



Appendix B

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: 1200Mbps Dual-band WiFi Repeater

Test Model: 2505011

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

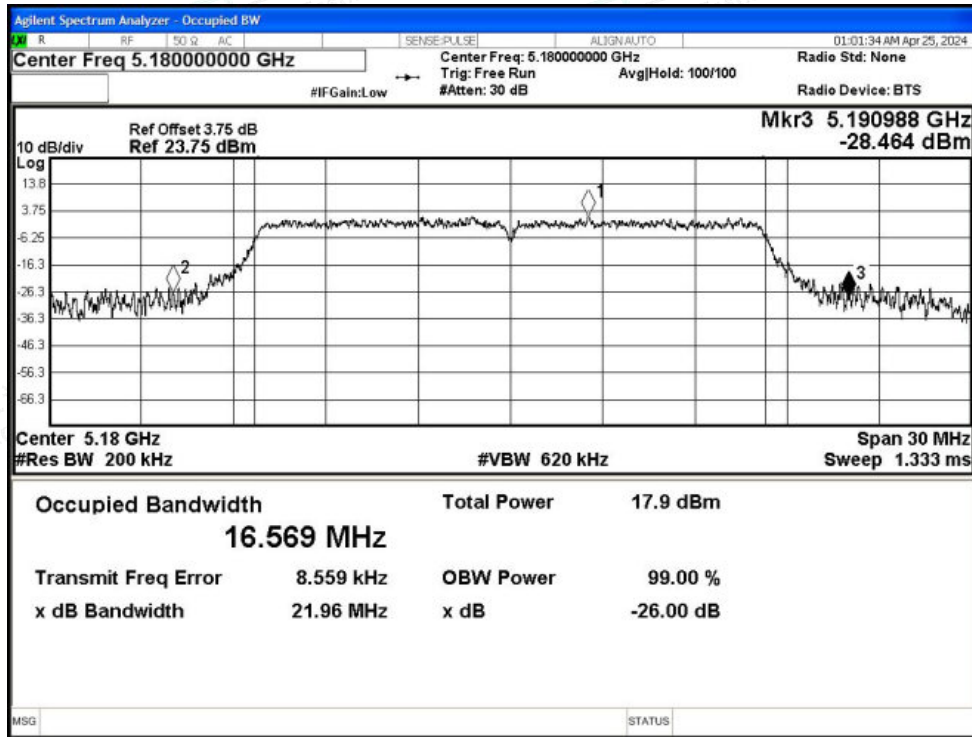
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant3	21.96	---	Pass
NVNT	a	5200	Ant3	23.863	---	Pass
NVNT	a	5240	Ant3	22.536	---	Pass
NVNT	n20	5180	Ant3	26.77	---	Pass
NVNT	n20	5200	Ant3	26.913	---	Pass
NVNT	n20	5240	Ant3	25.04	---	Pass
NVNT	n40	5190	Ant3	41.946	---	Pass
NVNT	n40	5230	Ant3	46.04	---	Pass
NVNT	ac20	5180	Ant3	26.189	---	Pass
NVNT	ac20	5200	Ant3	26.242	---	Pass
NVNT	ac20	5240	Ant3	25.703	---	Pass
NVNT	ac40	5190	Ant3	43.783	---	Pass
NVNT	ac40	5230	Ant3	47.848	---	Pass
NVNT	ac80	5210	Ant3	80.333	---	Pass



