



Appendix A

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: MK32 Handheld Ground Station

Test Model: MK32

Environmental Conditions

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





A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	15.285	≥ 0.5	Pass
NVNT	a	5785	Ant0	16.302	≥ 0.5	Pass
NVNT	a	5825	Ant0	15.104	≥ 0.5	Pass

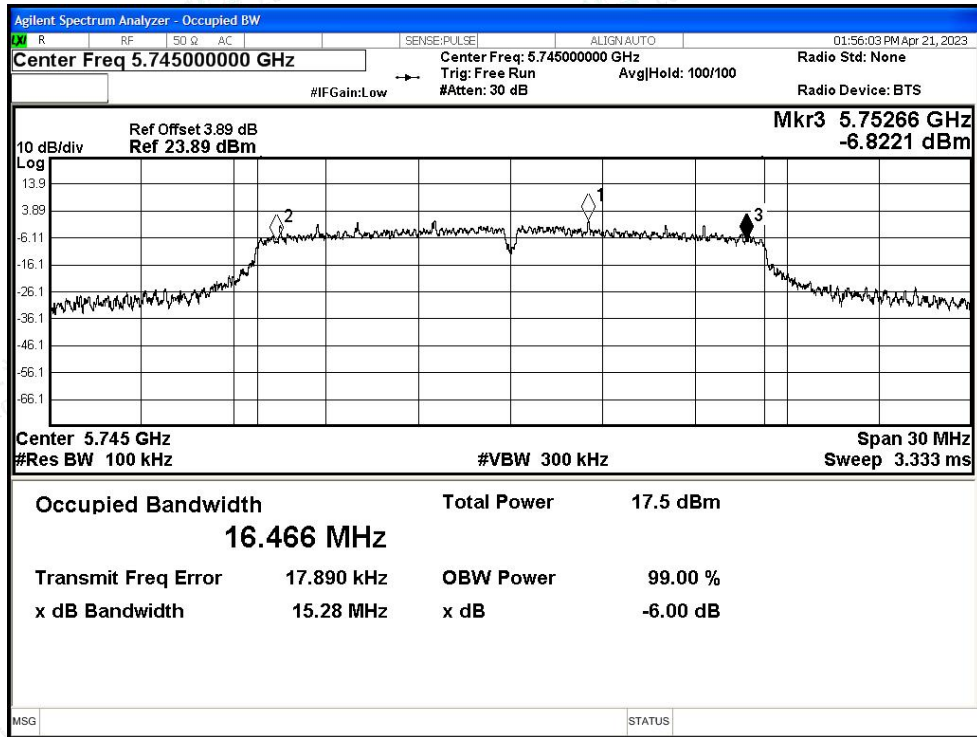


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

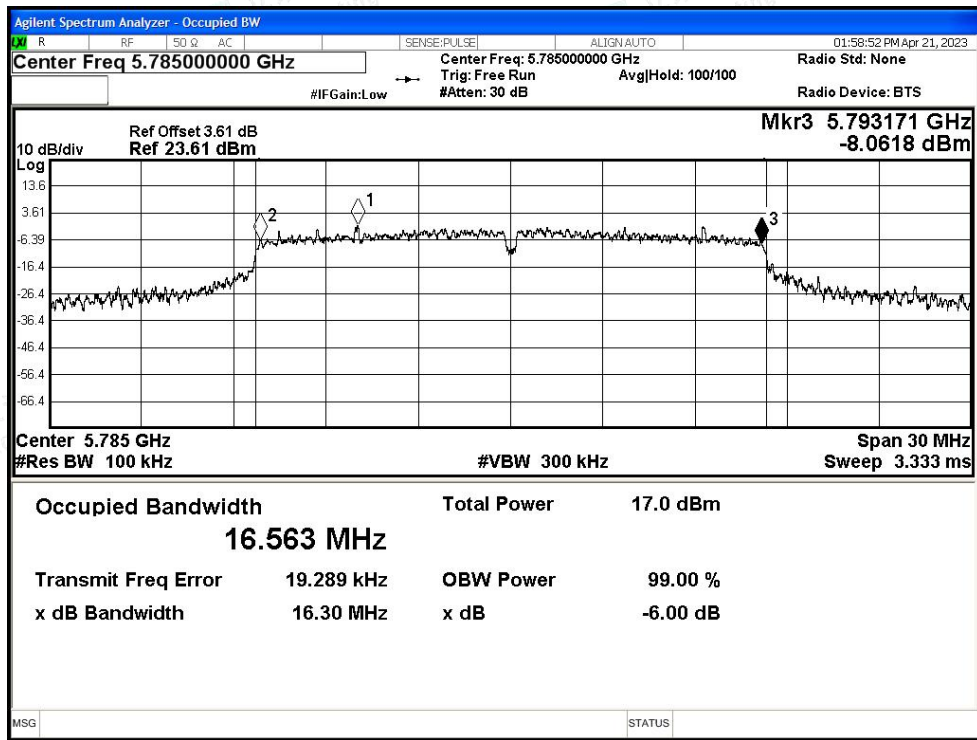


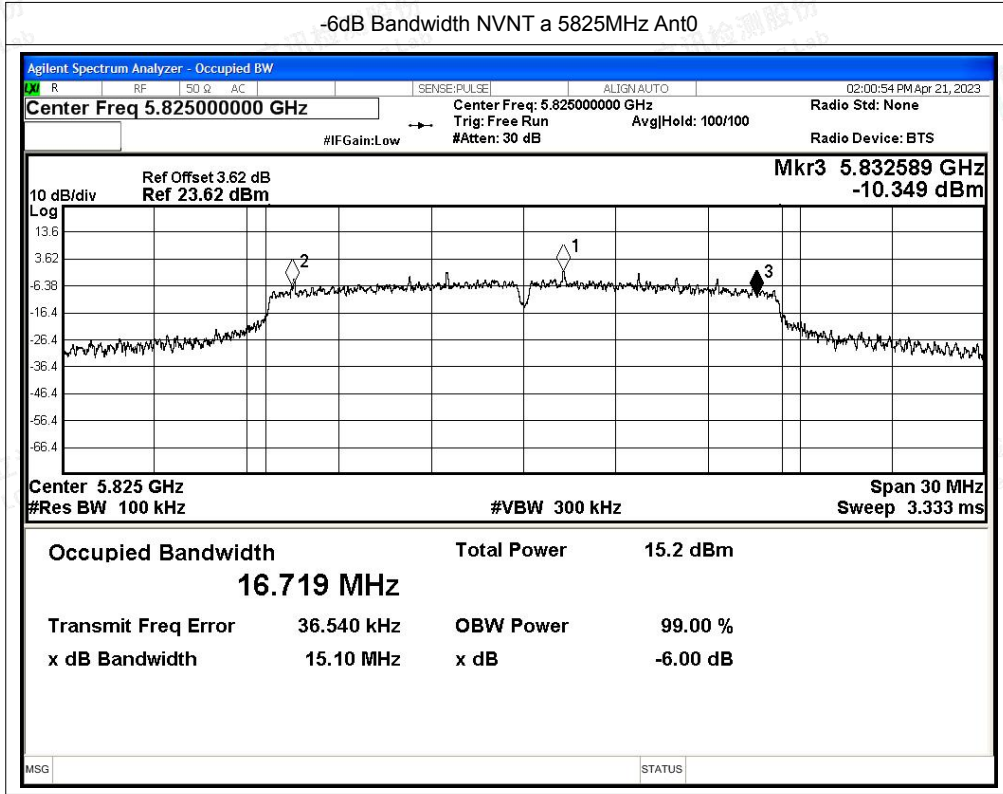
Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant0



-6dB Bandwidth NVNT a 5785MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	13.803	>=0.5	Pass
NVNT	a	5785	Ant1	15.053	>=0.5	Pass
NVNT	a	5825	Ant1	15.324	>=0.5	Pass

