



Appendix G

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Oti-Bot

Test Model: IT10287

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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G.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	14.399	0.5	Pass
NVNT	a	5785	Ant1	15.096	0.5	Pass
NVNT	a	5825	Ant1	15.786	0.5	Pass
NVNT	n20	5745	Ant1	16.305	0.5	Pass
NVNT	n20	5785	Ant1	14.165	0.5	Pass
NVNT	n20	5825	Ant1	16.025	0.5	Pass
NVNT	n40	5755	Ant1	34.997	0.5	Pass
NVNT	n40	5795	Ant1	35.112	0.5	Pass
NVNT	ac20	5745	Ant1	15.861	0.5	Pass
NVNT	ac20	5785	Ant1	15.626	0.5	Pass
NVNT	ac20	5825	Ant1	13.87	0.5	Pass
NVNT	ac40	5755	Ant1	35.05	0.5	Pass
NVNT	ac40	5795	Ant1	35.141	0.5	Pass



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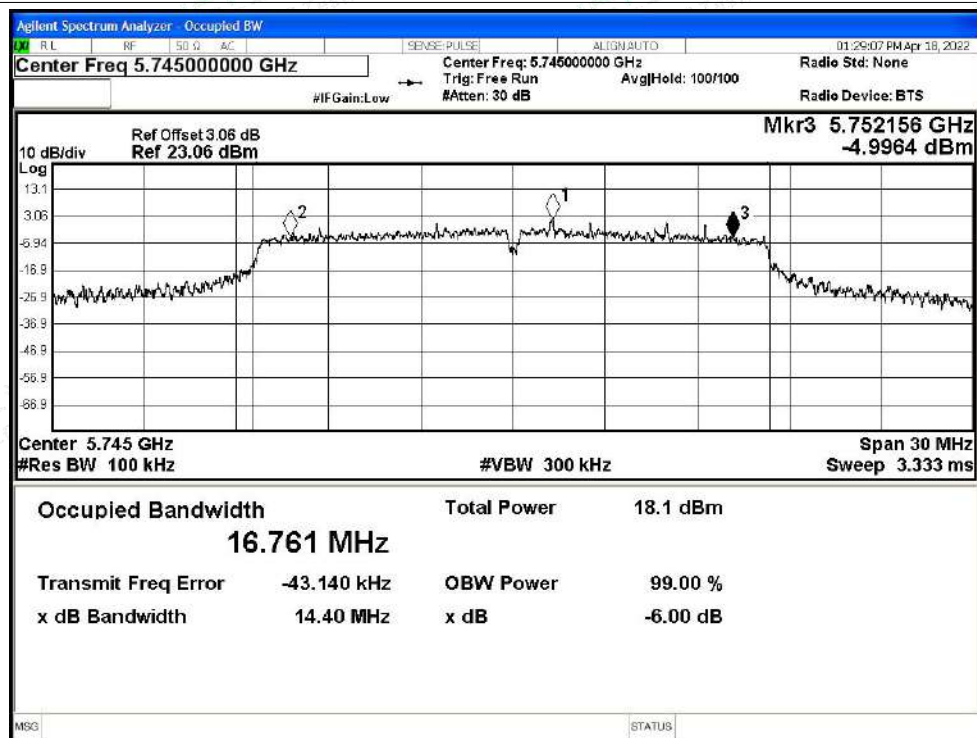
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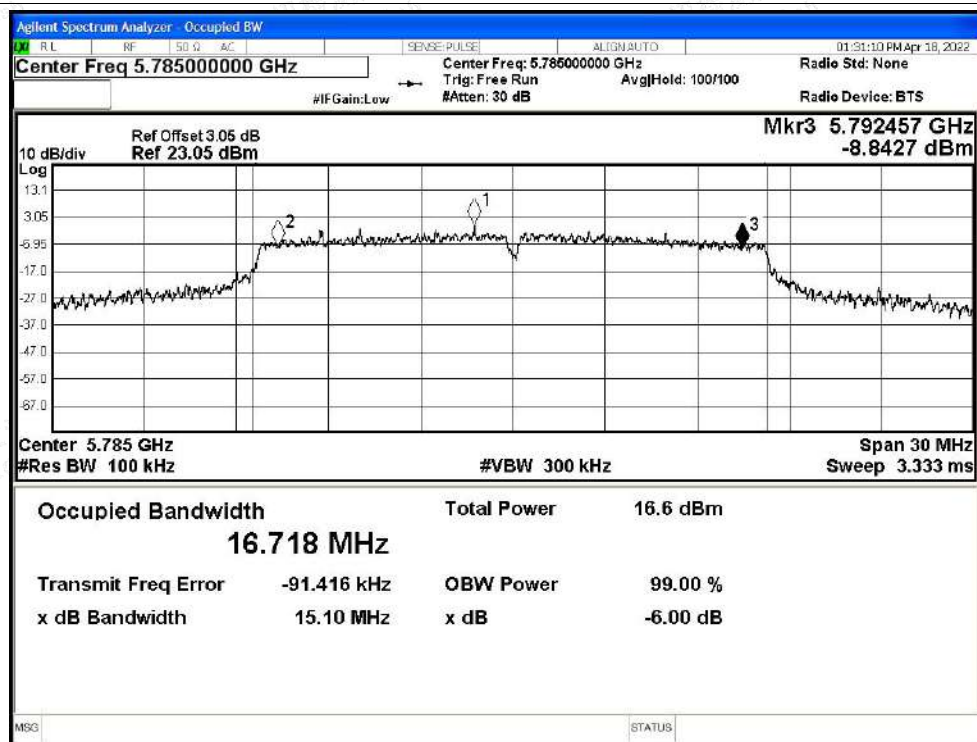


Test Graphs

6dB Bandwidth NVNT a 5745MHz Ant1



6dB Bandwidth NVNT a 5785MHz Ant1



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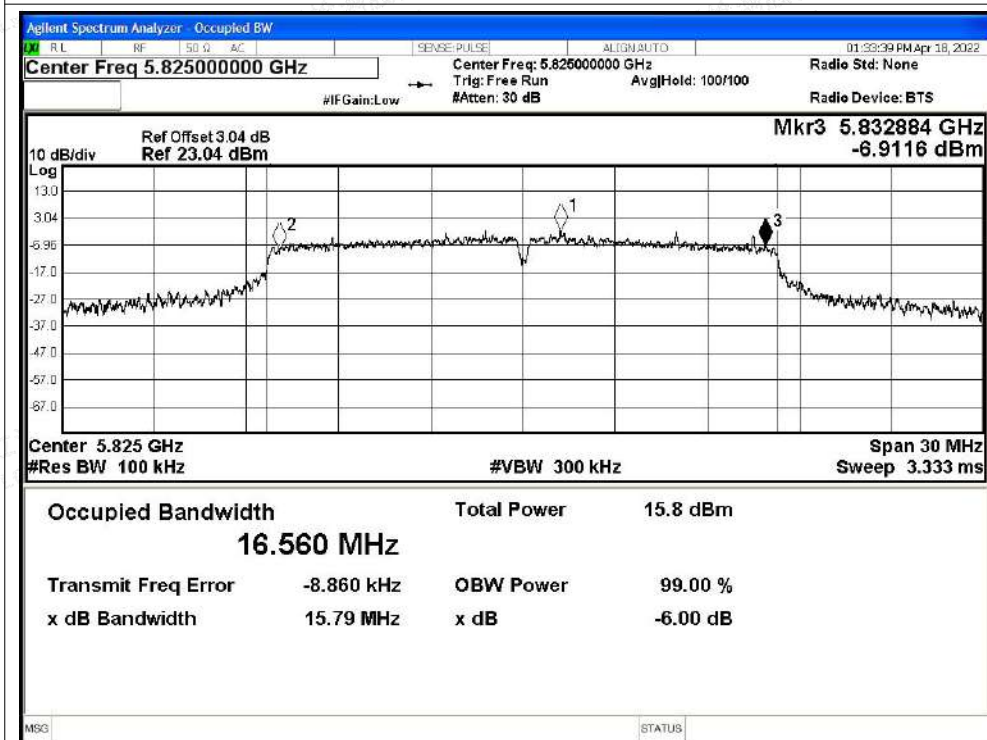
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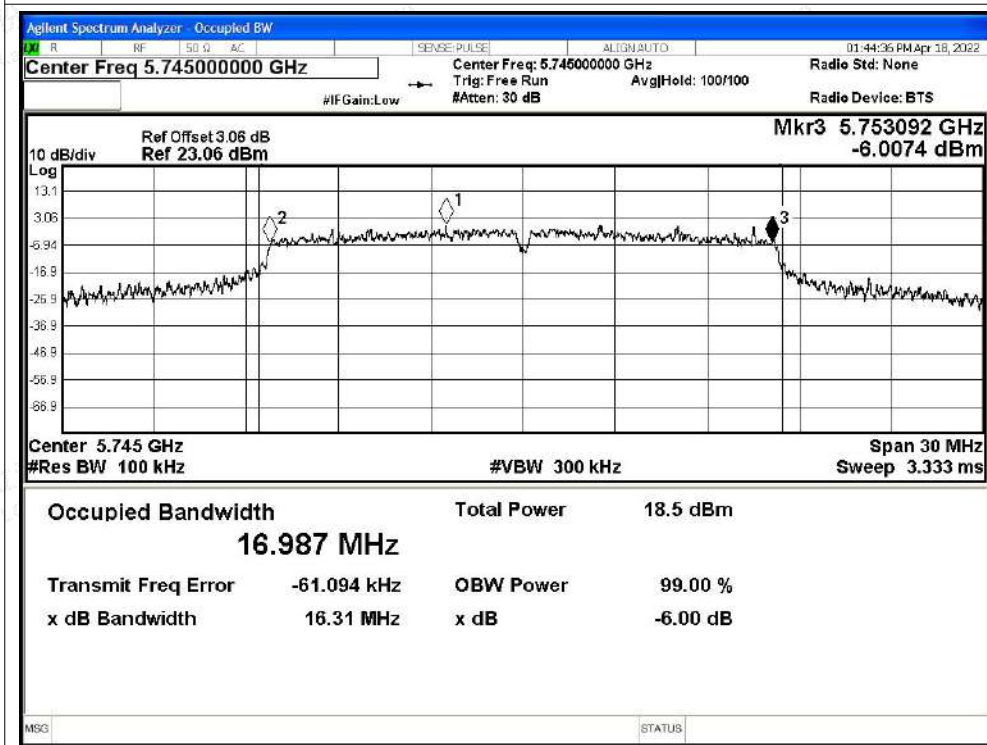
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6dB Bandwidth NVNT a 5825MHz Ant1



6dB Bandwidth NVNT n20 5745MHz Ant1



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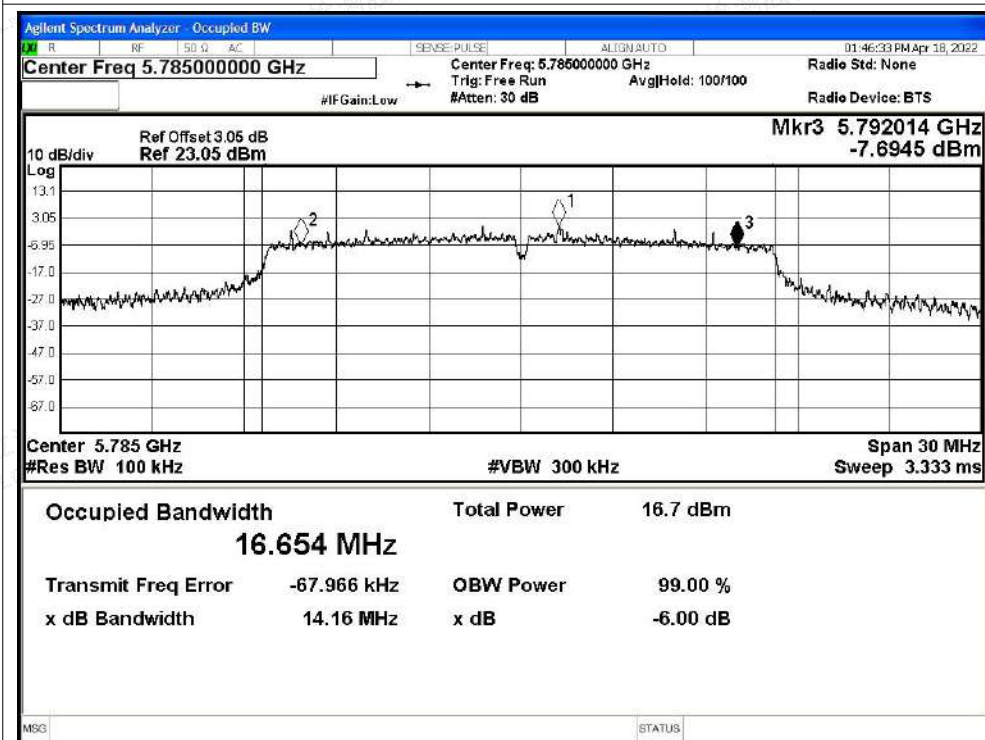
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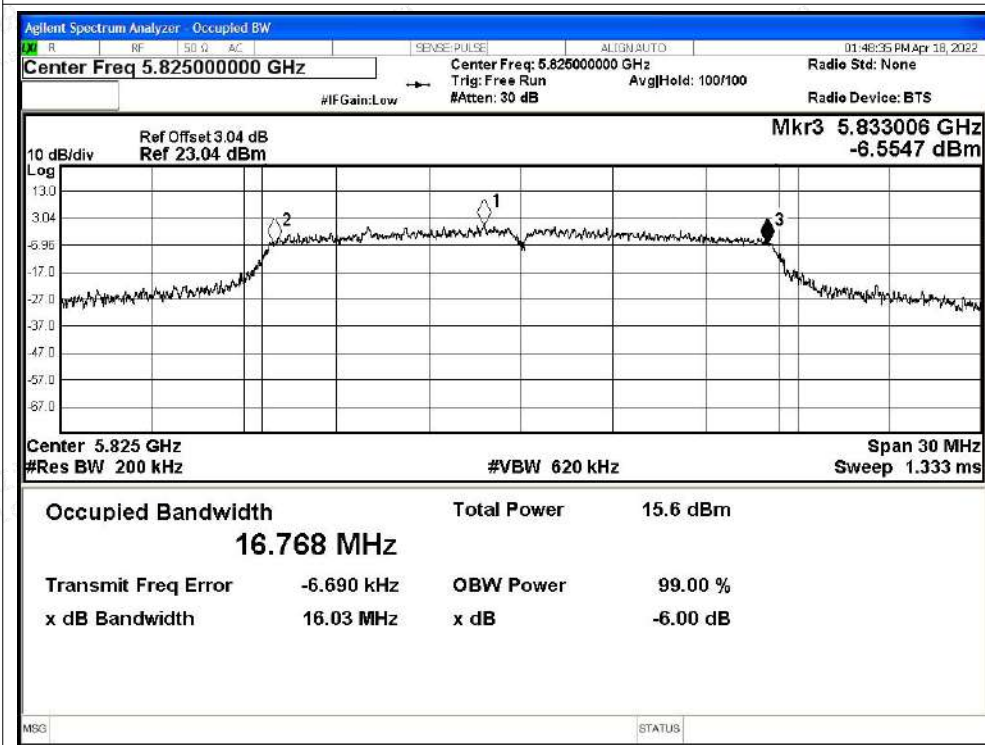
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6dB Bandwidth NVNT n20 5785MHz Ant1



6dB Bandwidth NVNT n20 5825MHz Ant1



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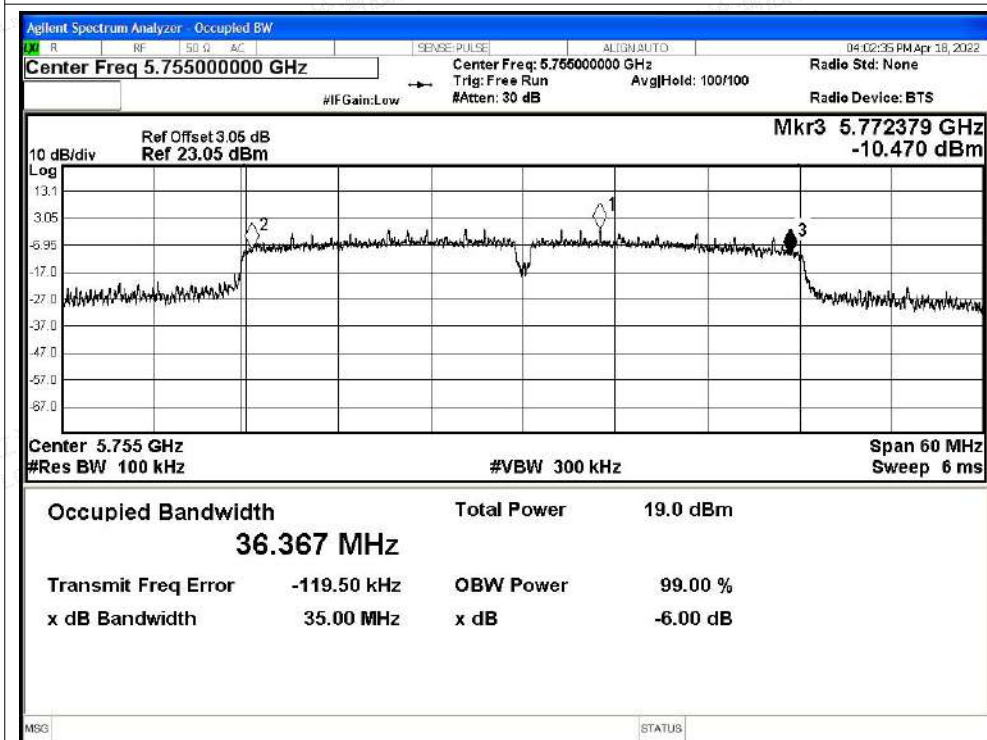
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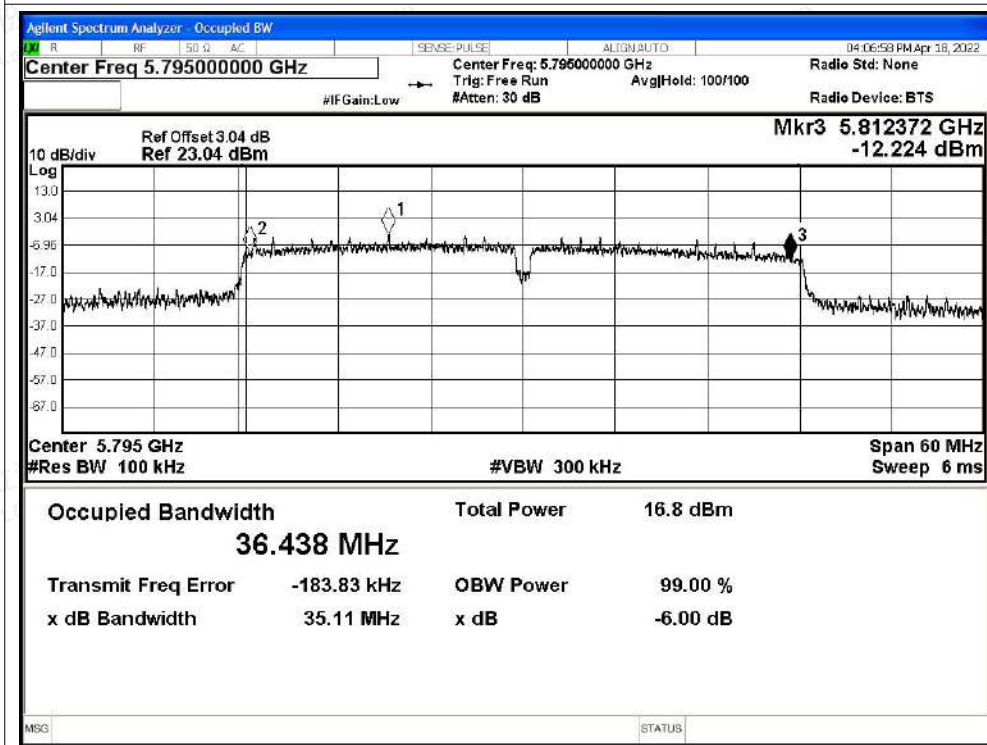
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6dB Bandwidth NVNT n40 5755MHz Ant1



