

FCC Appendix RF Test Data for 5.5GWIFI

Product Name: AI camera

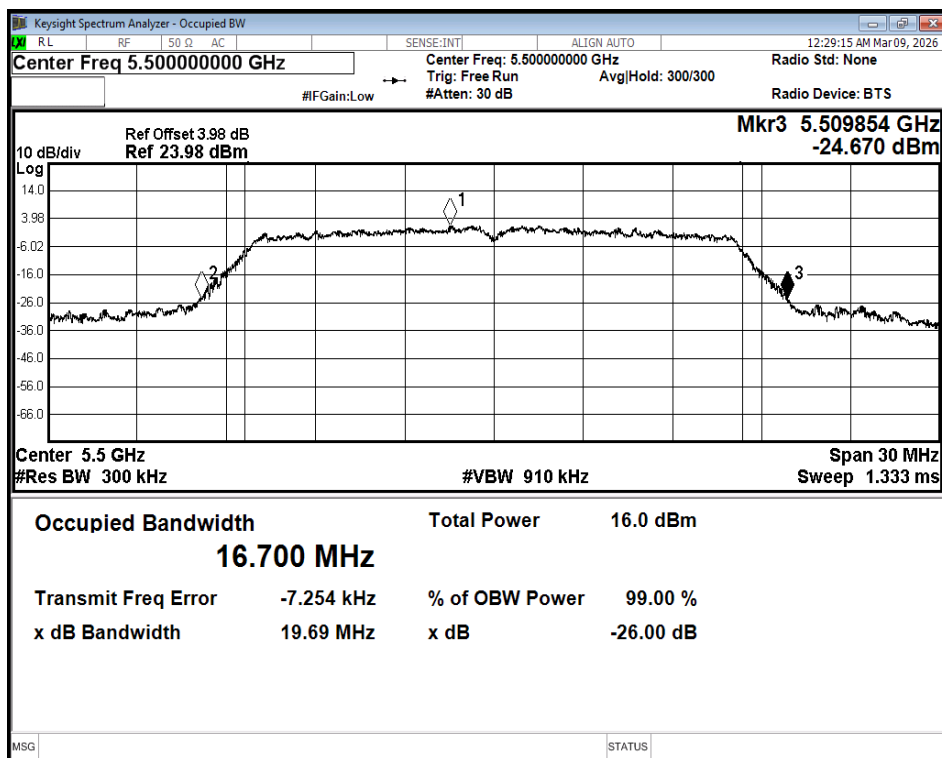
Test Model: K7 max, K8 max

Environmental Conditions

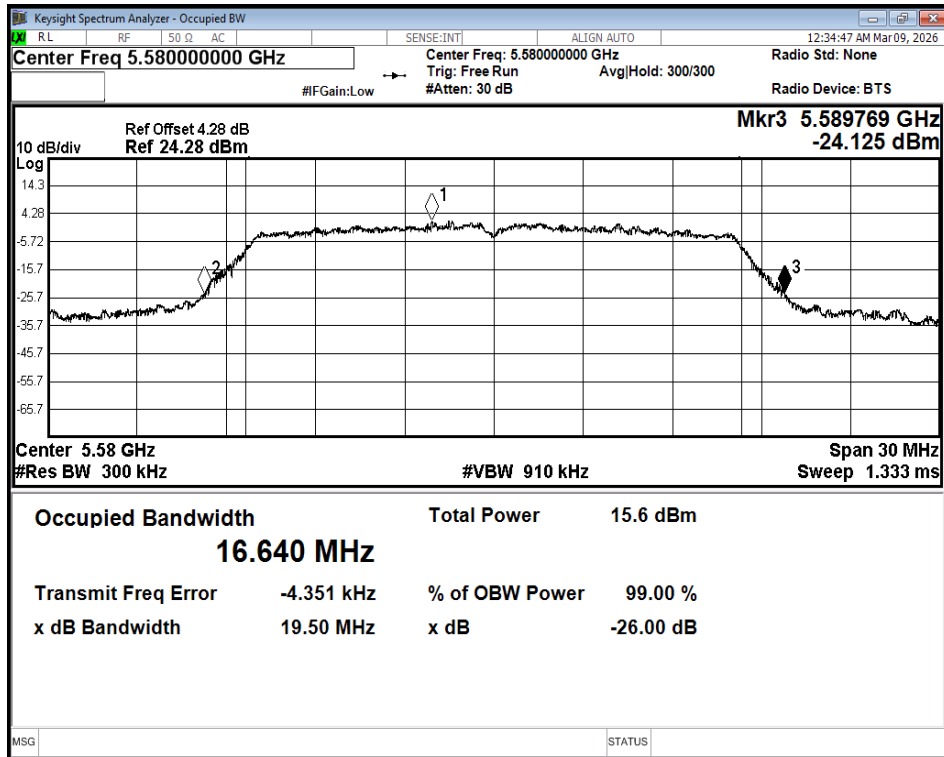
Temperature:	23.4°C
Relative Humidity:	54.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -26dB Bandwidth

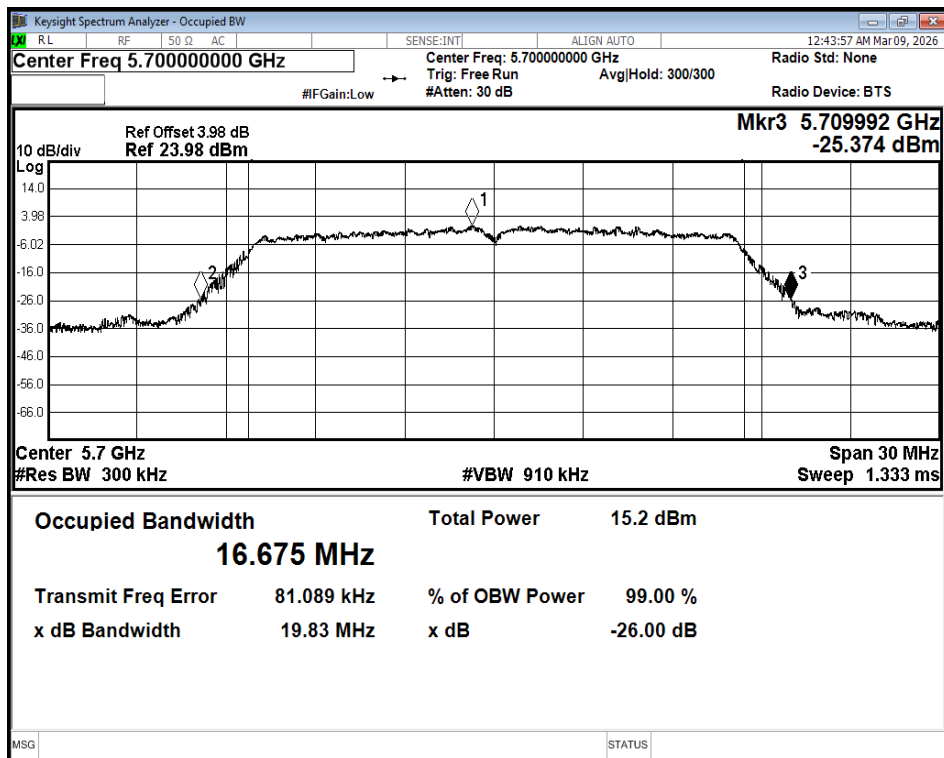
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	19.69
NVNT	a	5580	Ant1	19.5
NVNT	a	5700	Ant1	19.83
NVNT	n20	5500	Ant1	19.93
NVNT	n20	5580	Ant1	19.86
NVNT	n20	5700	Ant1	19.77
NVNT	n40	5510	Ant1	40.31
NVNT	n40	5550	Ant1	40.62
NVNT	n40	5670	Ant1	40.11
NVNT	ac20	5500	Ant1	19.95
NVNT	ac20	5580	Ant1	19.9
NVNT	ac20	5700	Ant1	19.8
NVNT	ac40	5510	Ant1	40.53
NVNT	ac40	5550	Ant1	40.48
NVNT	ac40	5670	Ant1	40.09



