Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: K19

Environmental Conditions

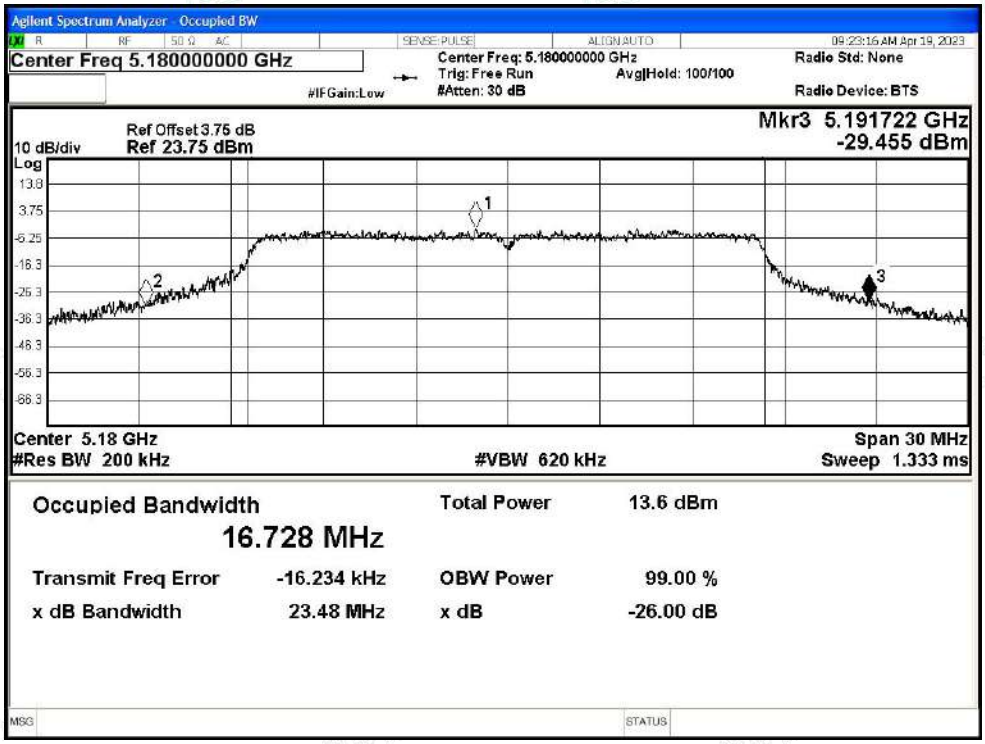
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu

D.1 -26dB Bandwidth

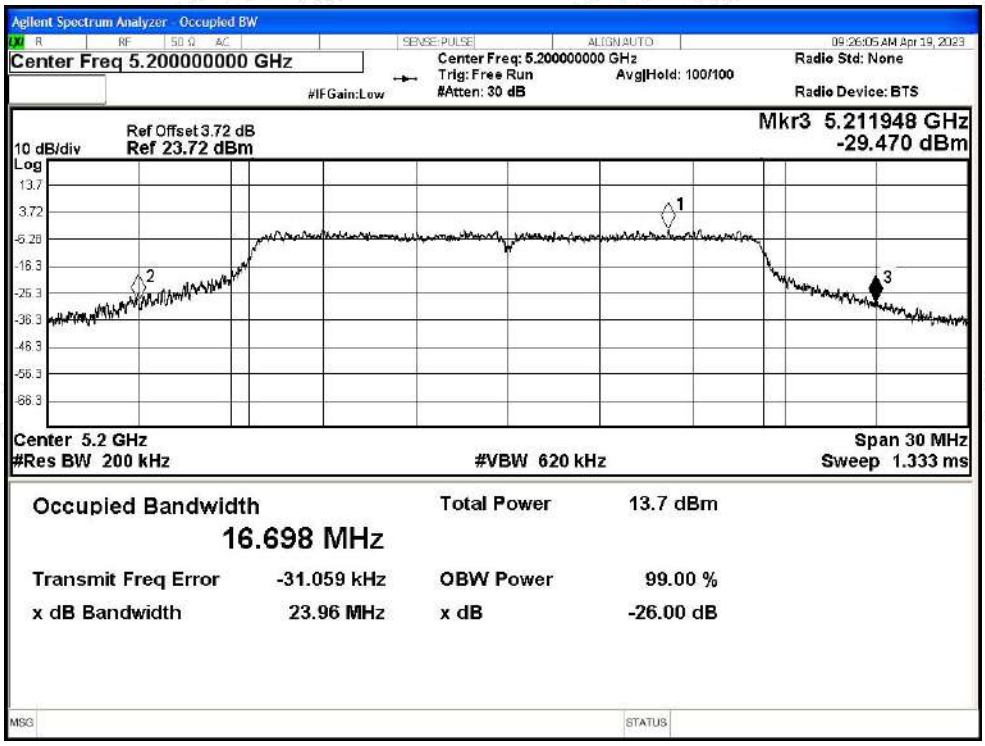
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.476	N/A	Pass
NVNT	a	5200	Ant1	23.957	N/A	Pass
NVNT	a	5240	Ant1	23.657	N/A	Pass
NVNT	n20	5180	Ant1	24.611	N/A	Pass
NVNT	n20	5200	Ant1	24.255	N/A	Pass
NVNT	n20	5240	Ant1	24.831	N/A	Pass
NVNT	n40	5190	Ant1	45.447	N/A	Pass
NVNT	n40	5230	Ant1	46.374	N/A	Pass
NVNT	ac20	5180	Ant1	24.202	N/A	Pass
NVNT	ac20	5200	Ant1	24.95	N/A	Pass
NVNT	ac20	5240	Ant1	24.914	N/A	Pass
NVNT	ac40	5190	Ant1	46.745	N/A	Pass
NVNT	ac40	5230	Ant1	47.929	N/A	Pass
NVNT	ax20	5180	Ant1	25.407	N/A	Pass
NVNT	ax20	5200	Ant1	25.269	N/A	Pass
NVNT	ax20	5240	Ant1	25.178	N/A	Pass
NVNT	ax40	5190	Ant1	44.969	N/A	Pass
NVNT	ax40	5230	Ant1	43.567	N/A	Pass

