Appendix B

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: 1300Mbps USB WiFi Adapter

Test Model: 2505014

Environmental Conditions

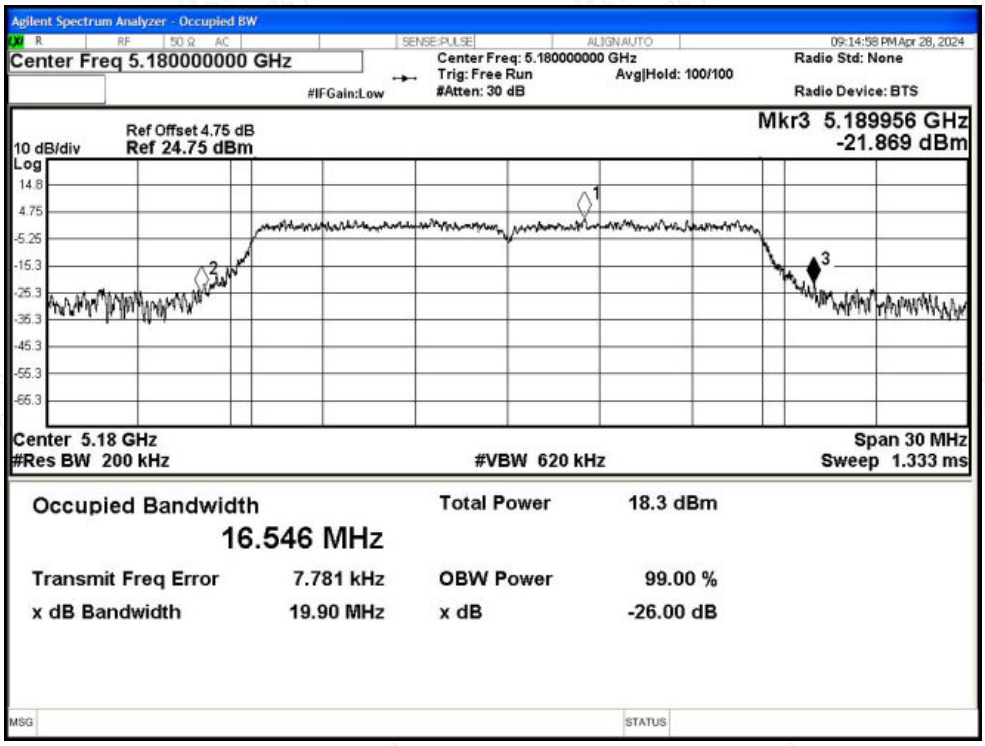
Temperature:	23.5°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

B.1 -26dB Bandwidth

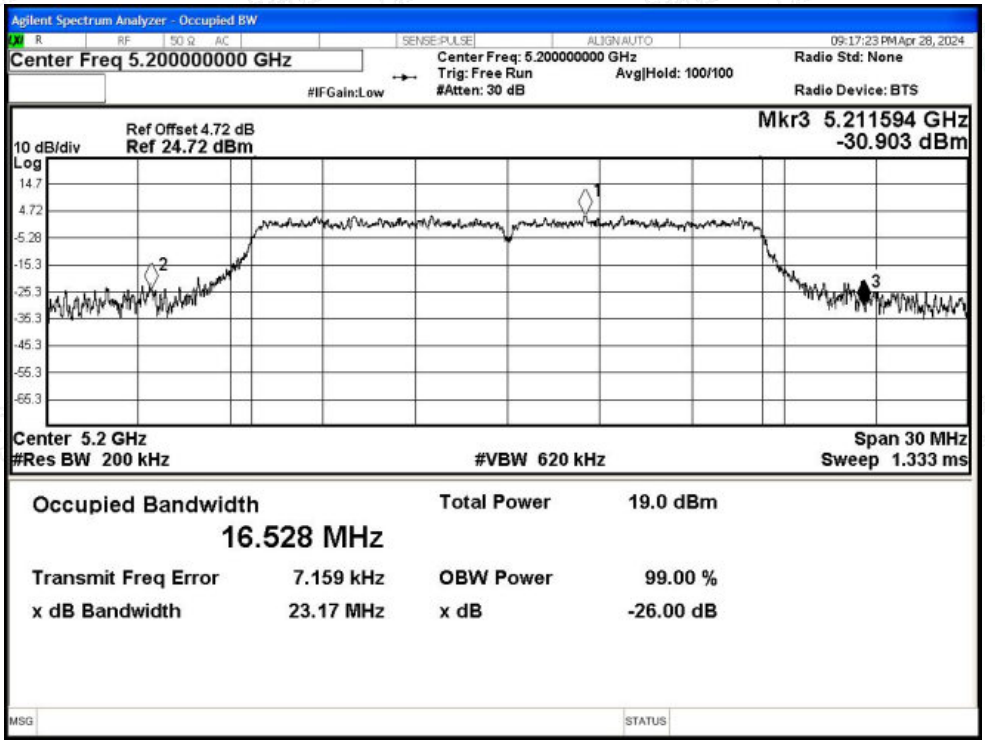
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.896	---	Pass
NVNT	a	5200	Ant1	23.173	---	Pass
NVNT	a	5240	Ant1	23.006	---	Pass
NVNT	n20	5180	Ant1	27.259	---	Pass
NVNT	n20	5200	Ant1	23.673	---	Pass
NVNT	n20	5240	Ant1	26.653	---	Pass
NVNT	n40	5190	Ant1	40.765	---	Pass
NVNT	n40	5230	Ant1	46.528	---	Pass
NVNT	ac20	5180	Ant1	26.084	---	Pass
NVNT	ac20	5200	Ant1	23.427	---	Pass
NVNT	ac20	5240	Ant1	24.889	---	Pass
NVNT	ac40	5190	Ant1	39.747	---	Pass
NVNT	ac40	5230	Ant1	45.116	---	Pass
NVNT	ac80	5210	Ant1	81.531	---	Pass

