



Appendix C

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF100W

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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



C.1 -26dB Bandwidth

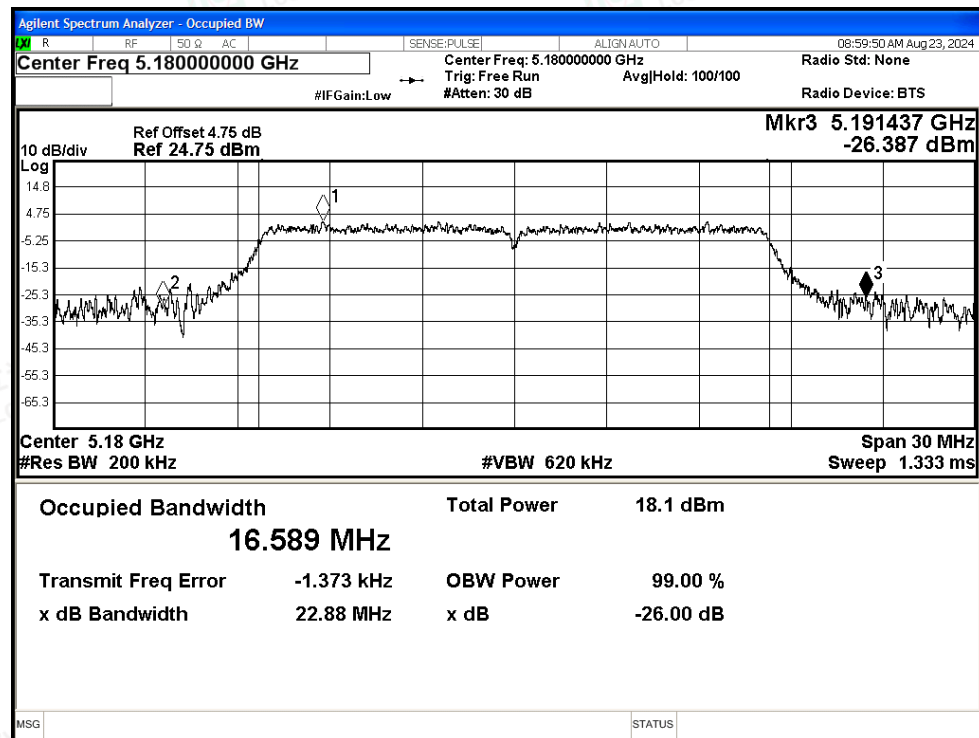
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.876	---	Pass
NVNT	a	5200	Ant1	26.369	---	Pass
NVNT	a	5240	Ant1	24.382	---	Pass
NVNT	n20	5180	Ant1	26.984	---	Pass
NVNT	n20	5200	Ant1	24.058	---	Pass
NVNT	n20	5240	Ant1	23.104	---	Pass
NVNT	n40	5190	Ant1	54.749	---	Pass
NVNT	n40	5230	Ant1	53.018	---	Pass



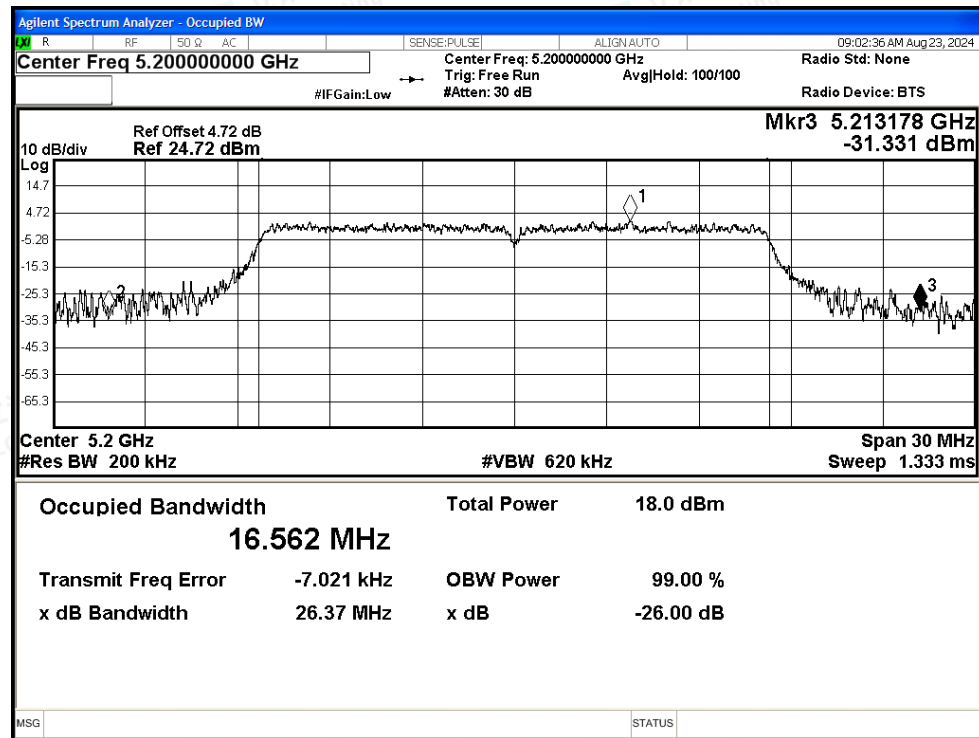


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

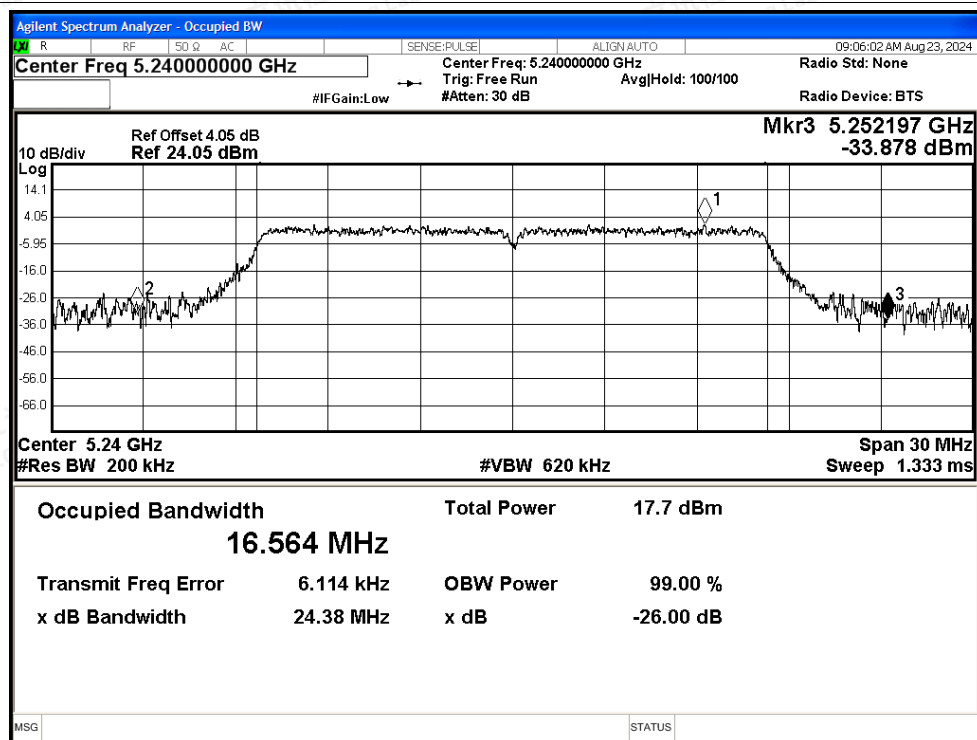
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

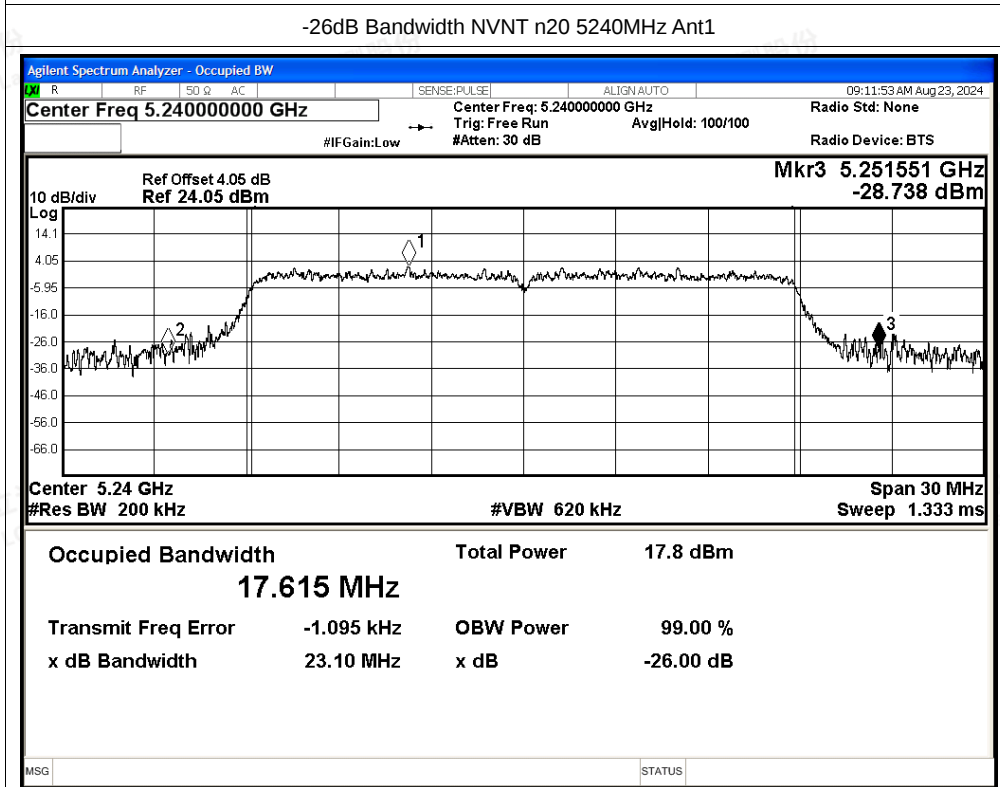
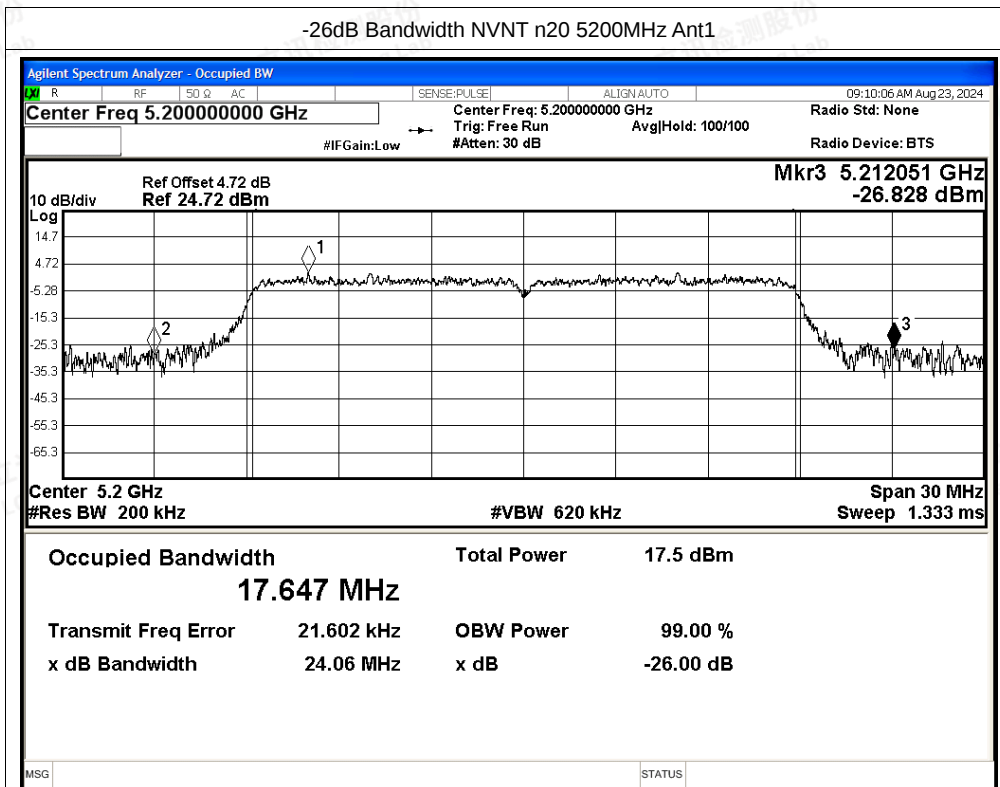


