



Appendix D

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Projector

Test Model: C300

Environmental Conditions

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



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D.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.35	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.33	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.33	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.269	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.42	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.261	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	17.264	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	17.319	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	17.281	≥ 0.5	Pass



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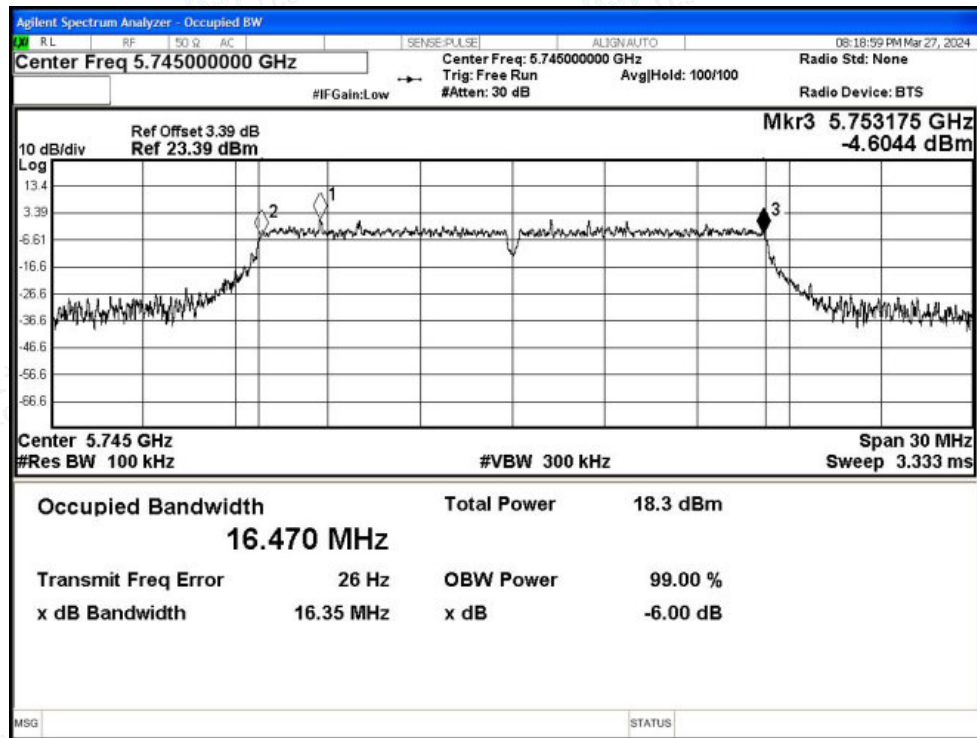
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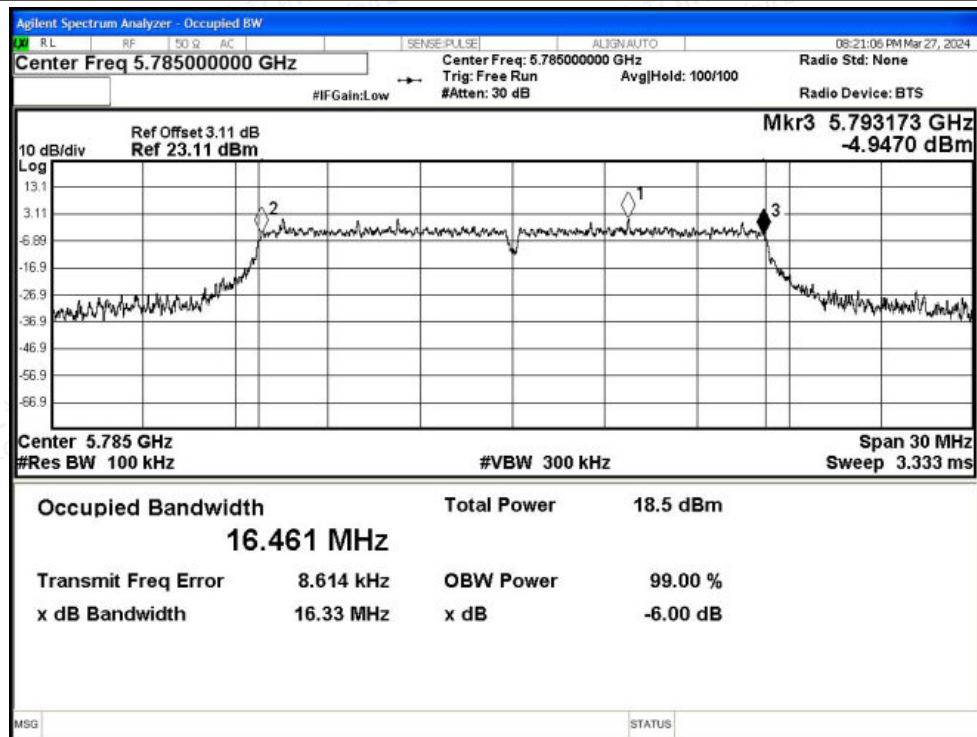


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



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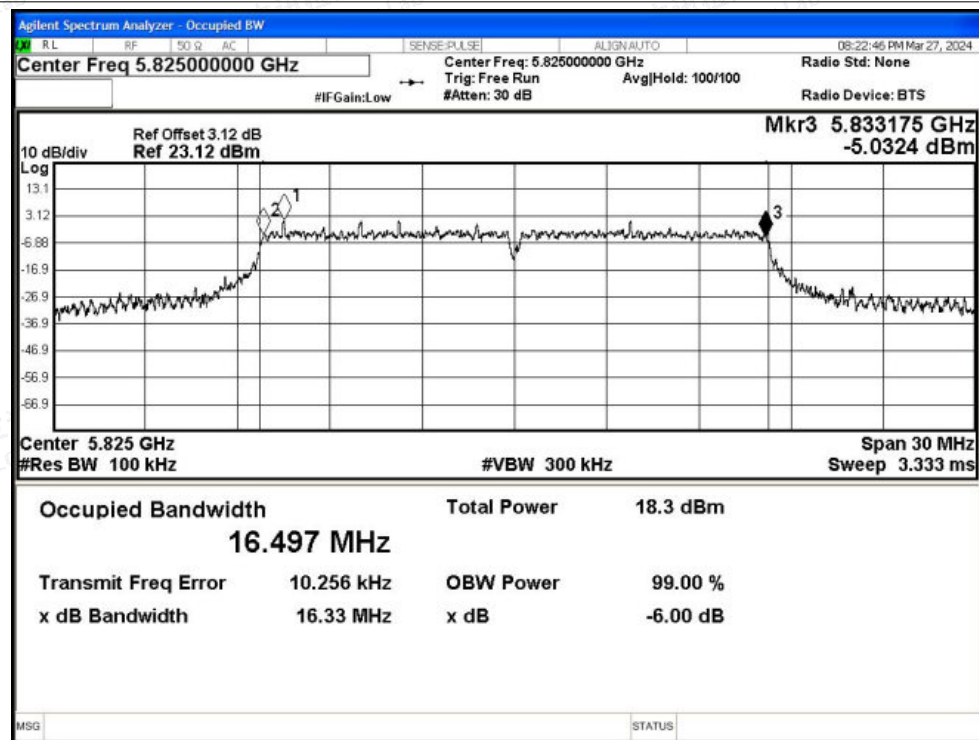
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-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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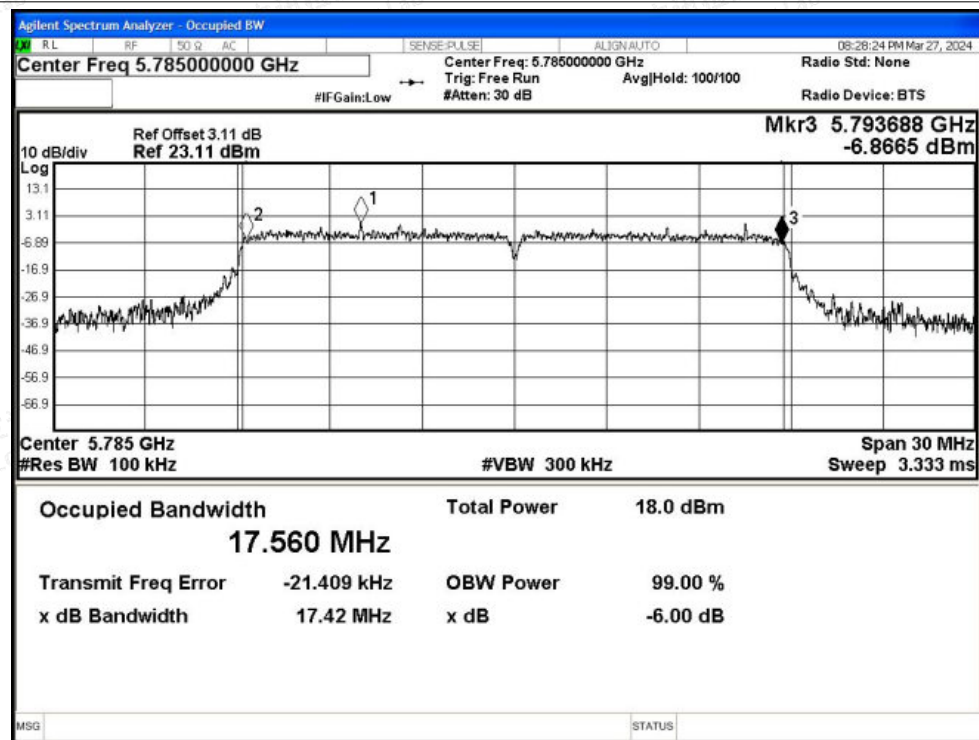
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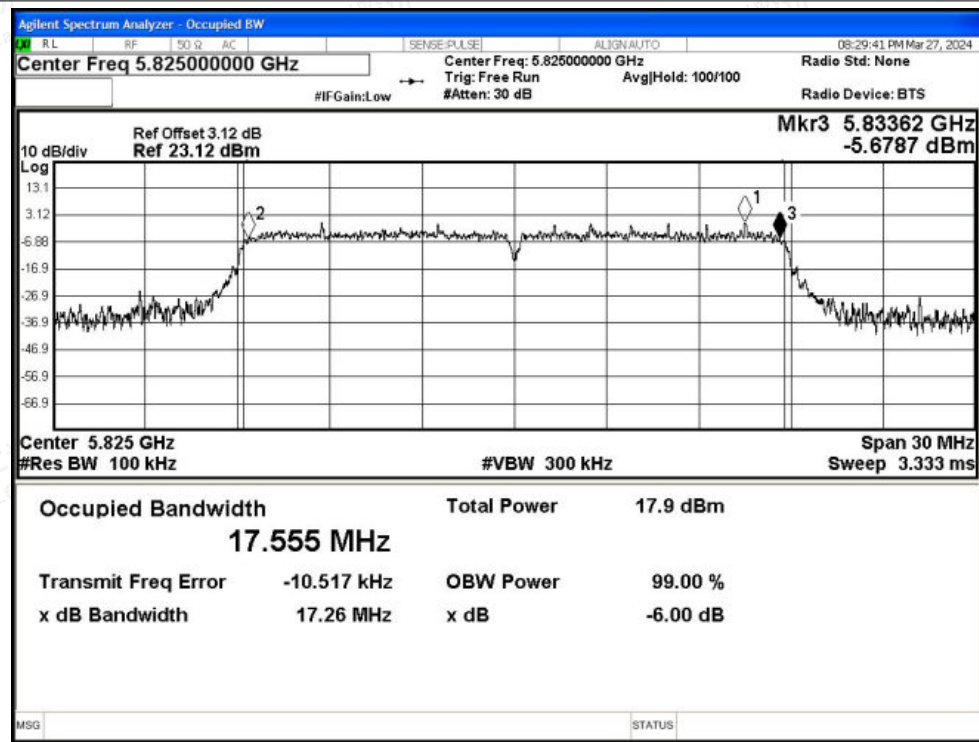
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-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