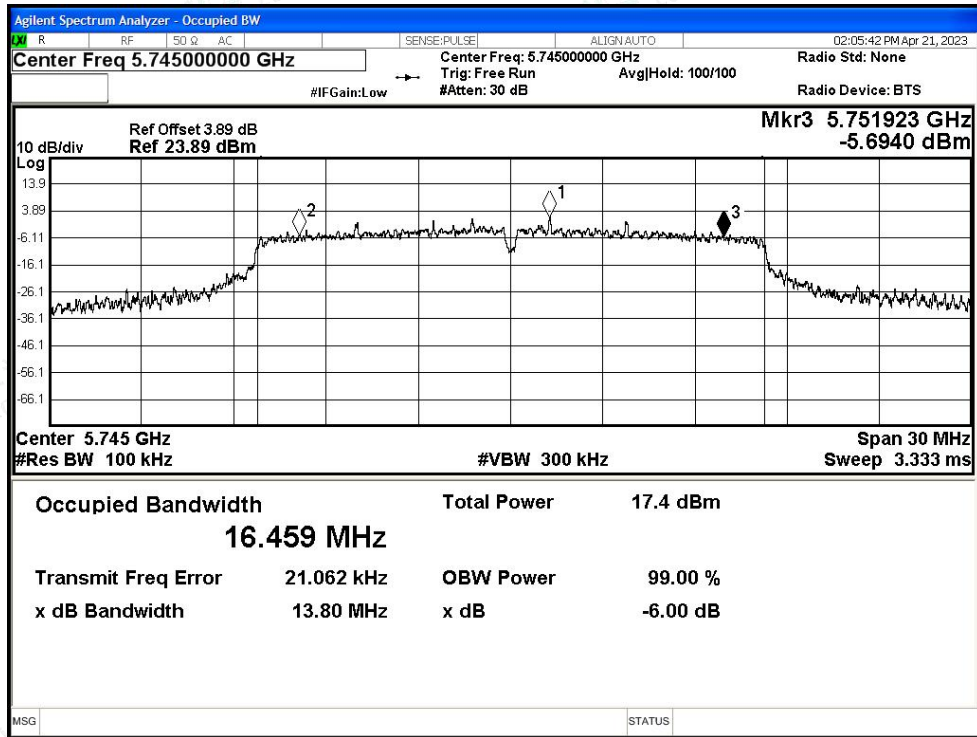


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

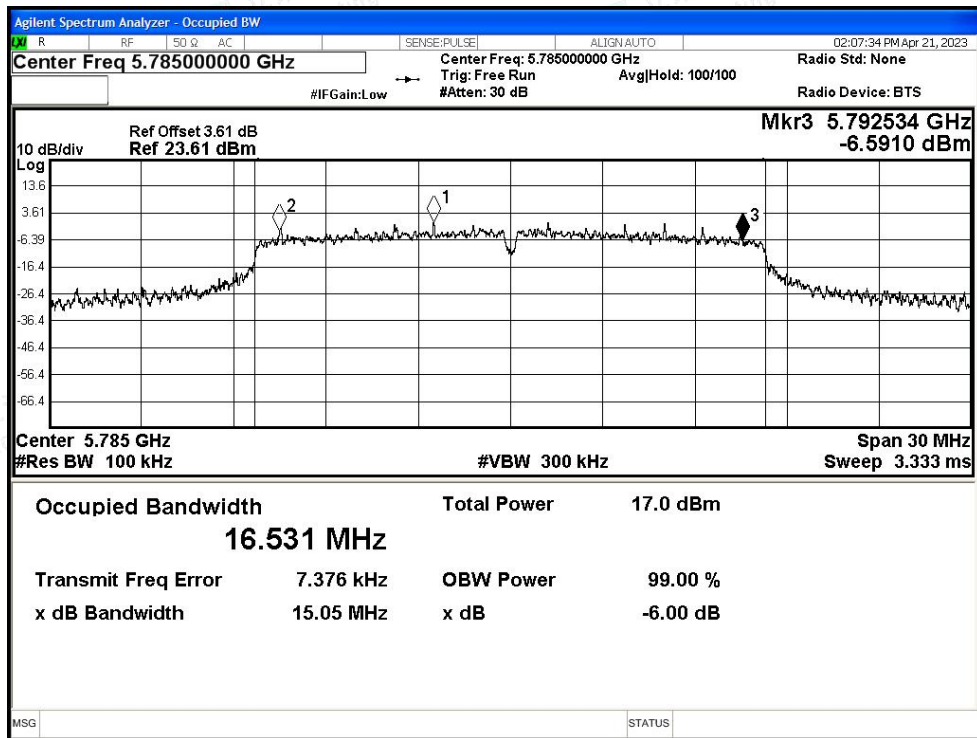


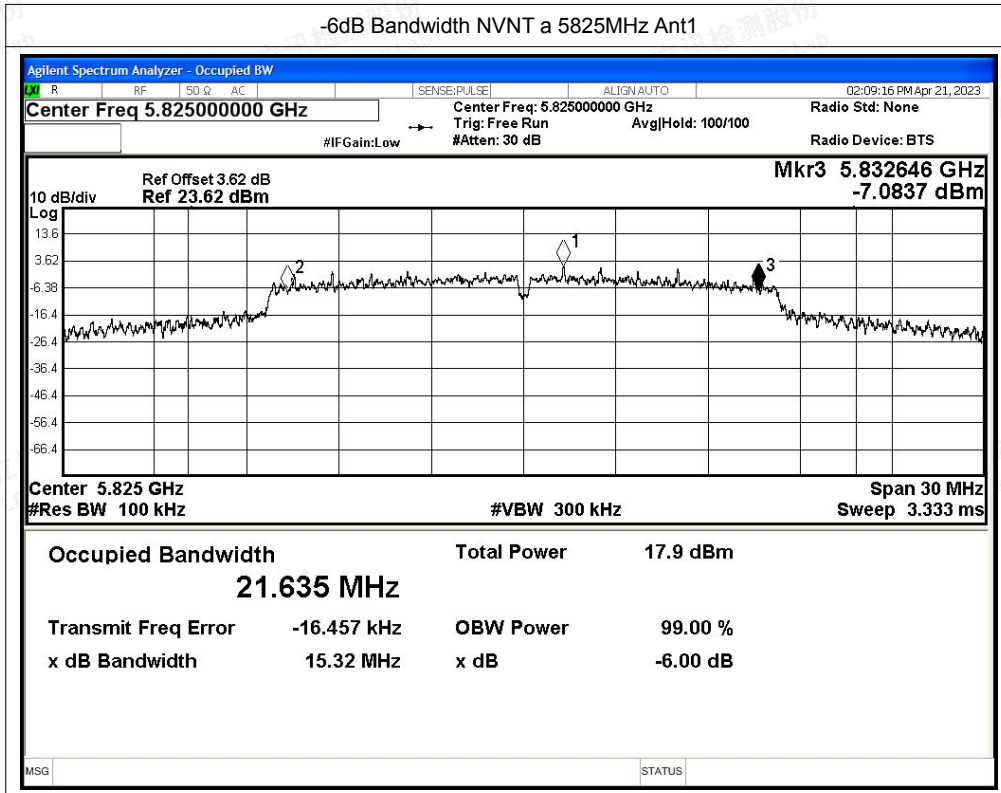
Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1







A.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	6.58	0.13	6.71	30	Pass
NVNT	a	5785	Ant0	6.11	0.13	6.24	30	Pass
NVNT	a	5825	Ant0	6.63	0.13	6.76	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.50	0.13	6.63	30	Pass
NVNT	a	5785	Ant1	6.05	0.13	6.18	30	Pass
NVNT	a	5825	Ant1	6.60	0.13	6.73	30	Pass



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
 Scan code to check authenticity



A.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	-1.16	0.13	-1.03	30	Pass
NVNT	a	5785	Ant0	-1.28	0.13	-1.15	30	Pass
NVNT	a	5825	Ant0	-0.69	0.13	-0.56	30	Pass

