Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: K19

Environmental Conditions

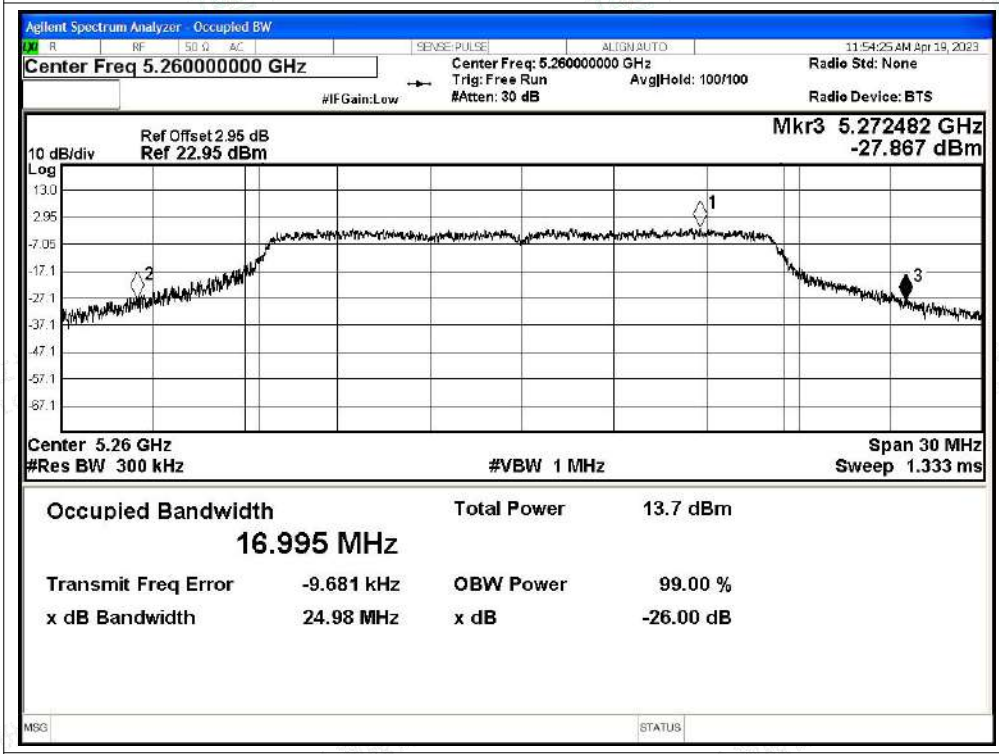
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu

E.1 -26dB Bandwidth

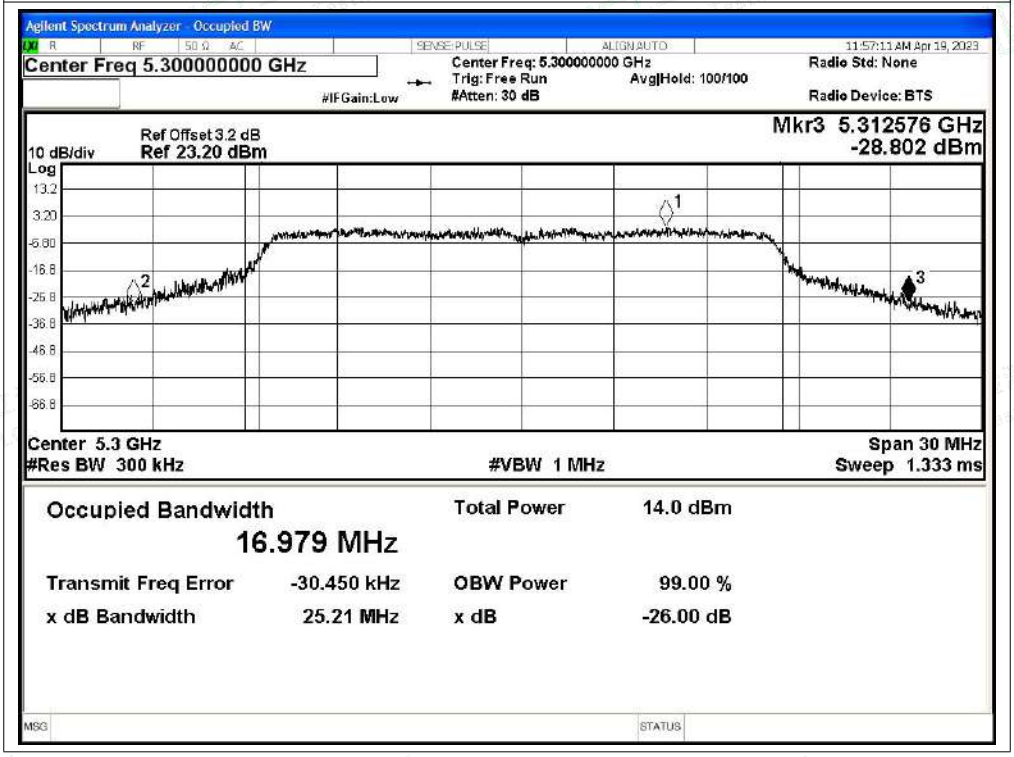
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	24.984	N/A	Pass
NVNT	a	5300	Ant1	25.212	N/A	Pass
NVNT	a	5320	Ant1	25.174	N/A	Pass
NVNT	n20	5260	Ant1	25.764	N/A	Pass
NVNT	n20	5300	Ant1	25.909	N/A	Pass
NVNT	n20	5320	Ant1	24.974	N/A	Pass
NVNT	n40	5270	Ant1	44.827	N/A	Pass
NVNT	n40	5310	Ant1	46.025	N/A	Pass
NVNT	ac20	5260	Ant1	27.225	N/A	Pass
NVNT	ac20	5300	Ant1	27.101	N/A	Pass
NVNT	ac20	5320	Ant1	26.79	N/A	Pass
NVNT	ac40	5270	Ant1	45.911	N/A	Pass
NVNT	ac40	5310	Ant1	44.765	N/A	Pass
NVNT	ax20	5260	Ant1	25.705	N/A	Pass
NVNT	ax20	5300	Ant1	25.37	N/A	Pass
NVNT	ax20	5320	Ant1	24.411	N/A	Pass
NVNT	ax40	5270	Ant1	43.427	N/A	Pass
NVNT	ax40	5310	Ant1	42.226	N/A	Pass