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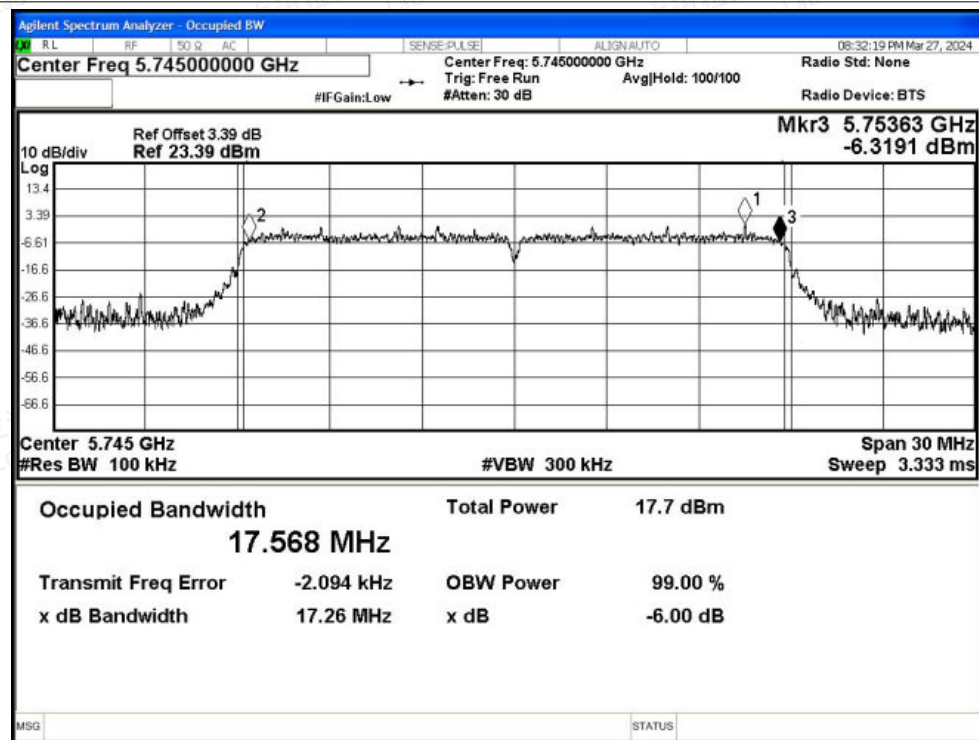
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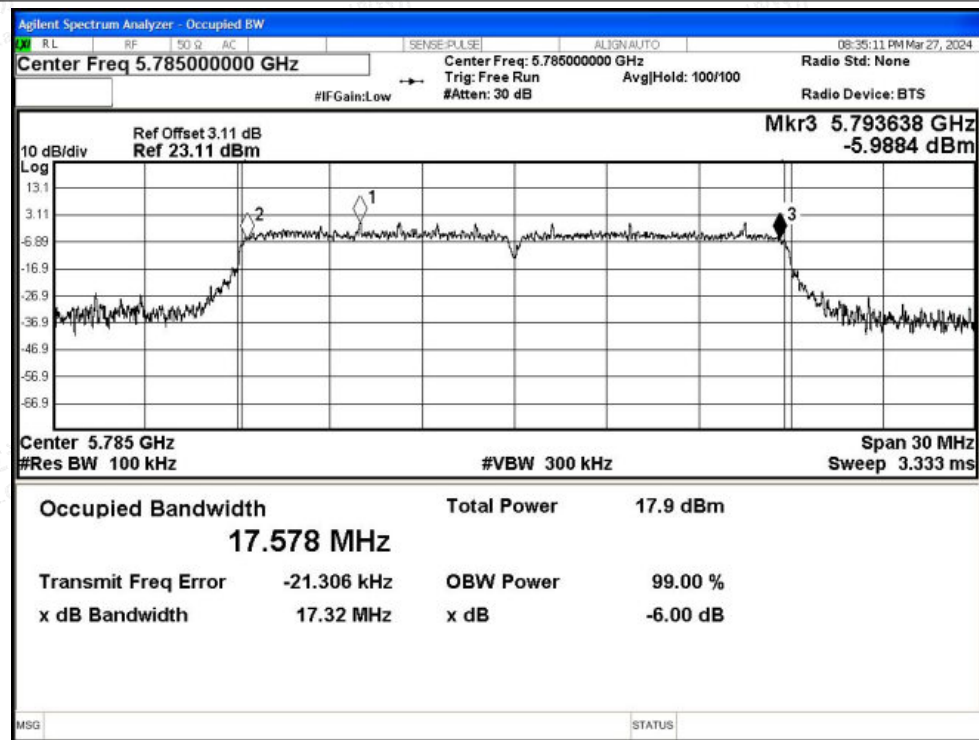
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-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1

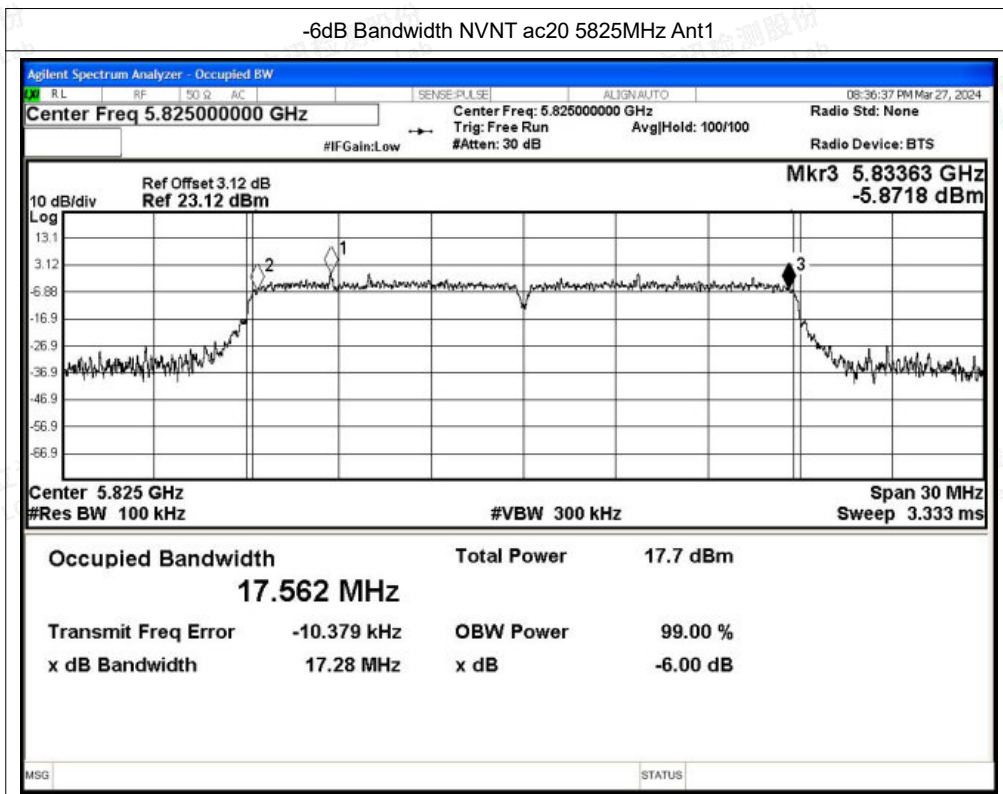


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.54	0.5	13.04	30	Pass
NVNT	a	5785	Ant1	12.33	0.48	12.81	30	Pass
NVNT	a	5825	Ant1	12.17	0.48	12.65	30	Pass
NVNT	n20	5745	Ant1	11.09	0.63	11.72	30	Pass
NVNT	n20	5785	Ant1	11.35	0.56	11.91	30	Pass
NVNT	n20	5825	Ant1	11.27	0.66	11.93	30	Pass
NVNT	ac20	5745	Ant1	11.06	0.55	11.61	30	Pass
NVNT	ac20	5785	Ant1	11.52	0.55	12.07	30	Pass
NVNT	ac20	5825	Ant1	11.23	0.14	11.37	30	Pass





D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-1.18	0.5	-0.68	30	Pass
NVNT	a	5785	Ant1	-1.09	0.48	-0.61	30	Pass
NVNT	a	5825	Ant1	-1.45	0.48	-0.97	30	Pass
NVNT	n20	5745	Ant1	-2.75	0.63	-2.12	30	Pass
NVNT	n20	5785	Ant1	-2.54	0.56	-1.98	30	Pass
NVNT	n20	5825	Ant1	-2.47	0.66	-1.81	30	Pass
NVNT	ac20	5745	Ant1	-2.69	0.55	-2.14	30	Pass
NVNT	ac20	5785	Ant1	-2.43	0.55	-1.88	30	Pass
NVNT	ac20	5825	Ant1	-1.98	0.14	-1.84	30	Pass



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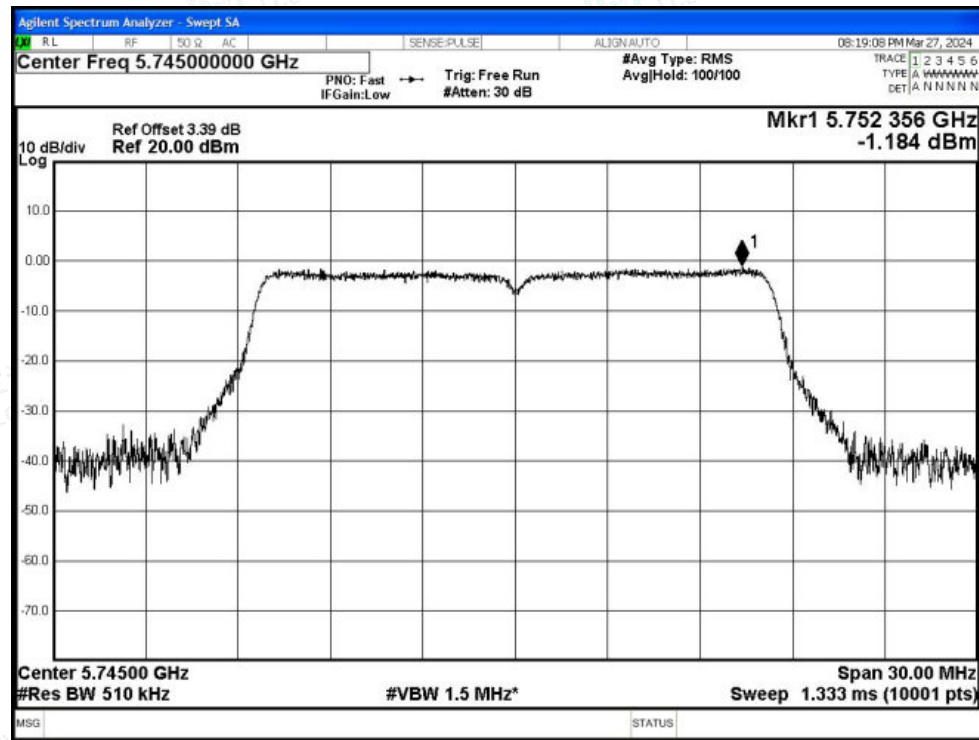
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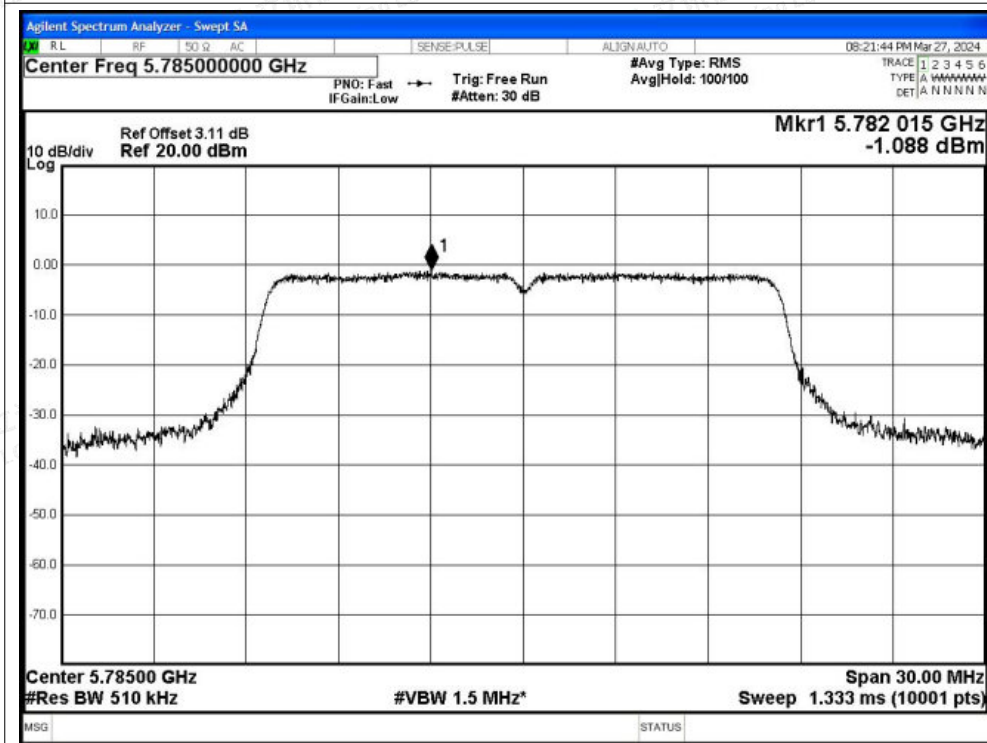


Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



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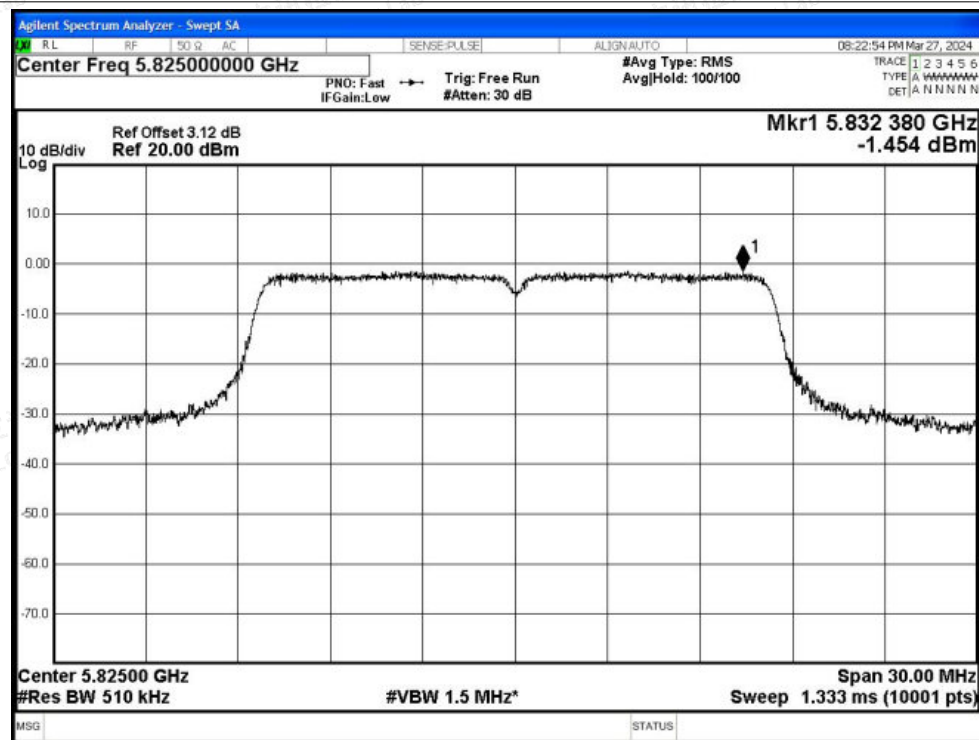
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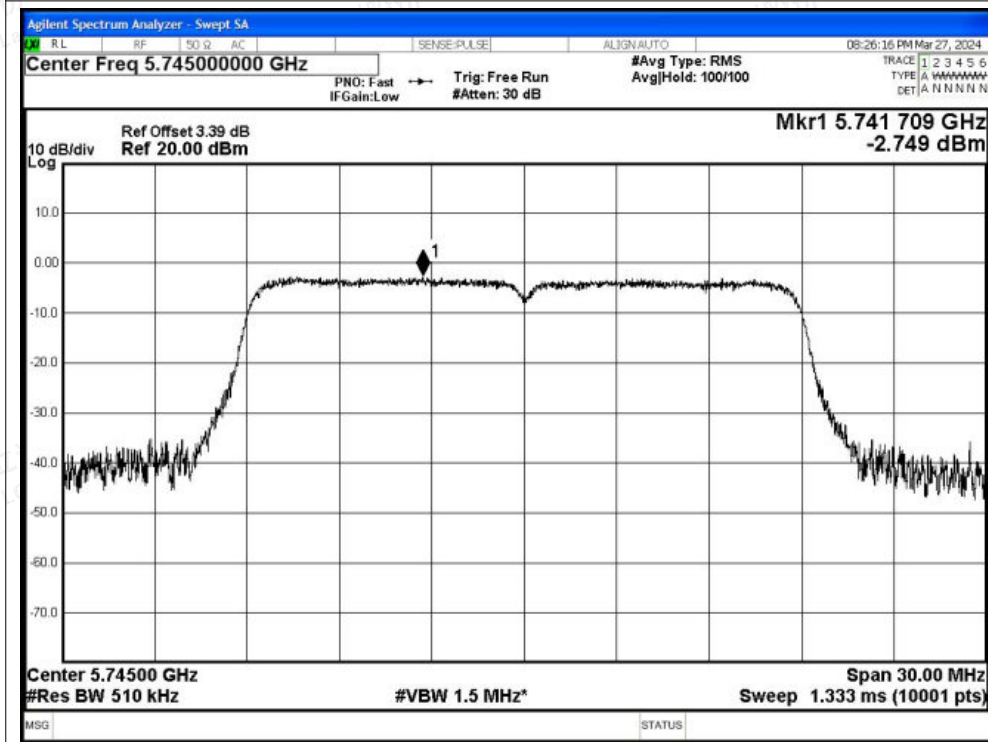
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PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



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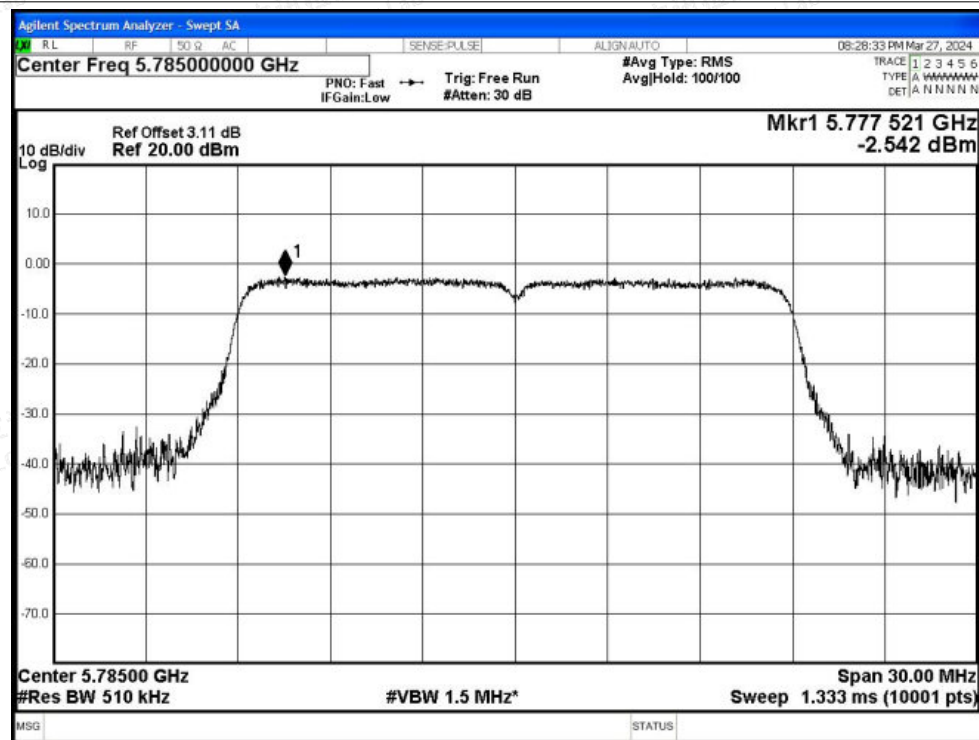
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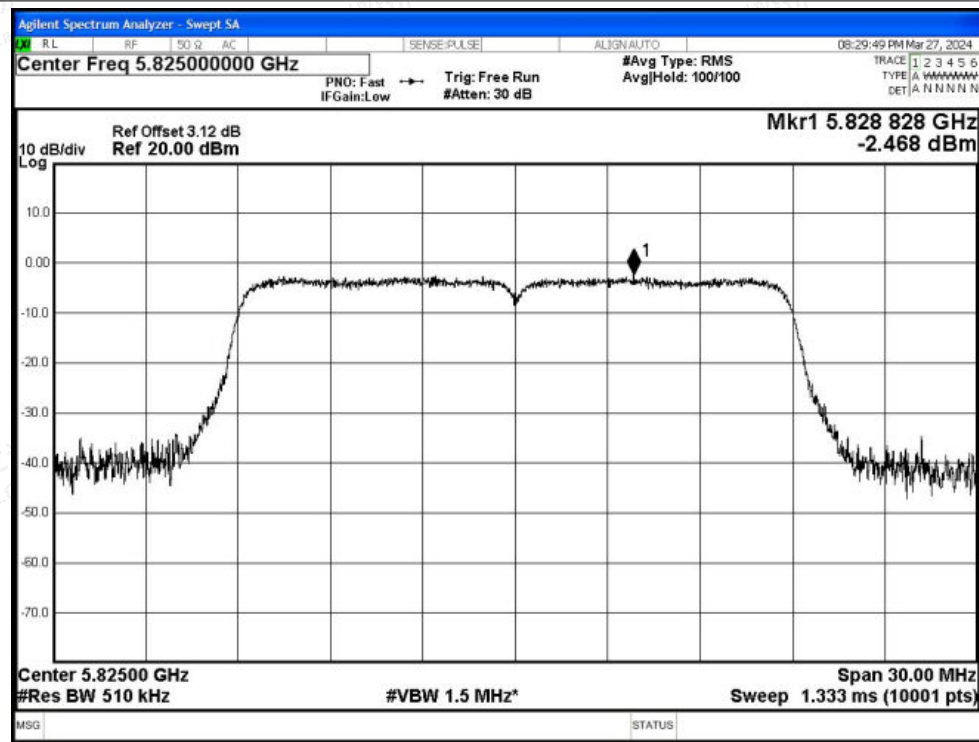
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PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



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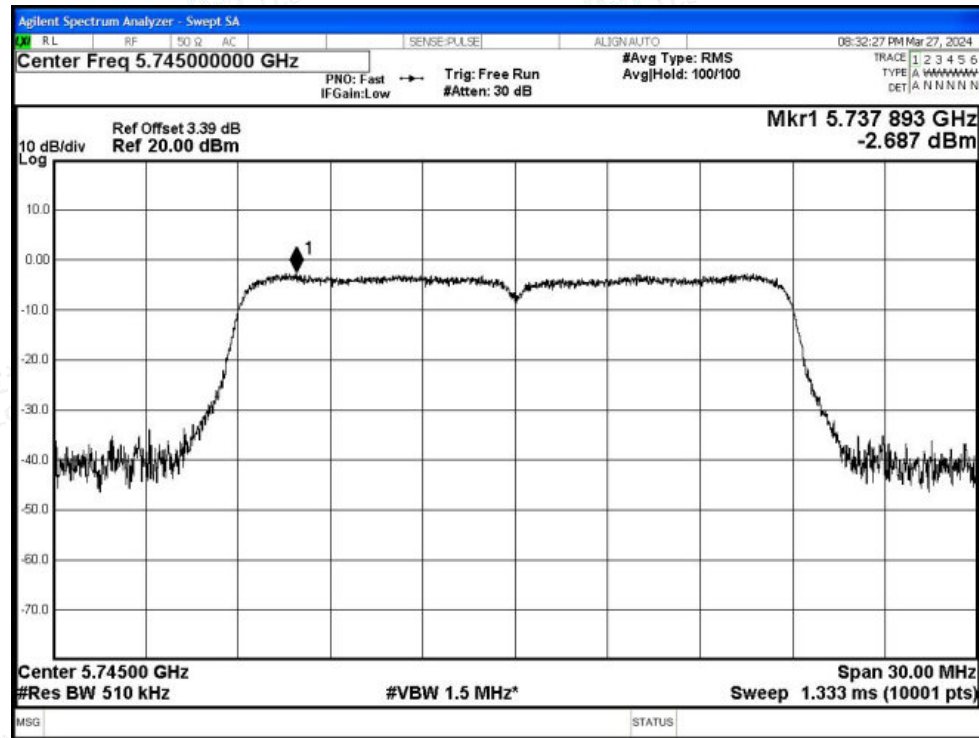
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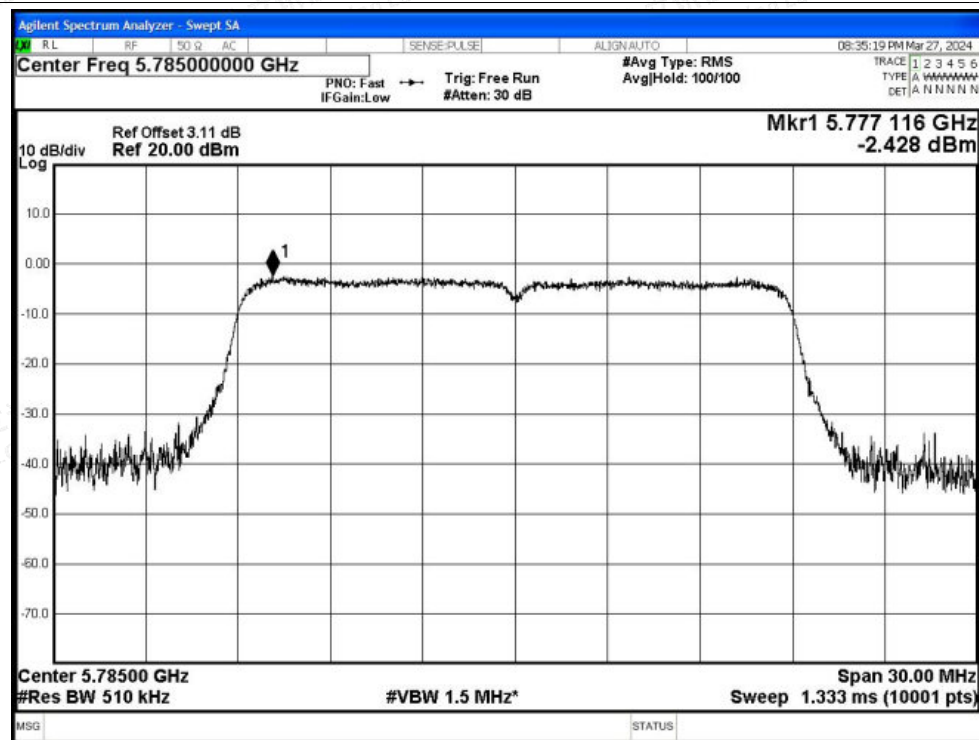
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PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1

