



Appendix F

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: GNSS Receiver

Test Model: Jupiter

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	27.918	---	Pass
NVNT	a	5580	Ant1	28.856	---	Pass
NVNT	a	5700	Ant1	29.096	---	Pass
NVNT	n20	5500	Ant1	28.274	---	Pass
NVNT	n20	5580	Ant1	26.992	---	Pass
NVNT	n20	5700	Ant1	27.66	---	Pass
NVNT	n40	5510	Ant1	40.403	---	Pass
NVNT	n40	5550	Ant1	40.461	---	Pass
NVNT	n40	5670	Ant1	45.419	---	Pass

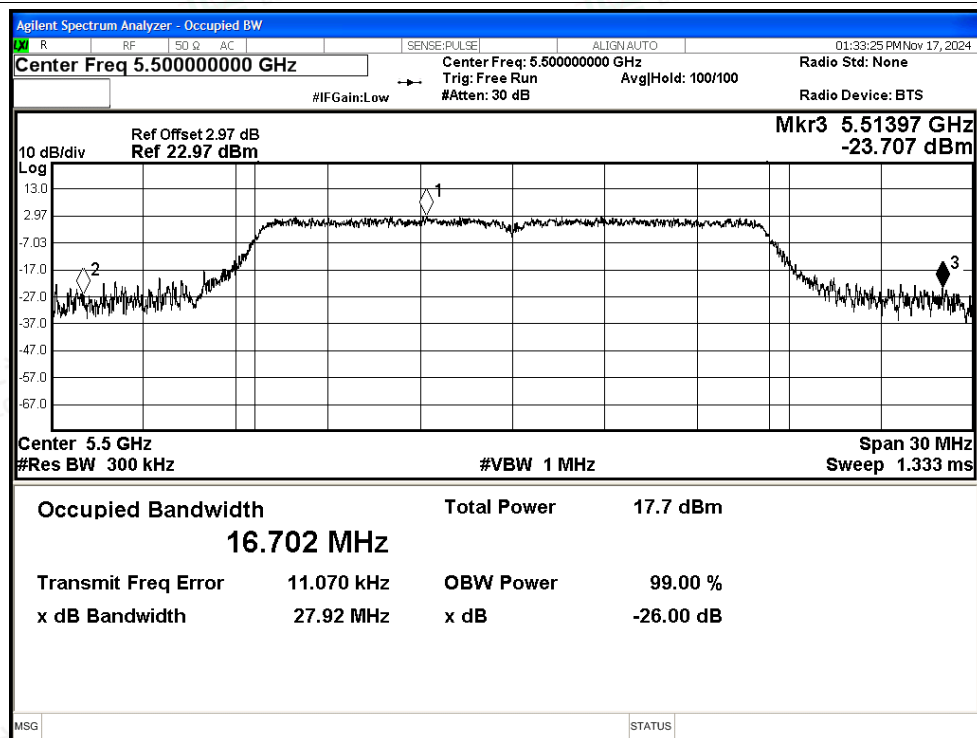


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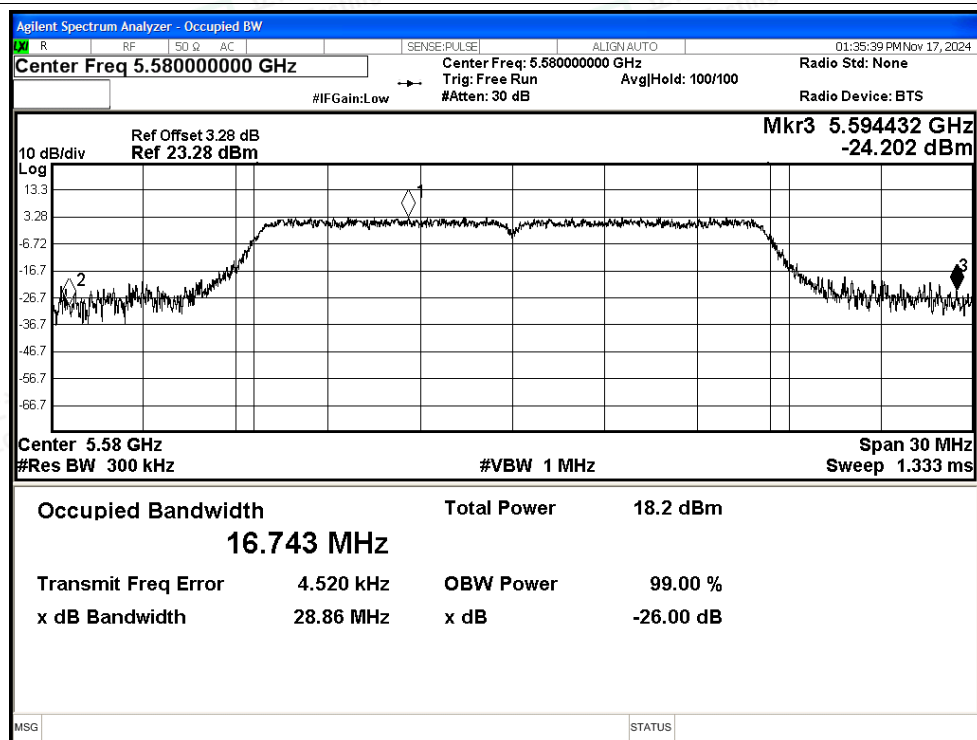