Test Graphs

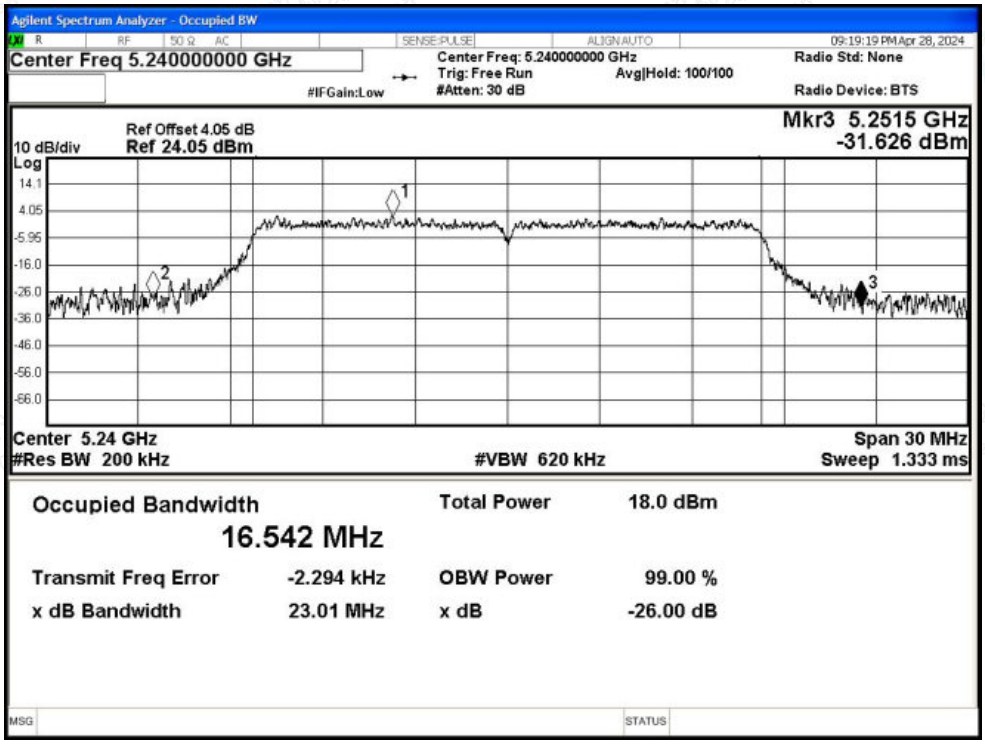
-26dB Bandwidth NVNT a 5180MHz Ant1



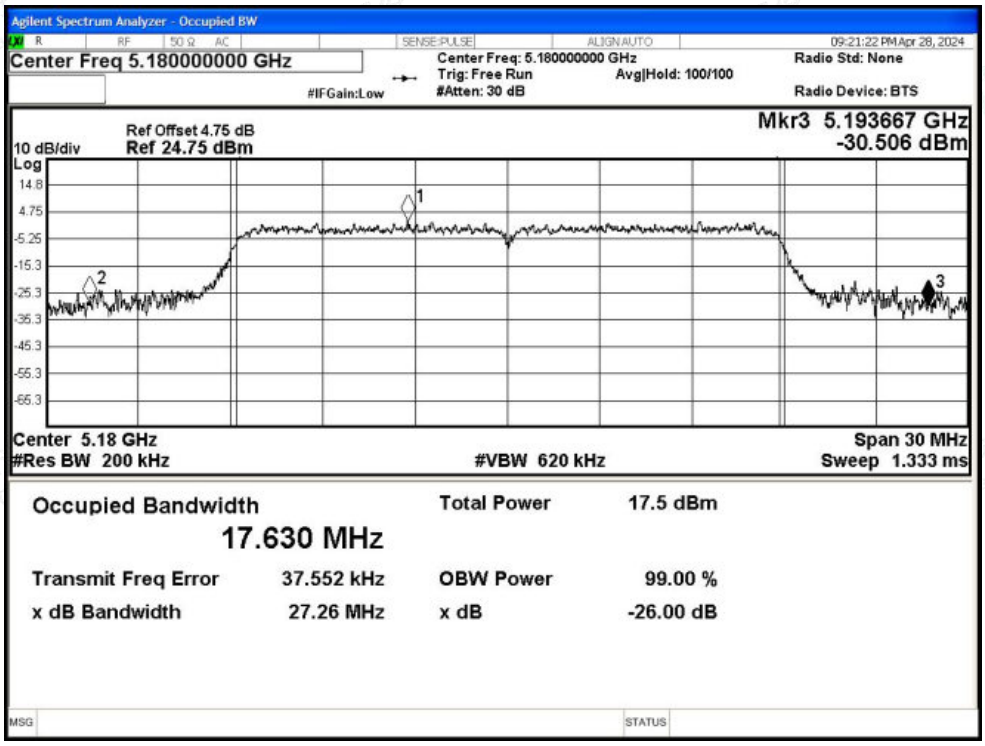
-26dB Bandwidth NVNT a 5200MHz Ant1



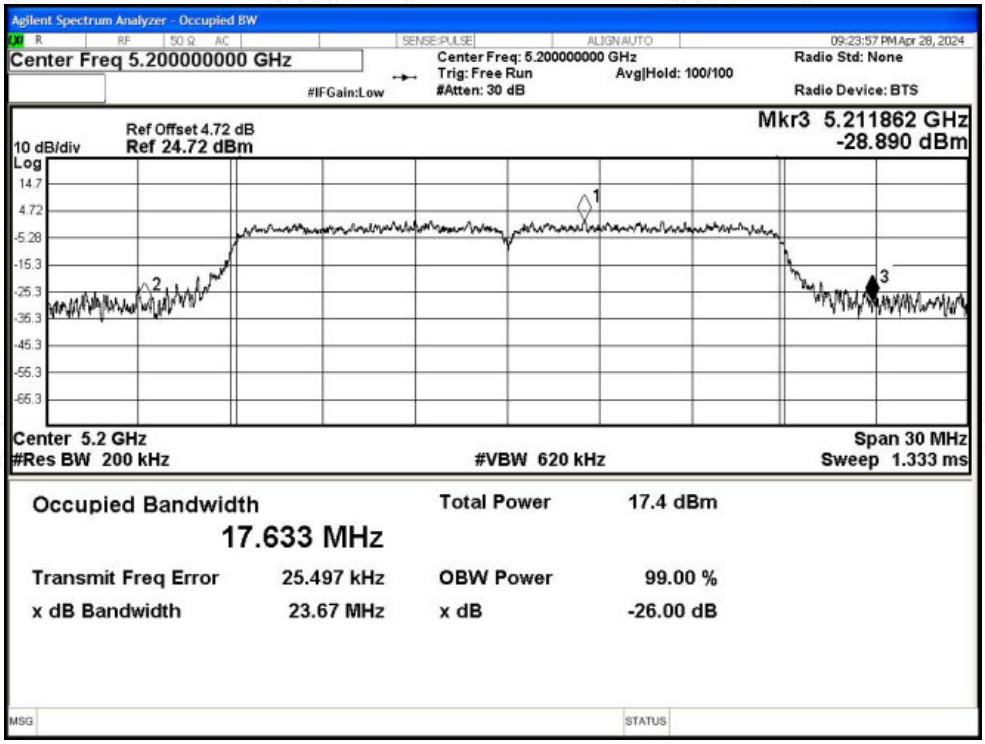
-26dB Bandwidth NVNT a 5240MHz Ant1



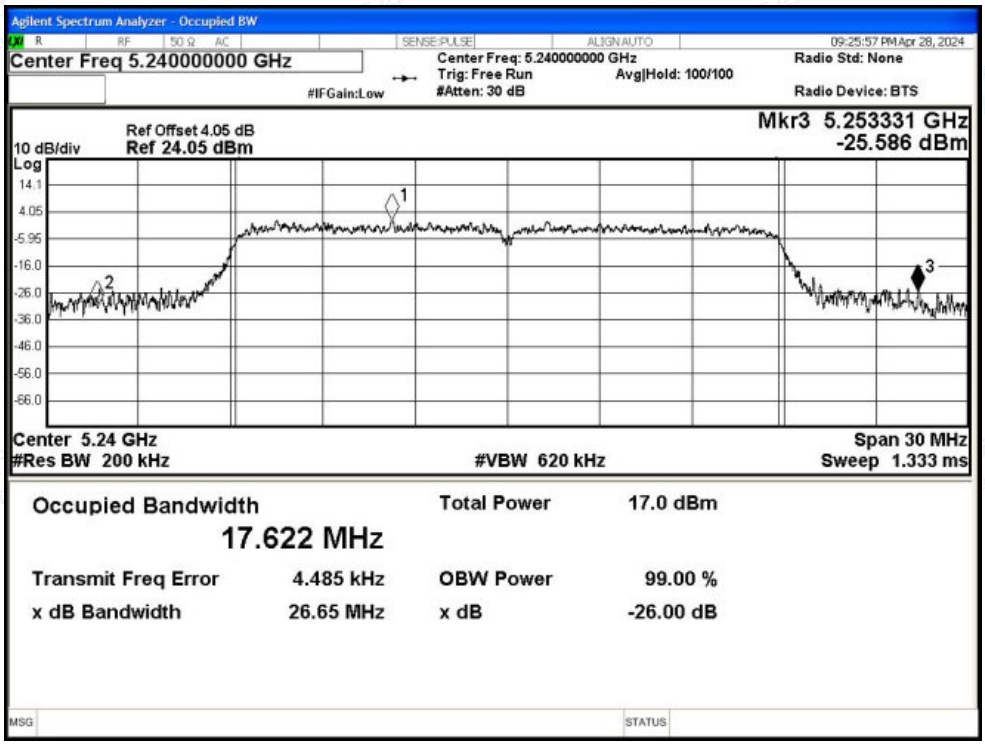
-26dB Bandwidth NVNT n20 5180MHz Ant1



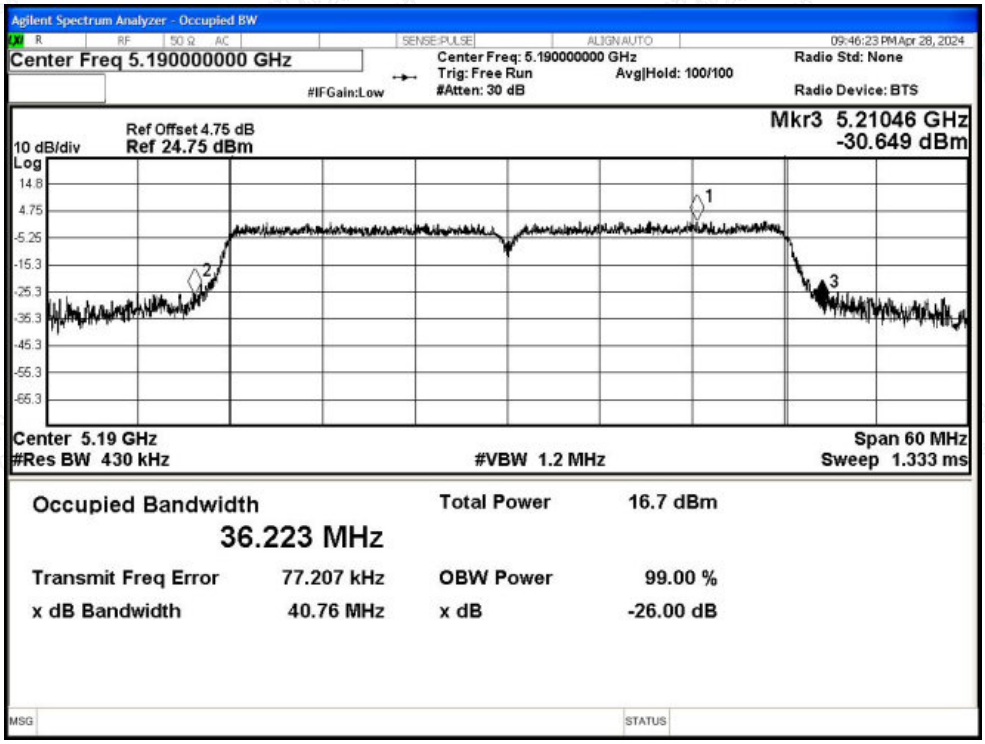
-26dB Bandwidth NVNT n20 5200MHz Ant1



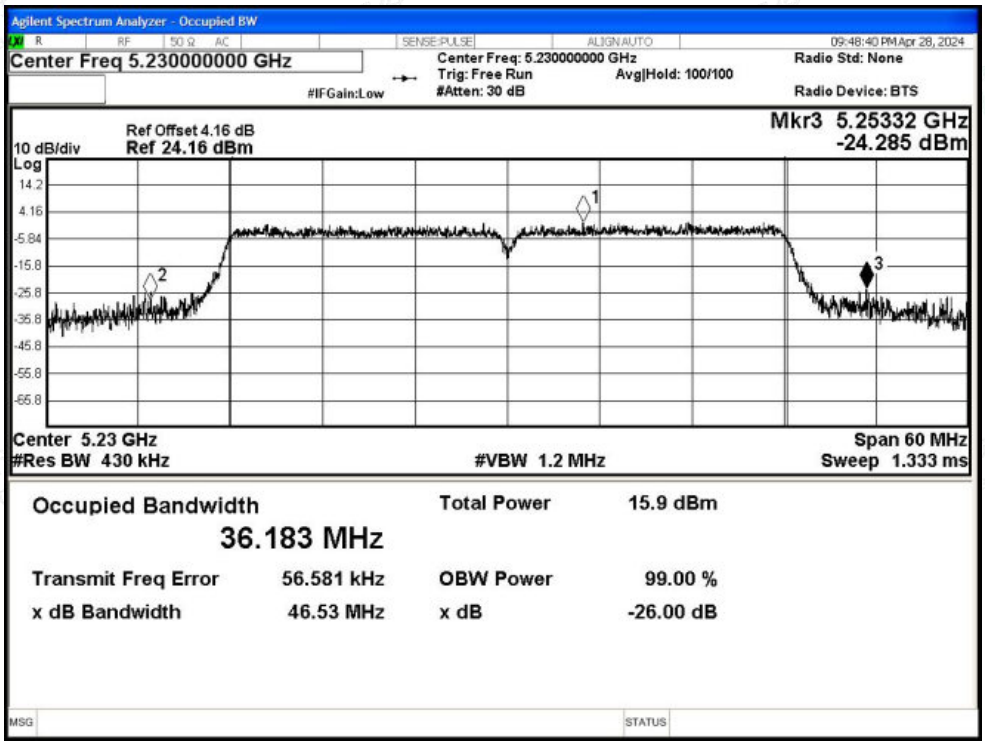
-26dB Bandwidth NVNT n20 5240MHz Ant1



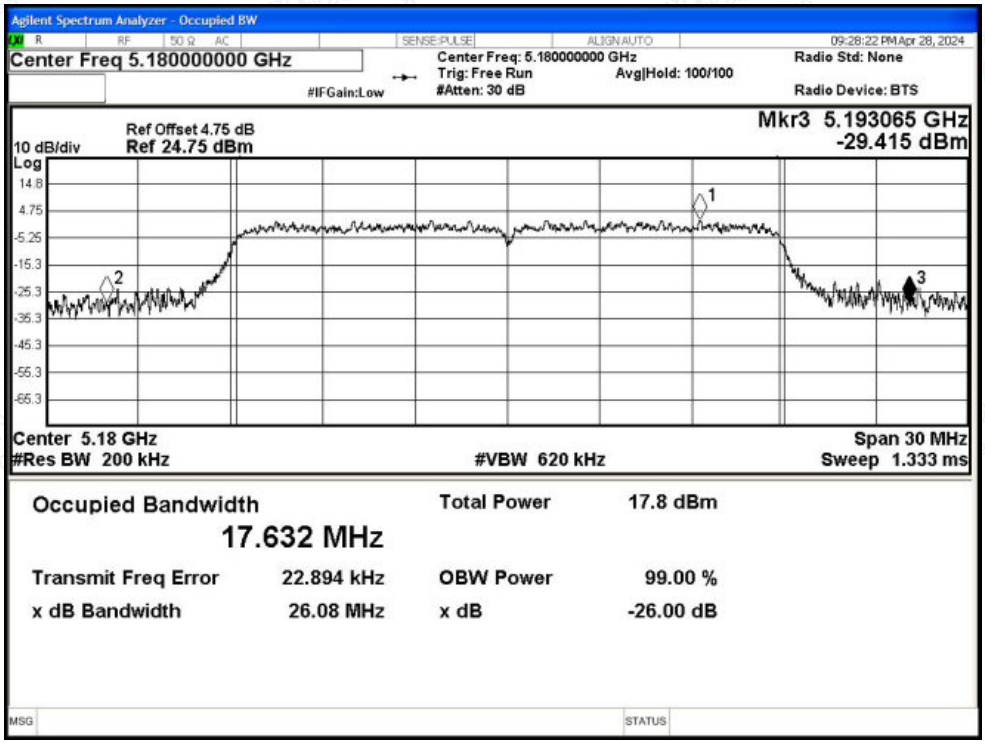
-26dB Bandwidth NVNT n40 5190MHz Ant1



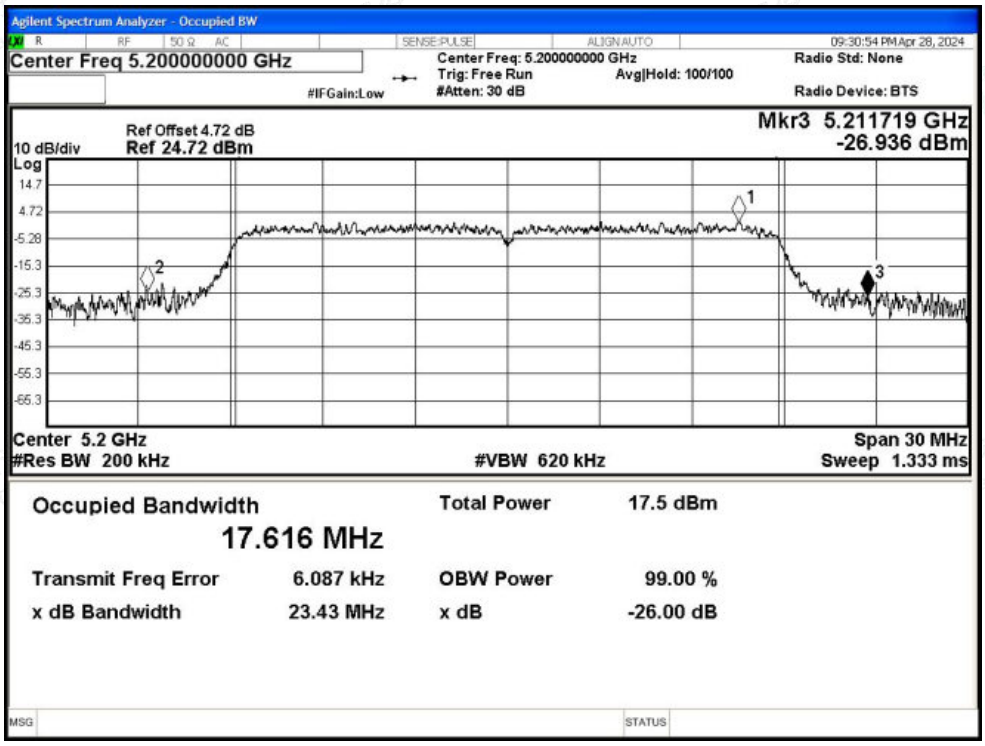
-26dB Bandwidth NVNT n40 5230MHz Ant1



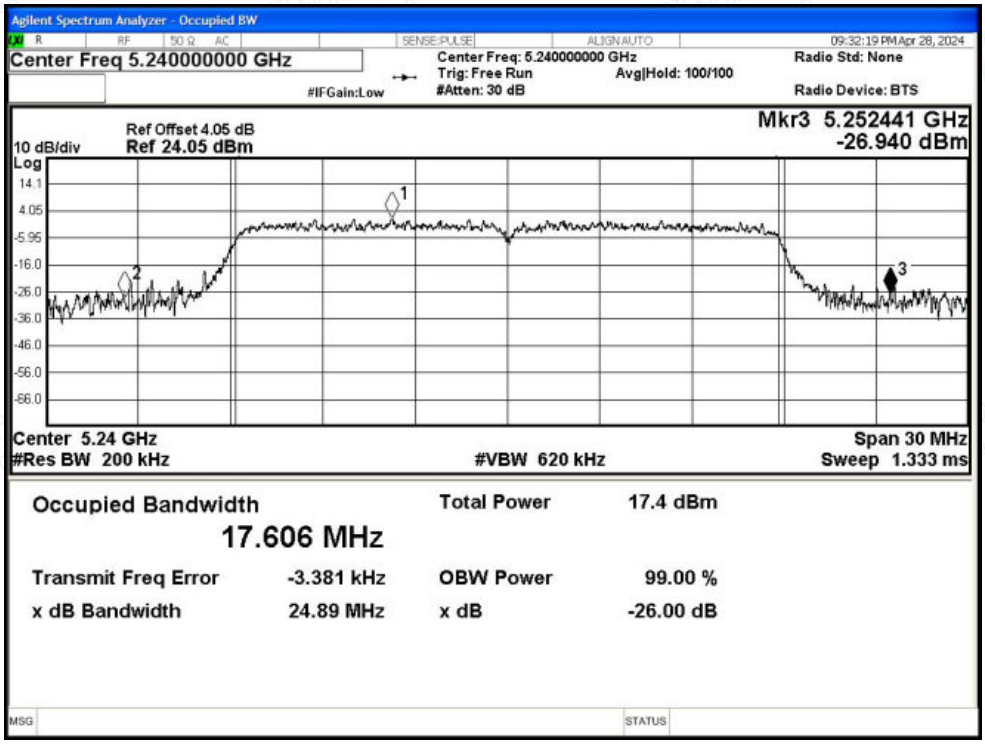
-26dB Bandwidth NVNT ac20 5180MHz Ant1



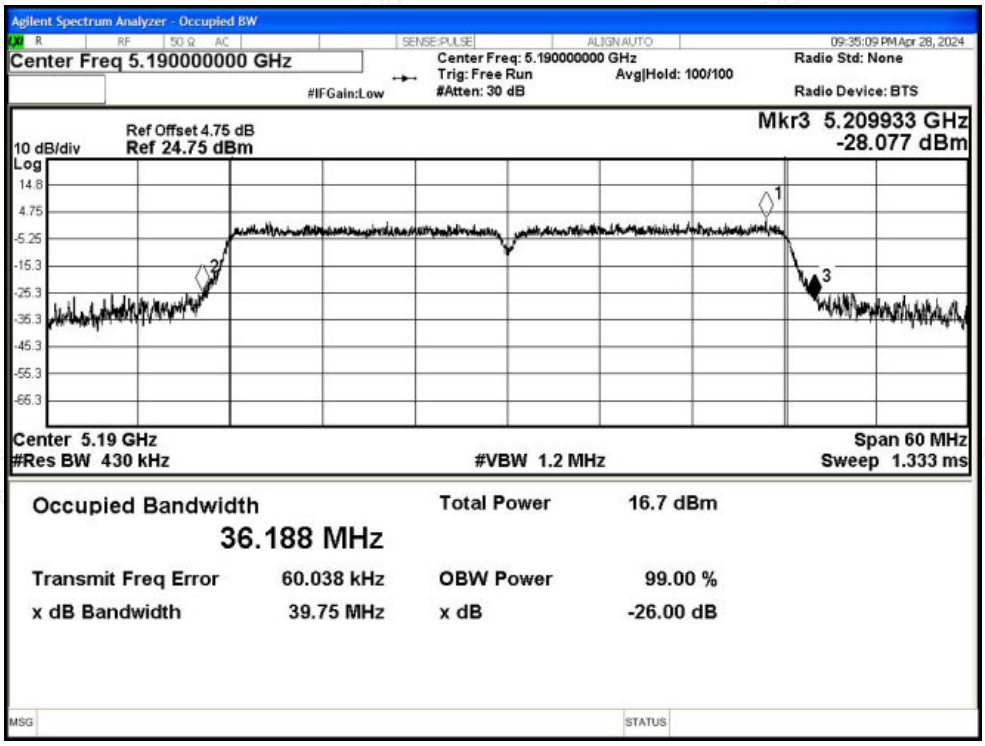
-26dB Bandwidth NVNT ac20 5200MHz Ant1