Test Graphs

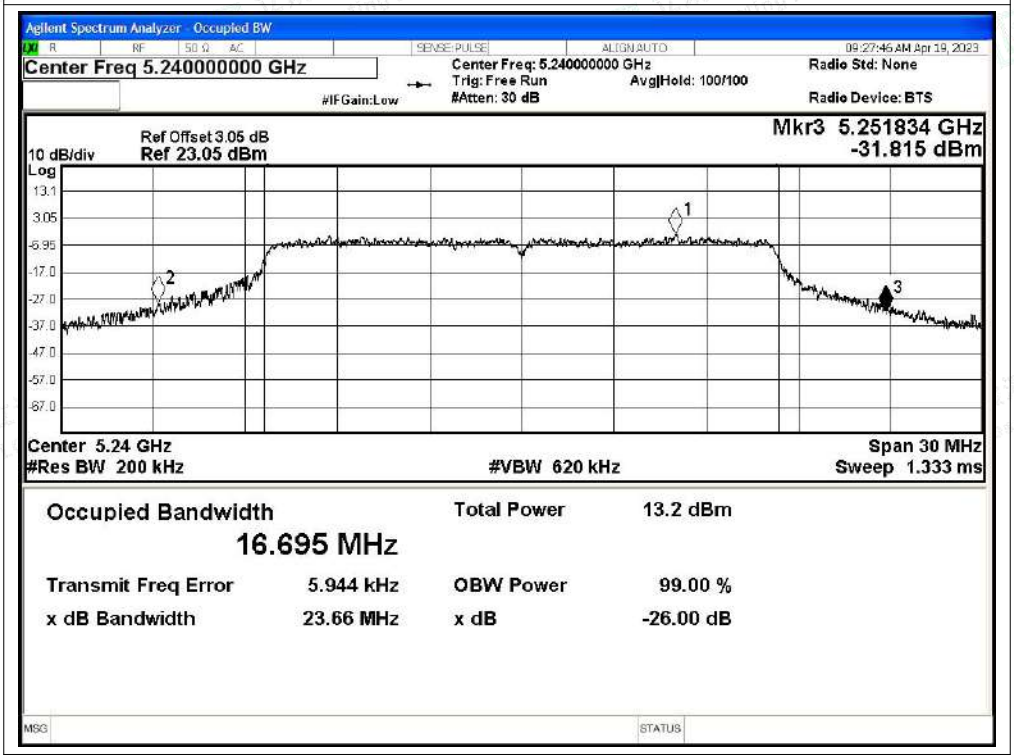
-26dB Bandwidth NVNT a 5180MHz Ant1



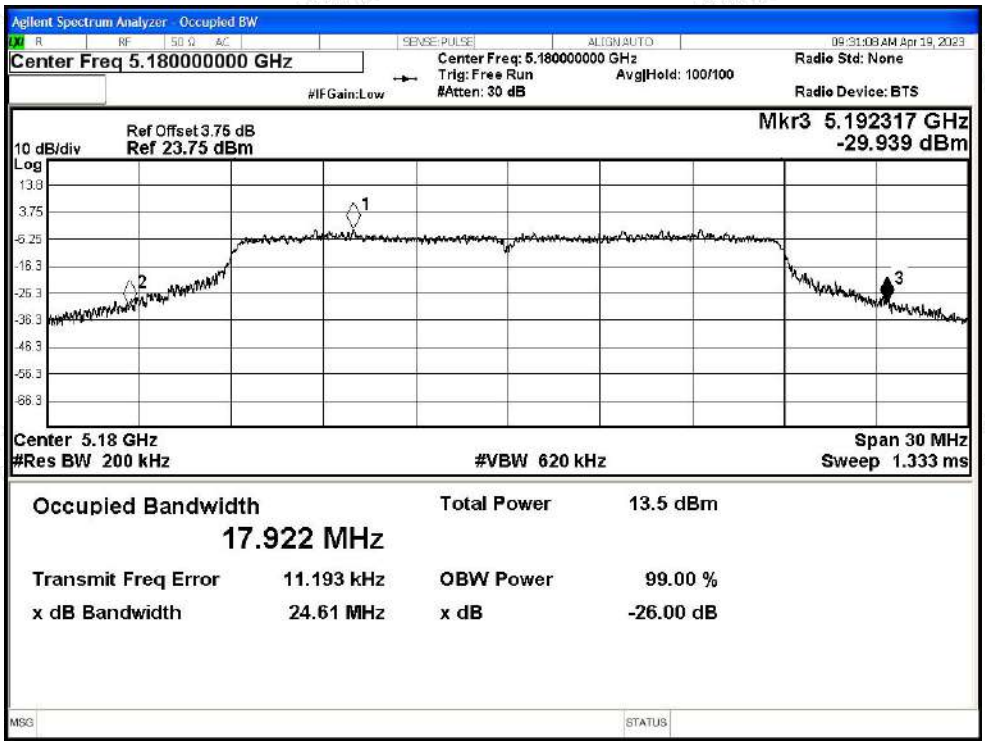
-26dB Bandwidth NVNT a 5200MHz Ant1



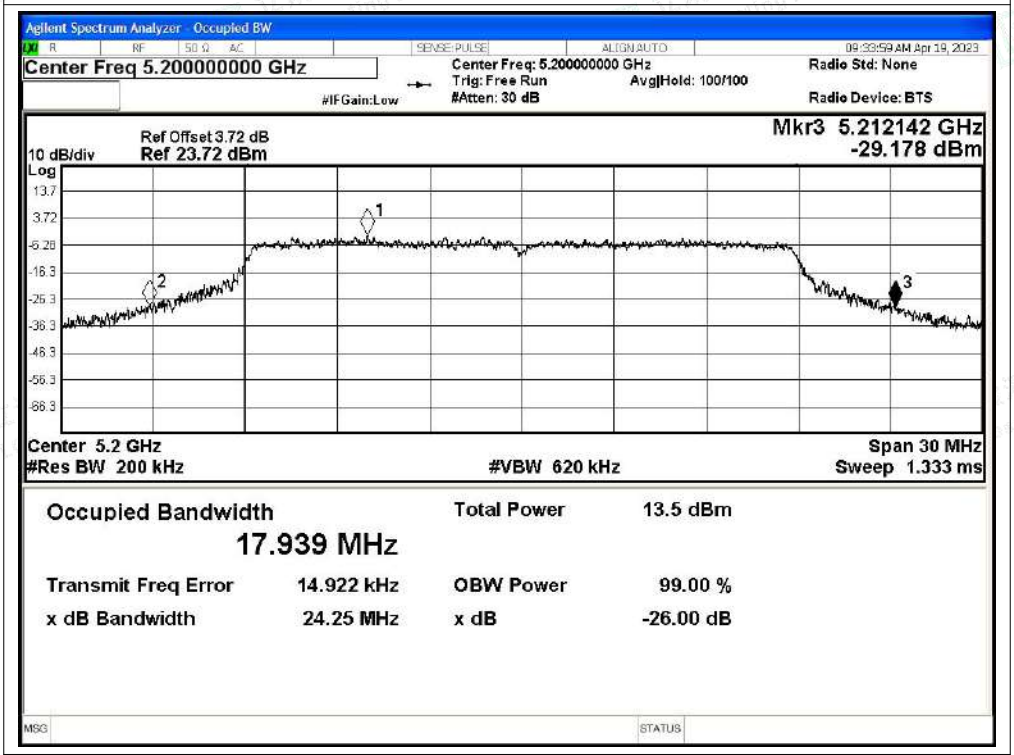
-26dB Bandwidth NVNT a 5240MHz Ant1



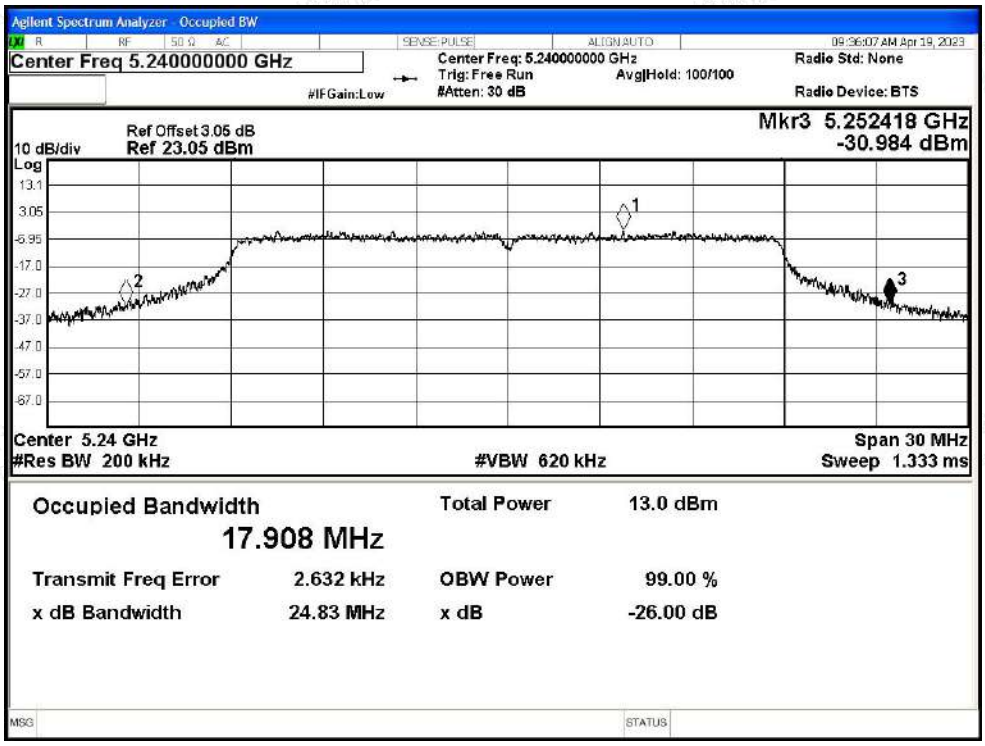
-26dB Bandwidth NVNT n20 5180MHz Ant1



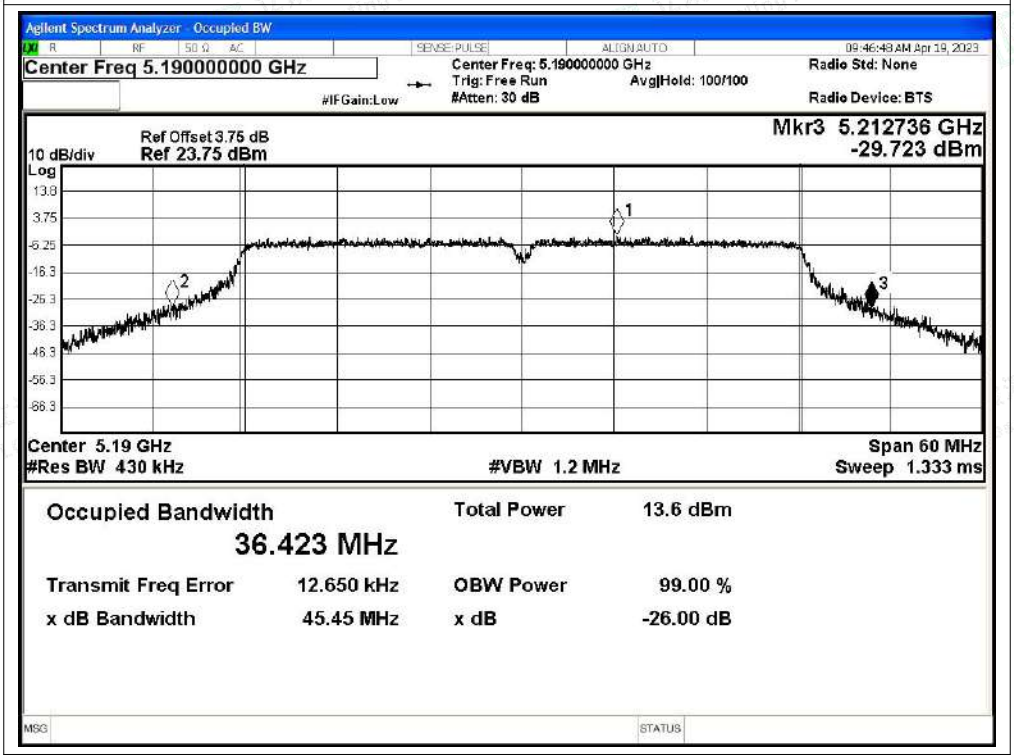
-26dB Bandwidth NVNT n20 5200MHz Ant1



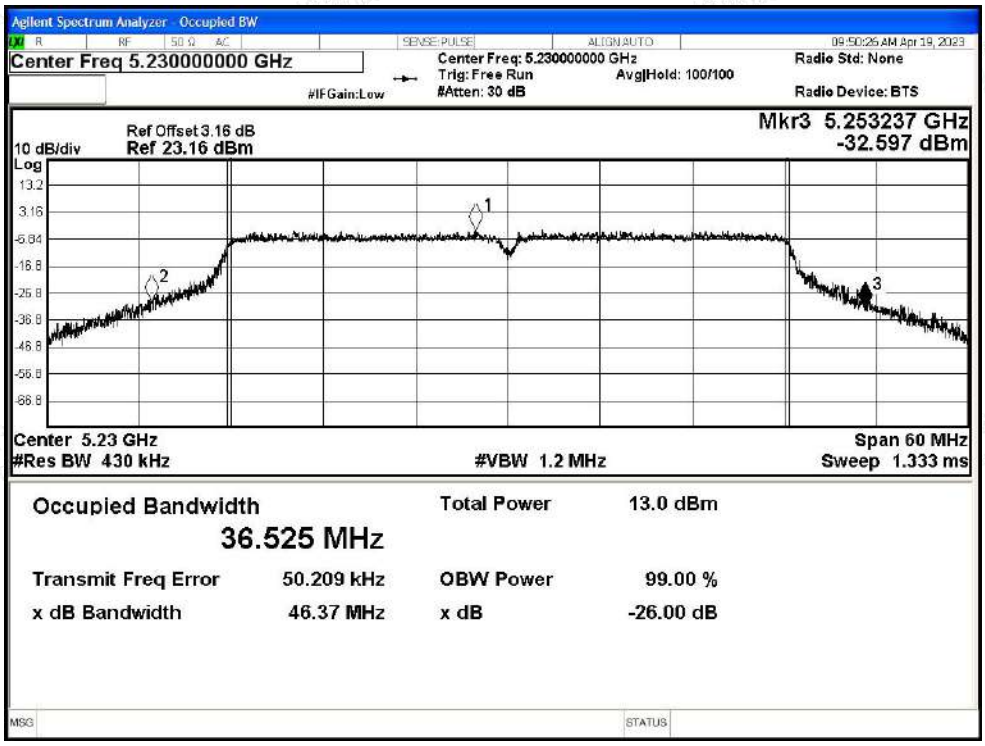
-26dB Bandwidth NVNT n20 5240MHz Ant1



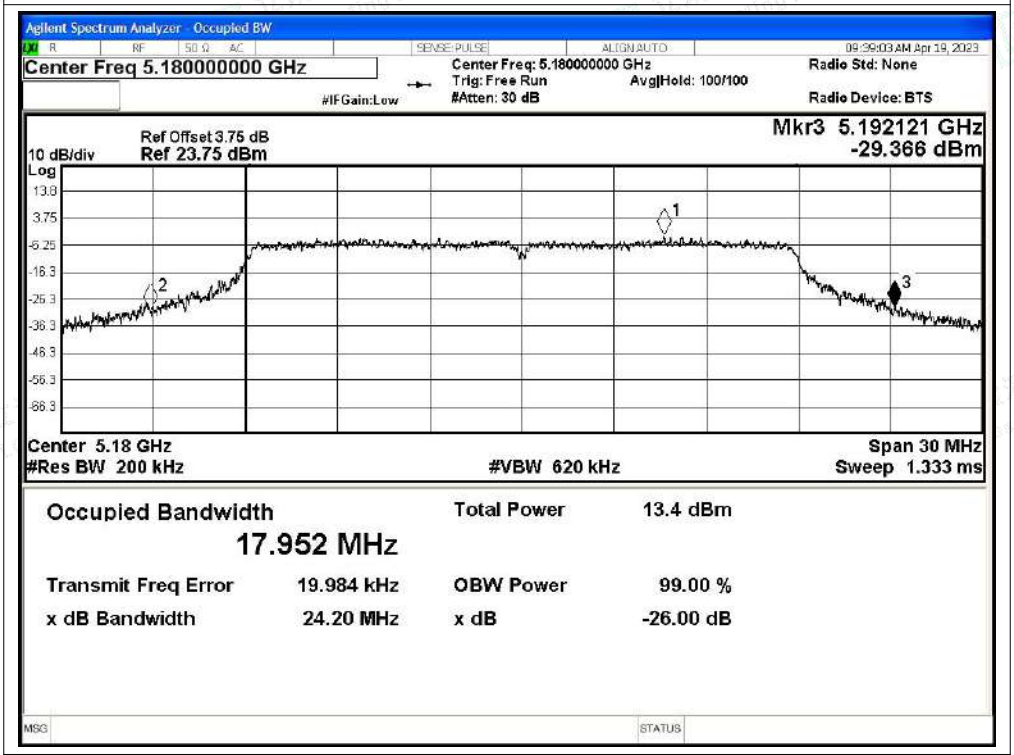
-26dB Bandwidth NVNT n40 5190MHz Ant1



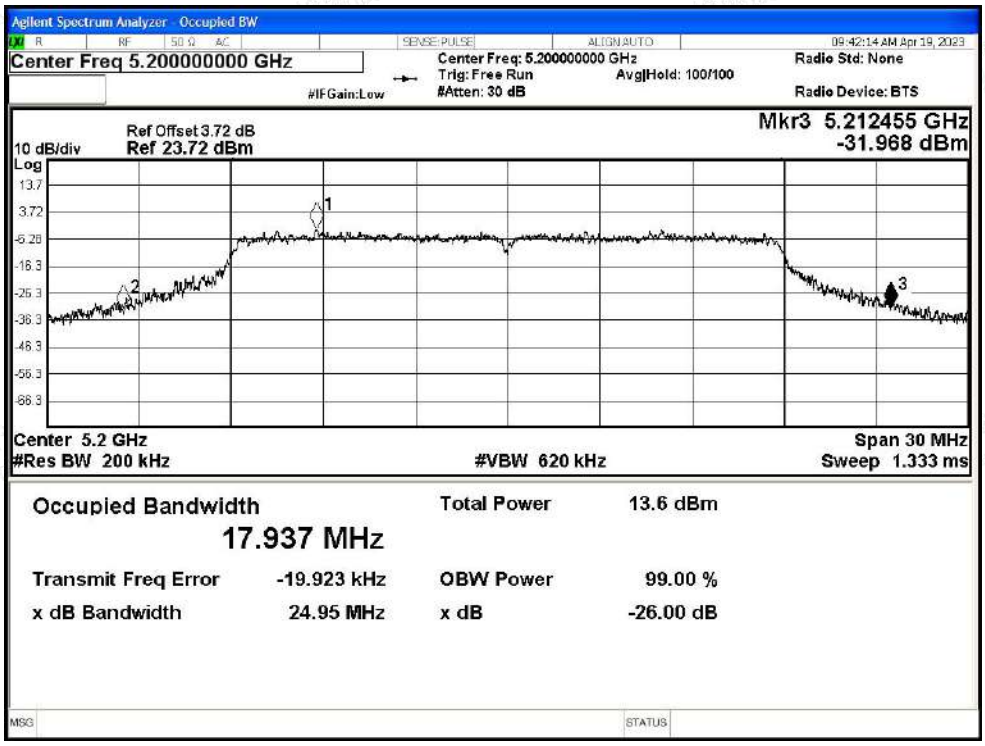
-26dB Bandwidth NVNT n40 5230MHz Ant1



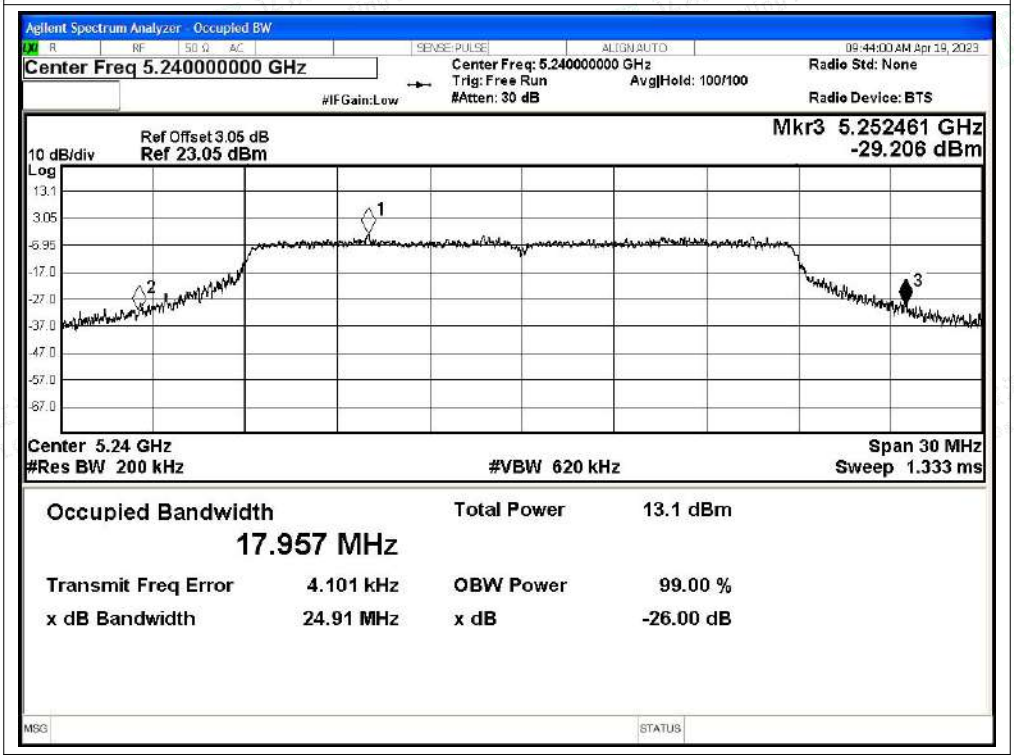
-26dB Bandwidth NVNT ac20 5180MHz Ant1



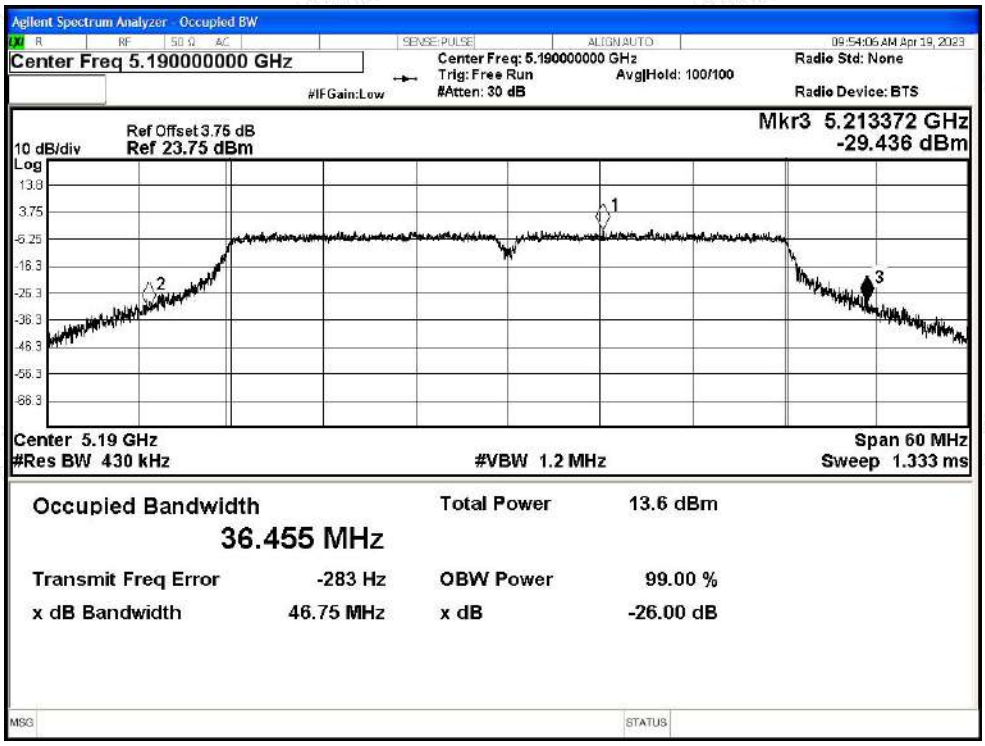
-26dB Bandwidth NVNT ac20 5200MHz Ant1



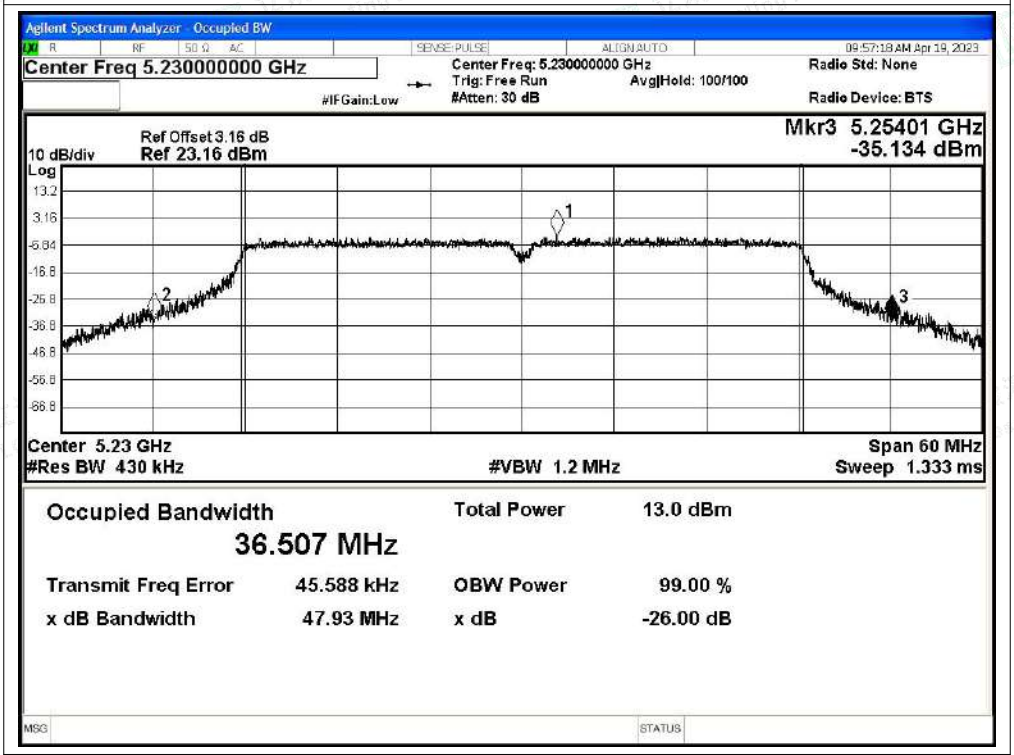
-26dB Bandwidth NVNT ac20 5240MHz Ant1



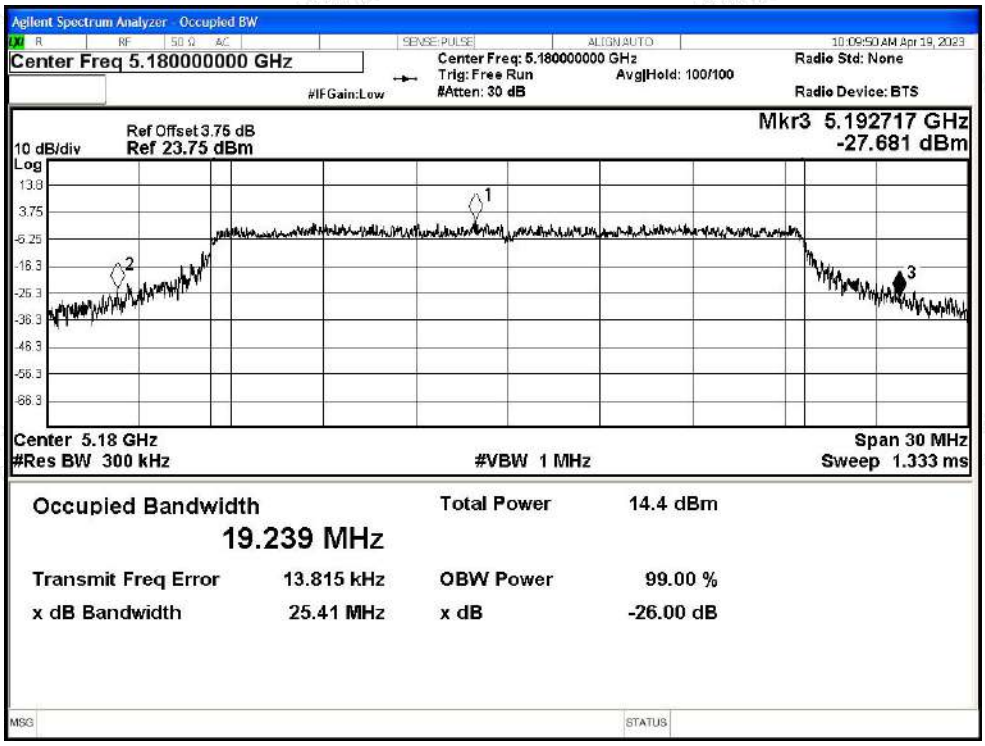
-26dB Bandwidth NVNT ac40 5190MHz Ant1



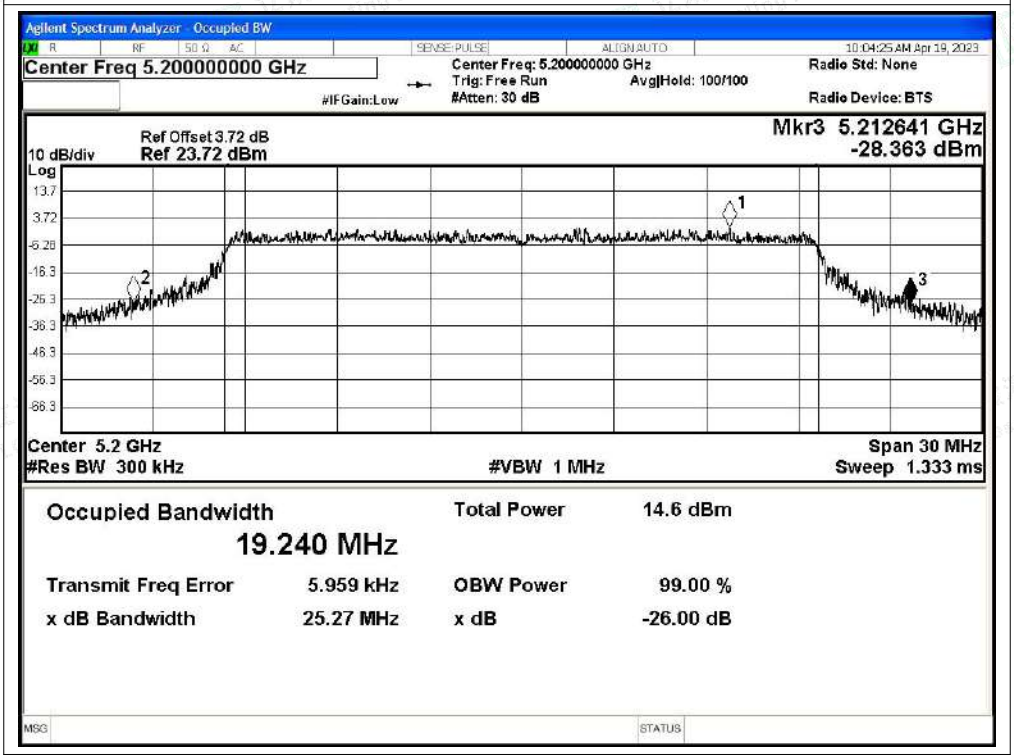
-26dB Bandwidth NVNT ac40 5230MHz Ant1



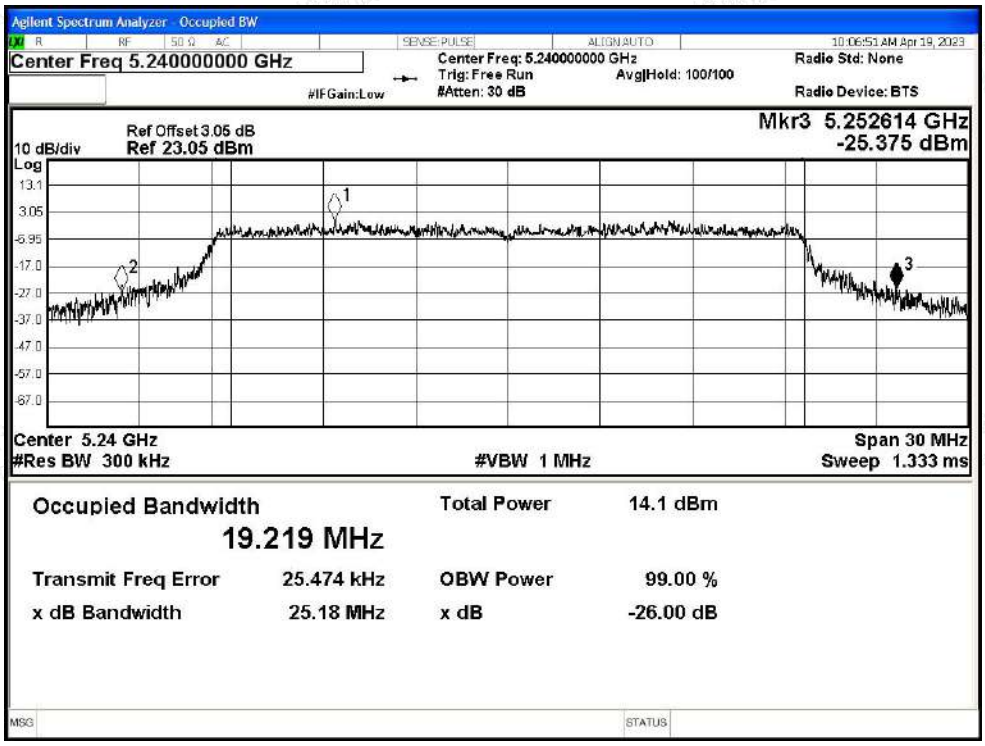
-26dB Bandwidth NVNT ax20 5180MHz Ant1



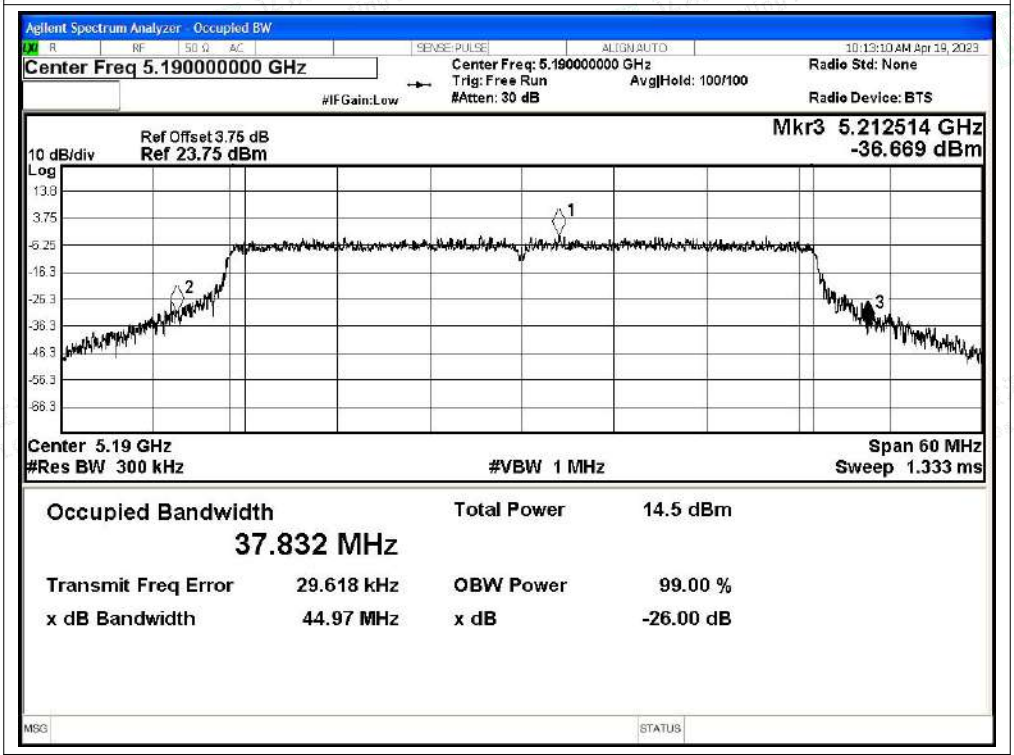
-26dB Bandwidth NVNT ax20 5200MHz Ant1



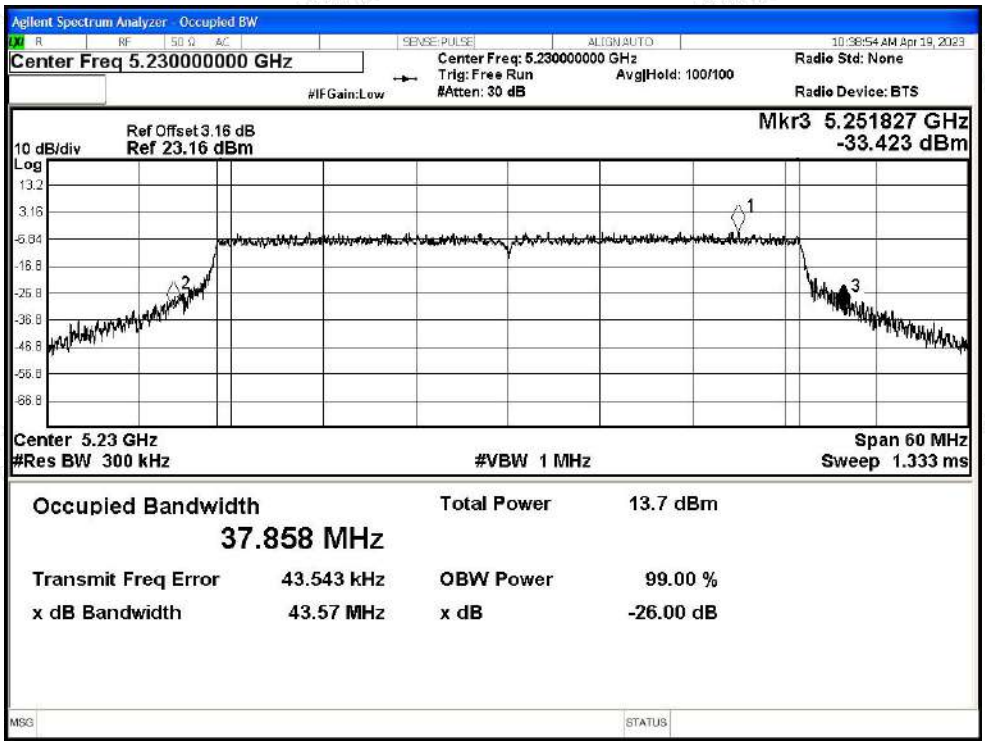
-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant1



D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.02	24	Pass
NVNT	a	5200	Ant1	7.40	24	Pass
NVNT	a	5240	Ant1	7.77	24	Pass
NVNT	n20	5180	Ant1	7.82	24	Pass
NVNT	n20	5200	Ant1	7.96	24	Pass
NVNT	n20	5240	Ant1	7.82	24	Pass
NVNT	n40	5190	Ant1	7.01	24	Pass
NVNT	n40	5230	Ant1	7.48	24	Pass
NVNT	ac20	5180	Ant1	7.95	24	Pass
NVNT	ac20	5200	Ant1	7.89	24	Pass
NVNT	ac20	5240	Ant1	7.62	24	Pass
NVNT	ac40	5190	Ant1	7.90	24	Pass
NVNT	ac40	5230	Ant1	7.07	24	Pass
NVNT	ax20	5180	Ant1	7.14	24	Pass
NVNT	ax20	5200	Ant1	7.99	24	Pass
NVNT	ax20	5240	Ant1	7.72	24	Pass
NVNT	ax40	5190	Ant1	7.15	24	Pass
NVNT	ax40	5230	Ant1	7.50	24	Pass

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

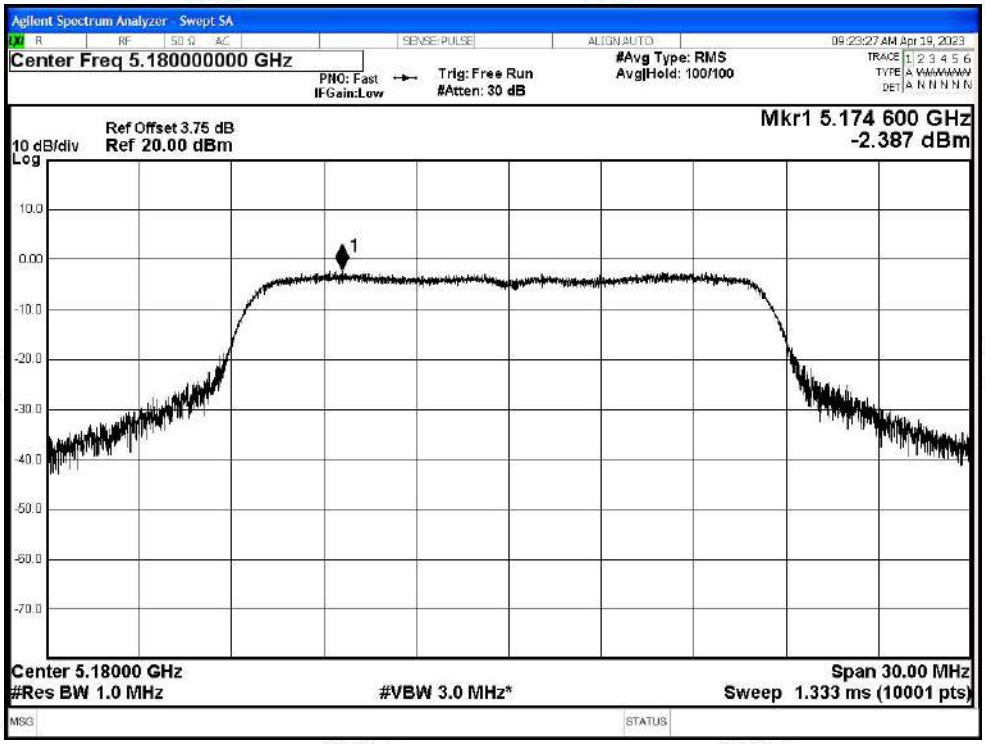
D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.04	11	Pass
NVNT	a	5200	Ant1	-2.11	11	Pass
NVNT	a	5240	Ant1	-2.76	11	Pass
NVNT	n20	5180	Ant1	-2.59	11	Pass
NVNT	n20	5200	Ant1	-2.8	11	Pass
NVNT	n20	5240	Ant1	-2.76	11	Pass
NVNT	n40	5190	Ant1	-5.77	11	Pass
NVNT	n40	5230	Ant1	-6.38	11	Pass
NVNT	ac20	5180	Ant1	-2.35	11	Pass
NVNT	ac20	5200	Ant1	-2.82	11	Pass
NVNT	ac20	5240	Ant1	-3.01	11	Pass
NVNT	ac40	5190	Ant1	-5.87	11	Pass
NVNT	ac40	5230	Ant1	-6.31	11	Pass
NVNT	ax20	5180	Ant1	-2.65	11	Pass
NVNT	ax20	5200	Ant1	-3.01	11	Pass
NVNT	ax20	5240	Ant1	-3.28	11	Pass
NVNT	ax40	5190	Ant1	-6.02	11	Pass
NVNT	ax40	5230	Ant1	-6.45	11	Pass

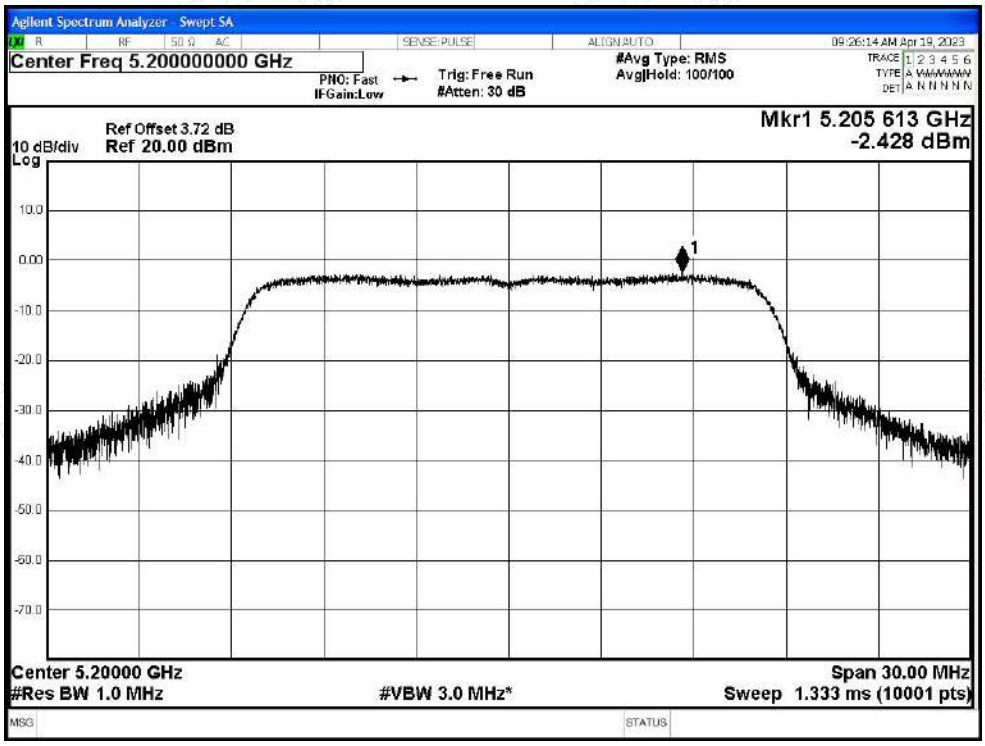
Note: The Duty factor is included in the total PSD.

