



## Appendix C

### RF Test Data for 5.3G WIFI (Conducted Measurement)

**Product Name: Wireless USB Adapter**

**Test Model: OpenScope CP10**

#### Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan





### C.1 26dB Bandwidth

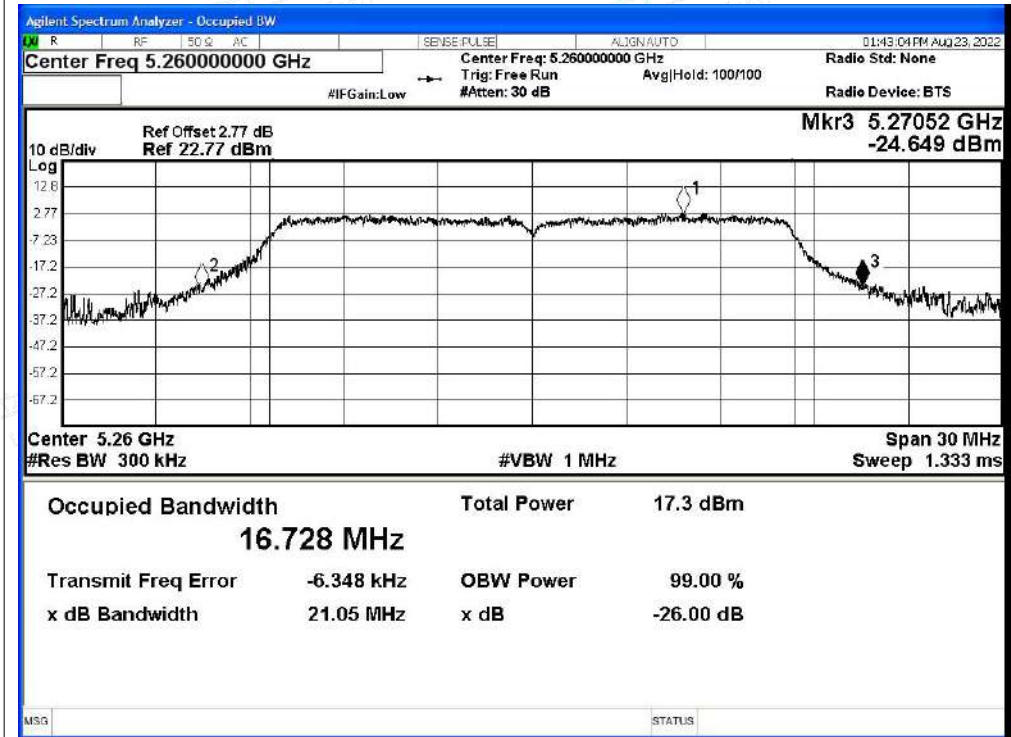
Condition	Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	21.052	Pass
NVNT	a	5300	Ant1	20.793	Pass
NVNT	a	5320	Ant1	20.857	Pass
NVNT	n20	5260	Ant1	21.377	Pass
NVNT	n20	5300	Ant1	21.635	Pass
NVNT	n20	5320	Ant1	21.549	Pass
NVNT	n40	5270	Ant1	41.072	Pass
NVNT	n40	5310	Ant1	41.202	Pass
NVNT	ac20	5260	Ant1	21.651	Pass
NVNT	ac20	5300	Ant1	21.808	Pass
NVNT	ac20	5320	Ant1	21.67	Pass
NVNT	ac40	5270	Ant1	40.67	Pass
NVNT	ac40	5310	Ant1	40.772	Pass
NVNT	ac80	5290	Ant1	79.994	Pass



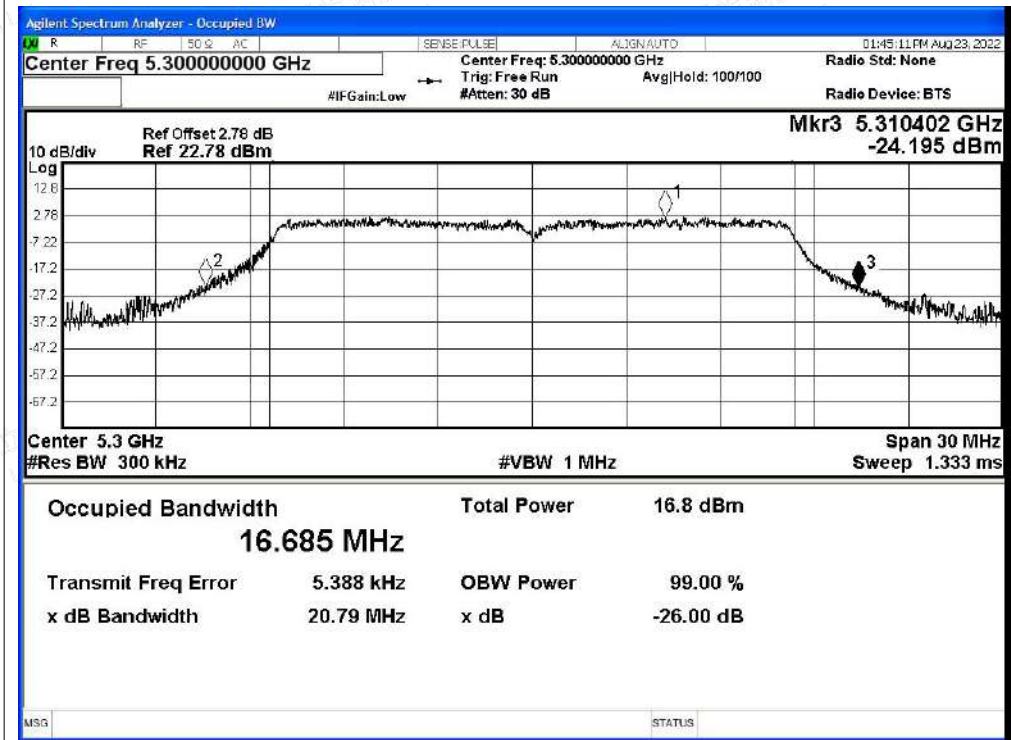


Test Graphs

26dB Bandwidth NVNT a 5260MHz Ant1



26dB Bandwidth NVNT a 5300MHz Ant1



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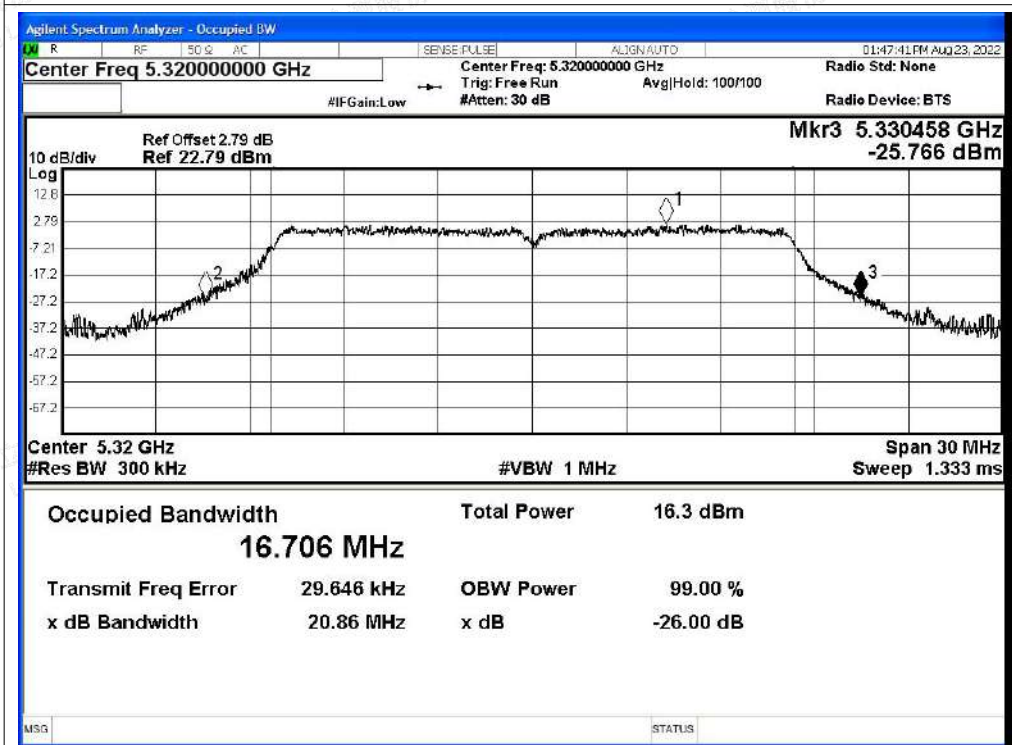
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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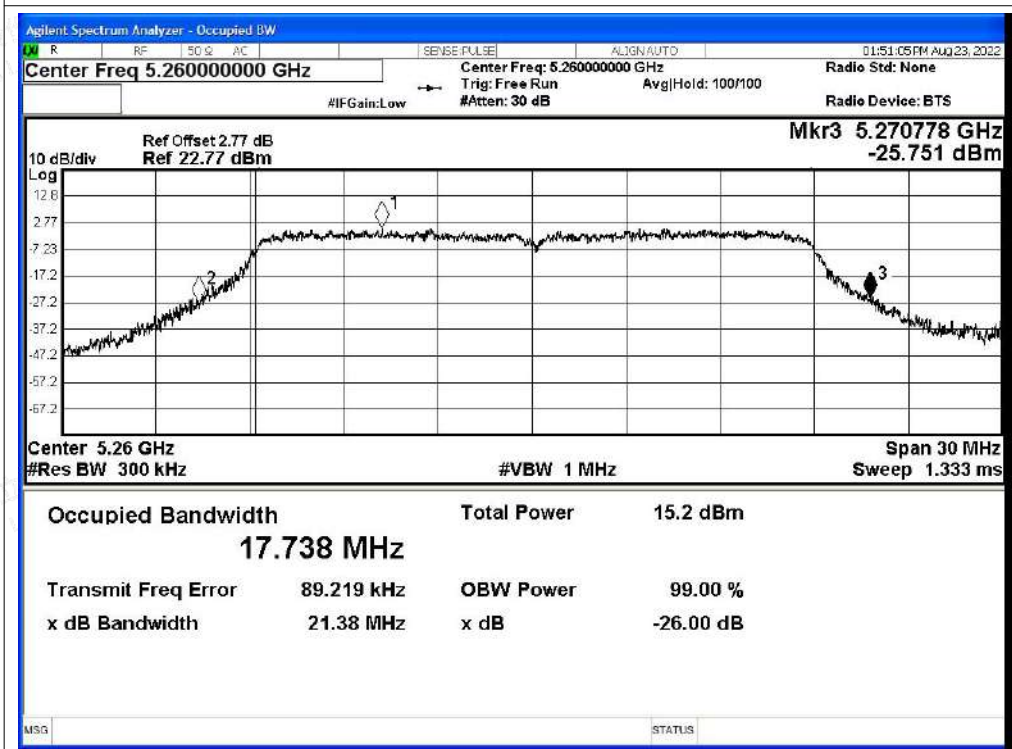
Scan code to check authenticity



26dB Bandwidth NVNT a 5320MHz Ant1



26dB Bandwidth NVNT n20 5260MHz Ant1

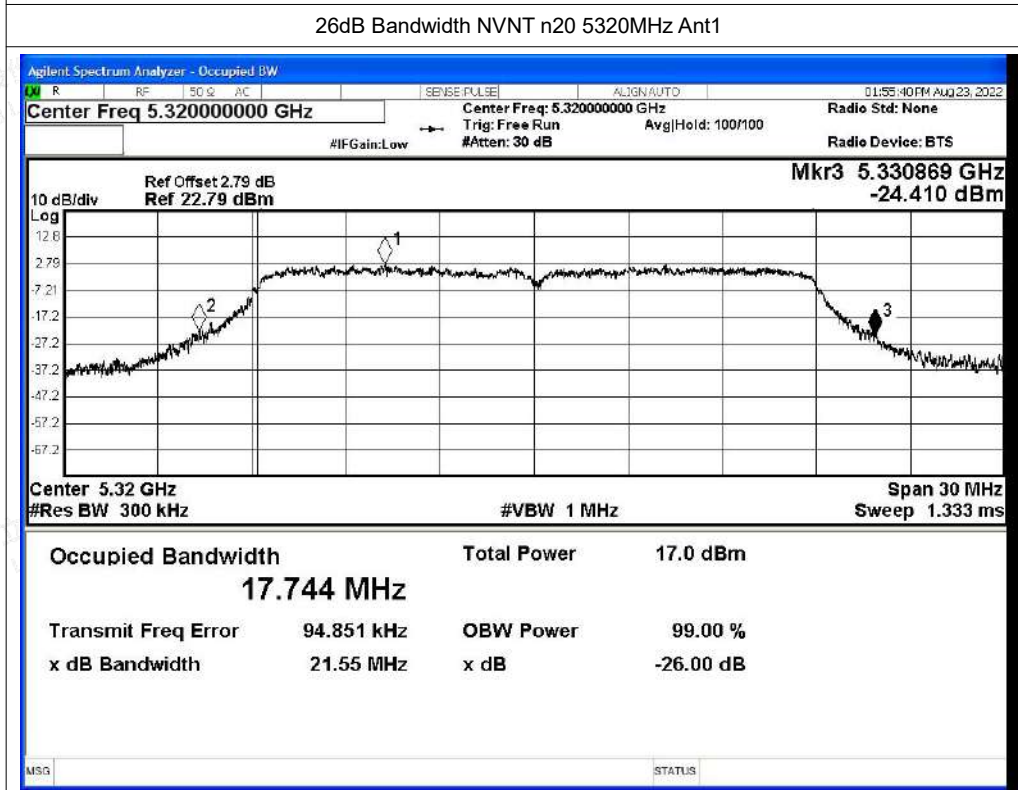
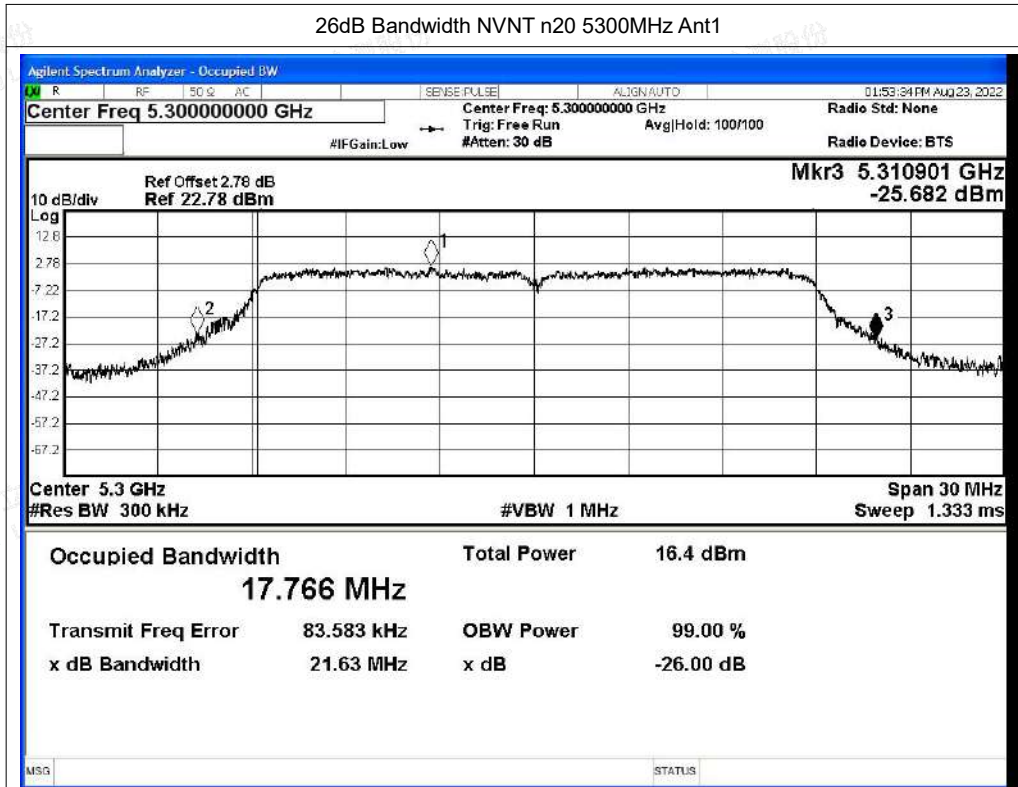


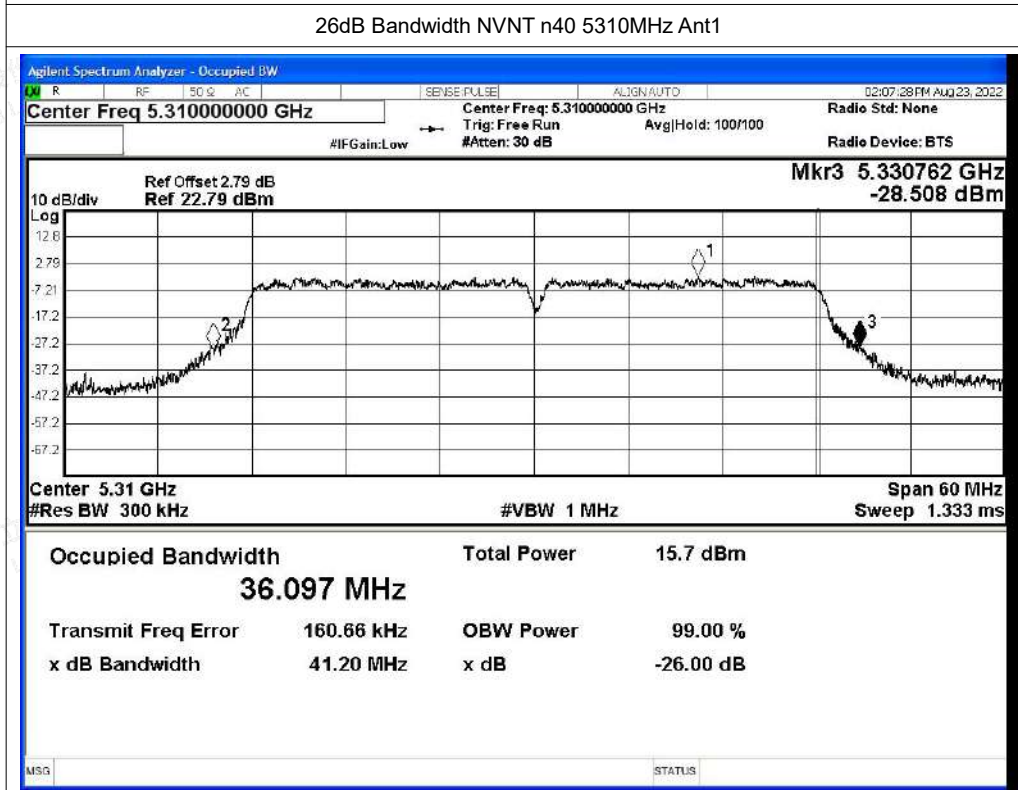
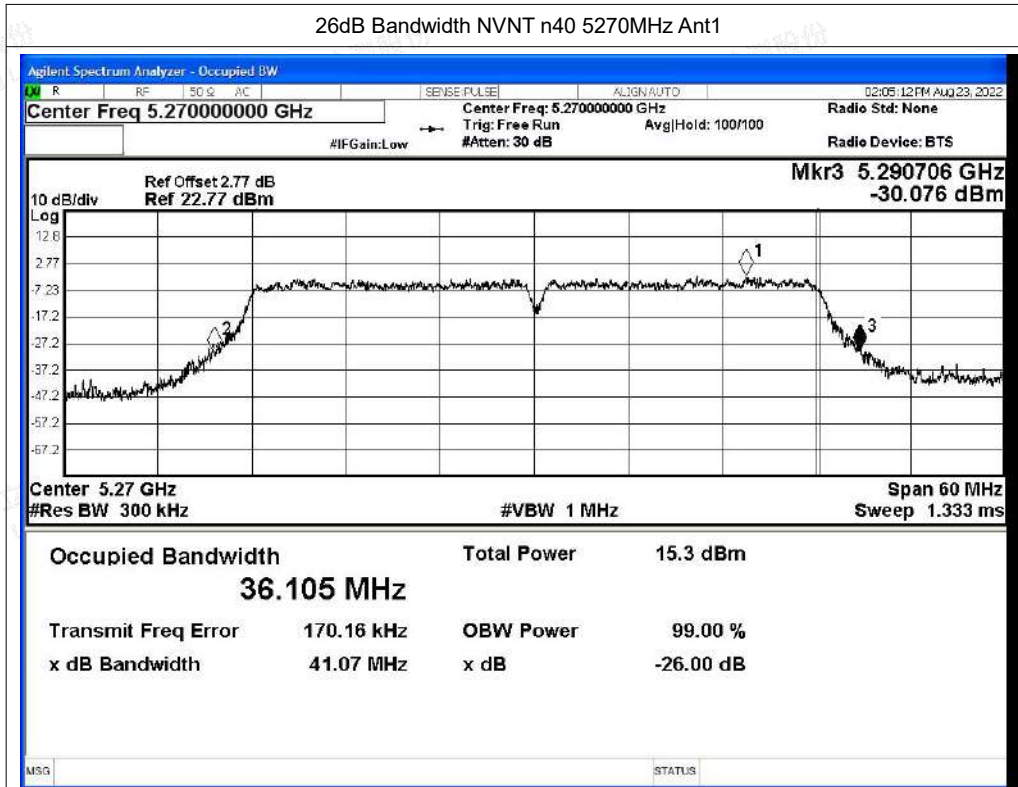
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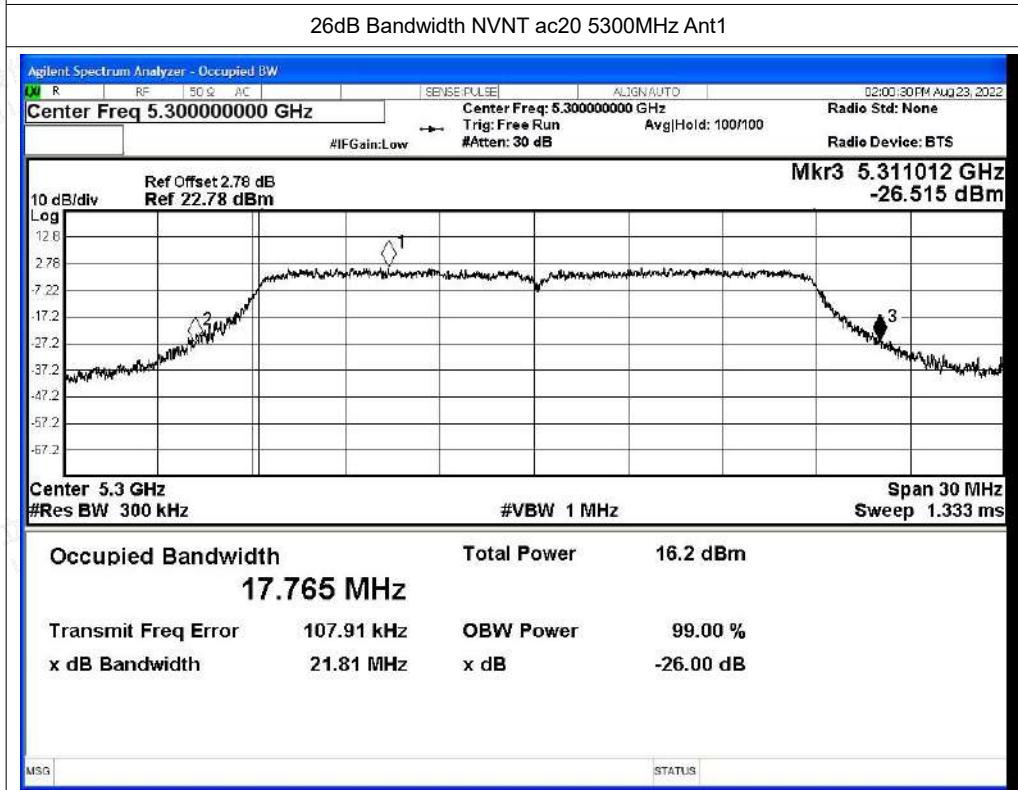
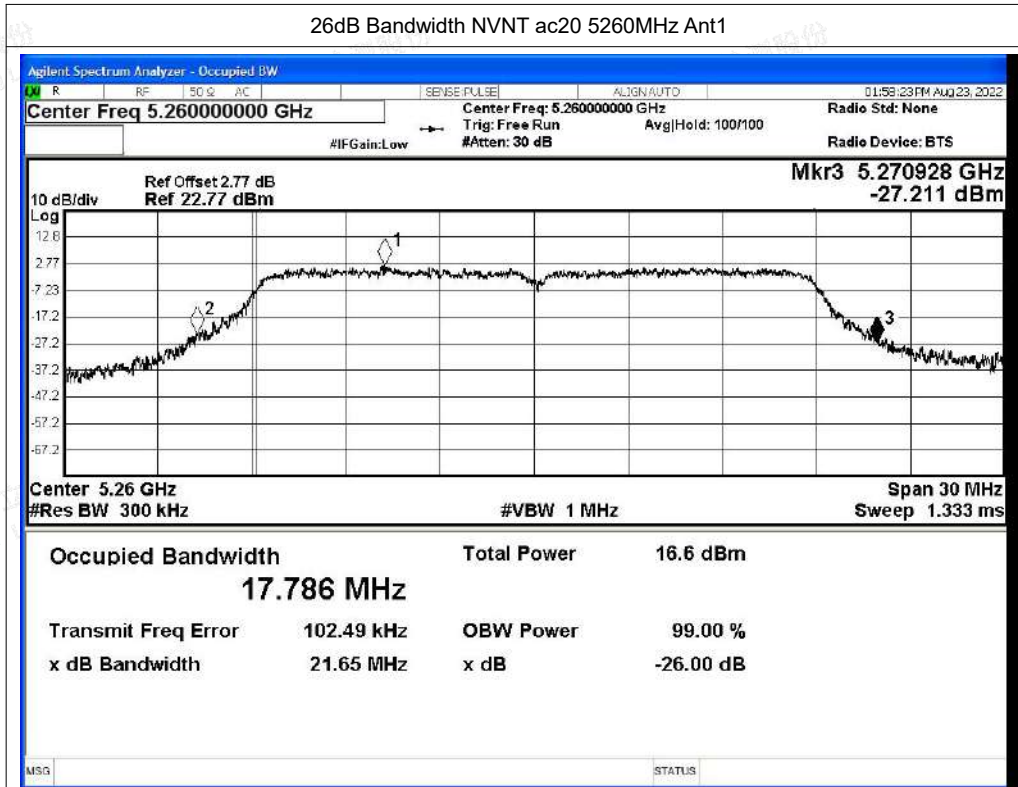


