



Appendix C

RF Test Data for 5.5GWIFI (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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C.1 26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Limit 26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	28.03	No limit	Pass
NVNT	a	5580	Ant1	28.673	No limit	Pass
NVNT	a	5700	Ant1	27.946	No limit	Pass
NVNT	n20	5500	Ant1	22.688	No limit	Pass
NVNT	n20	5580	Ant1	26.141	No limit	Pass
NVNT	n20	5700	Ant1	25.283	No limit	Pass
NVNT	n40	5510	Ant1	46.776	No limit	Pass
NVNT	n40	5550	Ant1	44.002	No limit	Pass
NVNT	n40	5670	Ant1	56.972	No limit	Pass
NVNT	ac20	5500	Ant1	21.638	No limit	Pass
NVNT	ac20	5580	Ant1	26.721	No limit	Pass
NVNT	ac20	5700	Ant1	26.016	No limit	Pass
NVNT	ac40	5510	Ant1	47.171	No limit	Pass
NVNT	ac40	5550	Ant1	56.774	No limit	Pass
NVNT	ac40	5670	Ant1	52.472	No limit	Pass
NVNT	ac80	5530	Ant1	97.2	No limit	Pass
NVNT	ac80	5610	Ant1	105.915	No limit	Pass

Note: 5610MHz data apply to FCC.



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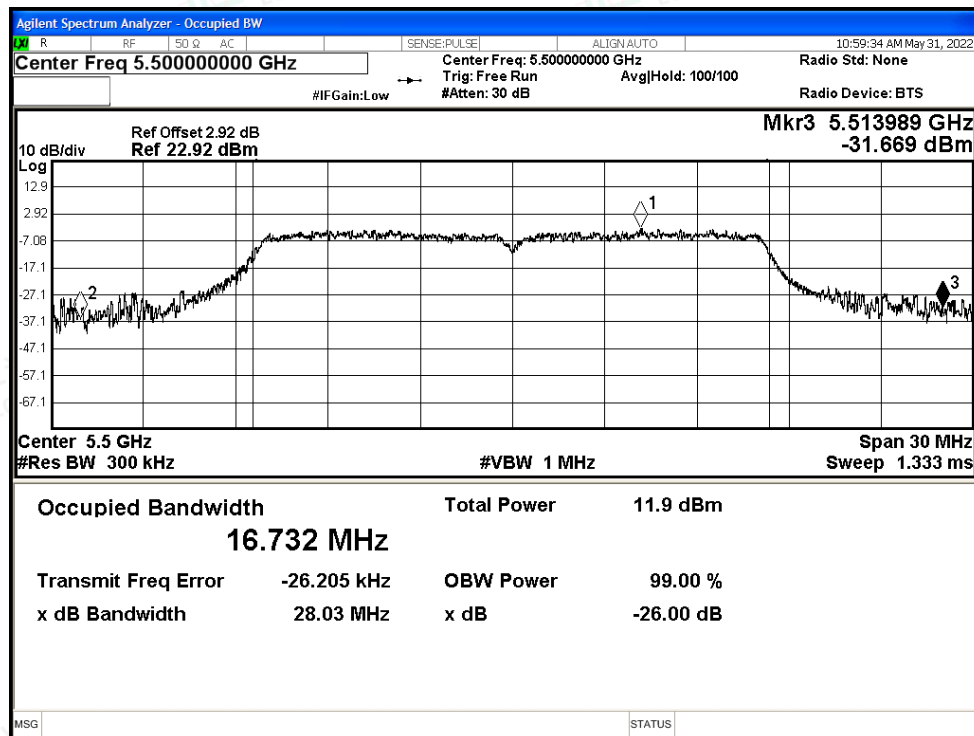
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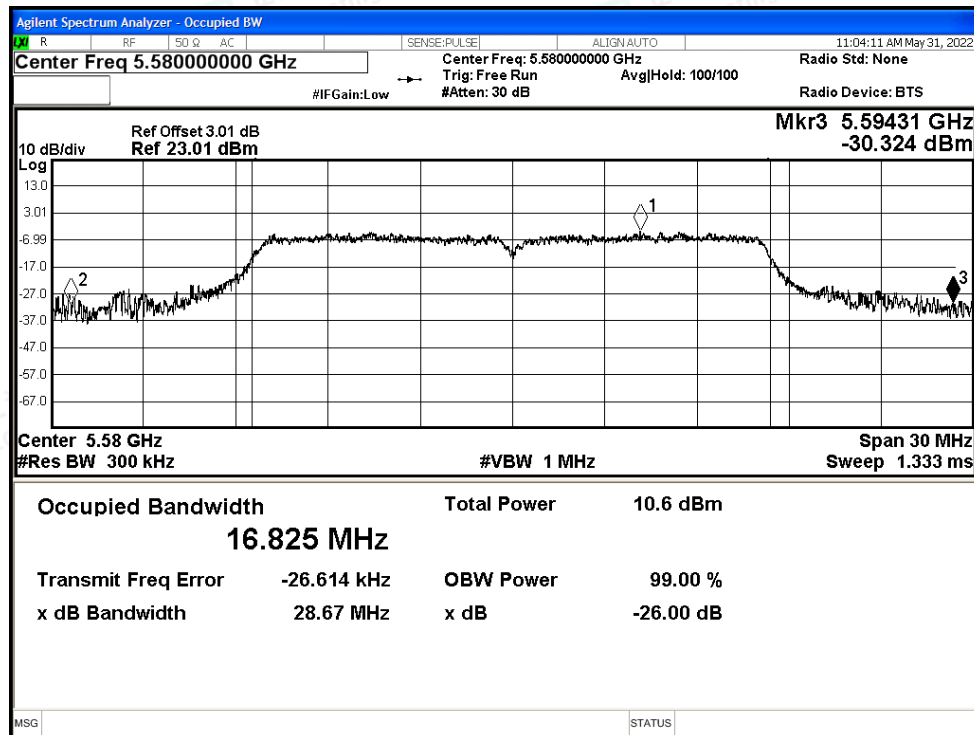


Test Graphs

26dB Bandwidth NVNT a 5500MHz Ant1



26dB Bandwidth NVNT a 5580MHz Ant1



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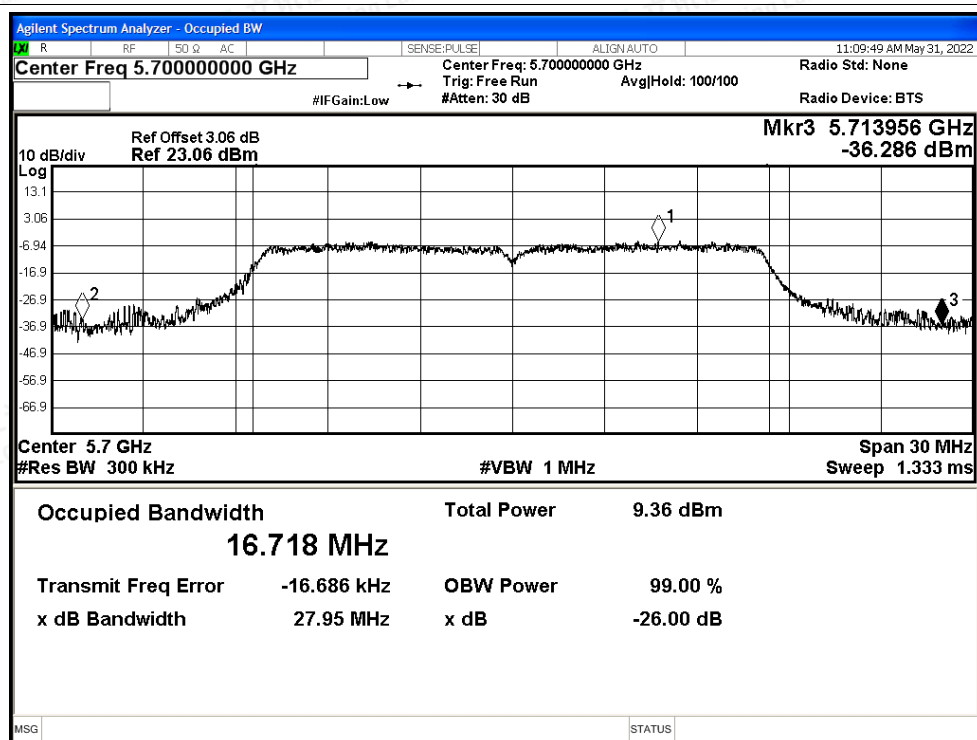
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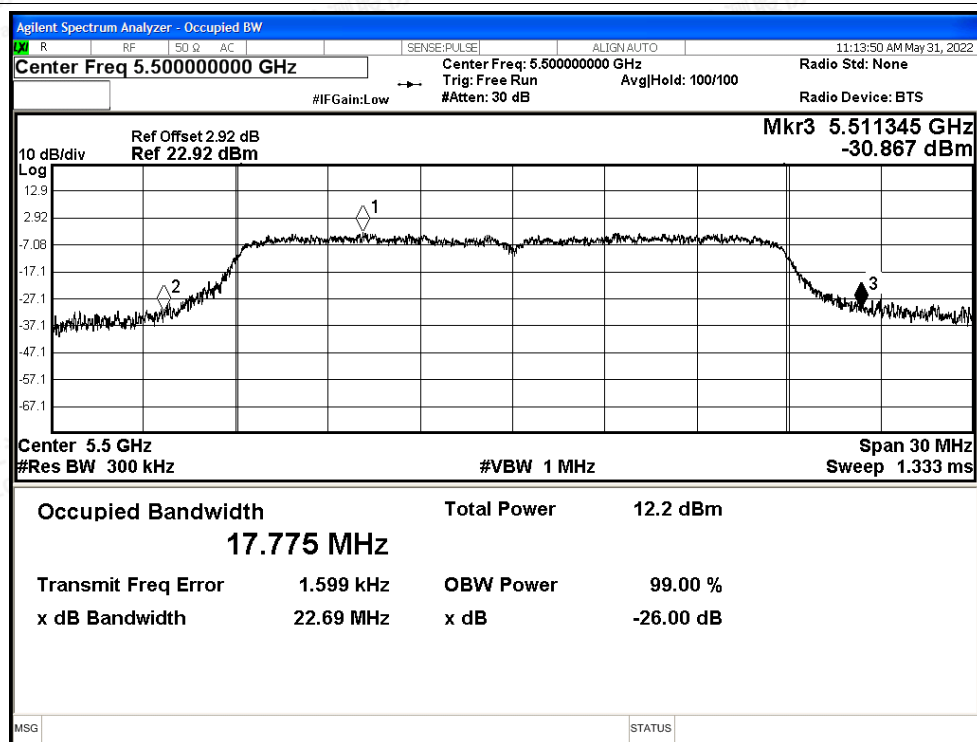
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26dB Bandwidth NVNT a 5700MHz Ant1



26dB Bandwidth NVNT n20 5500MHz Ant1



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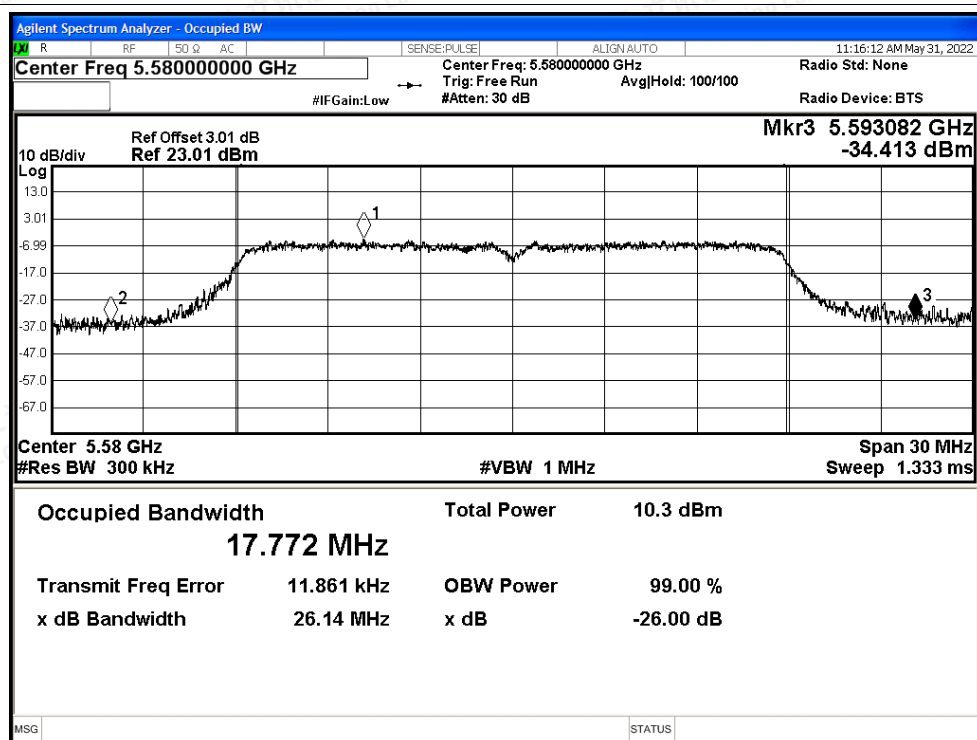
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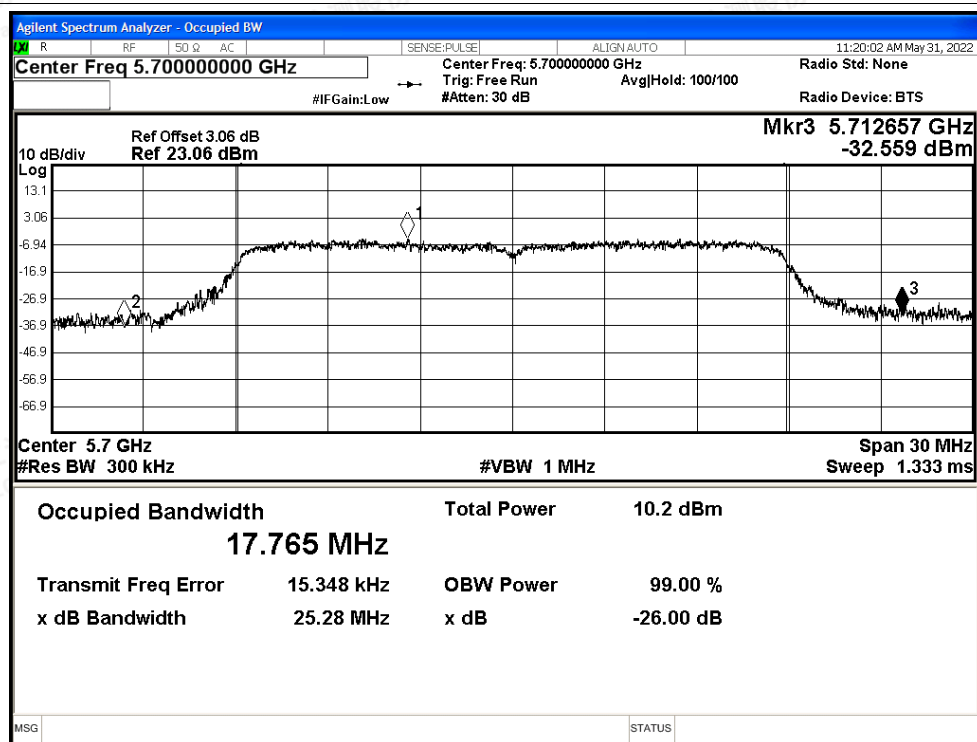
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26dB Bandwidth NVNT n20 5580MHz Ant1



26dB Bandwidth NVNT n20 5700MHz Ant1



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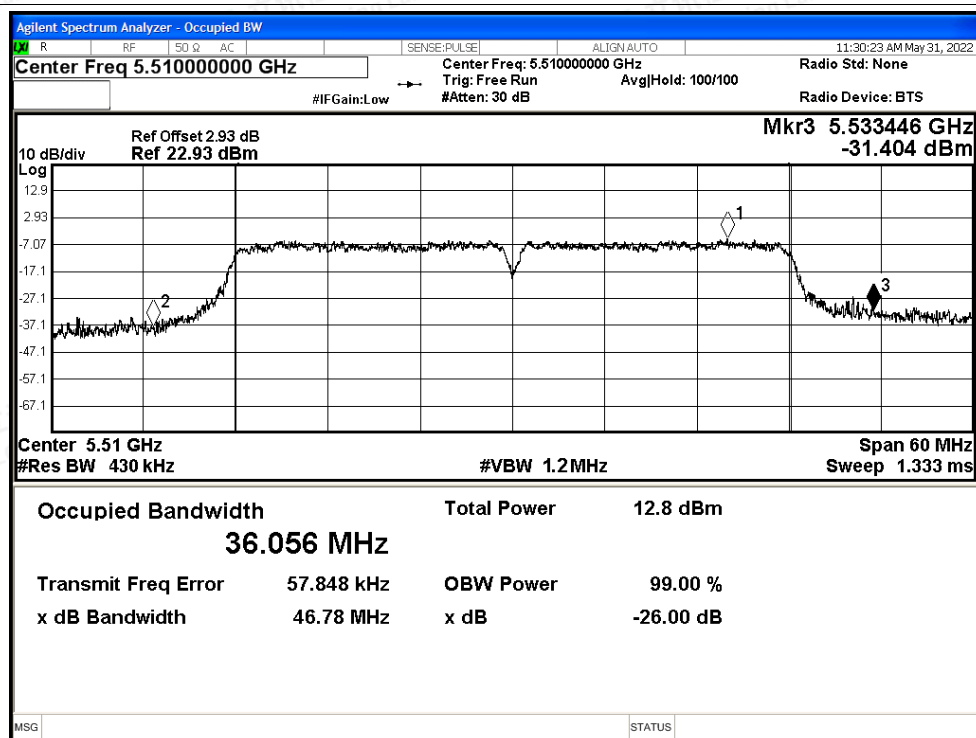
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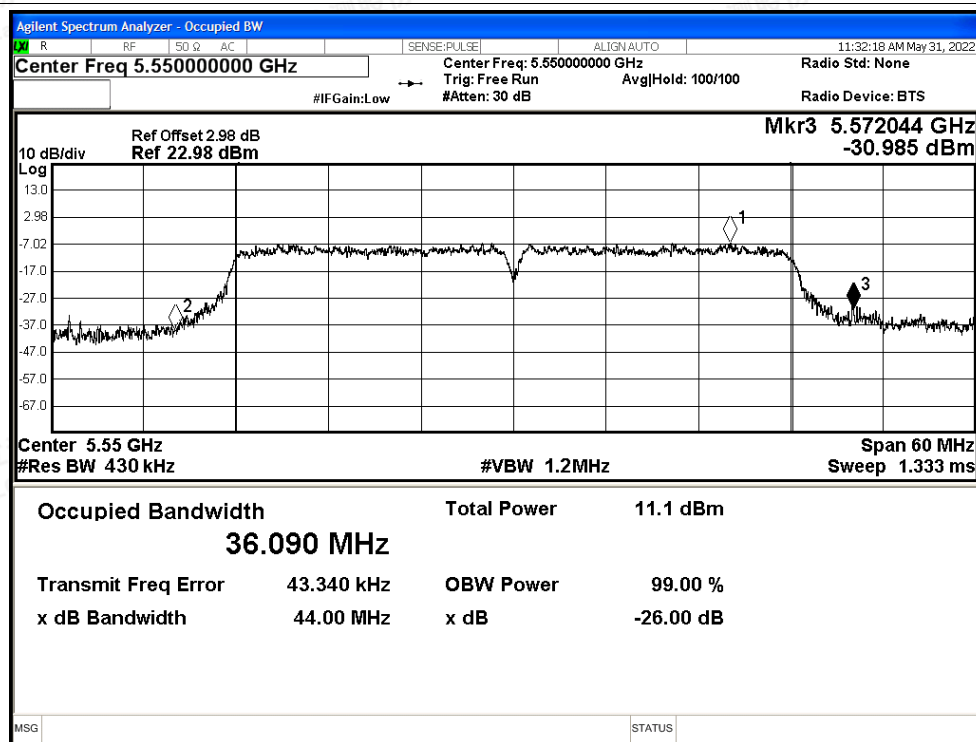
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26dB Bandwidth NVNT n40 5510MHz Ant1



26dB Bandwidth NVNT n40 5550MHz Ant1



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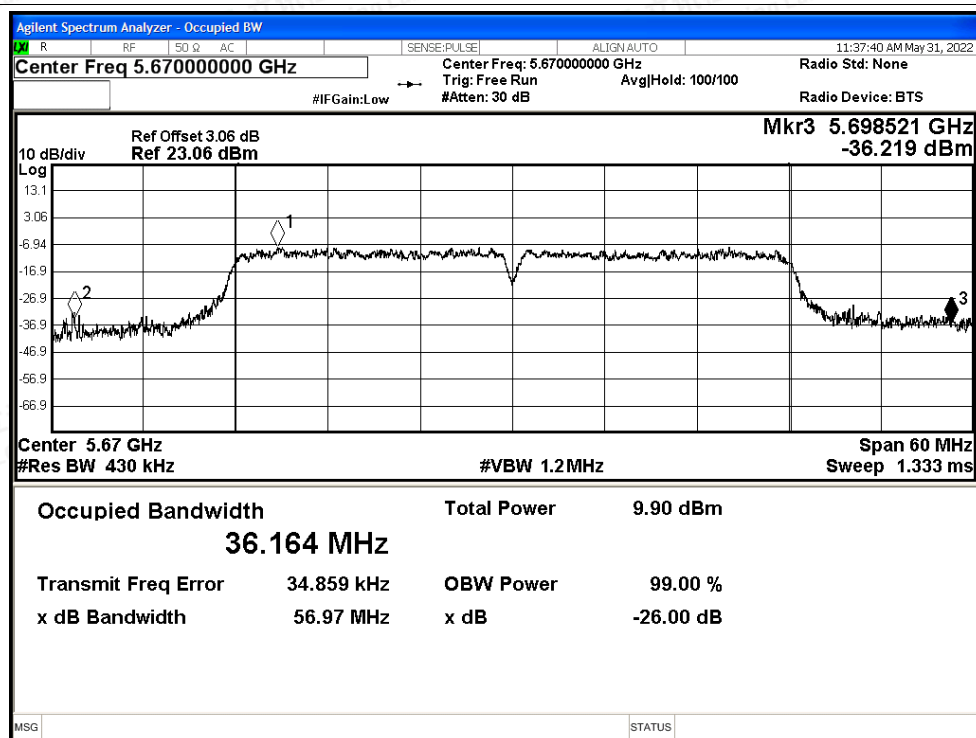
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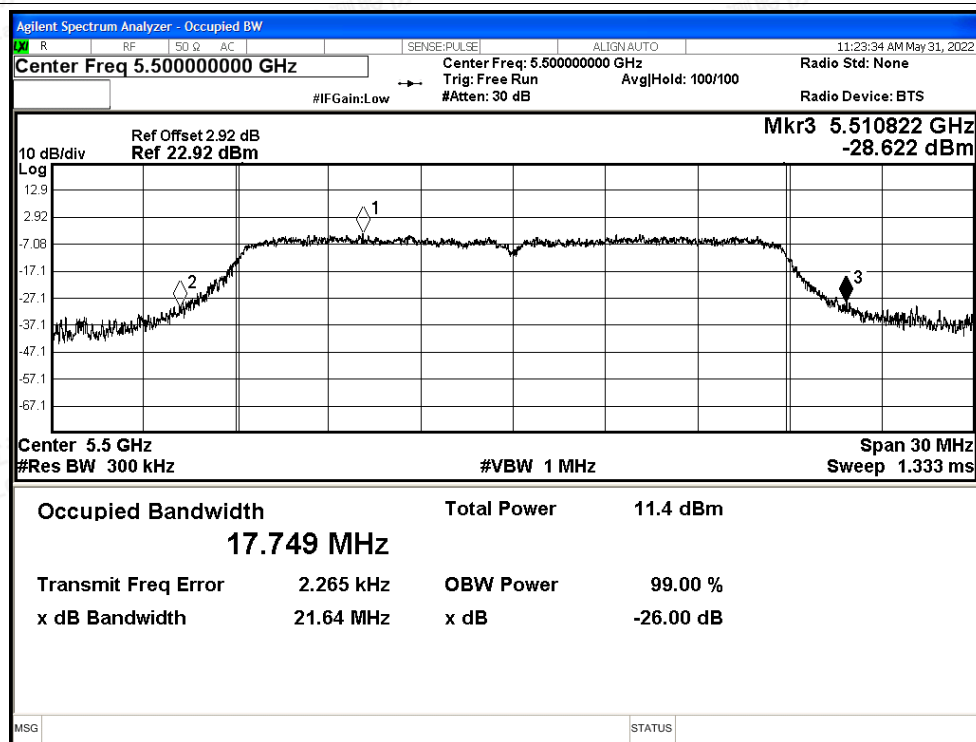
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26dB Bandwidth NVNT n40 5670MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1

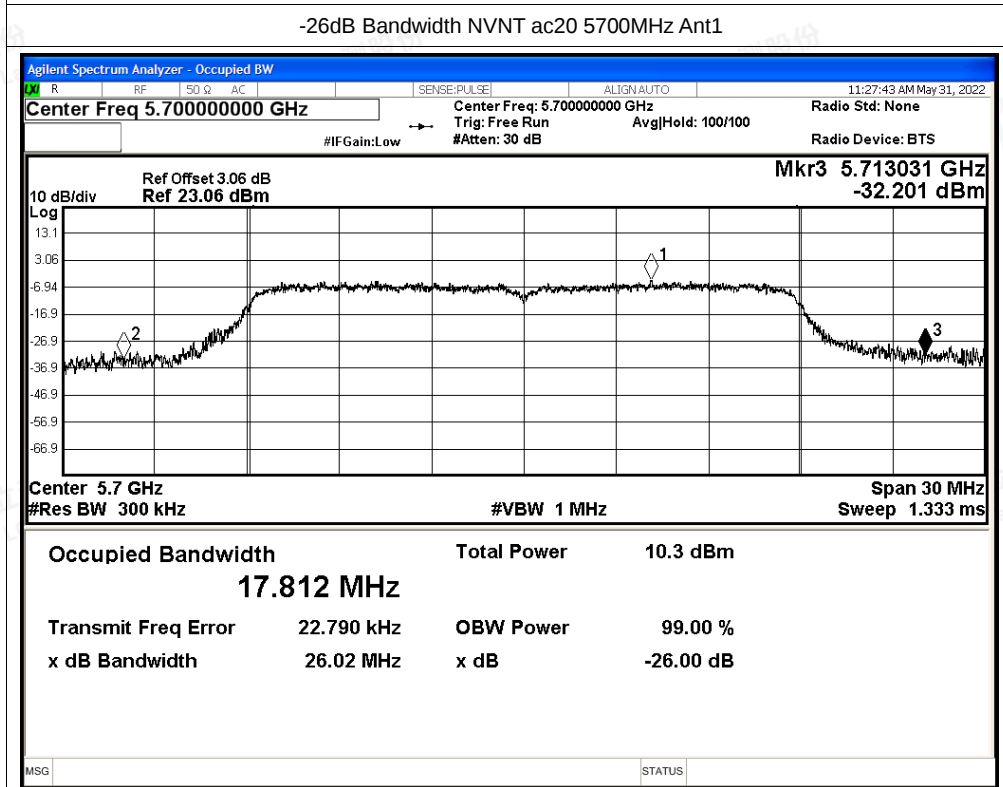
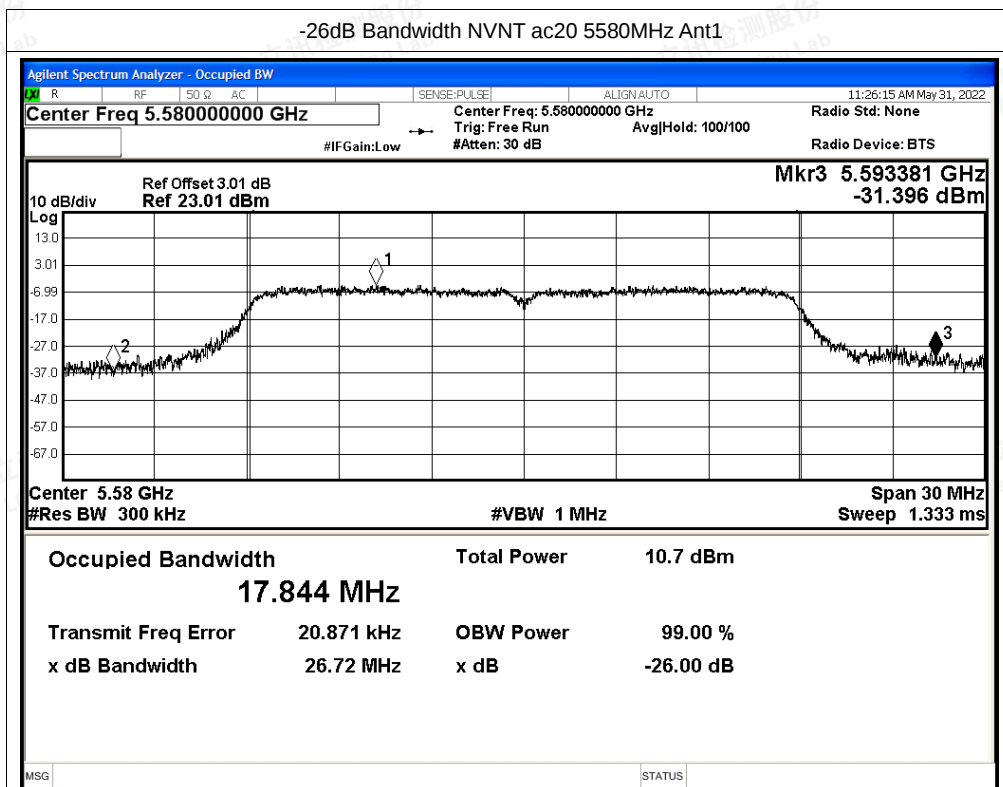


