

Appendix A for 5GWIFI Test Data

Product Name: LAPTOP

Test Model: BL14CA1

Environmental Conditions

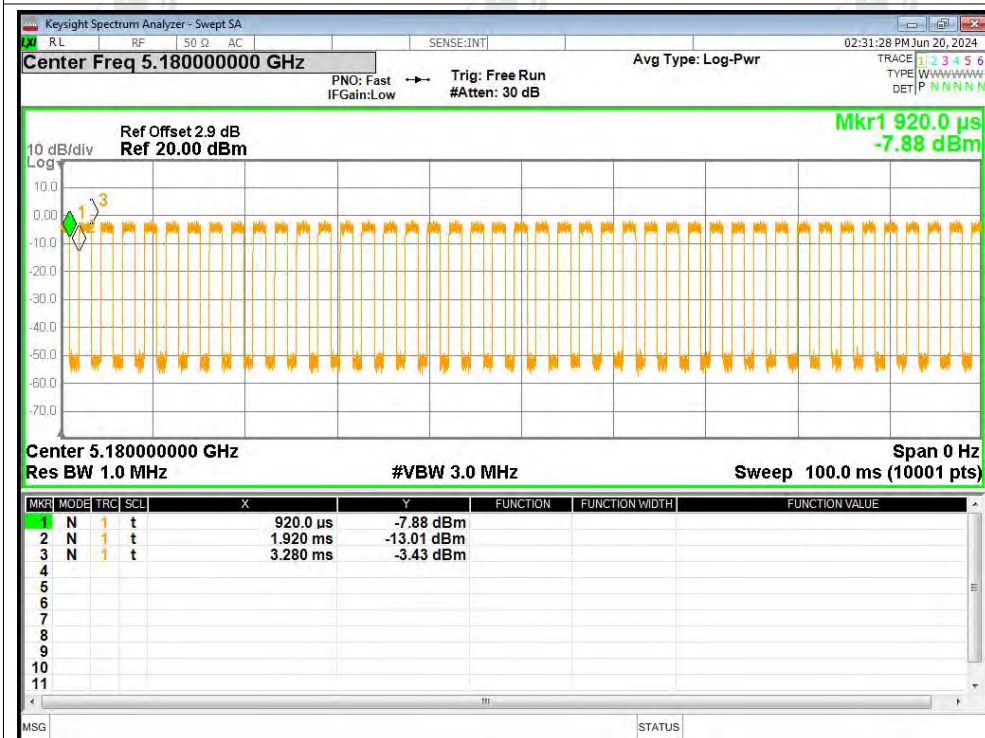
Temperature:	23.8℃
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

A1. Duty Cycle

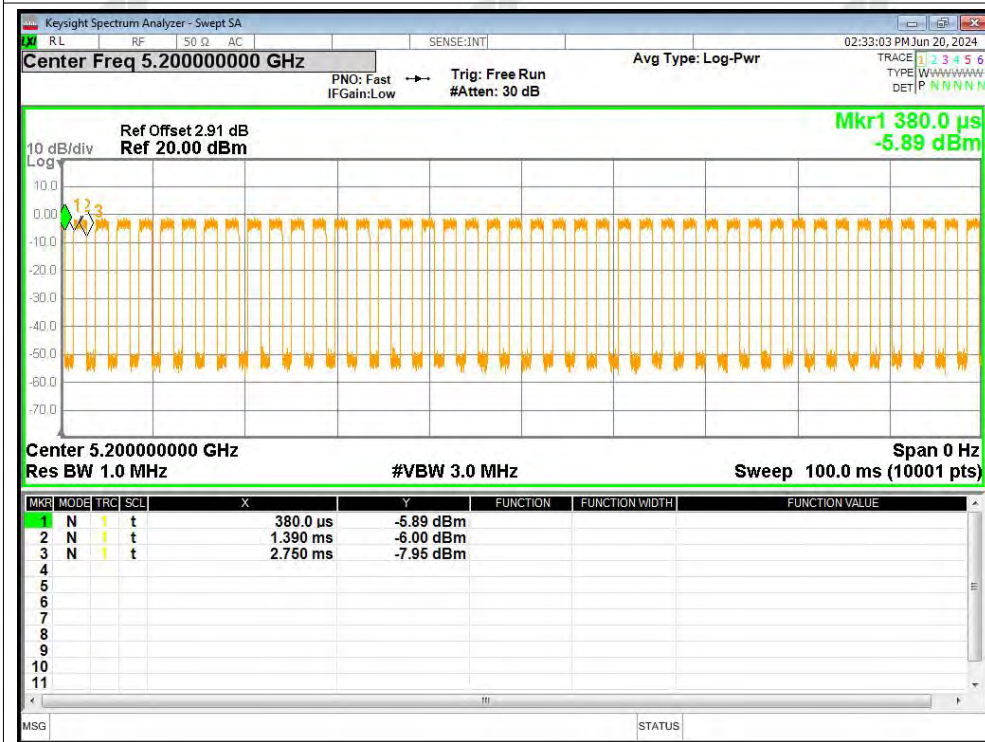
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	57.63	2.39	0.74
NVNT	a	5200	Ant1	57.38	2.41	0.74
NVNT	a	5240	Ant1	57.38	2.41	0.74
NVNT	a	5180	Ant2	57.63	2.39	0.74
NVNT	a	5200	Ant2	57.63	2.39	0.74
NVNT	a	5240	Ant2	57.63	2.39	0.74
NVNT	n20	5180	Ant1	55.95	2.52	0.79
NVNT	n20	5200	Ant1	55.95	2.52	0.79
NVNT	n20	5240	Ant1	55.95	2.52	0.79
NVNT	n20	5180	Ant2	55.95	2.52	0.79
NVNT	n20	5200	Ant2	55.7	2.54	0.79
NVNT	n20	5240	Ant2	56.14	2.51	0.78
NVNT	n40	5190	Ant1	39.02	4.09	1.56
NVNT	n40	5230	Ant1	38.41	4.16	1.59
NVNT	n40	5190	Ant2	39.02	4.09	1.56
NVNT	n40	5230	Ant2	39.02	4.09	1.56
NVNT	ac20	5180	Ant1	55.7	2.54	0.79
NVNT	ac20	5200	Ant1	56.14	2.51	0.78
NVNT	ac20	5240	Ant1	56.14	2.51	0.78
NVNT	ac20	5180	Ant2	56.14	2.51	0.78
NVNT	ac20	5200	Ant2	56.14	2.51	0.78
NVNT	ac20	5240	Ant2	56.14	2.51	0.78
NVNT	ac40	5190	Ant1	39.02	4.09	1.56
NVNT	ac40	5230	Ant1	39.02	4.09	1.56
NVNT	ac40	5190	Ant2	38.41	4.16	1.59
NVNT	ac40	5230	Ant2	39.02	4.09	1.56
NVNT	ac80	5210	Ant1	23.48	6.29	3.23
NVNT	ac80	5210	Ant2	24.24	6.15	3.13

