Appendix A for 5GWIFI Test Data

Product Name: LAPTOP

Test Model: BL15CA1

Environmental Conditions

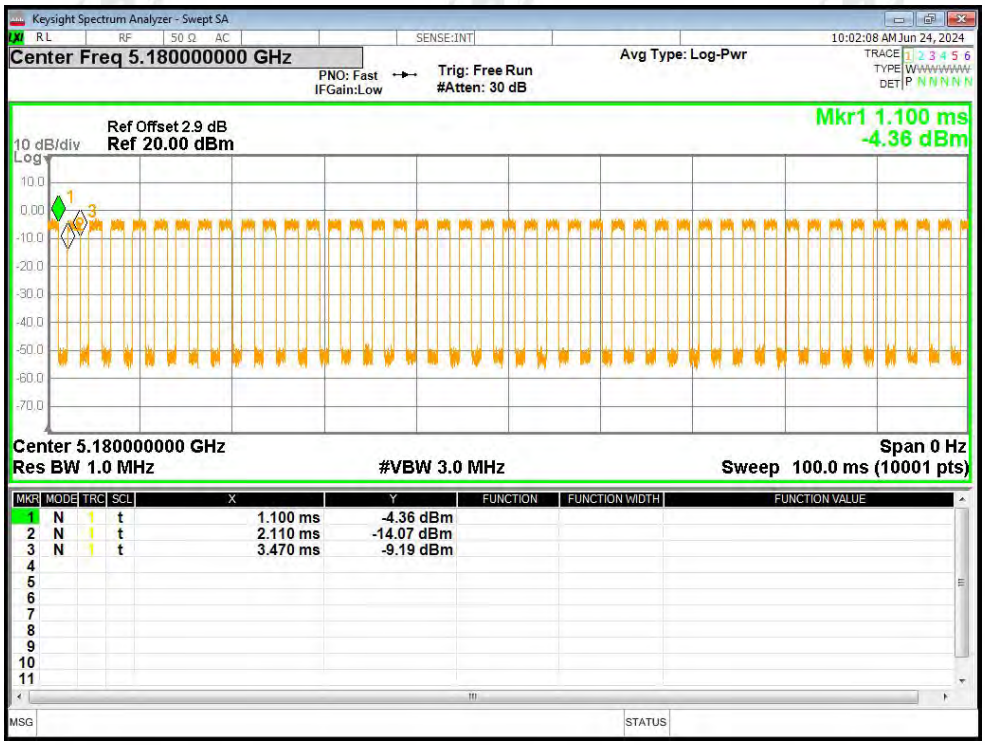
Temperature:	23.8℃
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

A1. Duty Cycle

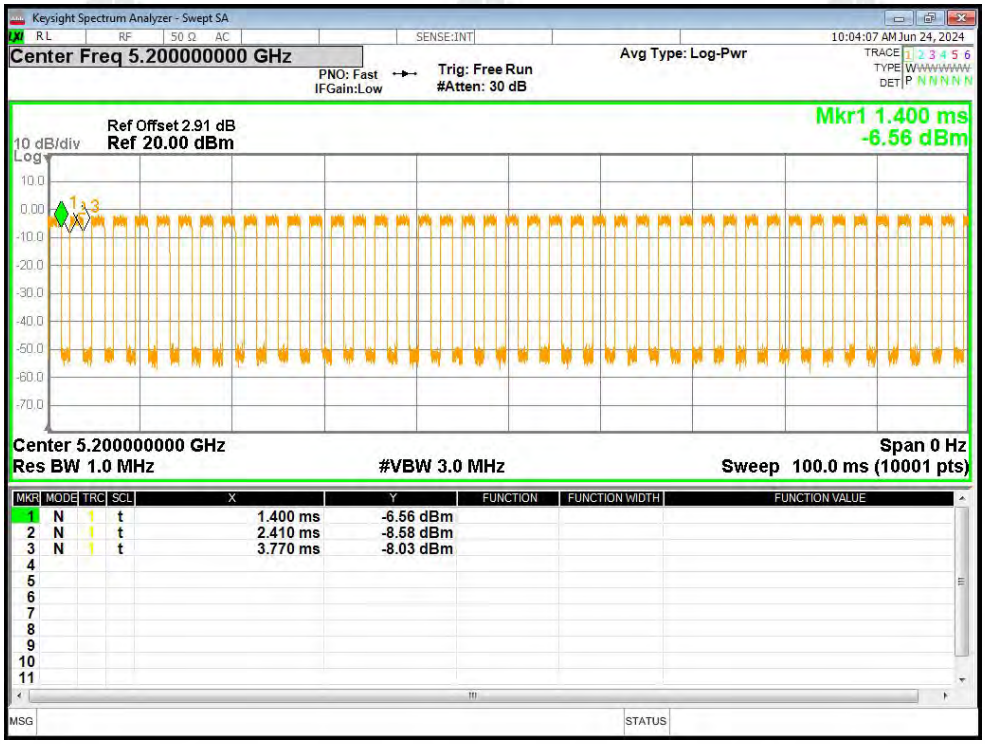
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	57.38	2.41	0.74
NVNT	a	5200	Ant1	57.38	2.41	0.74
NVNT	a	5240	Ant1	57.63	2.39	0.74
NVNT	a	5180	Ant2	57.63	2.39	0.74
NVNT	a	5200	Ant2	57.63	2.39	0.74
NVNT	a	5240	Ant2	57.38	2.41	0.74
NVNT	n20	5180	Ant1	56.14	2.51	0.78
NVNT	n20	5200	Ant1	55.7	2.54	0.79
NVNT	n20	5240	Ant1	55.95	2.52	0.79
NVNT	n20	5180	Ant2	55.7	2.54	0.79
NVNT	n20	5200	Ant2	55.95	2.52	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	38.65	4.13	1.59
NVNT	n40	5230	Ant2	38.41	4.16	1.59
NVNT	ac20	5180	Ant1	55.7	2.54	0.79
NVNT	ac20	5200	Ant1	55.7	2.54	0.79
NVNT	ac20	5240	Ant1	56.14	2.51	0.78
NVNT	ac20	5180	Ant2	56.14	2.51	0.78
NVNT	ac20	5200	Ant2	55.9	2.53	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	39.02	4.09	1.56
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

