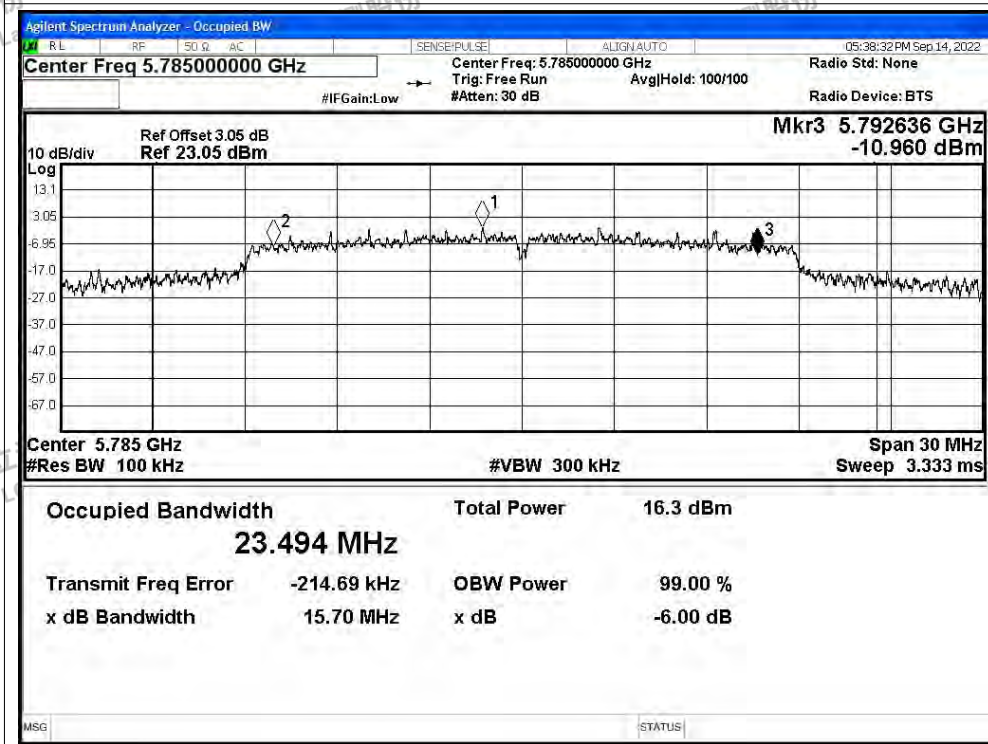




-6dB Bandwidth NVNT ac20 5745MHz Ant2



-6dB Bandwidth NVNT ac20 5785MHz Ant2



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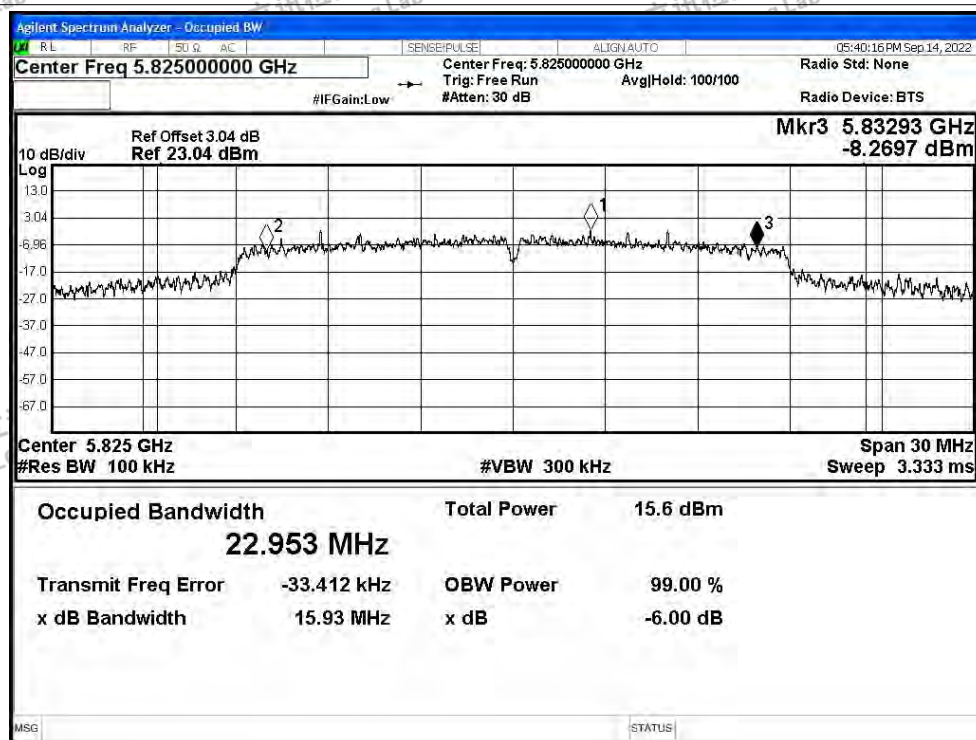
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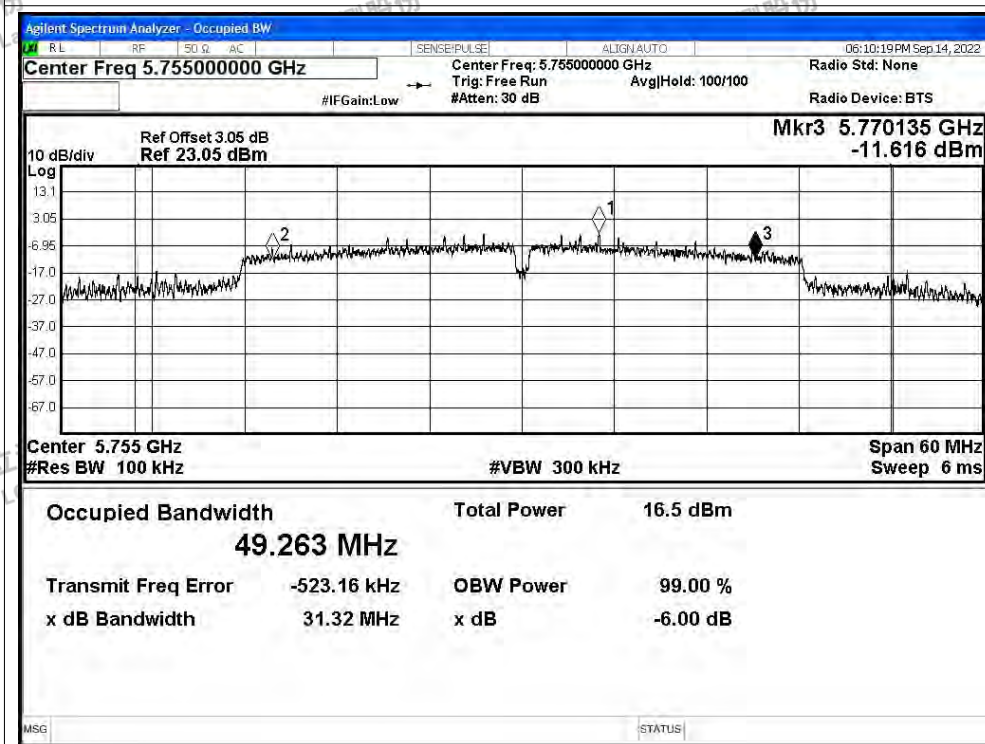
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-6dB Bandwidth NVNT ac20 5825MHz Ant2

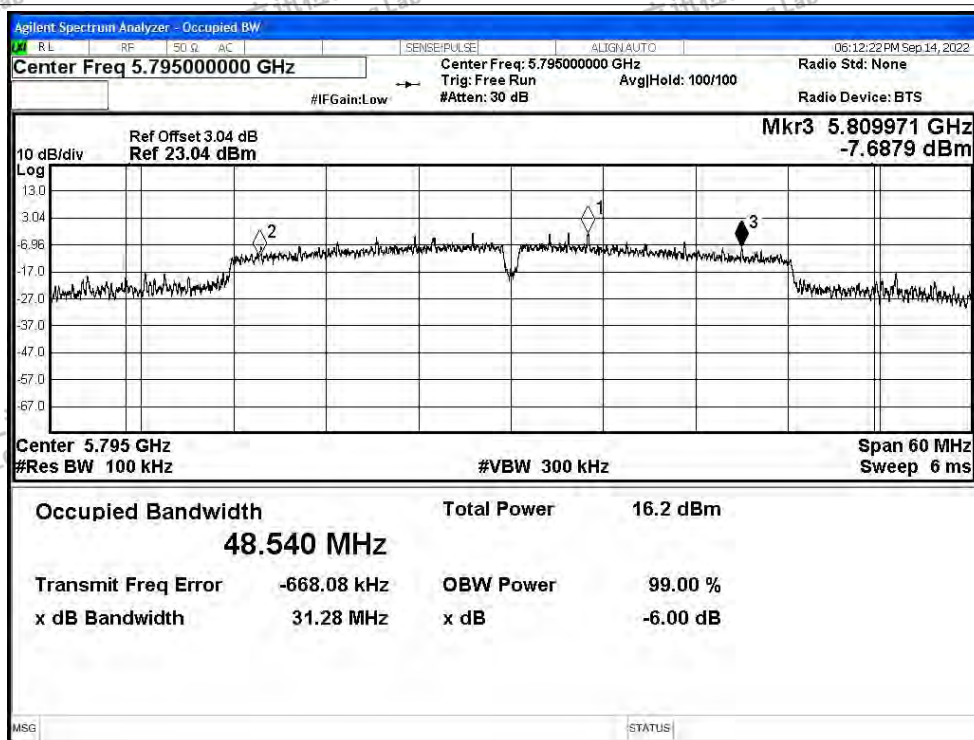


-6dB Bandwidth NVNT ac40 5755MHz Ant2

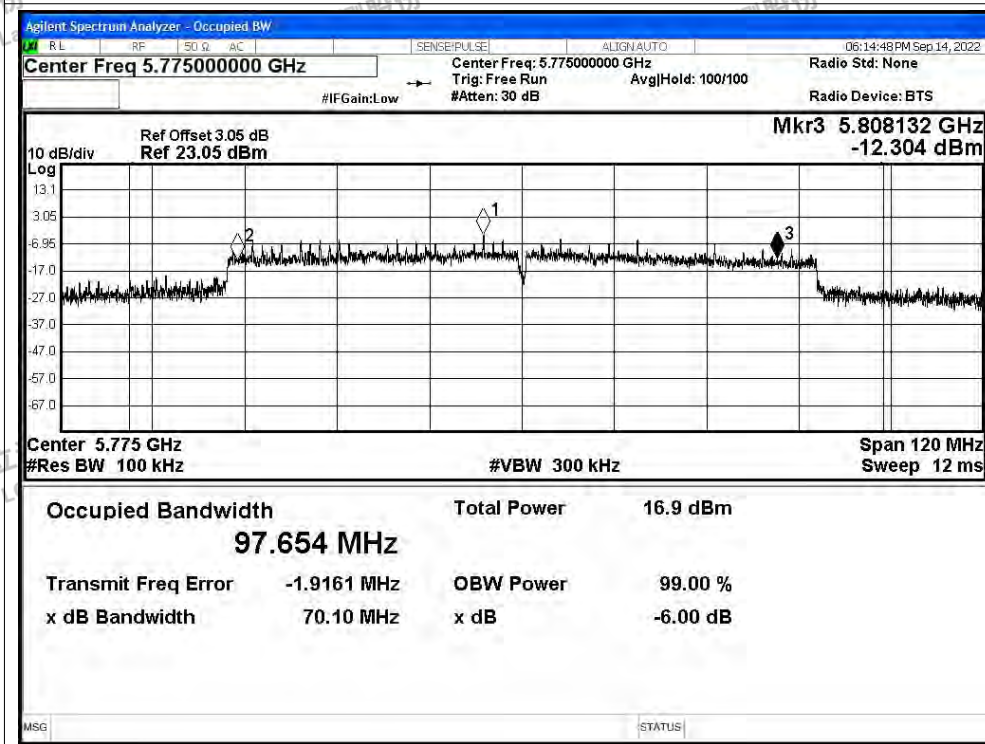




-6dB Bandwidth NVNT ac40 5795MHz Ant2



-6dB Bandwidth NVNT ac80 5775MHz Ant2



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E.2 Maximum Conducted Output Power

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.9	0.11	12.01	30	Pass
NVNT	a	5785	Ant1	11.92	0.11	12.03	30	Pass
NVNT	a	5825	Ant1	11.41	0.11	11.52	30	Pass
NVNT	n20	5745	Ant1	11.73	0.12	11.85	30	Pass
NVNT	n20	5785	Ant1	11.82	0.12	11.94	30	Pass
NVNT	n20	5825	Ant1	11.35	0.12	11.47	30	Pass
NVNT	n40	5755	Ant1	11.79	0.22	12.01	30	Pass
NVNT	n40	5795	Ant1	11.65	0.23	11.88	30	Pass
NVNT	ac20	5745	Ant1	11.77	0.11	11.88	30	Pass
NVNT	ac20	5785	Ant1	11.98	0.12	12.10	30	Pass
NVNT	ac20	5825	Ant1	11.5	0.11	11.61	30	Pass
NVNT	ac40	5755	Ant1	11.79	0.22	12.01	30	Pass
NVNT	ac40	5795	Ant1	11.68	0.22	11.9	30	Pass
NVNT	ac80	5775	Ant1	11.47	0.43	11.9	30	Pass

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant2	10.13	0.11	10.24	30	Pass
NVNT	a	5785	Ant2	9.97	0.11	10.08	30	Pass
NVNT	a	5825	Ant2	9.43	0.11	9.54	30	Pass
NVNT	n20	5745	Ant2	9.97	0.12	10.09	30	Pass
NVNT	n20	5785	Ant2	9.85	0.12	9.97	30	Pass
NVNT	n20	5825	Ant2	9.32	0.12	9.44	30	Pass
NVNT	n40	5755	Ant2	10.07	0.23	10.3	30	Pass
NVNT	n40	5795	Ant2	9.54	0.23	9.77	30	Pass
NVNT	ac20	5745	Ant2	9.94	0.11	10.05	30	Pass
NVNT	ac20	5785	Ant2	9.81	0.11	9.92	30	Pass
NVNT	ac20	5825	Ant2	9.37	0.12	9.49	30	Pass
NVNT	ac40	5755	Ant2	9.82	0.23	10.05	30	Pass
NVNT	ac40	5795	Ant2	9.5	0.23	9.73	30	Pass
NVNT	ac80	5775	Ant2	9.31	0.43	9.74	30	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			ANT1	ANT2	ANT1+ANT2		
NVNT	n20	5745	11.85	10.09	14.07	30	Pass
NVNT	n20	5785	11.94	9.97	14.08	30	Pass
NVNT	n20	5825	11.47	9.44	13.58	30	Pass
NVNT	n40	5755	12.01	10.3	14.25	30	Pass
NVNT	n40	5795	11.88	9.77	13.96	30	Pass
NVNT	ac20	5745	11.88	10.05	14.07	30	Pass
NVNT	ac20	5785	12.10	9.92	14.16	30	Pass
NVNT	ac20	5825	11.61	9.49	13.69	30	Pass
NVNT	ac40	5755	12.01	10.05	14.15	30	Pass
NVNT	ac40	5795	11.9	9.73	13.96	30	Pass
NVNT	ac80	5775	11.9	9.74	13.96	30	Pass



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E.3 Maximum Power Spectral Density Level

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-2.68	0.11	-2.57	30	Pass
NVNT	a	5785	Ant1	-3.12	0.11	-3.01	30	Pass
NVNT	a	5825	Ant1	-3.11	0.11	-3	30	Pass
NVNT	n20	5745	Ant1	-3.61	0.12	-3.49	30	Pass
NVNT	n20	5785	Ant1	-3.24	0.12	-3.12	30	Pass
NVNT	n20	5825	Ant1	-4.32	0.12	-4.2	30	Pass
NVNT	n40	5755	Ant1	-7.49	0.22	-7.27	30	Pass
NVNT	n40	5795	Ant1	-6.69	0.23	-6.46	30	Pass
NVNT	ac20	5745	Ant1	-4.22	0.11	-4.11	30	Pass
NVNT	ac20	5785	Ant1	-3.28	0.12	-3.16	30	Pass
NVNT	ac20	5825	Ant1	-3.36	0.11	-3.25	30	Pass
NVNT	ac40	5755	Ant1	-6.08	0.22	-5.86	30	Pass
NVNT	ac40	5795	Ant1	-7.22	0.22	-7	30	Pass
NVNT	ac80	5775	Ant1	-11.14	0.43	-10.71	30	Pass

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant2	-4.77	0.11	-4.66	30	Pass
NVNT	a	5785	Ant2	-5.33	0.11	-5.22	30	Pass
NVNT	a	5825	Ant2	-5.15	0.11	-5.04	30	Pass
NVNT	n20	5745	Ant2	-5.48	0.12	-5.36	30	Pass
NVNT	n20	5785	Ant2	-4.72	0.12	-4.6	30	Pass
NVNT	n20	5825	Ant2	-5.43	0.12	-5.31	30	Pass
NVNT	n40	5755	Ant2	-8.6	0.23	-8.37	30	Pass
NVNT	n40	5795	Ant2	-9.78	0.23	-9.55	30	Pass
NVNT	ac20	5745	Ant2	-5.43	0.11	-5.32	30	Pass
NVNT	ac20	5785	Ant2	-5.25	0.11	-5.14	30	Pass
NVNT	ac20	5825	Ant2	-4.81	0.12	-4.69	30	Pass
NVNT	ac40	5755	Ant2	-8.58	0.23	-8.35	30	Pass
NVNT	ac40	5795	Ant2	-7.96	0.23	-7.73	30	Pass
NVNT	ac80	5775	Ant2	-14.28	0.43	-13.85	30	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm)			Limit (dBm)	Verdict
			ANT1	ANT2	ANT1+ANT2		
NVNT	n20	5745	-3.49	-5.36	-1.31	30	Pass
NVNT	n20	5785	-3.12	-4.6	-0.79	30	Pass
NVNT	n20	5825	-4.2	-5.31	-1.71	30	Pass
NVNT	n40	5755	-7.27	-8.37	-4.77	30	Pass
NVNT	n40	5795	-6.46	-9.55	-4.73	30	Pass
NVNT	ac20	5745	-4.11	-5.32	-1.66	30	Pass
NVNT	ac20	5785	-3.16	-5.14	-1.03	30	Pass
NVNT	ac20	5825	-3.25	-4.69	-0.90	30	Pass
NVNT	ac40	5755	-5.86	-8.35	-3.92	30	Pass
NVNT	ac40	5795	-7	-7.73	-4.34	30	Pass
NVNT	ac80	5775	-10.71	-13.85	-8.99	30	Pass

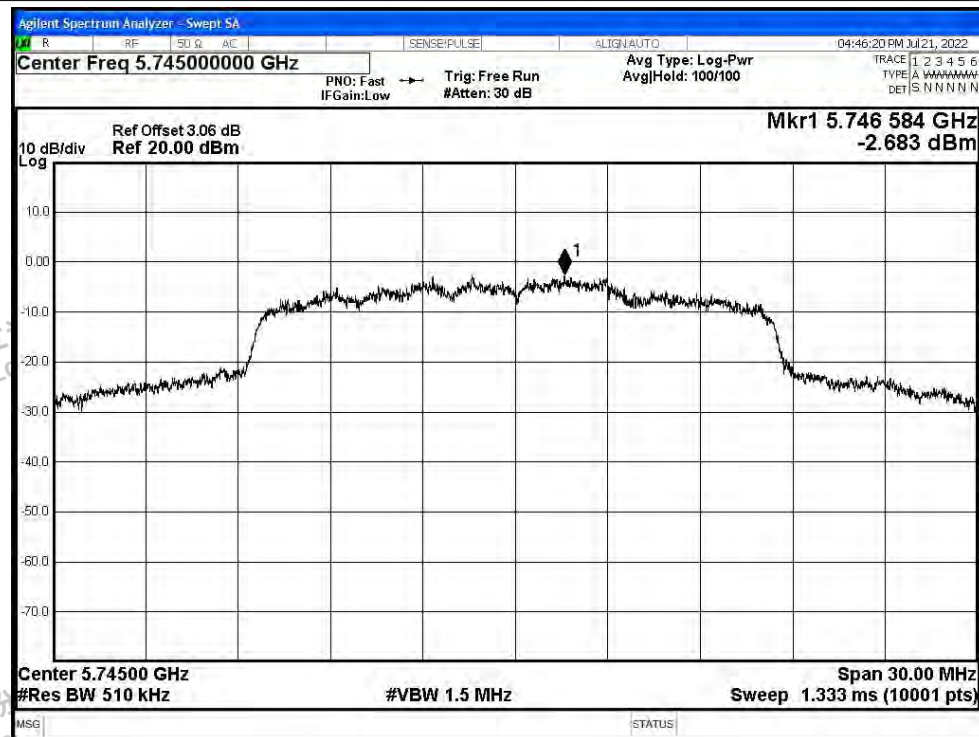




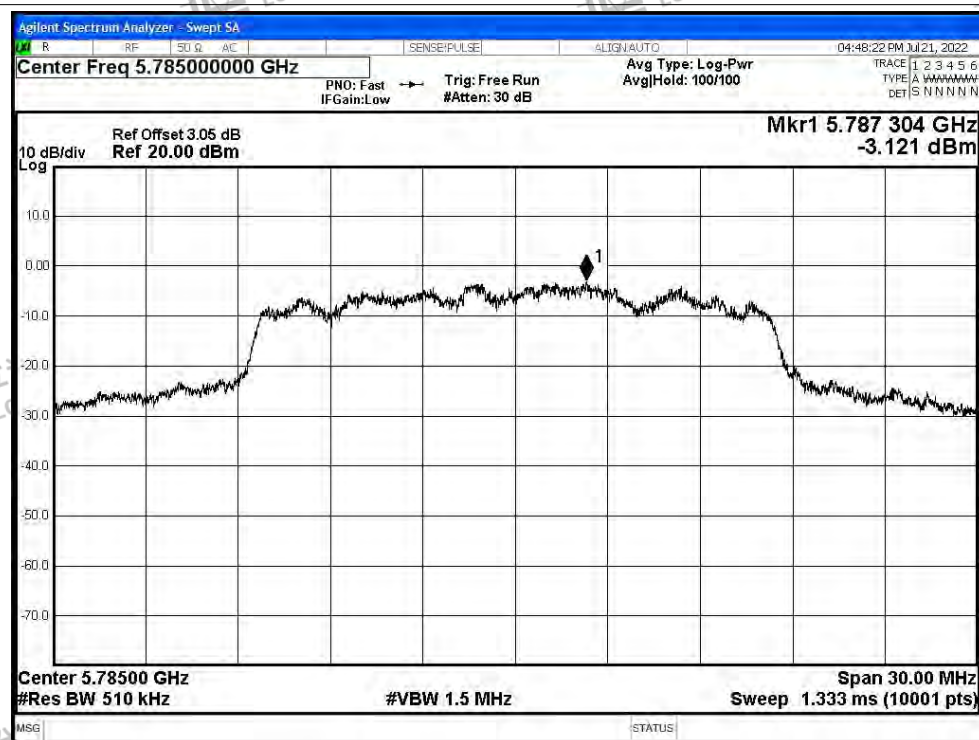
ANT1:

Test Graphs

PSD NVNT a 5745MHz Ant1

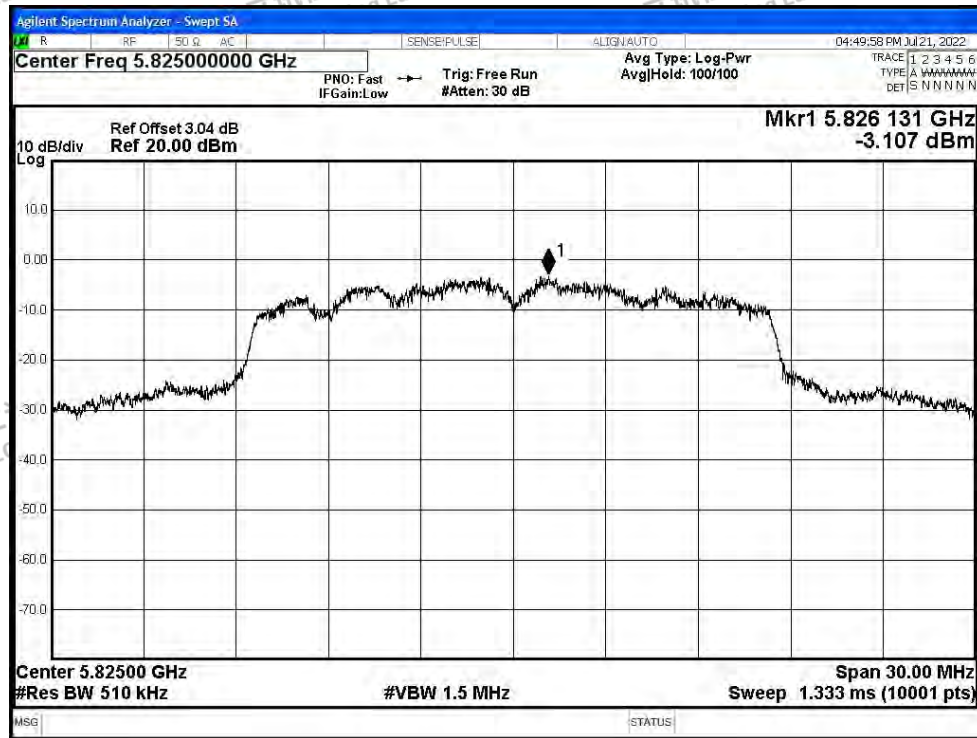


PSD NVNT a 5785MHz Ant1





PSD NVNT a 5825MHz Ant1

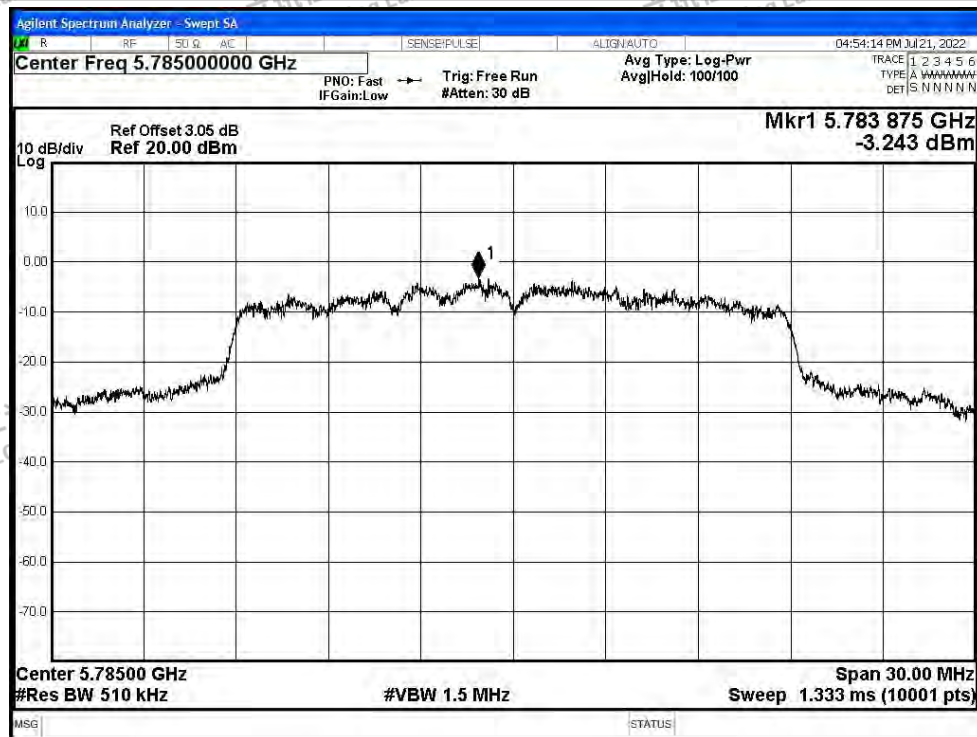


PSD NVNT n20 5745MHz Ant1

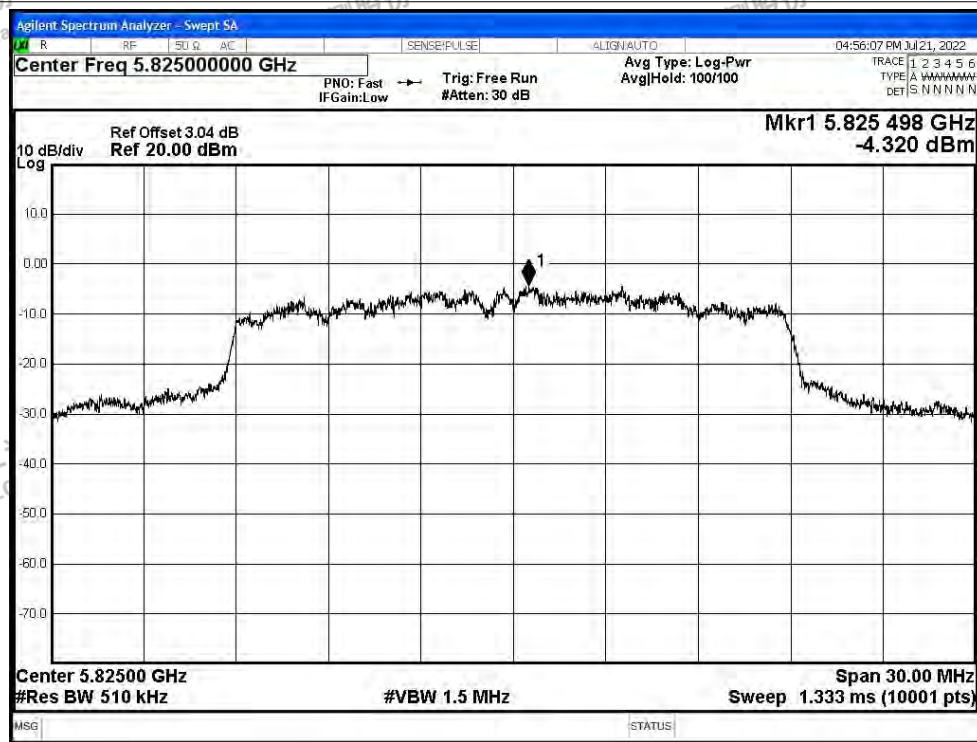




PSD NVNT n20 5785MHz Ant1

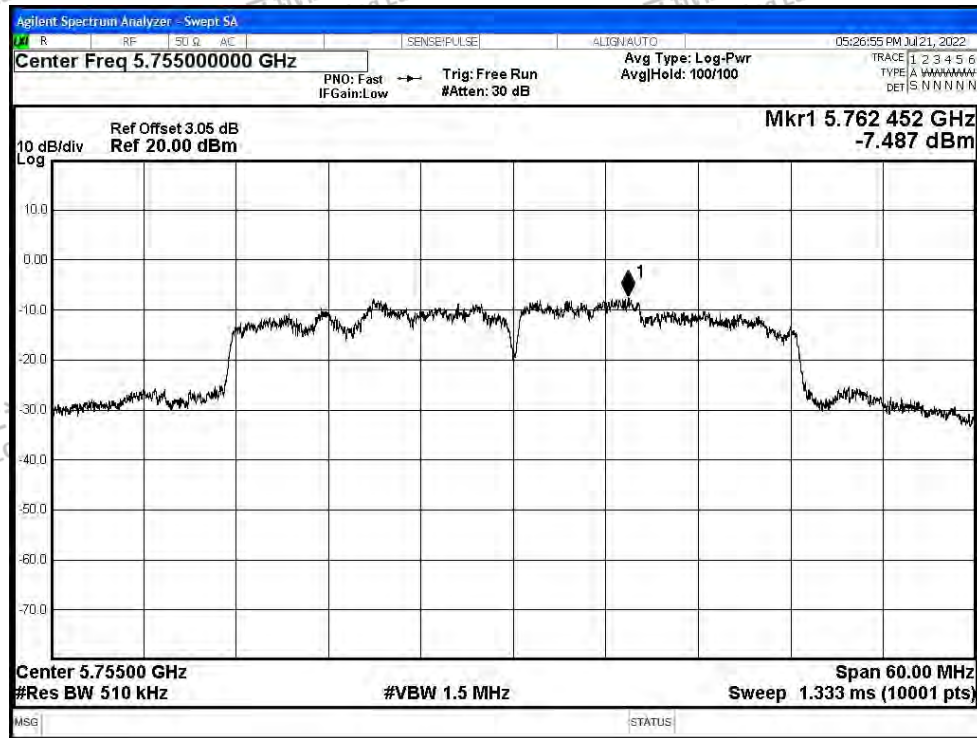


PSD NVNT n20 5825MHz Ant1

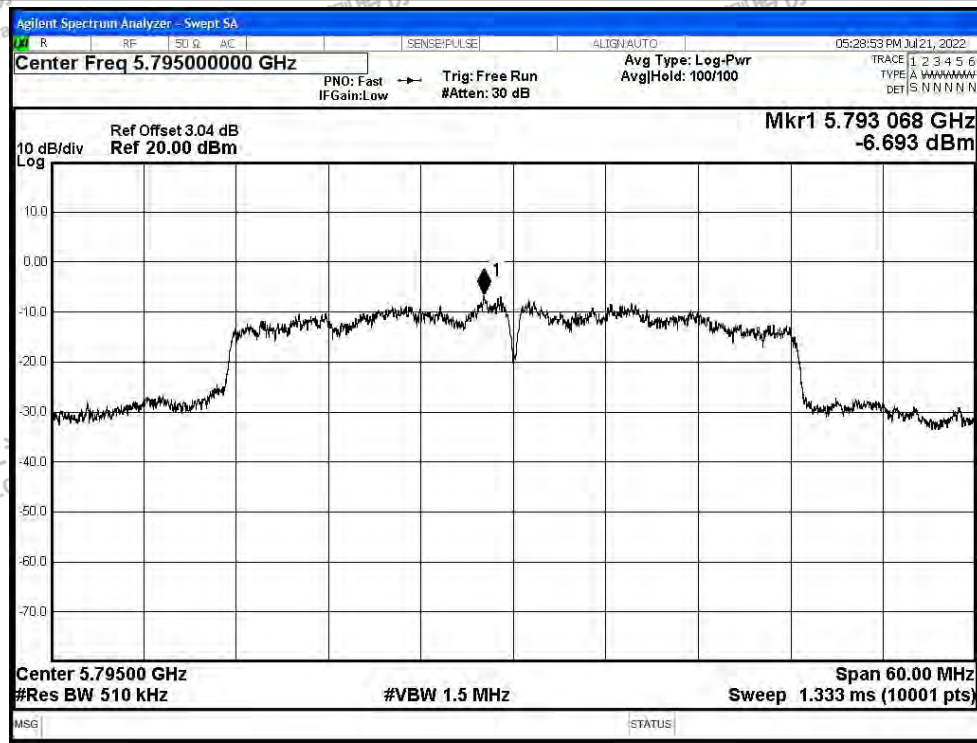




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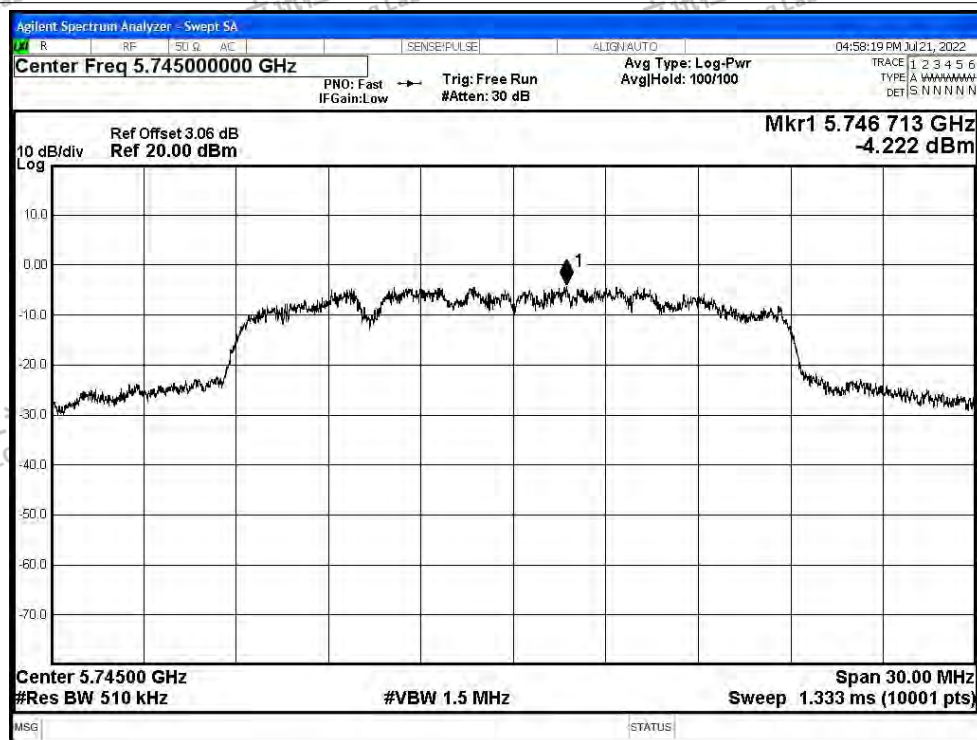


PSD NVNT n40 5795MHz Ant1

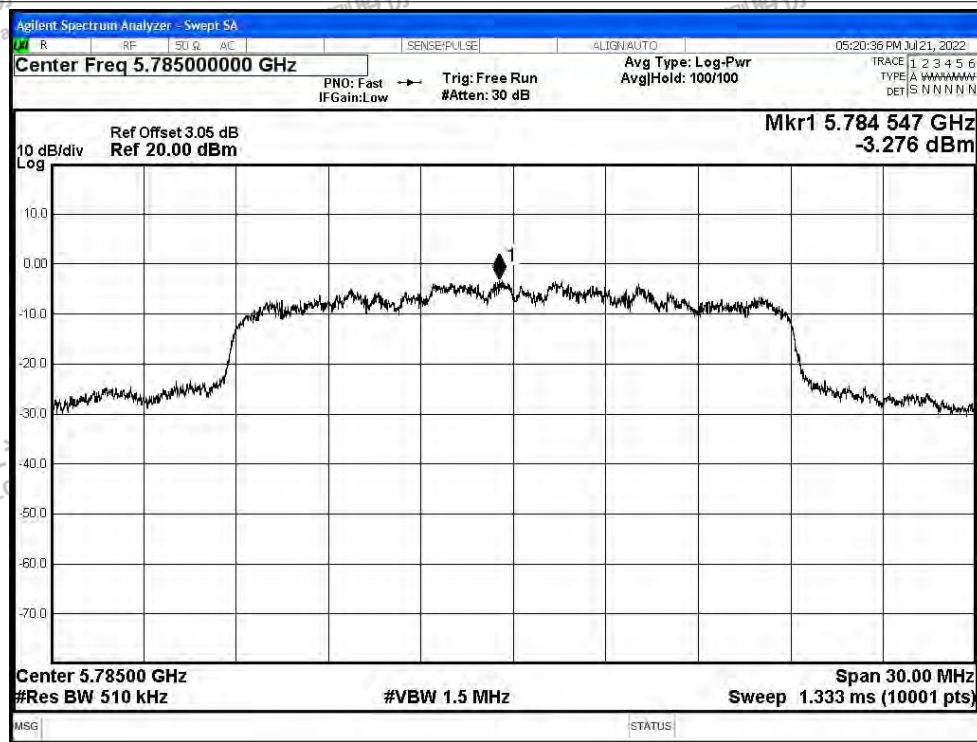




PSD NVNT ac20 5745MHz Ant1

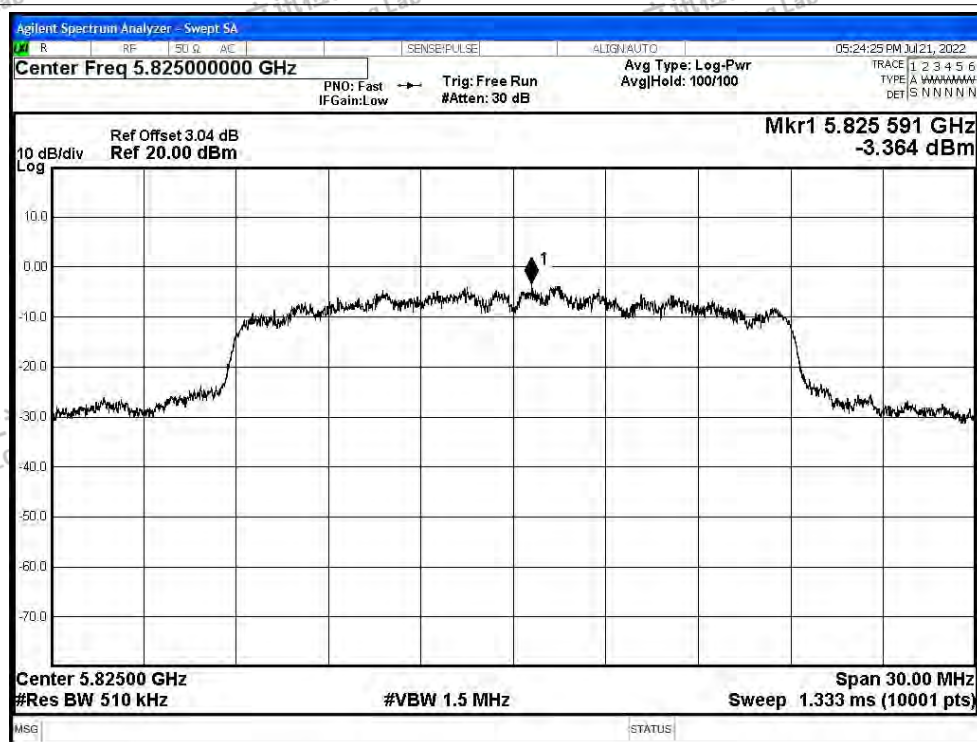


PSD NVNT ac20 5785MHz Ant1





PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1

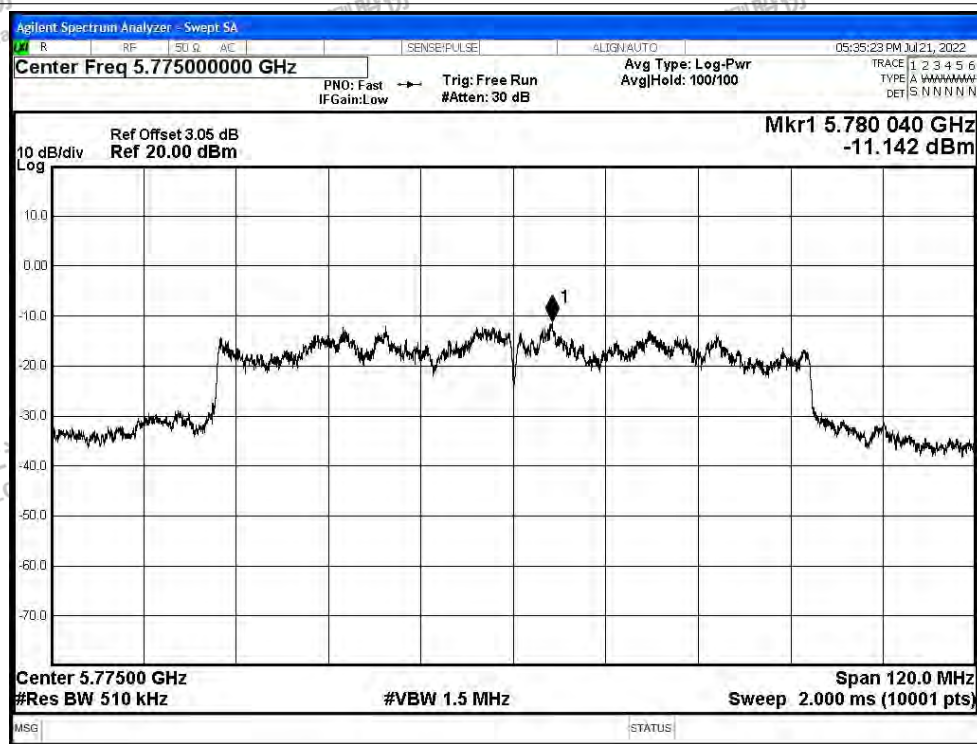




PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

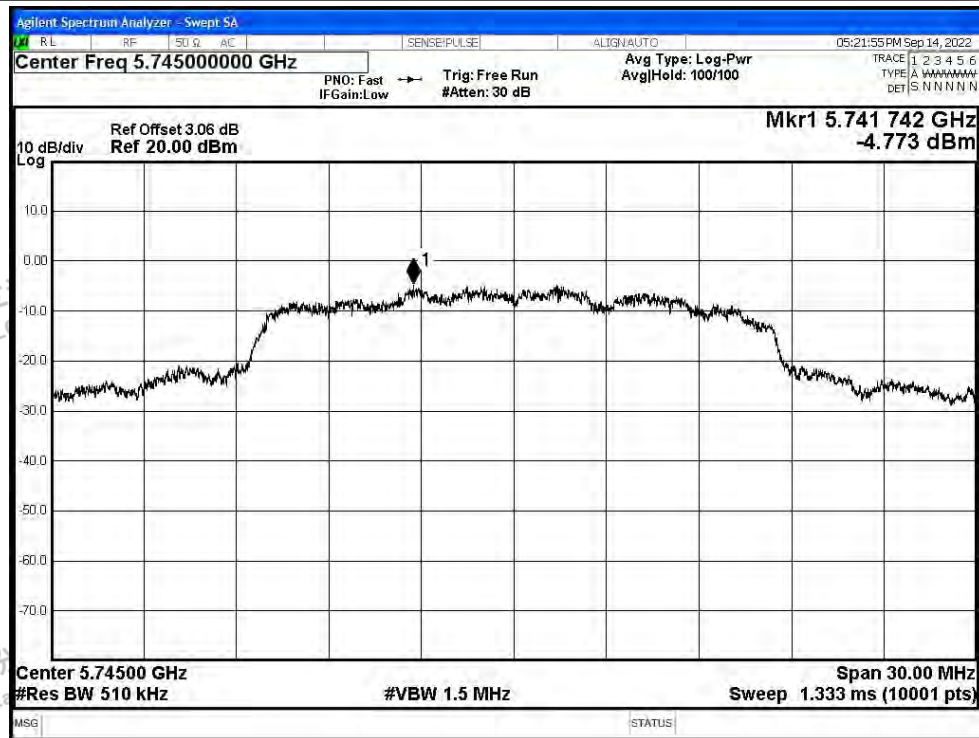




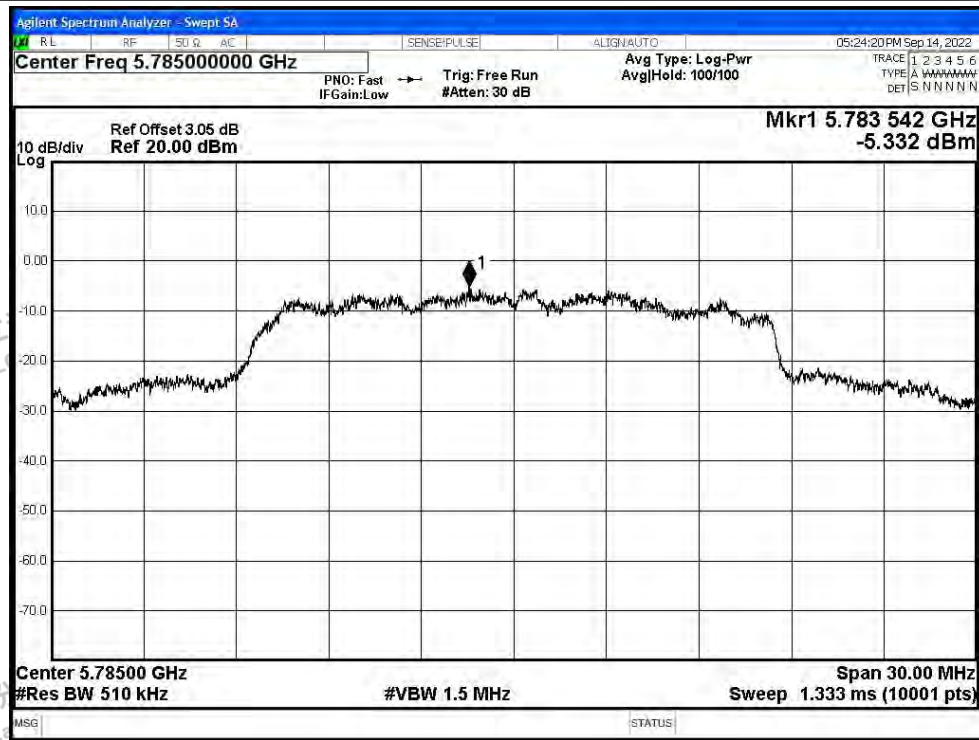
ANT2:

Test Graphs

PSD NVNT a 5745MHz Ant2

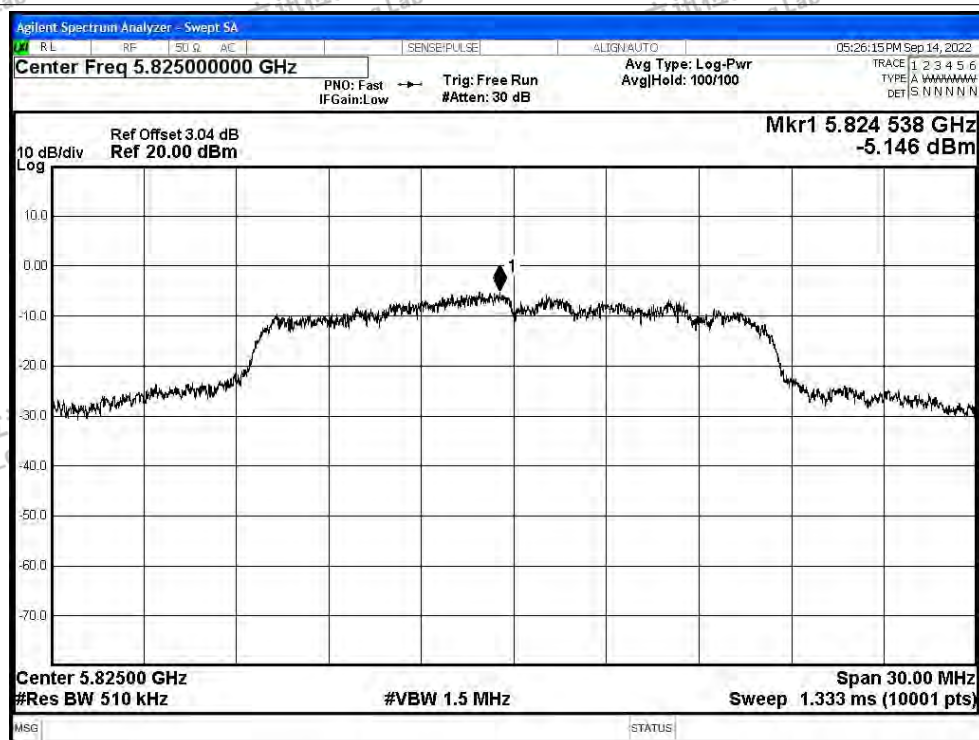


PSD NVNT a 5785MHz Ant2

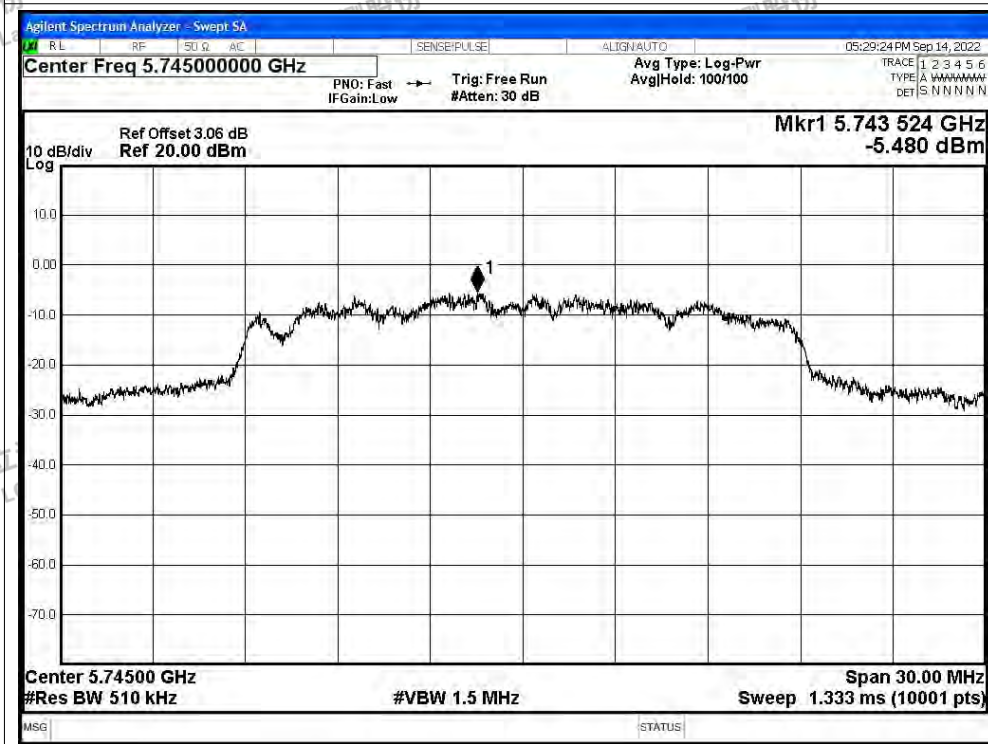




PSD NVNT a 5825MHz Ant2

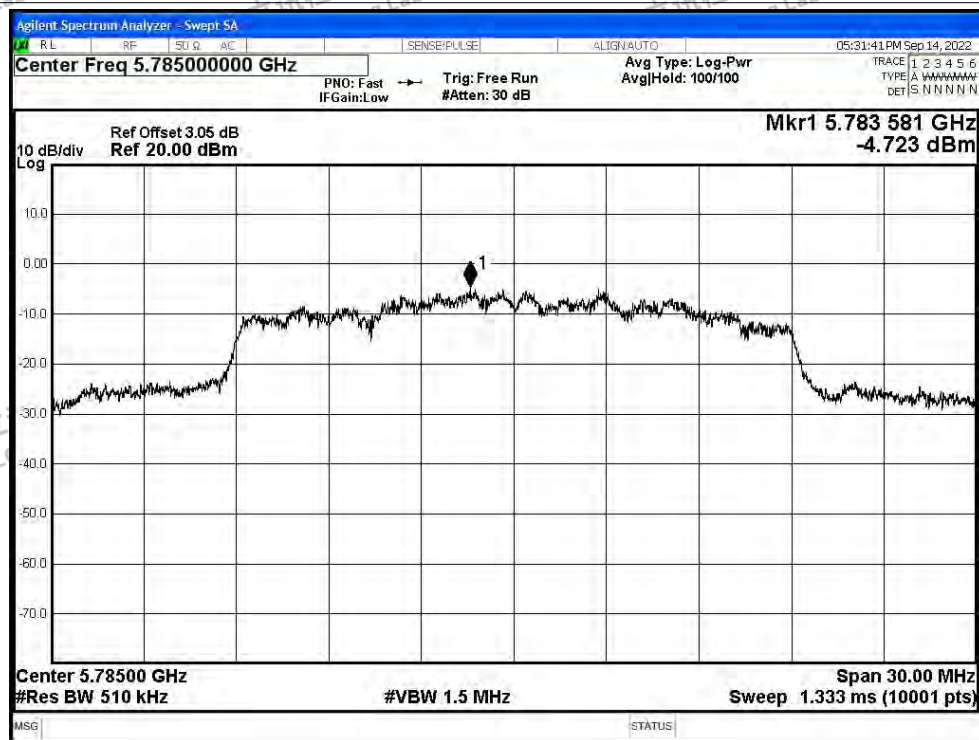


PSD NVNT n20 5745MHz Ant2





PSD NVNT n20 5785MHz Ant2



PSD NVNT n20 5825MHz Ant2

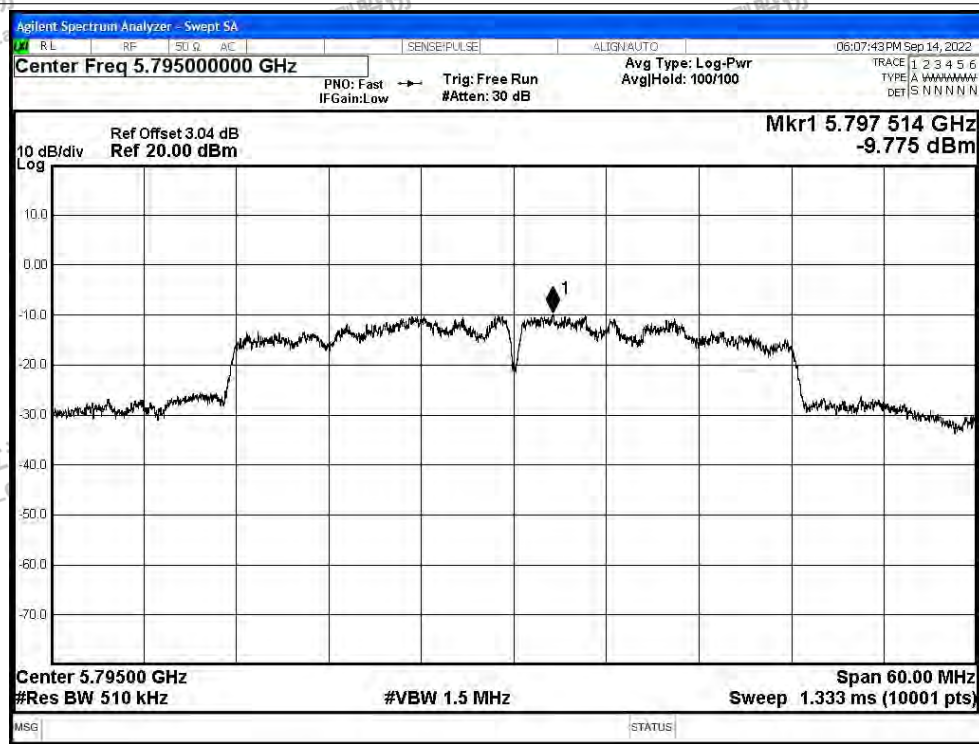




PSD NVNT n40 5755MHz Ant2

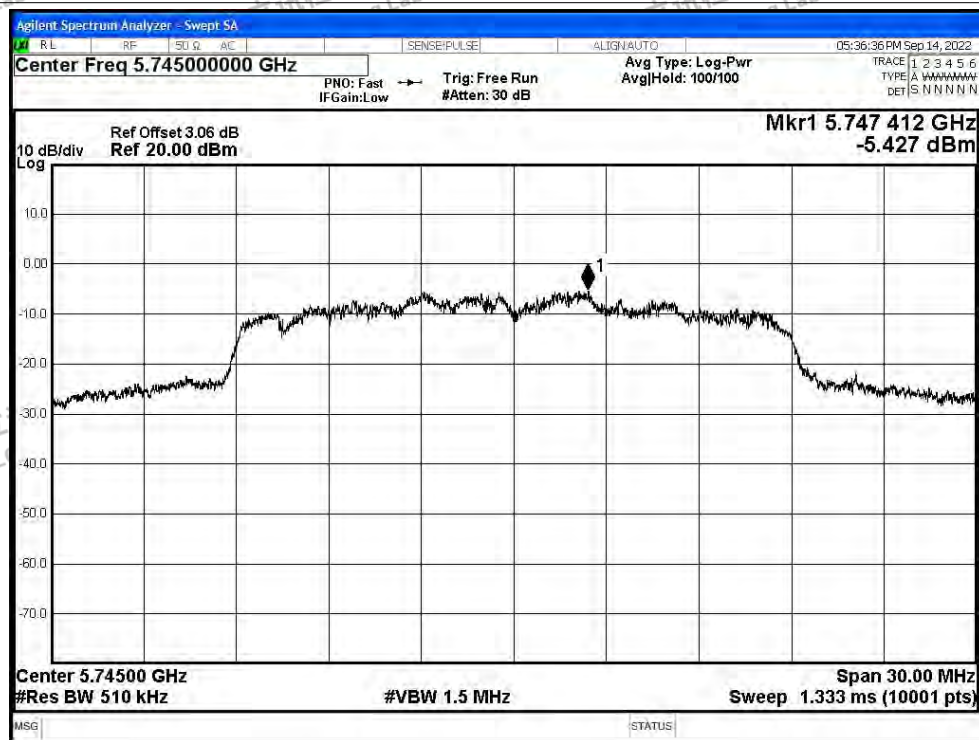


PSD NVNT n40 5795MHz Ant2

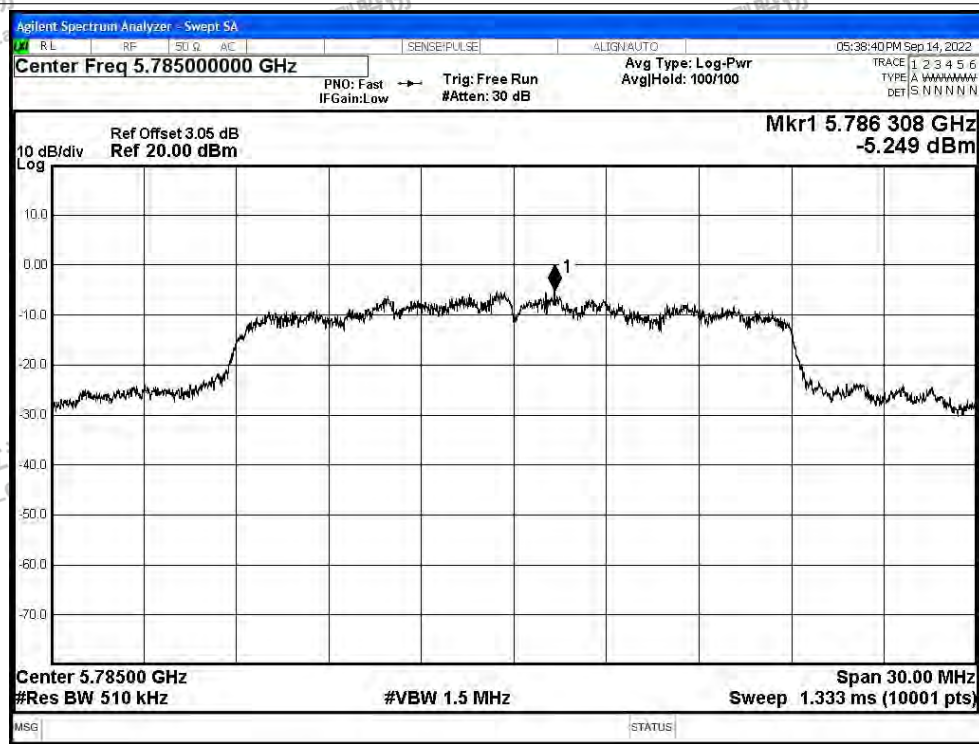




PSD NVNT ac20 5745MHz Ant2

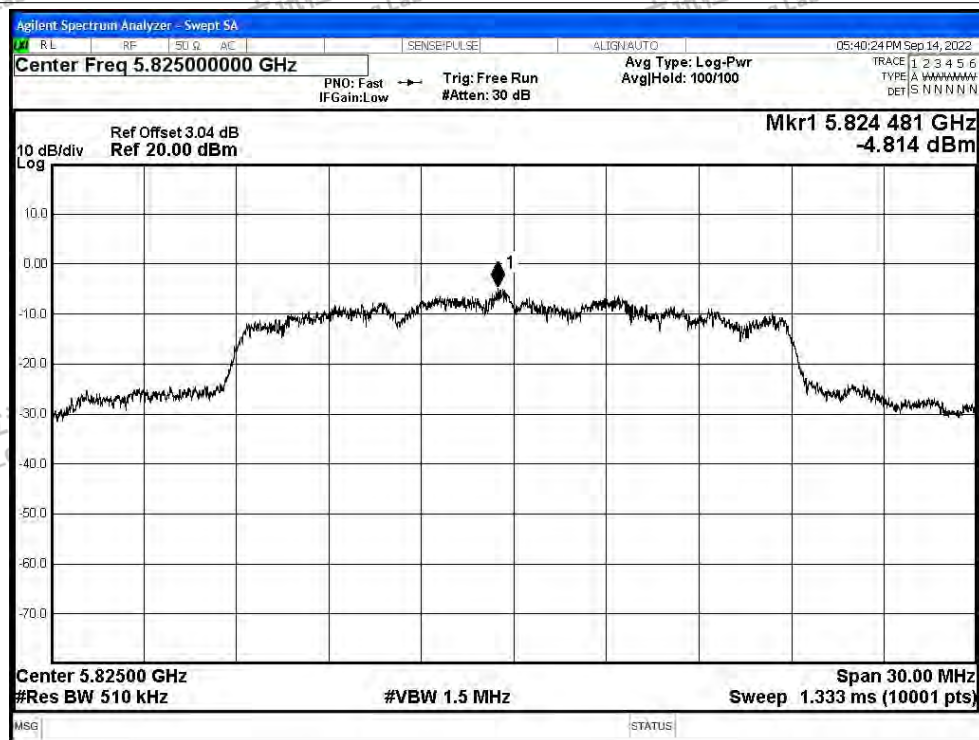


PSD NVNT ac20 5785MHz Ant2

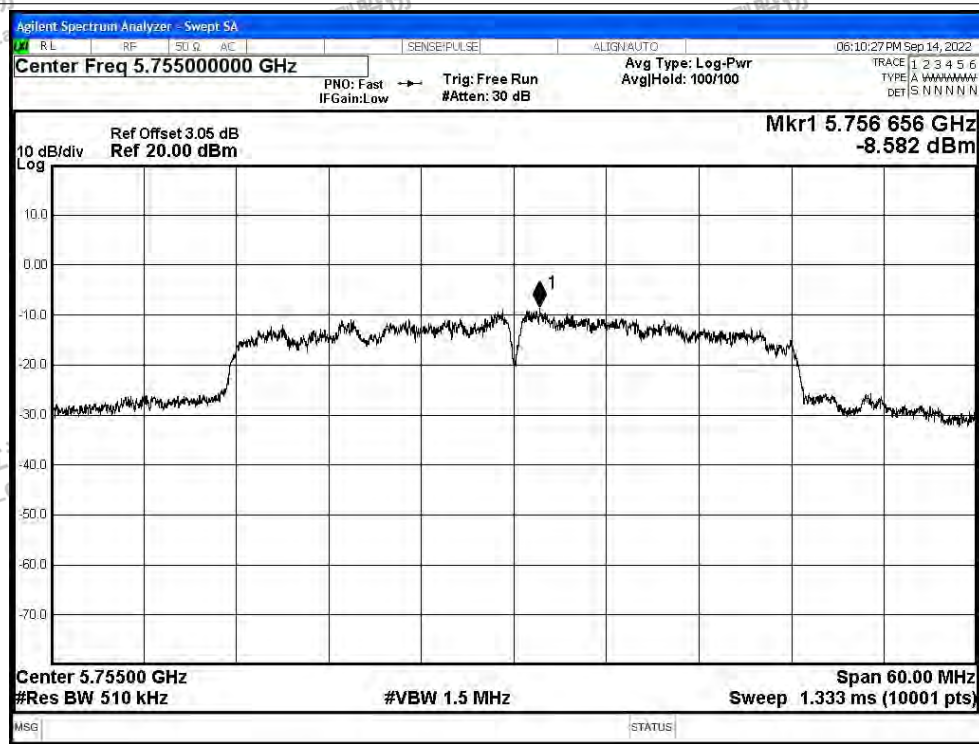




PSD NVNT ac20 5825MHz Ant2

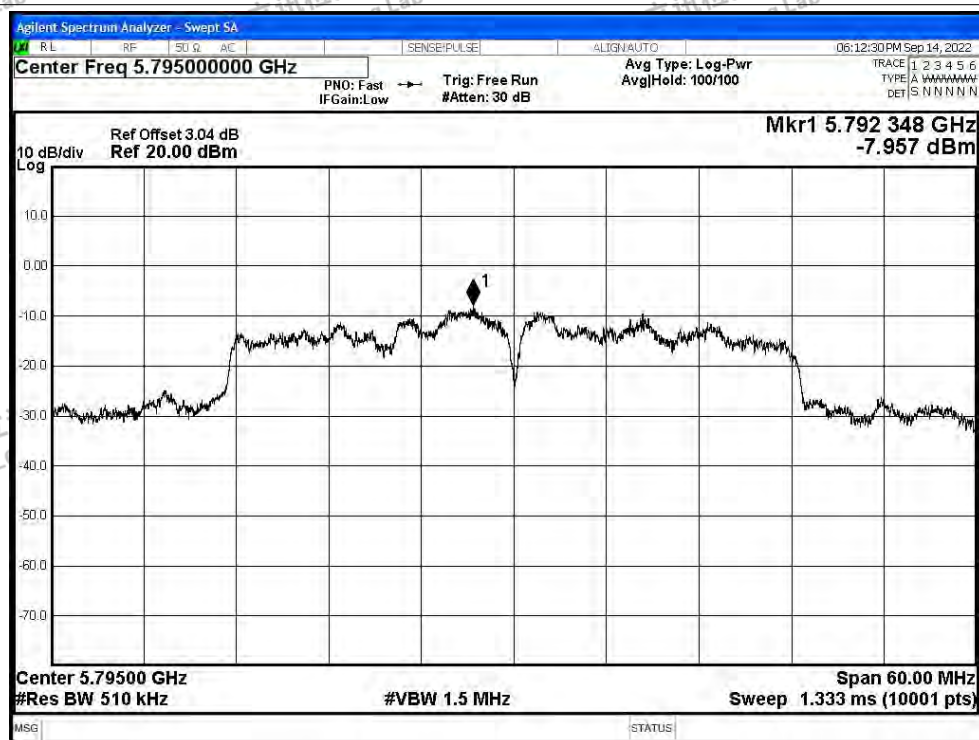


PSD NVNT ac40 5755MHz Ant2

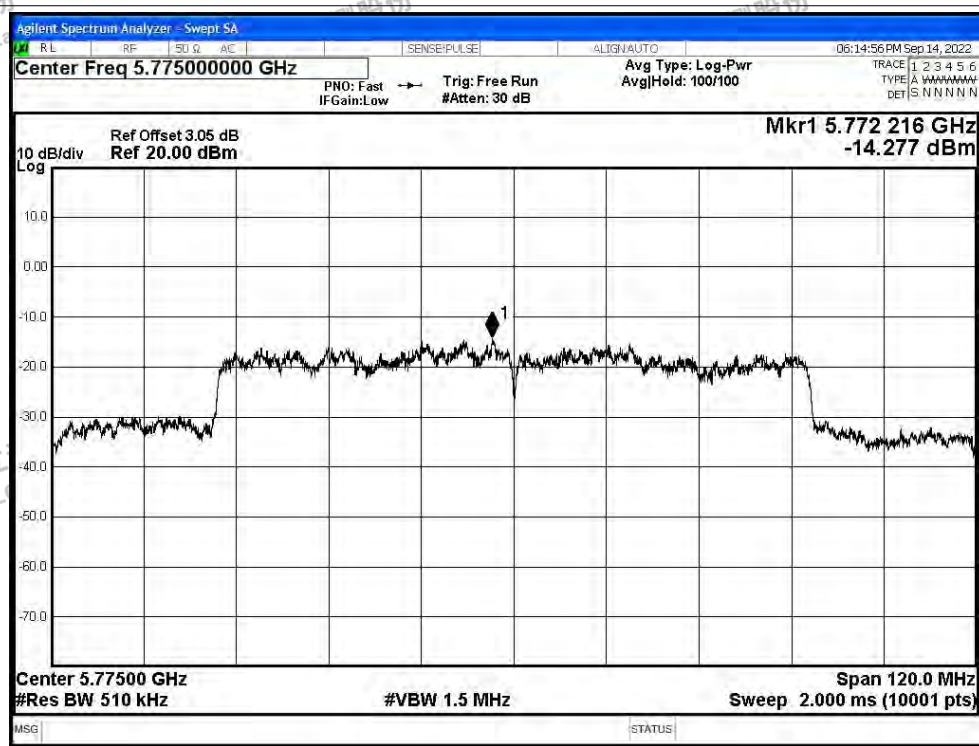




PSD NVNT ac40 5795MHz Ant2



PSD NVNT ac80 5775MHz Ant2





E.4 Restrict Band

Condition	Mode: MIMO	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5745	5650	-49.62	2.03	47.64	Peak	68.2	Pass
NVNT	a	5745	5650	-59.63	2.03	37.63	Average	54	Pass
NVNT	a	5745	5700	-49.99	2.03	47.27	Peak	68.2	Pass
NVNT	a	5745	5700	-59.27	2.03	37.99	Average	54	Pass
NVNT	a	5745	5720	-47.67	2.03	49.59	Peak	68.2	Pass
NVNT	a	5745	5720	-57.73	2.03	39.53	Average	54	Pass
NVNT	a	5745	5725	-43.46	2.03	53.80	Peak	68.2	Pass
NVNT	a	5745	5725	-54.72	2.03	42.54	Average	54	Pass
NVNT	a	5825	5850	-42.15	2.03	55.11	Peak	68.2	Pass
NVNT	a	5825	5850	-55.82	2.03	41.44	Average	54	Pass
NVNT	a	5825	5855	-45.71	2.03	51.55	Peak	68.2	Pass
NVNT	a	5825	5855	-57.87	2.03	39.39	Average	54	Pass
NVNT	a	5825	5875	-50.54	2.03	46.72	Peak	68.2	Pass
NVNT	a	5825	5875	-59.27	2.03	37.99	Average	54	Pass
NVNT	a	5825	5925	-50.25	2.03	47.01	Peak	68.2	Pass
NVNT	a	5825	5925	-58.99	2.03	38.27	Average	54	Pass
NVNT	n20-MIMO	5745	5650	-50.4	5.04	49.87	Peak	68.2	Pass
NVNT	n20-MIMO	5745	5650	-59.64	5.04	40.63	Average	54	Pass
NVNT	n20-MIMO	5745	5700	-50.49	5.04	49.78	Peak	68.2	Pass
NVNT	n20-MIMO	5745	5700	-59.22	5.04	41.05	Average	54	Pass
NVNT	n20-MIMO	5745	5720	-46.94	5.04	53.33	Peak	68.2	Pass
NVNT	n20-MIMO	5745	5720	-57.89	5.04	42.38	Average	54	Pass
NVNT	n20-MIMO	5745	5725	-43.19	5.04	57.08	Peak	68.2	Pass
NVNT	n20-MIMO	5745	5725	-55.24	5.04	45.03	Average	54	Pass
NVNT	n20-MIMO	5825	5850	-44.73	5.04	55.54	Peak	68.2	Pass
NVNT	n20-MIMO	5825	5850	-56.31	5.04	43.96	Average	54	Pass
NVNT	n20-MIMO	5825	5855	-47.78	5.04	52.49	Peak	68.2	Pass
NVNT	n20-MIMO	5825	5855	-58.26	5.04	42.01	Average	54	Pass
NVNT	n20-MIMO	5825	5875	-49.63	5.04	50.64	Peak	68.2	Pass
NVNT	n20-MIMO	5825	5875	-59.15	5.04	41.12	Average	54	Pass
NVNT	n20-MIMO	5825	5925	-48.54	5.04	51.73	Peak	68.2	Pass
NVNT	n20-MIMO	5825	5925	-58.95	5.04	41.32	Average	54	Pass
NVNT	n40-MIMO	5755	5650	-49.4	5.04	50.87	Peak	68.2	Pass
NVNT	n40-MIMO	5755	5650	-59.15	5.04	41.12	Average	54	Pass
NVNT	n40-MIMO	5755	5700	-49	5.04	51.27	Peak	68.2	Pass
NVNT	n40-MIMO	5755	5700	-58.42	5.04	41.85	Average	54	Pass
NVNT	n40-MIMO	5755	5720	-46.33	5.04	53.94	Peak	68.2	Pass





NVNT	n40-MIMO	5755	5720	-55.95	5.04	44.32	Average	54	Pass
NVNT	n40-MIMO	5755	5725	-43.38	5.04	56.89	Peak	68.2	Pass
NVNT	n40-MIMO	5755	5725	-54.83	5.04	45.44	Average	54	Pass
NVNT	n40-MIMO	5795	5850	-47.62	5.04	52.65	Peak	68.2	Pass
NVNT	n40-MIMO	5795	5850	-58.71	5.04	41.56	Average	54	Pass
NVNT	n40-MIMO	5795	5855	-48.61	5.04	51.66	Peak	68.2	Pass
NVNT	n40-MIMO	5795	5855	-58.79	5.04	41.48	Average	54	Pass
NVNT	n40-MIMO	5795	5875	-49.23	5.04	51.04	Peak	68.2	Pass
NVNT	n40-MIMO	5795	5875	-58.22	5.04	42.05	Average	54	Pass
NVNT	n40-MIMO	5795	5925	-48.21	5.04	52.06	Peak	68.2	Pass
NVNT	n40-MIMO	5795	5925	-58.62	5.04	41.65	Average	54	Pass
NVNT	ac20-MIMO	5745	5650	-50.08	5.04	50.19	Peak	68.2	Pass
NVNT	ac20-MIMO	5745	5650	-59.36	5.04	40.91	Average	54	Pass
NVNT	ac20-MIMO	5745	5700	-49.12	5.04	51.15	Peak	68.2	Pass
NVNT	ac20-MIMO	5745	5700	-59.09	5.04	41.18	Average	54	Pass
NVNT	ac20-MIMO	5745	5720	-46.7	5.04	53.57	Peak	68.2	Pass
NVNT	ac20-MIMO	5745	5720	-57.72	5.04	42.55	Average	54	Pass
NVNT	ac20-MIMO	5745	5725	-43.95	5.04	56.32	Peak	68.2	Pass
NVNT	ac20-MIMO	5745	5725	-54.83	5.04	45.44	Average	54	Pass
NVNT	ac20-MIMO	5825	5850	-40.29	5.04	59.98	Peak	68.2	Pass
NVNT	ac20-MIMO	5825	5850	-55.74	5.04	44.53	Average	54	Pass
NVNT	ac20-MIMO	5825	5855	-46.75	5.04	53.52	Peak	68.2	Pass
NVNT	ac20-MIMO	5825	5855	-57.68	5.04	42.59	Average	54	Pass
NVNT	ac20-MIMO	5825	5875	-48.6	5.04	51.67	Peak	68.2	Pass
NVNT	ac20-MIMO	5825	5875	-59.2	5.04	41.07	Average	54	Pass
NVNT	ac20-MIMO	5825	5925	-48.74	5.04	51.53	Peak	68.2	Pass
NVNT	ac20-MIMO	5825	5925	-59.02	5.04	41.25	Average	54	Pass
NVNT	ac40-MIMO	5755	5650	-48.89	5.04	51.38	Peak	68.2	Pass
NVNT	ac40-MIMO	5755	5650	-59.19	5.04	41.08	Average	54	Pass
NVNT	ac40-MIMO	5755	5700	-48.96	5.04	51.31	Peak	68.2	Pass
NVNT	ac40-MIMO	5755	5700	-58.81	5.04	41.46	Average	54	Pass
NVNT	ac40-MIMO	5755	5720	-41.39	5.04	58.88	Peak	68.2	Pass
NVNT	ac40-MIMO	5755	5720	-56.38	5.04	43.89	Average	54	Pass
NVNT	ac40-MIMO	5755	5725	-43.45	5.04	56.82	Peak	68.2	Pass
NVNT	ac40-MIMO	5755	5725	-54.49	5.04	45.78	Average	54	Pass
NVNT	ac40-MIMO	5795	5850	-49.51	5.04	50.76	Peak	68.2	Pass
NVNT	ac40-MIMO	5795	5850	-59.66	5.04	40.61	Average	54	Pass
NVNT	ac40-MIMO	5795	5855	-49.73	5.04	50.54	Peak	68.2	Pass
NVNT	ac40-MIMO	5795	5855	-59.38	5.04	40.89	Average	54	Pass
NVNT	ac40-MIMO	5795	5875	-49.95	5.04	50.32	Peak	68.2	Pass
NVNT	ac40-MIMO	5795	5875	-59.24	5.04	41.03	Average	54	Pass





NVNT	ac40-MIMO	5795	5925	-50.73	5.04	49.54	Peak	68.2	Pass
NVNT	ac40-MIMO	5795	5925	-58.79	5.04	41.48	Average	54	Pass
NVNT	ac80-MIMO	5775	5650	-49.58	5.04	50.69	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5650	-59.26	5.04	41.01	Average	54	Pass
NVNT	ac80-MIMO	5775	5700	-49.98	5.04	50.29	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5700	-58.21	5.04	42.06	Average	54	Pass
NVNT	ac80-MIMO	5775	5720	-45.97	5.04	54.30	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5720	-55.75	5.04	44.52	Average	54	Pass
NVNT	ac80-MIMO	5775	5725	-46.48	5.04	53.79	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5725	-54.58	5.04	45.69	Average	54	Pass
NVNT	ac80-MIMO	5775	5850	-48.28	5.04	51.99	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5850	-57.18	5.04	43.09	Average	54	Pass
NVNT	ac80-MIMO	5775	5855	-49.95	5.04	50.32	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5855	-58.26	5.04	42.01	Average	54	Pass
NVNT	ac80-MIMO	5775	5875	-50.95	5.04	49.32	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5875	-58.69	5.04	41.58	Average	54	Pass
NVNT	ac80-MIMO	5775	5925	-49.9	5.04	50.37	Peak	68.2	Pass
NVNT	ac80-MIMO	5775	5925	-58.02	5.04	42.25	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna data.

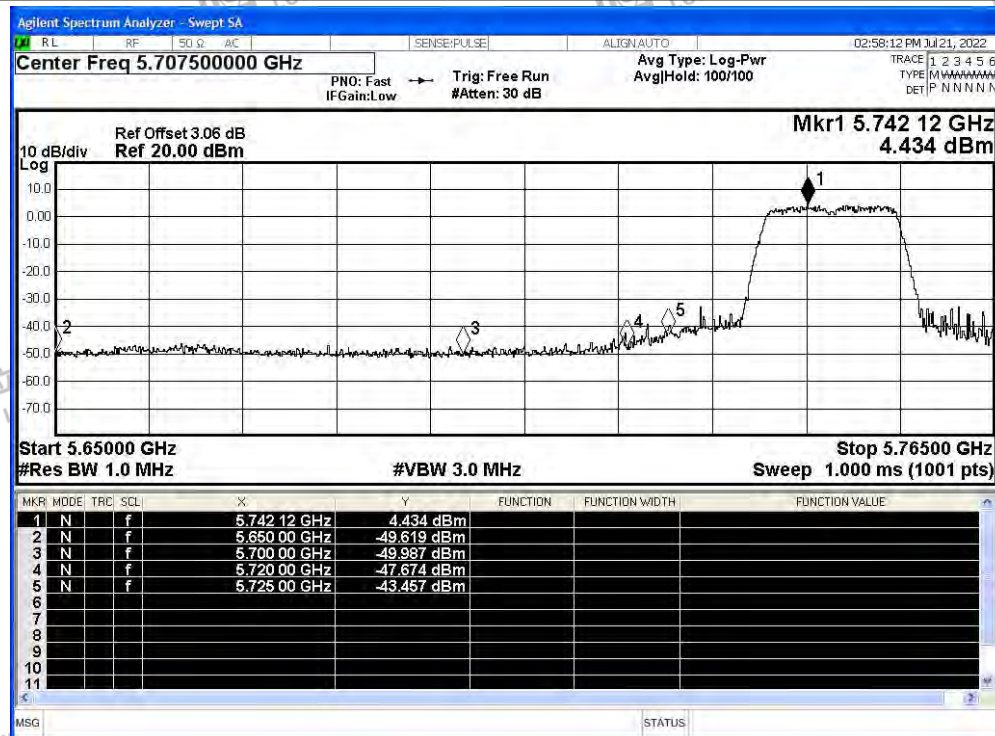


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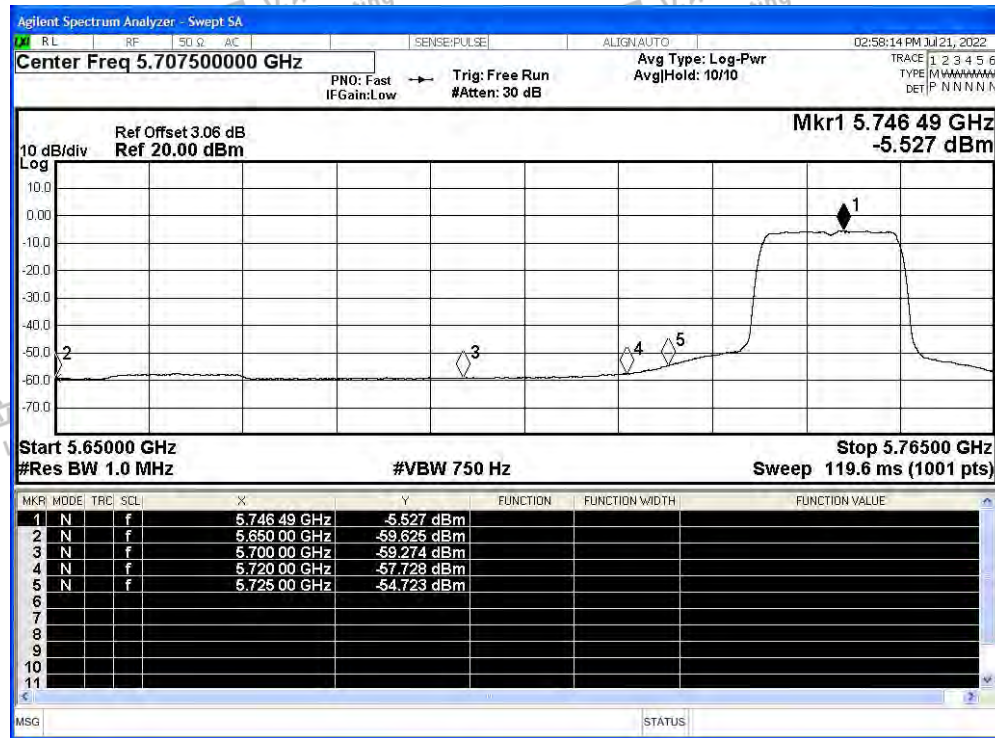


