

FCC Appendix RF Test Data for 5.3GWIFI

Product Name: AI camera

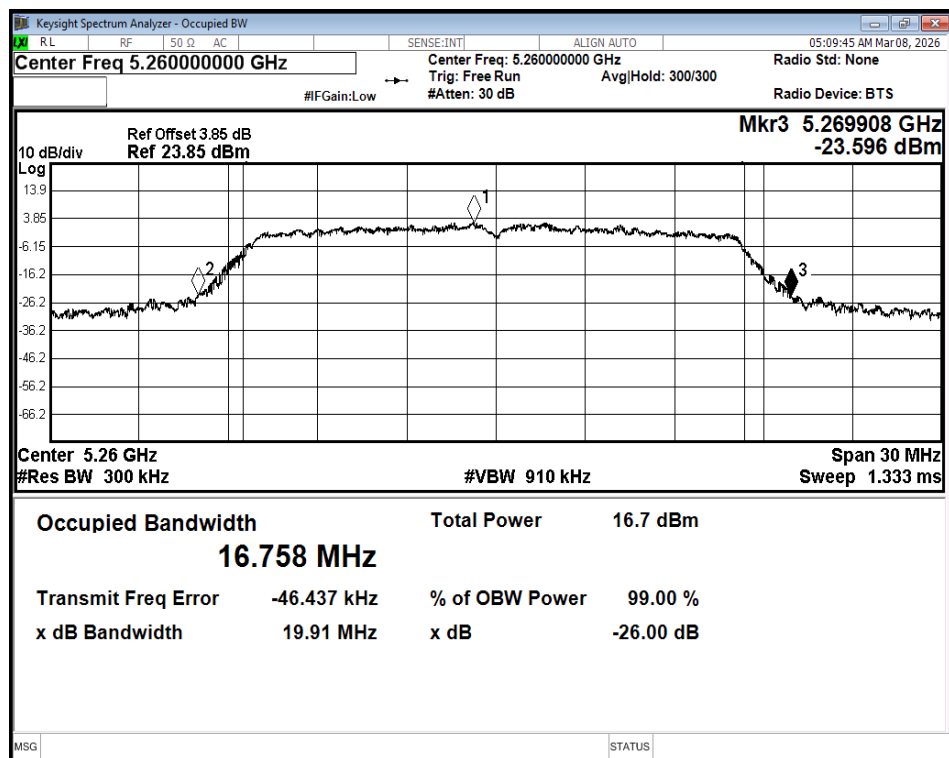
Test Model: K7 max, K8 max

Environmental Conditions

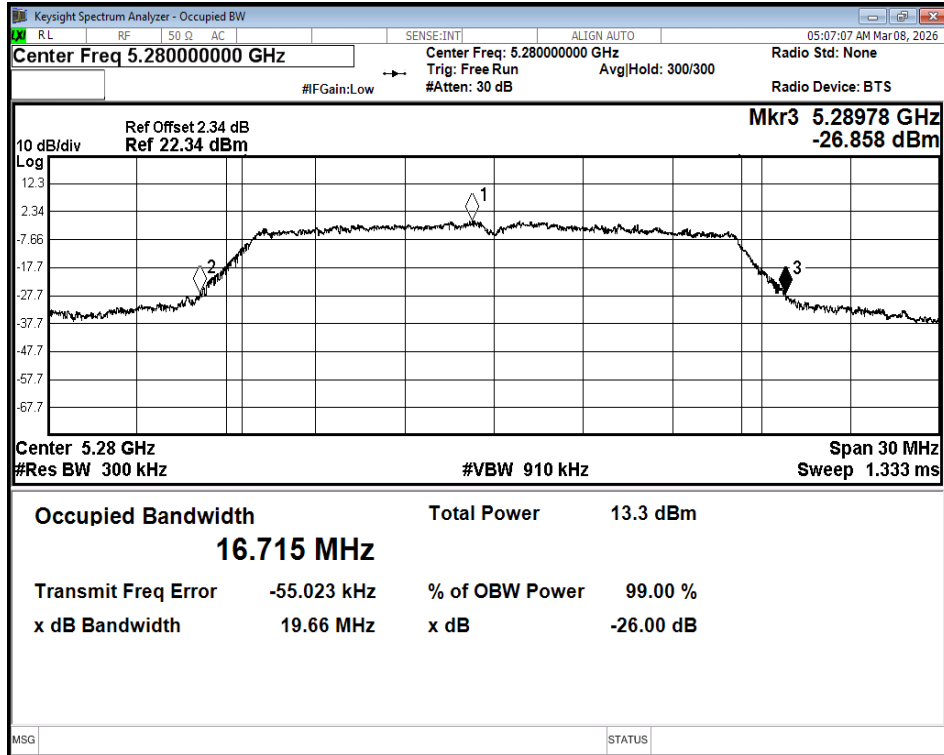
Temperature:	23.4°C
Relative Humidity:	54.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -26dB Bandwidth

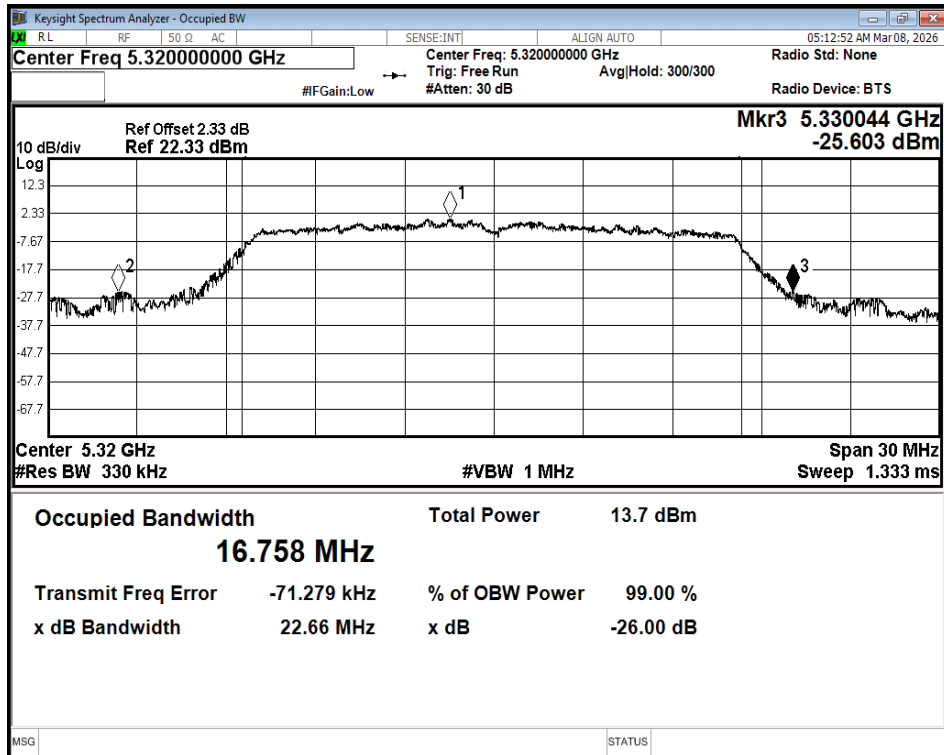
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	19.91
NVNT	a	5280	Ant1	19.66
NVNT	a	5320	Ant1	22.66
NVNT	n20	5260	Ant1	19.93
NVNT	n20	5280	Ant1	19.91
NVNT	n20	5320	Ant1	19.9
NVNT	n40	5270	Ant1	40.15
NVNT	n40	5310	Ant1	48.6
NVNT	ac20	5260	Ant1	20.36
NVNT	ac20	5280	Ant1	19.93
NVNT	ac20	5320	Ant1	22.36
NVNT	ac40	5270	Ant1	40.29
NVNT	ac40	5310	Ant1	41.04



