

Duty Cycle

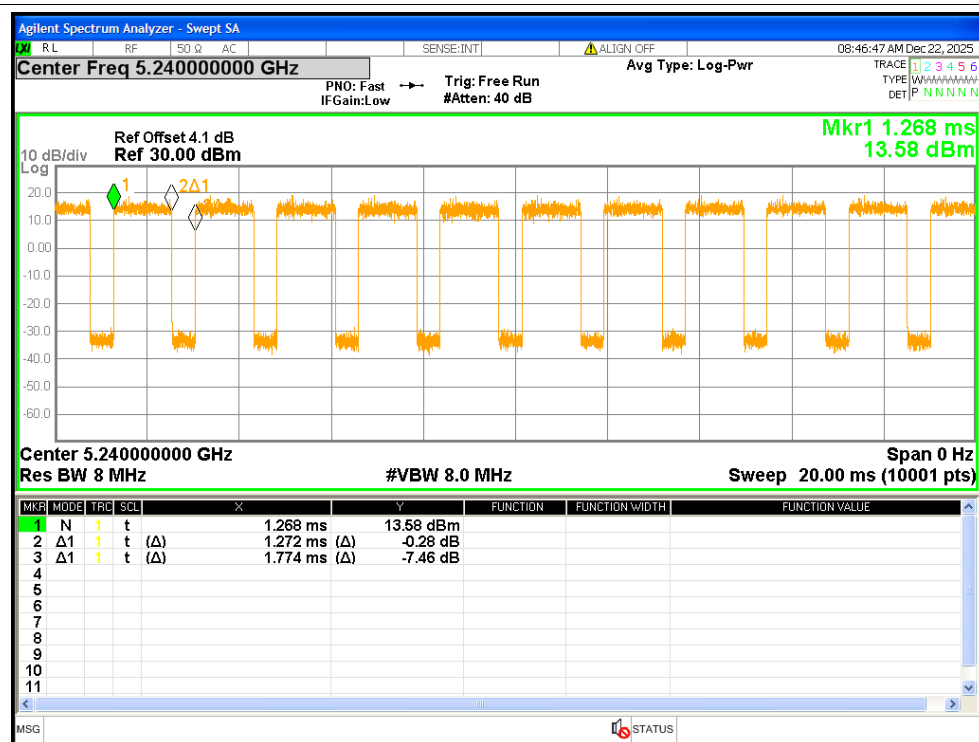
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	1.362	1.862	73.15	1.36	0.73
NVNT	a	5200	Ant1	1.362	1.864	73.07	1.36	0.73
NVNT	a	5240	Ant1	1.362	1.862	73.15	1.36	0.73
NVNT	a	5180	Ant2	1.362	1.862	73.15	1.36	0.73
NVNT	a	5200	Ant2	1.362	1.862	73.15	1.36	0.73
NVNT	a	5240	Ant2	1.362	1.864	73.07	1.36	0.73
NVNT	n20	5180	MIMO	1.274	1.774	71.82	1.44	0.78
NVNT	n20	5200	MIMO	1.274	1.774	71.82	1.44	0.78
NVNT	n20	5240	MIMO	1.272	1.774	71.7	1.44	0.79
NVNT	n40	5190	MIMO	0.633	1.134	55.82	2.53	1.58
NVNT	n40	5230	MIMO	0.634	1.134	55.91	2.53	1.58

Duty Cycle NVNT a 5240MHz Ant1

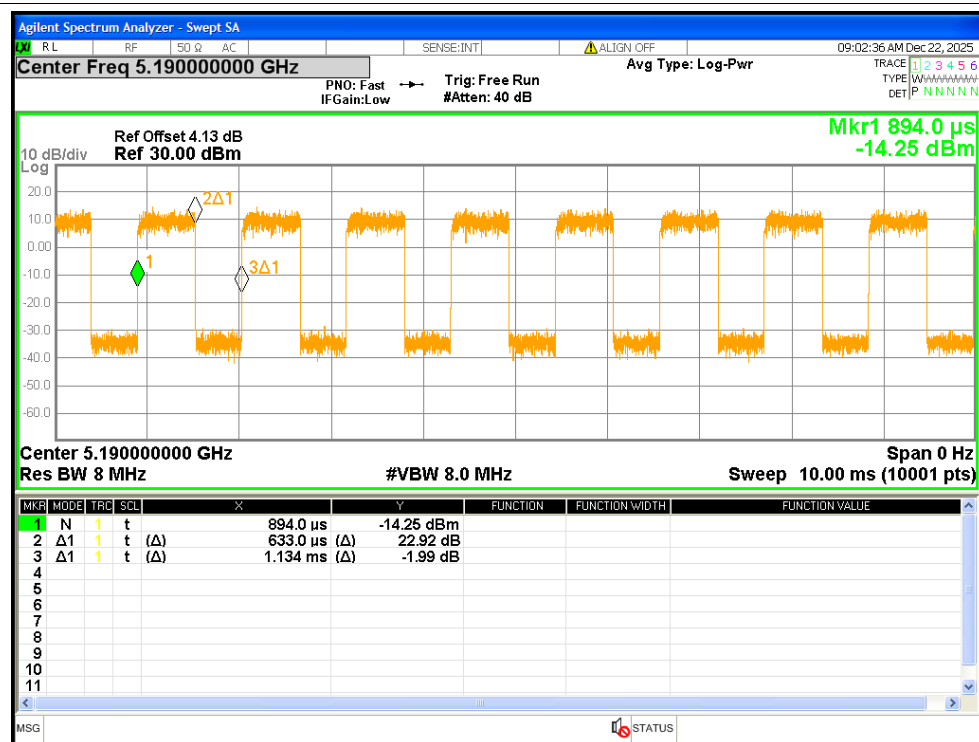
Report No.: STS2510118W06_Appendix 5G RLAN U-NII-1

Duty Cycle NVNT n20 5180MHz MIMO

Duty Cycle NVNT n20 5240MHz MIMO



Duty Cycle NVNT n40 5190MHz MIMO



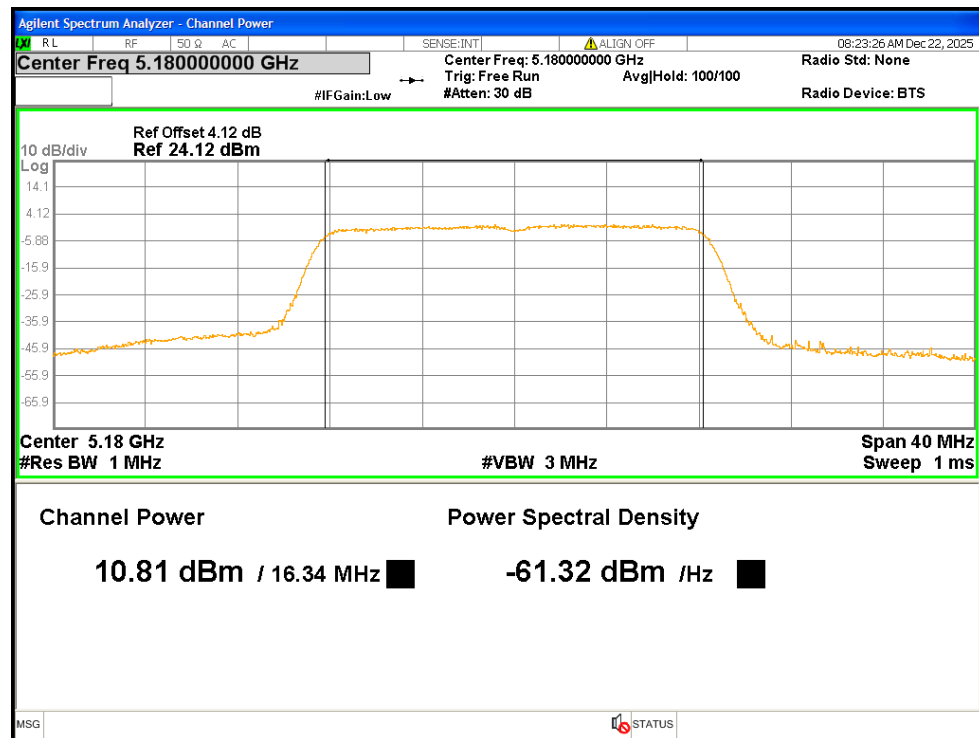
Duty Cycle NVNT n40 5230MHz MIMO

Maximum Conducted Output Power

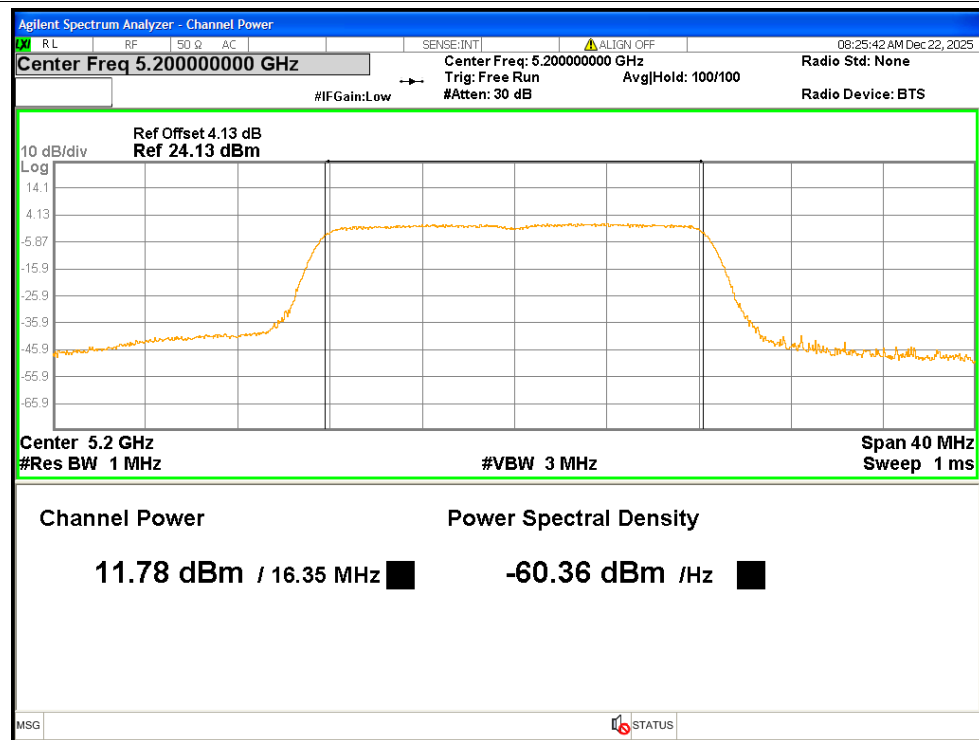
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.81	1.36	12.17	<=24	Pass
NVNT	a	5200	Ant1	11.78	1.36	13.14	<=24	Pass
NVNT	a	5240	Ant1	12.19	1.36	13.55	<=24	Pass
NVNT	a	5180	Ant2	10.56	1.36	11.92	<=24	Pass
NVNT	a	5200	Ant2	11.24	1.36	12.6	<=24	Pass
NVNT	a	5240	Ant2	10.86	1.36	12.22	<=24	Pass
NVNT	n20	5180	Ant1	9.08	1.44	10.52	<=24	Pass
NVNT	n20	5180	Ant2	7.29	1.44	8.73	<=24	Pass
NVNT	n20	5180	MIMO	-	-	12.73	<=23.96	Pass
NVNT	n20	5200	Ant1	10.17	1.44	11.61	<=24	Pass
NVNT	n20	5200	Ant2	7.59	1.44	9.03	<=24	Pass
NVNT	n20	5200	MIMO	-	-	13.52	<=23.96	Pass
NVNT	n20	5240	Ant1	10.17	1.44	11.61	<=24	Pass
NVNT	n20	5240	Ant2	7.44	1.44	8.88	<=24	Pass
NVNT	n20	5240	MIMO	-	-	13.47	<=23.96	Pass
NVNT	n40	5190	Ant1	8.11	2.53	10.64	<=24	Pass
NVNT	n40	5190	Ant2	6.13	2.53	8.66	<=24	Pass
NVNT	n40	5190	MIMO	-	-	12.77	<=23.96	Pass
NVNT	n40	5230	Ant1	9.46	2.53	11.99	<=24	Pass
NVNT	n40	5230	Ant2	6.06	2.53	8.59	<=24	Pass
NVNT	n40	5230	MIMO	-	-	13.62	<=23.96	Pass