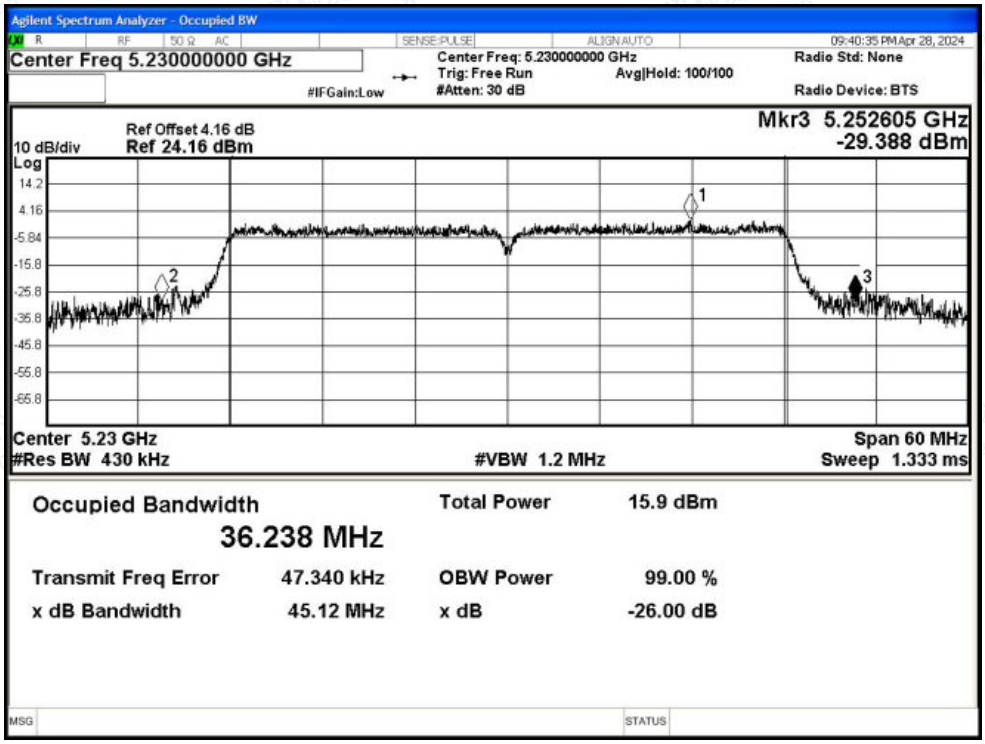
-26dB Bandwidth NVNT ac20 5240MHz Ant1



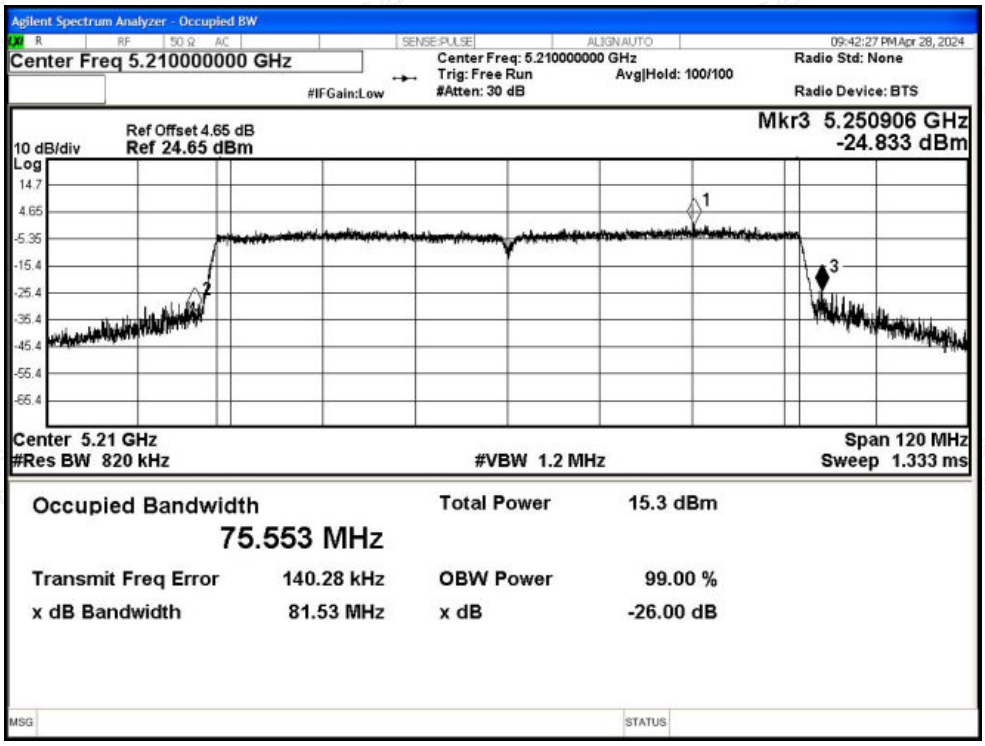
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



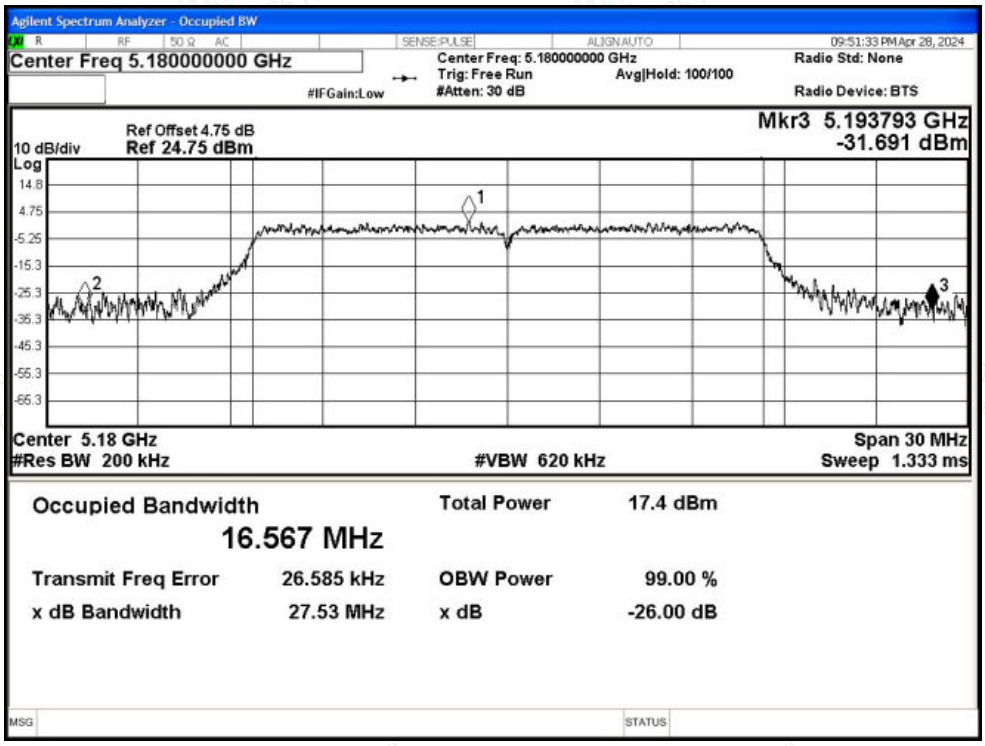
-26dB Bandwidth NVNT ac80 5210MHz Ant1



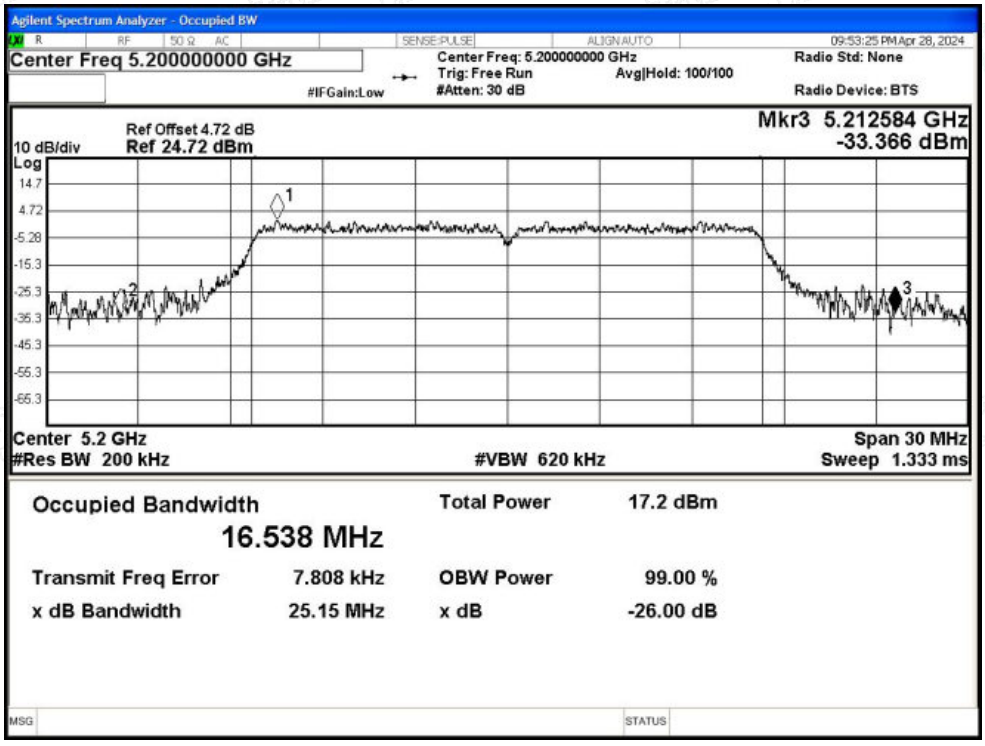
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	27.533	---	Pass
NVNT	a	5200	Ant2	25.152	---	Pass
NVNT	a	5240	Ant2	24.787	---	Pass
NVNT	n20	5180	Ant2	27.03	---	Pass
NVNT	n20	5200	Ant2	24.951	---	Pass
NVNT	n20	5240	Ant2	27.914	---	Pass
NVNT	n40	5190	Ant2	40.374	---	Pass
NVNT	n40	5230	Ant2	43.262	---	Pass
NVNT	ac20	5180	Ant2	24.665	---	Pass
NVNT	ac20	5200	Ant2	26.227	---	Pass
NVNT	ac20	5240	Ant2	26.129	---	Pass
NVNT	ac40	5190	Ant2	54.972	---	Pass
NVNT	ac40	5230	Ant2	45.087	---	Pass
NVNT	ac80	5210	Ant2	85.323	---	Pass