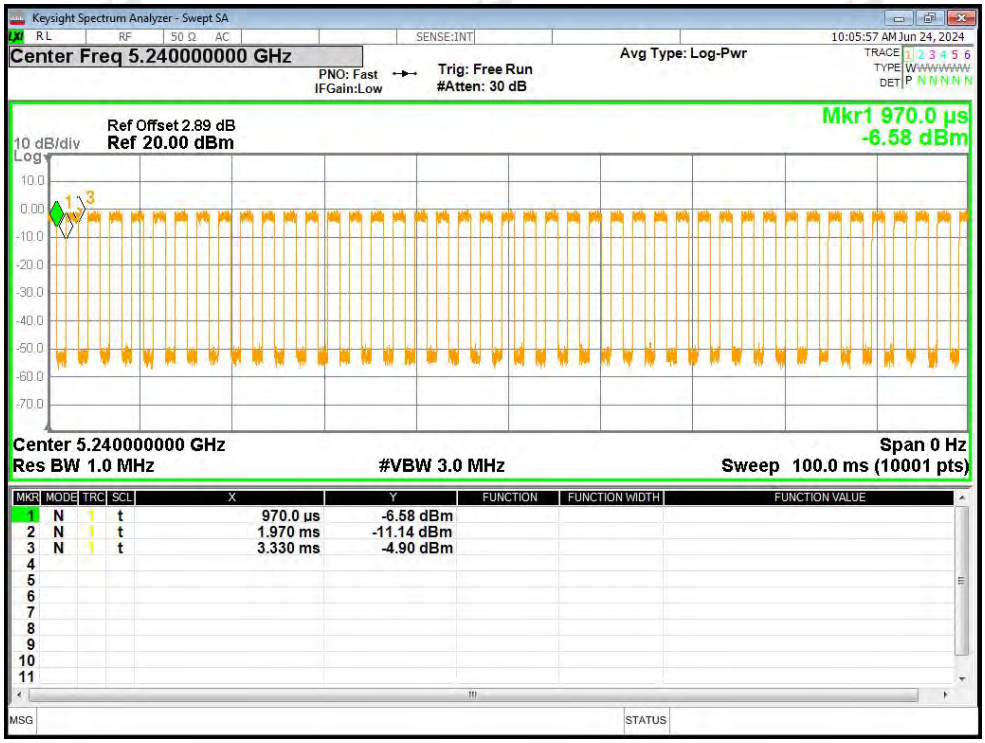
Duty Cycle NVNT a 5180MHz Ant1



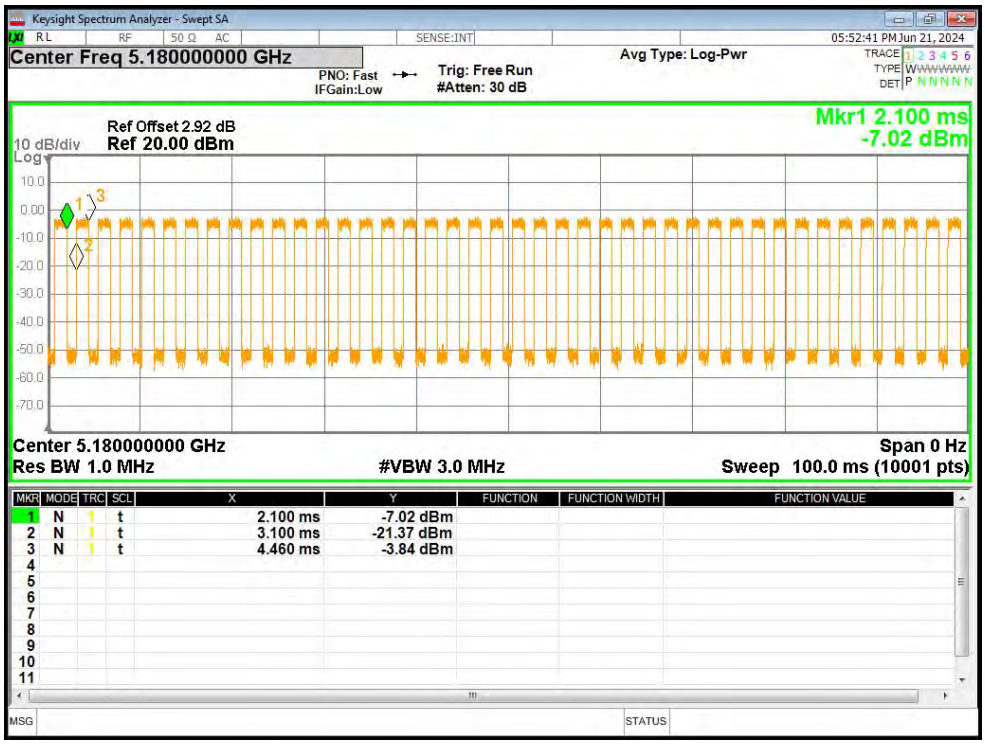
Duty Cycle NVNT a 5200MHz Ant1



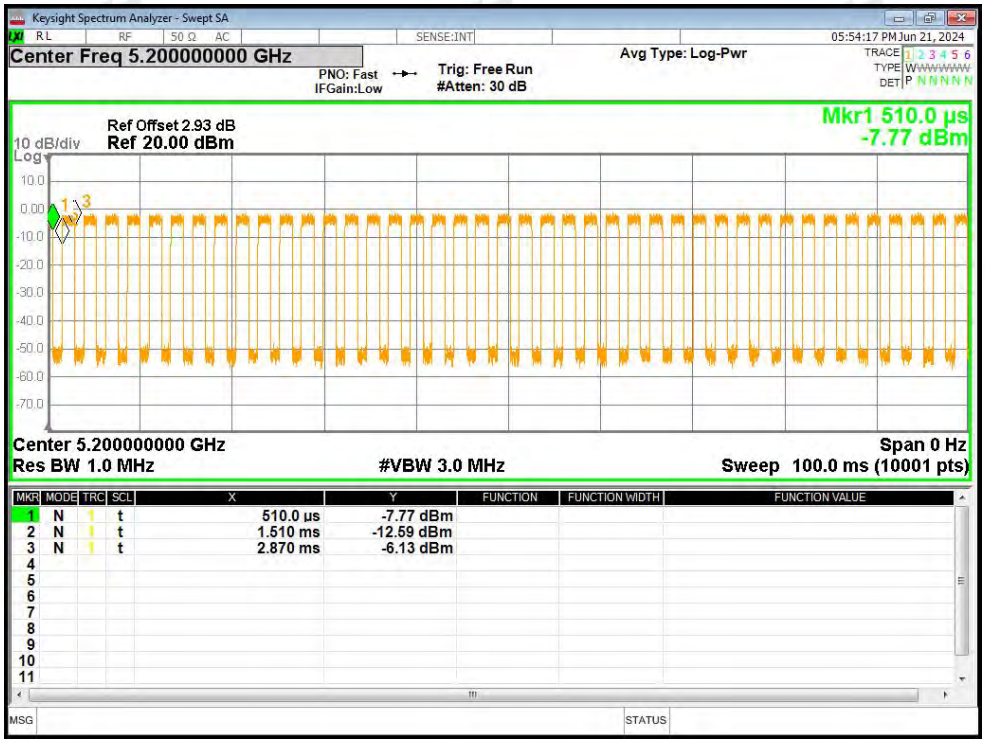
Duty Cycle NVNT a 5240MHz Ant1



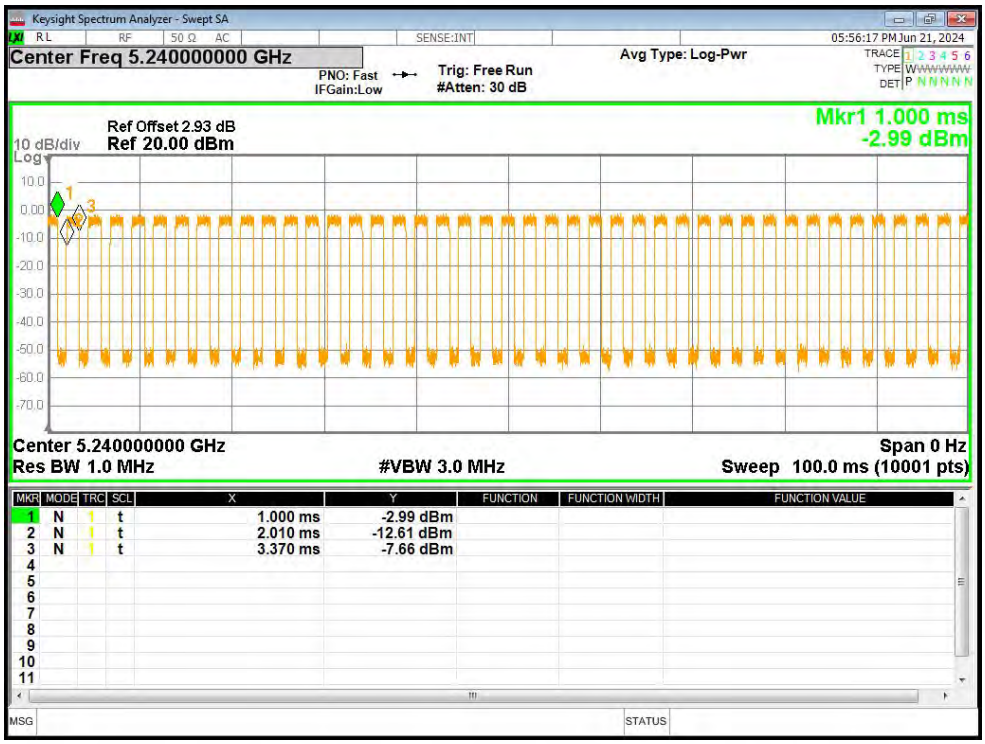
Duty Cycle NVNT a 5180MHz Ant2



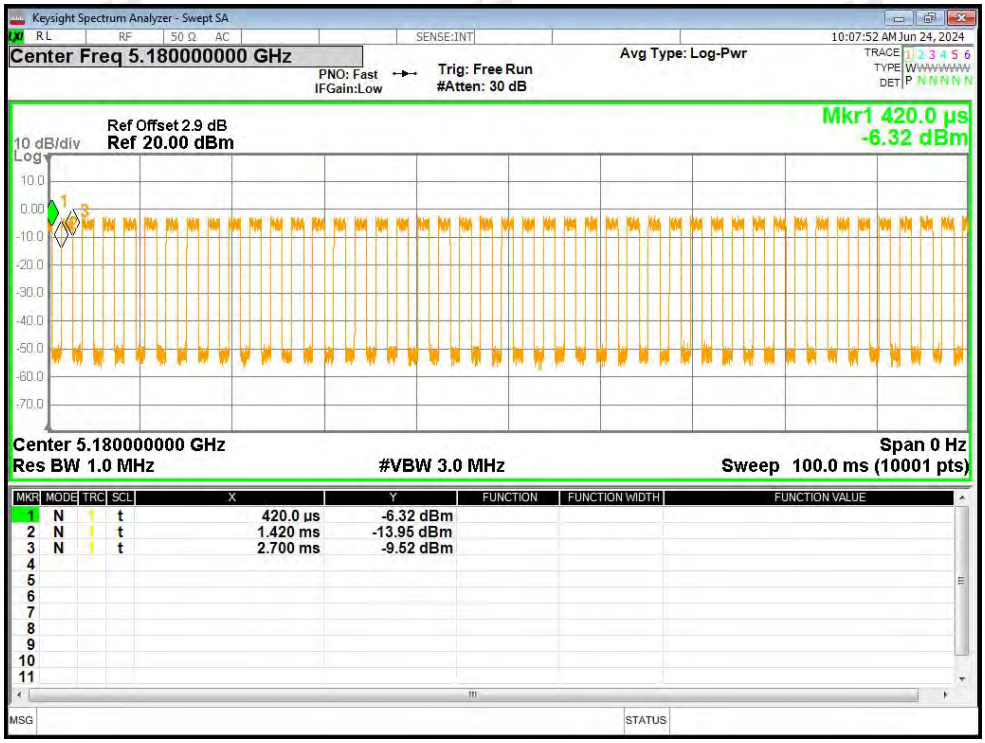
Duty Cycle NVNT a 5200MHz Ant2



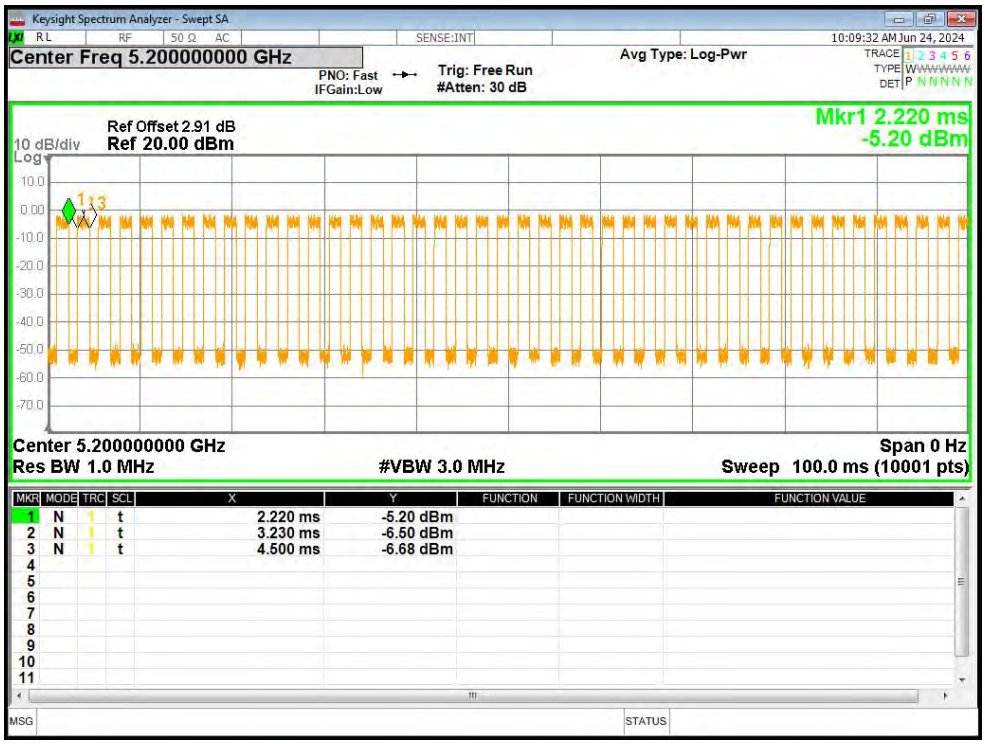
Duty Cycle NVNT a 5240MHz Ant2



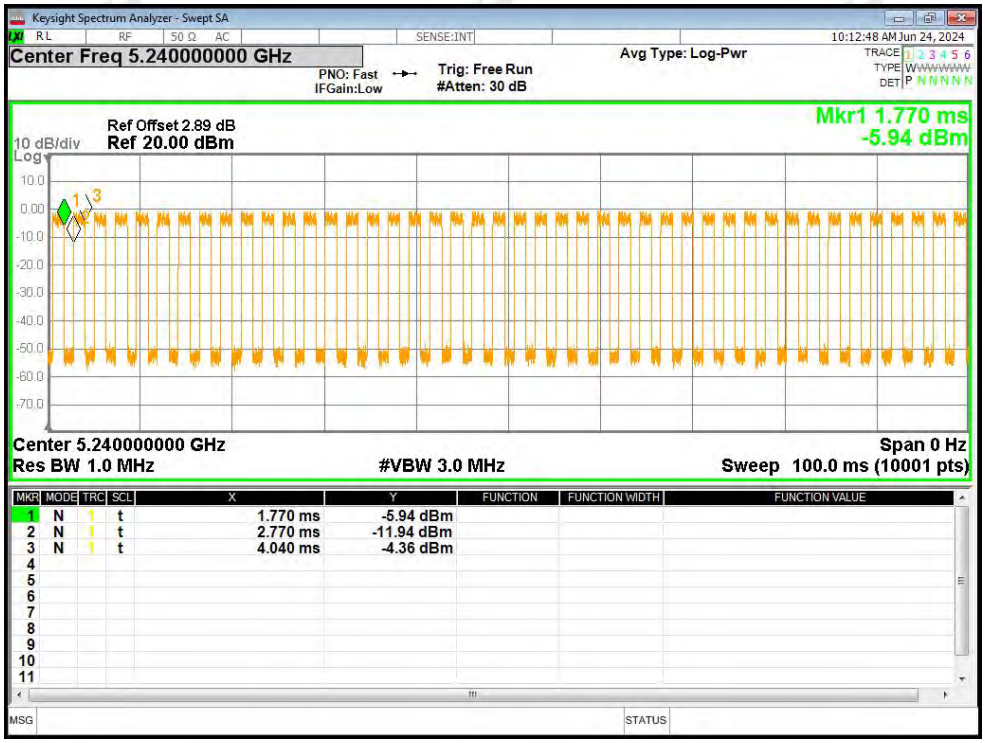
Duty Cycle NVNT n20 5180MHz Ant1



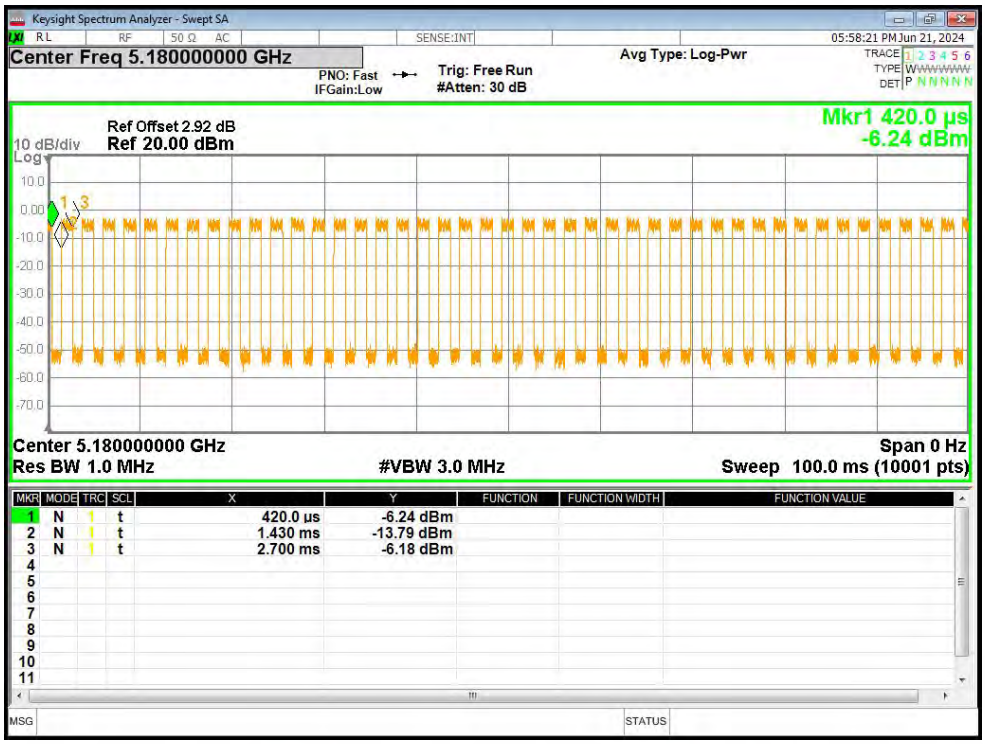
Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1