Test Graphs

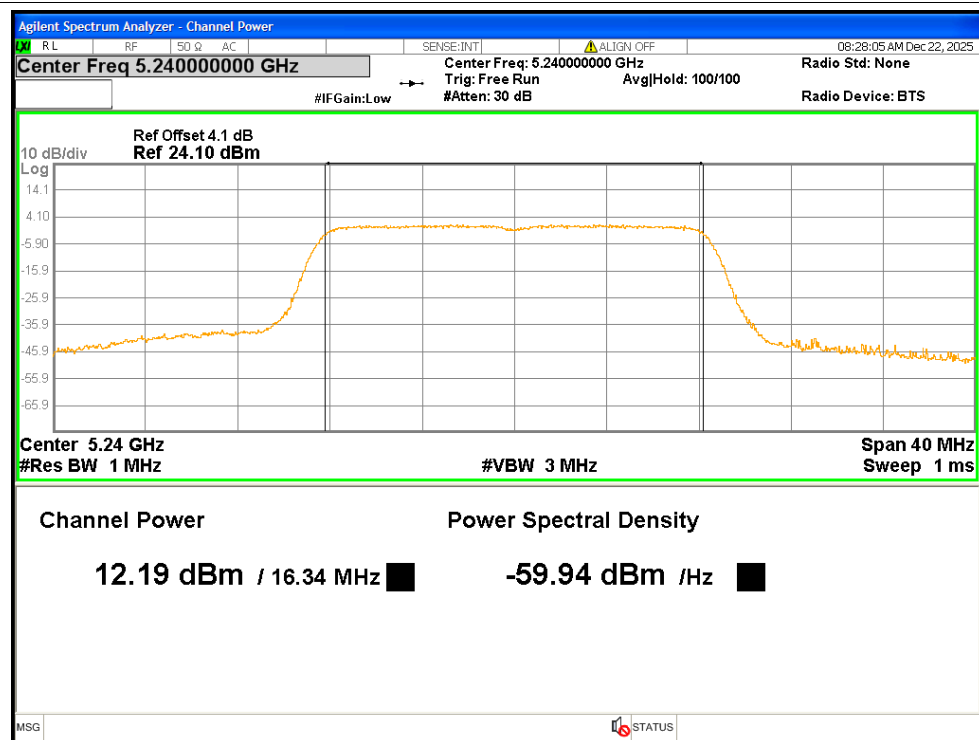
Power NVNT a 5180MHz Ant1



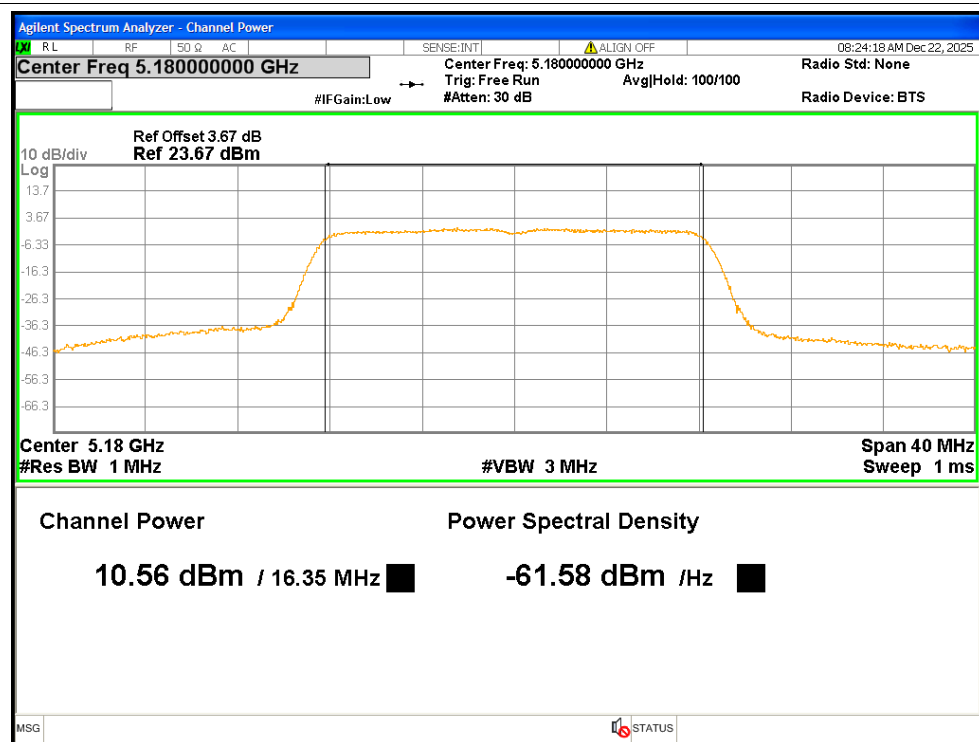
Power NVNT a 5200MHz Ant1



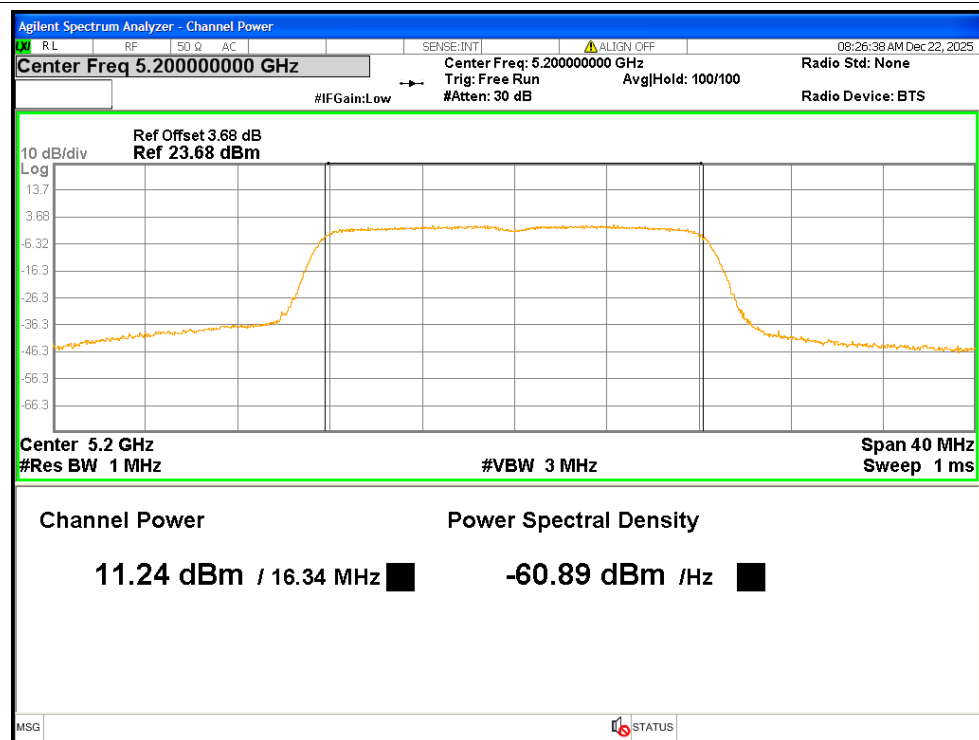
Power NVNT a 5240MHz Ant1



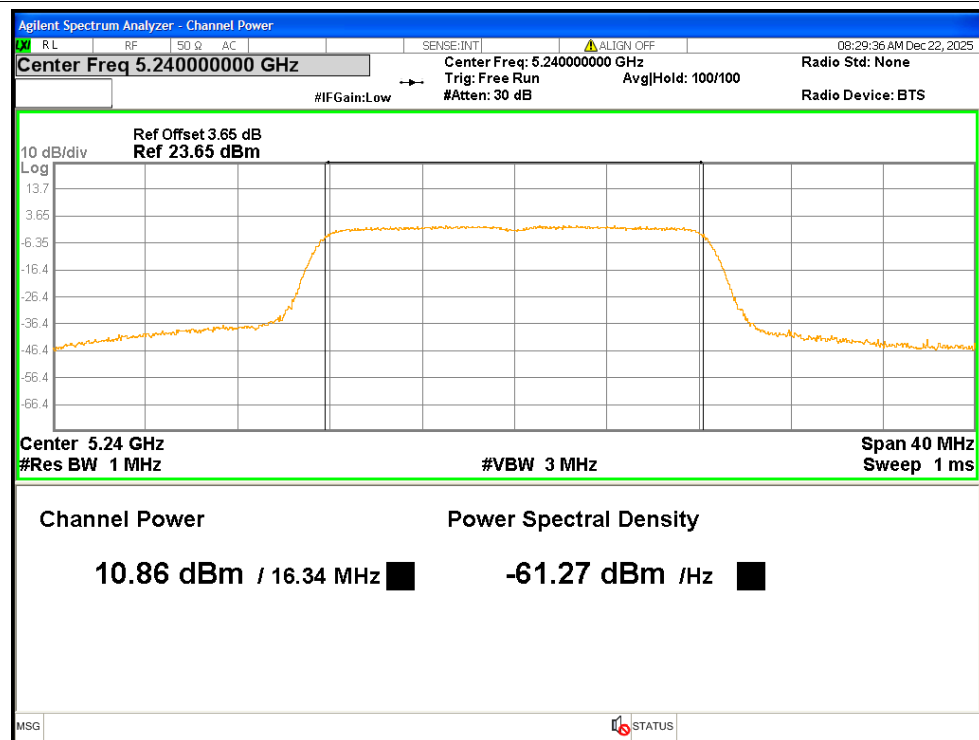
Power NVNT a 5180MHz Ant2



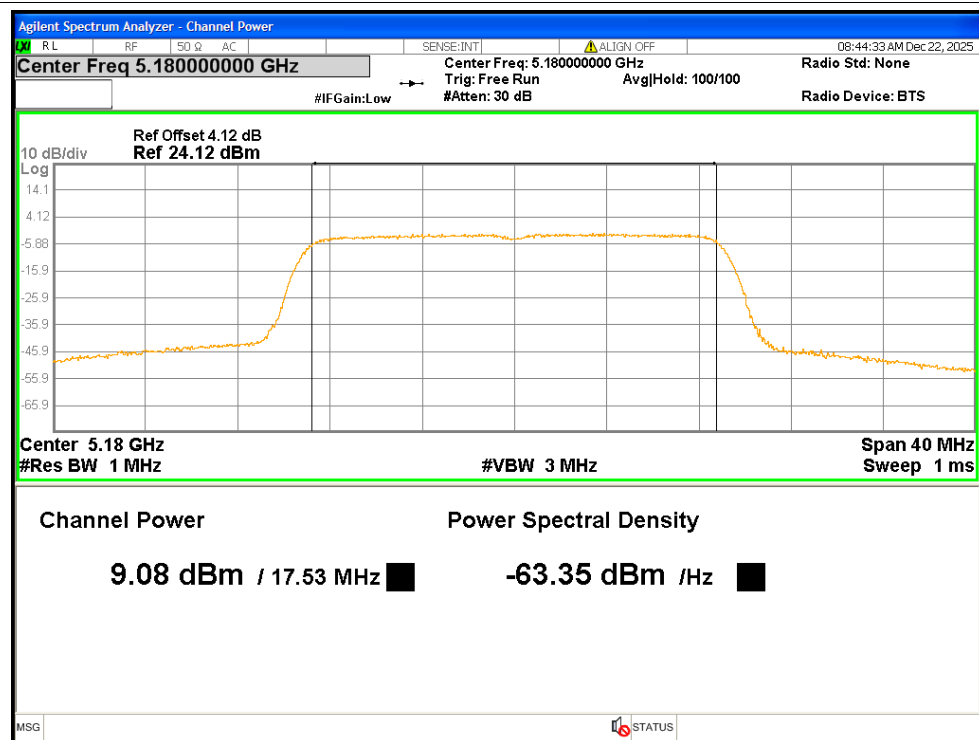
Power NVNT a 5200MHz Ant2



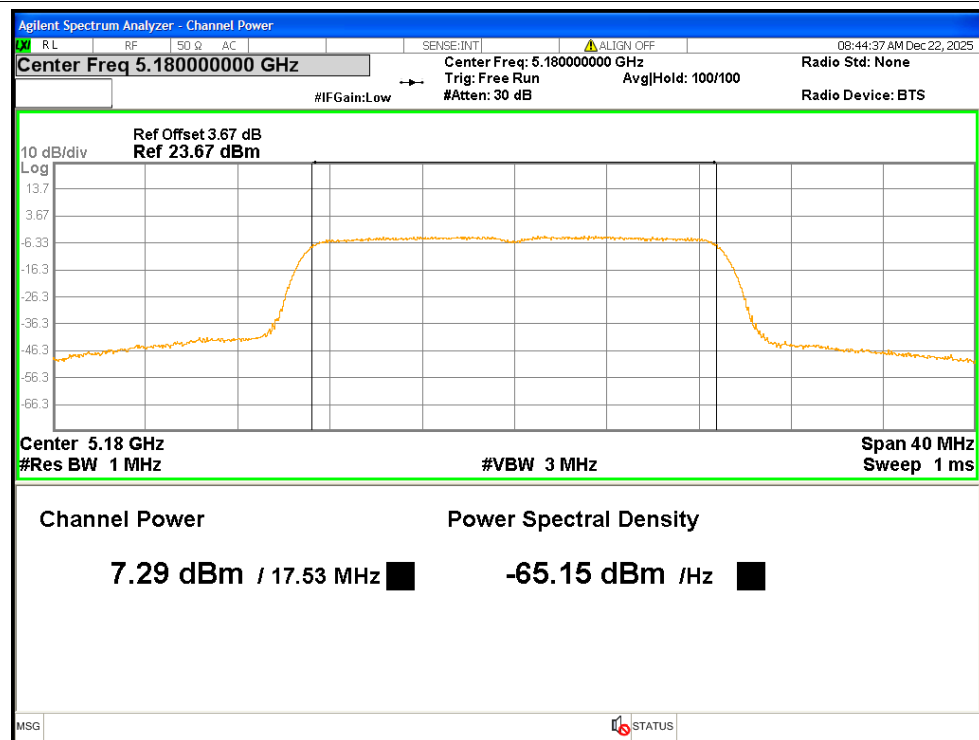
Power NVNT a 5240MHz Ant2



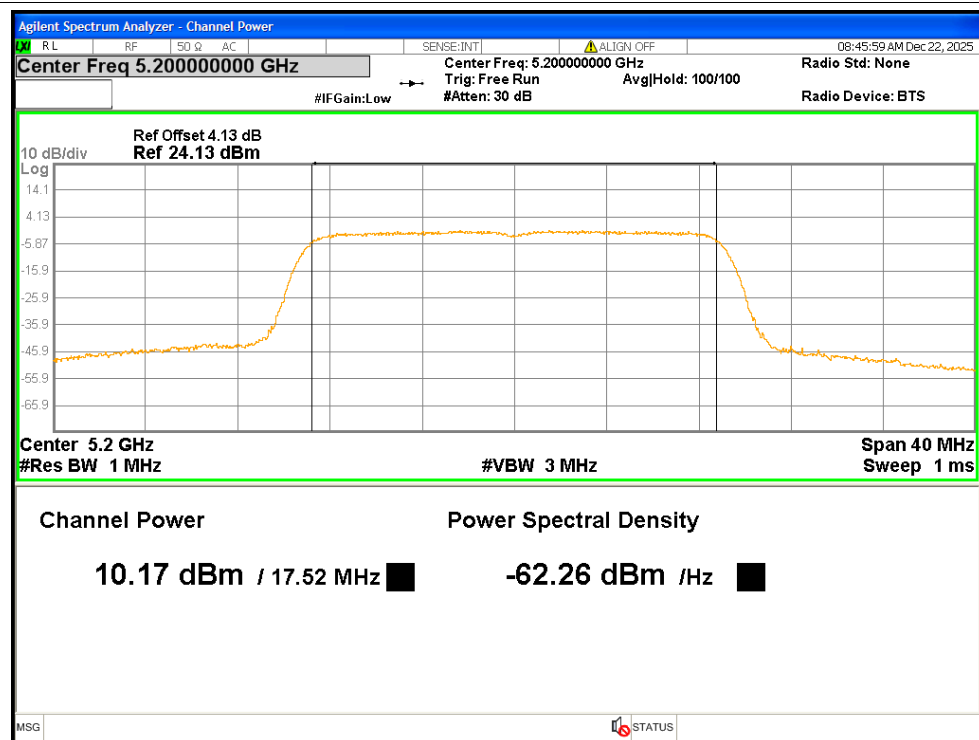
Power NVNT n20 5180MHz Ant1



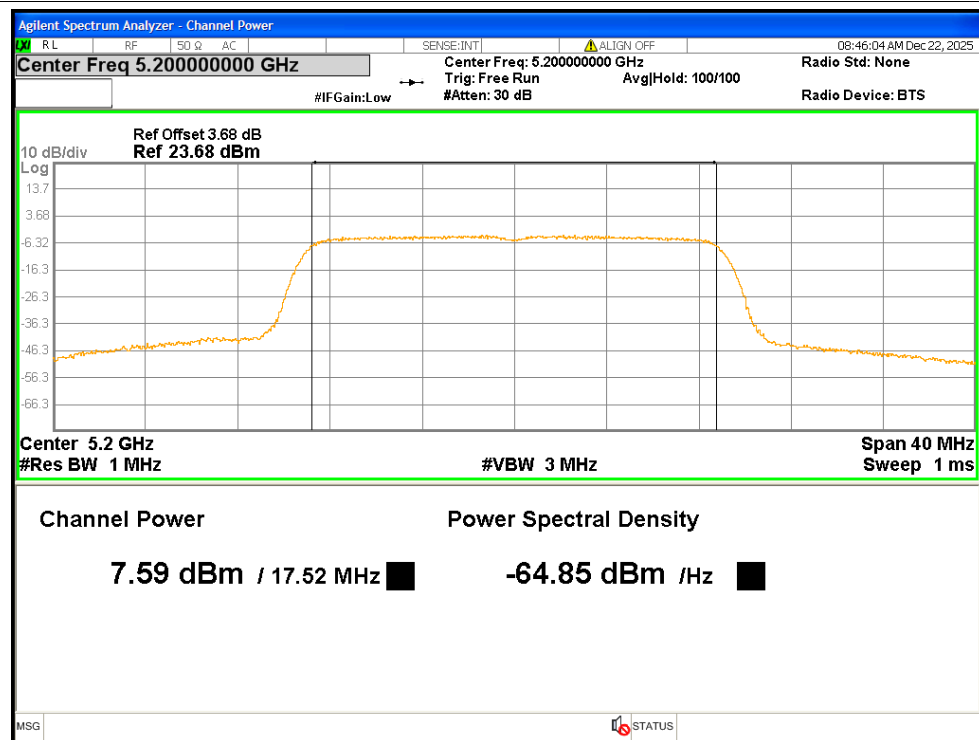
Power NVNT n20 5180MHz Ant2



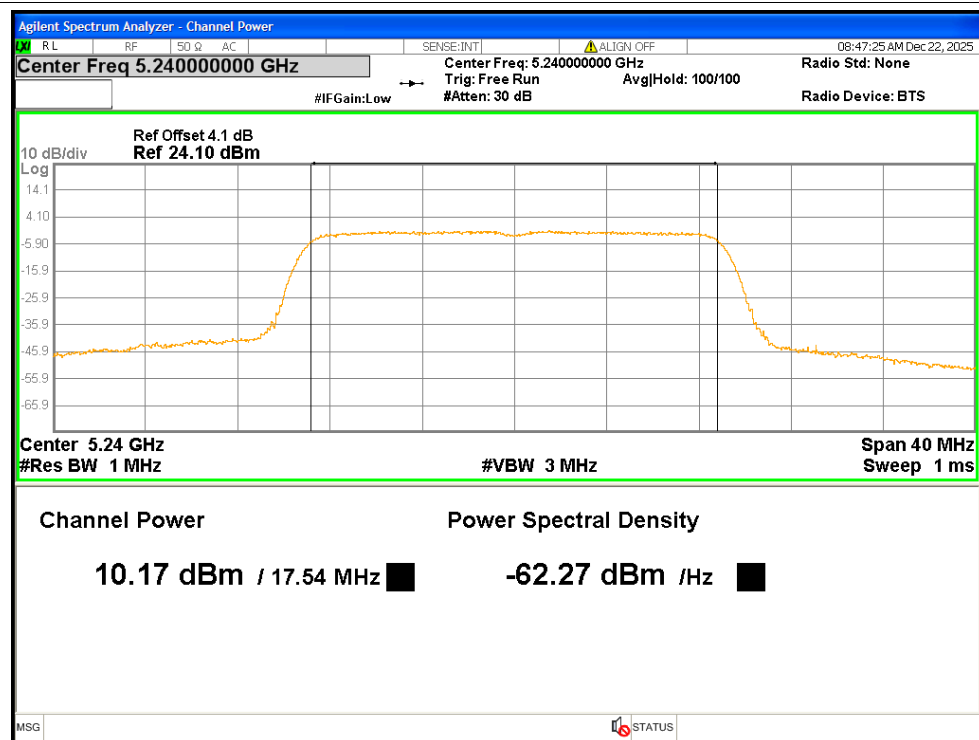
Power NVNT n20 5200MHz Ant1



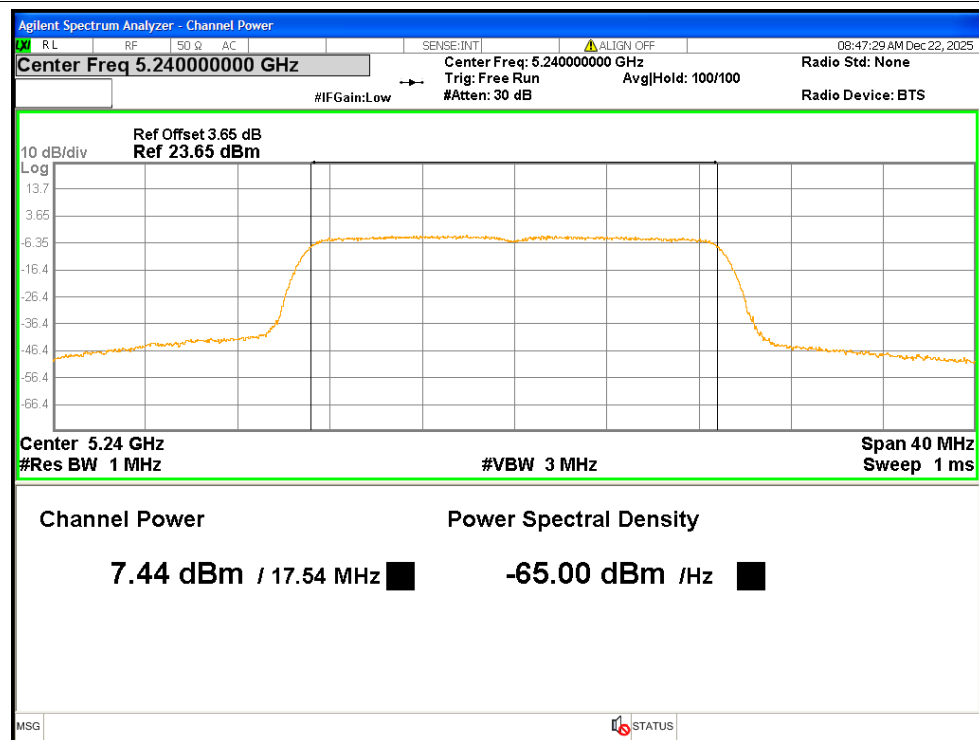
Power NVNT n20 5200MHz Ant2



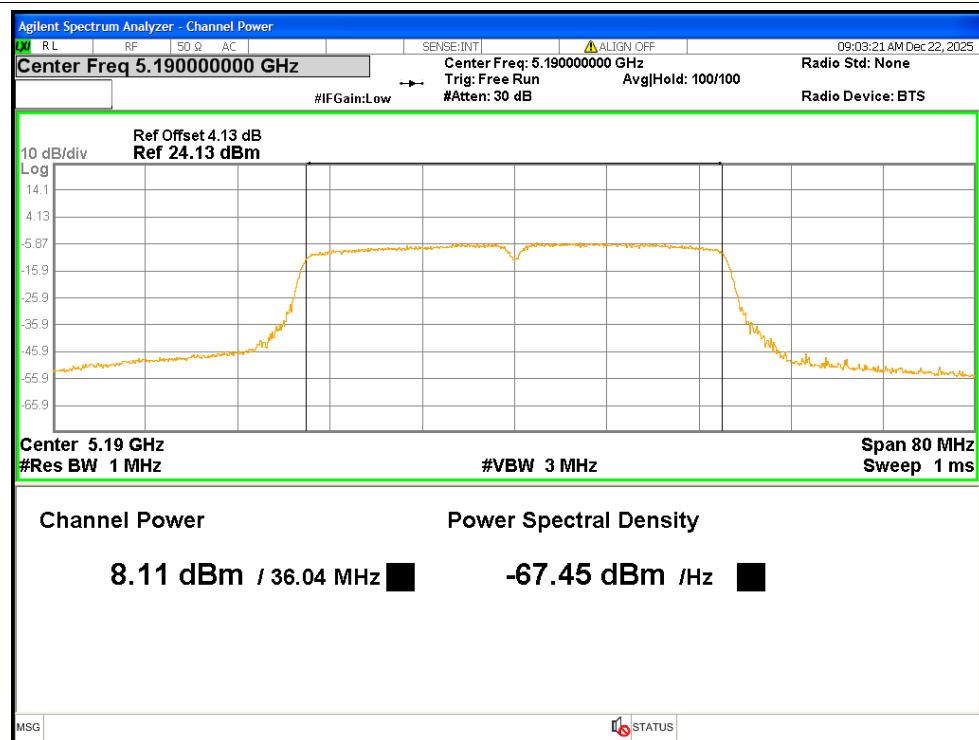
Power NVNT n20 5240MHz Ant1



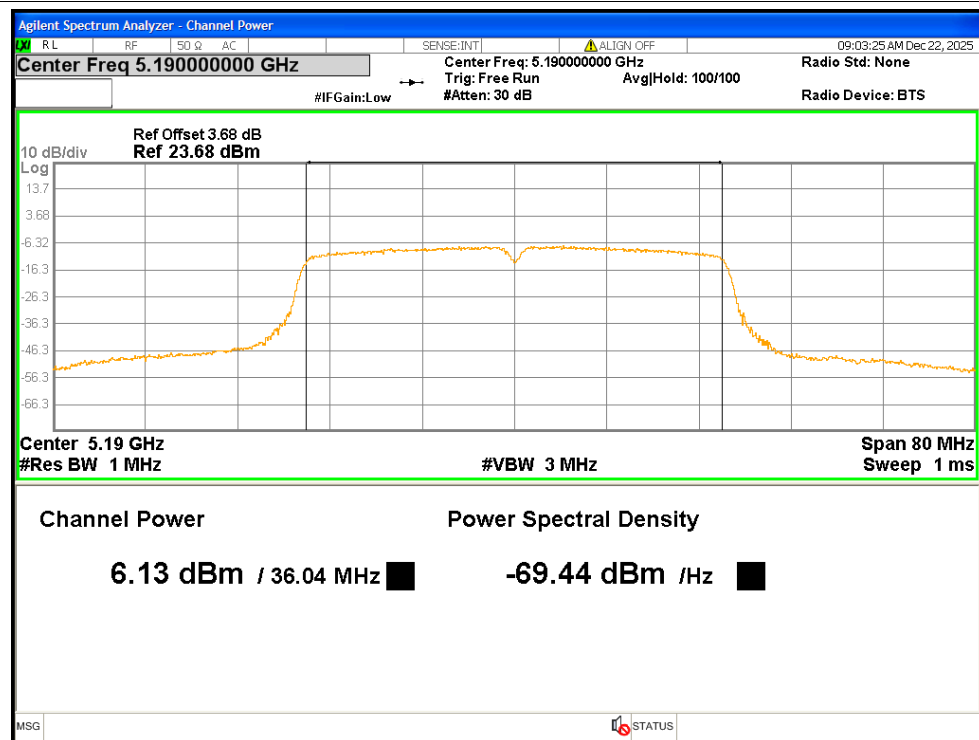