Test Graphs

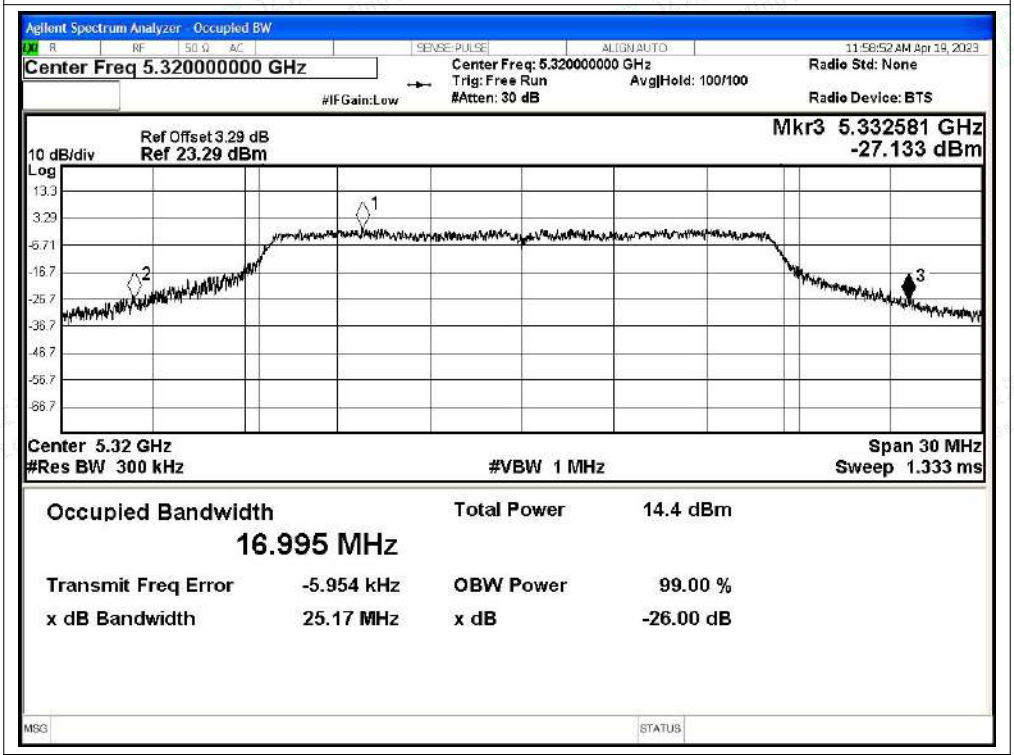
-26dB Bandwidth NVNT a 5260MHz Ant1



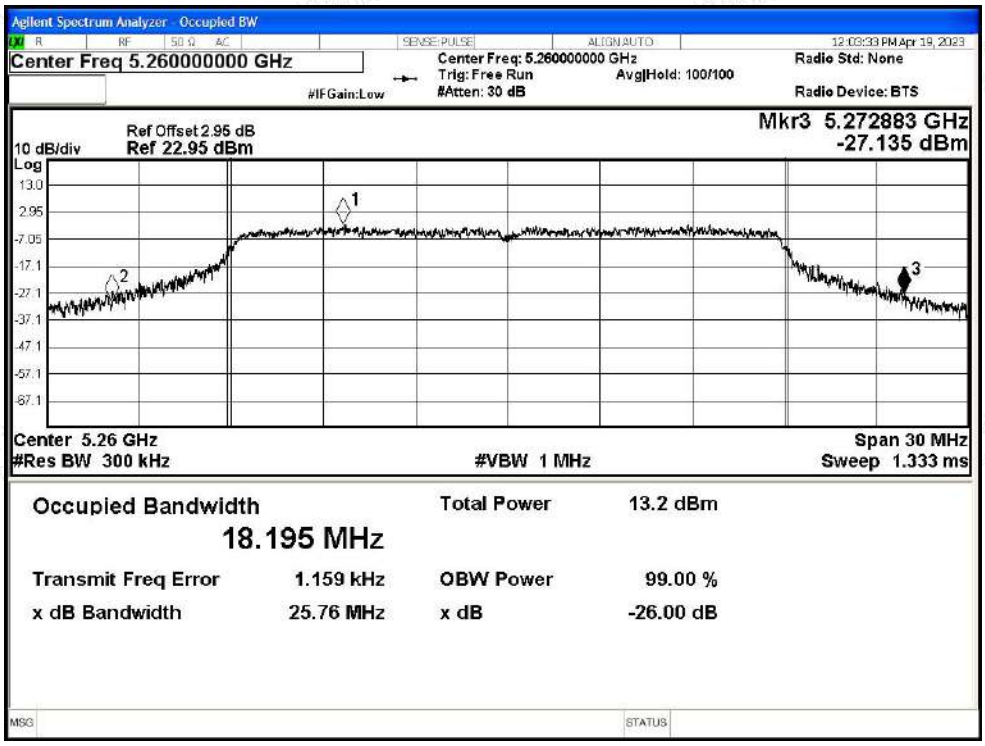
-26dB Bandwidth NVNT a 5300MHz Ant1



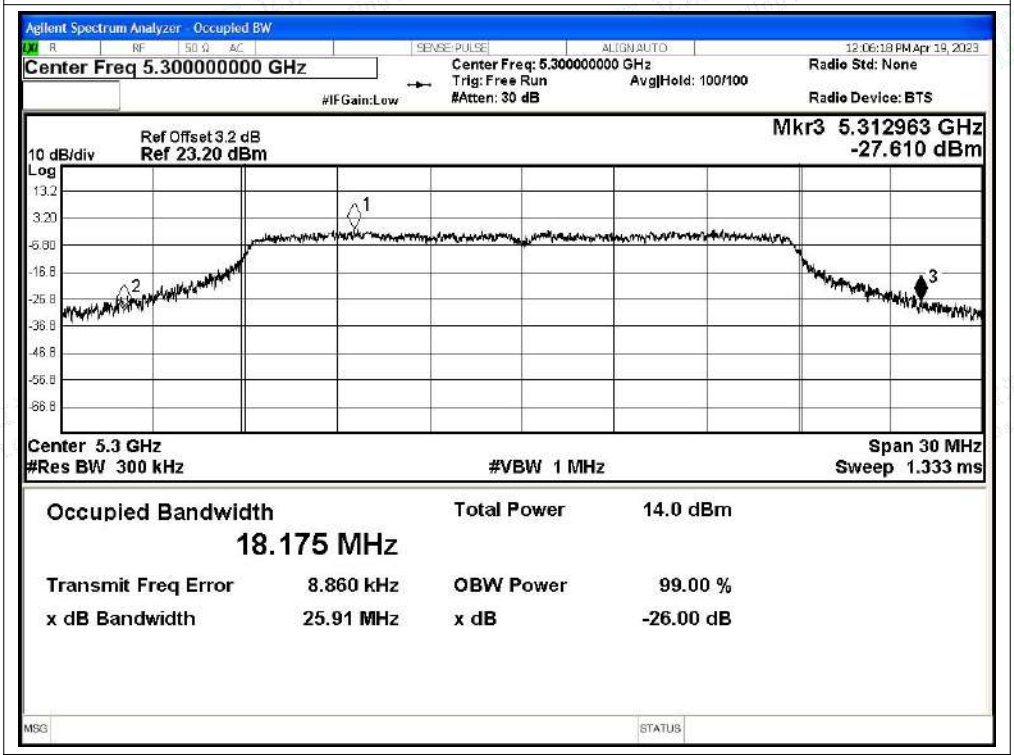
-26dB Bandwidth NVNT a 5320MHz Ant1



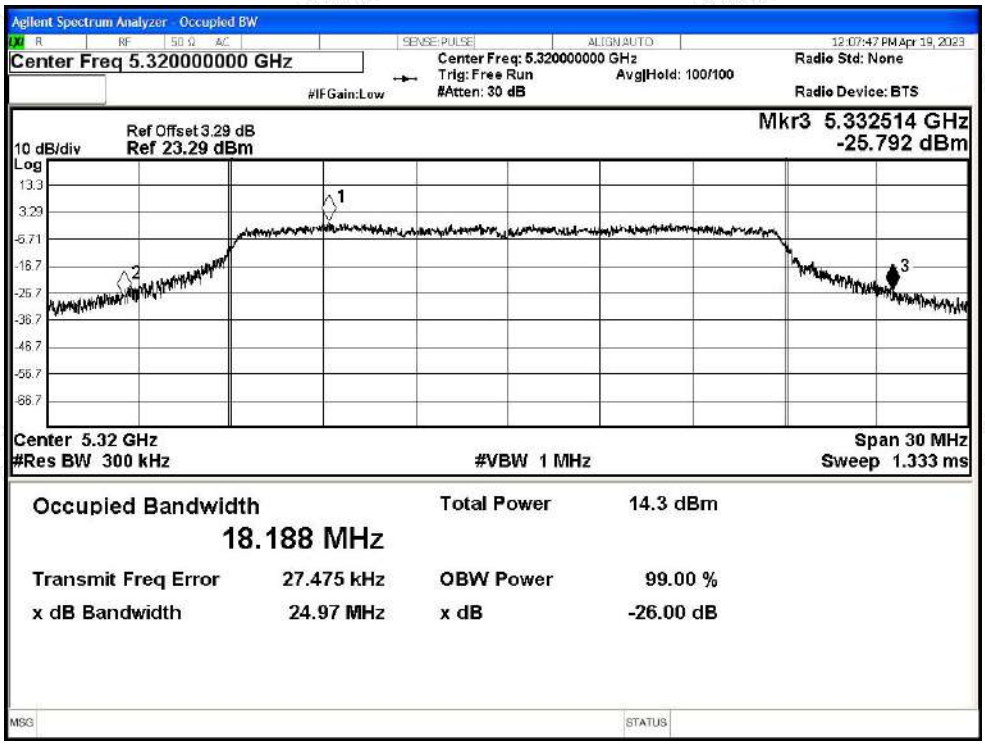
-26dB Bandwidth NVNT n20 5260MHz Ant1



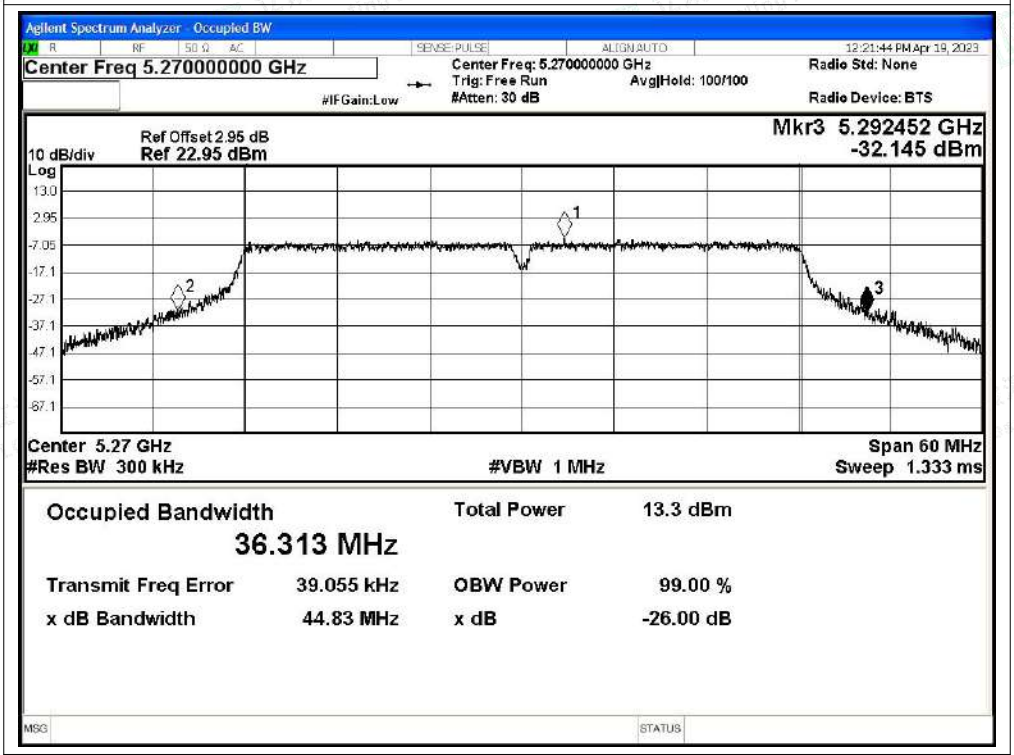
-26dB Bandwidth NVNT n20 5300MHz Ant1



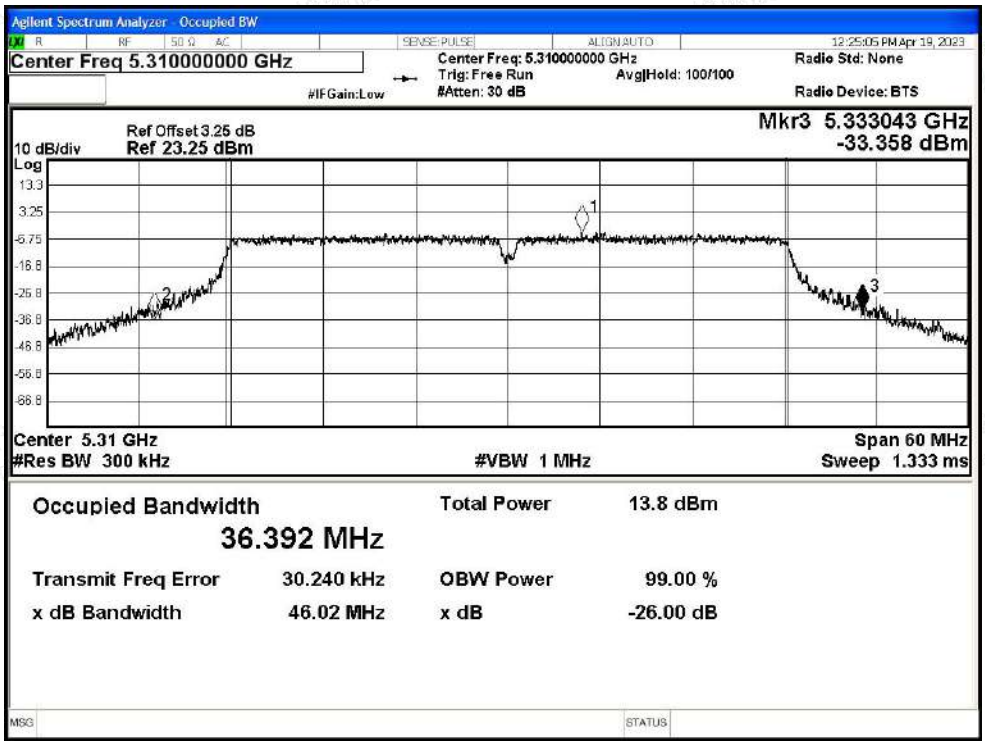
-26dB Bandwidth NVNT n20 5320MHz Ant1



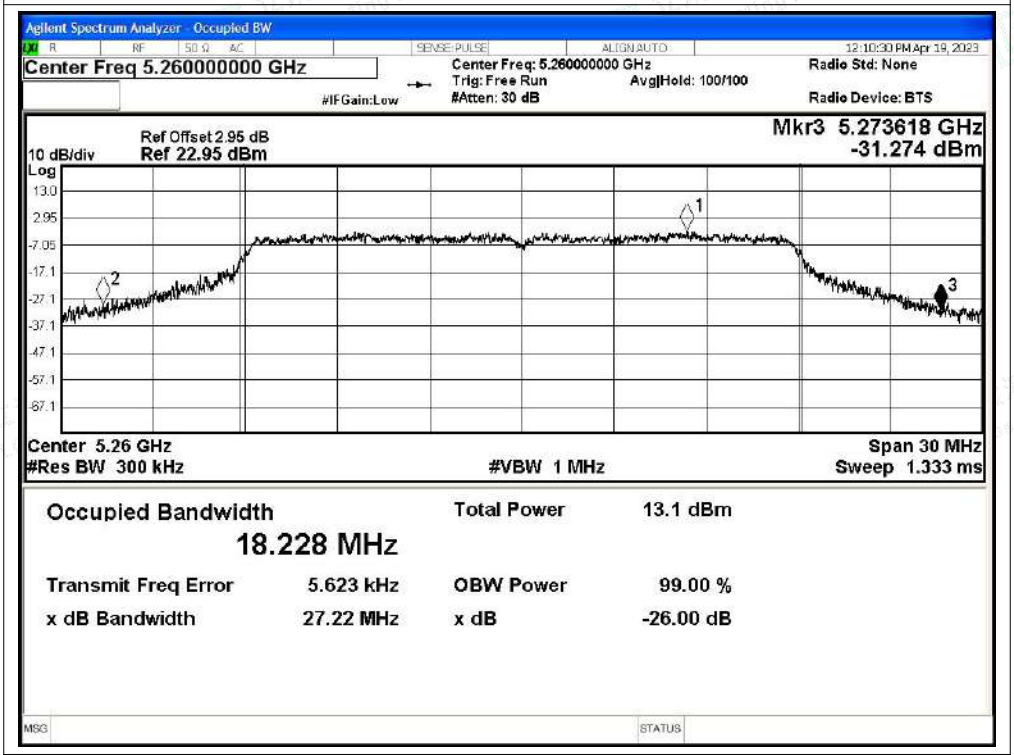
-26dB Bandwidth NVNT n40 5270MHz Ant1



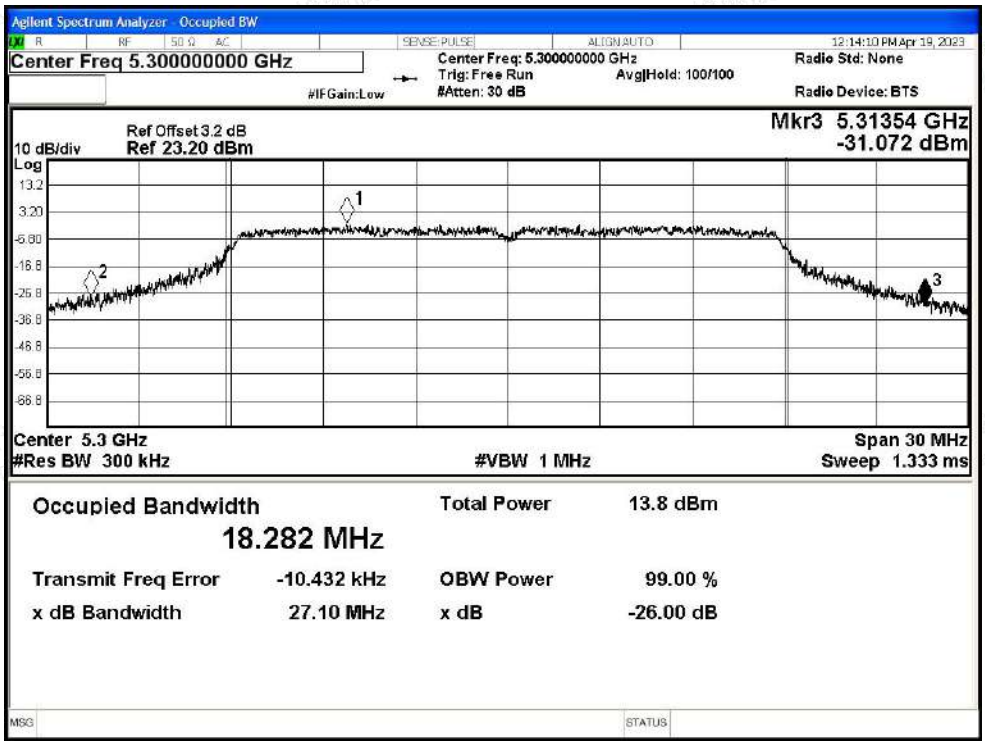
-26dB Bandwidth NVNT n40 5310MHz Ant1



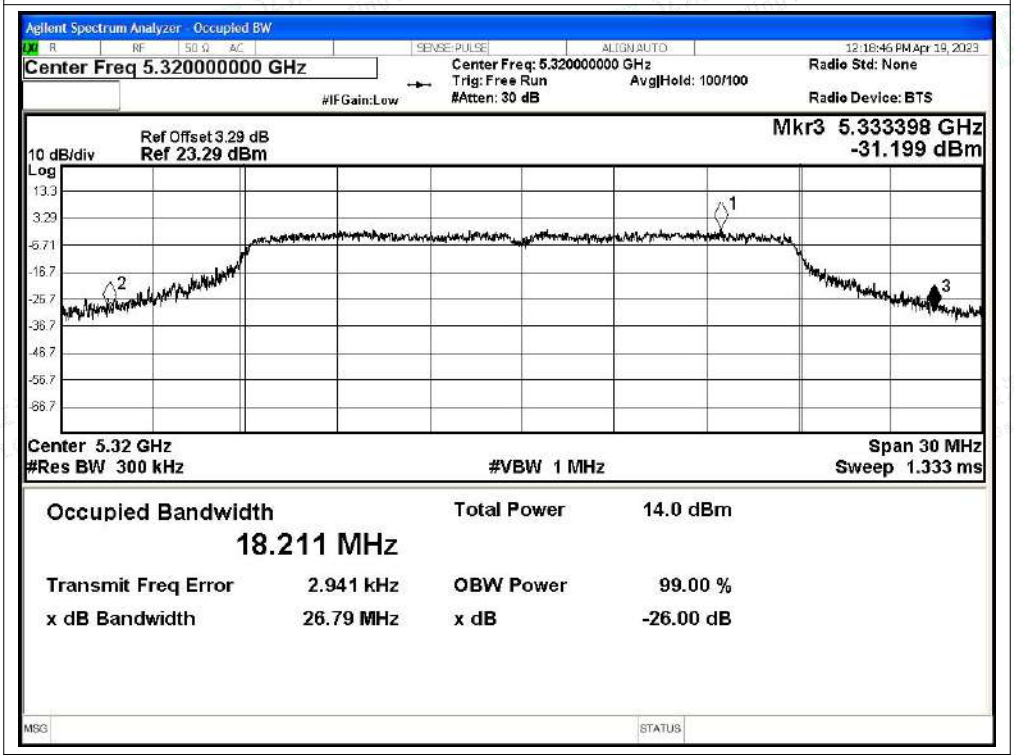
-26dB Bandwidth NVNT ac20 5260MHz Ant1



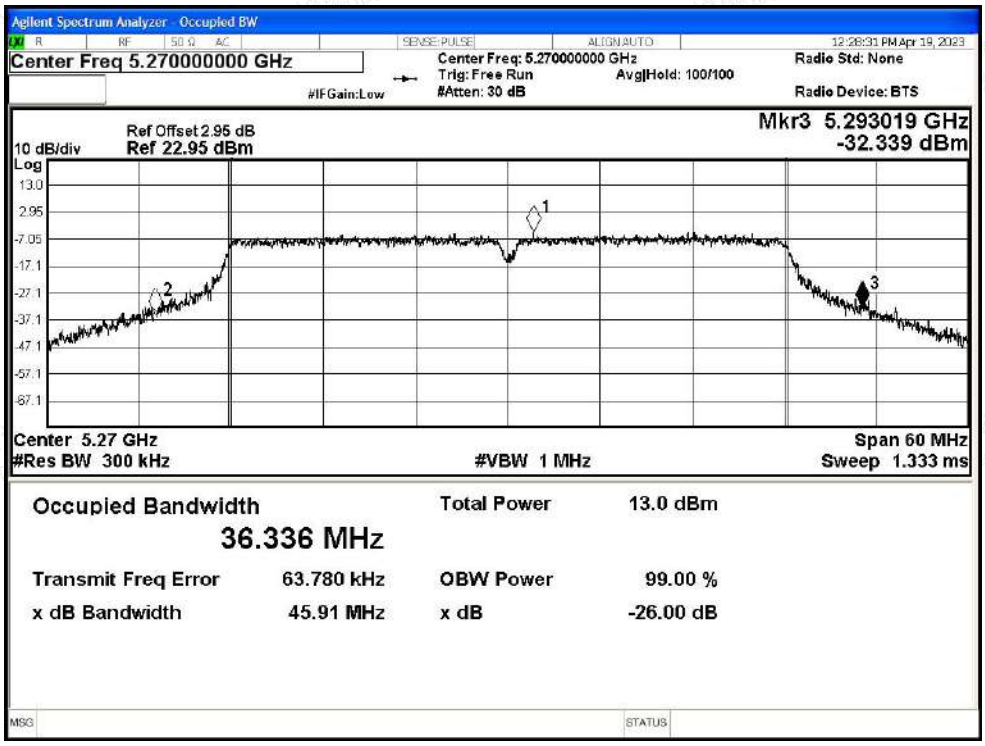
-26dB Bandwidth NVNT ac20 5300MHz Ant1



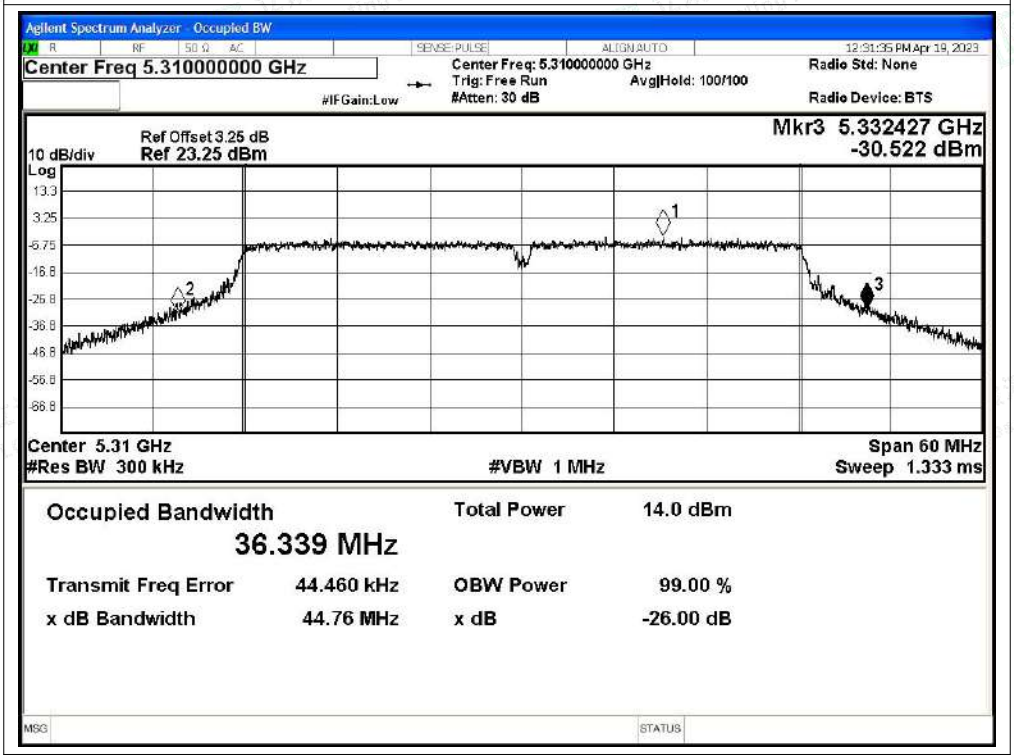
-26dB Bandwidth NVNT ac20 5320MHz Ant1



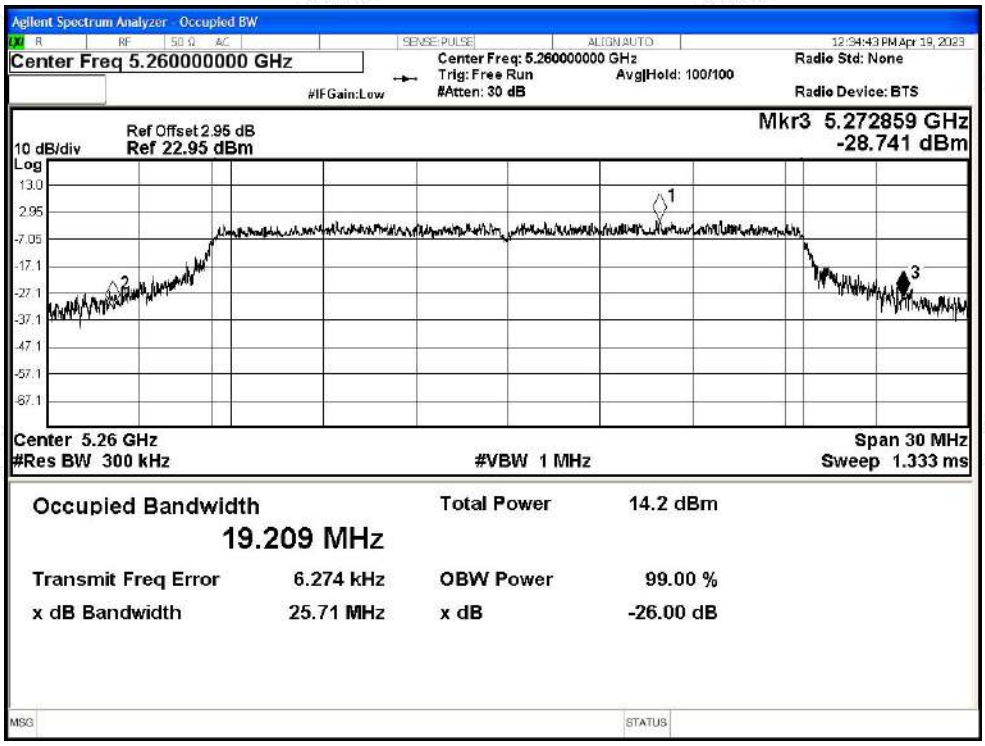
-26dB Bandwidth NVNT ac40 5270MHz Ant1



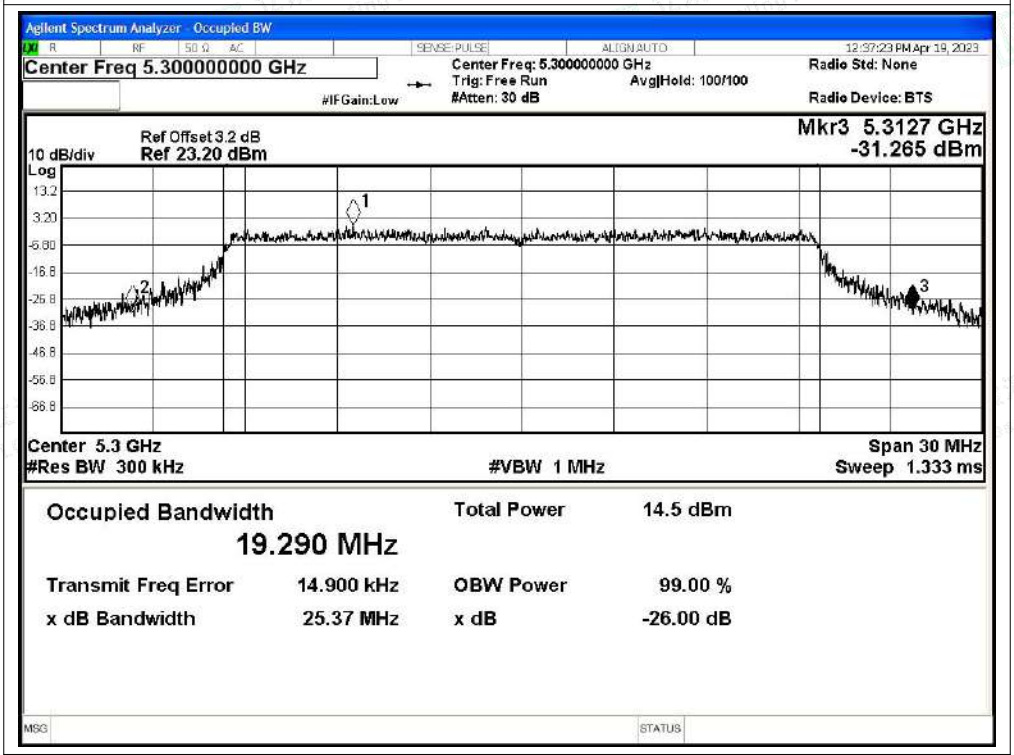
-26dB Bandwidth NVNT ac40 5310MHz Ant1



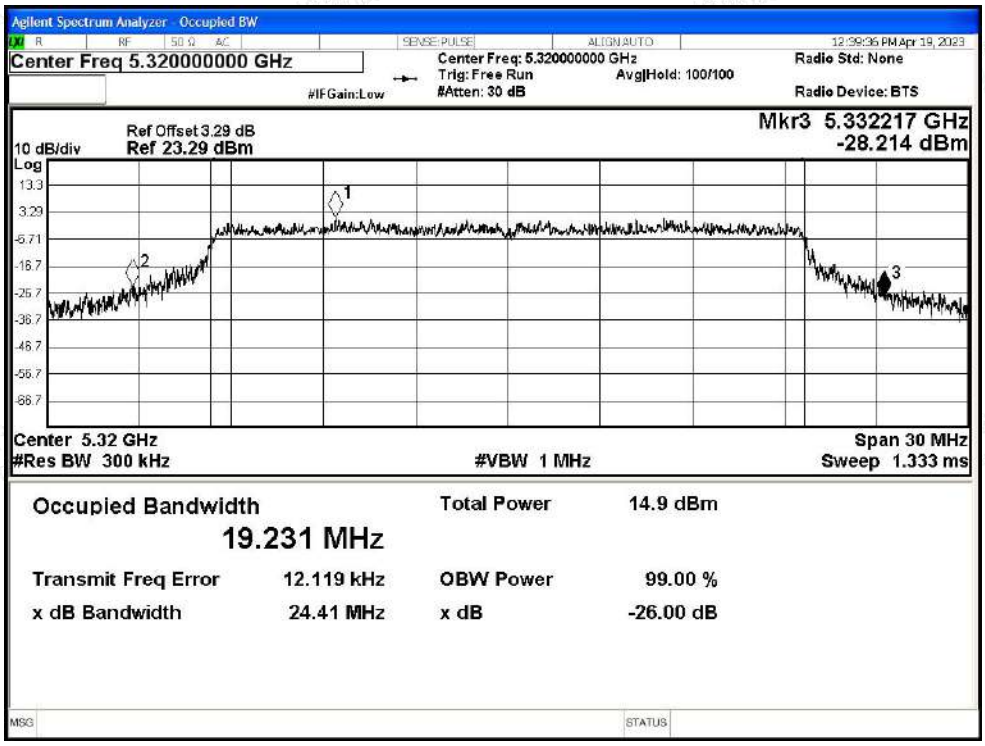
-26dB Bandwidth NVNT ax20 5260MHz Ant1



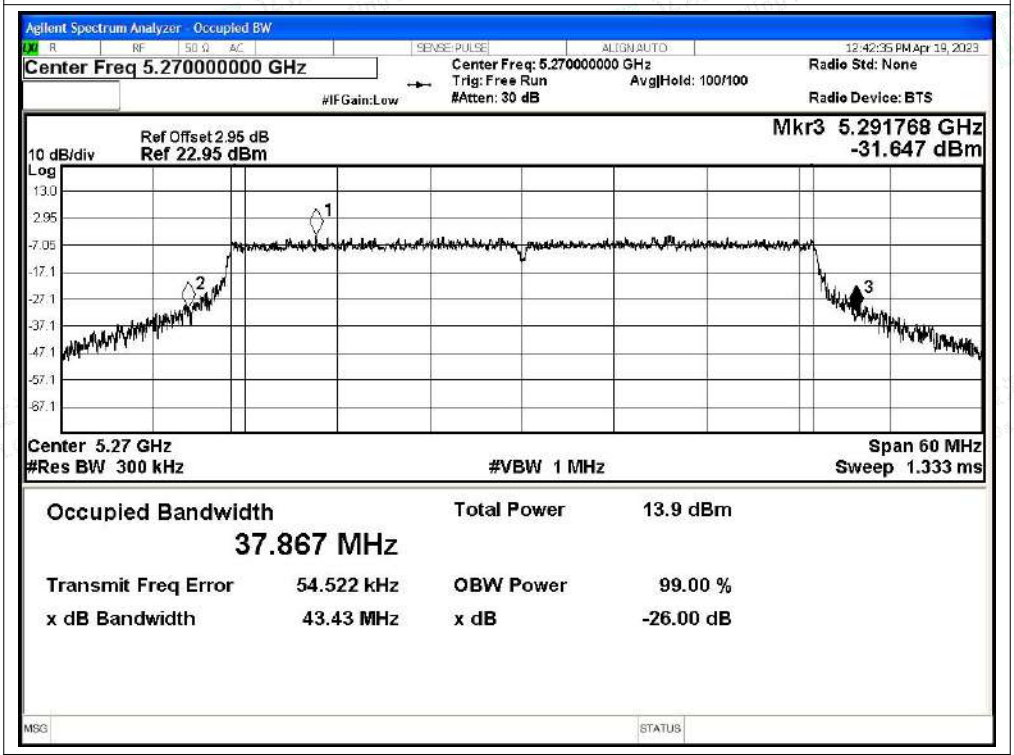
-26dB Bandwidth NVNT ax20 5300MHz Ant1



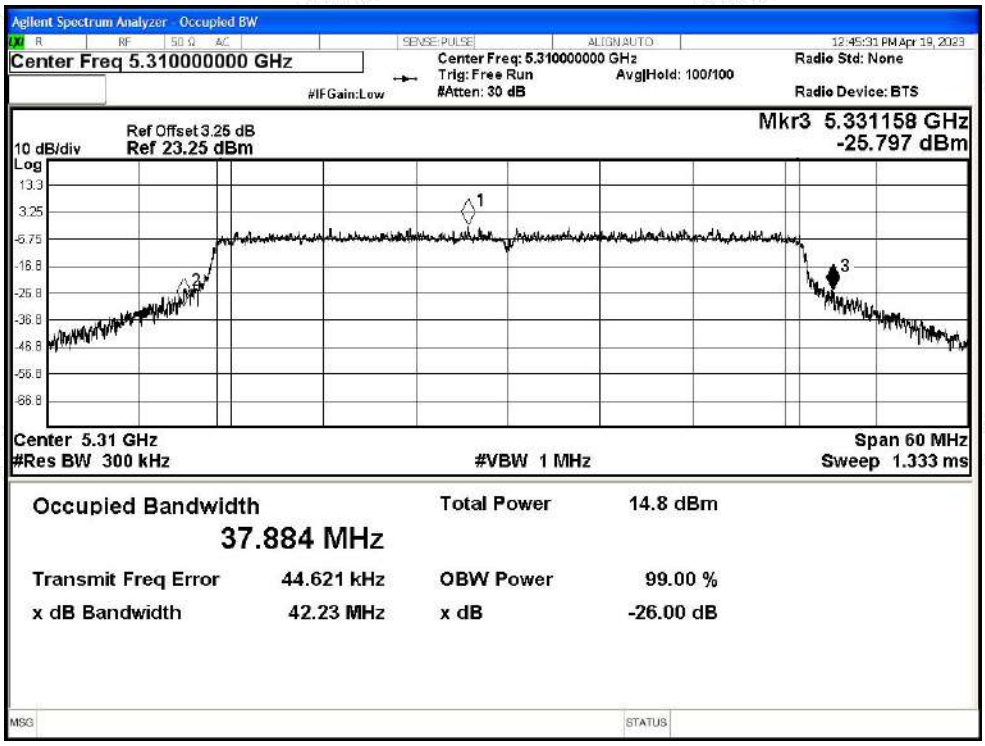
-26dB Bandwidth NVNT ax20 5320MHz Ant1



-26dB Bandwidth NVNT ax40 5270MHz Ant1



-26dB Bandwidth NVNT ax40 5310MHz Ant1



E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	7.03	24	Pass
NVNT	a	5300	Ant1	7.57	24	Pass
NVNT	a	5320	Ant1	7.86	24	Pass
NVNT	n20	5260	Ant1	7.52	24	Pass
NVNT	n20	5300	Ant1	7.35	24	Pass
NVNT	n20	5320	Ant1	7.61	24	Pass
NVNT	n40	5270	Ant1	7.15	24	Pass
NVNT	n40	5310	Ant1	7.29	24	Pass
NVNT	ac20	5260	Ant1	7.88	24	Pass
NVNT	ac20	5300	Ant1	7.15	24	Pass
NVNT	ac20	5320	Ant1	7.46	24	Pass
NVNT	ac40	5270	Ant1	7.65	24	Pass
NVNT	ac40	5310	Ant1	7.67	24	Pass
NVNT	ax20	5260	Ant1	7.38	24	Pass
NVNT	ax20	5300	Ant1	7.09	24	Pass
NVNT	ax20	5320	Ant1	7.70	24	Pass
NVNT	ax40	5270	Ant1	6.85	24	Pass
NVNT	ax40	5310	Ant1	7.90	24	Pass

Note: The Duty factor is included in the total power.

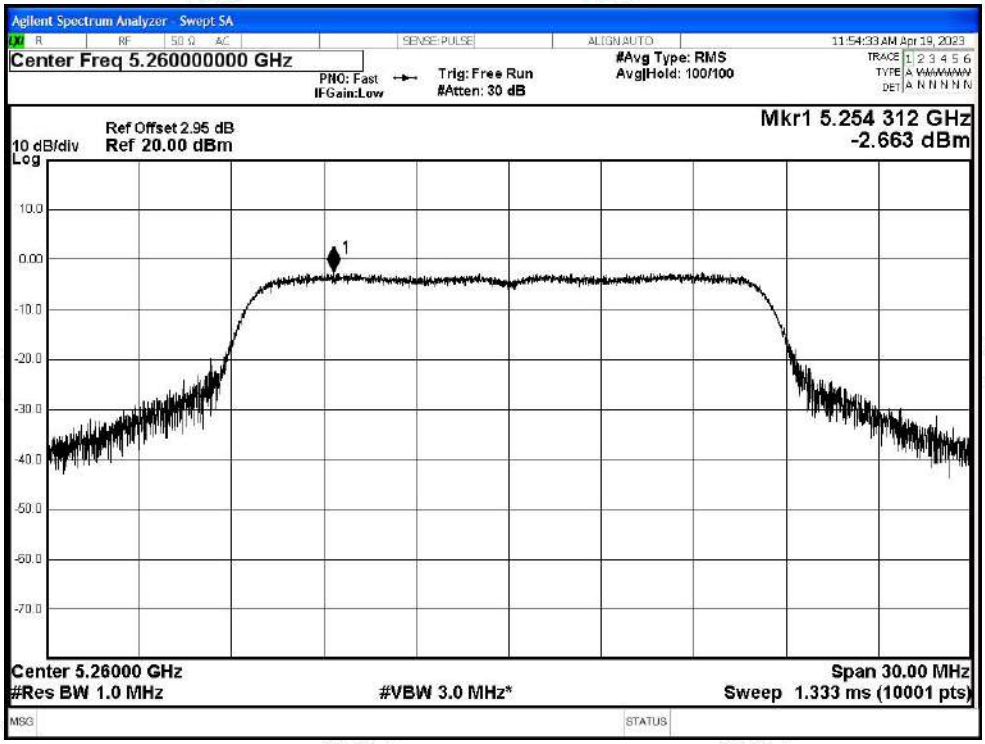
D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-2.66	0.22	-2.44	11	Pass
NVNT	a	5300	Ant1	-1.88	0.25	-1.63	11	Pass
NVNT	a	5320	Ant1	-1.82	0.12	-1.7	11	Pass
NVNT	n20	5260	Ant1	-3.07	0.23	-2.84	11	Pass
NVNT	n20	5300	Ant1	-2.34	0.19	-2.15	11	Pass
NVNT	n20	5320	Ant1	-2.36	0.15	-2.21	11	Pass
NVNT	n40	5270	Ant1	-6.7	0.19	-6.51	11	Pass
NVNT	n40	5310	Ant1	-6.19	0.42	-5.77	11	Pass
NVNT	ac20	5260	Ant1	-3.4	0.13	-3.27	11	Pass
NVNT	ac20	5300	Ant1	-2.66	0.13	-2.53	11	Pass
NVNT	ac20	5320	Ant1	-2.42	0.23	-2.19	11	Pass
NVNT	ac40	5270	Ant1	-6.9	0.64	-6.26	11	Pass
NVNT	ac40	5310	Ant1	-5.91	0.68	-5.23	11	Pass
NVNT	ax20	5260	Ant1	-3.64	0.33	-3.31	11	Pass
NVNT	ax20	5300	Ant1	-3.09	0.25	-2.84	11	Pass
NVNT	ax20	5320	Ant1	-2.34	0.57	-1.77	11	Pass
NVNT	ax40	5270	Ant1	-7.2	0.66	-6.54	11	Pass
NVNT	ax40	5310	Ant1	-6.15	0.85	-5.3	11	Pass

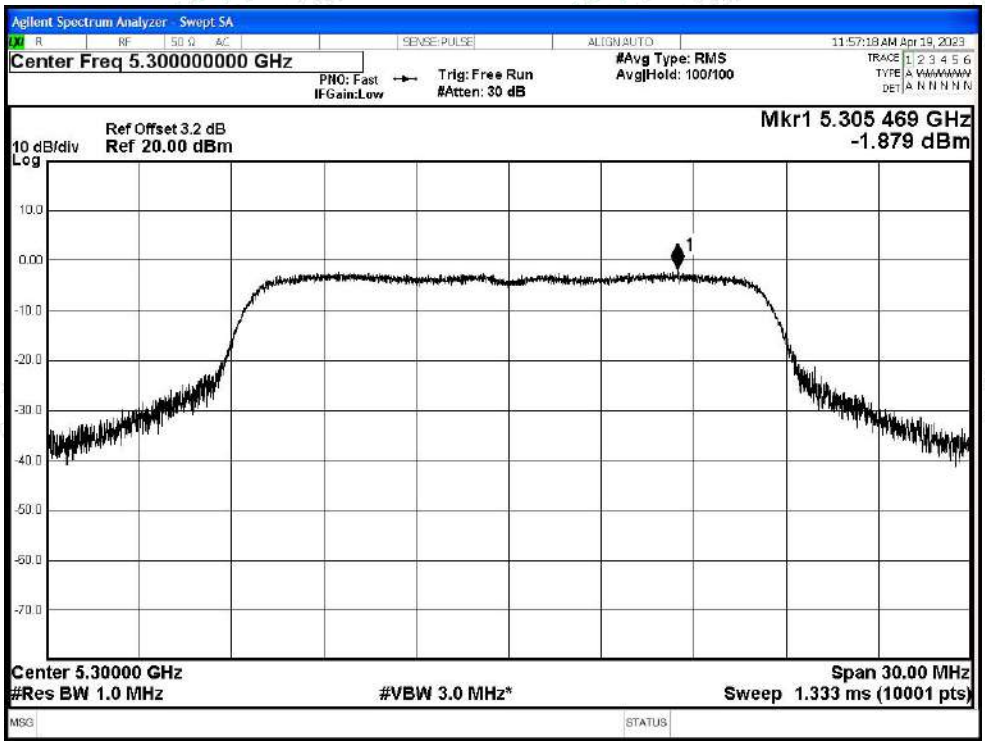
Note: The Duty factor is included in the total PSD.

