



## Appendix D

### RF Test Data for 5.2G 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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### D.1 26dB Bandwidth

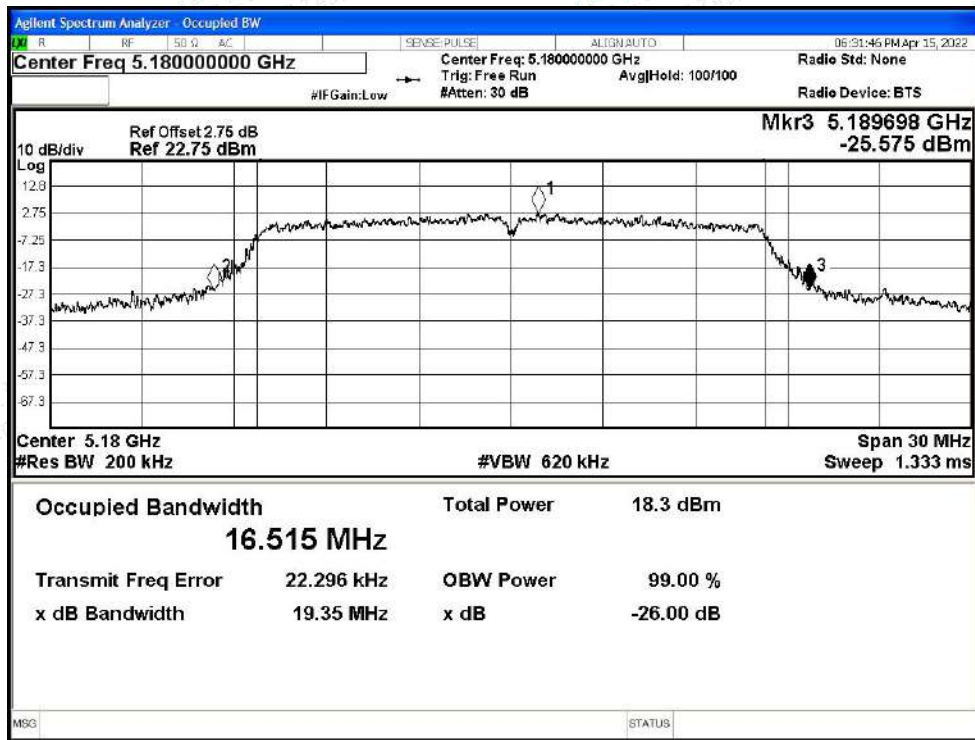
Condition	Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Limit 26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.352	0.5	Pass
NVNT	a	5200	Ant1	19.833	0.5	Pass
NVNT	a	5240	Ant1	19.821	0.5	Pass
NVNT	n20	5180	Ant1	20.155	0.5	Pass
NVNT	n20	5200	Ant1	19.65	0.5	Pass
NVNT	n20	5240	Ant1	19.732	0.5	Pass
NVNT	n40	5190	Ant1	57.603	0.5	Pass
NVNT	n40	5230	Ant1	58.151	0.5	Pass
NVNT	ac20	5180	Ant1	24.127	0.5	Pass
NVNT	ac20	5200	Ant1	21.414	0.5	Pass
NVNT	ac20	5240	Ant1	25.866	0.5	Pass
NVNT	ac40	5190	Ant1	58.79	0.5	Pass
NVNT	ac40	5230	Ant1	40.162	0.5	Pass



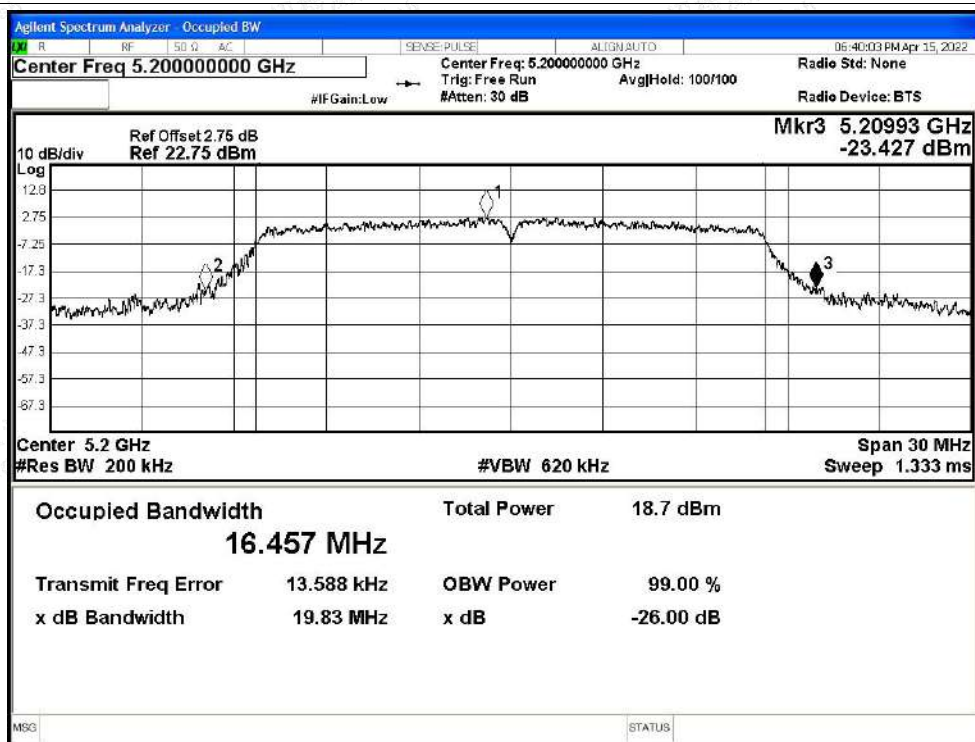


Test Graphs

26dB Bandwidth NVNT a 5180MHz Ant1



26dB Bandwidth NVNT a 5200MHz Ant1



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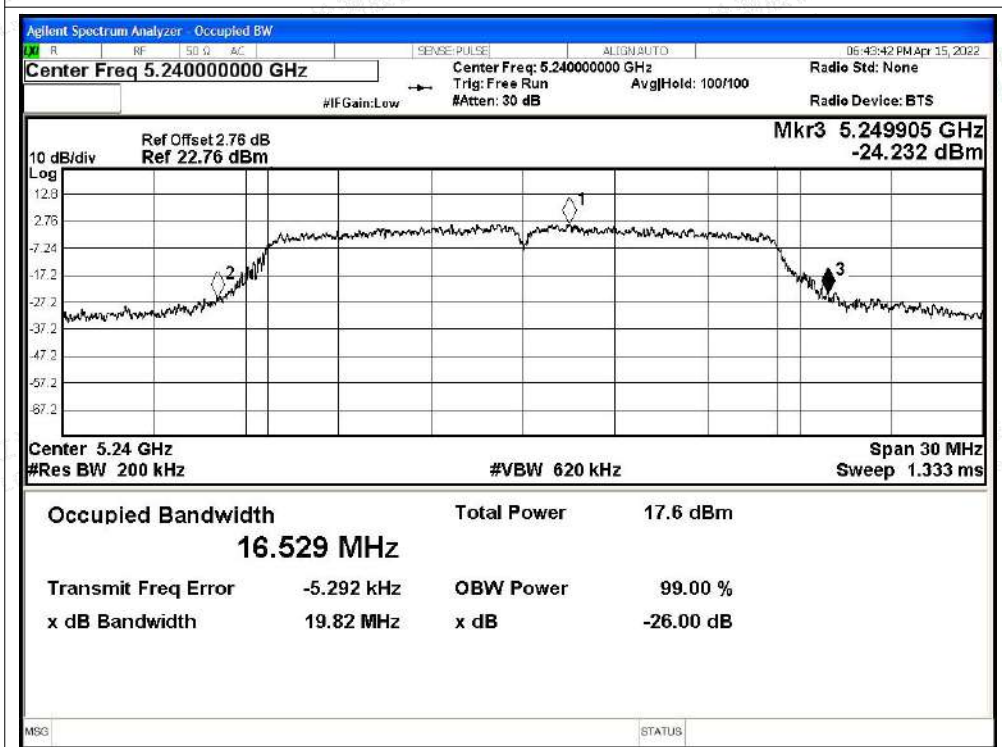
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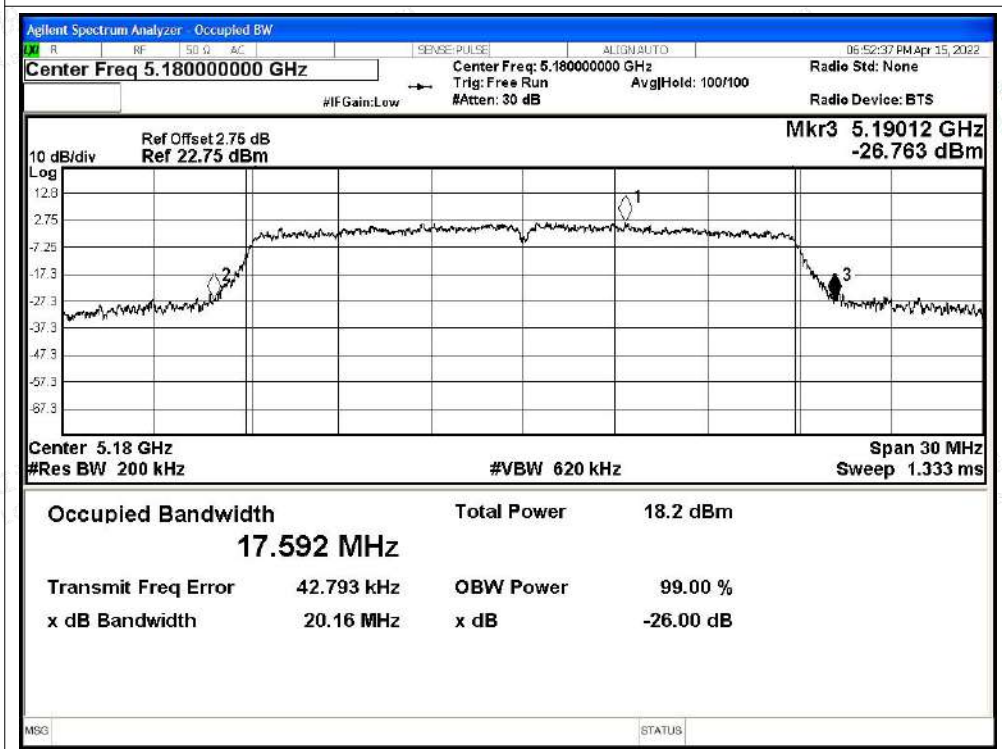
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26dB Bandwidth NVNT a 5240MHz Ant1



26dB Bandwidth NVNT n20 5180MHz Ant1



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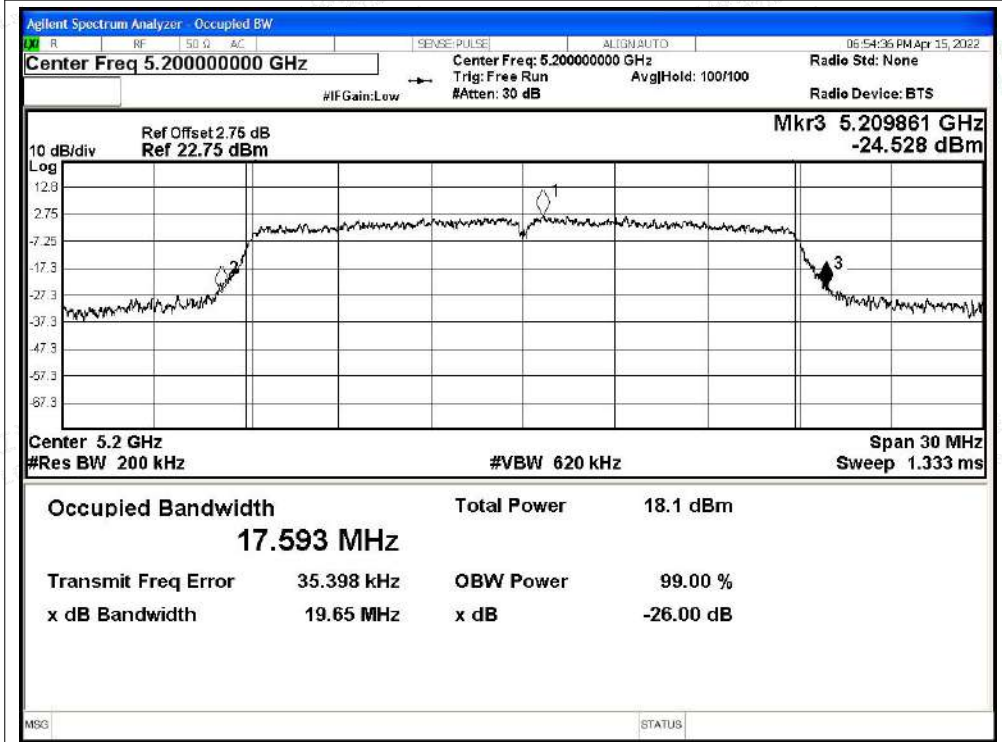
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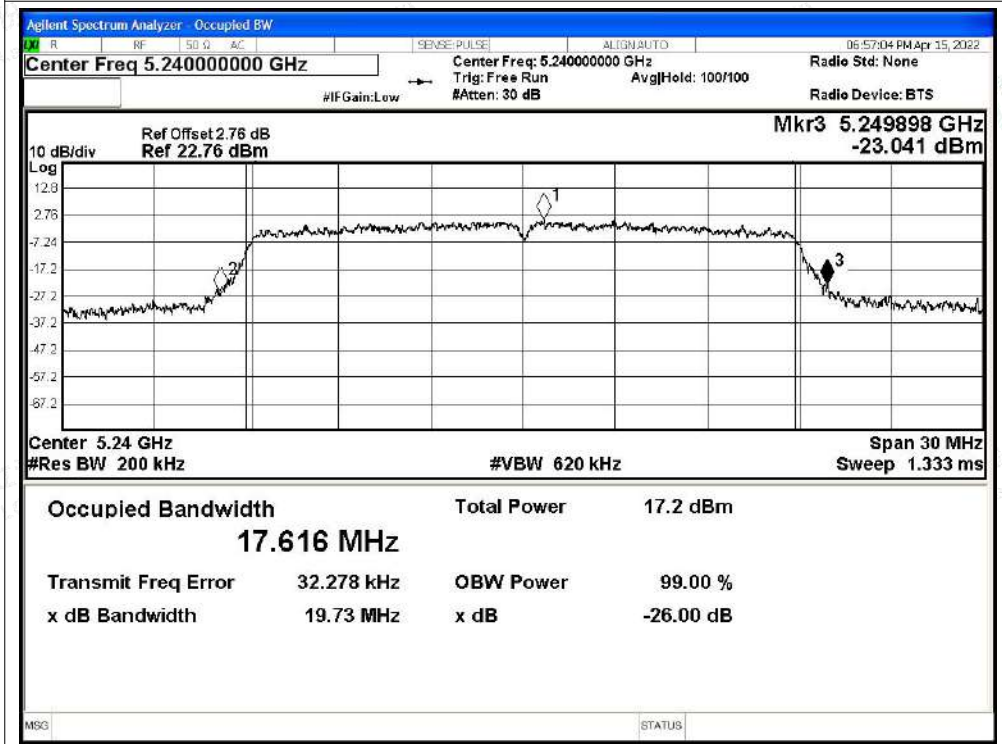
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26dB Bandwidth NVNT n20 5200MHz Ant1



26dB Bandwidth NVNT n20 5240MHz Ant1



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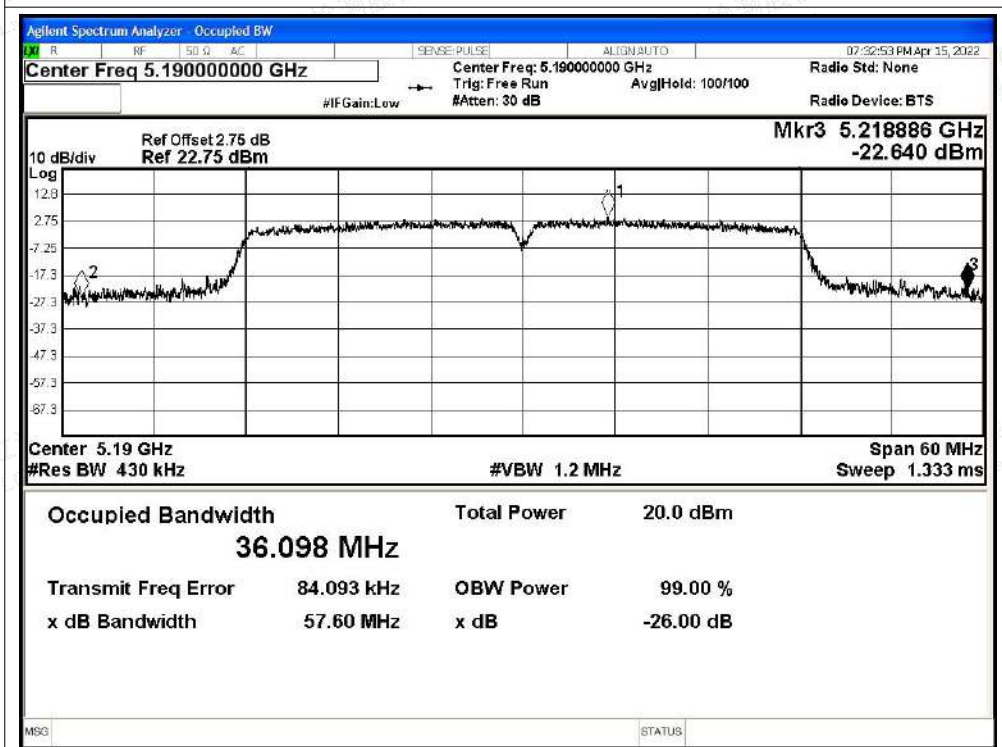
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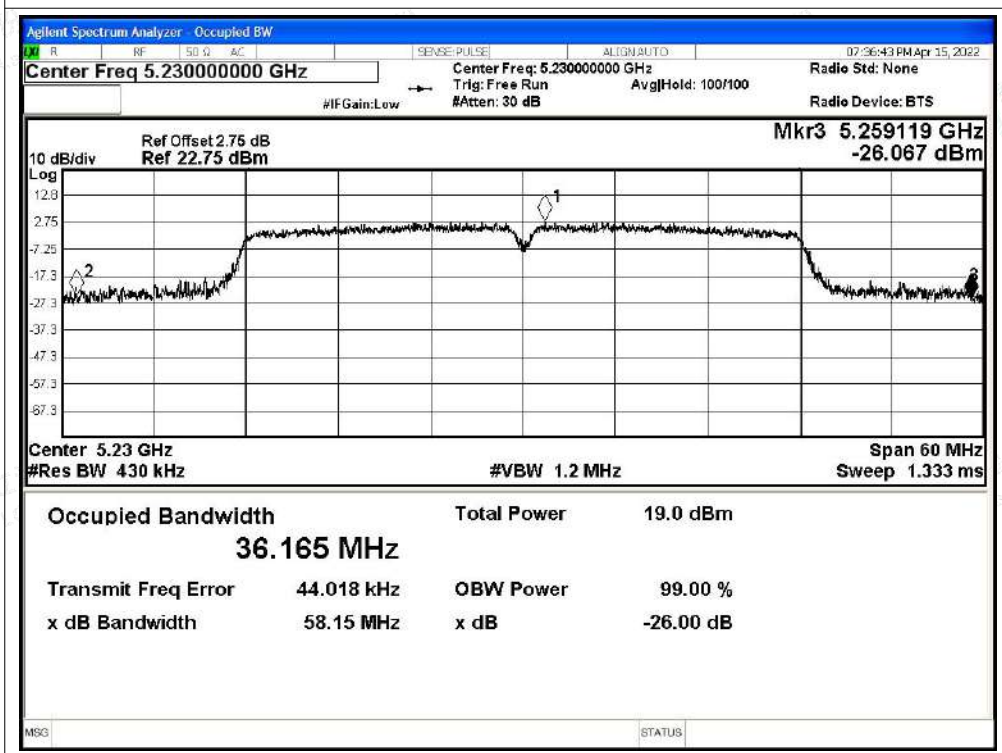
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26dB Bandwidth NVNT n40 5190MHz Ant1