6dB Bandwidth NVNT n40 5795MHz Ant1



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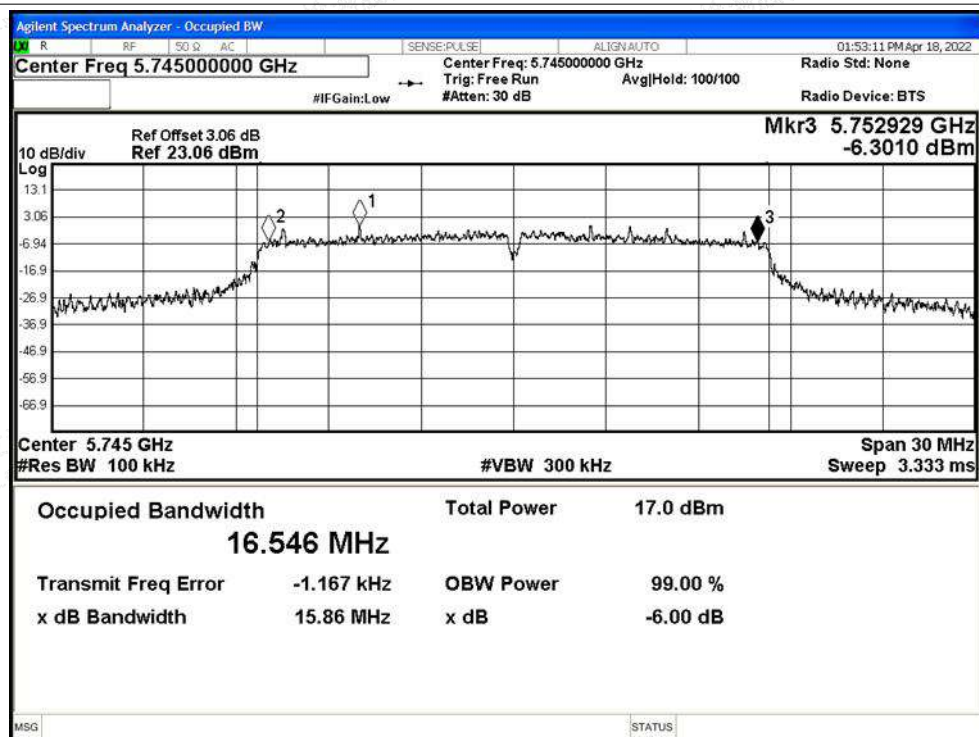
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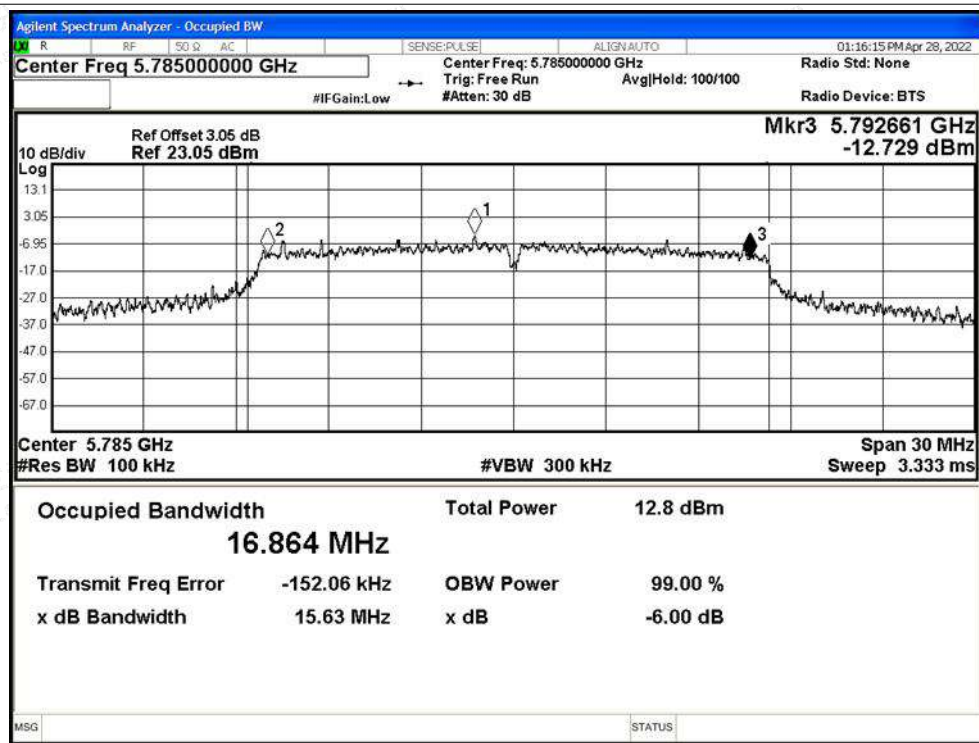
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6dB Bandwidth NVNT ac20 5745MHz Ant1



6dB Bandwidth NVNT ac20 5785MHz Ant1



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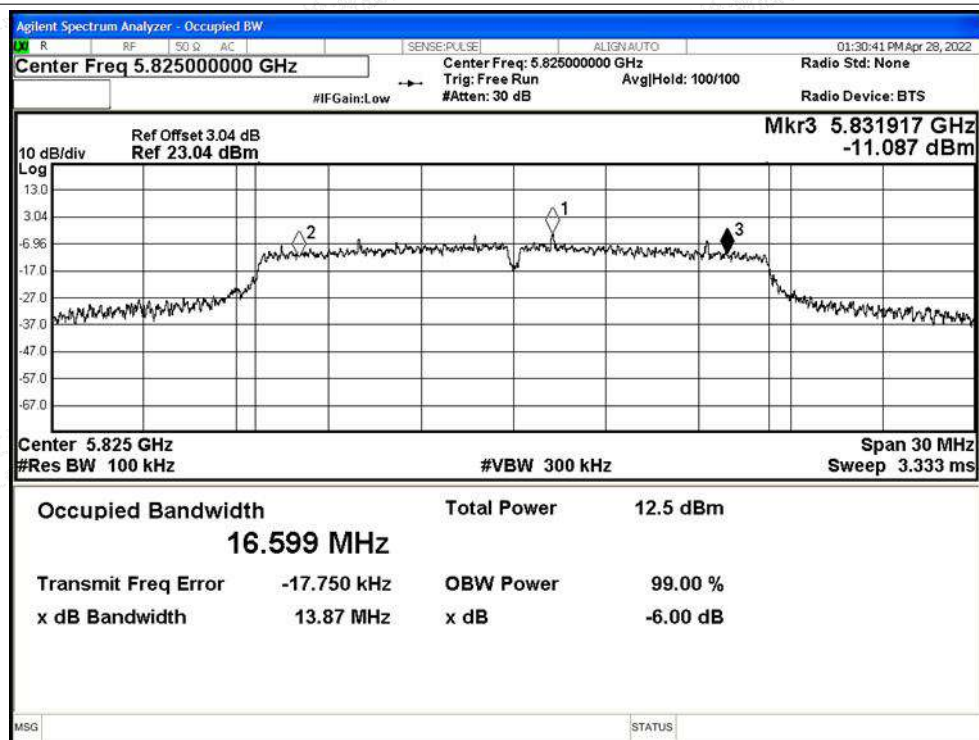
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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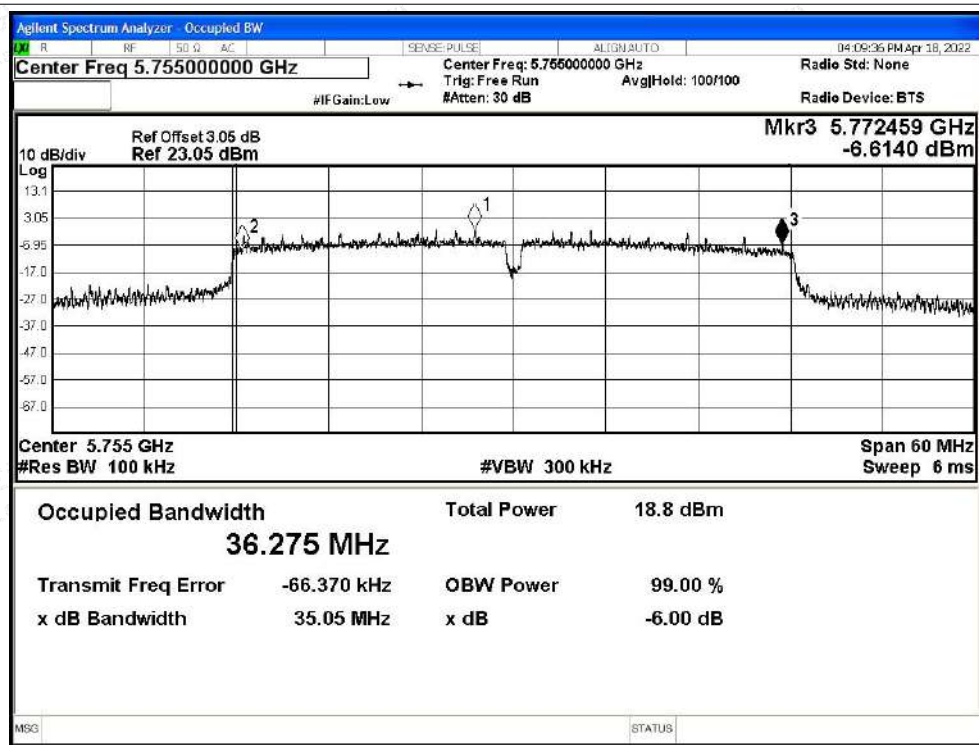
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6dB Bandwidth NVNT ac20 5825MHz Ant1



6dB Bandwidth NVNT ac40 5755MHz Ant1

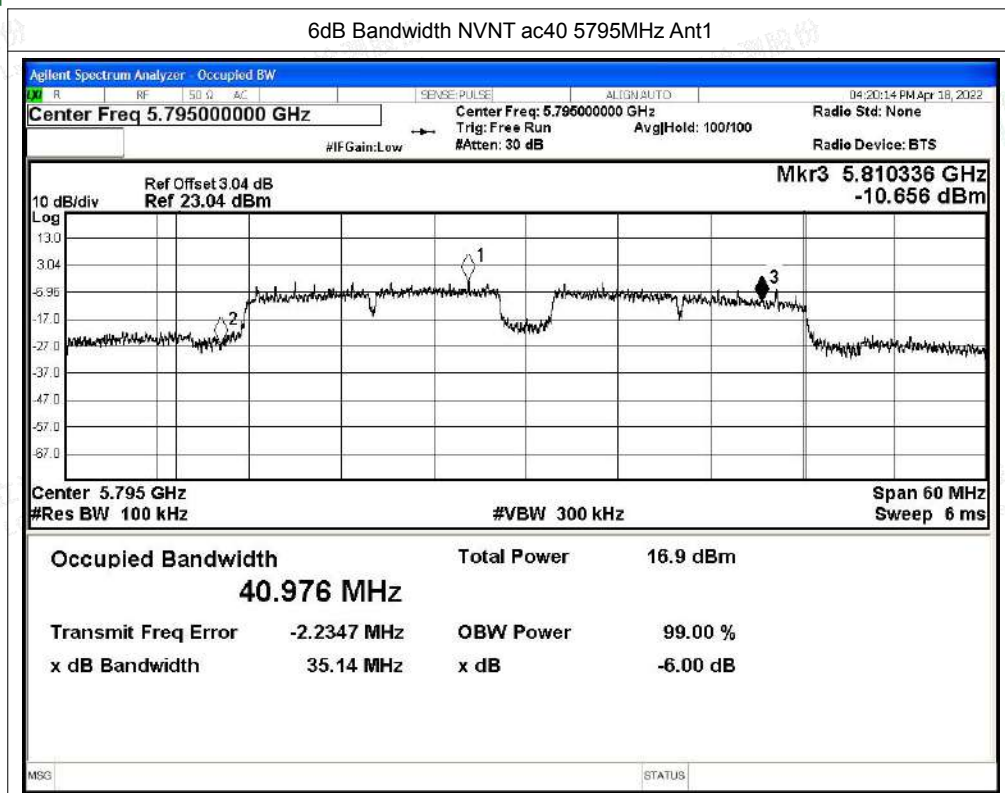


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G.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.12	30	Pass
NVNT	a	5785	Ant1	10.74	30	Pass
NVNT	a	5825	Ant1	9.87	30	Pass
NVNT	n20	5745	Ant1	12.39	30	Pass
NVNT	n20	5785	Ant1	10.54	30	Pass
NVNT	n20	5825	Ant1	9.65	30	Pass
NVNT	n40	5755	Ant1	12.64	30	Pass
NVNT	n40	5795	Ant1	10.6	30	Pass
NVNT	ac20	5745	Ant1	11.1	30	Pass
NVNT	ac20	5785	Ant1	11.47	30	Pass
NVNT	ac20	5825	Ant1	10.15	30	Pass
NVNT	ac40	5755	Ant1	12.24	30	Pass
NVNT	ac40	5795	Ant1	10.37	30	Pass

Note: The Duty Cycle Factor is compensated in the graph.



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G.3 Maximum Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-4.5	0.1	-4.4	30	Pass
NVNT	a	5785	Ant1	-5.39	0.11	-5.28	30	Pass
NVNT	a	5825	Ant1	-4.88	0.11	-4.77	30	Pass
NVNT	n20	5745	Ant1	-6.43	0.11	-6.32	30	Pass
NVNT	n20	5785	Ant1	-7.97	0.11	-7.86	30	Pass
NVNT	n20	5825	Ant1	-8.86	0.11	-8.75	30	Pass
NVNT	n40	5755	Ant1	-6.5	0.22	-6.28	30	Pass
NVNT	n40	5795	Ant1	-8.75	0.22	-8.53	30	Pass
NVNT	ac20	5745	Ant1	-8.14	0.11	-8.03	30	Pass
NVNT	ac20	5785	Ant1	-10.66	0	-10.66	30	Pass
NVNT	ac20	5825	Ant1	-12.57	0	-12.57	30	Pass
NVNT	ac40	5755	Ant1	-7.56	0.22	-7.34	30	Pass
NVNT	ac40	5795	Ant1	-11.19	0.1	-11.09	30	Pass



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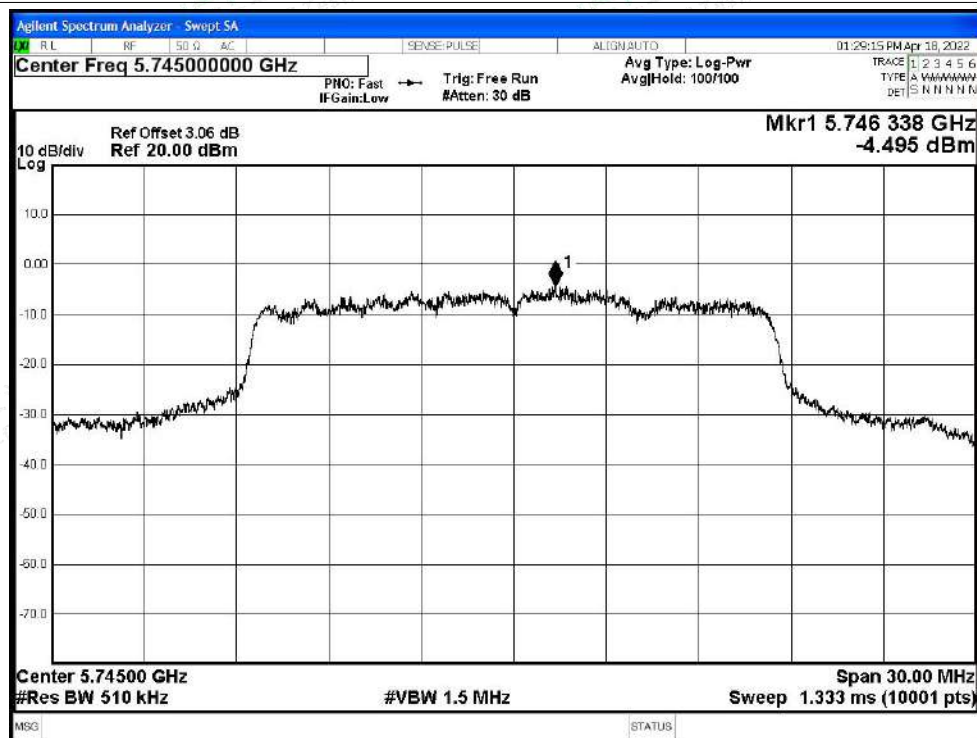
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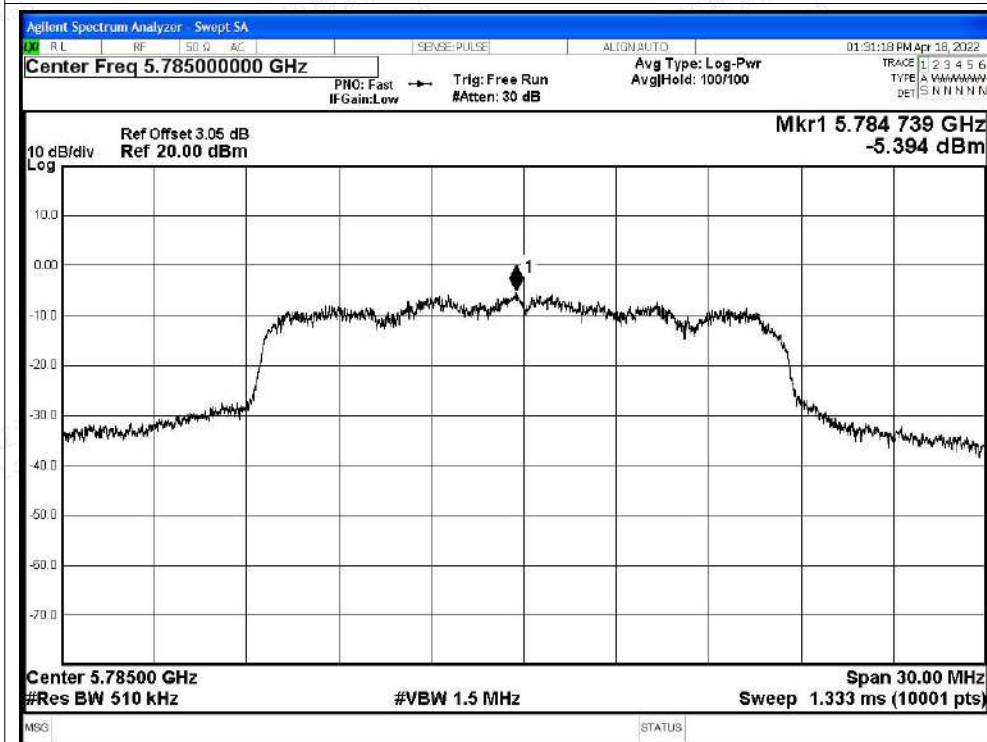


Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



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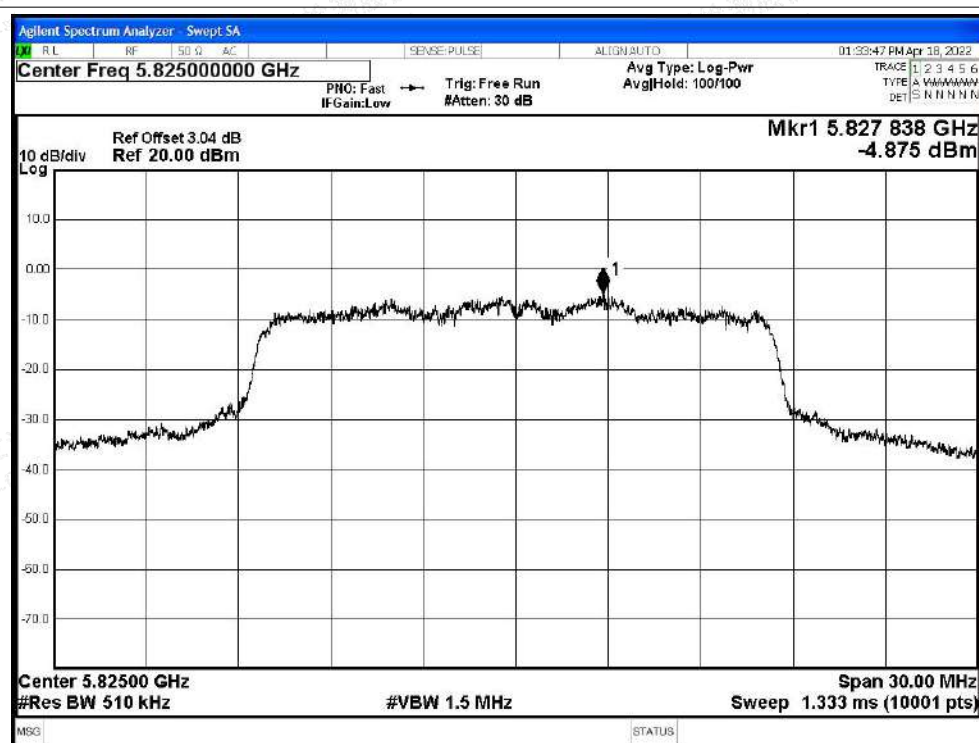
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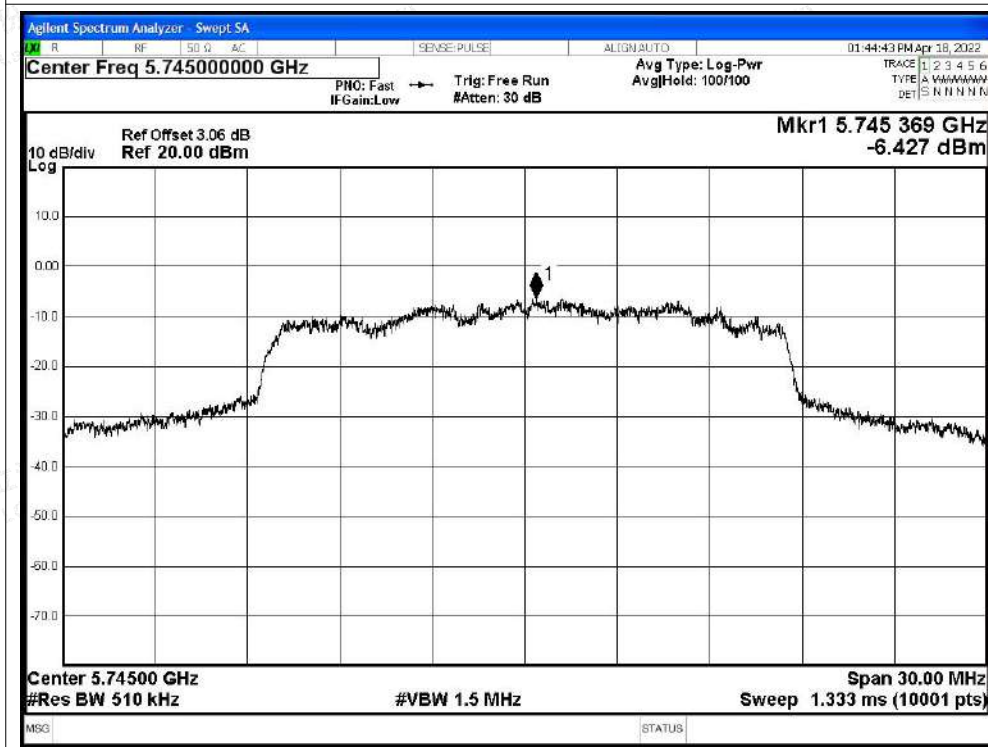
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PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