Test Graphs

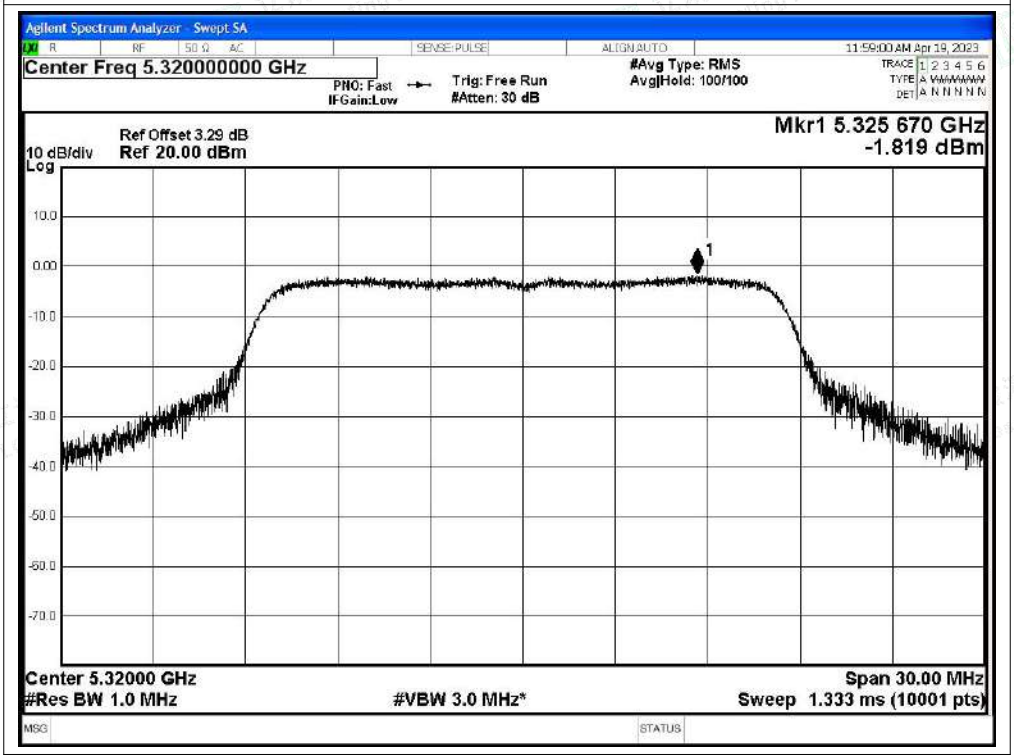
PSD NVNT a 5260MHz Ant1



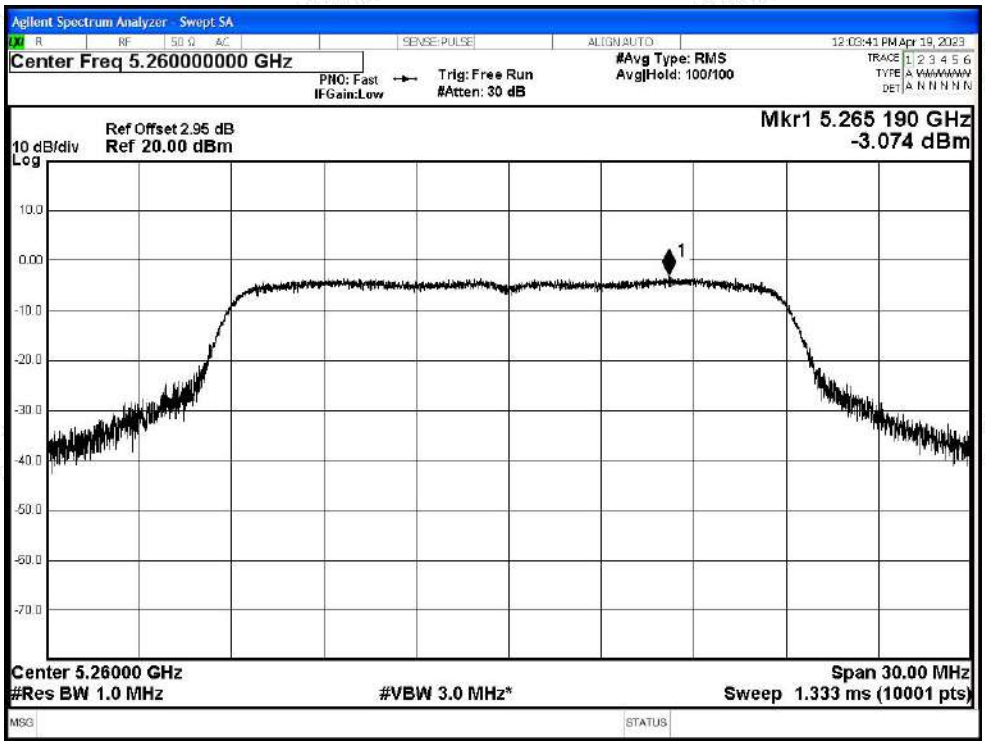
PSD NVNT a 5300MHz Ant1



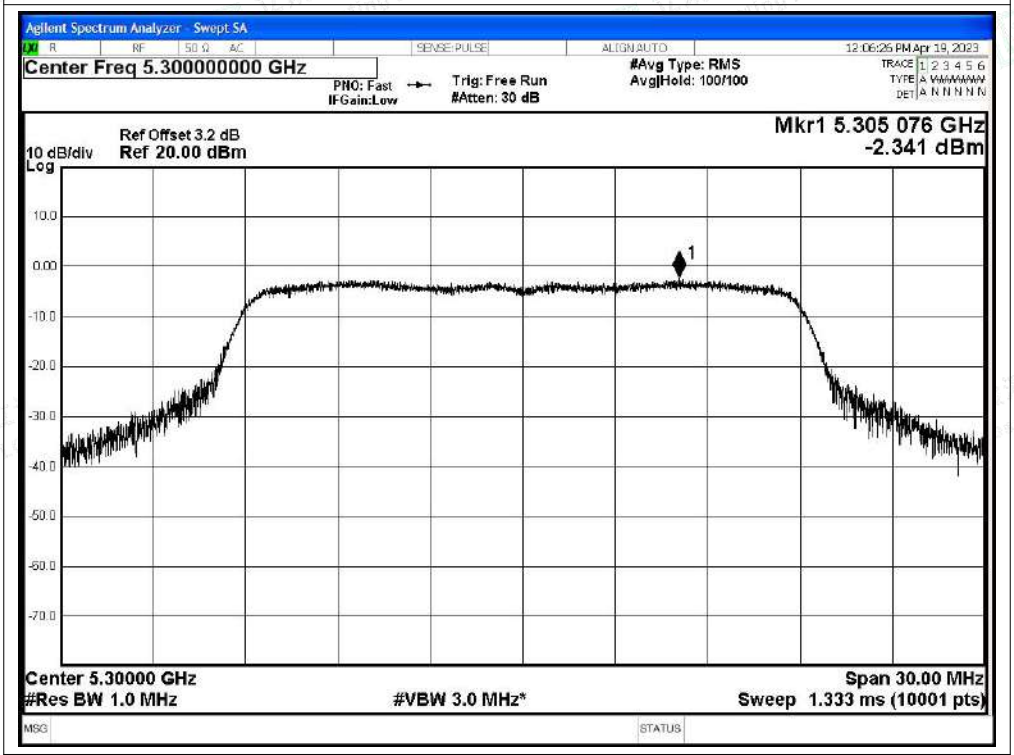
PSD NVNT a 5320MHz Ant1



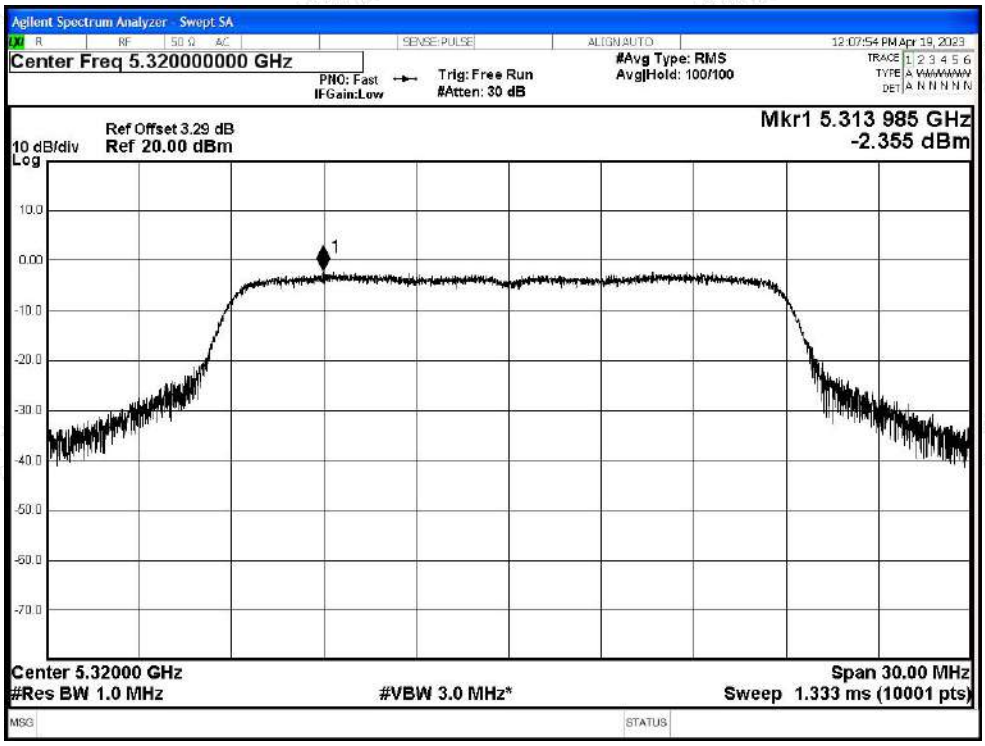
PSD NVNT n20 5260MHz Ant1



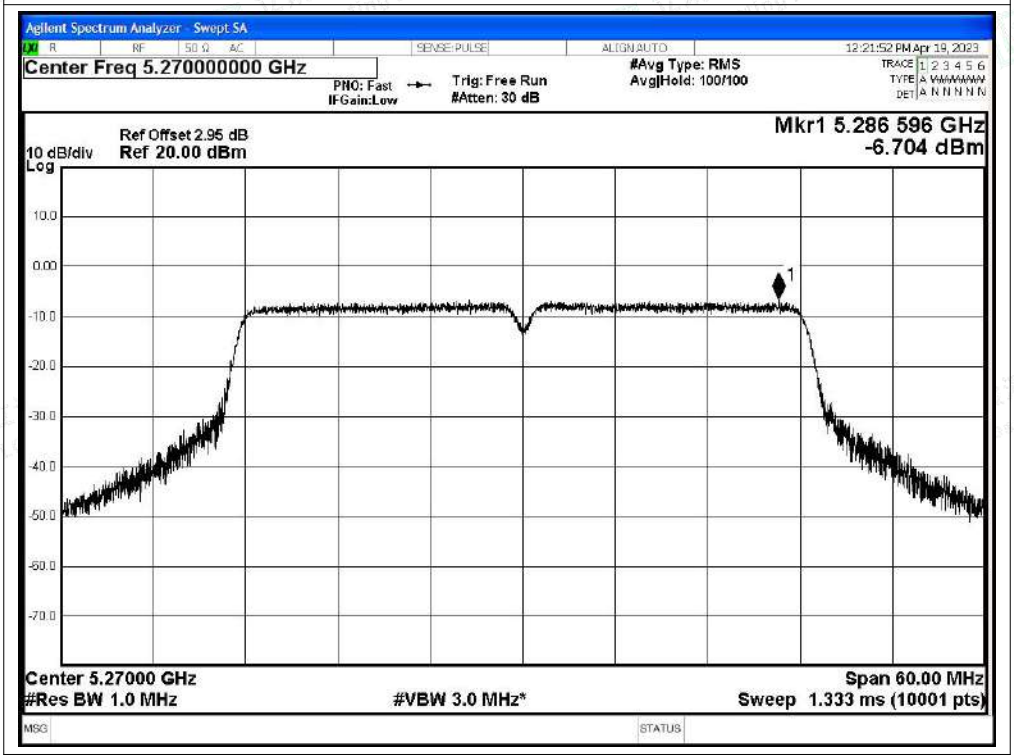
PSD NVNT n20 5300MHz Ant1



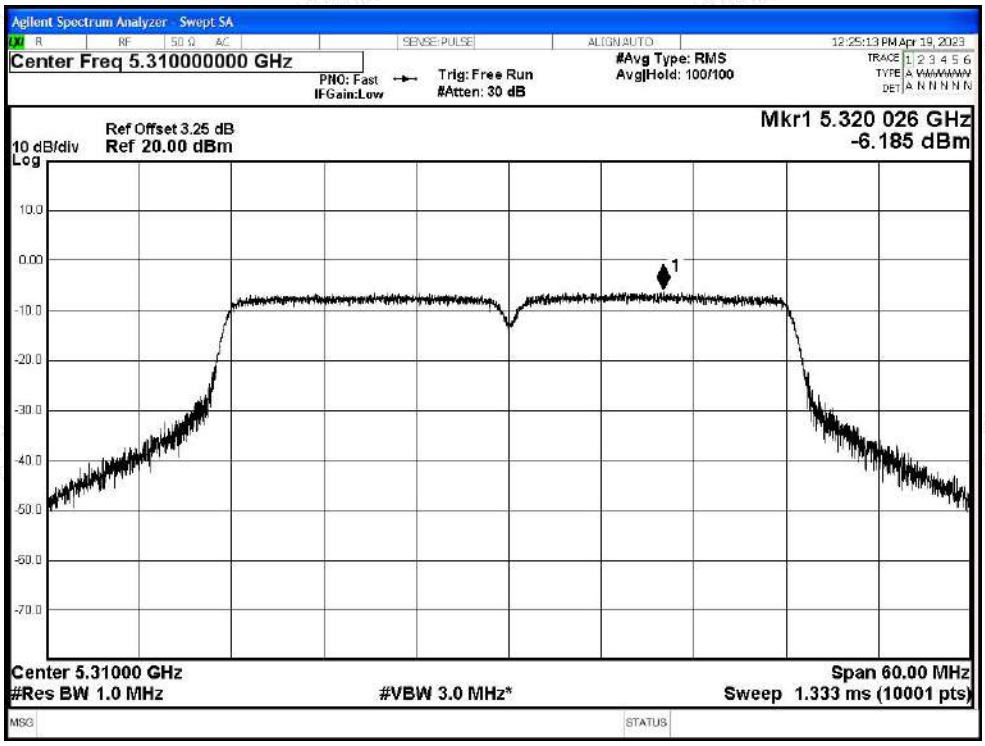
PSD NVNT n20 5320MHz Ant1



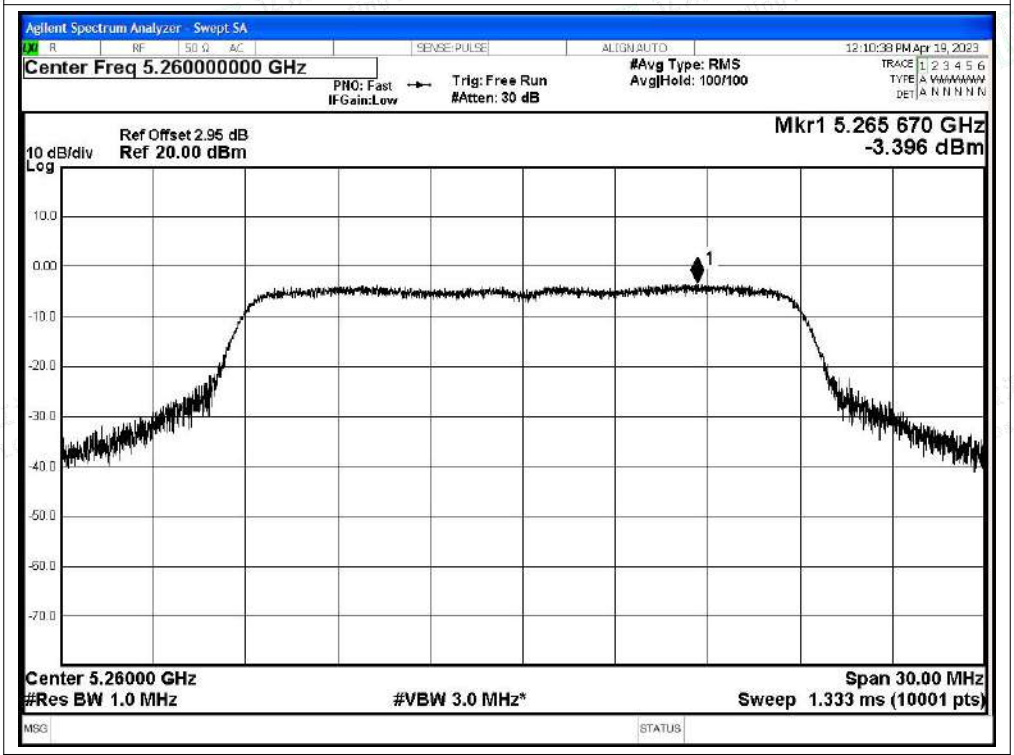
PSD NVNT n40 5270MHz Ant1



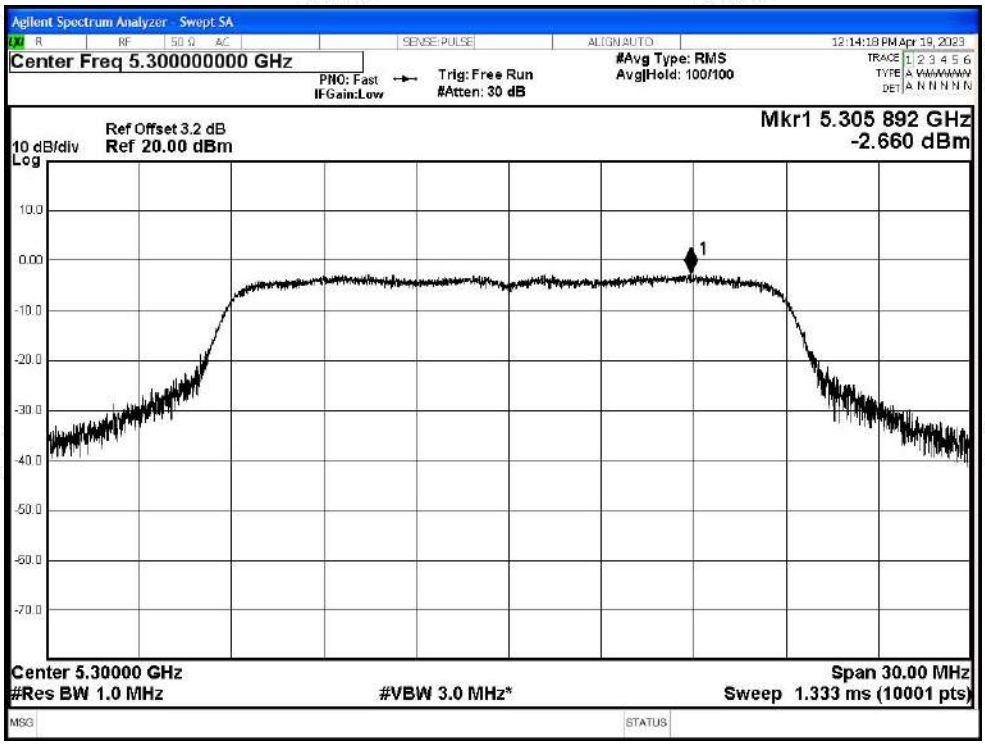
PSD NVNT n40 5310MHz Ant1



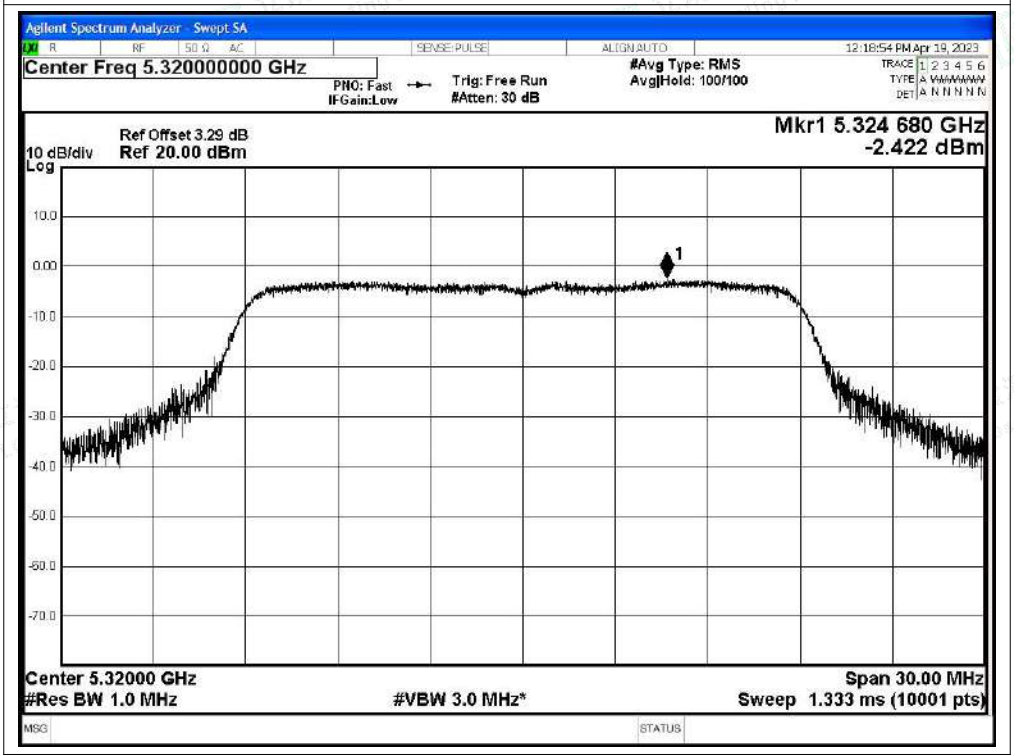
PSD NVNT ac20 5260MHz Ant1



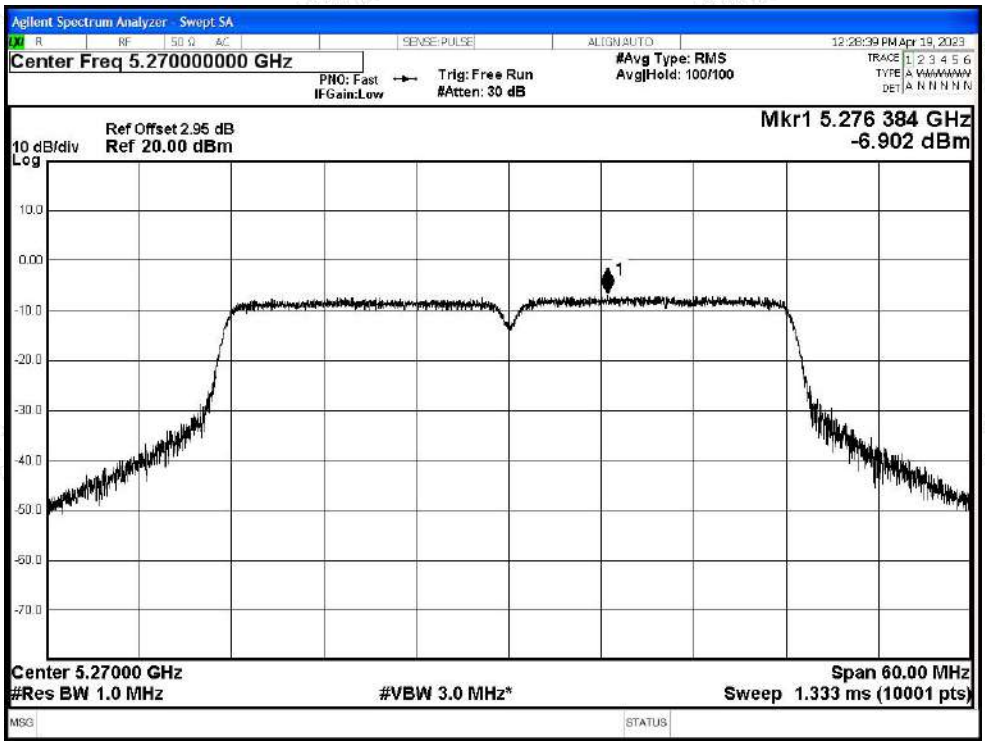
PSD NVNT ac20 5300MHz Ant1



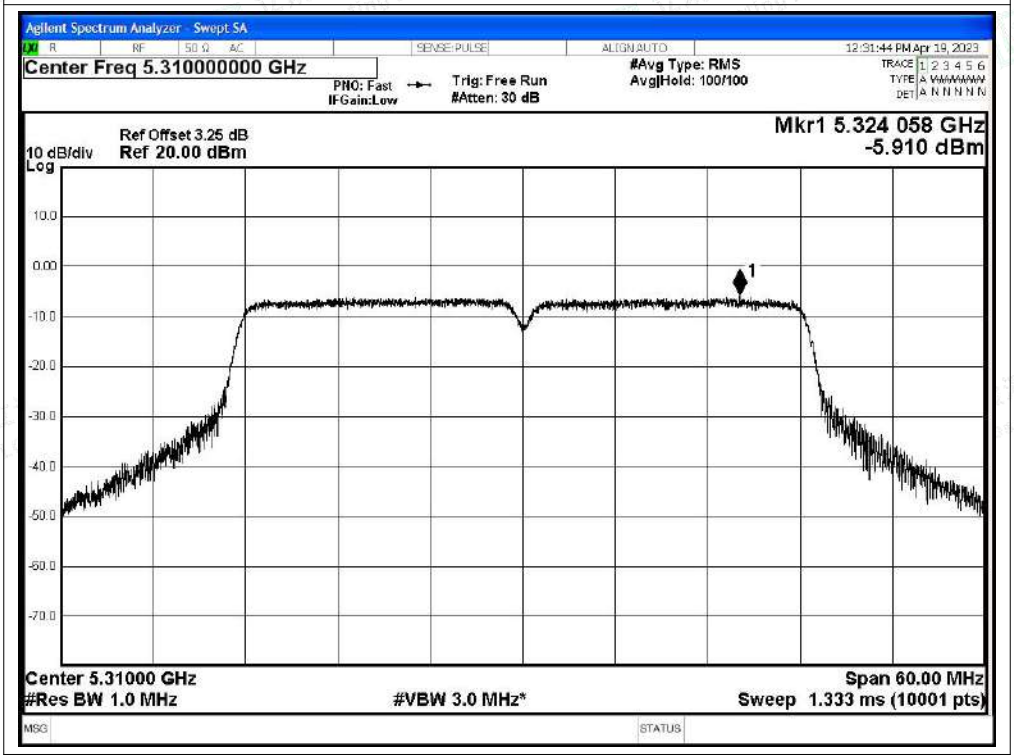
PSD NVNT ac20 5320MHz Ant1



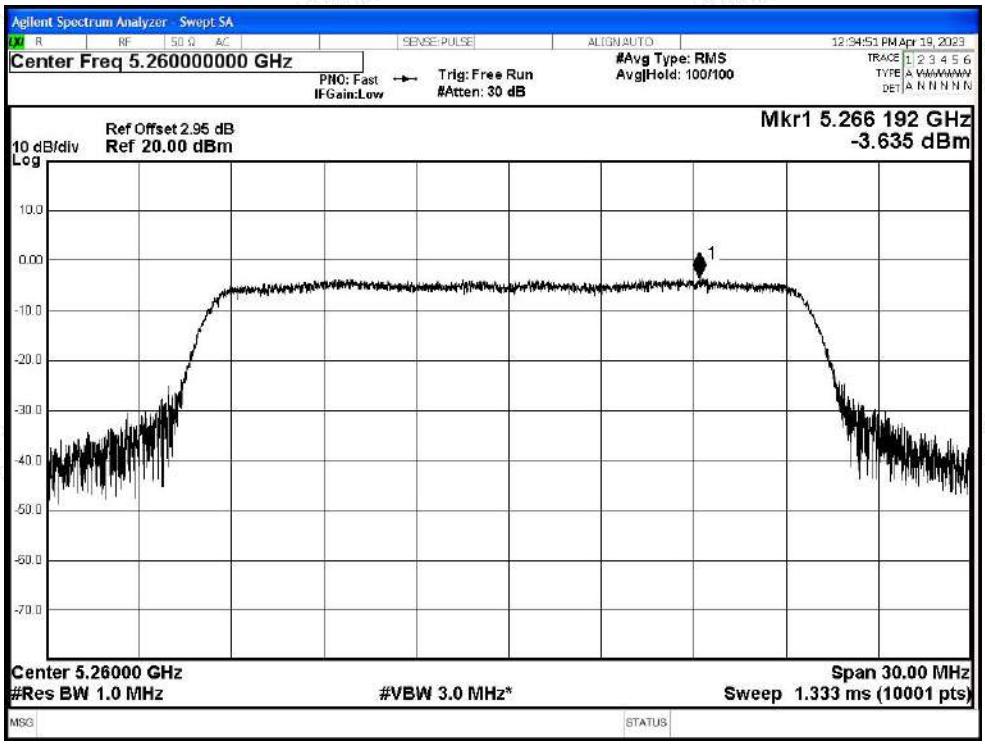
PSD NVNT ac40 5270MHz Ant1



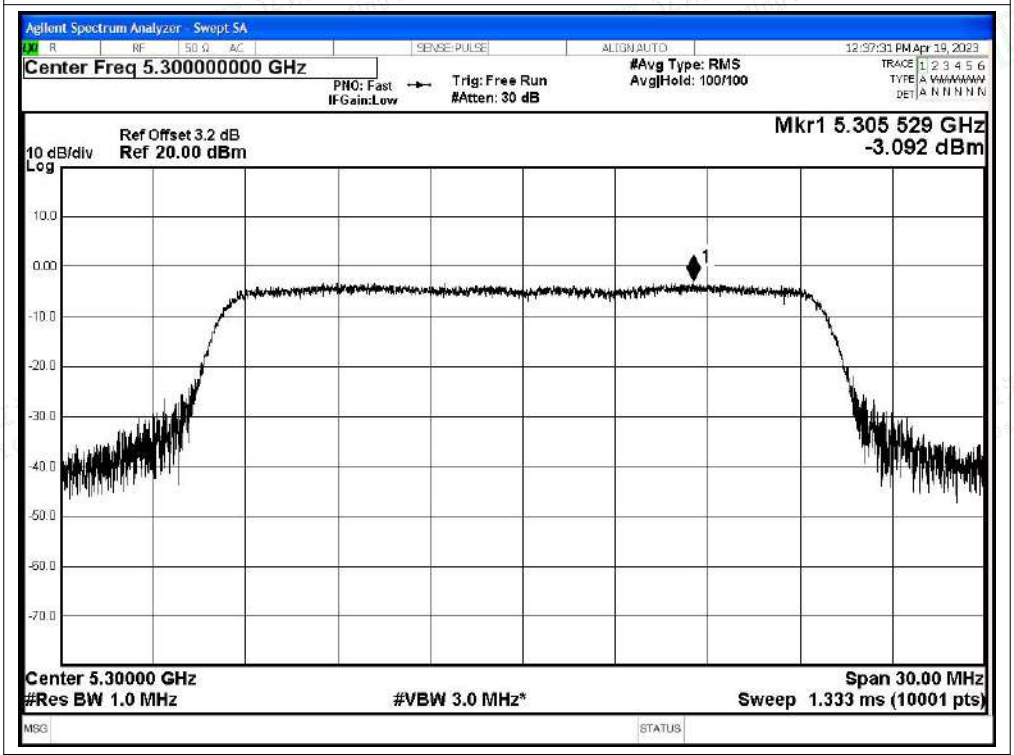
PSD NVNT ac40 5310MHz Ant1



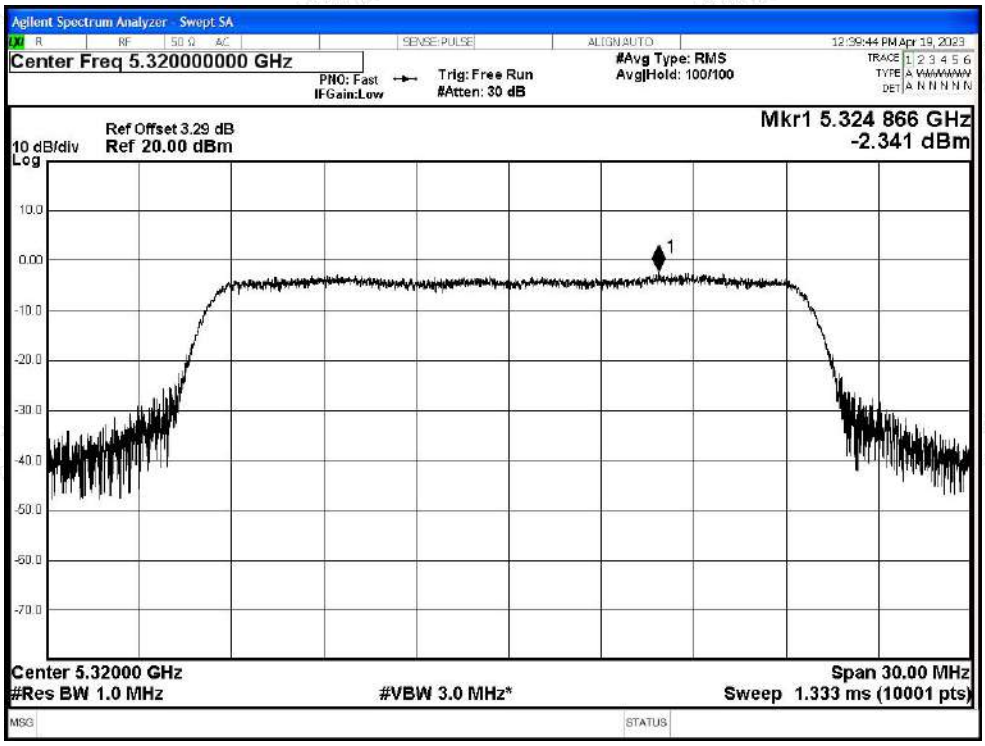
PSD NVNT ax20 5260MHz Ant1



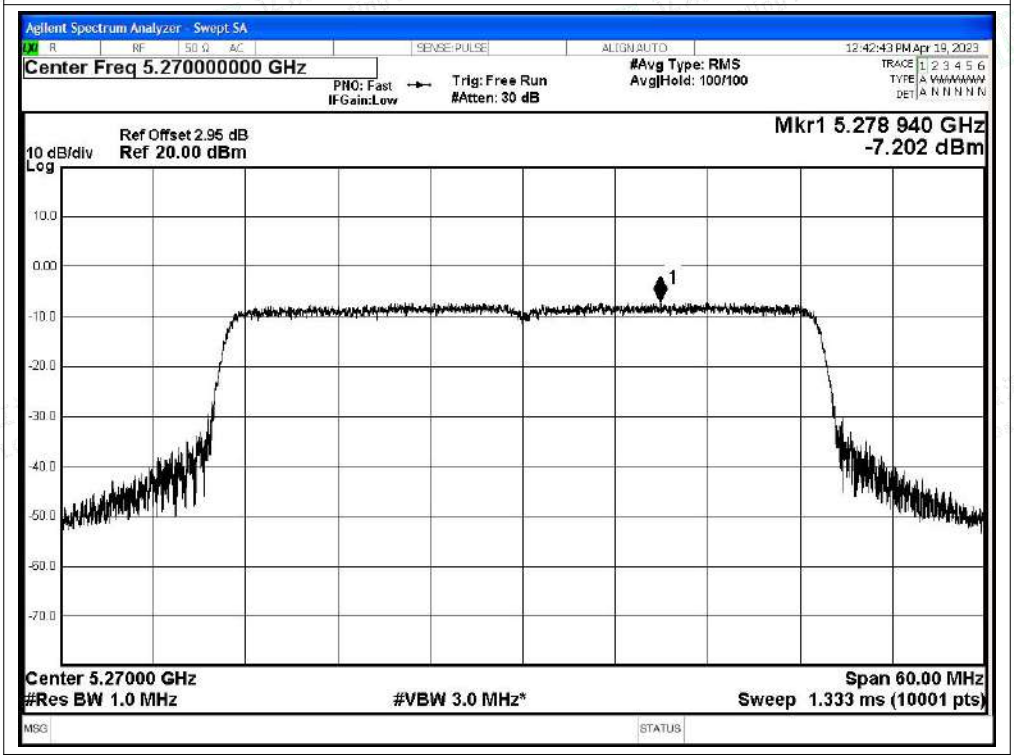
PSD NVNT ax20 5300MHz Ant1



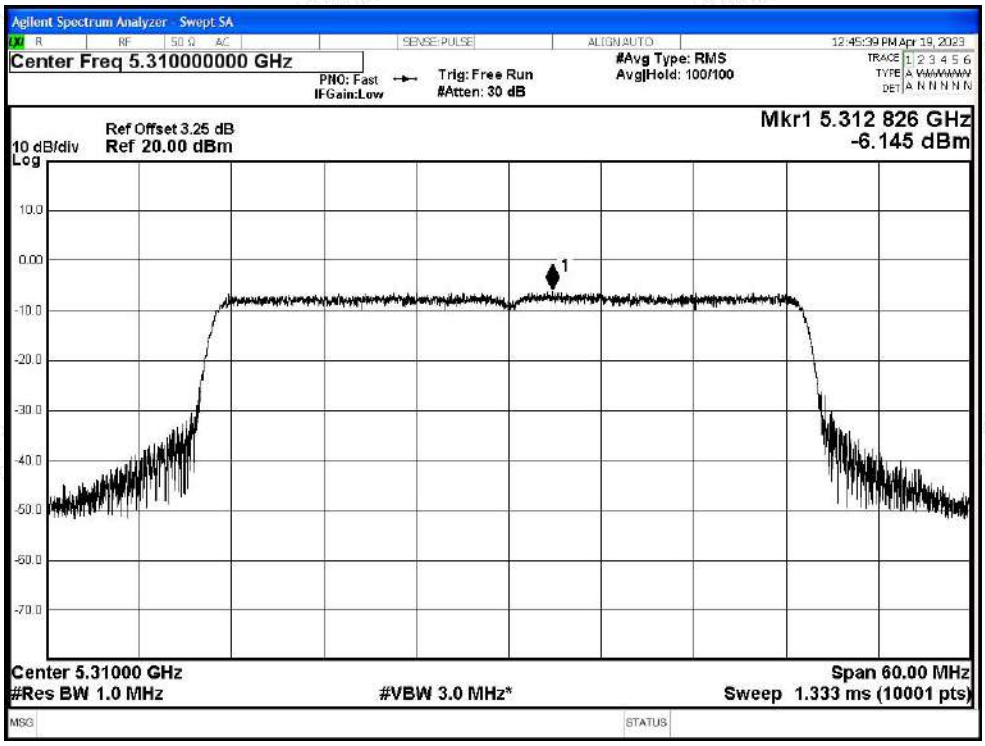
PSD NVNT ax20 5320MHz Ant1



PSD NVNT ax40 5270MHz Ant1



PSD NVNT ax40 5310MHz Ant1



E.4 Restrict Band

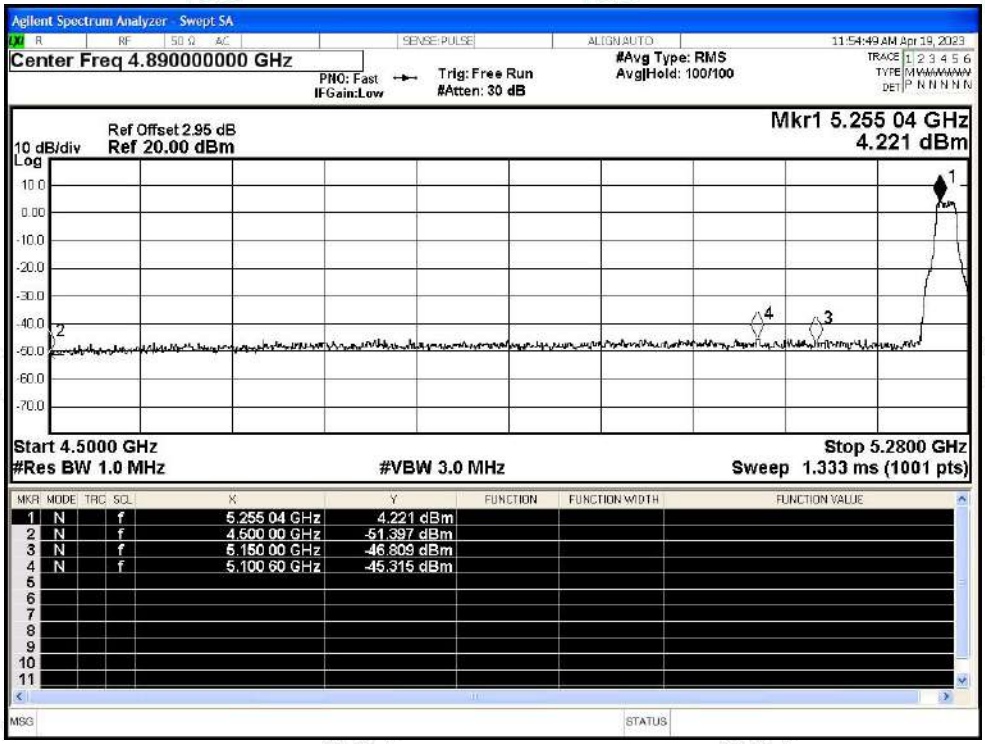
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-51.4	4.11	47.94	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-57.29	4.11	42.05	Average	54	Pass
NVNT	a	5260	Ant1	5100.6	-45.32	4.11	54.02	Peak	68.2	Pass
NVNT	a	5260	Ant1	5106.84	-54	4.11	45.34	Average	54	Pass
NVNT	a	5260	Ant1	5150	-46.81	4.11	52.53	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-54.27	4.11	45.07	Average	54	Pass
NVNT	a	5320	Ant1	5350	-48.54	4.11	50.80	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-54.26	4.11	45.08	Average	54	Pass
NVNT	a	5320	Ant1	5351.8	-44.41	4.11	54.93	Peak	68.2	Pass
NVNT	a	5320	Ant1	5439.8	-53.37	4.11	45.97	Average	54	Pass
NVNT	a	5320	Ant1	5460	-45.19	4.11	54.15	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-54.08	4.11	45.26	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.78	4.11	48.56	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-57.25	4.11	42.09	Average	54	Pass
NVNT	n20	5260	Ant1	4914.18	-44.83	4.11	54.51	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5057.7	-53.98	4.11	45.36	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.31	4.11	52.03	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-54.25	4.11	45.09	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-46.55	4.11	52.79	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-54.05	4.11	45.29	Average	54	Pass
NVNT	n20	5320	Ant1	5358	-44.71	4.11	54.63	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5440	-53.34	4.11	46.00	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-45.73	4.11	53.61	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-54.04	4.11	45.30	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-50.64	4.11	48.70	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-56.88	4.11	42.46	Average	54	Pass
NVNT	n40	5270	Ant1	4831.29	-44.74	4.11	54.60	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4743	-53.06	4.11	46.28	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-47.67	4.11	51.67	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-53.89	4.11	45.45	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-45.87	4.11	53.47	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-52.68	4.11	46.66	Average	54	Pass
NVNT	n40	5310	Ant1	5359.4	-43.37	4.11	55.97	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5424.8	-51.41	4.11	47.93	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-46.45	4.11	52.89	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-53.24	4.11	46.10	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-51.1	4.11	48.24	Peak	68.2	Pass

NVNT	ac20	5260	Ant1	4500	-57.15	4.11	42.19	Average	54	Pass