Power NVNT n20 5240MHz Ant2



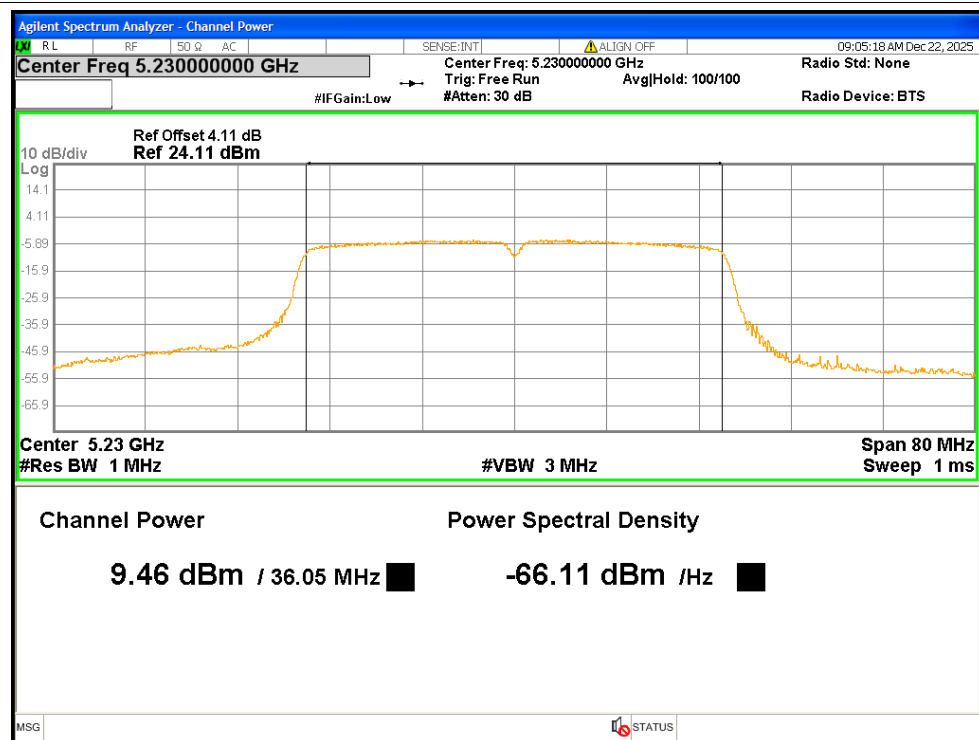
Power NVNT n40 5190MHz Ant1



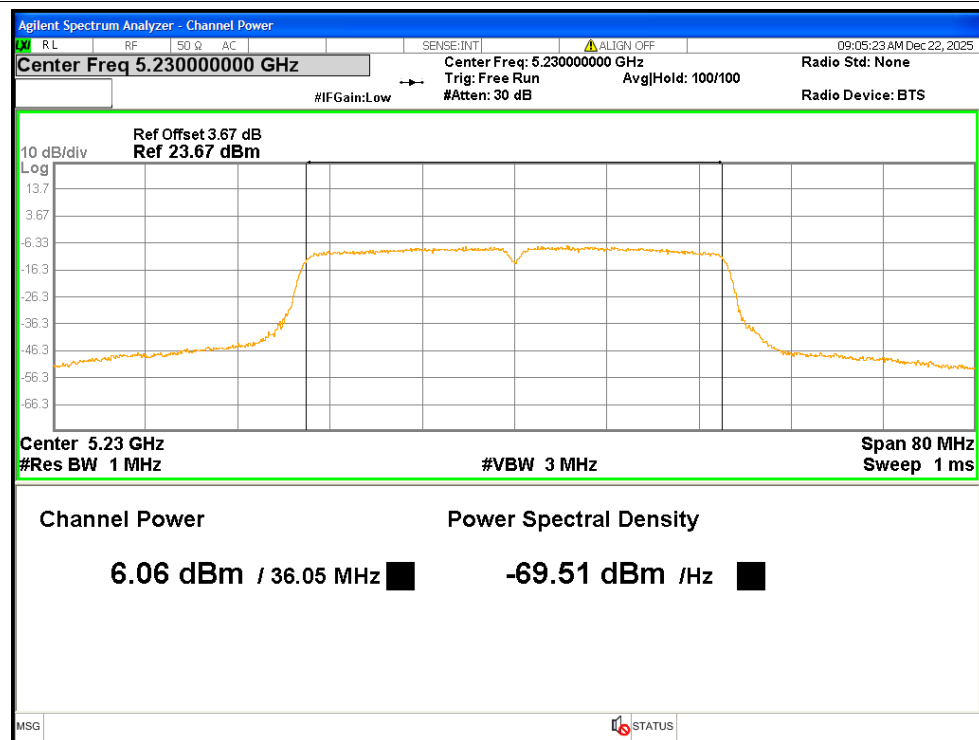
Power NVNT n40 5190MHz Ant2



Power NVNT n40 5230MHz Ant1



Power NVNT n40 5230MHz Ant2

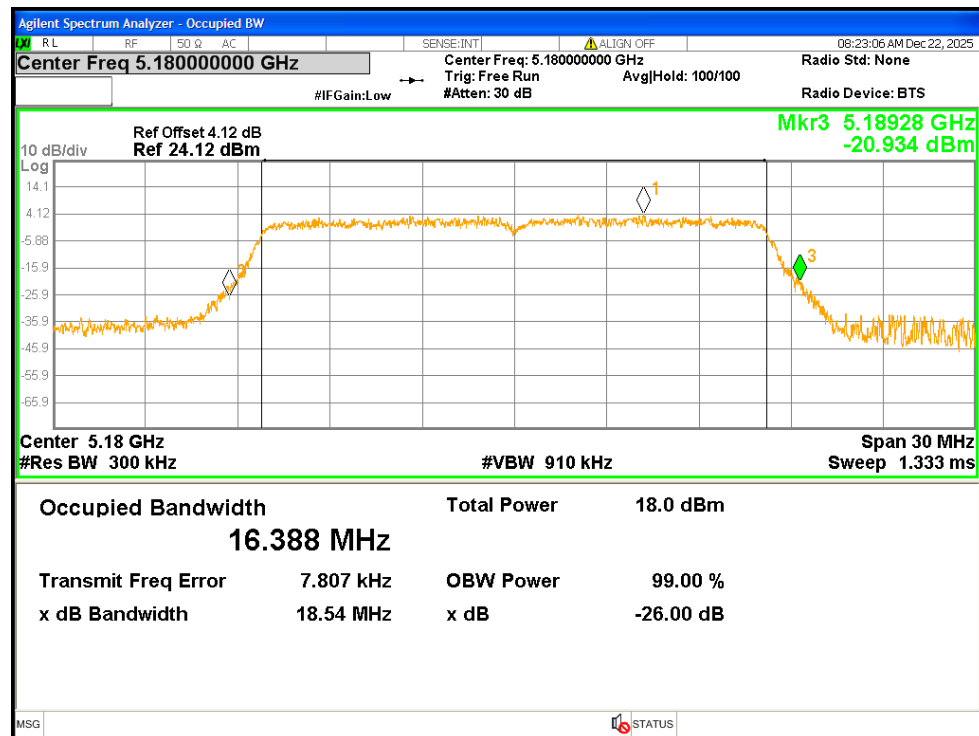


-26dB Bandwidth

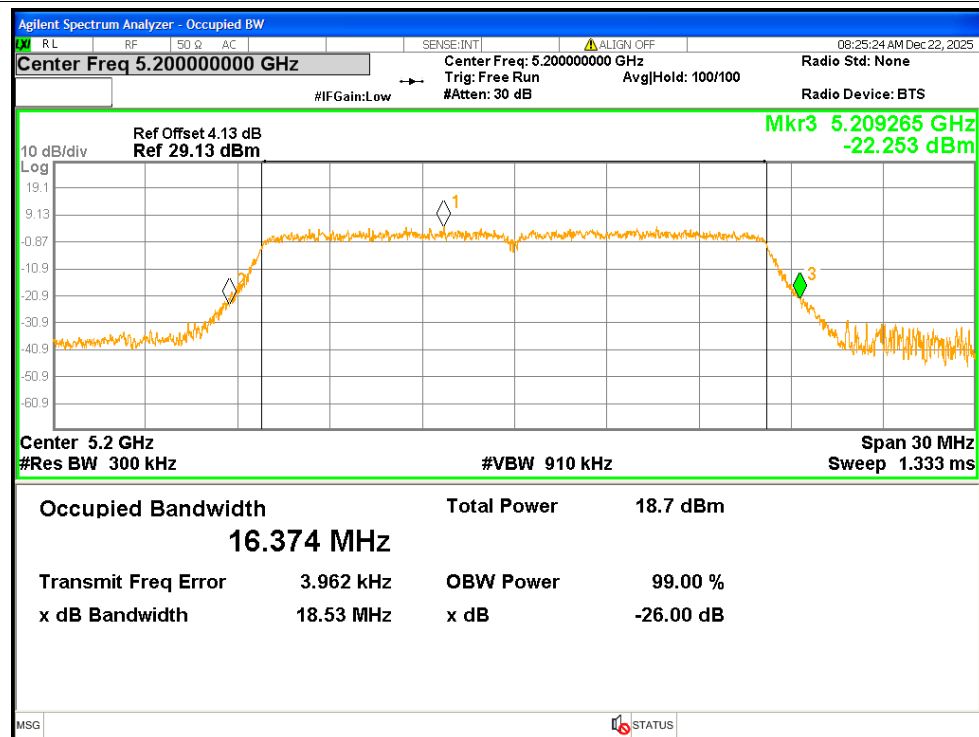
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	18.54	Pass
NVNT	a	5200	Ant1	18.53	Pass
NVNT	a	5240	Ant1	18.5	Pass
NVNT	a	5180	Ant2	18.48	Pass
NVNT	a	5200	Ant2	18.5	Pass
NVNT	a	5240	Ant2	18.53	Pass
NVNT	n20	5180	Ant1	19.51	Pass
NVNT	n20	5180	Ant2	19.56	Pass
NVNT	n20	5200	Ant1	19.53	Pass
NVNT	n20	5200	Ant2	19.55	Pass
NVNT	n20	5240	Ant1	19.51	Pass
NVNT	n20	5240	Ant2	19.5	Pass
NVNT	n40	5190	Ant1	41.16	Pass
NVNT	n40	5190	Ant2	41.11	Pass
NVNT	n40	5230	Ant1	41.38	Pass
NVNT	n40	5230	Ant2	41.11	Pass

