



Appendix B

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Sample BKW-WF122

Test Model: WF122

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li huan



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B.1 26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Limit 26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	24.815	No limit	Pass
NVNT	a	5300	Ant1	25.732	No limit	Pass
NVNT	a	5320	Ant1	23.001	No limit	Pass
NVNT	n20	5260	Ant1	21.574	No limit	Pass
NVNT	n20	5300	Ant1	23.056	No limit	Pass
NVNT	n20	5320	Ant1	25.96	No limit	Pass
NVNT	n40	5270	Ant1	54.104	No limit	Pass
NVNT	n40	5310	Ant1	42.39	No limit	Pass
NVNT	ac20	5260	Ant1	21.618	No limit	Pass
NVNT	ac20	5300	Ant1	22.686	No limit	Pass
NVNT	ac20	5320	Ant1	25.862	No limit	Pass
NVNT	ac40	5270	Ant1	48.513	No limit	Pass
NVNT	ac40	5310	Ant1	42.596	No limit	Pass
NVNT	ac80	5290	Ant1	99.645	No limit	Pass



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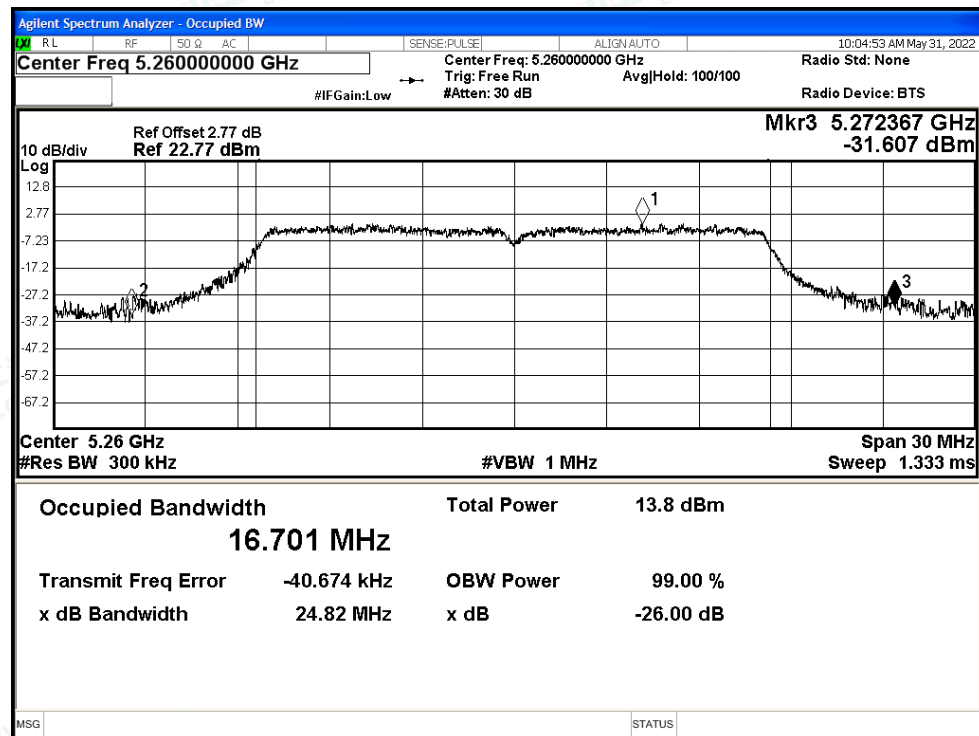
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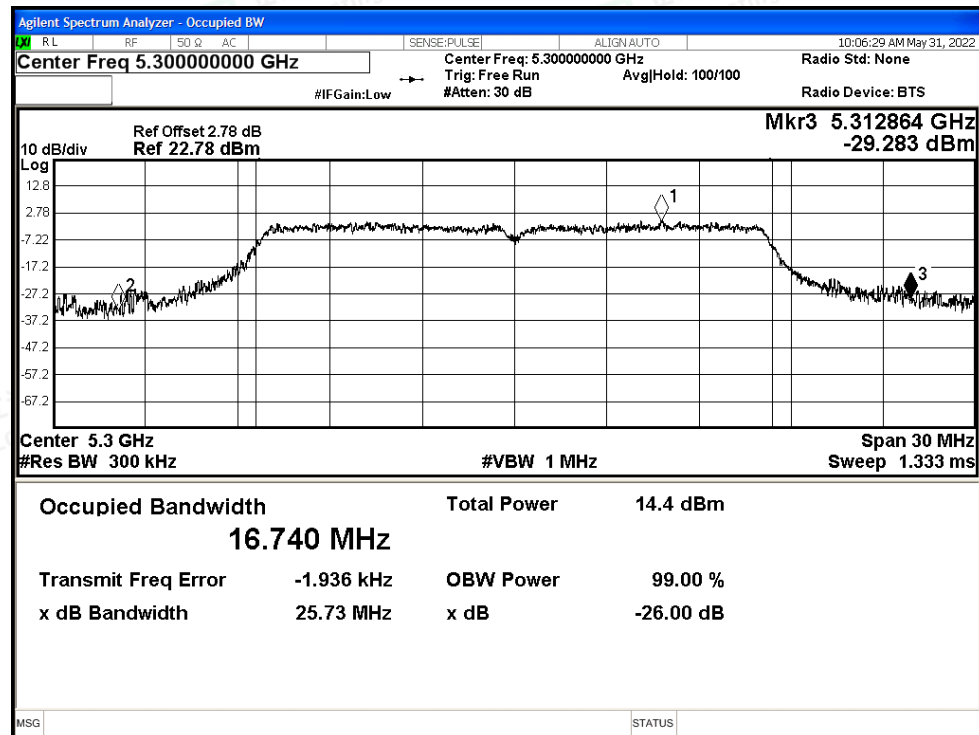


Test Graphs

26dB Bandwidth NVNT a 5260MHz Ant1



26dB Bandwidth NVNT a 5300MHz Ant1



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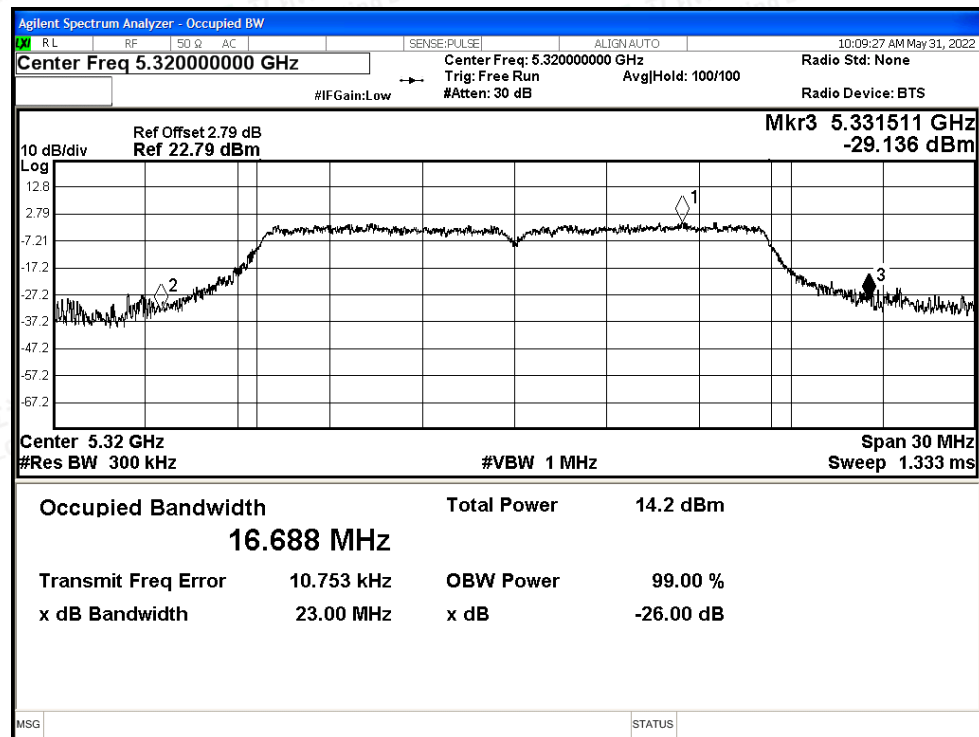
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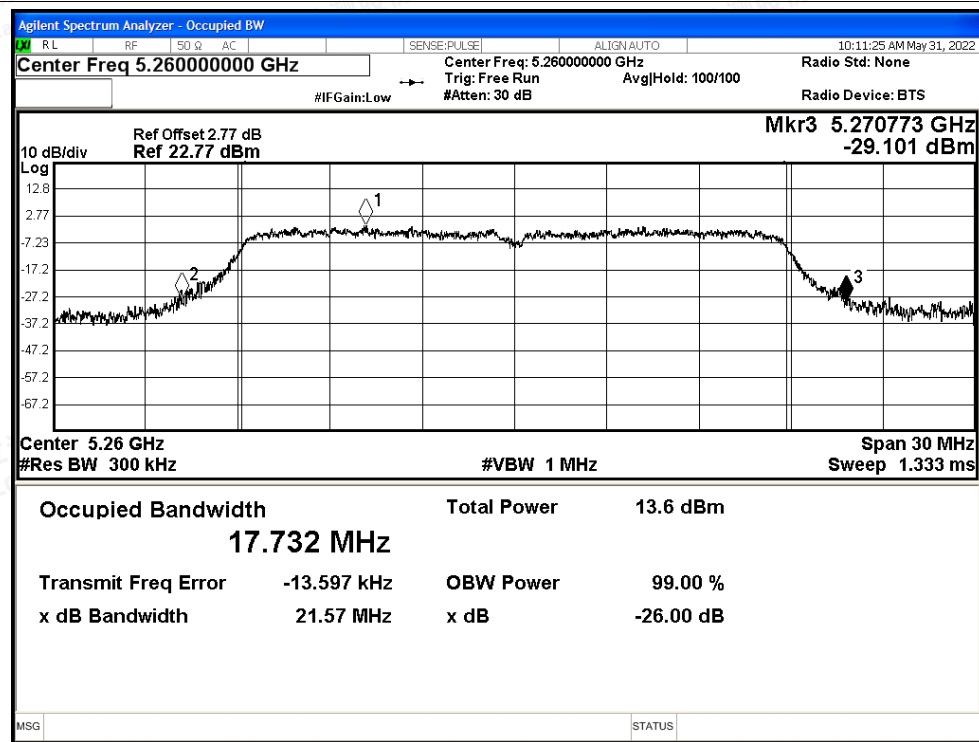
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26dB Bandwidth NVNT a 5320MHz Ant1



26dB Bandwidth NVNT n20 5260MHz Ant1



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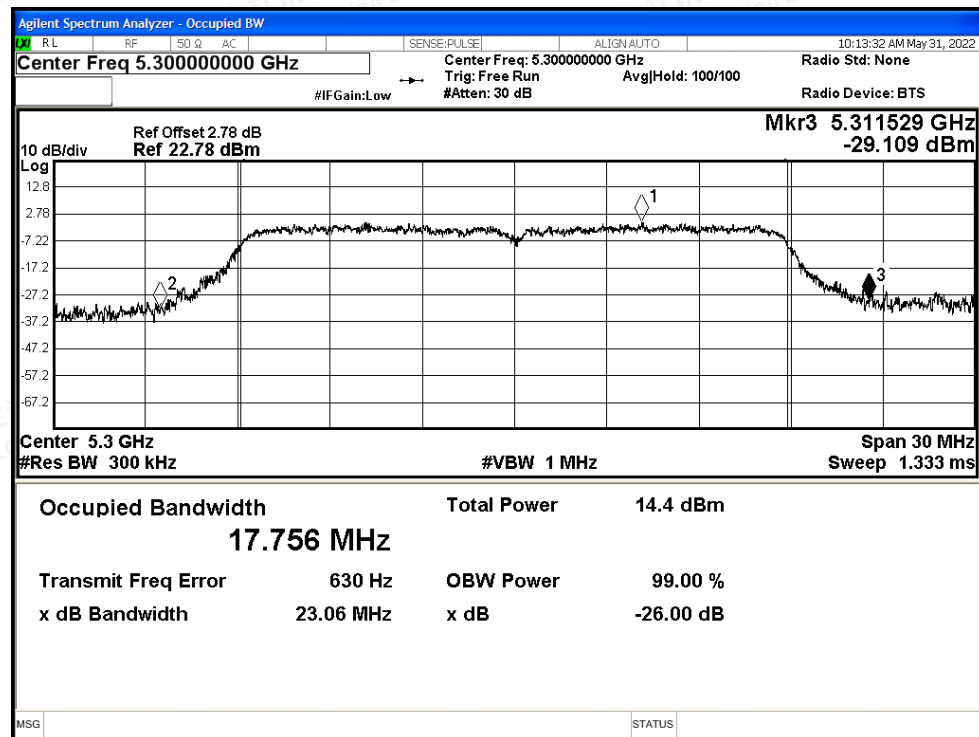
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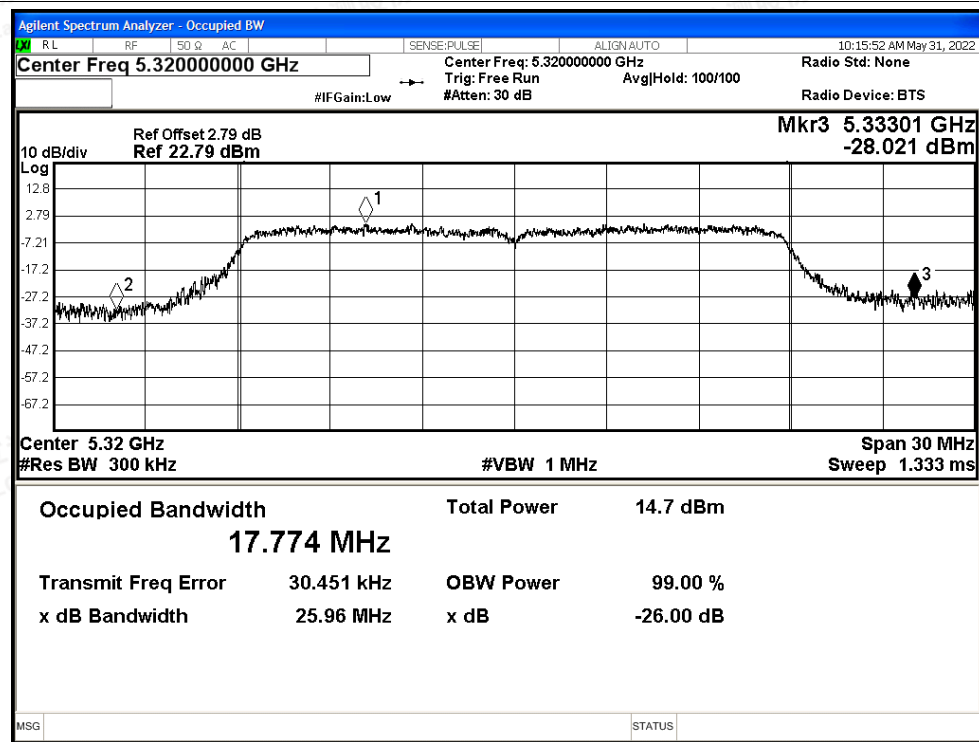
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26dB Bandwidth NVNT n20 5300MHz Ant1



26dB Bandwidth NVNT n20 5320MHz Ant1



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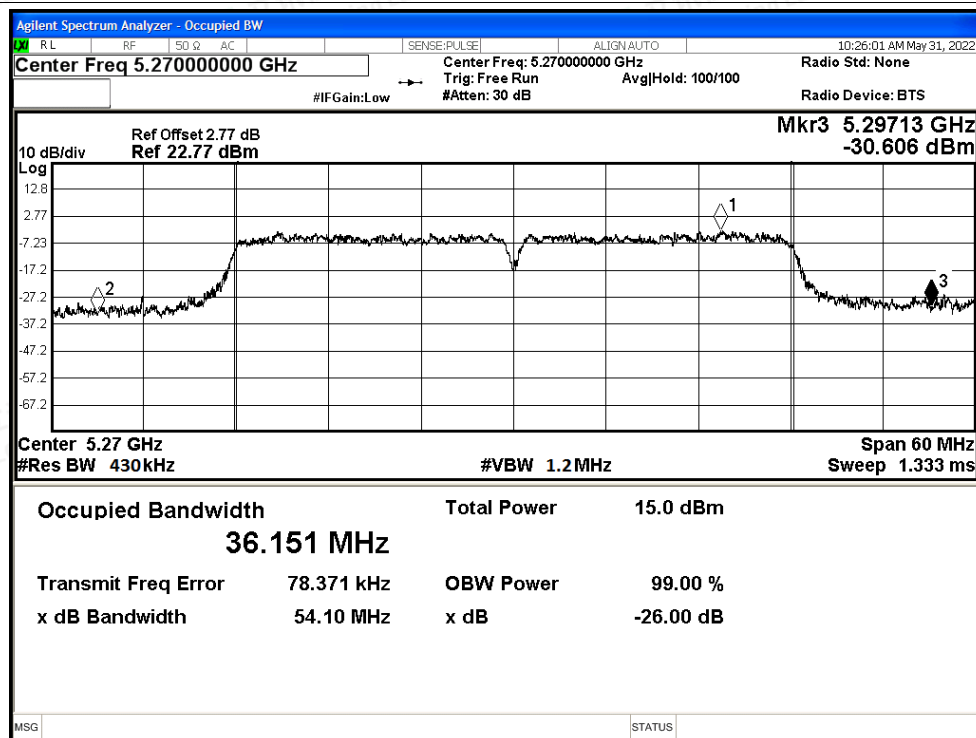
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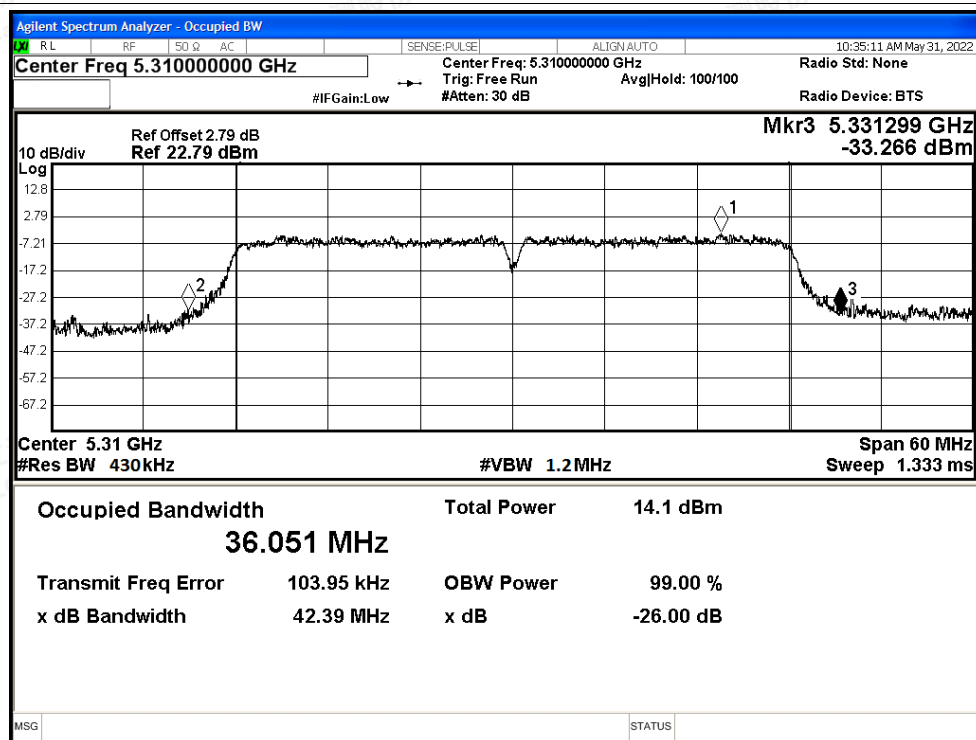
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26dB Bandwidth NVNT n40 5270MHz Ant1



26dB Bandwidth NVNT n40 5310MHz Ant1



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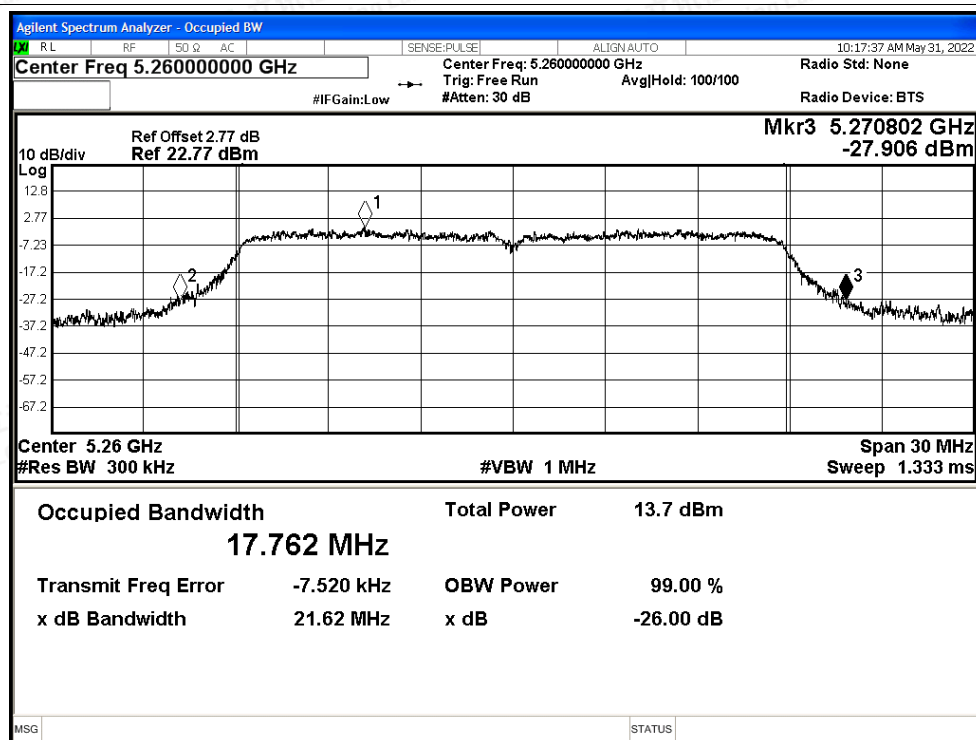
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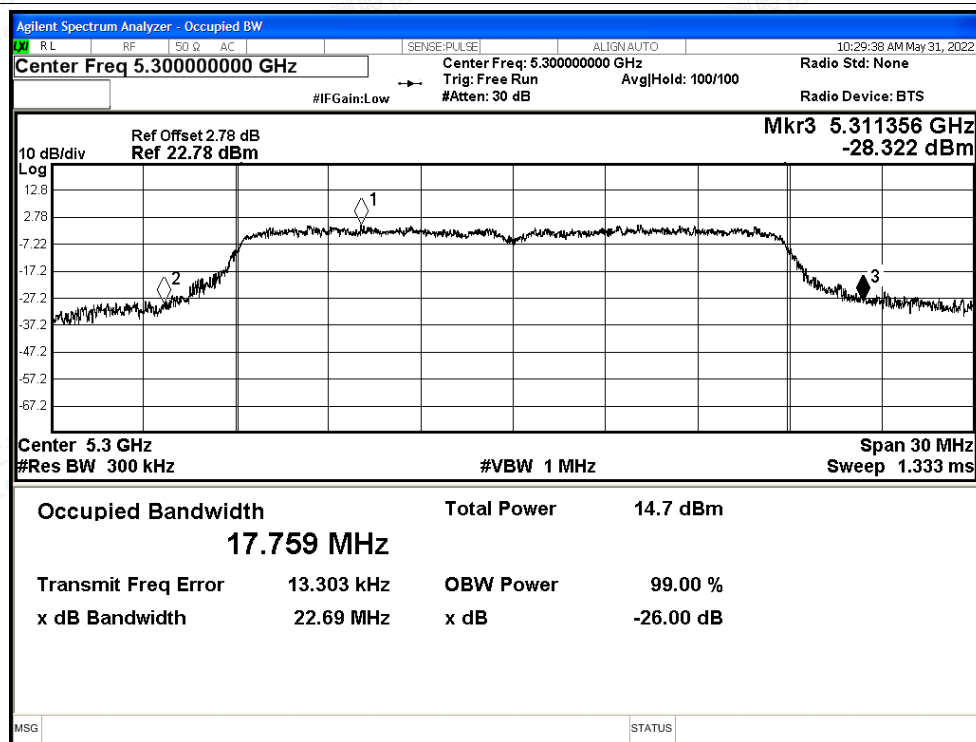
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-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1