NVNT	ac20	5260	Ant1	5064.72	-44.42	4.11	54.92	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5049.12	-54.02	4.11	45.32	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-47.33	4.11	52.01	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-54.3	4.11	45.04	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-47.78	4.11	51.56	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-54.1	4.11	45.24	Average	54	Pass
NVNT	ac20	5320	Ant1	5455.2	-44.18	4.11	55.16	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5439.8	-53.57	4.11	45.77	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-47.6	4.11	51.74	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-54.03	4.11	45.31	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-49.72	4.11	49.62	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-56.91	4.11	42.43	Average	54	Pass
NVNT	ac40	5270	Ant1	4991.67	-44.69	4.11	54.65	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4743	-53.31	4.11	46.03	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-47.12	4.11	52.22	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-53.99	4.11	45.35	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-43.86	4.11	55.48	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-52.48	4.11	46.86	Average	54	Pass
NVNT	ac40	5310	Ant1	5425.2	-43.44	4.11	55.90	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5425.4	-51.42	4.11	47.92	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-47.29	4.11	52.05	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-53.28	4.11	46.06	Average	54	Pass
NVNT	ax20	5260	Ant1	4500	-50.12	4.11	49.22	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	4500	-57.06	4.11	42.28	Average	54	Pass
NVNT	ax20	5260	Ant1	5113.86	-44.66	4.11	54.68	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	5046.78	-53.91	4.11	45.43	Average	54	Pass
NVNT	ax20	5260	Ant1	5150	-48.2	4.11	51.14	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	5150	-54.39	4.11	44.95	Average	54	Pass
NVNT	ax20	5320	Ant1	5350	-47.74	4.11	51.60	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5350	-53.91	4.11	45.43	Average	54	Pass
NVNT	ax20	5320	Ant1	5459.8	-42.87	4.11	56.47	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5440	-53.52	4.11	45.82	Average	54	Pass
NVNT	ax20	5320	Ant1	5460	-45.4	4.11	53.94	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5460	-53.95	4.11	45.39	Average	54	Pass
NVNT	ax40	5270	Ant1	4500	-49.49	4.11	49.85	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	4500	-56.84	4.11	42.50	Average	54	Pass
NVNT	ax40	5270	Ant1	5018.4	-44.75	4.11	54.59	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	4743	-52.99	4.11	46.35	Average	54	Pass
NVNT	ax40	5270	Ant1	5150	-46.79	4.11	52.55	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	5150	-53.76	4.11	45.58	Average	54	Pass

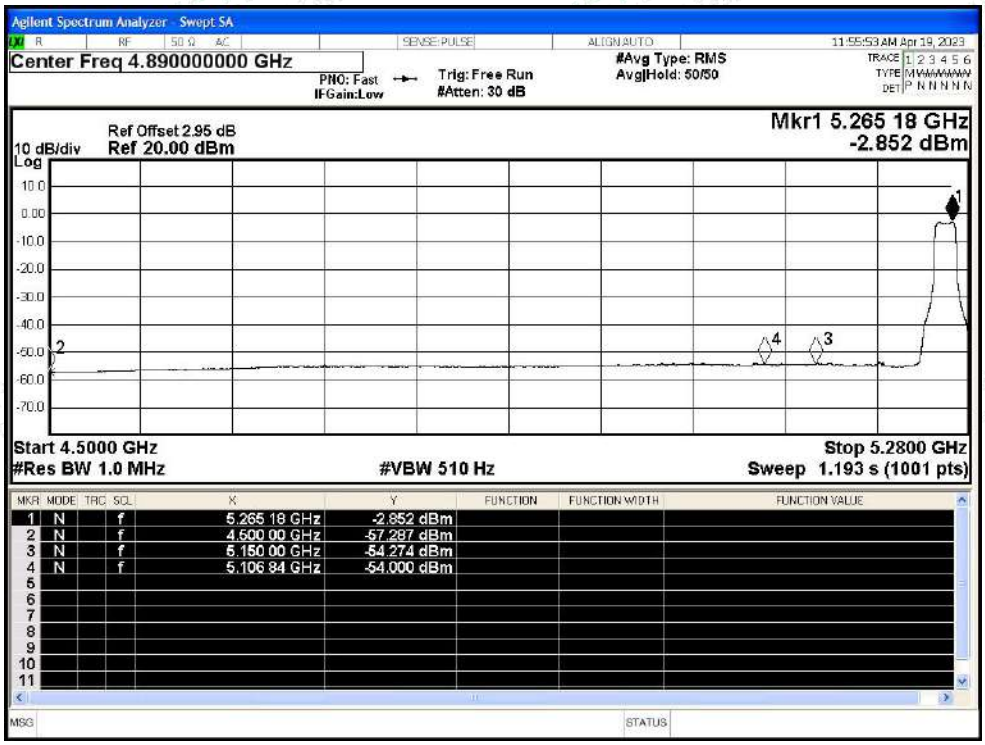
NVNT	ax40	5310	Ant1	5350	-45.37	4.11	53.97	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5350	-52.21	4.11	47.13	Average	54	Pass
NVNT	ax40	5310	Ant1	5350.6	-42.93	4.11	56.41	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5424.6	-50.93	4.11	48.41	Average	54	Pass
NVNT	ax40	5310	Ant1	5460	-45.41	4.11	53.93	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5460	-53.32	4.11	46.02	Average	54	Pass

Test Graphs

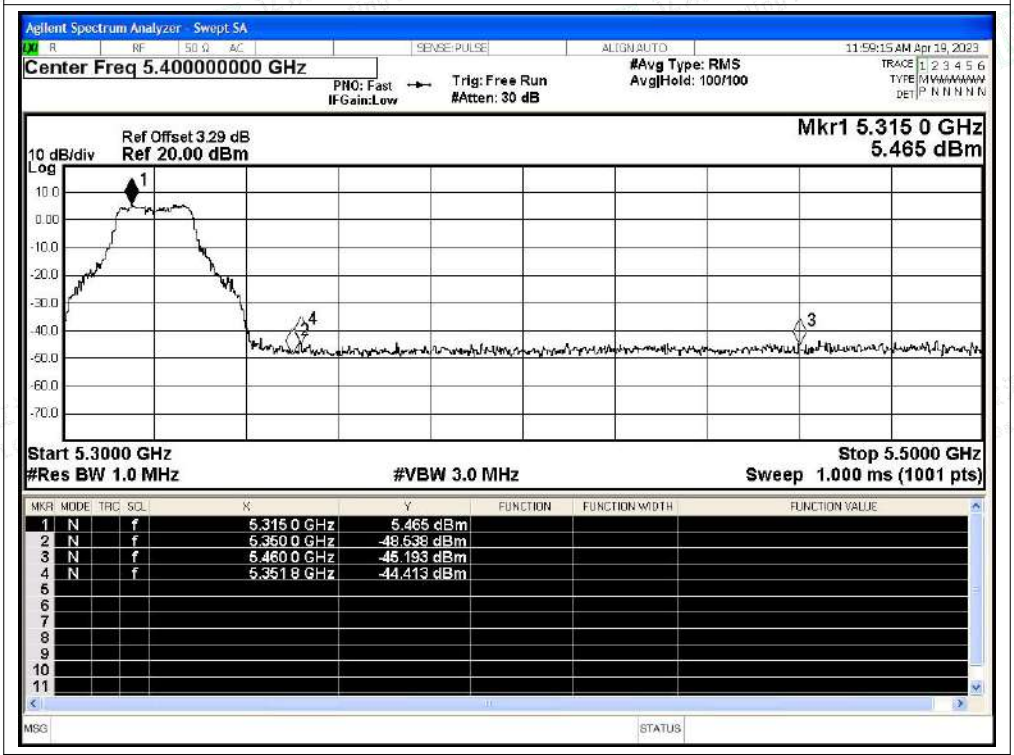
Restrict Band NVNT a 5260MHz Ant1 Peak



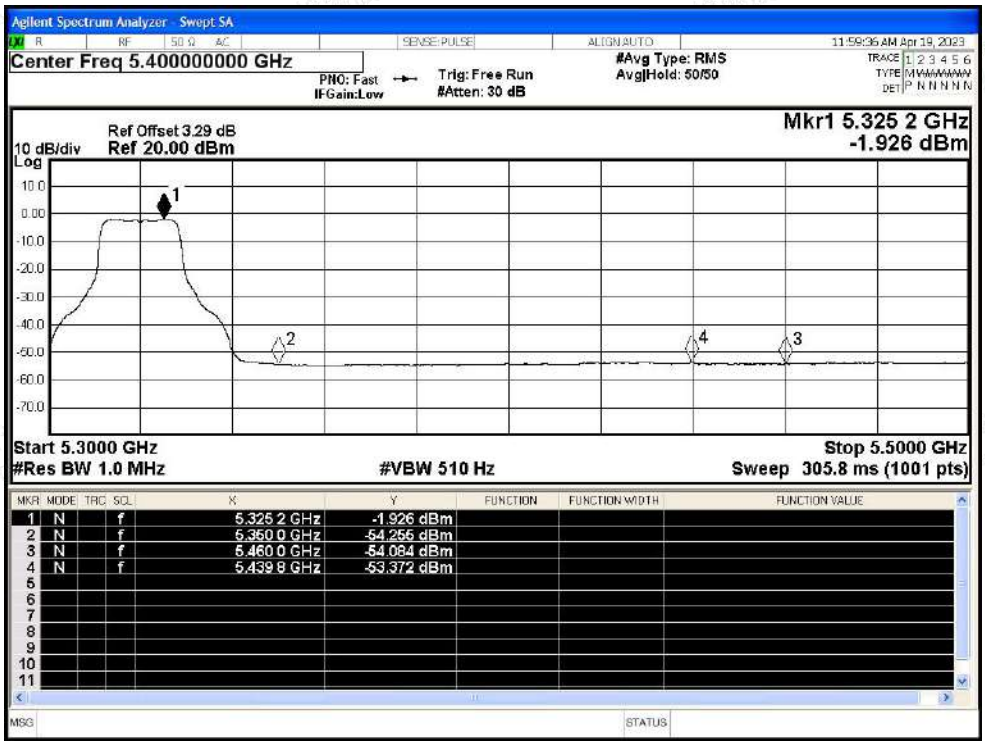
Restrict Band NVNT a 5260MHz Ant1 Average



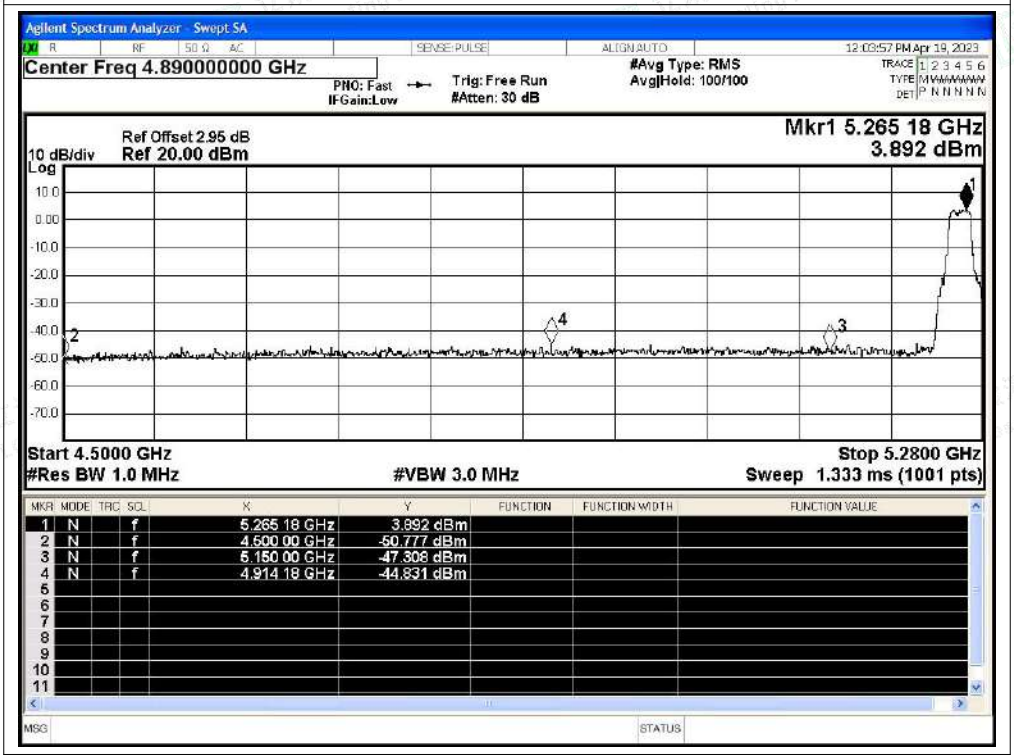
Restrict Band NVNT a 5320MHz Ant1 Peak



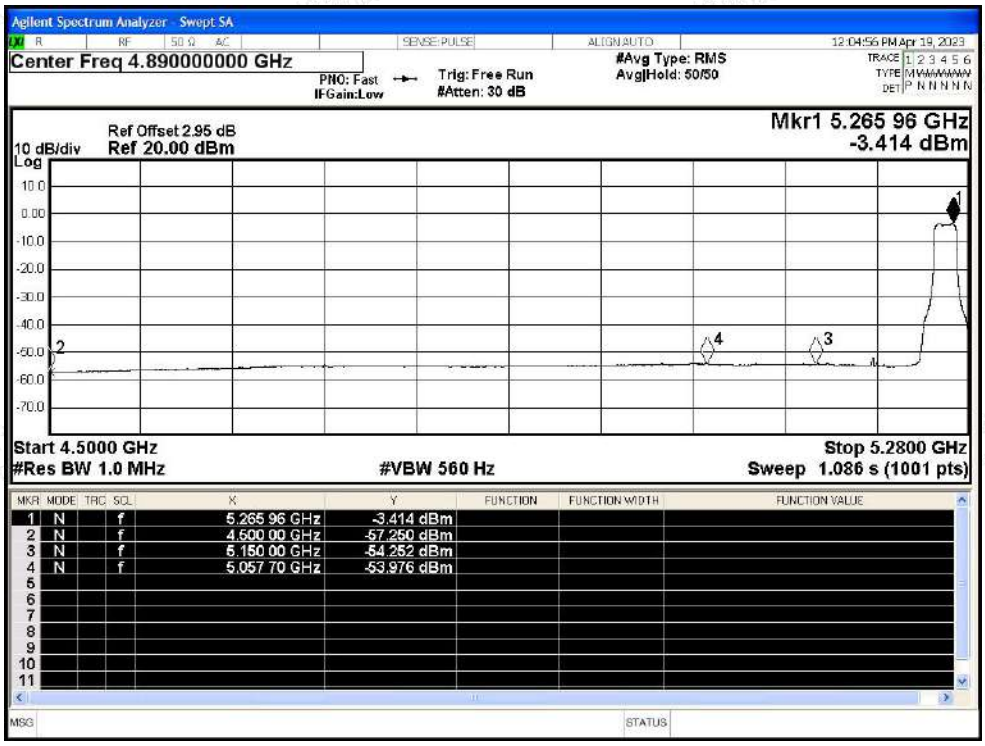
Restrict Band NVNT a 5320MHz Ant1 Average



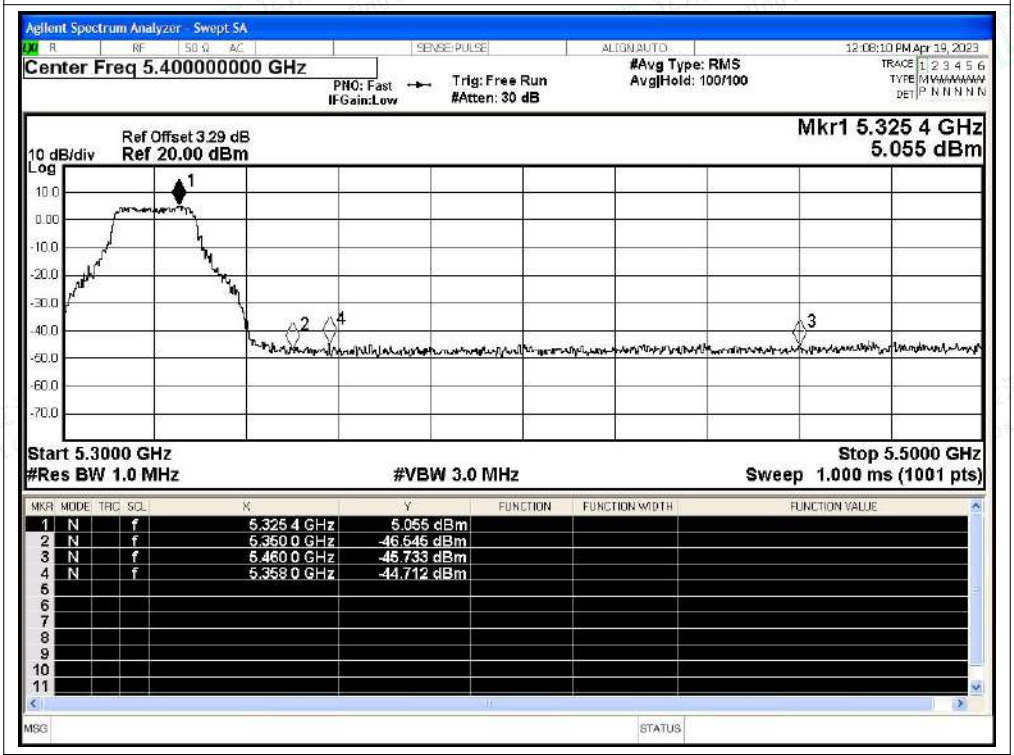
Restrict Band NVNT n20 5260MHz Ant1 Peak



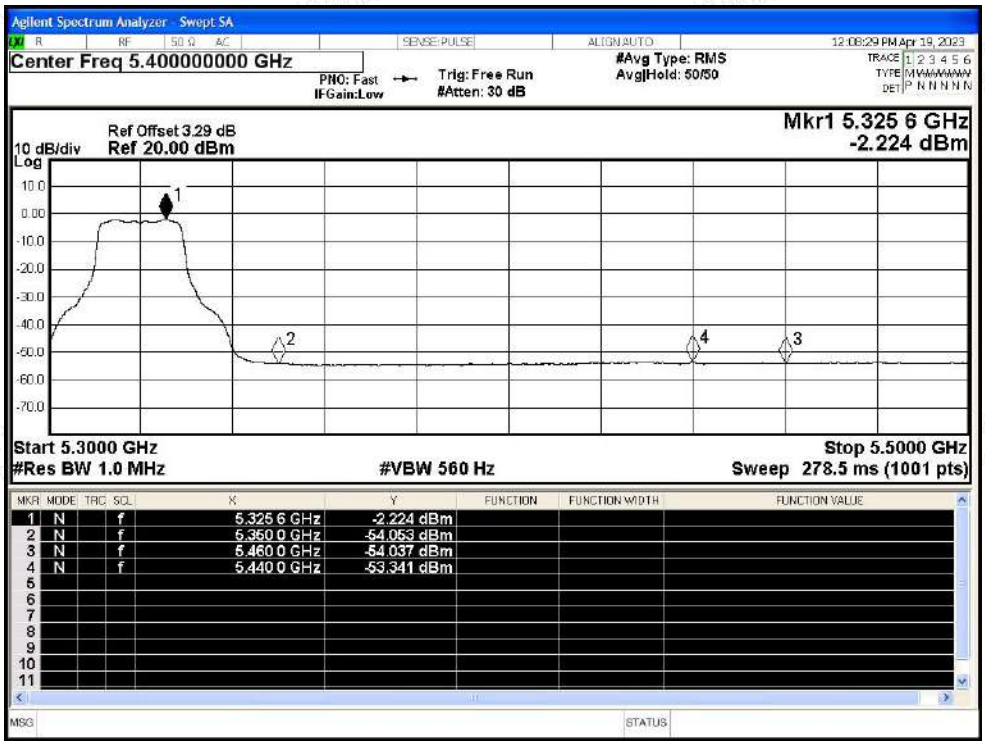
Restrict Band NVNT n20 5260MHz Ant1 Average



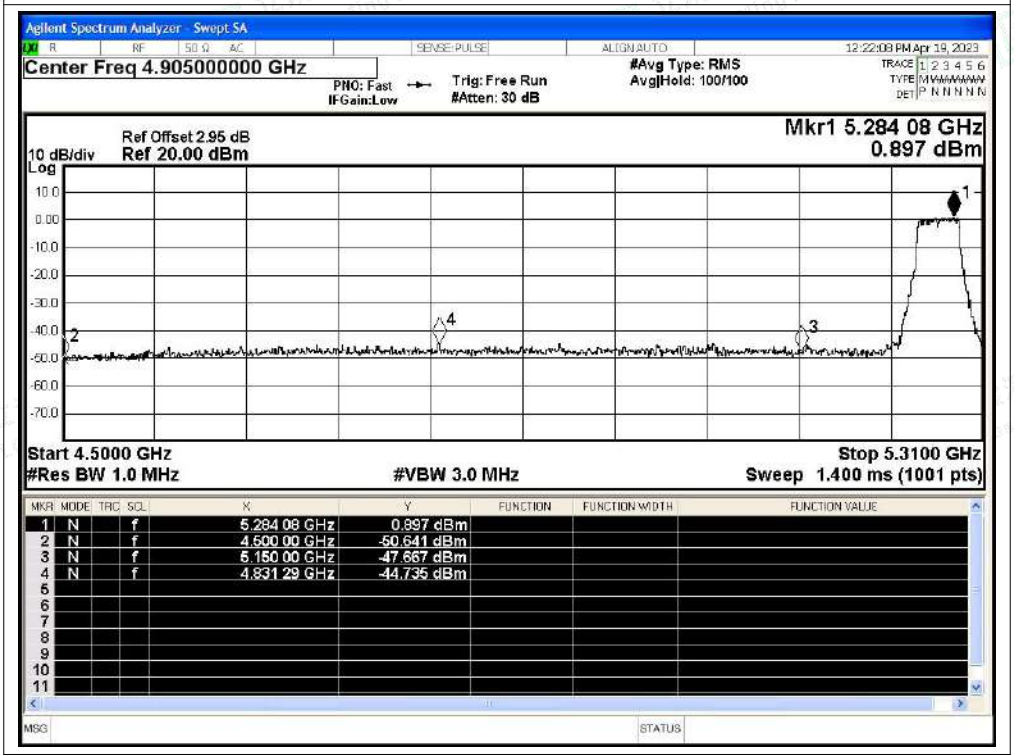
Restrict Band NVNT n20 5320MHz Ant1 Peak