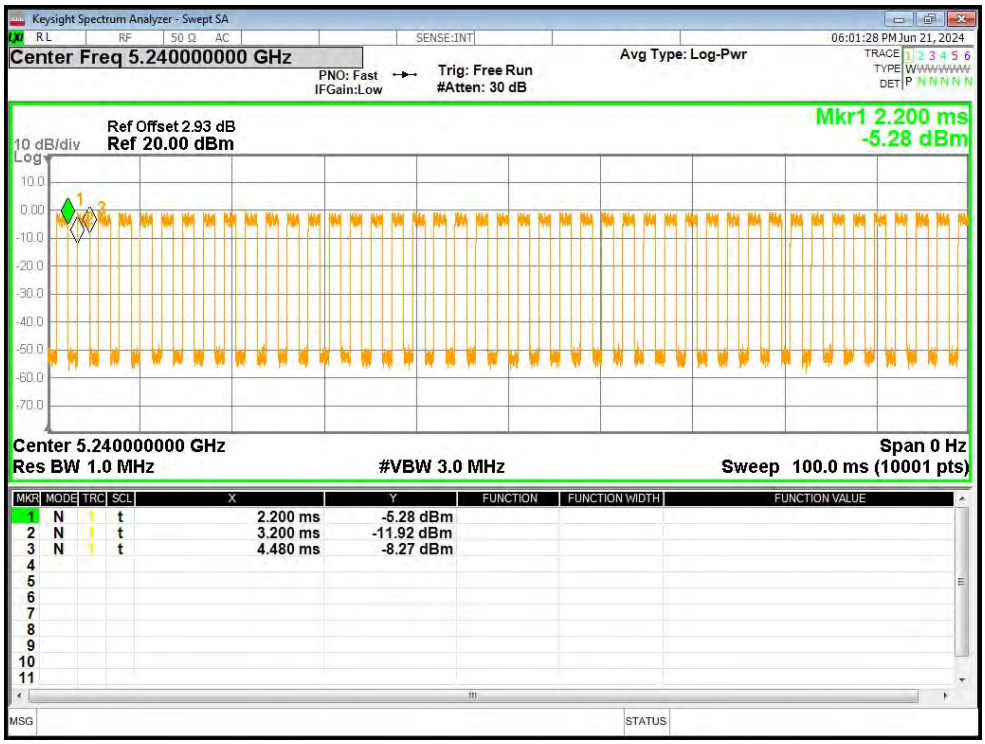


Duty Cycle NVNT n20 5180MHz Ant2



Duty Cycle NVNT n20 5200MHz Ant2

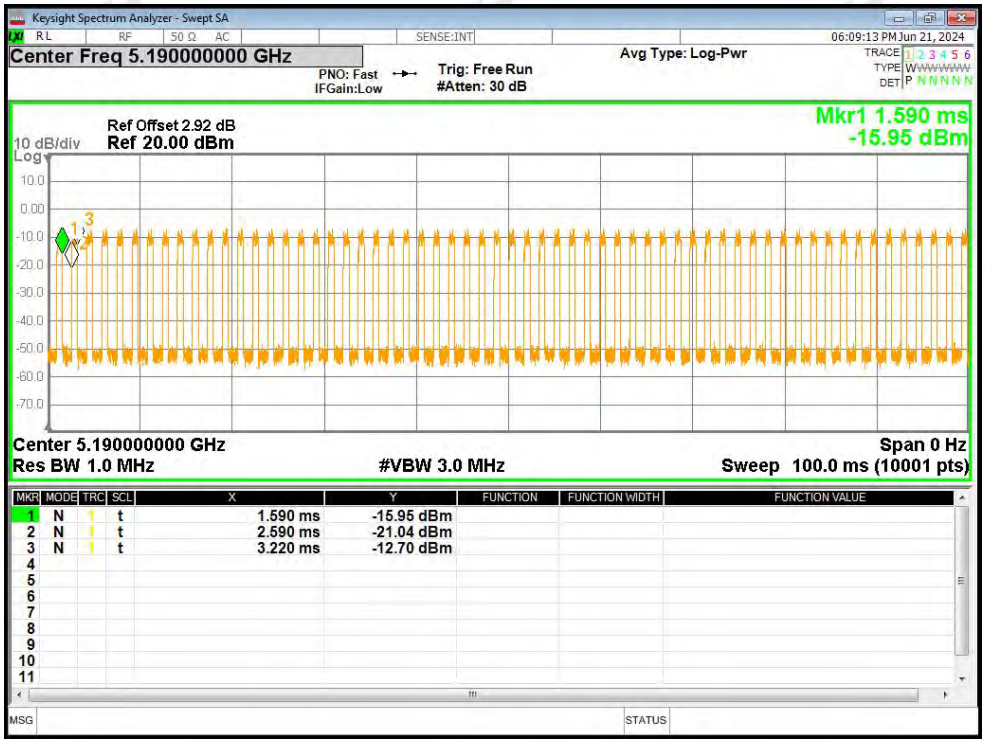
Duty Cycle NVNT n20 5240MHz Ant2



Duty Cycle NVNT n40 5190MHz Ant1

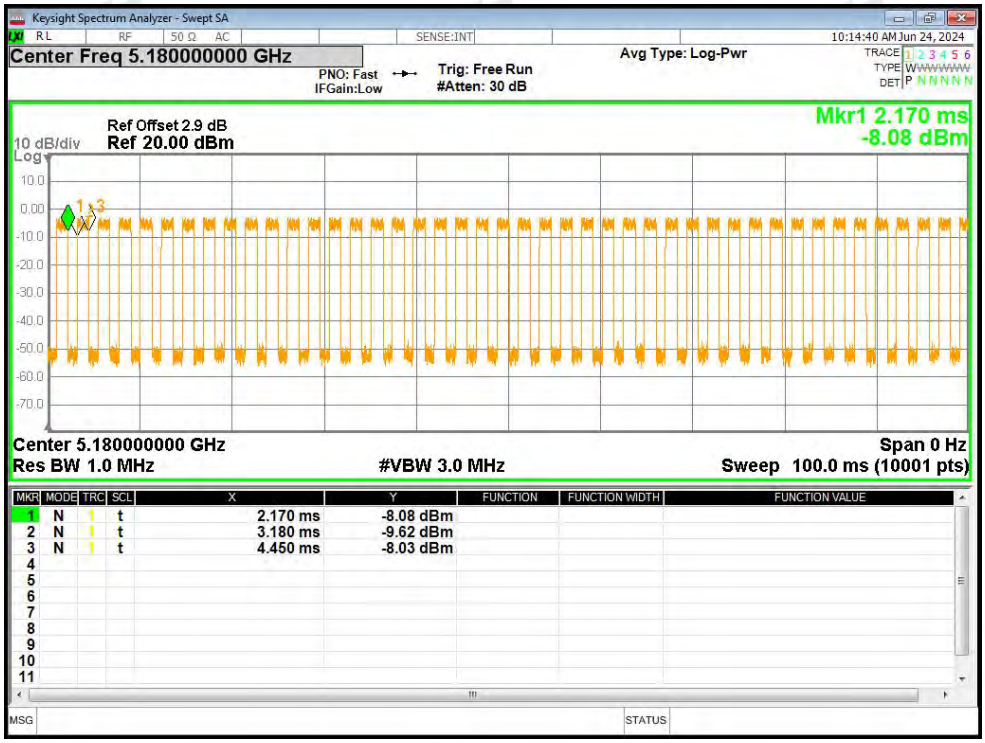
Duty Cycle NVNT n40 5230MHz Ant1

Duty Cycle NVNT n40 5190MHz Ant2

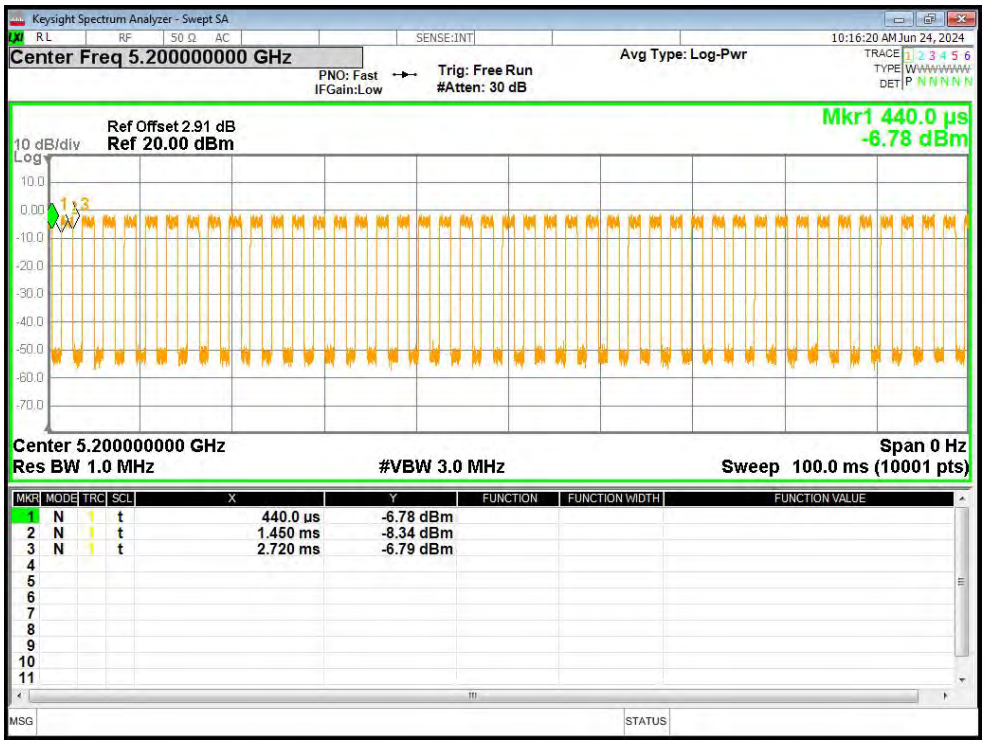


Duty Cycle NVNT n40 5230MHz Ant2

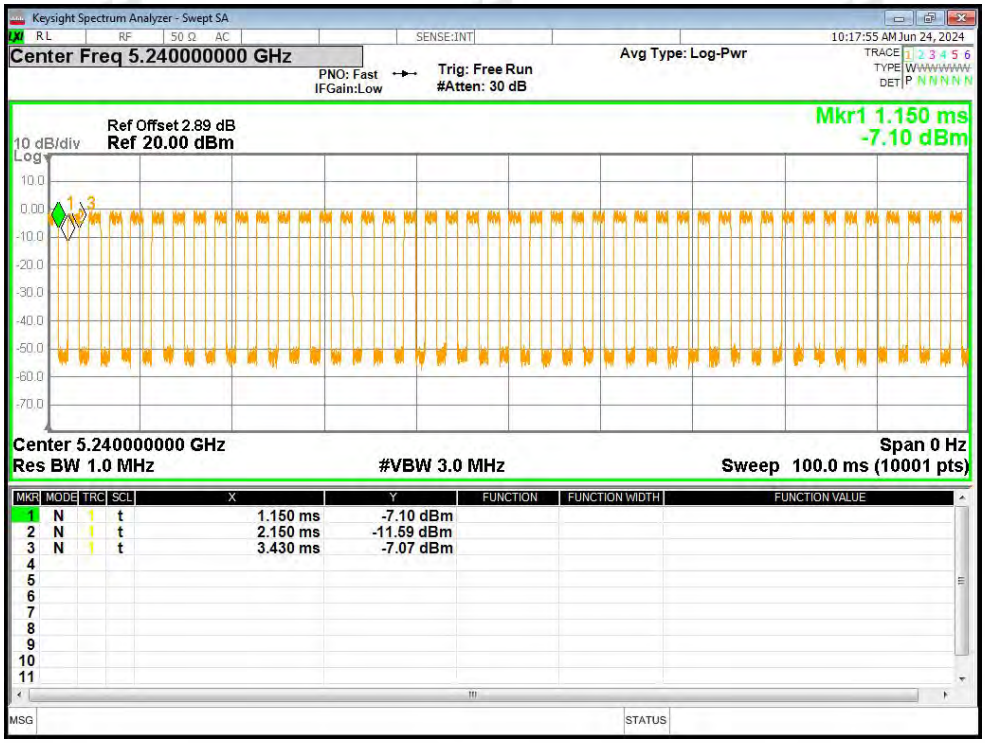
Duty Cycle NVNT ac20 5180MHz Ant1



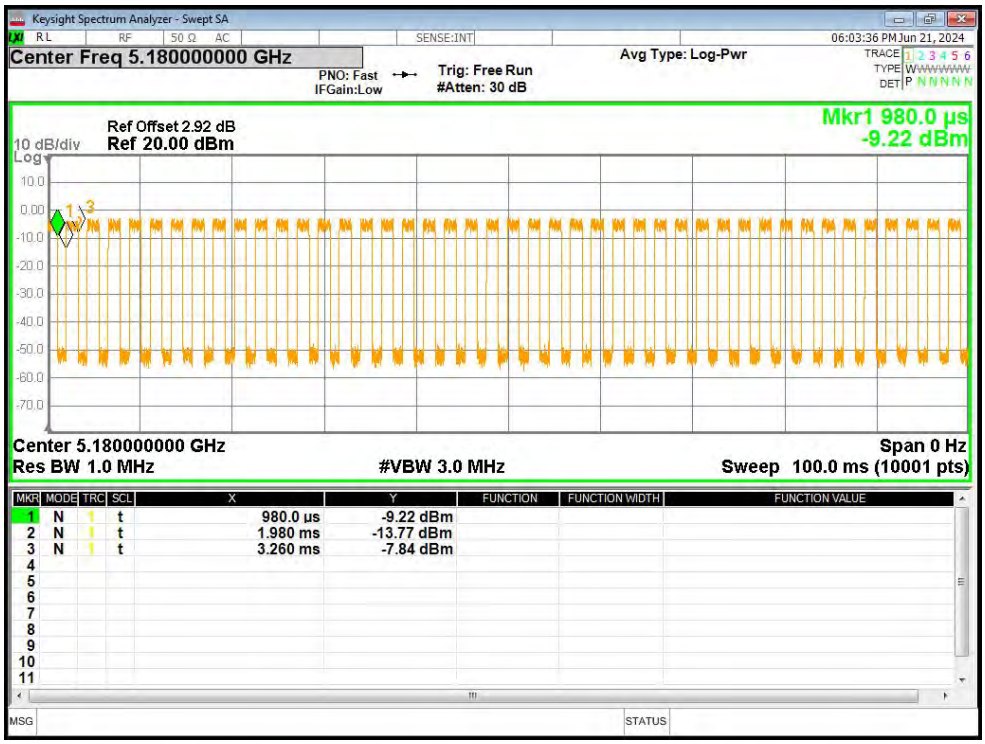
Duty Cycle NVNT ac20 5200MHz Ant1



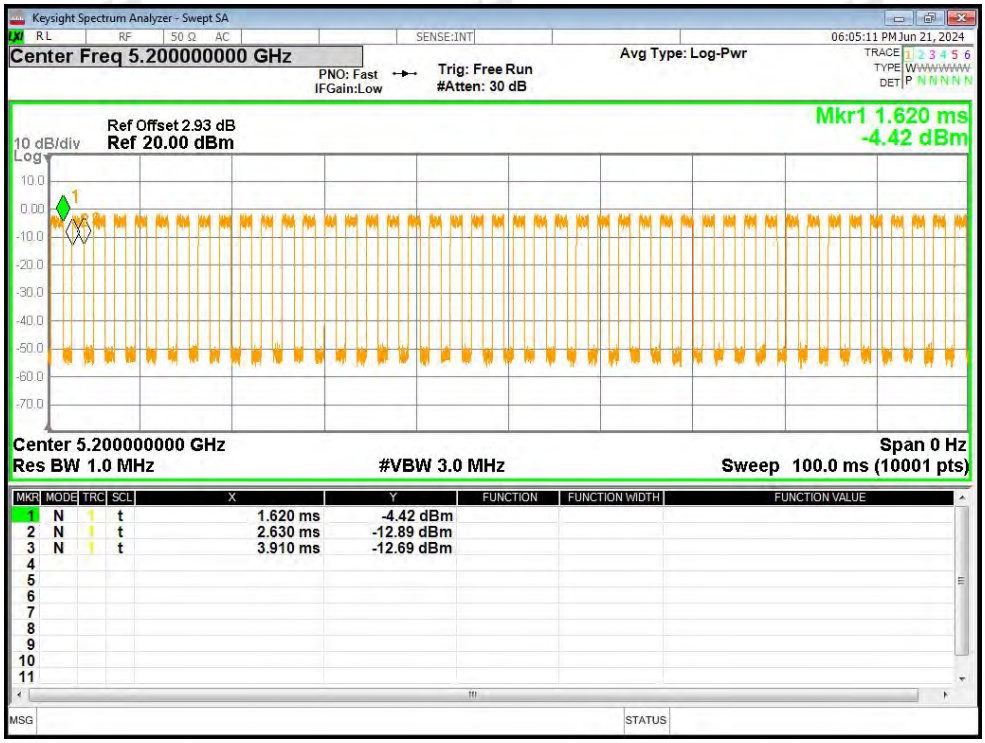
Duty Cycle NVNT ac20 5240MHz Ant1



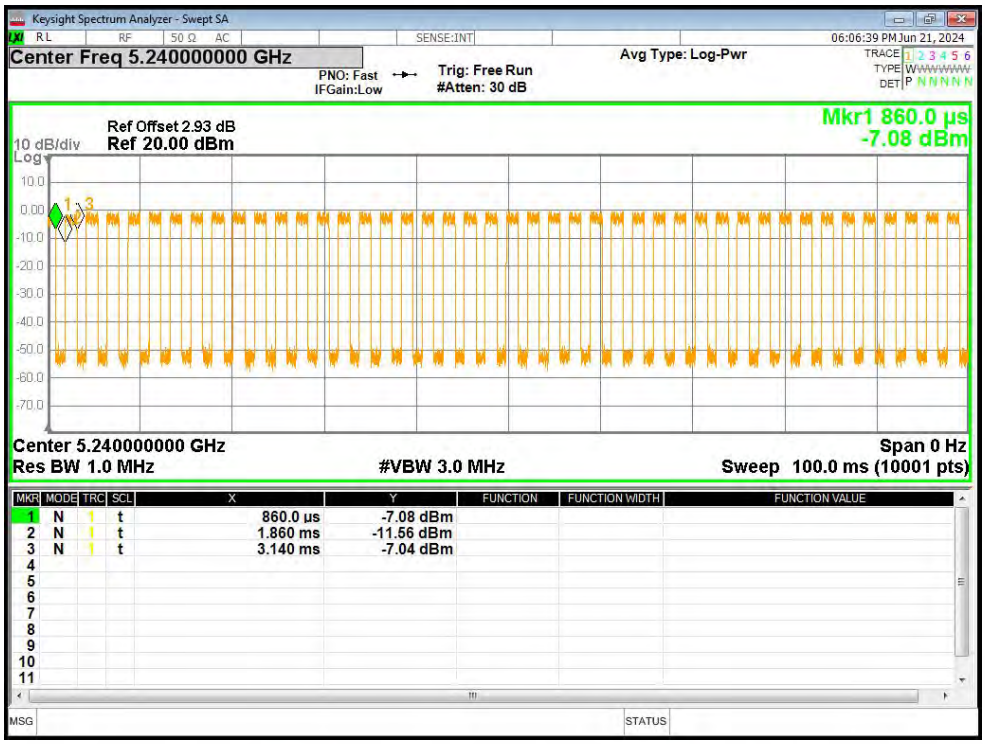
Duty Cycle NVNT ac20 5180MHz Ant2



Duty Cycle NVNT ac20 5200MHz Ant2



Duty Cycle NVNT ac20 5240MHz Ant2



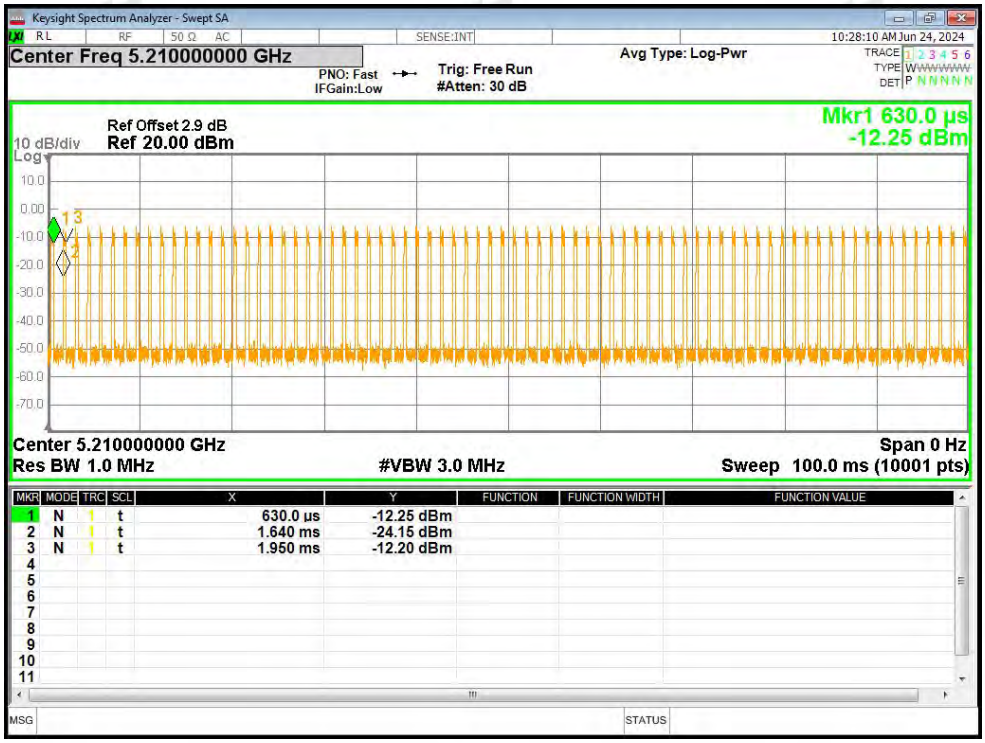
Duty Cycle NVNT ac40 5190MHz Ant1

Duty Cycle NVNT ac40 5230MHz Ant1

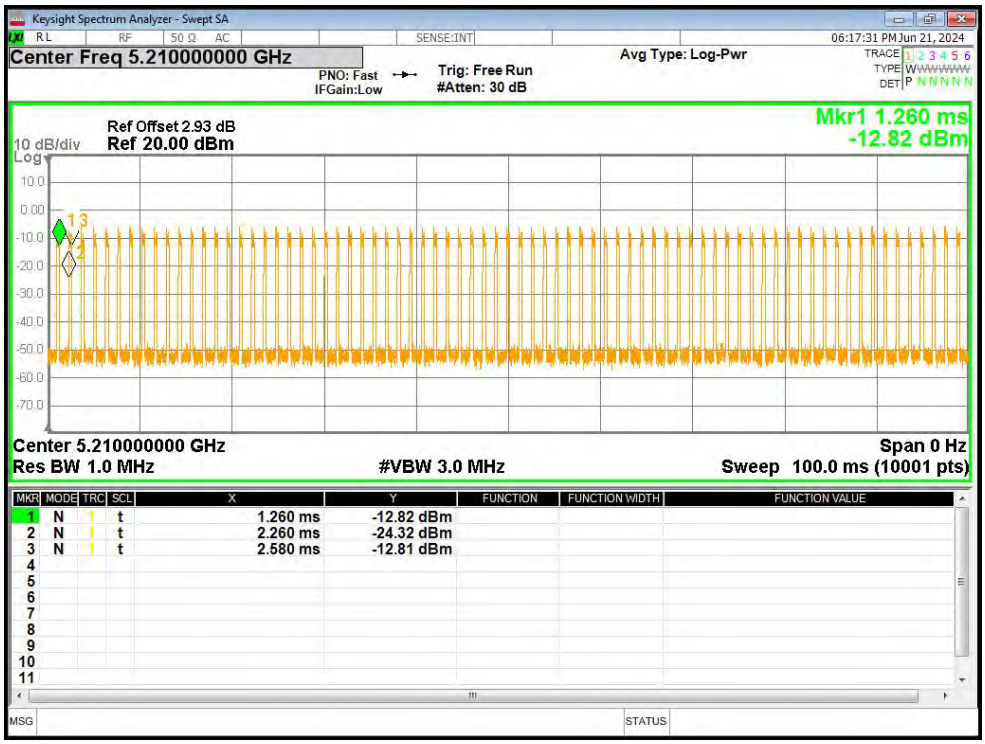
Duty Cycle NVNT ac40 5190MHz Ant2

Duty Cycle NVNT ac40 5230MHz Ant2

Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant2

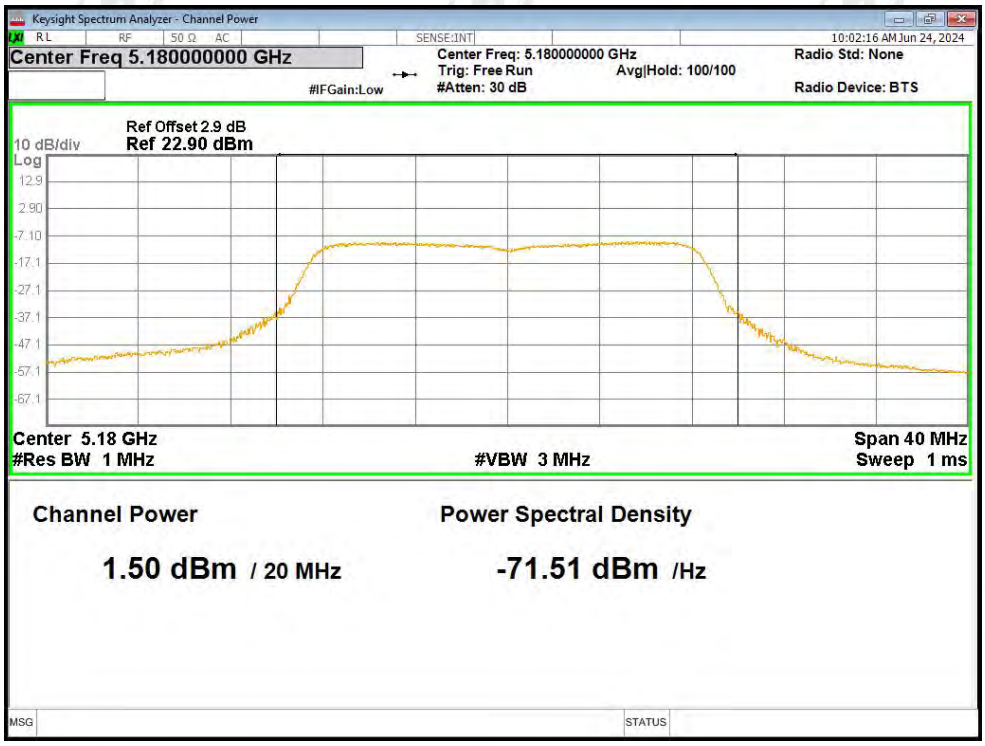


A2. Maximum Conducted Output Power

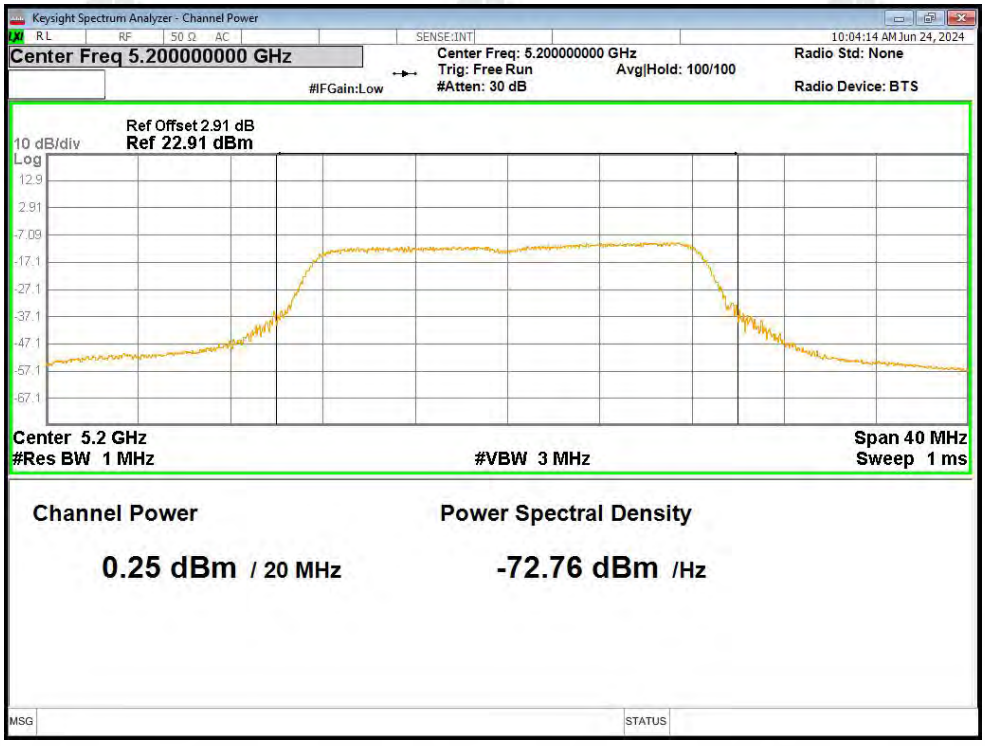
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.5	2.41	3.91	24	Pass
NVNT	a	5200	Ant1	0.25	2.41	2.66	24	Pass
NVNT	a	5240	Ant1	1.22	2.39	3.61	24	Pass
NVNT	a	5180	Ant2	0.73	2.39	3.12	24	Pass
NVNT	a	5200	Ant2	1.93	2.39	4.32	24	Pass
NVNT	a	5240	Ant2	1.12	2.41	3.53	24	Pass
NVNT	n20	5180	Ant1	0.69	2.51	3.2	24	Pass
NVNT	n20	5200	Ant1	1.45	2.54	3.99	24	Pass
NVNT	n20	5240	Ant1	2.22	2.52	4.74	24	Pass
NVNT	n20	5180	Ant2	0.38	2.54	2.92	24	Pass
NVNT	n20	5200	Ant2	1.6	2.52	4.12	24	Pass
NVNT	n20	5240	Ant2	2.31	2.51	4.82	24	Pass
NVNT	n40	5190	Ant1	0.27	4.09	4.36	24	Pass
NVNT	n40	5230	Ant1	1.53	4.16	5.69	24	Pass
NVNT	n40	5190	Ant2	-0.3	4.13	3.83	24	Pass
NVNT	n40	5230	Ant2	1.66	4.16	5.82	24	Pass
NVNT	ac20	5180	Ant1	0.31	2.54	2.85	24	Pass
NVNT	ac20	5200	Ant1	1.35	2.54	3.89	24	Pass
NVNT	ac20	5240	Ant1	2.64	2.51	5.15	24	Pass
NVNT	ac20	5180	Ant2	0.54	2.51	3.05	24	Pass
NVNT	ac20	5200	Ant2	1.65	2.53	4.18	24	Pass
NVNT	ac20	5240	Ant2	2.73	2.51	5.24	24	Pass
NVNT	ac40	5190	Ant1	-0.06	4.09	4.03	24	Pass
NVNT	ac40	5230	Ant1	1.48	4.09	5.57	24	Pass
NVNT	ac40	5190	Ant2	-0.35	4.09	3.74	24	Pass
NVNT	ac40	5230	Ant2	1.69	4.09	5.78	24	Pass
NVNT	ac80	5210	Ant1	0.26	6.29	6.55	24	Pass
NVNT	ac80	5210	Ant2	0.16	6.15	6.31	24	Pass