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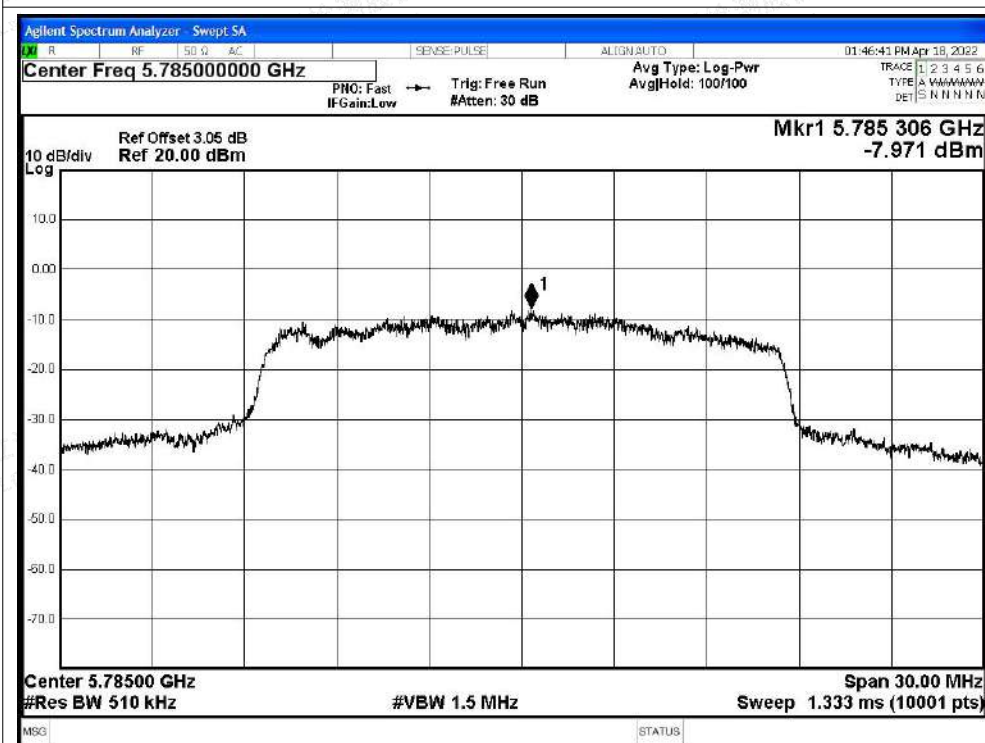
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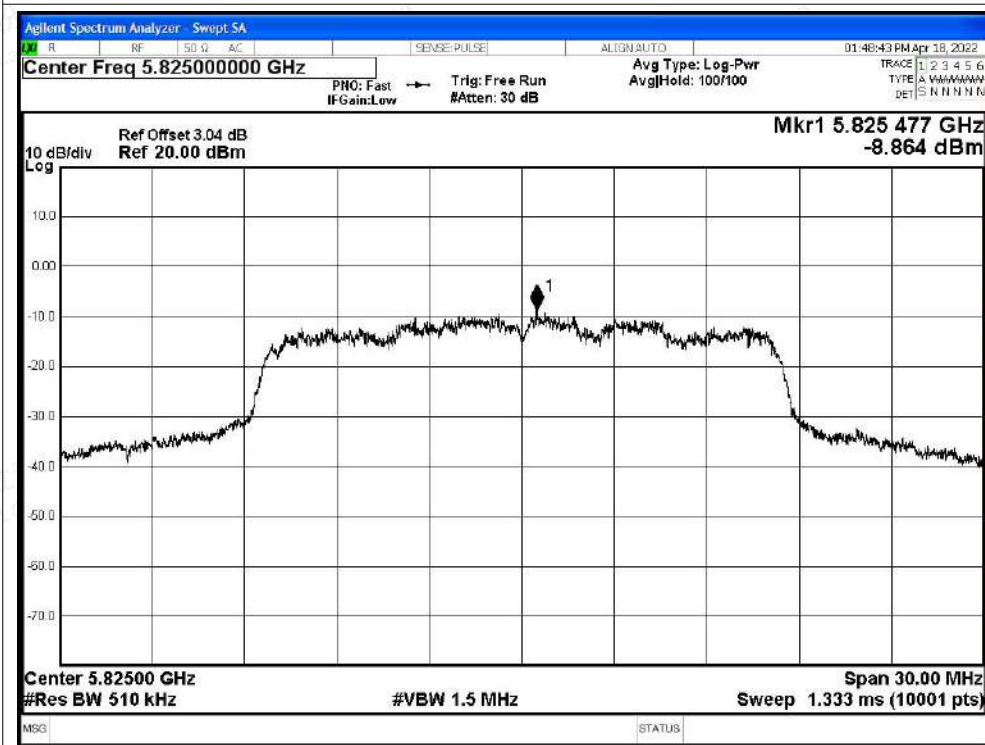
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PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



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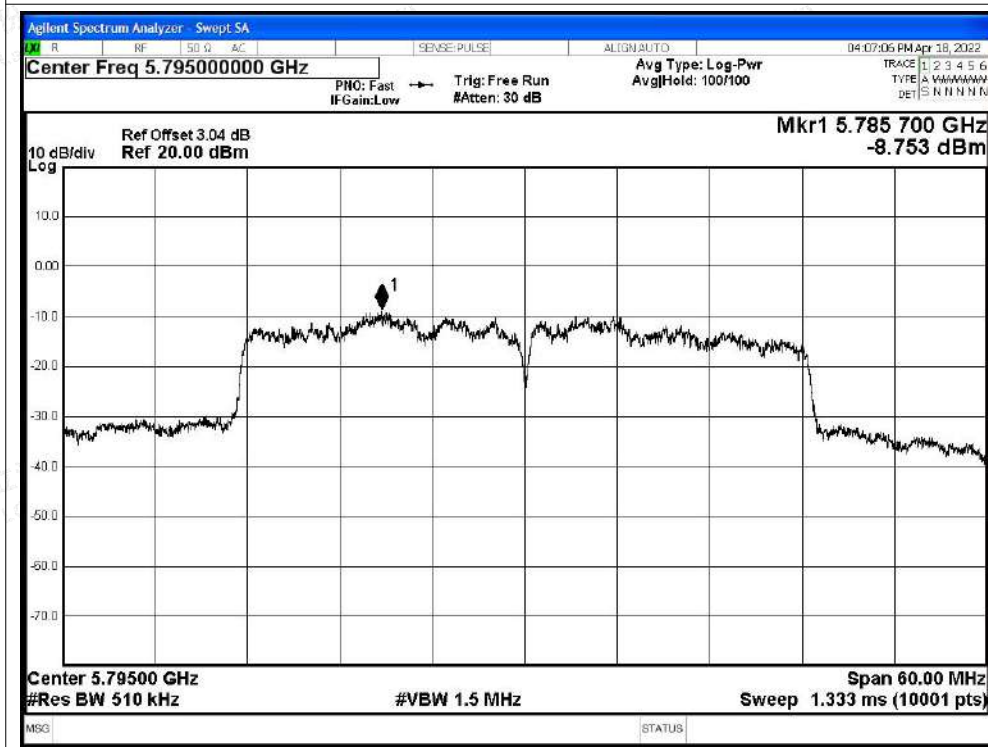
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PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



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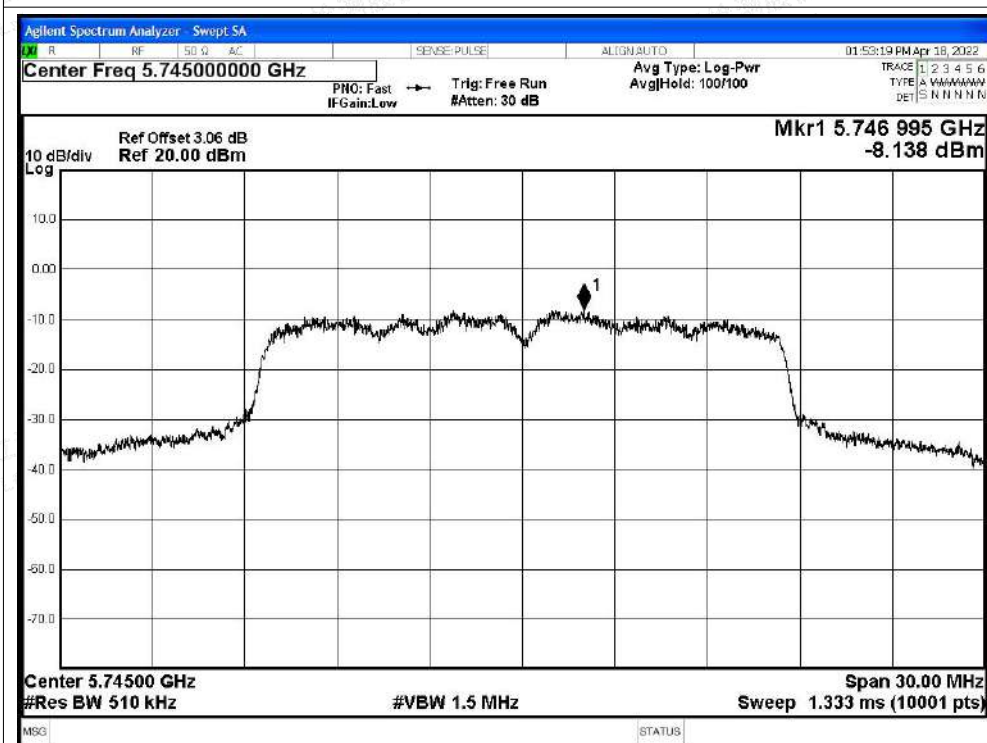
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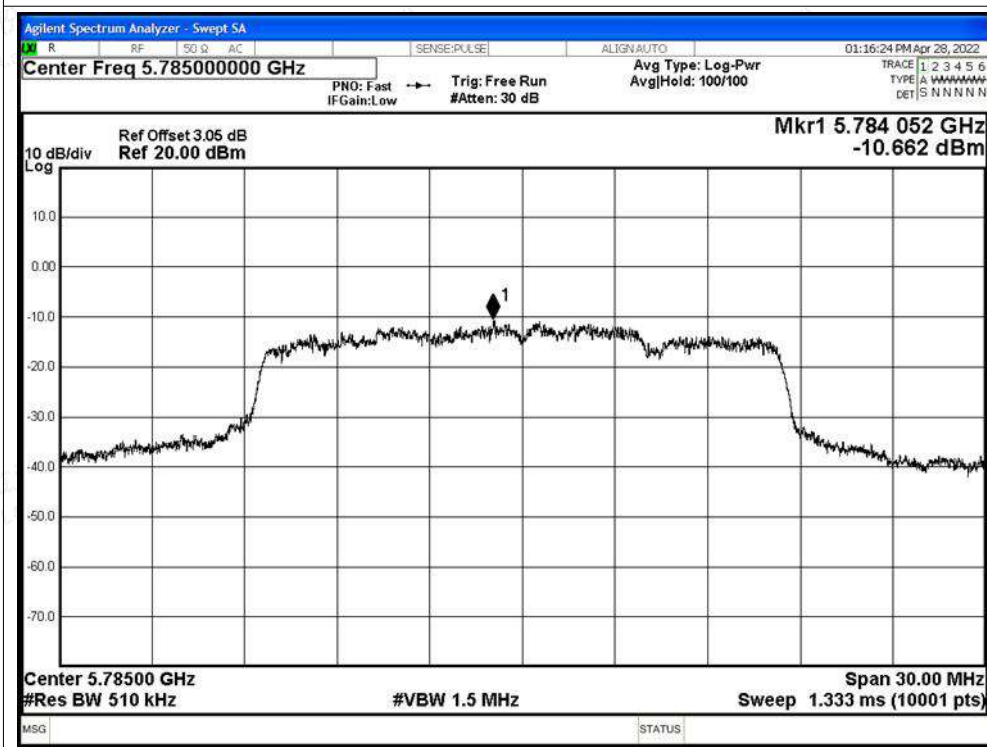
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PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



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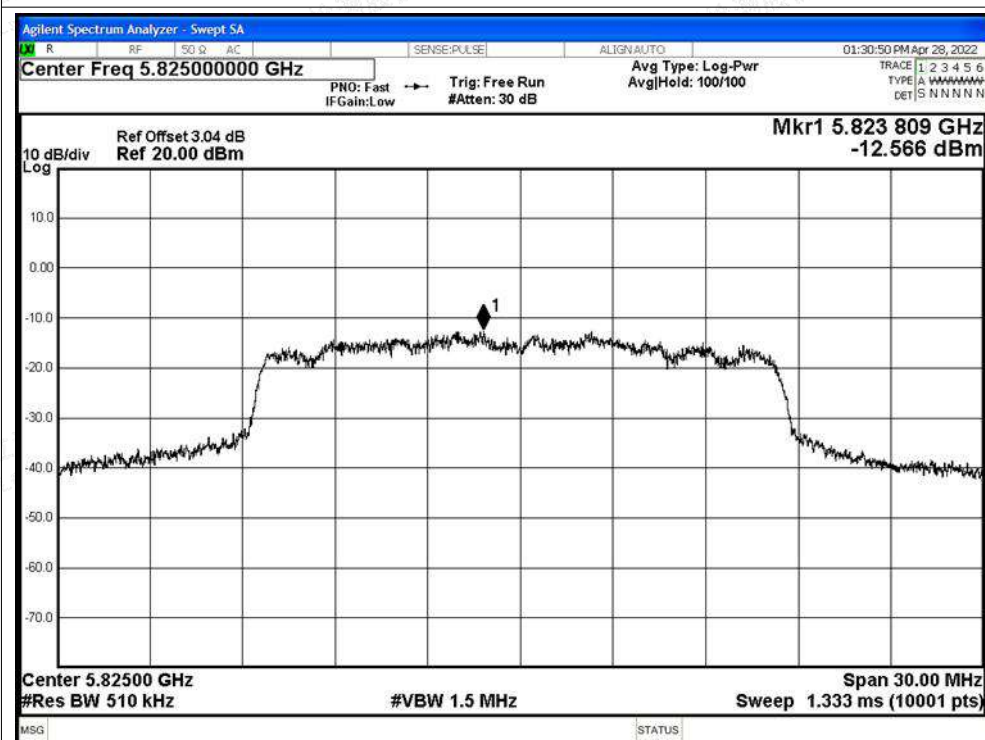
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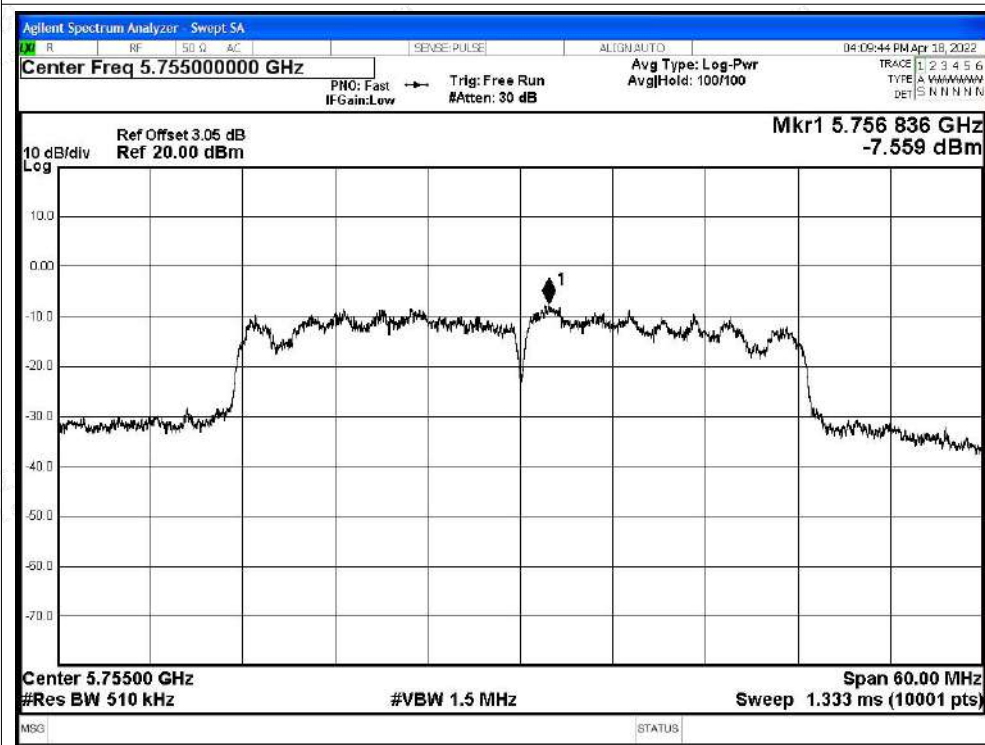
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PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1

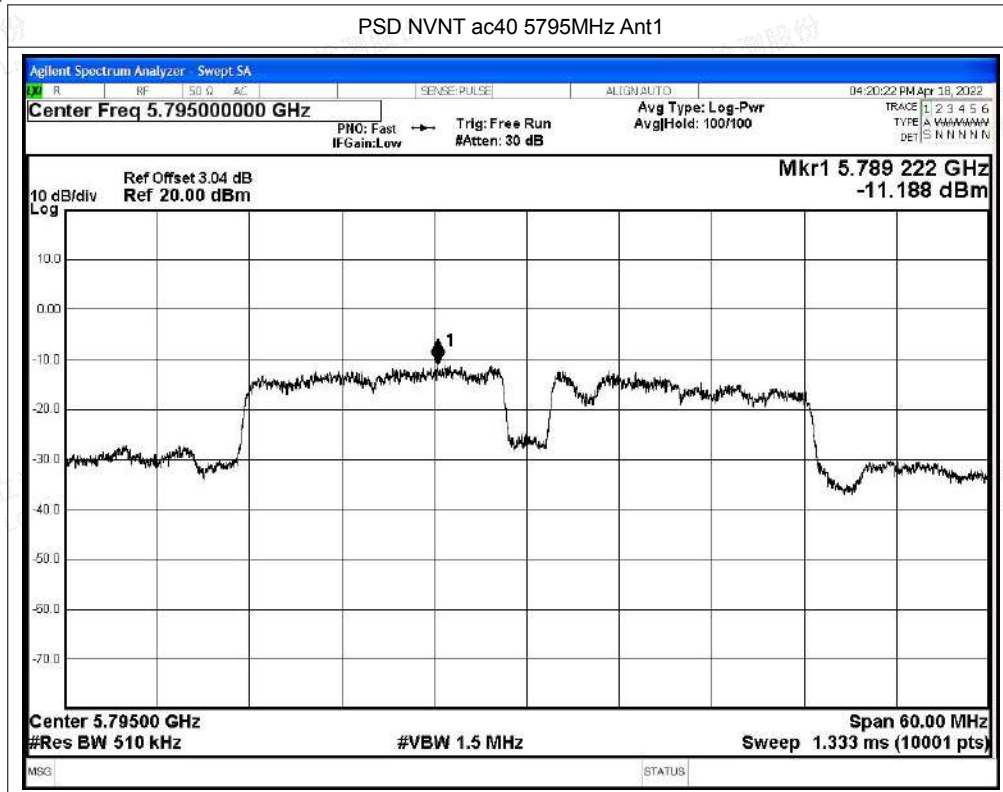


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G.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5745	Ant1	5650	-46.43	2	-44.43	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-55.76	2	-53.76	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-43.44	2	-41.44	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-52.76	2	-50.76	Average	10	Pass
NVNT	a	5745	Ant1	5720	-33.69	2	-31.69	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-45.67	2	-43.67	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-22.06	2	-20.06	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-35.64	2	-33.64	Average	27	Pass
NVNT	a	5825	Ant1	5850	-35.89	2	-33.89	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-50.09	2	-48.09	Average	27	Pass
NVNT	a	5825	Ant1	5855	-43.06	2	-41.06	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-53.54	2	-51.54	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-47.13	2	-45.13	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-56.89	2	-54.89	Average	10	Pass
NVNT	a	5825	Ant1	5925	-48.67	2	-46.67	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-58.27	2	-56.27	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-46.21	2	-44.21	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-55.64	2	-53.64	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-43.18	2	-41.18	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-52.59	2	-50.59	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-31.55	2	-29.55	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-44.15	2	-42.15	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-23.69	2	-21.69	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-34.31	2	-32.31	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-35.92	2	-33.92	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-49.91	2	-47.91	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-41.56	2	-39.56	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-53.65	2	-51.65	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-47.41	2	-45.41	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-56.77	2	-54.77	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-49.55	2	-47.55	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-58.32	2	-56.32	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-46.68	2	-44.68	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-56.25	2	-54.25	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-28.2	2	-26.2	Peak	10	Pass
NVNT	n40	5755	Ant1	5700	-43.28	2	-41.28	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-18.57	2	-16.57	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-28.75	2	-26.75	Average	15.6	Pass