Test Graphs

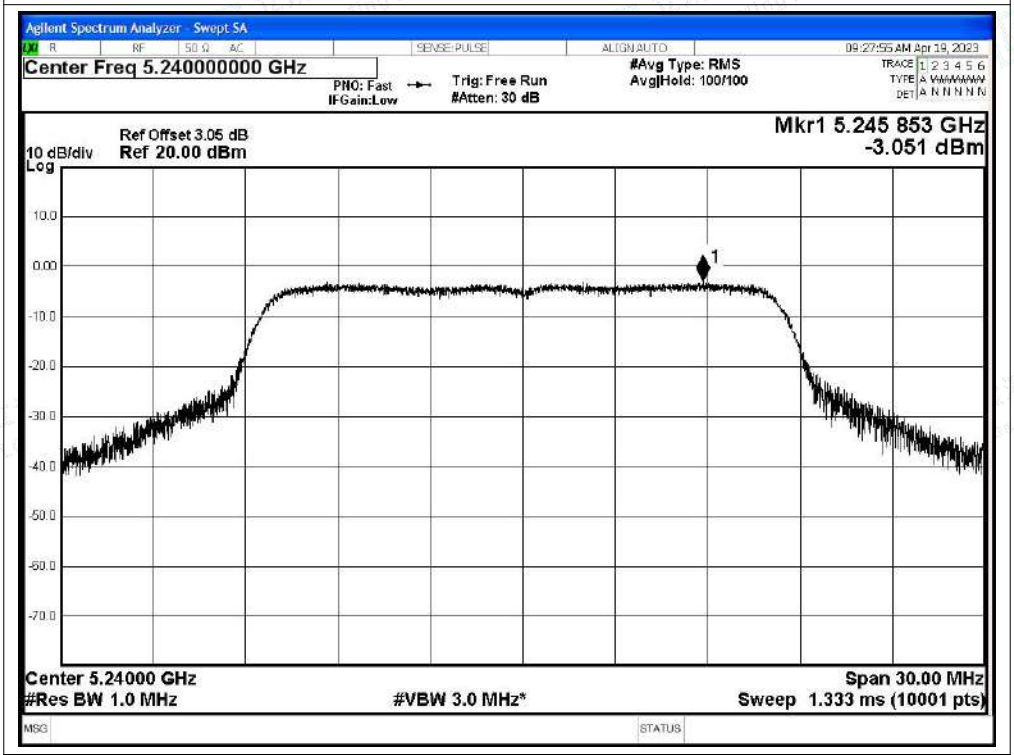
PSD NVNT a 5180MHz Ant1



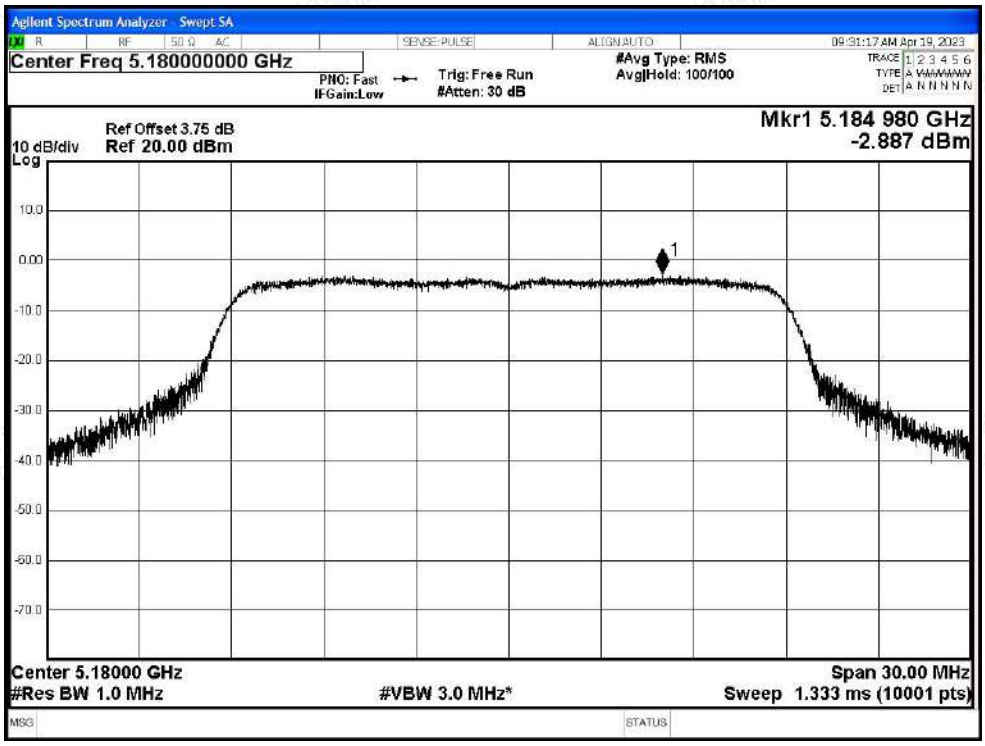
PSD NVNT a 5200MHz Ant1



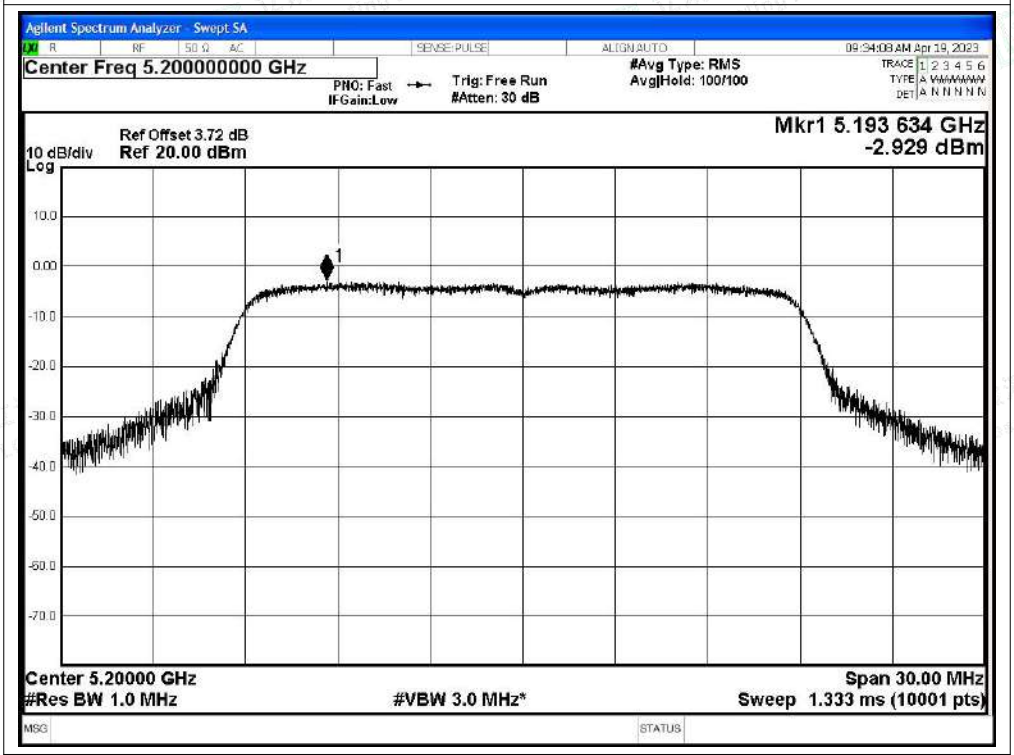
PSD NVNT a 5240MHz Ant1



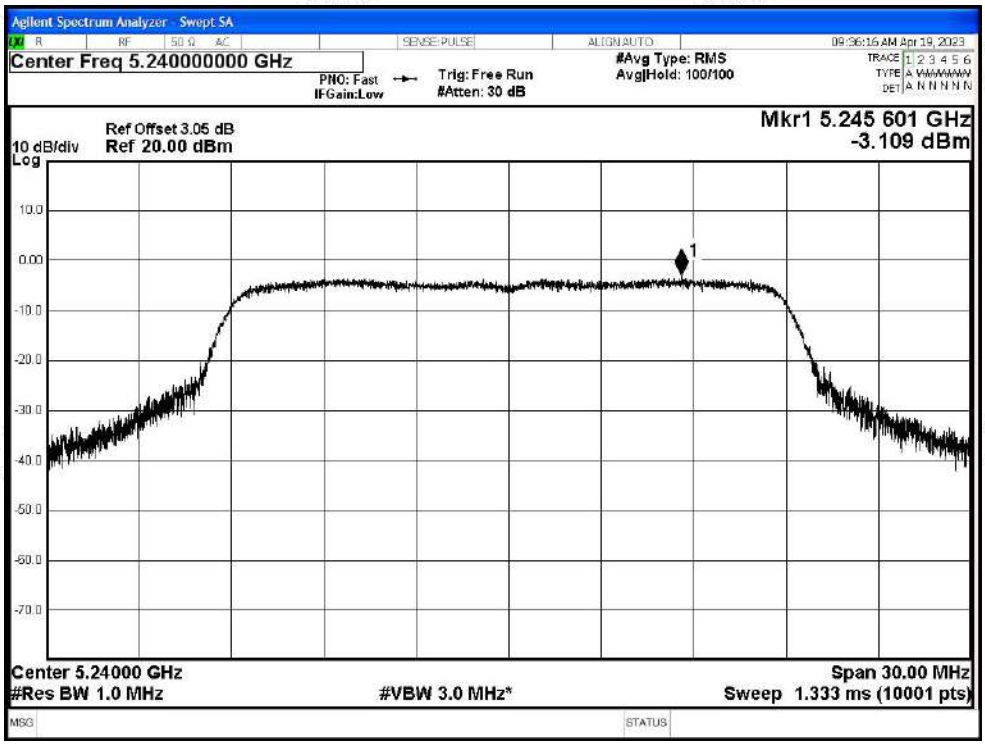
PSD NVNT n20 5180MHz Ant1



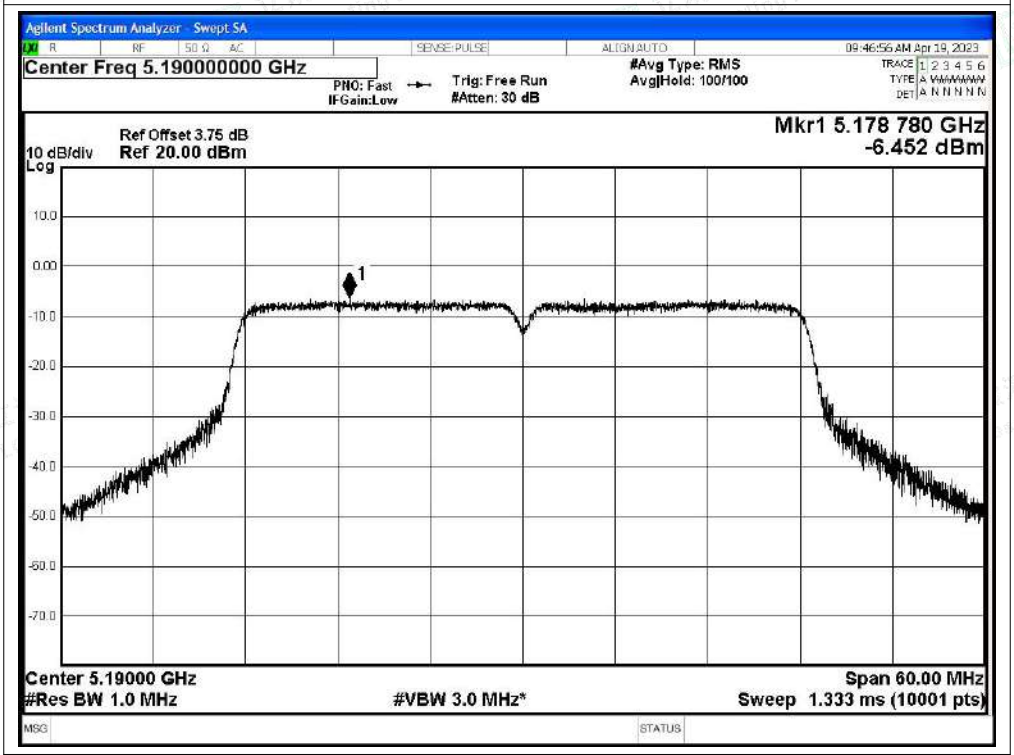
PSD NVNT n20 5200MHz Ant1



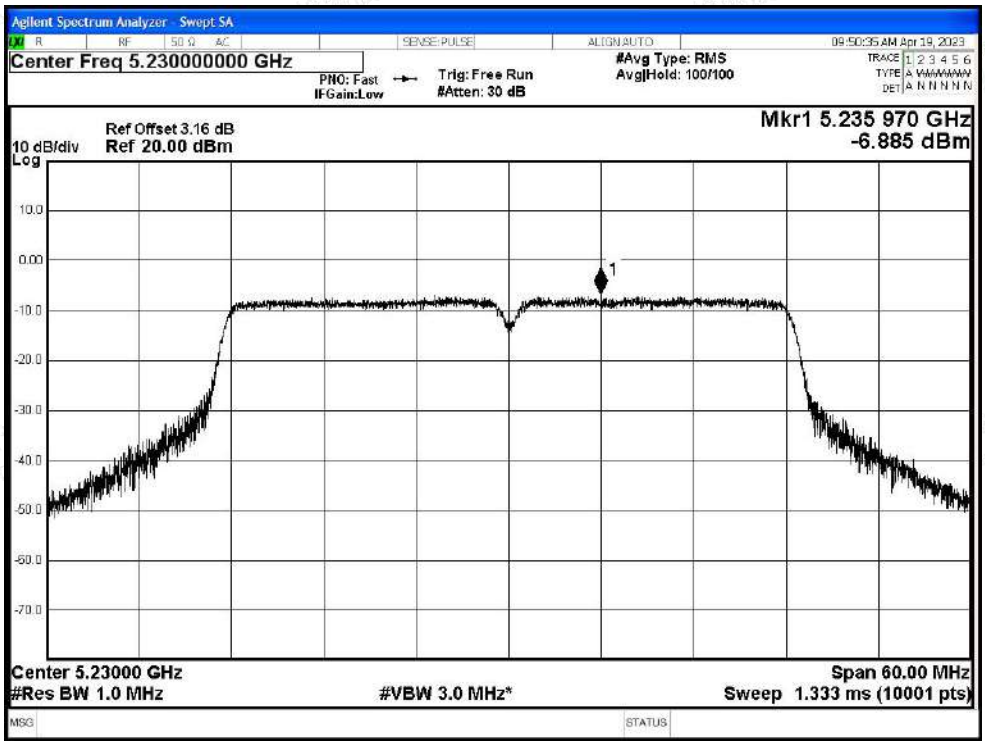
PSD NVNT n20 5240MHz Ant1



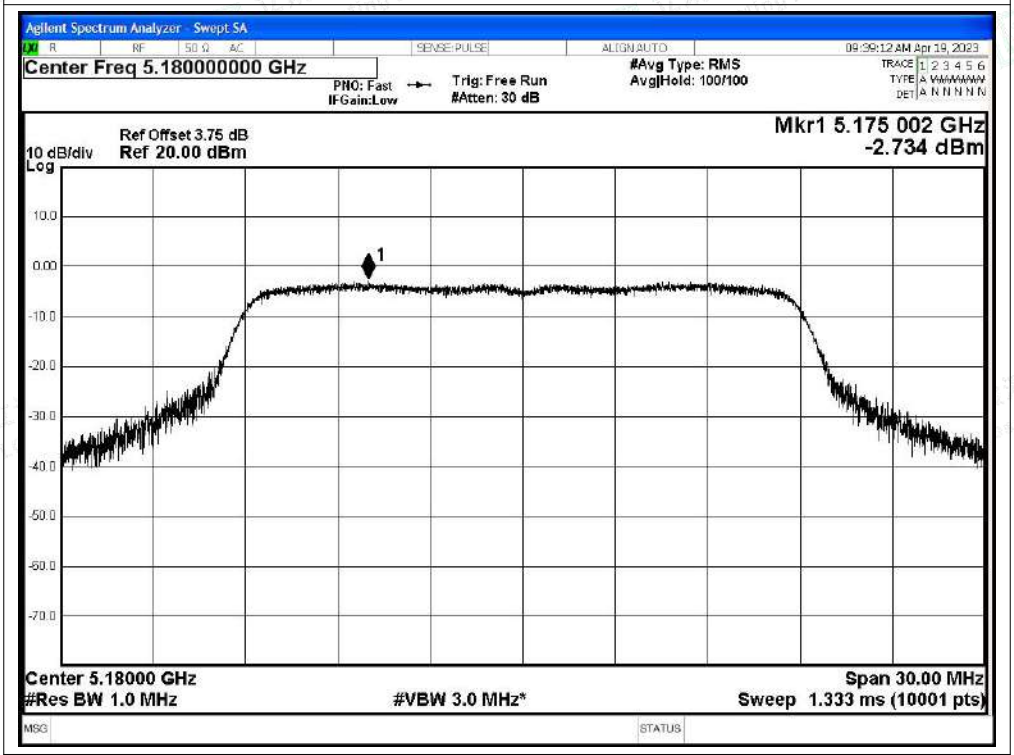
PSD NVNT n40 5190MHz Ant1



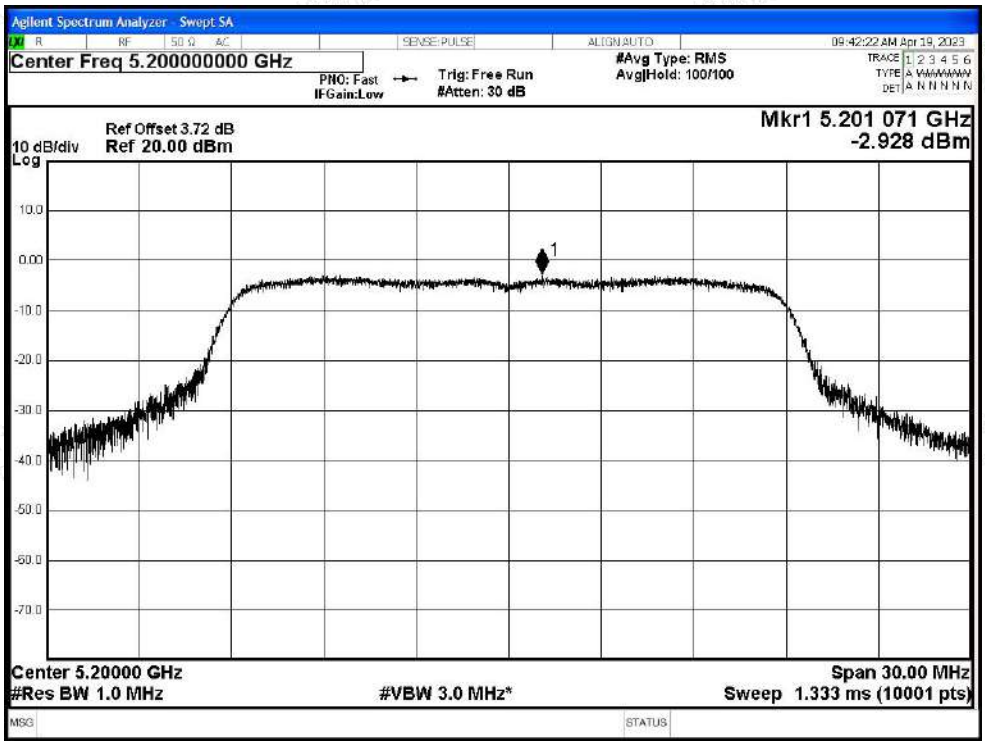
PSD NVNT n40 5230MHz Ant1



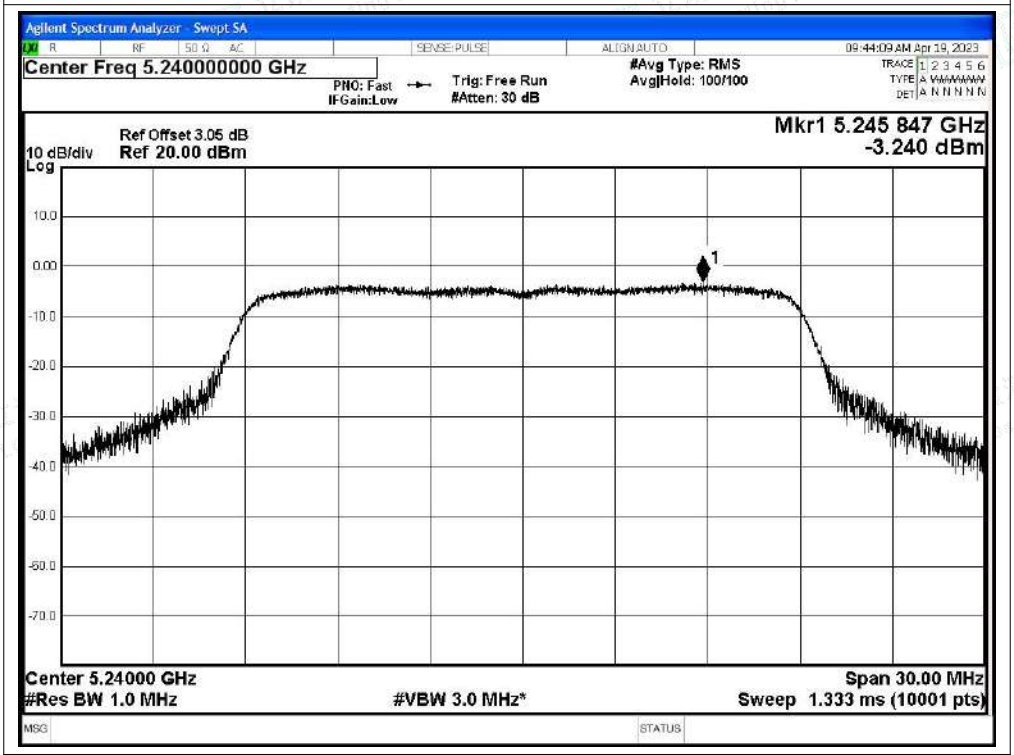
PSD NVNT ac20 5180MHz Ant1



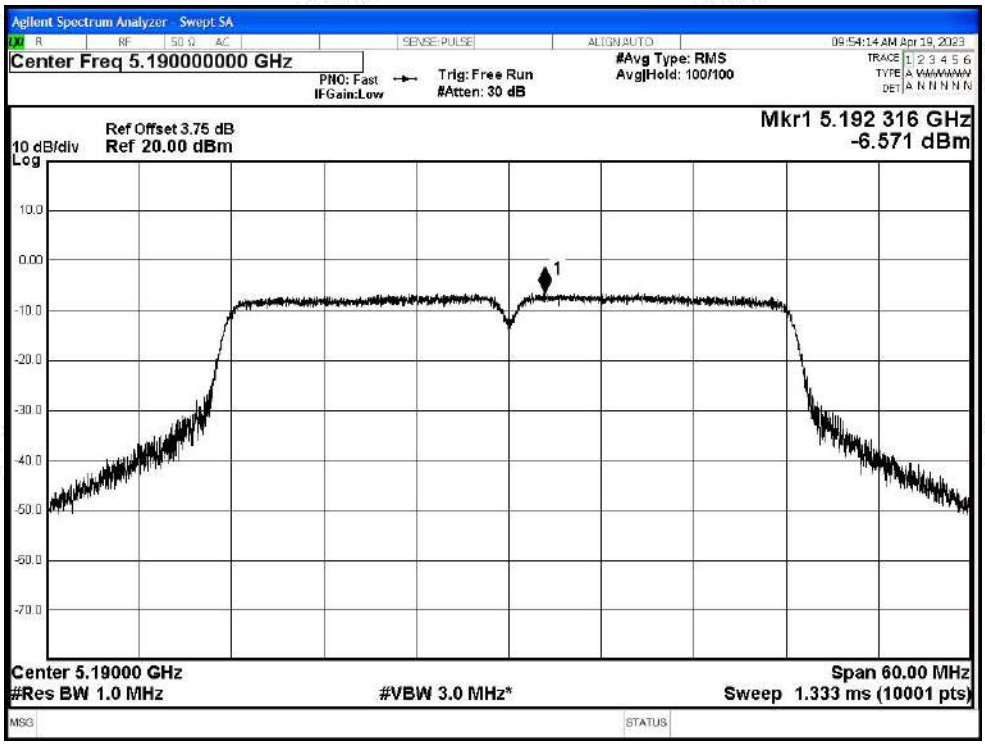
PSD NVNT ac20 5200MHz Ant1



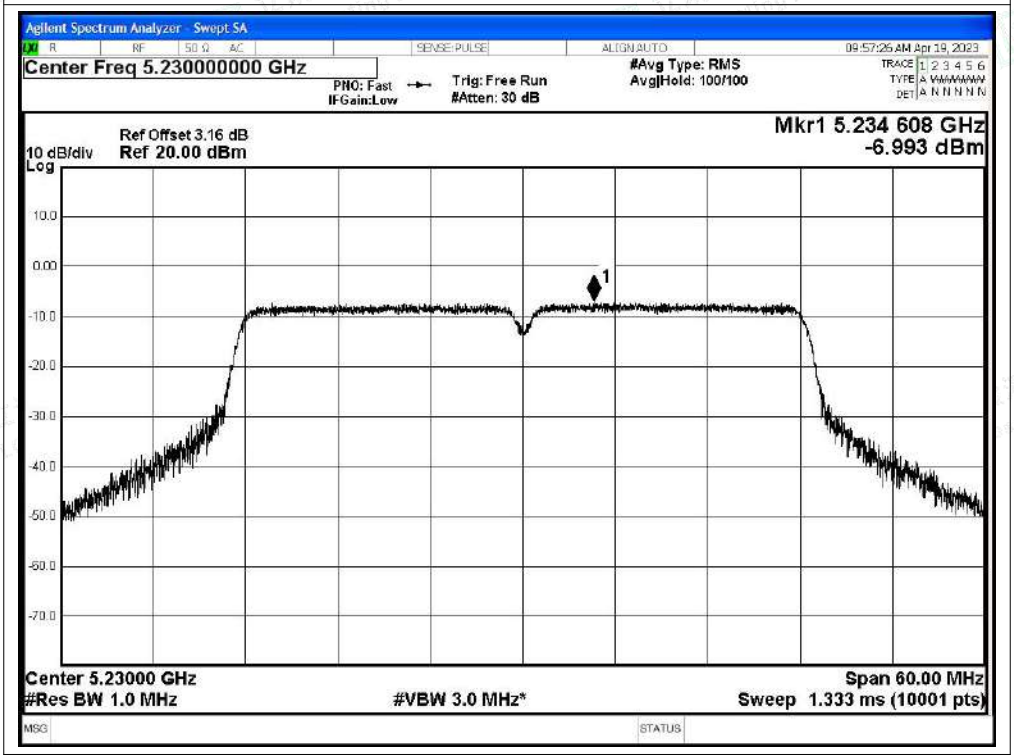
PSD NVNT ac20 5240MHz Ant1



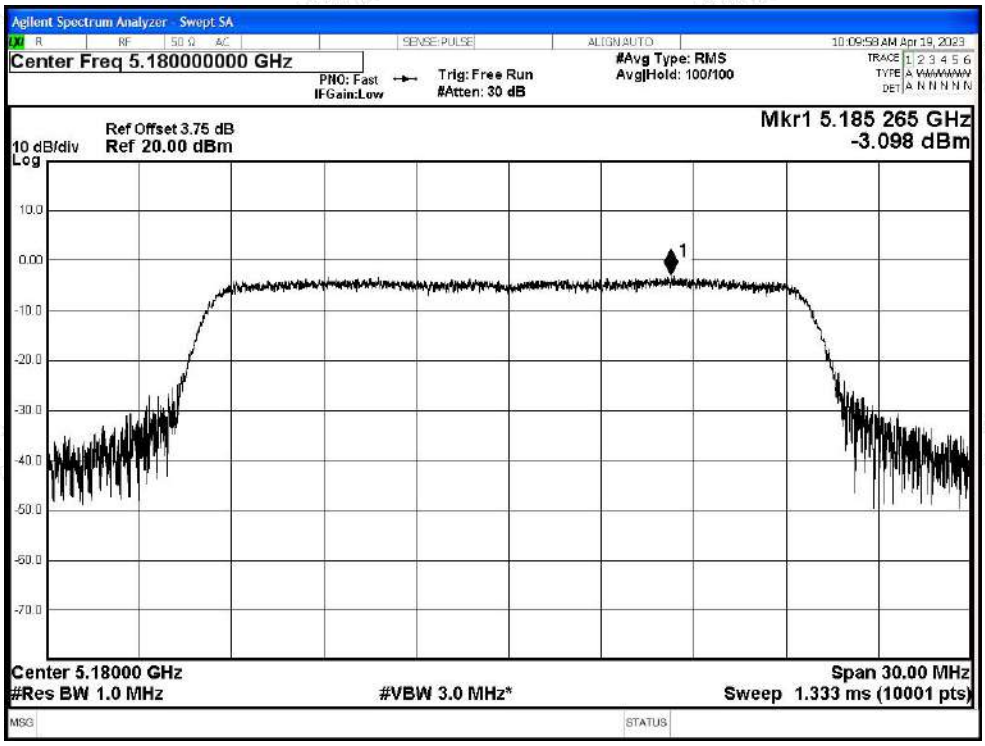
PSD NVNT ac40 5190MHz Ant1



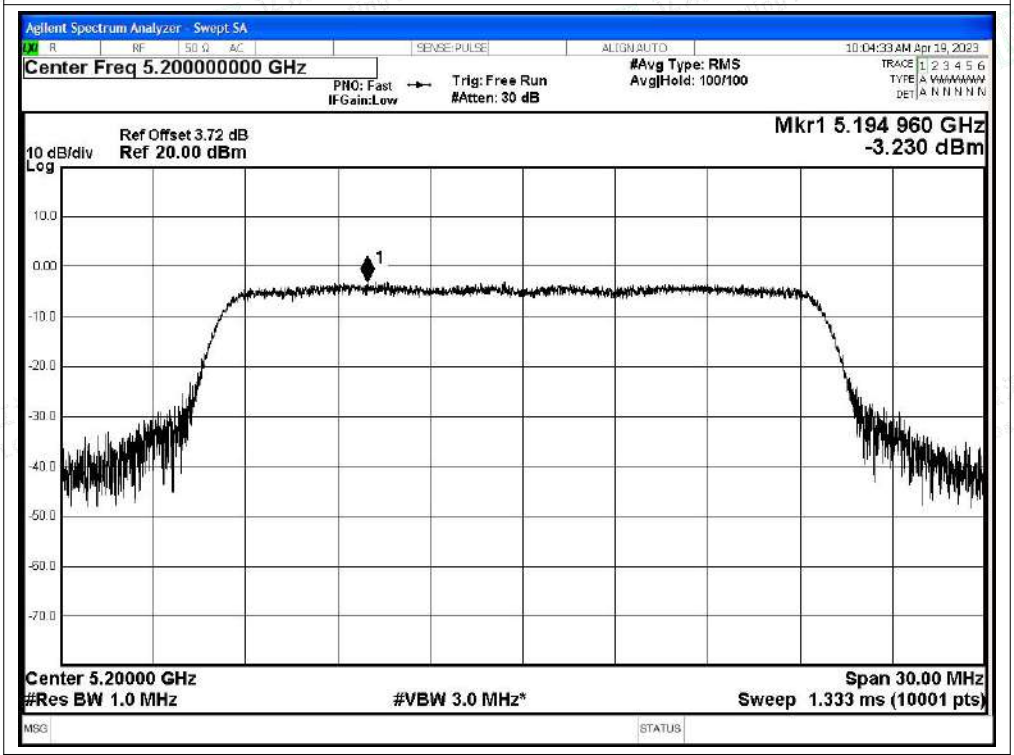
PSD NVNT ac40 5230MHz Ant1



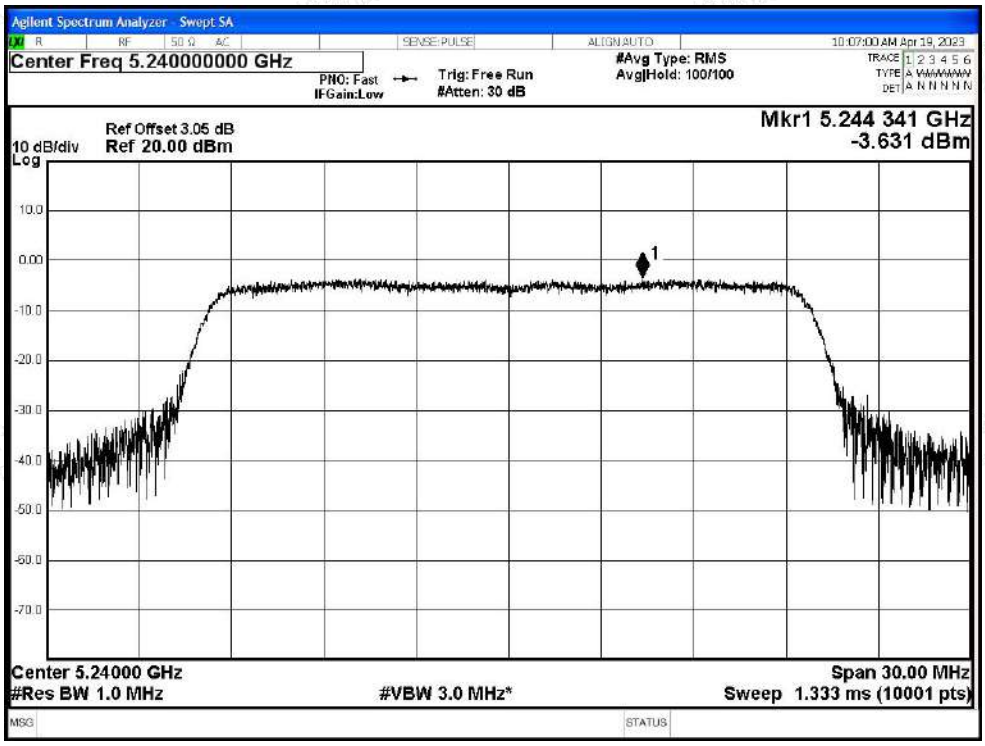
PSD NVNT ax20 5180MHz Ant1



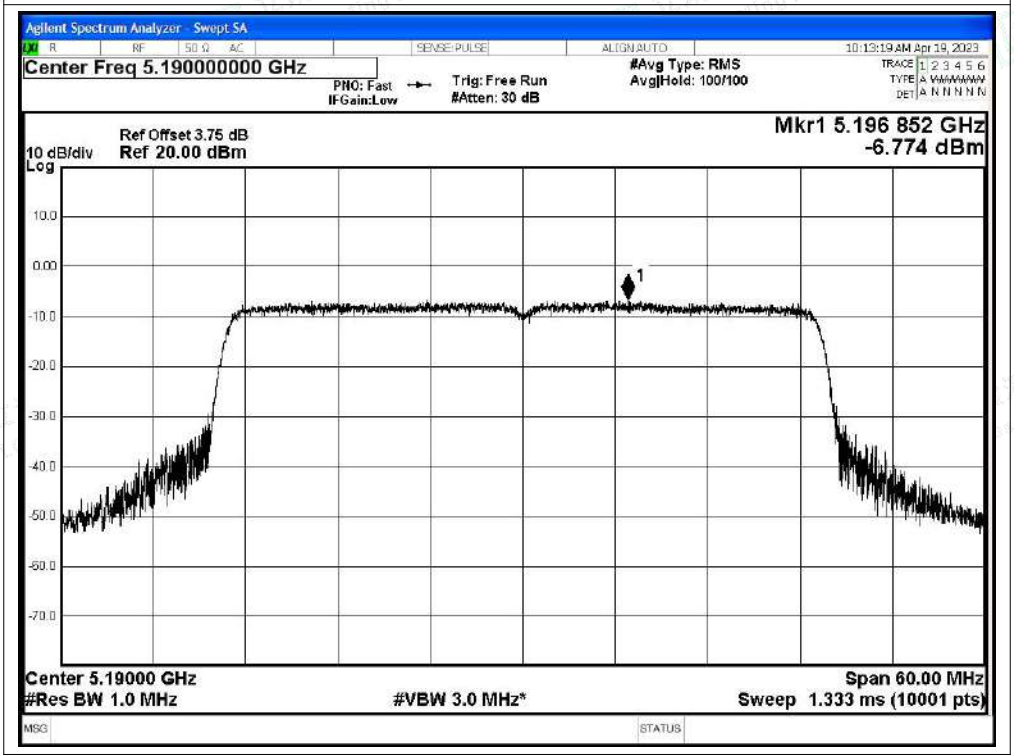
PSD NVNT ax20 5200MHz Ant1



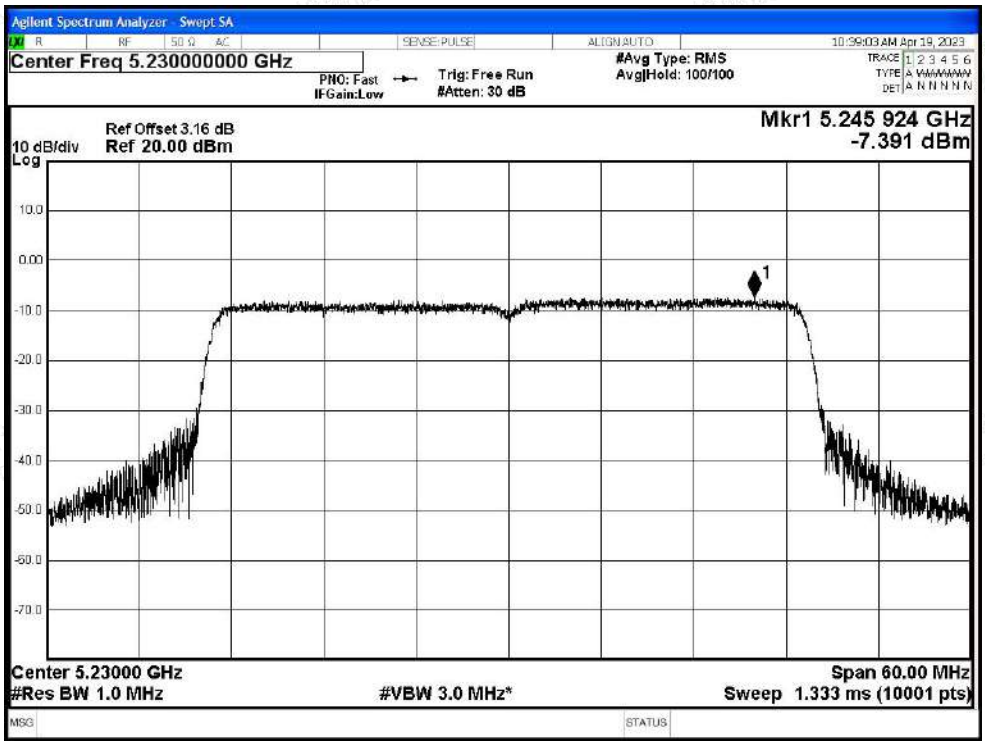
PSD NVNT ax20 5240MHz Ant1



PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1



D.4 Restrict Band

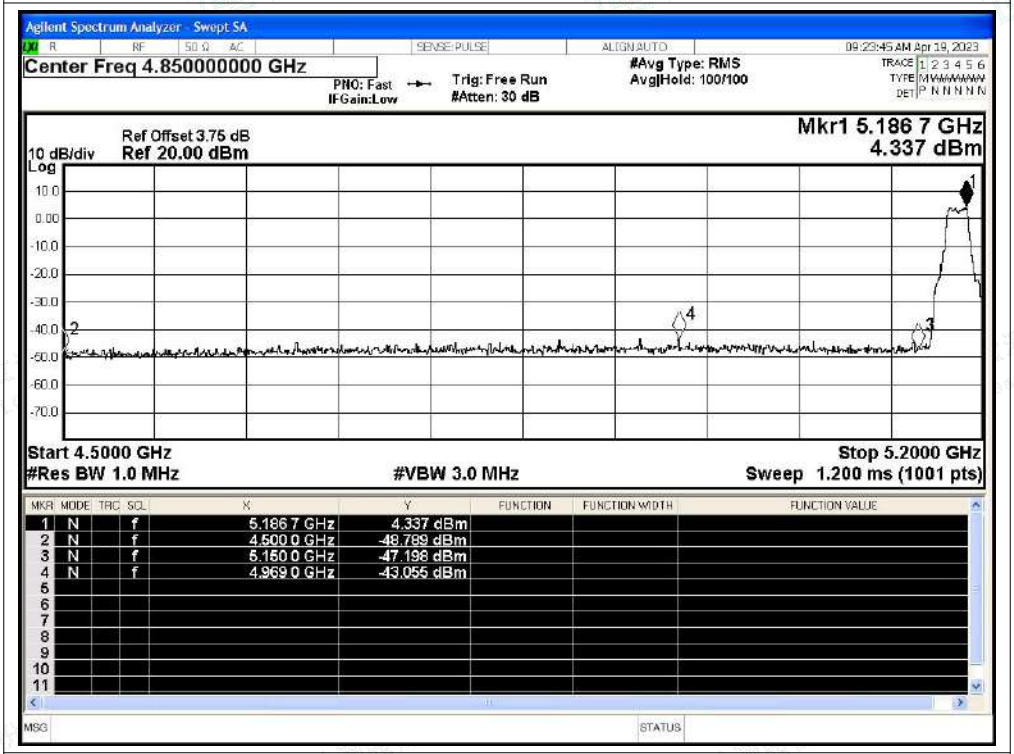
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-48.79	3.99	50.43	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-56.45	3.99	42.77	Average	54	Pass
NVNT	a	5180	Ant1	4969	-43.06	3.99	56.16	Peak	68.2	Pass
NVNT	a	5180	Ant1	5020.1	-53.24	3.99	45.98	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.2	3.99	52.02	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.23	3.99	44.99	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.09	3.99	51.13	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-53.69	3.99	45.53	Average	54	Pass
NVNT	a	5240	Ant1	5426.64	-42.72	3.99	56.50	Peak	68.2	Pass
NVNT	a	5240	Ant1	5400	-52.72	3.99	46.50	Average	54	Pass
NVNT	a	5240	Ant1	5460	-45.76	3.99	53.46	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-53.93	3.99	45.29	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.83	3.99	49.39	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-56.37	3.99	42.85	Average	54	Pass
NVNT	n20	5180	Ant1	4849.3	-44.62	3.99	54.60	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5020.1	-53.34	3.99	45.88	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.75	3.99	51.47	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-54.08	3.99	45.14	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-45.44	3.99	53.78	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-53.86	3.99	45.36	Average	54	Pass
NVNT	n20	5240	Ant1	5378.88	-43.8	3.99	55.42	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5400	-52.72	3.99	46.50	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-47.1	3.99	52.12	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-53.74	3.99	45.48	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.2	3.99	51.02	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-55.87	3.99	43.35	Average	54	Pass
NVNT	n40	5190	Ant1	4982.53	-43.74	3.99	55.48	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5077.43	-52.19	3.99	47.03	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-46.74	3.99	52.48	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-53.1	3.99	46.12	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-45.9	3.99	53.32	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-52.98	3.99	46.24	Average	54	Pass
NVNT	n40	5230	Ant1	5402.76	-43.61	3.99	55.61	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5378.19	-52.7	3.99	46.52	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-47.47	3.99	51.75	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-53.12	3.99	46.10	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.81	3.99	49.41	Peak	68.2	Pass