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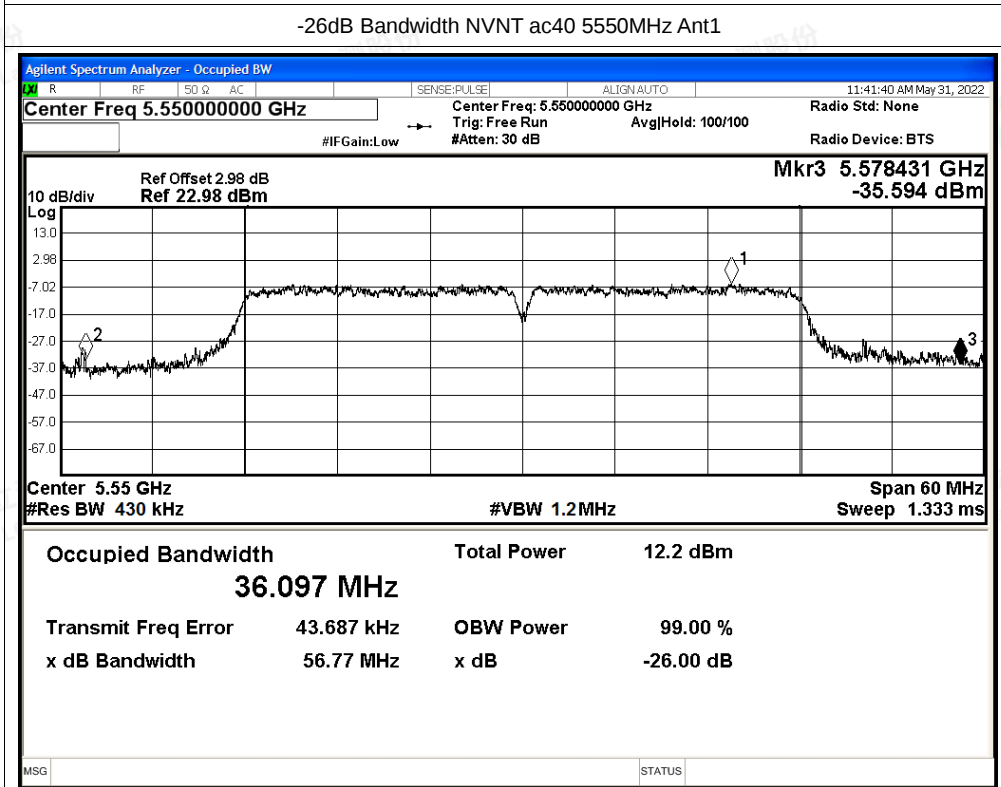
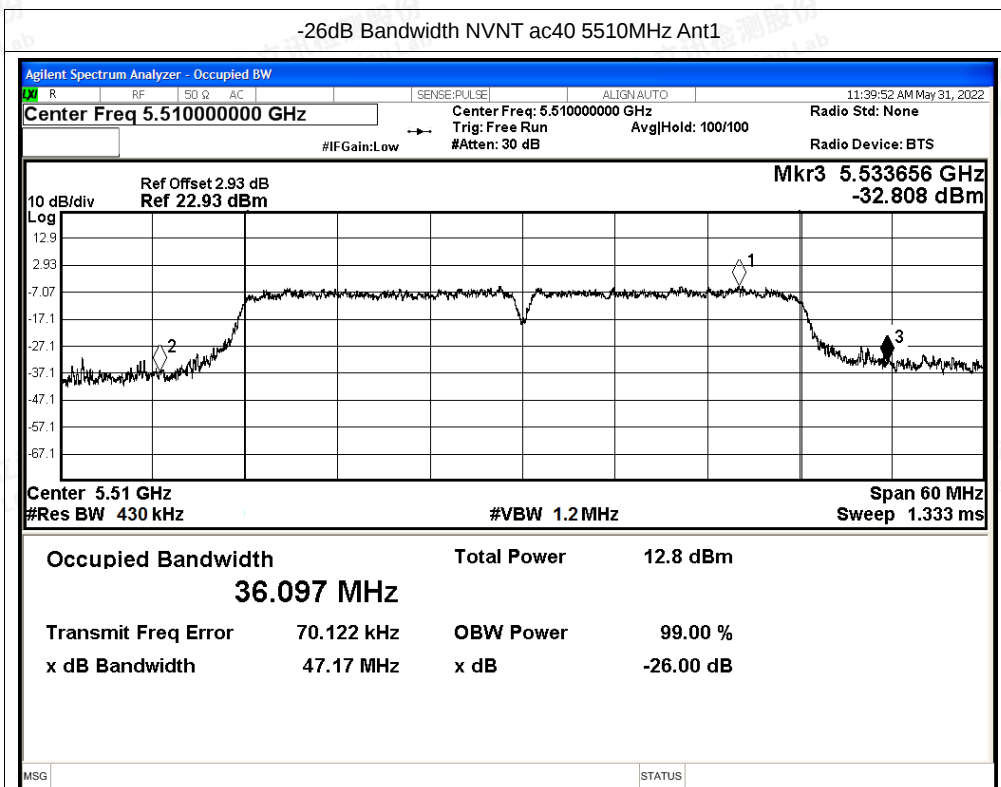


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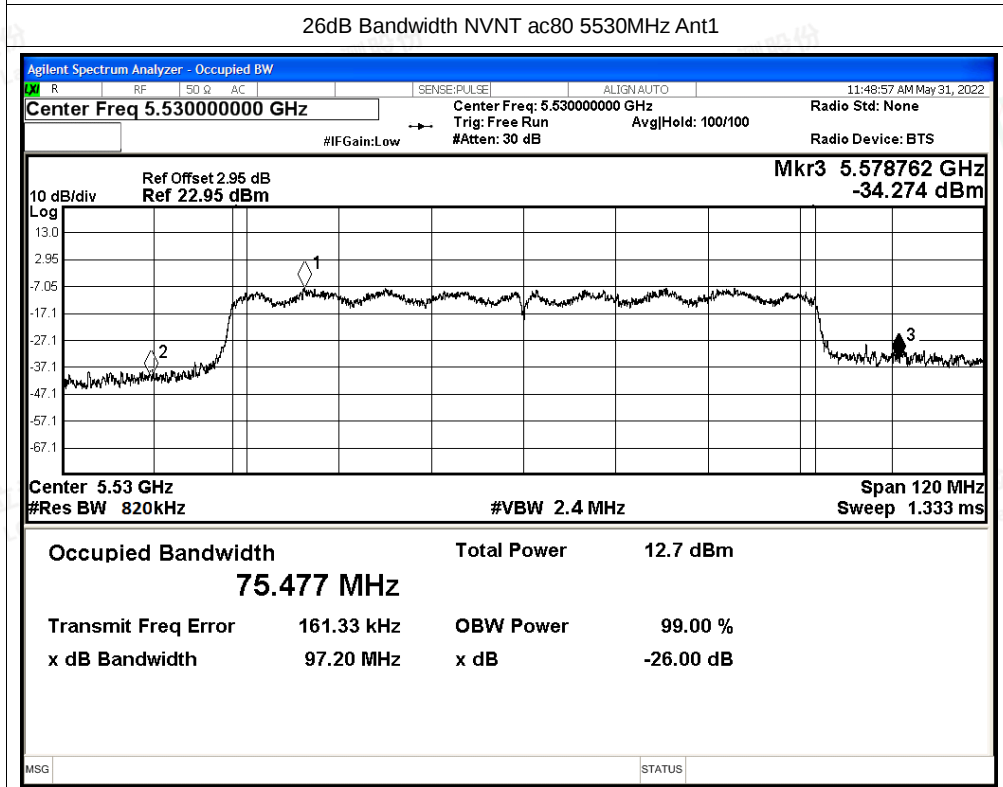
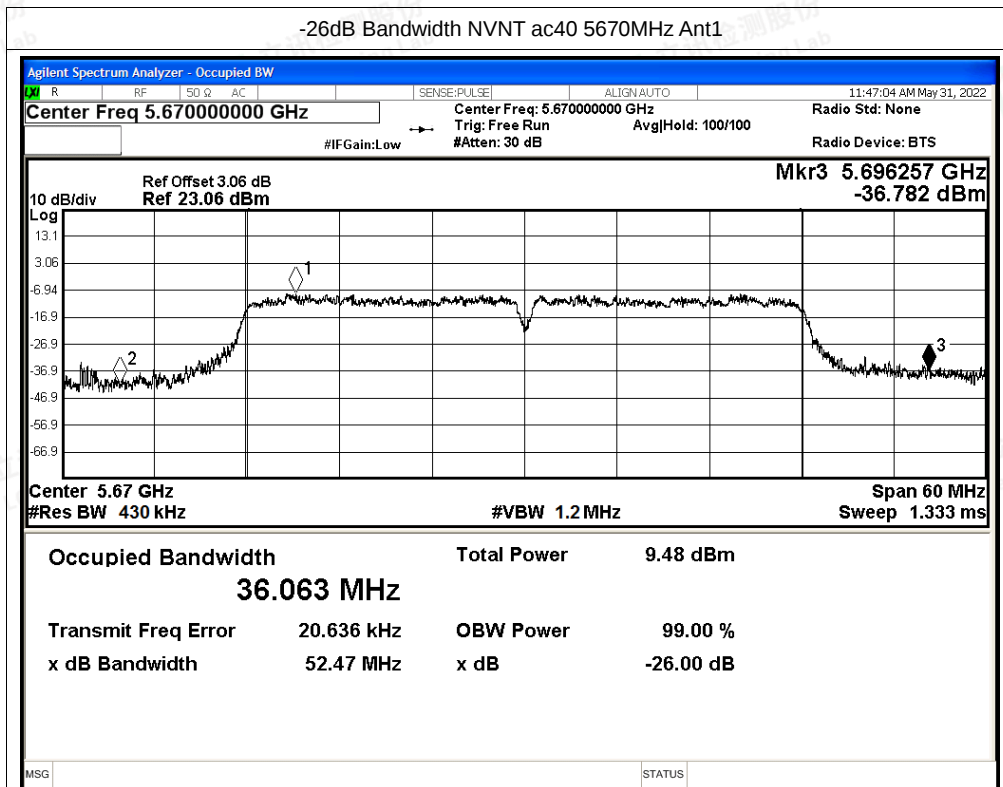


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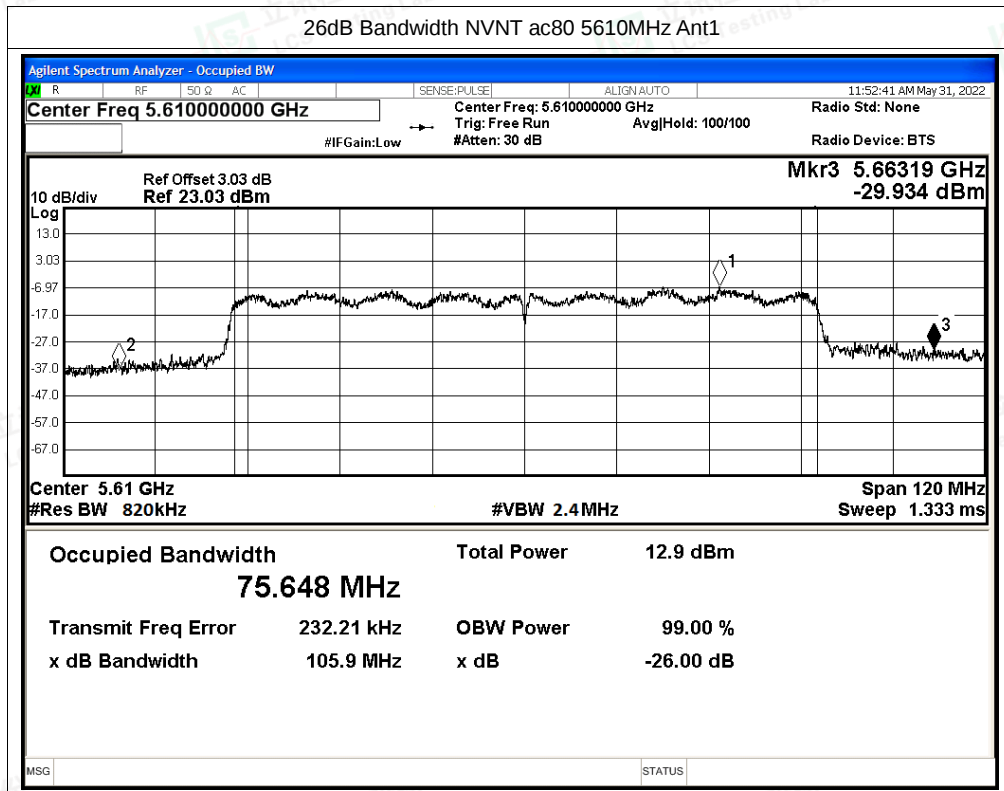


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C.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.58
NVNT	a	5580	Ant1	16.63
NVNT	a	5700	Ant1	16.582
NVNT	n20	5500	Ant1	17.687
NVNT	n20	5580	Ant1	17.697
NVNT	n20	5700	Ant1	17.705
NVNT	n40	5510	Ant1	36.176
NVNT	n40	5550	Ant1	36.148
NVNT	n40	5670	Ant1	36.198
NVNT	ac20	5500	Ant1	17.667
NVNT	ac20	5580	Ant1	17.762
NVNT	ac20	5700	Ant1	17.715
NVNT	ac40	5510	Ant1	36.152
NVNT	ac40	5550	Ant1	36.181
NVNT	ac40	5670	Ant1	36.134
NVNT	ac80	5530	Ant1	75.484
NVNT	ac80	5610	Ant1	75.79

Note: 5610MHz data apply to FCC.



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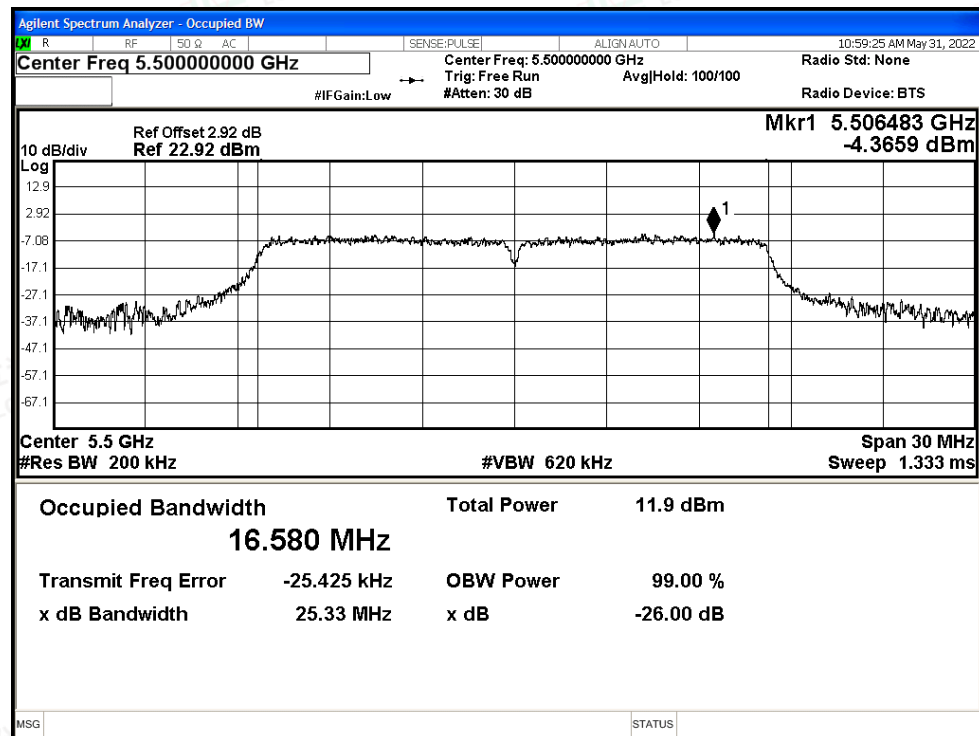
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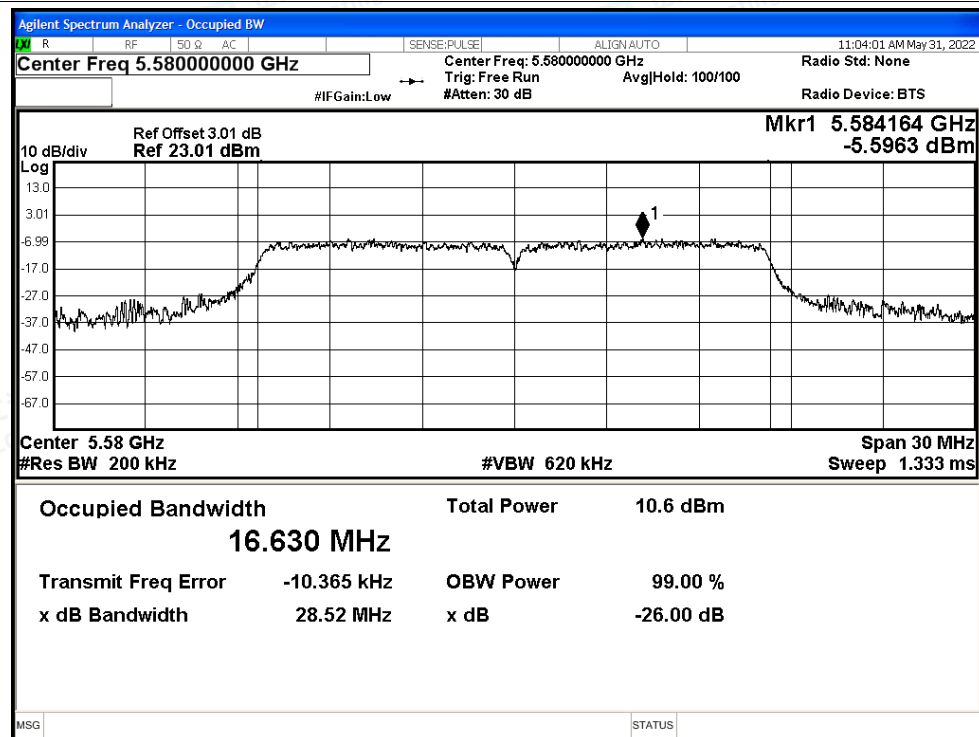


Test Graphs

OBW NVNT a 5500MHz Ant1



OBW NVNT a 5580MHz Ant1



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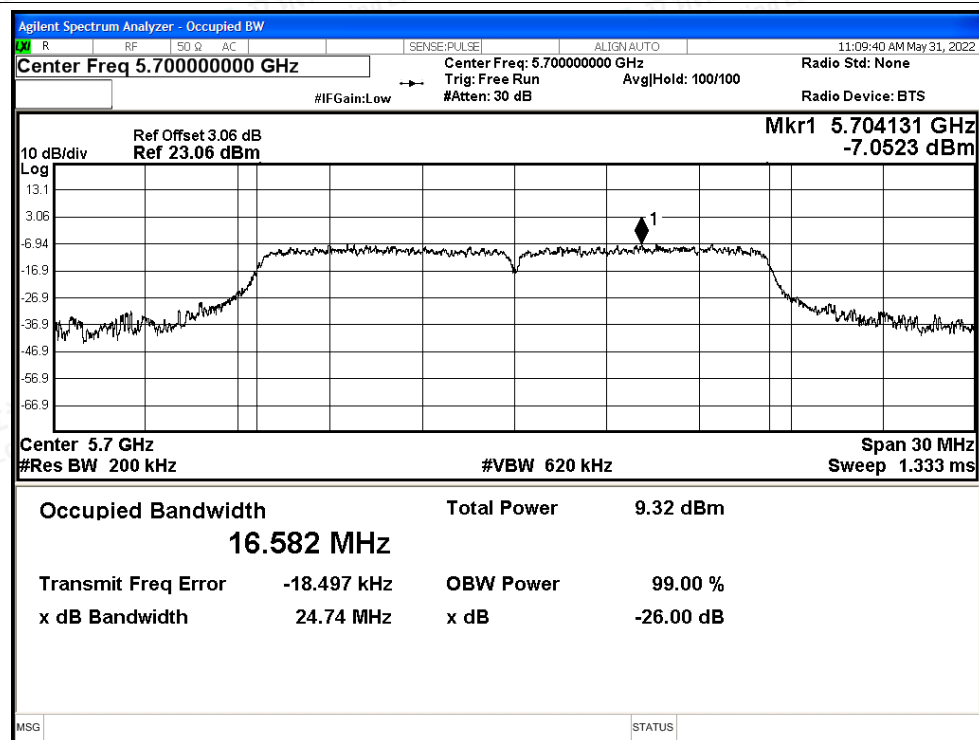
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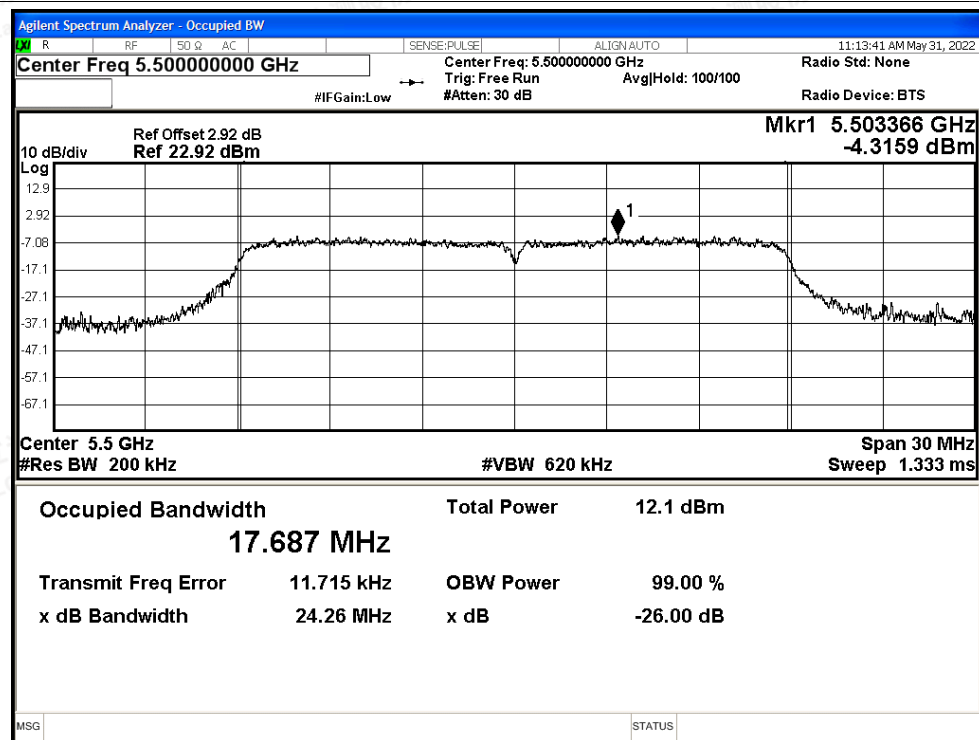
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OBW NVNT a 5700MHz Ant1



OBW NVNT n20 5500MHz Ant1

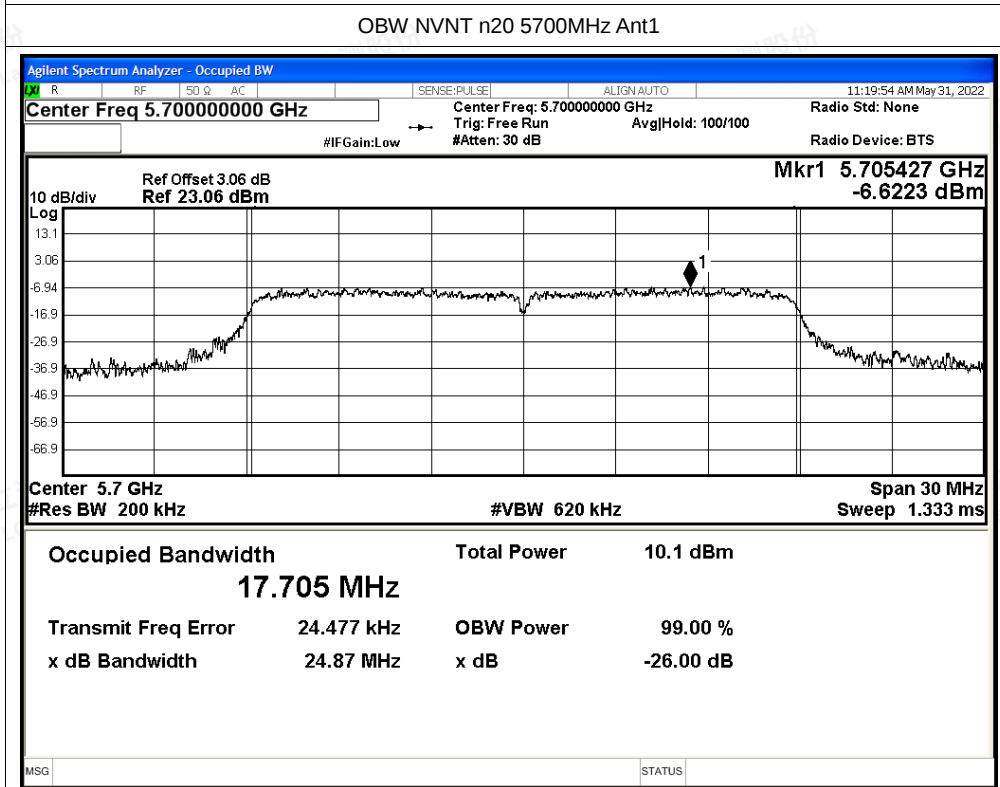
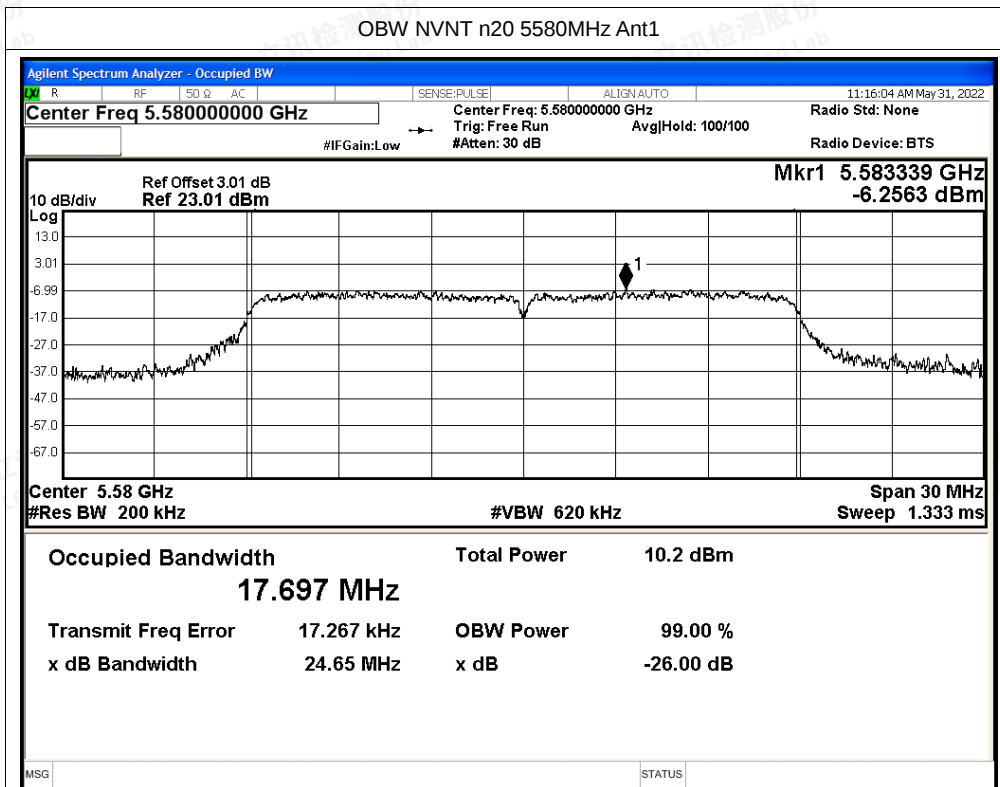


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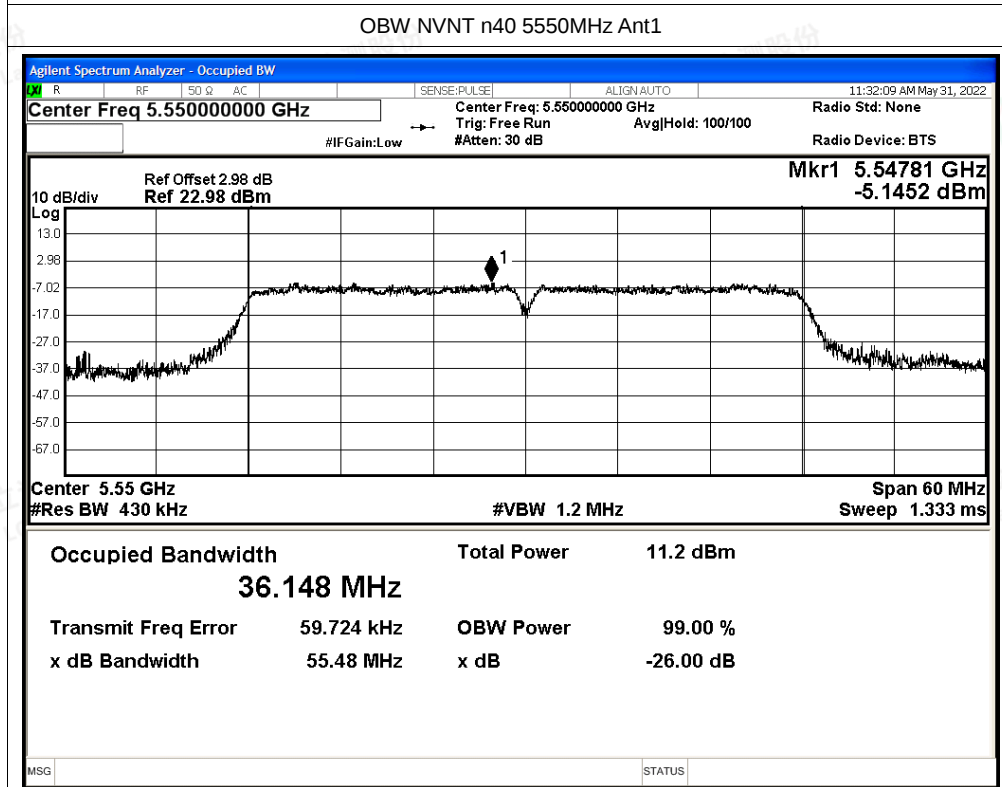
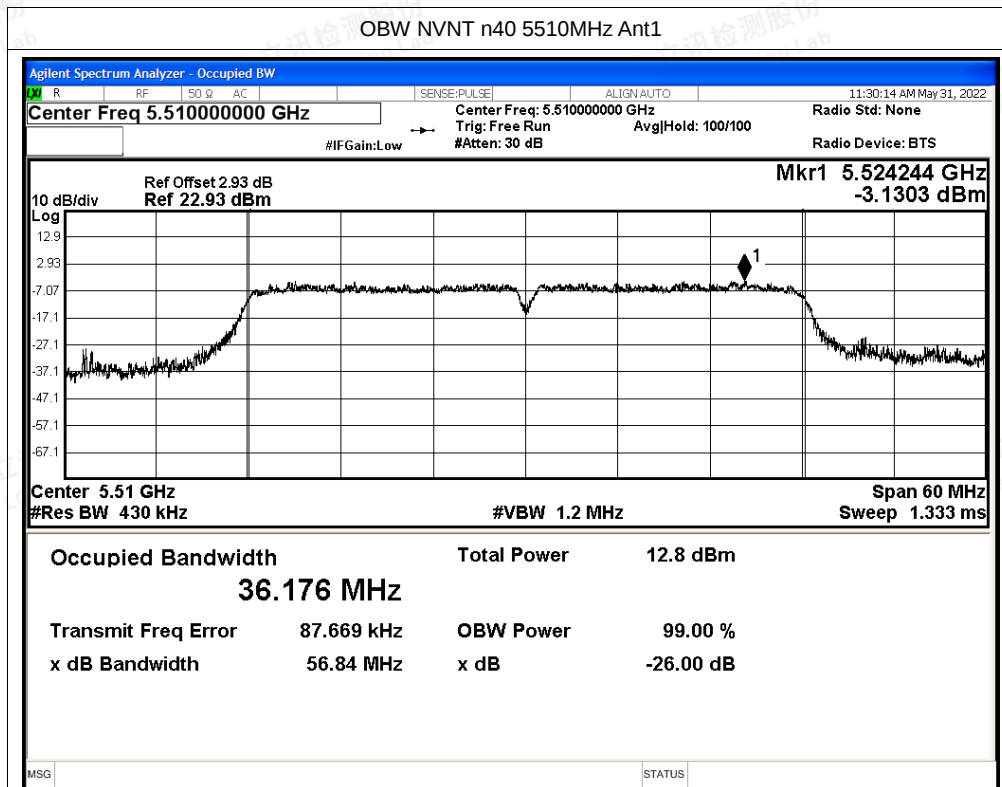