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

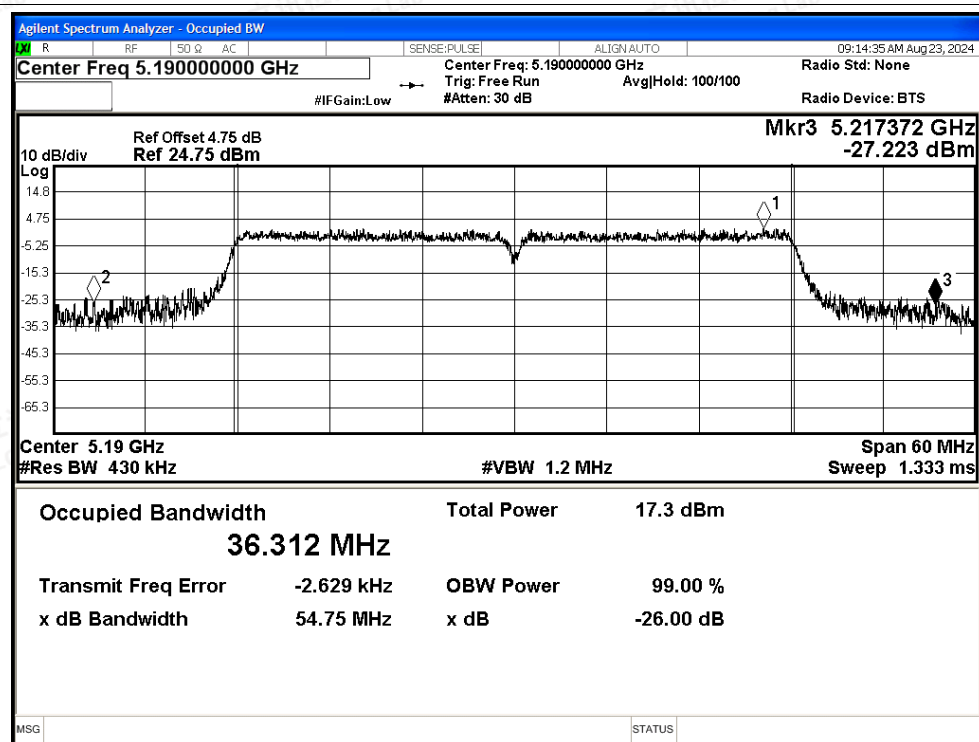
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

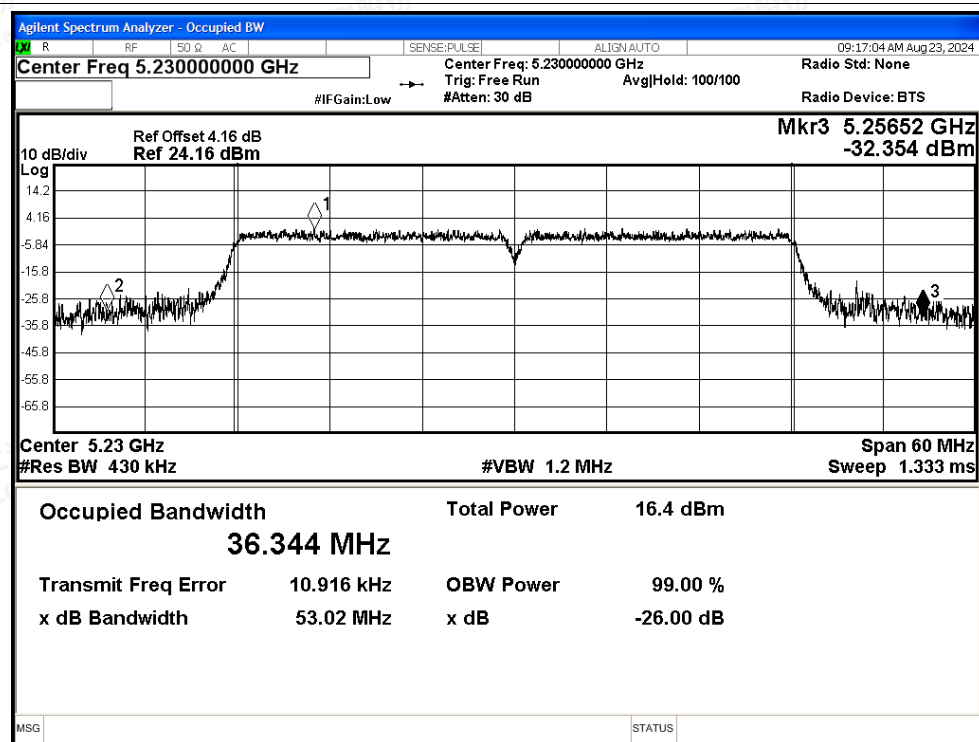




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz 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

Scan code to check authenticity



C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.14	0.51	12.65	24	Pass
NVNT	a	5200	Ant1	12.64	0.47	13.11	24	Pass
NVNT	a	5240	Ant1	11.84	0.5	12.34	24	Pass
NVNT	n20	5180	Ant1	11.82	0.55	12.37	24	Pass
NVNT	n20	5200	Ant1	11.61	0.59	12.20	24	Pass
NVNT	n20	5240	Ant1	11.7	0.55	12.25	24	Pass
NVNT	n40	5190	Ant1	10.81	0.98	11.79	24	Pass
NVNT	n40	5230	Ant1	10.1	0.98	11.08	24	Pass





C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.55	0.51	2.06	11	Pass
NVNT	a	5200	Ant1	1.92	0.47	2.39	11	Pass
NVNT	a	5240	Ant1	1.62	0.5	2.12	11	Pass
NVNT	n20	5180	Ant1	1.21	0.55	1.76	11	Pass
NVNT	n20	5200	Ant1	1.38	0.59	1.97	11	Pass
NVNT	n20	5240	Ant1	1.01	0.55	1.56	11	Pass
NVNT	n40	5190	Ant1	-2.93	0.98	-1.95	11	Pass
NVNT	n40	5230	Ant1	-3.55	0.98	-2.57	11	Pass