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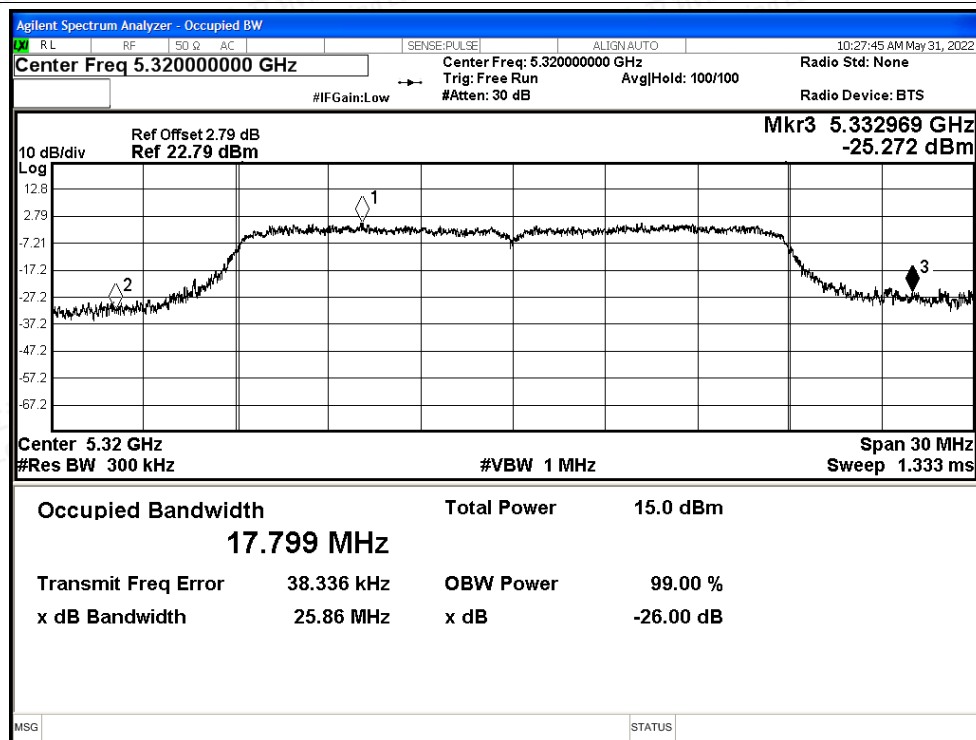
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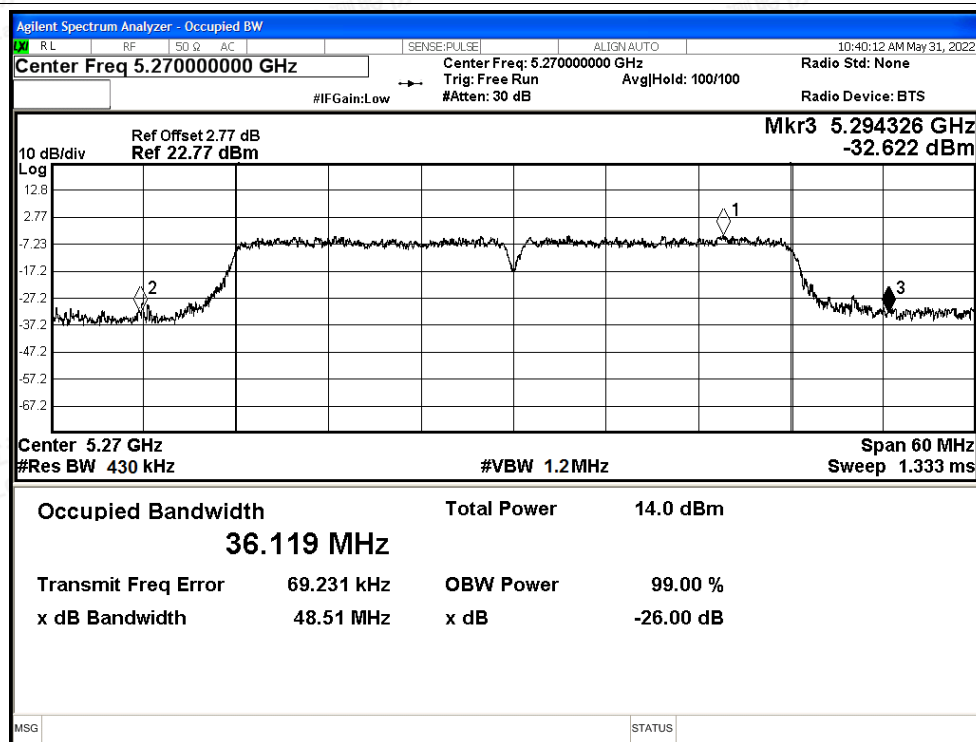
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-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



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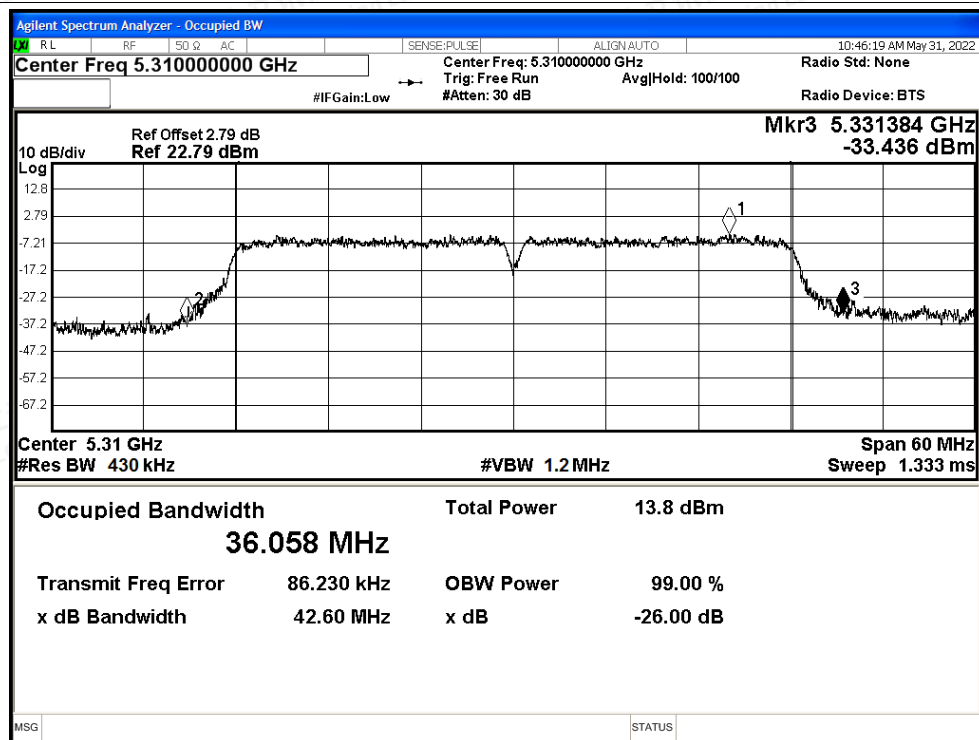
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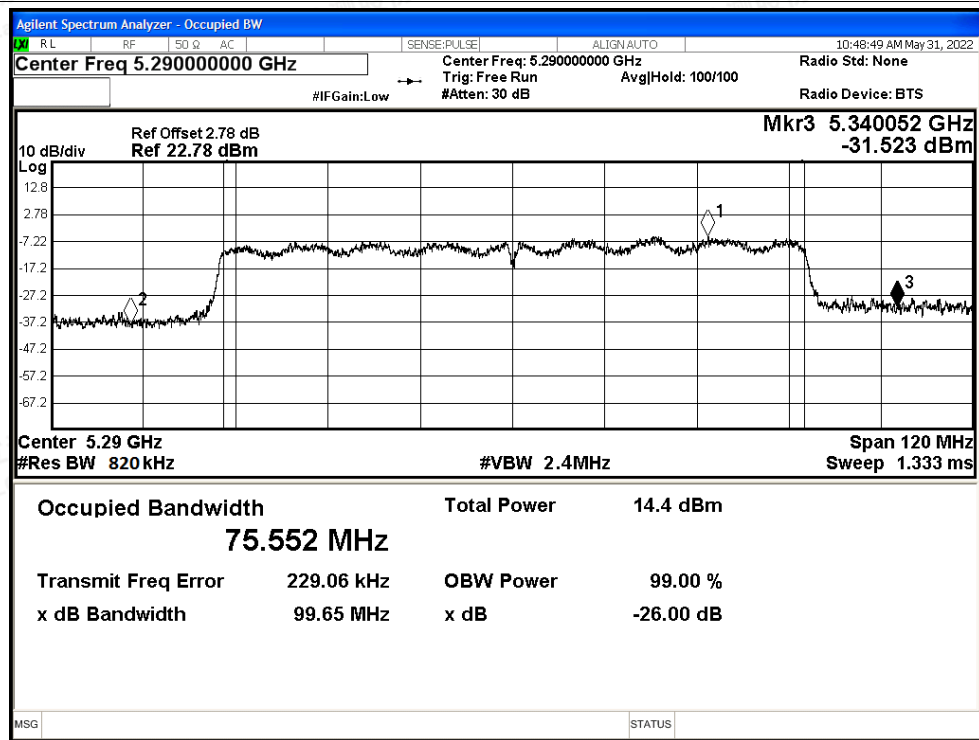
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-26dB Bandwidth NVNT ac40 5310MHz Ant1



26dB Bandwidth NVNT ac80 5290MHz Ant1



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B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.554
NVNT	a	5300	Ant1	16.581
NVNT	a	5320	Ant1	16.555
NVNT	n20	5260	Ant1	17.662
NVNT	n20	5300	Ant1	17.674
NVNT	n20	5320	Ant1	17.694
NVNT	n40	5270	Ant1	36.286
NVNT	n40	5310	Ant1	36.117
NVNT	ac20	5260	Ant1	17.669
NVNT	ac20	5300	Ant1	17.691
NVNT	ac20	5320	Ant1	17.725
NVNT	ac40	5270	Ant1	36.174
NVNT	ac40	5310	Ant1	36.115
NVNT	ac80	5290	Ant1	75.621



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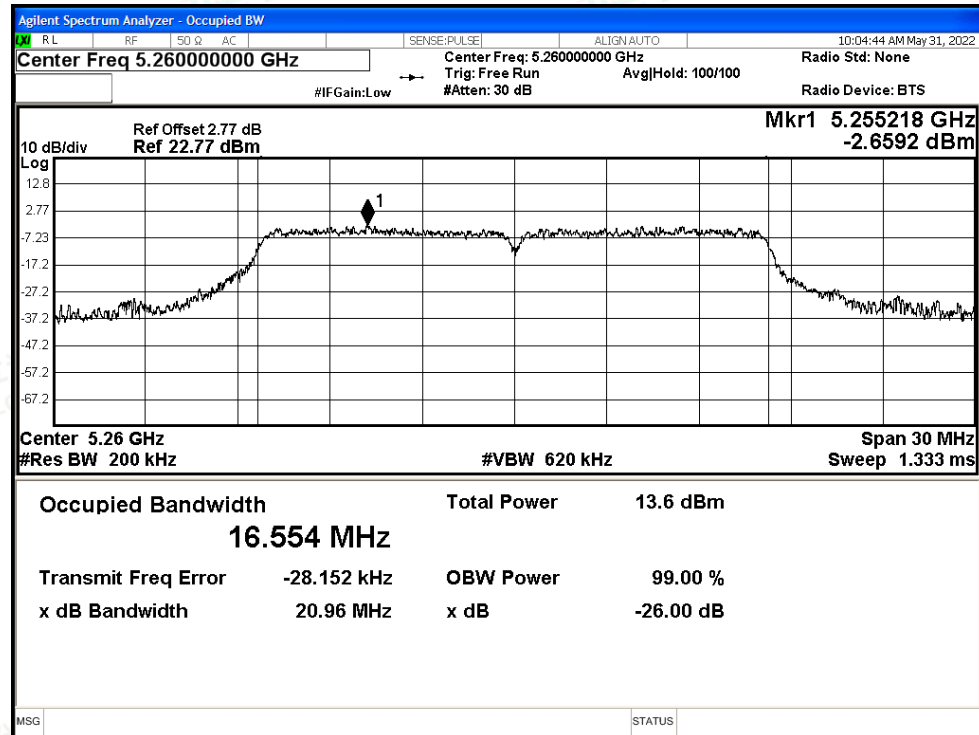
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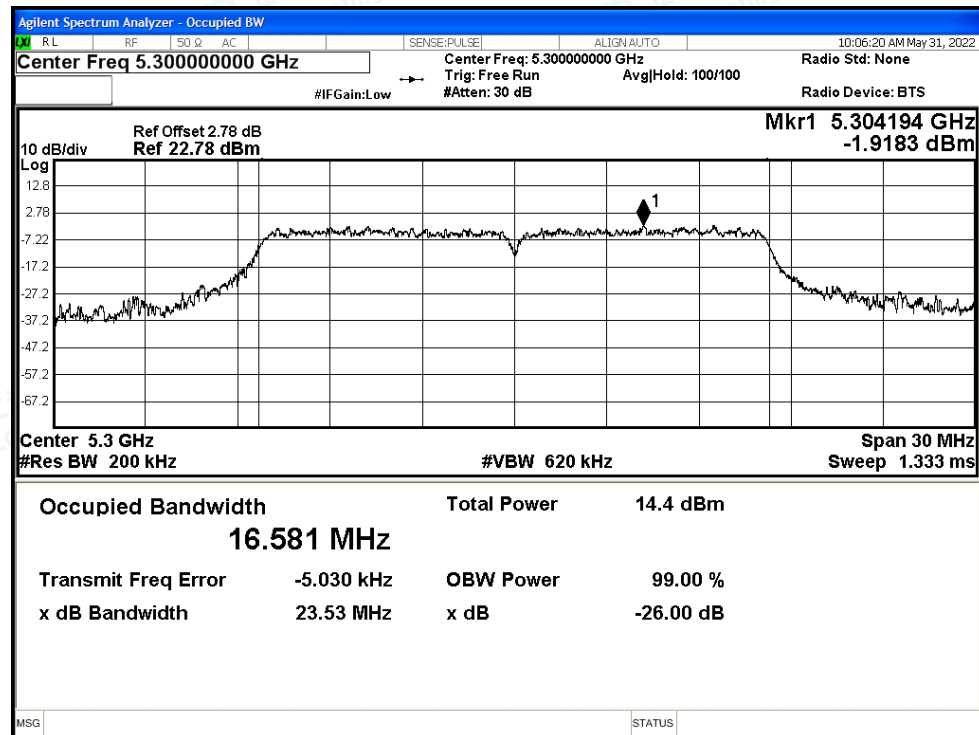


Test Graphs

OBW NVNT a 5260MHz Ant1



OBW NVNT a 5300MHz Ant1



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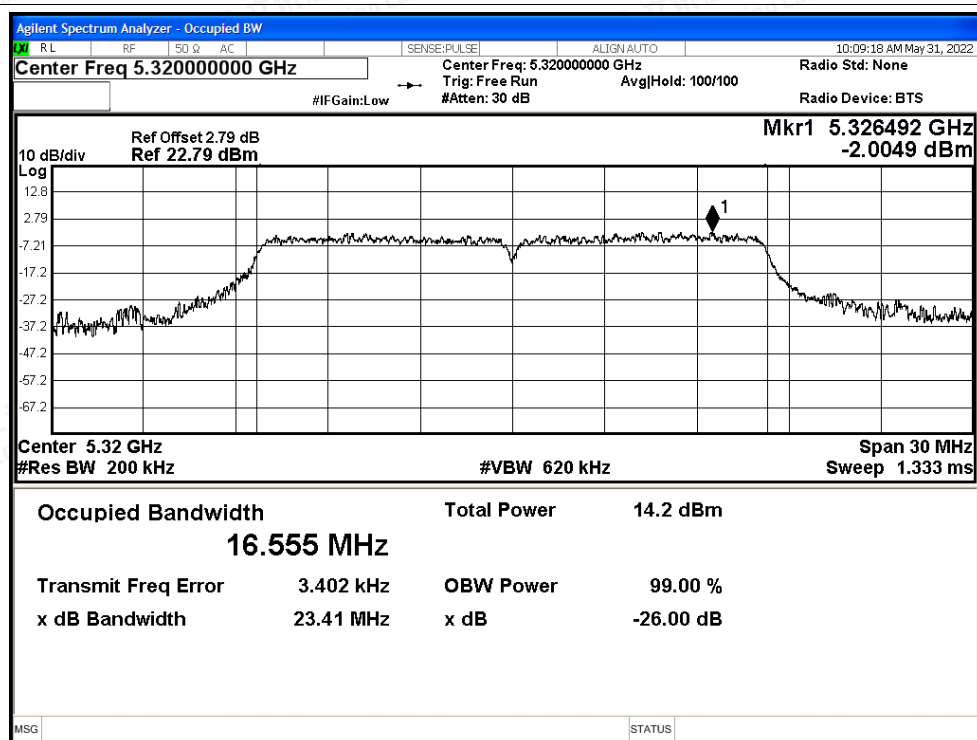
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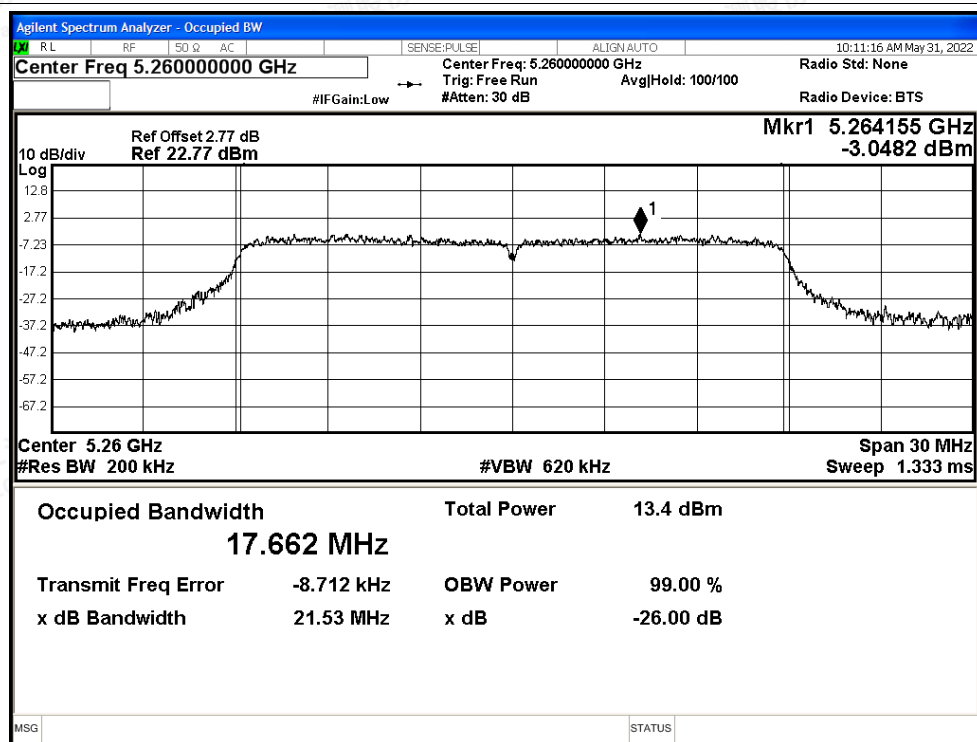
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OBW NVNT a 5320MHz Ant1



OBW NVNT n20 5260MHz Ant1

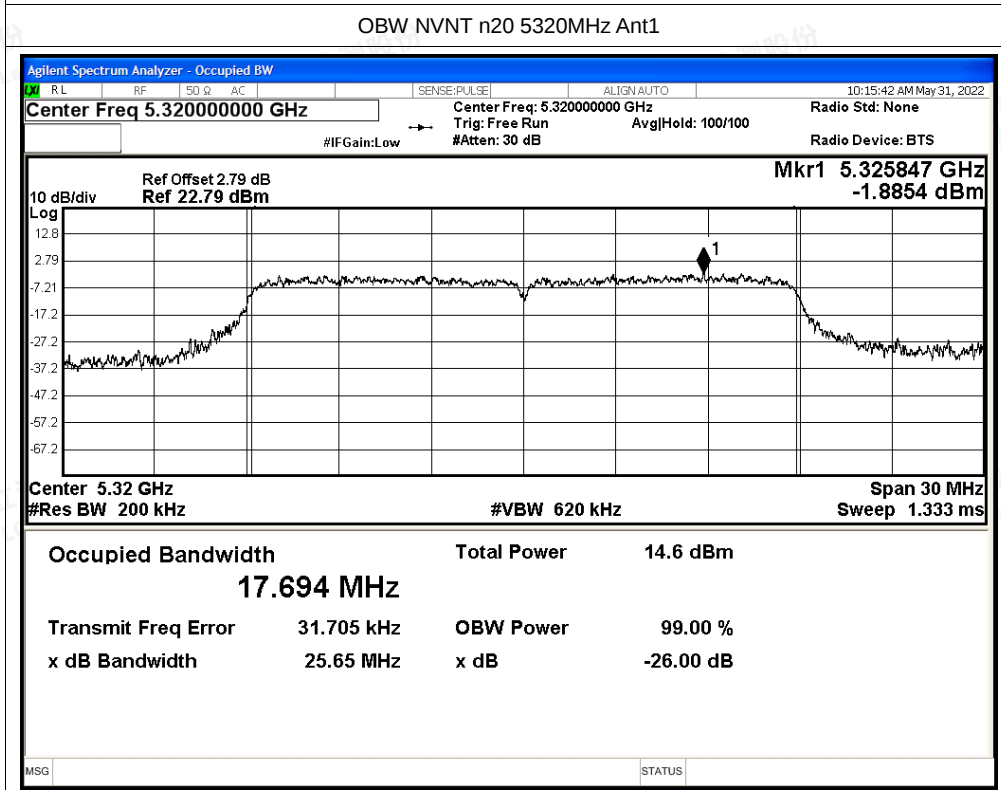
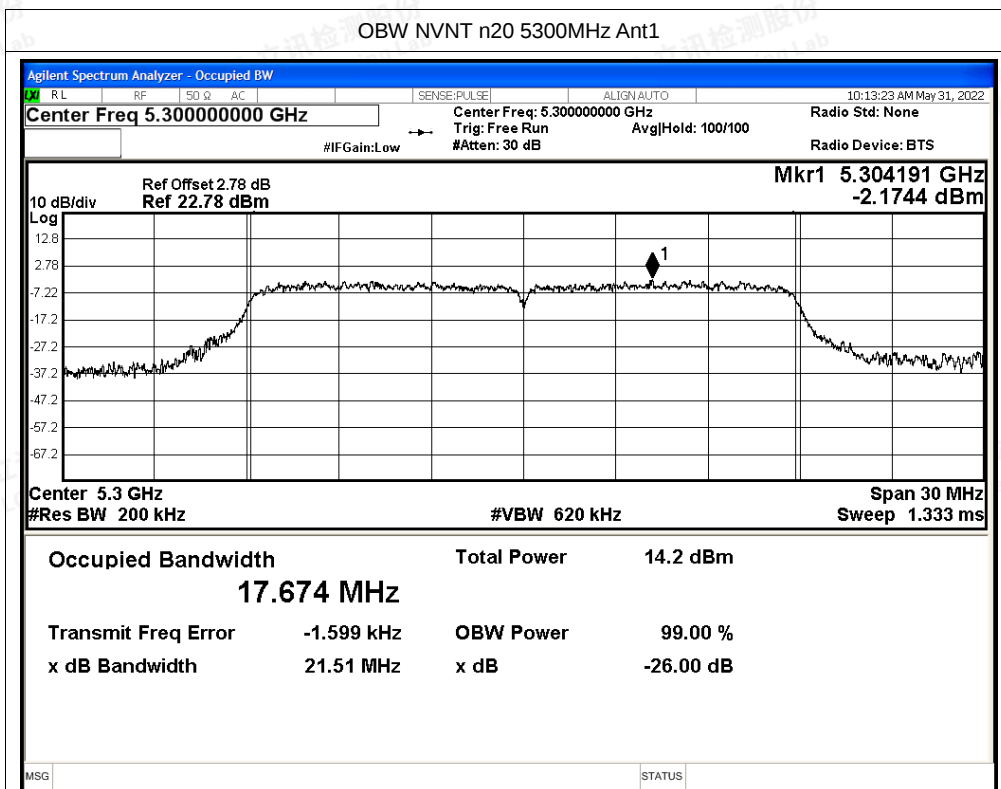


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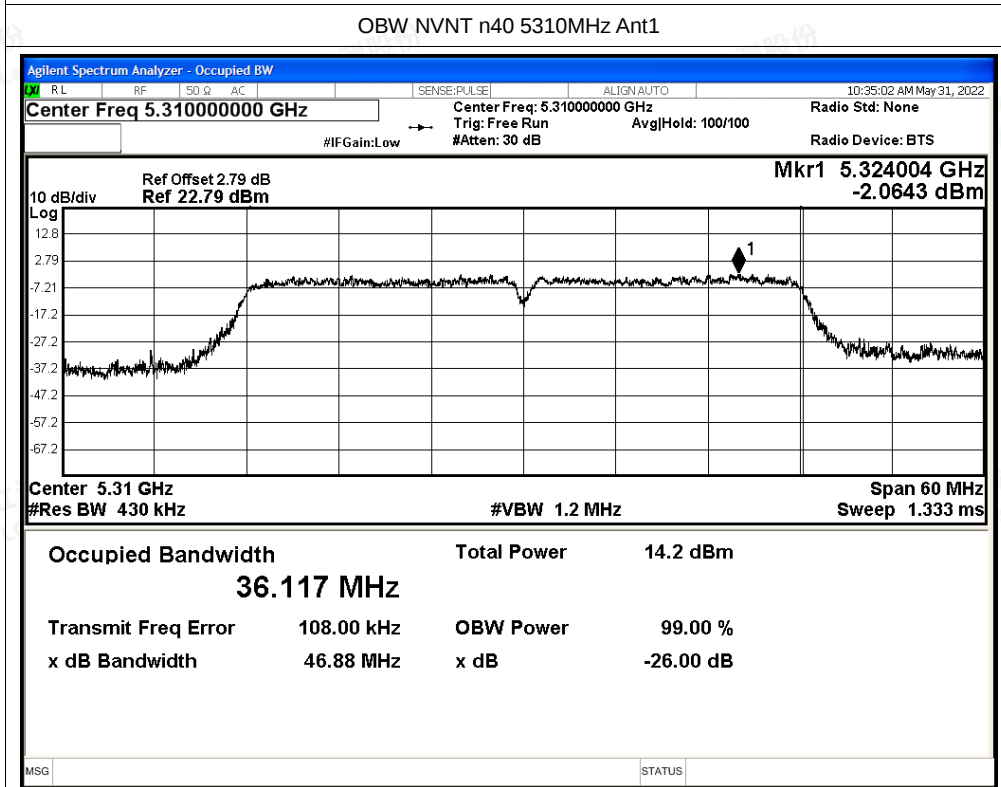
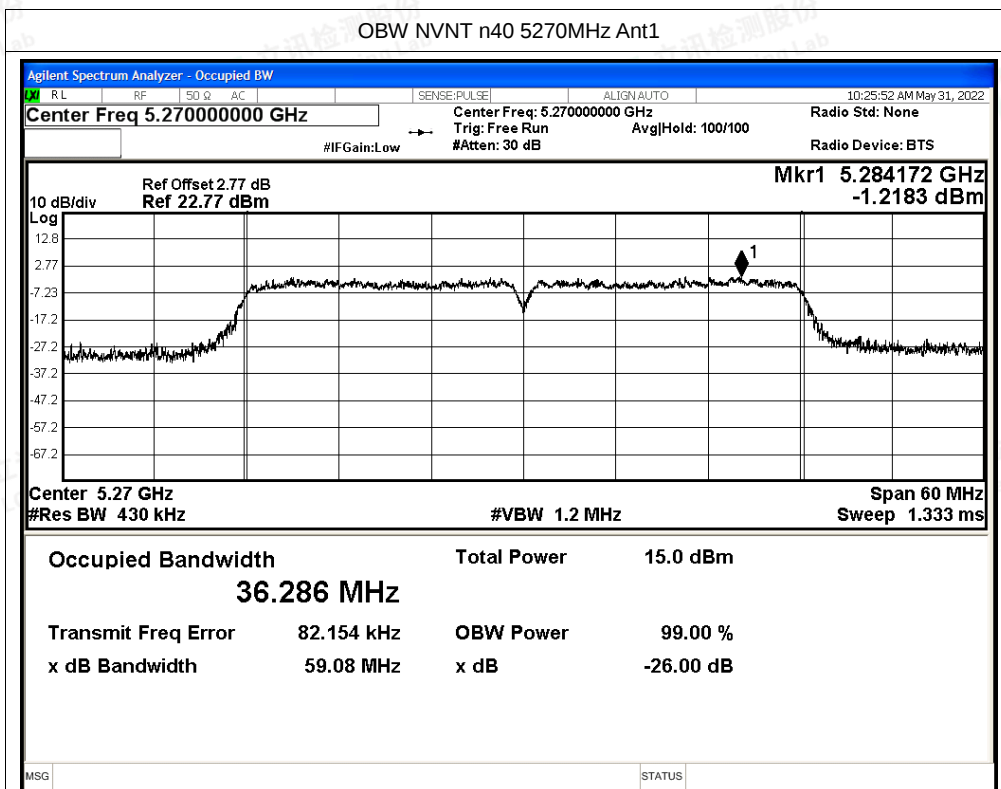


