



## Appendix F

### RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: Home Automation Controller

Test Model: OliverIQ Home Automation Controller (Gen 1)

#### Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





### F.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	25.85	---	Pass
NVNT	a	5580	Ant1	28.721	---	Pass
NVNT	a	5700	Ant1	29.456	---	Pass
NVNT	n20	5500	Ant1	27.399	---	Pass
NVNT	n20	5580	Ant1	27.94	---	Pass
NVNT	n20	5700	Ant1	27.753	---	Pass
NVNT	n40	5510	Ant1	39.954	---	Pass
NVNT	n40	5550	Ant1	39.405	---	Pass
NVNT	n40	5670	Ant1	41.999	---	Pass
NVNT	ac20	5500	Ant1	27.838	---	Pass
NVNT	ac20	5580	Ant1	28.02	---	Pass
NVNT	ac20	5700	Ant1	28.416	---	Pass
NVNT	ac40	5510	Ant1	39.737	---	Pass
NVNT	ac40	5550	Ant1	39.211	---	Pass
NVNT	ac40	5670	Ant1	47.759	---	Pass
NVNT	ac80	5530	Ant1	78.156	---	Pass
NVNT	ac80	5610	Ant1	78.889	---	Pass

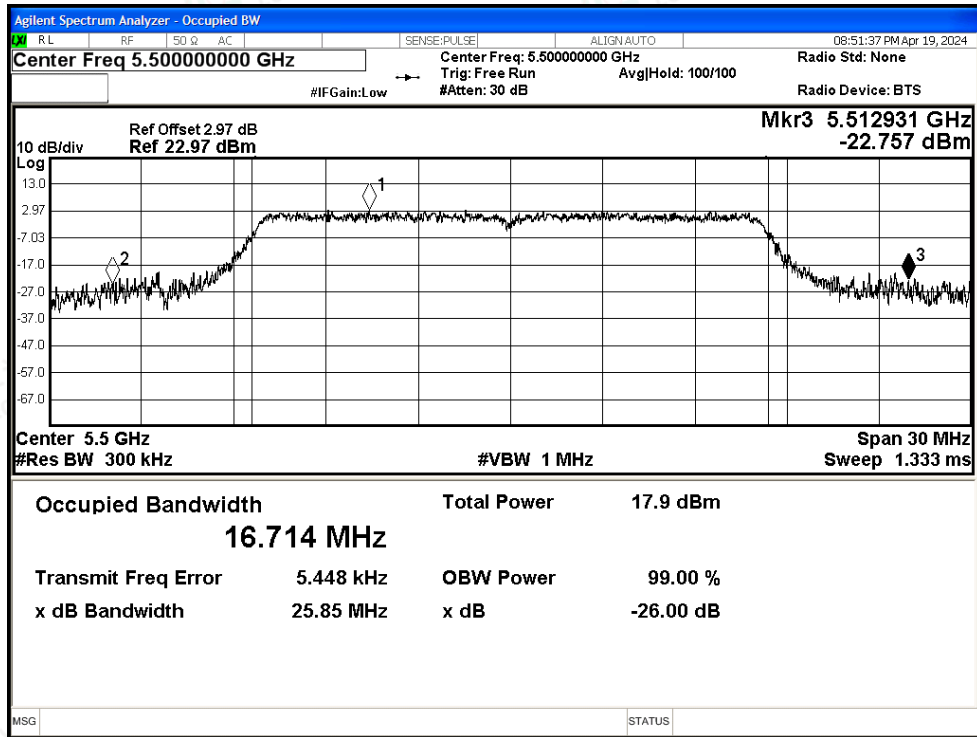


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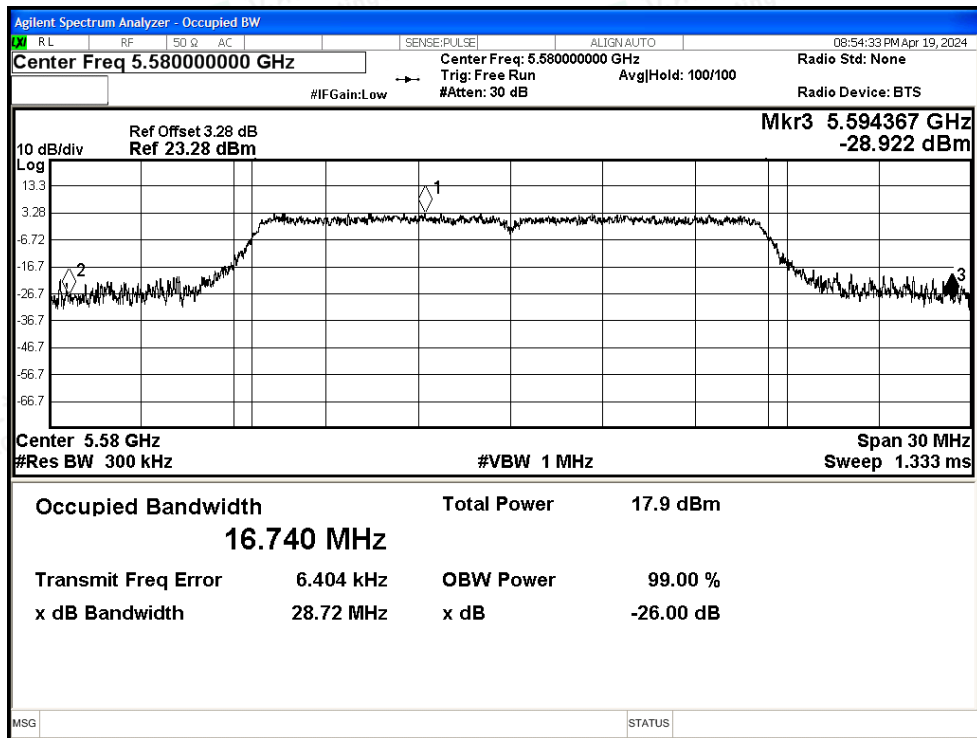


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1

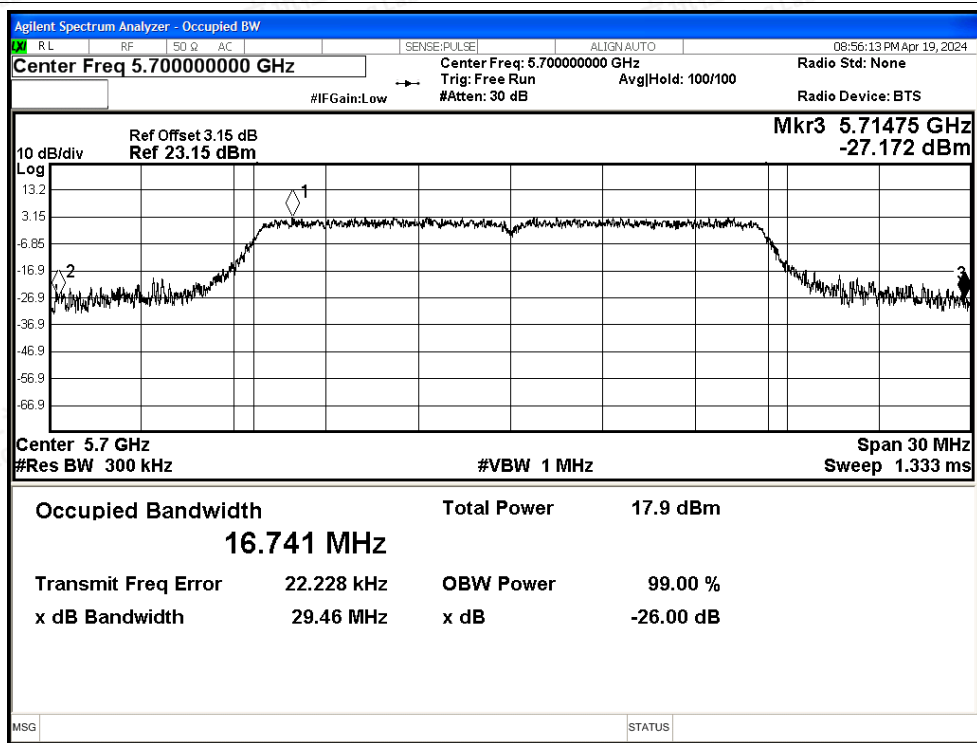


-26dB Bandwidth NVNT a 5580MHz Ant1

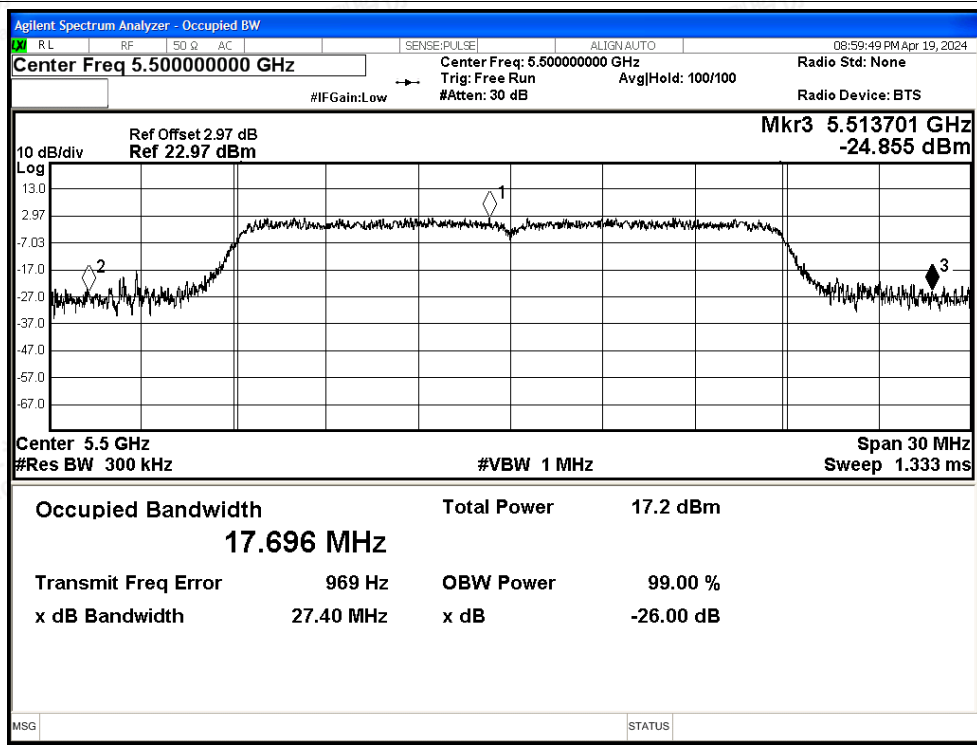


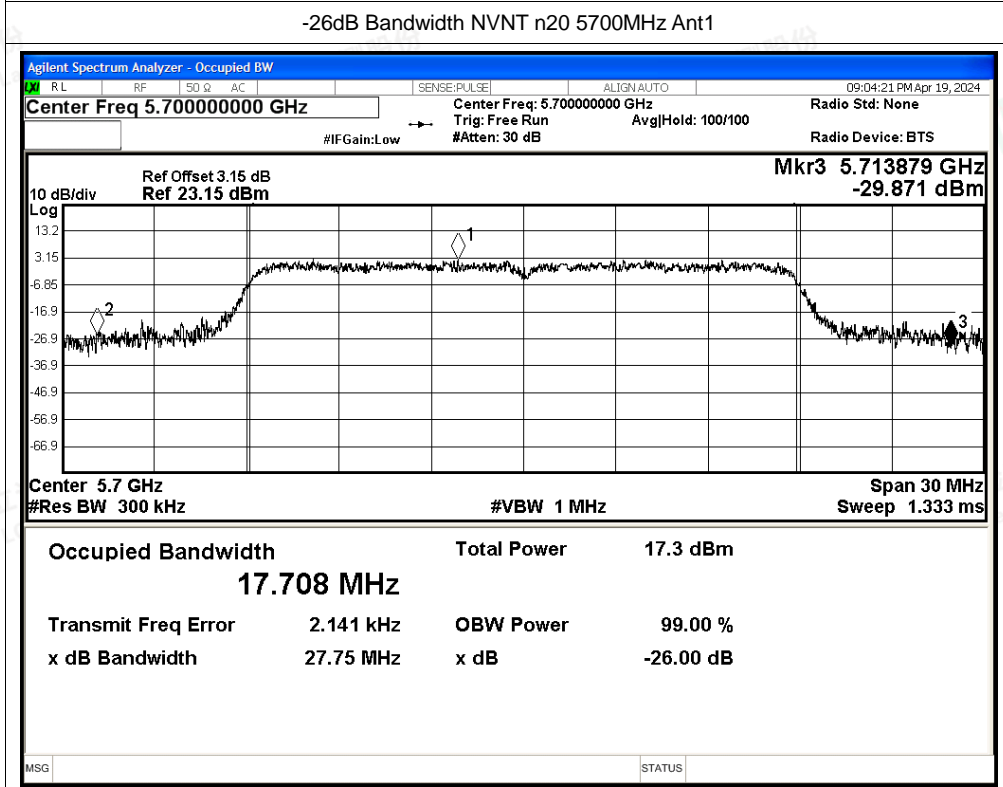
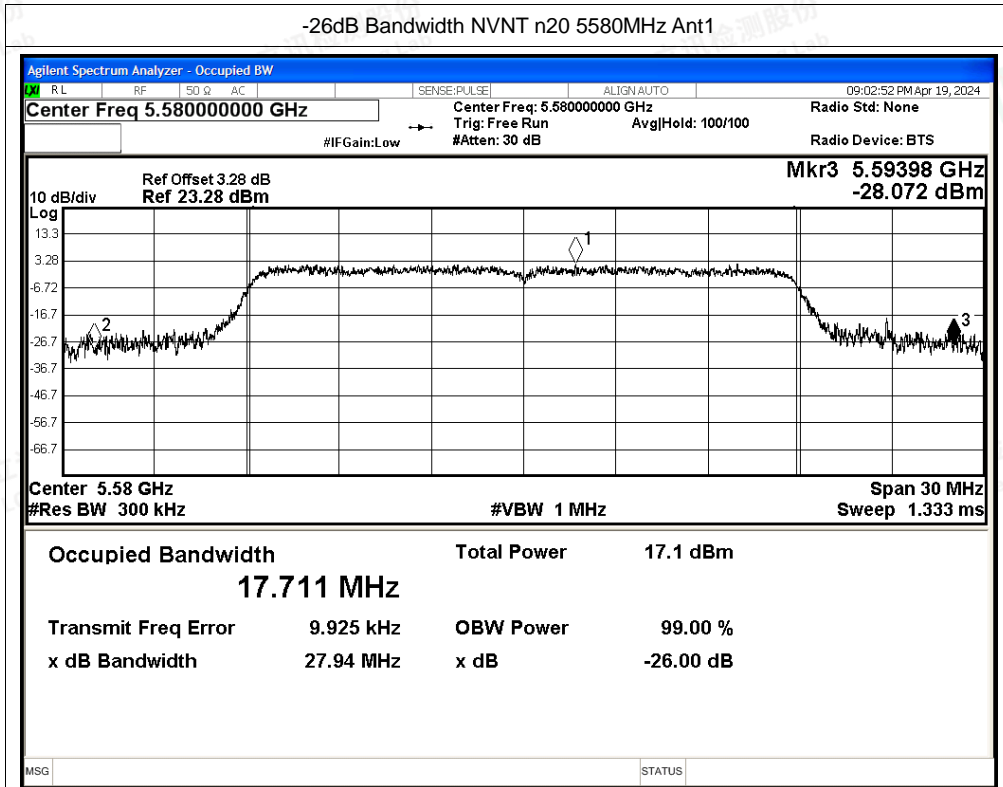


-26dB Bandwidth NVNT a 5700MHz Ant1



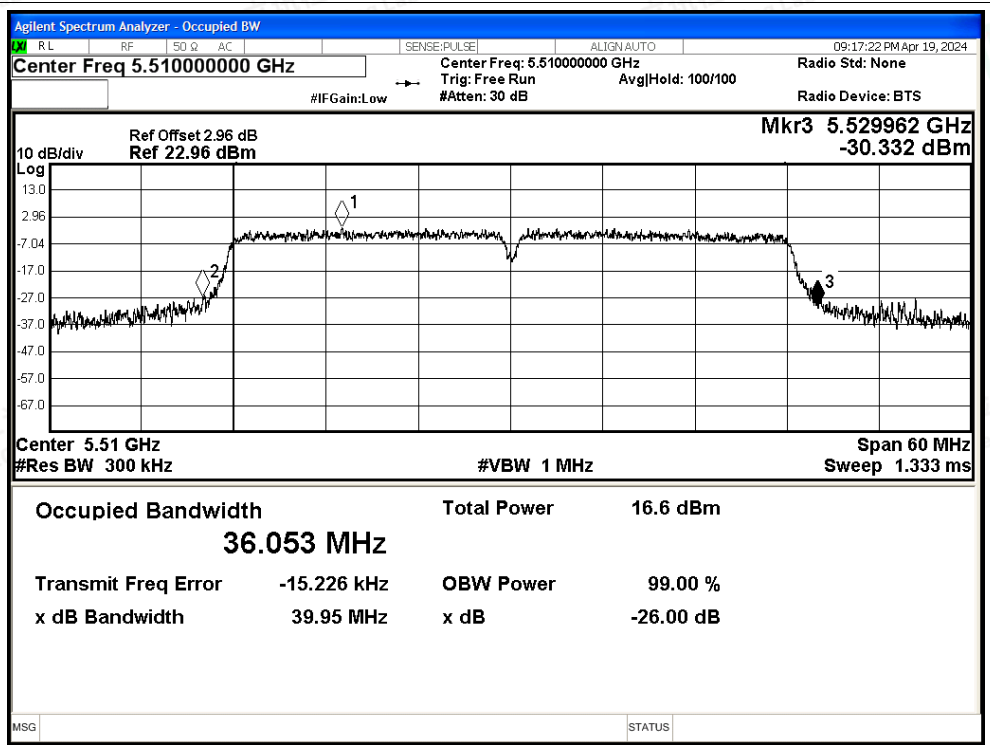
-26dB Bandwidth NVNT n20 5500MHz Ant1



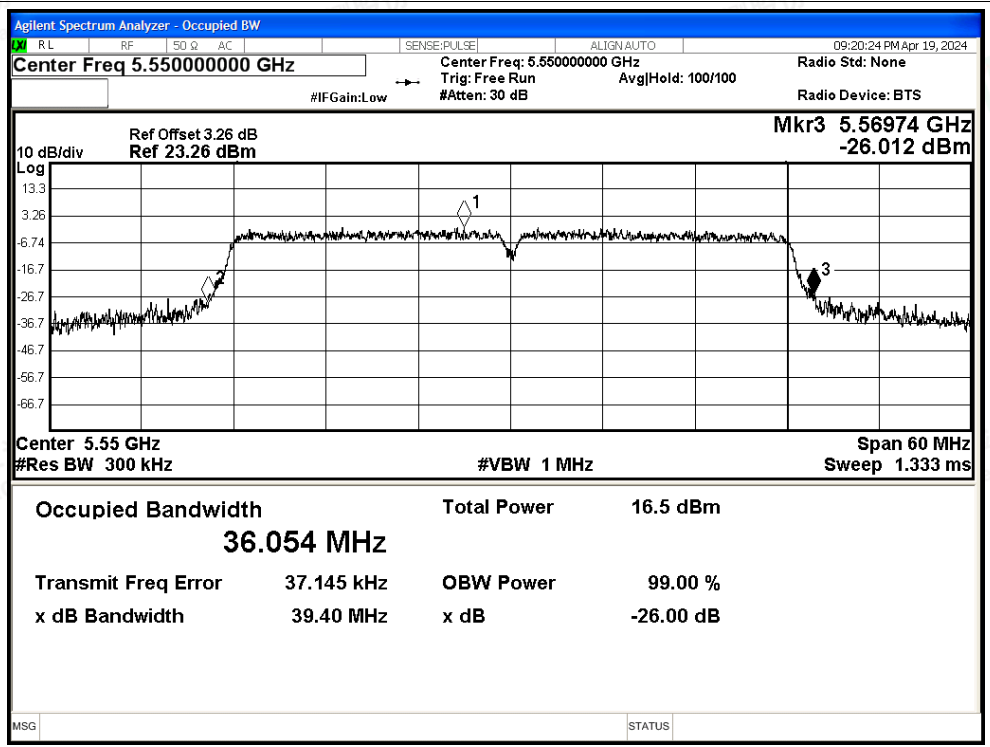




-26dB Bandwidth NVNT n40 5510MHz Ant1

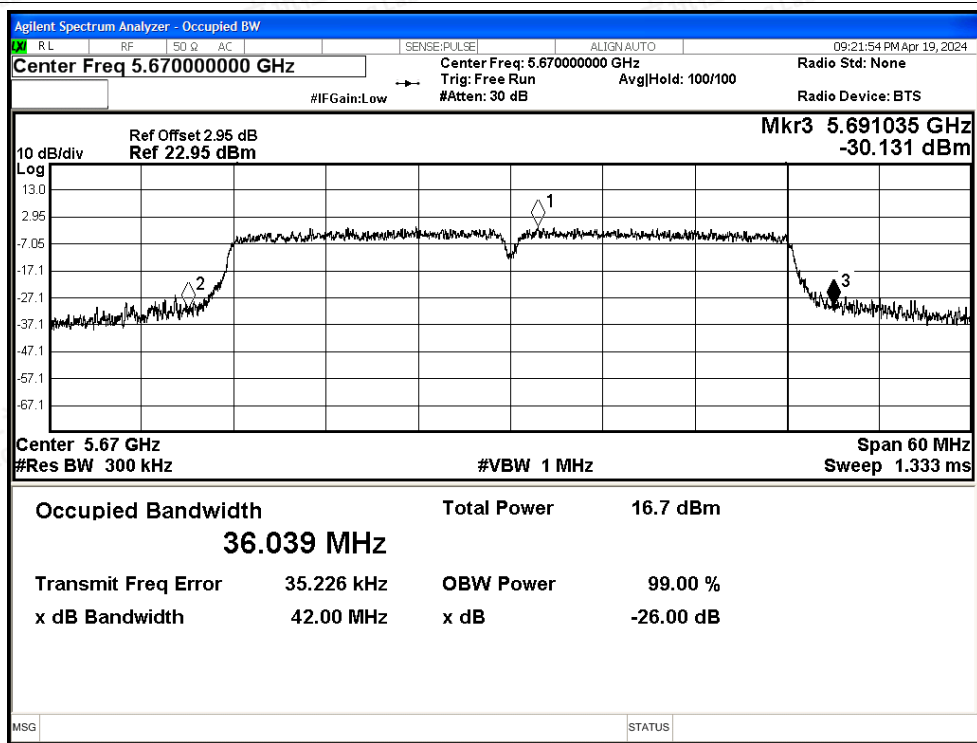


-26dB Bandwidth NVNT n40 5550MHz Ant1

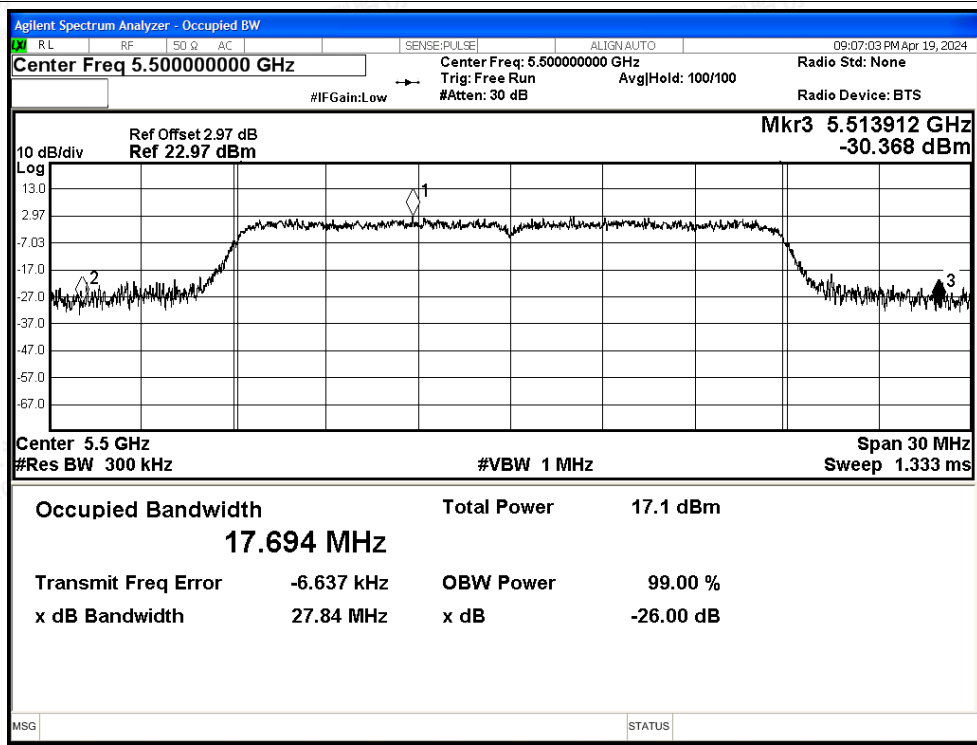


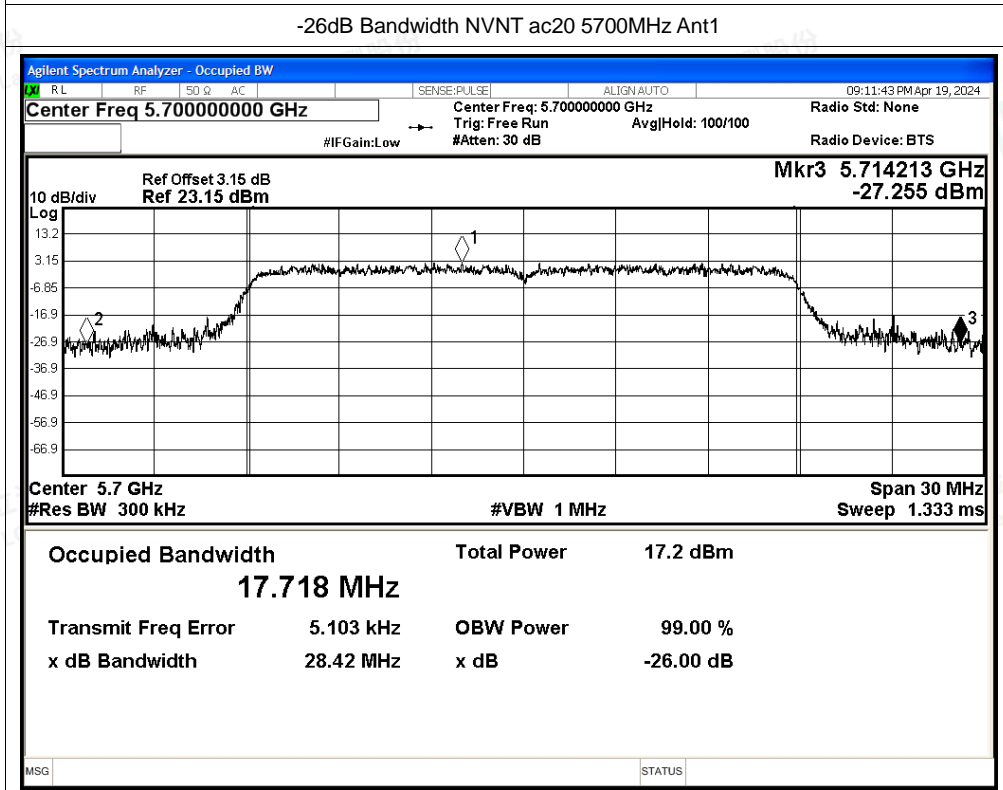
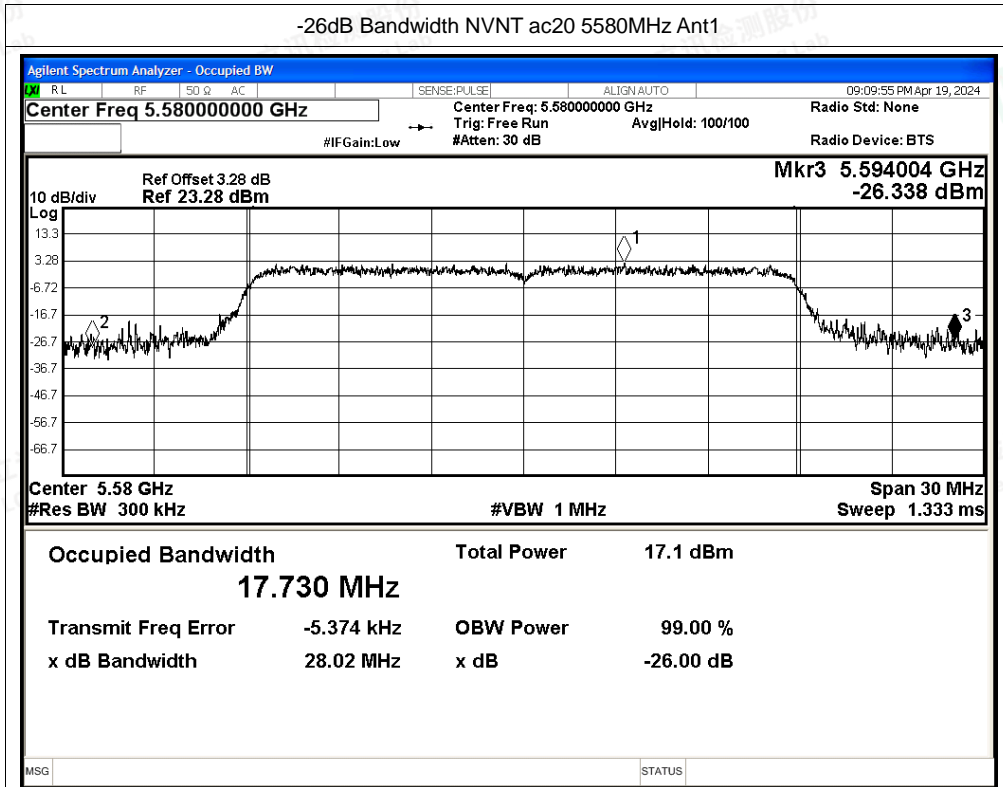


-26dB Bandwidth NVNT n40 5670MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1

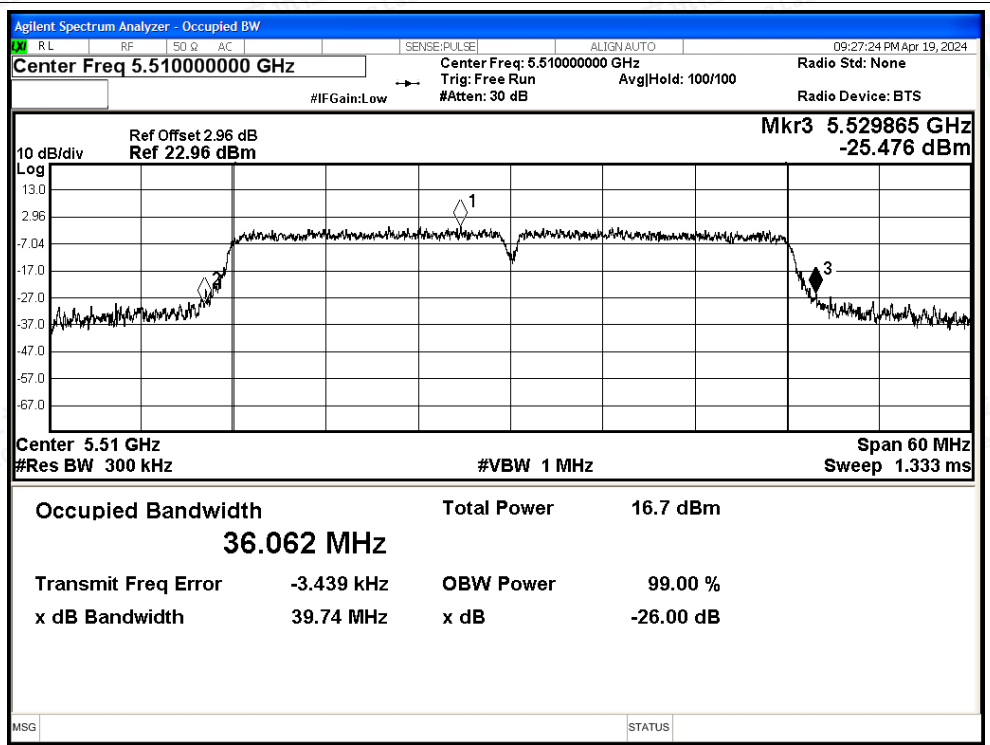




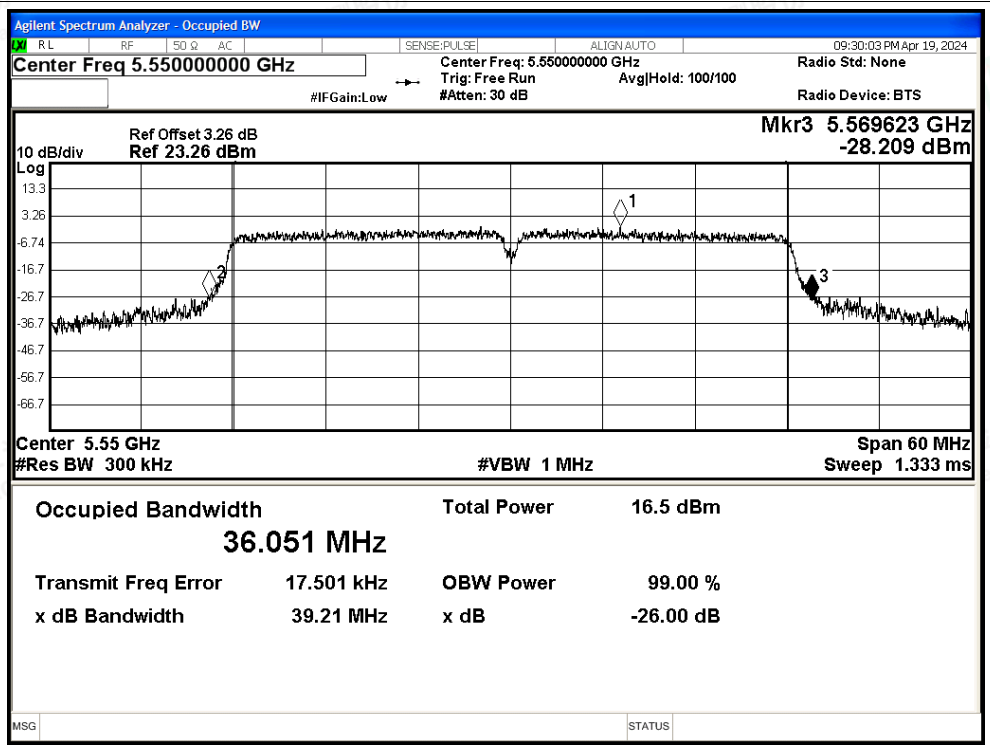




-26dB Bandwidth NVNT ac40 5510MHz Ant1

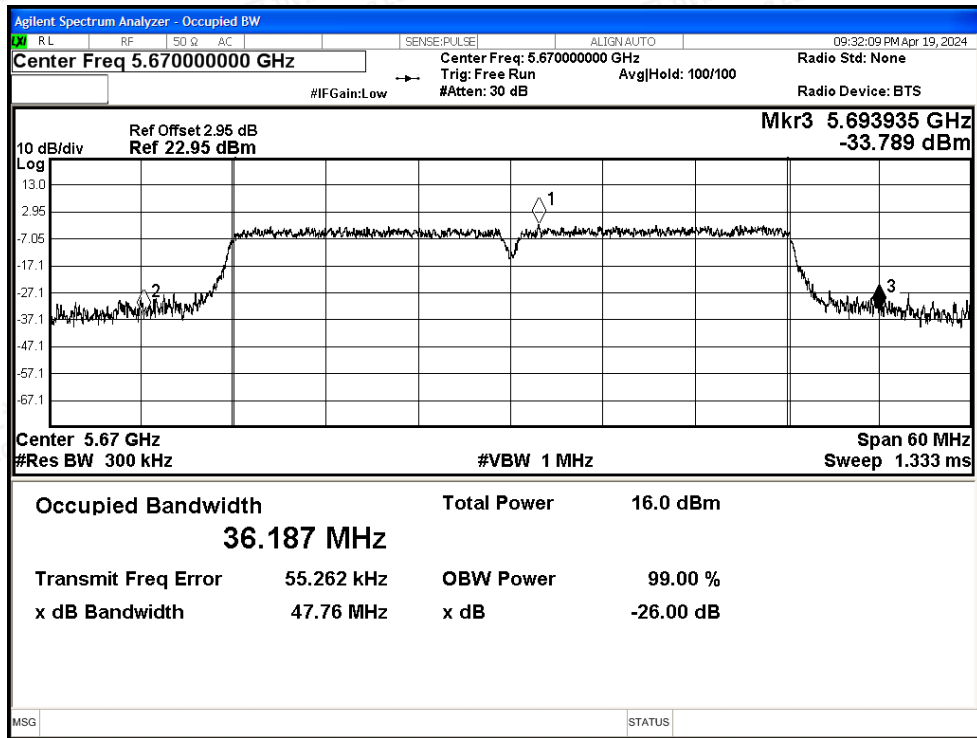


-26dB Bandwidth NVNT ac40 5550MHz Ant1

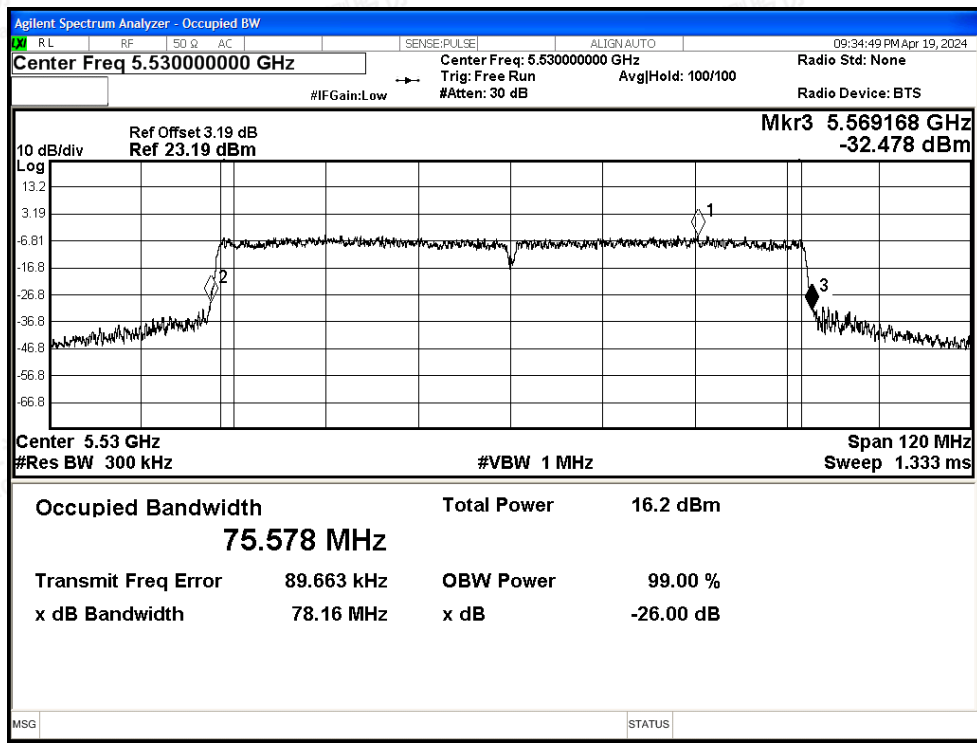


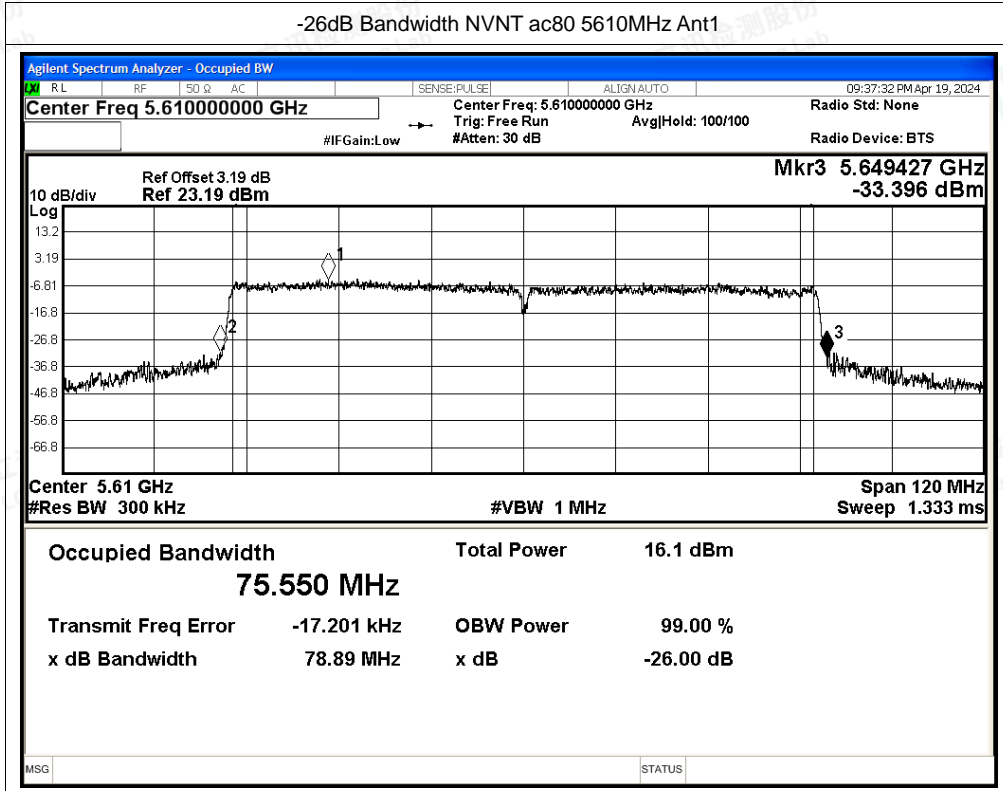


-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1







Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant2	27.013	---	Pass
NVNT	a	5580	Ant2	27.207	---	Pass
NVNT	a	5700	Ant2	26.797	---	Pass
NVNT	n20	5500	Ant2	27.915	---	Pass
NVNT	n20	5580	Ant2	27.976	---	Pass
NVNT	n20	5700	Ant2	28.996	---	Pass
NVNT	n40	5510	Ant2	49.275	---	Pass
NVNT	n40	5550	Ant2	43.905	---	Pass
NVNT	n40	5670	Ant2	39.447	---	Pass
NVNT	ac20	5500	Ant2	28.443	---	Pass
NVNT	ac20	5580	Ant2	28.481	---	Pass
NVNT	ac20	5700	Ant2	27.974	---	Pass
NVNT	ac40	5510	Ant2	42.842	---	Pass
NVNT	ac40	5550	Ant2	46.404	---	Pass
NVNT	ac40	5670	Ant2	45.061	---	Pass
NVNT	ac80	5530	Ant2	78.763	---	Pass
NVNT	ac80	5610	Ant2	78.001	---	Pass