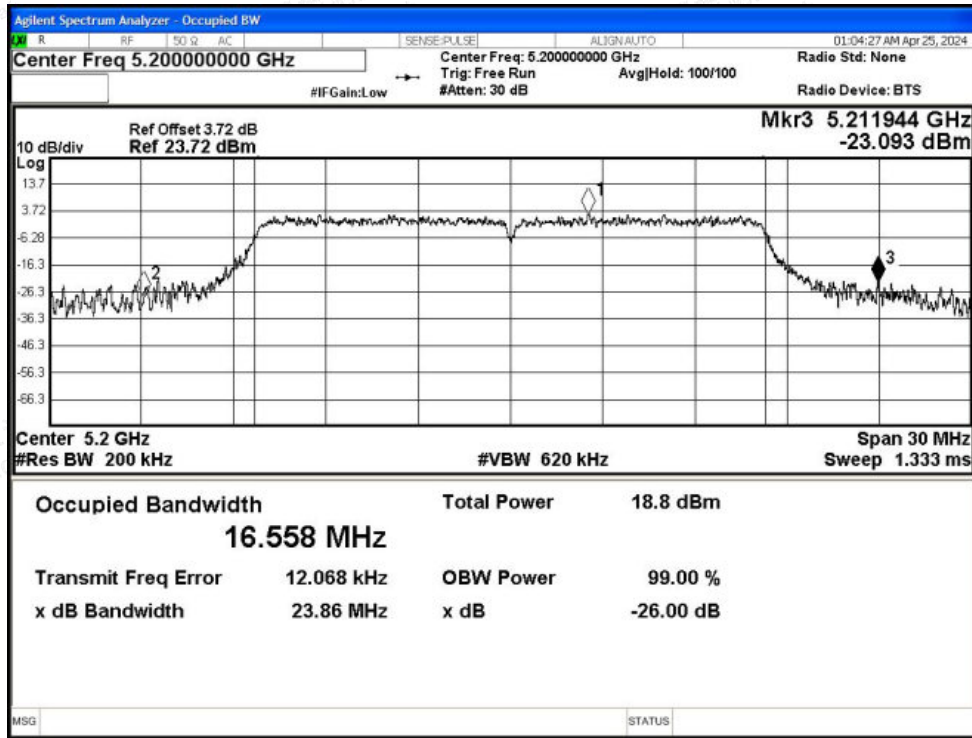


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant3

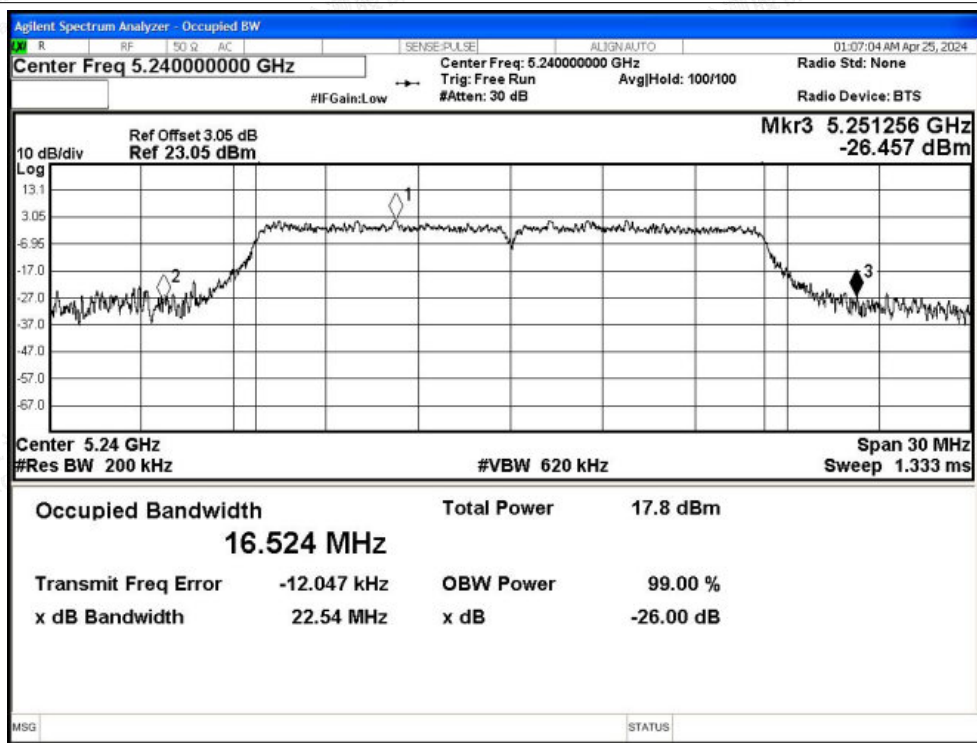


-26dB Bandwidth NVNT a 5200MHz Ant3

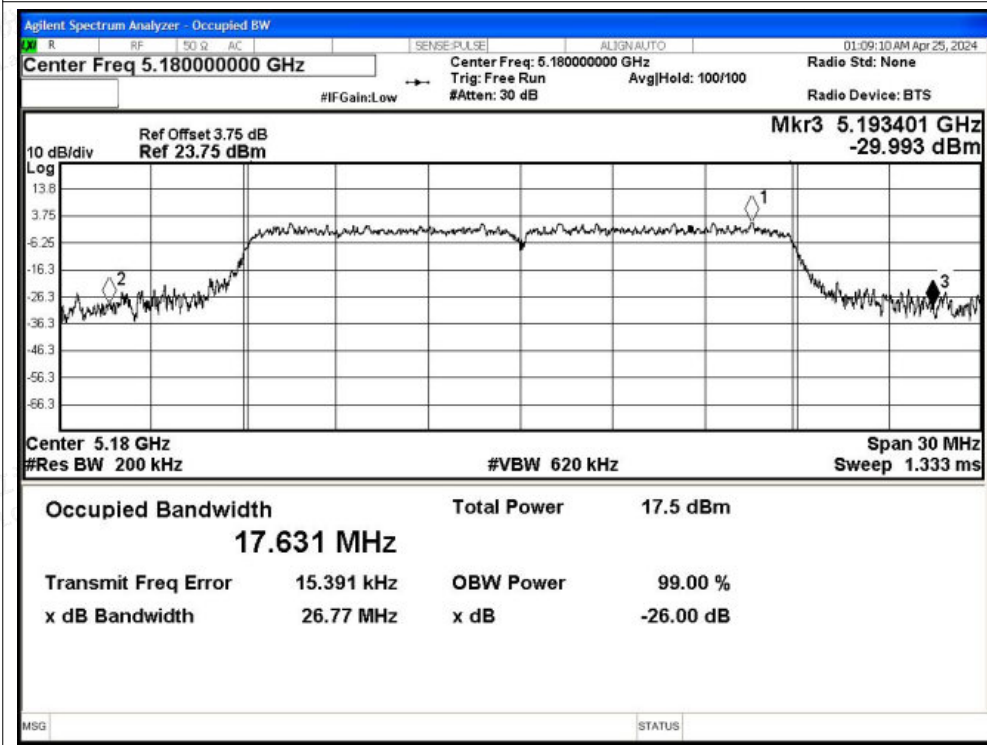




-26dB Bandwidth NVNT a 5240MHz Ant3

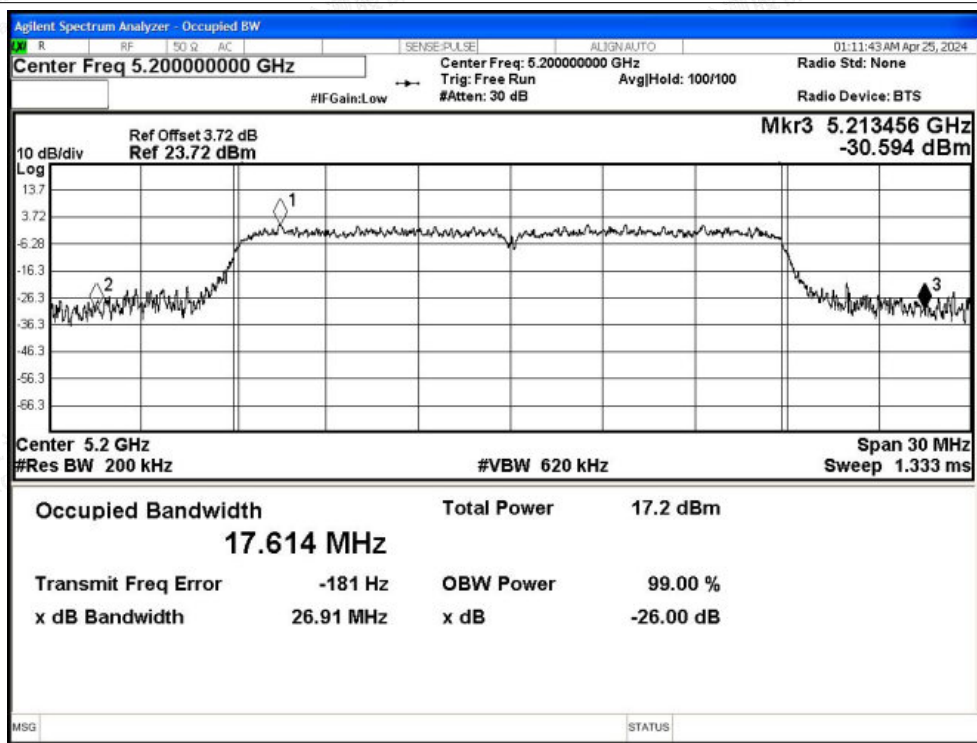


-26dB Bandwidth NVNT n20 5180MHz Ant3

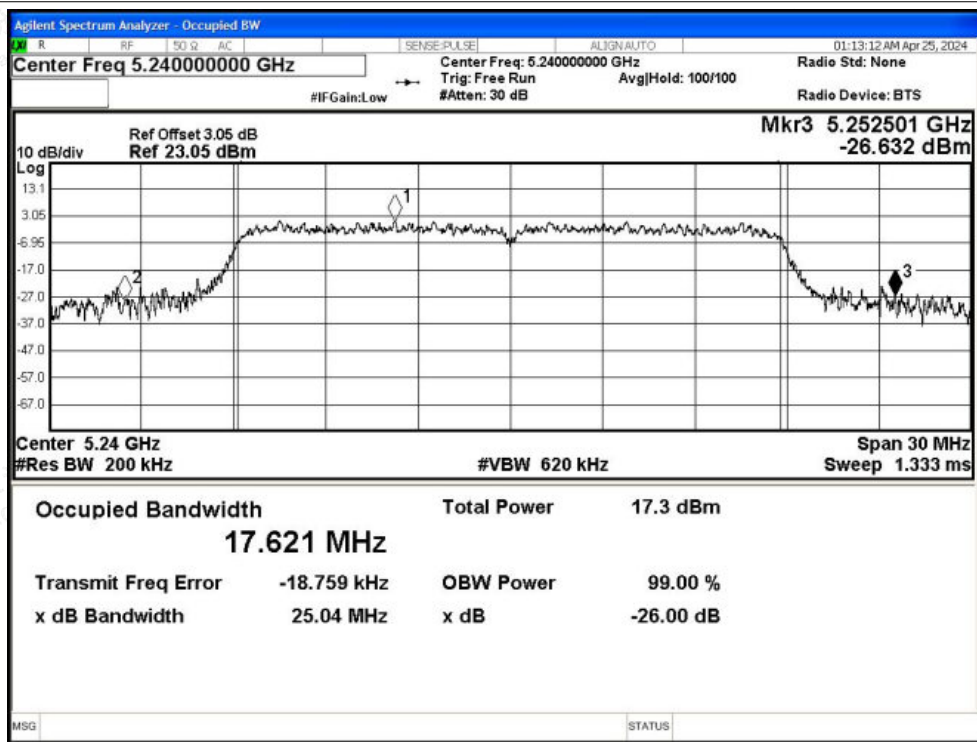




-26dB Bandwidth NVNT n20 5200MHz Ant3

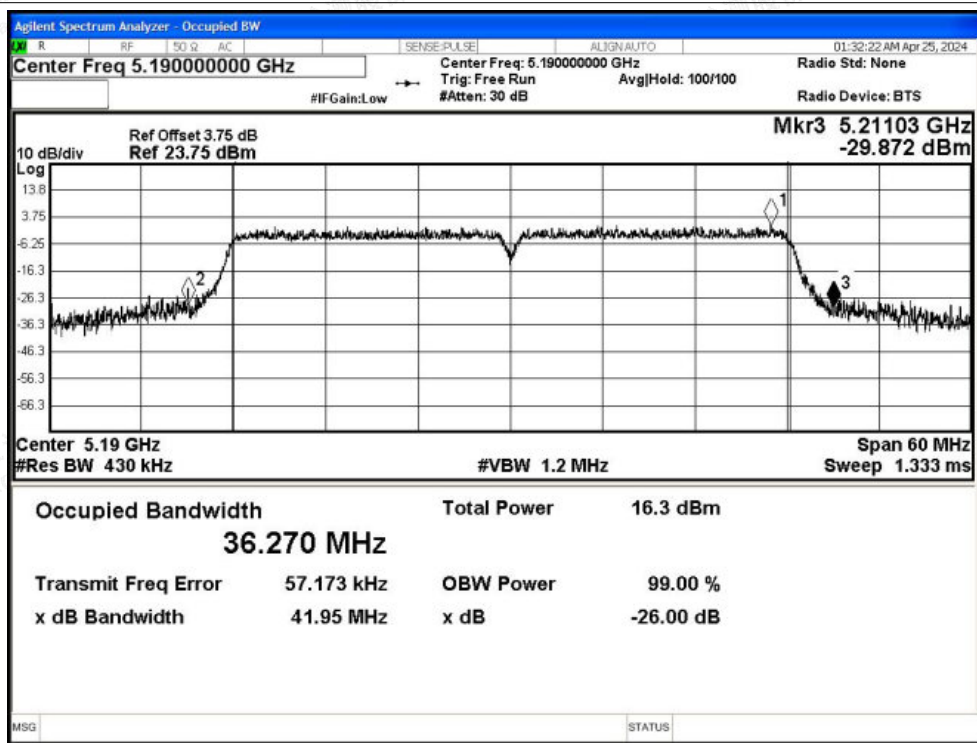


-26dB Bandwidth NVNT n20 5240MHz Ant3

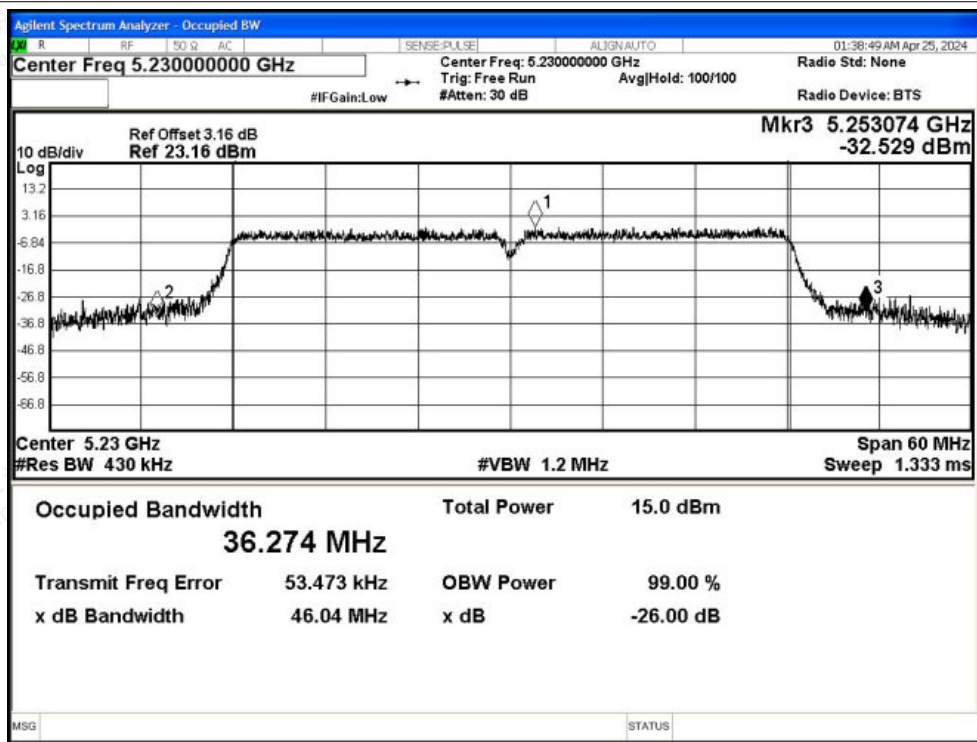




-26dB Bandwidth NVNT n40 5190MHz Ant3

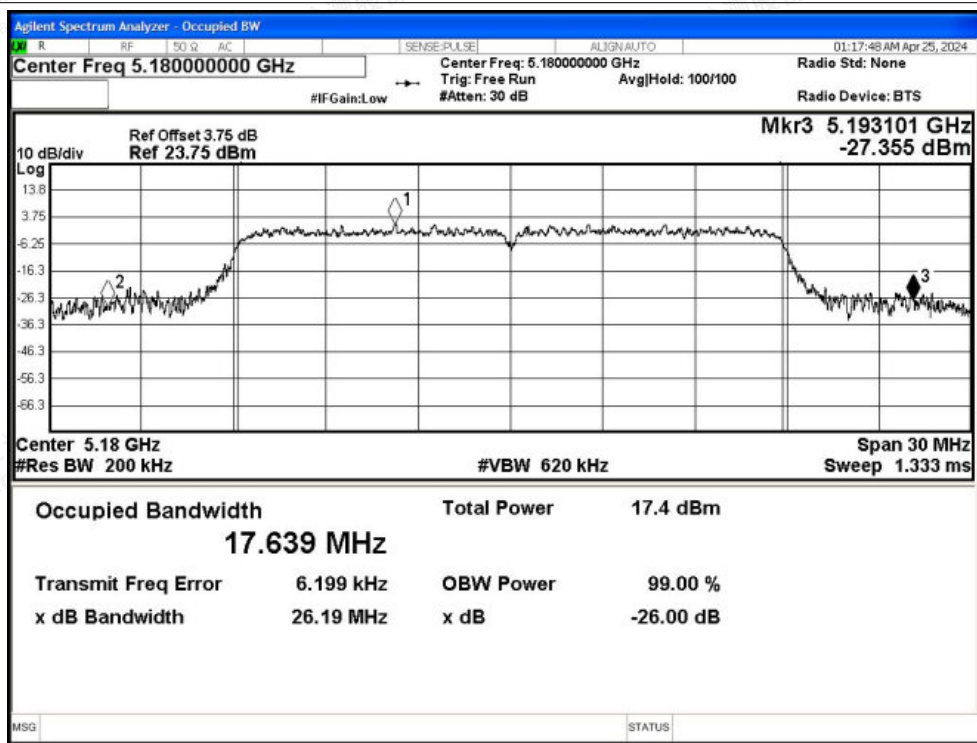


-26dB Bandwidth NVNT n40 5230MHz Ant3

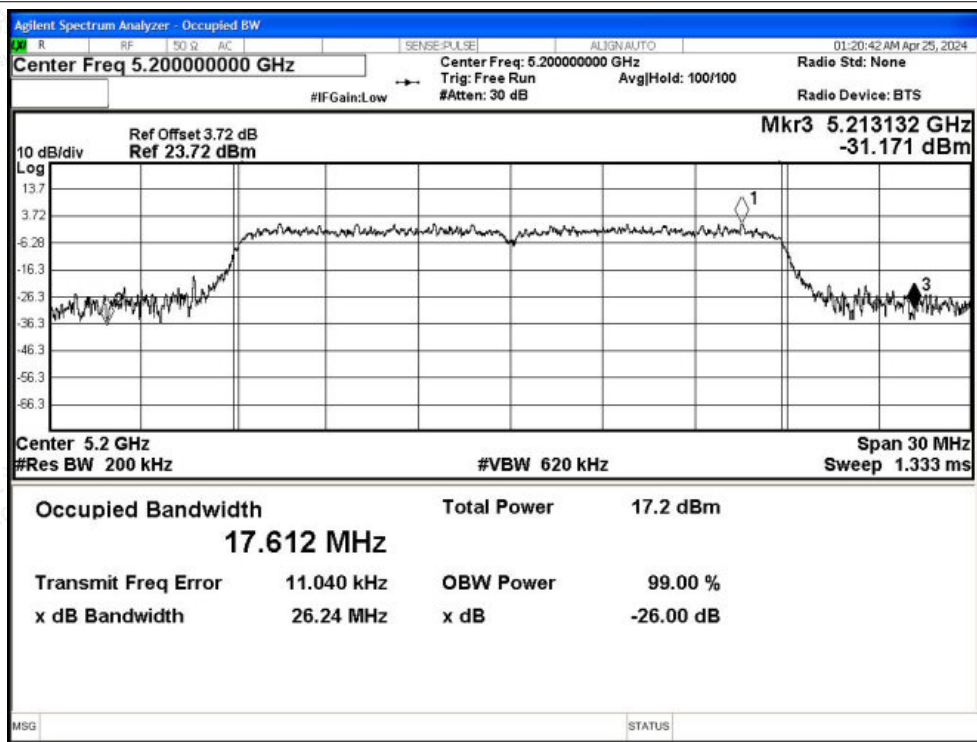




-26dB Bandwidth NVNT ac20 5180MHz Ant3

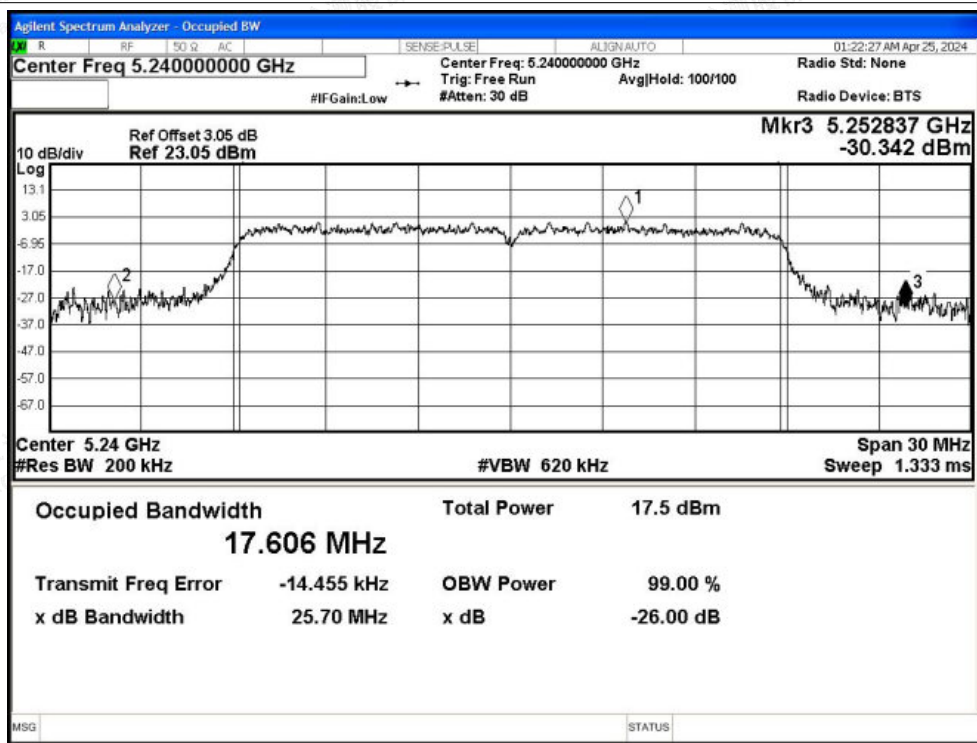


-26dB Bandwidth NVNT ac20 5200MHz Ant3