Test Graphs

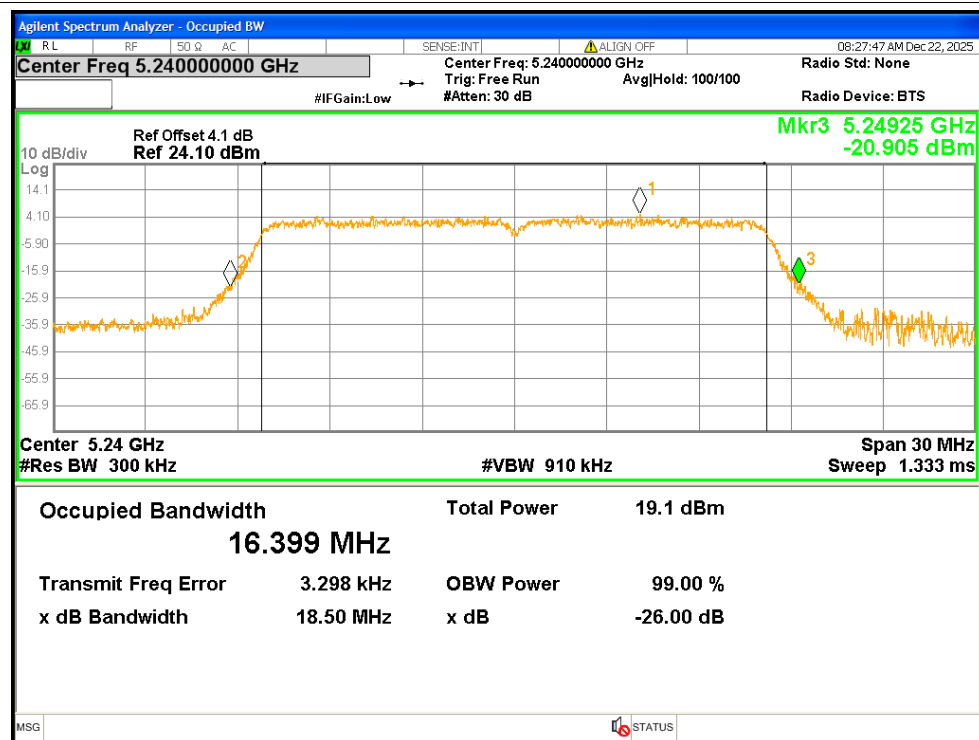
-26dB Bandwidth NVNT a 5180MHz Ant1



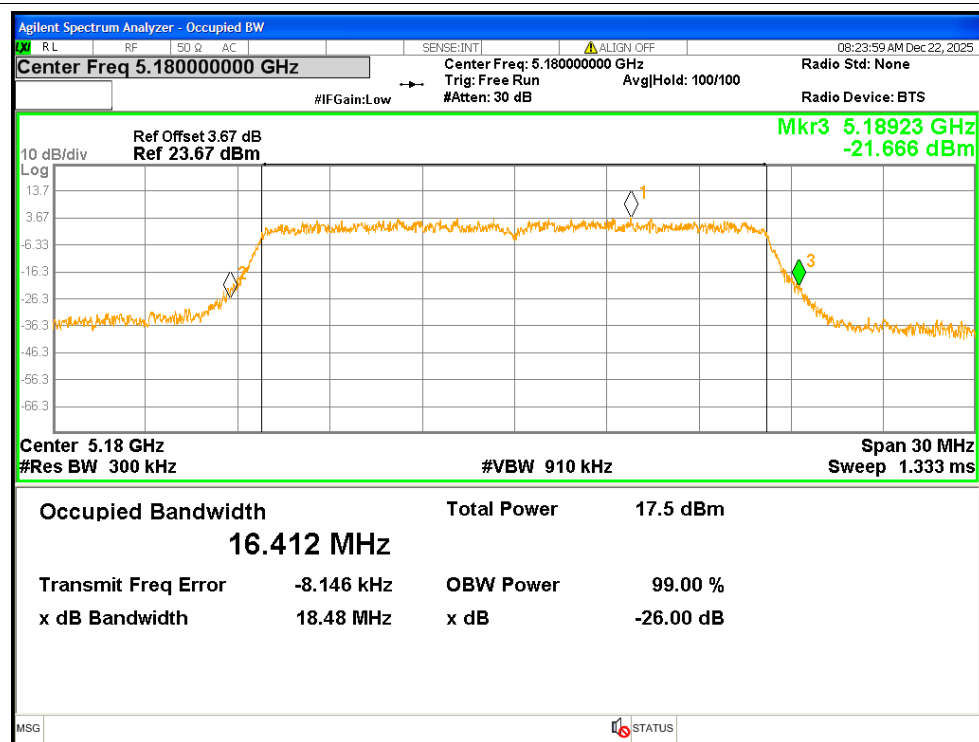
-26dB Bandwidth NVNT a 5200MHz Ant1



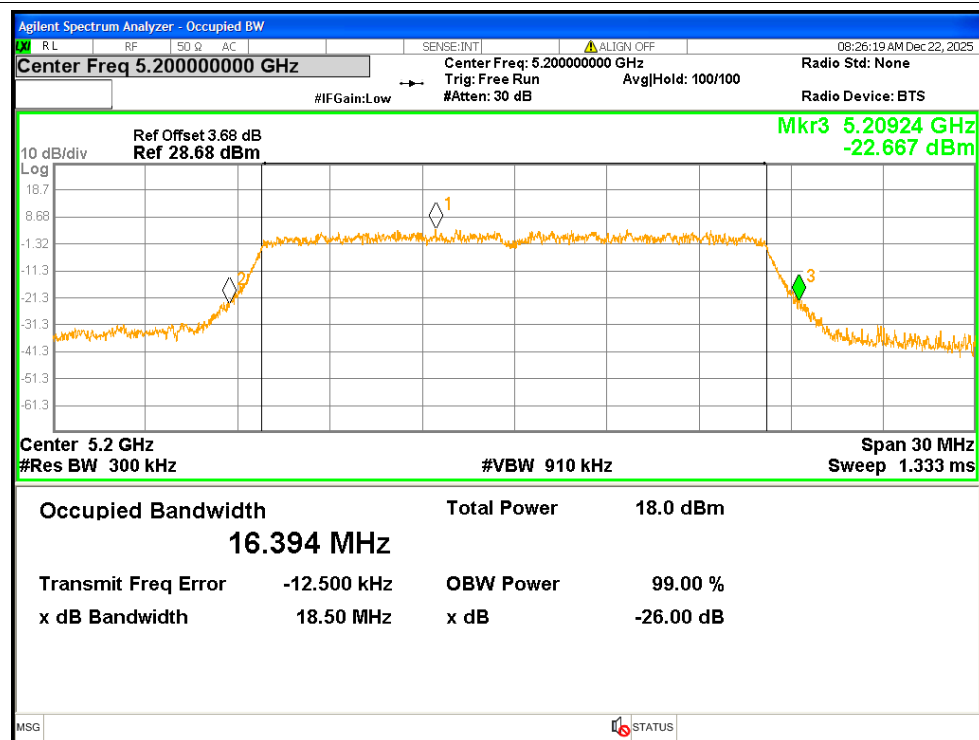
-26dB Bandwidth NVNT a 5240MHz Ant1



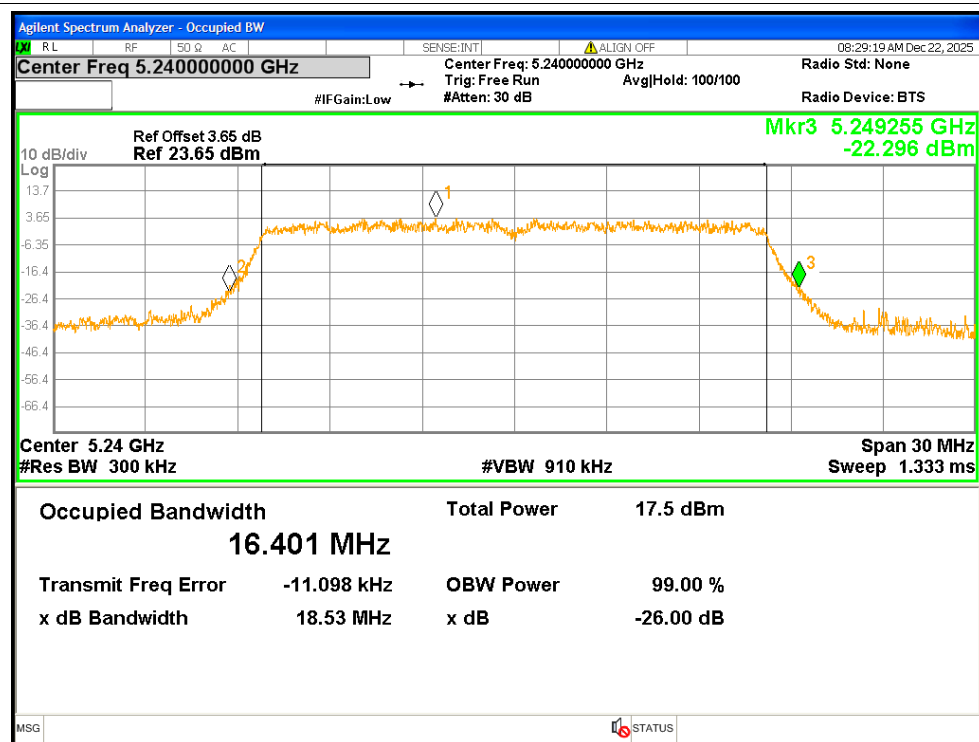
-26dB Bandwidth NVNT a 5180MHz Ant2



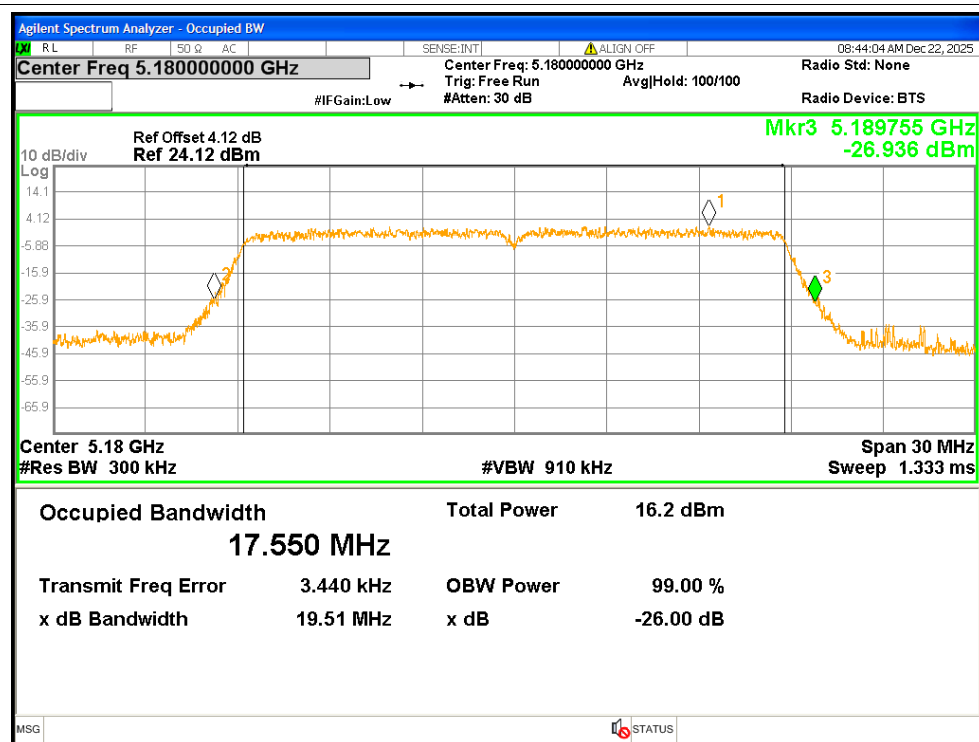
-26dB Bandwidth NVNT a 5200MHz Ant2



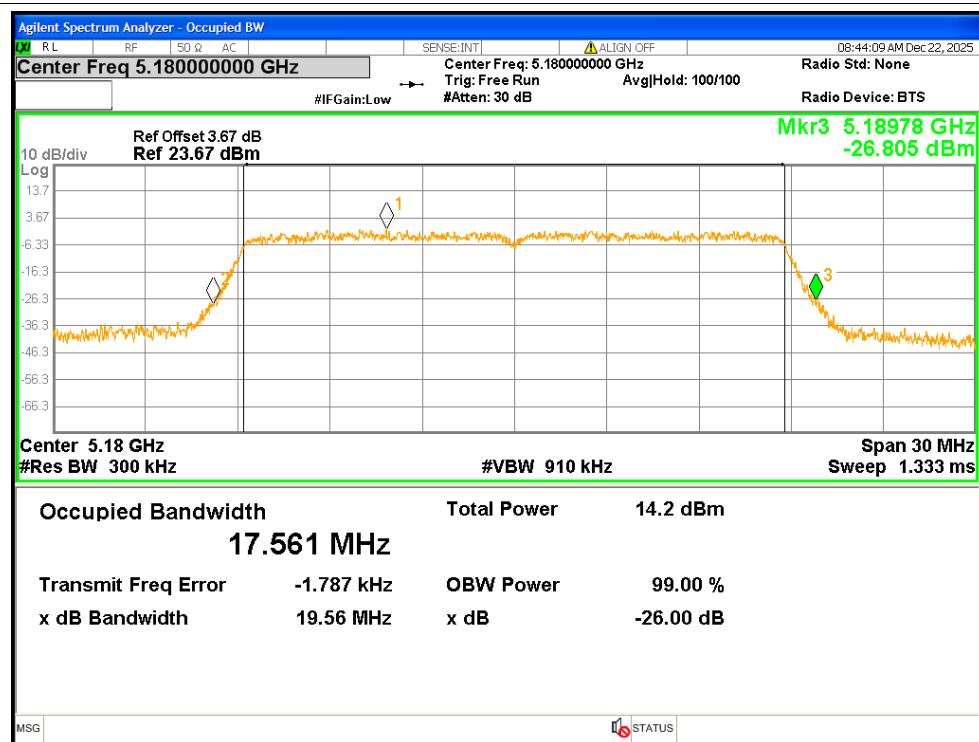
-26dB Bandwidth NVNT a 5240MHz Ant2



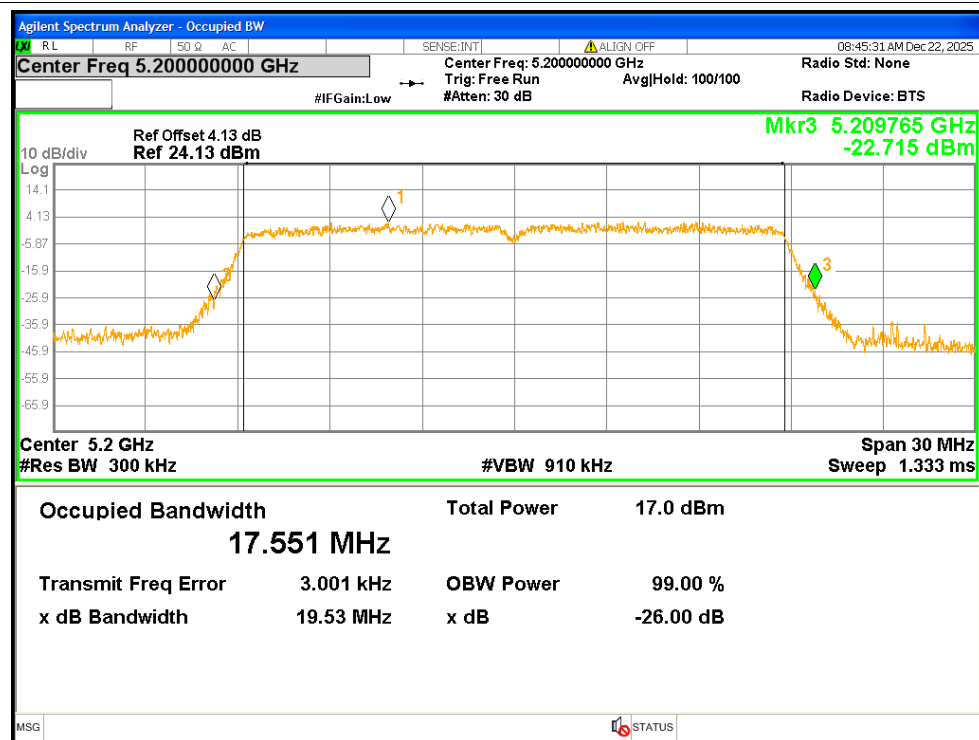
-26dB Bandwidth NVNT n20 5180MHz Ant1



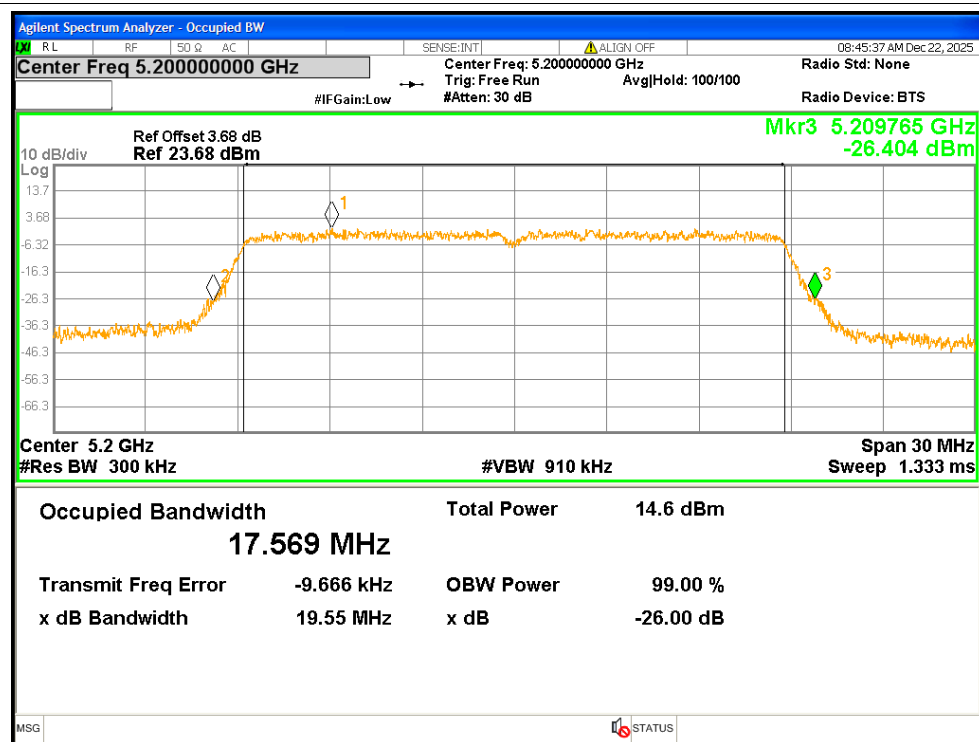
-26dB Bandwidth NVNT n20 5180MHz Ant2



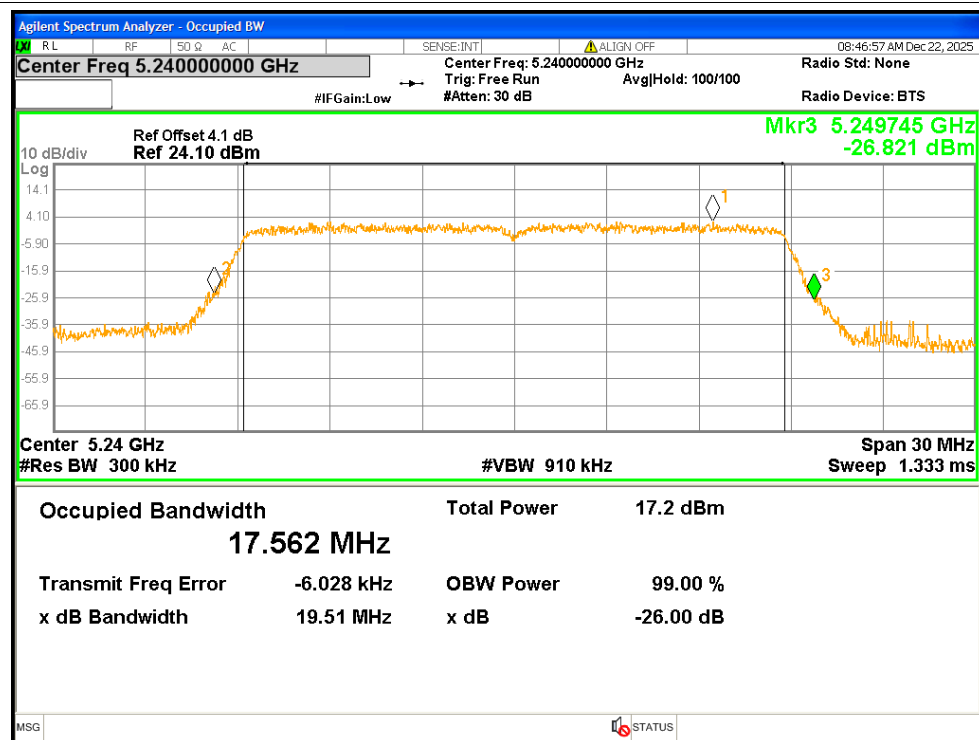
-26dB Bandwidth NVNT n20 5200MHz Ant1



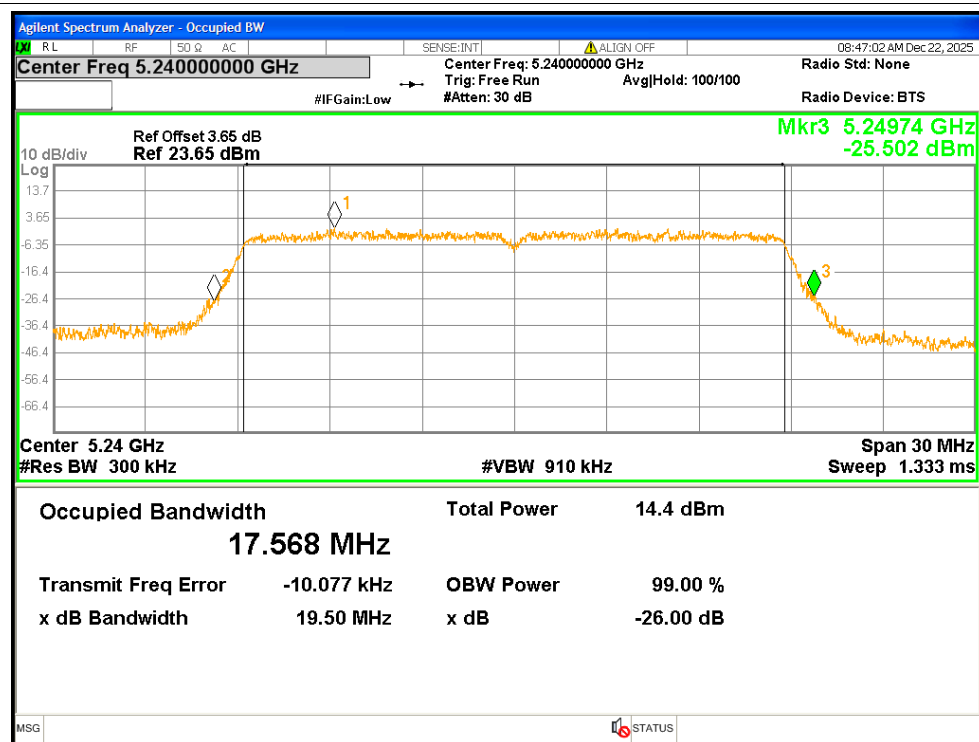
-26dB Bandwidth NVNT n20 5200MHz Ant2



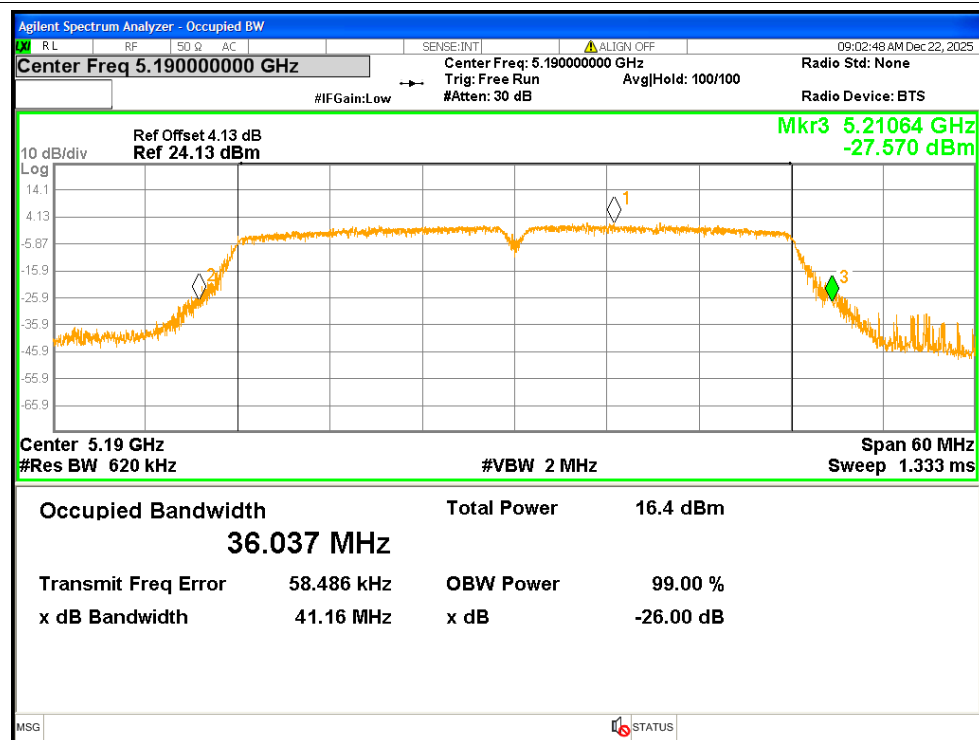