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1

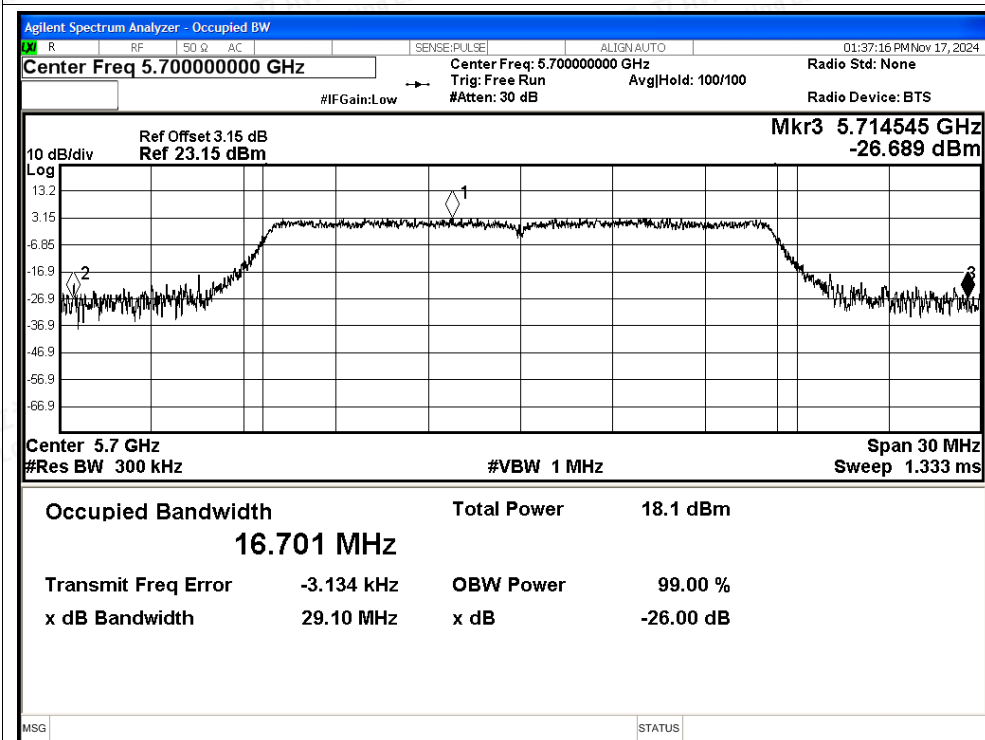


-26dB Bandwidth NVNT a 5580MHz Ant1

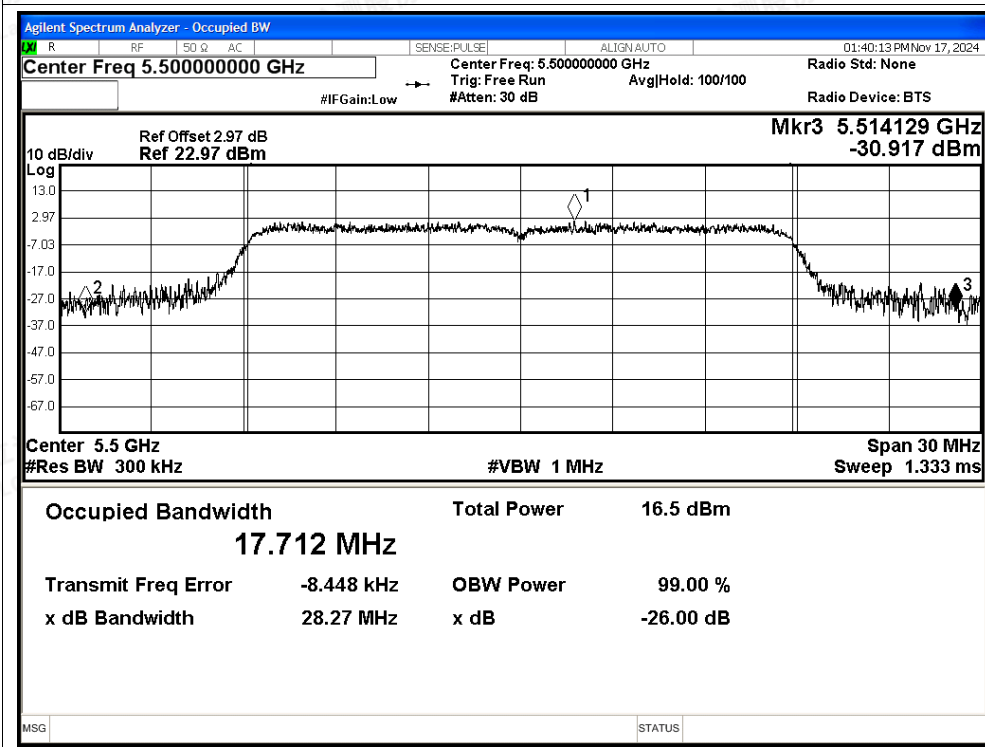




-26dB Bandwidth NVNT a 5700MHz Ant1

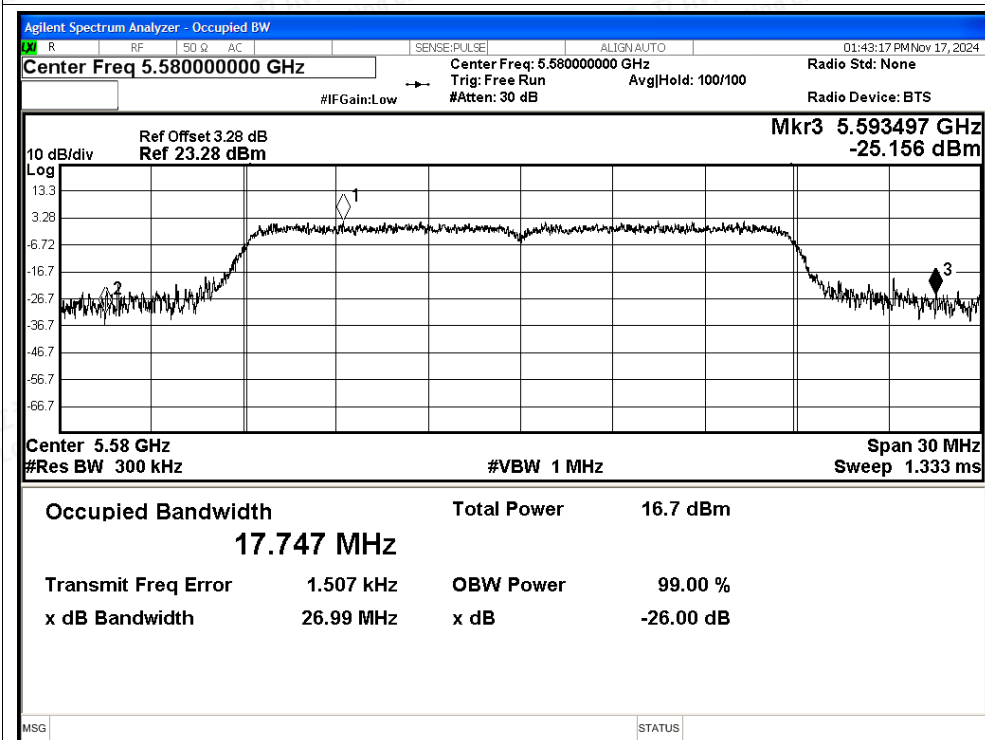


-26dB Bandwidth NVNT n20 5500MHz Ant1

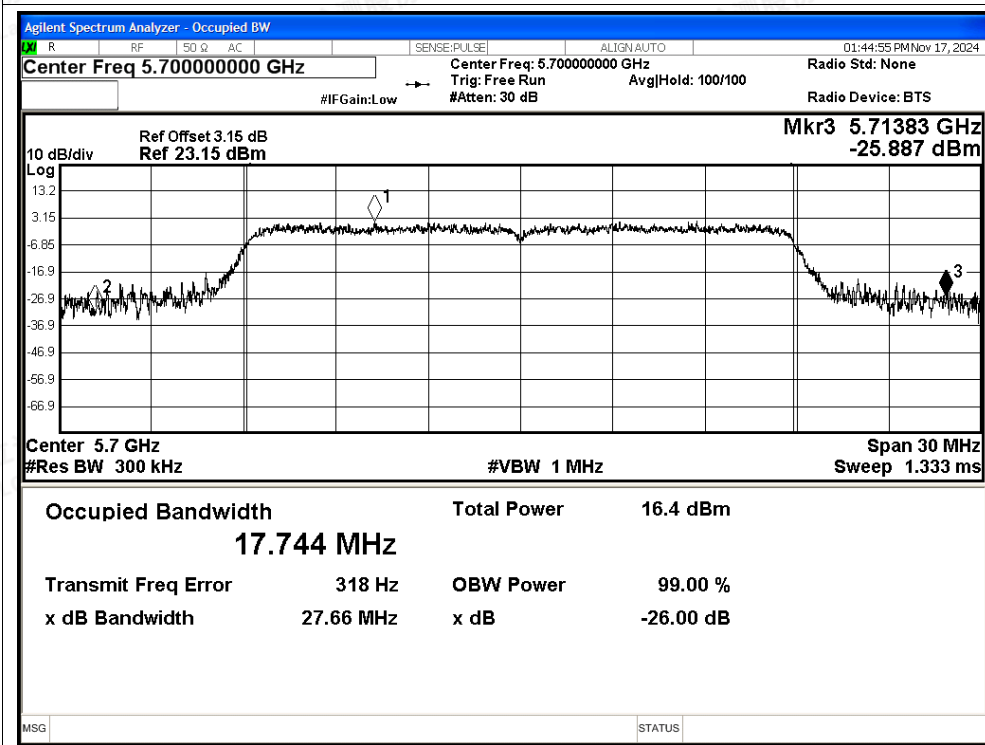




-26dB Bandwidth NVNT n20 5580MHz Ant1

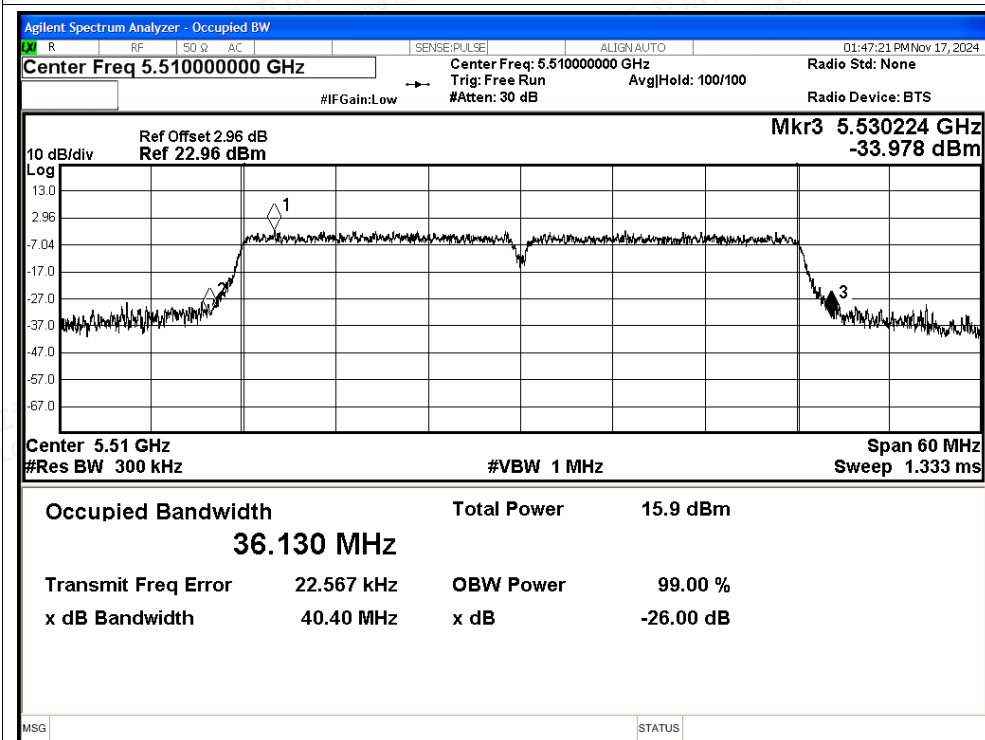


-26dB Bandwidth NVNT n20 5700MHz Ant1

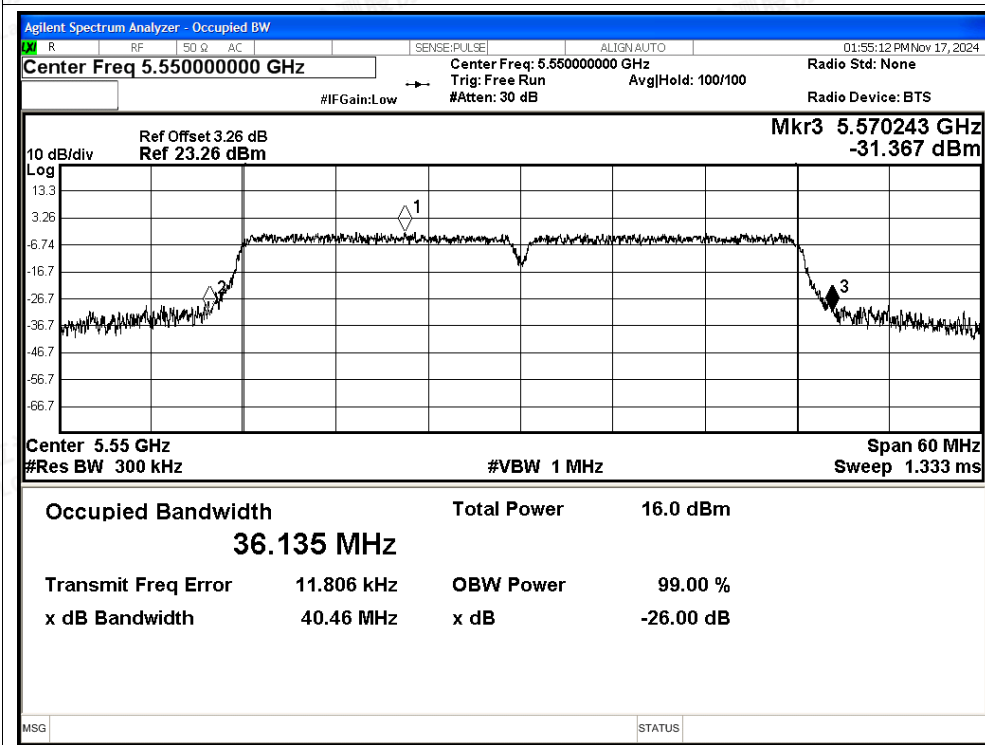




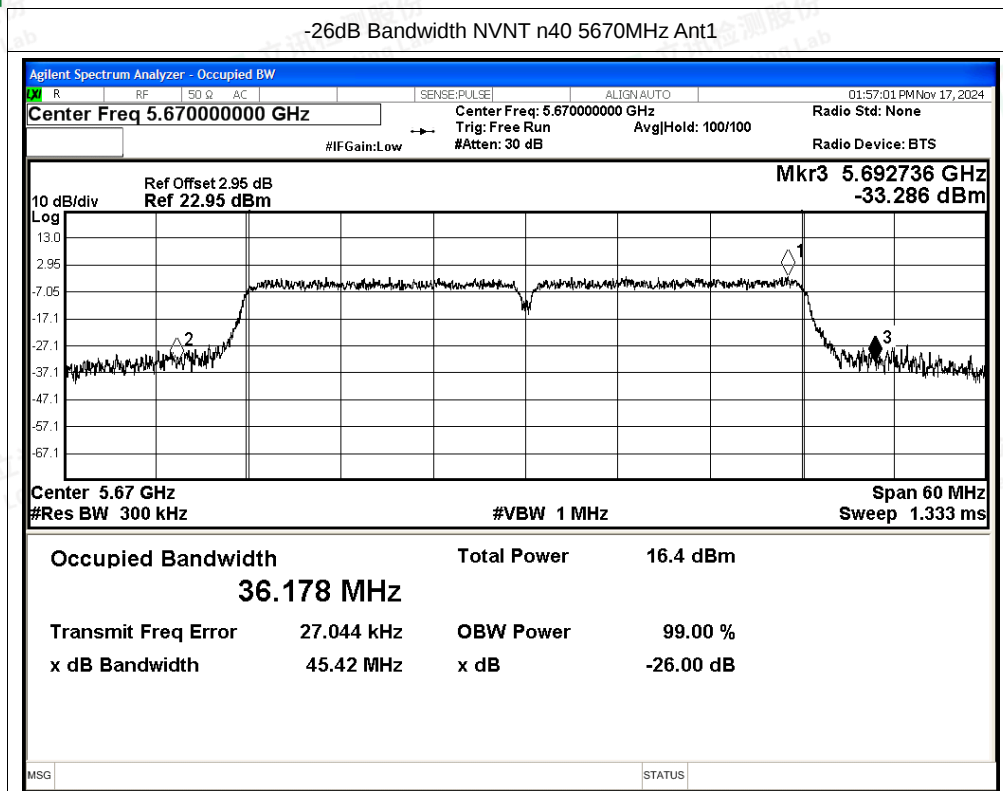
-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1



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F.2 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	12.07	0.24	12.31	24	Pass
NVNT	a	5580	Ant1	12.54	0.24	12.78	24	Pass
NVNT	a	5700	Ant1	12.41	0.24	12.65	24	Pass
NVNT	n20	5500	Ant1	11.04	0.12	11.16	24	Pass
NVNT	n20	5580	Ant1	11.04	0.12	11.16	24	Pass
NVNT	n20	5700	Ant1	10.96	0.12	11.08	24	Pass
NVNT	n40	5510	Ant1	10.05	0.24	10.29	24	Pass
NVNT	n40	5550	Ant1	10.36	0.23	10.59	24	Pass
NVNT	n40	5670	Ant1	10.62	0.24	10.86	24	Pass



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F.3 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	1.57	0.24	1.81	11	Pass
NVNT	a	5580	Ant1	1.78	0.24	2.02	11	Pass
NVNT	a	5700	Ant1	1.99	0.24	2.23	11	Pass
NVNT	n20	5500	Ant1	0.15	0.12	0.27	11	Pass
NVNT	n20	5580	Ant1	0.83	0.12	0.95	11	Pass
NVNT	n20	5700	Ant1	0.23	0.12	0.35	11	Pass
NVNT	n40	5510	Ant1	-3.63	0.24	-3.39	11	Pass
NVNT	n40	5550	Ant1	-3.61	0.23	-3.38	11	Pass
NVNT	n40	5670	Ant1	-3.33	0.24	-3.09	11	Pass

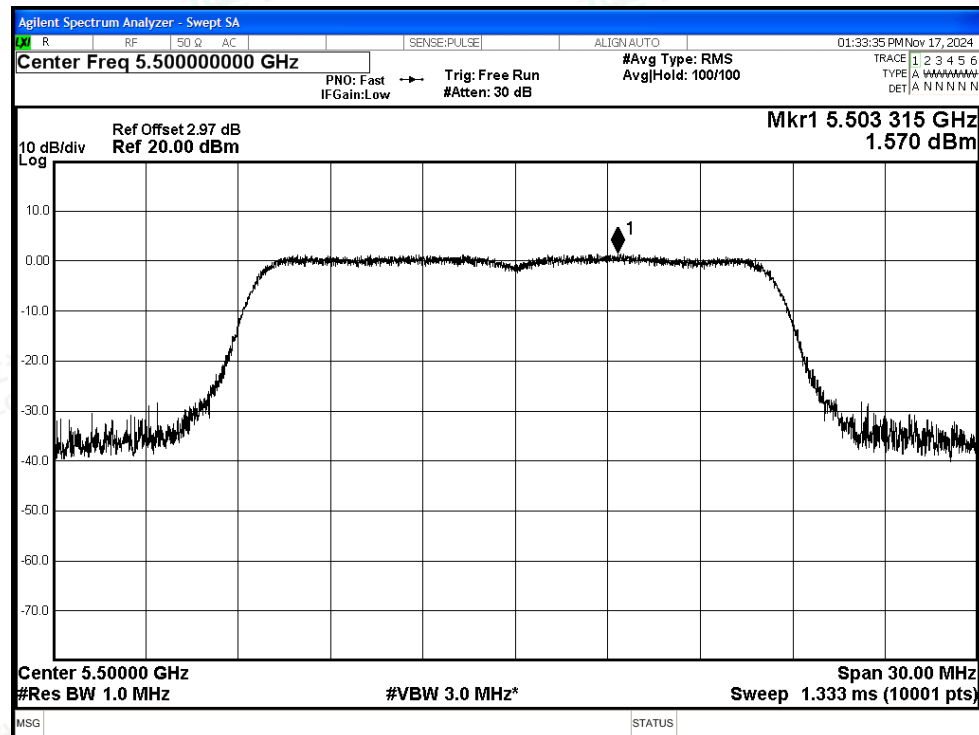


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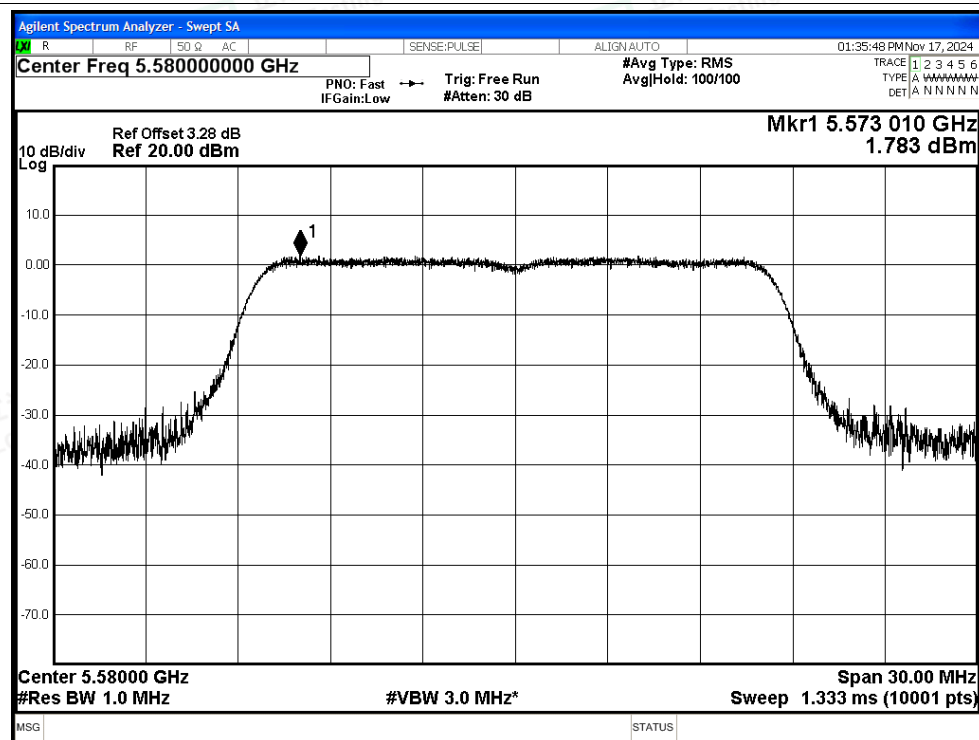