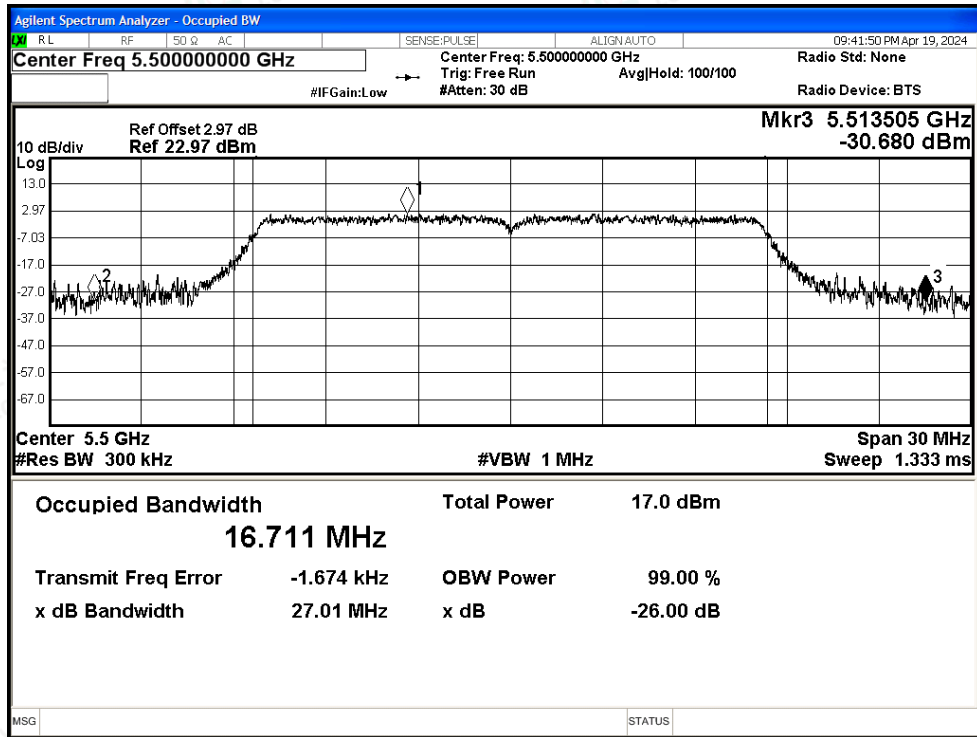


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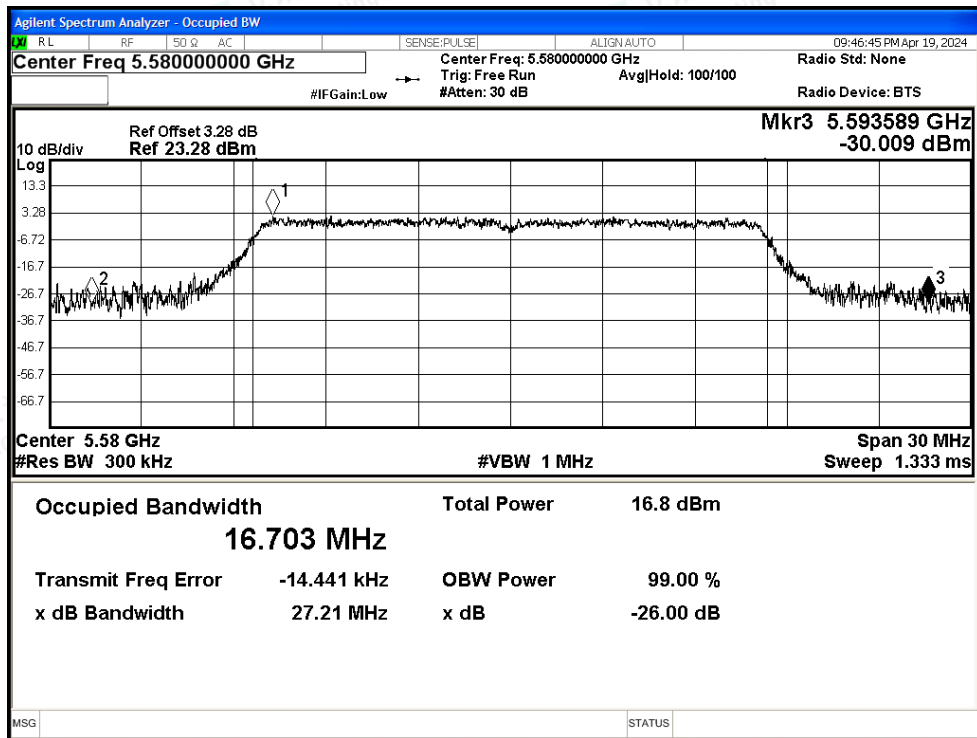


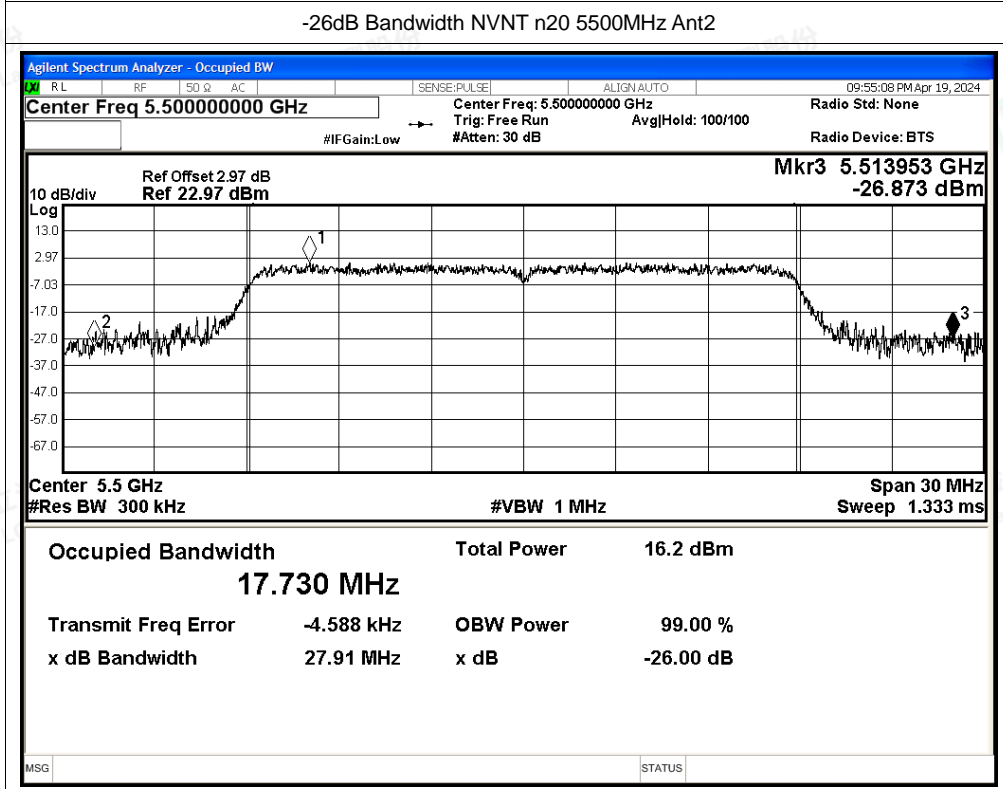
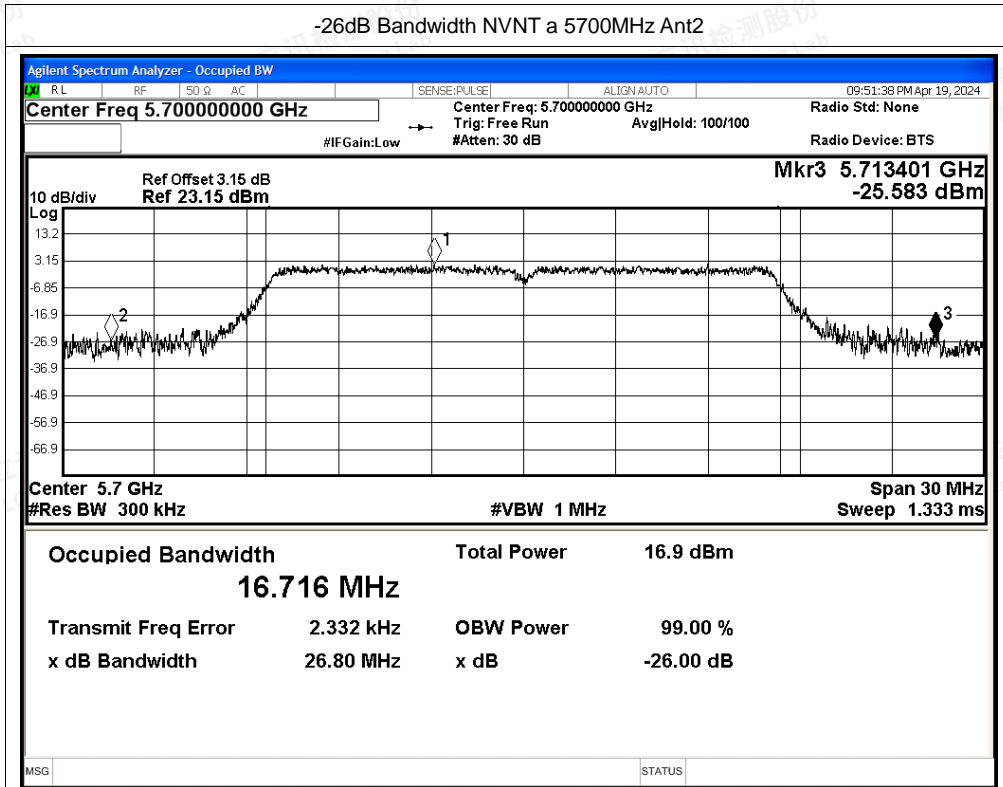
Test Graphs

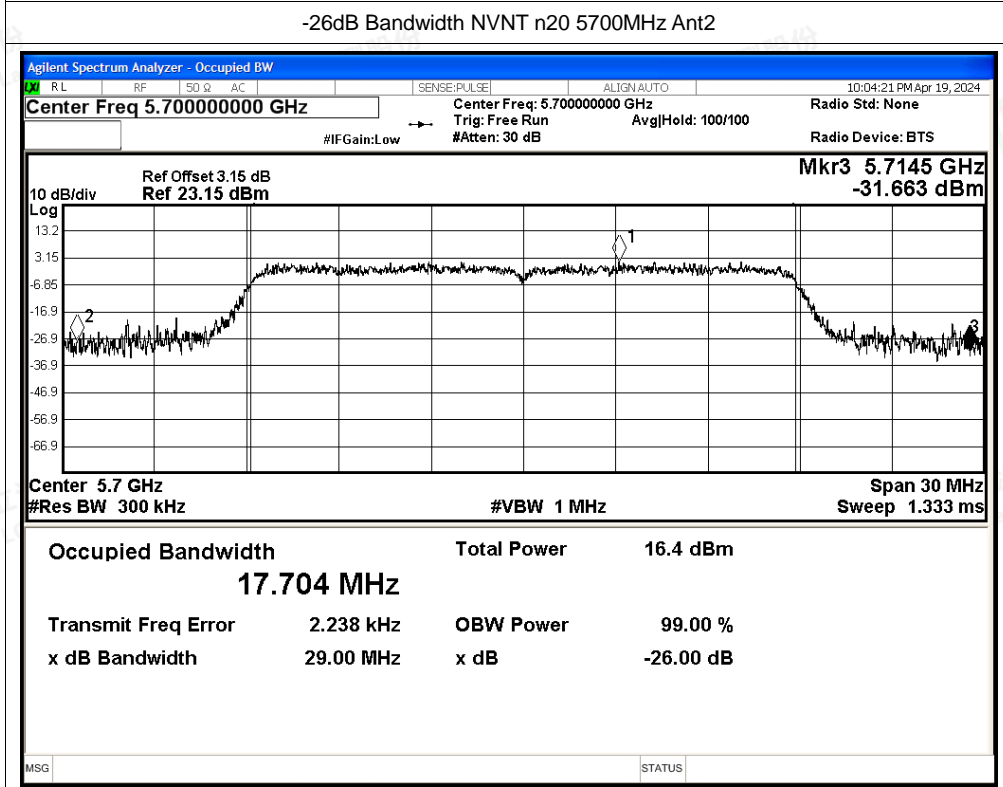
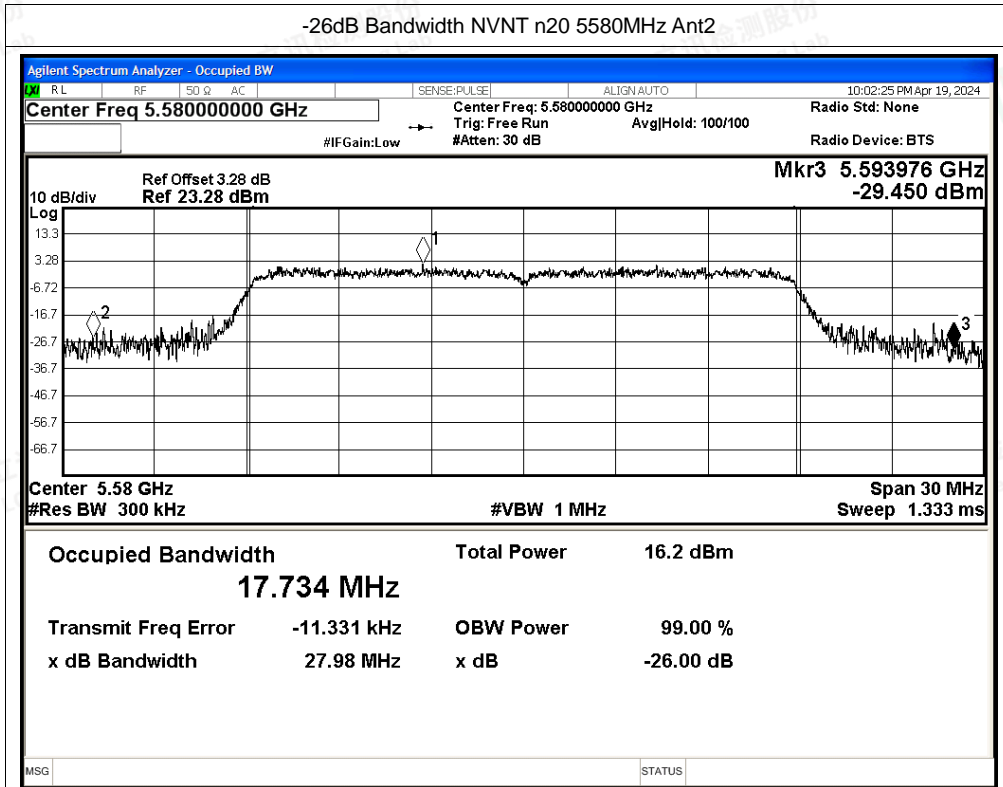
-26dB Bandwidth NVNT a 5500MHz Ant2

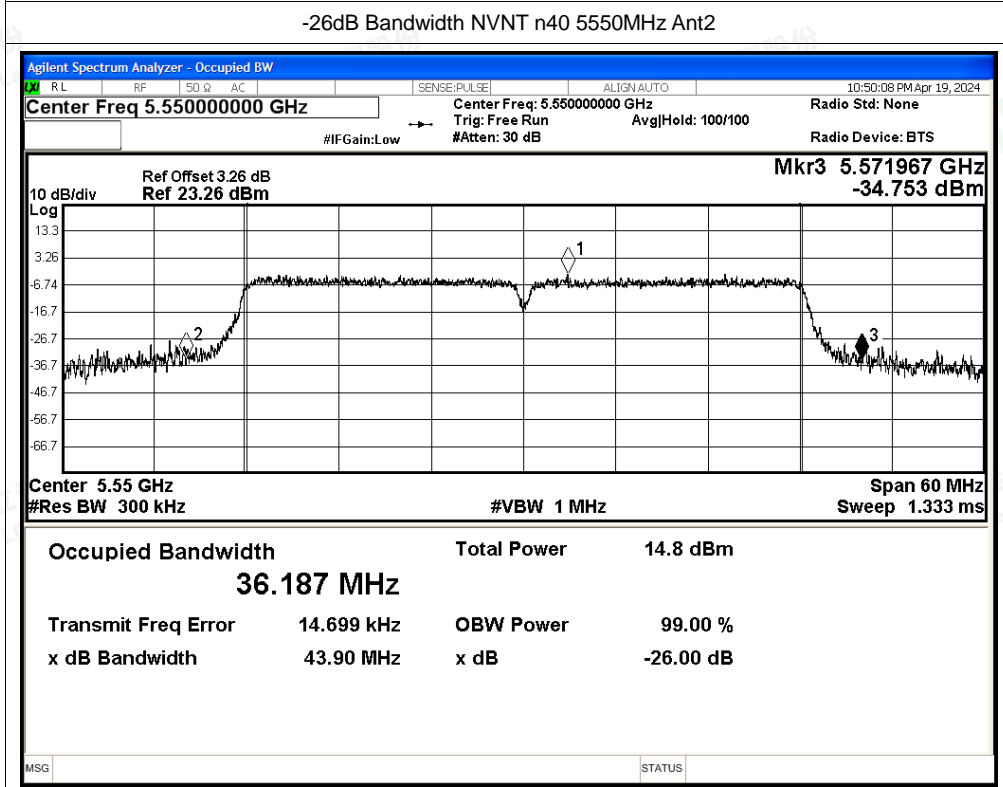
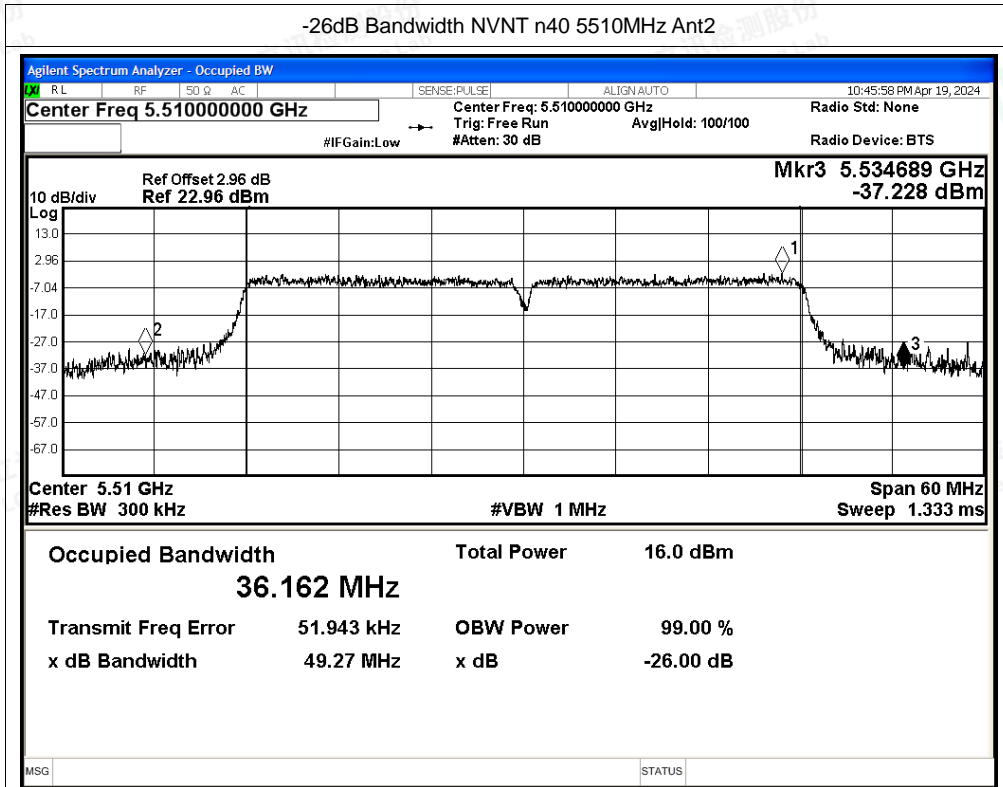


-26dB Bandwidth NVNT a 5580MHz Ant2

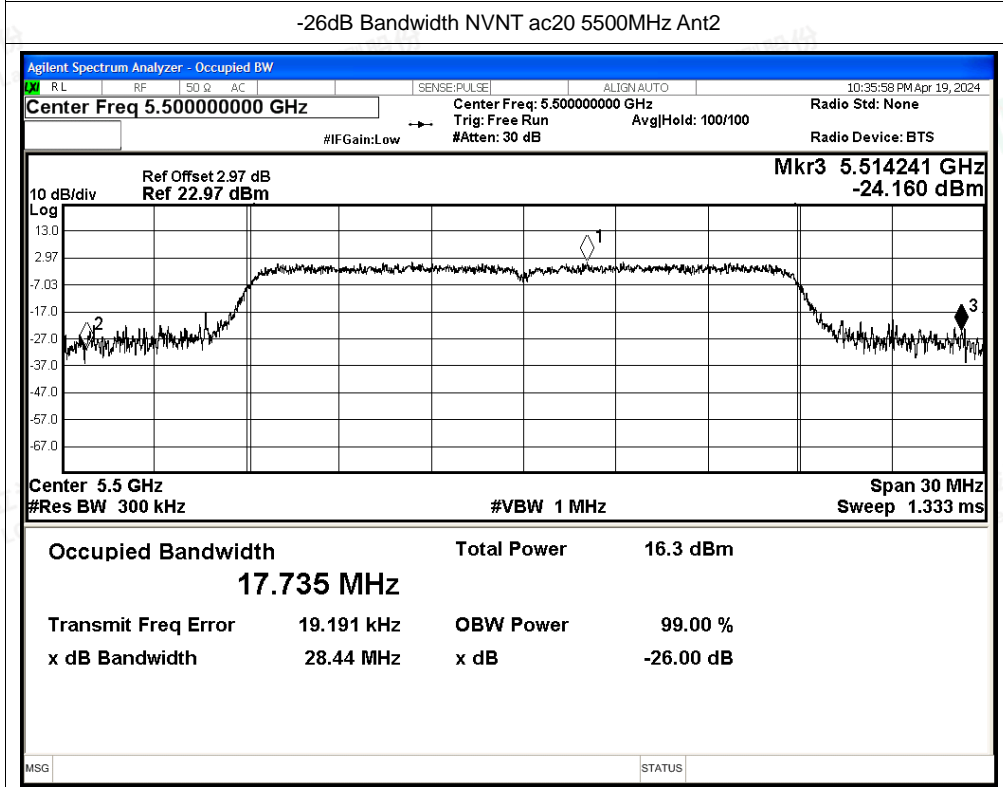
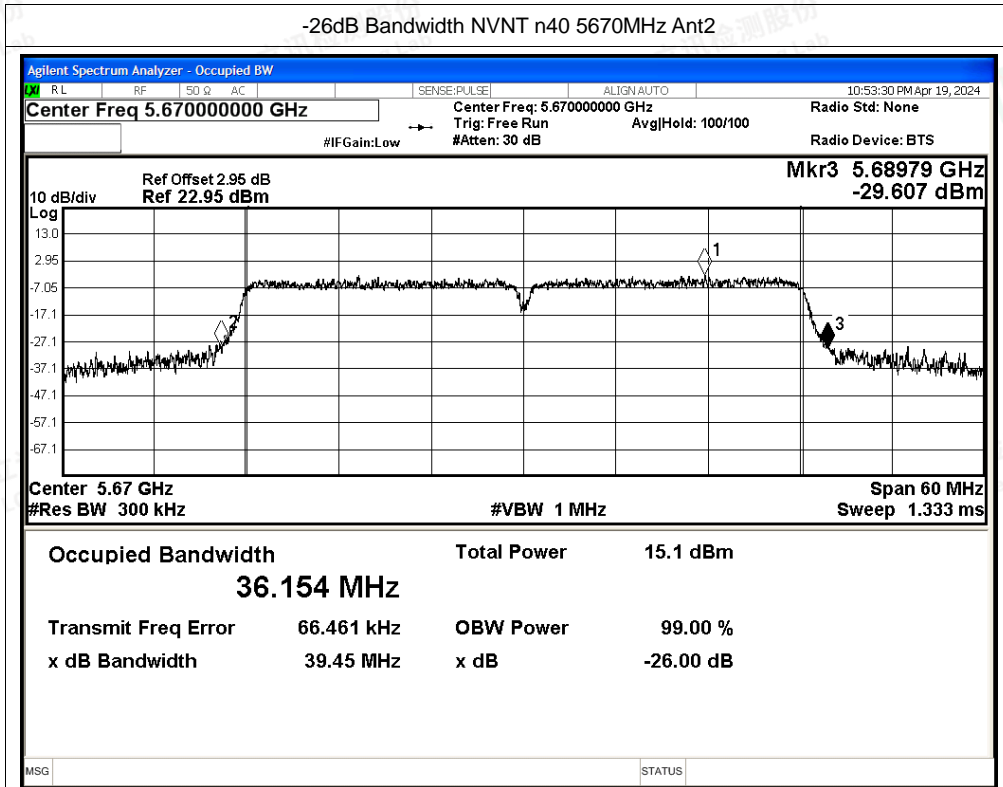


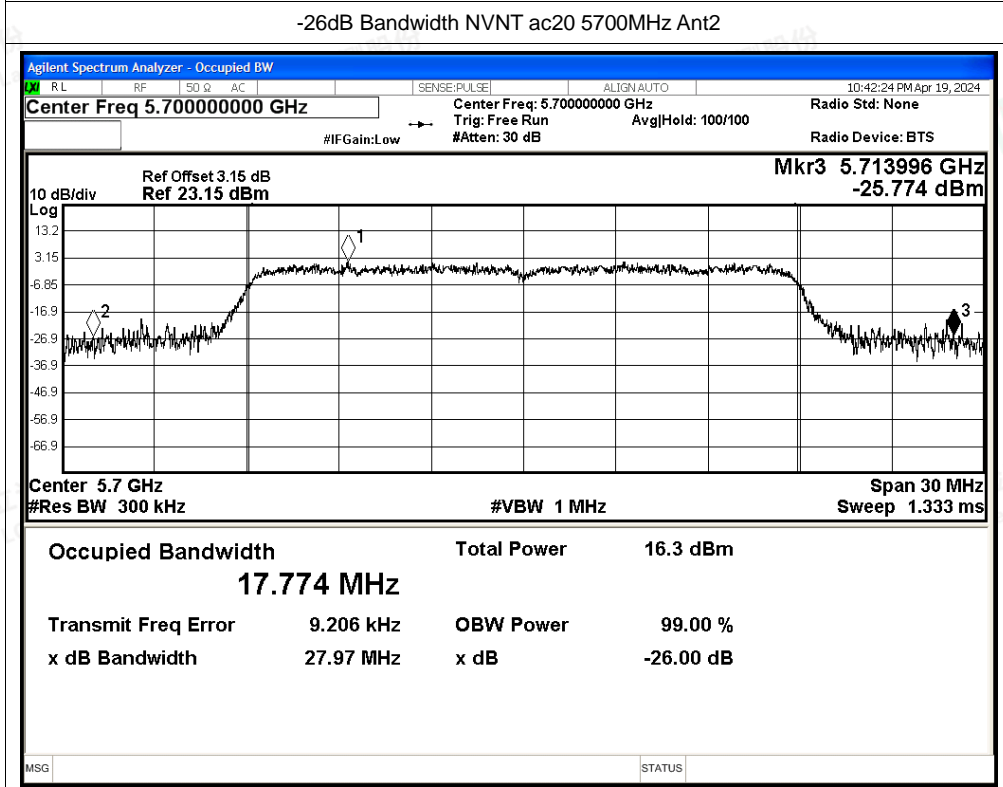
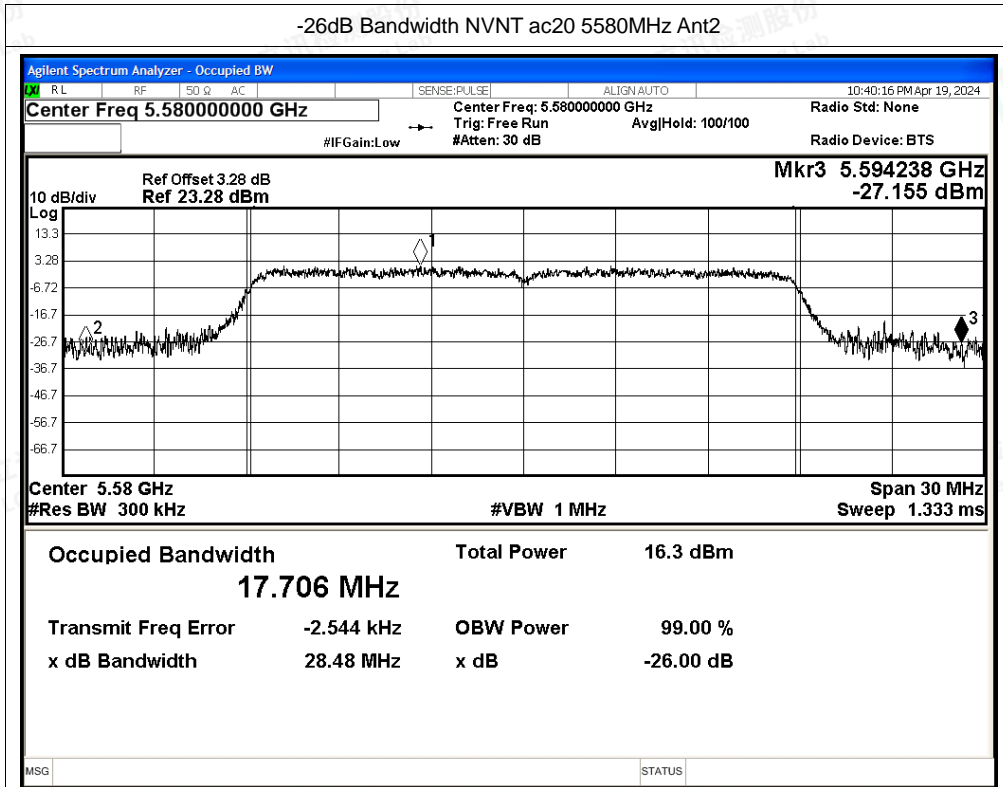






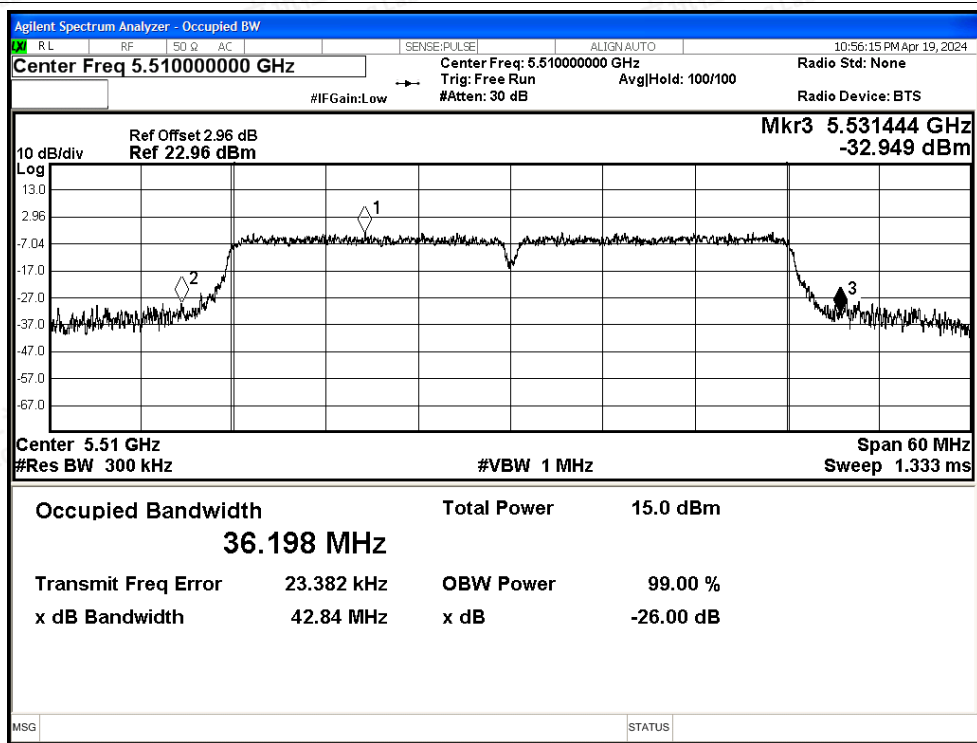




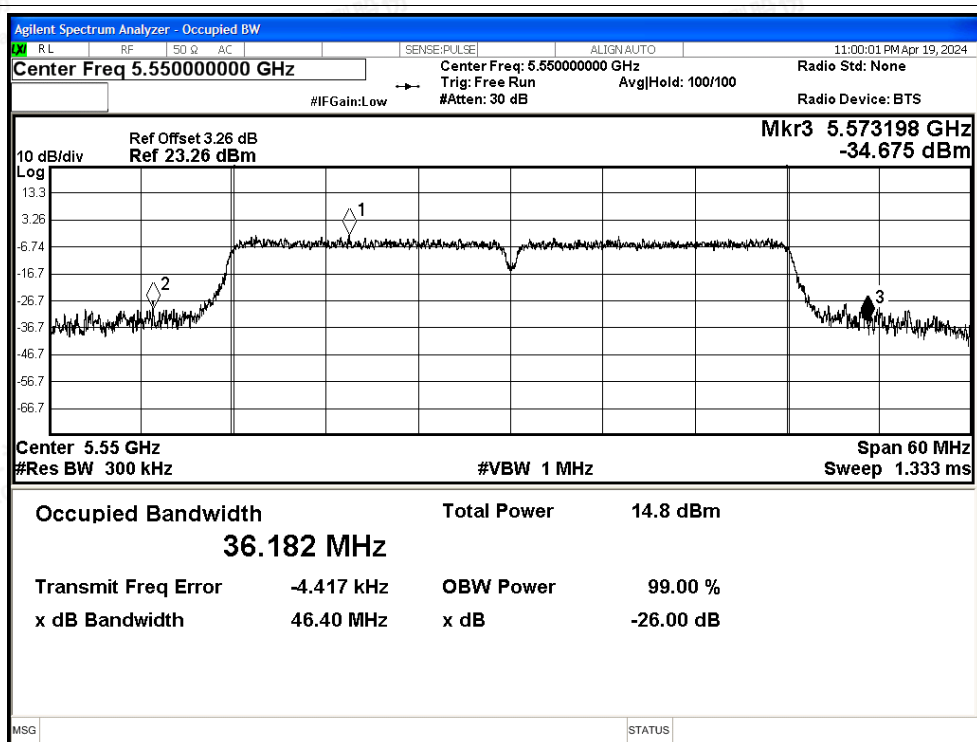




-26dB Bandwidth NVNT ac40 5510MHz Ant2

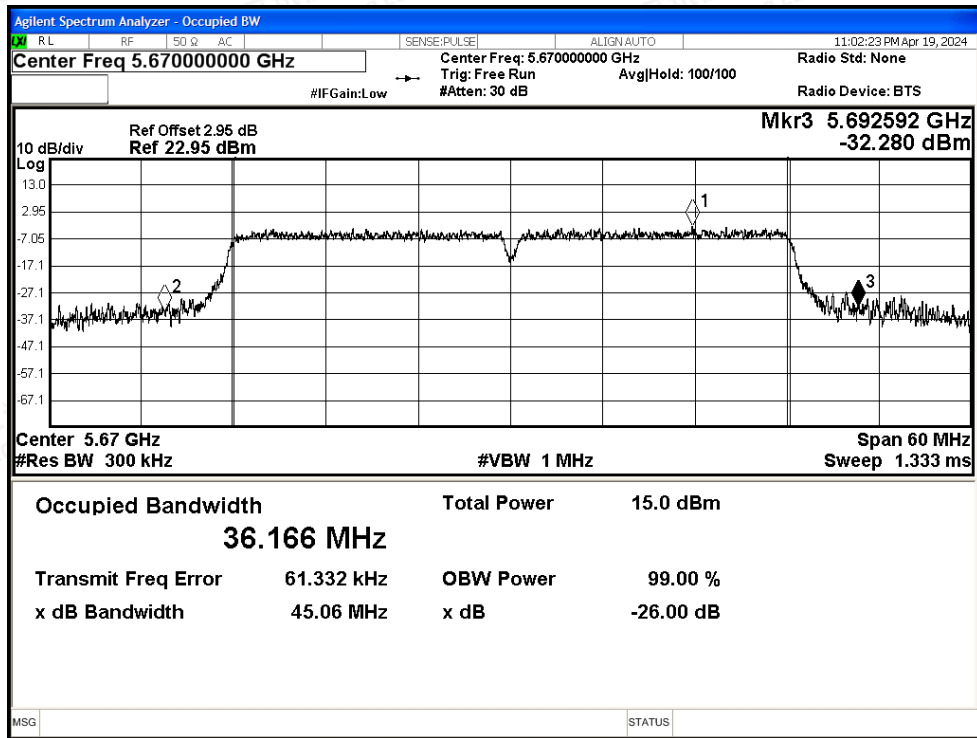


-26dB Bandwidth NVNT ac40 5550MHz Ant2

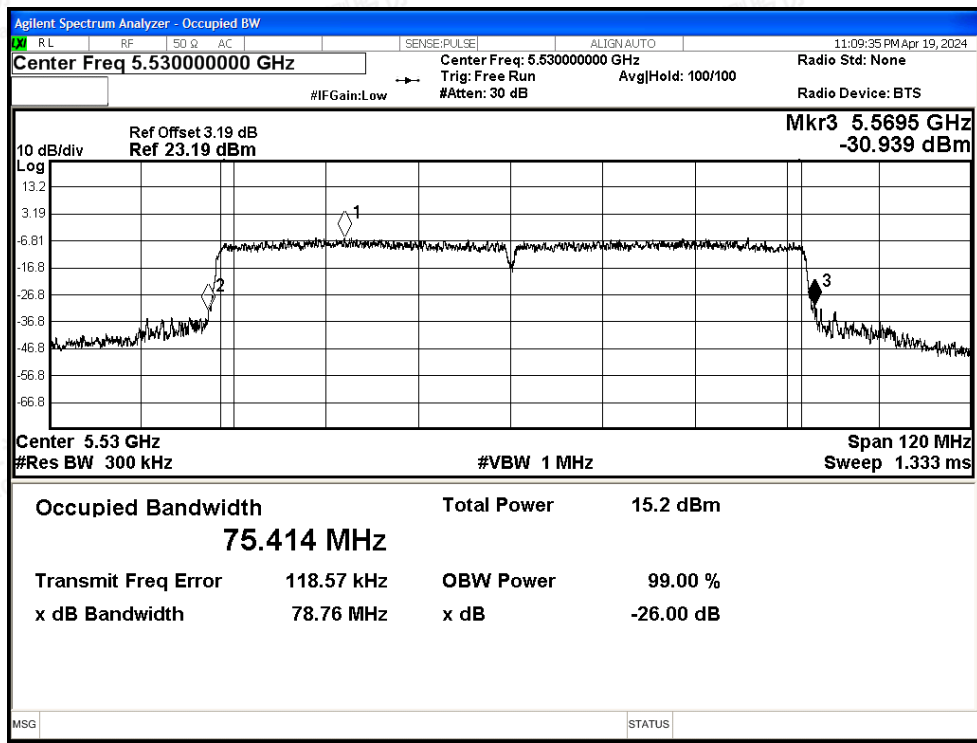


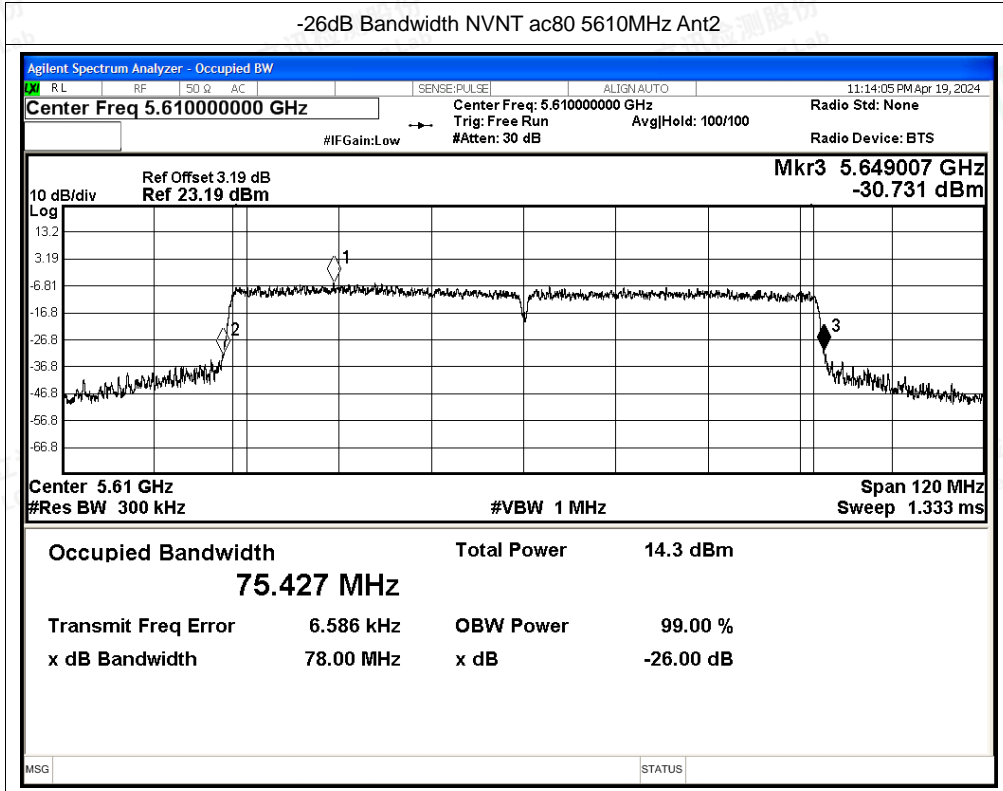


-26dB Bandwidth NVNT ac40 5670MHz Ant2



-26dB Bandwidth NVNT ac80 5530MHz Ant2







### F.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	12.27	0.24	12.51	24	Pass
NVNT	a	5580	Ant1	12.24	0.24	12.48	24	Pass
NVNT	a	5700	Ant1	12.24	0.24	12.48	24	Pass
NVNT	n20	5500	Ant1	11.46	0.28	11.74	24	Pass
NVNT	n20	5580	Ant1	11.61	0.28	11.89	24	Pass
NVNT	n20	5700	Ant1	11.65	0.28	11.93	24	Pass
NVNT	n40	5510	Ant1	10.72	0.24	10.96	24	Pass
NVNT	n40	5550	Ant1	10.77	0.24	11.01	24	Pass
NVNT	n40	5670	Ant1	10.97	0.24	11.21	24	Pass
NVNT	ac20	5500	Ant1	11.51	0.28	11.79	24	Pass
NVNT	ac20	5580	Ant1	11.37	0.28	11.65	24	Pass
NVNT	ac20	5700	Ant1	11.48	0.28	11.76	24	Pass
NVNT	ac40	5510	Ant1	10.96	0.24	11.2	24	Pass
NVNT	ac40	5550	Ant1	10.8	0.24	11.04	24	Pass
NVNT	ac40	5670	Ant1	10.27	0.24	10.51	24	Pass
NVNT	ac80	5530	Ant1	9.86	0.25	10.11	24	Pass
NVNT	ac80	5610	Ant1	9.98	0.25	10.23	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant2	11.3	0.24	11.54	24	Pass
NVNT	a	5580	Ant2	11.19	0.24	11.43	24	Pass
NVNT	a	5700	Ant2	11.17	0.24	11.41	24	Pass
NVNT	n20	5500	Ant2	10.48	0.28	10.76	24	Pass
NVNT	n20	5580	Ant2	10.55	0.28	10.83	24	Pass
NVNT	n20	5700	Ant2	10.64	0.28	10.92	24	Pass
NVNT	n40	5510	Ant2	9.86	0.24	10.1	24	Pass
NVNT	n40	5550	Ant2	9.1	0.24	9.34	24	Pass
NVNT	n40	5670	Ant2	9.29	0.24	9.53	24	Pass
NVNT	ac20	5500	Ant2	10.61	0.28	10.89	24	Pass
NVNT	ac20	5580	Ant2	10.66	0.28	10.94	24	Pass
NVNT	ac20	5700	Ant2	10.67	0.28	10.95	24	Pass
NVNT	ac40	5510	Ant2	9.27	0.24	9.51	24	Pass
NVNT	ac40	5550	Ant2	9.07	0.24	9.31	24	Pass
NVNT	ac40	5670	Ant2	9.32	0.24	9.56	24	Pass
NVNT	ac80	5530	Ant2	8.89	0.25	9.14	24	Pass
NVNT	ac80	5610	Ant2	8.25	0.25	8.5	24	Pass



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Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5500	11.74	10.76	14.29	24	Pass
NVNT	n20	5580	11.89	10.83	14.40	24	Pass
NVNT	n20	5700	11.93	10.92	14.46	24	Pass
NVNT	n40	5510	10.96	10.1	13.56	24	Pass
NVNT	n40	5550	11.01	9.34	13.27	24	Pass
NVNT	n40	5670	11.21	9.53	13.46	24	Pass
NVNT	ac20	5500	11.79	10.89	14.37	24	Pass
NVNT	ac20	5580	11.65	10.94	14.32	24	Pass
NVNT	ac20	5700	11.76	10.95	14.38	24	Pass
NVNT	ac40	5510	11.2	9.51	13.45	24	Pass
NVNT	ac40	5550	11.04	9.31	13.27	24	Pass
NVNT	ac40	5670	10.51	9.56	13.07	24	Pass
NVNT	ac80	5530	10.11	9.14	12.66	24	Pass
NVNT	ac80	5610	10.23	8.5	12.46	24	Pass