Test Graphs

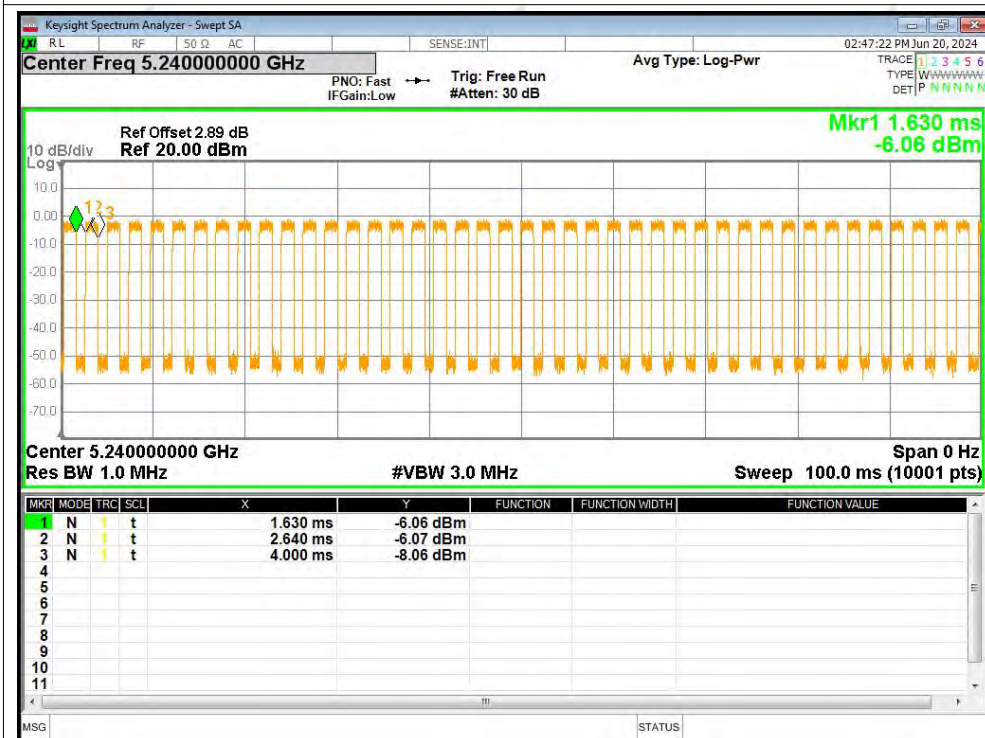
Duty Cycle NVNT a 5180MHz Ant1



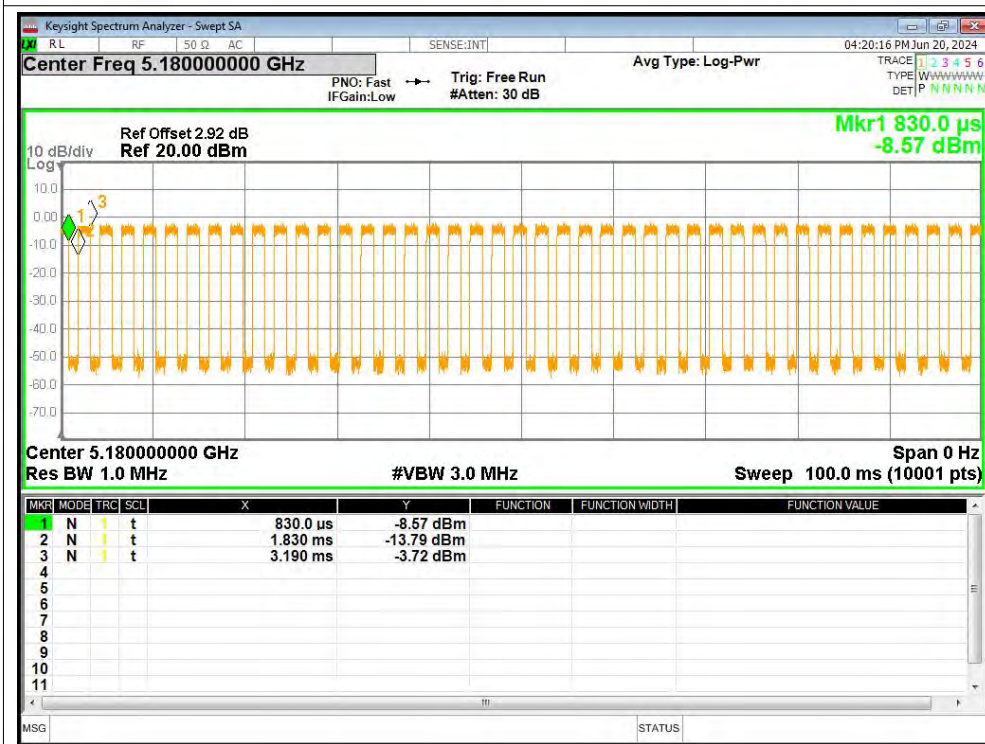
Duty Cycle NVNT a 5200MHz Ant1



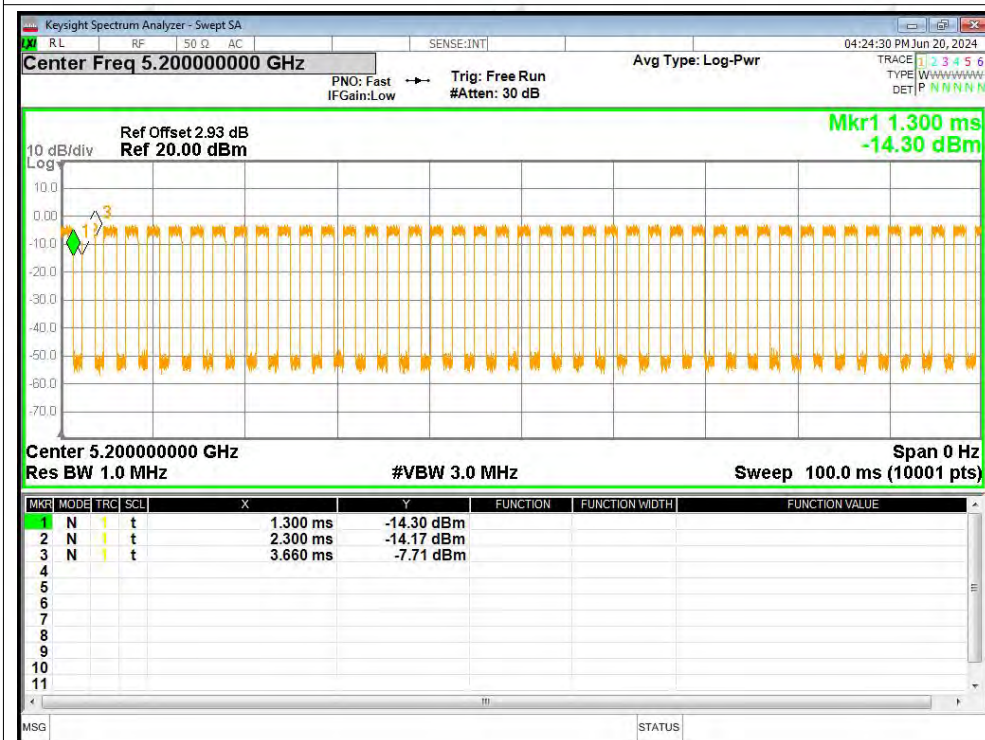
Duty Cycle NVNT a 5240MHz Ant1



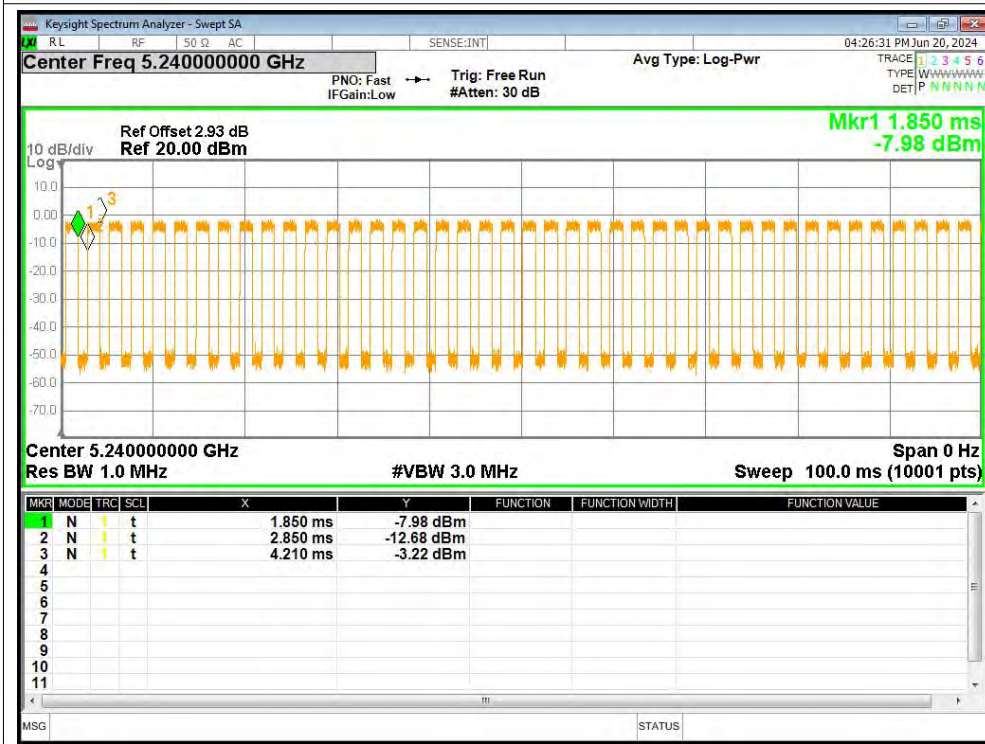
Duty Cycle NVNT a 5180MHz Ant2



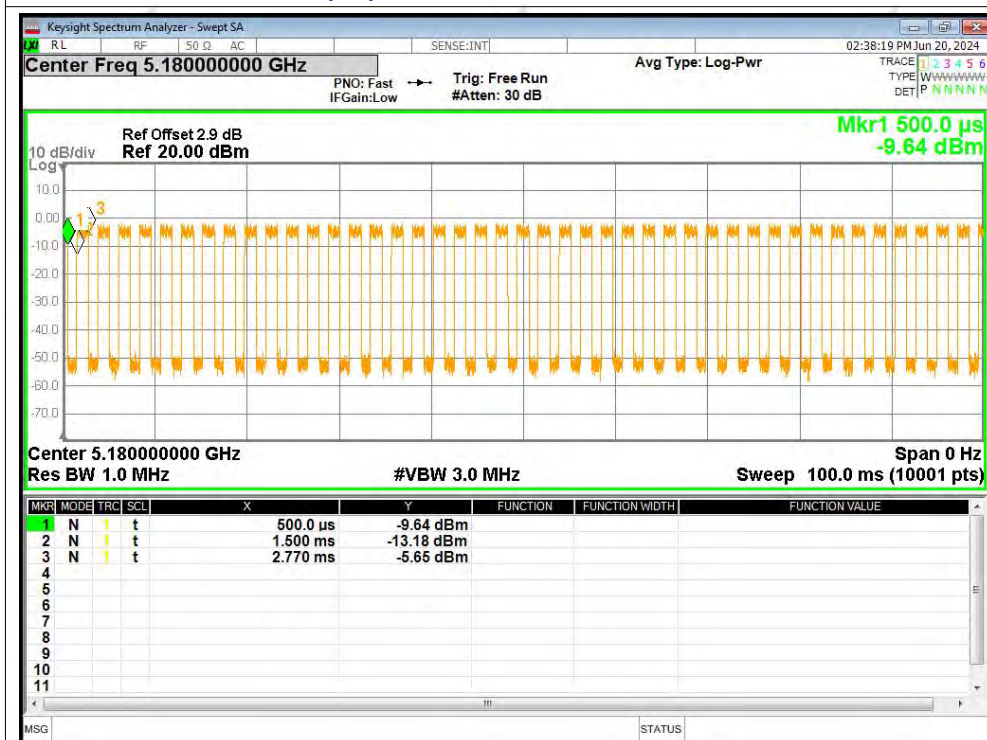
Duty Cycle NVNT a 5200MHz Ant2



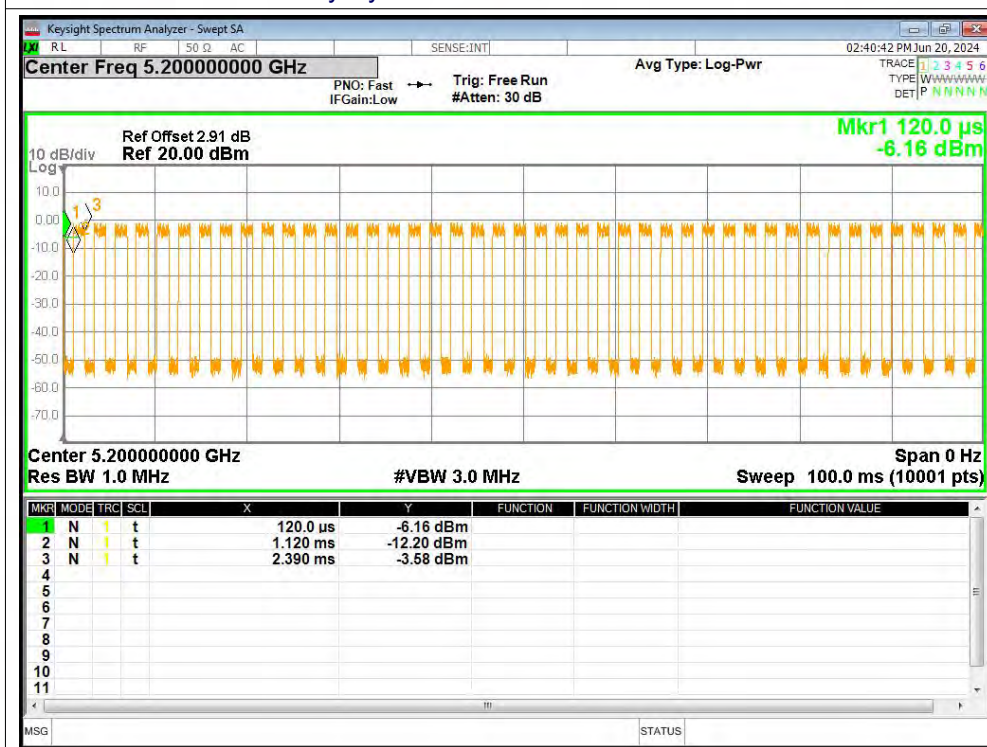
Duty Cycle NVNT a 5240MHz Ant2



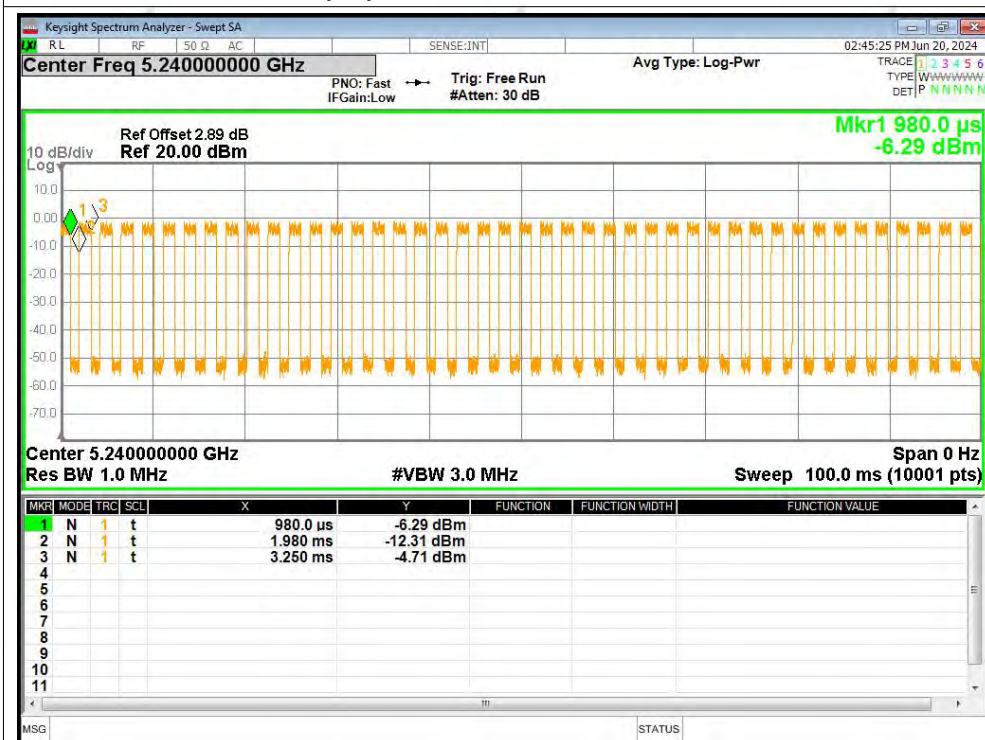
Duty Cycle NVNT n20 5180MHz Ant1



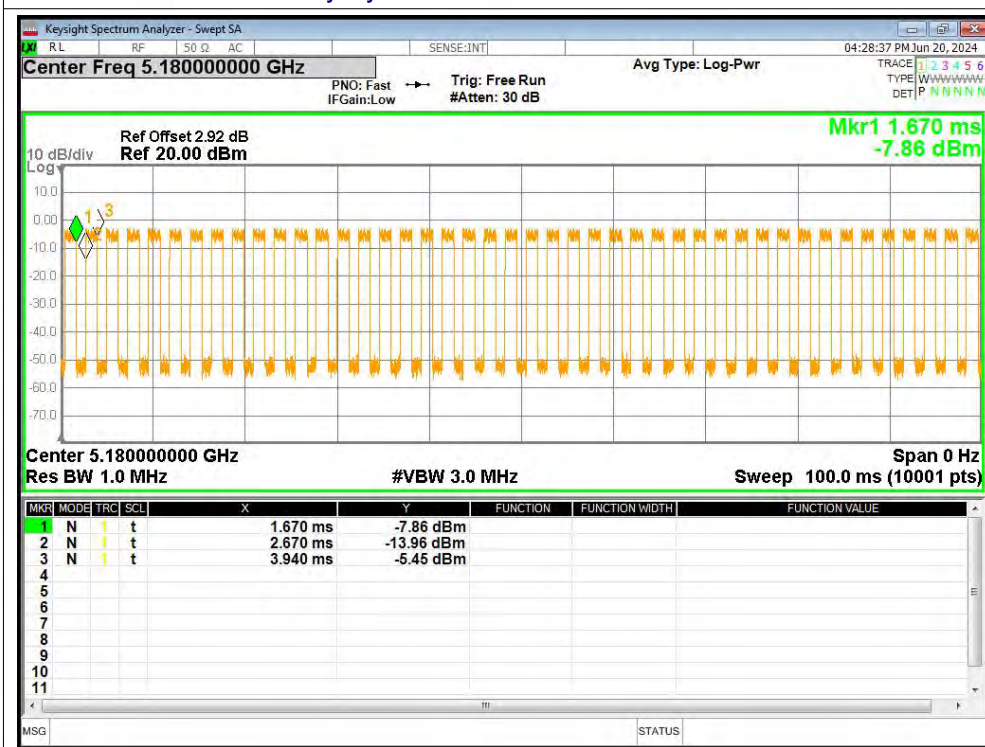
Duty Cycle NVNT n20 5200MHz Ant1



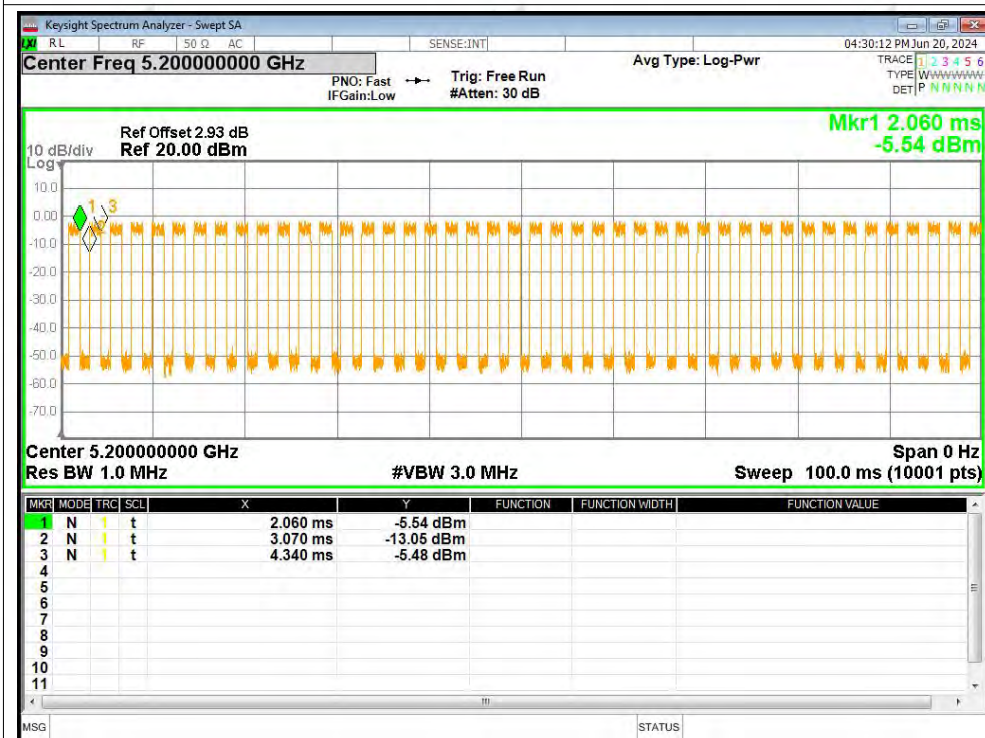
Duty Cycle NVNT n20 5240MHz Ant1



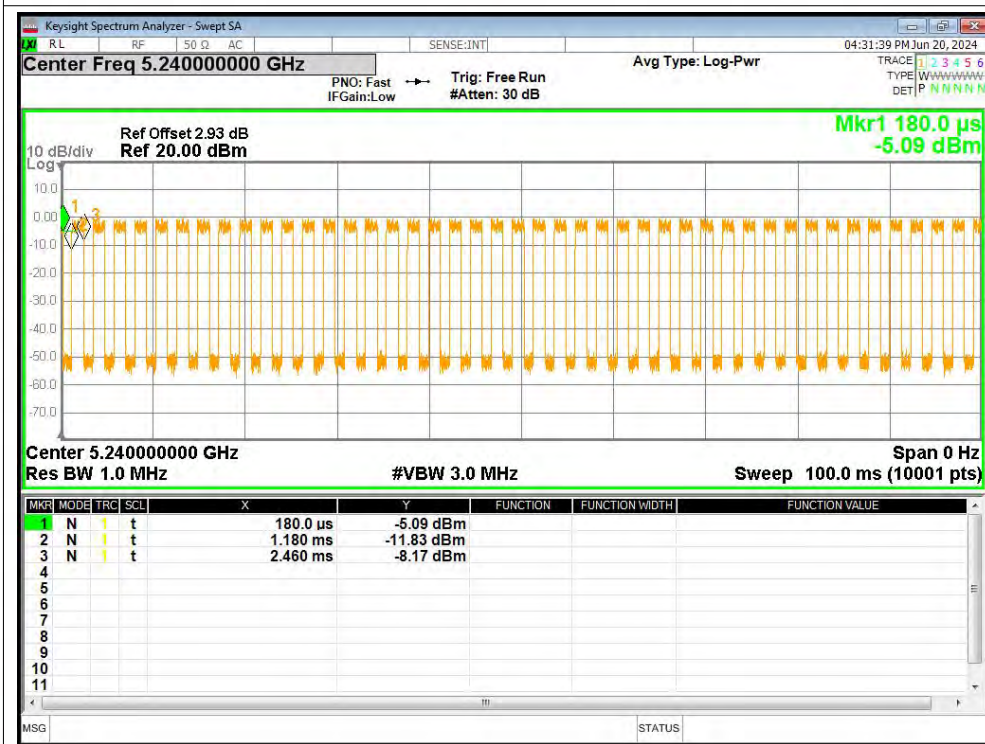
Duty Cycle NVNT n20 5180MHz Ant2



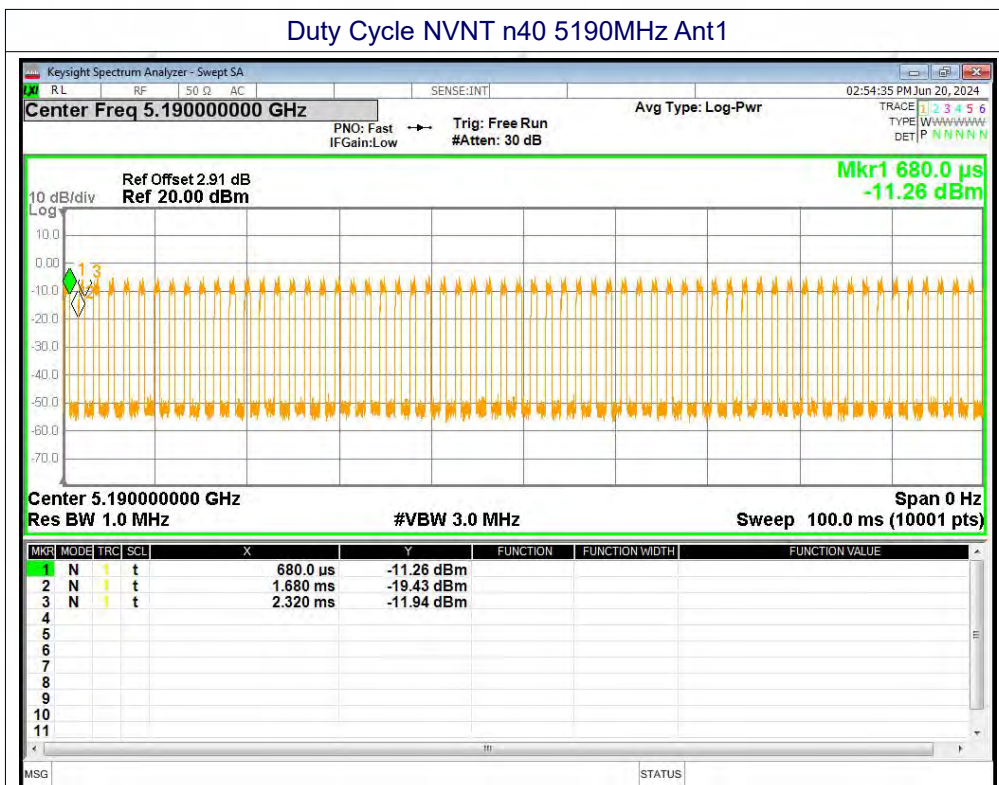
Duty Cycle NVNT n20 5200MHz Ant2



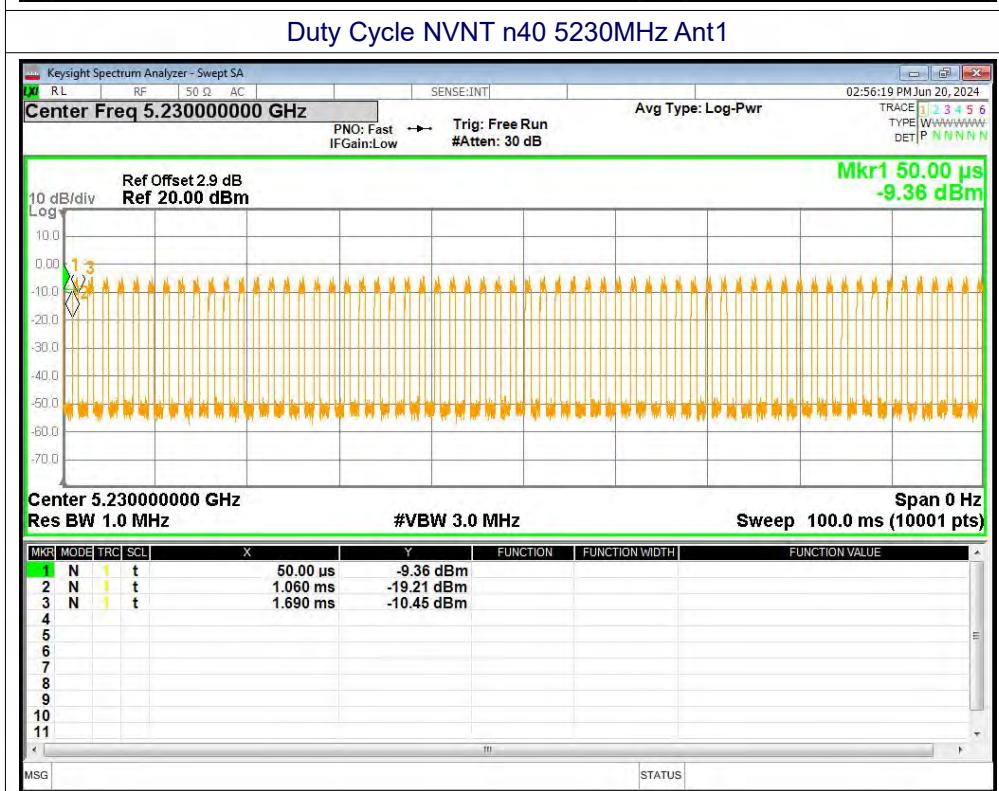
Duty Cycle NVNT n20 5240MHz Ant2



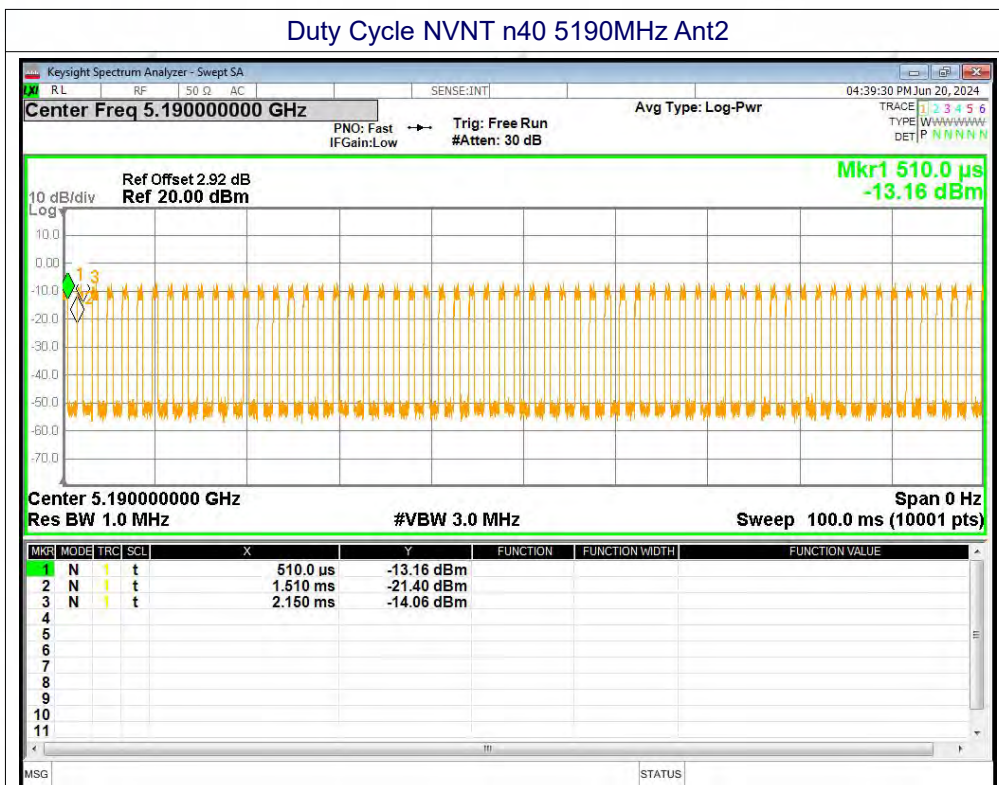
Duty Cycle NVNT n40 5190MHz Ant1



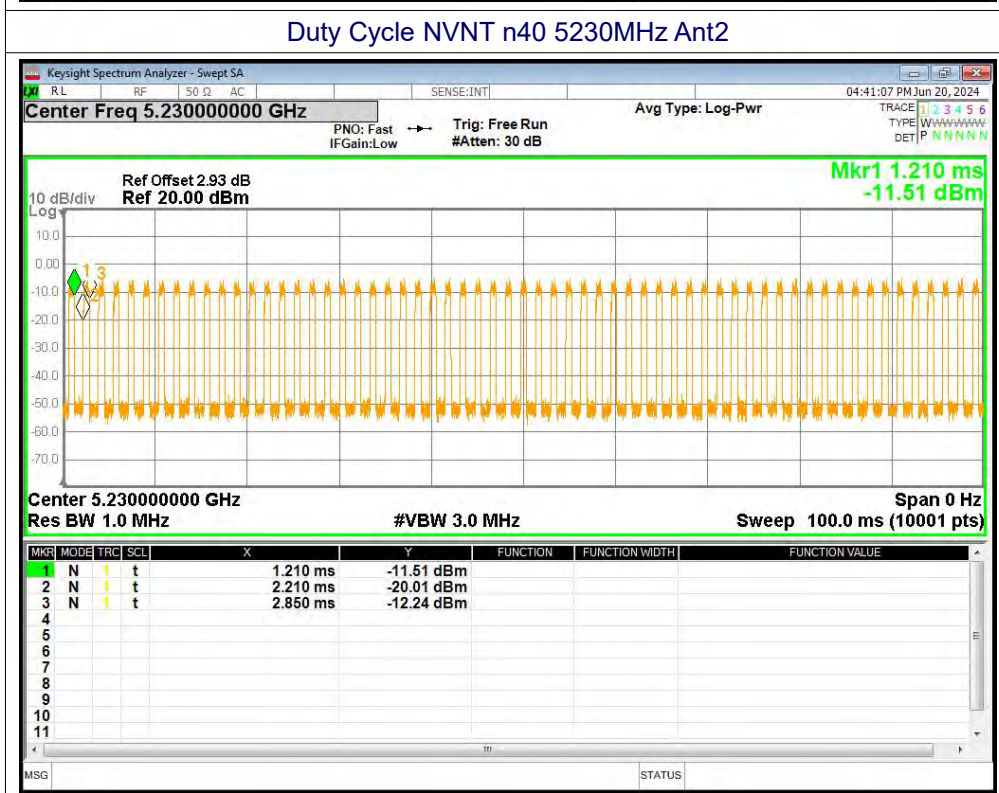
Duty Cycle NVNT n40 5230MHz Ant1



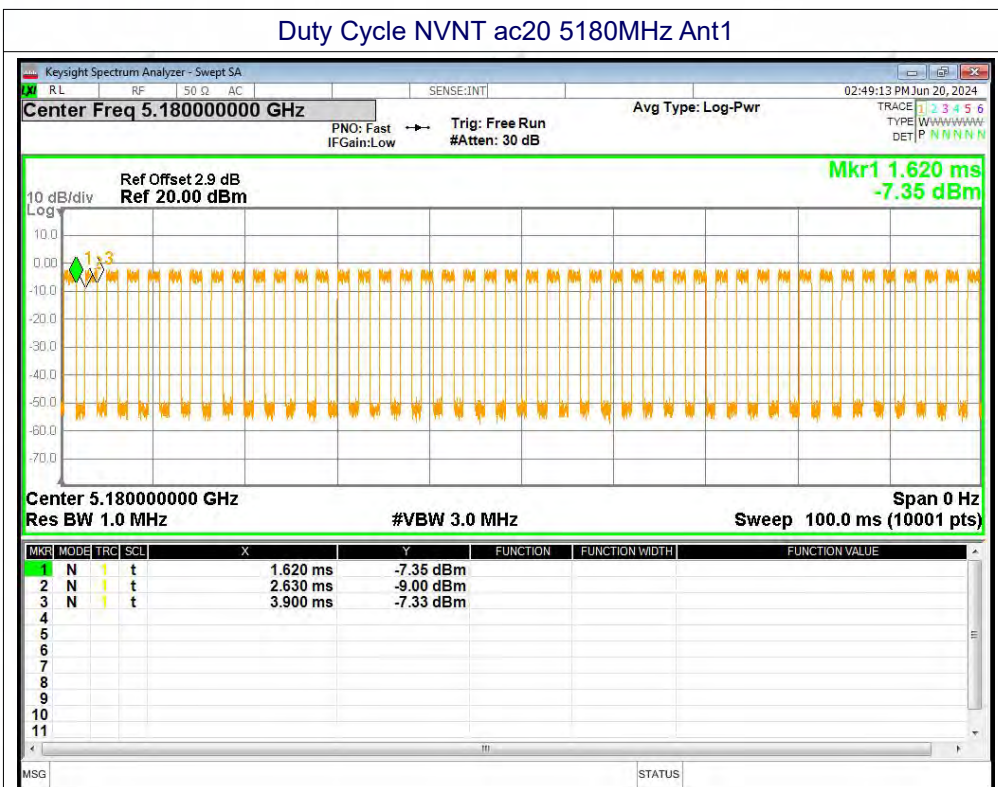