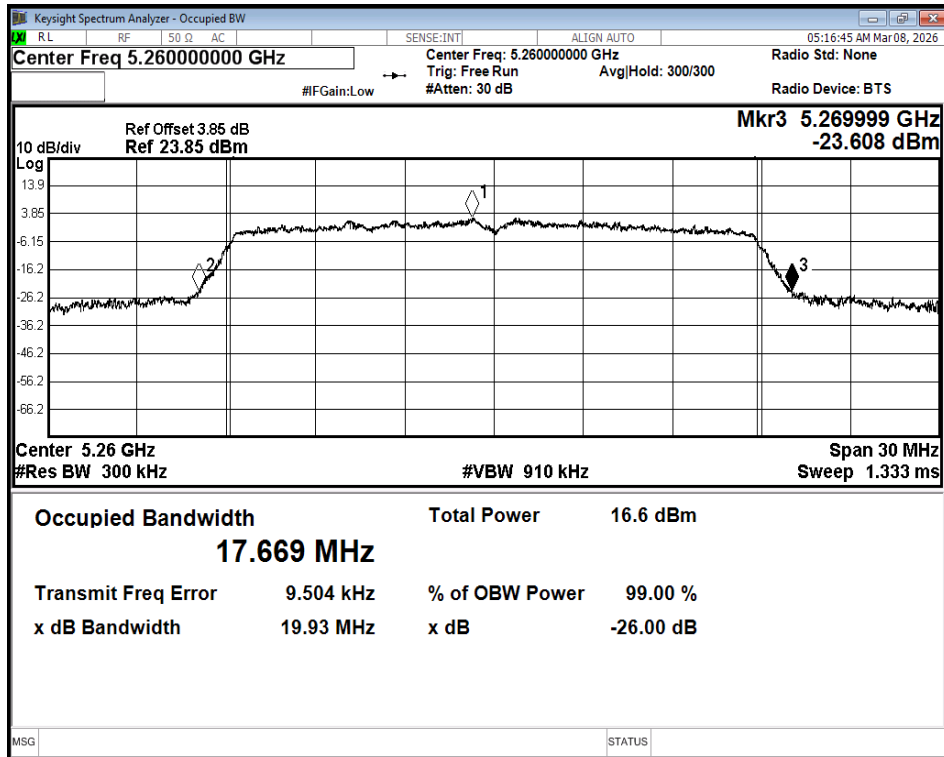
-26dB Bandwidth NVNT a 5260MHz Ant1



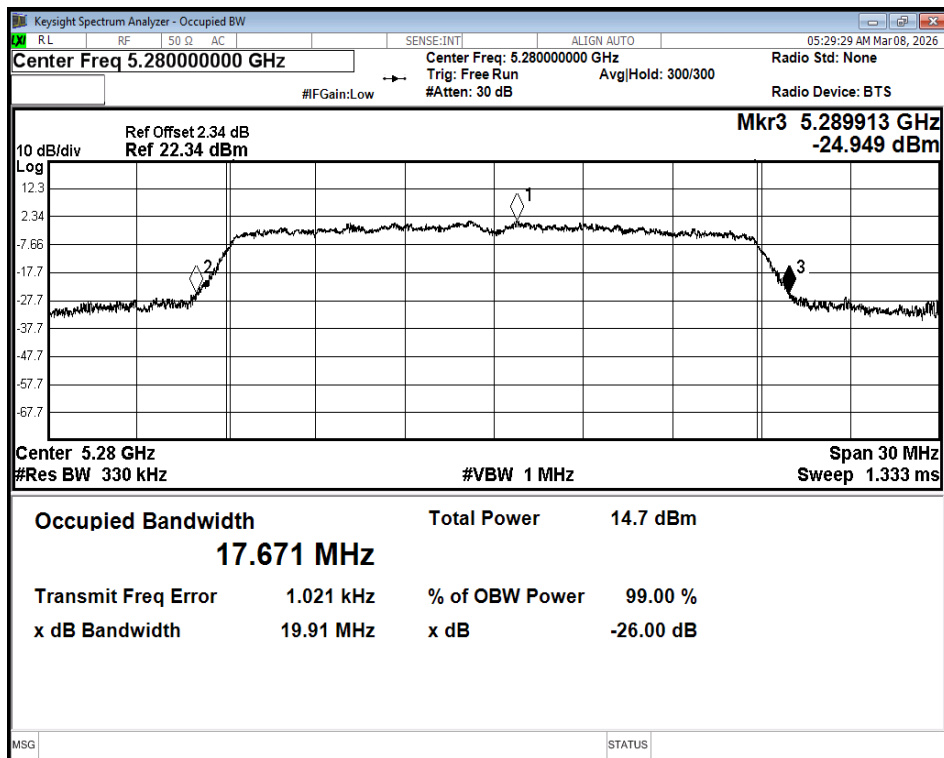
-26dB Bandwidth NVNT a 5280MHz Ant1



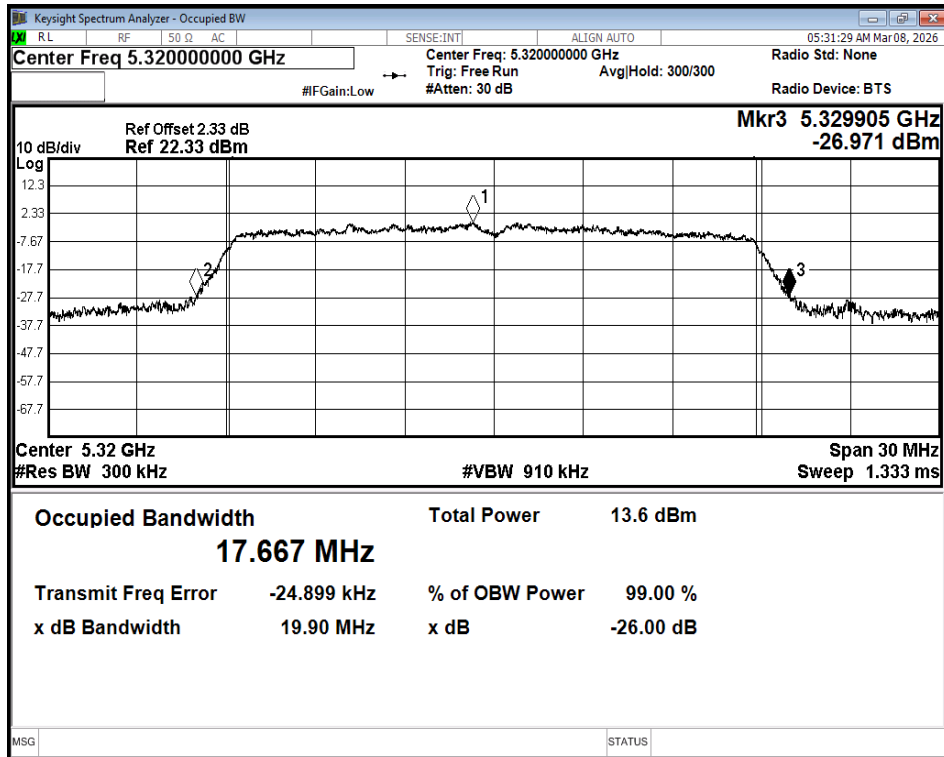
-26dB Bandwidth NVNT a 5320MHz Ant1



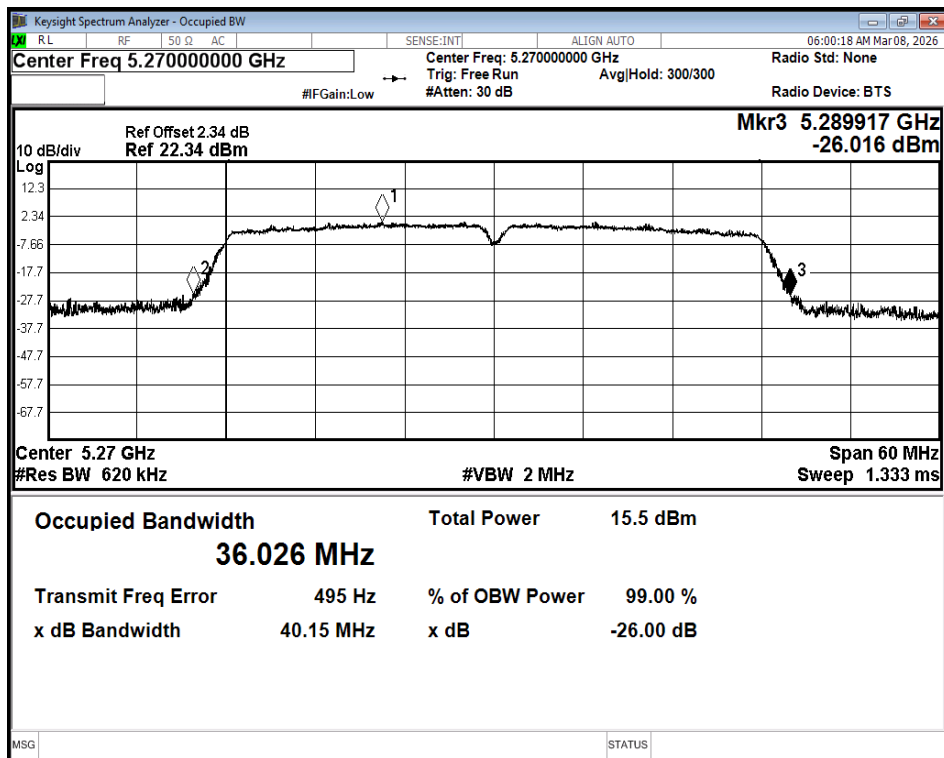
-26dB Bandwidth NVNT n20 5260MHz Ant1



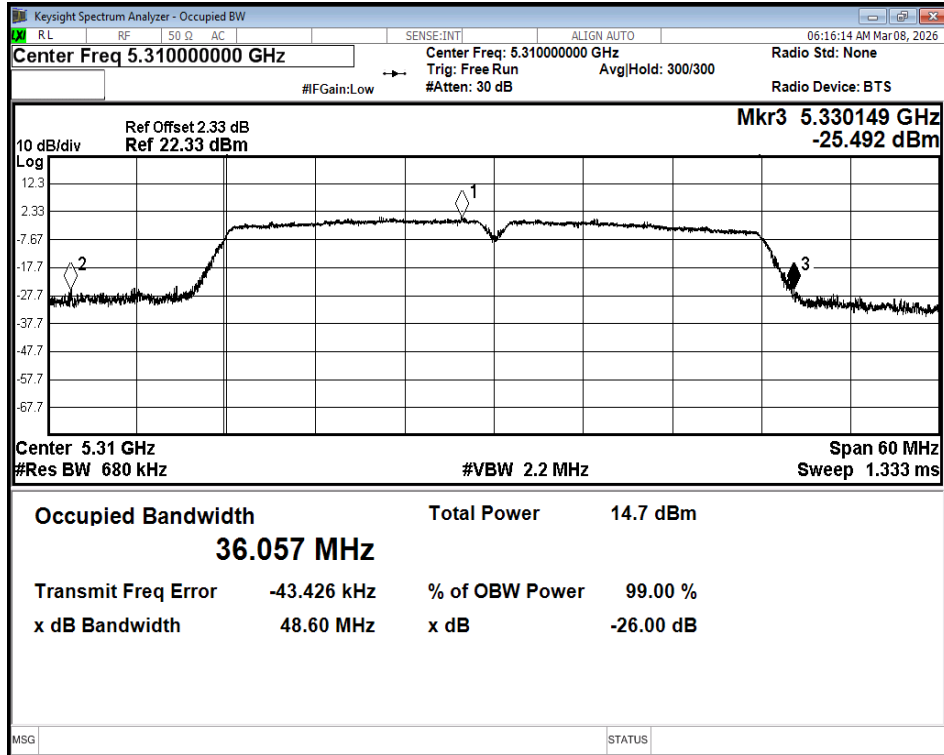
-26dB Bandwidth NVNT n20 5280MHz Ant1



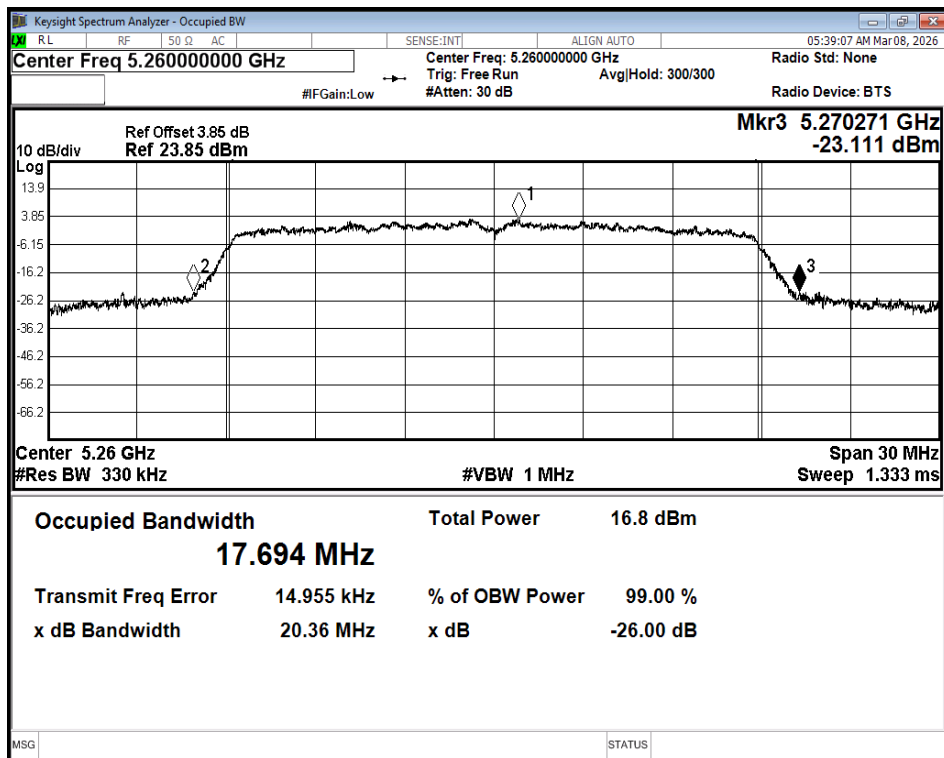
-26dB Bandwidth NVNT n20 5320MHz Ant1



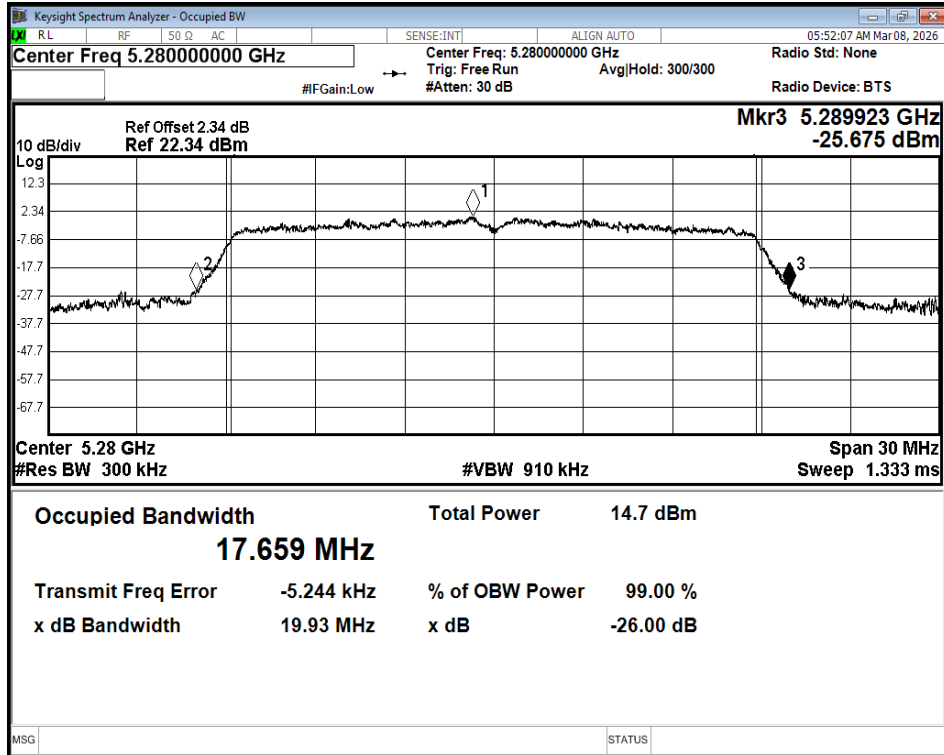
-26dB Bandwidth NVNT n40 5270MHz Ant1



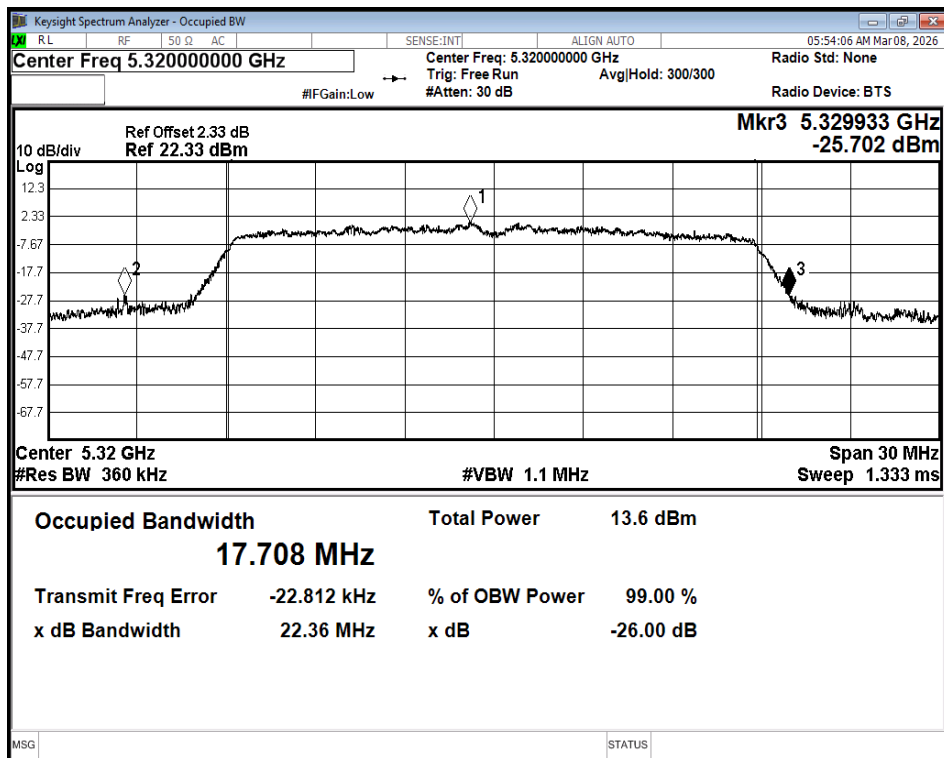
-26dB Bandwidth NVNT n40 5310MHz Ant1



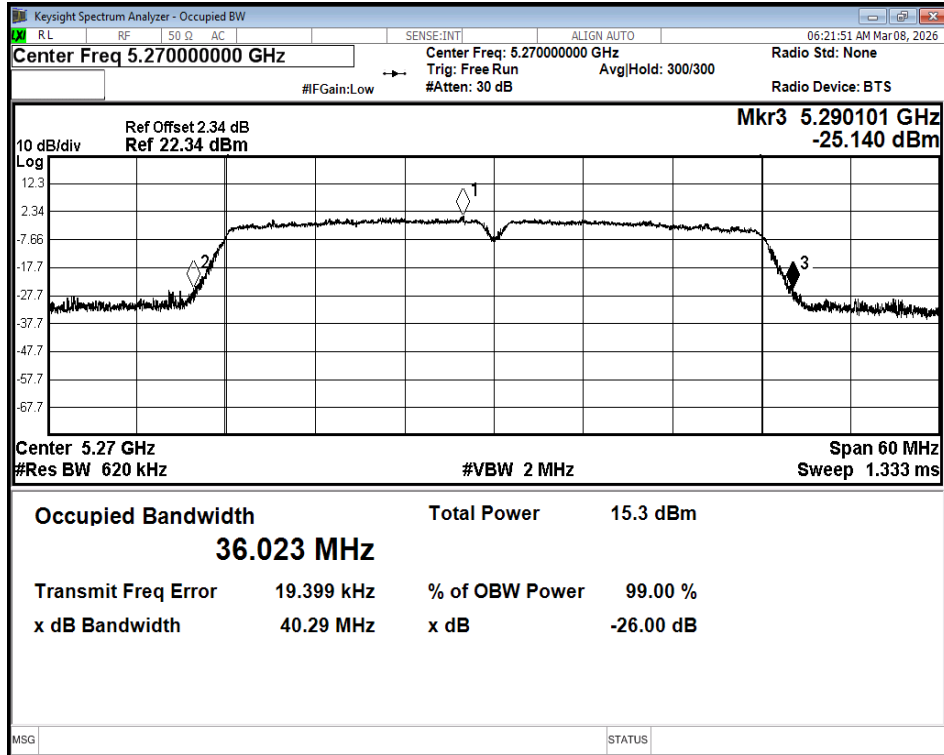
-26dB Bandwidth NVNT ac20 5260MHz Ant1



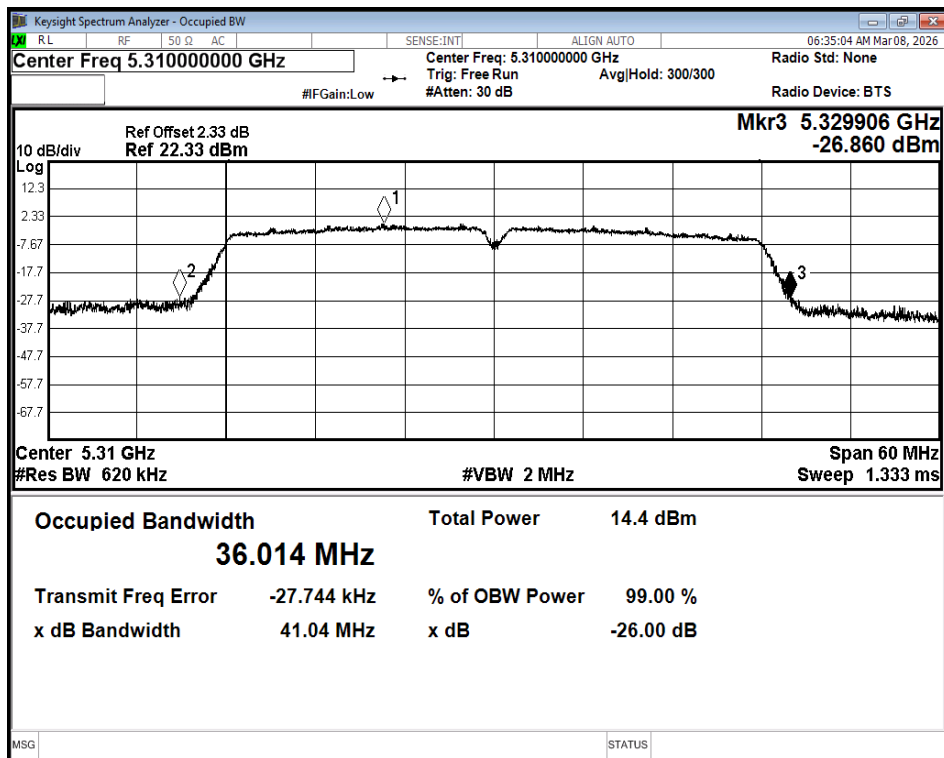
-26dB Bandwidth NVNT ac20 5280MHz Ant1



-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



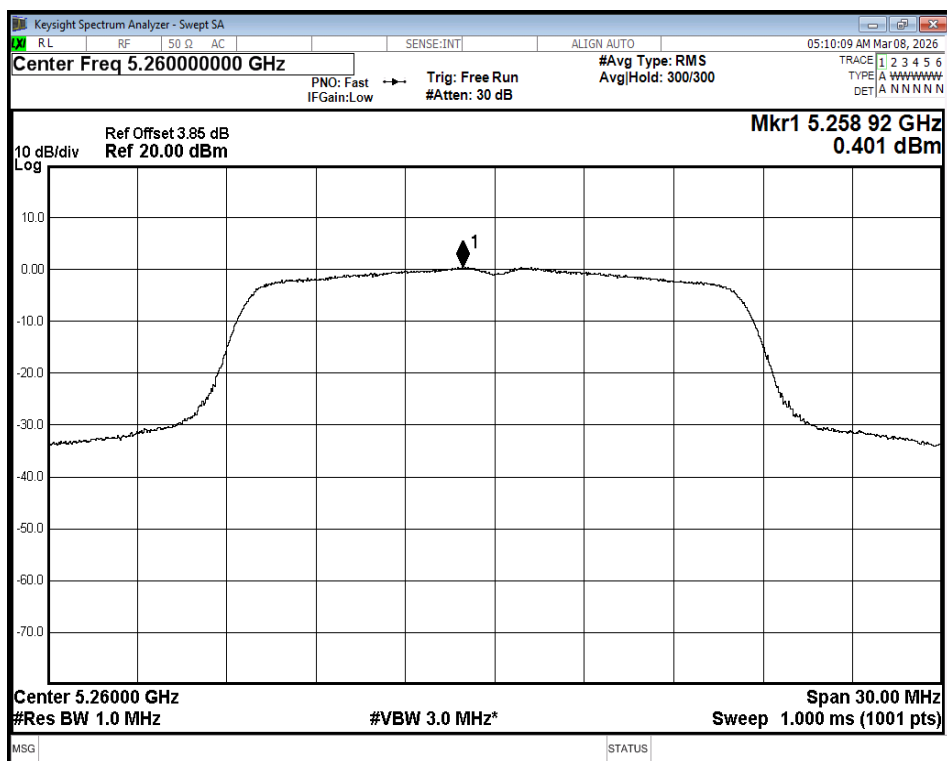
-26dB Bandwidth NVNT ac40 5310MHz Ant1

2 Maximum Conducted Output Power

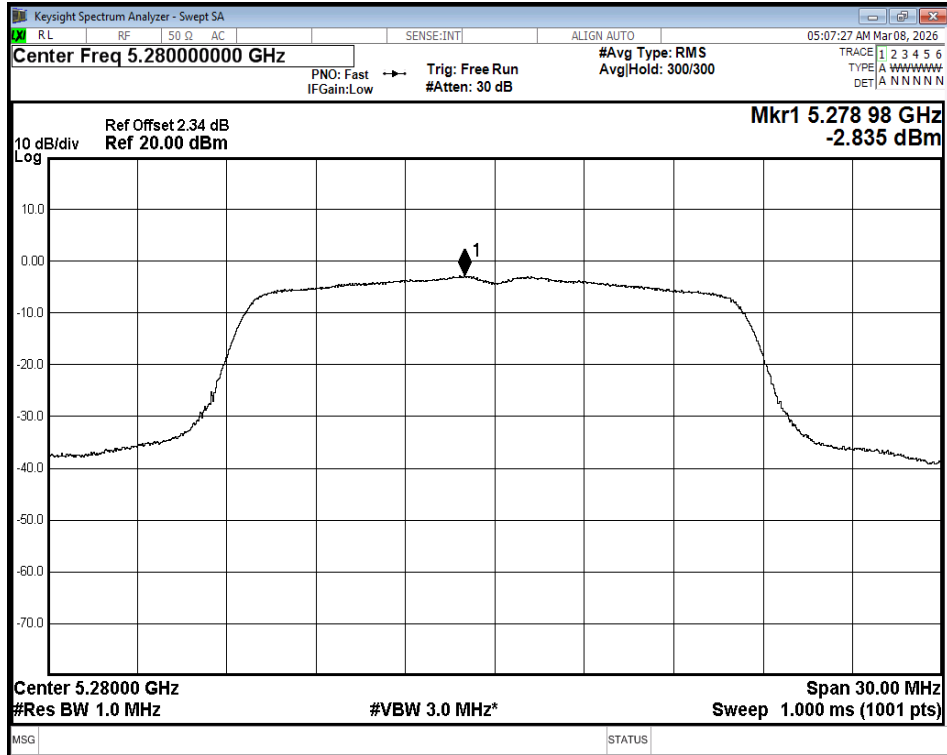
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5260	Ant1	13.38	0	13.38	24	Pass
NVNT	a	5280	Ant1	11.14	0	11.14	24	Pass
NVNT	a	5320	Ant1	10.22	0	10.22	24	Pass
NVNT	n20	5260	Ant1	13.21	0	13.21	24	Pass
NVNT	n20	5280	Ant1	11.26	0	11.26	24	Pass
NVNT	n20	5320	Ant1	10.31	0	10.31	24	Pass
NVNT	n40	5270	Ant1	12.11	0	12.11	24	Pass
NVNT	n40	5310	Ant1	11.2	0	11.2	24	Pass
NVNT	ac20	5260	Ant1	13.34	0	13.34	24	Pass
NVNT	ac20	5280	Ant1	11.4	0	11.4	24	Pass
NVNT	ac20	5320	Ant1	10.07	0	10.07	24	Pass
NVNT	ac40	5270	Ant1	11.92	0	11.92	24	Pass
NVNT	ac40	5310	Ant1	11.03	0	11.03	24	Pass

3 Maximum Power Spectral Density Level

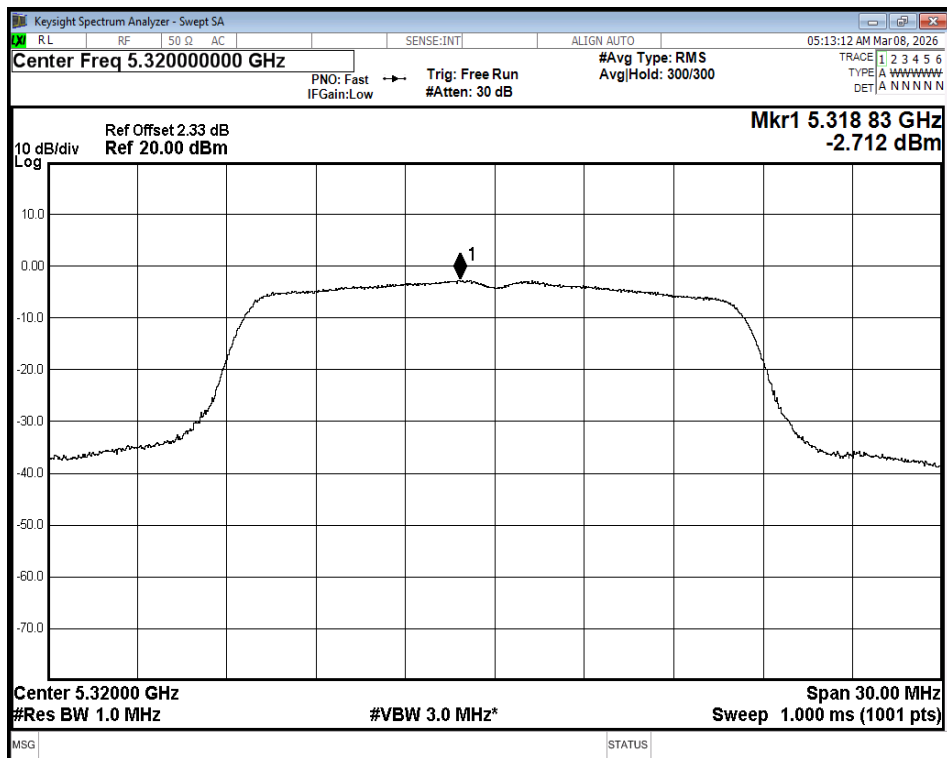
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total Conducted PSD (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5260	Ant1	0.4	0	0.4	11	Pass
NVNT	a	5280	Ant1	-2.84	0	-2.84	11	Pass
NVNT	a	5320	Ant1	-2.71	0	-2.71	11	Pass
NVNT	n20	5260	Ant1	0.06	0	0.06	11	Pass
NVNT	n20	5280	Ant1	-1.73	0	-1.73	11	Pass
NVNT	n20	5320	Ant1	-2.84	0	-2.84	11	Pass
NVNT	n40	5270	Ant1	-4.68	0	-4.68	11	Pass
NVNT	n40	5310	Ant1	-5.34	0	-5.34	11	Pass
NVNT	ac20	5260	Ant1	0.06	0	0.06	11	Pass
NVNT	ac20	5280	Ant1	-1.64	0	-1.64	11	Pass
NVNT	ac20	5320	Ant1	-3.11	0	-3.11	11	Pass
NVNT	ac40	5270	Ant1	-4.84	0	-4.84	11	Pass
NVNT	ac40	5310	Ant1	-5.5	0	-5.5	11	Pass