Test Graphs

Restrict Band NVNT a 5745MHz Peak

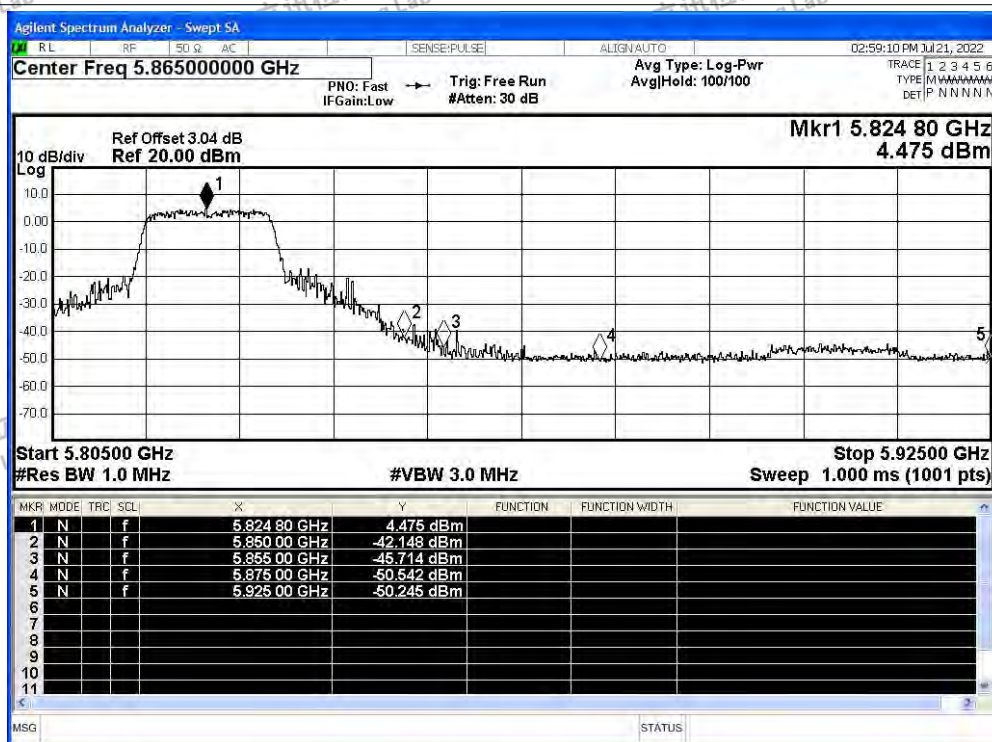


Restrict Band NVNT a 5745MHz Average

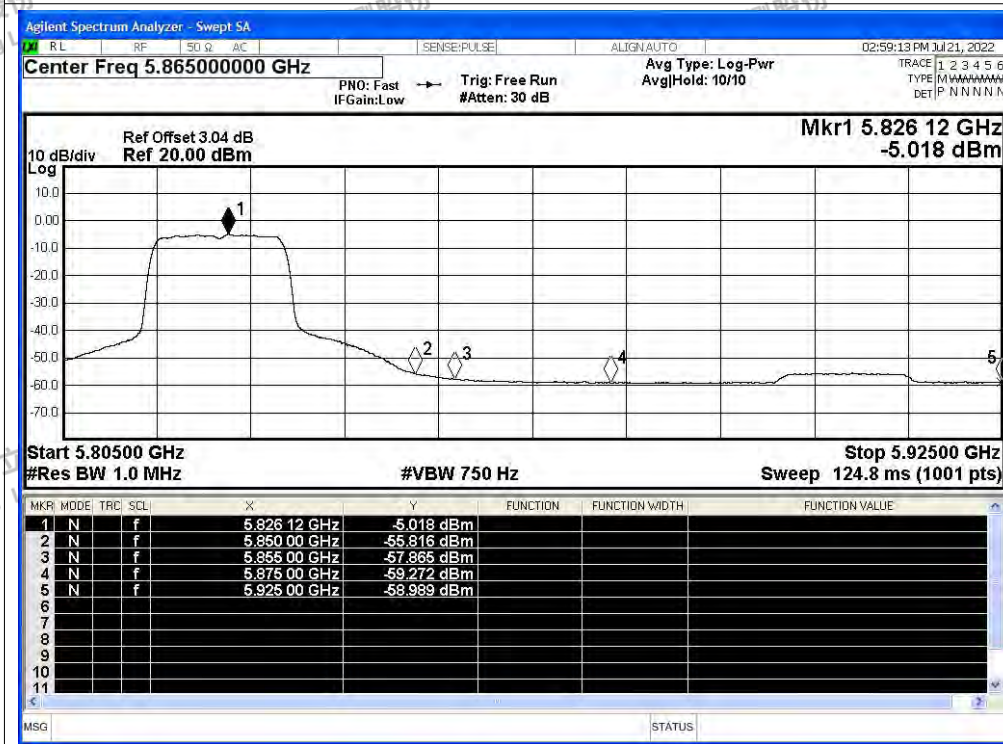




Restrict Band NVNT a 5825MHz Peak



Restrict Band NVNT a 5825MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

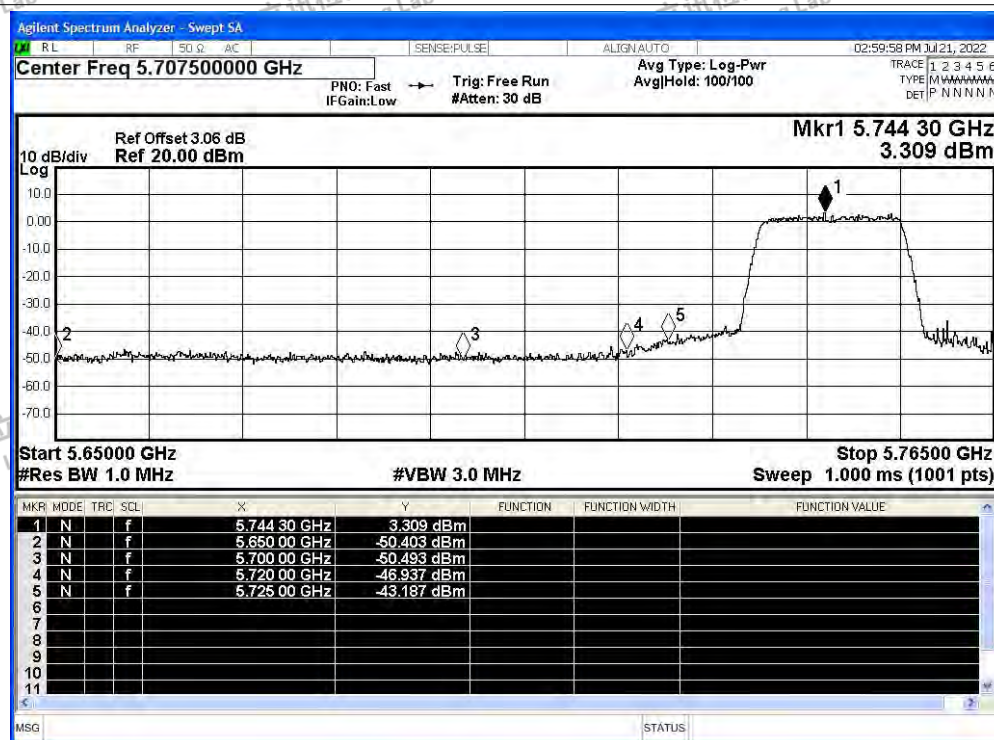
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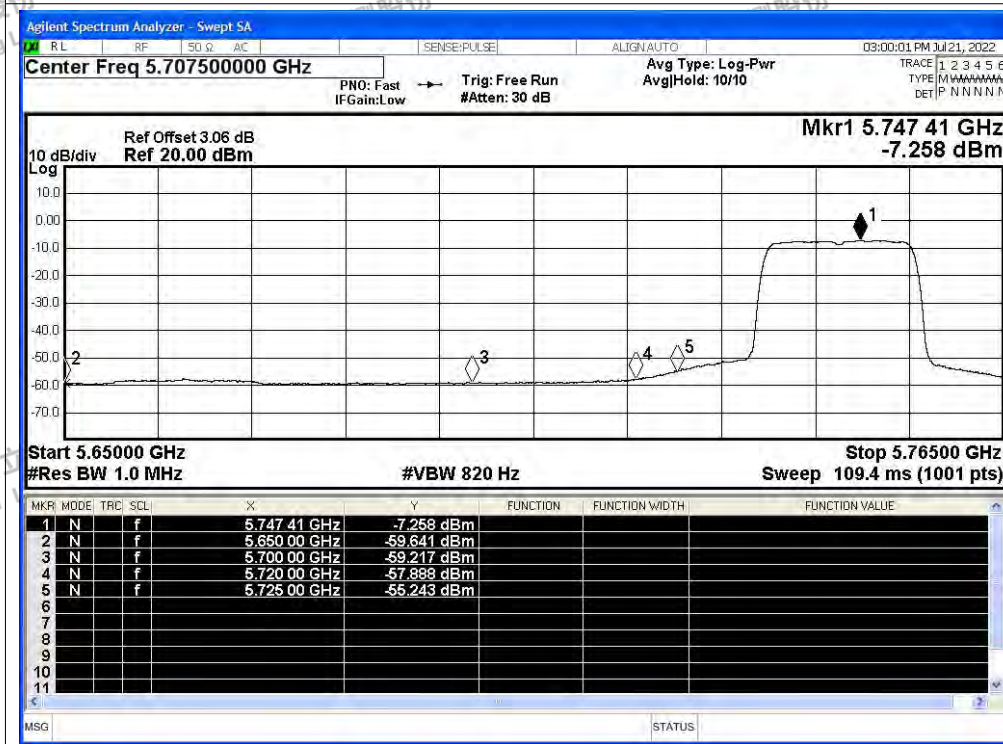
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Restrict Band NVNT n20-MIMO 5745MHz Peak