26dB Bandwidth NVNT n40 5230MHz Ant1



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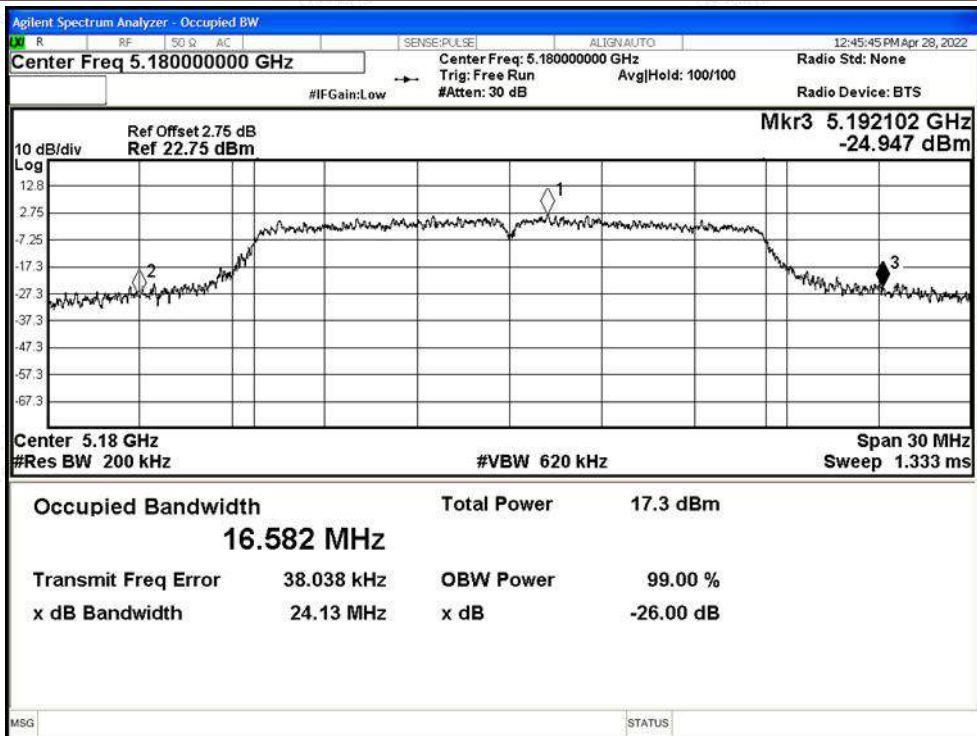
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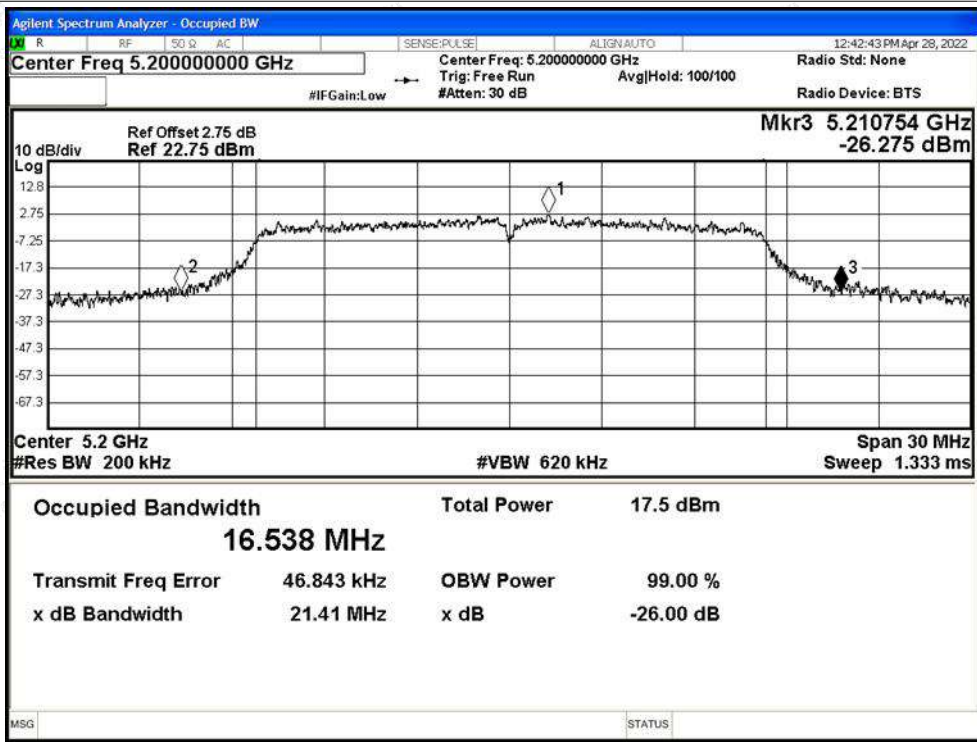
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26dB Bandwidth NVNT ac20 5180MHz Ant1



26dB Bandwidth NVNT ac20 5200MHz Ant1



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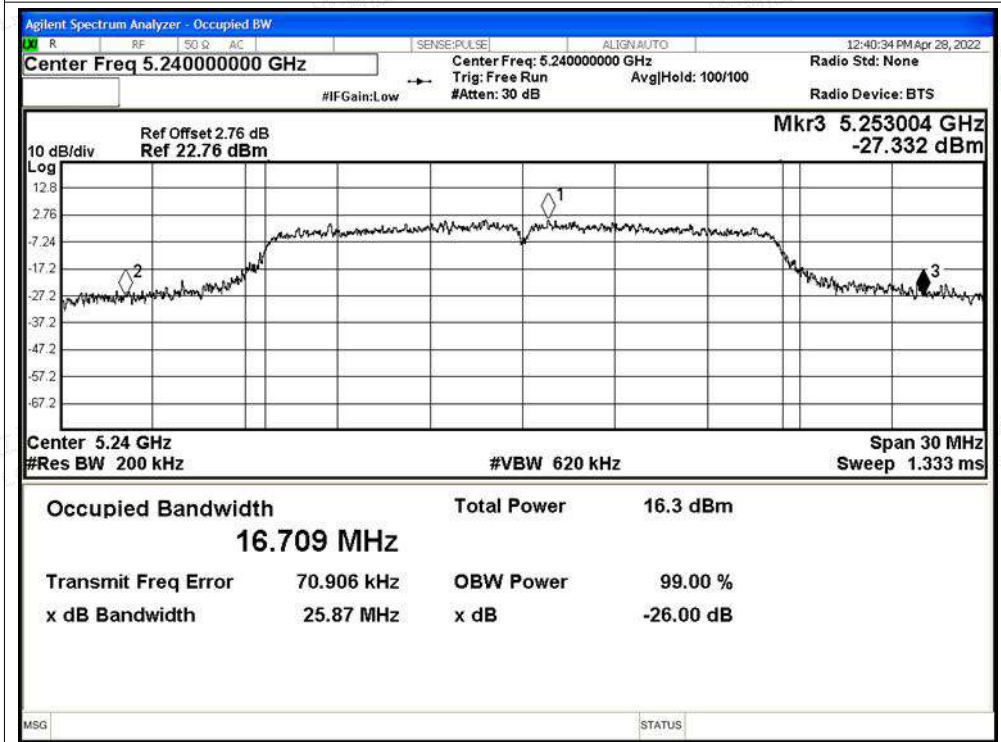
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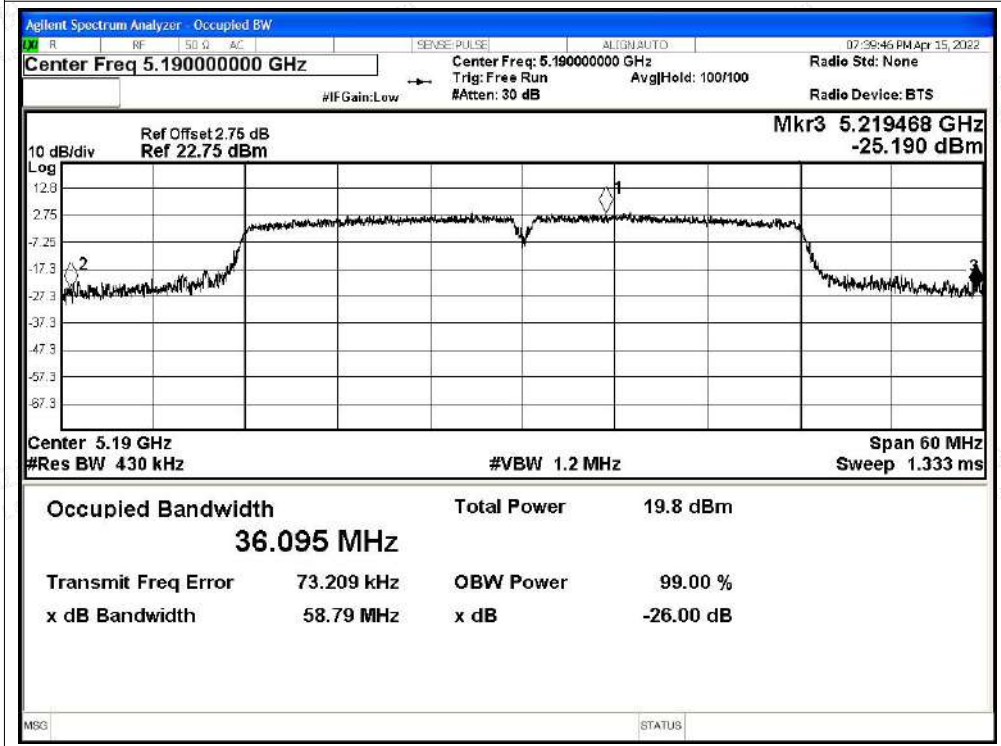
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26dB Bandwidth NVNT ac20 5240MHz Ant1



26dB Bandwidth NVNT ac40 5190MHz Ant1



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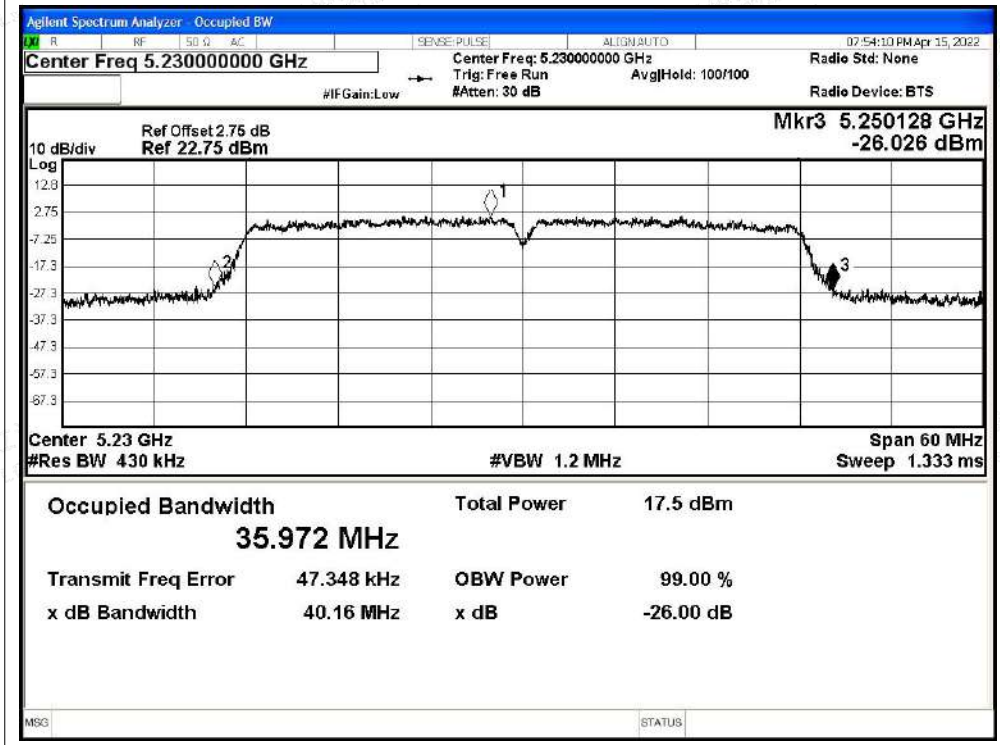
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26dB Bandwidth NVNT ac40 5230MHz Ant1



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## D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	13.01	24	Pass
NVNT	a	5200	Ant1	13.37	24	Pass
NVNT	a	5240	Ant1	12.32	24	Pass
NVNT	n20	5180	Ant1	13.07	24	Pass
NVNT	n20	5200	Ant1	12.96	24	Pass
NVNT	n20	5240	Ant1	11.97	24	Pass
NVNT	n40	5190	Ant1	12.99	24	Pass
NVNT	n40	5230	Ant1	12.37	24	Pass
NVNT	ac20	5180	Ant1	14.39	24	Pass
NVNT	ac20	5200	Ant1	14.16	24	Pass
NVNT	ac20	5240	Ant1	12.98	24	Pass
NVNT	ac40	5190	Ant1	13.17	24	Pass
NVNT	ac40	5230	Ant1	11.89	24	Pass

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



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### D.3 Maximum Power Spectral Density

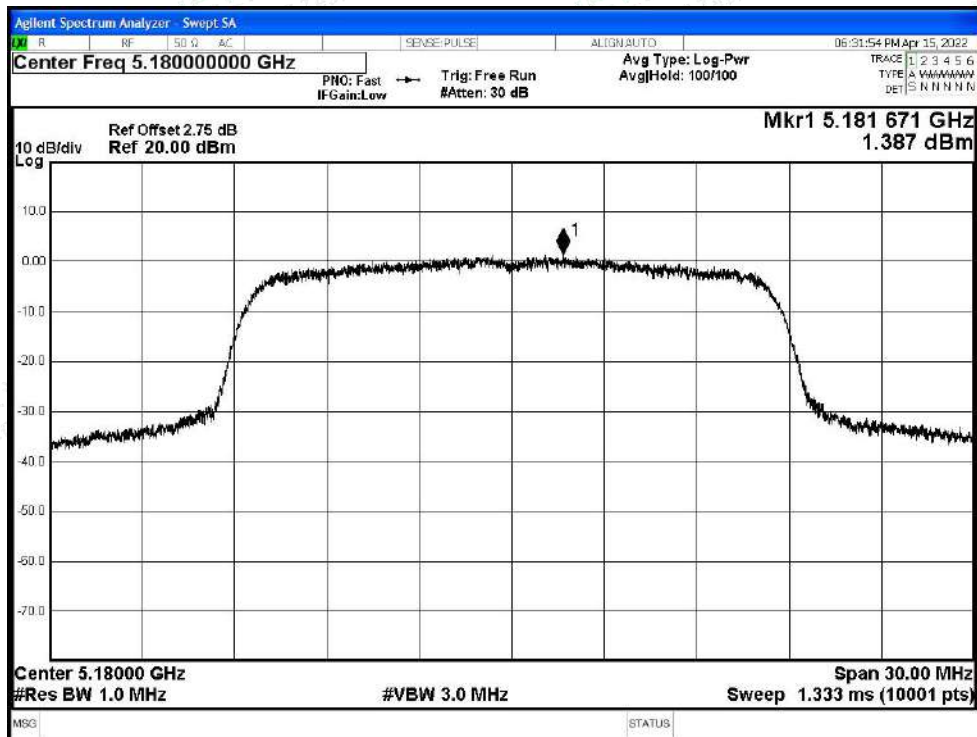
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.39	0	1.39	11	Pass
NVNT	a	5200	Ant1	1.84	0	1.84	11	Pass
NVNT	a	5240	Ant1	0.67	0	0.67	11	Pass
NVNT	n20	5180	Ant1	1.48	0	1.48	11	Pass
NVNT	n20	5200	Ant1	0.74	0	0.74	11	Pass
NVNT	n20	5240	Ant1	-0.07	0	-0.07	11	Pass
NVNT	n40	5190	Ant1	-2.27	0	-2.27	11	Pass
NVNT	n40	5230	Ant1	-2.95	0	-2.95	11	Pass
NVNT	ac20	5180	Ant1	-3.05	0	-3.05	11	Pass
NVNT	ac20	5200	Ant1	-3.14	0	-3.14	11	Pass
NVNT	ac20	5240	Ant1	-5.67	0	-5.67	11	Pass
NVNT	ac40	5190	Ant1	-1.65	0	-1.65	11	Pass
NVNT	ac40	5230	Ant1	-3.13	0	-3.13	11	Pass