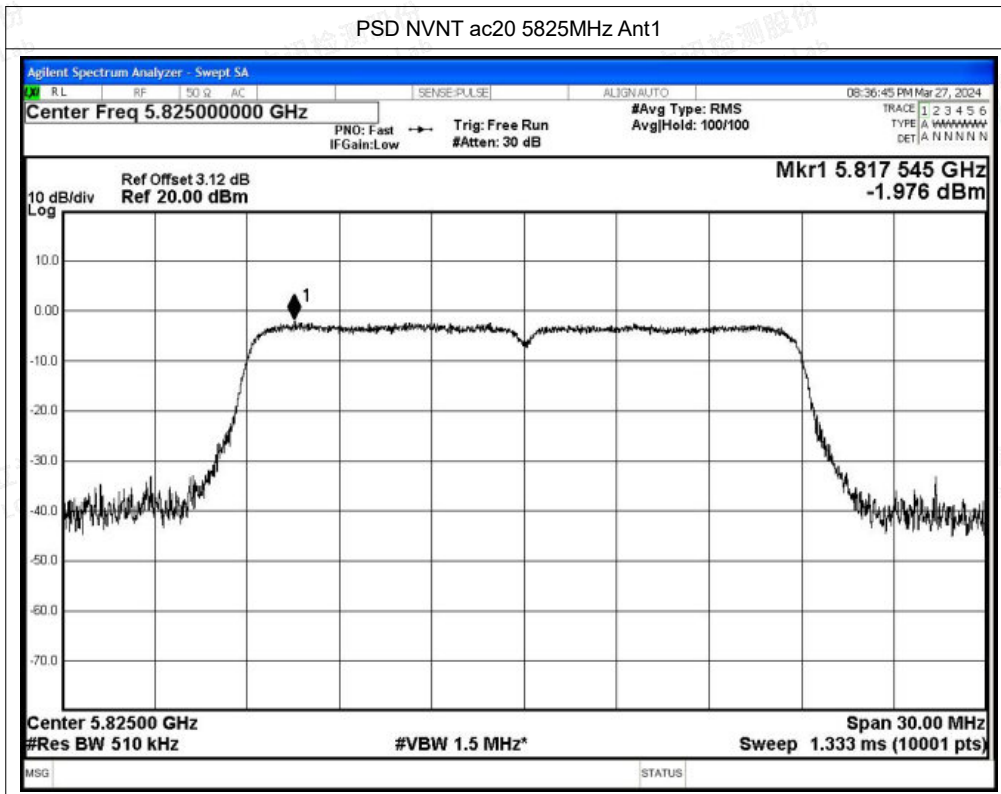


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D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-48.64	2.31	-46.33	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-57.59	2.31	-55.28	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-47.59	2.31	-45.28	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-54.48	2.31	-52.17	Average	10	Pass
NVNT	a	5745	Ant1	5720	-26.74	2.31	-24.43	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-46.15	2.31	-43.84	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-26.41	2.31	-24.1	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-45.28	2.31	-42.97	Average	27	Pass
NVNT	a	5825	Ant1	5850	-40.06	2.31	-37.75	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-49.06	2.31	-46.75	Average	27	Pass
NVNT	a	5825	Ant1	5855	-37.86	2.31	-35.55	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-52.38	2.31	-50.07	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-48.05	2.31	-45.74	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-57.19	2.31	-54.88	Average	10	Pass
NVNT	a	5825	Ant1	5925	-49.91	2.31	-47.6	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-57.33	2.31	-55.02	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-48.82	2.31	-46.51	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.36	2.31	-55.05	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-47.14	2.31	-44.83	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-55.64	2.31	-53.33	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-31.61	2.31	-29.3	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-45.3	2.31	-42.99	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-26.06	2.31	-23.75	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-41.6	2.31	-39.29	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-32.65	2.31	-30.34	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-49.04	2.31	-46.73	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-37.24	2.31	-34.93	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-50.83	2.31	-48.52	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48.36	2.31	-46.05	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-56.17	2.31	-53.86	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.08	2.31	-46.77	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-57.68	2.31	-55.37	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-49.96	2.31	-47.65	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-57.72	2.31	-55.41	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-48.13	2.31	-45.82	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-55.58	2.31	-53.27	Average	10	Pass



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NVNT	ac20	5745	Ant1	5720	-28.59	2.31	-26.28	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-45.75	2.31	-43.44	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-22.11	2.31	-19.8	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-41.82	2.31	-39.51	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-29.26	2.31	-26.95	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-47.19	2.31	-44.88	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-34.5	2.31	-32.19	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-51.03	2.31	-48.72	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-49	2.31	-46.69	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-56.3	2.31	-53.99	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-49.55	2.31	-47.24	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-57.35	2.31	-55.04	Average	-27	Pass



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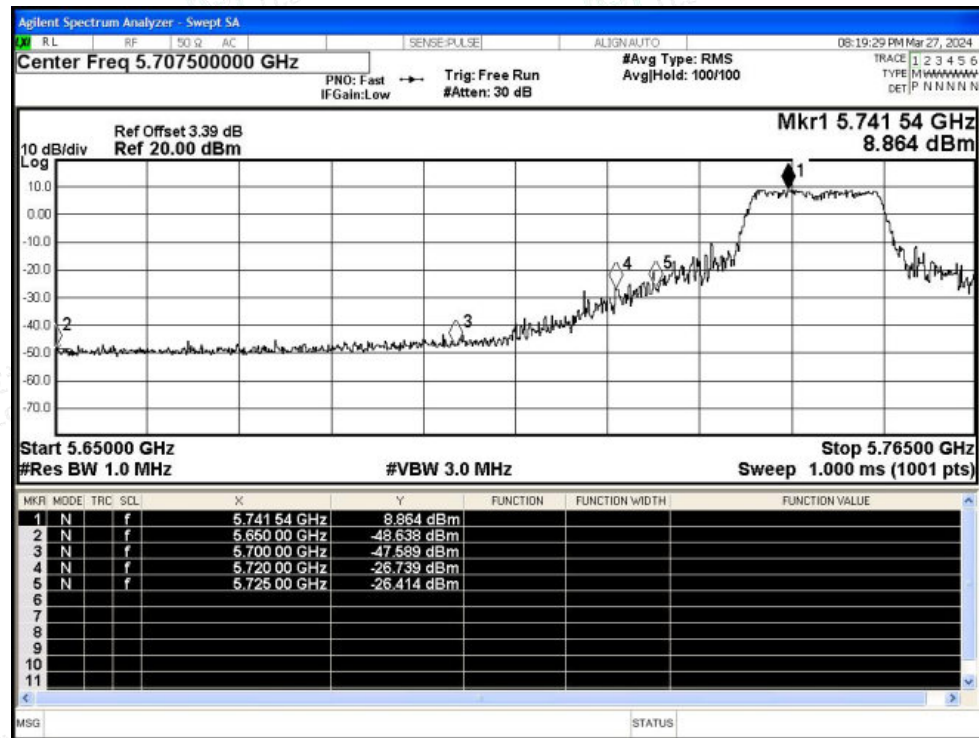
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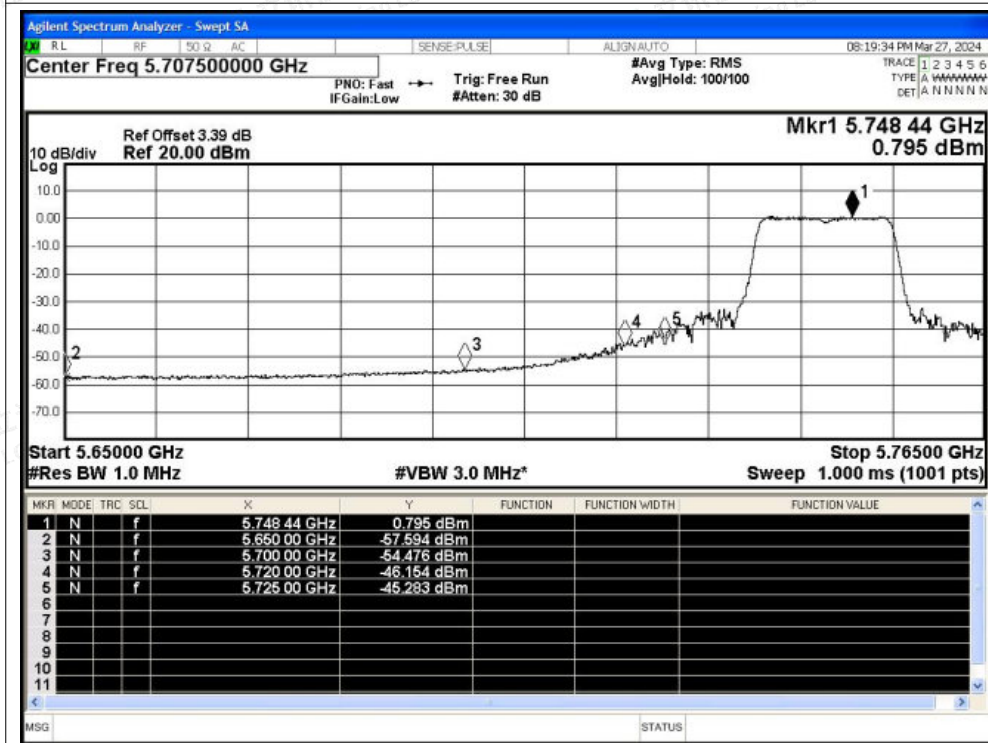


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak



Restrict Band NVNT a 5745MHz Ant1 Average



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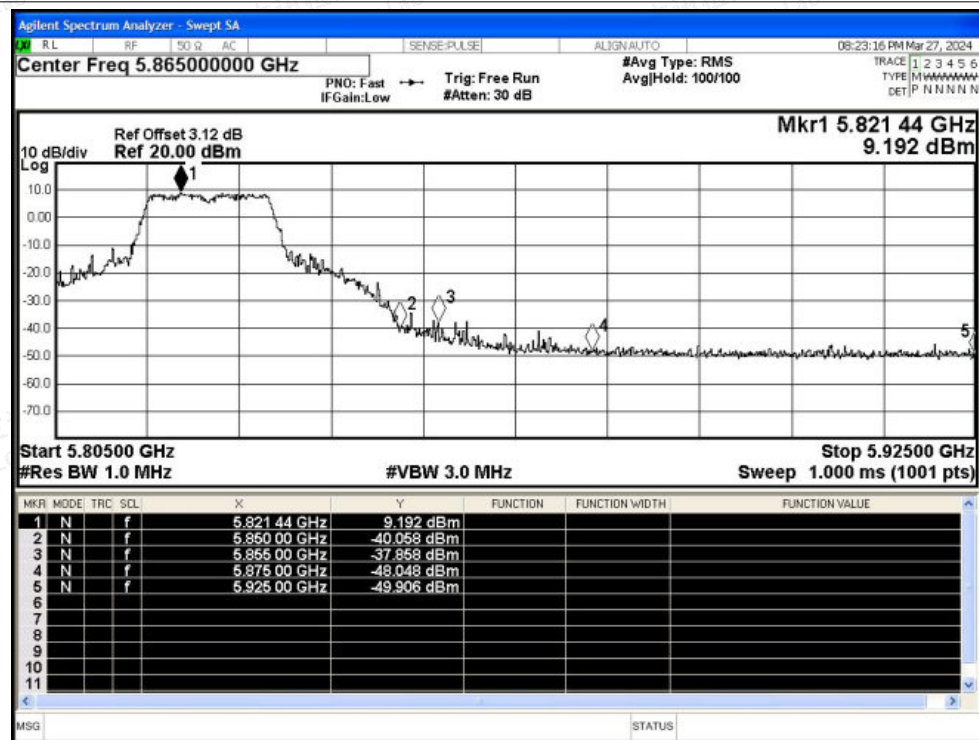
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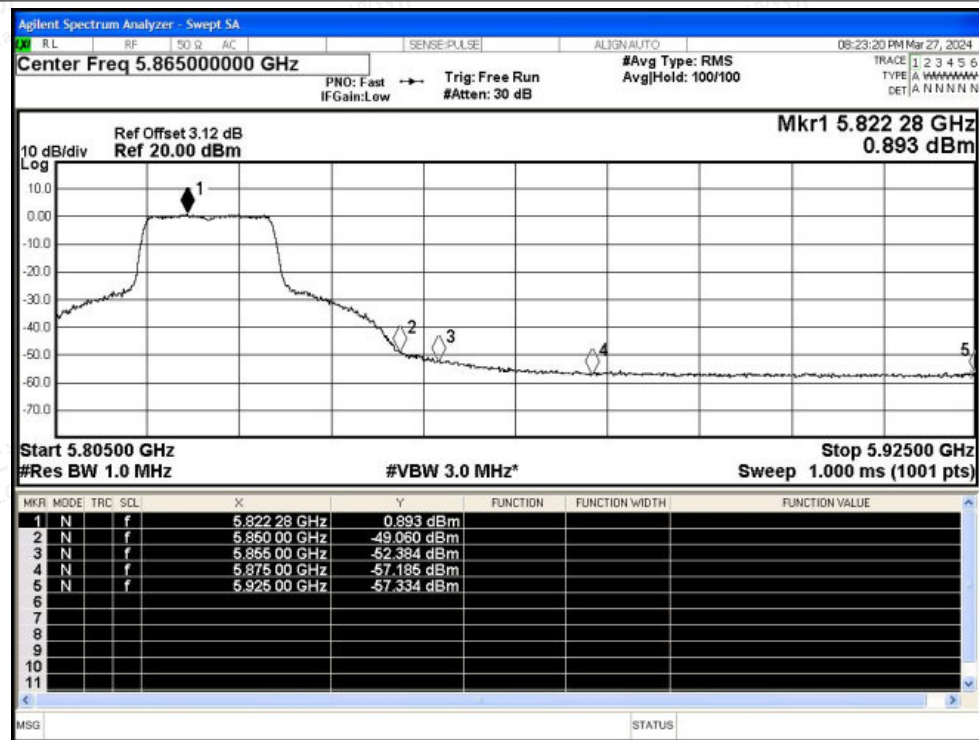
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Restrict Band NVNT a 5825MHz Ant1 Peak