Test Graphs

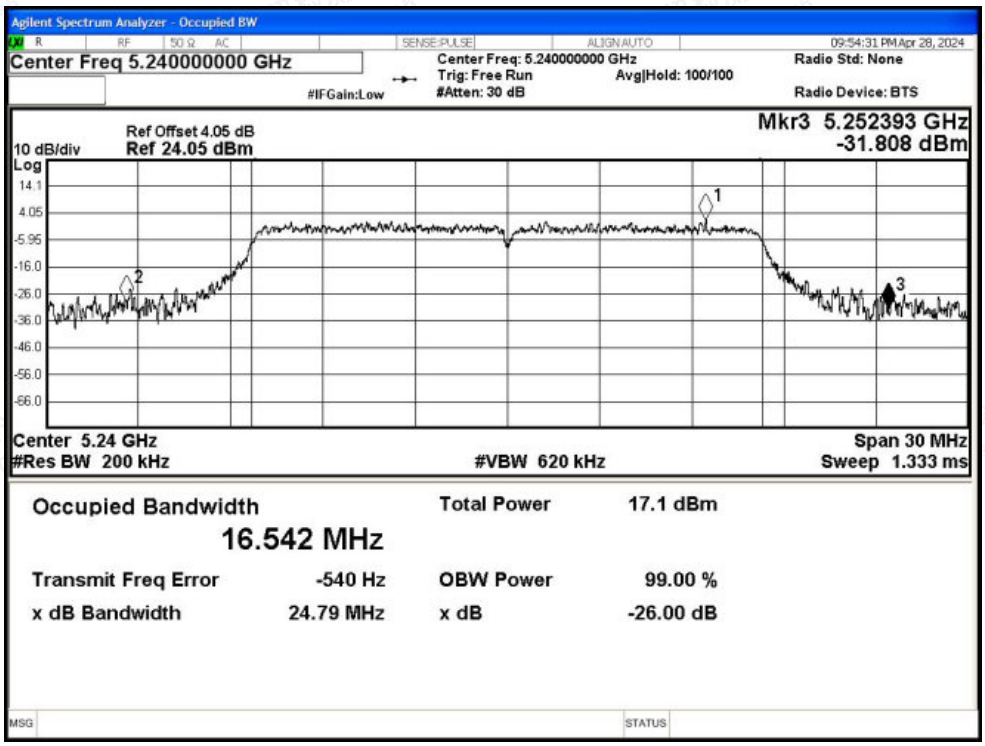
-26dB Bandwidth NVNT a 5180MHz Ant2



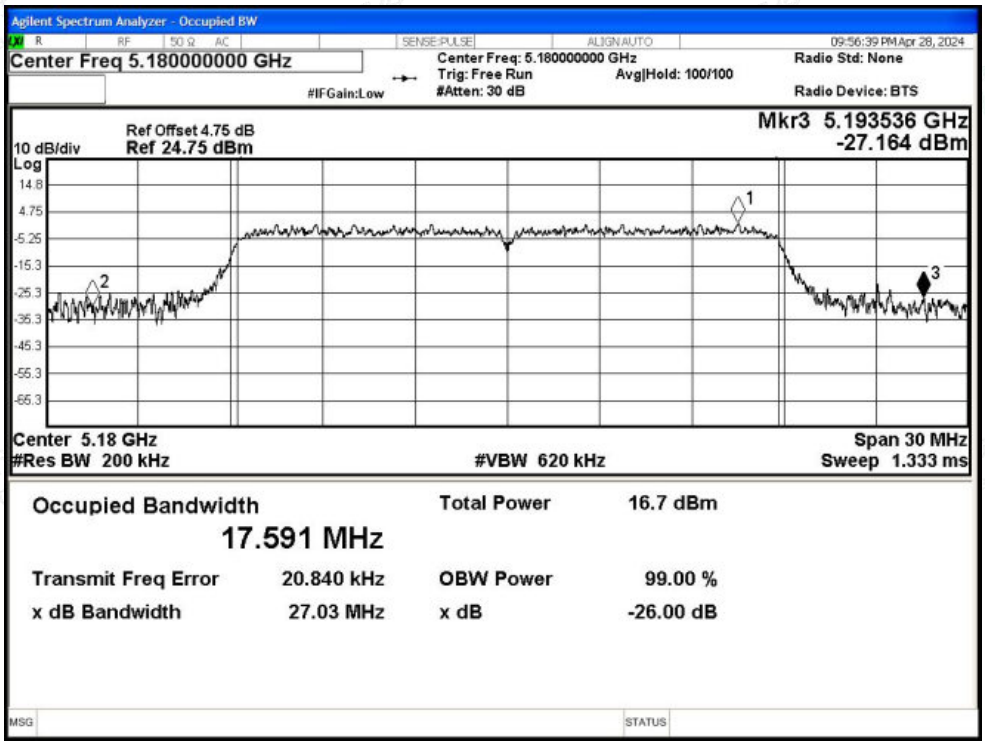
-26dB Bandwidth NVNT a 5200MHz Ant2



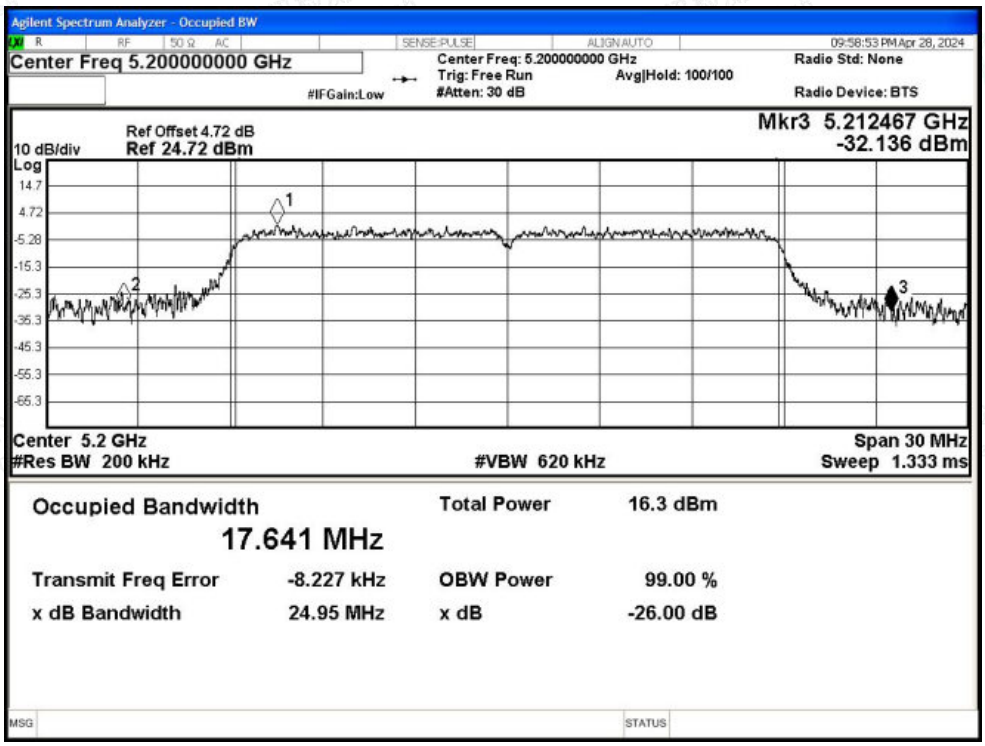
-26dB Bandwidth NVNT a 5240MHz Ant2



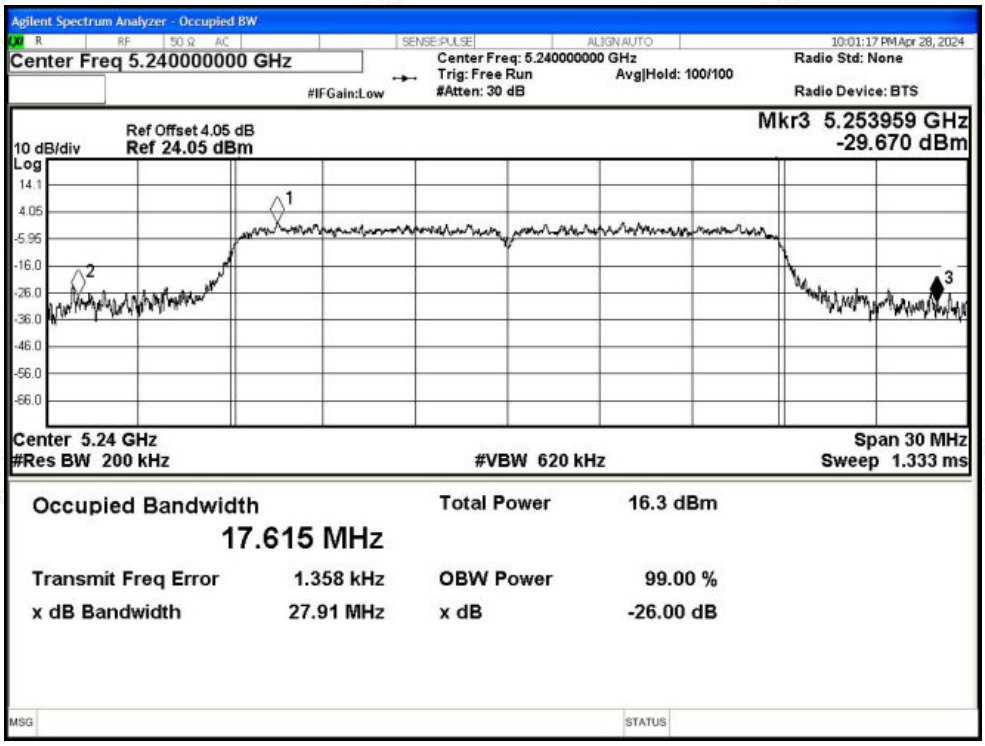
-26dB Bandwidth NVNT n20 5180MHz Ant2



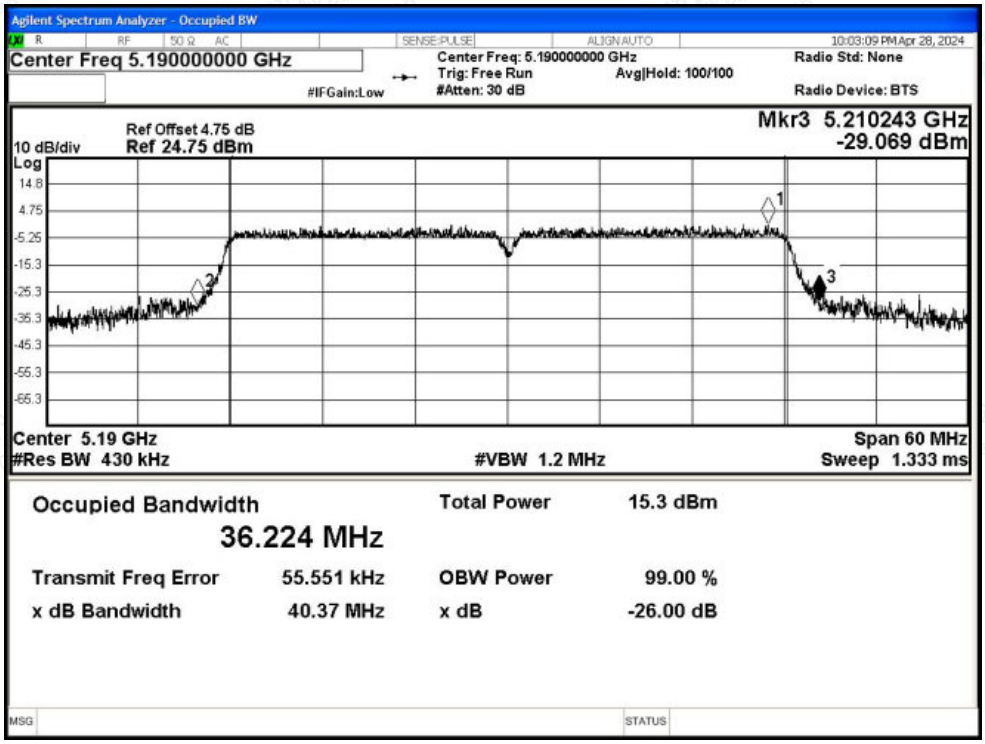
-26dB Bandwidth NVNT n20 5200MHz Ant2



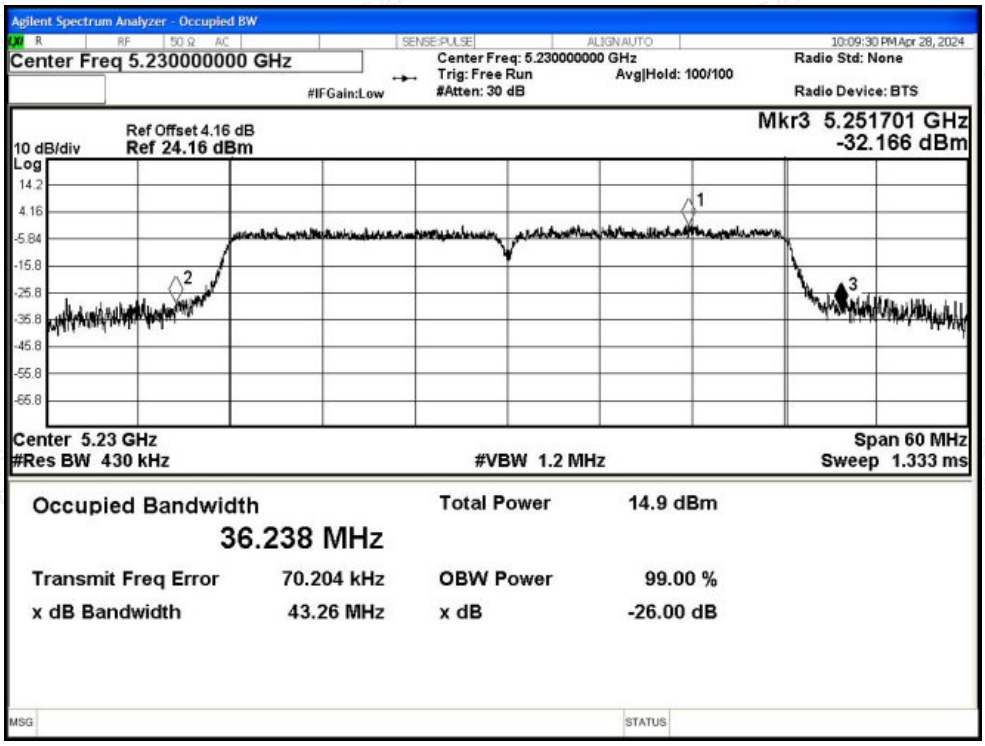
-26dB Bandwidth NVNT n20 5240MHz Ant2



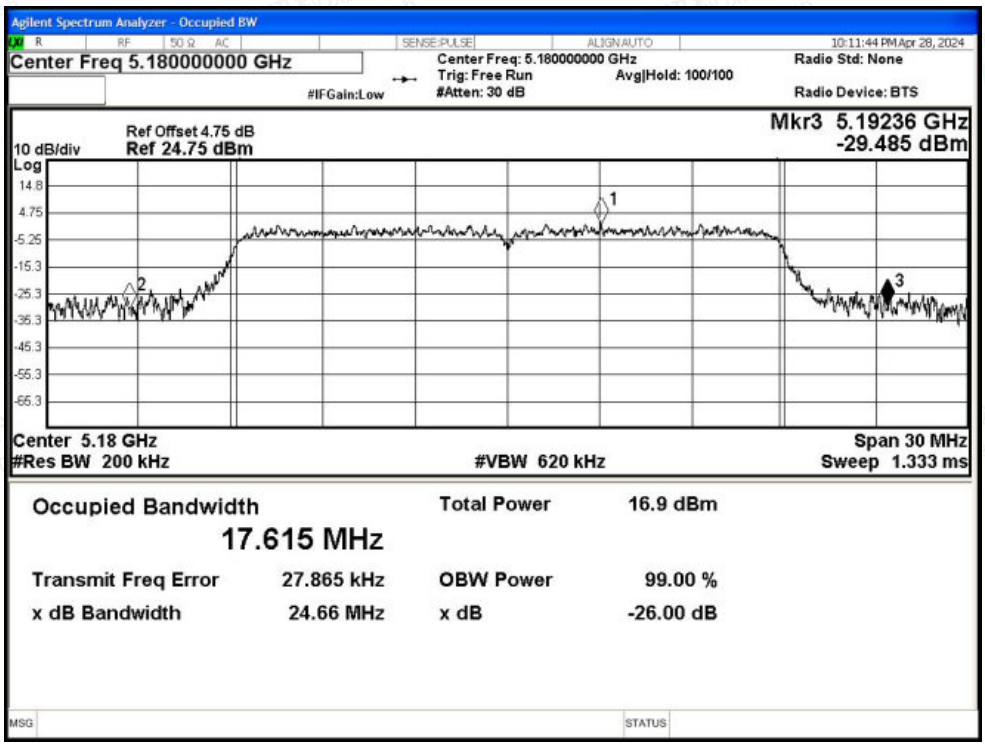
-26dB Bandwidth NVNT n40 5190MHz Ant2



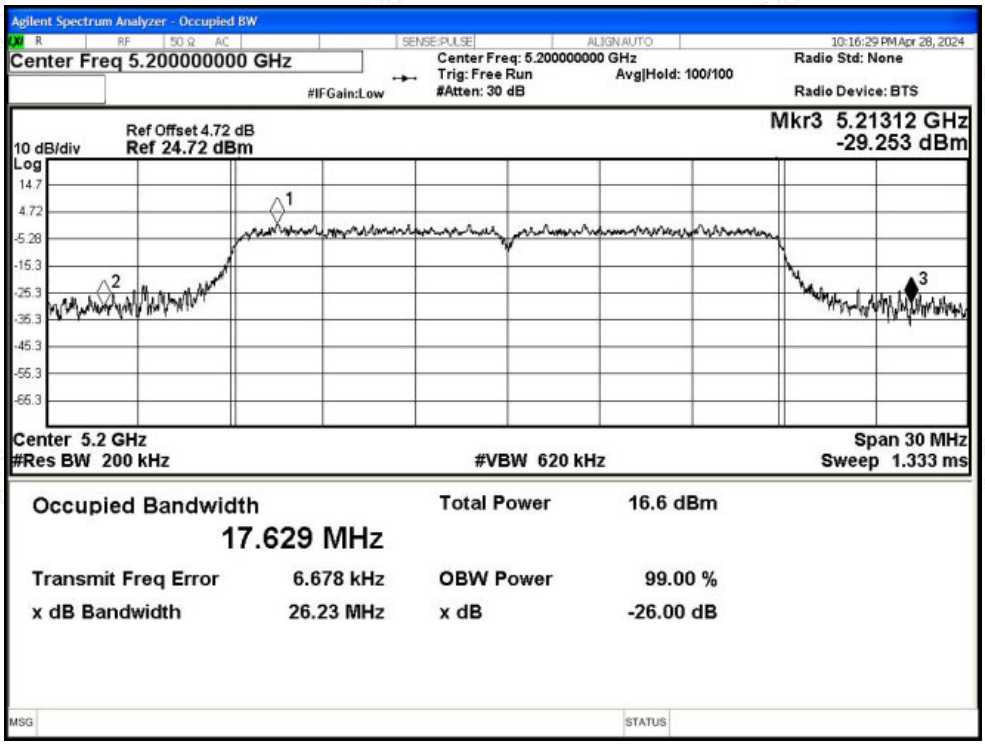
-26dB Bandwidth NVNT n40 5230MHz Ant2



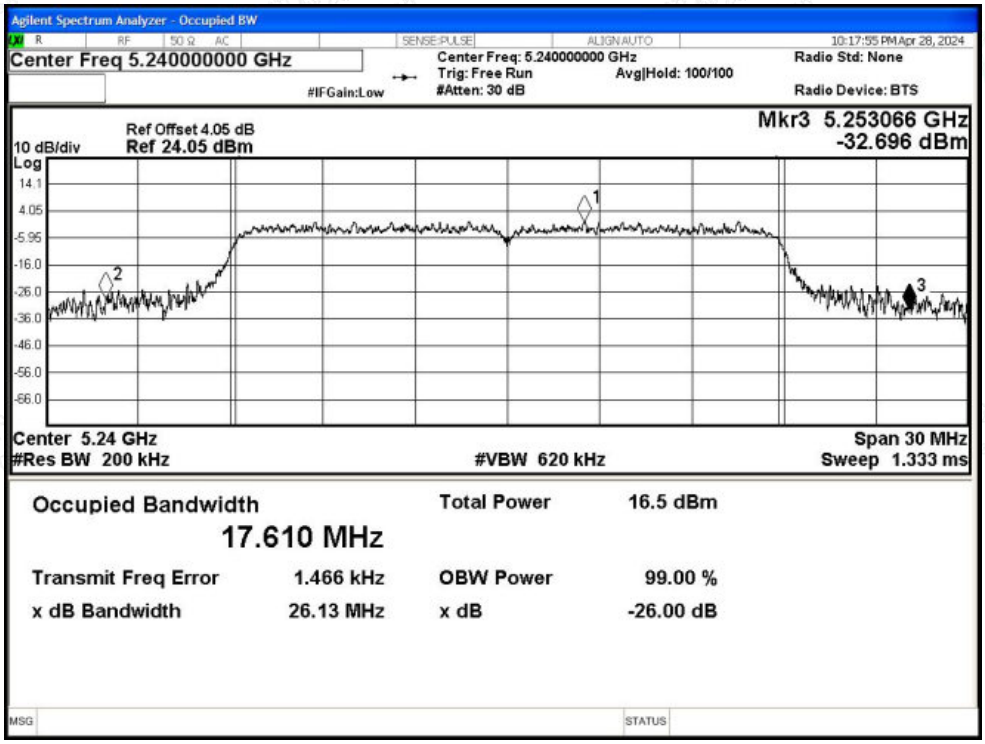
-26dB Bandwidth NVNT ac20 5180MHz Ant2



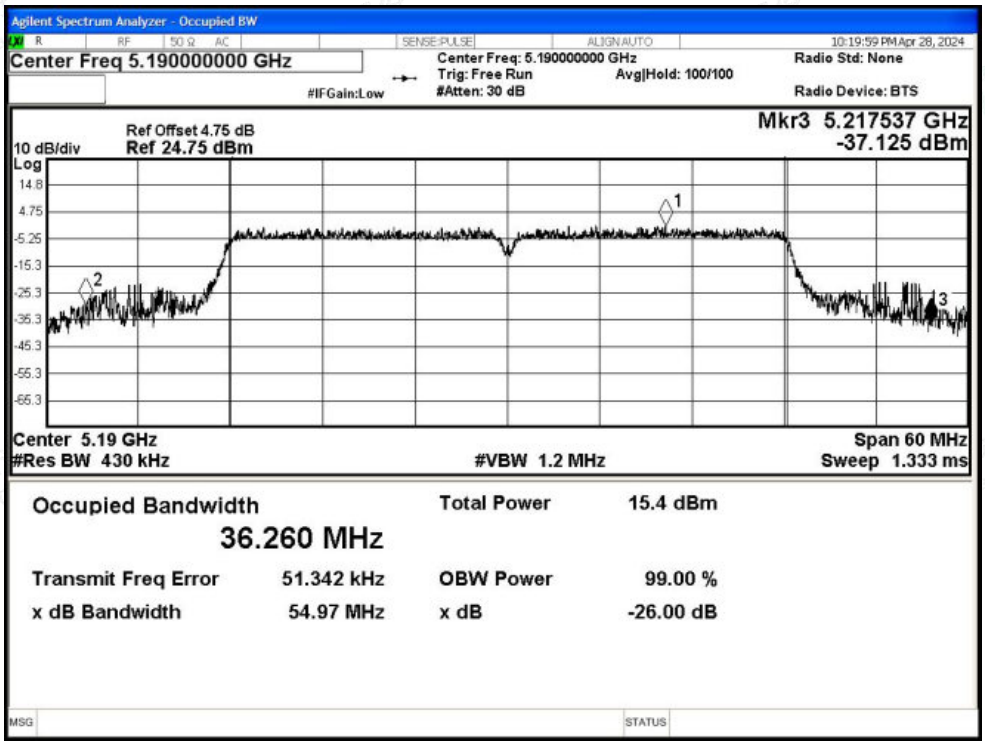
-26dB Bandwidth NVNT ac20 5200MHz Ant2



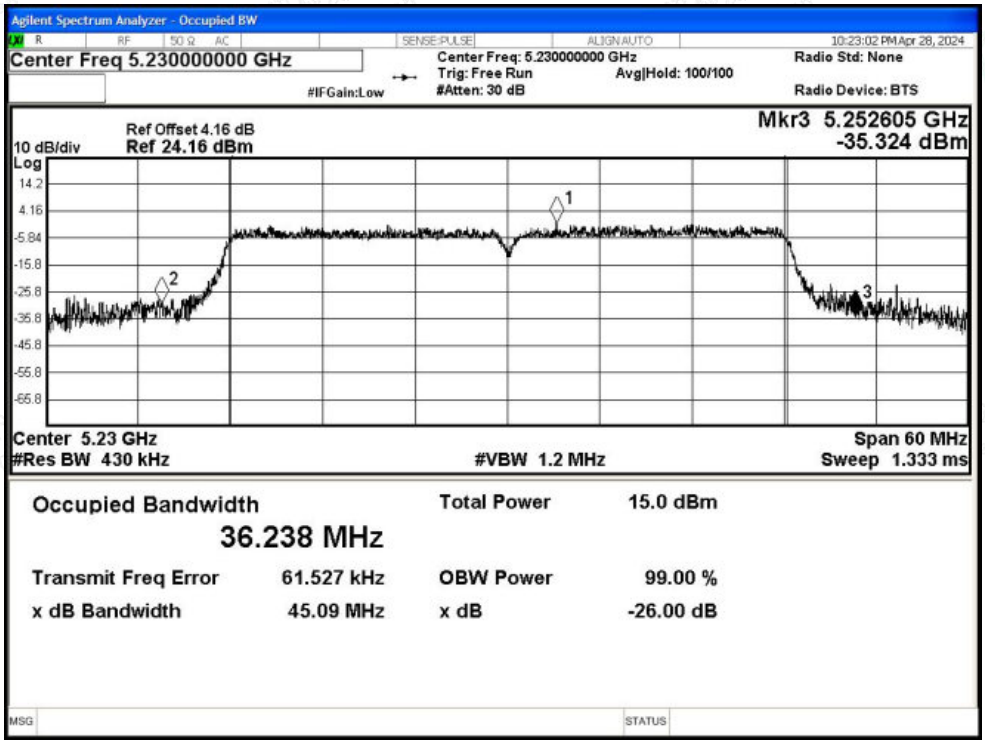
-26dB Bandwidth NVNT ac20 5240MHz Ant2



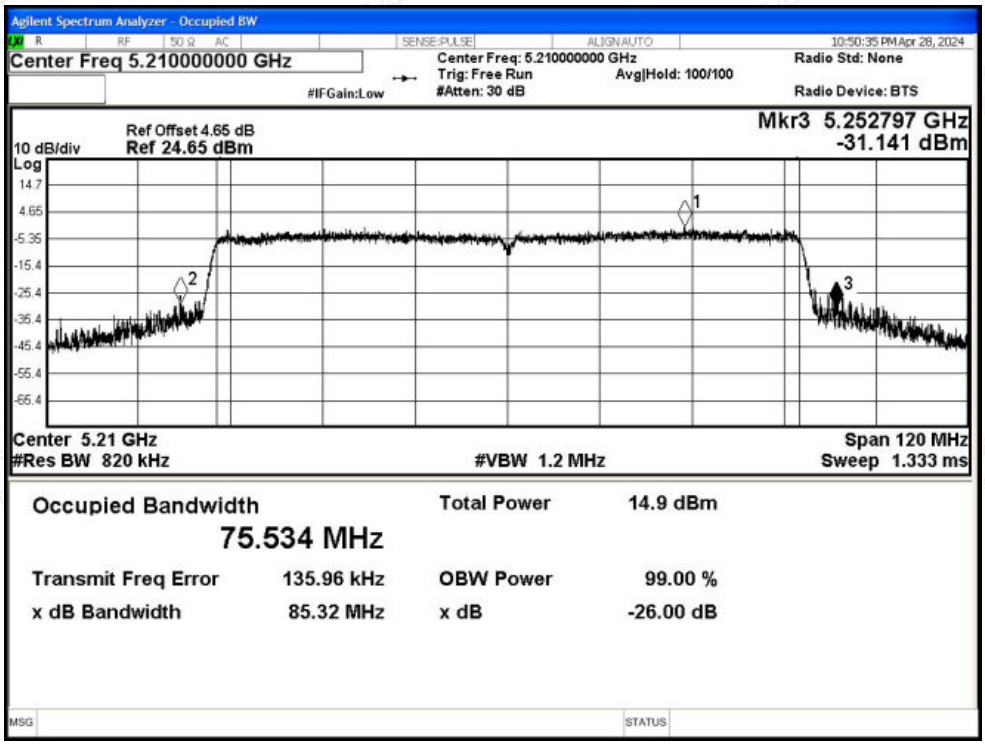
-26dB Bandwidth NVNT ac40 5190MHz Ant2



-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2



B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.57	0.24	12.81	24	Pass
NVNT	a	5200	Ant1	12.24	0.24	12.48	24	Pass
NVNT	a	5240	Ant1	12.19	0.24	12.43	24	Pass
NVNT	n20	5180	Ant1	11.89	0.28	12.17	24	Pass
NVNT	n20	5200	Ant1	11.67	0.28	11.95	24	Pass
NVNT	n20	5240	Ant1	11.19	0.28	11.47	24	Pass
NVNT	n40	5190	Ant1	10.86	0.12	10.98	24	Pass
NVNT	n40	5230	Ant1	10.05	0.12	10.17	24	Pass
NVNT	ac20	5180	Ant1	11.97	0.28	12.25	24	Pass
NVNT	ac20	5200	Ant1	11.71	0.28	11.99	24	Pass
NVNT	ac20	5240	Ant1	11.66	0.28	11.94	24	Pass
NVNT	ac40	5190	Ant1	10.87	0.12	10.99	24	Pass
NVNT	ac40	5230	Ant1	10.05	0.12	10.17	24	Pass
NVNT	ac80	5210	Ant1	9.9	0.25	10.15	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	11.75	0.24	11.99	24	Pass