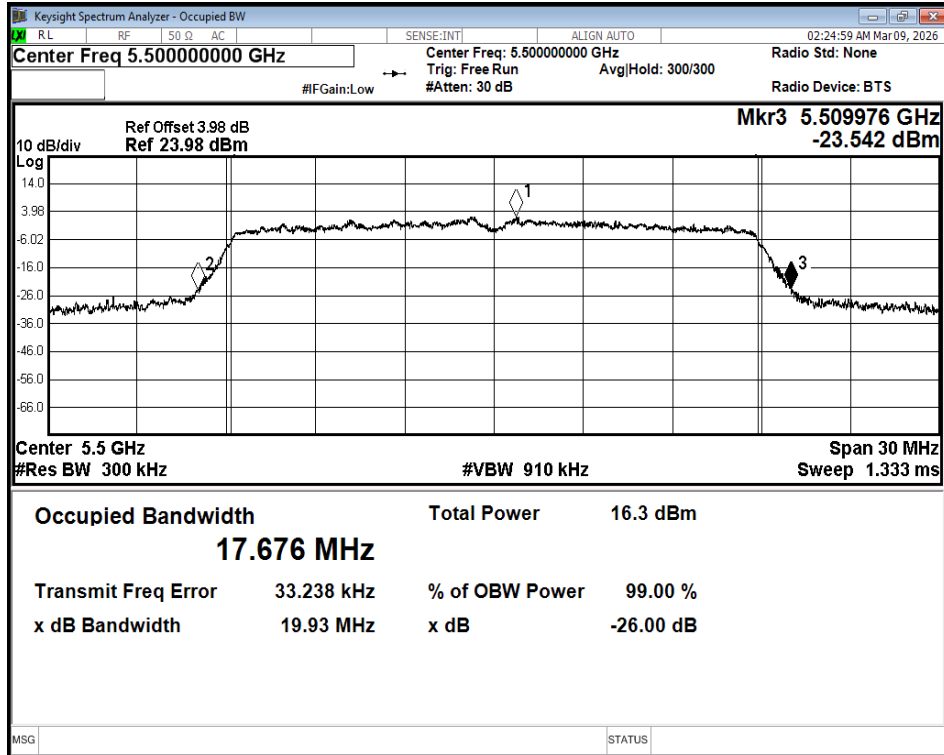
-26dB Bandwidth NVNT a 5500MHz Ant1



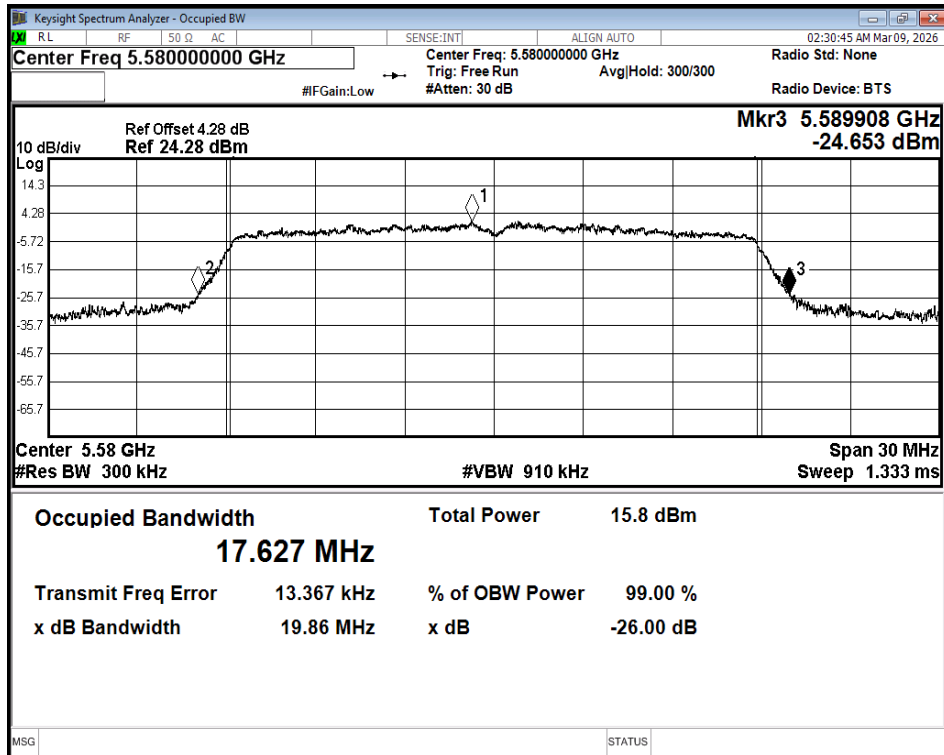
-26dB Bandwidth NVNT a 5580MHz Ant1



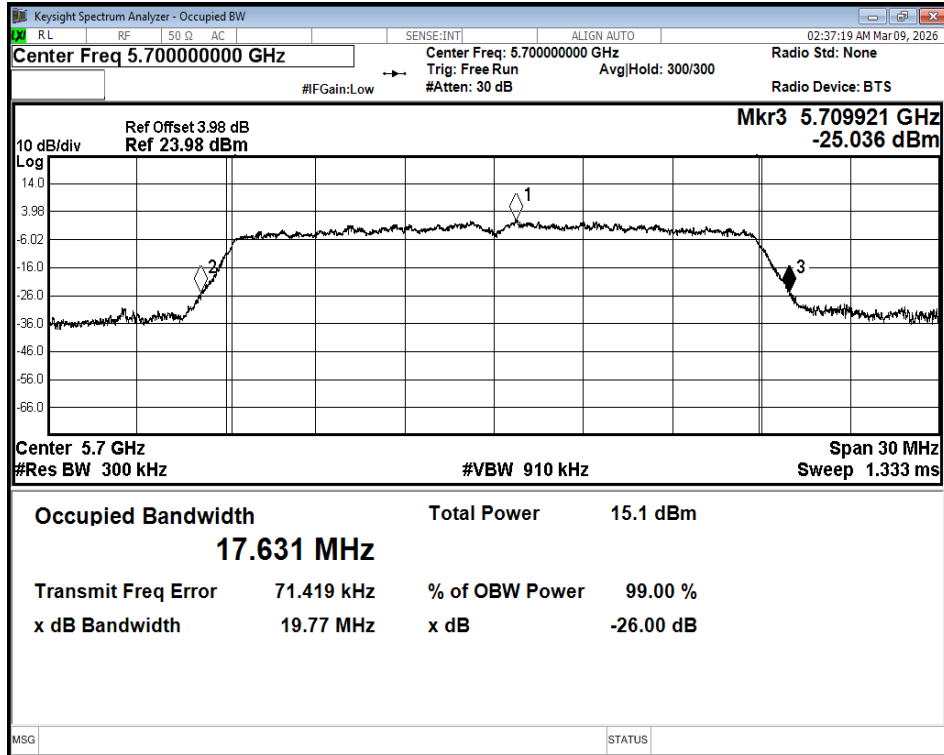
-26dB Bandwidth NVNT a 5700MHz Ant1



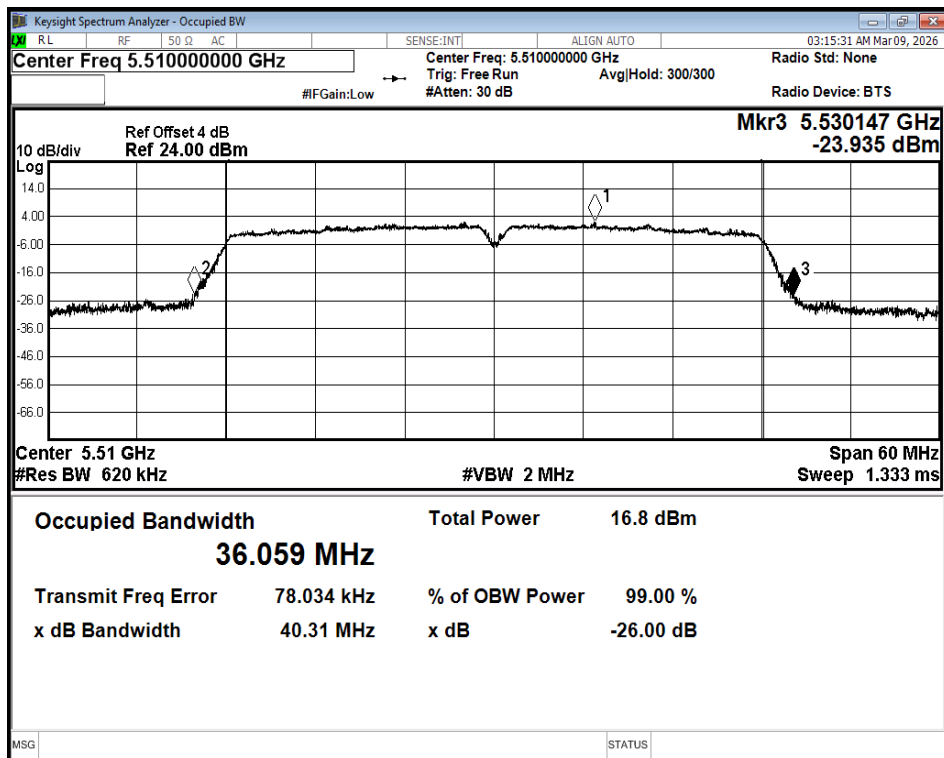
-26dB Bandwidth NVNT n20 5500MHz Ant1



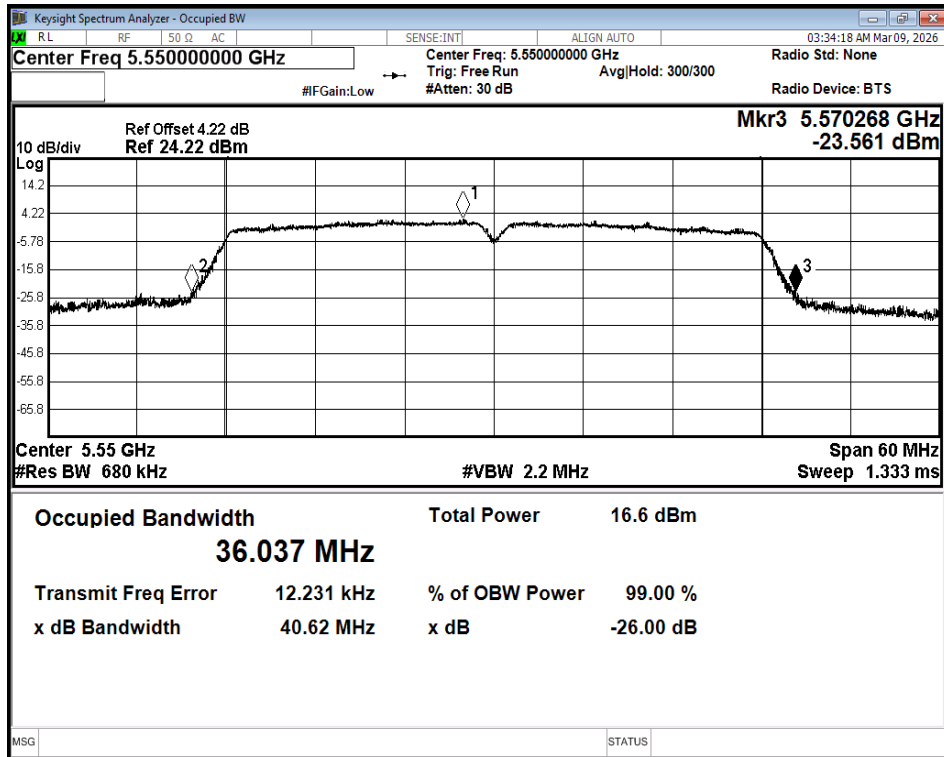
-26dB Bandwidth NVNT n20 5580MHz Ant1



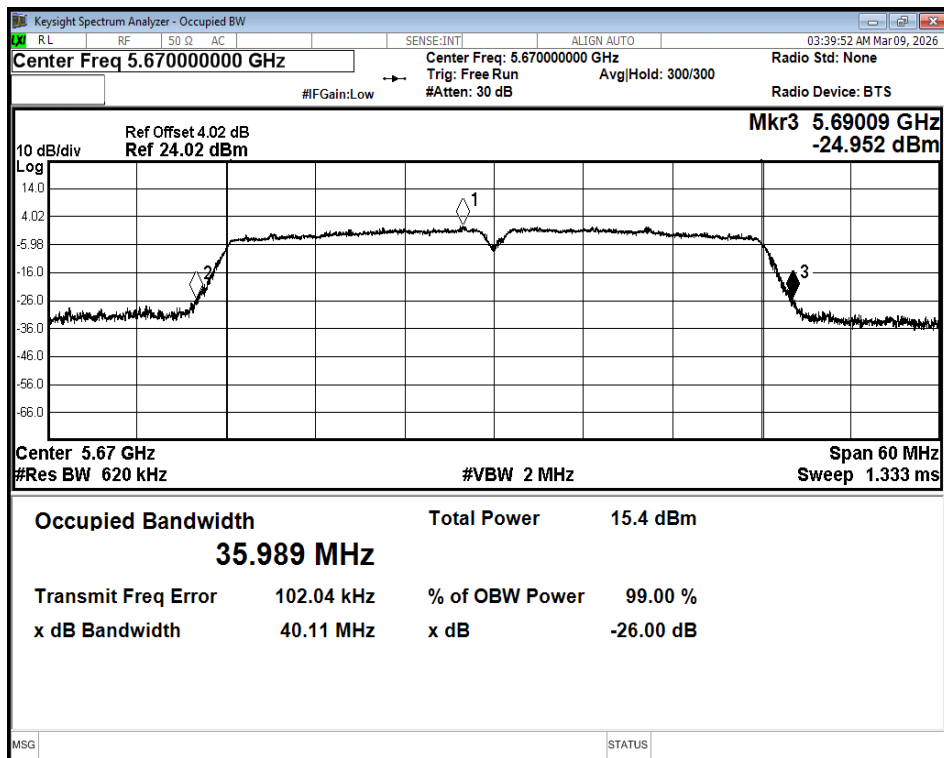
-26dB Bandwidth NVNT n20 5700MHz Ant1



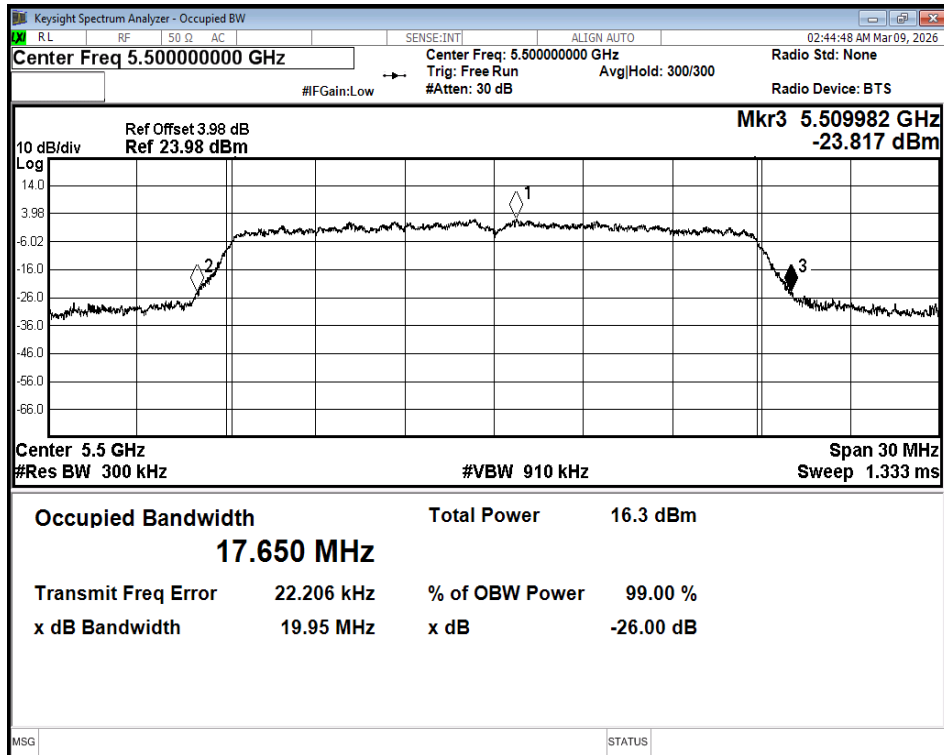
-26dB Bandwidth NVNT n40 5510MHz Ant1



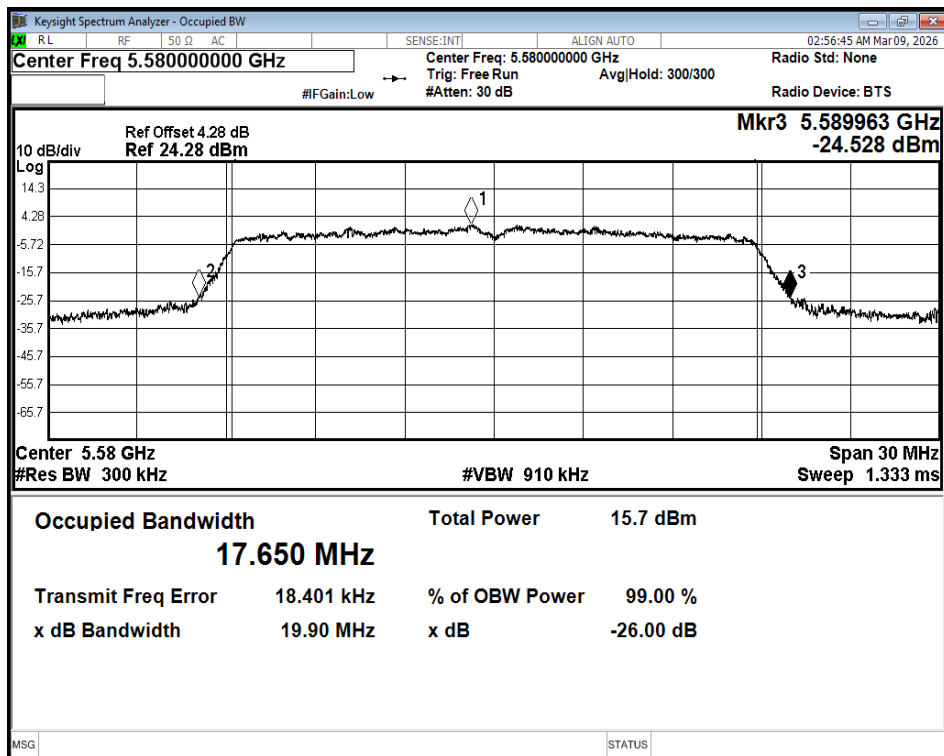
-26dB Bandwidth NVNT n40 5550MHz Ant1



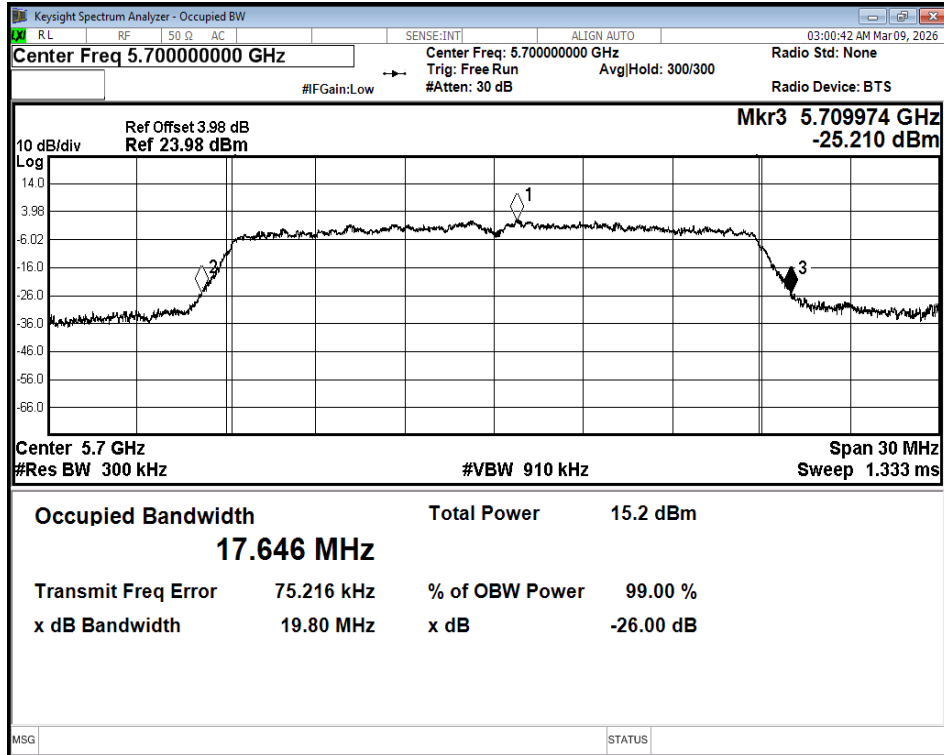
-26dB Bandwidth NVNT n40 5670MHz Ant1



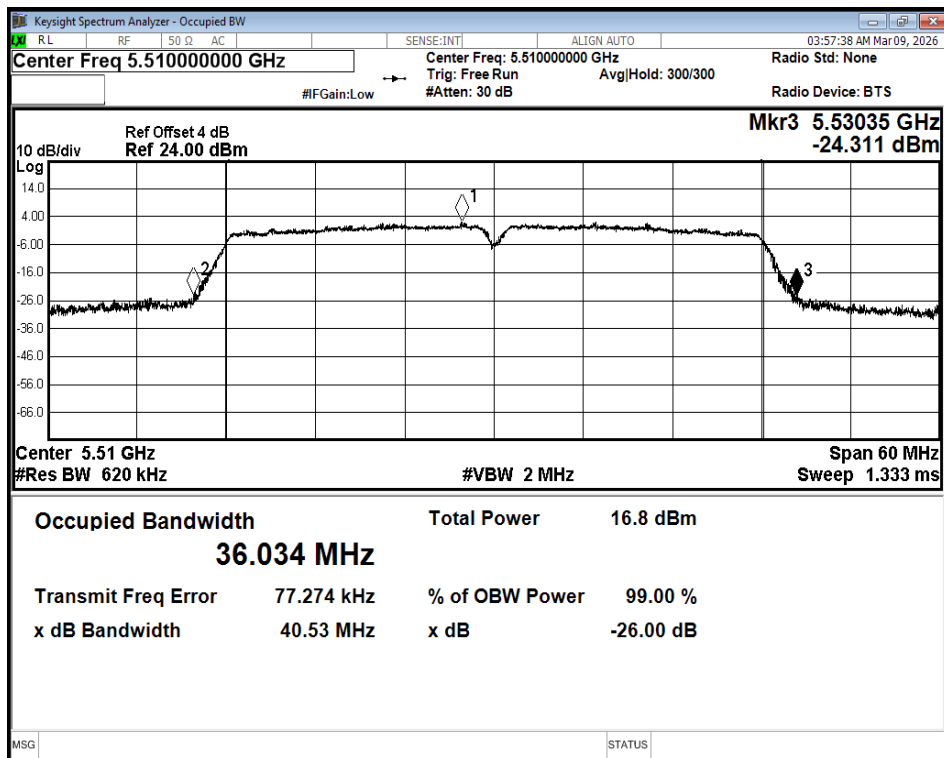
-26dB Bandwidth NVNT ac20 5500MHz Ant1



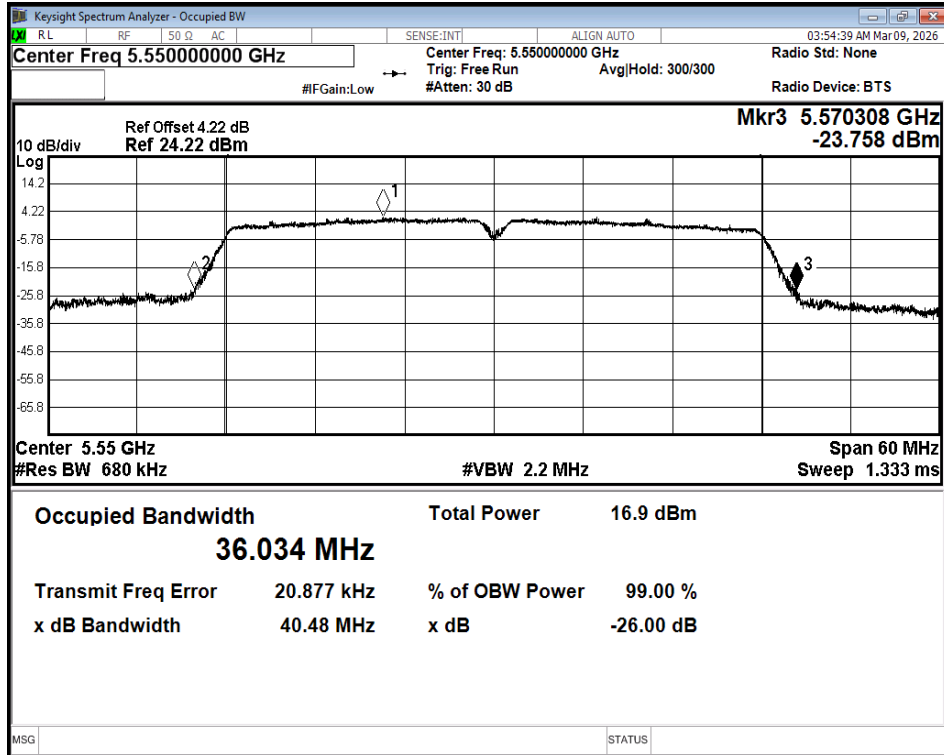
-26dB Bandwidth NVNT ac20 5580MHz Ant1



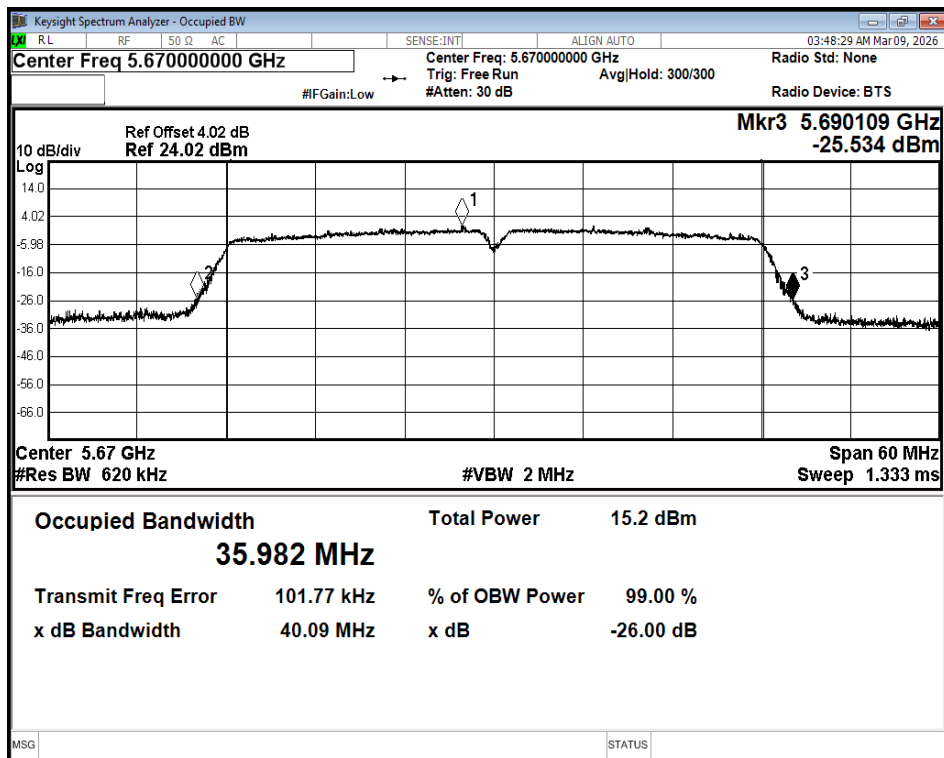
-26dB Bandwidth NVNT ac20 5700MHz Ant1



-26dB Bandwidth NVNT ac40 5510MHz Ant1



-26dB Bandwidth NVNT ac40 5550MHz Ant1



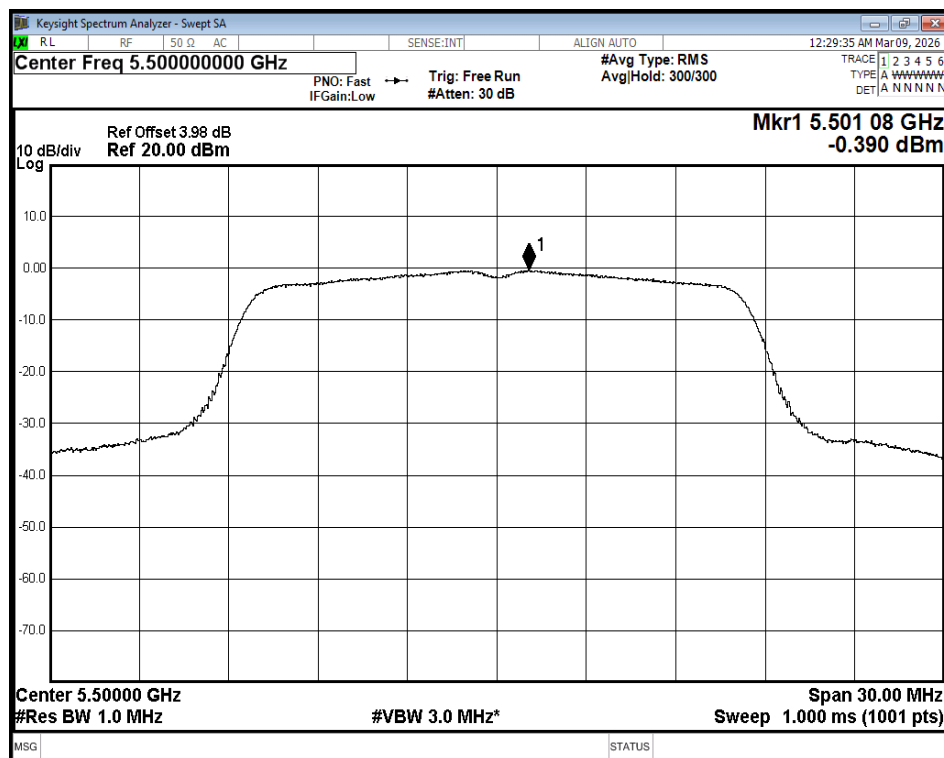
-26dB Bandwidth NVNT ac40 5670MHz Ant1

2 Maximum Conducted Output Power

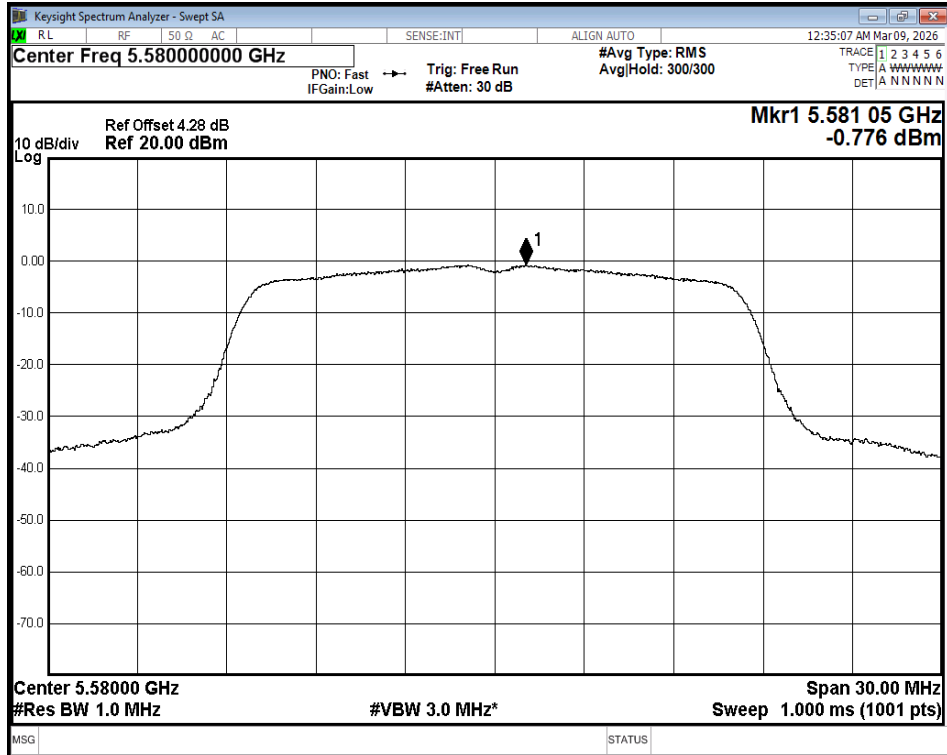
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5500	Ant1	12.64	0	12.64	24	Pass
NVNT	a	5580	Ant1	12.27	0	12.27	24	Pass
NVNT	a	5700	Ant1	11.83	0	11.83	24	Pass
NVNT	n20	5500	Ant1	12.93	0	12.93	24	Pass
NVNT	n20	5580	Ant1	12.44	0	12.44	24	Pass
NVNT	n20	5700	Ant1	11.7	0	11.7	24	Pass
NVNT	n40	5510	Ant1	13.44	0	13.44	24	Pass
NVNT	n40	5550	Ant1	13.23	0	13.23	24	Pass
NVNT	n40	5670	Ant1	12.04	0	12.04	24	Pass
NVNT	ac20	5500	Ant1	12.95	0	12.95	24	Pass
NVNT	ac20	5580	Ant1	12.39	0	12.39	24	Pass
NVNT	ac20	5700	Ant1	11.86	0	11.86	24	Pass
NVNT	ac40	5510	Ant1	13.5	0	13.50	24	Pass
NVNT	ac40	5550	Ant1	13.5	0	13.50	24	Pass
NVNT	ac40	5670	Ant1	11.92	0	11.92	24	Pass

3 Maximum Power Spectral Density Level

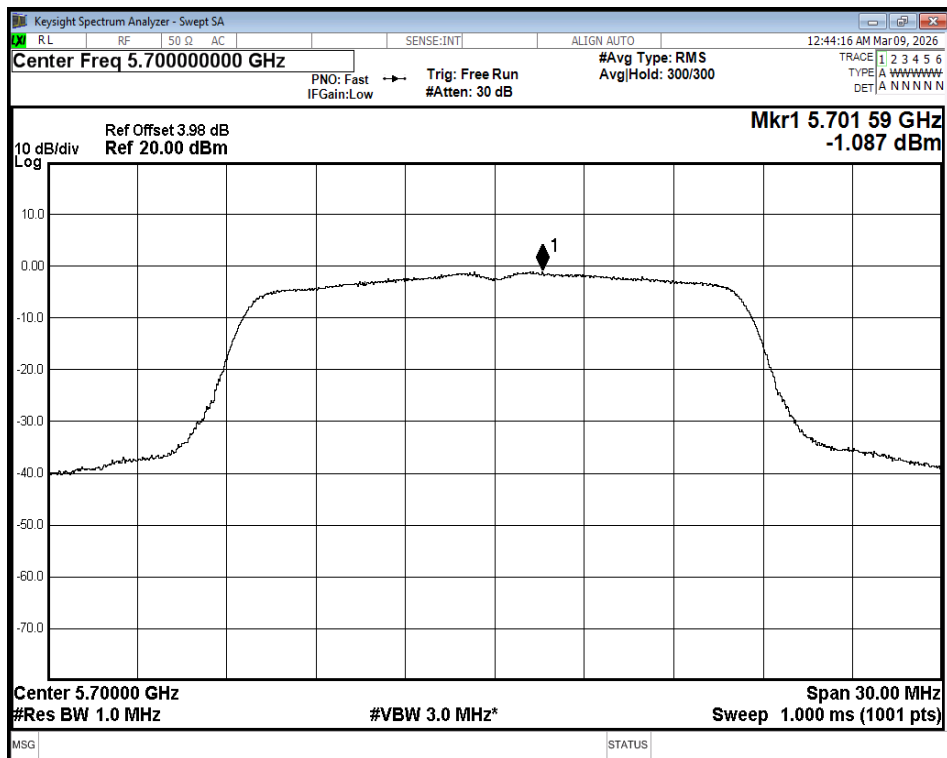
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total Conducted PSD (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5500	Ant1	-0.39	0	-0.39	11	Pass
NVNT	a	5580	Ant1	-0.78	0	-0.78	11	Pass
NVNT	a	5700	Ant1	-1.09	0	-1.09	11	Pass
NVNT	n20	5500	Ant1	-0.19	0	-0.19	11	Pass
NVNT	n20	5580	Ant1	-0.62	0	-0.62	11	Pass
NVNT	n20	5700	Ant1	-1.46	0	-1.46	11	Pass
NVNT	n40	5510	Ant1	-3.4	0	-3.4	11	Pass
NVNT	n40	5550	Ant1	-3.44	0	-3.44	11	Pass
NVNT	n40	5670	Ant1	-4.49	0	-4.49	11	Pass
NVNT	ac20	5500	Ant1	-0.22	0	-0.22	11	Pass
NVNT	ac20	5580	Ant1	-0.83	0	-0.83	11	Pass
NVNT	ac20	5700	Ant1	-1.16	0	-1.16	11	Pass
NVNT	ac40	5510	Ant1	-3.29	0	-3.29	11	Pass
NVNT	ac40	5550	Ant1	-3.26	0	-3.26	11	Pass
NVNT	ac40	5670	Ant1	-4.71	0	-4.71	11	Pass