Restrict Band NVNT a 5825MHz Ant1 Average



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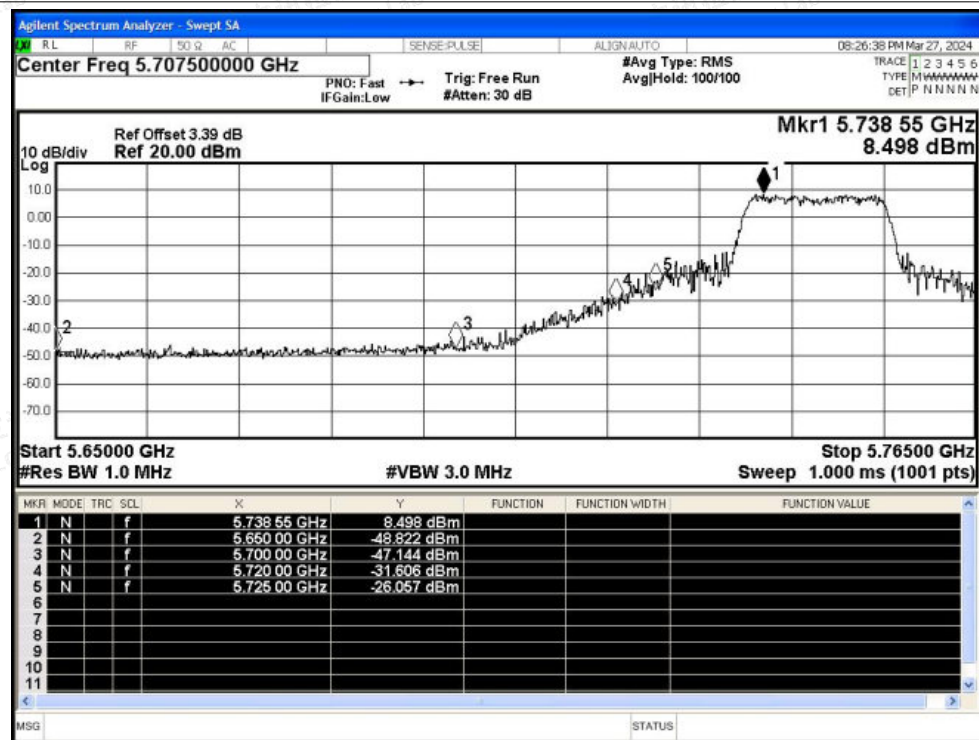
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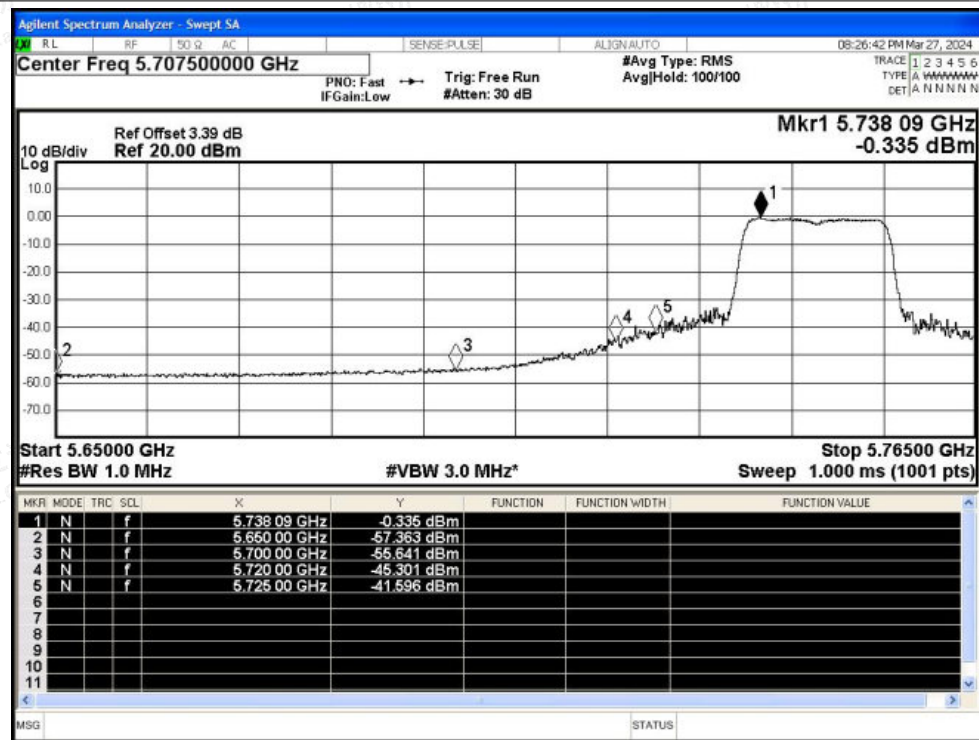
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Restrict Band NVNT n20 5745MHz Ant1 Peak



Restrict Band NVNT n20 5745MHz Ant1 Average



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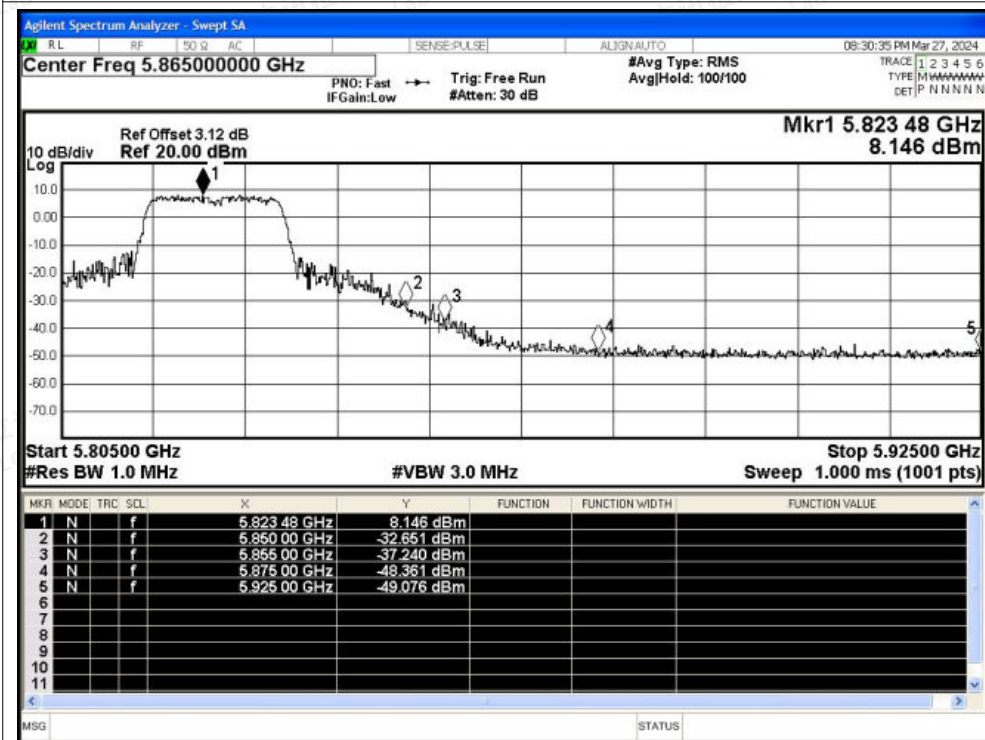
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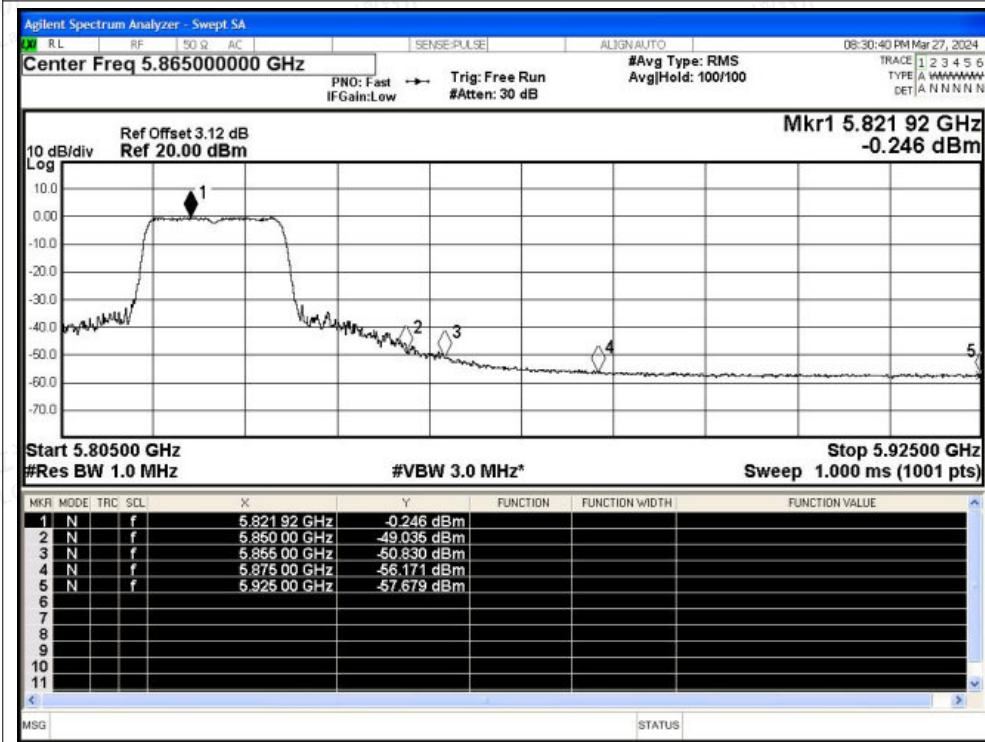
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Restrict Band NVNT n20 5825MHz Ant1 Peak