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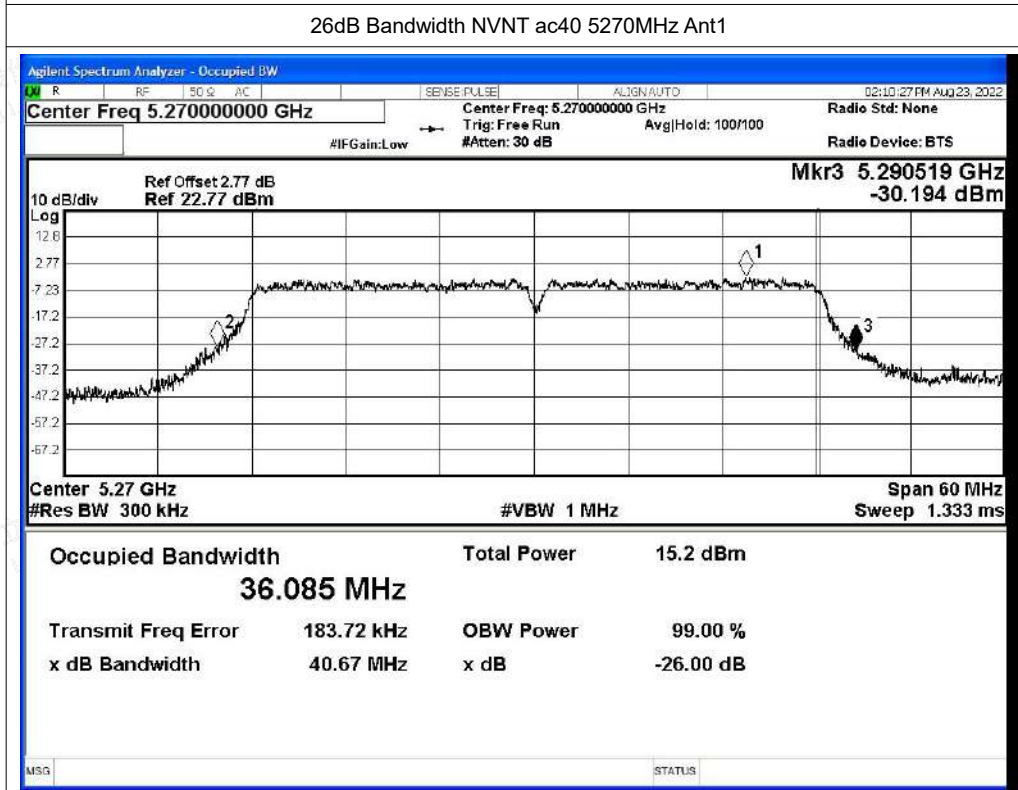
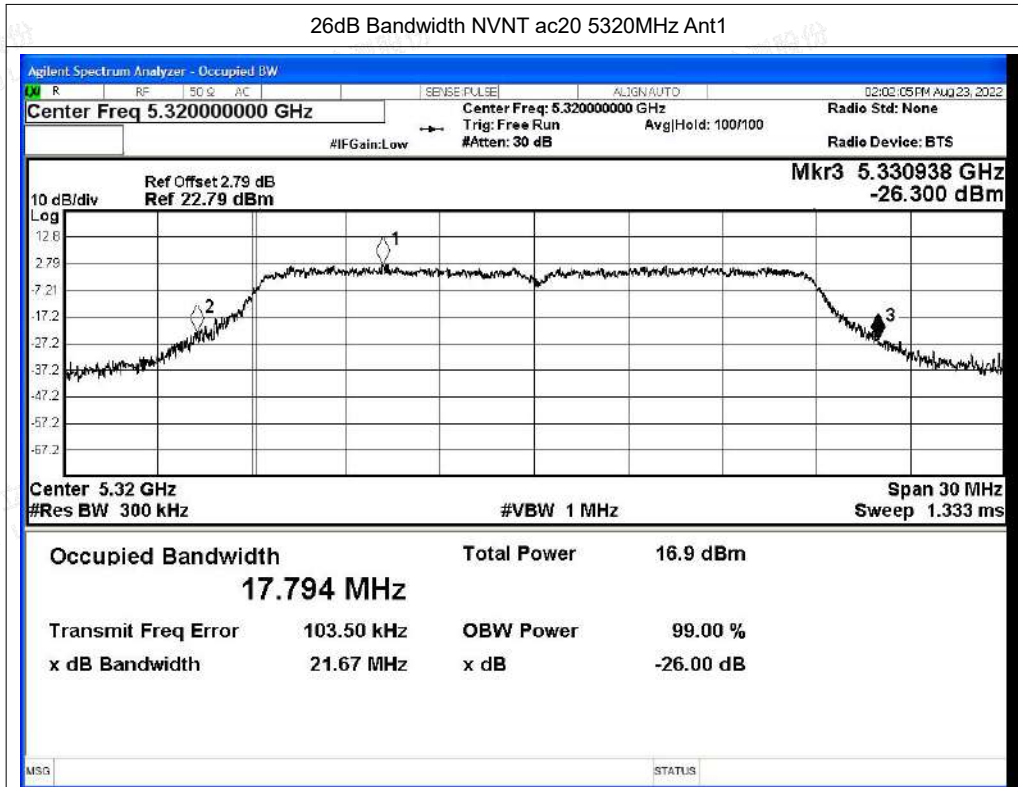


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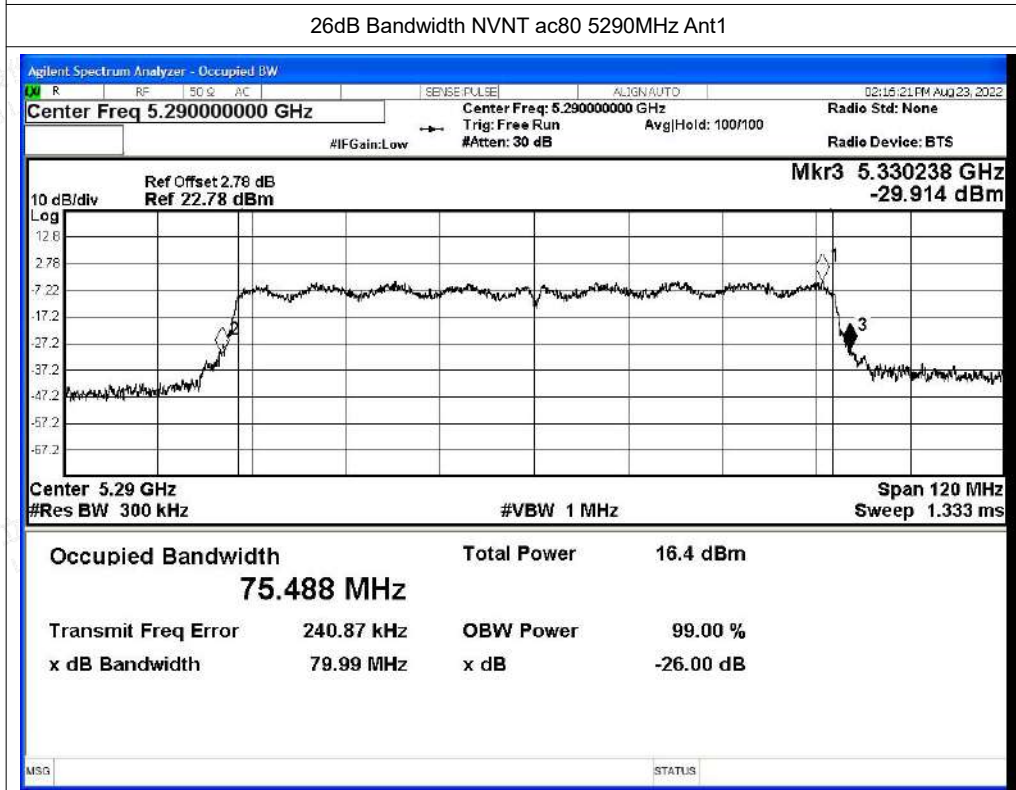
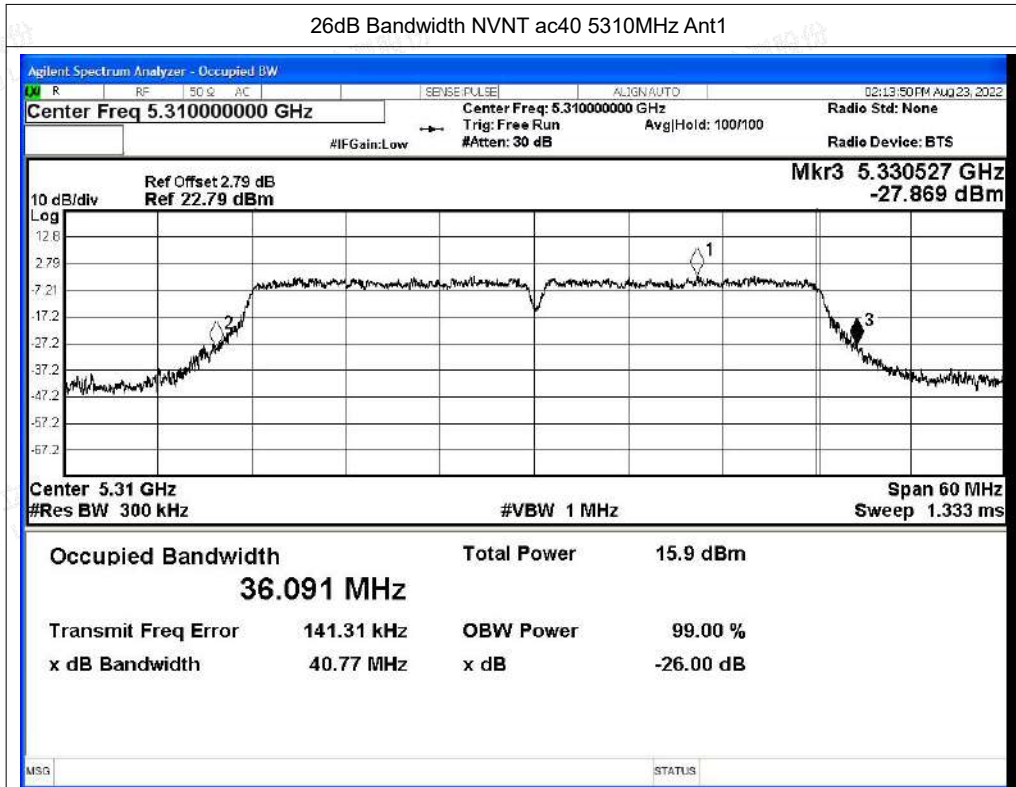
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### C.2 Occupied Channel Bandwidth

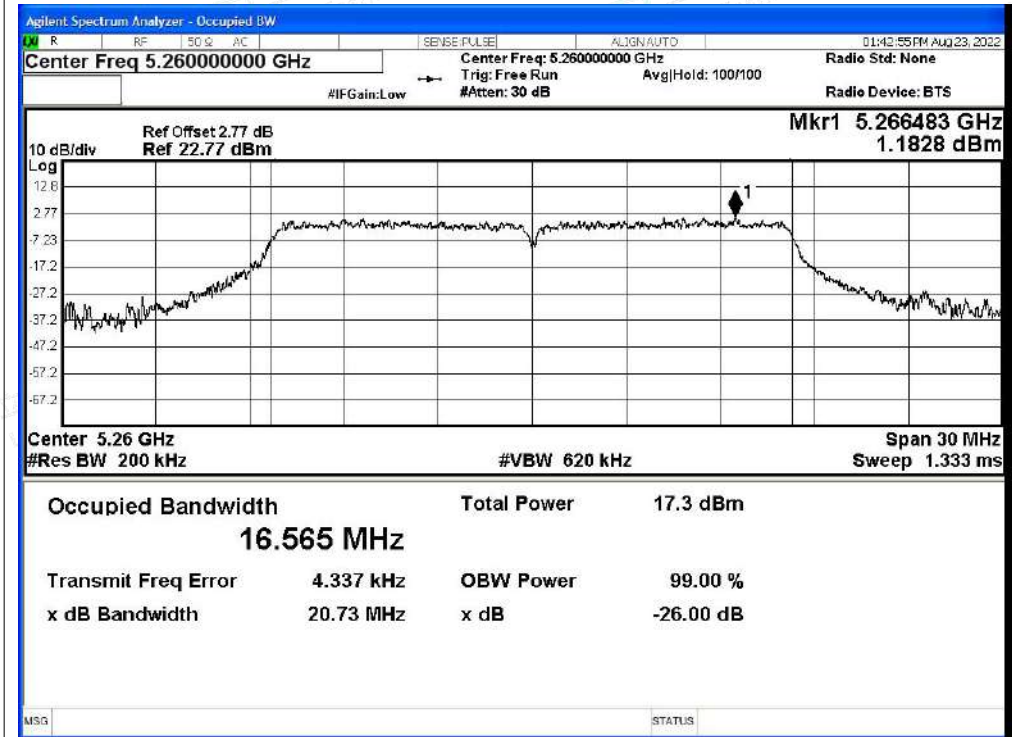
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.565
NVNT	a	5300	Ant1	16.539
NVNT	a	5320	Ant1	16.544
NVNT	n20	5260	Ant1	17.658
NVNT	n20	5300	Ant1	17.673
NVNT	n20	5320	Ant1	17.683
NVNT	n40	5270	Ant1	36.175
NVNT	n40	5310	Ant1	36.146
NVNT	ac20	5260	Ant1	17.671
NVNT	ac20	5300	Ant1	17.666
NVNT	ac20	5320	Ant1	17.668
NVNT	ac40	5270	Ant1	36.144
NVNT	ac40	5310	Ant1	36.166
NVNT	ac80	5290	Ant1	75.57



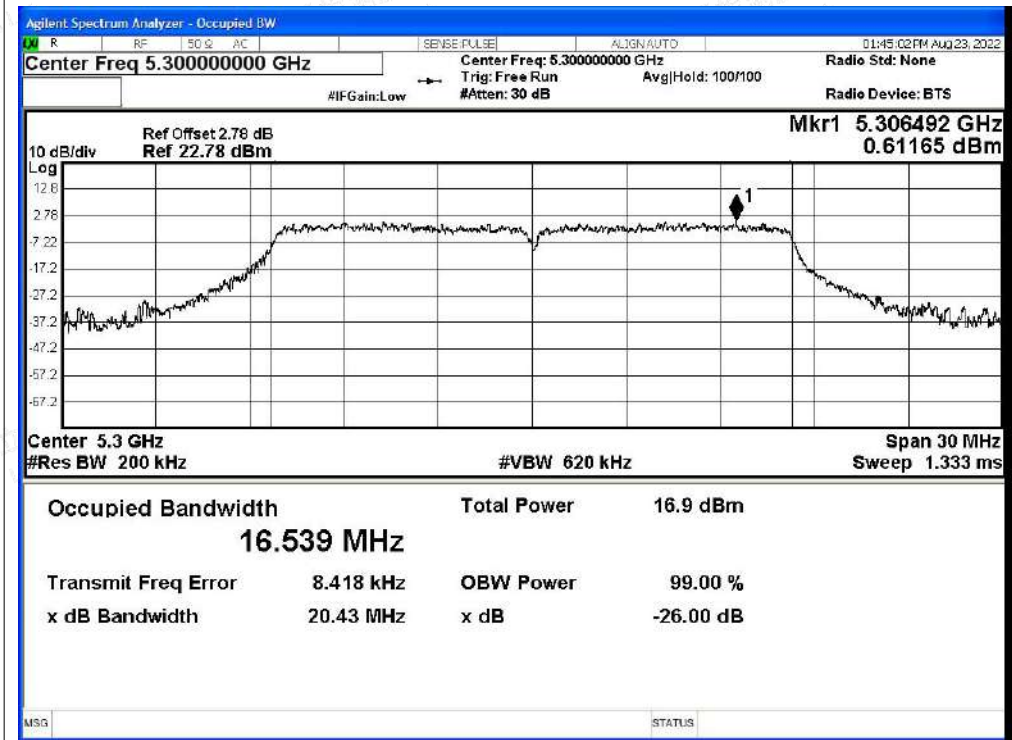


Test Graphs

OBW NVNT a 5260MHz Ant1



OBW NVNT a 5300MHz Ant1

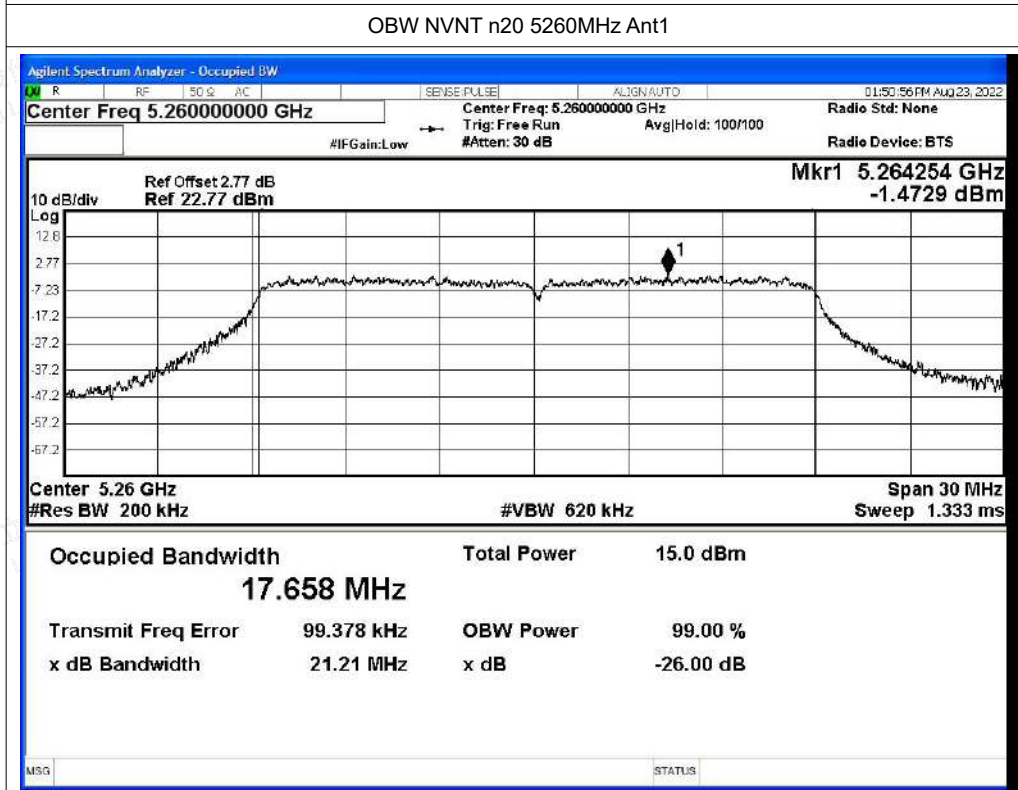
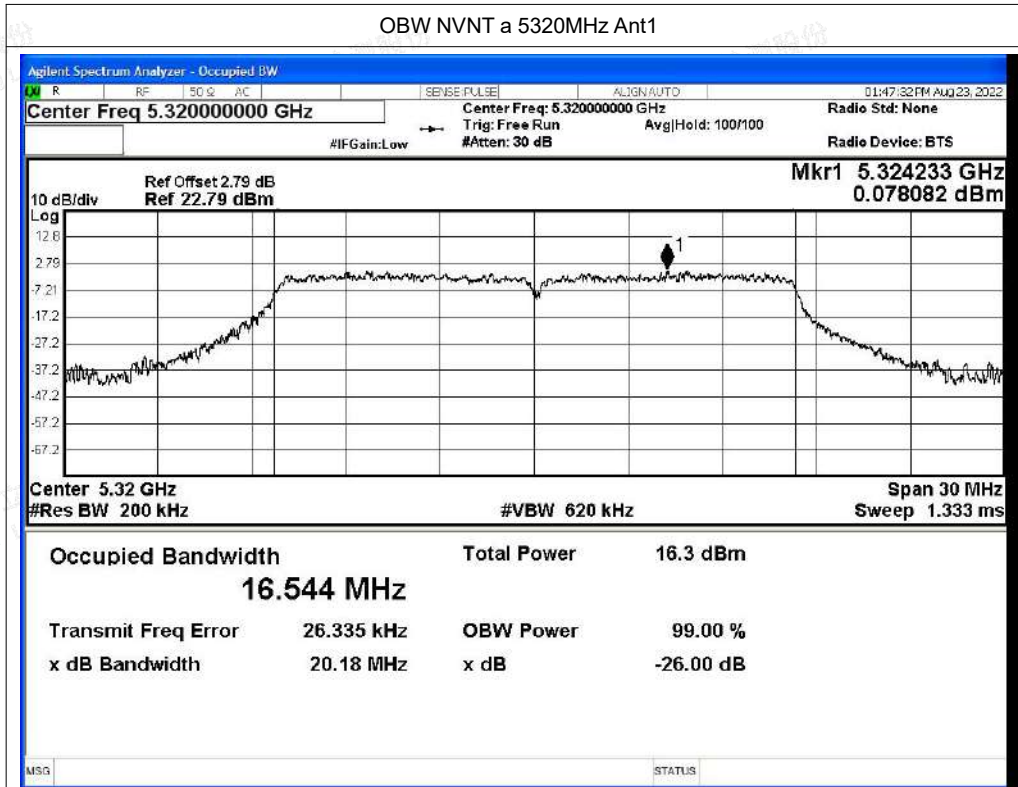