NVNT	ac20	5180	Ant1	4500	-56.6	3.99	42.62	Average	54	Pass
NVNT	ac20	5180	Ant1	4907.4	-42.84	3.99	56.38	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4972.5	-53.39	3.99	45.83	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-48.1	3.99	51.12	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.18	3.99	45.04	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-47.05	3.99	52.17	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-53.8	3.99	45.42	Average	54	Pass
NVNT	ac20	5240	Ant1	5392.56	-44.25	3.99	54.97	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5400	-52.94	3.99	46.28	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-47.67	3.99	51.55	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-53.89	3.99	45.33	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.26	3.99	49.96	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-55.93	3.99	43.29	Average	54	Pass
NVNT	ac40	5190	Ant1	4709.51	-43.26	3.99	55.96	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5078.16	-52.31	3.99	46.91	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-46.12	3.99	53.10	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-52.84	3.99	46.38	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-46.3	3.99	52.92	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-52.82	3.99	46.40	Average	54	Pass
NVNT	ac40	5230	Ant1	5409.51	-43.56	3.99	55.66	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5377.38	-52.72	3.99	46.50	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-47.46	3.99	51.76	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-53.35	3.99	45.87	Average	54	Pass
NVNT	ax20	5180	Ant1	4500	-48.71	3.99	50.51	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	4500	-56.45	3.99	42.77	Average	54	Pass
NVNT	ax20	5180	Ant1	4894.8	-44.07	3.99	55.15	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5020.1	-53.28	3.99	45.94	Average	54	Pass
NVNT	ax20	5180	Ant1	5150	-48.13	3.99	51.09	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5150	-54.04	3.99	45.18	Average	54	Pass
NVNT	ax20	5240	Ant1	5350	-45.53	3.99	53.69	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5350	-53.84	3.99	45.38	Average	54	Pass
NVNT	ax20	5240	Ant1	5425.44	-43.96	3.99	55.26	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5400.24	-52.65	3.99	46.57	Average	54	Pass
NVNT	ax20	5240	Ant1	5460	-47.17	3.99	52.05	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5460	-53.83	3.99	45.39	Average	54	Pass
NVNT	ax40	5190	Ant1	4500	-50.62	3.99	48.60	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	4500	-55.93	3.99	43.29	Average	54	Pass
NVNT	ax40	5190	Ant1	4897.12	-43.34	3.99	55.88	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5078.89	-51.57	3.99	47.65	Average	54	Pass
NVNT	ax40	5190	Ant1	5150	-47.24	3.99	51.98	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5150	-52.87	3.99	46.35	Average	54	Pass

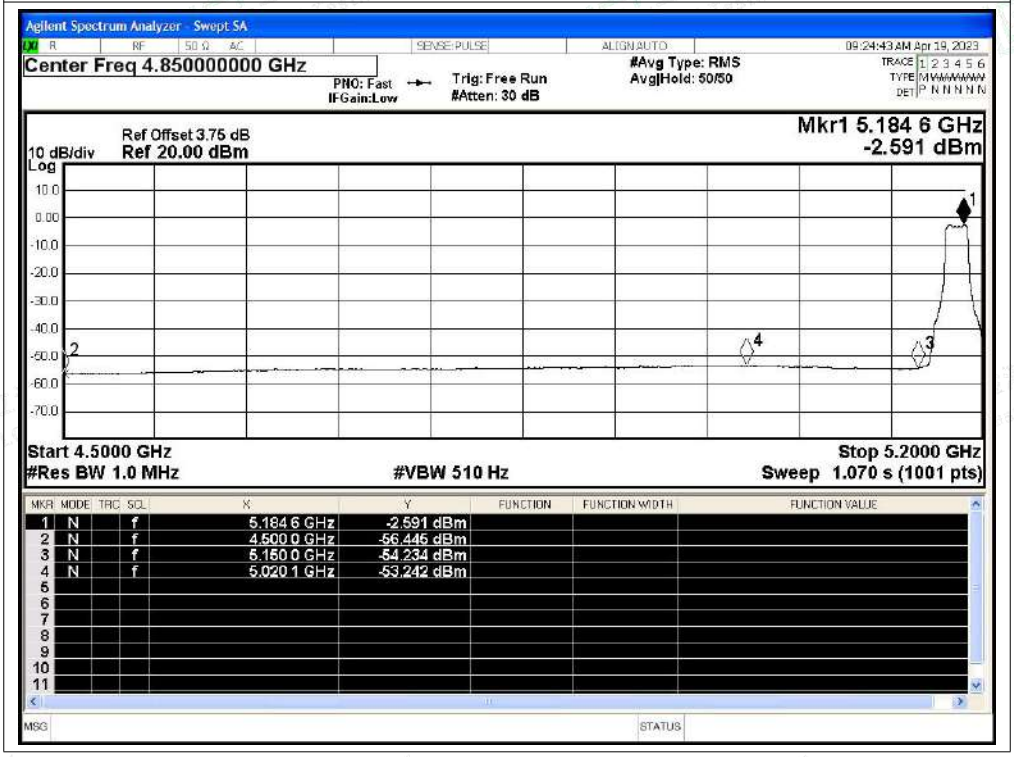
NVNT	ax40	5230	Ant1	5350	-46.79	3.99	52.43	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5350	-52.58	3.99	46.64	Average	54	Pass
NVNT	ax40	5230	Ant1	5385.21	-43.6	3.99	55.62	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5378.46	-52.48	3.99	46.74	Average	54	Pass
NVNT	ax40	5230	Ant1	5460	-47.14	3.99	52.08	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5460	-53.41	3.99	45.81	Average	54	Pass

Test Graphs

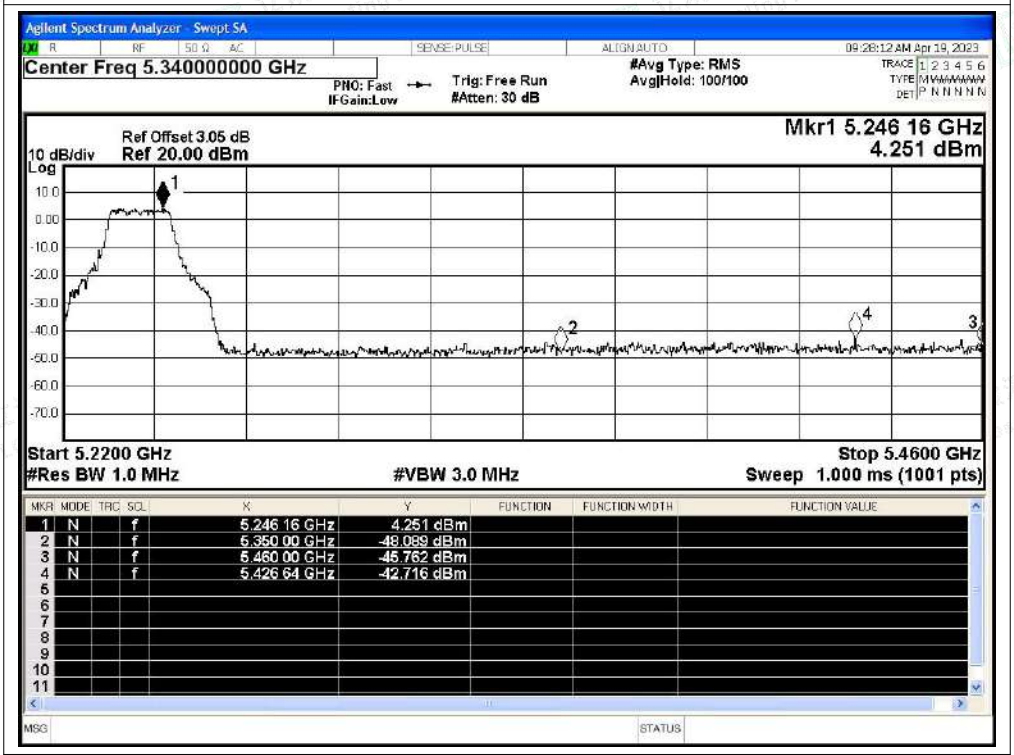
Restrict Band NVNT a 5180MHz Ant1 Peak



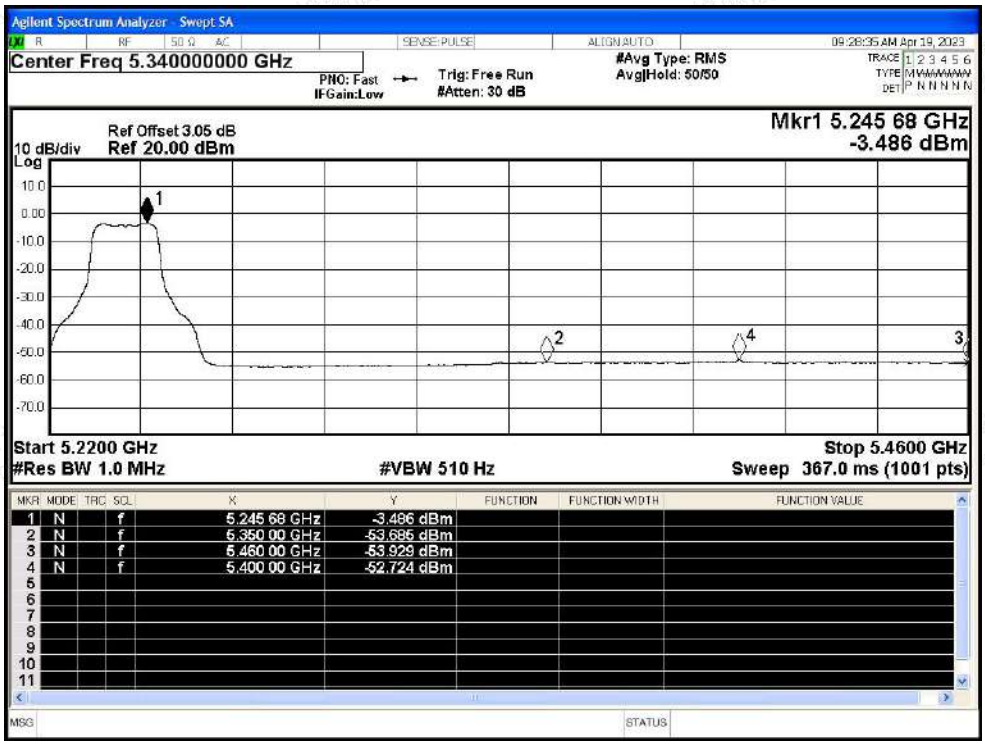
Restrict Band NVNT a 5180MHz Ant1 Average



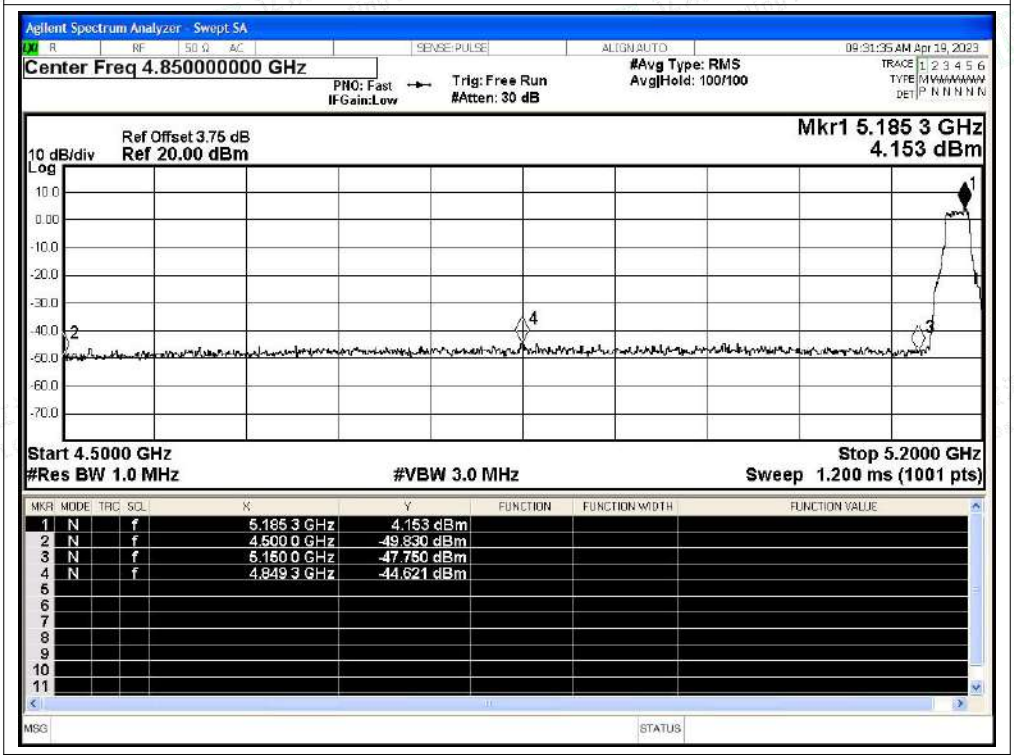
Restrict Band NVNT a 5240MHz Ant1 Peak



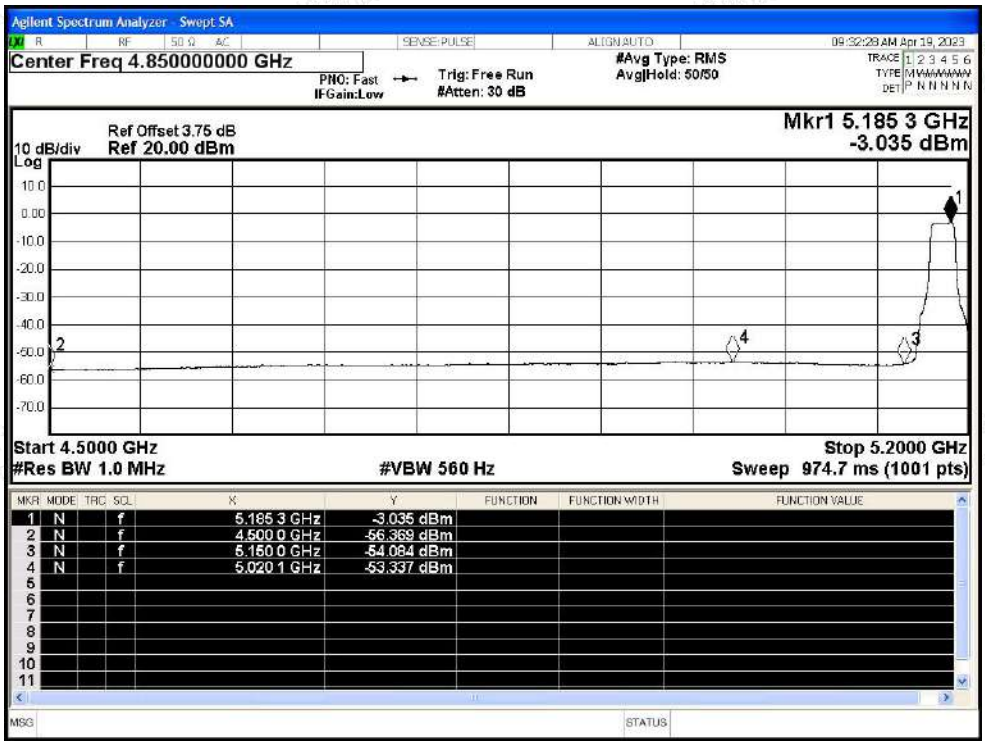
Restrict Band NVNT a 5240MHz Ant1 Average



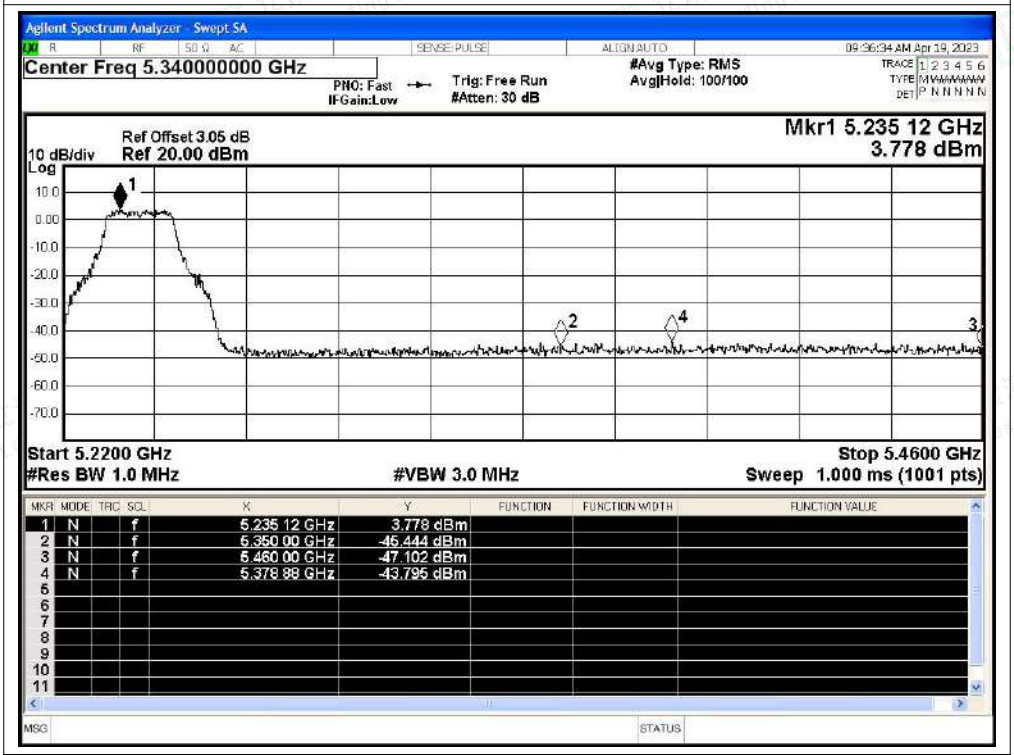
Restrict Band NVNT n20 5180MHz Ant1 Peak



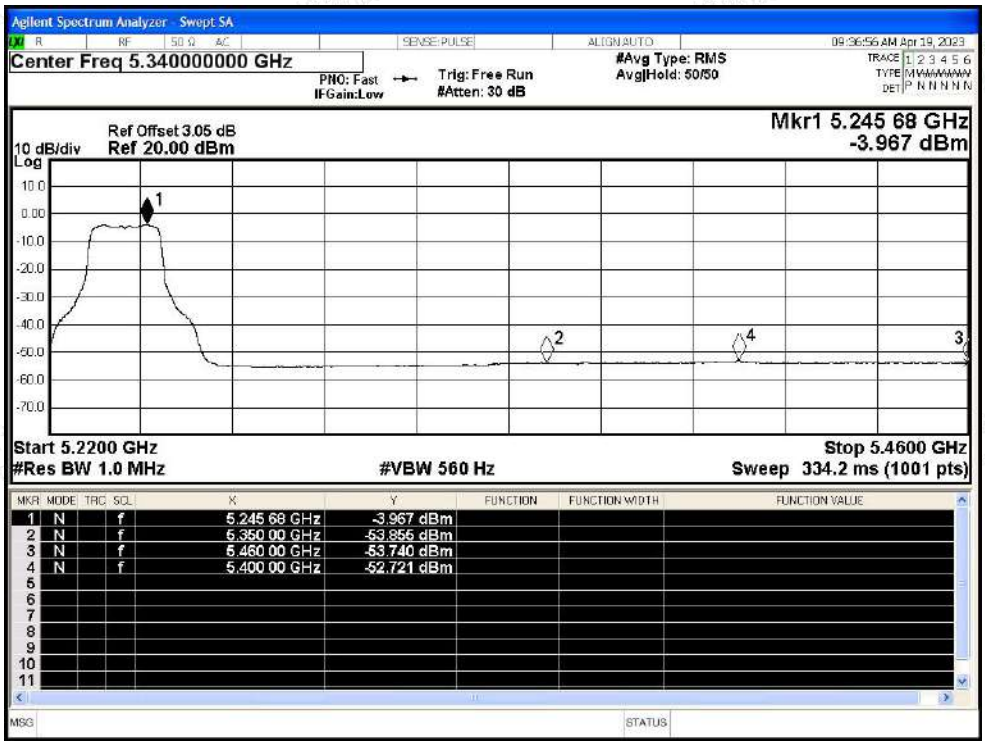
Restrict Band NVNT n20 5180MHz Ant1 Average