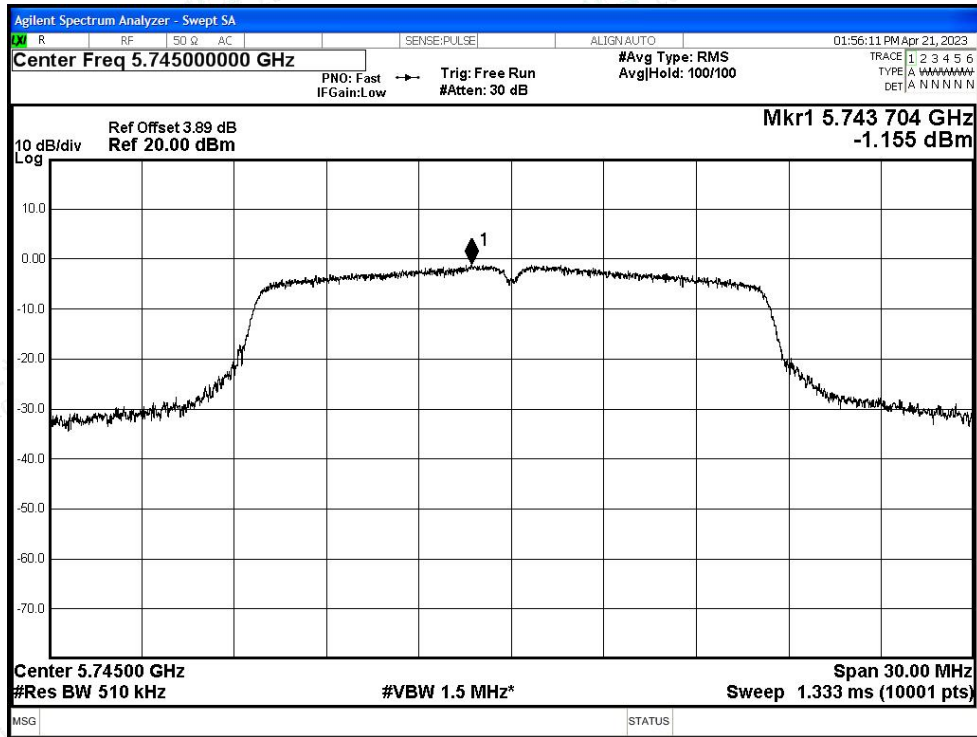


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

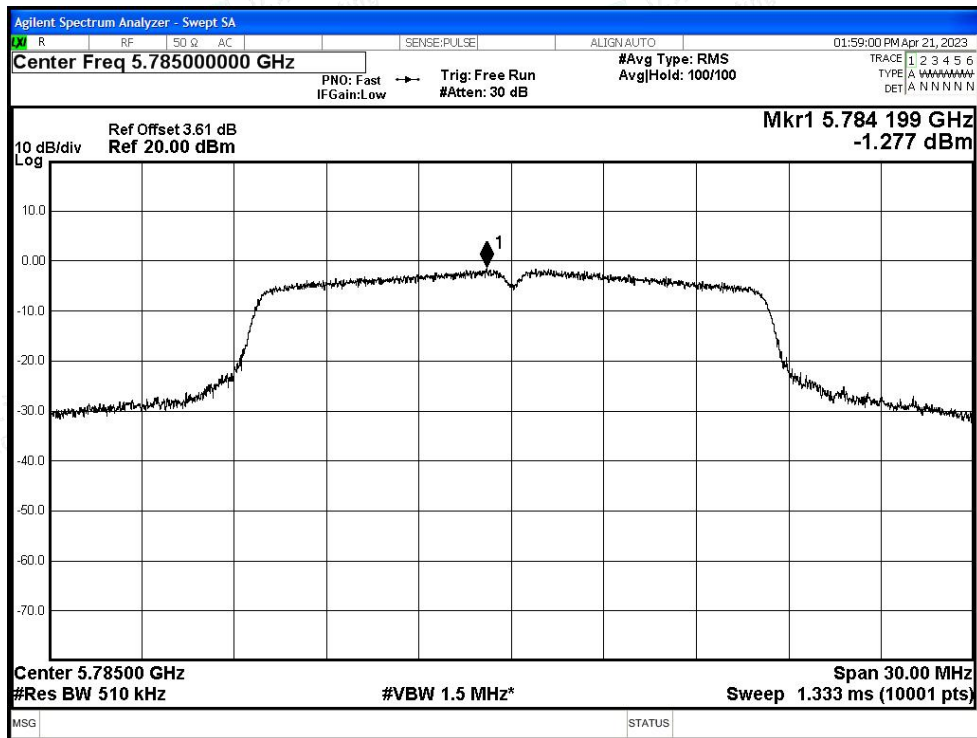


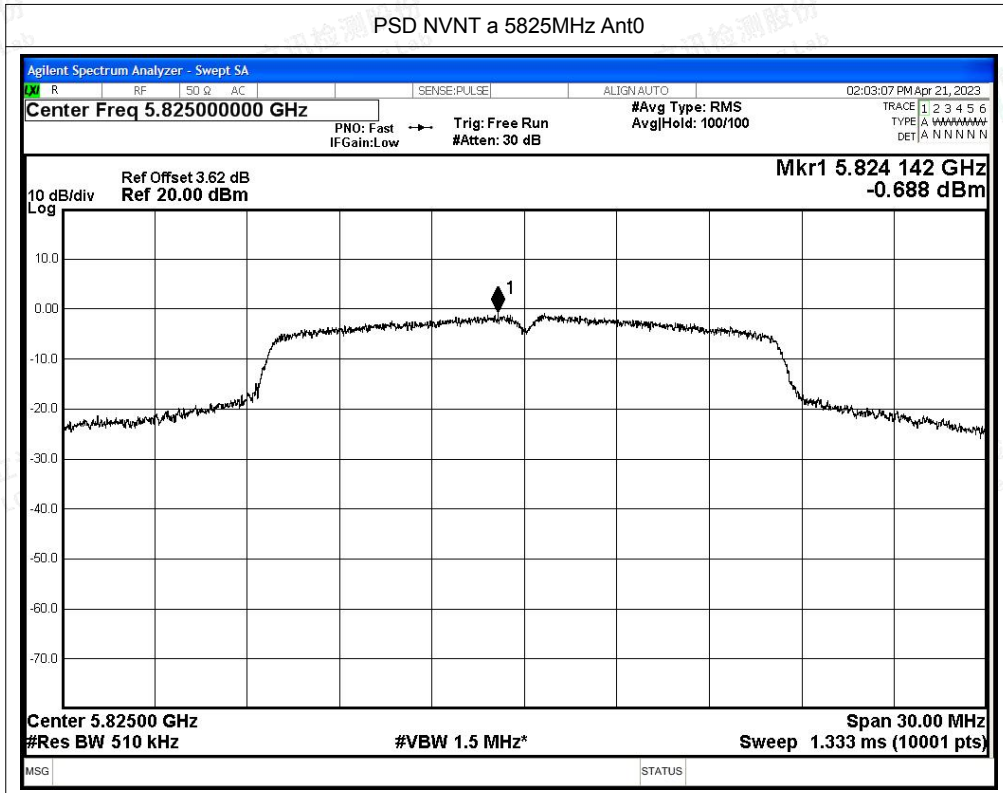
Test Graphs

PSD NVNT a 5745MHz Ant0



PSD NVNT a 5785MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-1.32	0.13	-1.19	30	Pass
NVNT	a	5785	Ant1	-1.42	0.13	-1.29	30	Pass
NVNT	a	5825	Ant1	-1.1	0.13	-0.97	30	Pass

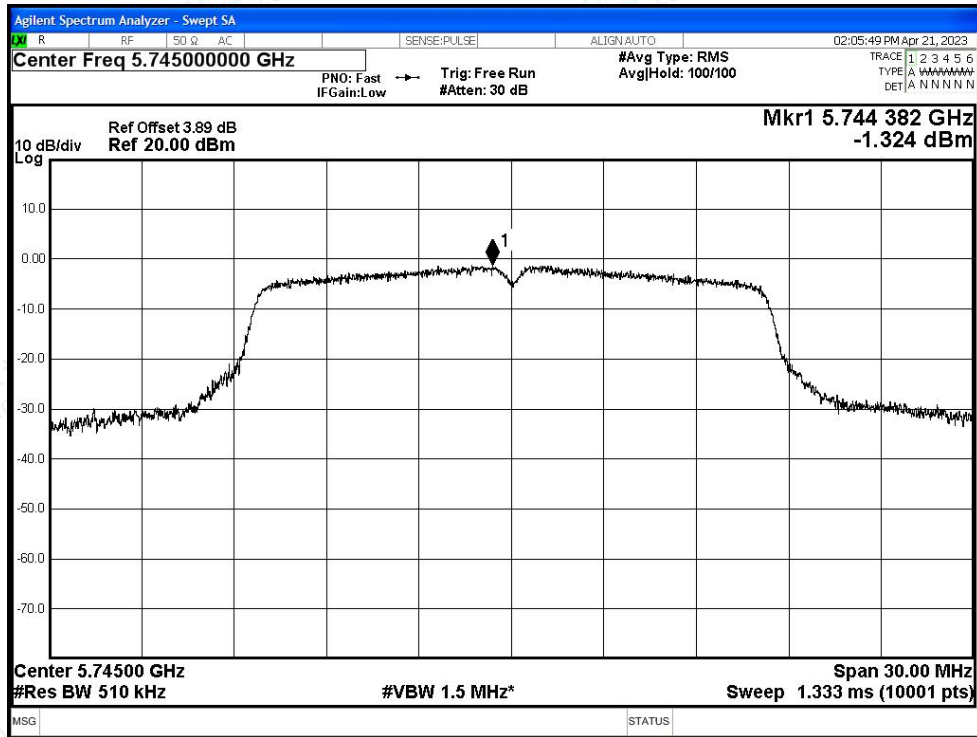


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

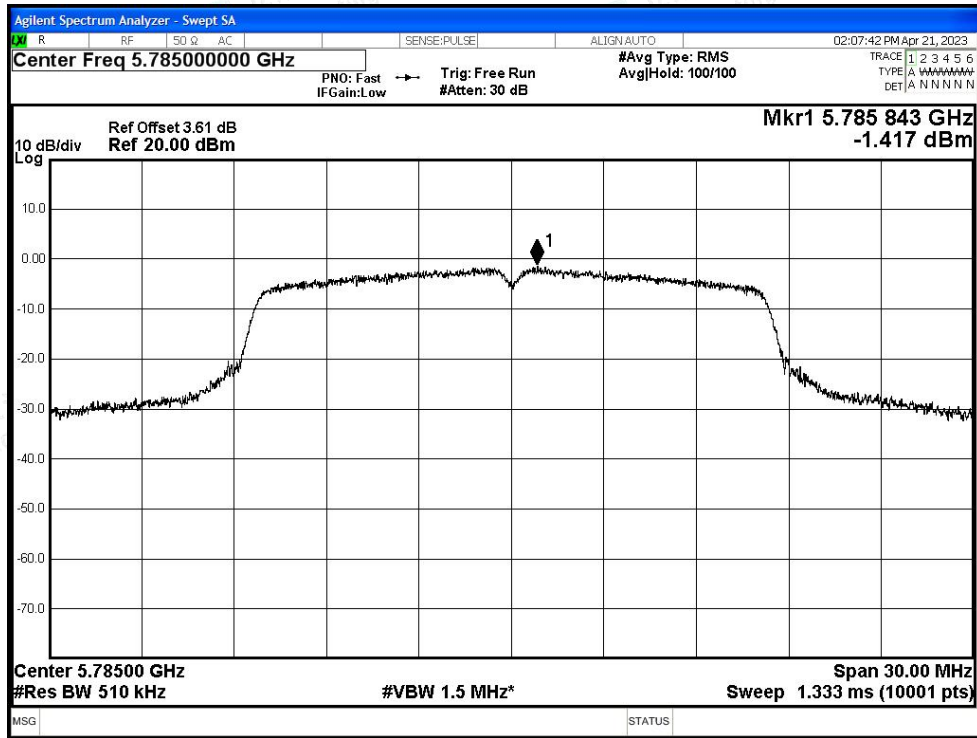


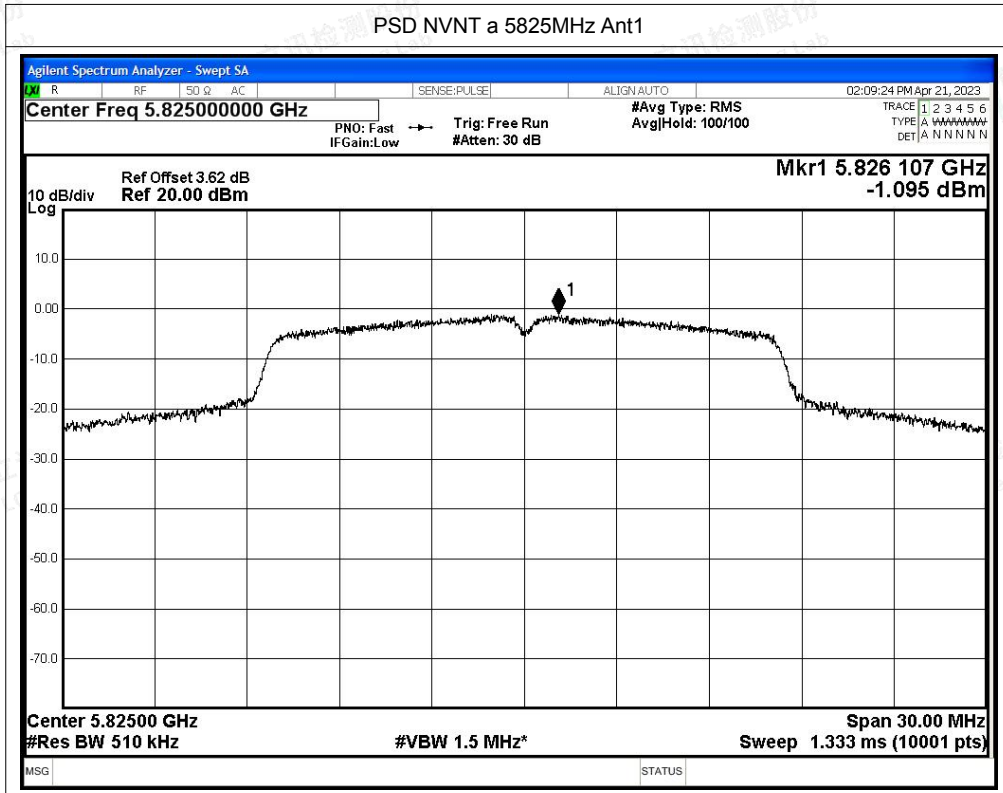
Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1