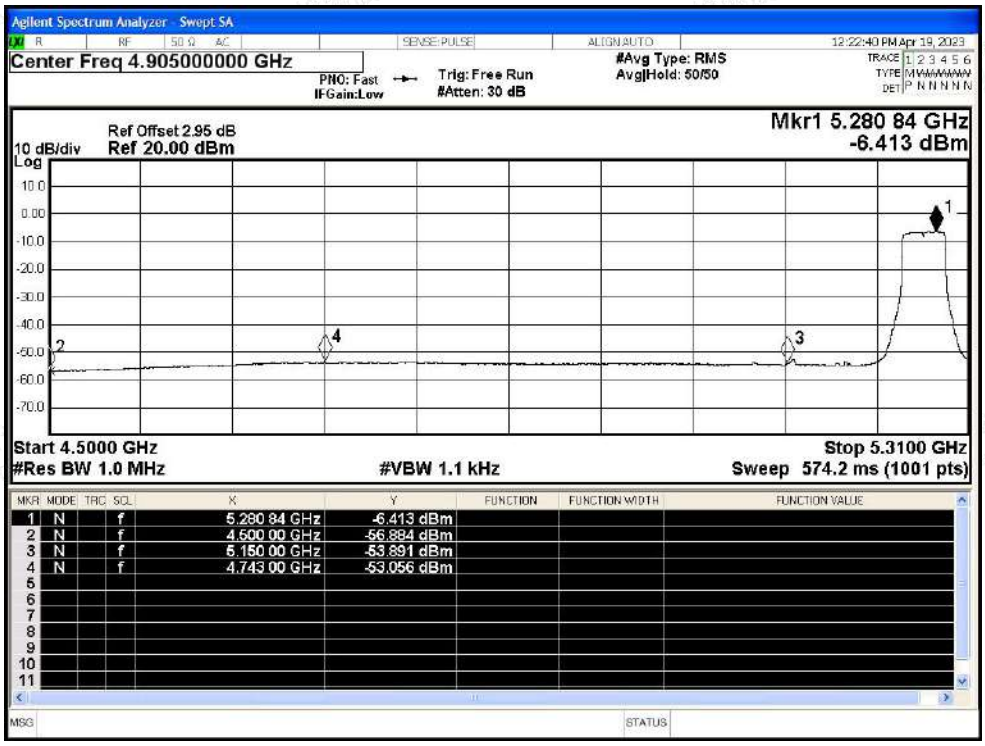
Restrict Band NVNT n20 5320MHz Ant1 Average



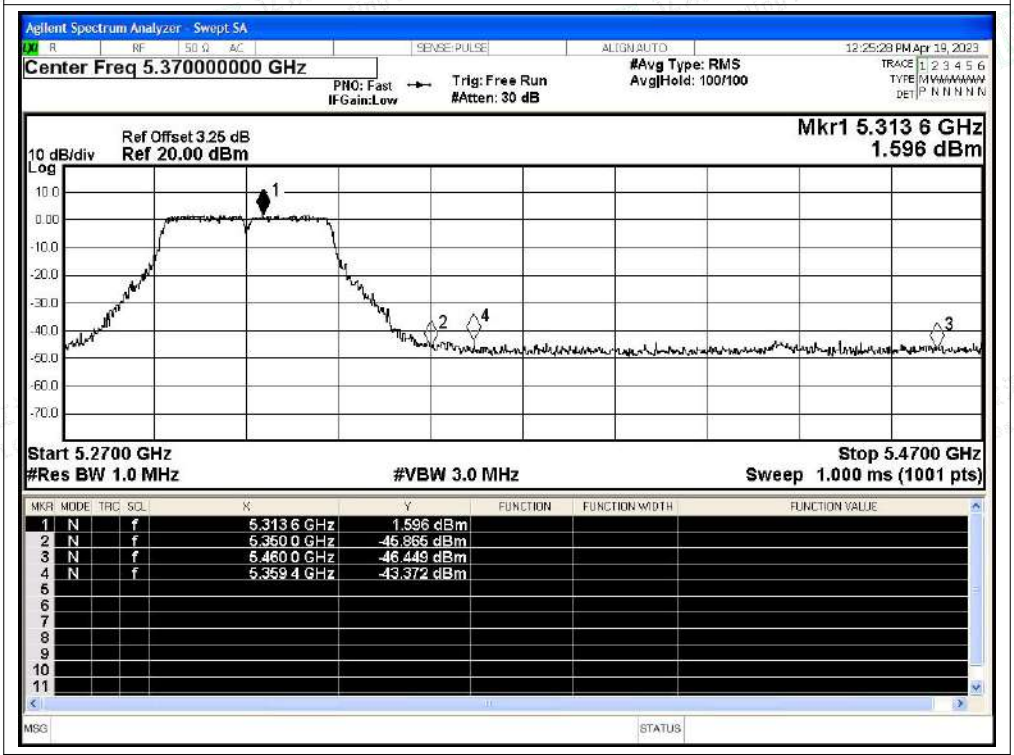
Restrict Band NVNT n40 5270MHz Ant1 Peak



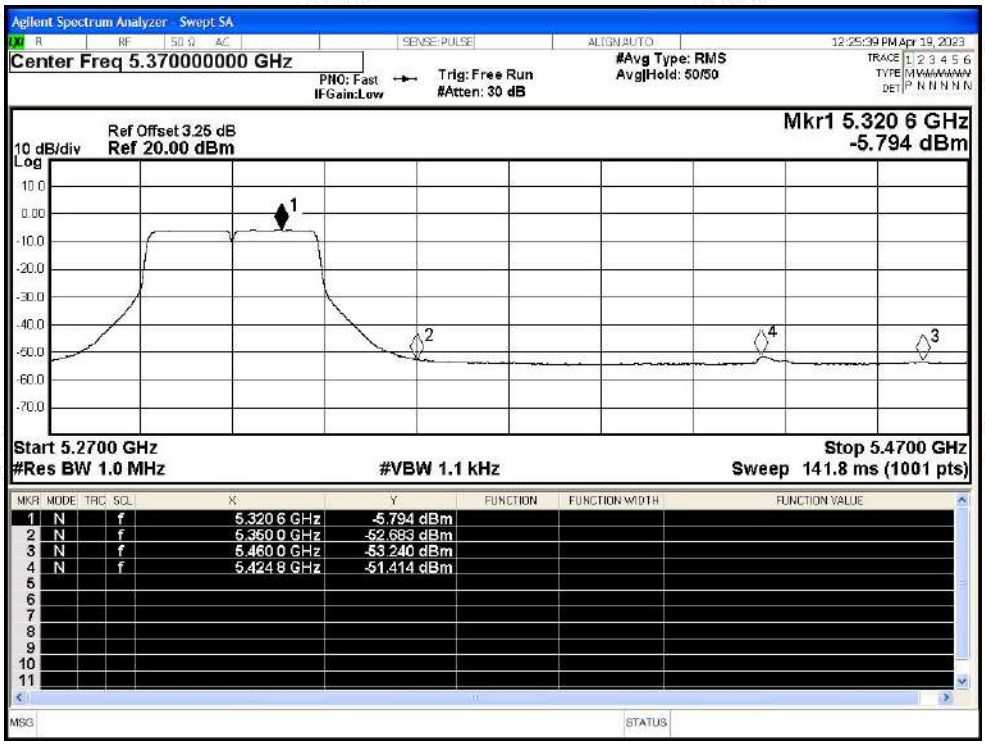
Restrict Band NVNT n40 5270MHz Ant1 Average



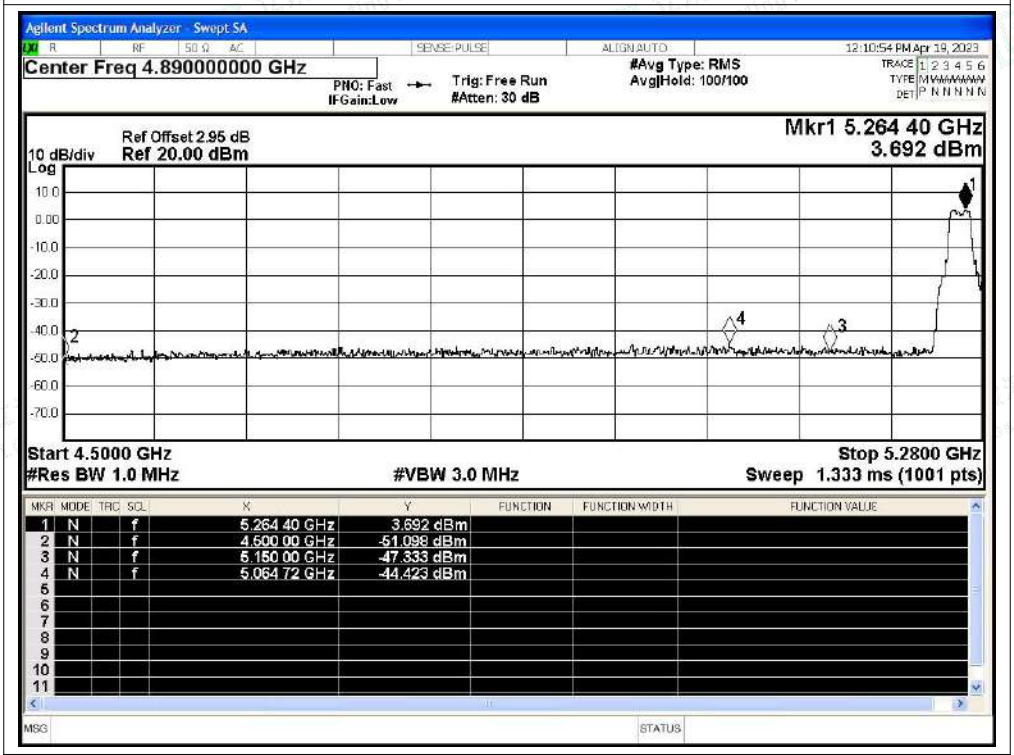
Restrict Band NVNT n40 5310MHz Ant1 Peak



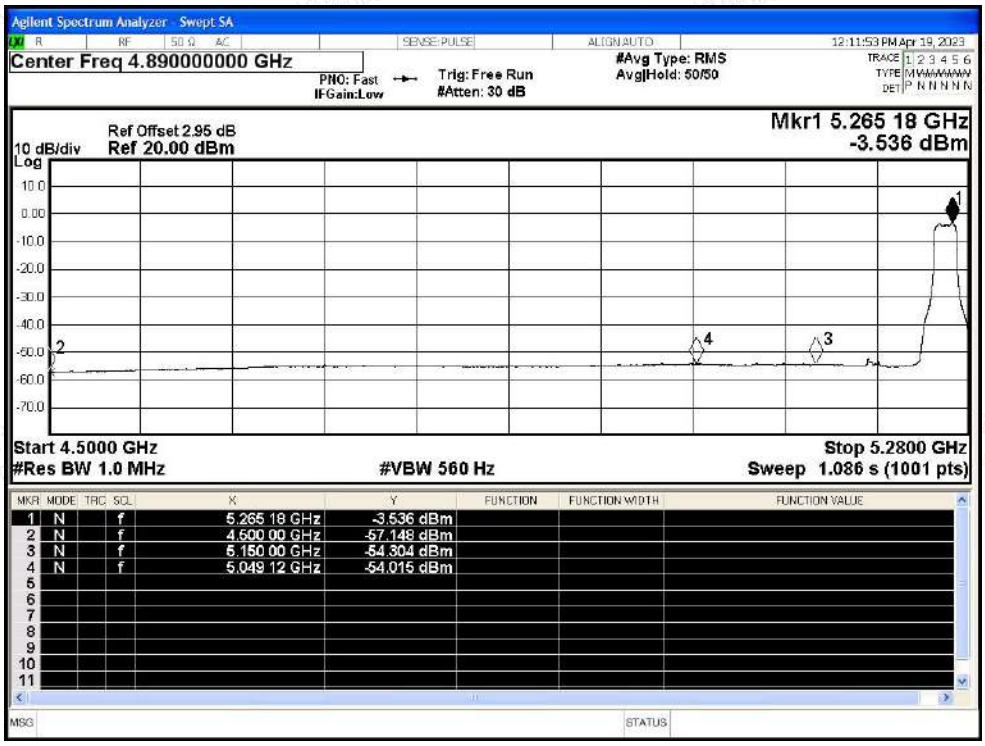
Restrict Band NVNT n40 5310MHz Ant1 Average



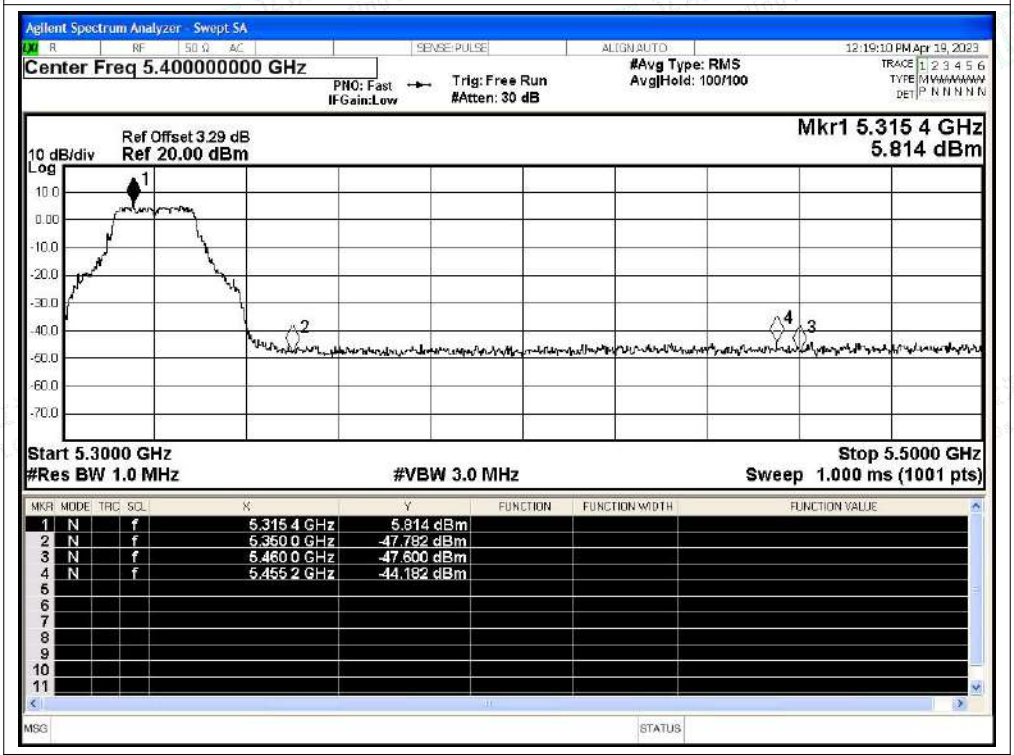
Restrict Band NVNT ac20 5260MHz Ant1 Peak



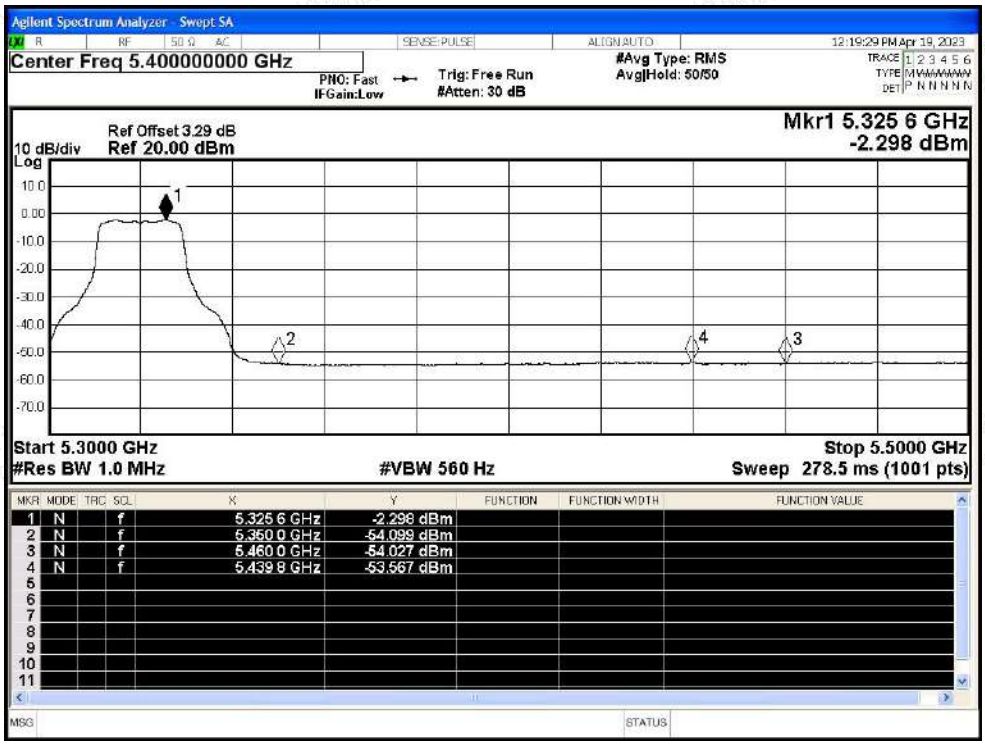
Restrict Band NVNT ac20 5260MHz Ant1 Average



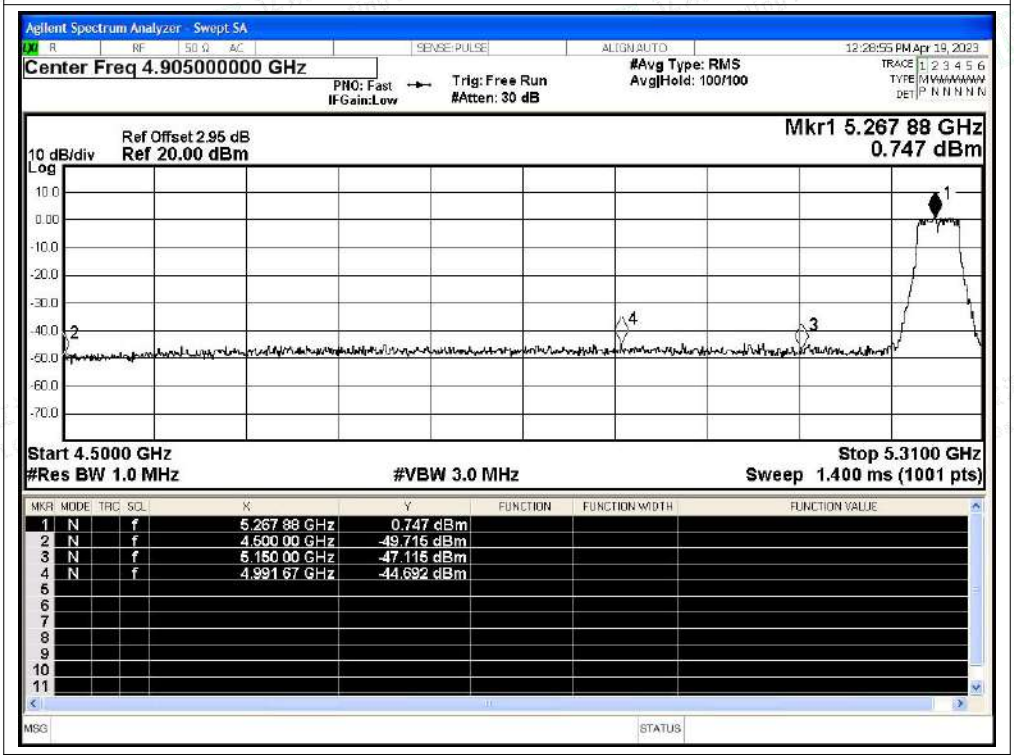
Restrict Band NVNT ac20 5320MHz Ant1 Peak



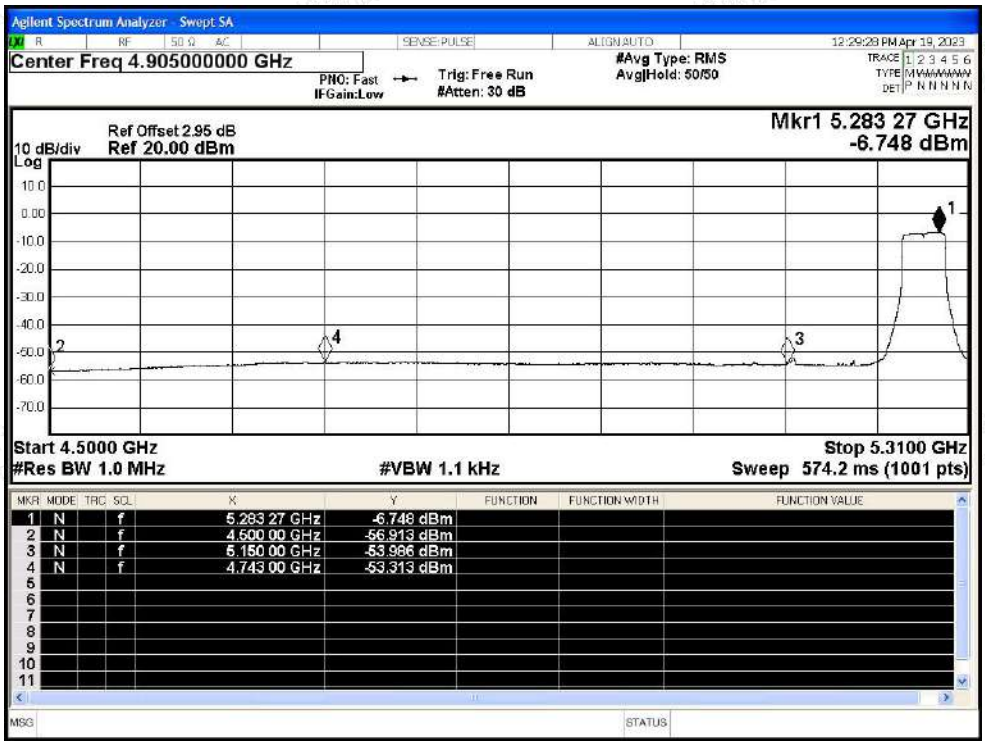
Restrict Band NVNT ac20 5320MHz Ant1 Average



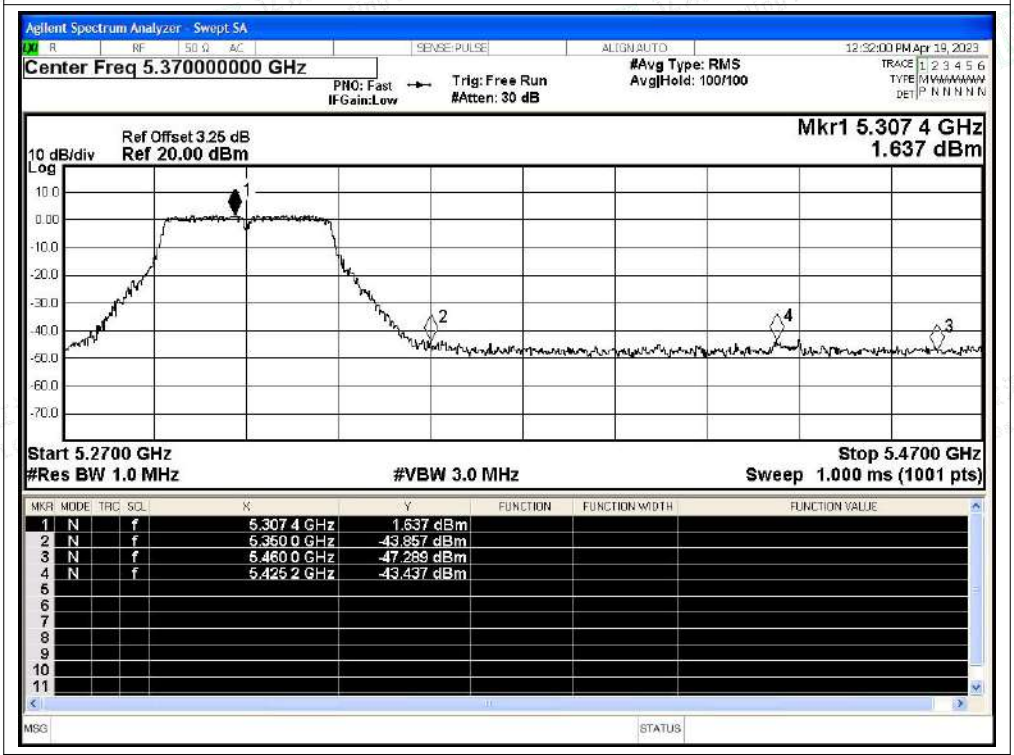
Restrict Band NVNT ac40 5270MHz Ant1 Peak



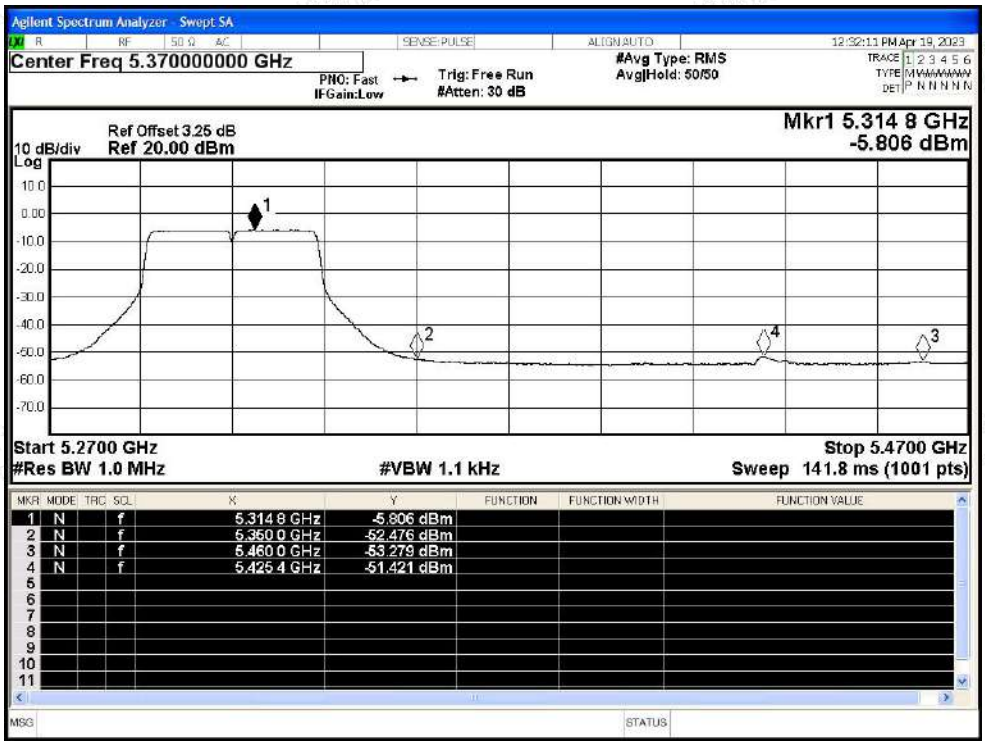
Restrict Band NVNT ac40 5270MHz Ant1 Average



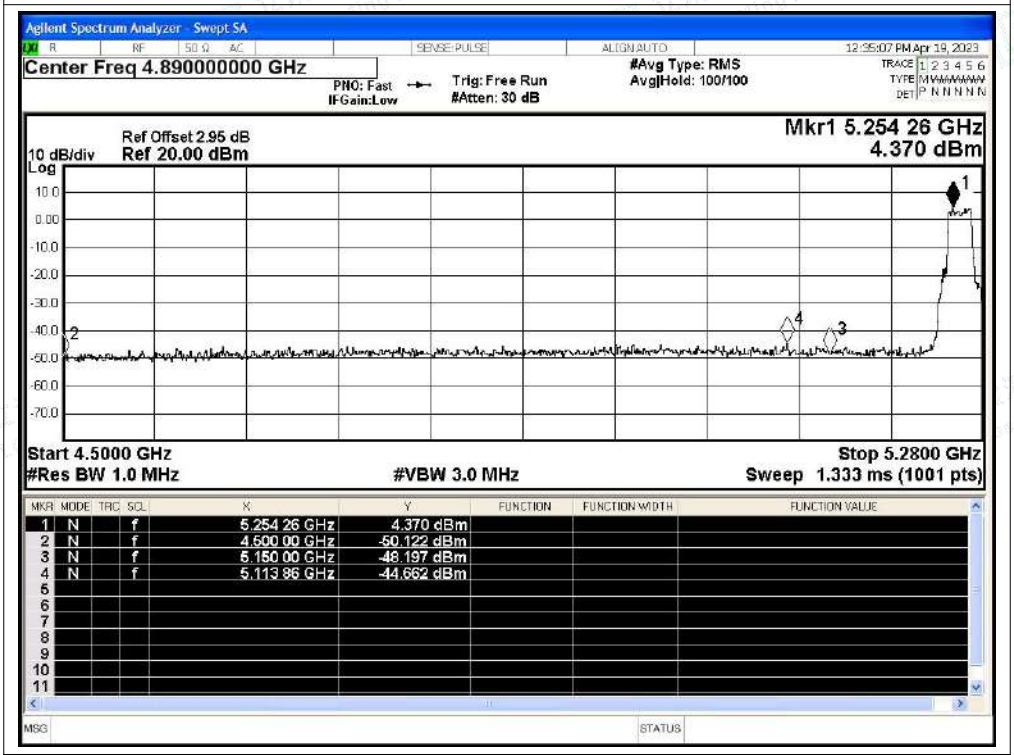
Restrict Band NVNT ac40 5310MHz Ant1 Peak