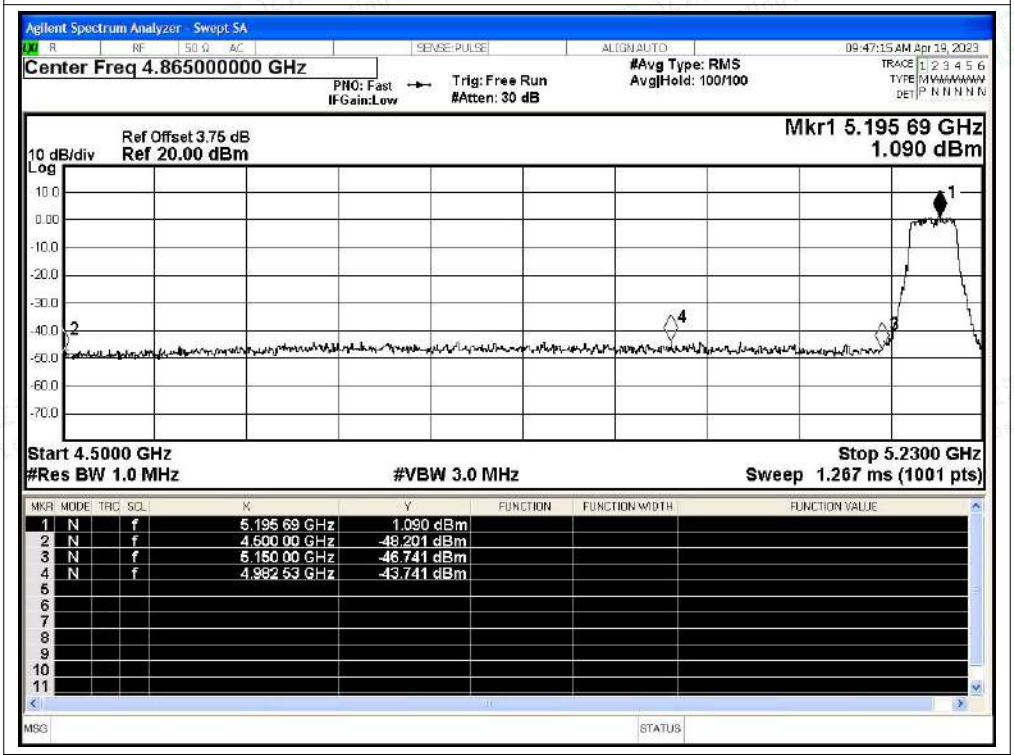
Restrict Band NVNT n20 5240MHz Ant1 Peak



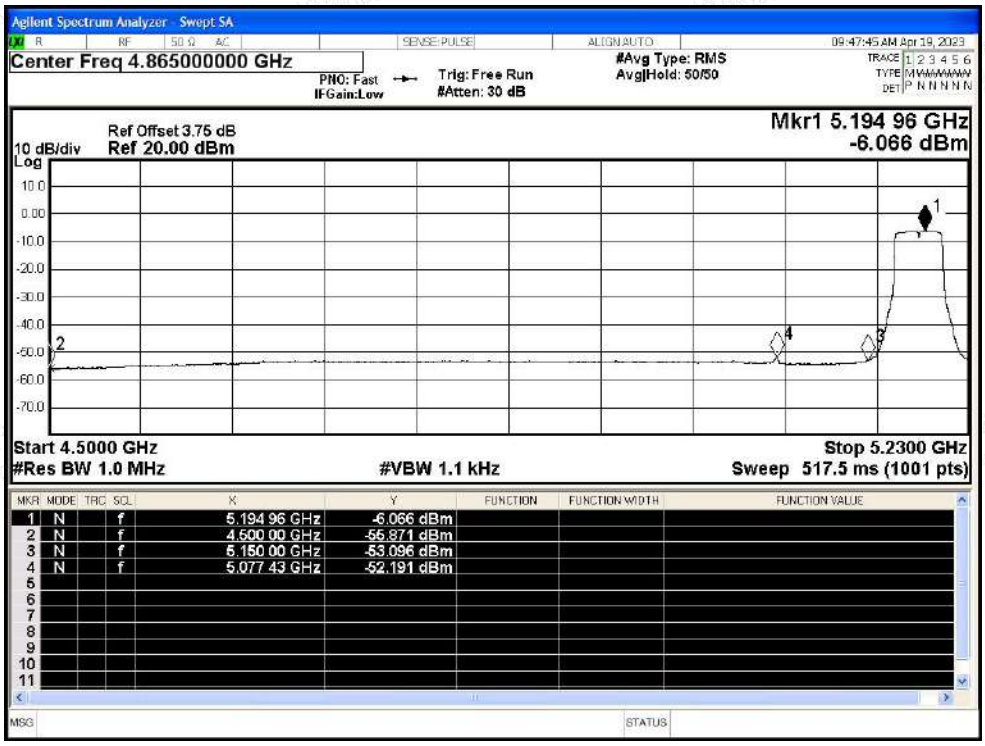
Restrict Band NVNT n20 5240MHz Ant1 Average



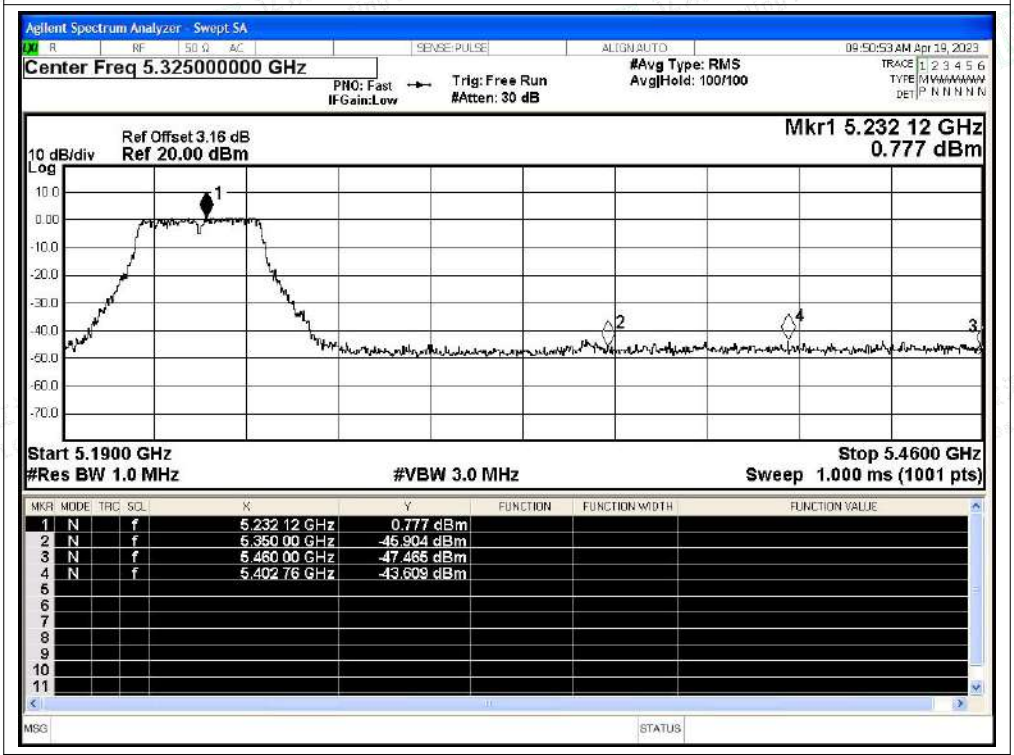
Restrict Band NVNT n40 5190MHz Ant1 Peak



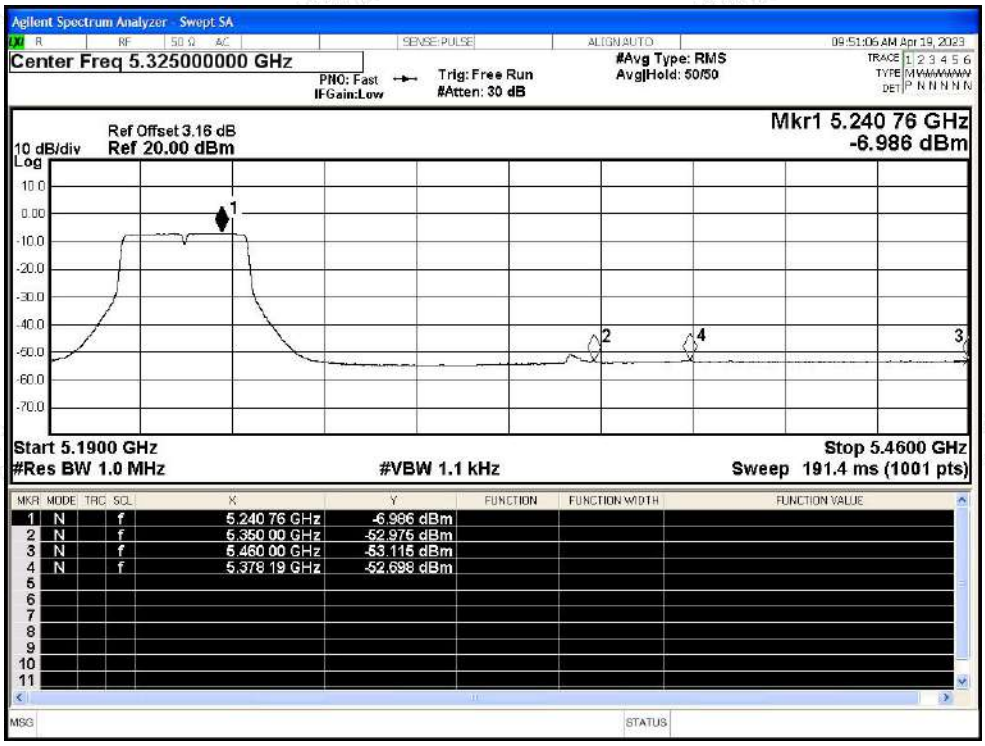
Restrict Band NVNT n40 5190MHz Ant1 Average



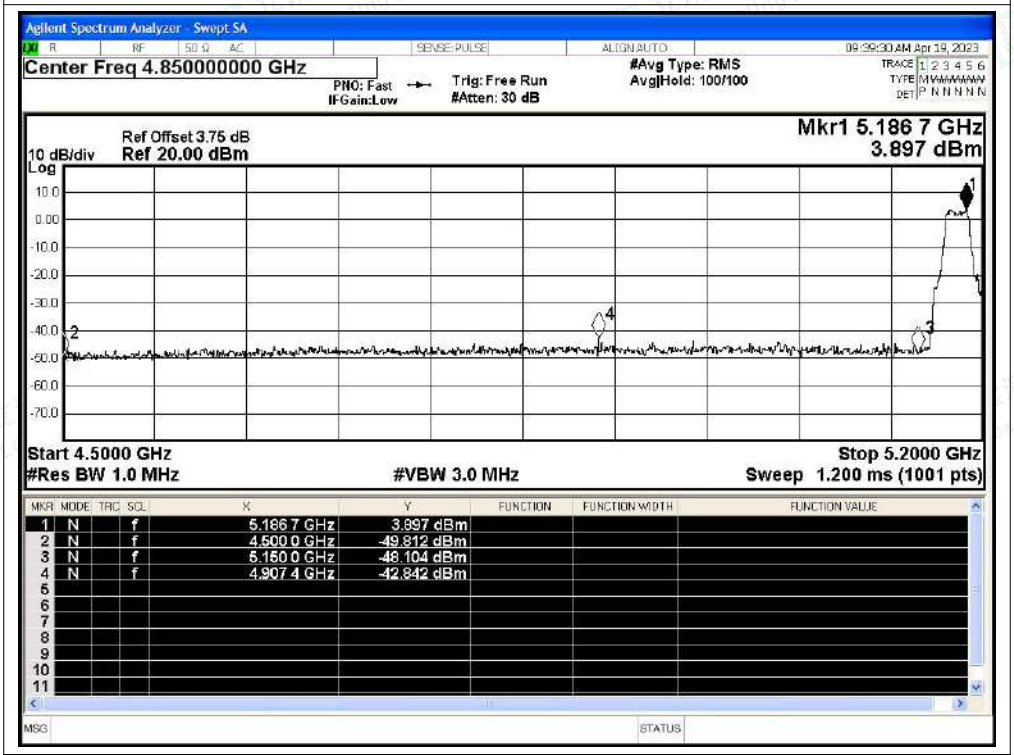
Restrict Band NVNT n40 5230MHz Ant1 Peak



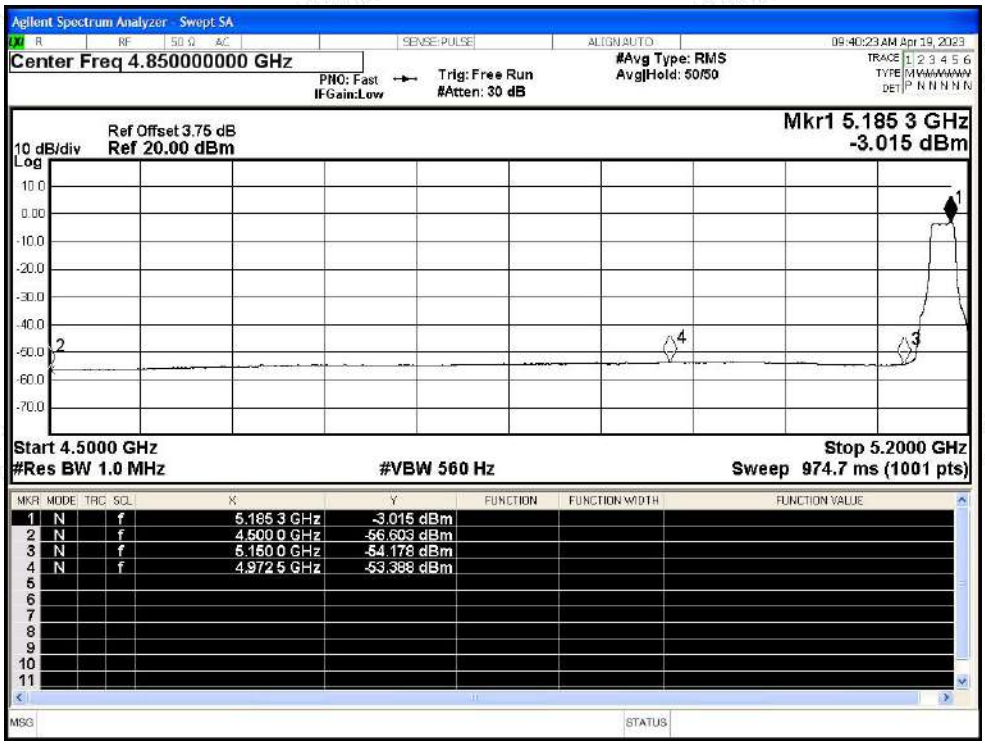
Restrict Band NVNT n40 5230MHz Ant1 Average



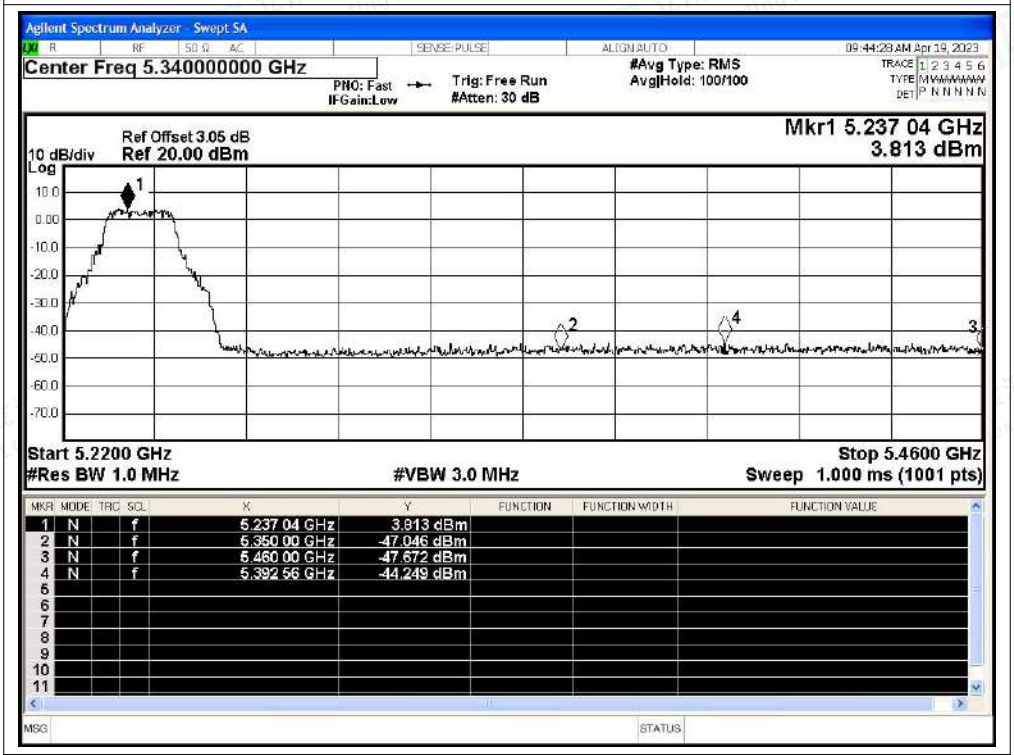
Restrict Band NVNT ac20 5180MHz Ant1 Peak



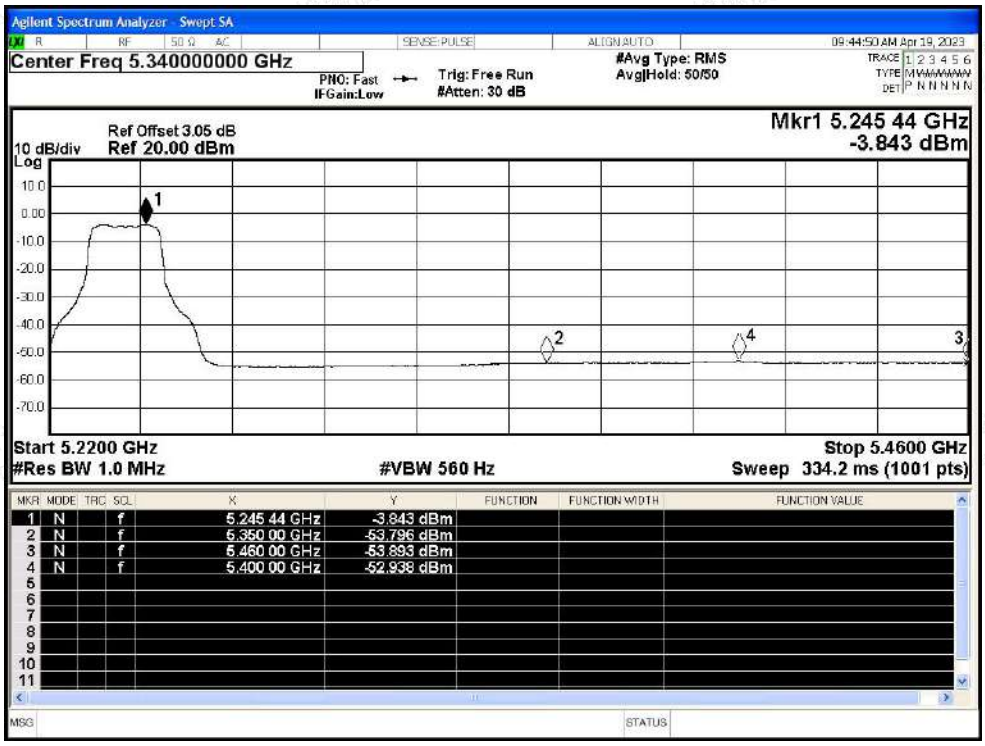
Restrict Band NVNT ac20 5180MHz Ant1 Average



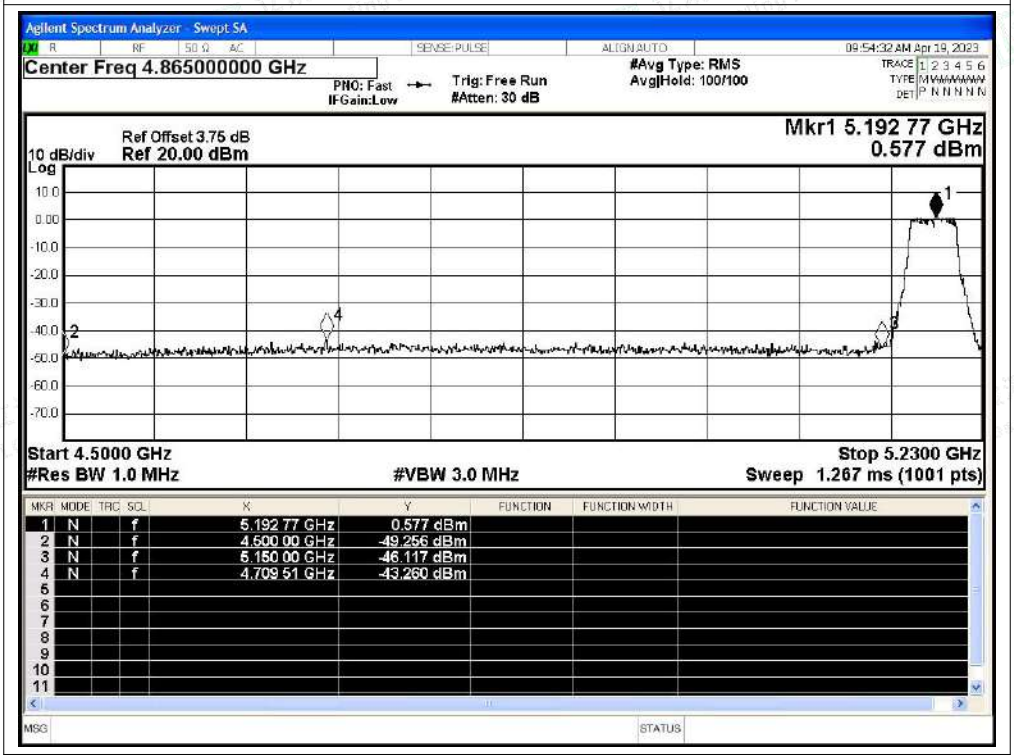
Restrict Band NVNT ac20 5240MHz Ant1 Peak



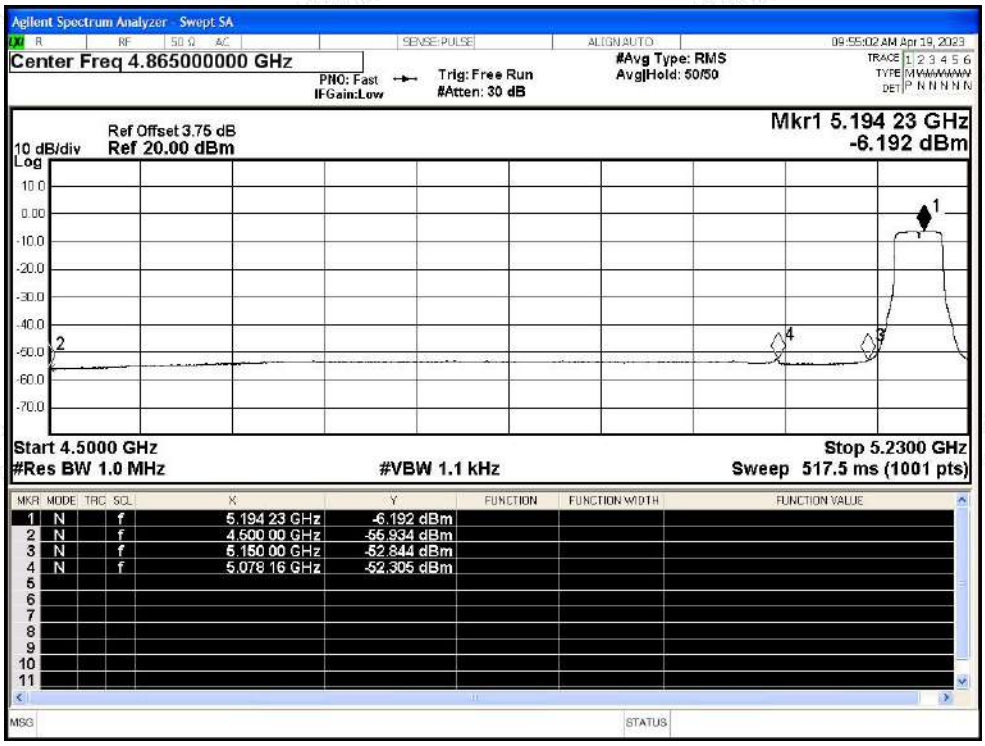
Restrict Band NVNT ac20 5240MHz Ant1 Average



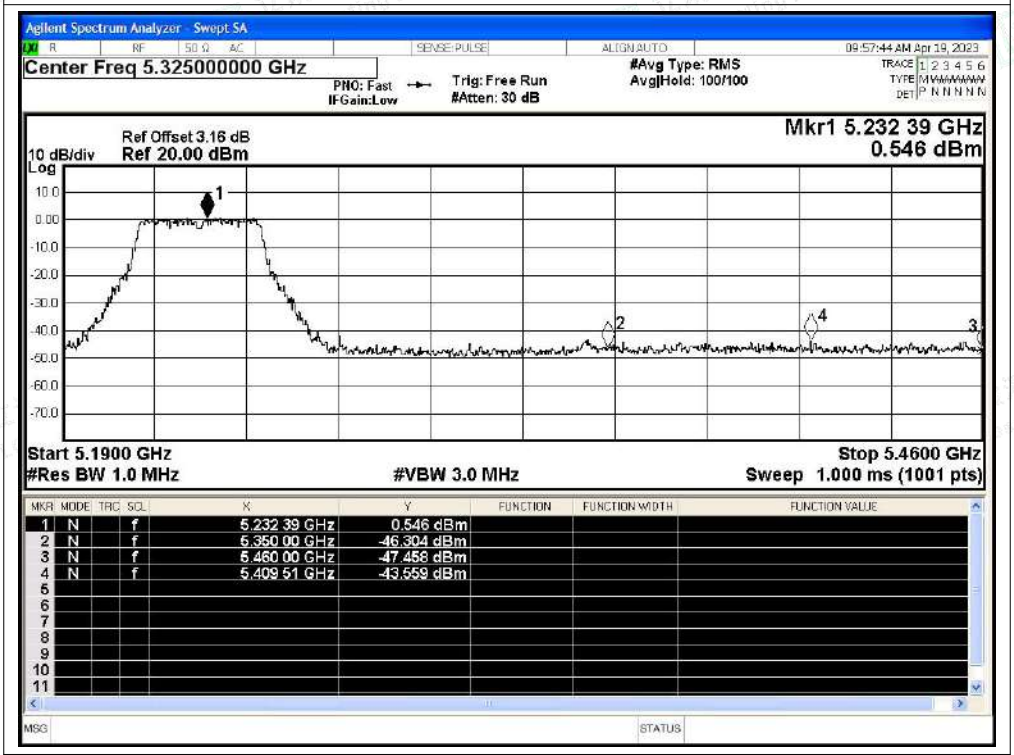
Restrict Band NVNT ac40 5190MHz Ant1 Peak



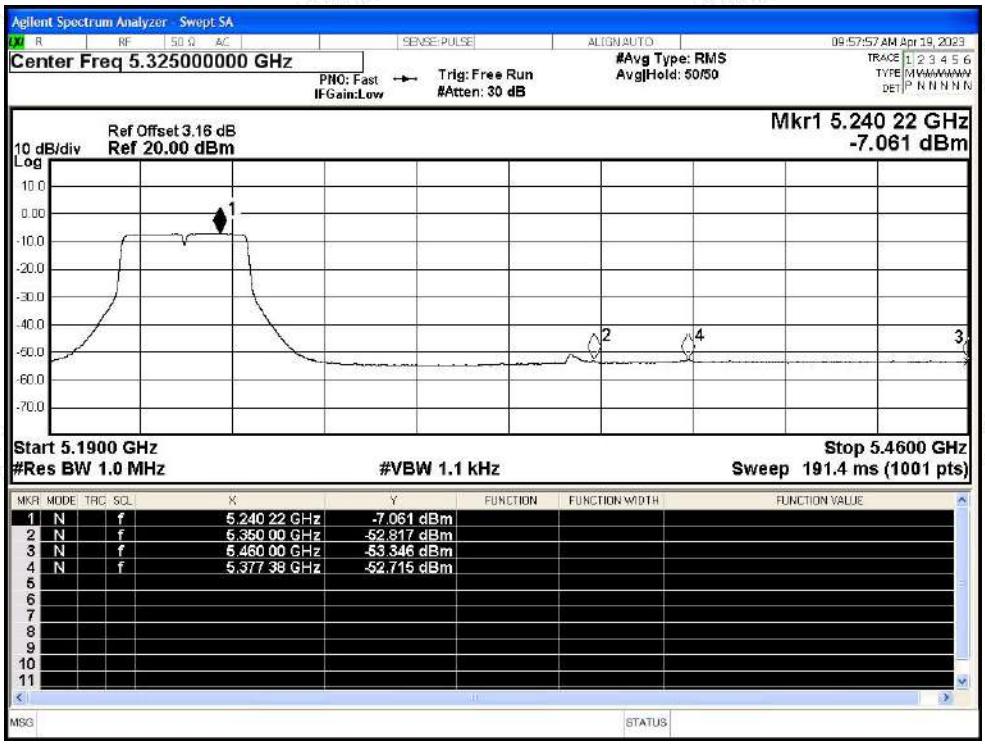
Restrict Band NVNT ac40 5190MHz Ant1 Average