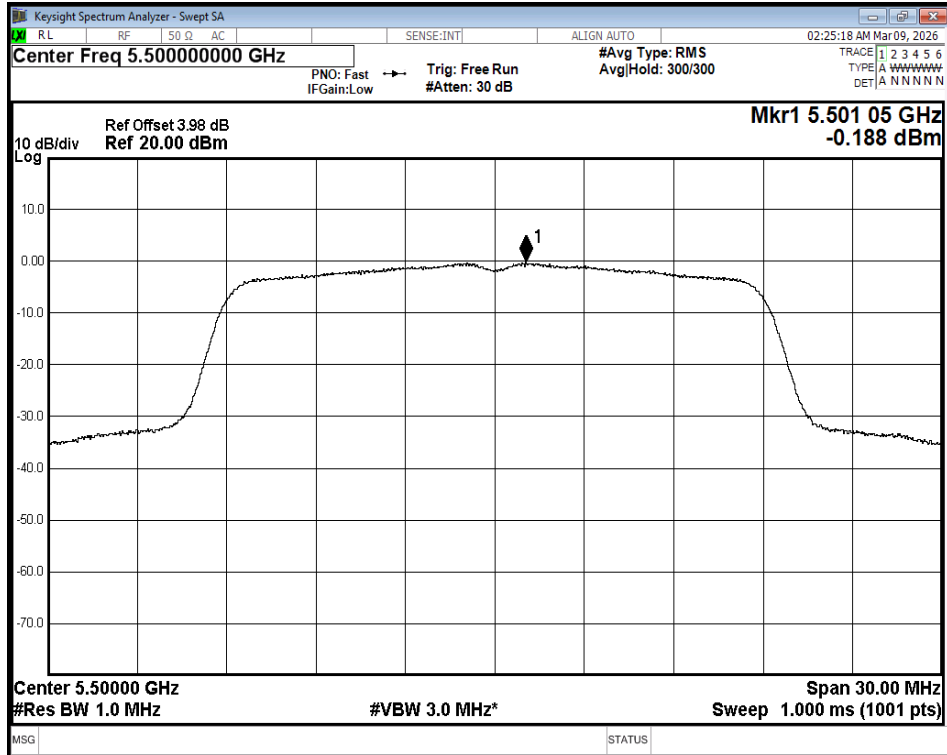
PSD NVNT a 5500MHz Ant1



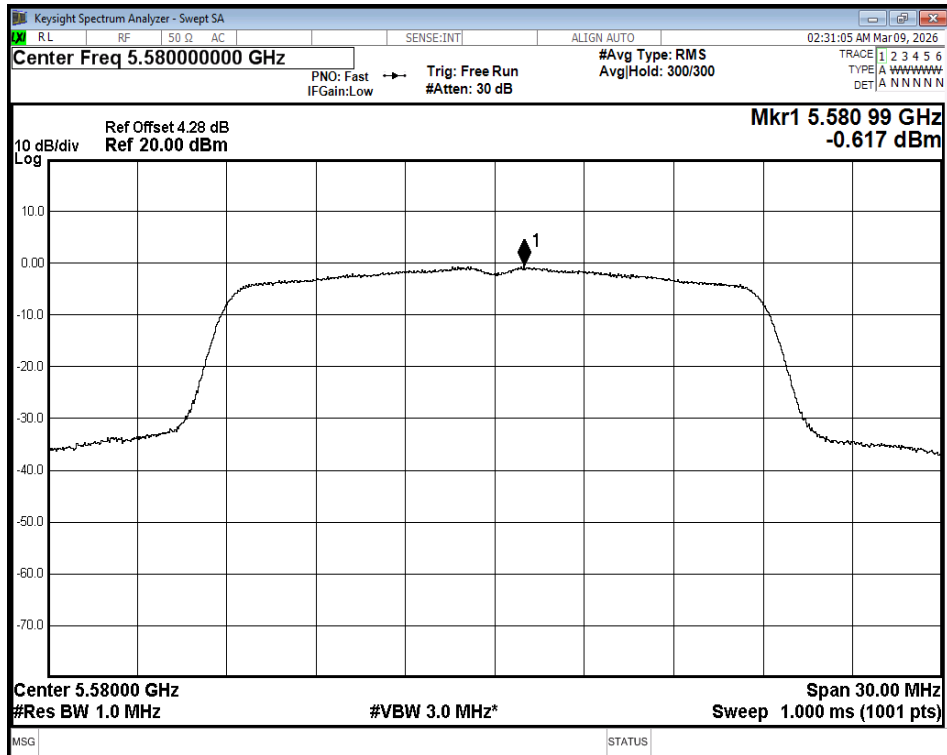
PSD NVNT a 5580MHz Ant1



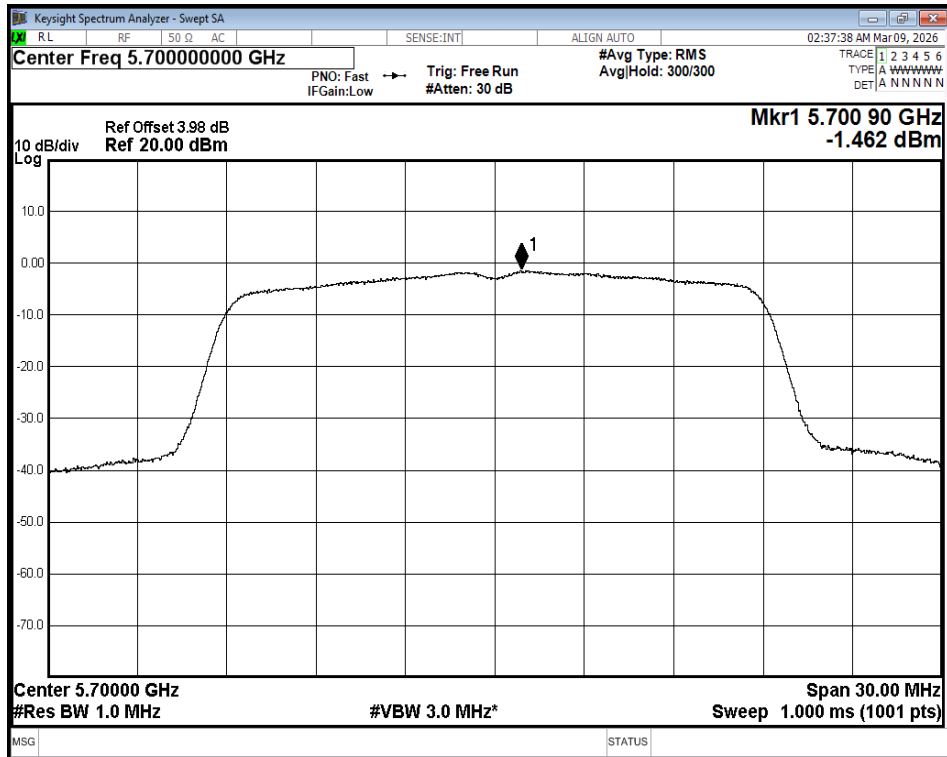
PSD NVNT a 5700MHz Ant1



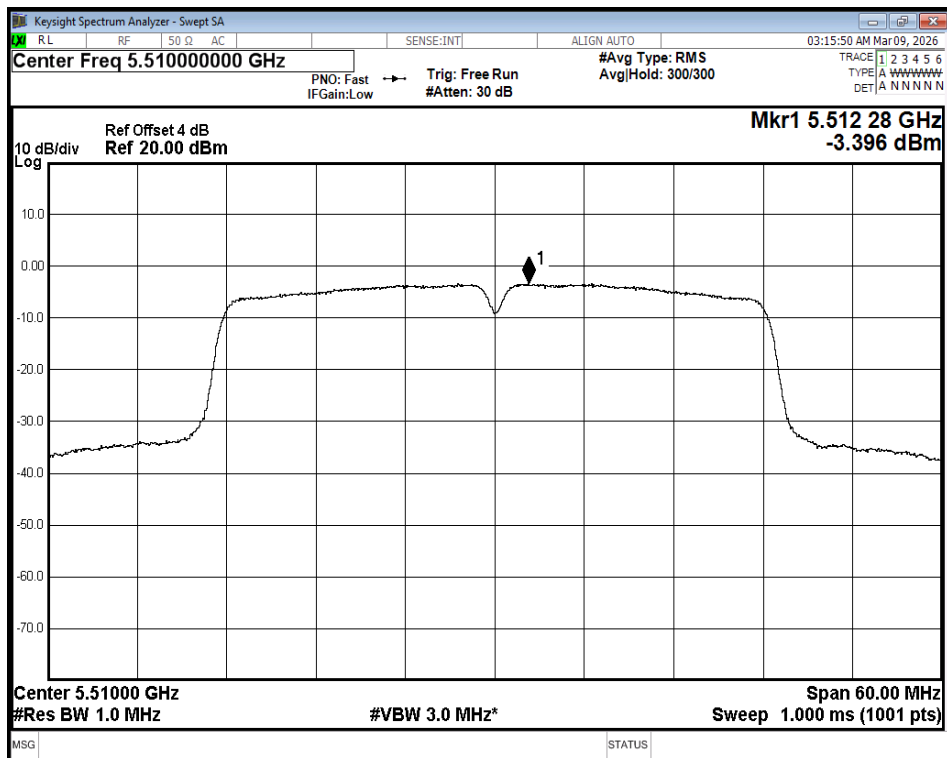
PSD NVNT n20 5500MHz Ant1



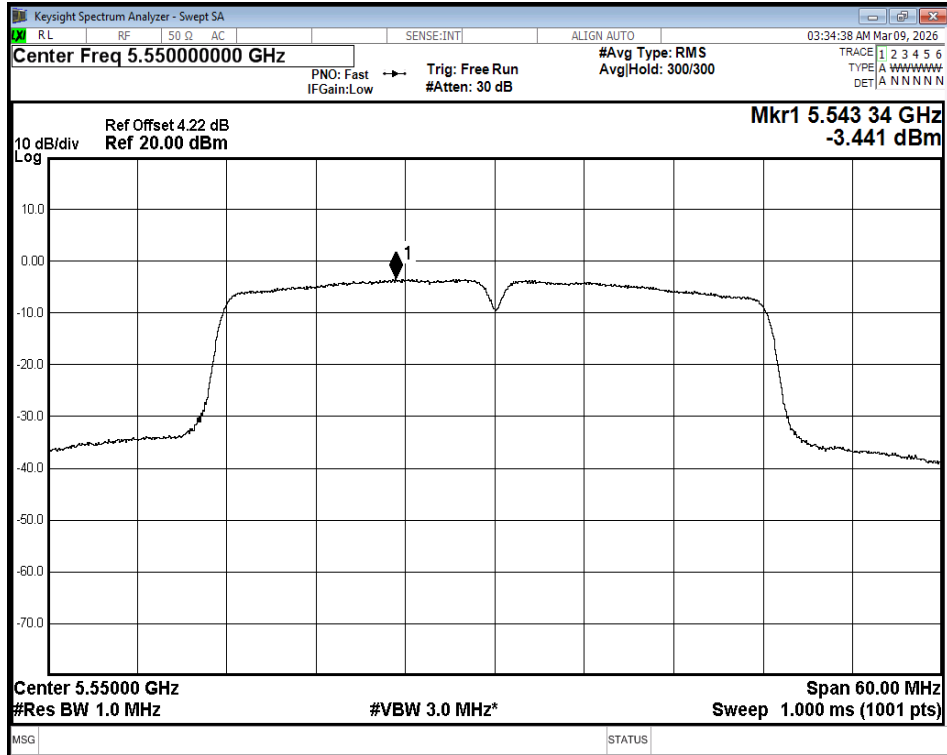
PSD NVNT n20 5580MHz Ant1



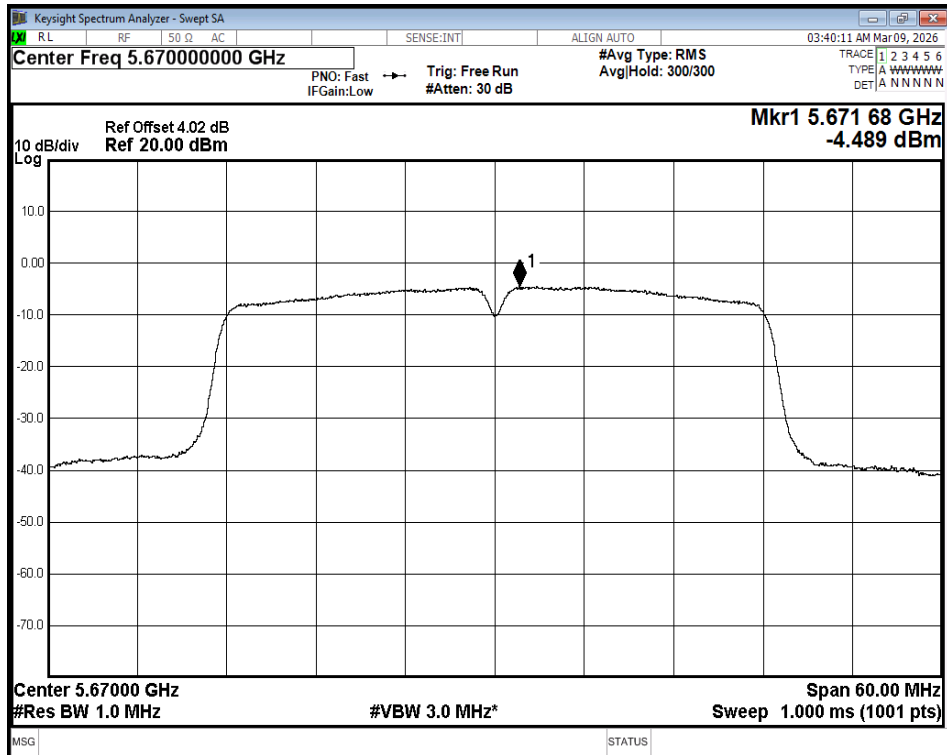
PSD NVNT n20 5700MHz Ant1



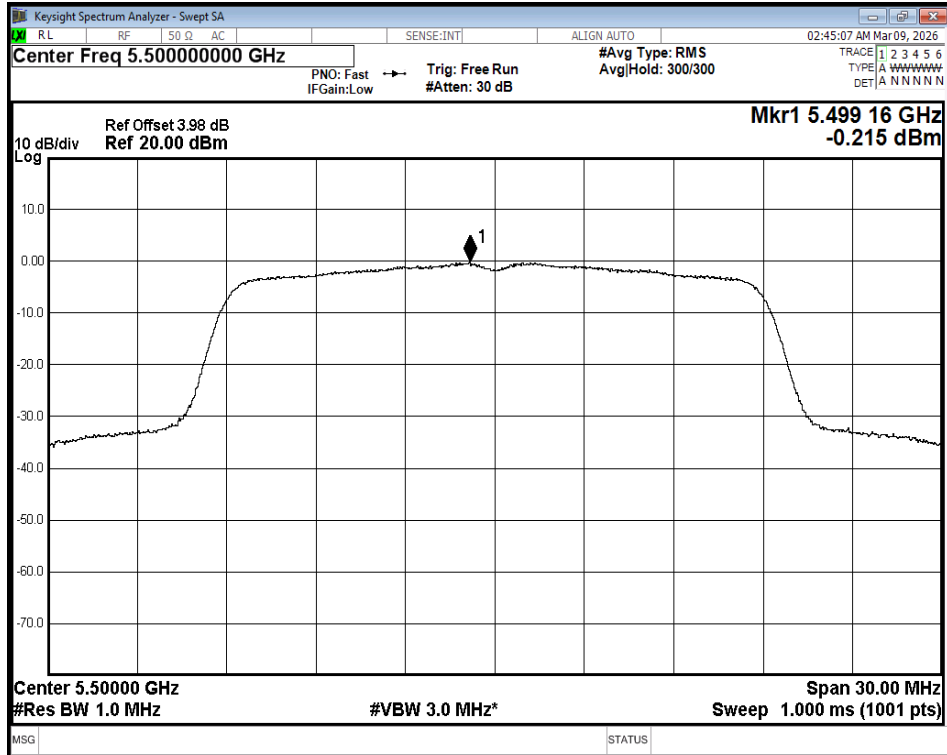
PSD NVNT n40 5510MHz Ant1



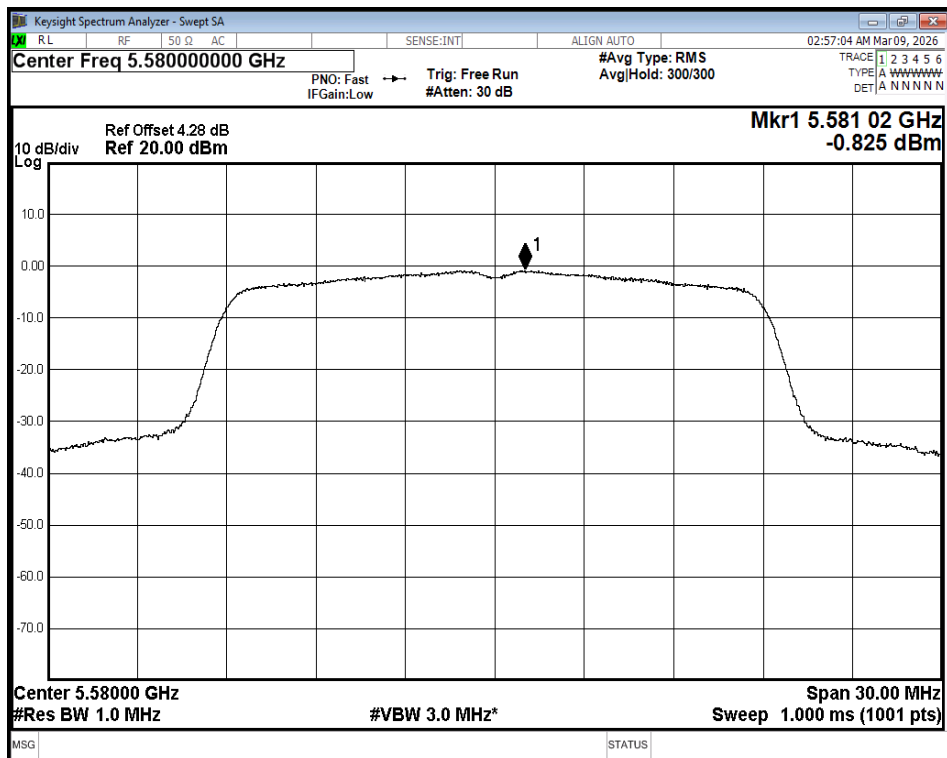
PSD NVNT n40 5550MHz Ant1



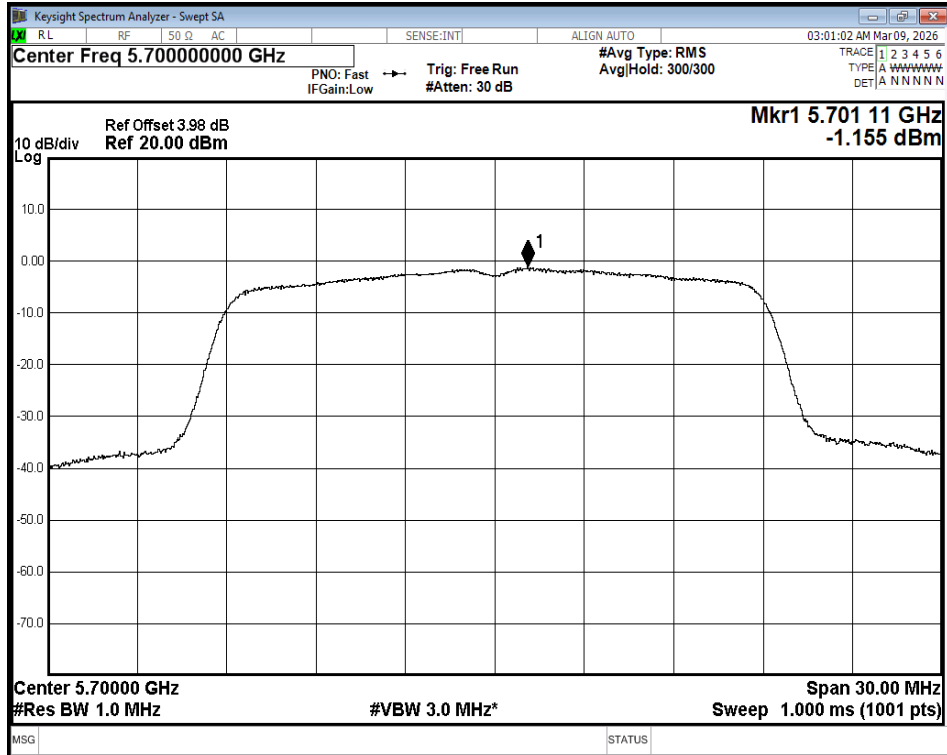
PSD NVNT n40 5670MHz Ant1



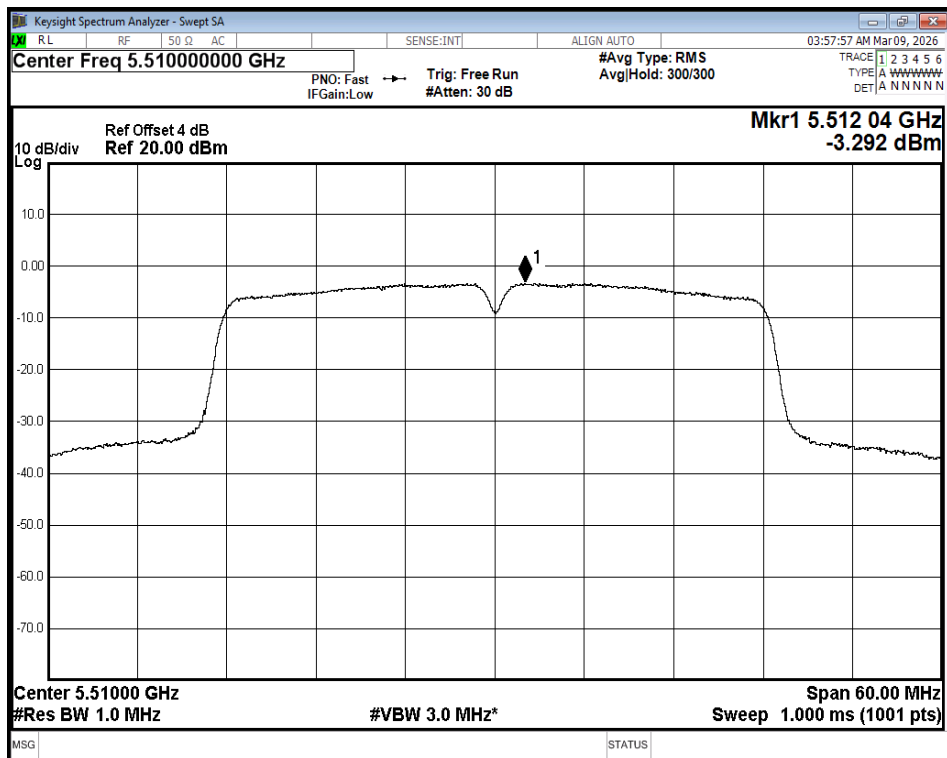
PSD NVNT ac20 5500MHz Ant1



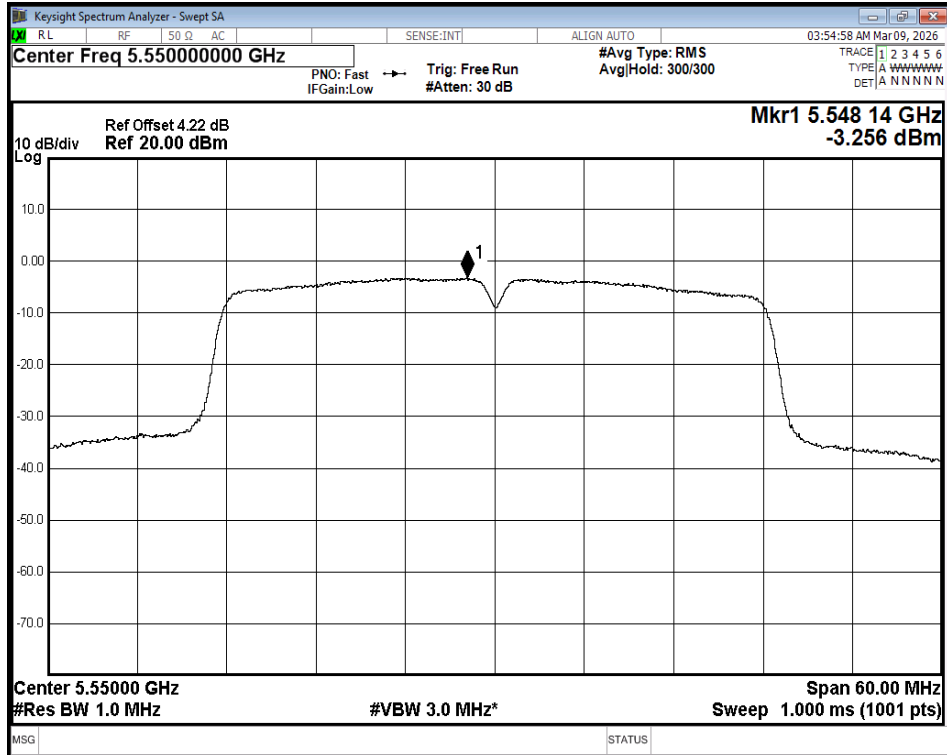
PSD NVNT ac20 5580MHz Ant1



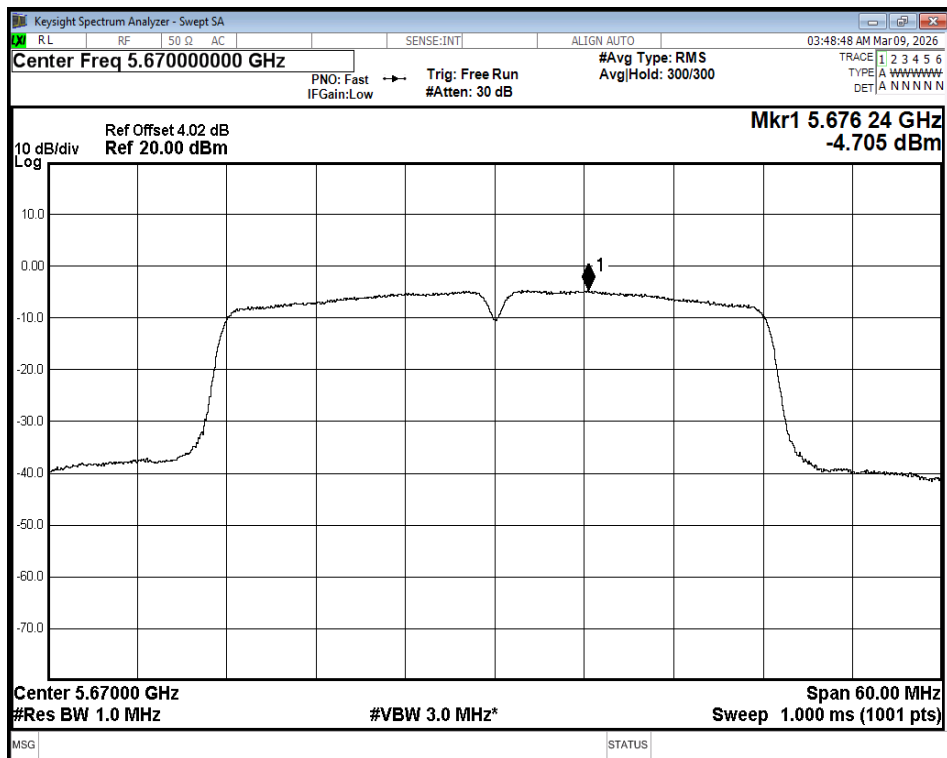
PSD NVNT ac20 5700MHz Ant1



PSD NVNT ac40 5510MHz Ant1



PSD NVNT ac40 5550MHz Ant1

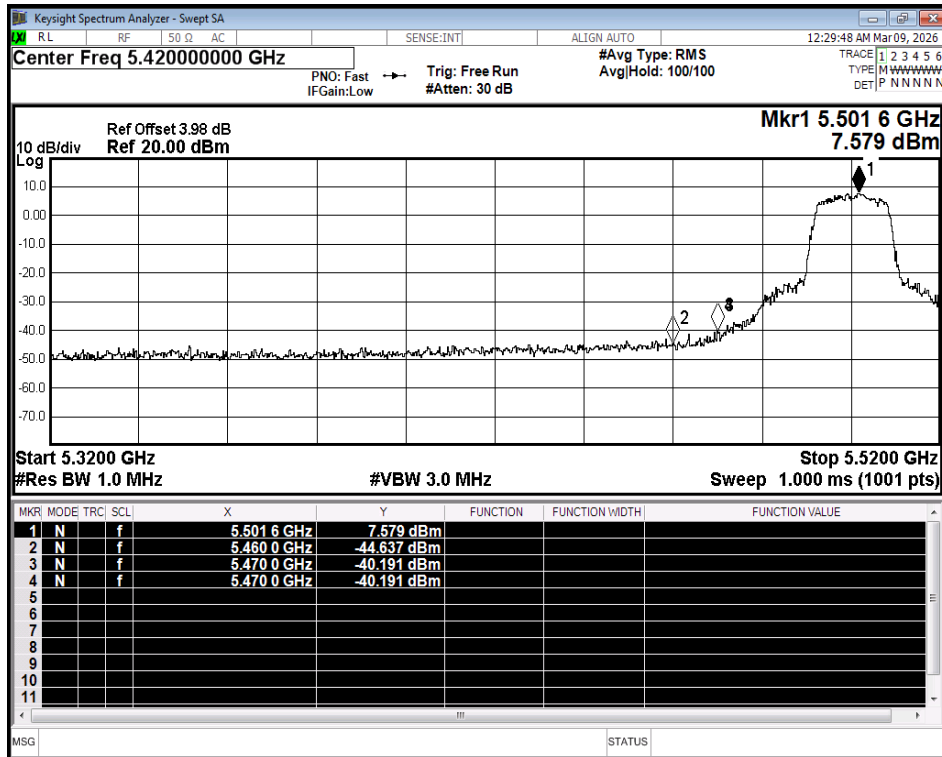


PSD NVNT ac40 5670MHz Ant1

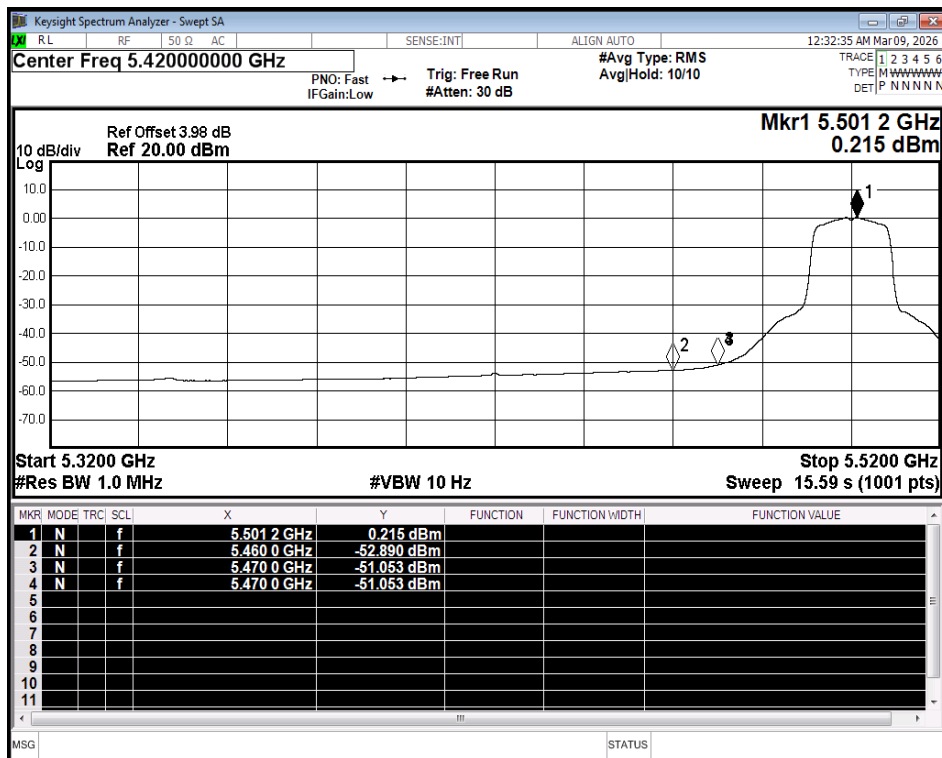
4 Restrict Band

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	-44.63	2	52.6	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-52.88	2	44.35	Average	54	Pass
NVNT	a	5500	Ant1	5470	-40.19	2	57.04	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-51.05	2	46.18	Average	54	Pass
NVNT	a	5500	Ant1	5470	-40.19	2	57.04	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-51.05	2	46.18	Average	54	Pass
NVNT	a	5700	Ant1	5725	-41.94	2	55.29	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-50.12	2	47.11	Average	54	Pass
NVNT	a	5700	Ant1	5726.2	-40.32	2	56.91	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725.6	-50.05	2	47.18	Average	54	Pass
NVNT	a	5700	Ant1	5735	-42.87	2	54.36	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-50.95	2	46.28	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-43.94	2	53.29	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-52.82	2	44.41	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-38.77	2	58.46	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-50.16	2	47.07	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-38.77	2	58.46	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-50.16	2	47.07	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-40.47	2	56.76	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-49.53	2	47.7	Average	54	Pass
NVNT	n20	5700	Ant1	5725.2	-39.56	2	57.67	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-49.53	2	47.7	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-43.26	2	53.97	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-51.15	2	46.08	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-48.78	2	48.45	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-55.72	2	41.51	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-38.47	2	58.76	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-48.56	2	48.67	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-38.47	2	58.76	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-48.56	2	48.67	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-40.15	2	57.08	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-51.27	2	45.96	Average	54	Pass