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NVNT	n40	5755	Ant1	5725	-15.53	2	-13.53	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-26.14	2	-24.14	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-39.17	2	-37.17	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-49.78	2	-47.78	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-41.11	2	-39.11	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-52.15	2	-50.15	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-47.37	2	-45.37	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-57.31	2	-55.31	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-49.06	2	-47.06	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-58.53	2	-56.53	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-46.98	2	-44.98	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-56.25	2	-54.25	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-45.59	2	-43.59	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-53.77	2	-51.77	Average	10	Pass
NVNT	ac20	5745	Ant1	5720	-36.1	2	-34.1	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-49.2	2	-47.2	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-22.59	2	-20.59	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-38.52	2	-36.52	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-44.93	2	-42.93	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-56.41	2	-54.41	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-49.07	2	-47.07	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-57.76	2	-55.76	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-48.29	2	-46.29	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-58.4	2	-56.4	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-49.18	2	-47.18	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-58.43	2	-56.43	Average	-27	Pass
NVNT	ac40	5755	Ant1	5650	-47.09	2	-45.09	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-56.09	2	-54.09	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-32.36	2	-30.36	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-44.45	2	-42.45	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-18.68	2	-16.68	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-29.79	2	-27.79	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-19.56	2	-17.56	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-26.98	2	-24.98	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-33.09	2	-31.09	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-43.21	2	-41.21	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-40.3	2	-38.3	Peak	15.6	Pass
NVNT	ac40	5795	Ant1	5855	-50.67	2	-48.67	Average	15.6	Pass
NVNT	ac40	5795	Ant1	5875	-46.68	2	-44.68	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-56.22	2	-54.22	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-48.87	2	-46.87	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-58.6	2	-56.6	Average	-27	Pass



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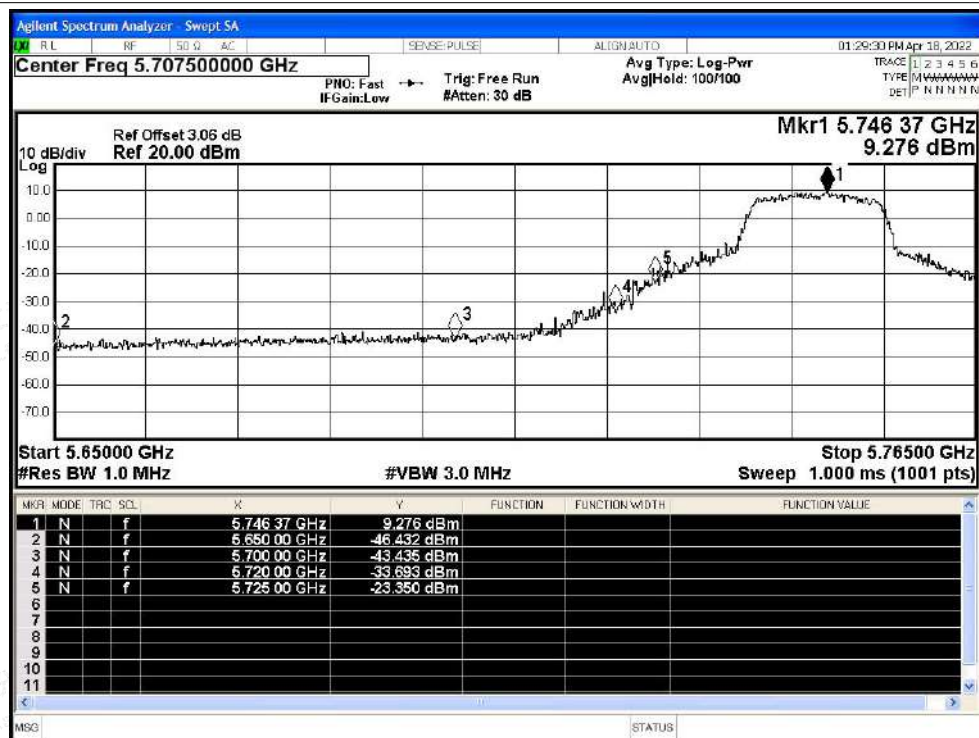
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

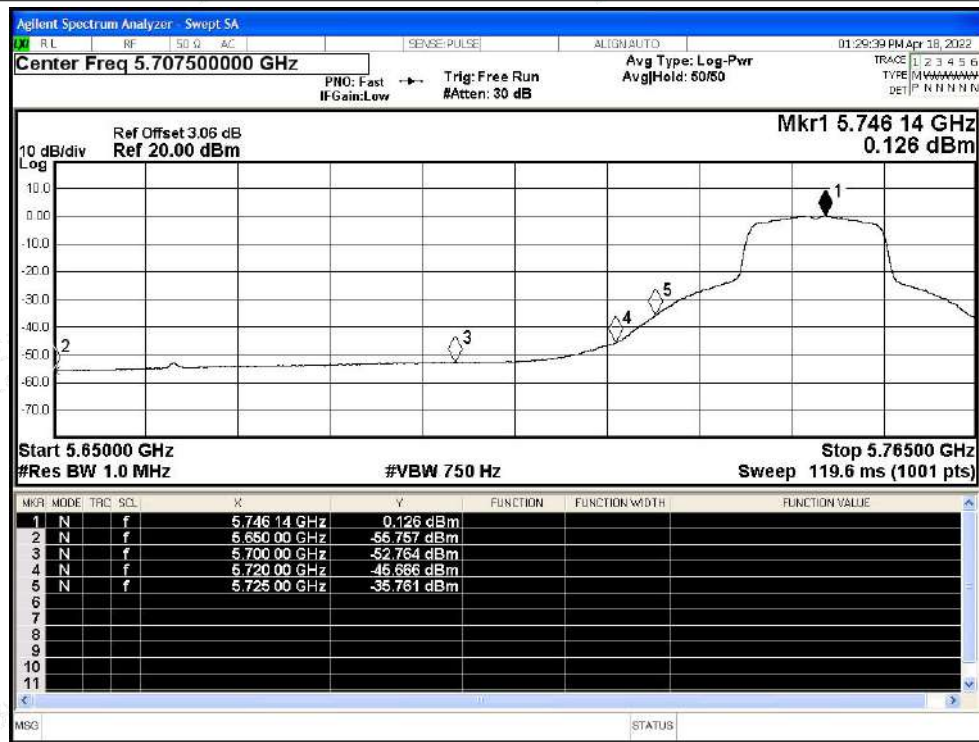


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak



Restrict Band NVNT a 5745MHz Ant1 Average



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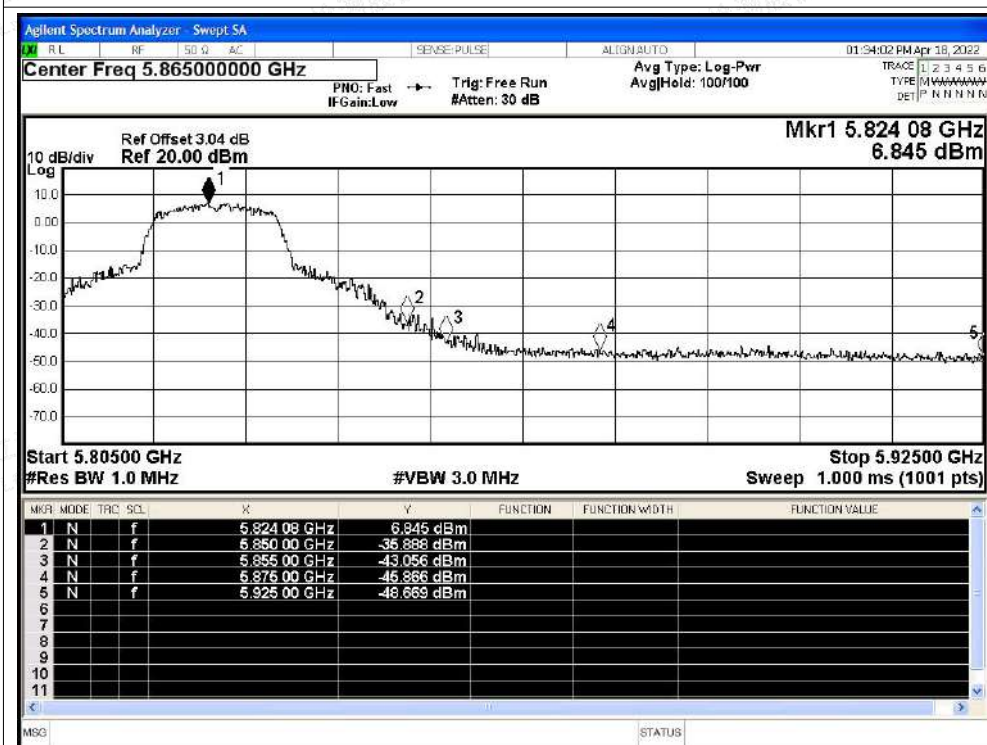
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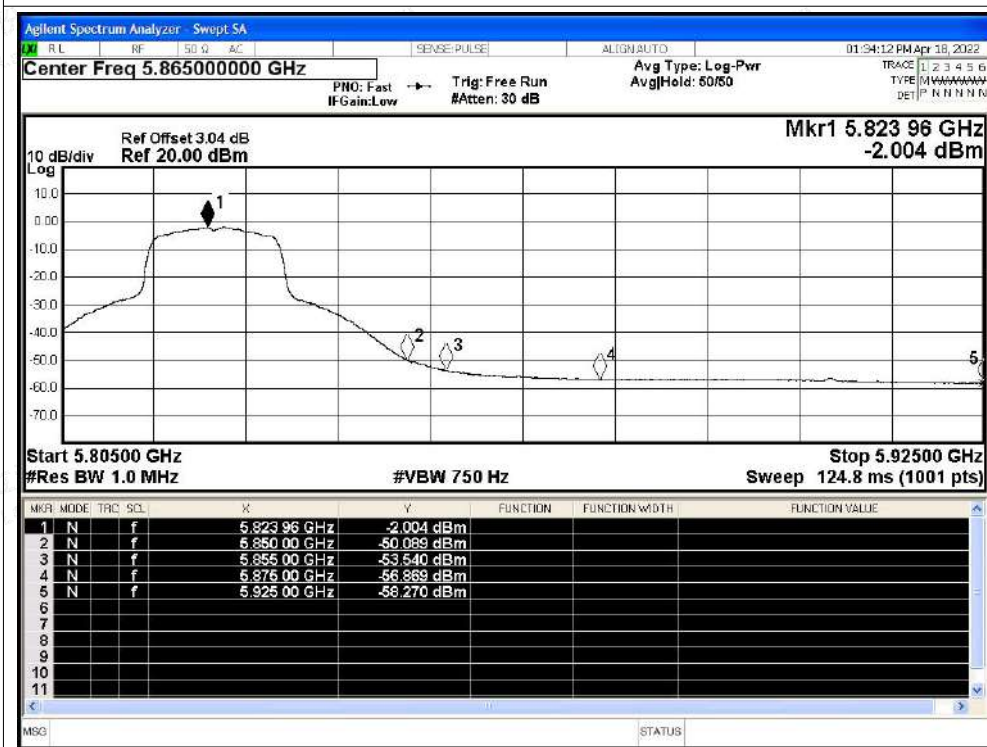
Scan code to check authenticity



Restrict Band NVNT a 5825MHz Ant1 Peak



Restrict Band NVNT a 5825MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

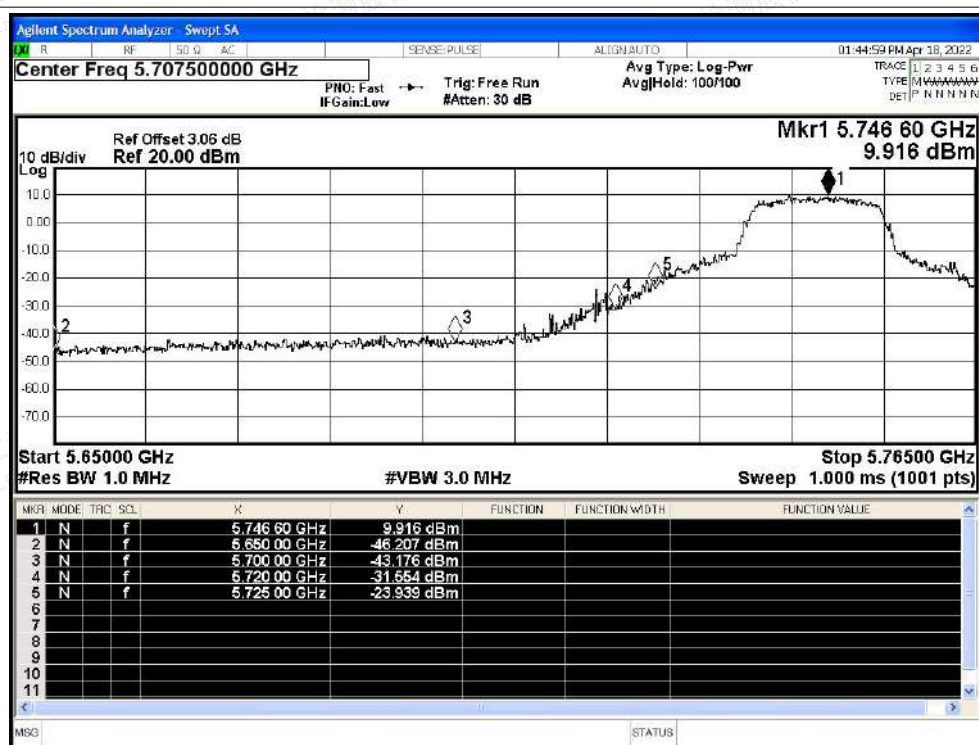
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

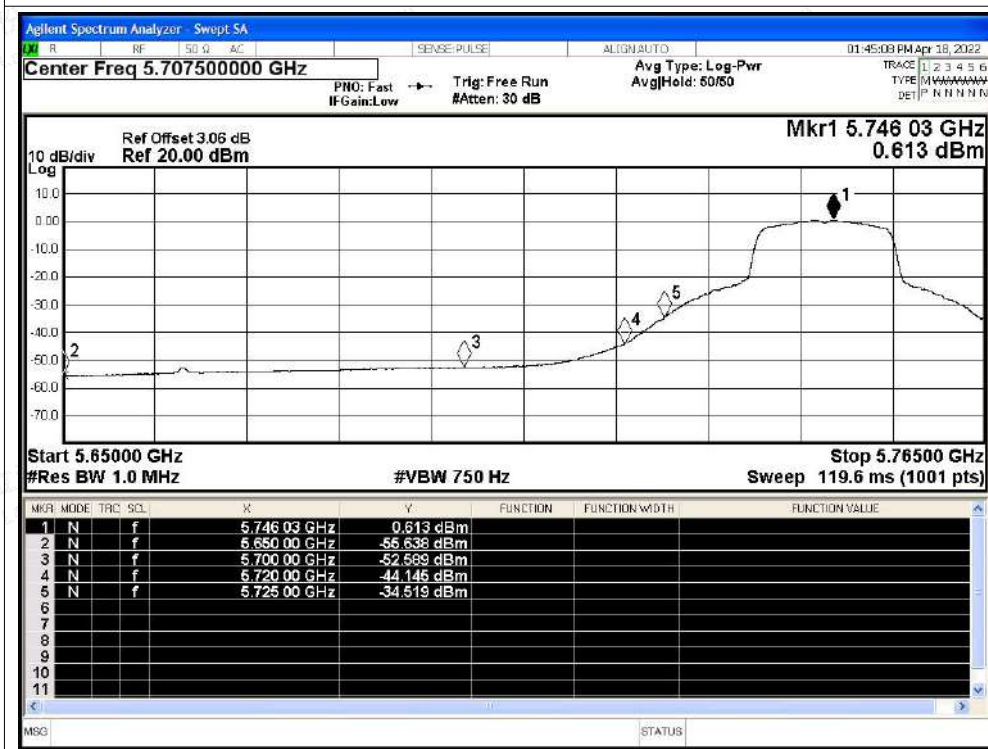
Scan code to check authenticity



Restrict Band NVNT n20 5745MHz Ant1 Peak



Restrict Band NVNT n20 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

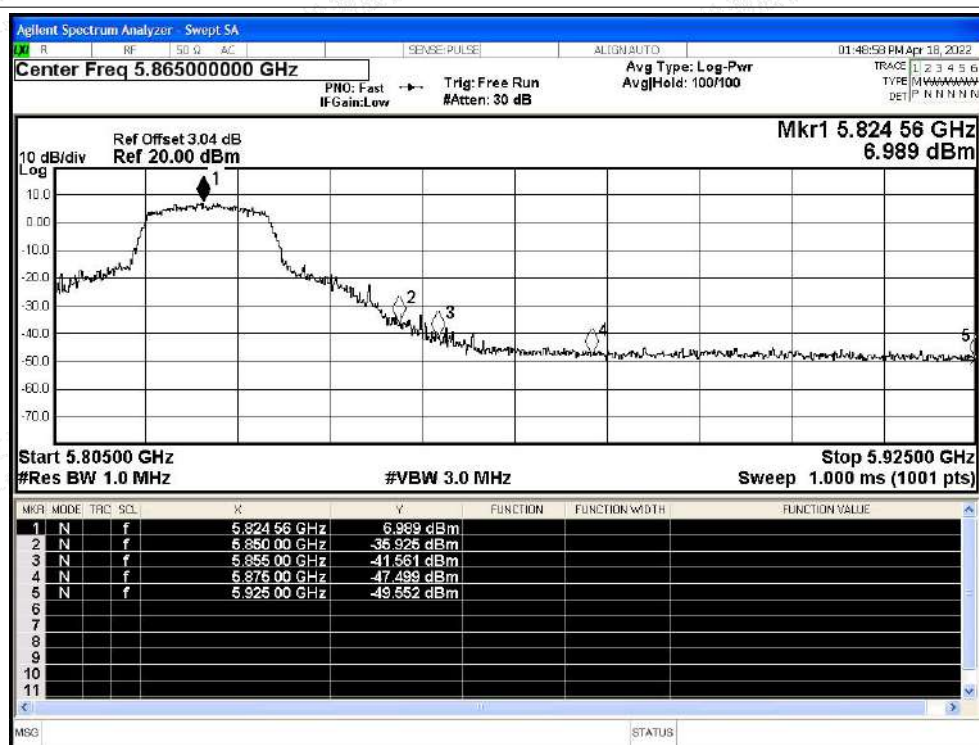
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

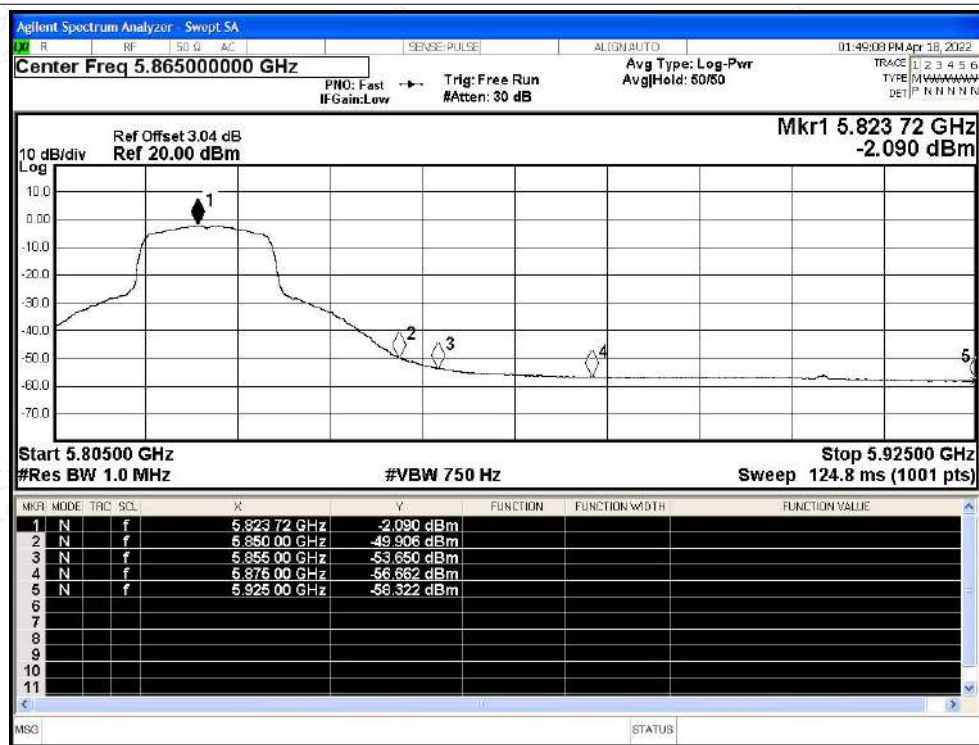
Scan code to check authenticity



Restrict Band NVNT n20 5825MHz Ant1 Peak



Restrict Band NVNT n20 5825MHz Ant1 Average



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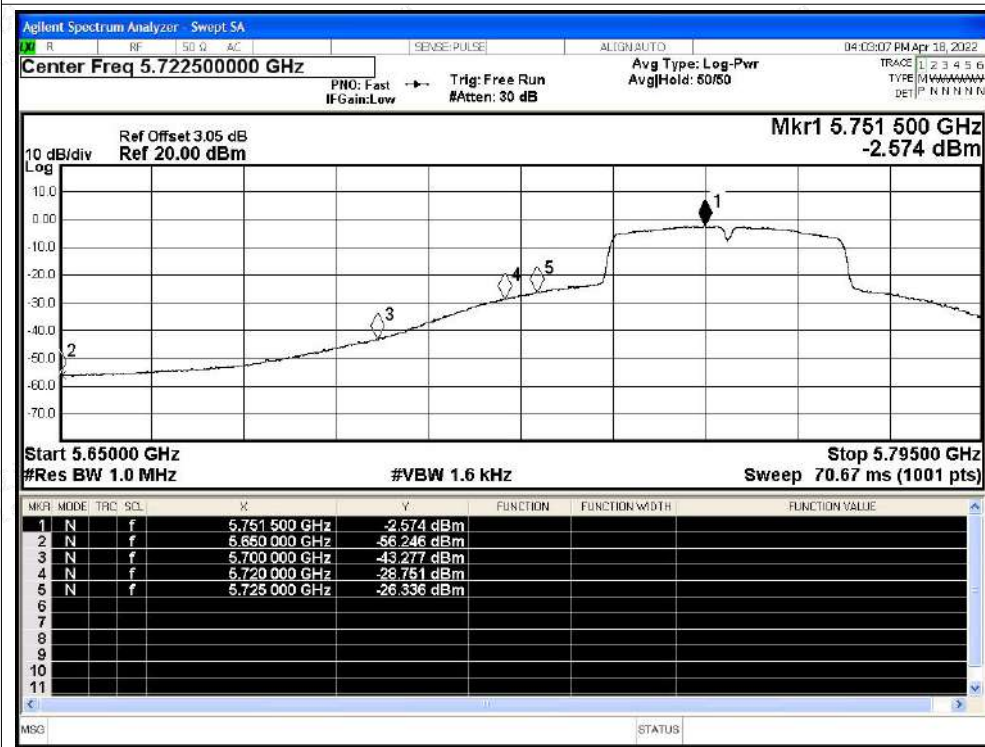
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Restrict Band NVNT n40 5755MHz Ant1 Peak