Test Graphs

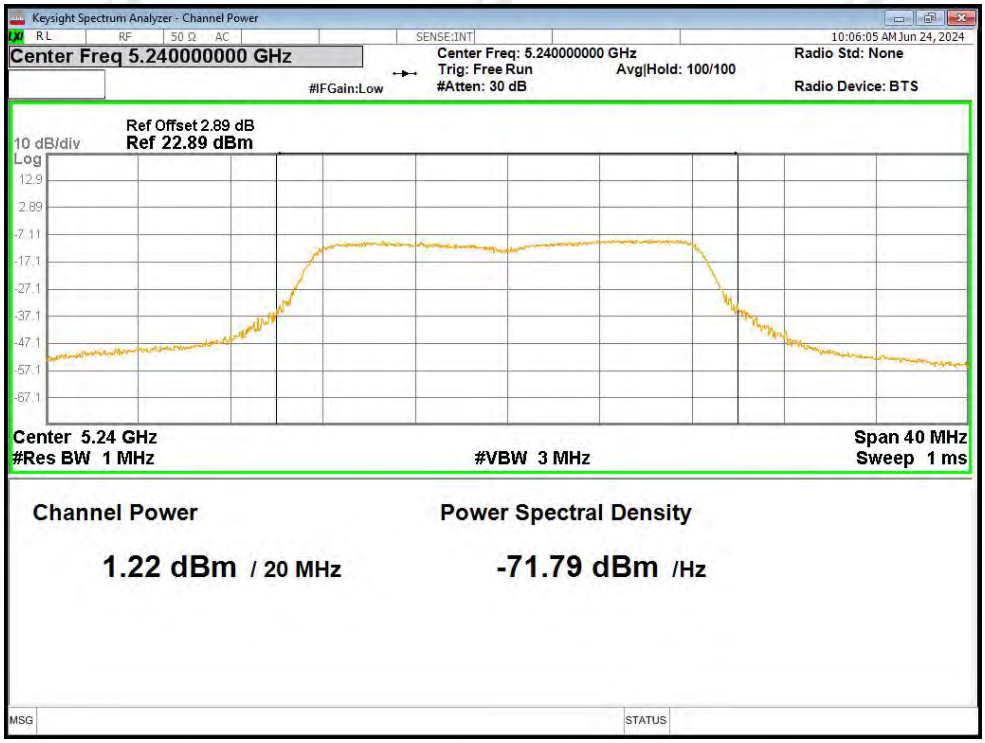
Power NVNT a 5180MHz Ant1



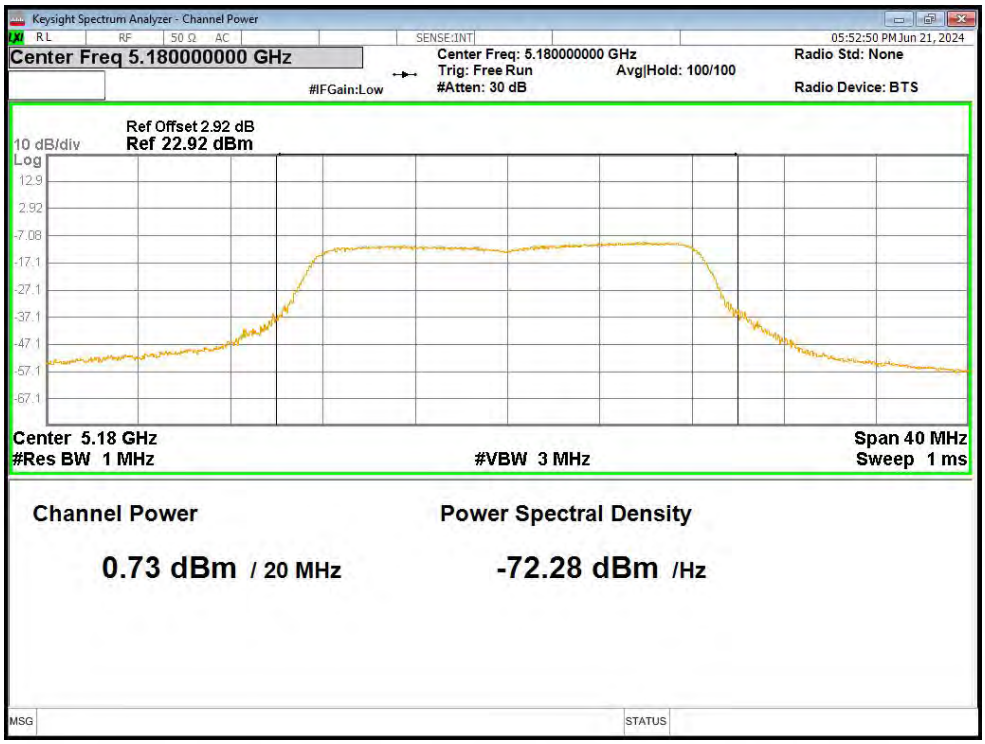
Power NVNT a 5200MHz Ant1



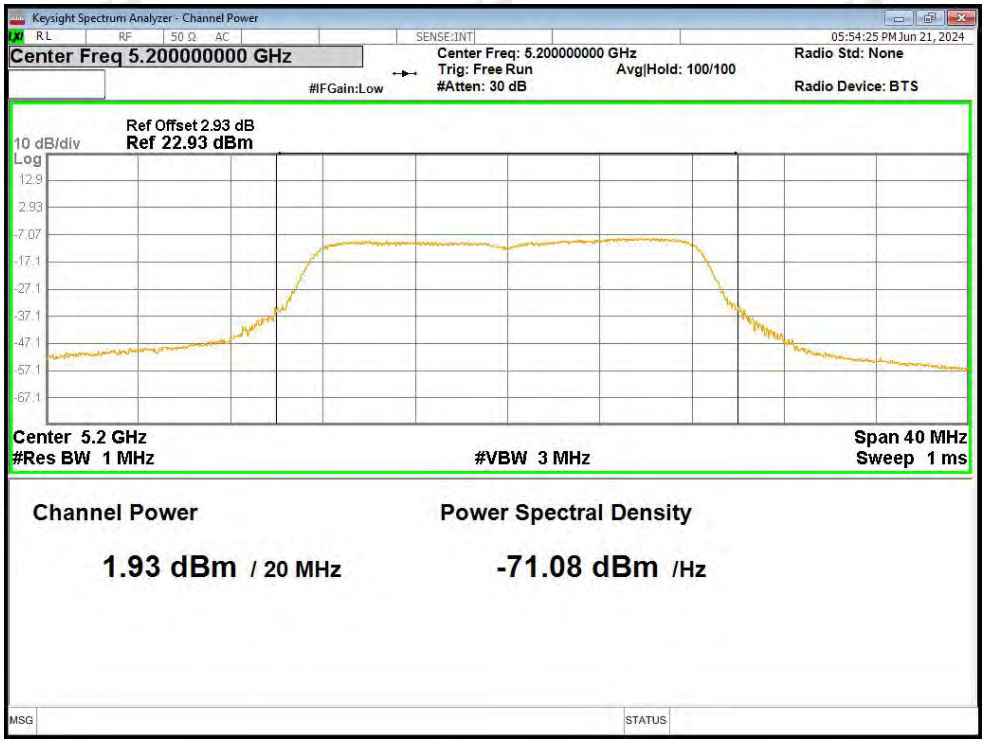
Power NVNT a 5240MHz Ant1



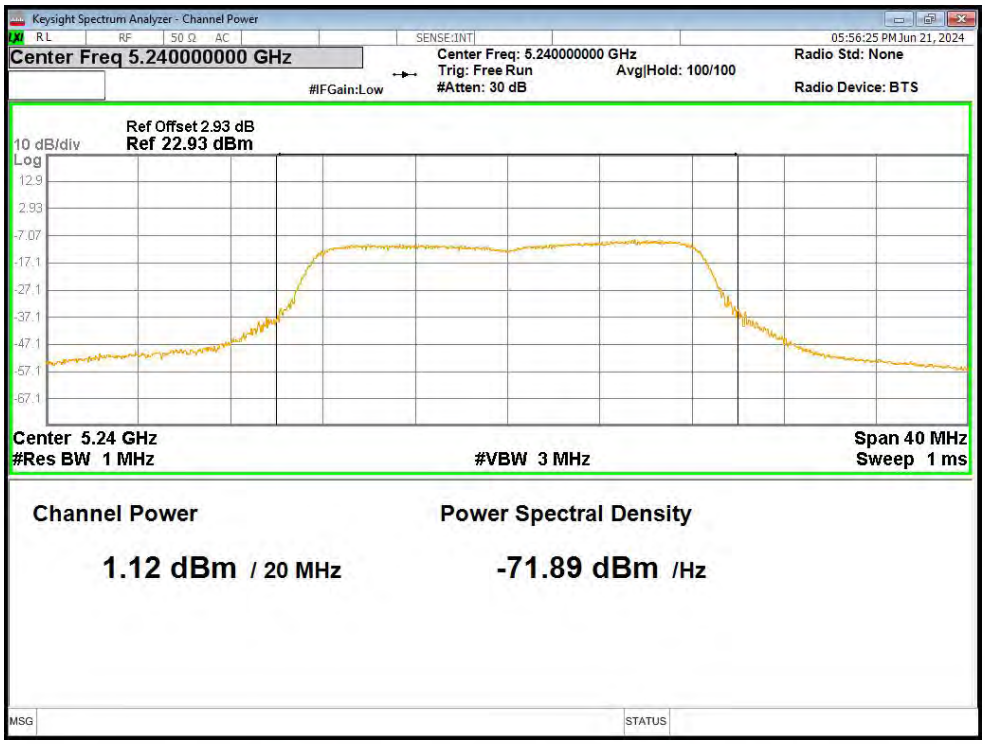
Power NVNT a 5180MHz Ant2



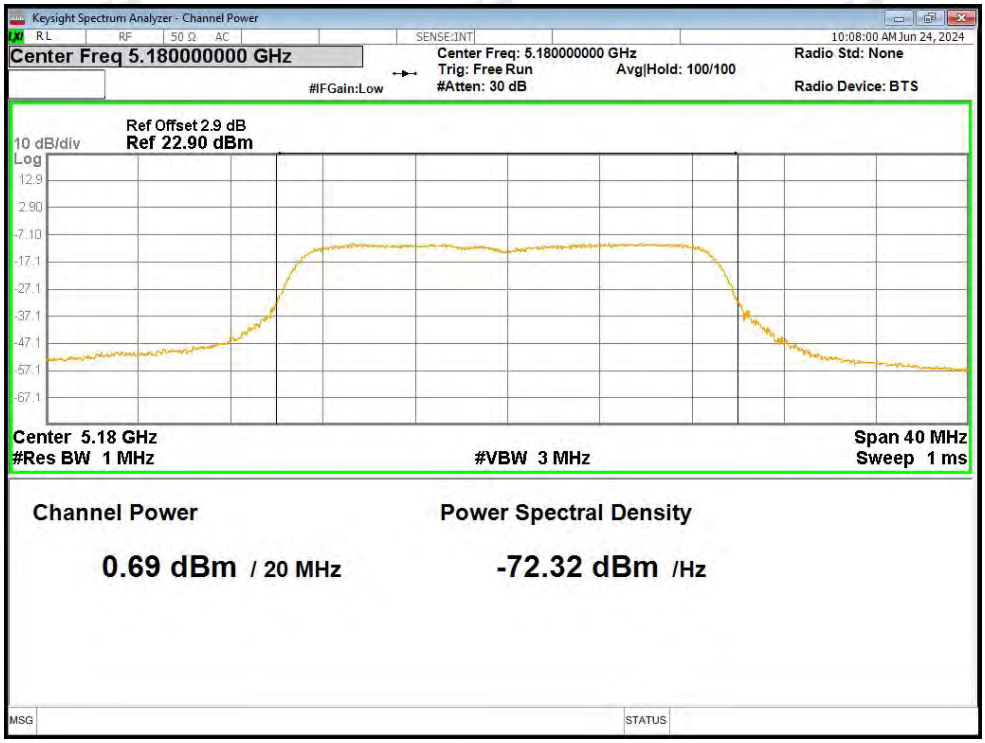
Power NVNT a 5200MHz Ant2



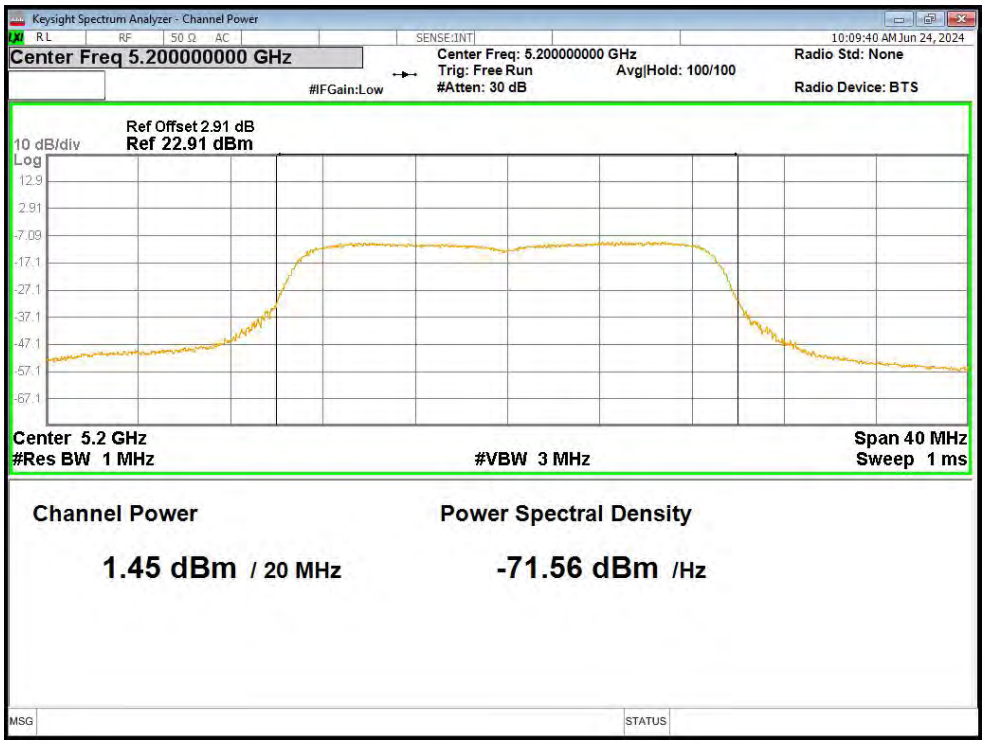
Power NVNT a 5240MHz Ant2



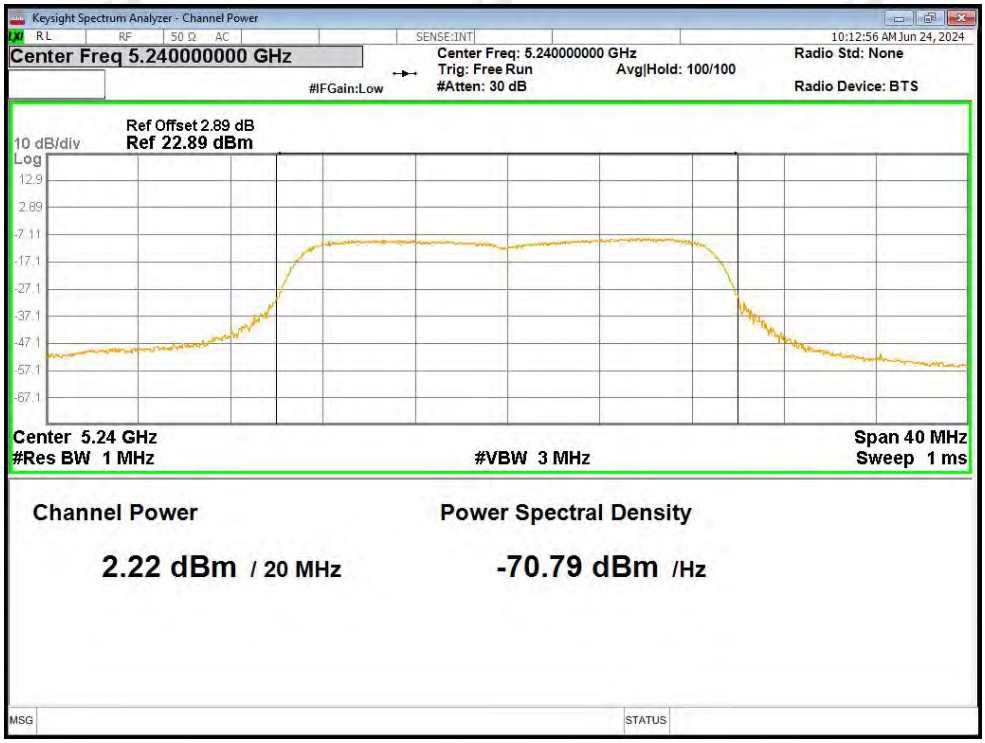
Power NVNT n20 5180MHz Ant1



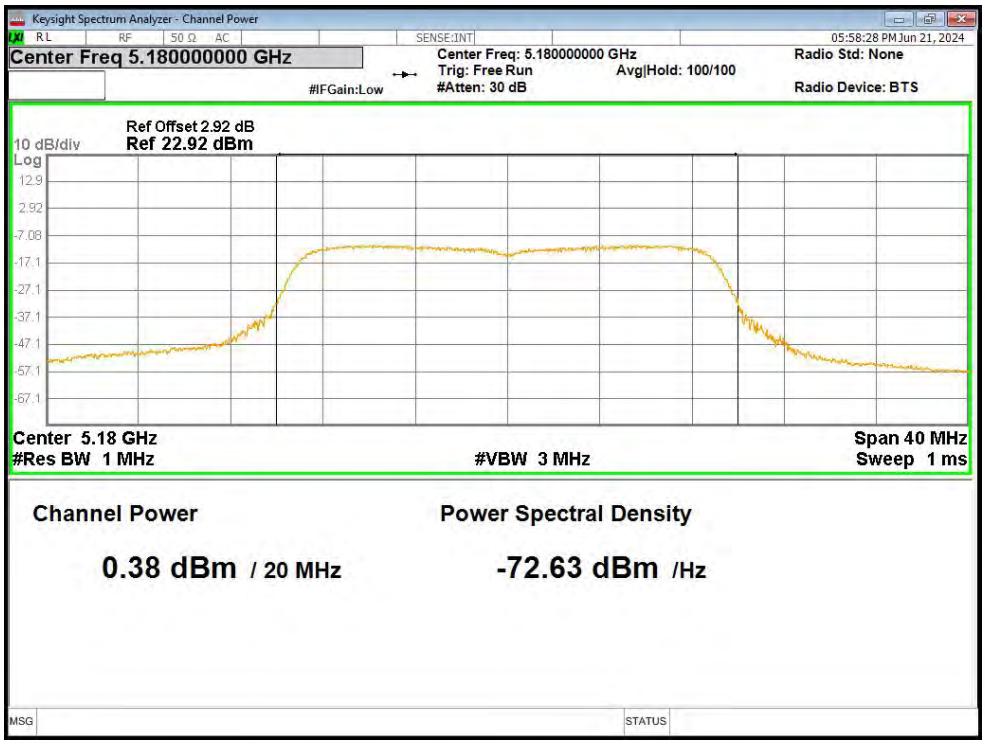
Power NVNT n20 5200MHz Ant1



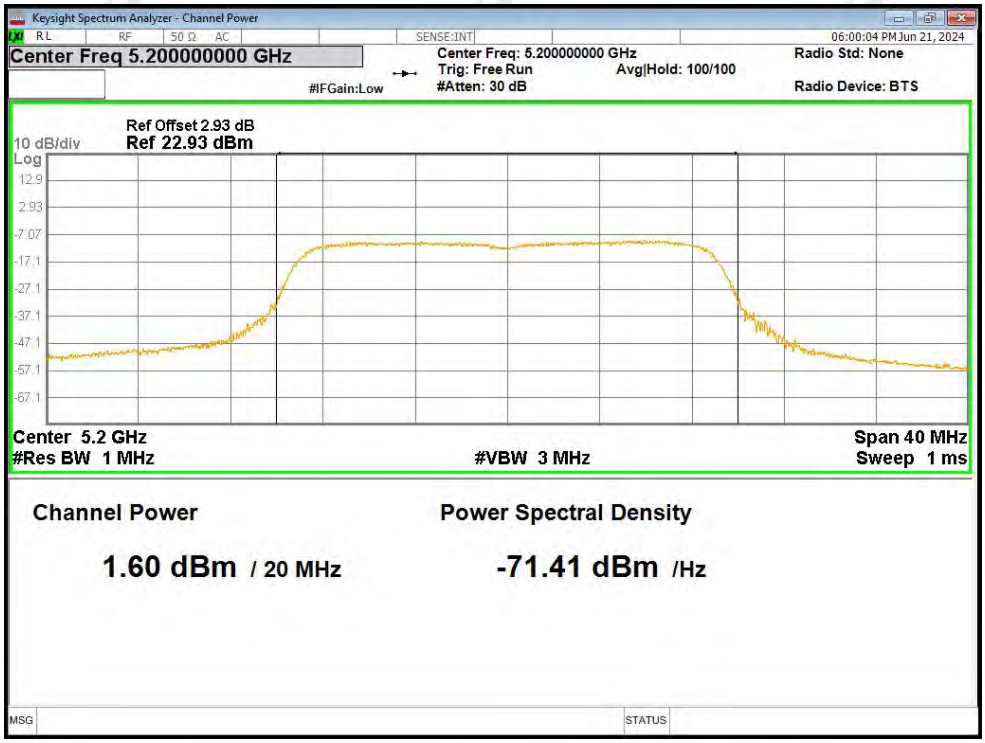
Power NVNT n20 5240MHz Ant1



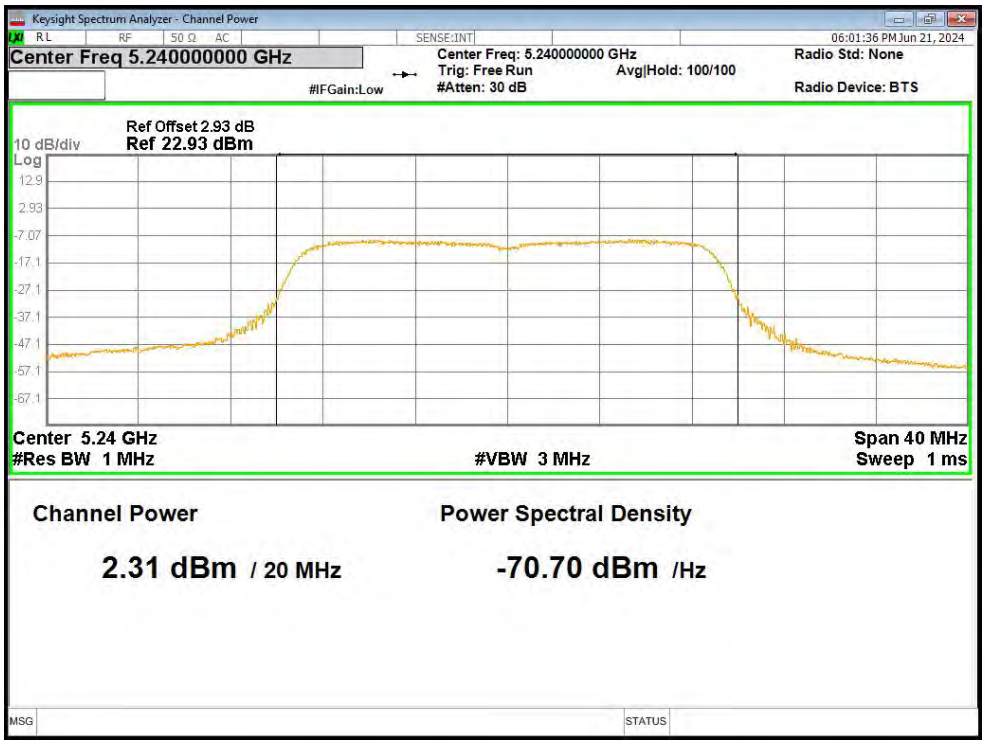
Power NVNT n20 5180MHz Ant2



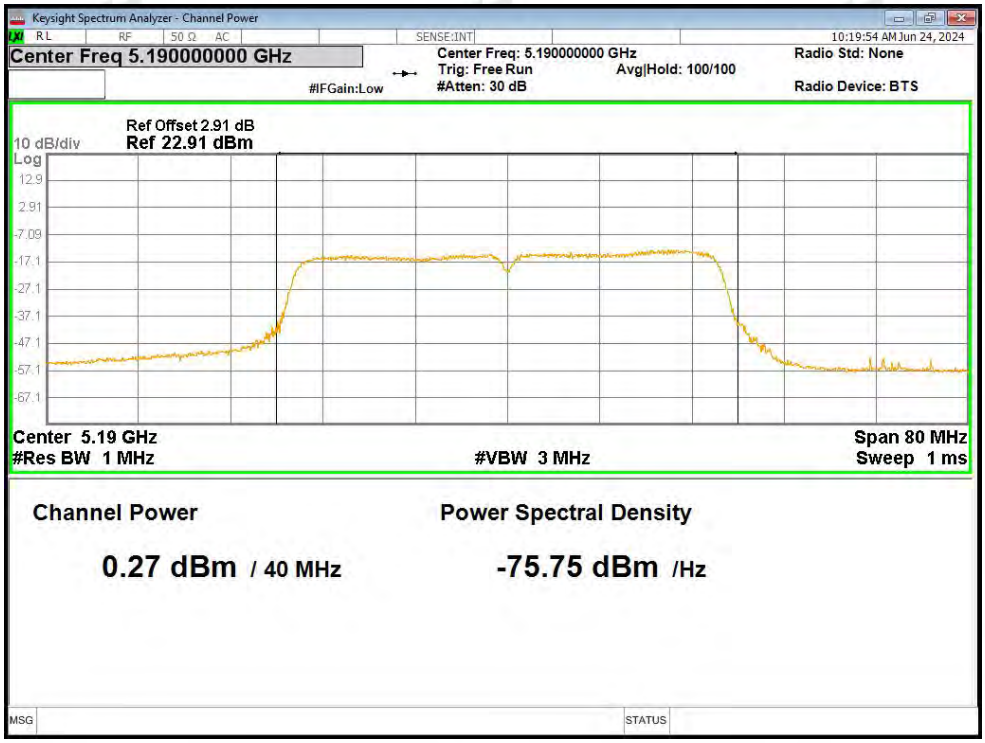
Power NVNT n20 5200MHz Ant2



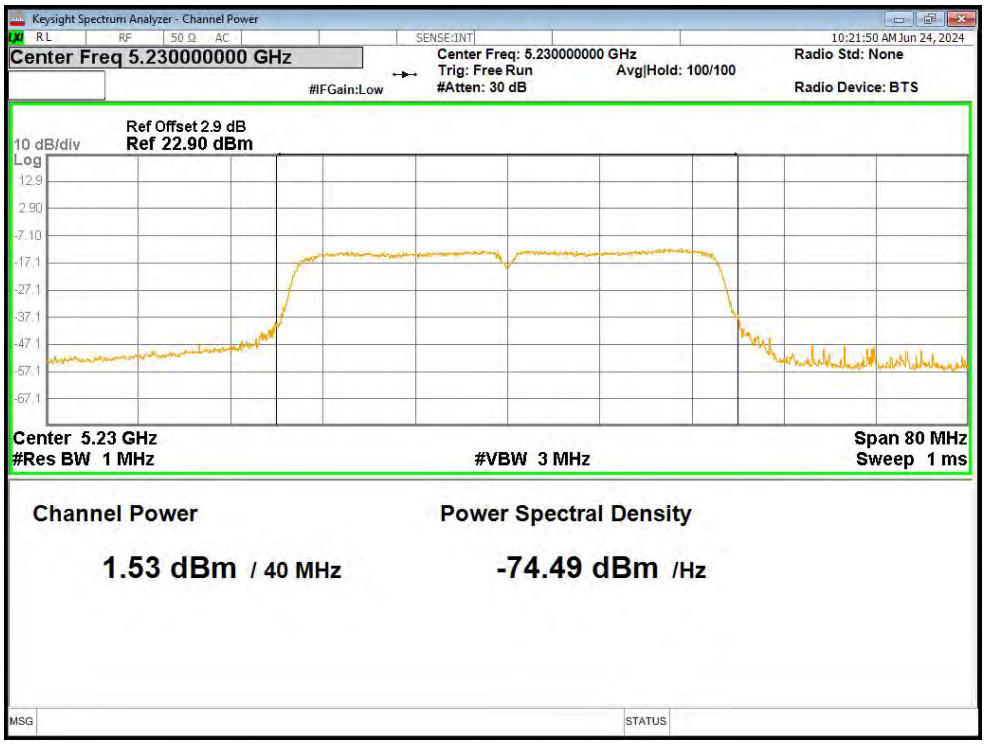
Power NVNT n20 5240MHz Ant2



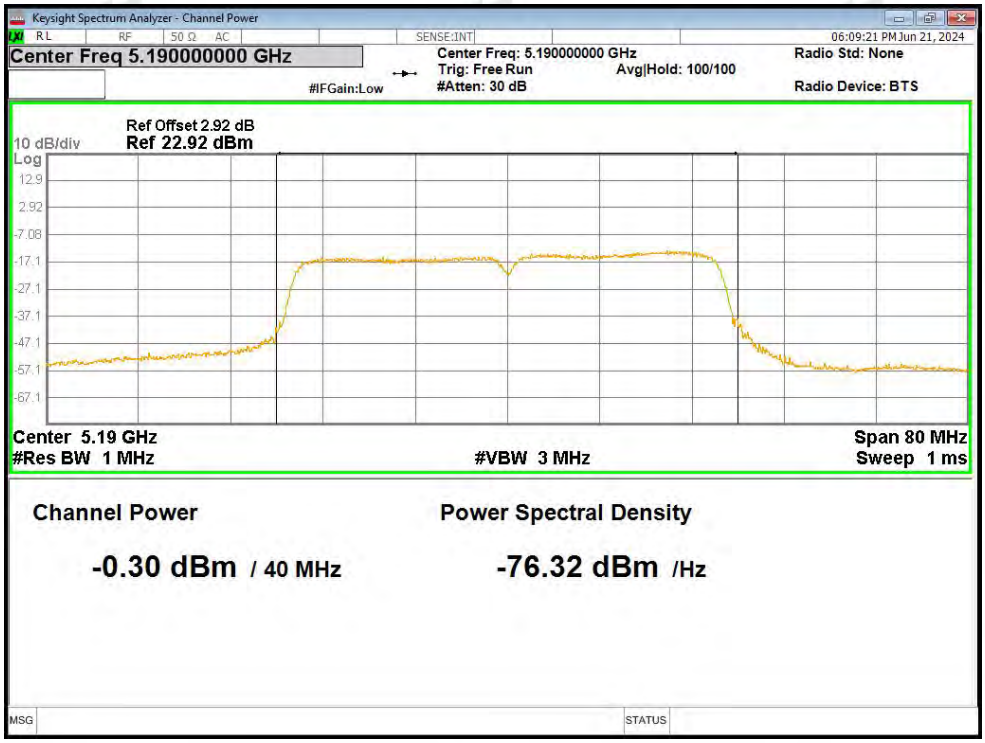
Power NVNT n40 5190MHz Ant1



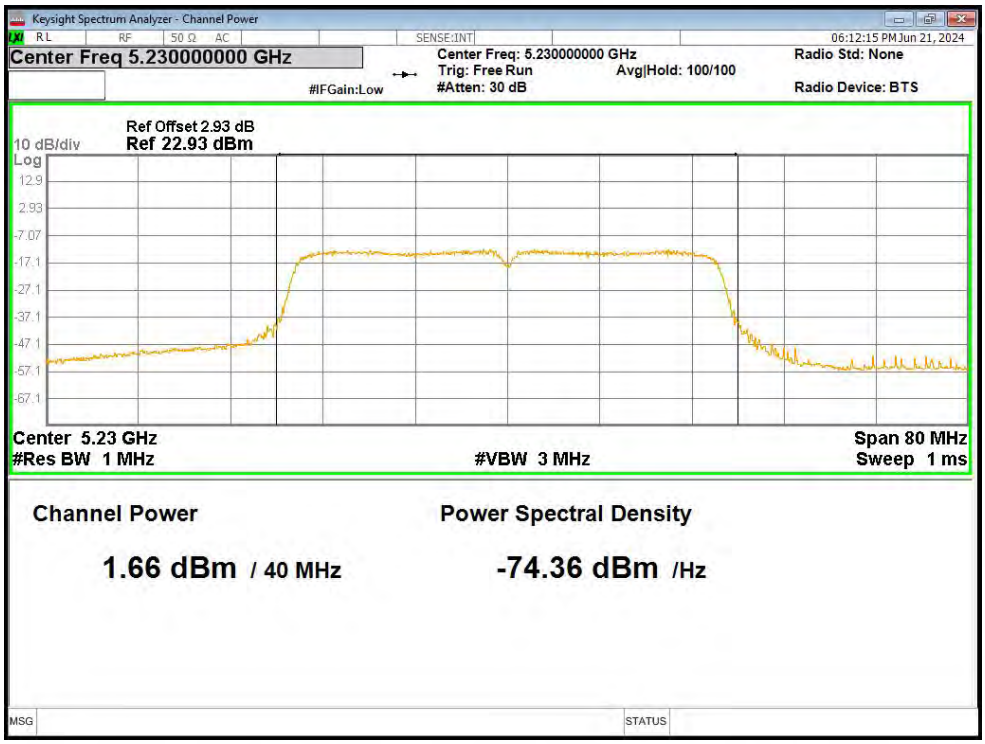