NVNT	n40	5670	Ant1	5726	-37.47	2	59.76	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-51.27	2	45.96	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-44.28	2	52.95	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-51.73	2	45.5	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-42.36	2	54.87	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5460	-52.56	2	44.67	Average	54	Pass
NVNT	ac20	5500	Ant1	5468.2	-39.9	2	57.33	Peak	68.2	Pass

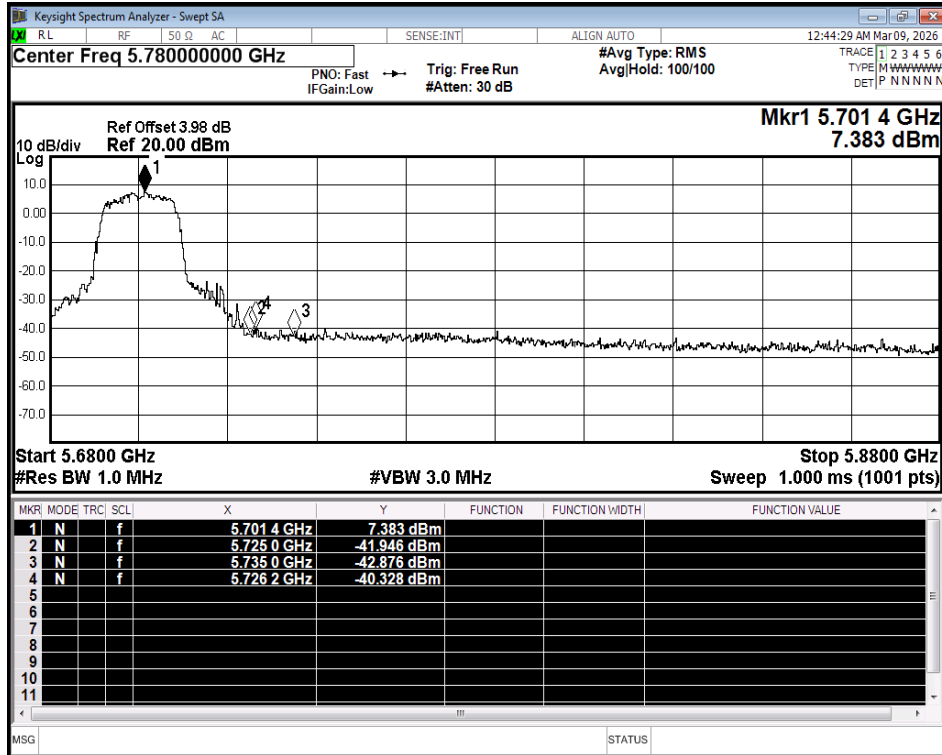
NVNT	ac20	5500	Ant1	5470	-49.82	2	47.41	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-40.95	2	56.28	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-49.82	2	47.41	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-38.72	2	58.51	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-48.73	2	48.5	Average	54	Pass
NVNT	ac20	5700	Ant1	5726.2	-37.56	2	59.67	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-48.73	2	48.5	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-43.46	2	53.77	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-51.16	2	46.07	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-46.89	2	50.34	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-55.72	2	41.51	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-39.29	2	57.94	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-48.68	2	48.55	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-39.29	2	57.94	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-48.68	2	48.55	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-42.46	2	54.77	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-51.35	2	45.88	Average	54	Pass
NVNT	ac40	5670	Ant1	5726	-39.66	2	57.57	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-51.35	2	45.88	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-45.06	2	52.17	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-51.75	2	45.48	Average	54	Pass



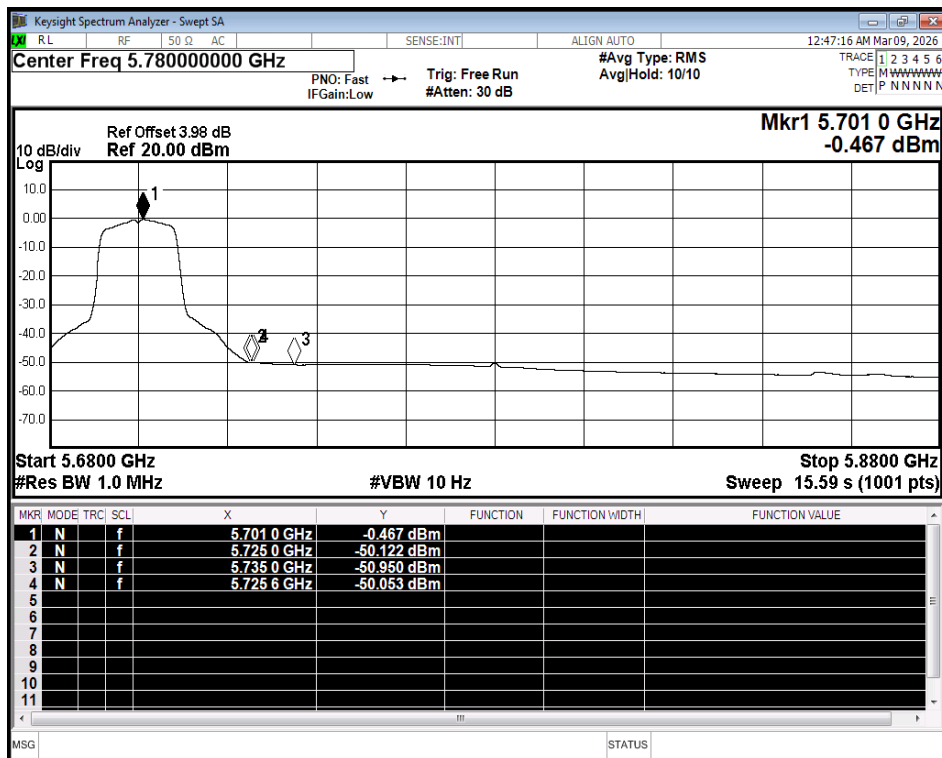
Restrict Band NVNT a 5500MHz Ant1 Peak



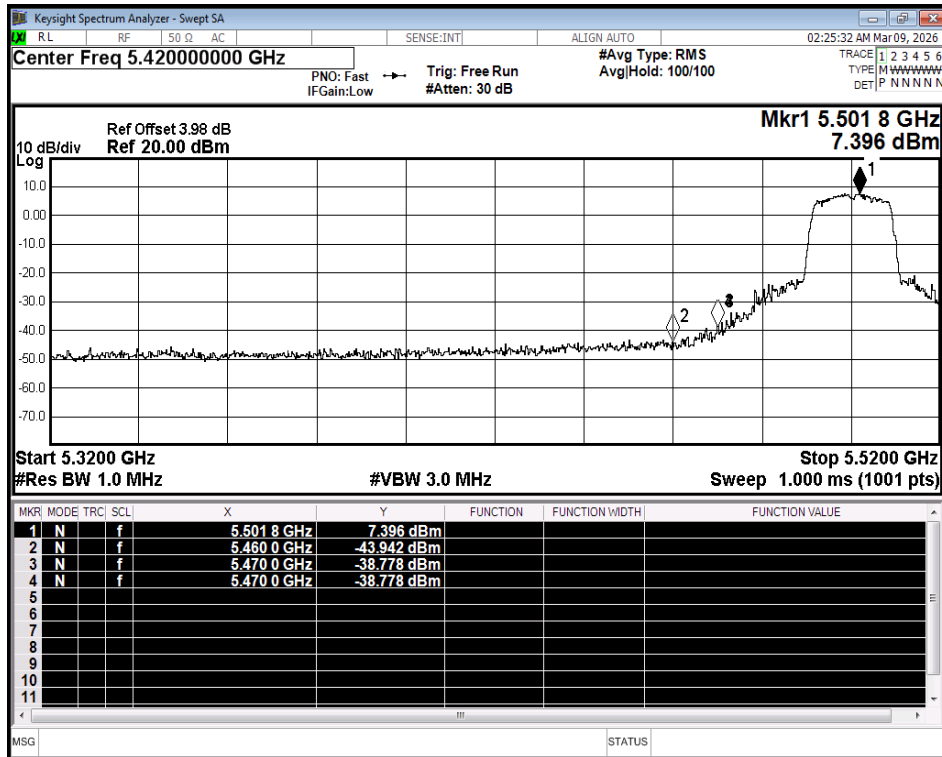
Restrict Band NVNT a 5500MHz Ant1 Average



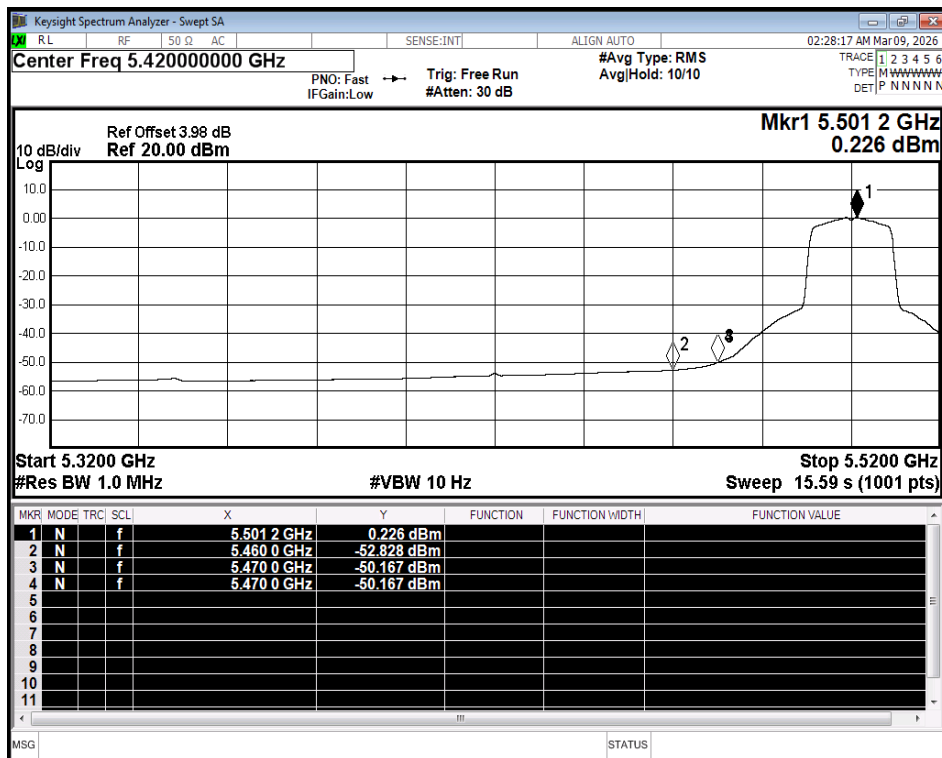
Restrict Band NVNT a 5700MHz Ant1 Peak



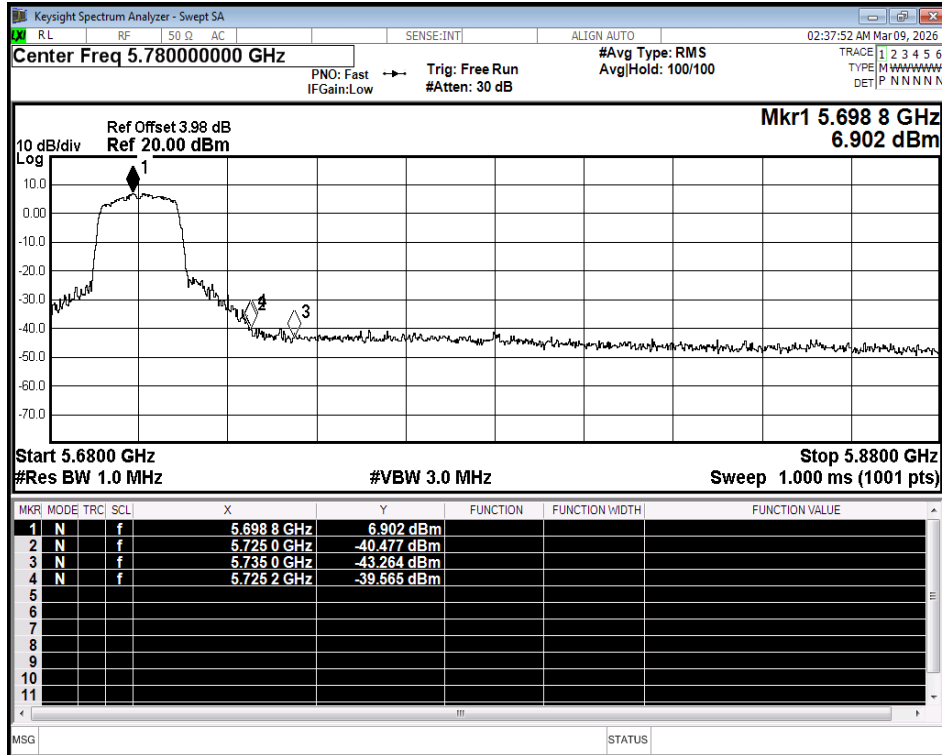
Restrict Band NVNT a 5700MHz Ant1 Average



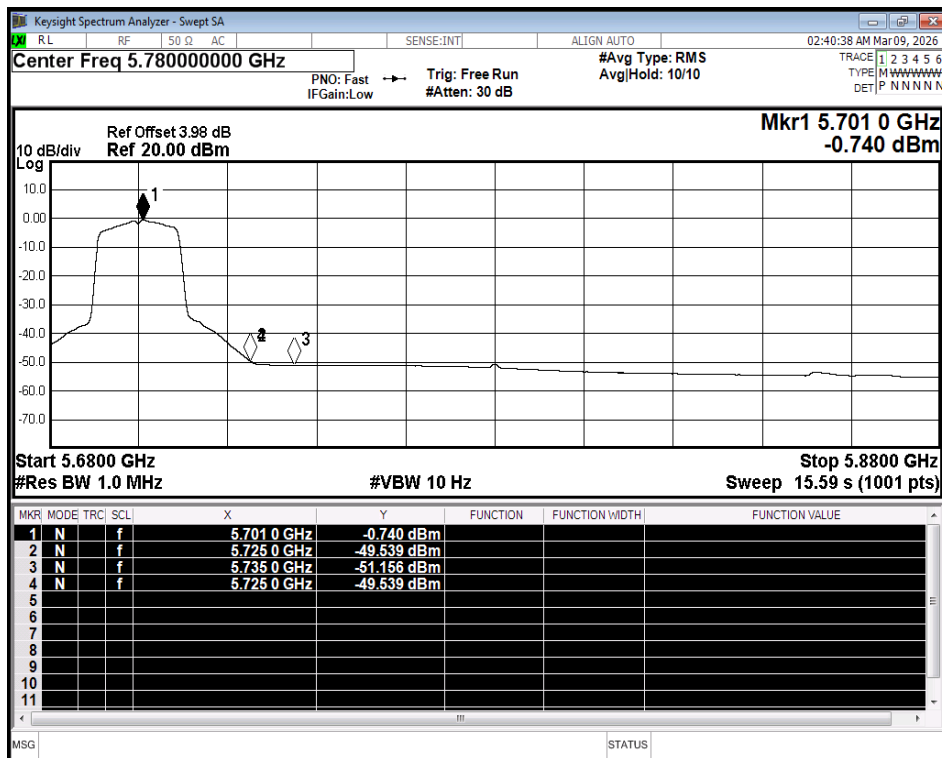
Restrict Band NVNT n20 5500MHz Ant1 Peak



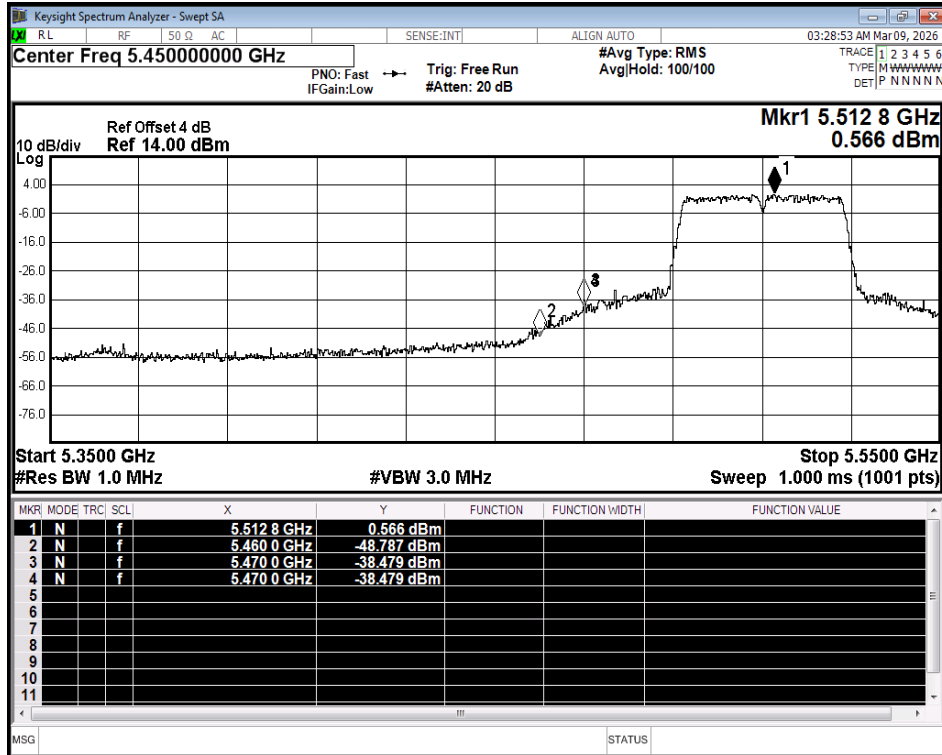
Restrict Band NVNT n20 5500MHz Ant1 Average