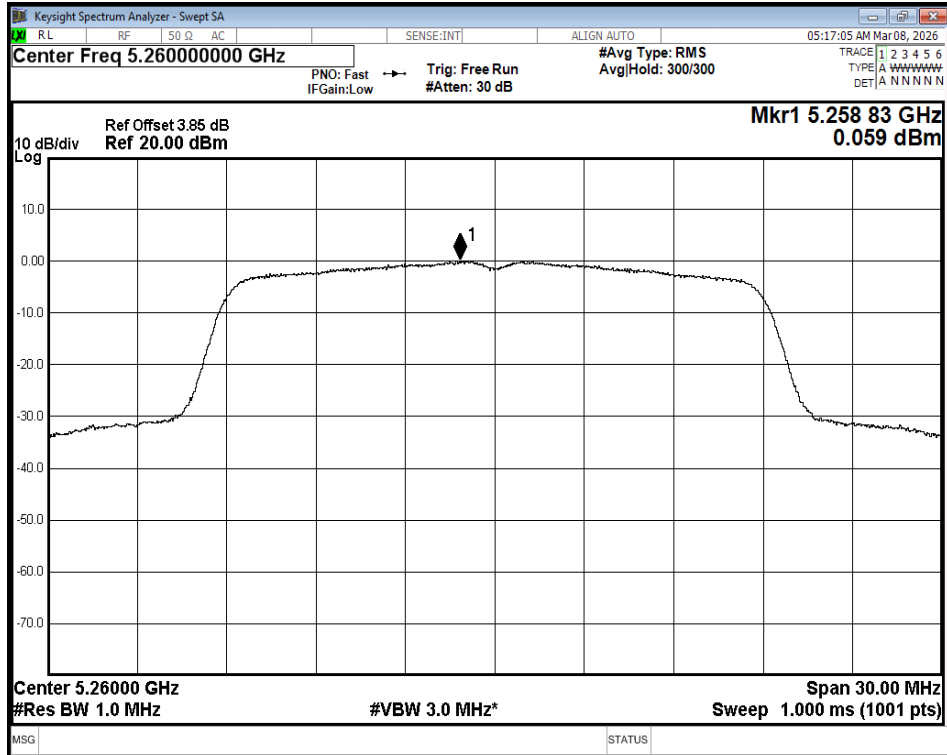
PSD NVNT a 5260MHz Ant1



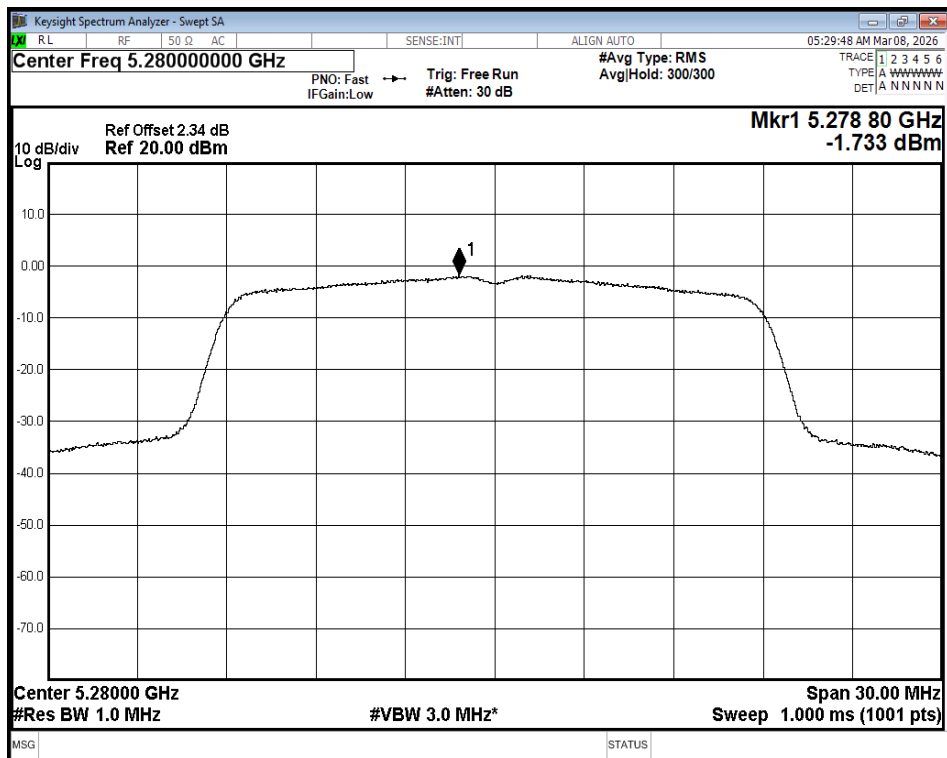
PSD NVNT a 5280MHz Ant1



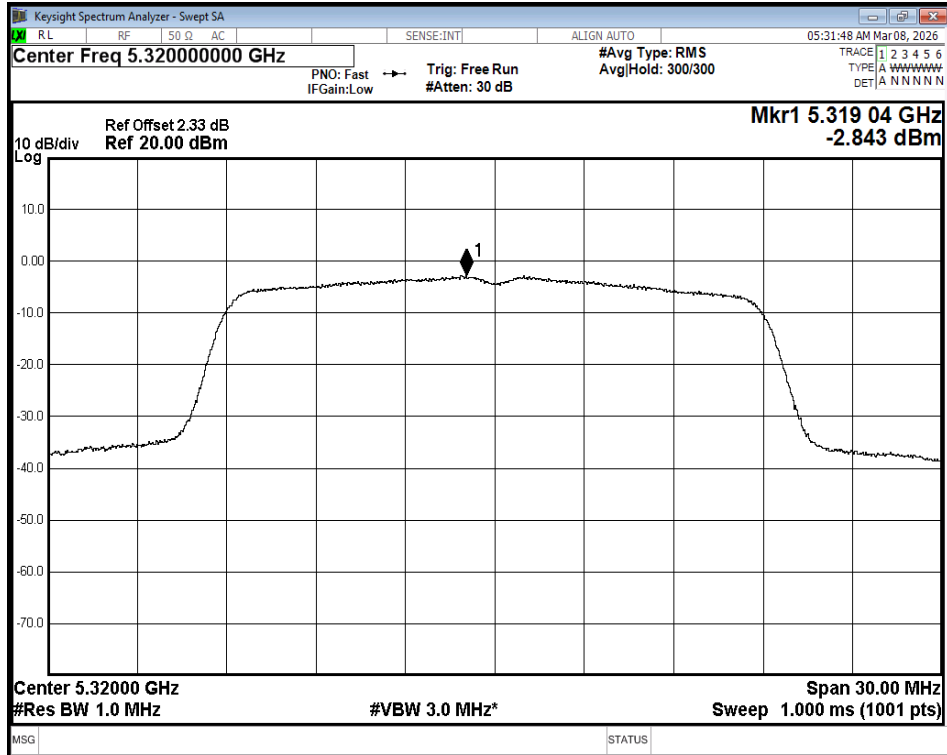
PSD NVNT a 5320MHz Ant1



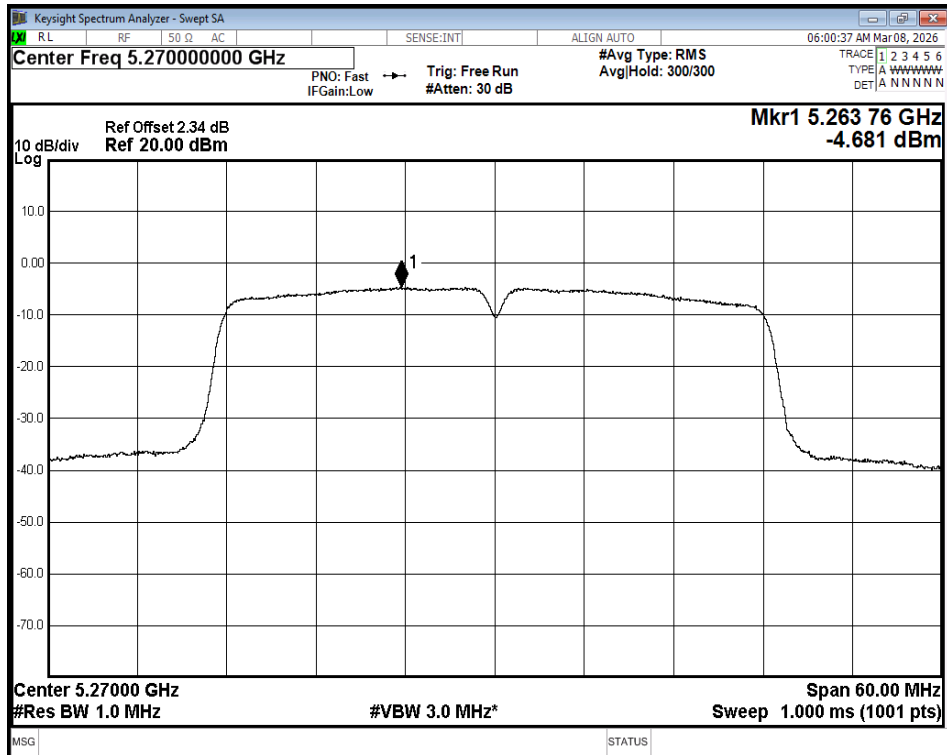
PSD NVNT n20 5260MHz Ant1



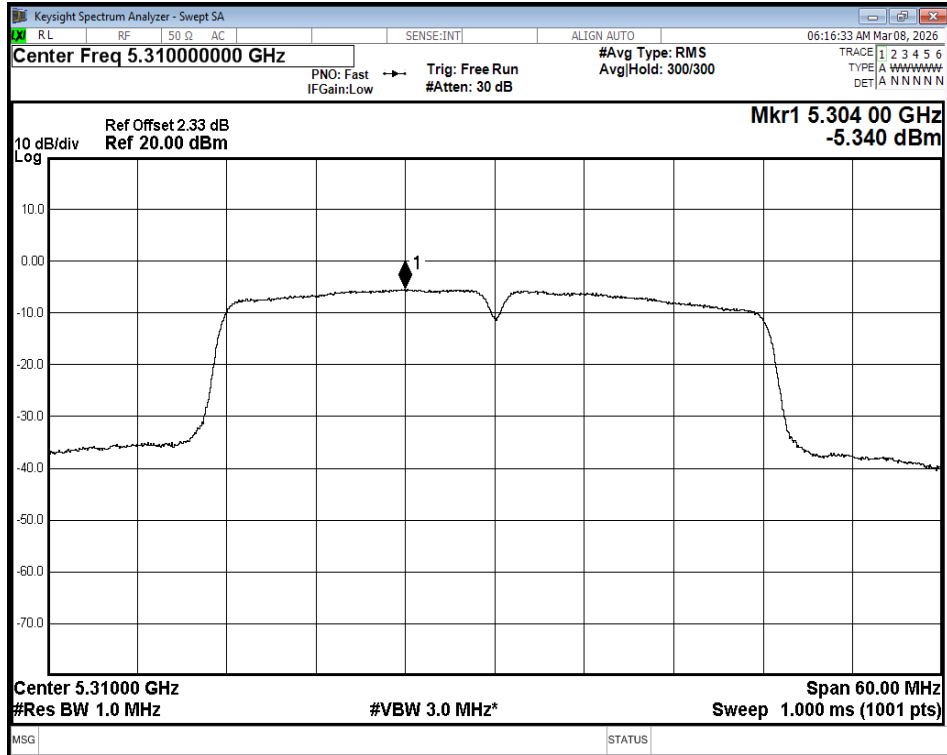
PSD NVNT n20 5280MHz Ant1



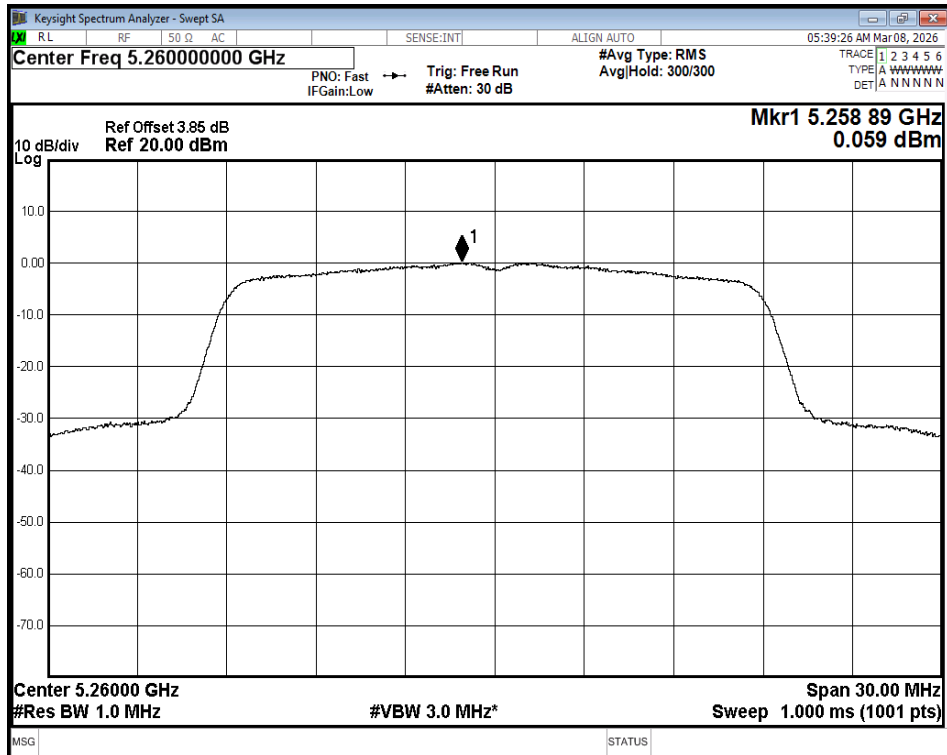
PSD NVNT n20 5320MHz Ant1



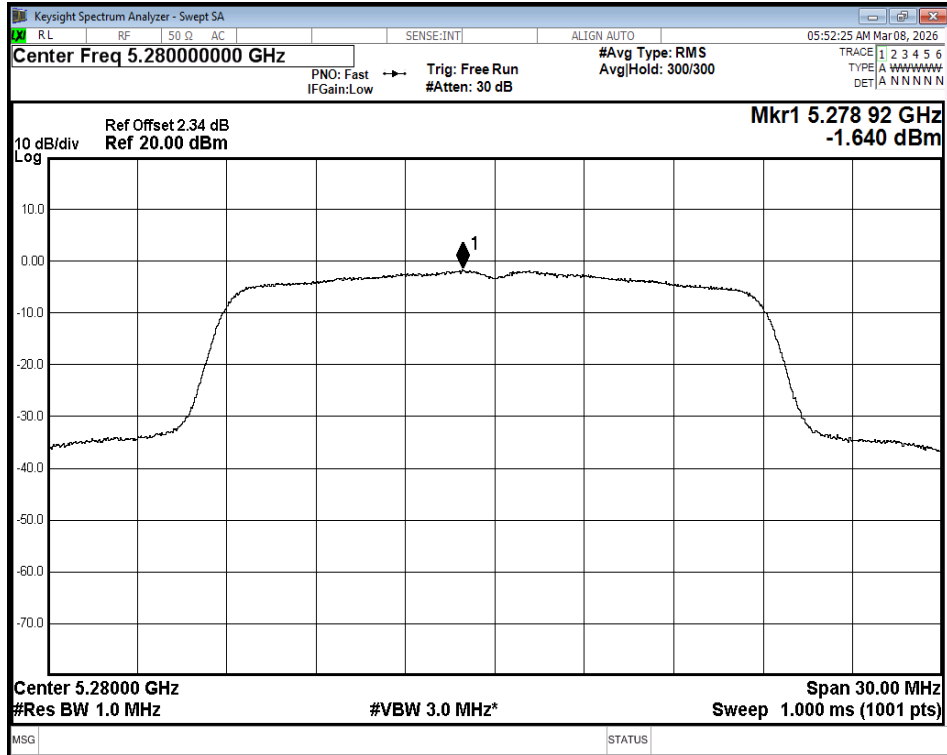
PSD NVNT n40 5270MHz Ant1



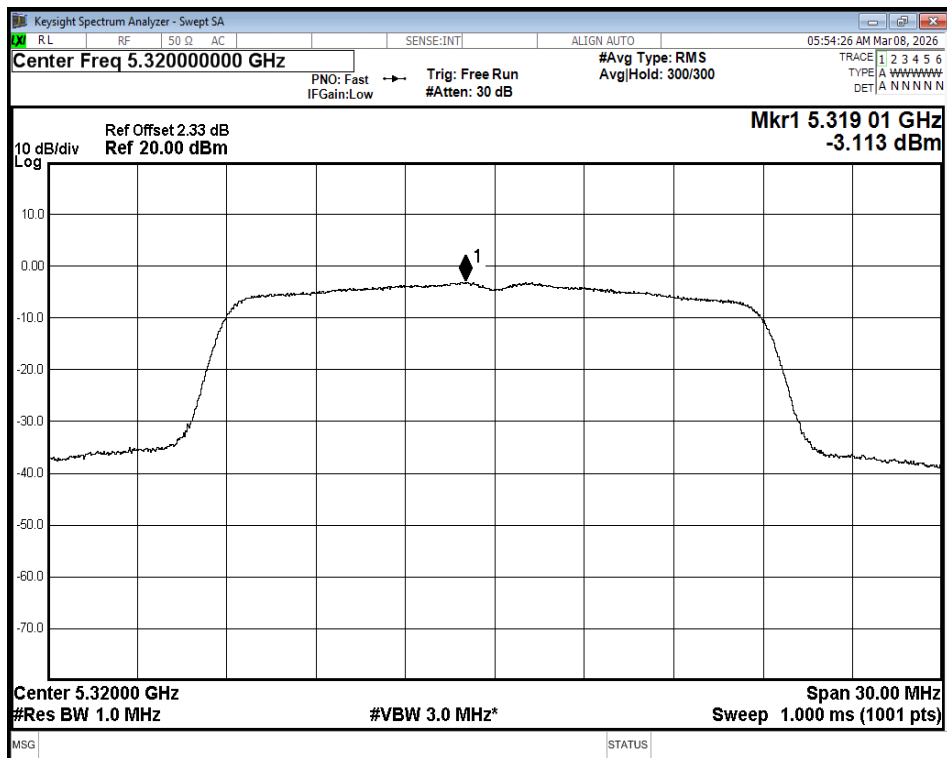
PSD NVNT n40 5310MHz Ant1



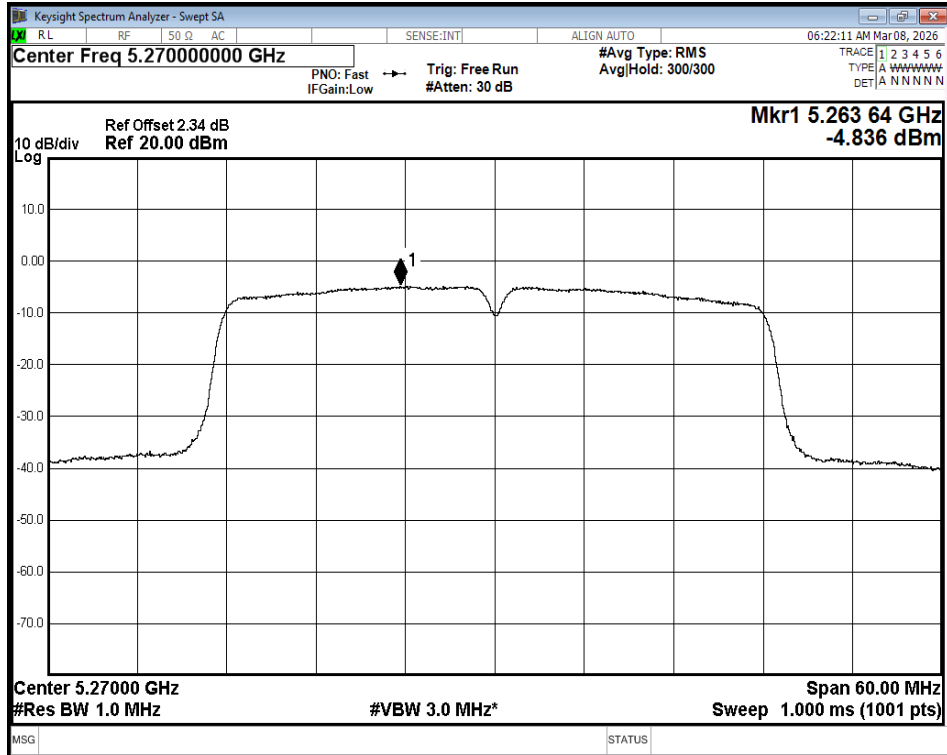
PSD NVNT ac20 5260MHz Ant1



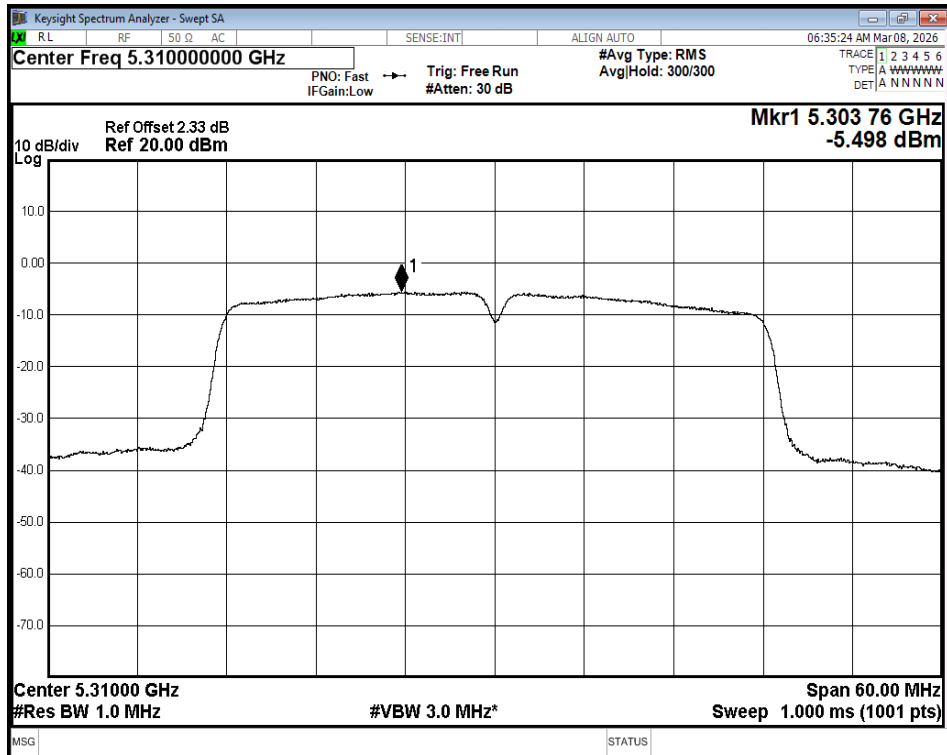
PSD NVNT ac20 5280MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1