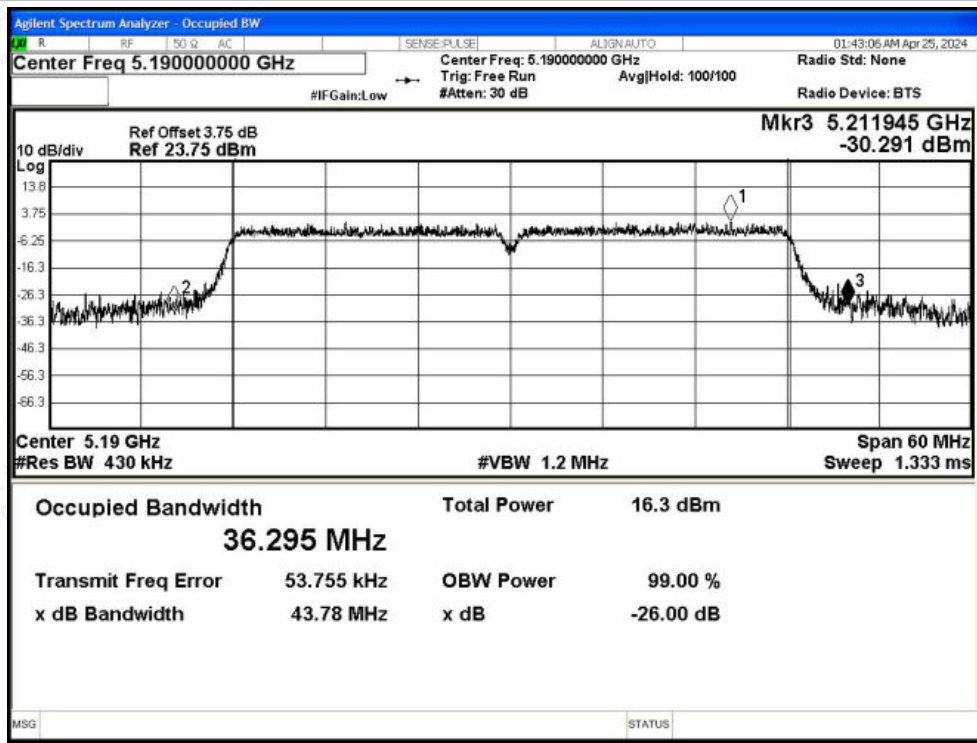




-26dB Bandwidth NVNT ac20 5240MHz Ant3

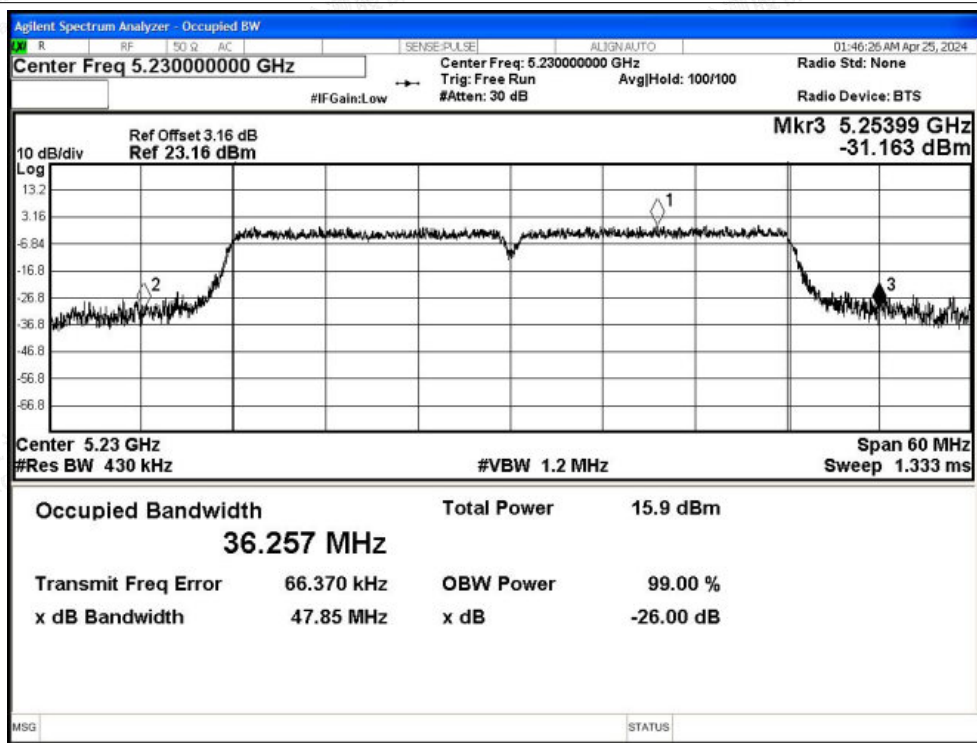


-26dB Bandwidth NVNT ac40 5190MHz Ant3

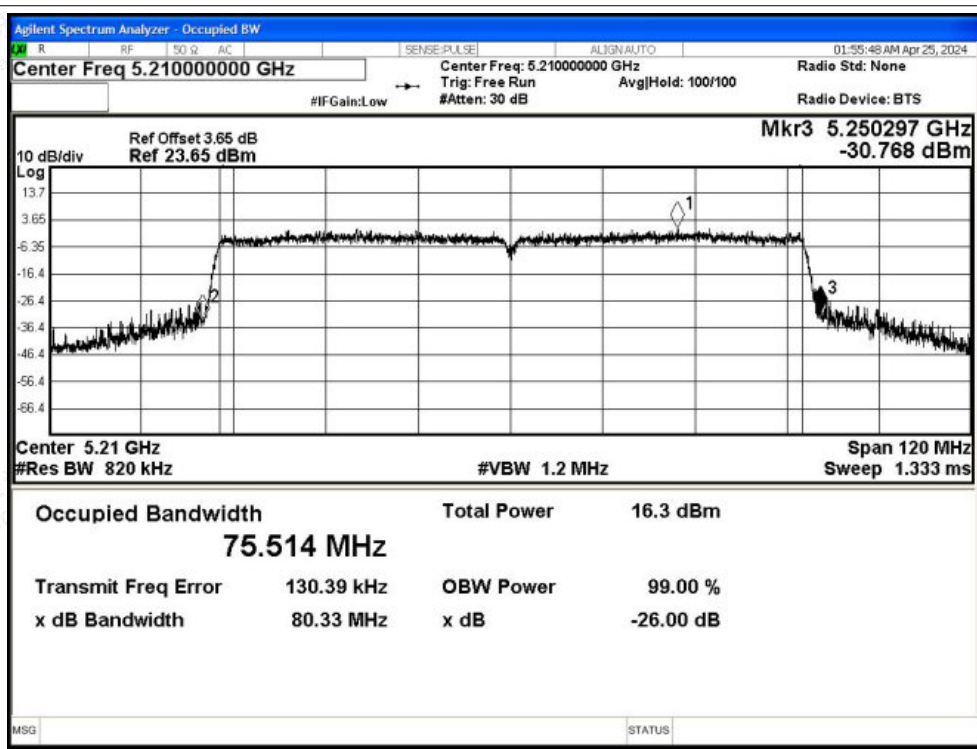




-26dB Bandwidth NVNT ac40 5230MHz Ant3



-26dB Bandwidth NVNT ac80 5210MHz Ant3





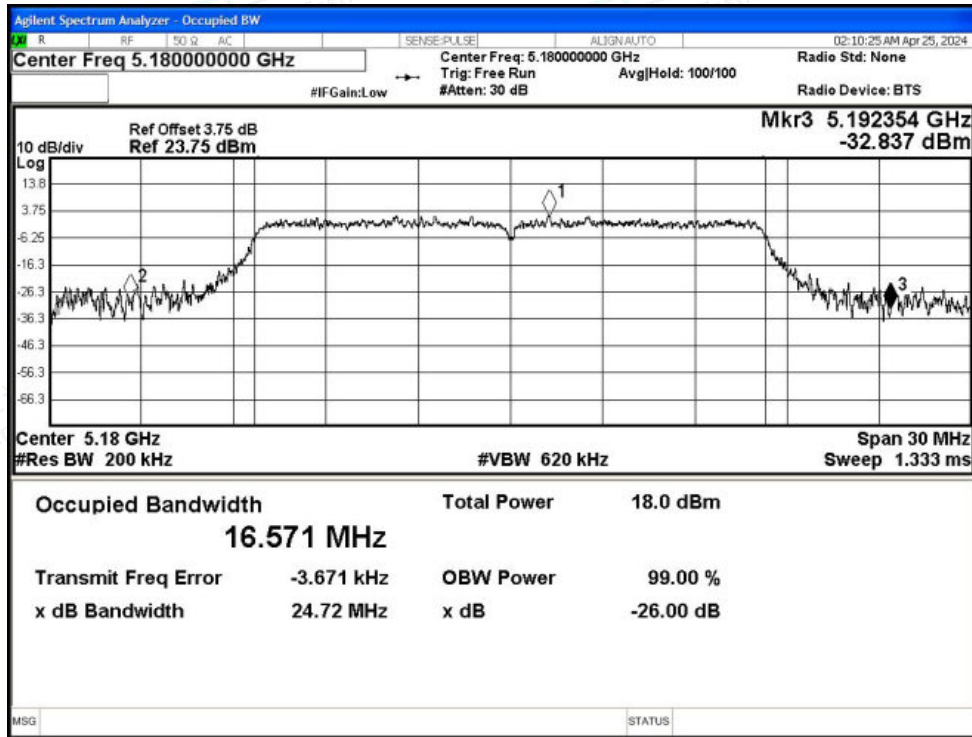
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant4	24.715	---	Pass
NVNT	a	5200	Ant4	23.897	---	Pass
NVNT	a	5240	Ant4	21.245	---	Pass
NVNT	n20	5180	Ant4	25.671	---	Pass
NVNT	n20	5200	Ant4	25.434	---	Pass
NVNT	n20	5240	Ant4	25.293	---	Pass
NVNT	n40	5190	Ant4	51.597	---	Pass
NVNT	n40	5230	Ant4	43.946	---	Pass
NVNT	ac20	5180	Ant4	28.011	---	Pass
NVNT	ac20	5200	Ant4	27.691	---	Pass
NVNT	ac20	5240	Ant4	25.707	---	Pass
NVNT	ac40	5190	Ant4	44.824	---	Pass
NVNT	ac40	5230	Ant4	45.576	---	Pass
NVNT	ac80	5210	Ant4	81.387	---	Pass