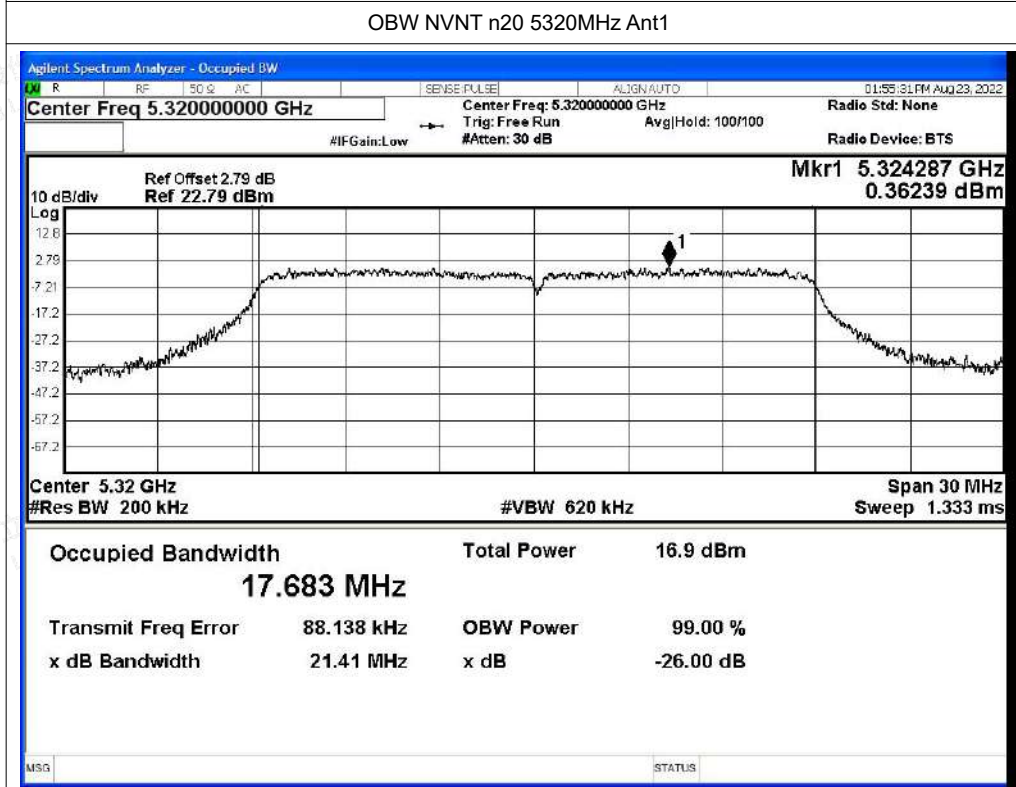
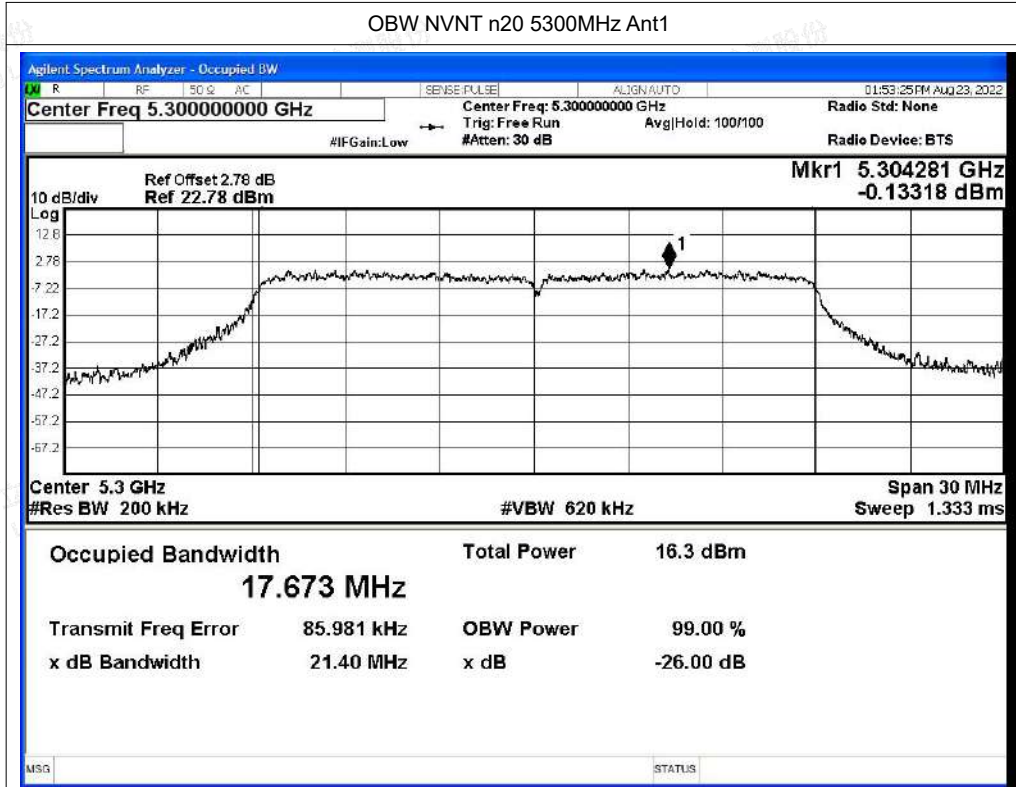
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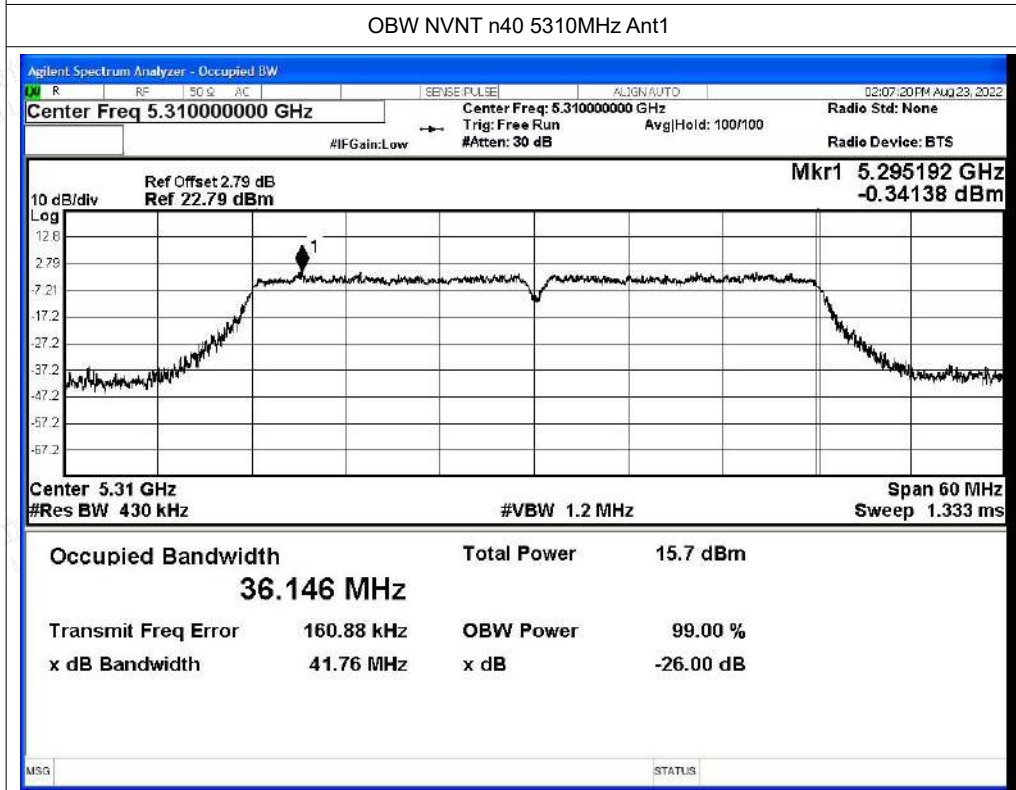
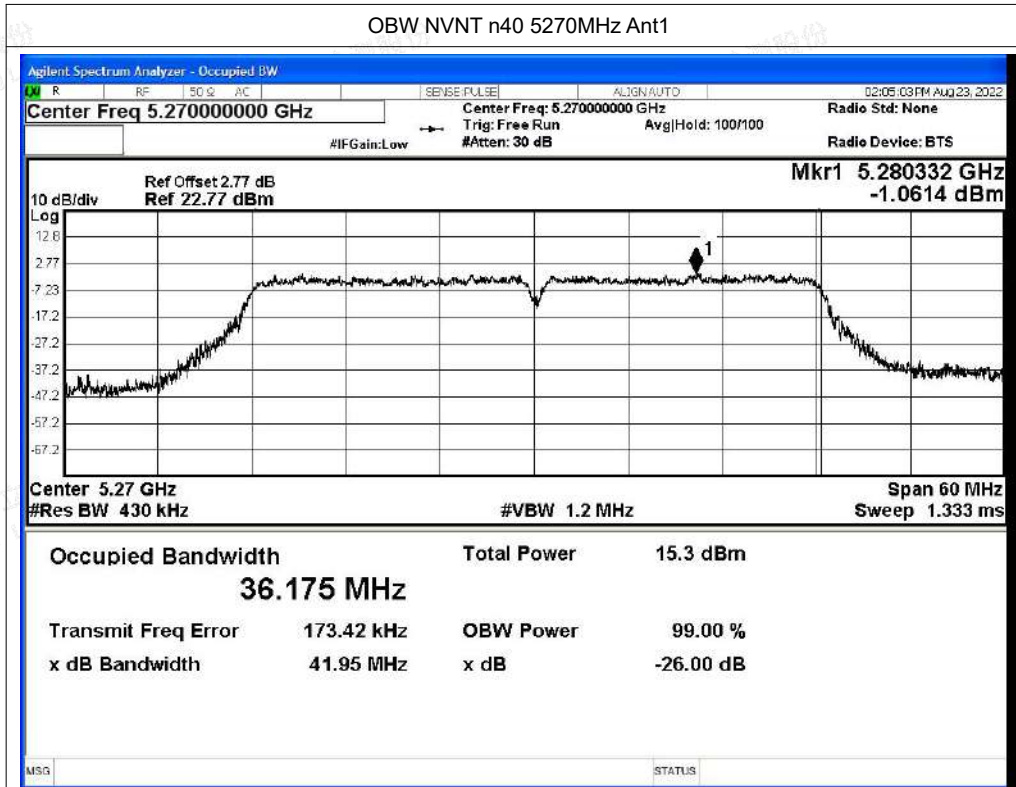
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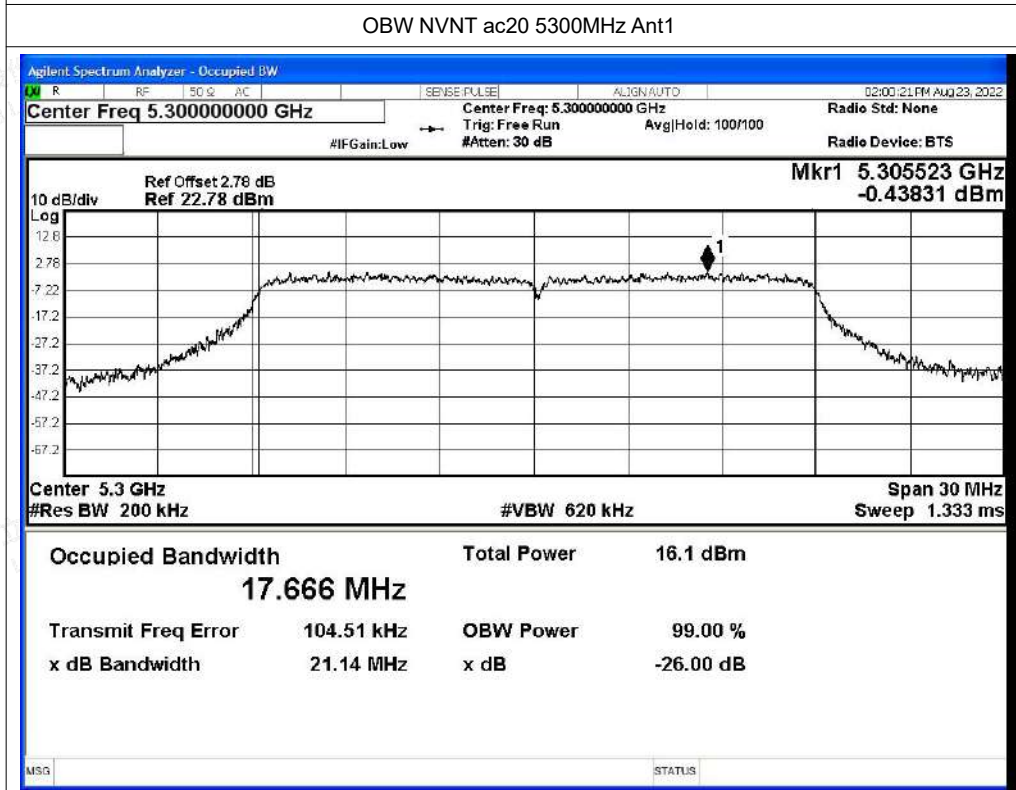
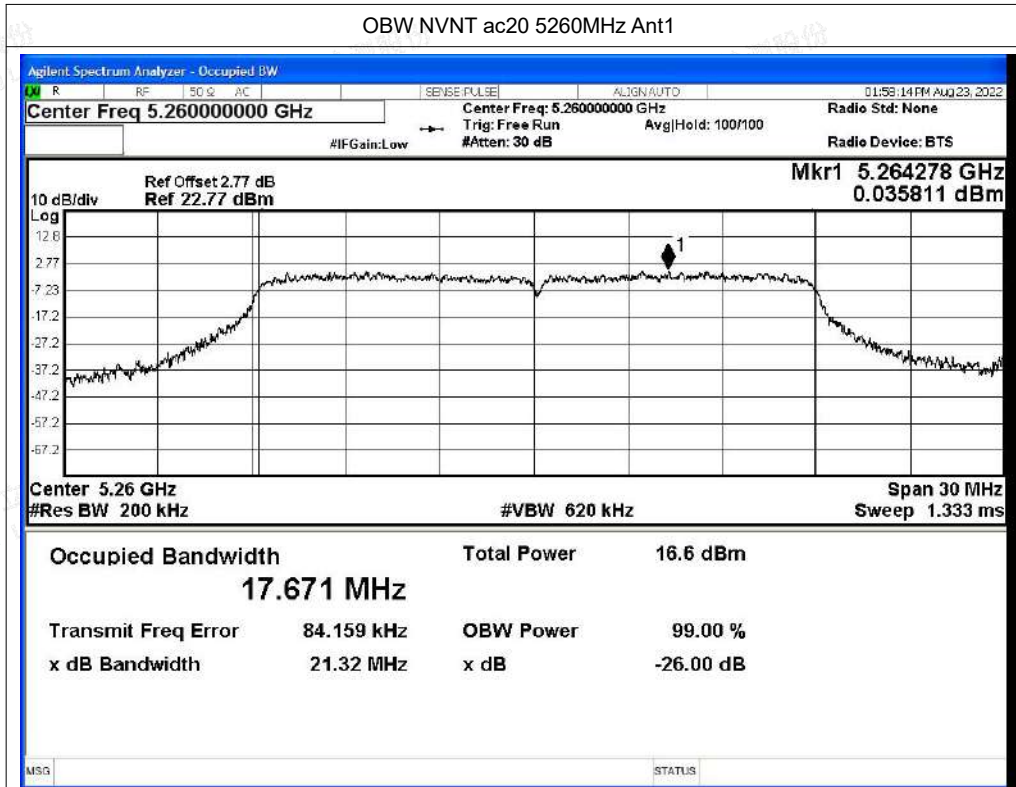
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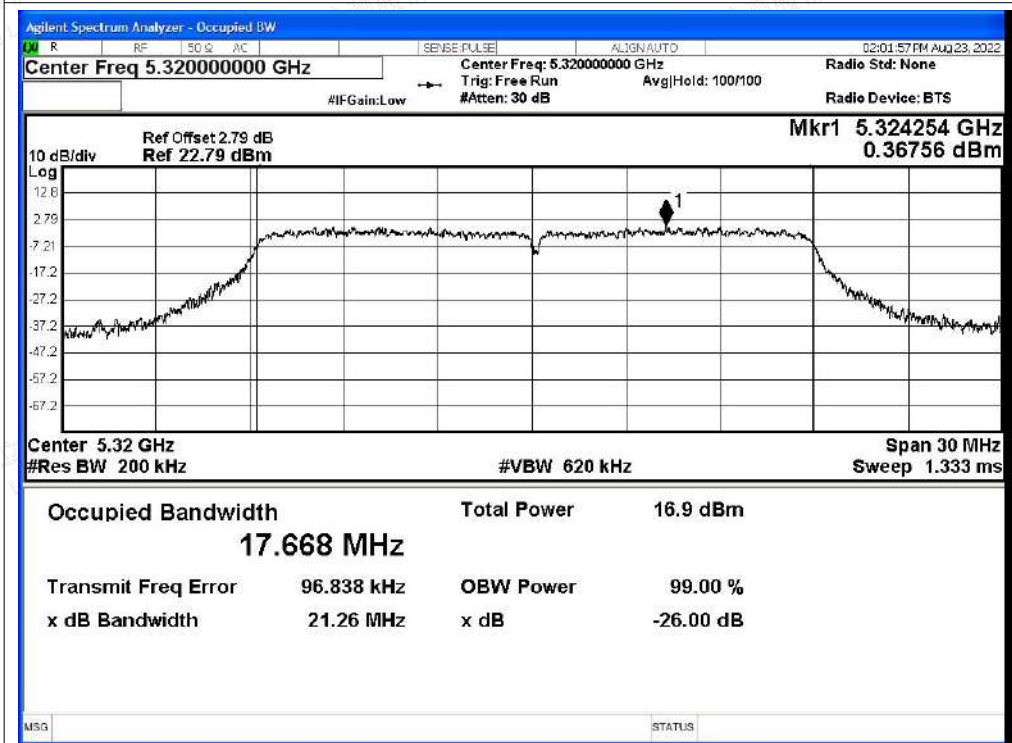




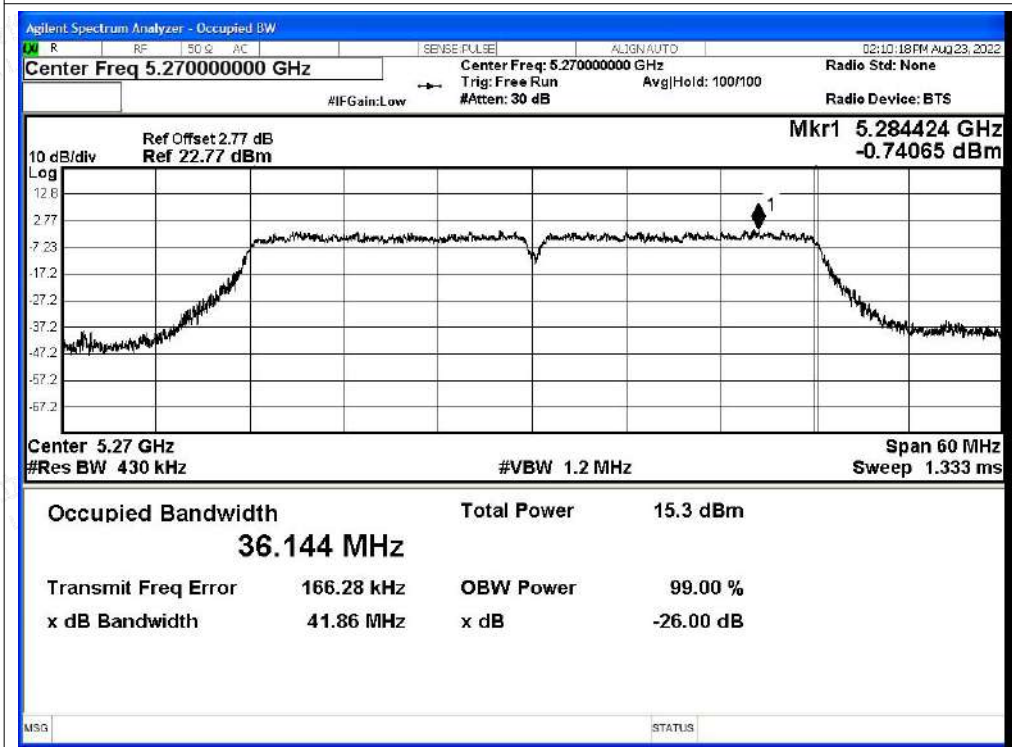




OBW NVNT ac20 5320MHz Ant1



OBW NVNT ac40 5270MHz Ant1



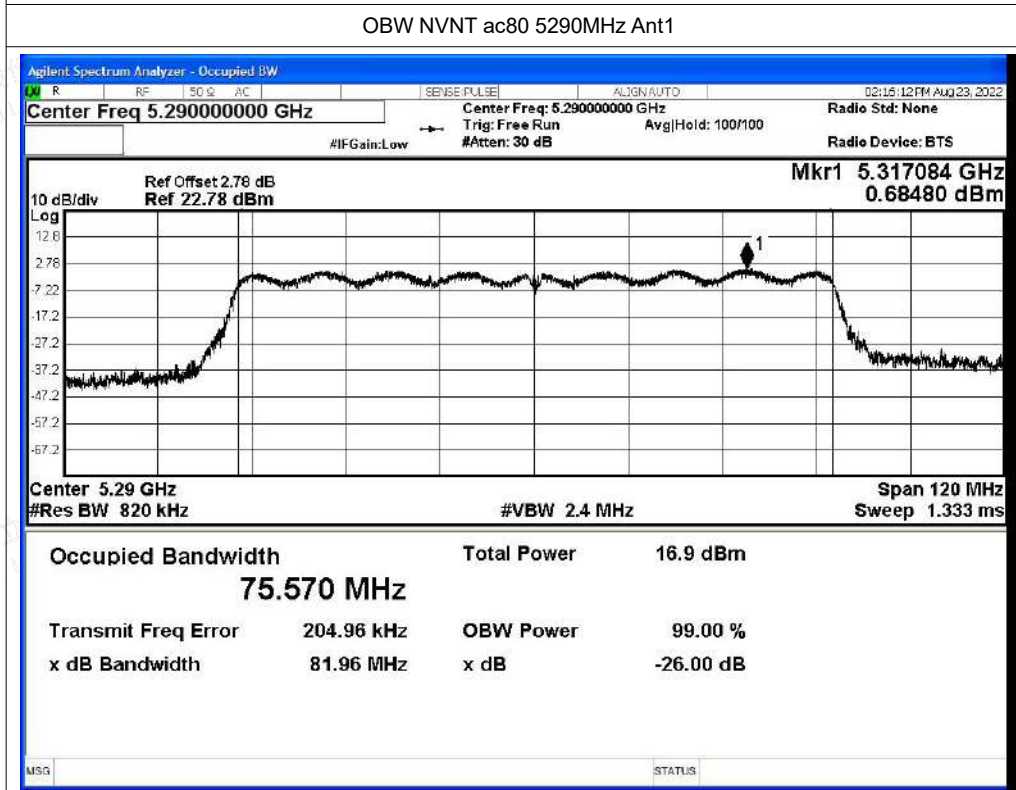
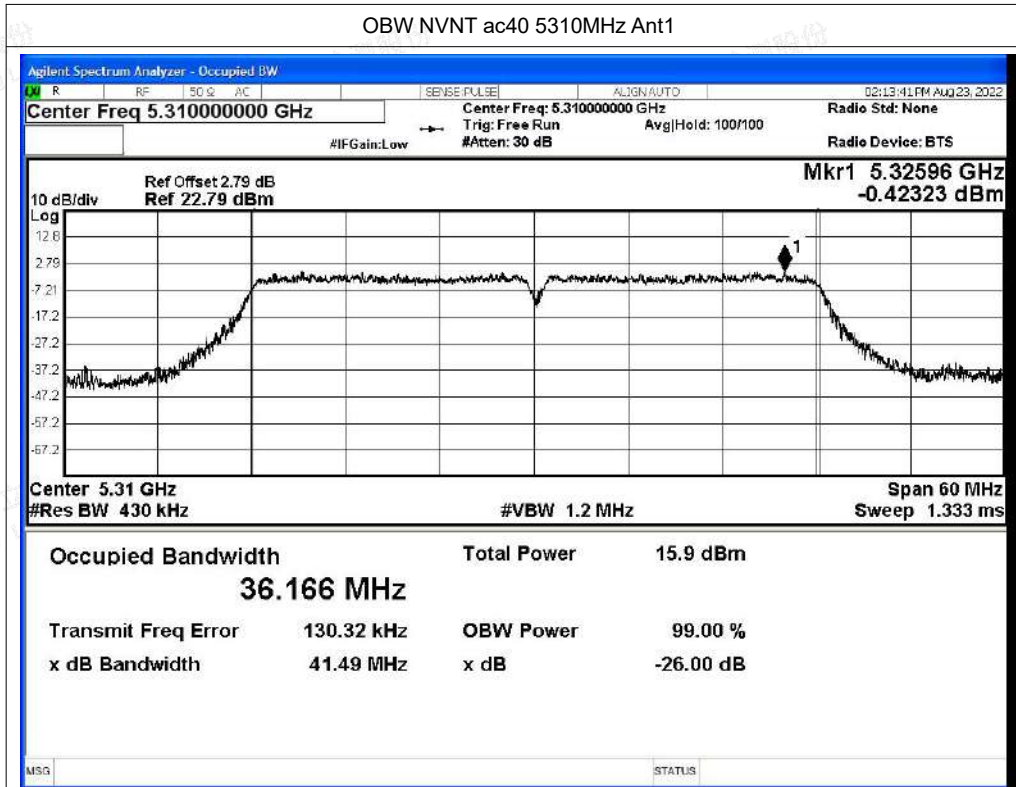
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### C.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Antenna Gain	EIRP Power(dBm)	EIRP Limit (dBm)	Verdict
NVNT	a	5260	Ant1	14.98	24	4.39	19.37	30	Pass
NVNT	a	5300	Ant1	15.23	24	4.39	19.62	30	Pass
NVNT	a	5320	Ant1	15.02	24	4.39	19.41	30	Pass
NVNT	n20	5260	Ant1	15.13	24	4.39	19.52	30	Pass
NVNT	n20	5300	Ant1	15.31	24	4.39	19.7	30	Pass
NVNT	n20	5320	Ant1	15.22	24	4.39	19.61	30	Pass
NVNT	n40	5270	Ant1	15.39	24	4.39	19.78	30	Pass
NVNT	n40	5310	Ant1	15.51	24	4.39	19.9	30	Pass
NVNT	ac20	5260	Ant1	15.02	24	4.39	19.41	30	Pass
NVNT	ac20	5300	Ant1	14.95	24	4.39	19.34	30	Pass
NVNT	ac20	5320	Ant1	15.18	24	4.39	19.57	30	Pass
NVNT	ac40	5270	Ant1	15.4	24	4.39	19.79	30	Pass
NVNT	ac40	5310	Ant1	16.26	24	4.39	20.65	30	Pass
NVNT	ac80	5290	Ant1	15.23	24	4.39	19.62	30	Pass