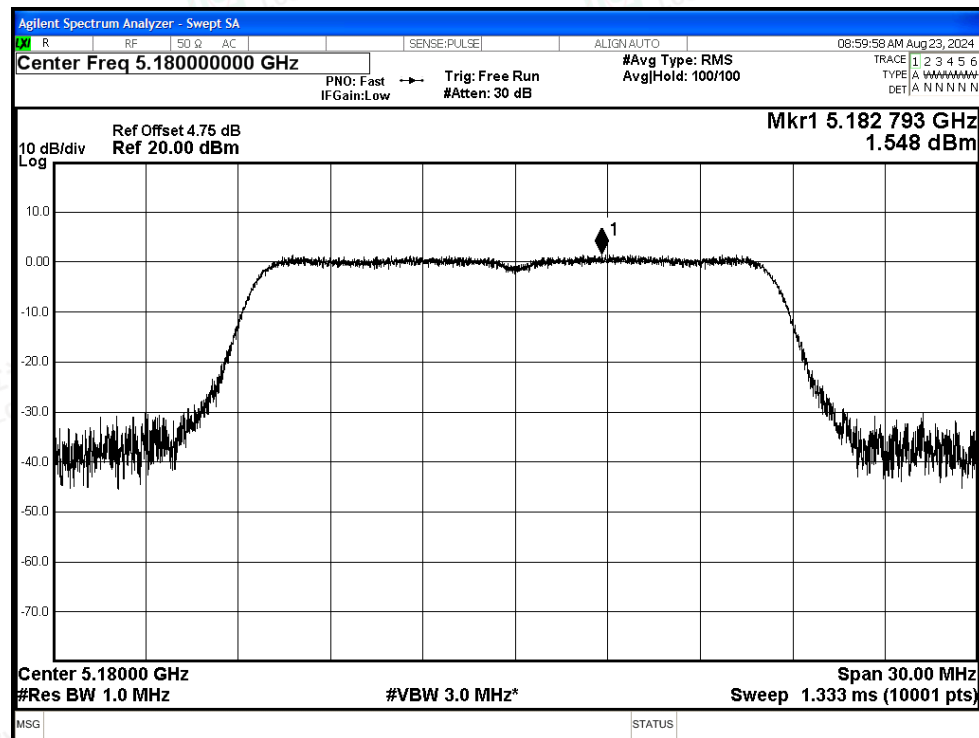


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

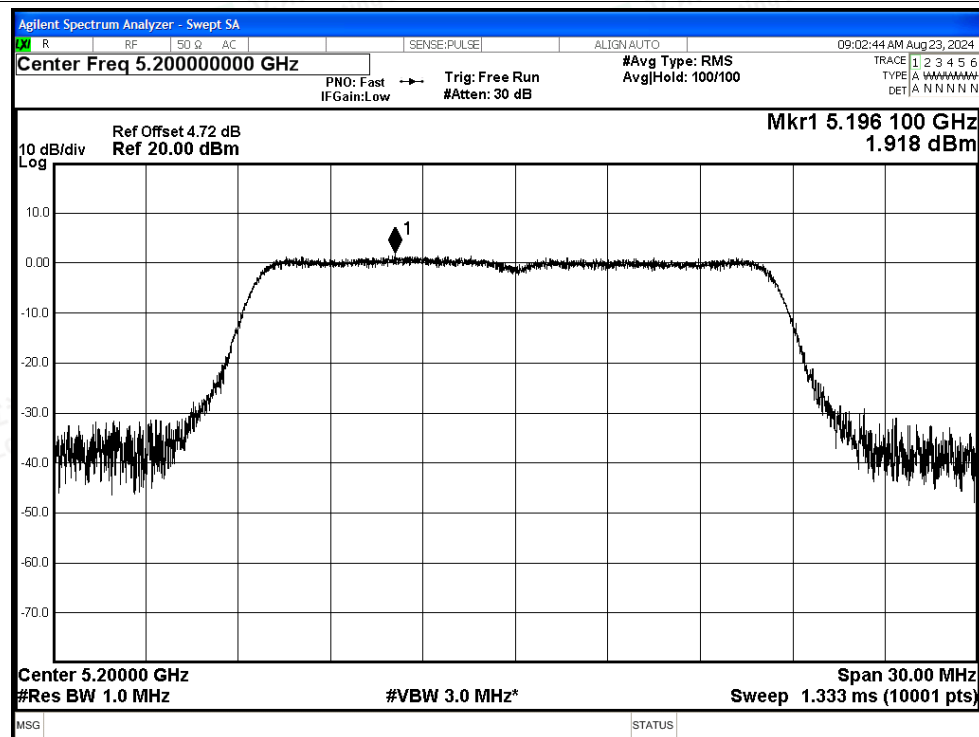


Test Graphs

PSD NVNT a 5180MHz Ant1

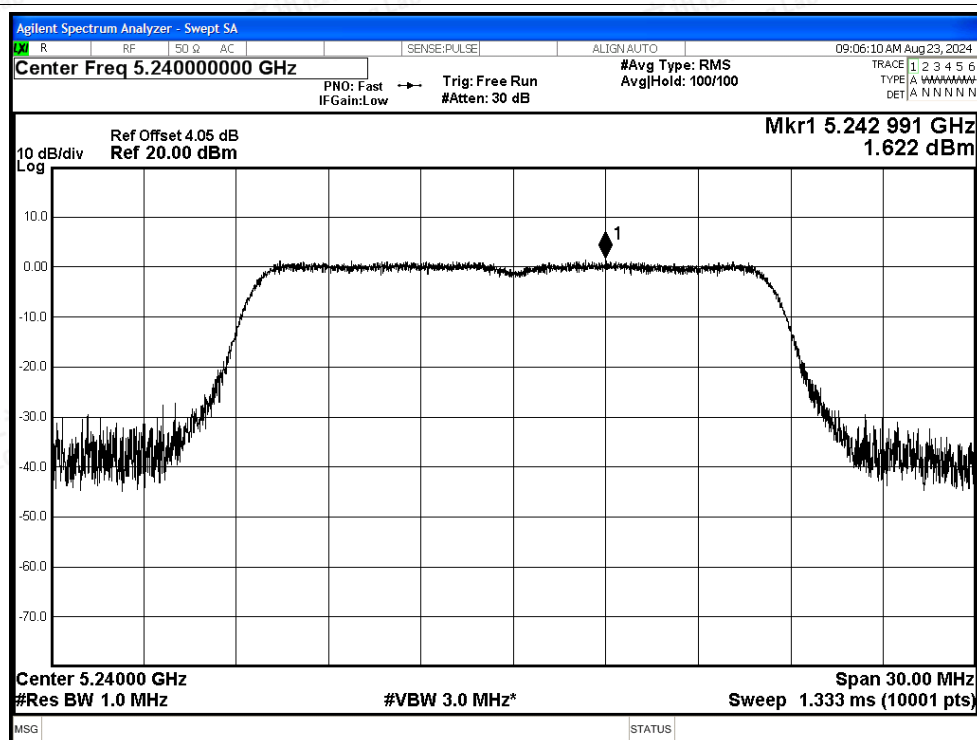


PSD NVNT a 5200MHz Ant1

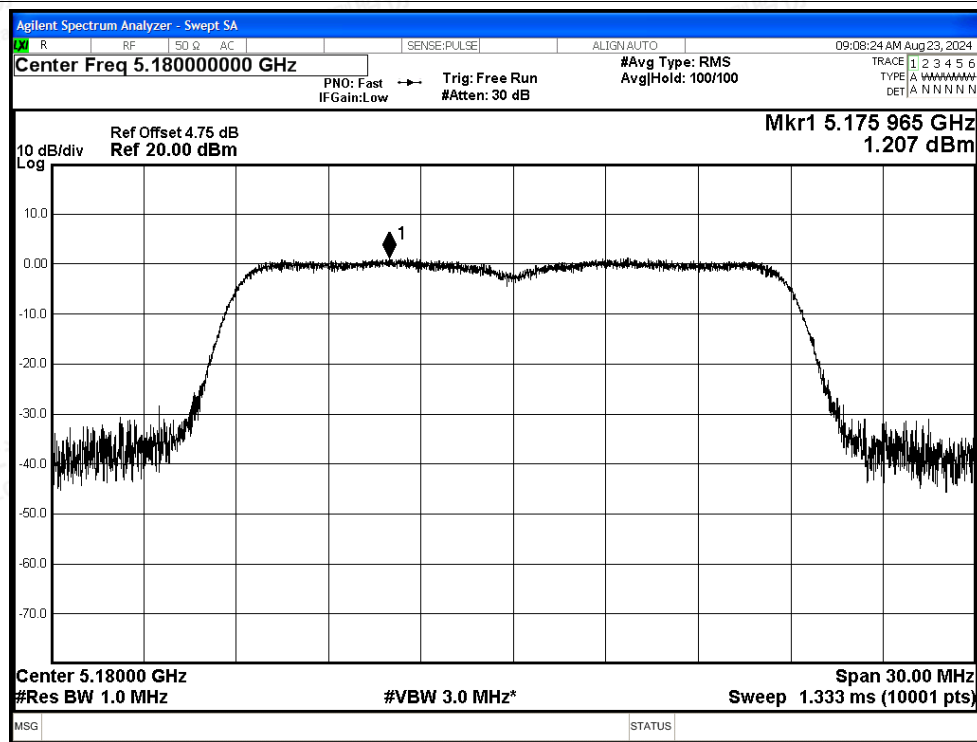




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

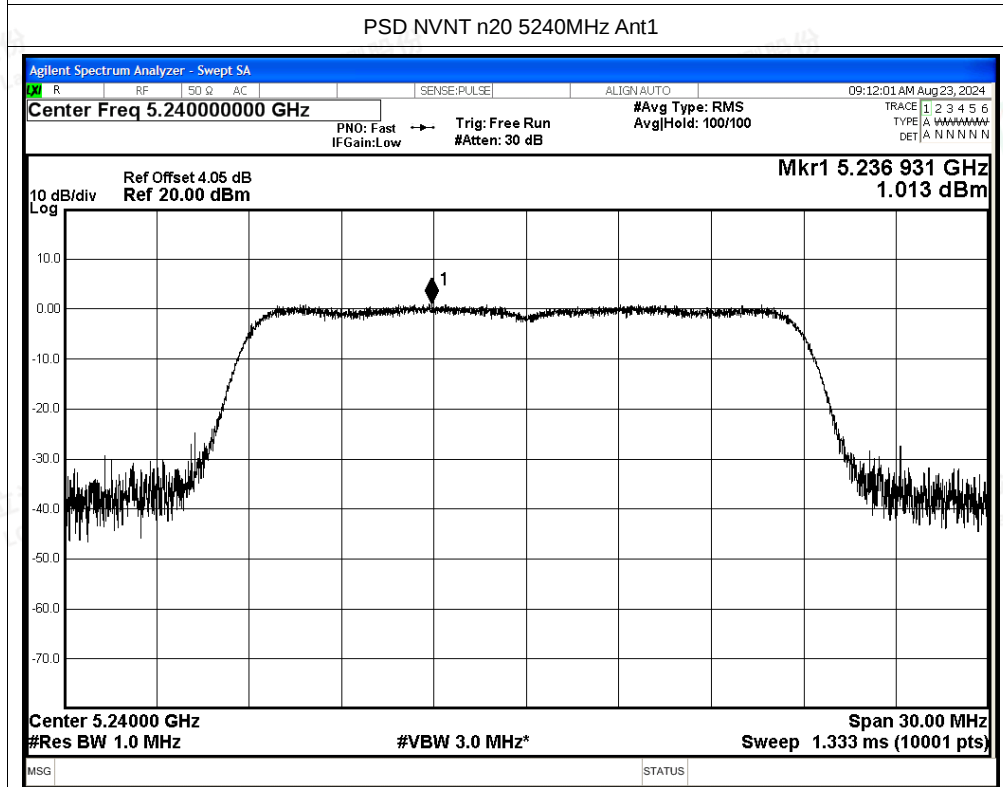
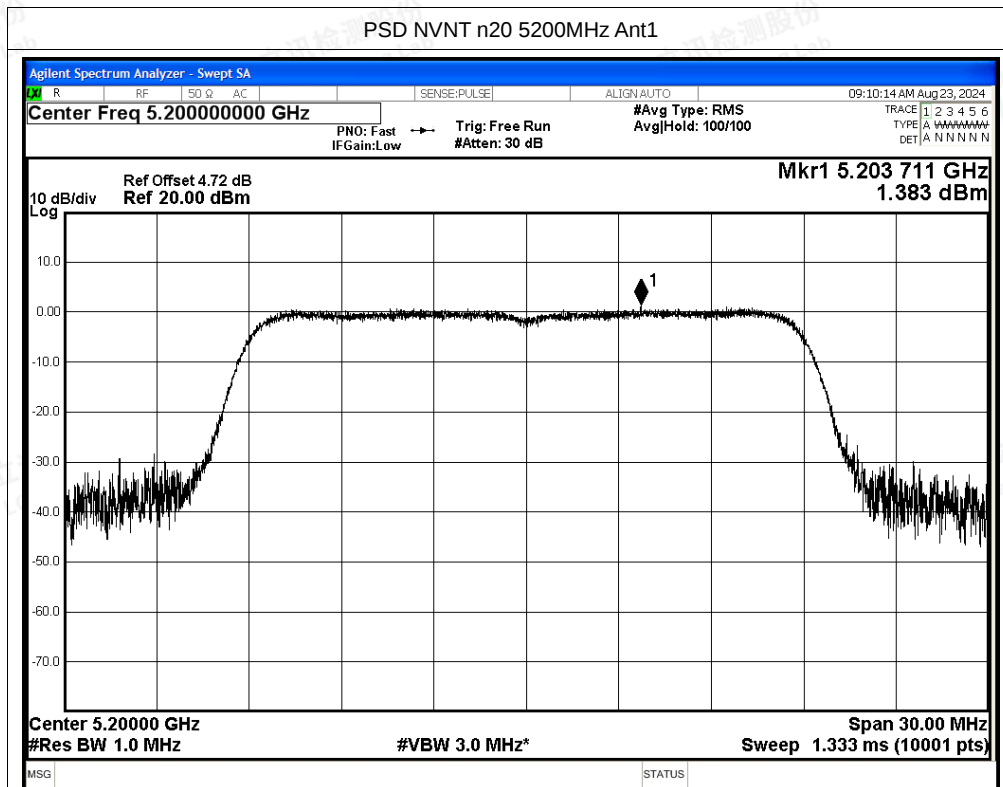


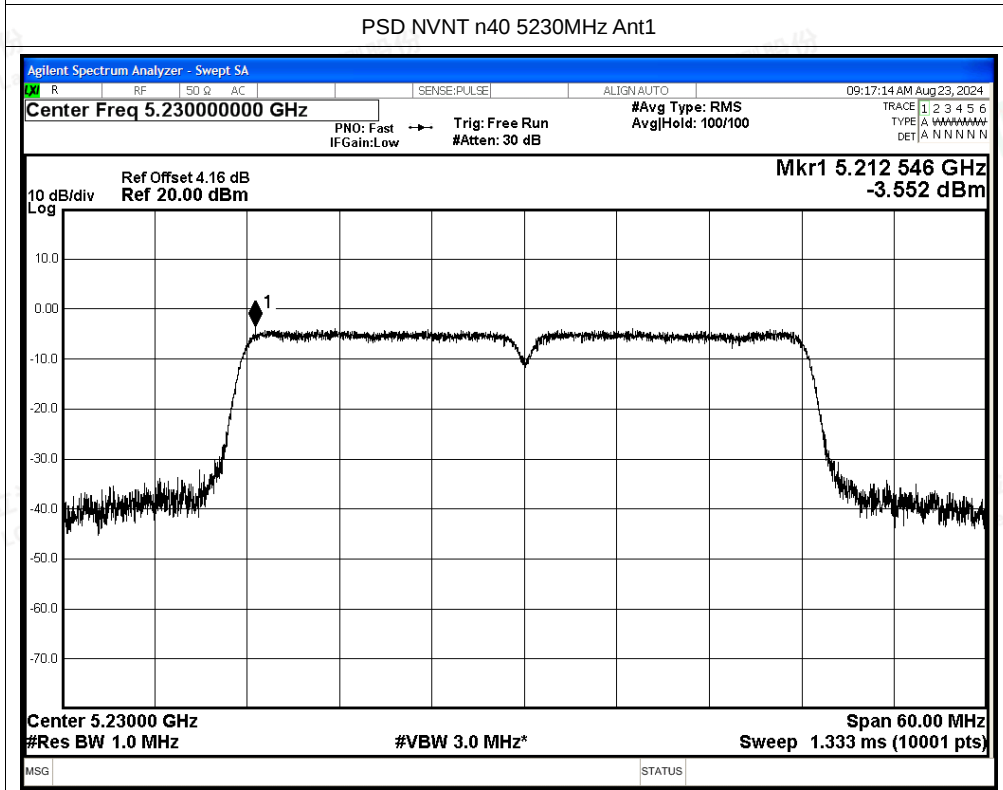
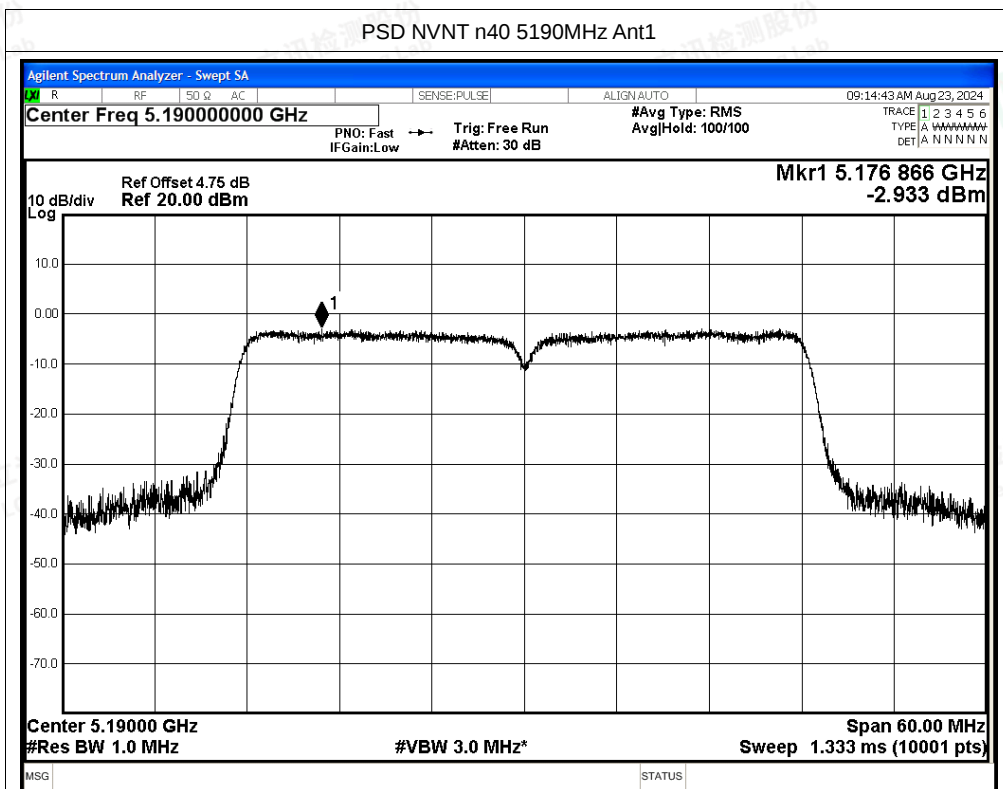
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