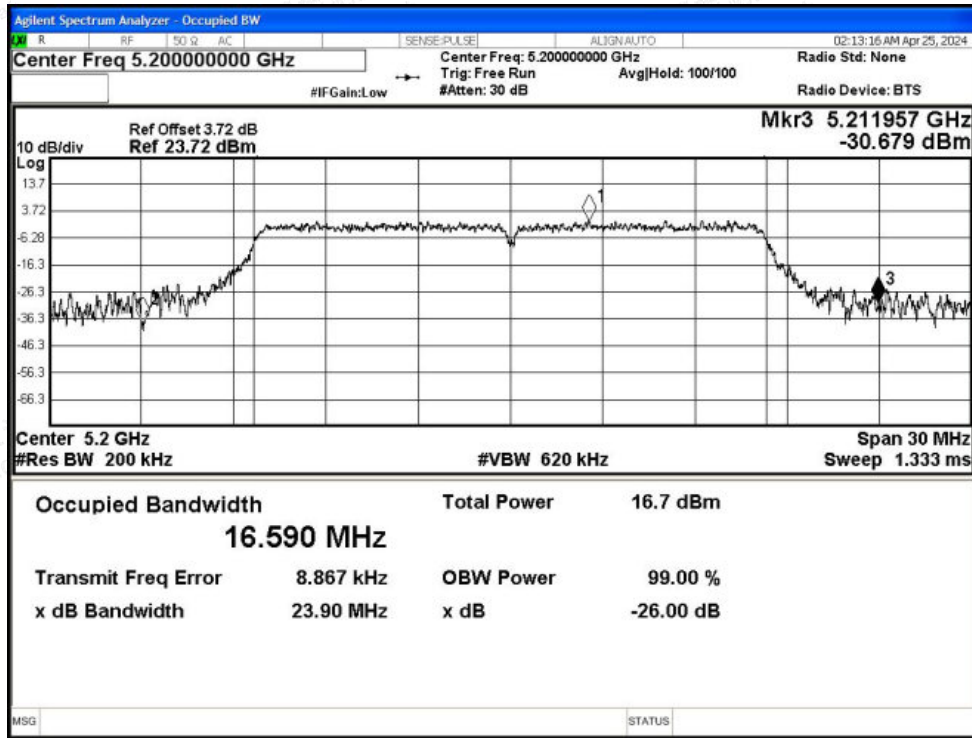


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant4

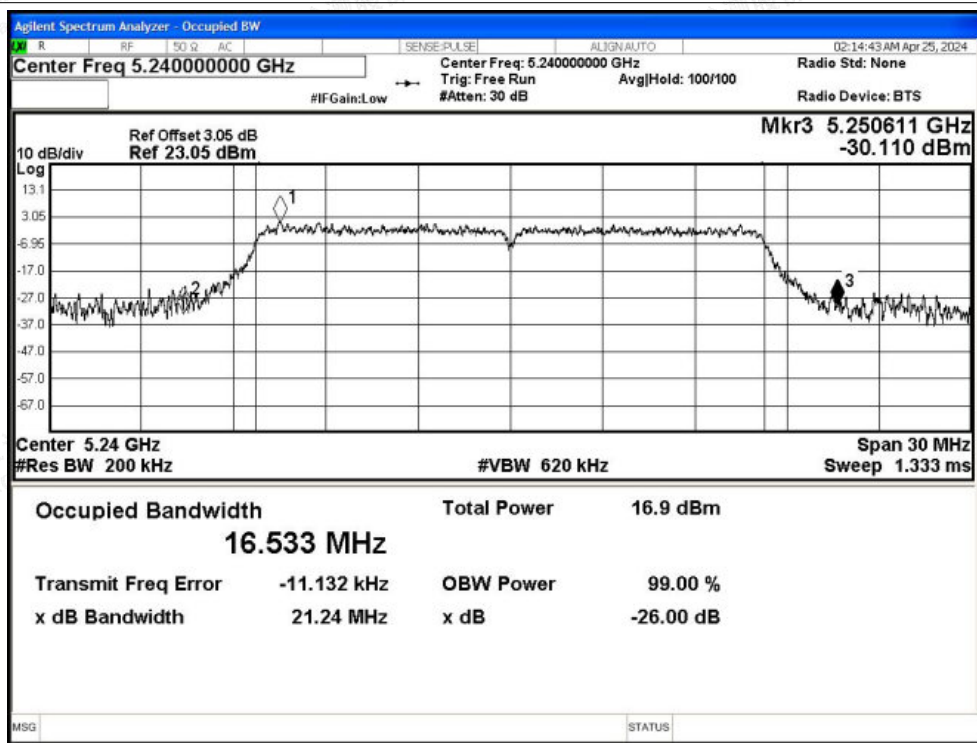


-26dB Bandwidth NVNT a 5200MHz Ant4

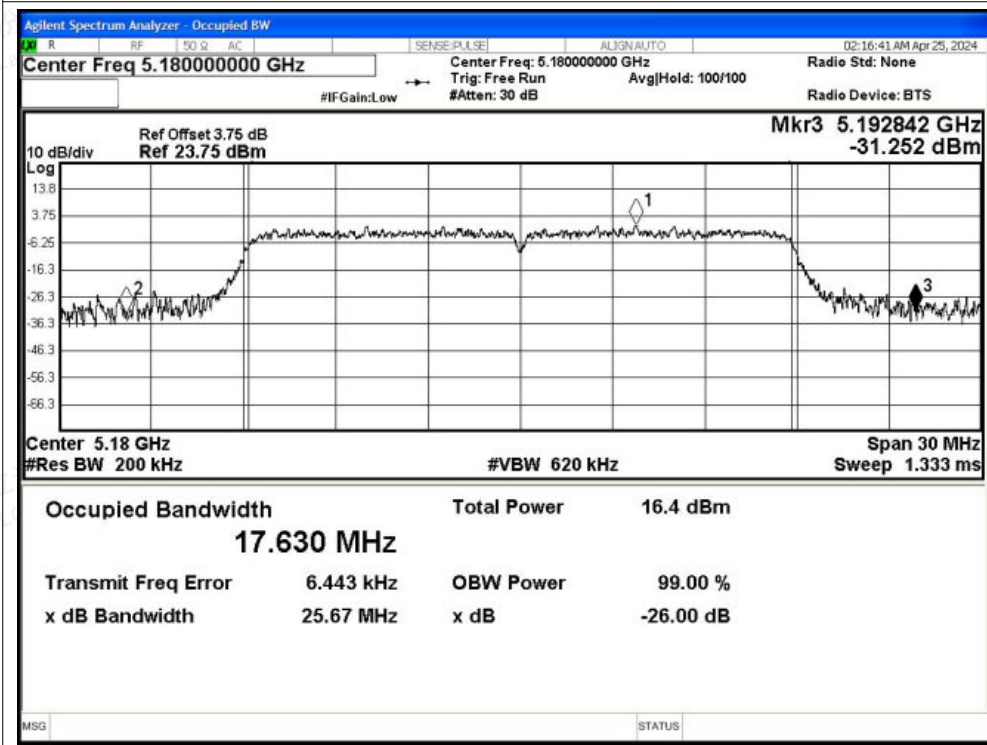




-26dB Bandwidth NVNT a 5240MHz Ant4

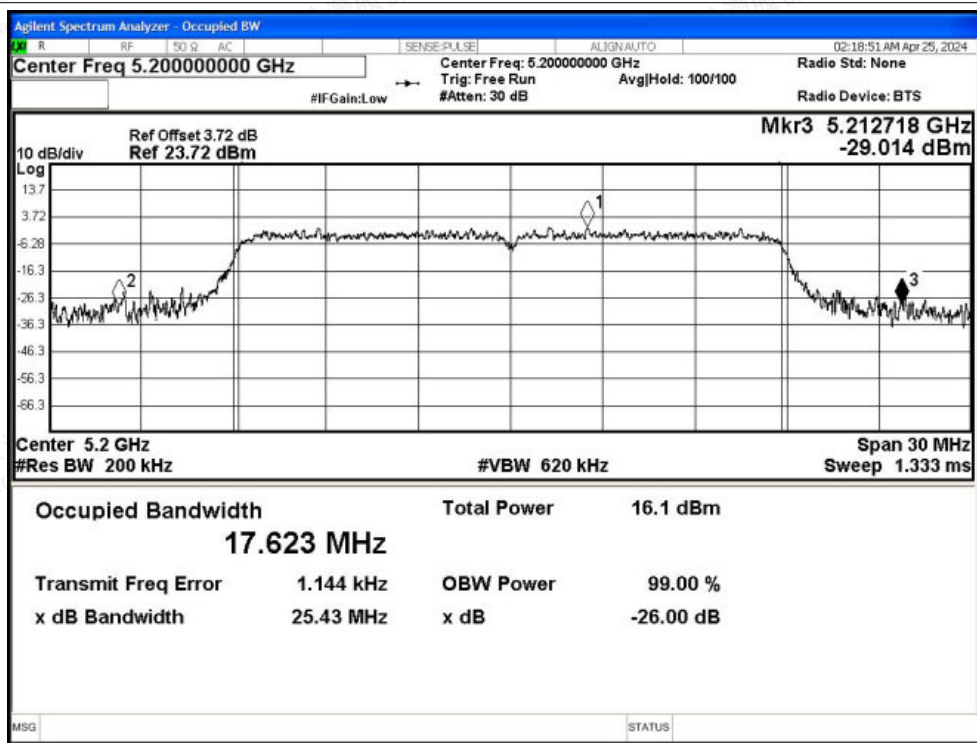


-26dB Bandwidth NVNT n20 5180MHz Ant4

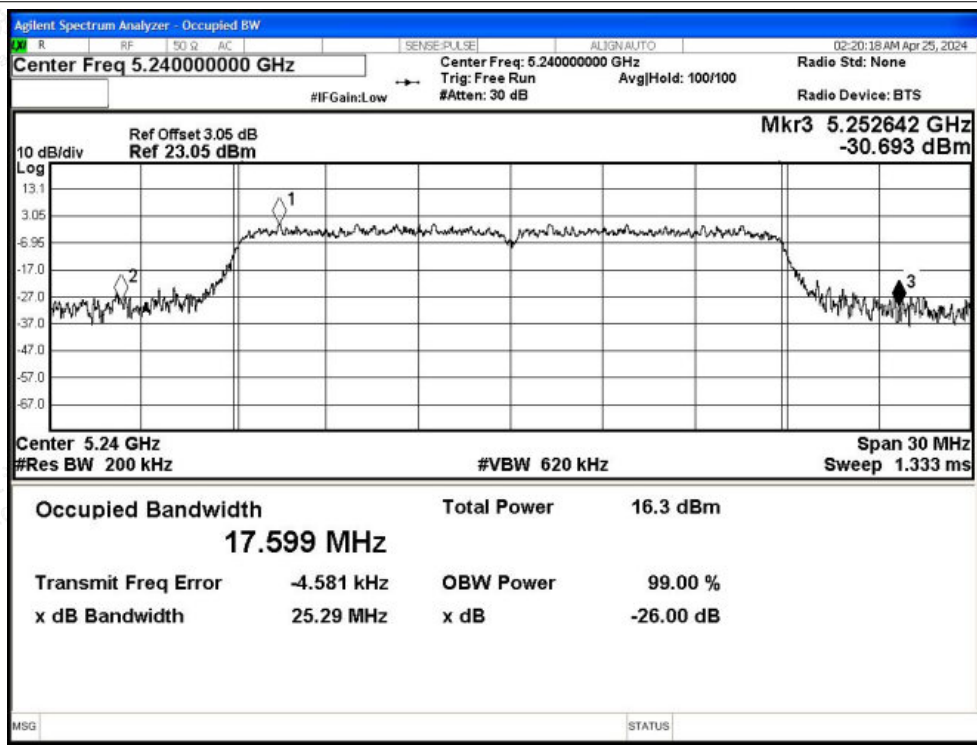




-26dB Bandwidth NVNT n20 5200MHz Ant4

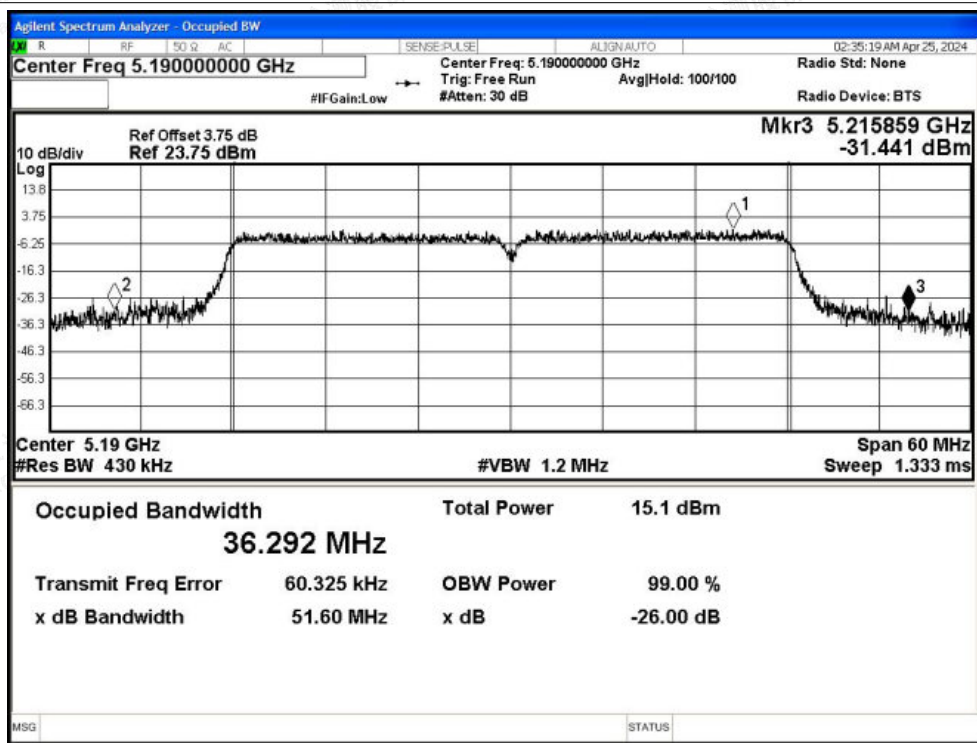


-26dB Bandwidth NVNT n20 5240MHz Ant4

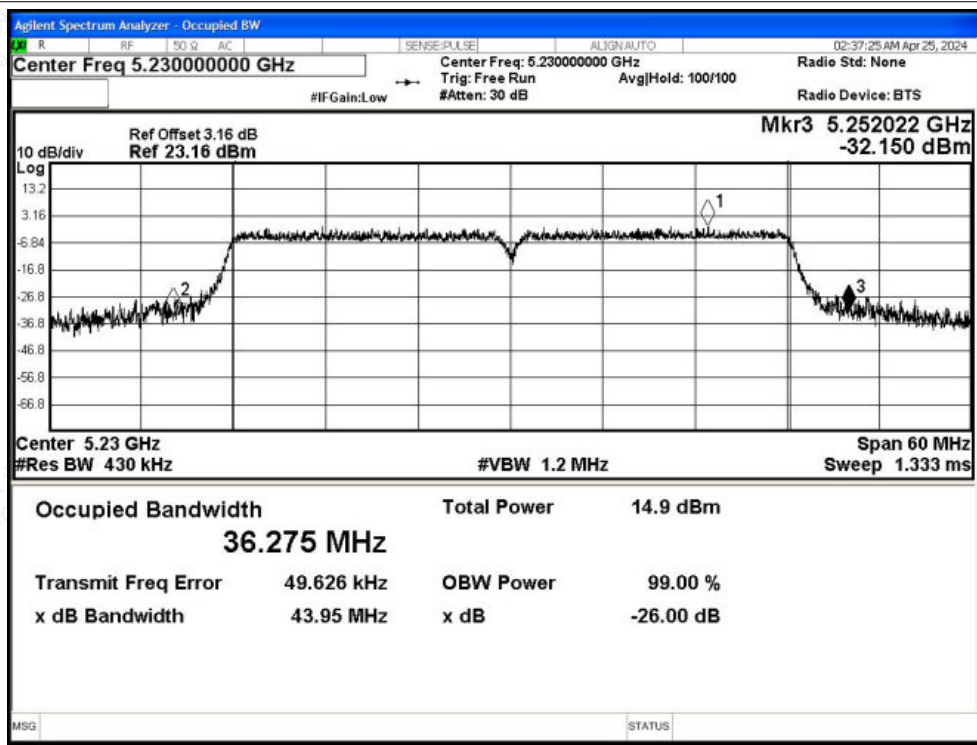




-26dB Bandwidth NVNT n40 5190MHz Ant4

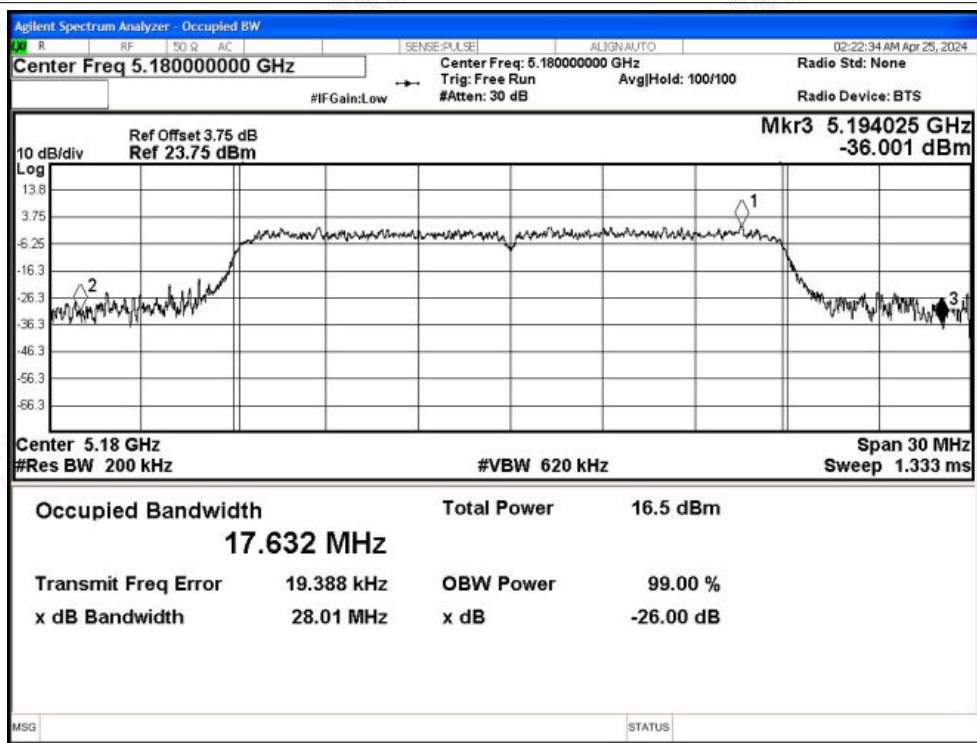


-26dB Bandwidth NVNT n40 5230MHz Ant4

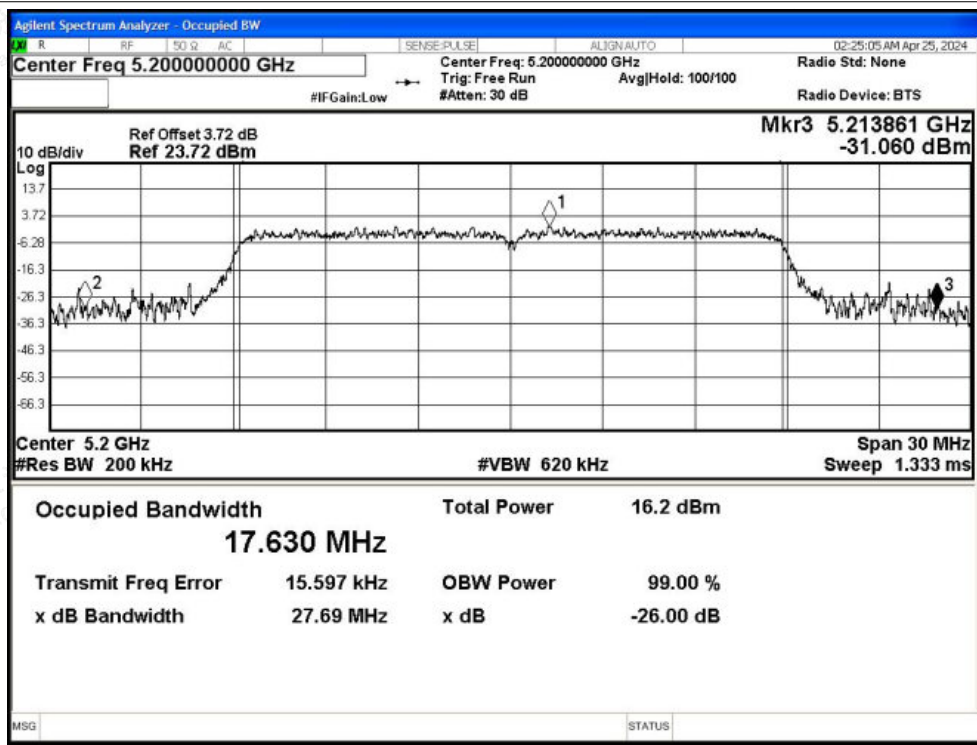




-26dB Bandwidth NVNT ac20 5180MHz Ant4

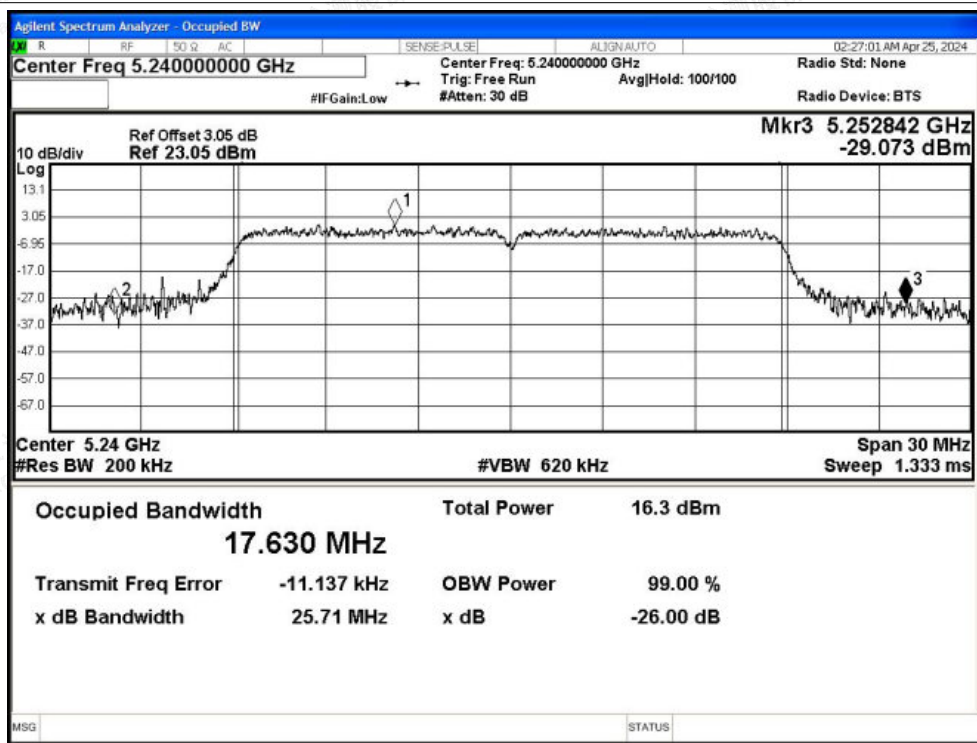


-26dB Bandwidth NVNT ac20 5200MHz Ant4

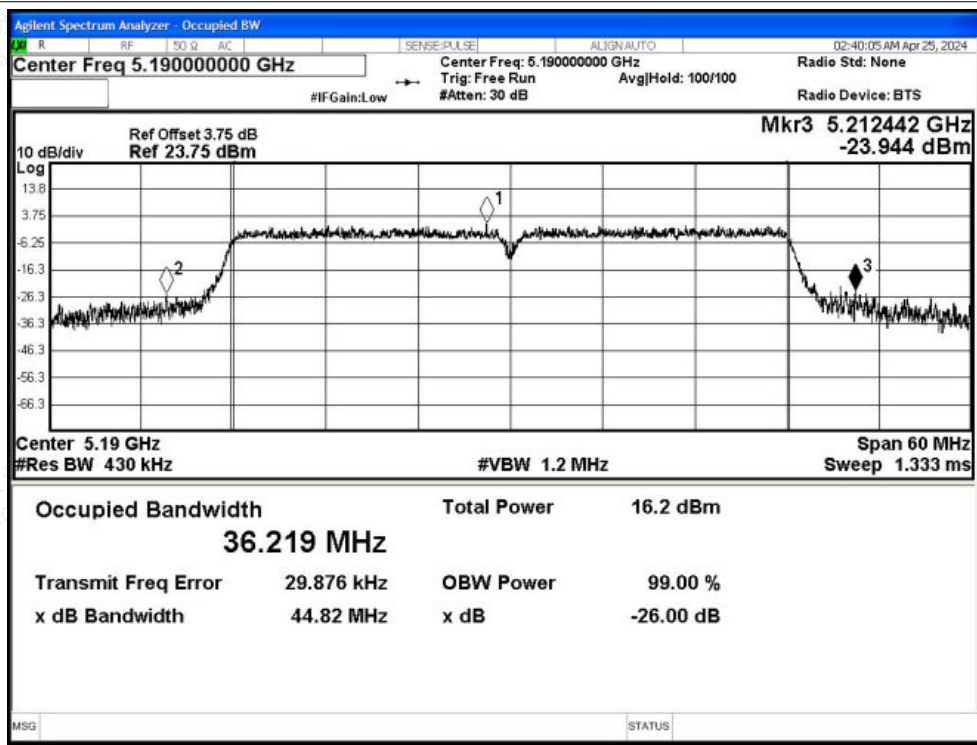




-26dB Bandwidth NVNT ac20 5240MHz Ant4

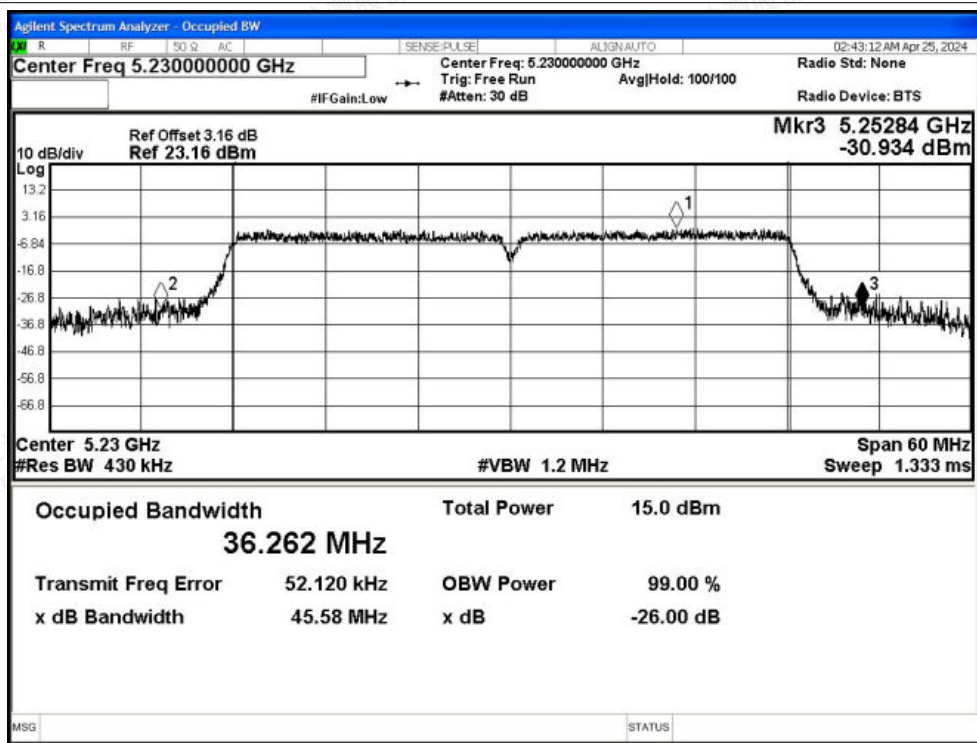


-26dB Bandwidth NVNT ac40 5190MHz Ant4

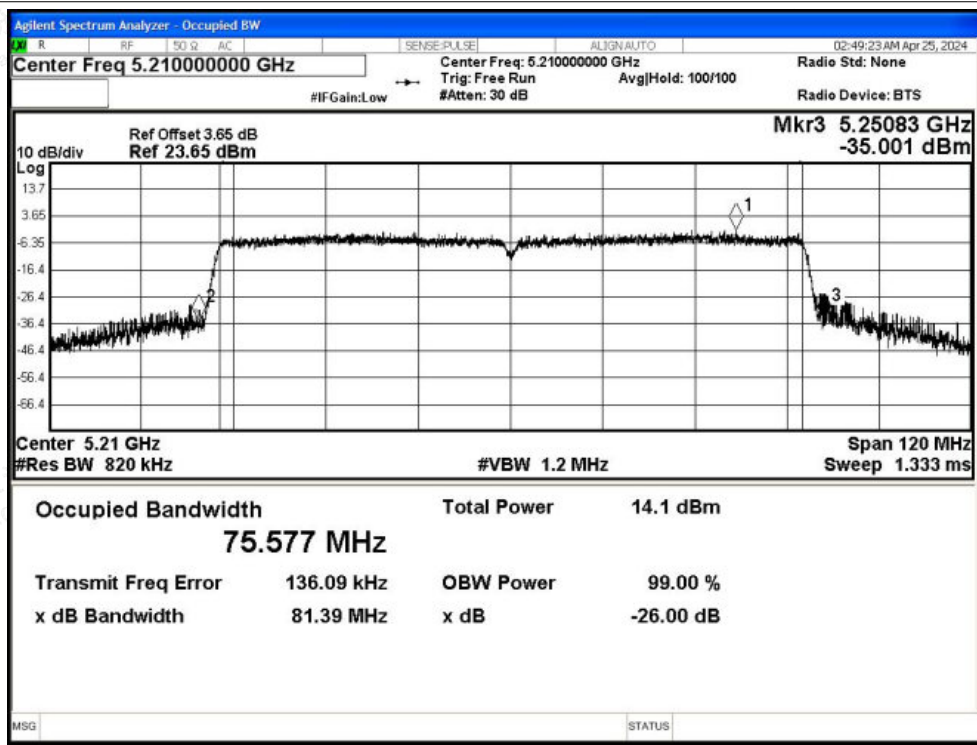




-26dB Bandwidth NVNT ac40 5230MHz Ant4



-26dB Bandwidth NVNT ac80 5210MHz Ant4





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	Ant3	12.14	0.24	12.38	24	Pass
NVNT	a	5200	Ant3	12.05	0.24	12.29	24	Pass
NVNT	a	5240	Ant3	12.22	0.24	12.46	24	Pass
NVNT	n20	5180	Ant3	11.62	0.28	11.9	24	Pass
NVNT	n20	5200	Ant3	11.37	0.28	11.65	24	Pass
NVNT	n20	5240	Ant3	11.42	0.28	11.7	24	Pass
NVNT	n40	5190	Ant3	10.41	0.24	10.65	24	Pass
NVNT	n40	5230	Ant3	10.85	0.24	11.09	24	Pass
NVNT	ac20	5180	Ant3	11.62	0.28	11.9	24	Pass
NVNT	ac20	5200	Ant3	11.48	0.28	11.76	24	Pass
NVNT	ac20	5240	Ant3	11.61	0.28	11.89	24	Pass
NVNT	ac40	5190	Ant3	10.43	0.24	10.67	24	Pass
NVNT	ac40	5230	Ant3	10	0.24	10.24	24	Pass