### C.4 Maximum Power Spectral Density Level

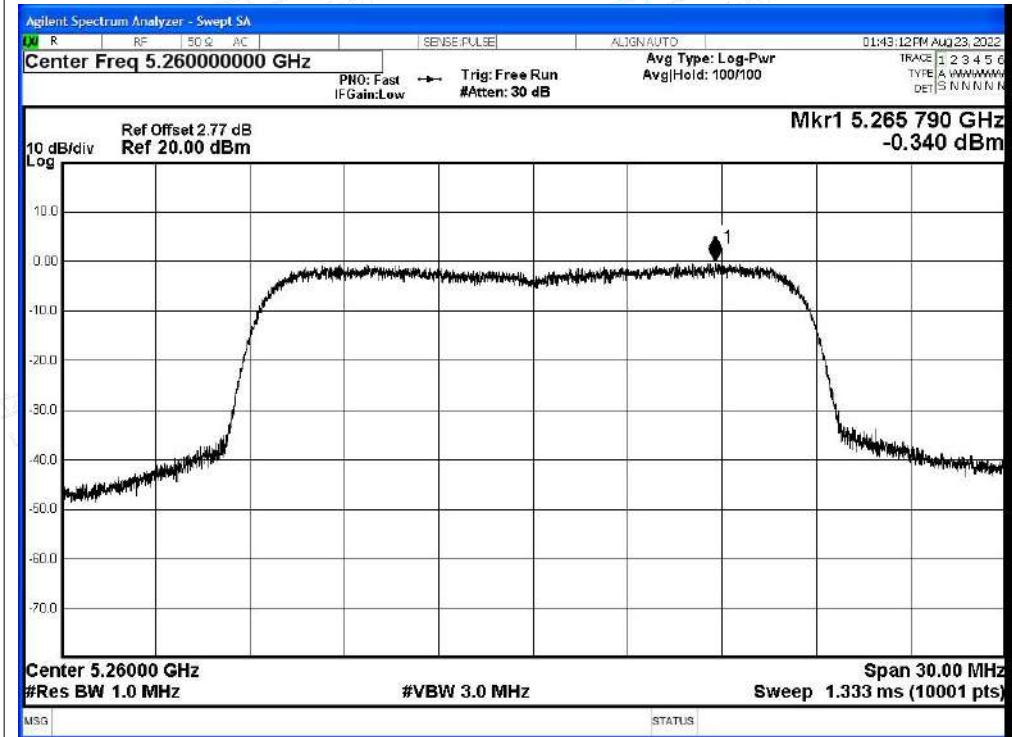
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Antenna Gain	EIRP PSD(dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-0.34	4.39	4.05	11	Pass
NVNT	a	5300	Ant1	-0.74	4.39	3.65	11	Pass
NVNT	a	5320	Ant1	-1.6	4.39	2.79	11	Pass
NVNT	n20	5260	Ant1	-2.76	4.39	1.63	11	Pass
NVNT	n20	5300	Ant1	-1.66	4.39	2.73	11	Pass
NVNT	n20	5320	Ant1	-0.91	4.39	3.48	11	Pass
NVNT	n40	5270	Ant1	-5.62	4.39	-1.23	11	Pass
NVNT	n40	5310	Ant1	-4.83	4.39	-0.44	11	Pass
NVNT	ac20	5260	Ant1	-1.59	4.39	2.8	11	Pass
NVNT	ac20	5300	Ant1	-1.63	4.39	2.76	11	Pass
NVNT	ac20	5320	Ant1	-1.15	4.39	3.24	11	Pass
NVNT	ac40	5270	Ant1	-5.6	4.39	-1.21	11	Pass
NVNT	ac40	5310	Ant1	-5.3	4.39	-0.91	11	Pass
NVNT	ac80	5290	Ant1	-7.04	4.39	-2.65	11	Pass



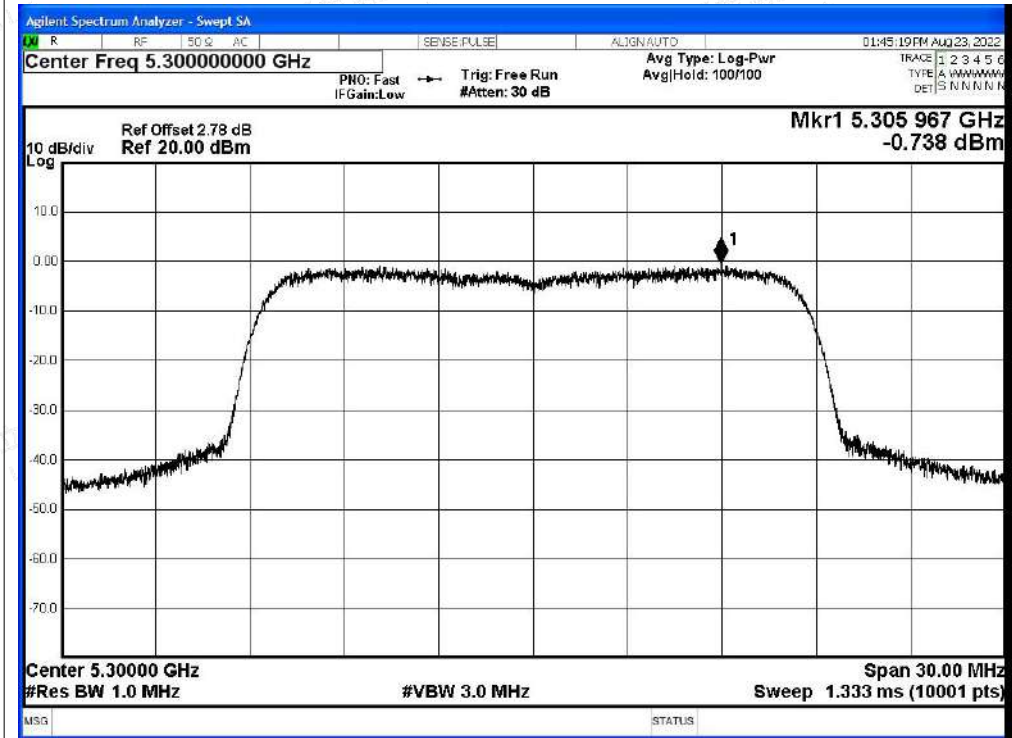


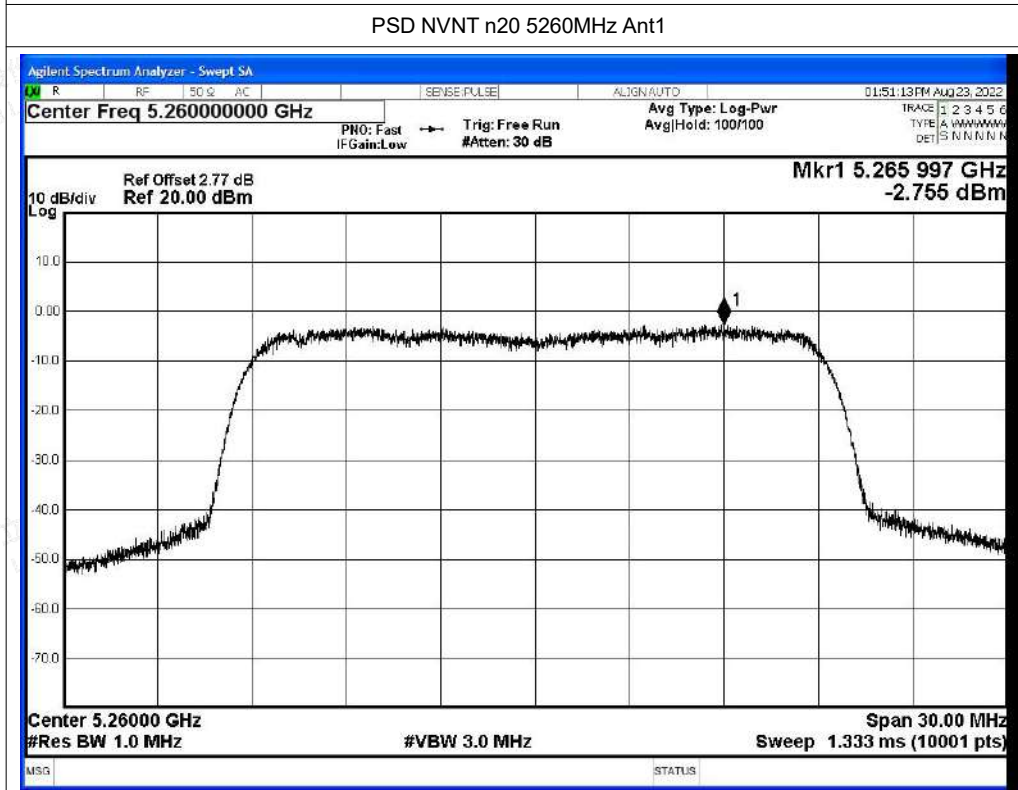
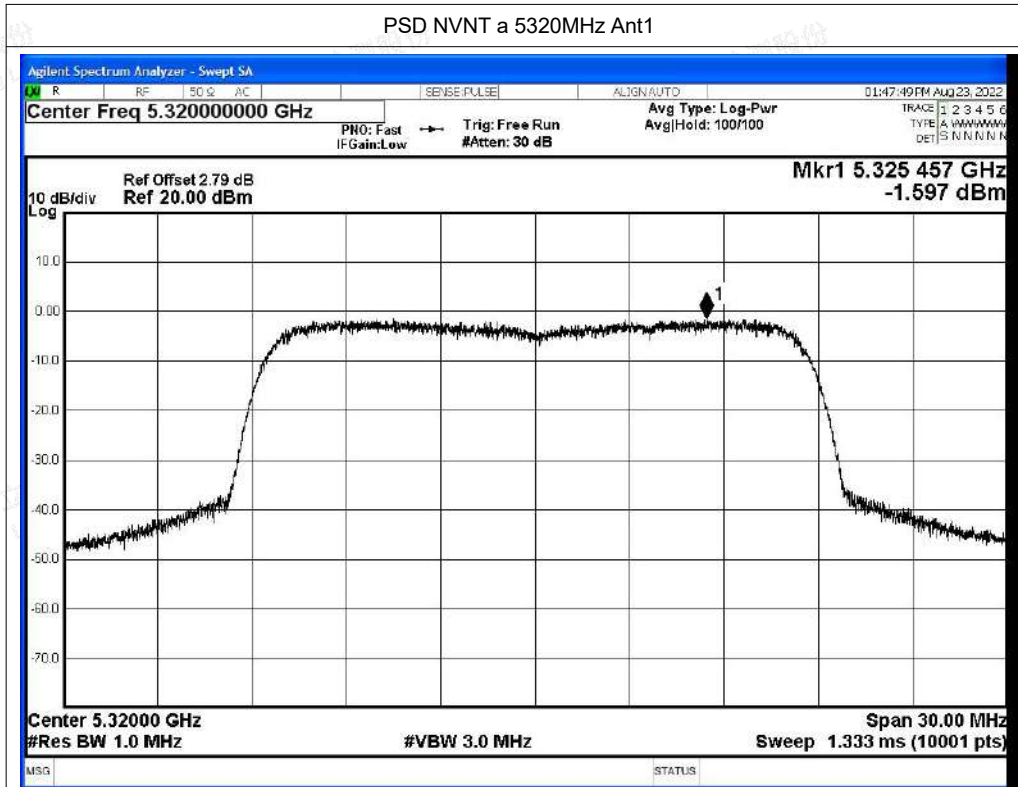
Test Graphs

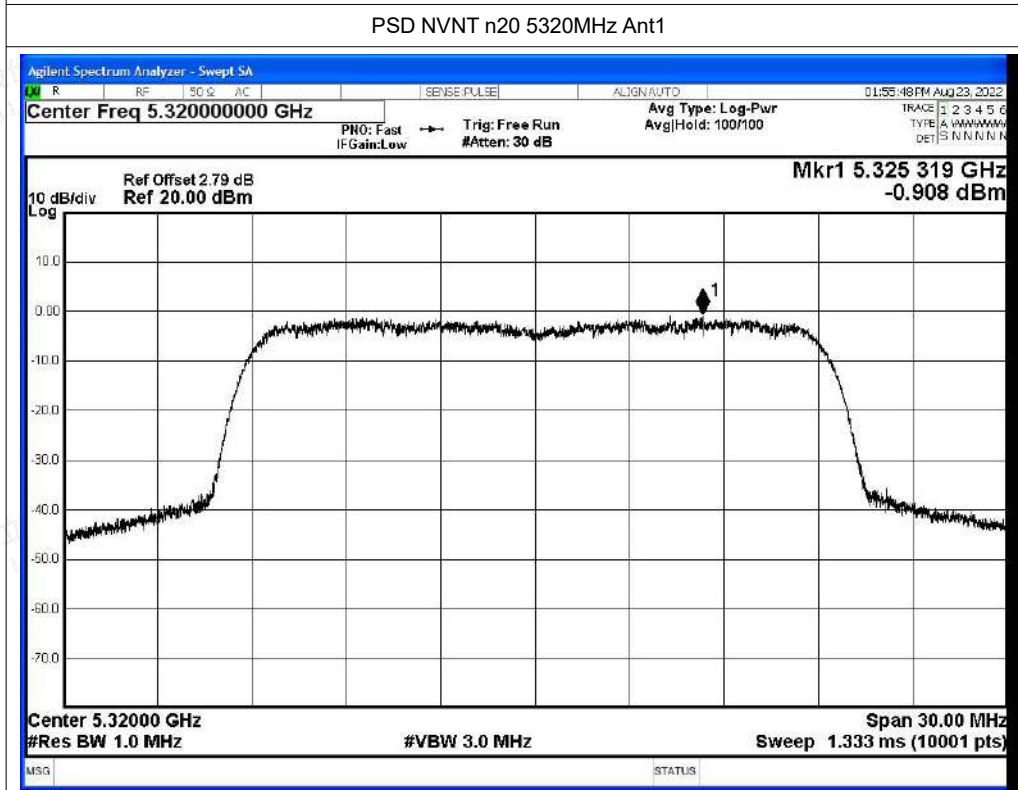
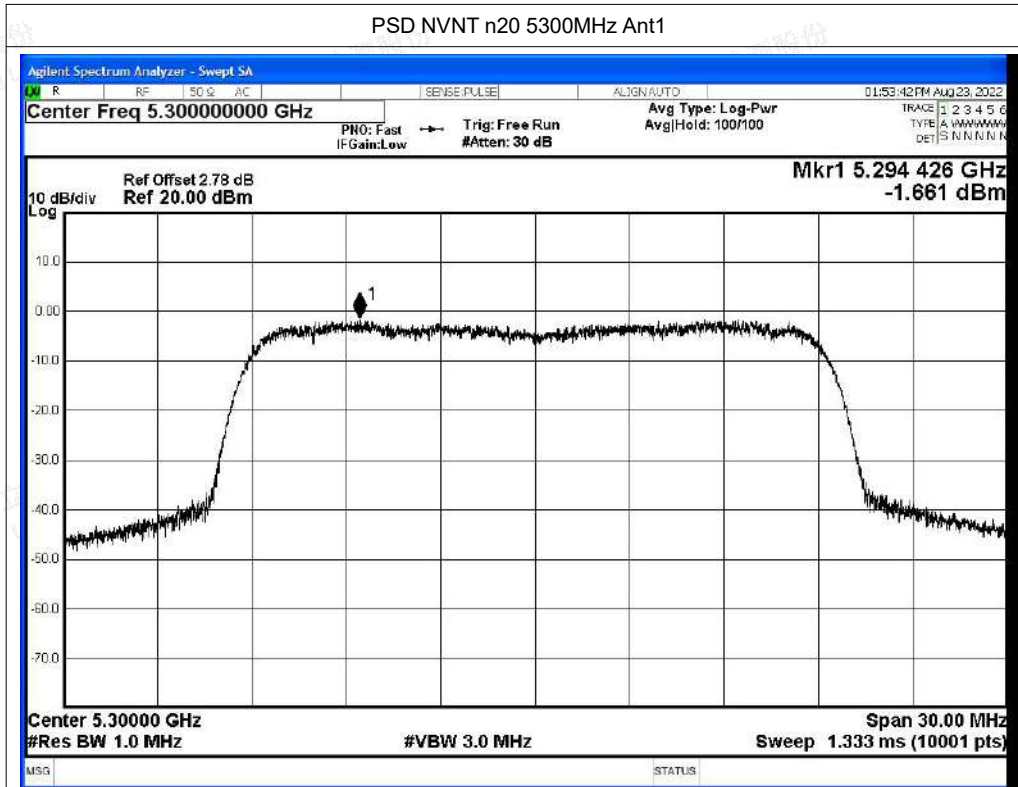
PSD NVNT a 5260MHz Ant1

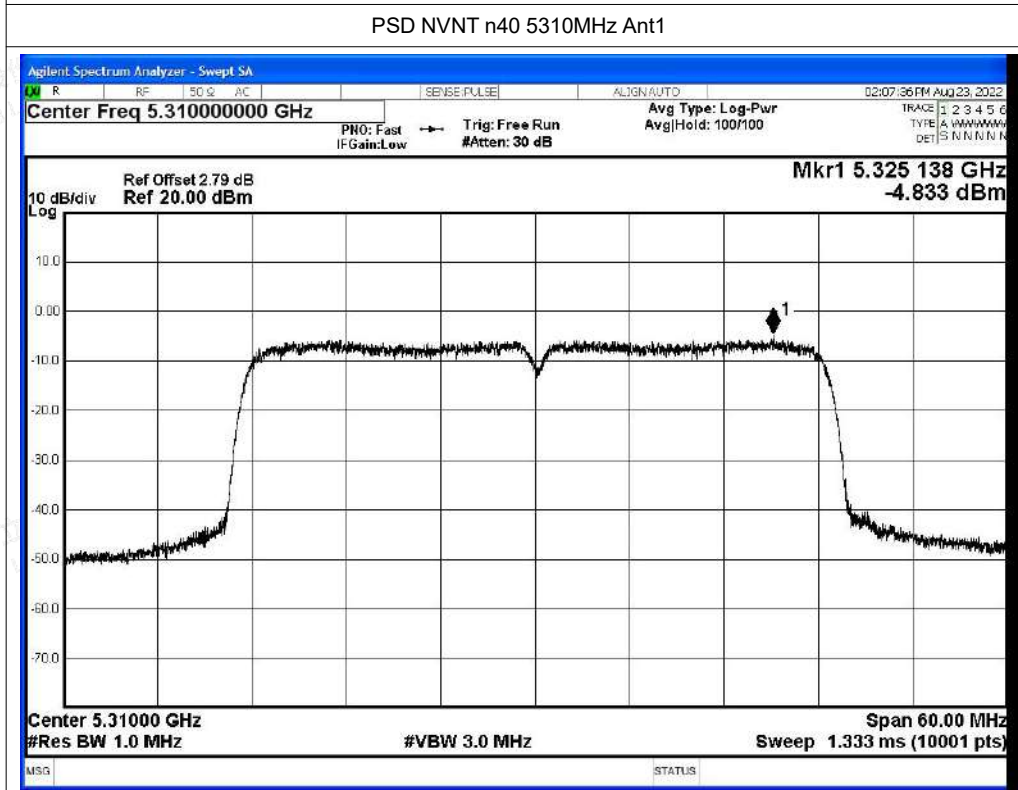
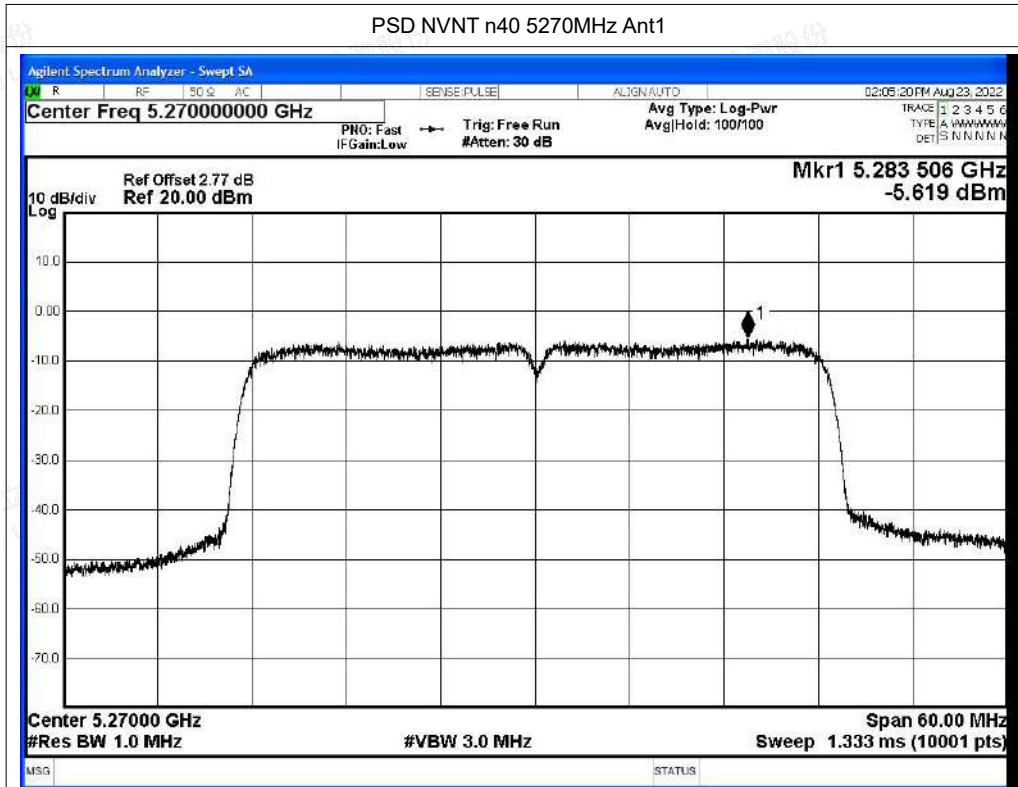


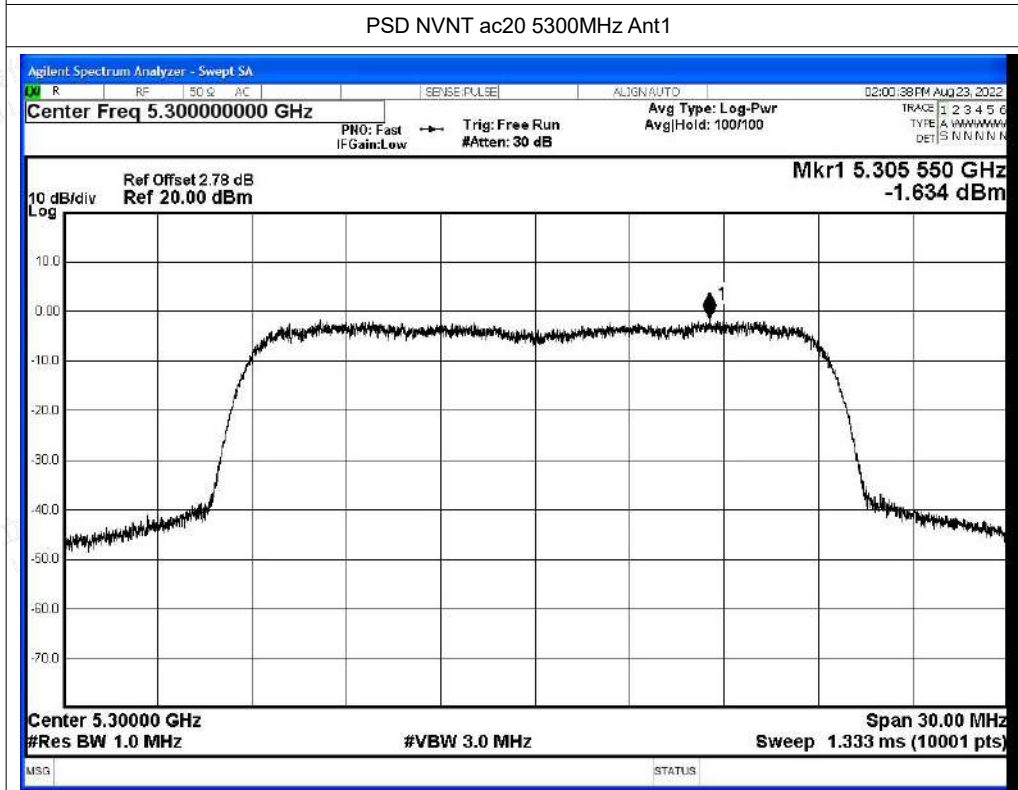
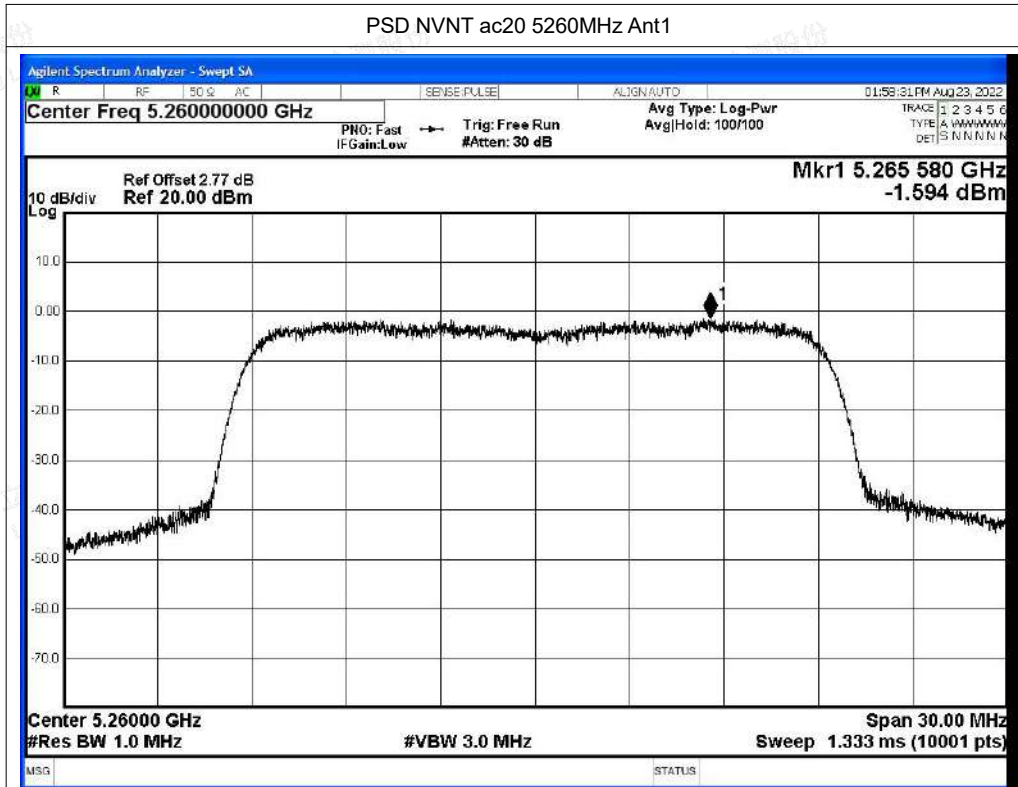
PSD NVNT a 5300MHz Ant1