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### F.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant1	1.65	0.24	1.89	11	Pass
NVNT	a	5580	Ant1	1.9	0.24	2.14	11	Pass
NVNT	a	5700	Ant1	1.65	0.24	1.89	11	Pass
NVNT	n20	5500	Ant1	0.73	0.28	1.01	11	Pass
NVNT	n20	5580	Ant1	0.98	0.28	1.26	11	Pass
NVNT	n20	5700	Ant1	0.84	0.28	1.12	11	Pass
NVNT	n40	5510	Ant1	-2.66	0.24	-2.42	11	Pass
NVNT	n40	5550	Ant1	-3.09	0.24	-2.85	11	Pass
NVNT	n40	5670	Ant1	-2.71	0.24	-2.47	11	Pass
NVNT	ac20	5500	Ant1	0.75	0.28	1.03	11	Pass
NVNT	ac20	5580	Ant1	0.62	0.28	0.9	11	Pass
NVNT	ac20	5700	Ant1	0.69	0.28	0.97	11	Pass
NVNT	ac40	5510	Ant1	-2.71	0.24	-2.47	11	Pass
NVNT	ac40	5550	Ant1	-3.06	0.24	-2.82	11	Pass
NVNT	ac40	5670	Ant1	-3.62	0.24	-3.38	11	Pass
NVNT	ac80	5530	Ant1	-6.61	0.25	-6.36	11	Pass
NVNT	ac80	5610	Ant1	-6.01	0.25	-5.76	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant2	0.66	0.24	0.9	11	Pass
NVNT	a	5580	Ant2	0.88	0.24	1.12	11	Pass
NVNT	a	5700	Ant2	0.84	0.24	1.08	11	Pass
NVNT	n20	5500	Ant2	-0.36	0.28	-0.08	11	Pass
NVNT	n20	5580	Ant2	-0.23	0.28	0.05	11	Pass
NVNT	n20	5700	Ant2	-0.02	0.28	0.26	11	Pass
NVNT	n40	5510	Ant2	-3.1	0.24	-2.86	11	Pass
NVNT	n40	5550	Ant2	-4.54	0.24	-4.3	11	Pass
NVNT	n40	5670	Ant2	-4.41	0.24	-4.17	11	Pass
NVNT	ac20	5500	Ant2	-0.18	0.28	0.1	11	Pass
NVNT	ac20	5580	Ant2	-0.08	0.28	0.2	11	Pass
NVNT	ac20	5700	Ant2	-0.27	0.28	0.01	11	Pass
NVNT	ac40	5510	Ant2	-4.38	0.24	-4.14	11	Pass
NVNT	ac40	5550	Ant2	-4.62	0.24	-4.38	11	Pass
NVNT	ac40	5670	Ant2	-4.49	0.24	-4.25	11	Pass
NVNT	ac80	5530	Ant2	-7.68	0.25	-7.43	11	Pass
NVNT	ac80	5610	Ant2	-7.79	0.25	-7.54	11	Pass



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Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5500	1.01	-0.08	3.51	11	Pass
NVNT	n20	5580	1.26	0.05	3.71	11	Pass
NVNT	n20	5700	1.12	0.26	3.72	11	Pass
NVNT	n40	5510	-2.42	-2.86	0.38	11	Pass
NVNT	n40	5550	-2.85	-4.3	-0.50	11	Pass
NVNT	n40	5670	-2.47	-4.17	-0.23	11	Pass
NVNT	ac20	5500	1.03	0.1	3.60	11	Pass
NVNT	ac20	5580	0.9	0.2	3.57	11	Pass
NVNT	ac20	5700	0.97	0.01	3.53	11	Pass
NVNT	ac40	5510	-2.47	-4.14	-0.21	11	Pass
NVNT	ac40	5550	-2.82	-4.38	-0.52	11	Pass
NVNT	ac40	5670	-3.38	-4.25	-0.78	11	Pass
NVNT	ac80	5530	-6.36	-7.43	-3.85	11	Pass
NVNT	ac80	5610	-5.76	-7.54	-3.55	11	Pass

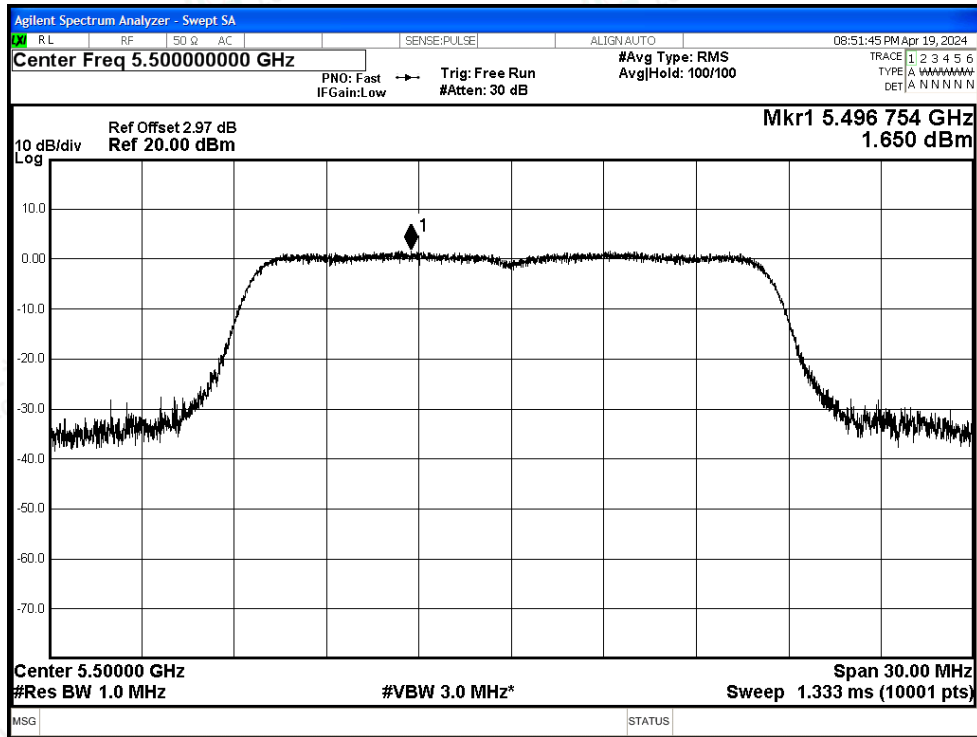


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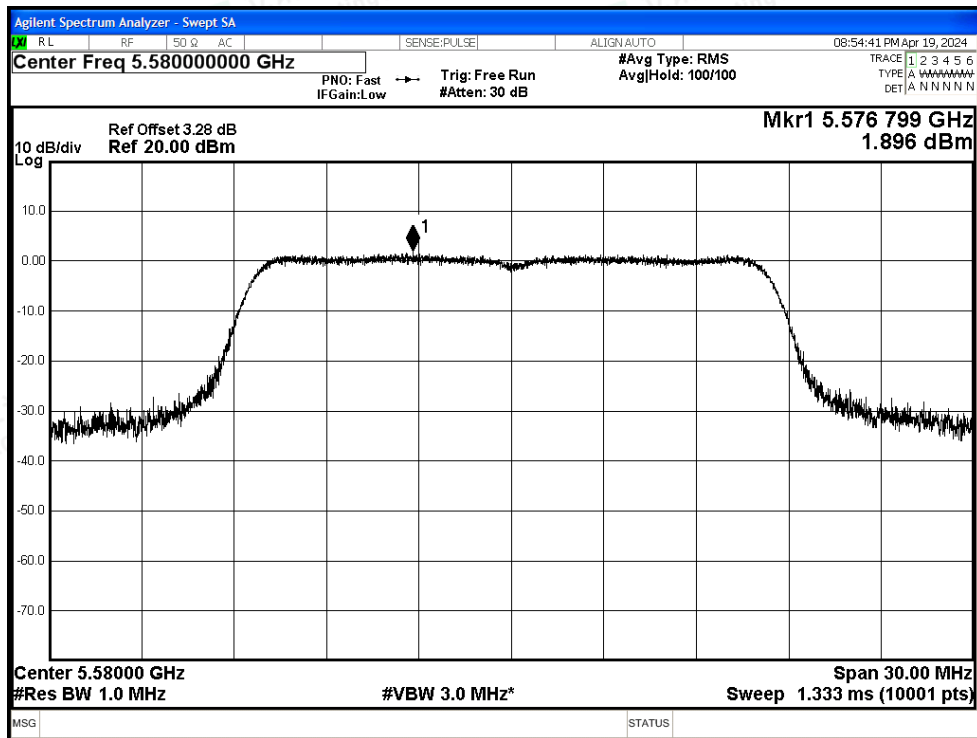


Test Graphs

PSD NVNT a 5500MHz Ant1

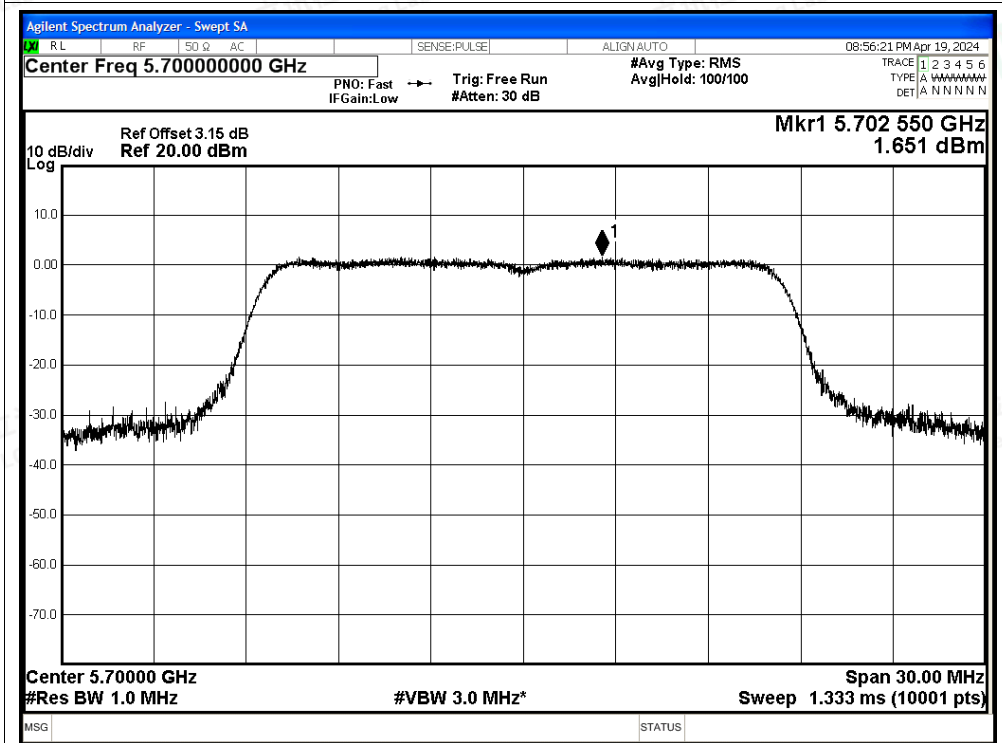


PSD NVNT a 5580MHz Ant1

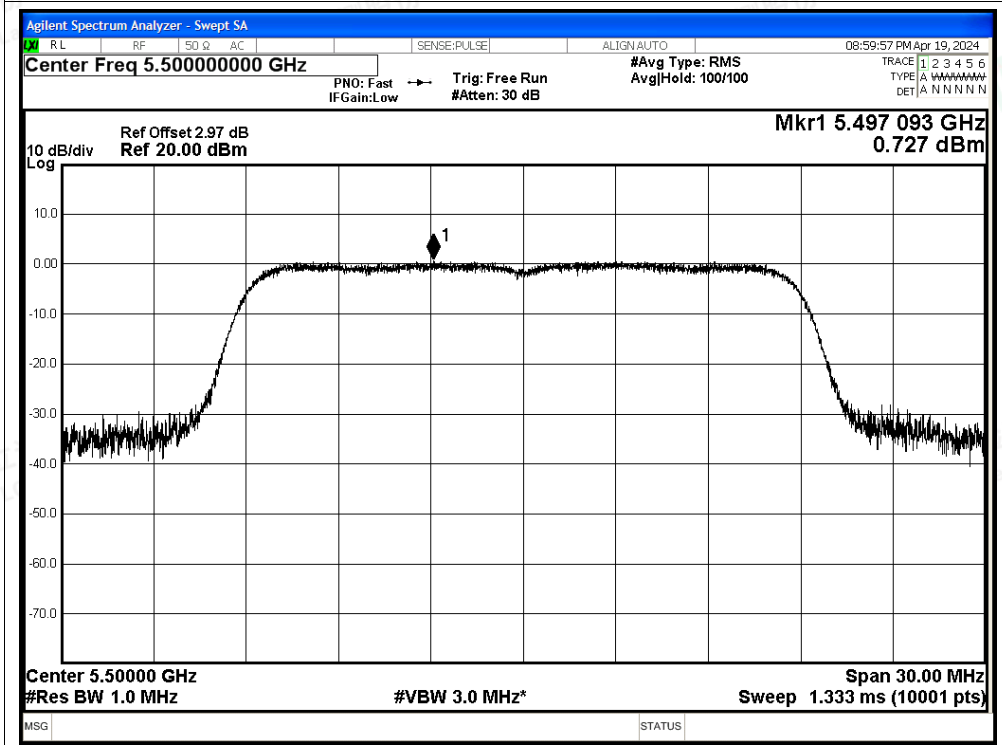


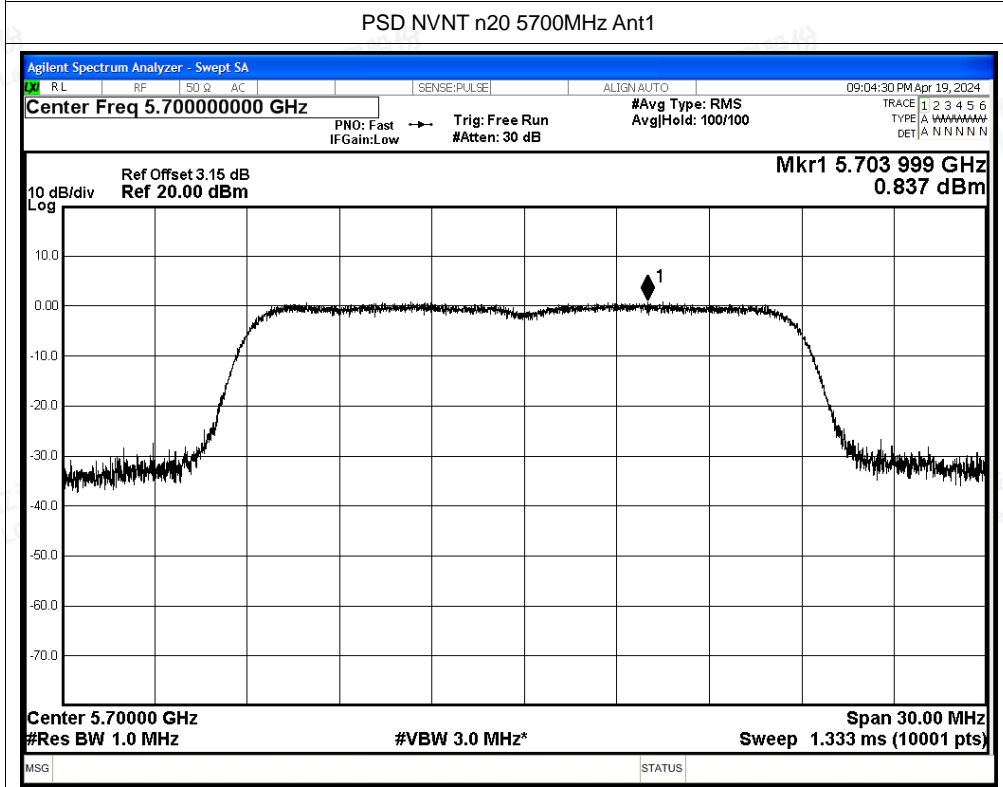
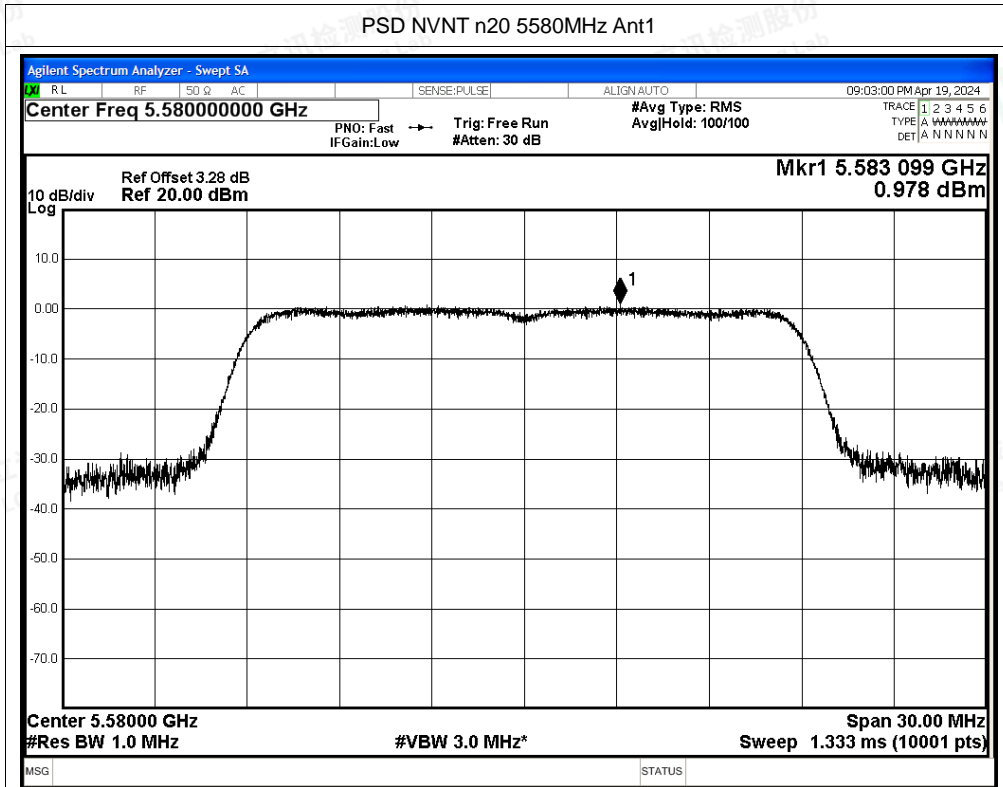


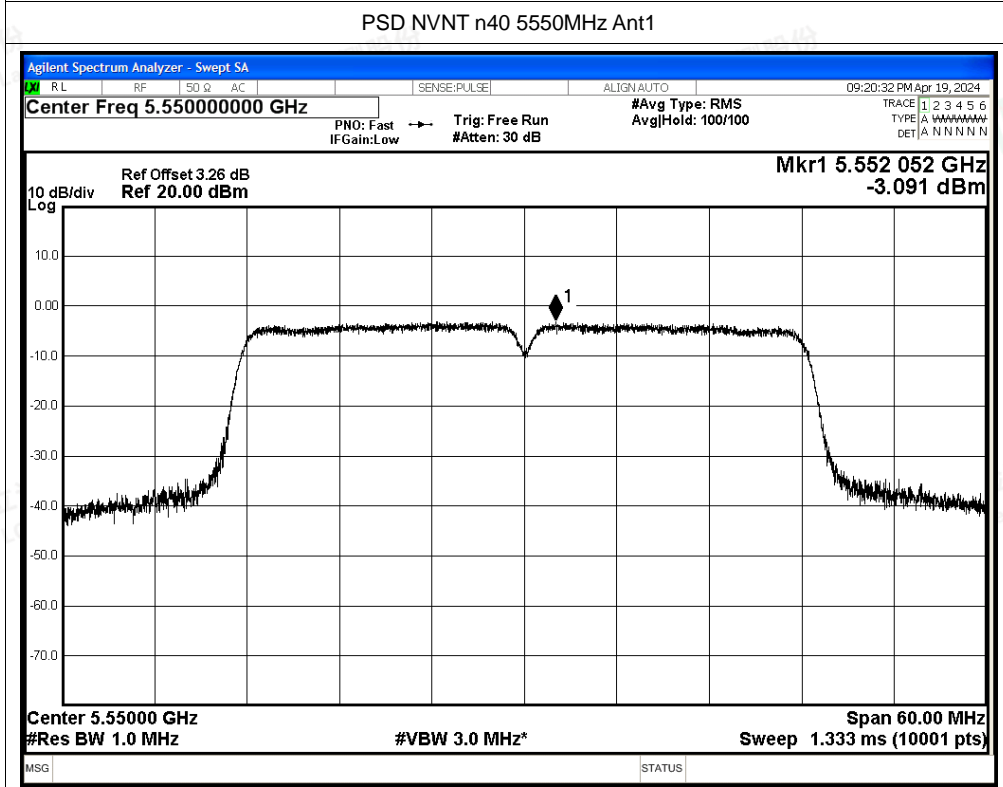
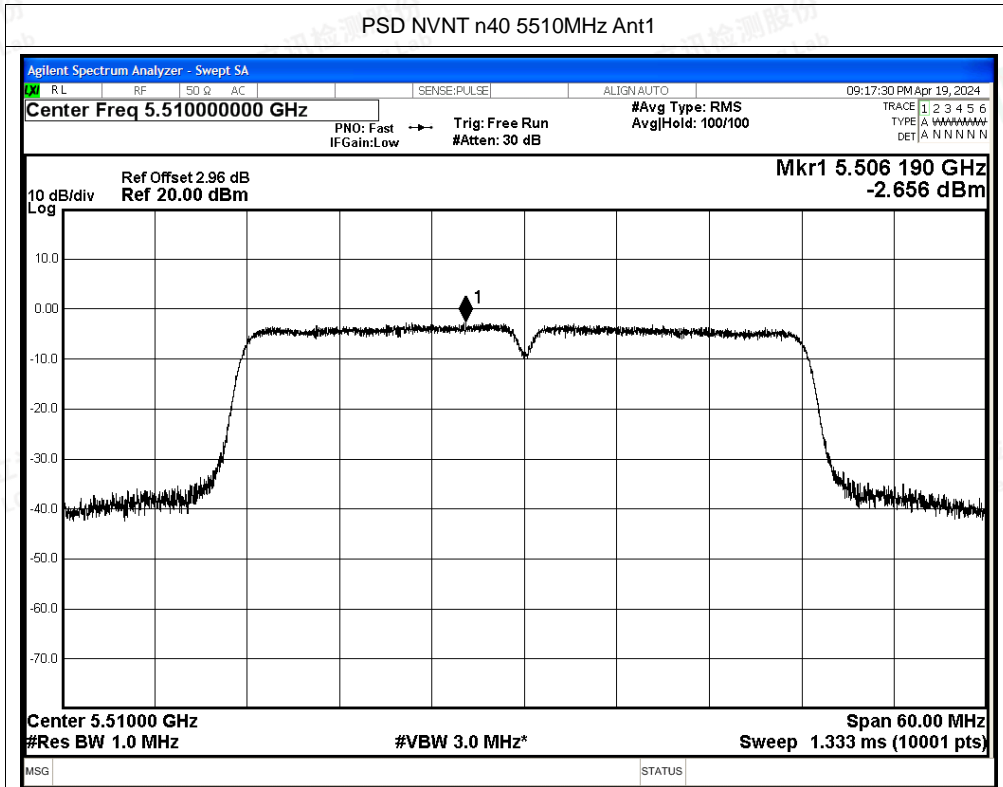
PSD NVNT a 5700MHz Ant1

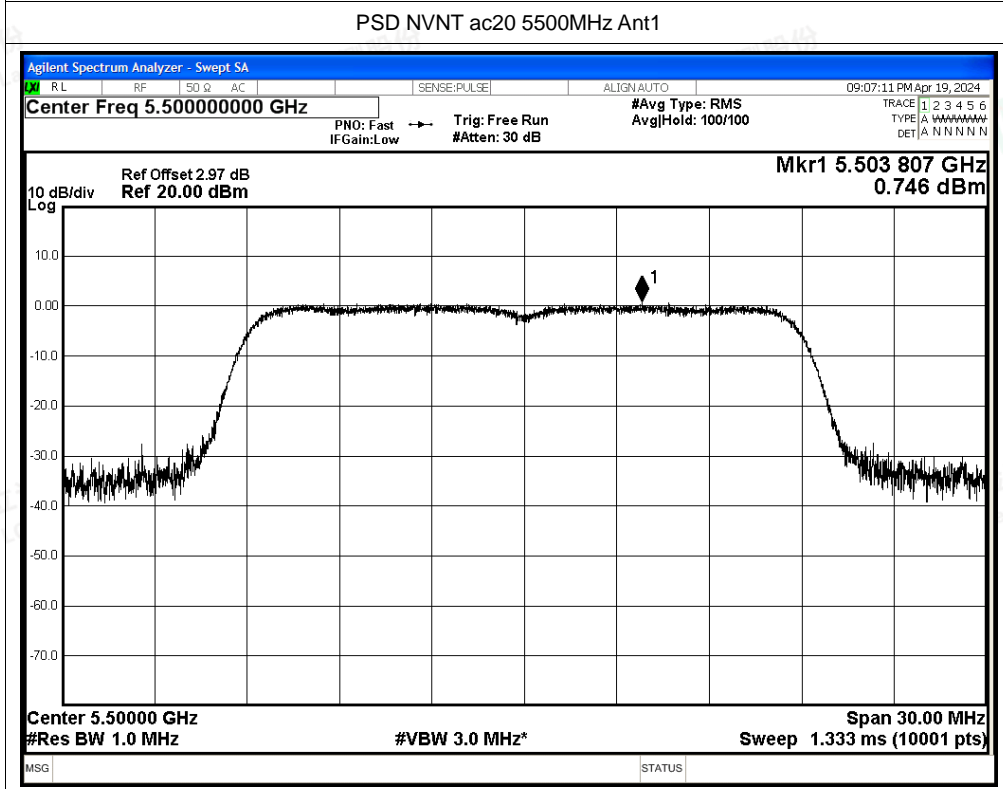
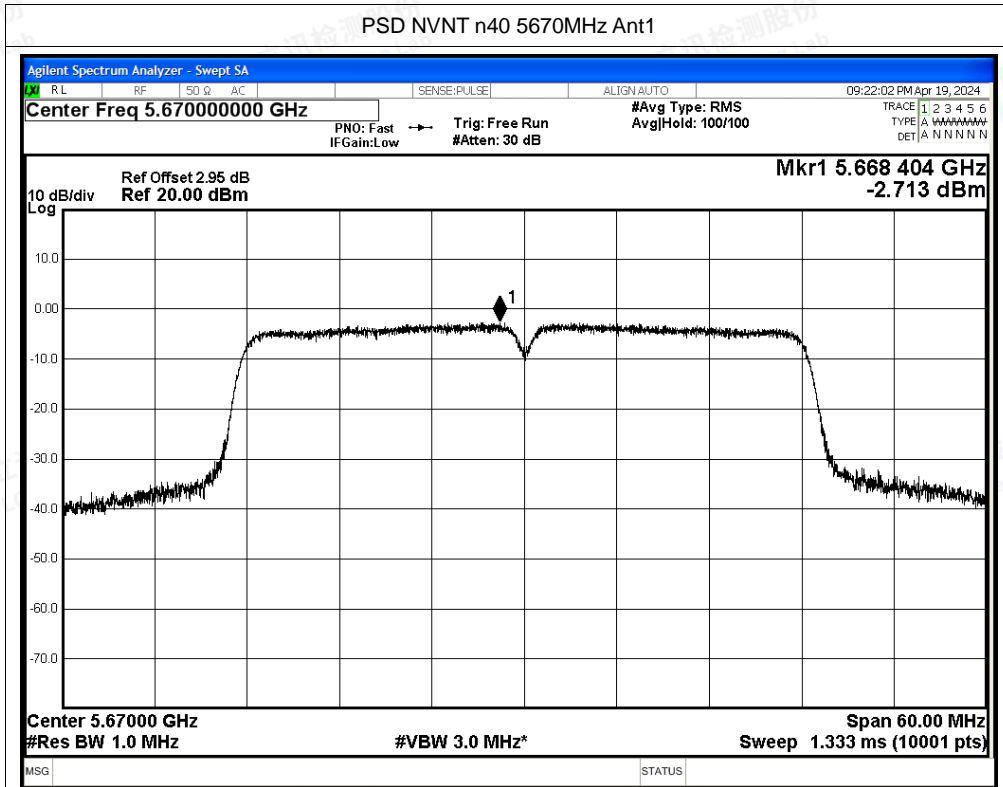


PSD NVNT n20 5500MHz Ant1



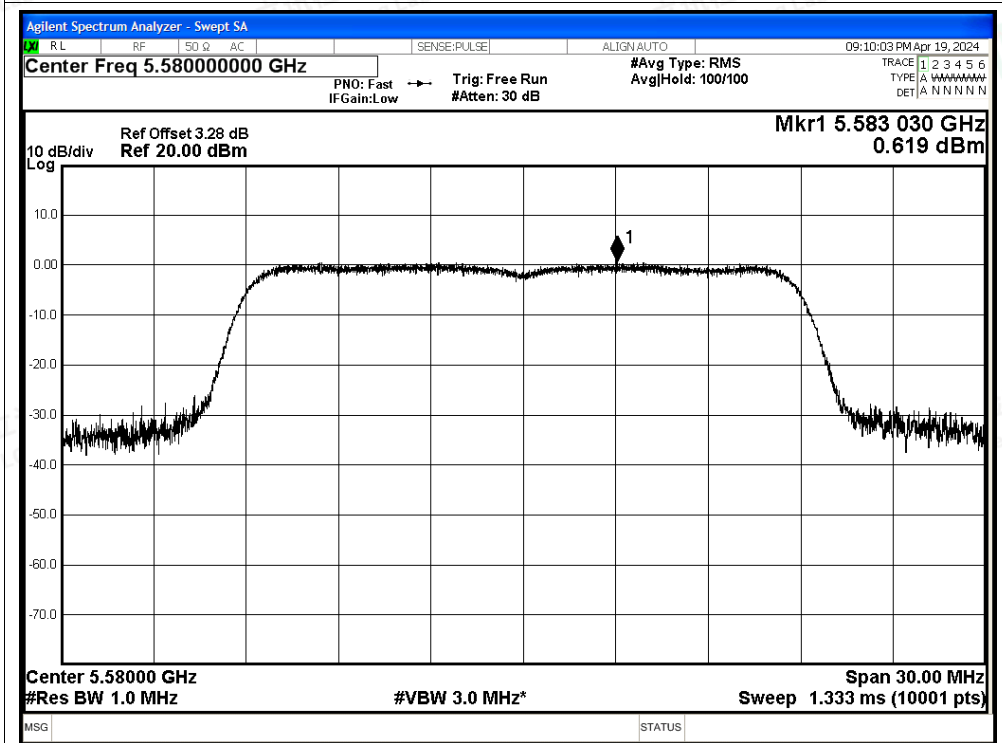




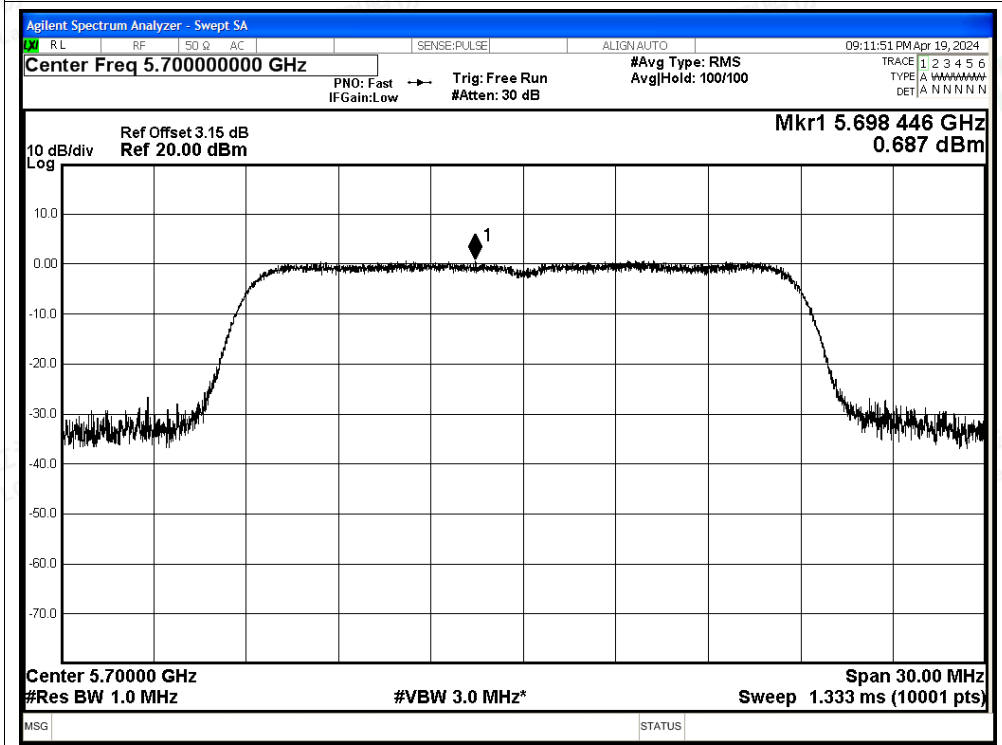




PSD NVNT ac20 5580MHz Ant1

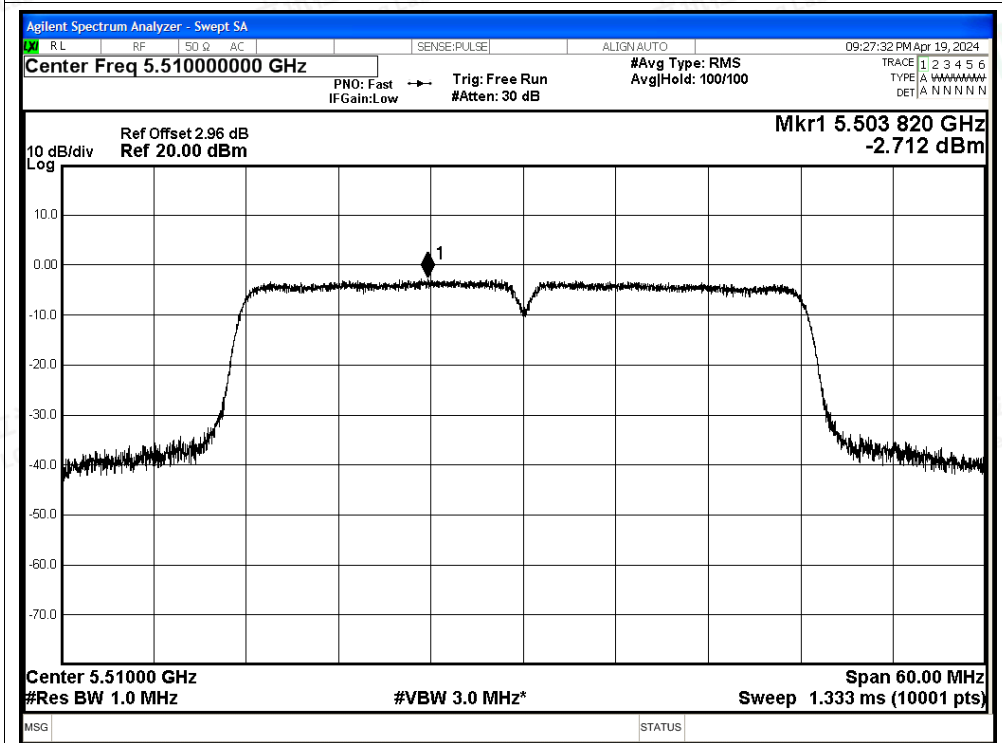


PSD NVNT ac20 5700MHz Ant1

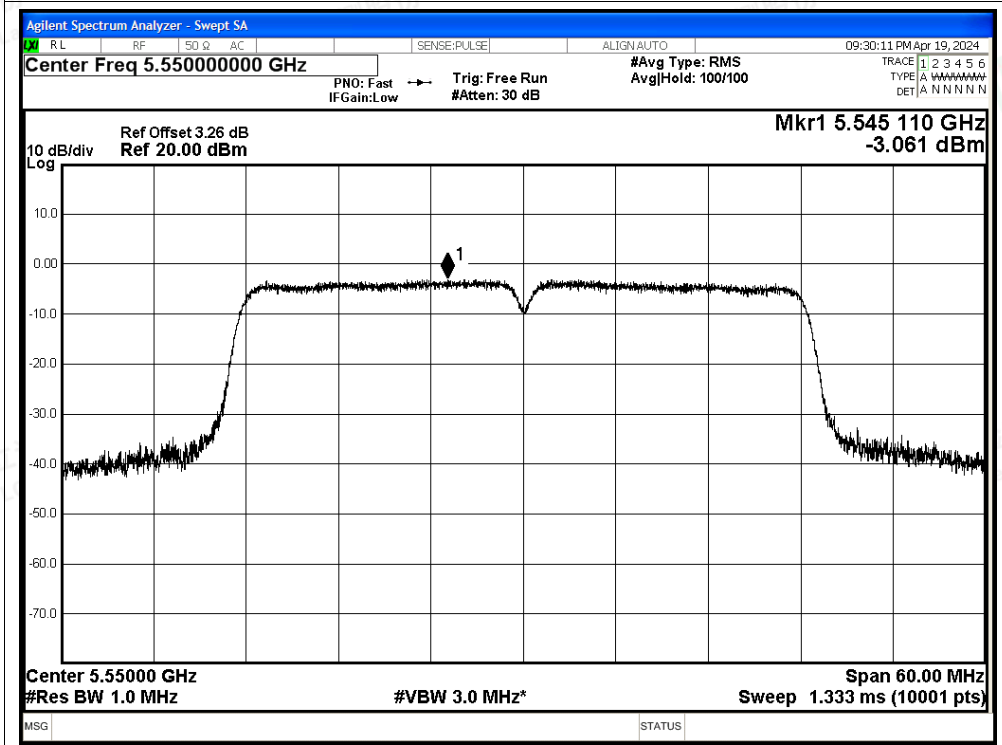




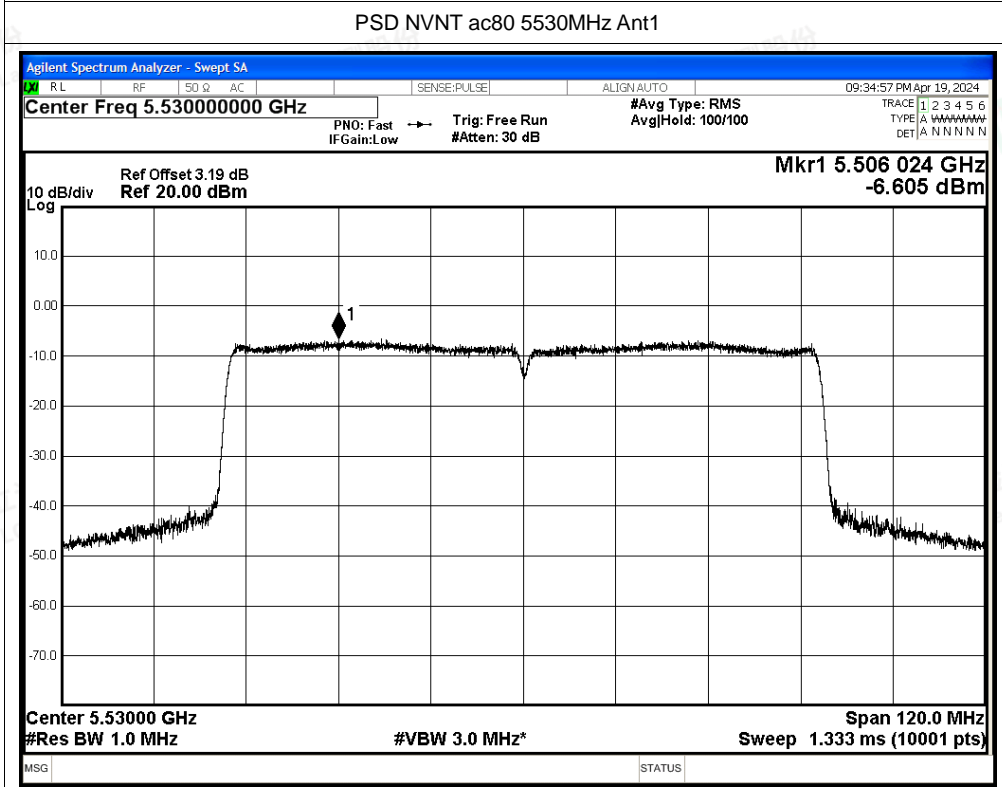
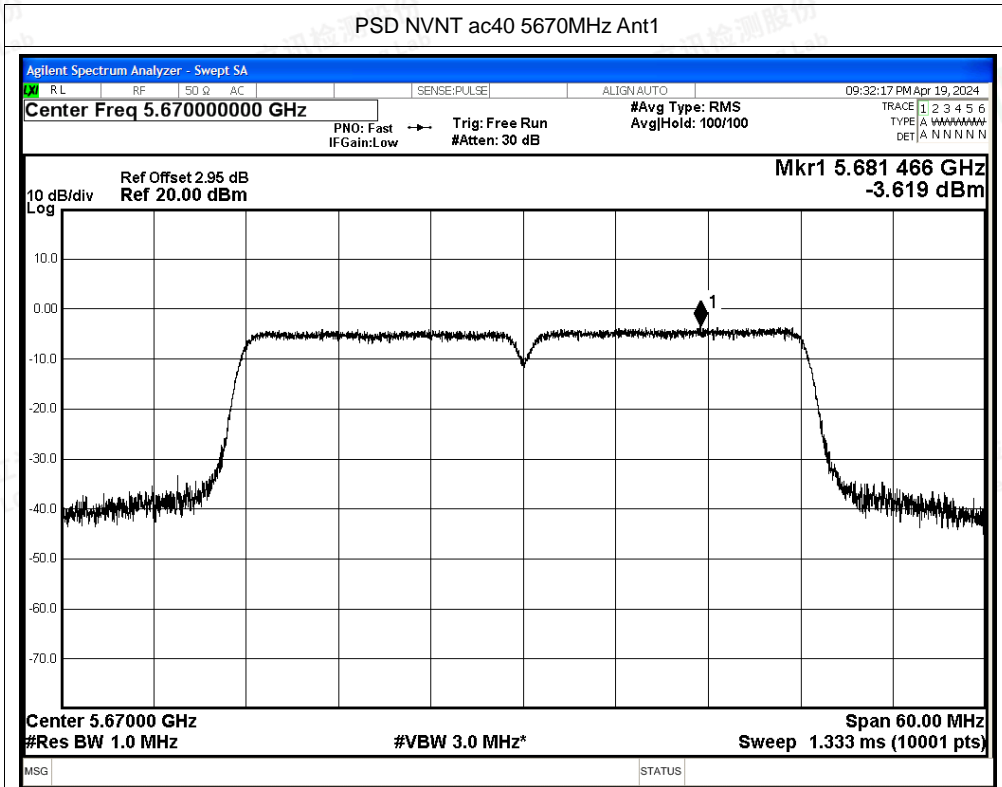
PSD NVNT ac40 5510MHz Ant1