Duty Cycle NVNT n40 5190MHz Ant2



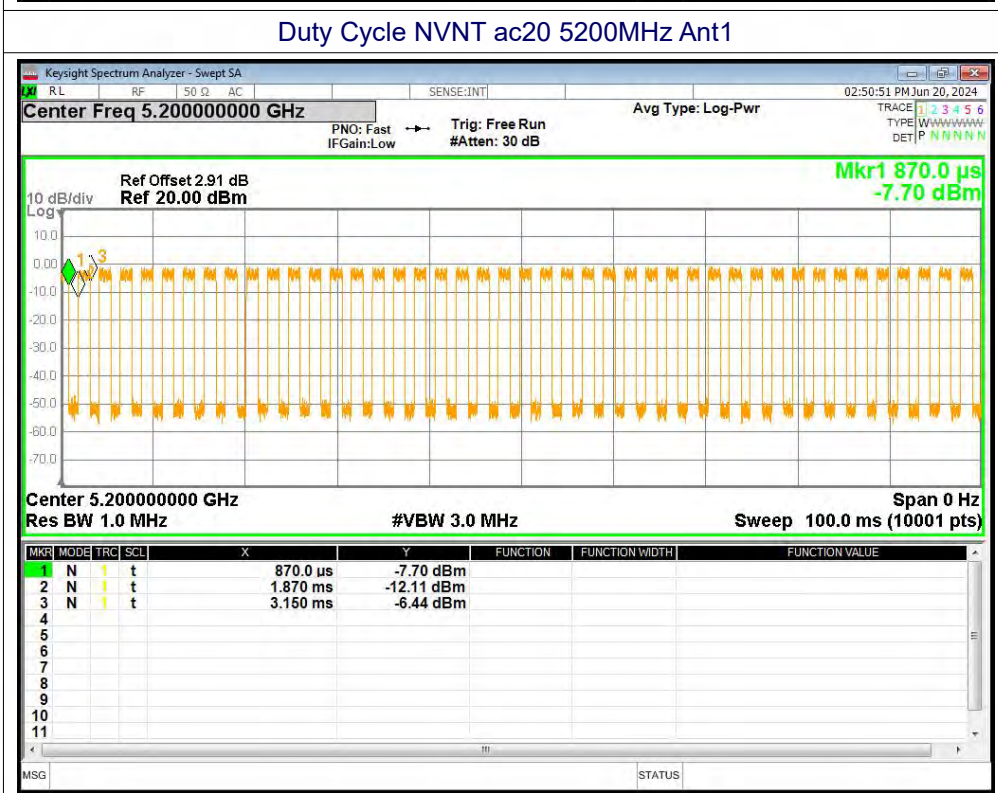
Duty Cycle NVNT n40 5230MHz Ant2



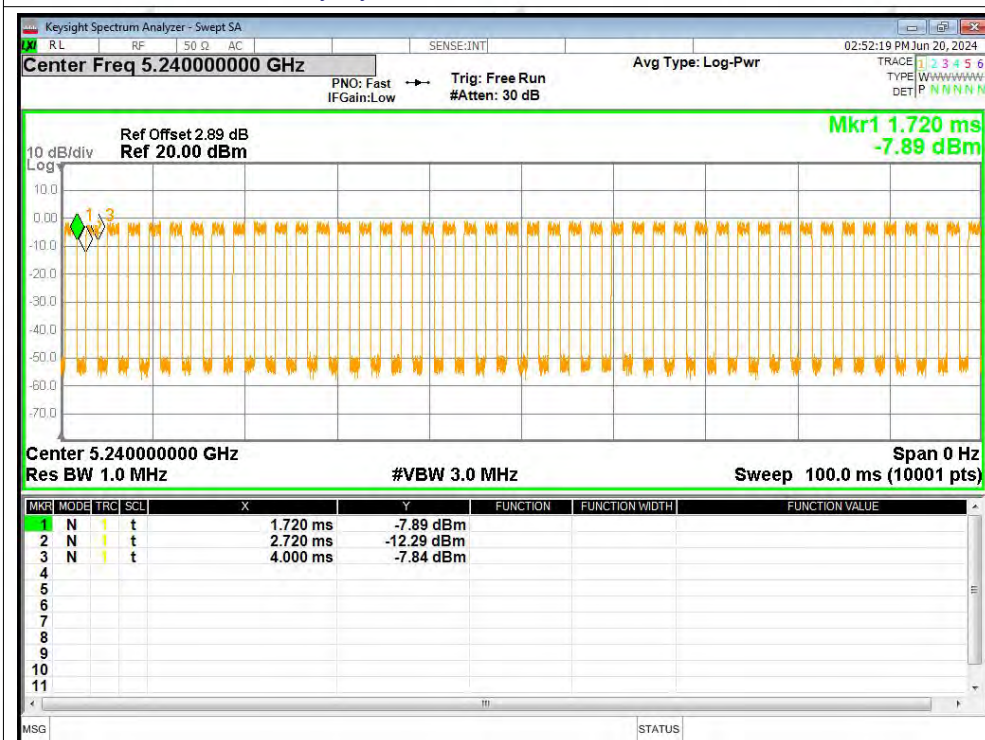
Duty Cycle NVNT ac20 5180MHz Ant1



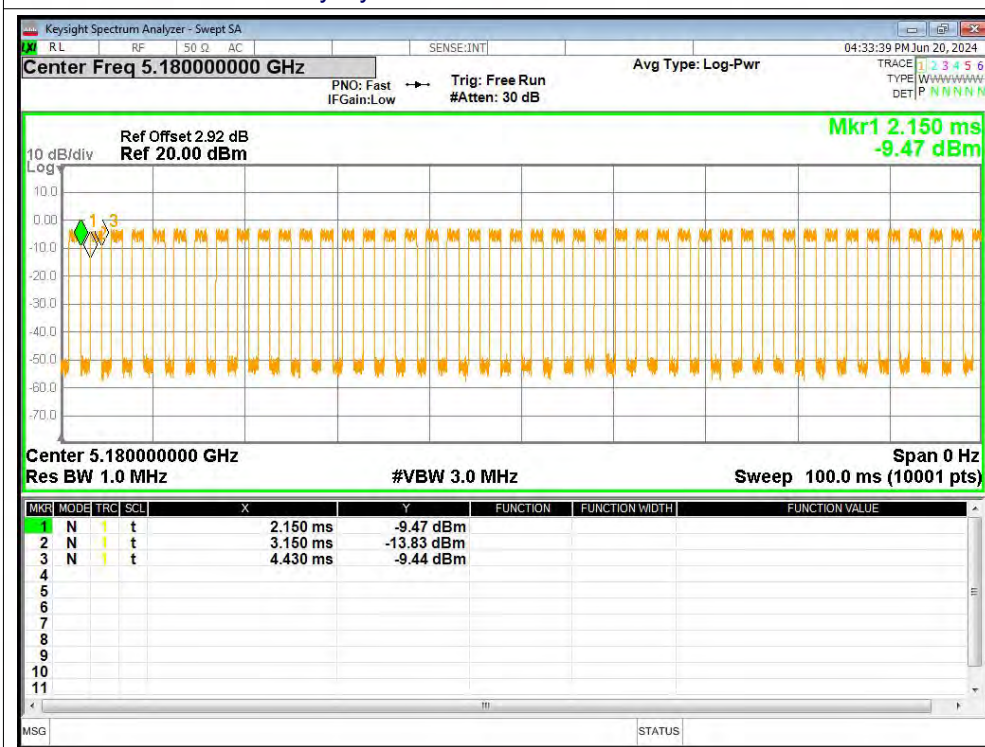
Duty Cycle NVNT ac20 5200MHz Ant1



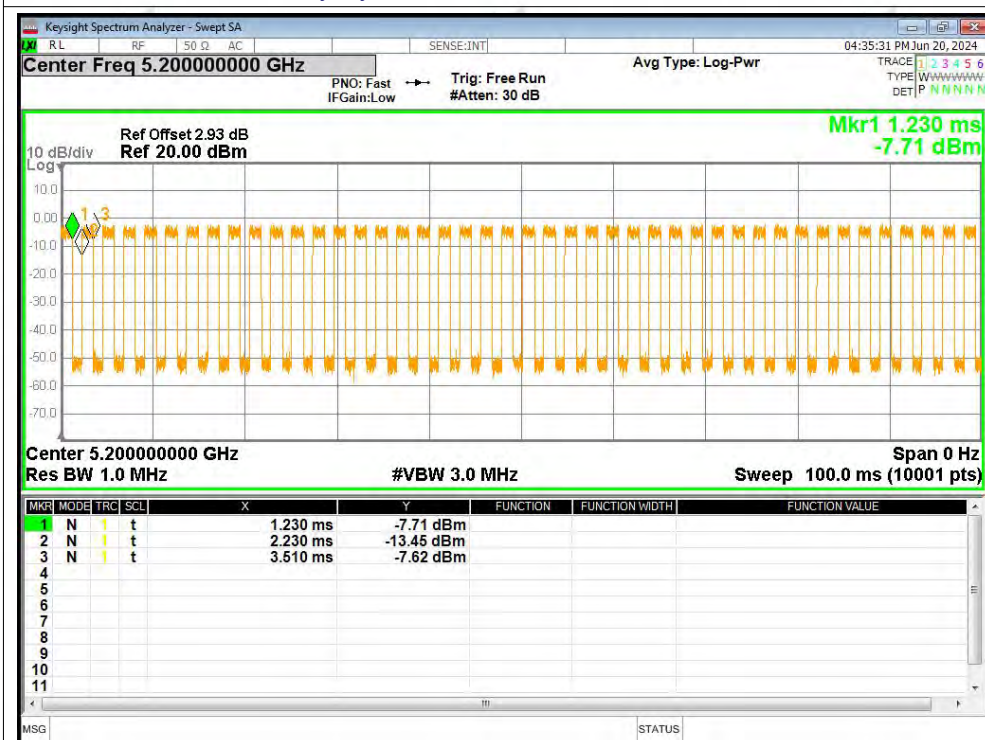
Duty Cycle NVNT ac20 5240MHz Ant1



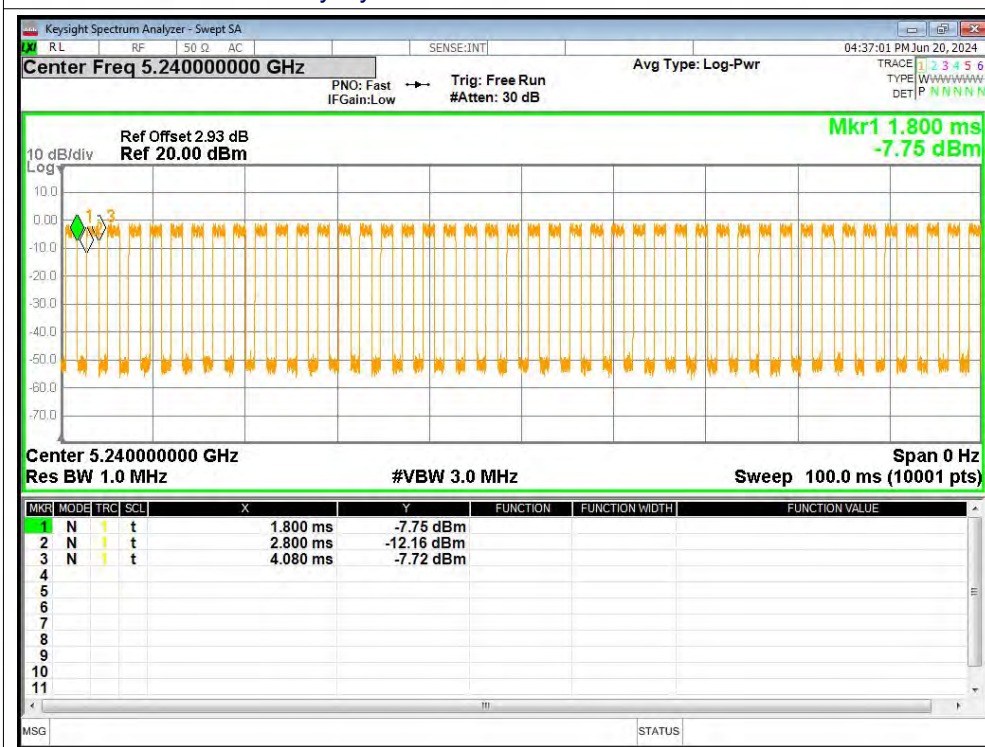
Duty Cycle NVNT ac20 5180MHz Ant2



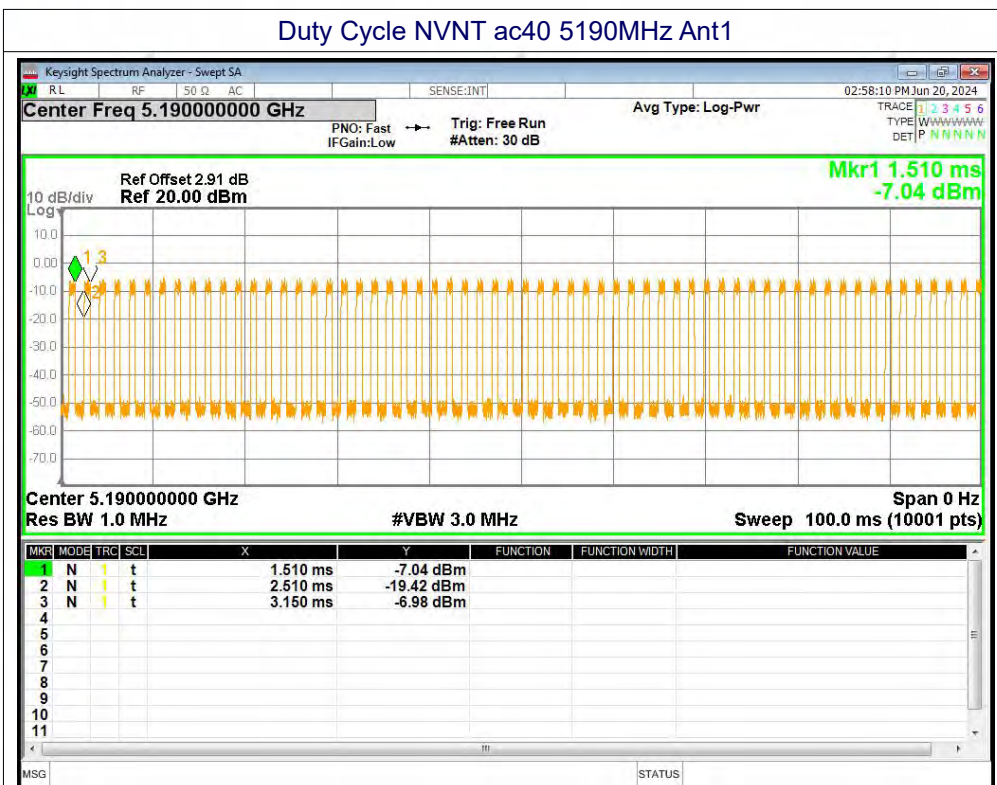
Duty Cycle NVNT ac20 5200MHz Ant2



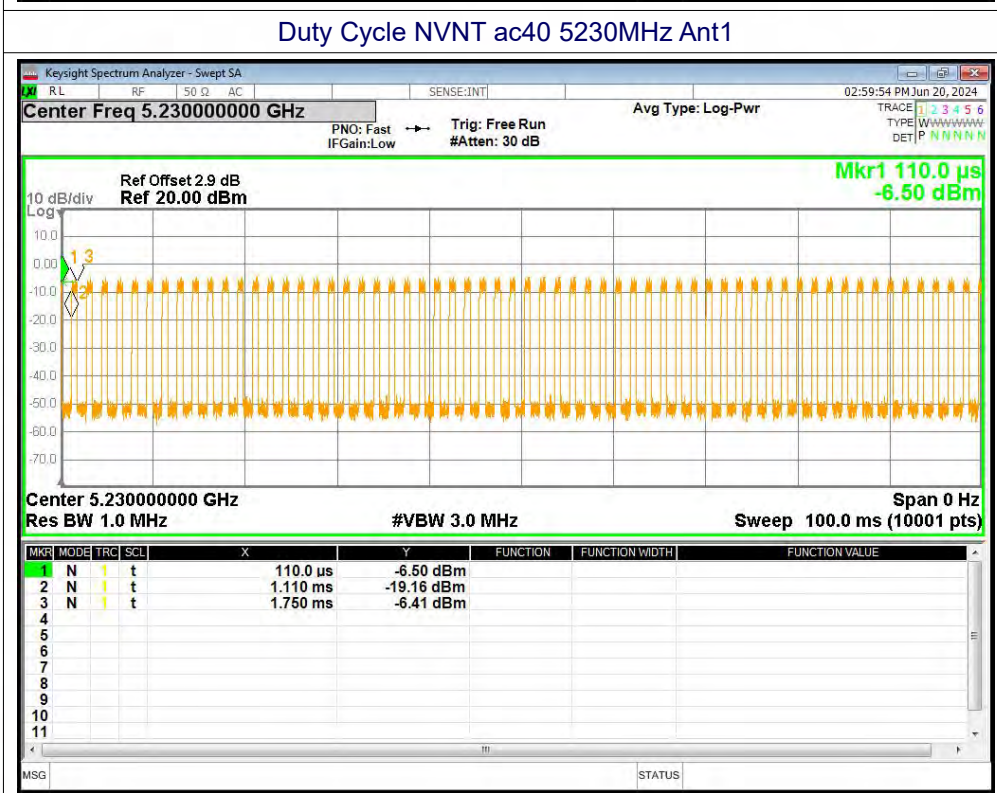
Duty Cycle NVNT ac20 5240MHz Ant2



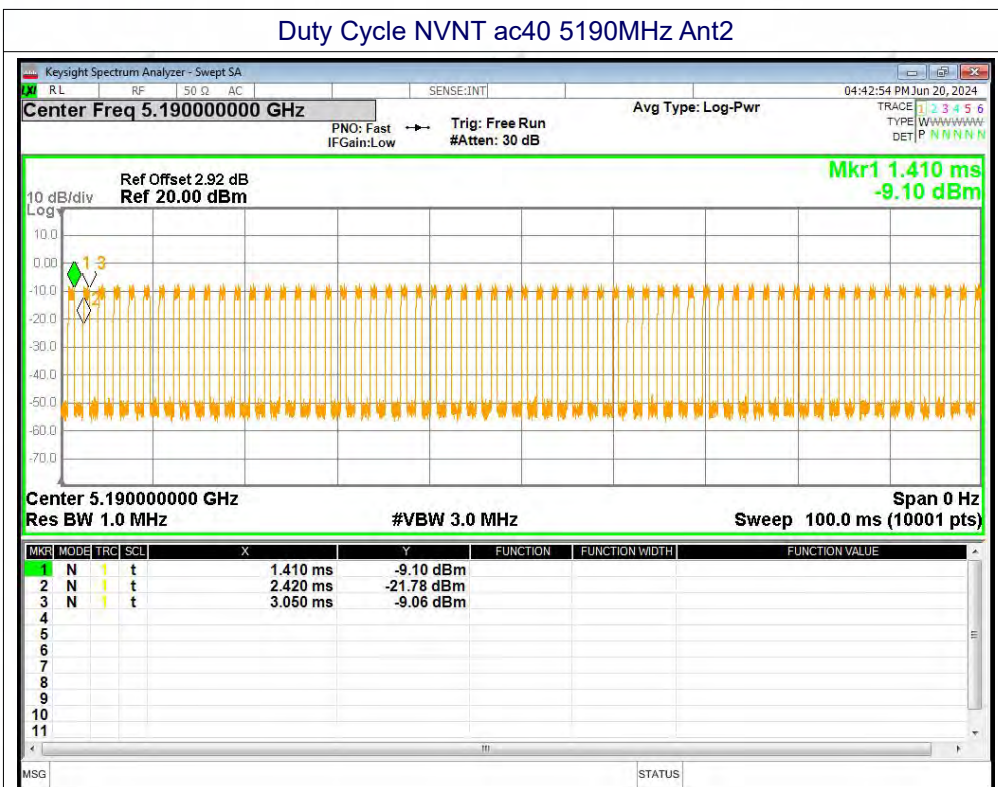
Duty Cycle NVNT ac40 5190MHz Ant1



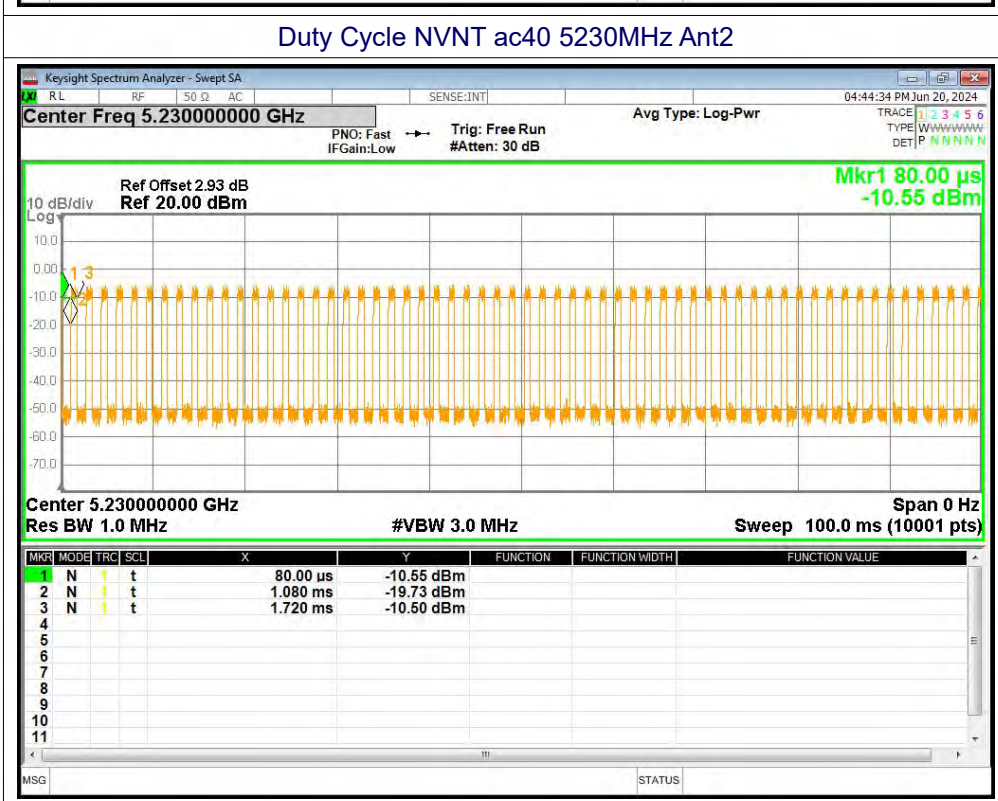
Duty Cycle NVNT ac40 5230MHz Ant1



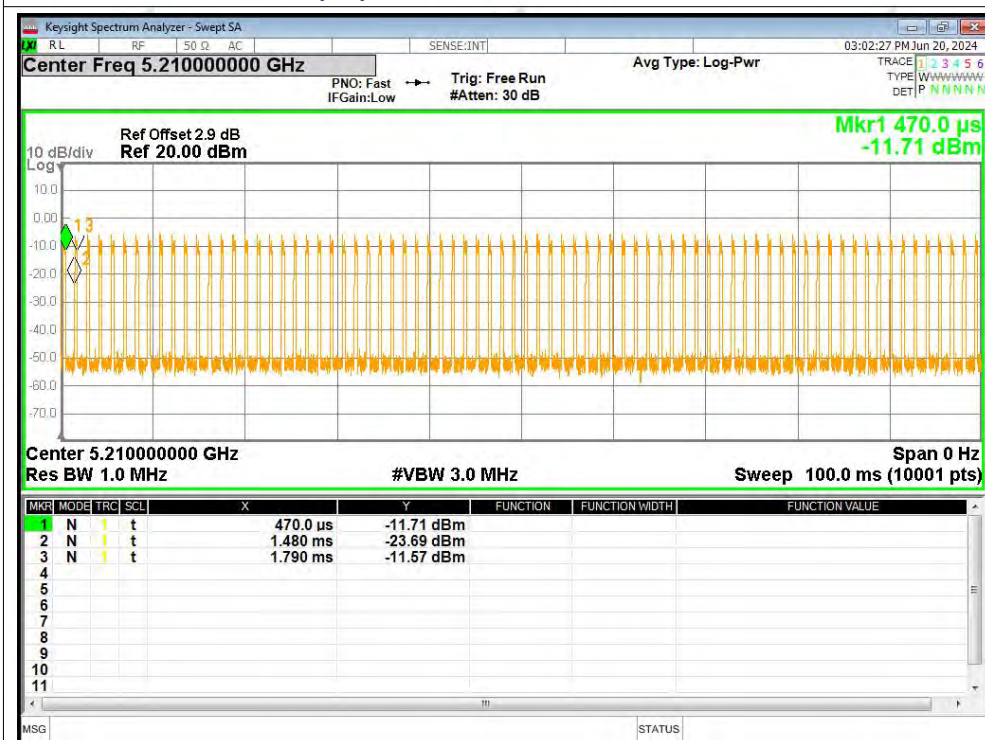
Duty Cycle NVNT ac40 5190MHz Ant2



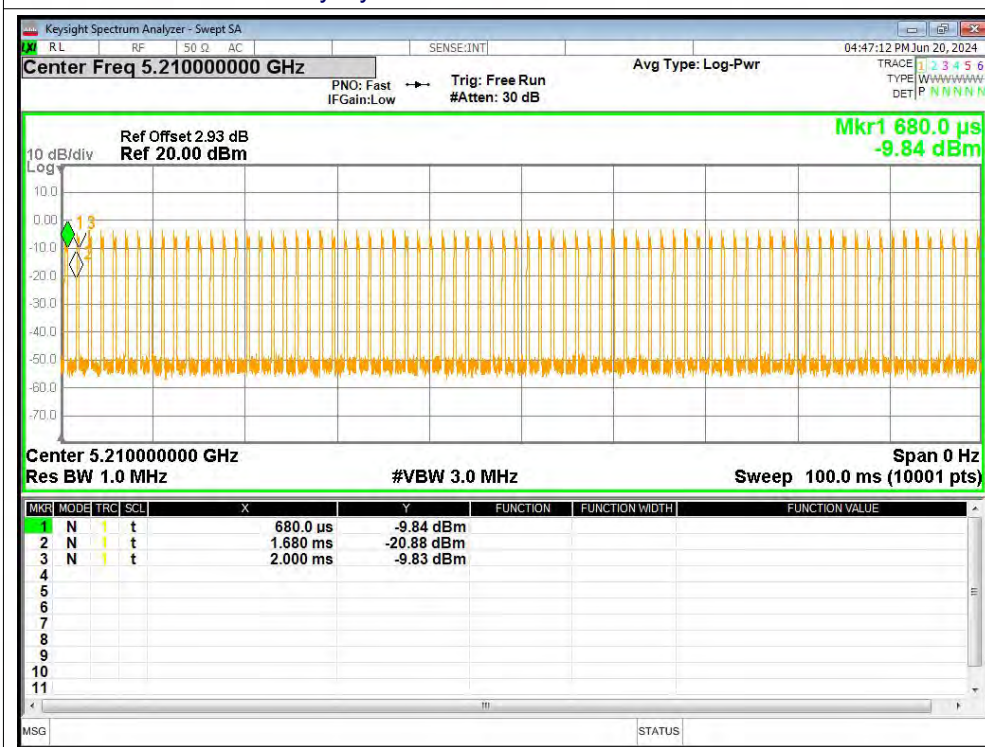
Duty Cycle NVNT ac40 5230MHz Ant2



Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant2



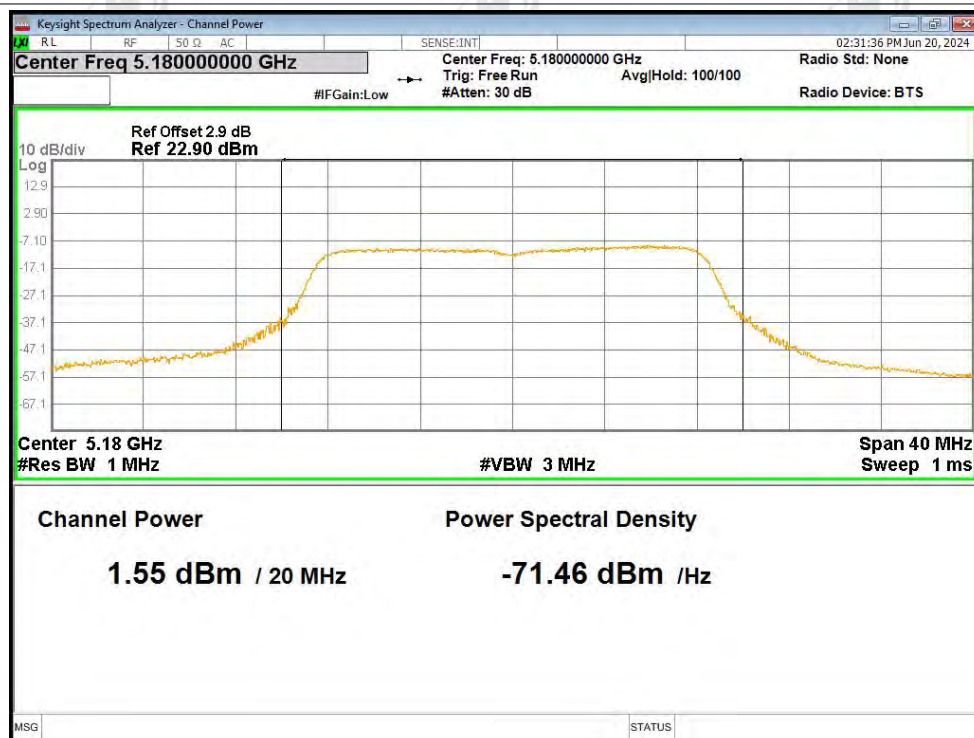


A2. Maximum Conducted Output Power

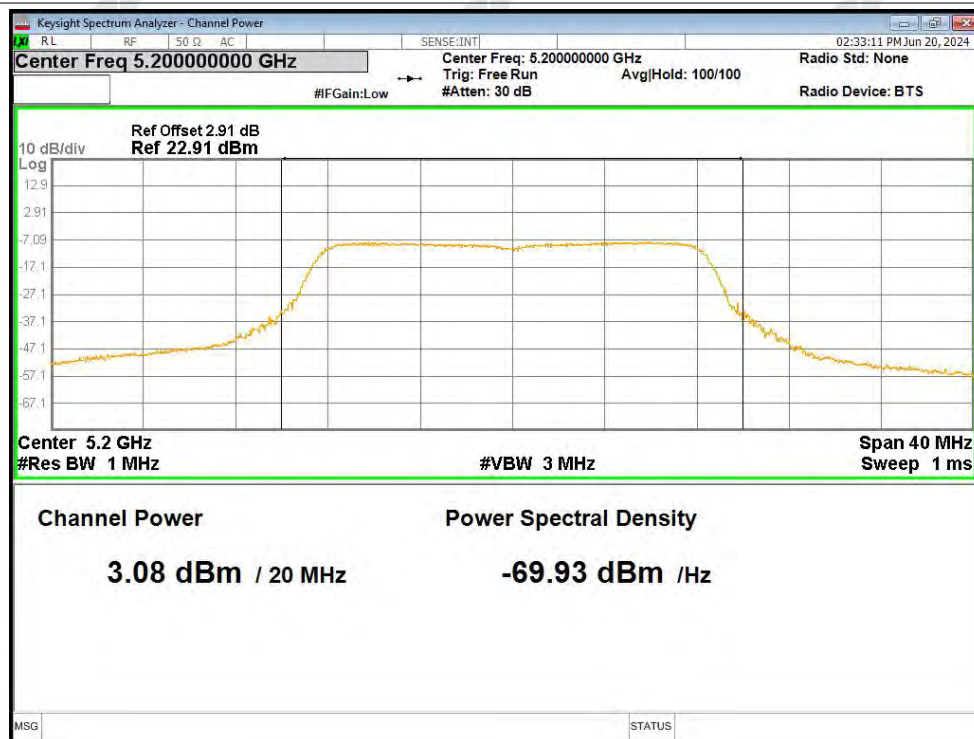
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.55	2.39	3.94	24	Pass