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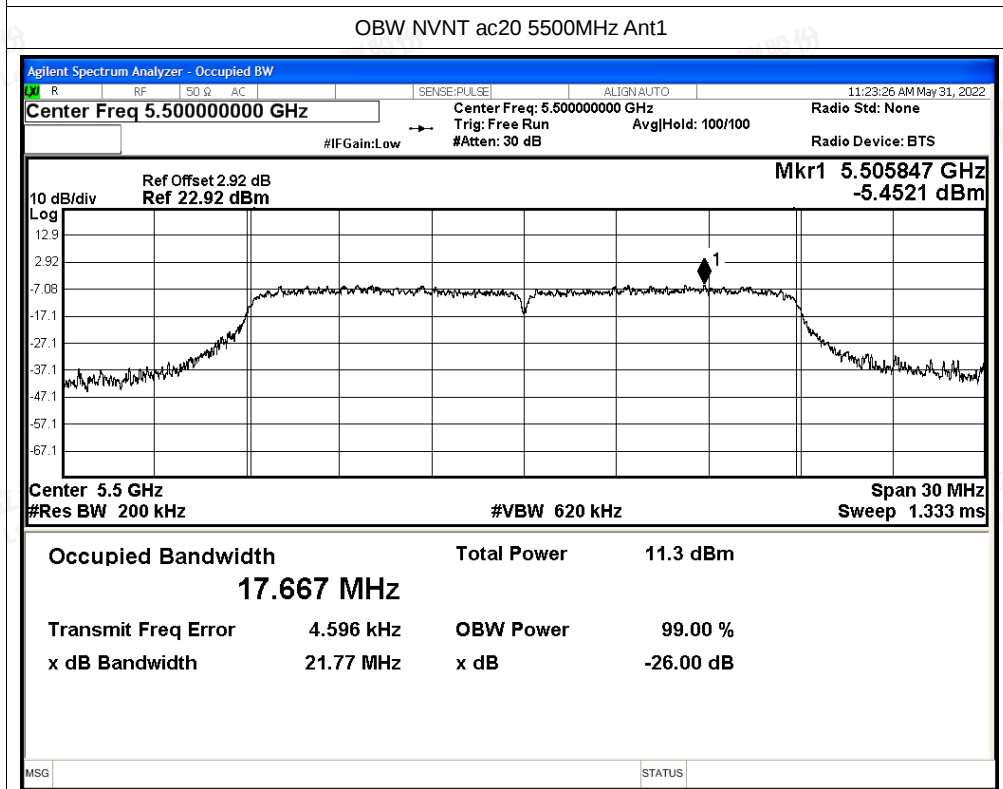
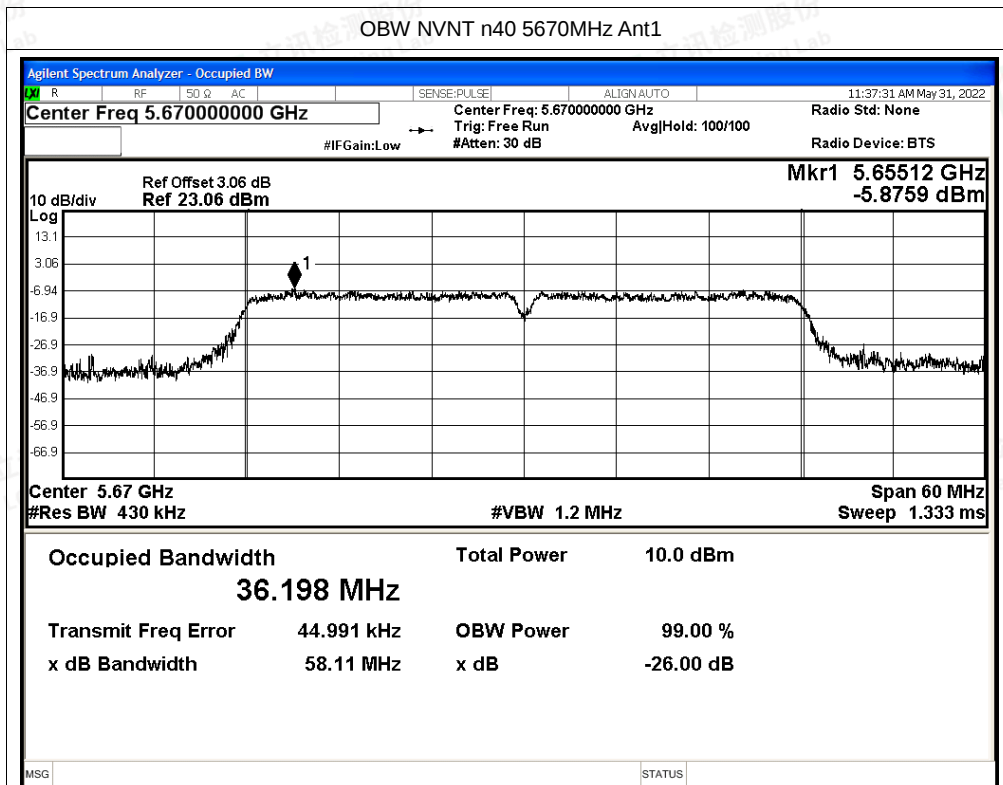


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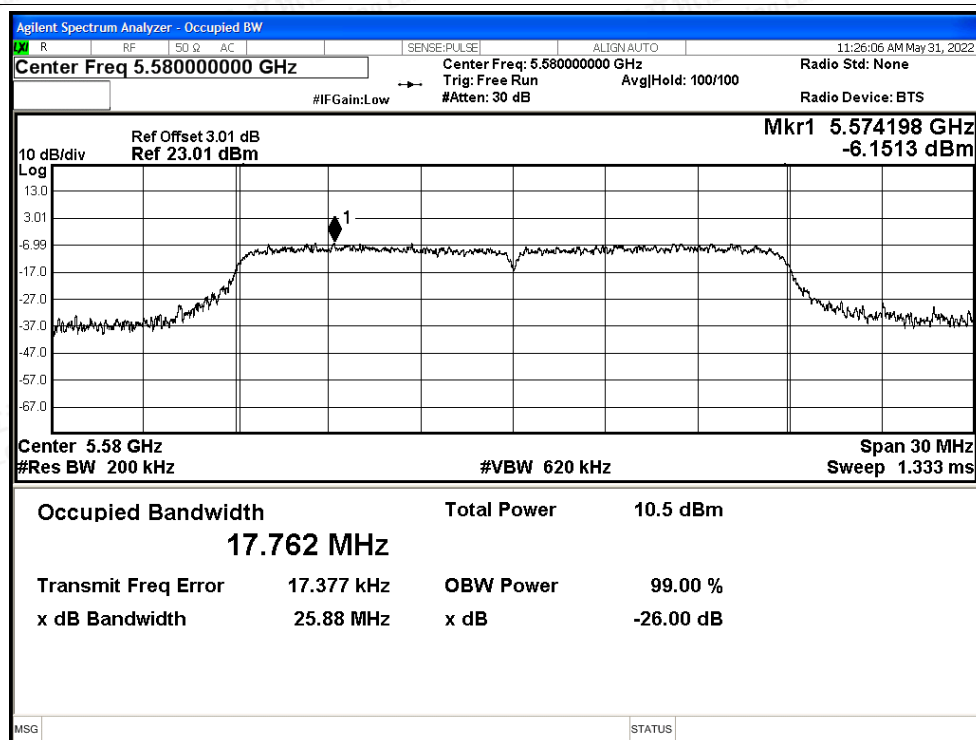
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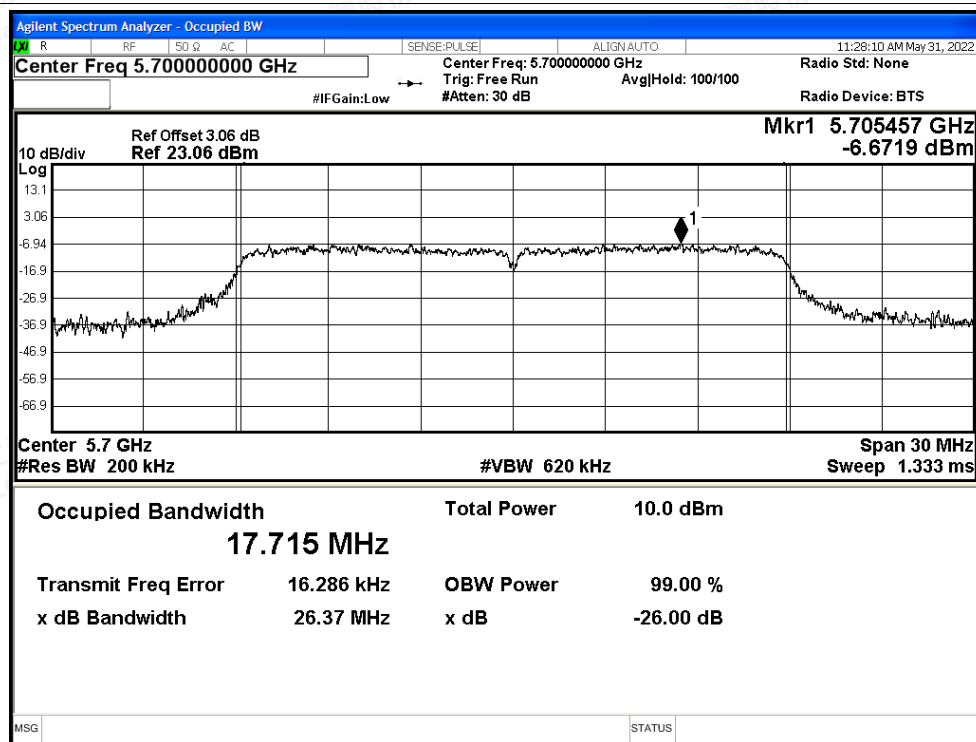
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OBW NVNT ac20 5580MHz Ant1



OBW NVNT ac20 5700MHz Ant1



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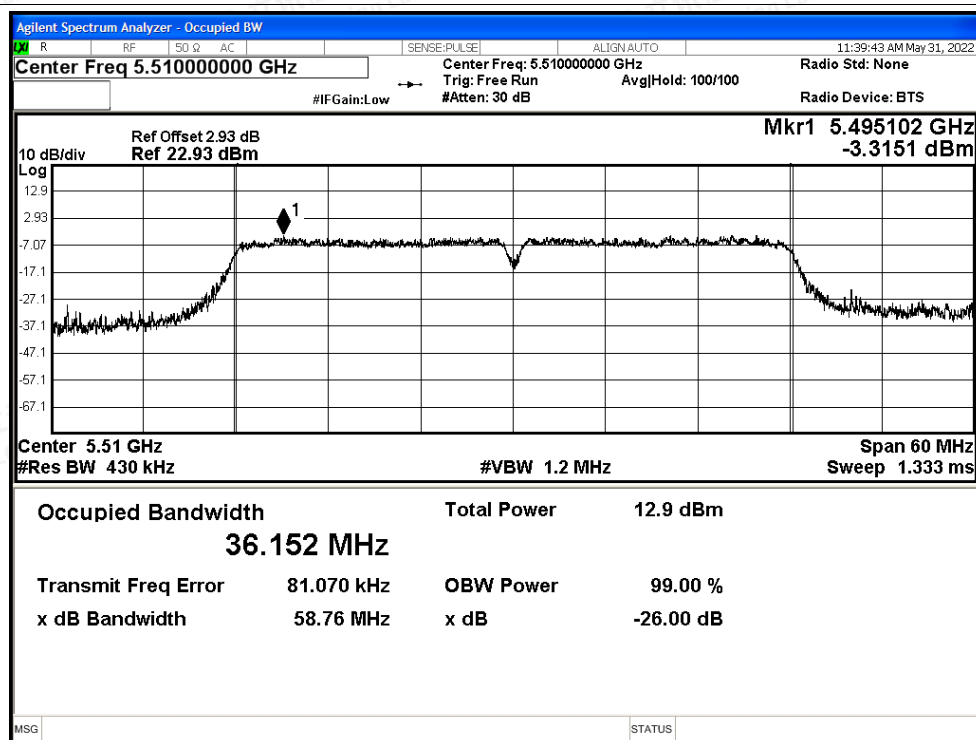
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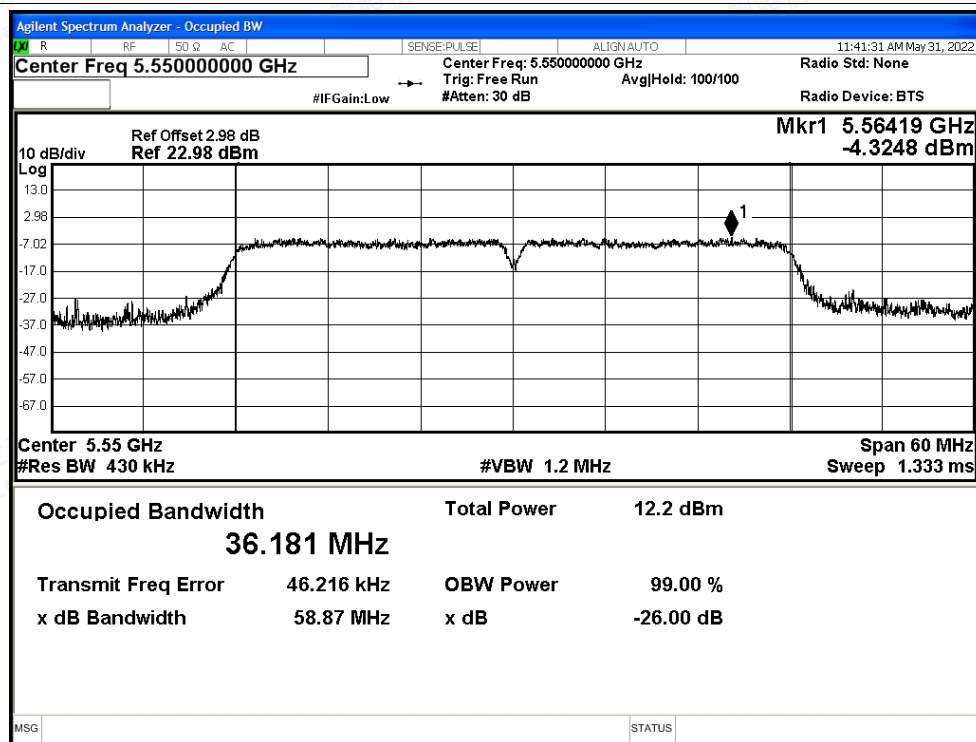
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OBW NVNT ac40 5510MHz Ant1



OBW NVNT ac40 5550MHz Ant1



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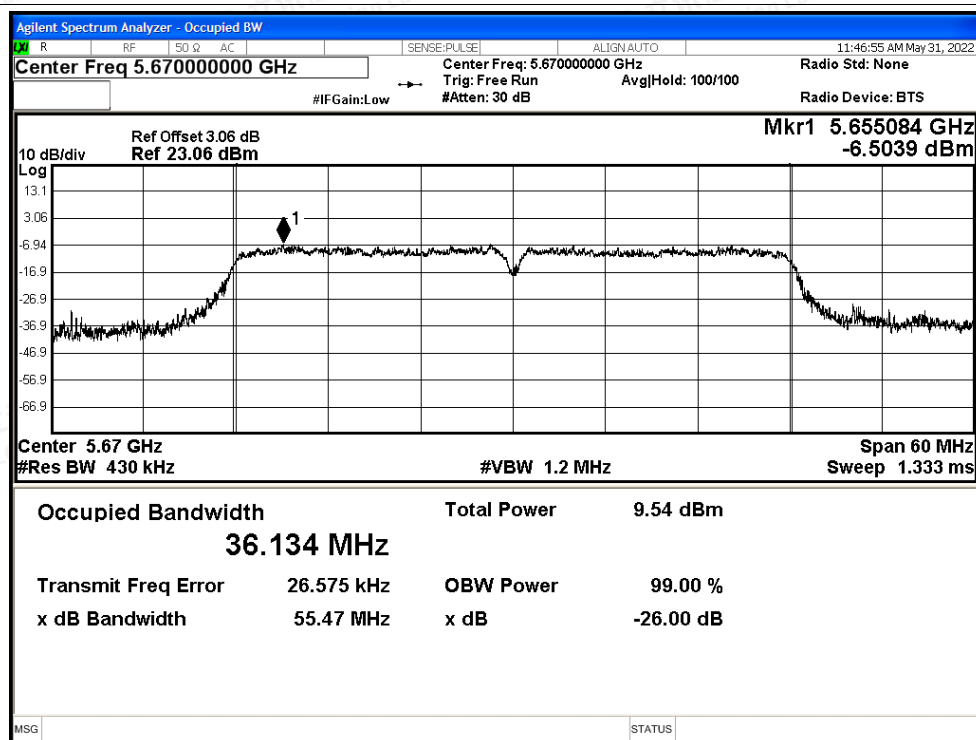
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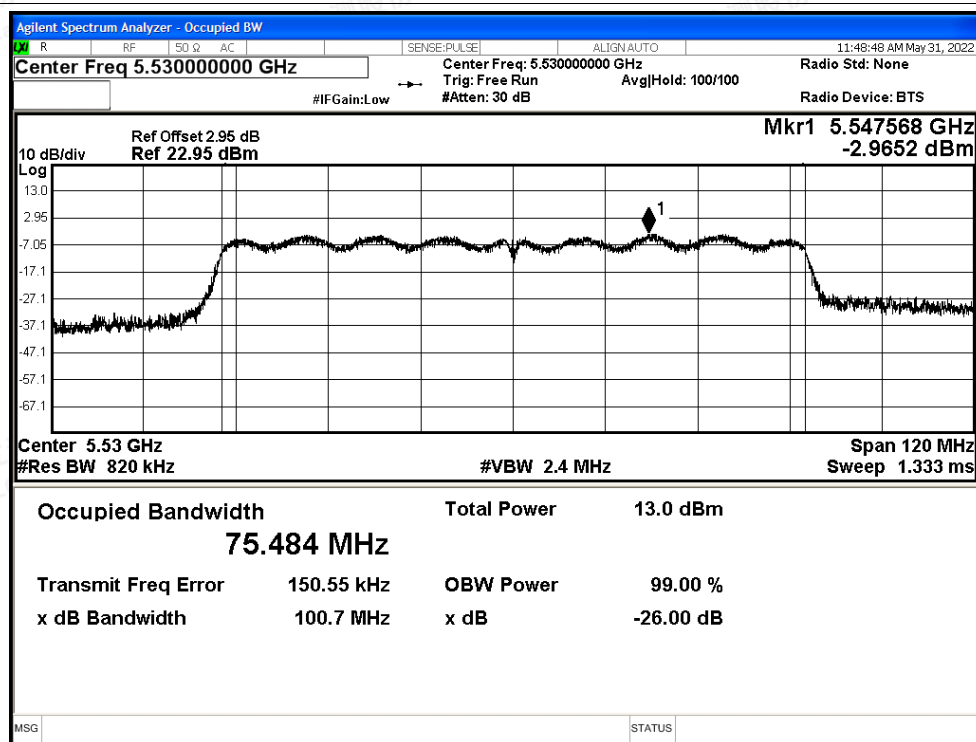
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OBW NVNT ac40 5670MHz Ant1



OBW NVNT ac80 5530MHz Ant1

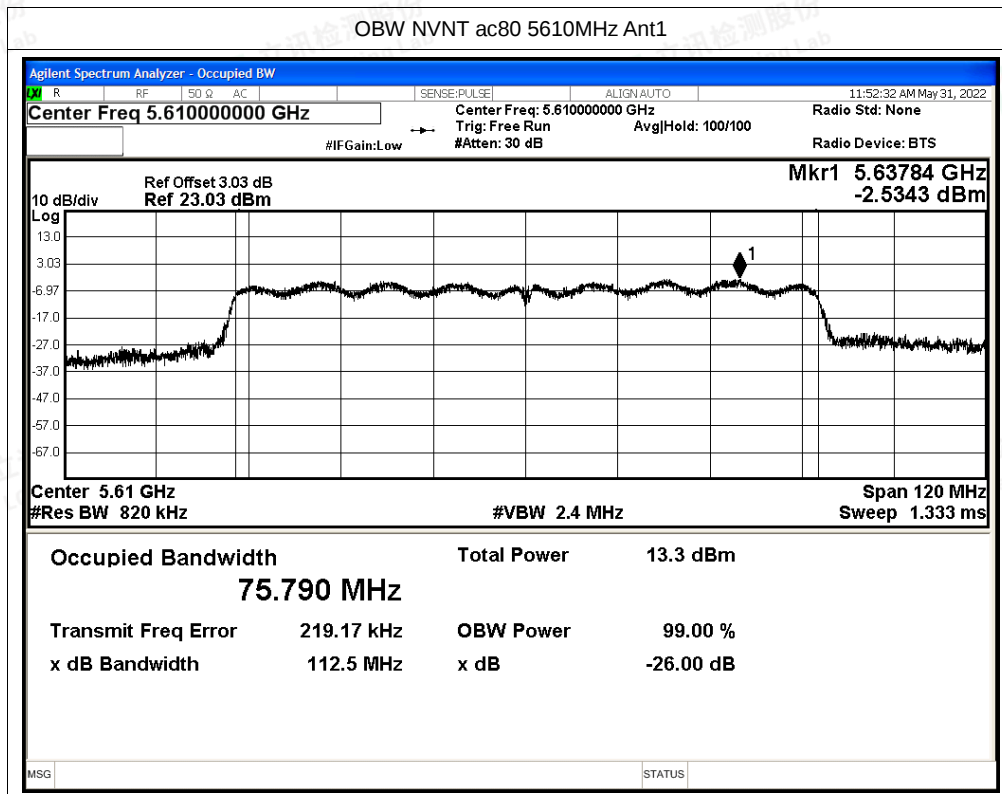


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C.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	6.57	0	6.57	24	Pass
NVNT	a	5580	Ant1	5.22	0	5.22	24	Pass
NVNT	a	5700	Ant1	5.98	0	5.98	24	Pass
NVNT	n20	5500	Ant1	6.99	0	6.99	24	Pass
NVNT	n20	5580	Ant1	6.00	0	6.00	24	Pass
NVNT	n20	5700	Ant1	6.80	0	6.80	24	Pass
NVNT	n40	5510	Ant1	7.36	0	7.36	24	Pass
NVNT	n40	5550	Ant1	6.78	0	6.78	24	Pass
NVNT	n40	5670	Ant1	6.51	0	6.51	24	Pass
NVNT	ac20	5500	Ant1	5.53	0	7.77	24	Pass
NVNT	ac20	5580	Ant1	5.00	0	5.32	24	Pass
NVNT	ac20	5700	Ant1	5.28	0	4.81	24	Pass
NVNT	ac40	5510	Ant1	5.34	0	7.43	24	Pass
NVNT	ac40	5550	Ant1	5.27	0	6.77	24	Pass
NVNT	ac40	5670	Ant1	5.15	0	4.04	24	Pass
NVNT	ac80	5530	Ant1	6.92	0	6.92	24	Pass
NVNT	ac80	5610	Ant1	7.09	0	7.09	24	Pass

Note: 5610MHz data apply to FCC.



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C.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	5500	Ant1	-5.55	0	-5.55	11	Pass
NVNT	a	5580	Ant1	-6.96	0	-6.96	11	Pass
NVNT	a	5700	Ant1	-8.47	0	-8.47	11	Pass
NVNT	n20	5500	Ant1	-5.76	0	-5.76	11	Pass
NVNT	n20	5580	Ant1	-7.4	0	-7.4	11	Pass
NVNT	n20	5700	Ant1	-7.45	0	-7.45	11	Pass
NVNT	n40	5510	Ant1	-8.44	0	-8.44	11	Pass
NVNT	n40	5550	Ant1	-9.53	0	-9.53	11	Pass
NVNT	n40	5670	Ant1	-10.53	0	-10.53	11	Pass
NVNT	ac20	5500	Ant1	-6.43	0	-6.43	11	Pass
NVNT	ac20	5580	Ant1	-7.39	0	-7.39	11	Pass
NVNT	ac20	5700	Ant1	-8.01	0	-8.01	11	Pass
NVNT	ac40	5510	Ant1	-8.35	0	-8.35	11	Pass
NVNT	ac40	5550	Ant1	-8.96	0	-8.96	11	Pass
NVNT	ac40	5670	Ant1	-11.18	0	-11.18	11	Pass
NVNT	ac80	5530	Ant1	-10.93	0	-10.93	11	Pass
NVNT	ac80	5610	Ant1	-10.67	0	-10.67	11	Pass

Note: 5610MHz data apply to FCC.



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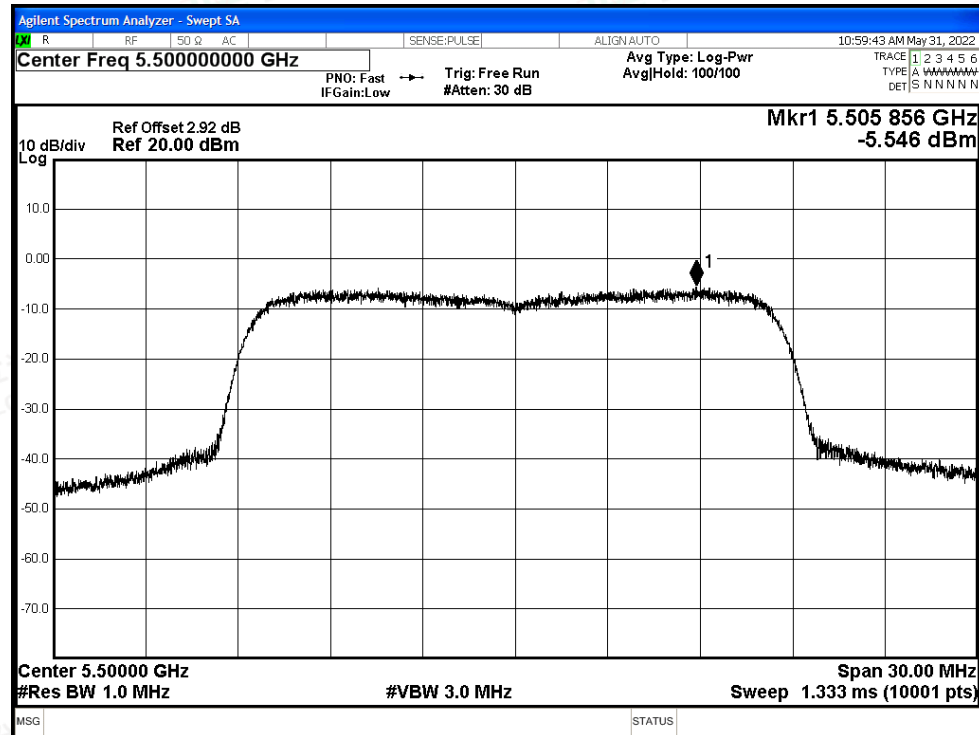
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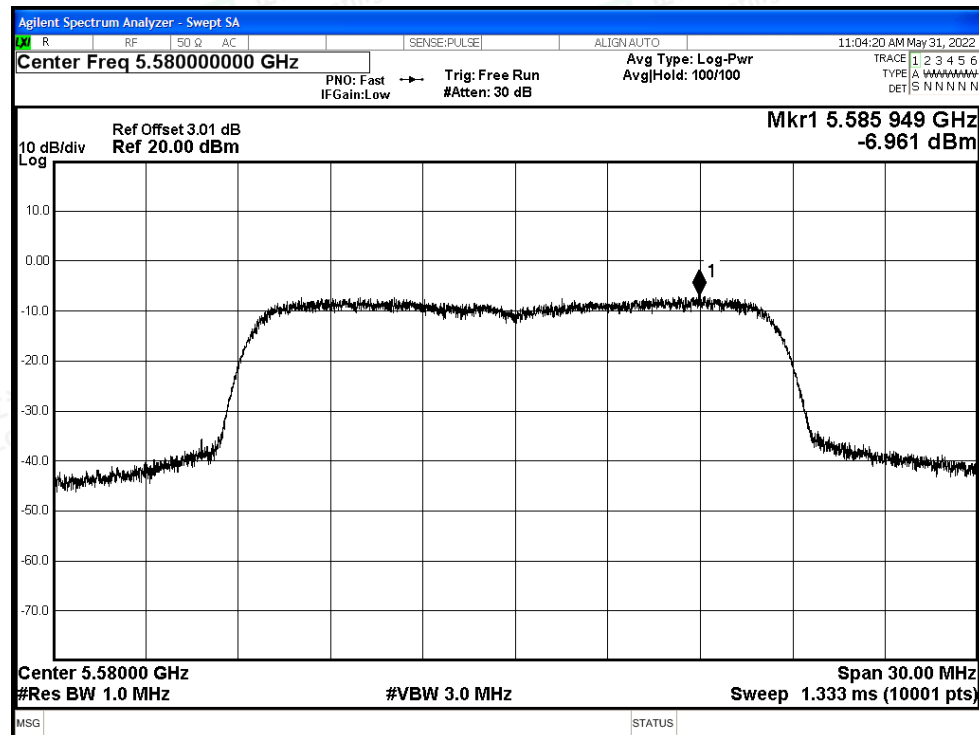