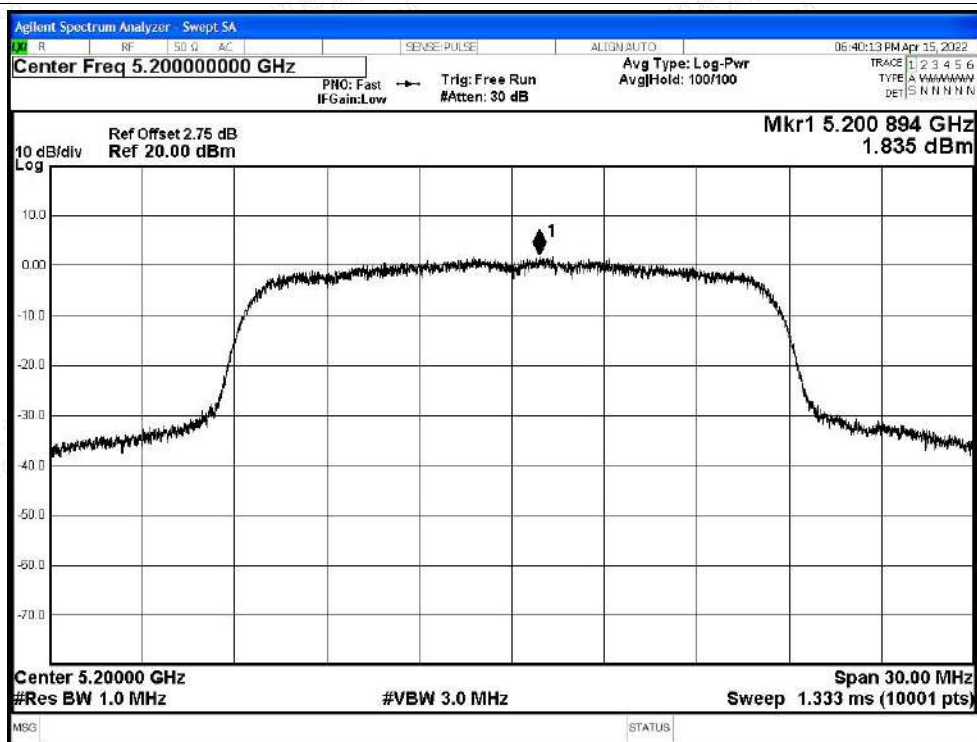


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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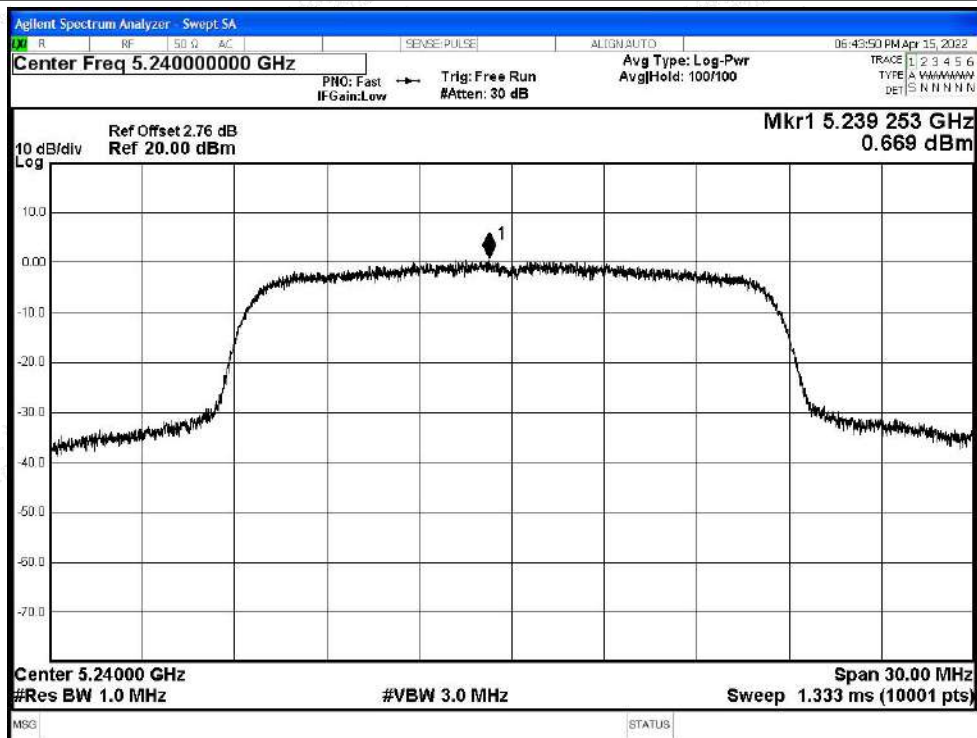
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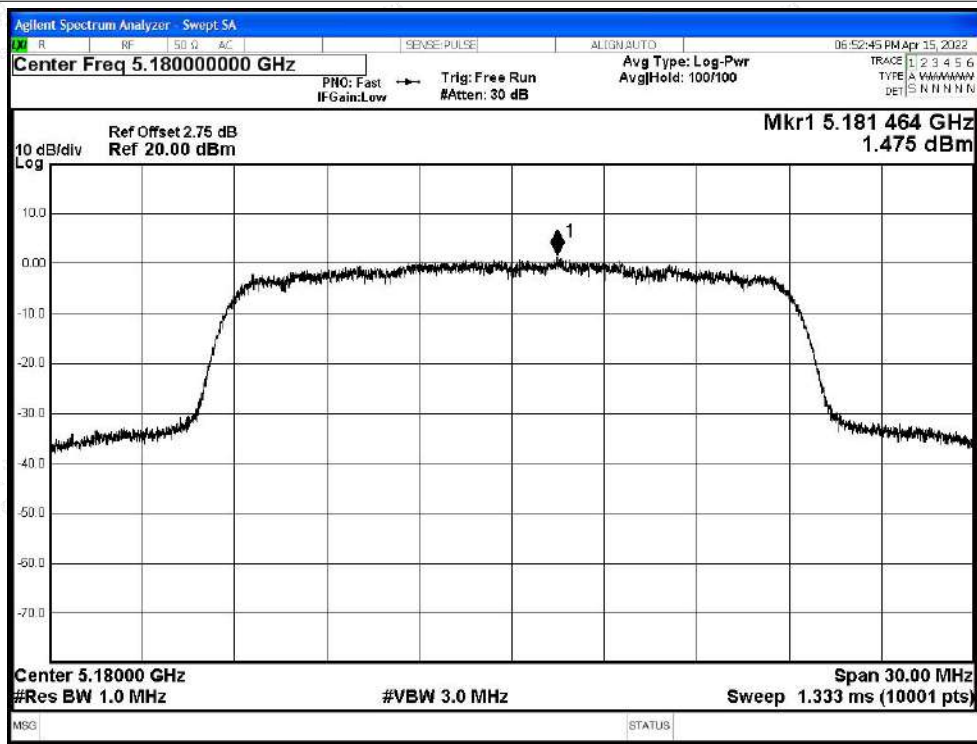
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PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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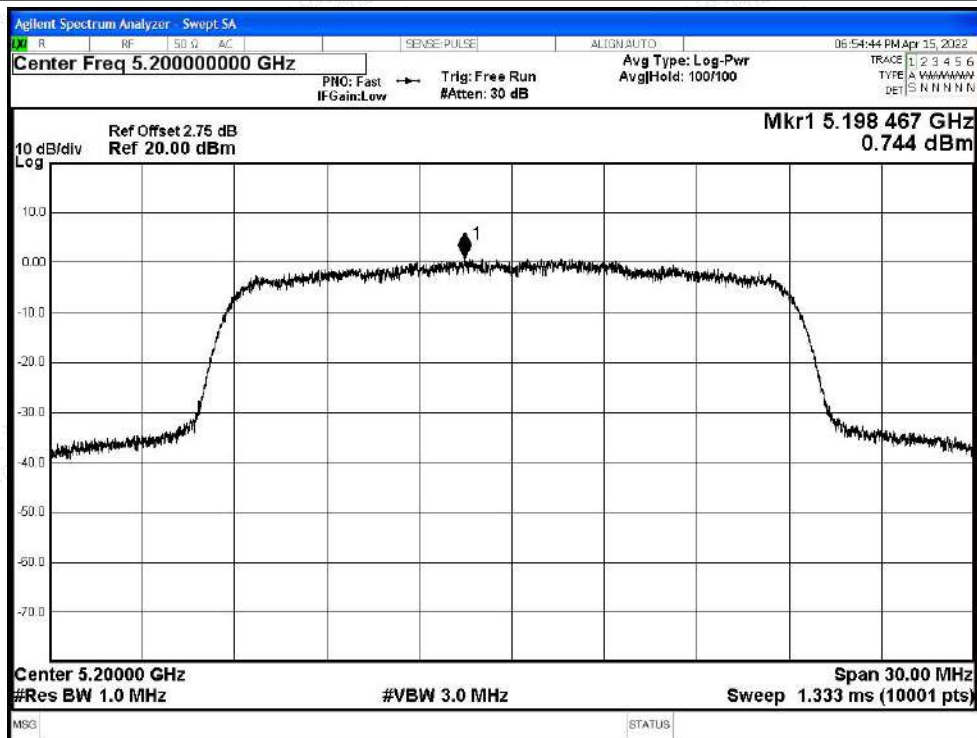
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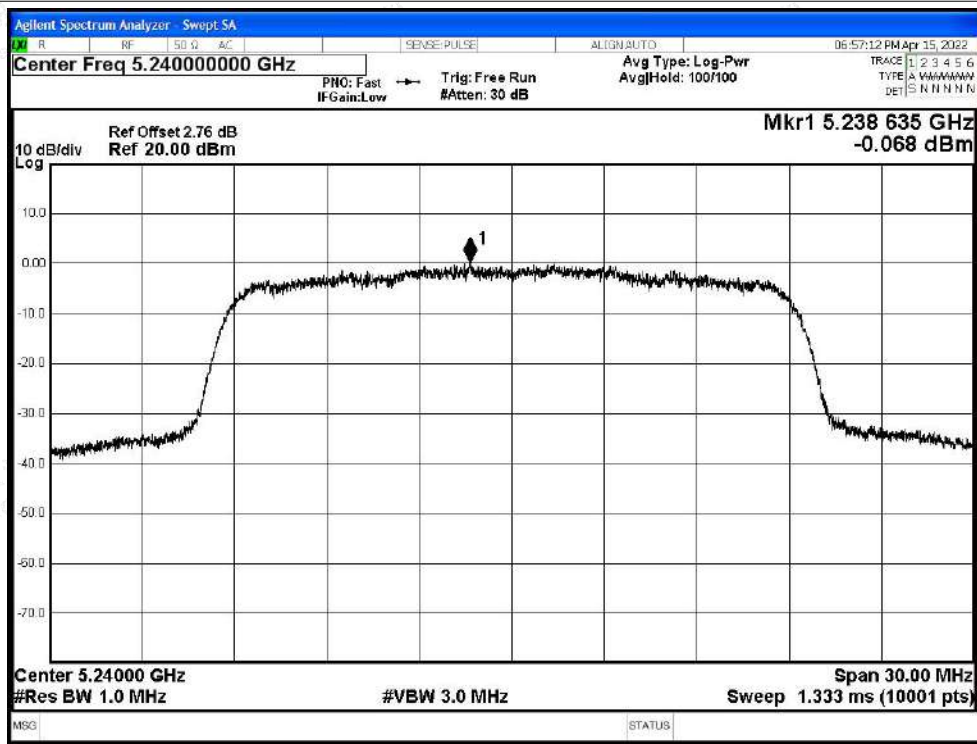
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PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



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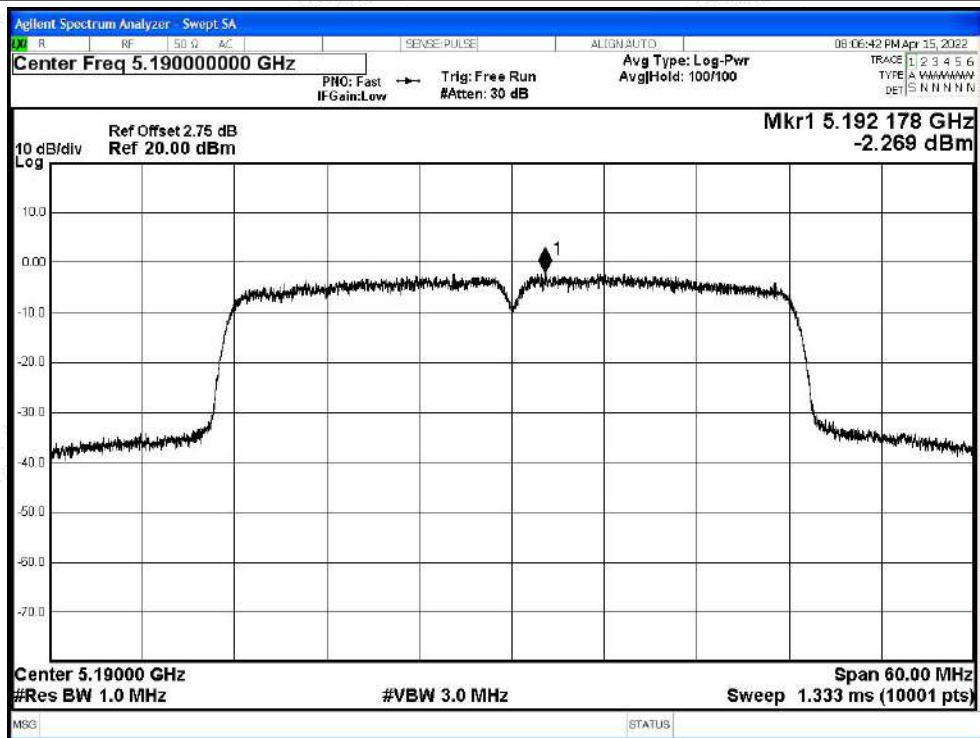
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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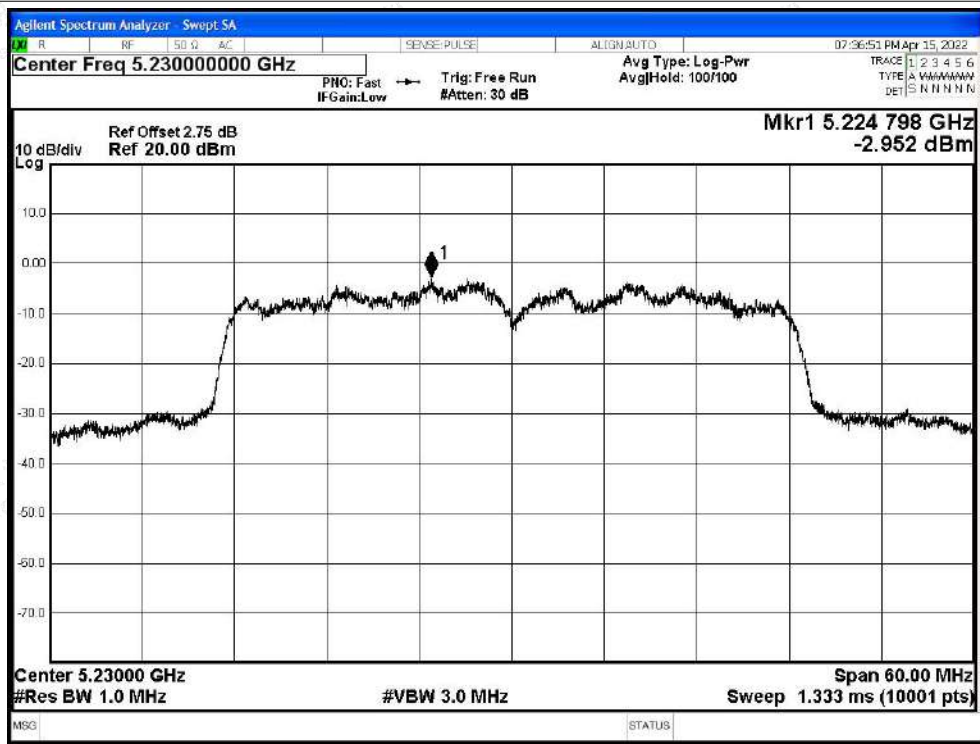
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PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



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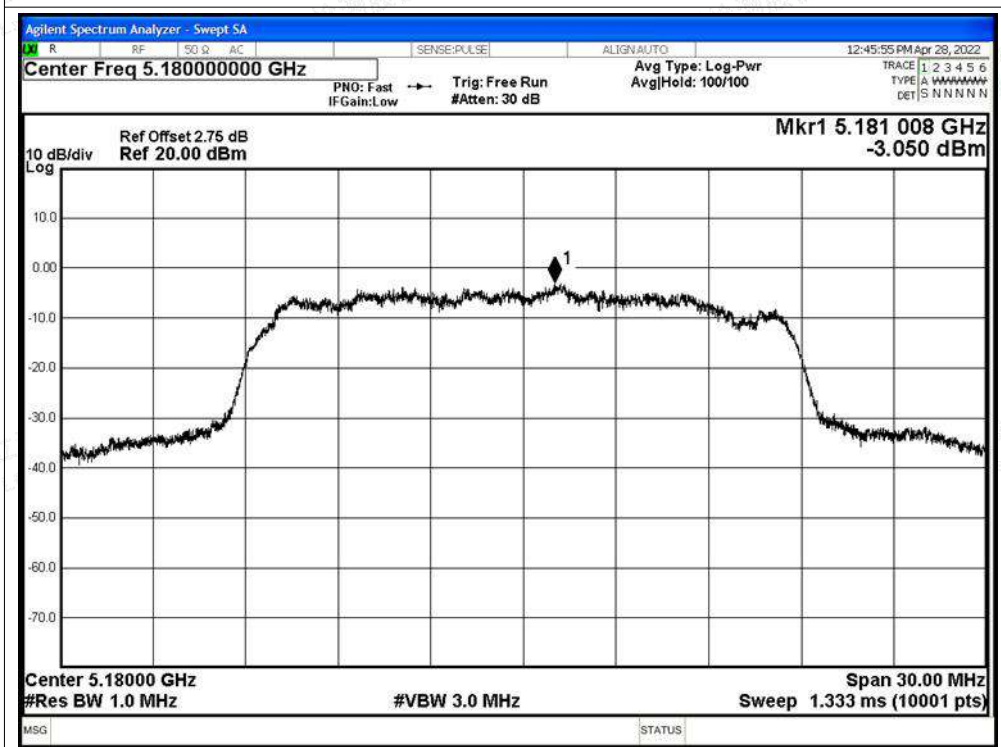
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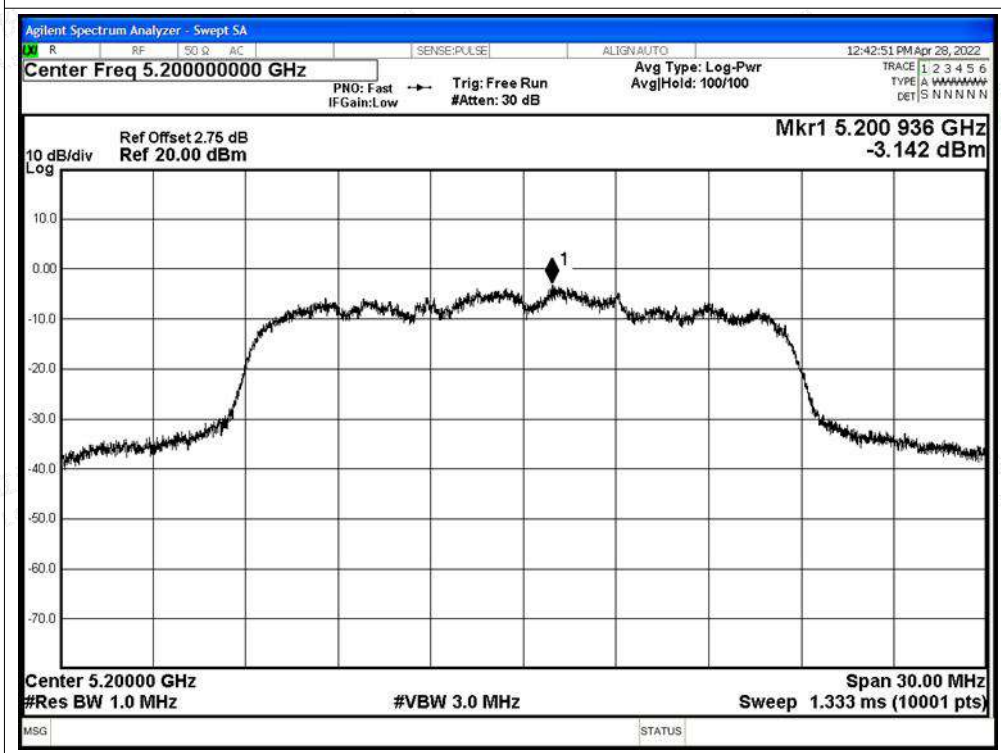
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PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



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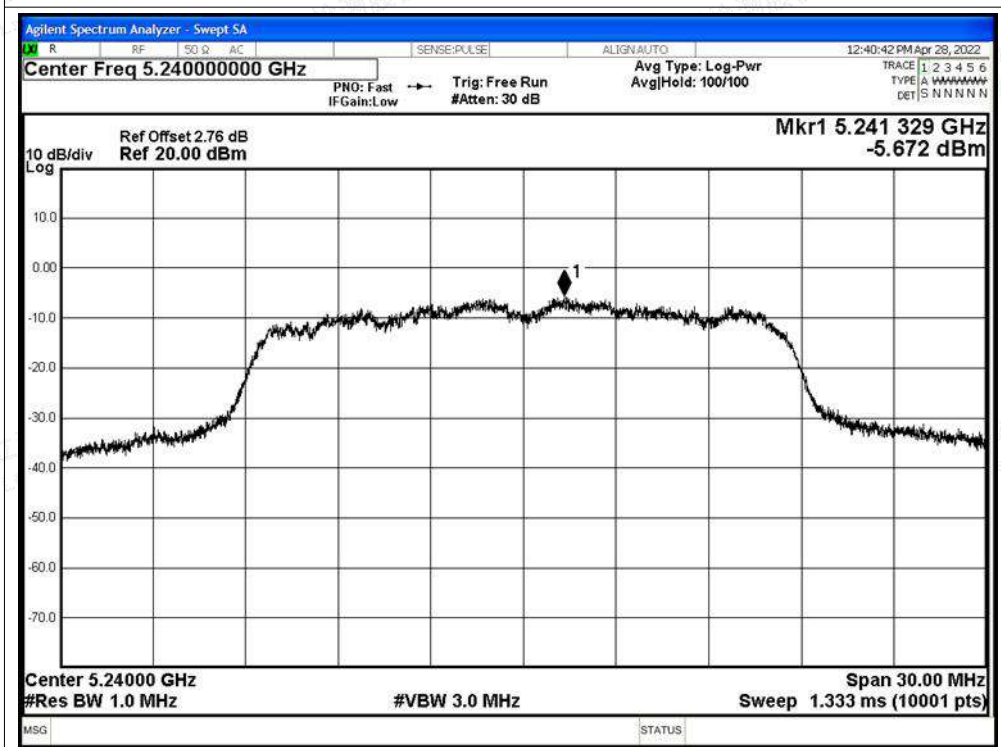
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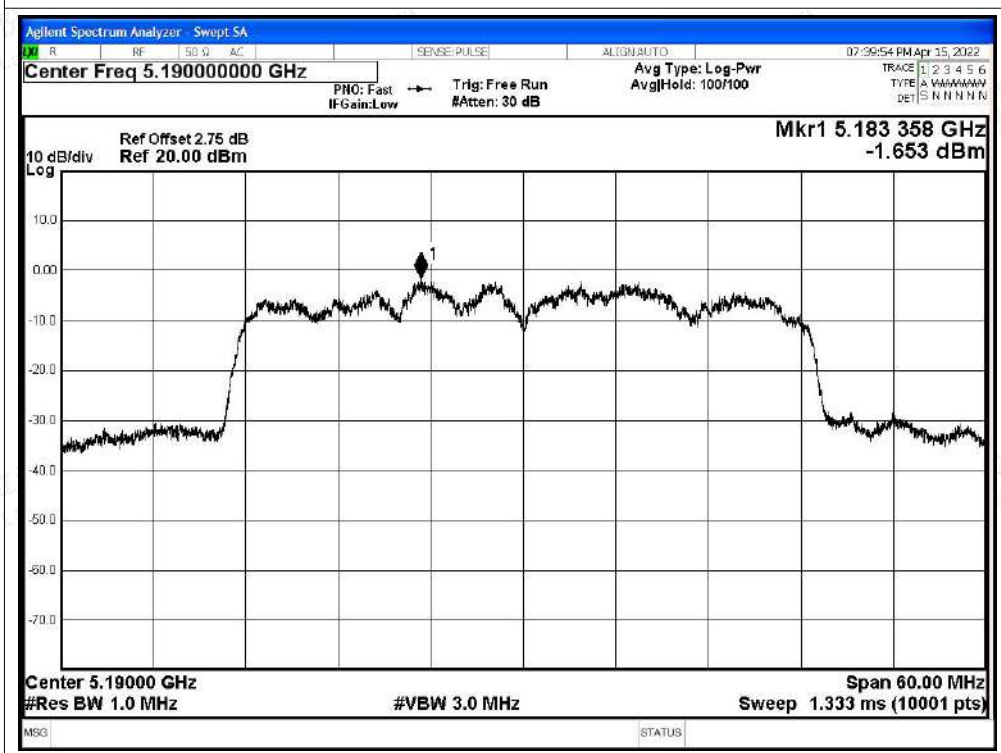