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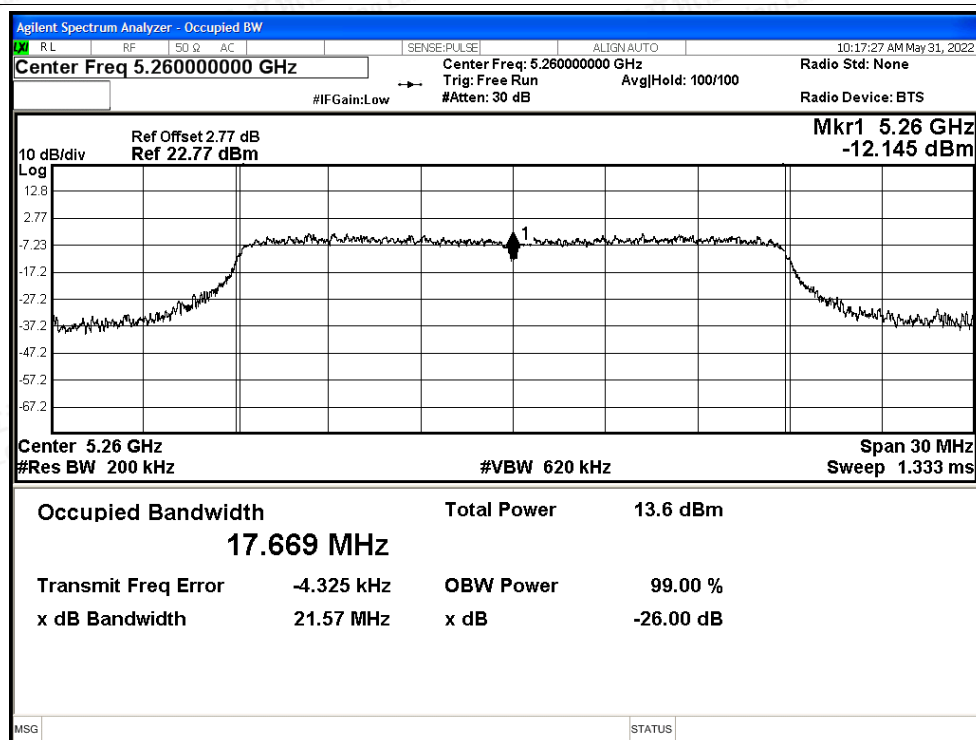
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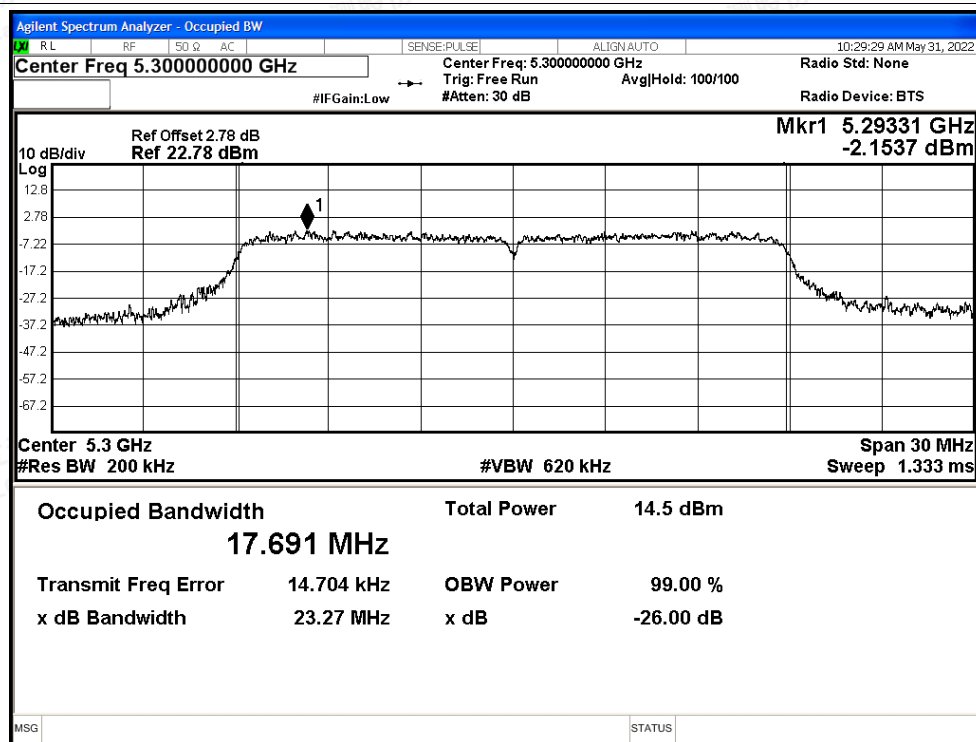
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OBW NVNT ac20 5260MHz Ant1



OBW NVNT ac20 5300MHz Ant1



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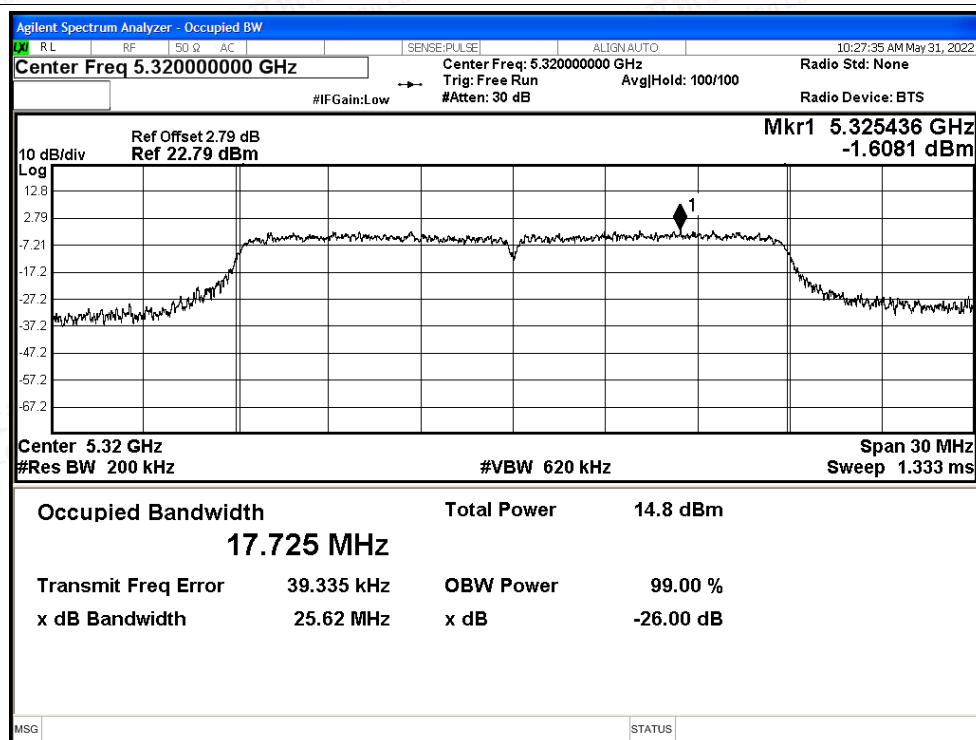
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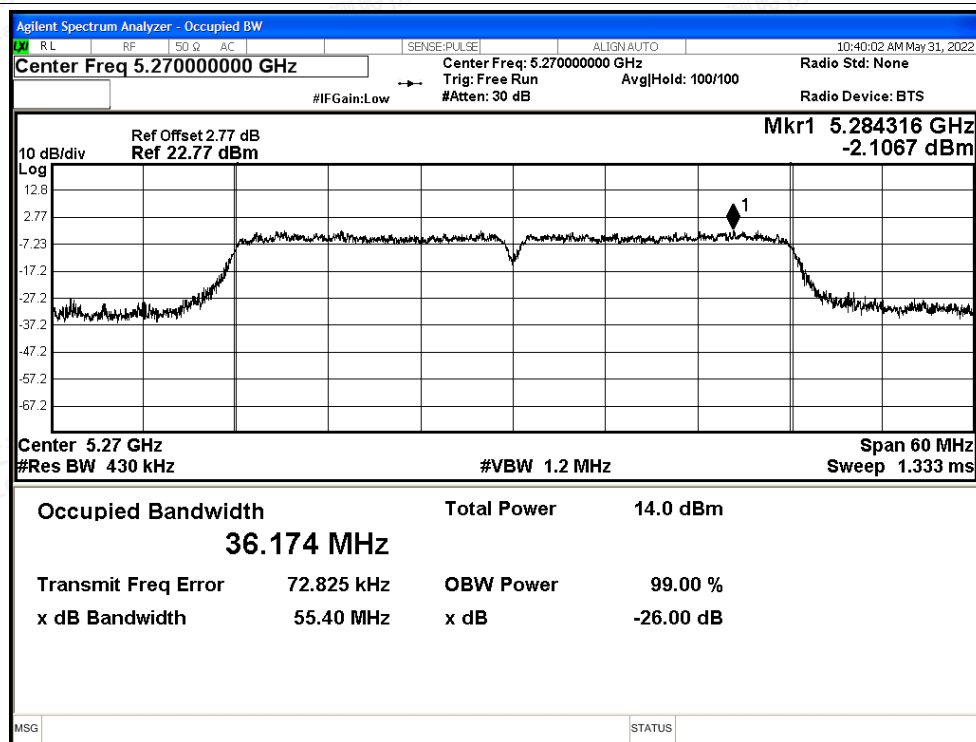
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OBW NVNT ac20 5320MHz Ant1



OBW NVNT ac40 5270MHz Ant1



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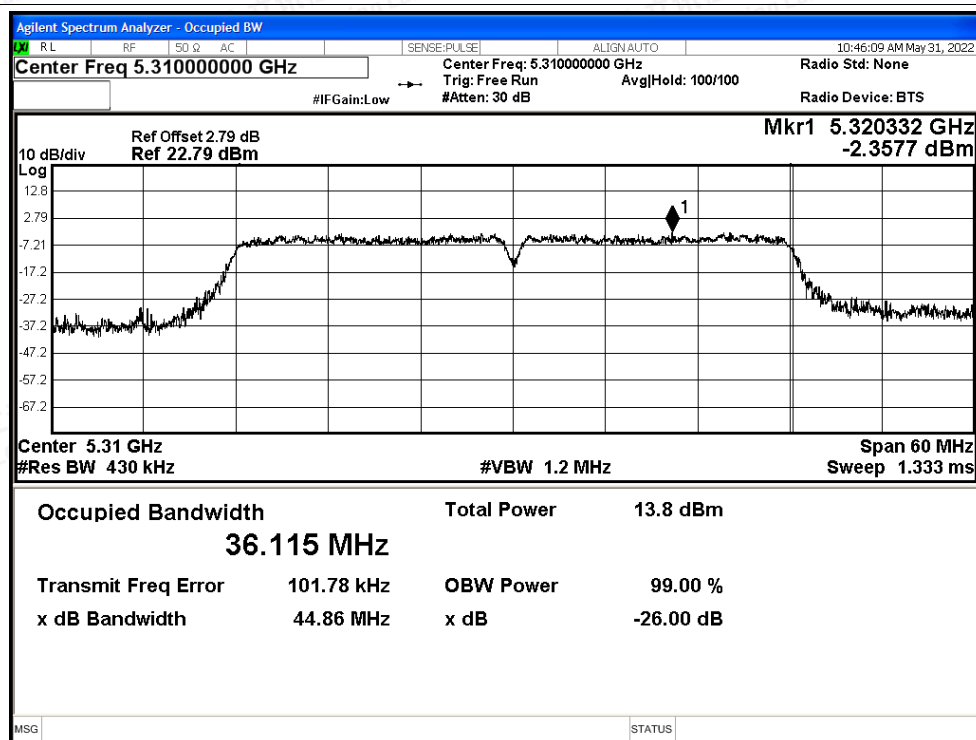
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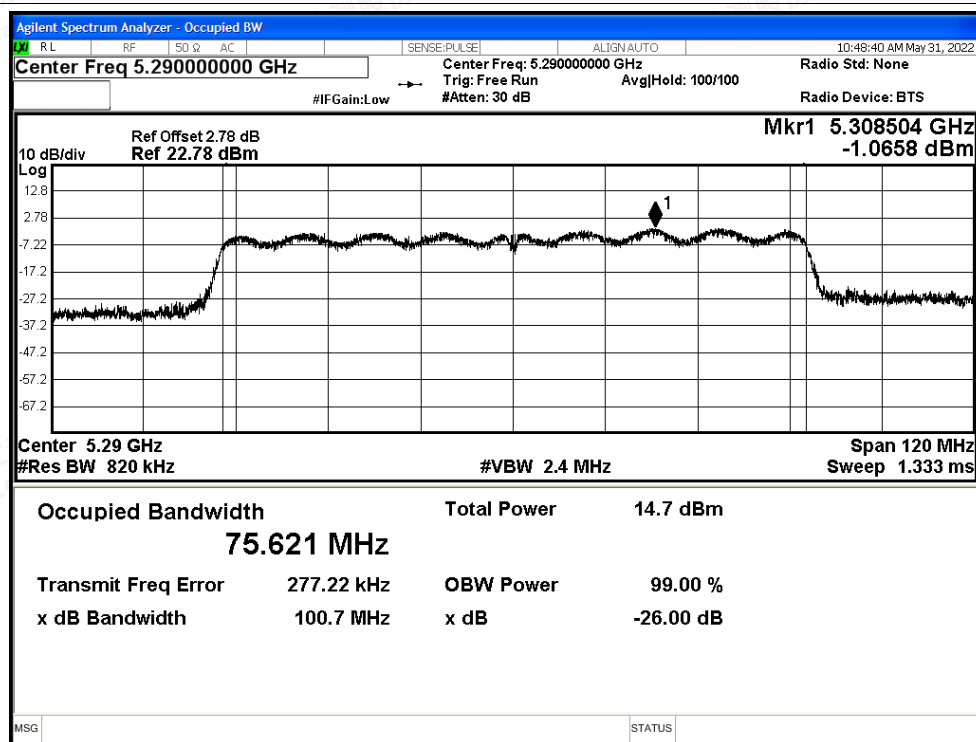
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OBW NVNT ac40 5310MHz Ant1



OBW NVNT ac80 5290MHz Ant1



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B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	8.66	0	8.66	24	Pass
NVNT	a	5300	Ant1	9.08	0	9.08	24	Pass
NVNT	a	5320	Ant1	8.81	0	8.81	24	Pass
NVNT	n20	5260	Ant1	8.39	0	8.39	24	Pass
NVNT	n20	5300	Ant1	8.96	0	8.96	24	Pass
NVNT	n20	5320	Ant1	9.45	0	9.45	24	Pass
NVNT	n40	5270	Ant1	9.65	0	9.65	24	Pass
NVNT	n40	5310	Ant1	8.75	0	8.75	24	Pass
NVNT	ac20	5260	Ant1	8.23	0	8.23	24	Pass
NVNT	ac20	5300	Ant1	8.48	0	8.48	24	Pass
NVNT	ac20	5320	Ant1	8.19	0	8.19	24	Pass
NVNT	ac40	5270	Ant1	8.22	0	8.22	24	Pass
NVNT	ac40	5310	Ant1	8.35	0	8.35	24	Pass
NVNT	ac80	5290	Ant1	8.87	0	8.87	24	Pass



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-3.8	0	-3.8	11	Pass
NVNT	a	5300	Ant1	-2.9	0	-2.9	11	Pass
NVNT	a	5320	Ant1	-2.88	0	-2.88	11	Pass
NVNT	n20	5260	Ant1	-4.49	0	-4.49	11	Pass
NVNT	n20	5300	Ant1	-3.73	0	-3.73	11	Pass
NVNT	n20	5320	Ant1	-2.81	0	-2.81	11	Pass
NVNT	n40	5270	Ant1	-6.14	0	-6.14	11	Pass
NVNT	n40	5310	Ant1	-6.78	0	-6.78	11	Pass
NVNT	ac20	5260	Ant1	-3.97	0	-3.97	11	Pass
NVNT	ac20	5300	Ant1	-3.16	0	-3.16	11	Pass
NVNT	ac20	5320	Ant1	-2.79	0	-2.79	11	Pass
NVNT	ac40	5270	Ant1	-6.57	0	-6.57	11	Pass
NVNT	ac40	5310	Ant1	-6.8	0	-6.8	11	Pass
NVNT	ac80	5290	Ant1	-8.32	0	-8.32	11	Pass



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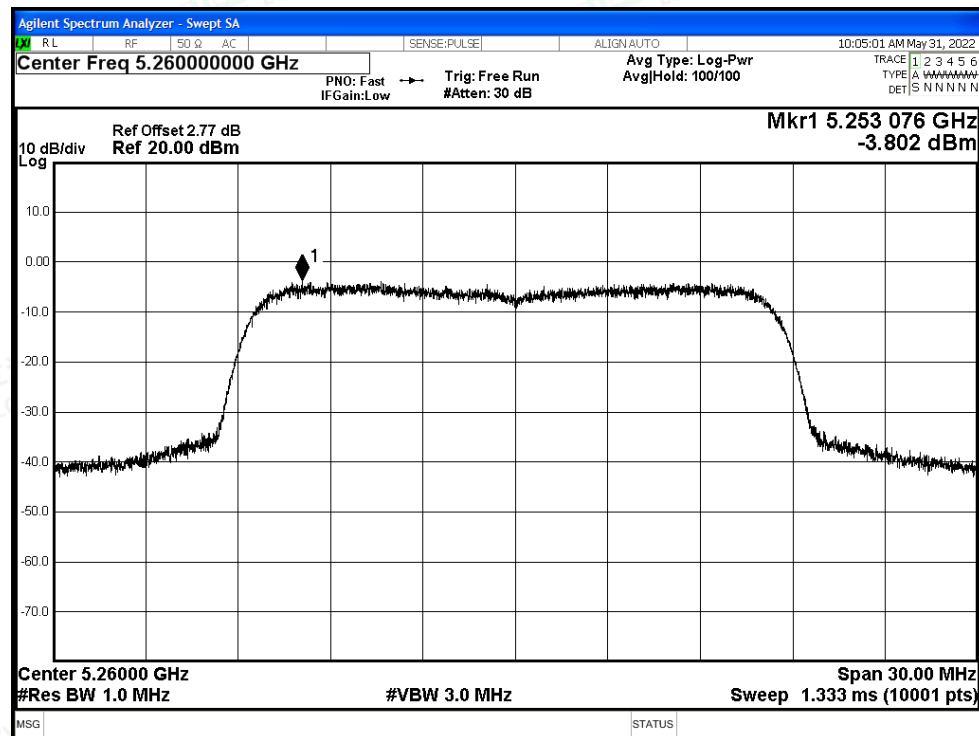
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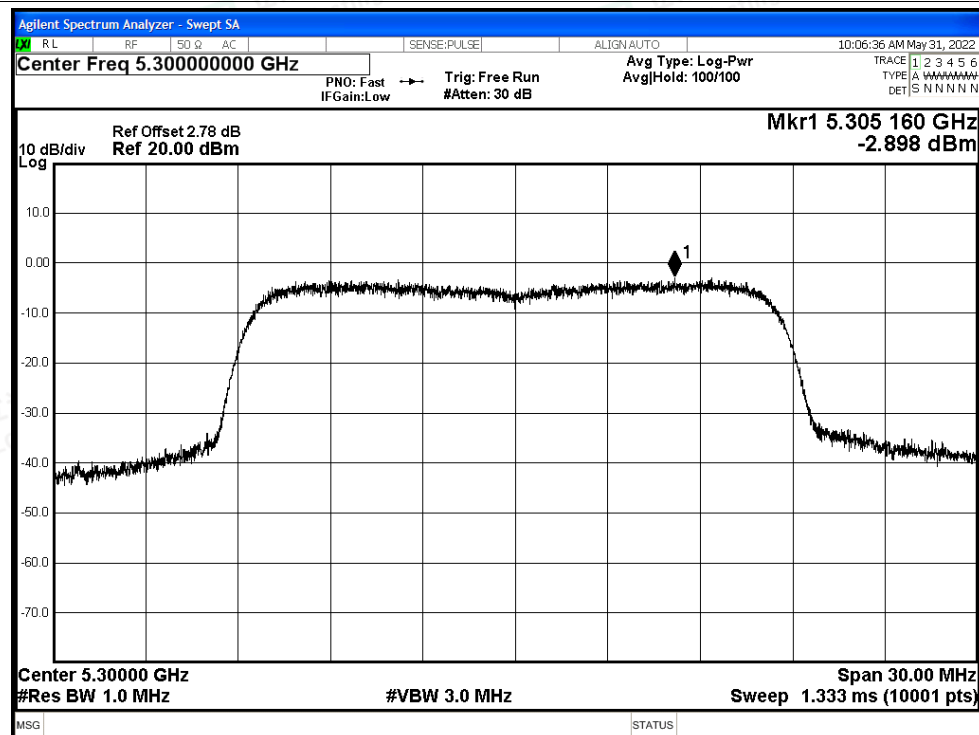


Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



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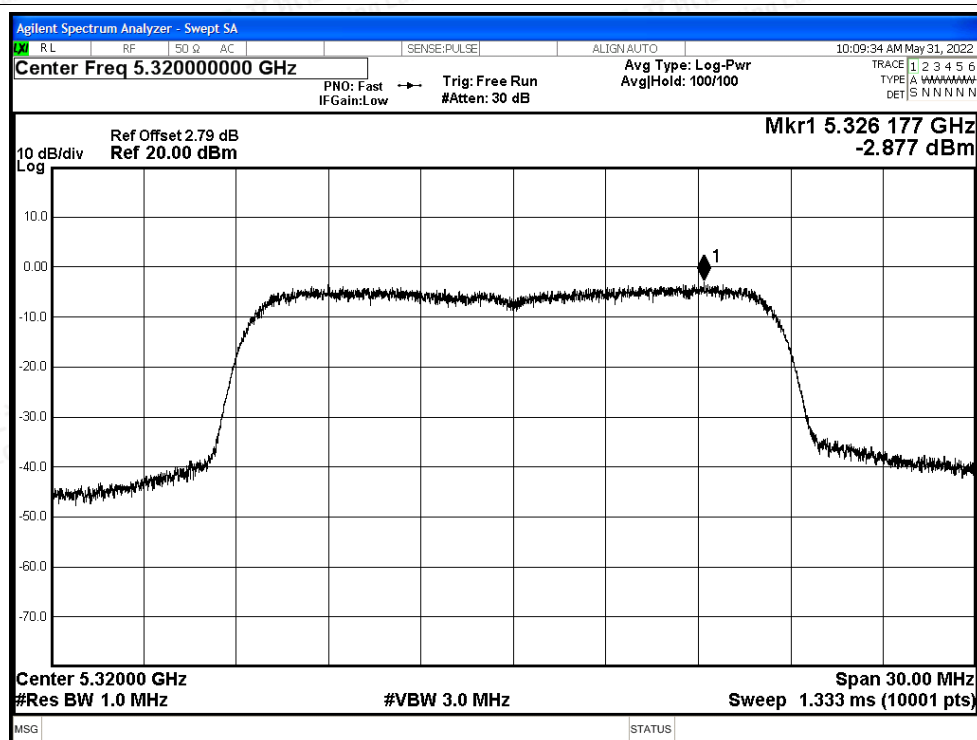
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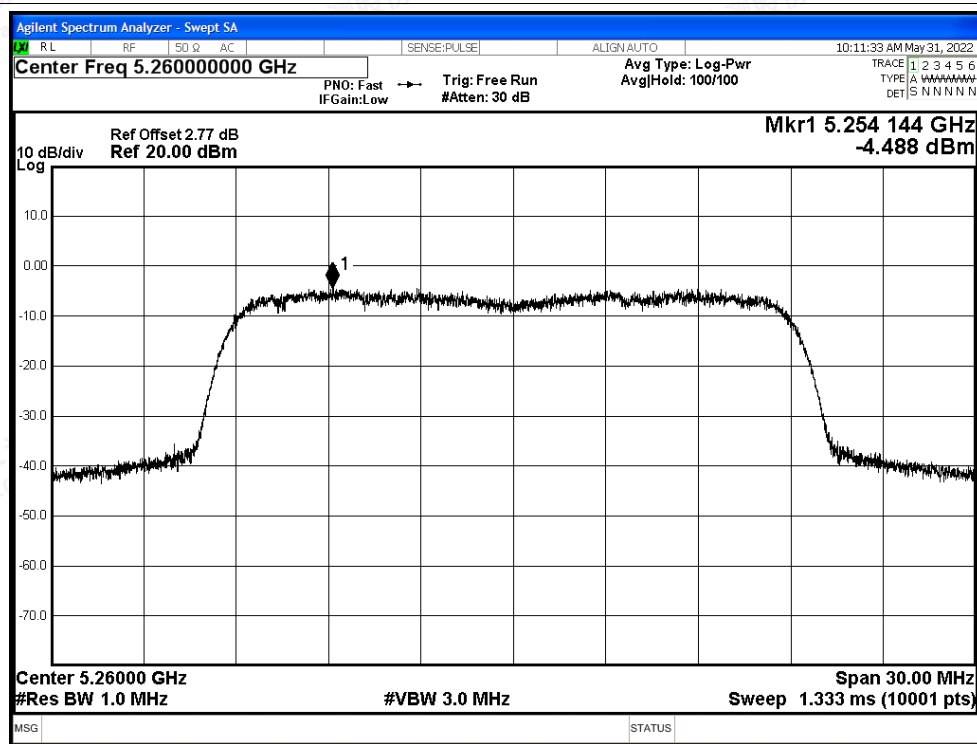
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PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1