Test Graphs

PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1



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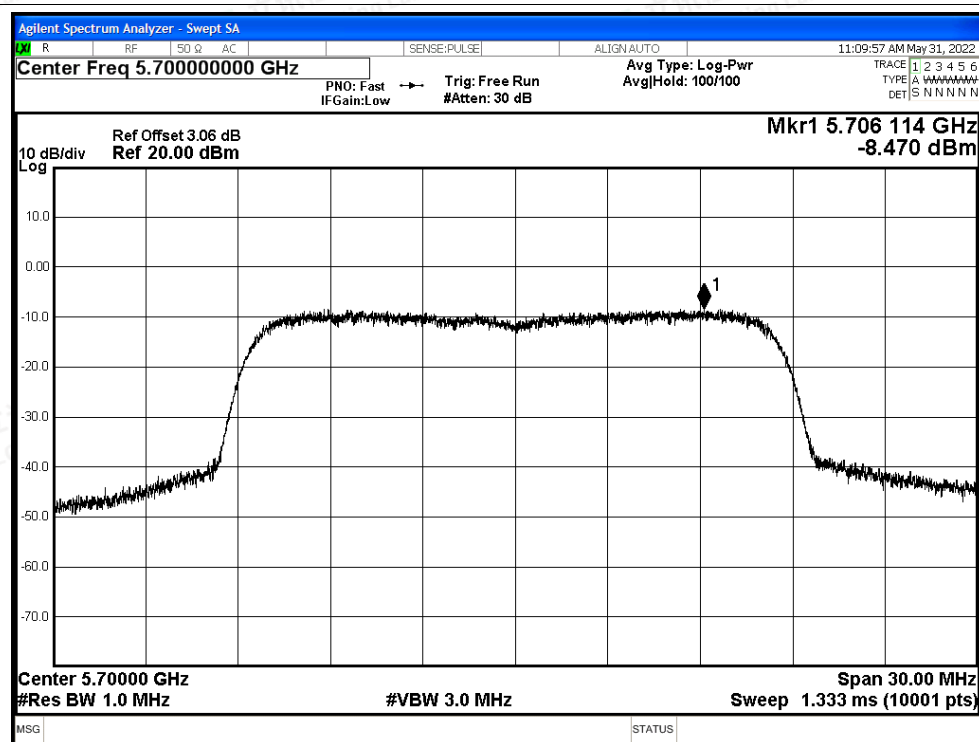
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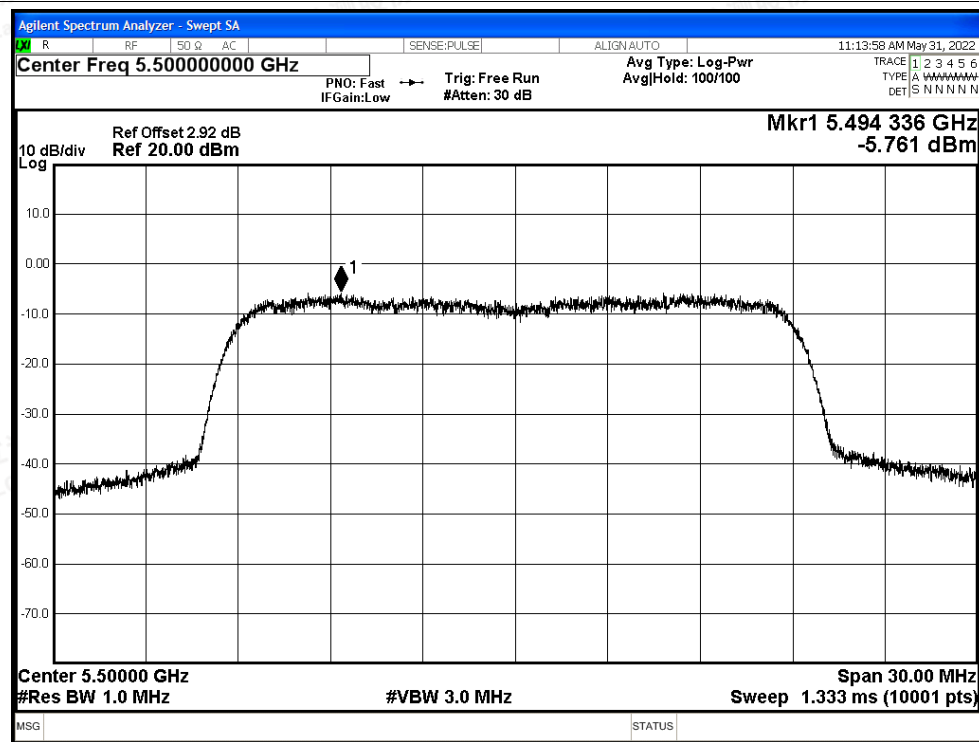
Scan code to check authenticity



PSD NVNT a 5700MHz Ant1



PSD NVNT n20 5500MHz Ant1

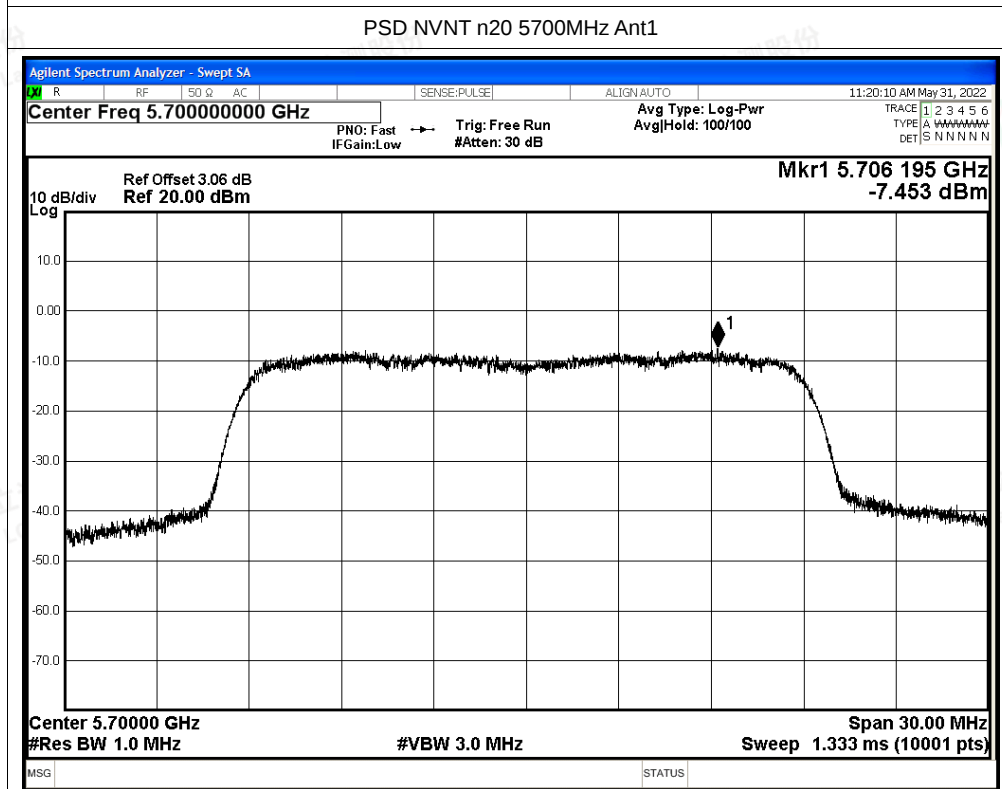
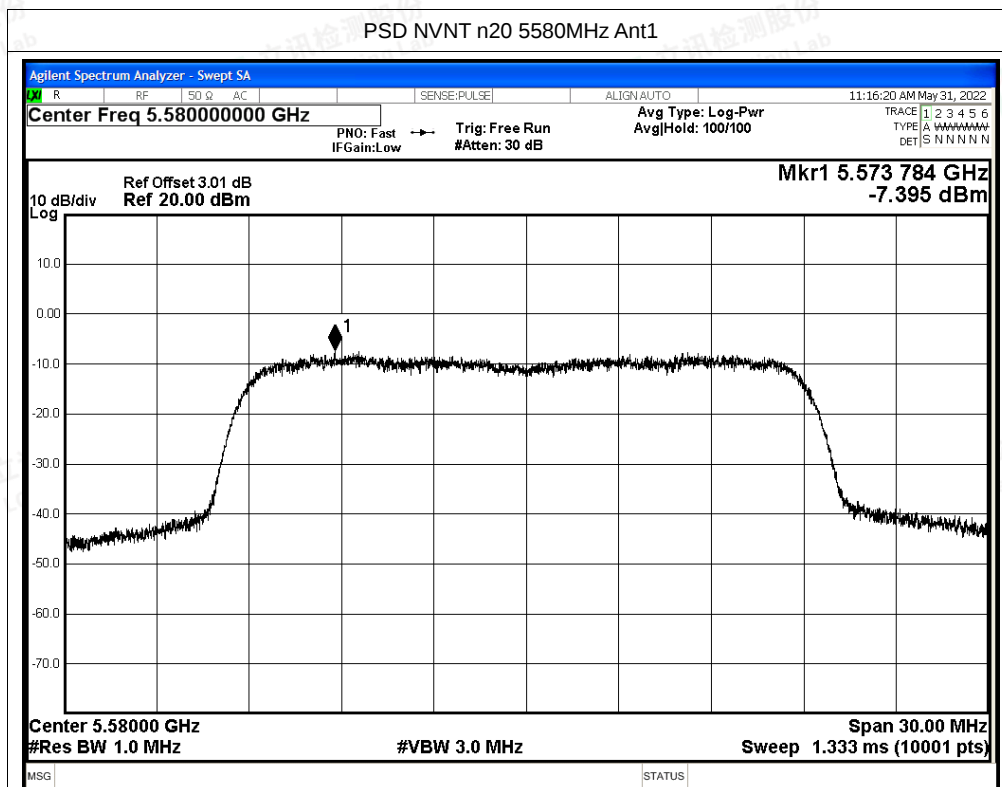


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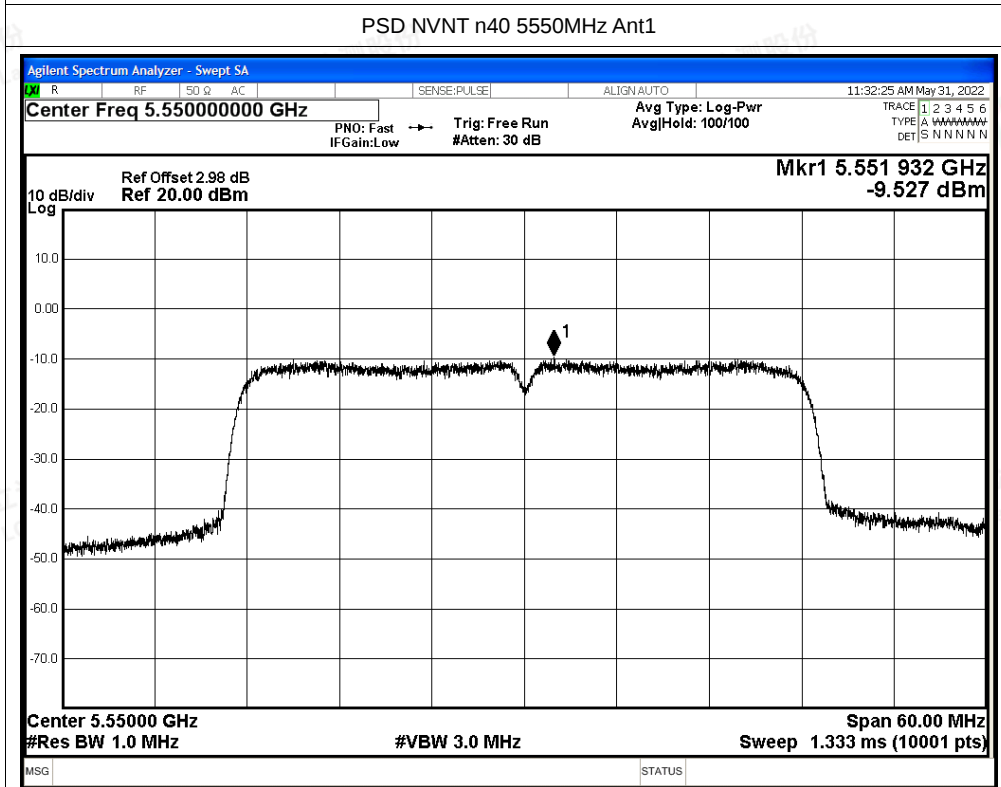
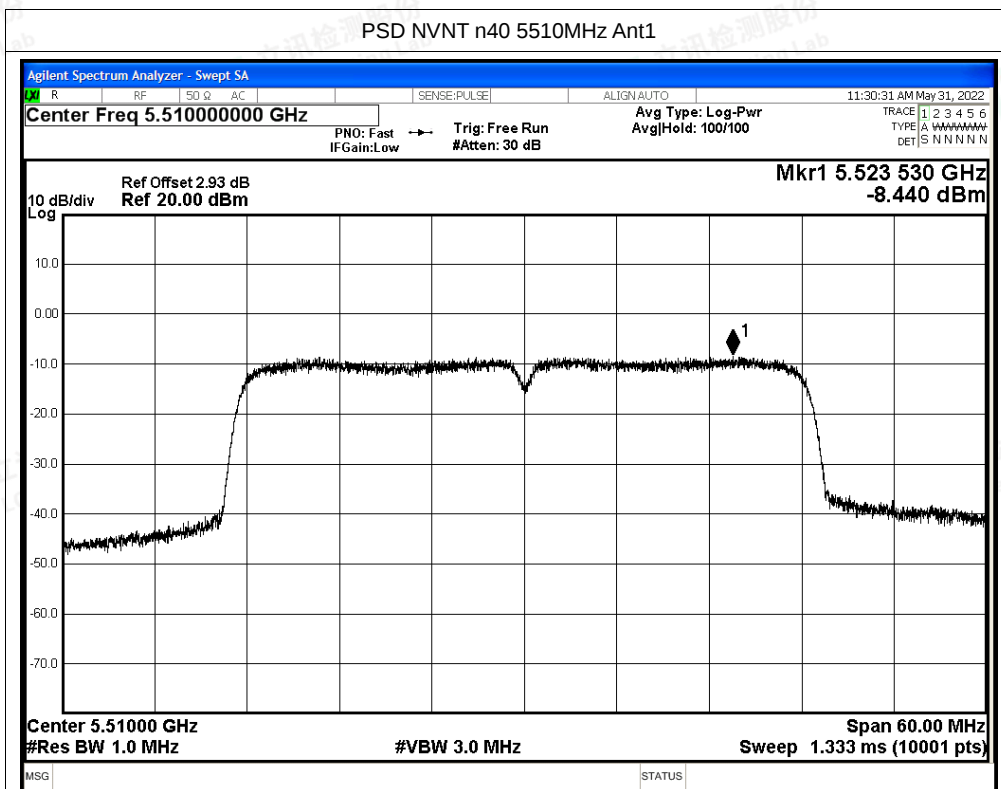


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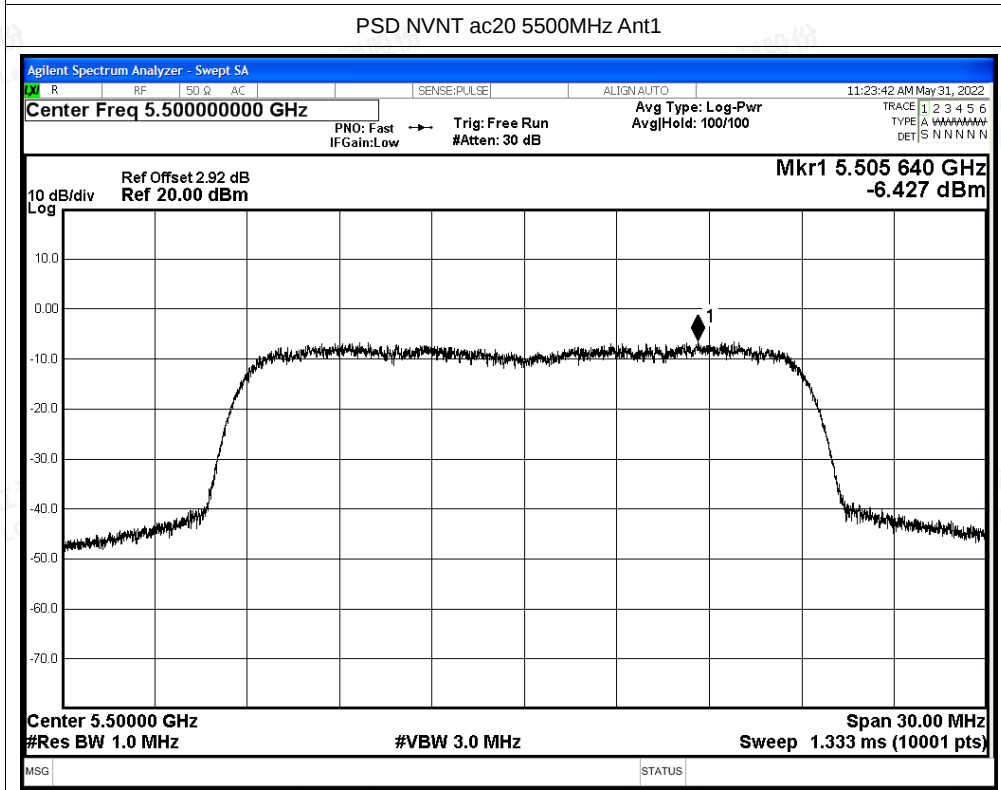
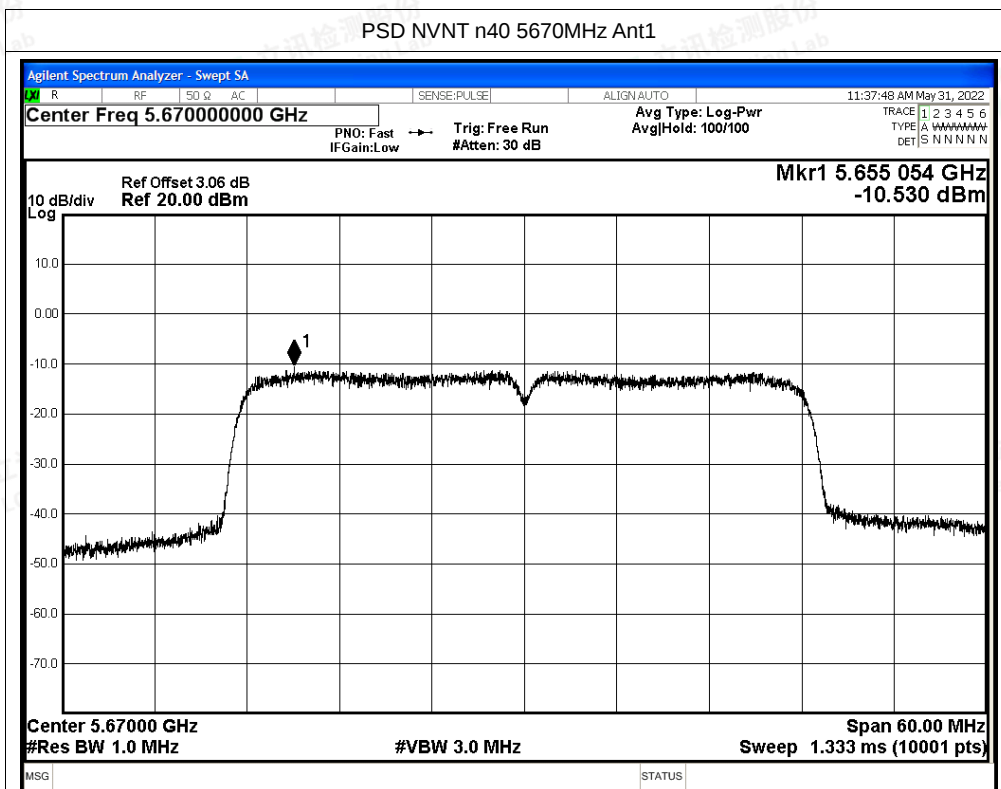


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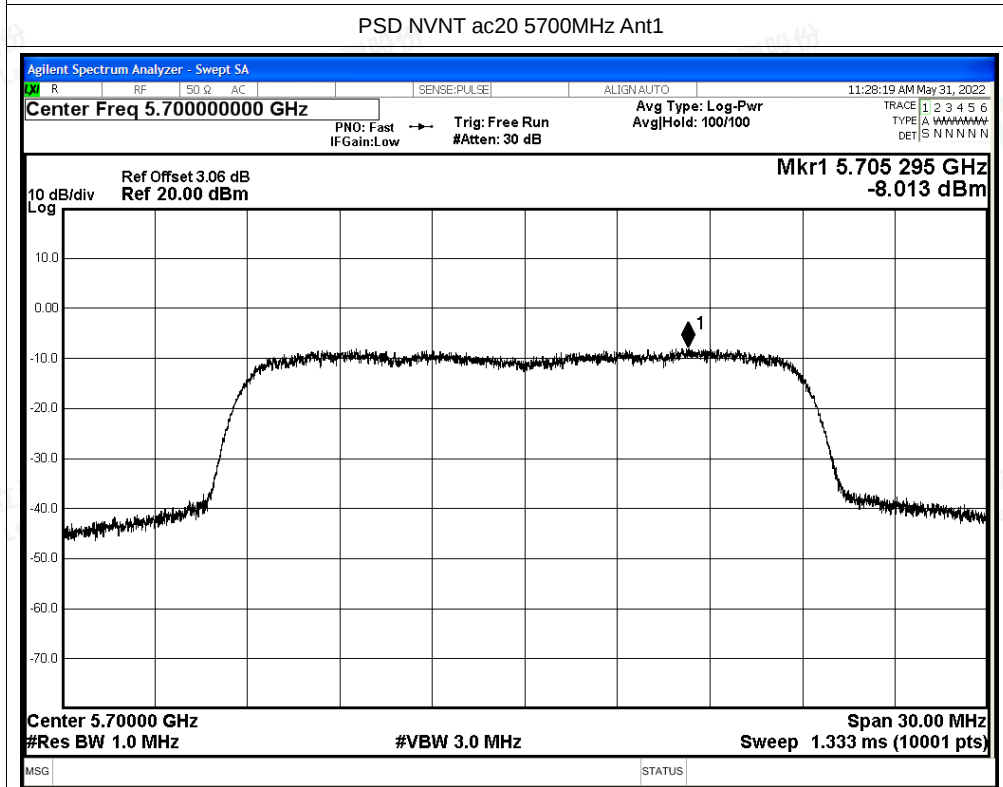
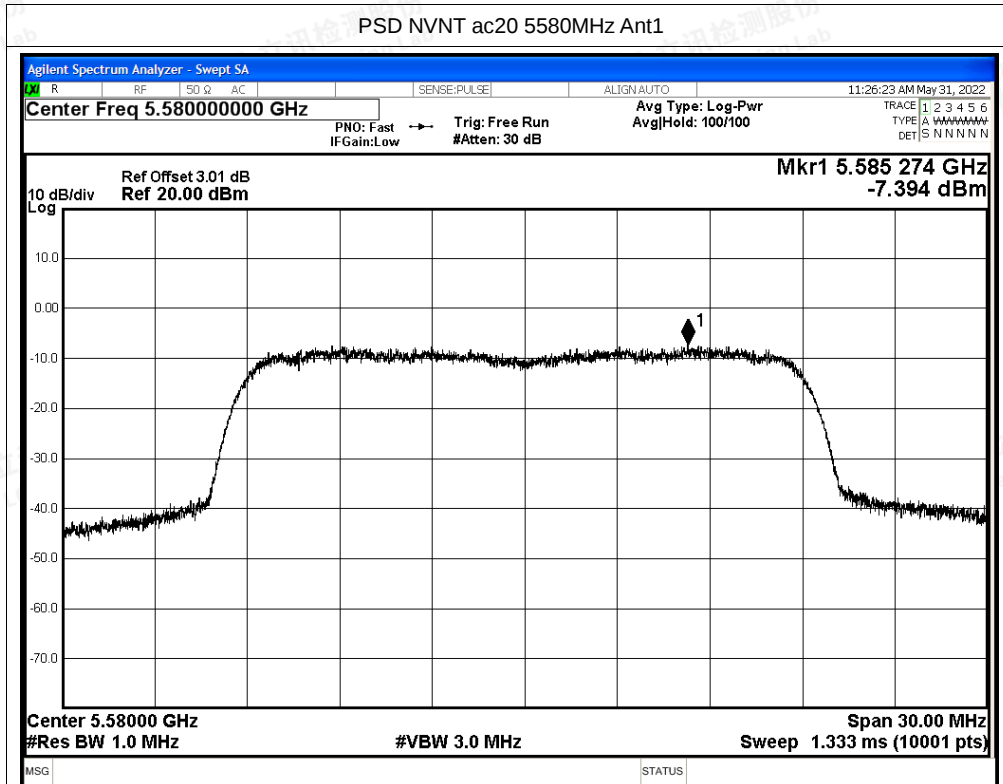


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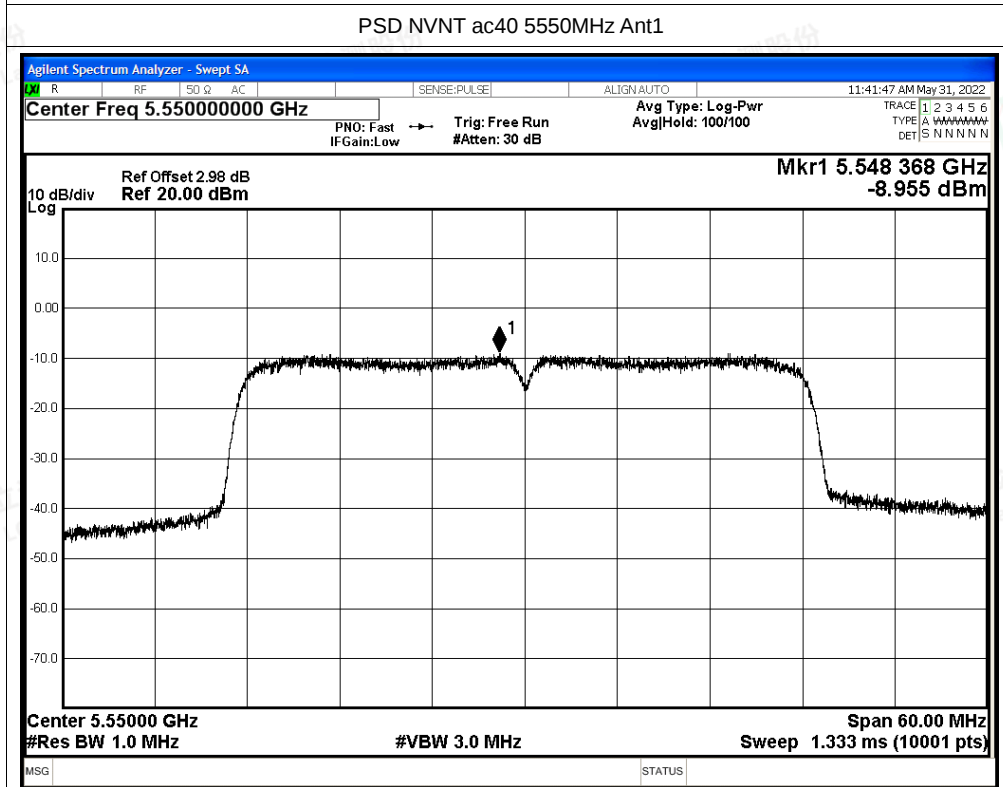
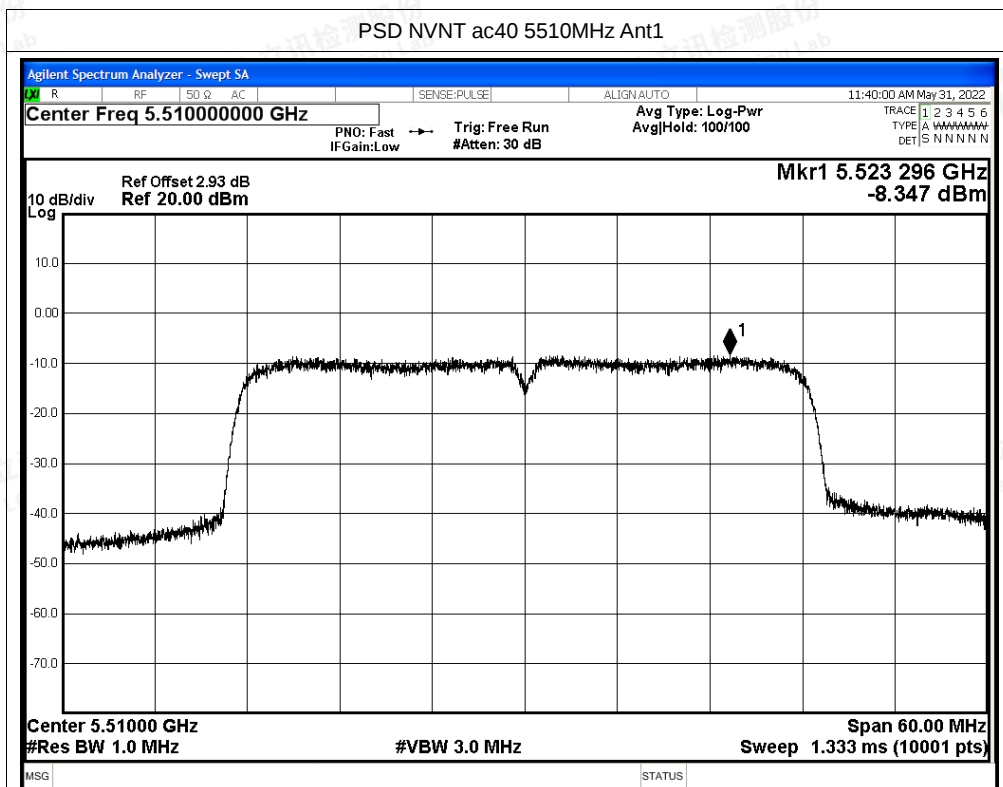


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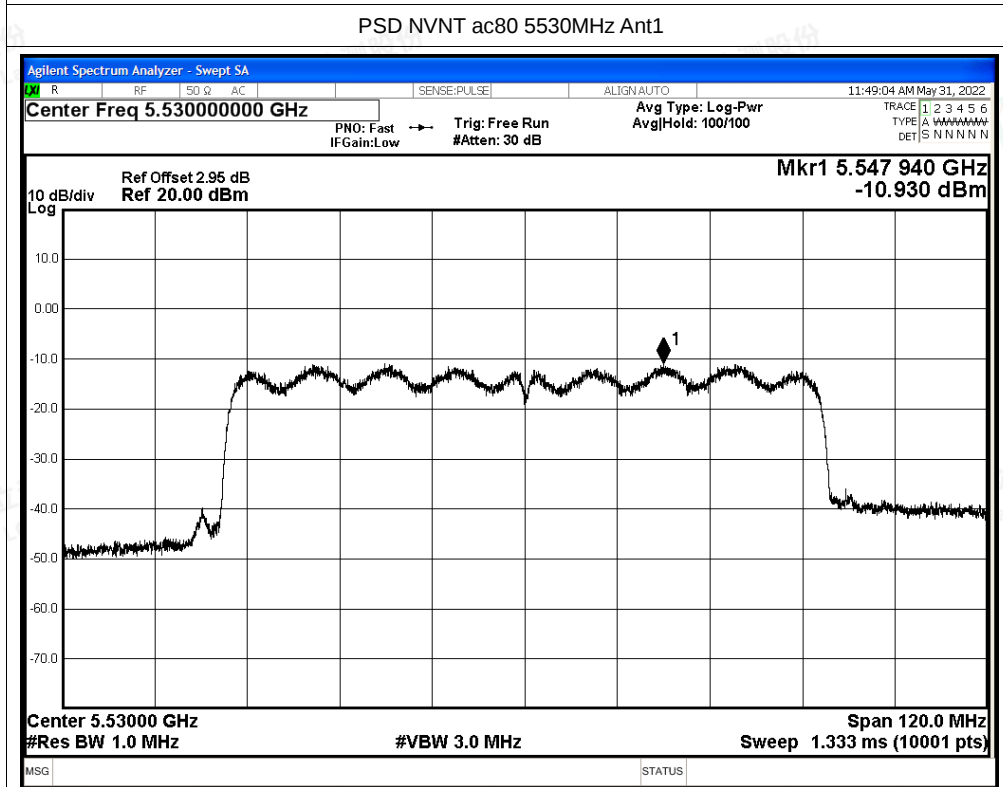
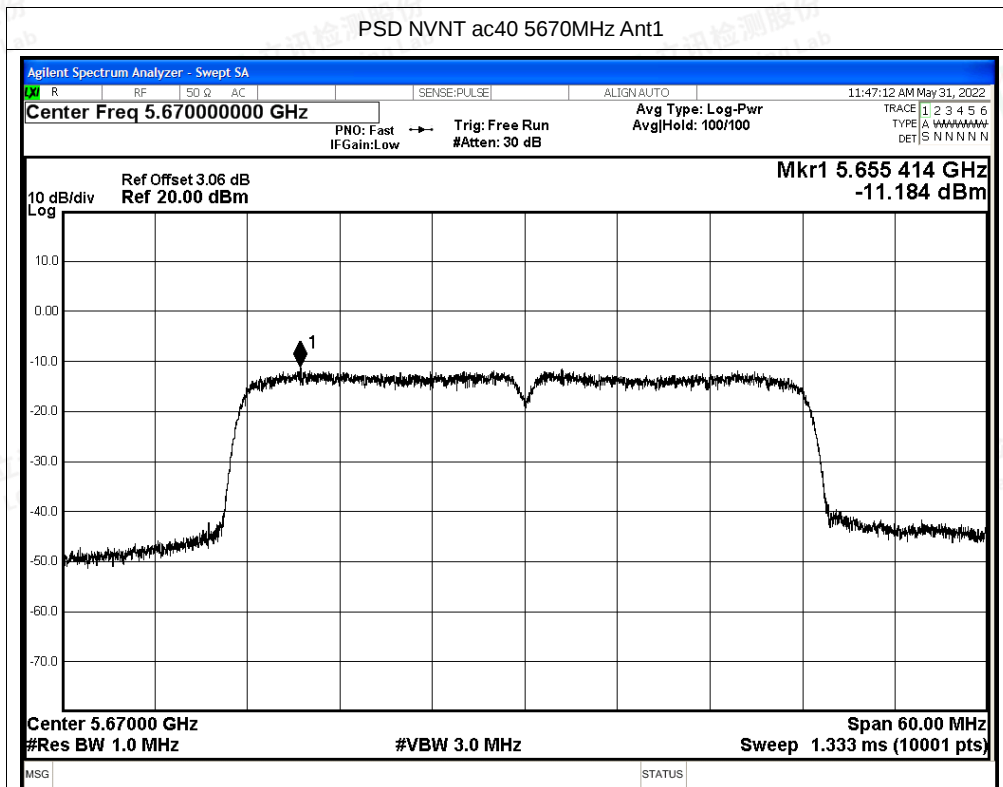