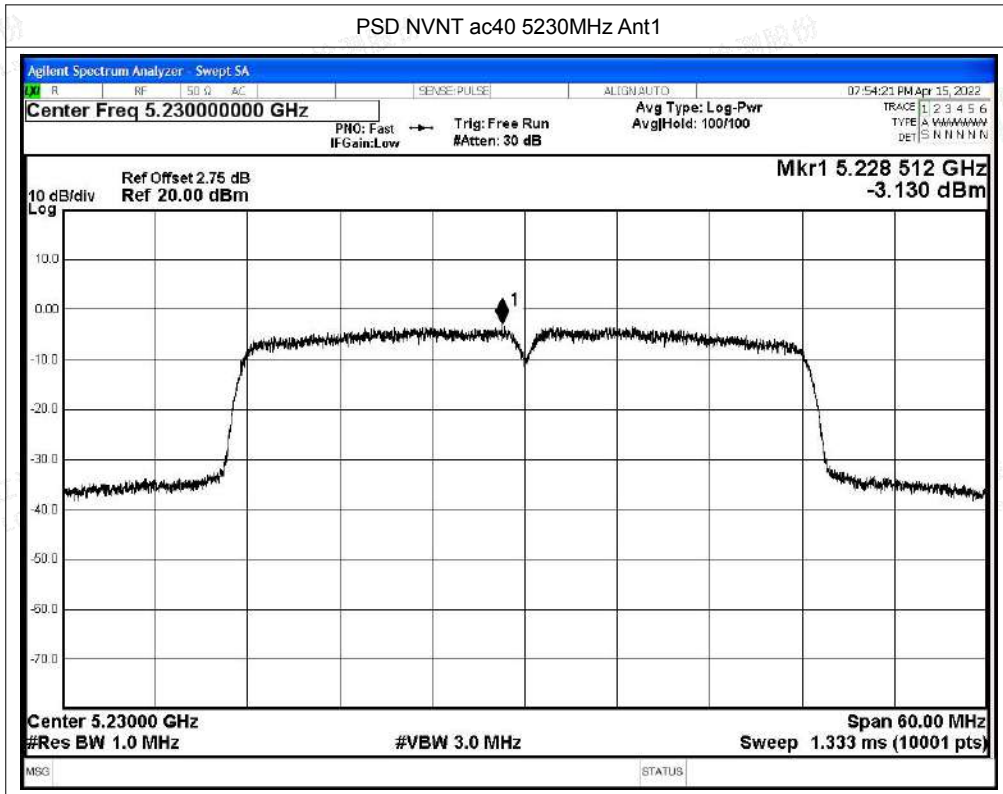


PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1







### D.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	5180	Ant1	4500	-51.52	2	45.71	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-60.67	2	36.56	Average	54	Pass
NVNT	a	5180	Ant1	5146.1	-41.87	2	55.36	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-52.75	2	44.48	Average	54	Pass
NVNT	a	5180	Ant1	5150	-43.21	2	54.02	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-52.87	2	44.36	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.5	2	49.73	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.52	2	40.71	Average	54	Pass
NVNT	a	5240	Ant1	5394.48	-44.07	2	53.16	Peak	68.2	Pass
NVNT	a	5240	Ant1	5392.8	-55.72	2	41.51	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.21	2	48.02	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.9	2	38.33	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-51.63	2	45.6	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-60.52	2	36.71	Average	54	Pass
NVNT	n20	5180	Ant1	5144.7	-41.91	2	55.32	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-52.76	2	44.47	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-44.37	2	52.86	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-52.54	2	44.69	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-47.57	2	49.66	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.58	2	40.65	Average	54	Pass
NVNT	n20	5240	Ant1	5354.64	-44.18	2	53.05	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5392.08	-55.49	2	41.74	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.37	2	48.86	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-58.83	2	38.4	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-52.17	2	45.06	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-60.5	2	36.73	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-39.12	2	58.11	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-51.24	2	45.99	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-40.56	2	56.67	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-50.97	2	46.26	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-47.72	2	49.51	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.72	2	40.51	Average	54	Pass
NVNT	n40	5230	Ant1	5375.49	-44.76	2	52.47	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5377.38	-54.25	2	42.98	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.73	2	47.5	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.97	2	38.26	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.72	2	47.51	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-60.28	2	36.95	Average	54	Pass



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NVNT	ac20	5180	Ant1	5143.3	-37.61	2	59.62	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.9	-54.85	2	42.38	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-42.98	2	54.25	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.45	2	42.78	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.69	2	48.54	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.51	2	39.72	Average	54	Pass
NVNT	ac20	5240	Ant1	5394.24	-45.42	2	51.81	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5400	-56.53	2	40.7	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.36	2	47.87	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-59.39	2	37.84	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-51.33	2	45.9	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-60.55	2	36.68	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-42.55	2	54.68	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-51.95	2	45.28	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-41.67	2	55.56	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-51.78	2	45.45	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-46.81	2	50.42	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.85	2	40.38	Average	54	Pass
NVNT	ac40	5230	Ant1	5379	-44.11	2	53.12	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5379.54	-54.88	2	42.35	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-50.24	2	46.99	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.73	2	38.5	Average	54	Pass



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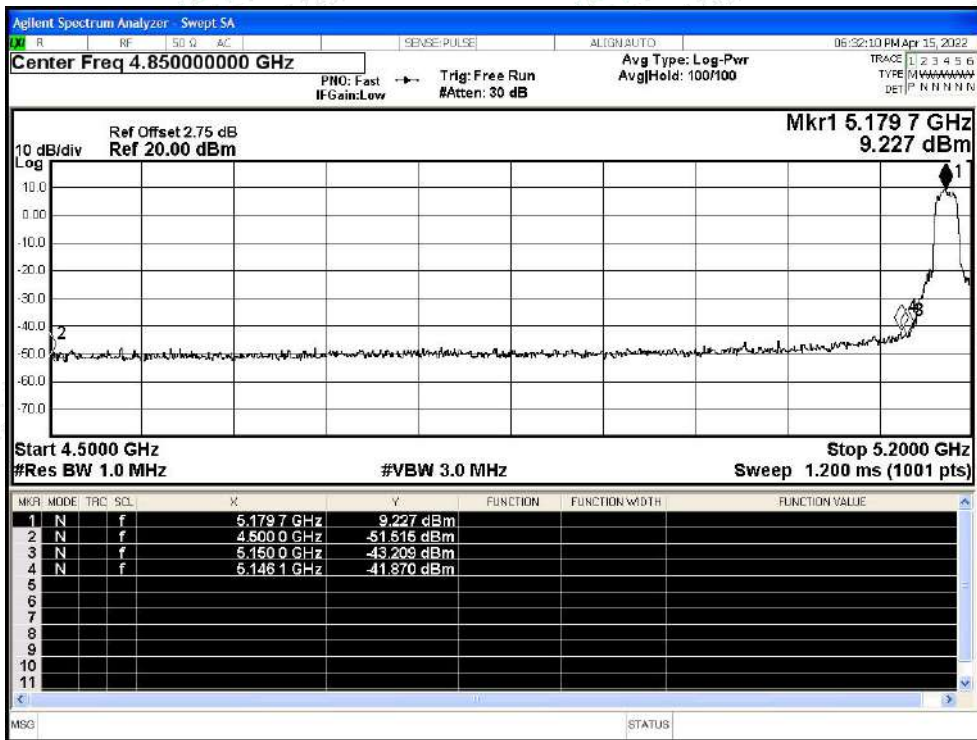
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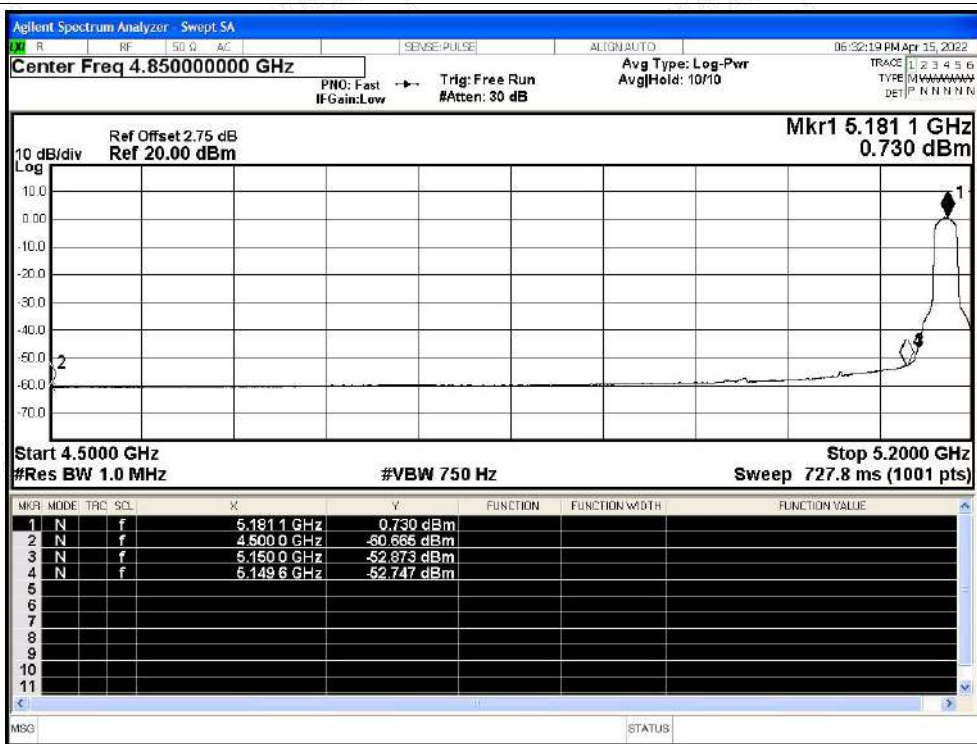


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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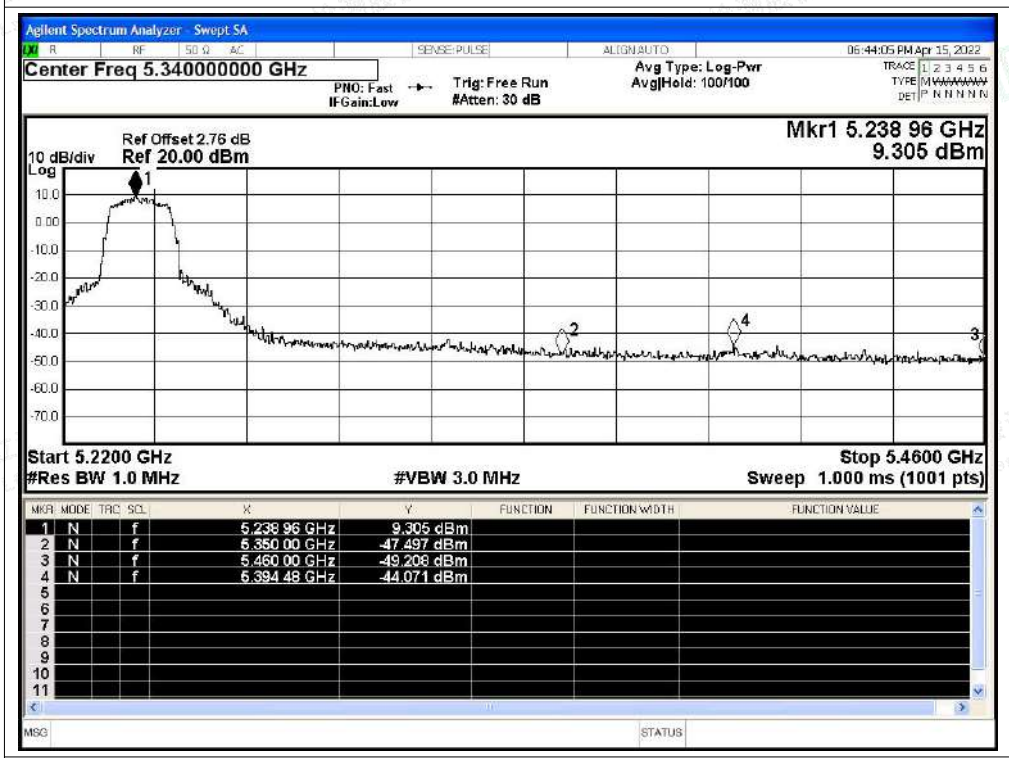
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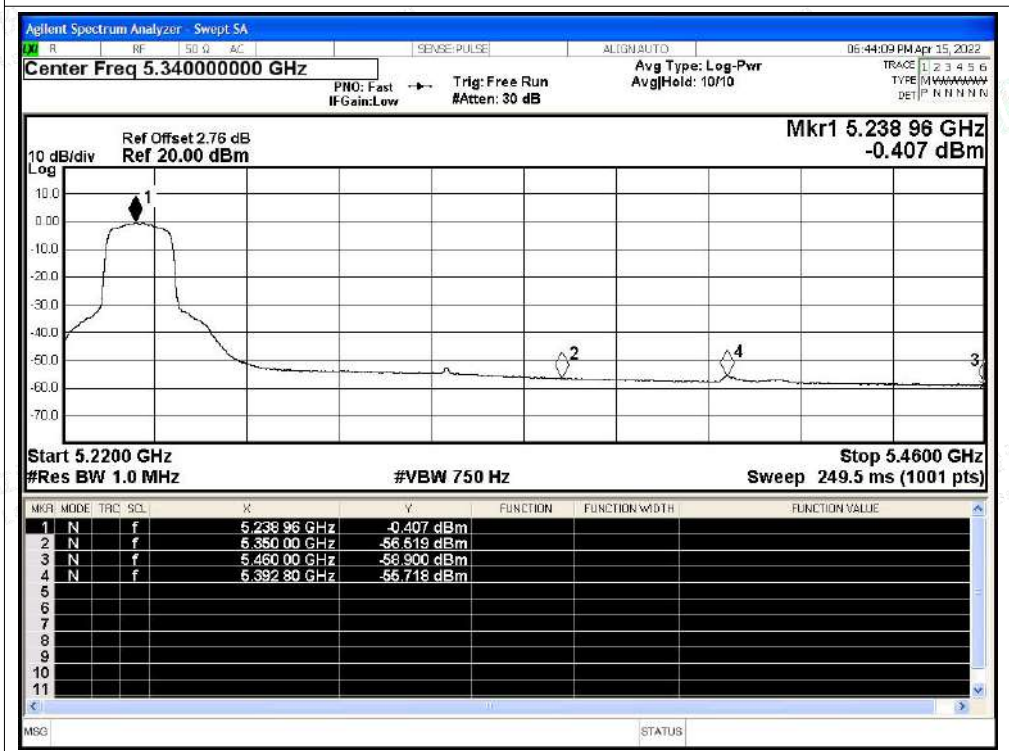
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

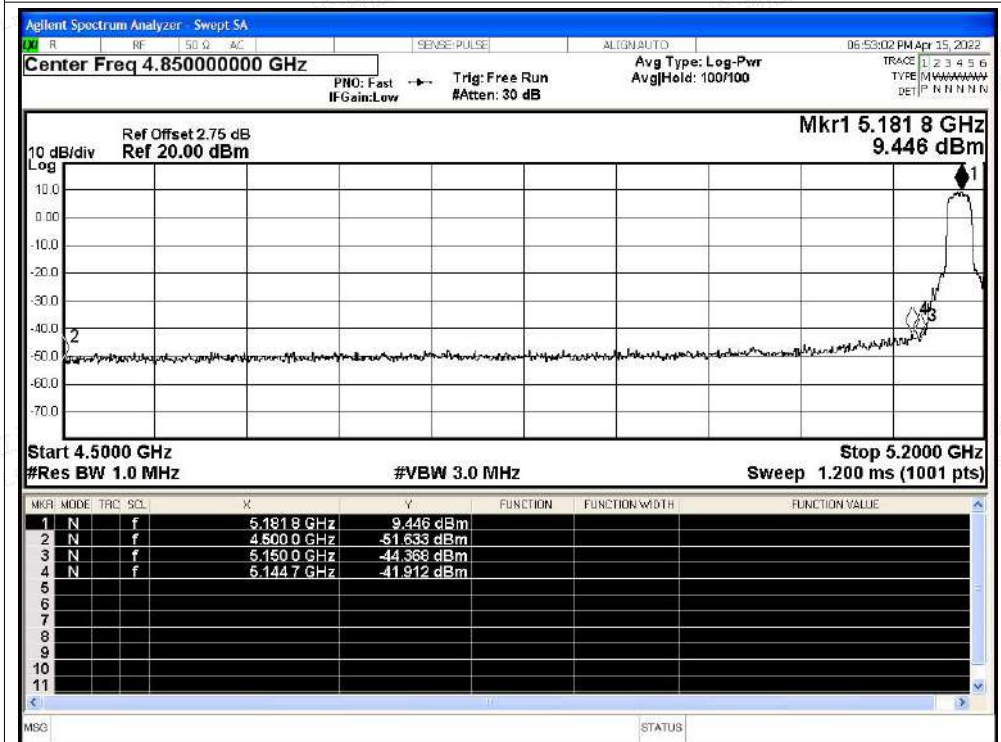
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