NVNT	a	5200	Ant2	11.35	0.24	11.59	24	Pass
NVNT	a	5240	Ant2	11.34	0.24	11.58	24	Pass
NVNT	n20	5180	Ant2	10.92	0.28	11.2	24	Pass
NVNT	n20	5200	Ant2	10.67	0.28	10.95	24	Pass
NVNT	n20	5240	Ant2	10.51	0.28	10.79	24	Pass
NVNT	n40	5190	Ant2	9.27	0.12	9.39	24	Pass
NVNT	n40	5230	Ant2	9.1	0.12	9.22	24	Pass
NVNT	ac20	5180	Ant2	10.97	0.28	11.25	24	Pass
NVNT	ac20	5200	Ant2	10.81	0.28	11.09	24	Pass
NVNT	ac20	5240	Ant2	10.73	0.28	11.01	24	Pass
NVNT	ac40	5190	Ant2	9.24	0.12	9.36	24	Pass
NVNT	ac40	5230	Ant2	9.08	0.12	9.2	24	Pass
NVNT	ac80	5210	Ant2	8.57	0.25	8.82	24	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	12.17	11.2	14.72	24	Pass
NVNT	n20	5200	11.95	10.95	14.49	24	Pass
NVNT	n20	5240	11.47	10.79	14.15	24	Pass
NVNT	n40	5190	10.98	9.39	13.27	24	Pass
NVNT	n40	5230	10.17	9.22	12.73	24	Pass
NVNT	ac20	5180	12.25	11.25	14.79	24	Pass
NVNT	ac20	5200	11.99	11.09	14.57	24	Pass
NVNT	ac20	5240	11.94	11.01	14.51	24	Pass
NVNT	ac40	5190	10.99	9.36	13.26	24	Pass
NVNT	ac40	5230	10.17	9.2	12.72	24	Pass
NVNT	ac80	5210	10.15	8.82	12.55	24	Pass

B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD(dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.93	0.24	2.17	11	Pass
NVNT	a	5200	Ant1	2.58	0.24	2.82	11	Pass
NVNT	a	5240	Ant1	1.66	0.24	1.9	11	Pass
NVNT	n20	5180	Ant1	1.1	0.28	1.38	11	Pass
NVNT	n20	5200	Ant1	1.07	0.28	1.35	11	Pass
NVNT	n20	5240	Ant1	1.02	0.28	1.3	11	Pass
NVNT	n40	5190	Ant1	-2.89	0.12	-2.77	11	Pass
NVNT	n40	5230	Ant1	-3.45	0.12	-3.33	11	Pass
NVNT	ac20	5180	Ant1	1.43	0.28	1.71	11	Pass
NVNT	ac20	5200	Ant1	0.77	0.28	1.05	11	Pass
NVNT	ac20	5240	Ant1	1.39	0.28	1.67	11	Pass
NVNT	ac40	5190	Ant1	-2.47	0.12	-2.35	11	Pass
NVNT	ac40	5230	Ant1	-3.54	0.12	-3.42	11	Pass
NVNT	ac80	5210	Ant1	-7.44	0.25	-7.19	11	Pass