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PSD NVNT ac80 5610MHz Ant1

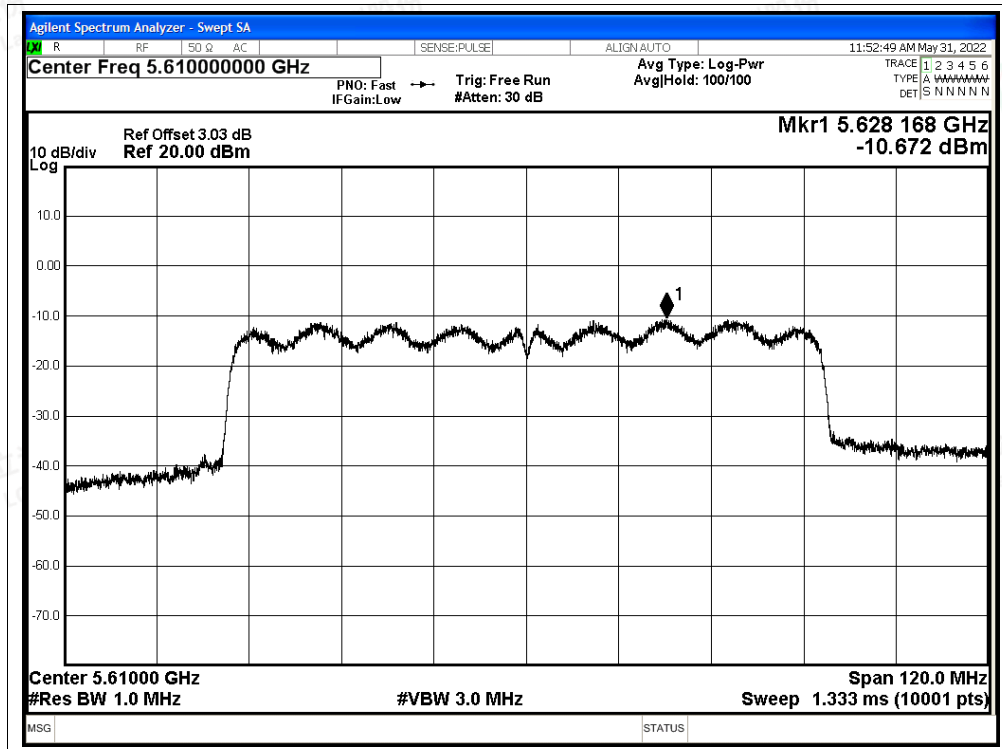


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C.5 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-49.09	2	48.14	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-59.48	2	37.75	Average	54	Pass
NVNT	a	5500	Ant1	5464.8	-39.77	2	57.46	Peak	68.2	Pass
NVNT	a	5500	Ant1	5468.8	-58.27	2	38.96	Average	54	Pass
NVNT	a	5500	Ant1	5470	-43.45	2	53.78	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-58.29	2	38.94	Average	54	Pass
NVNT	a	5700	Ant1	5725	-38.85	2	58.38	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-56.8	2	40.43	Average	54	Pass
NVNT	a	5700	Ant1	5735	-48.89	2	48.34	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-59.5	2	37.73	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-49.81	2	47.42	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-59.31	2	37.92	Average	54	Pass
NVNT	n20	5500	Ant1	5467.4	-39.16	2	58.07	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5469.6	-58.55	2	38.68	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-45.5	2	51.73	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-58.63	2	38.6	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-34.86	2	62.37	Peak	68.2	Pass



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NVNT	n20	5700	Ant1	5725	-53.44	2	43.79	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-41.88	2	55.35	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-58.43	2	38.8	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-36.66	2	60.57	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-51.94	2	45.29	Average	54	Pass
NVNT	n40	5510	Ant1	5466.6	-32.85	2	64.38	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5469.6	-48.75	2	48.48	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-35.96	2	61.27	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-48.92	2	48.31	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-49.82	2	47.41	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-59.11	2	38.12	Average	54	Pass
NVNT	n40	5670	Ant1	5726	-47.3	2	49.93	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5727.6	-58.86	2	38.37	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-51.24	2	45.99	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-59.33	2	37.9	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-49.28	2	47.95	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5460	-59.22	2	38.01	Average	54	Pass
NVNT	ac20	5500	Ant1	5466.6	-36.72	2	60.51	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5469.8	-57.92	2	39.31	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-41.08	2	56.15	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-58	2	39.23	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-36.24	2	60.99	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-53.31	2	43.92	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-45.94	2	51.29	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-58.59	2	38.64	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-38.67	2	58.56	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-51.96	2	45.27	Average	54	Pass
NVNT	ac40	5510	Ant1	5462	-32.11	2	65.12	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5468.2	-48.69	2	48.54	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-32.16	2	65.07	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-49.15	2	48.08	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-46.87	2	50.36	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-57.6	2	39.63	Average	54	Pass
NVNT	ac40	5670	Ant1	5725.8	-42.79	2	54.44	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5726.6	-57.33	2	39.9	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-47.45	2	49.78	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-58.61	2	38.62	Average	54	Pass
NVNT	ac80	5530	Ant1	5460	-40.79	2	56.44	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5460	-47.91	2	49.32	Average	54	Pass
NVNT	ac80	5530	Ant1	5462.2	-35.21	2	62.02	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5463.8	-47.39	2	49.84	Average	54	Pass



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NVNT	ac80	5530	Ant1	5470	-37.87	2	59.36	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5470	-47.53	2	49.7	Average	54	Pass
NVNT	ac80	5610	Ant1	5725	-40.71	2	56.52	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5725	-50.87	2	46.36	Average	54	Pass
NVNT	ac80	5610	Ant1	5730.695	-36.3	2	60.93	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5727.415	-50.57	2	46.66	Average	54	Pass
NVNT	ac80	5610	Ant1	5735	-41.88	2	55.35	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5735	-52.14	2	45.09	Average	54	Pass

Note: 5610MHz data apply to FCC.

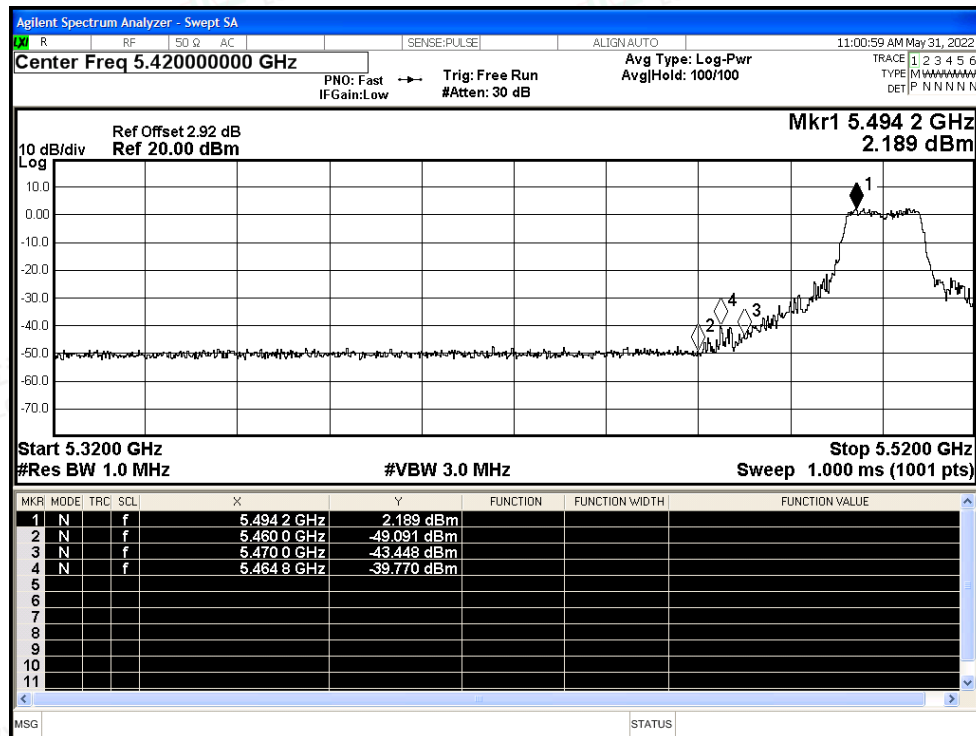


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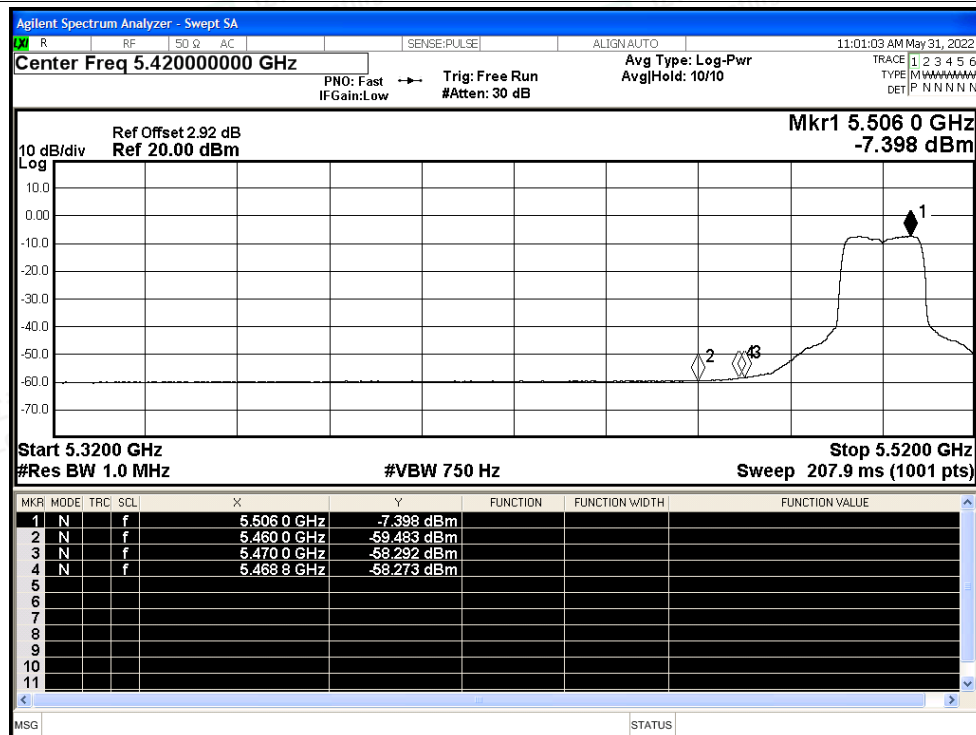


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak



Restrict Band NVNT a 5500MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

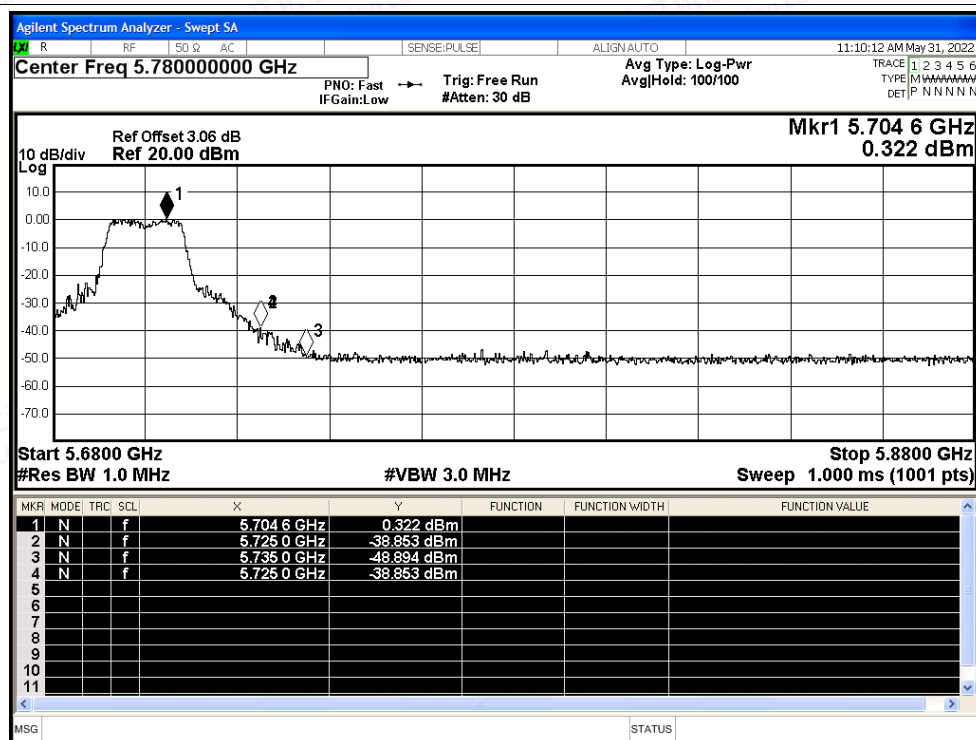
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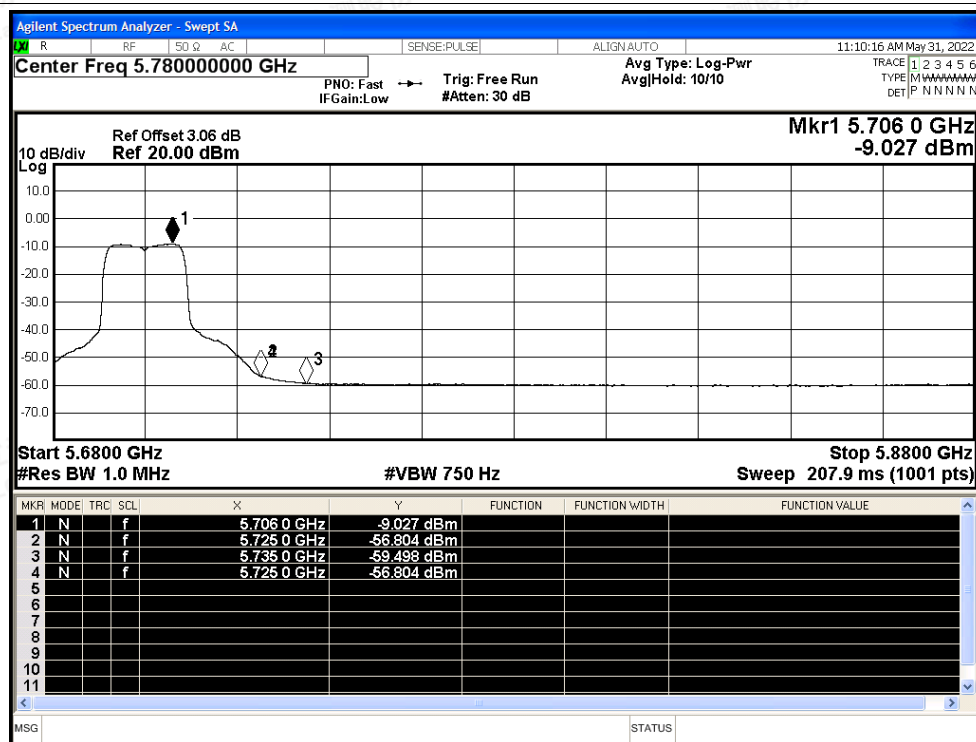
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Restrict Band NVNT a 5700MHz Ant1 Peak



Restrict Band NVNT a 5700MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

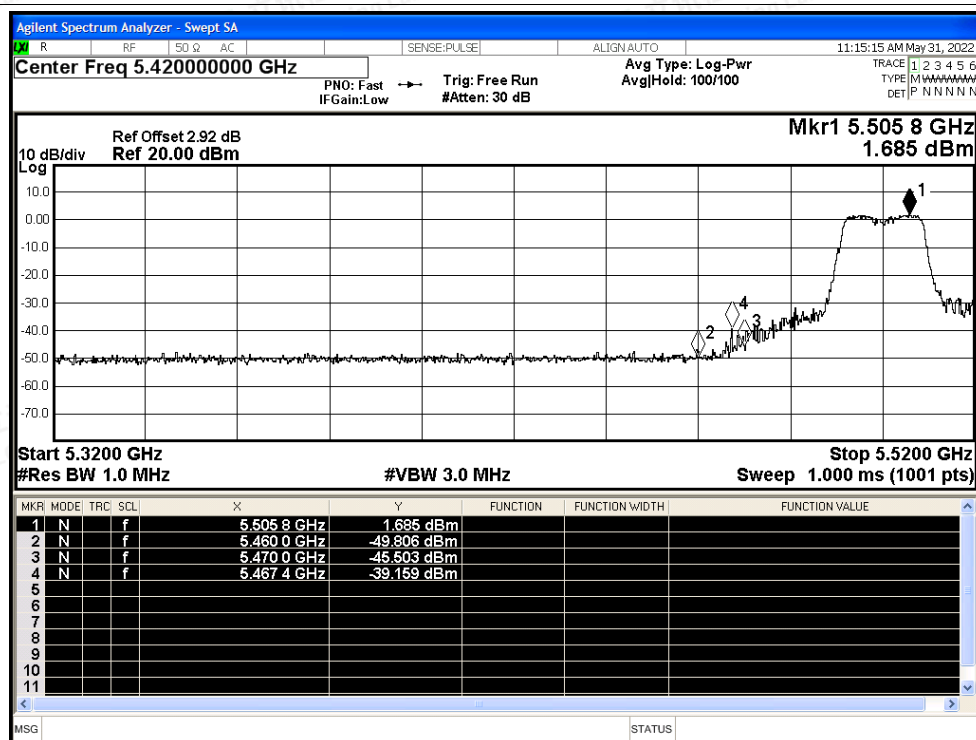
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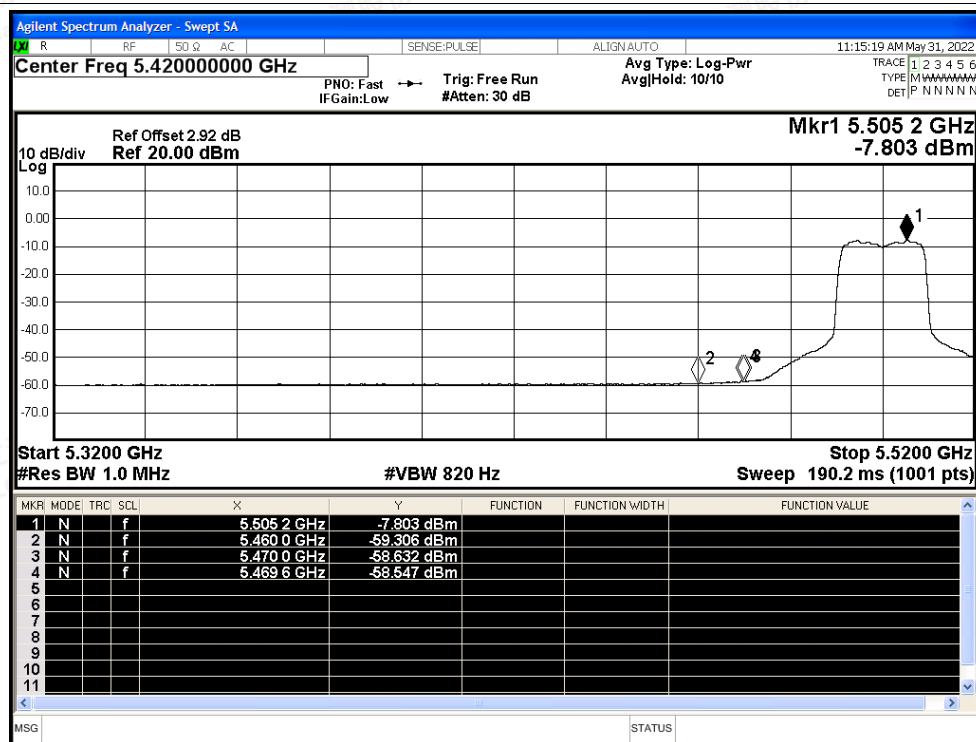
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Restrict Band NVNT n20 5500MHz Ant1 Peak



Restrict Band NVNT n20 5500MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

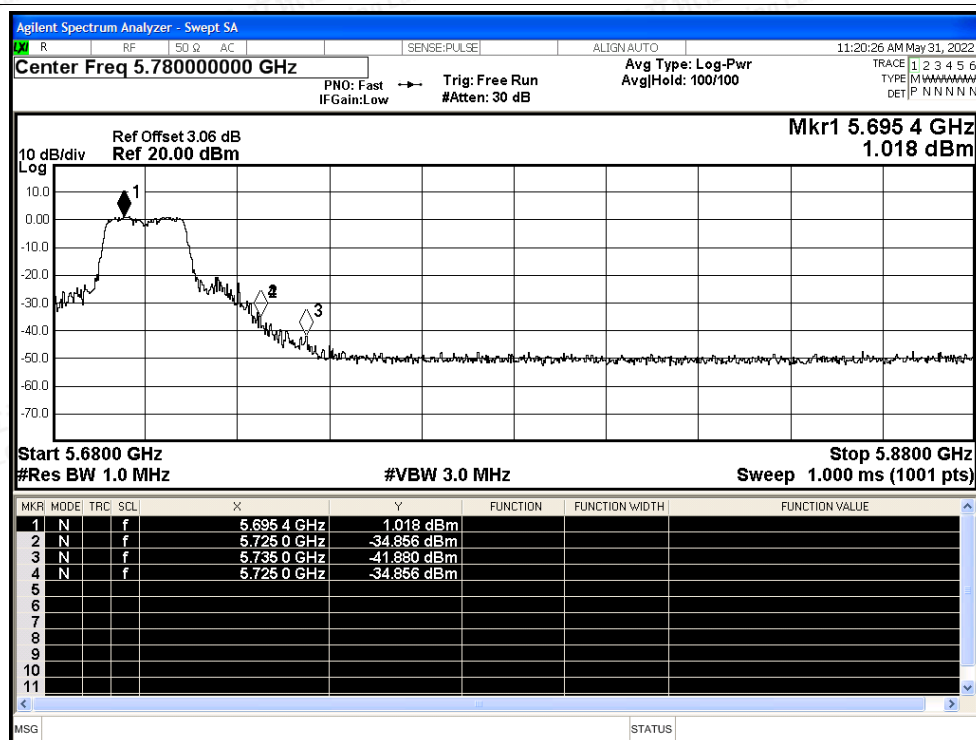
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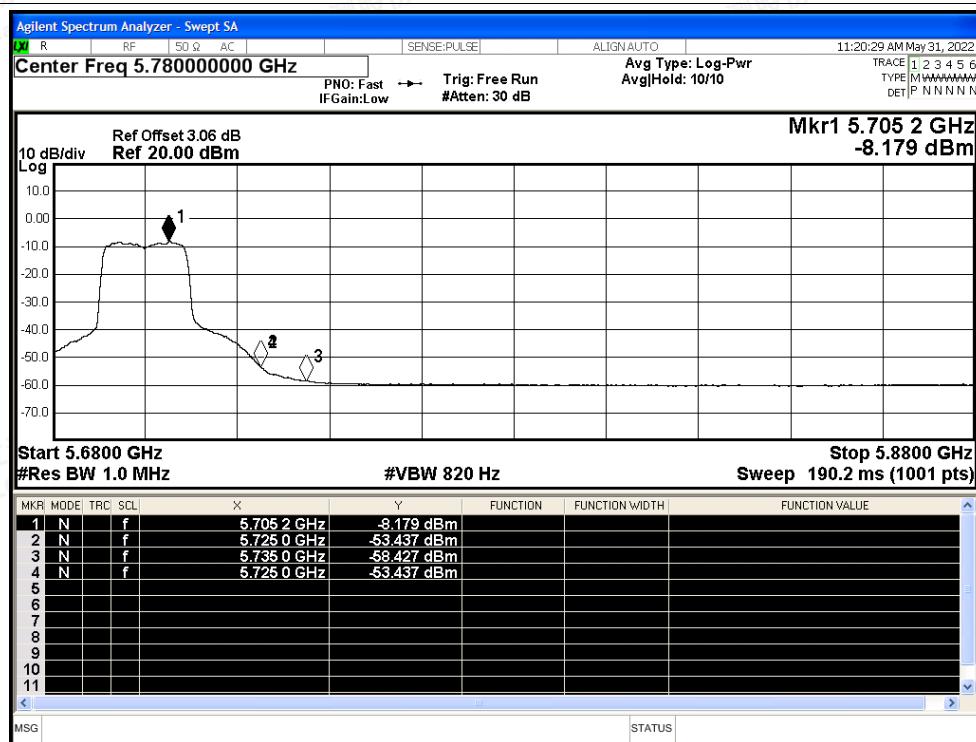
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Restrict Band NVNT n20 5700MHz Ant1 Peak



Restrict Band NVNT n20 5700MHz Ant1 Average



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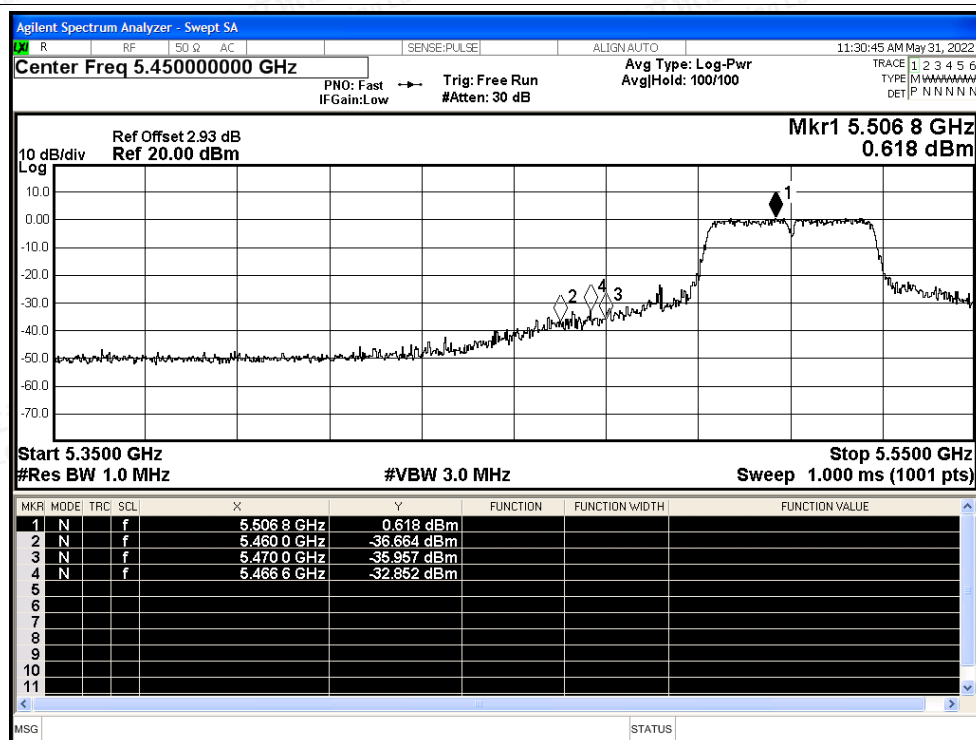
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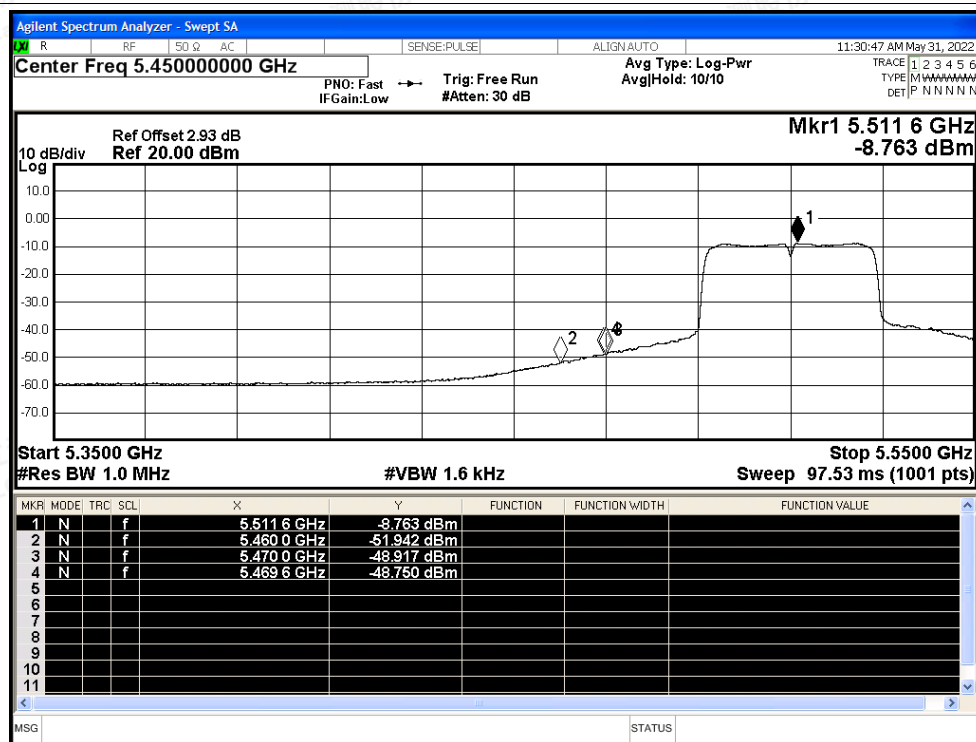
Scan code to check authenticity