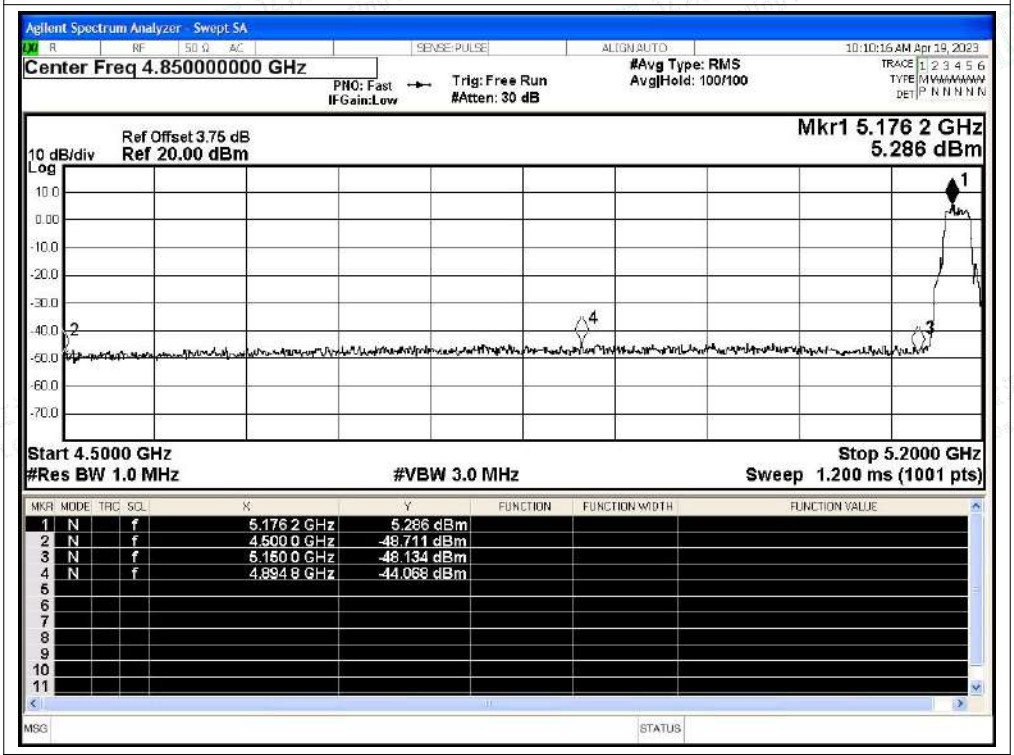
Restrict Band NVNT ac40 5230MHz Ant1 Peak



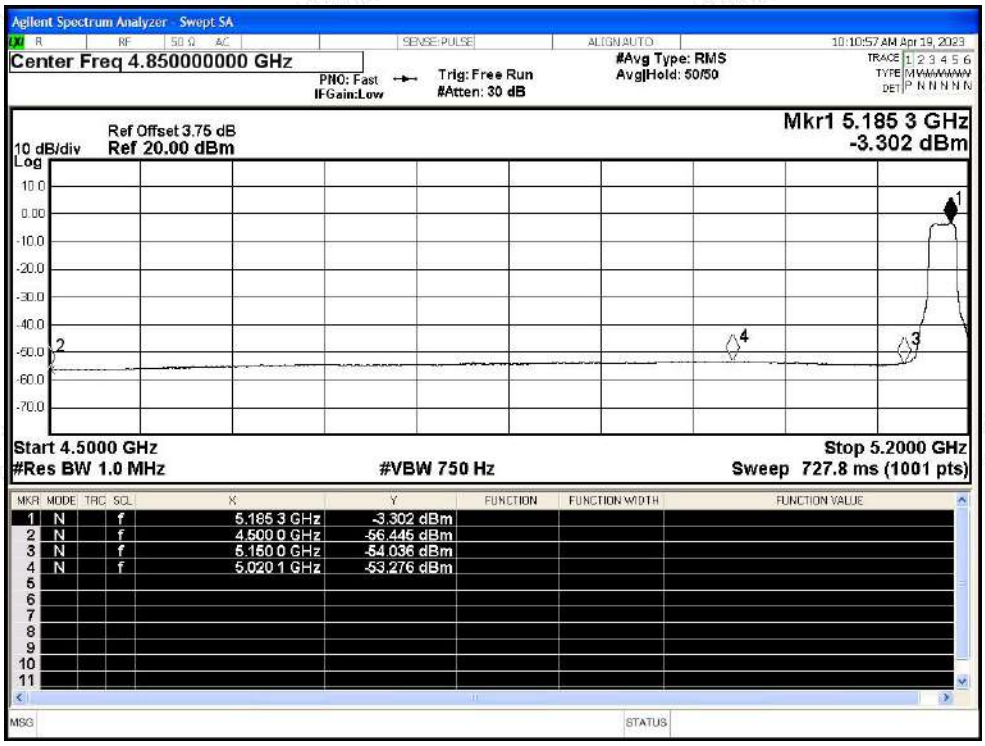
Restrict Band NVNT ac40 5230MHz Ant1 Average



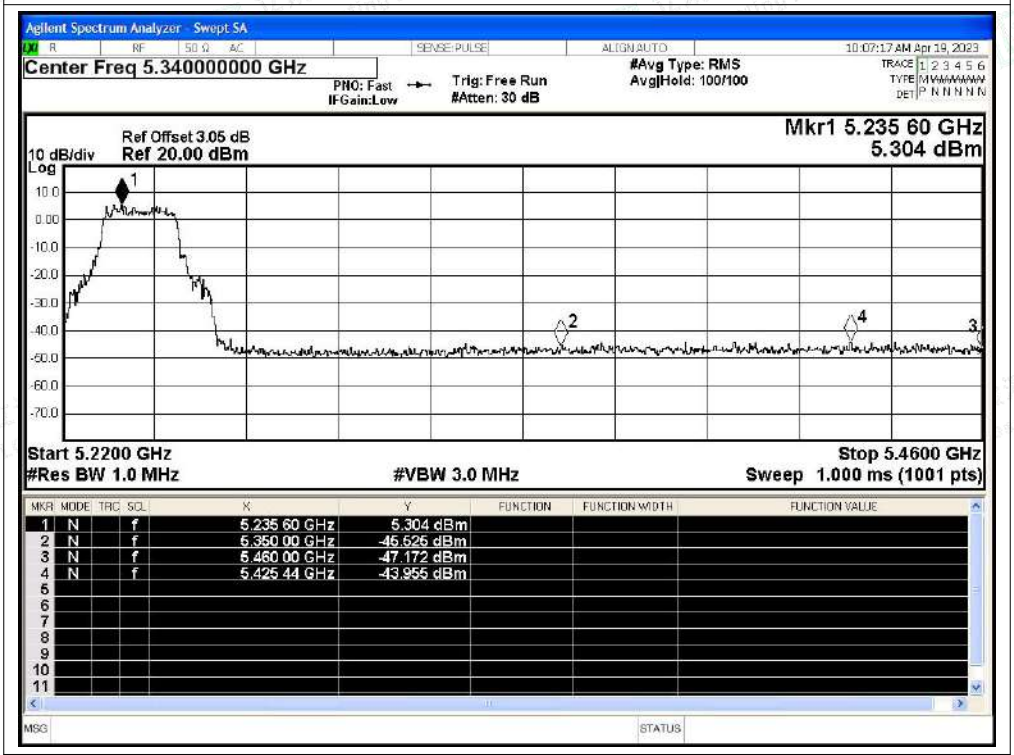
Restrict Band NVNT ax20 5180MHz Ant1 Peak



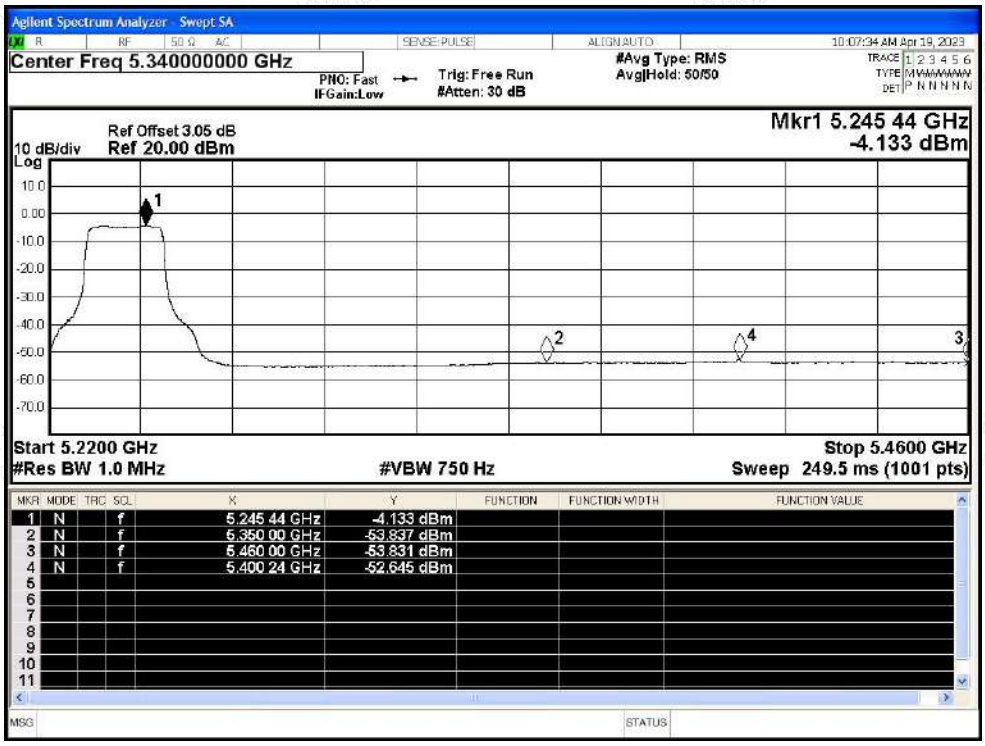
Restrict Band NVNT ax20 5180MHz Ant1 Average



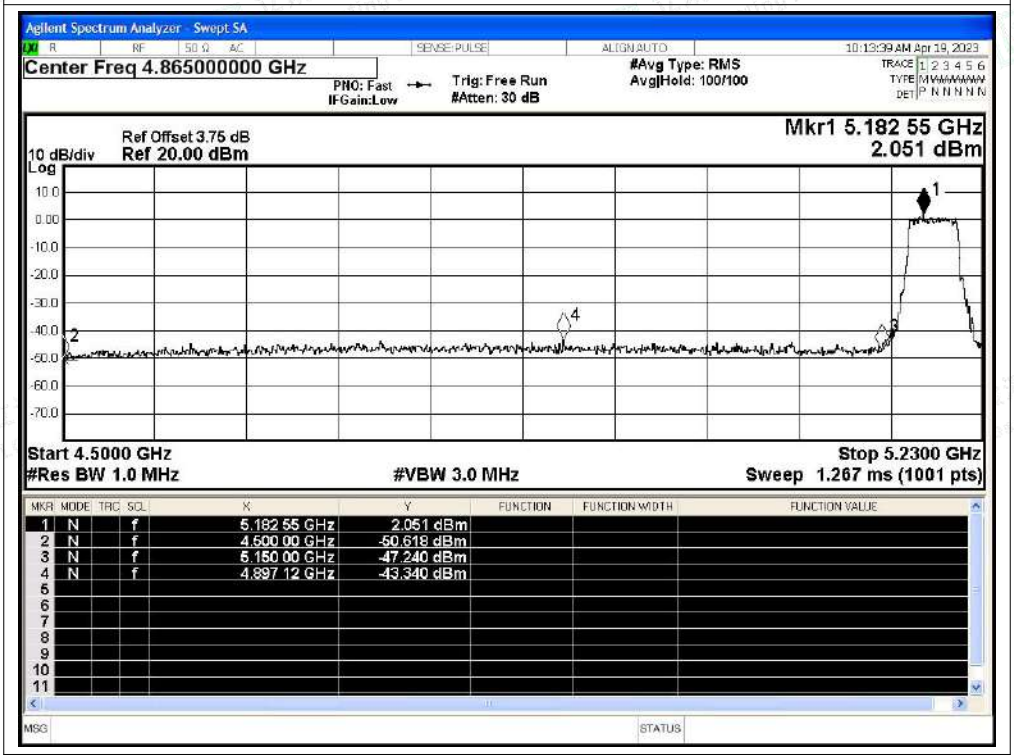
Restrict Band NVNT ax20 5240MHz Ant1 Peak



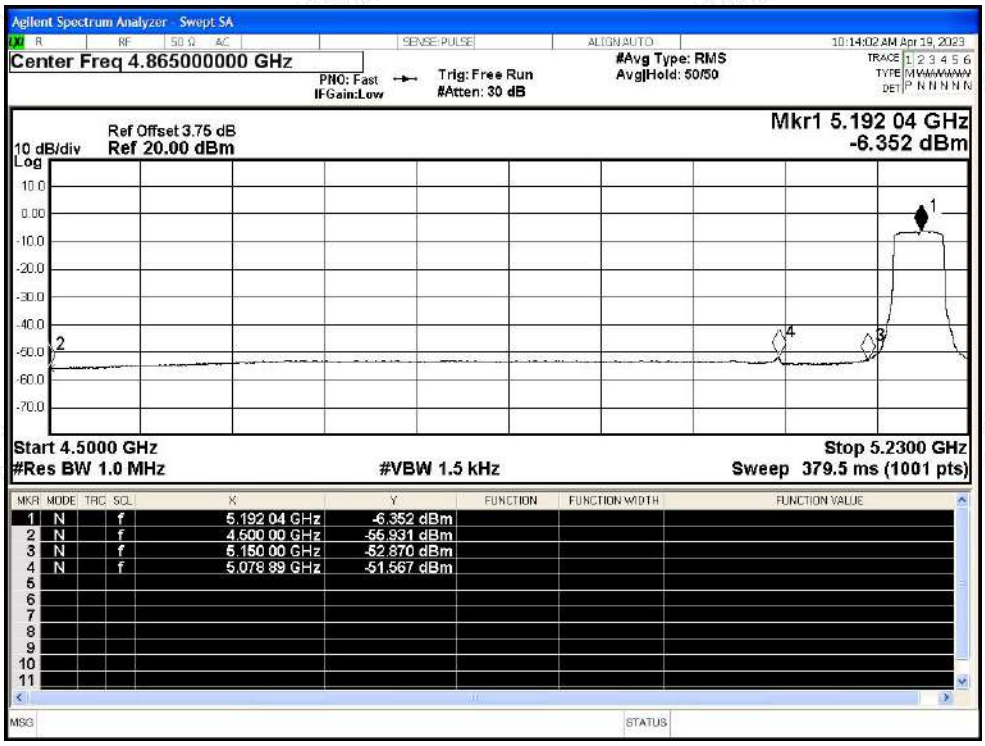
Restrict Band NVNT ax20 5240MHz Ant1 Average



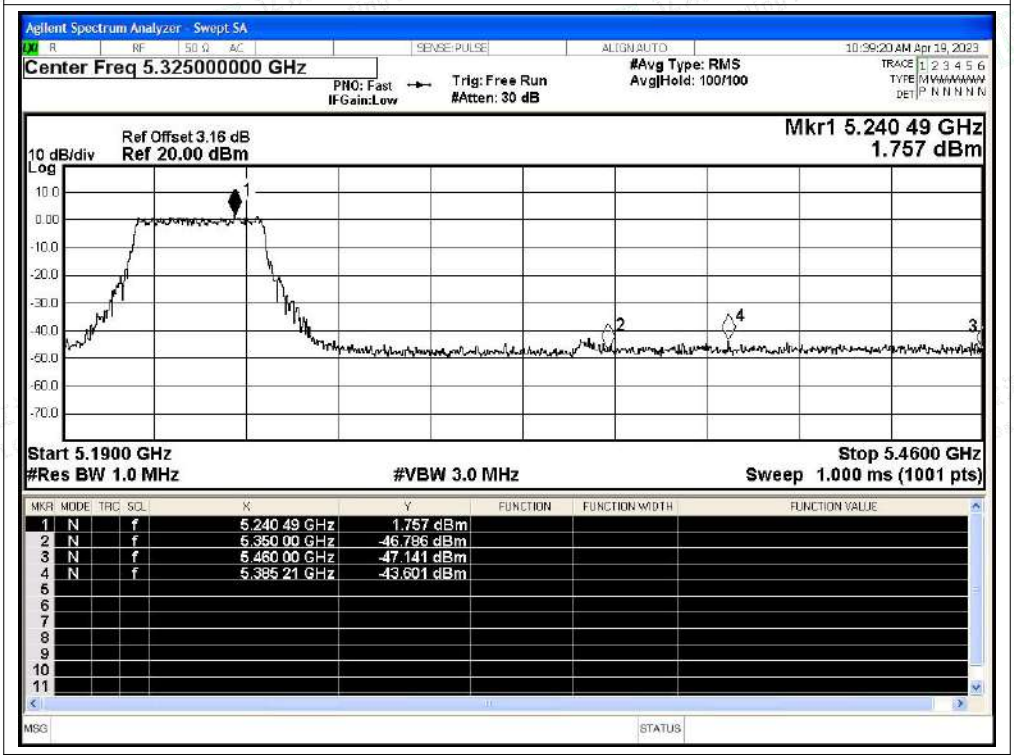
Restrict Band NVNT ax40 5190MHz Ant1 Peak



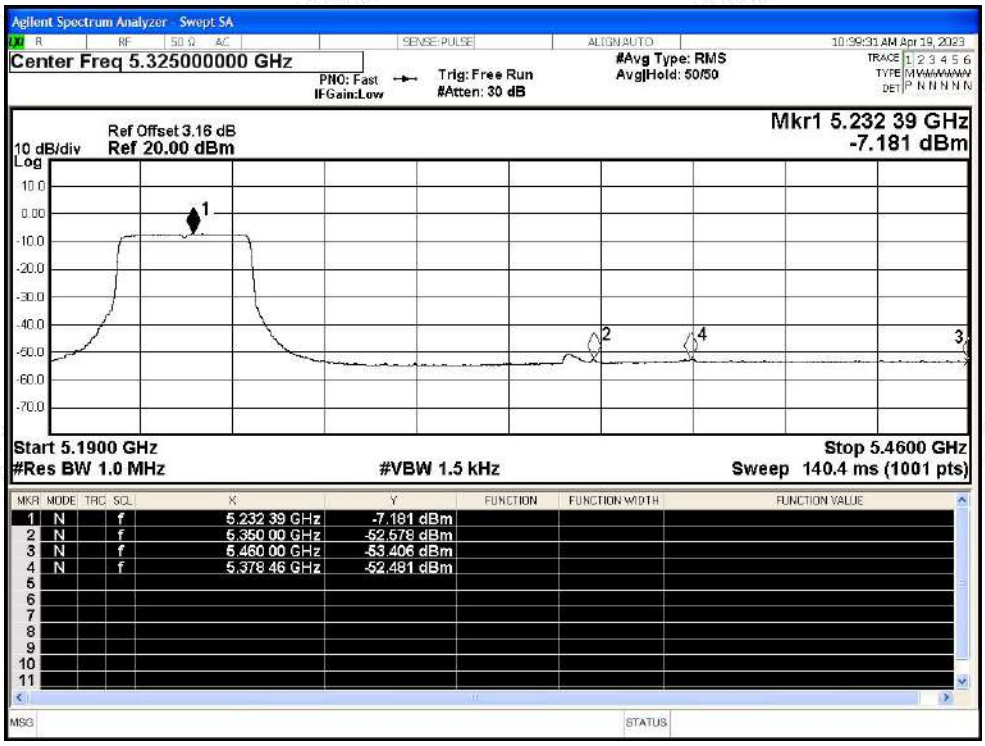
Restrict Band NVNT ax40 5190MHz Ant1 Average



Restrict Band NVNT ax40 5230MHz Ant1 Peak



Restrict Band NVNT ax40 5230MHz Ant1 Average

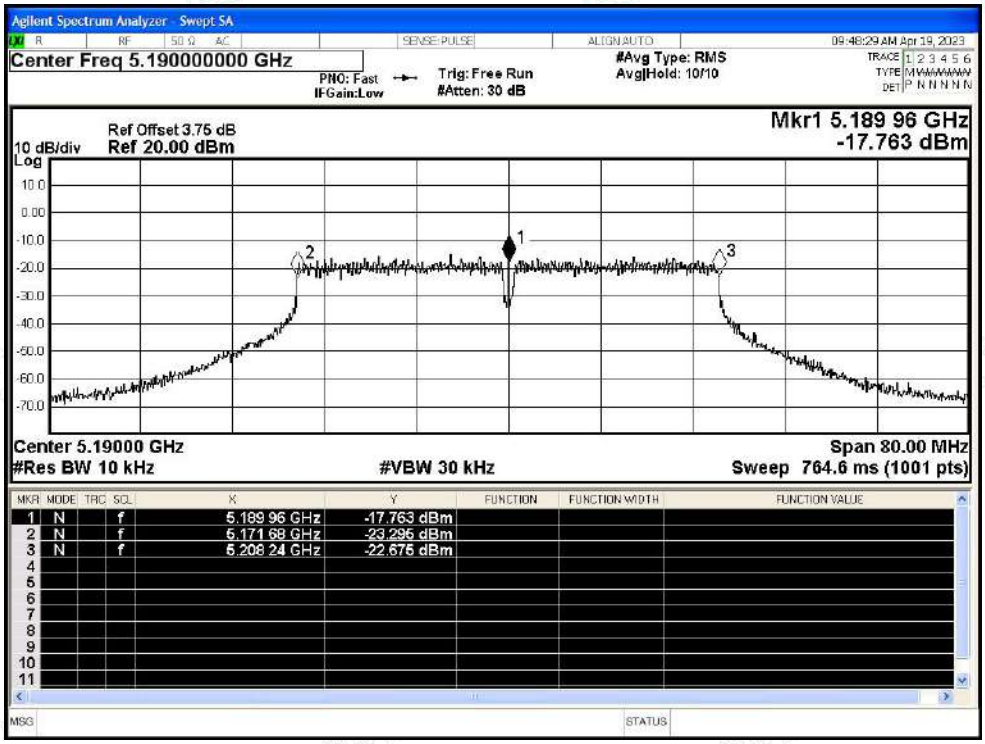


D.5 Frequency Stability

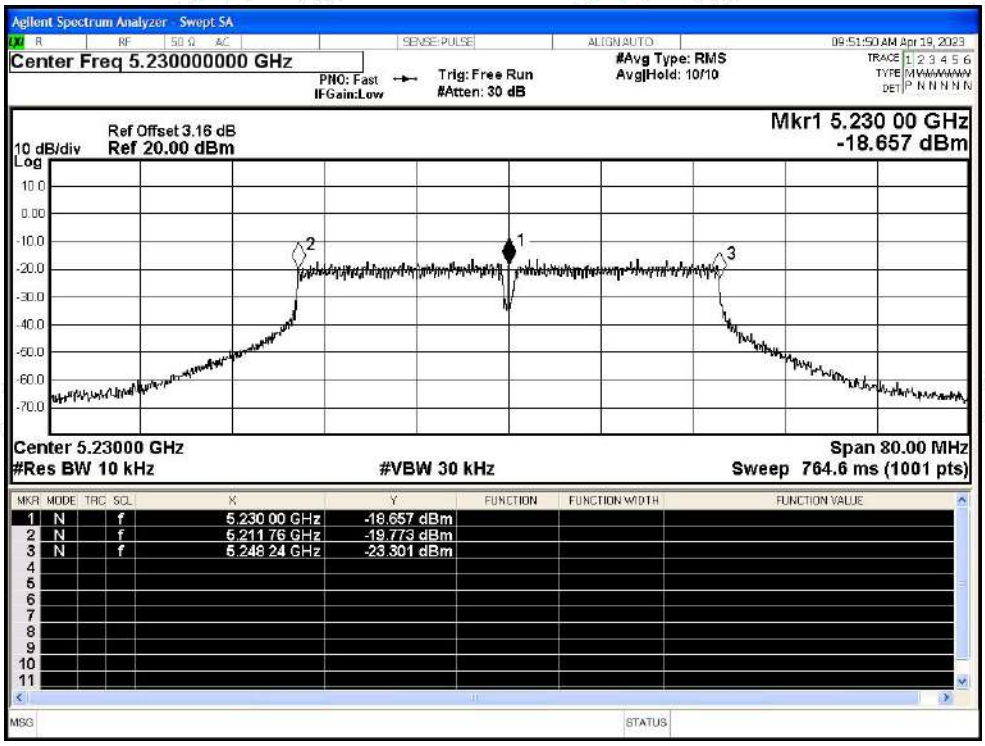
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ax20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	ax20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ax20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ax40	5230	Ant1	5230	0	0	25	Pass