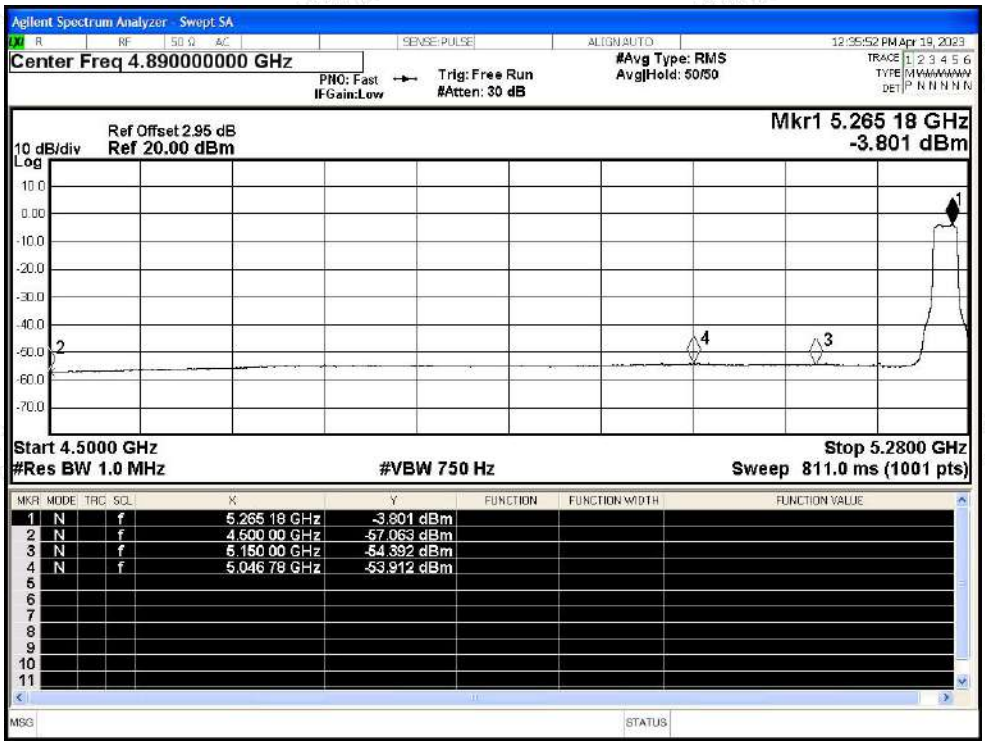
Restrict Band NVNT ac40 5310MHz Ant1 Average



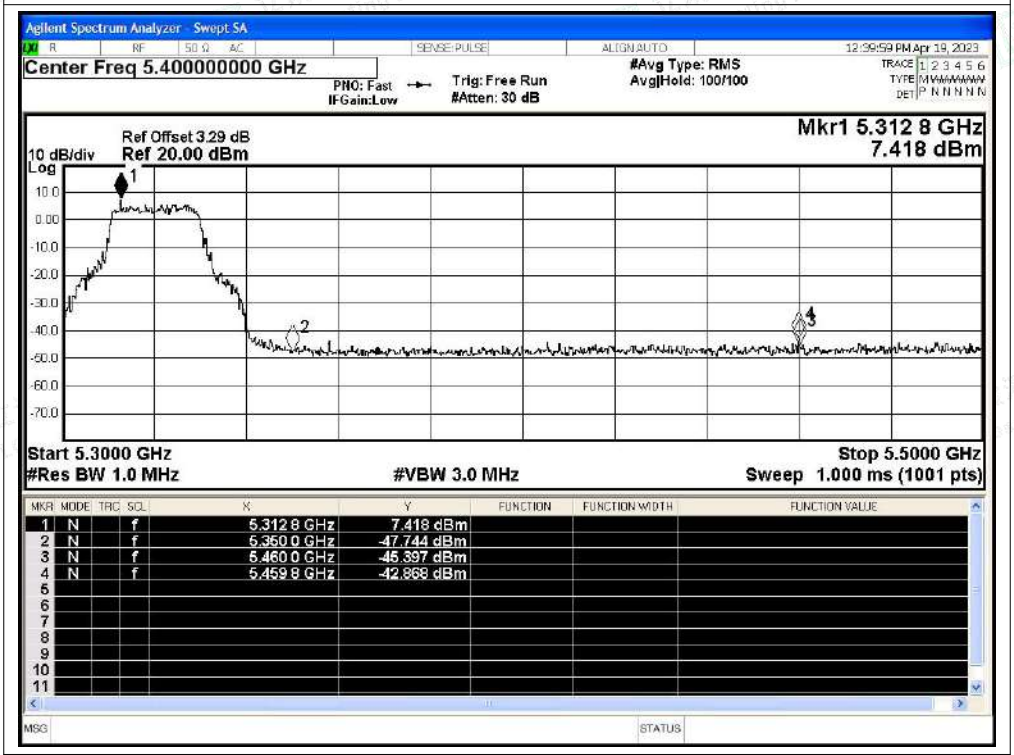
Restrict Band NVNT ax20 5260MHz Ant1 Peak



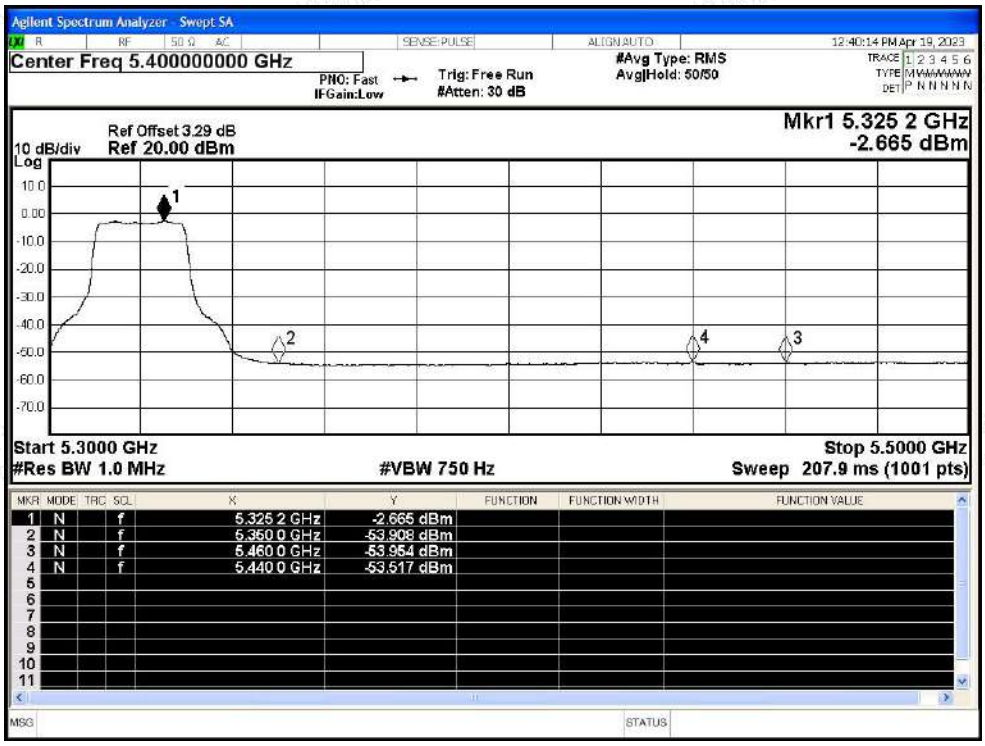
Restrict Band NVNT ax20 5260MHz Ant1 Average



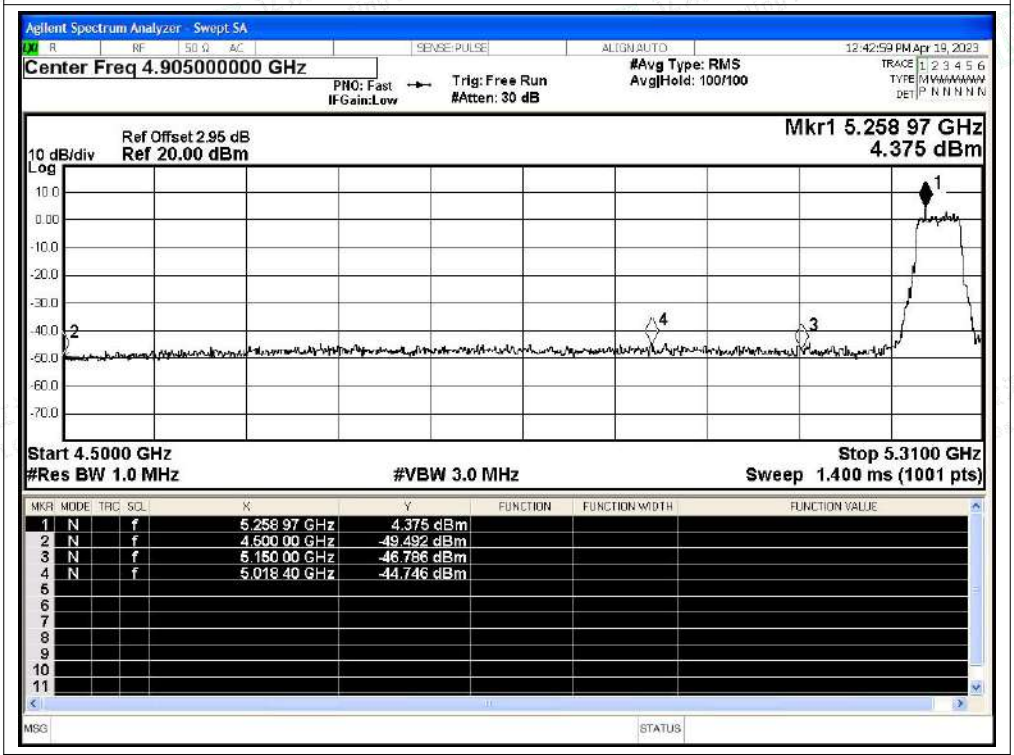
Restrict Band NVNT ax20 5320MHz Ant1 Peak



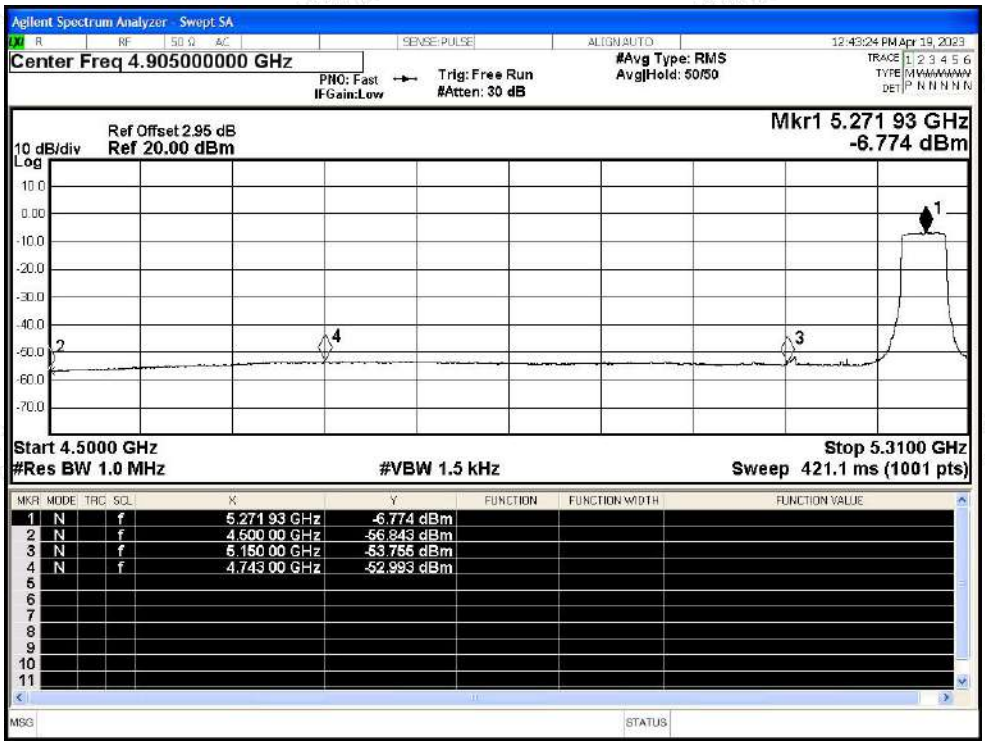
Restrict Band NVNT ax20 5320MHz Ant1 Average



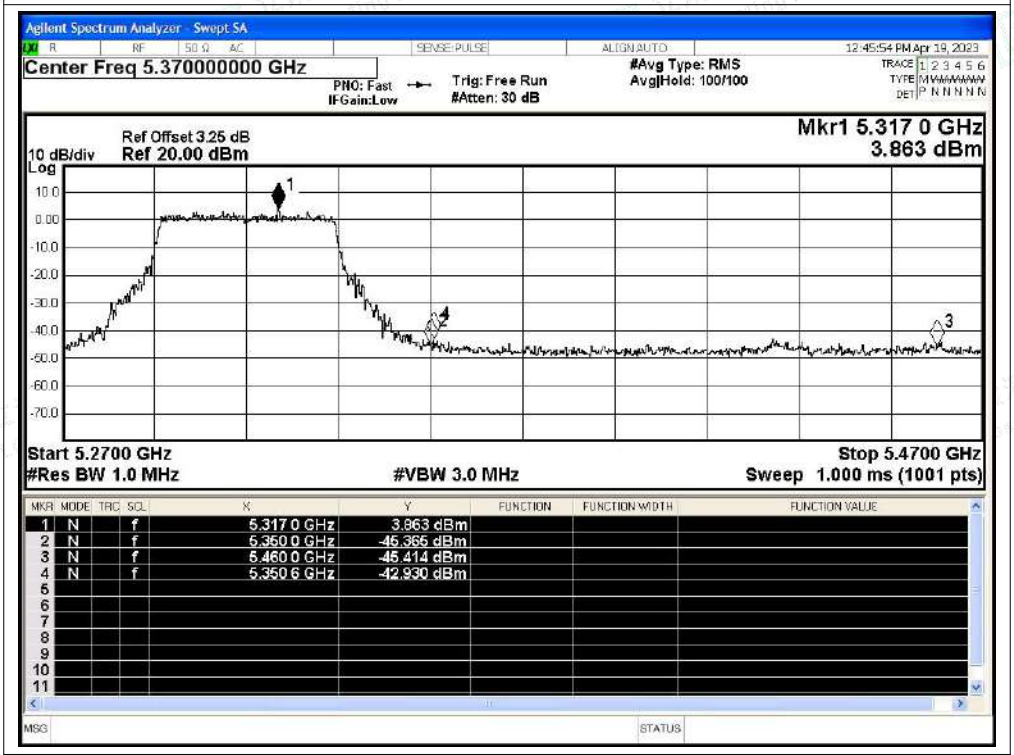
Restrict Band NVNT ax40 5270MHz Ant1 Peak



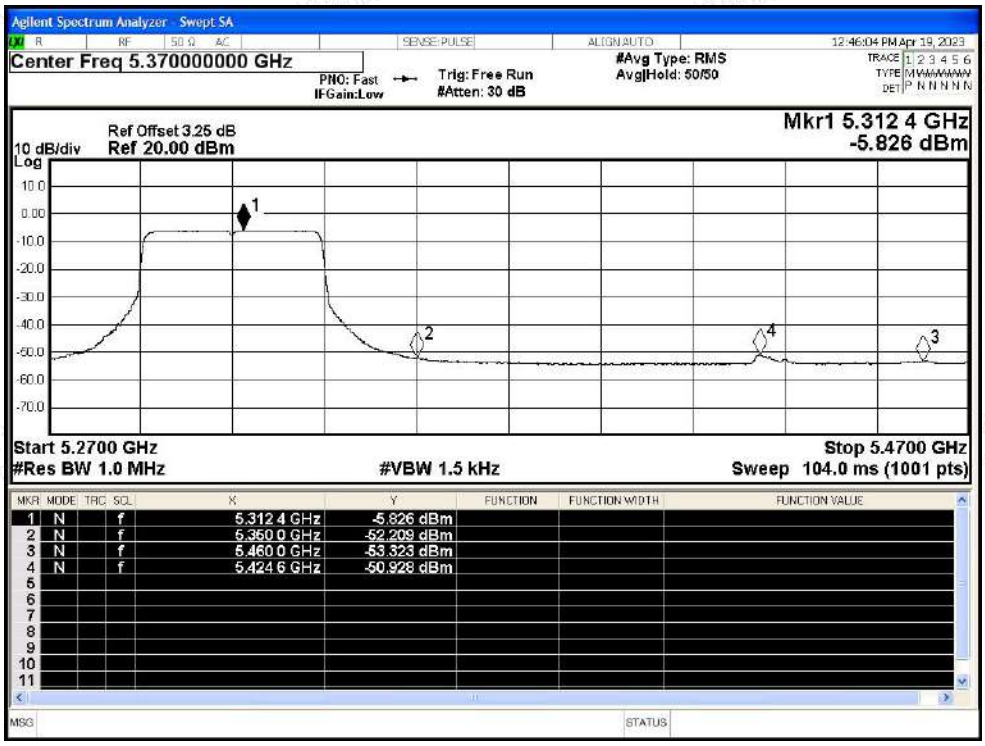
Restrict Band NVNT ax40 5270MHz Ant1 Average



Restrict Band NVNT ax40 5310MHz Ant1 Peak



Restrict Band NVNT ax40 5310MHz Ant1 Average

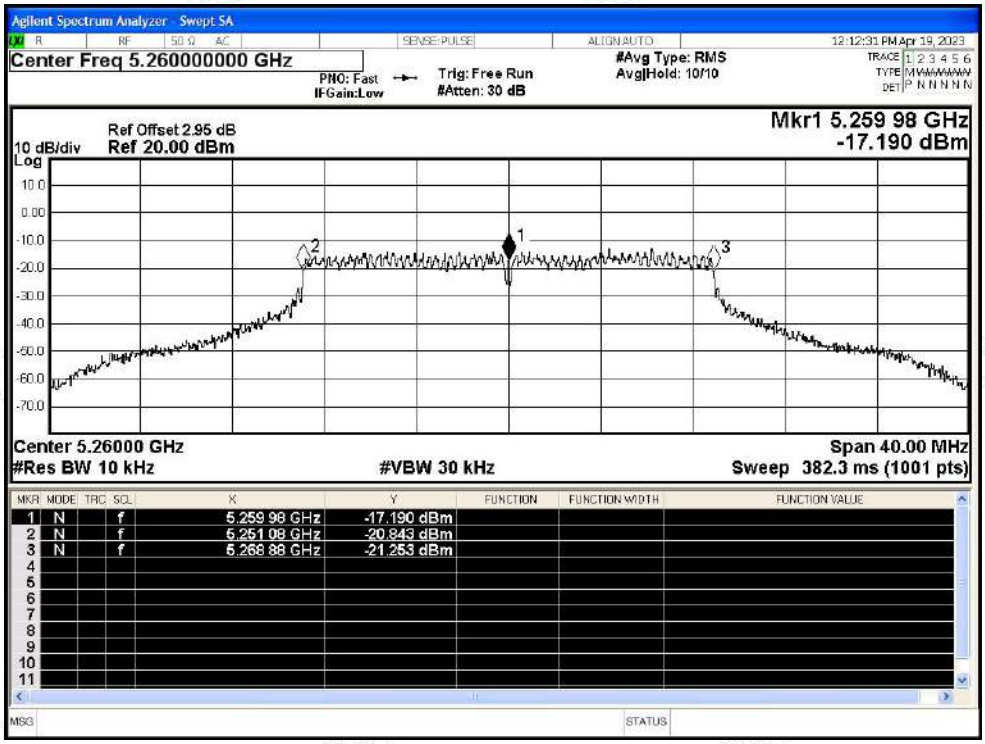


E.5 Frequency Stability

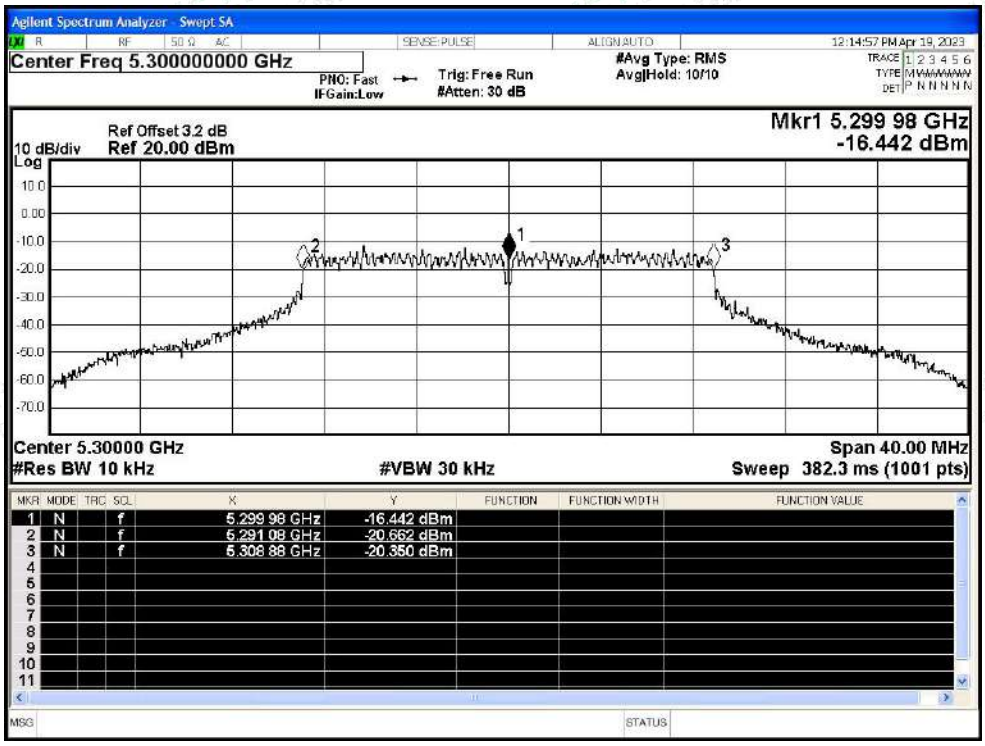
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	ac20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
NVNT	ax20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	ax20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	ax20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ax40	5270	Ant1	5270	0	0	25	Pass
NVNT	ax40	5310	Ant1	5310	0	0	25	Pass