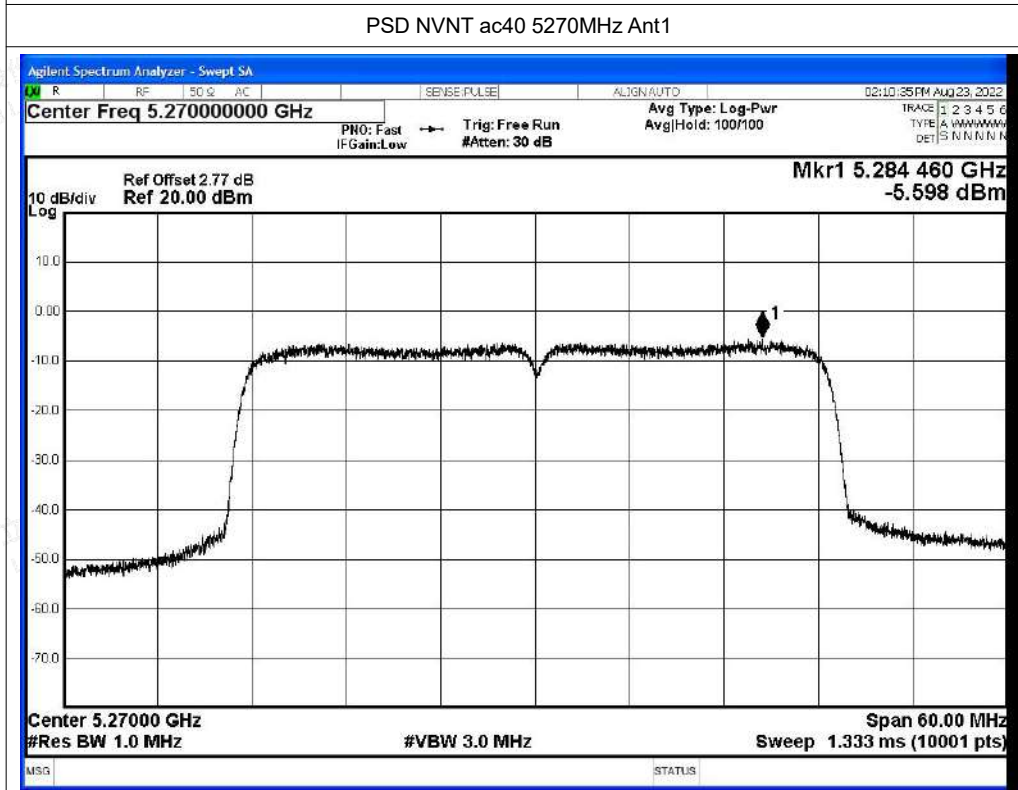
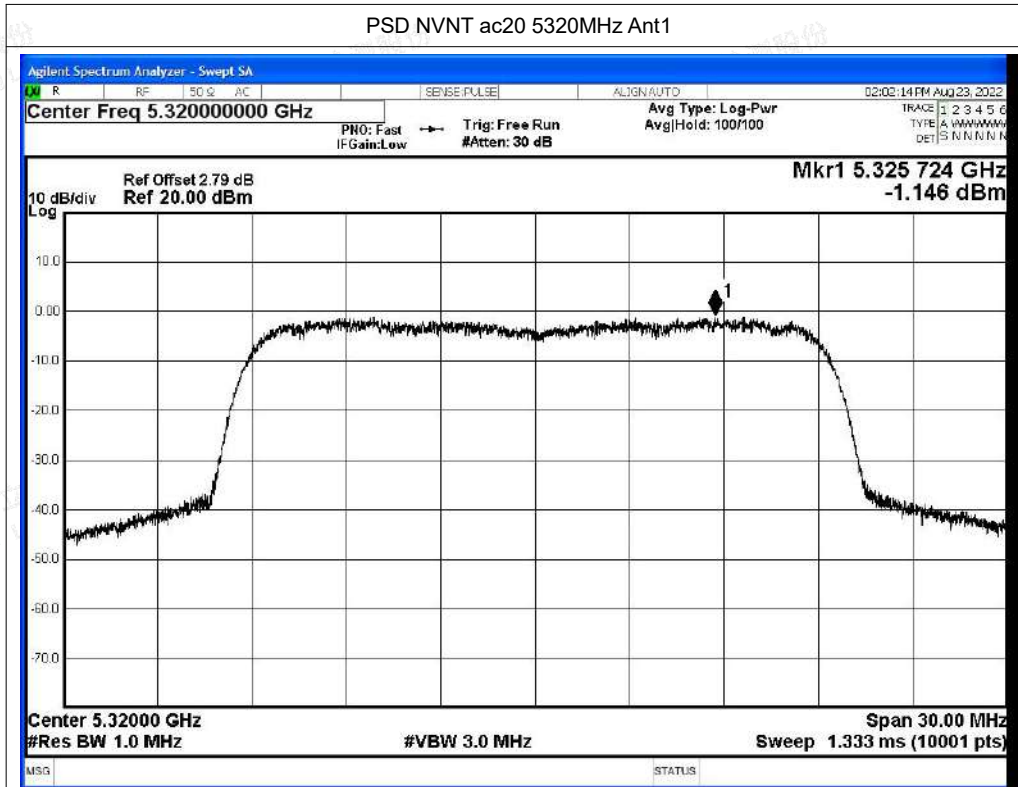


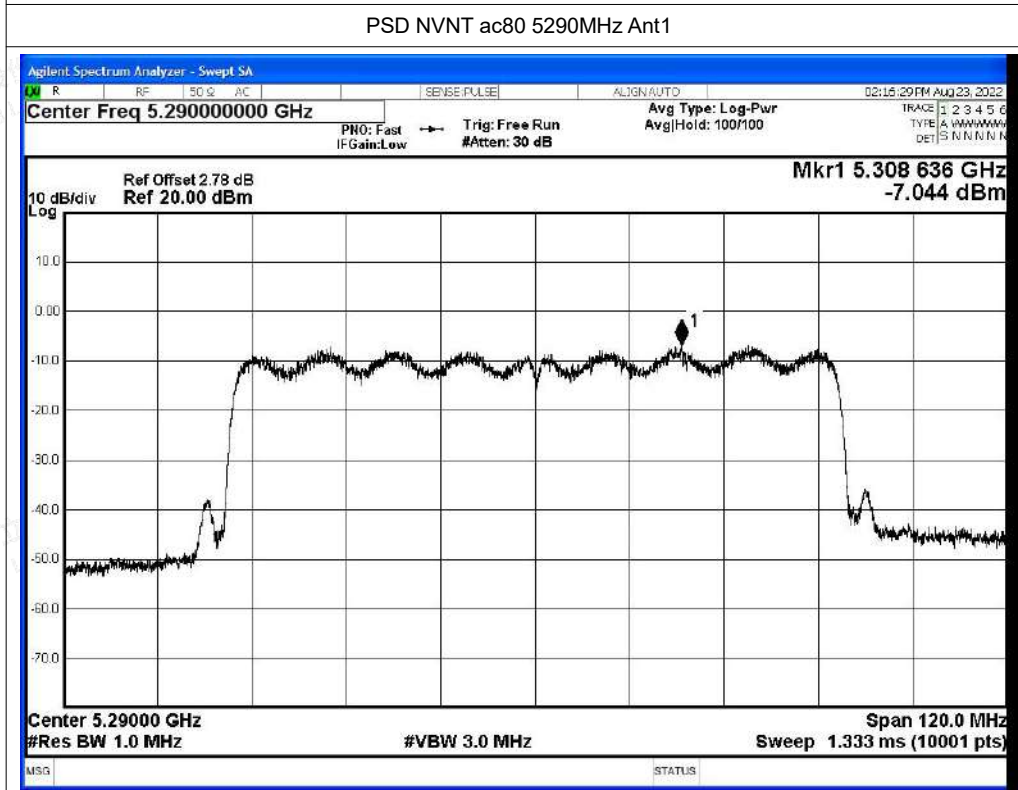
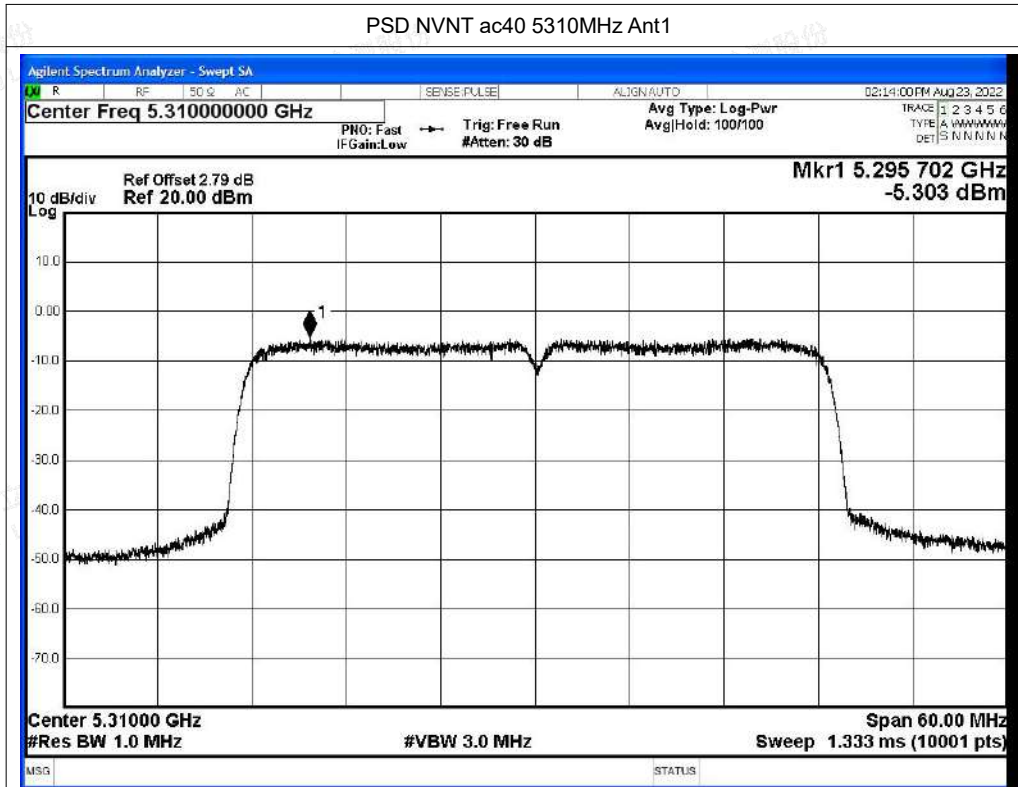














## C.5 Restrict Band

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	-51.02	4.39	48.60	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-60.78	4.39	38.84	Average	54	Pass
NVNT	a	5260	Ant1	5092.8	-45.45	4.39	54.17	Peak	68.2	Pass
NVNT	a	5260	Ant1	5105.28	-58.16	4.39	41.46	Average	54	Pass
NVNT	a	5260	Ant1	5150	-49.61	4.39	50.01	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-58.58	4.39	41.04	Average	54	Pass
NVNT	a	5320	Ant1	5350	-47.37	4.39	52.25	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-58.56	4.39	41.06	Average	54	Pass
NVNT	a	5320	Ant1	5404.4	-47.17	4.39	52.45	Peak	68.2	Pass
NVNT	a	5320	Ant1	5353.4	-58.43	4.39	41.19	Average	54	Pass
NVNT	a	5320	Ant1	5460	-49.82	4.39	49.80	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-59.65	4.39	39.97	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.68	4.39	48.94	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-60.92	4.39	38.70	Average	54	Pass
NVNT	n20	5260	Ant1	5107.62	-46.72	4.39	52.90	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5105.28	-58.48	4.39	41.14	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.15	4.39	52.47	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-58.87	4.39	40.75	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-46.04	4.39	53.58	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-57.07	4.39	42.55	Average	54	Pass
NVNT	n20	5320	Ant1	5350.6	-42.67	4.39	56.95	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5352.8	-56.92	4.39	42.70	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-49.09	4.39	50.53	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-59.09	4.39	40.53	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-50.36	4.39	49.26	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-60.58	4.39	39.04	Average	54	Pass
NVNT	n40	5270	Ant1	5081.58	-45.59	4.39	54.03	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5121.27	-58.36	4.39	41.26	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-49.52	4.39	50.10	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-58.87	4.39	40.75	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-43.39	4.39	56.23	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-47.54	4.39	52.08	Average	54	Pass
NVNT	n40	5310	Ant1	5351.2	-42.03	4.39	57.59	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5351	-44.87	4.39	54.75	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-48.81	4.39	50.81	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-53.65	4.39	45.97	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-51.94	4.39	47.68	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-61.01	4.39	38.61	Average	54	Pass



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NVNT	ac20	5260	Ant1	5106.84	-46.4	4.39	53.22	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5106.06	-58.39	4.39	41.23	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-50.03	4.39	49.59	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-58.72	4.39	40.90	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-49.15	4.39	50.47	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-58.09	4.39	41.53	Average	54	Pass
NVNT	ac20	5320	Ant1	5386.4	-46.69	4.39	52.93	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5352.6	-57.83	4.39	41.79	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-50.71	4.39	48.91	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-59.41	4.39	40.21	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-50.34	4.39	49.28	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-60.59	4.39	39.03	Average	54	Pass
NVNT	ac40	5270	Ant1	5028.12	-46.06	4.39	53.56	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5098.59	-58.3	4.39	41.32	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-48.18	4.39	51.44	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-58.79	4.39	40.83	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-38.68	4.39	60.94	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-50.55	4.39	49.07	Average	54	Pass
NVNT	ac40	5310	Ant1	5352.2	-37.64	4.39	61.98	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.2	-50.49	4.39	49.13	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-49.81	4.39	49.81	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-59.33	4.39	40.29	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-50.49	4.39	49.13	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-60.39	4.39	39.23	Average	54	Pass
NVNT	ac80	5290	Ant1	5101.17	-46.54	4.39	53.08	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5111.61	-58.02	4.39	41.60	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-48.71	4.39	50.91	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-58.16	4.39	41.46	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-32.29	4.39	67.33	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-45.55	4.39	54.07	Average	54	Pass
NVNT	ac80	5290	Ant1	5353	-31.98	4.39	67.64	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5352.75	-45.36	4.39	54.26	Average	54	Pass
NVNT	ac80	5290	Ant1	5460	-50.24	4.39	49.38	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-59.04	4.39	40.58	Average	54	Pass



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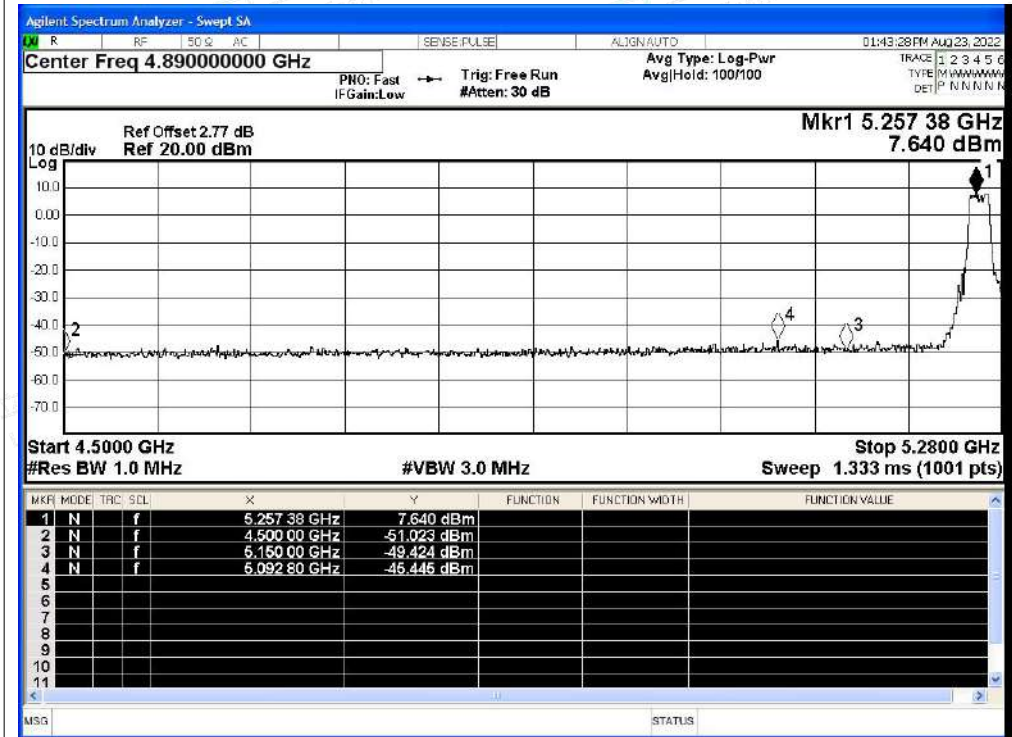
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

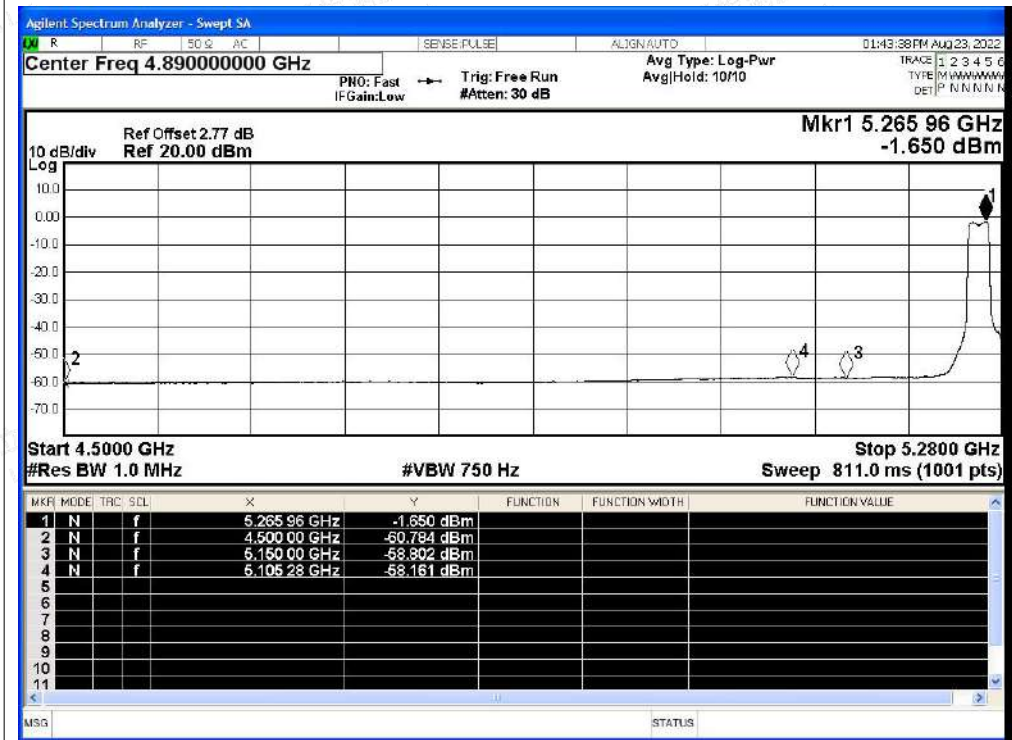


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average

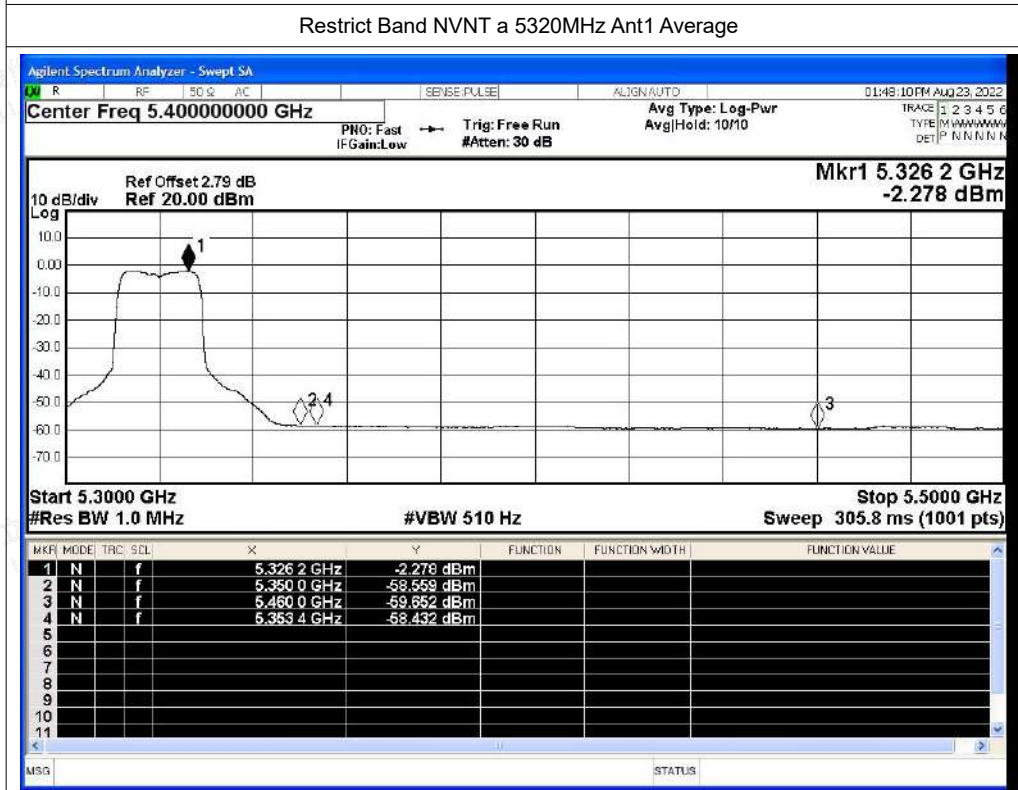
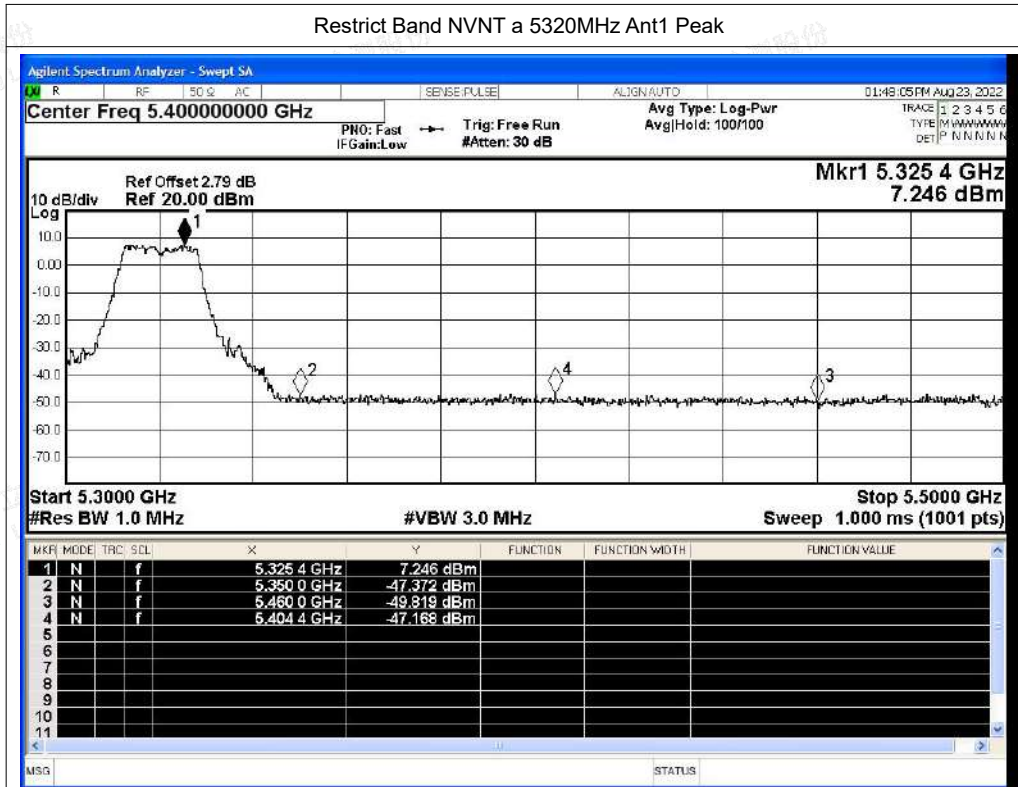