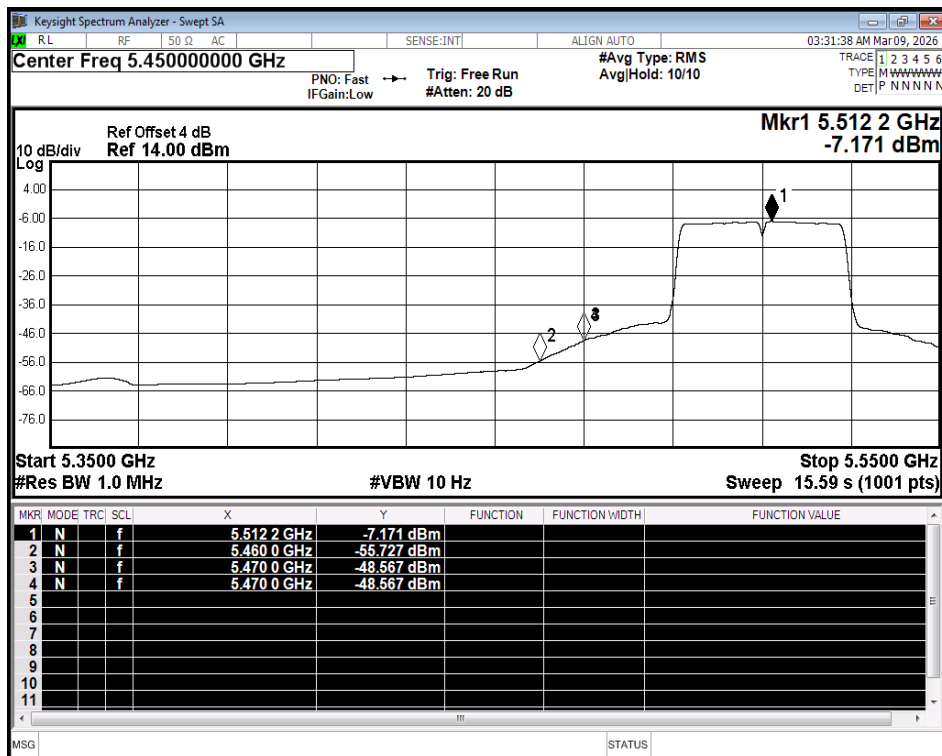
Restrict Band NVNT n20 5700MHz Ant1 Peak



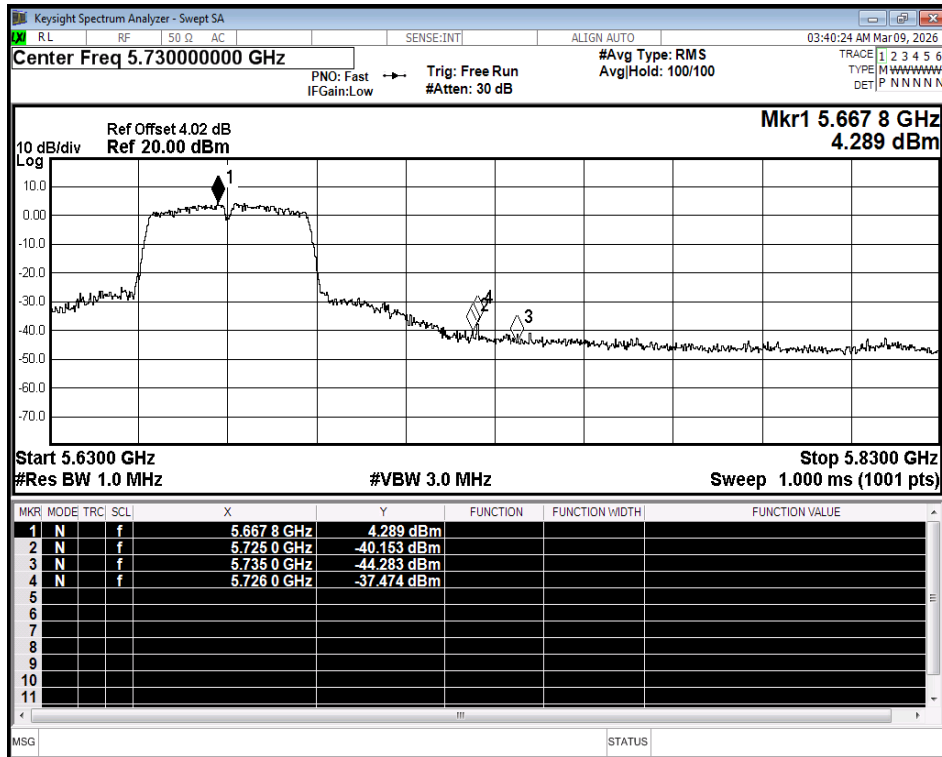
Restrict Band NVNT n20 5700MHz Ant1 Average



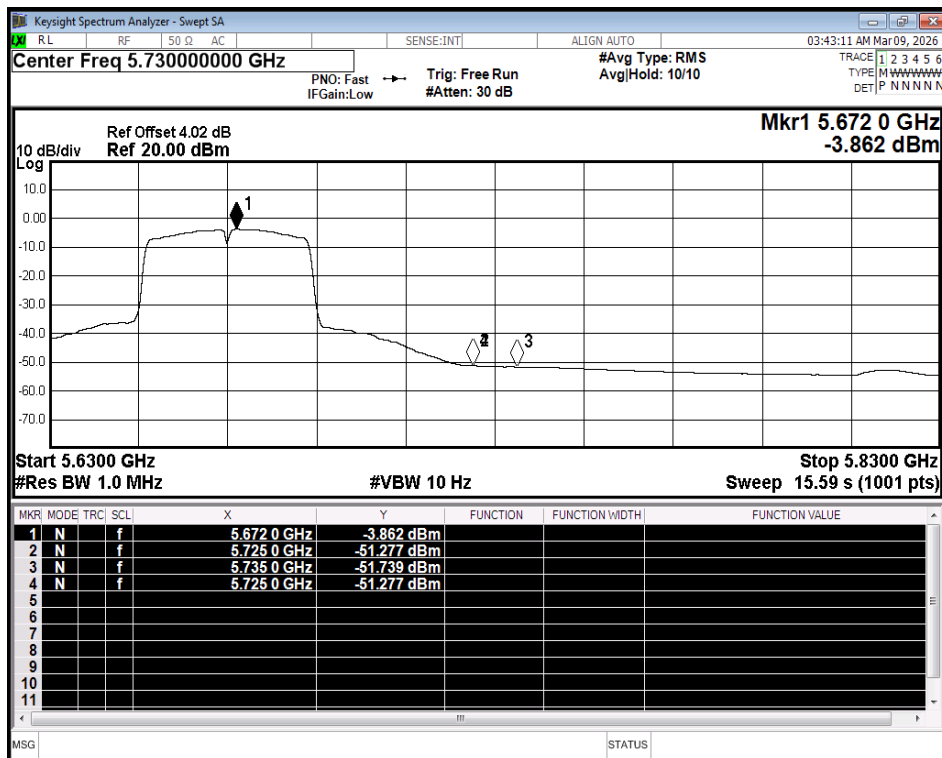
Restrict Band NVNT n40 5510MHz Ant1 Peak



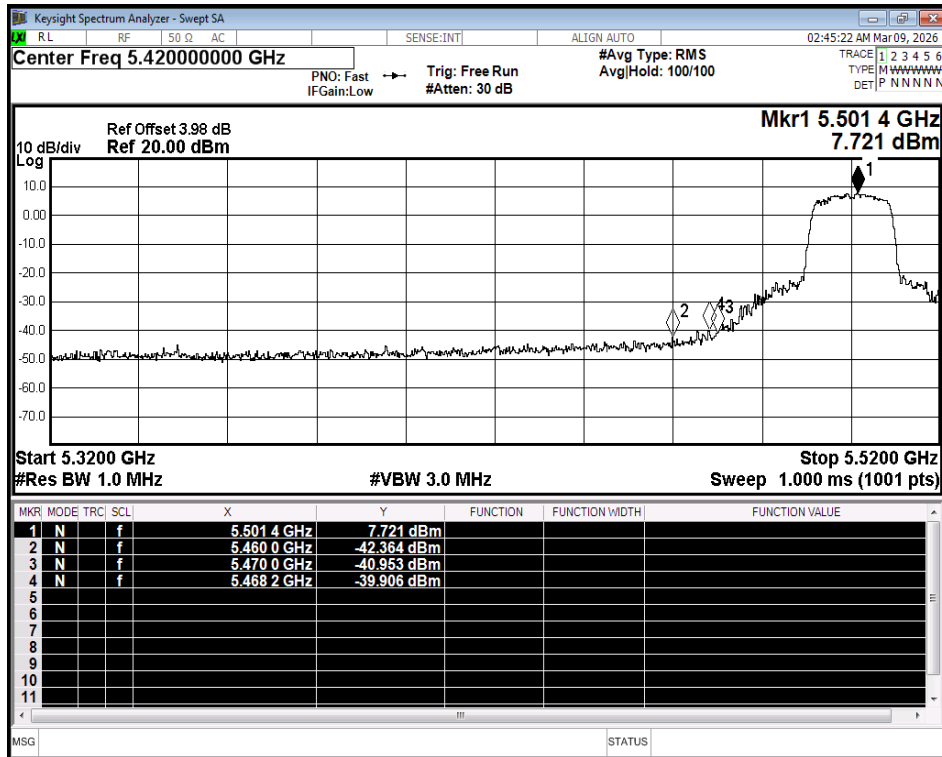
Restrict Band NVNT n40 5510MHz Ant1 Average



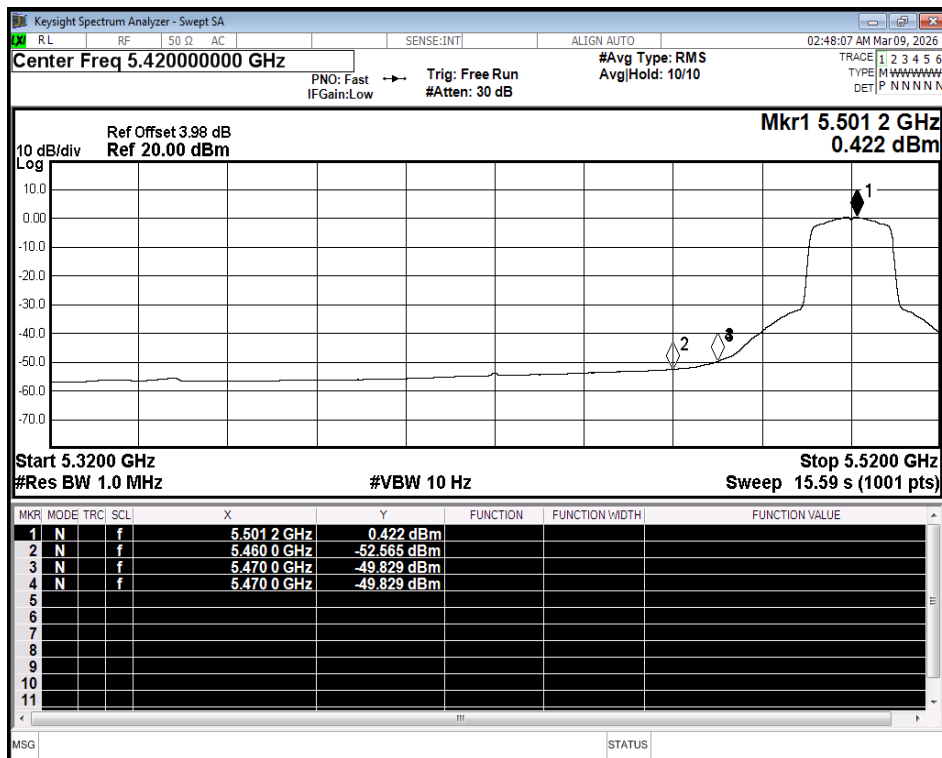
Restrict Band NVNT n40 5670MHz Ant1 Peak



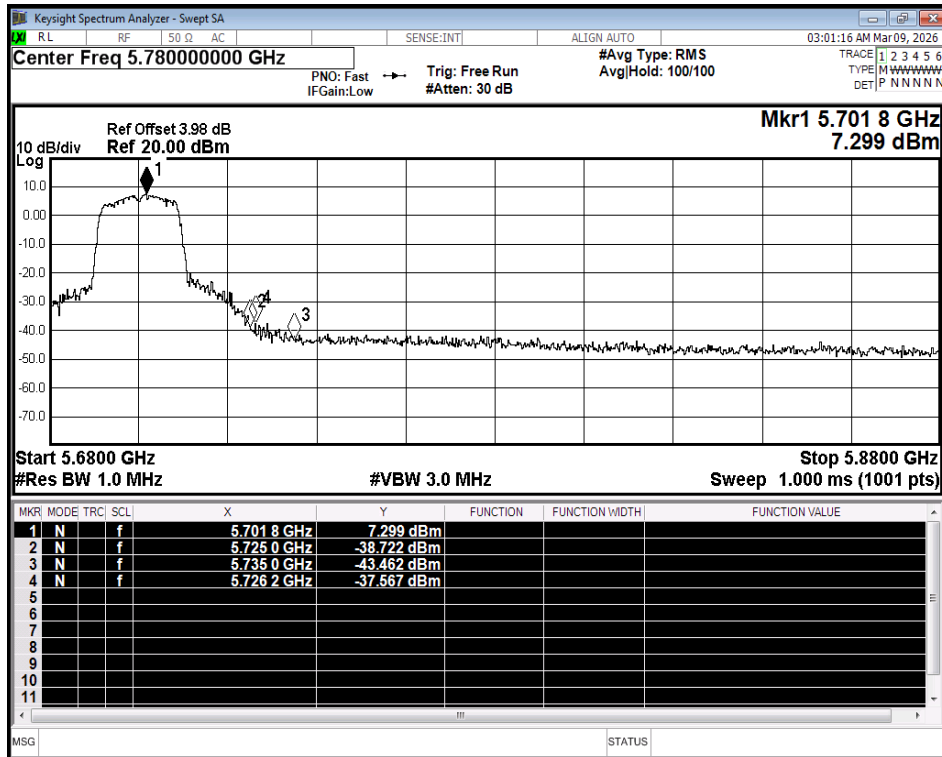
Restrict Band NVNT n40 5670MHz Ant1 Average



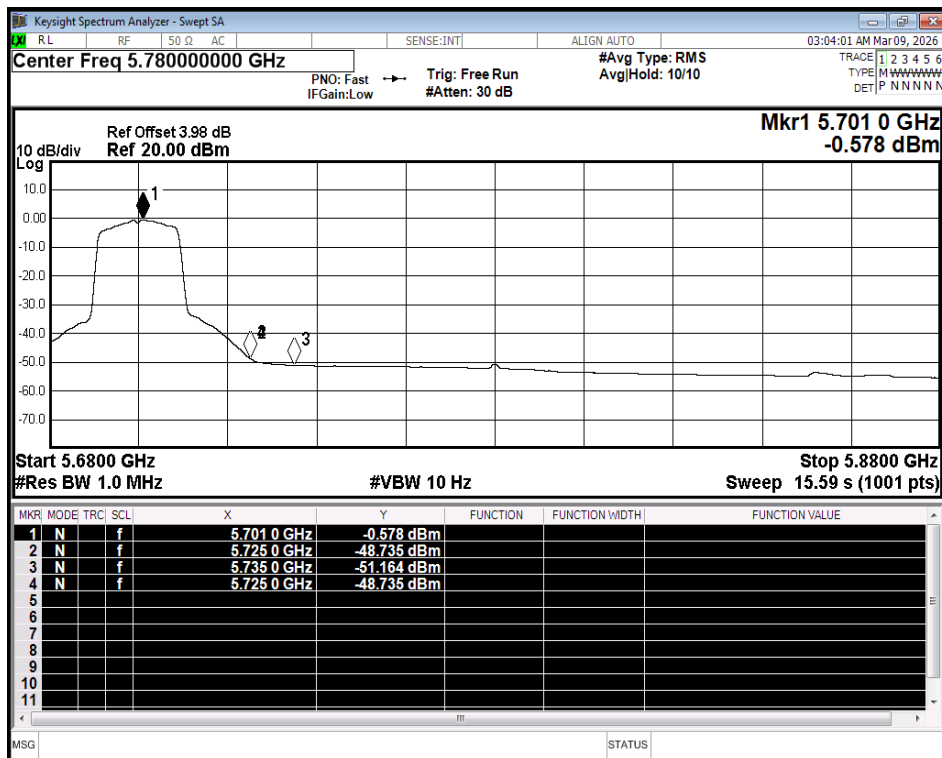
Restrict Band NVNT ac20 5500MHz Ant1 Peak



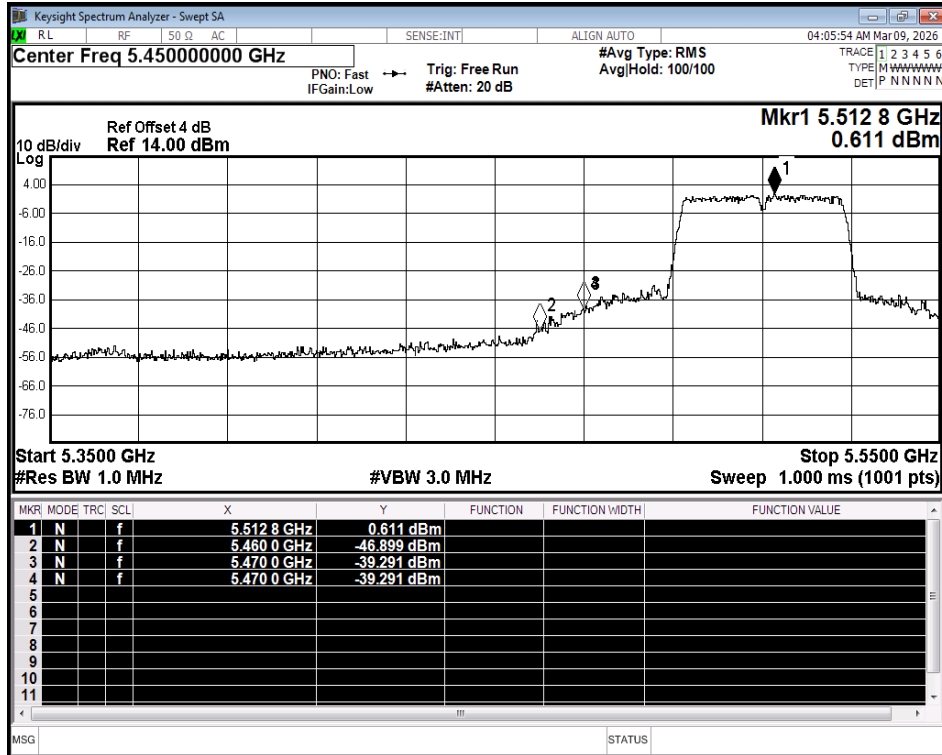
Restrict Band NVNT ac20 5500MHz Ant1 Average



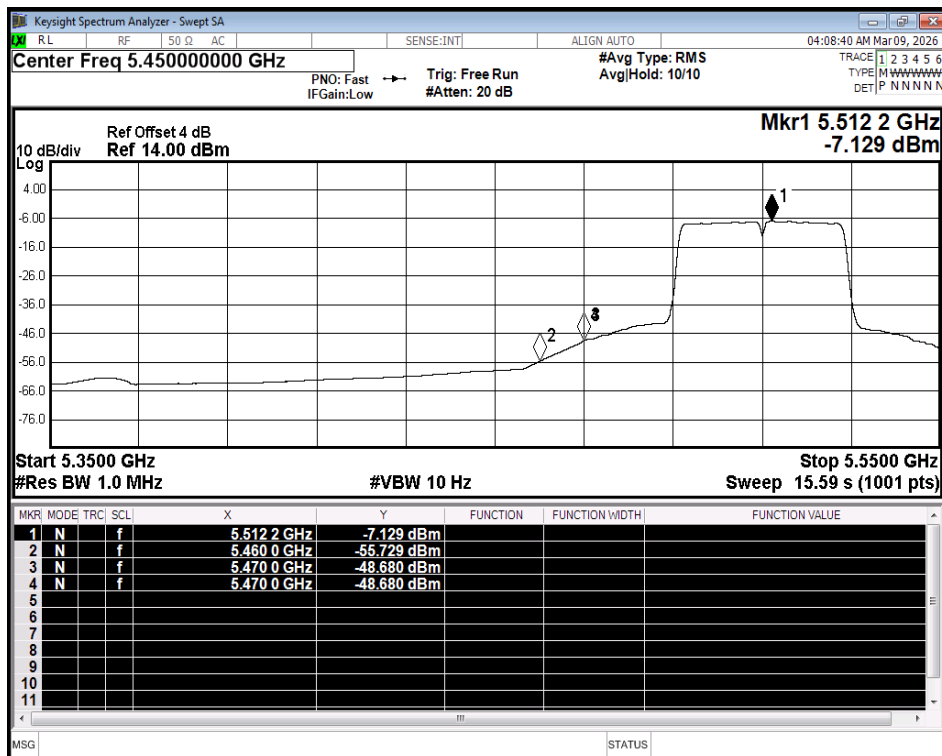
Restrict Band NVNT ac20 5700MHz Ant1 Peak



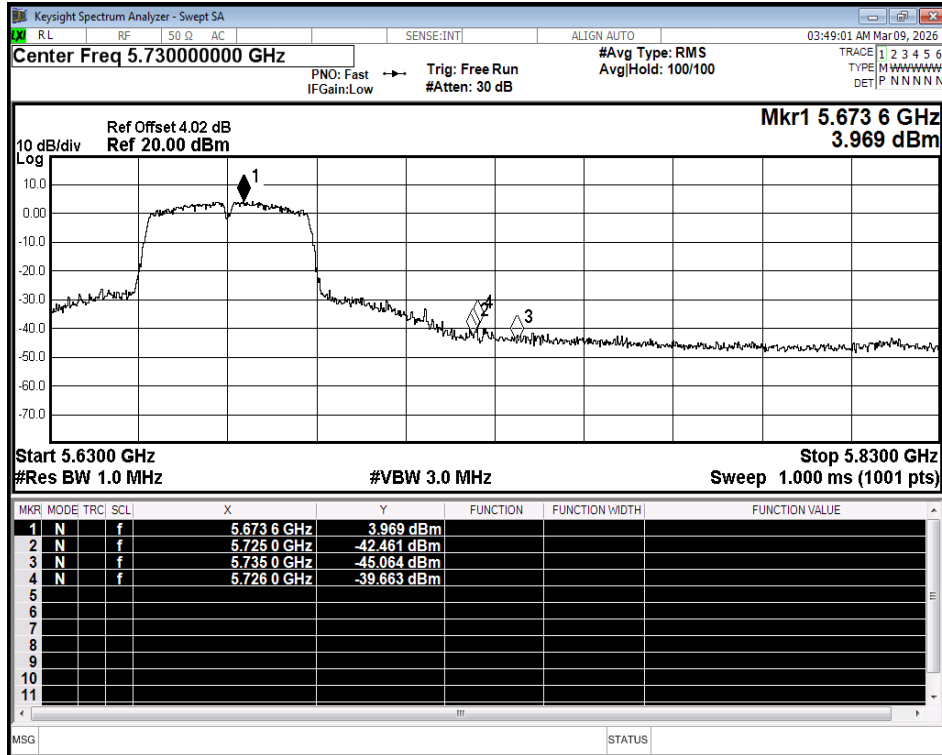
Restrict Band NVNT ac20 5700MHz Ant1 Average



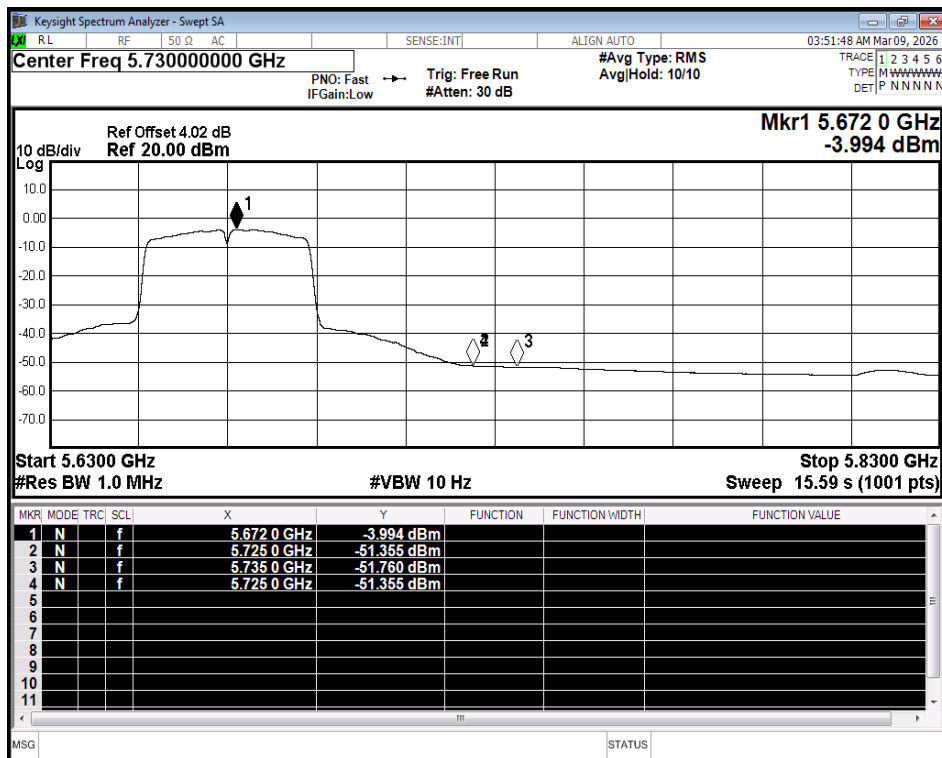
Restrict Band NVNT ac40 5510MHz Ant1 Peak