Restrict Band NVNT n20 5825MHz Ant1 Average



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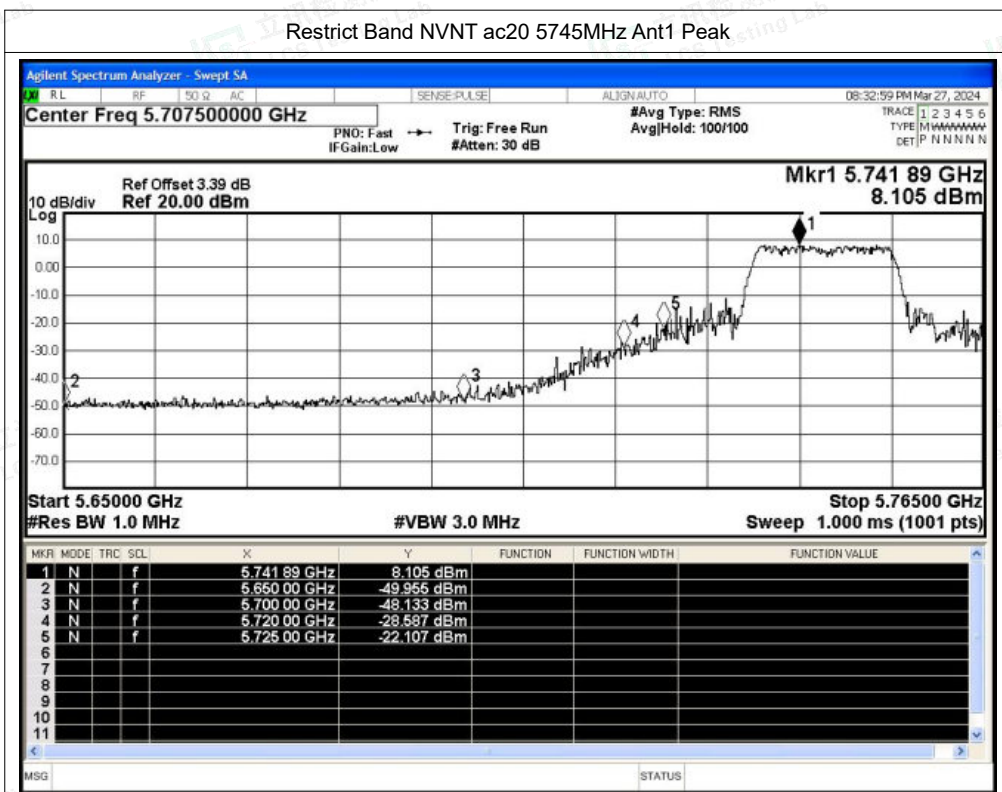
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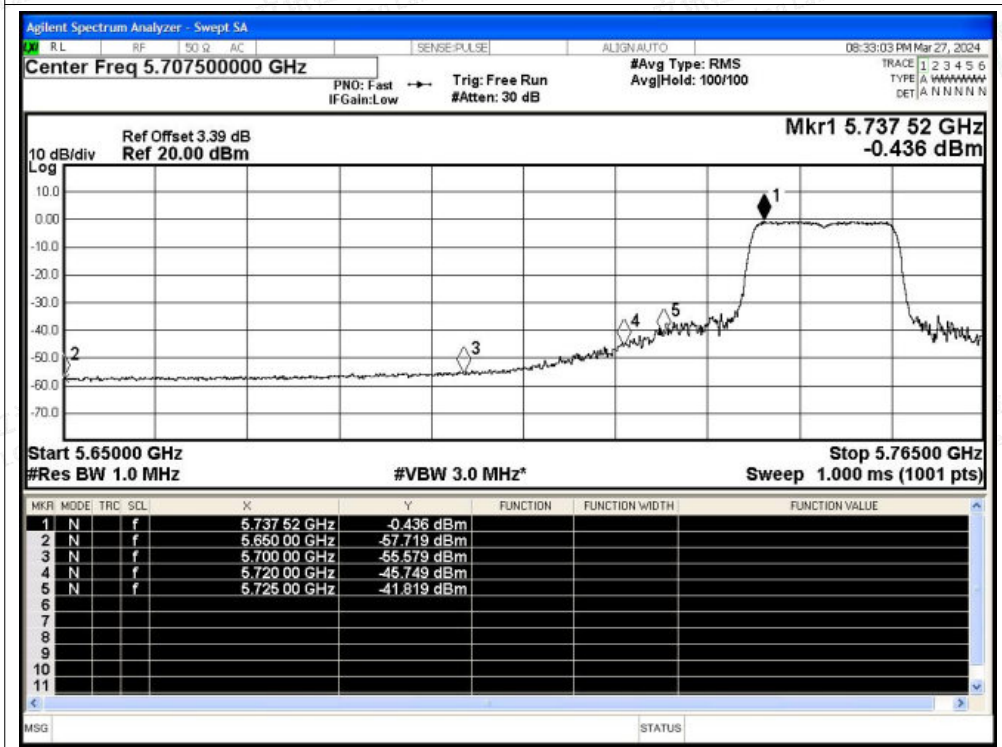
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Restrict Band NVNT ac20 5745MHz Ant1 Peak



Restrict Band NVNT ac20 5745MHz Ant1 Average



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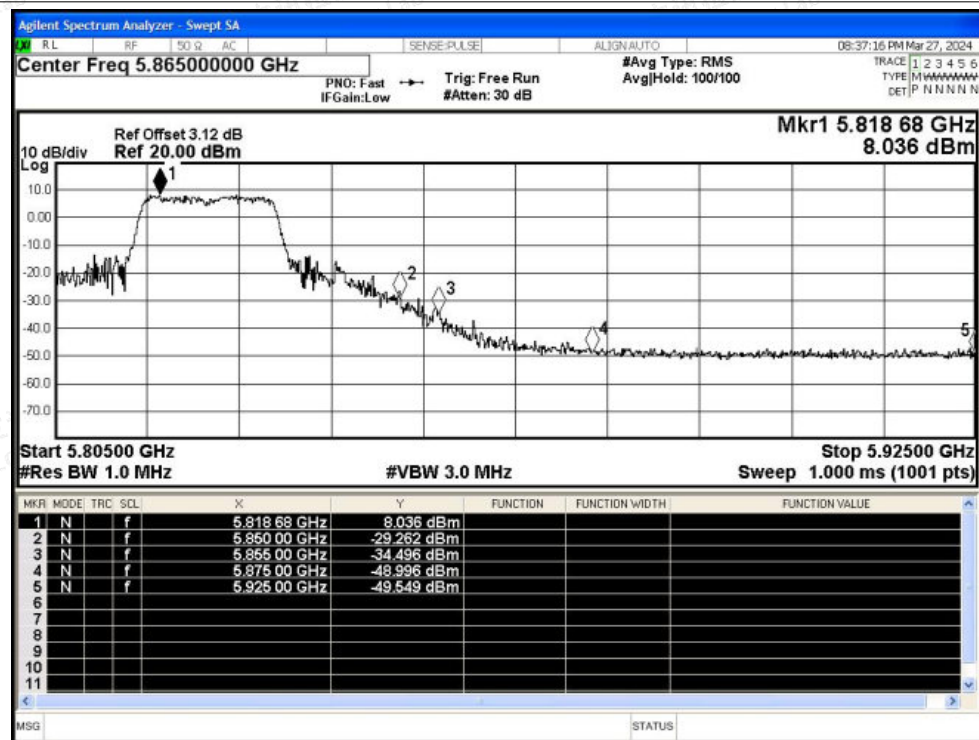
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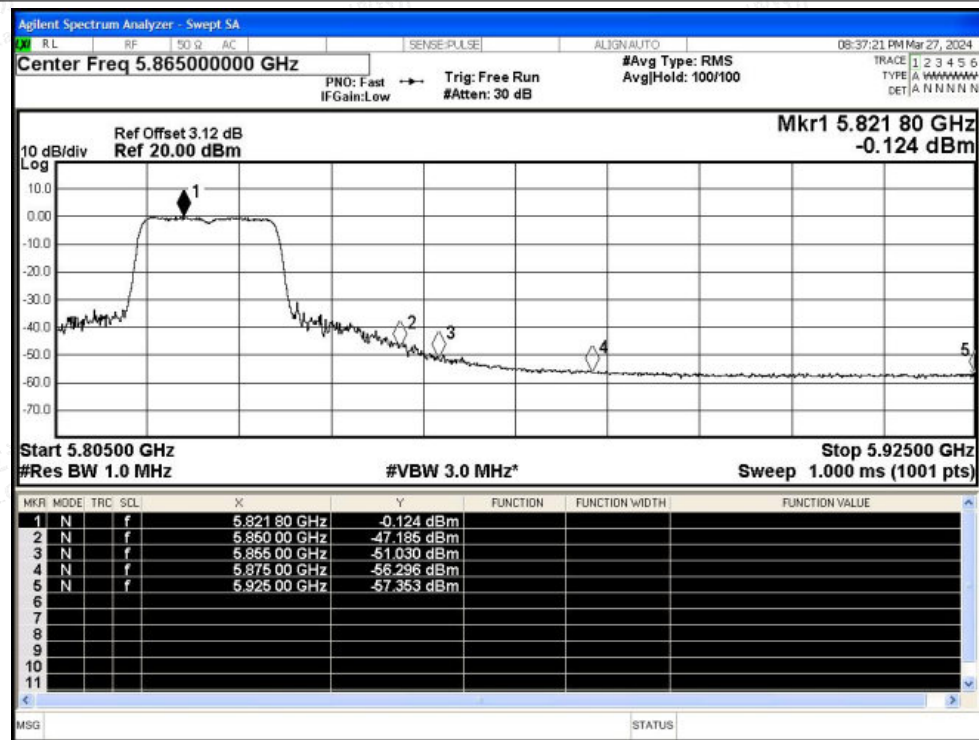
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Restrict Band NVNT ac20 5825MHz Ant1 Peak



Restrict Band NVNT ac20 5825MHz Ant1 Average



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D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant1	5785	0	0	25	Pass
NVNT	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass



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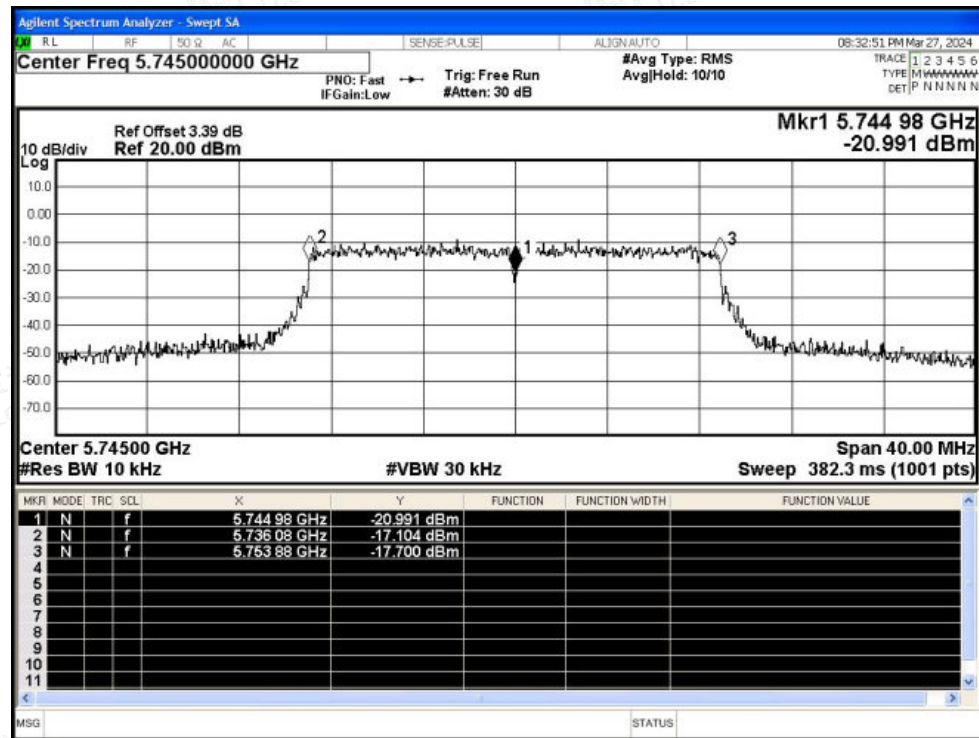
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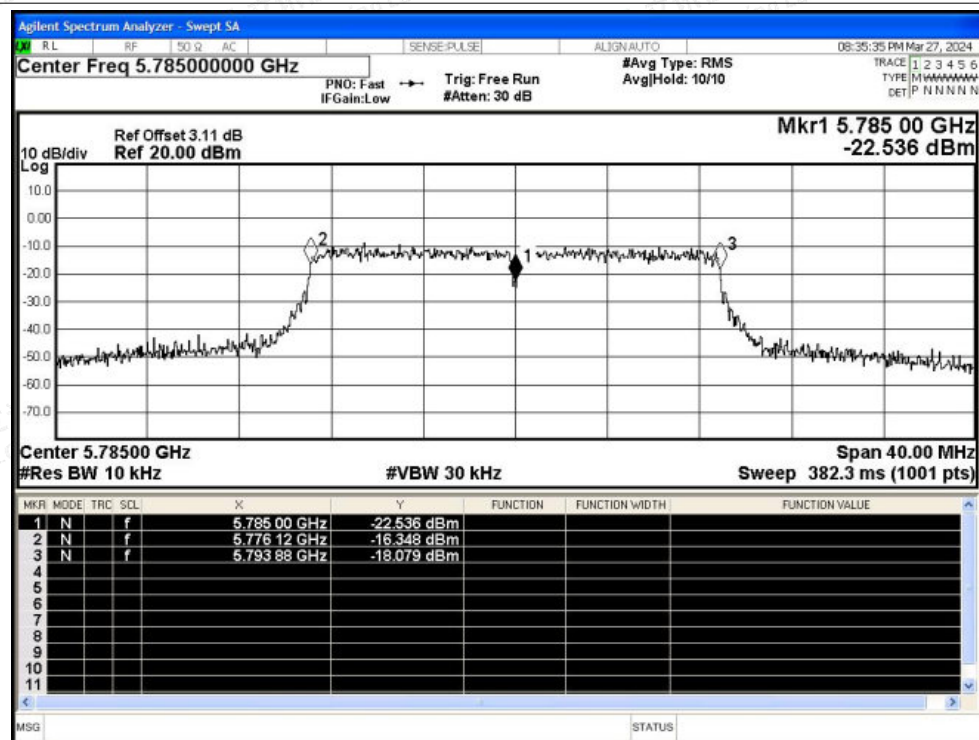