Scan code to check authenticity







C.4 Restrict Band

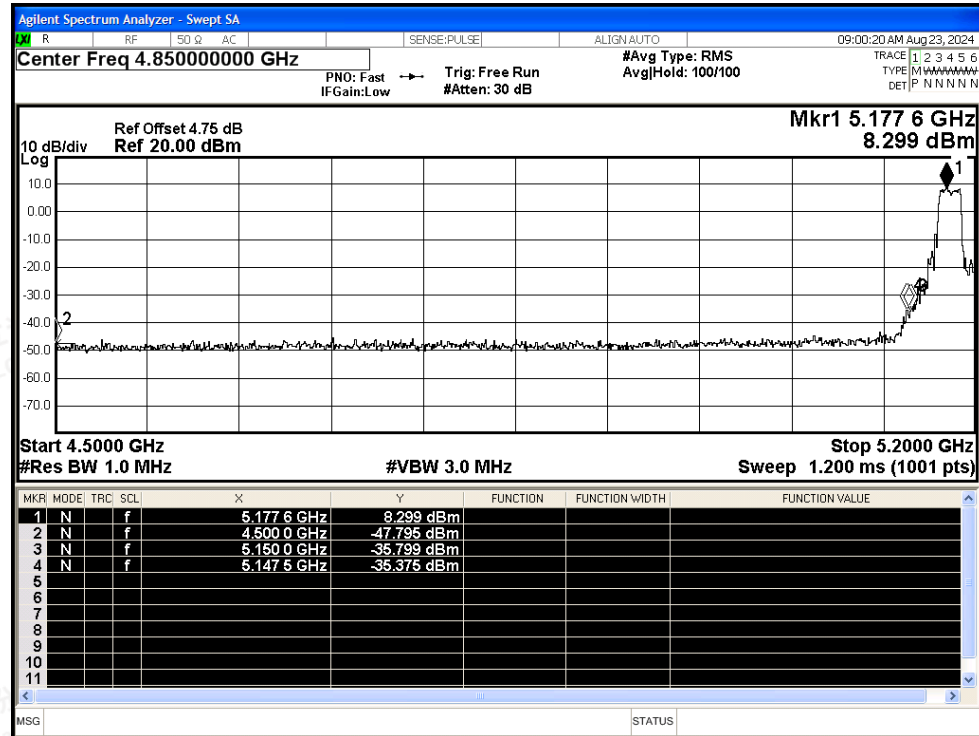
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-47.8	4.05	-	51.48	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-56.53	4.05	0.51	43.26	Average	54	Pass
NVNT	a	5180	Ant1	5147.5	-35.38	4.05	-	63.90	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.9	-50.69	4.05	0.51	49.10	Average	54	Pass
NVNT	a	5180	Ant1	5150	-35.8	4.05	-	63.48	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-49.69	4.05	0.51	50.10	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.2	4.05	-	51.08	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.05	4.05	0.5	42.73	Average	54	Pass
NVNT	a	5240	Ant1	5357.76	-45.98	4.05	-	53.30	Peak	68.2	Pass
NVNT	a	5240	Ant1	5369.76	-56.15	4.05	0.5	43.63	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.7	4.05	-	49.58	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.36	4.05	0.5	42.42	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.55	4.05	-	49.73	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.4	4.05	0.55	42.43	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-36.36	4.05	-	62.92	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-50.65	4.05	0.55	49.18	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-33.15	4.05	-	66.13	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-49.41	4.05	0.55	50.42	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.97	4.05	-	50.31	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.24	4.05	0.55	42.59	Average	54	Pass
NVNT	n20	5240	Ant1	5374.56	-43.99	4.05	-	55.29	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5353.92	-56.06	4.05	0.55	43.77	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.04	4.05	-	51.24	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.93	4.05	0.55	42.90	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.88	4.05	-	50.40	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.06	4.05	0.98	43.20	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-38.5	4.05	-	60.78	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-49.99	4.05	0.98	50.27	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-38.5	4.05	-	60.78	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-49.99	4.05	0.98	50.27	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.01	4.05	-	50.27	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.72	4.05	0.98	43.54	Average	54	Pass
NVNT	n40	5230	Ant1	5384.13	-45.78	4.05	-	53.50	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5395.74	-56.17	4.05	0.98	44.09	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.46	4.05	-	49.82	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.17	4.05	0.98	43.09	Average	54	Pass



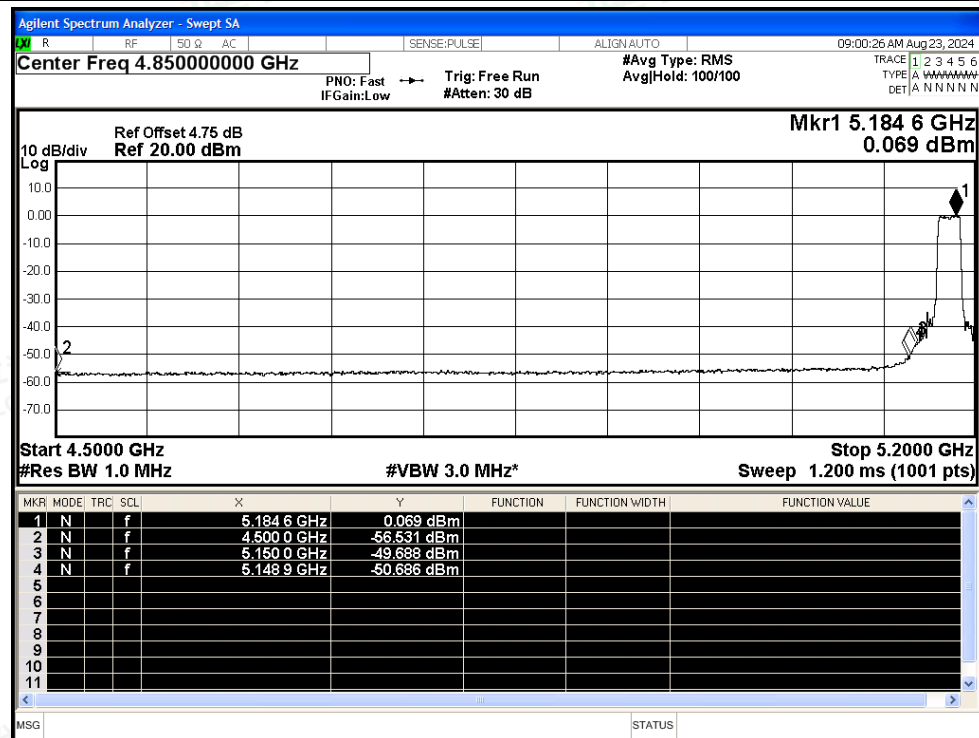


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

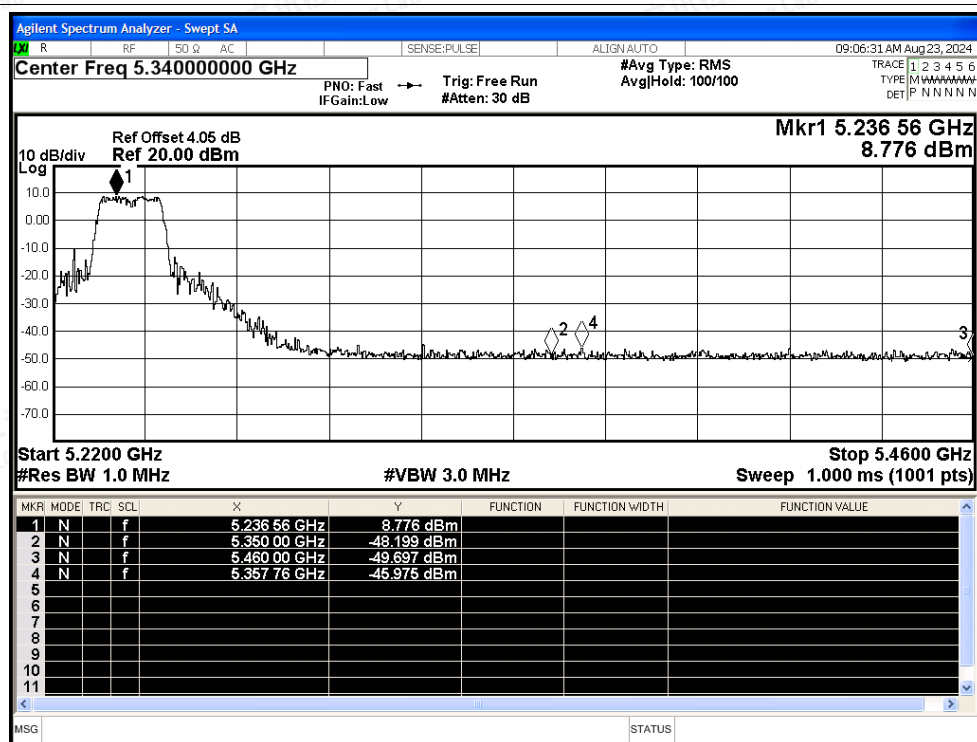
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

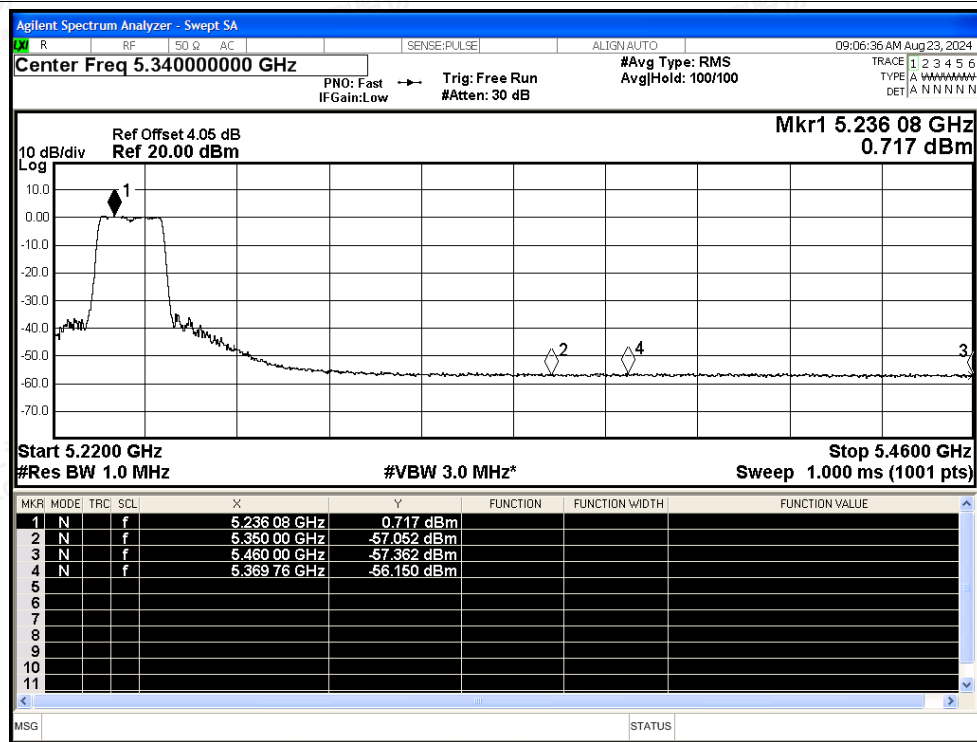
Scan code to check authenticity



Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

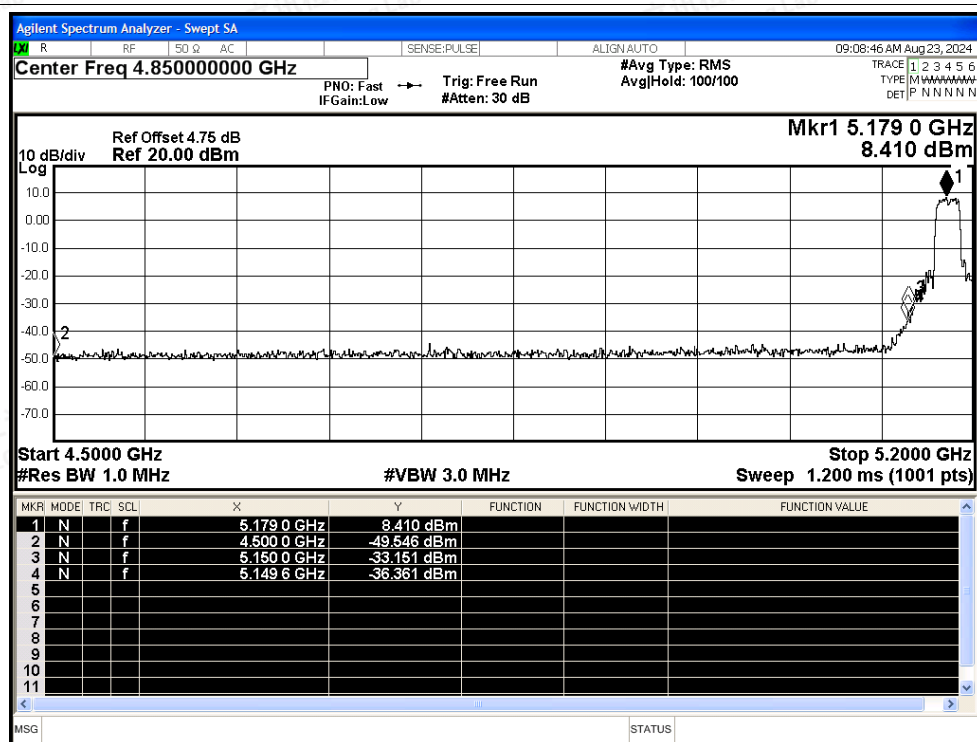
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

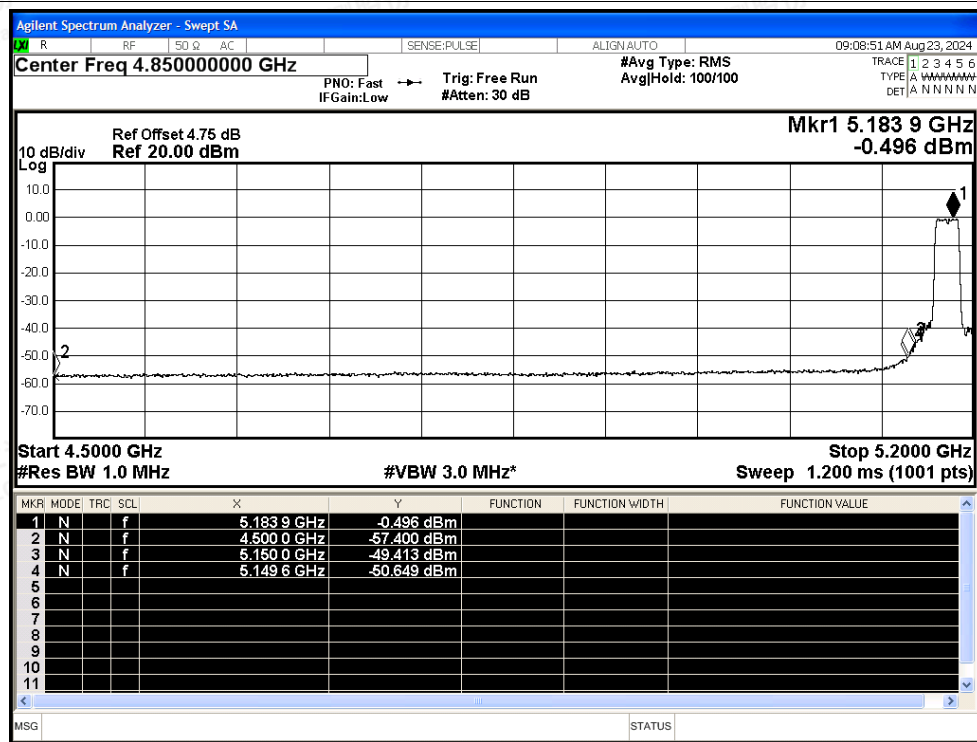
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