-26dB Bandwidth NVNT n20 5240MHz Ant1



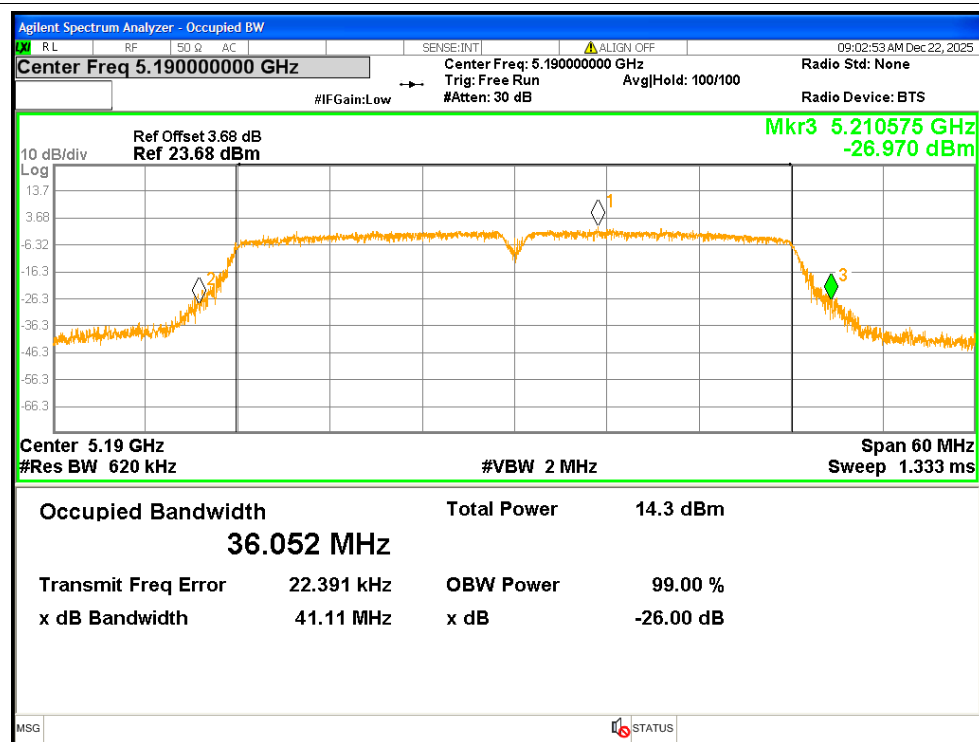
-26dB Bandwidth NVNT n20 5240MHz Ant2



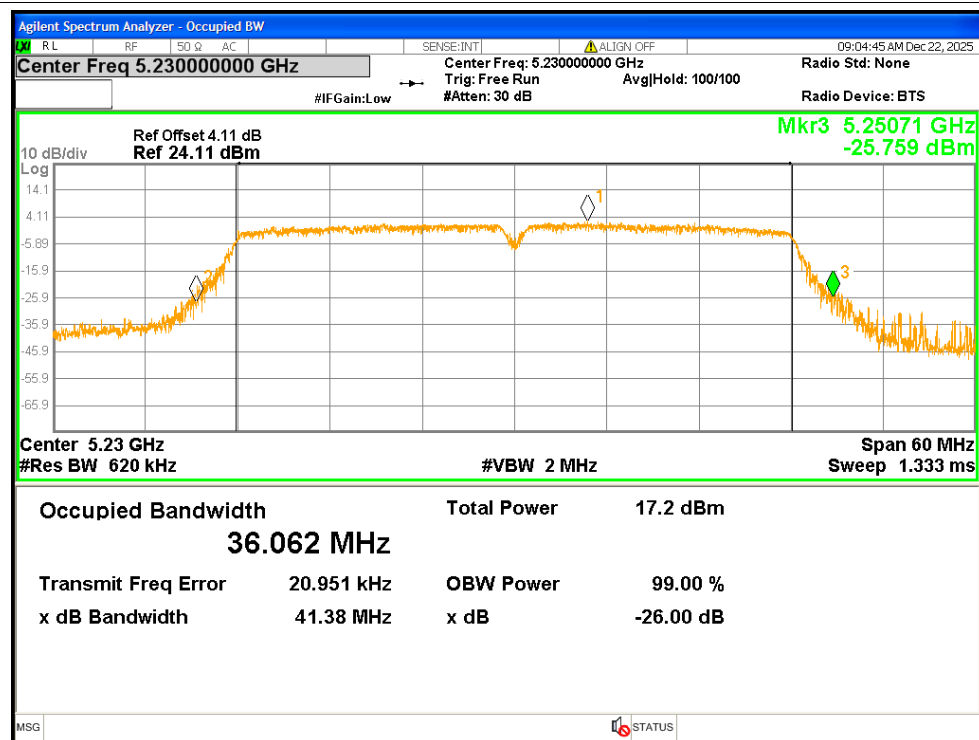
-26dB Bandwidth NVNT n40 5190MHz Ant1



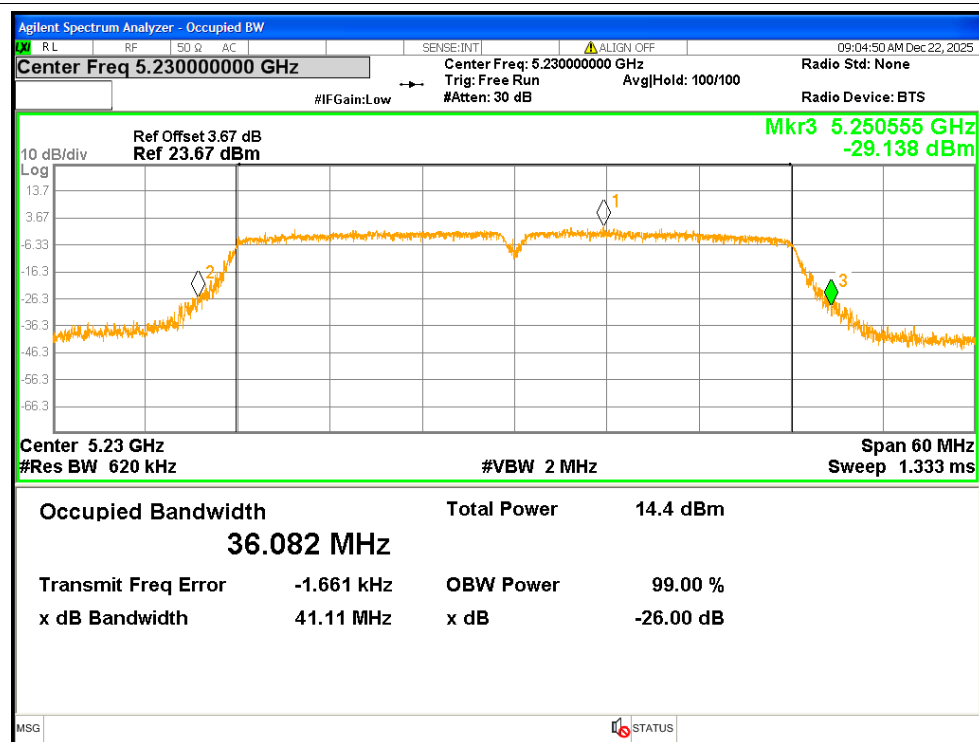
-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant2

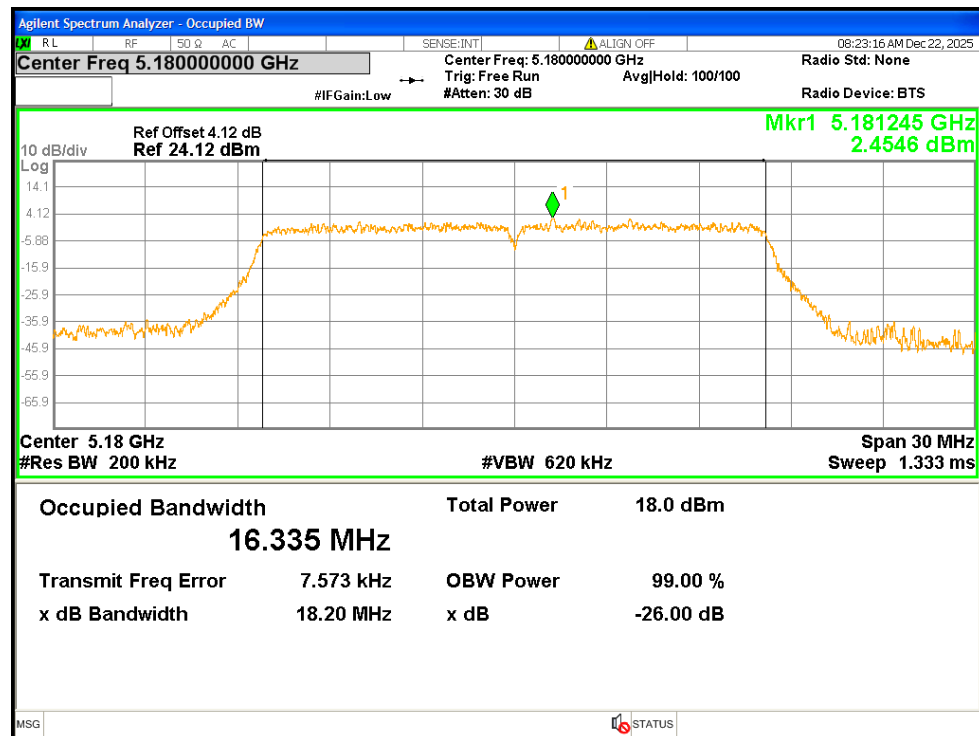


Occupied Channel Bandwidth

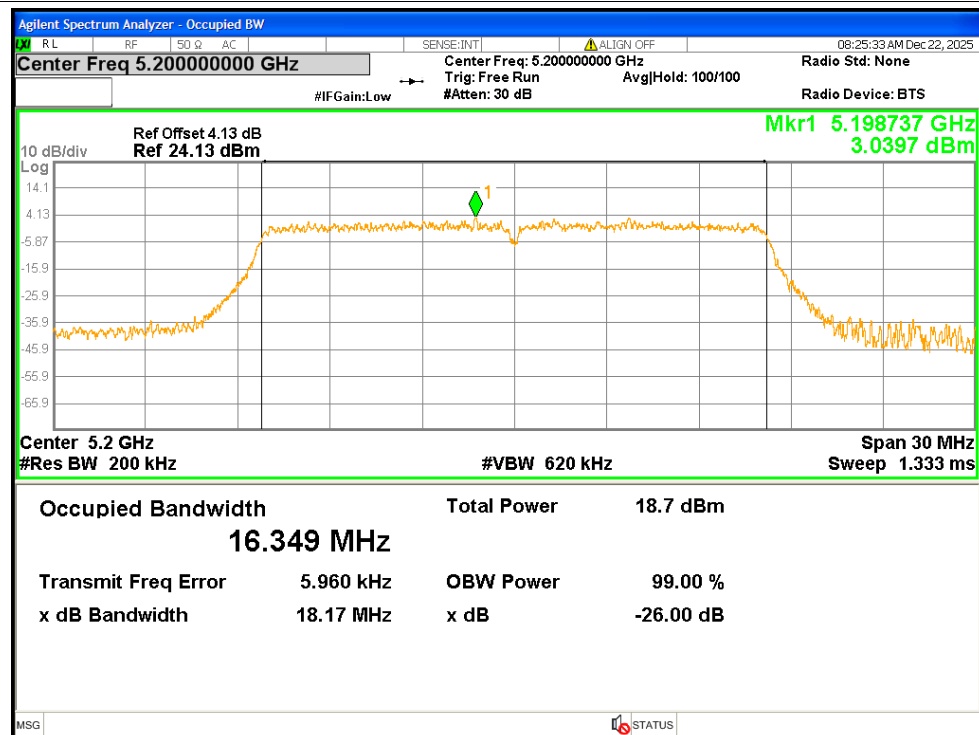
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.335
NVNT	a	5200	Ant1	16.349
NVNT	a	5240	Ant1	16.339
NVNT	a	5180	Ant2	16.353
NVNT	a	5200	Ant2	16.341
NVNT	a	5240	Ant2	16.34
NVNT	n20	5180	Ant1	17.529
NVNT	n20	5180	Ant2	17.529
NVNT	n20	5200	Ant1	17.519
NVNT	n20	5200	Ant2	17.518
NVNT	n20	5240	Ant1	17.537
NVNT	n20	5240	Ant2	17.527
NVNT	n40	5190	Ant1	35.991
NVNT	n40	5190	Ant2	36.04
NVNT	n40	5230	Ant1	36.047
NVNT	n40	5230	Ant2	36.045