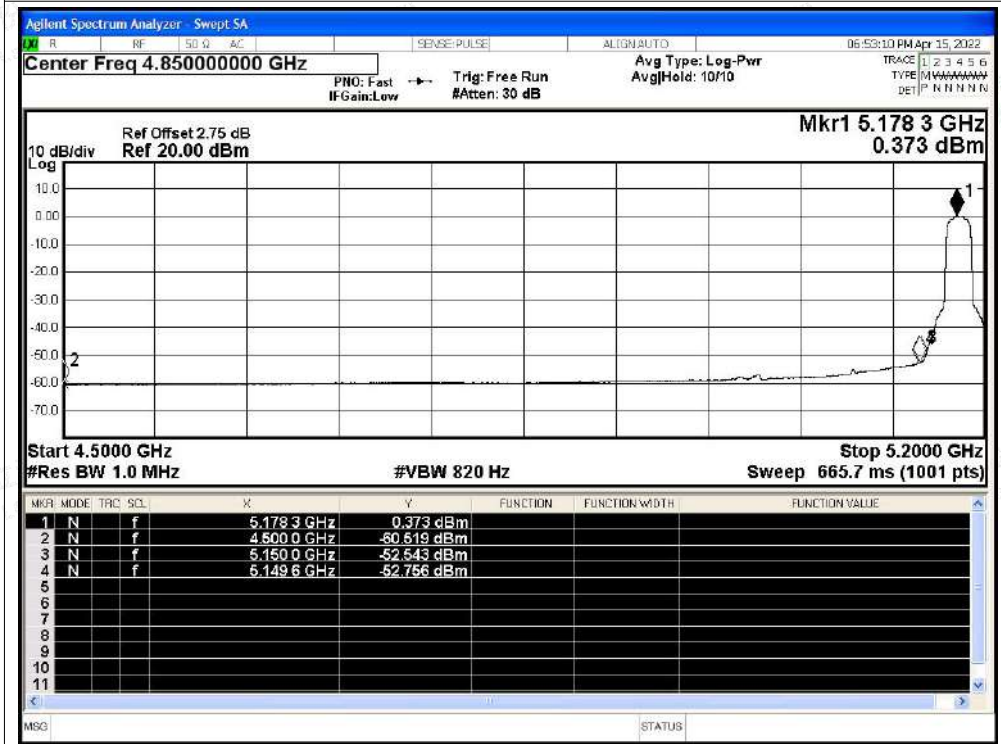
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

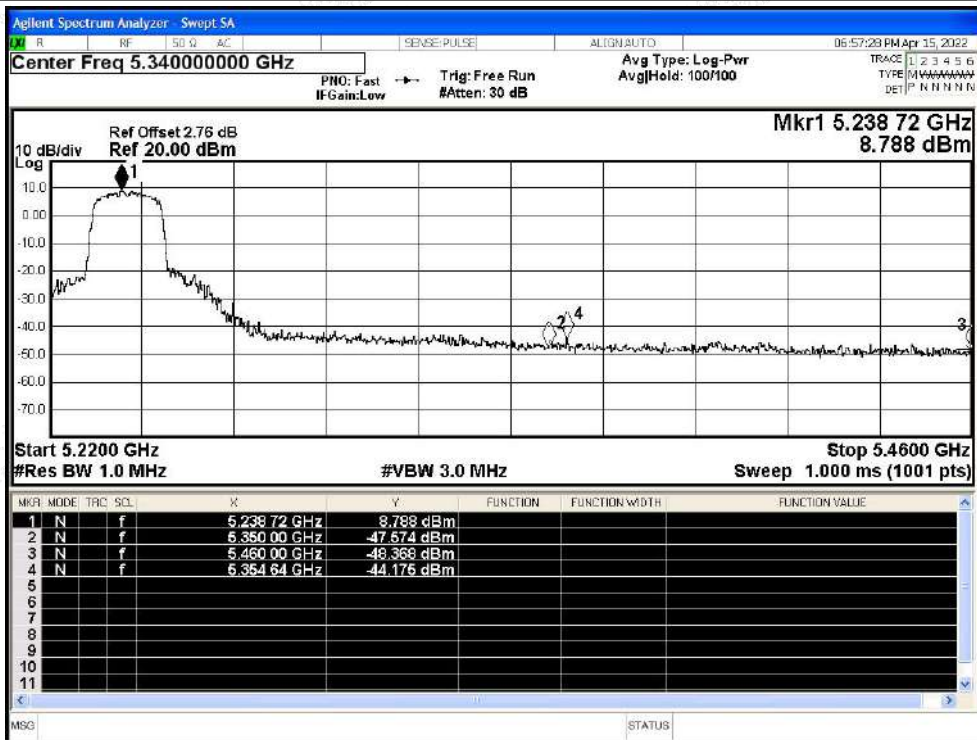
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

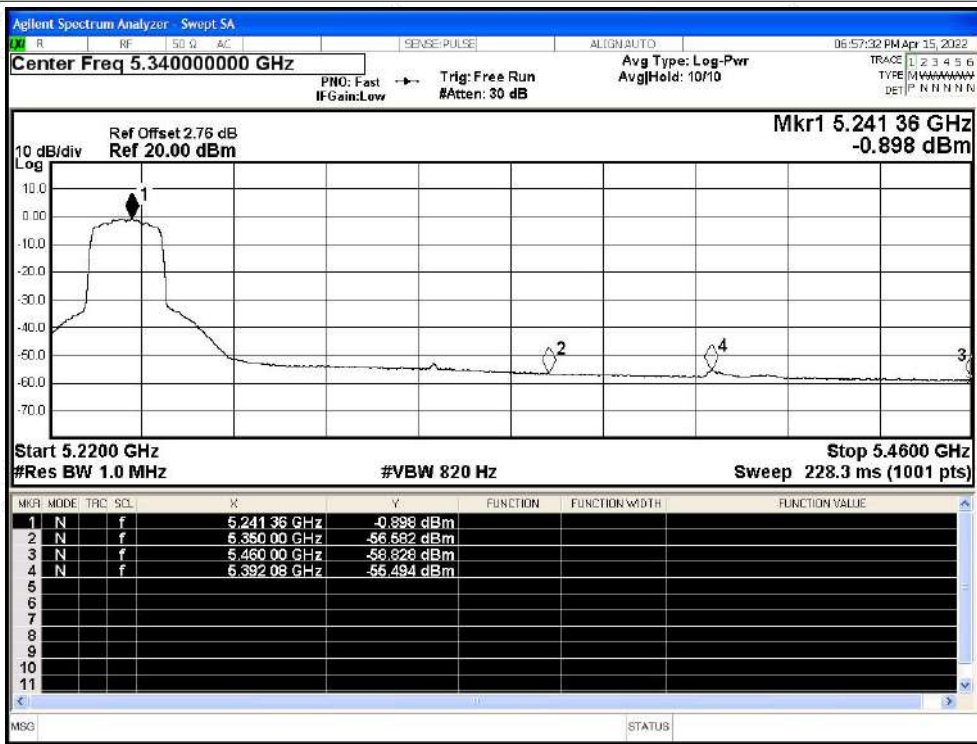
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



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

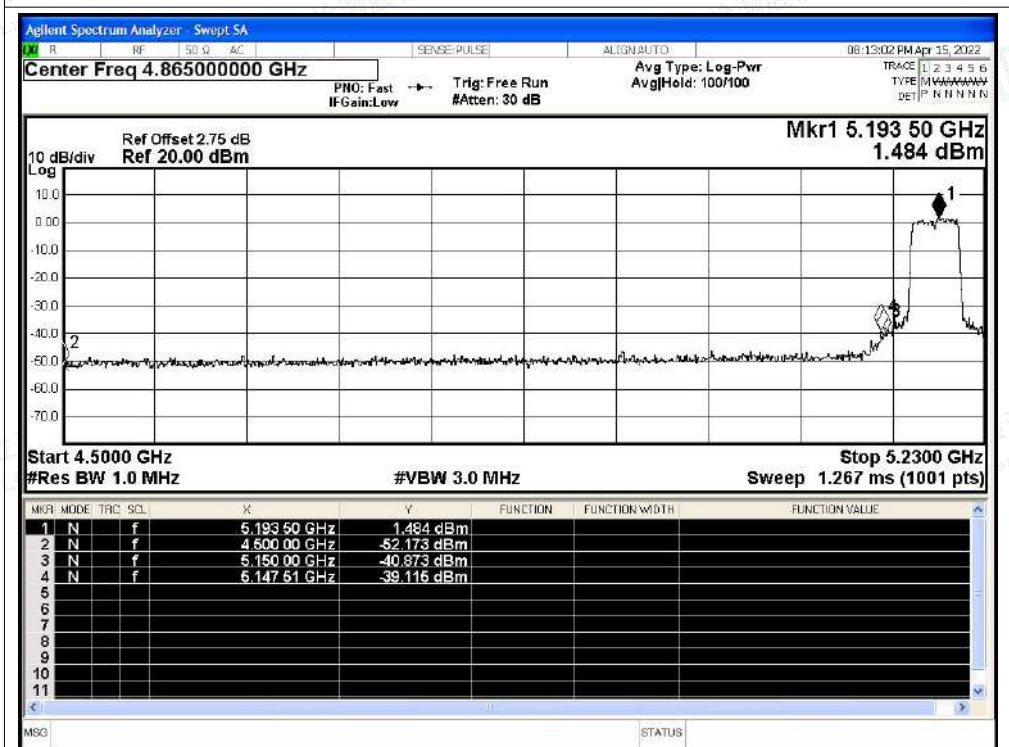
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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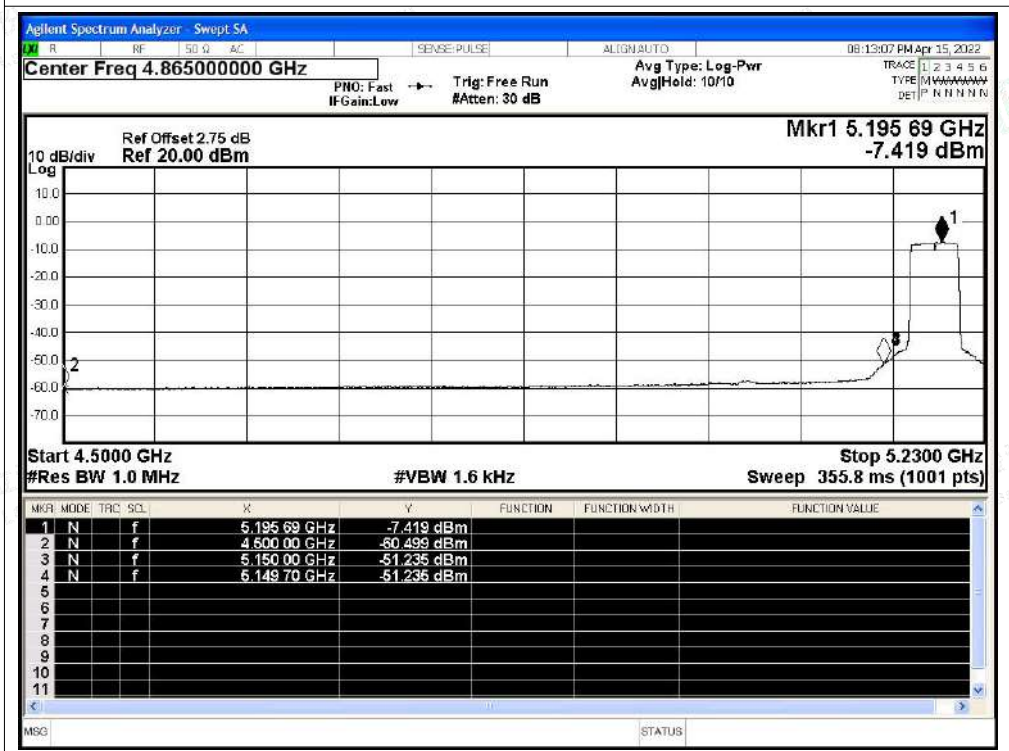




Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

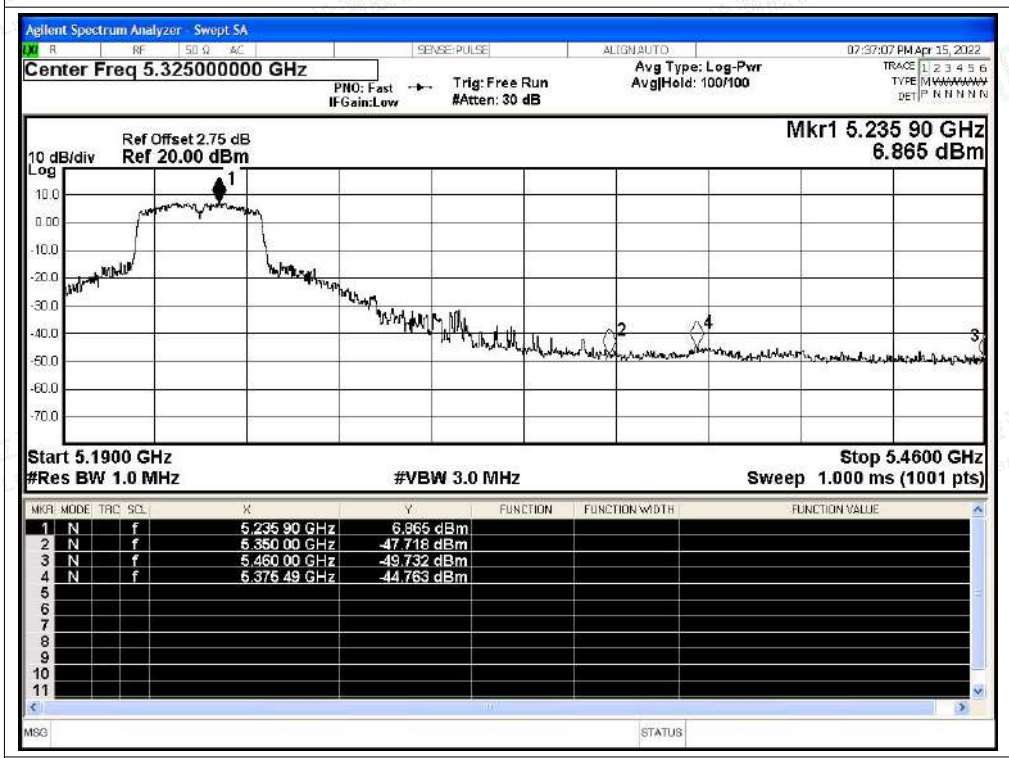
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

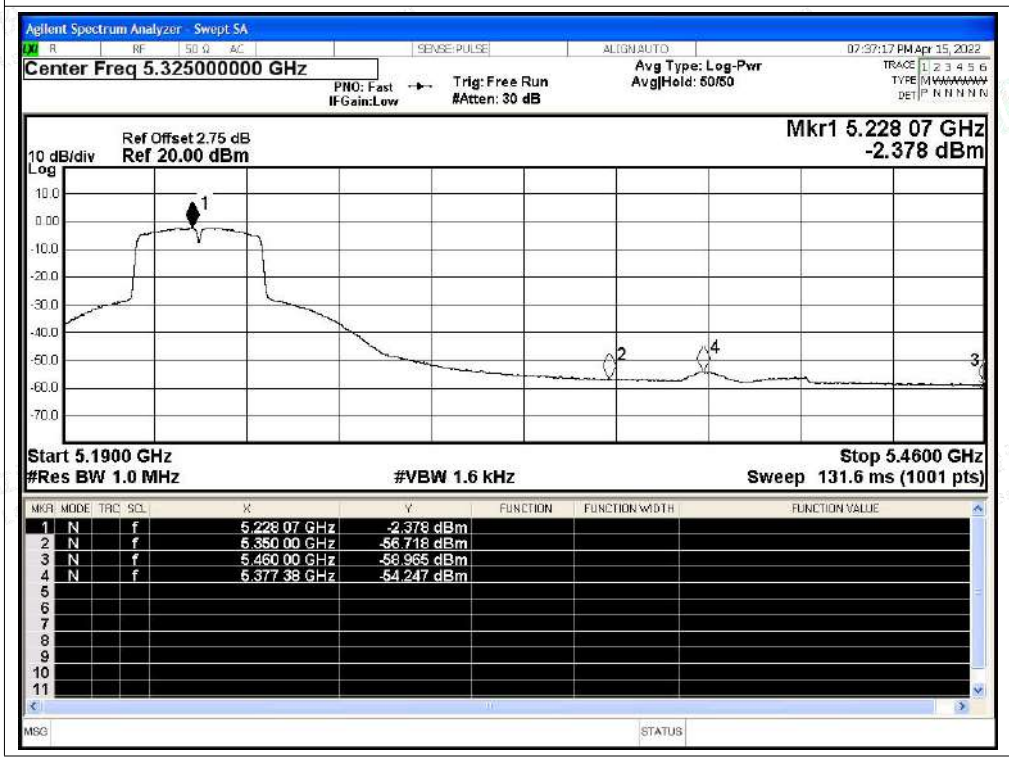
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

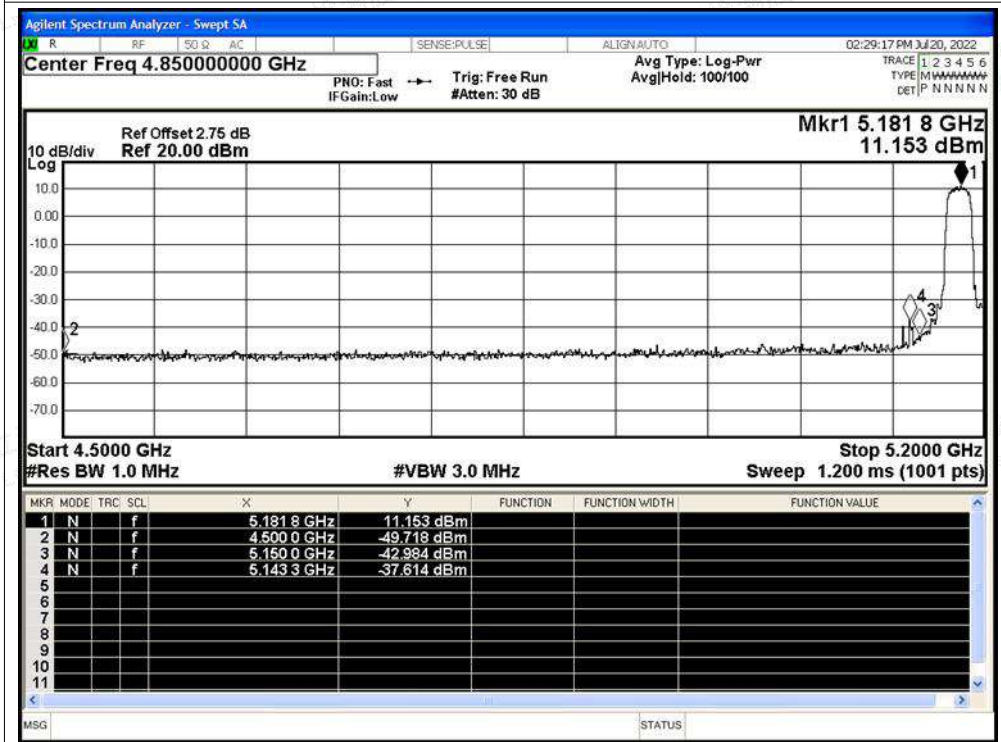
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