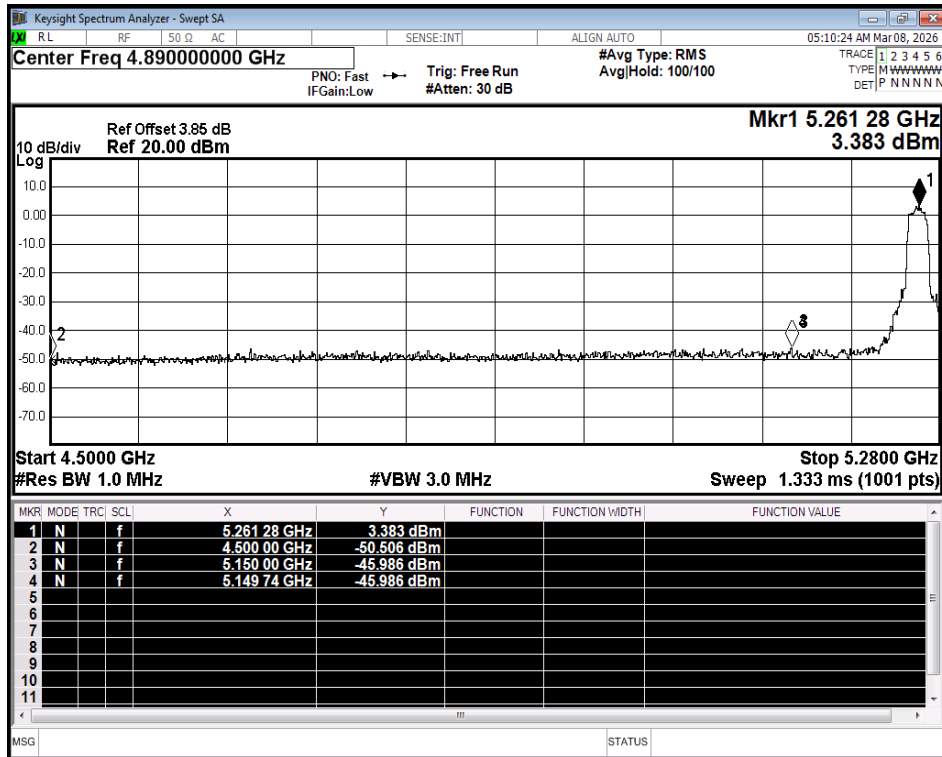


PSD NVNT ac40 5310MHz Ant1

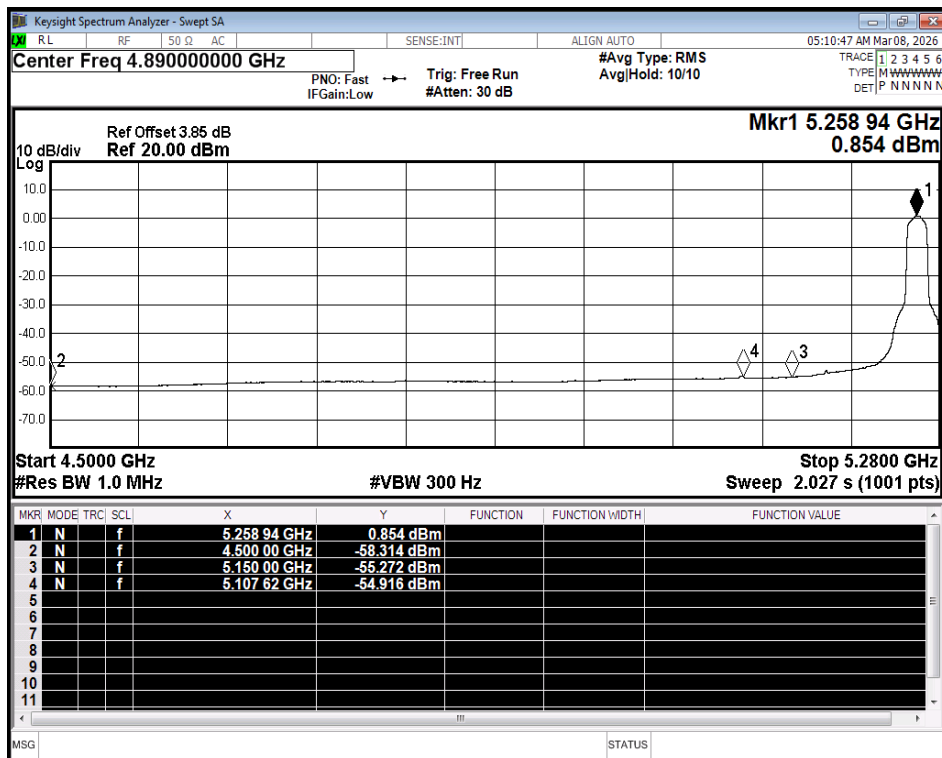
4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-50.5	2	46.73	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-58.31	2	38.92	Average	54	Pass
NVNT	a	5260	Ant1	5149.74	-45.98	2	51.25	Peak	68.2	Pass
NVNT	a	5260	Ant1	5107.62	-54.91	2	42.32	Average	54	Pass
NVNT	a	5260	Ant1	5150	-49.19	2	48.04	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-55.21	2	42.02	Average	54	Pass
NVNT	a	5320	Ant1	5350	-42.59	2	54.64	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-52.42	2	44.81	Average	54	Pass
NVNT	a	5320	Ant1	5350.8	-42.4	2	54.83	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-52.42	2	44.81	Average	54	Pass
NVNT	a	5320	Ant1	5460	-51.7	2	45.53	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.71	2	39.52	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.15	2	47.08	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-58.48	2	38.75	Average	54	Pass
NVNT	n20	5260	Ant1	5036.64	-46.48	2	50.75	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5107.62	-55.11	2	42.12	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-49.53	2	47.7	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-55.44	2	41.79	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-43.59	2	53.64	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-52.41	2	44.82	Average	54	Pass
NVNT	n20	5320	Ant1	5352.4	-41.35	2	55.88	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-52.41	2	44.82	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-51.29	2	45.94	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-57.95	2	39.28	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-53.16	2	44.07	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-60	2	37.23	Average	54	Pass
NVNT	n40	5270	Ant1	5133.42	-46.84	2	50.39	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5122.08	-56.3	2	40.93	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-50.68	2	46.55	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-56.46	2	40.77	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-35.06	2	62.17	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-43.84	2	53.39	Average	54	Pass
NVNT	n40	5310	Ant1	5351.2	-34.66	2	62.57	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-43.84	2	53.39	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-50.08	2	47.15	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-57.55	2	39.68	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-49.95	2	47.28	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-58.49	2	38.74	Average	54	Pass
NVNT	ac20	5260	Ant1	4711.38	-45.65	2	51.58	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5107.62	-55.11	2	42.12	Average	54	Pass

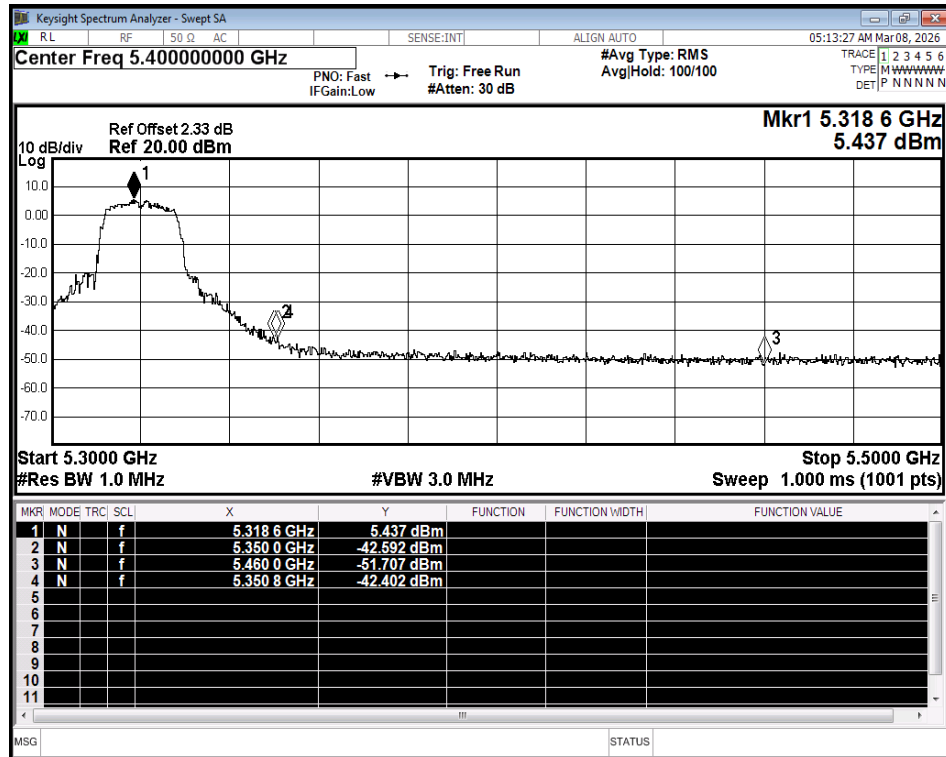
NVNT	ac20	5260	Ant1	5150	-48.54	2	48.69	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-55.44	2	41.79	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-41.68	2	55.55	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-52.31	2	44.92	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-41.68	2	55.55	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-52.31	2	44.92	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-51.21	2	46.02	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-58.02	2	39.21	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-53.34	2	43.89	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-60	2	37.23	Average	54	Pass
NVNT	ac40	5270	Ant1	5101.02	-47.18	2	50.05	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5122.89	-56.34	2	40.89	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-50.58	2	46.65	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-56.53	2	40.7	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-36.28	2	60.95	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-44.52	2	52.71	Average	54	Pass
NVNT	ac40	5310	Ant1	5350.6	-35.41	2	61.82	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-44.52	2	52.71	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-50.67	2	46.56	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-57.56	2	39.67	Average	54	Pass



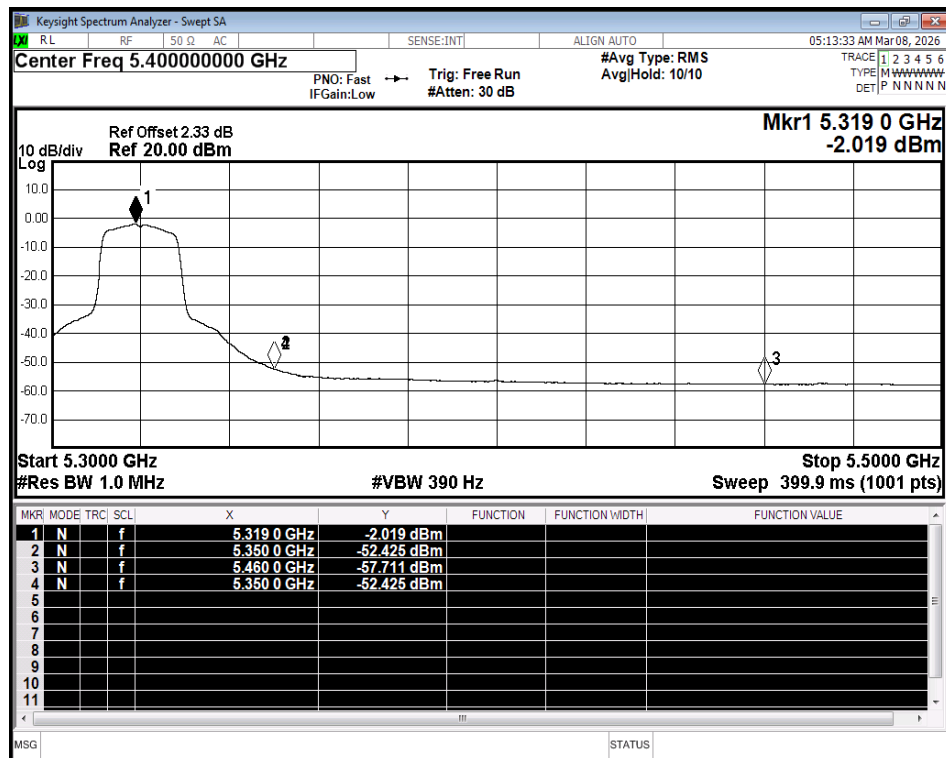
Restrict Band NVNT a 5260MHz Ant1 Peak



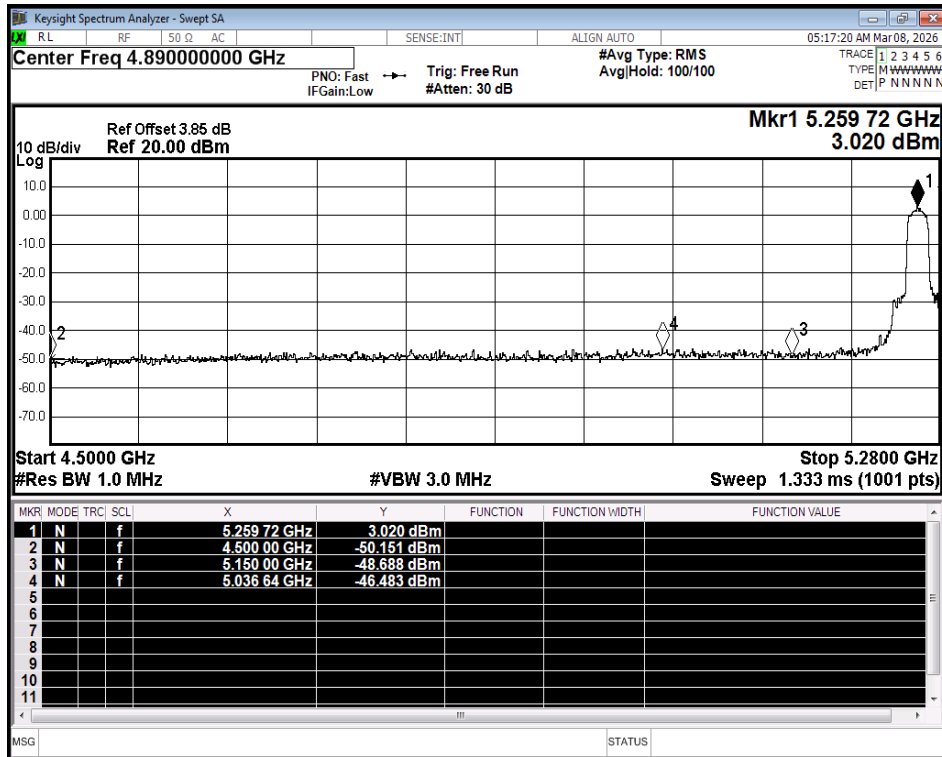
Restrict Band NVNT a 5260MHz Ant1 Average



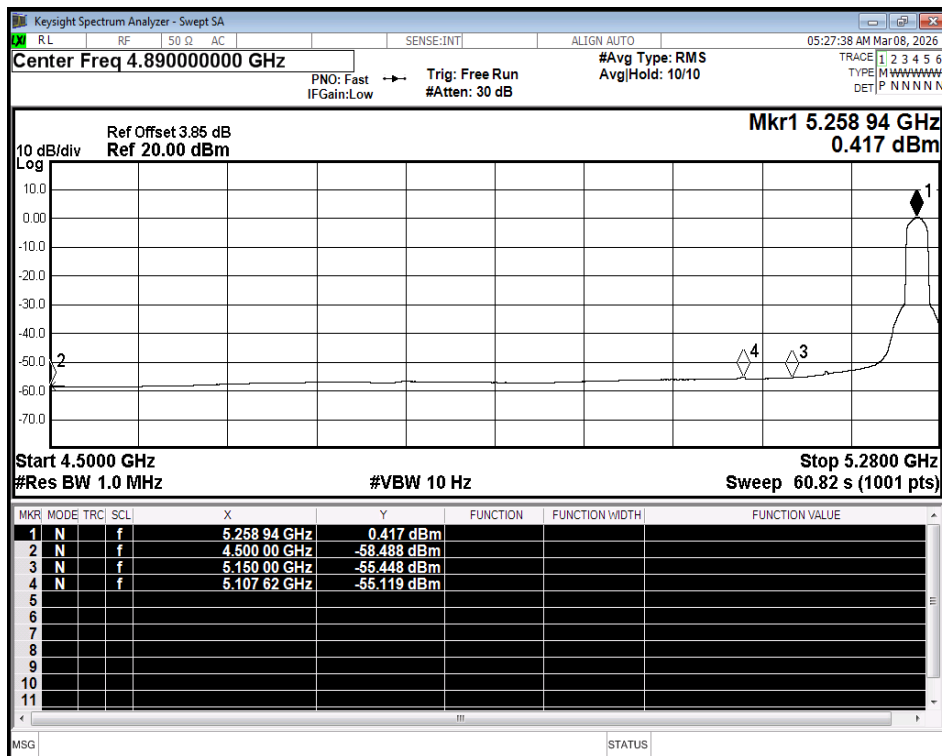
Restrict Band NVNT a 5320MHz Ant1 Peak



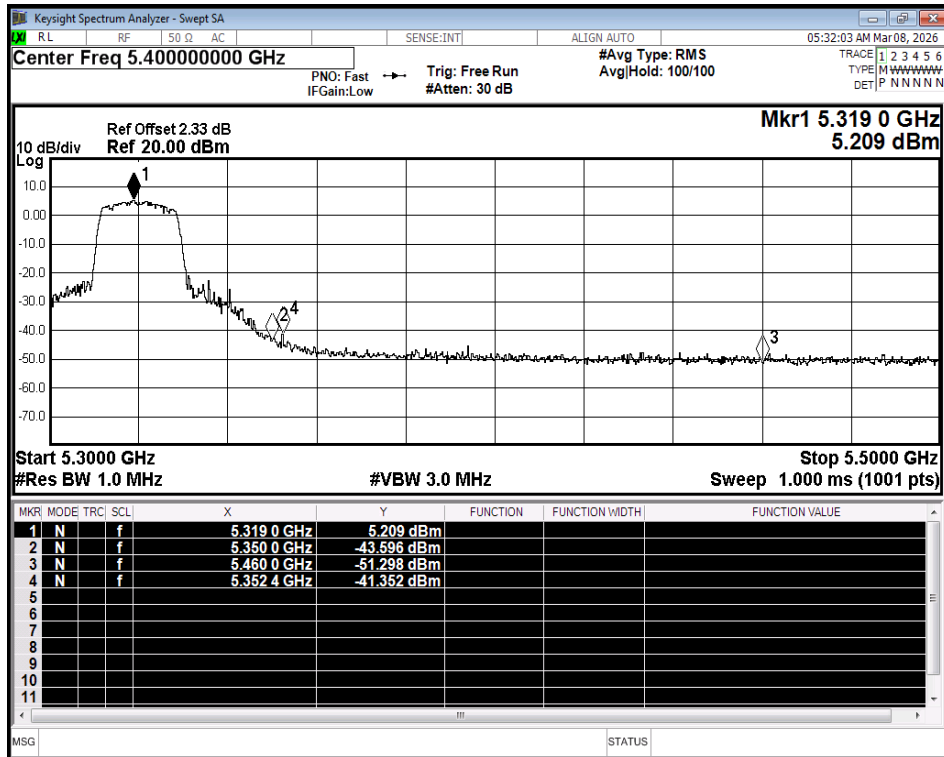
Restrict Band NVNT a 5320MHz Ant1 Average



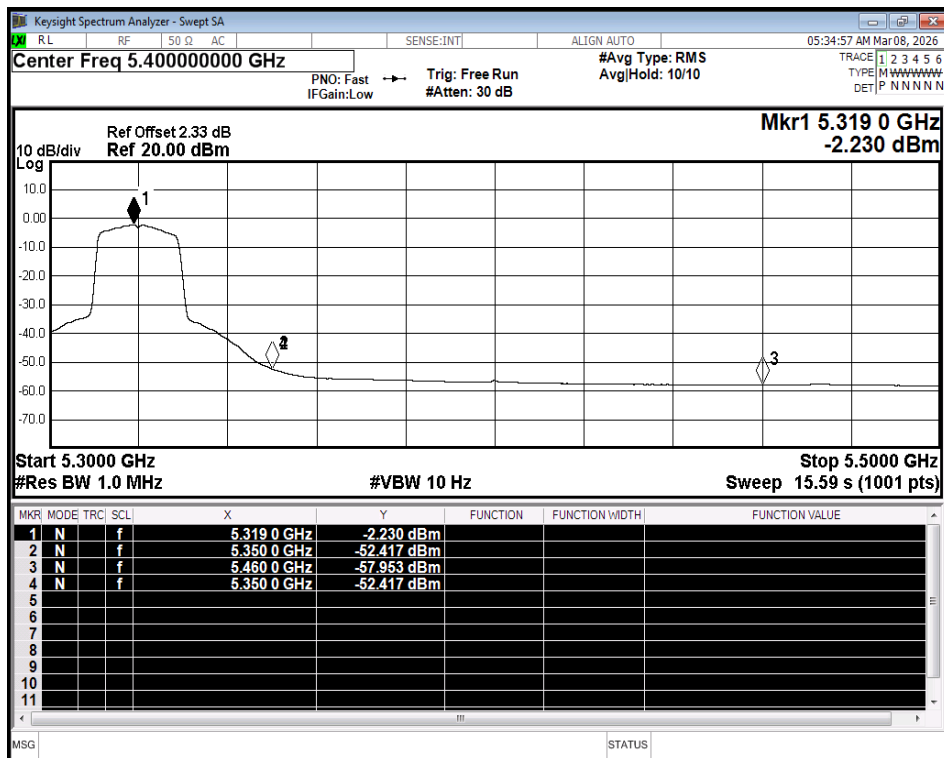
Restrict Band NVNT n20 5260MHz Ant1 Peak



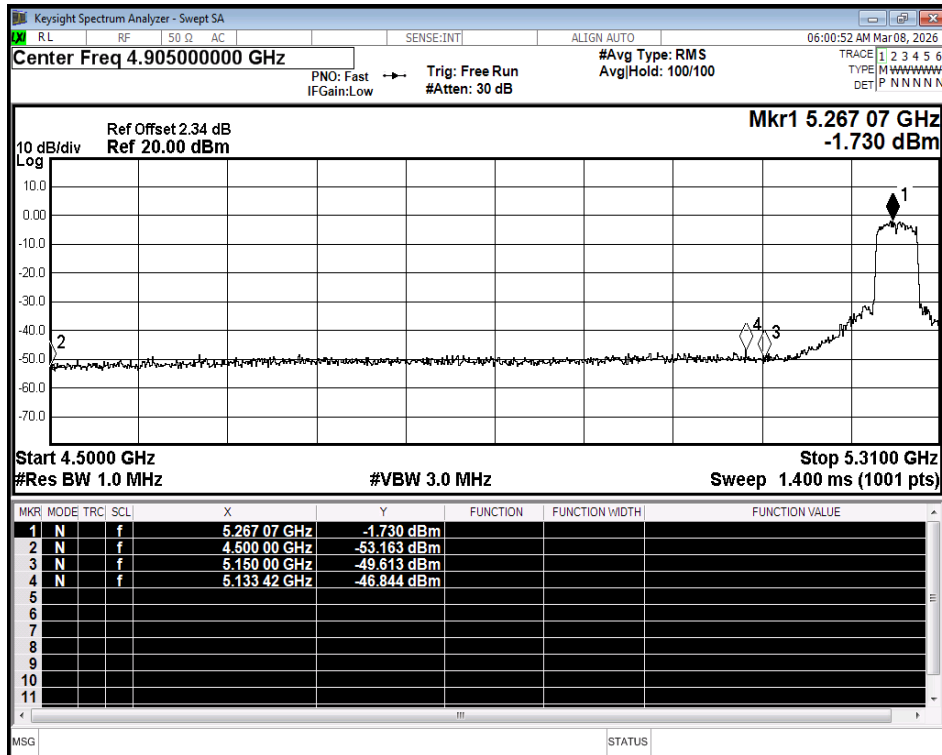
Restrict Band NVNT n20 5260MHz Ant1 Average



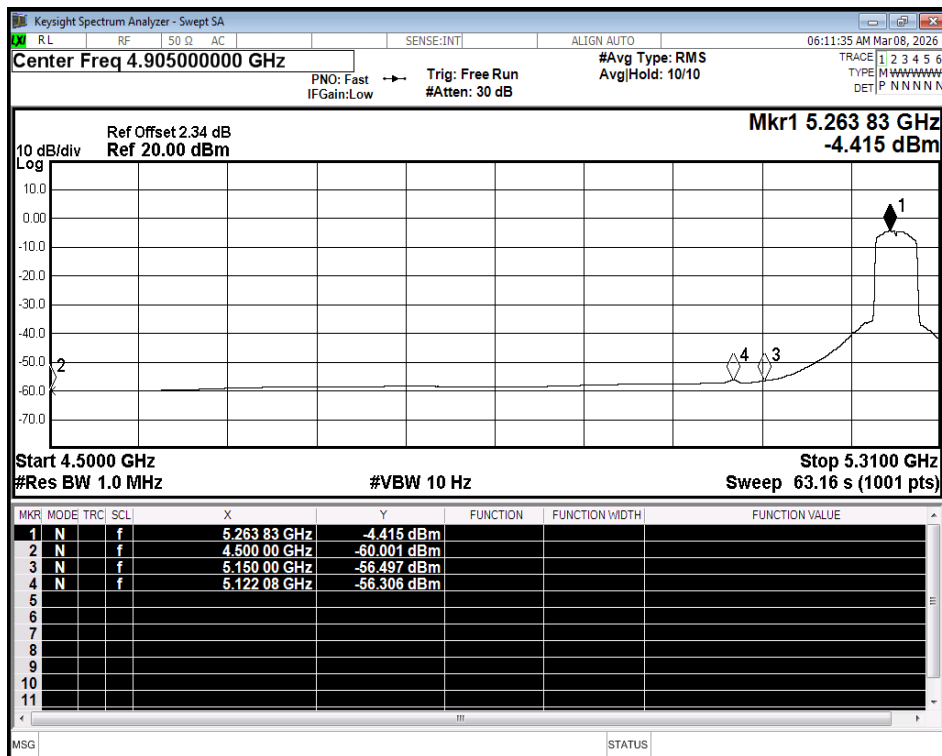
Restrict Band NVNT n20 5320MHz Ant1 Peak