Test Graphs

Freq. Stability NVNT ac20 5745MHz Ant1



Freq. Stability NVNT ac20 5785MHz Ant1

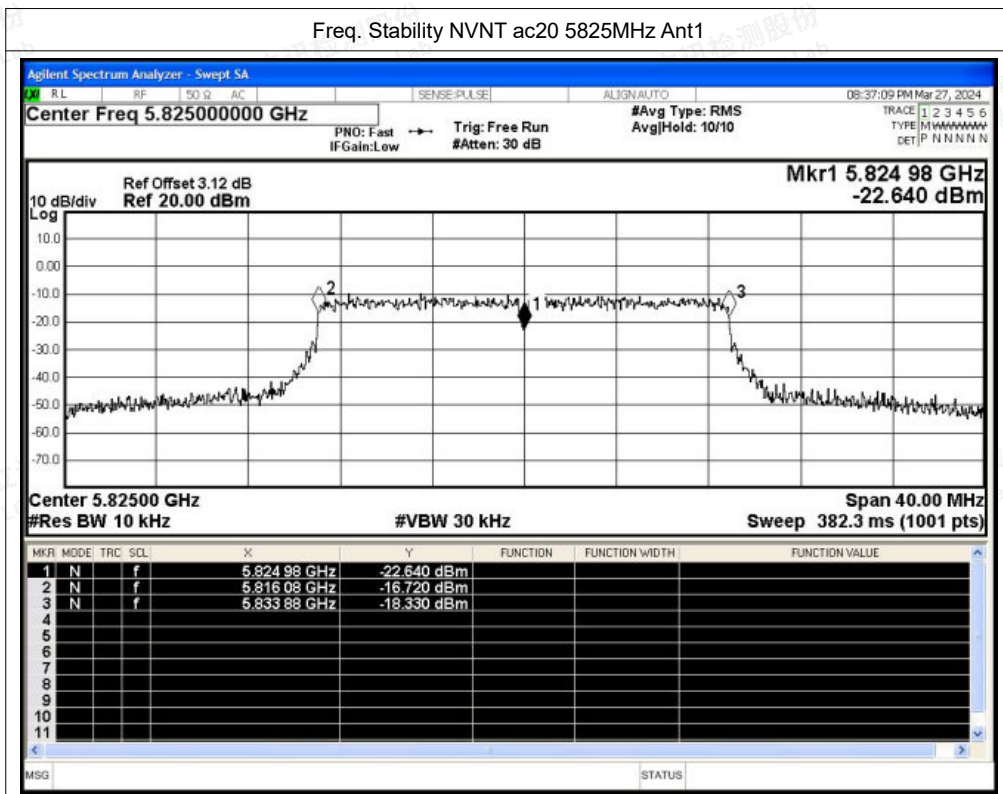


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D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	89.13	0.5	0.62
NVNT	a	5785	Ant1	89.58	0.48	0.62
NVNT	a	5825	Ant1	89.58	0.48	0.62
NVNT	n20	5745	Ant1	86.4	0.63	0.73
NVNT	n20	5785	Ant1	87.89	0.56	0.73
NVNT	n20	5825	Ant1	85.97	0.66	0.73
NVNT	ac20	5745	Ant1	88.01	0.55	0.72
NVNT	ac20	5785	Ant1	88.01	0.55	0.72
NVNT	ac20	5825	Ant1	96.84	0.14	0.73



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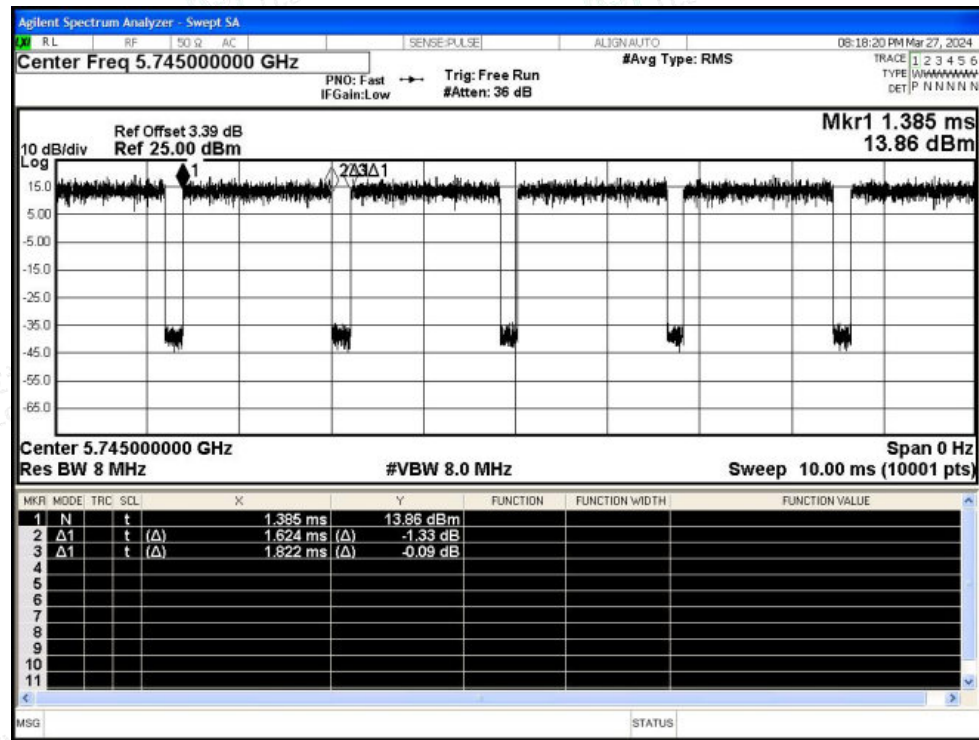
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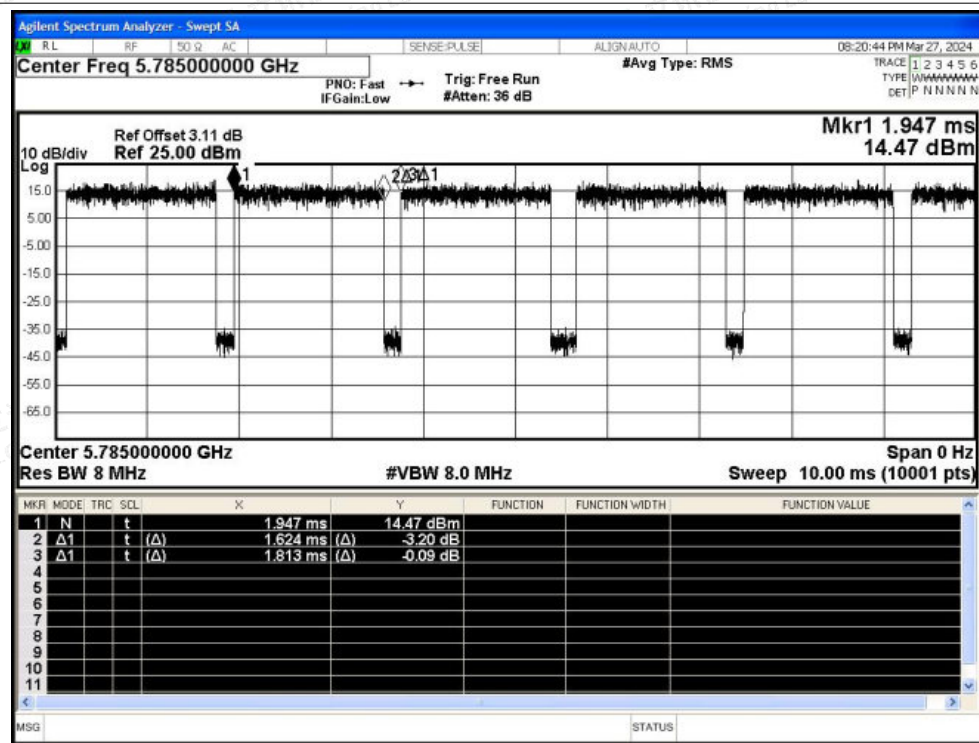


Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

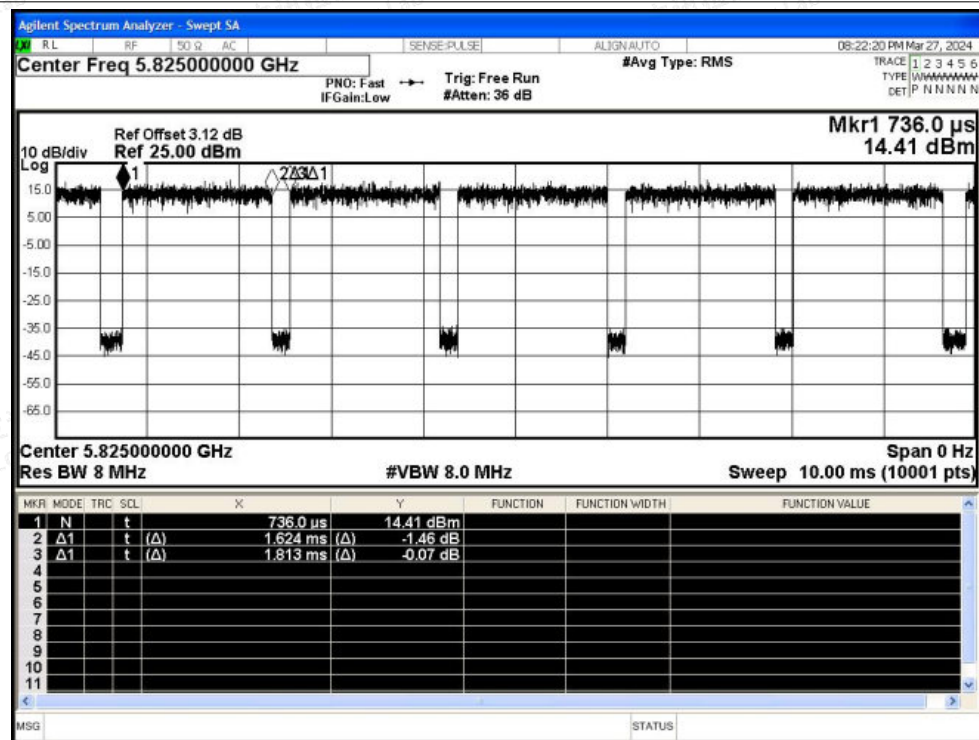
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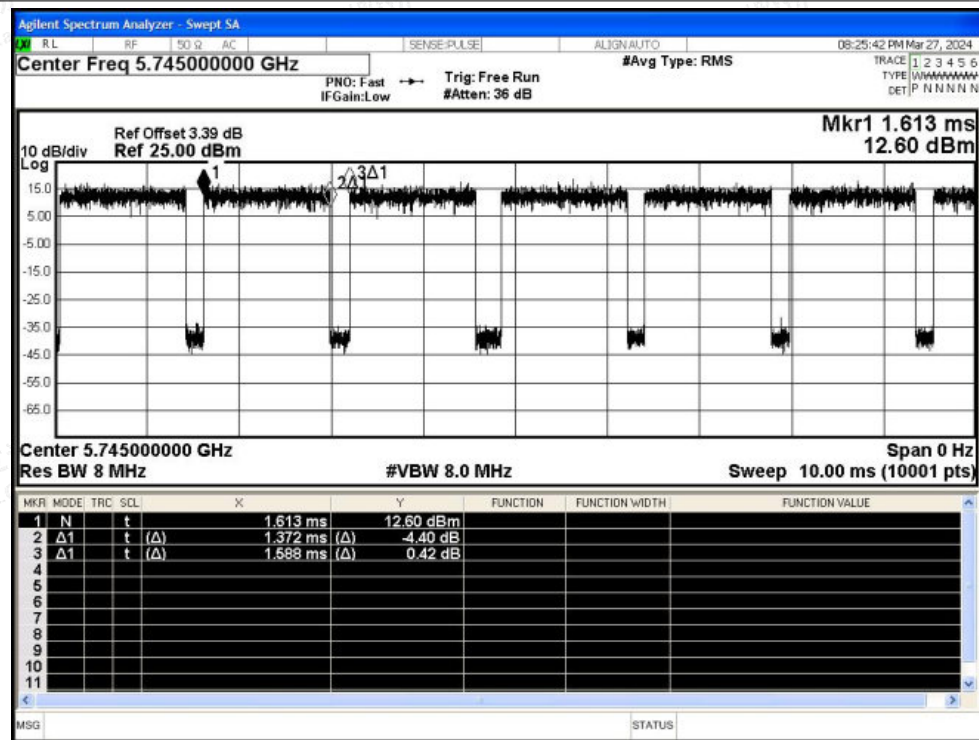
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Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