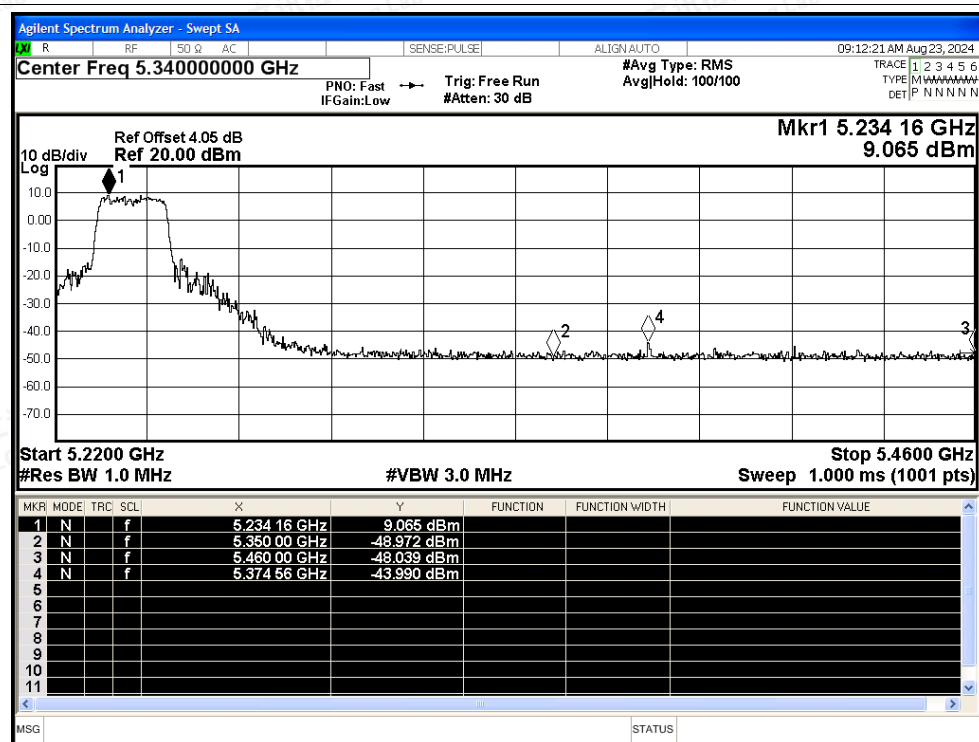
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

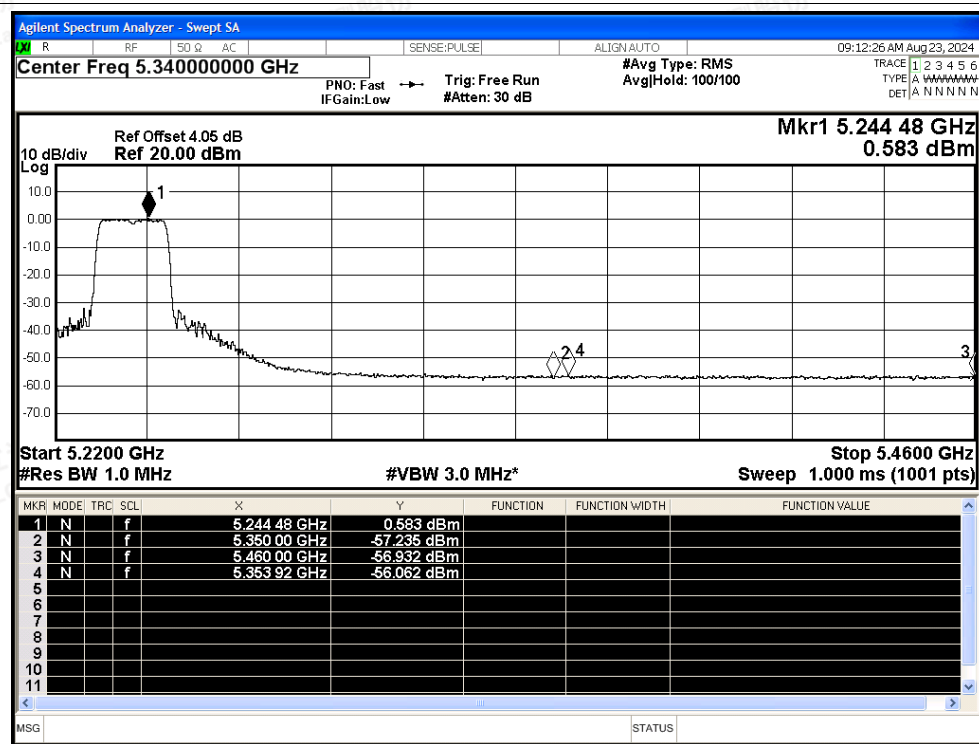
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

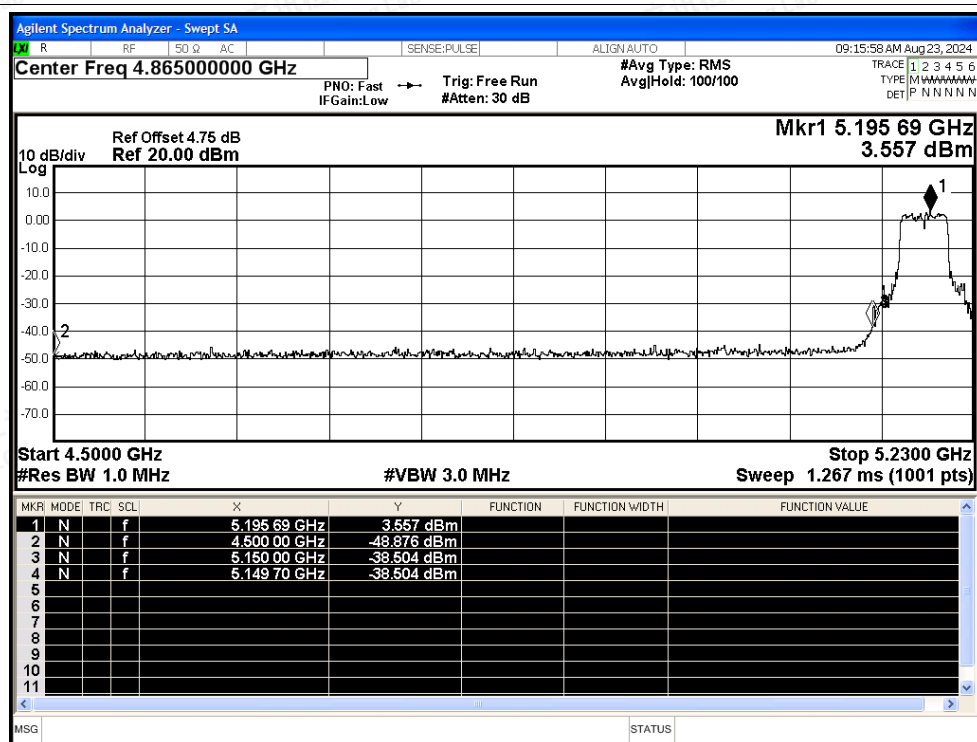
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

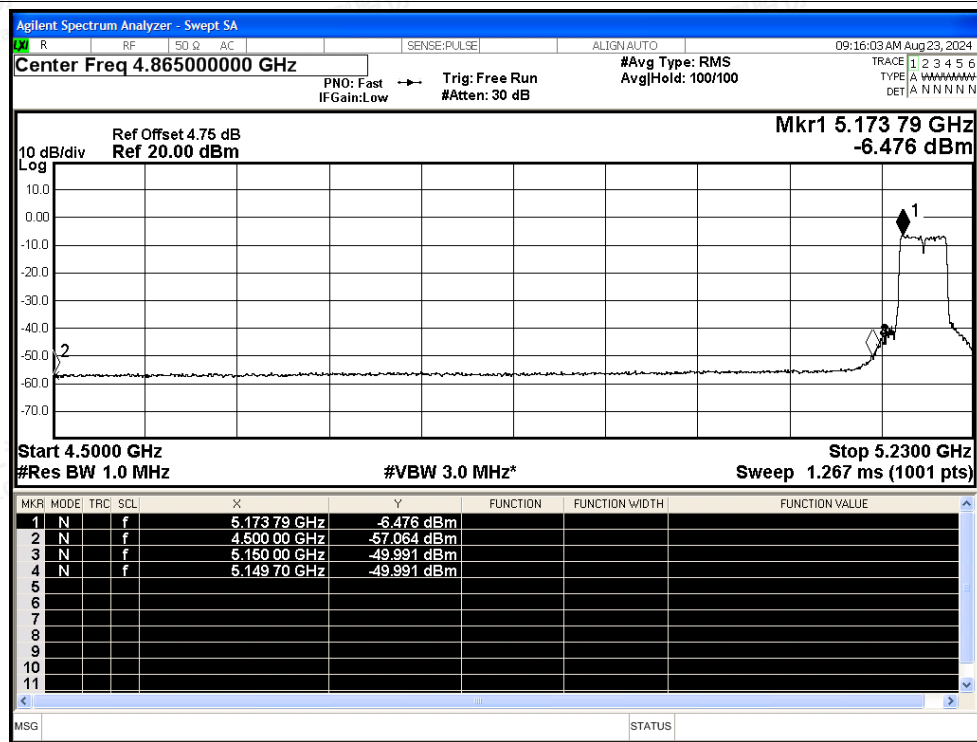
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

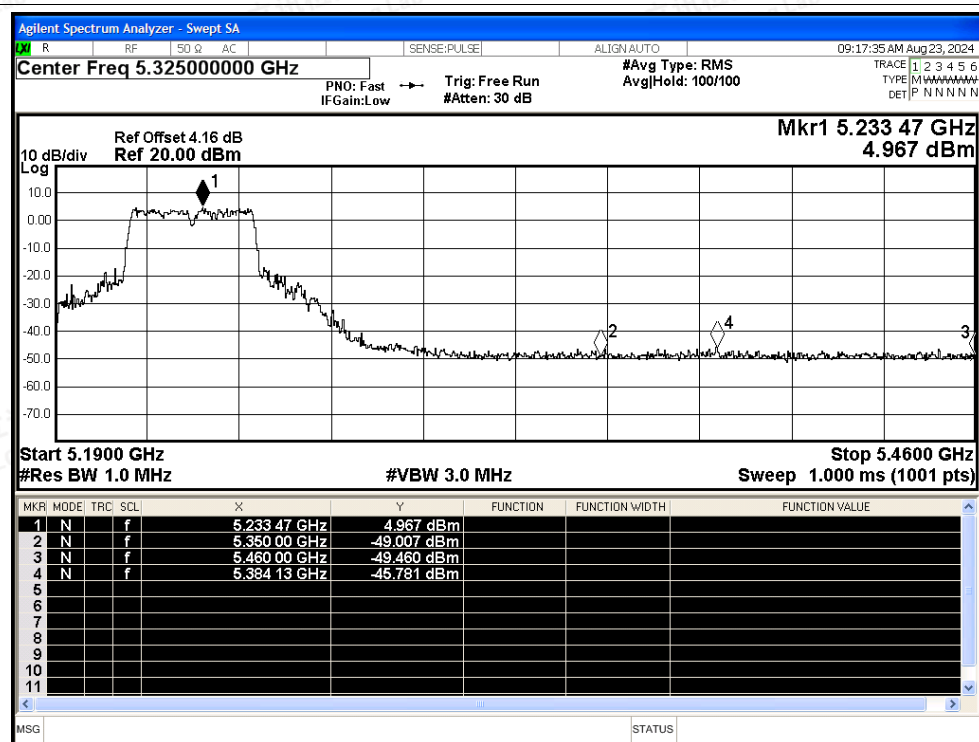
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