Test Graphs

PSD NVNT a 5500MHz Ant1

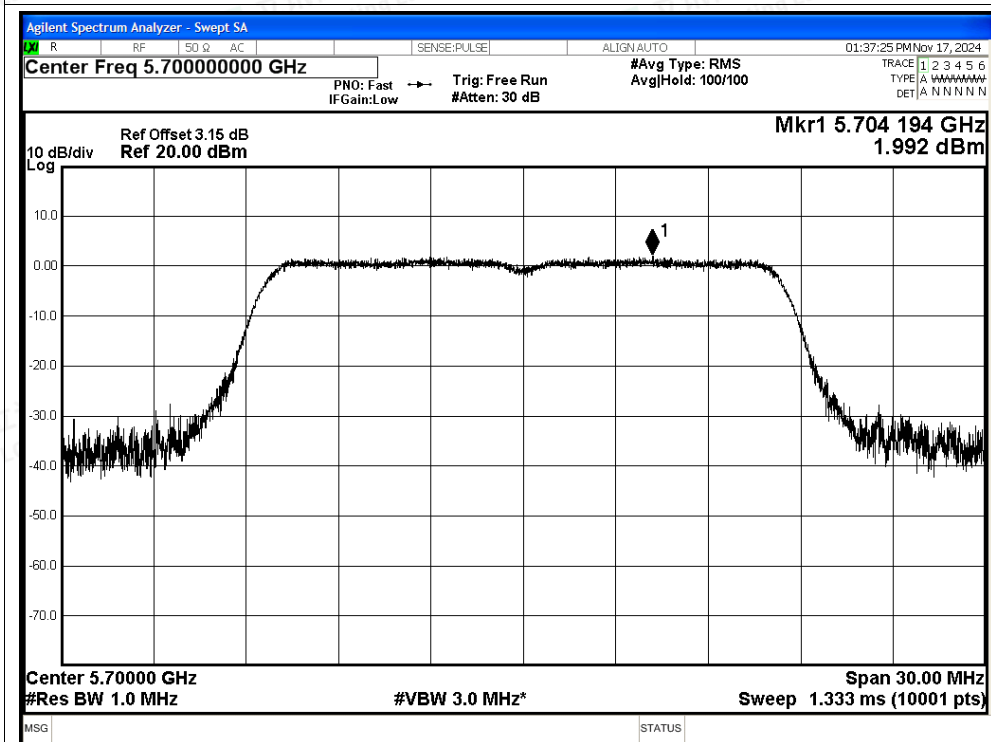


PSD NVNT a 5580MHz Ant1

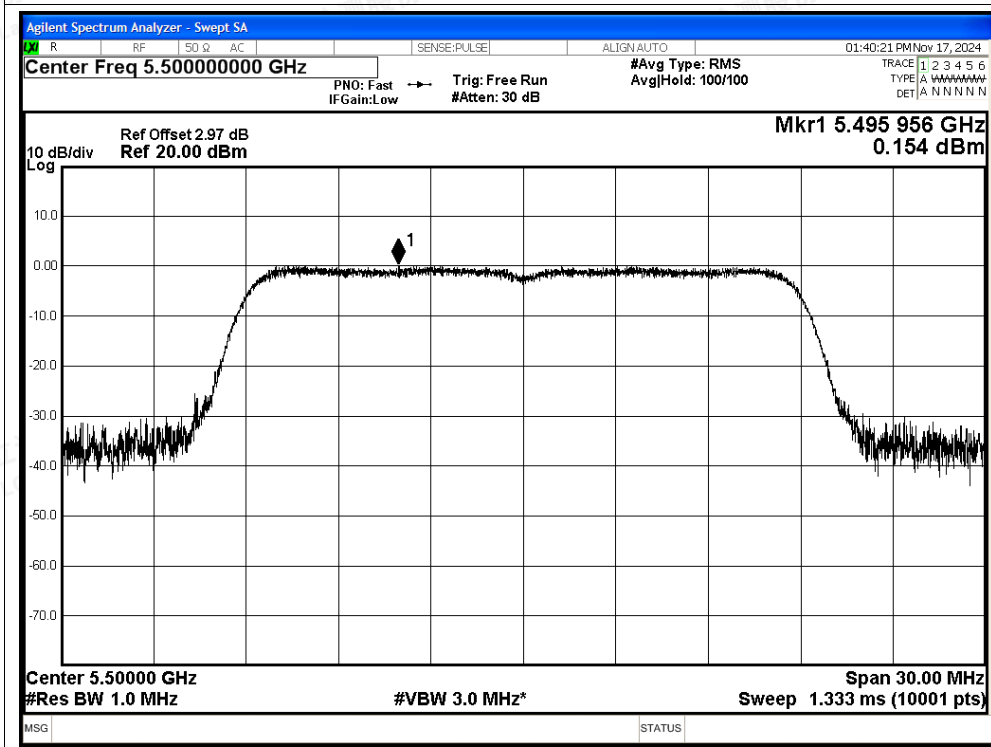


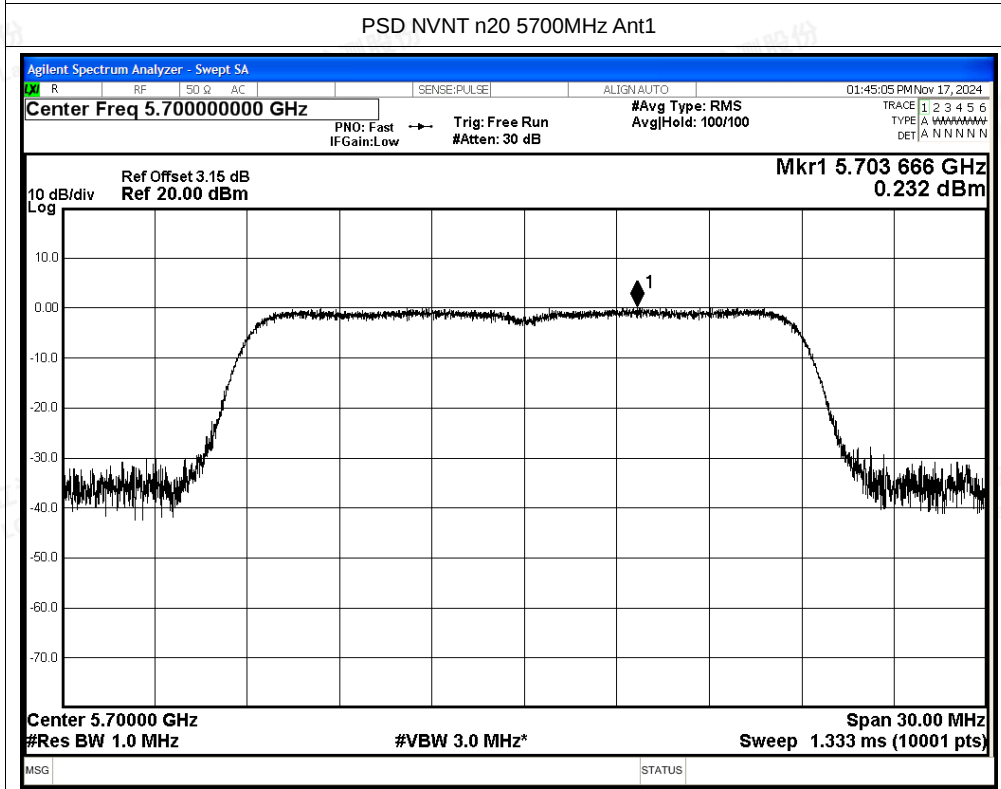
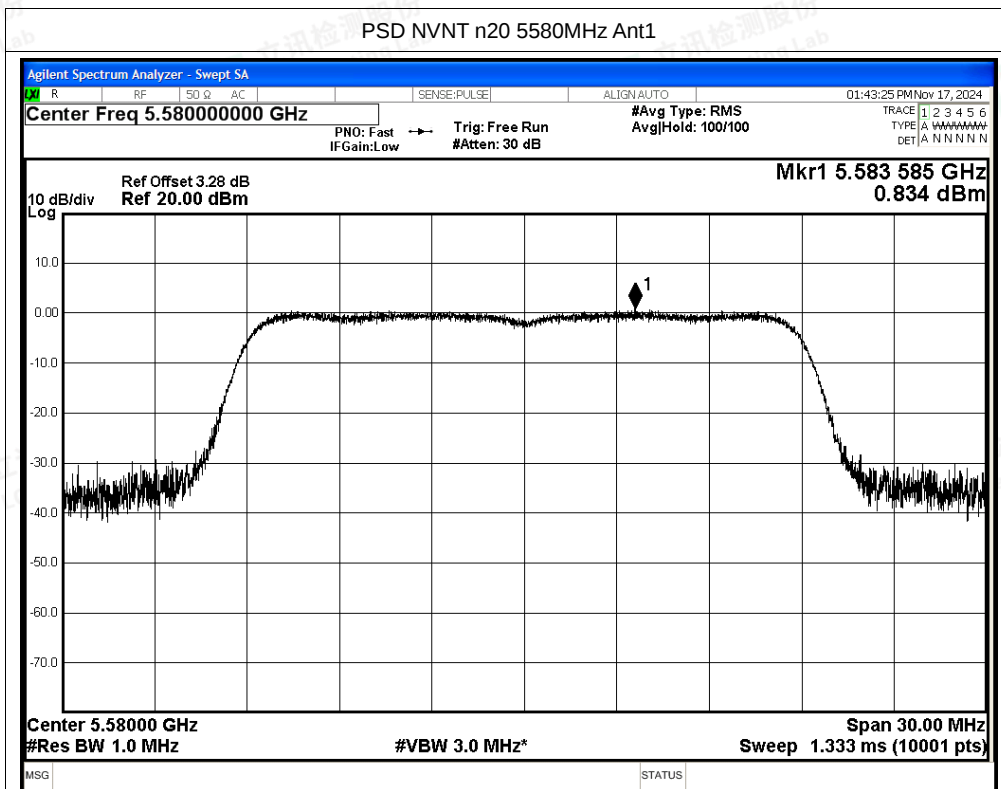


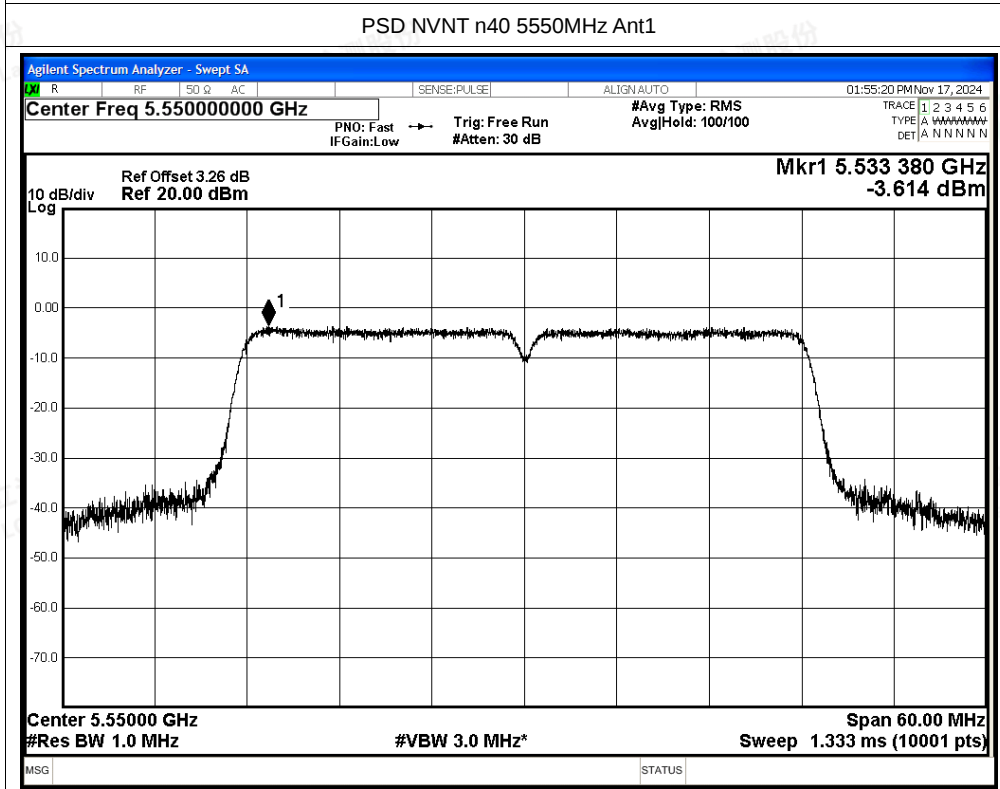
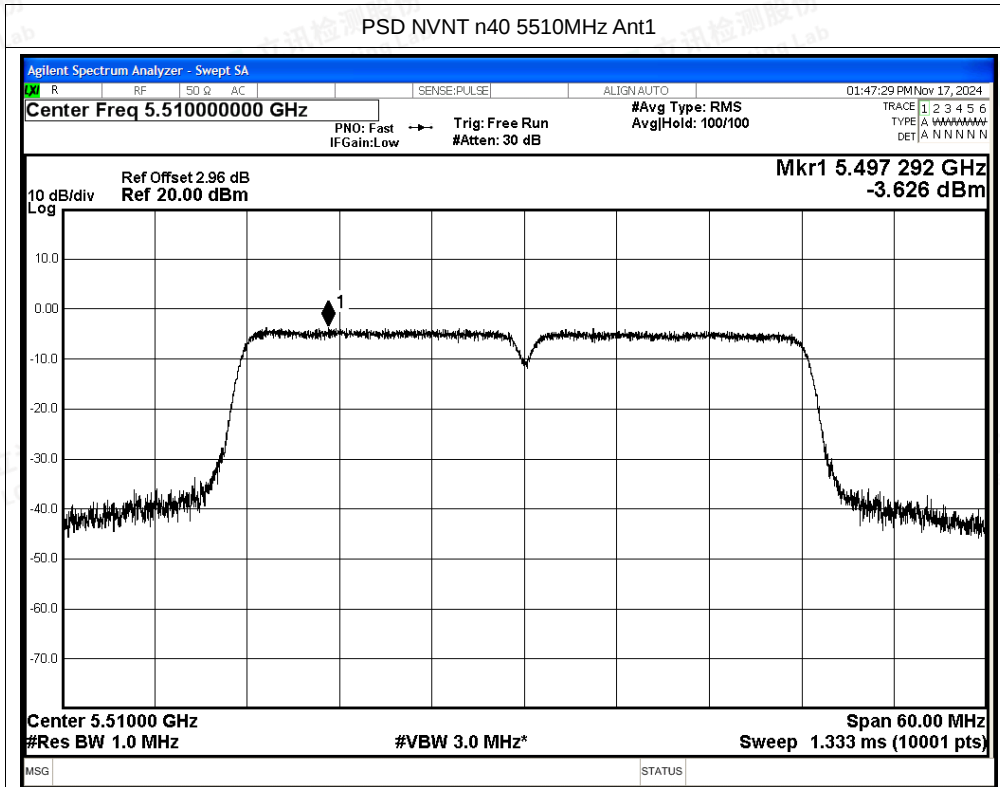
PSD NVNT a 5700MHz Ant1