A.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	Ant0	5650	-48.46	4.91	-43.55	Peak	-27	Pass
NVNT	a	5745	Ant0	5650	-54.49	4.91	-49.58	Average	-27	Pass
NVNT	a	5745	Ant0	5700	-39.18	4.91	-34.27	Peak	10	Pass
NVNT	a	5745	Ant0	5700	-48.6	4.91	-43.69	Average	10	Pass
NVNT	a	5745	Ant0	5720	-30.92	4.91	-26.01	Peak	15.6	Pass
NVNT	a	5745	Ant0	5720	-39.45	4.91	-34.54	Average	15.6	Pass
NVNT	a	5745	Ant0	5725	-26.1	4.91	-21.19	Peak	27	Pass
NVNT	a	5745	Ant0	5725	-33.91	4.91	-29.00	Average	27	Pass
NVNT	a	5825	Ant0	5850	-29.54	4.91	-24.63	Peak	27	Pass
NVNT	a	5825	Ant0	5850	-41.22	4.91	-36.31	Average	27	Pass
NVNT	a	5825	Ant0	5855	-38.7	4.91	-33.79	Peak	15.6	Pass
NVNT	a	5825	Ant0	5855	-44.48	4.91	-39.57	Average	15.6	Pass
NVNT	a	5825	Ant0	5875	-43.55	4.91	-38.64	Peak	10	Pass
NVNT	a	5825	Ant0	5875	-53.56	4.91	-48.65	Average	10	Pass
NVNT	a	5825	Ant0	5925	-47.6	4.91	-42.69	Peak	-27	Pass
NVNT	a	5825	Ant0	5925	-55.69	4.91	-50.78	Average	-27	Pass