Test Graphs

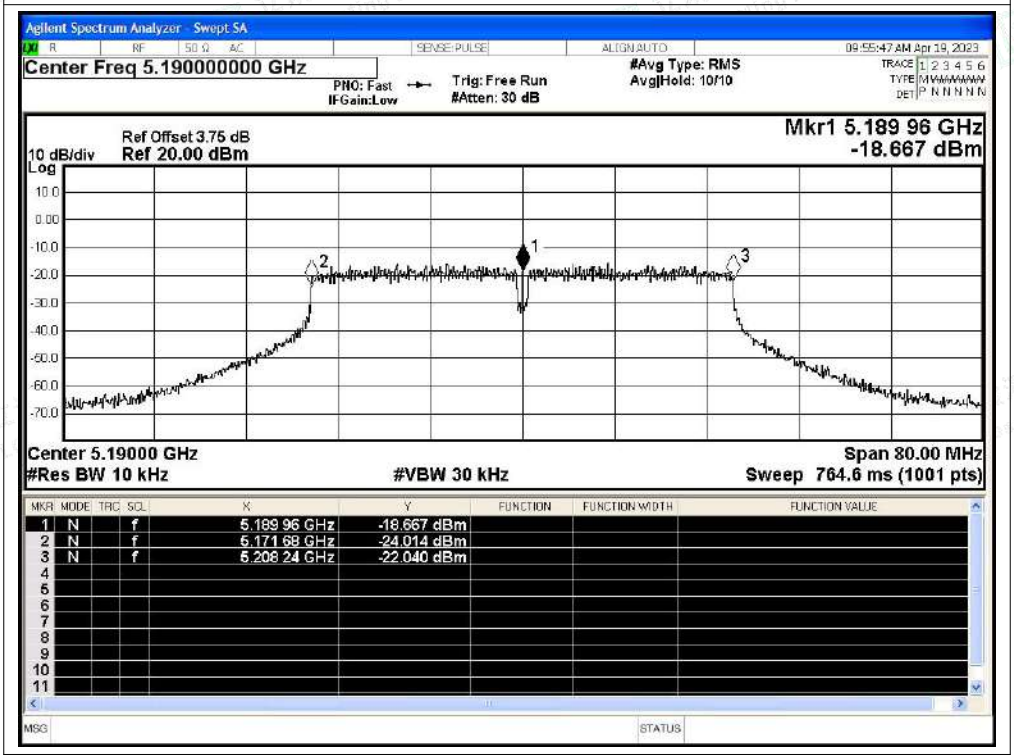
Freq. Stability NVNT n40 5190MHz Ant1



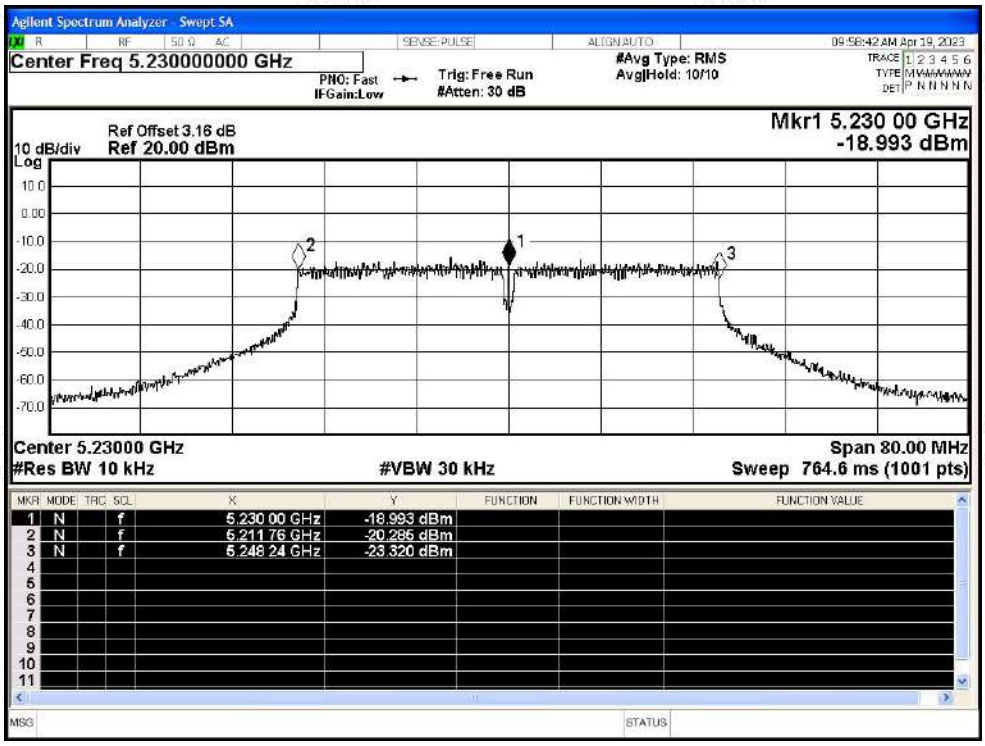
Freq. Stability NVNT n40 5230MHz Ant1



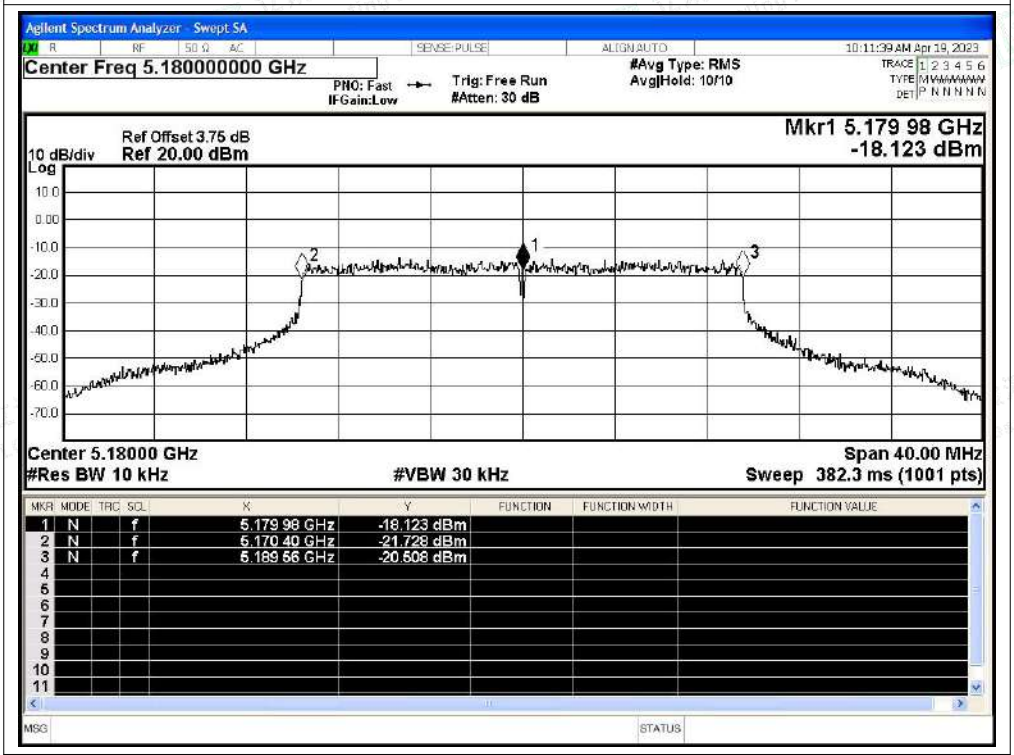
Freq. Stability NVNT ac40 5190MHz Ant1



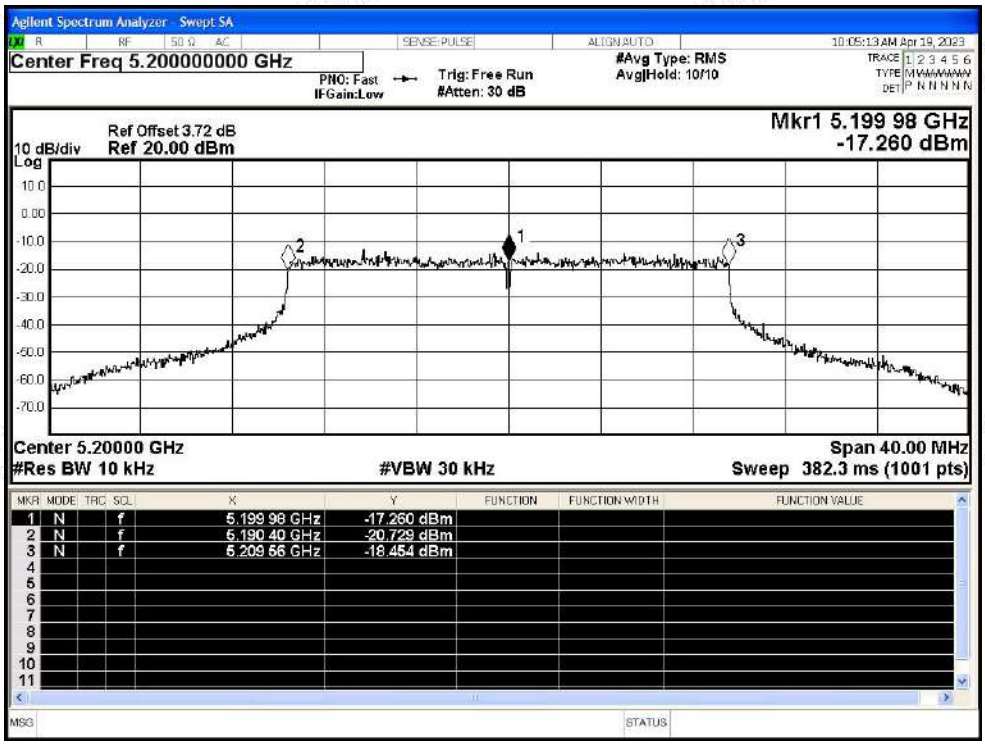
Freq. Stability NVNT ac40 5230MHz Ant1



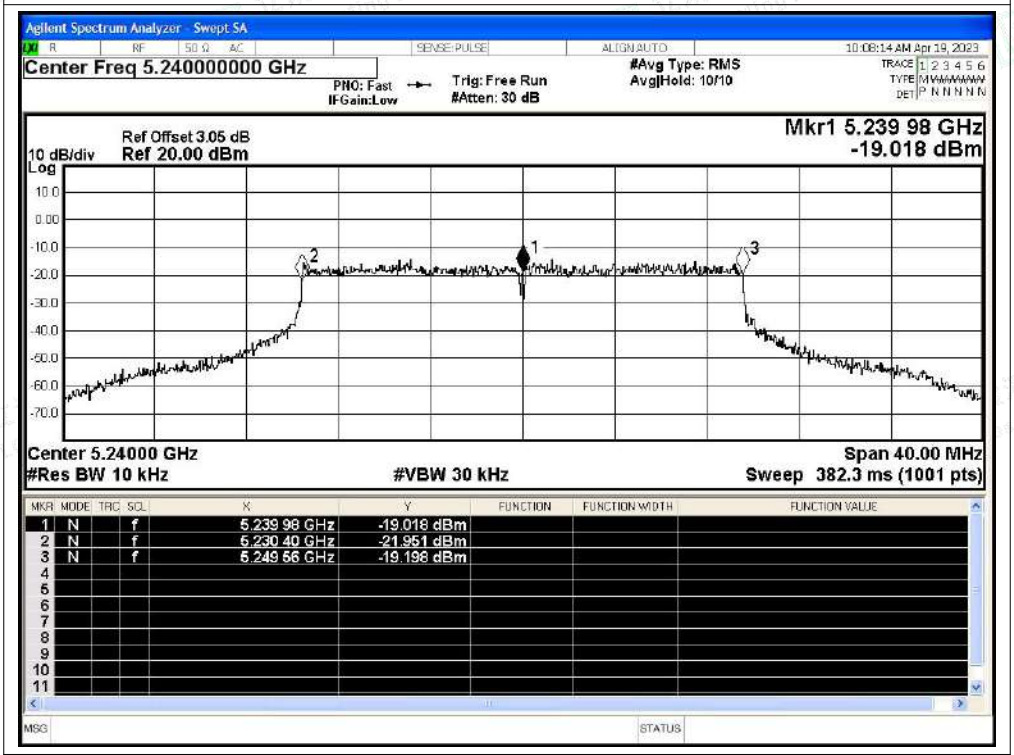
Freq. Stability NVNT ax20 5180MHz Ant1



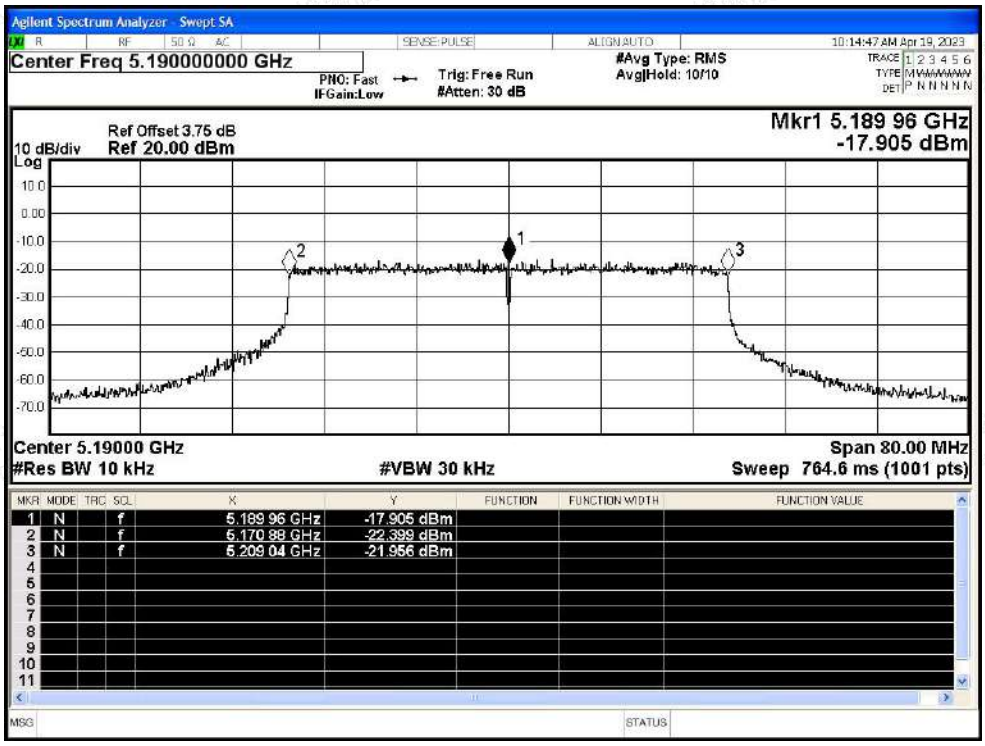
Freq. Stability NVNT ax20 5200MHz Ant1



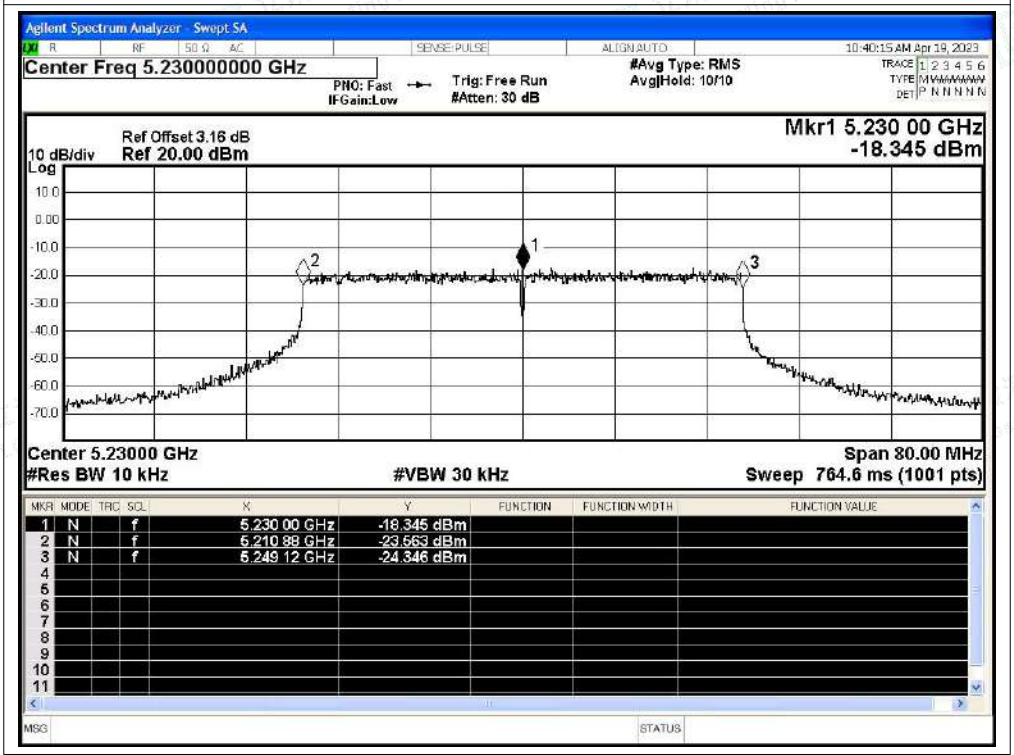
Freq. Stability NVNT ax20 5240MHz Ant1



Freq. Stability NVNT ax40 5190MHz Ant1



Freq. Stability NVNT ax40 5230MHz Ant1

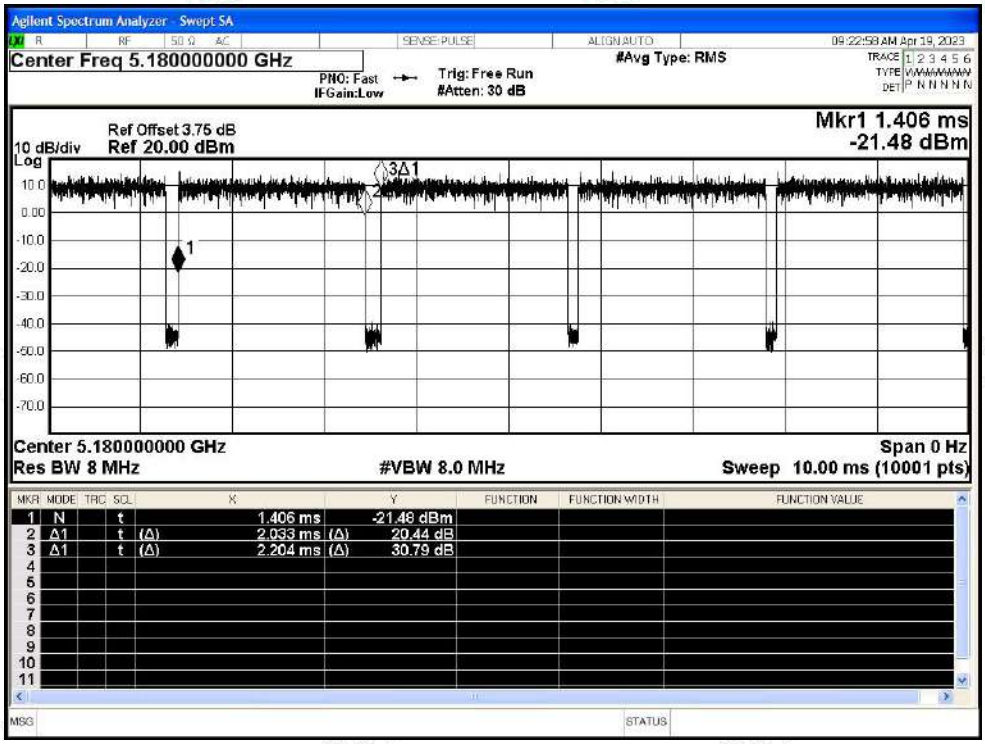


D.6 Duty Cycle

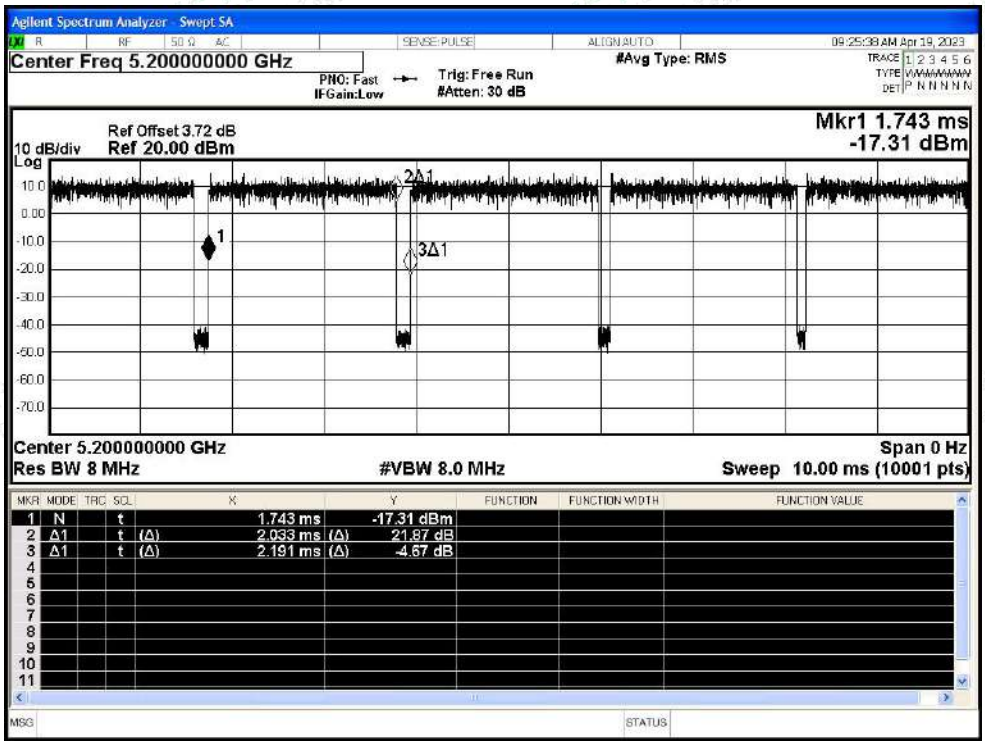
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	92.24	0.35	0.49
NVNT	a	5200	Ant1	92.79	0.32	0.49
NVNT	a	5240	Ant1	93.56	0.29	0.49
NVNT	n20	5180	Ant1	93.34	0.3	0.53
NVNT	n20	5200	Ant1	96.98	0.13	0.53
NVNT	n20	5240	Ant1	92.3	0.35	0.53
NVNT	n40	5190	Ant1	85.52	0.68	1.07
NVNT	n40	5230	Ant1	88.94	0.51	1.07
NVNT	ac20	5180	Ant1	91.53	0.38	0.53
NVNT	ac20	5200	Ant1	97.44	0.11	0.53
NVNT	ac20	5240	Ant1	94.76	0.23	0.53
NVNT	ac40	5190	Ant1	85.19	0.7	1.07
NVNT	ac40	5230	Ant1	85.52	0.68	1.07
NVNT	ax20	5180	Ant1	90.14	0.45	0.69
NVNT	ax20	5200	Ant1	94.98	0.22	0.69
NVNT	ax20	5240	Ant1	92.26	0.35	0.69
NVNT	ax40	5190	Ant1	84.23	0.75	1.34
NVNT	ax40	5230	Ant1	80.6	0.94	1.34