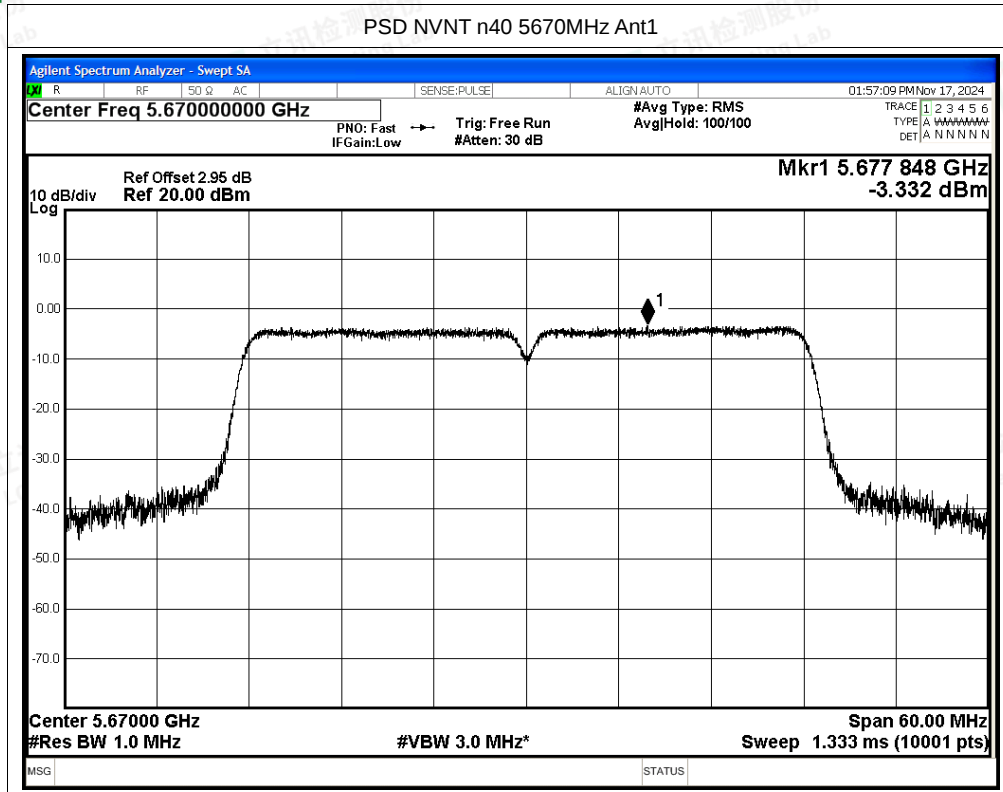


PSD NVNT n20 5500MHz Ant1











F.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-49.56	5.8	-	-43.76	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-57.83	5.8	0.24	-52.03	Average	54	Pass
NVNT	a	5500	Ant1	5468.8	-44.24	5.8	-	-38.44	Peak	68.2	Pass
NVNT	a	5500	Ant1	5469.8	-56.65	5.8	0.24	-50.85	Average	54	Pass
NVNT	a	5500	Ant1	5470	-46.72	5.8	-	-40.92	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-57.05	5.8	0.24	-51.25	Average	54	Pass
NVNT	a	5700	Ant1	5725	-44.05	5.8	-	-38.25	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-55.76	5.8	0.24	-49.96	Average	54	Pass
NVNT	a	5700	Ant1	5725.2	-39.23	5.8	-	-33.43	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725.2	-55.61	5.8	0.24	-49.81	Average	54	Pass
NVNT	a	5700	Ant1	5735	-49.67	5.8	-	-43.87	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-57.95	5.8	0.24	-52.15	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-49.77	5.8	-	-43.97	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-57.81	5.8	0.12	-52.01	Average	54	Pass
NVNT	n20	5500	Ant1	5469	-44.36	5.8	-	-38.56	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5467.8	-56.25	5.8	0.12	-50.45	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-47.73	5.8	-	-41.93	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-56.47	5.8	0.12	-50.67	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-39.55	5.8	-	-33.75	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-54.42	5.8	0.12	-48.62	Average	54	Pass
NVNT	n20	5700	Ant1	5725.8	-38.94	5.8	-	-33.14	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725.8	-53.58	5.8	0.12	-47.78	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-50.69	5.8	-	-44.89	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-58.21	5.8	0.12	-52.41	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-48.69	5.8	-	-42.89	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-58.13	5.8	0.24	-52.33	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-39.19	5.8	-	-33.39	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-54.94	5.8	0.24	-49.14	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-49.31	5.8	-	-43.51	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-57.47	5.8	0.24	-51.67	Average	54	Pass
NVNT	n40	5670	Ant1	5732.2	-48.83	5.8	-	-43.03	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-57.47	5.8	0.24	-51.67	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-51.22	5.8	-	-45.42	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-58.19	5.8	0.24	-52.39	Average	54	Pass

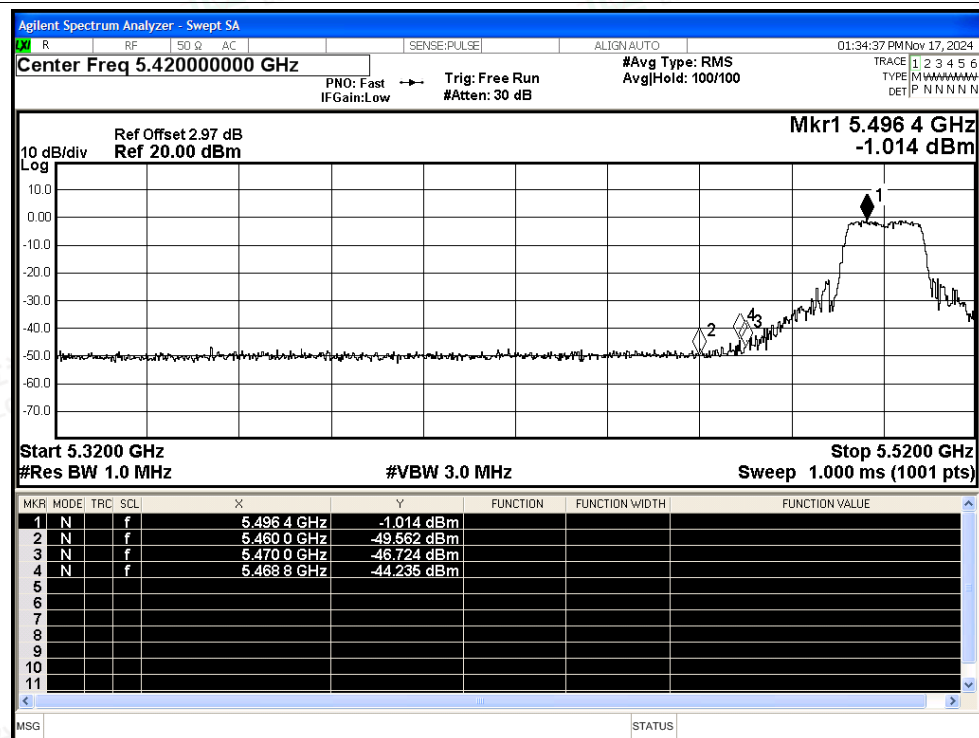


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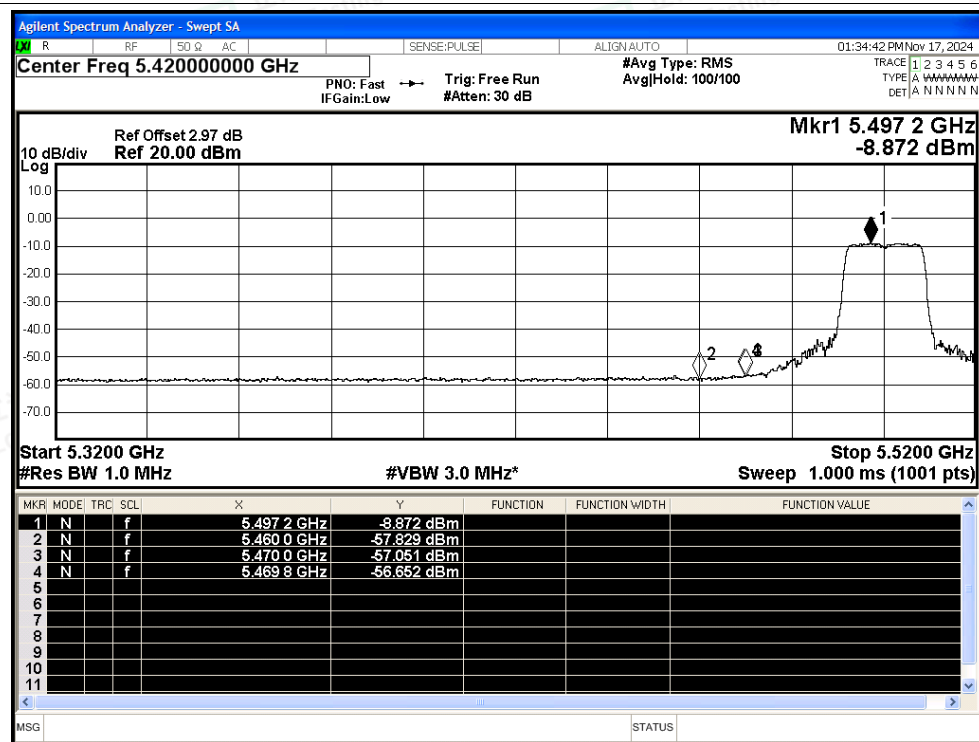


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak



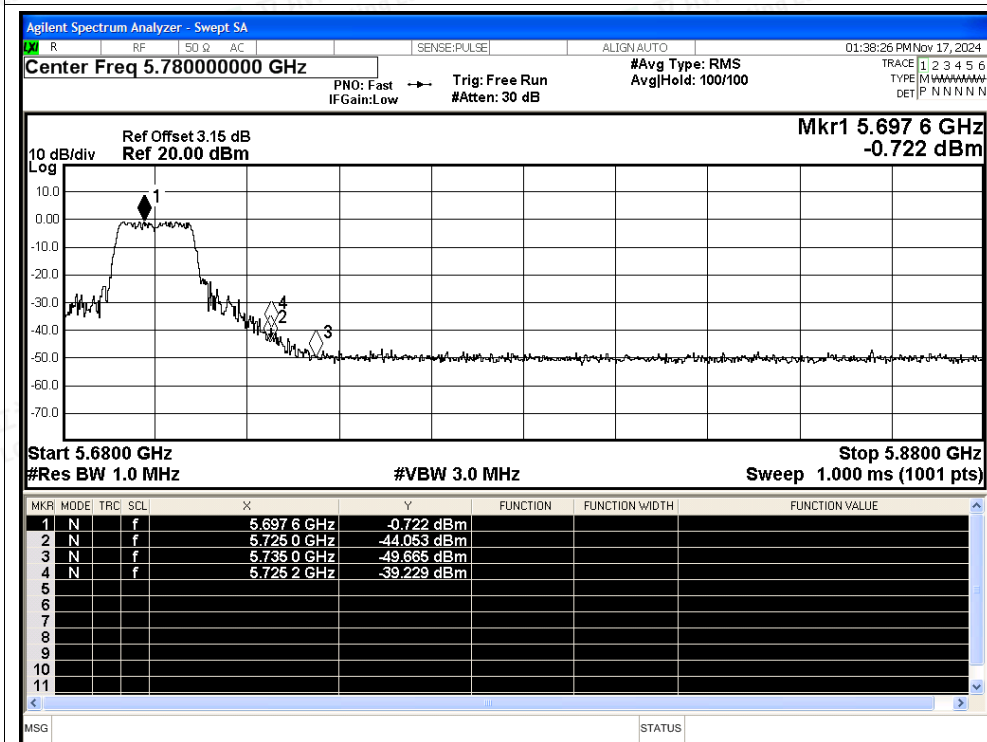
Restrict Band NVNT a 5500MHz Ant1 Average



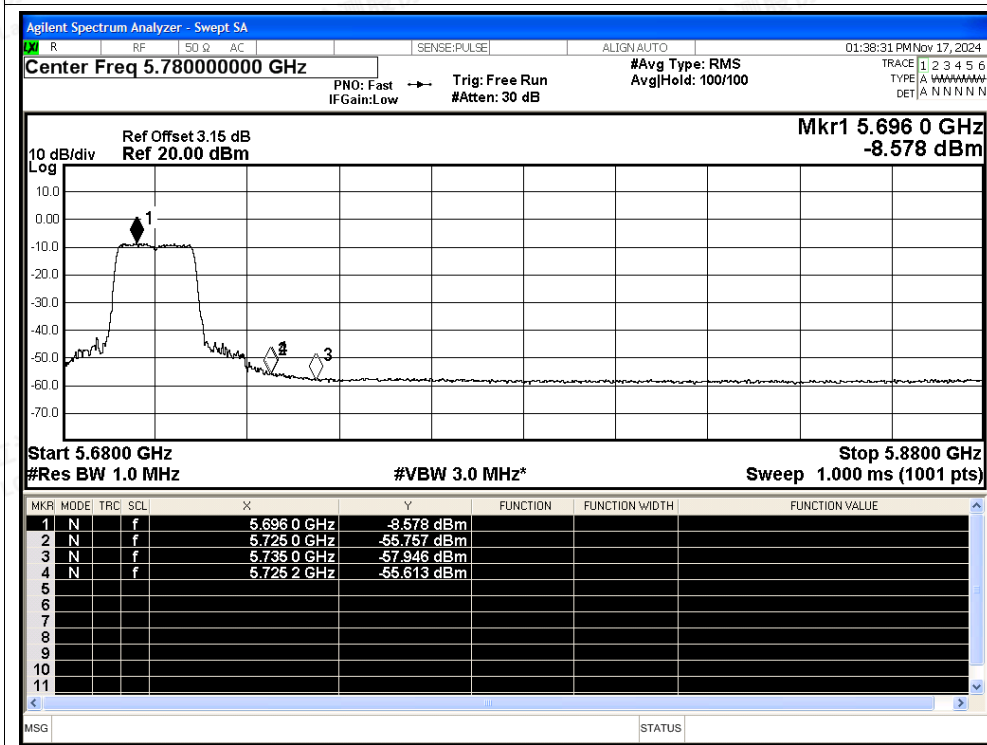
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Restrict Band NVNT a 5700MHz Ant1 Peak