Test Graphs

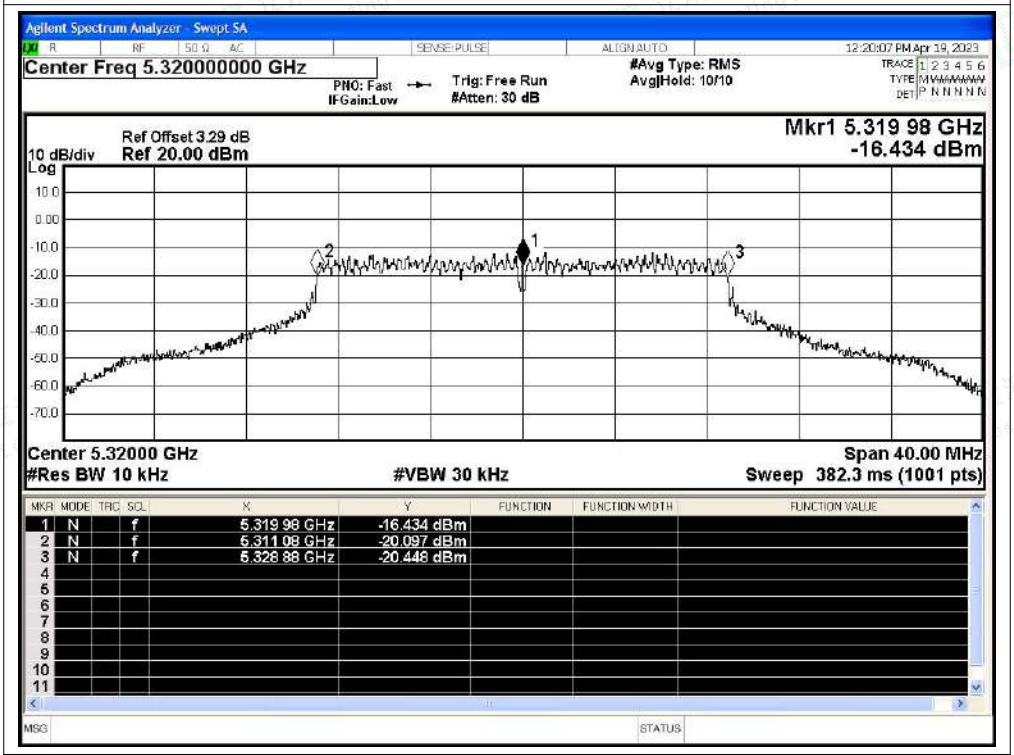
Freq. Stability NVNT ac20 5260MHz Ant1



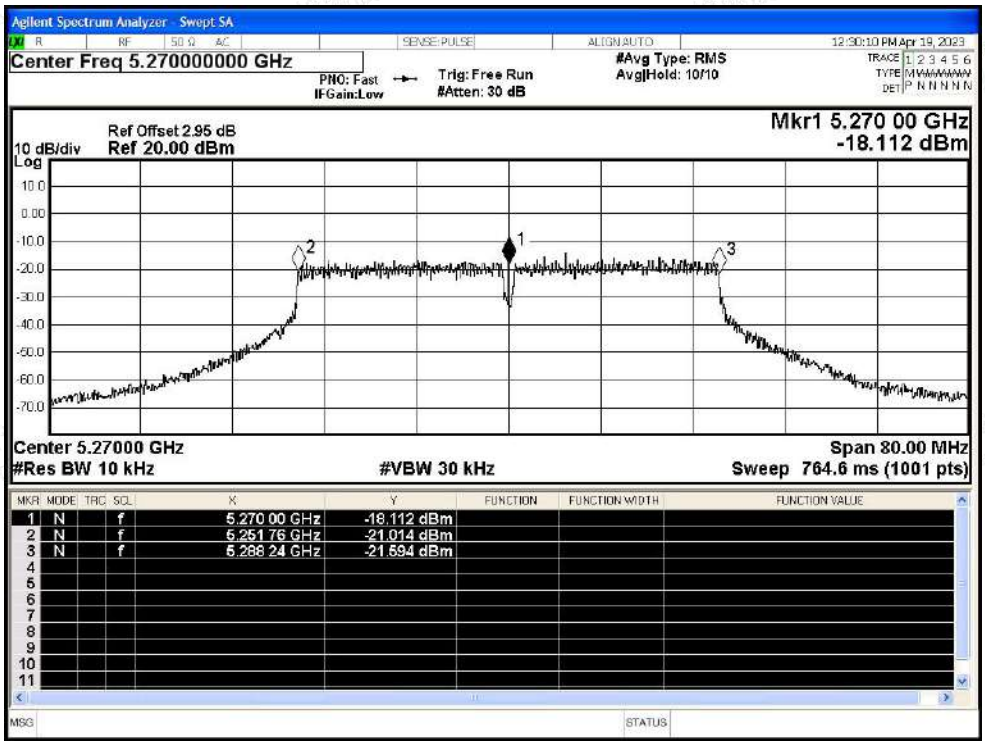
Freq. Stability NVNT ac20 5300MHz Ant1



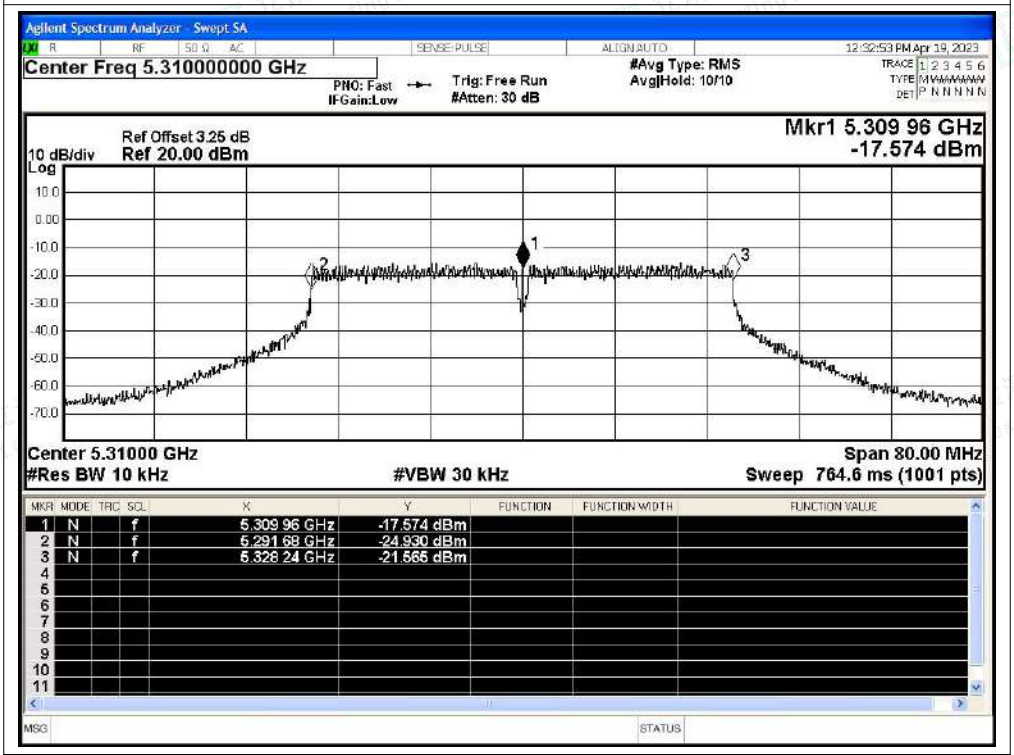
Freq. Stability NVNT ac20 5320MHz Ant1



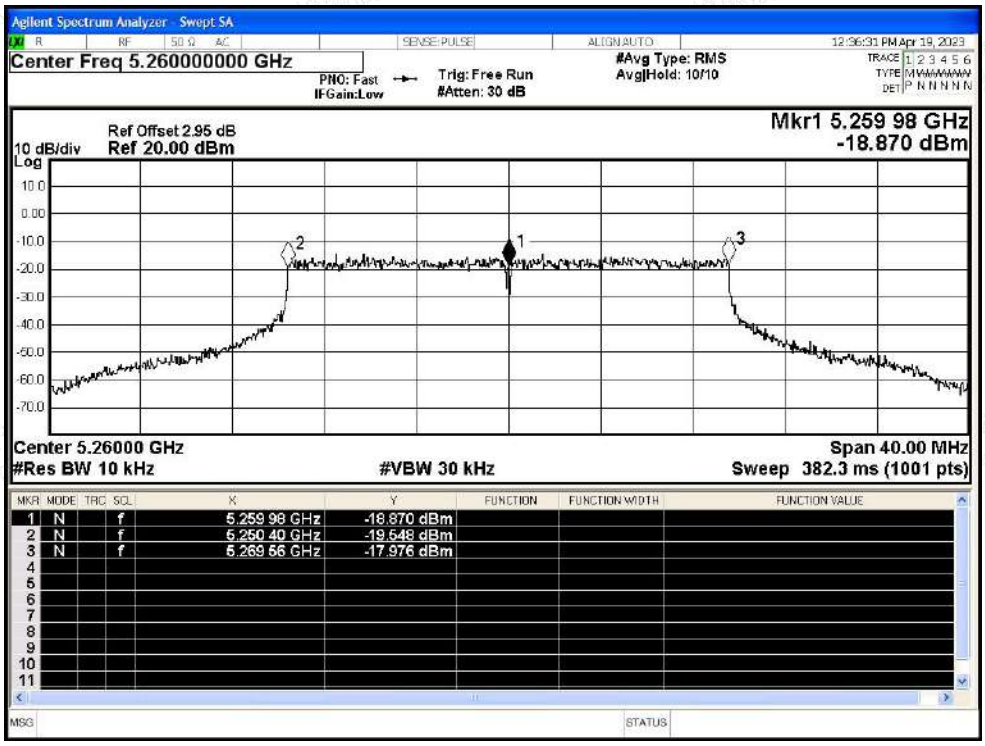
Freq. Stability NVNT ac40 5270MHz Ant1



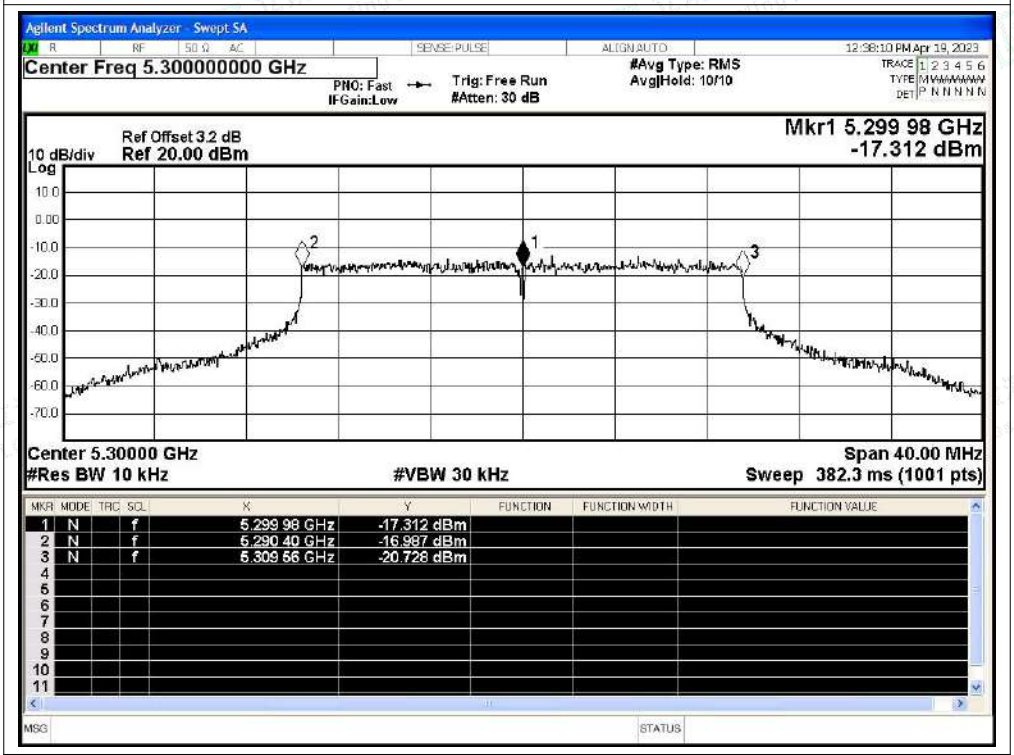
Freq. Stability NVNT ac40 5310MHz Ant1



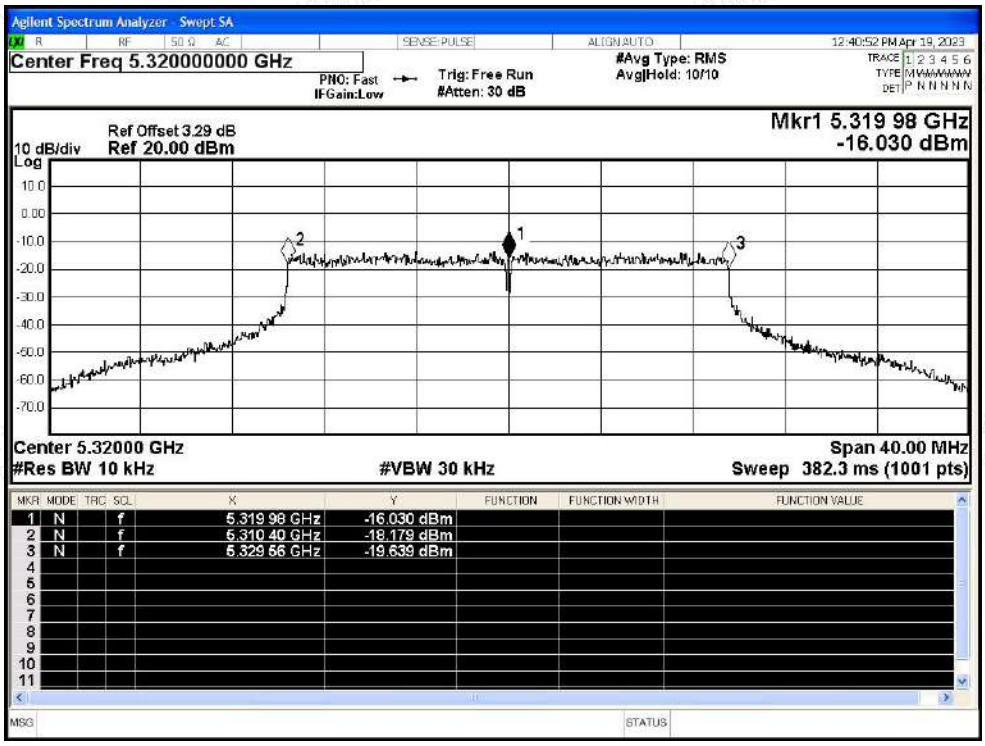
Freq. Stability NVNT ax20 5260MHz Ant1



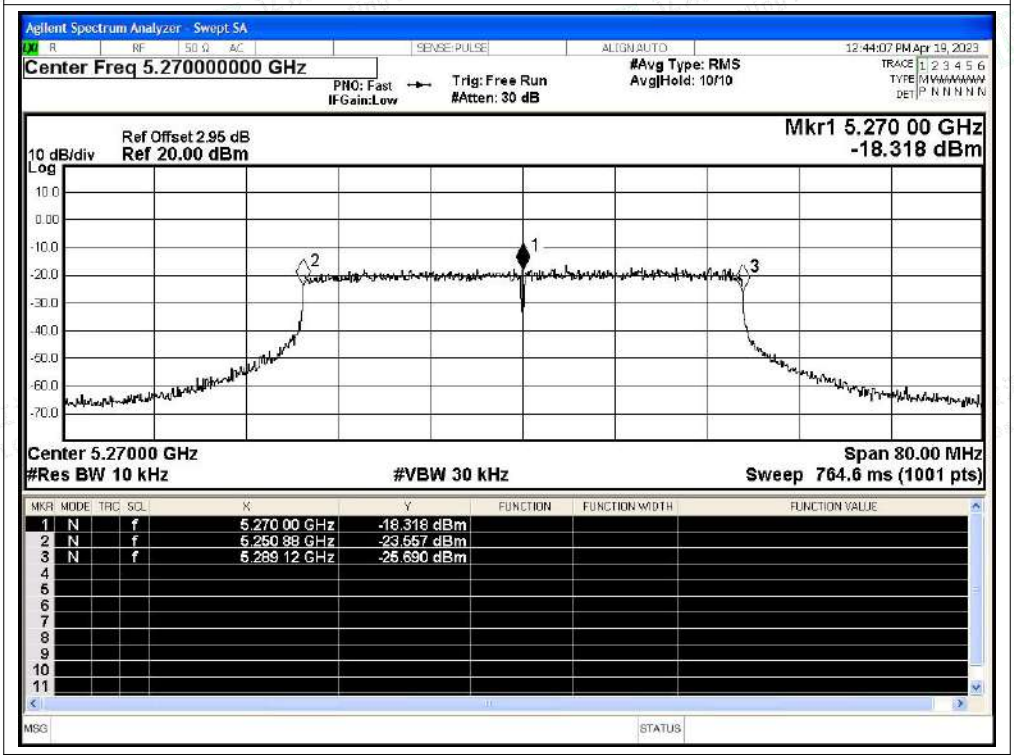
Freq. Stability NVNT ax20 5300MHz Ant1



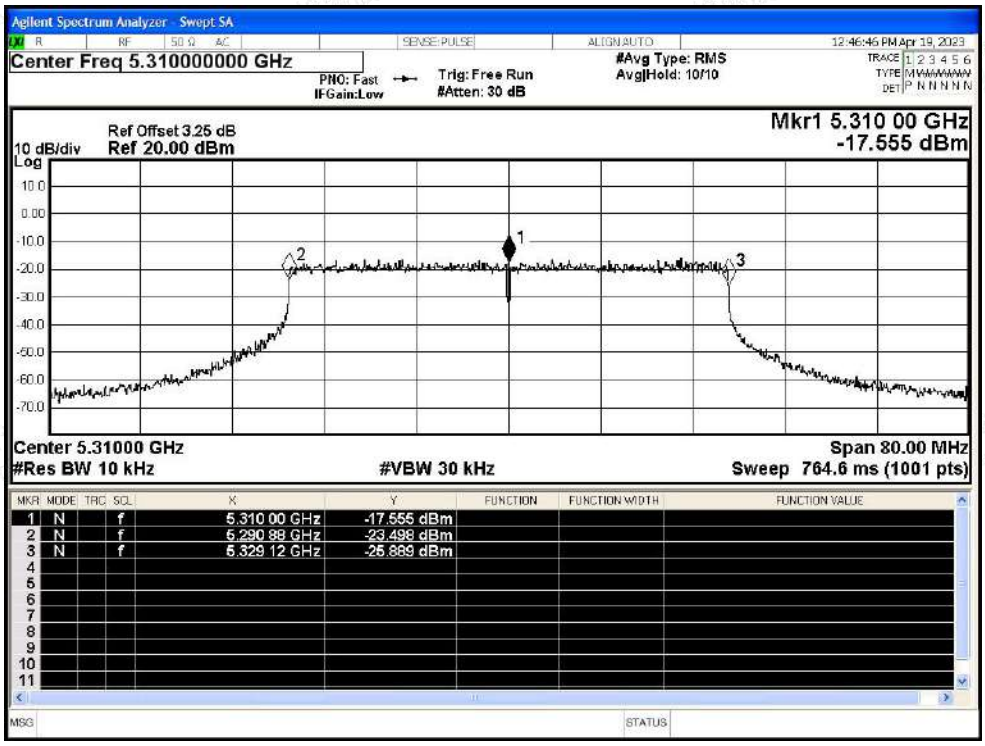
Freq. Stability NVNT ax20 5320MHz Ant1



Freq. Stability NVNT ax40 5270MHz Ant1



Freq. Stability NVNT ax40 5310MHz Ant1

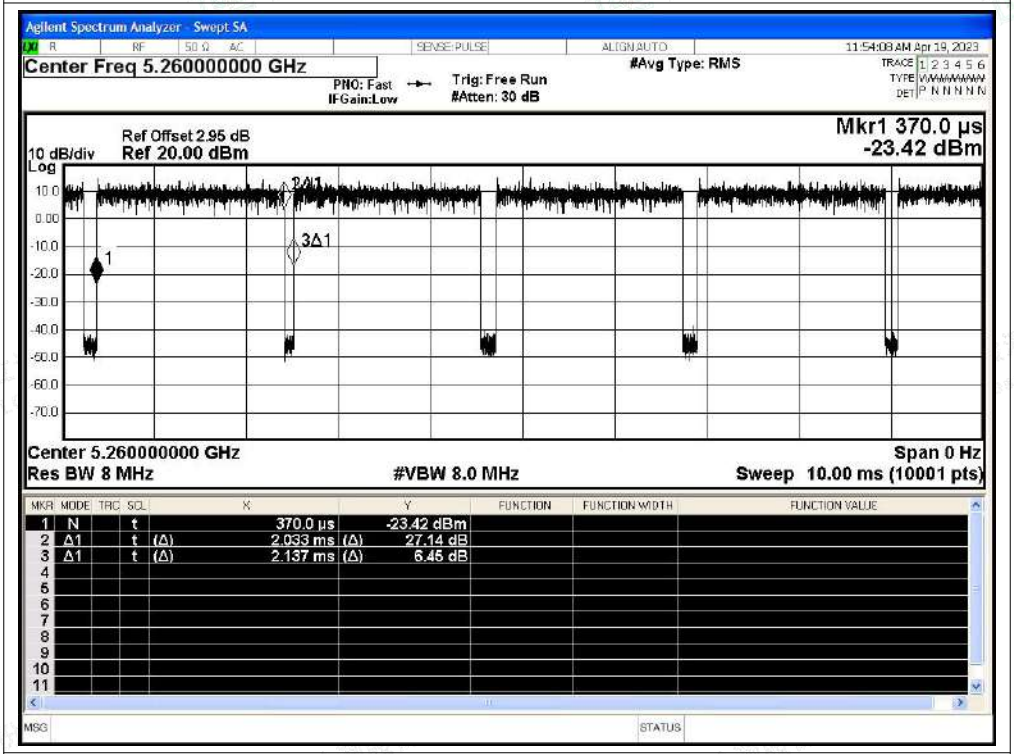


E.6 Duty Cycle

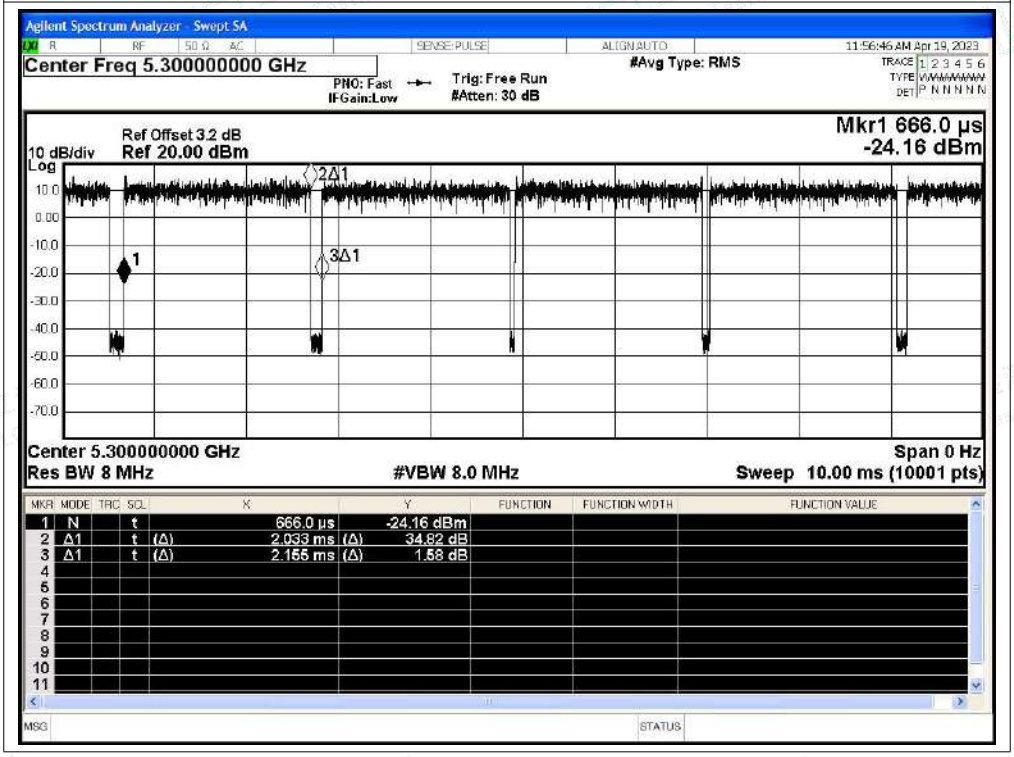
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	95.13	0.22	0.49
NVNT	a	5300	Ant1	94.34	0.25	0.49
NVNT	a	5320	Ant1	97.18	0.12	0.49
NVNT	n20	5260	Ant1	94.79	0.23	0.53
NVNT	n20	5300	Ant1	95.65	0.19	0.53
NVNT	n20	5320	Ant1	96.53	0.15	0.53
NVNT	n40	5270	Ant1	95.79	0.19	1.07
NVNT	n40	5310	Ant1	90.75	0.42	1.07
NVNT	ac20	5260	Ant1	96.99	0.13	0.53
NVNT	ac20	5300	Ant1	96.94	0.13	0.53
NVNT	ac20	5320	Ant1	94.81	0.23	0.53
NVNT	ac40	5270	Ant1	86.27	0.64	1.07
NVNT	ac40	5310	Ant1	85.57	0.68	1.07
NVNT	ax20	5260	Ant1	92.73	0.33	0.69
NVNT	ax20	5300	Ant1	94.42	0.25	0.69
NVNT	ax20	5320	Ant1	87.61	0.57	0.69
NVNT	ax40	5270	Ant1	85.98	0.66	1.34
NVNT	ax40	5310	Ant1	82.31	0.85	1.34