Test Graphs

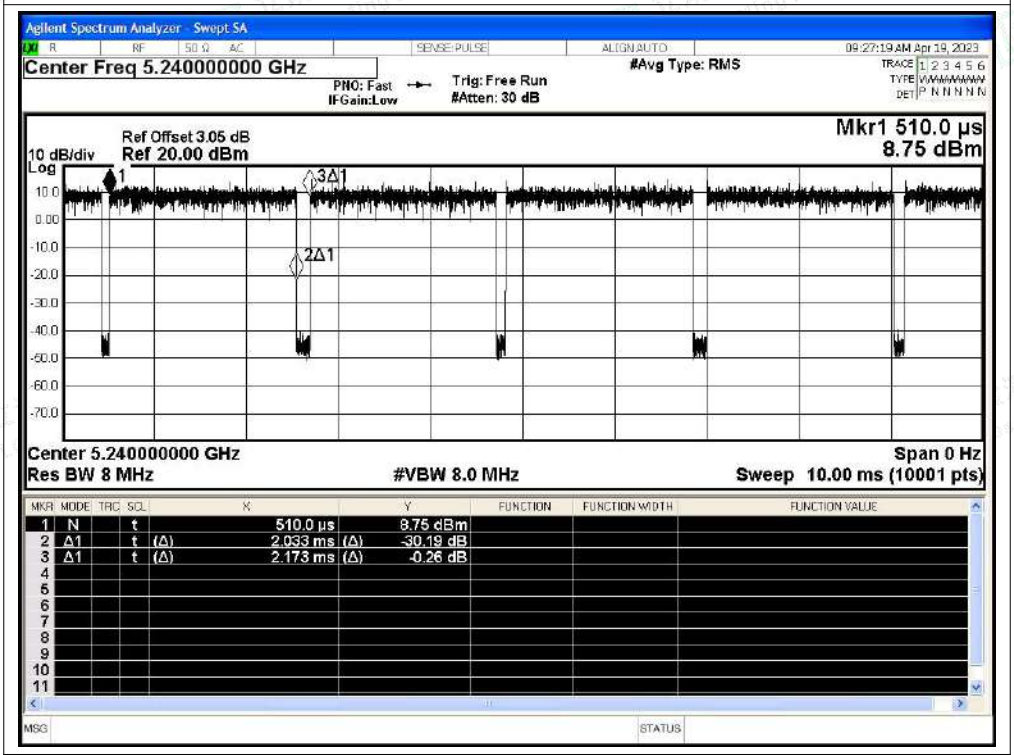
Duty Cycle NVNT a 5180MHz Ant1



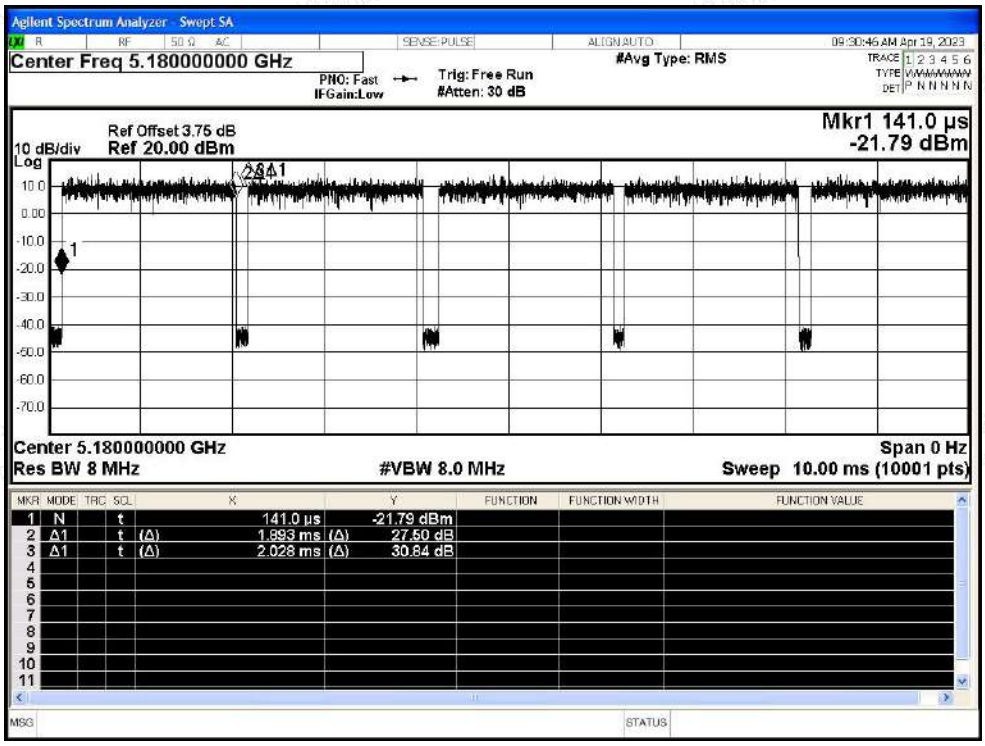
Duty Cycle NVNT a 5200MHz Ant1



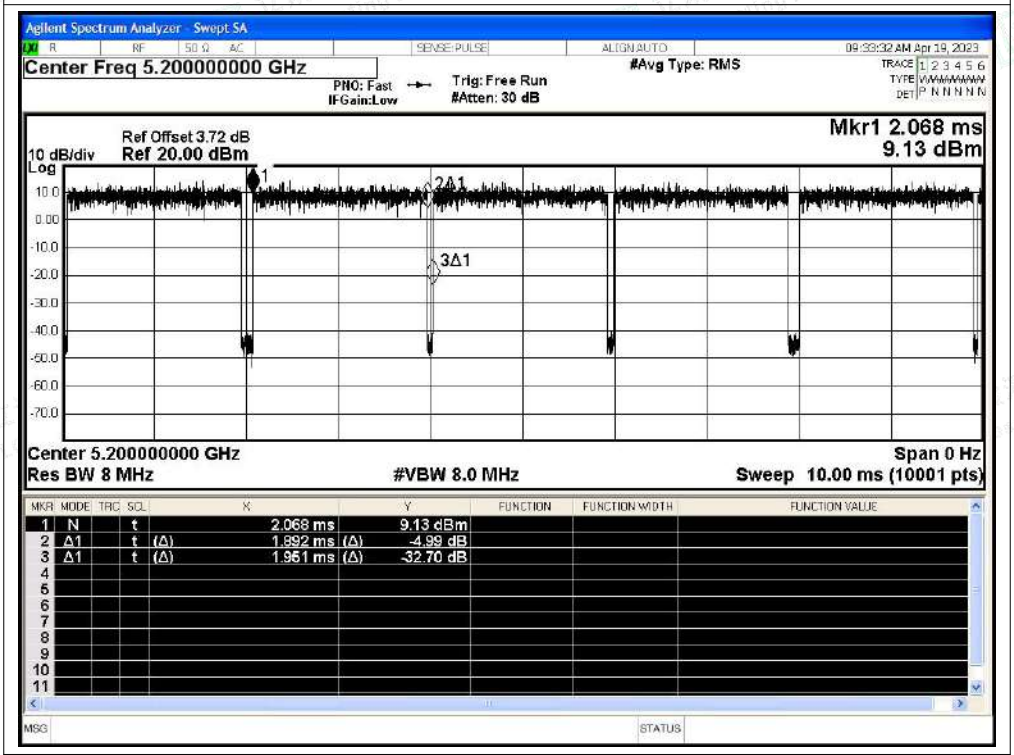
Duty Cycle NVNT a 5240MHz Ant1



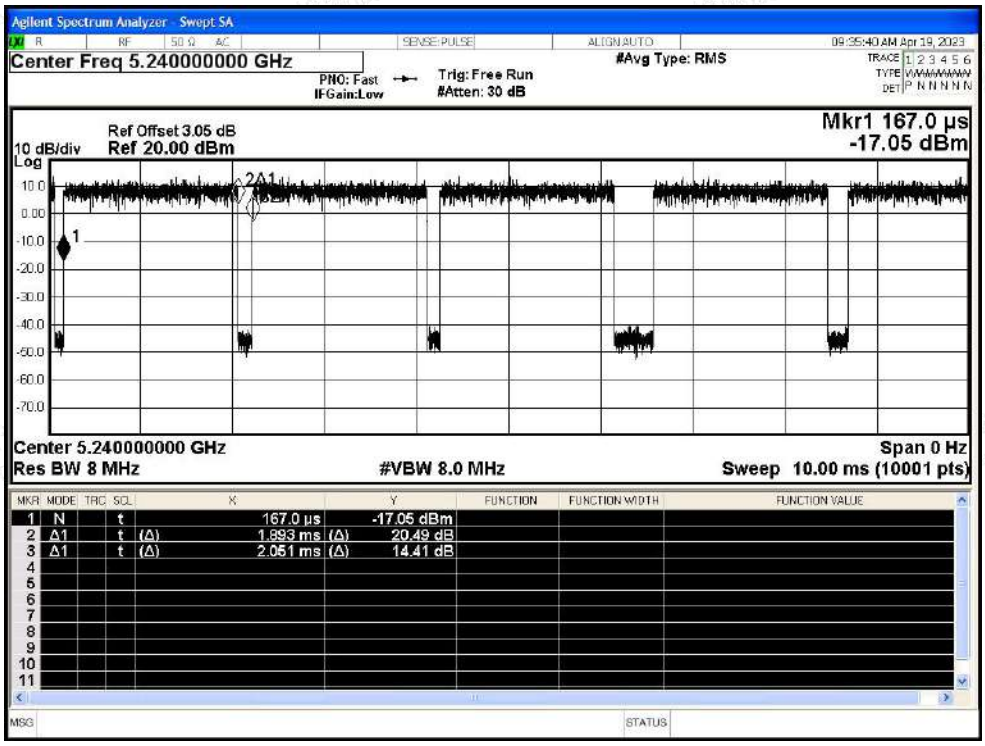
Duty Cycle NVNT n20 5180MHz Ant1



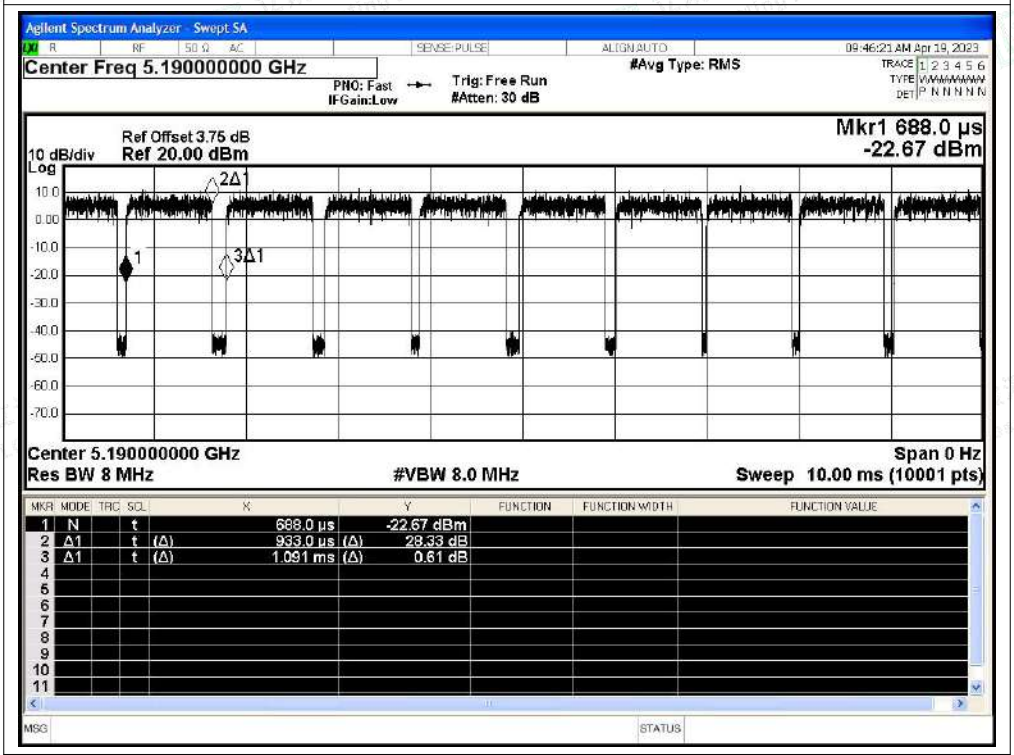
Duty Cycle NVNT n20 5200MHz Ant1



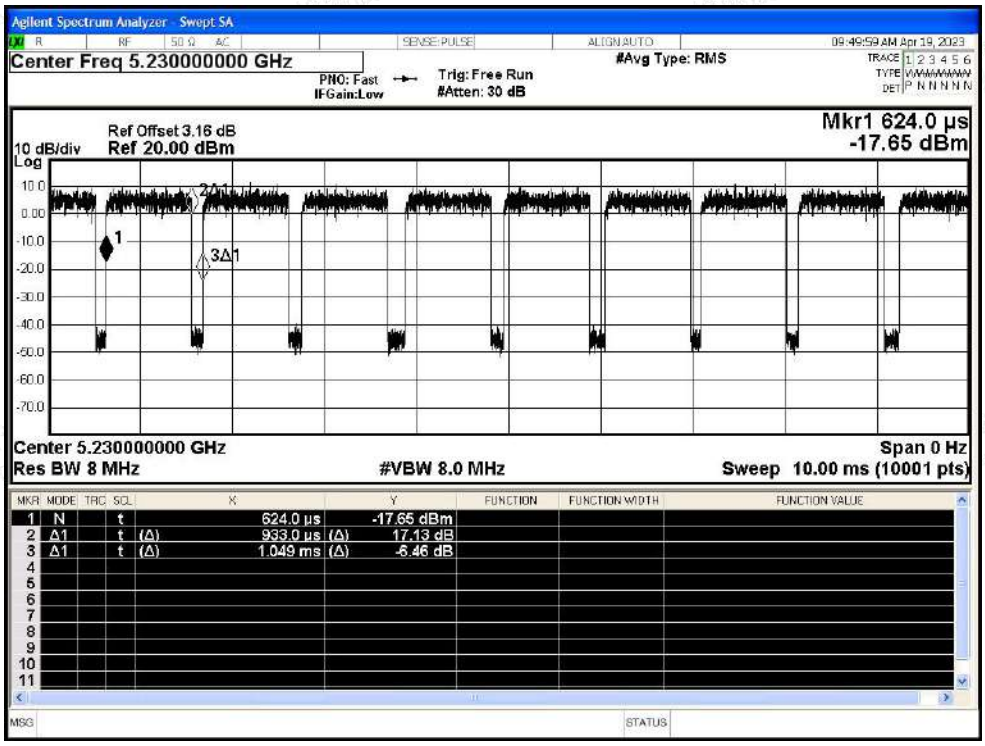
Duty Cycle NVNT n20 5240MHz Ant1



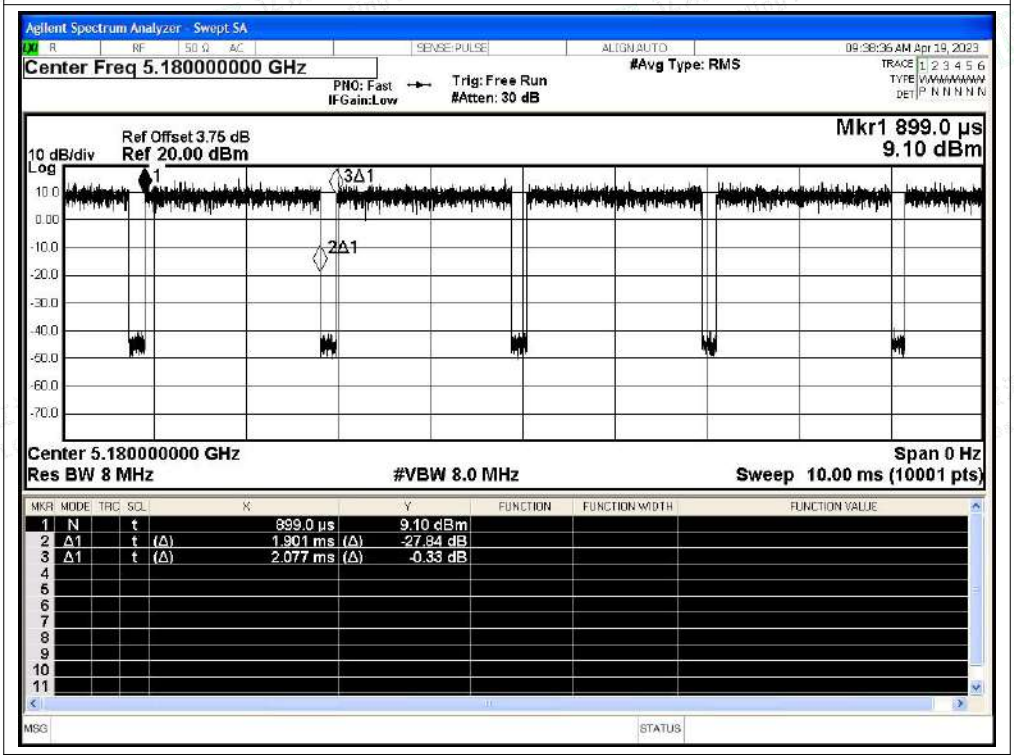
Duty Cycle NVNT n40 5190MHz Ant1



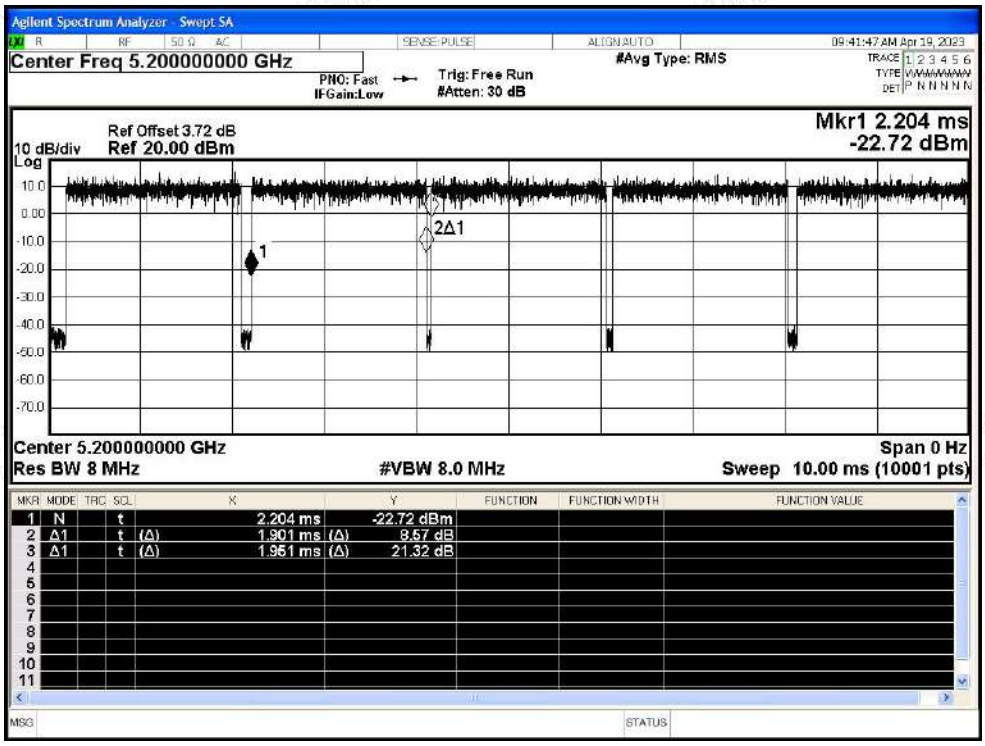
Duty Cycle NVNT n40 5230MHz Ant1



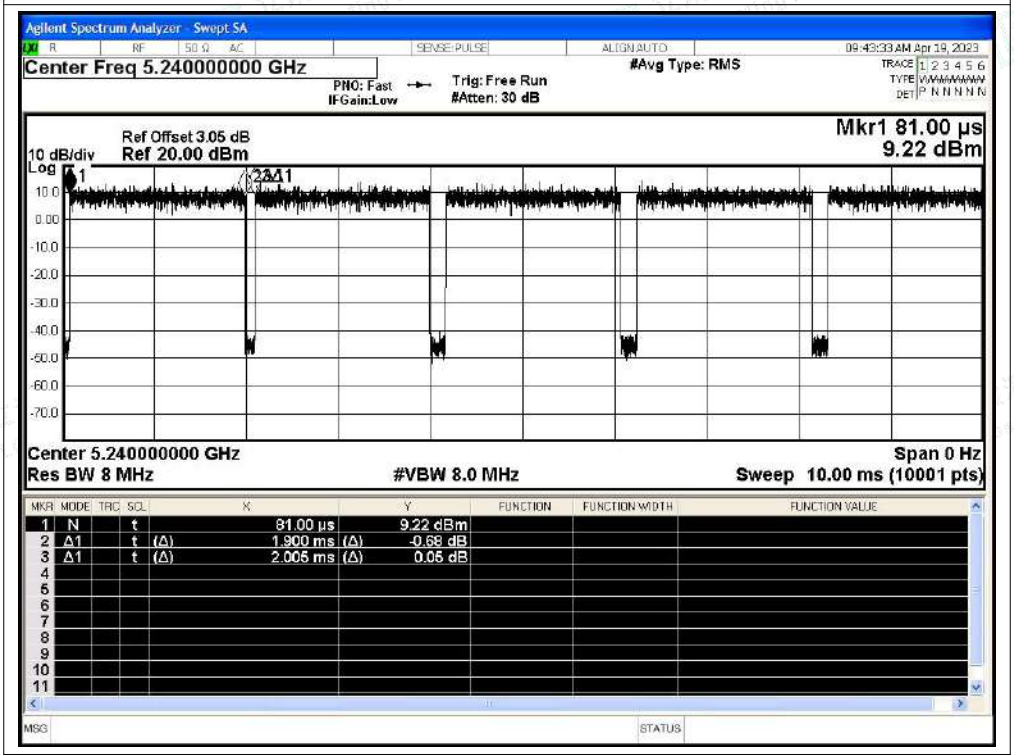
Duty Cycle NVNT ac20 5180MHz Ant1



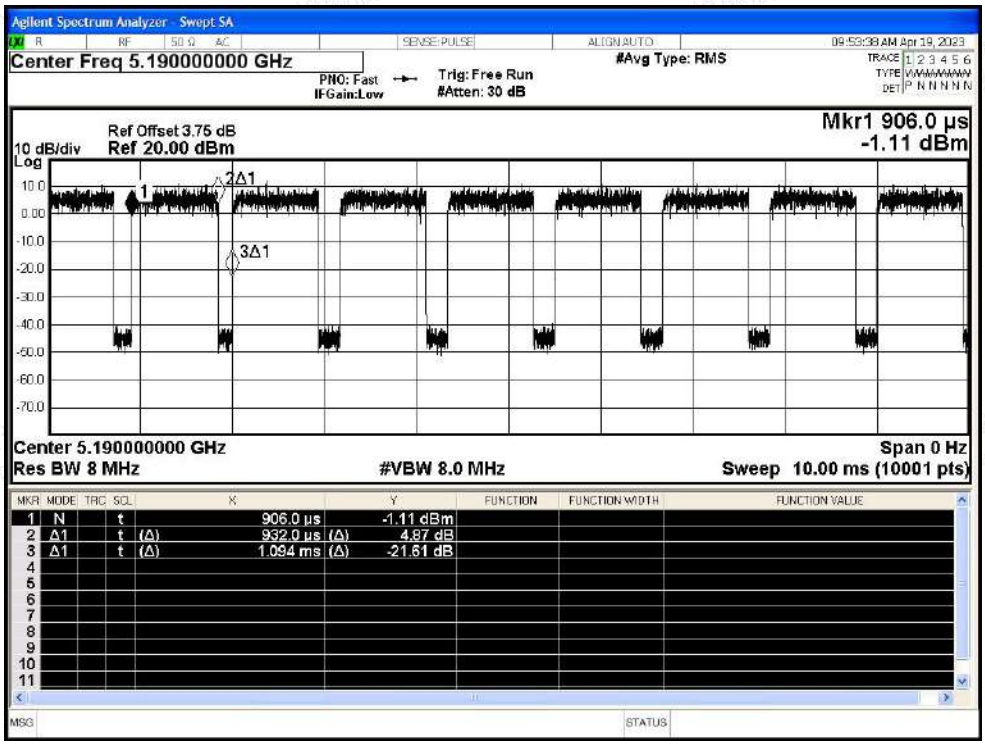
Duty Cycle NVNT ac20 5200MHz Ant1



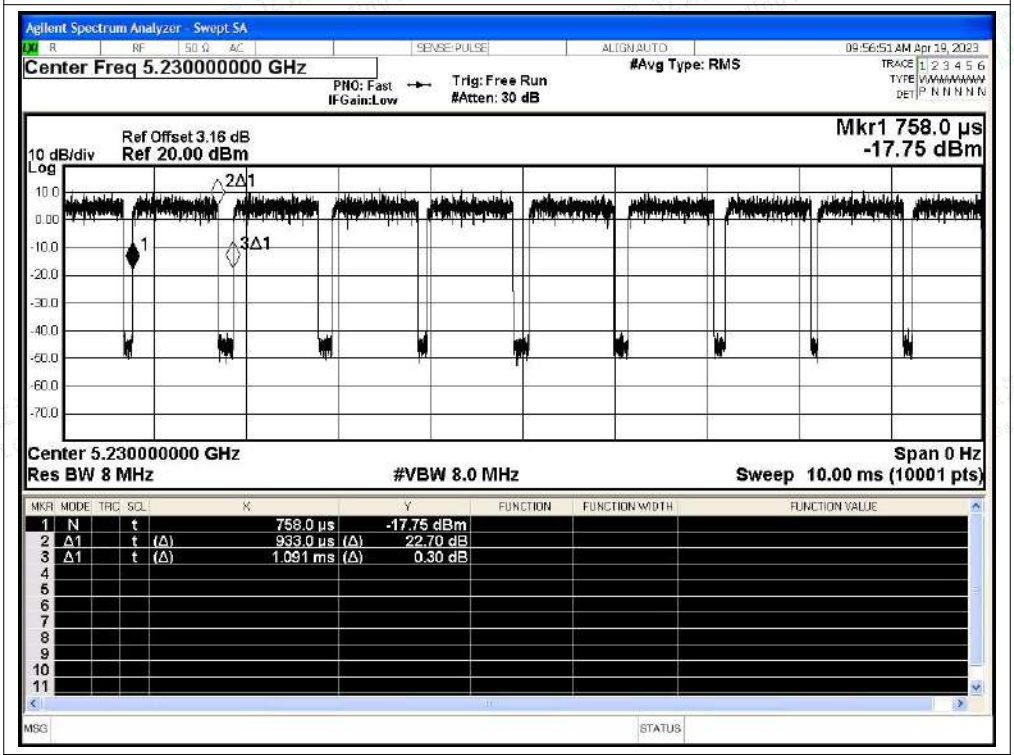
Duty Cycle NVNT ac20 5240MHz Ant1



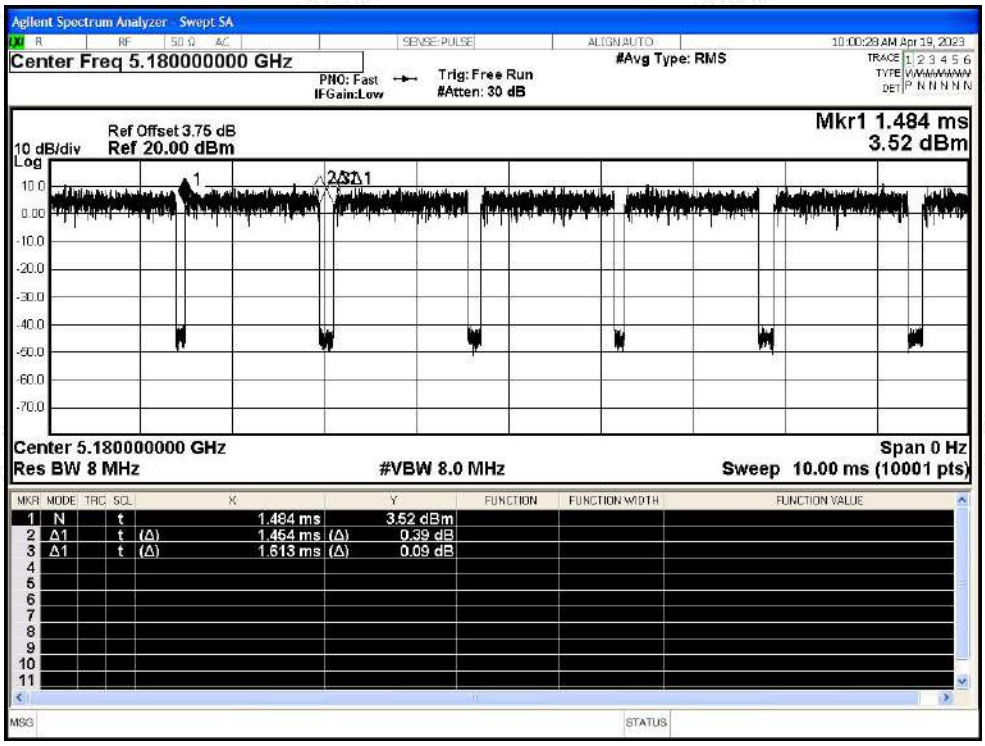
Duty Cycle NVNT ac40 5190MHz Ant1



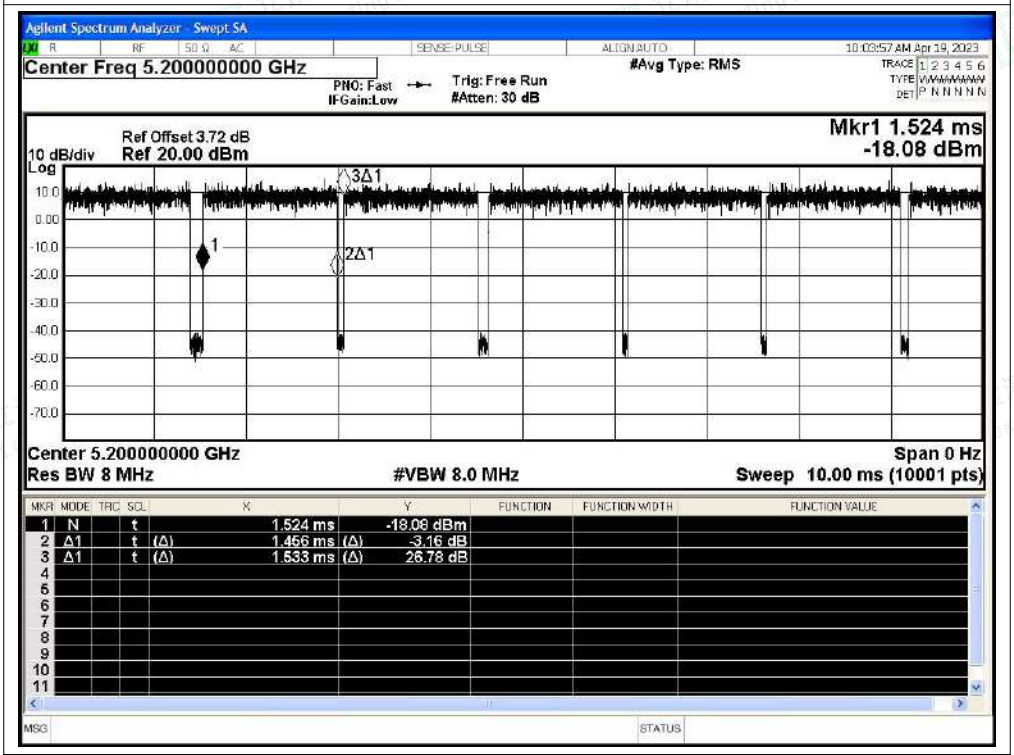
Duty Cycle NVNT ac40 5230MHz Ant1



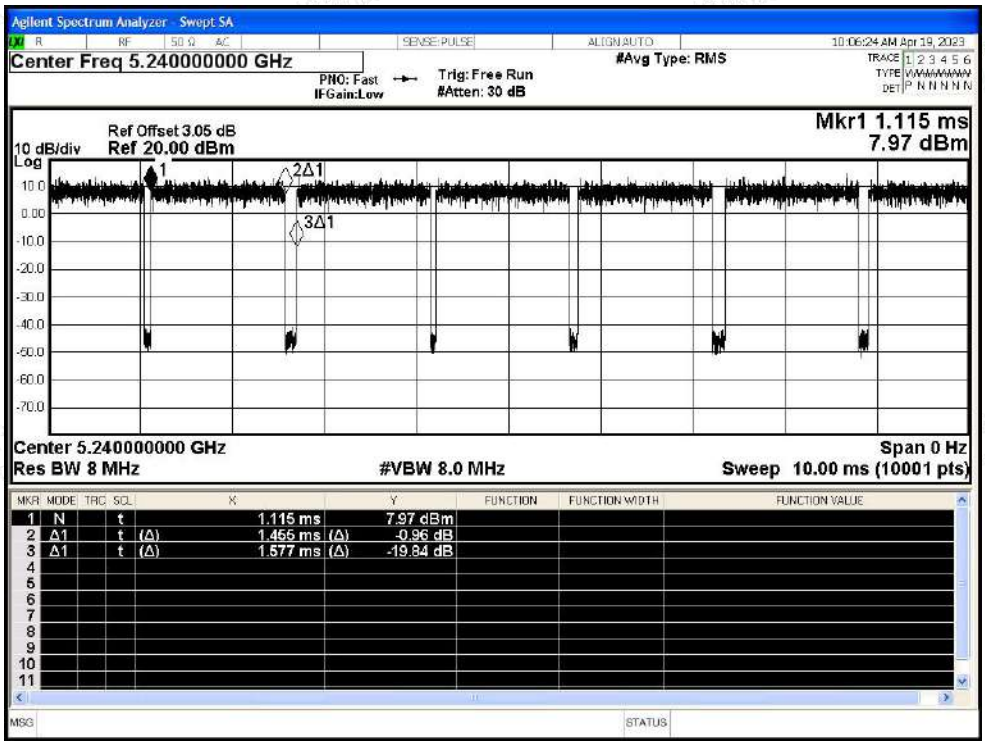
Duty Cycle NVNT ax20 5180MHz Ant1



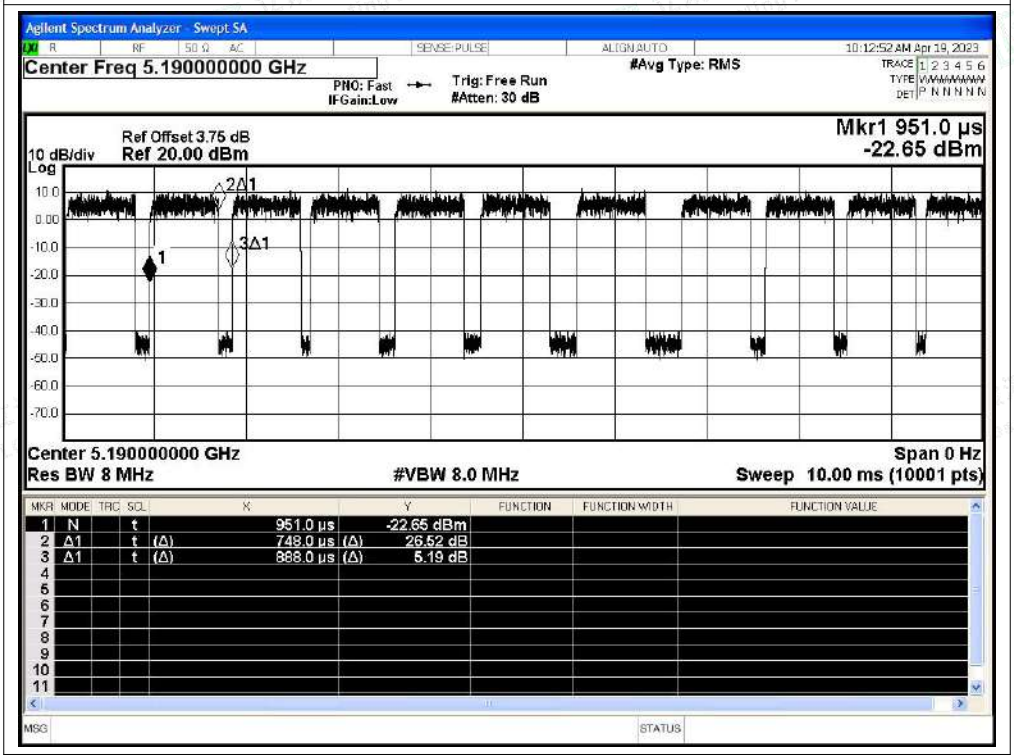
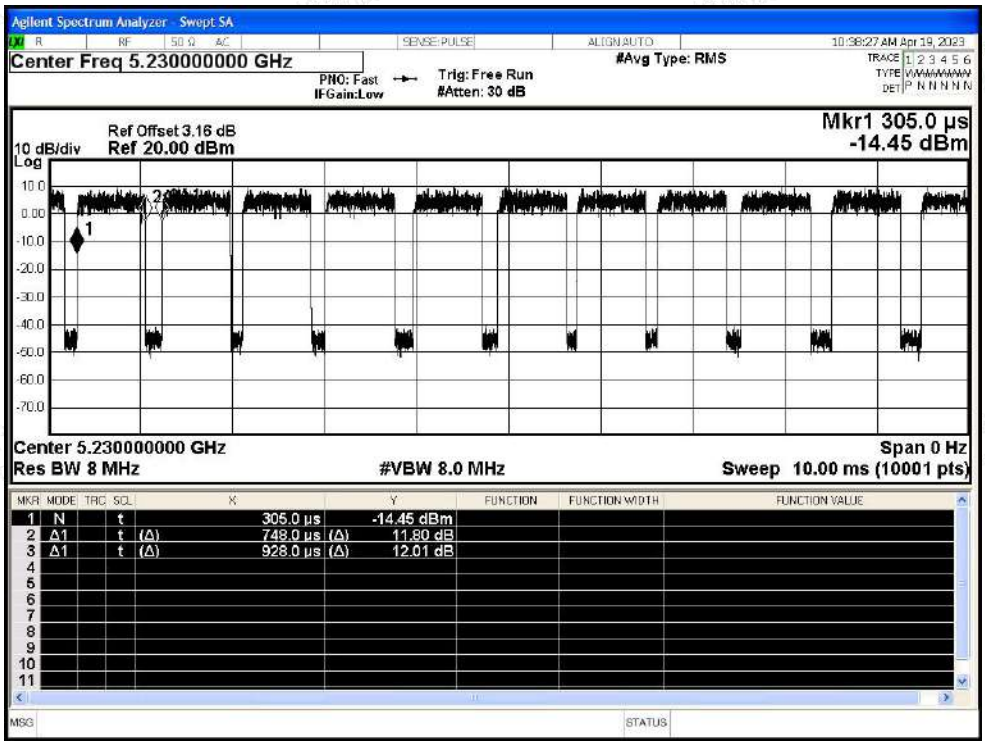
Duty Cycle NVNT ax20 5200MHz Ant1



Duty Cycle NVNT ax20 5240MHz Ant1



Duty Cycle NVNT ax40 5190MHz Ant1



Duty Cycle NVNT ax40 5230MHz Ant1