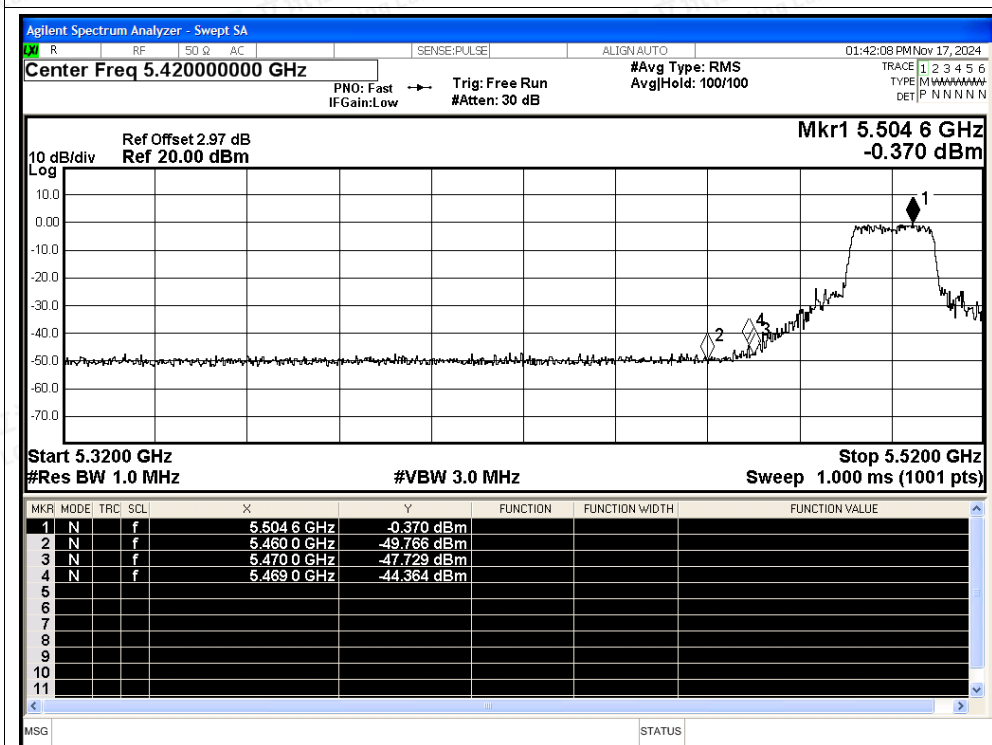


Restrict Band NVNT a 5700MHz Ant1 Average

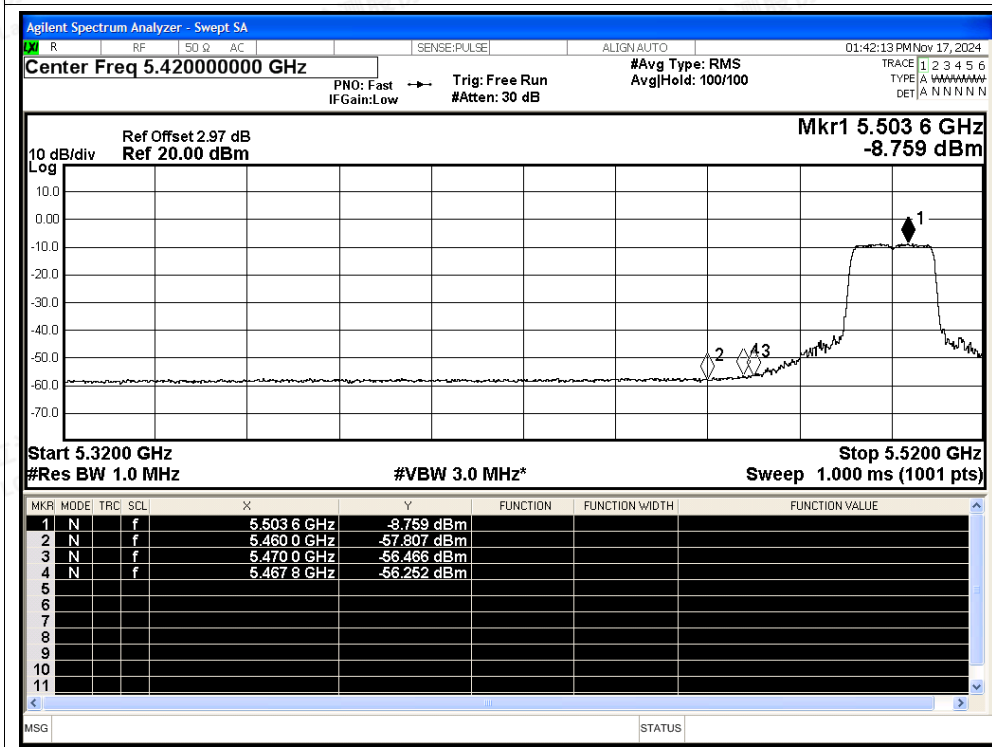




Restrict Band NVNT n20 5500MHz Ant1 Peak

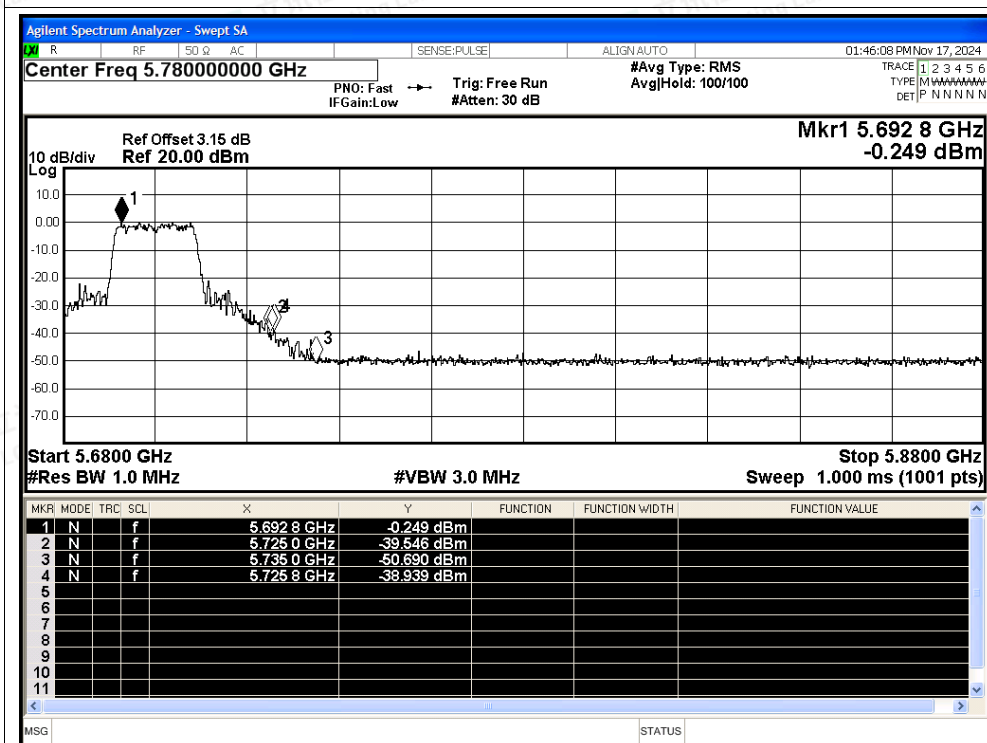


Restrict Band NVNT n20 5500MHz Ant1 Average

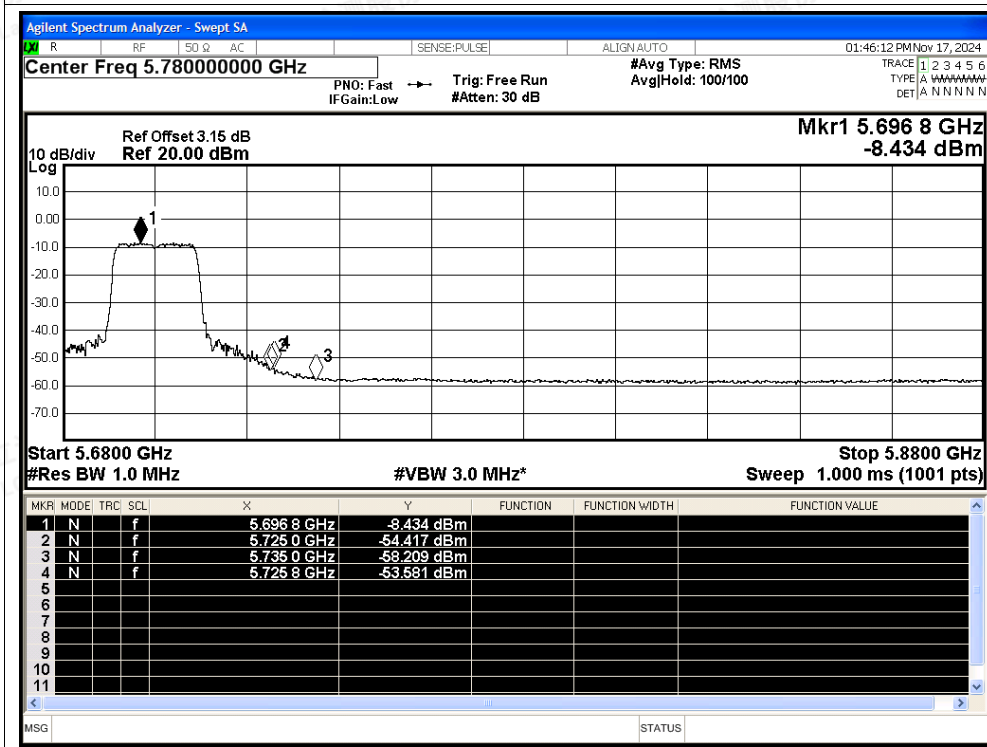




Restrict Band NVNT n20 5700MHz Ant1 Peak

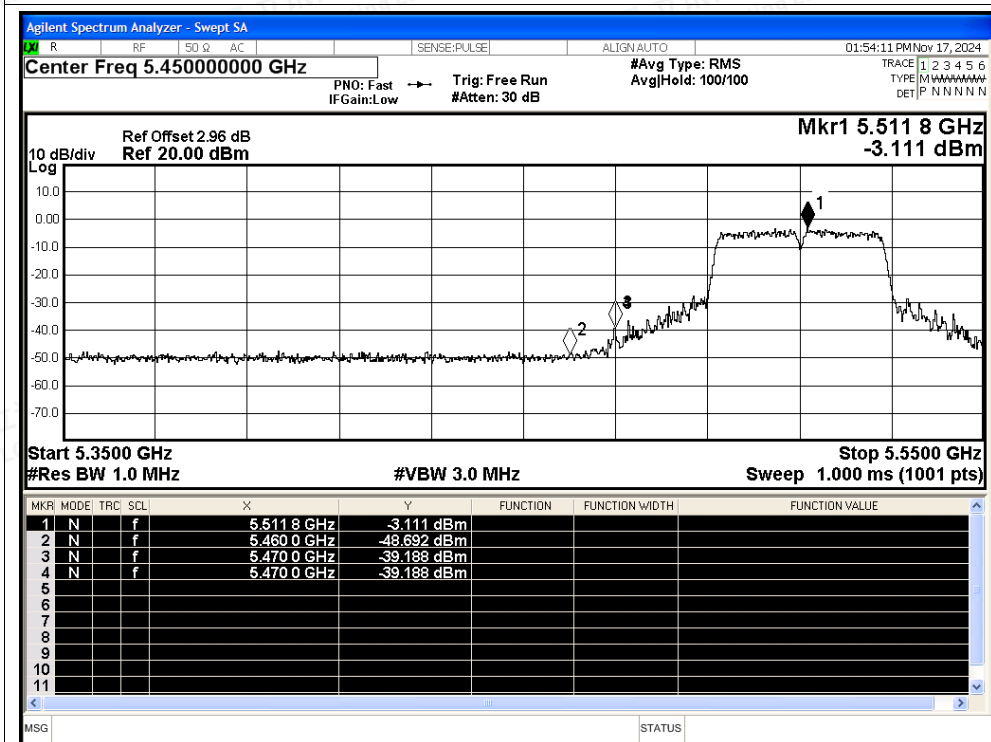


Restrict Band NVNT n20 5700MHz Ant1 Average

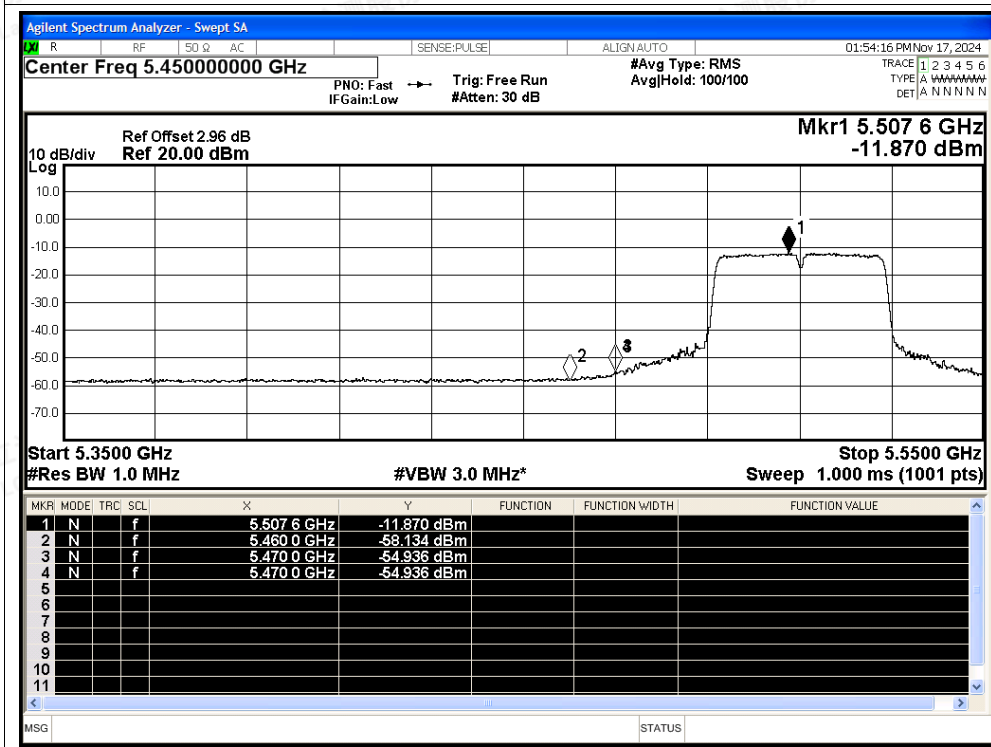




Restrict Band NVNT n40 5510MHz Ant1 Peak

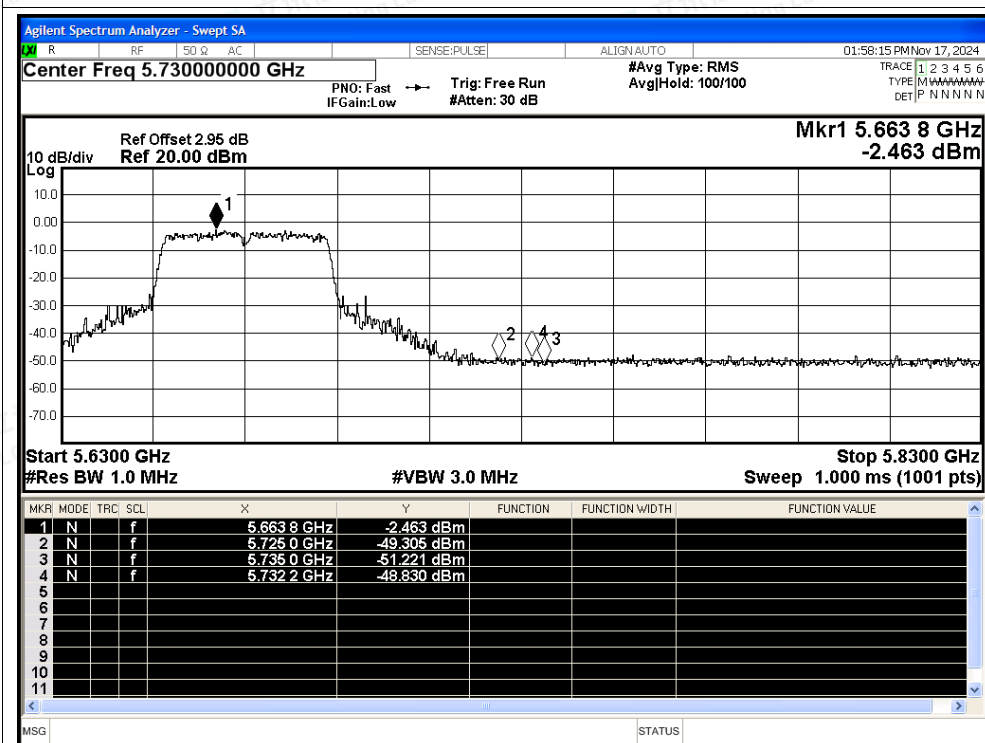


Restrict Band NVNT n40 5510MHz Ant1 Average

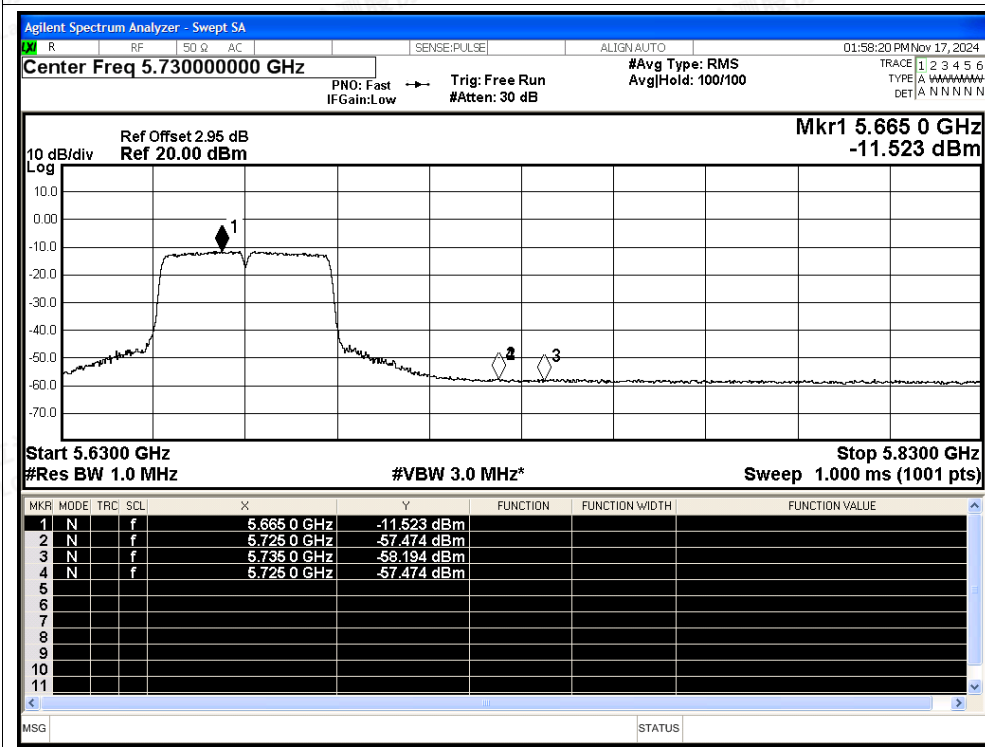




Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average