Test Graphs

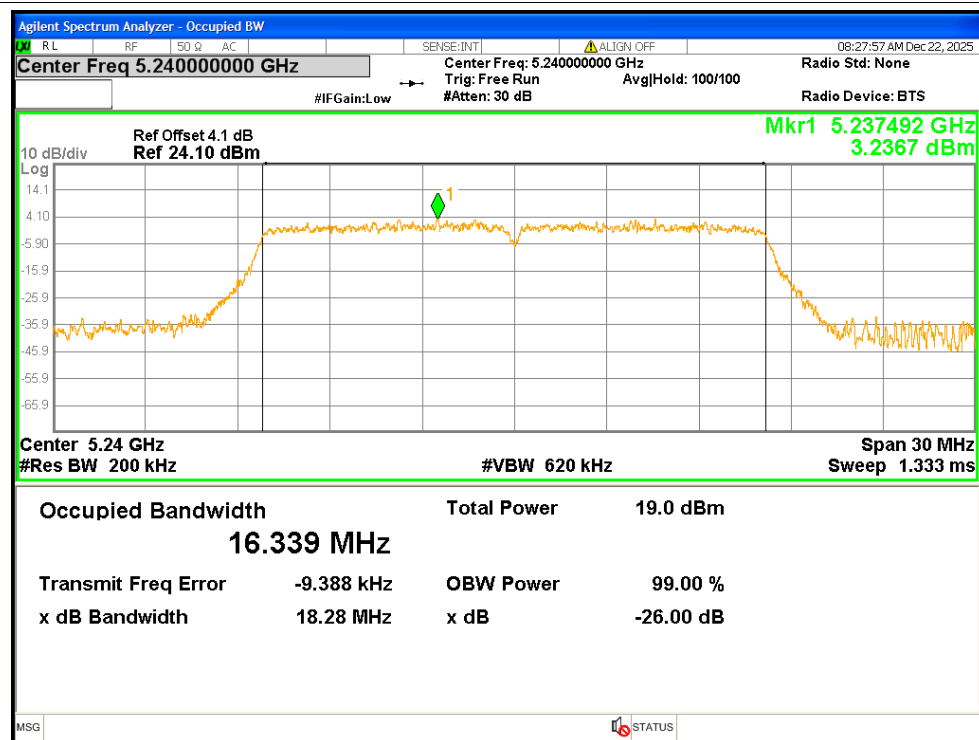
OBW NVNT a 5180MHz Ant1



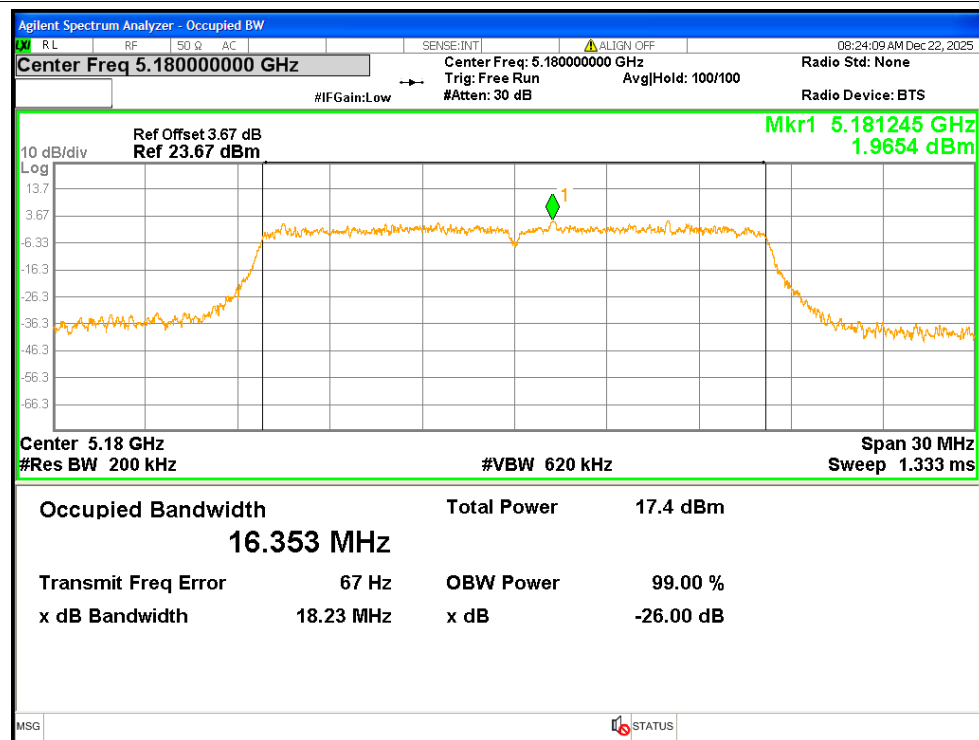
OBW NVNT a 5200MHz Ant1



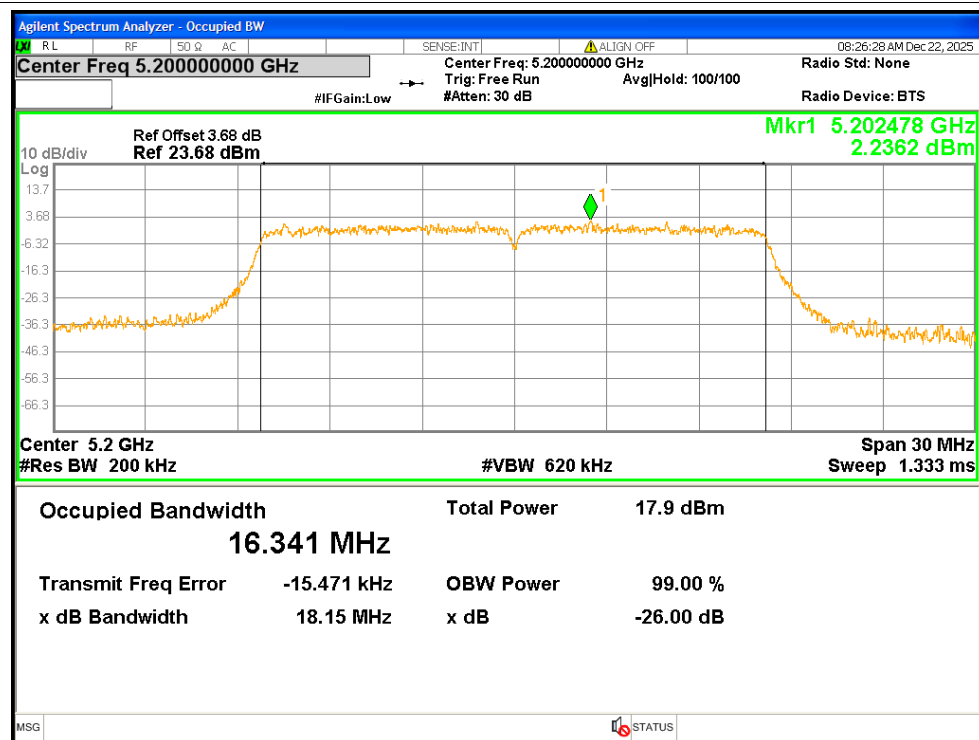
OBW NVNT a 5240MHz Ant1



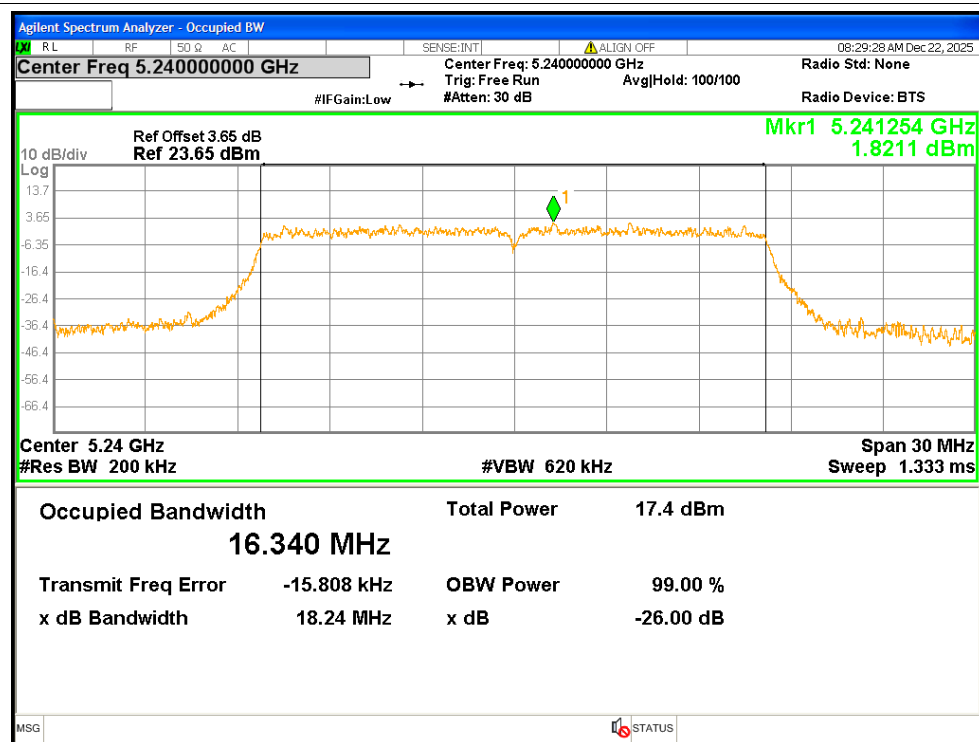
OBW NVNT a 5180MHz Ant2



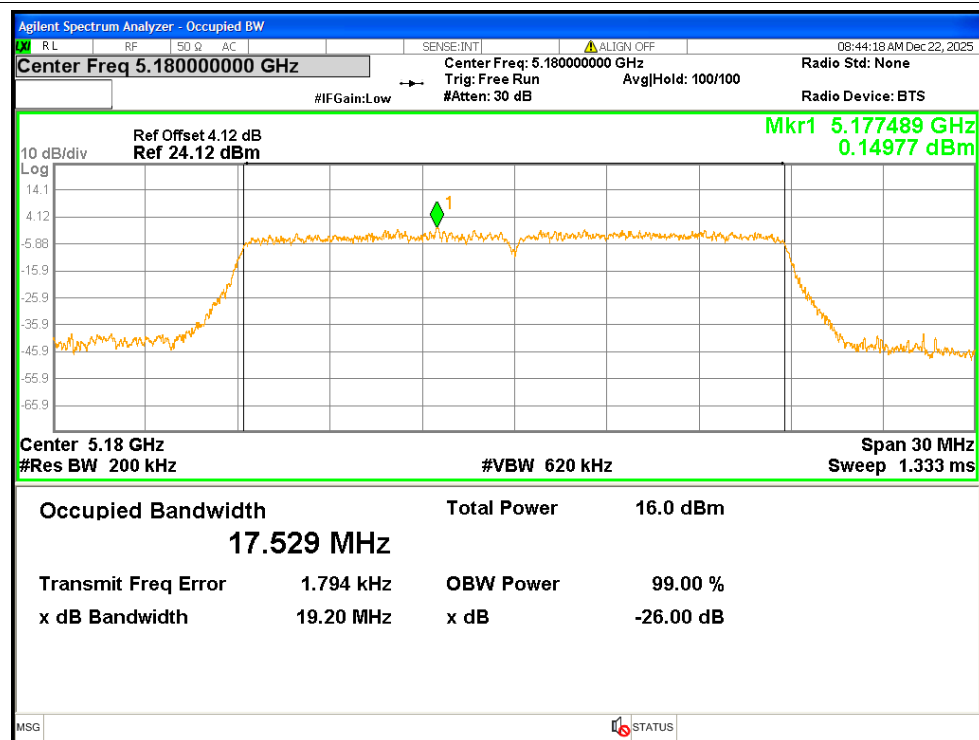
OBW NVNT a 5200MHz Ant2



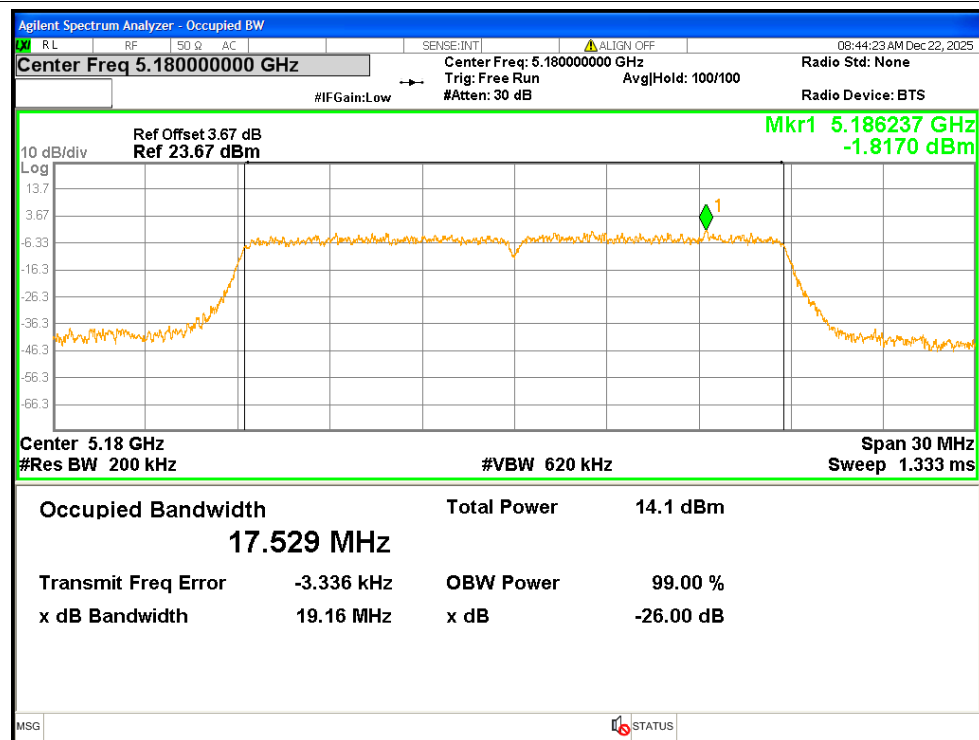
OBW NVNT a 5240MHz Ant2



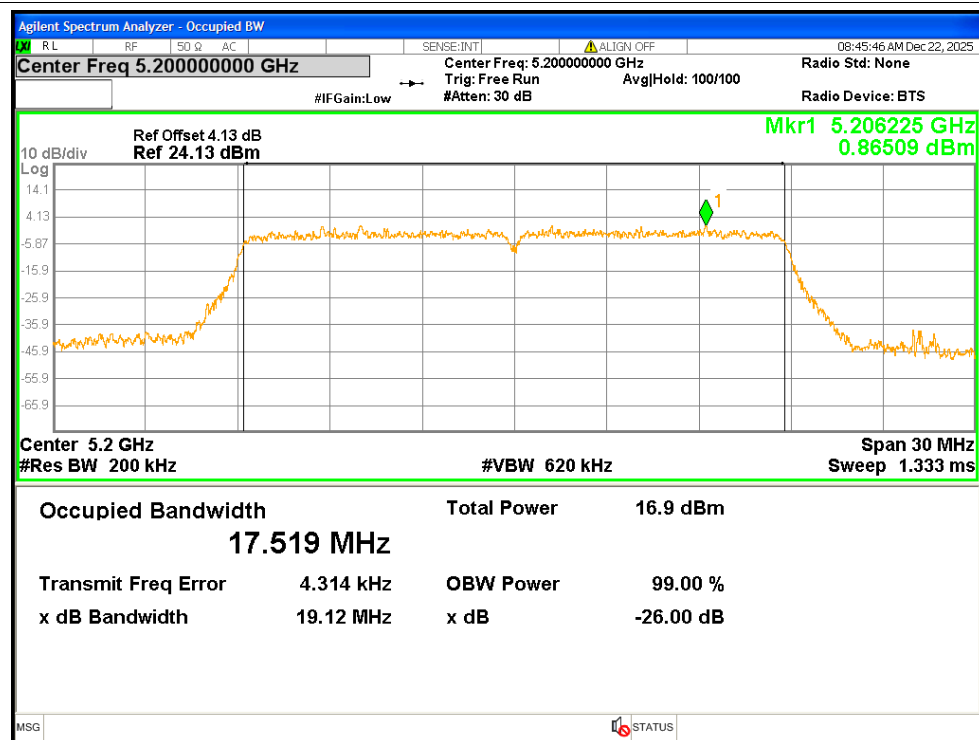
OBW NVNT n20 5180MHz Ant1



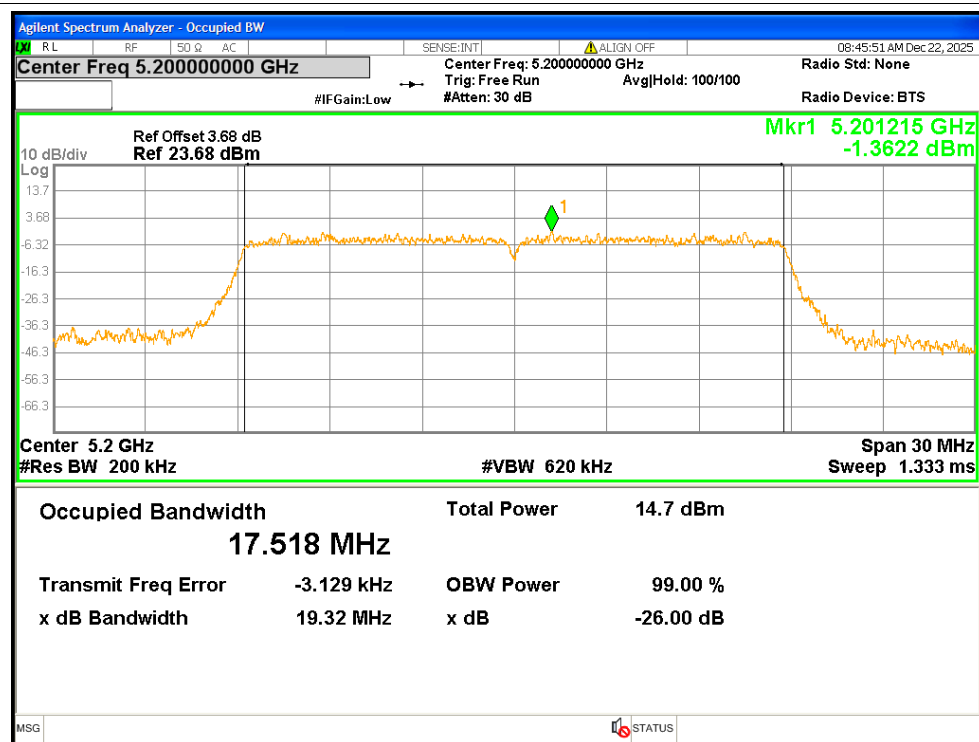
OBW NVNT n20 5180MHz Ant2



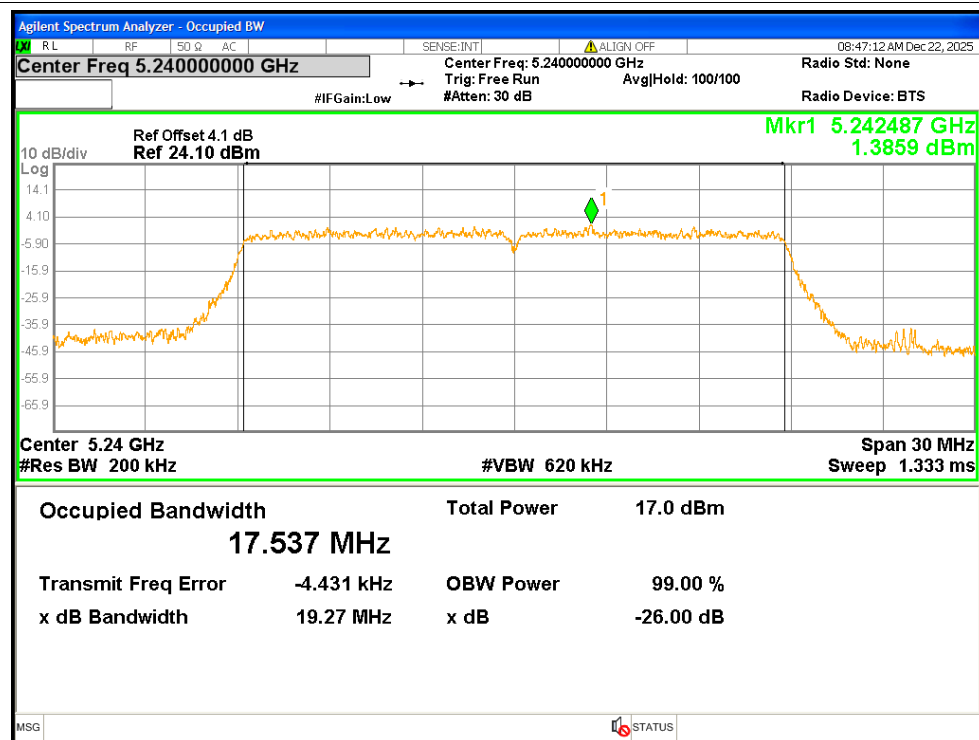
OBW NVNT n20 5200MHz Ant1



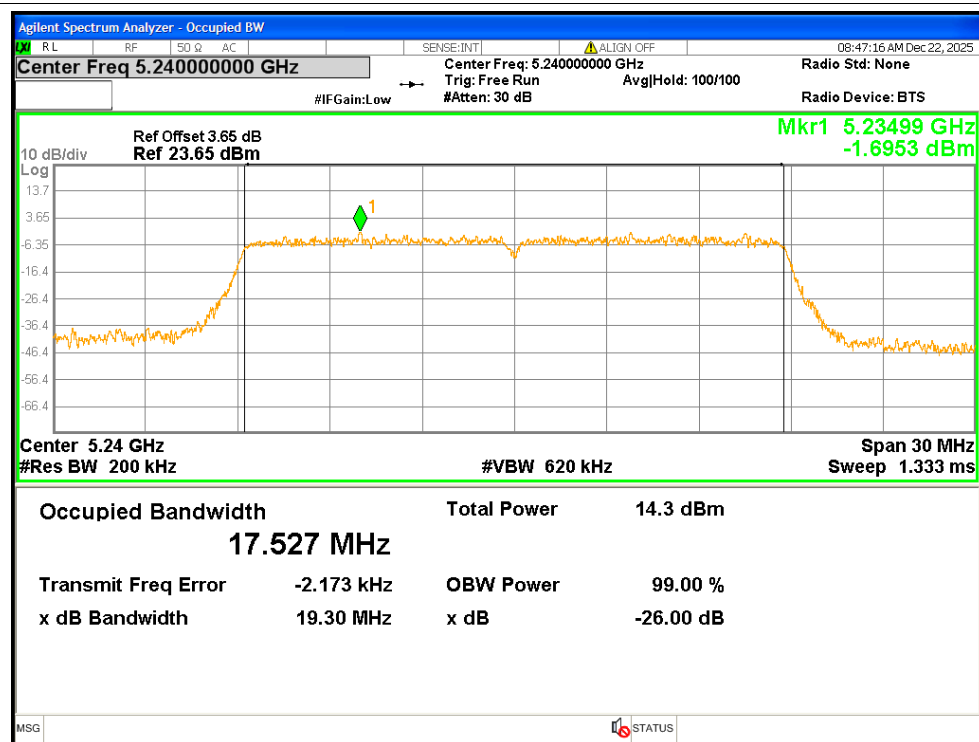
OBW NVNT n20 5200MHz Ant2



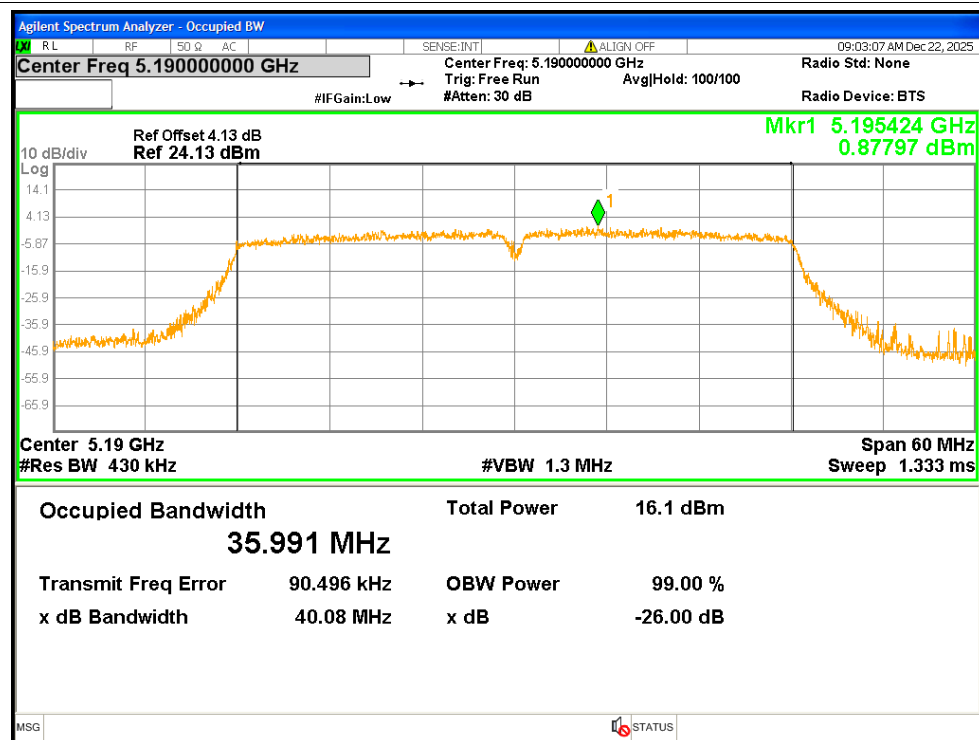
OBW NVNT n20 5240MHz Ant1



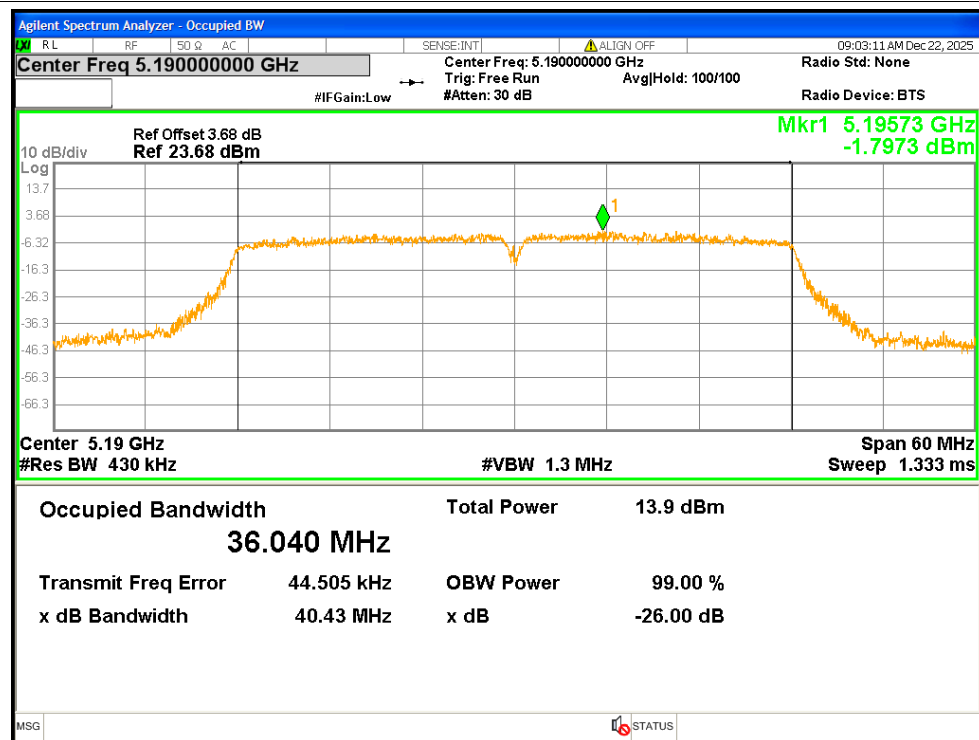
OBW NVNT n20 5240MHz Ant2



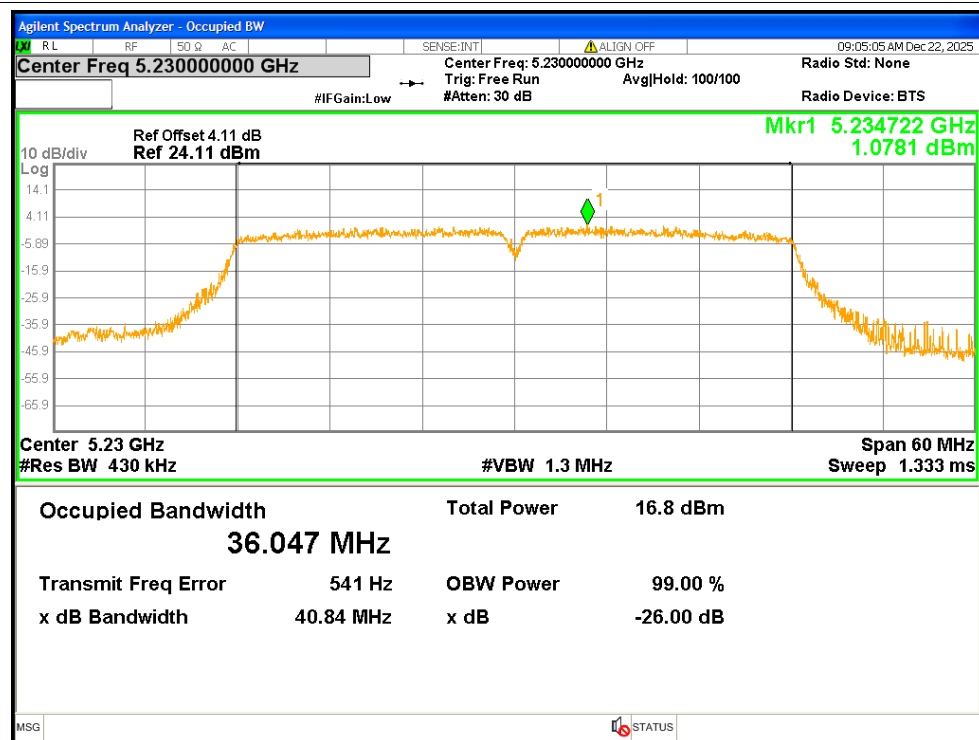
OBW NVNT n40 5190MHz Ant1



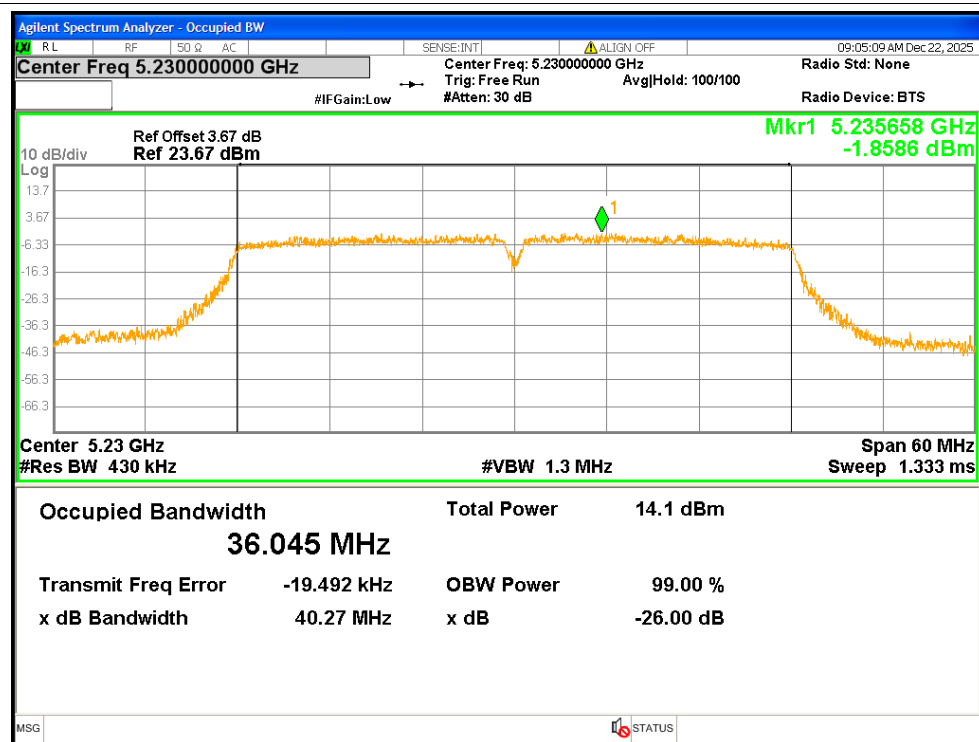
OBW NVNT n40 5190MHz Ant2



OBW NVNT n40 5230MHz Ant1



OBW NVNT n40 5230MHz Ant2

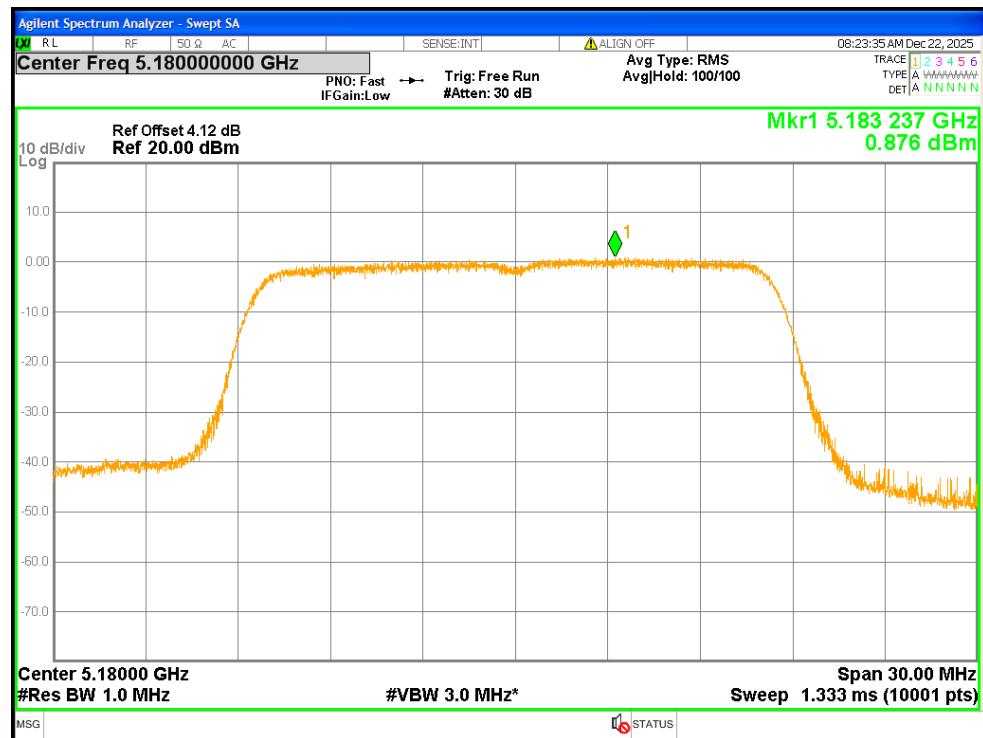