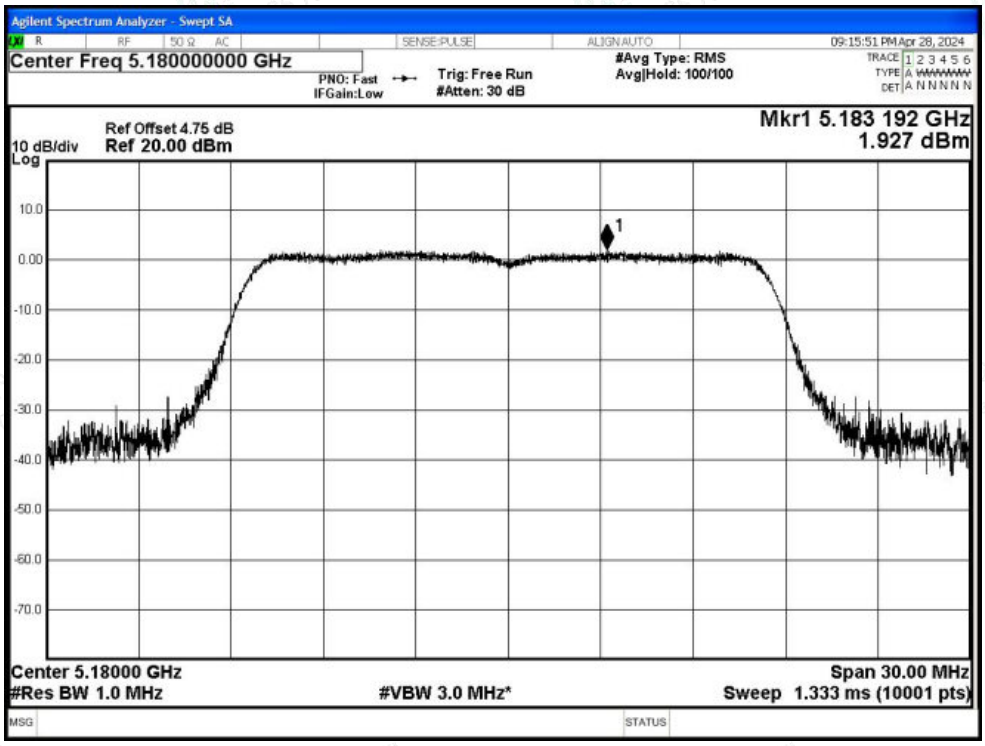
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	1.07	0.24	1.31	11	Pass
NVNT	a	5200	Ant2	0.67	0.24	0.91	11	Pass
NVNT	a	5240	Ant2	0.86	0.24	1.1	11	Pass
NVNT	n20	5180	Ant2	0.13	0.28	0.41	11	Pass
NVNT	n20	5200	Ant2	0.12	0.28	0.4	11	Pass
NVNT	n20	5240	Ant2	-0.13	0.28	0.15	11	Pass
NVNT	n40	5190	Ant2	-4.32	0.12	-4.2	11	Pass
NVNT	n40	5230	Ant2	-4.43	0.12	-4.31	11	Pass
NVNT	ac20	5180	Ant2	0.25	0.28	0.53	11	Pass
NVNT	ac20	5200	Ant2	0.3	0.28	0.58	11	Pass
NVNT	ac20	5240	Ant2	0.18	0.28	0.46	11	Pass
NVNT	ac40	5190	Ant2	-4.5	0.12	-4.38	11	Pass
NVNT	ac40	5230	Ant2	-4.41	0.12	-4.29	11	Pass
NVNT	ac80	5210	Ant2	-7.95	0.25	-7.7	11	Pass

MIMO

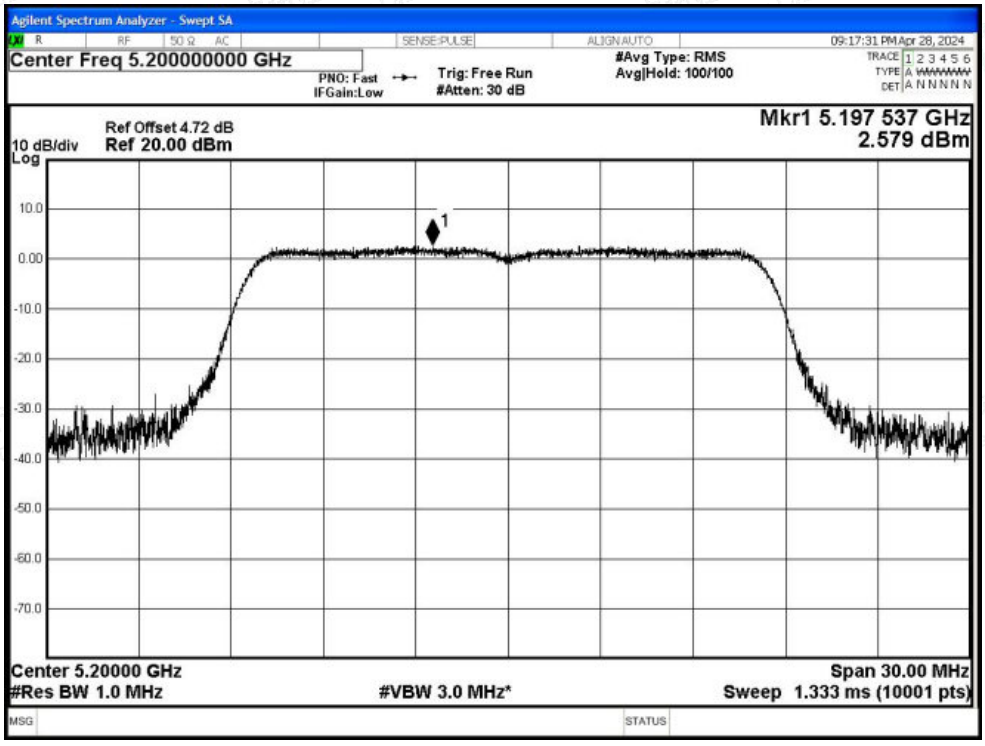
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	1.38	0.41	3.93	11	Pass
NVNT	n20	5200	1.35	0.4	3.91	11	Pass
NVNT	n20	5240	1.3	0.15	3.77	11	Pass
NVNT	n40	5190	-2.77	-4.2	-0.42	11	Pass
NVNT	n40	5230	-3.33	-4.31	-0.78	11	Pass
NVNT	ac20	5180	1.71	0.53	4.17	11	Pass
NVNT	ac20	5200	1.05	0.58	3.83	11	Pass
NVNT	ac20	5240	1.67	0.46	4.12	11	Pass
NVNT	ac40	5190	-2.35	-4.38	-0.24	11	Pass
NVNT	ac40	5230	-3.42	-4.29	-0.82	11	Pass
NVNT	ac80	5210	-7.19	-7.7	-4.43	11	Pass