F.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	a	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	a	5700	Ant1	5700	0	0	25	Pass
NVNT	n20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
NVNT	n20	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	n20	5700	Ant1	5700	0	0	25	Pass
NVNT	n40	5510	Ant1	5510	0	0	25	Pass
NVNT	n40	5550	Ant1	5550	0	0	25	Pass
NVNT	n40	5670	Ant1	5670	0	0	25	Pass

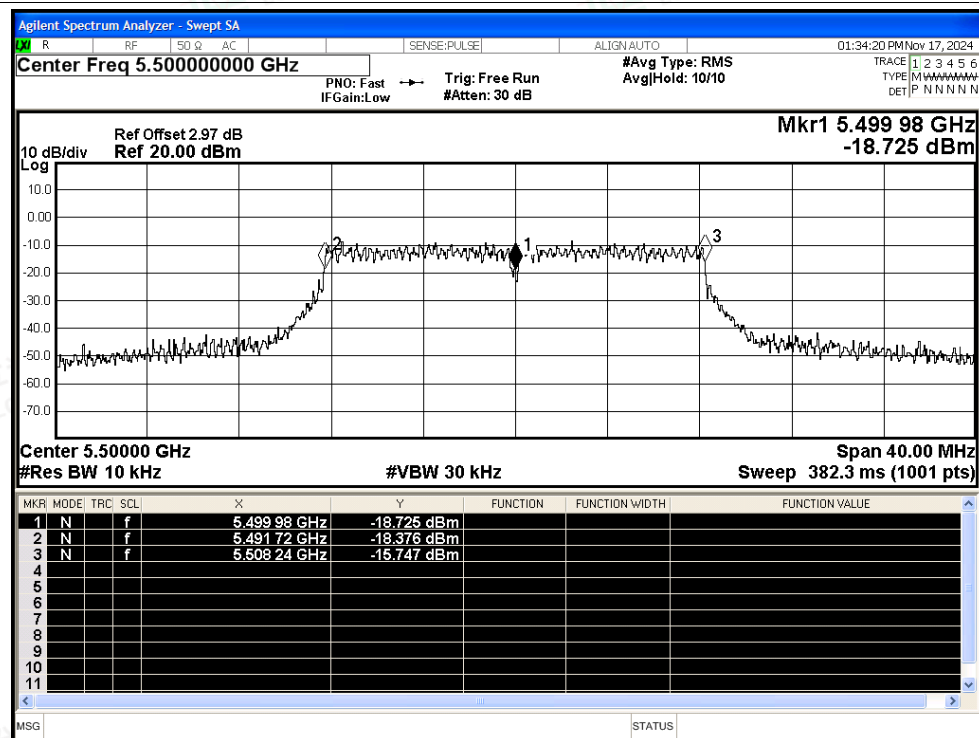


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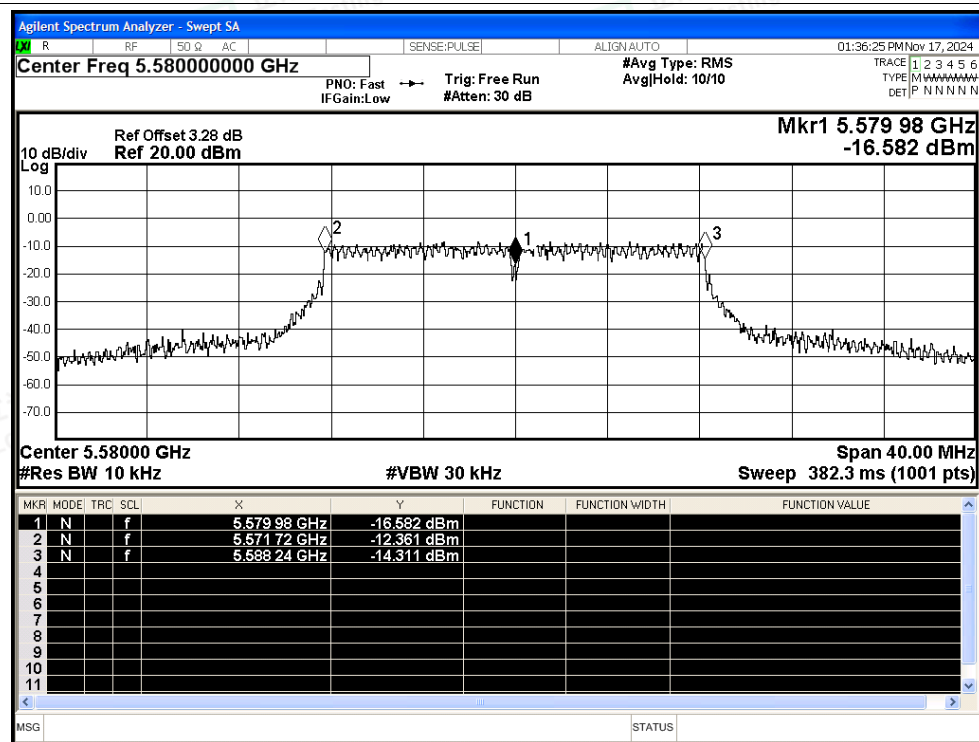


Test Graphs

Freq. Stability NVNT a 5500MHz Ant1



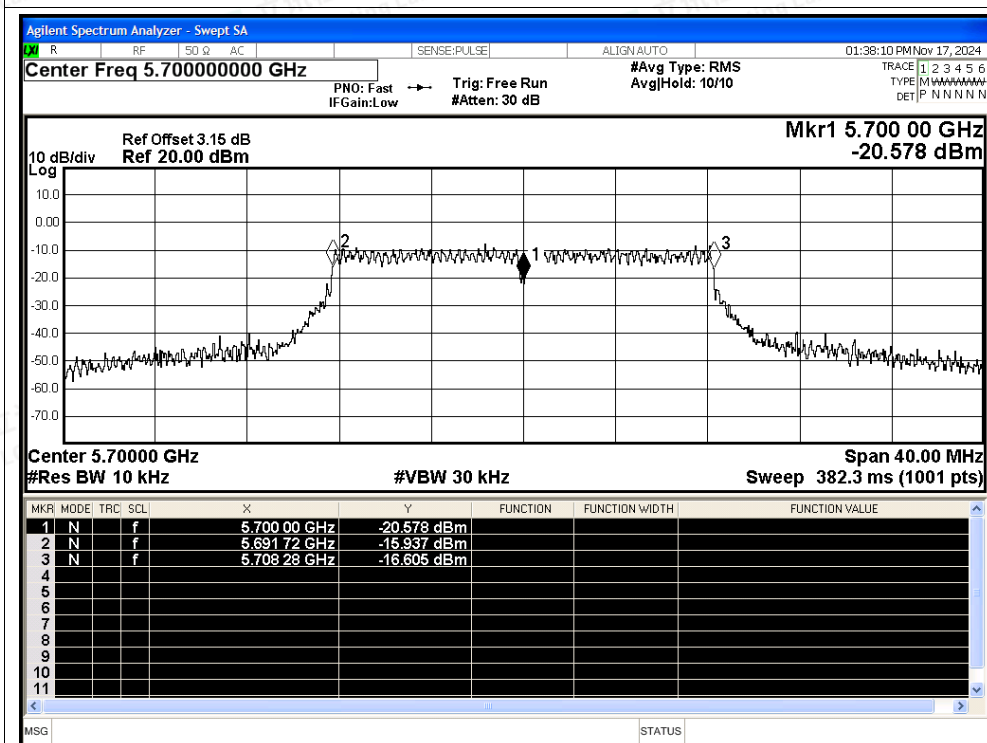
Freq. Stability NVNT a 5580MHz Ant1



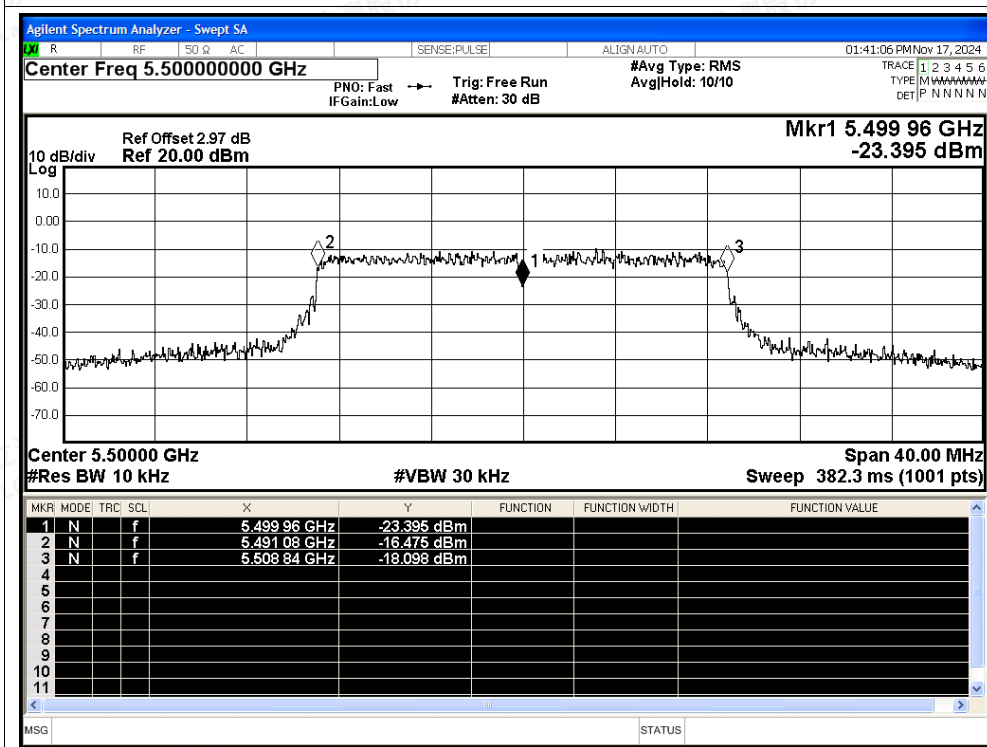
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Freq. Stability NVNT a 5700MHz Ant1