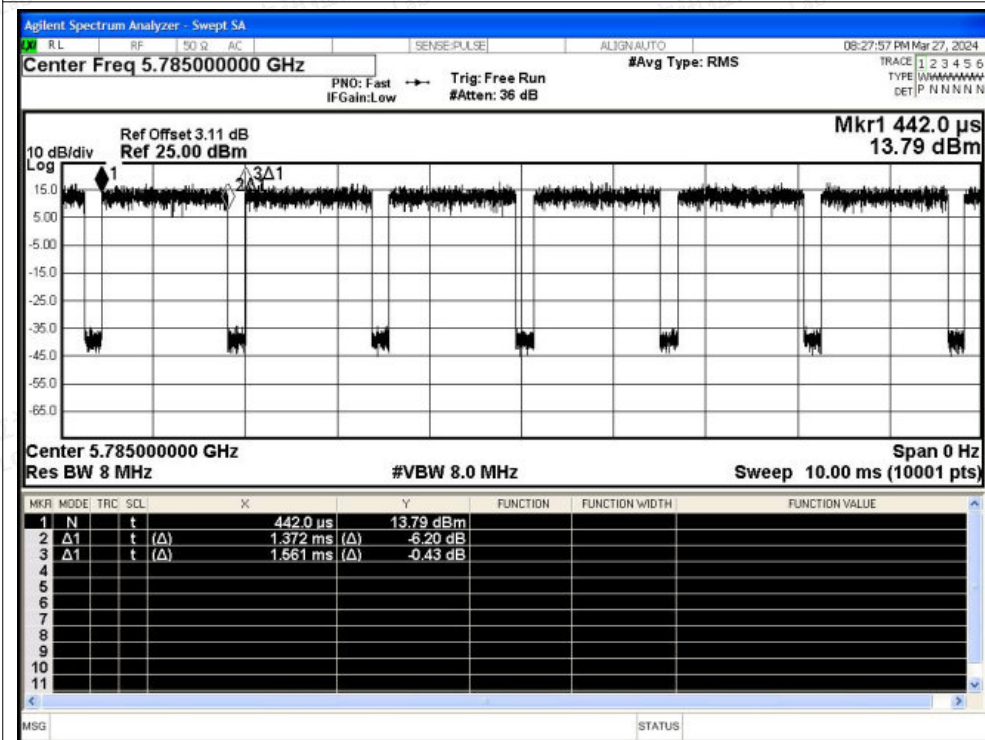
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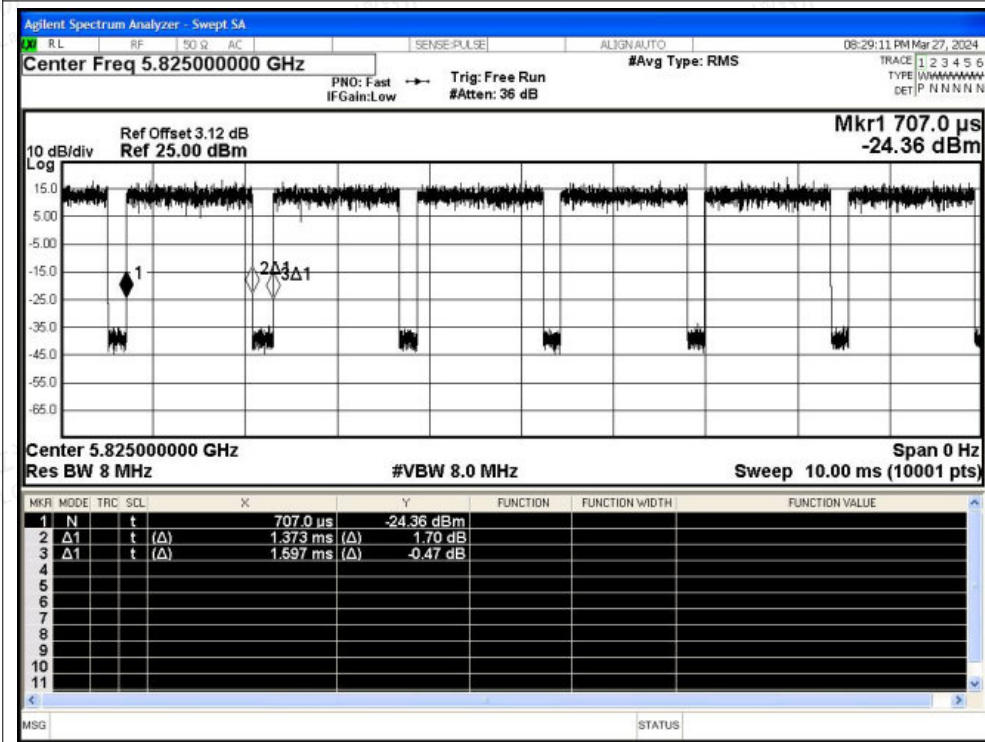
Scan code to check authenticity



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

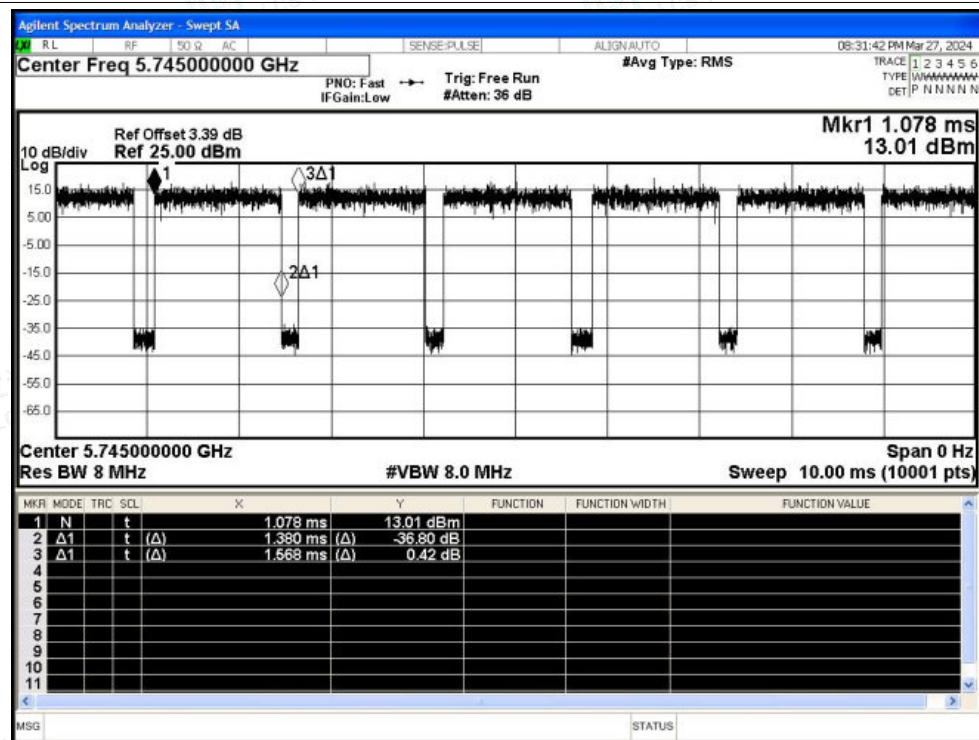
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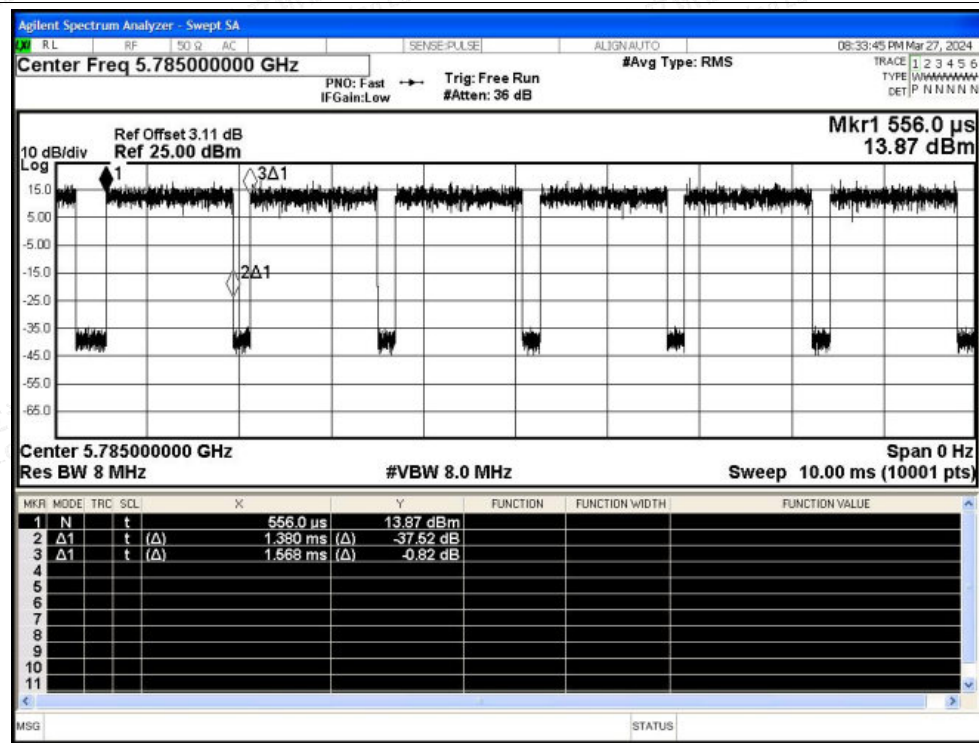
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Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1

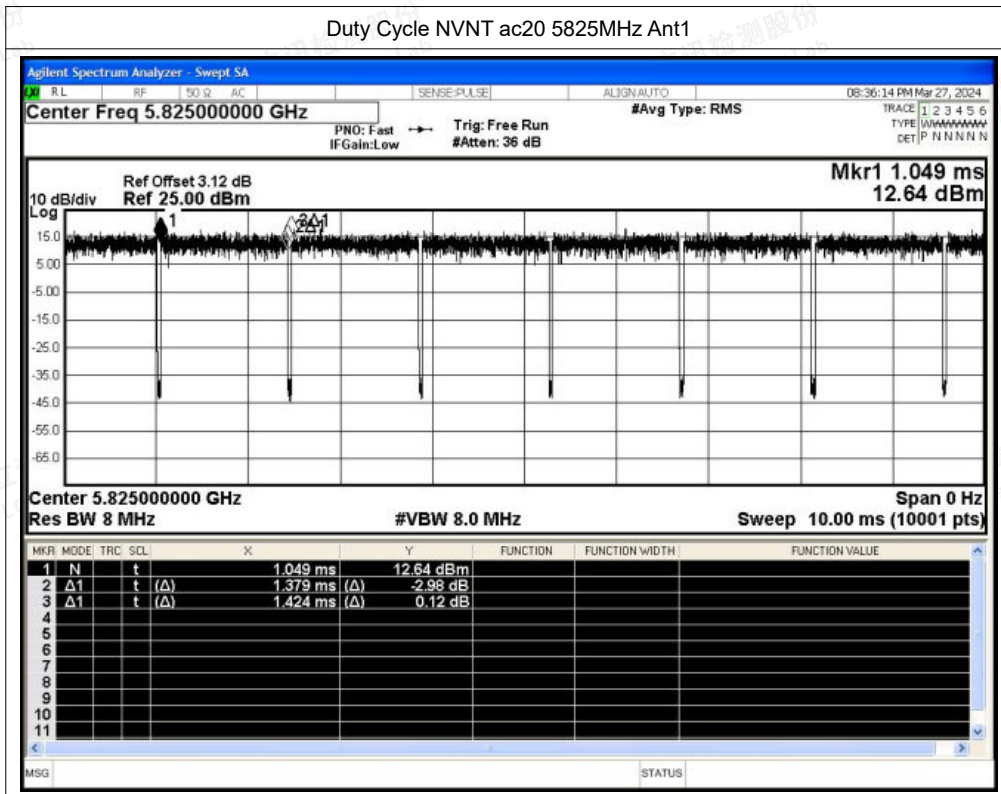


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