Test Graphs

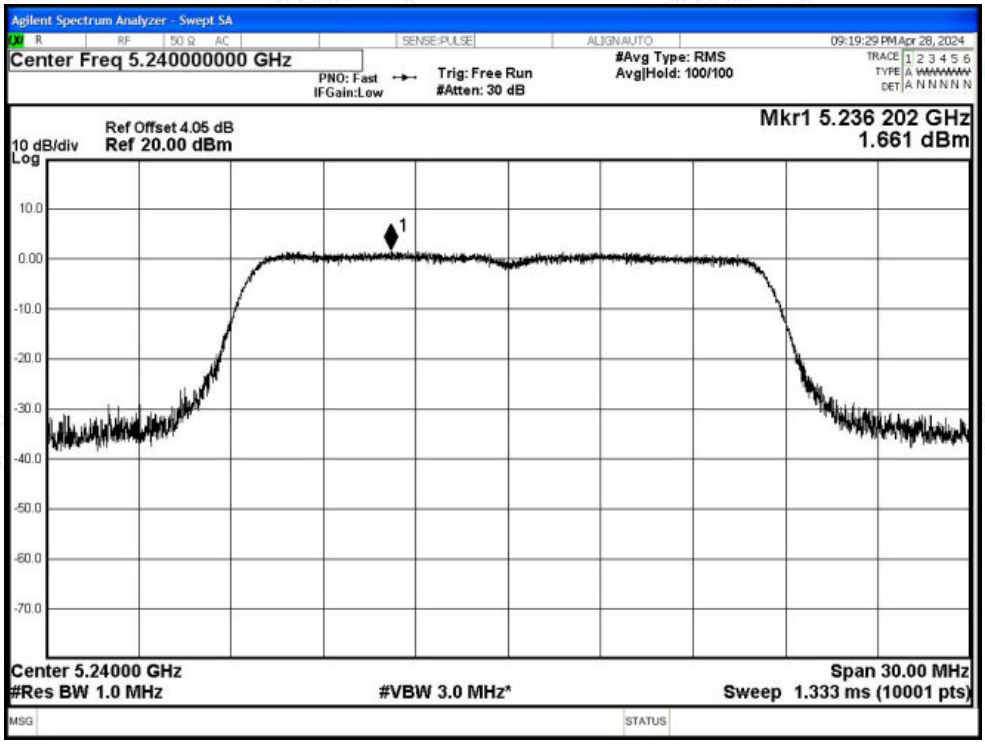
PSD NVNT a 5180MHz Ant1



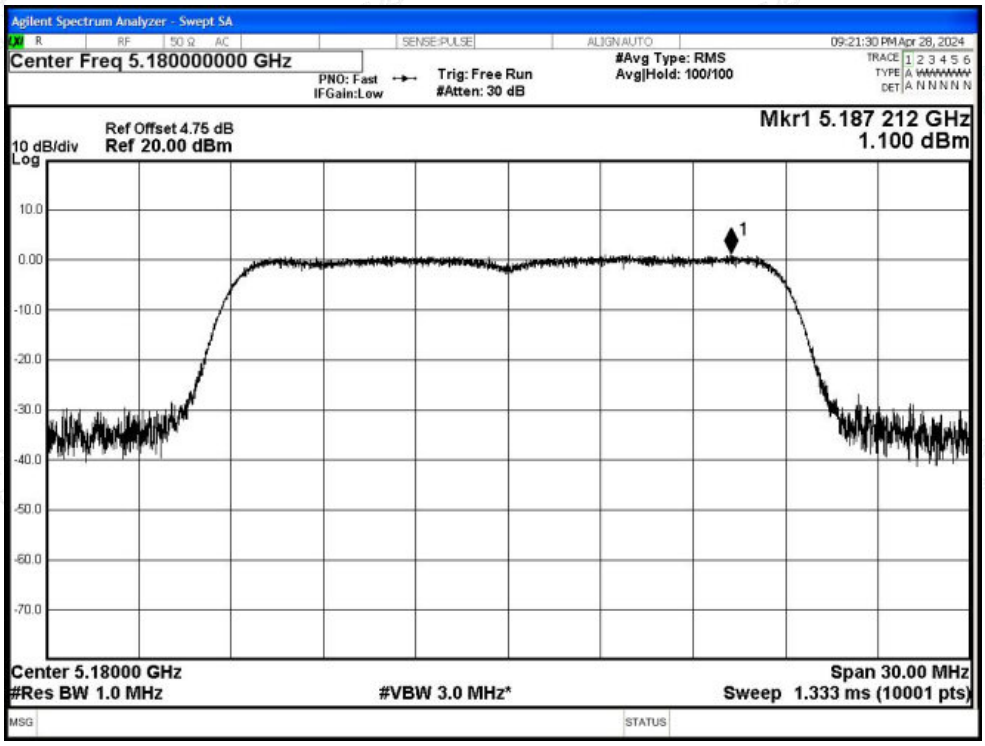
PSD NVNT a 5200MHz Ant1



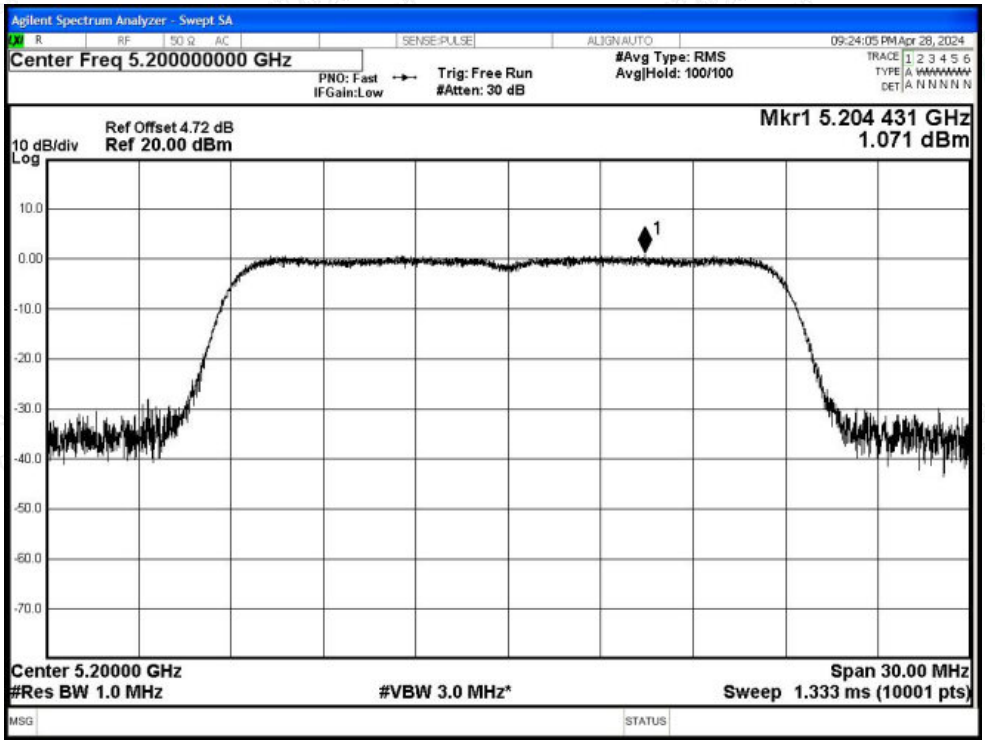
PSD NVNT a 5240MHz Ant1



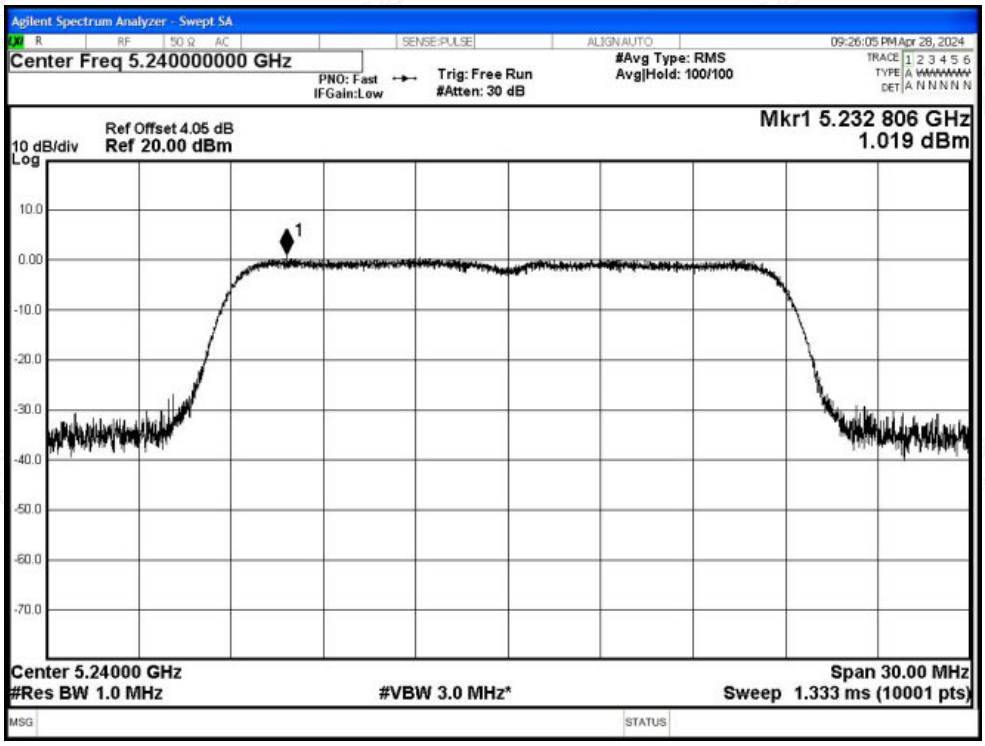
PSD NVNT n20 5180MHz Ant1



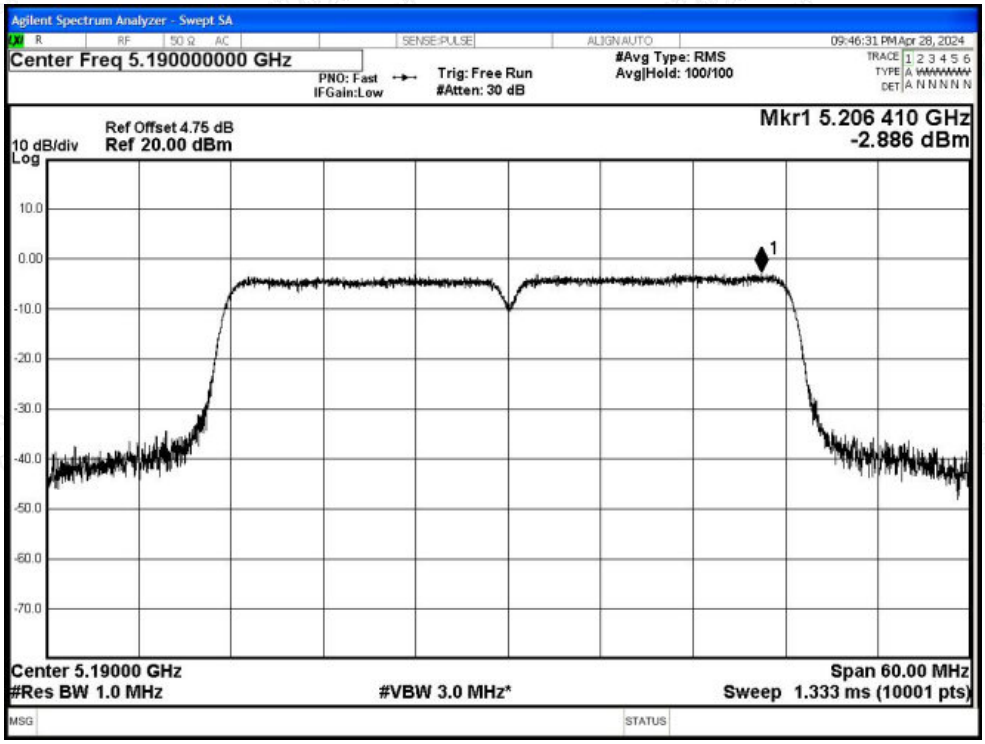
PSD NVNT n20 5200MHz Ant1



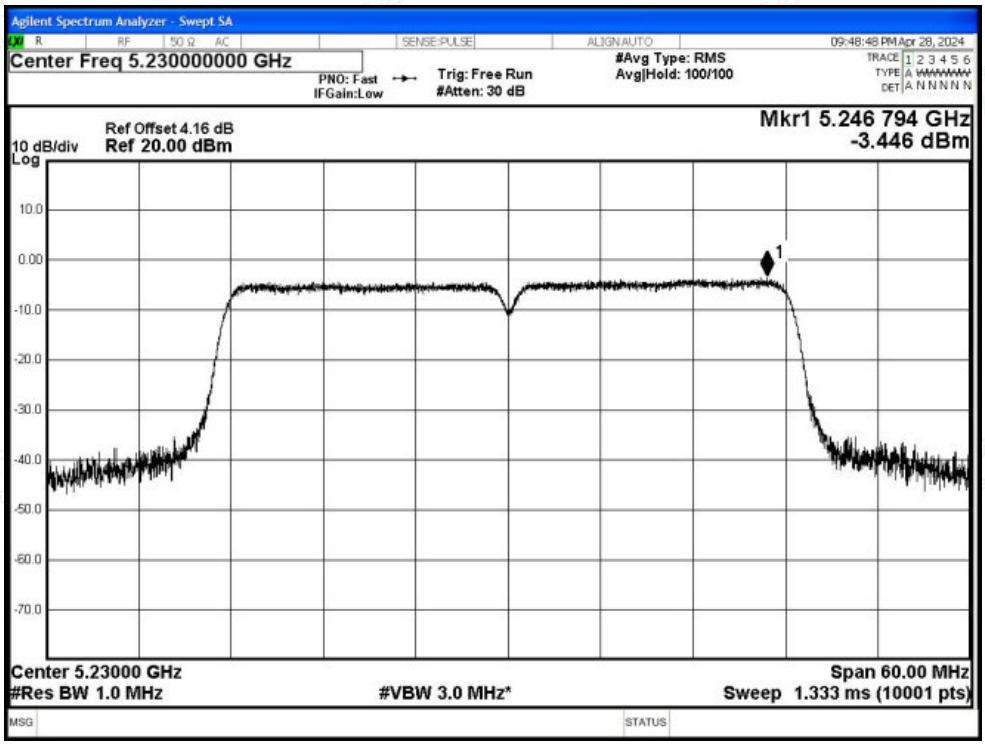
PSD NVNT n20 5240MHz Ant1



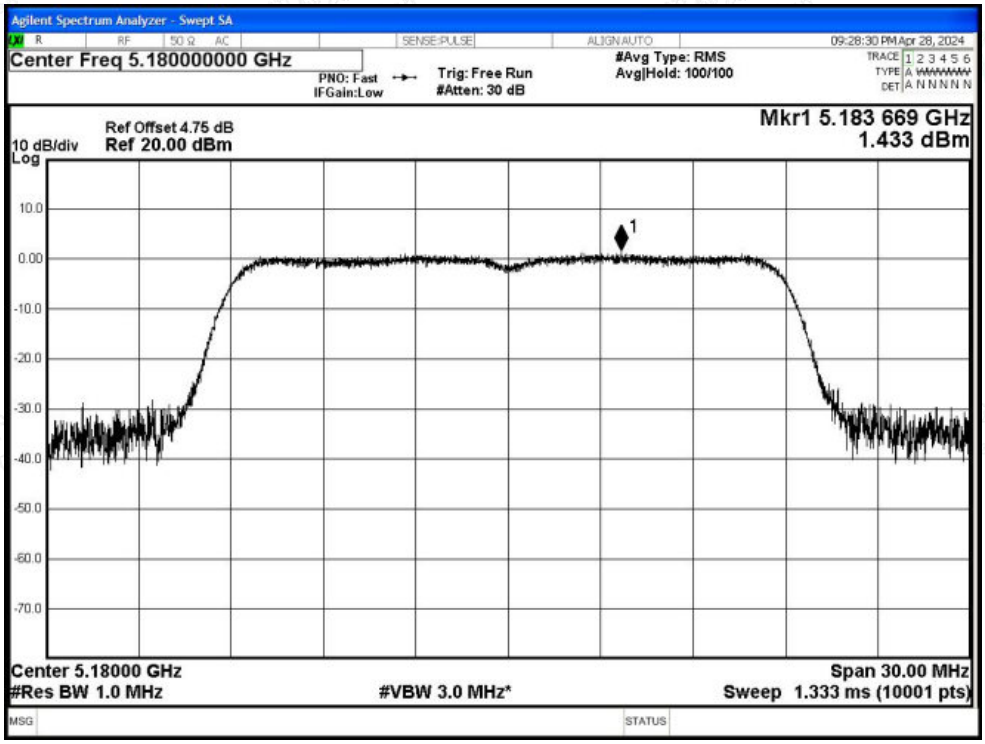
PSD NVNT n40 5190MHz Ant1



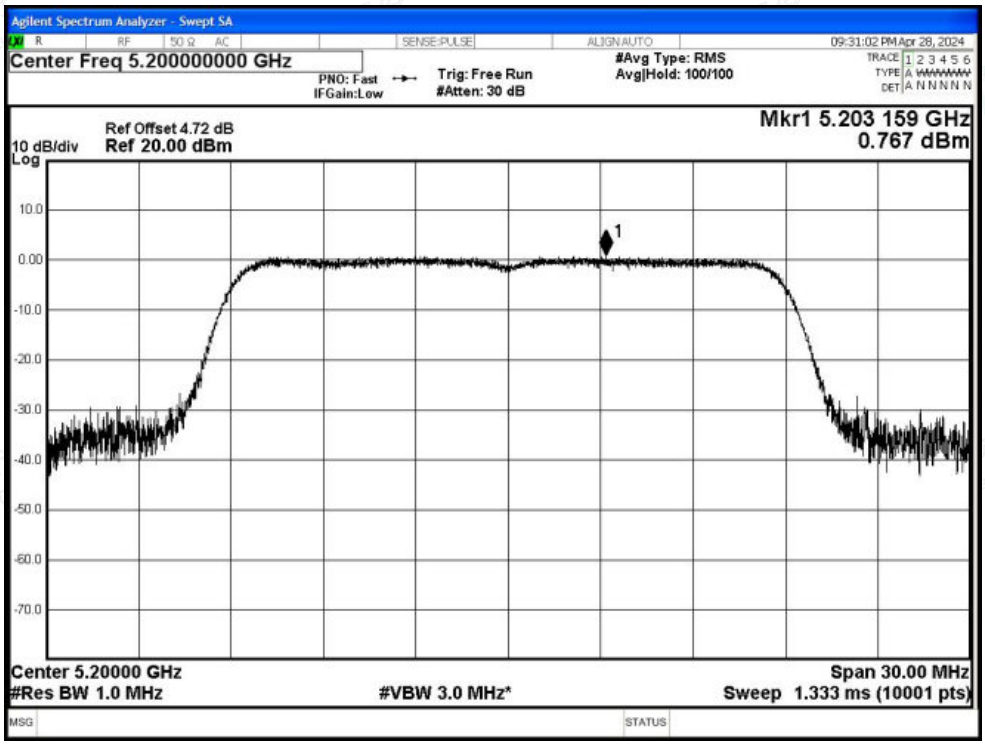
PSD NVNT n40 5230MHz Ant1



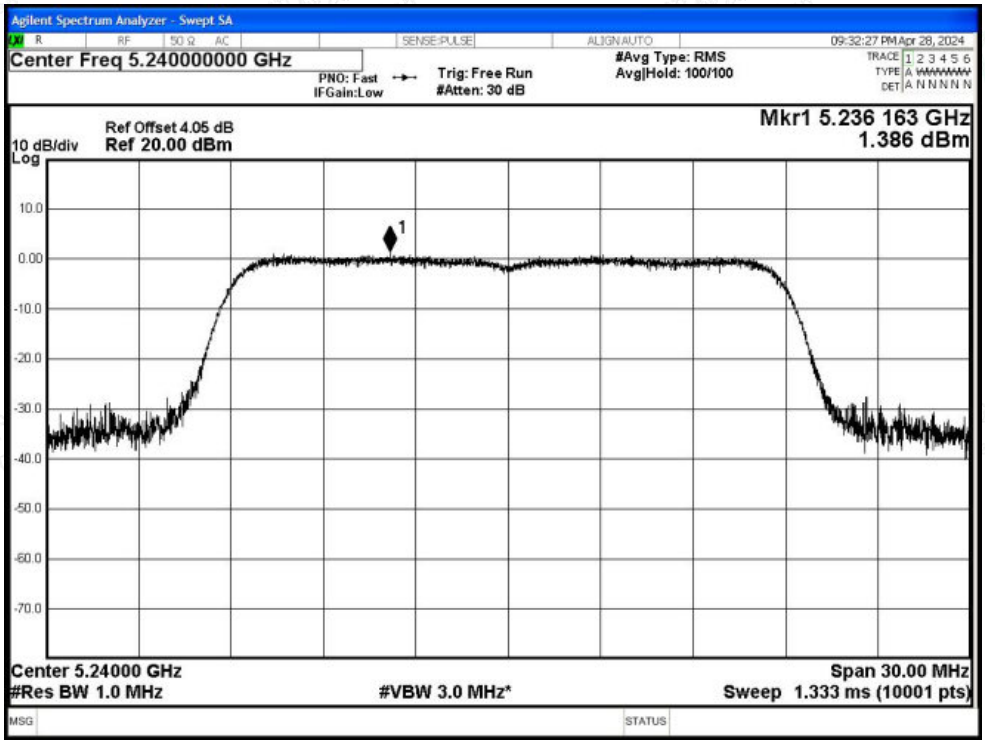