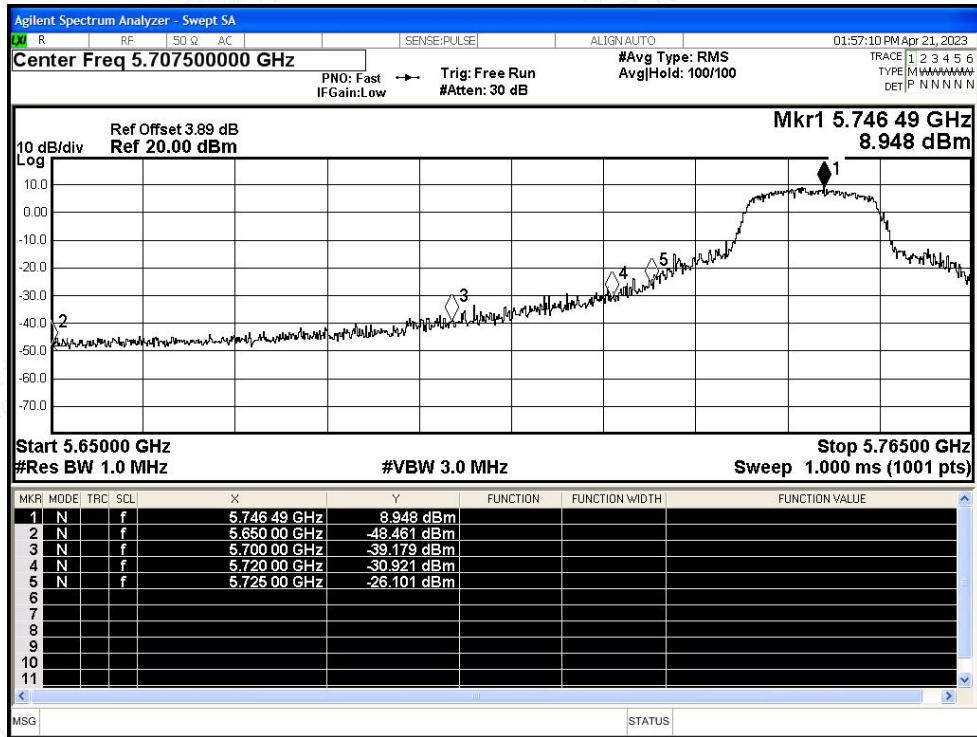


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

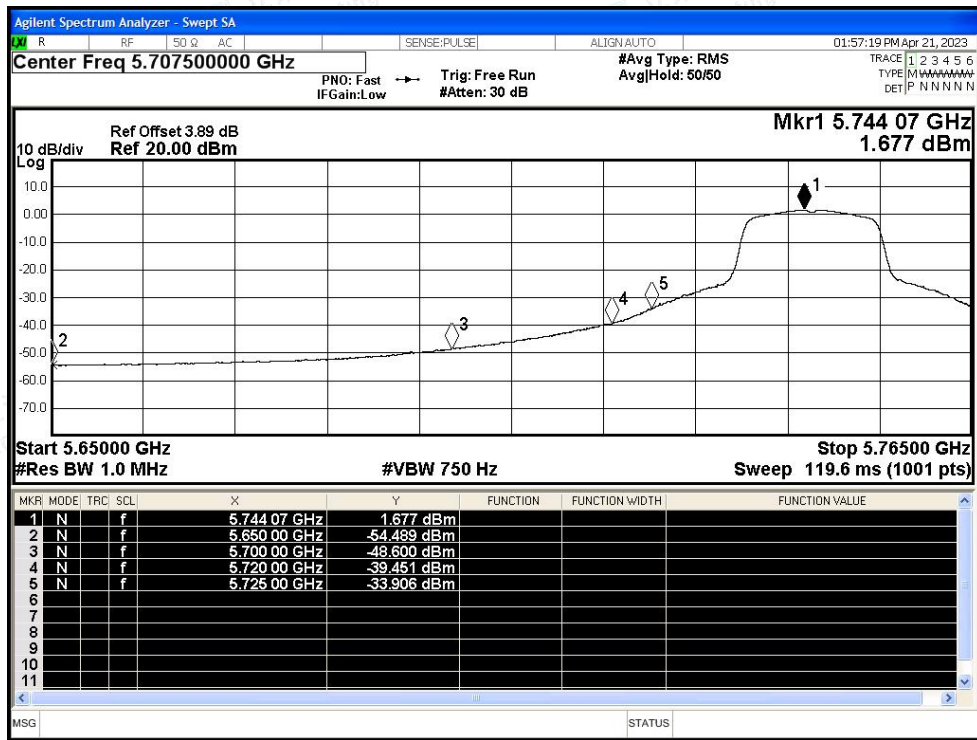


Test Graphs

Restrict Band NVNT a 5745MHz Ant0 Peak

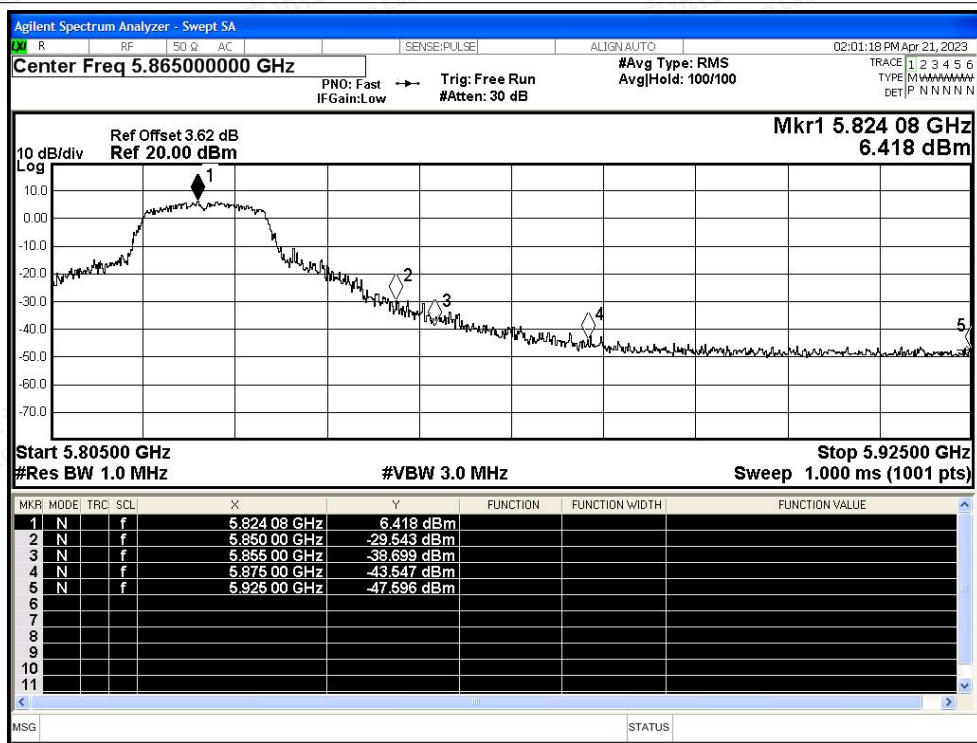


Restrict Band NVNT a 5745MHz Ant0 Average

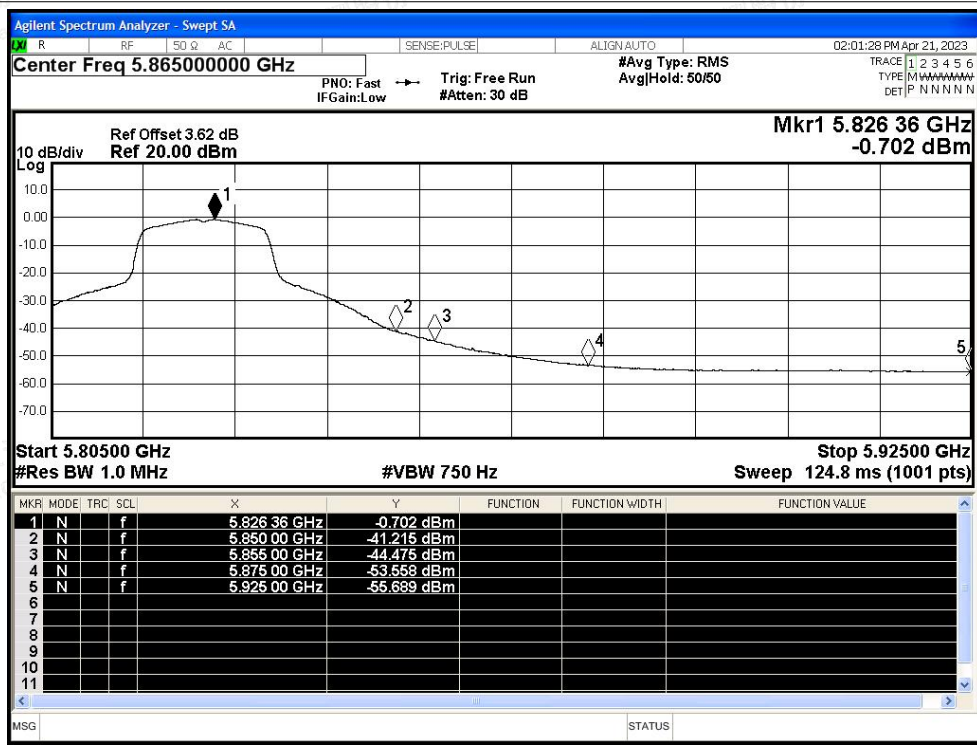




Restrict Band NVNT a 5825MHz Ant0 Peak



Restrict Band NVNT a 5825MHz Ant0 Average





Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-47.84	4.91	-42.93	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-54.41	4.91	-49.50	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-40.45	4.91	-35.54	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-49.55	4.91	-44.64	Average	10	Pass
NVNT	a	5745	Ant1	5720	-33.32	4.91	-28.41	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-40.3	4.91	-35.39	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-24.66	4.91	-19.75	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-34.89	4.91	-29.98	Average	27	Pass
NVNT	a	5825	Ant1	5850	-25.21	4.91	-20.30	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-33.03	4.91	-28.12	Average	27	Pass
NVNT	a	5825	Ant1	5855	-27.96	4.91	-23.05	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-37.4	4.91	-32.49	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-40.62	4.91	-35.71	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-49.12	4.91	-44.21	Average	10	Pass
NVNT	a	5825	Ant1	5925	-48.33	4.91	-43.42	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-55.34	4.91	-50.43	Average	-27	Pass