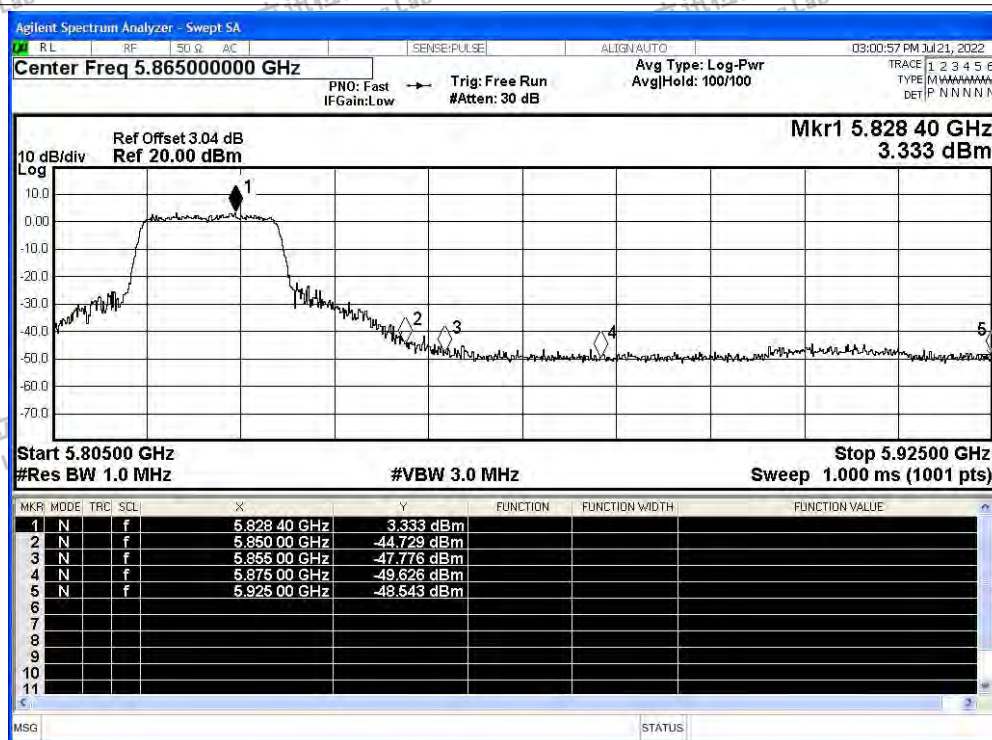


Restrict Band NVNT n20-MIMO 5745MHz Average

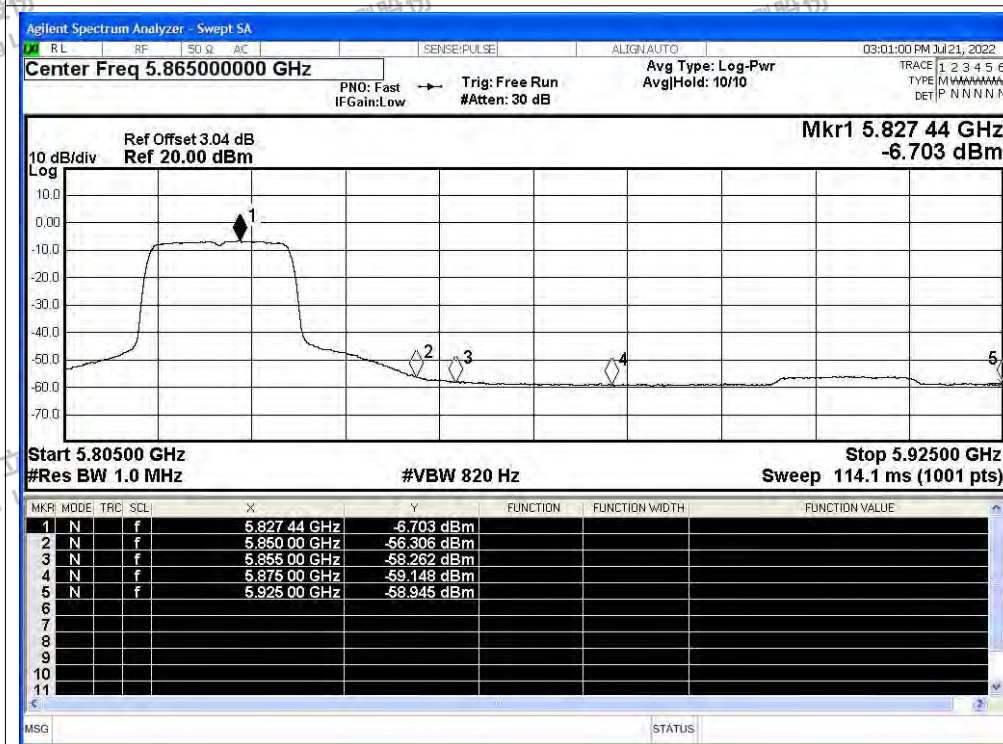




Restrict Band NVNT n20-MIMO 5825MHz Peak

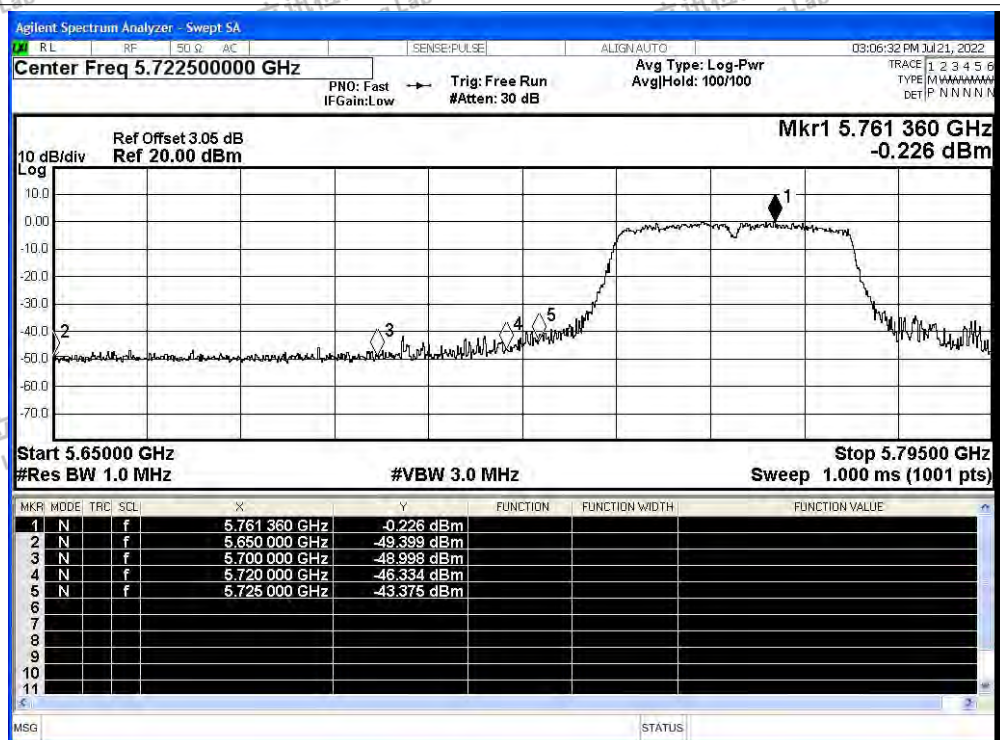


Restrict Band NVNT n20-MIMO 5825MHz Average

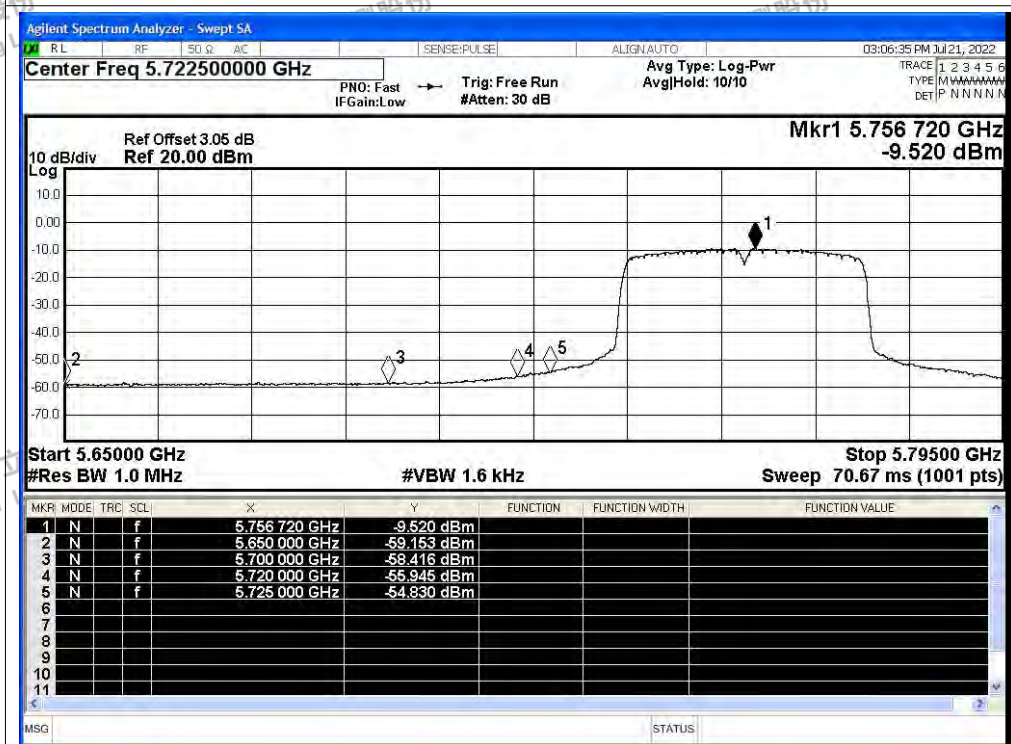




Restrict Band NVNT n40-MIMO 5755MHz Peak

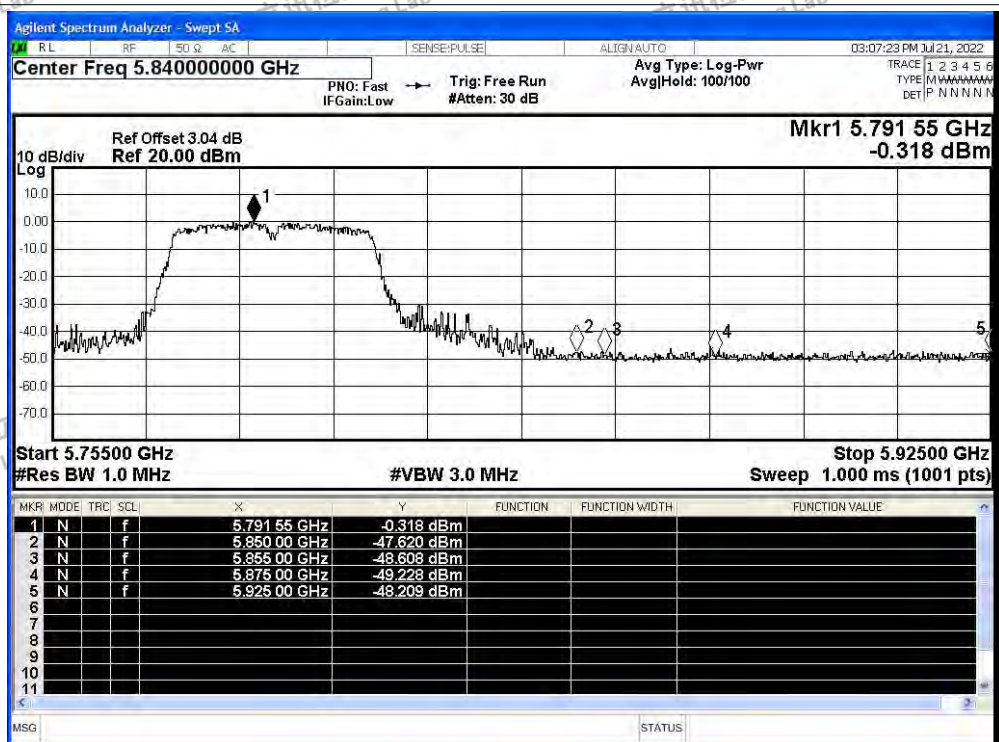


Restrict Band NVNT n40-MIMO 5755MHz Average

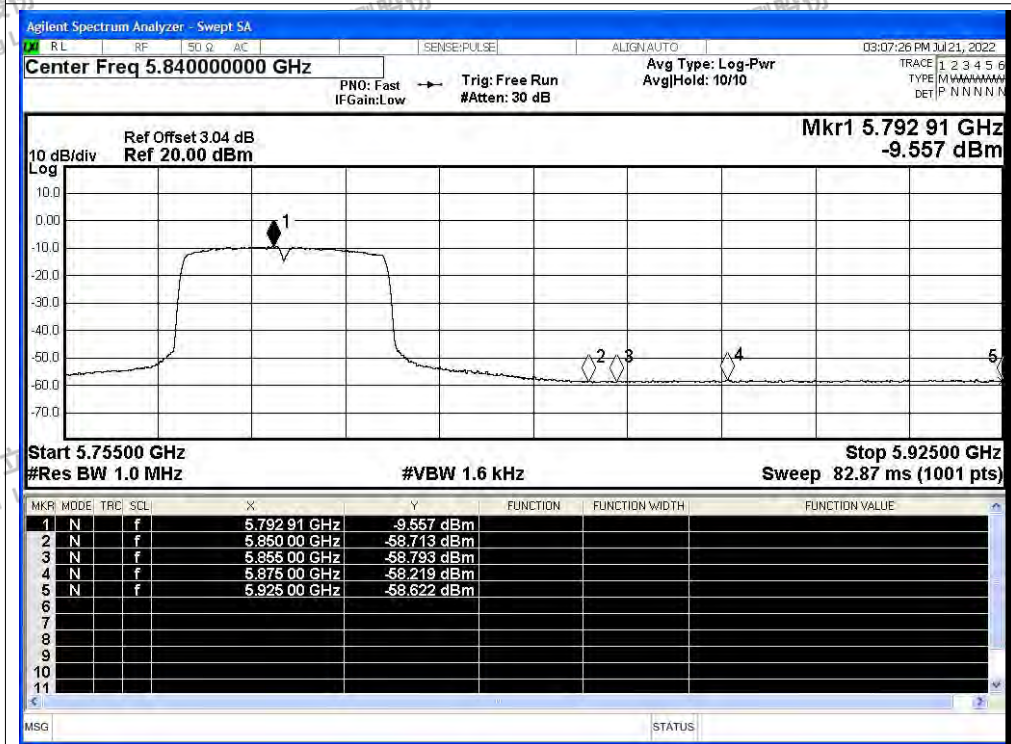




Restrict Band NVNT n40-MIMO 5795MHz Peak

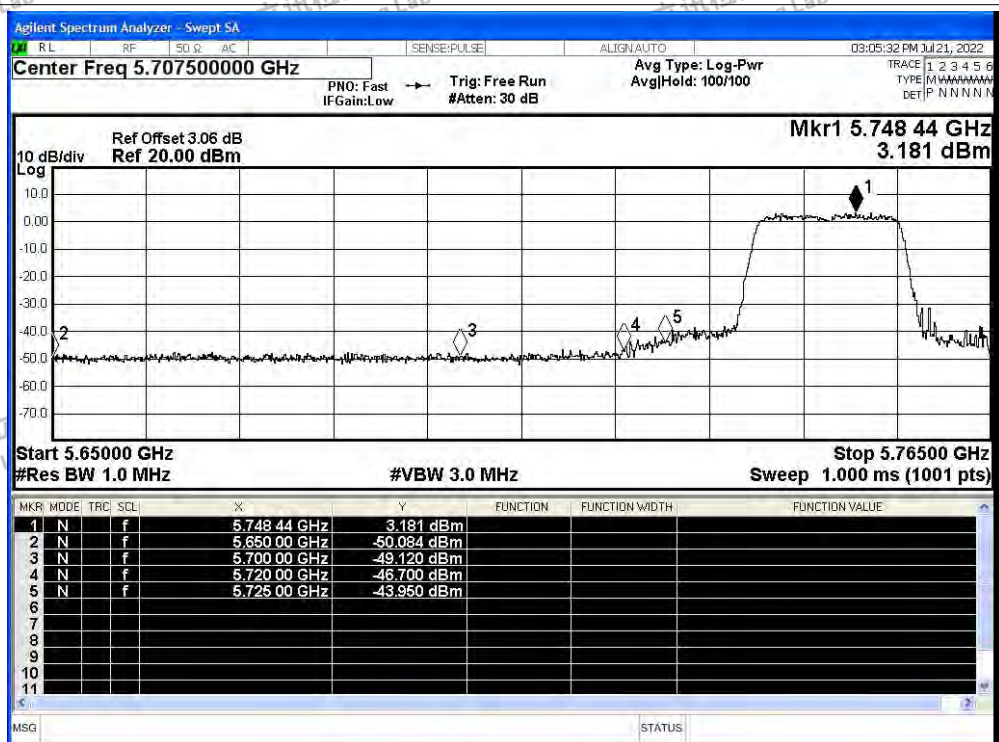


Restrict Band NVNT n40-MIMO 5795MHz Average

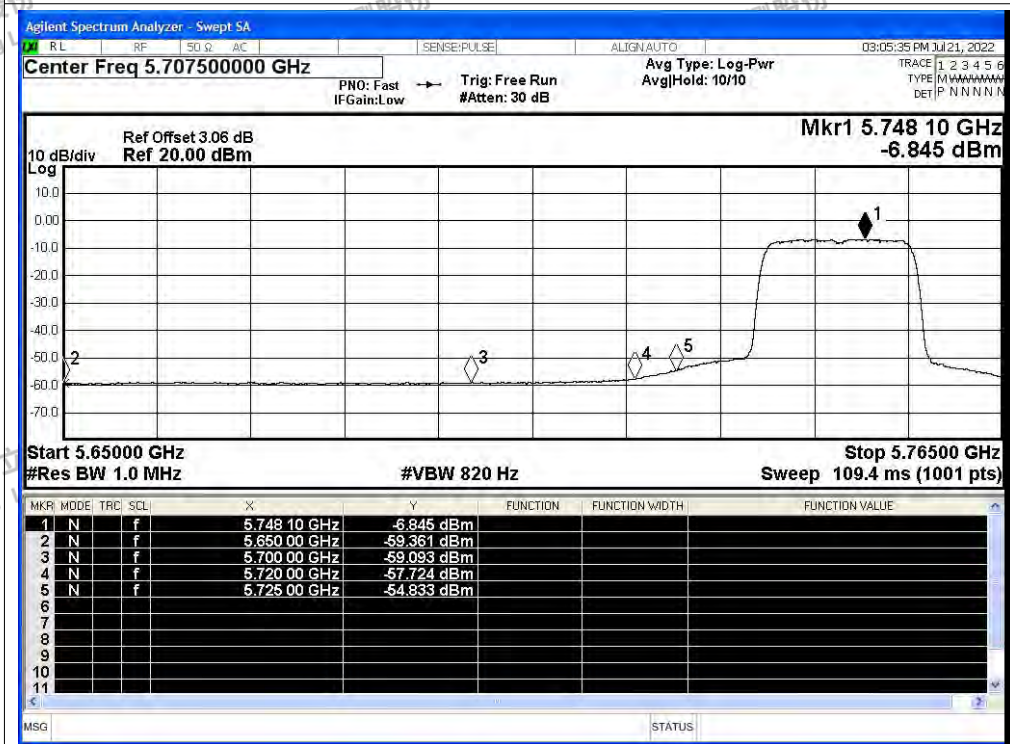




Restrict Band NVNT ac20-MIMO 5745MHz Peak

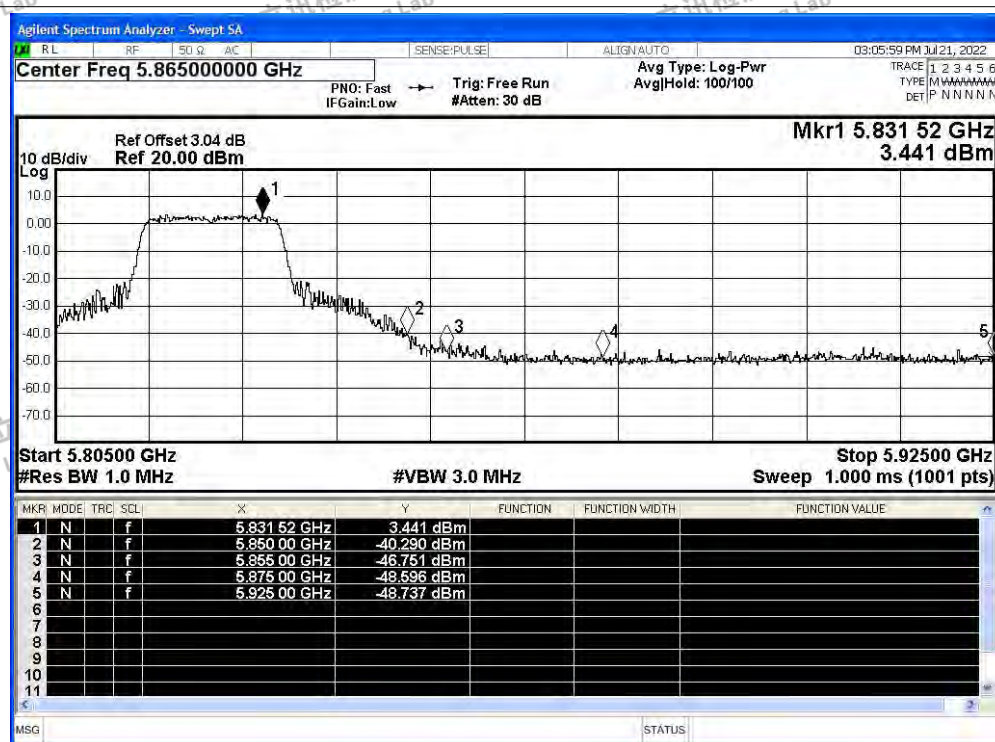


Restrict Band NVNT ac20-MIMO 5745MHz Average

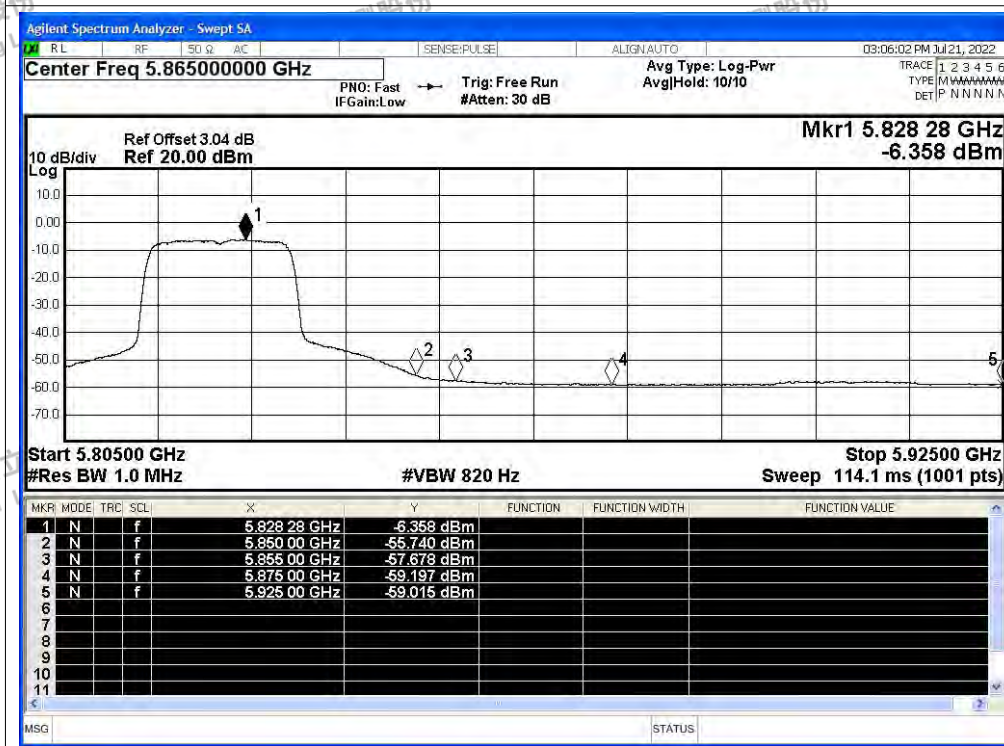




Restrict Band NVNT ac20-MIMO 5825MHz Peak

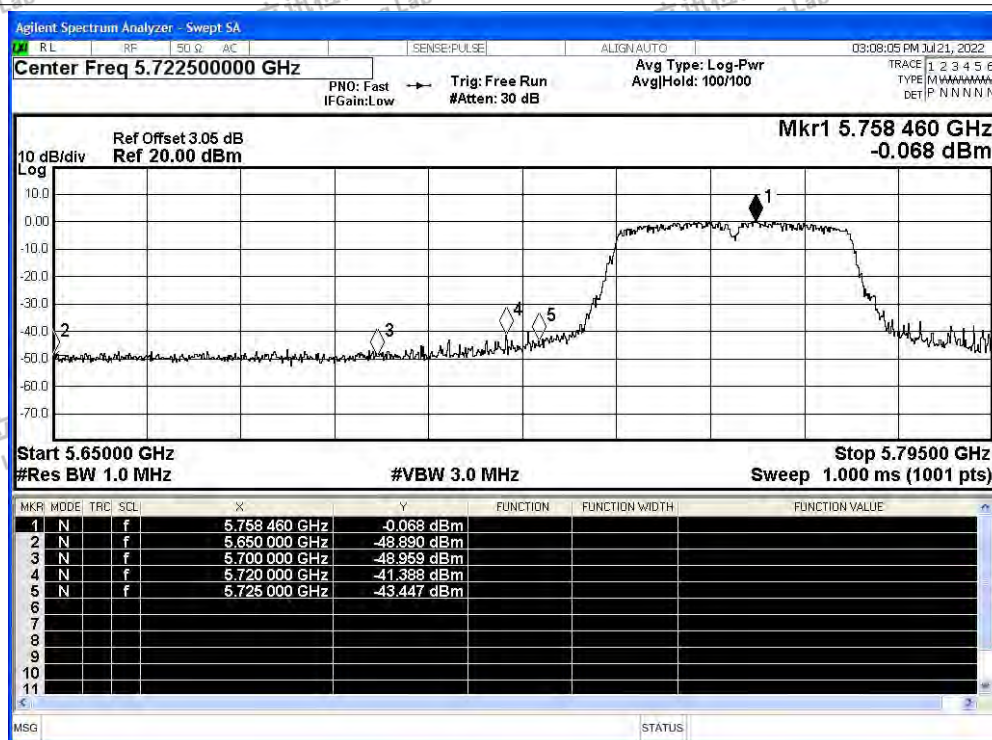


Restrict Band NVNT ac20-MIMO 5825MHz Average

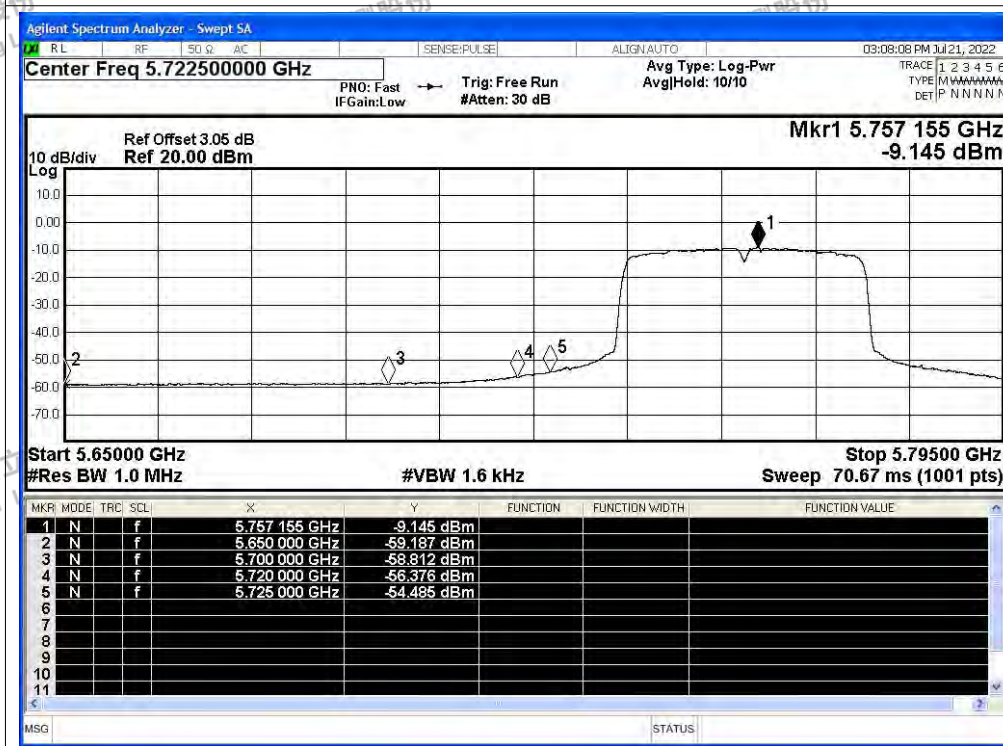




Restrict Band NVNT ac40-MIMO 5755MHz Peak

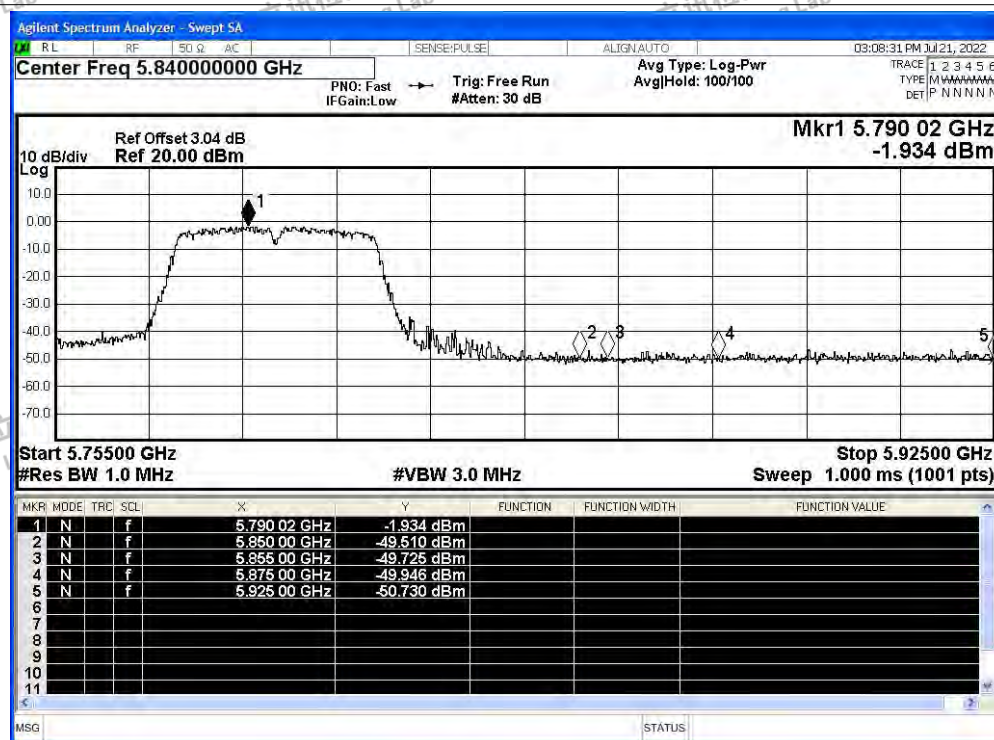


Restrict Band NVNT ac40-MIMO 5755MHz Average

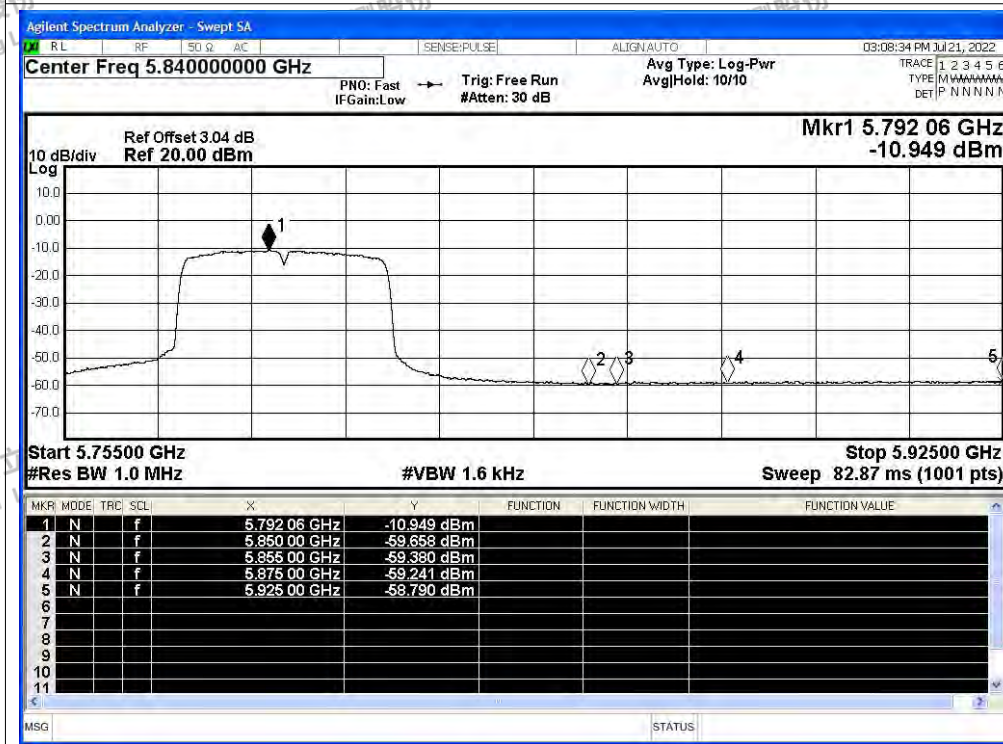




Restrict Band NVNT ac40-MIMO 5795MHz Peak

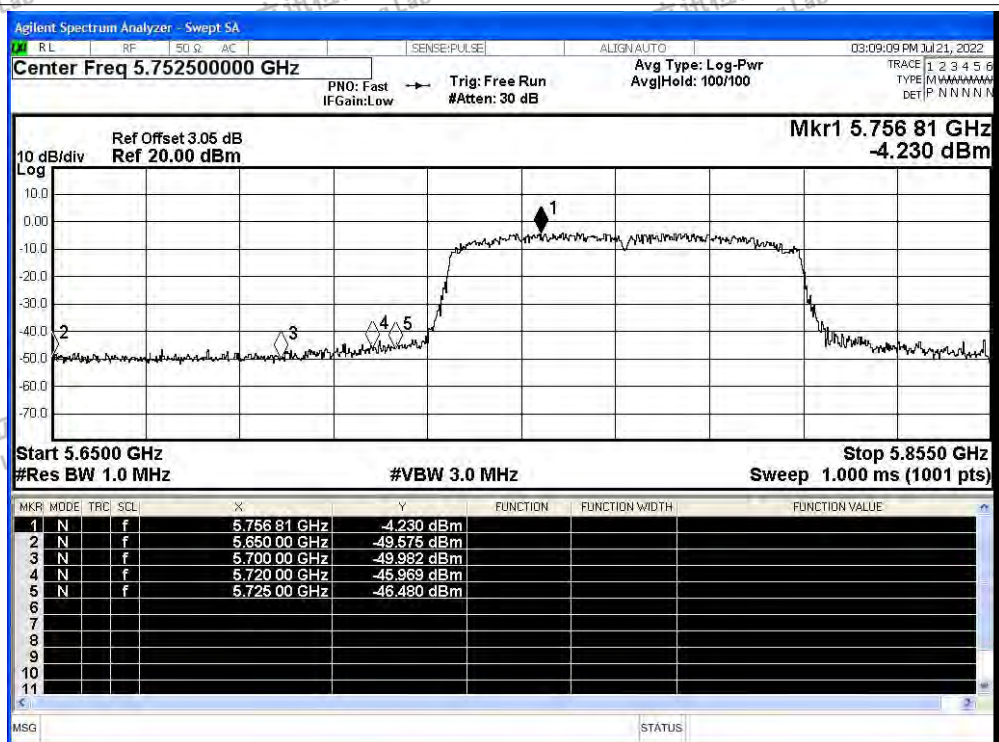


Restrict Band NVNT ac40-MIMO 5795MHz Average

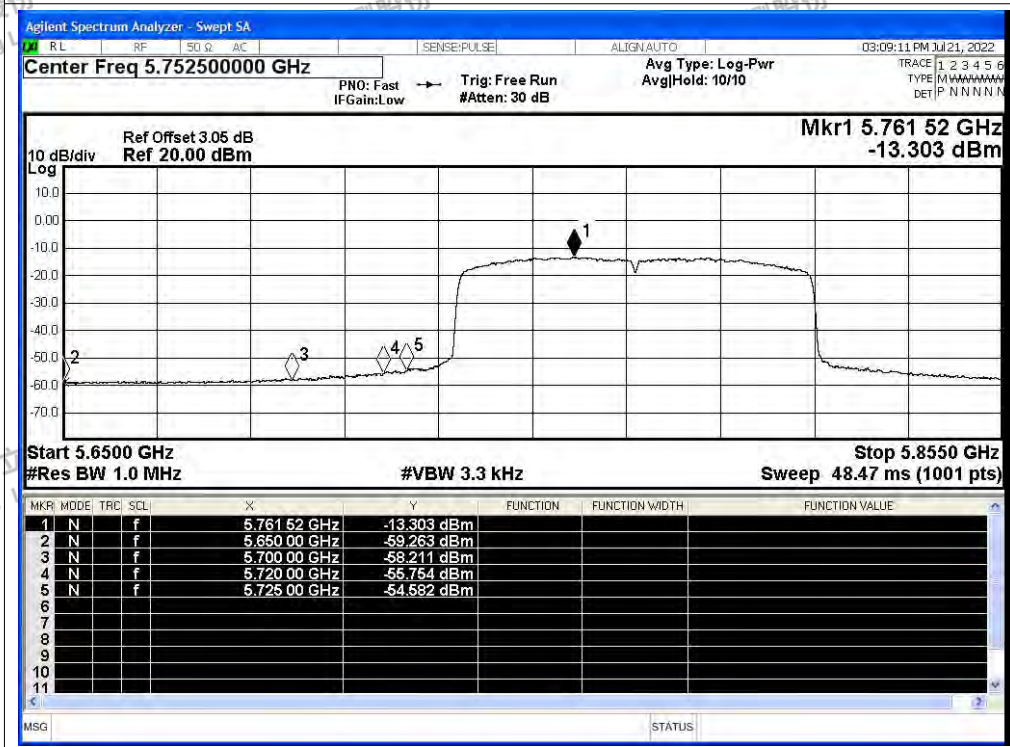




Restrict Band NVNT ac80-MIMO 5775MHz Peak



Restrict Band NVNT ac80-MIMO 5775MHz Average



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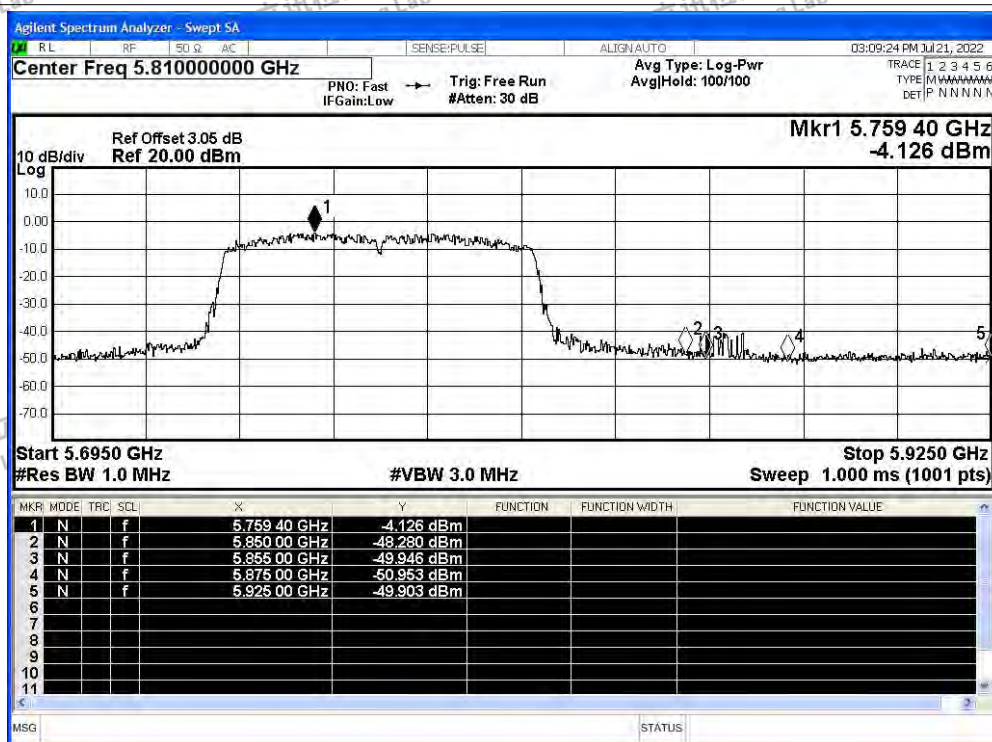
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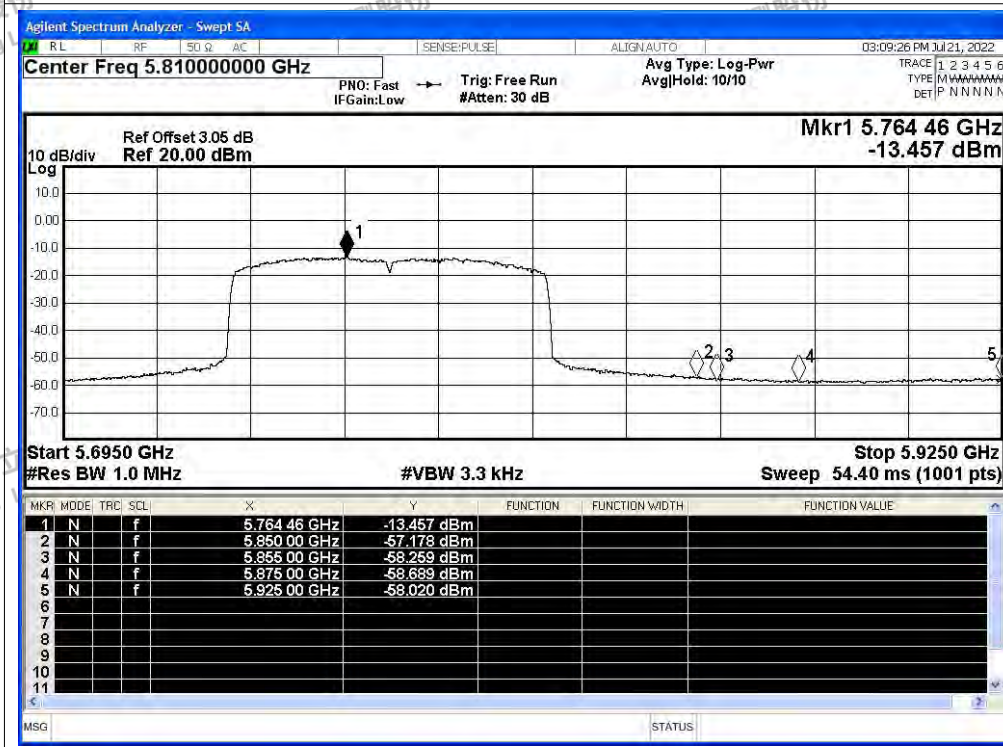
Scan code to check authenticity



Restrict Band NVNT ac80-MIMO 5775MHz Peak



Restrict Band NVNT ac80-MIMO 5775MHz Average





E.5 Frequency Stability

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5745	Ant1	5745	0	0	25	Pass
NVNT	ac20	5785	Ant1	5785	0	0	25	Pass
NVNT	ac20	5825	Ant1	5825	0	0	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

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant2	5785	0	0	25	Pass
NVNT	ac20	5825	Ant2	5825	0	0	25	Pass
NVNT	ac40	5755	Ant2	5755	0	0	25	Pass
NVNT	ac40	5795	Ant2	5795	0	0	25	Pass
NVNT	ac80	5775	Ant2	5775	0	0	25	Pass

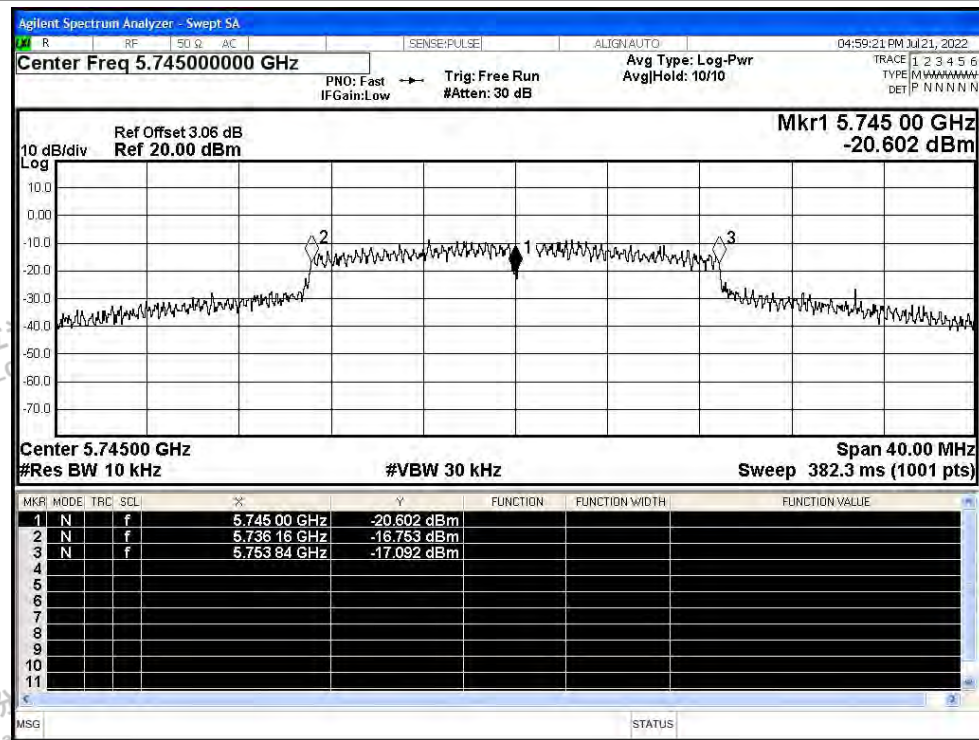


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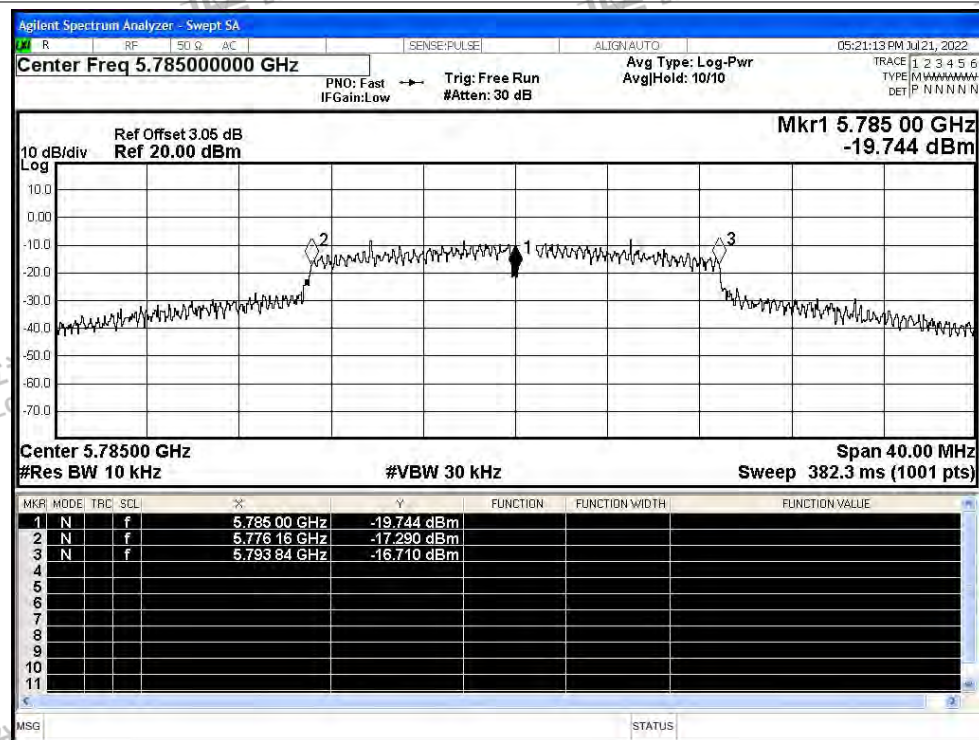


ANT1:

Freq. Stability NVNT ac20 5745MHz Ant1

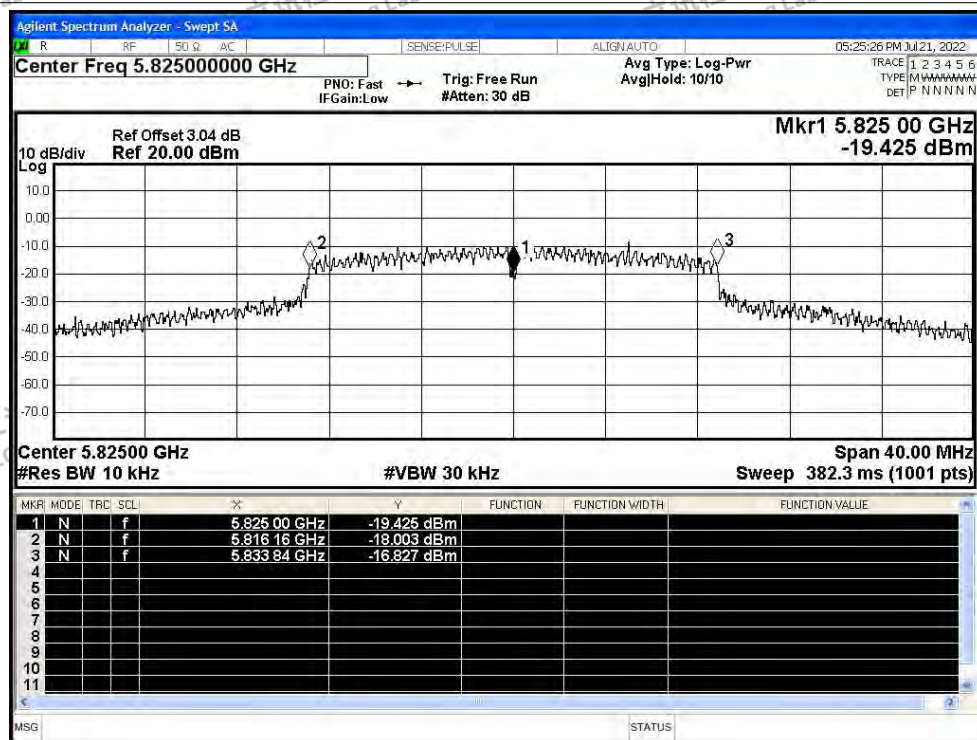


Freq. Stability NVNT ac20 5785MHz Ant1

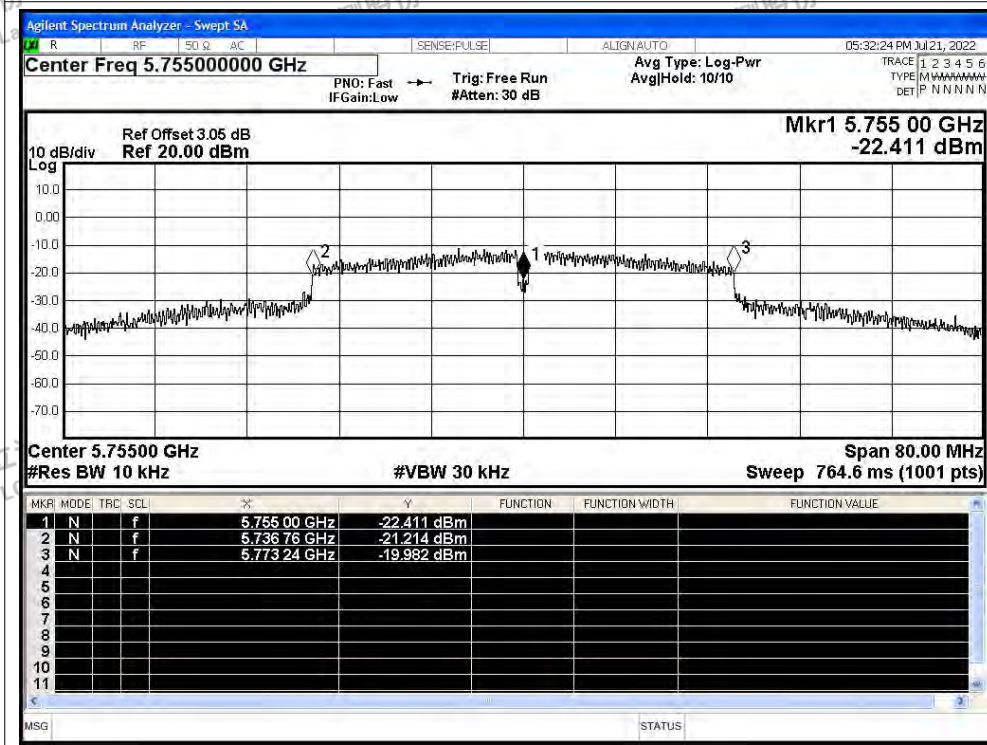




Freq. Stability NVNT ac20 5825MHz Ant1

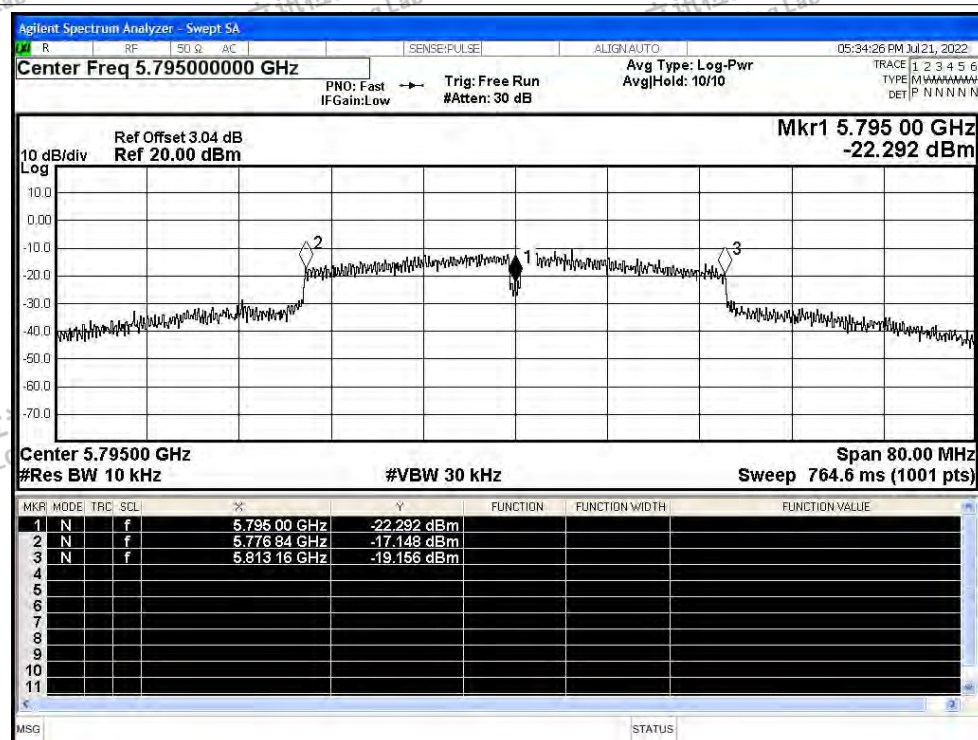


Freq. Stability NVNT ac40 5755MHz Ant1

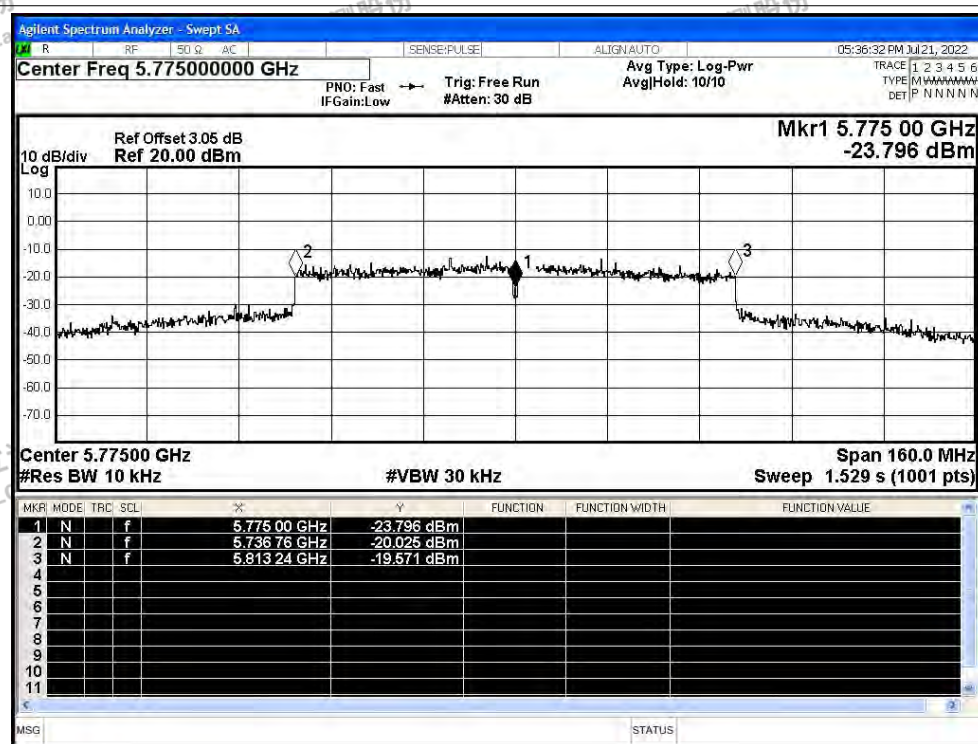




Freq. Stability NVNT ac40 5795MHz Ant1



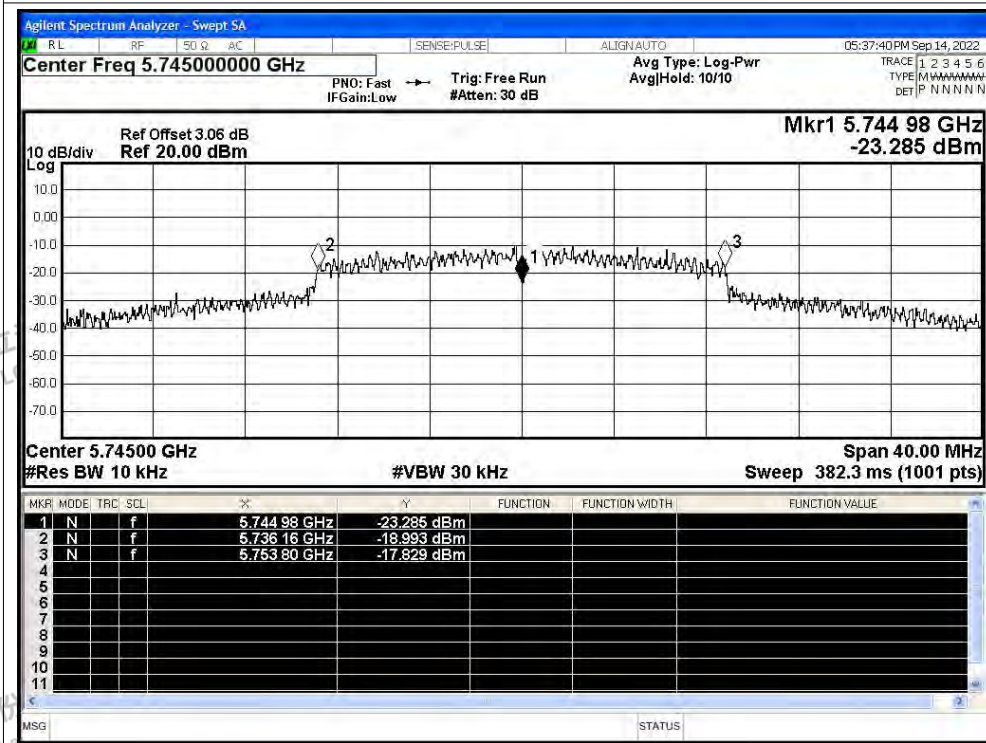
Freq. Stability NVNT ac80 5775MHz Ant1



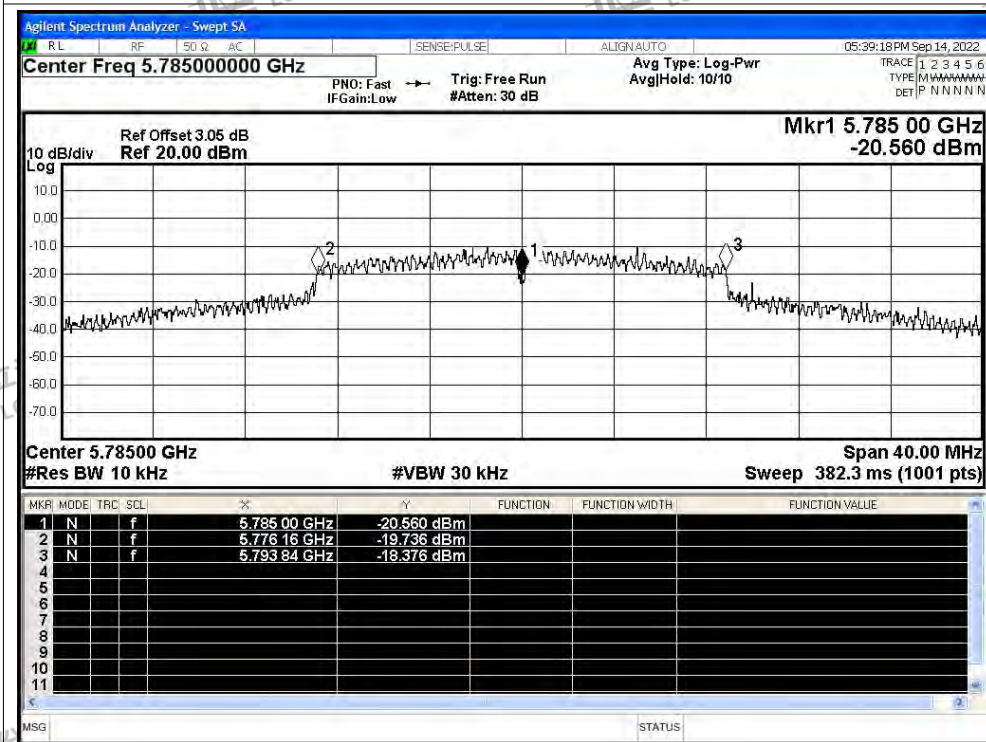


ANT2:

Freq. Stability NVNT ac20 5745MHz Ant2

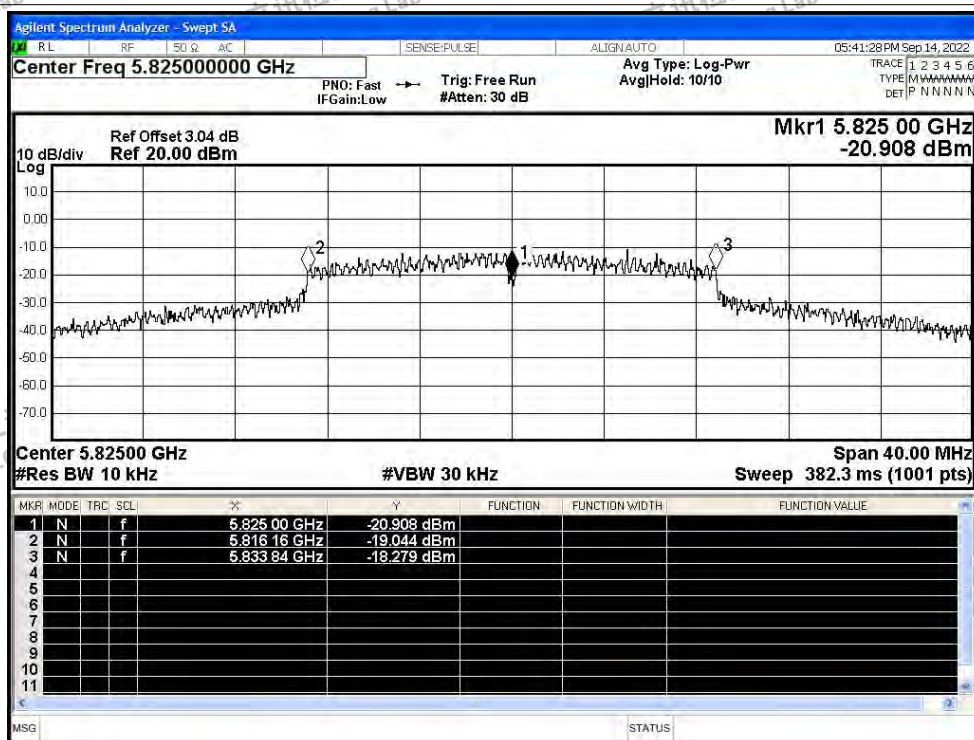


Freq. Stability NVNT ac20 5785MHz Ant2

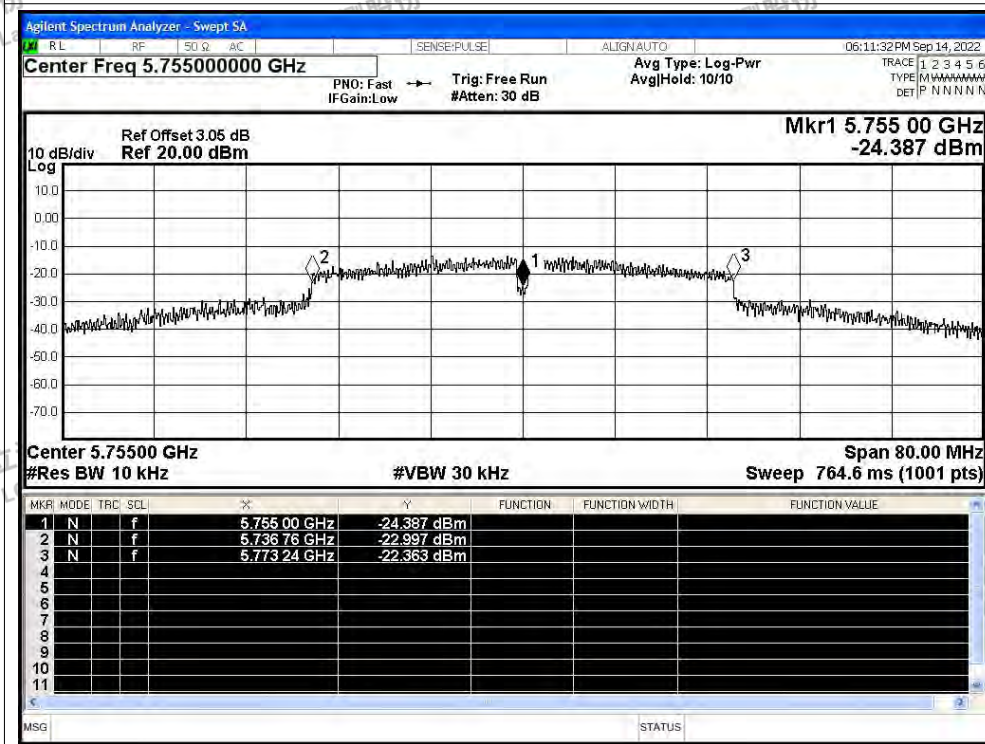




Freq. Stability NVNT ac20 5825MHz Ant2

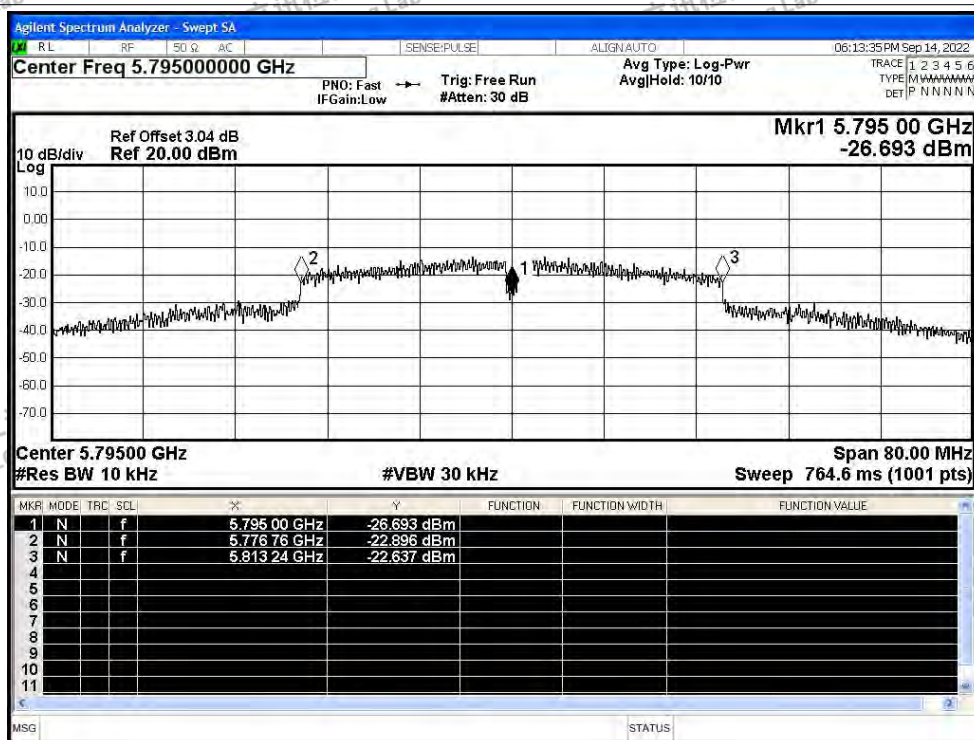


Freq. Stability NVNT ac40 5755MHz Ant2

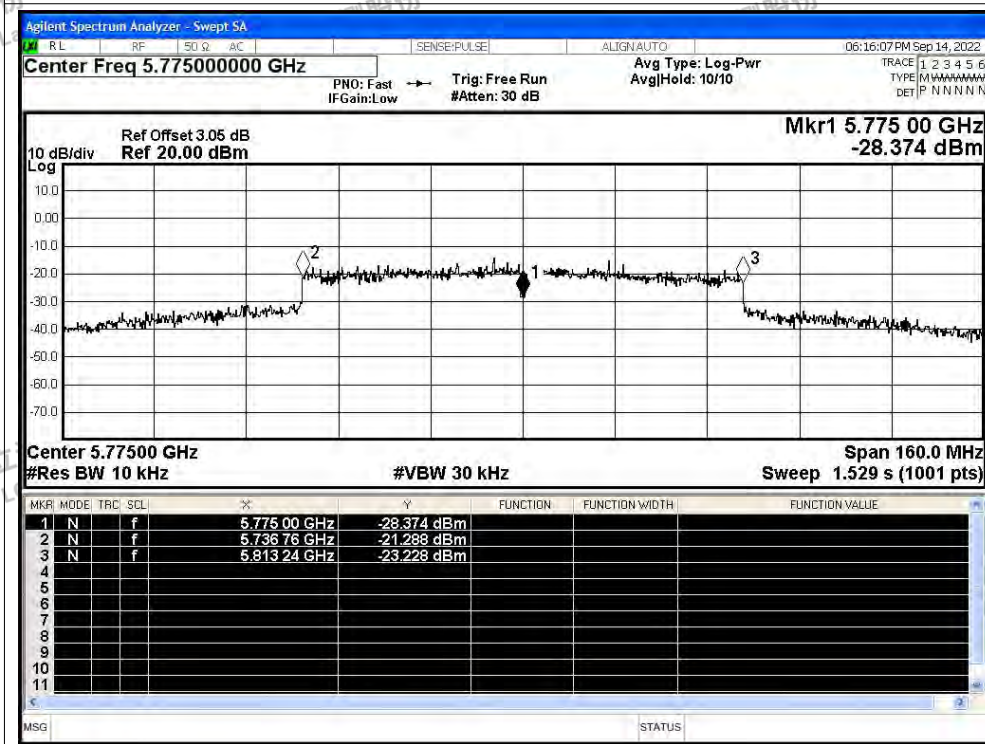




Freq. Stability NVNT ac40 5795MHz Ant2



Freq. Stability NVNT ac80 5775MHz Ant2





E.6 Duty Cycle

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.48	0.11	0.72
NVNT	a	5785	Ant1	97.55	0.11	0.72
NVNT	a	5825	Ant1	97.55	0.11	0.72
NVNT	n20	5745	Ant1	97.38	0.12	0.77
NVNT	n20	5785	Ant1	97.38	0.12	0.77
NVNT	n20	5825	Ant1	97.38	0.12	0.77
NVNT	n40	5755	Ant1	95.03	0.22	1.54
NVNT	n40	5795	Ant1	94.88	0.23	1.54
NVNT	ac20	5745	Ant1	97.4	0.11	0.76
NVNT	ac20	5785	Ant1	97.33	0.12	0.76
NVNT	ac20	5825	Ant1	97.4	0.11	0.76
NVNT	ac40	5755	Ant1	95.06	0.22	1.53
NVNT	ac40	5795	Ant1	95.05	0.22	1.53
NVNT	ac80	5775	Ant1	90.53	0.43	3.08

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant2	97.48	0.11	0.72
NVNT	a	5785	Ant2	97.55	0.11	0.72
NVNT	a	5825	Ant2	97.55	0.11	0.72
NVNT	n20	5745	Ant2	97.38	0.12	0.77
NVNT	n20	5785	Ant2	97.31	0.12	0.77
NVNT	n20	5825	Ant2	97.31	0.12	0.77
NVNT	n40	5755	Ant2	94.88	0.23	1.54
NVNT	n40	5795	Ant2	94.88	0.23	1.54
NVNT	ac20	5745	Ant2	97.4	0.11	0.76
NVNT	ac20	5785	Ant2	97.4	0.11	0.76
NVNT	ac20	5825	Ant2	97.33	0.12	0.76
NVNT	ac40	5755	Ant2	94.91	0.23	1.53
NVNT	ac40	5795	Ant2	94.91	0.23	1.53
NVNT	ac80	5775	Ant2	90.56	0.43	3.07

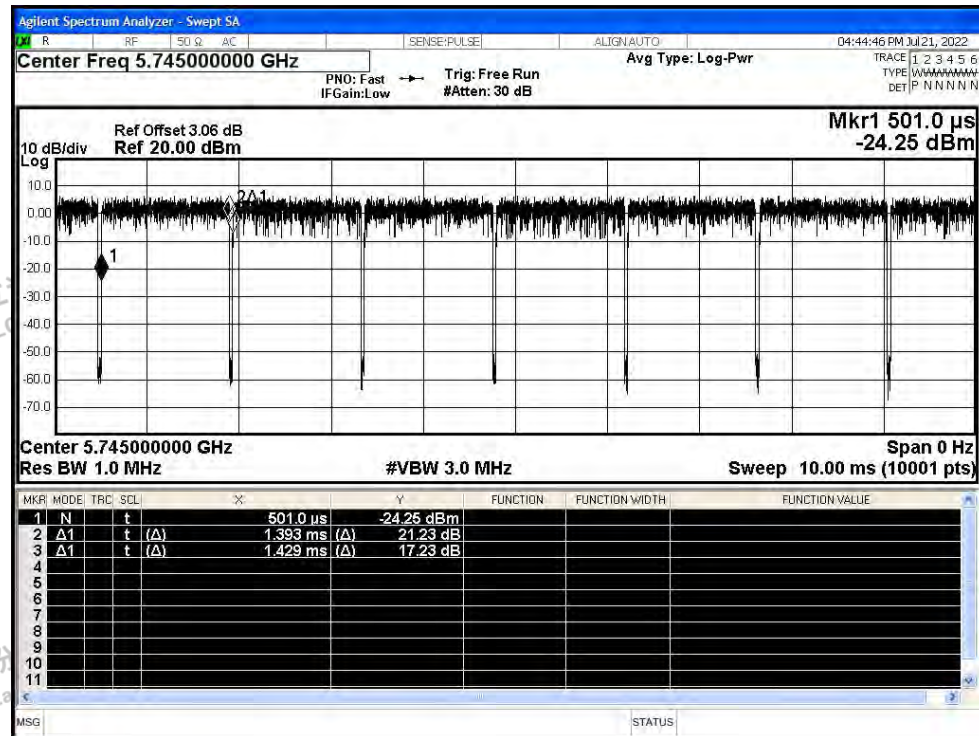




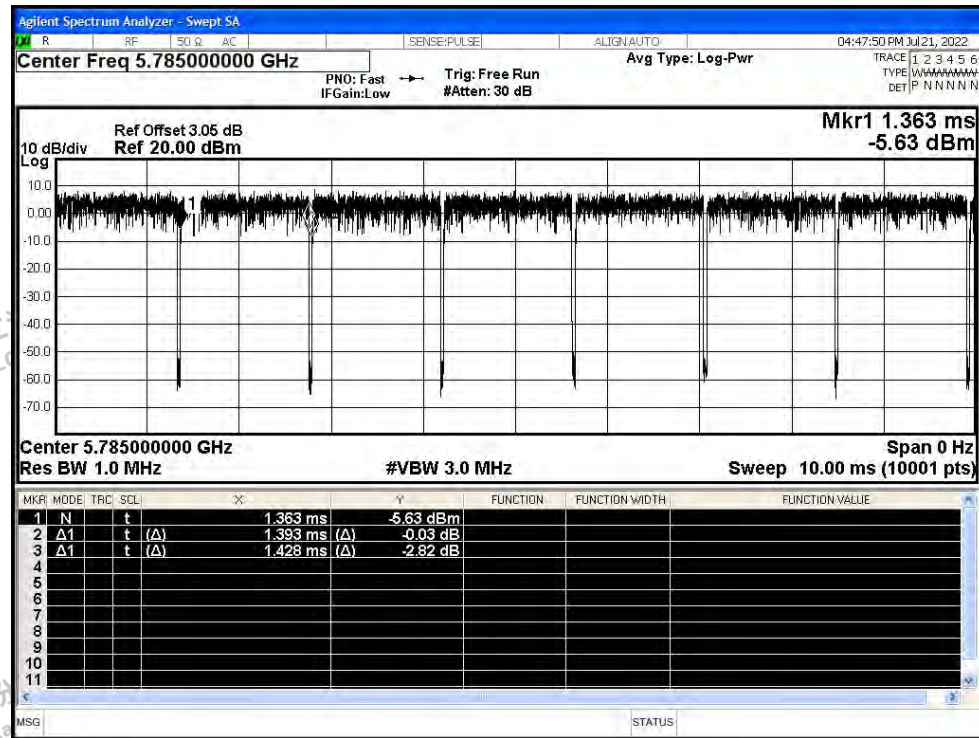
ANT1:

Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

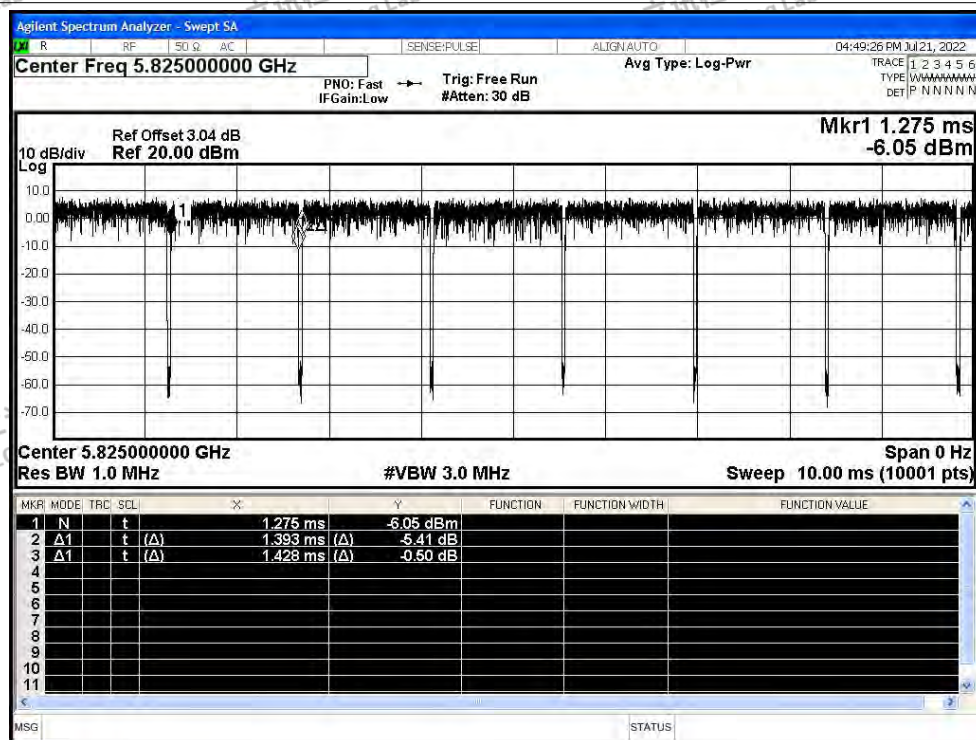


Duty Cycle NVNT a 5785MHz Ant1

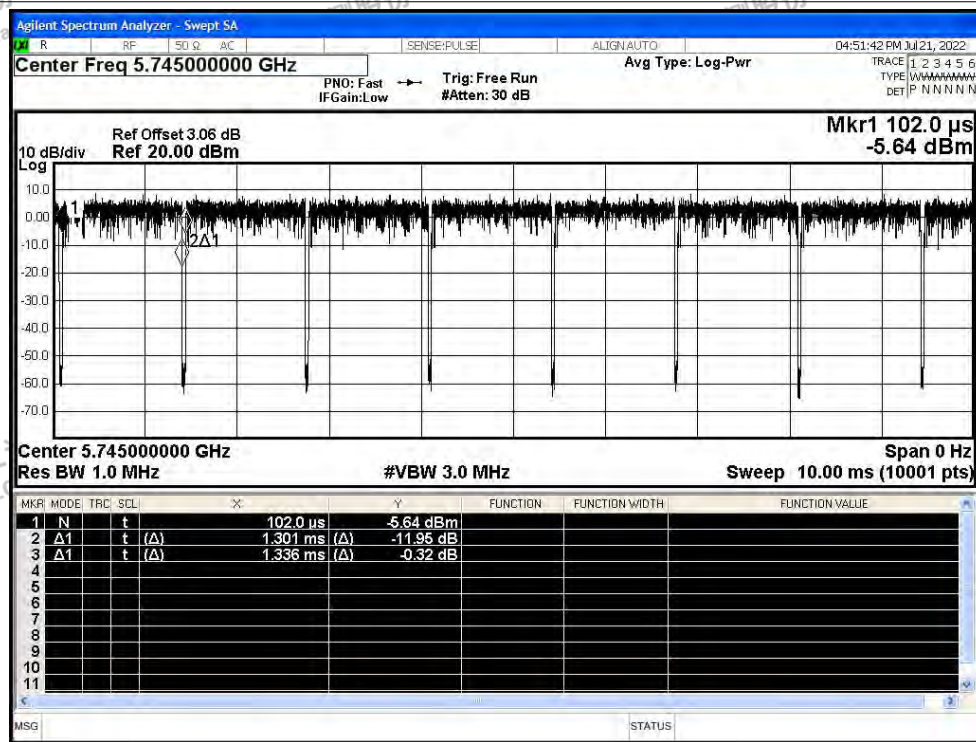




Duty Cycle NVNT a 5825MHz Ant1

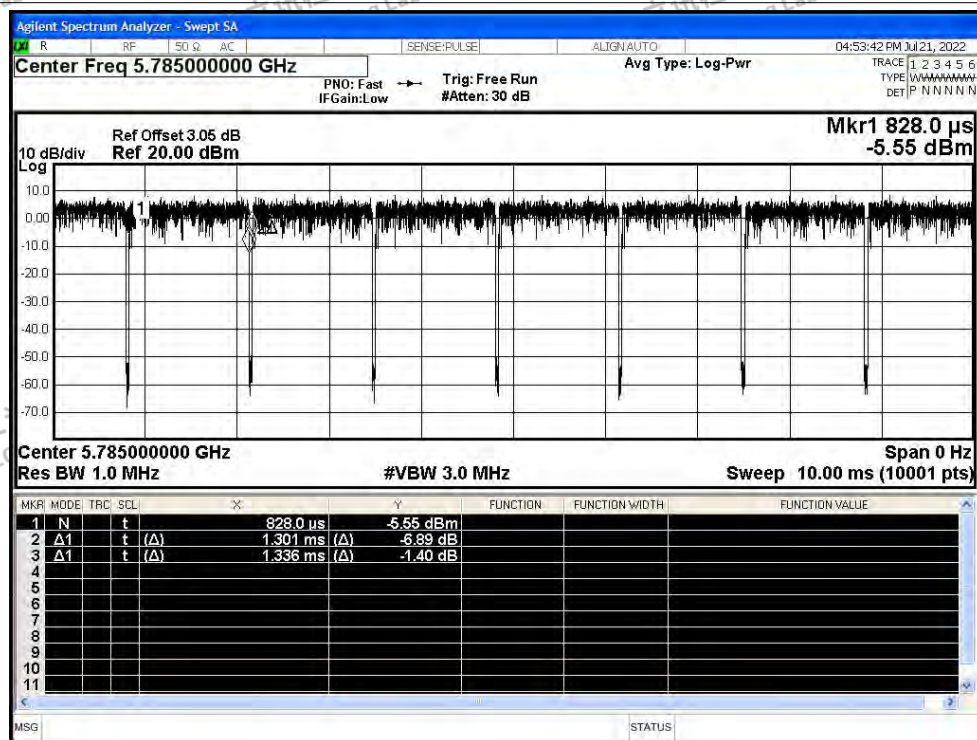


Duty Cycle NVNT n20 5745MHz Ant1

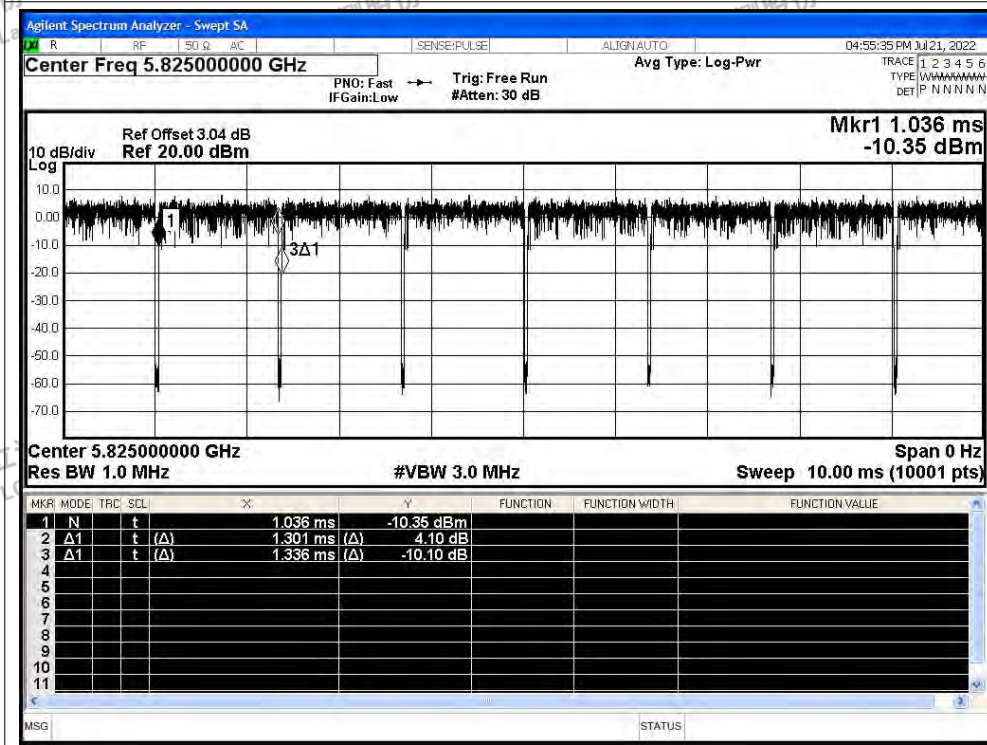




Duty Cycle NVNT n20 5785MHz Ant1

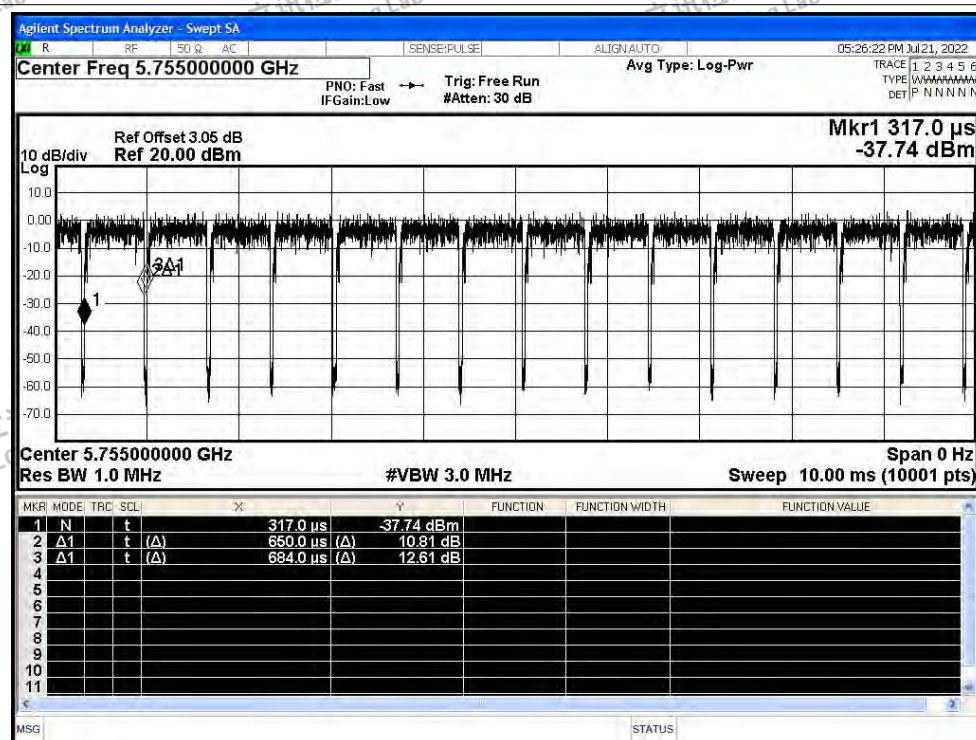


Duty Cycle NVNT n20 5825MHz Ant1

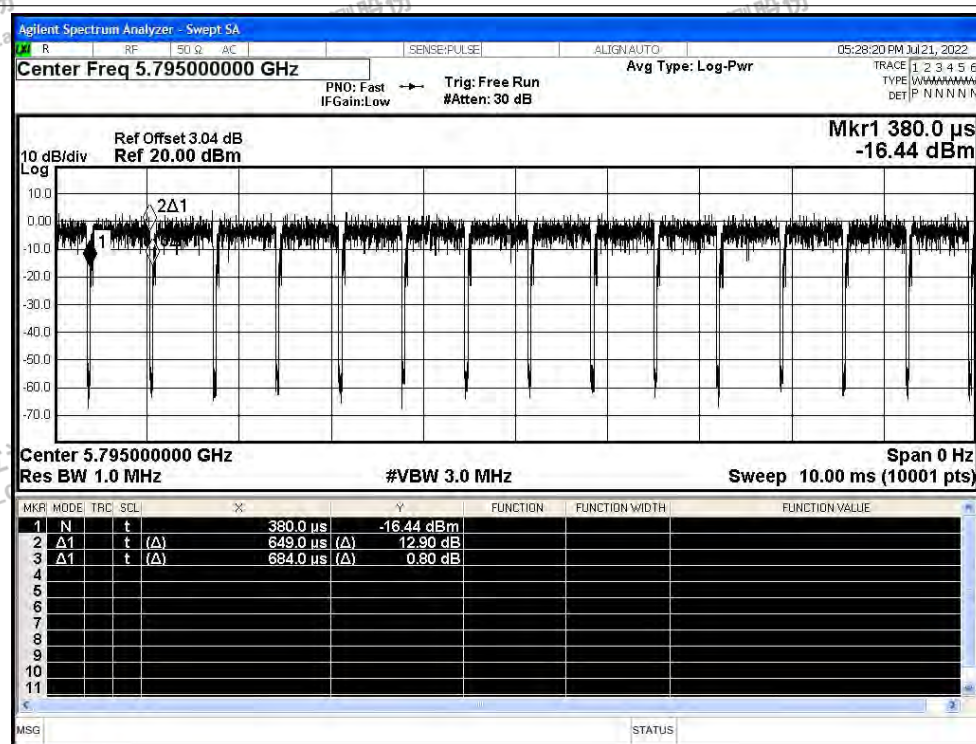




Duty Cycle NVNT n40 5755MHz Ant1

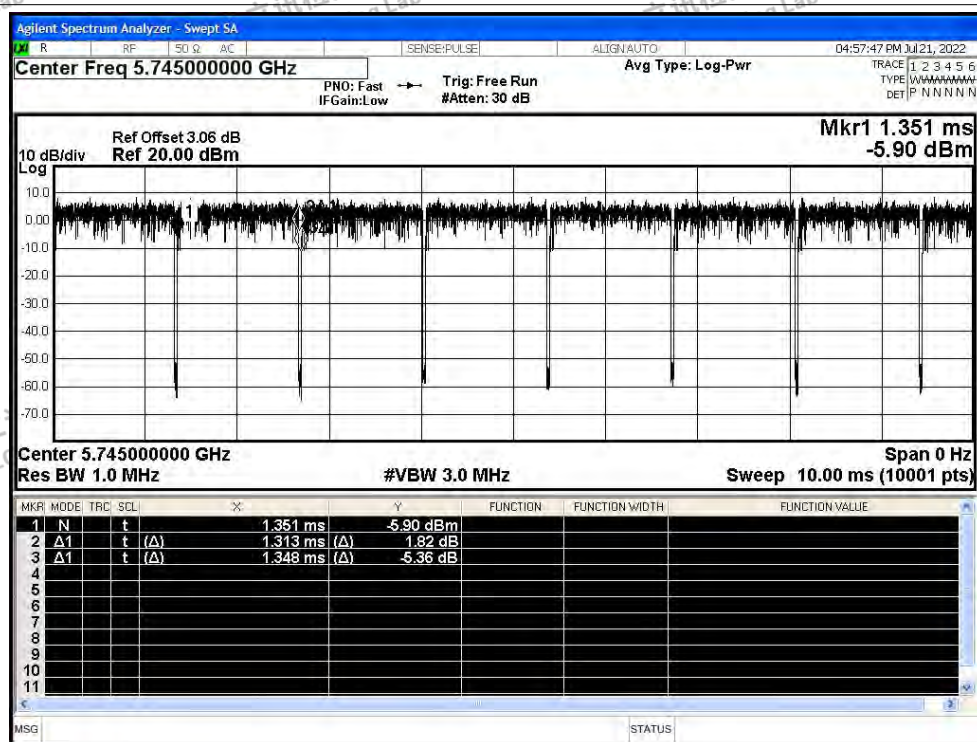


Duty Cycle NVNT n40 5795MHz Ant1

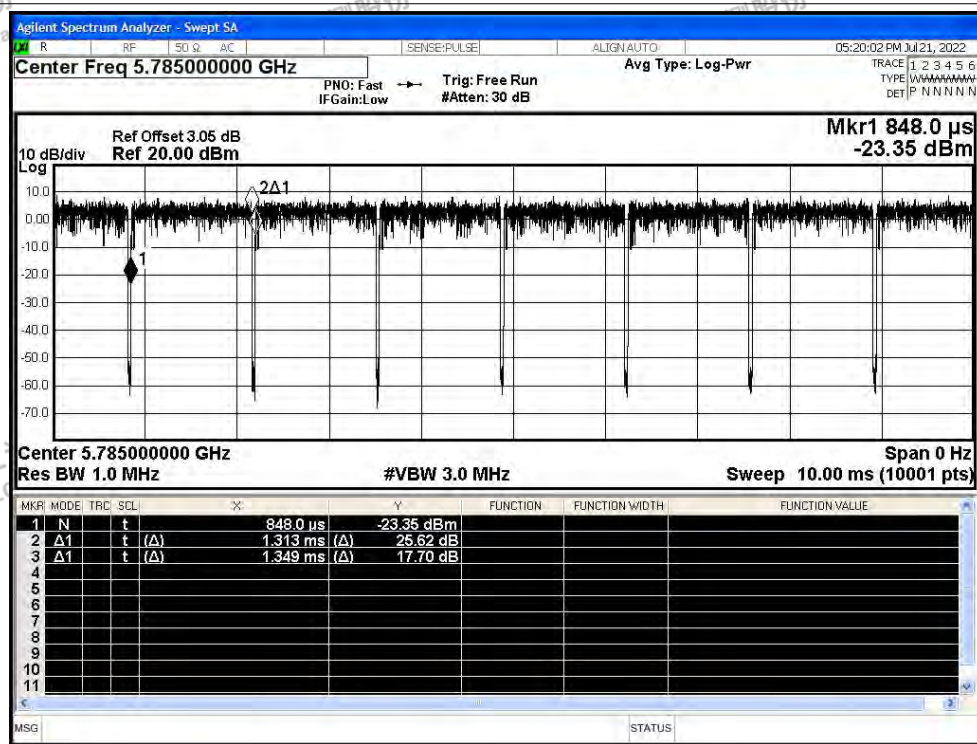




Duty Cycle NVNT ac20 5745MHz Ant1

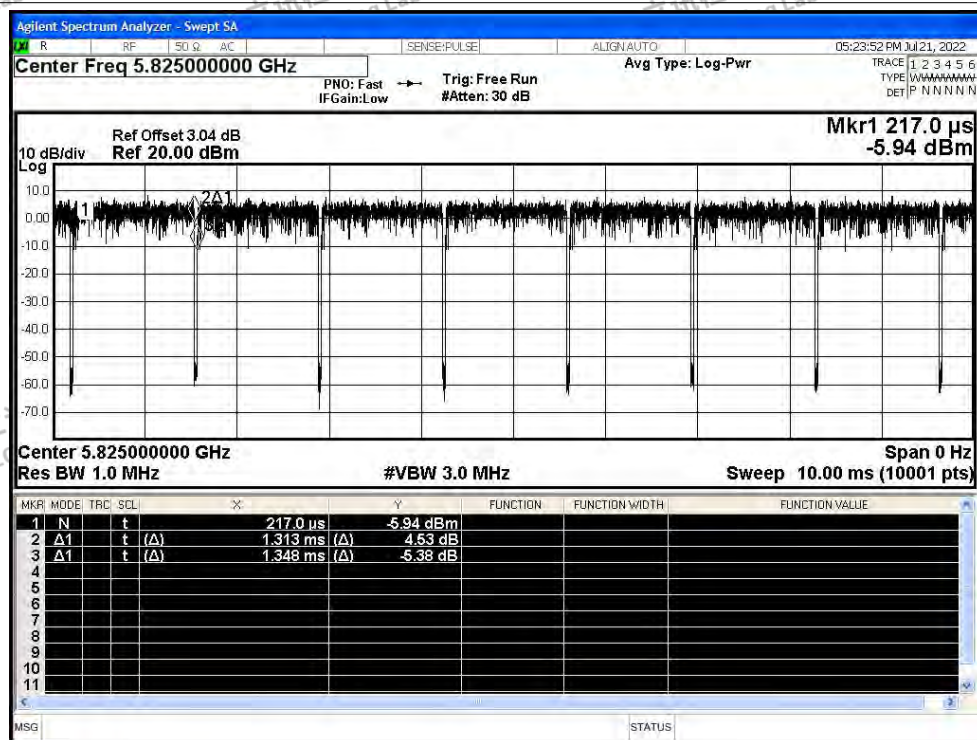


Duty Cycle NVNT ac20 5785MHz Ant1

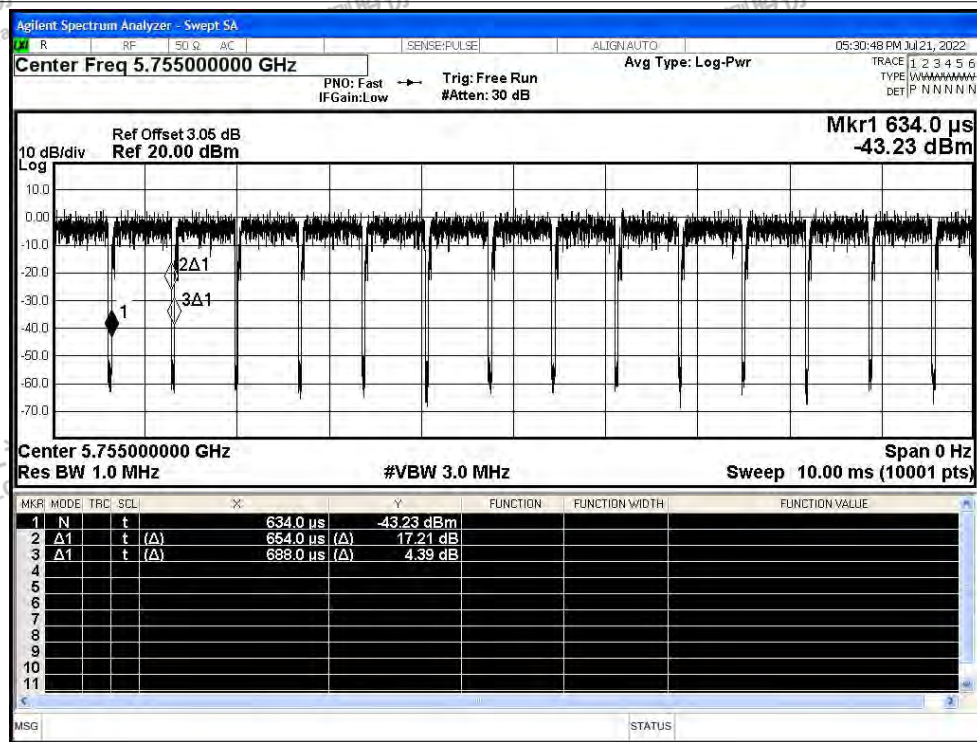




Duty Cycle NVNT ac20 5825MHz Ant1

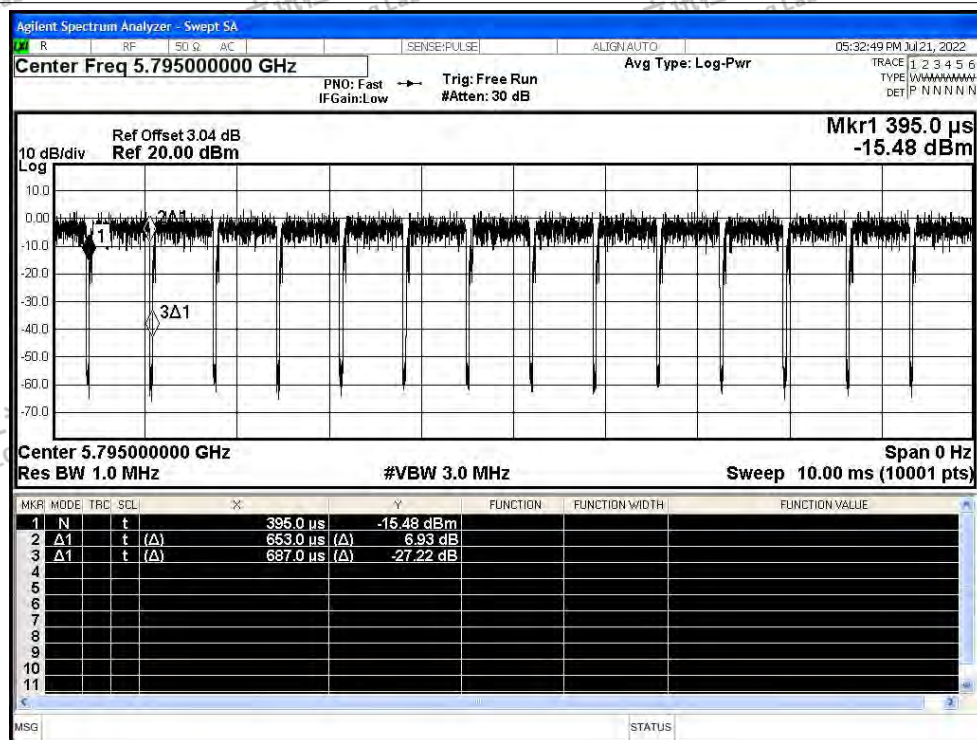


Duty Cycle NVNT ac40 5755MHz Ant1

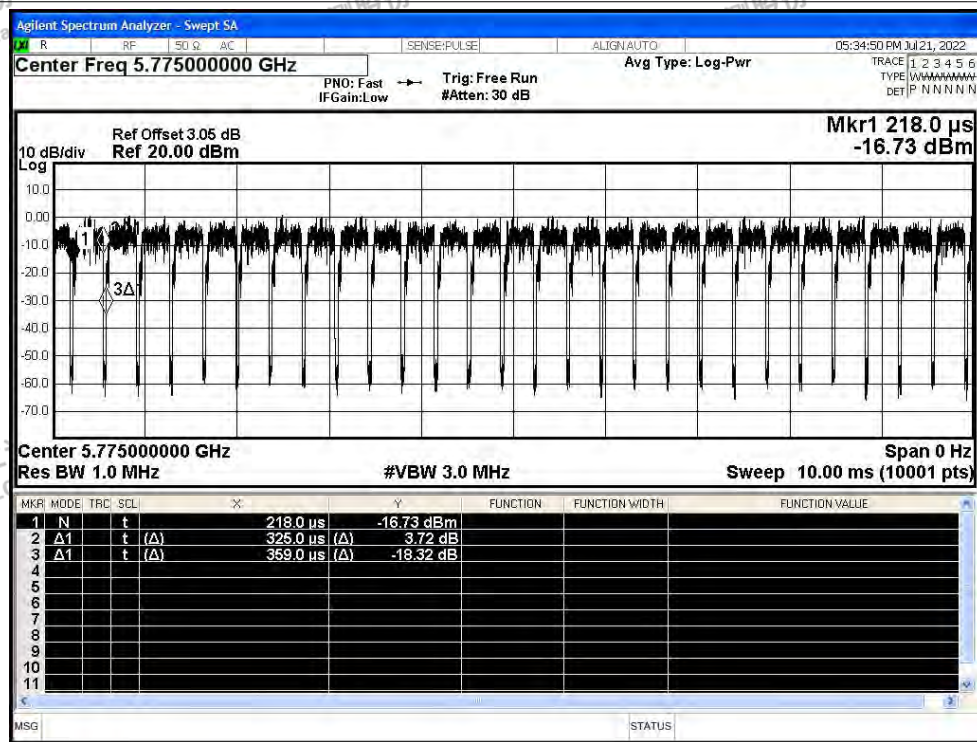




Duty Cycle NVNT ac40 5795MHz Ant1

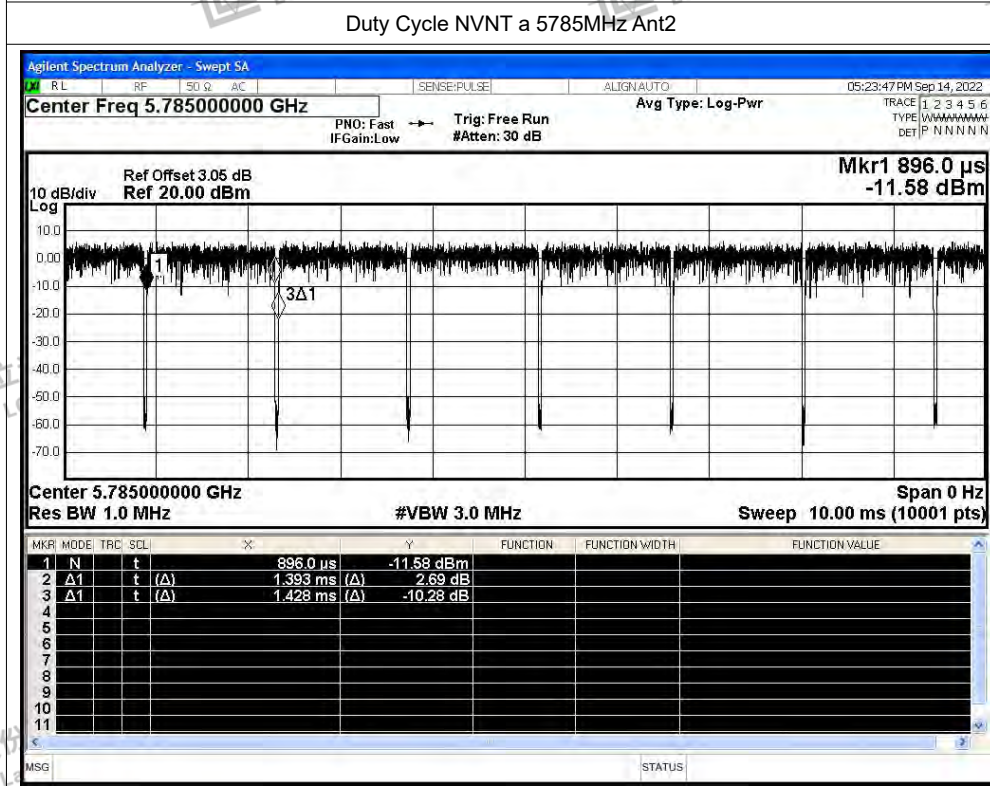
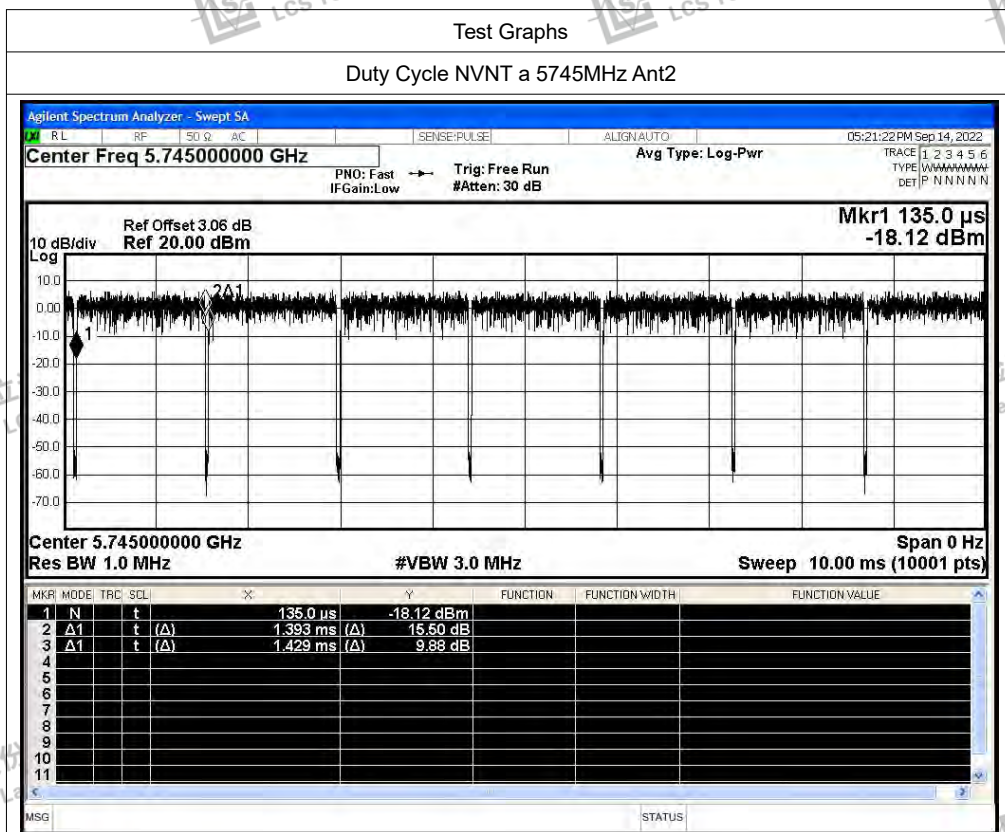