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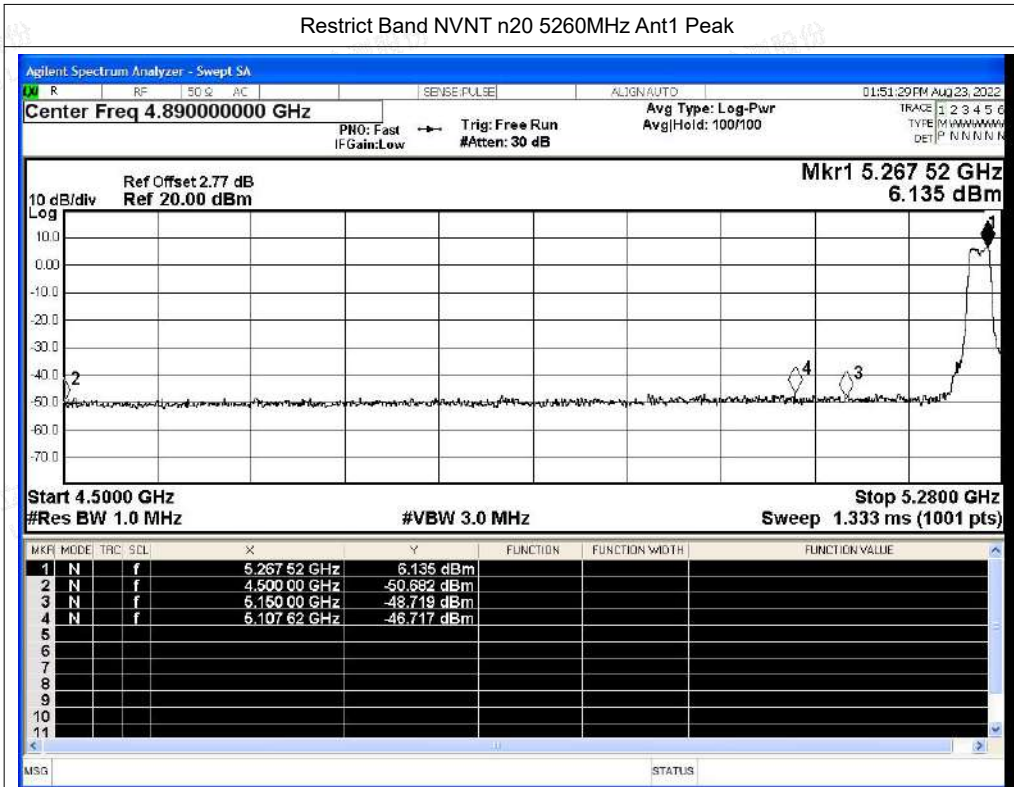
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

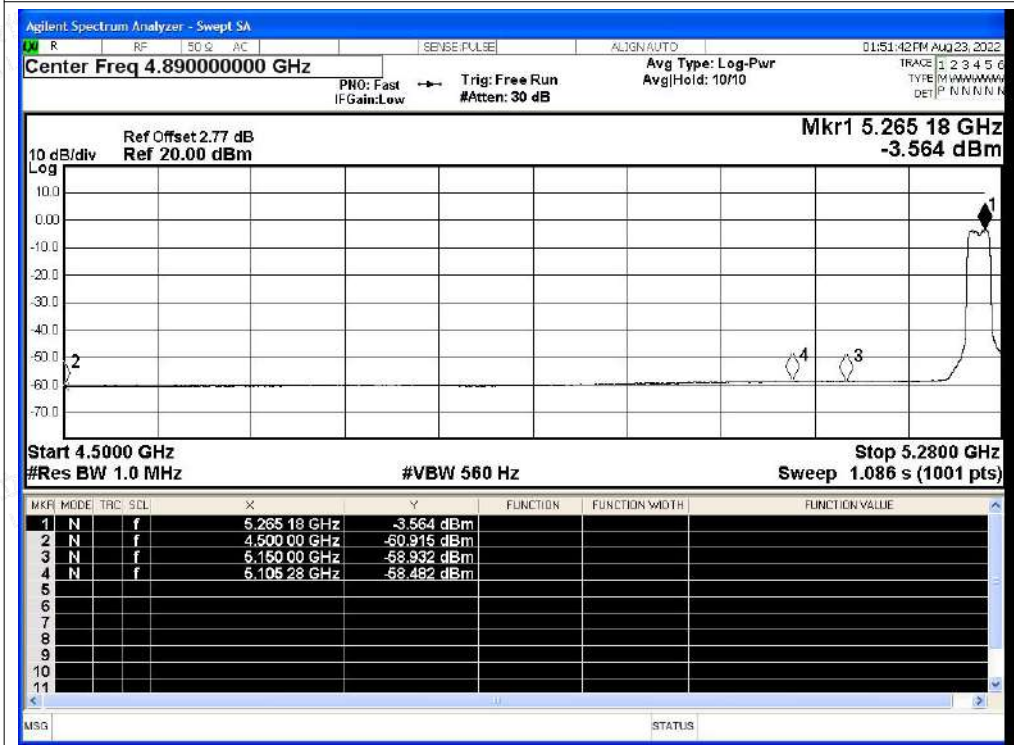
Scan code to check authenticity



Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



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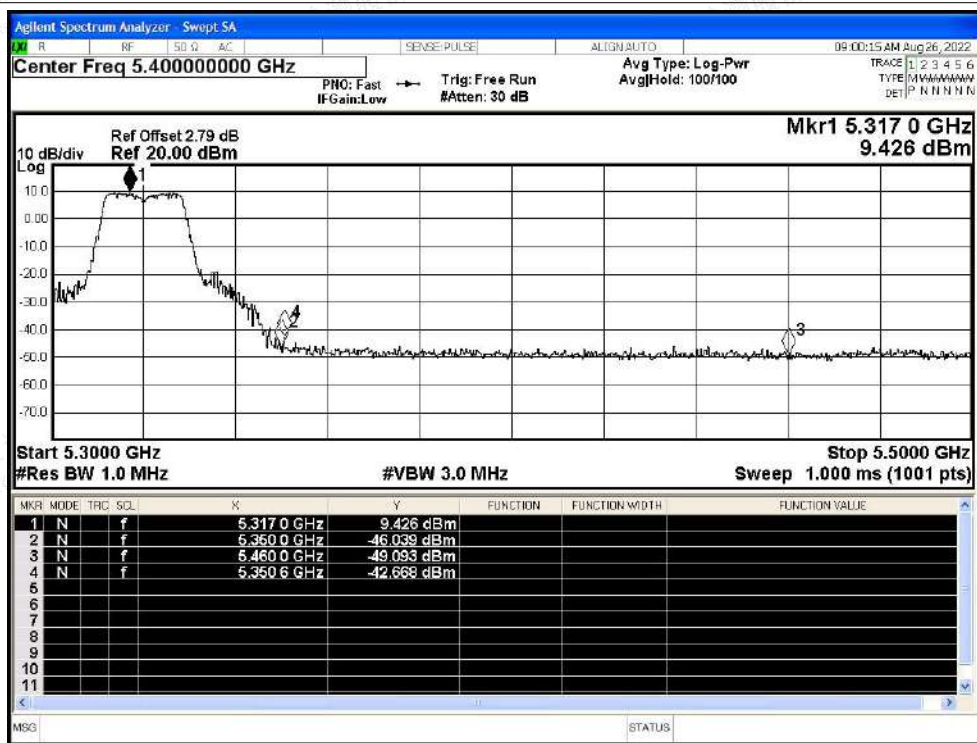
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

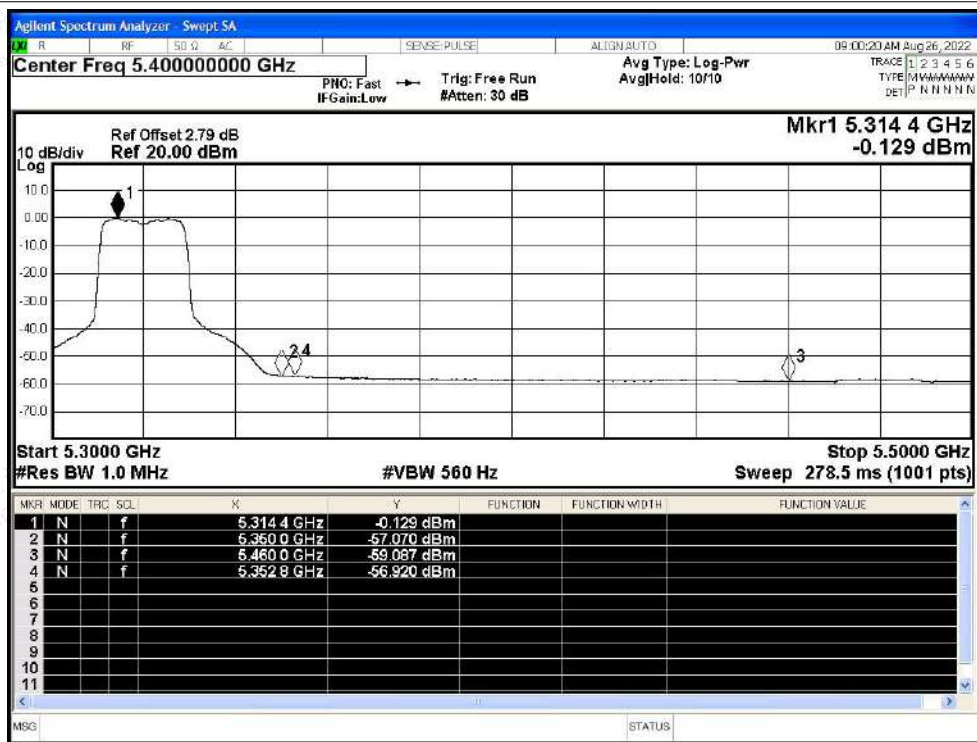
Scan code to check authenticity



Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average



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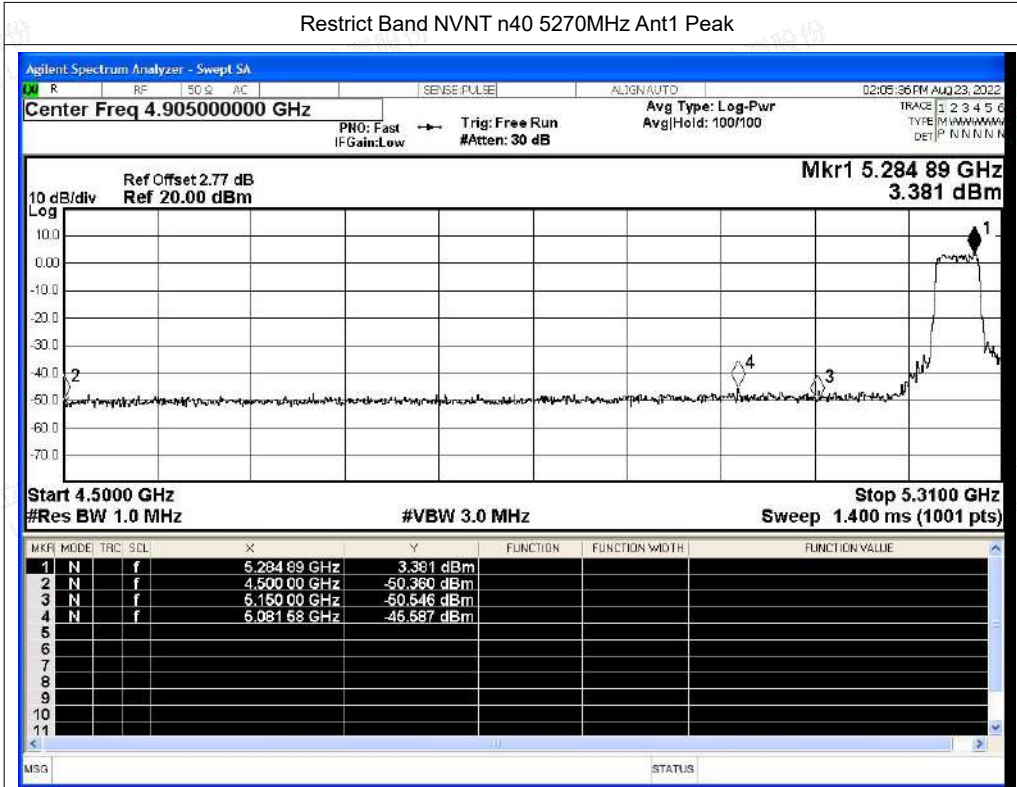
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

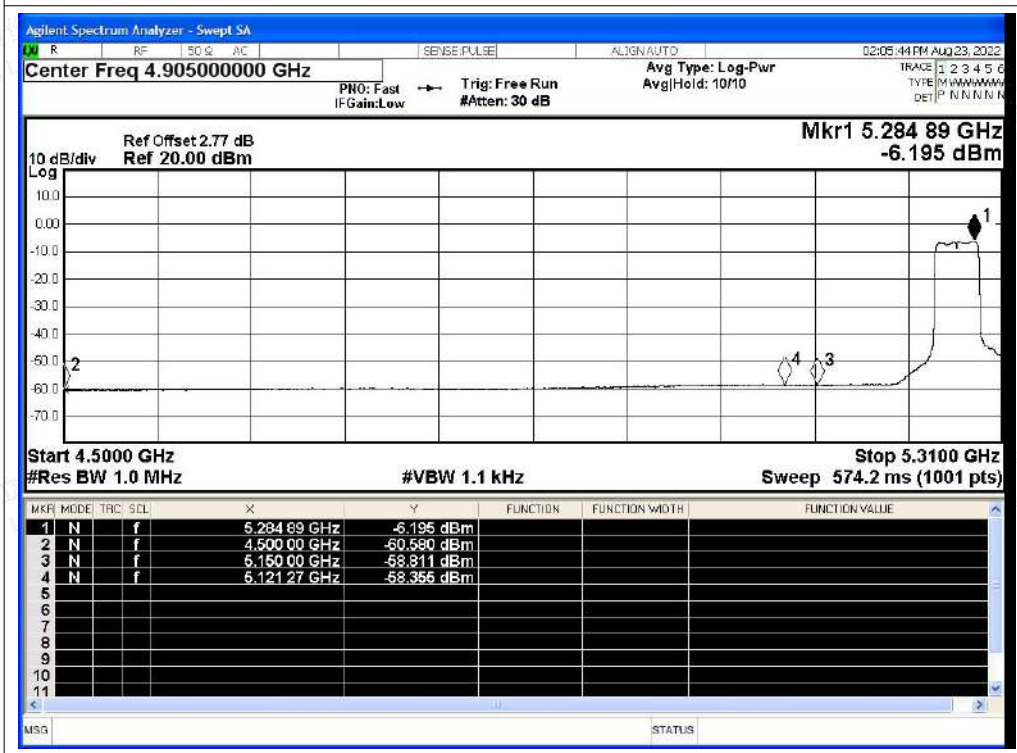




Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

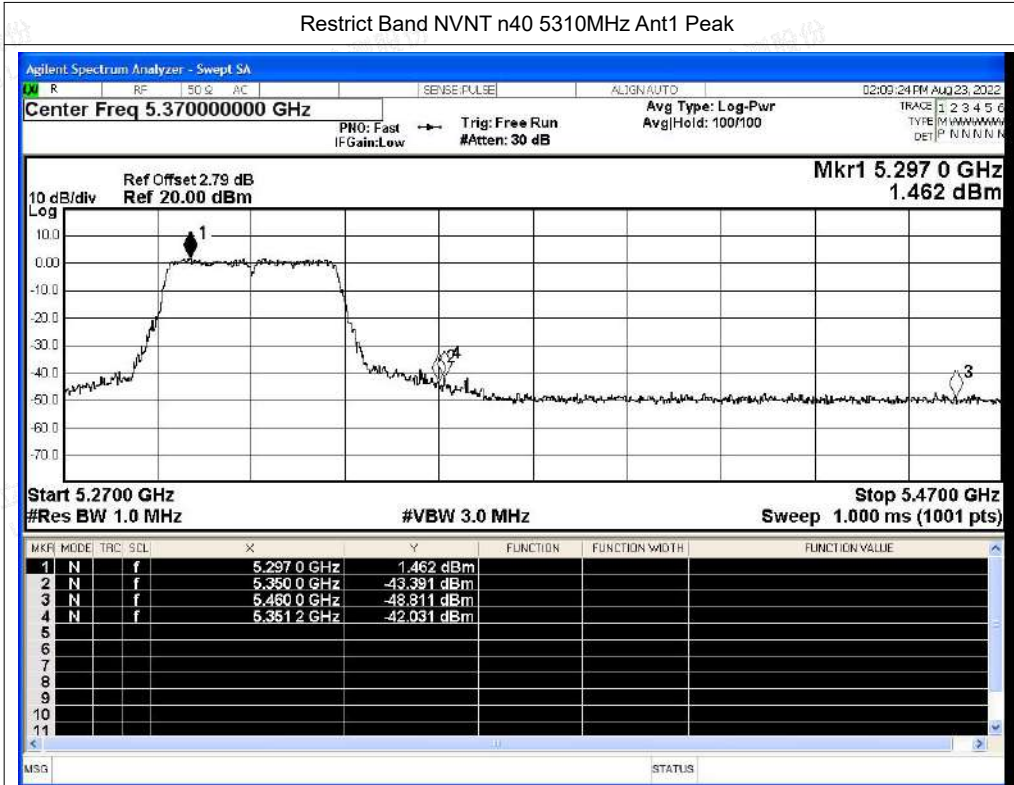
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

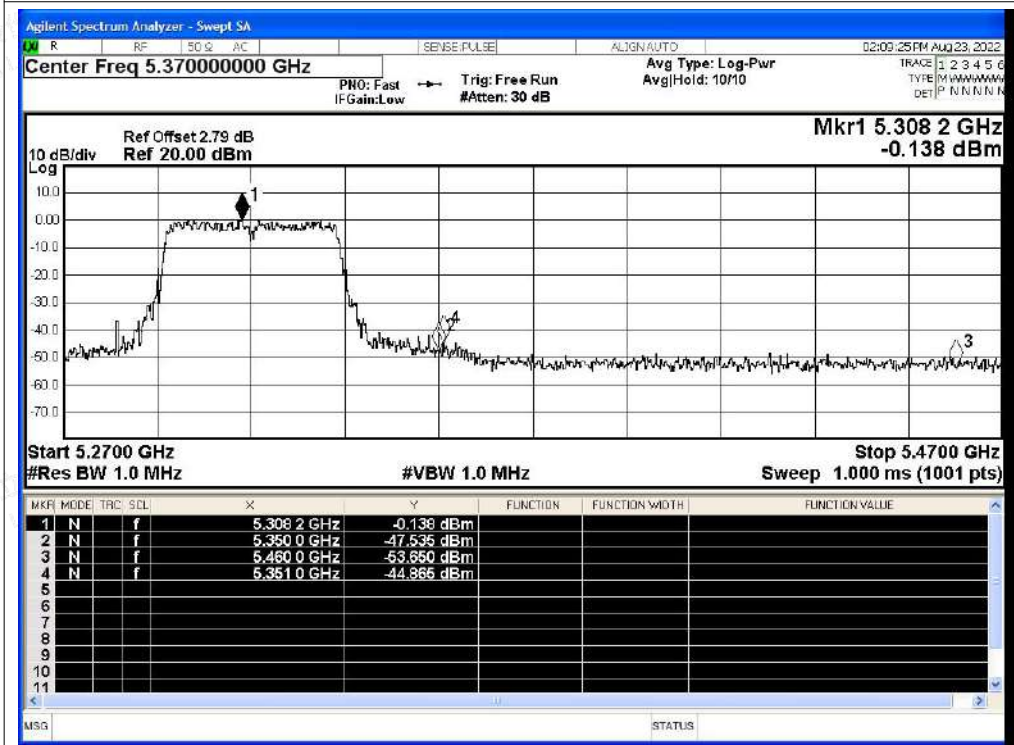
Scan code to check authenticity



Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

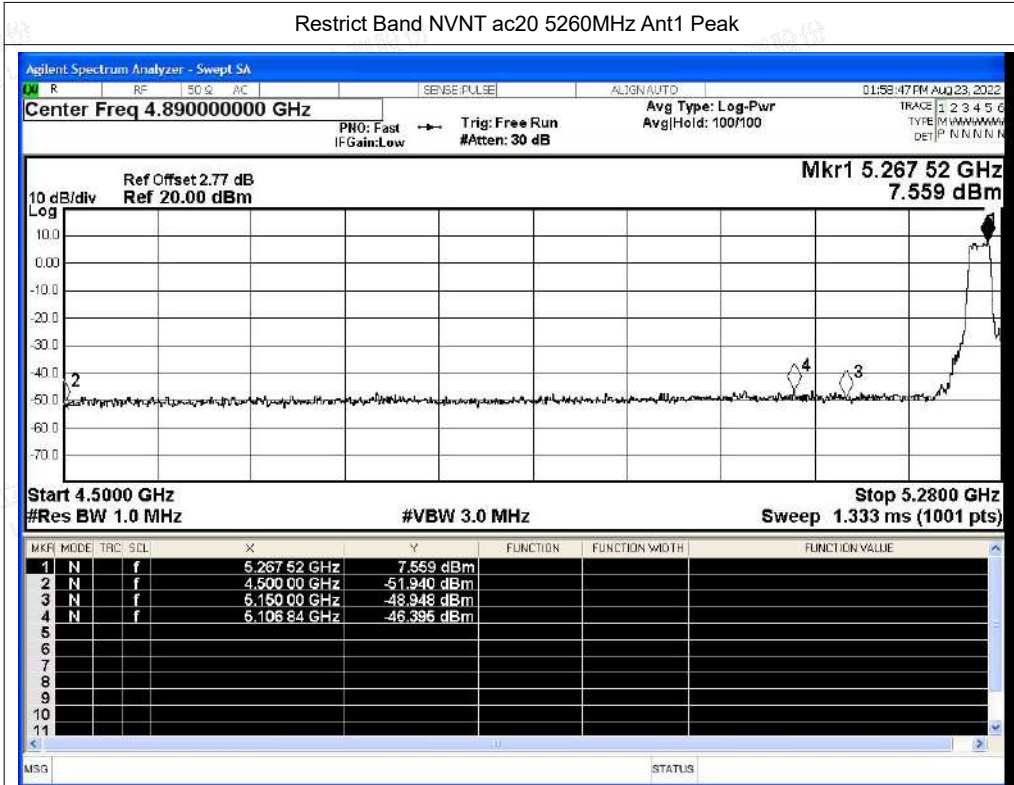
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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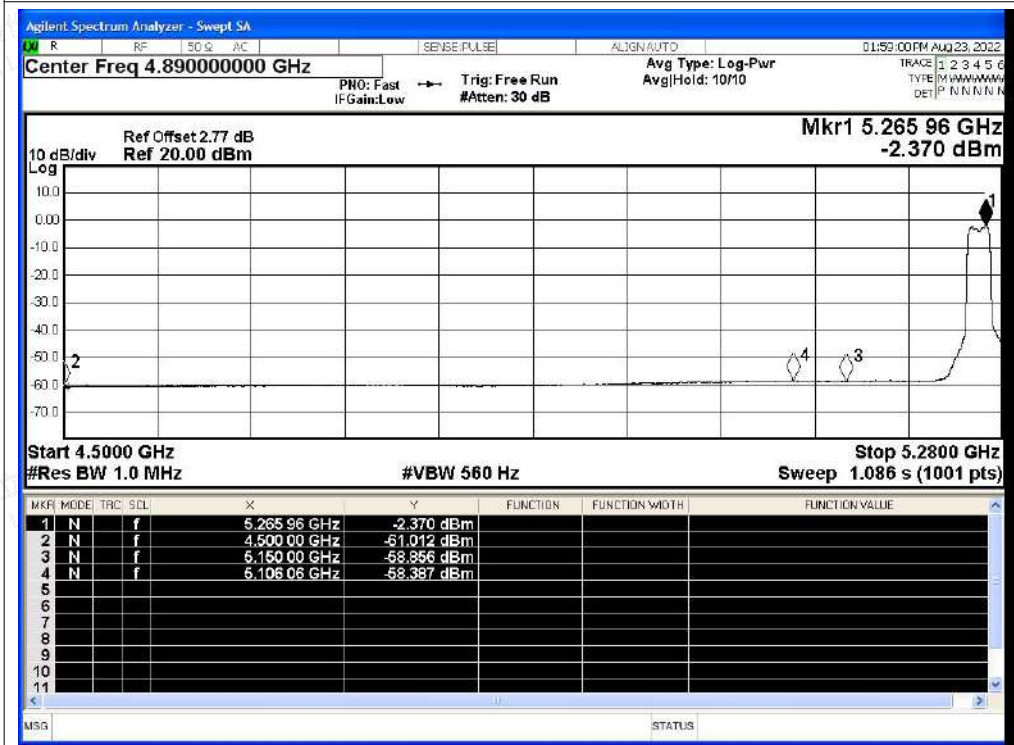
Scan code to check authenticity