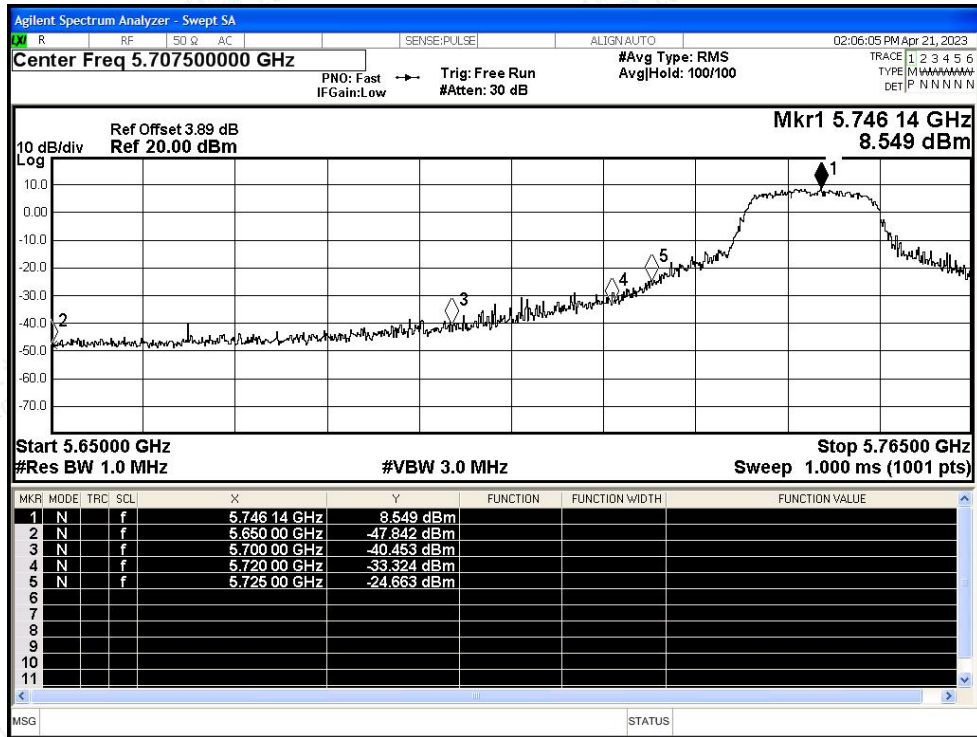


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

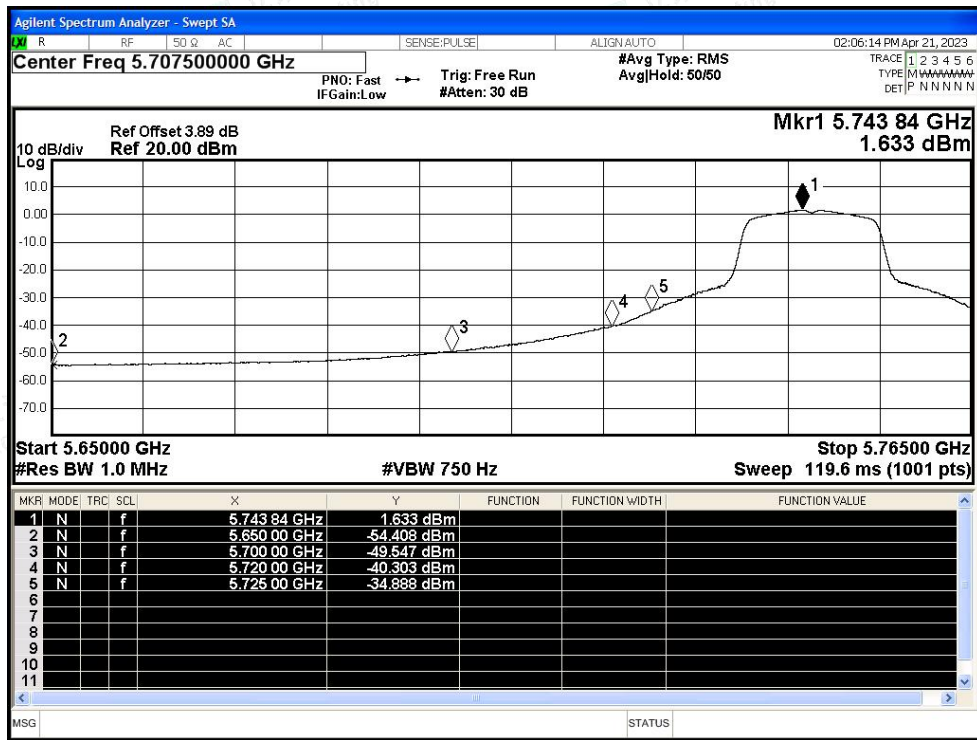


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak

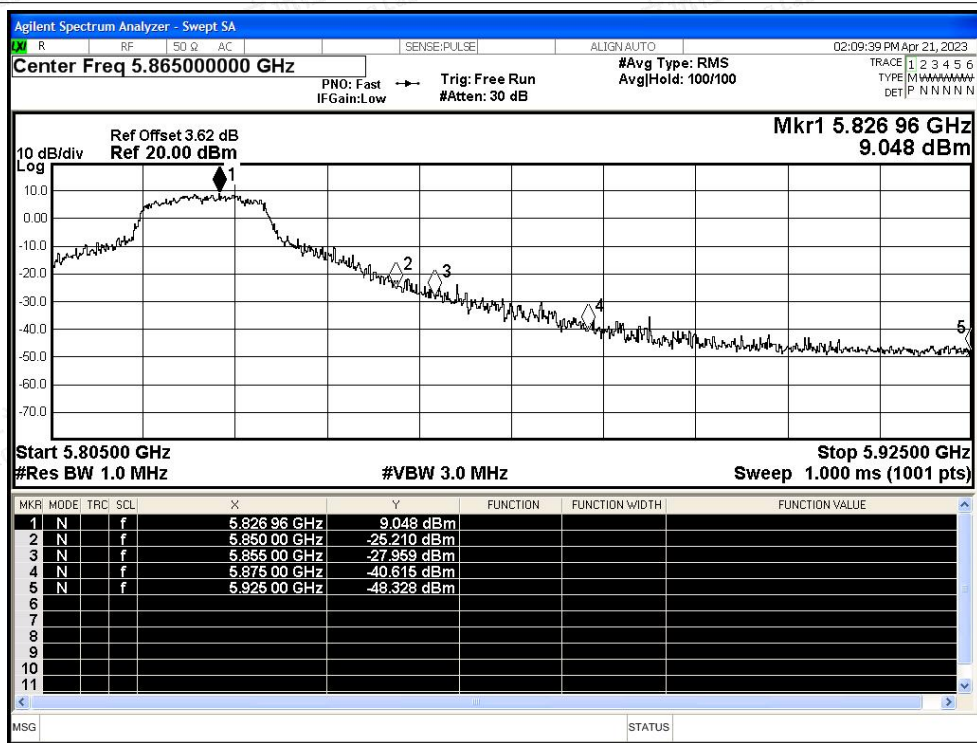


Restrict Band NVNT a 5745MHz Ant1 Average

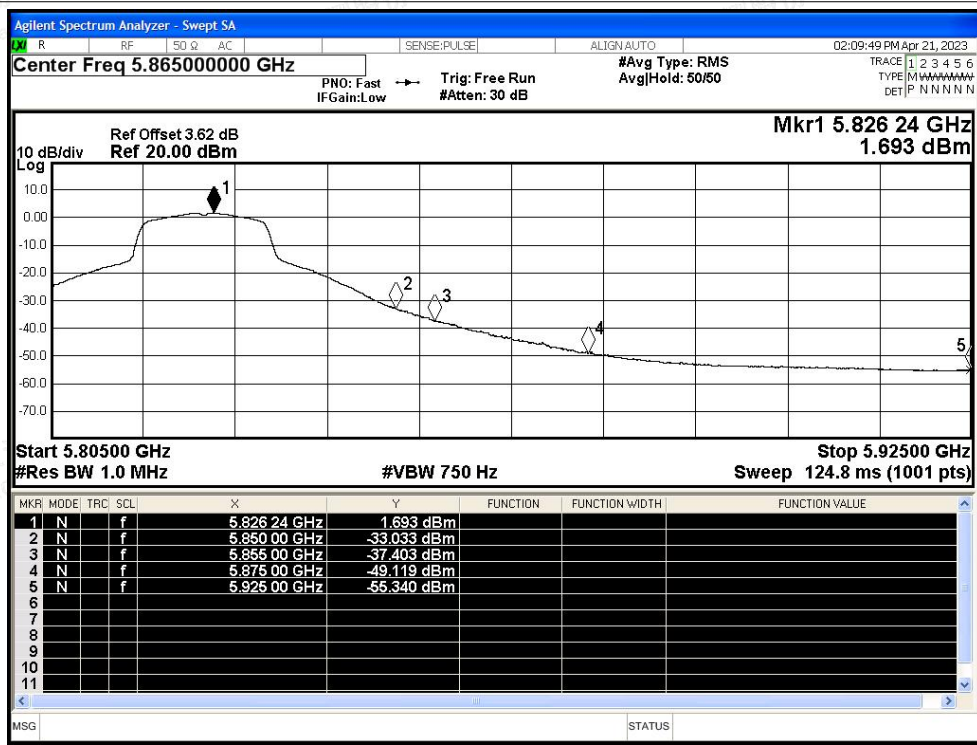




Restrict Band NVNT a 5825MHz Ant1 Peak



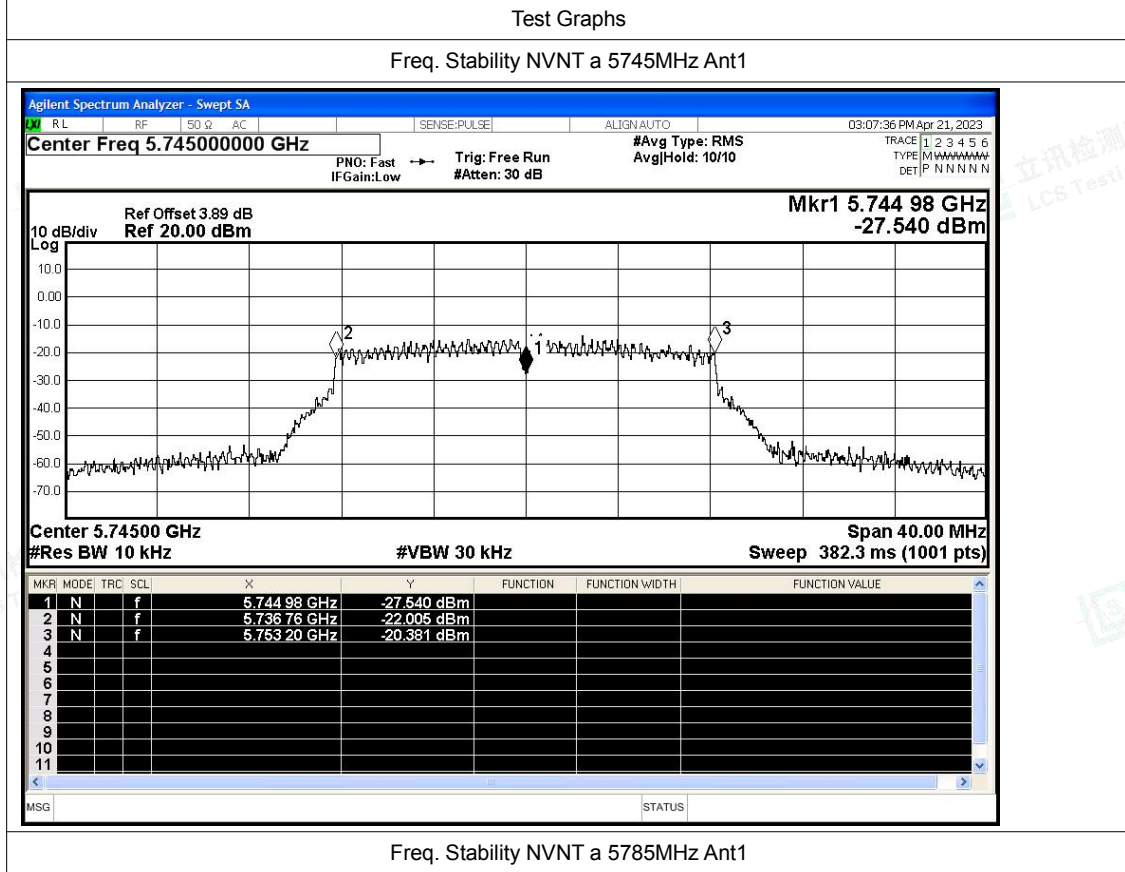
Restrict Band NVNT a 5825MHz Ant1 Average