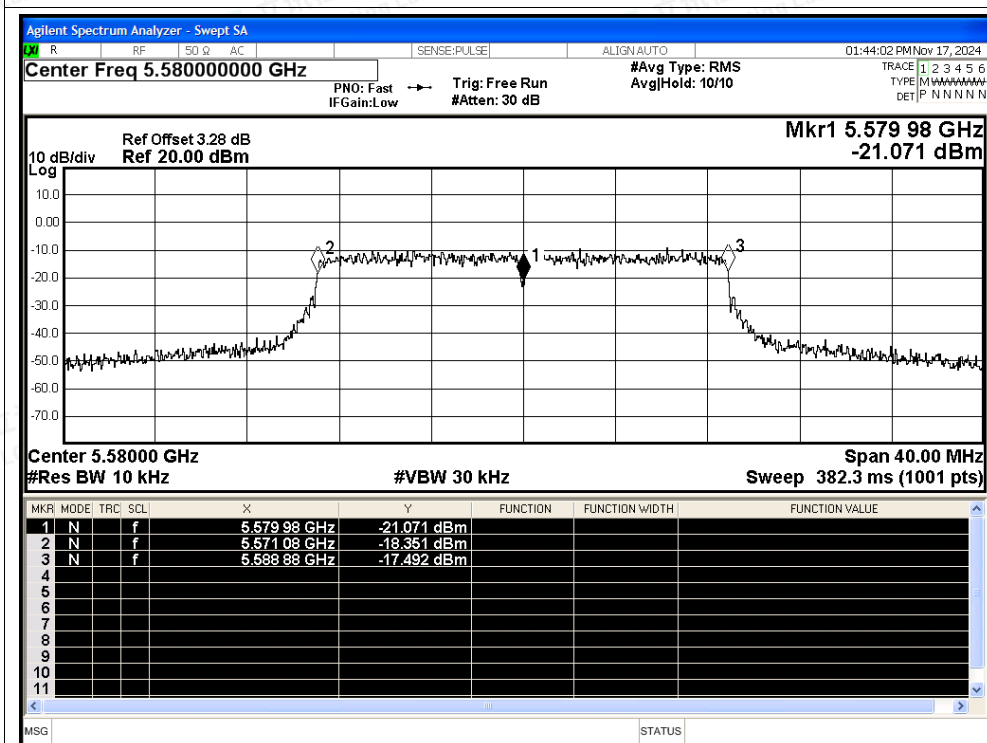


Freq. Stability NVNT n20 5500MHz Ant1

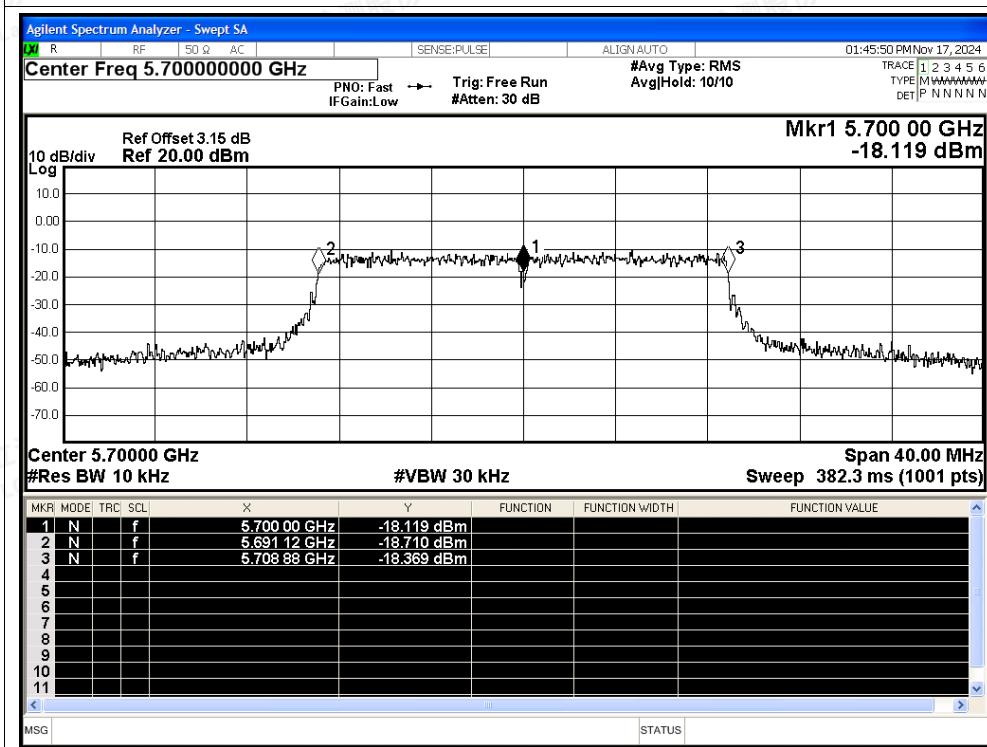




Freq. Stability NVNT n20 5580MHz Ant1

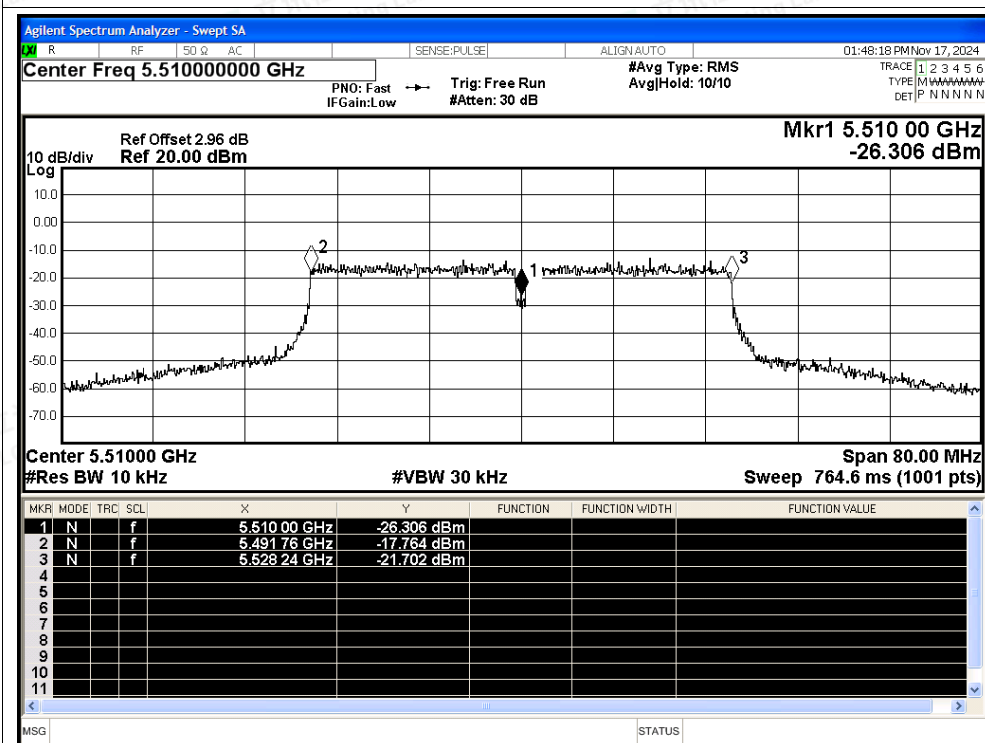


Freq. Stability NVNT n20 5700MHz Ant1

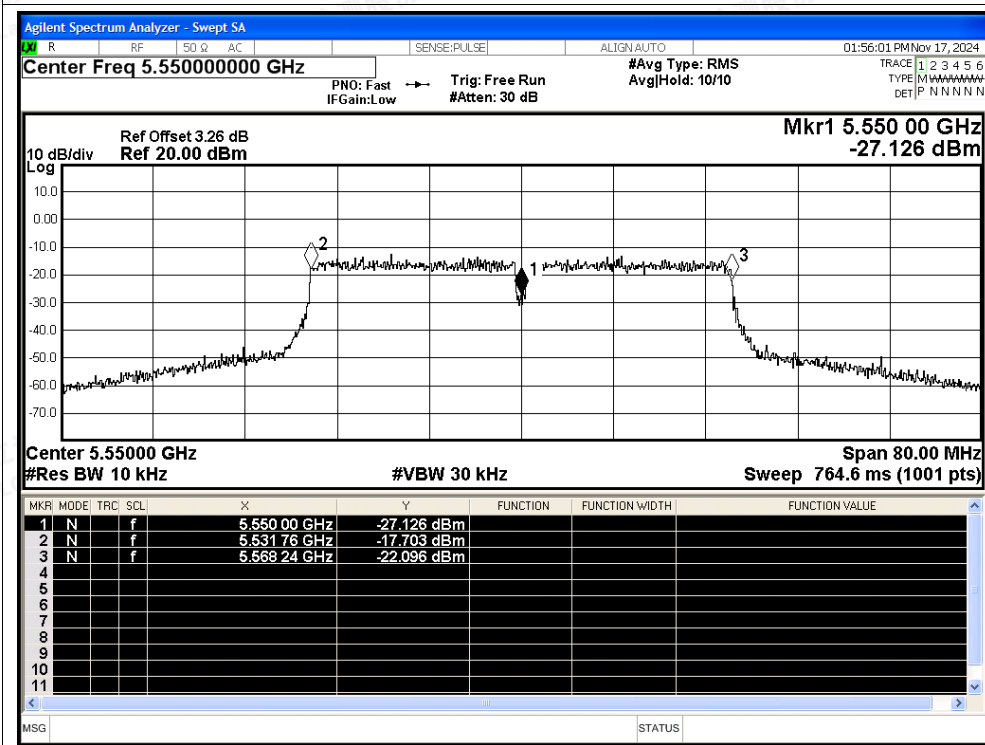


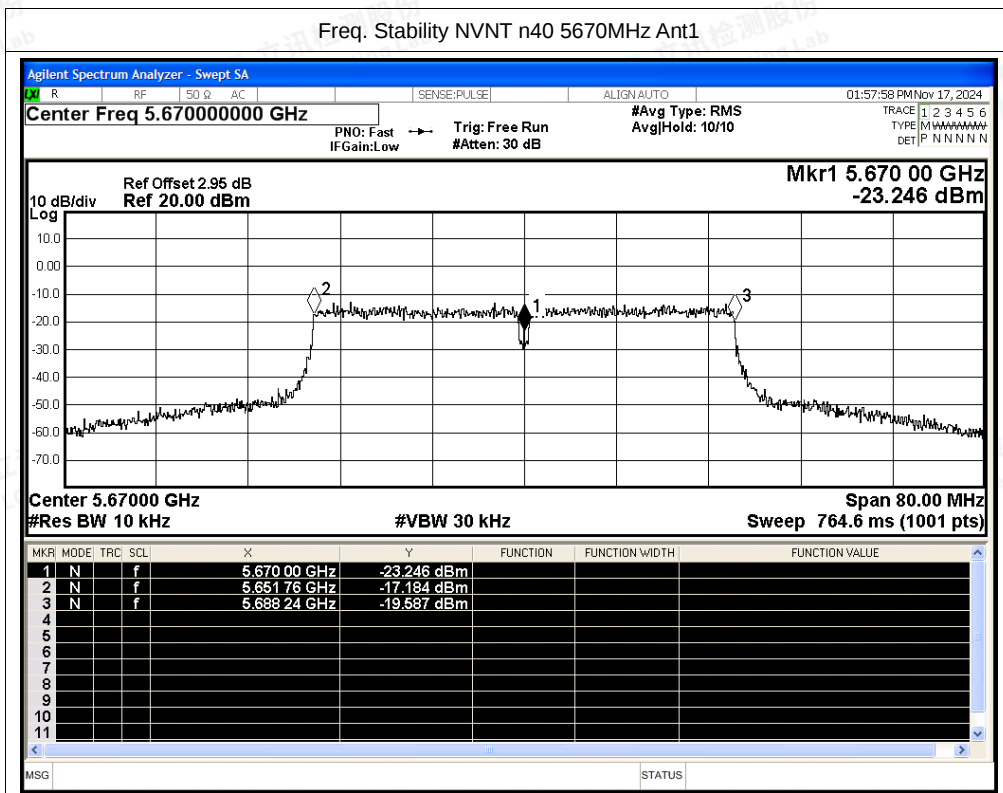


Freq. Stability NVNT n40 5510MHz Ant1



Freq. Stability NVNT n40 5550MHz Ant1







F.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	94.65	0.24	0.91
NVNT	a	5580	Ant1	94.56	0.24	0.91
NVNT	a	5700	Ant1	94.65	0.24	0.91
NVNT	n20	5500	Ant1	97.29	0.12	0.44
NVNT	n20	5580	Ant1	97.29	0.12	0.44
NVNT	n20	5700	Ant1	97.29	0.12	0.44
NVNT	n40	5510	Ant1	94.71	0.24	0.9
NVNT	n40	5550	Ant1	94.79	0.23	0.9
NVNT	n40	5670	Ant1	94.71	0.24	0.9