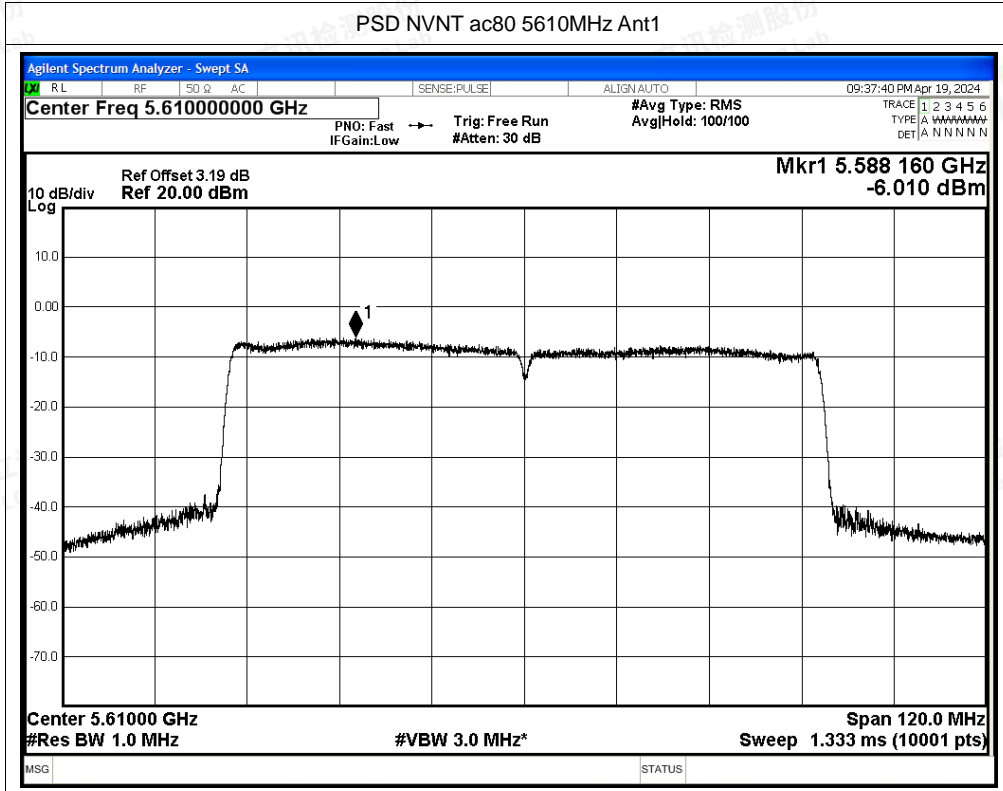


PSD NVNT ac40 5550MHz Ant1







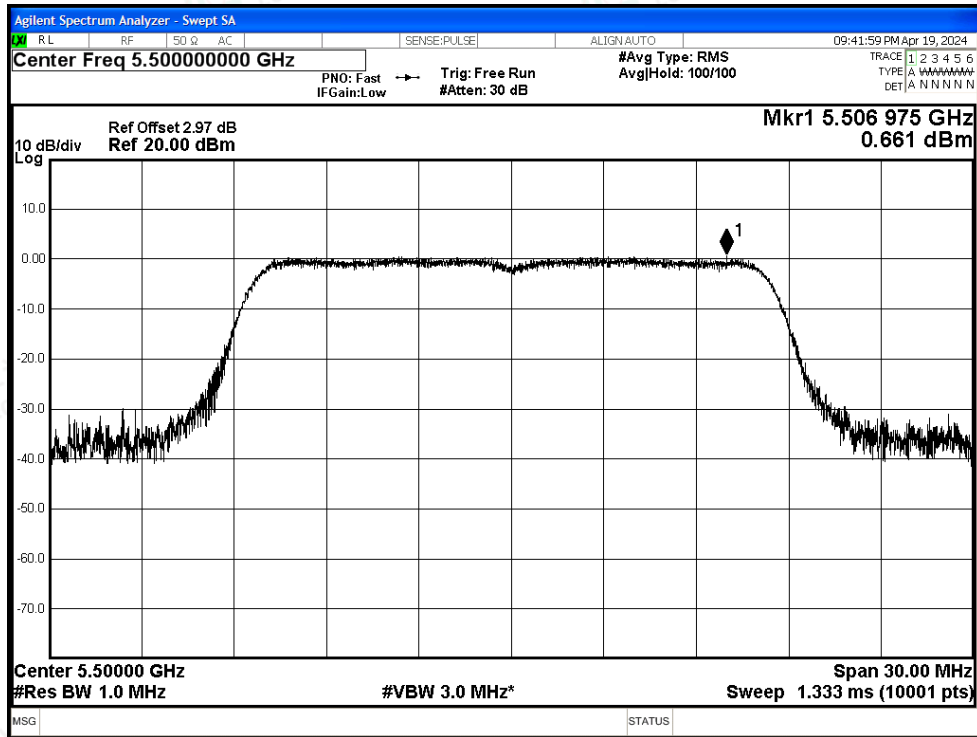


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

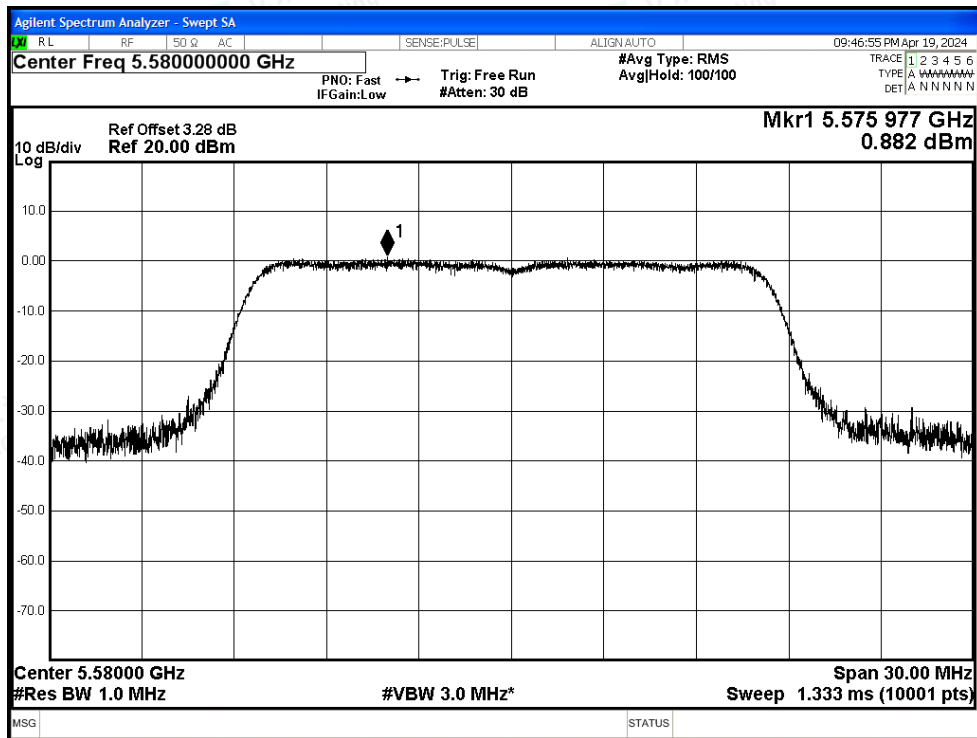


Test Graphs

PSD NVNT a 5500MHz Ant2

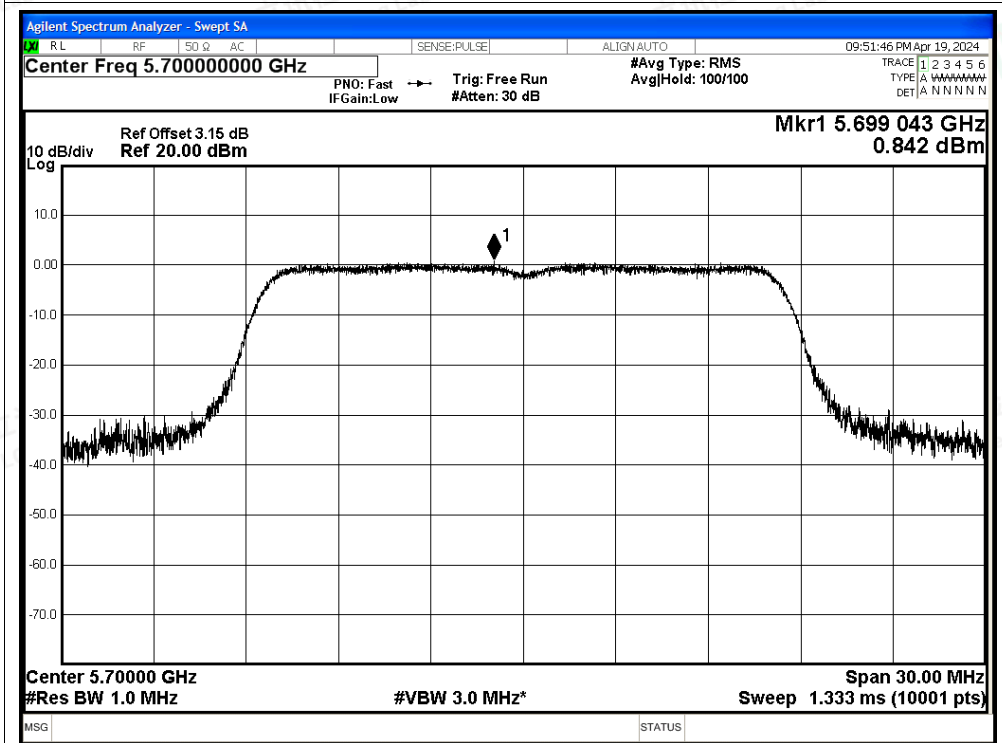


PSD NVNT a 5580MHz Ant2

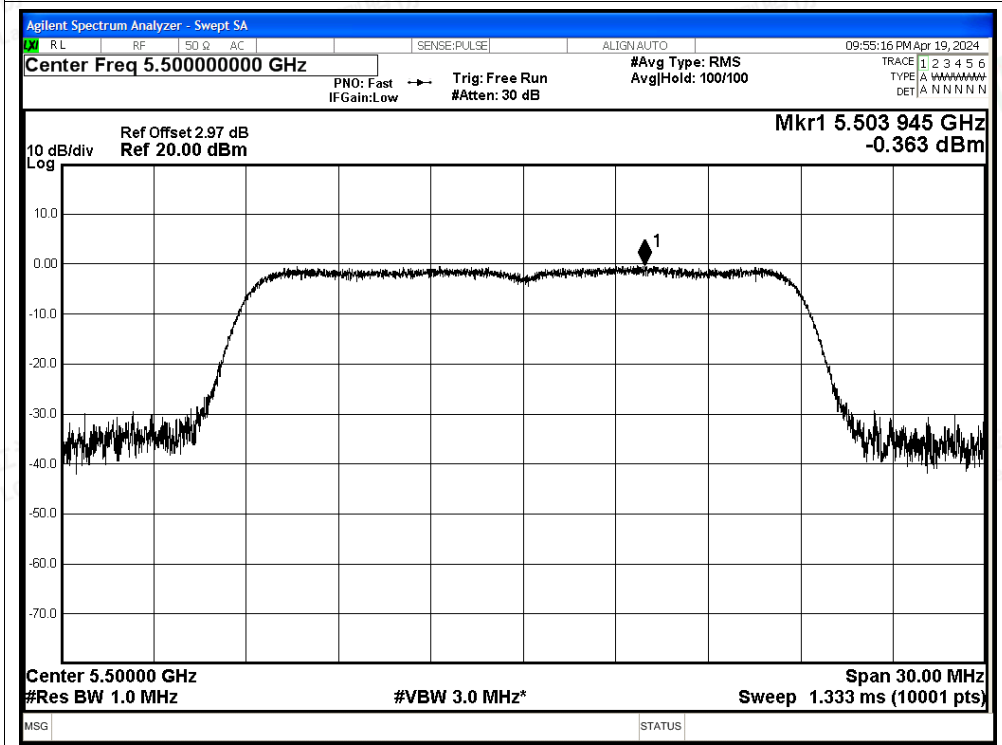


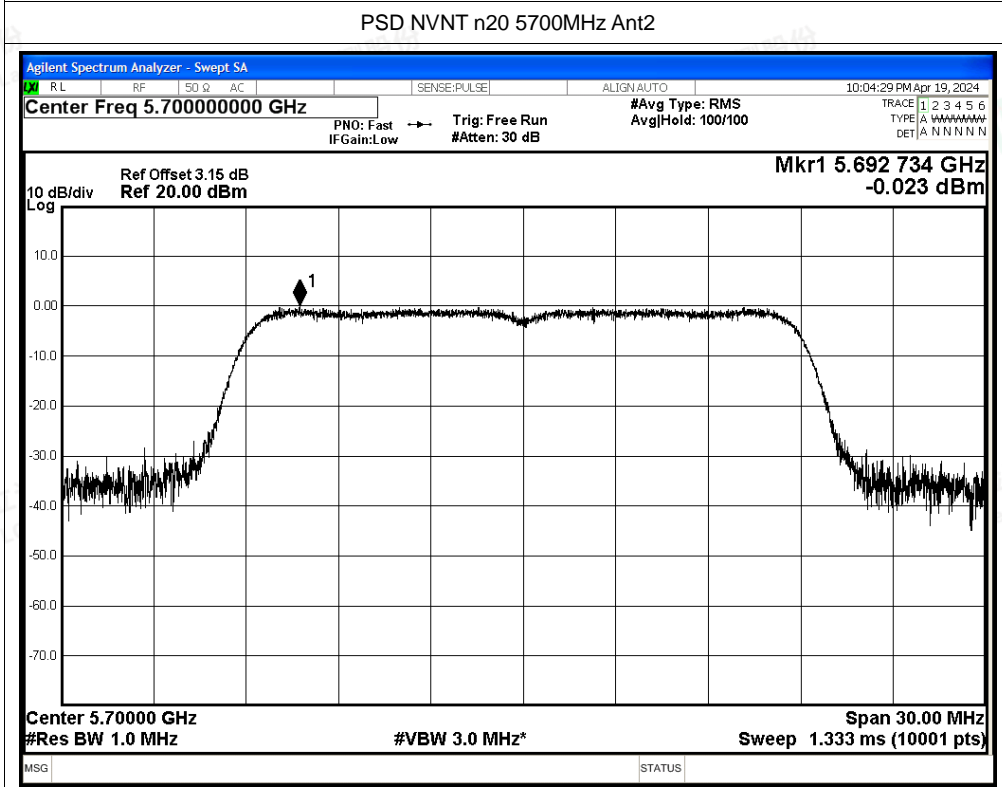
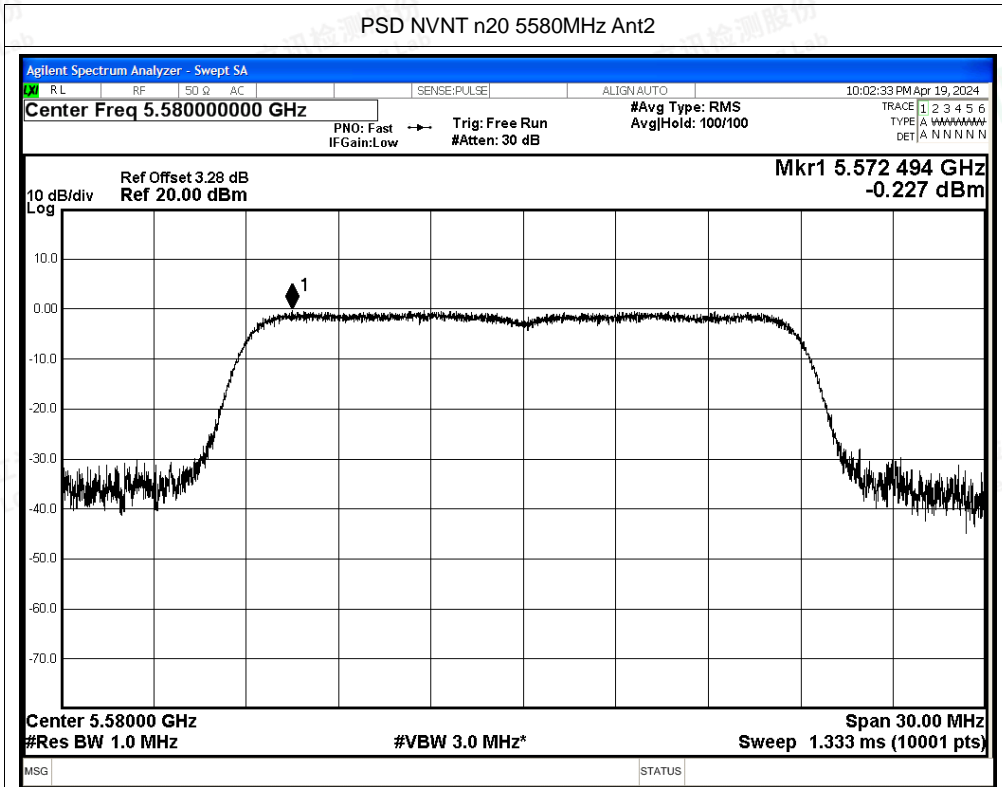


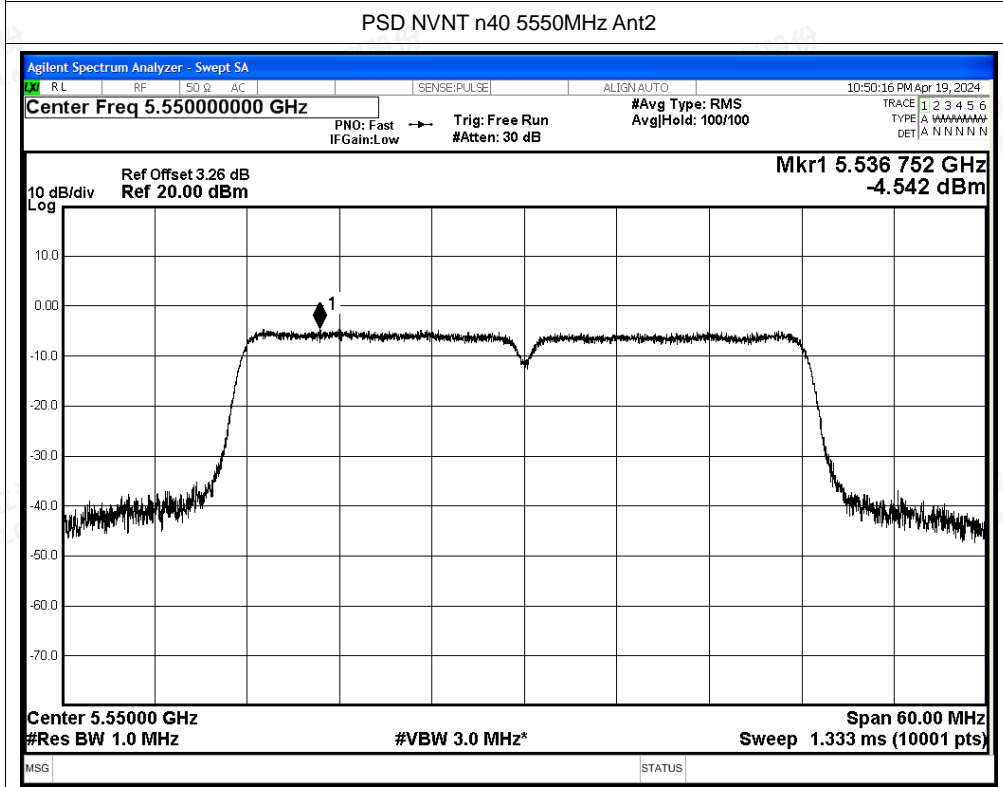
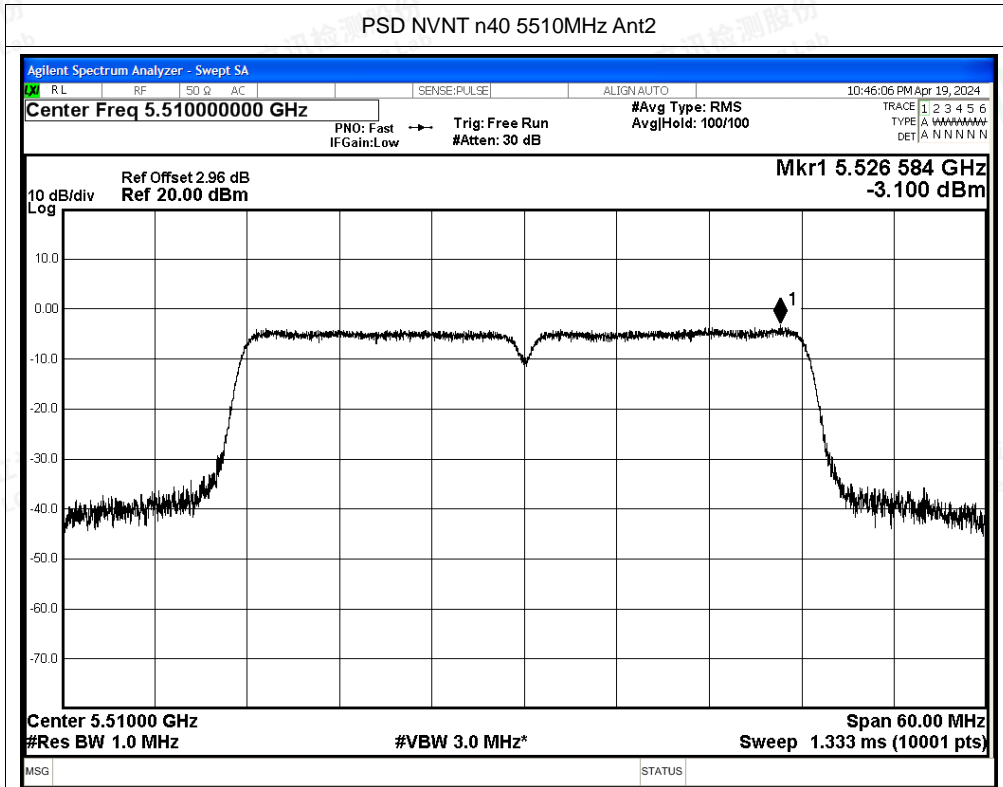
PSD NVNT a 5700MHz Ant2

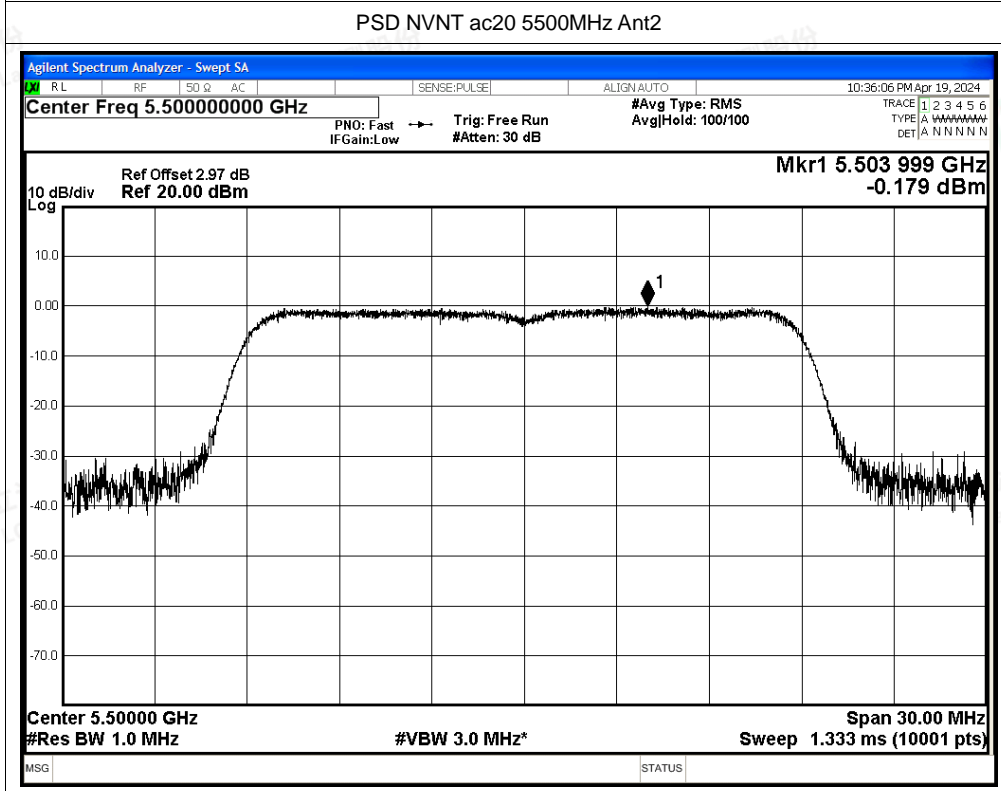
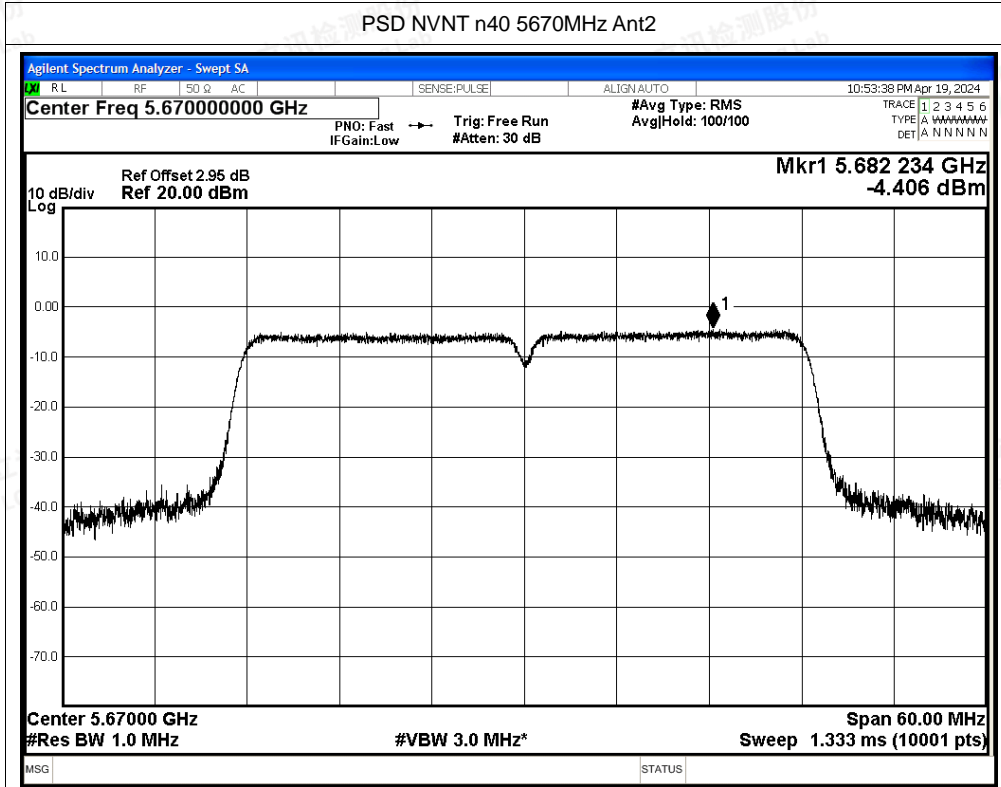


PSD NVNT n20 5500MHz Ant2



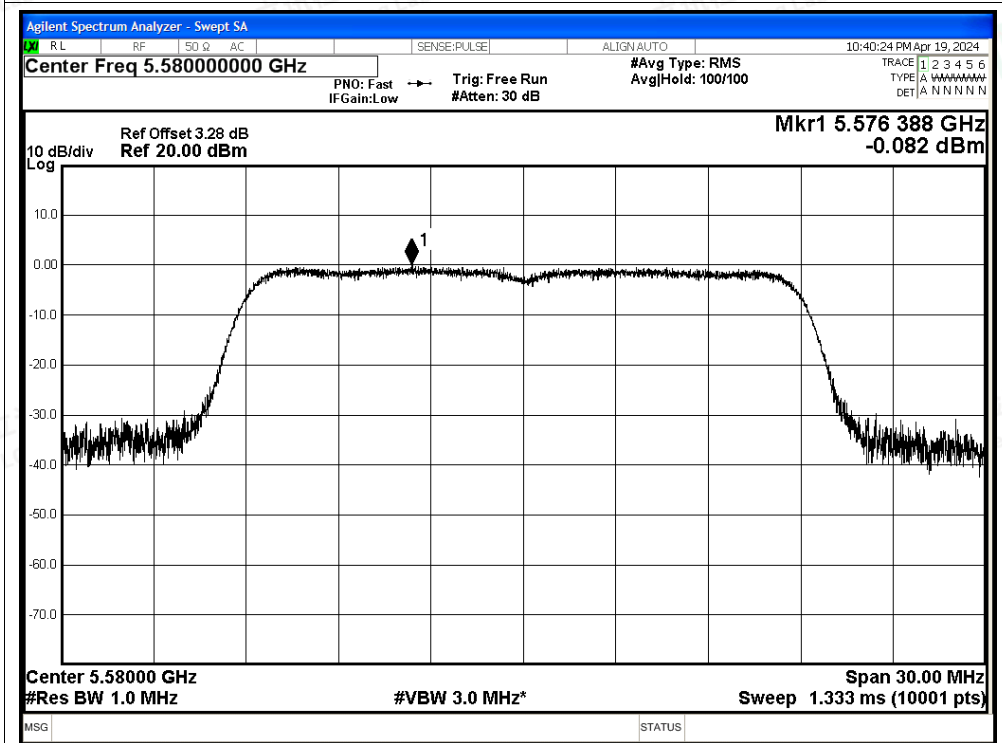




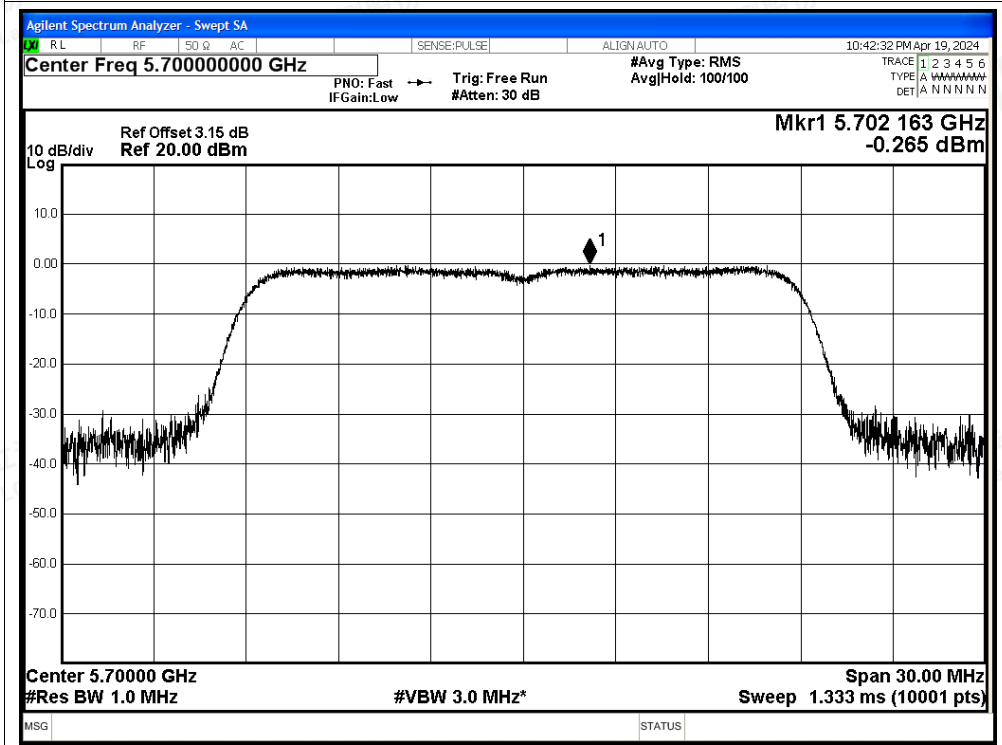




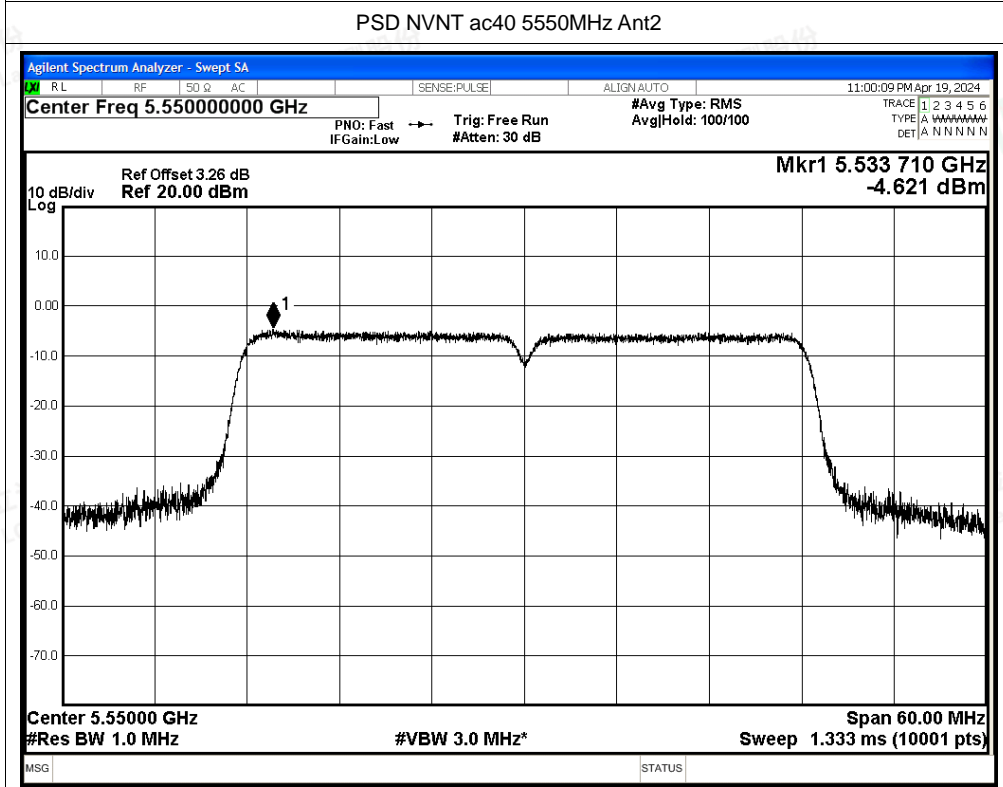
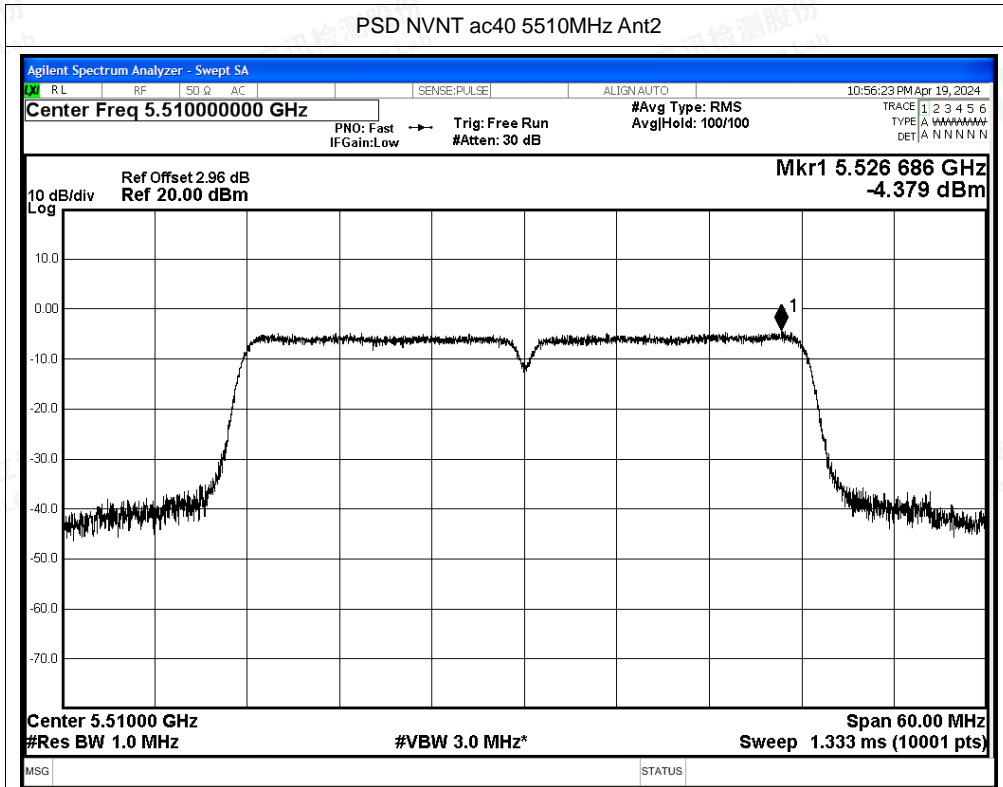
PSD NVNT ac20 5580MHz Ant2

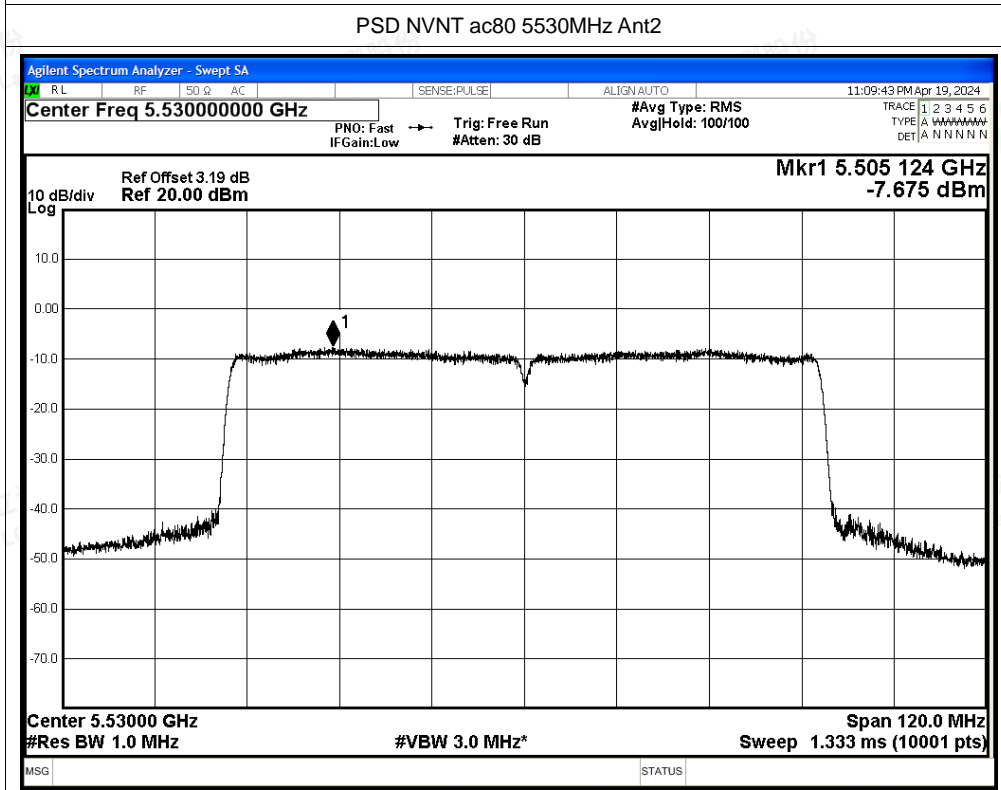
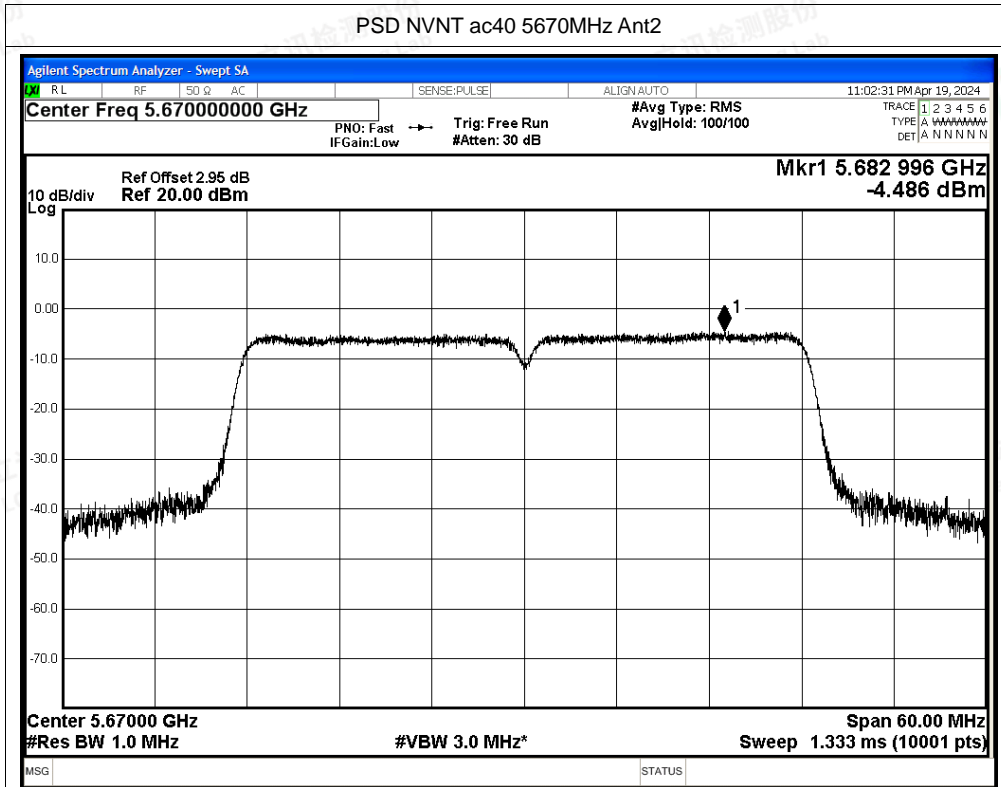


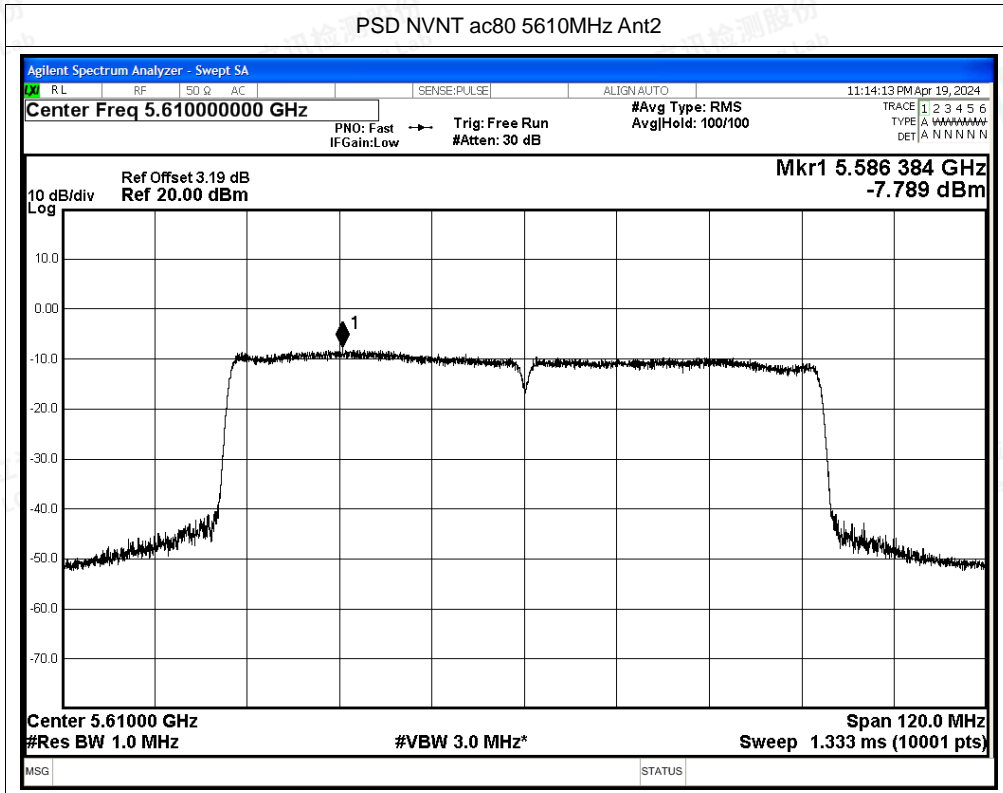
PSD NVNT ac20 5700MHz Ant2













## F.5 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a Ant1	5500	5460	-50.49	2.59	-	47.33	Peak	68.2	Pass
NVNT	a Ant1	5500	5460	-57.18	2.59	0.24	40.88	Average	54	Pass
NVNT	a Ant1	5500	5463.6	-45.14	2.59	-	52.68	Peak	68.2	Pass
NVNT	a Ant1	5500	5469.2	-55.5	2.59	0.24	42.56	Average	54	Pass
NVNT	a Ant1	5500	5470	-47.82	2.59	-	50	Peak	68.2	Pass
NVNT	a Ant1	5500	5470	-56.56	2.59	0.24	41.5	Average	54	Pass
NVNT	a Ant1	5700	5725	-40.73	2.59	-	57.09	Peak	68.2	Pass
NVNT	a Ant1	5700	5725	-53.58	2.59	0.24	44.48	Average	54	Pass
NVNT	a Ant1	5700	5725.8	-38.46	2.59	-	59.36	Peak	68.2	Pass
NVNT	a Ant1	5700	5735	-45.65	2.59	-	52.17	Peak	68.2	Pass
NVNT	a Ant1	5700	5735	-57.46	2.59	0.24	40.6	Average	54	Pass
NVNT	n20 MIMO	5500	5460	-47.95	5.60	-	52.88	Peak	68.2	Pass
NVNT	n20 MIMO	5500	5460	-57.29	5.60	0.28	43.82	Average	54	Pass
NVNT	n20 MIMO	5500	5469.2	-41.39	5.60	-	59.44	Peak	68.2	Pass
NVNT	n20 MIMO	5500	5469.8	-54.27	5.60	0.28	46.84	Average	54	Pass
NVNT	n20 MIMO	5500	5470	-42.96	5.60	-	57.87	Peak	68.2	Pass
NVNT	n20 MIMO	5500	5470	-54.73	5.60	0.28	46.38	Average	54	Pass
NVNT	n20 MIMO	5700	5725	-39.47	5.60	-	61.36	Peak	68.2	Pass
NVNT	n20 MIMO	5700	5725	-51.43	5.60	0.28	49.68	Average	54	Pass
NVNT	n20 MIMO	5700	5726.6	-39.34	5.60	-	61.49	Peak	68.2	Pass
NVNT	n20 MIMO	5700	5735	-47.51	5.60	-	53.32	Peak	68.2	Pass
NVNT	n20 MIMO	5700	5735	-57.25	5.60	0.28	43.86	Average	54	Pass
NVNT	n40 MIMO	5510	5460	-49.05	5.60	-	51.78	Peak	68.2	Pass
NVNT	n40 MIMO	5510	5460	-57.89	5.60	0.24	43.18	Average	54	Pass
NVNT	n40 MIMO	5510	5468.6	-37.5	5.60	-	63.33	Peak	68.2	Pass
NVNT	n40 MIMO	5510	5469.8	-55.01	5.60	0.24	46.06	Average	54	Pass
NVNT	n40 MIMO	5510	5470	-40.99	5.60	-	59.84	Peak	68.2	Pass
NVNT	n40 MIMO	5510	5470	-55.32	5.60	0.24	45.75	Average	54	Pass
NVNT	n40 MIMO	5670	5725	-48.09	5.60	-	52.74	Peak	68.2	Pass
NVNT	n40 MIMO	5670	5725	-54.66	5.60	0.24	46.41	Average	54	Pass
NVNT	n40 MIMO	5670	5726.2	-44.25	5.60	-	56.58	Peak	68.2	Pass
NVNT	n40 MIMO	5670	5727.2	-54.62	5.60	0.24	46.45	Average	54	Pass
NVNT	n40 MIMO	5670	5735	-47.87	5.60	-	52.96	Peak	68.2	Pass
NVNT	n40 MIMO	5670	5735	-56.16	5.60	0.24	44.91	Average	54	Pass
NVNT	ac20 MIMO	5500	5460	-46.99	5.60	-	53.84	Peak	68.2	Pass
NVNT	ac20 MIMO	5500	5460	-57.46	5.60	0.28	43.65	Average	54	Pass





NVNT	ac20 MIMO	5500	5468.6	-34.04	5.60	-	66.79	Peak	68.2	Pass
NVNT	ac20 MIMO	5500	5469.4	-53.35	5.60	0.28	47.76	Average	54	Pass
NVNT	ac20 MIMO	5500	5470	-39.88	5.60	-	60.95	Peak	68.2	Pass
NVNT	ac20 MIMO	5500	5470	-53.68	5.60	0.28	47.15	Average	54	Pass
NVNT	ac20 MIMO	5700	5725	-38.83	5.60	-	62	Peak	68.2	Pass
NVNT	ac20 MIMO	5700	5725	-53.34	5.60	0.28	47.77	Average	54	Pass
NVNT	ac20 MIMO	5700	5725.2	-34.56	5.60	-	66.27	Peak	68.2	Pass
NVNT	ac20 MIMO	5700	5725.8	-52.46	5.60	0.28	48.65	Average	54	Pass
NVNT	ac20 MIMO	5700	5735	-48.02	5.60	-	52.81	Peak	68.2	Pass
NVNT	ac20 MIMO	5700	5735	-57.04	5.60	0.28	44.07	Average	54	Pass
NVNT	ac40 MIMO	5510	5460	-48.64	5.60	-	52.19	Peak	68.2	Pass
NVNT	ac40 MIMO	5510	5460	-57.58	5.60	0.24	43.49	Average	54	Pass
NVNT	ac40 MIMO	5510	5469.4	-39.34	5.60	-	61.49	Peak	68.2	Pass
NVNT	ac40 MIMO	5510	5469.6	-54.37	5.60	0.24	46.7	Average	54	Pass
NVNT	ac40 MIMO	5510	5470	-44.78	5.60	-	56.05	Peak	68.2	Pass
NVNT	ac40 MIMO	5510	5470	-54.5	5.60	0.24	46.57	Average	54	Pass
NVNT	ac40 MIMO	5670	5725	-46.42	5.60	-	54.41	Peak	68.2	Pass
NVNT	ac40 MIMO	5670	5725	-55.32	5.60	0.24	45.75	Average	54	Pass
NVNT	ac40 MIMO	5670	5732	-45.6	5.60	-	55.23	Peak	68.2	Pass
NVNT	ac40 MIMO	5670	5726.4	-55.31	5.60	0.24	45.76	Average	54	Pass
NVNT	ac40 MIMO	5670	5735	-48.48	5.60	-	52.35	Peak	68.2	Pass
NVNT	ac40 MIMO	5670	5735	-56.61	5.60	0.24	44.46	Average	54	Pass
NVNT	ac80 MIMO	5530	5460	-46.32	5.60	-	54.51	Peak	68.2	Pass
NVNT	ac80 MIMO	5530	5460	-53.87	5.60	0.25	47.21	Average	54	Pass
NVNT	ac80 MIMO	5530	5469.8	-39.35	5.60	-	61.48	Peak	68.2	Pass
NVNT	ac80 MIMO	5530	5468.6	-52.33	5.60	0.25	48.75	Average	54	Pass
NVNT	ac80 MIMO	5530	5470	-41.99	5.60	-	58.84	Peak	68.2	Pass
NVNT	ac80 MIMO	5530	5470	-52.88	5.60	0.25	48.2	Average	54	Pass
NVNT	ac80 MIMO	5610	5725	-44.79	5.60	-	56.04	Peak	68.2	Pass
NVNT	ac80 MIMO	5610	5725	-54.74	5.60	0.25	46.34	Average	54	Pass
NVNT	ac80 MIMO	5610	5732.95	-43.49	5.60	-	57.34	Peak	68.2	Pass
NVNT	ac80 MIMO	5610	5728.44	-54.15	5.60	0.25	46.93	Average	54	Pass
NVNT	ac80 MIMO	5610	5735	-48.26	5.60	-	52.57	Peak	68.2	Pass
NVNT	ac80 MIMO	5610	5735	-55.65	5.60	0.25	45.43	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.