PSD NVNT ac20 5180MHz Ant1



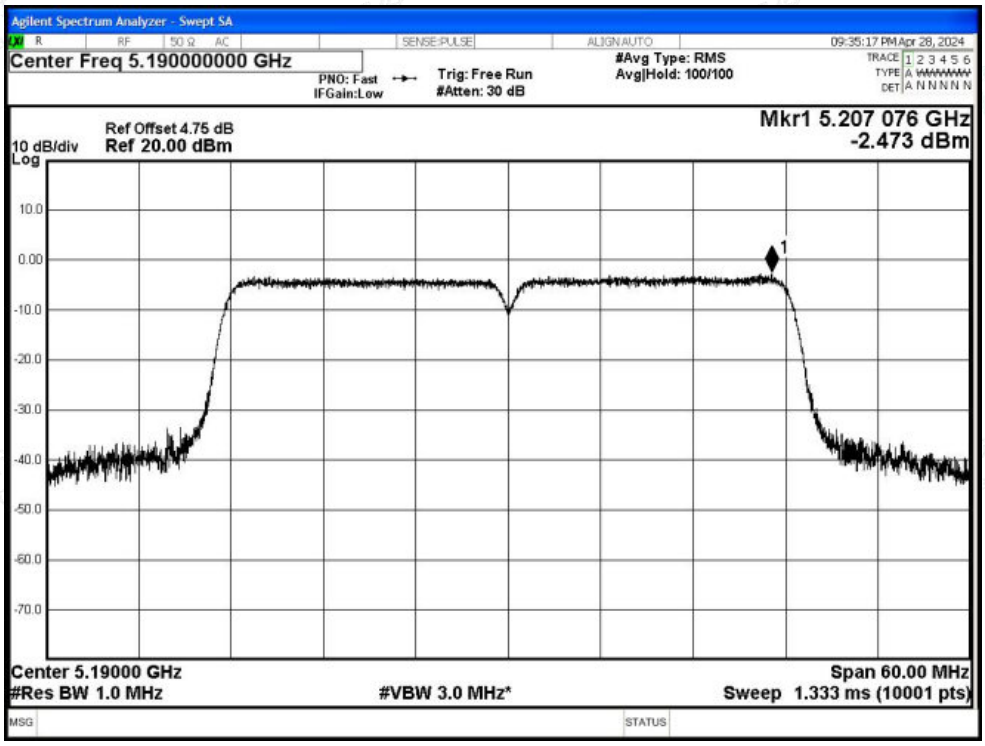
PSD NVNT ac20 5200MHz Ant1



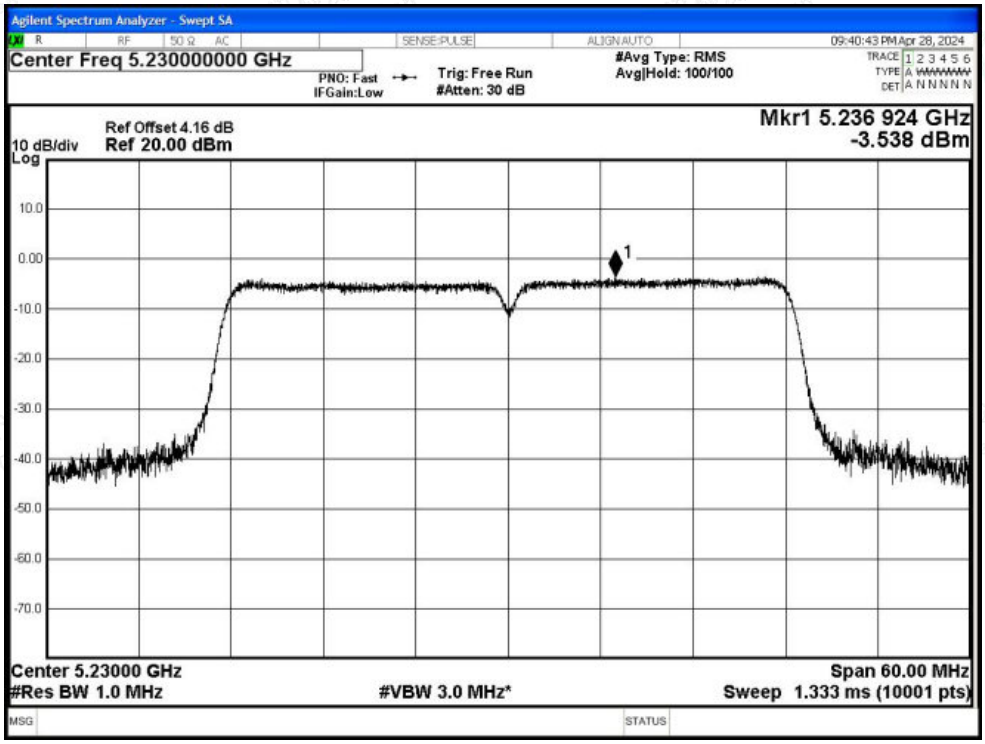
PSD NVNT ac20 5240MHz Ant1



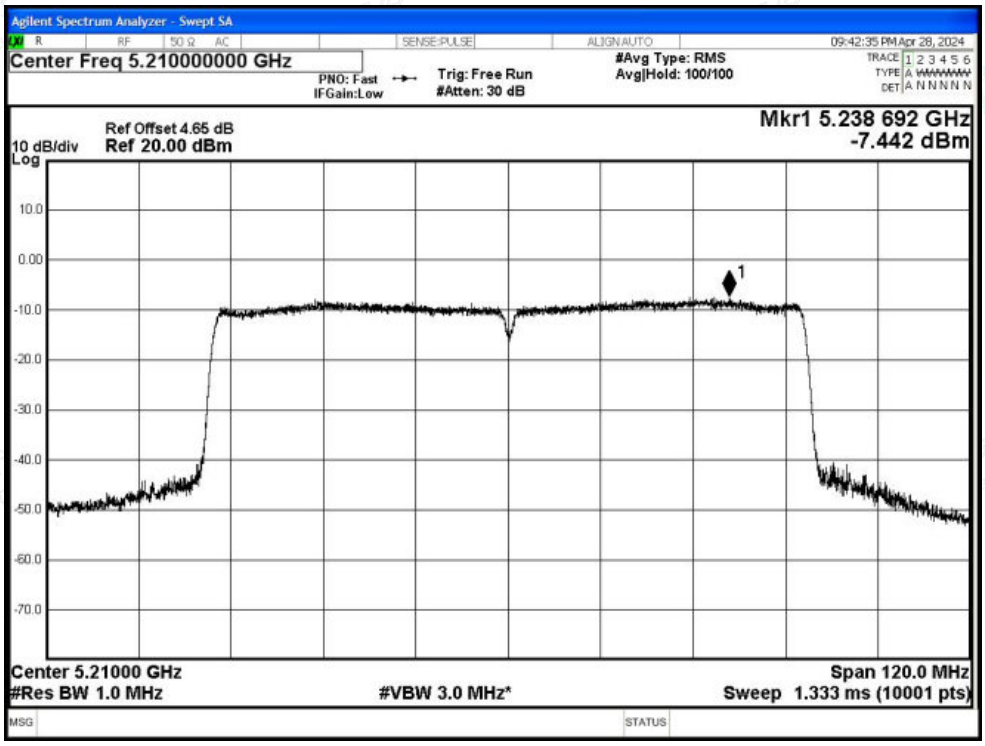
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

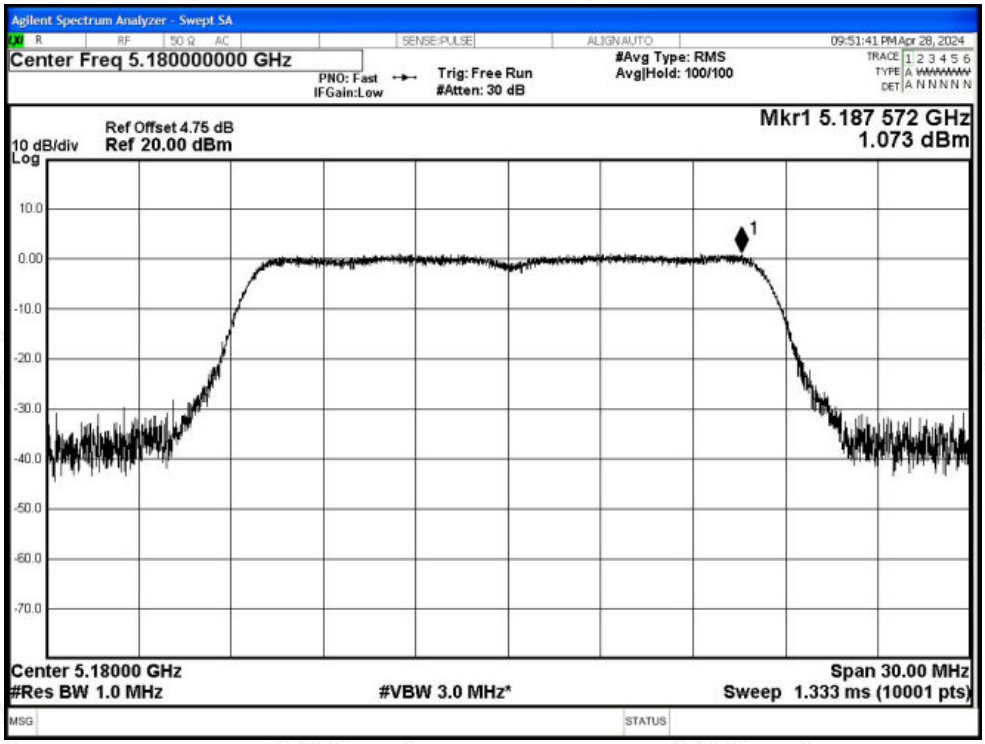


PSD NVNT ac80 5210MHz Ant1

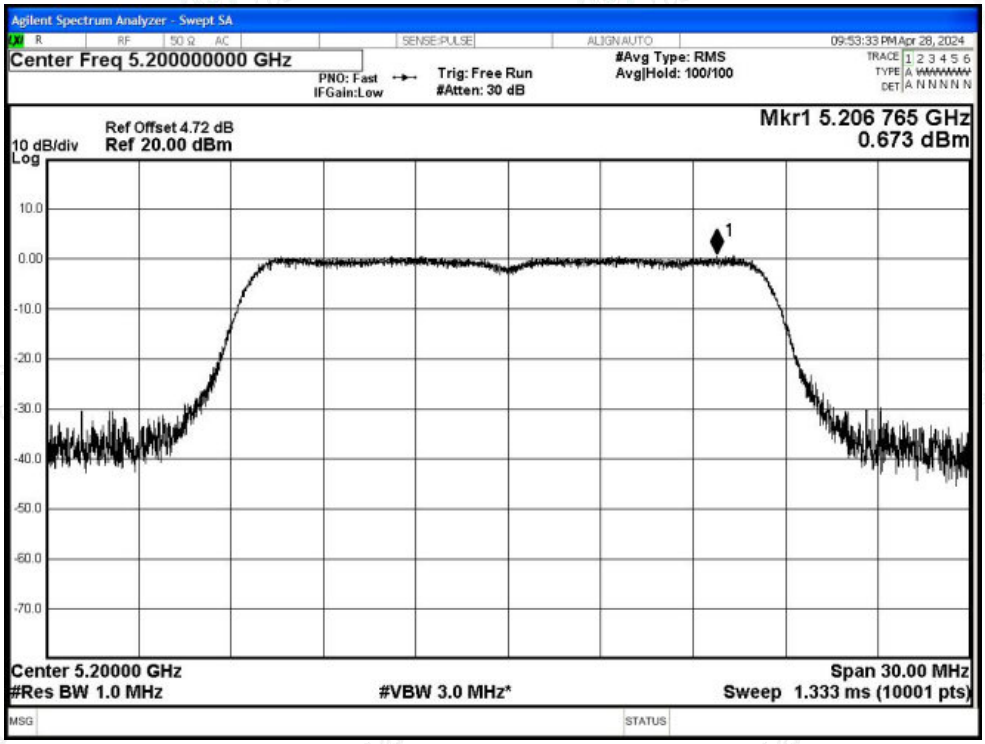


Test Graphs

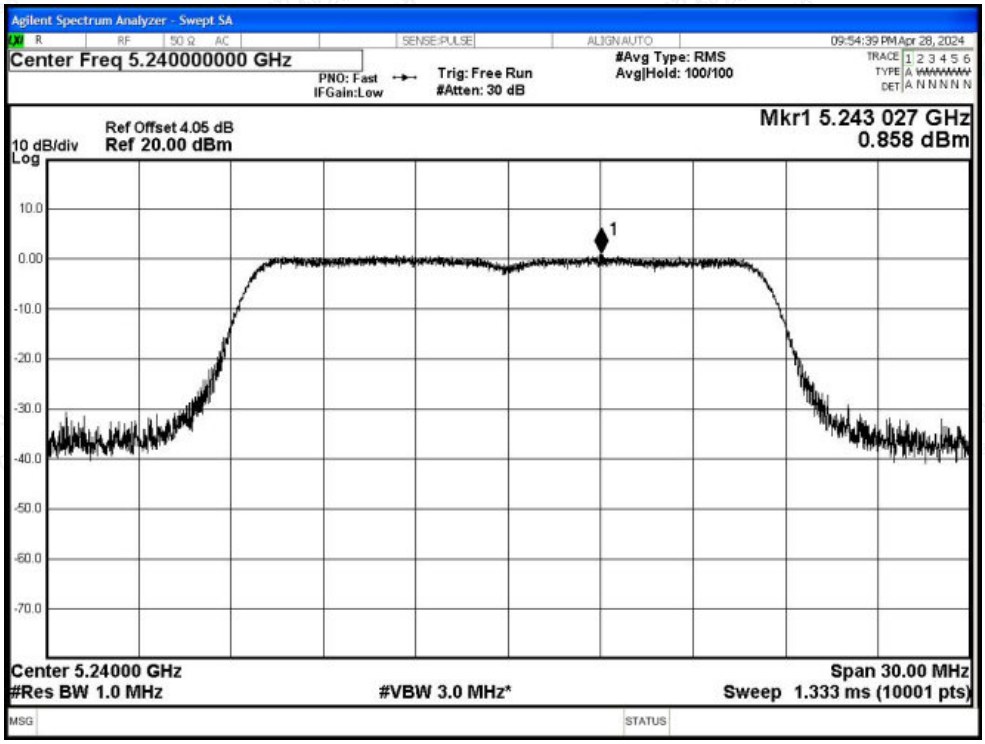
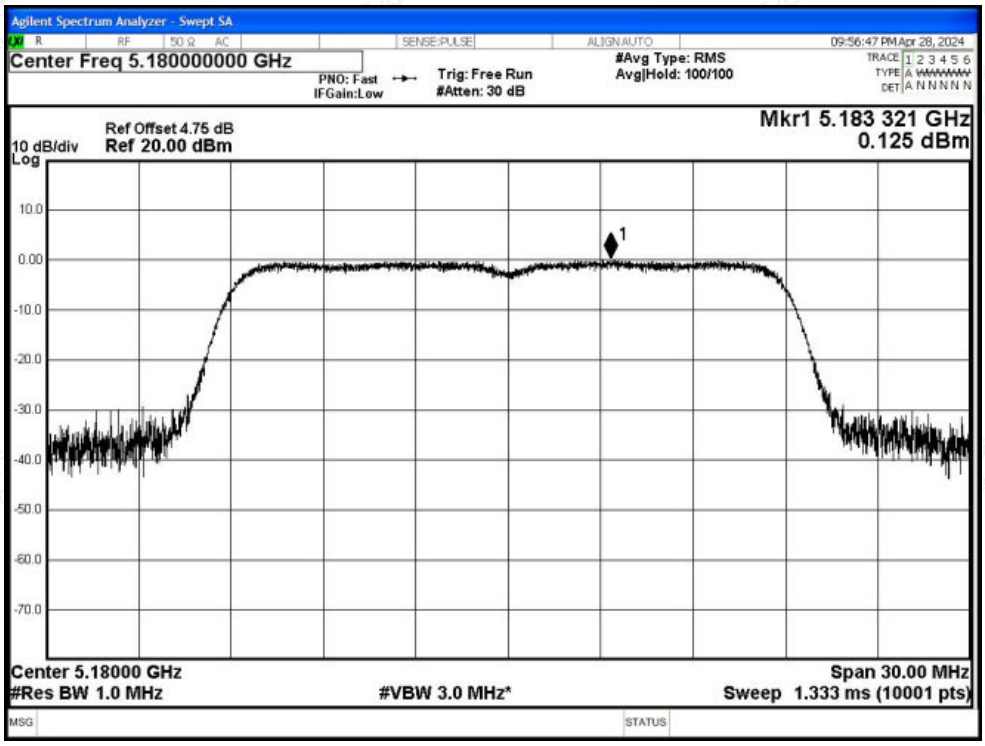
PSD NVNT a 5180MHz Ant2



PSD NVNT a 5200MHz Ant2



PSD NVNT a 5240MHz Ant2



PSD NVNT n20 5180MHz Ant2