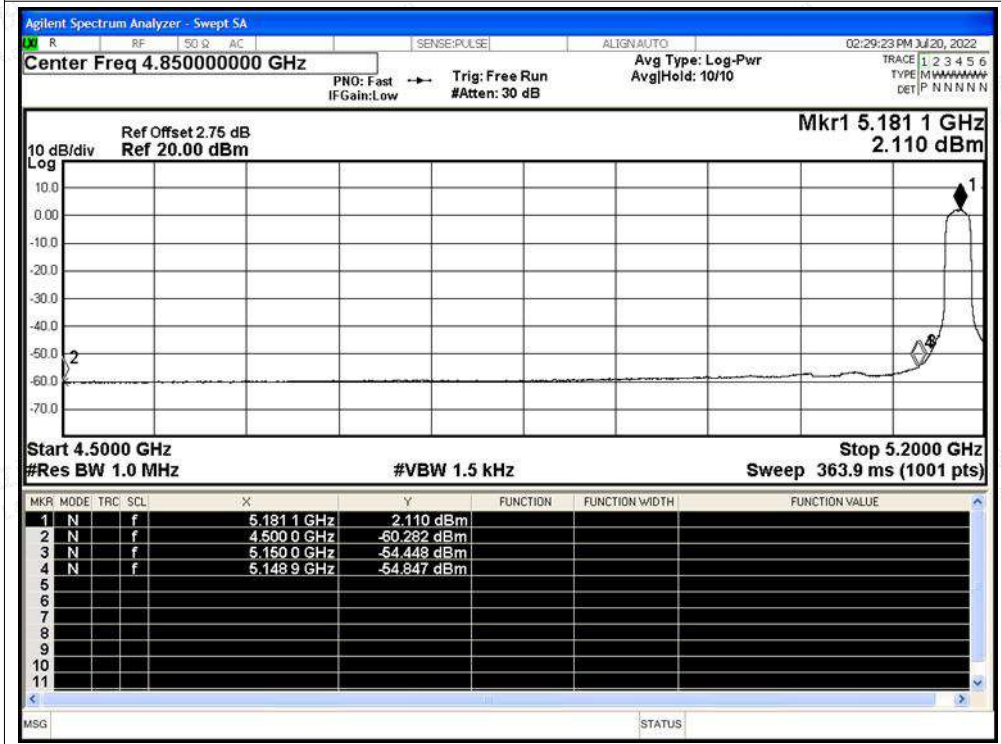
Scan code to check authenticity



Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

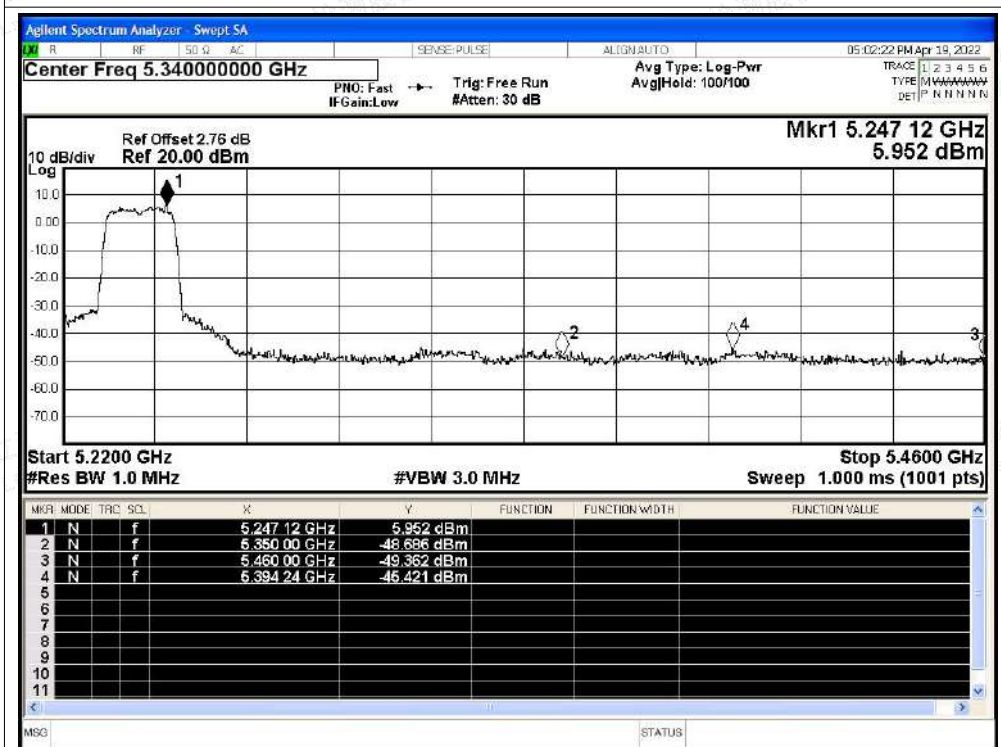
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

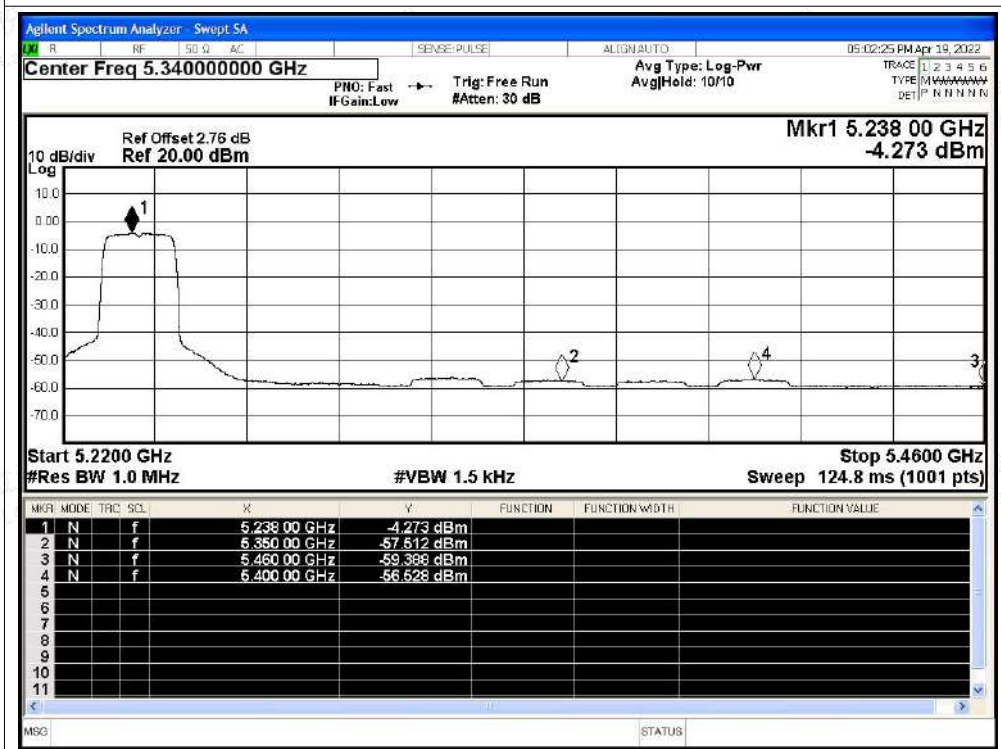
Scan code to check authenticity



Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

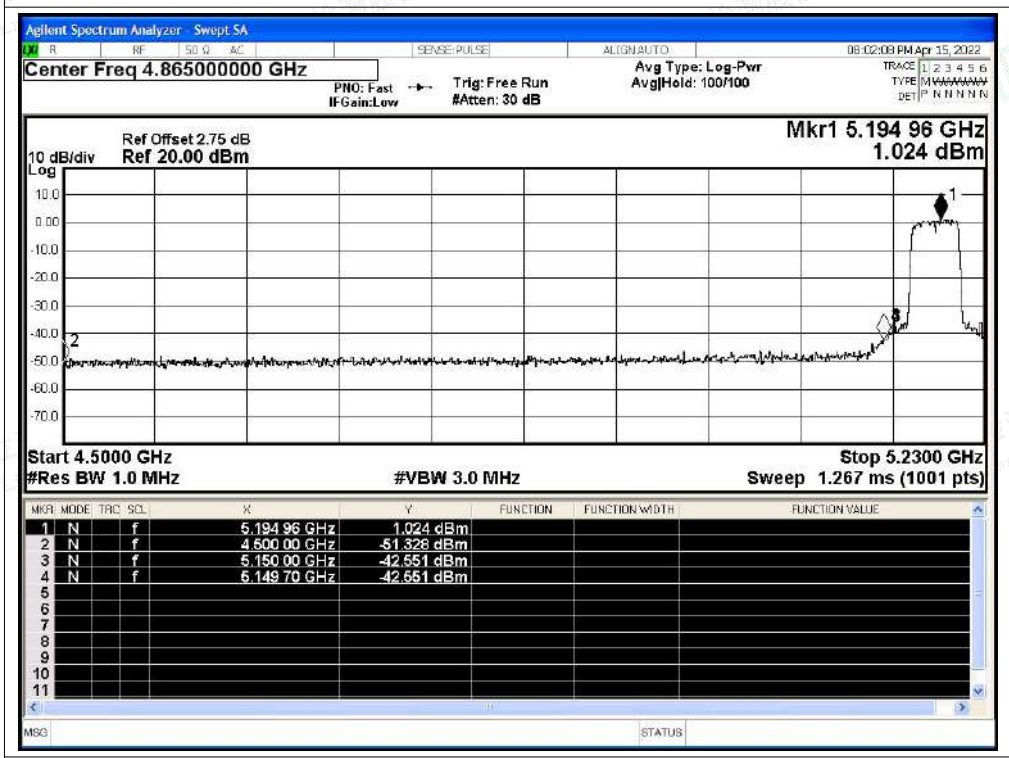
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

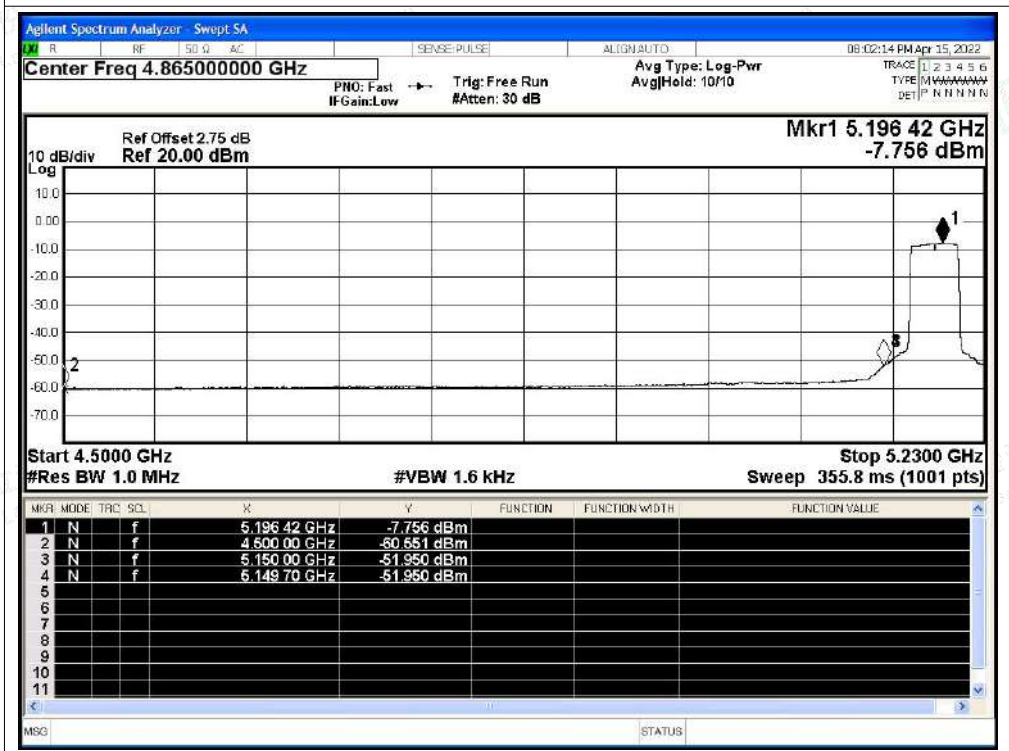
Scan code to check authenticity



Restrict Band NVNT ac40 5190MHz Ant1 Peak



Restrict Band NVNT ac40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

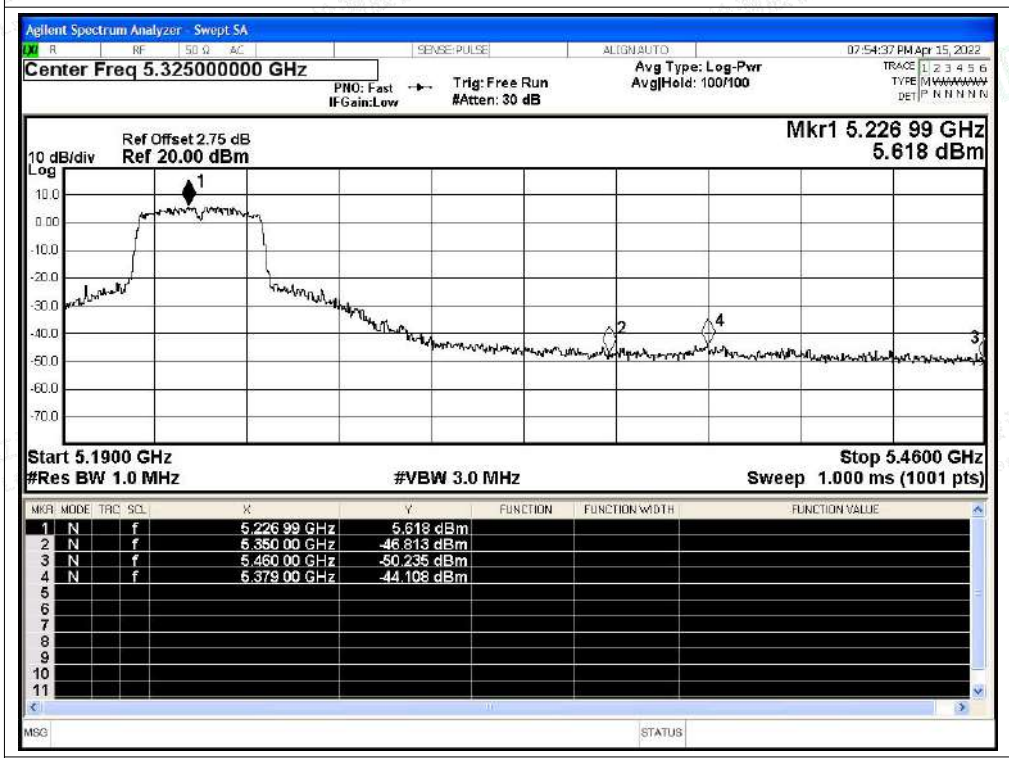
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

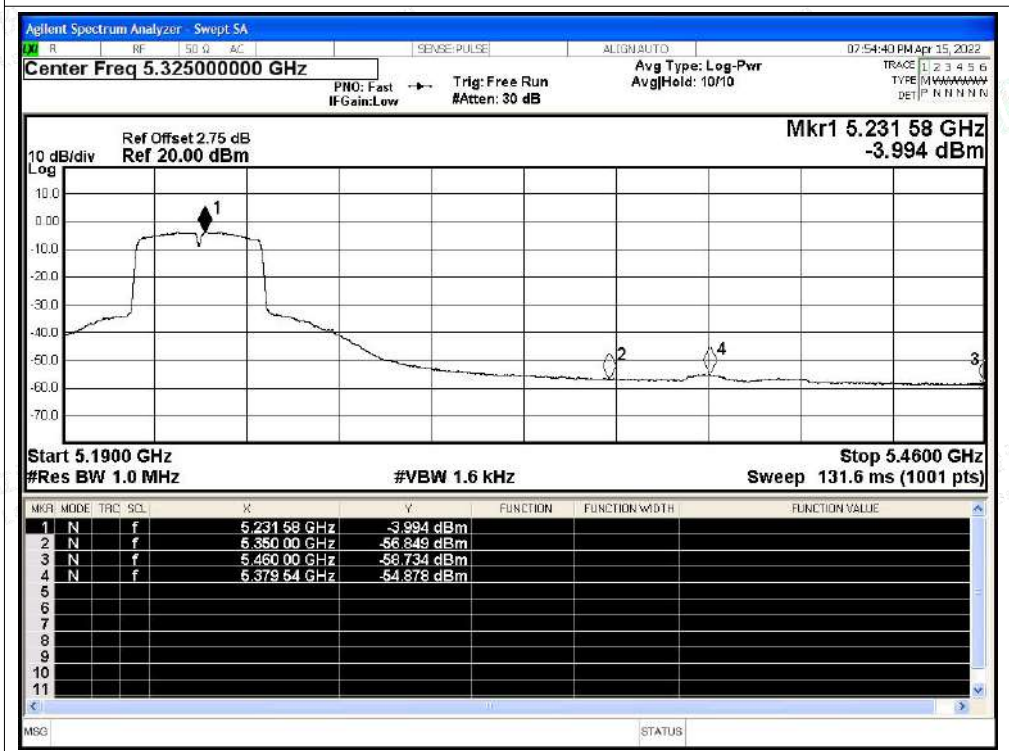
Scan code to check authenticity



Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 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



### D.5 Duty Cycle

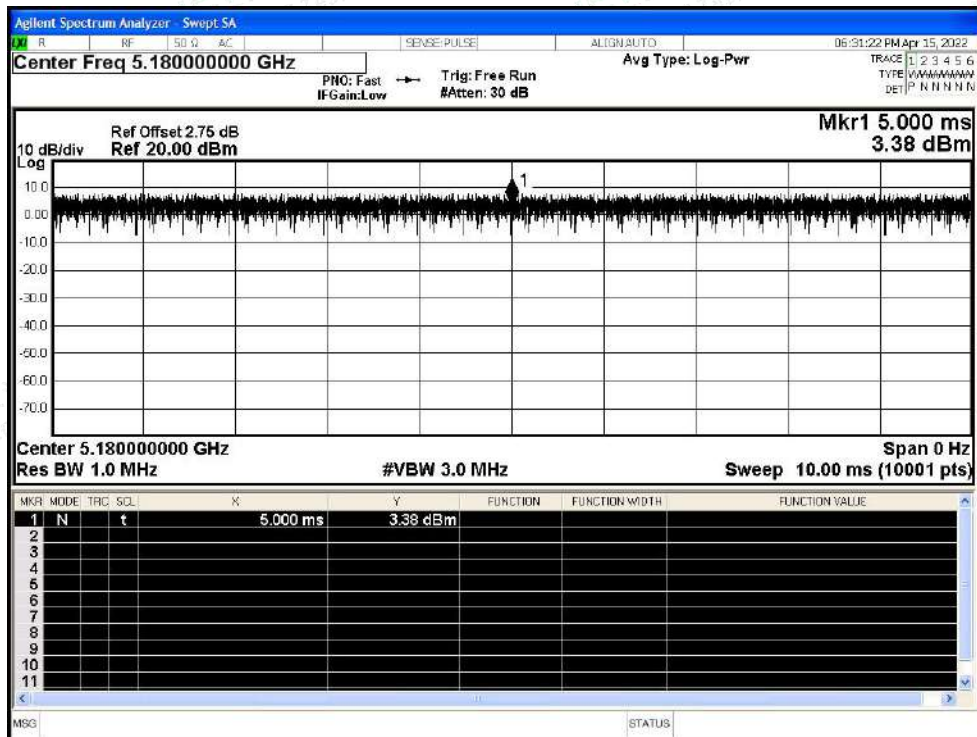
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	100	0	0.01
NVNT	a	5200	Ant1	100	0	0.01
NVNT	a	5240	Ant1	100	0	0.01
NVNT	n20	5180	Ant1	100	0	0.01
NVNT	n20	5200	Ant1	100	0	0.01
NVNT	n20	5240	Ant1	100	0	0.01
NVNT	n40	5190	Ant1	100	0	0.01
NVNT	n40	5230	Ant1	100	0	0.01
NVNT	ac20	5180	Ant1	99.73	0	0.01
NVNT	ac20	5200	Ant1	99.73	0	0.01
NVNT	ac20	5240	Ant1	99.67	0	0.01
NVNT	ac40	5190	Ant1	100	0	0.01
NVNT	ac40	5230	Ant1	100	0	0.01