NVNT	a	5200	Ant1	3.08	2.41	5.49	24	Pass
NVNT	a	5240	Ant1	1.61	2.41	4.02	24	Pass
NVNT	a	5180	Ant2	1.83	2.39	4.22	24	Pass
NVNT	a	5200	Ant2	0.19	2.39	2.58	24	Pass
NVNT	a	5240	Ant2	2.46	2.39	4.85	24	Pass
NVNT	n20	5180	Ant1	1.13	2.52	3.65	24	Pass
NVNT	n20	5200	Ant1	1.92	2.52	4.44	24	Pass
NVNT	n20	5240	Ant1	2	2.52	4.52	24	Pass
NVNT	n20	5180	Ant2	0.66	2.52	3.18	24	Pass
NVNT	n20	5200	Ant2	1.31	2.54	3.85	24	Pass
NVNT	n20	5240	Ant2	2.56	2.51	5.07	24	Pass
NVNT	n40	5190	Ant1	1.51	4.09	5.6	24	Pass
NVNT	n40	5230	Ant1	2.41	4.16	6.57	24	Pass
NVNT	n40	5190	Ant2	0.04	4.09	4.13	24	Pass
NVNT	n40	5230	Ant2	1.27	4.09	5.36	24	Pass
NVNT	ac20	5180	Ant1	1.44	2.54	3.98	24	Pass
NVNT	ac20	5200	Ant1	2.35	2.51	4.86	24	Pass
NVNT	ac20	5240	Ant1	2.22	2.51	4.73	24	Pass
NVNT	ac20	5180	Ant2	0.75	2.51	3.26	24	Pass
NVNT	ac20	5200	Ant2	0.62	2.51	3.13	24	Pass
NVNT	ac20	5240	Ant2	2.26	2.51	4.77	24	Pass
NVNT	ac40	5190	Ant1	1.71	4.09	5.8	24	Pass
NVNT	ac40	5230	Ant1	1.78	4.09	5.87	24	Pass
NVNT	ac40	5190	Ant2	-0.26	4.16	3.9	24	Pass
NVNT	ac40	5230	Ant2	1.31	4.09	5.4	24	Pass
NVNT	ac80	5210	Ant1	0.05	6.29	6.34	24	Pass
NVNT	ac80	5210	Ant2	1.69	6.15	7.84	24	Pass