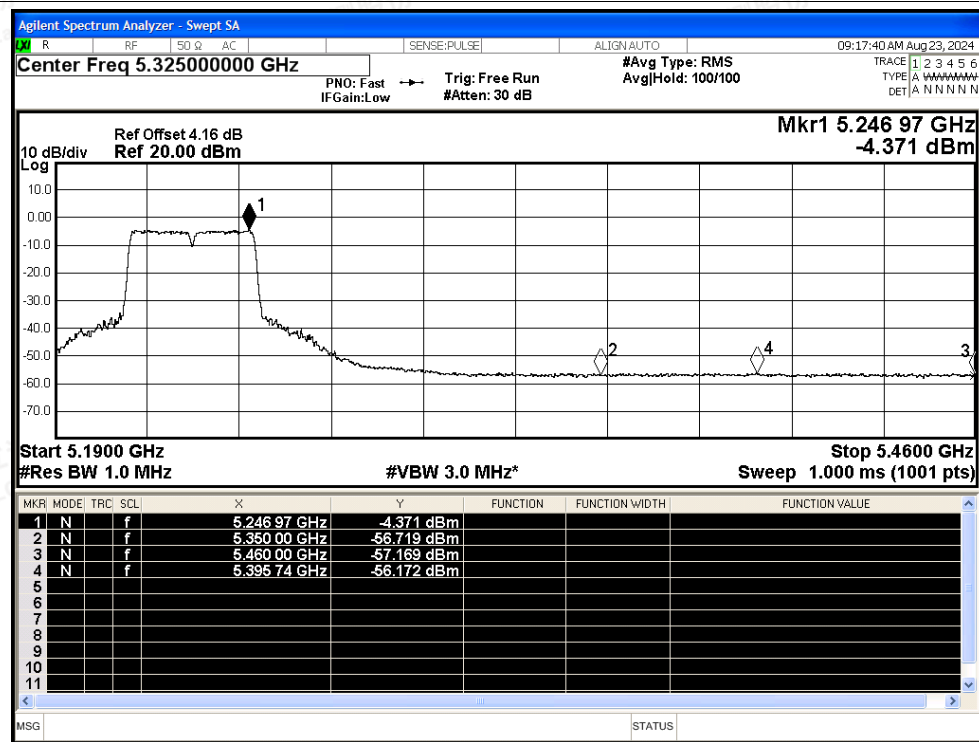
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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



C.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass

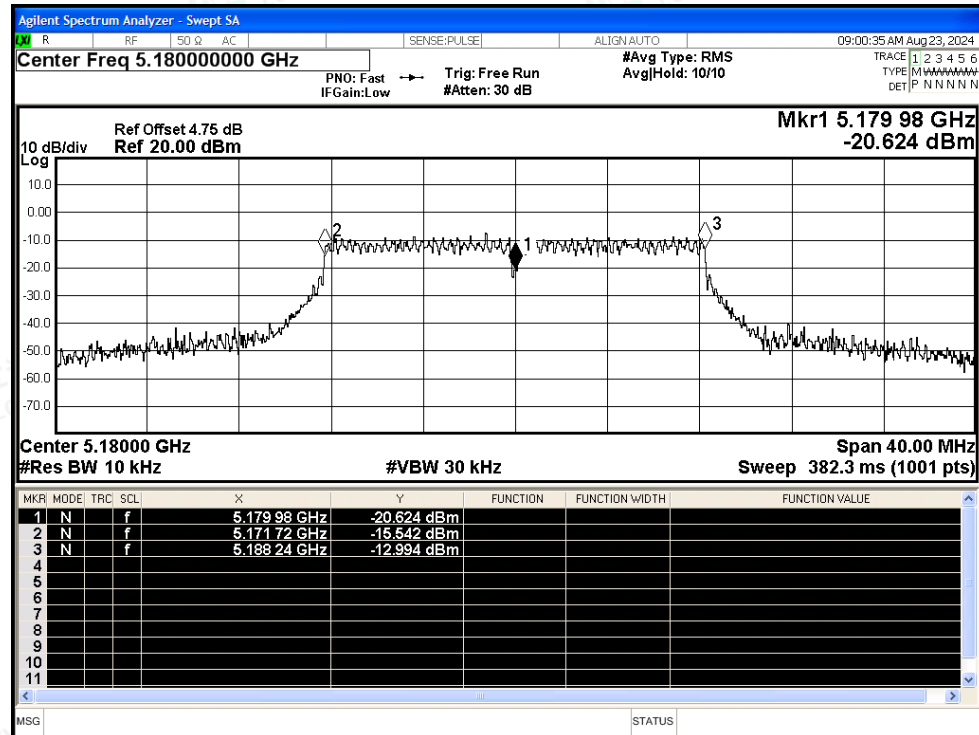


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

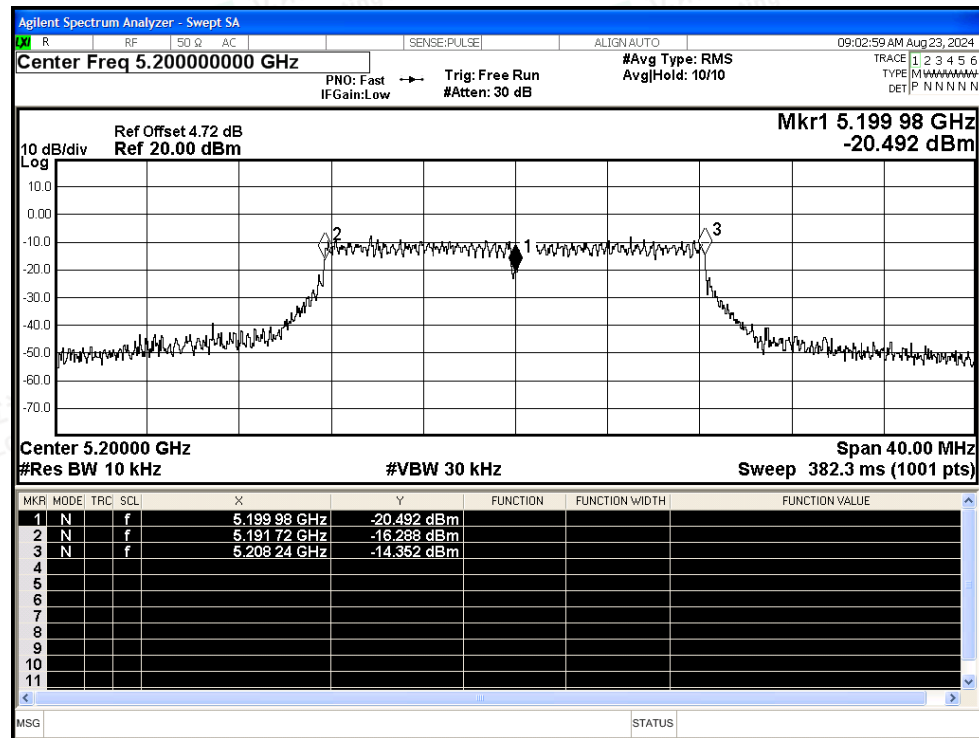


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1

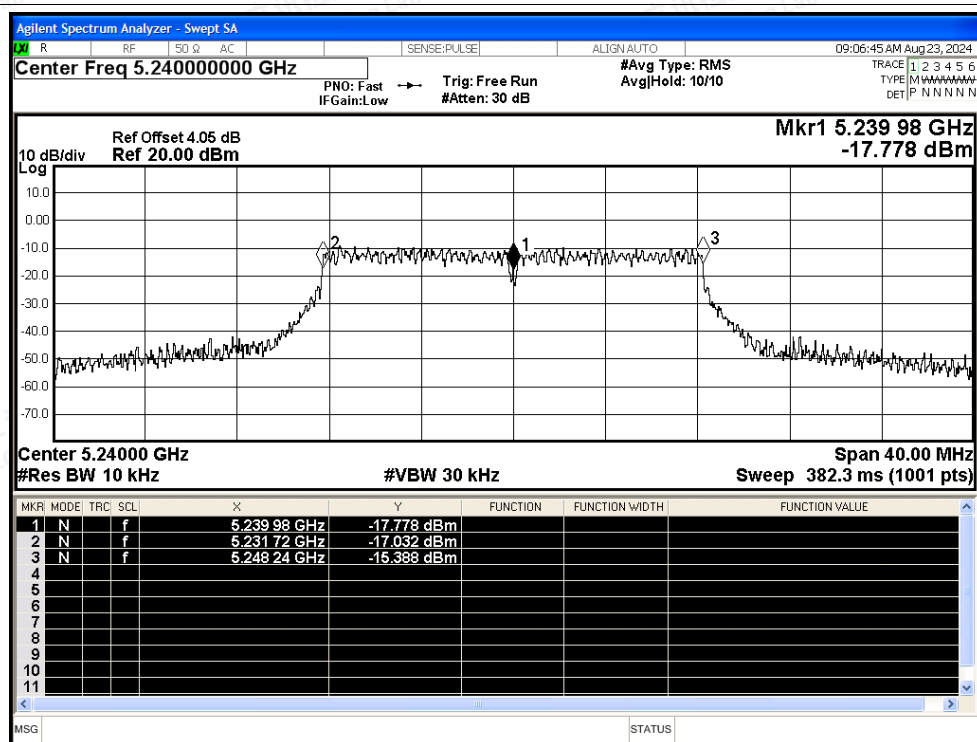


Freq. Stability NVNT a 5200MHz Ant1

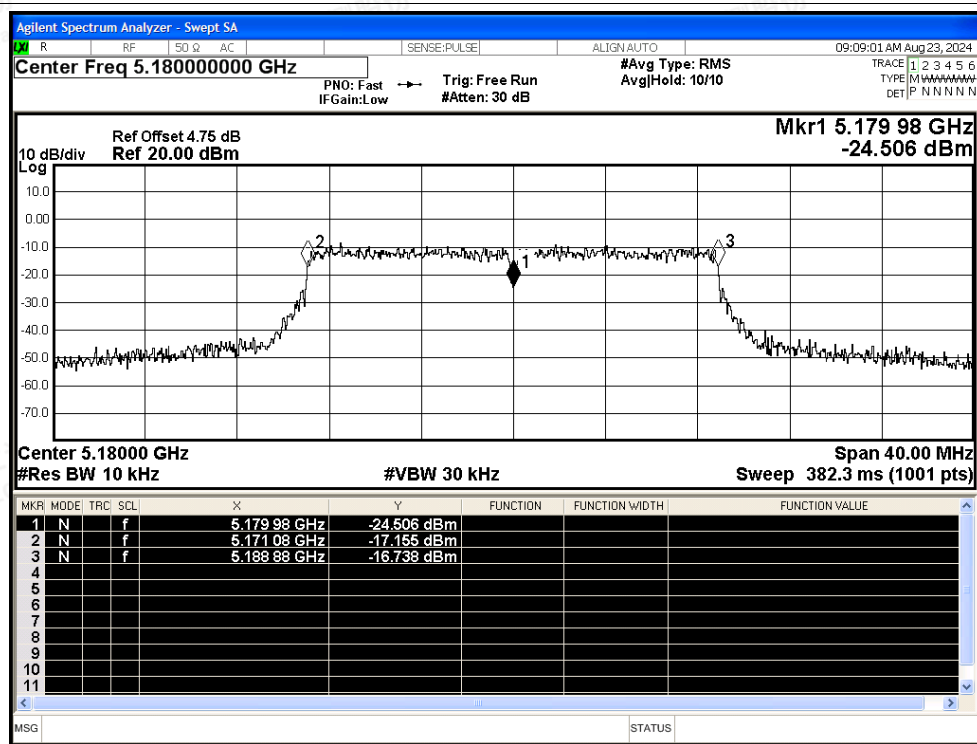




Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

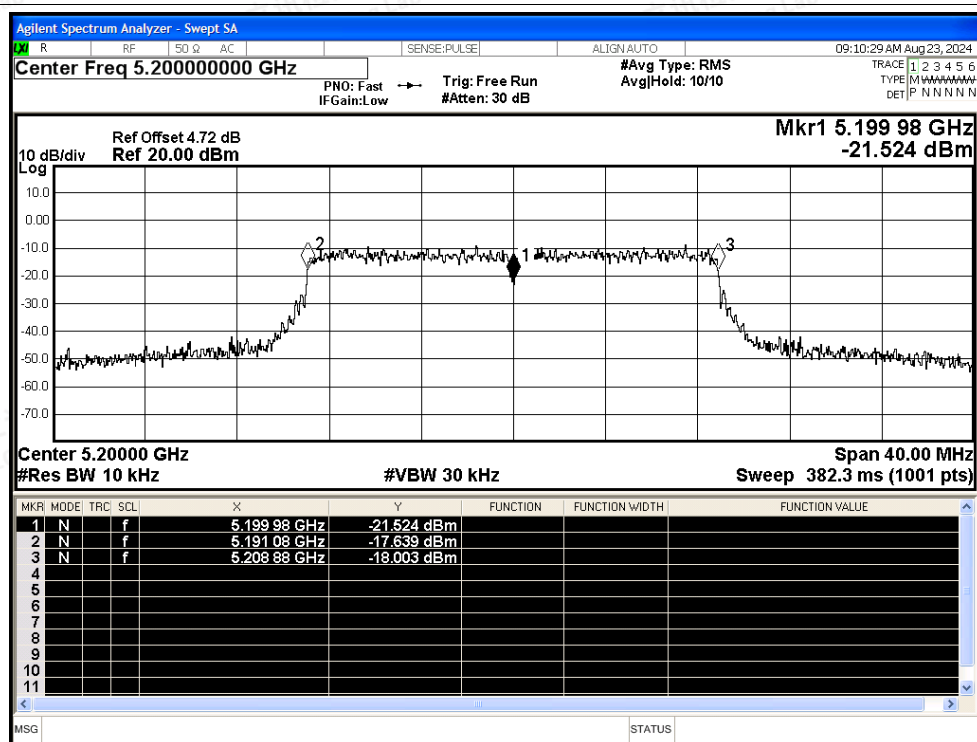
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