NVNT	ac80	5210	Ant3	9.56	0.25	9.81	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant4	11.32	0.24	11.56	24	Pass
NVNT	a	5200	Ant4	11.06	0.24	11.3	24	Pass
NVNT	a	5240	Ant4	11.26	0.24	11.5	24	Pass
NVNT	n20	5180	Ant4	10.66	0.28	10.94	24	Pass
NVNT	n20	5200	Ant4	10.4	0.28	10.68	24	Pass
NVNT	n20	5240	Ant4	10.53	0.28	10.81	24	Pass
NVNT	n40	5190	Ant4	9.23	0.24	9.47	24	Pass
NVNT	n40	5230	Ant4	9.86	0.24	10.1	24	Pass
NVNT	ac20	5180	Ant4	10.67	0.28	10.95	24	Pass
NVNT	ac20	5200	Ant4	10.44	0.28	10.72	24	Pass
NVNT	ac20	5240	Ant4	10.57	0.28	10.85	24	Pass
NVNT	ac40	5190	Ant4	9.24	0.24	9.48	24	Pass
NVNT	ac40	5230	Ant4	9.89	0.24	10.13	24	Pass
NVNT	ac80	5210	Ant4	8.53	0.25	8.78	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5180	11.9	10.94	14.46	23.57	Pass
NVNT	n20	5200	11.65	10.68	14.20	23.57	Pass
NVNT	n20	5240	11.7	10.81	14.29	23.57	Pass
NVNT	n40	5190	10.65	9.47	13.11	23.57	Pass
NVNT	n40	5230	11.09	10.1	13.63	23.57	Pass
NVNT	ac20	5180	11.9	10.95	14.46	23.57	Pass
NVNT	ac20	5200	11.76	10.72	14.28	23.57	Pass
NVNT	ac20	5240	11.89	10.85	14.41	23.57	Pass
NVNT	ac40	5190	10.67	9.48	13.13	23.57	Pass
NVNT	ac40	5230	10.24	10.13	13.20	23.57	Pass
NVNT	ac80	5210	9.81	8.78	12.34	23.57	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	Ant3	1.79	0.24	2.03	11	Pass
NVNT	a	5200	Ant3	2.48	0.24	2.72	11	Pass
NVNT	a	5240	Ant3	1.97	0.24	2.21	11	Pass
NVNT	n20	5180	Ant3	0.9	0.28	1.18	11	Pass
NVNT	n20	5200	Ant3	0.67	0.28	0.95	11	Pass
NVNT	n20	5240	Ant3	0.77	0.28	1.05	11	Pass
NVNT	n40	5190	Ant3	-3.22	0.24	-2.98	11	Pass
NVNT	n40	5230	Ant3	-4.49	0.24	-4.25	11	Pass
NVNT	ac20	5180	Ant3	1.06	0.28	1.34	11	Pass
NVNT	ac20	5200	Ant3	0.65	0.28	0.93	11	Pass
NVNT	ac20	5240	Ant3	1.43	0.28	1.71	11	Pass
NVNT	ac40	5190	Ant3	-3.16	0.24	-2.92	11	Pass
NVNT	ac40	5230	Ant3	-3.55	0.24	-3.31	11	Pass
NVNT	ac80	5210	Ant3	-6.81	0.25	-6.56	11	Pass