Restrict Band NVNT n40 5755MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

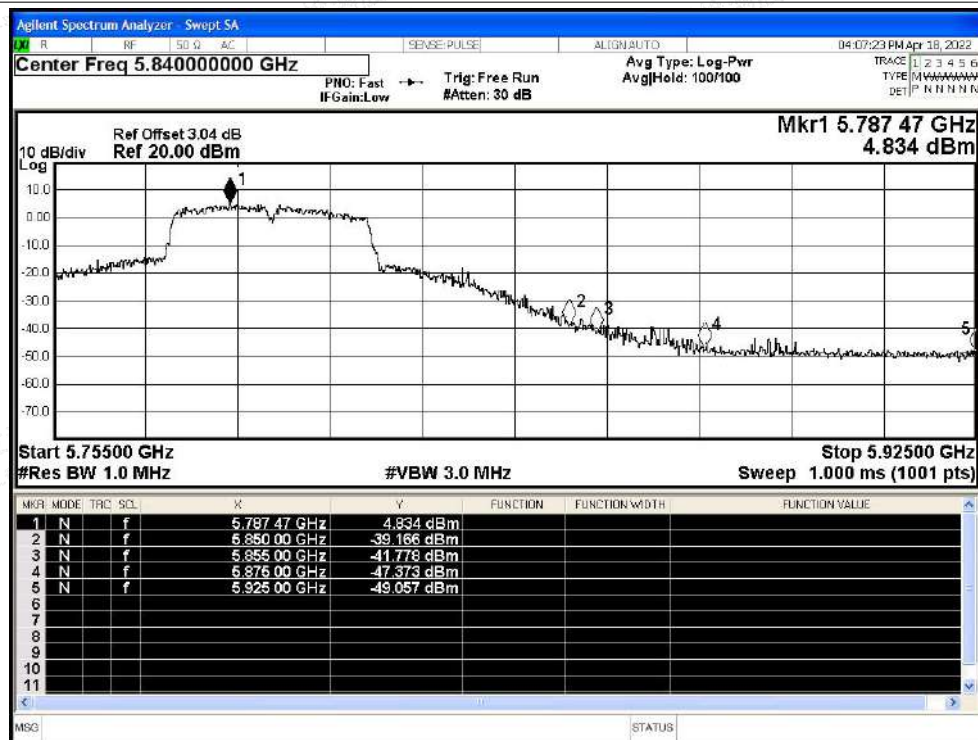
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

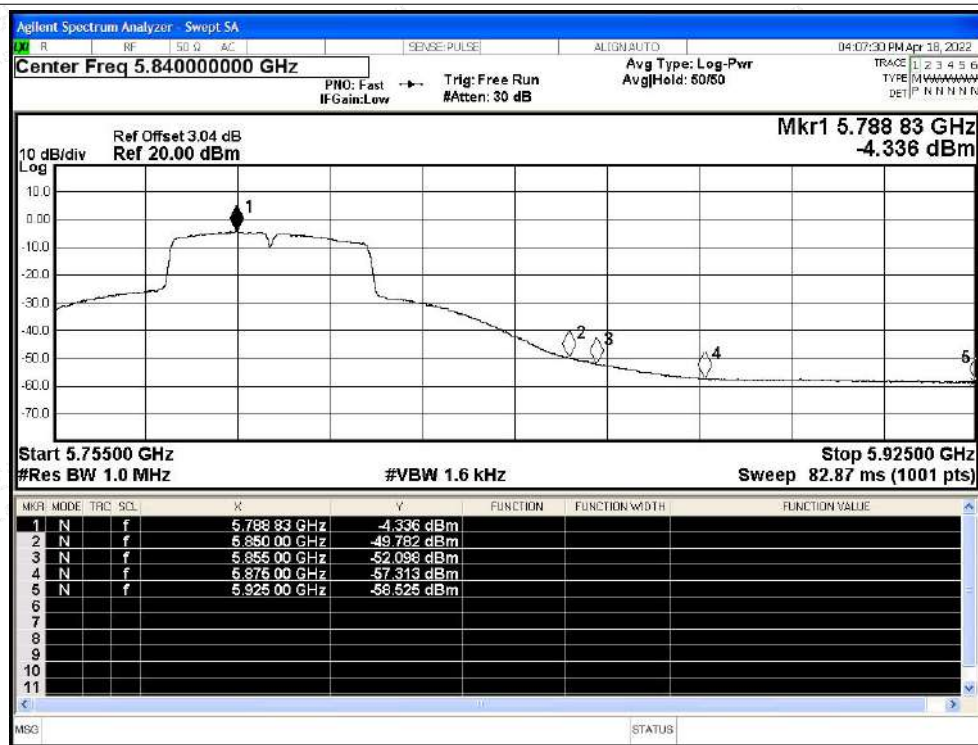
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Restrict Band NVNT n40 5795MHz Ant1 Peak



Restrict Band NVNT n40 5795MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

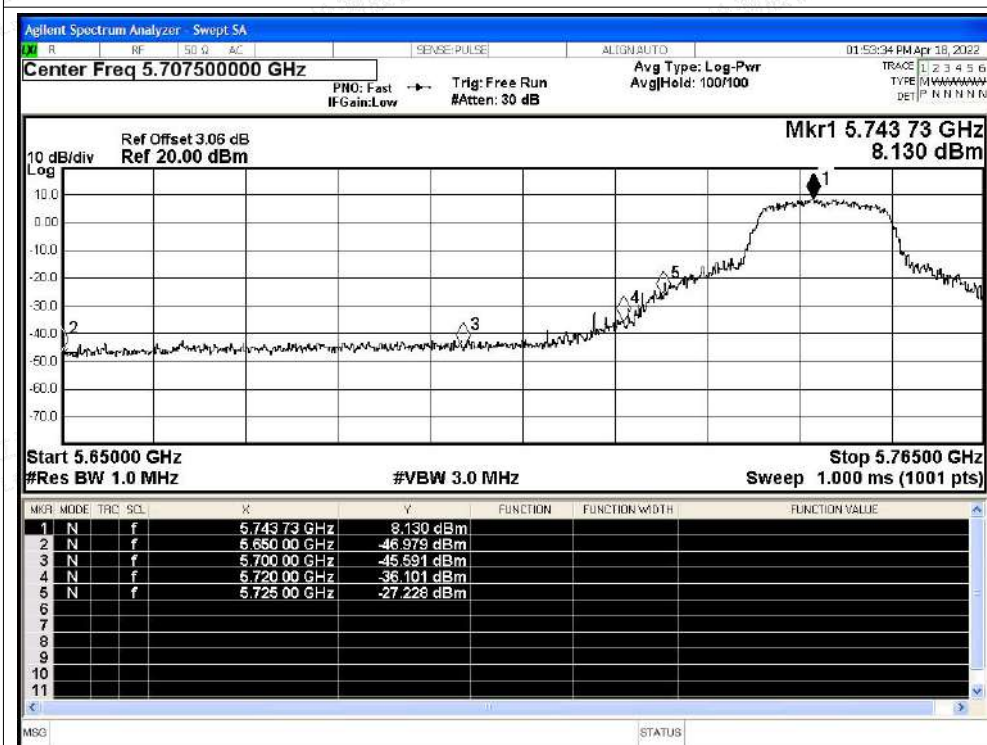
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

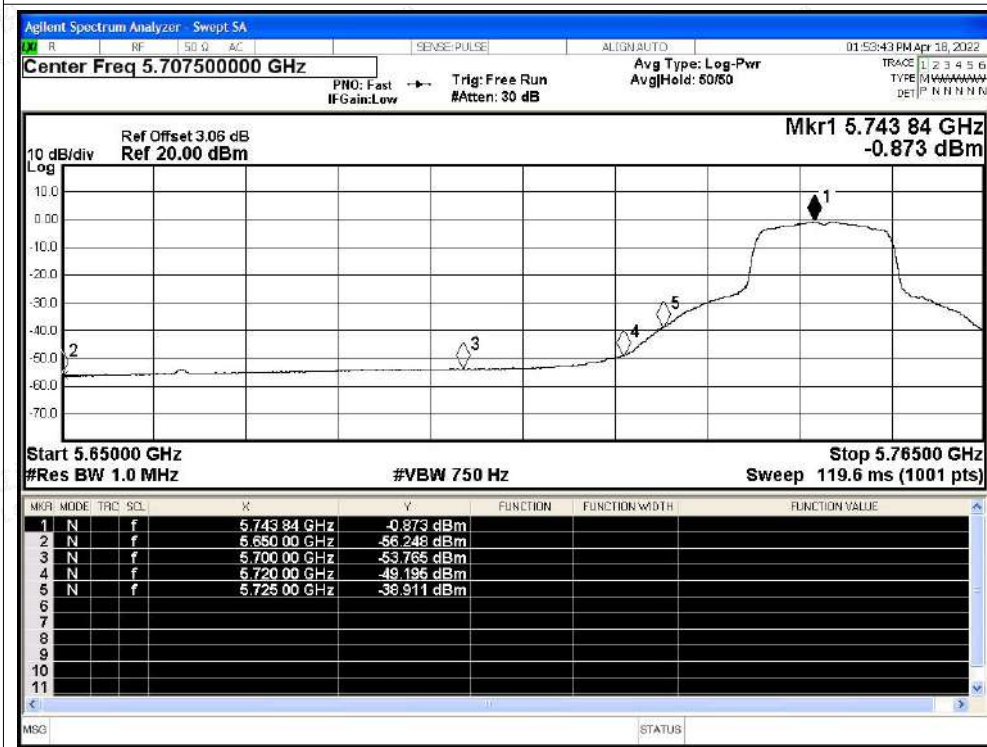
Scan code to check authenticity



Restrict Band NVNT ac20 5745MHz Ant1 Peak



Restrict Band NVNT ac20 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

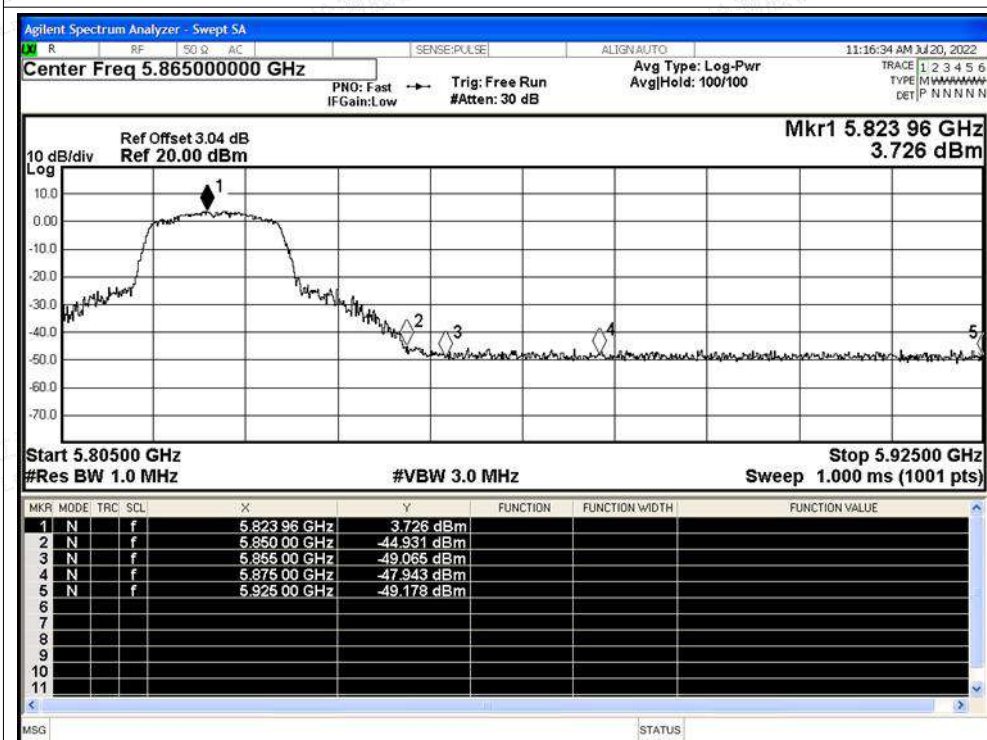
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

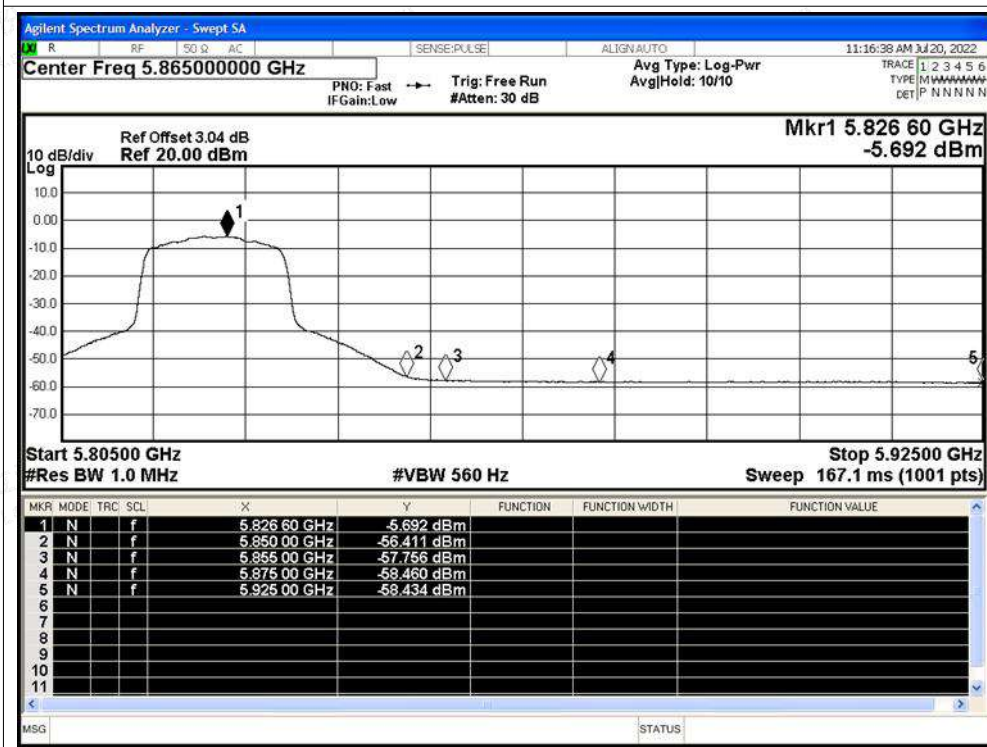
Scan code to check authenticity



Restrict Band NVNT ac20 5825MHz Ant1 Peak



Restrict Band NVNT ac20 5825MHz Ant1 Average



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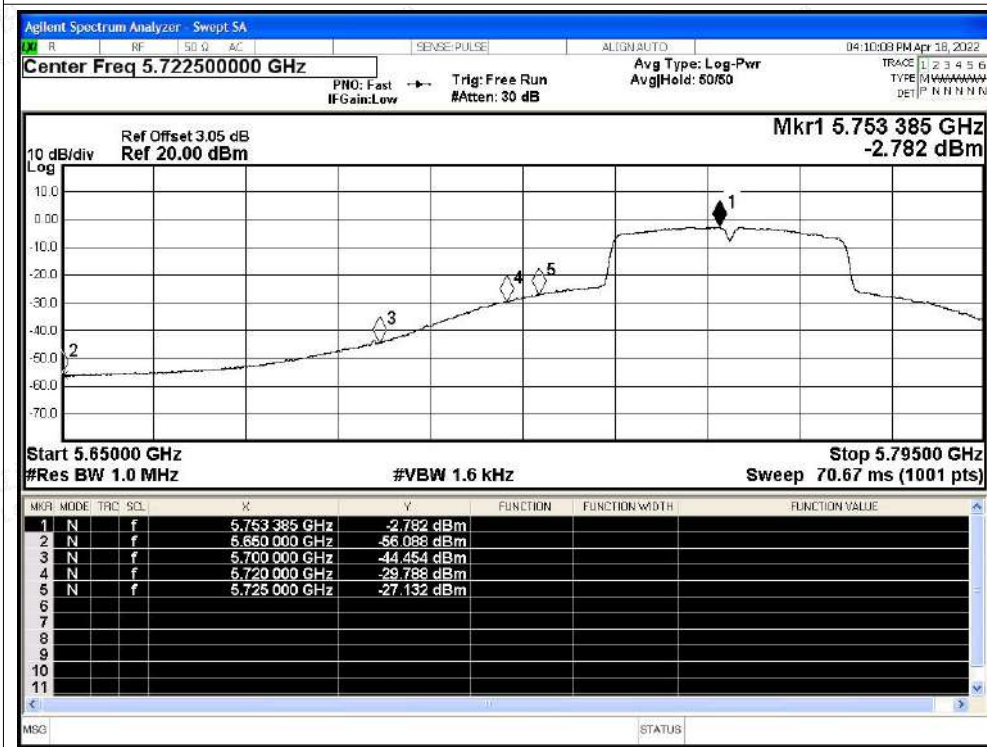
Scan code to check authenticity



Restrict Band NVNT ac40 5755MHz Ant1 Peak



Restrict Band NVNT ac40 5755MHz Ant1 Average



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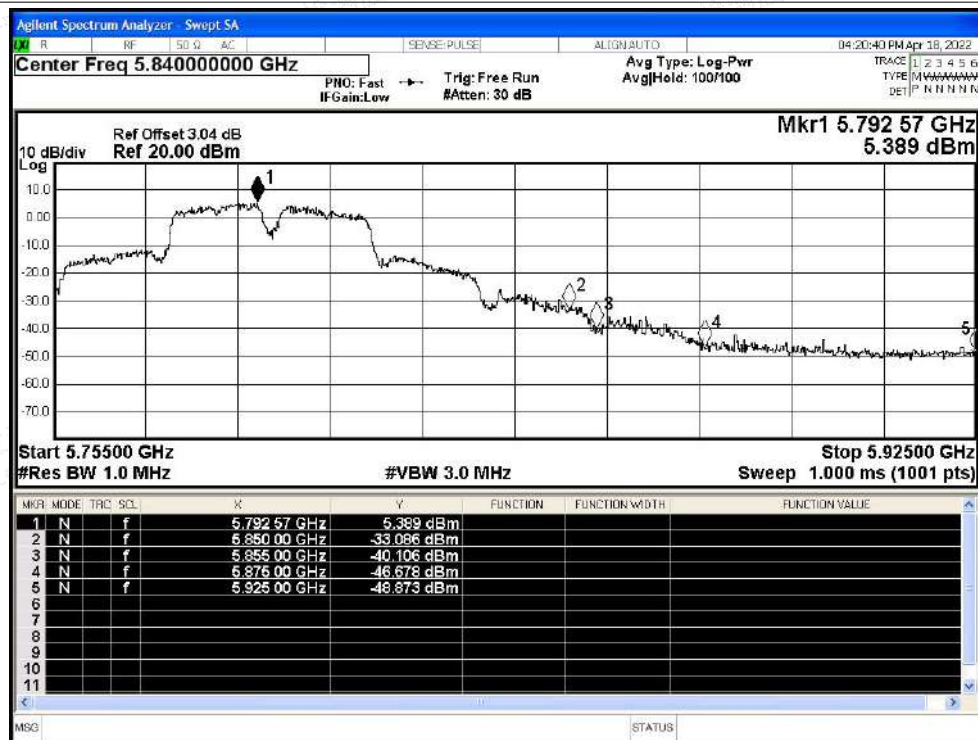
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