Power NVNT n40 5230MHz Ant1



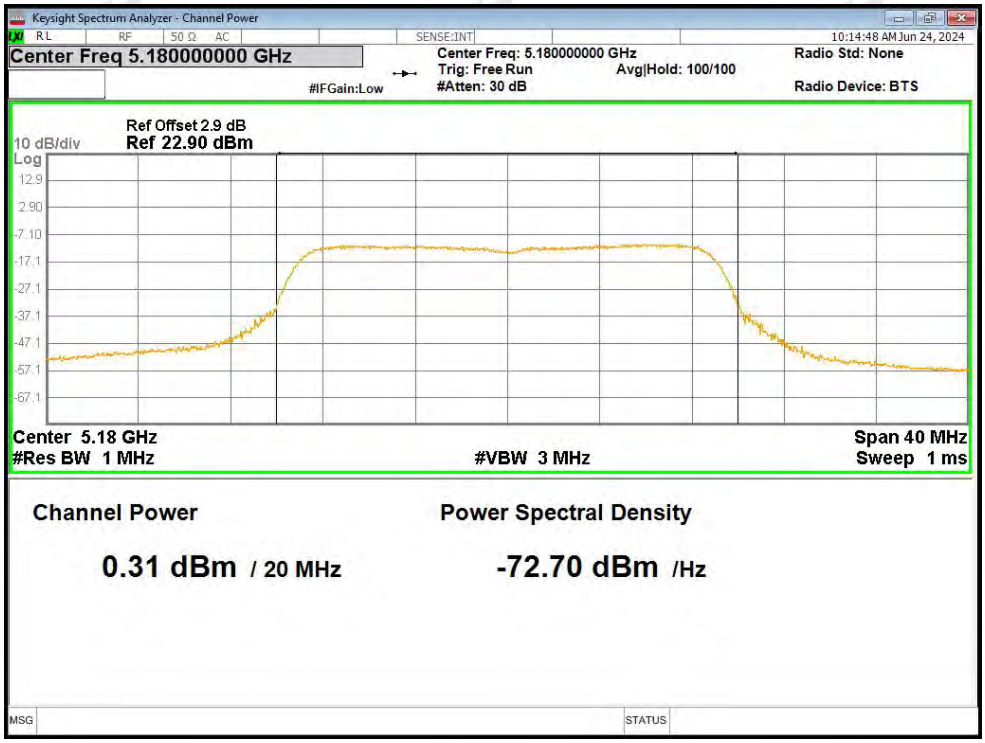
Power NVNT n40 5190MHz Ant2



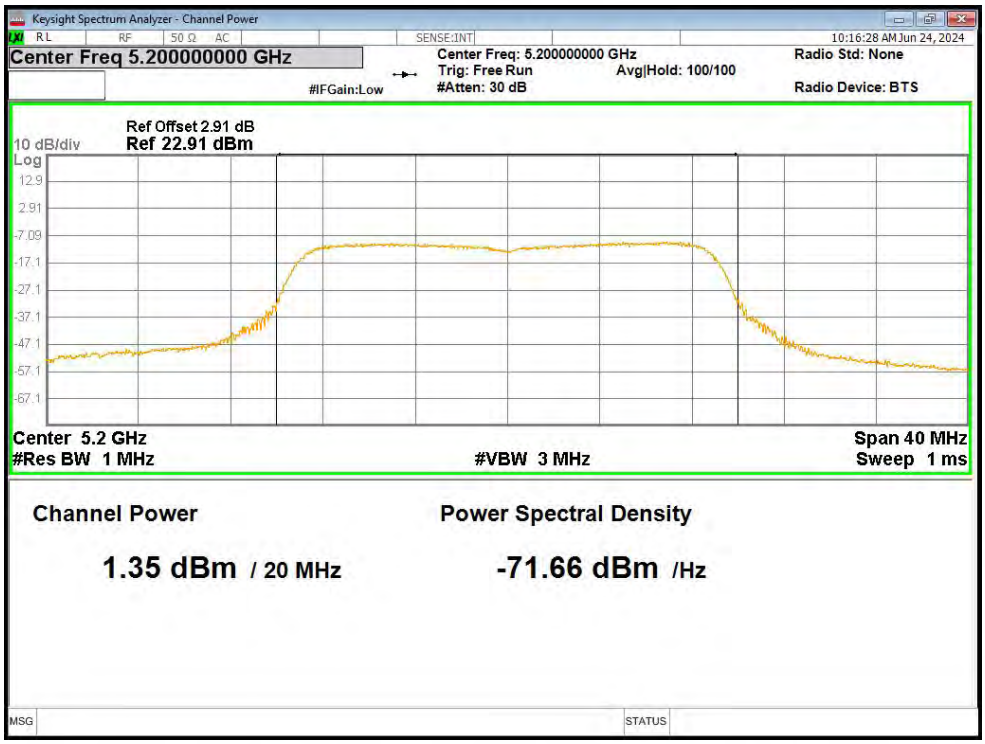
Power NVNT n40 5230MHz Ant2



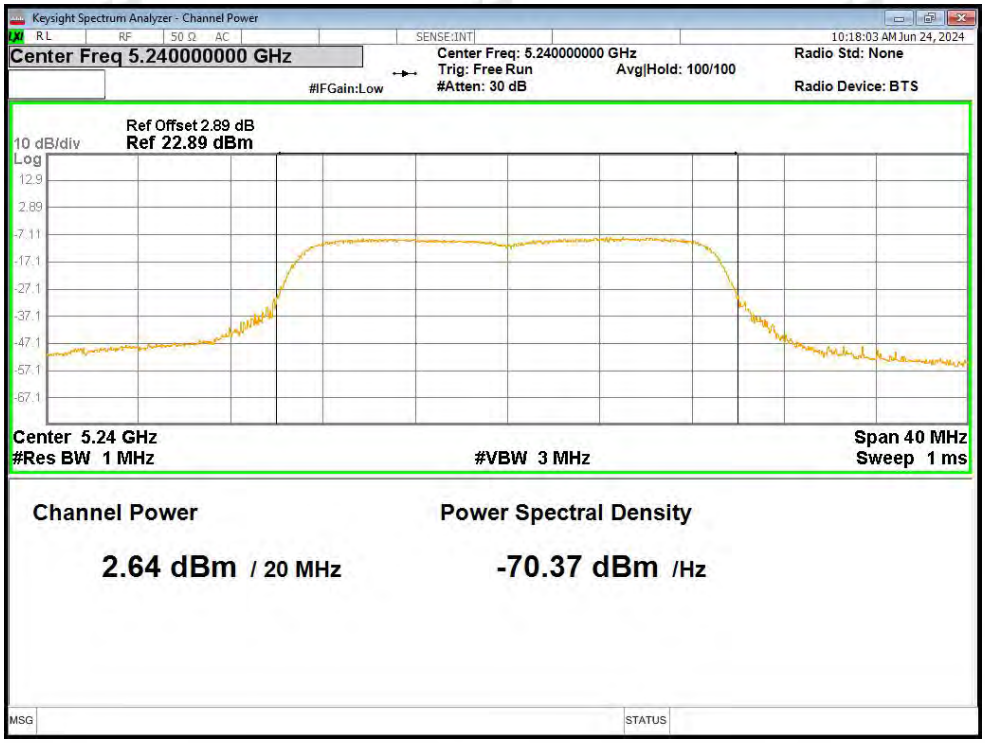
Power NVNT ac20 5180MHz Ant1



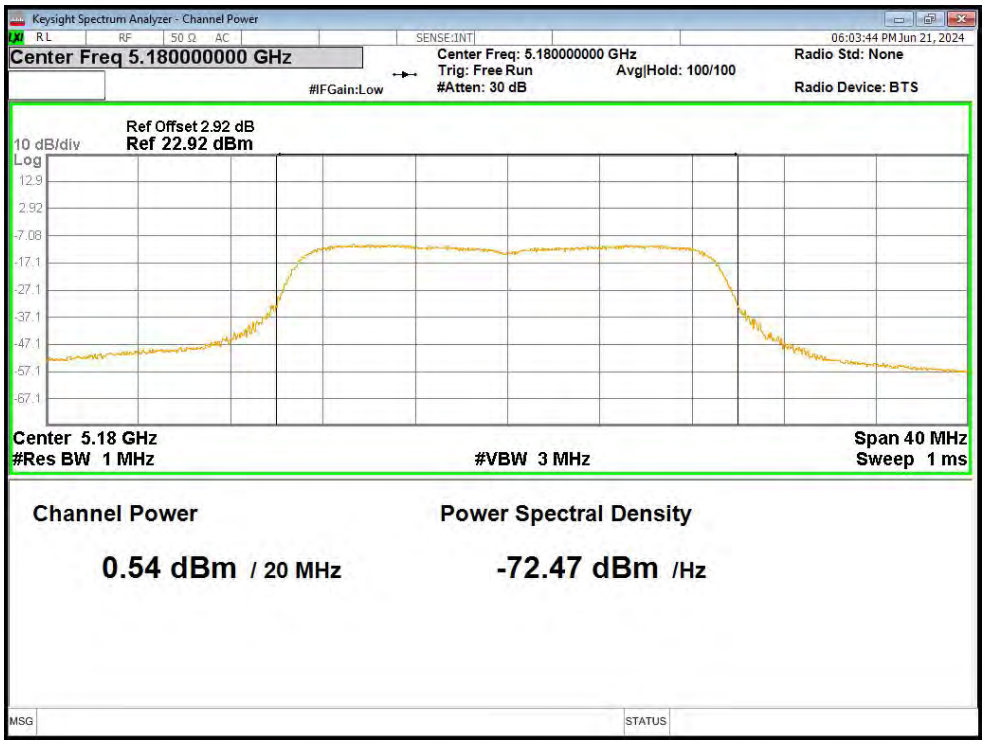
Power NVNT ac20 5200MHz Ant1



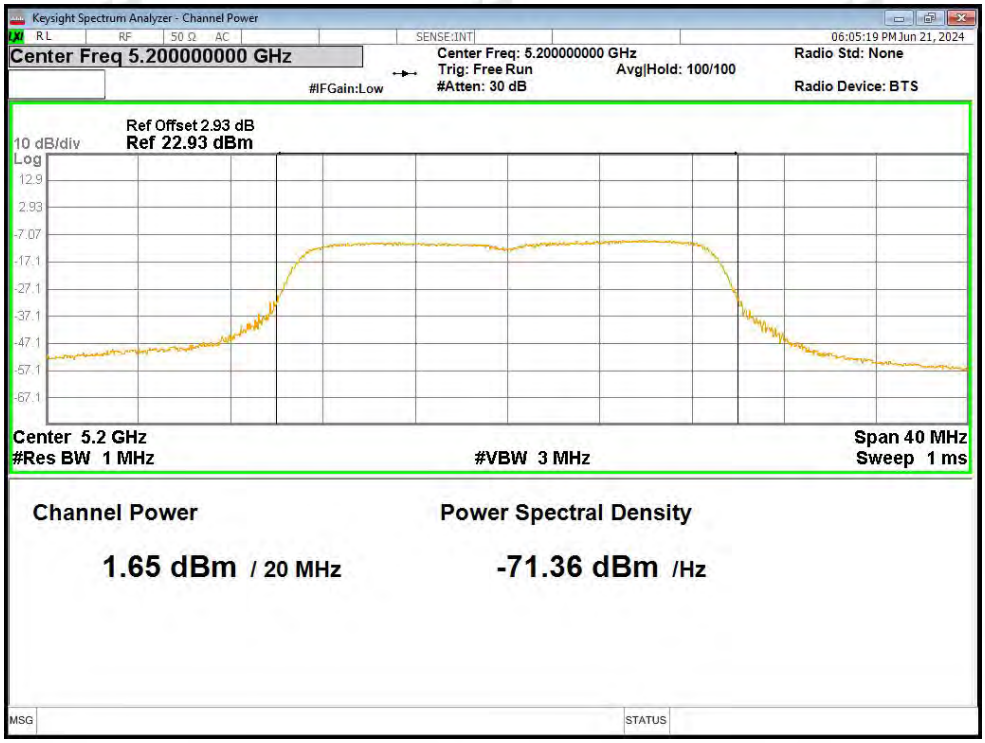
Power NVNT ac20 5240MHz Ant1



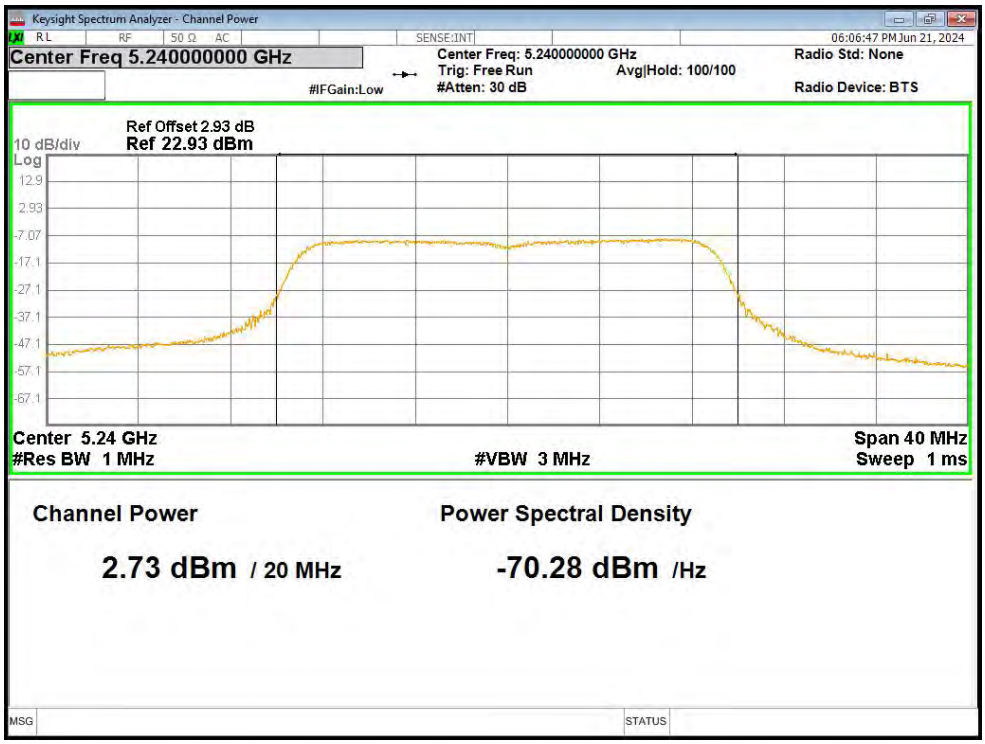
Power NVNT ac20 5180MHz Ant2



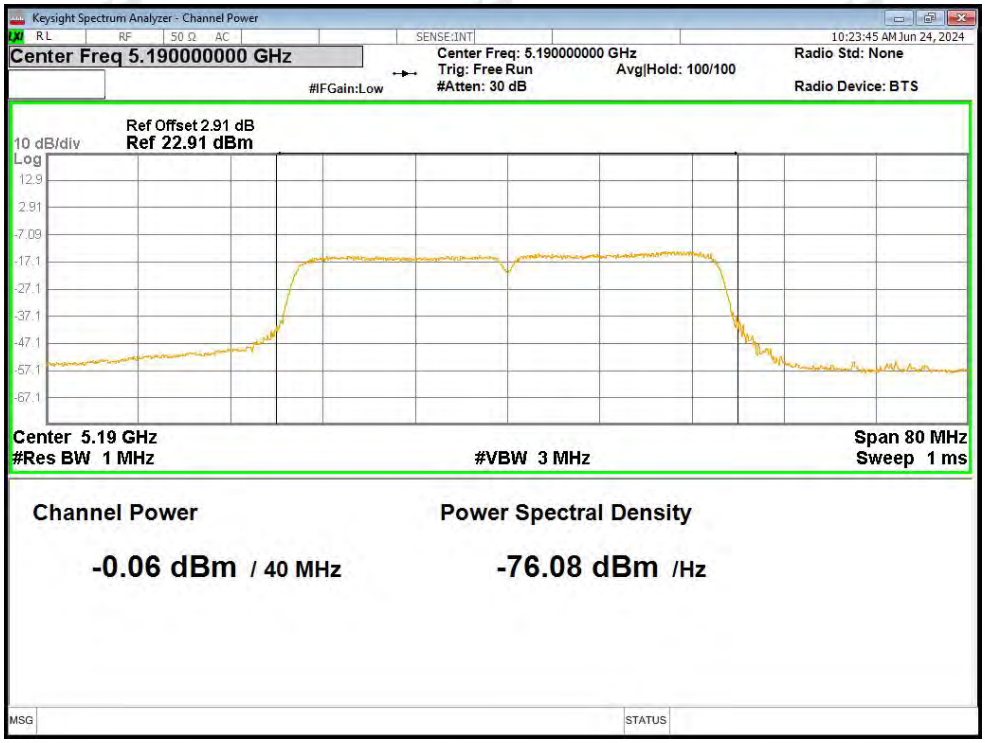
Power NVNT ac20 5200MHz Ant2



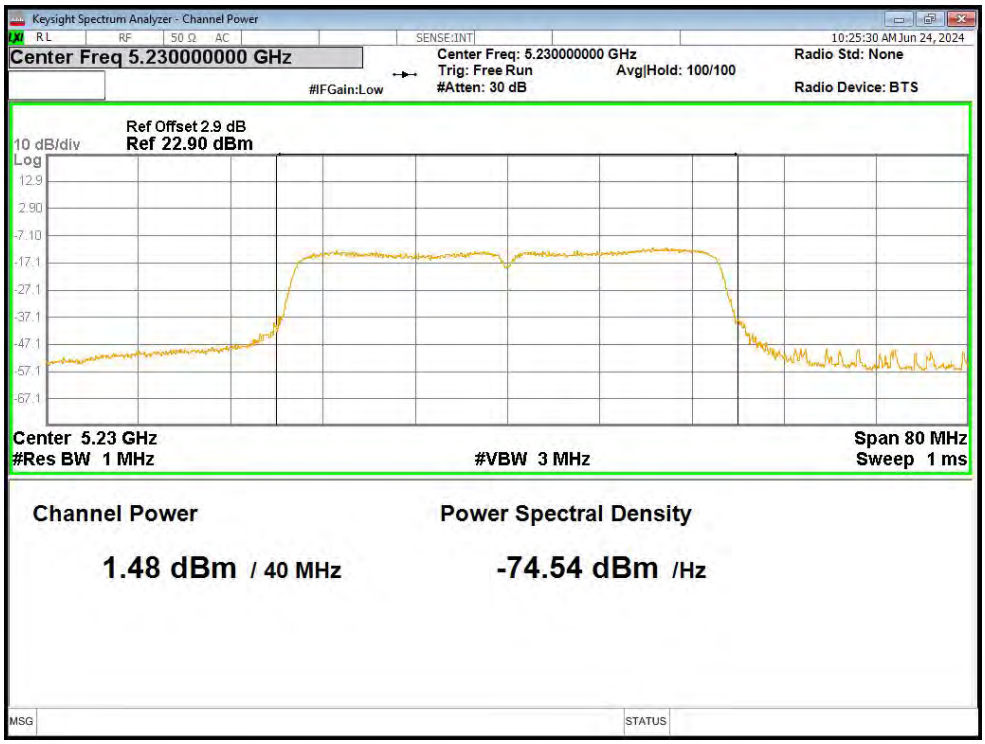
Power NVNT ac20 5240MHz Ant2



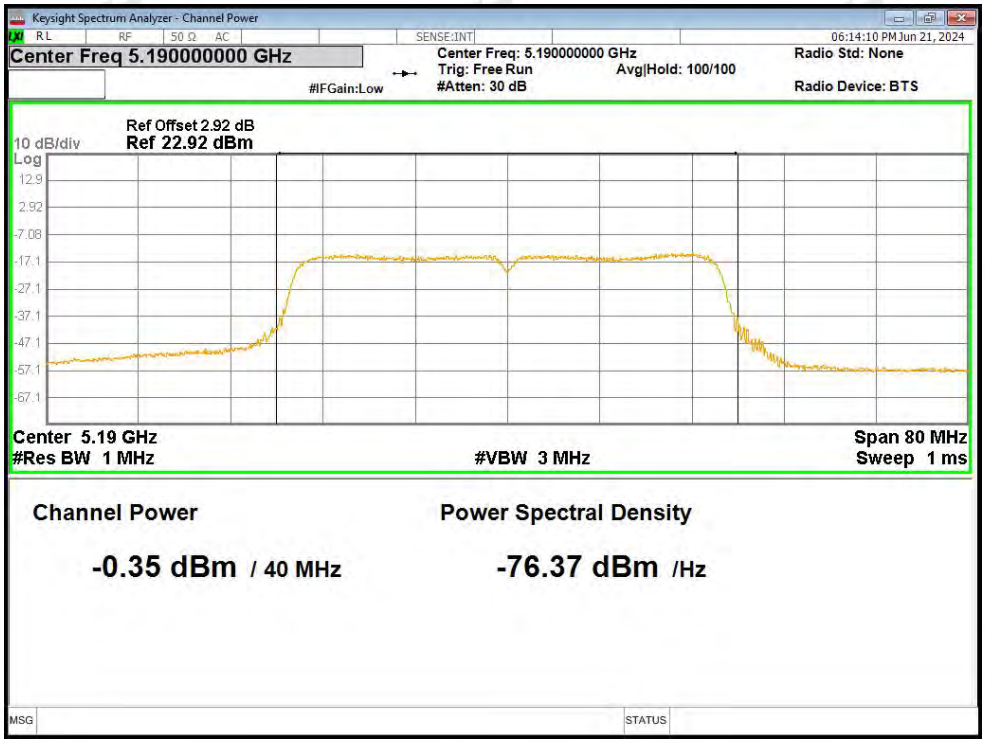
Power NVNT ac40 5190MHz Ant1



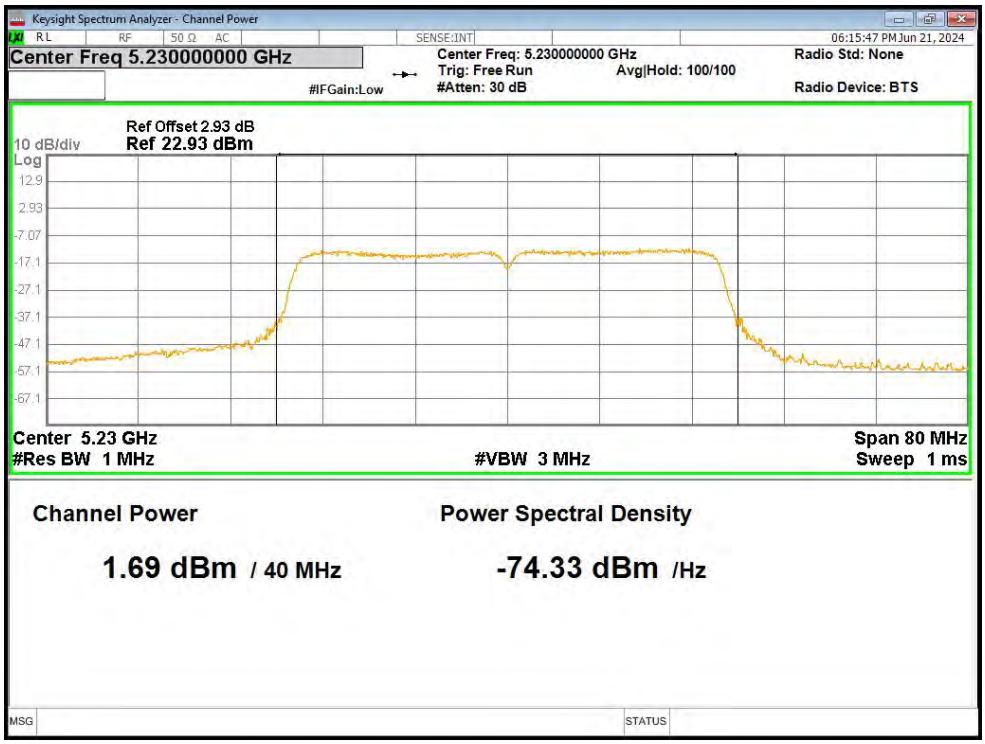
Power NVNT ac40 5230MHz Ant1



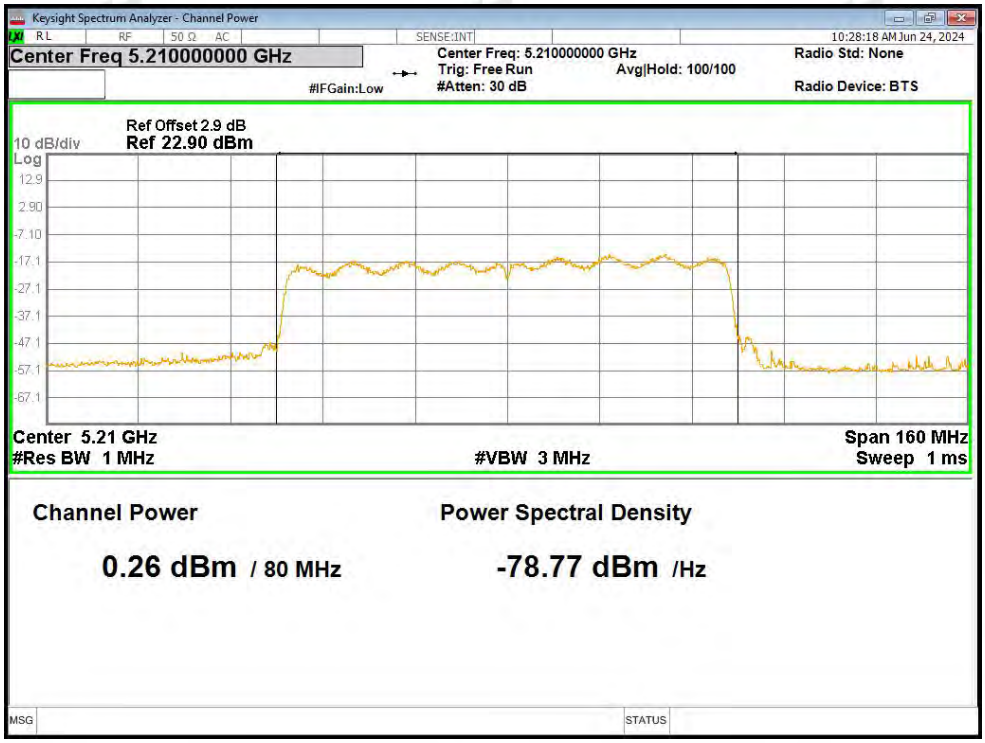
Power NVNT ac40 5190MHz Ant2



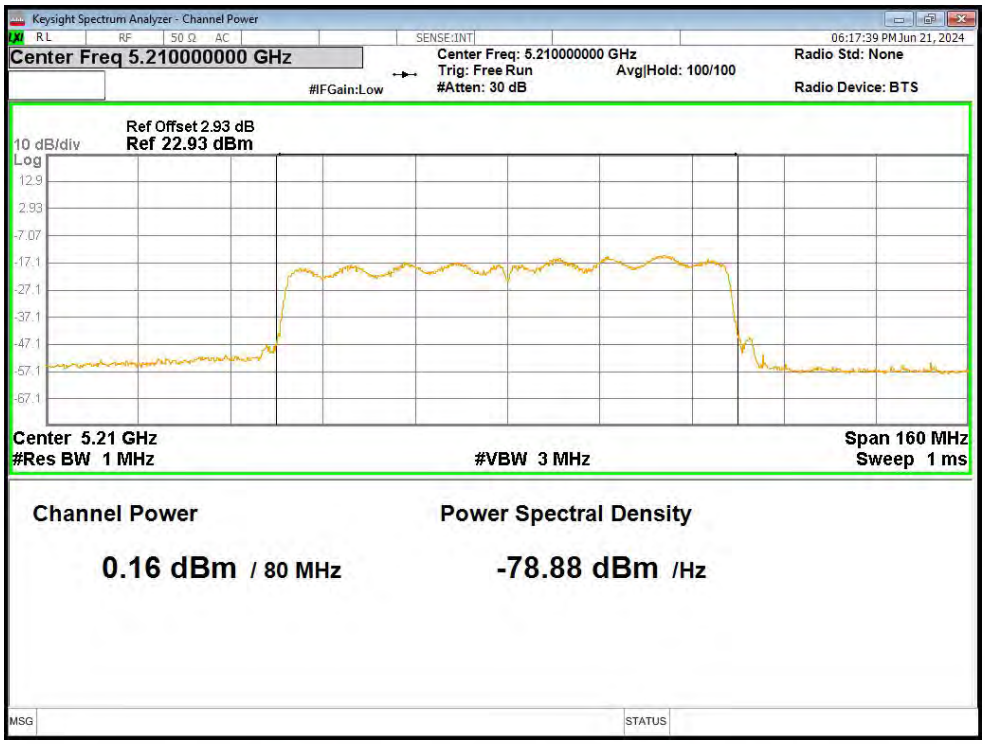
Power NVNT ac40 5230MHz Ant2



Power NVNT ac80 5210MHz Ant1



Power NVNT ac80 5210MHz Ant2

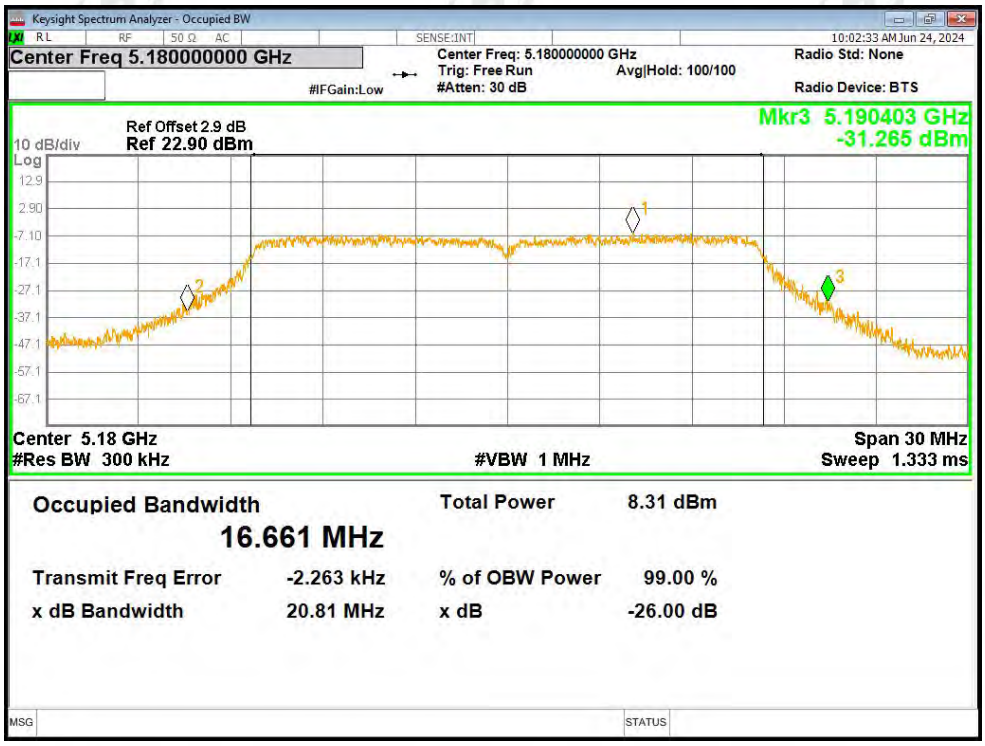