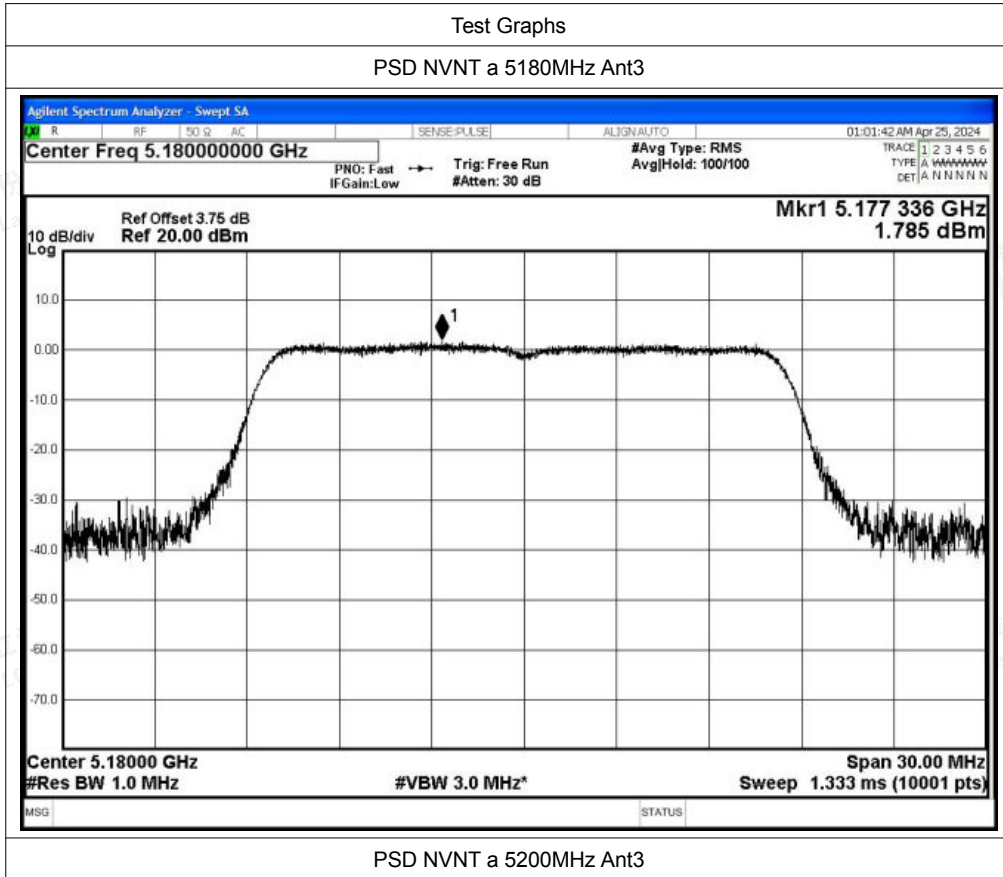
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant4	1.76	0.24	2	11	Pass
NVNT	a	5200	Ant4	0.46	0.24	0.7	11	Pass
NVNT	a	5240	Ant4	0.76	0.24	1	11	Pass
NVNT	n20	5180	Ant4	0.03	0.28	0.31	11	Pass
NVNT	n20	5200	Ant4	-0.15	0.28	0.13	11	Pass
NVNT	n20	5240	Ant4	-0.11	0.28	0.17	11	Pass
NVNT	n40	5190	Ant4	-3.94	0.24	-3.7	11	Pass
NVNT	n40	5230	Ant4	-4.81	0.24	-4.57	11	Pass
NVNT	ac20	5180	Ant4	-0.18	0.28	0.1	11	Pass
NVNT	ac20	5200	Ant4	-0.45	0.28	-0.17	11	Pass
NVNT	ac20	5240	Ant4	-0.12	0.28	0.16	11	Pass
NVNT	ac40	5190	Ant4	-2.96	0.24	-2.72	11	Pass
NVNT	ac40	5230	Ant4	-4.71	0.24	-4.47	11	Pass
NVNT	ac80	5210	Ant4	-9.29	0.25	-9.04	11	Pass

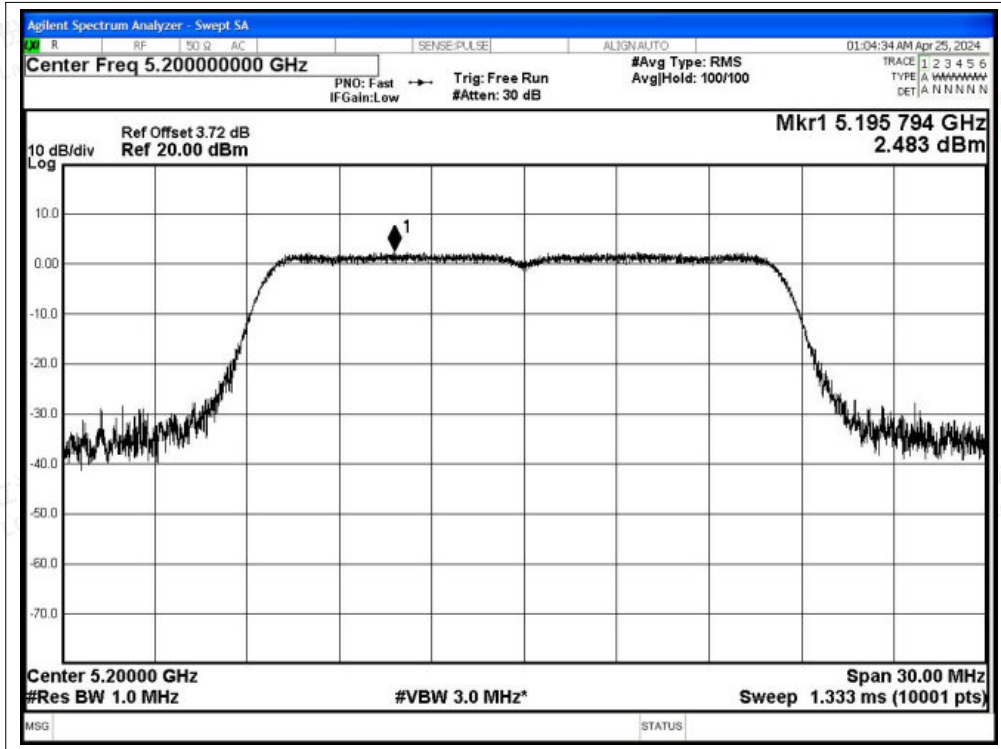




MIMO

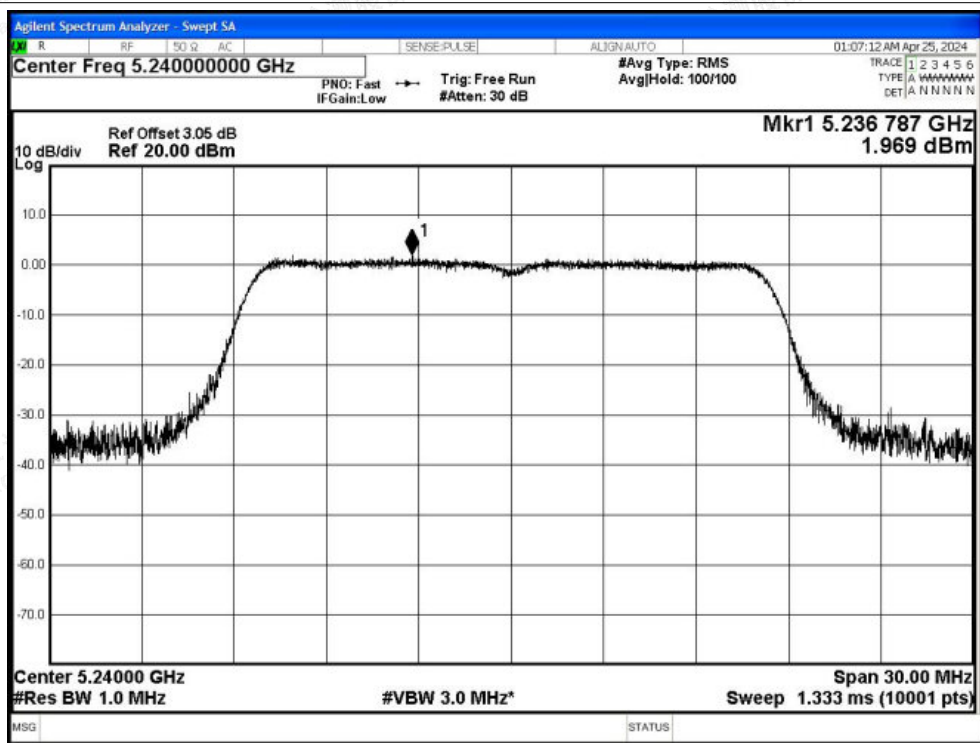
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5180	1.18	0.31	3.78	10.57	Pass
NVNT	n20	5200	0.95	0.13	3.57	10.57	Pass
NVNT	n20	5240	1.05	0.17	3.64	10.57	Pass
NVNT	n40	5190	-2.98	-3.7	-0.31	10.57	Pass
NVNT	n40	5230	-4.25	-4.57	-1.40	10.57	Pass
NVNT	ac20	5180	1.34	0.1	3.77	10.57	Pass
NVNT	ac20	5200	0.93	-0.17	3.43	10.57	Pass
NVNT	ac20	5240	1.71	0.16	4.01	10.57	Pass
NVNT	ac40	5190	-2.92	-2.72	0.19	10.57	Pass
NVNT	ac40	5230	-3.31	-4.47	-0.84	10.57	Pass
NVNT	ac80	5210	-6.56	-9.04	-4.62	10.57	Pass