Test Graphs

Power NVNT a 5180MHz Ant1



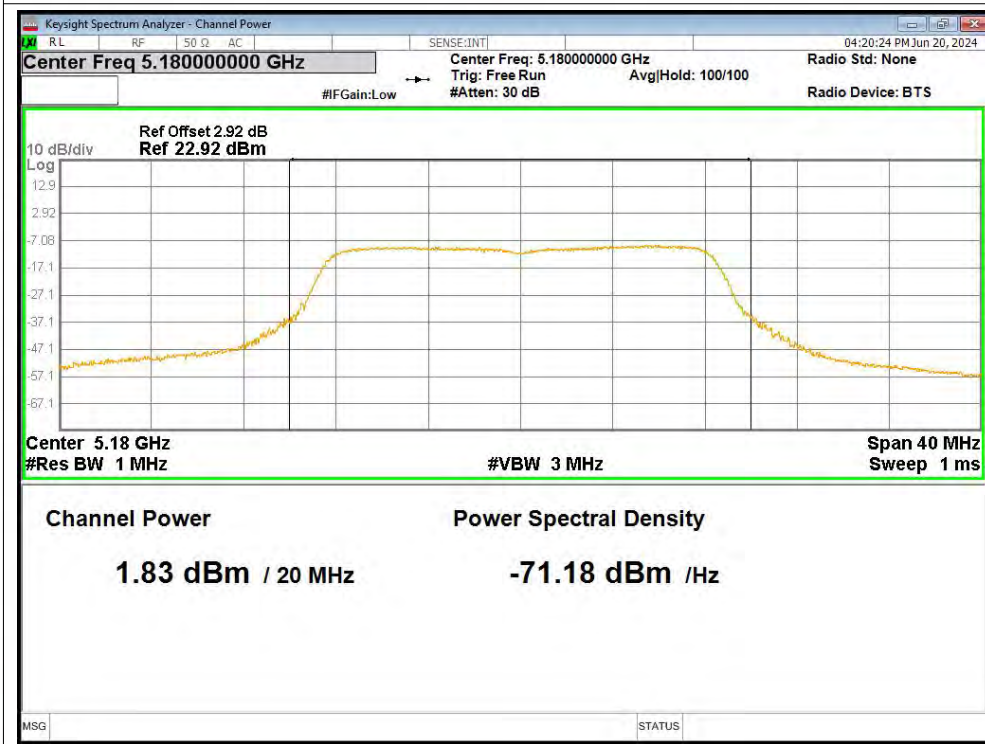
Power NVNT a 5200MHz Ant1



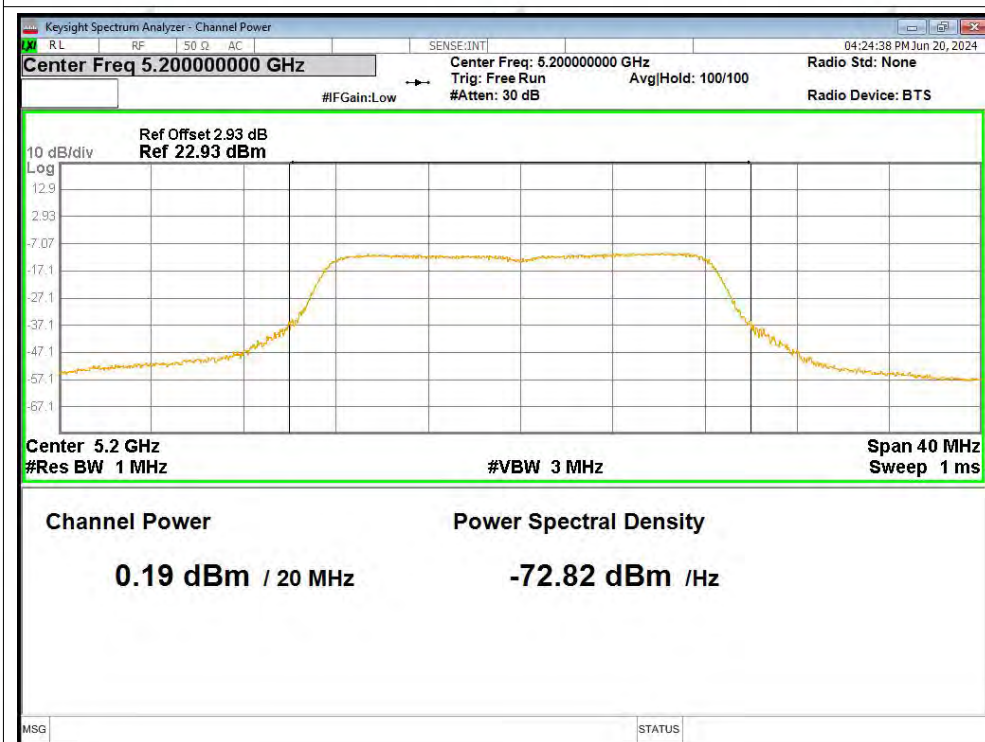
Power NVNT a 5240MHz Ant1



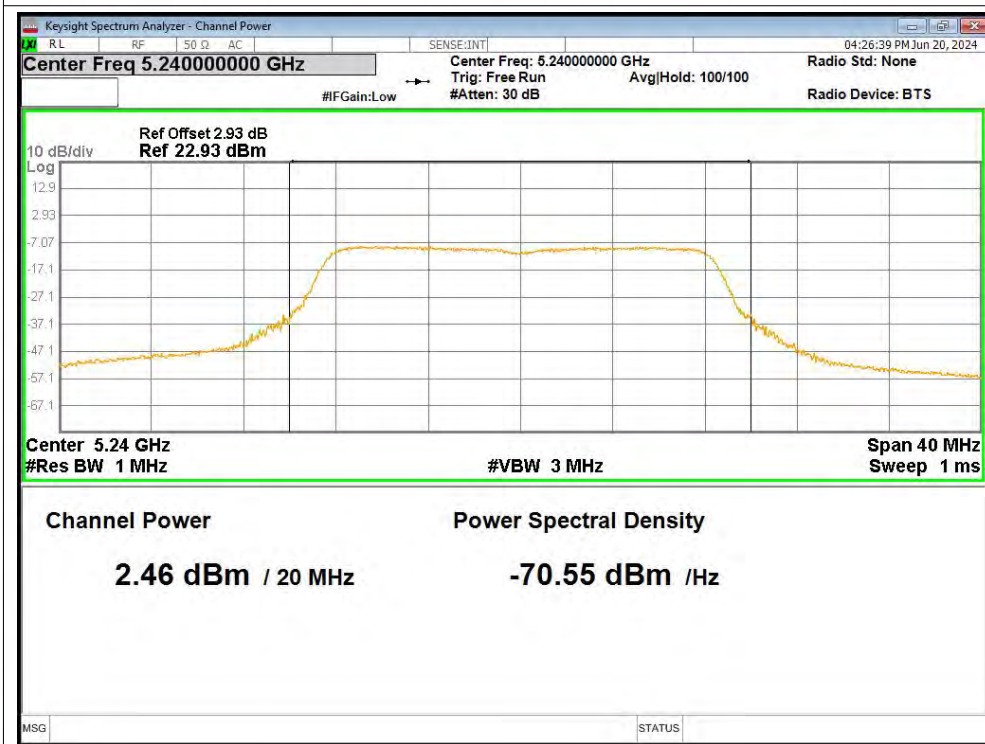
Power NVNT a 5180MHz Ant2



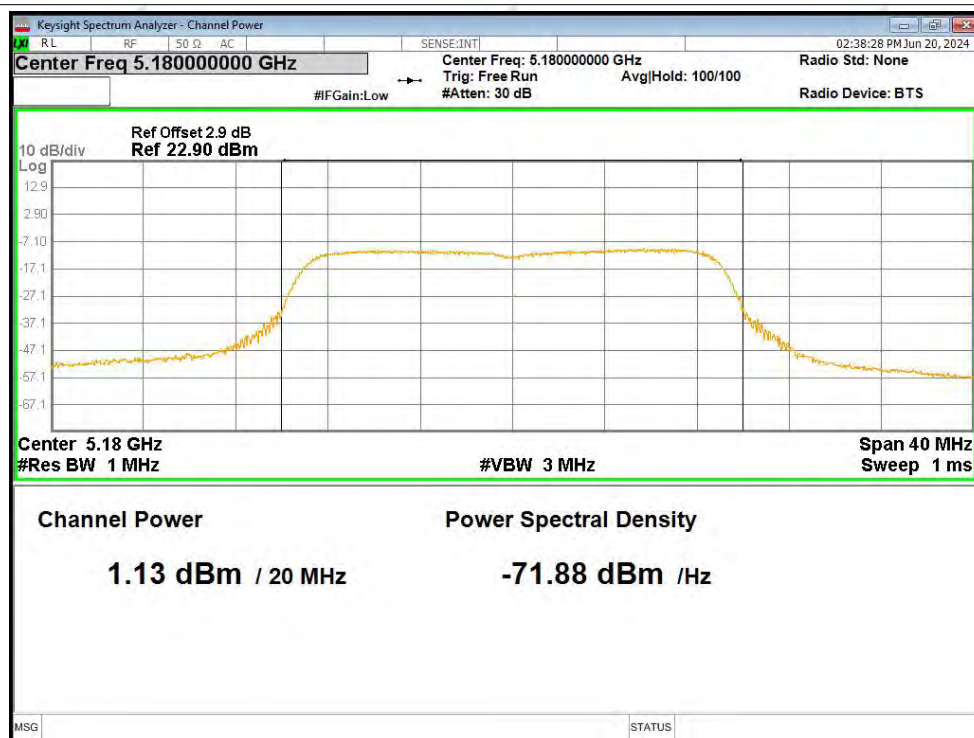
Power NVNT a 5200MHz Ant2



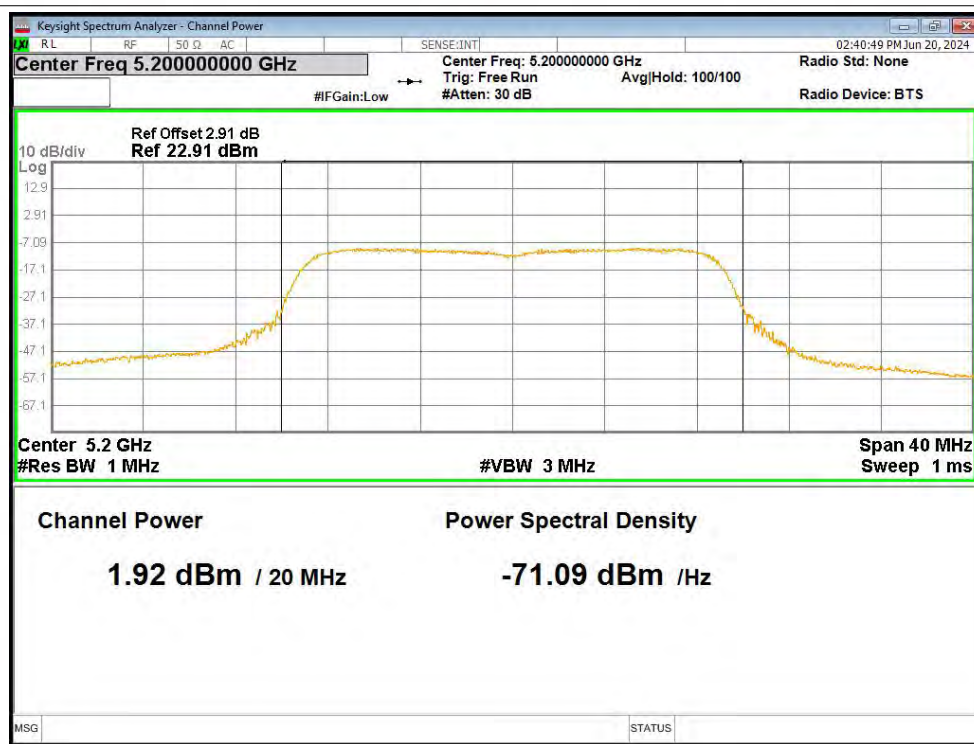
Power NVNT a 5240MHz Ant2



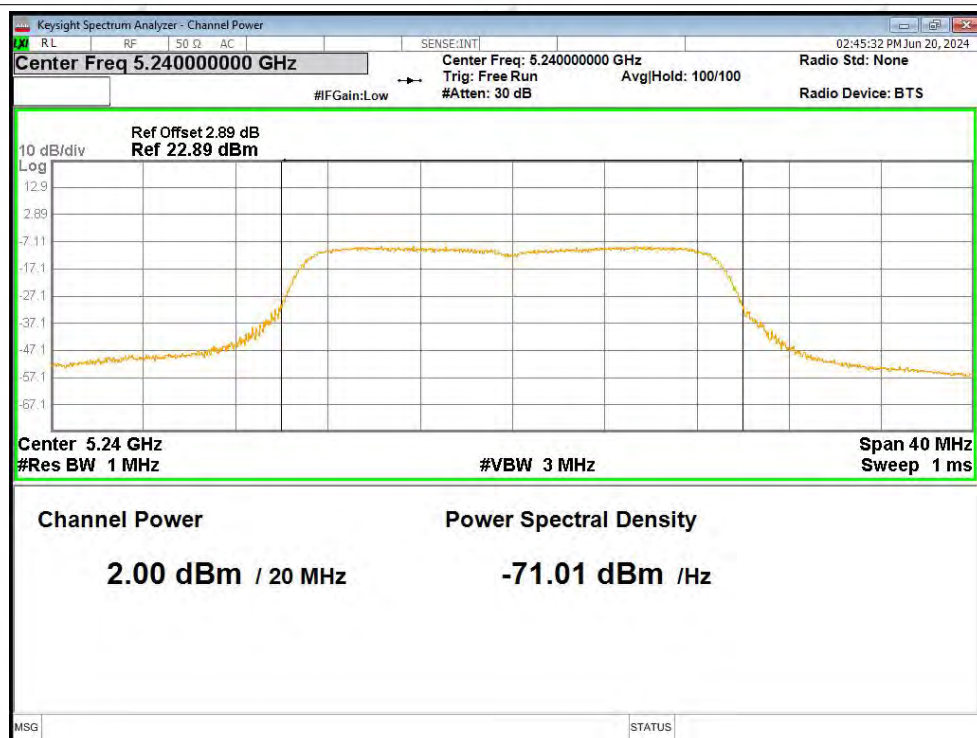
Power NVNT n20 5180MHz Ant1



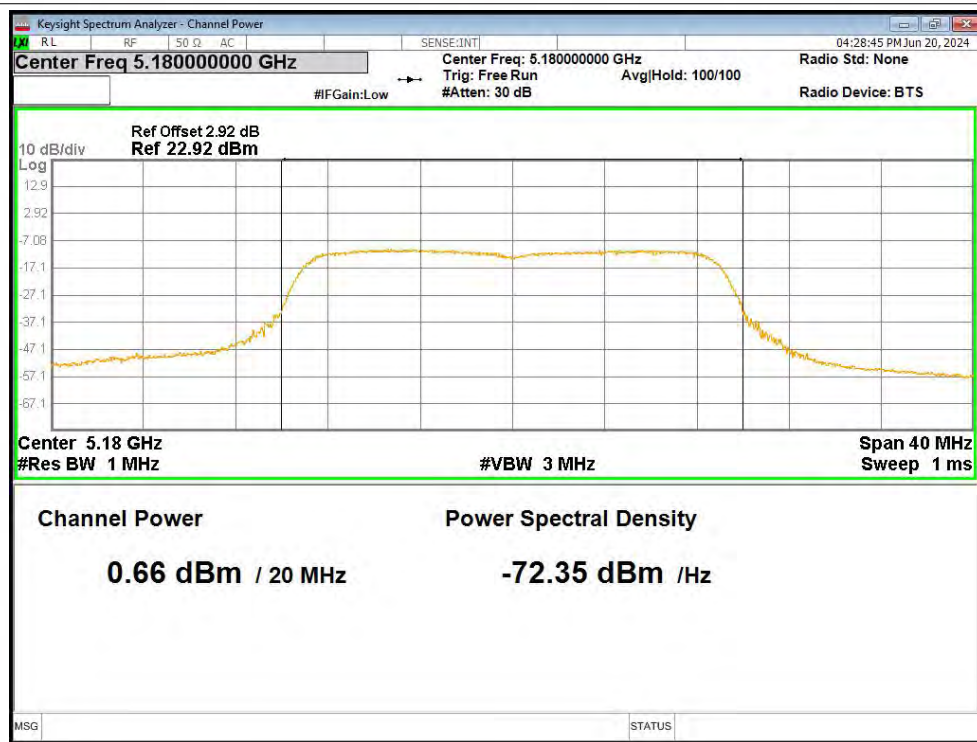
Power NVNT n20 5200MHz Ant1



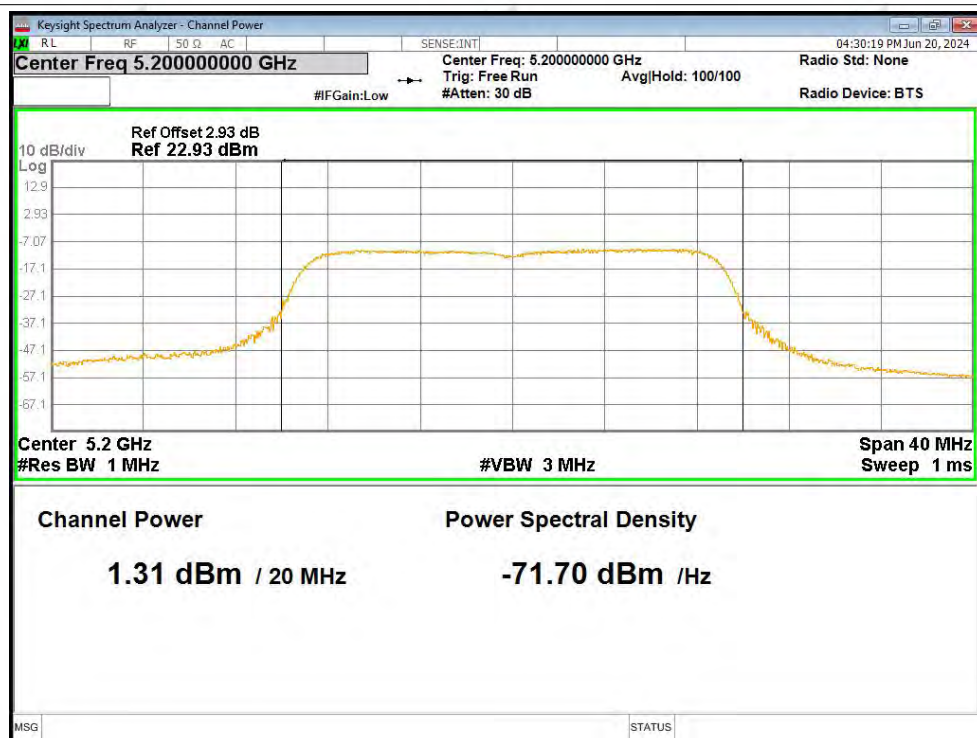
Power NVNT n20 5240MHz Ant1



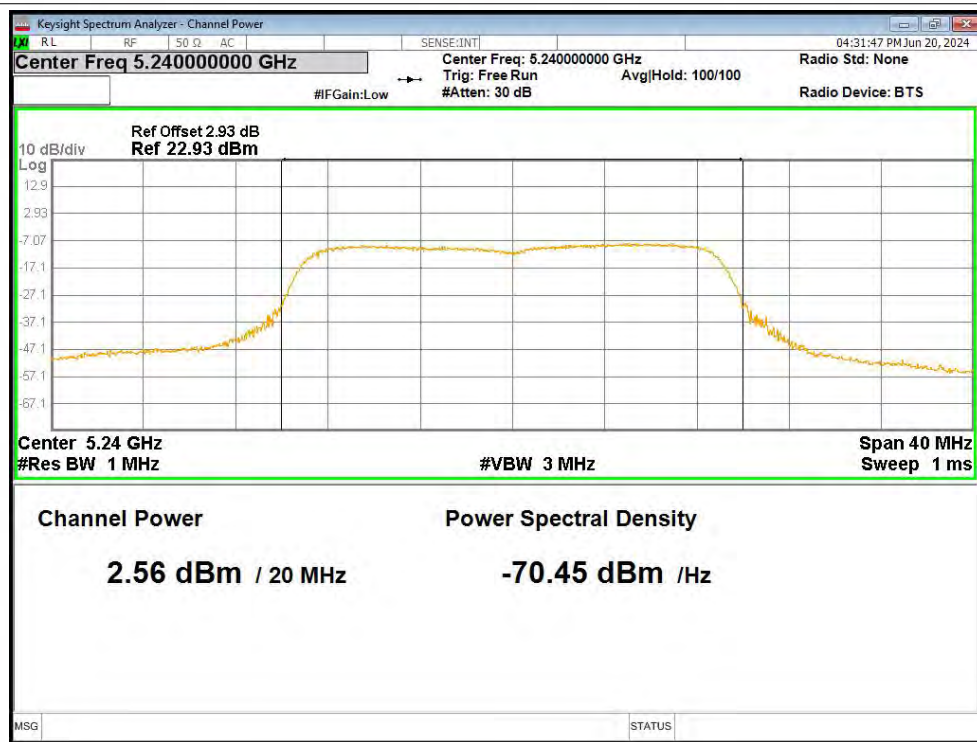
Power NVNT n20 5180MHz Ant2



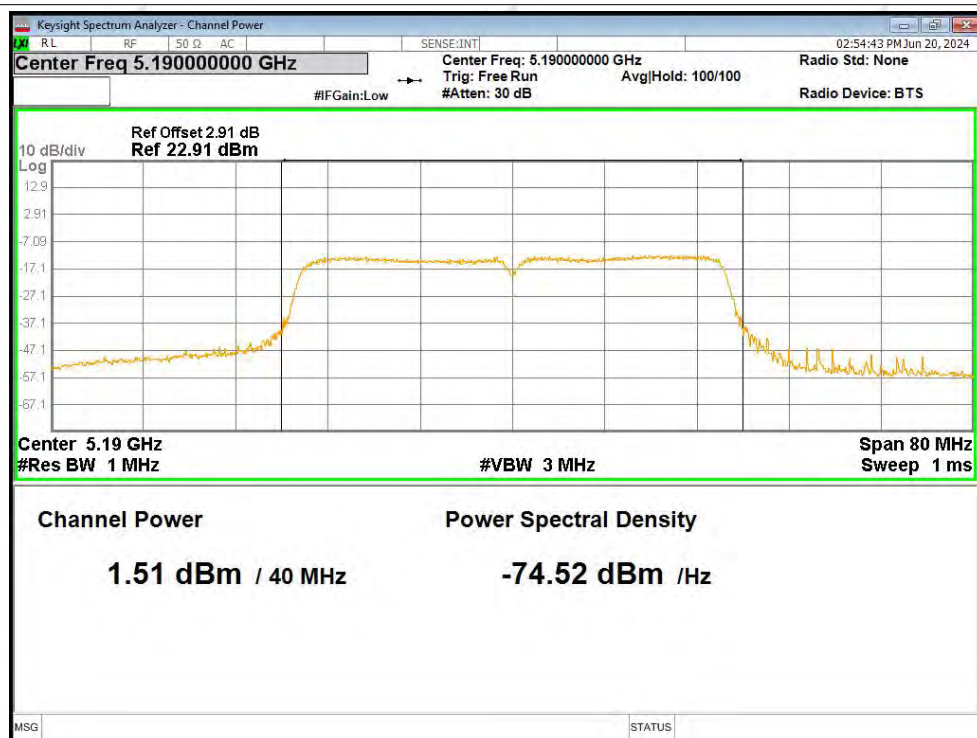
Power NVNT n20 5200MHz Ant2



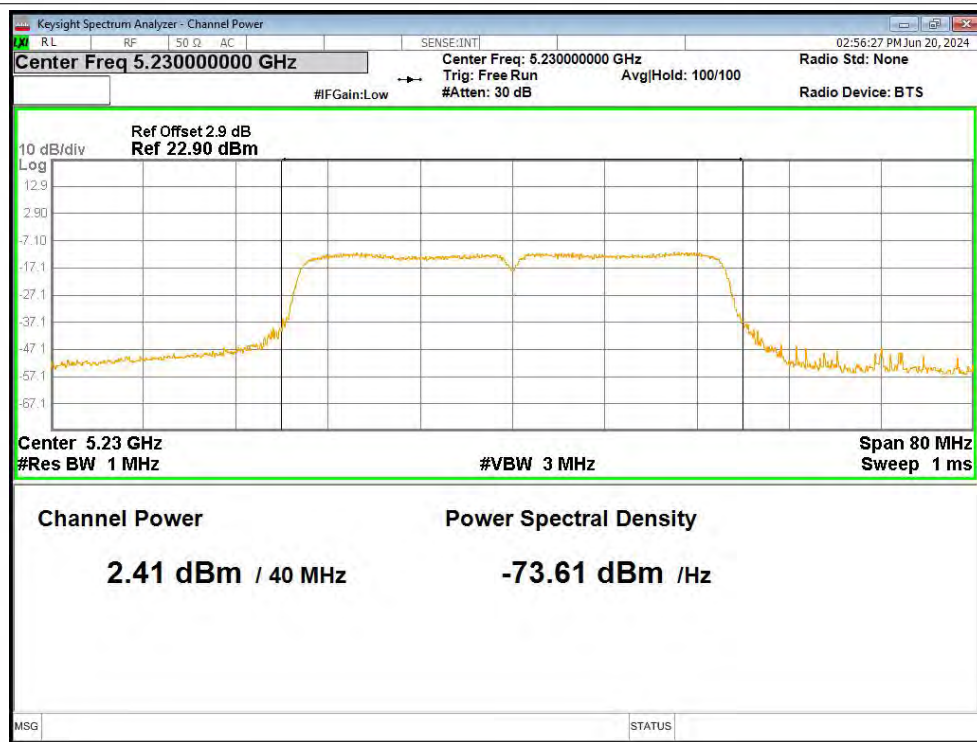
Power NVNT n20 5240MHz Ant2



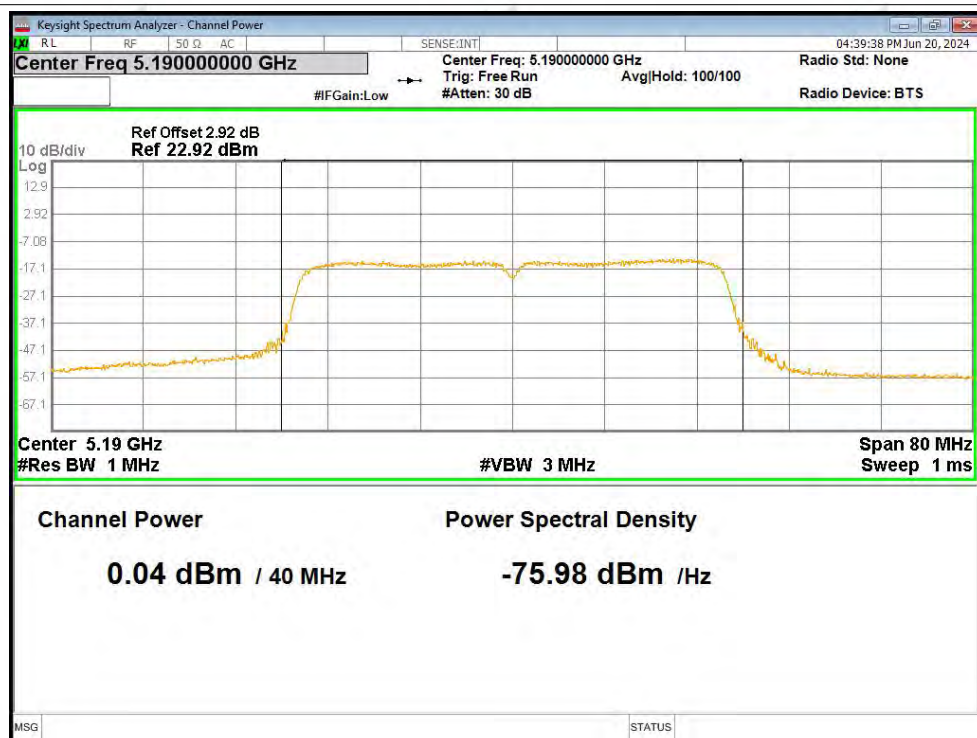
Power NVNT n40 5190MHz Ant1



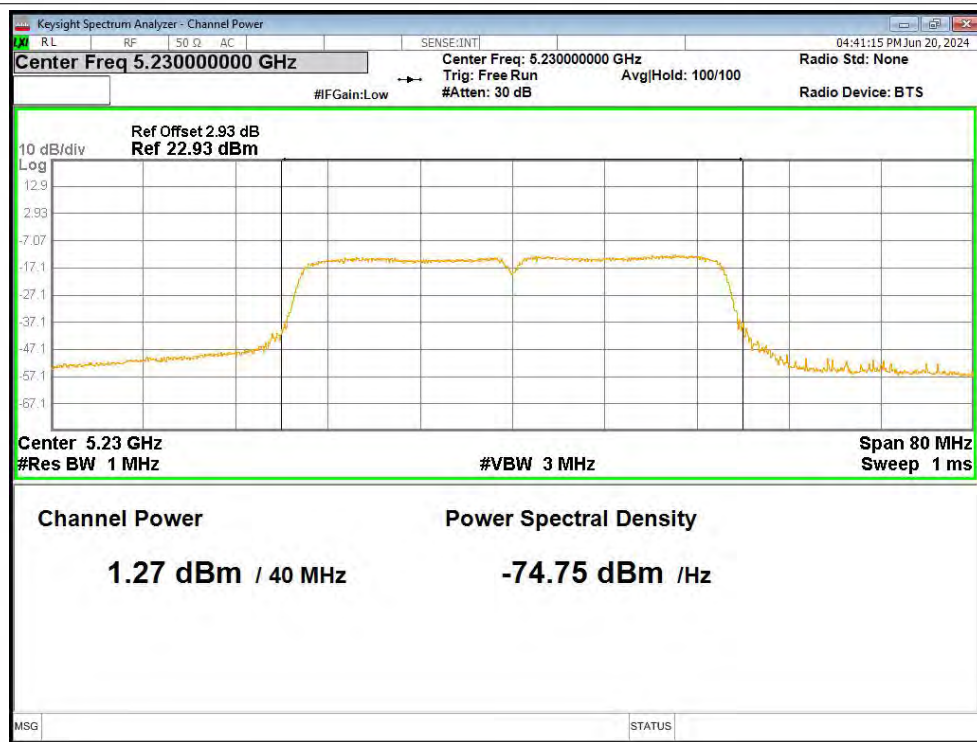
Power NVNT n40 5230MHz Ant1



Power NVNT n40 5190MHz Ant2



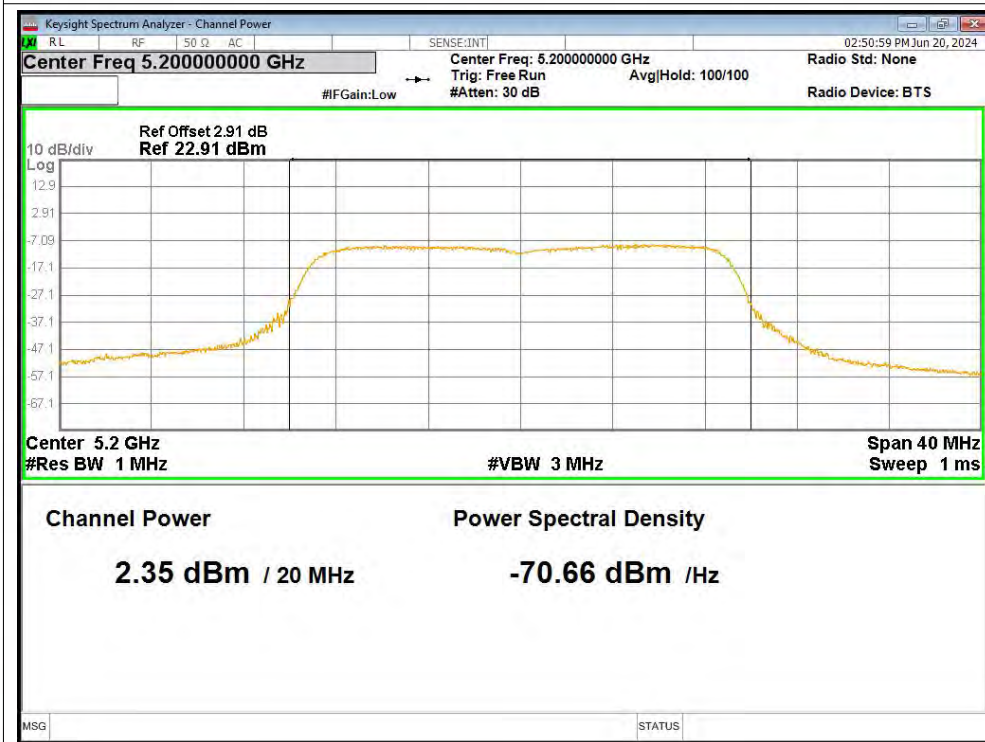
Power NVNT n40 5230MHz Ant2



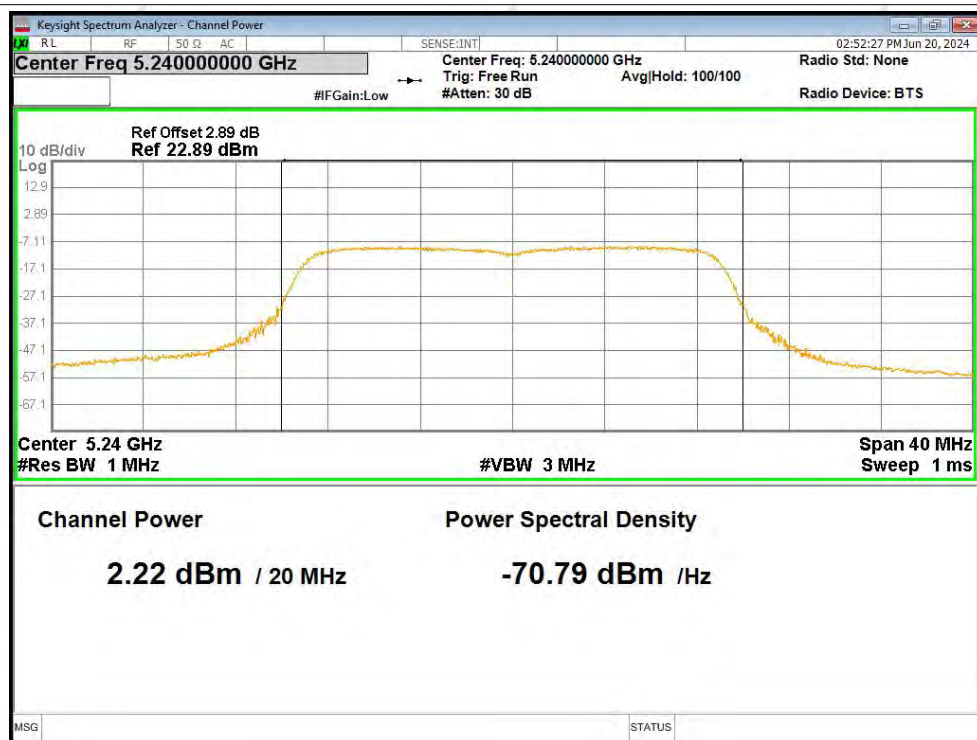
Power NVNT ac20 5180MHz Ant1



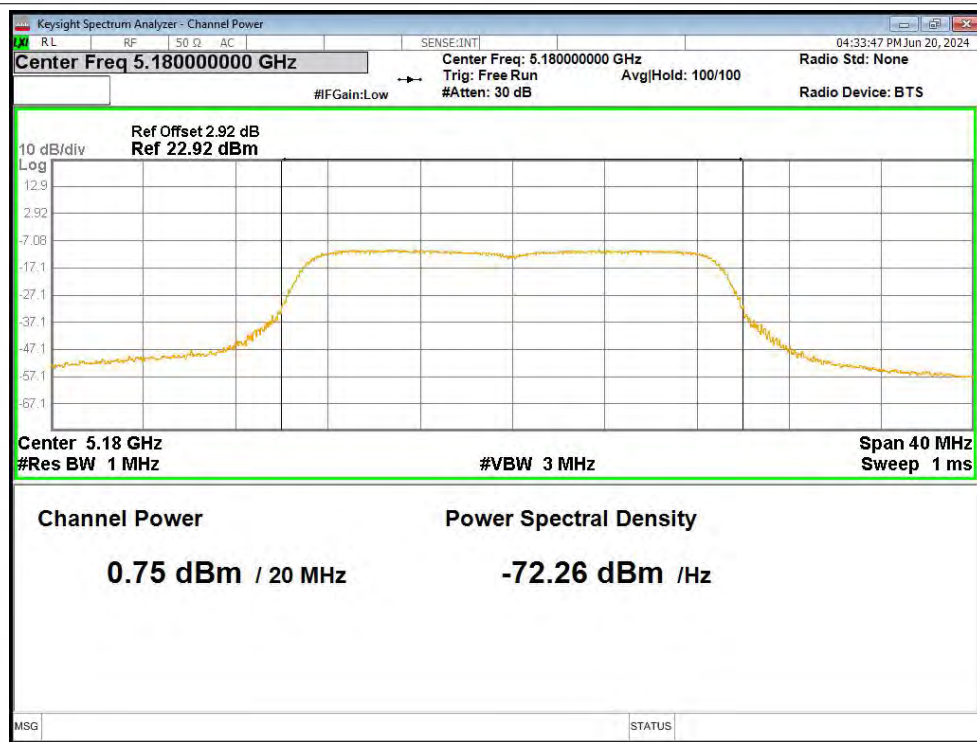
Power NVNT ac20 5200MHz Ant1



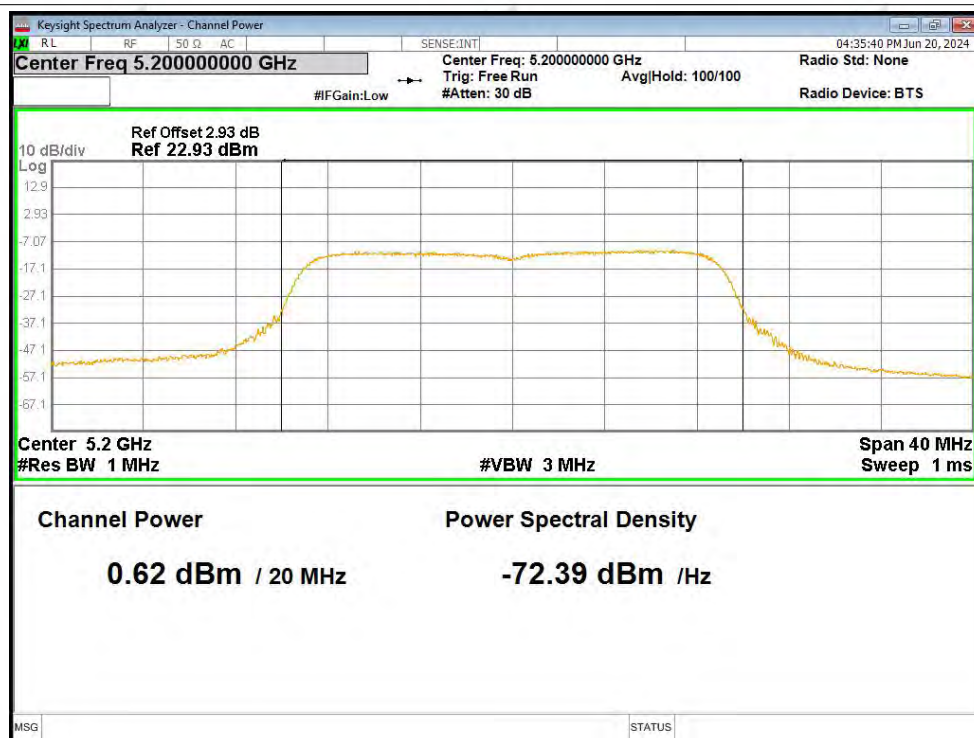
Power NVNT ac20 5240MHz Ant1



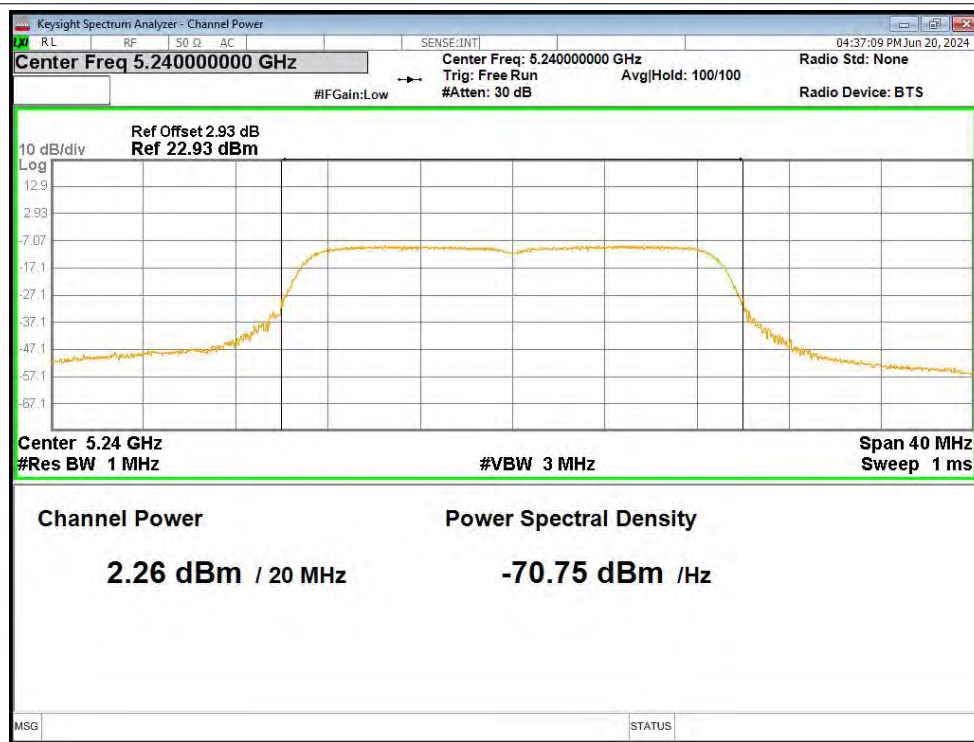
Power NVNT ac20 5180MHz Ant2



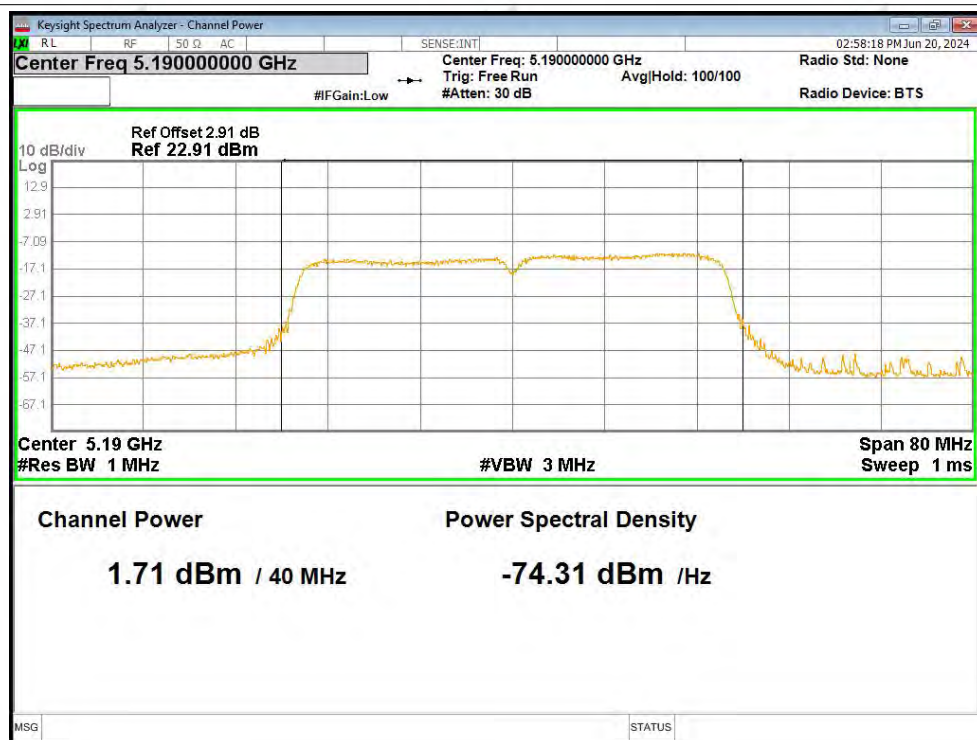
Power NVNT ac20 5200MHz Ant2