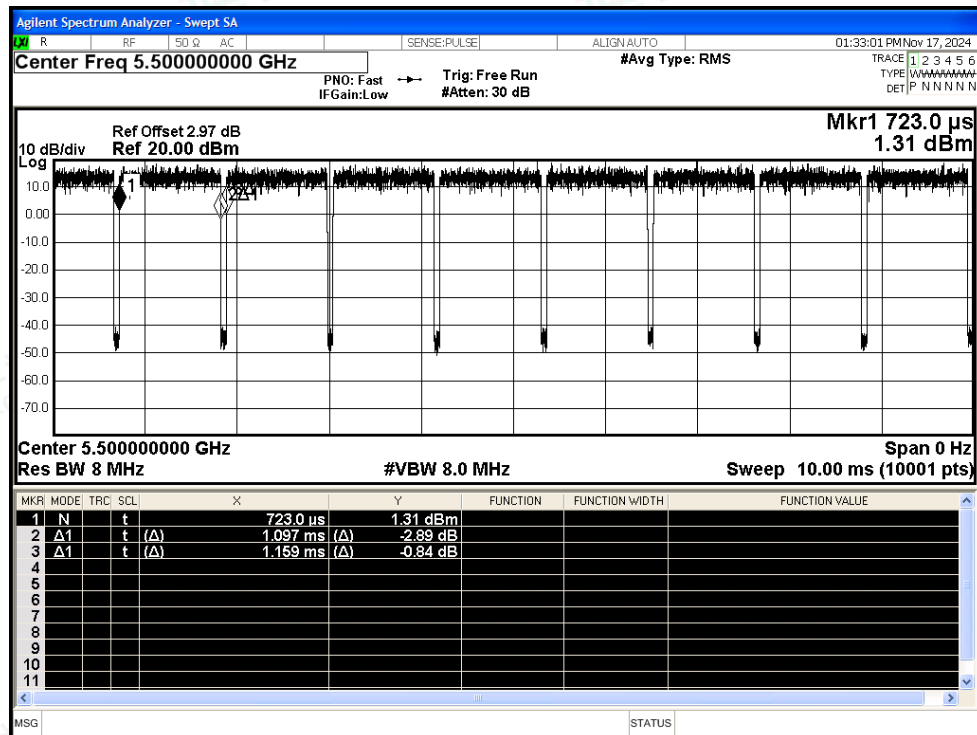


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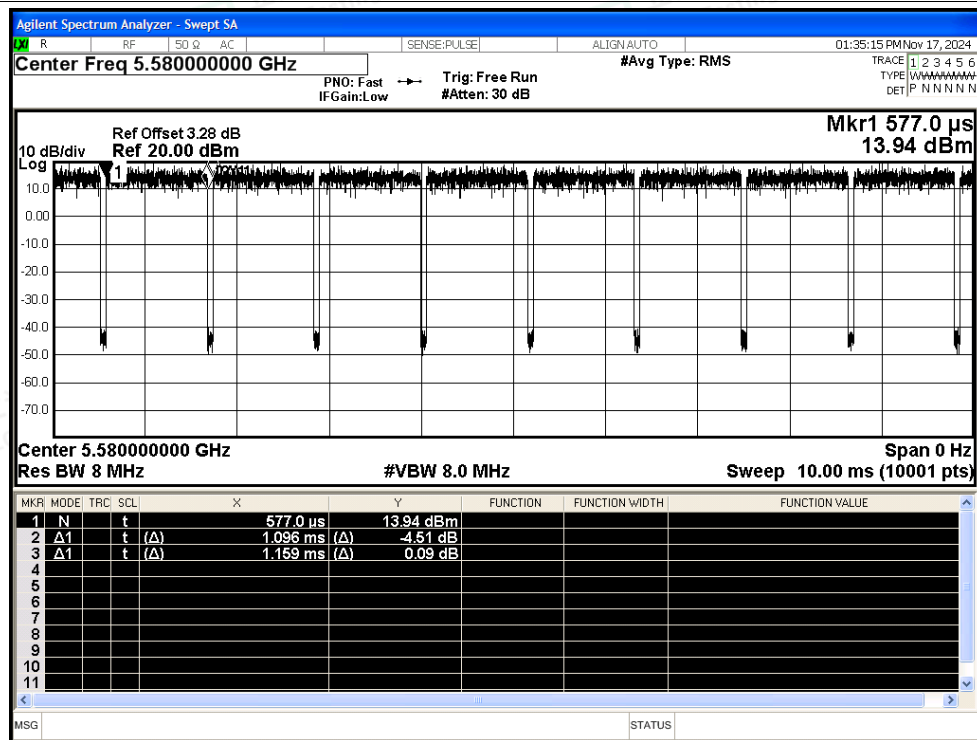


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1

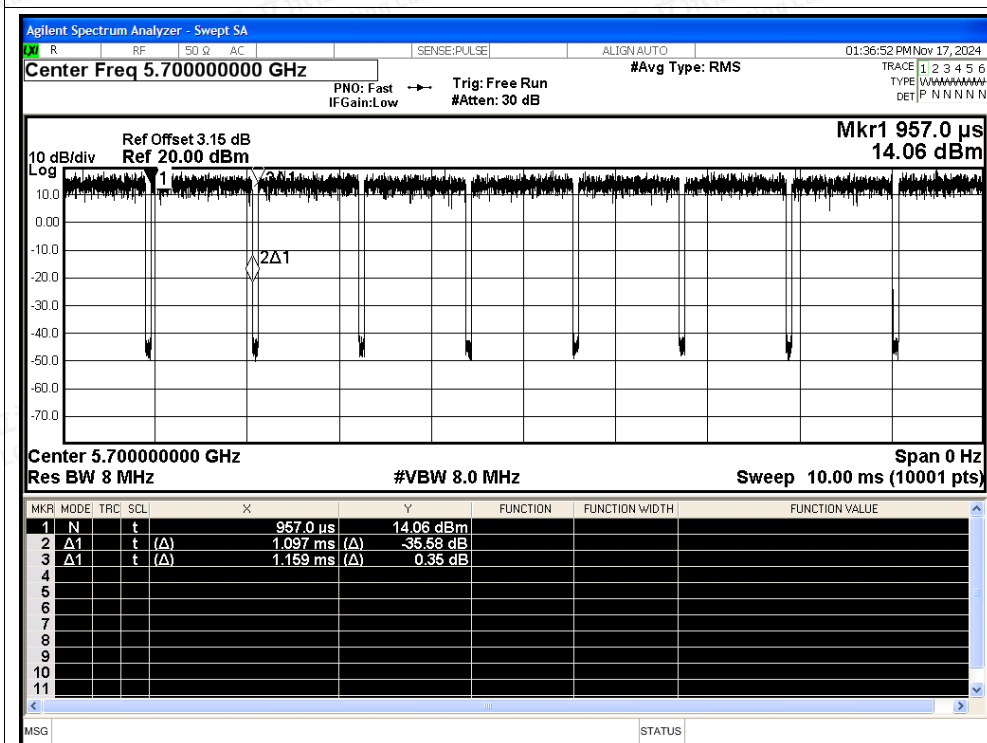


Duty Cycle NVNT a 5580MHz Ant1

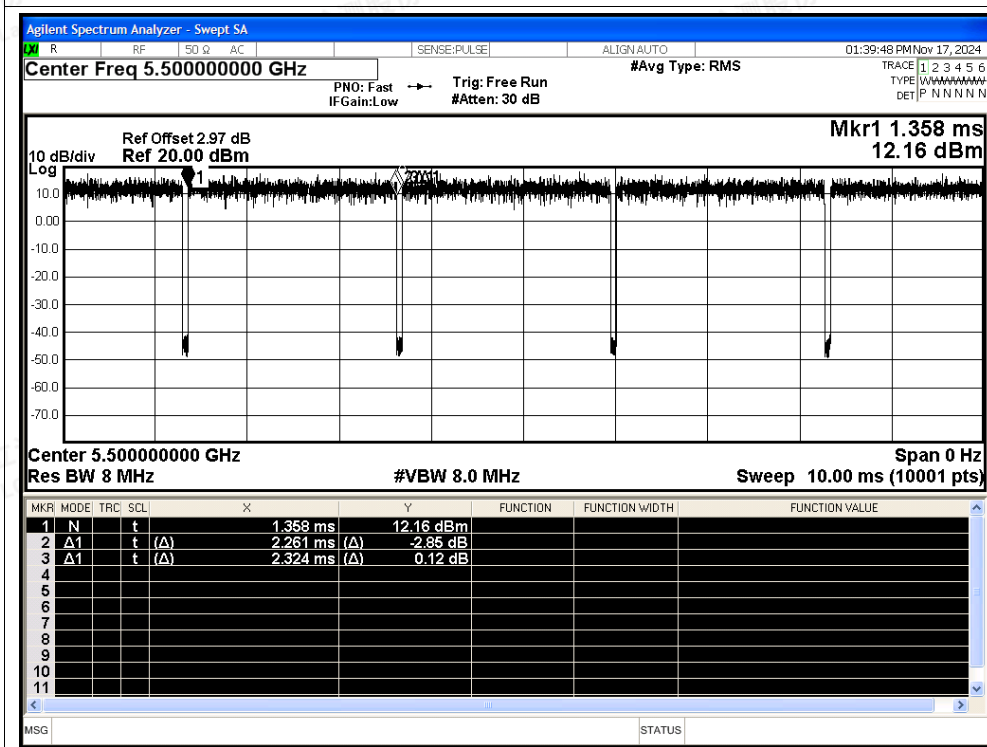




Duty Cycle NVNT a 5700MHz Ant1

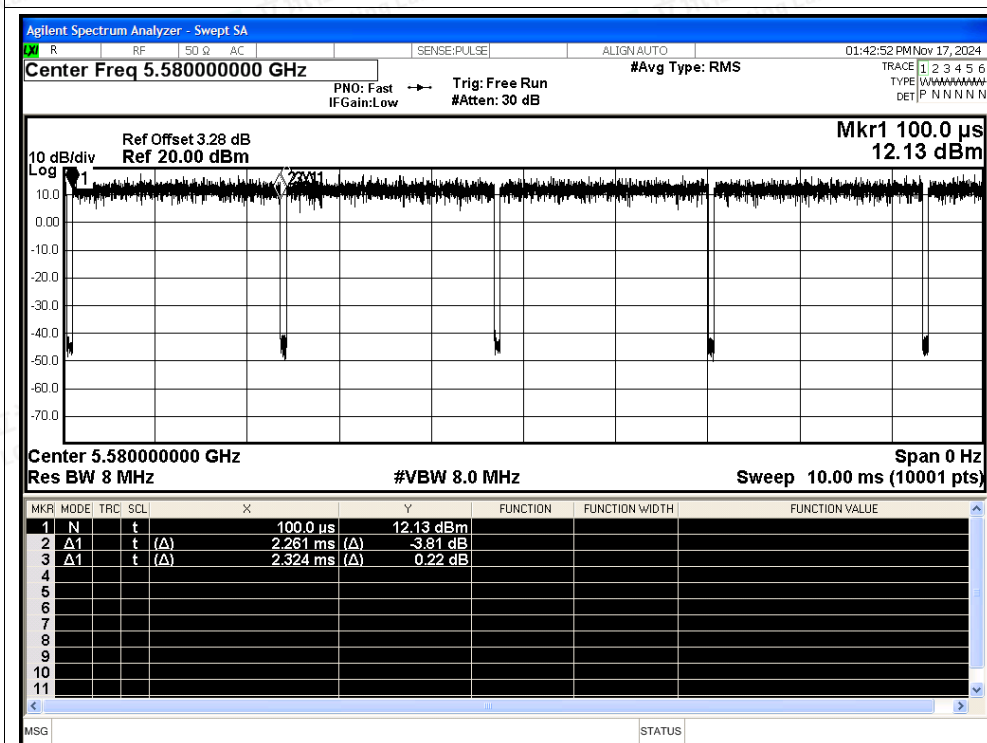


Duty Cycle NVNT n20 5500MHz Ant1

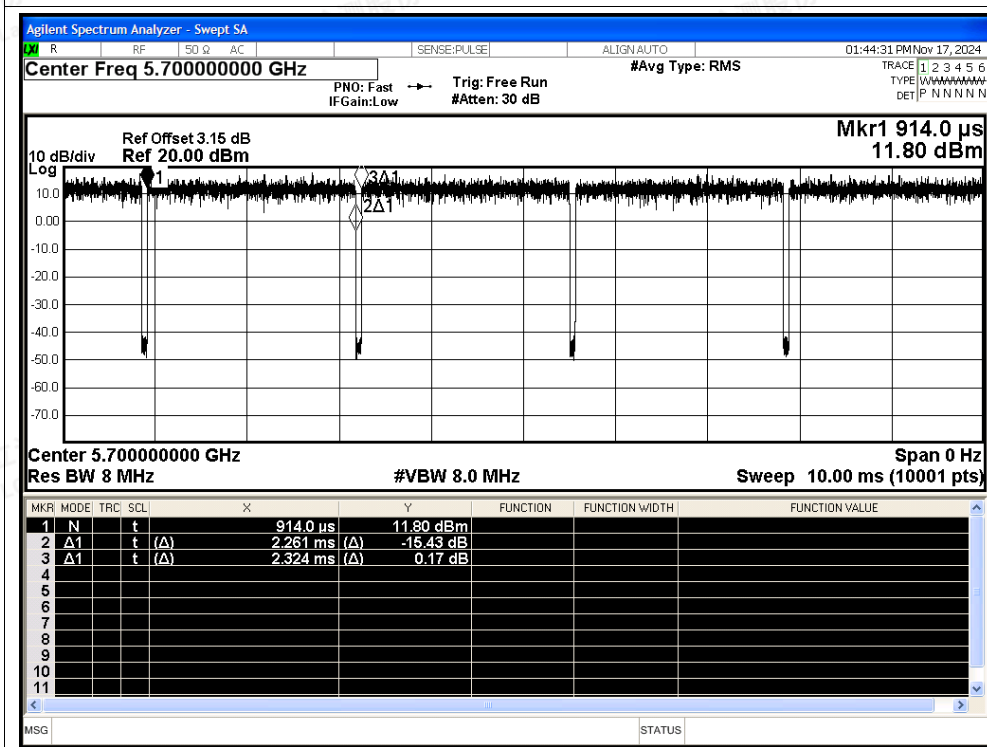




Duty Cycle NVNT n20 5580MHz Ant1

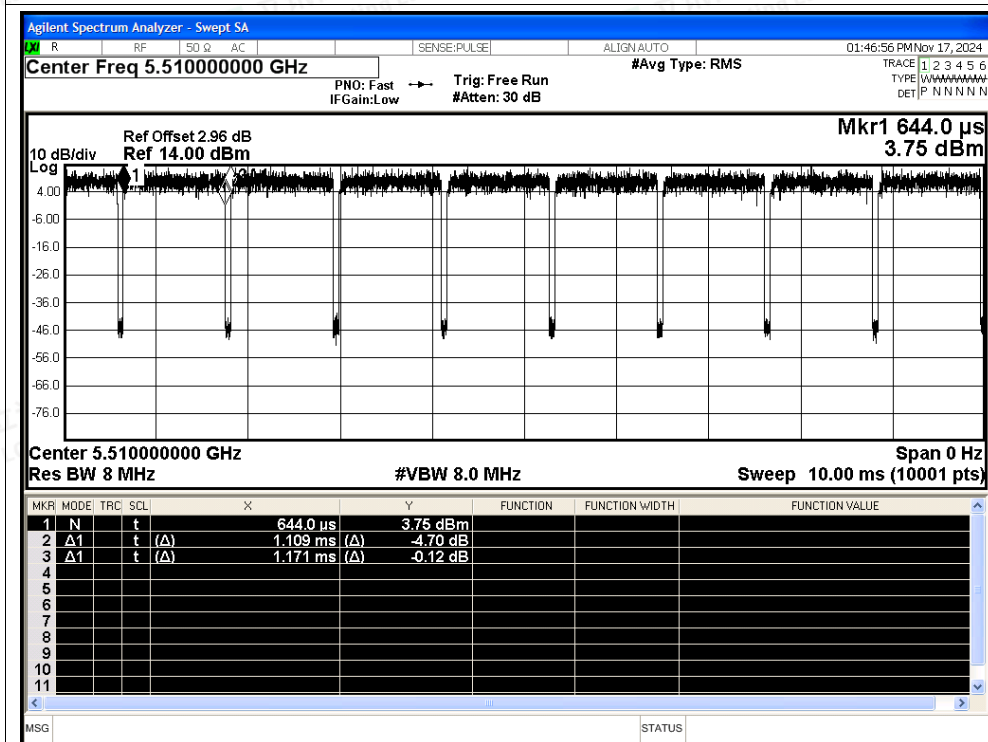


Duty Cycle NVNT n20 5700MHz Ant1





Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5550MHz Ant1