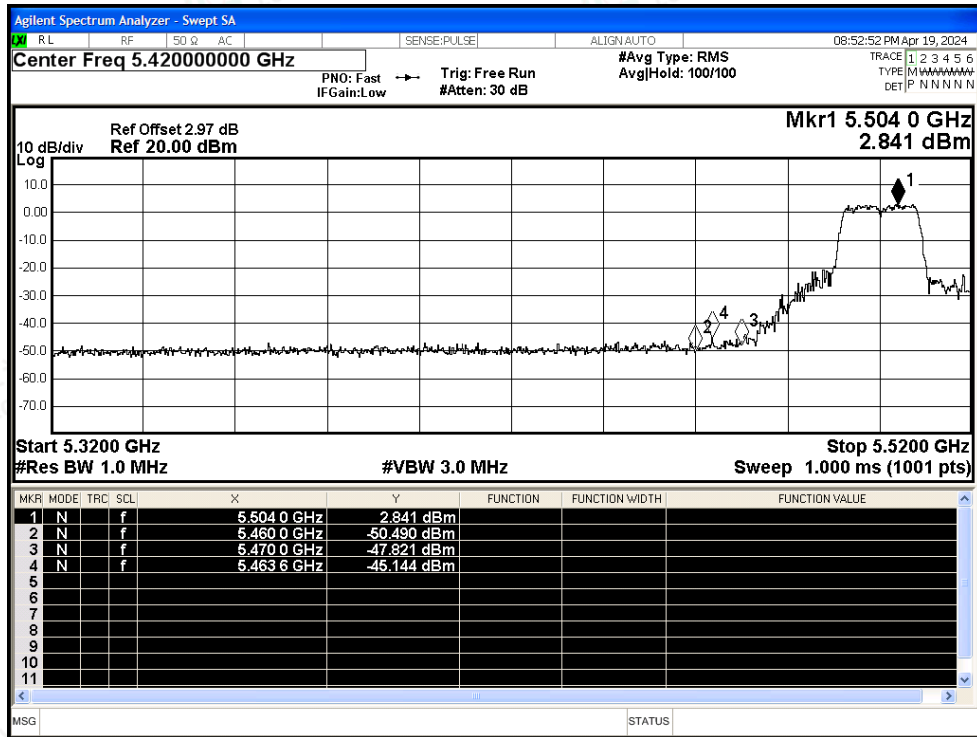


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

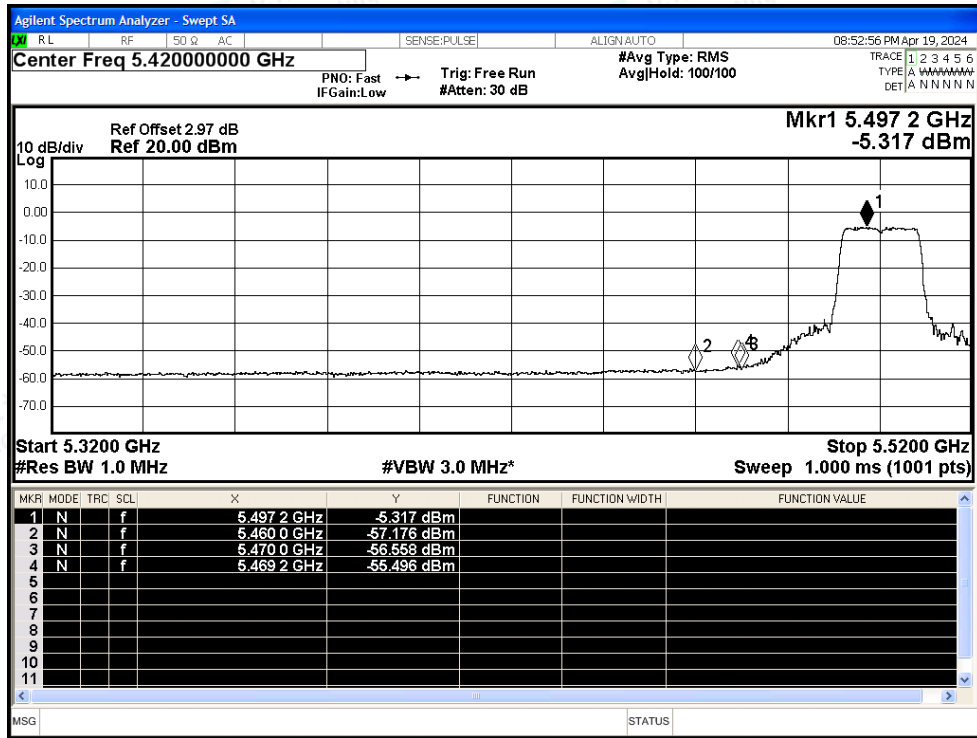


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak

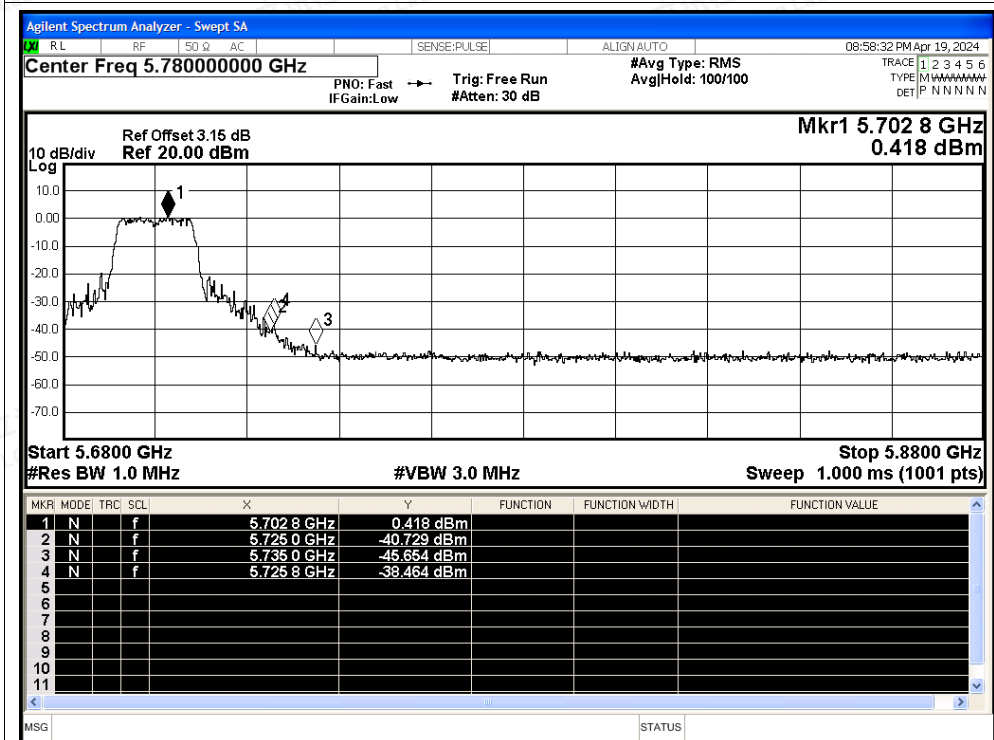


Restrict Band NVNT a 5500MHz Ant1 Average

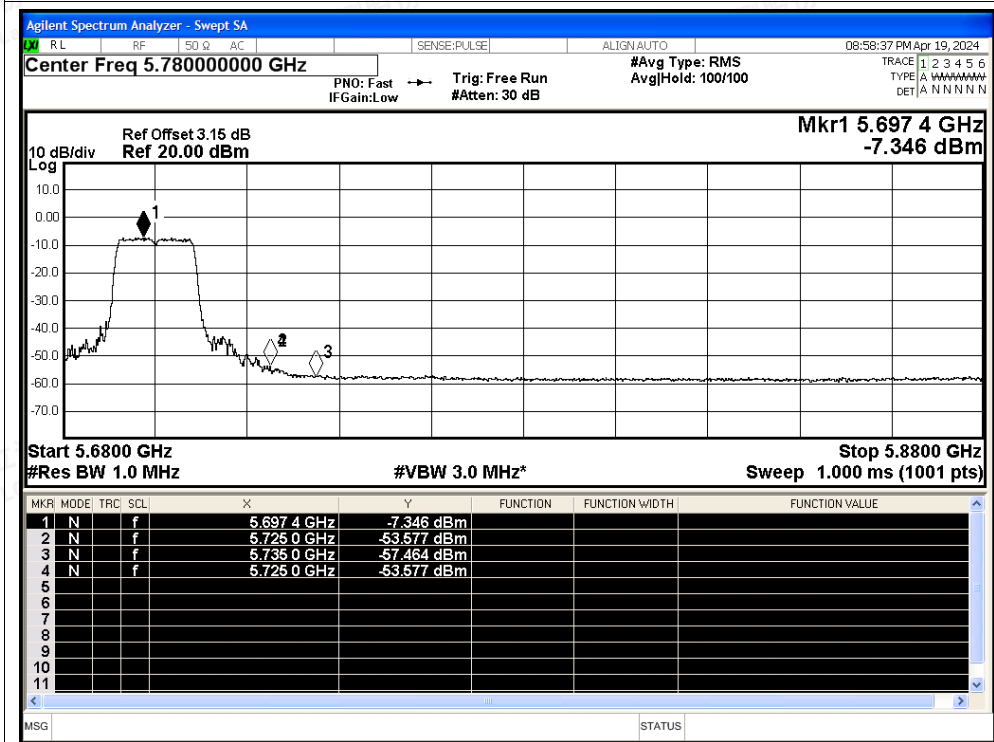




Restrict Band NVNT a 5700MHz Ant1 Peak

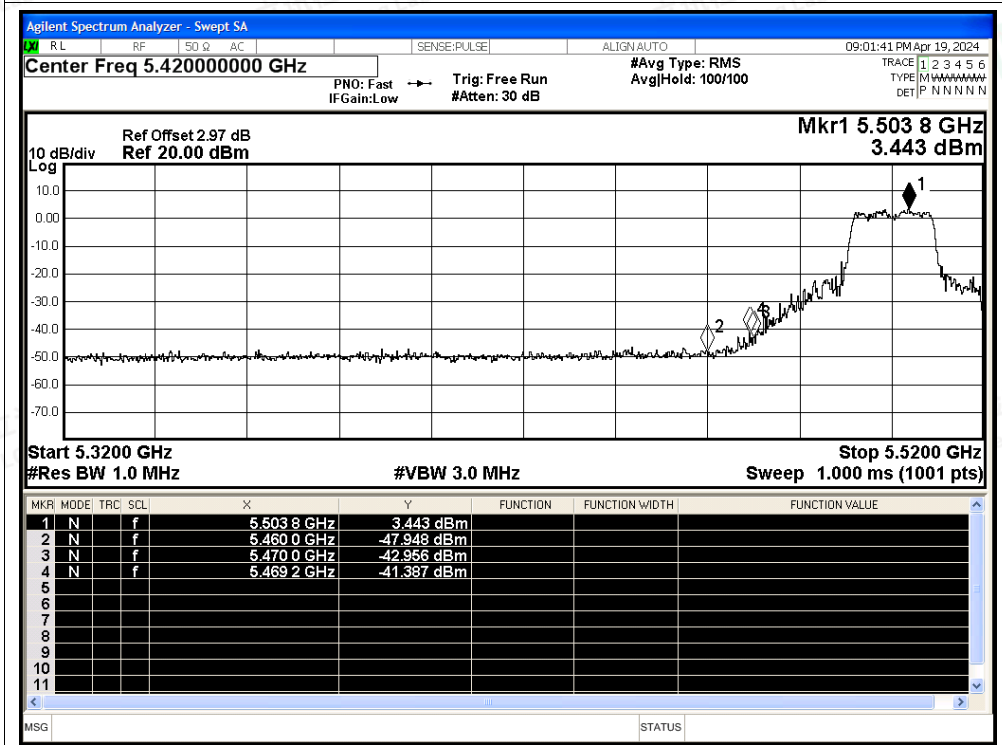


Restrict Band NVNT a 5700MHz Ant1 Average

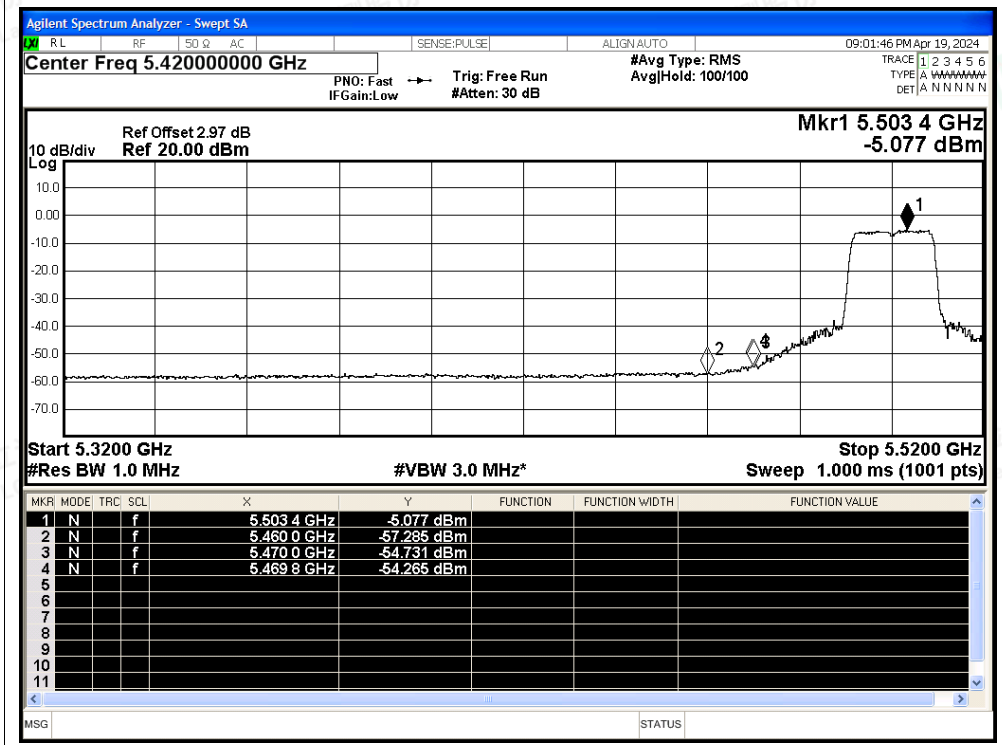




Restrict Band NVNT n20 5500MHz Peak



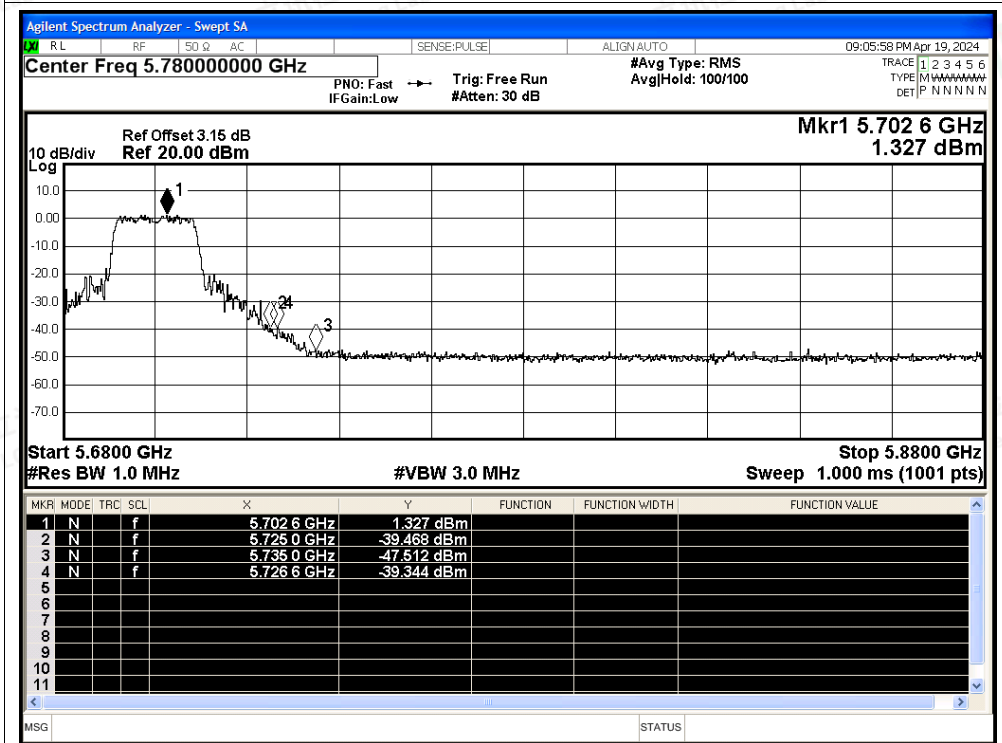
Restrict Band NVNT n20 5500MHz Average



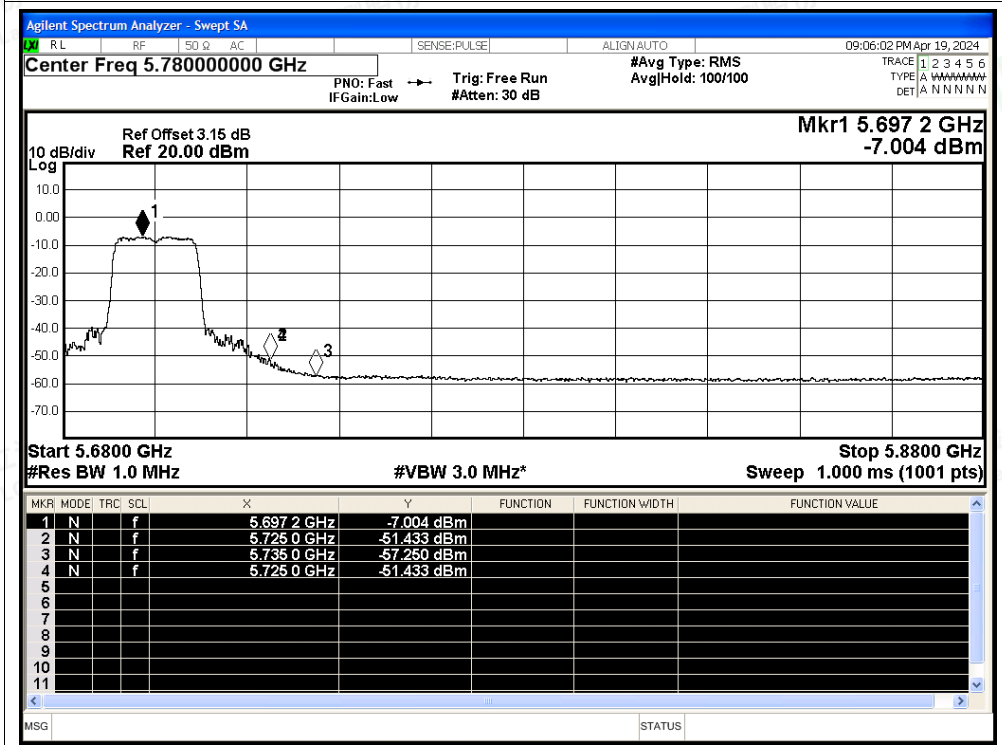




Restrict Band NVNT n20 5700MHz Peak

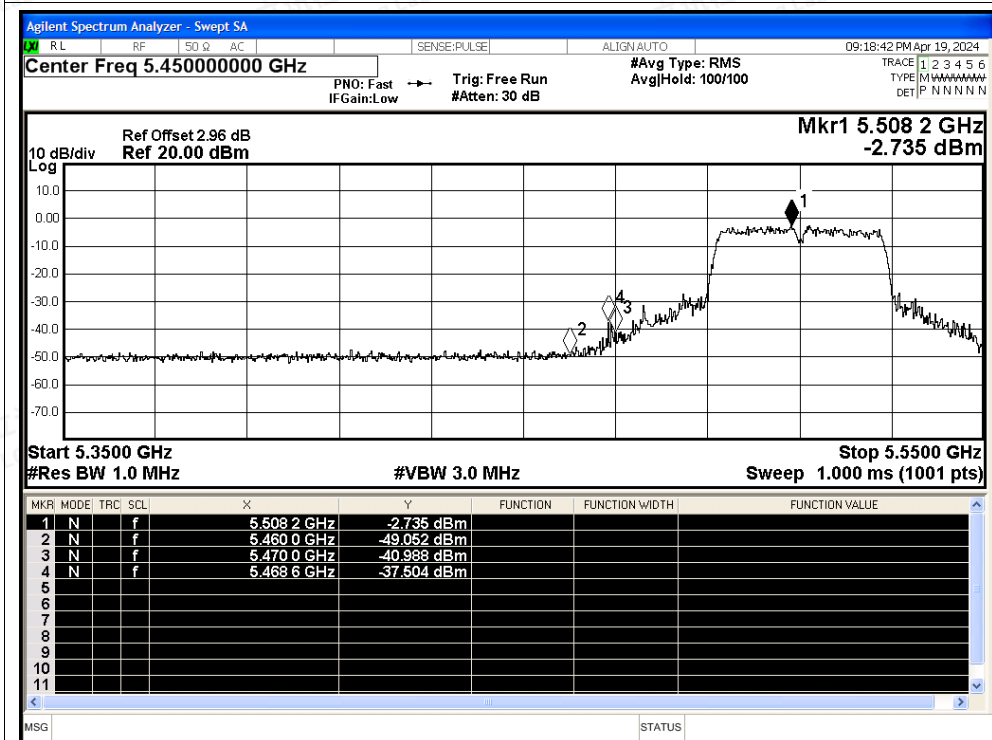


Restrict Band NVNT n20 5700MHz Average

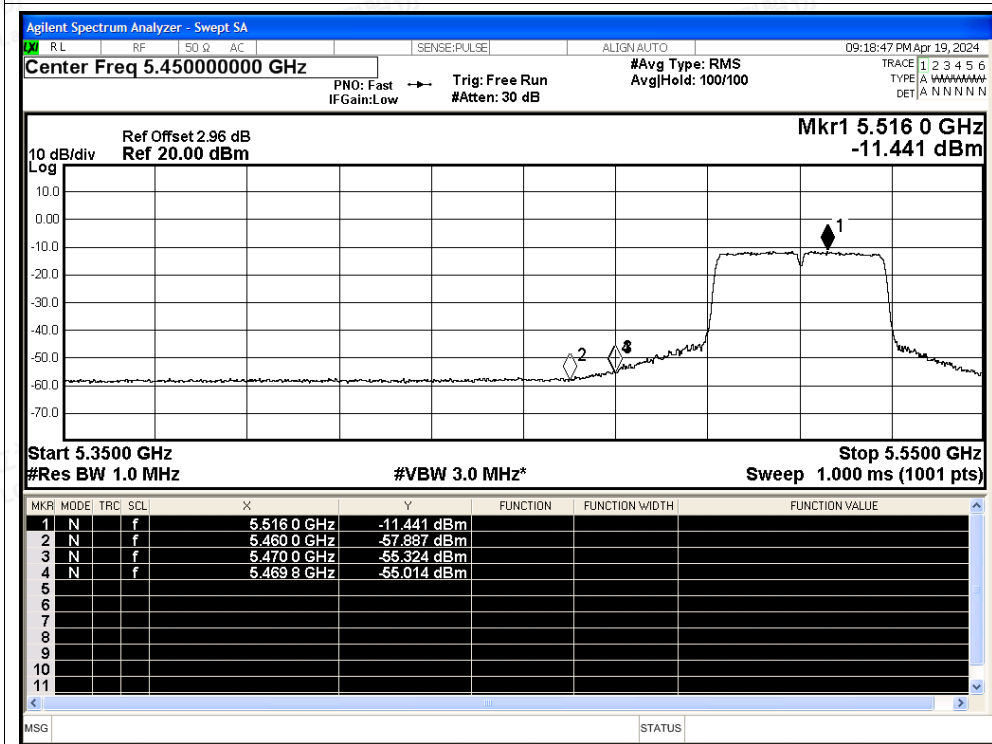




Restrict Band NVNT n40 5510MHz Peak

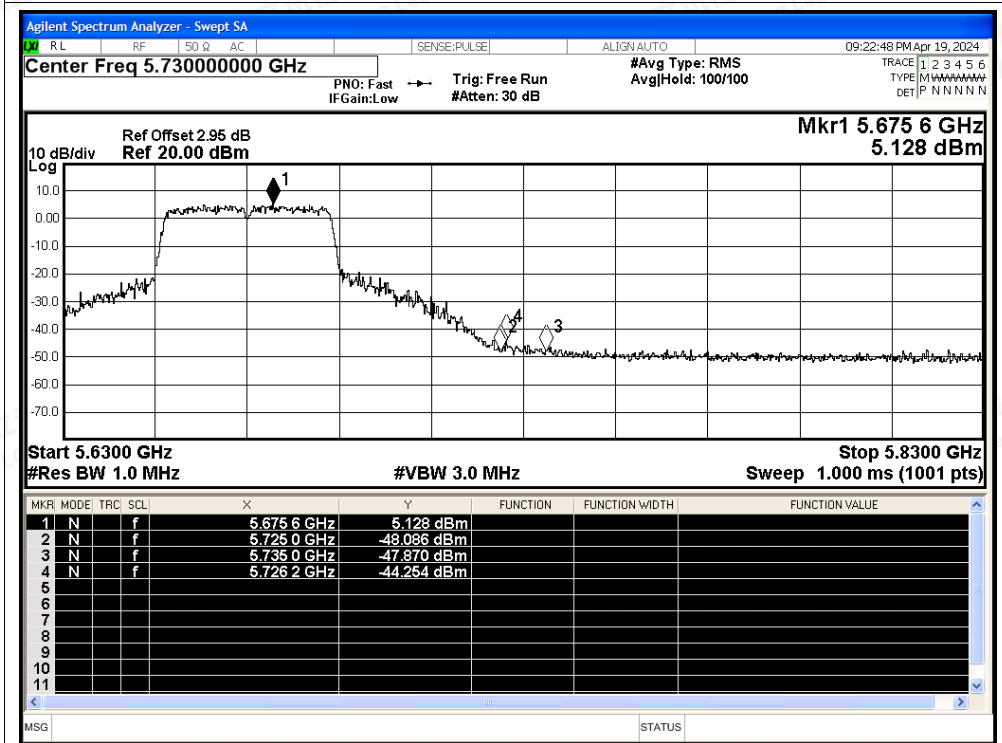


Restrict Band NVNT n40 5510MHz Average

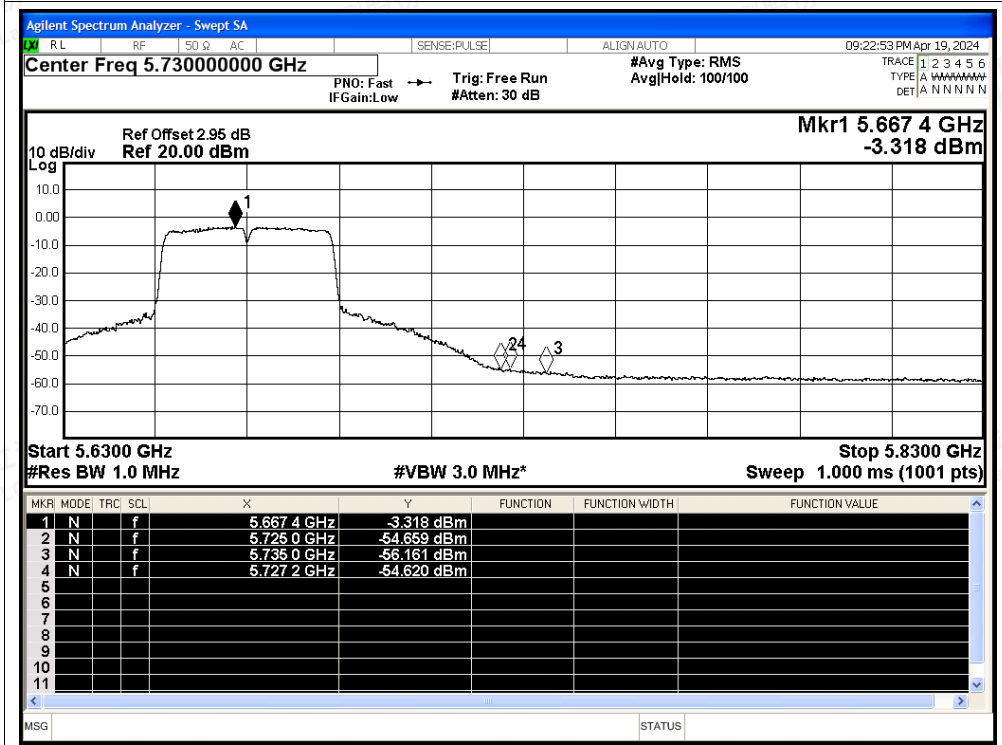




Restrict Band NVNT n40 5670MHz Peak

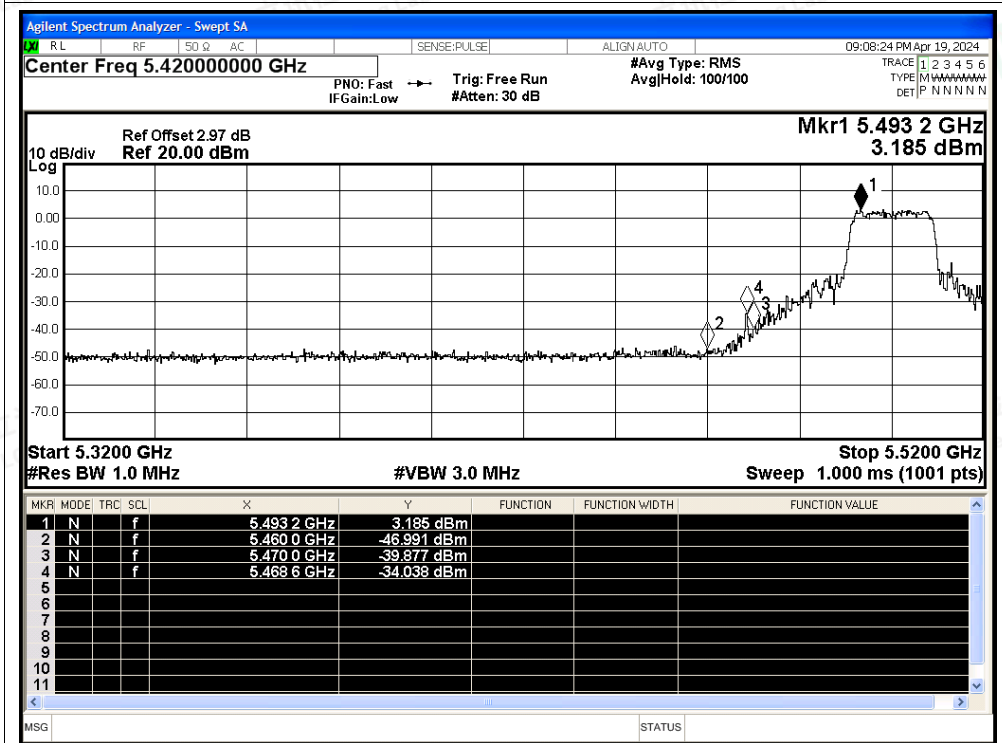


Restrict Band NVNT n40 5670MHz Average

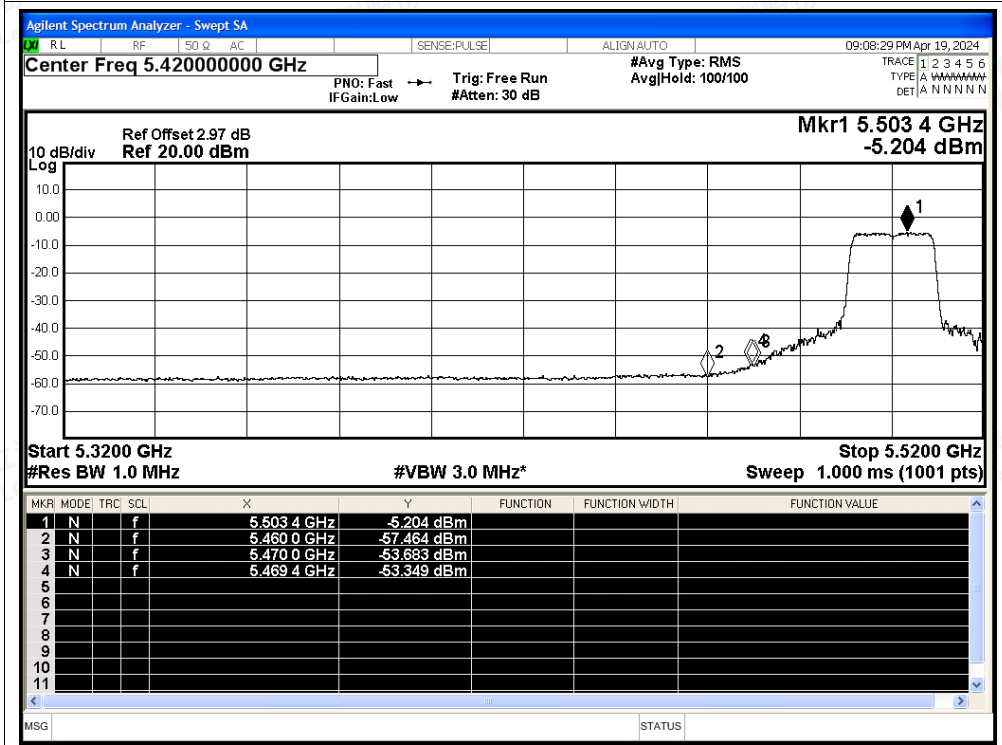




Restrict Band NVNT ac20 5500MHz Peak

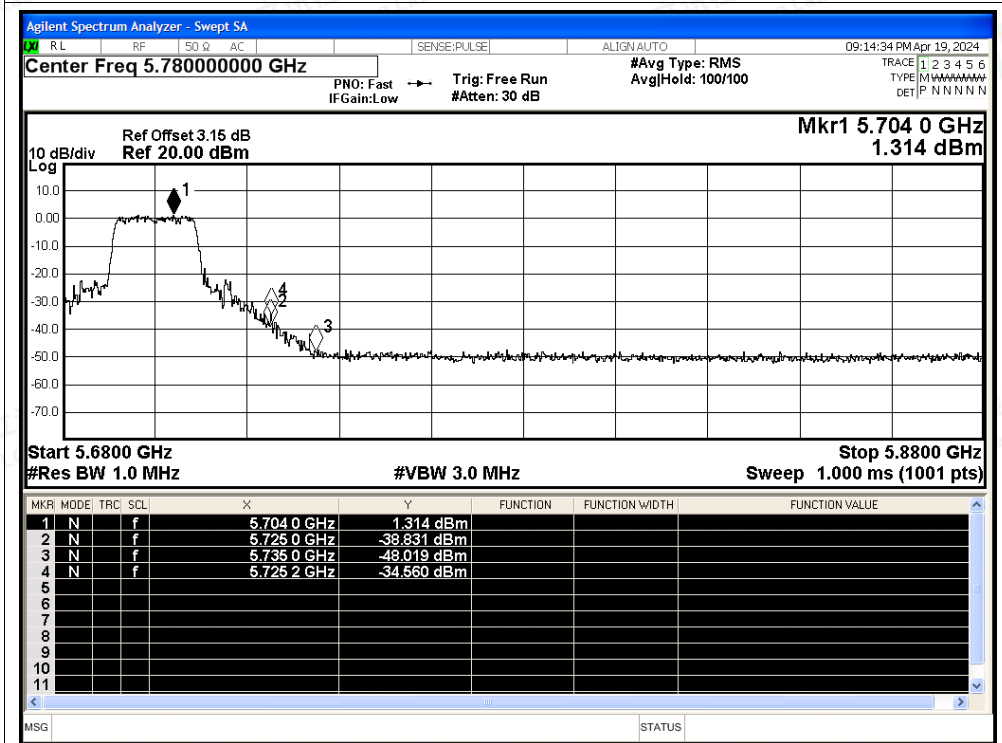


Restrict Band NVNT ac20 5500MHz Average

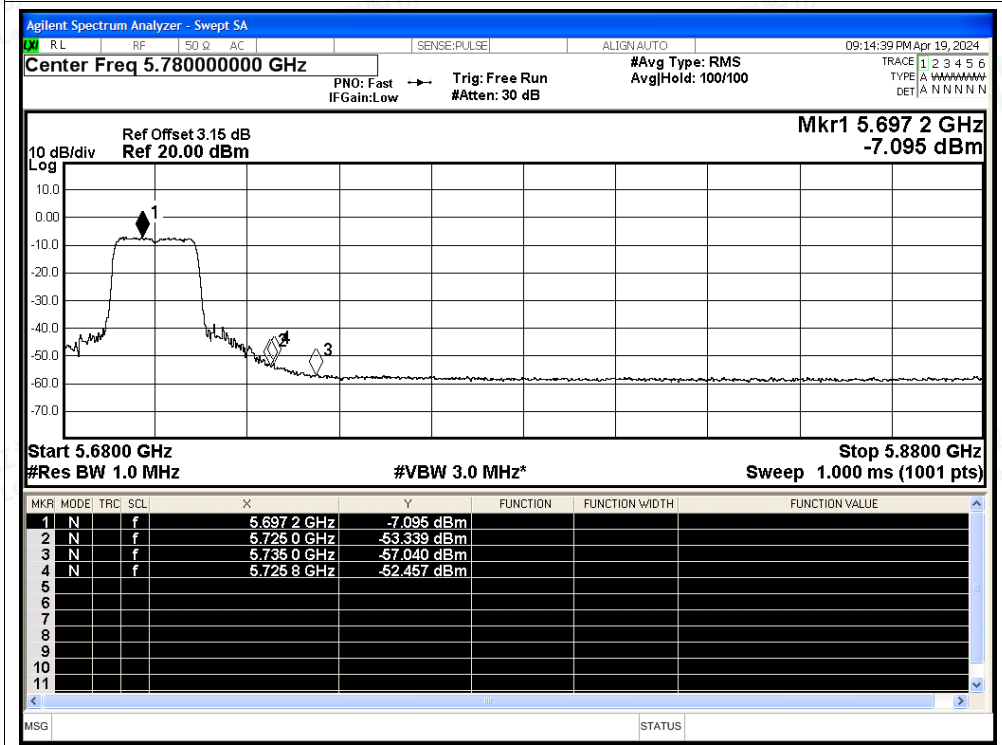


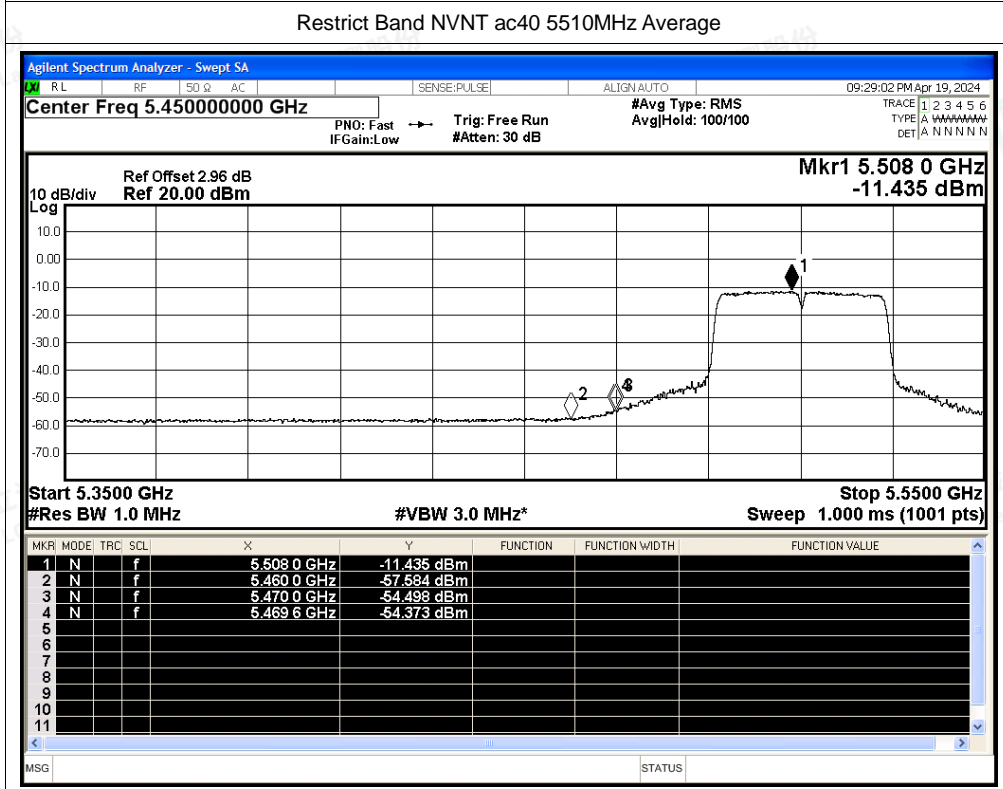
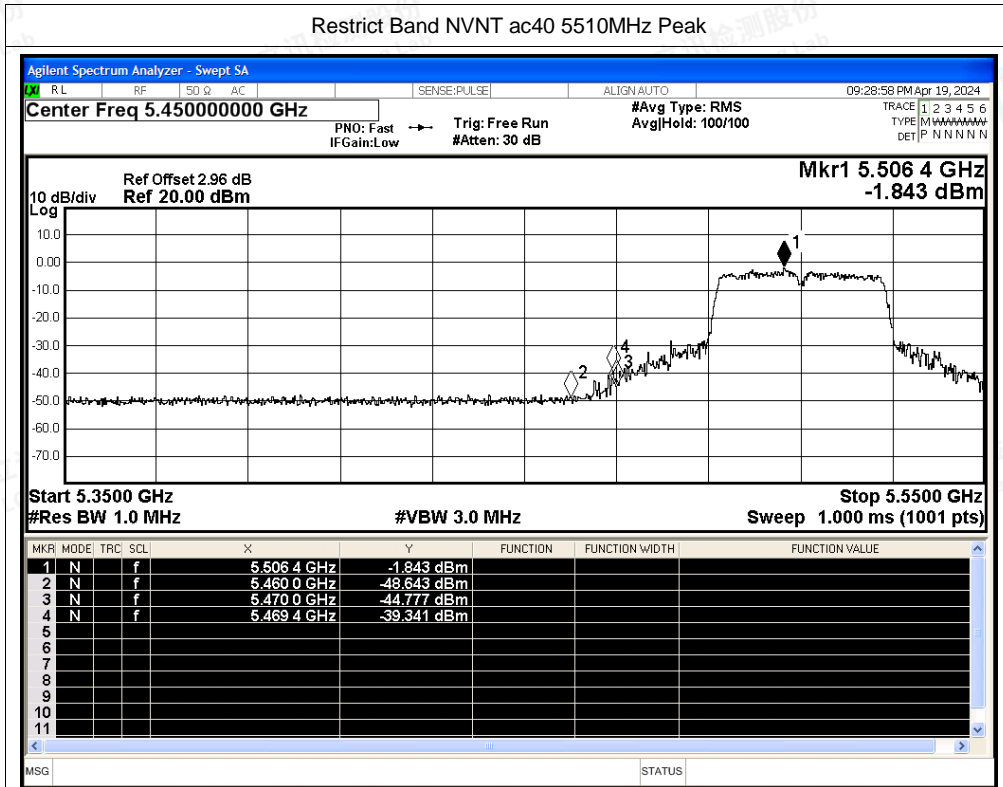