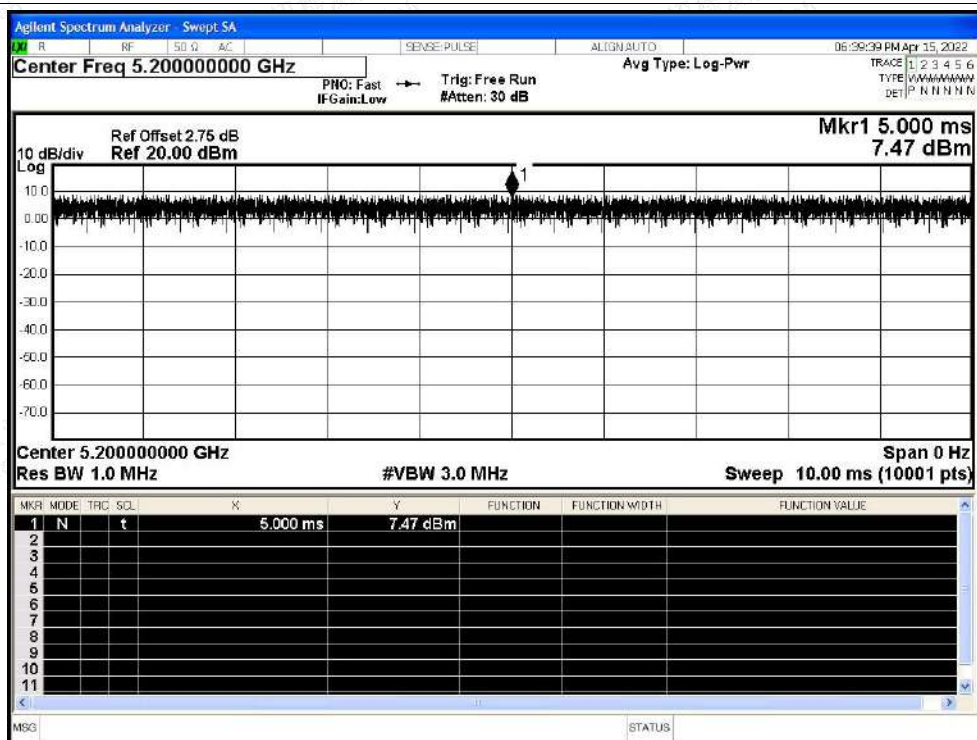


Test Graphs

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

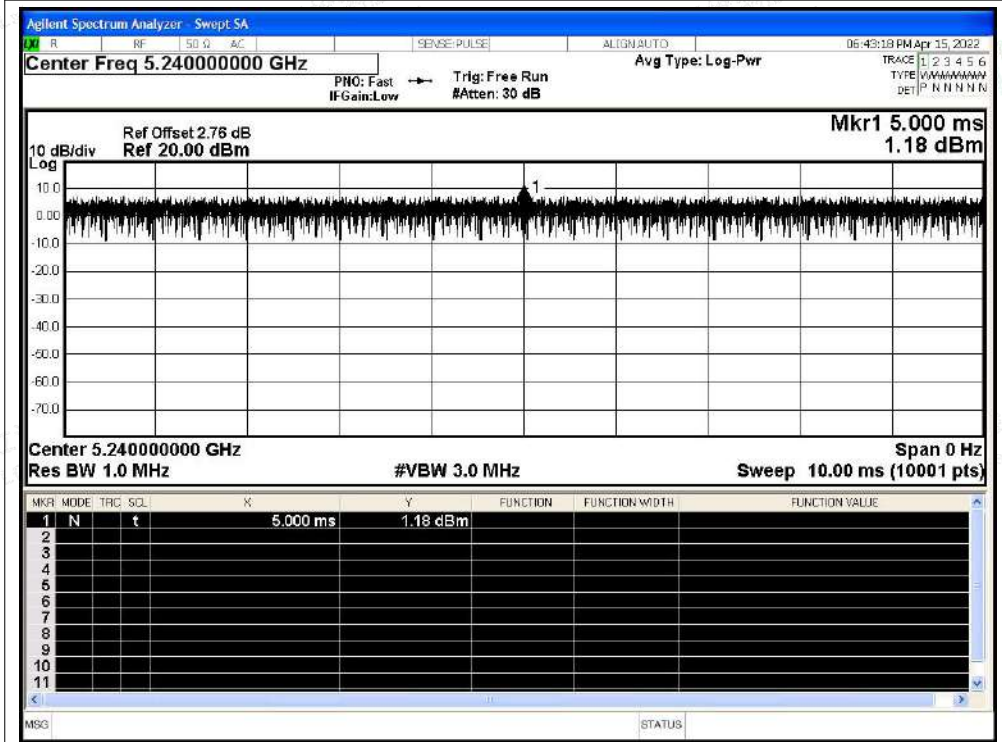
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

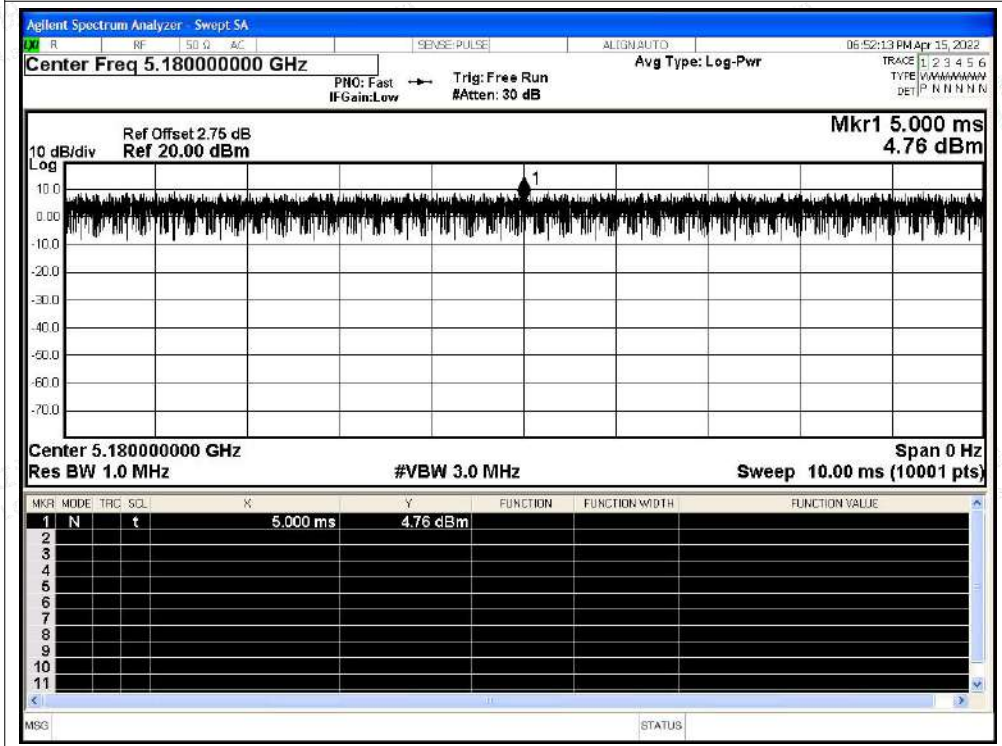




Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

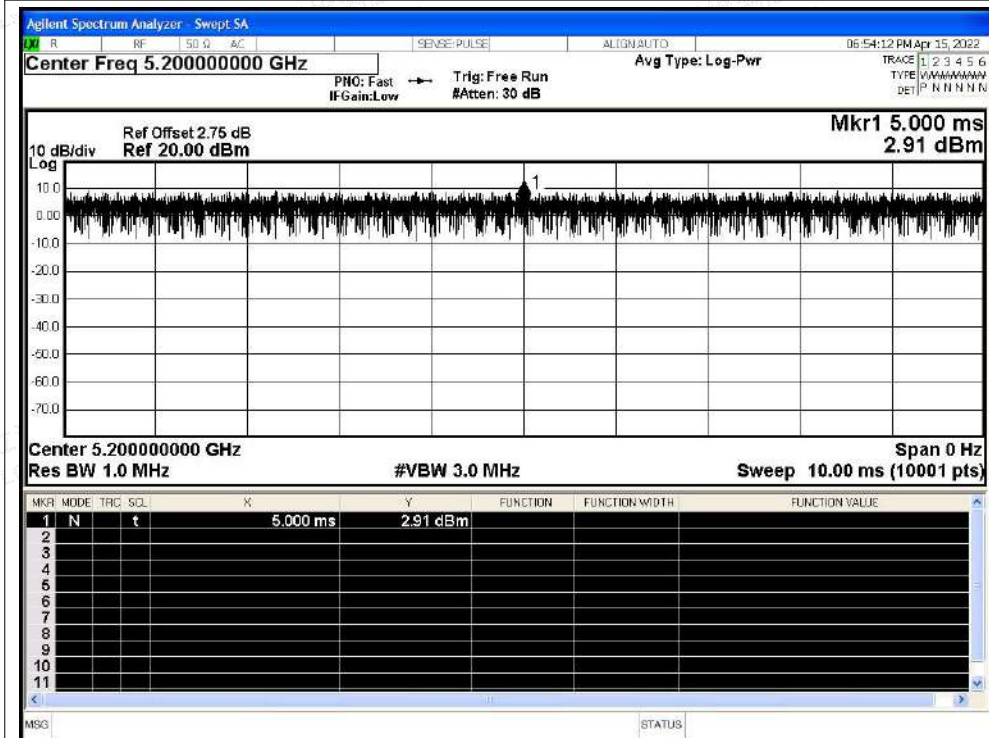
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

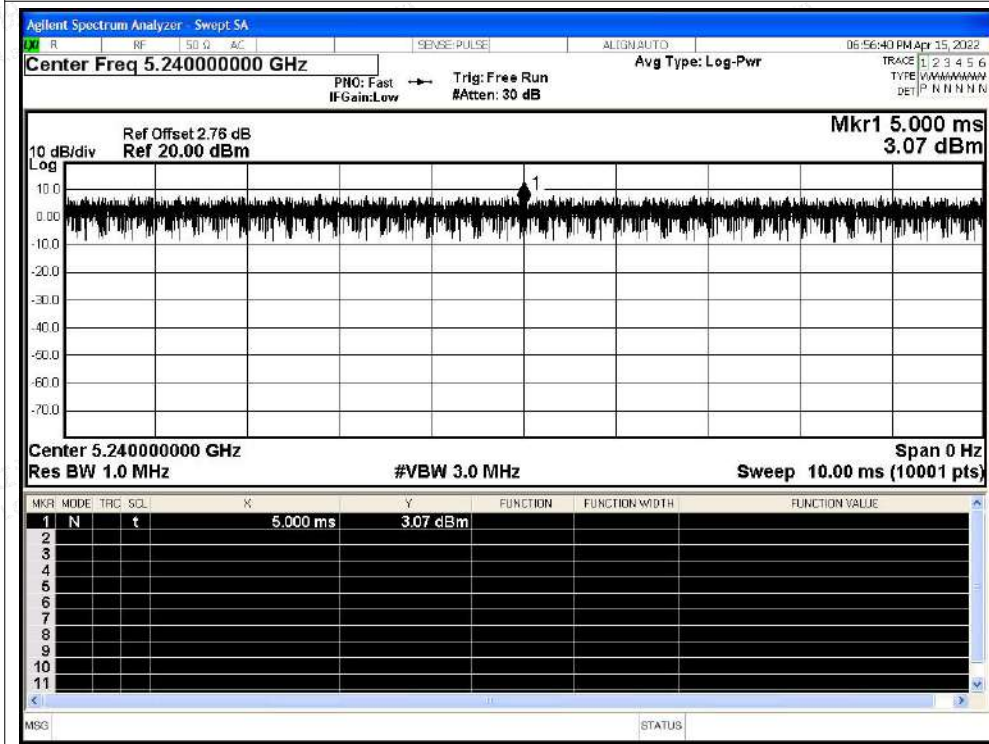
Scan code to check authenticity



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

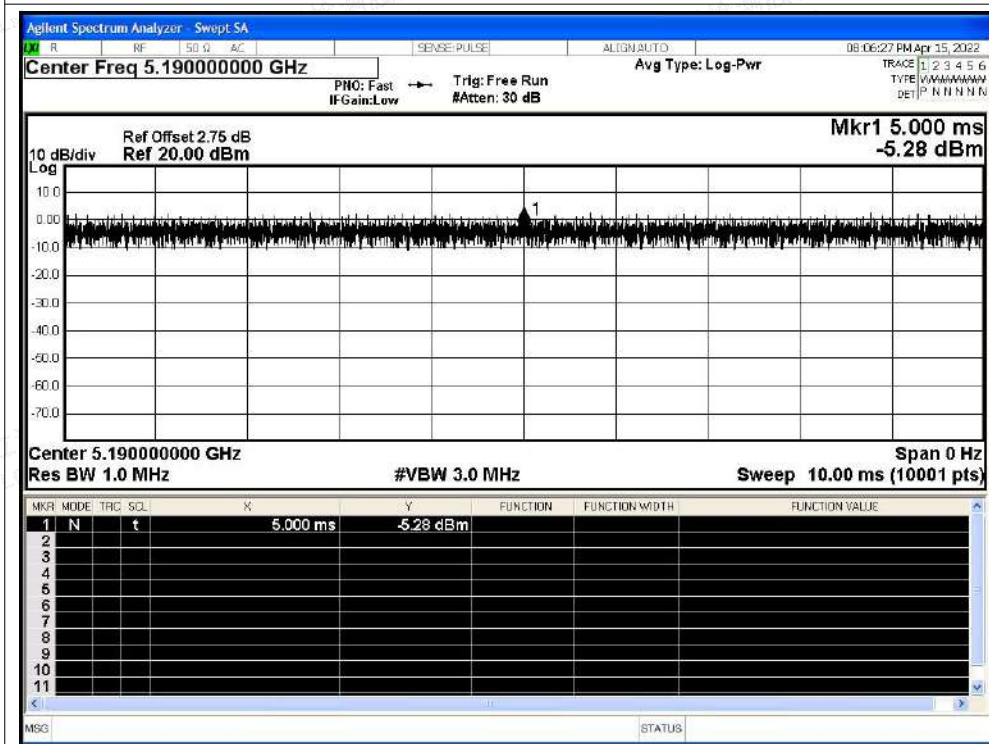
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

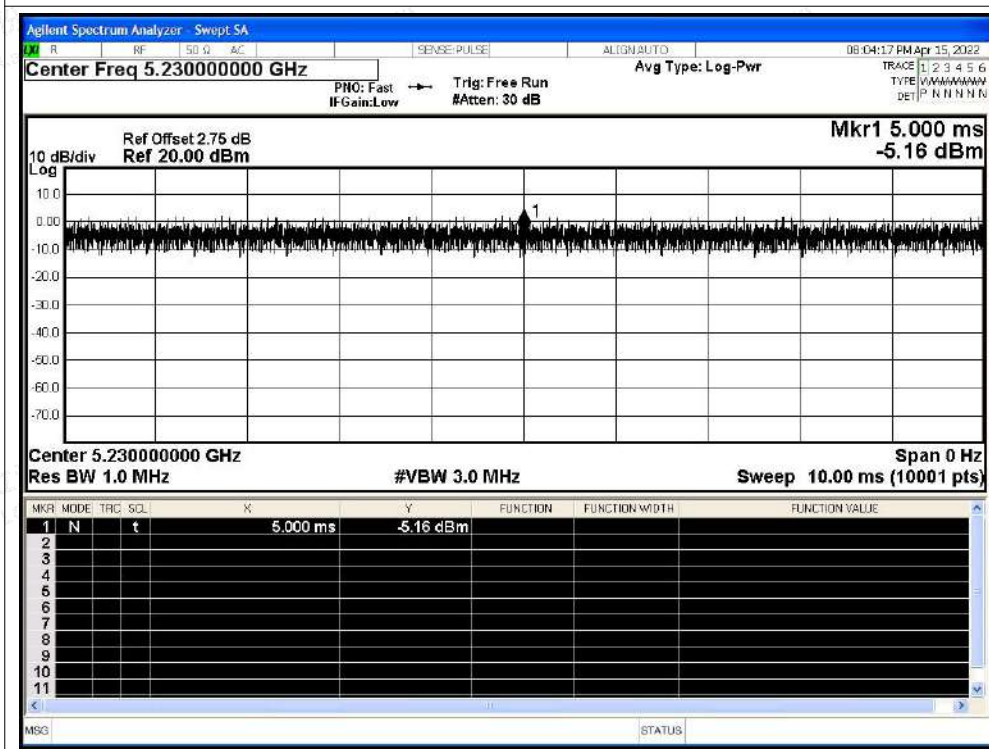
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

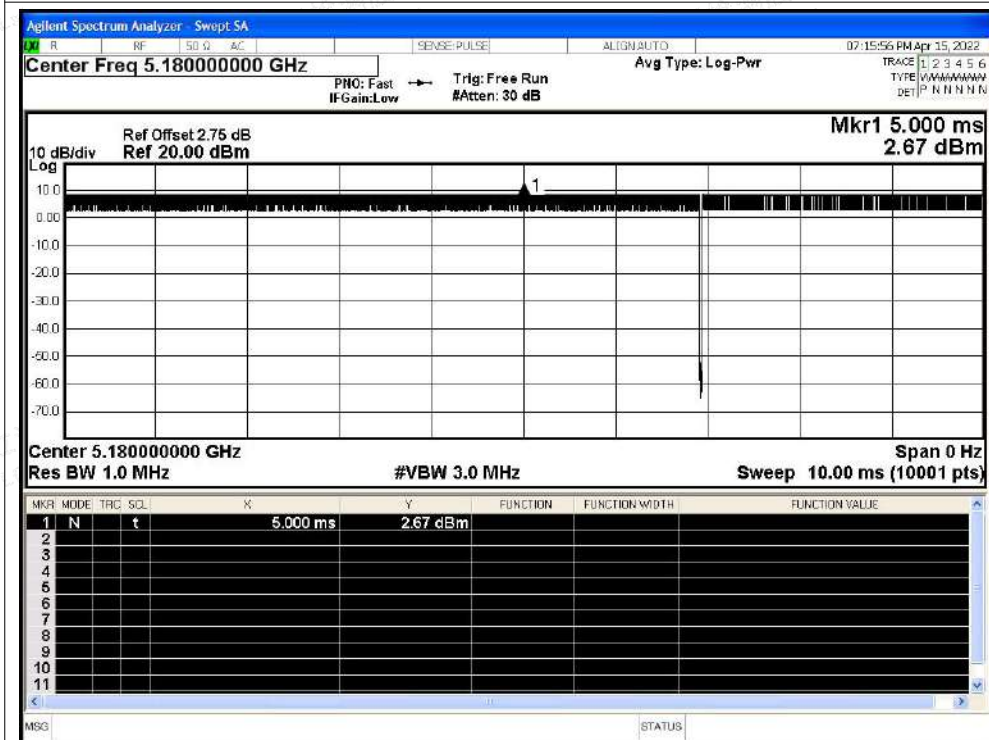
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