Restrict Band NVNT n40 5510MHz Ant1 Peak



Restrict Band NVNT n40 5510MHz Ant1 Average



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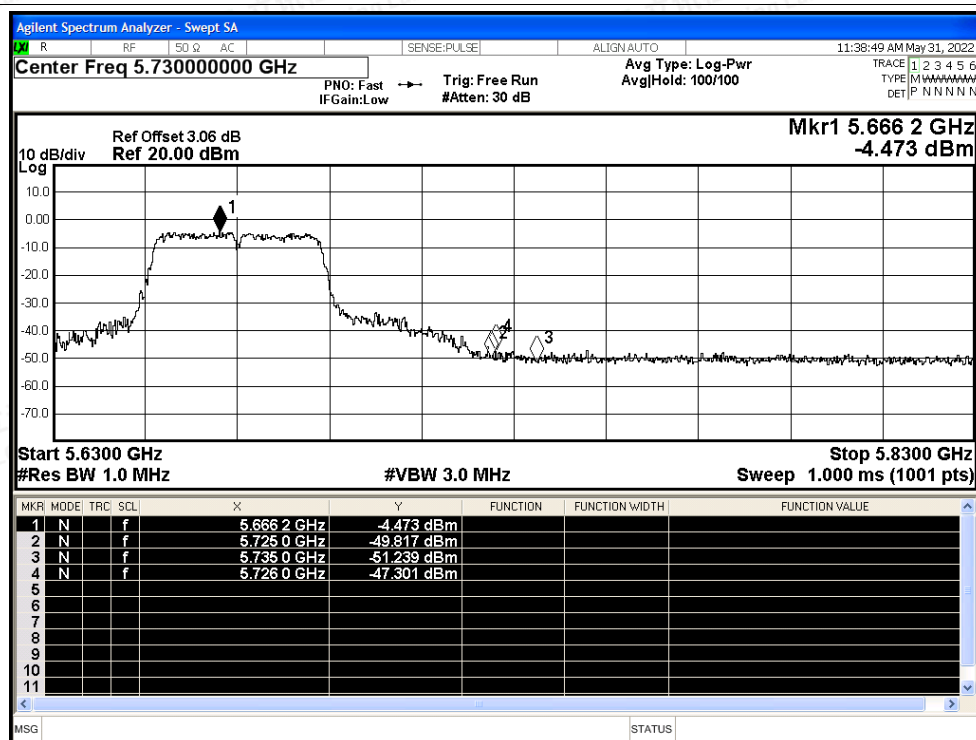
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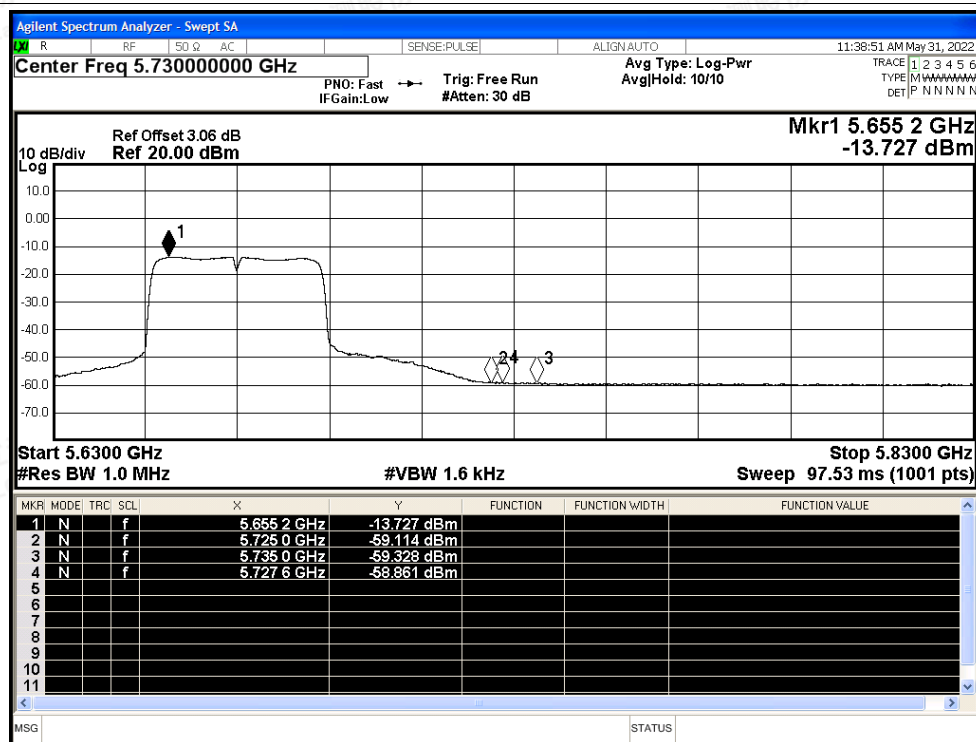
Scan code to check authenticity



Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average



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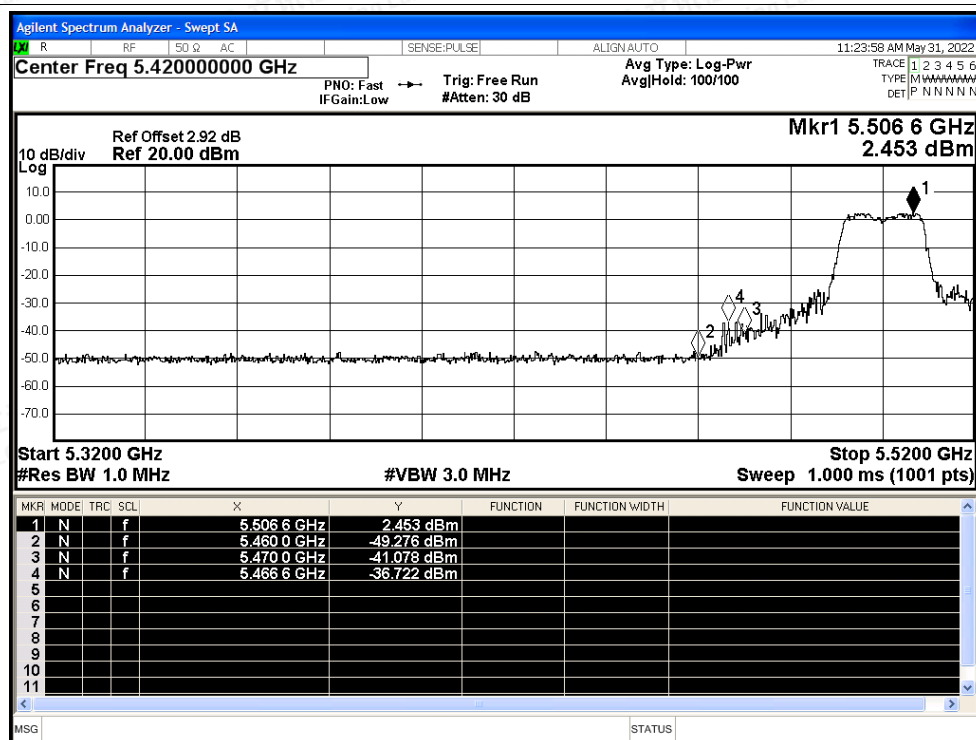
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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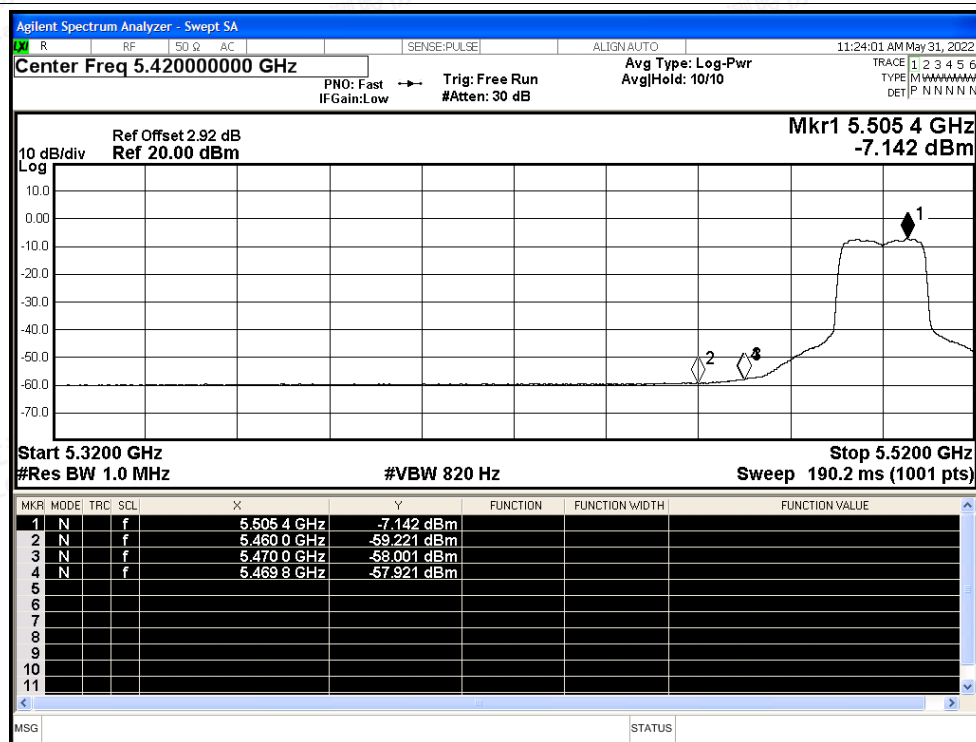
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Restrict Band NVNT ac20 5500MHz Ant1 Peak



Restrict Band NVNT ac20 5500MHz Ant1 Average



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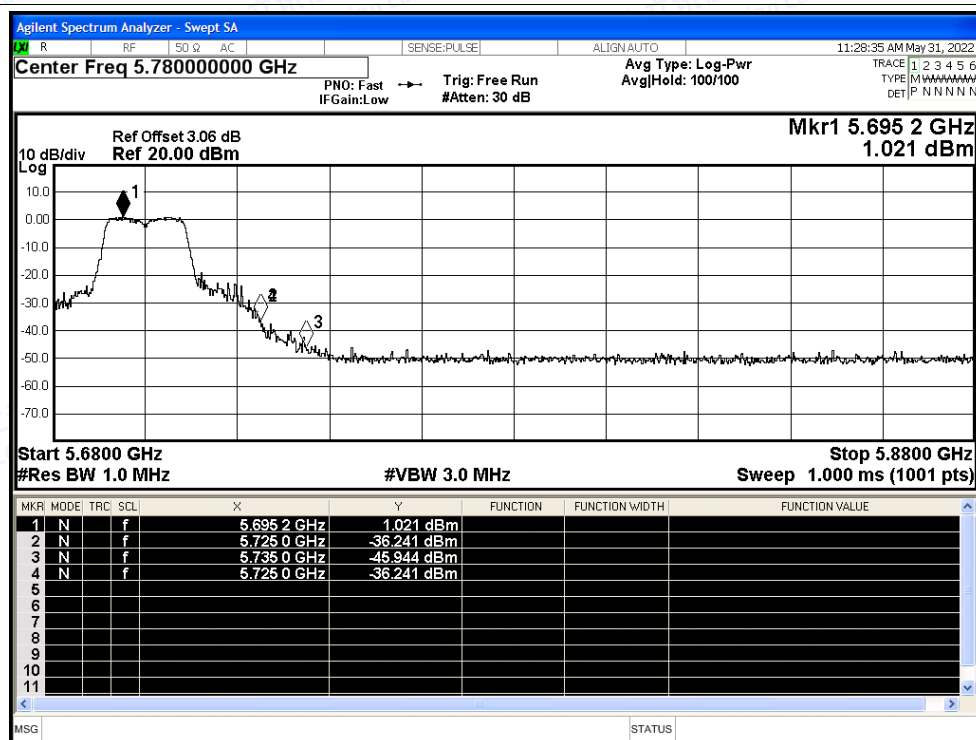
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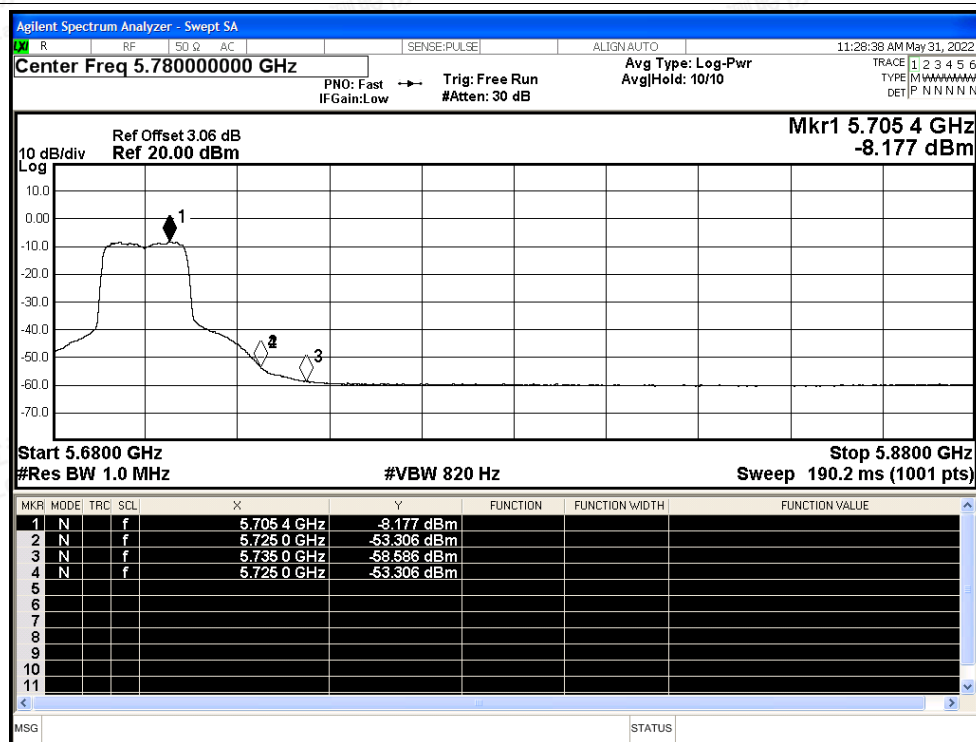
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Restrict Band NVNT ac20 5700MHz Ant1 Peak



Restrict Band NVNT ac20 5700MHz Ant1 Average



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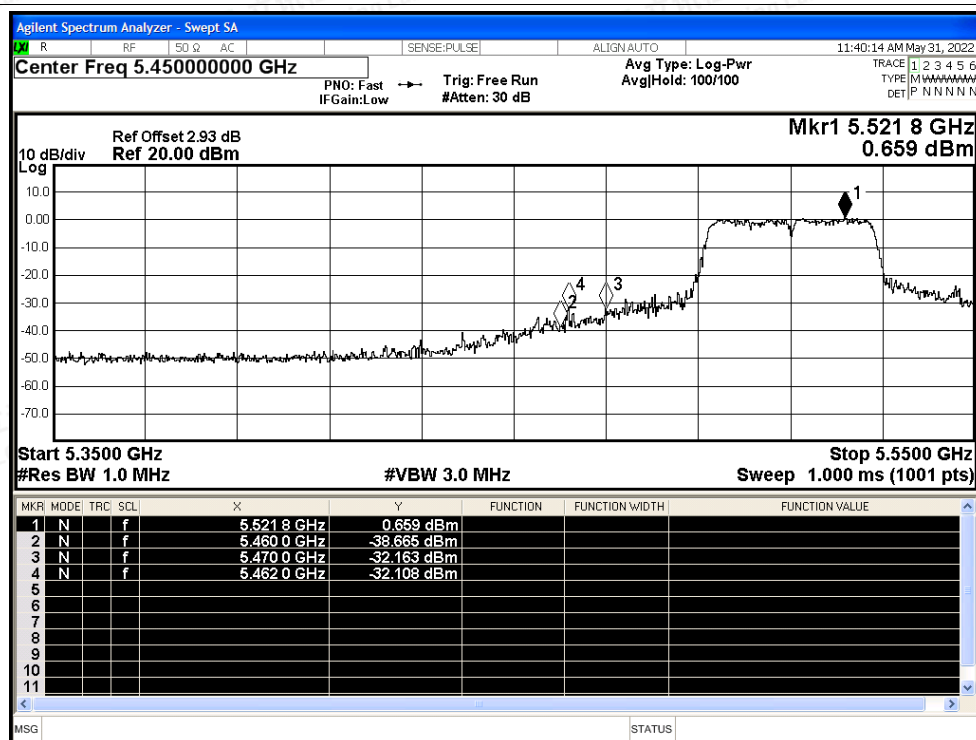
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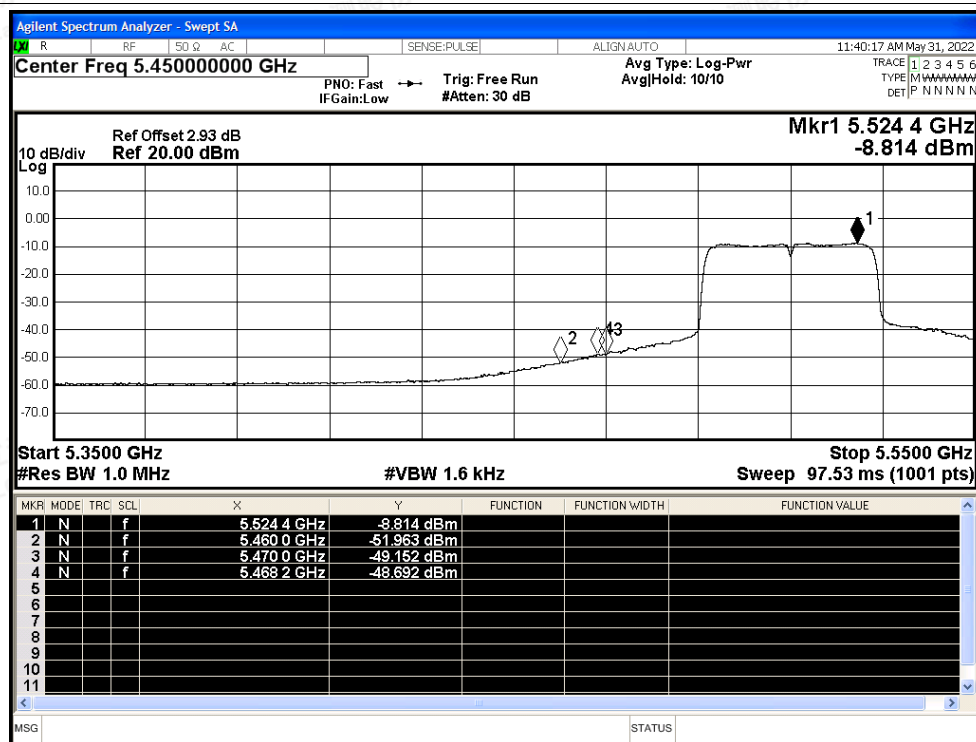
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Restrict Band NVNT ac40 5510MHz Ant1 Peak



Restrict Band NVNT ac40 5510MHz Ant1 Average



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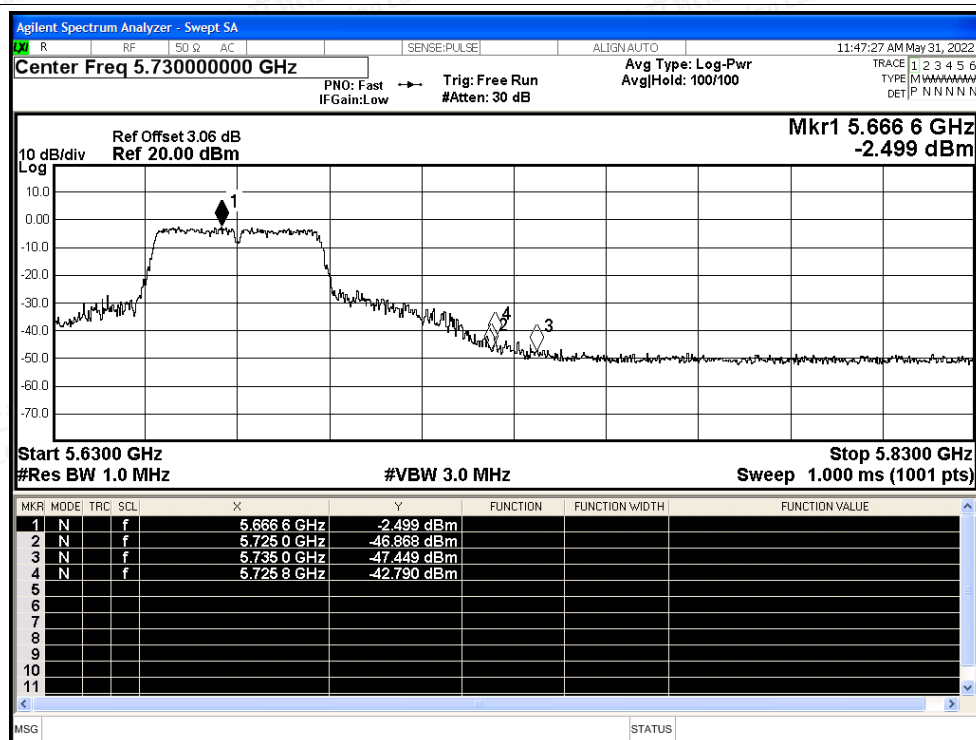
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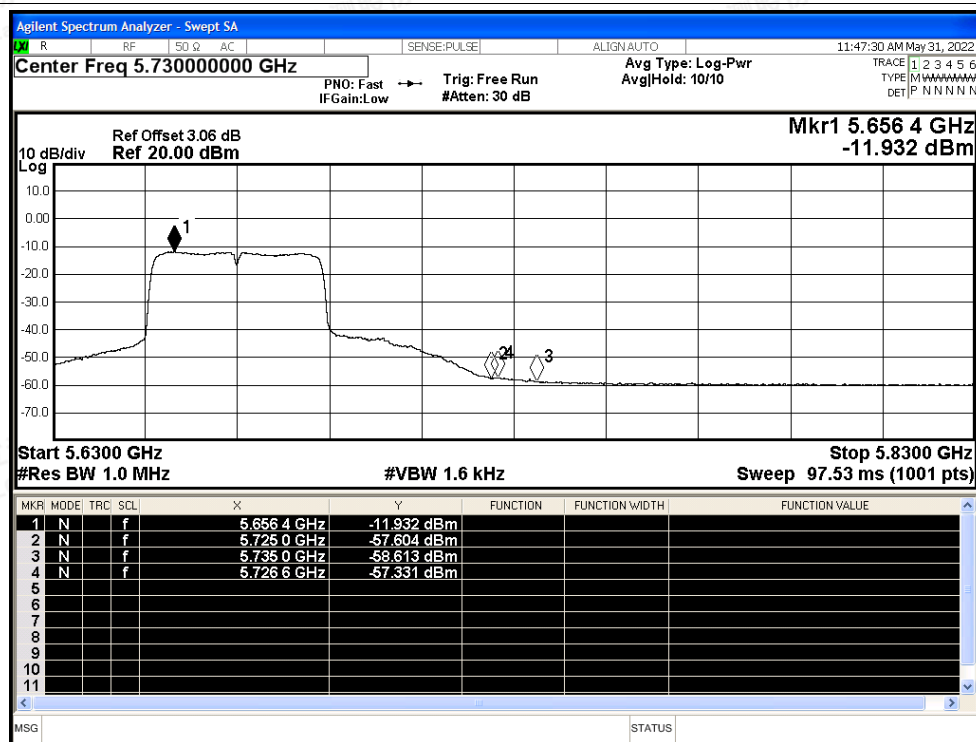
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Restrict Band NVNT ac40 5670MHz Ant1 Peak



Restrict Band NVNT ac40 5670MHz Ant1 Average



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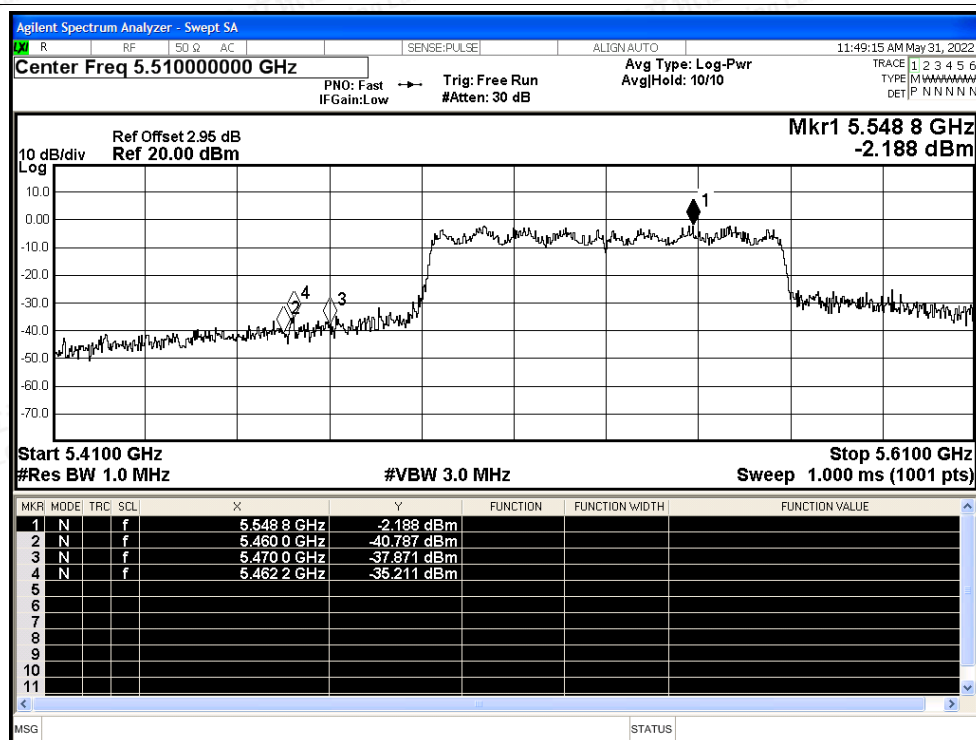
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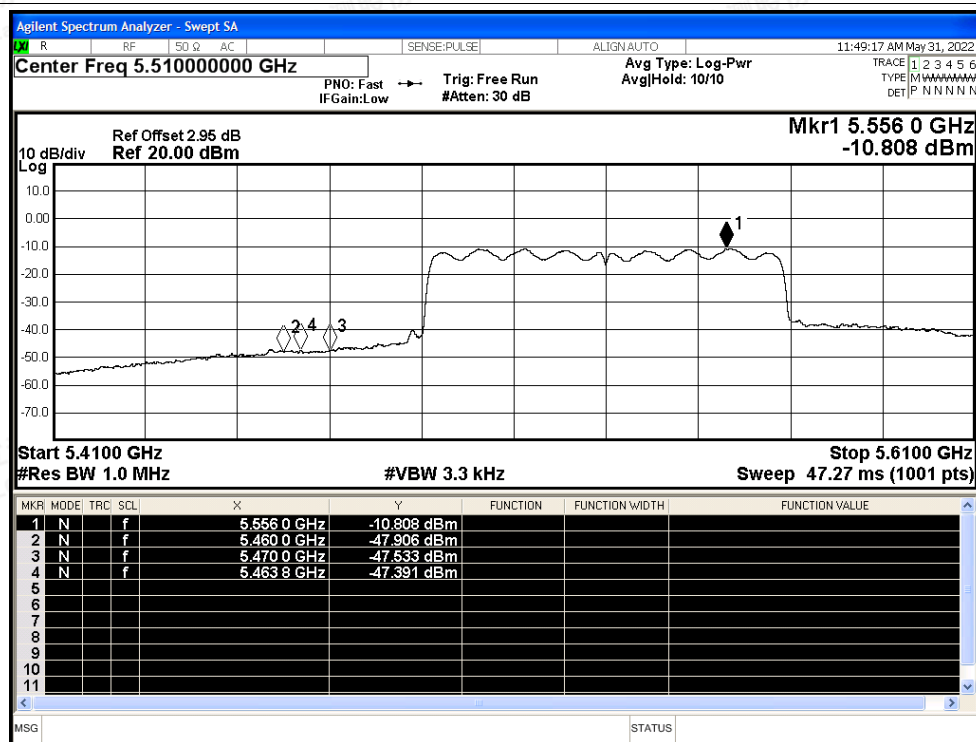
Scan code to check authenticity



Restrict Band NVNT ac80 5530MHz Ant1 Peak



Restrict Band NVNT ac80 5530MHz Ant1 Average



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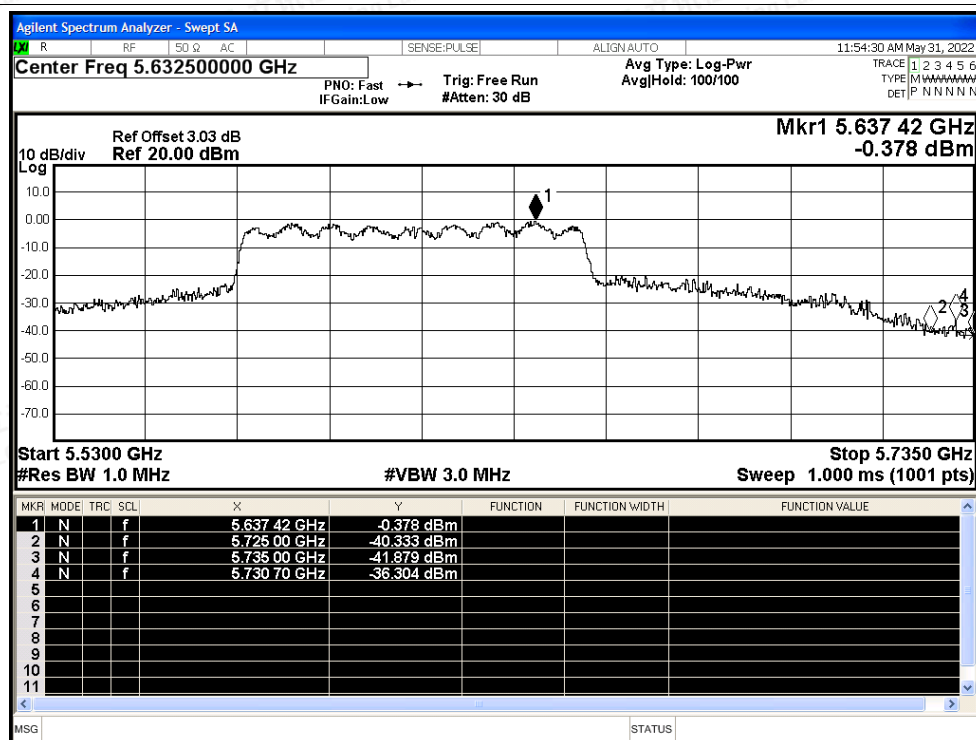
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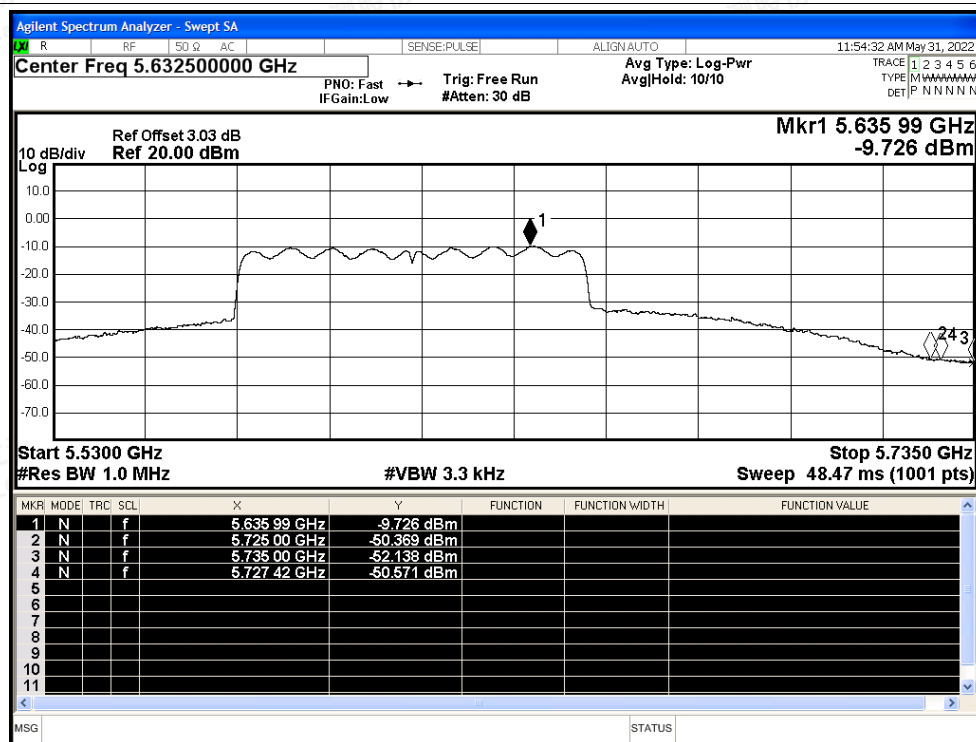
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Restrict Band NVNT ac80 5610MHz Ant1 Peak



Restrict Band NVNT ac80 5610MHz 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	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	ac20	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
NVNT	ac40	5510	Ant1	5510	0	0	25	Pass
NVNT	ac40	5550	Ant1	5550	0	0	25	Pass
NVNT	ac40	5670	Ant1	5670	0	0	25	Pass
NVNT	ac80	5530	Ant1	5530	0	0	25	Pass
NVNT	ac80	5610	Ant1	5610	0	0	25	Pass

Note: 5610MHz data apply to FCC.