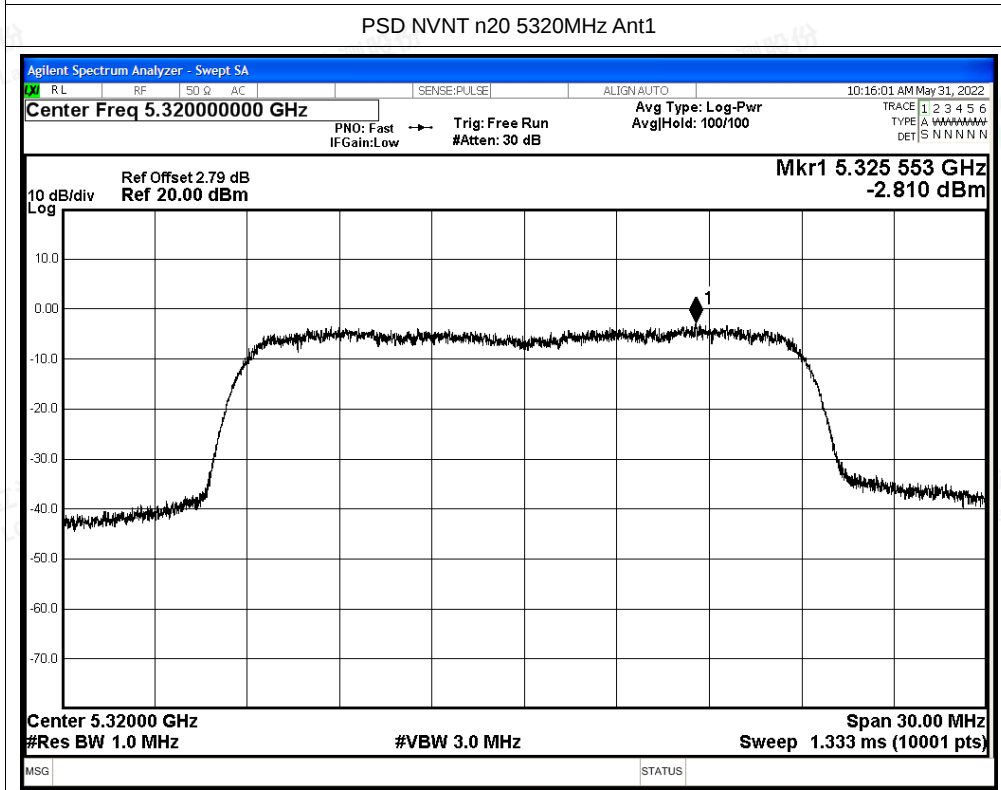
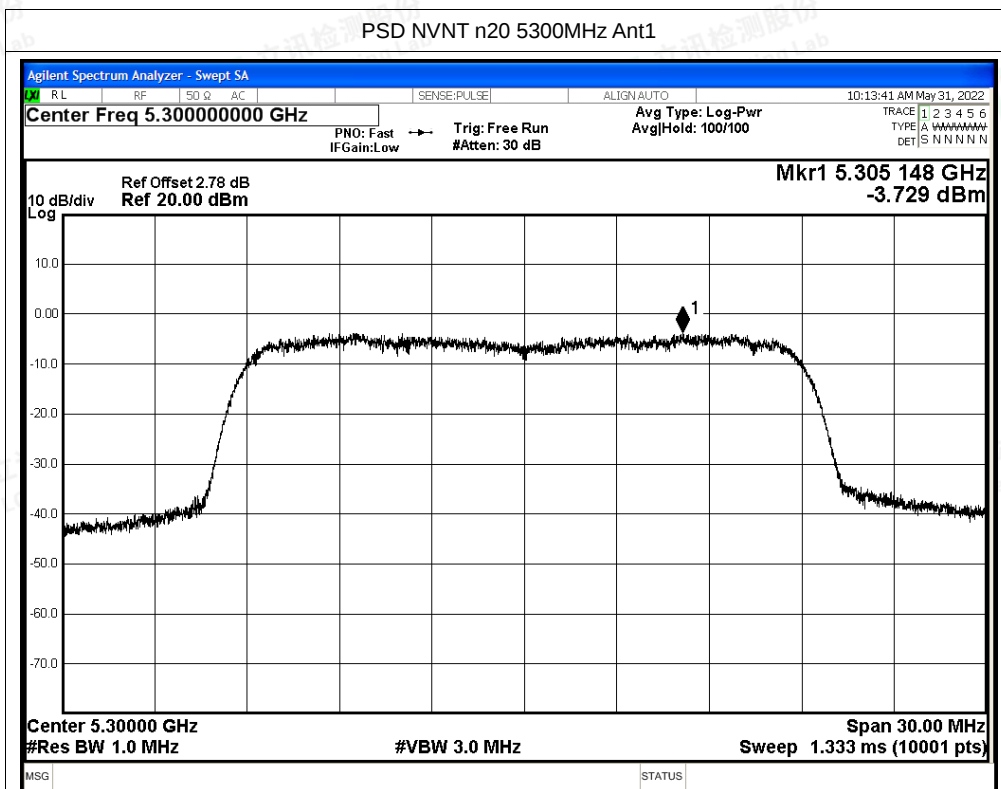


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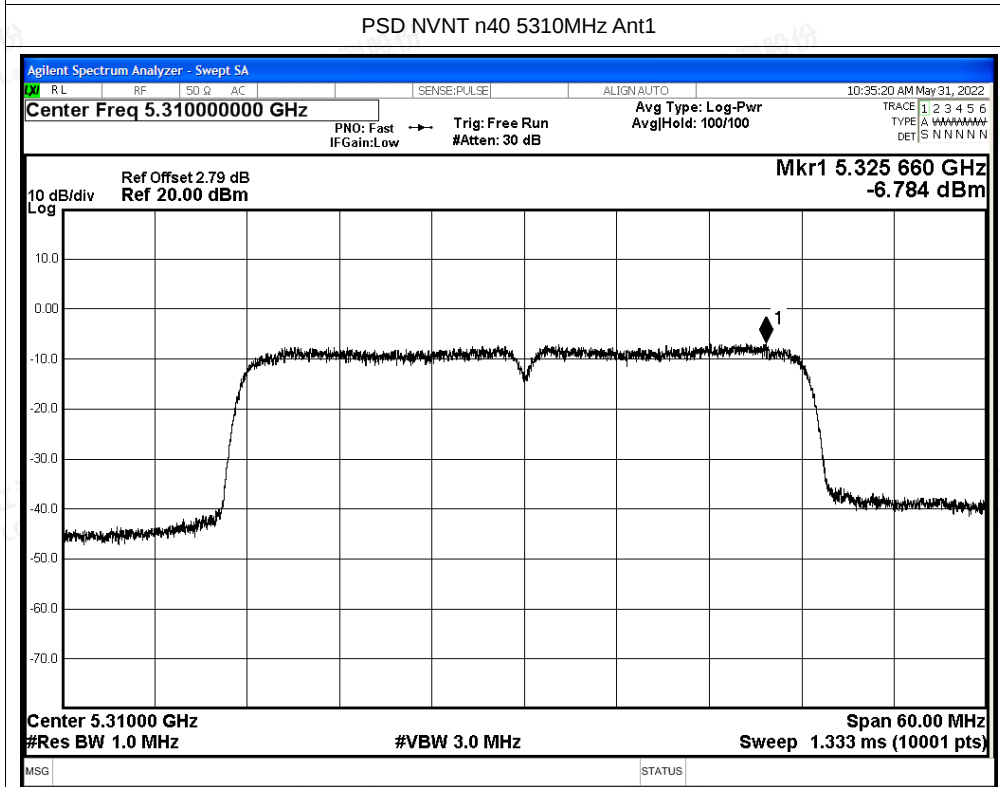
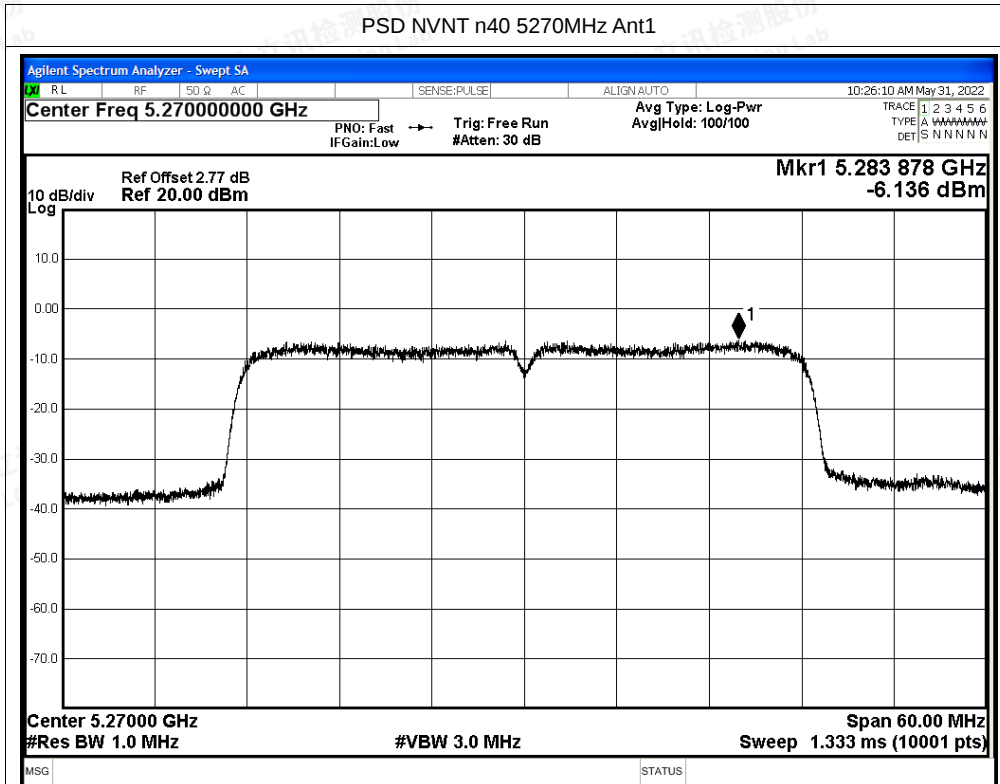


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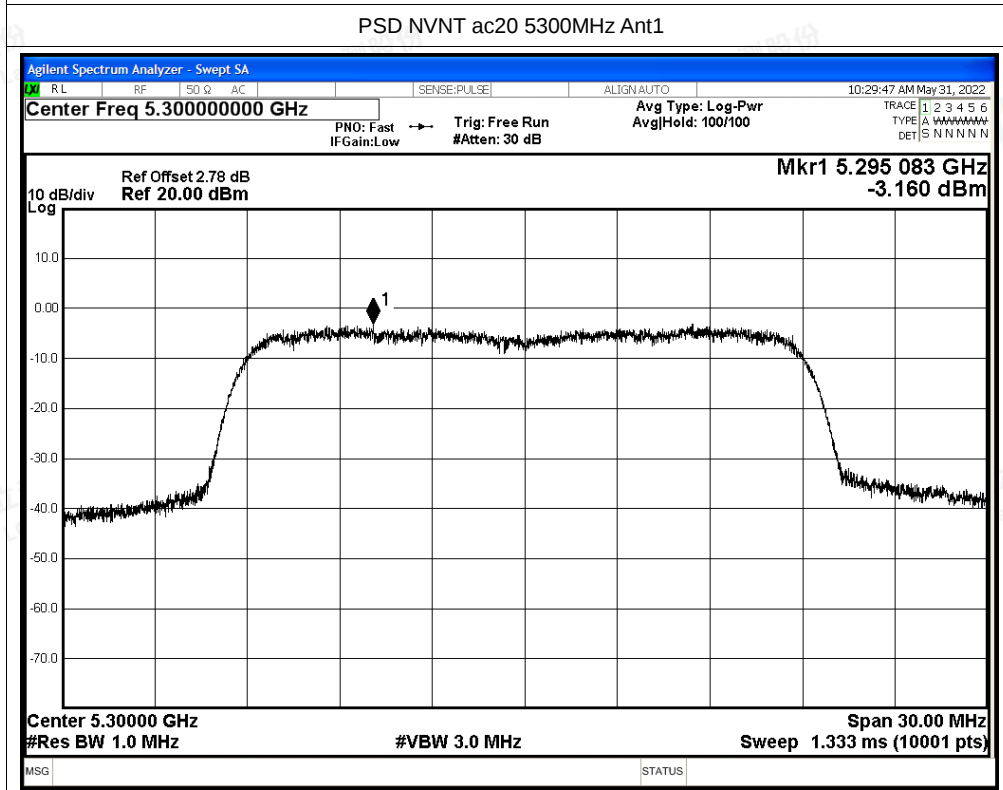
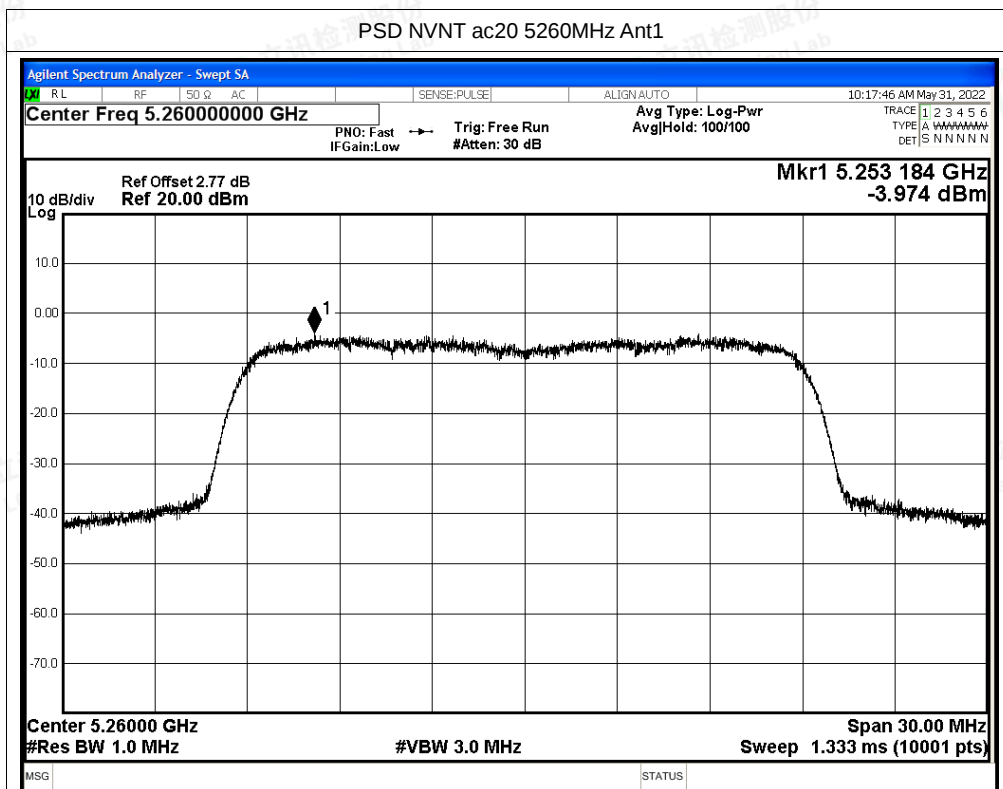


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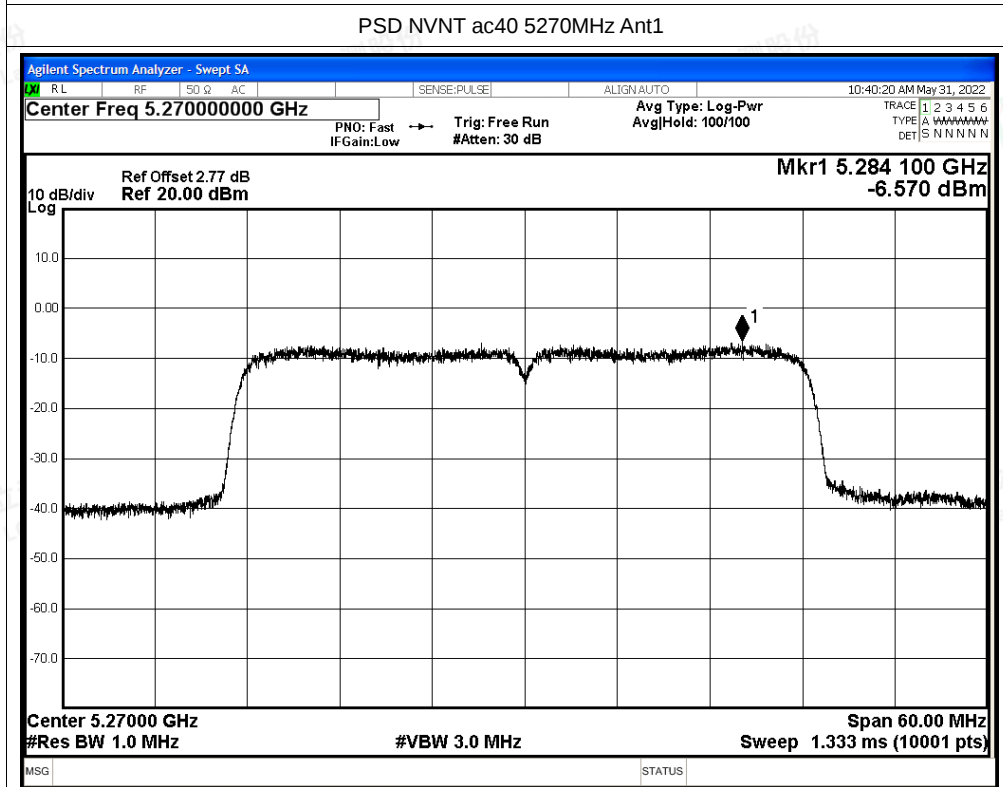
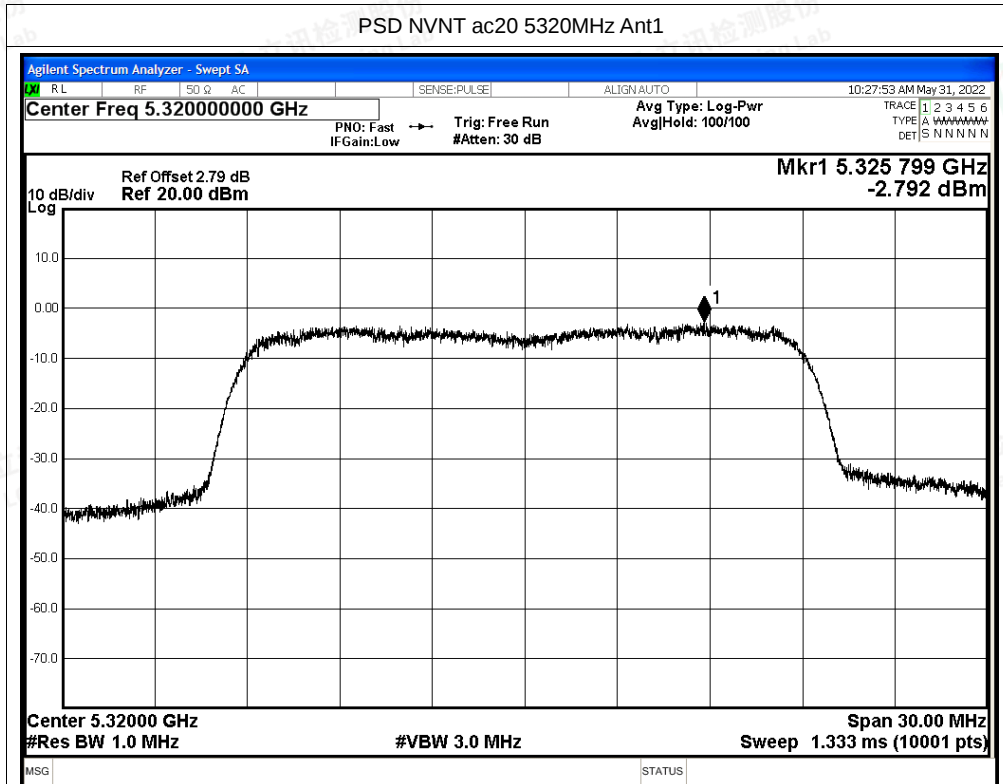


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Scan code to check authenticity

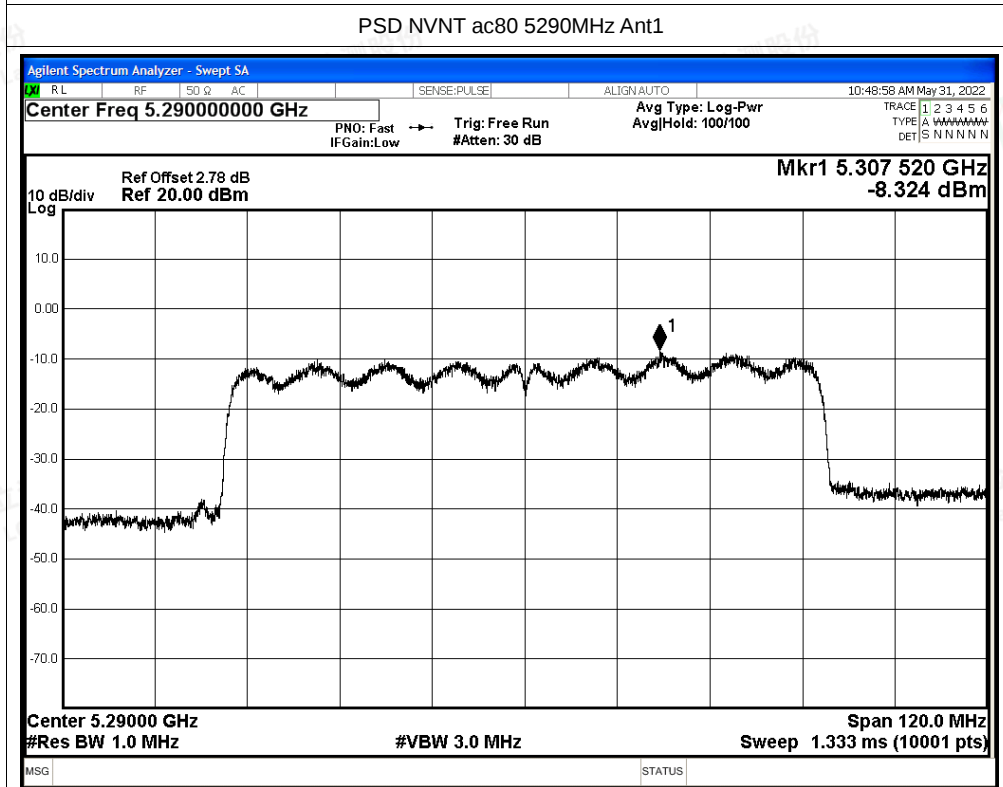
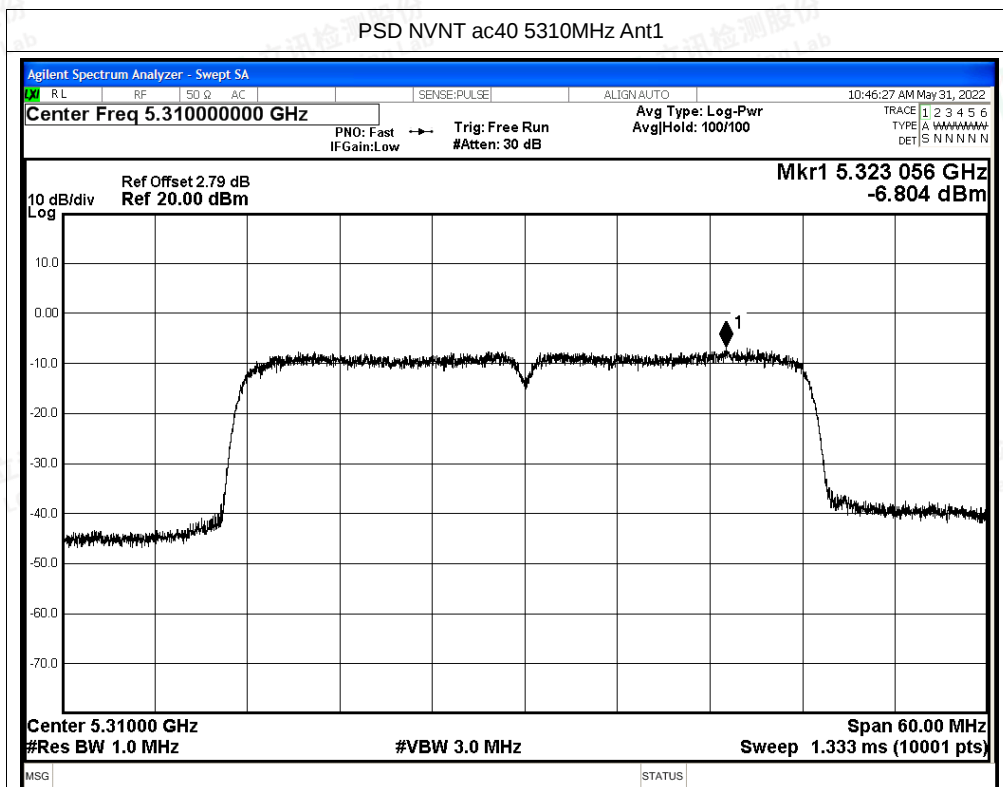


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B.5 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-49.94	2	47.29	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-60.59	2	36.64	Average	54	Pass
NVNT	a	5260	Ant1	5083.44	-46.33	2	50.9	Peak	68.2	Pass
NVNT	a	5260	Ant1	5096.7	-58.89	2	38.34	Average	54	Pass
NVNT	a	5260	Ant1	5150	-50.55	2	46.68	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-59.19	2	38.04	Average	54	Pass
NVNT	a	5320	Ant1	5350	-39.75	2	57.48	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-55.74	2	41.49	Average	54	Pass
NVNT	a	5320	Ant1	5460	-48.08	2	49.15	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350.2	-55.71	2	41.52	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-51.12	2	46.11	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-60.77	2	36.46	Average	54	Pass
NVNT	n20	5260	Ant1	5100.6	-47.17	2	50.06	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5100.6	-58.9	2	38.33	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-49.68	2	47.55	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-59.19	2	38.04	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-40.14	2	57.09	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-53.87	2	43.36	Average	54	Pass
NVNT	n20	5320	Ant1	5353.6	-37.08	2	60.15	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350.4	-53.69	2	43.54	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-50.43	2	46.8	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-59.81	2	37.42	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-50.34	2	46.89	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-60.51	2	36.72	Average	54	Pass
NVNT	n40	5270	Ant1	5078.34	-46.92	2	50.31	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5127.75	-58.52	2	38.71	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-48.56	2	48.67	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-59.01	2	38.22	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-34.73	2	62.5	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-47.32	2	49.91	Average	54	Pass
NVNT	n40	5310	Ant1	5350.6	-31.83	2	65.4	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350.2	-47.19	2	50.04	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-49.24	2	47.99	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-59.46	2	37.77	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-52.1	2	45.13	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-60.6	2	36.63	Average	54	Pass
NVNT	ac20	5260	Ant1	4943.04	-47.17	2	50.06	Peak	68.2	Pass