Restrict Band NVNT ac20 5700MHz Peak



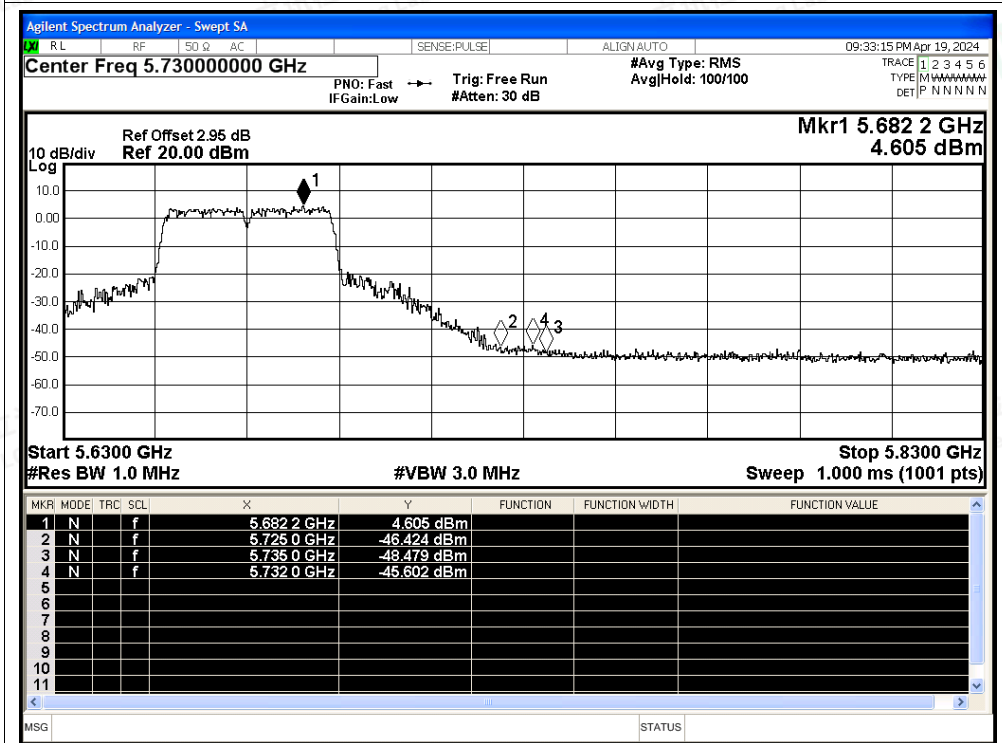
Restrict Band NVNT ac20 5700MHz Average



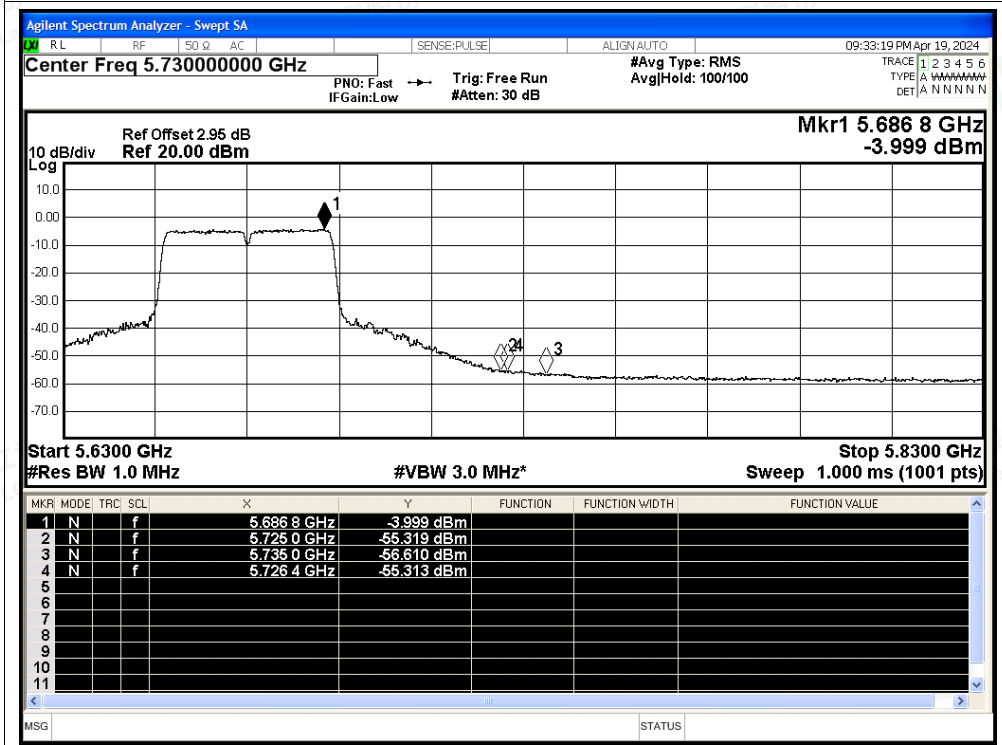


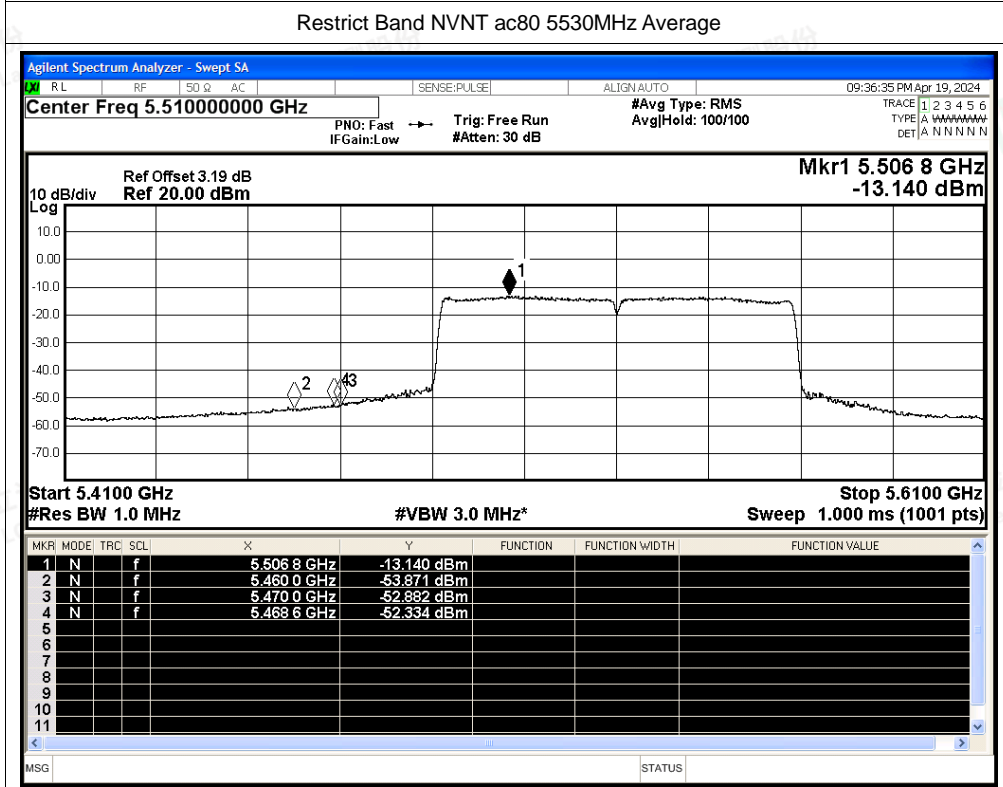
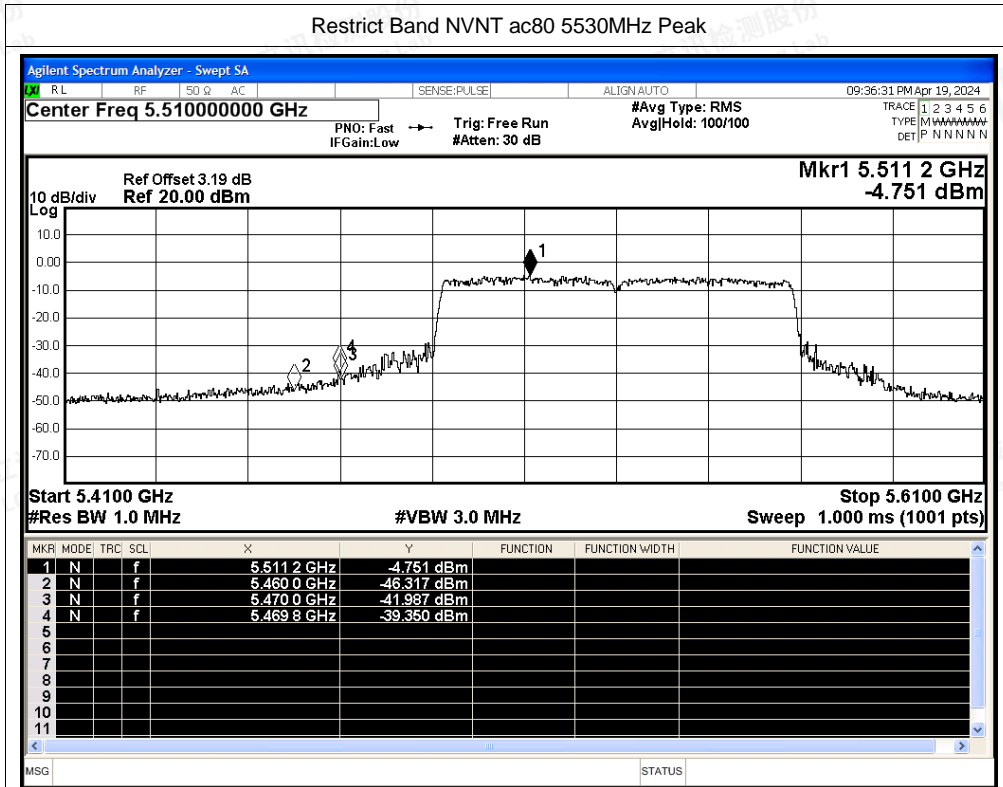


Restrict Band NVNT ac40 5670MHz Peak

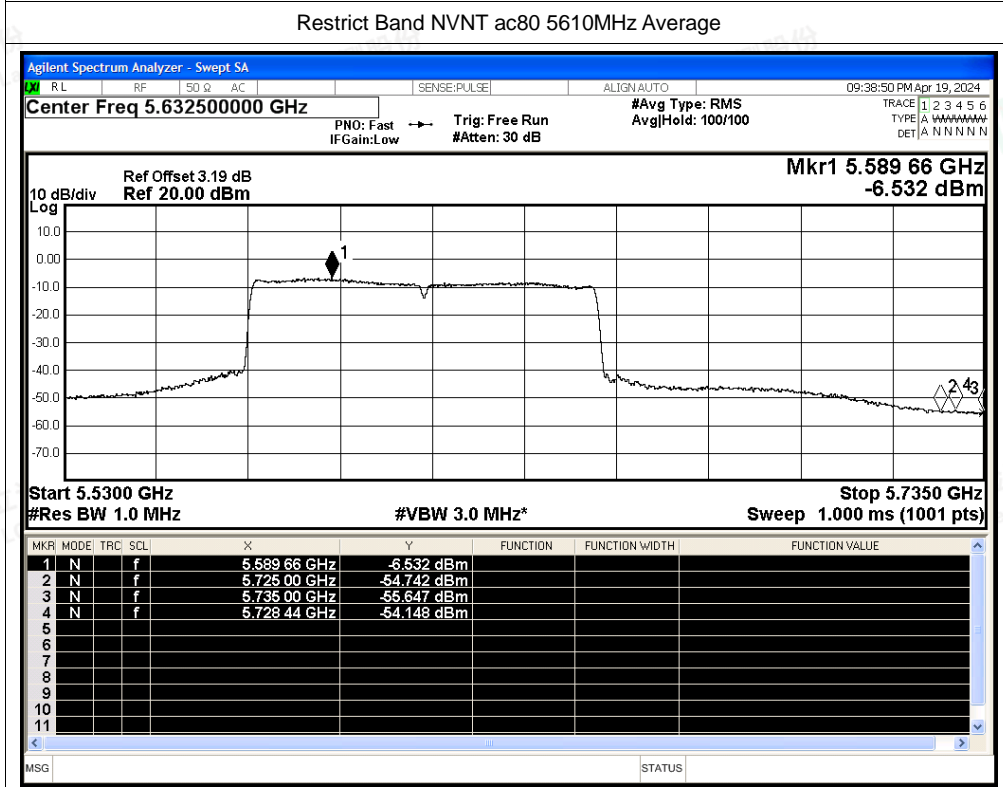
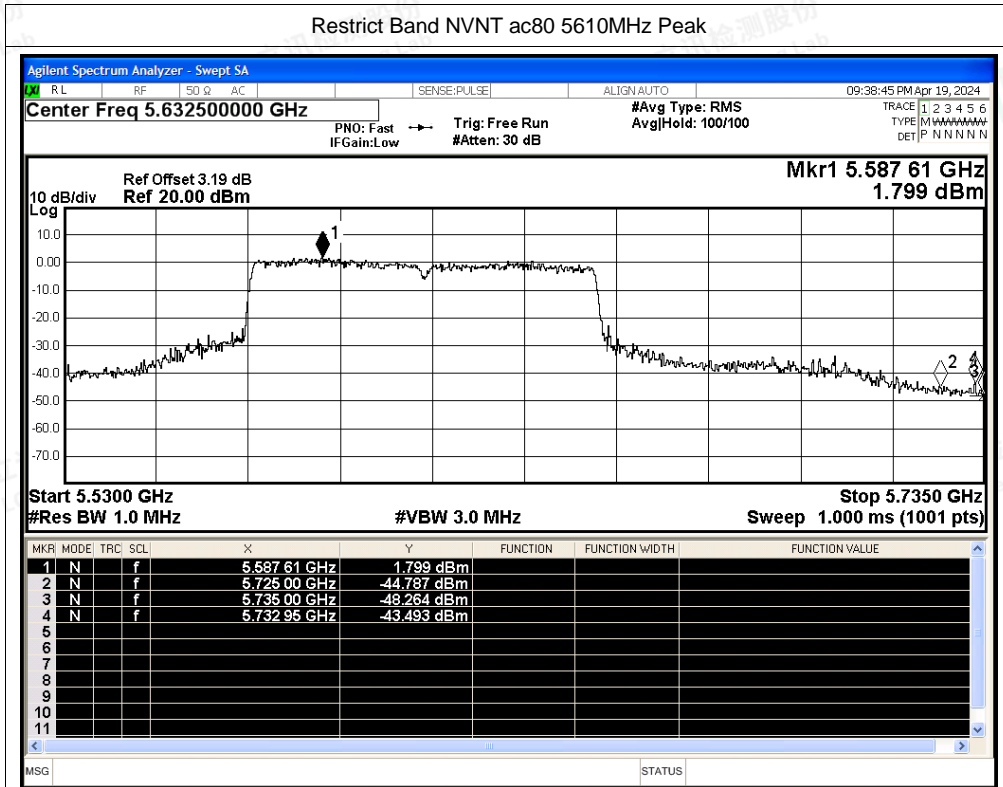


Restrict Band NVNT ac40 5670MHz Average











### F.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
NVNT	ac20	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NVNT	ac40	5510	Ant1	5509.96	-40000	-7.26	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

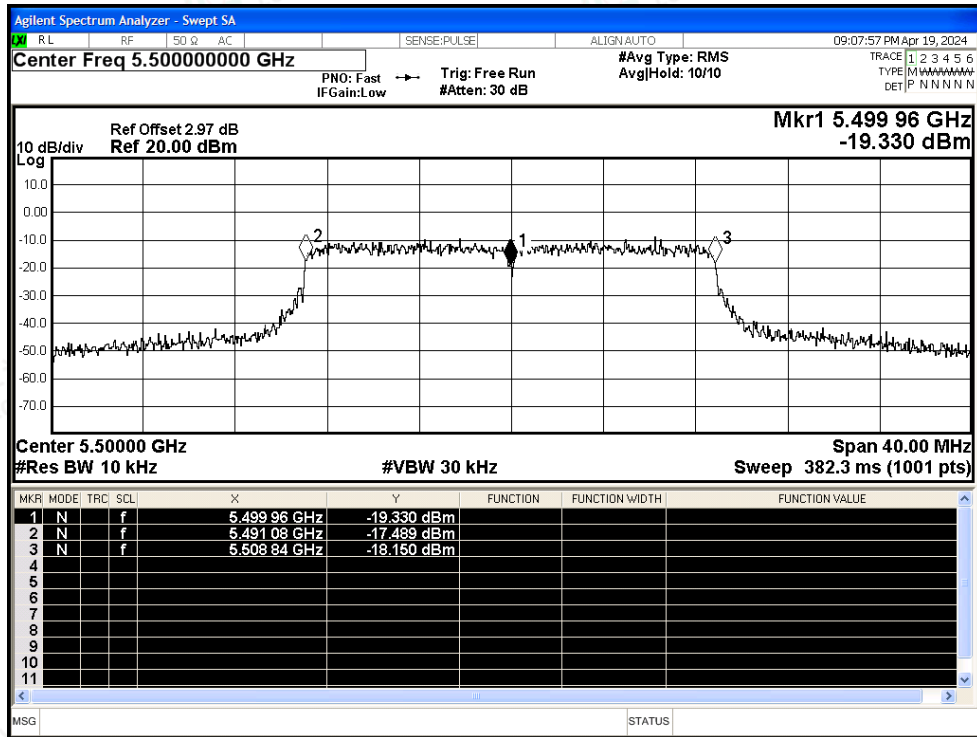


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Scan code to check authenticity

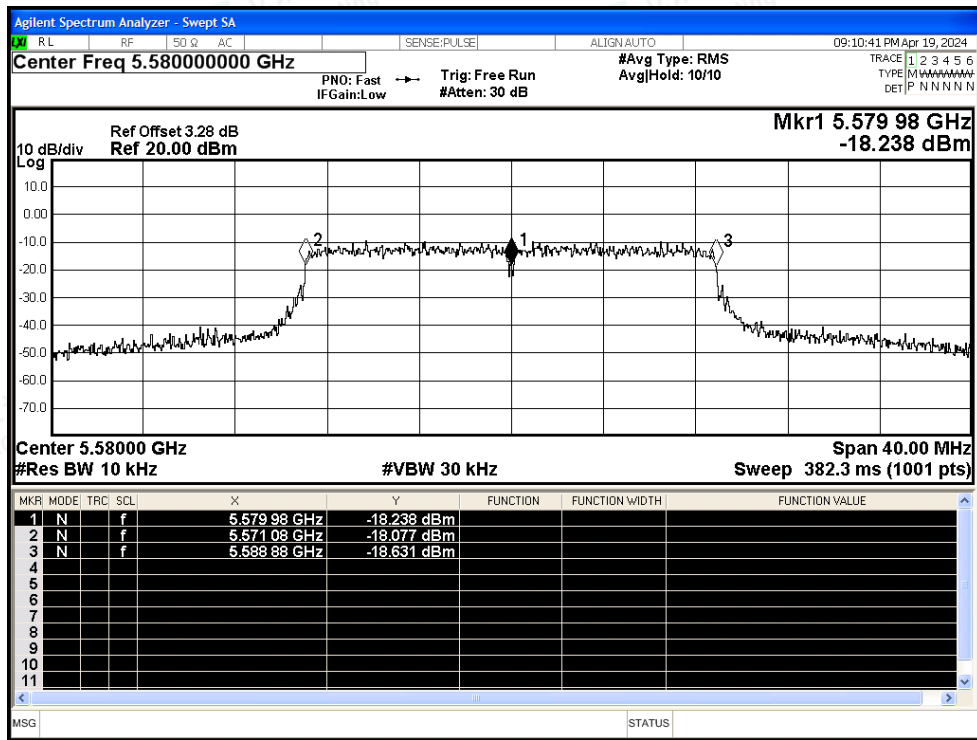


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant1

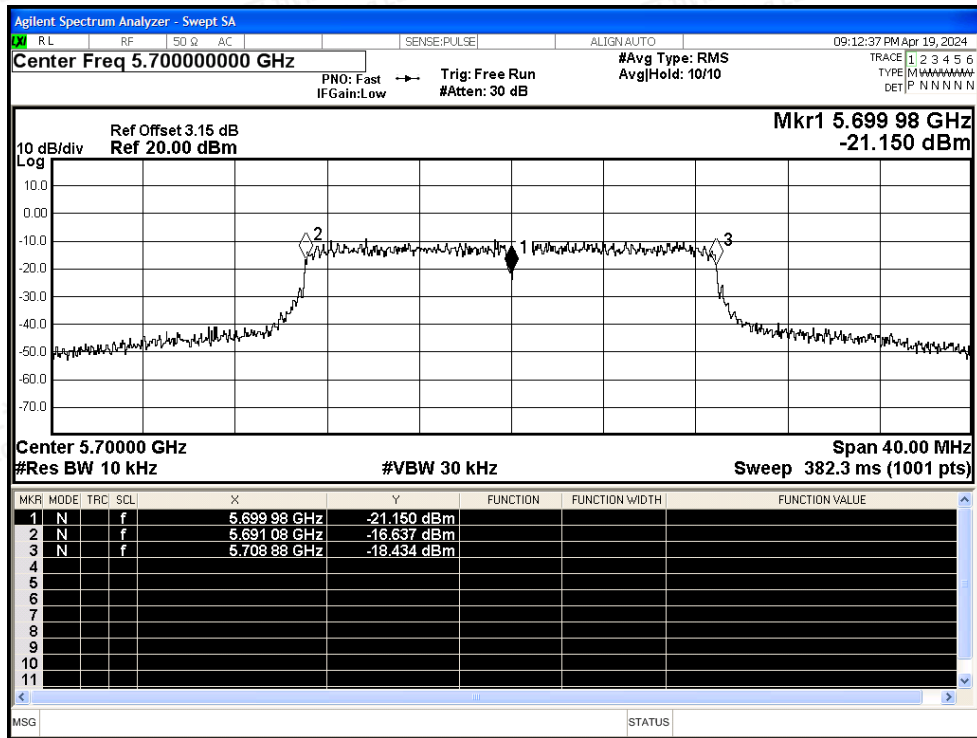


Freq. Stability NVNT ac20 5580MHz Ant1

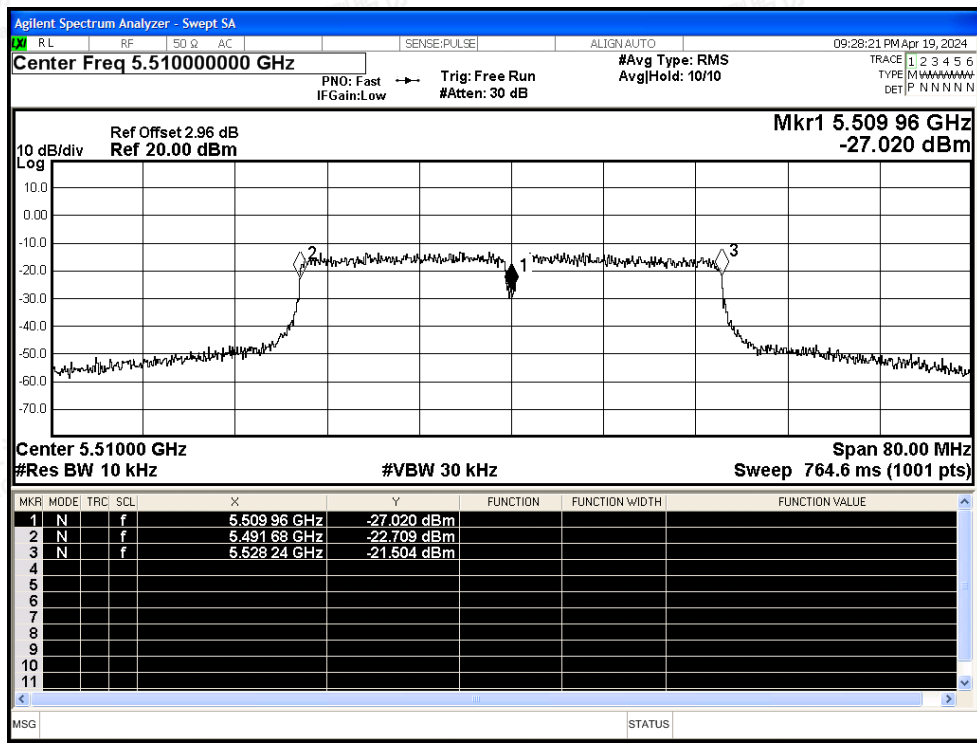




Freq. Stability NVNT ac20 5700MHz Ant1

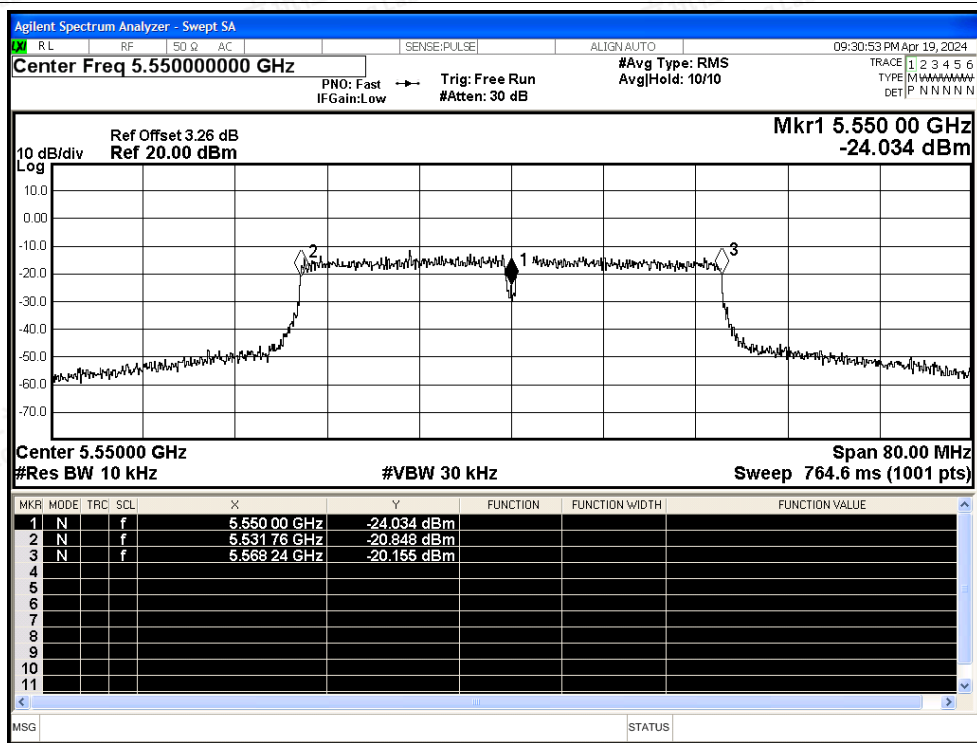


Freq. Stability NVNT ac40 5510MHz Ant1

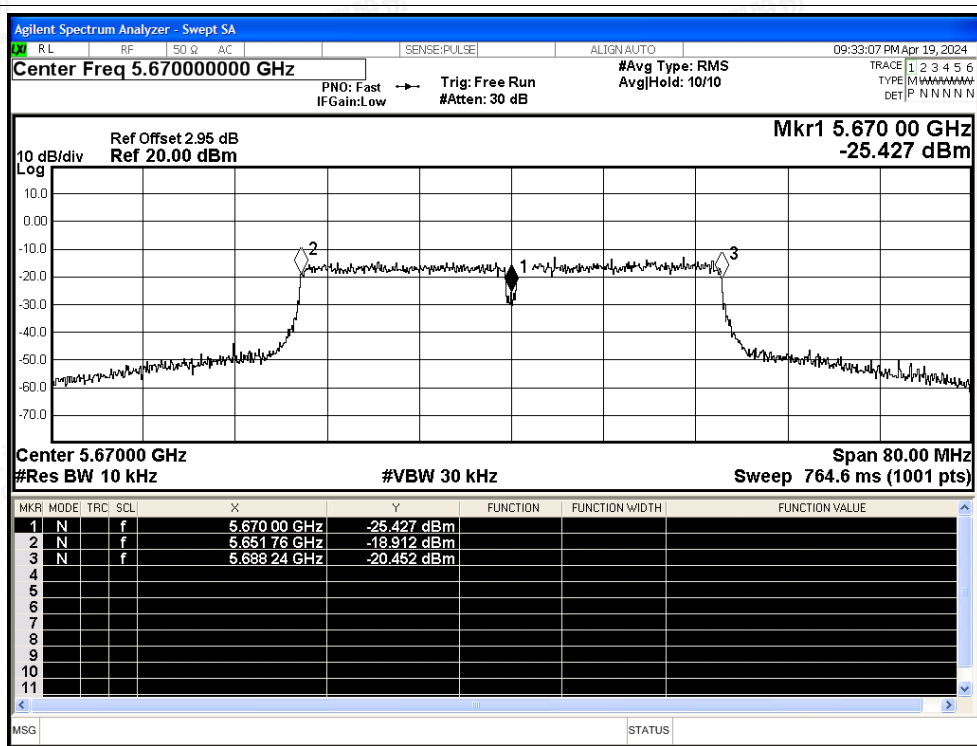




Freq. Stability NVNT ac40 5550MHz Ant1

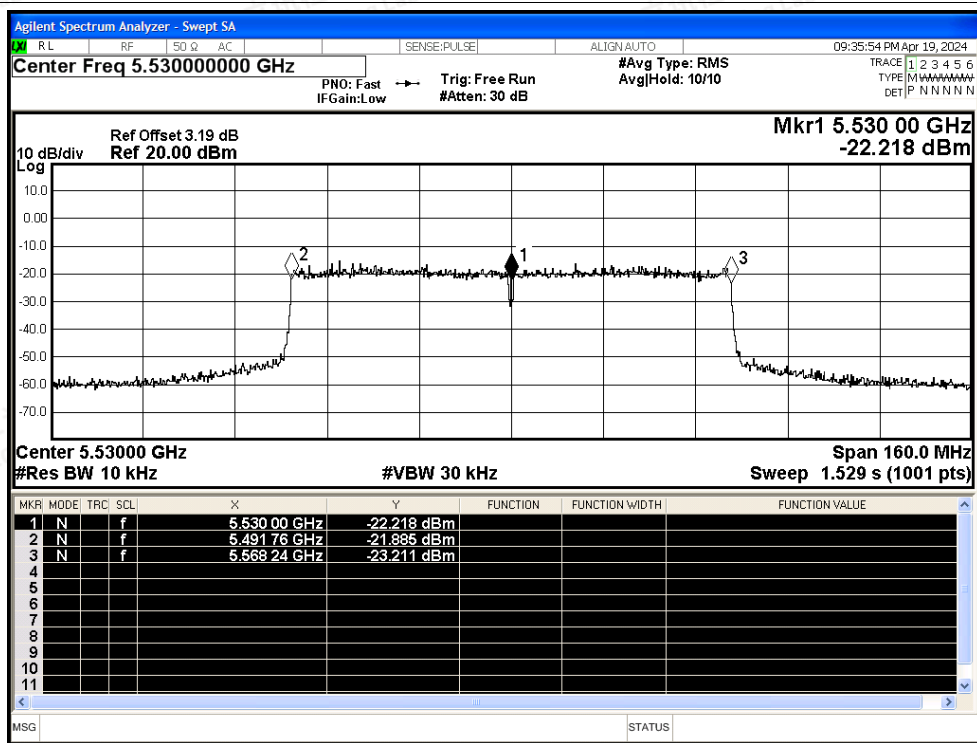


Freq. Stability NVNT ac40 5670MHz Ant1

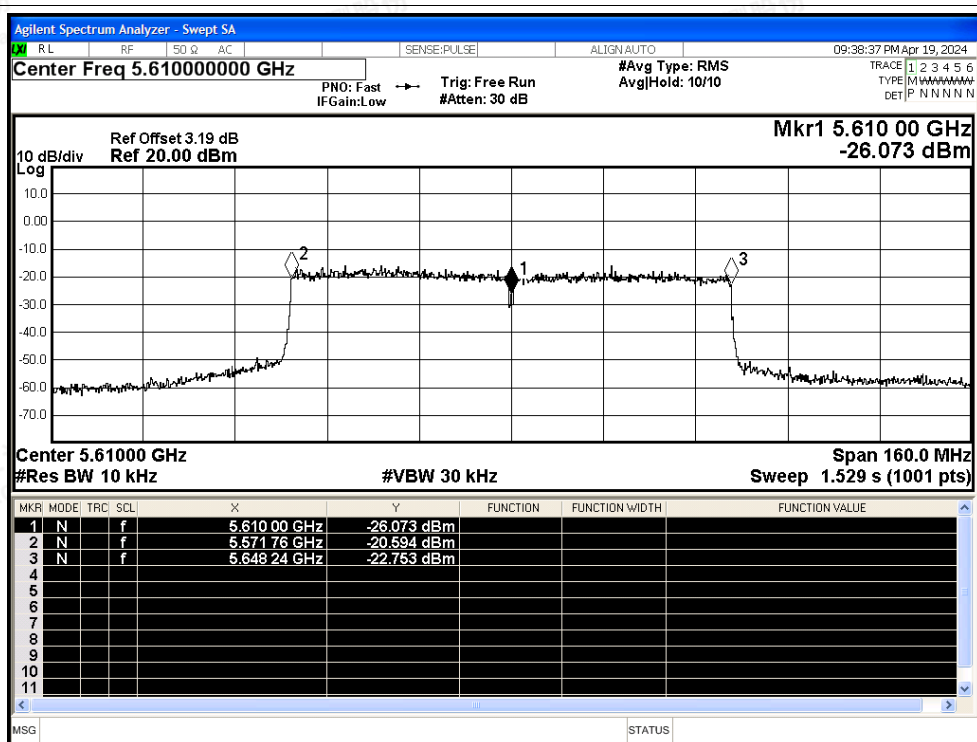




Freq. Stability NVNT ac80 5530MHz Ant1

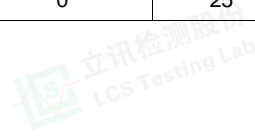
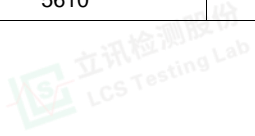
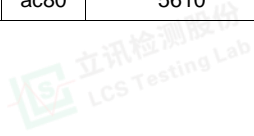


Freq. Stability NVNT ac80 5610MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NVNT	ac20	5580	Ant2	5580	0	0	25	Pass
NVNT	ac20	5700	Ant2	5699.96	-40000	-7.02	25	Pass
NVNT	ac40	5510	Ant2	5509.96	-40000	-7.26	25	Pass
NVNT	ac40	5550	Ant2	5550	0	0	25	Pass
NVNT	ac40	5670	Ant2	5670	0	0	25	Pass
NVNT	ac80	5530	Ant2	5530	0	0	25	Pass
NVNT	ac80	5610	Ant2	5610	0	0	25	Pass

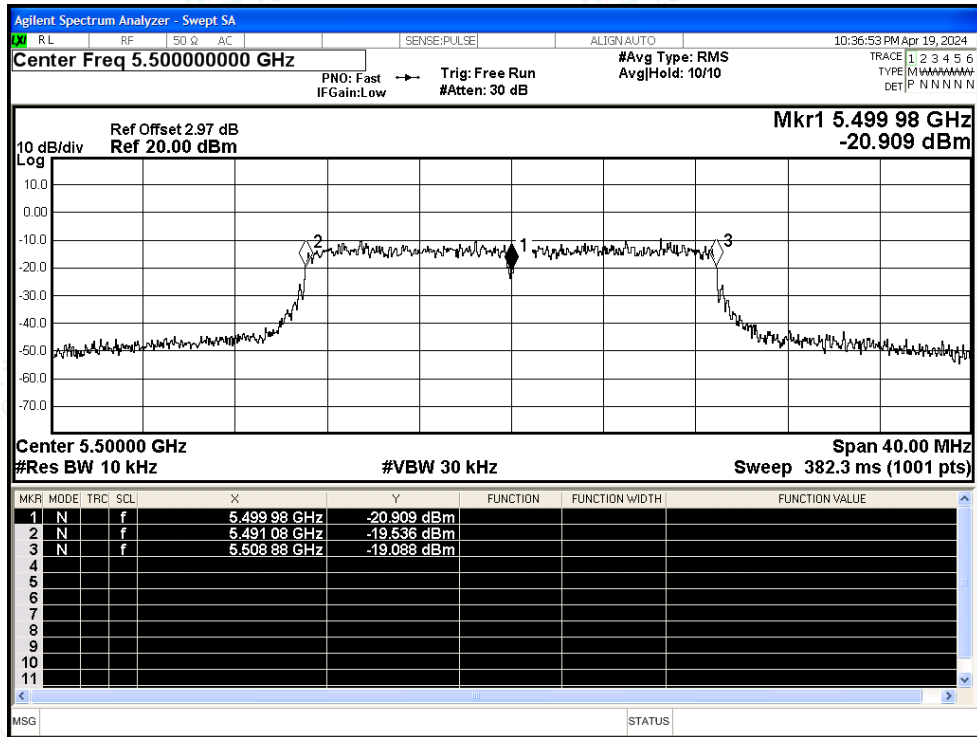


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Scan code to check authenticity