Restrict Band NVNT ac40 5510MHz Ant1 Average



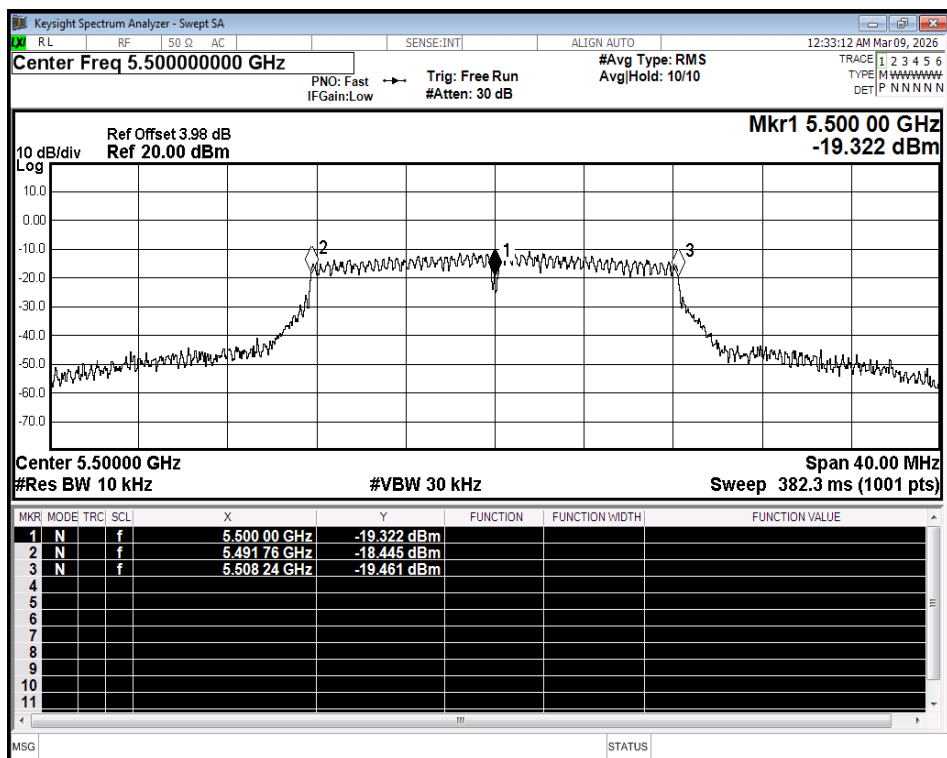
Restrict Band NVNT ac40 5670MHz Ant1 Peak



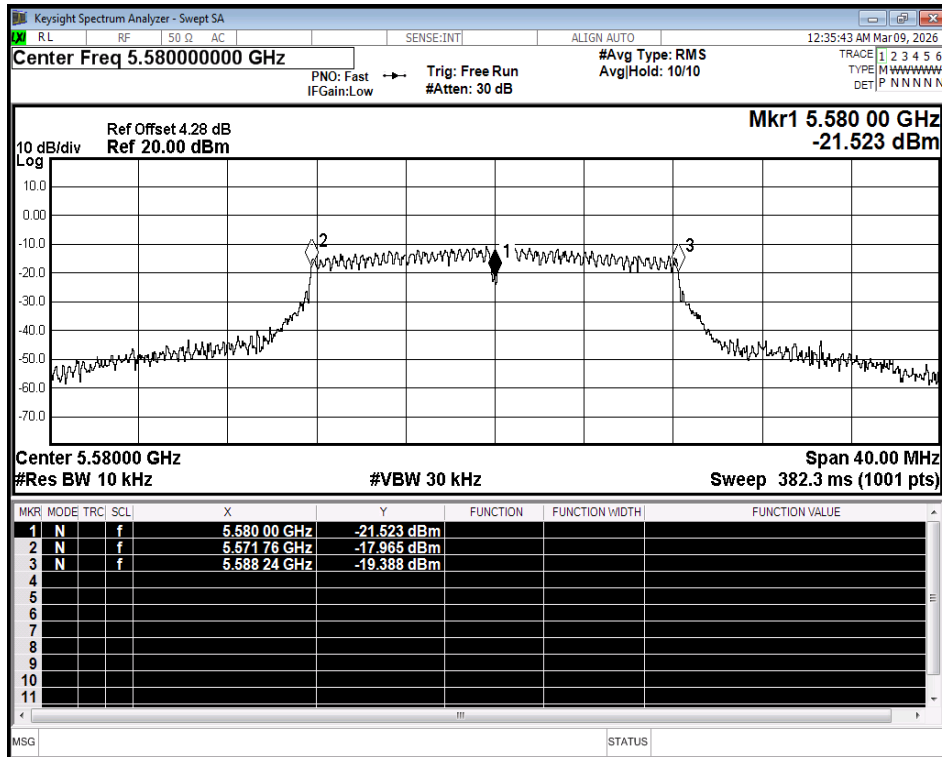
Restrict Band NVNT ac40 5670MHz Ant1 Average

5 Frequency Stability

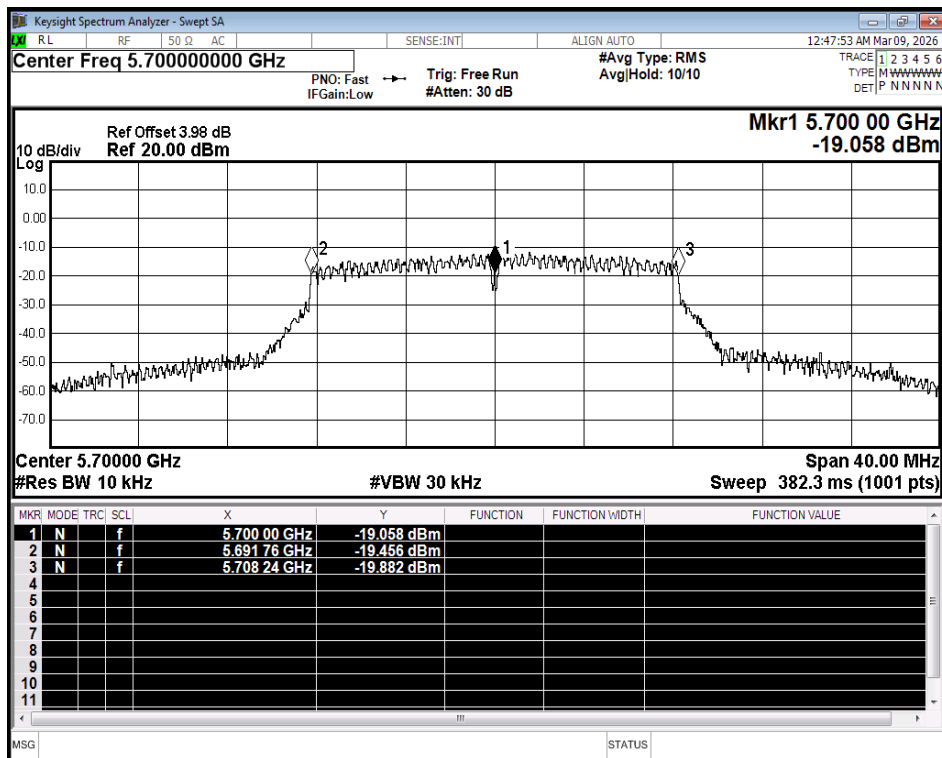
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5500	0	0	25	Pass
NVNT	a	5580	Ant1	5580	0	0	25	Pass
NVNT	a	5700	Ant1	5700	0	0	25	Pass
NVNT	n20	5500	Ant1	5500.02	20000	3.64	25	Pass
NVNT	n20	5580	Ant1	5580.02	20000	3.58	25	Pass
NVNT	n20	5700	Ant1	5700.02	20000	3.51	25	Pass
NVNT	n40	5510	Ant1	5510.04	40000	7.26	25	Pass
NVNT	n40	5550	Ant1	5550	0	0	25	Pass
NVNT	n40	5670	Ant1	5670	0	0	25	Pass
NVNT	ac20	5500	Ant1	5500	0	0	25	Pass
NVNT	ac20	5580	Ant1	5580	0	0	25	Pass
NVNT	ac20	5700	Ant1	5700.02	20000	3.51	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