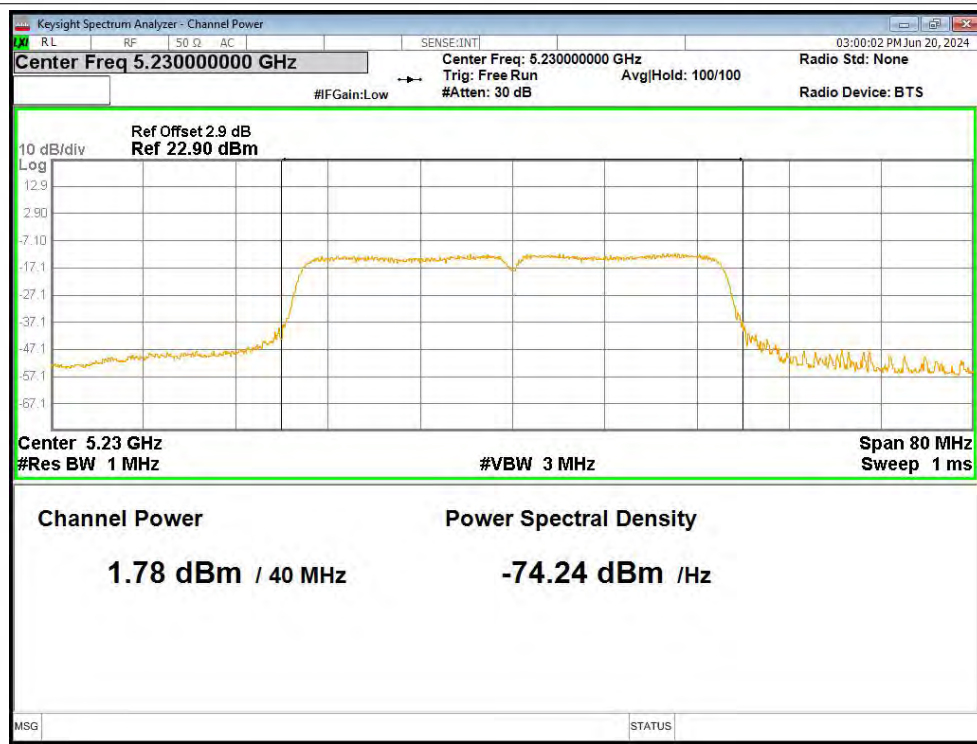
Power NVNT ac20 5240MHz Ant2



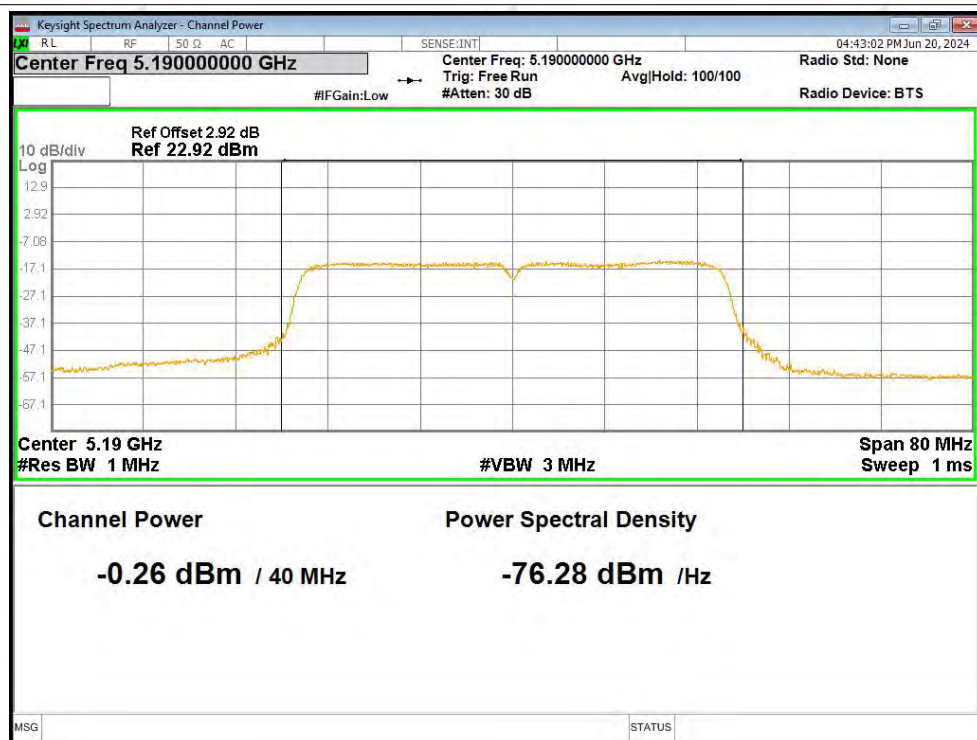
Power NVNT ac40 5190MHz Ant1



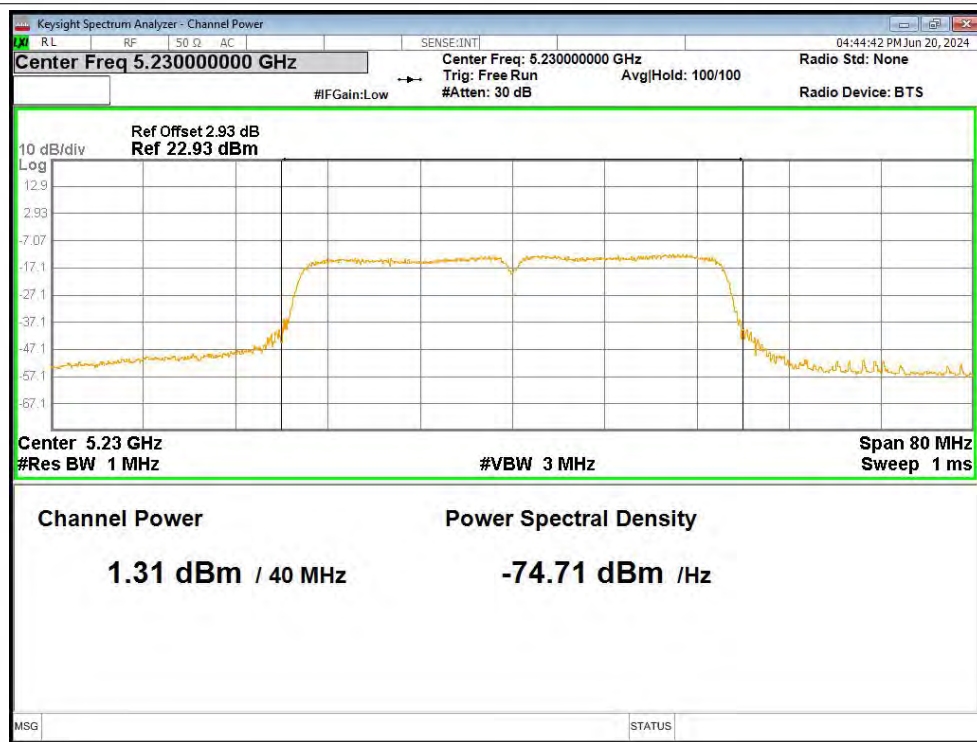
Power NVNT ac40 5230MHz Ant1



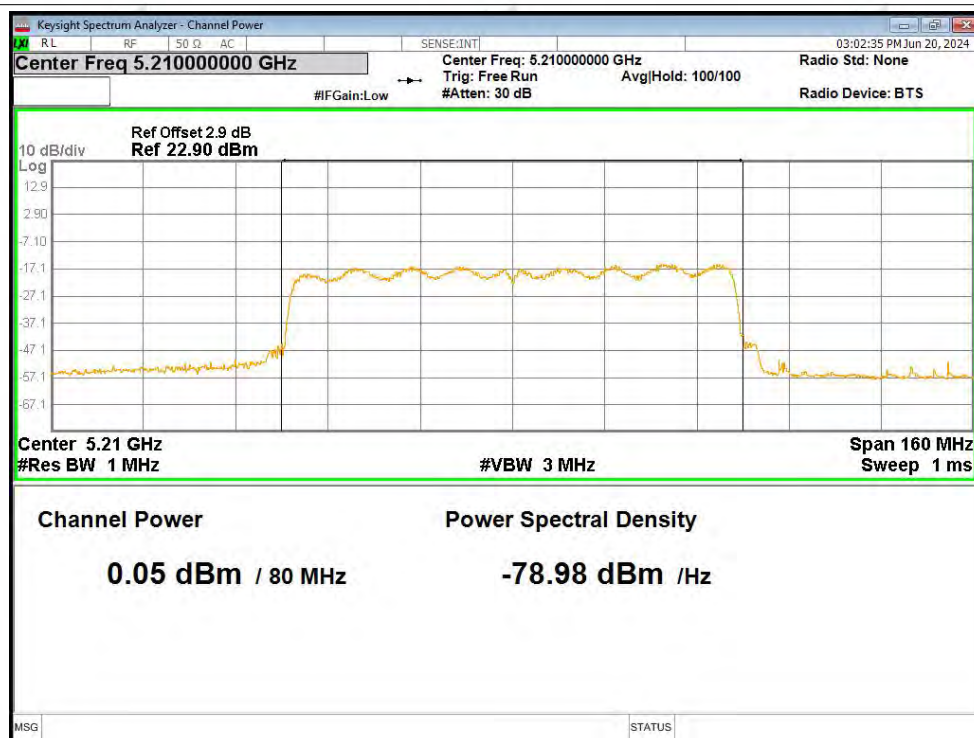
Power NVNT ac40 5190MHz Ant2



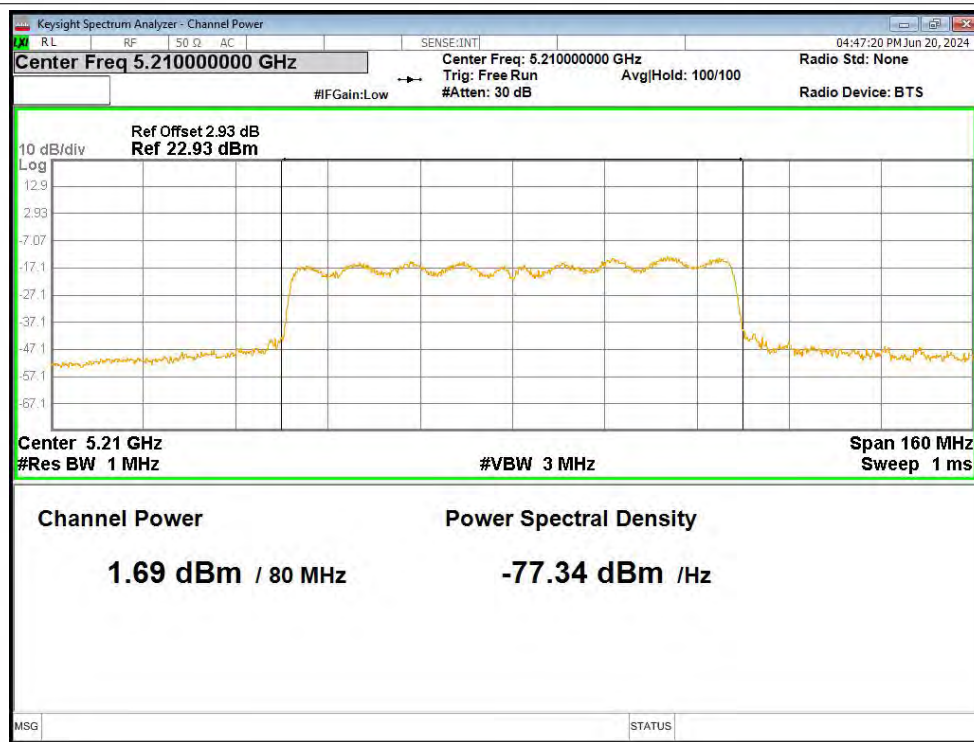
Power NVNT ac40 5230MHz Ant2



Power NVNT ac80 5210MHz Ant1



Power NVNT ac80 5210MHz Ant2



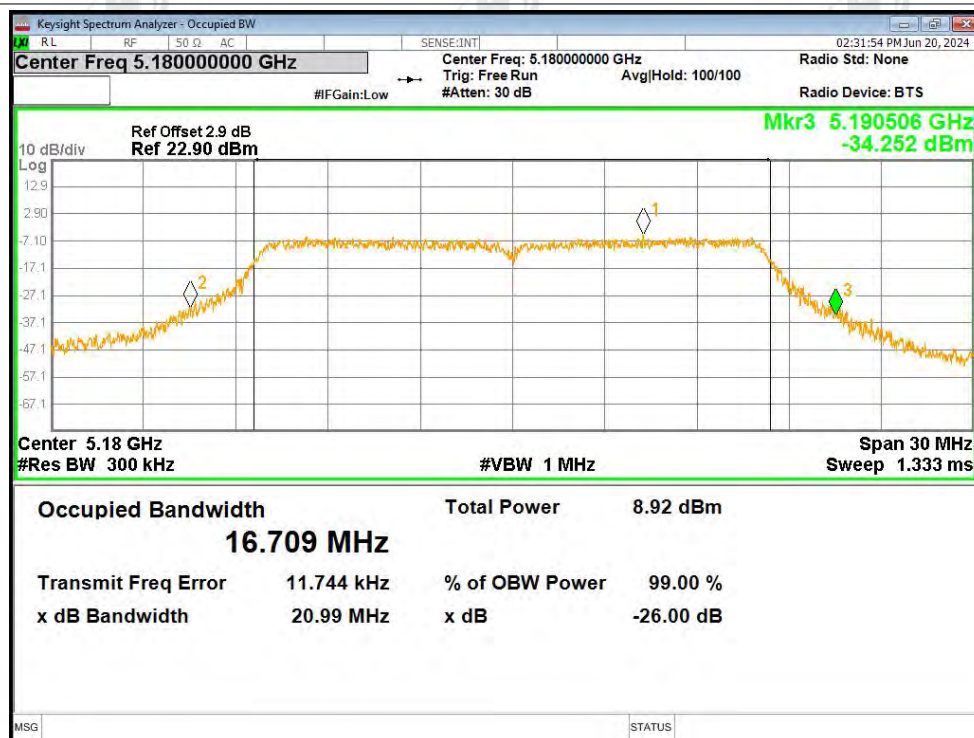


A3. -26dB Bandwidth

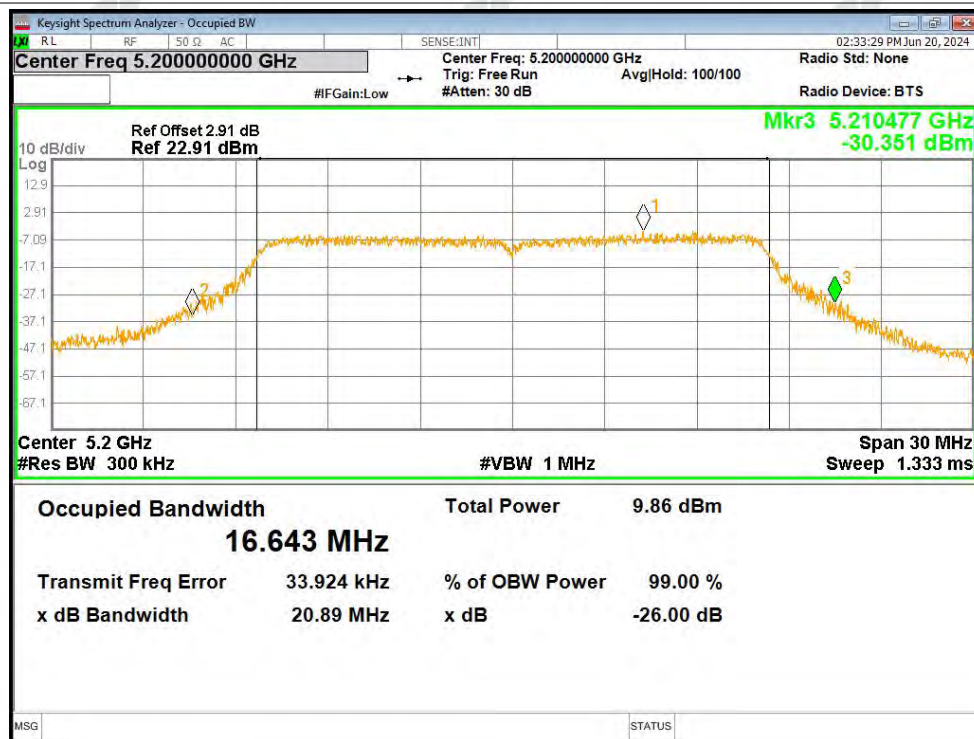
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.989	Pass
NVNT	a	5200	Ant1	20.886	Pass
NVNT	a	5240	Ant1	20.819	Pass
NVNT	a	5180	Ant2	21.064	Pass
NVNT	a	5200	Ant2	20.983	Pass
NVNT	a	5240	Ant2	20.81	Pass
NVNT	n20	5180	Ant1	21.421	Pass
NVNT	n20	5200	Ant1	21.159	Pass
NVNT	n20	5240	Ant1	20.909	Pass
NVNT	n20	5180	Ant2	21.374	Pass
NVNT	n20	5200	Ant2	21.274	Pass
NVNT	n20	5240	Ant2	21.114	Pass
NVNT	n40	5190	Ant1	41.891	Pass
NVNT	n40	5230	Ant1	41.94	Pass
NVNT	n40	5190	Ant2	40.744	Pass
NVNT	n40	5230	Ant2	40.633	Pass
NVNT	ac20	5180	Ant1	21.46	Pass
NVNT	ac20	5200	Ant1	21.185	Pass
NVNT	ac20	5240	Ant1	21.42	Pass
NVNT	ac20	5180	Ant2	21.166	Pass
NVNT	ac20	5200	Ant2	21.438	Pass
NVNT	ac20	5240	Ant2	21.225	Pass
NVNT	ac40	5190	Ant1	41.222	Pass
NVNT	ac40	5230	Ant1	41.08	Pass
NVNT	ac40	5190	Ant2	40.958	Pass
NVNT	ac40	5230	Ant2	40.493	Pass
NVNT	ac80	5210	Ant1	79.563	Pass
NVNT	ac80	5210	Ant2	82.644	Pass