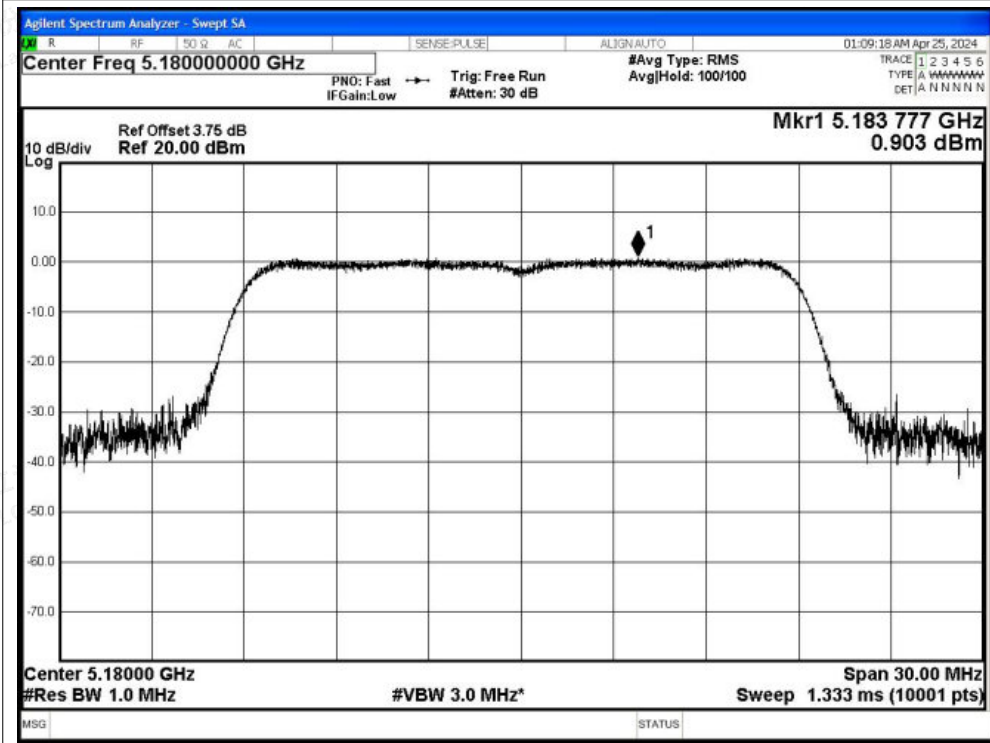




PSD NVNT a 5240MHz Ant3

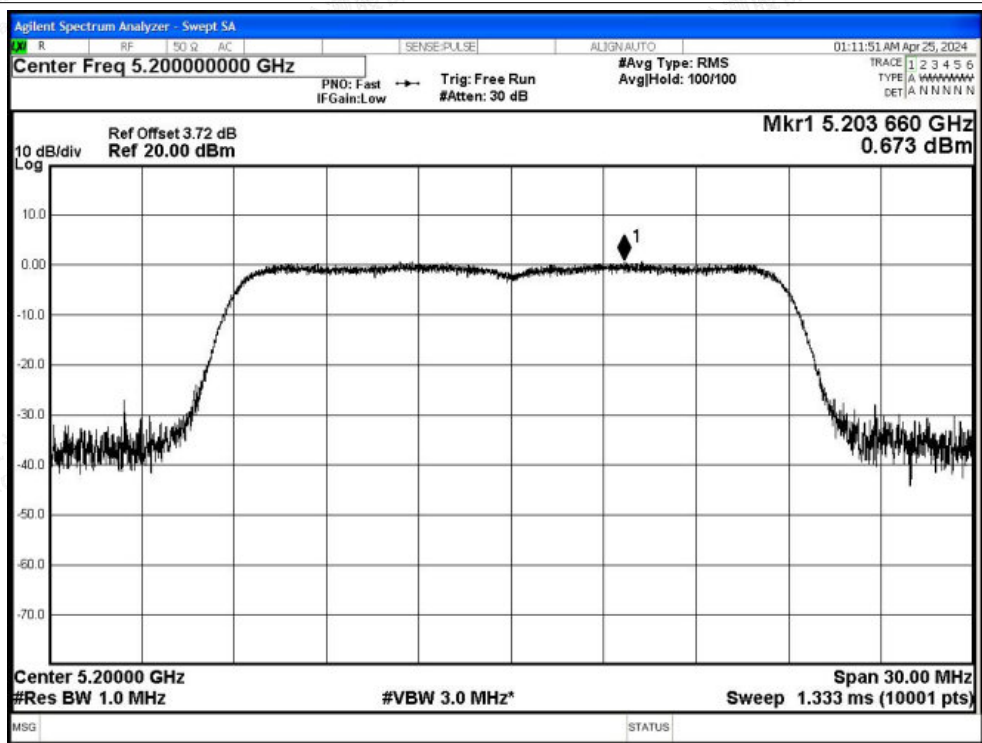


PSD NVNT n20 5180MHz Ant3

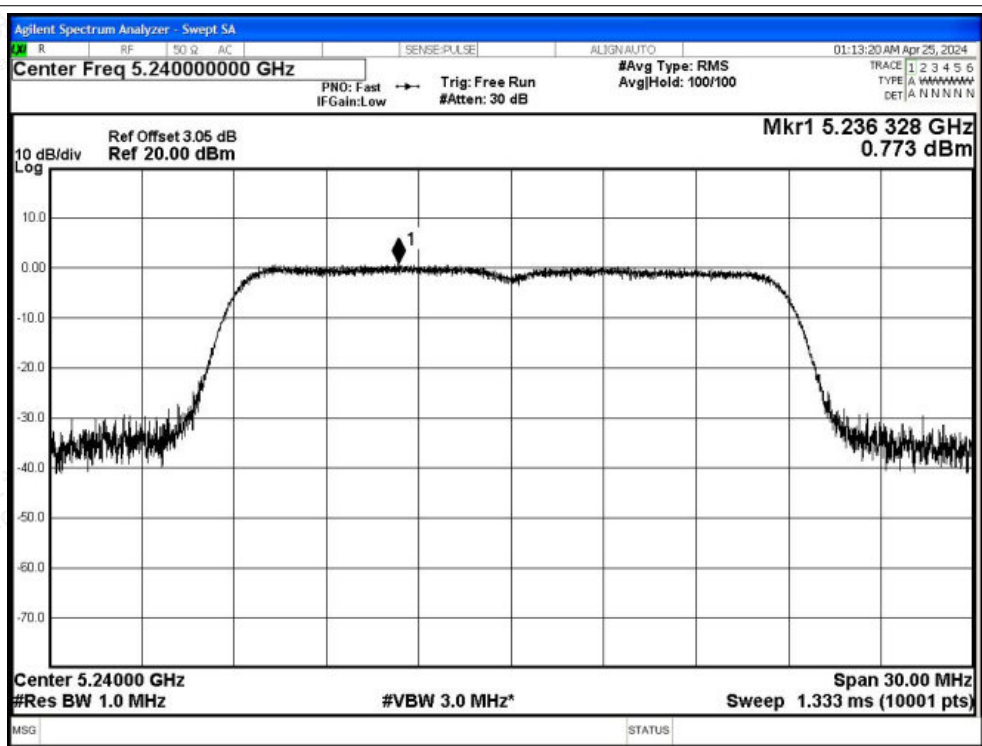




PSD NVNT n20 5200MHz Ant3

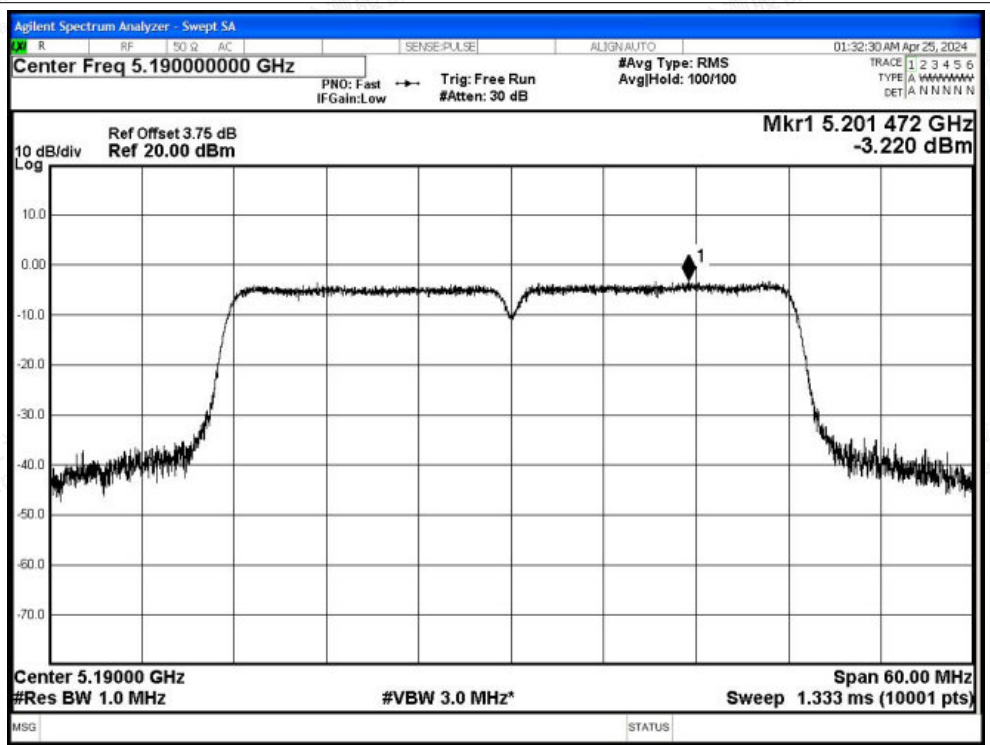


PSD NVNT n20 5240MHz Ant3

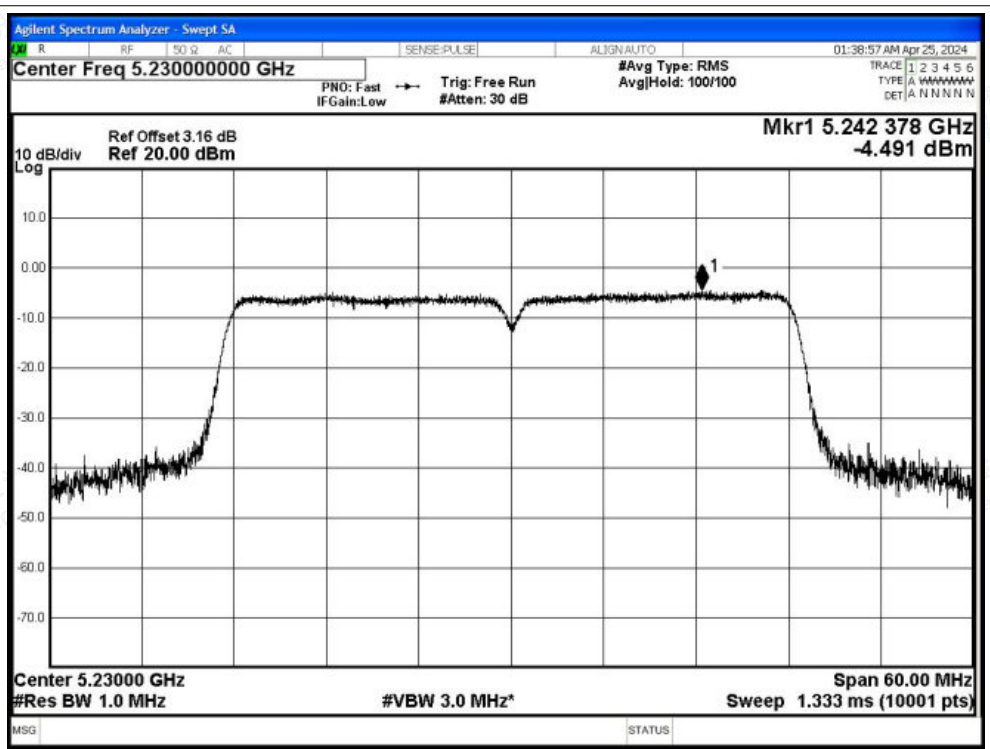




PSD NVNT n40 5190MHz Ant3

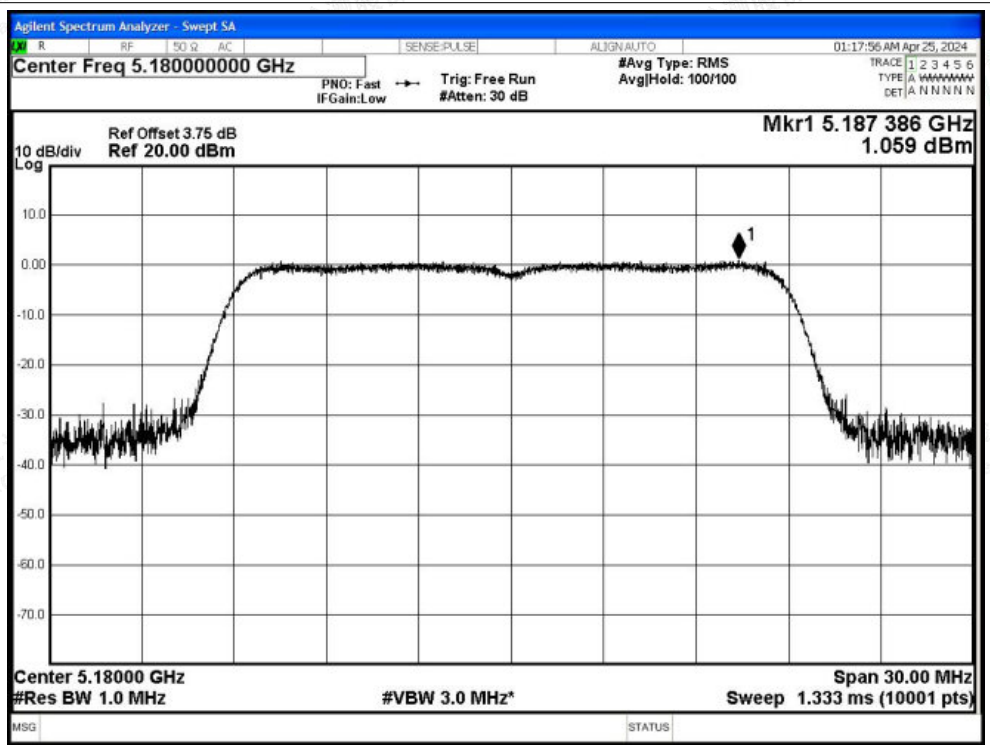


PSD NVNT n40 5230MHz Ant3

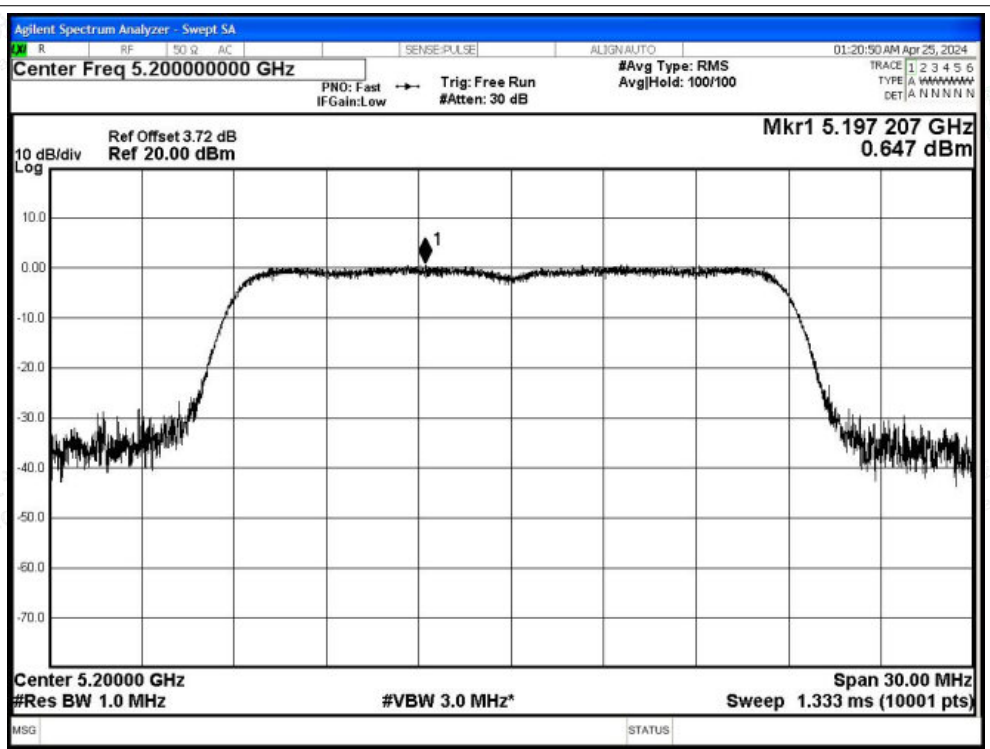




PSD NVNT ac20 5180MHz Ant3

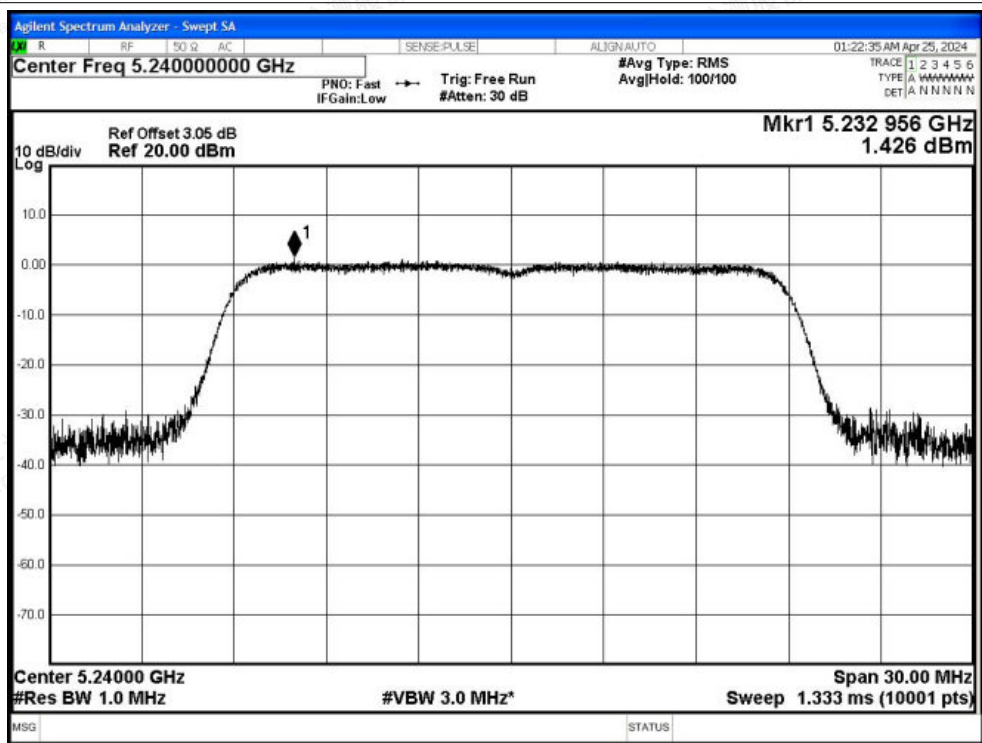