A3. -26dB Bandwidth

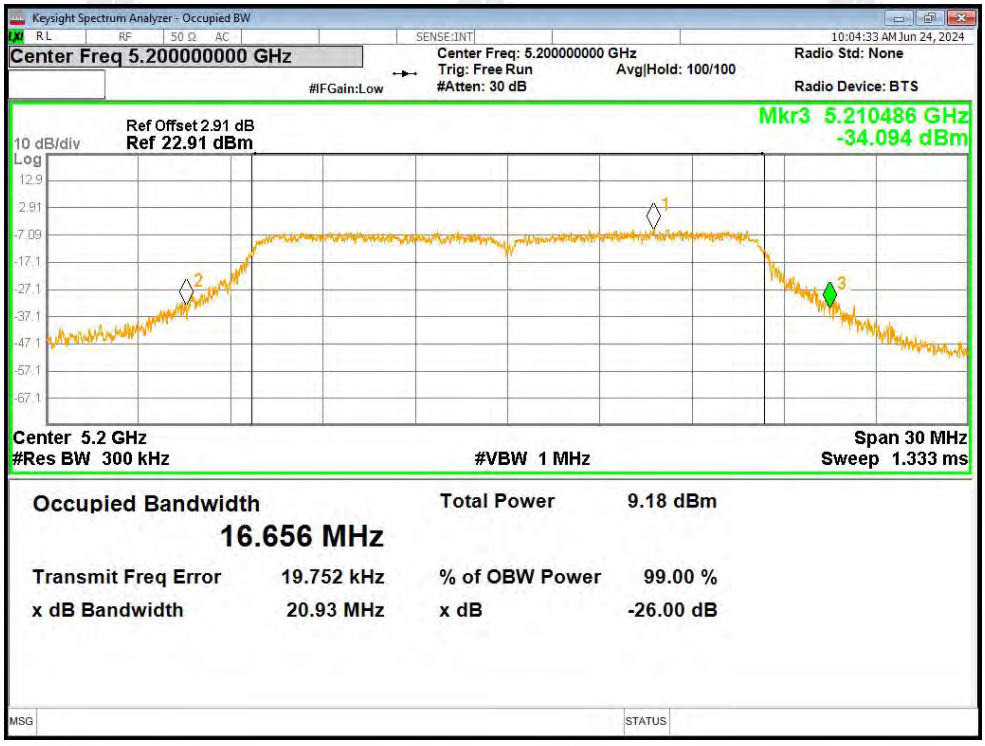
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.811	Pass
NVNT	a	5200	Ant1	20.933	Pass
NVNT	a	5240	Ant1	20.896	Pass
NVNT	a	5180	Ant2	20.636	Pass
NVNT	a	5200	Ant2	20.865	Pass
NVNT	a	5240	Ant2	20.735	Pass
NVNT	n20	5180	Ant1	21.329	Pass
NVNT	n20	5200	Ant1	21.437	Pass
NVNT	n20	5240	Ant1	21.105	Pass
NVNT	n20	5180	Ant2	21.221	Pass
NVNT	n20	5200	Ant2	21.207	Pass
NVNT	n20	5240	Ant2	21.299	Pass
NVNT	n40	5190	Ant1	41.613	Pass
NVNT	n40	5230	Ant1	41.998	Pass
NVNT	n40	5190	Ant2	41.157	Pass
NVNT	n40	5230	Ant2	41.749	Pass
NVNT	ac20	5180	Ant1	21.309	Pass
NVNT	ac20	5200	Ant1	21.258	Pass
NVNT	ac20	5240	Ant1	21.329	Pass
NVNT	ac20	5180	Ant2	21.288	Pass
NVNT	ac20	5200	Ant2	21.135	Pass
NVNT	ac20	5240	Ant2	21.255	Pass
NVNT	ac40	5190	Ant1	40.218	Pass
NVNT	ac40	5230	Ant1	40.833	Pass
NVNT	ac40	5190	Ant2	40.626	Pass
NVNT	ac40	5230	Ant2	40.949	Pass
NVNT	ac80	5210	Ant1	79.82	Pass
NVNT	ac80	5210	Ant2	79.892	Pass