Maximum Power Spectral Density Level

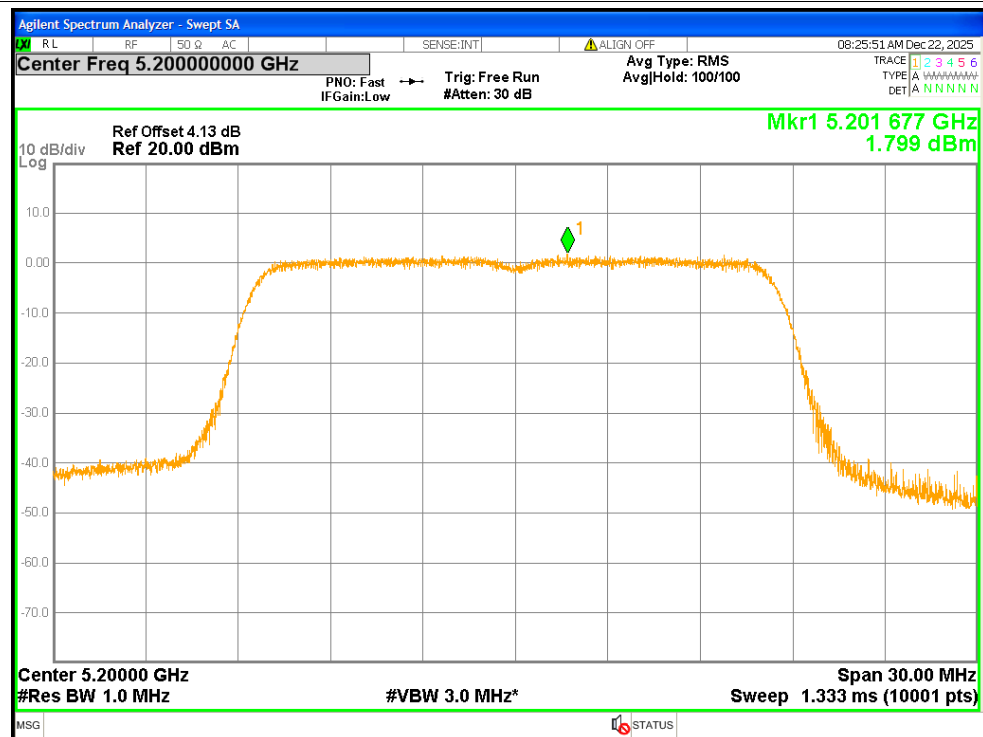
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.876	1.36	2.236	<=11	Pass
NVNT	a	5200	Ant1	1.799	1.36	3.159	<=11	Pass
NVNT	a	5240	Ant1	1.643	1.36	3.003	<=11	Pass
NVNT	a	5180	Ant2	0.779	1.36	2.139	<=11	Pass
NVNT	a	5200	Ant2	1.328	1.36	2.688	<=11	Pass
NVNT	a	5240	Ant2	0.373	1.36	1.733	<=11	Pass
NVNT	n20	5180	Ant1	-1.421	1.44	0.019	<=11	Pass
NVNT	n20	5180	Ant2	-3.218	1.44	-1.778	<=11	Pass
NVNT	n20	5180	MIMO	0.783	1.44	2.223	<=10.96	Pass
NVNT	n20	5200	Ant1	-0.14	1.44	1.3	<=11	Pass
NVNT	n20	5200	Ant2	-2.843	1.44	-1.403	<=11	Pass
NVNT	n20	5200	MIMO	1.726	1.44	3.166	<=10.96	Pass
NVNT	n20	5240	Ant1	-0.151	1.44	1.289	<=11	Pass
NVNT	n20	5240	Ant2	-3.068	1.44	-1.628	<=11	Pass
NVNT	n20	5240	MIMO	1.641	1.44	3.081	<=10.96	Pass
NVNT	n40	5190	Ant1	-4.418	2.53	-1.888	<=11	Pass
NVNT	n40	5190	Ant2	-6.442	2.53	-3.912	<=11	Pass
NVNT	n40	5190	MIMO	-2.303	2.53	0.227	<=10.96	Pass
NVNT	n40	5230	Ant1	-4.075	2.53	-1.545	<=11	Pass
NVNT	n40	5230	Ant2	-6.359	2.53	-3.829	<=11	Pass
NVNT	n40	5230	MIMO	-2.058	2.53	0.472	<=10.96	Pass