PSD NVNT ac20 5200MHz Ant3

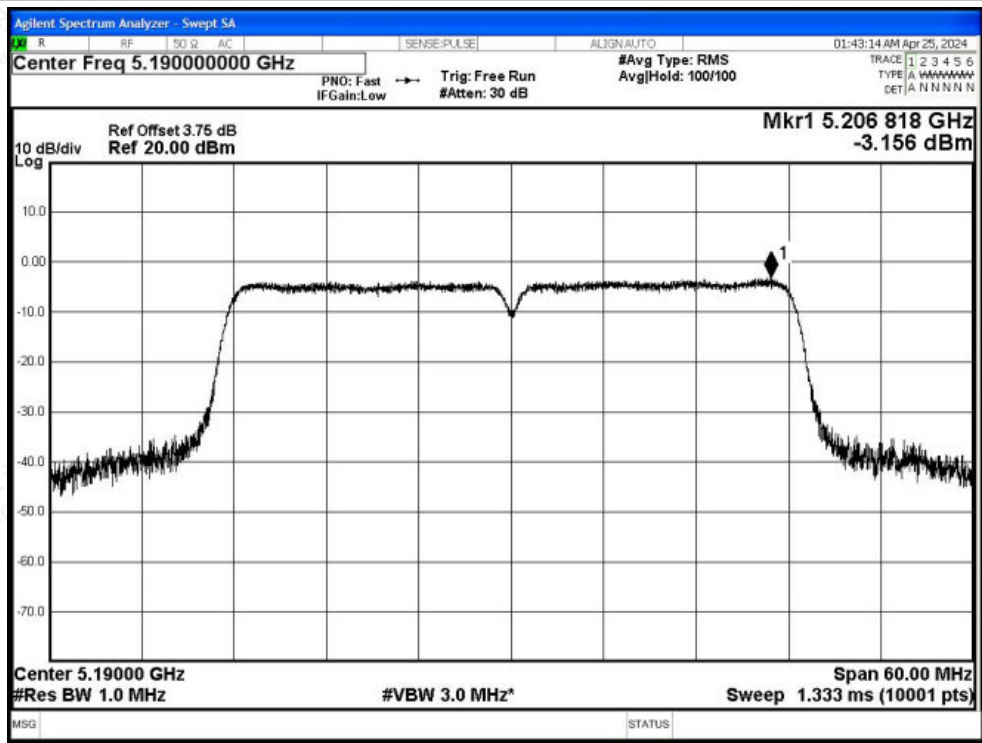




PSD NVNT ac20 5240MHz Ant3

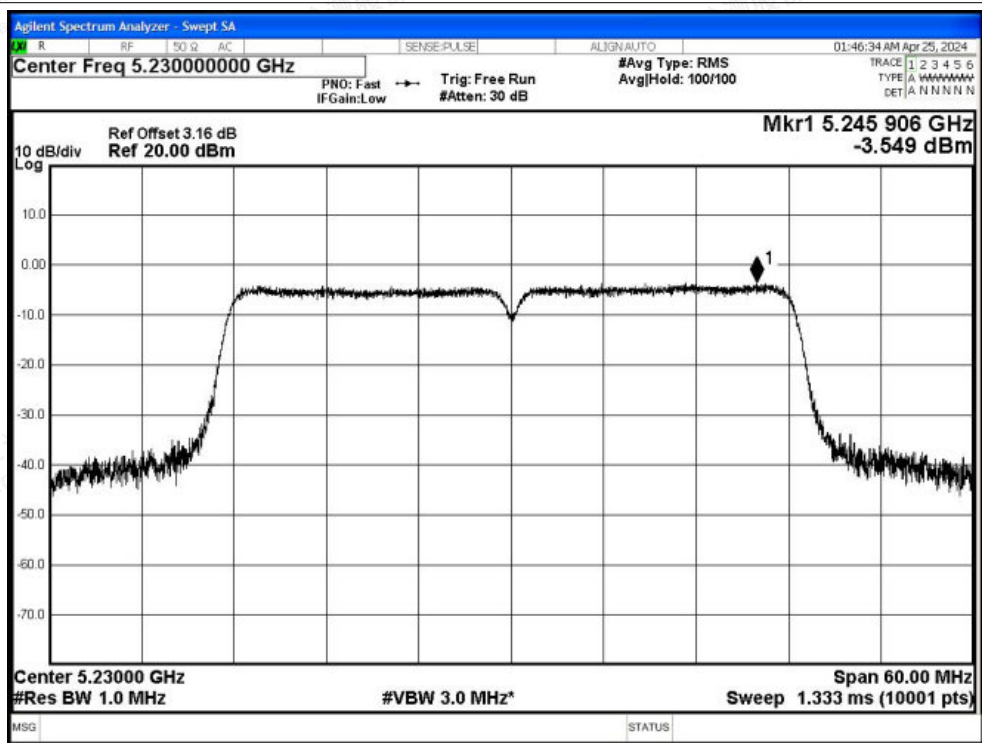


PSD NVNT ac40 5190MHz Ant3

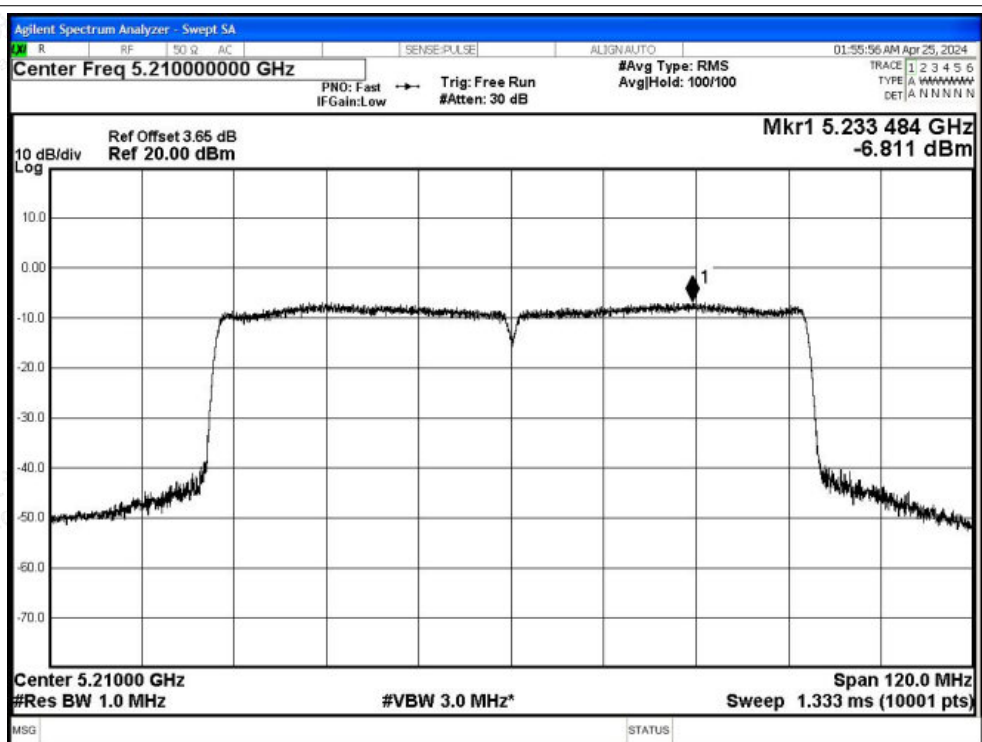




PSD NVNT ac40 5230MHz Ant3



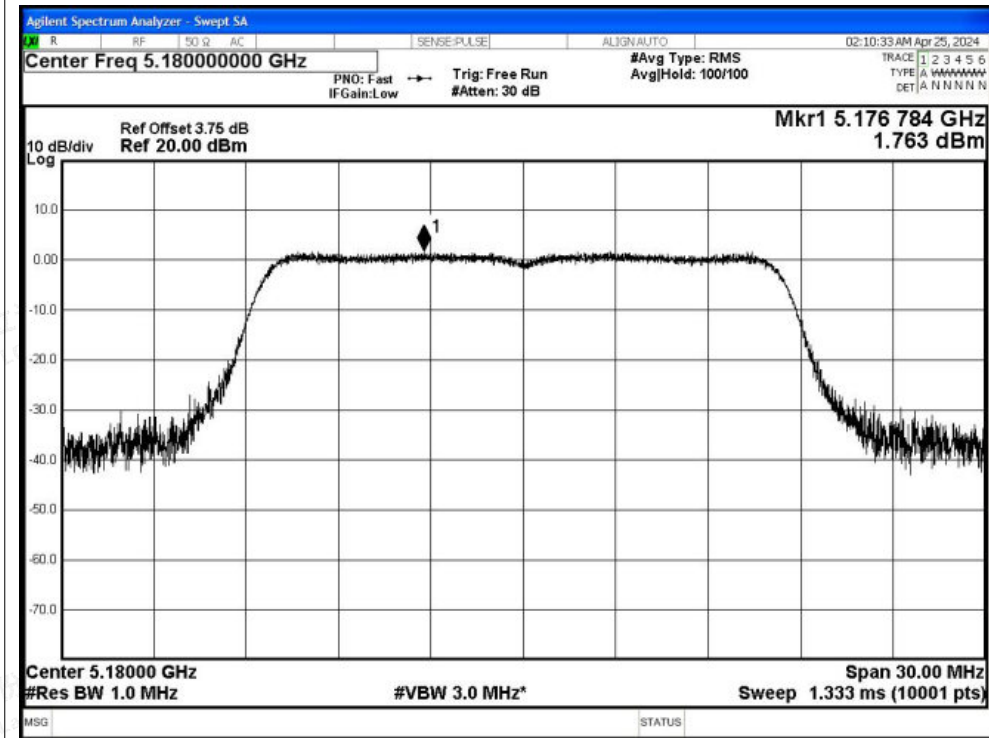
PSD NVNT ac80 5210MHz Ant3



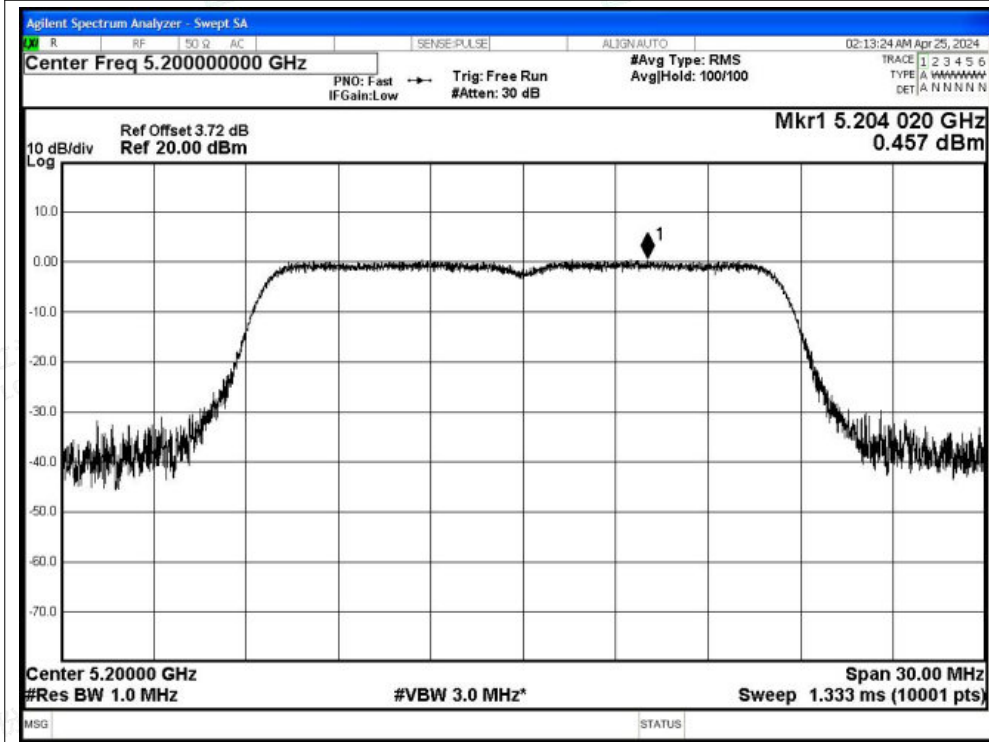


Test Graphs

PSD NVNT a 5180MHz Ant4

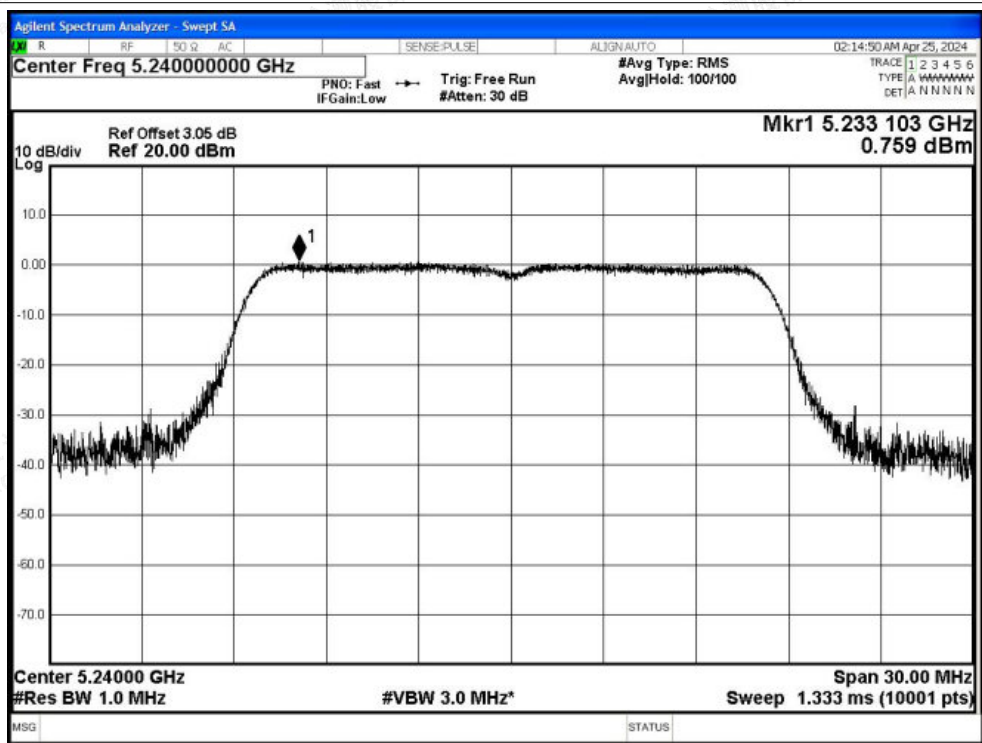


PSD NVNT a 5200MHz Ant4





PSD NVNT a 5240MHz Ant4



PSD NVNT n20 5180MHz Ant4