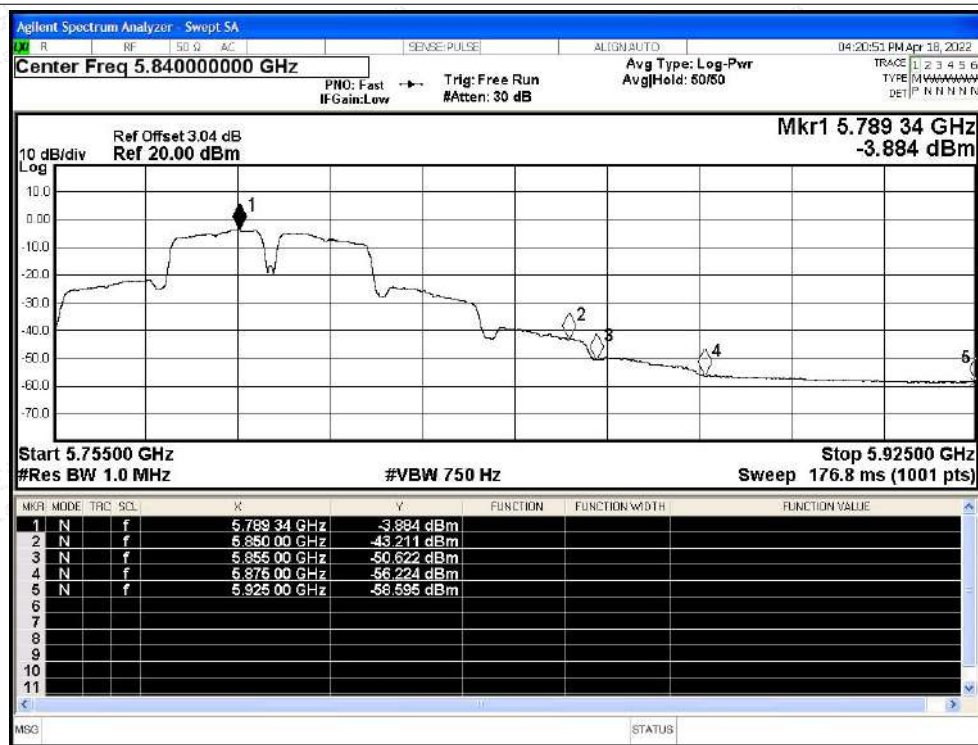
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Restrict Band NVNT ac40 5795MHz Ant1 Peak



Restrict Band NVNT ac40 5795MHz Ant1 Average



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G.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5745	0	0	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825	0	0	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5785	0	0	25	Pass
NVNT	n20	5825	Ant1	5825	0	0	25	Pass
NVNT	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
NVNT	n40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant1	5785	0	0	25	Pass
NVNT	ac20	5825	Ant1	5825.02	20000	3.43	25	Pass
NVNT	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
NVNT	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass



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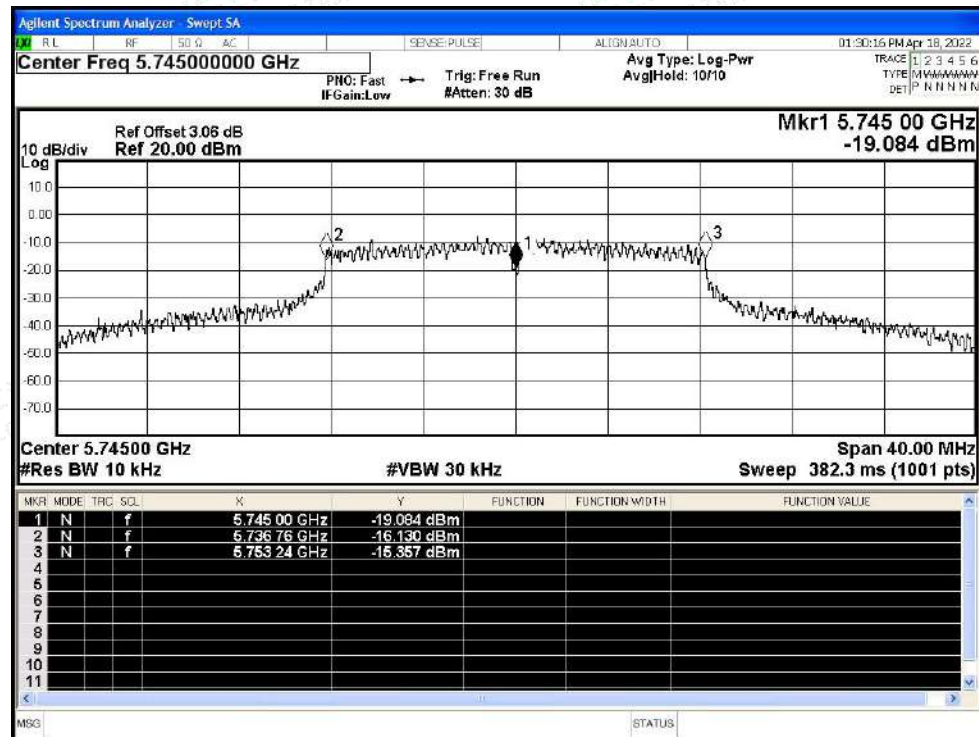
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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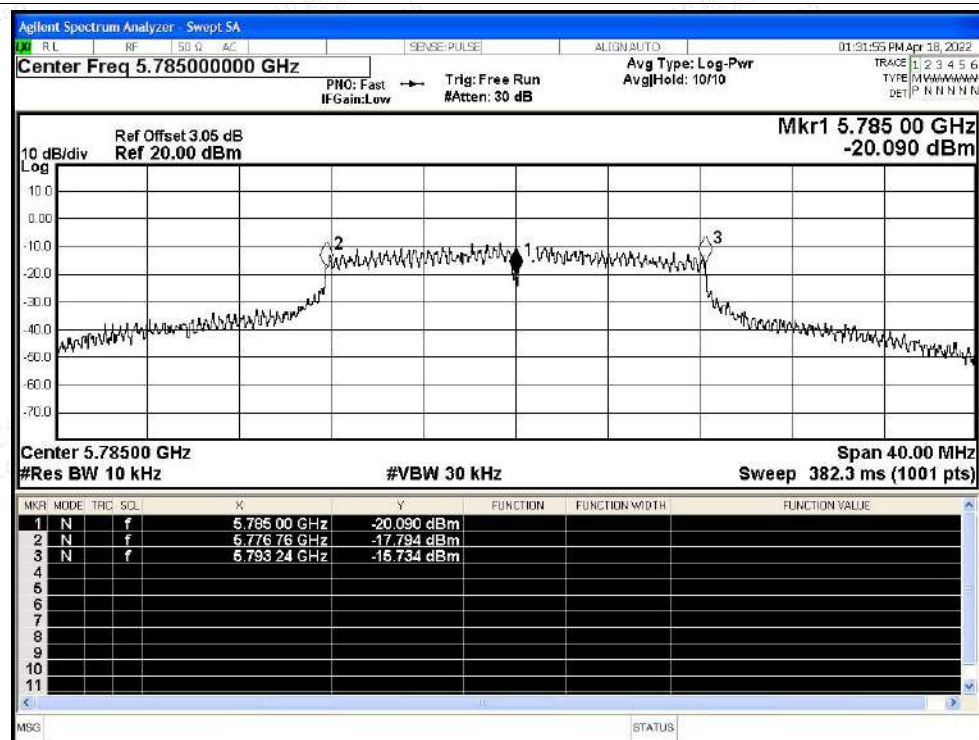


Test Graphs

Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability NVNT a 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

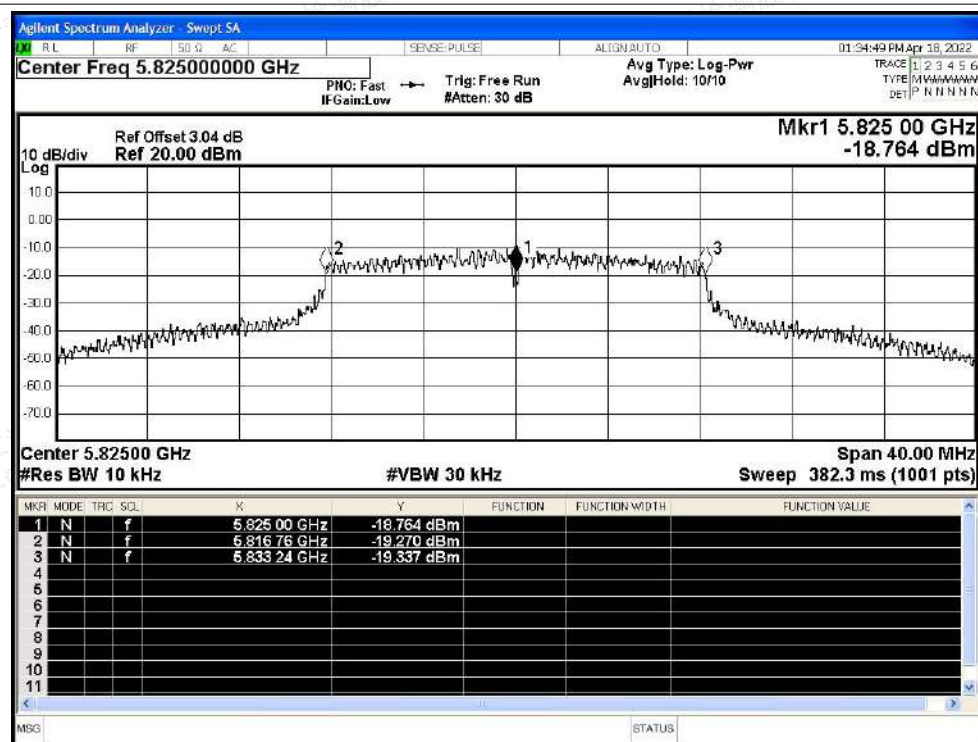
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

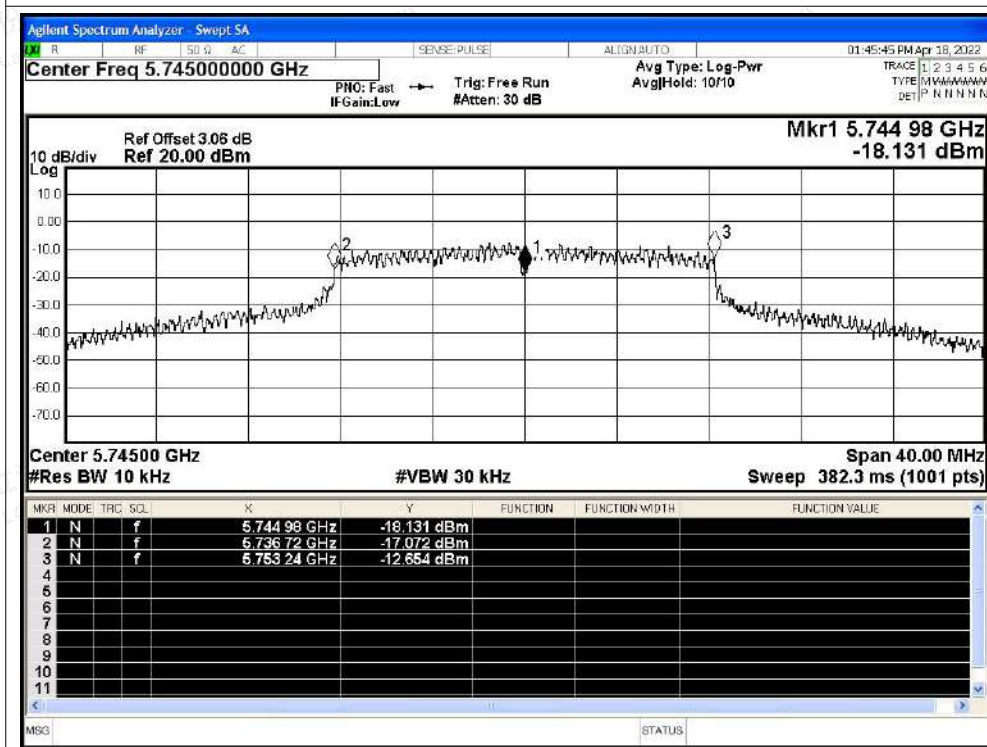
Scan code to check authenticity



Freq. Stability NVNT a 5825MHz Ant1



Freq. Stability NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

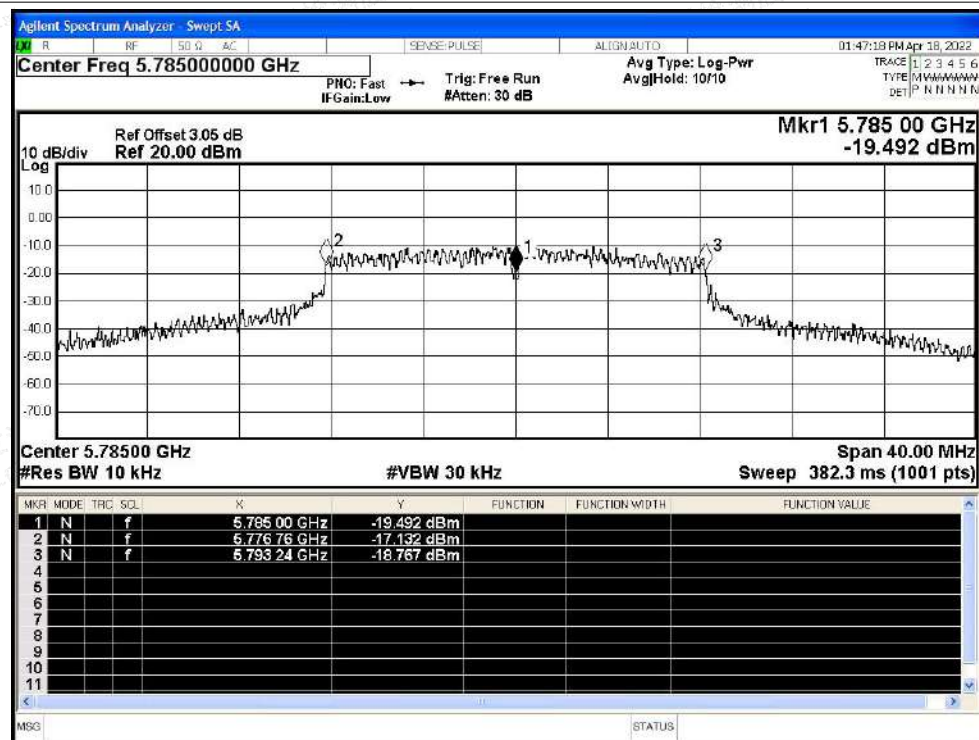
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

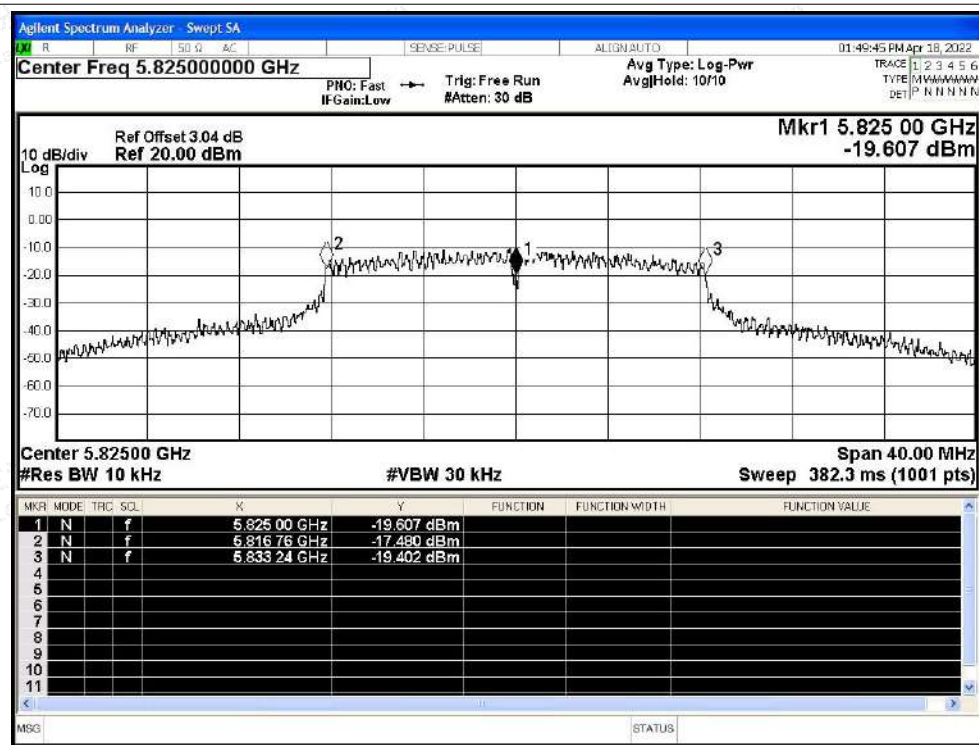
Scan code to check authenticity



Freq. Stability NVNT n20 5785MHz Ant1



Freq. Stability NVNT n20 5825MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

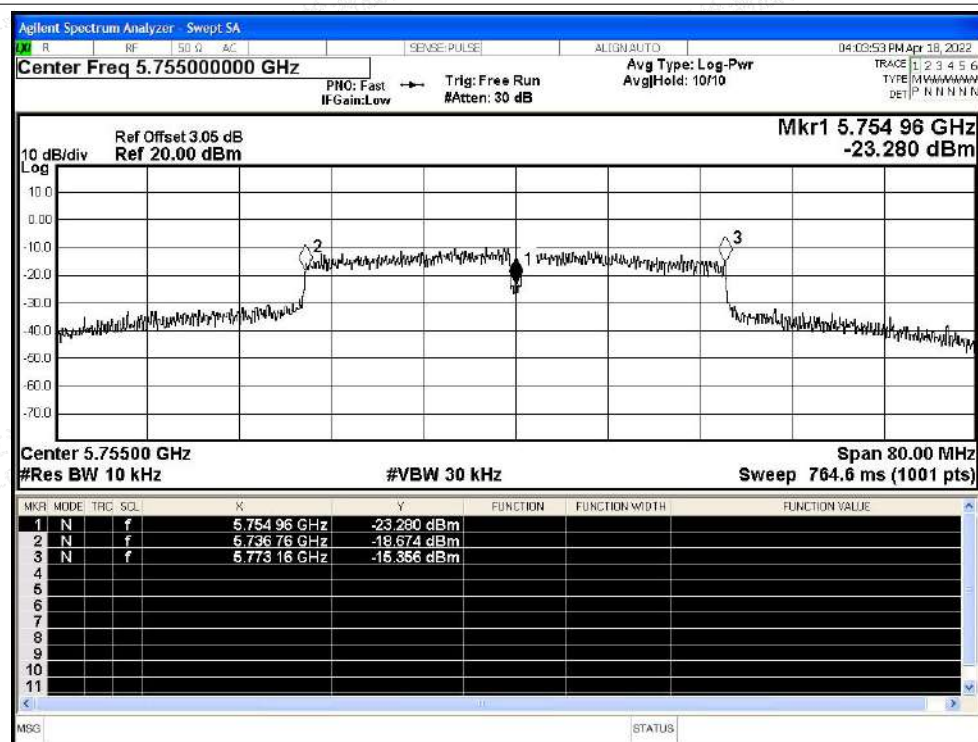
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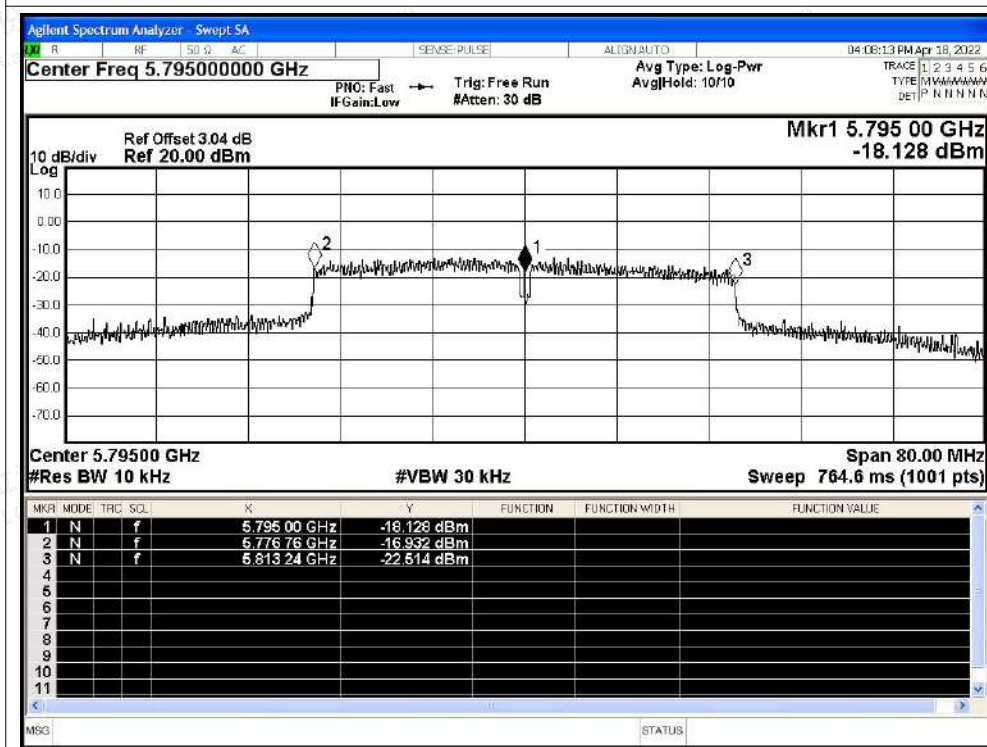
Scan code to check authenticity



Freq. Stability NVNT n40 5755MHz Ant1



Freq. Stability NVNT n40 5795MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