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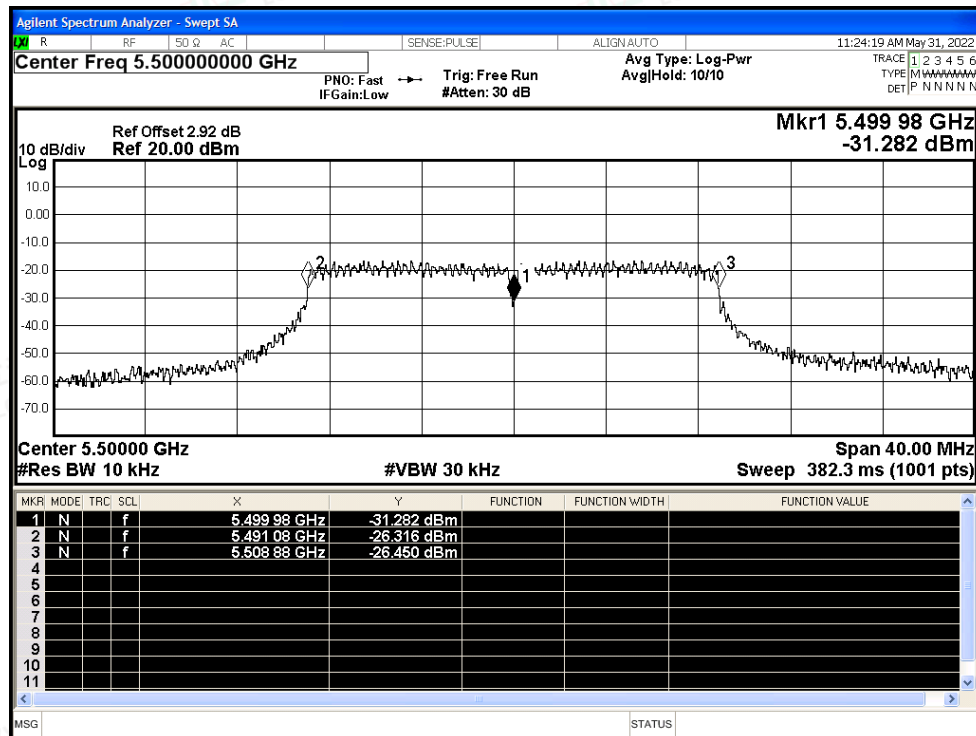
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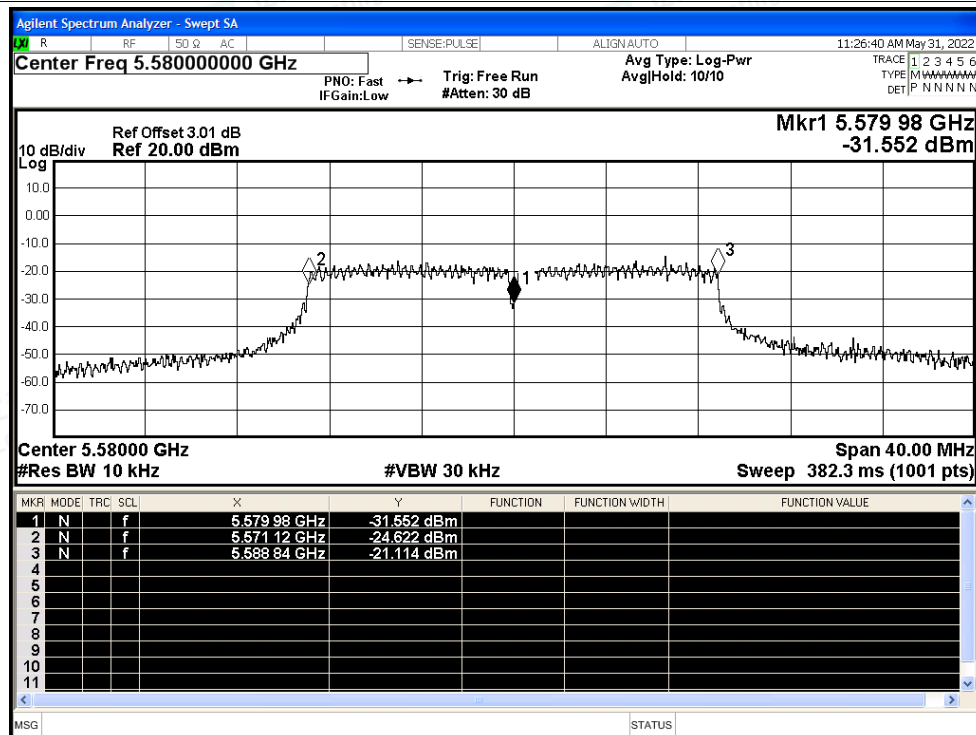


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant1



Freq. Stability NVNT ac20 5580MHz Ant1



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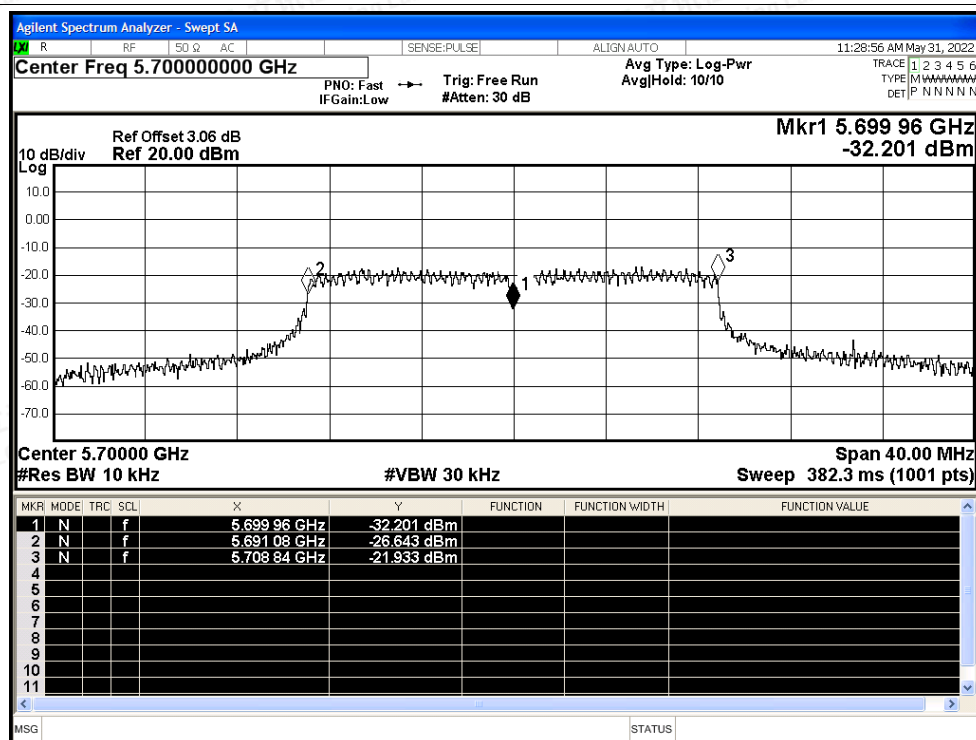
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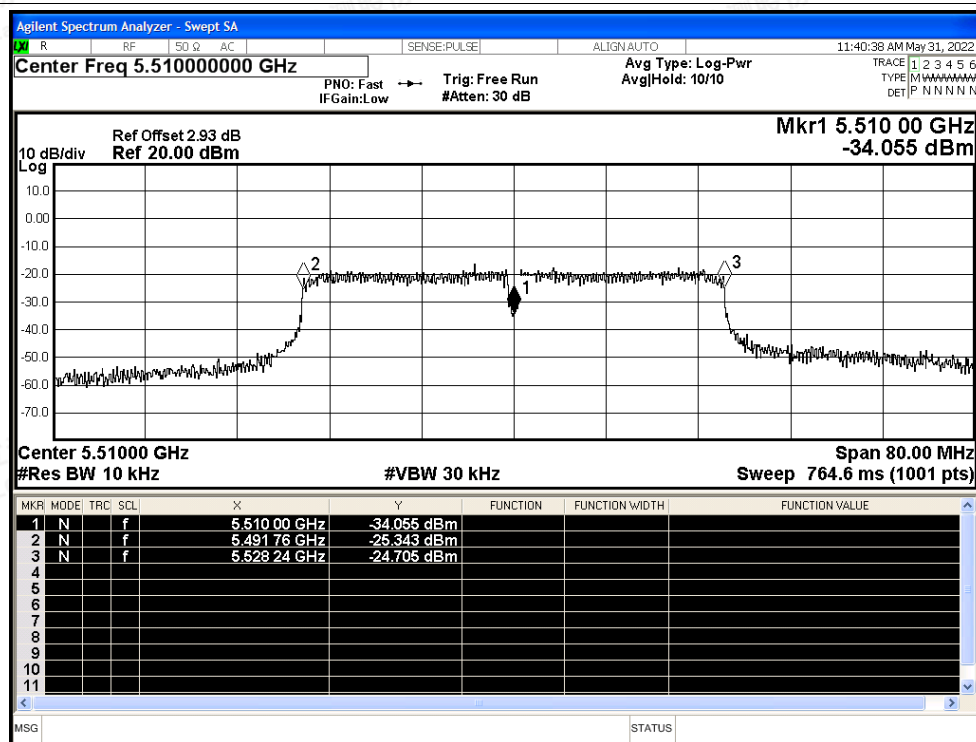
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Freq. Stability NVNT ac20 5700MHz Ant1



Freq. Stability NVNT ac40 5510MHz Ant1



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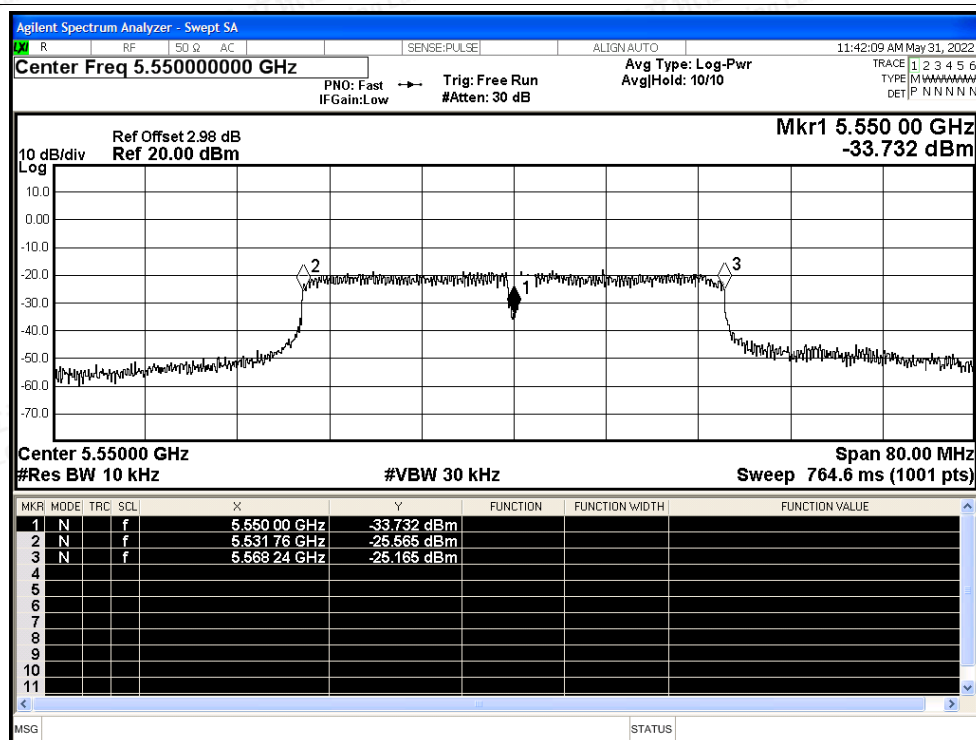
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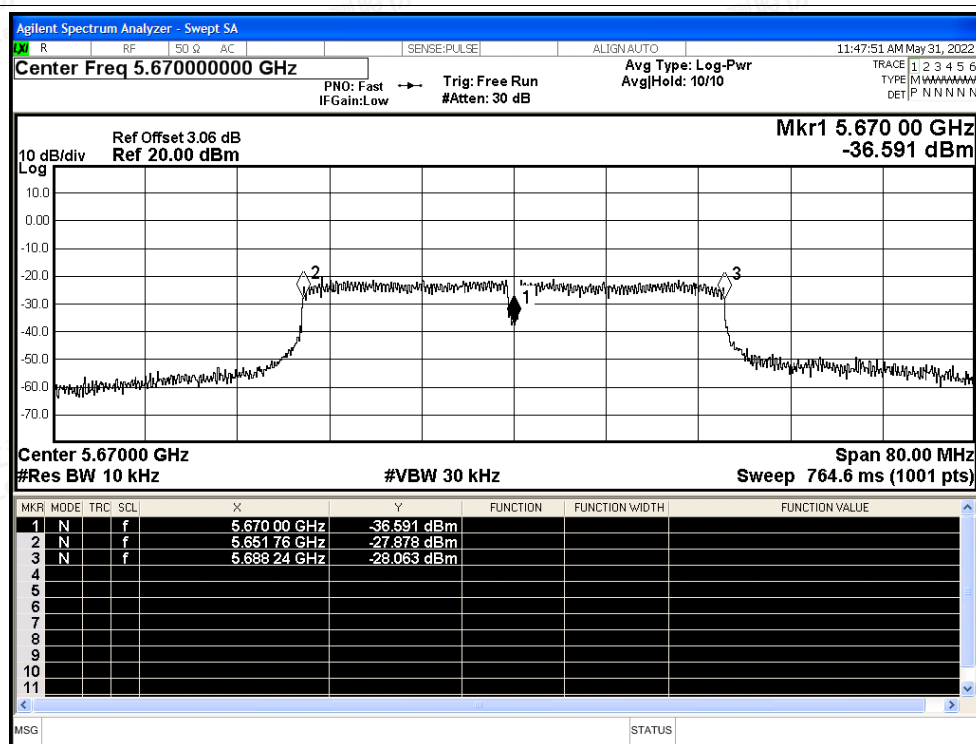
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Freq. Stability NVNT ac40 5550MHz Ant1



Freq. Stability NVNT ac40 5670MHz Ant1



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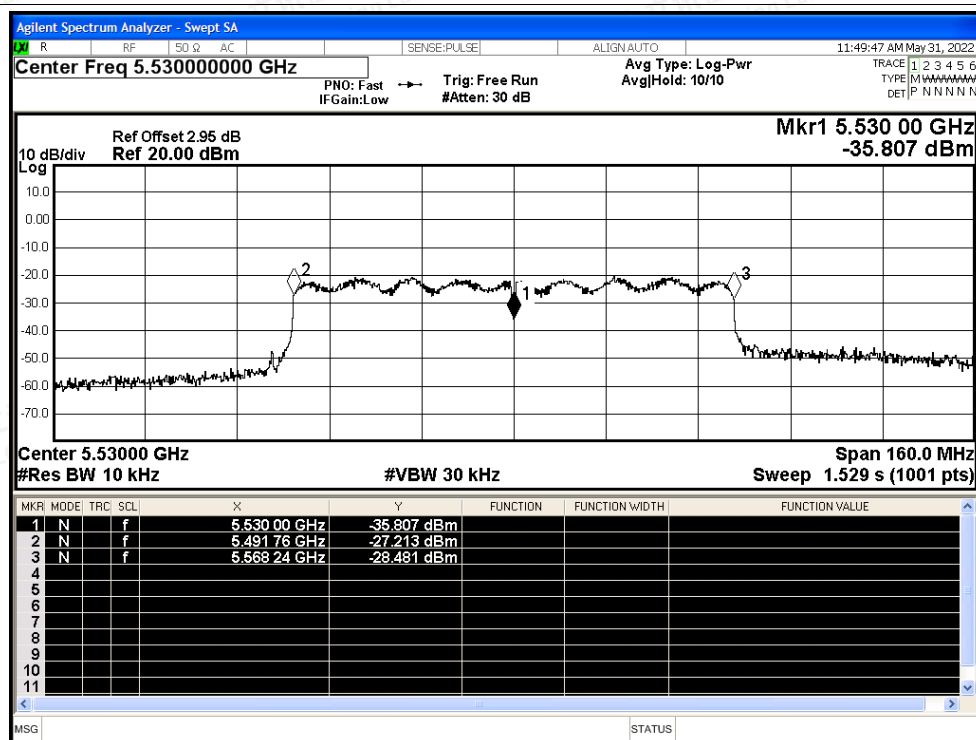
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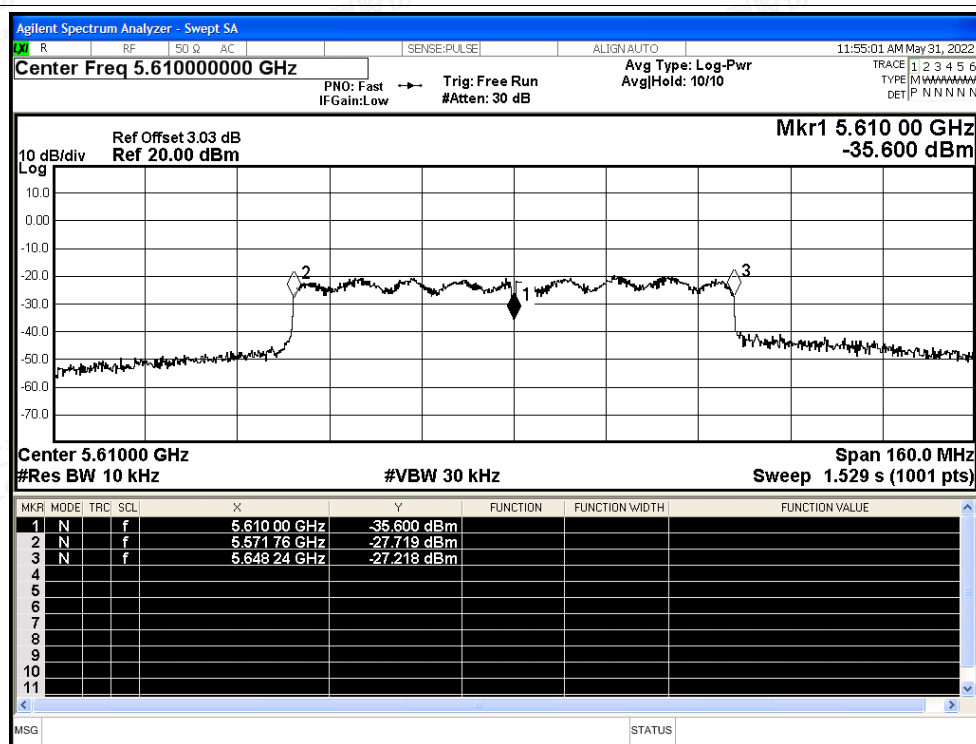
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Freq. Stability NVNT ac80 5530MHz Ant1



Freq. Stability NVNT ac80 5610MHz Ant1



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C.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	100	0	0
NVNT	a	5580	Ant1	100	0	0
NVNT	a	5700	Ant1	100	0	0
NVNT	n20	5500	Ant1	100	0	0
NVNT	n20	5580	Ant1	100	0	0
NVNT	n20	5700	Ant1	100	0	0
NVNT	n40	5510	Ant1	100	0	0
NVNT	n40	5550	Ant1	100	0	0
NVNT	n40	5670	Ant1	100	0	0
NVNT	ac20	5500	Ant1	100	0	0
NVNT	ac20	5580	Ant1	100	0	0
NVNT	ac20	5700	Ant1	100	0	0
NVNT	ac40	5510	Ant1	100	0	0
NVNT	ac40	5550	Ant1	100	0	0
NVNT	ac40	5670	Ant1	100	0	0
NVNT	ac80	5530	Ant1	100	0	0
NVNT	ac80	5610	Ant1	100	0	0

Note: 5610MHz data apply to FCC.



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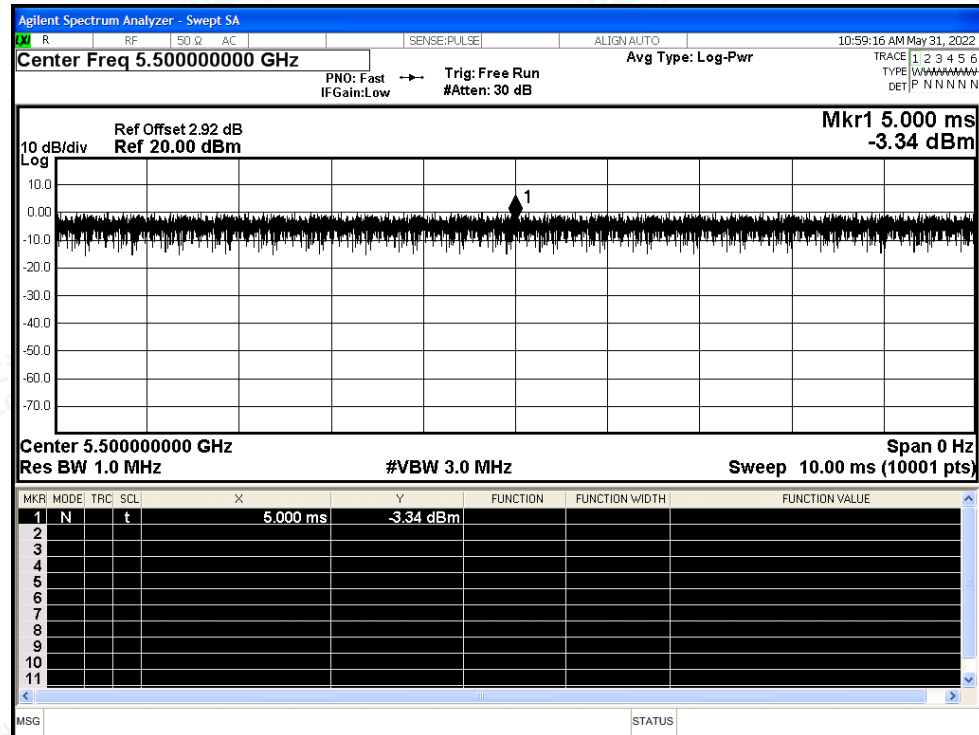
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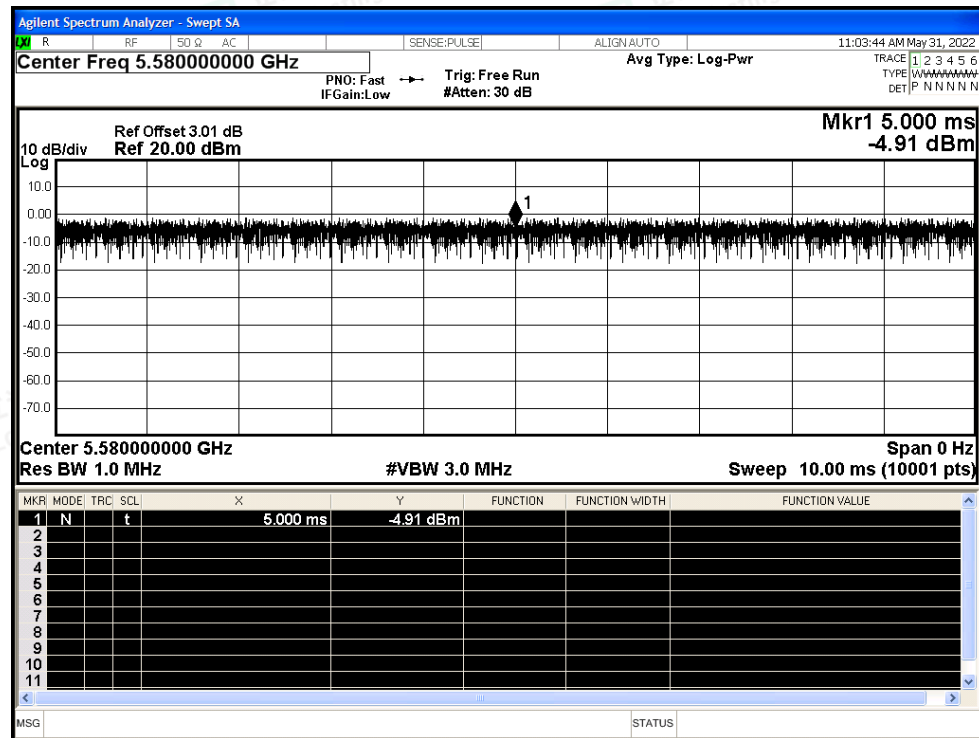


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



Duty Cycle NVNT a 5580MHz Ant1

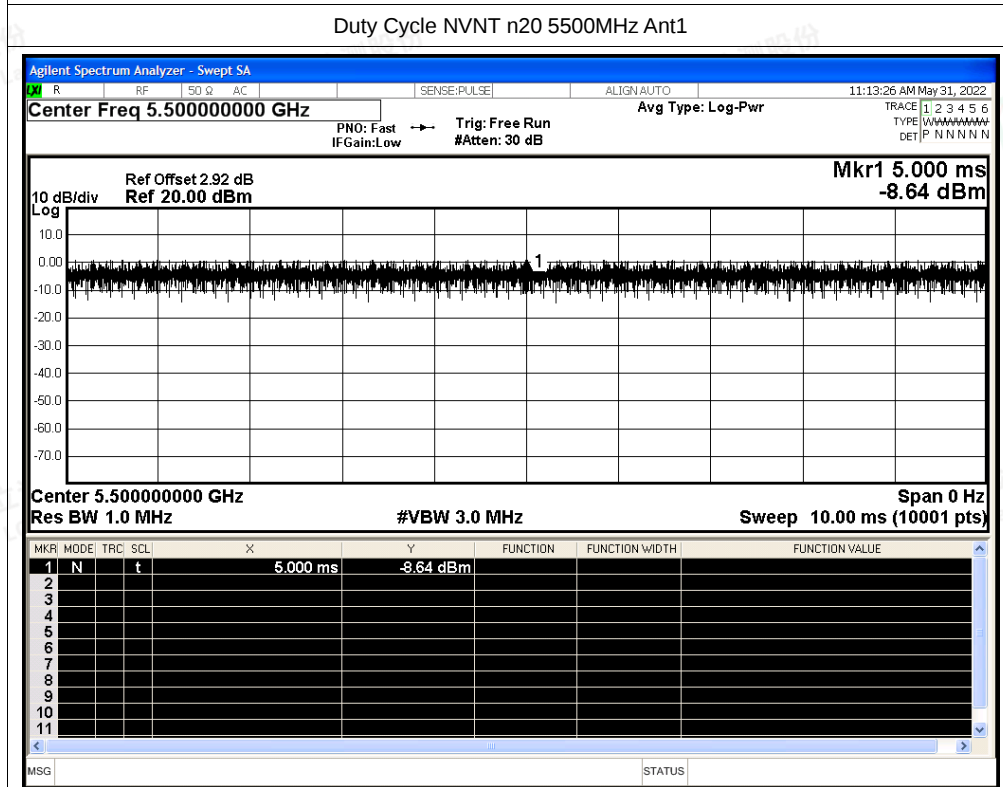
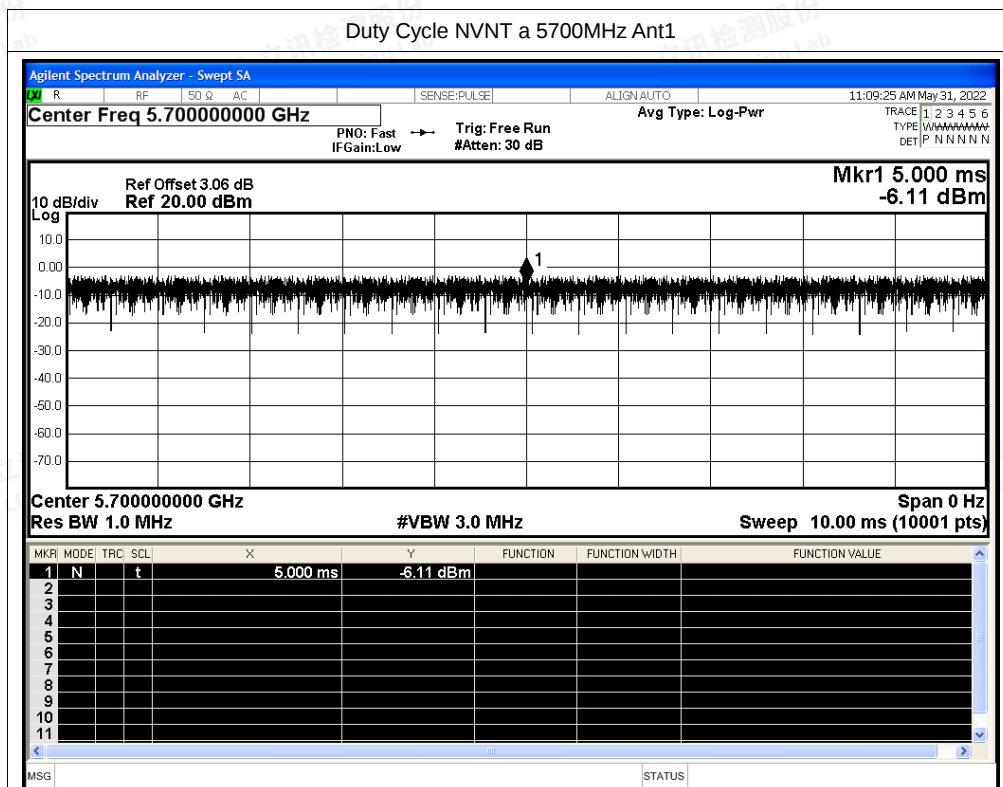