Test Graphs

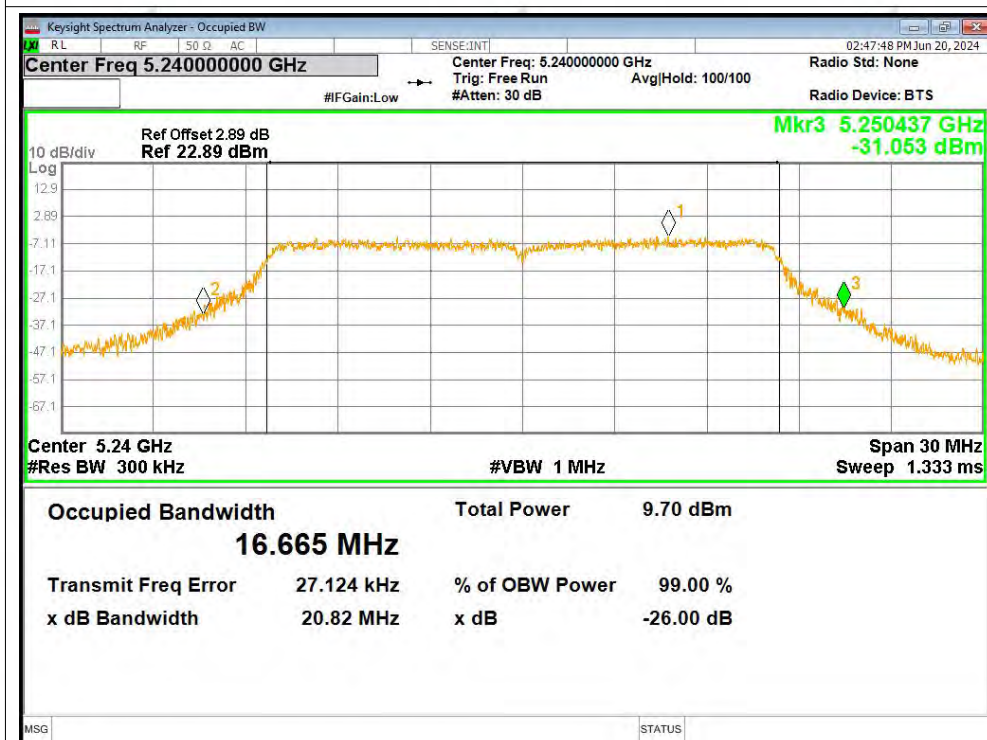
-26dB Bandwidth NVNT a 5180MHz Ant1



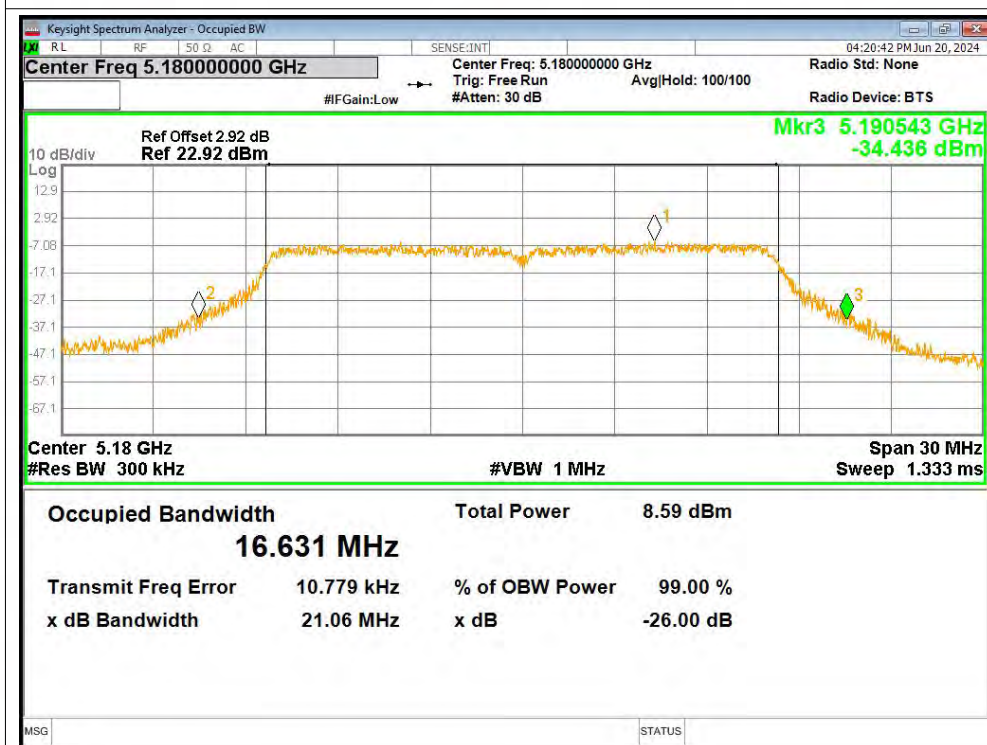
-26dB Bandwidth NVNT a 5200MHz Ant1



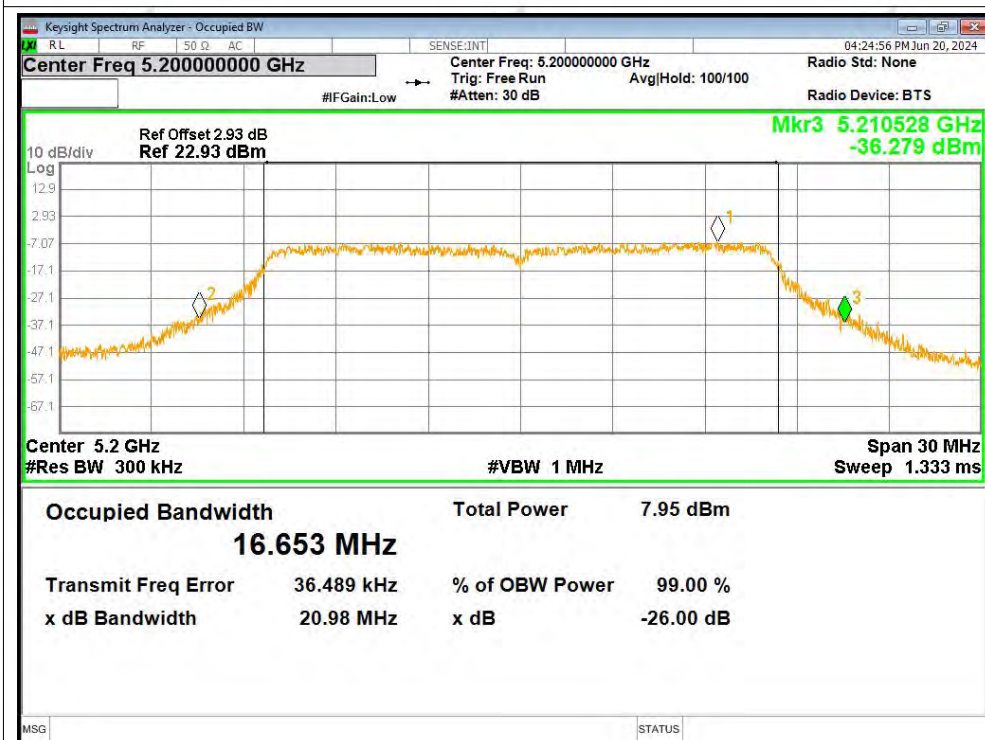
-26dB Bandwidth NVNT a 5240MHz Ant1



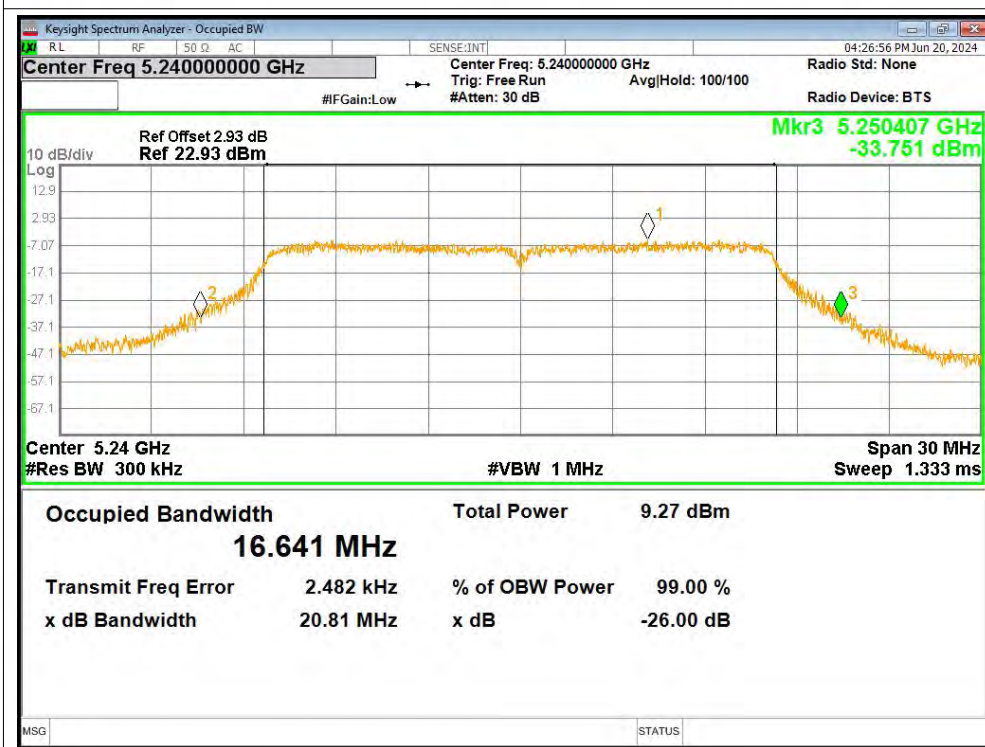
-26dB Bandwidth NVNT a 5180MHz Ant2



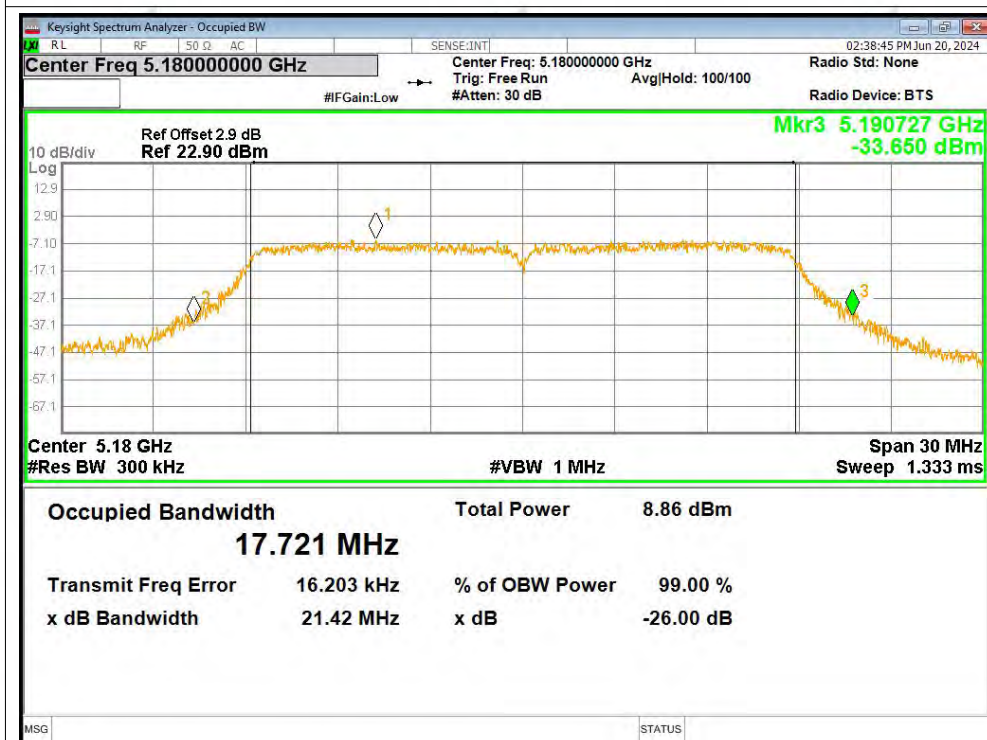
-26dB Bandwidth NVNT a 5200MHz Ant2



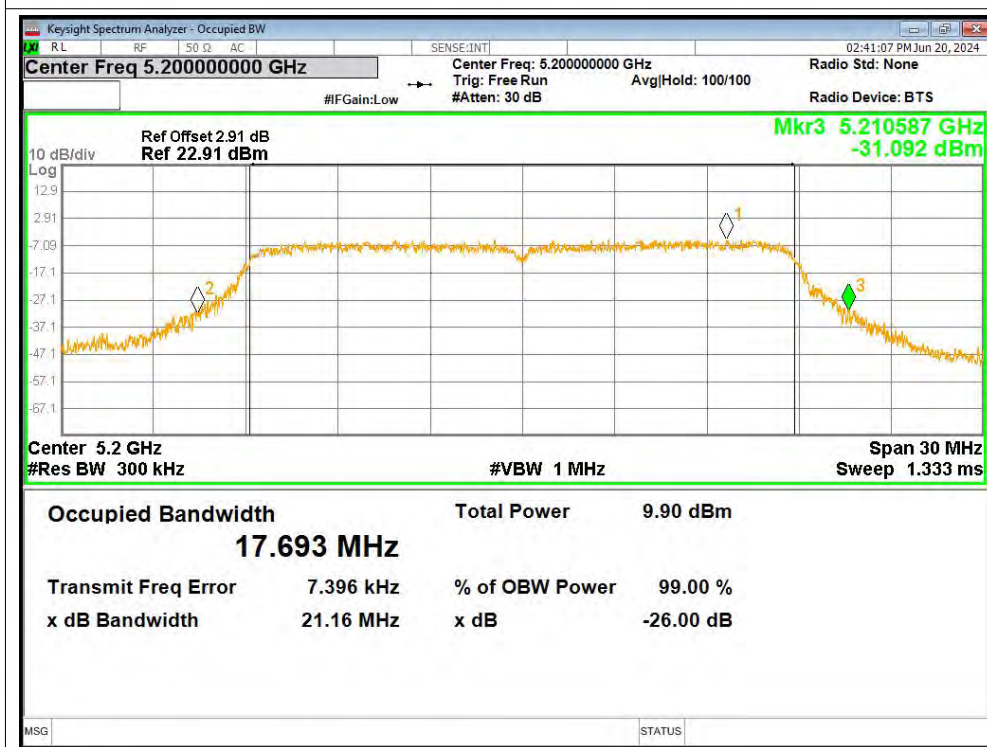
-26dB Bandwidth NVNT a 5240MHz Ant2



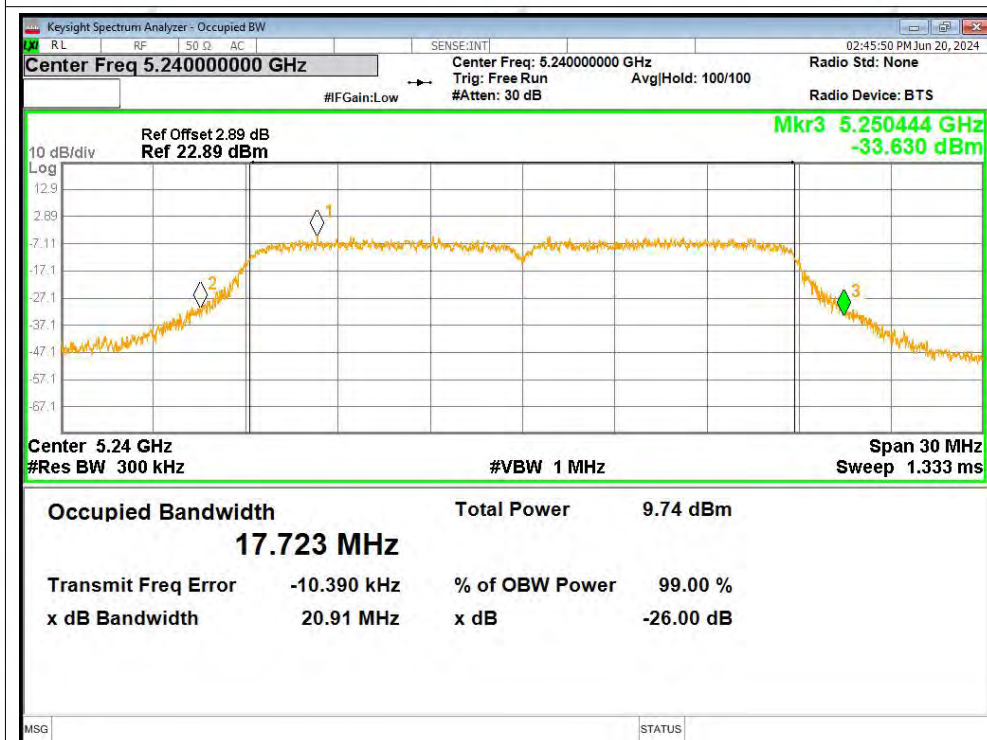
-26dB Bandwidth NVNT n20 5180MHz Ant1



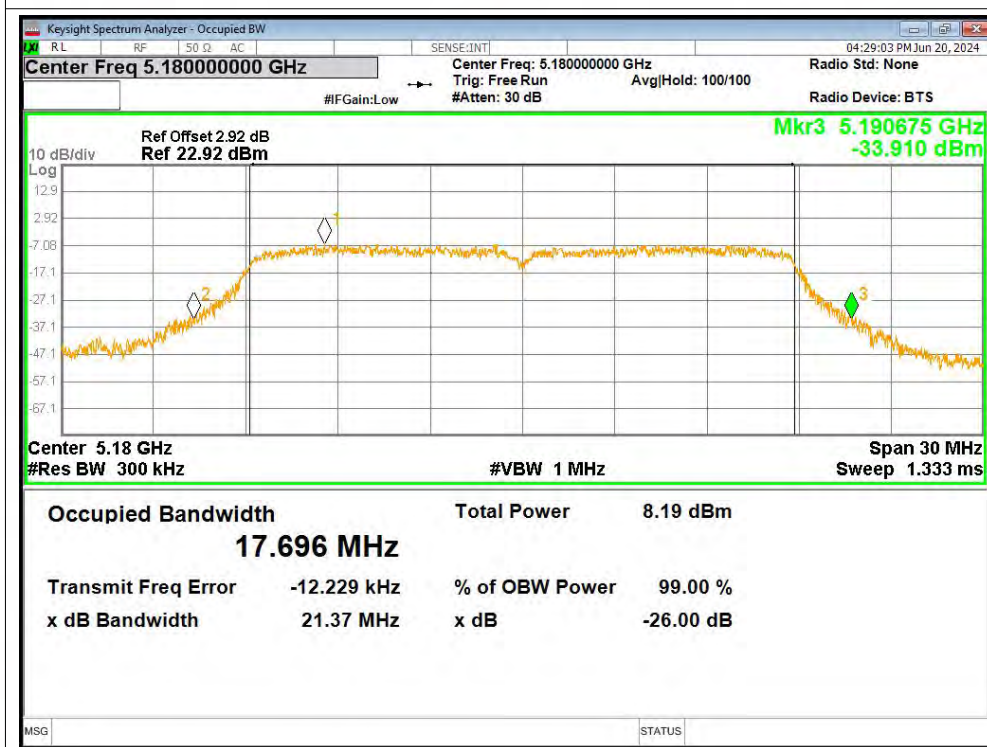
-26dB Bandwidth NVNT n20 5200MHz Ant1



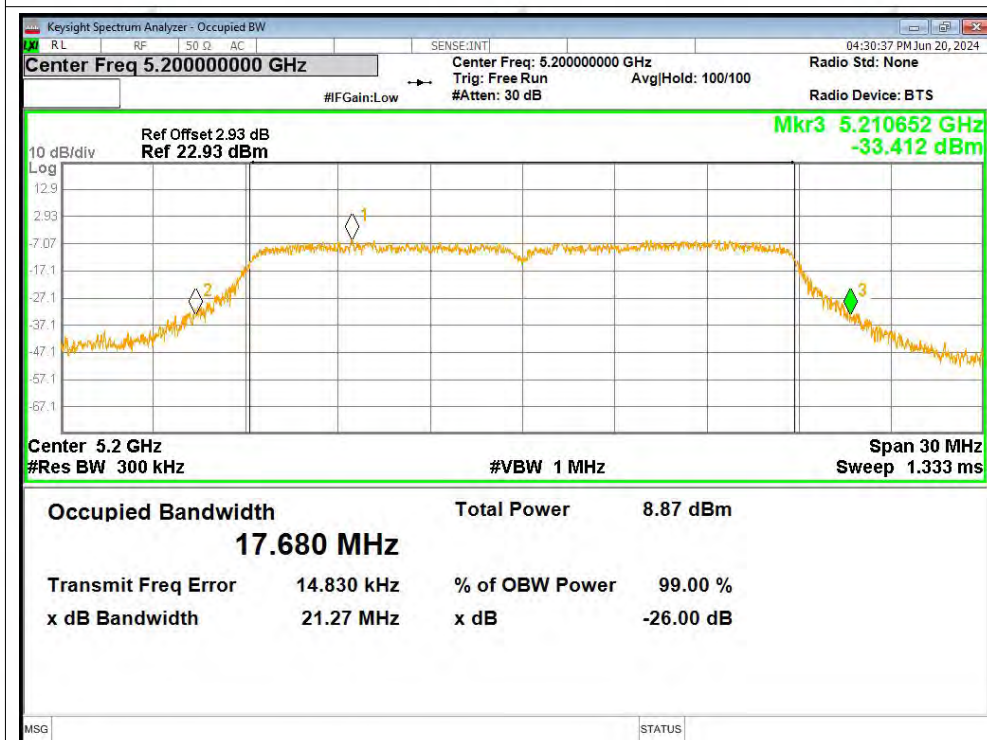
-26dB Bandwidth NVNT n20 5240MHz Ant1



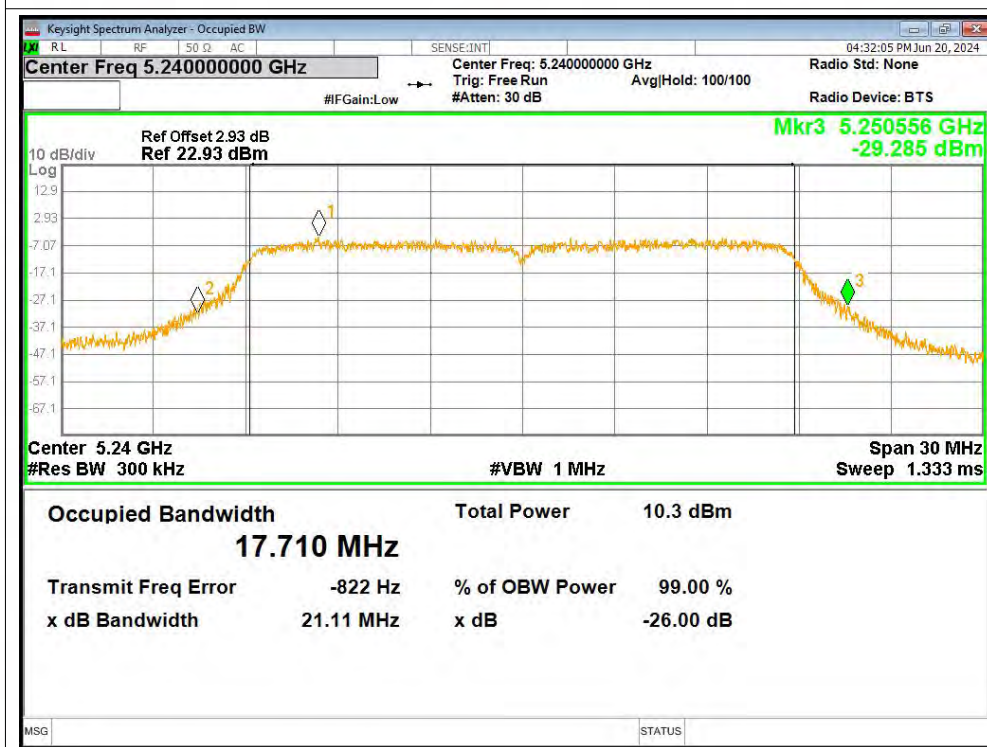
-26dB Bandwidth NVNT n20 5180MHz Ant2



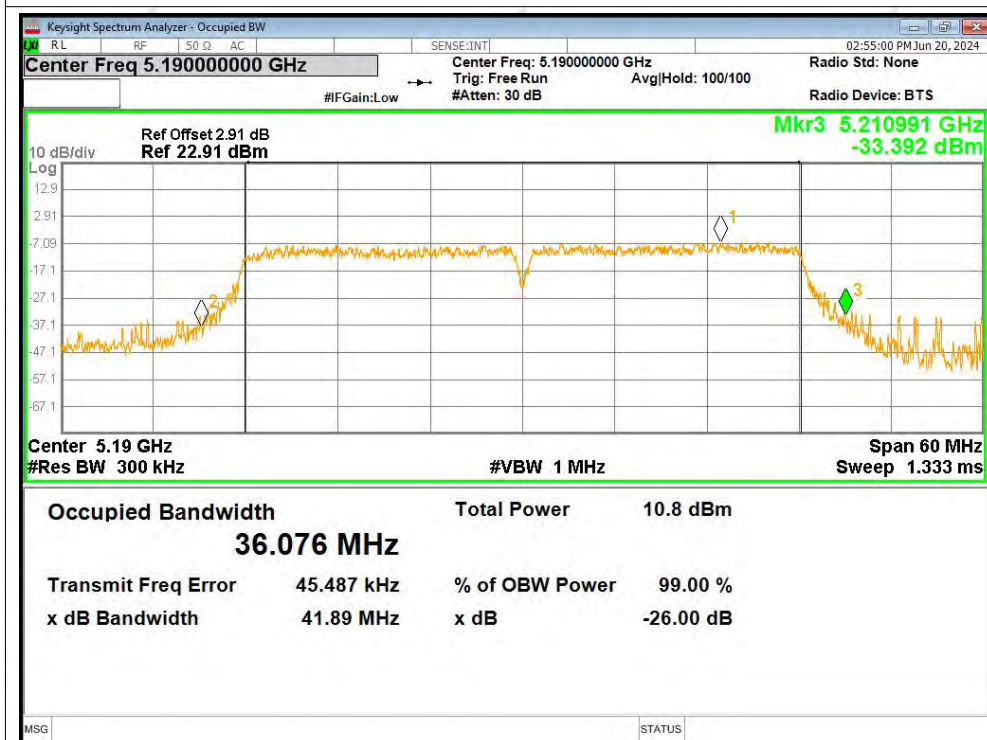
-26dB Bandwidth NVNT n20 5200MHz Ant2



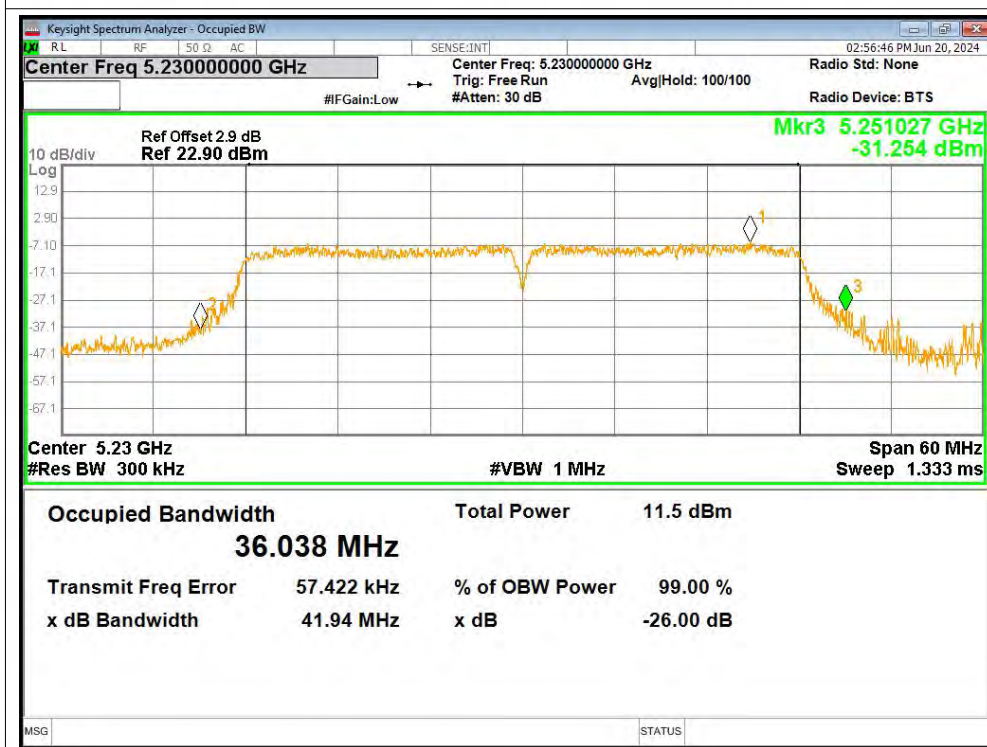
-26dB Bandwidth NVNT n20 5240MHz Ant2



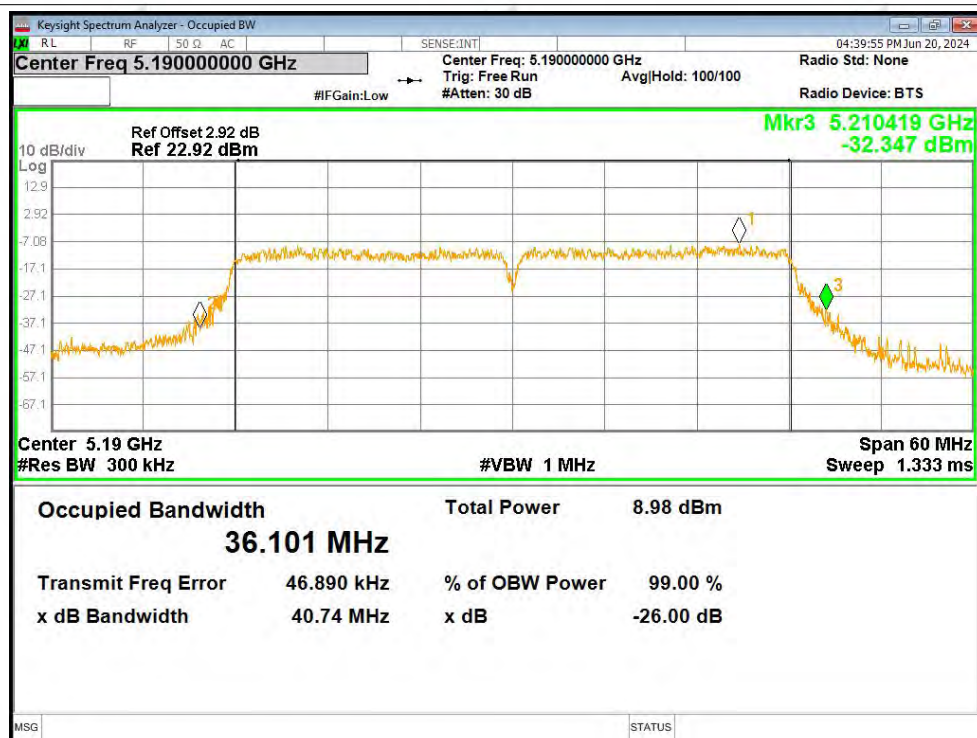
-26dB Bandwidth NVNT n40 5190MHz Ant1



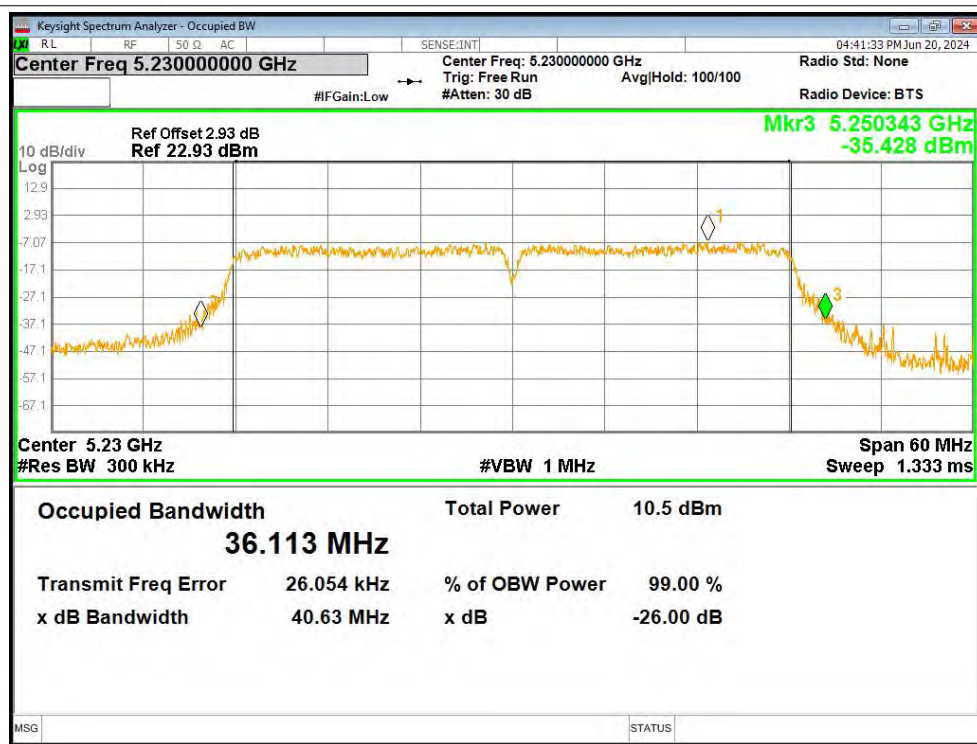
-26dB Bandwidth NVNT n40 5230MHz Ant1

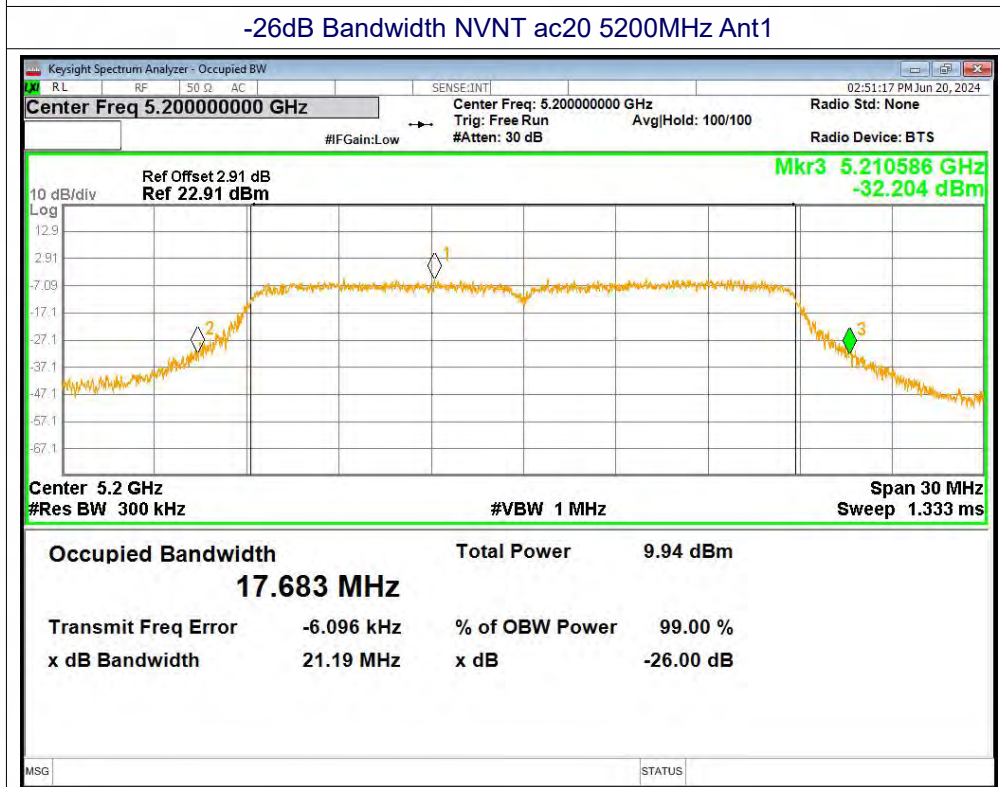
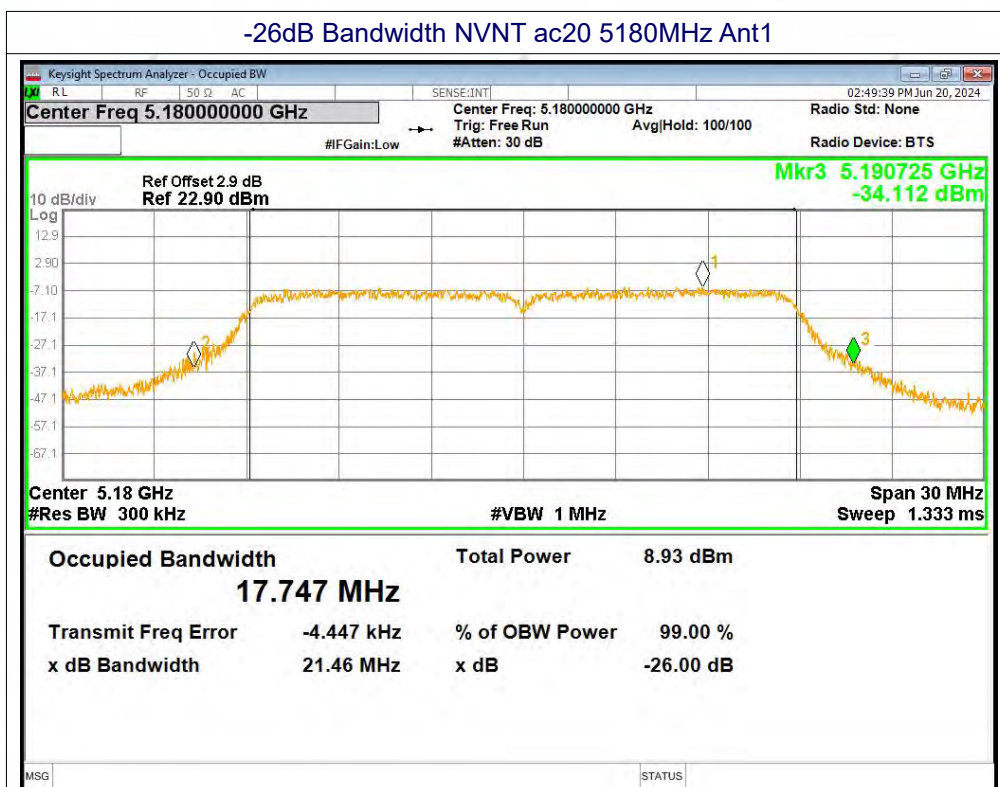