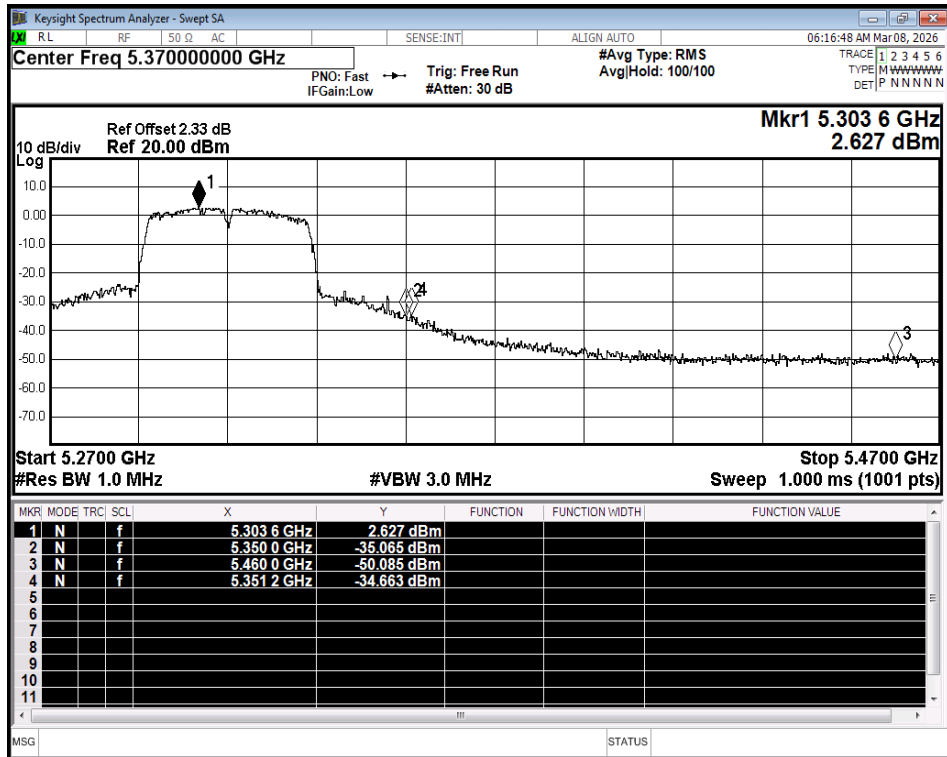
Restrict Band NVNT n20 5320MHz Ant1 Average



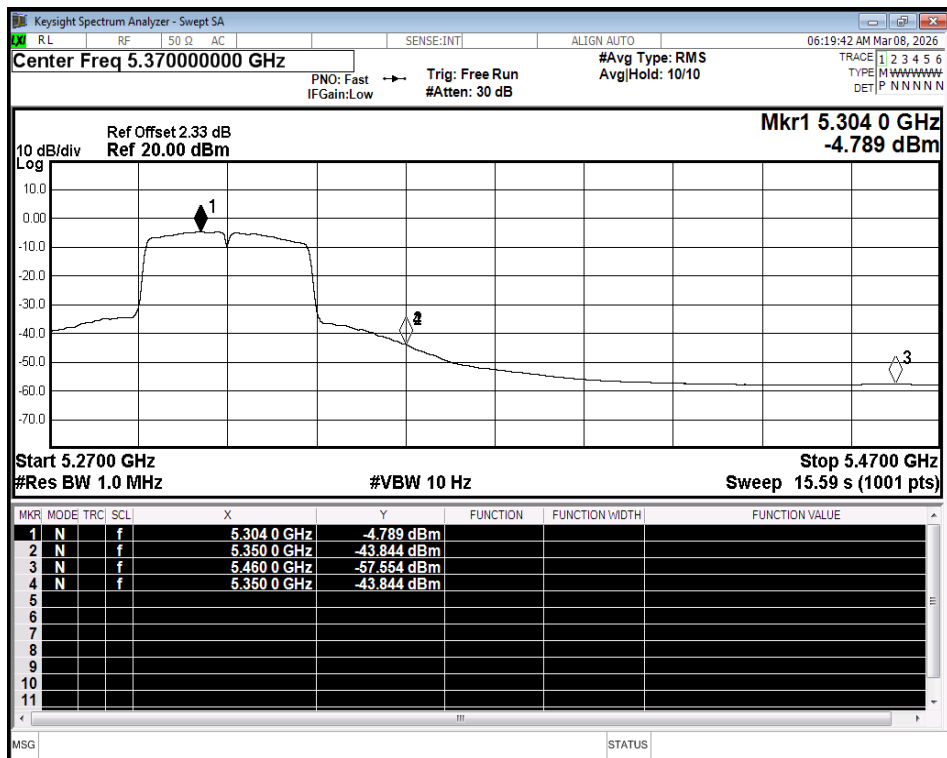
Restrict Band NVNT n40 5270MHz Ant1 Peak



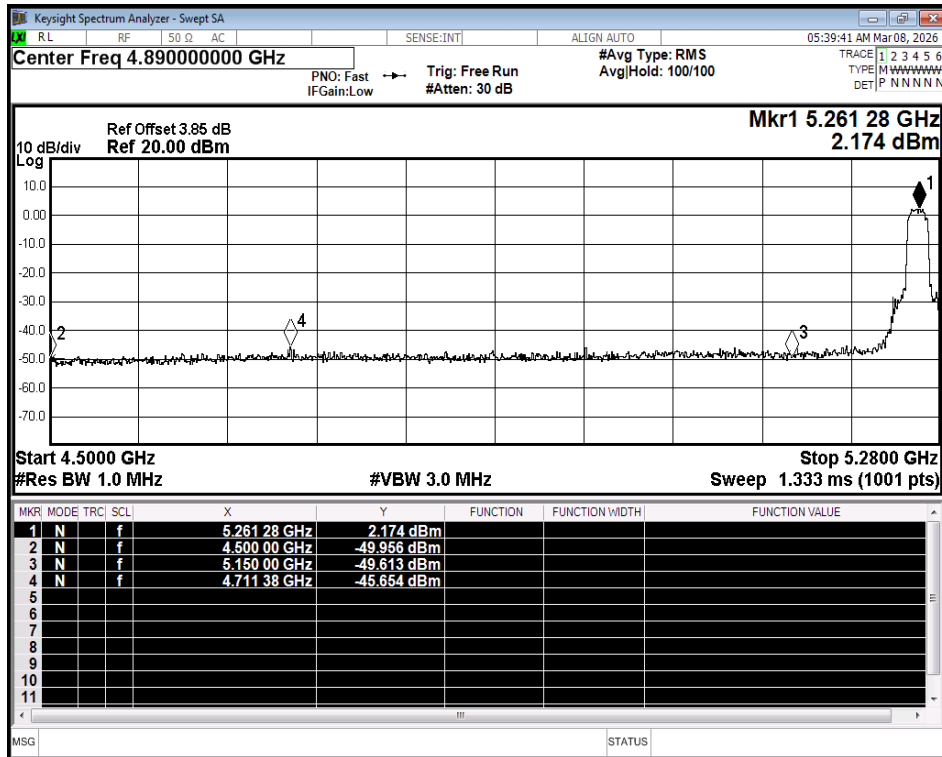
Restrict Band NVNT n40 5270MHz Ant1 Average



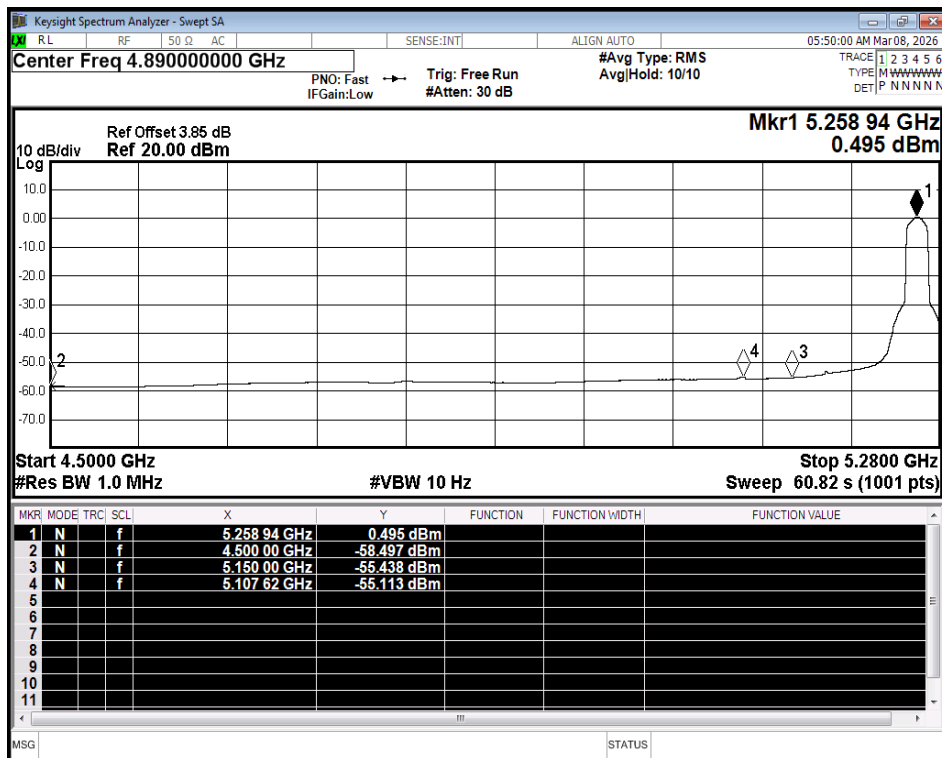
Restrict Band NVNT n40 5310MHz Ant1 Peak



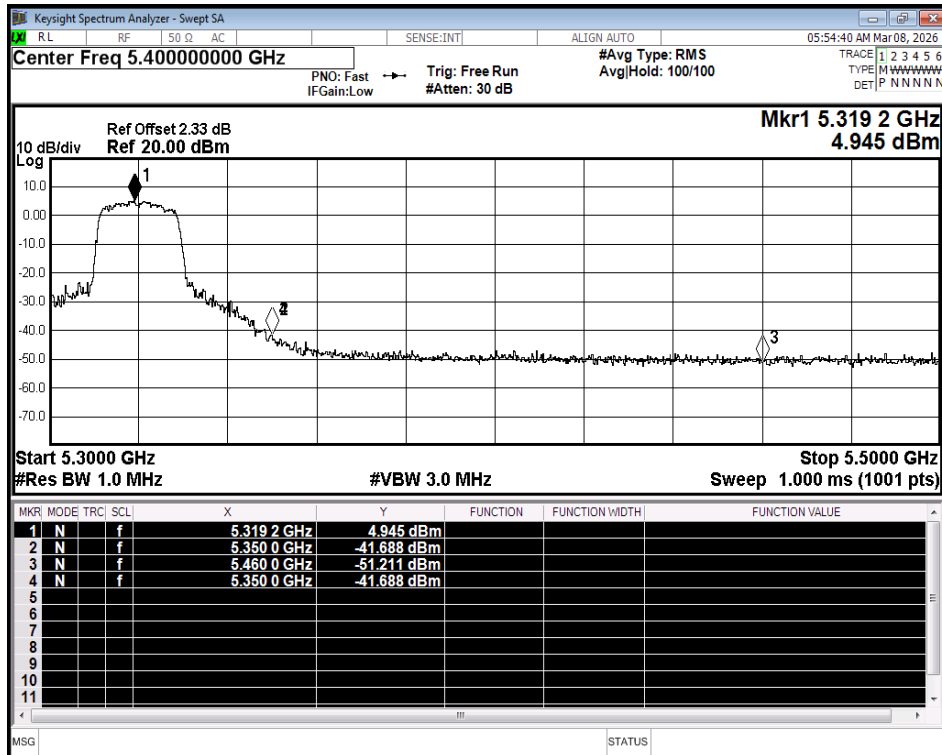
Restrict Band NVNT n40 5310MHz Ant1 Average



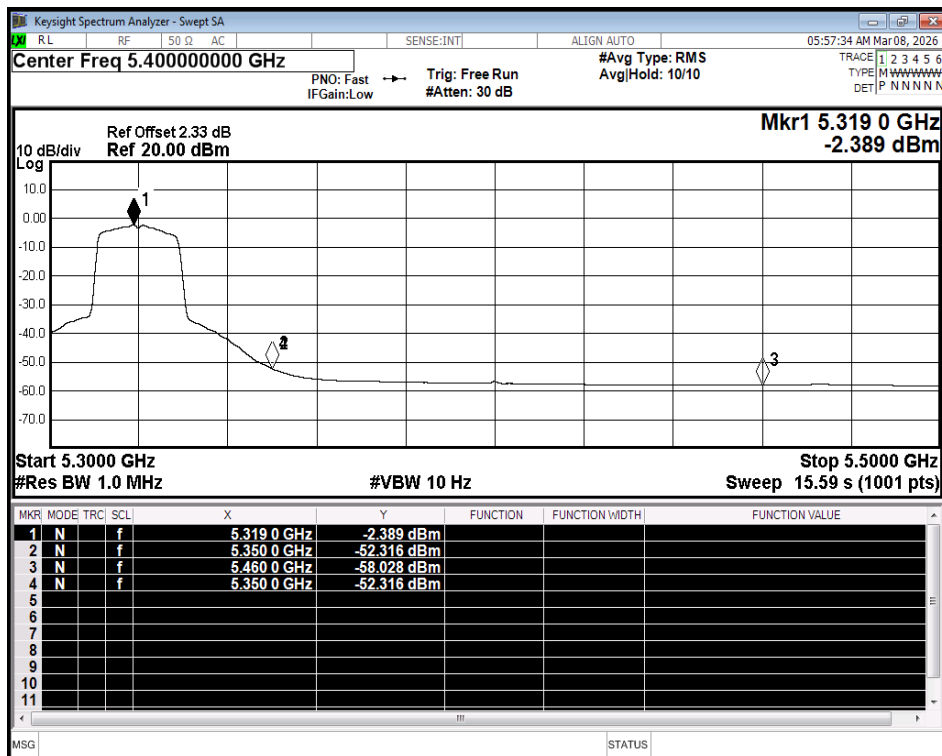
Restrict Band NVNT ac20 5260MHz Ant1 Peak



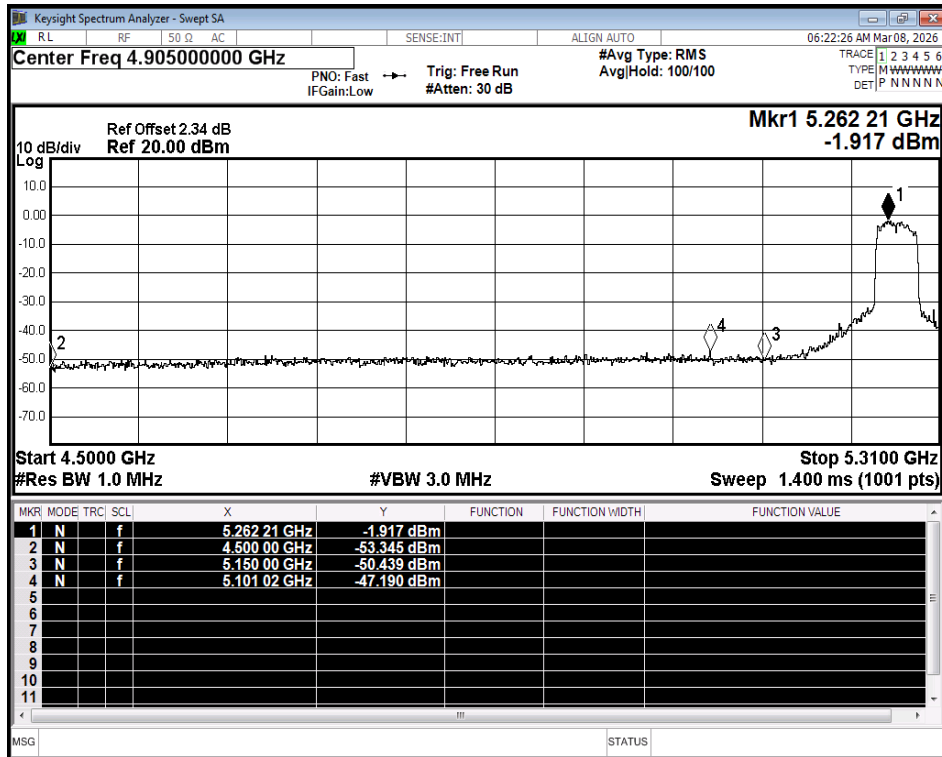
Restrict Band NVNT ac20 5260MHz Ant1 Average



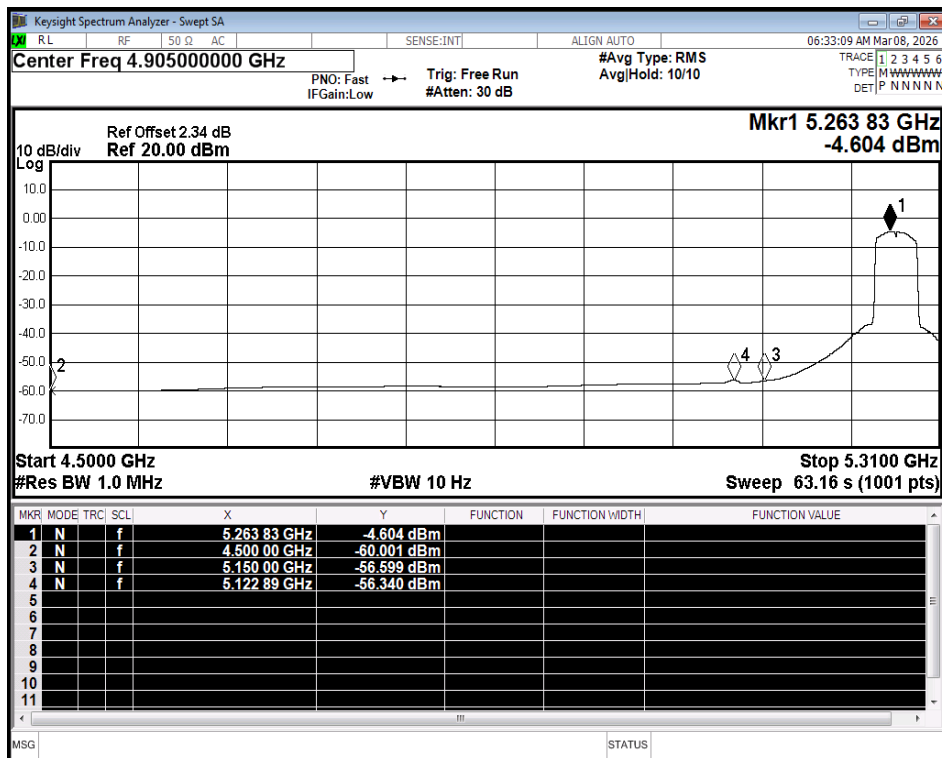
Restrict Band NVNT ac20 5320MHz Ant1 Peak



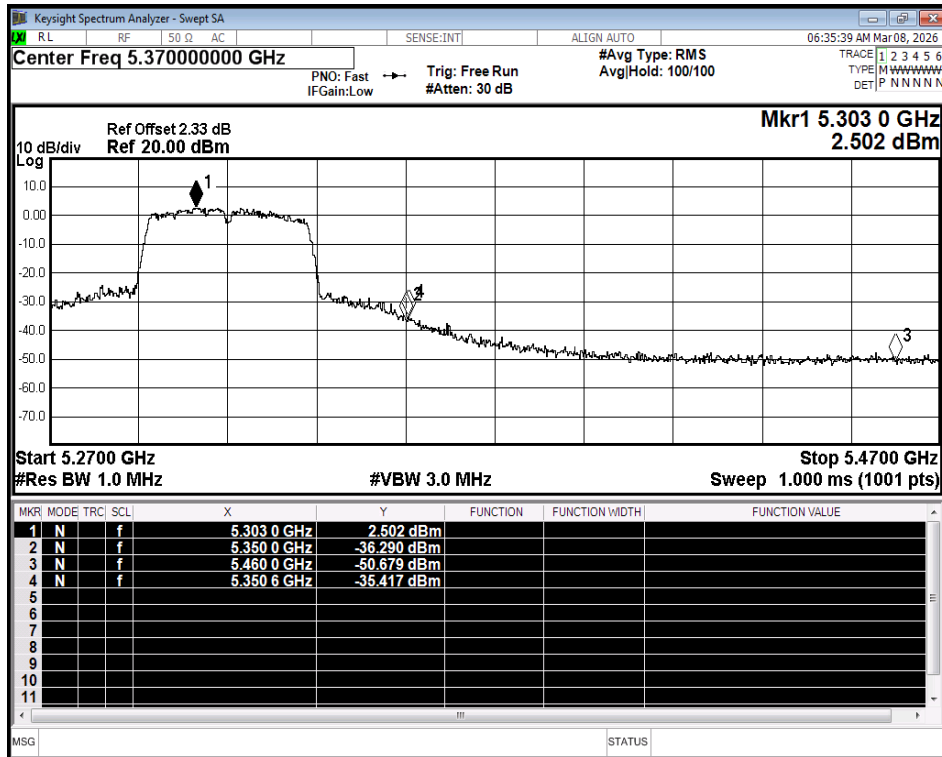
Restrict Band NVNT ac20 5320MHz Ant1 Average