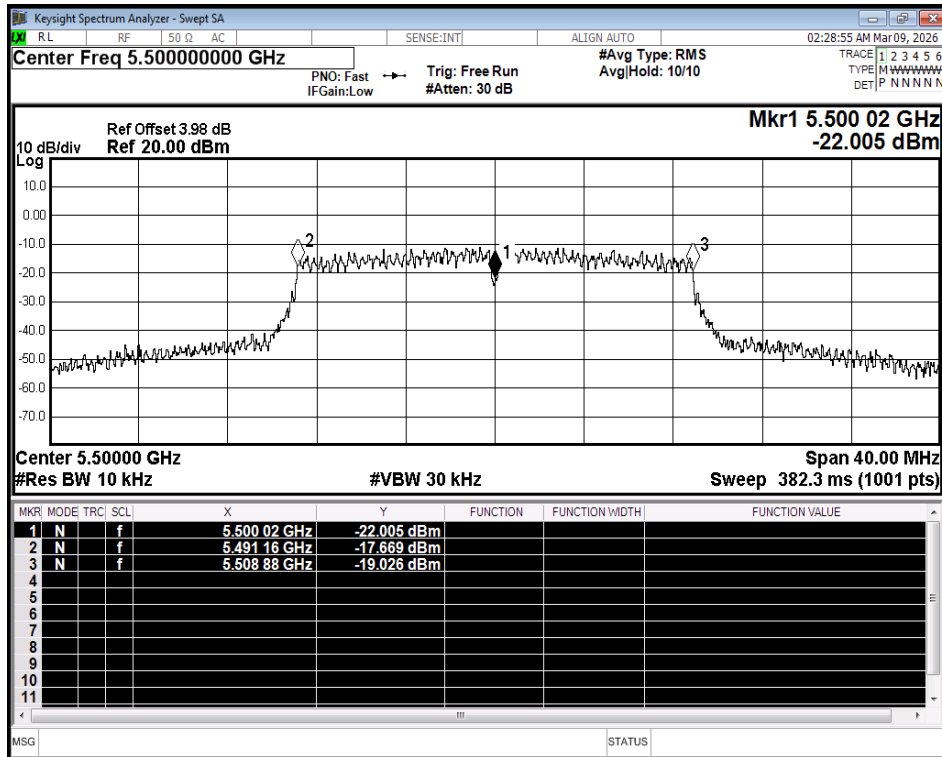
Freq. Stability NVNT a 5500MHz Ant1



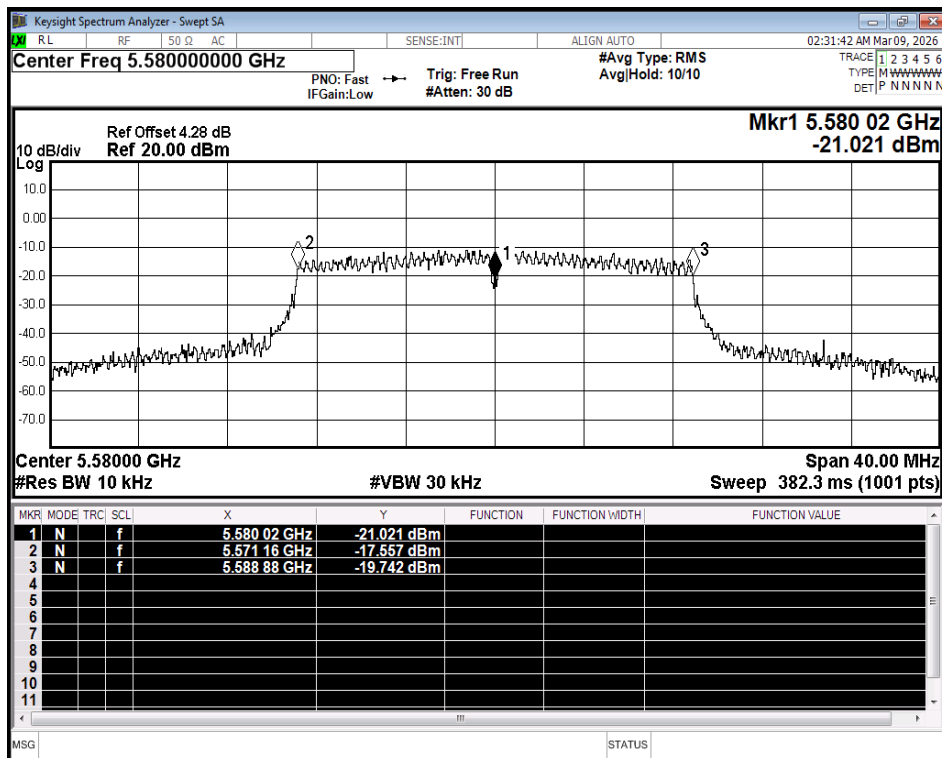
Freq. Stability NVNT a 5580MHz Ant1



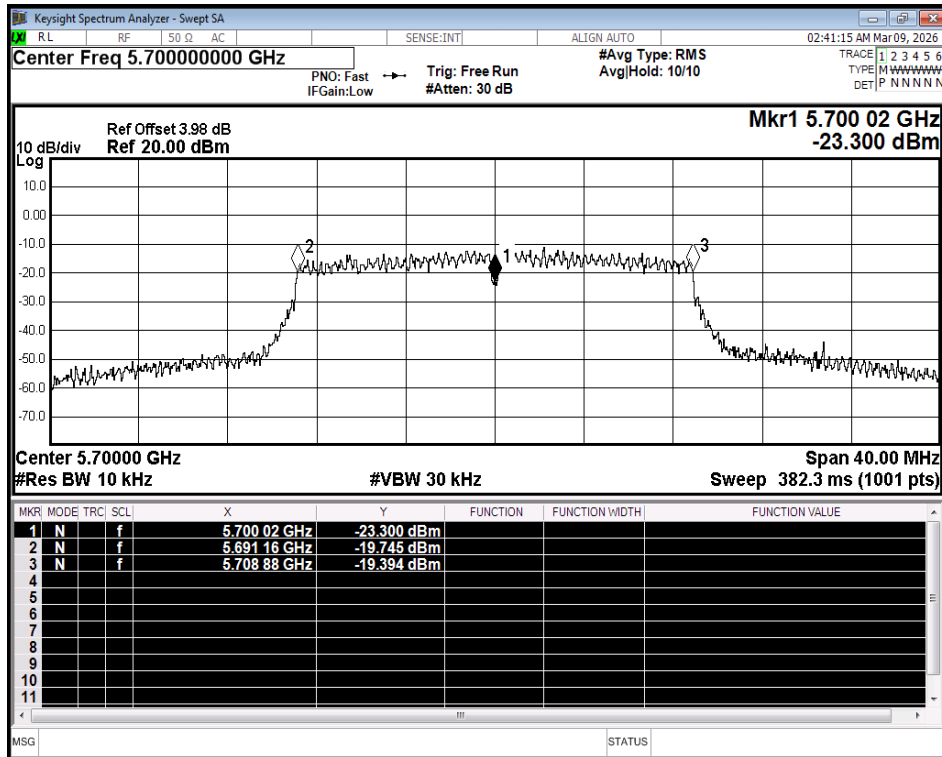
Freq. Stability NVNT a 5700MHz Ant1



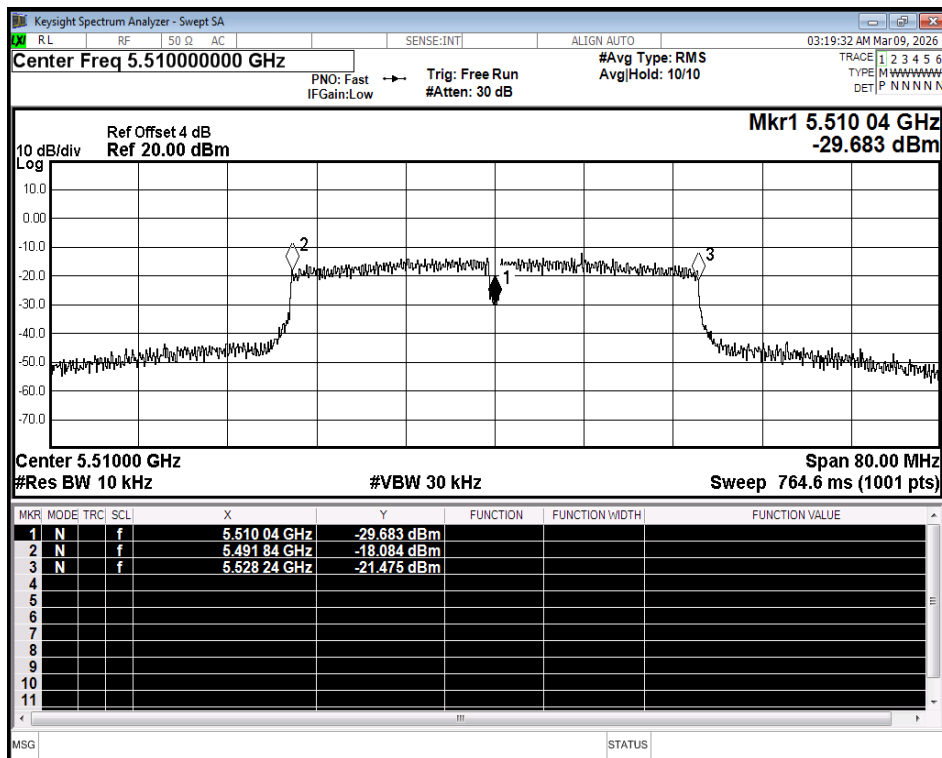
Freq. Stability NVNT n20 5500MHz Ant1



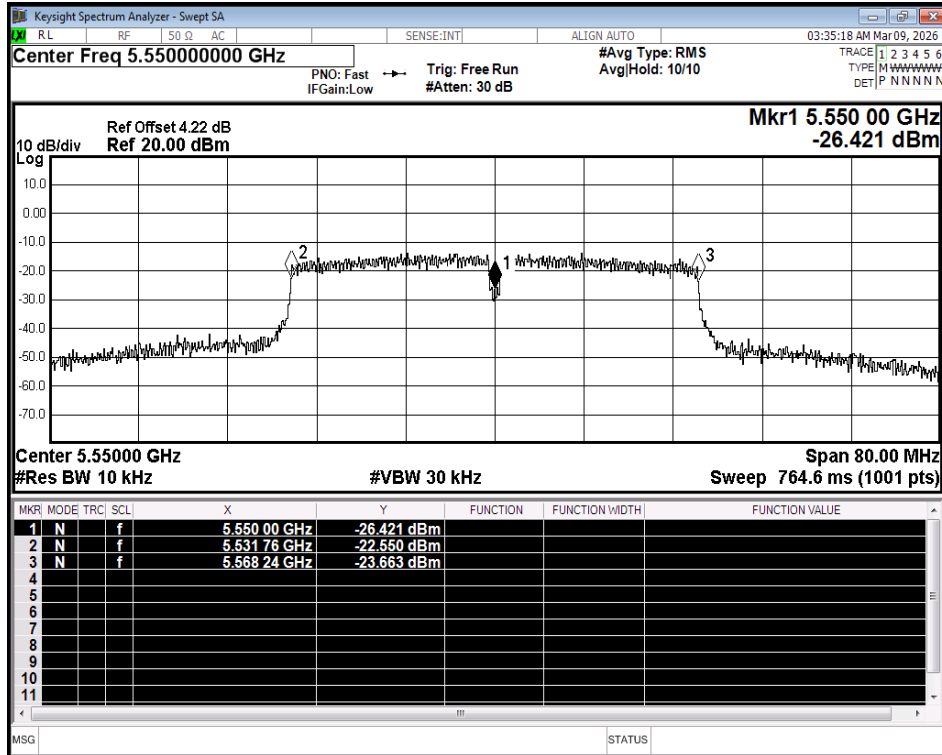
Freq. Stability NVNT n20 5580MHz Ant1



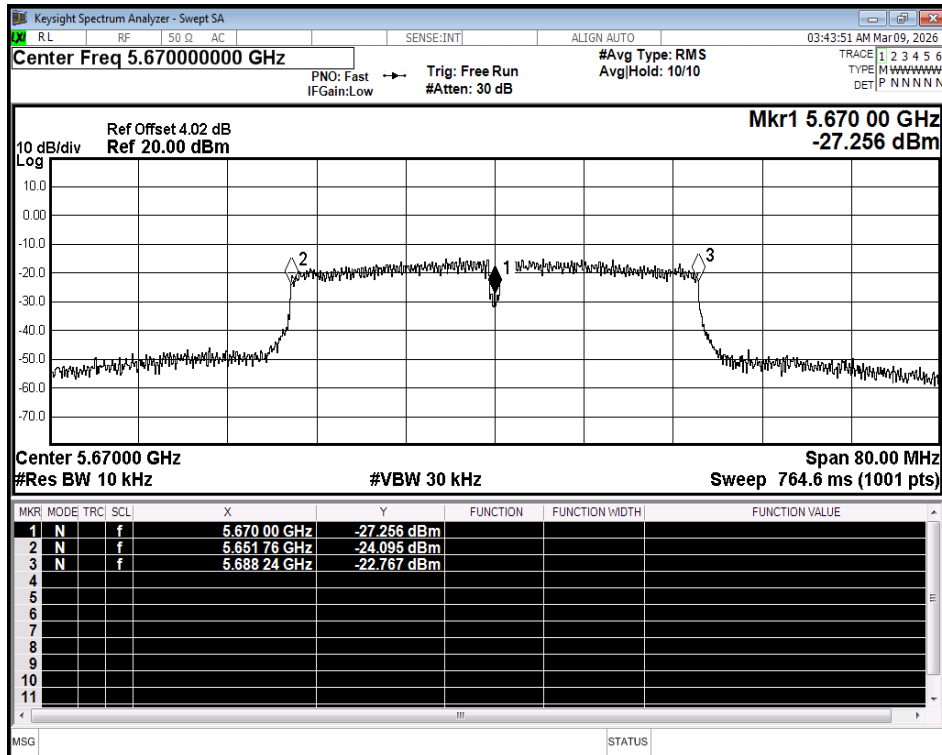
Freq. Stability NVNT n20 5700MHz Ant1



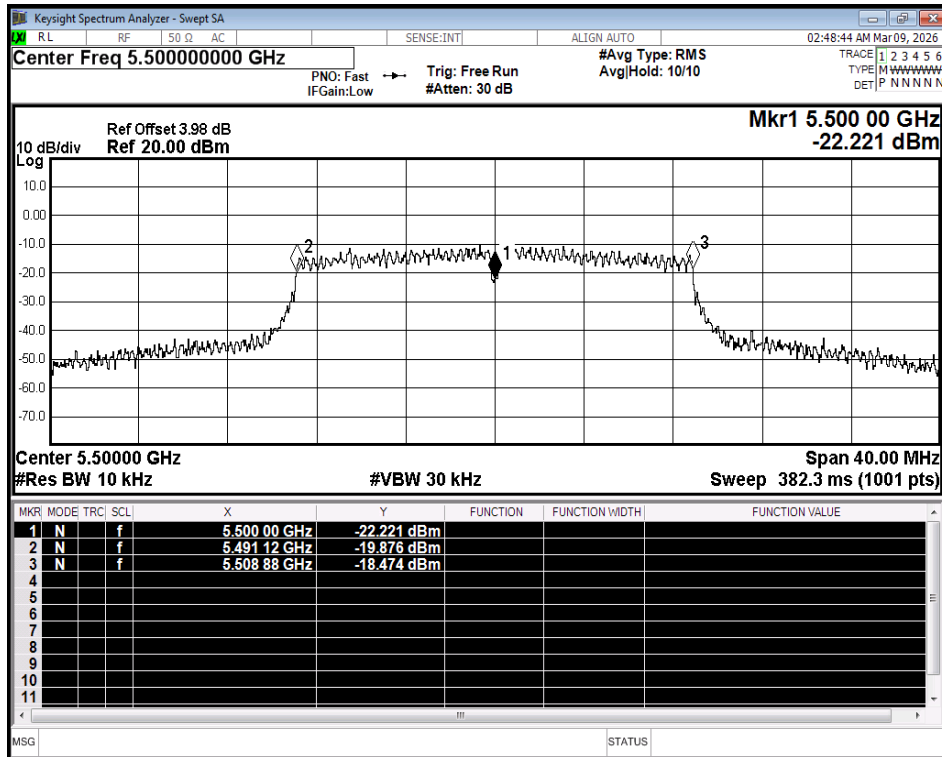
Freq. Stability NVNT n40 5510MHz Ant1



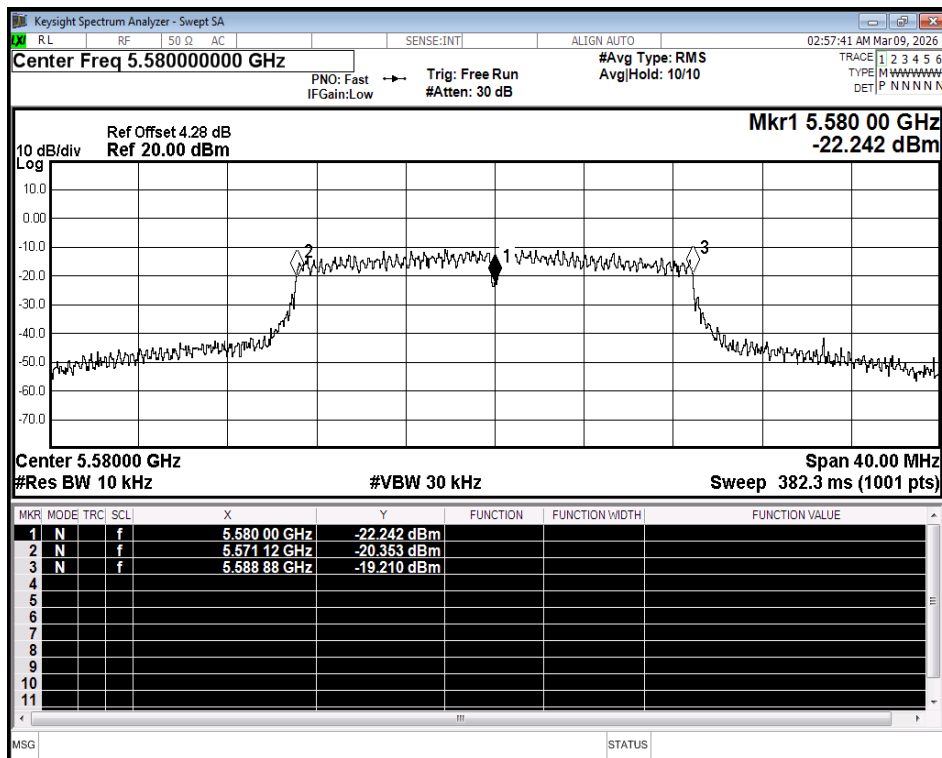
Freq. Stability NVNT n40 5550MHz Ant1



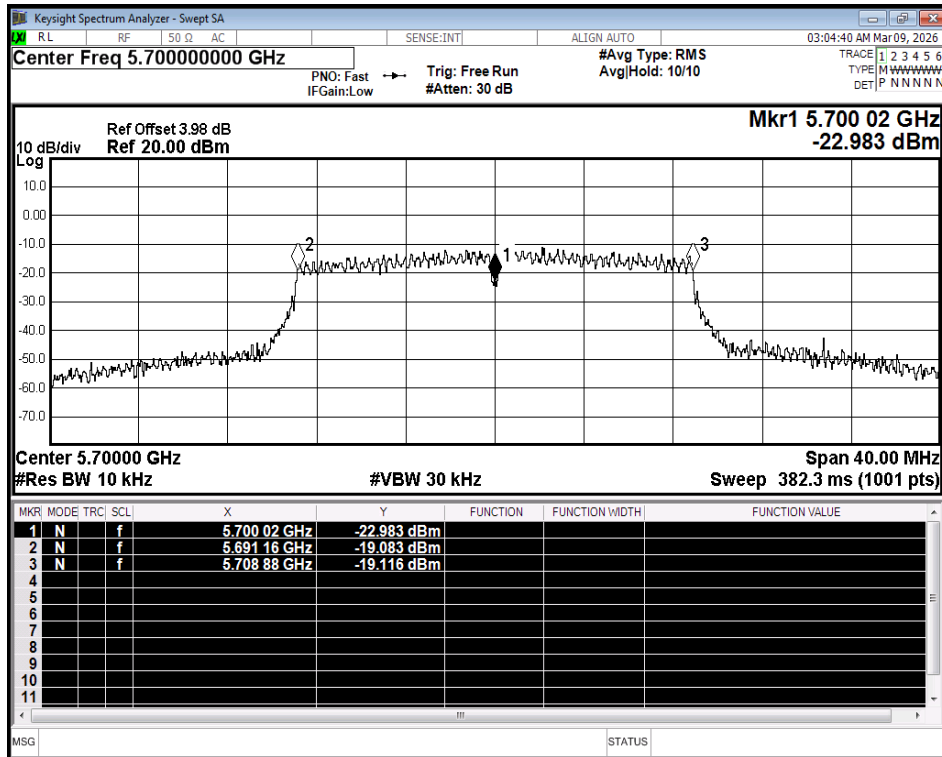
Freq. Stability NVNT n40 5670MHz Ant1



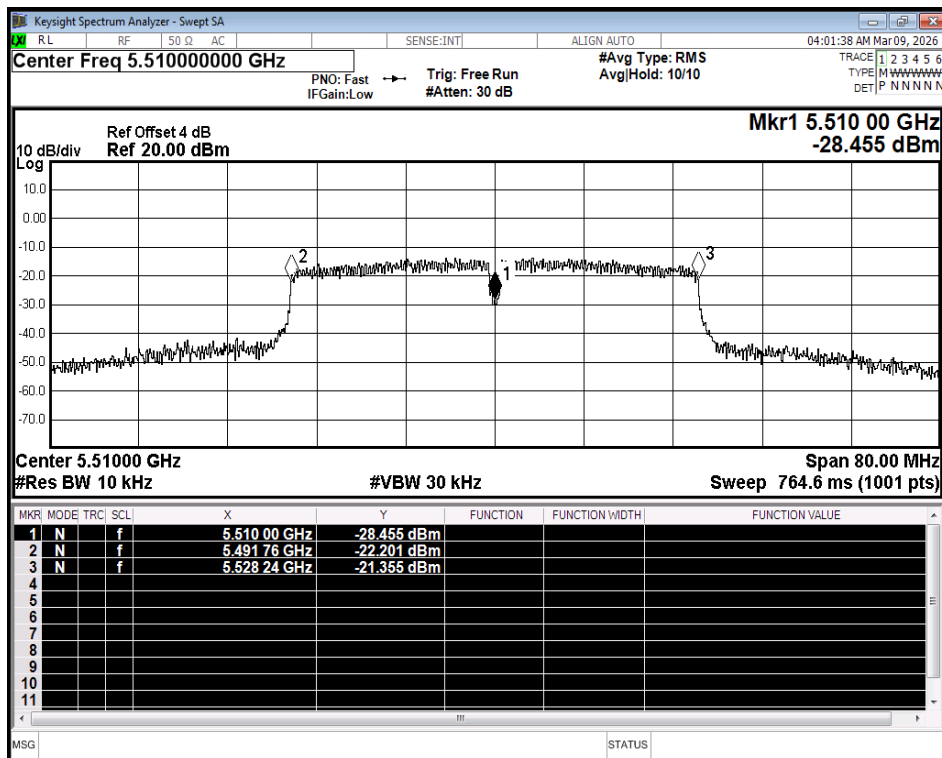
Freq. Stability NVNT ac20 5500MHz Ant1



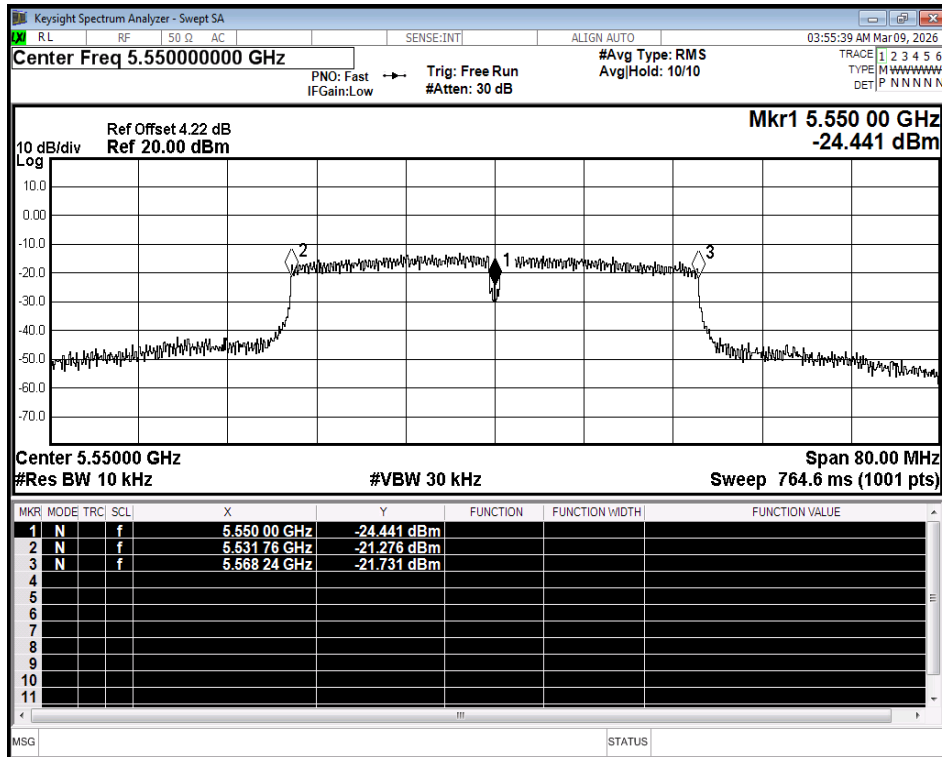
Freq. Stability NVNT ac20 5580MHz Ant1



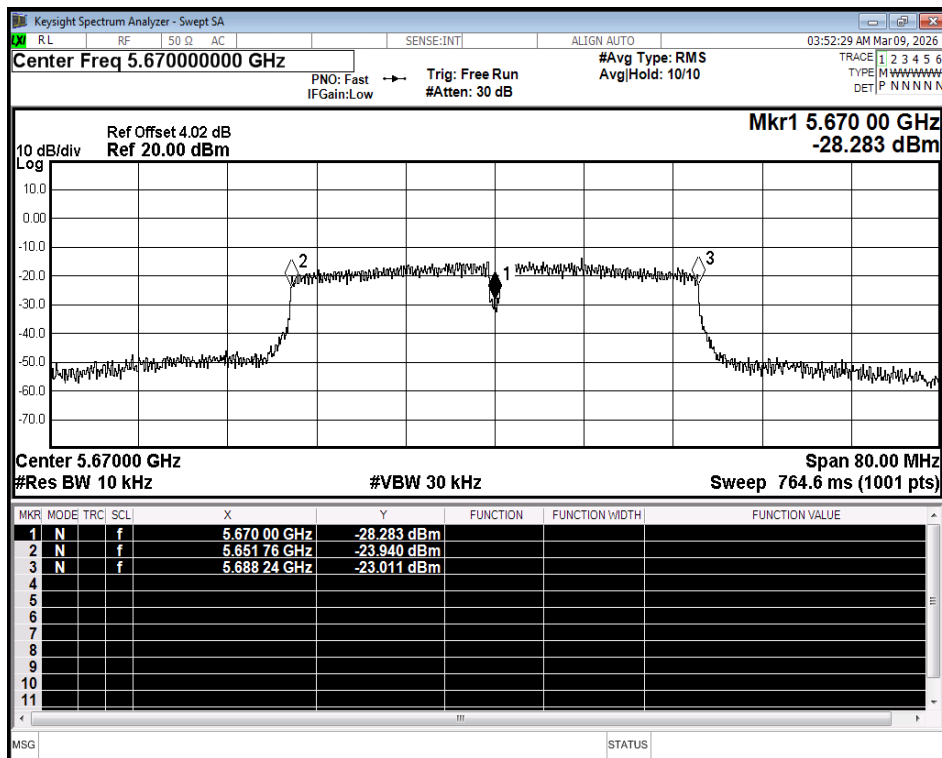
Freq. Stability NVNT ac20 5700MHz Ant1



Freq. Stability NVNT ac40 5510MHz Ant1



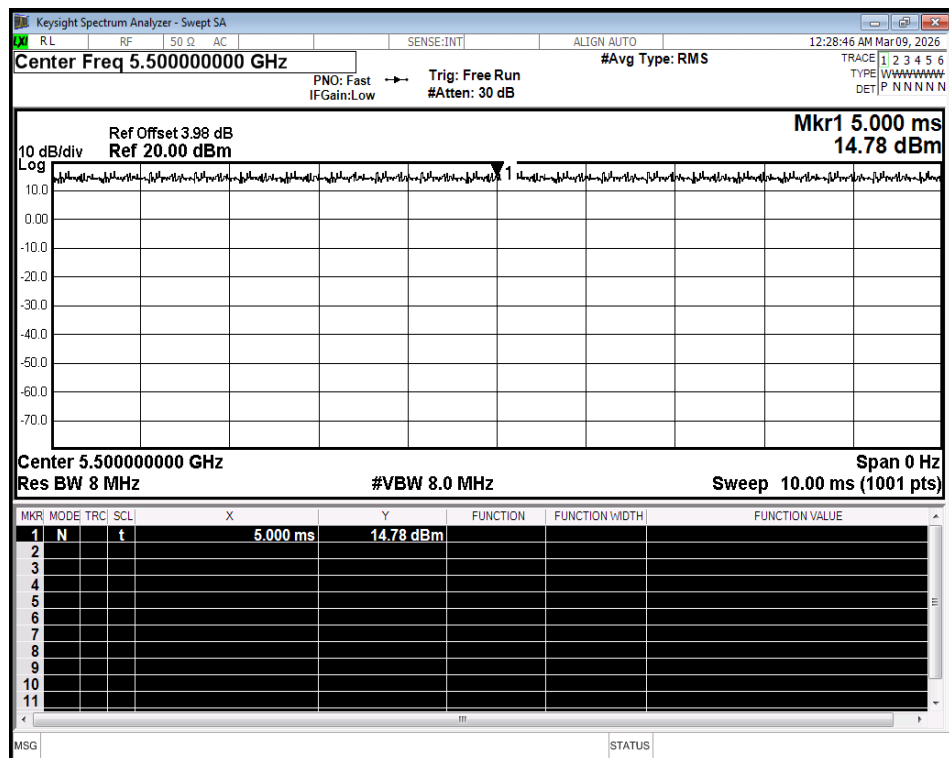
Freq. Stability NVNT ac40 5550MHz Ant1



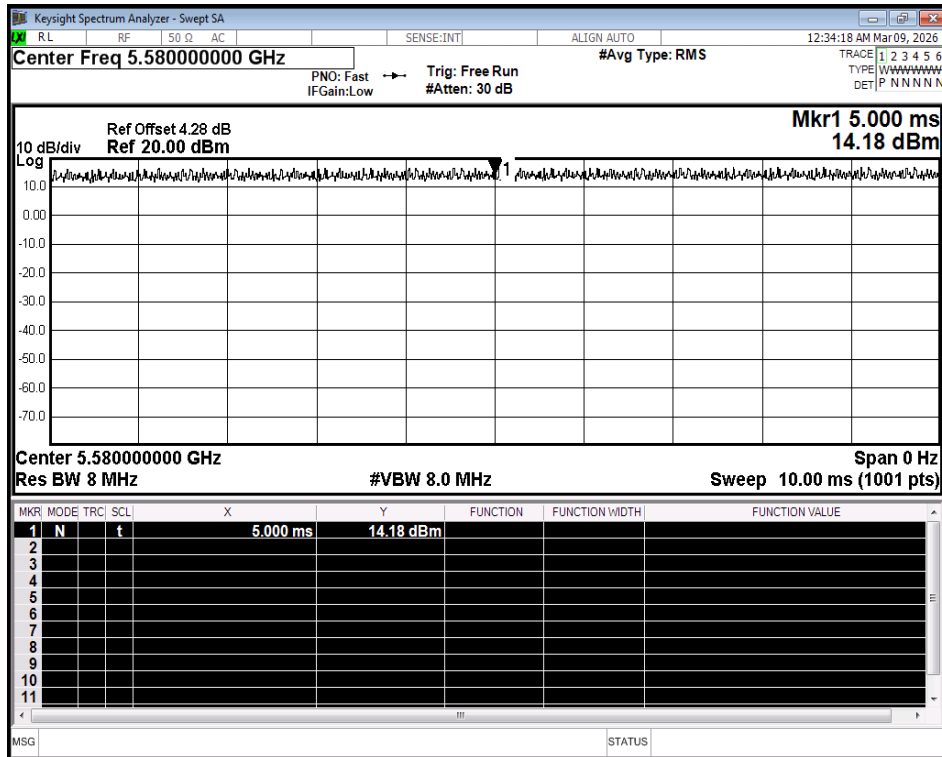
Freq. Stability NVNT ac40 5670MHz Ant1

6 Duty Cycle

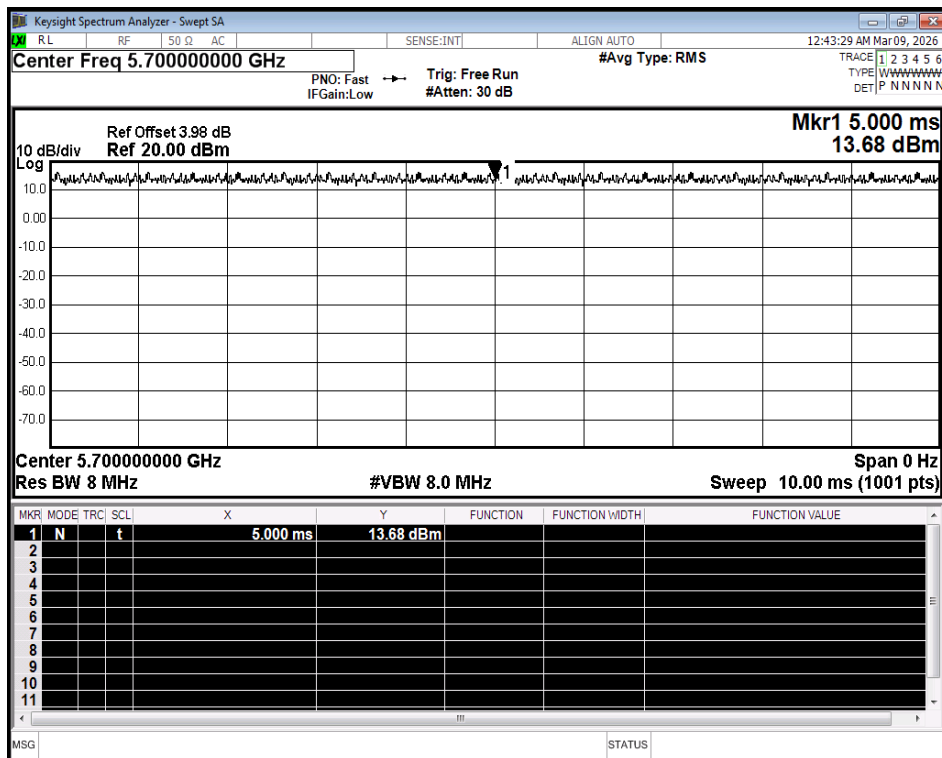
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	100	0	0
NVNT	a	5580	Ant1	100	0	0
NVNT	a	5700	Ant1	100	0	0
NVNT	n20	5500	Ant1	100	0	0
NVNT	n20	5580	Ant1	100	0	0
NVNT	n20	5700	Ant1	100	0	0
NVNT	n40	5510	Ant1	100	0	0
NVNT	n40	5550	Ant1	100	0	0
NVNT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