Test Graphs

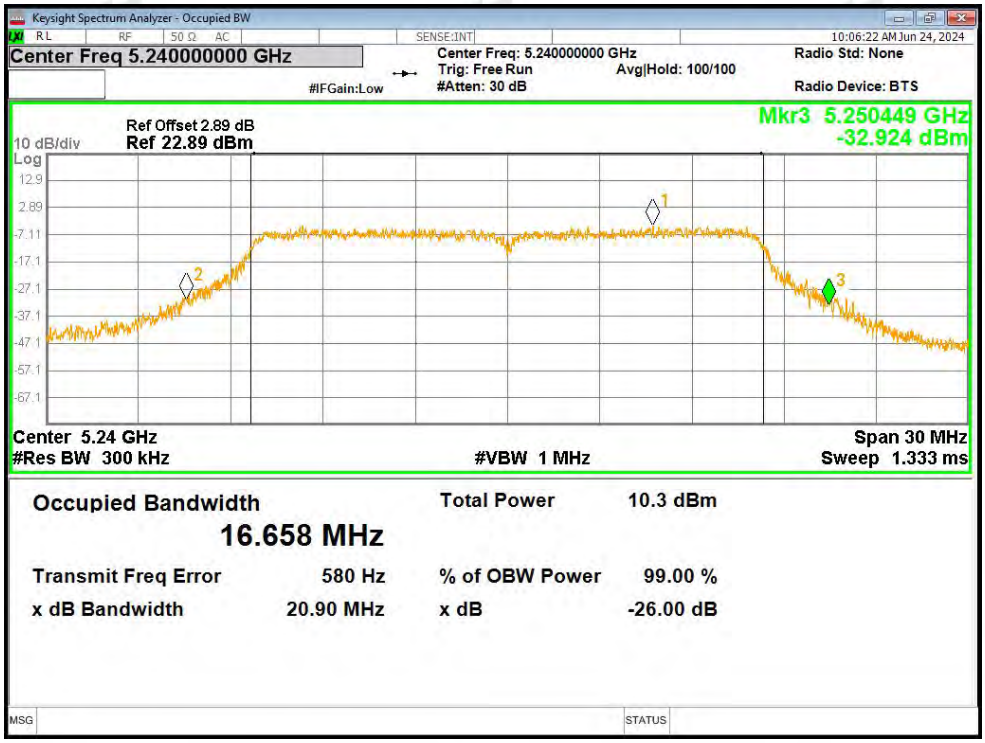
-26dB Bandwidth NVNT a 5180MHz Ant1



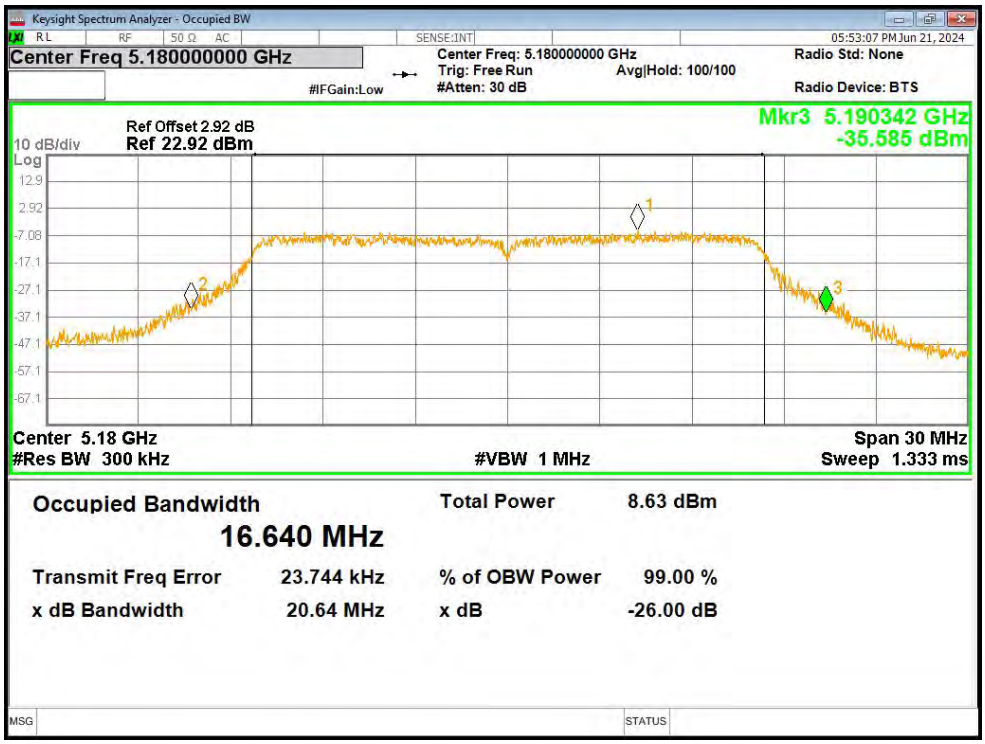
-26dB Bandwidth NVNT a 5200MHz Ant1



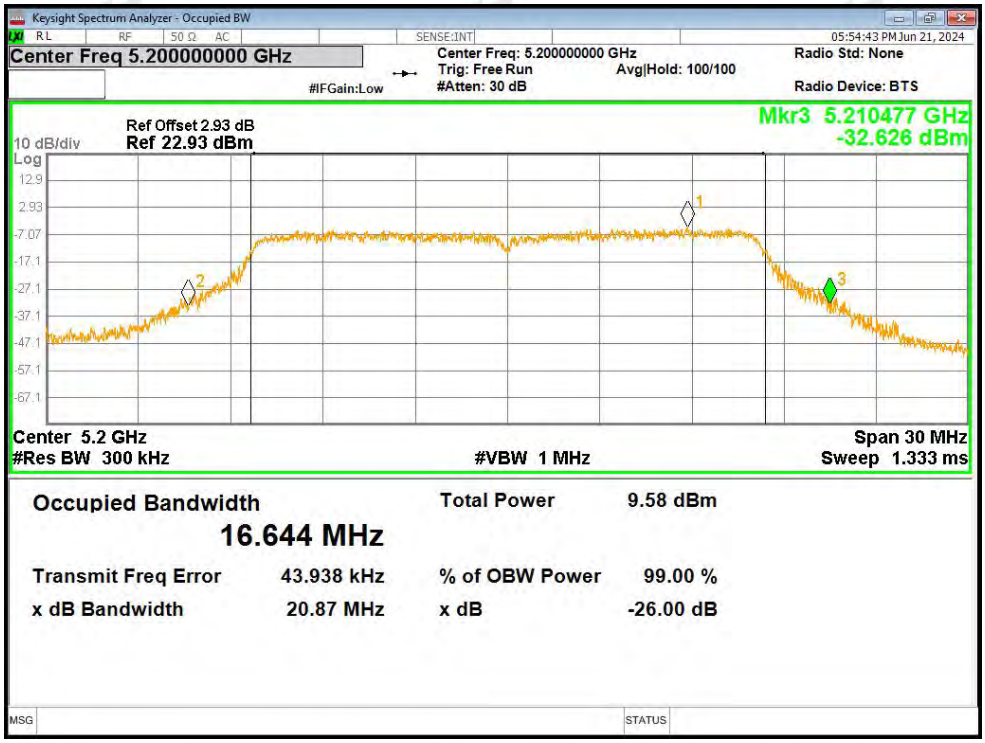
-26dB Bandwidth NVNT a 5240MHz Ant1



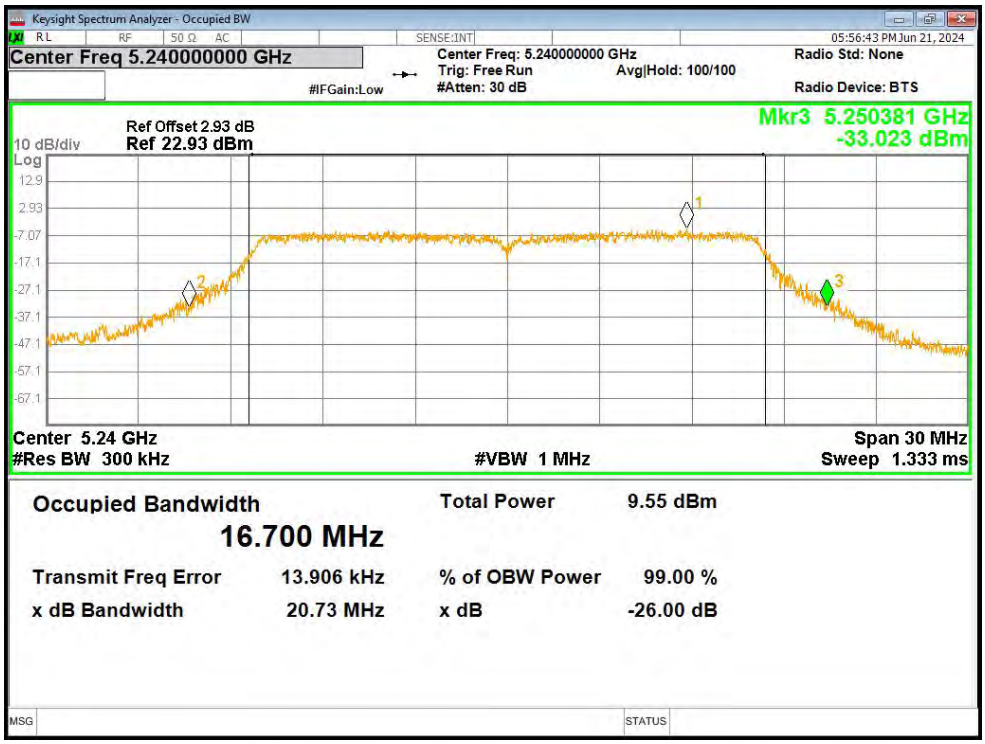
-26dB Bandwidth NVNT a 5180MHz Ant2



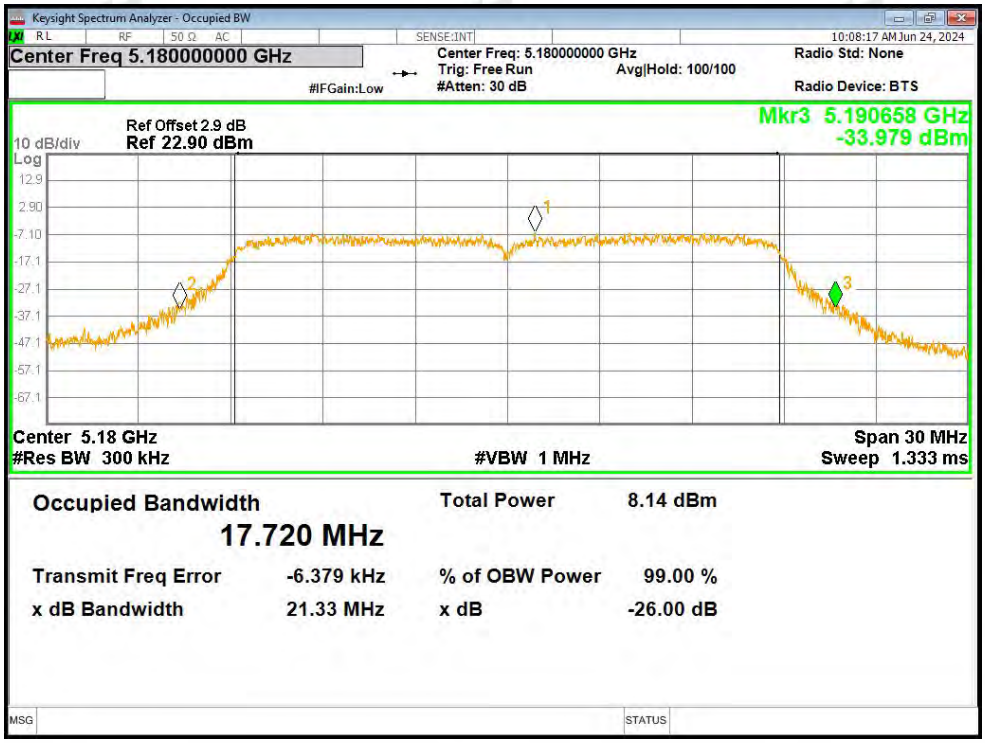
-26dB Bandwidth NVNT a 5200MHz Ant2



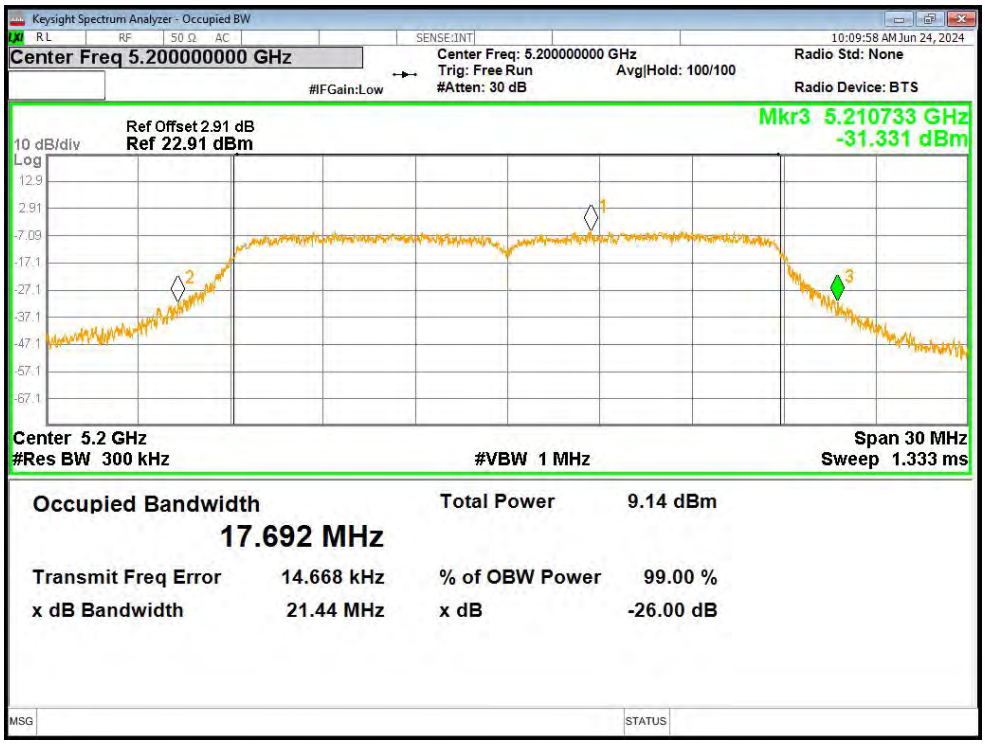
-26dB Bandwidth NVNT a 5240MHz Ant2



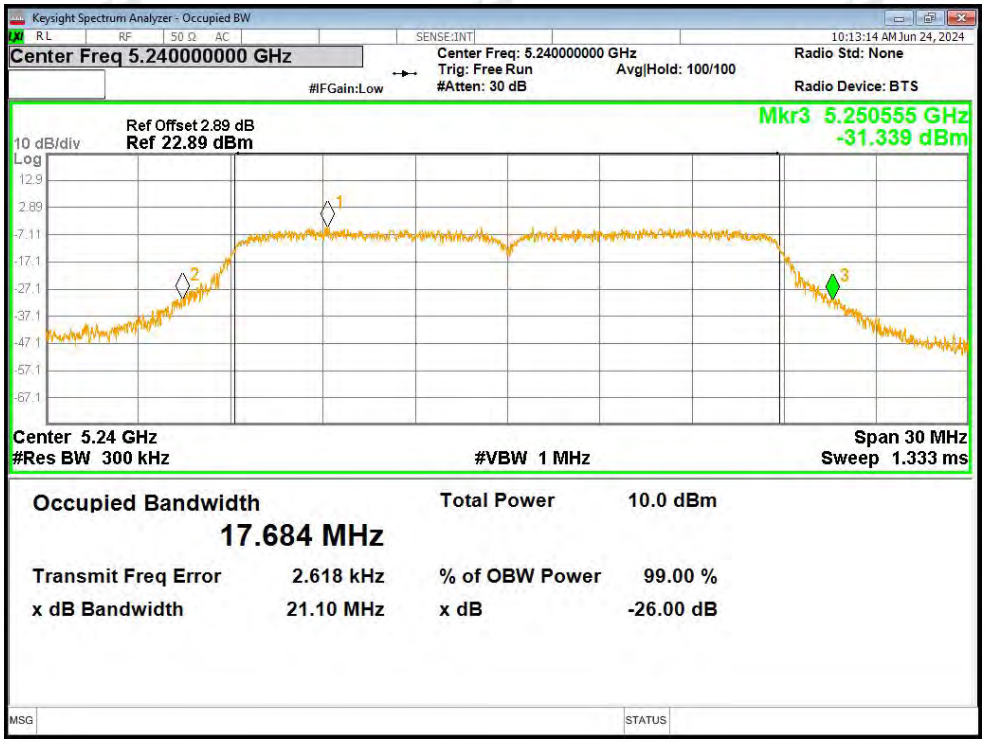
-26dB Bandwidth NVNT n20 5180MHz Ant1



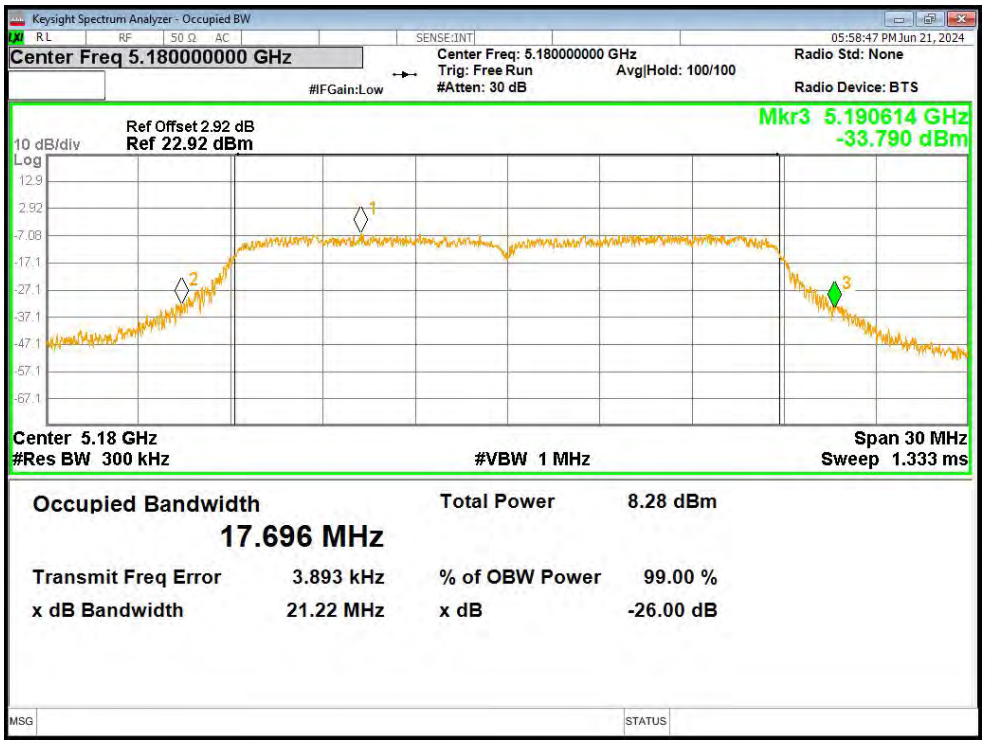
-26dB Bandwidth NVNT n20 5200MHz Ant1



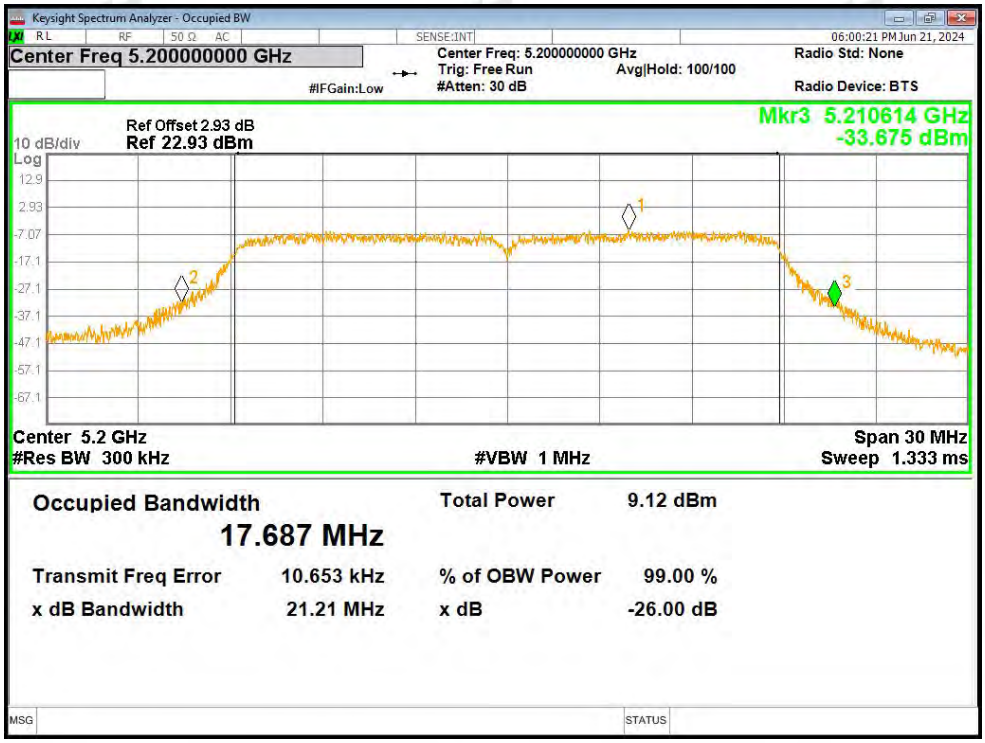