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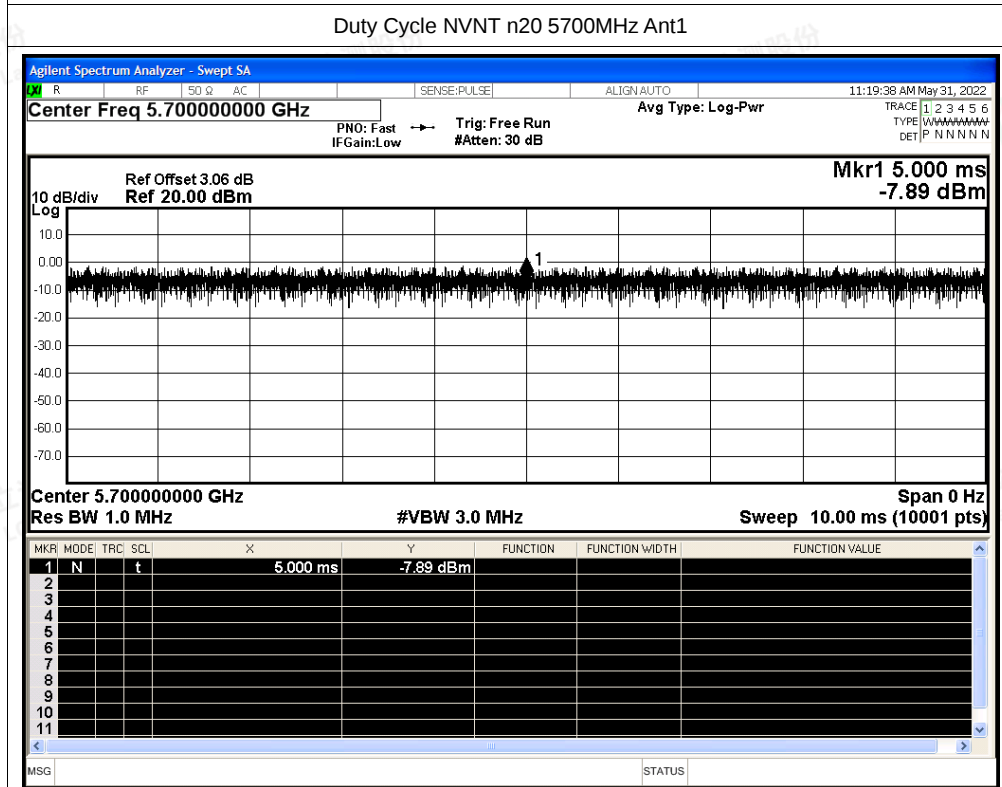
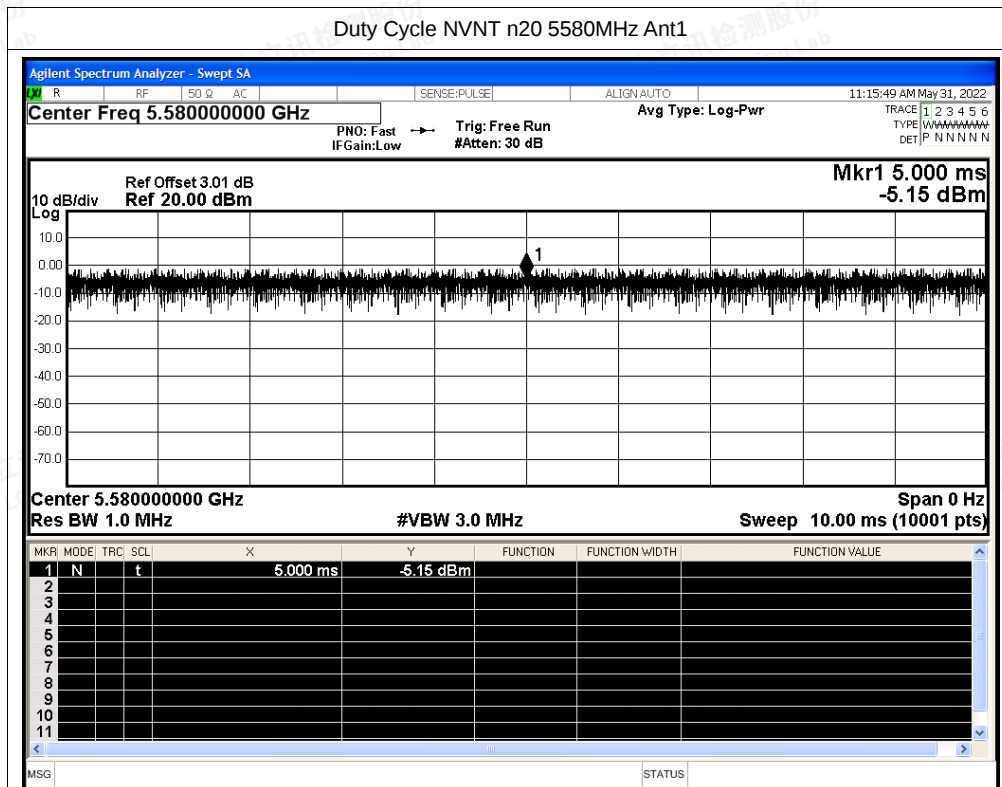


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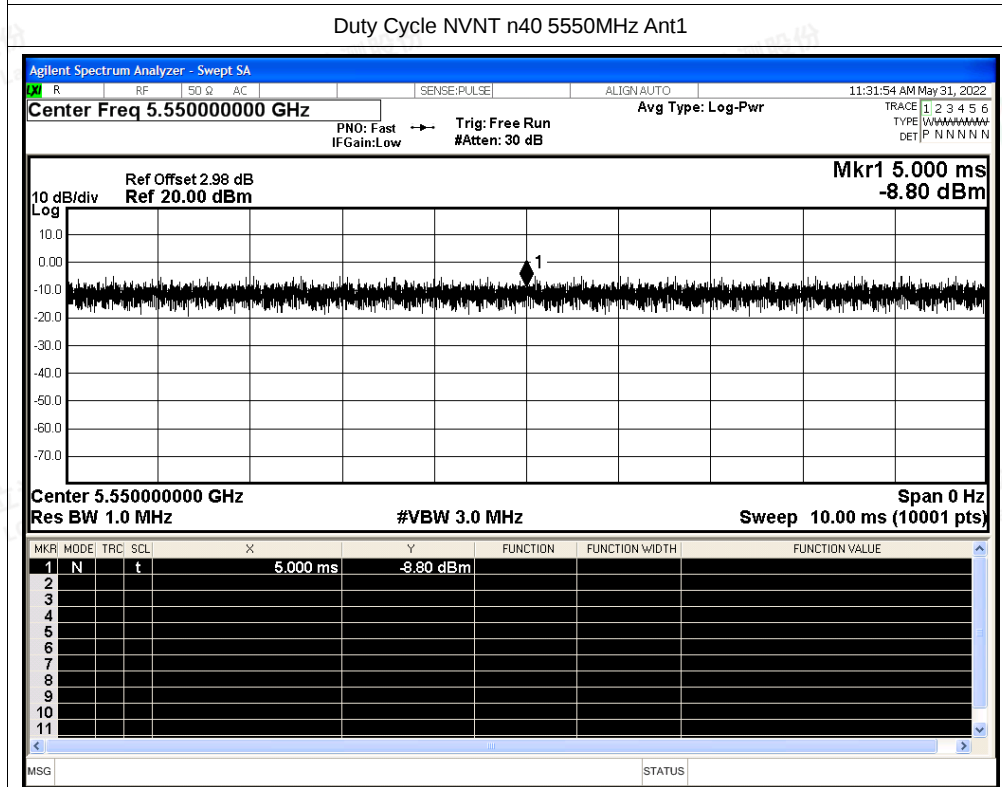
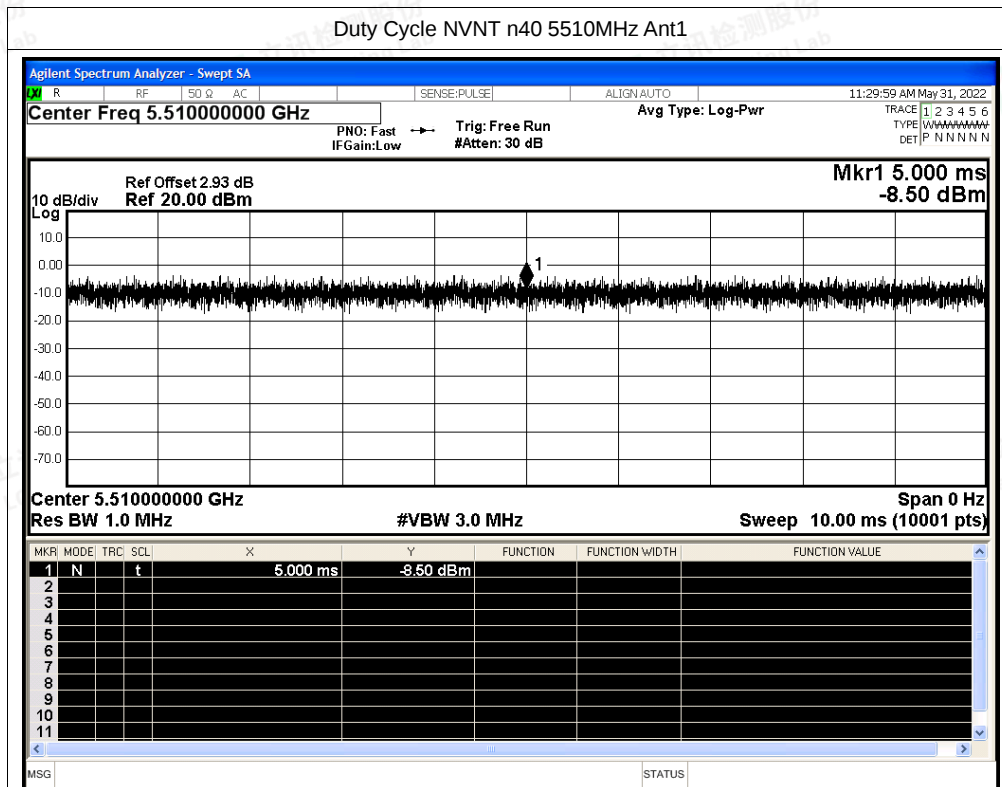


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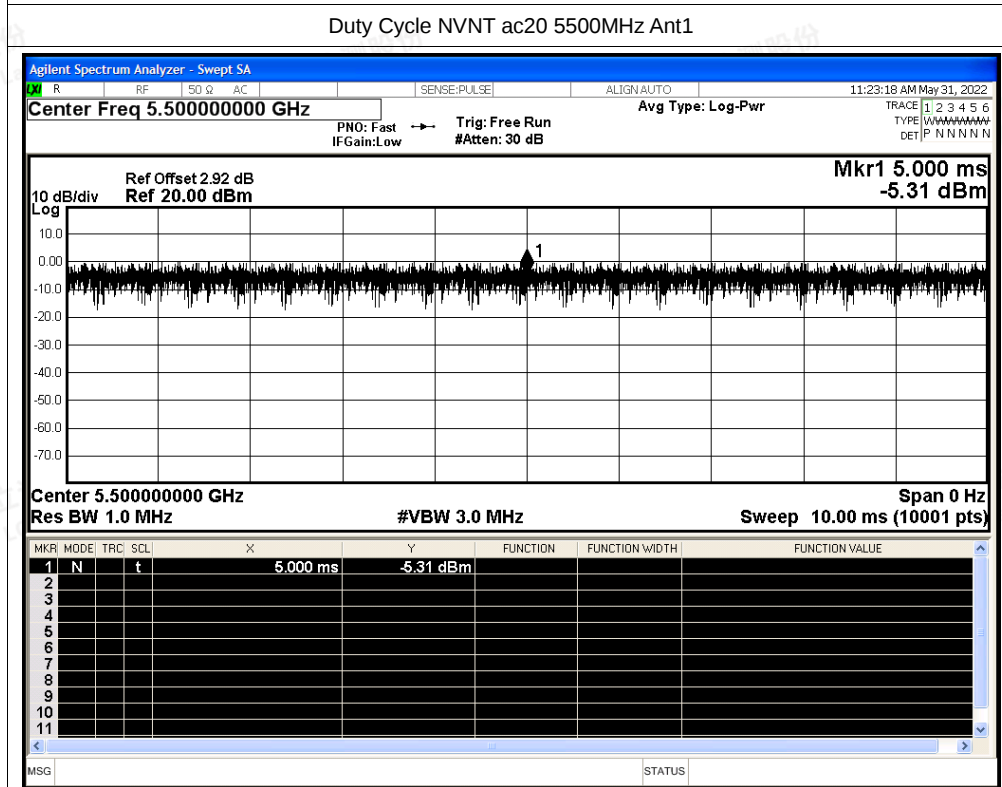
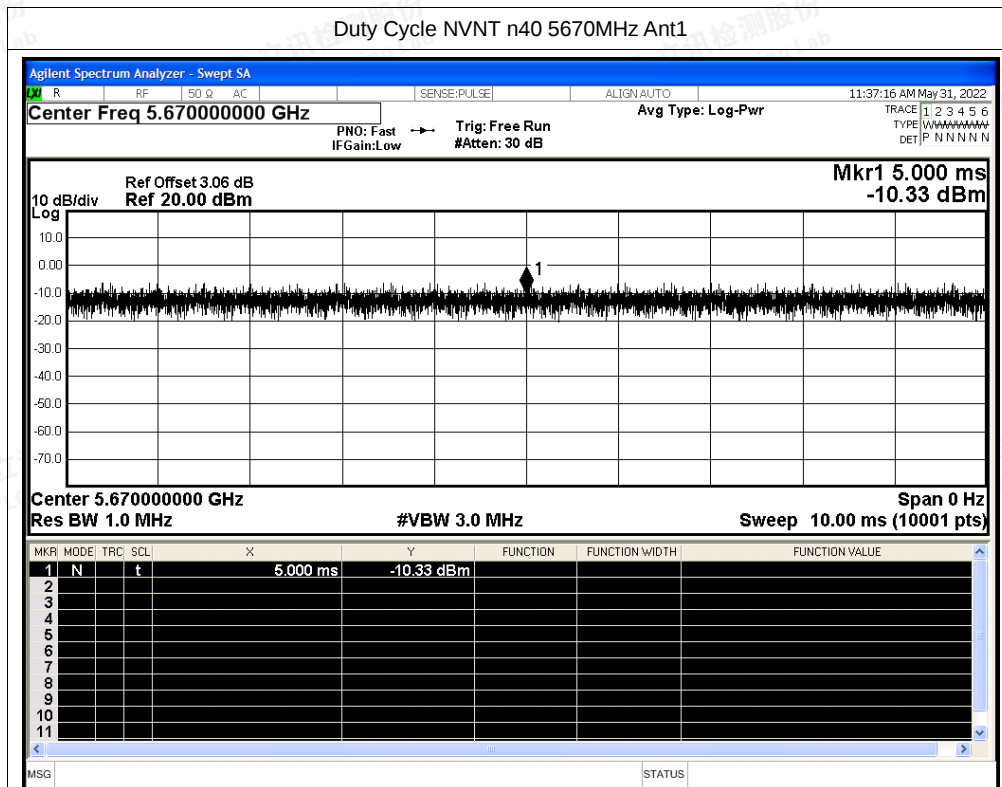


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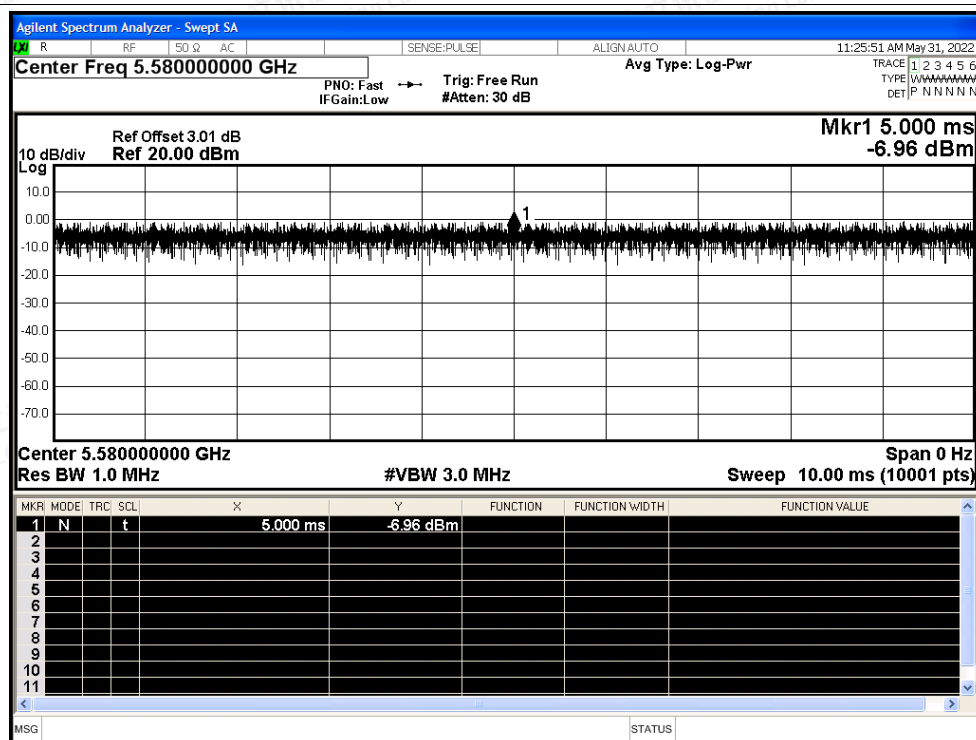
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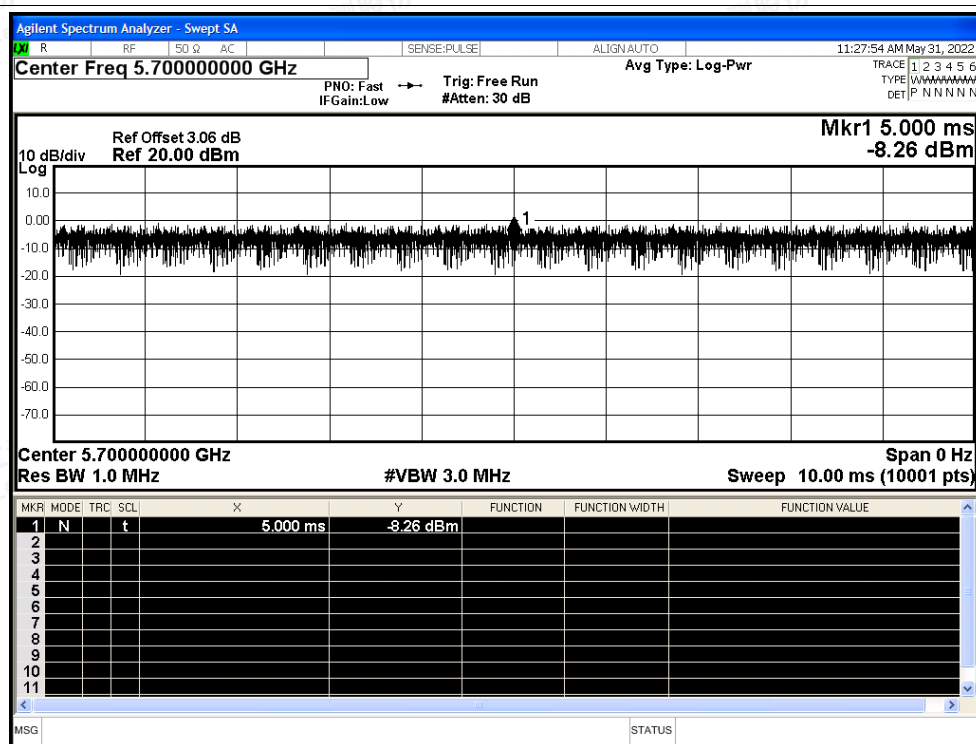
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Duty Cycle NVNT ac20 5580MHz Ant1



Duty Cycle NVNT ac20 5700MHz Ant1



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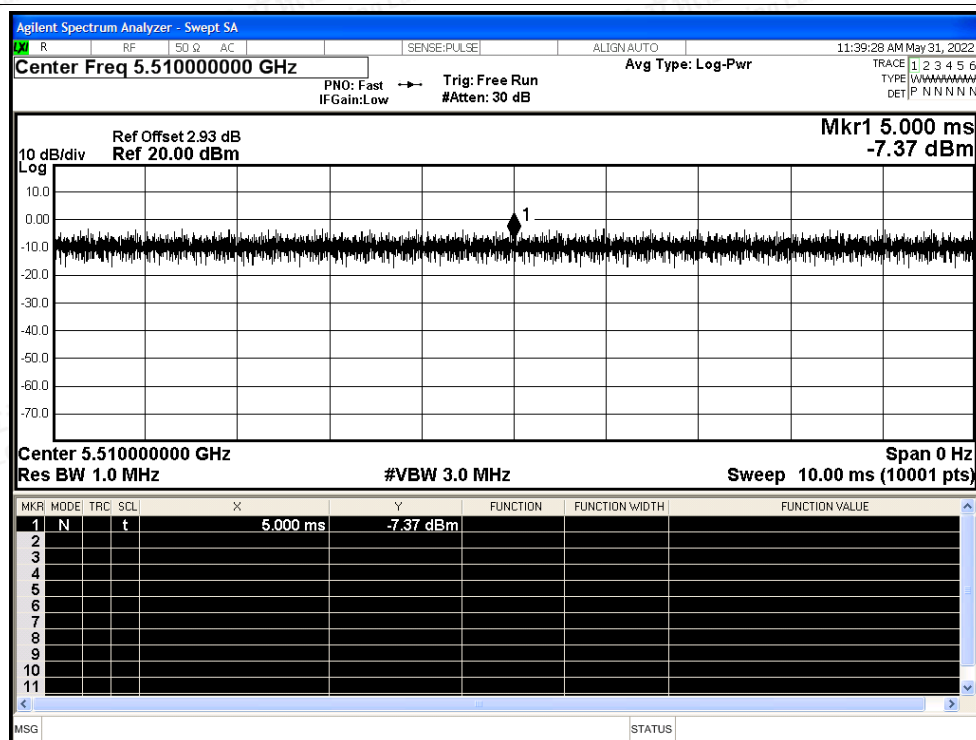
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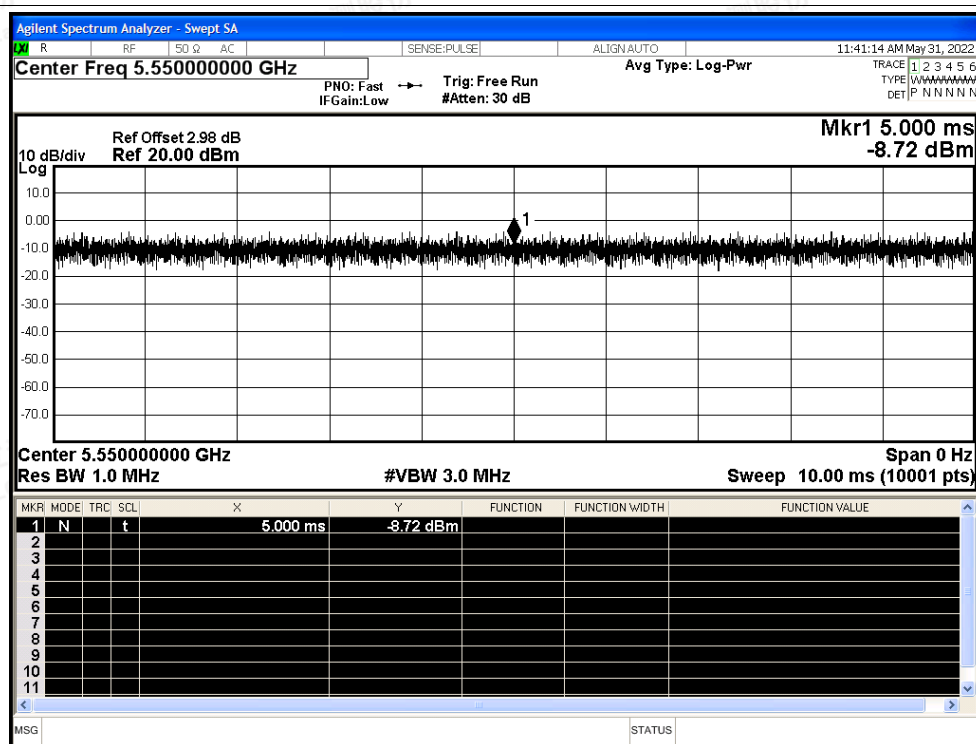
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Duty Cycle NVNT ac40 5510MHz Ant1



Duty Cycle NVNT ac40 5550MHz Ant1

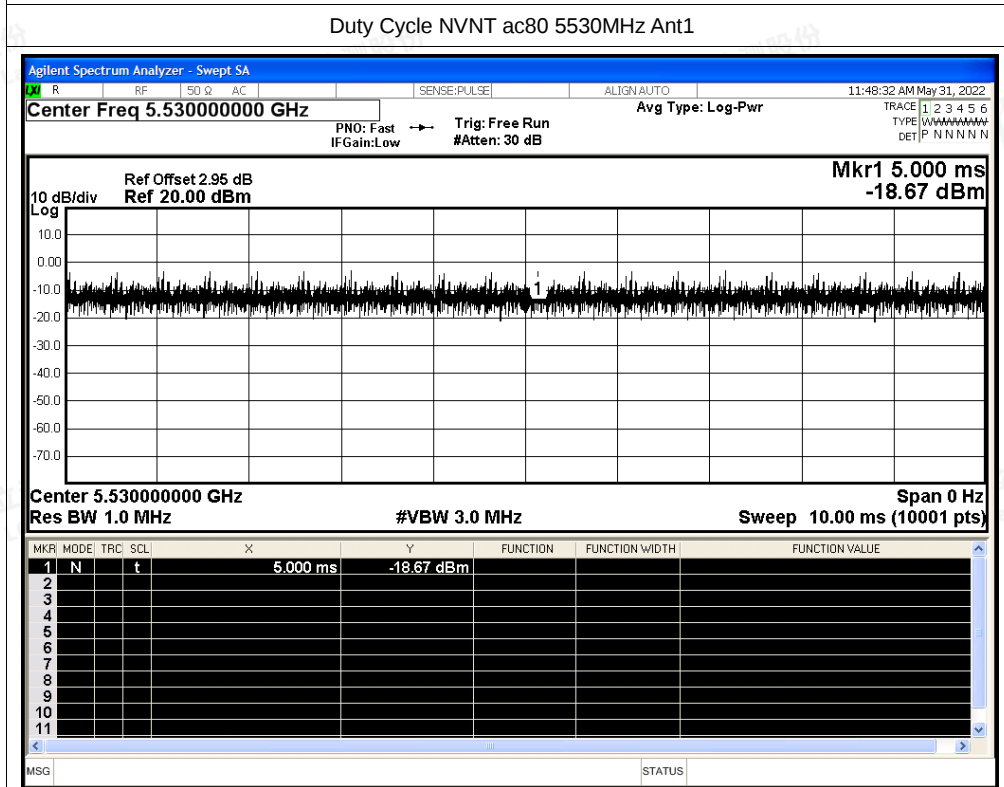
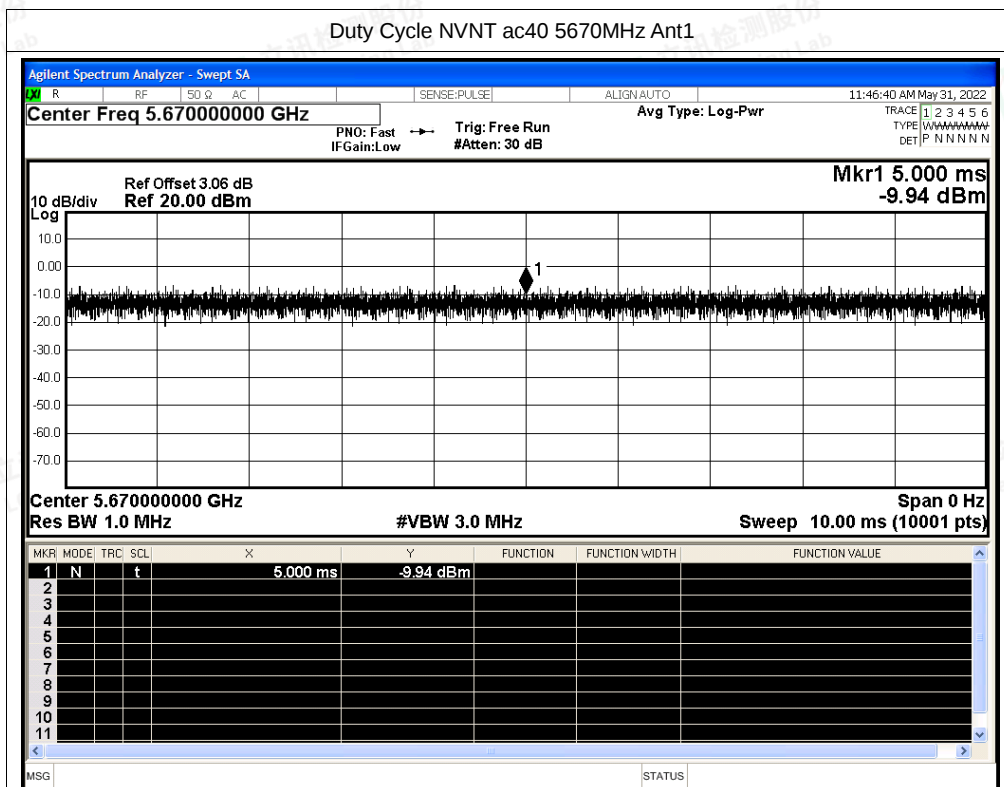


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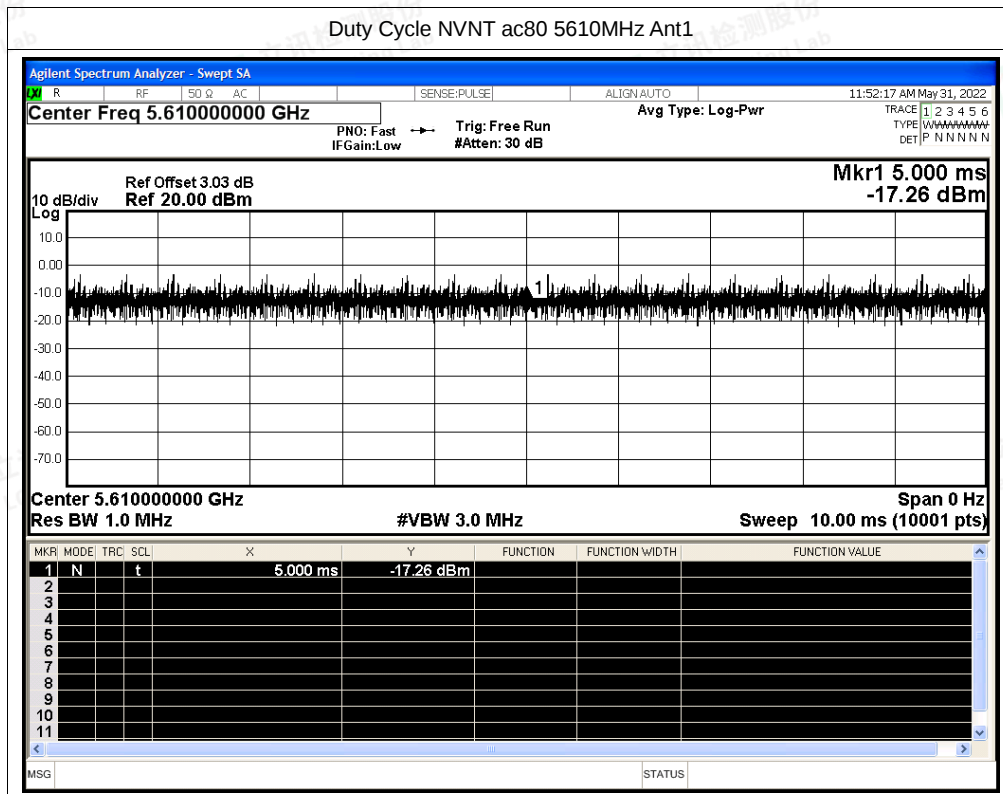


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