Duty Cycle NVNT ac80 5775MHz Ant1



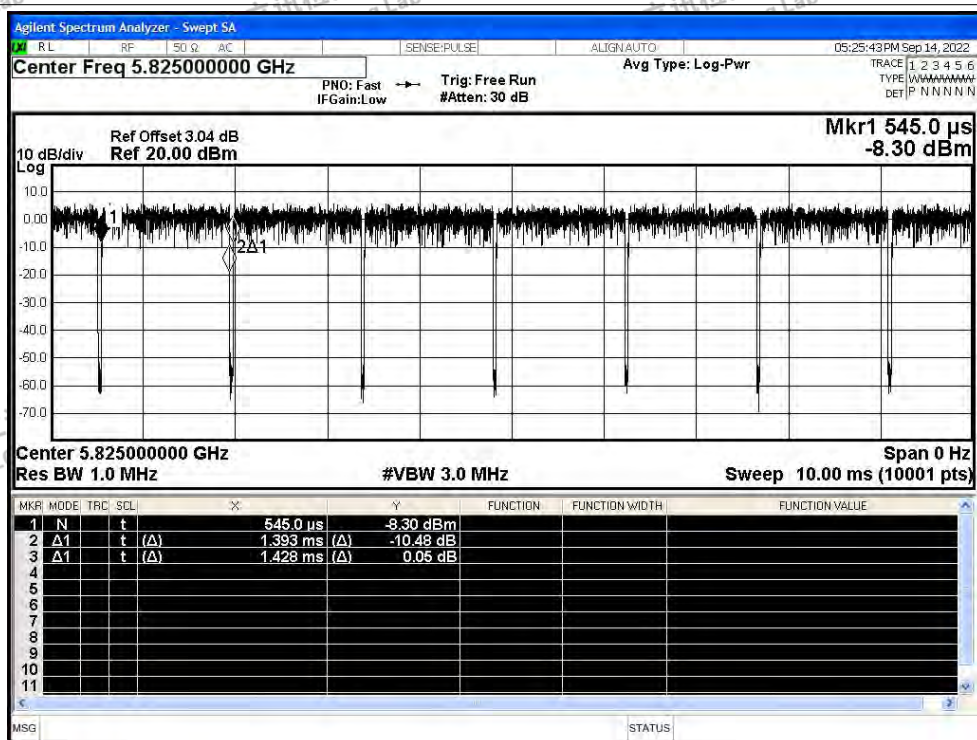


ANT2:

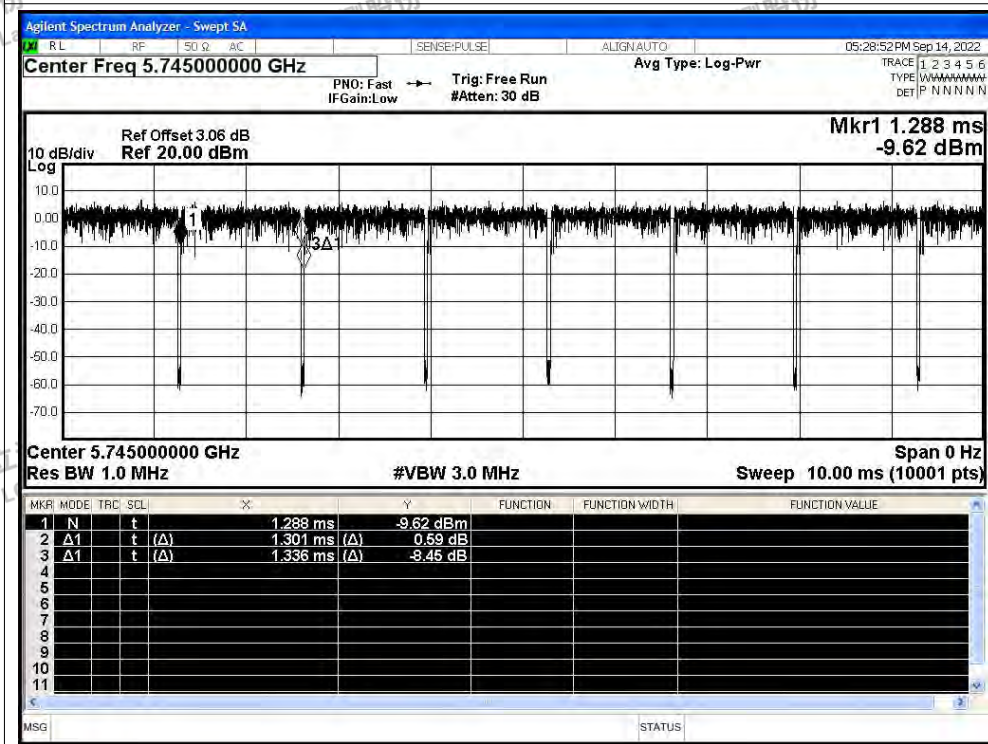




Duty Cycle NVNT a 5825MHz Ant2

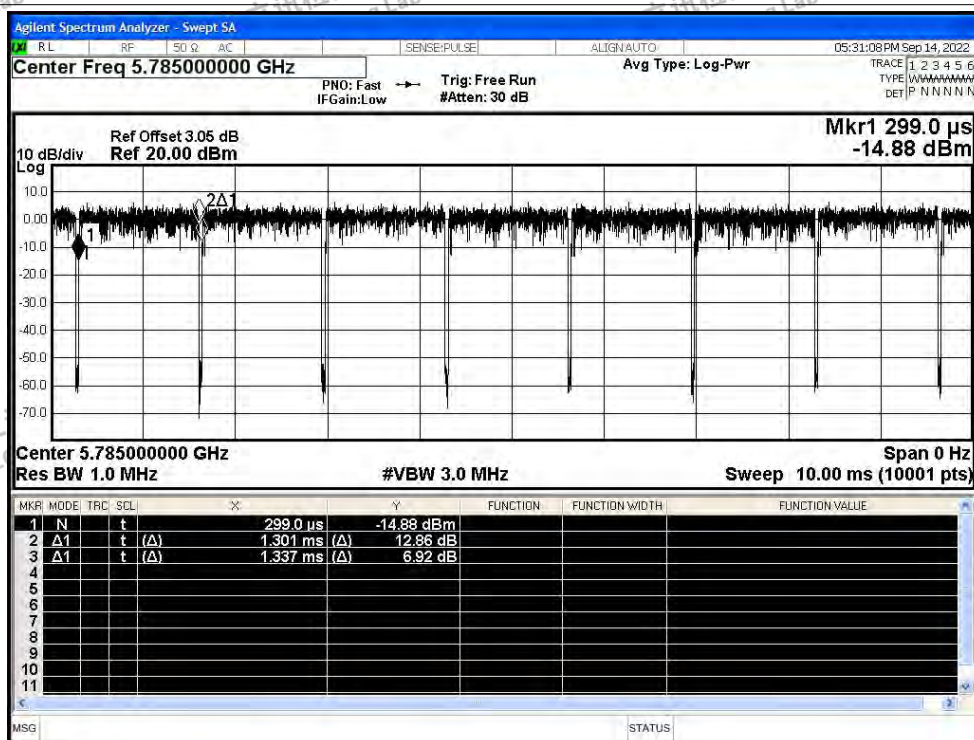


Duty Cycle NVNT n20 5745MHz Ant2

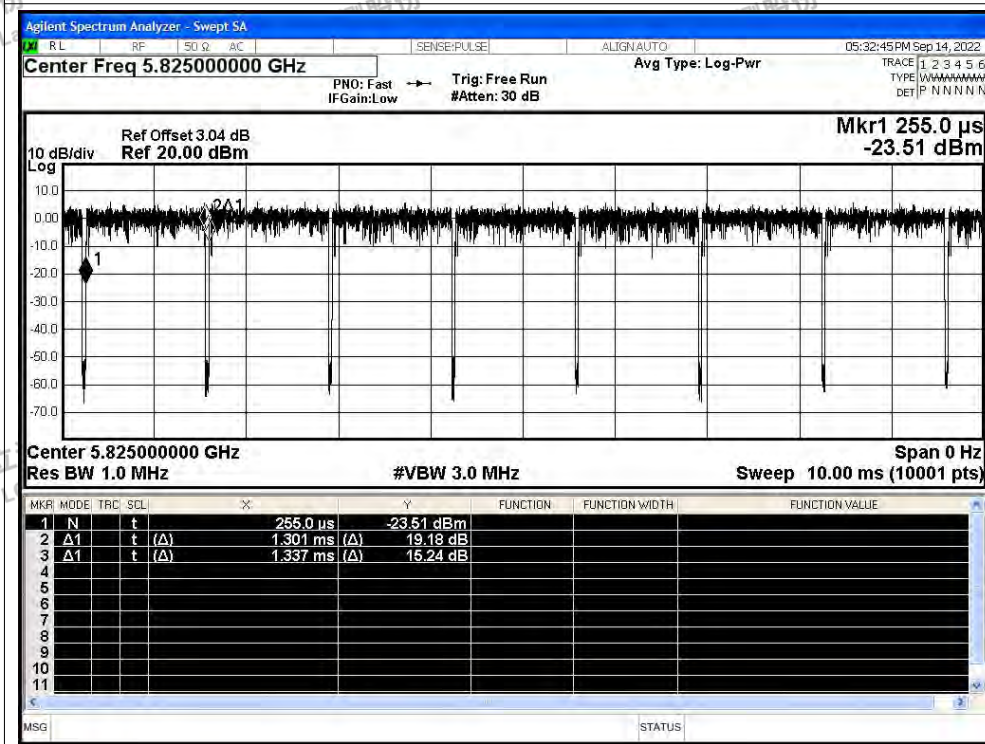




Duty Cycle NVNT n20 5785MHz Ant2

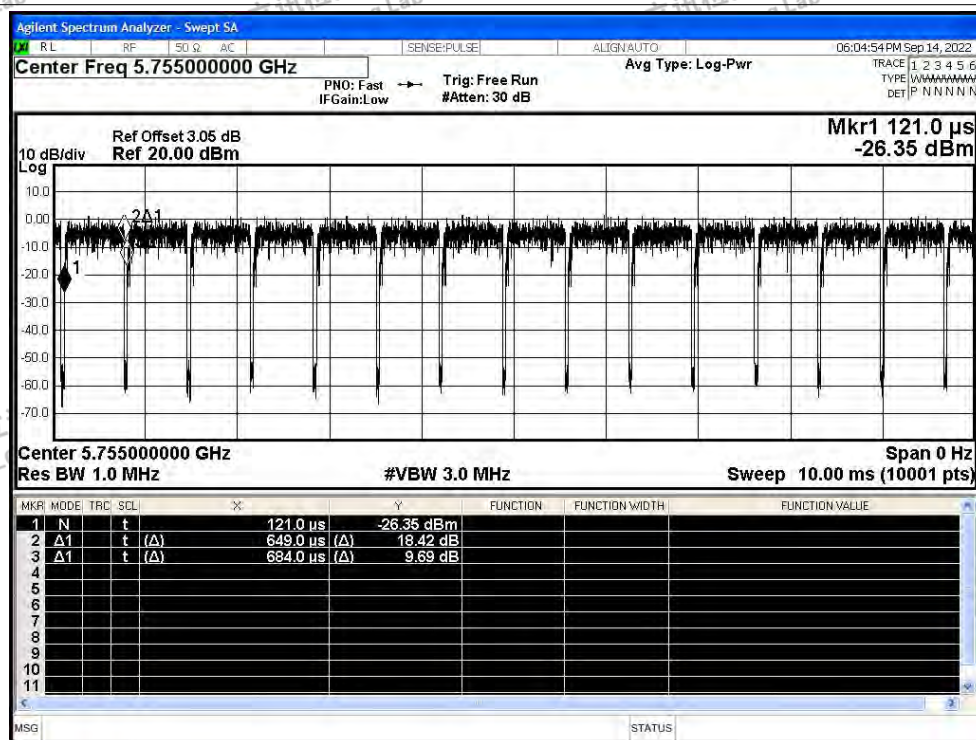


Duty Cycle NVNT n20 5825MHz Ant2

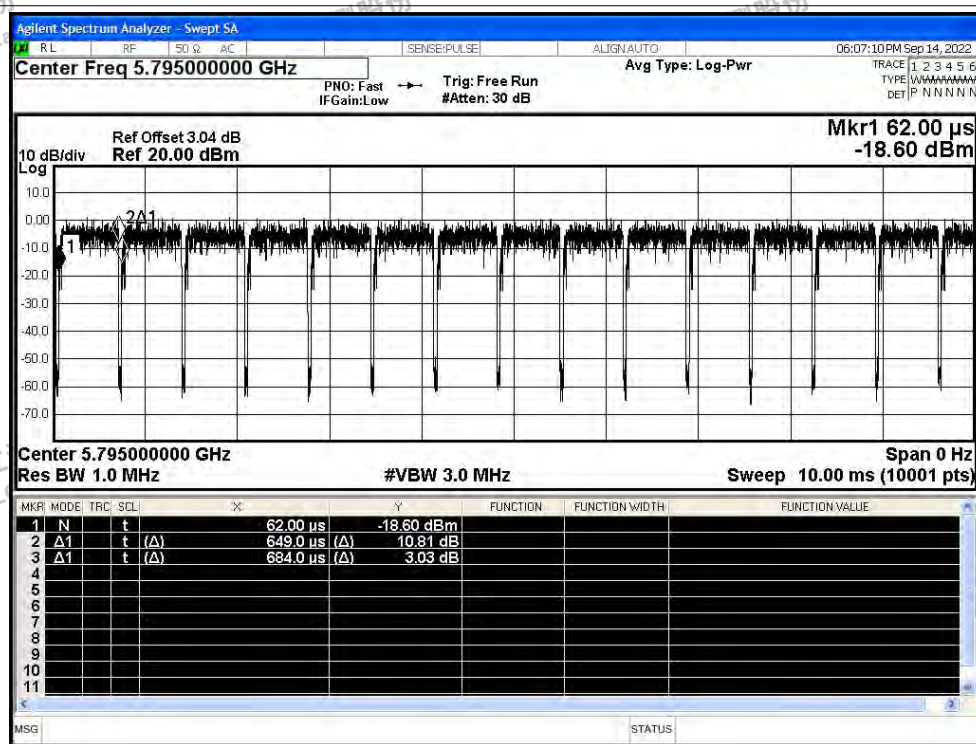




Duty Cycle NVNT n40 5755MHz Ant2

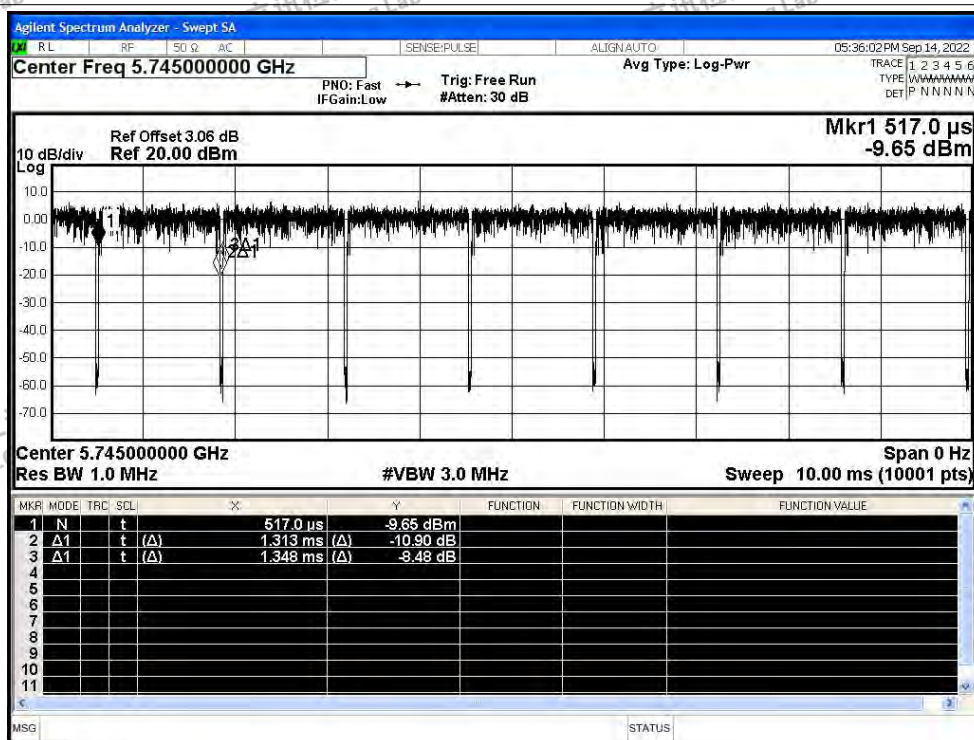


Duty Cycle NVNT n40 5795MHz Ant2

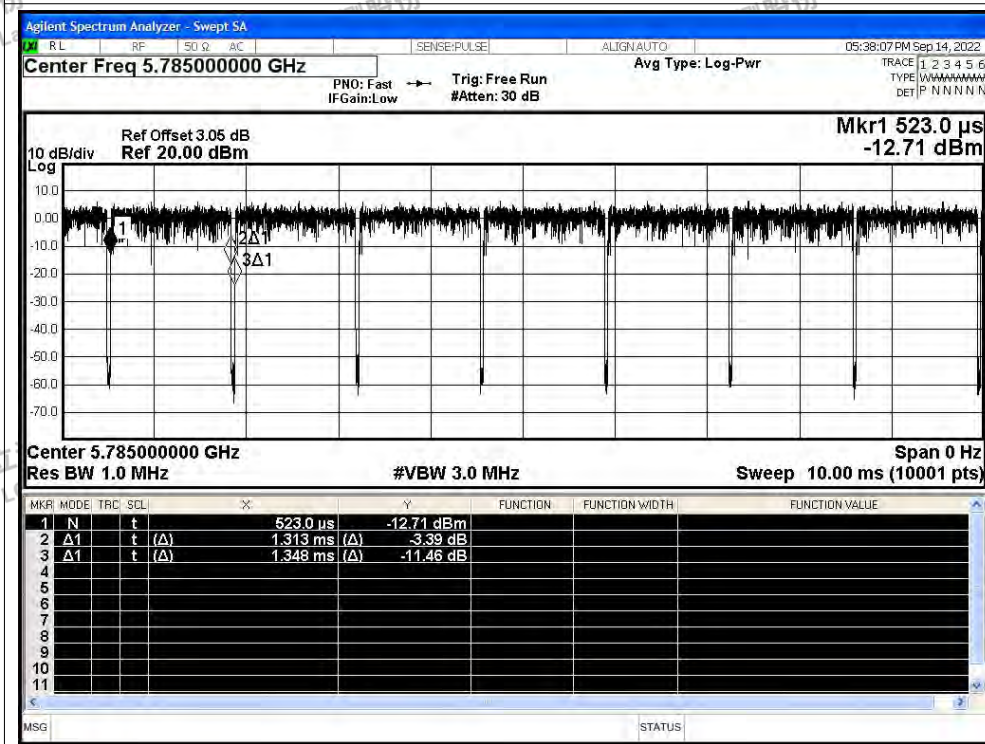




Duty Cycle NVNT ac20 5745MHz Ant2

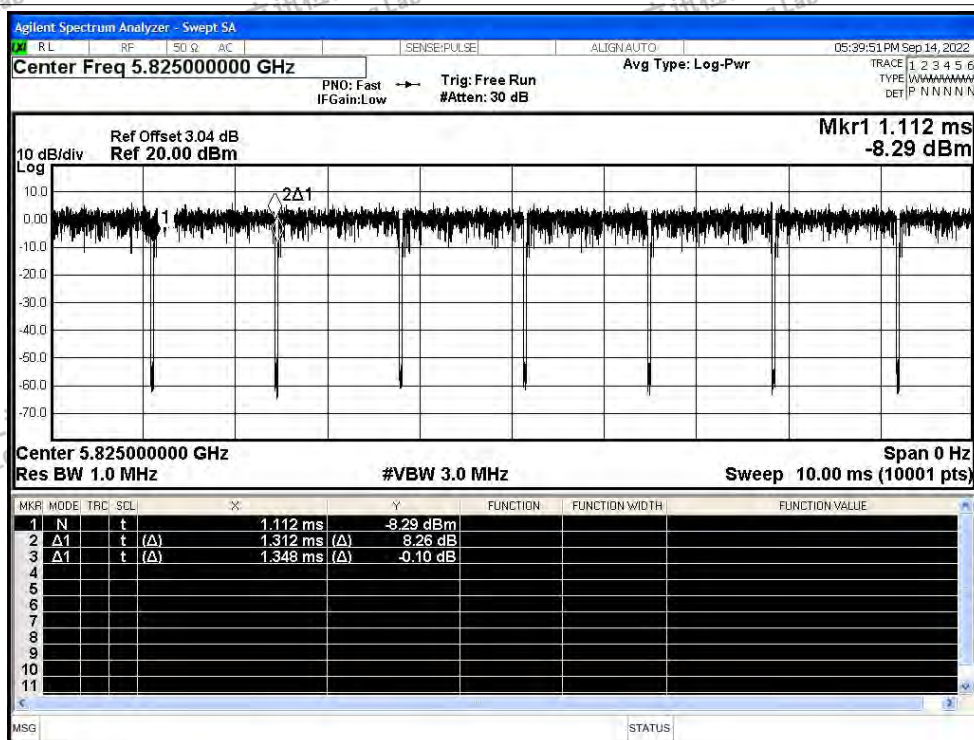


Duty Cycle NVNT ac20 5785MHz Ant2

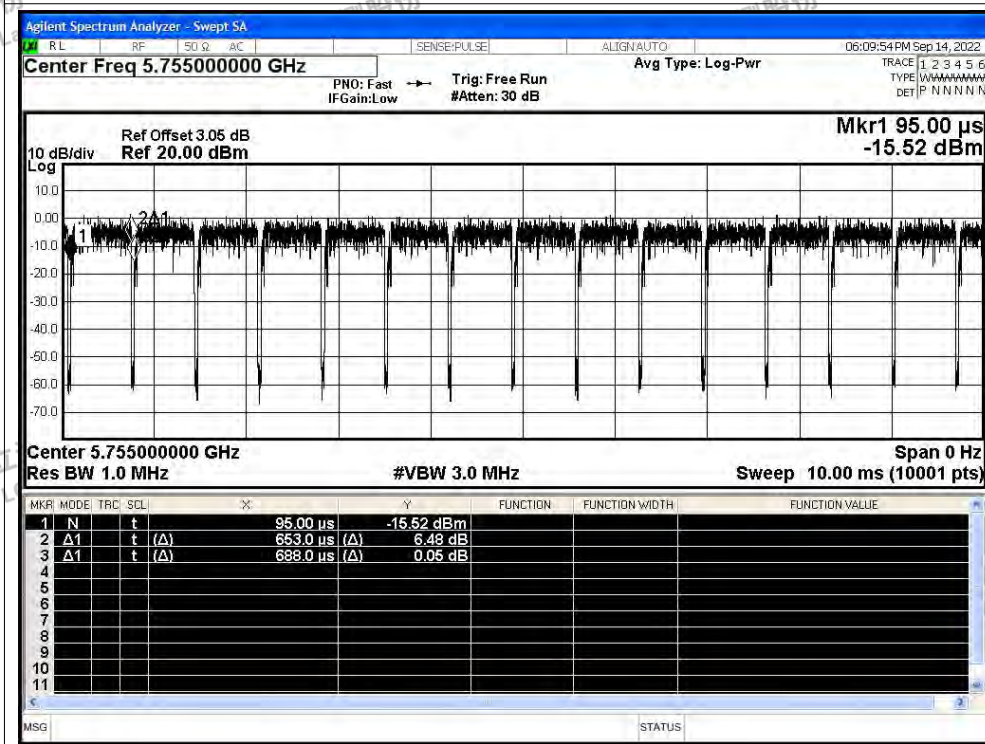




Duty Cycle NVNT ac20 5825MHz Ant2

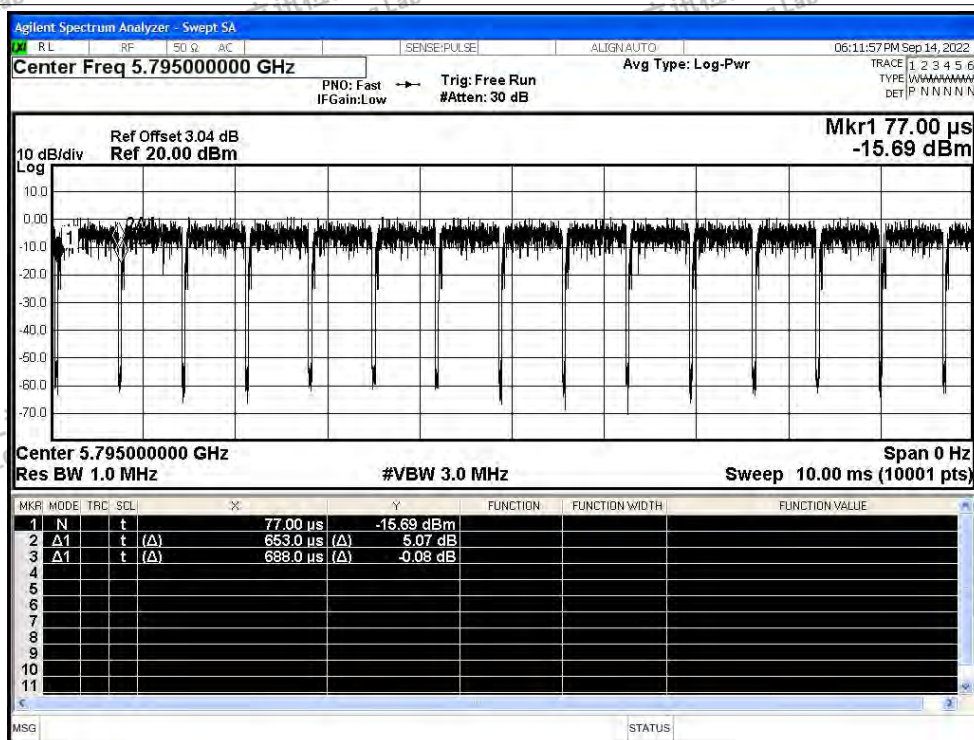


Duty Cycle NVNT ac40 5755MHz Ant2





Duty Cycle NVNT ac40 5795MHz Ant2



Duty Cycle NVNT ac80 5775MHz Ant2