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NVNT	ac20	5260	Ant1	5026.5	-58.91	2	38.32	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-49.26	2	47.97	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-59.09	2	38.14	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-38.99	2	58.24	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-53.14	2	44.09	Average	54	Pass
NVNT	ac20	5320	Ant1	5351.6	-35.04	2	62.19	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350.2	-53.07	2	44.16	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-51.66	2	45.57	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-59.68	2	37.55	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-50.79	2	46.44	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-60.68	2	36.55	Average	54	Pass
NVNT	ac40	5270	Ant1	4980.33	-47.09	2	50.14	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5059.71	-58.58	2	38.65	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-49.29	2	47.94	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-58.92	2	38.31	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-33.83	2	63.4	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-47.76	2	49.47	Average	54	Pass
NVNT	ac40	5310	Ant1	5353.8	-32.1	2	65.13	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.4	-47.58	2	49.65	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-48.9	2	48.33	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-59.45	2	37.78	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-51.01	2	46.22	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-60.04	2	37.19	Average	54	Pass
NVNT	ac80	5290	Ant1	5145.54	-45.3	2	51.93	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5149.02	-56.2	2	41.03	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-45.4	2	51.83	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-56.24	2	40.99	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-32.35	2	64.88	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-44.21	2	53.02	Average	54	Pass
NVNT	ac80	5290	Ant1	5353.25	-30.08	2	67.15	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5361	-43.71	2	53.52	Average	54	Pass
NVNT	ac80	5290	Ant1	5460	-50.02	2	47.21	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-59.36	2	37.87	Average	54	Pass



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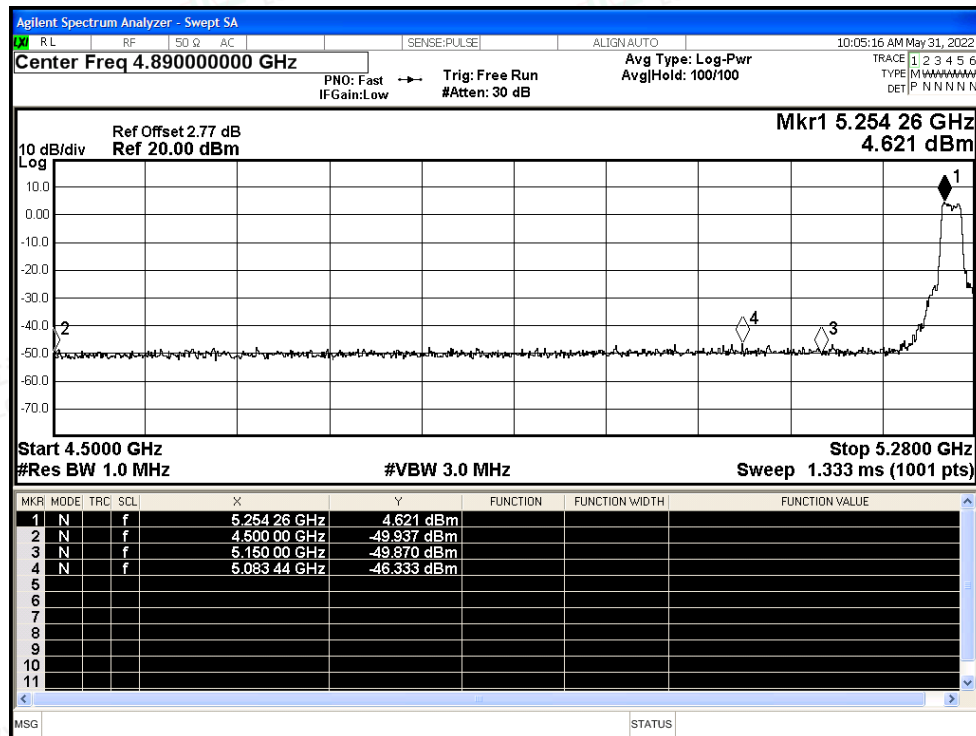
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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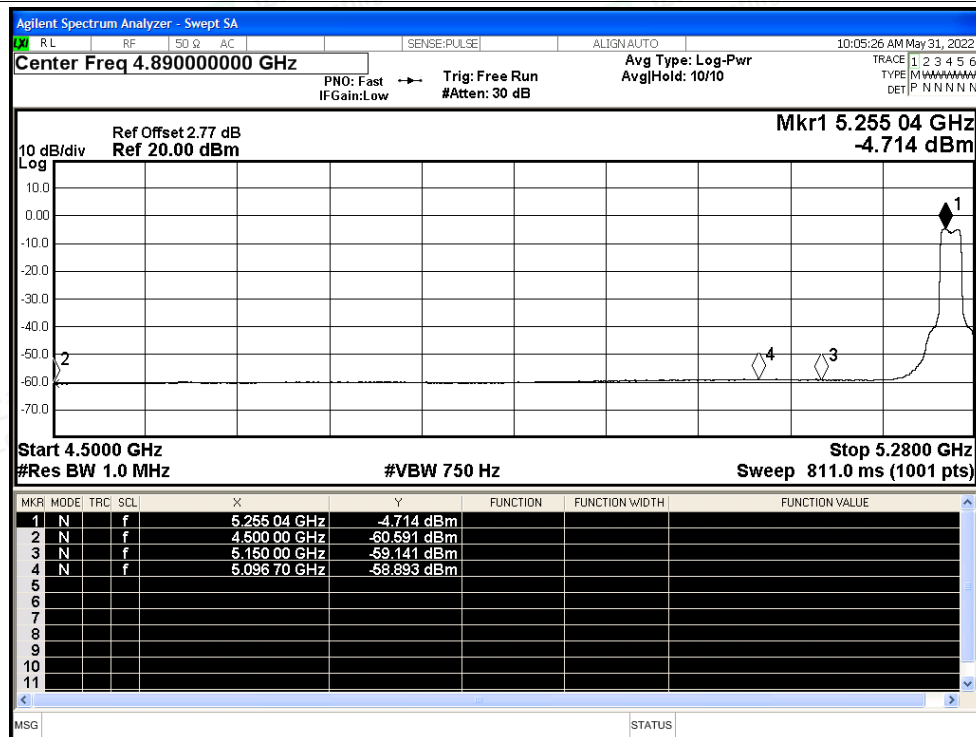


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

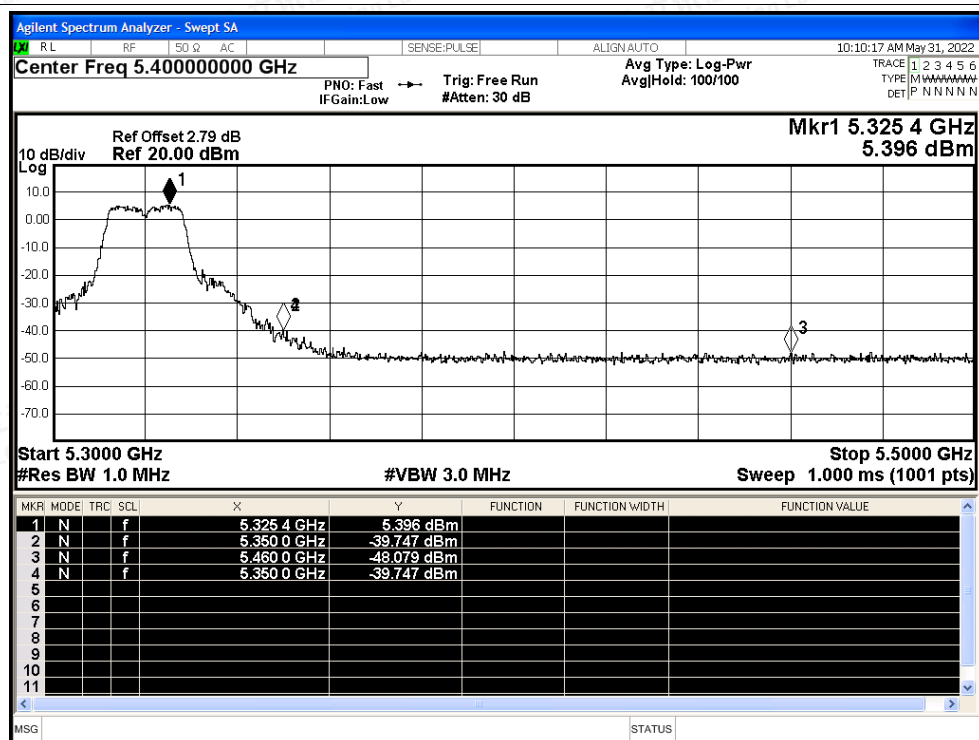
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

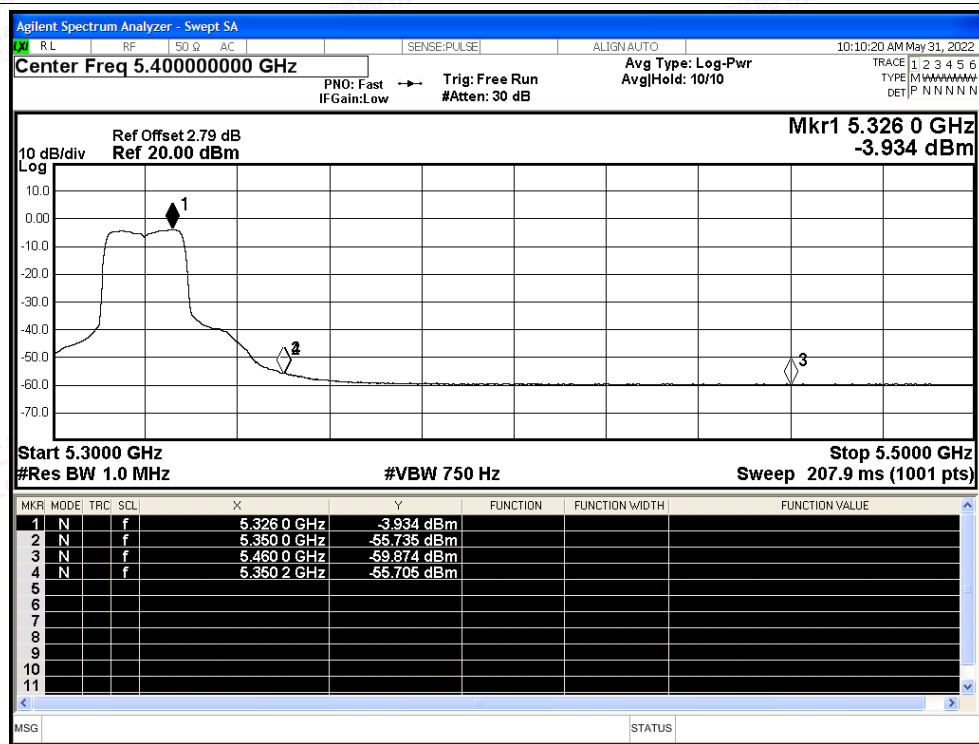
Scan code to check authenticity



Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

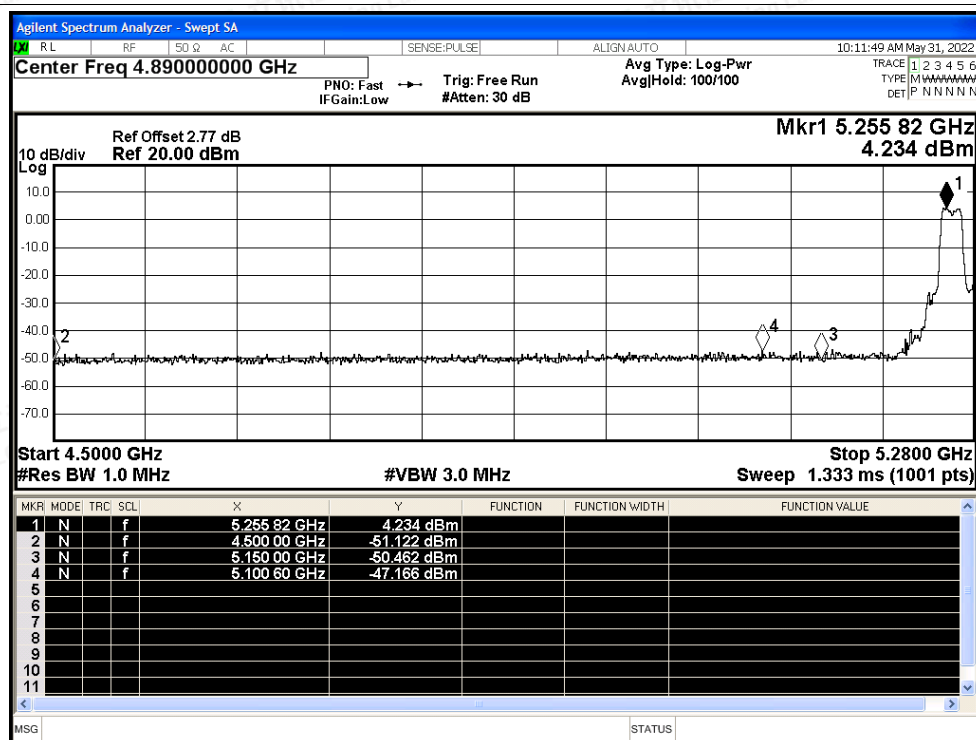
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

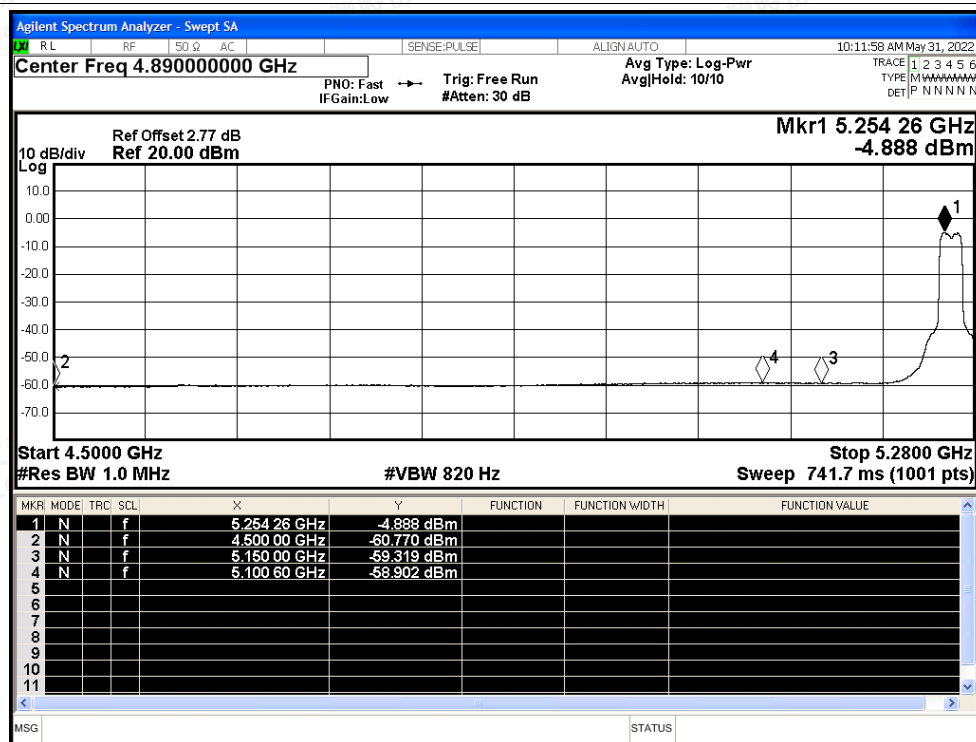
Scan code to check authenticity



Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

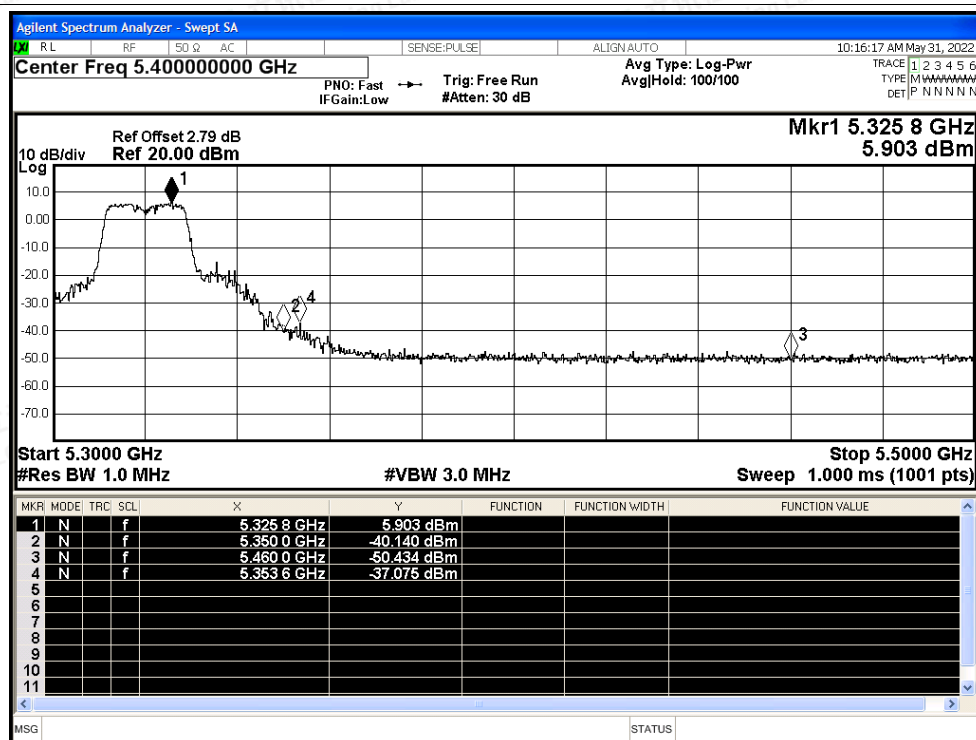
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

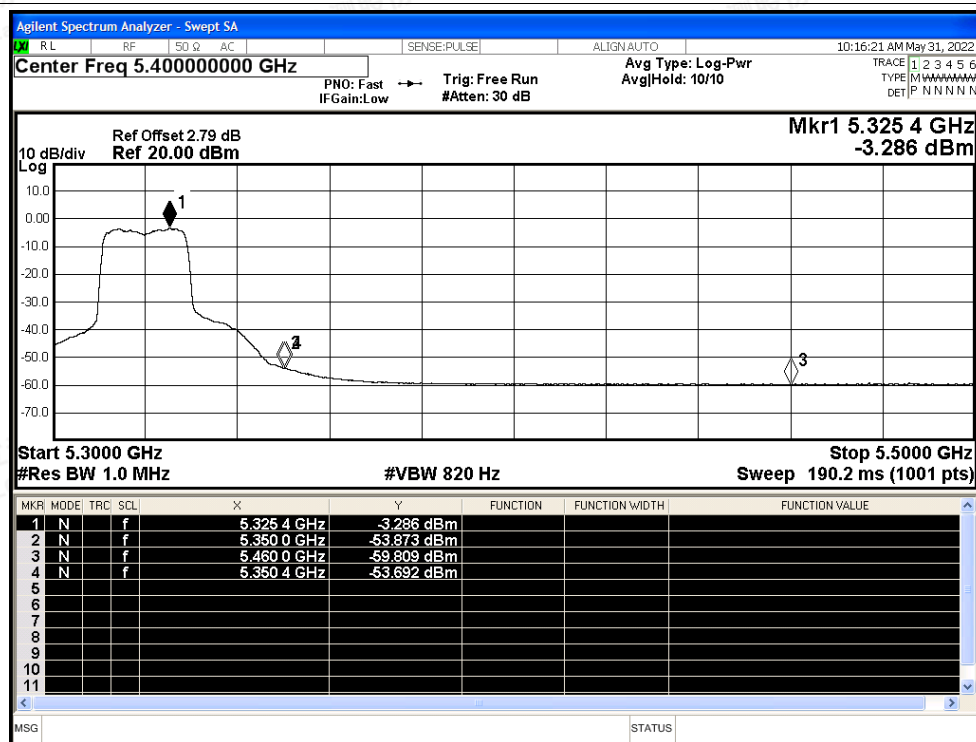
Scan code to check authenticity



Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

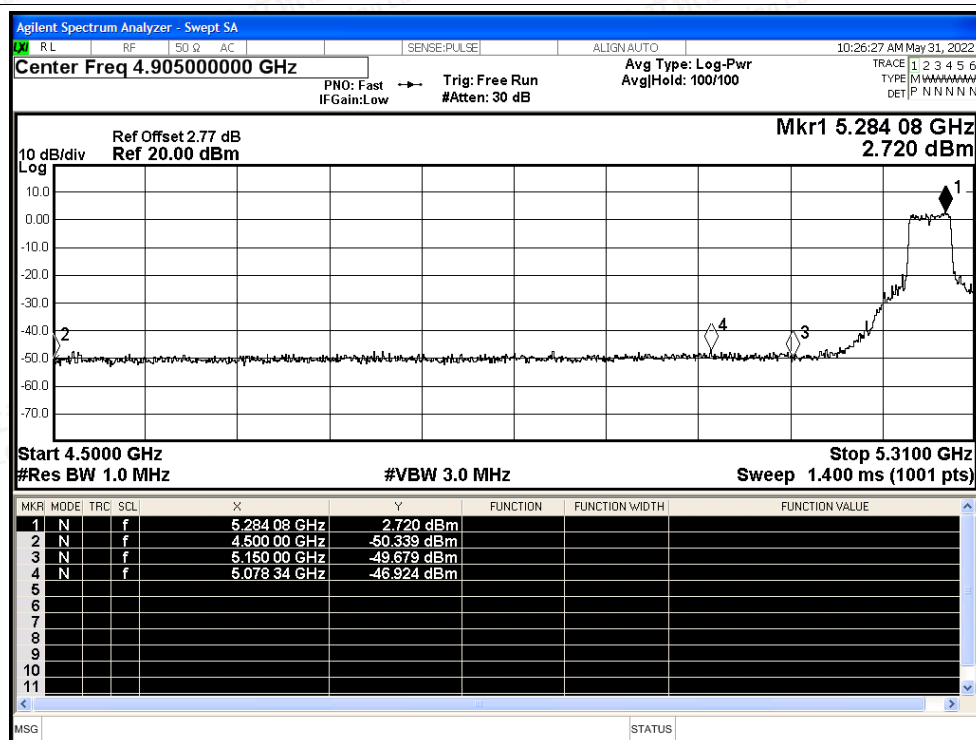
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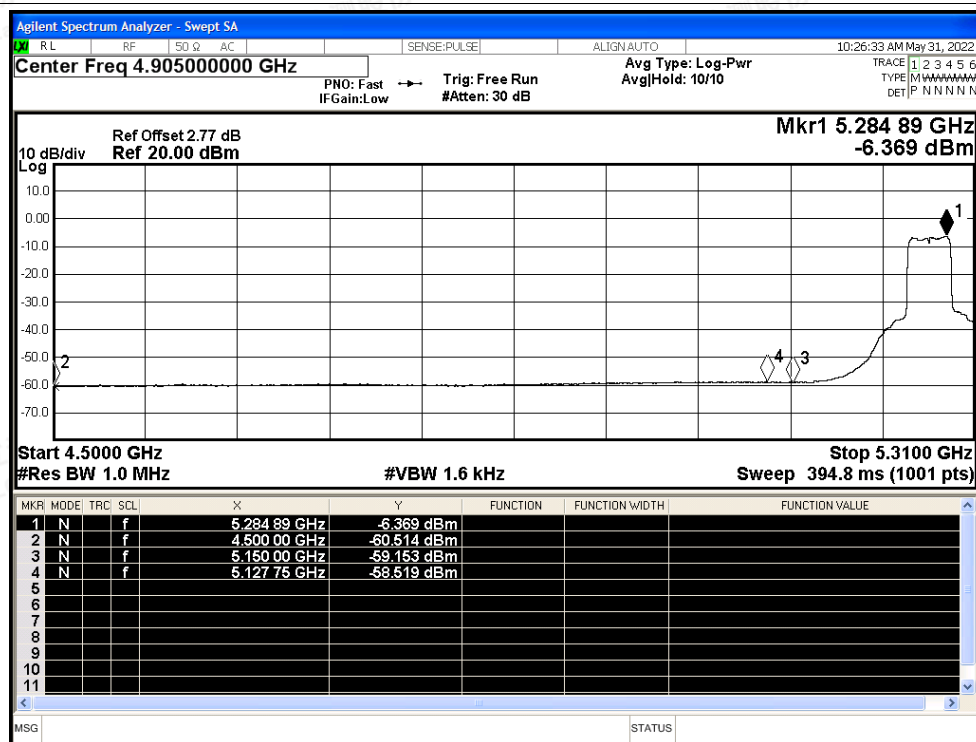
Scan code to check authenticity



Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

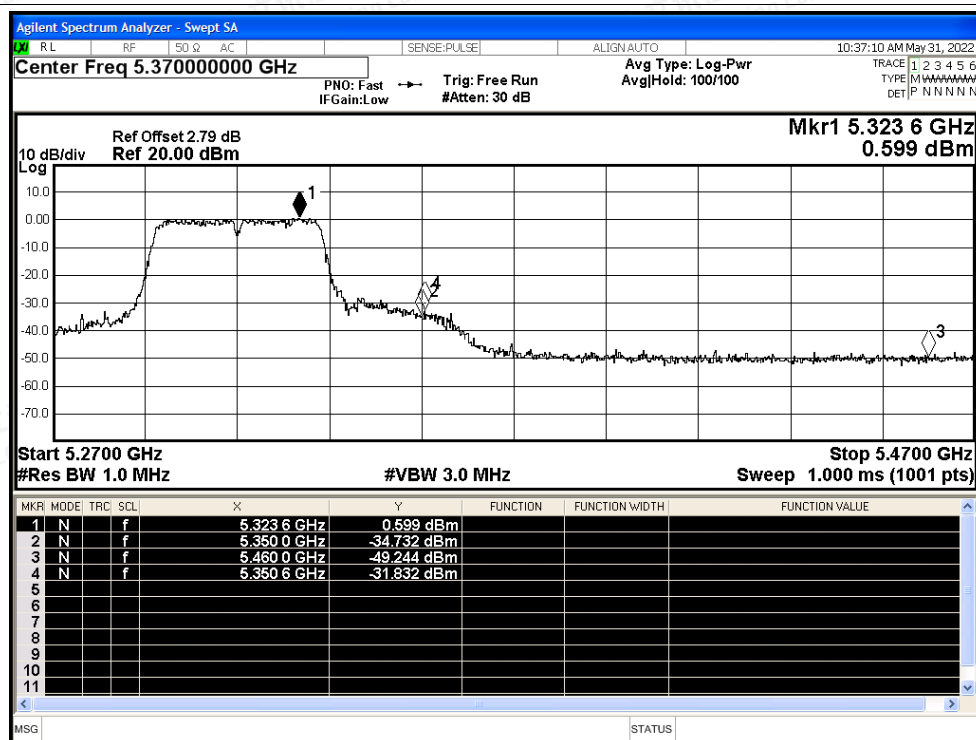
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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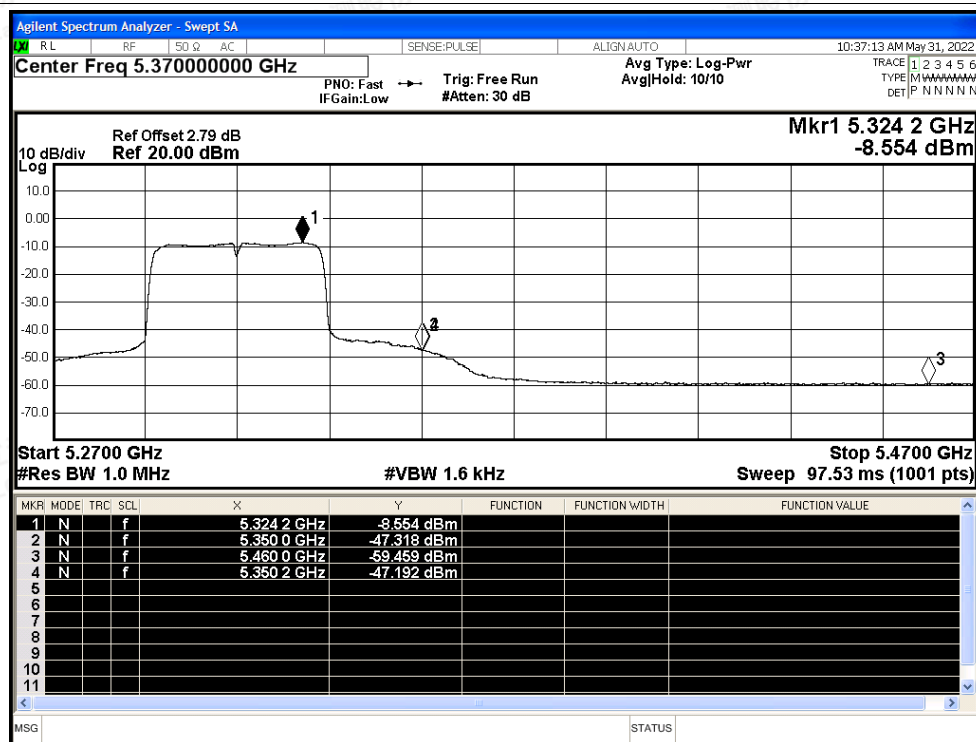
Scan code to check authenticity



Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

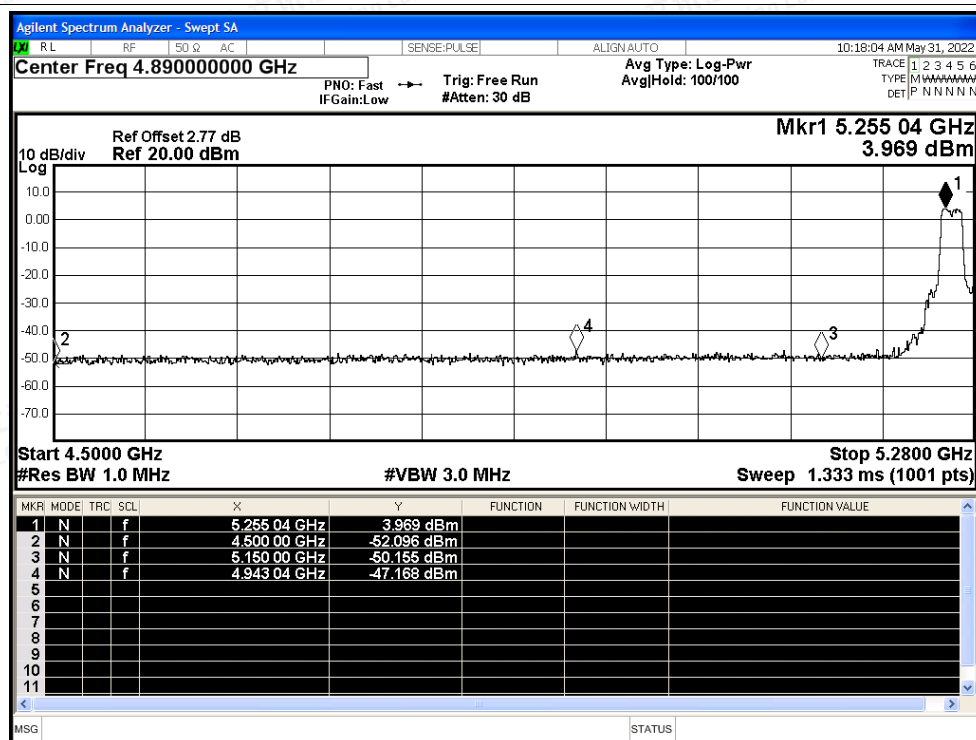
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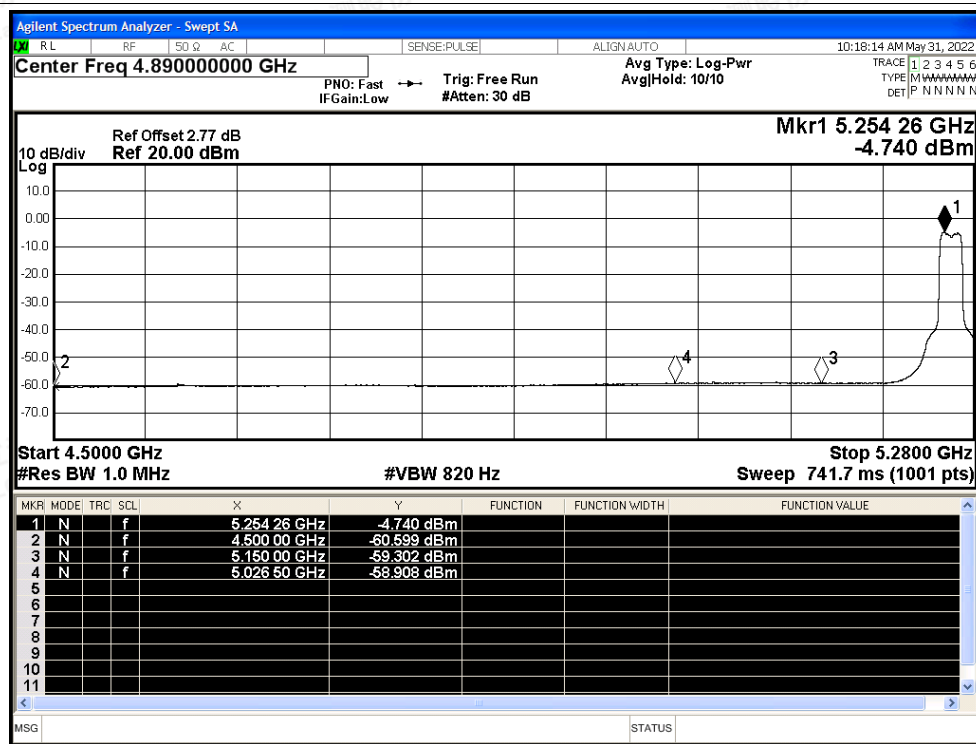
Scan code to check authenticity



Restrict Band NVNT ac20 5260MHz Ant1 Peak



Restrict Band NVNT ac20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

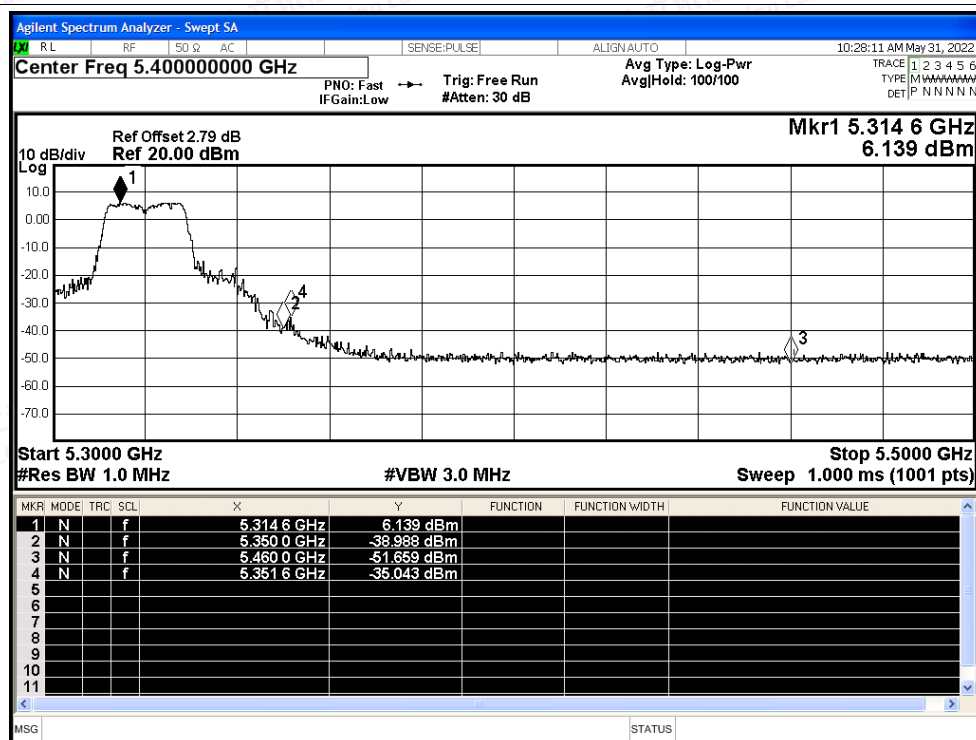
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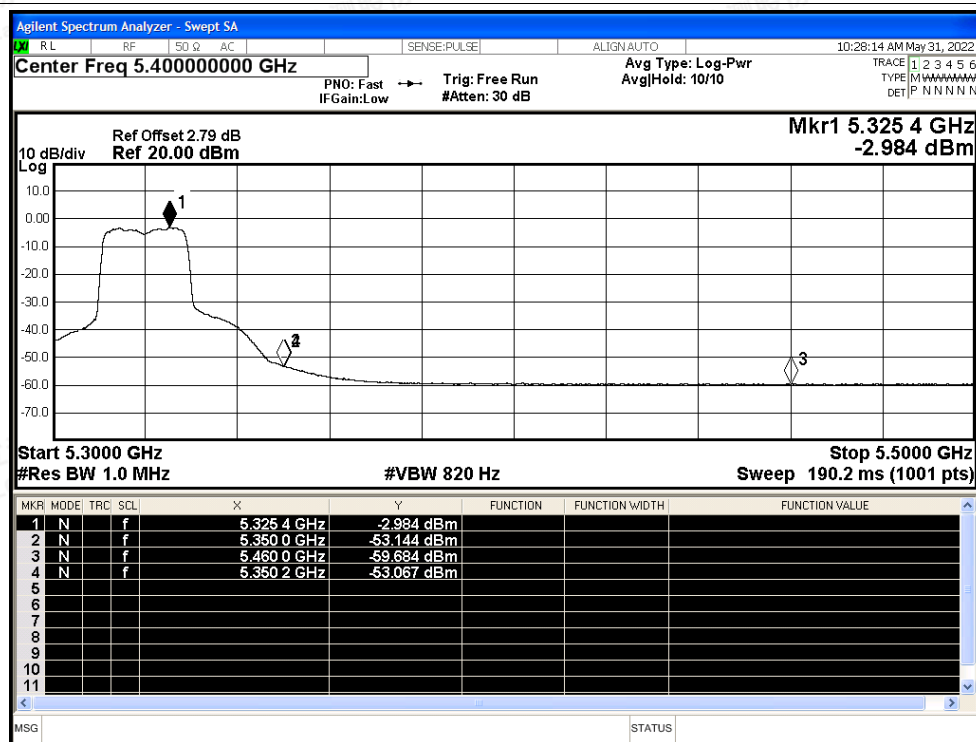
Scan code to check authenticity



Restrict Band NVNT ac20 5320MHz Ant1 Peak



Restrict Band NVNT ac20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

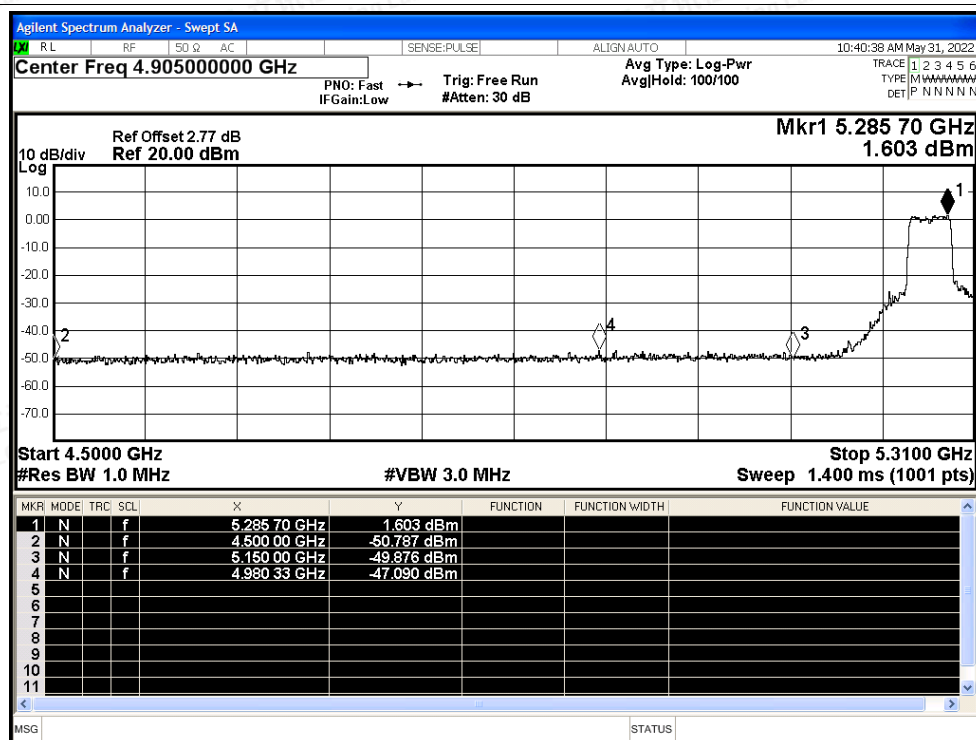
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

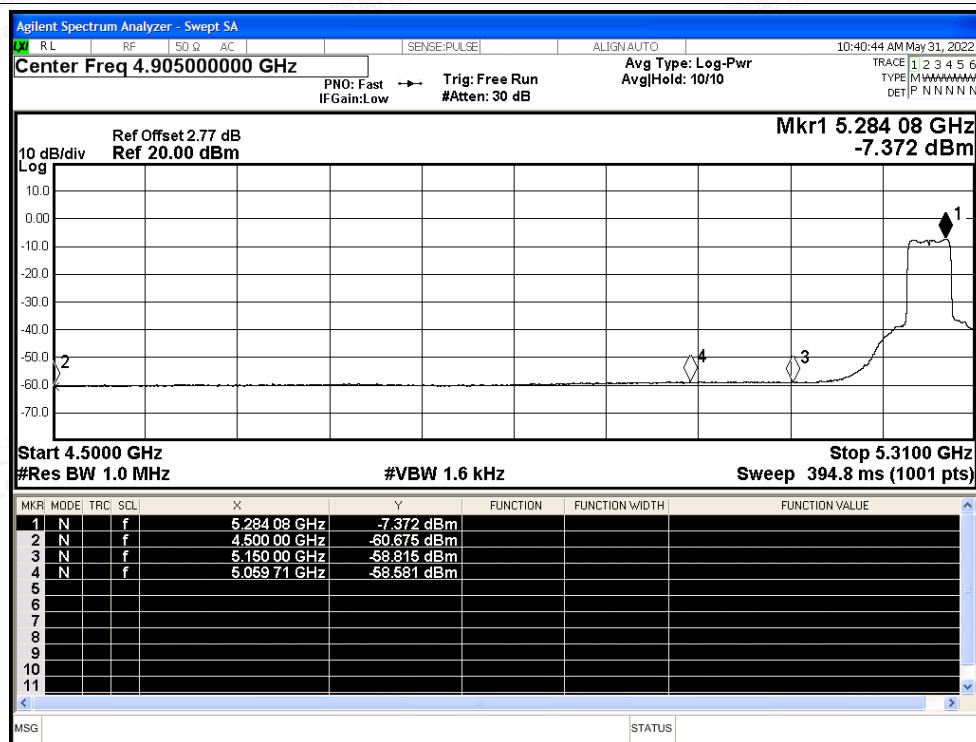
Scan code to check authenticity



Restrict Band NVNT ac40 5270MHz Ant1 Peak



Restrict Band NVNT ac40 5270MHz Ant1 Average



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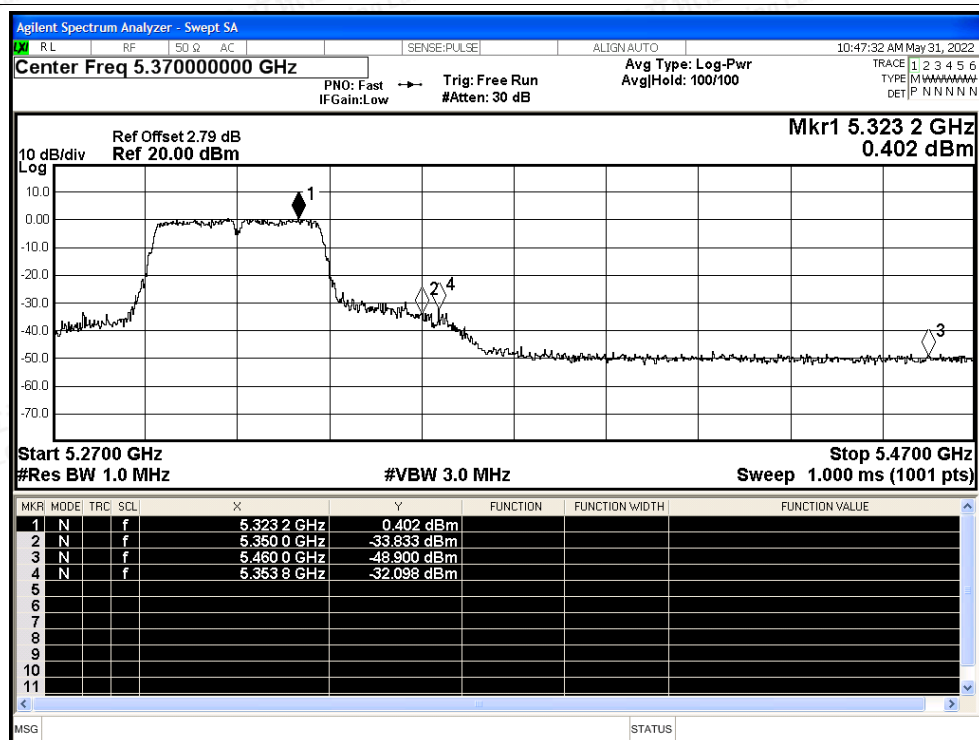
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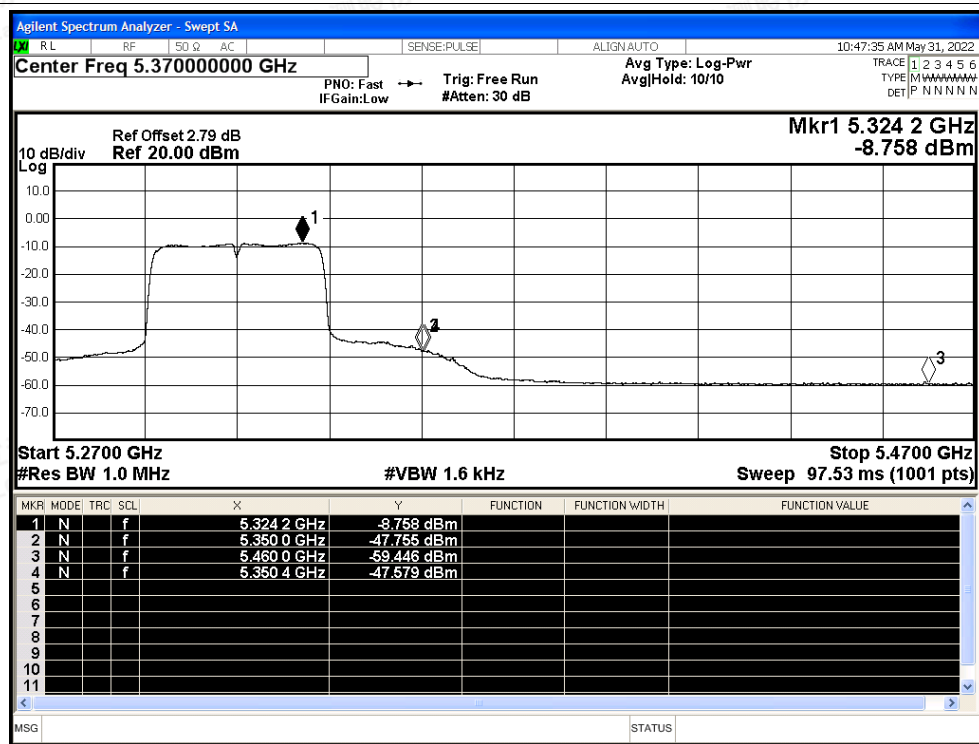
Scan code to check authenticity



Restrict Band NVNT ac40 5310MHz Ant1 Peak



Restrict Band NVNT ac40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

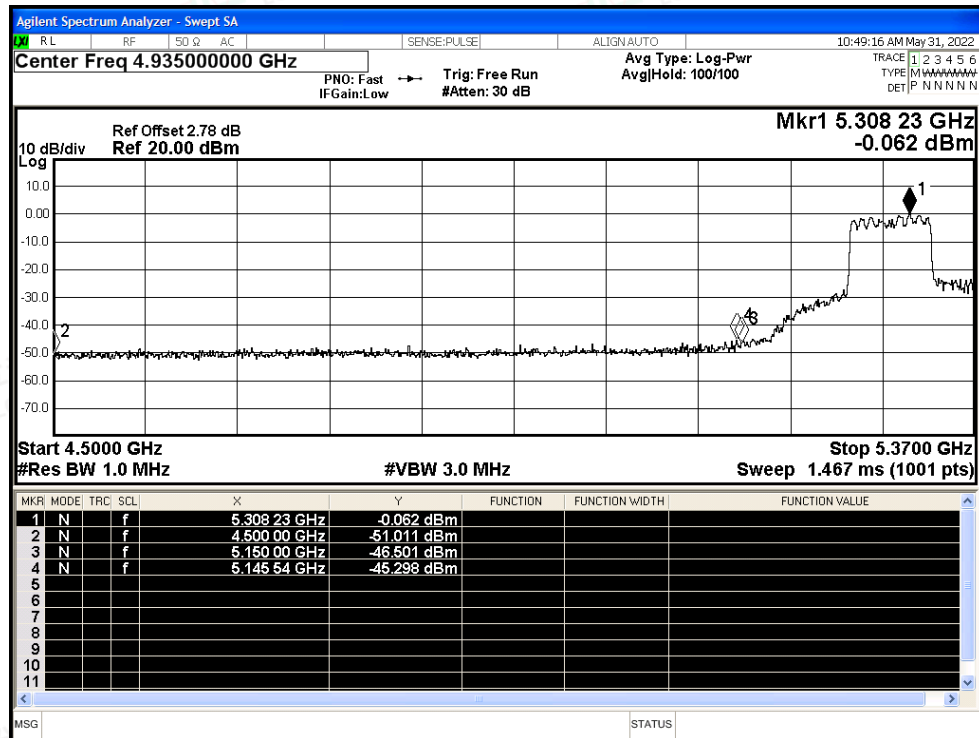
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

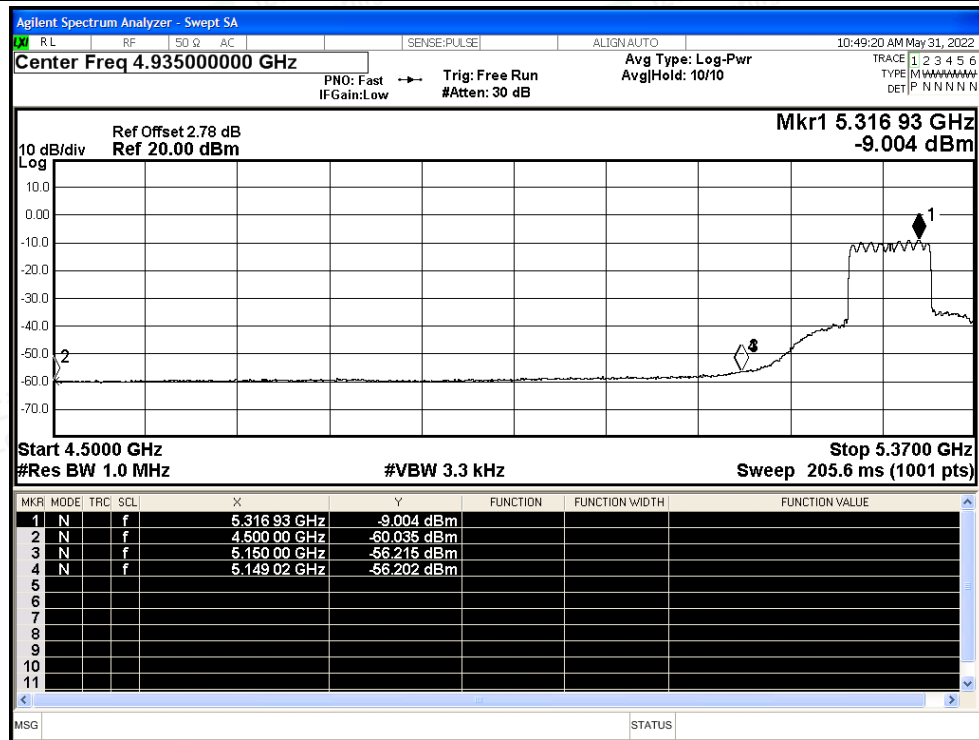
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average