Restrict Band NVNT ac20 5260MHz Ant1 Peak



Restrict Band NVNT ac20 5260MHz Ant1 Average



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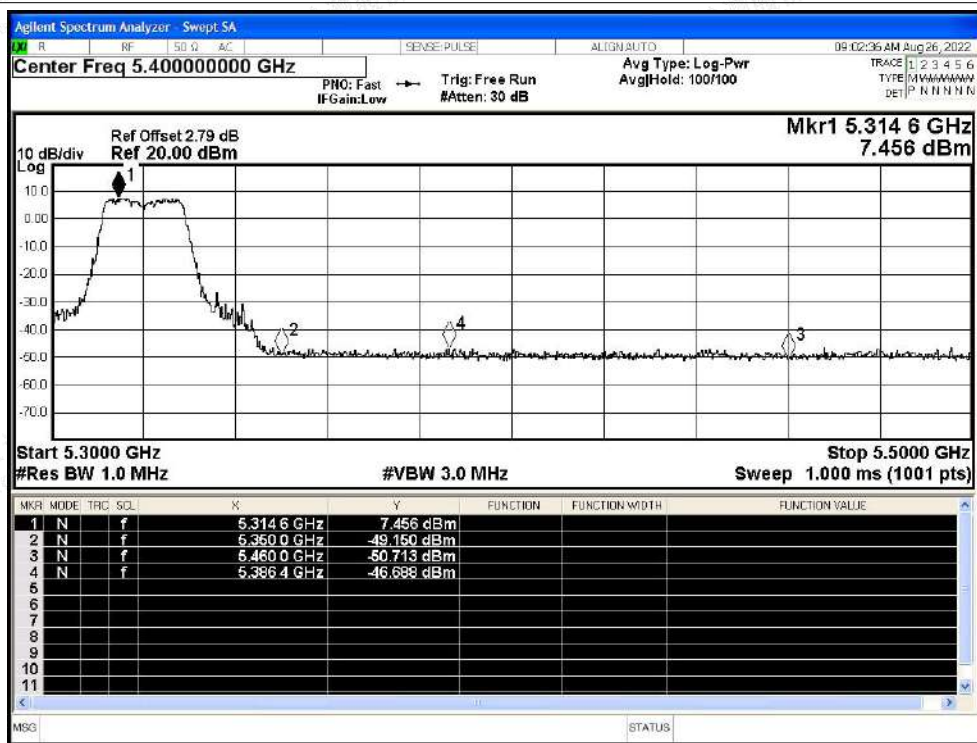
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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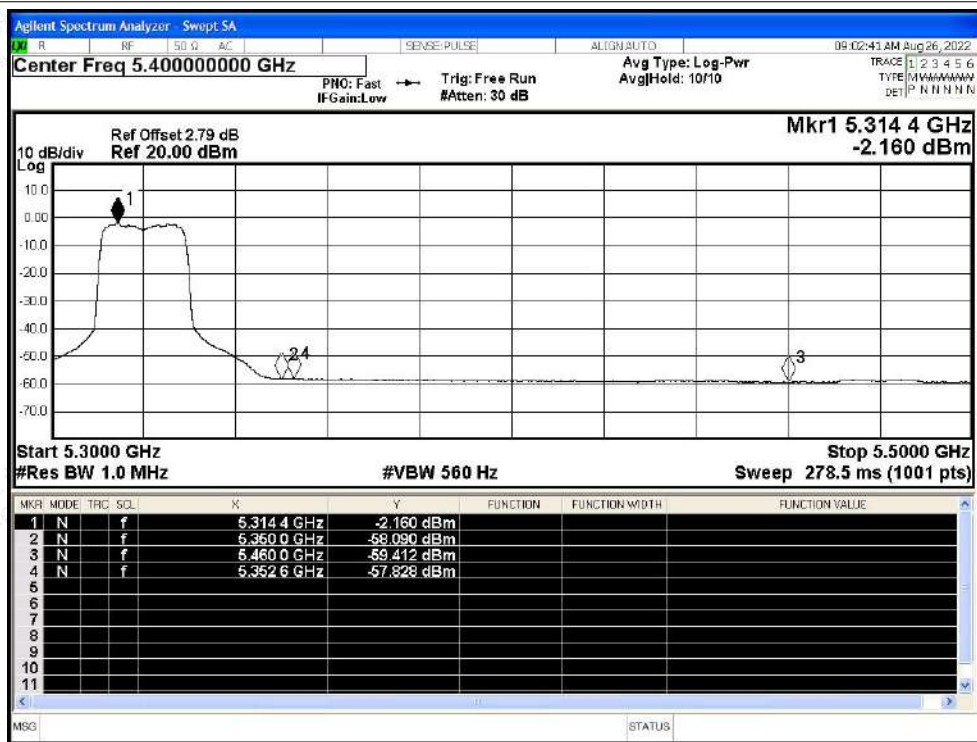
Scan code to check authenticity



Restrict Band NVNT ac20 5320MHz Ant1 Peak



Restrict Band NVNT ac20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

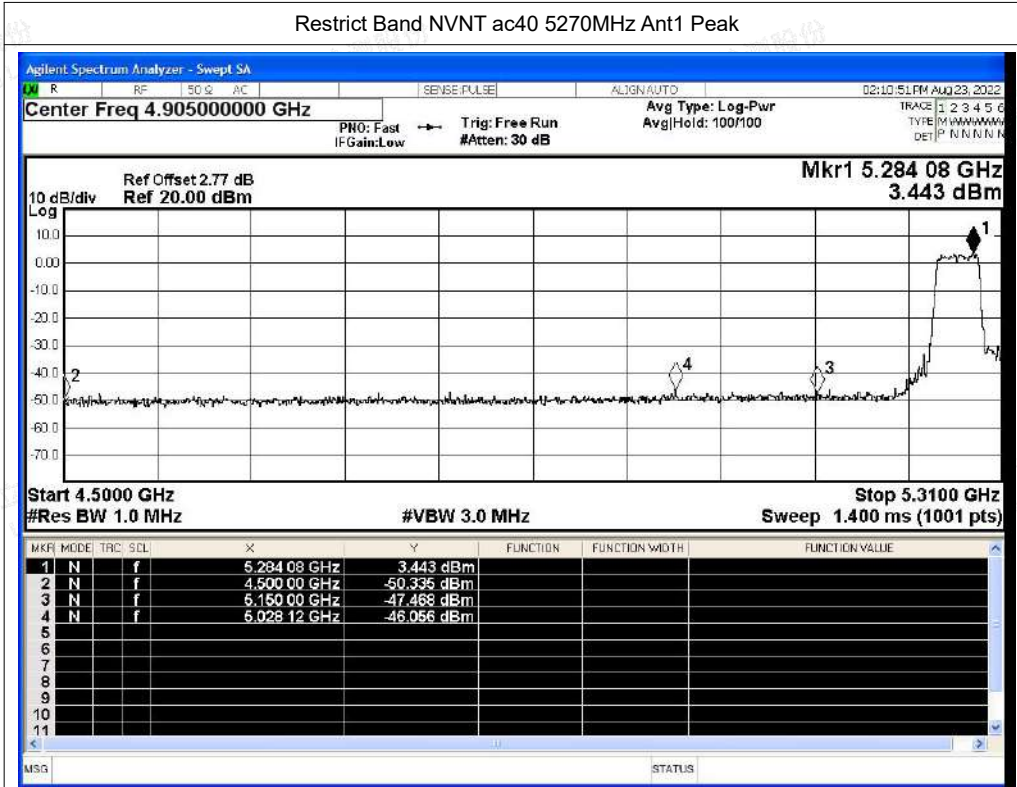
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

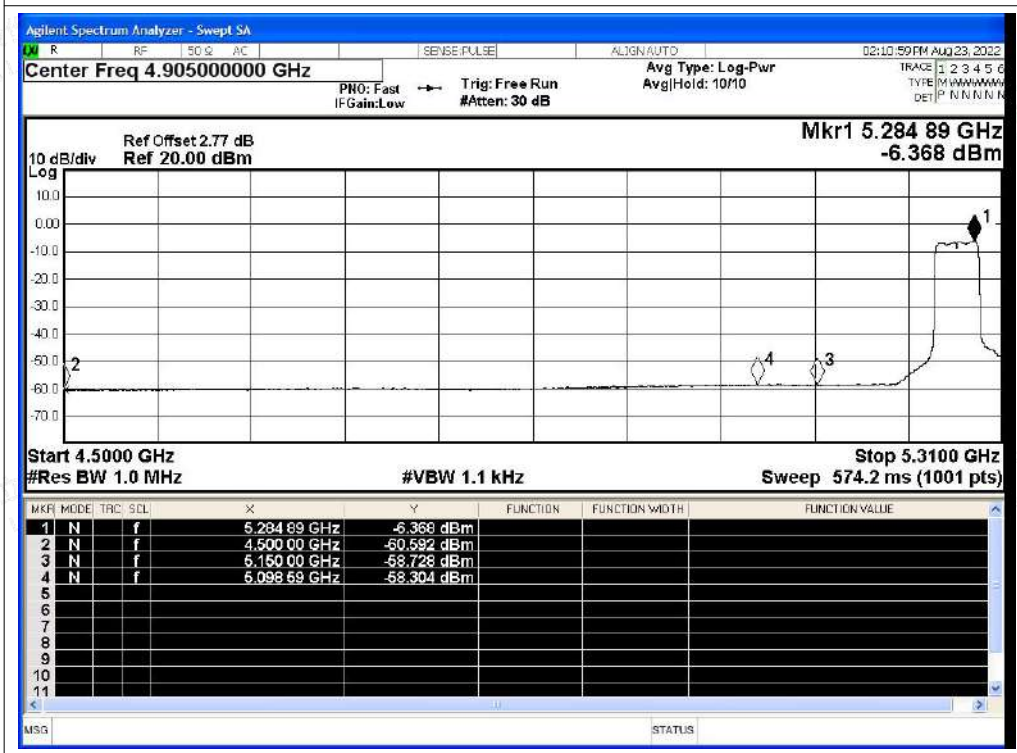
Scan code to check authenticity



Restrict Band NVNT ac40 5270MHz Ant1 Peak



Restrict Band NVNT ac40 5270MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

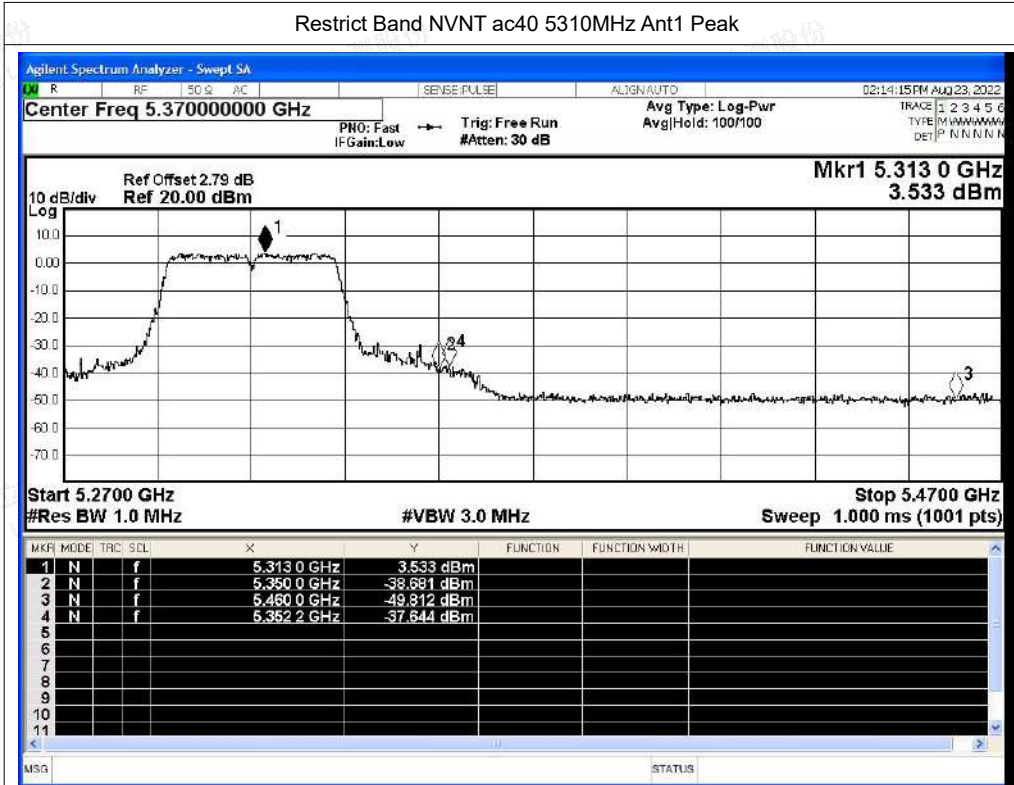
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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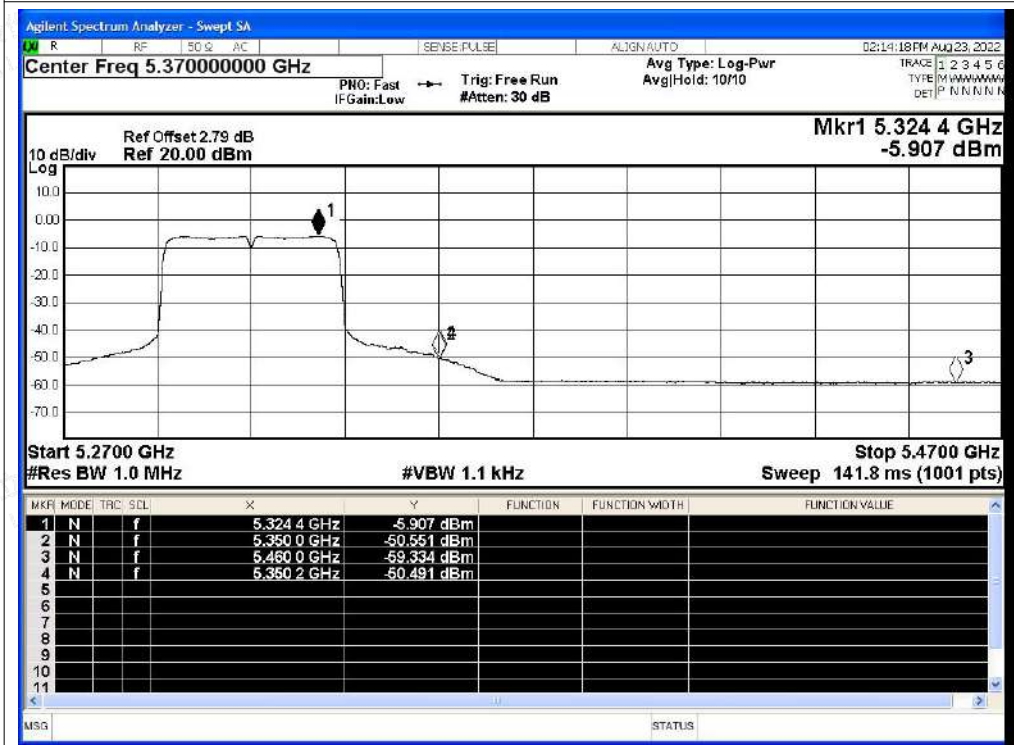
Scan code to check authenticity



Restrict Band NVNT ac40 5310MHz Ant1 Peak



Restrict Band NVNT ac40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

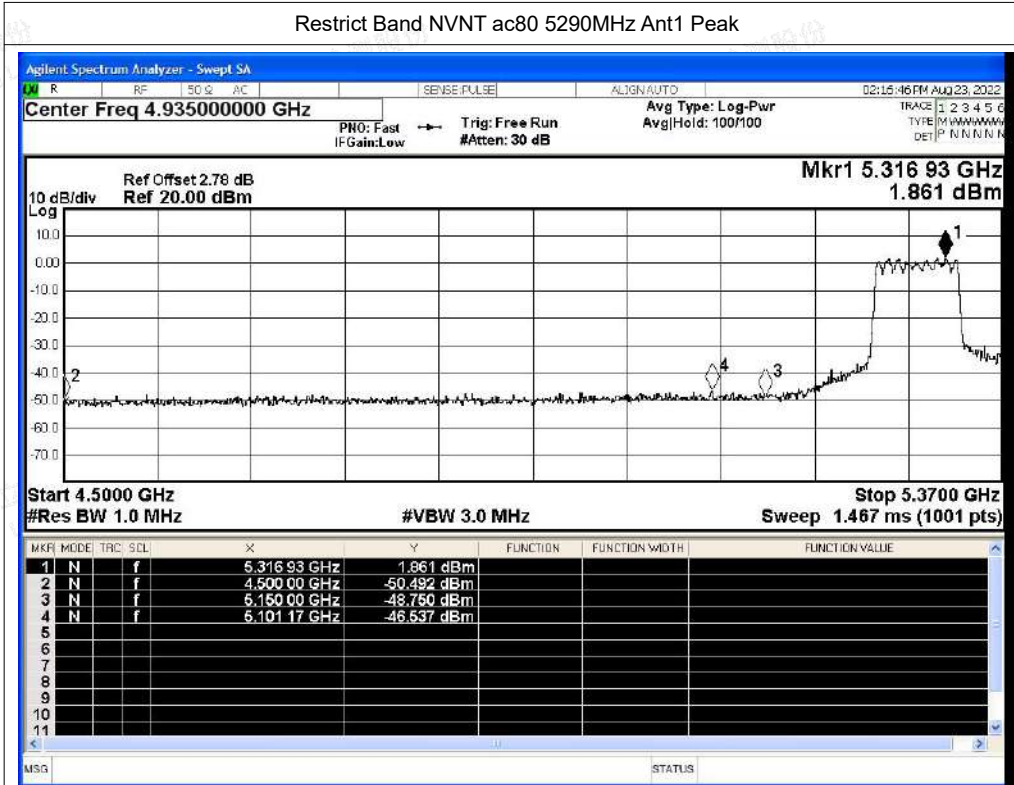
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

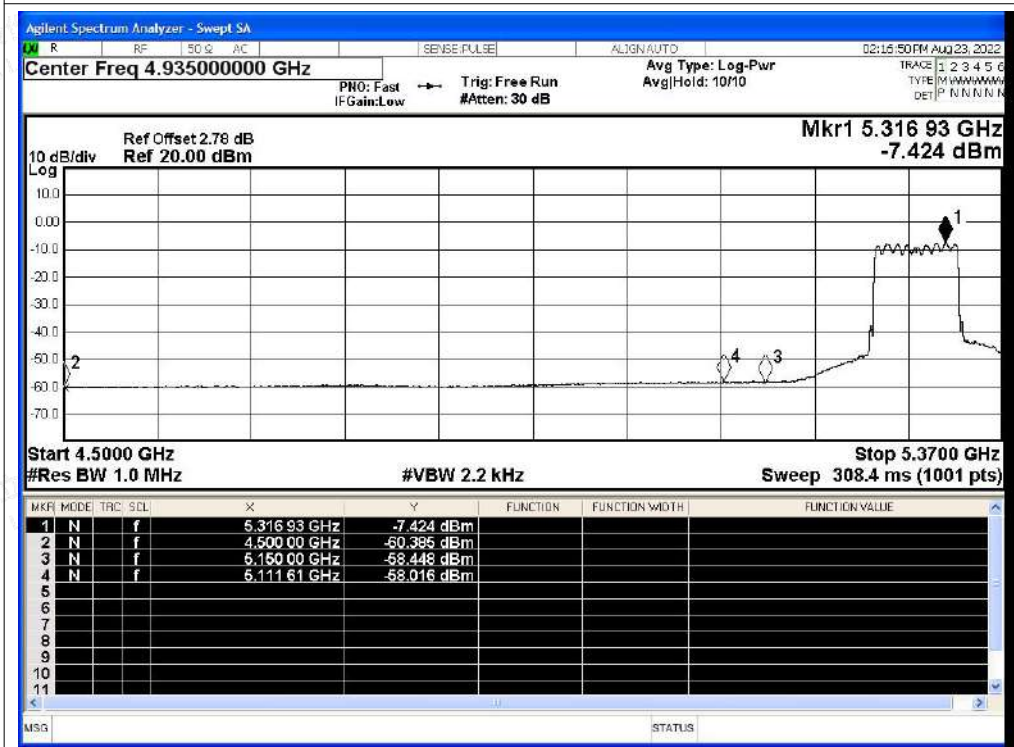
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

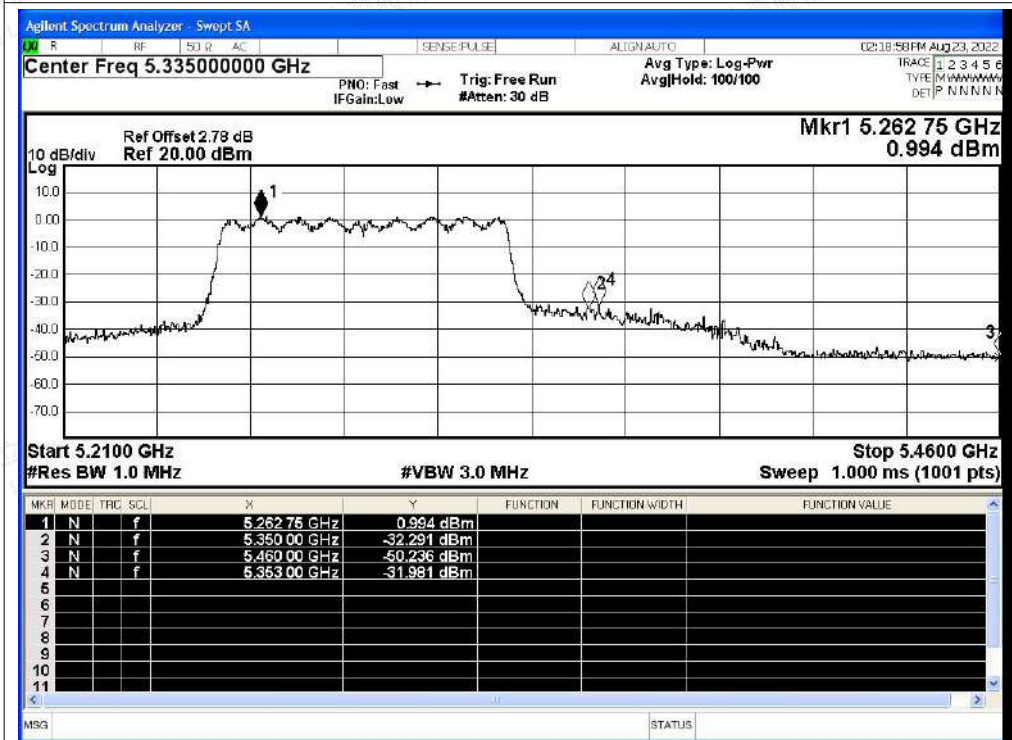
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

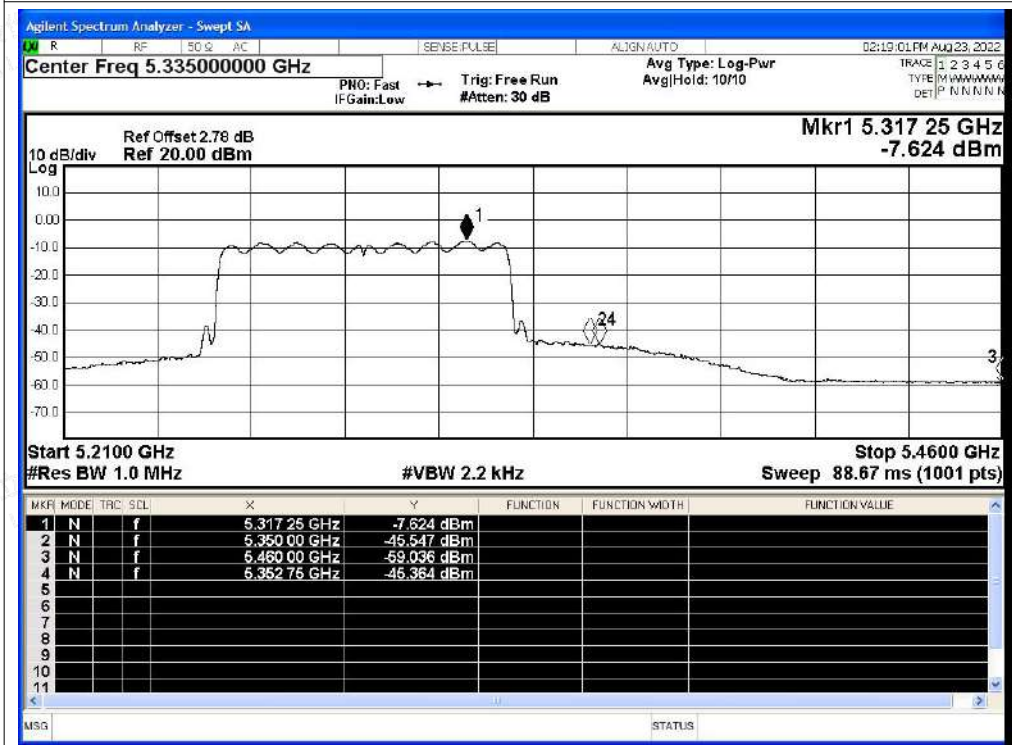
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average