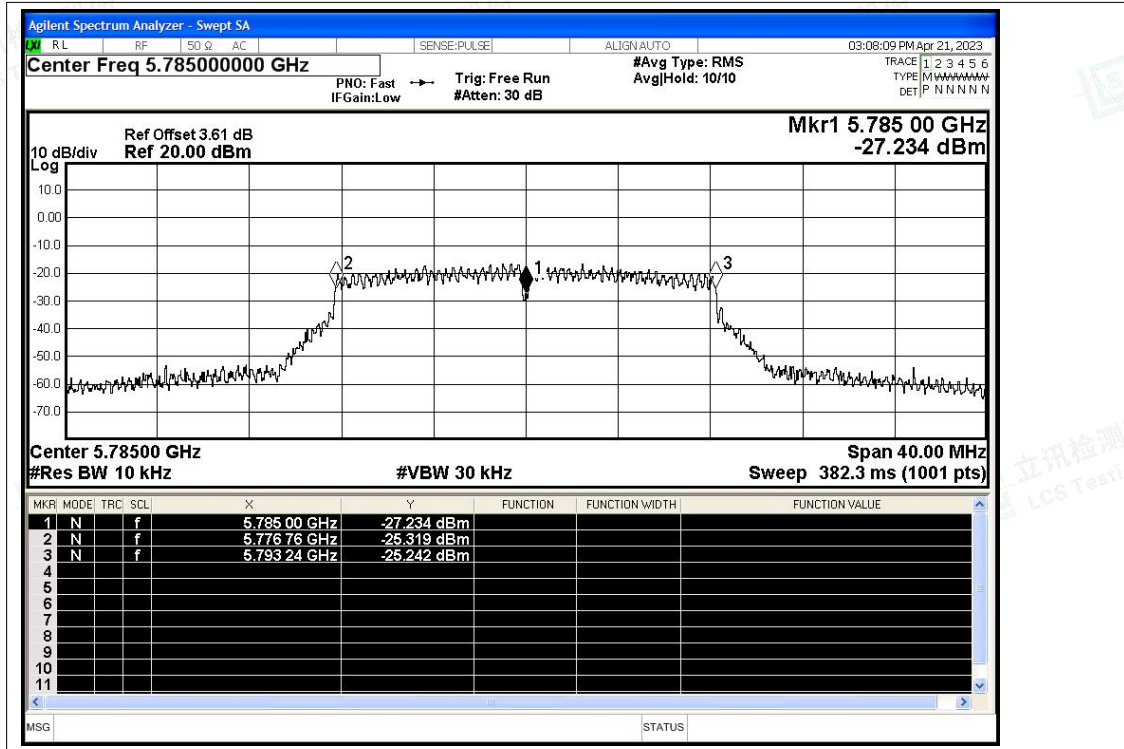


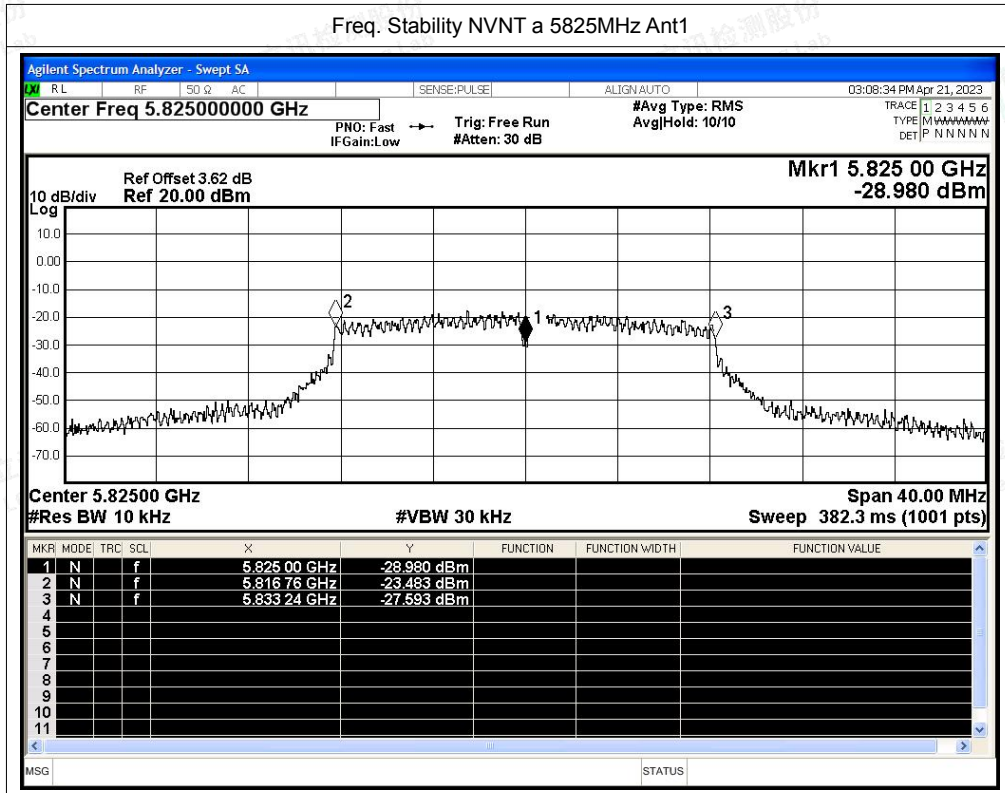


A.5 Frequency Stability

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	5785	0	0	25	Pass
NVNT	a	5825	Ant0	5825	0	0	25	Pass







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	5784.98	-20000	-3.46	25	Pass
NVNT	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass

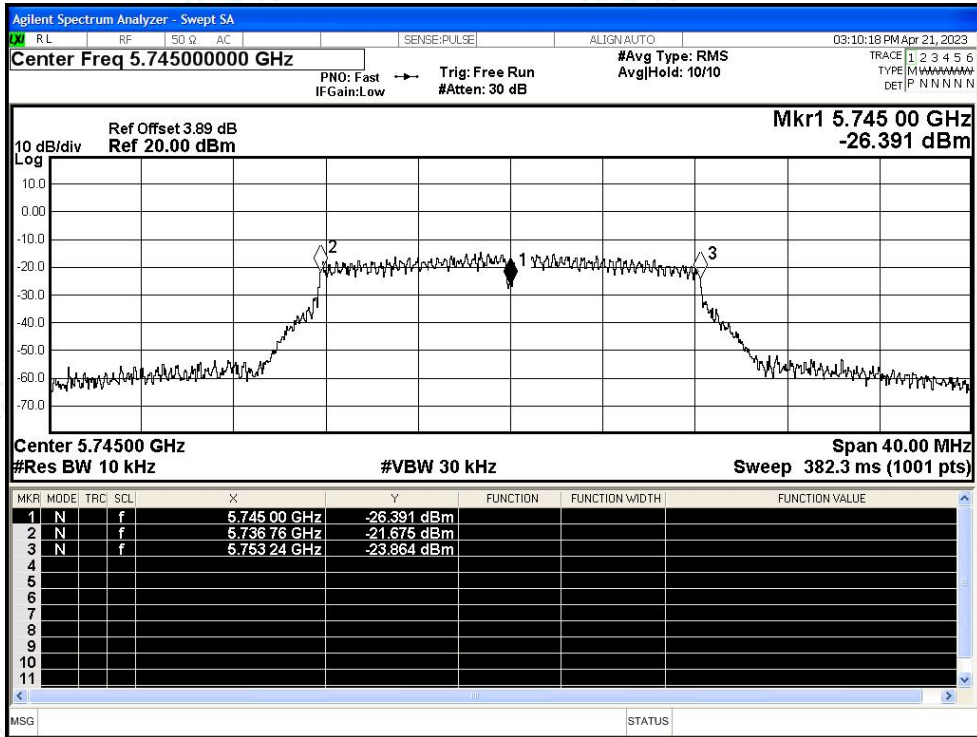


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

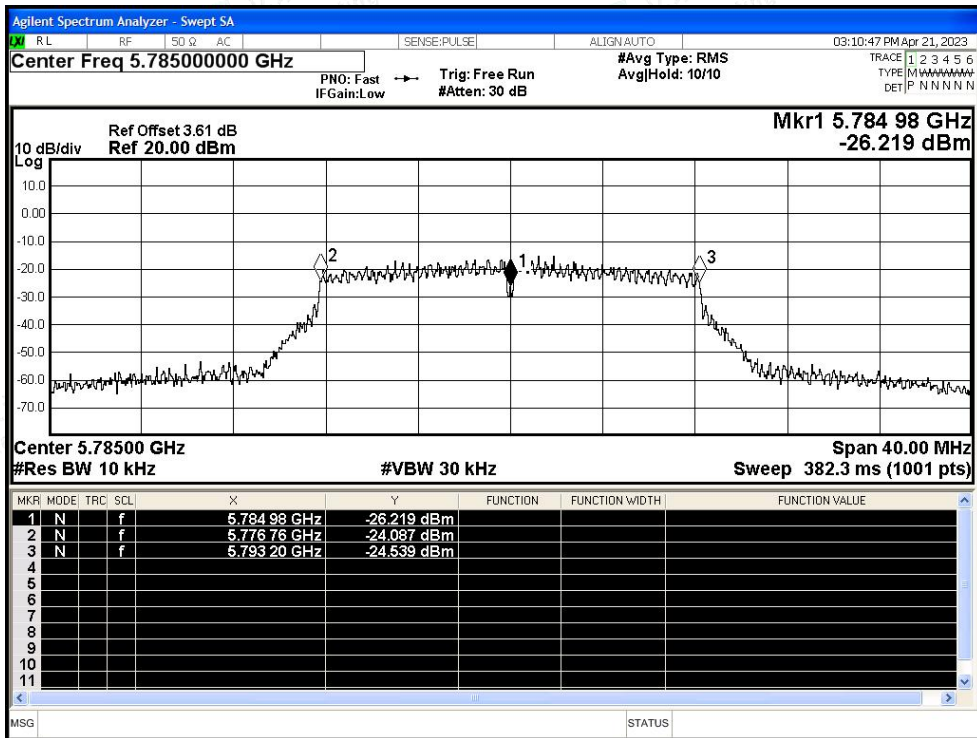


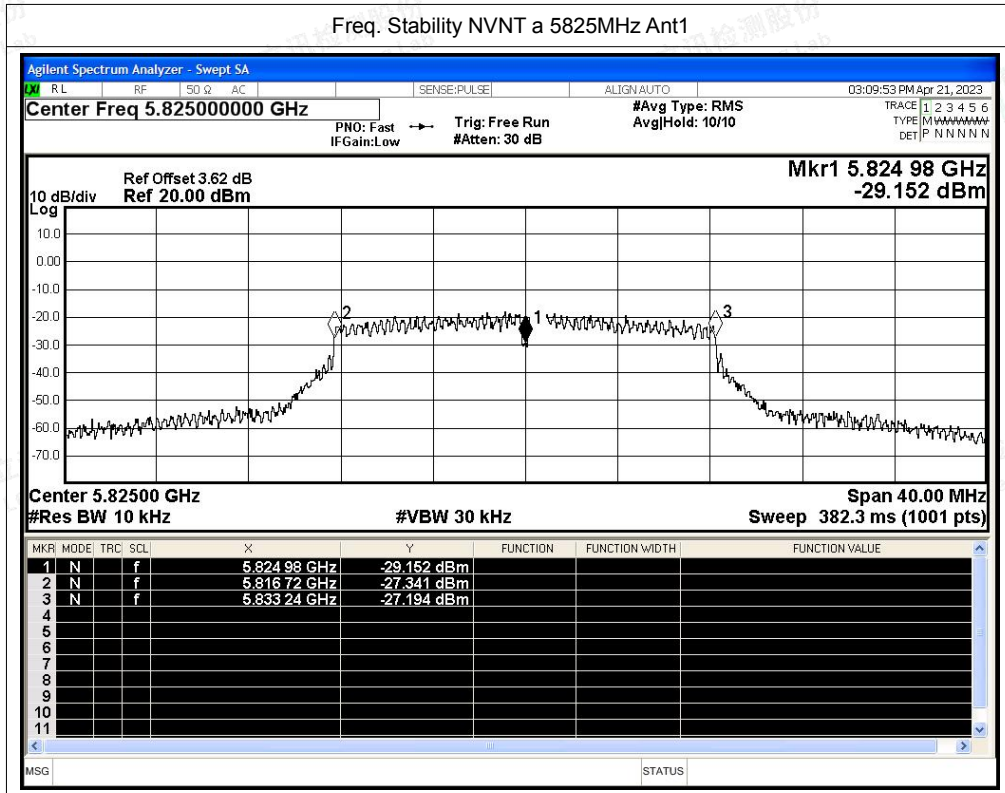
Test Graphs

Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability NVNT a 5785MHz Ant1







A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant0	96.94	0.13	0.72
NVNT	a	5785	Ant0	96.94	0.13	0.72
NVNT	a	5825	Ant0	96.94	0.13	0.72