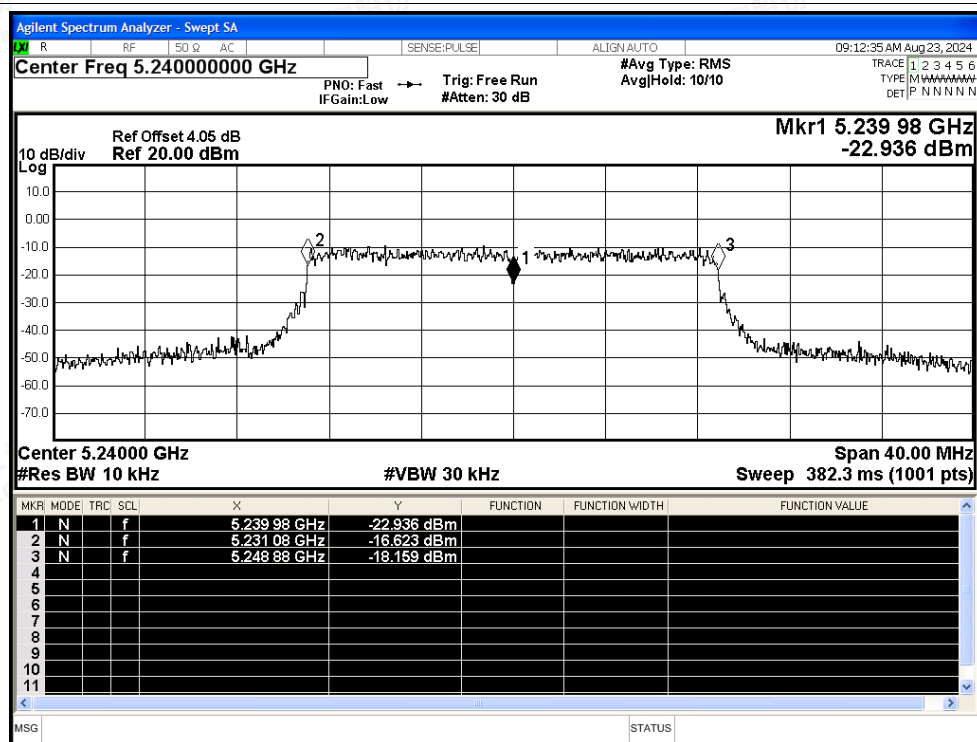
Scan code to check authenticity



Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

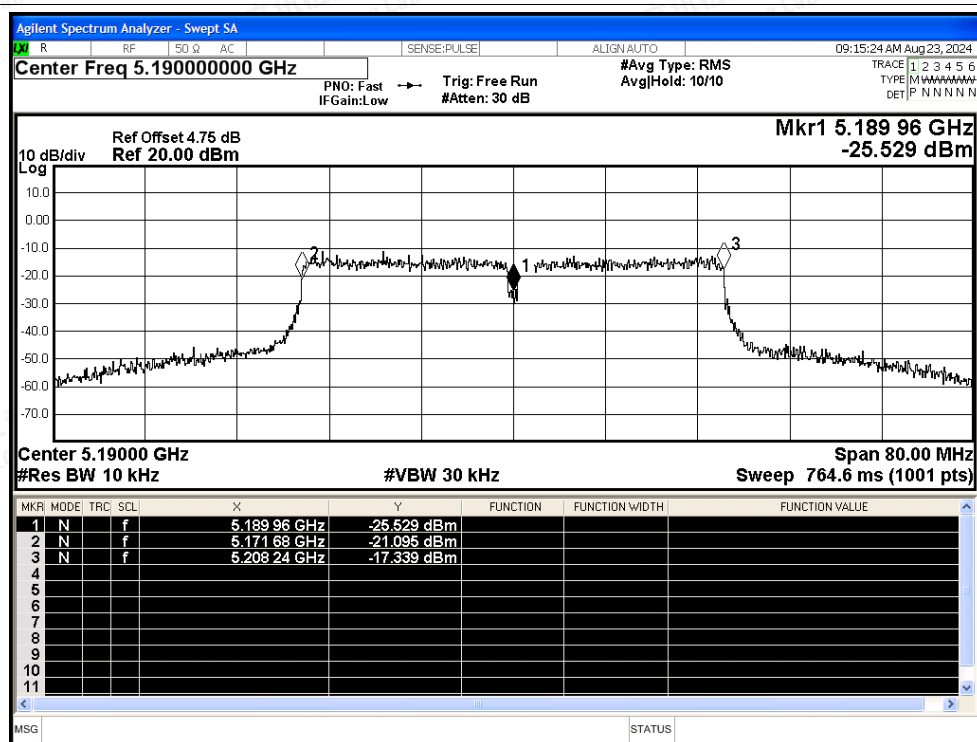
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

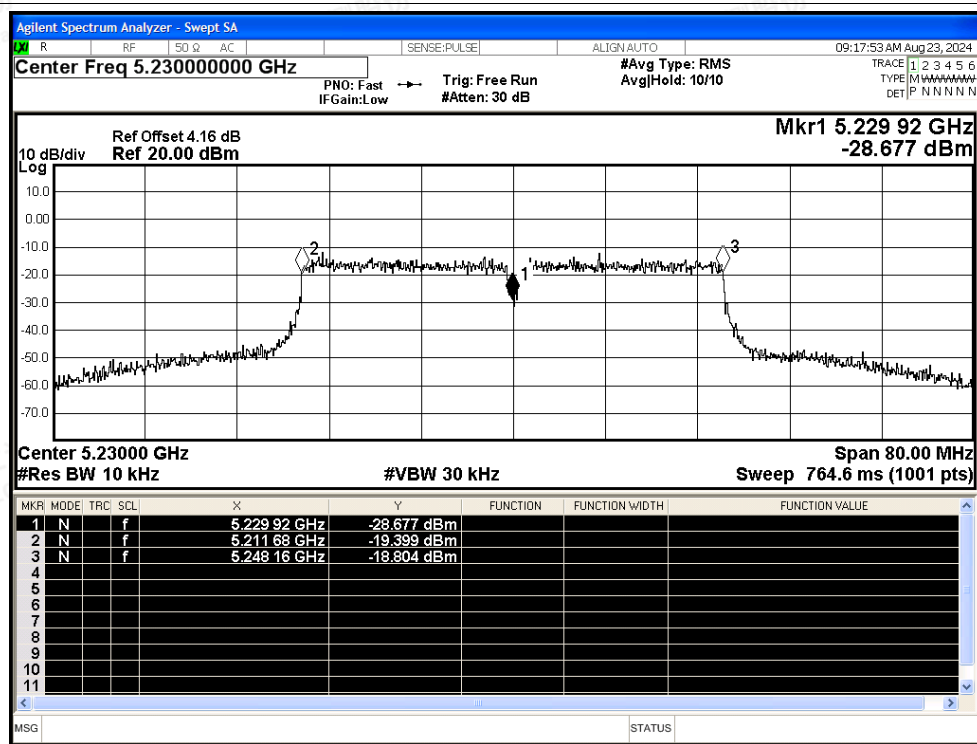
Scan code to check authenticity



Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz 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

Scan code to check authenticity



C.6 Duty Cycle

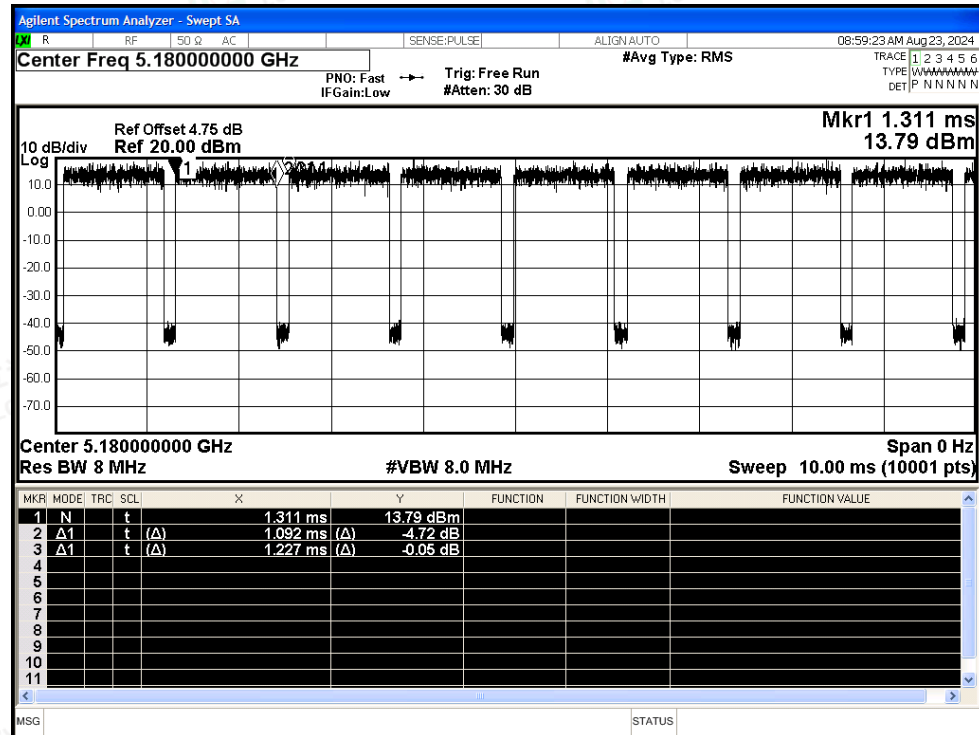
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	89	0.51	0.92
NVNT	a	5200	Ant1	89.74	0.47	0.91
NVNT	a	5240	Ant1	89.08	0.5	0.91
NVNT	n20	5180	Ant1	88.11	0.55	1.08
NVNT	n20	5200	Ant1	87.26	0.59	1.08
NVNT	n20	5240	Ant1	88.11	0.55	1.08
NVNT	n40	5190	Ant1	79.89	0.98	1.75
NVNT	n40	5230	Ant1	79.89	0.98	1.75



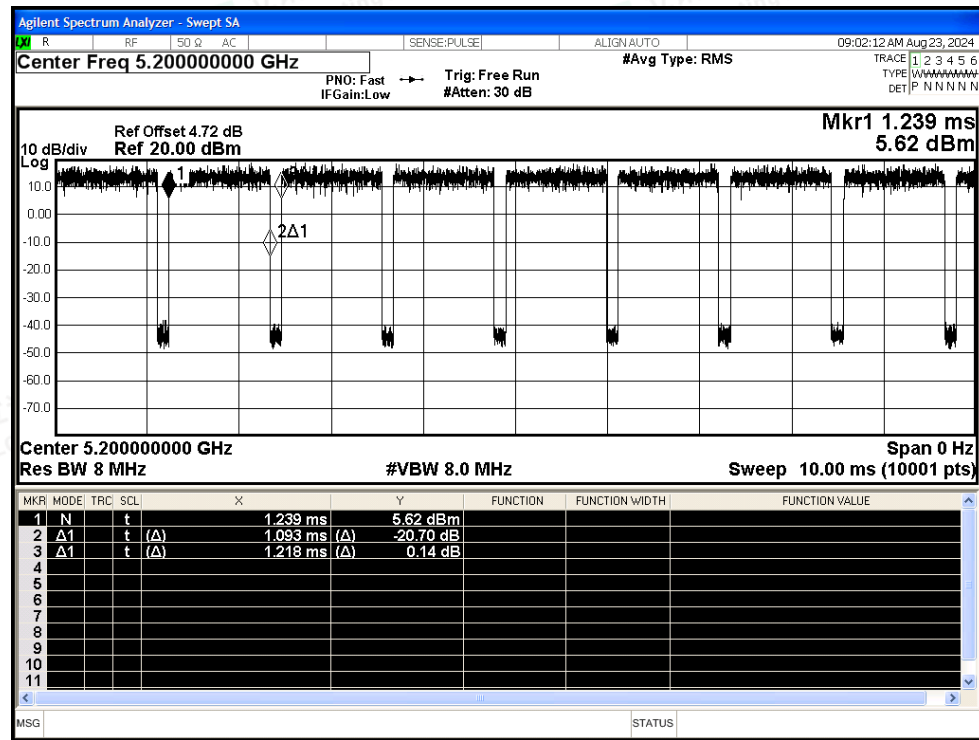


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

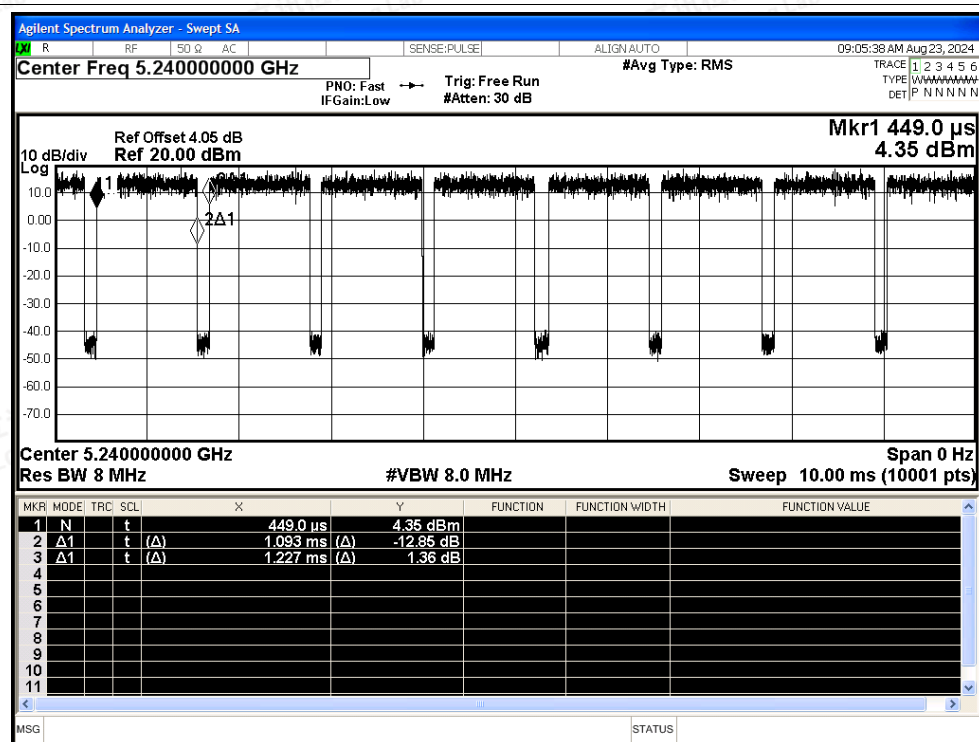
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