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### C.6 Frequency Stability

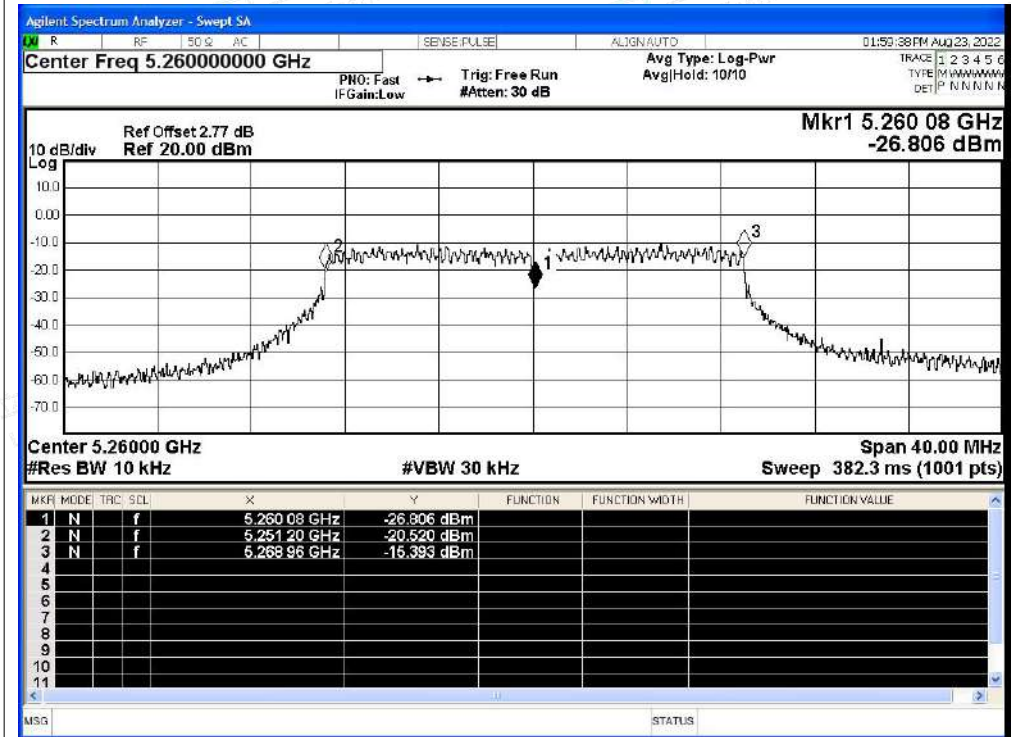
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5260.08	80000	15.21	25	Pass
NVNT	ac20	5300	Ant1	5300.1	100000	18.87	25	Pass
NVNT	ac20	5320	Ant1	5320.08	80000	15.04	25	Pass
NVNT	ac40	5270	Ant1	5270.08	80000	15.18	25	Pass
NVNT	ac40	5310	Ant1	5310.12	120000	22.6	25	Pass
NVNT	ac80	5290	Ant1	5290.08	80000	15.12	25	Pass



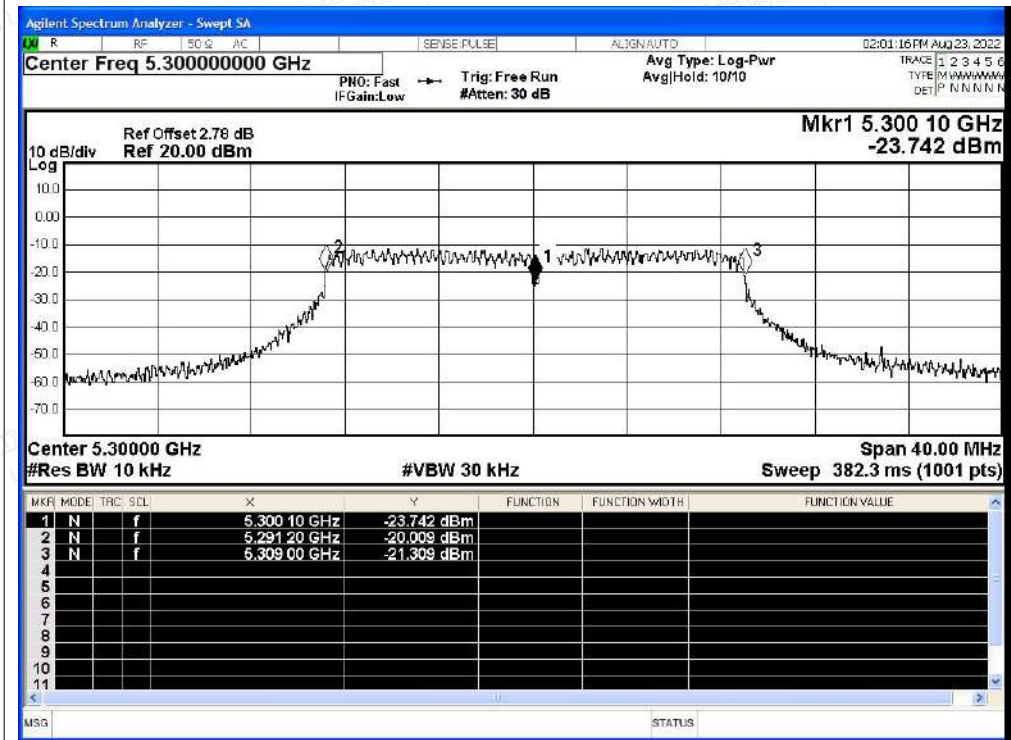


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant1



Freq. Stability NVNT ac20 5300MHz Ant1

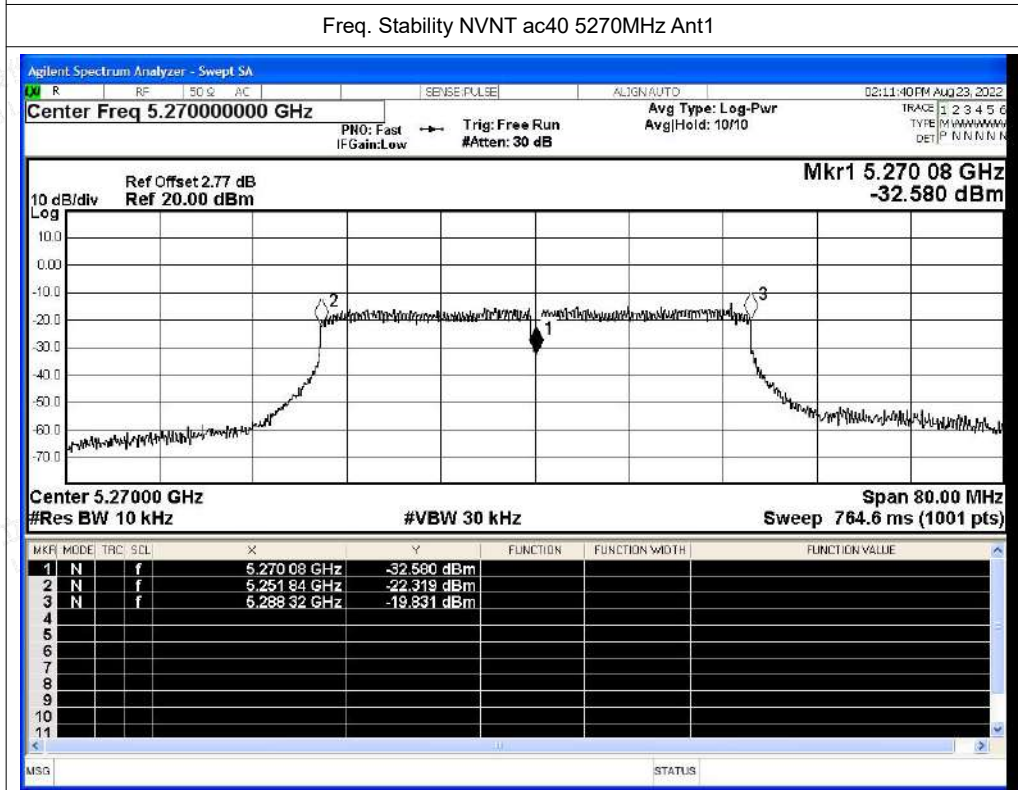
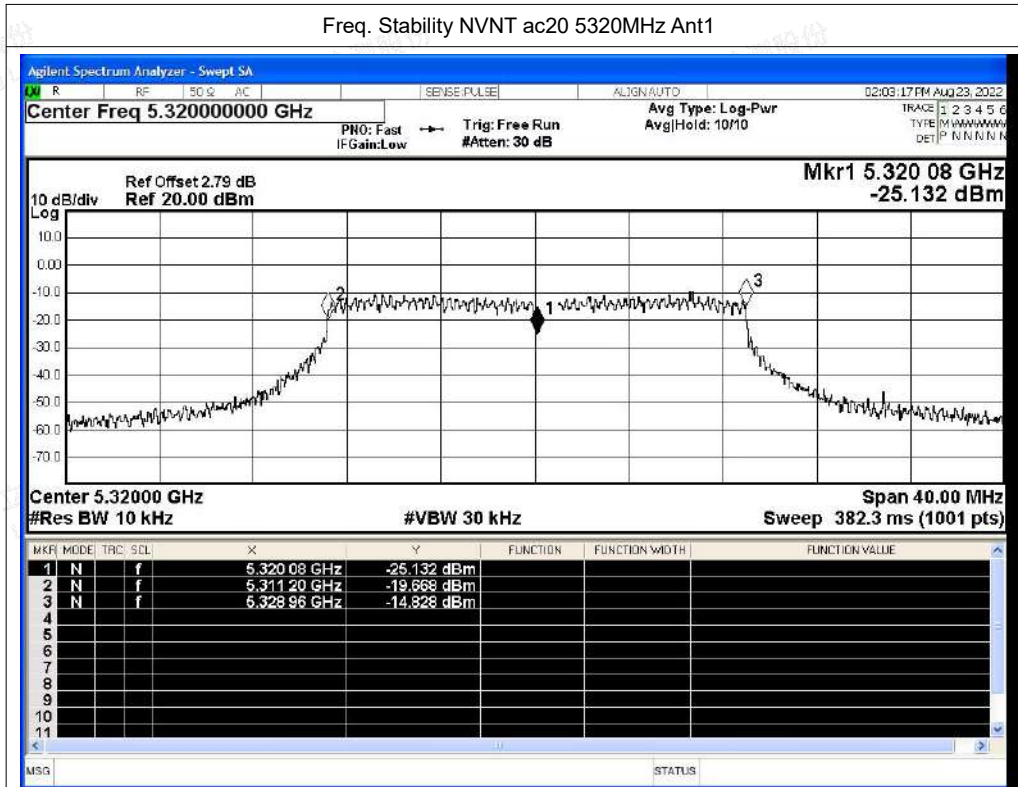


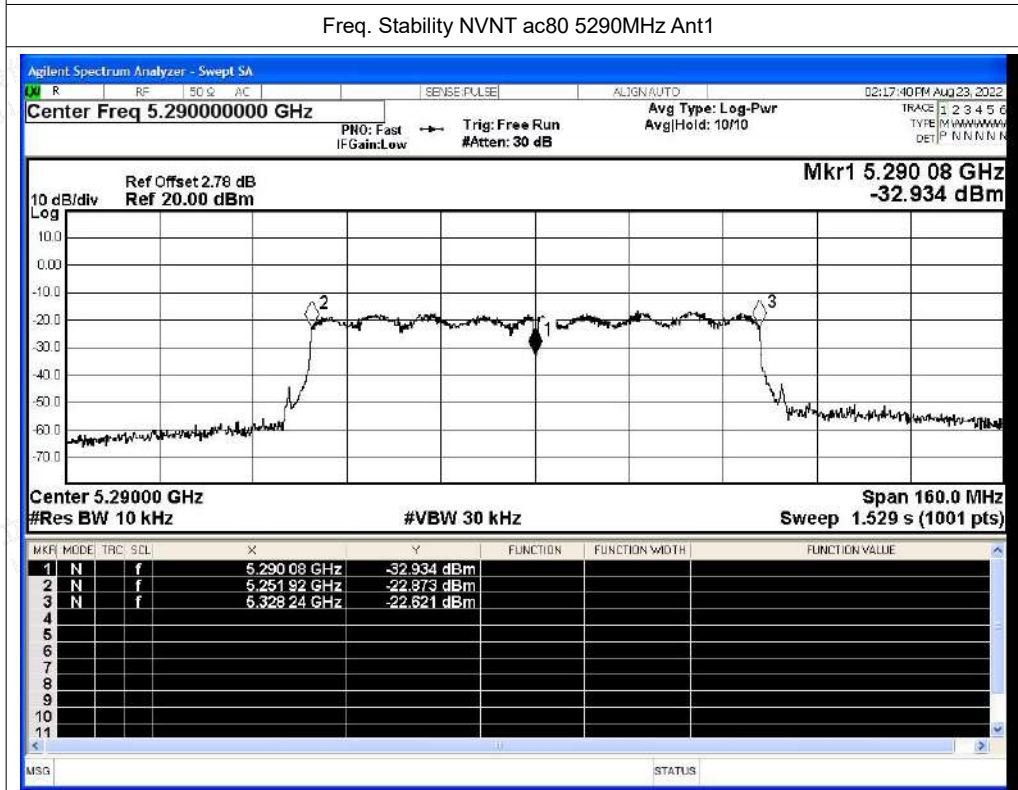
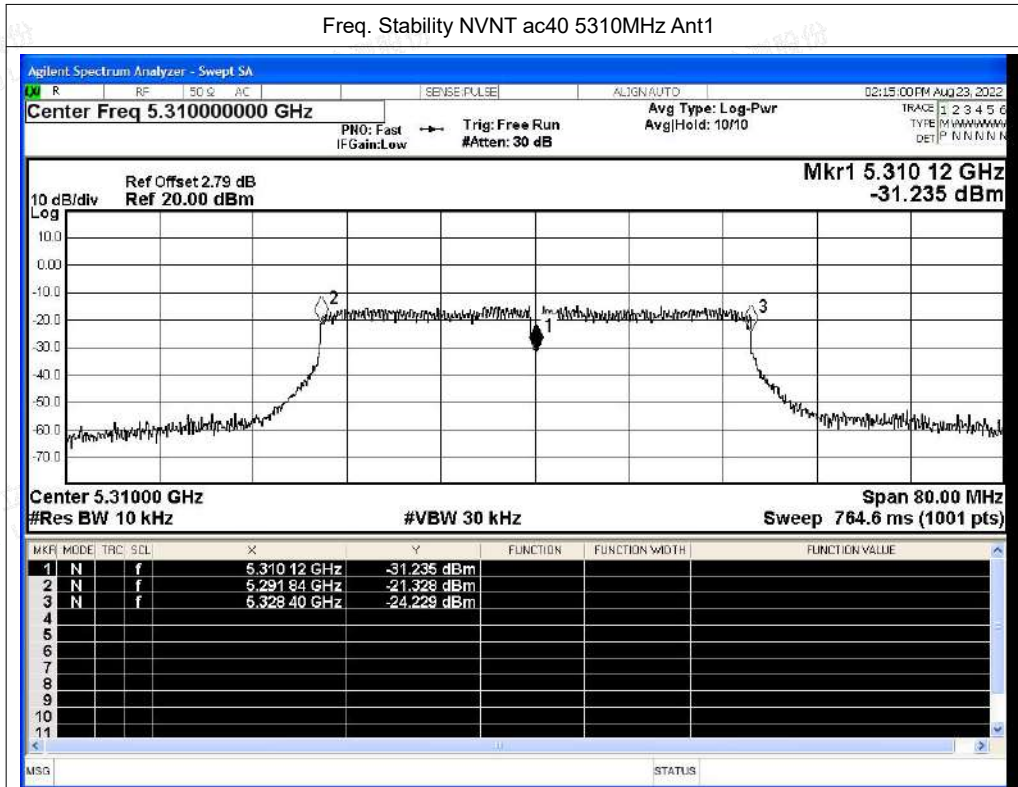
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### C.7 Duty Cycle

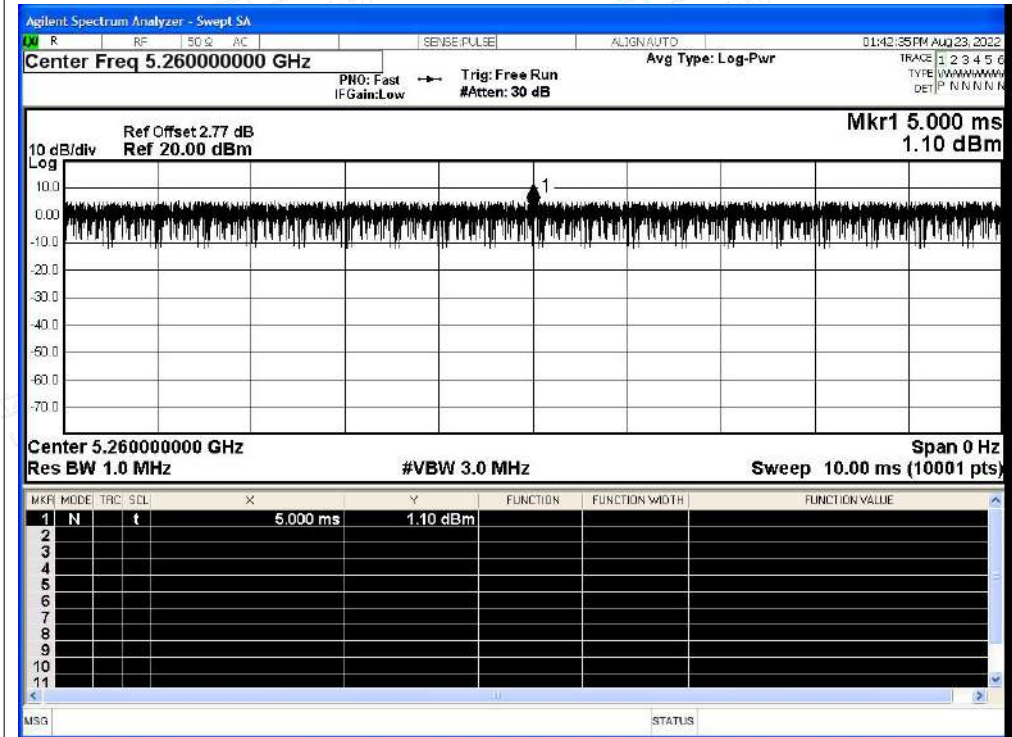
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	100	0	0
NVNT	a	5300	Ant1	100	0	0
NVNT	a	5320	Ant1	100	0	0
NVNT	n20	5260	Ant1	100	0	0
NVNT	n20	5300	Ant1	100	0	0
NVNT	n20	5320	Ant1	100	0	0
NVNT	n40	5270	Ant1	100	0	0
NVNT	n40	5310	Ant1	100	0	0
NVNT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



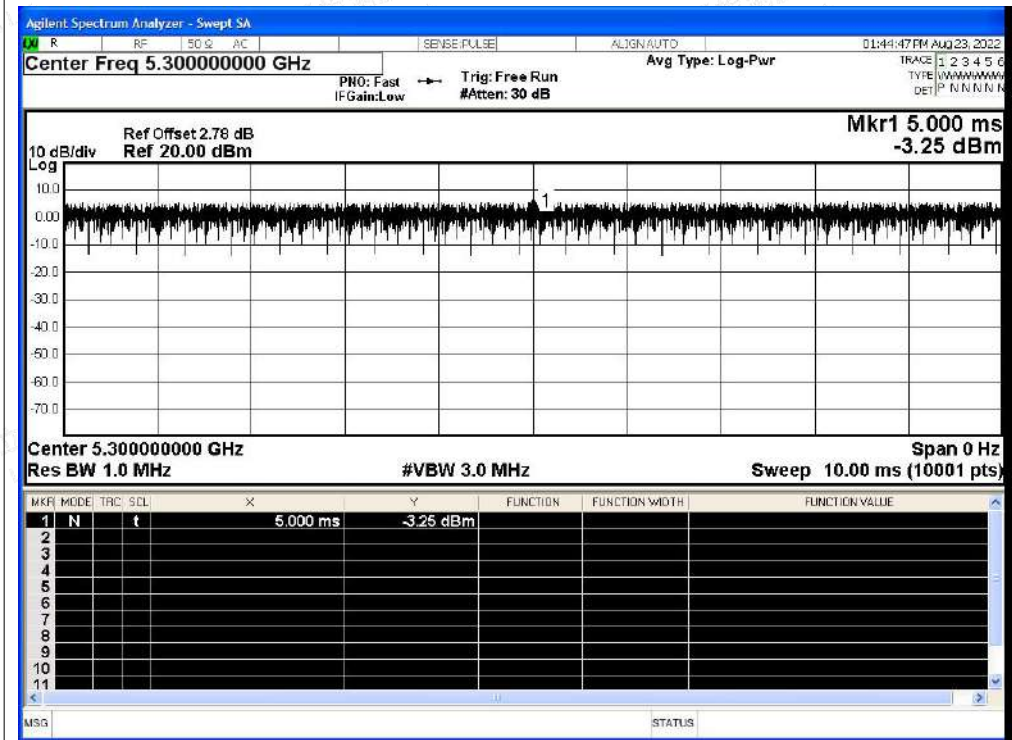


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

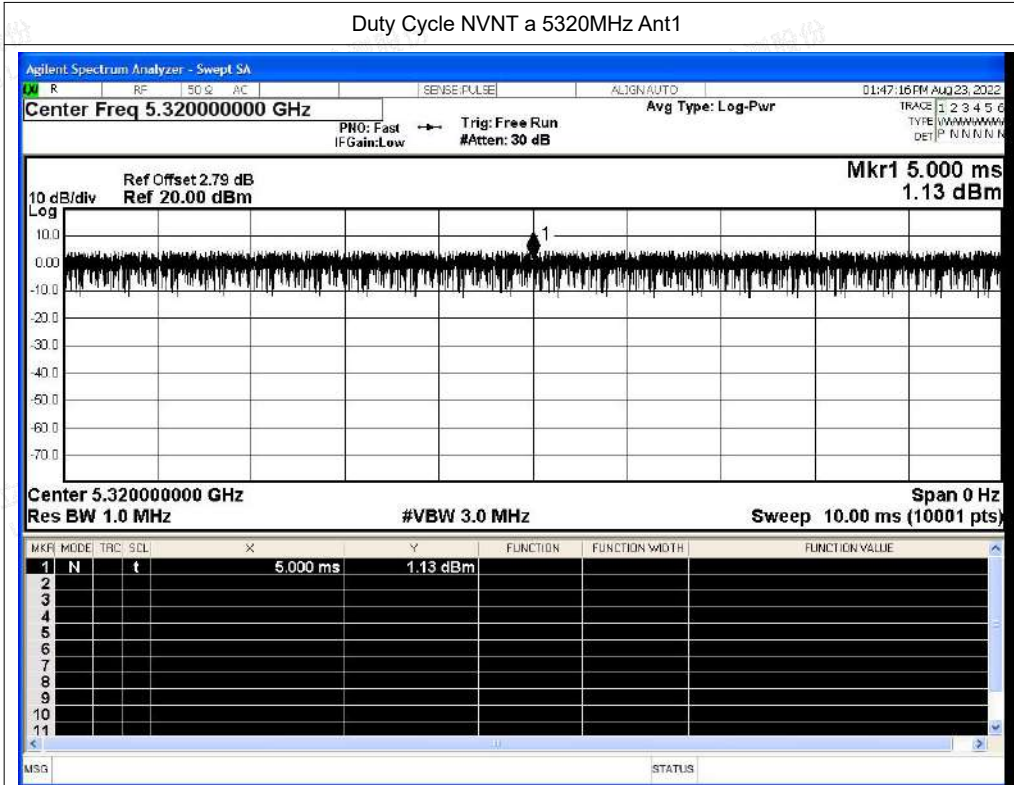
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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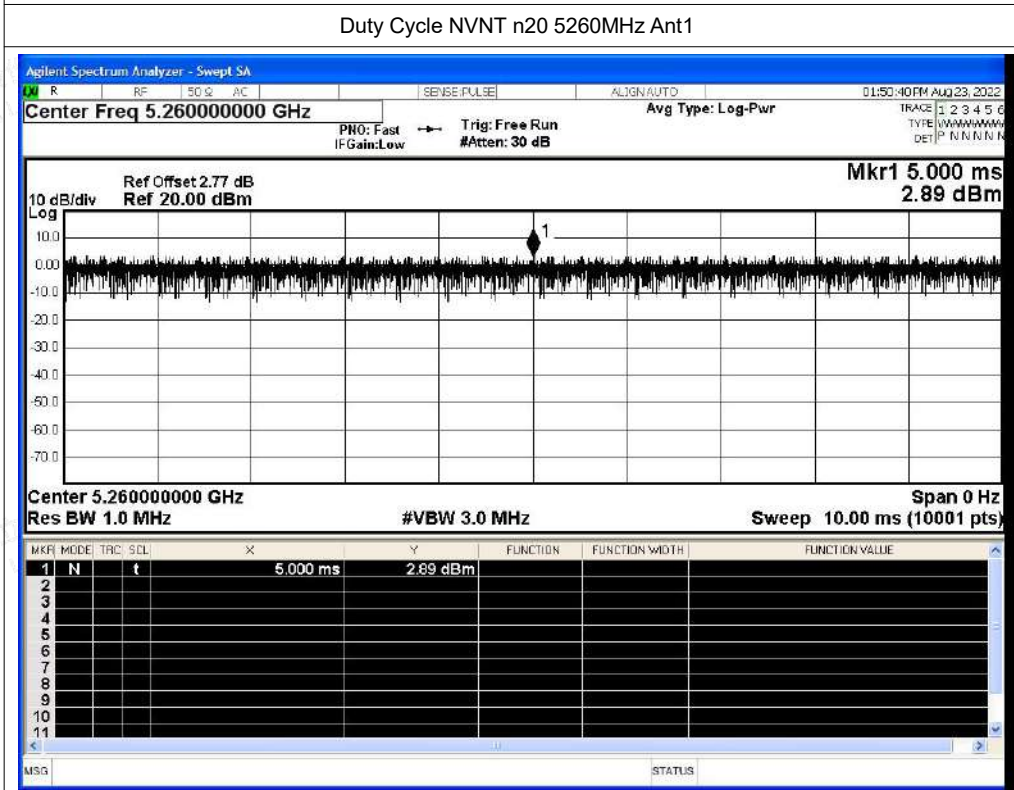
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Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1



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