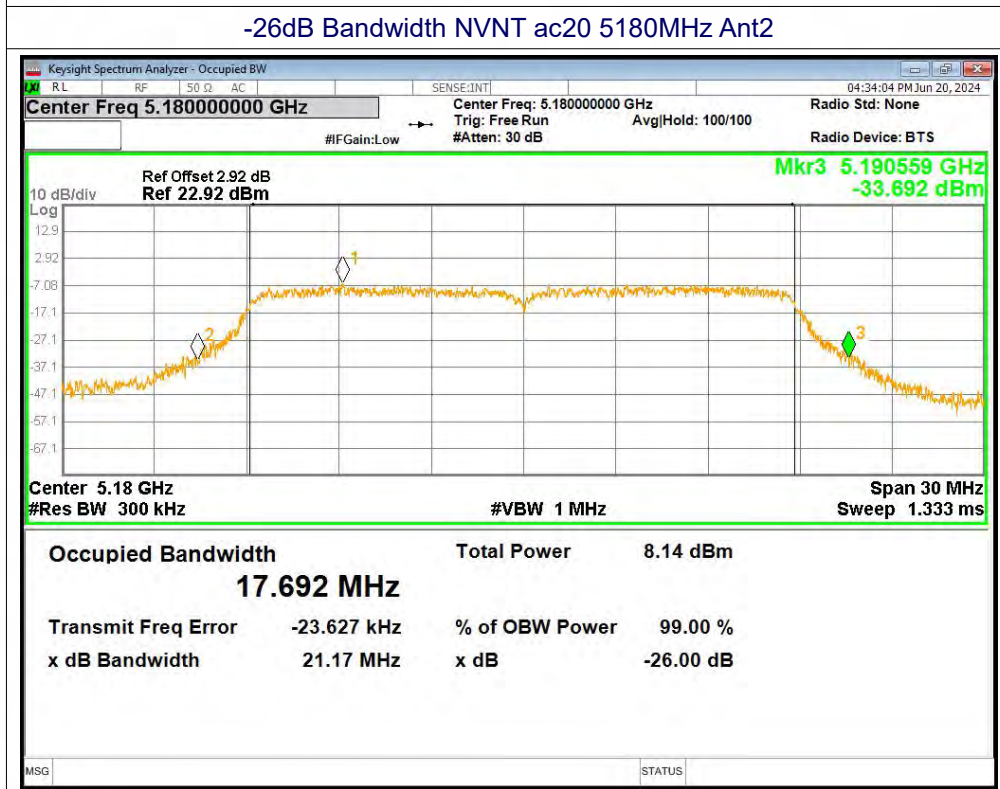
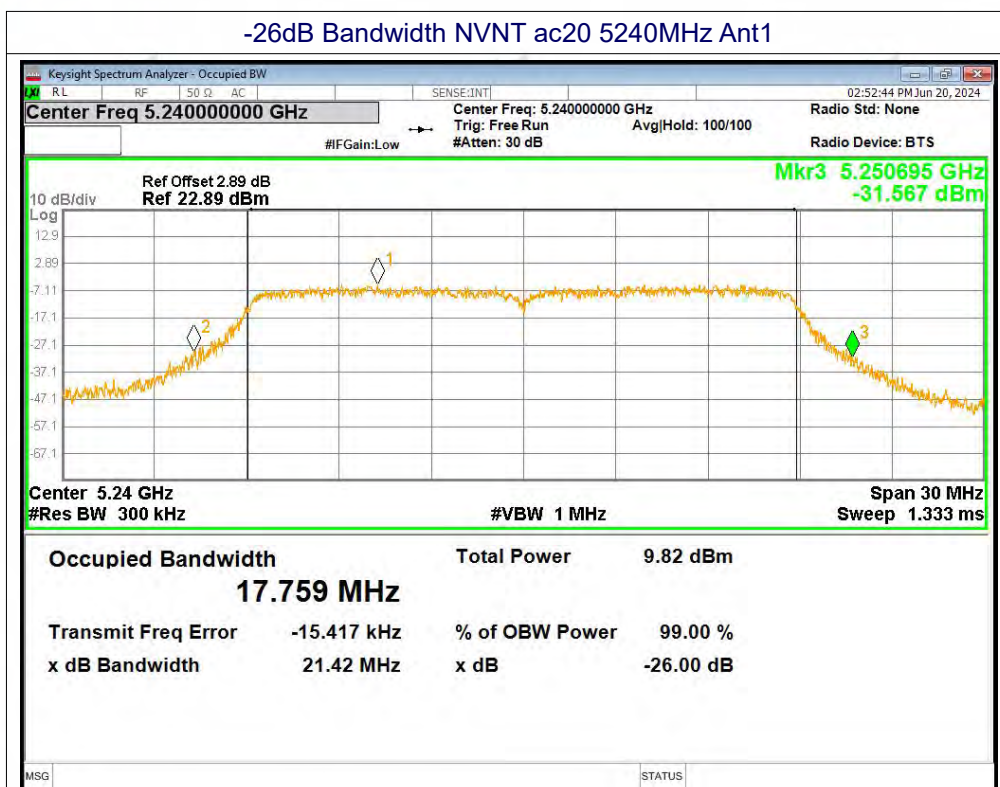
-26dB Bandwidth NVNT n40 5190MHz Ant2



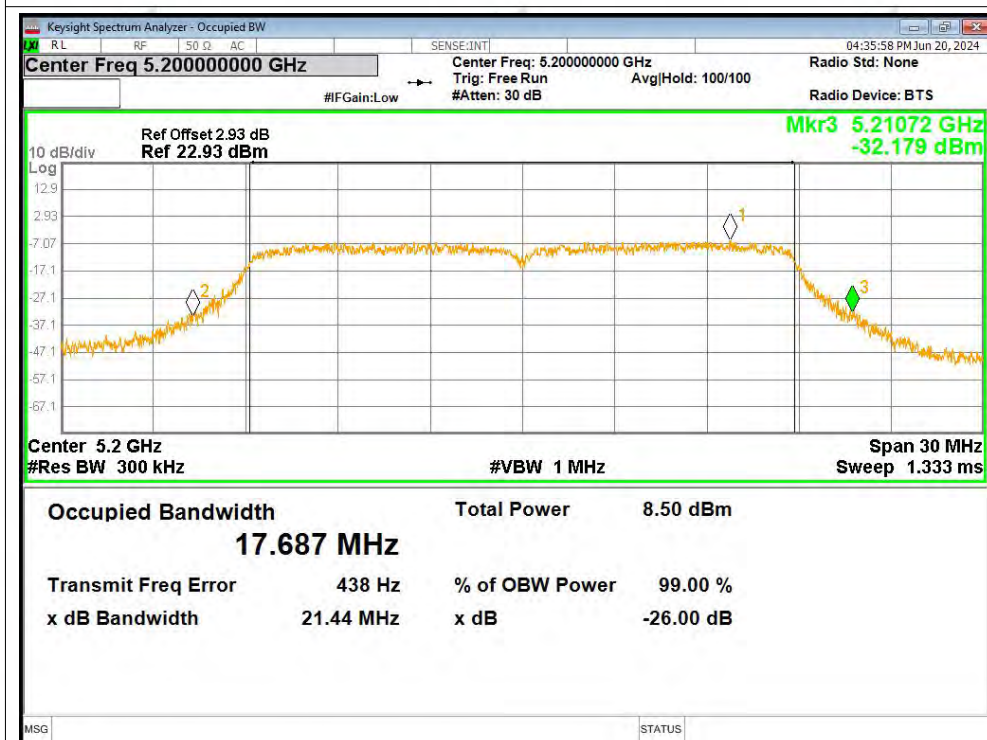
-26dB Bandwidth NVNT n40 5230MHz Ant2



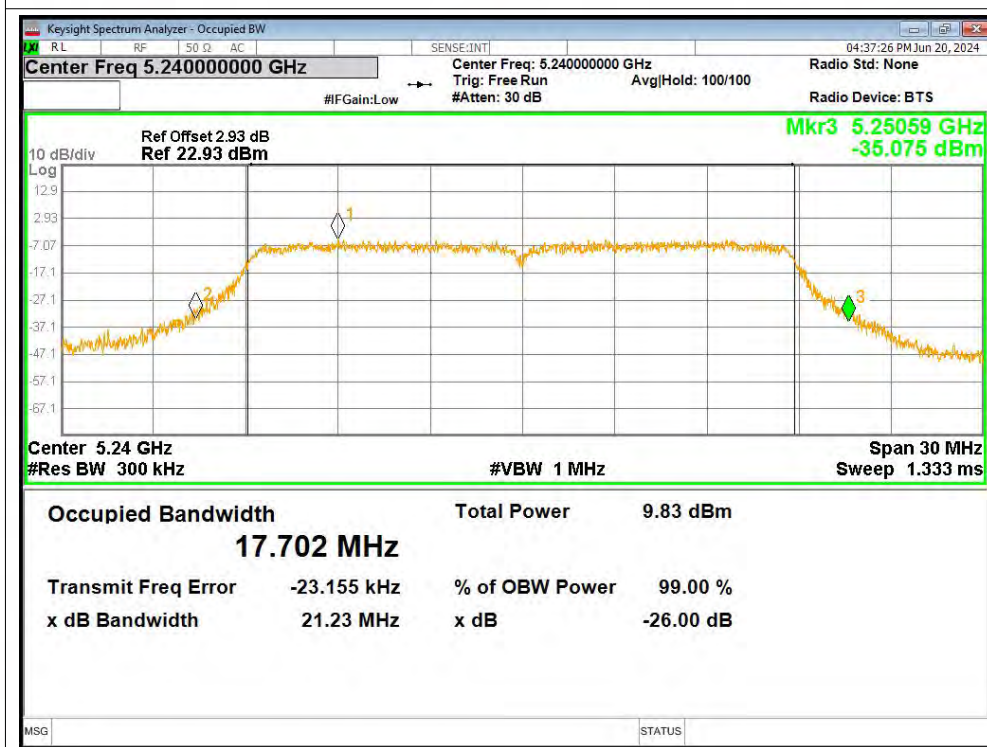




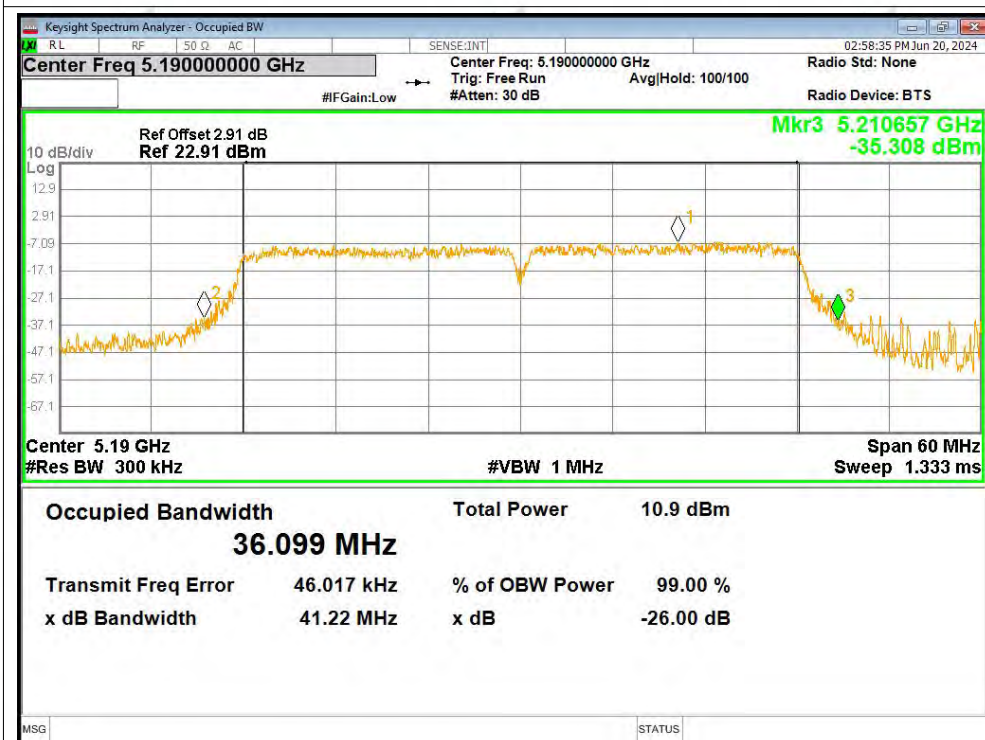
-26dB Bandwidth NVNT ac20 5200MHz Ant2



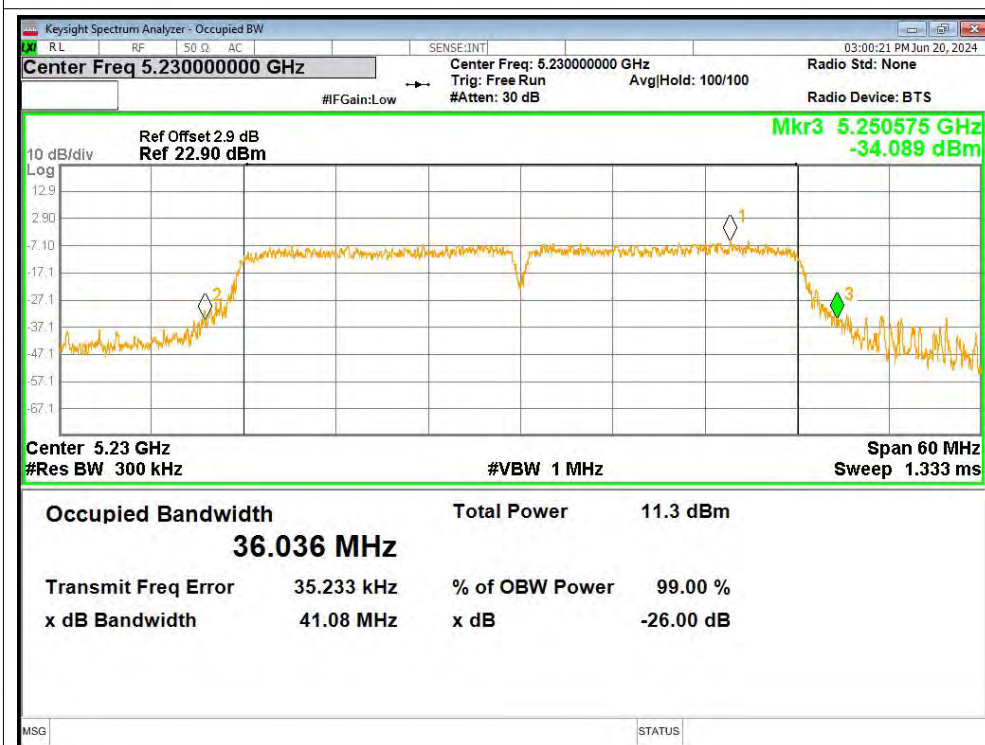
-26dB Bandwidth NVNT ac20 5240MHz Ant2



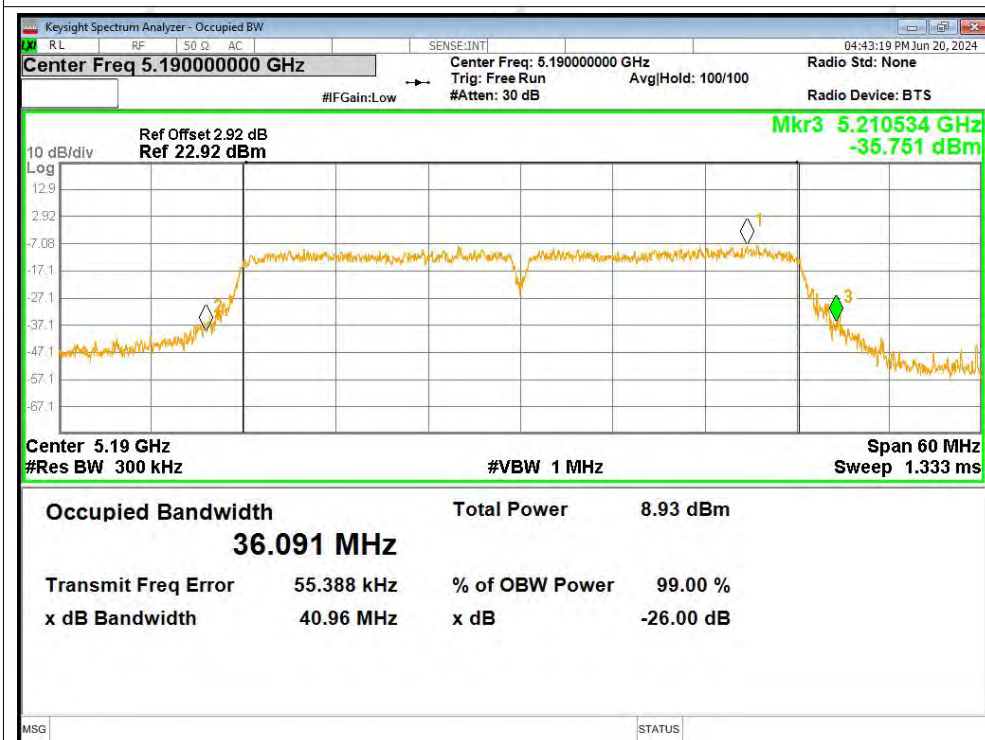
-26dB Bandwidth NVNT ac40 5190MHz Ant1



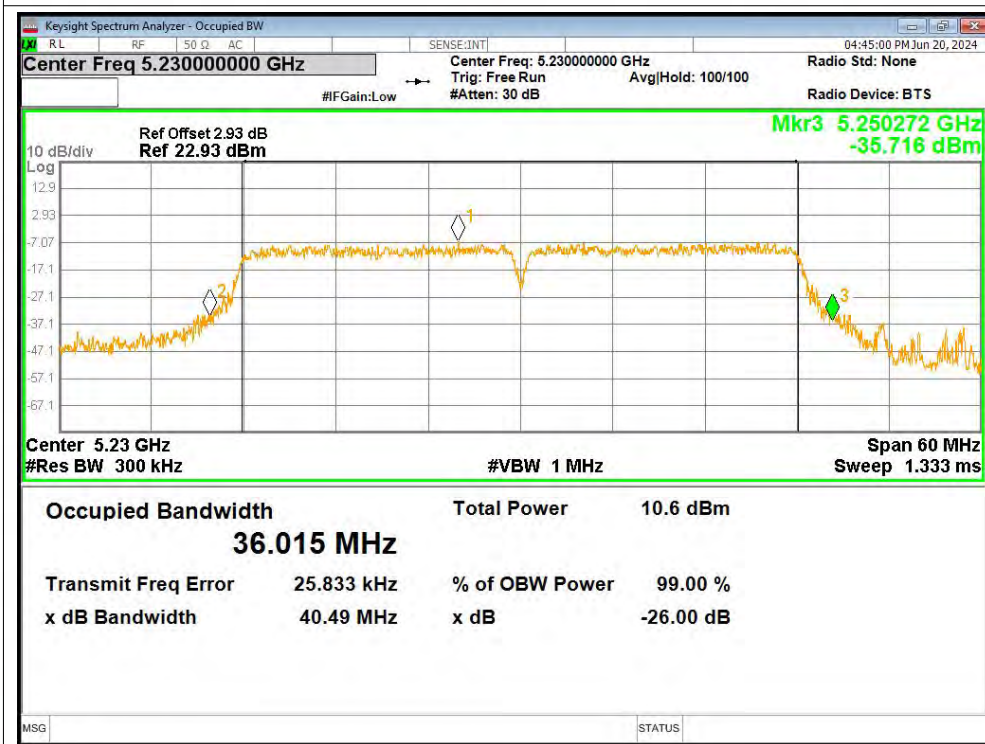
-26dB Bandwidth NVNT ac40 5230MHz Ant1



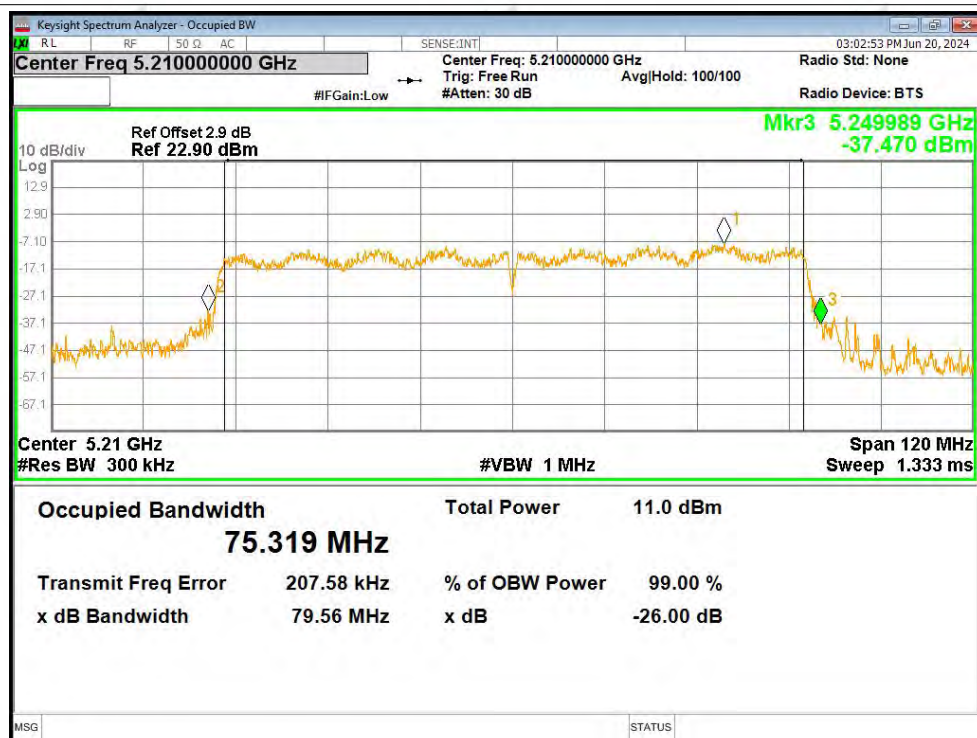
-26dB Bandwidth NVNT ac40 5190MHz Ant2



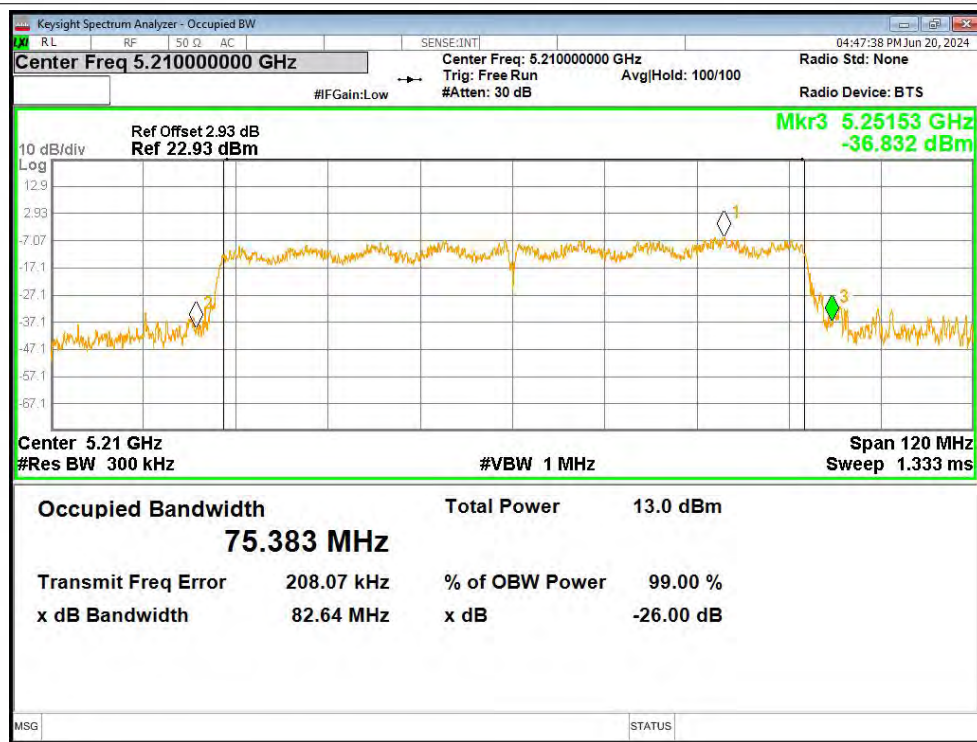
-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant2

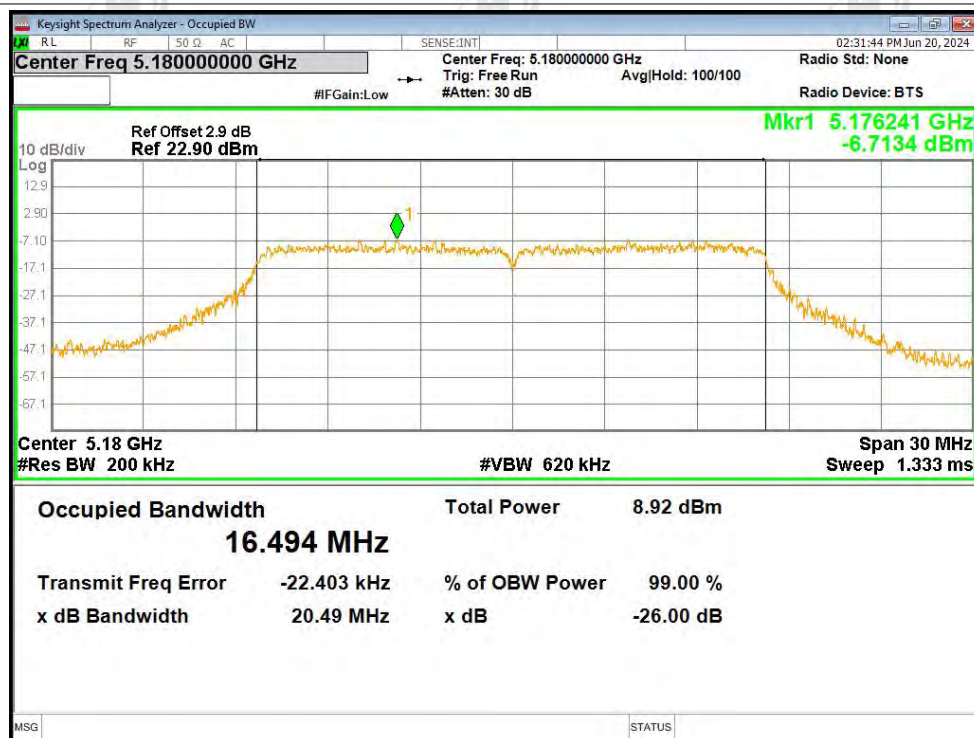


**A4. Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.494
NVNT	a	5200	Ant1	16.517
NVNT	a	5240	Ant1	16.524
NVNT	a	5180	Ant2	16.519
NVNT	a	5200	Ant2	16.494
NVNT	a	5240	Ant2	16.506
NVNT	n20	5180	Ant1	17.636
NVNT	n20	5200	Ant1	17.623
NVNT	n20	5240	Ant1	17.609
NVNT	n20	5180	Ant2	17.614
NVNT	n20	5200	Ant2	17.63
NVNT	n20	5240	Ant2	17.595
NVNT	n40	5190	Ant1	36.188
NVNT	n40	5230	Ant1	36.128
NVNT	n40	5190	Ant2	36.143
NVNT	n40	5230	Ant2	36.125
NVNT	ac20	5180	Ant1	17.62
NVNT	ac20	5200	Ant1	17.61
NVNT	ac20	5240	Ant1	17.608
NVNT	ac20	5180	Ant2	17.624
NVNT	ac20	5200	Ant2	17.628
NVNT	ac20	5240	Ant2	17.622
NVNT	ac40	5190	Ant1	36.153
NVNT	ac40	5230	Ant1	36.078
NVNT	ac40	5190	Ant2	36.105
NVNT	ac40	5230	Ant2	36.159
NVNT	ac80	5210	Ant1	75.36
NVNT	ac80	5210	Ant2	75.463

Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1