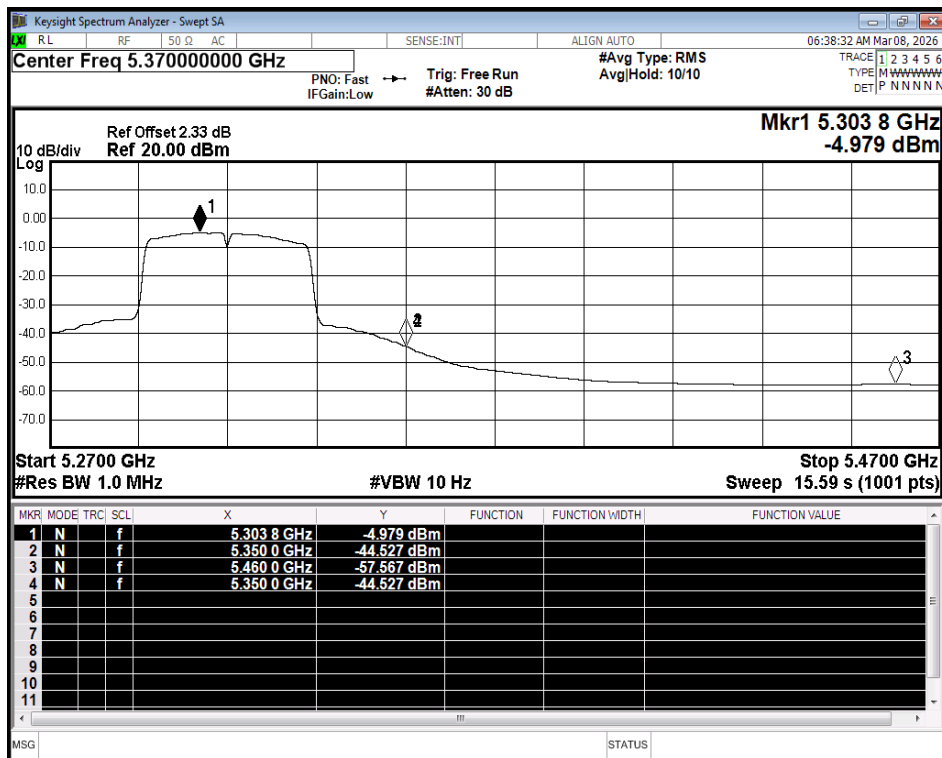
Restrict Band NVNT ac40 5270MHz Ant1 Peak



Restrict Band NVNT ac40 5270MHz Ant1 Average



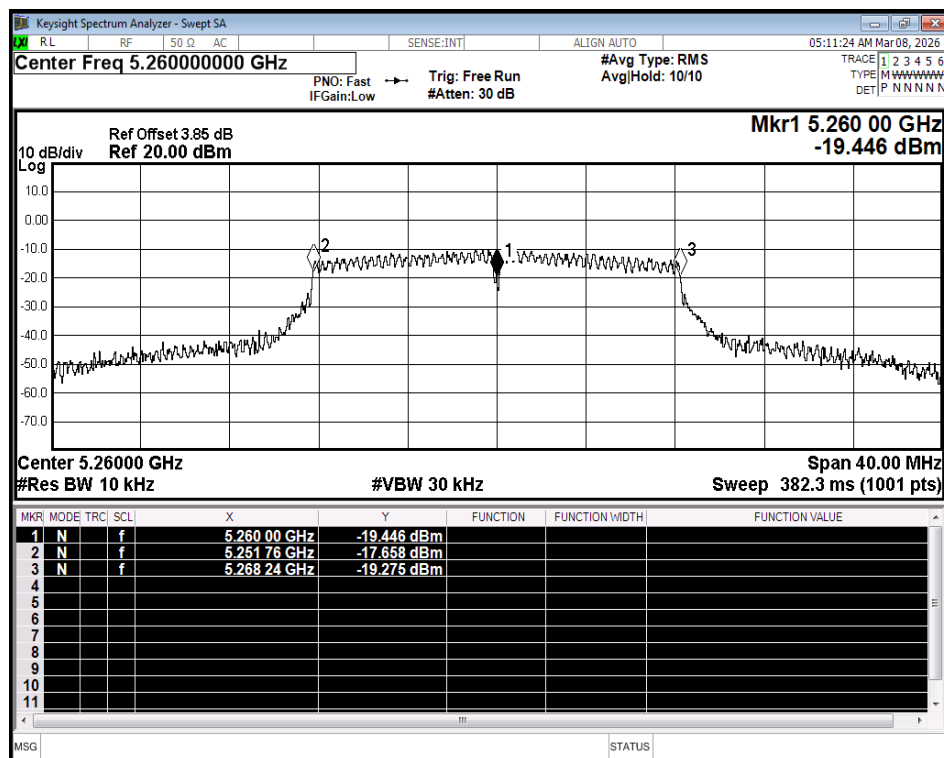
Restrict Band NVNT ac40 5310MHz Ant1 Peak



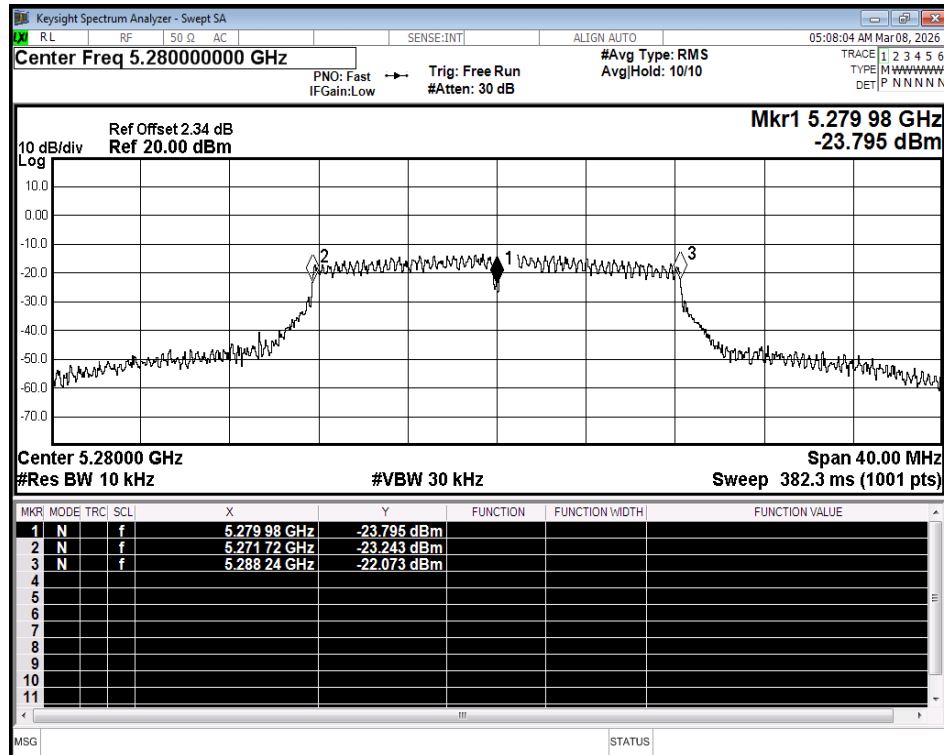
Restrict Band NVNT ac40 5310MHz Ant1 Average

5 Frequency Stability

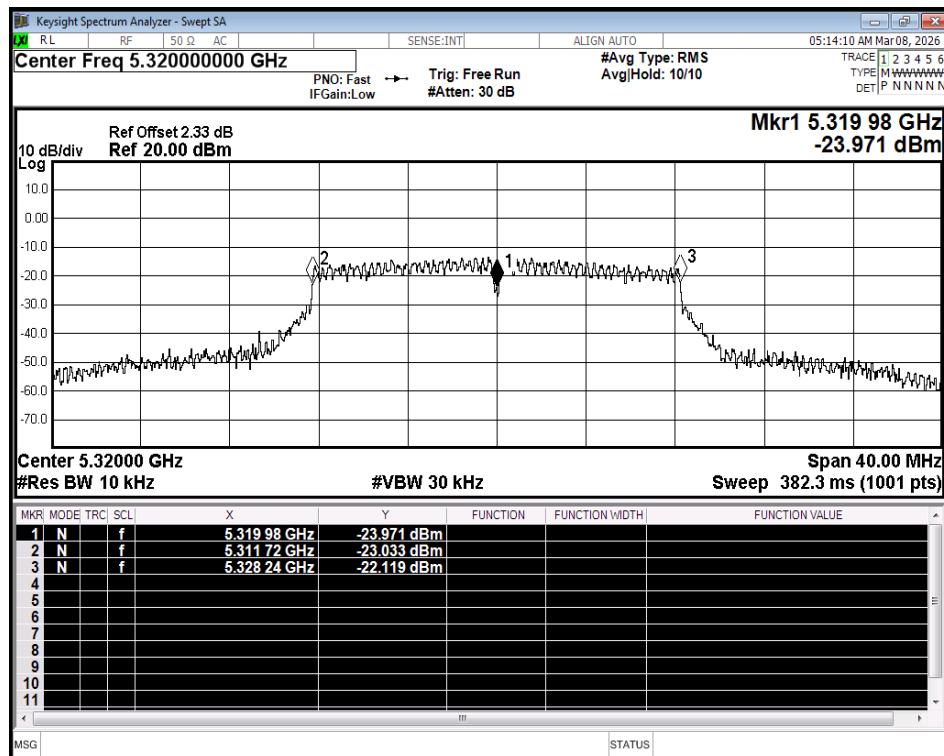
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5260	0	0	25	Pass
NVNT	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
NVNT	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	n20	5280	Ant1	5280	0	0	25	Pass
NVNT	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	n40	5270	Ant1	5270	0	0	25	Pass
NVNT	n40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac20	5260	Ant1	5260	0	0	25	Pass
NVNT	ac20	5280	Ant1	5280	0	0	25	Pass
NVNT	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass



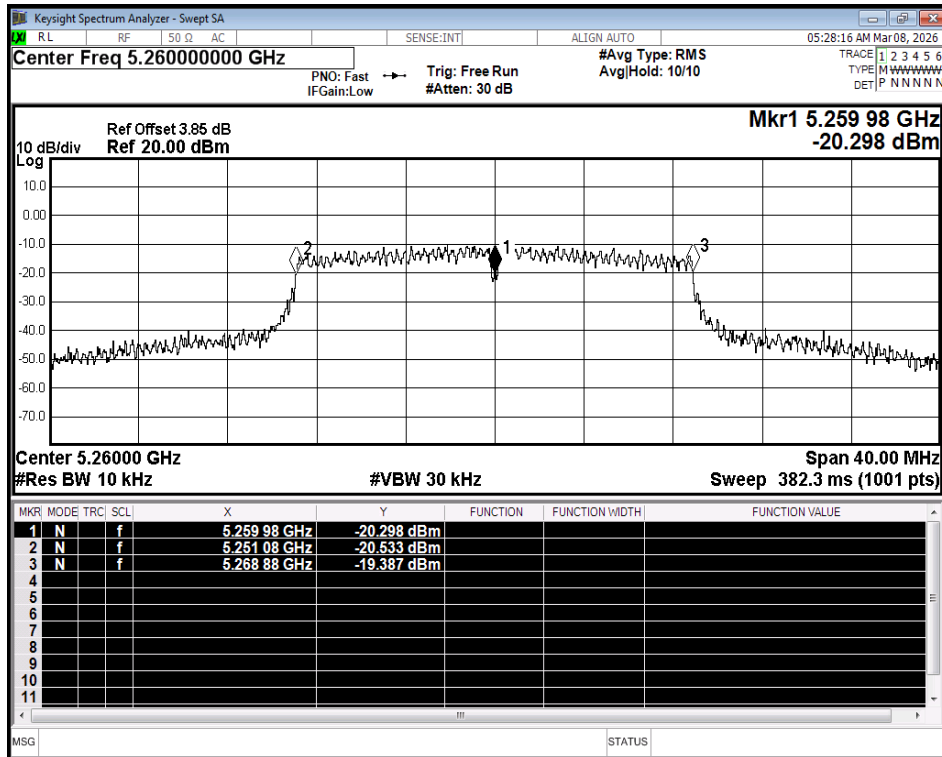
Freq. Stability NVNT a 5260MHz Ant1



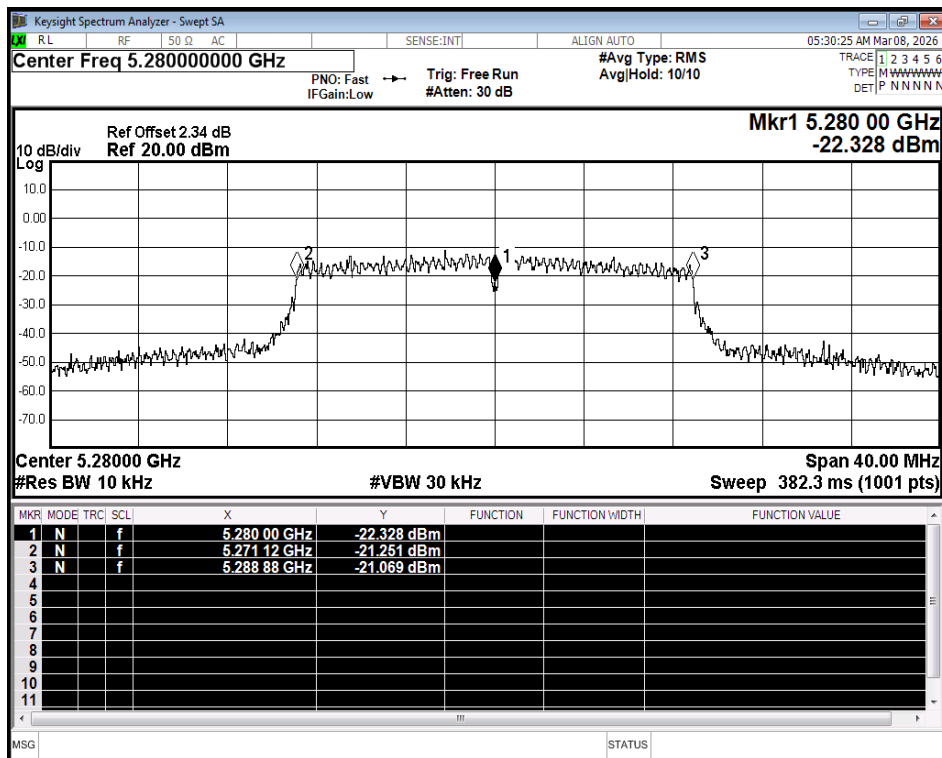
Freq. Stability NVNT a 5280MHz Ant1



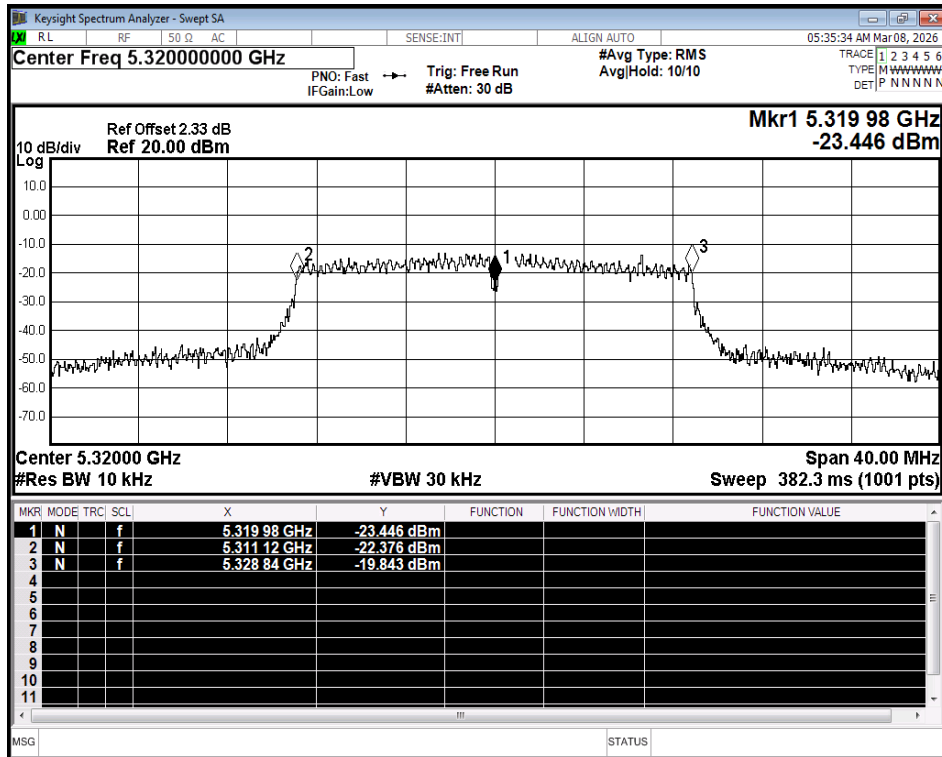
Freq. Stability NVNT a 5320MHz Ant1



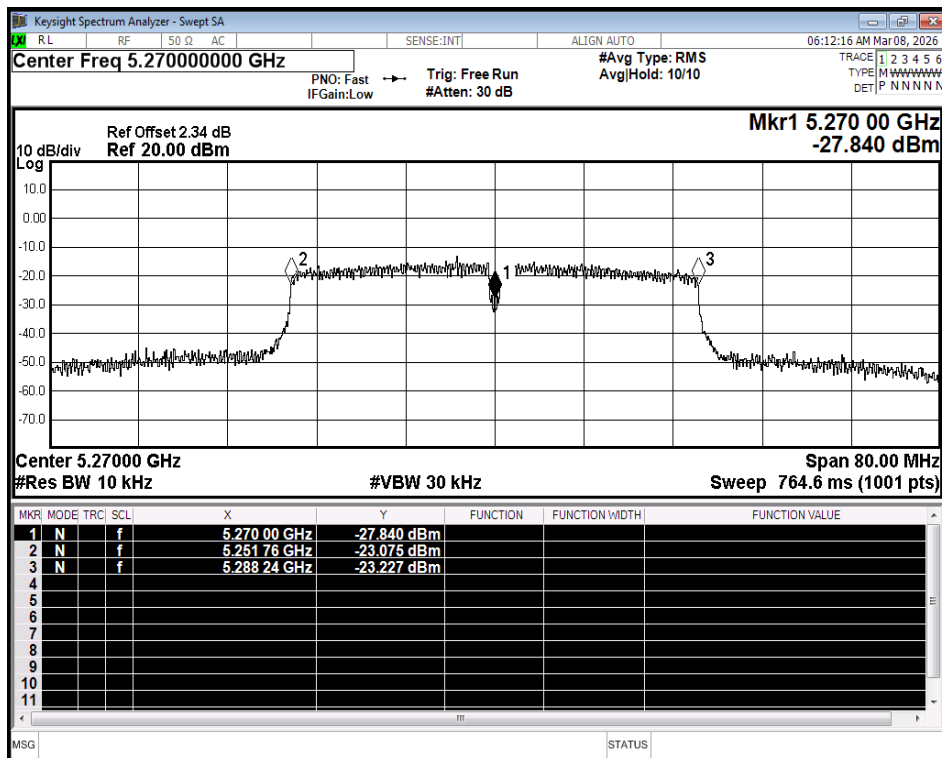
Freq. Stability NVNT n20 5260MHz Ant1



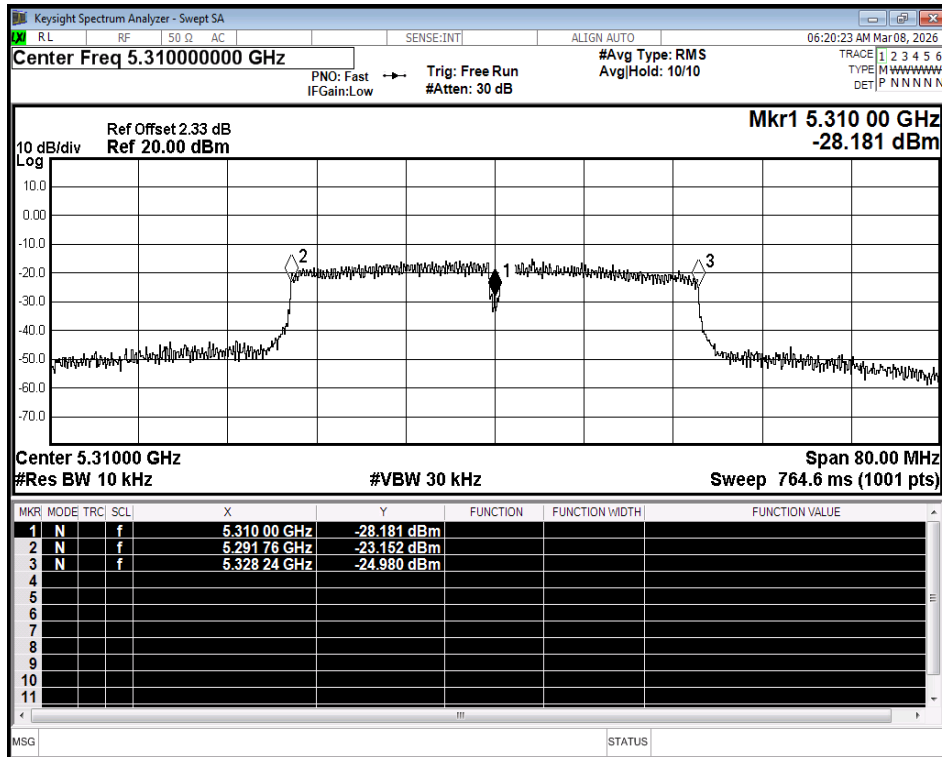
Freq. Stability NVNT n20 5280MHz Ant1



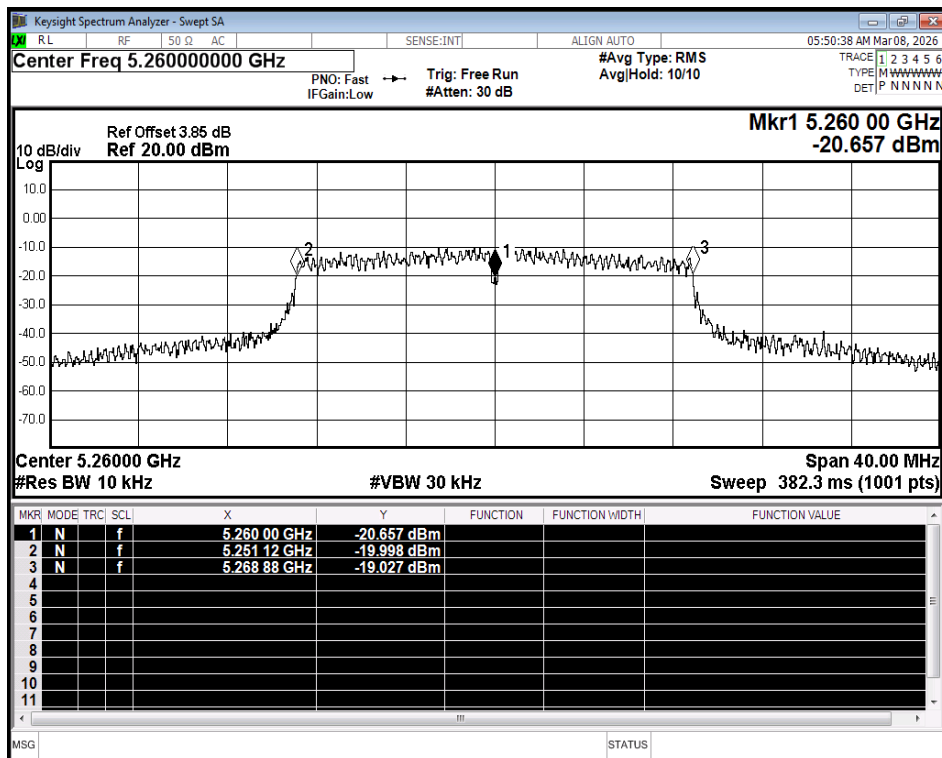
Freq. Stability NVNT n20 5320MHz Ant1



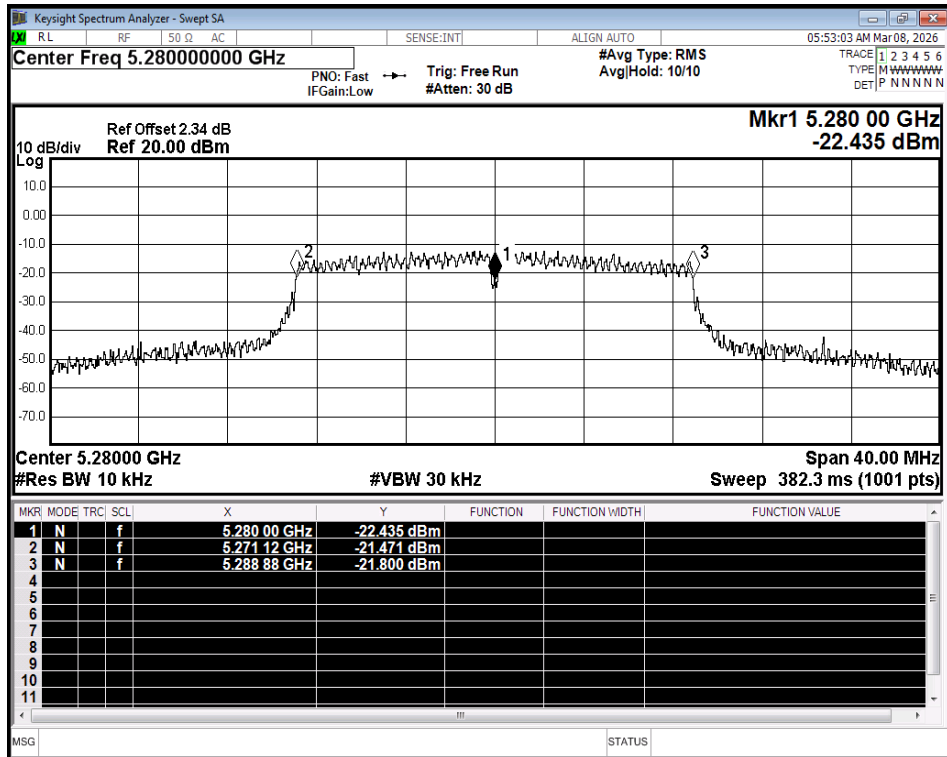
Freq. Stability NVNT n40 5270MHz Ant1



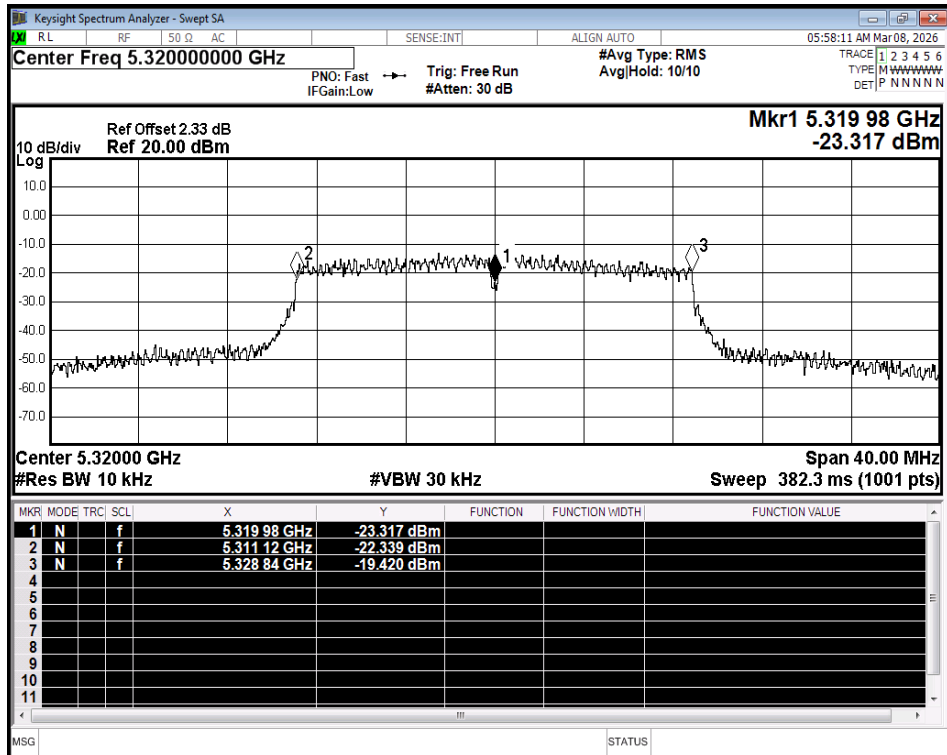
Freq. Stability NVNT n40 5310MHz Ant1



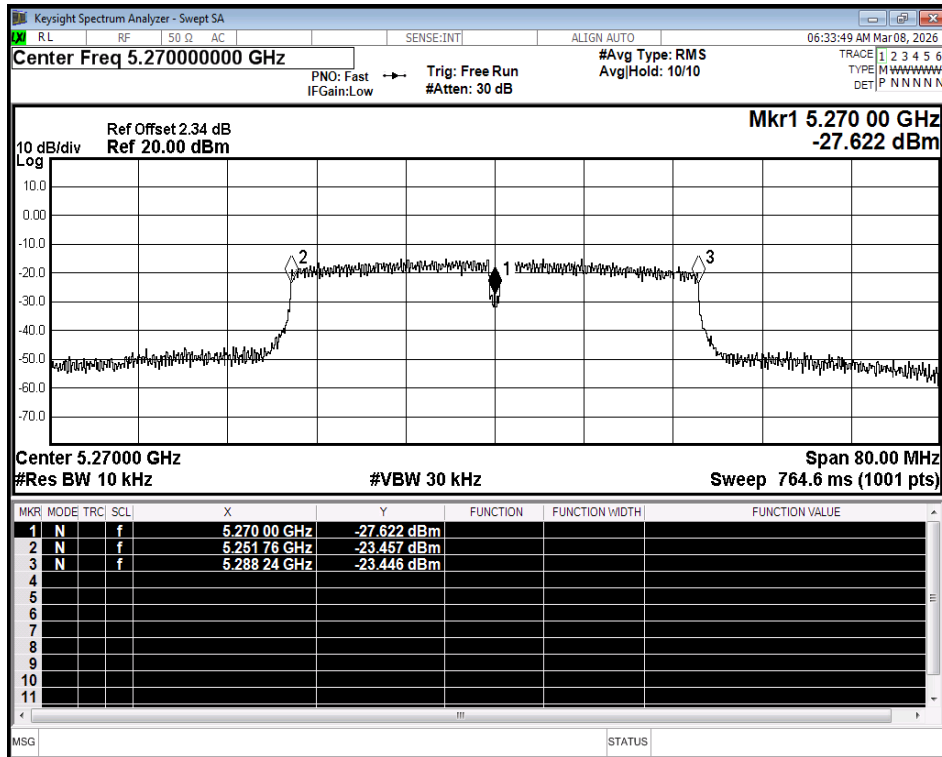
Freq. Stability NVNT ac20 5260MHz Ant1



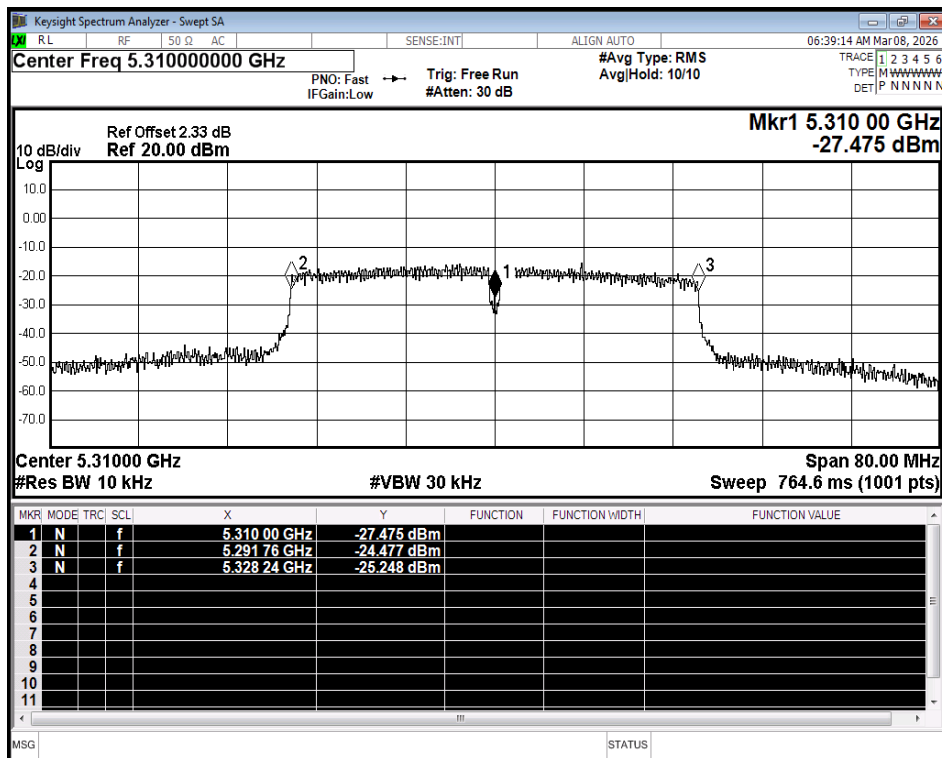
Freq. Stability NVNT ac20 5280MHz Ant1



Freq. Stability NVNT ac20 5320MHz Ant1



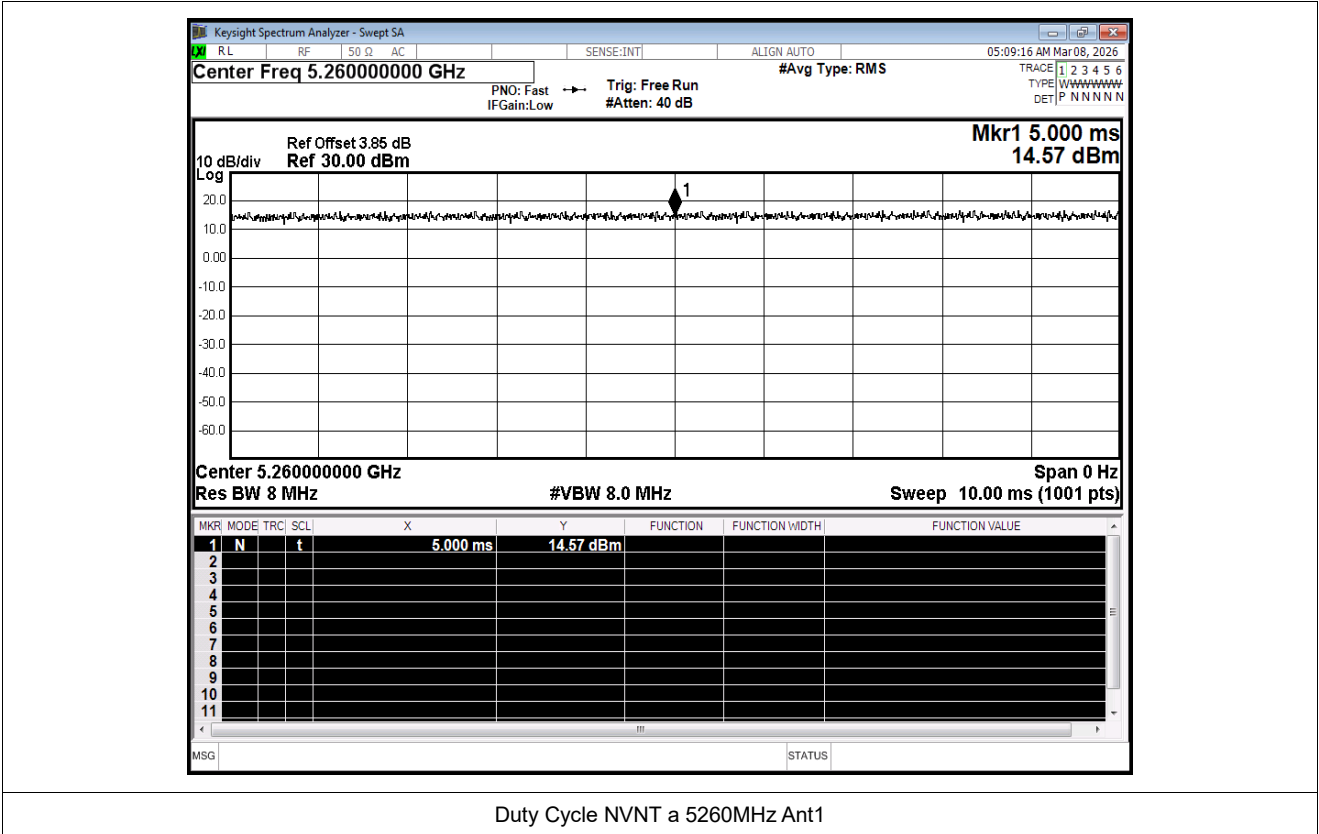
Freq. Stability NVNT ac40 5270MHz Ant1



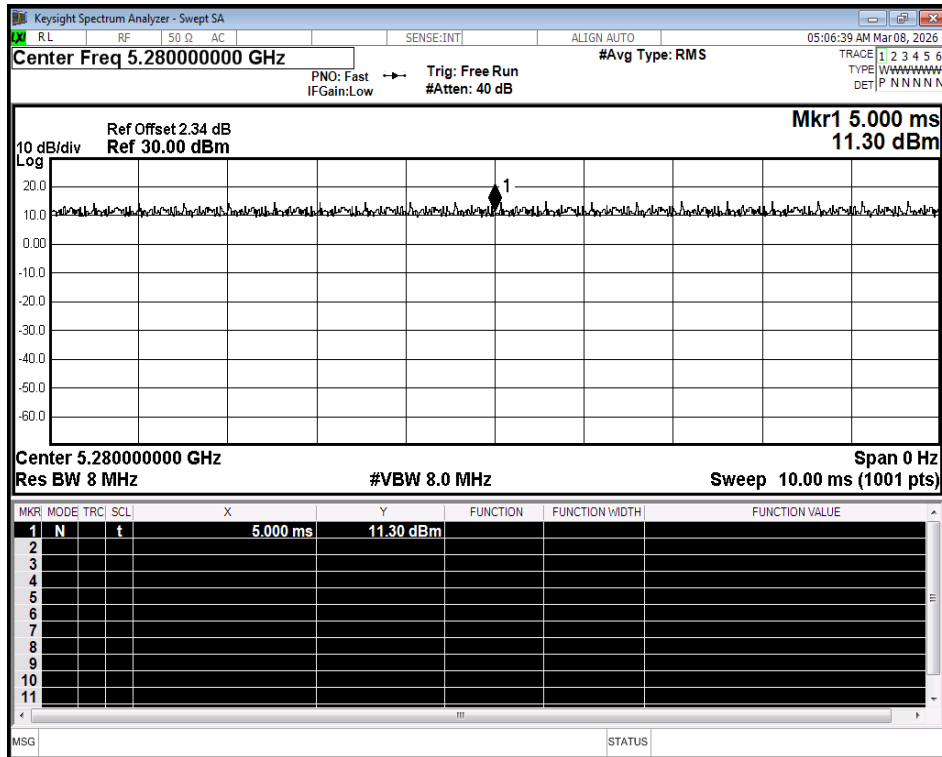
Freq. Stability NVNT ac40 5310MHz Ant1

6 Duty Cycle

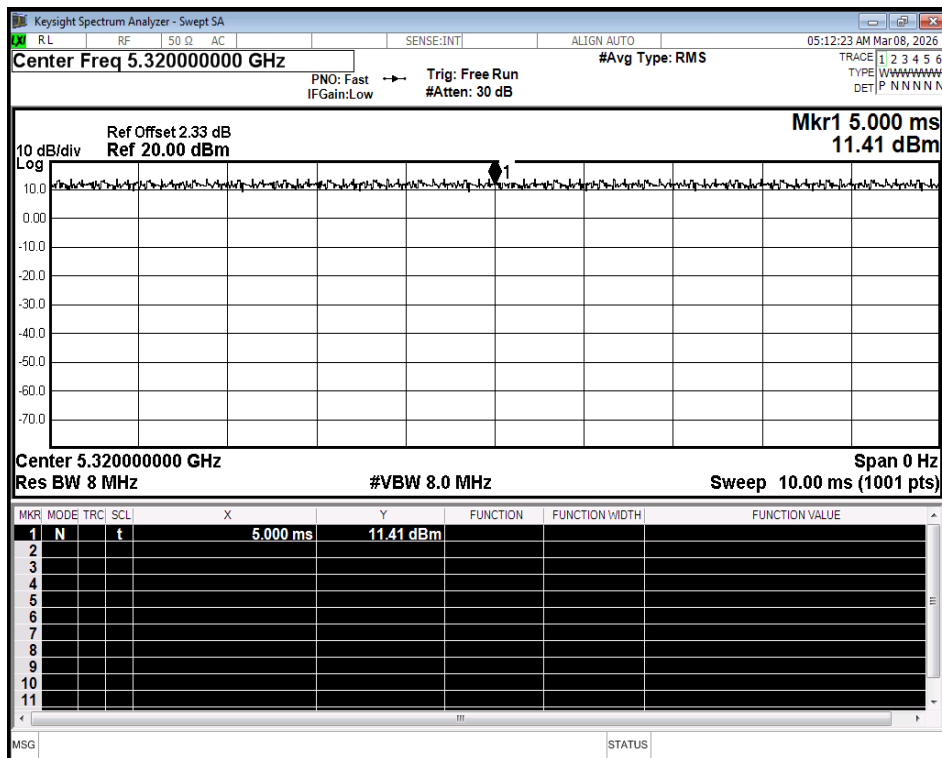
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	100	0	0
NVNT	a	5280	Ant1	100	0	0
NVNT	a	5320	Ant1	100	0	0
NVNT	n20	5260	Ant1	100	0	0
NVNT	n20	5280	Ant1	100	0	0
NVNT	n20	5320	Ant1	100	0	0
NVNT	n40	5270	Ant1	100	0	0
NVNT	n40	5310	Ant1	100	0	0
NVNT	ac20	5260	Ant1	100	0	0
NVNT	ac20	5280	Ant1	100	0	0
NVNT	ac20	5320	Ant1	100	0	0
NVNT	ac40	5270	Ant1	100	0	0
NVNT	ac40	5310	Ant1	100	0	0