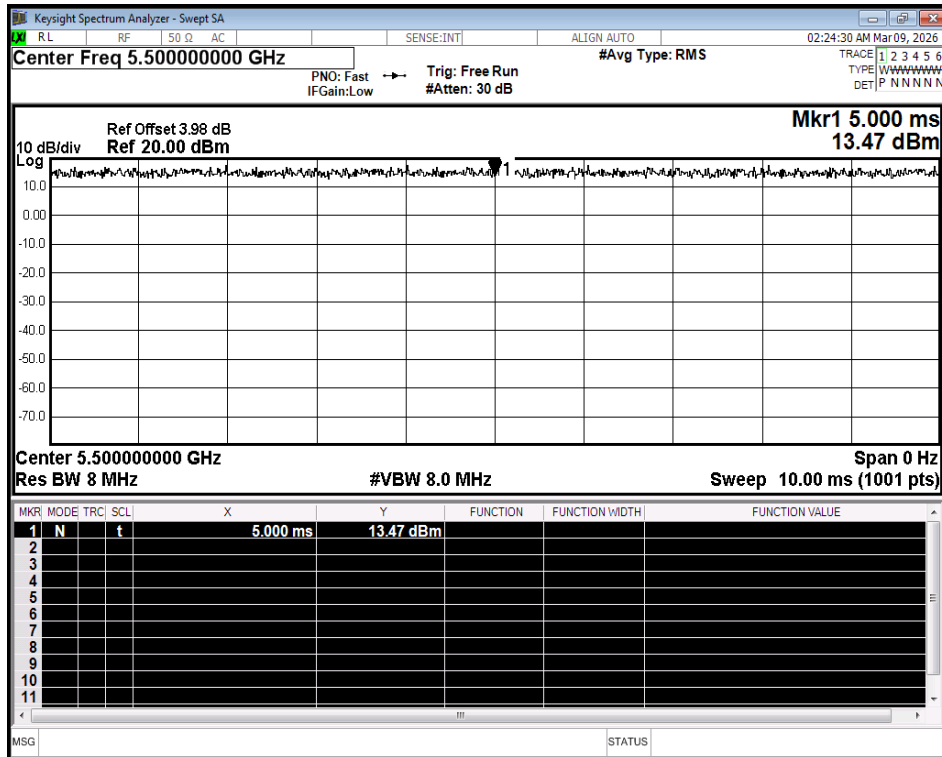
Duty Cycle NVNT a 5500MHz Ant1



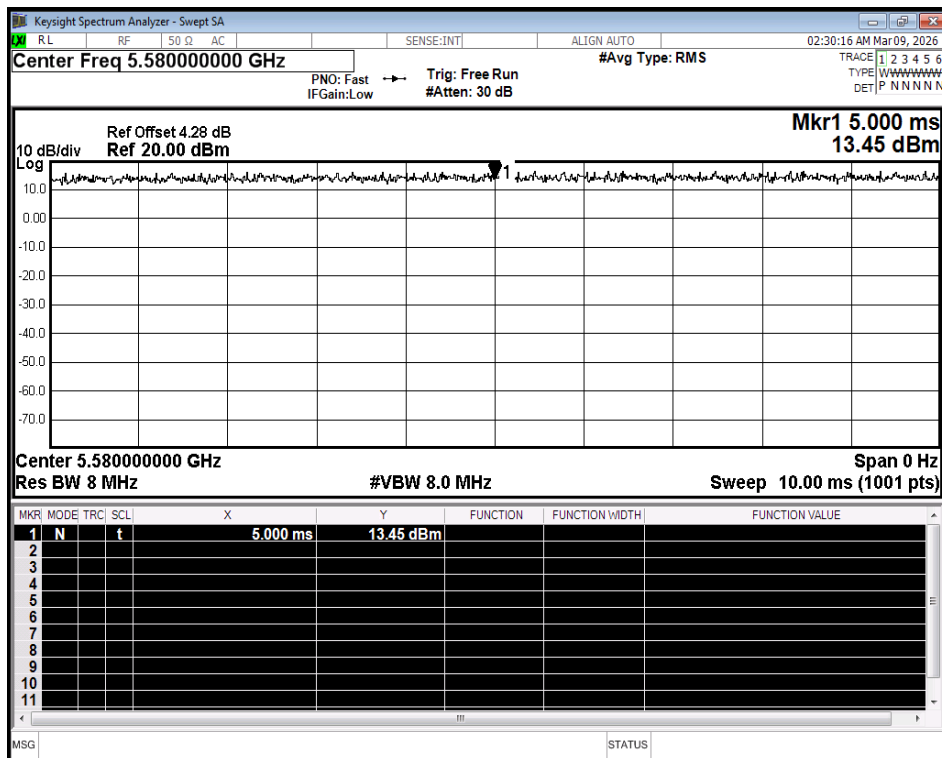
Duty Cycle NVNT a 5580MHz Ant1



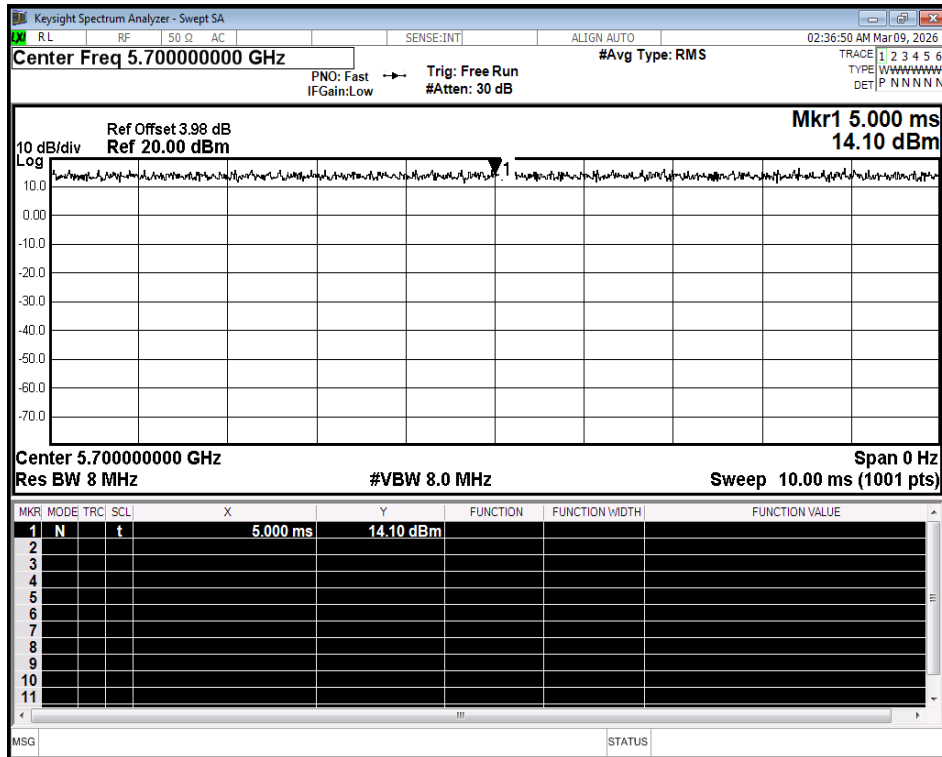
Duty Cycle NVNT a 5700MHz Ant1



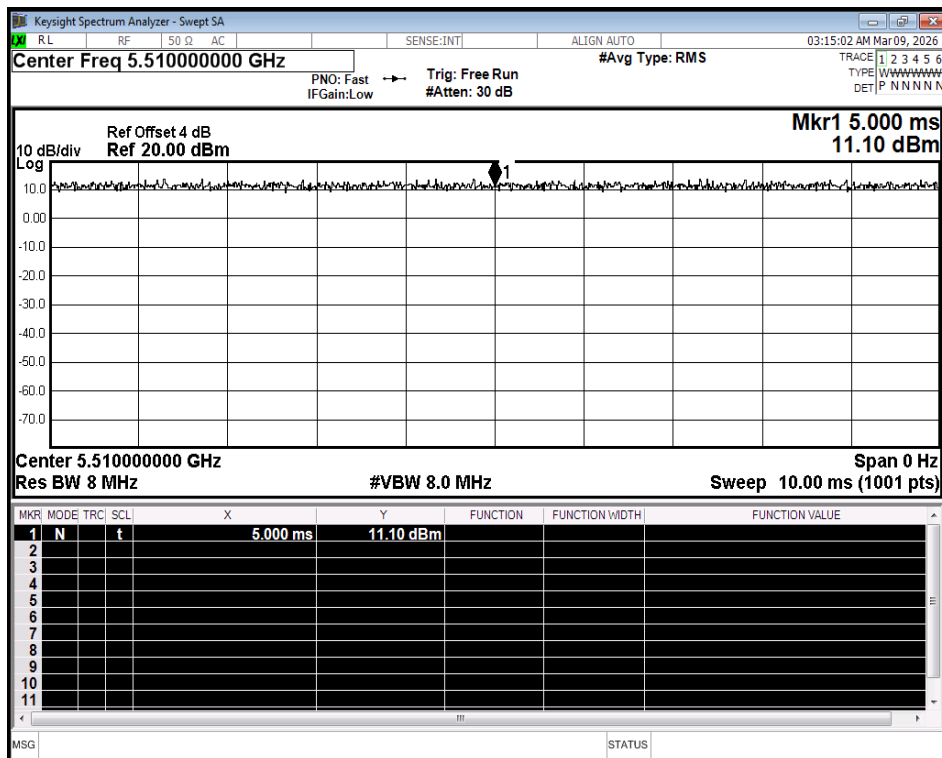
Duty Cycle NVNT n20 5500MHz Ant1



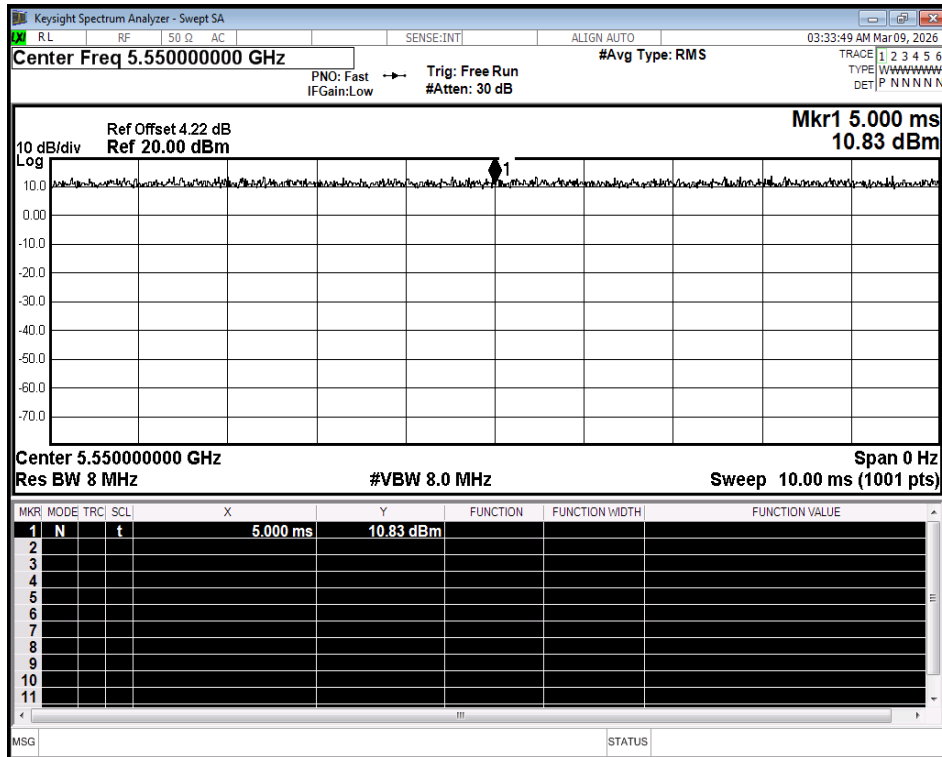
Duty Cycle NVNT n20 5580MHz Ant1



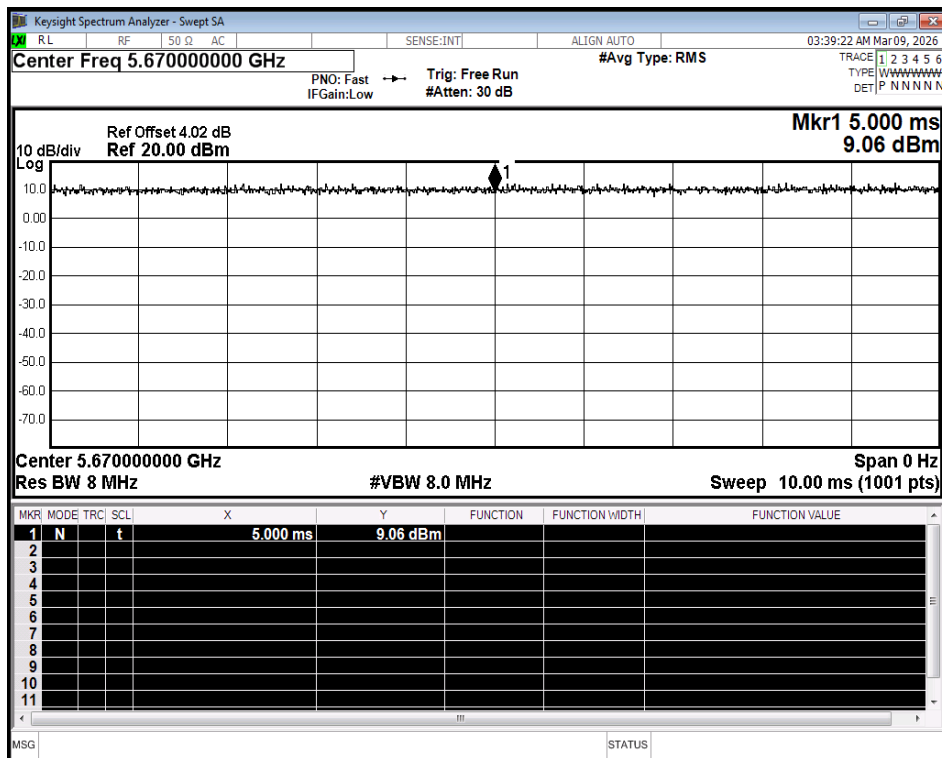
Duty Cycle NVNT n20 5700MHz Ant1



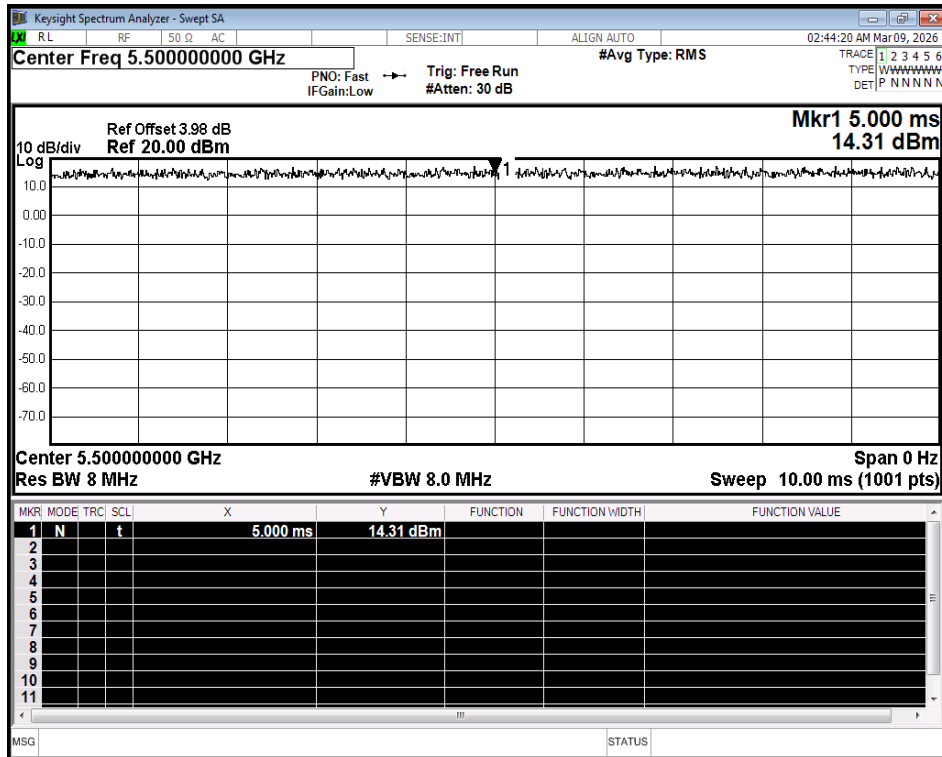
Duty Cycle NVNT n40 5510MHz Ant1



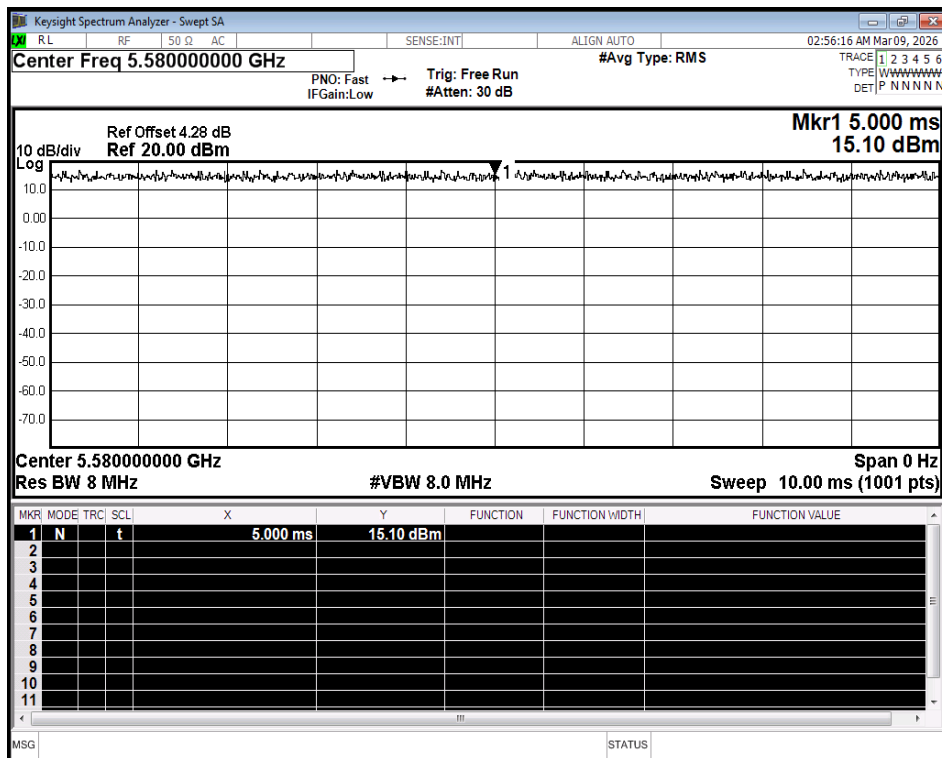
Duty Cycle NVNT n40 5550MHz Ant1



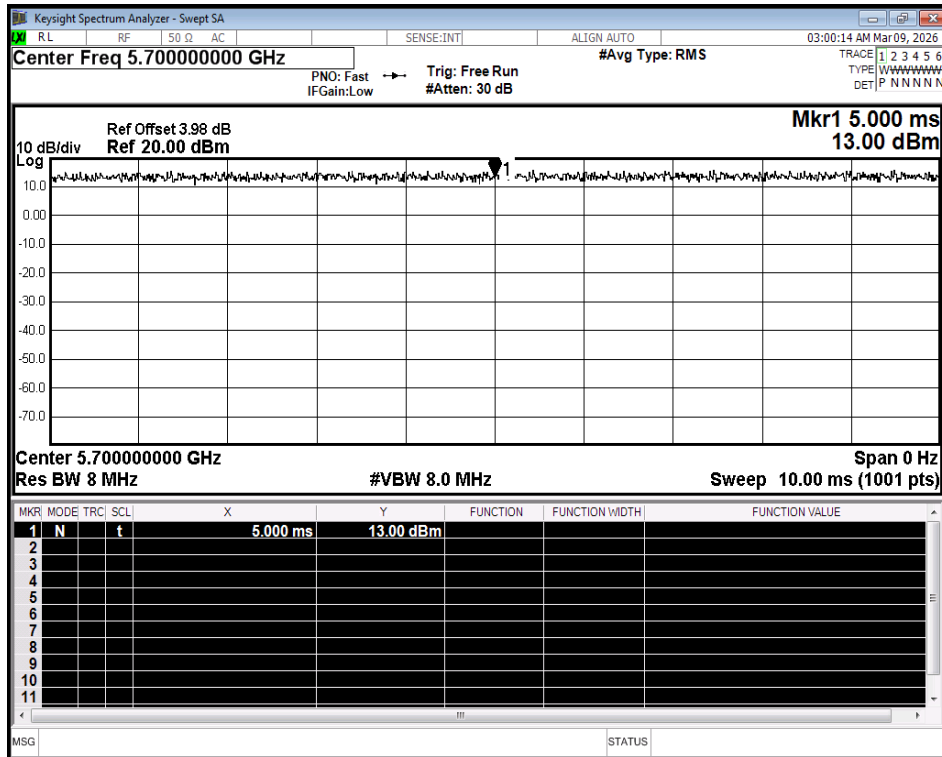
Duty Cycle NVNT n40 5670MHz Ant1



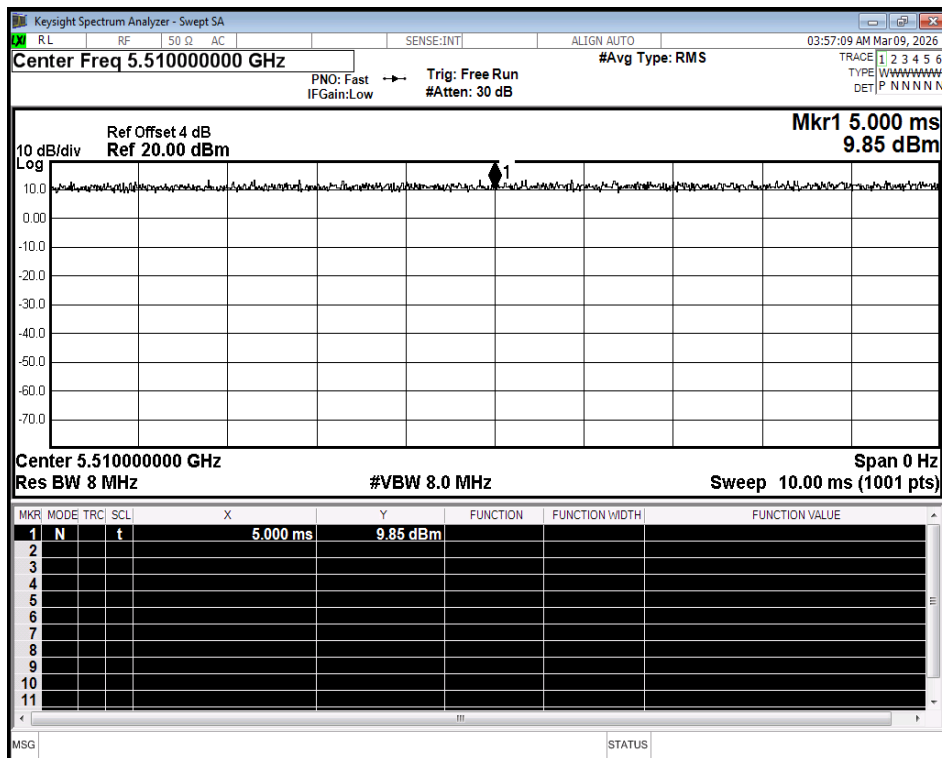
Duty Cycle NVNT ac20 5500MHz Ant1



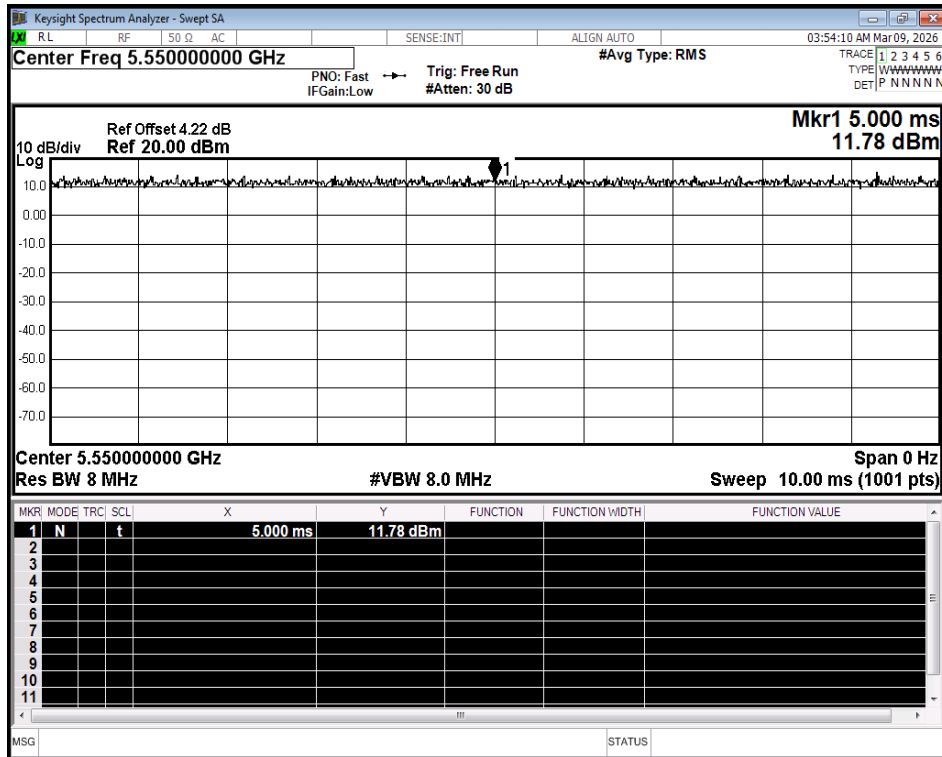
Duty Cycle NVNT ac20 5580MHz Ant1



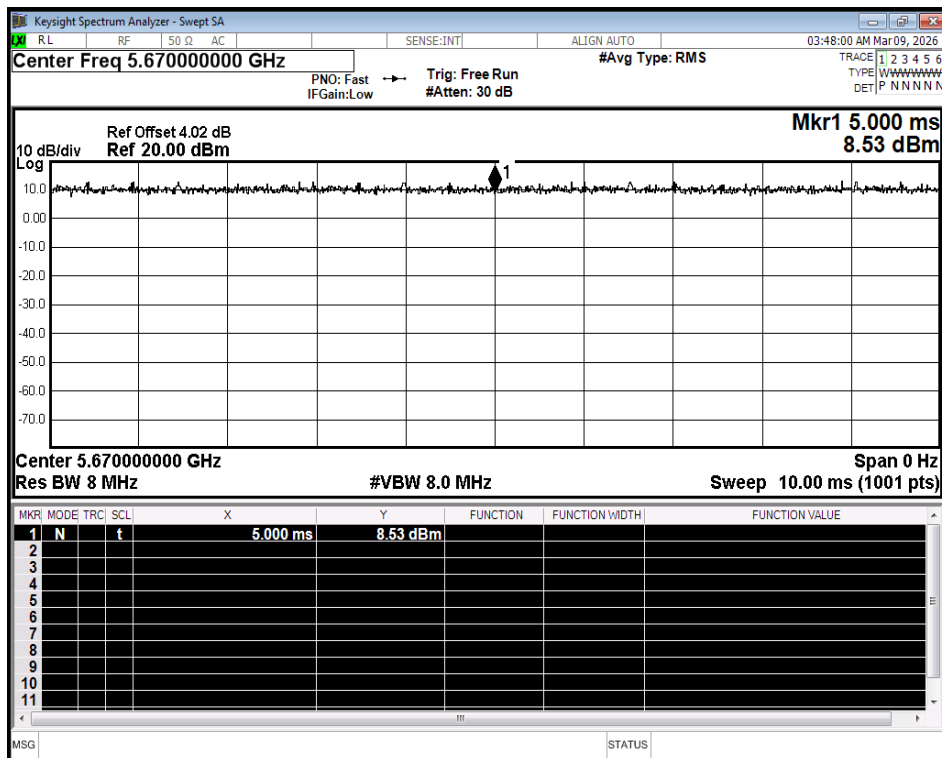
Duty Cycle NVNT ac20 5700MHz Ant1



Duty Cycle NVNT ac40 5510MHz Ant1



Duty Cycle NVNT ac40 5550MHz Ant1



Duty Cycle NVNT ac40 5670MHz Ant1