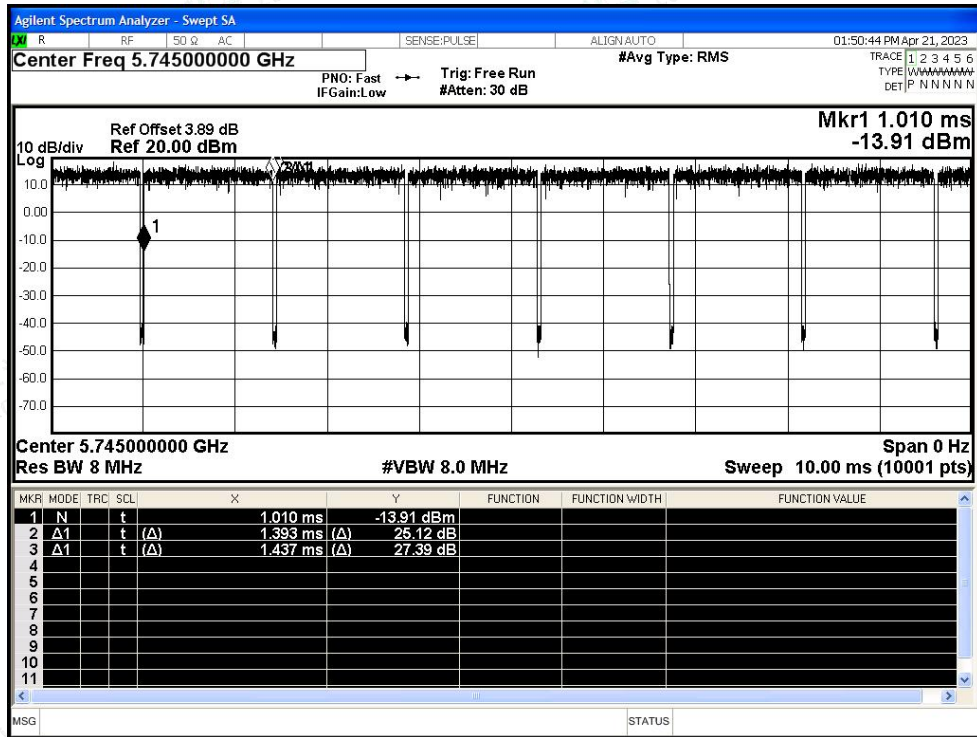


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

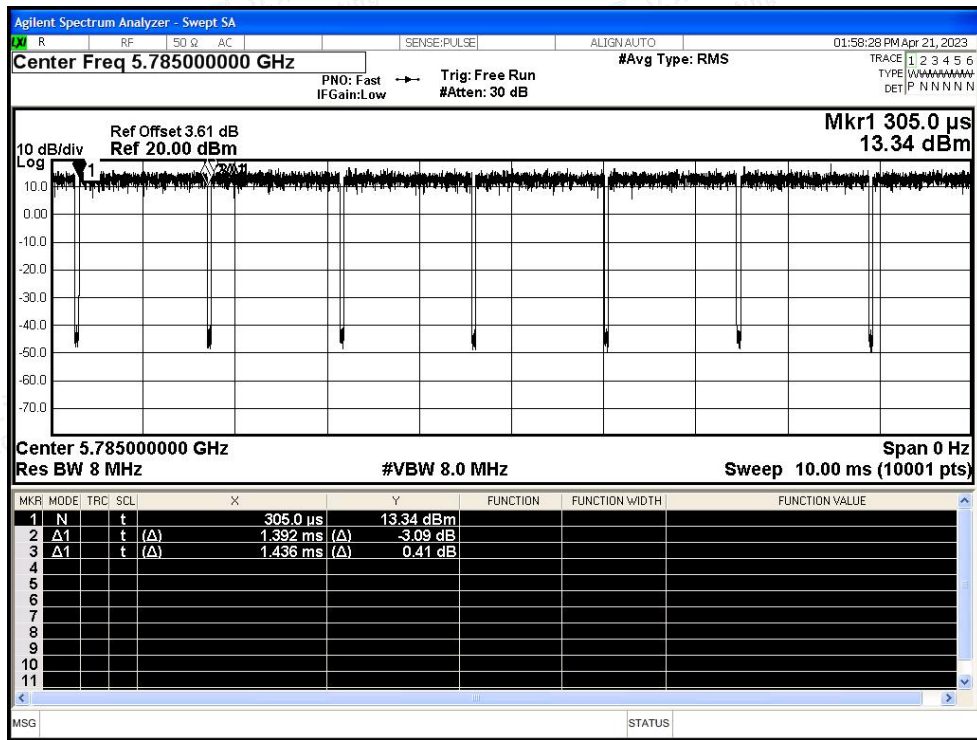


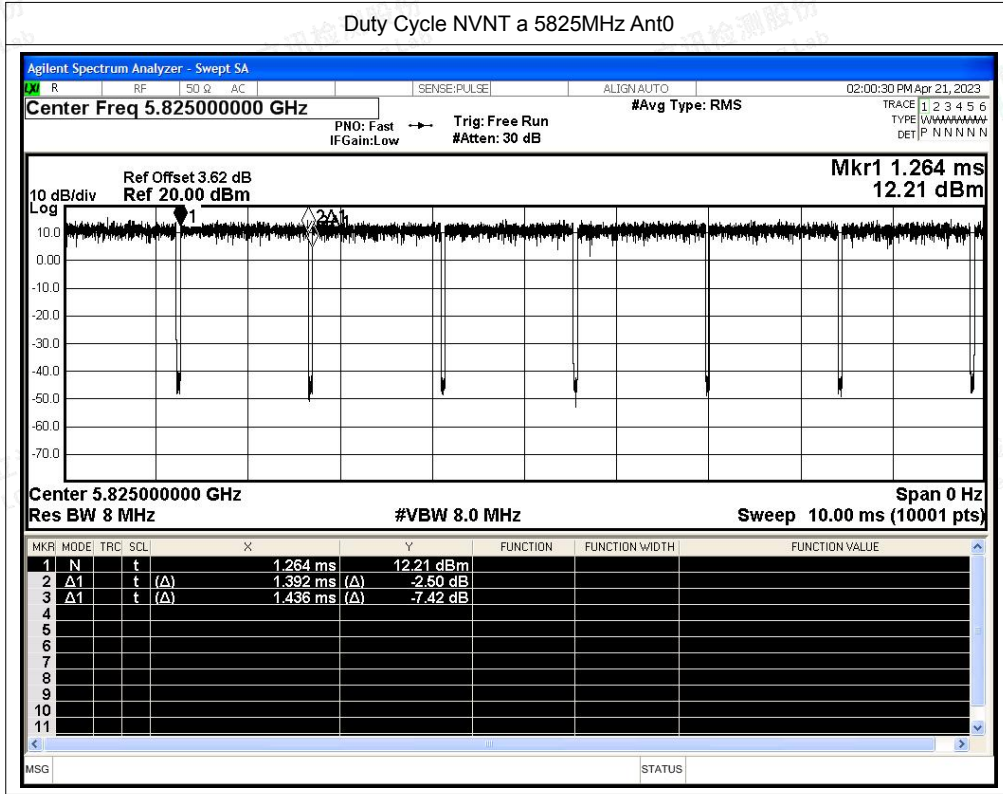
Test Graphs

Duty Cycle NVNT a 5745MHz Ant0



Duty Cycle NVNT a 5785MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	96.94	0.13	0.72
NVNT	a	5785	Ant1	96.94	0.13	0.72
NVNT	a	5825	Ant1	96.94	0.13	0.72

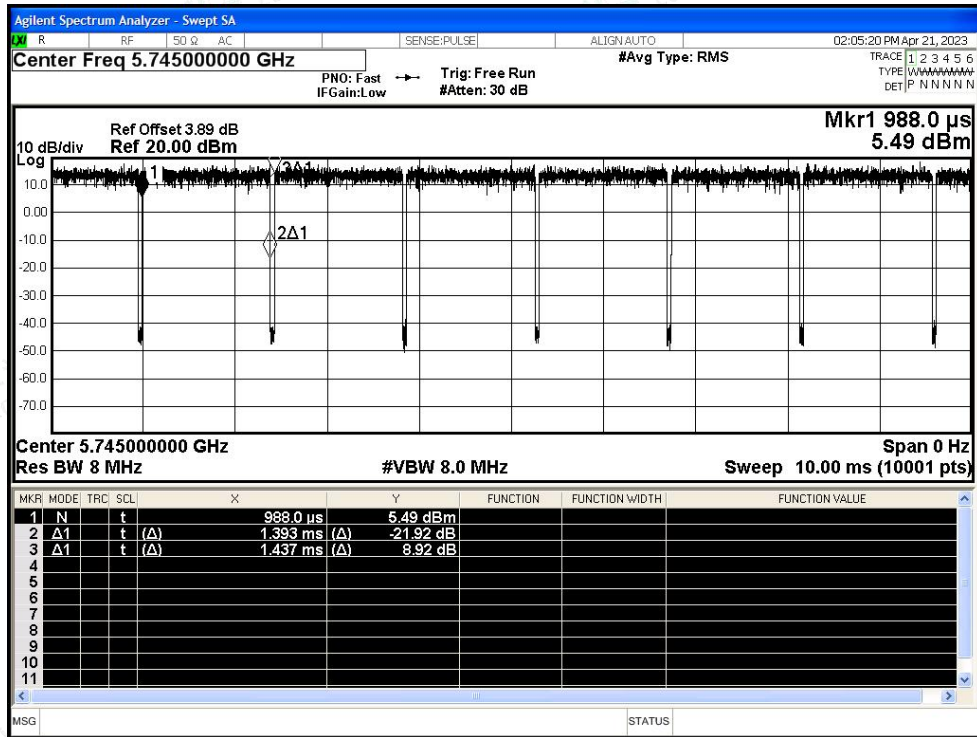


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1