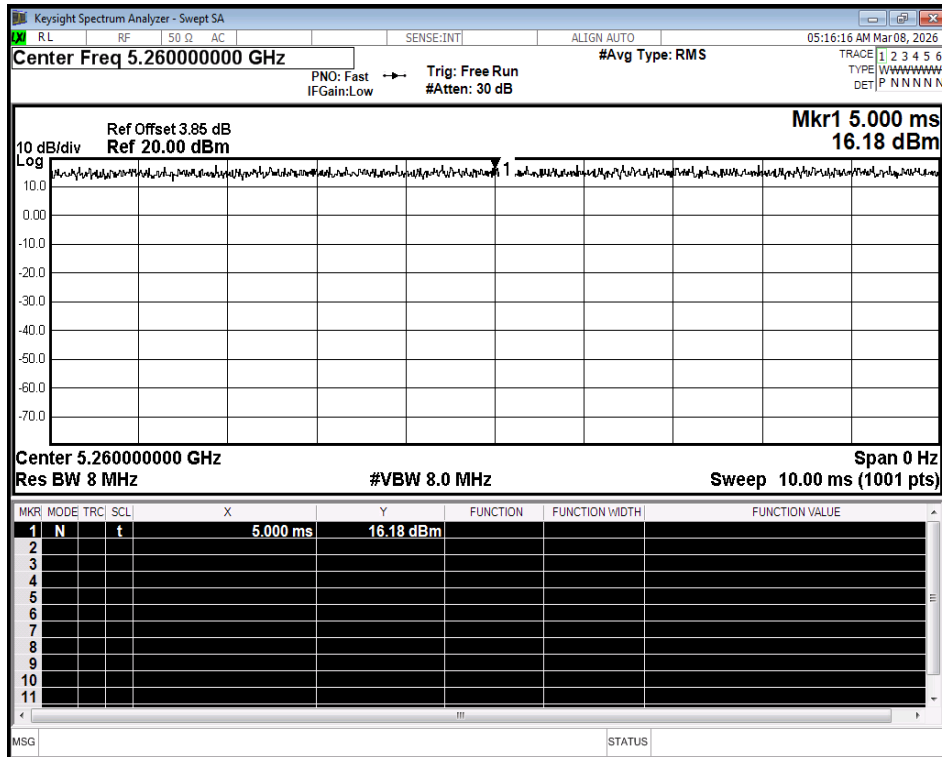
Duty Cycle NVNT a 5260MHz Ant1



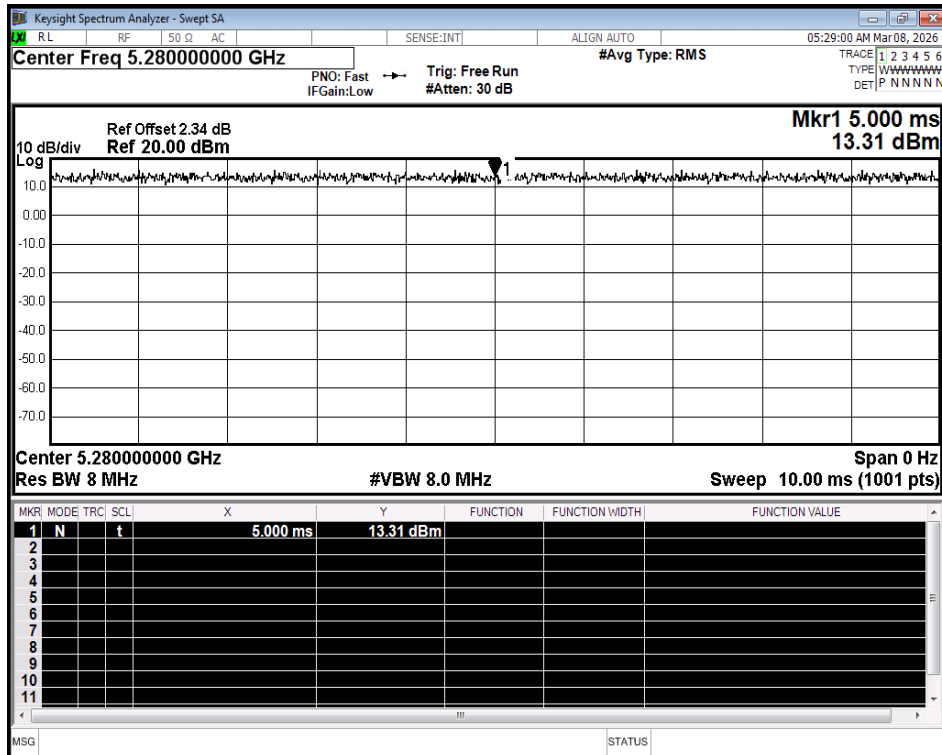
Duty Cycle NVNT a 5280MHz Ant1



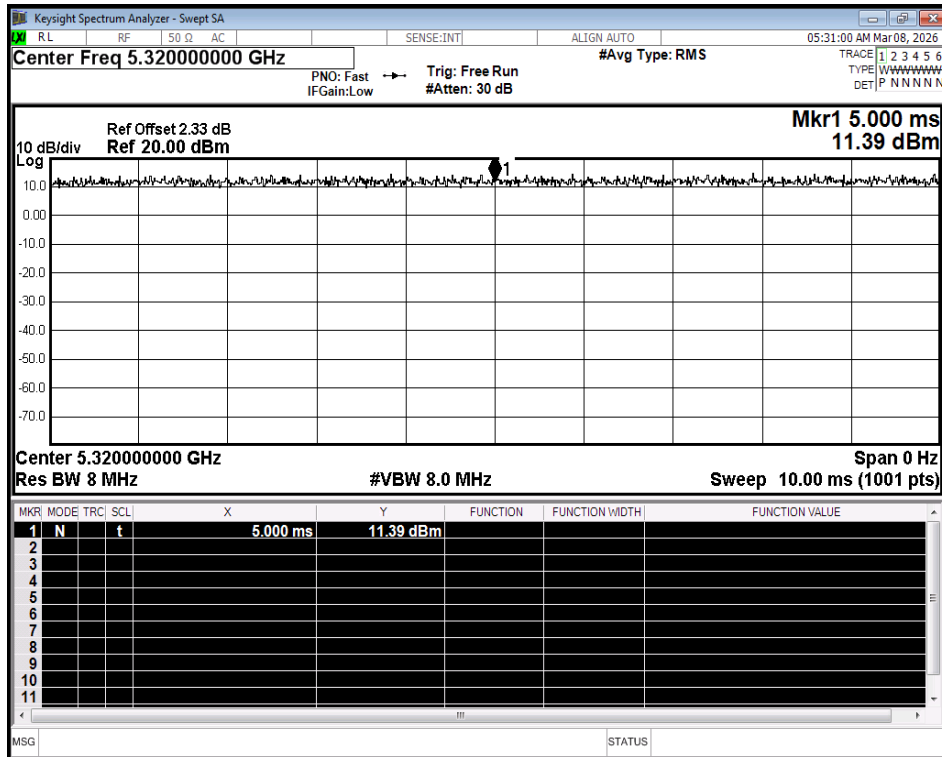
Duty Cycle NVNT a 5320MHz Ant1



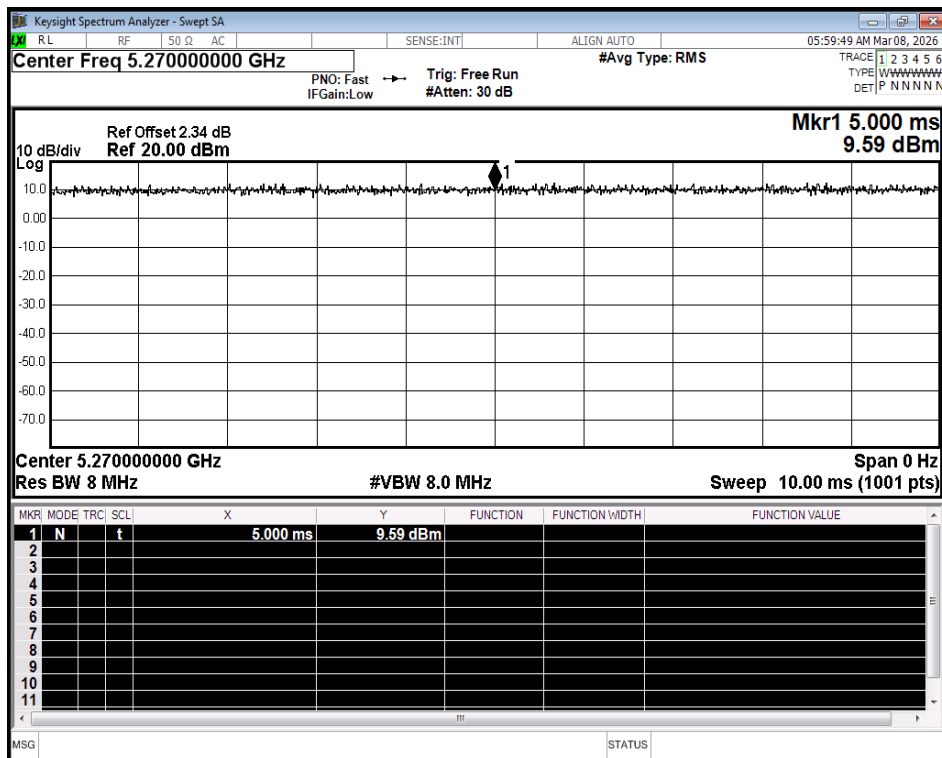
Duty Cycle NVNT n20 5260MHz Ant1



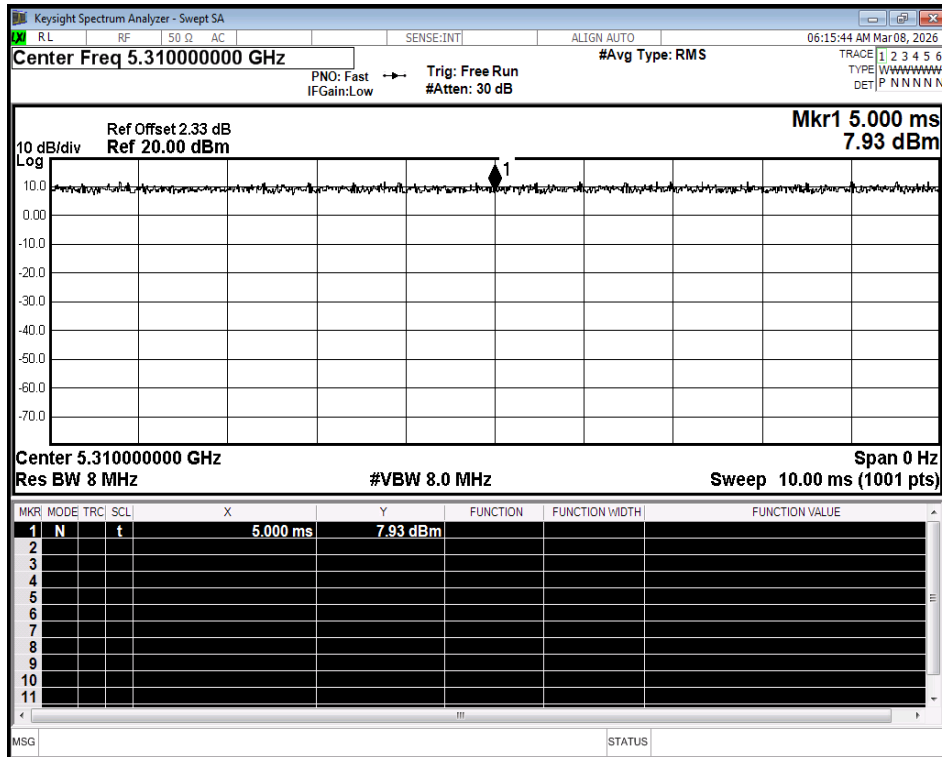
Duty Cycle NVNT n20 5280MHz Ant1



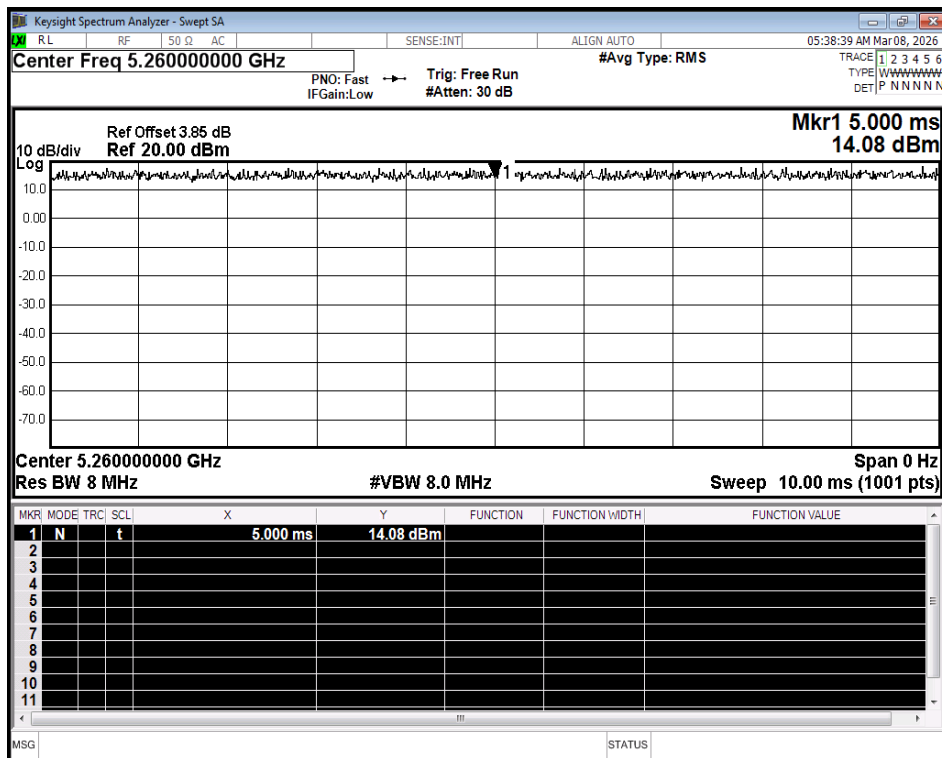
Duty Cycle NVNT n20 5320MHz Ant1



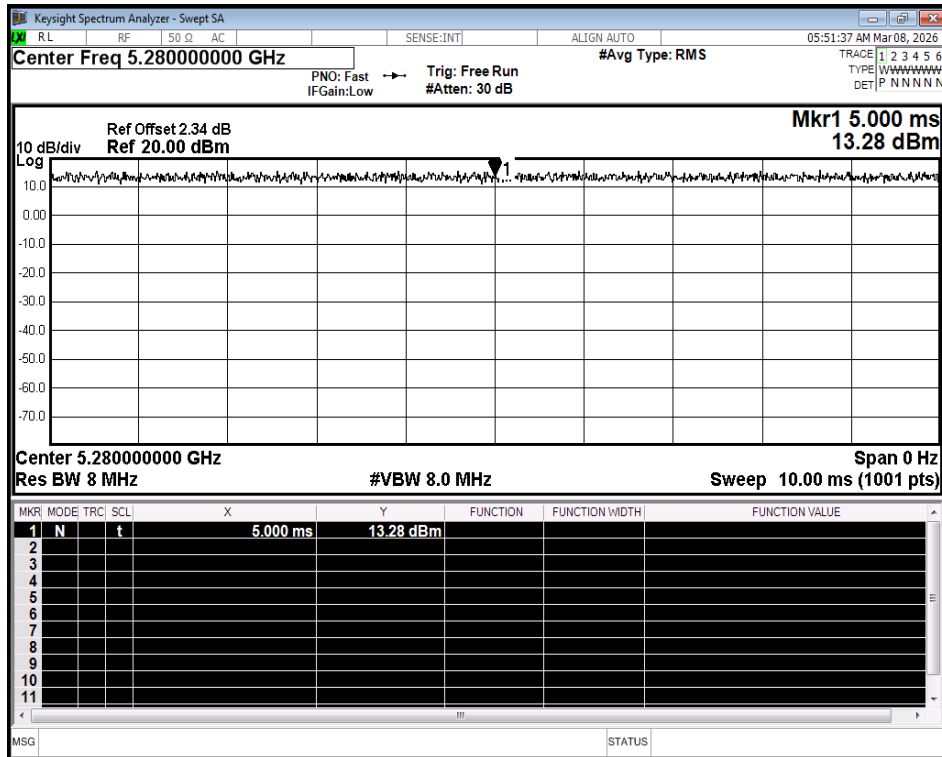
Duty Cycle NVNT n40 5270MHz Ant1



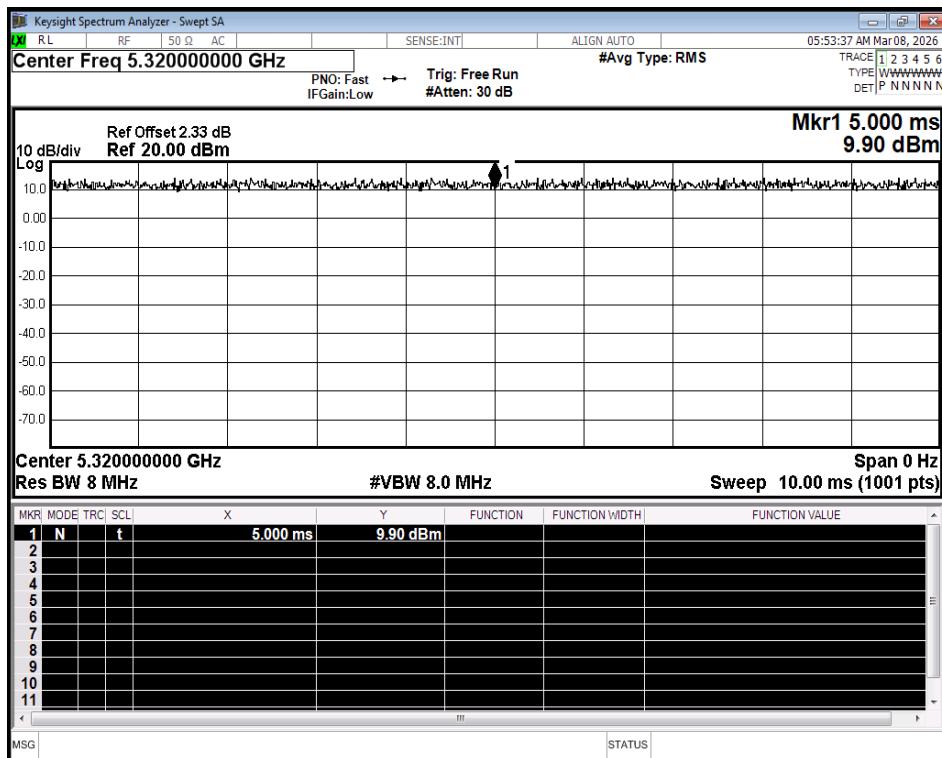
Duty Cycle NVNT n40 5310MHz Ant1



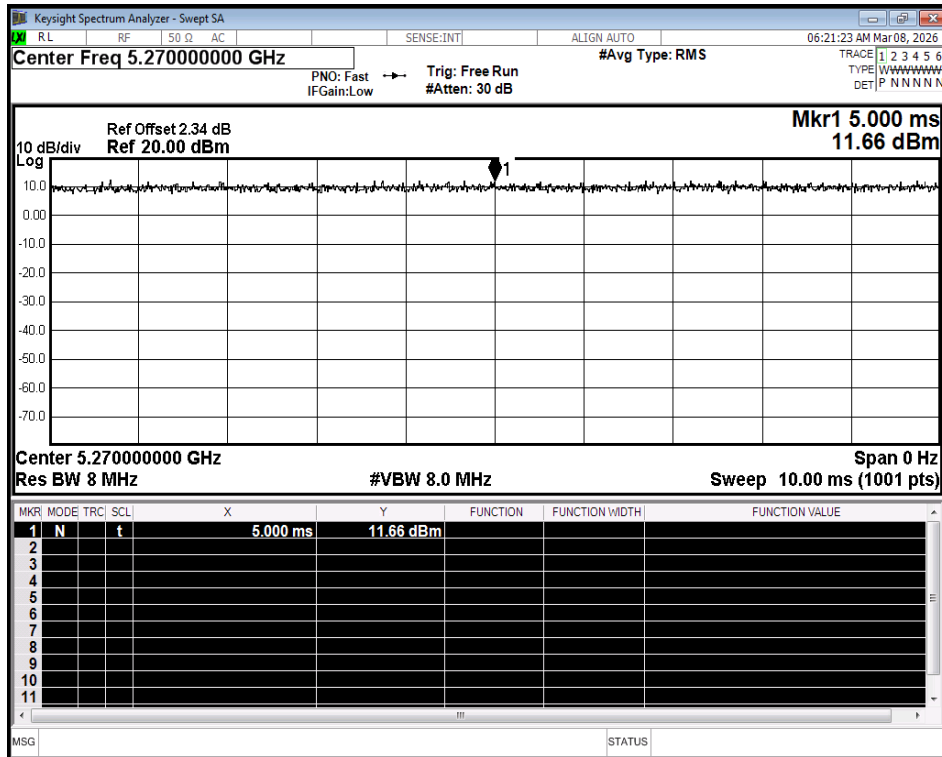
Duty Cycle NVNT ac20 5260MHz Ant1



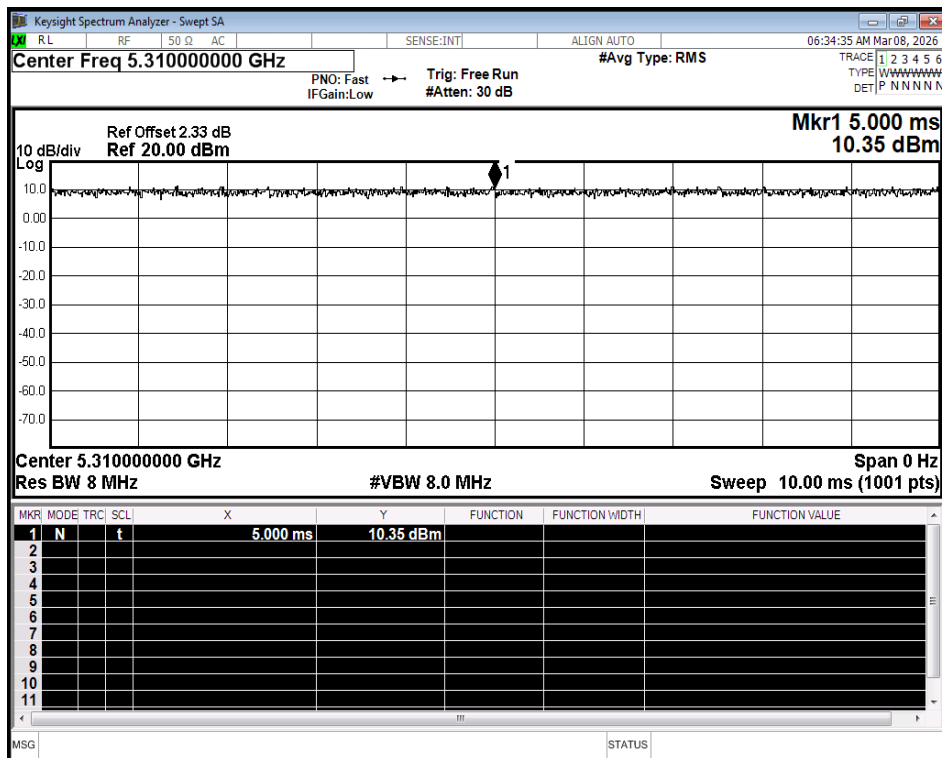
Duty Cycle NVNT ac20 5280MHz Ant1



Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1



Duty Cycle NVNT ac40 5310MHz Ant1