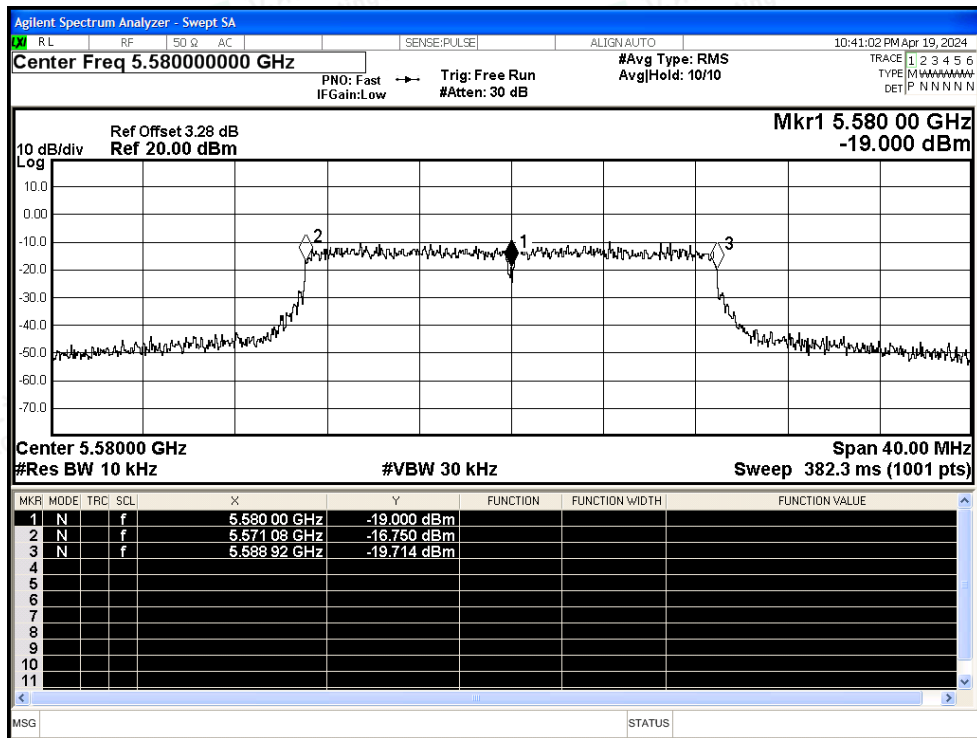


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant2



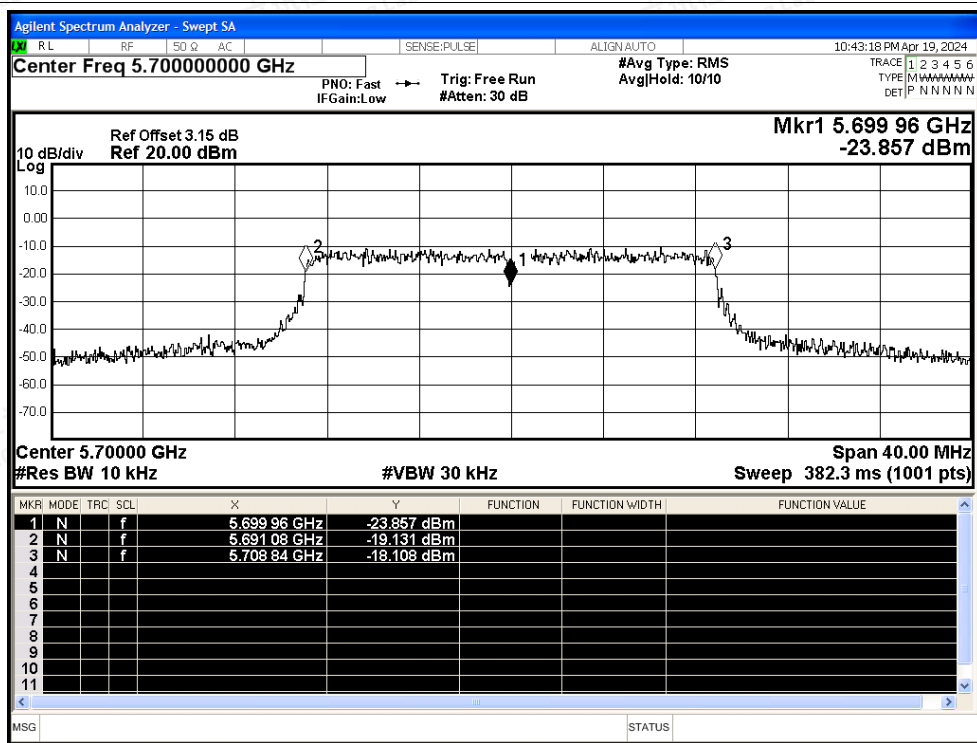
Freq. Stability NVNT ac20 5580MHz Ant2



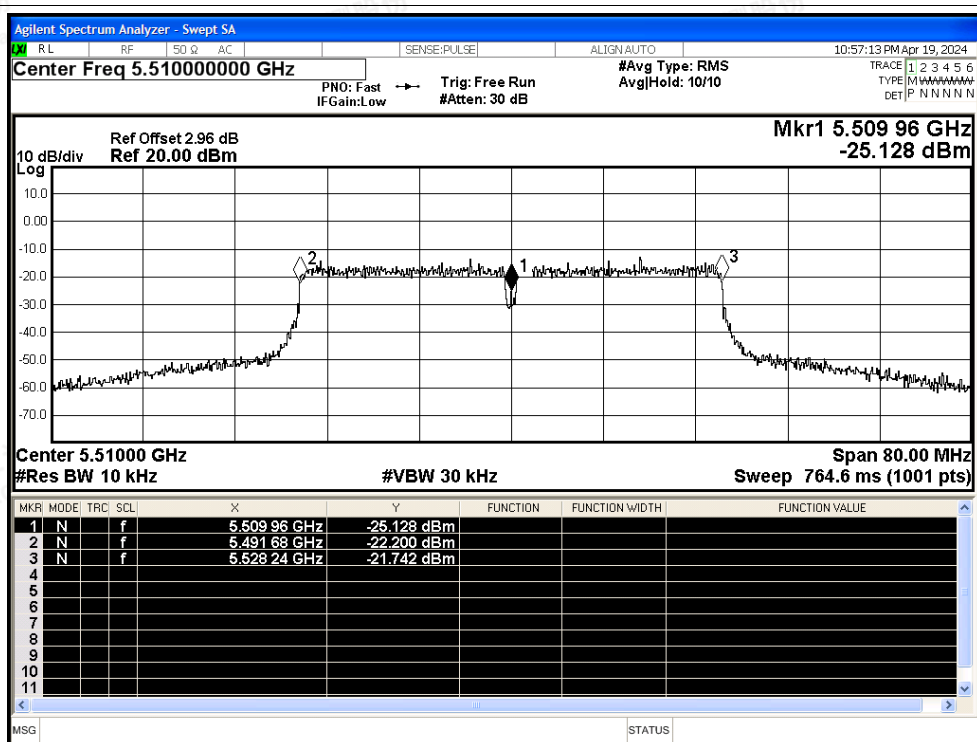




Freq. Stability NVNT ac20 5700MHz Ant2

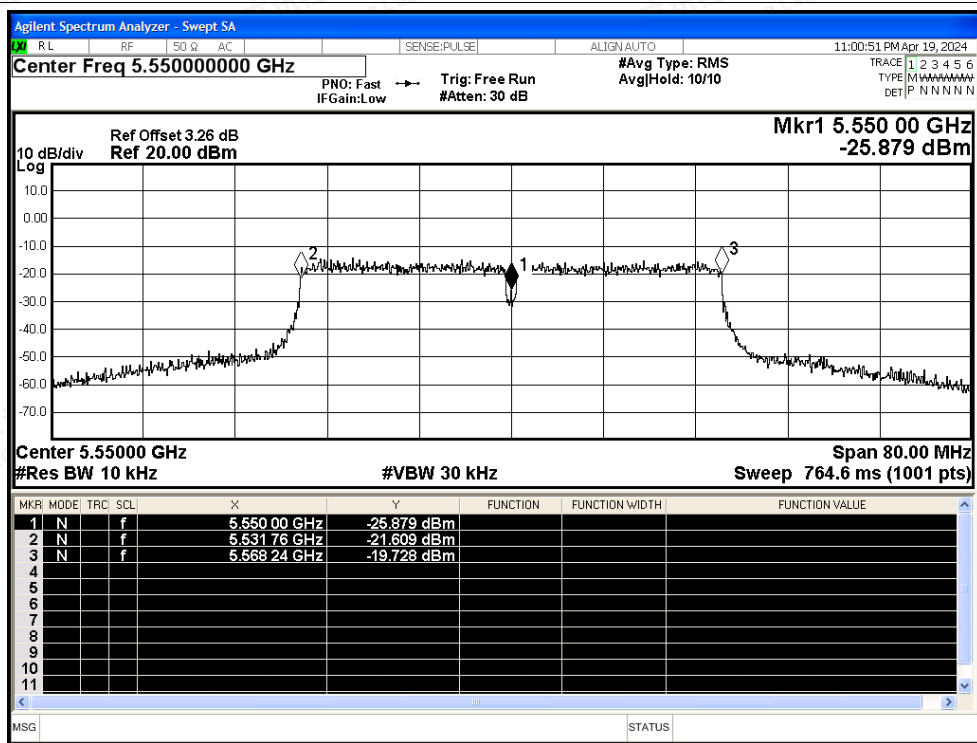


Freq. Stability NVNT ac40 5510MHz Ant2

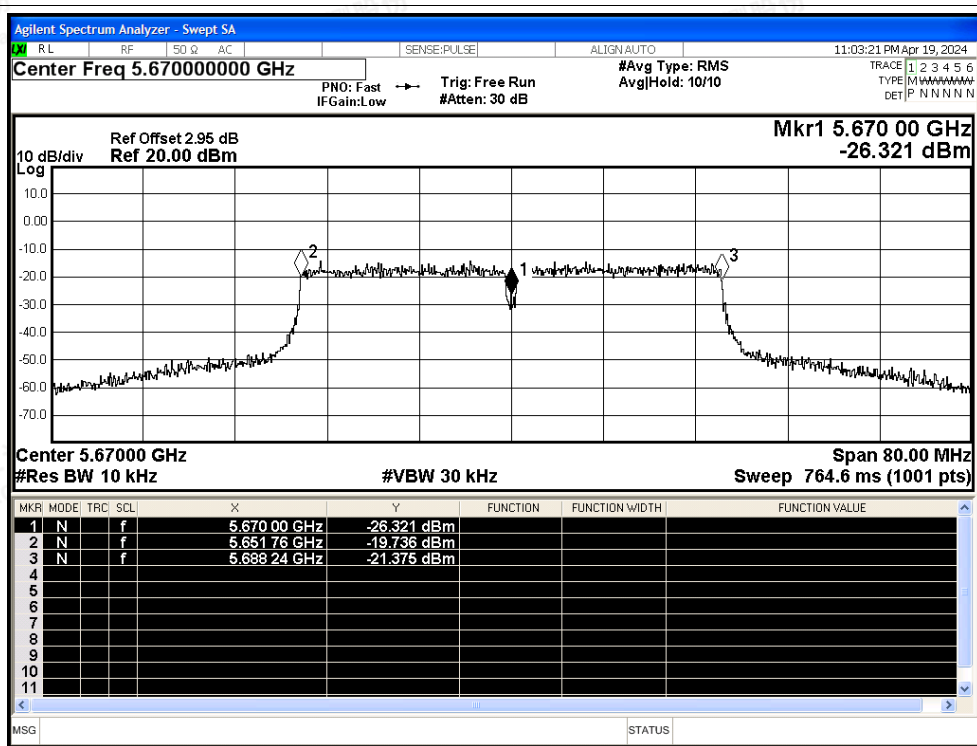




Freq. Stability NVNT ac40 5550MHz Ant2

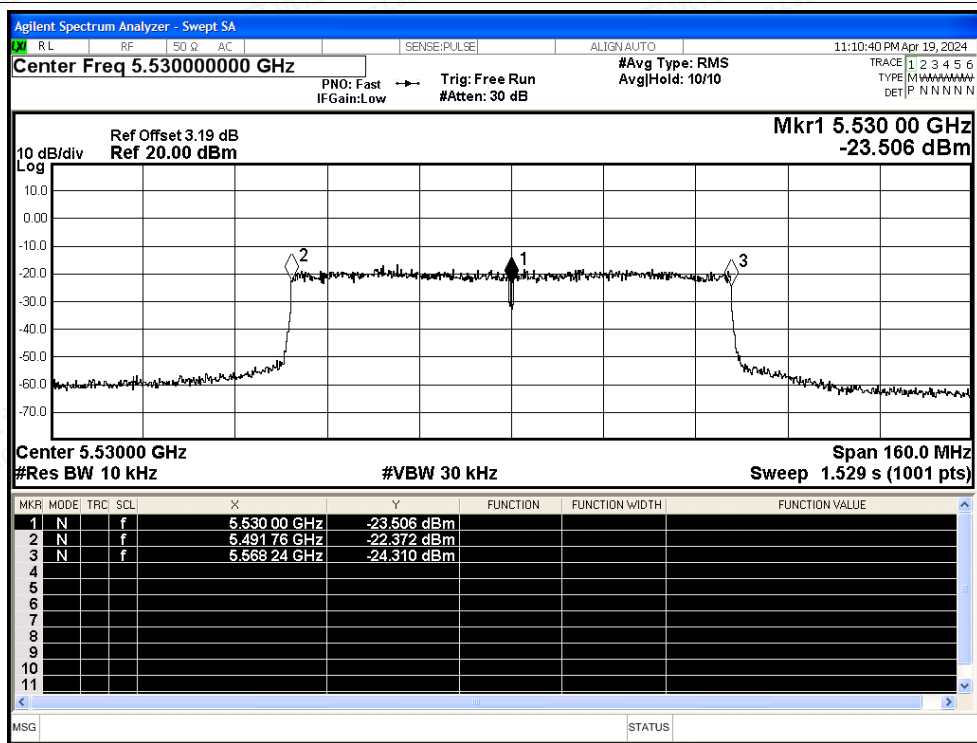


Freq. Stability NVNT ac40 5670MHz Ant2

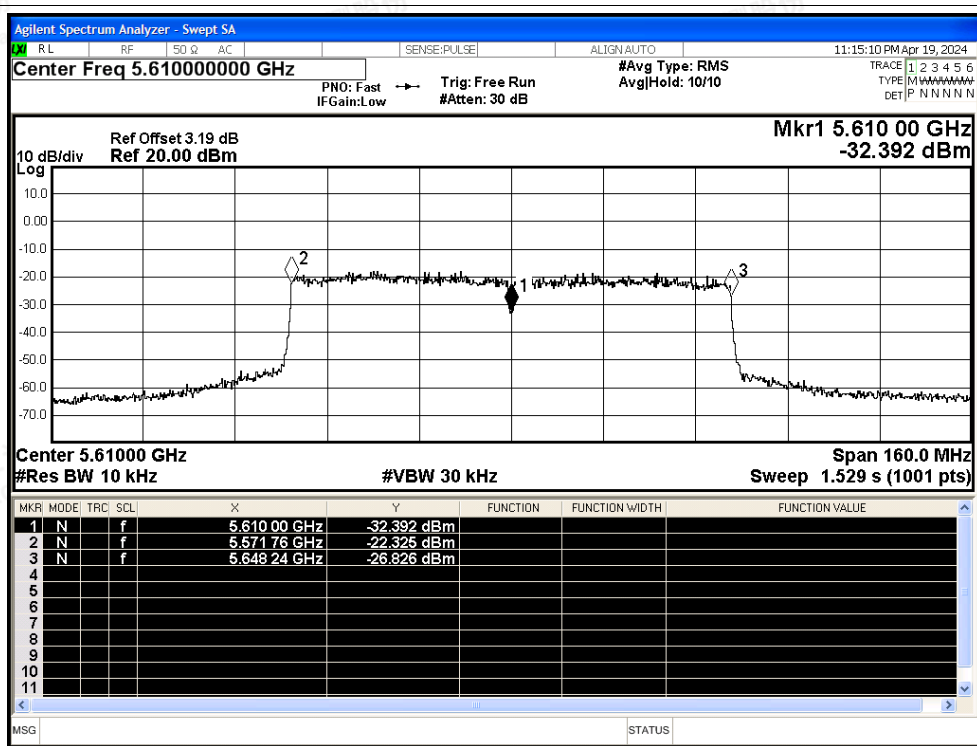




Freq. Stability NVNT ac80 5530MHz Ant2



Freq. Stability NVNT ac80 5610MHz Ant2





### F.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	94.56	0.24	0.91
NVNT	a	5580	Ant1	94.56	0.24	0.91
NVNT	a	5700	Ant1	94.56	0.24	0.91
NVNT	n20	5500	Ant1	93.77	0.28	1.07
NVNT	n20	5580	Ant1	93.77	0.28	1.07
NVNT	n20	5700	Ant1	93.77	0.28	1.07
NVNT	n40	5510	Ant1	94.71	0.24	0.9
NVNT	n40	5550	Ant1	94.71	0.24	0.9
NVNT	n40	5670	Ant1	94.71	0.24	0.9
NVNT	ac20	5500	Ant1	93.72	0.28	1.06
NVNT	ac20	5580	Ant1	93.72	0.28	1.06
NVNT	ac20	5700	Ant1	93.82	0.28	1.06
NVNT	ac40	5510	Ant1	94.72	0.24	0.9
NVNT	ac40	5550	Ant1	94.72	0.24	0.9
NVNT	ac40	5670	Ant1	94.72	0.24	0.9
NVNT	ac80	5530	Ant1	94.32	0.25	0.97
NVNT	ac80	5610	Ant1	94.32	0.25	0.97

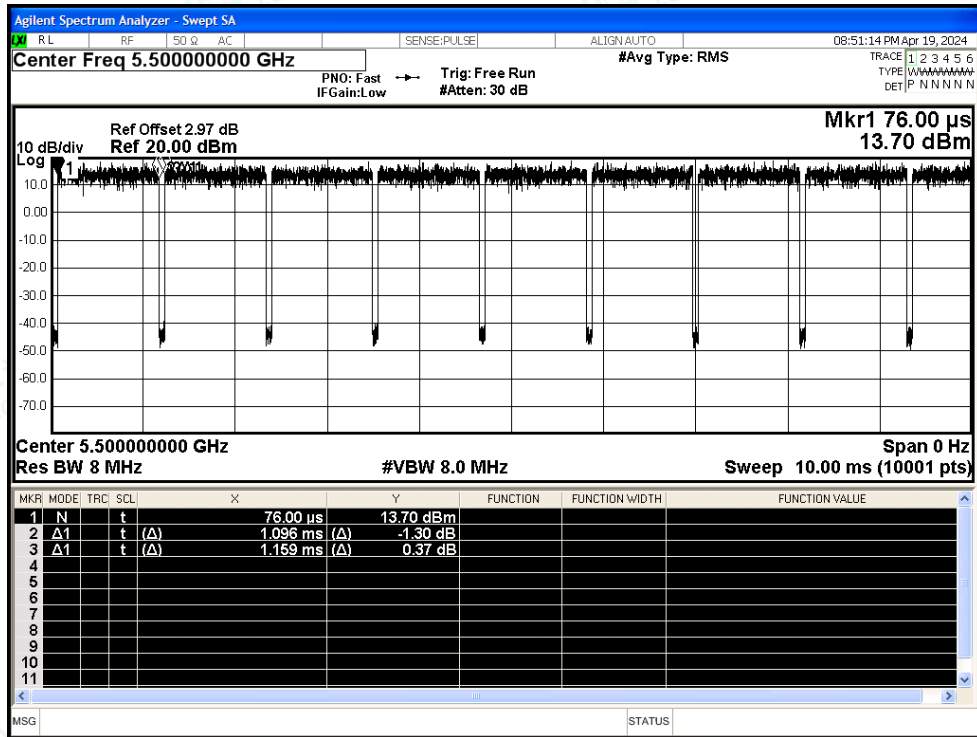


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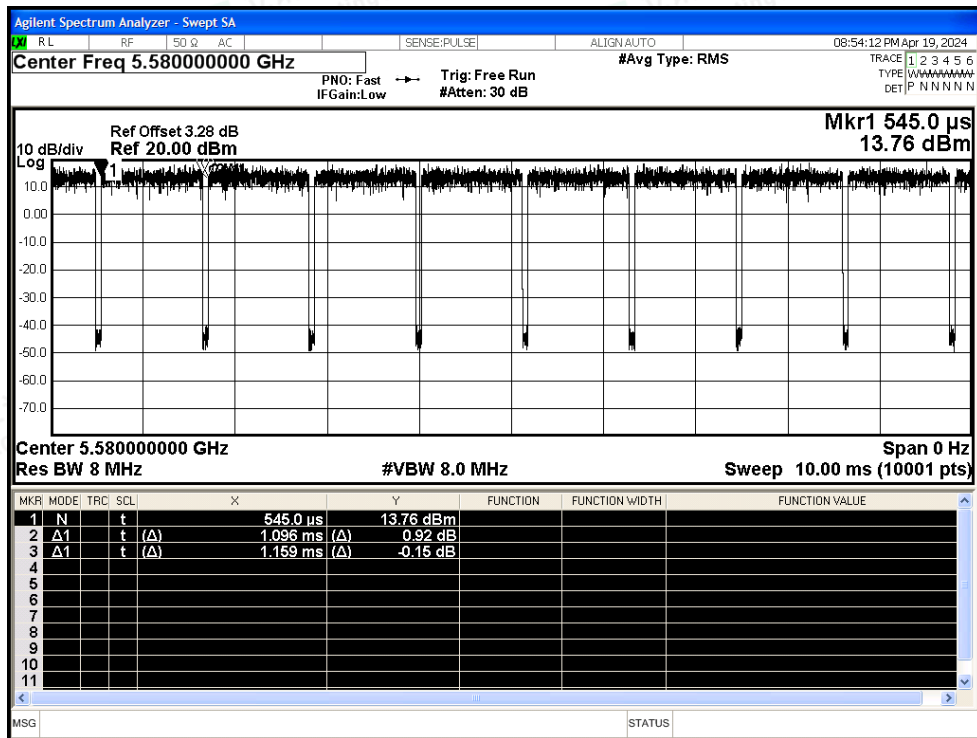