Test Graphs

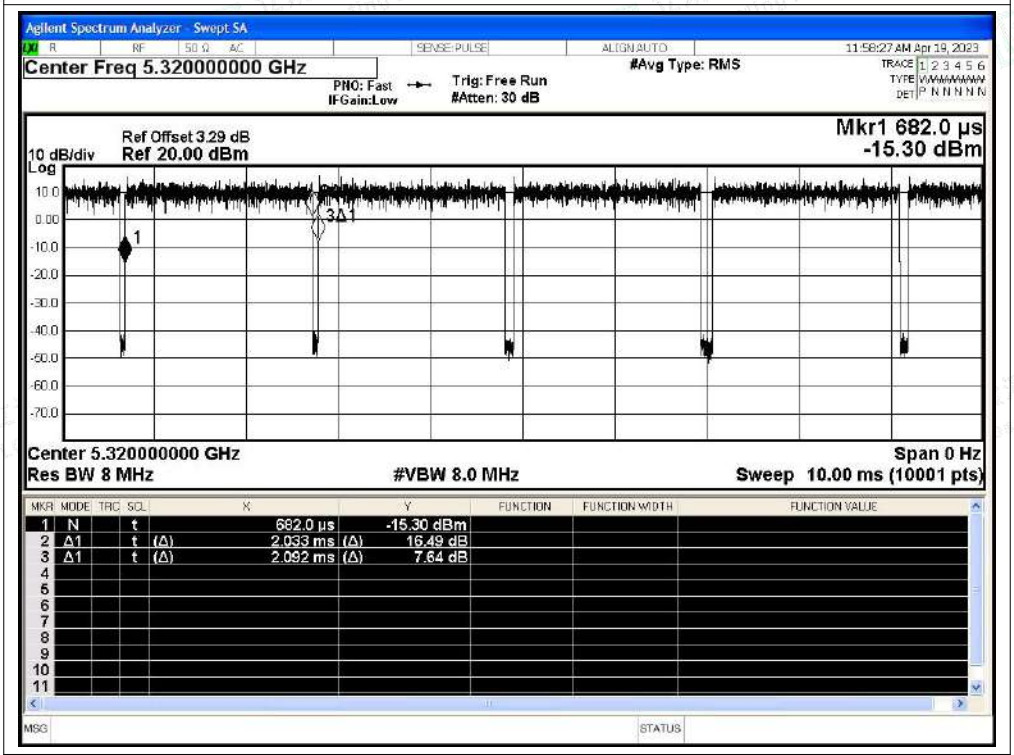
Duty Cycle NVNT a 5260MHz Ant1



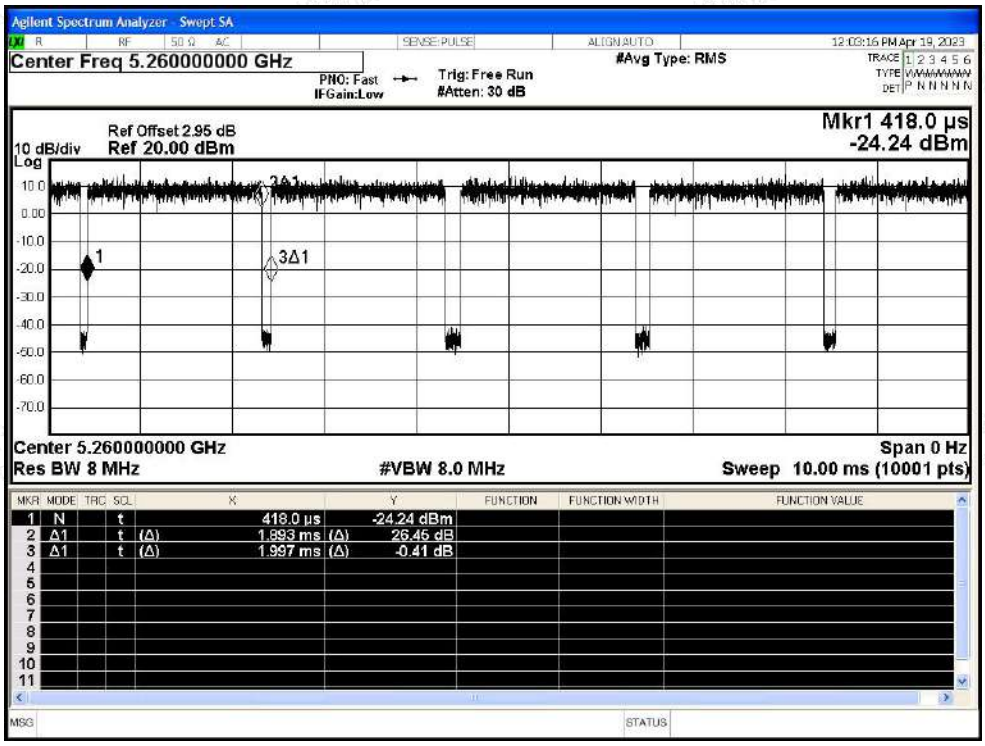
Duty Cycle NVNT a 5300MHz Ant1



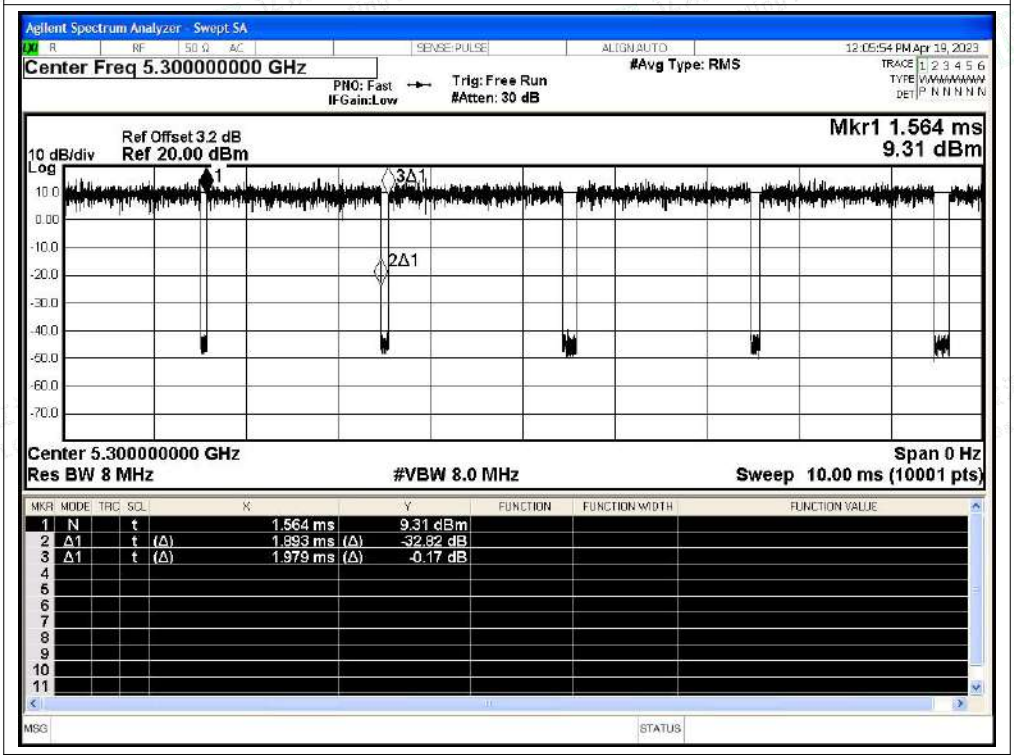
Duty Cycle NVNT a 5320MHz Ant1



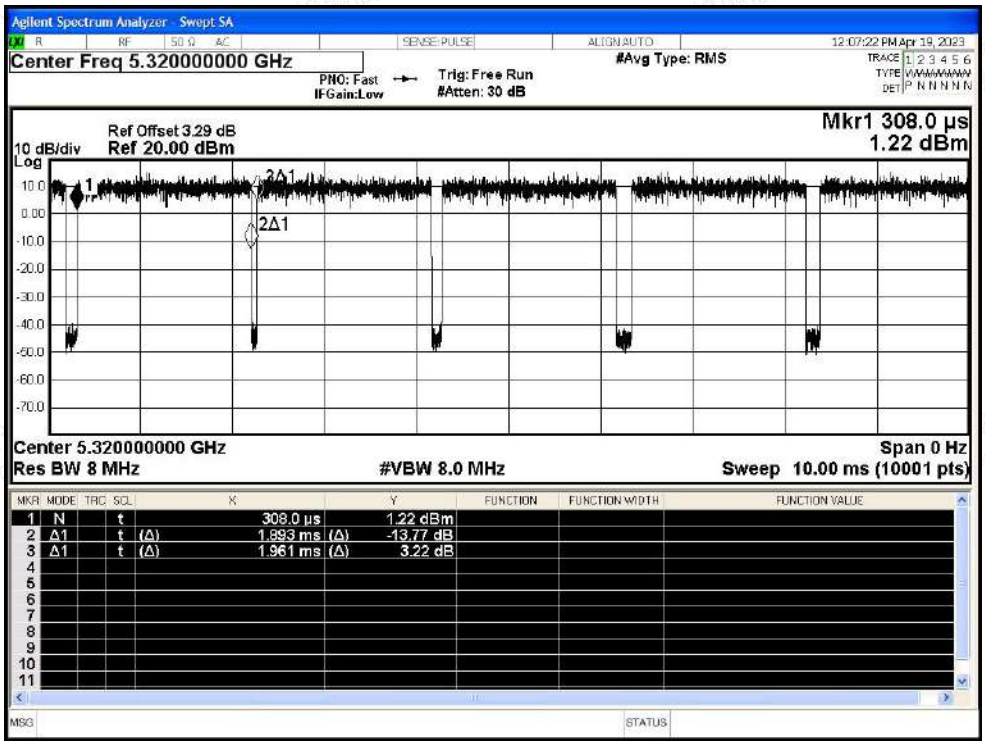
Duty Cycle NVNT n20 5260MHz Ant1



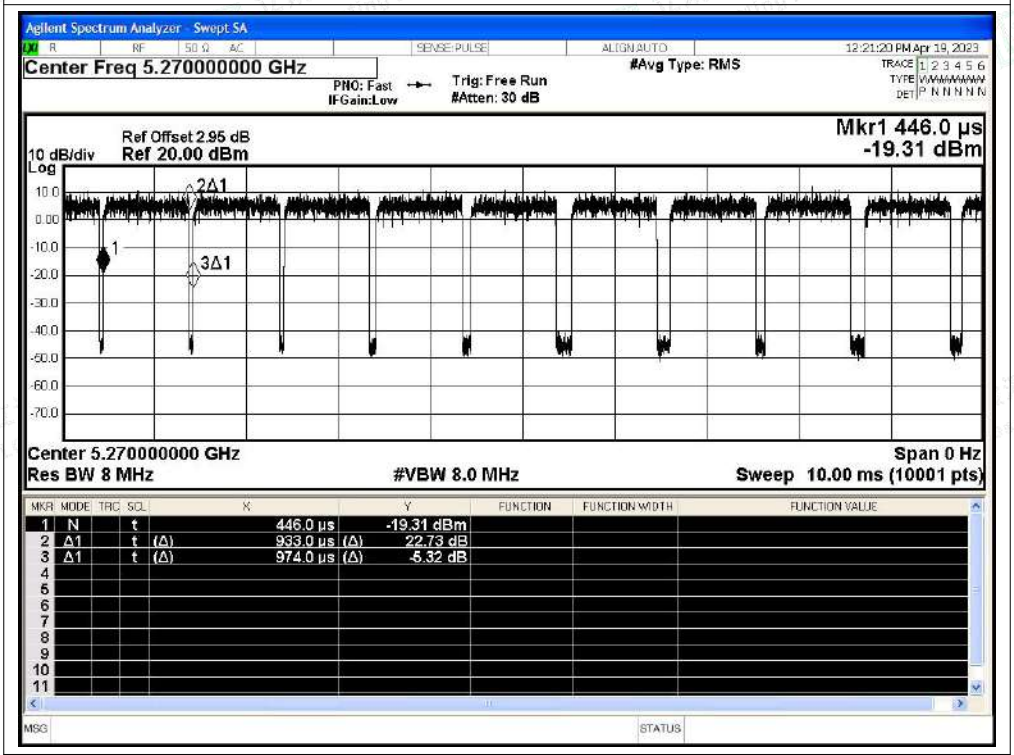
Duty Cycle NVNT n20 5300MHz Ant1



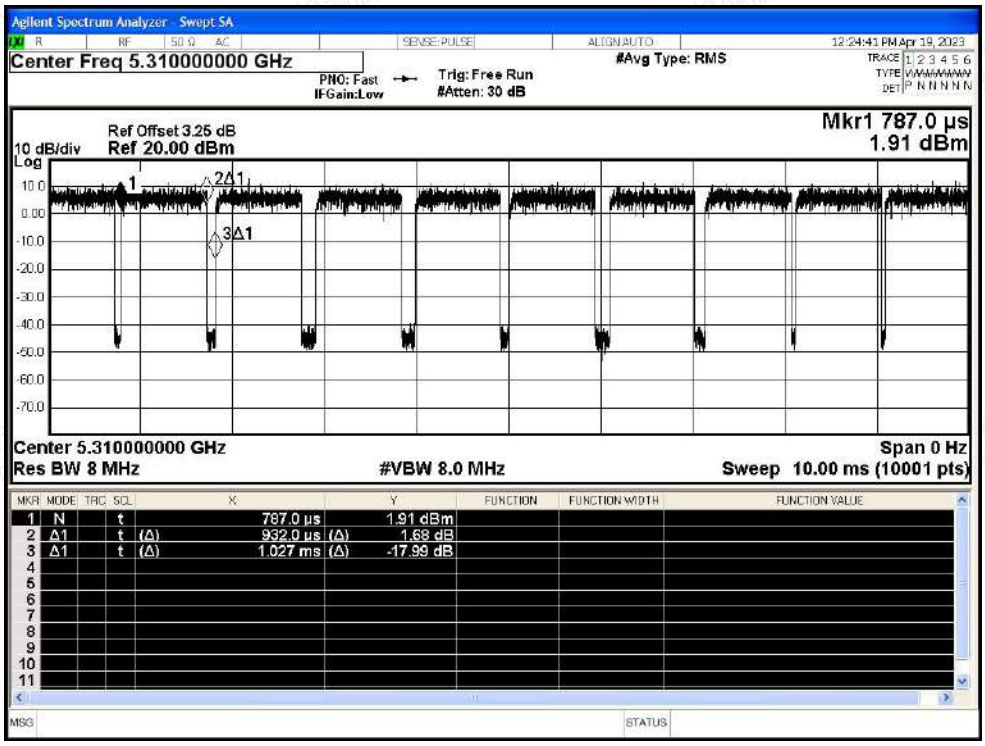
Duty Cycle NVNT n20 5320MHz Ant1



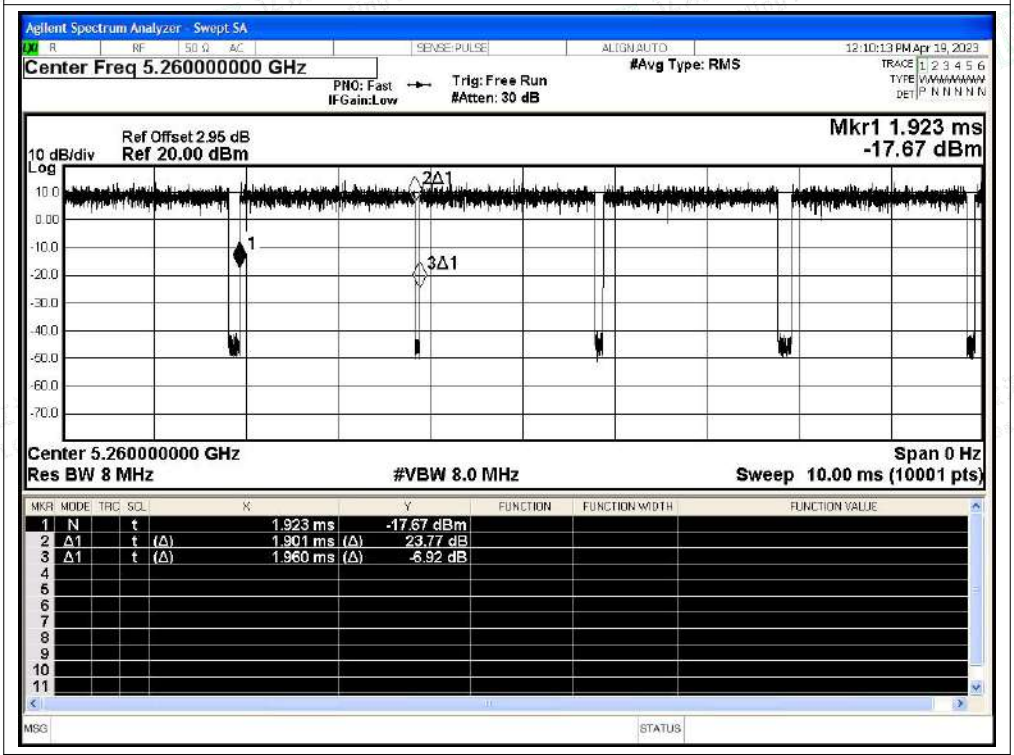
Duty Cycle NVNT n40 5270MHz Ant1



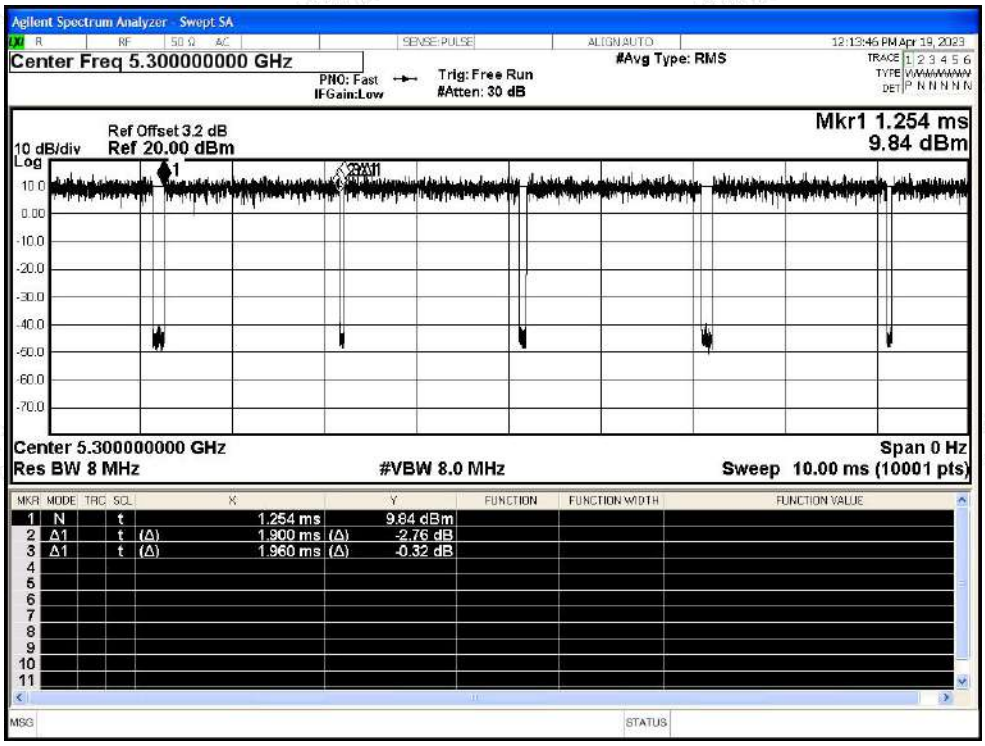
Duty Cycle NVNT n40 5310MHz Ant1



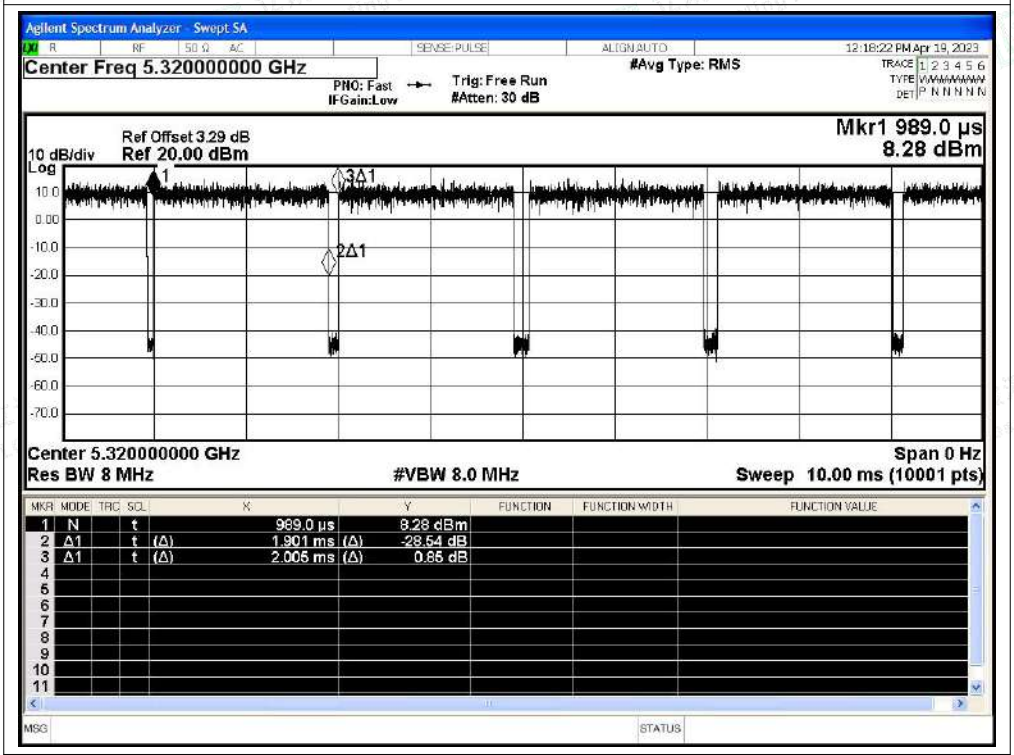
Duty Cycle NVNT ac20 5260MHz Ant1



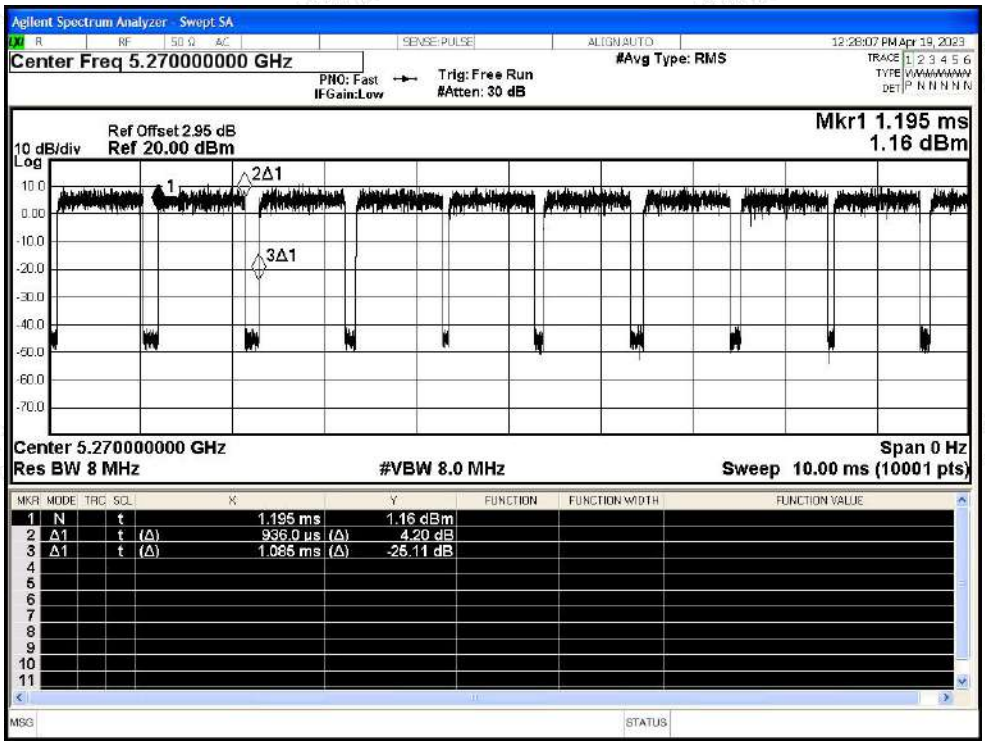
Duty Cycle NVNT ac20 5300MHz Ant1



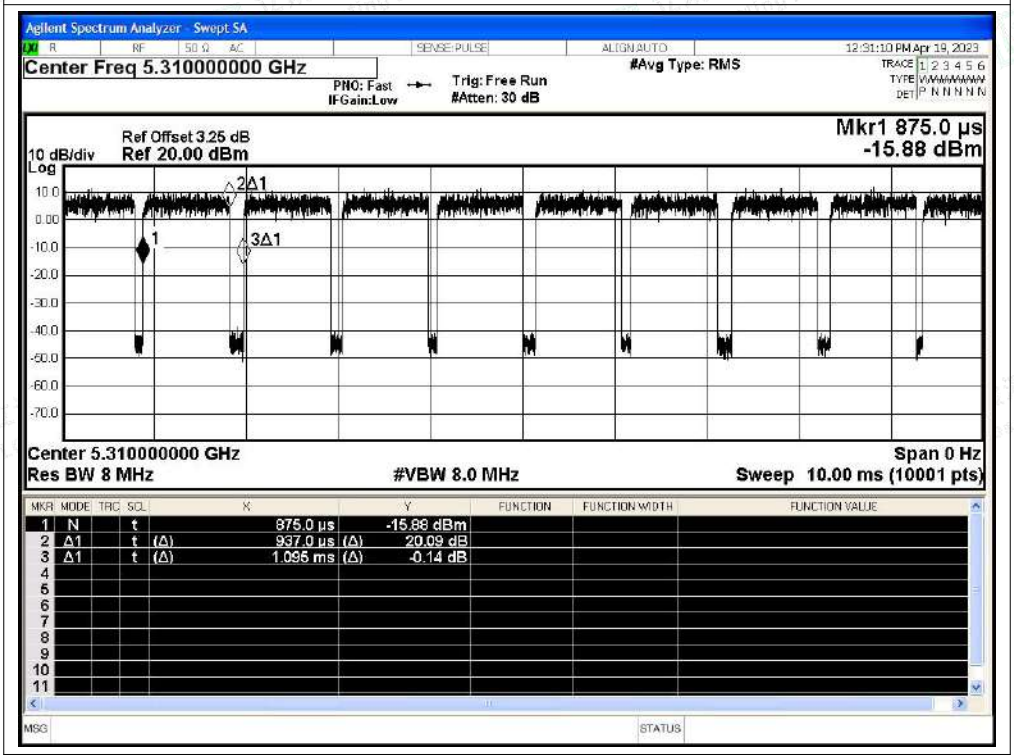
Duty Cycle NVNT ac20 5320MHz Ant1



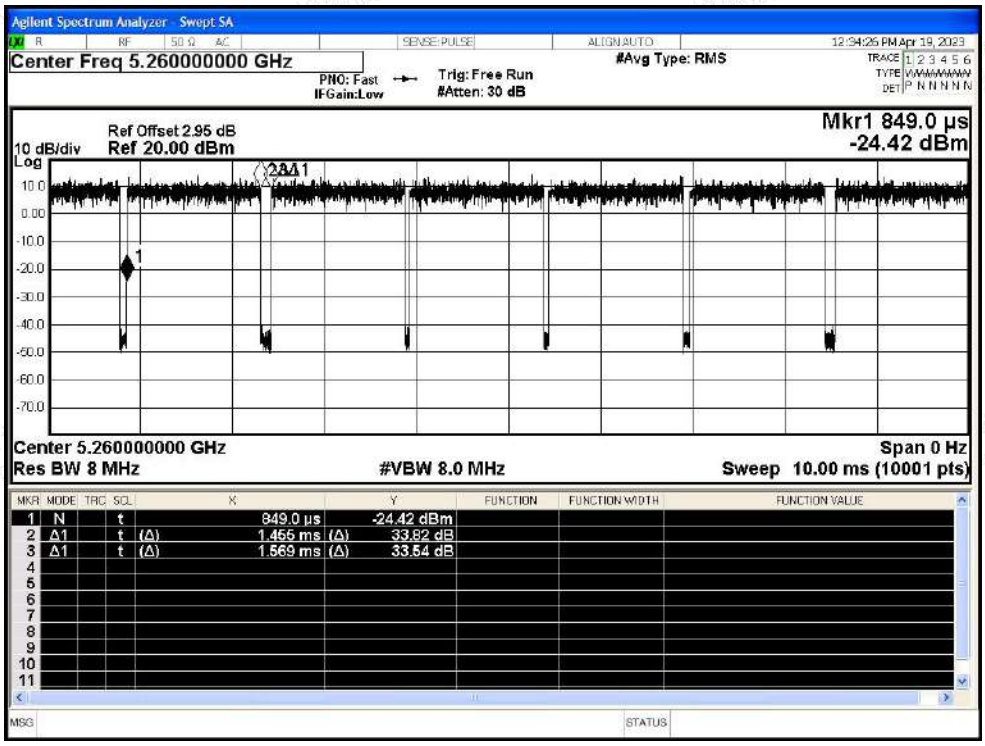
Duty Cycle NVNT ac40 5270MHz Ant1



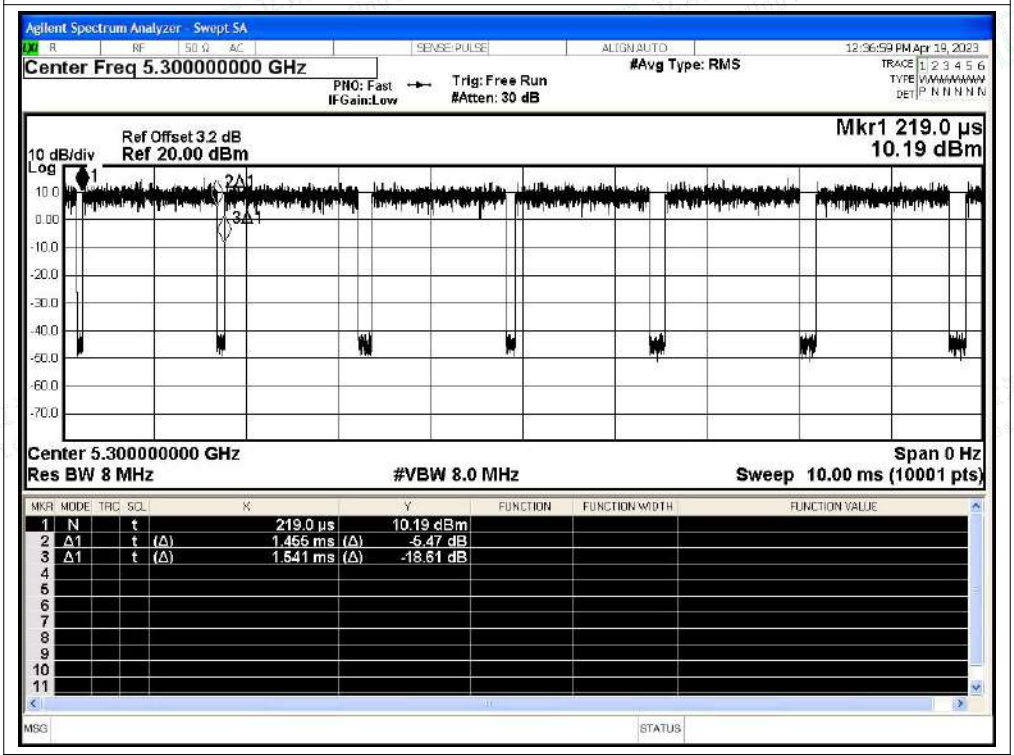
Duty Cycle NVNT ac40 5310MHz Ant1



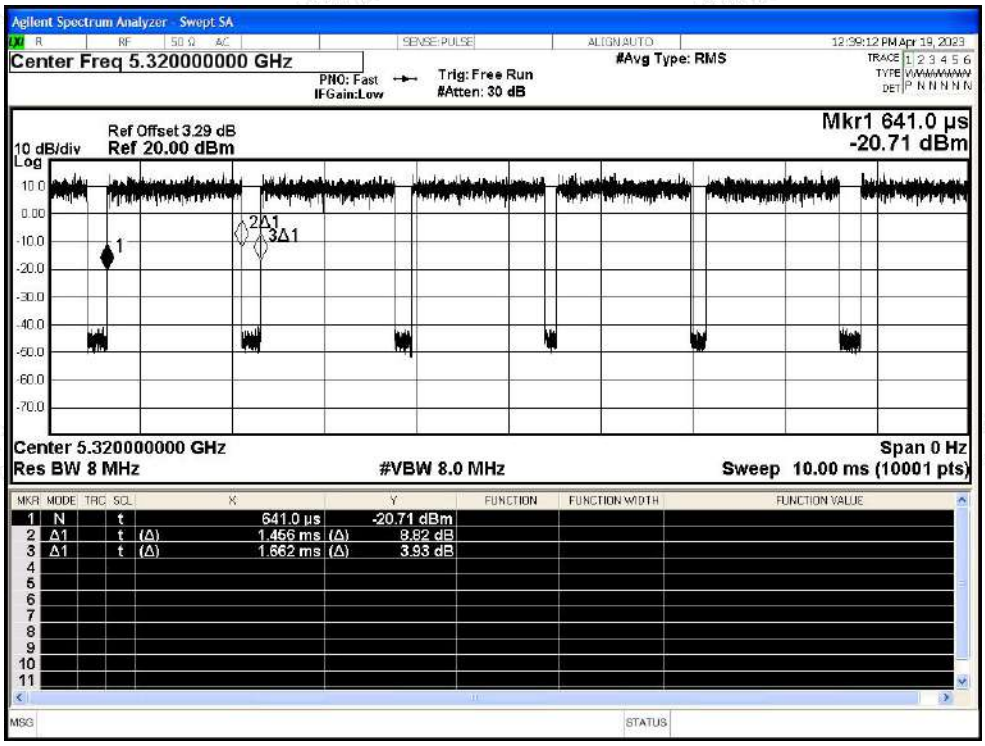
Duty Cycle NVNT ax20 5260MHz Ant1



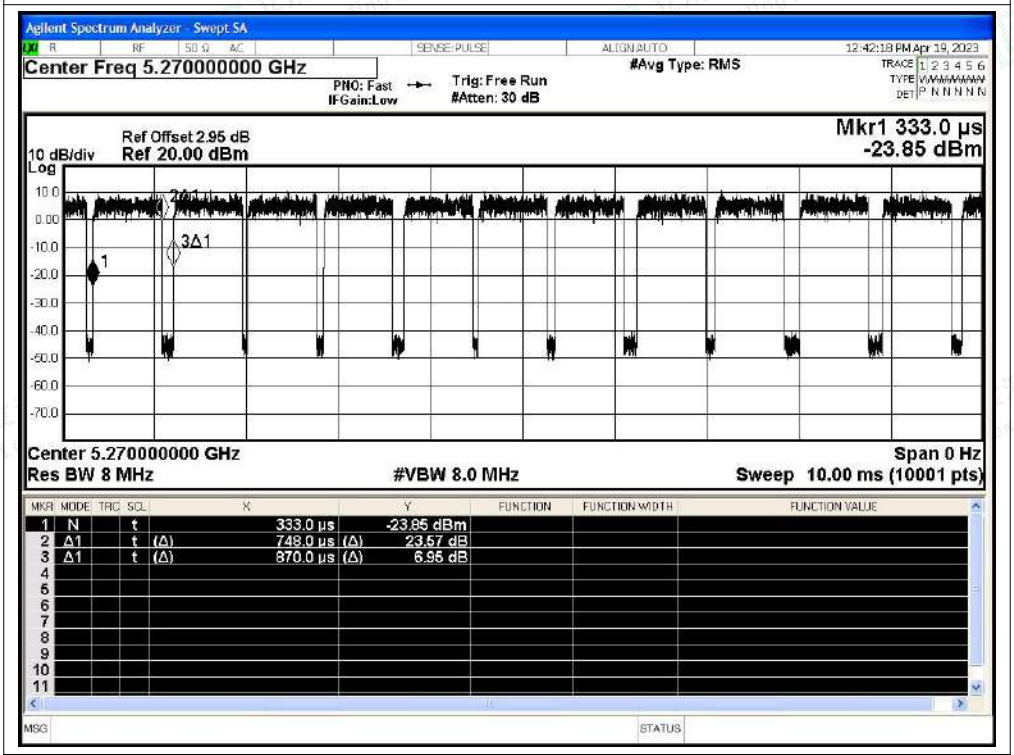
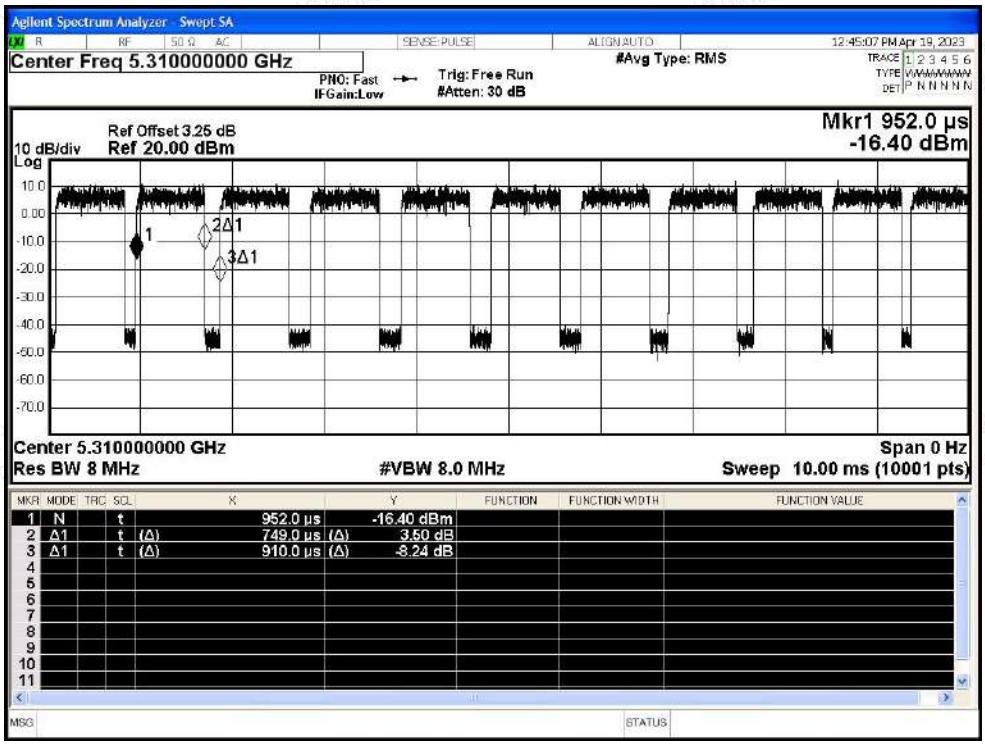
Duty Cycle NVNT ax20 5300MHz Ant1



Duty Cycle NVNT ax20 5320MHz Ant1



Duty Cycle NVNT ax40 5270MHz Ant1



Duty Cycle NVNT ax40 5310MHz Ant1