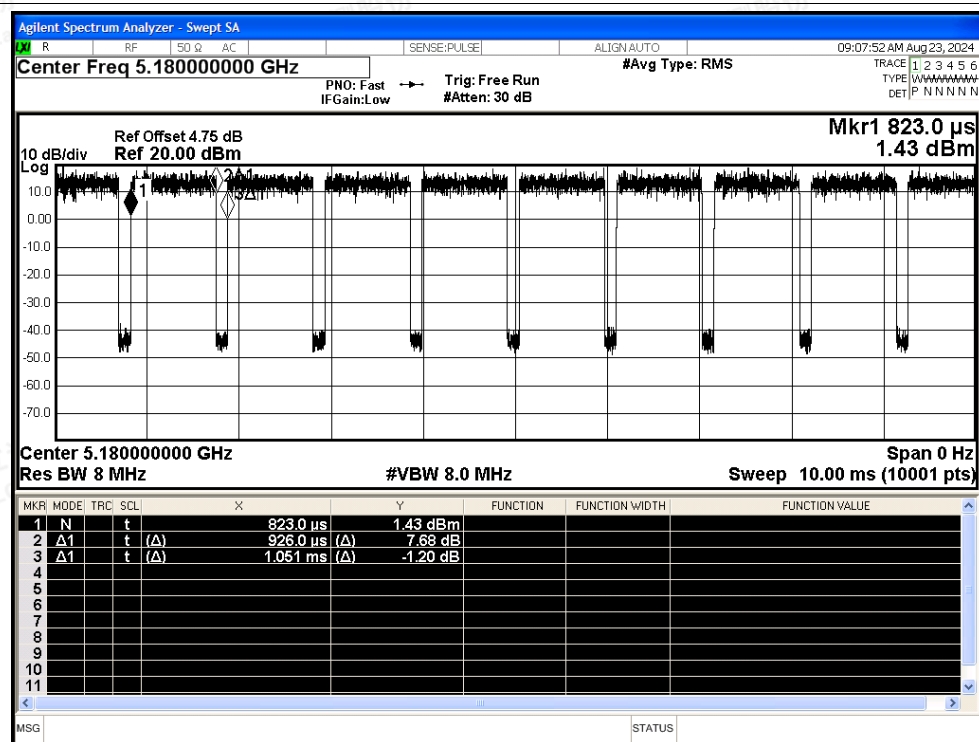
Scan code to check authenticity



Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

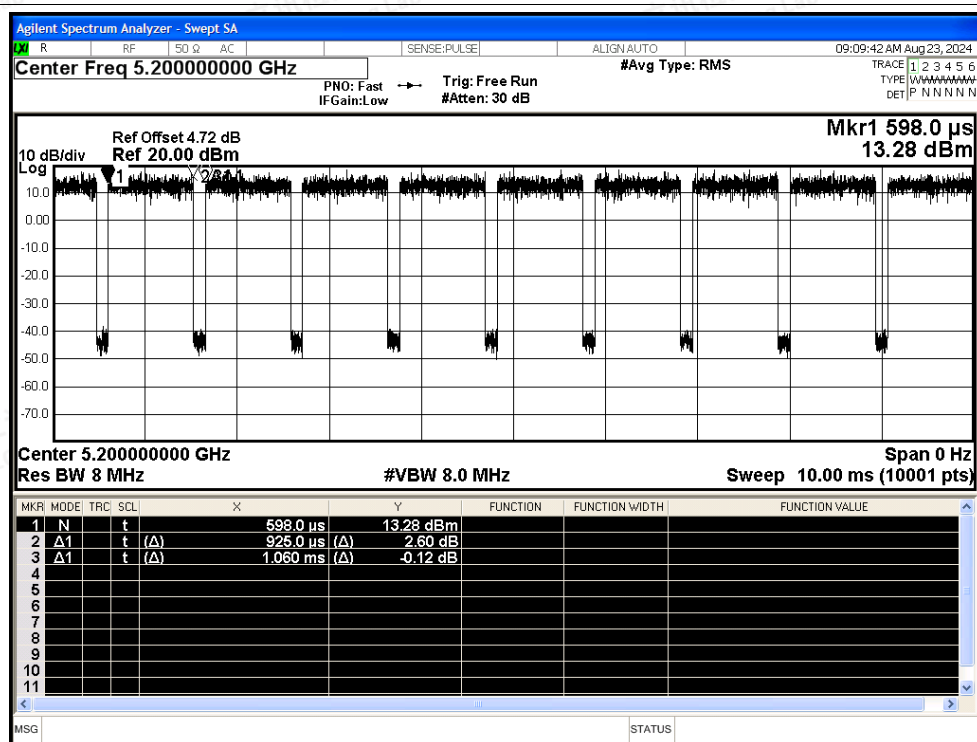
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

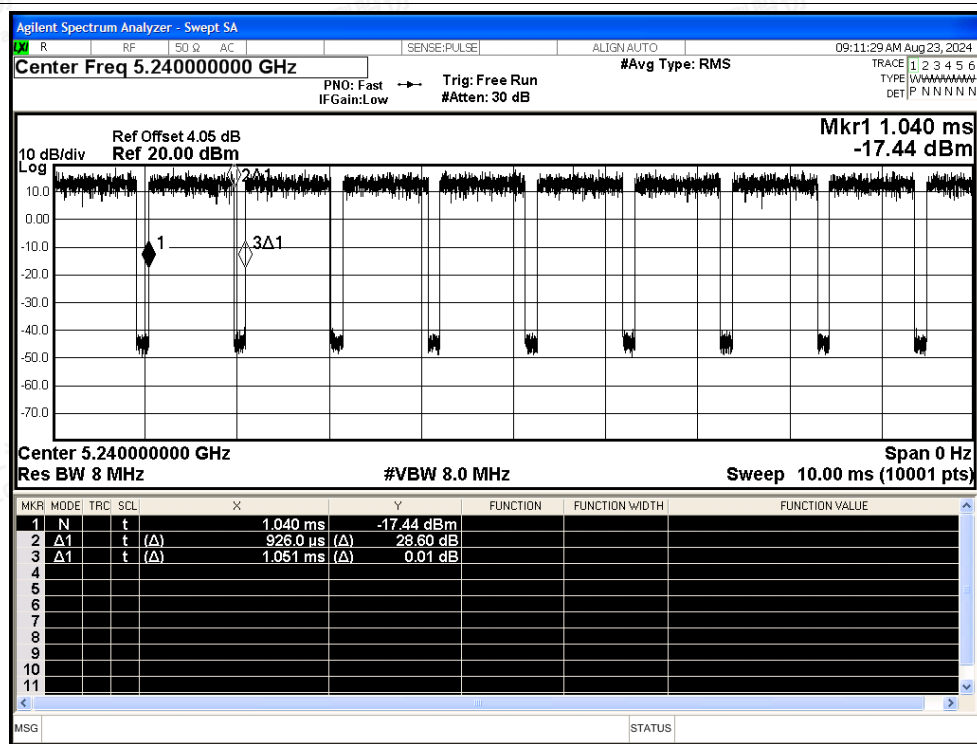
Scan code to check authenticity



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

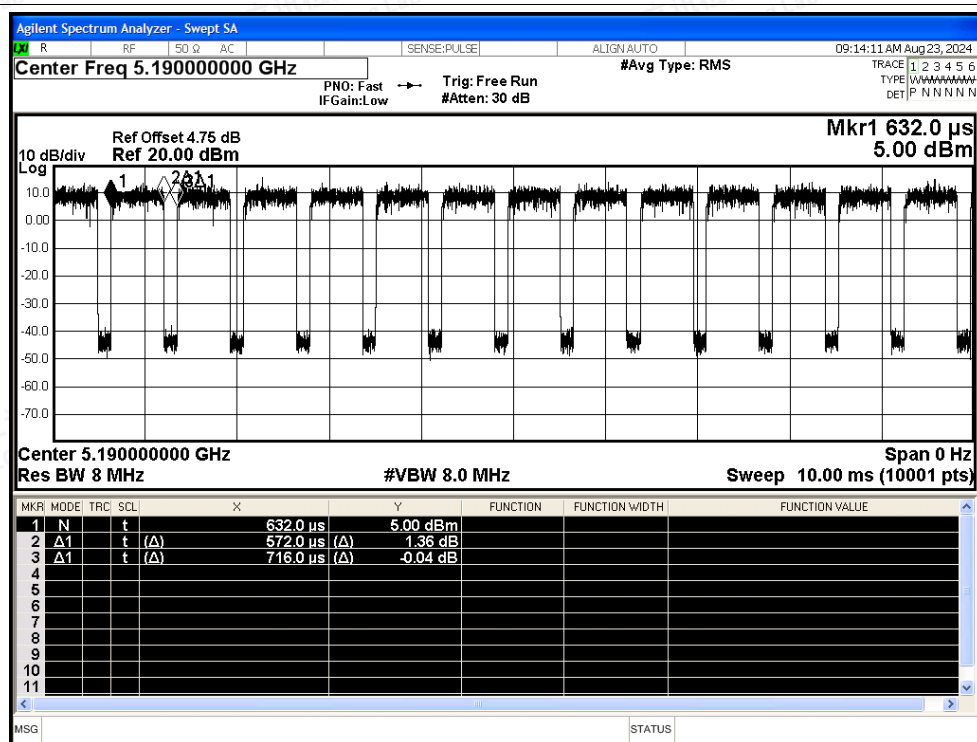
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

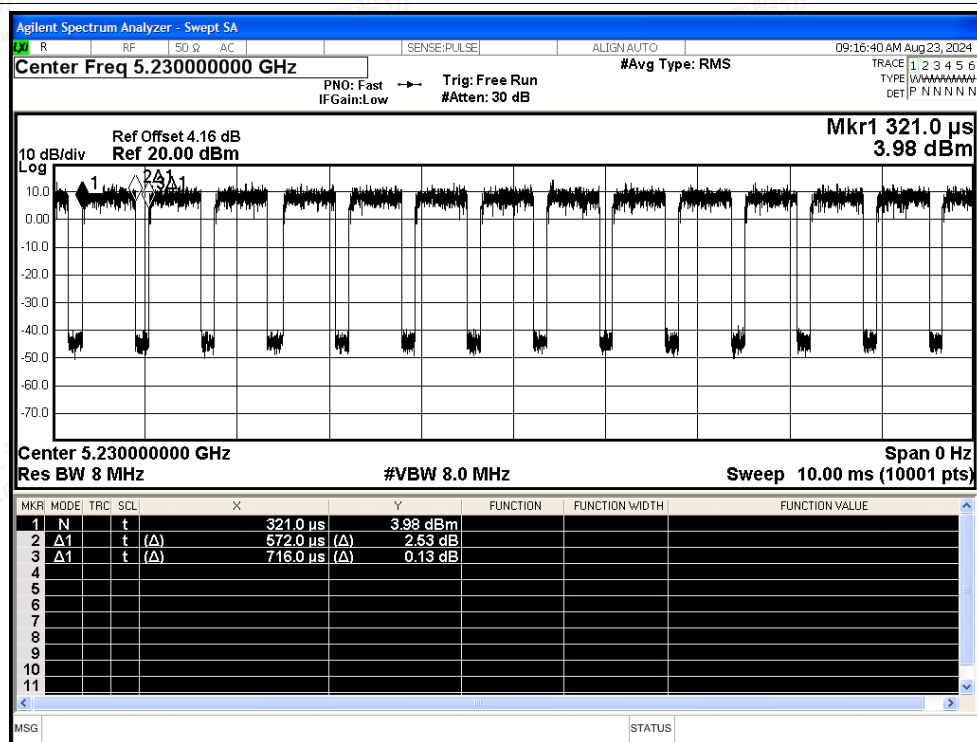
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz 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

Scan code to check authenticity