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1

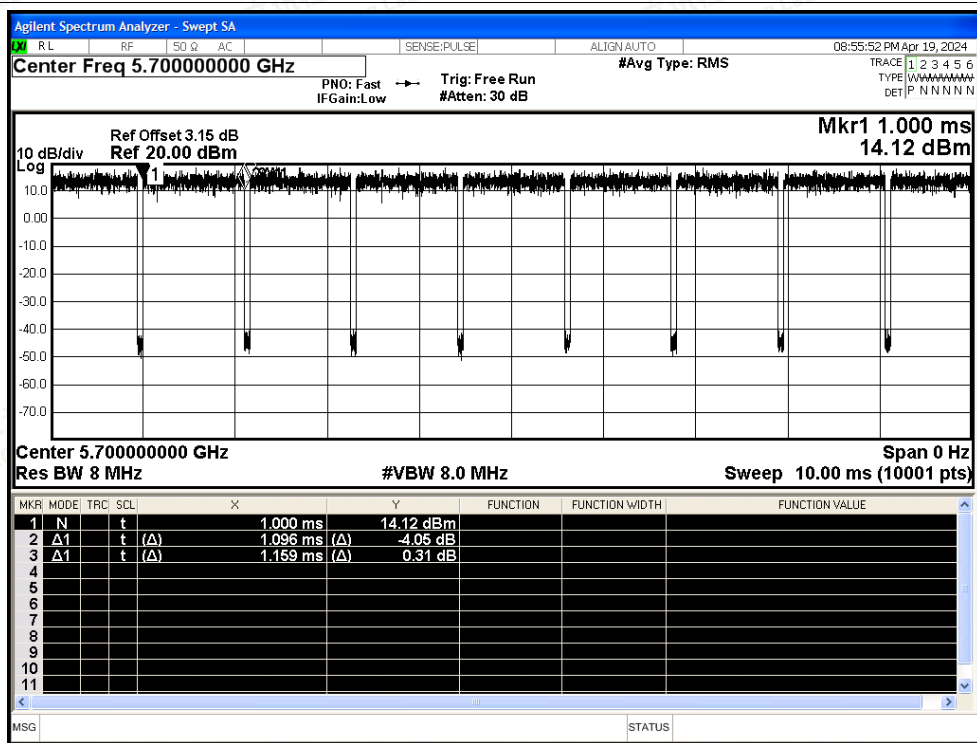


Duty Cycle NVNT a 5580MHz Ant1

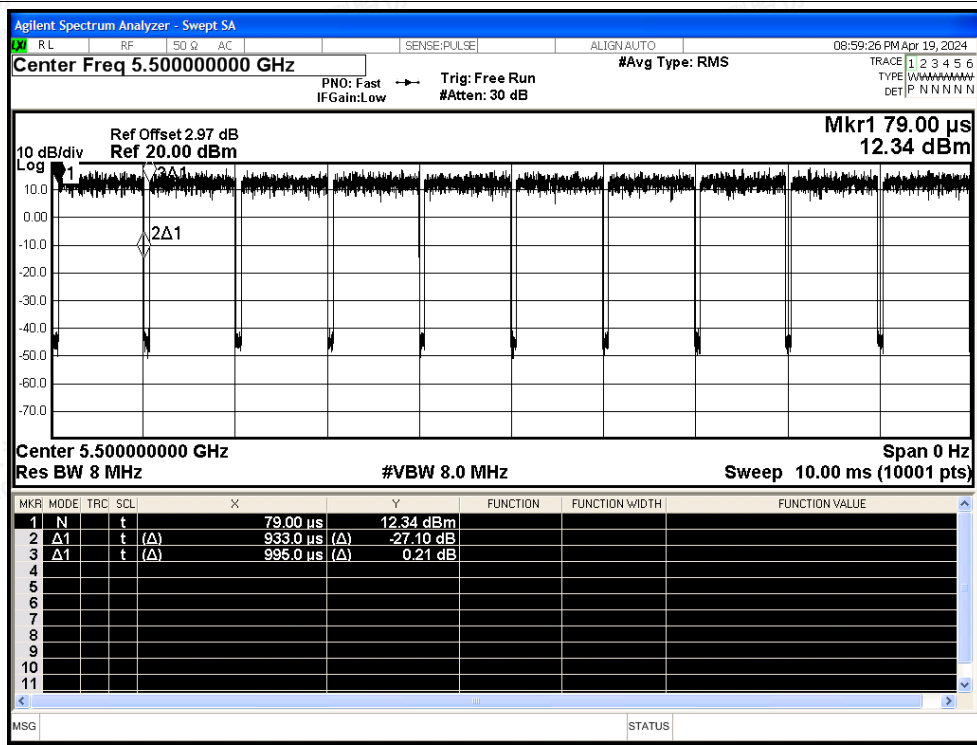




Duty Cycle NVNT a 5700MHz Ant1

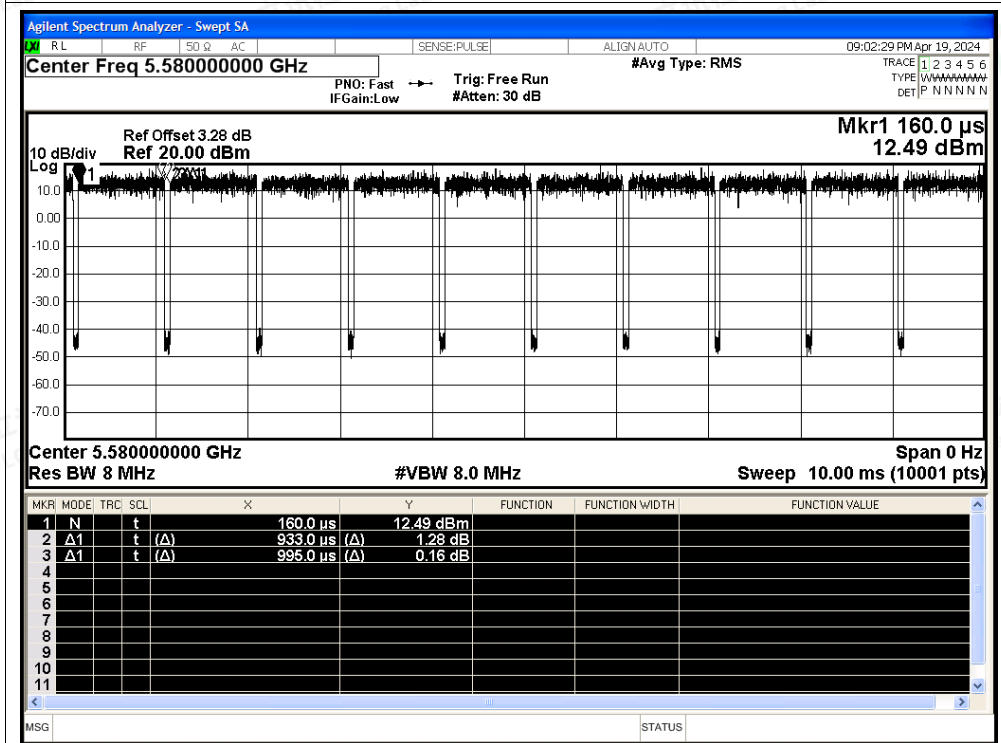


Duty Cycle NVNT n20 5500MHz Ant1

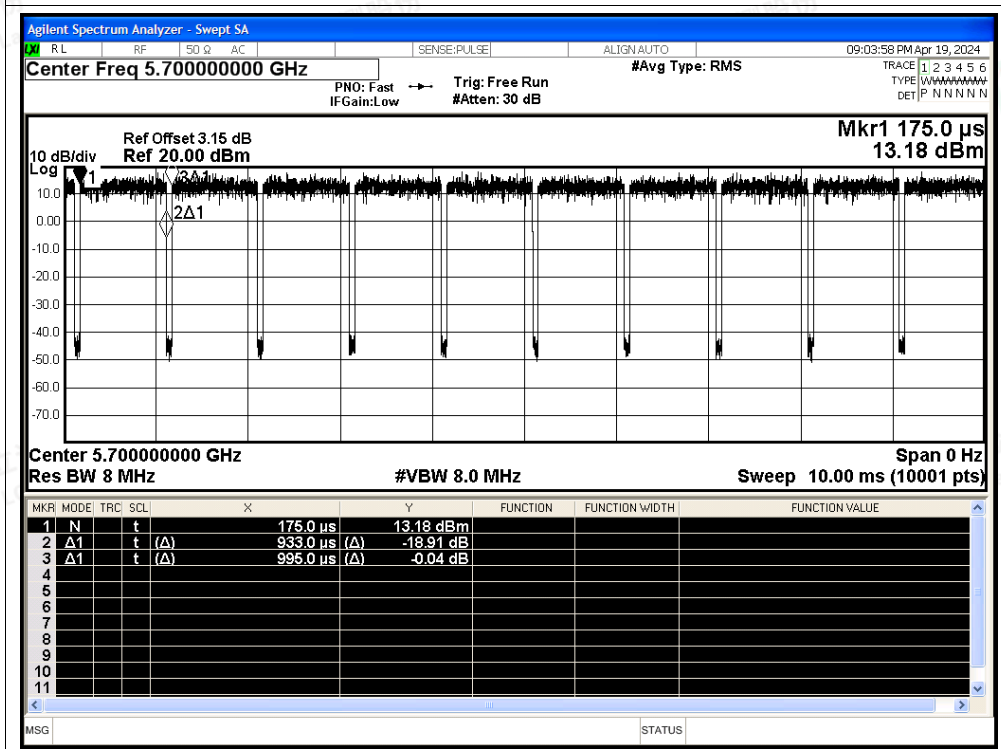




Duty Cycle NVNT n20 5580MHz Ant1

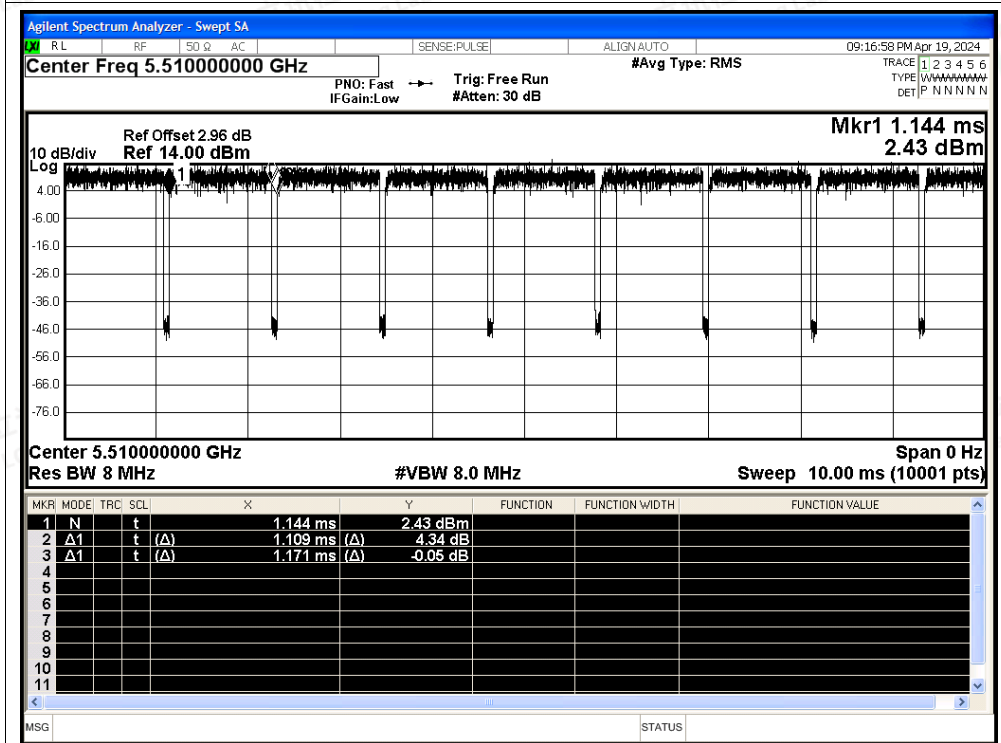


Duty Cycle NVNT n20 5700MHz Ant1

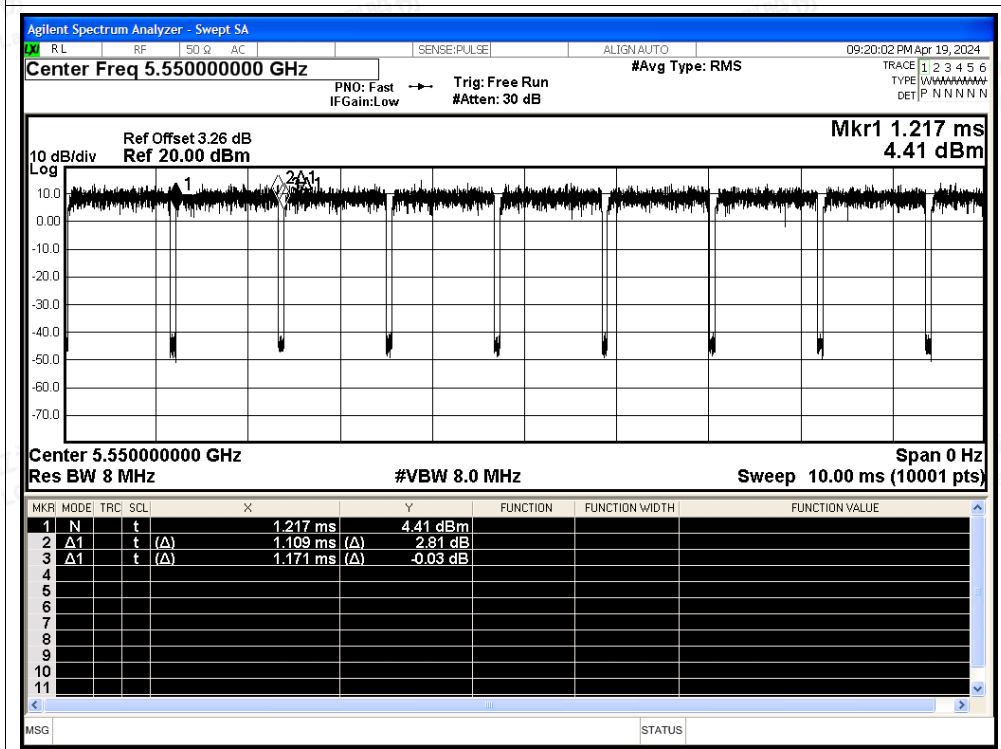




Duty Cycle NVNT n40 5510MHz Ant1



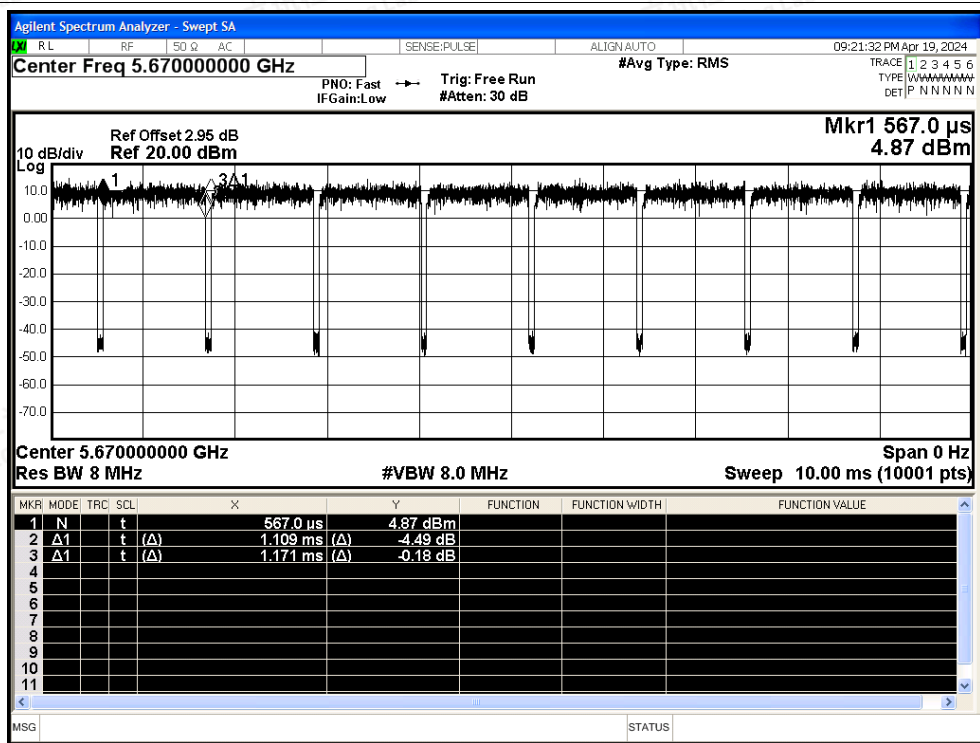
Duty Cycle NVNT n40 5550MHz Ant1



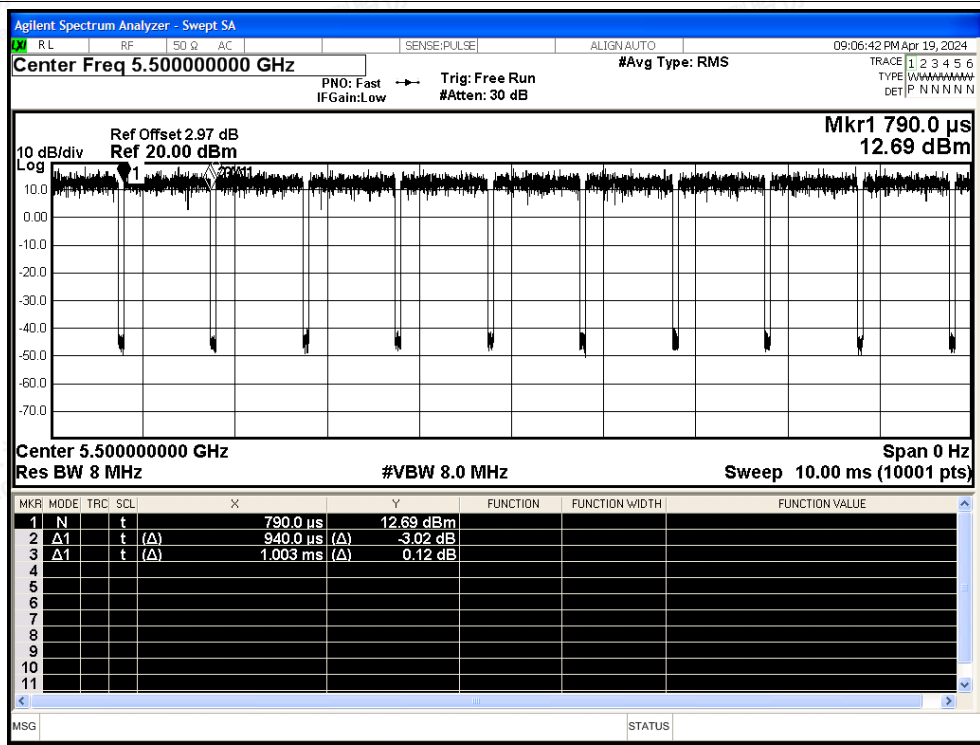




Duty Cycle NVNT n40 5670MHz Ant1

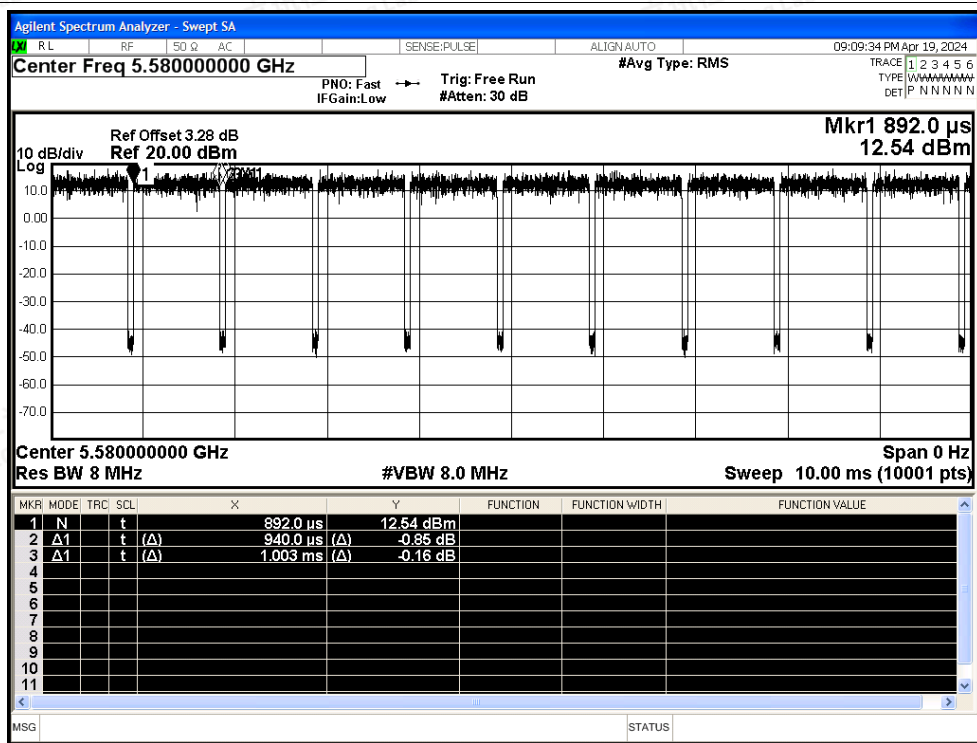


Duty Cycle NVNT ac20 5500MHz Ant1

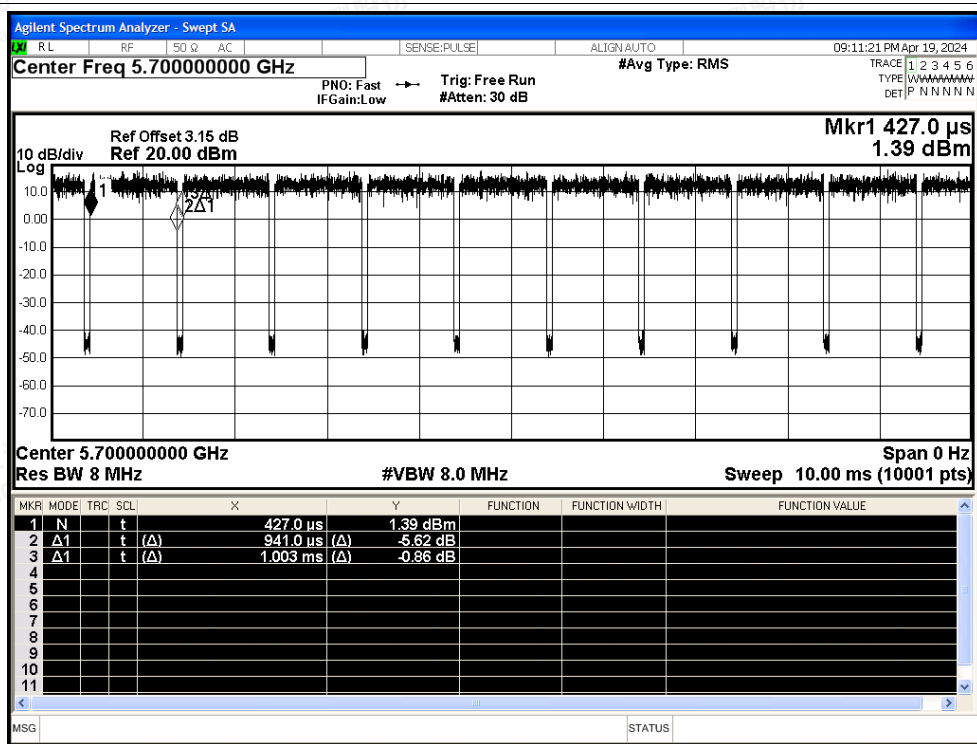




Duty Cycle NVNT ac20 5580MHz Ant1

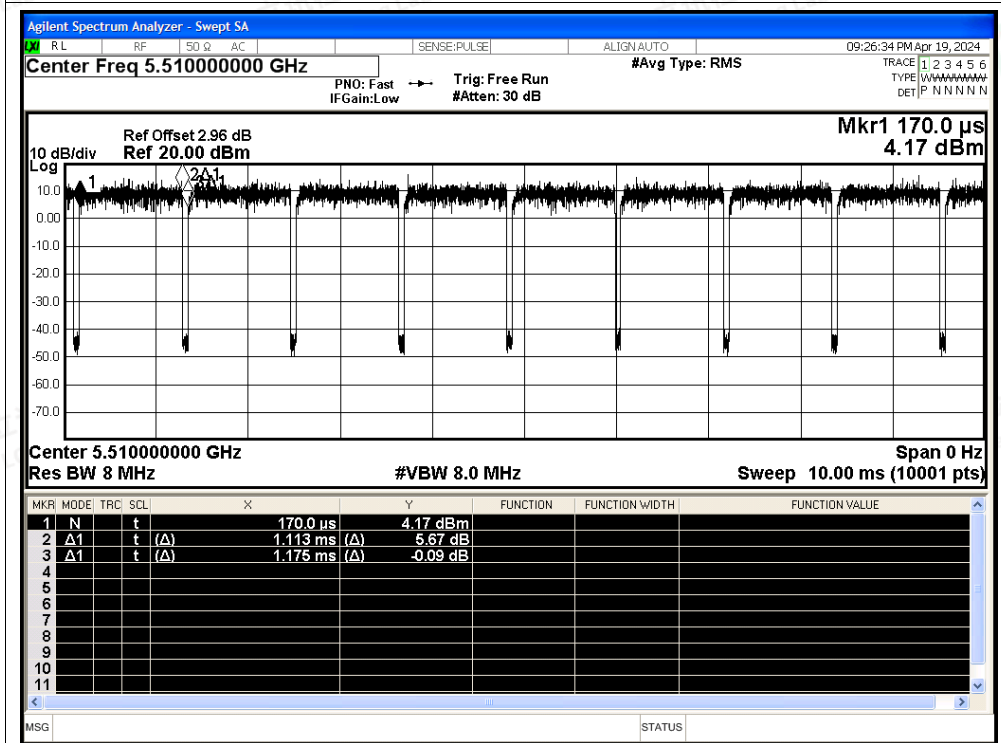


Duty Cycle NVNT ac20 5700MHz Ant1

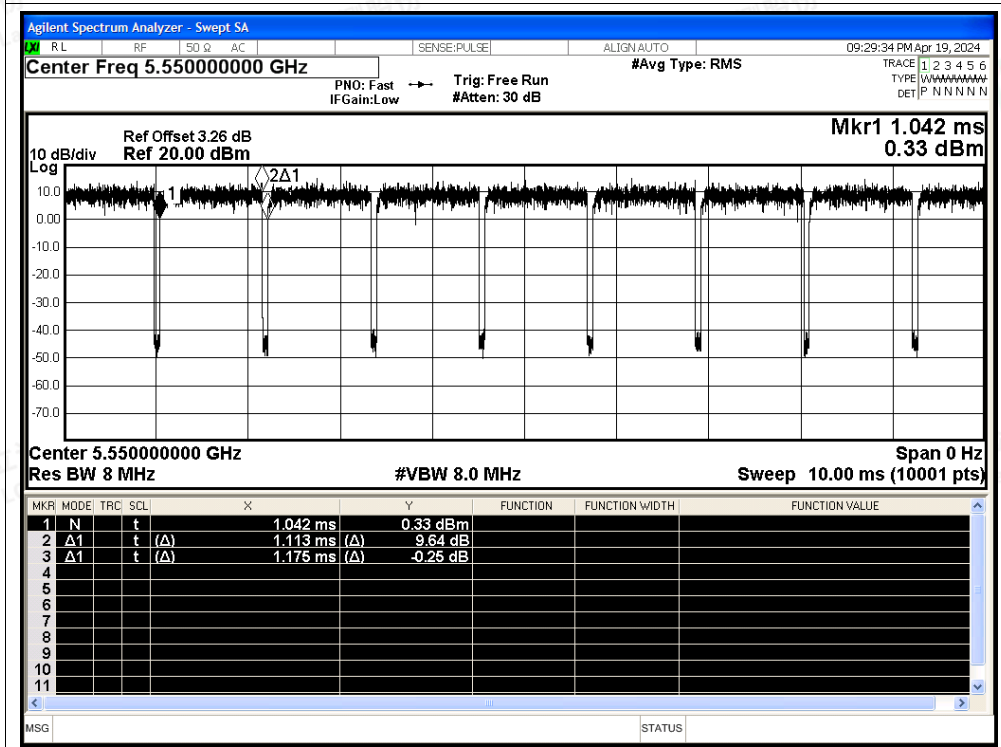




Duty Cycle NVNT ac40 5510MHz Ant1

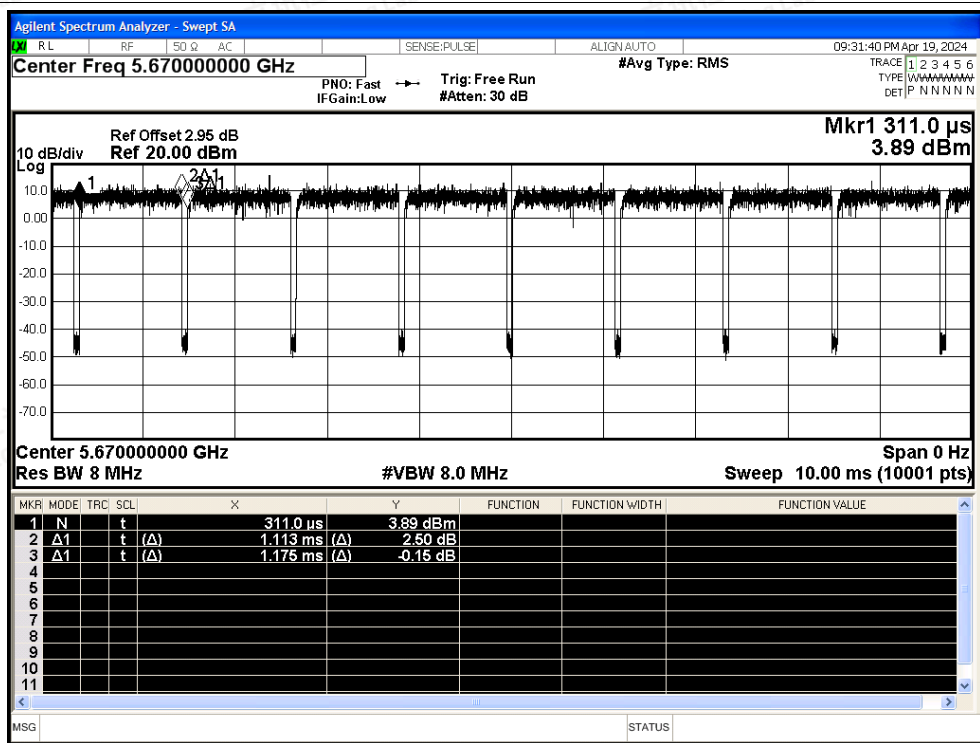


Duty Cycle NVNT ac40 5550MHz Ant1

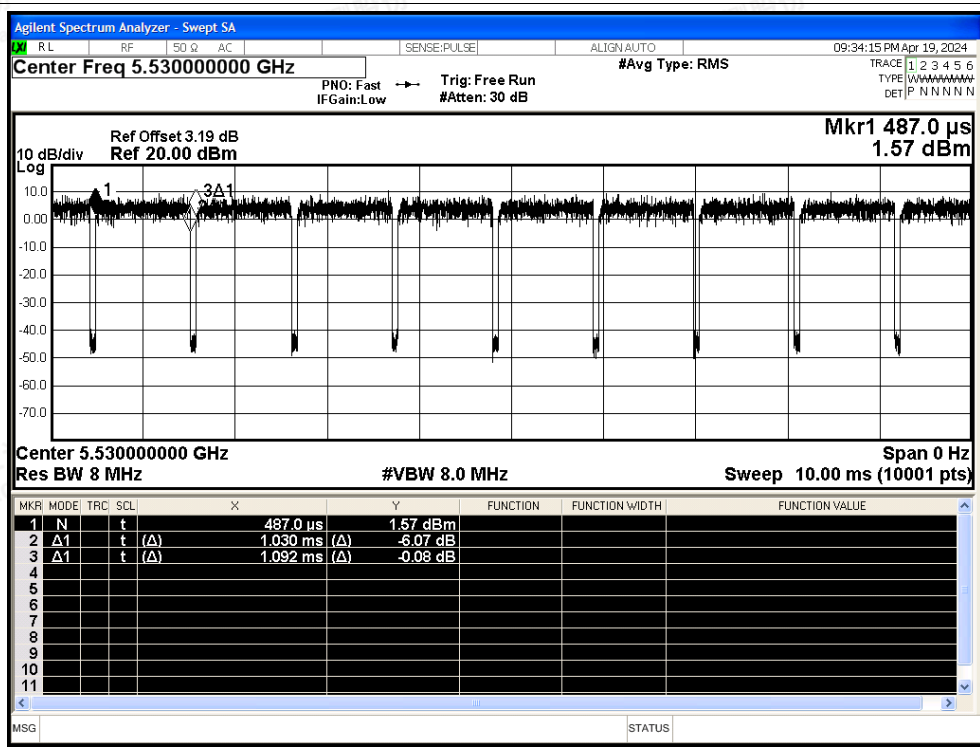


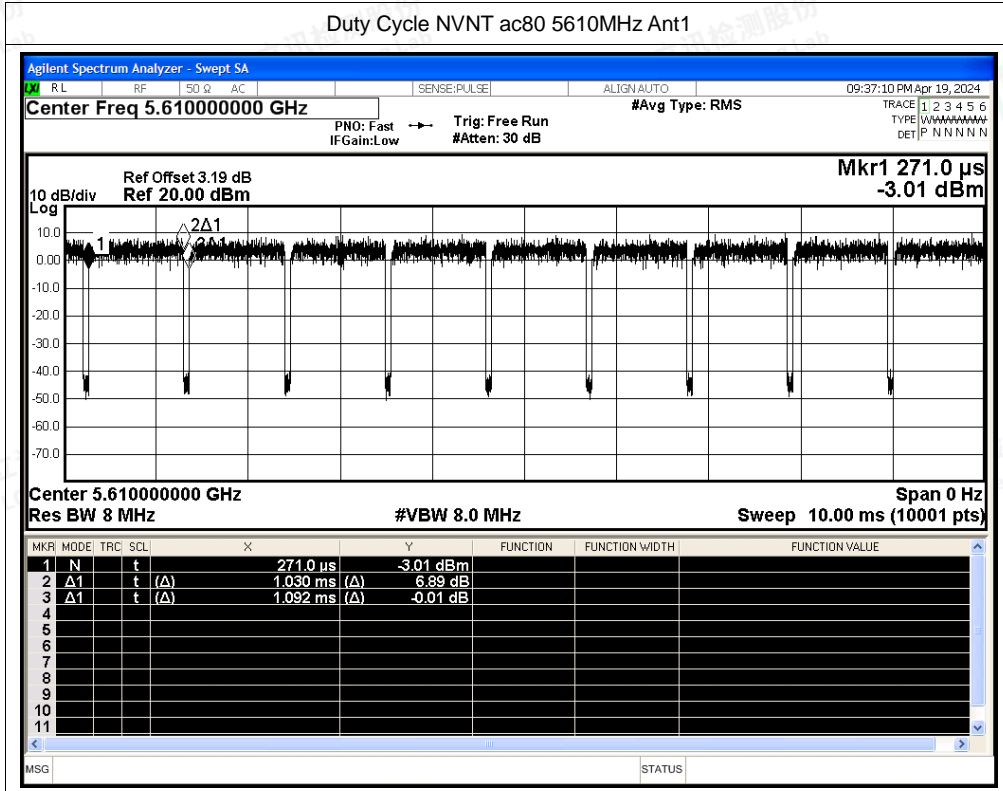


Duty Cycle NVNT ac40 5670MHz Ant1



Duty Cycle NVNT ac80 5530MHz Ant1







Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant2	94.56	0.24	0.91
NVNT	a	5580	Ant2	94.56	0.24	0.91
NVNT	a	5700	Ant2	94.56	0.24	0.91
NVNT	n20	5500	Ant2	93.77	0.28	1.07
NVNT	n20	5580	Ant2	93.77	0.28	1.07
NVNT	n20	5700	Ant2	93.77	0.28	1.07
NVNT	n40	5510	Ant2	94.71	0.24	0.9
NVNT	n40	5550	Ant2	94.71	0.24	0.9
NVNT	n40	5670	Ant2	94.71	0.24	0.9
NVNT	ac20	5500	Ant2	93.72	0.28	1.06
NVNT	ac20	5580	Ant2	93.72	0.28	1.06
NVNT	ac20	5700	Ant2	93.72	0.28	1.06
NVNT	ac40	5510	Ant2	94.72	0.24	0.9
NVNT	ac40	5550	Ant2	94.72	0.24	0.9
NVNT	ac40	5670	Ant2	94.72	0.24	0.9
NVNT	ac80	5530	Ant2	94.32	0.25	0.97
NVNT	ac80	5610	Ant2	94.32	0.25	0.97

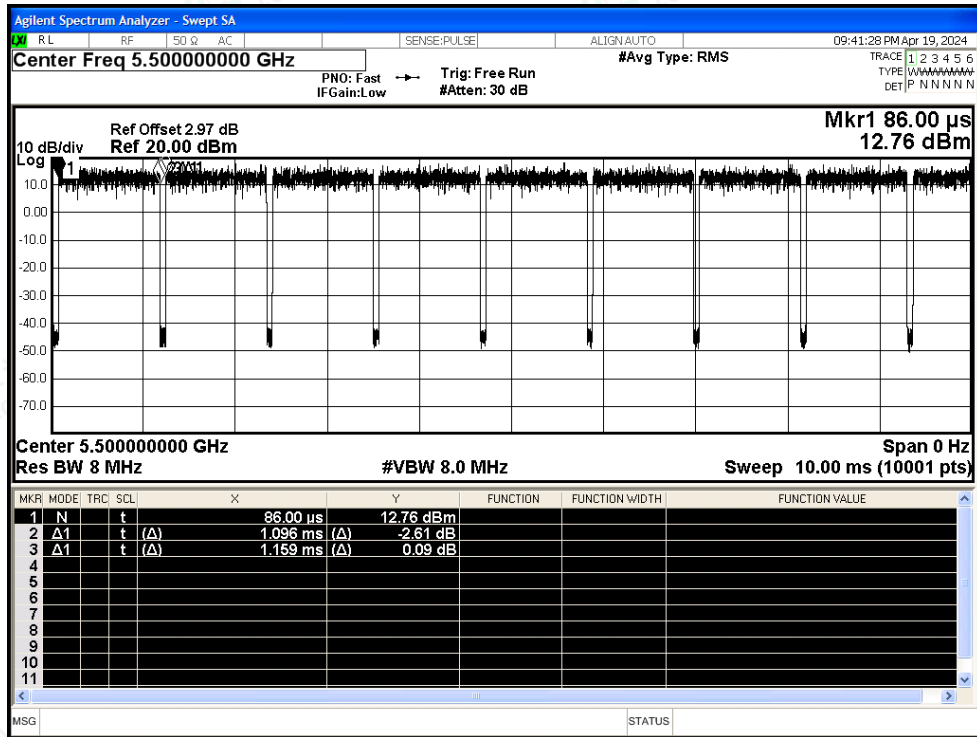


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 Scan code to check authenticity

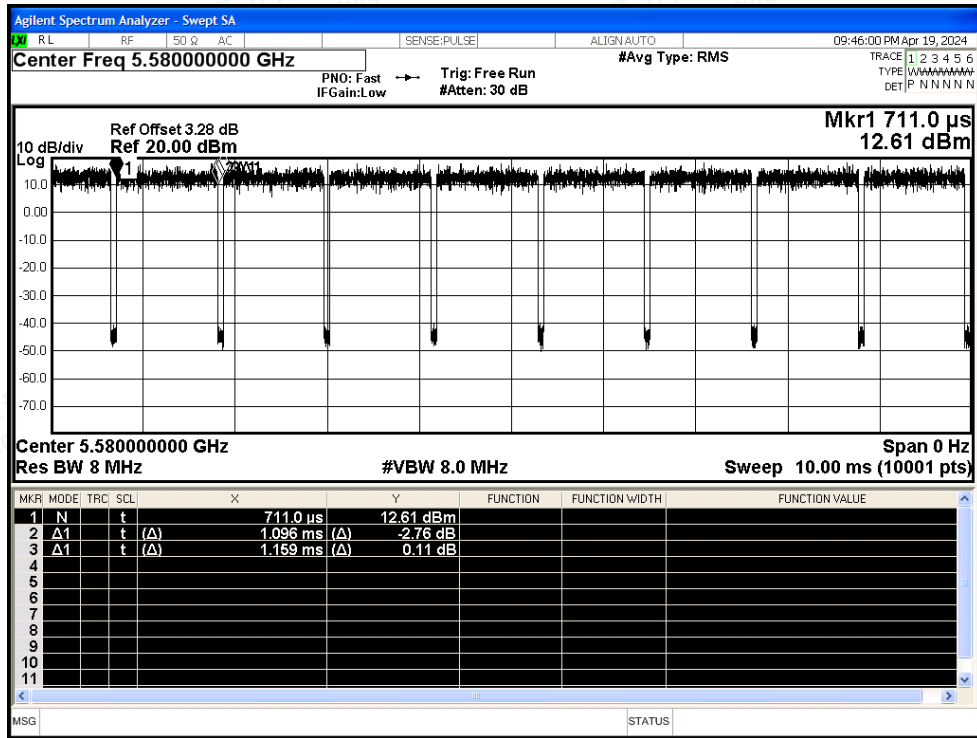


Test Graphs

Duty Cycle NVNT a 5500MHz Ant2

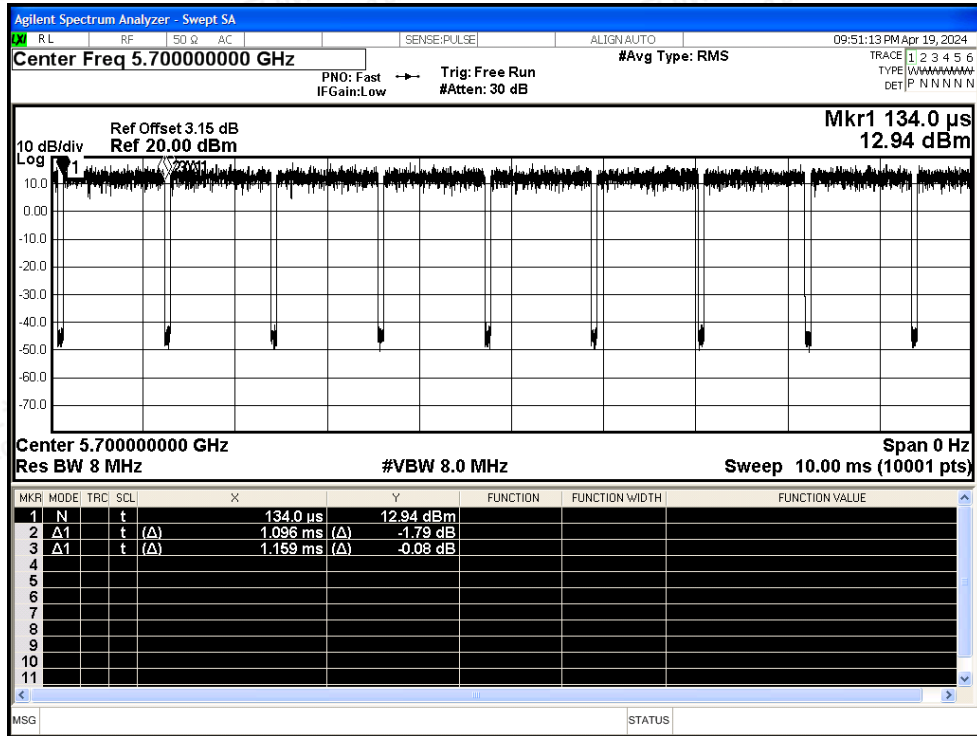


Duty Cycle NVNT a 5580MHz Ant2

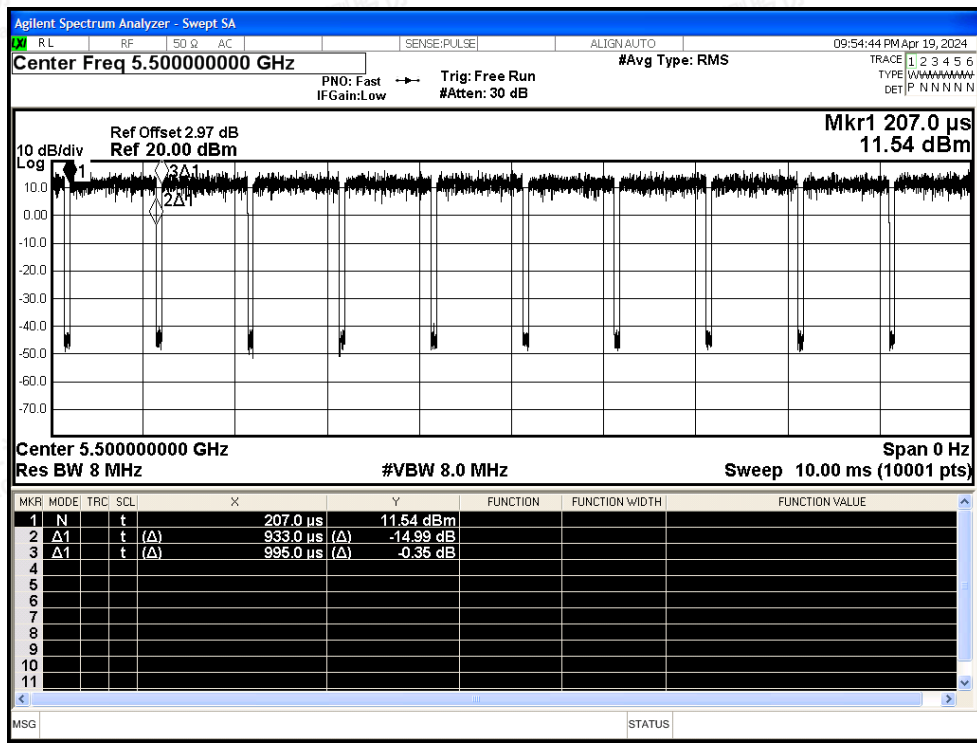




Duty Cycle NVNT a 5700MHz Ant2



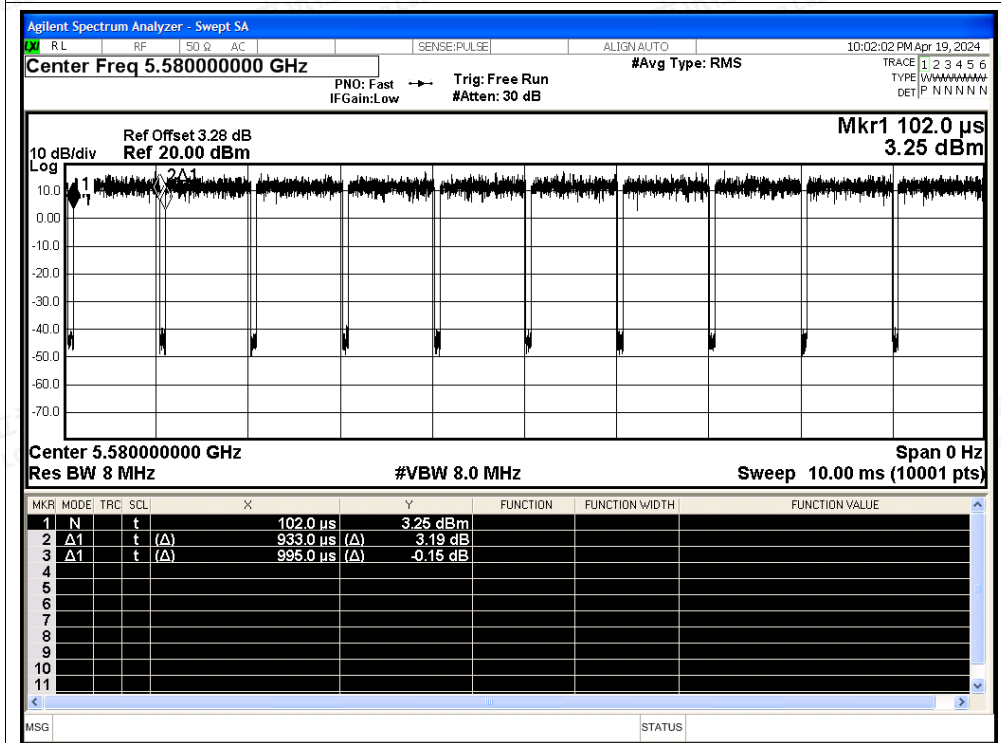
Duty Cycle NVNT n20 5500MHz Ant2



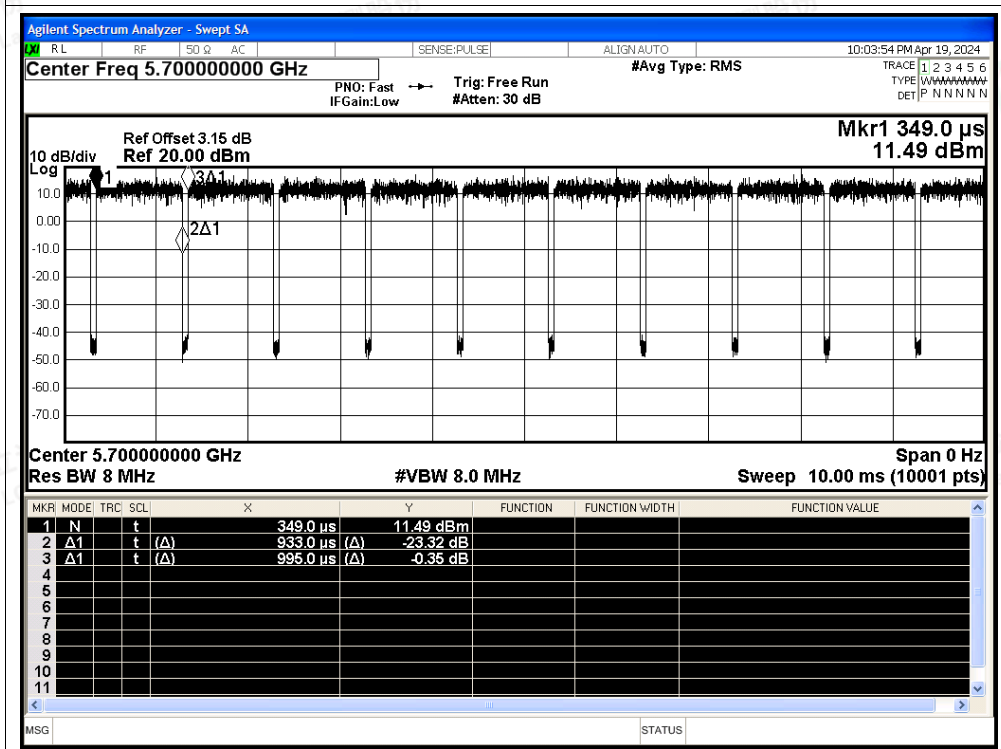




Duty Cycle NVNT n20 5580MHz Ant2

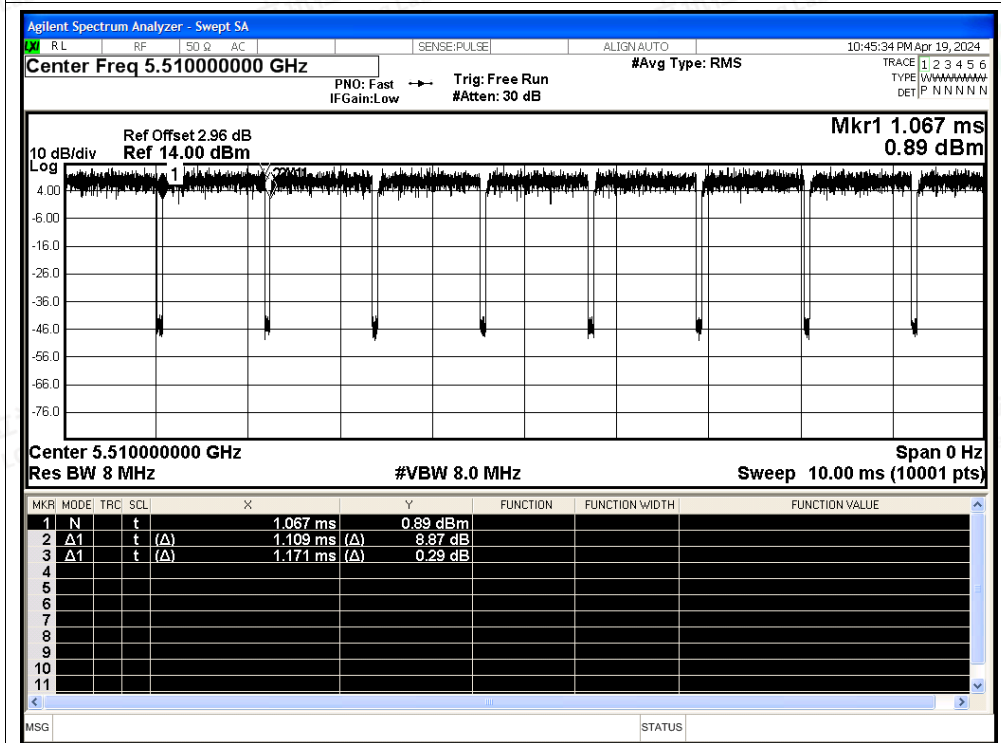


Duty Cycle NVNT n20 5700MHz Ant2

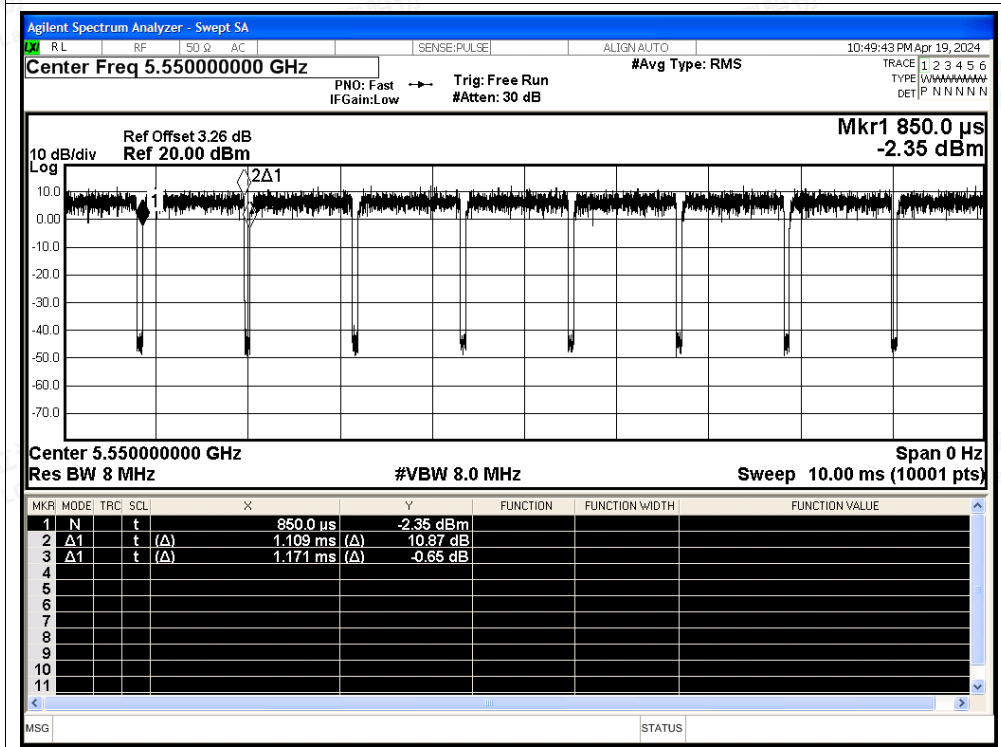




Duty Cycle NVNT n40 5510MHz Ant2

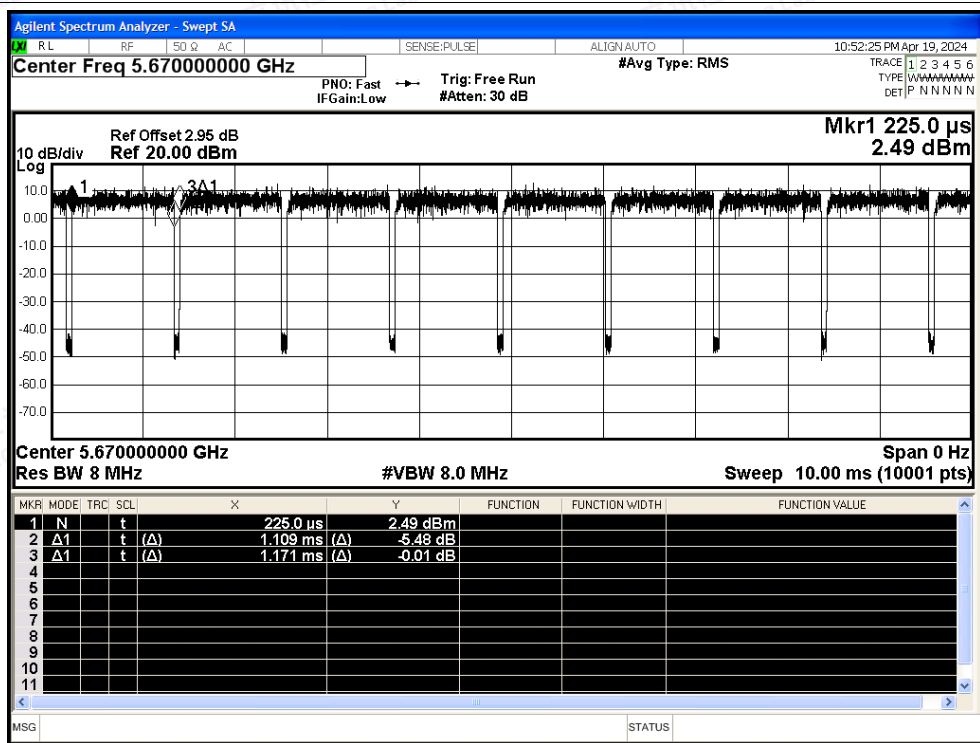


Duty Cycle NVNT n40 5550MHz Ant2

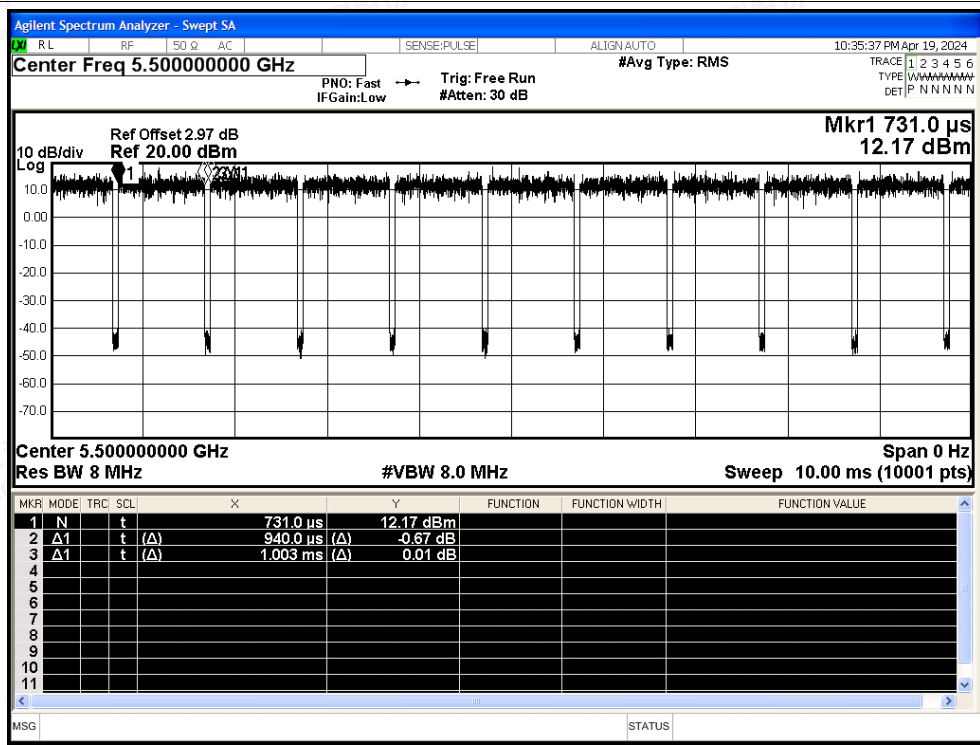


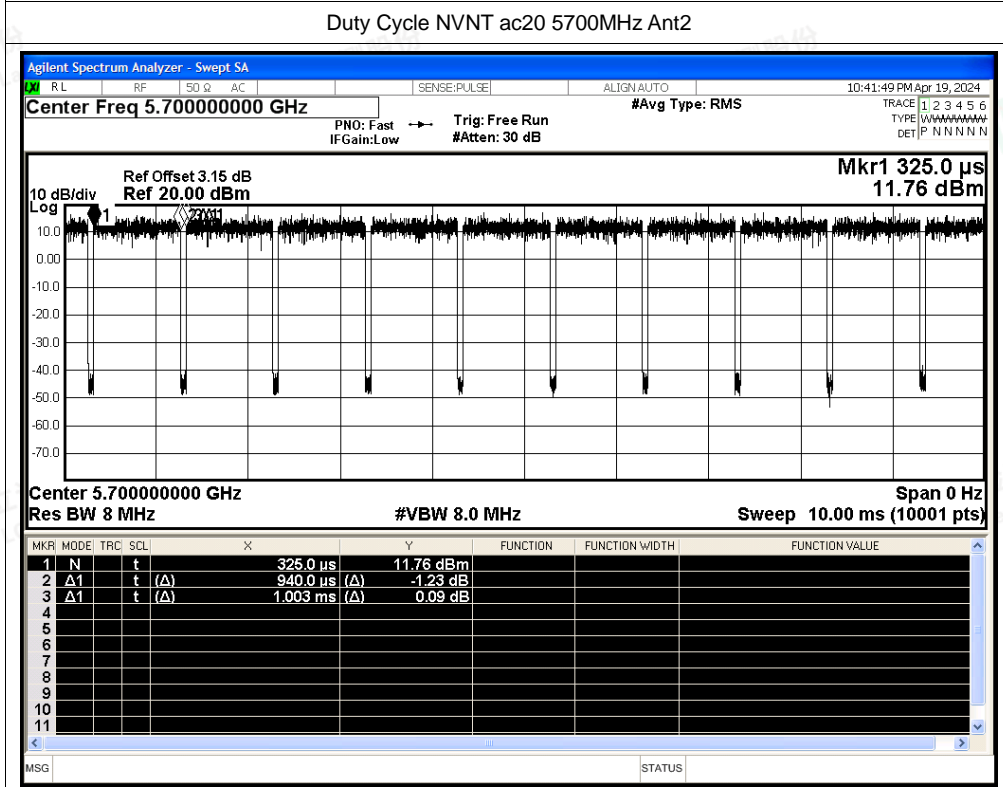
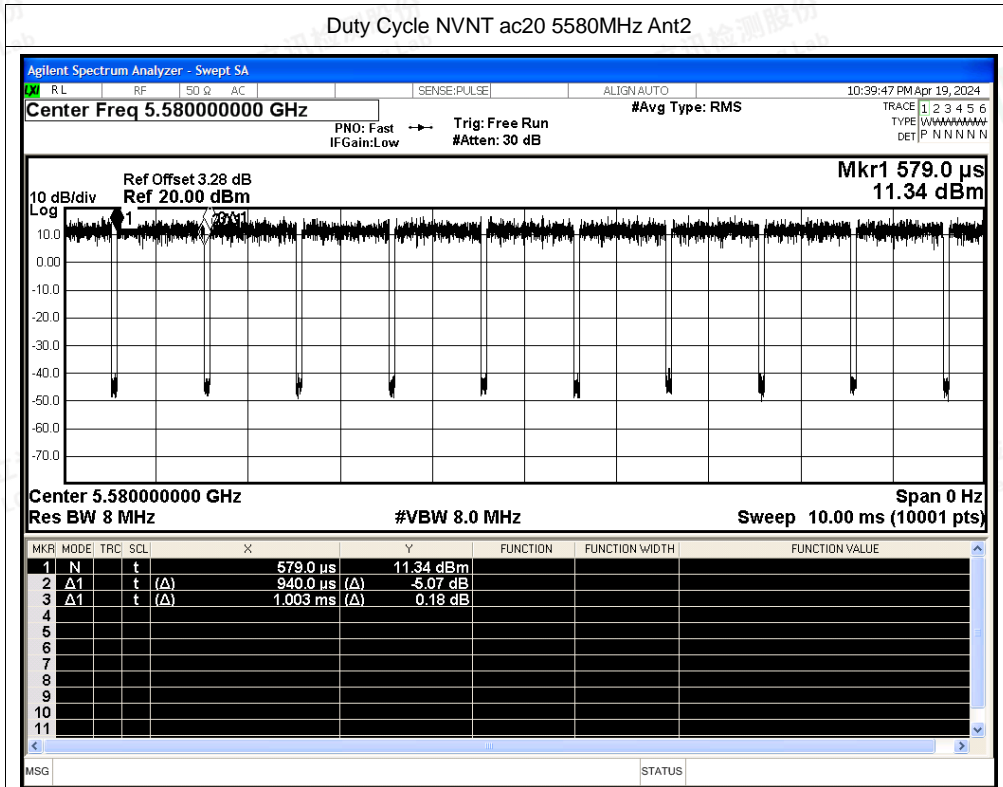


Duty Cycle NVNT n40 5670MHz Ant2



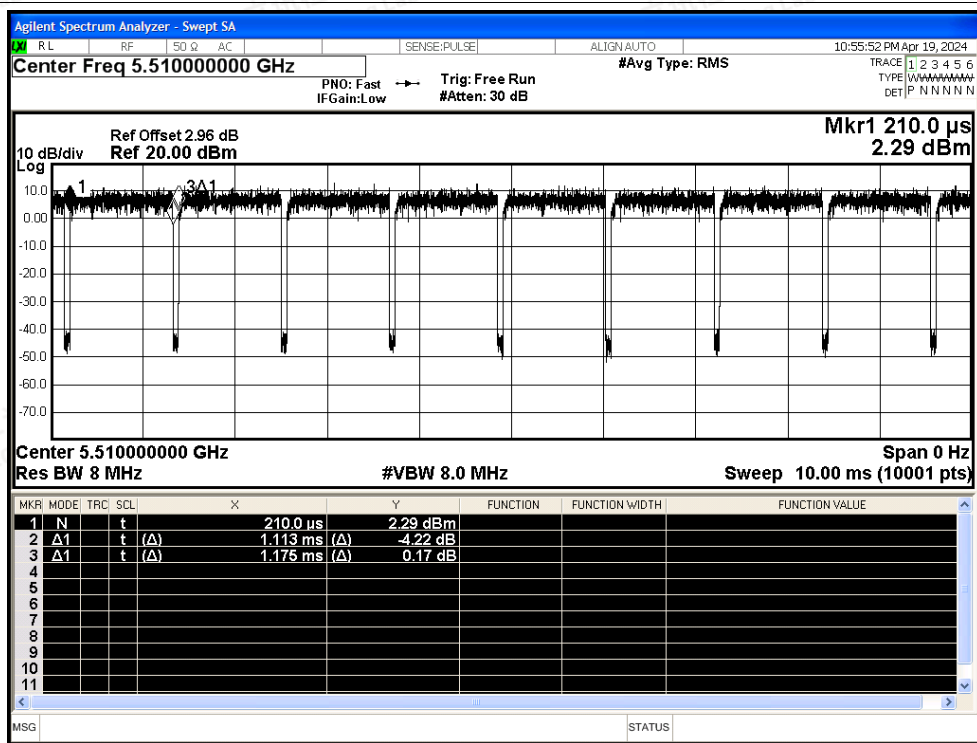
Duty Cycle NVNT ac20 5500MHz Ant2



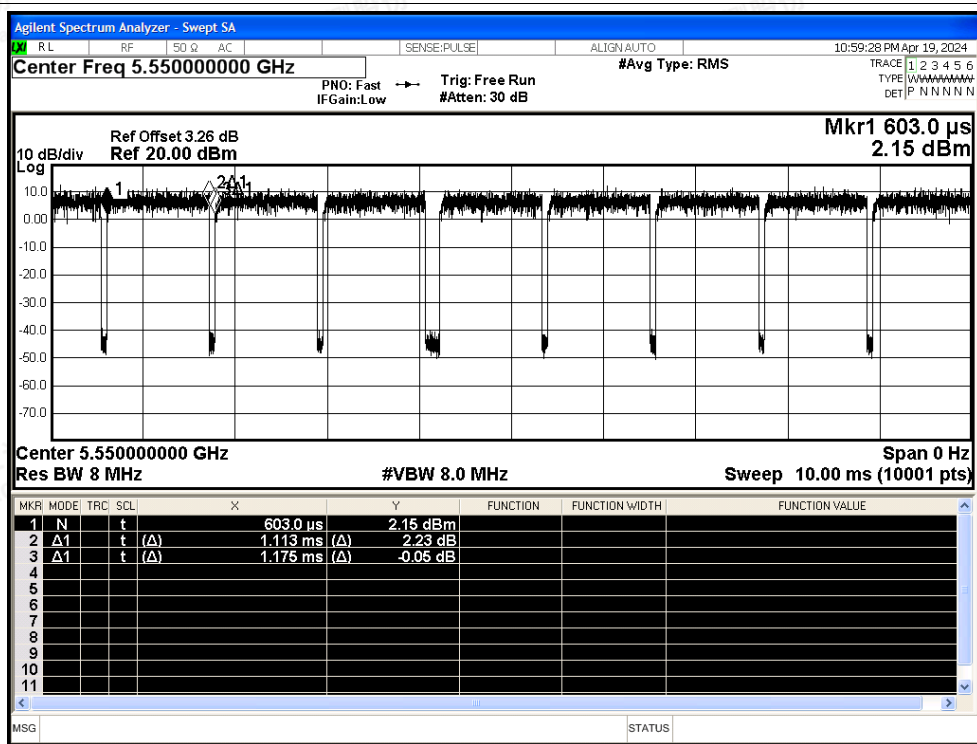




Duty Cycle NVNT ac40 5510MHz Ant2

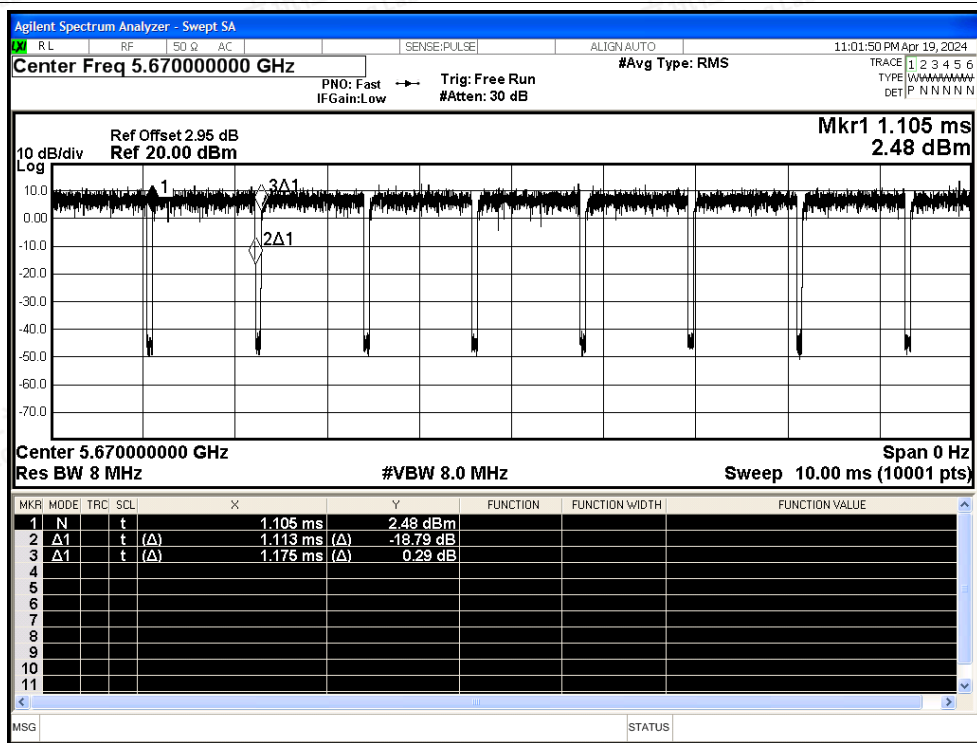


Duty Cycle NVNT ac40 5550MHz Ant2





Duty Cycle NVNT ac40 5670MHz Ant2



Duty Cycle NVNT ac80 5530MHz Ant2