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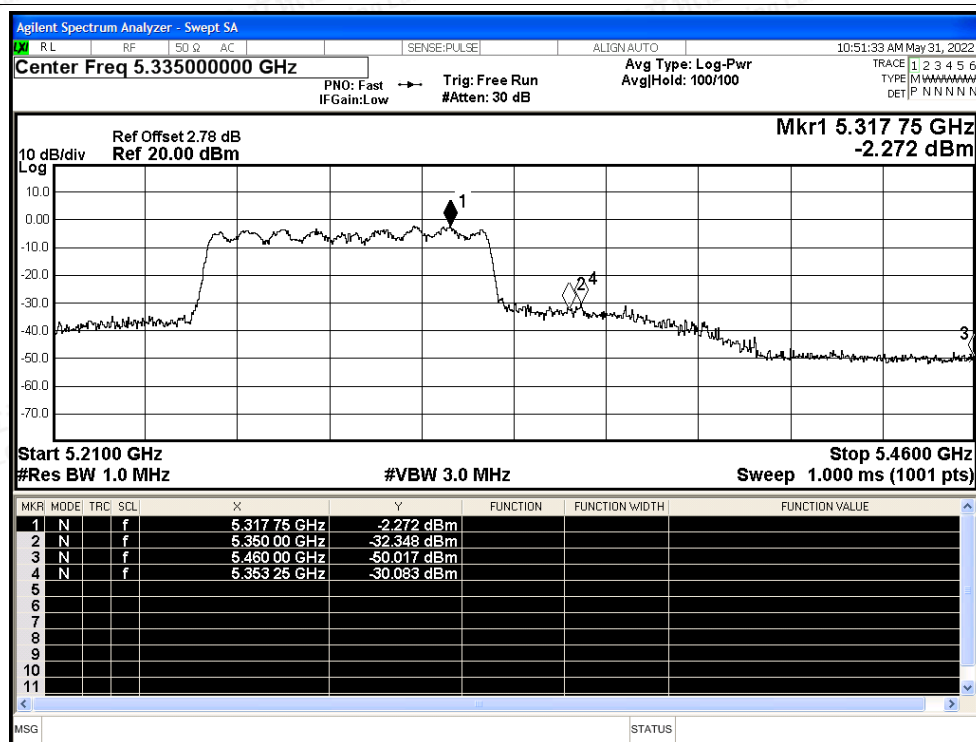
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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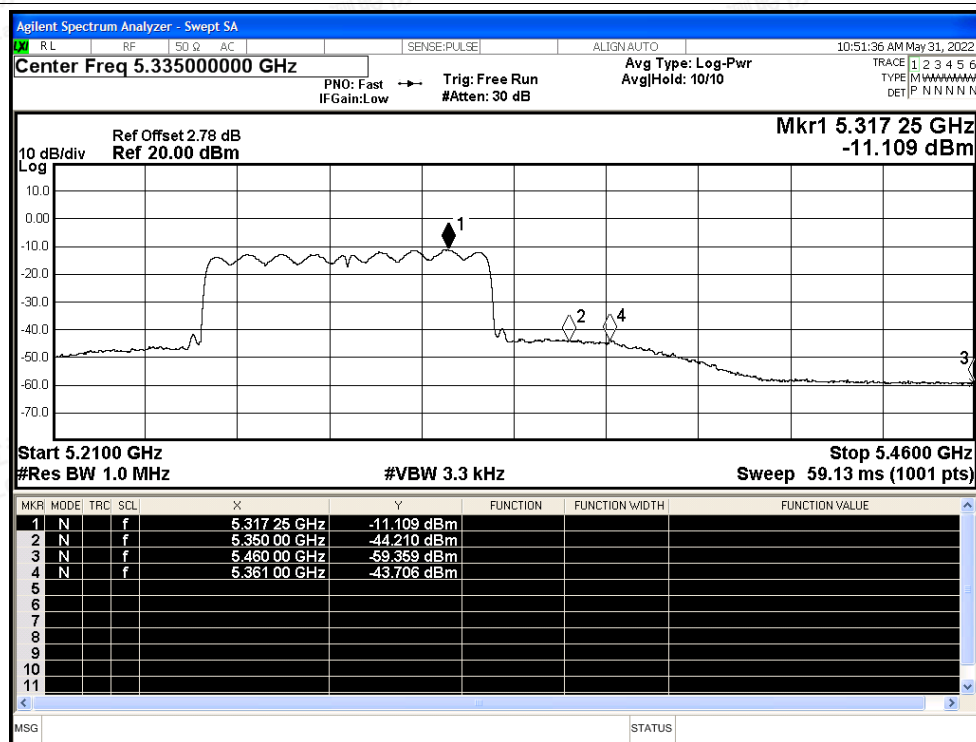
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average



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B.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
NVNT	ac20	5300	Ant1	5299.96	-40000	-7.55	25	Pass
NVNT	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac80	5290	Ant1	5290	0	0	25	Pass



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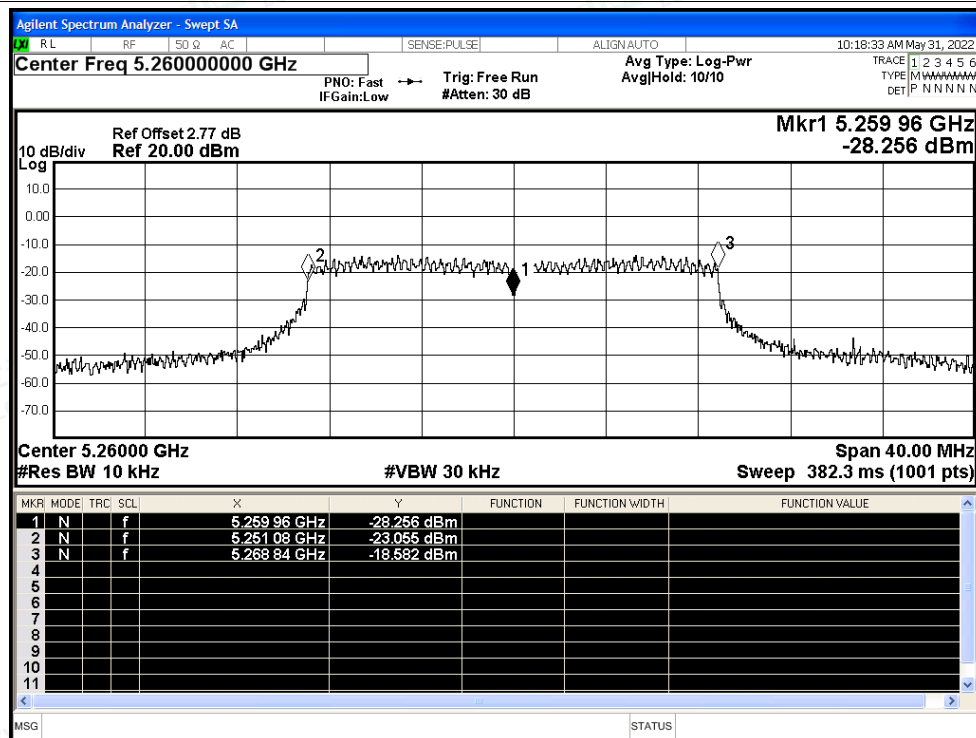
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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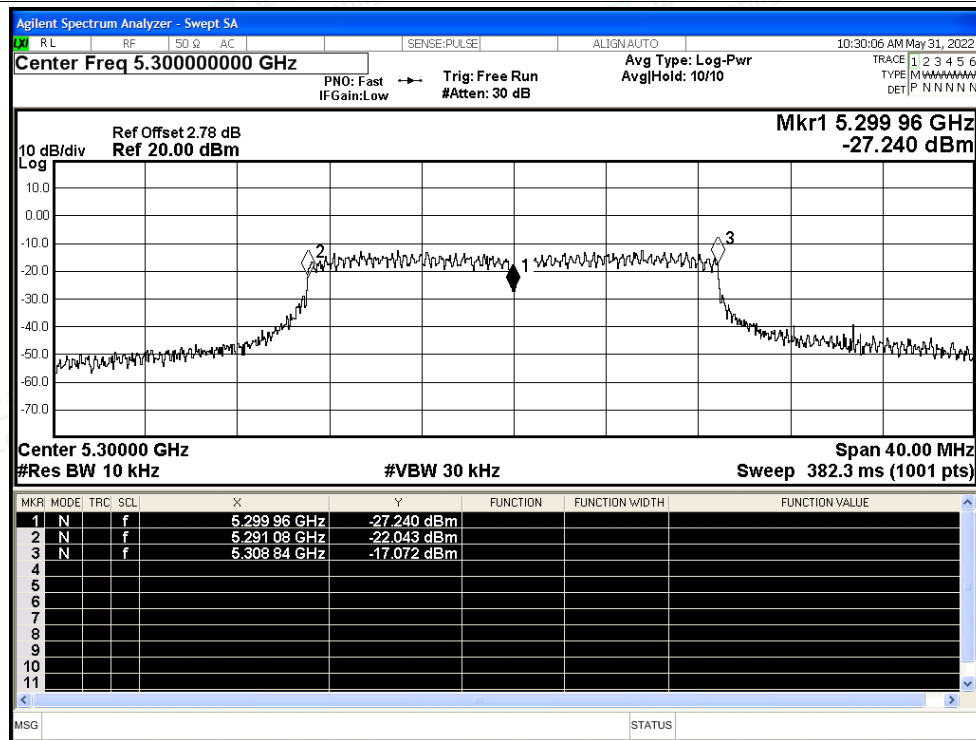


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant1



Freq. Stability NVNT ac20 5300MHz Ant1



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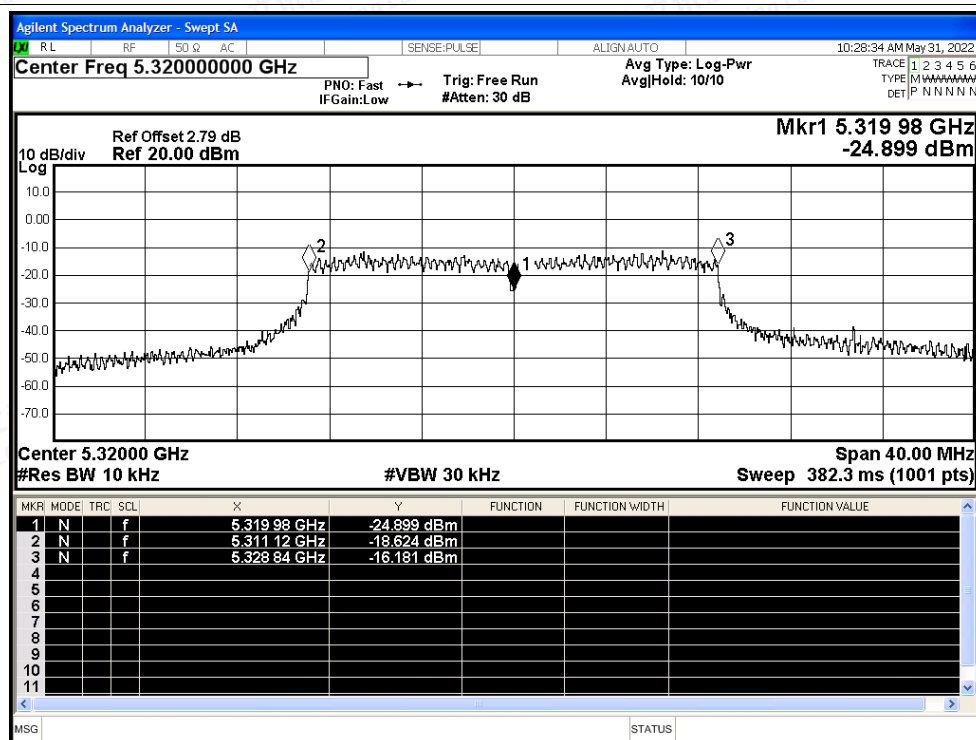
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

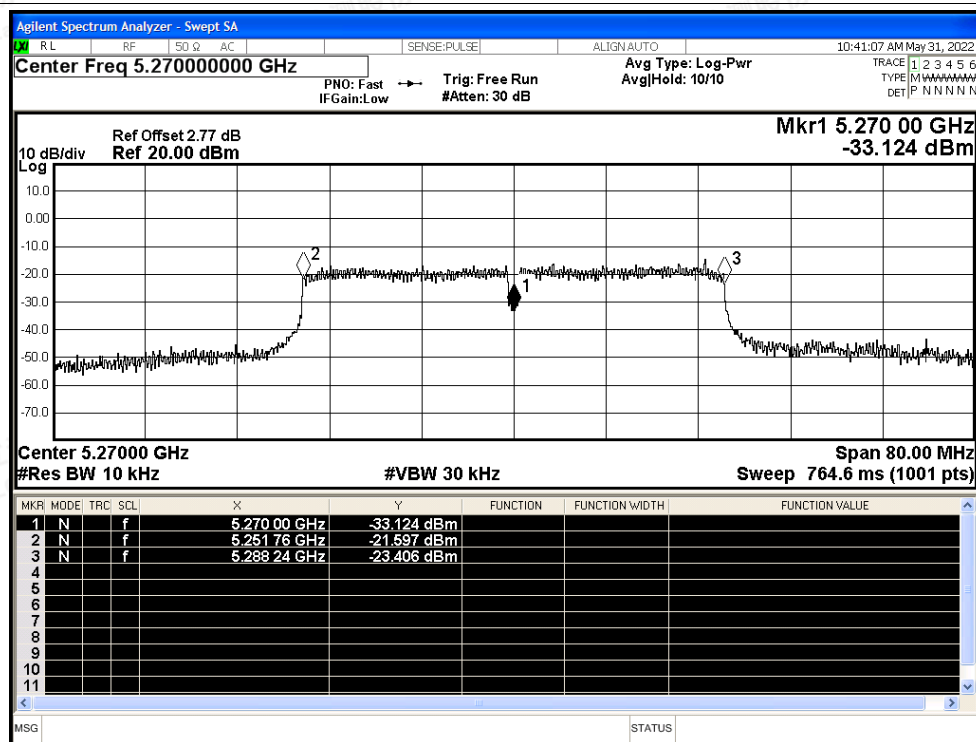
Scan code to check authenticity



Freq. Stability NVNT ac20 5320MHz Ant1



Freq. Stability NVNT ac40 5270MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

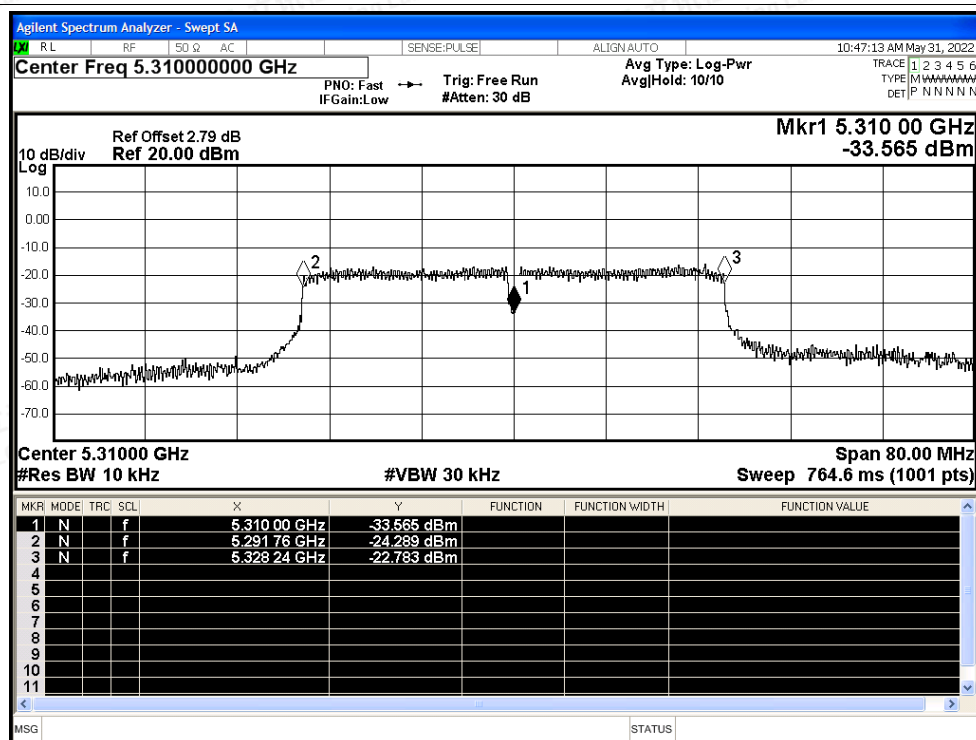
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

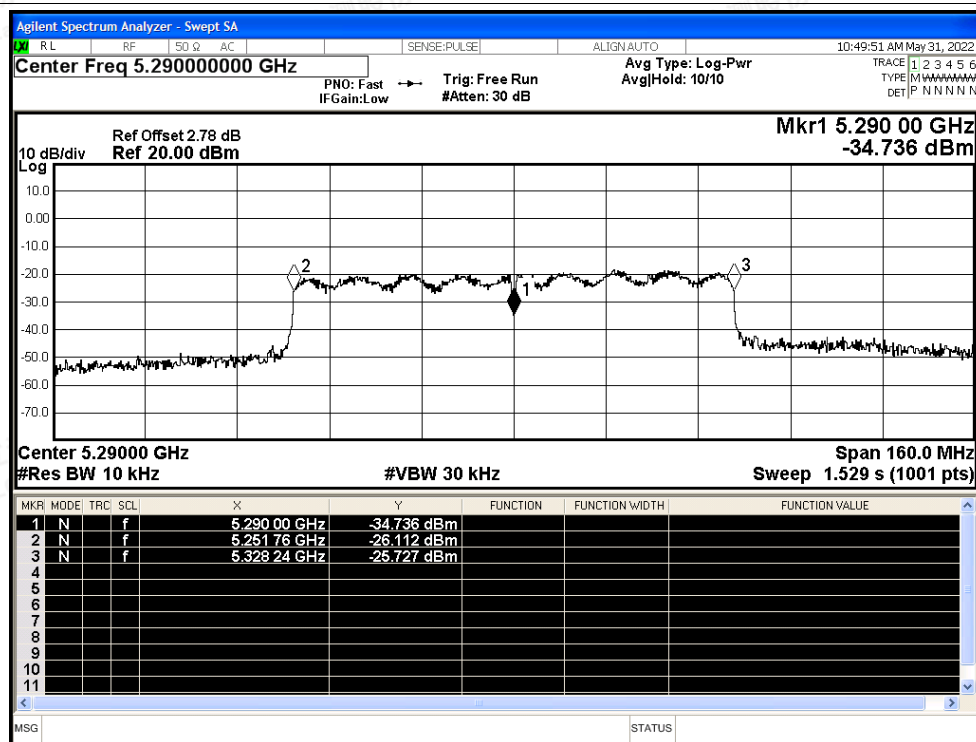
Scan code to check authenticity



Freq. Stability NVNT ac40 5310MHz Ant1



Freq. Stability NVNT ac80 5290MHz Ant1



Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.

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B.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	100	0	0
NVNT	a	5300	Ant1	100	0	0
NVNT	a	5320	Ant1	100	0	0
NVNT	n20	5260	Ant1	100	0	0
NVNT	n20	5300	Ant1	100	0	0
NVNT	n20	5320	Ant1	100	0	0
NVNT	n40	5270	Ant1	100	0	0
NVNT	n40	5310	Ant1	100	0	0
NVNT	ac20	5260	Ant1	100	0	0
NVNT	ac20	5300	Ant1	100	0	0
NVNT	ac20	5320	Ant1	100	0	0
NVNT	ac40	5270	Ant1	100	0	0
NVNT	ac40	5310	Ant1	100	0	0
NVNT	ac80	5290	Ant1	100	0	0



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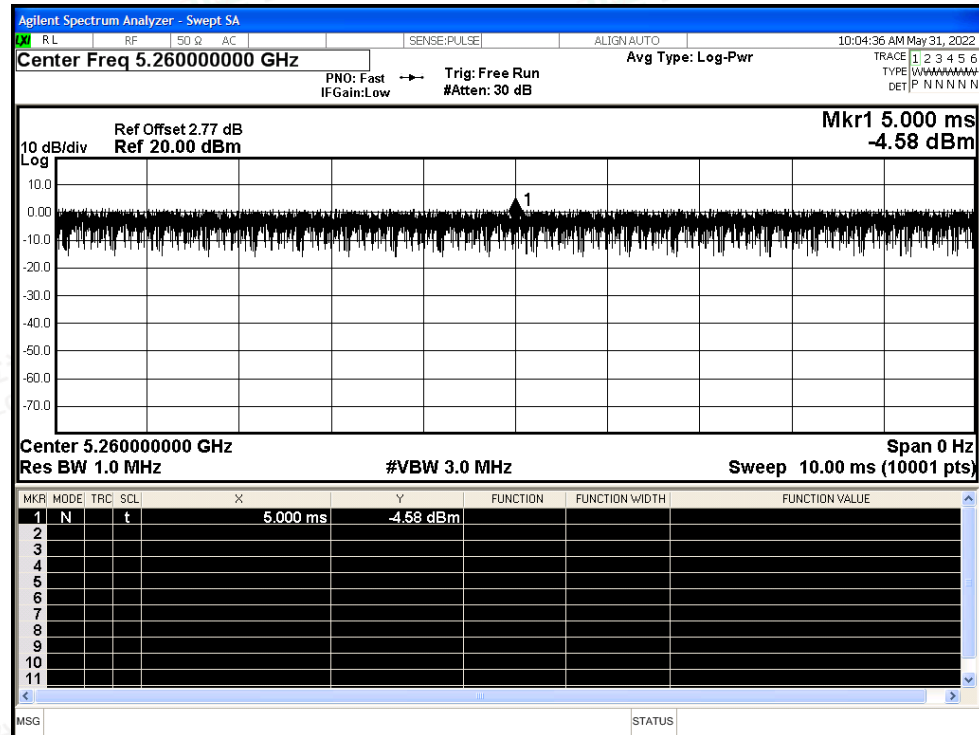
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

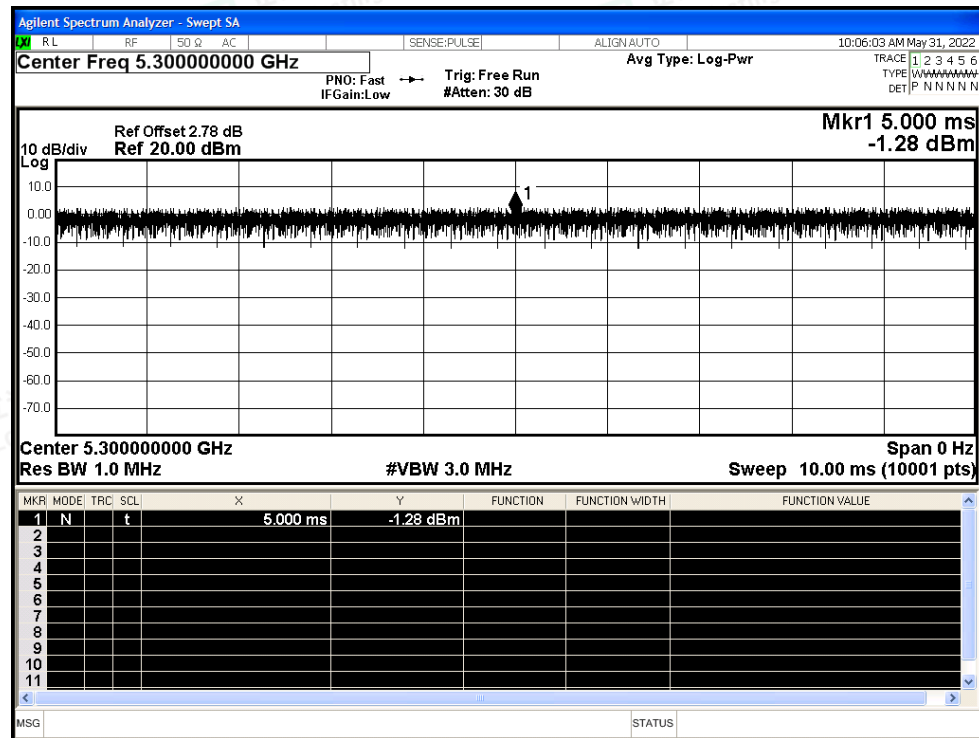


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5300MHz Ant1



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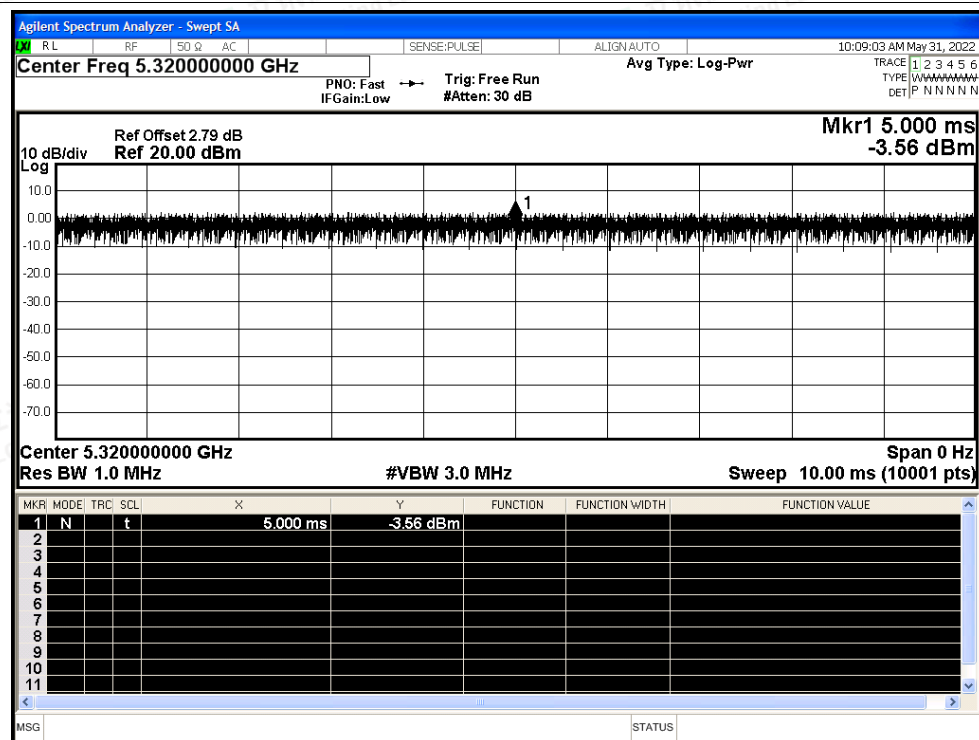
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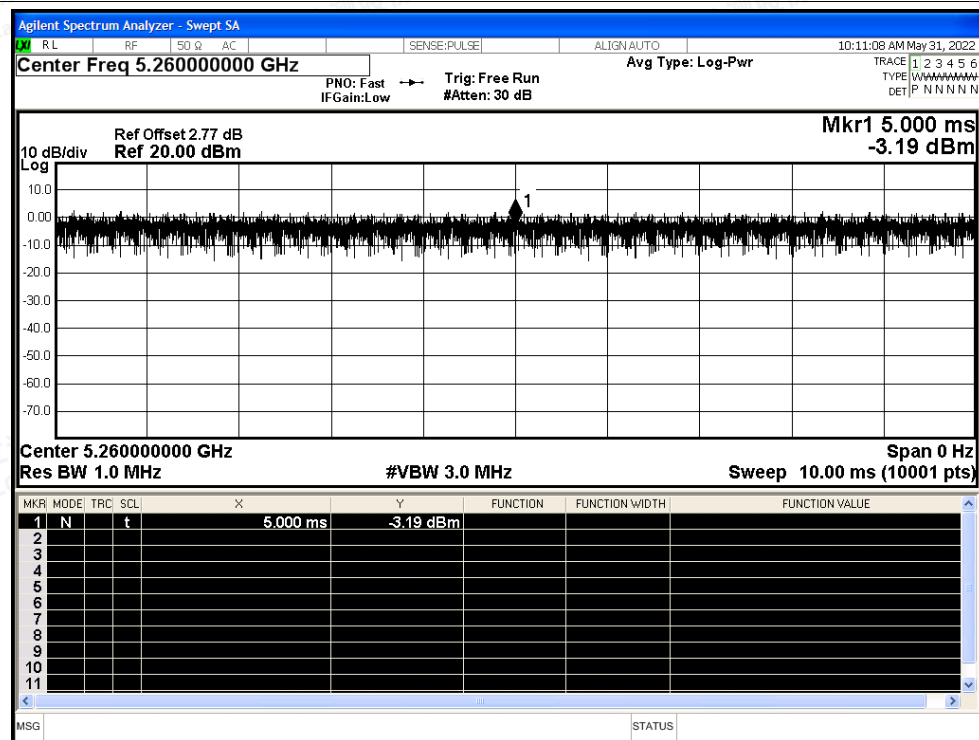
Scan code to check authenticity



Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1

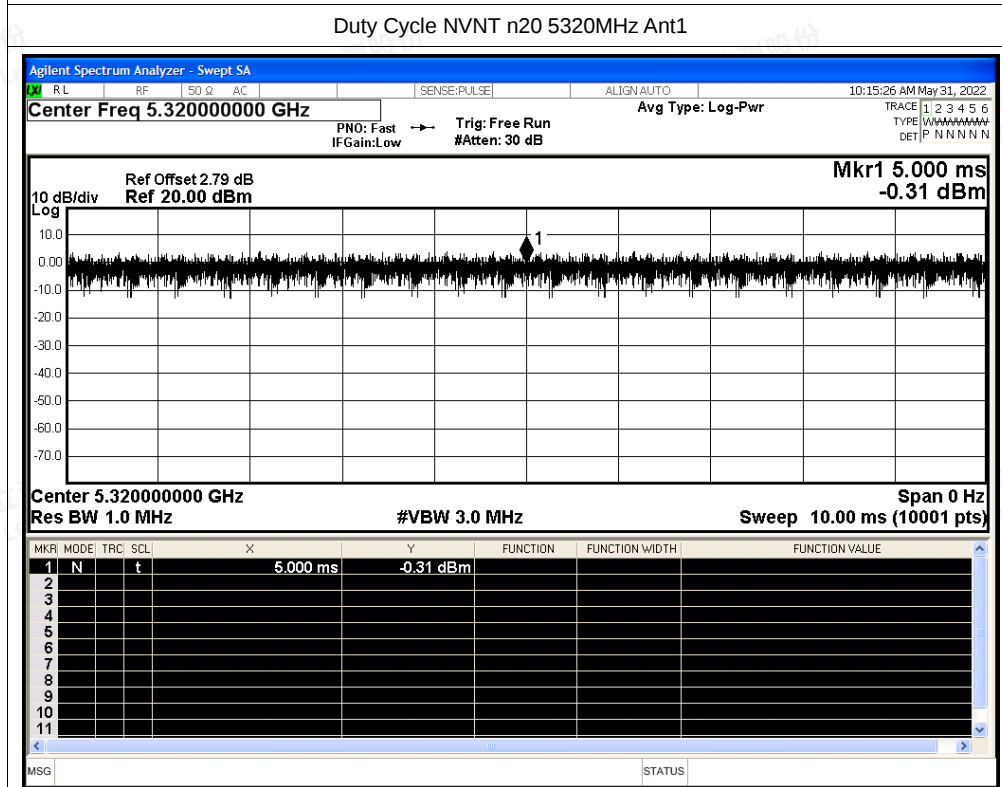
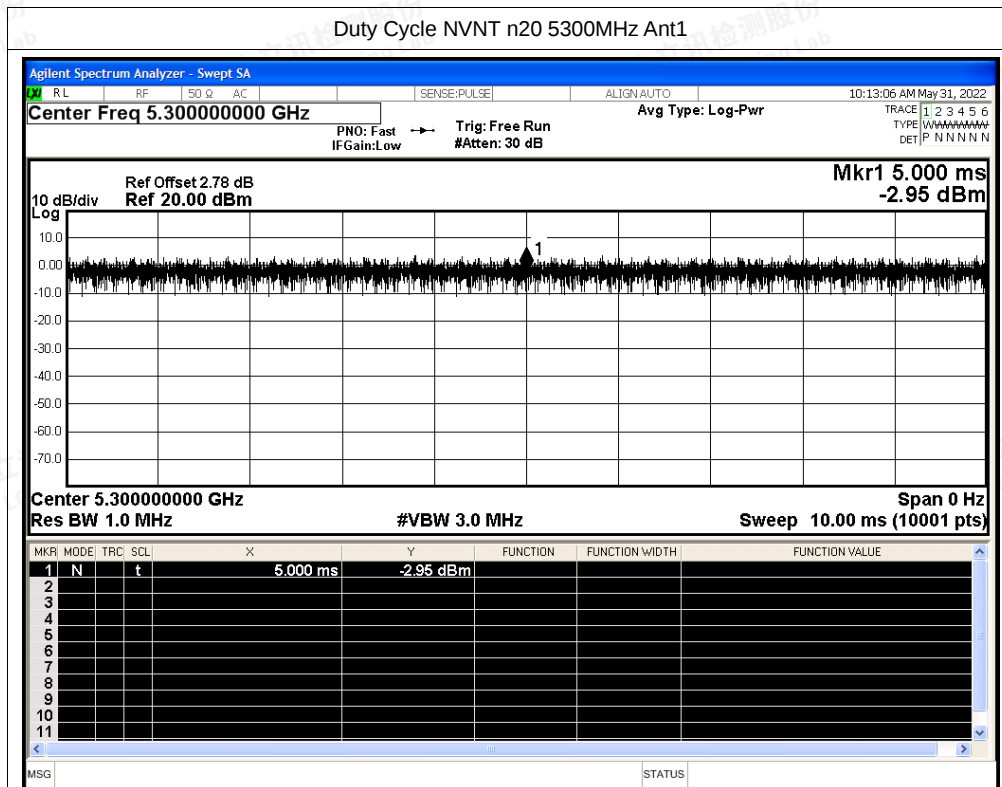


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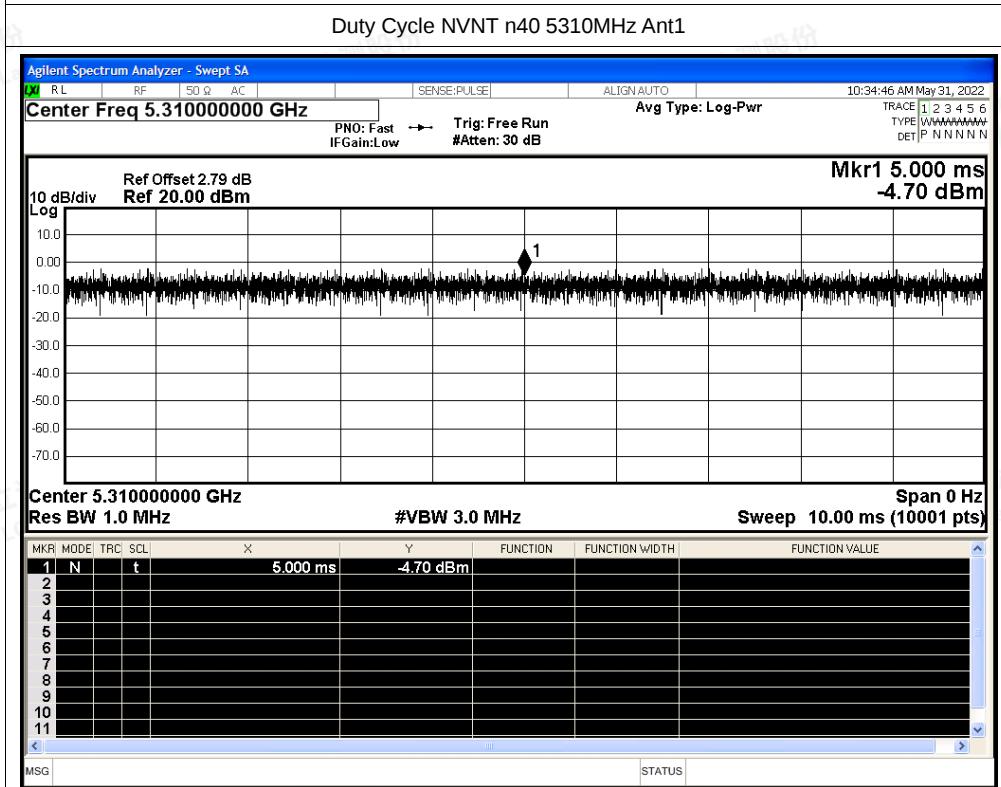
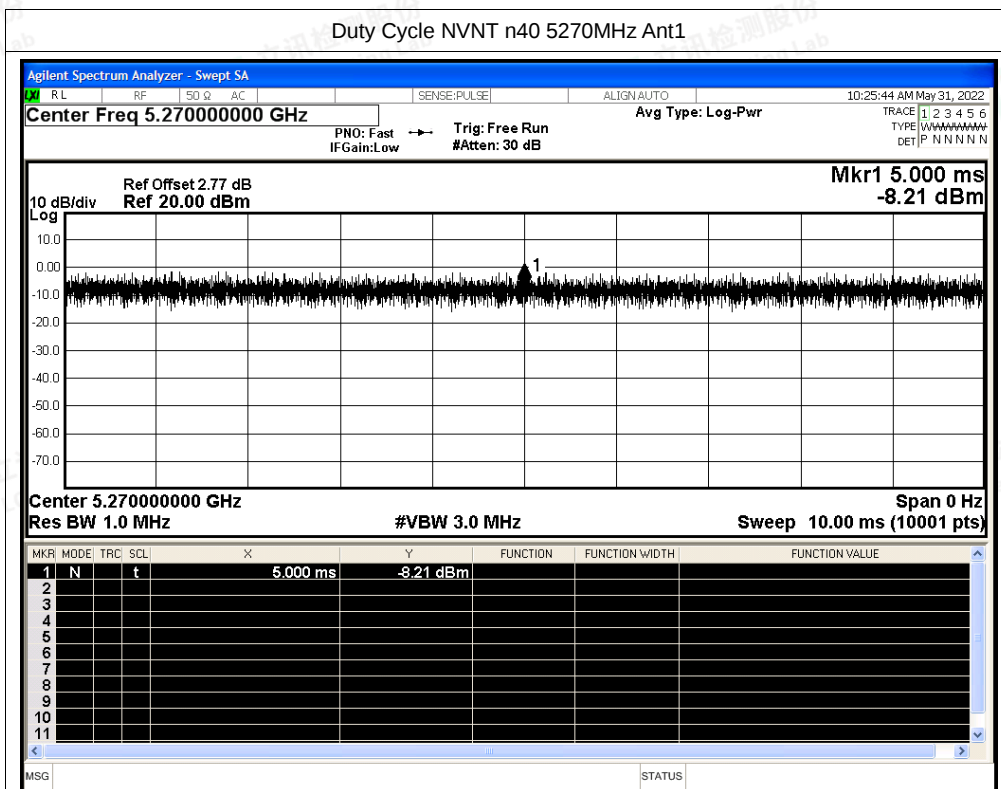


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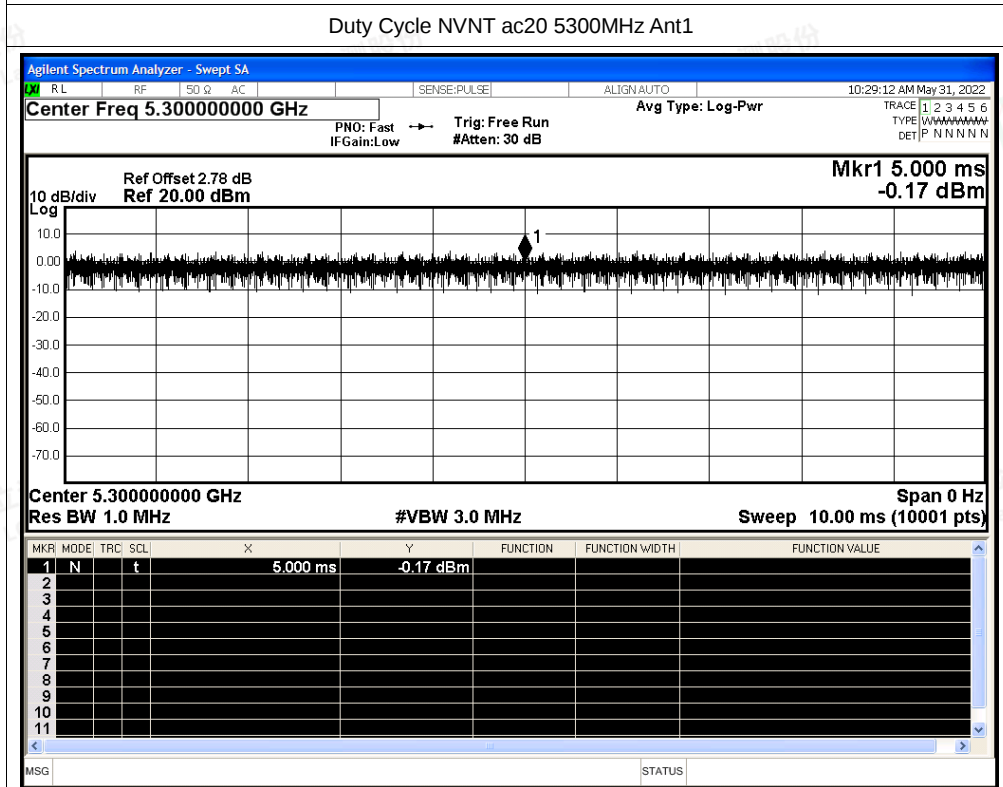
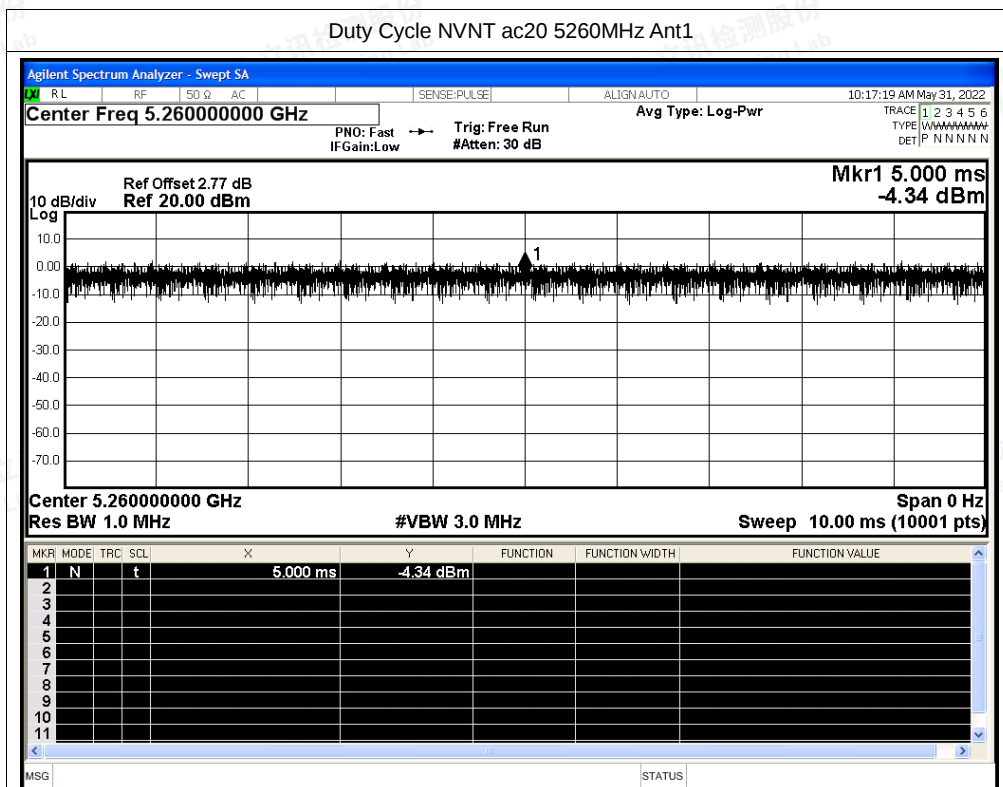


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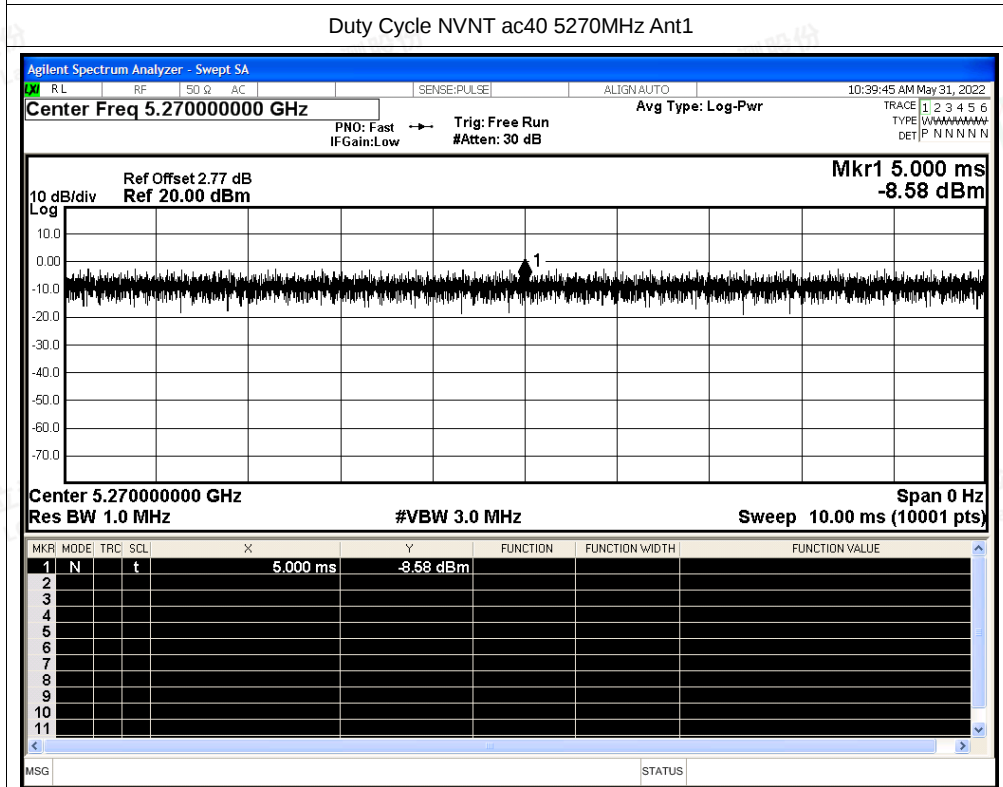
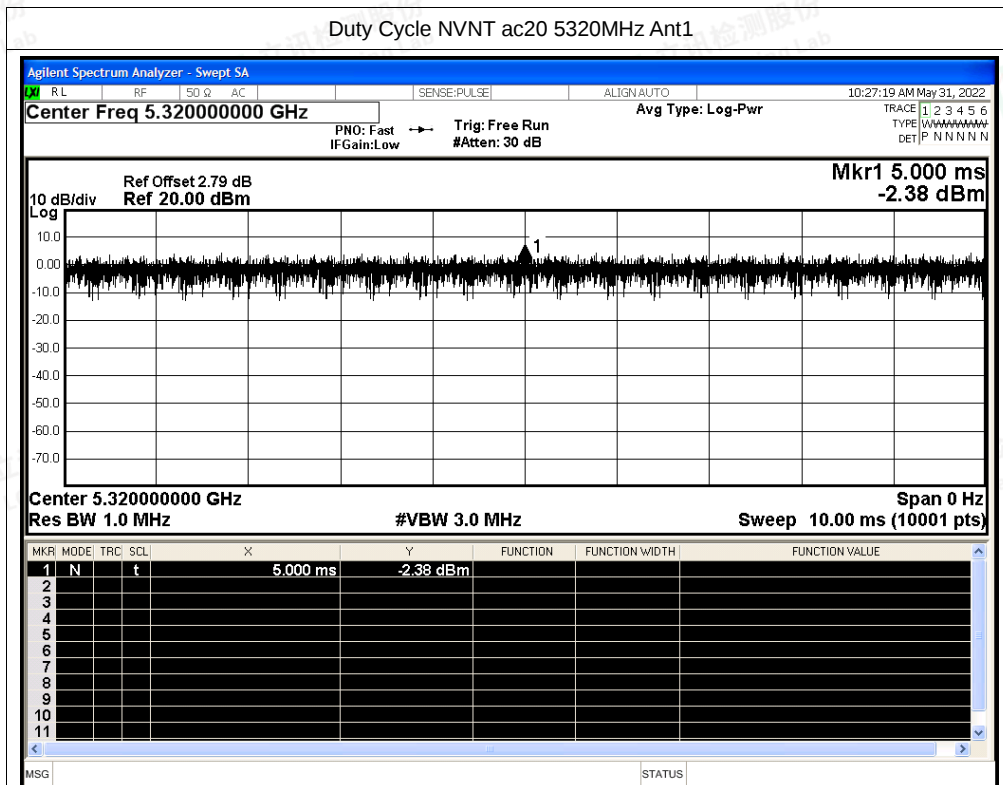


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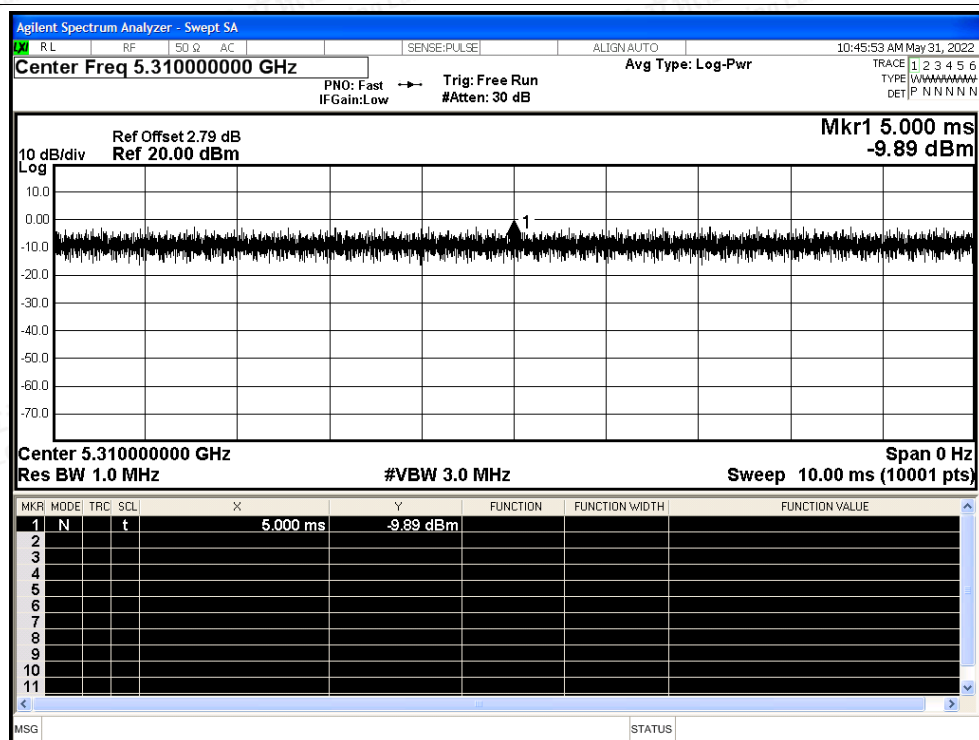
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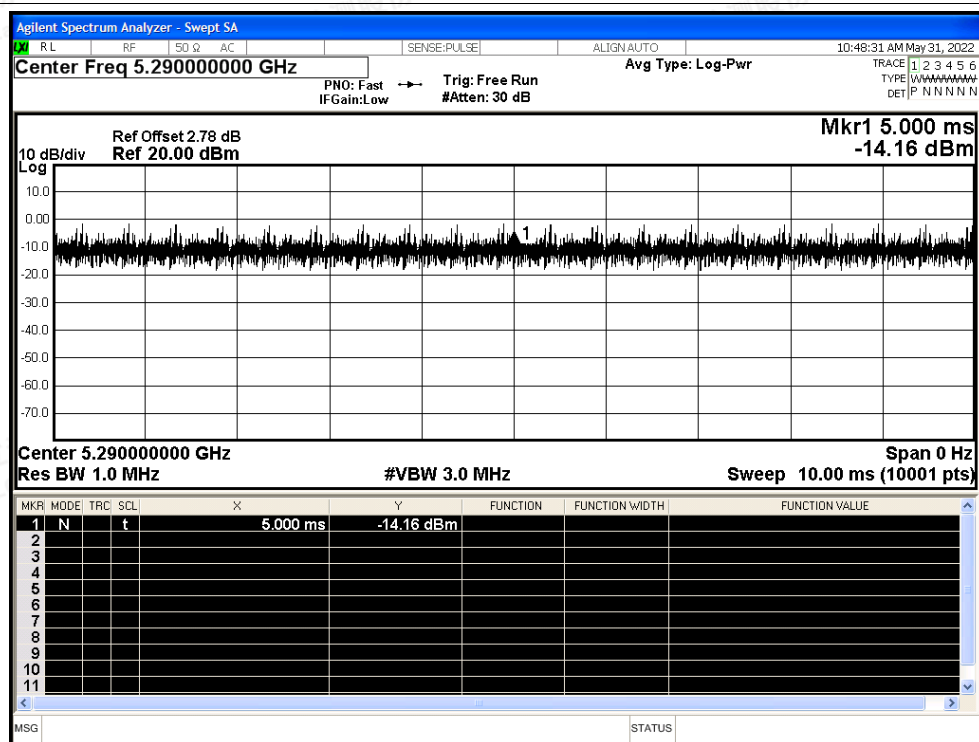
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Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1



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