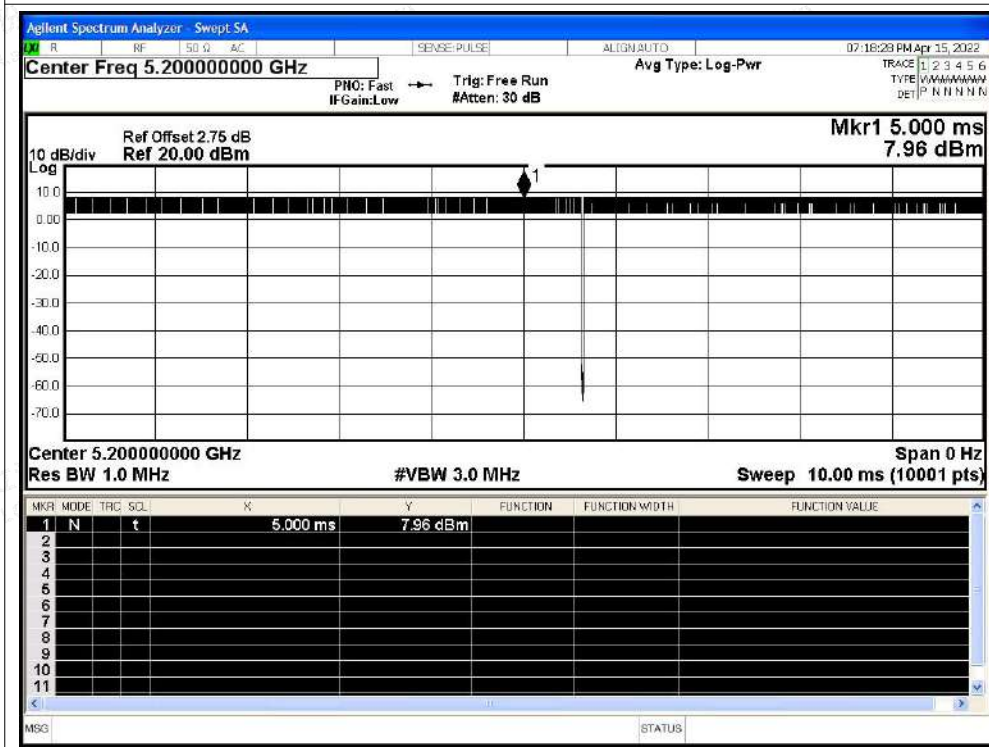
Scan code to check authenticity



Duty Cycle NVNT ac20 5180MHz Ant1



Duty Cycle NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

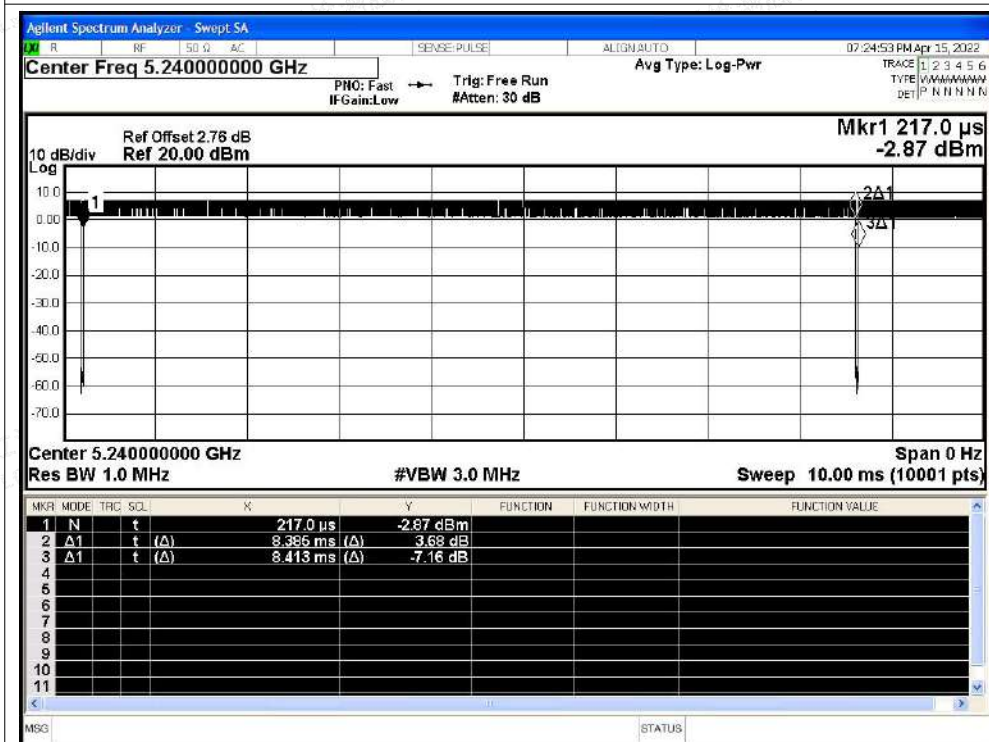
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

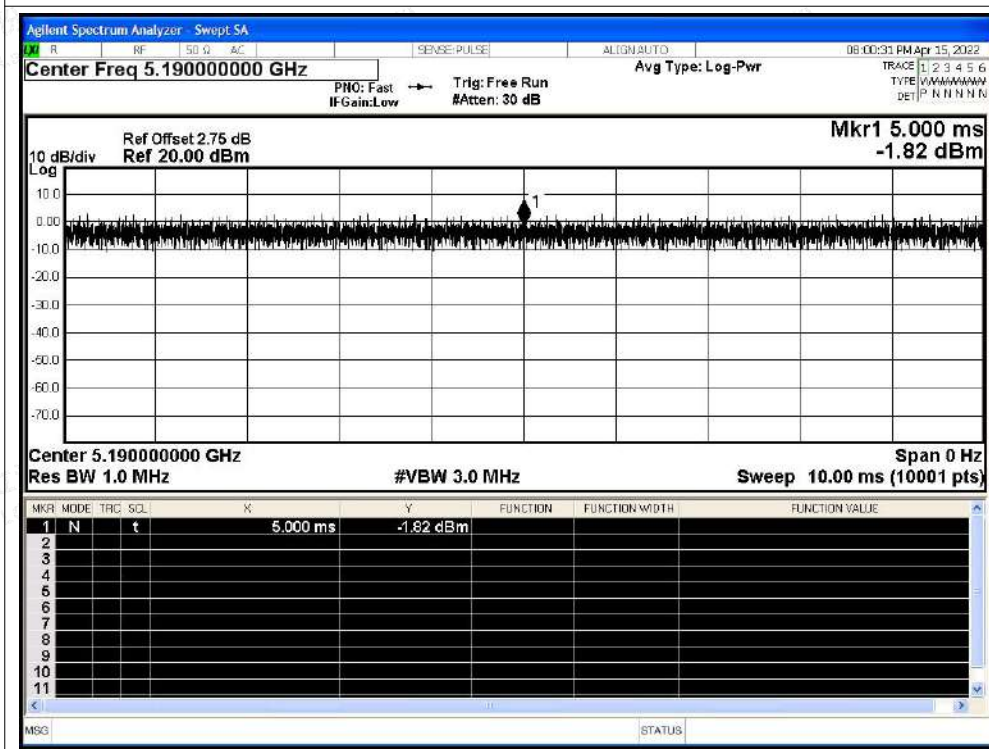
Scan code to check authenticity



Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1

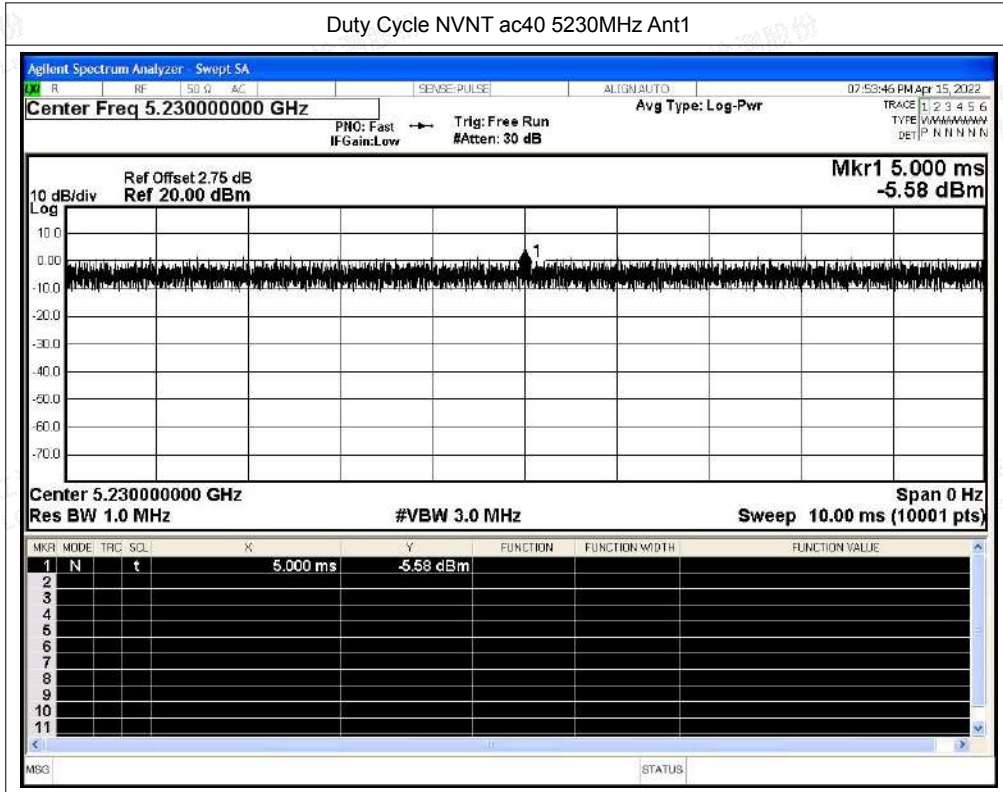


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## D.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant1	5180.04	40000	7.72	25	Pass
NVNT	ac20	5200	Ant1	5200.04	40000	7.69	25	Pass
NVNT	ac20	5240	Ant1	5240.04	40000	7.63	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass



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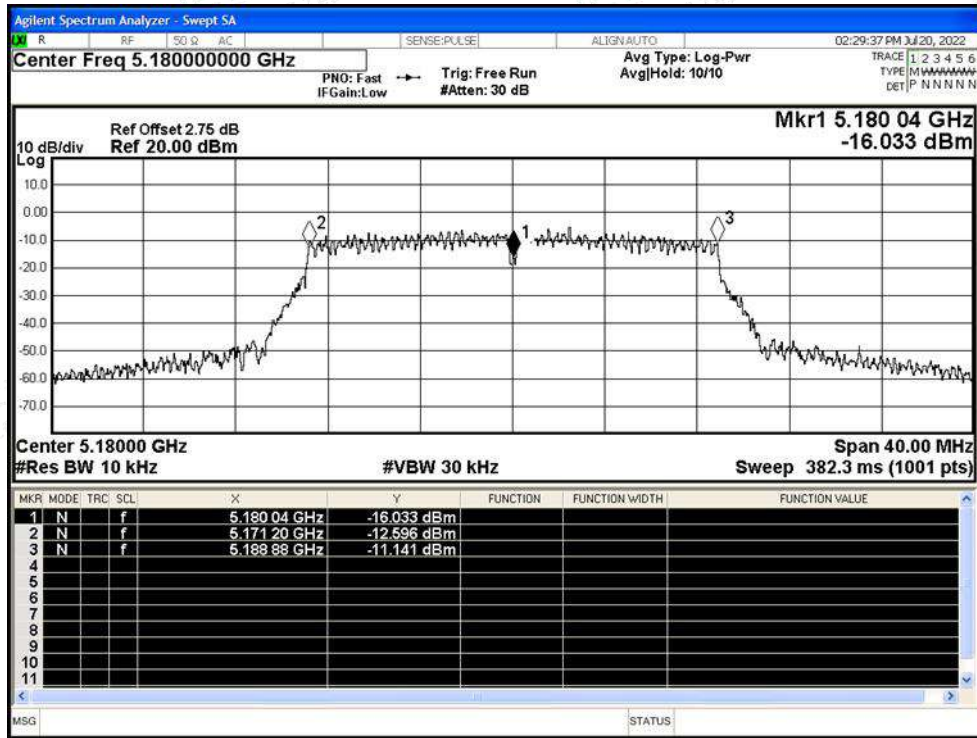
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

Scan code to check authenticity

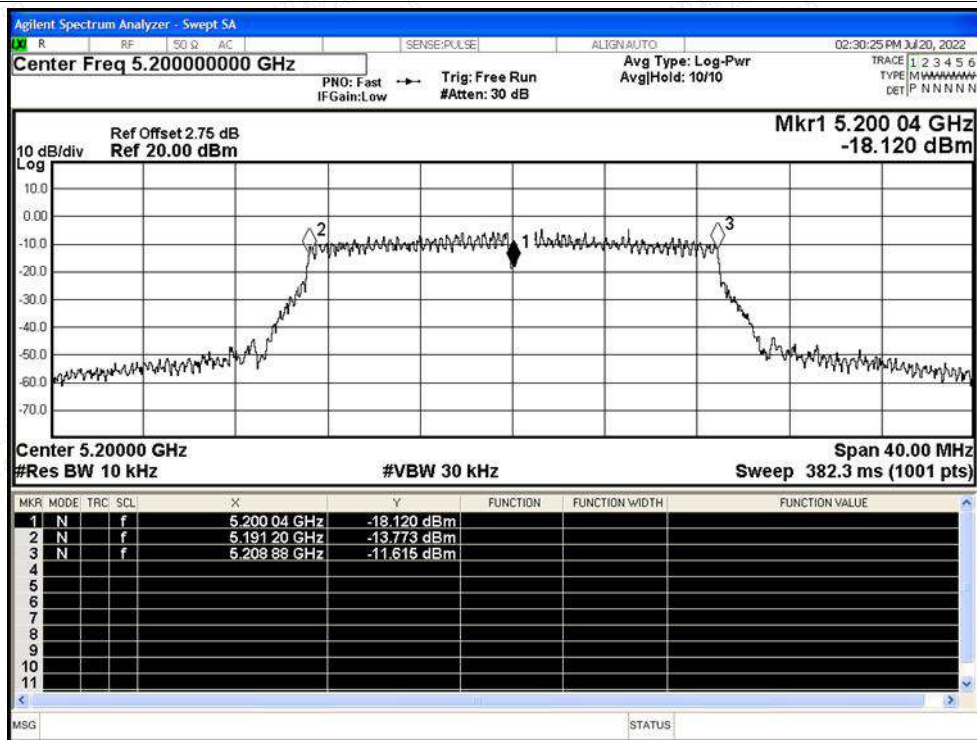


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 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

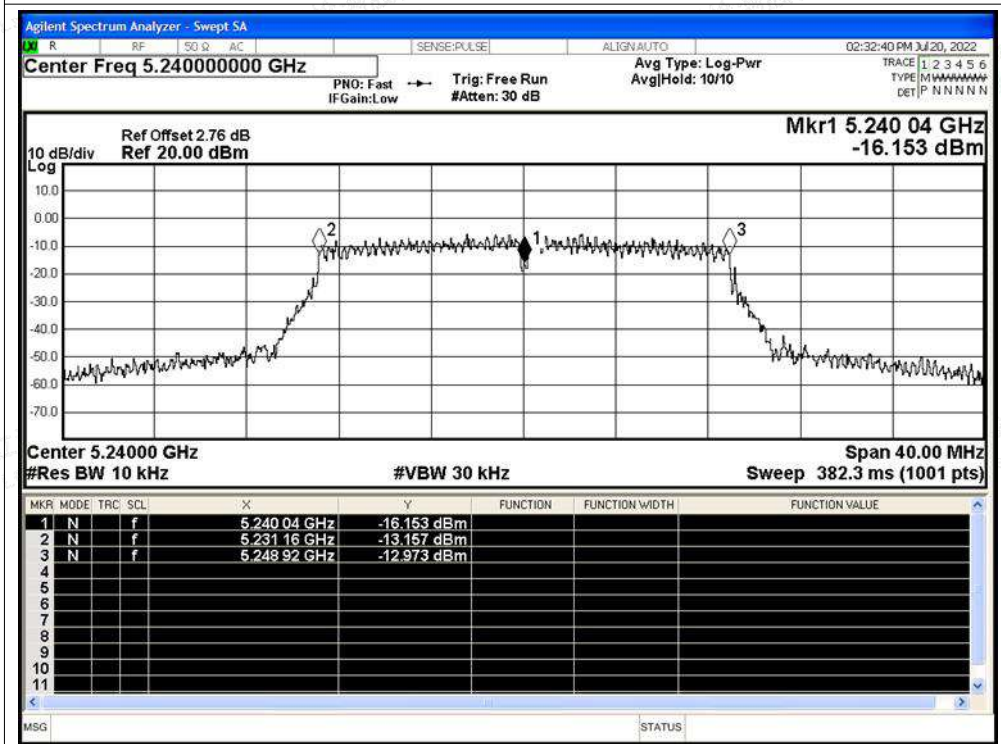
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

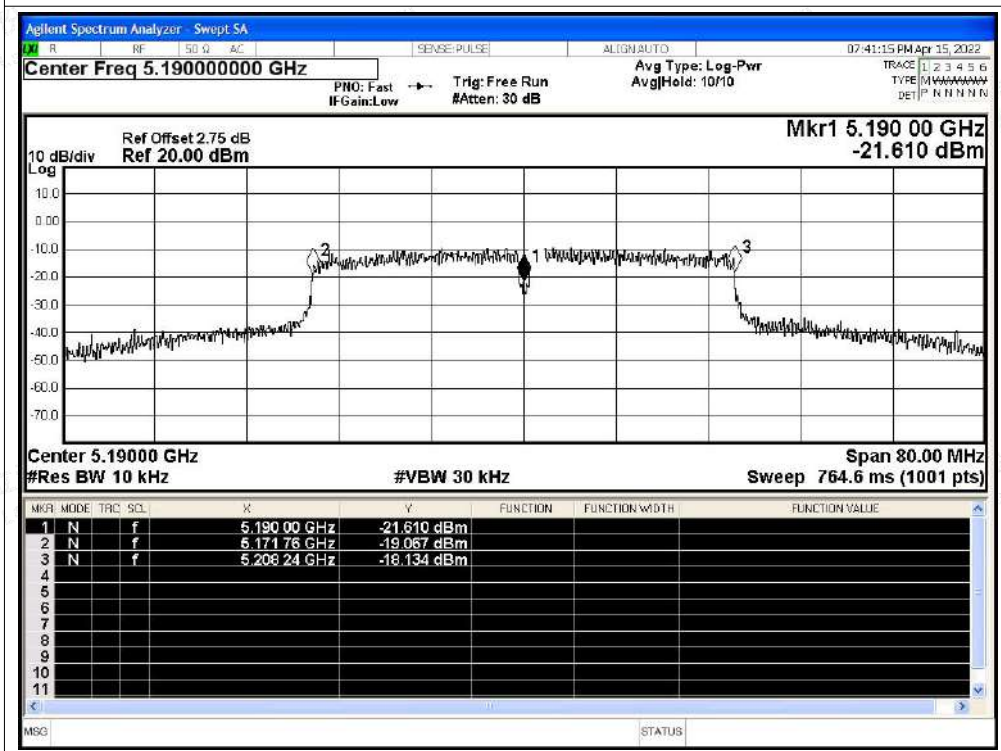




Freq. Stability NVNT ac20 5240MHz Ant1



Freq. Stability NVNT ac40 5190MHz Ant1

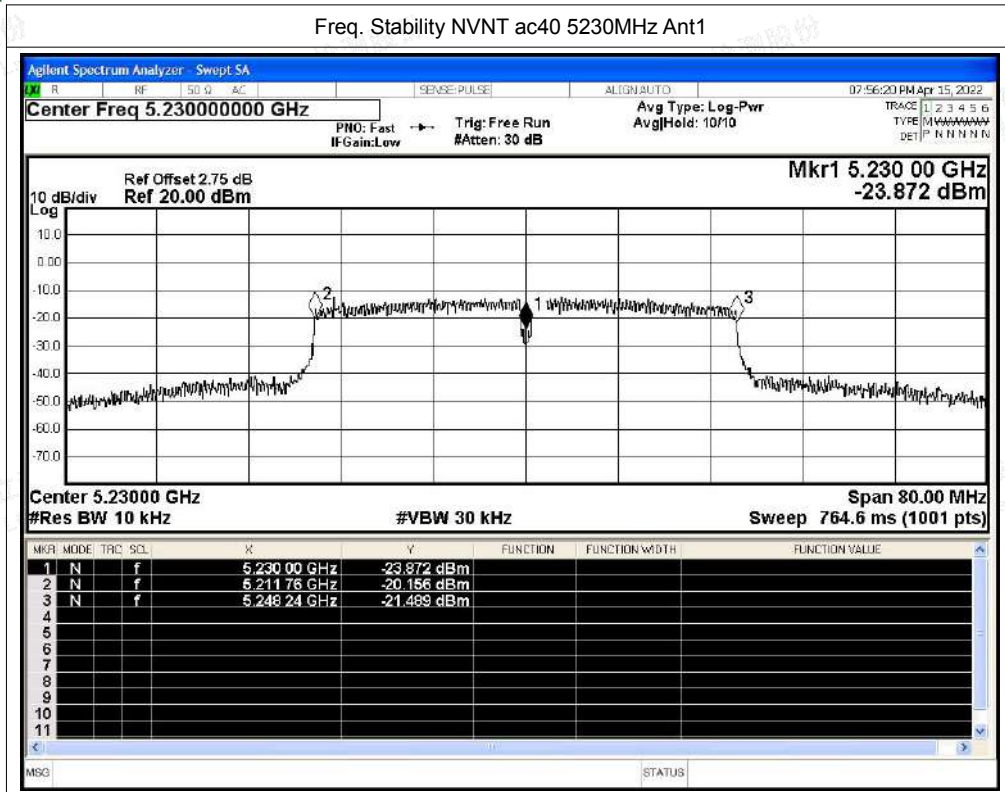


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