Test Graphs

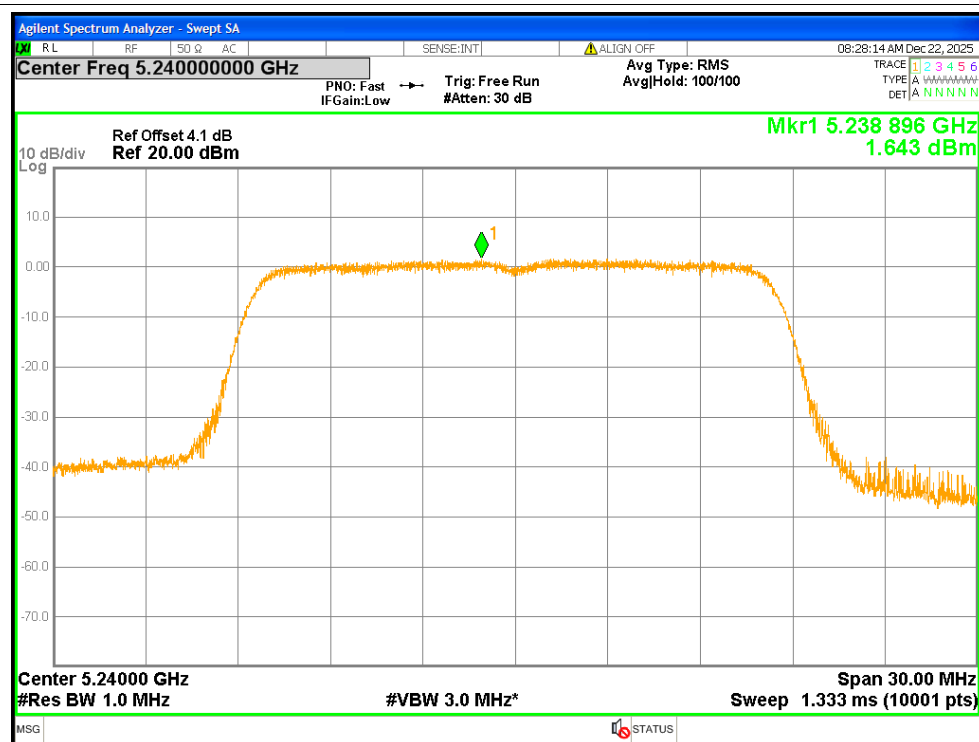
PSD NVNT a 5180MHz Ant1



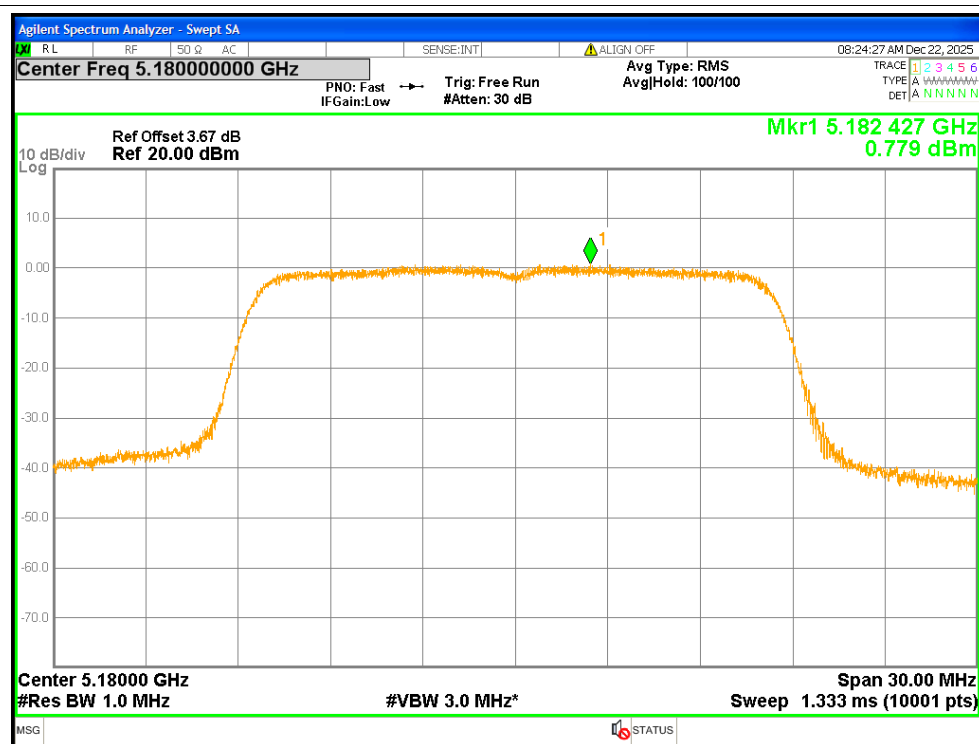
PSD NVNT a 5200MHz Ant1



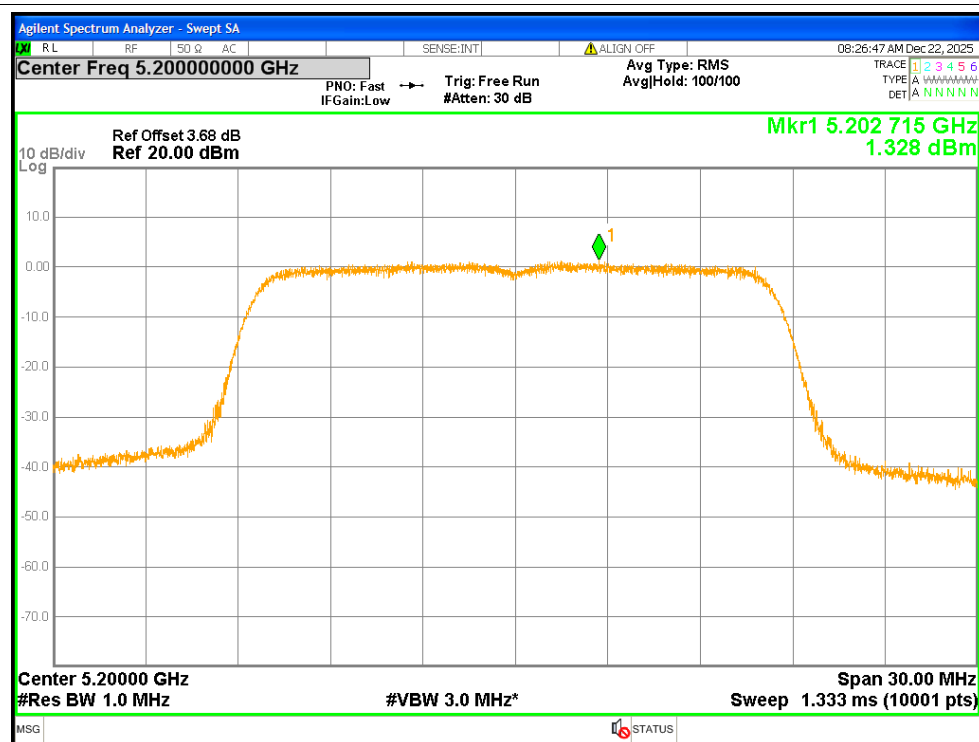
PSD NVNT a 5240MHz Ant1



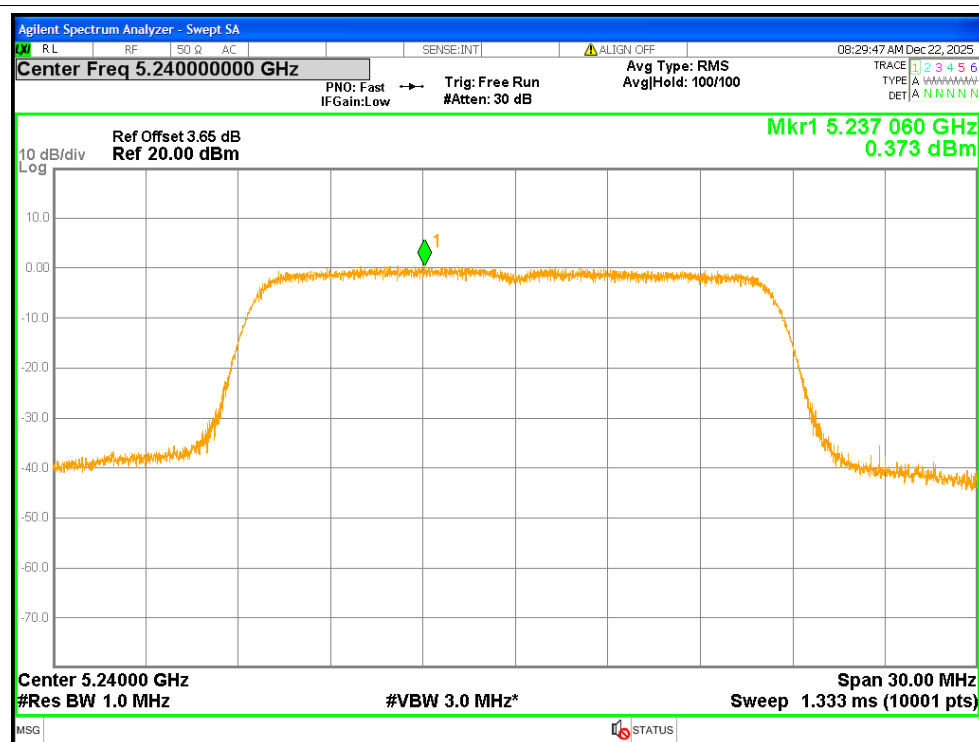
PSD NVNT a 5180MHz Ant2



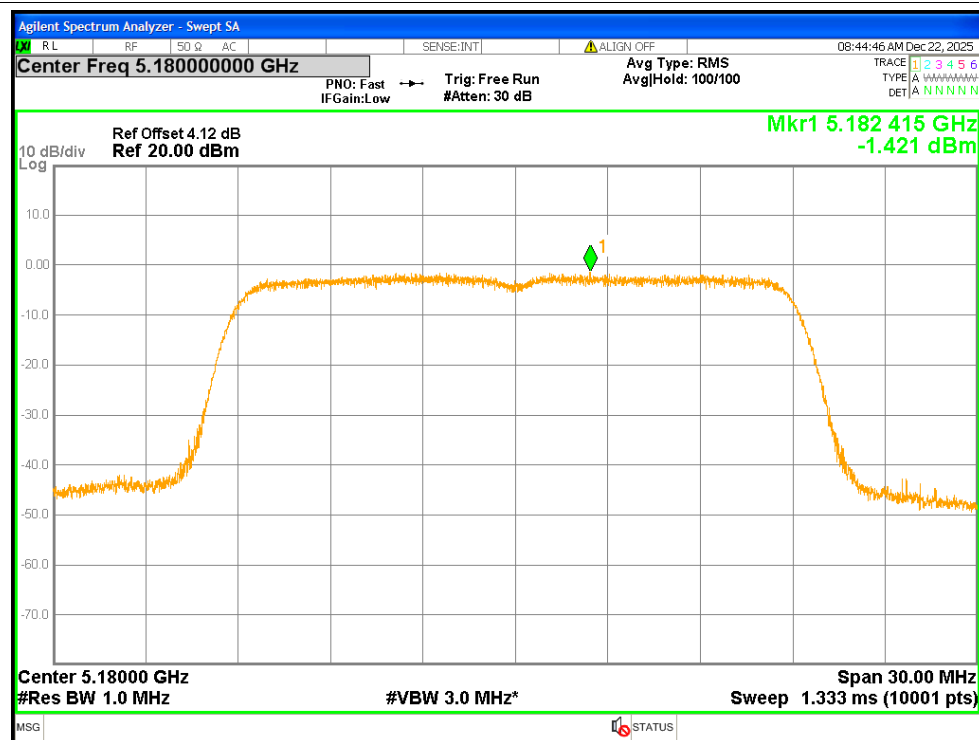
PSD NVNT a 5200MHz Ant2



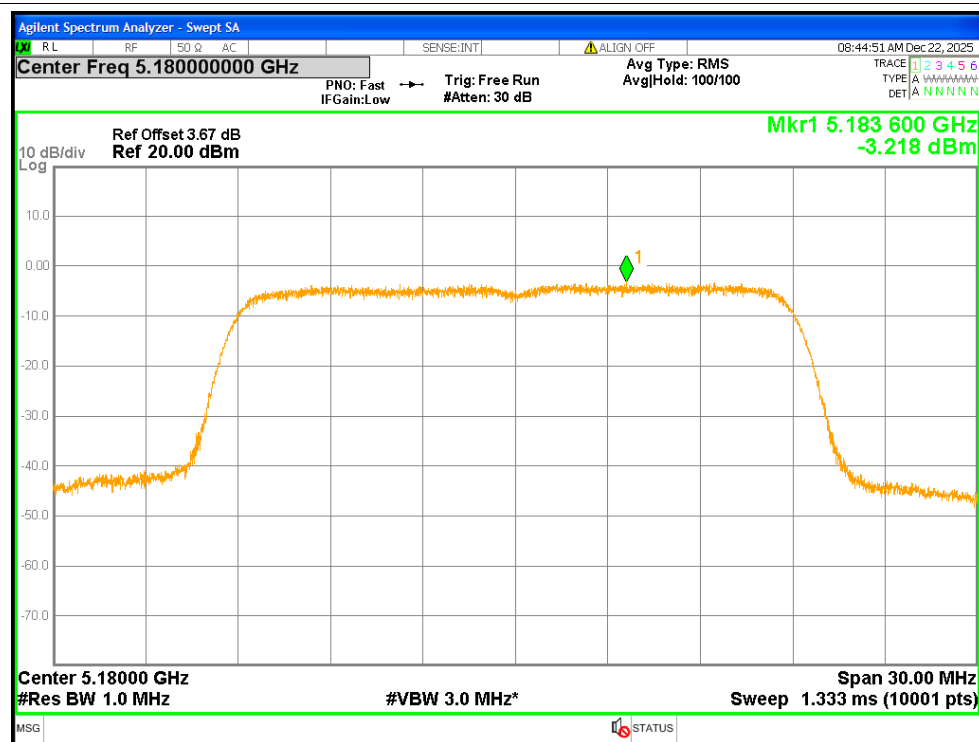
PSD NVNT a 5240MHz Ant2



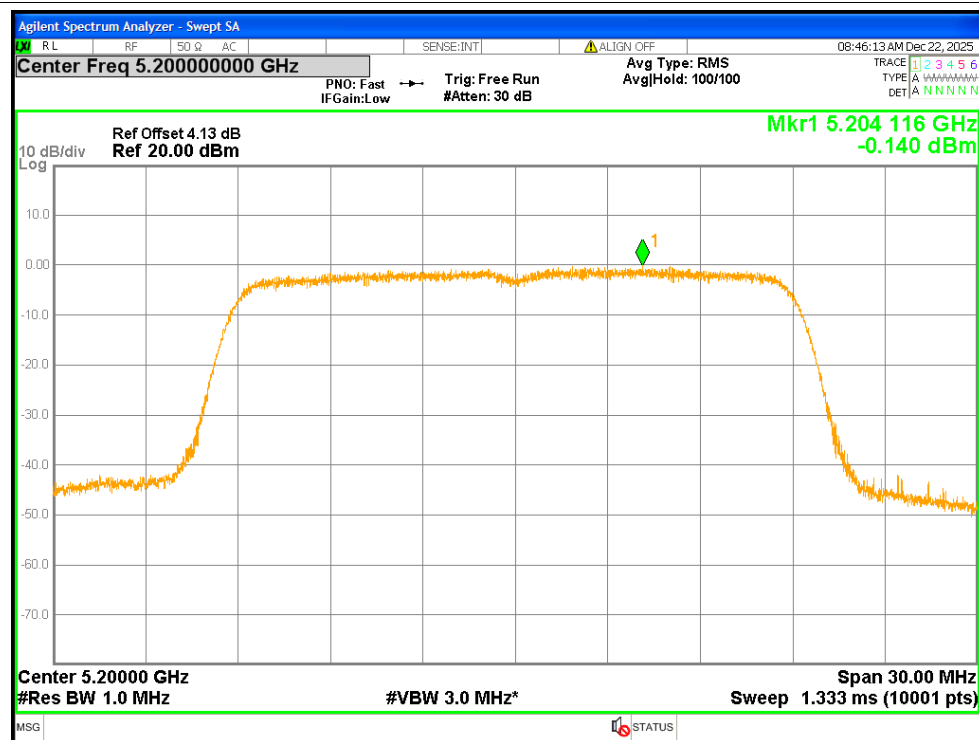
PSD NVNT n20 5180MHz Ant1



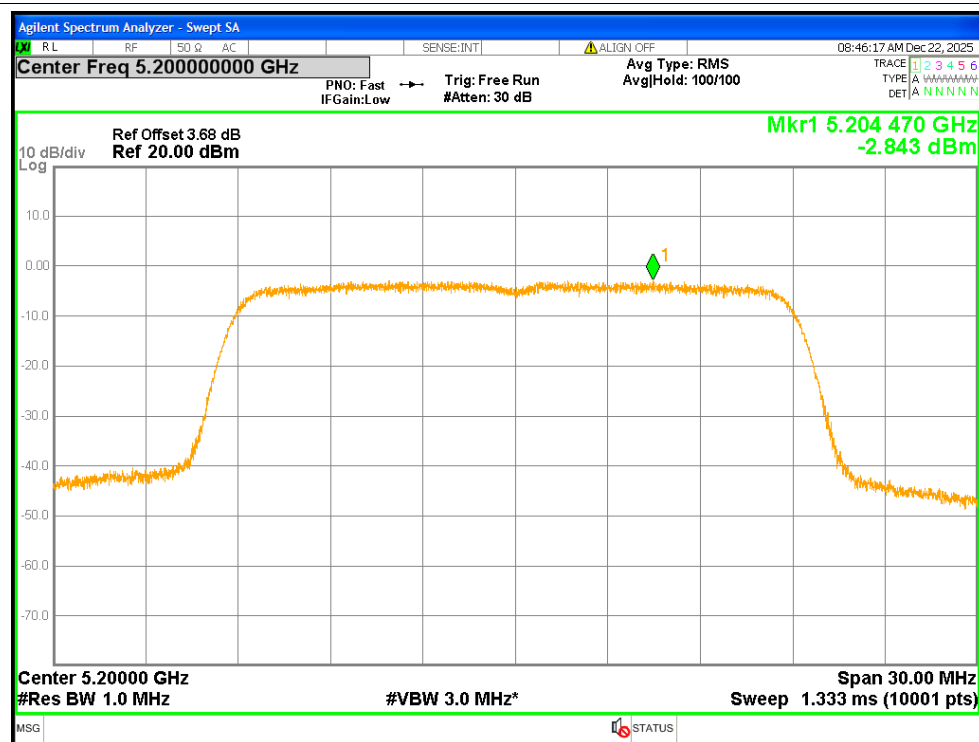
PSD NVNT n20 5180MHz Ant2



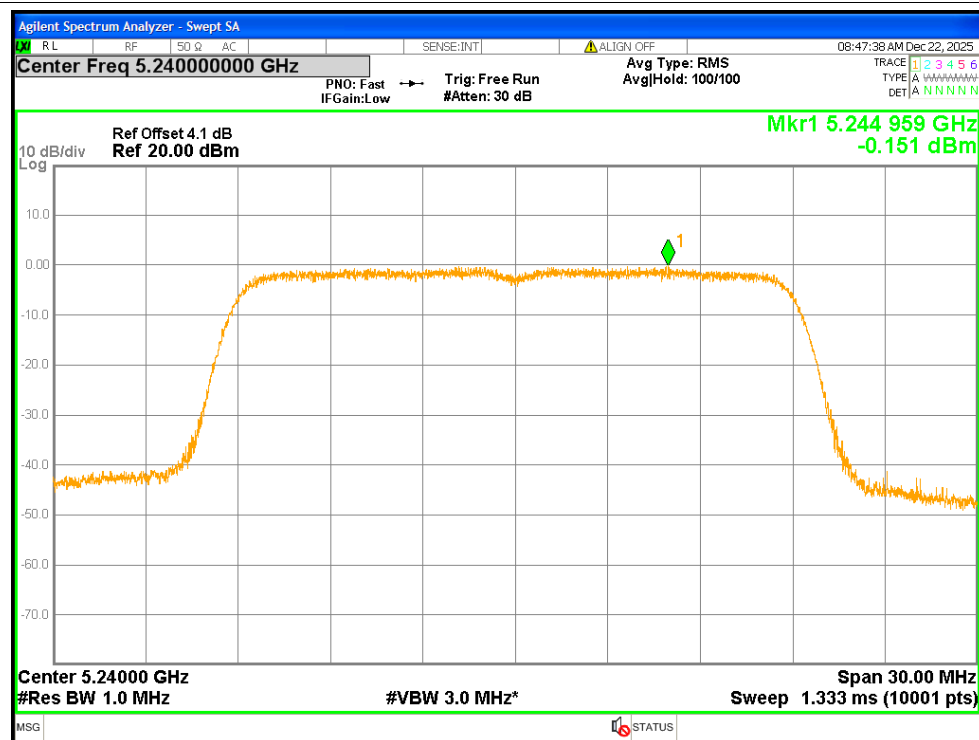
PSD NVNT n20 5200MHz Ant1



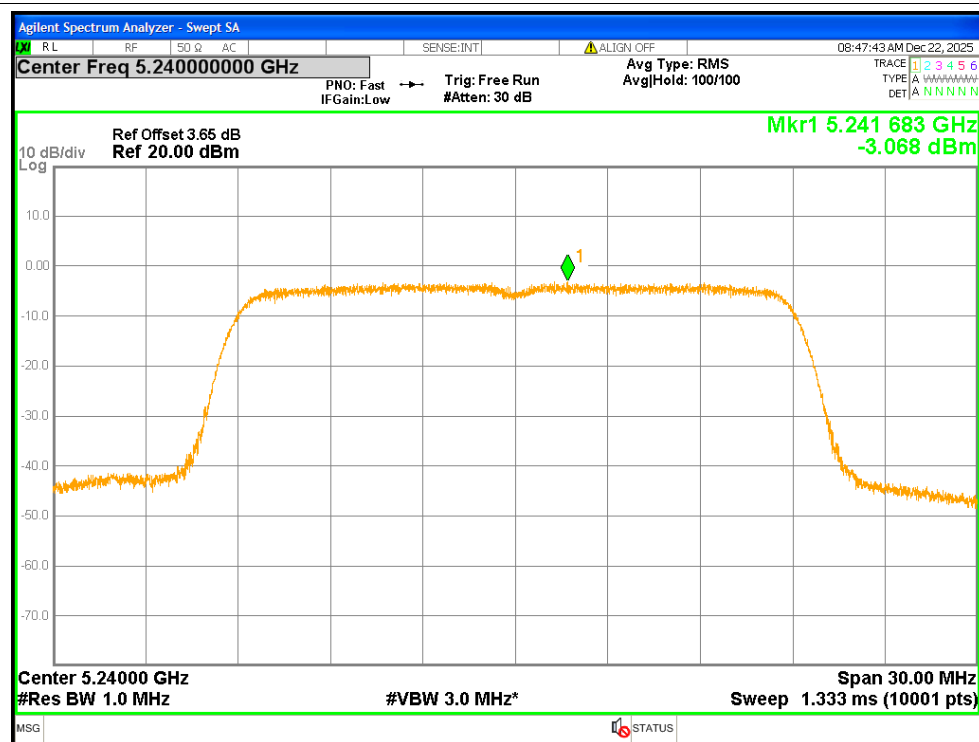
PSD NVNT n20 5200MHz Ant2



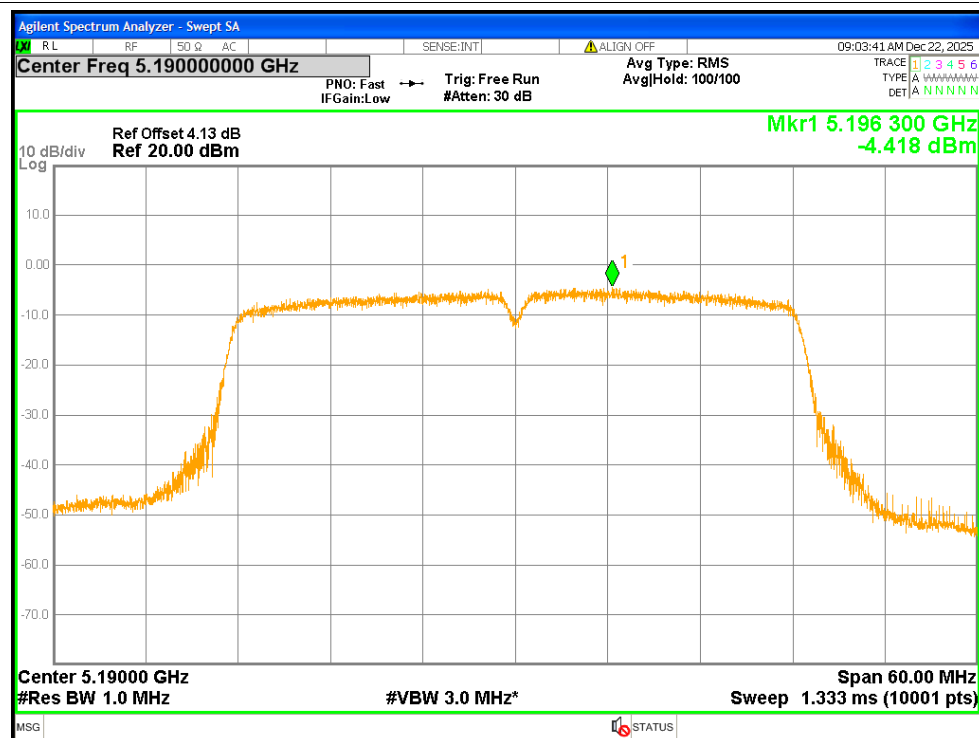
PSD NVNT n20 5240MHz Ant1



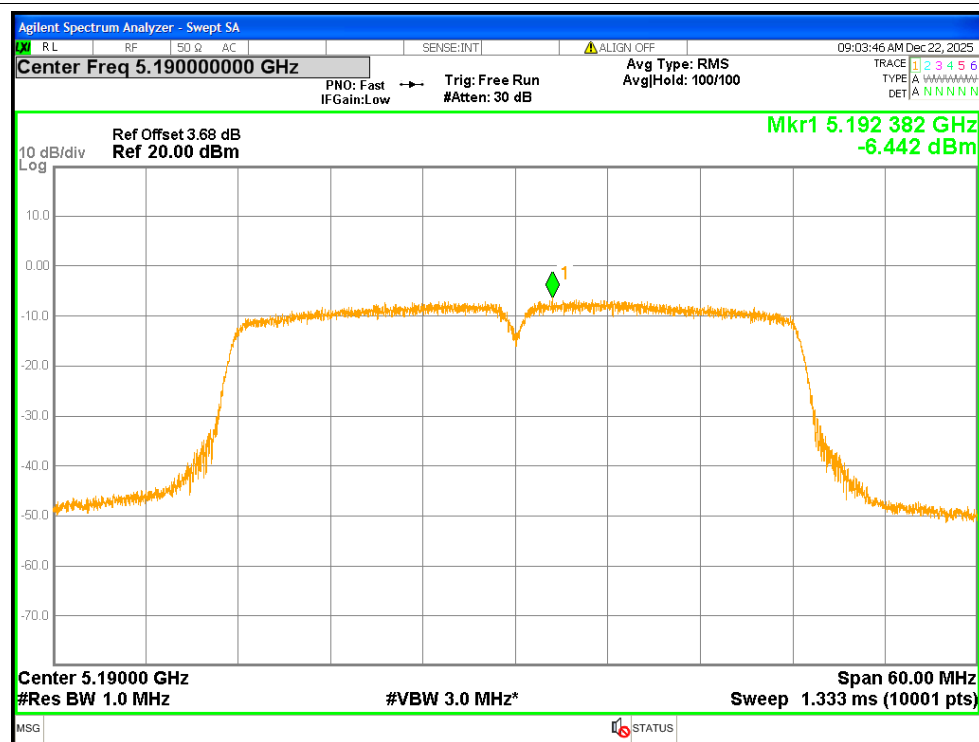
PSD NVNT n20 5240MHz Ant2



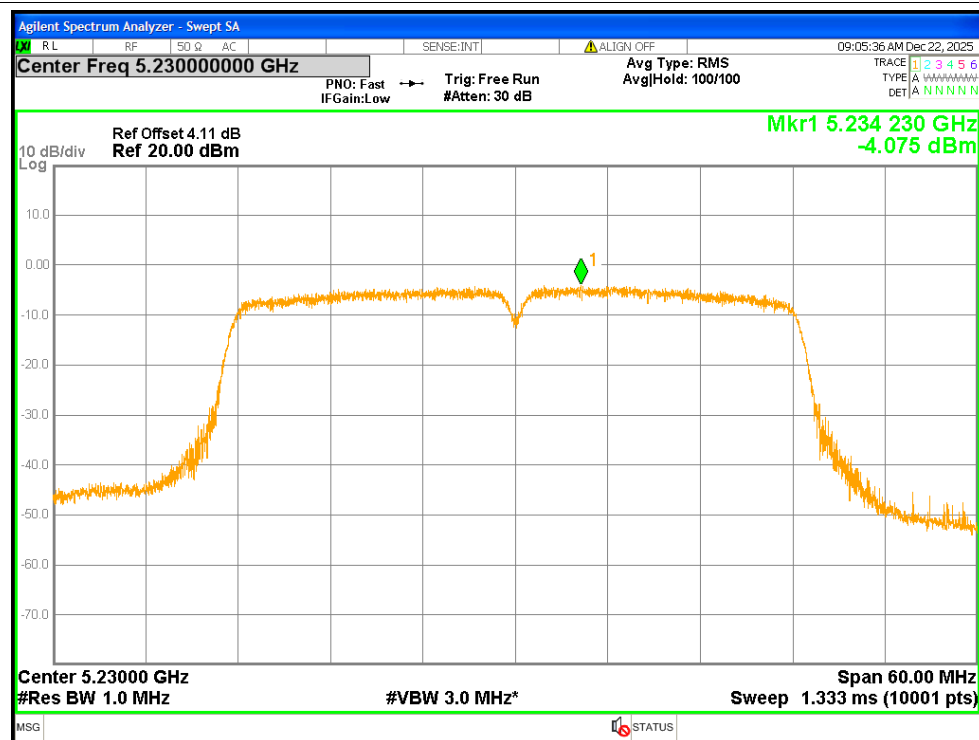
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2