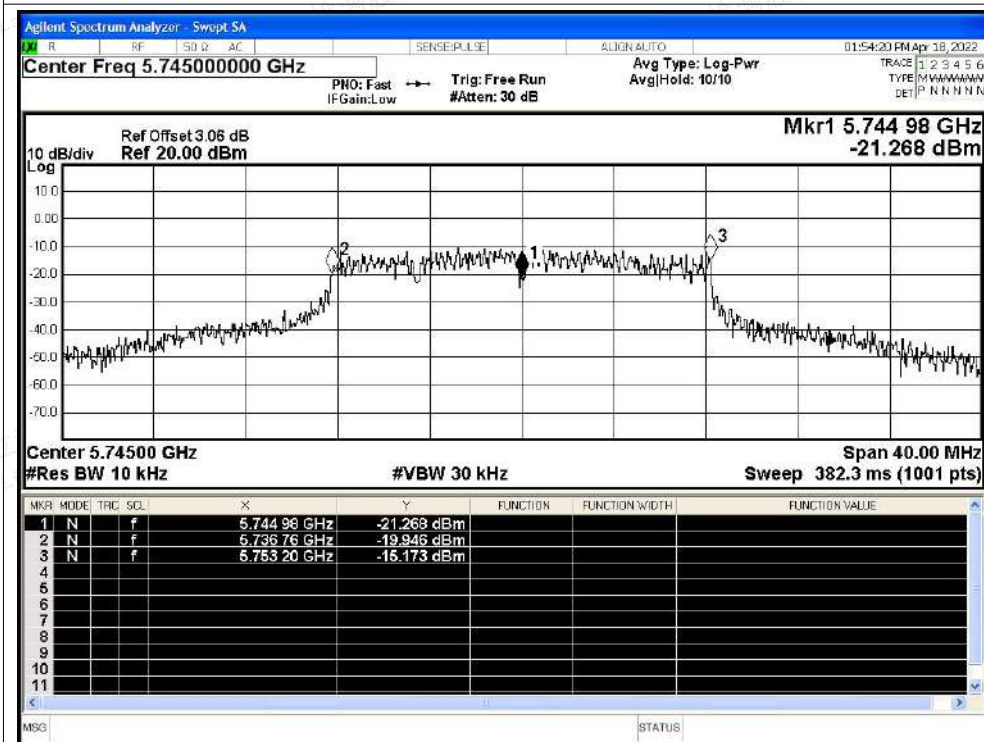
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

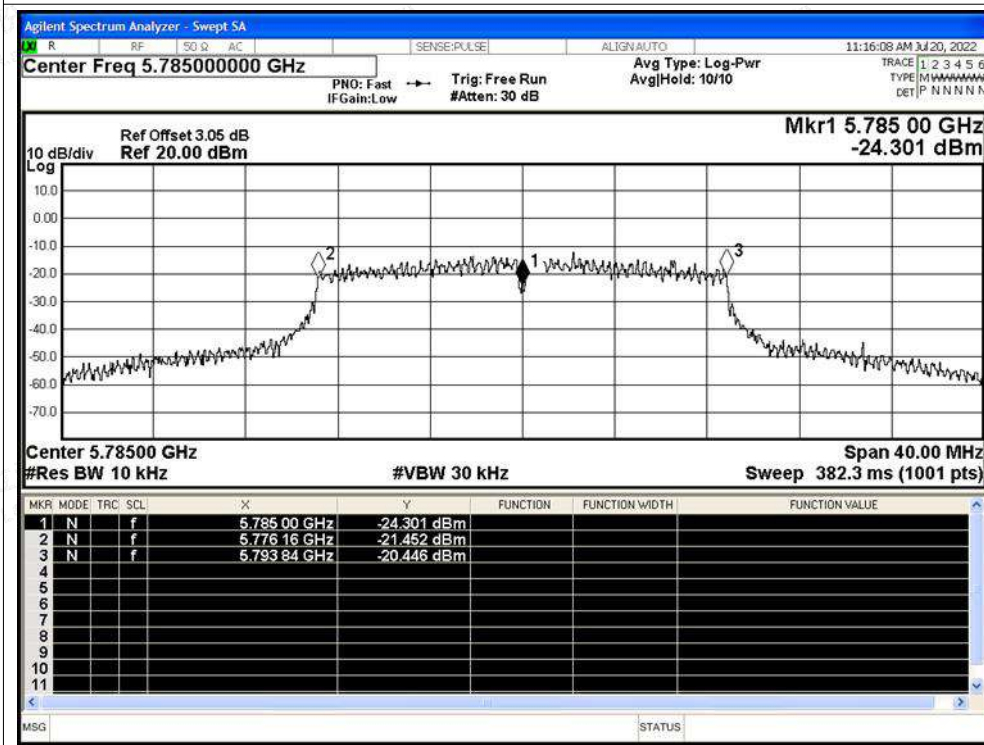
Scan code to check authenticity



Freq. Stability NVNT ac20 5745MHz Ant1



Freq. Stability NVNT ac20 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

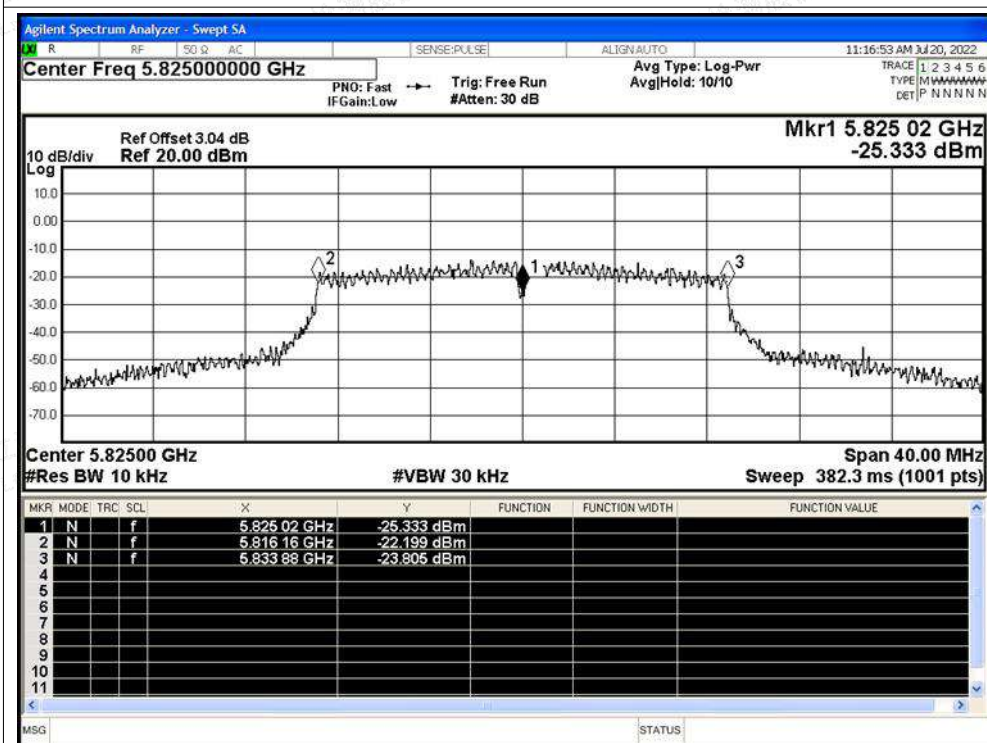
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

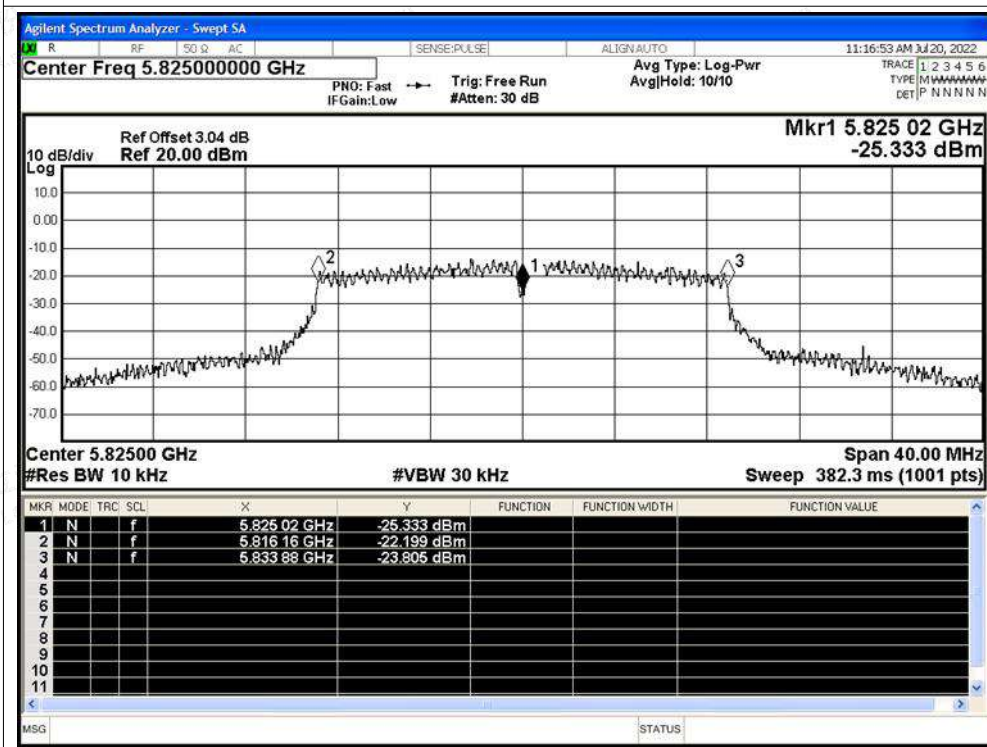
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Freq. Stability NVNT ac20 5825MHz Ant1



Freq. Stability NVNT ac40 5755MHz Ant1

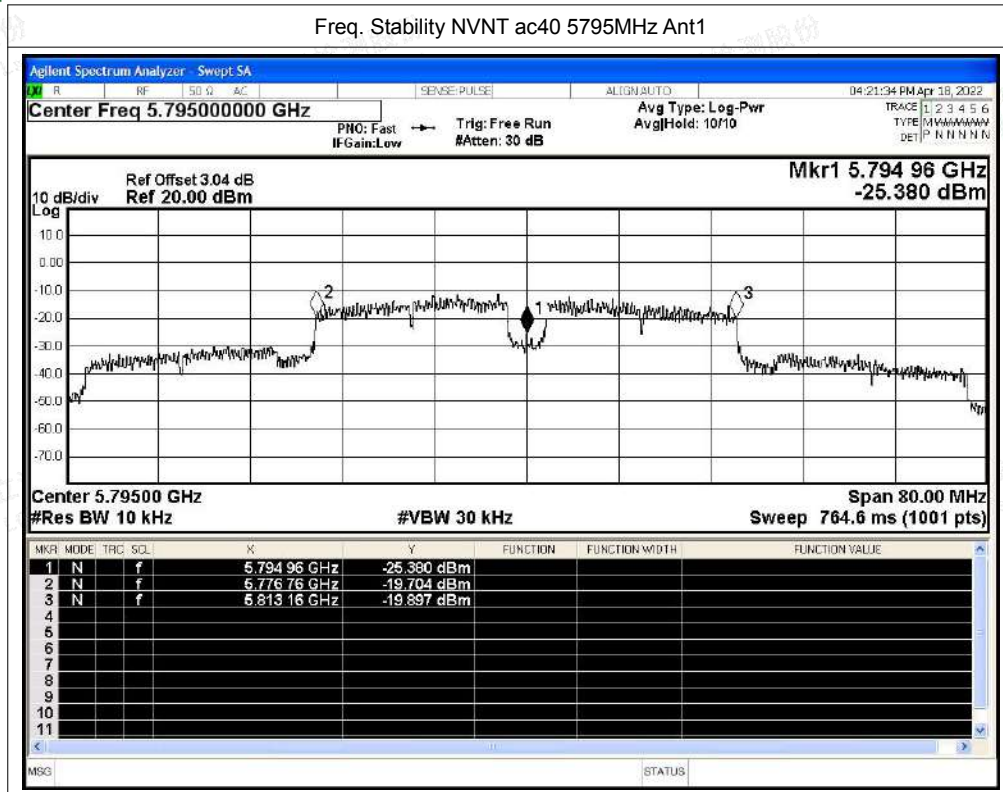


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G.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.62	0.1	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	97.55	0.11	0.72
NVNT	n20	5785	Ant1	97.55	0.11	0.72
NVNT	n20	5825	Ant1	97.55	0.11	0.72
NVNT	n40	5755	Ant1	95.16	0.22	1.54
NVNT	n40	5795	Ant1	95.16	0.22	1.54
NVNT	ac20	5745	Ant1	97.55	0.11	0.72
NVNT	ac20	5785	Ant1	99.73	0	0.01
NVNT	ac20	5825	Ant1	99.73	0	0.01
NVNT	ac40	5755	Ant1	95.02	0.22	1.54
NVNT	ac40	5795	Ant1	97.69	0.1	0.72



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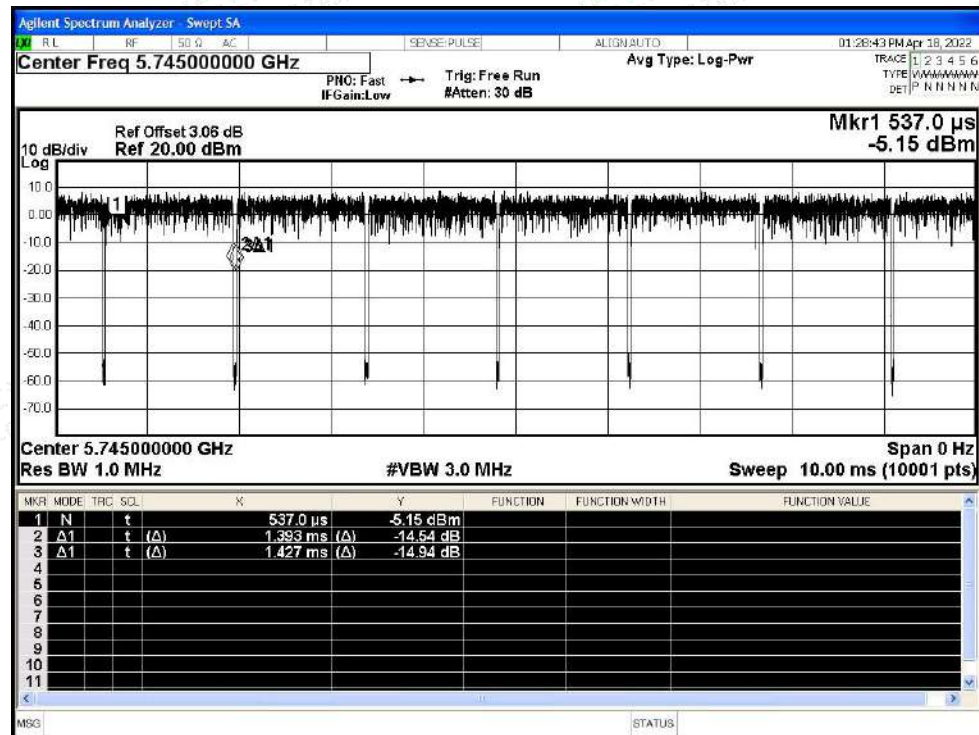
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Scan code to check authenticity

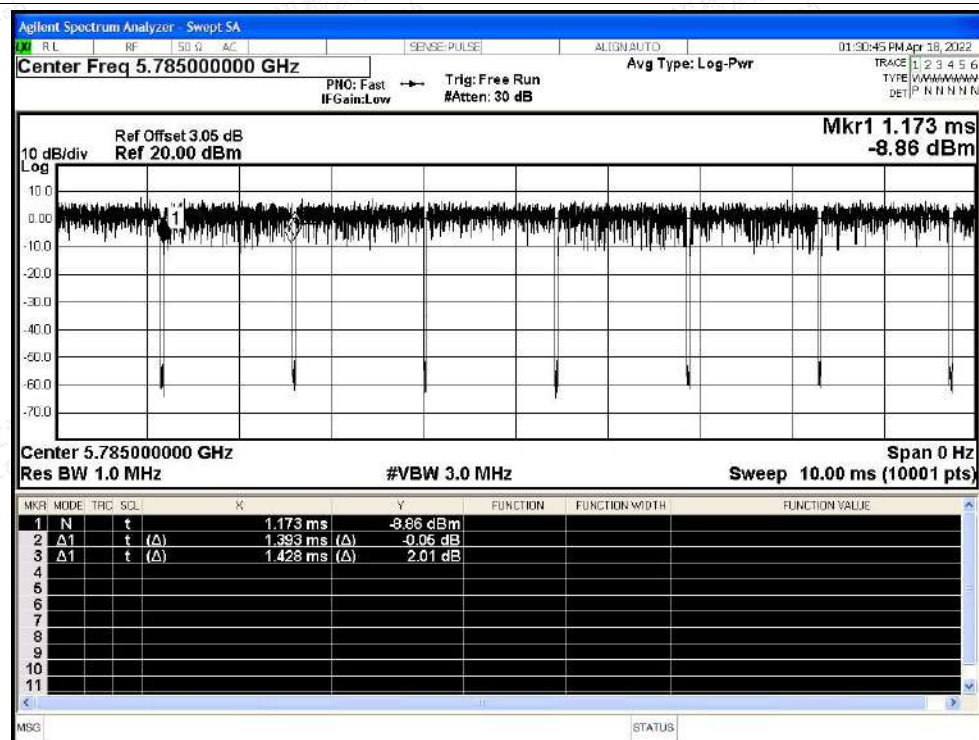


Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

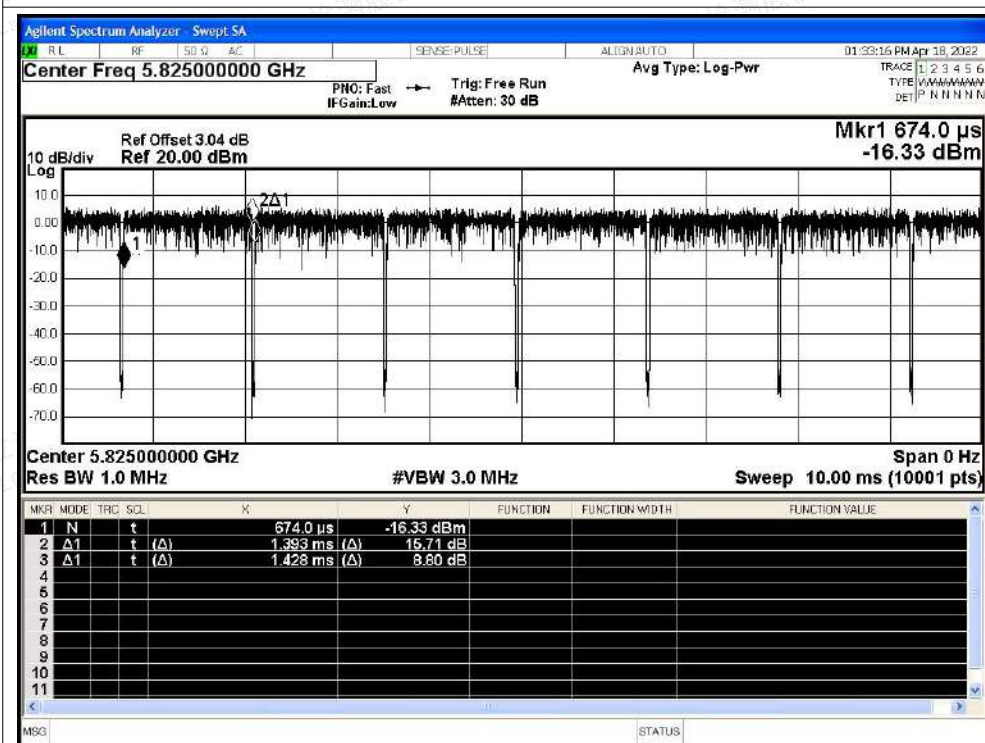
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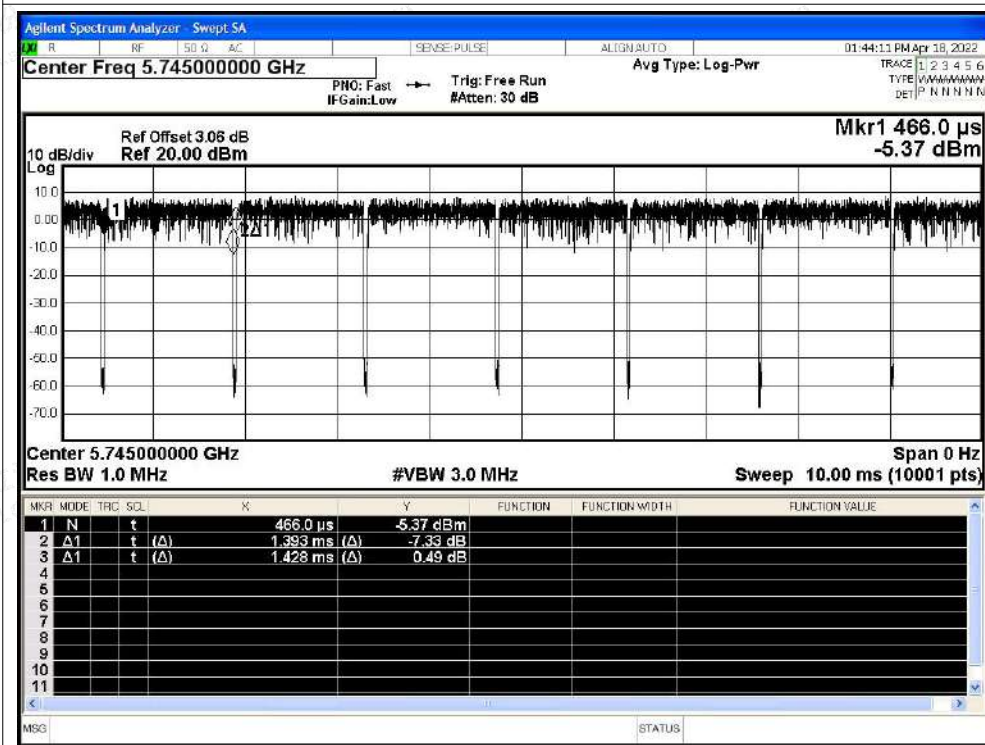
Scan code to check authenticity



Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

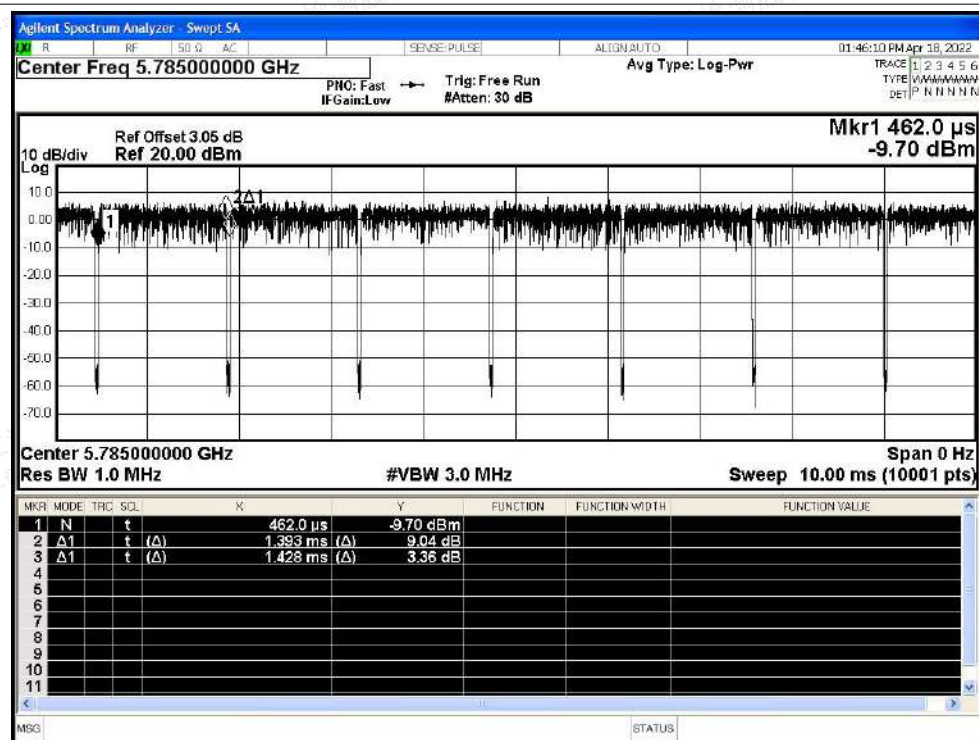
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

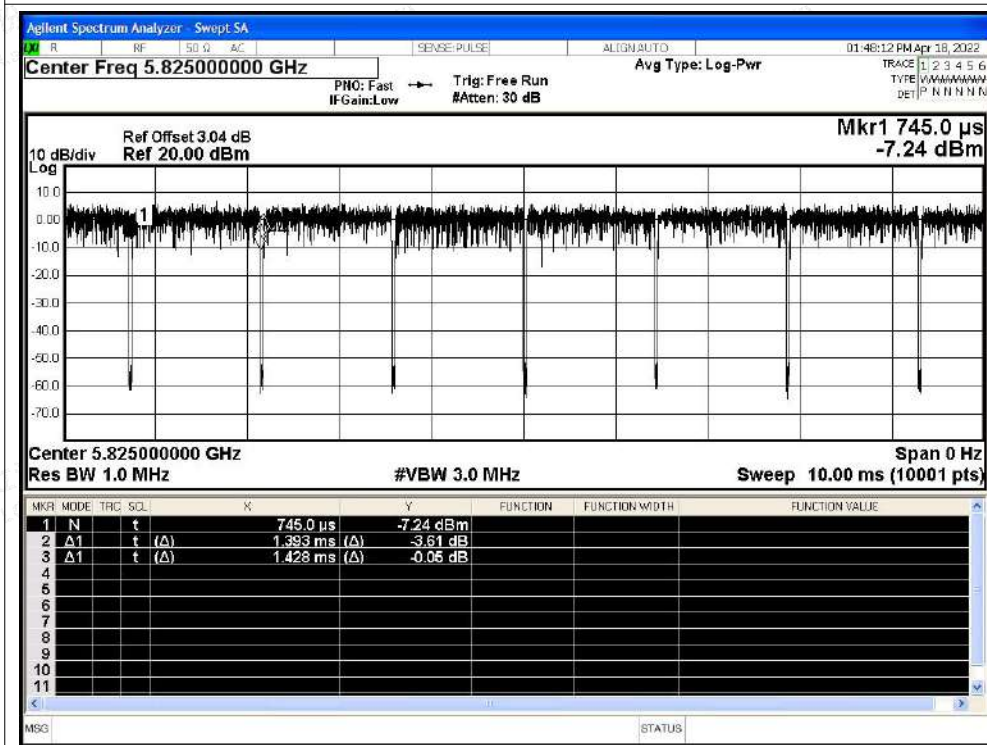
Scan code to check authenticity



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

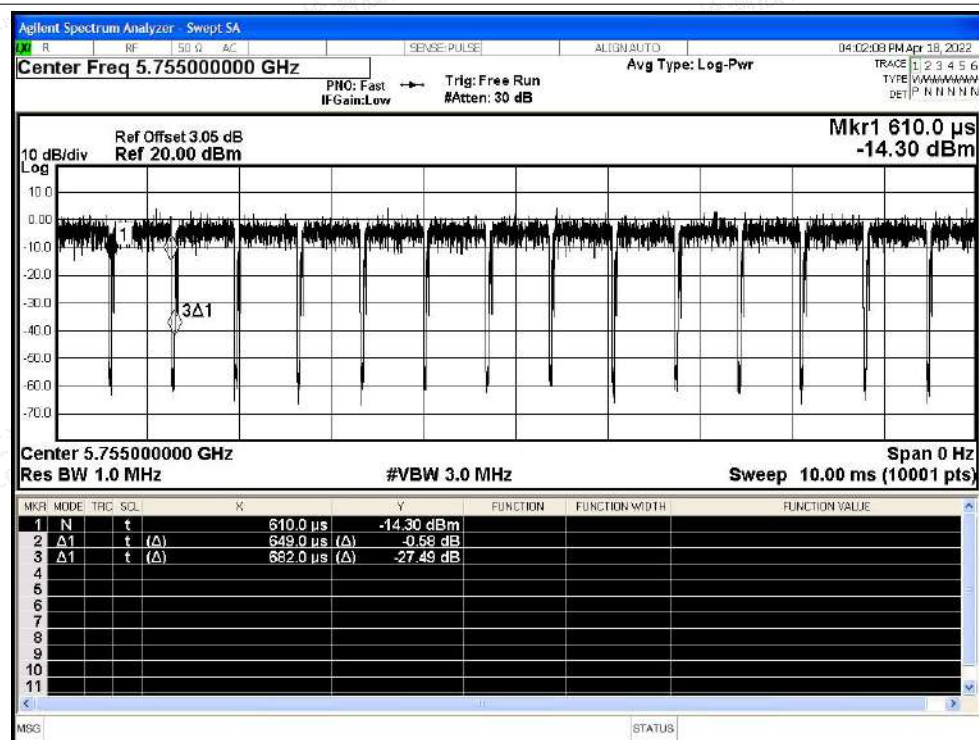
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

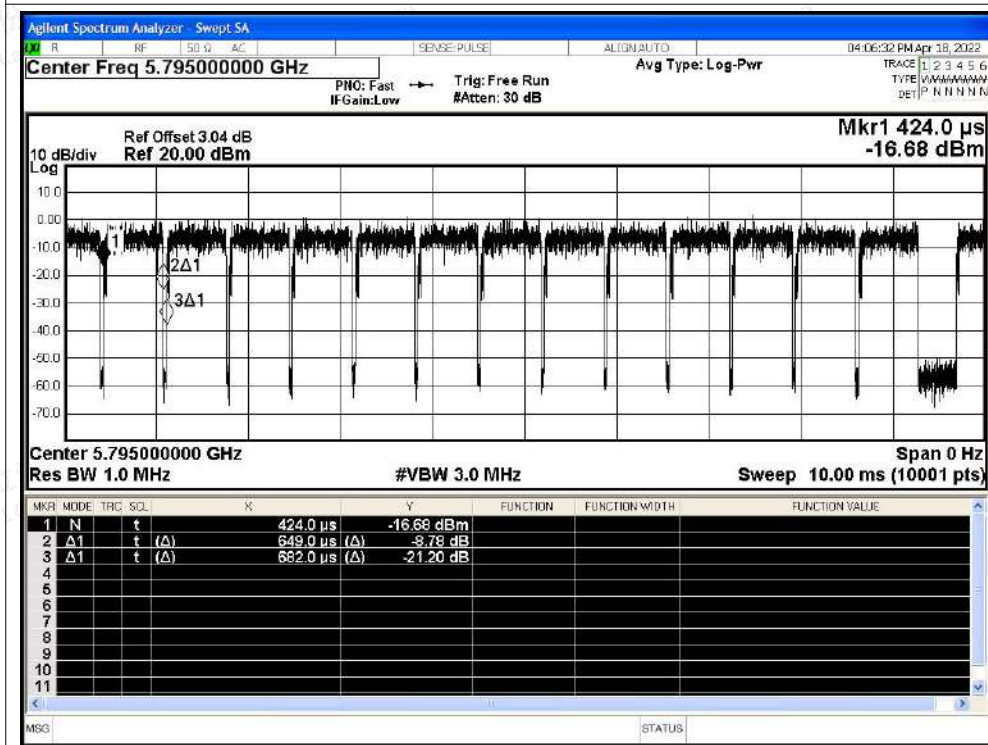
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Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1

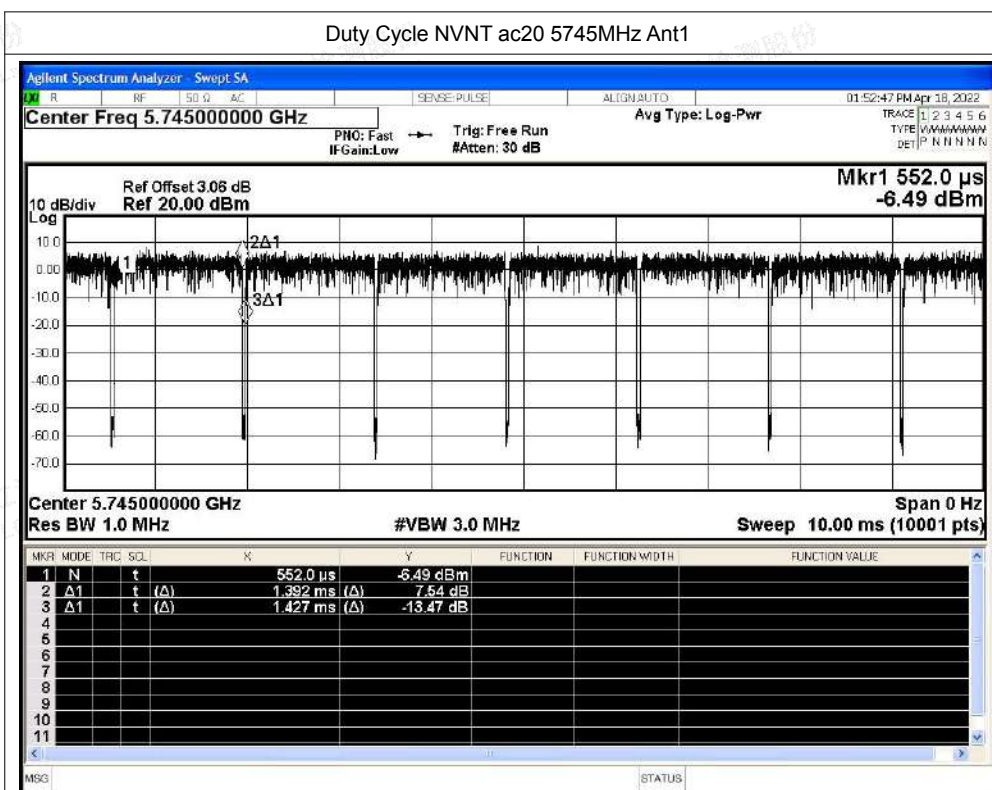


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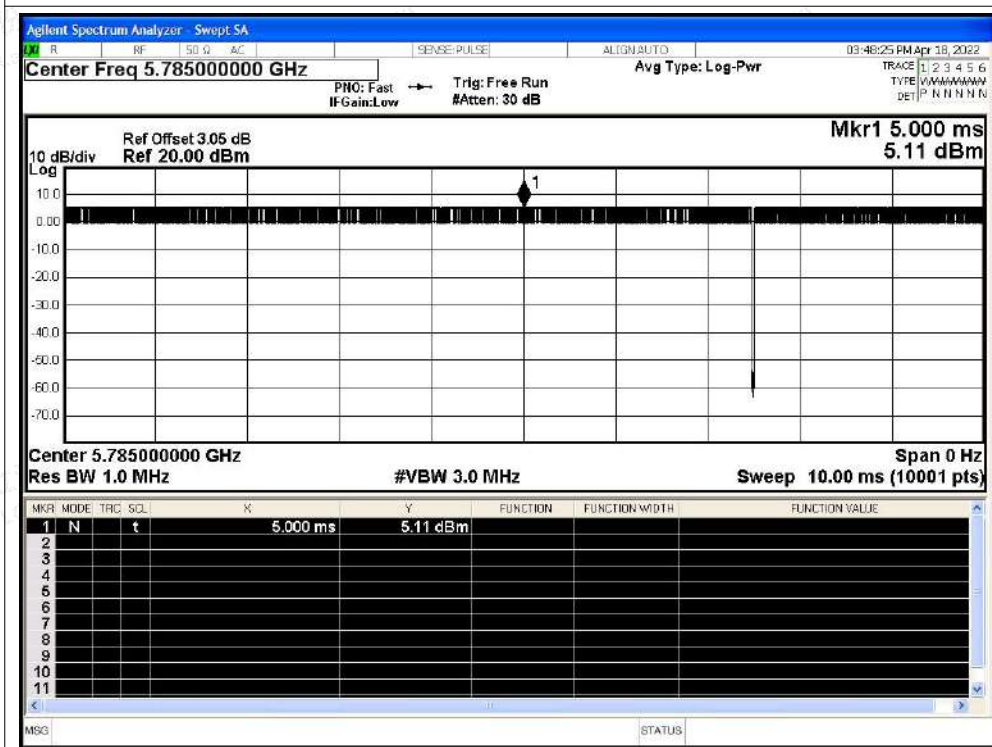
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT ac20 5785MHz Ant1



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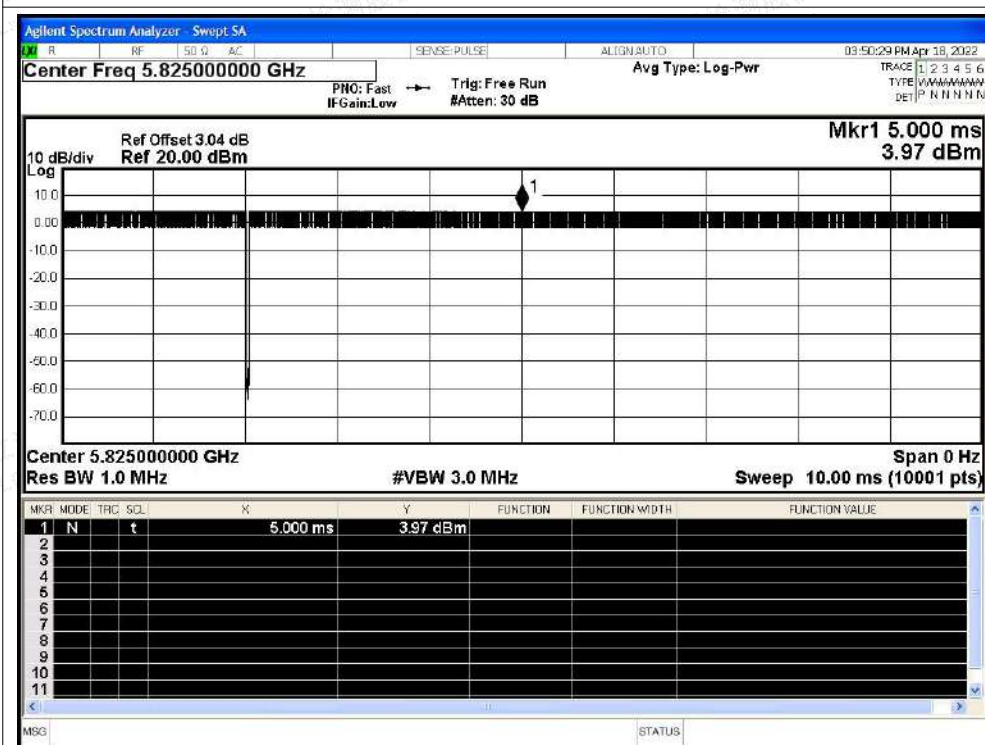
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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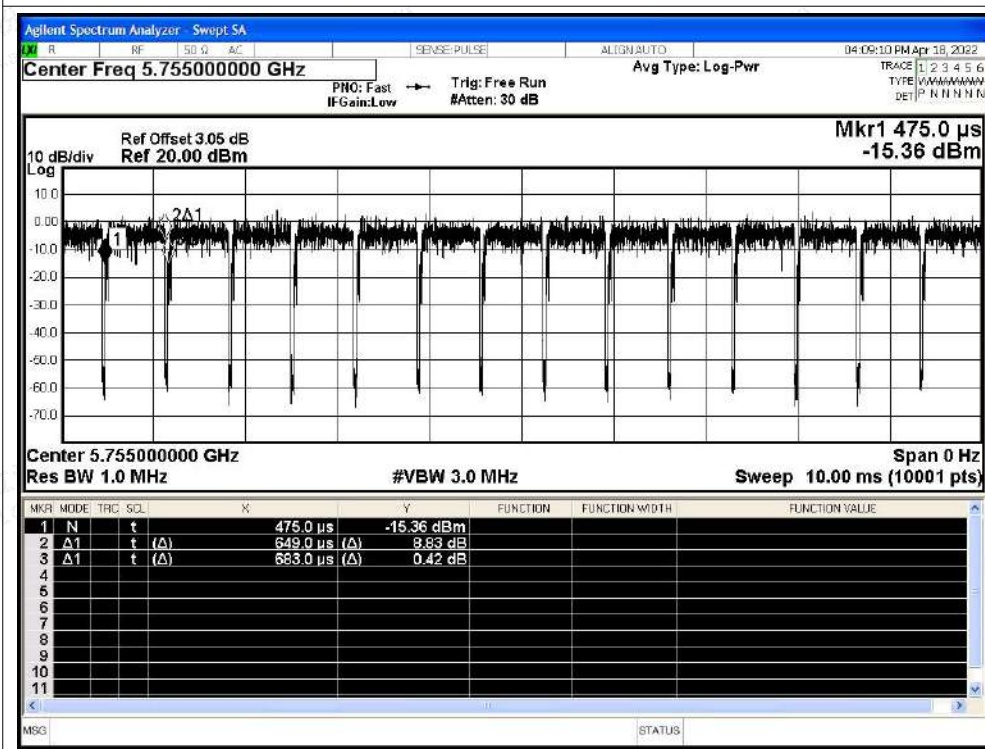
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Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1

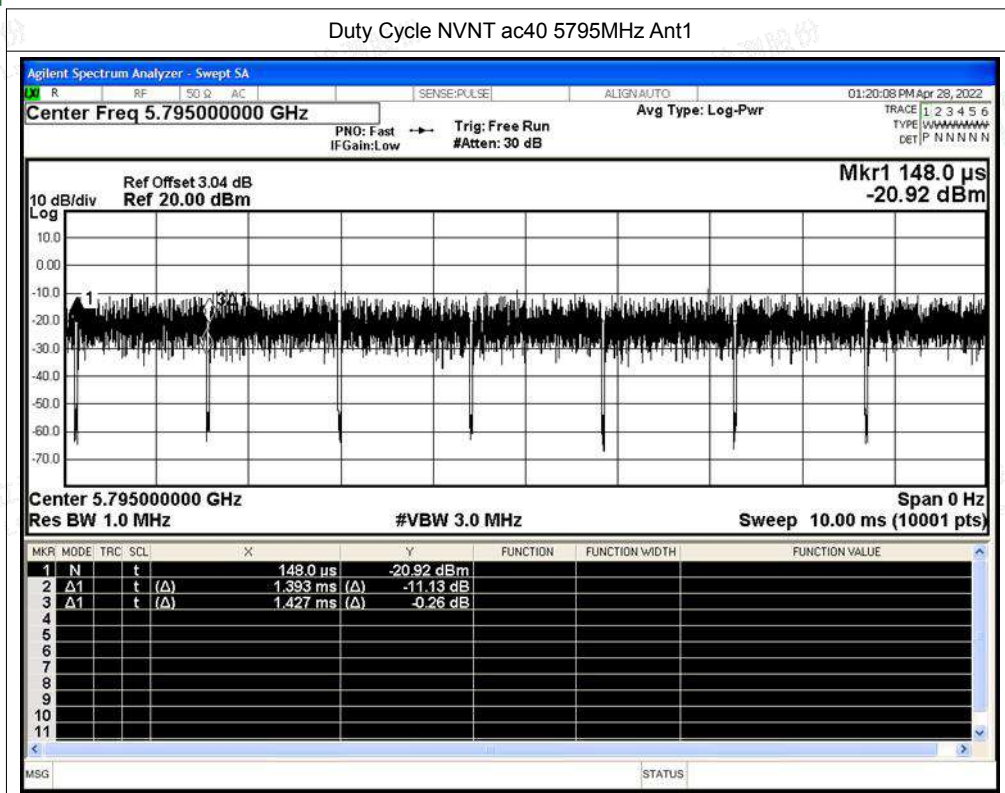


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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