-26dB Bandwidth NVNT n20 5240MHz Ant1



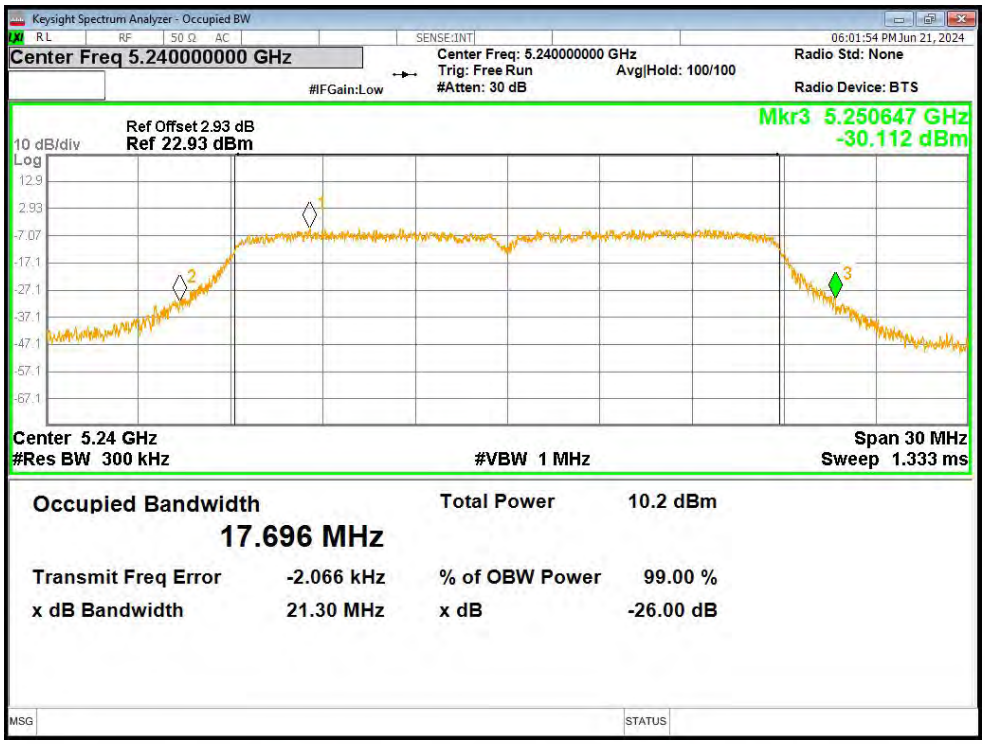
-26dB Bandwidth NVNT n20 5180MHz Ant2



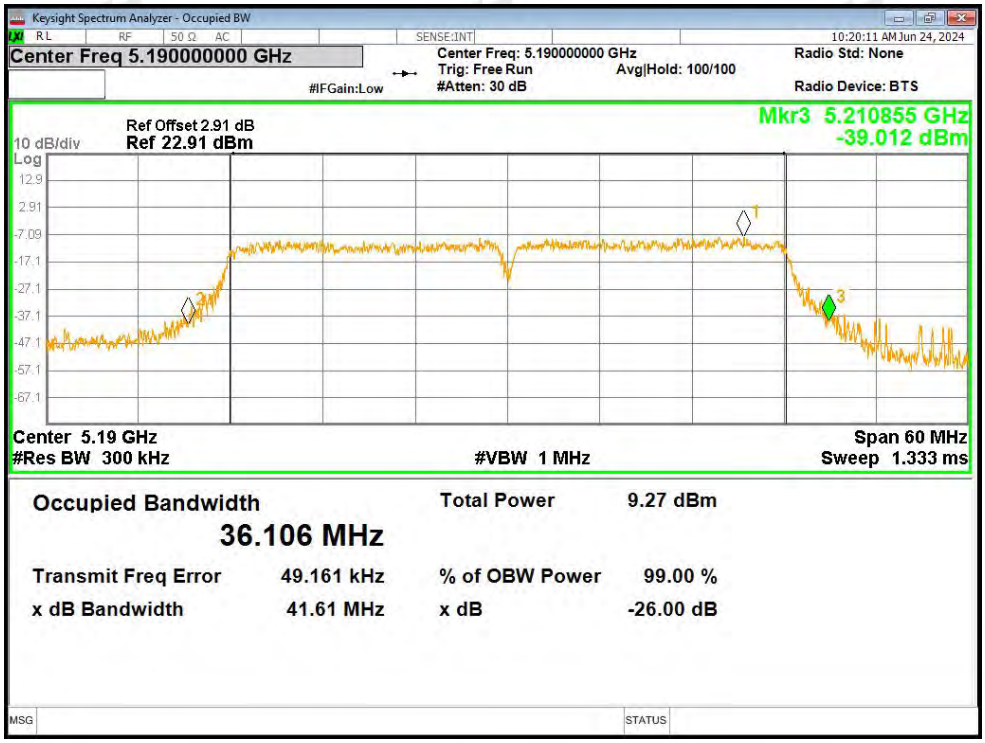
-26dB Bandwidth NVNT n20 5200MHz Ant2



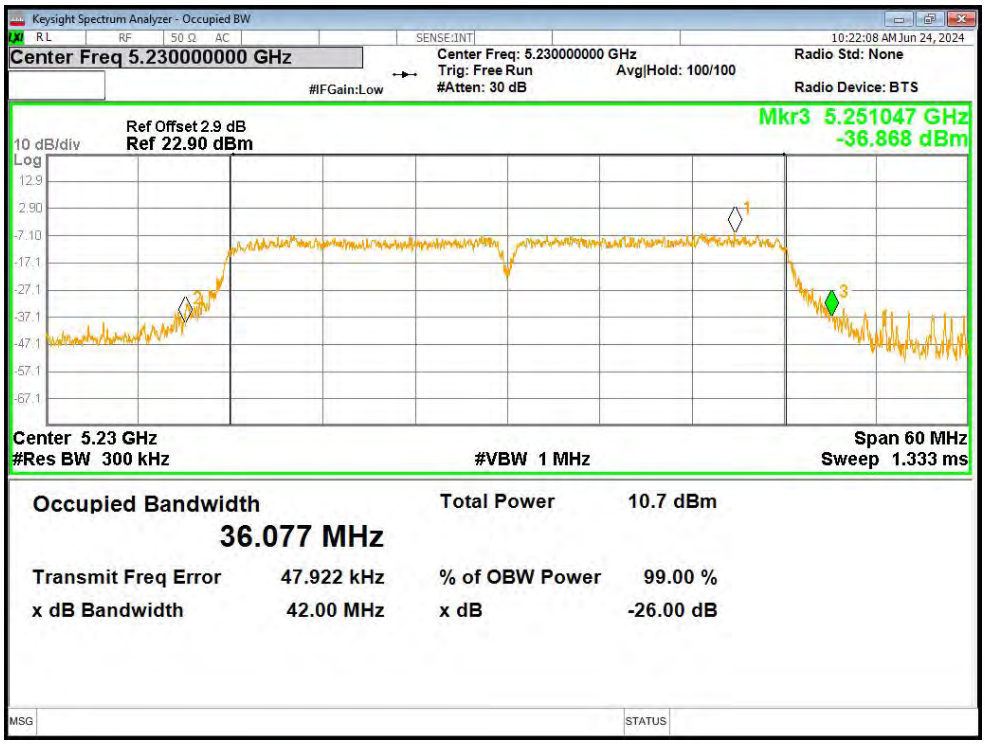
-26dB Bandwidth NVNT n20 5240MHz Ant2



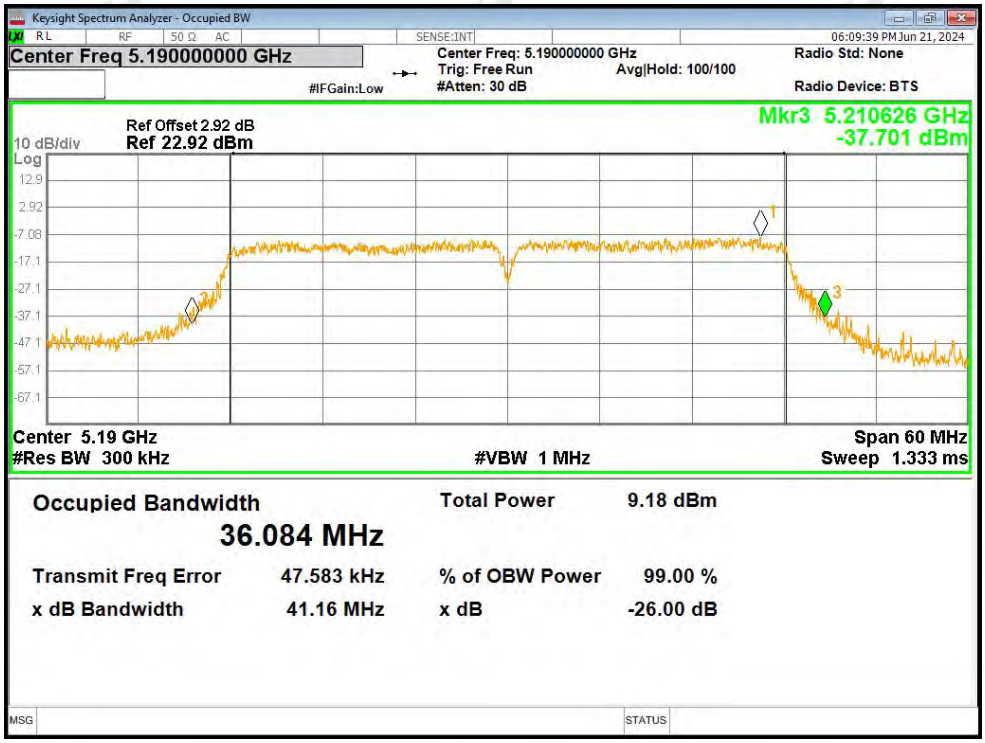
-26dB Bandwidth NVNT n40 5190MHz Ant1



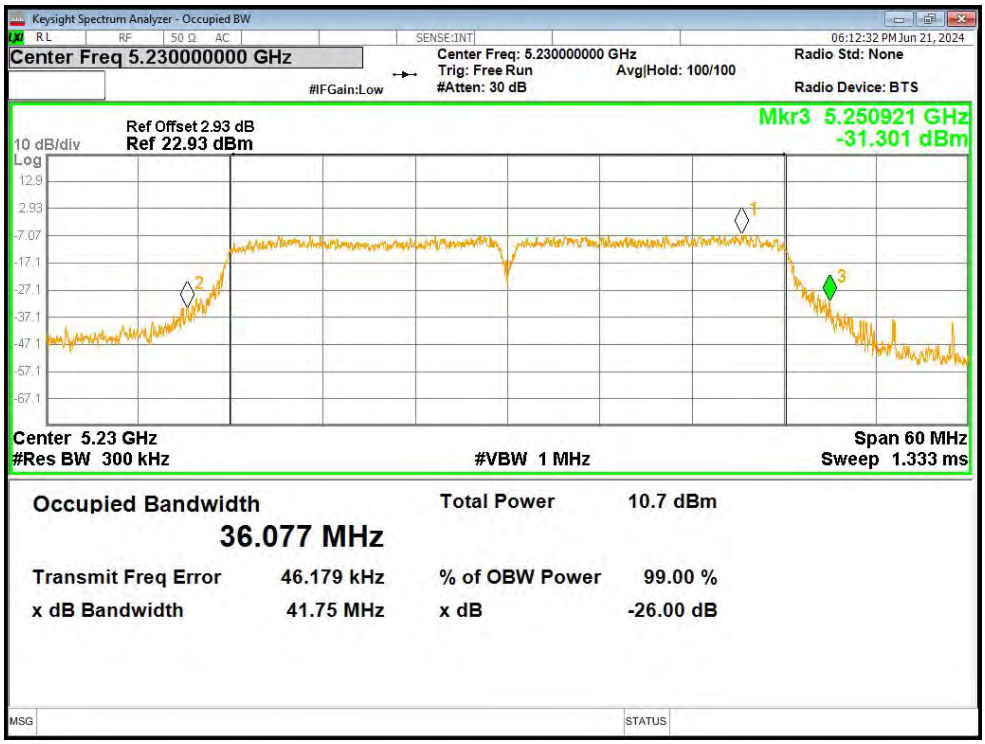
-26dB Bandwidth NVNT n40 5230MHz Ant1



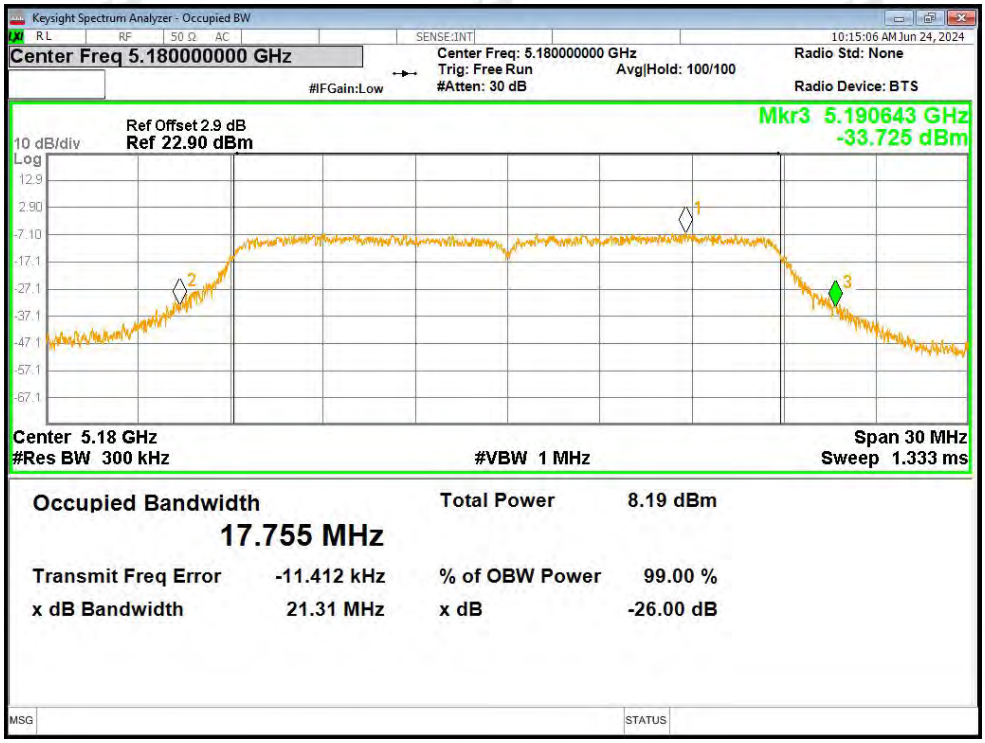
-26dB Bandwidth NVNT n40 5190MHz Ant2



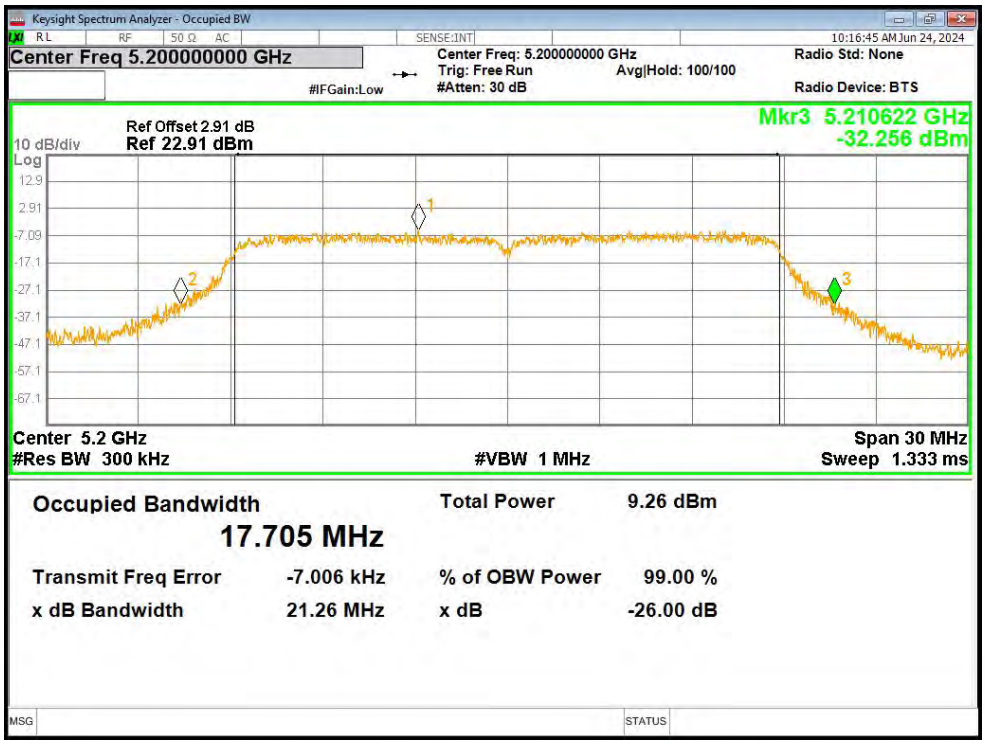
-26dB Bandwidth NVNT n40 5230MHz Ant2



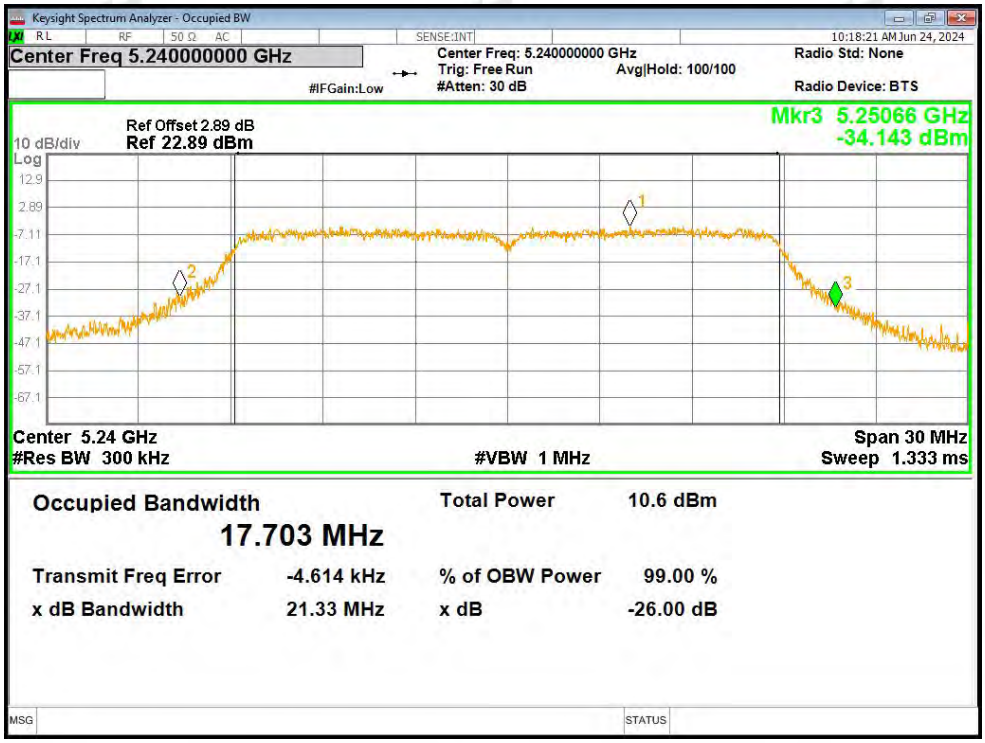
-26dB Bandwidth NVNT ac20 5180MHz Ant1



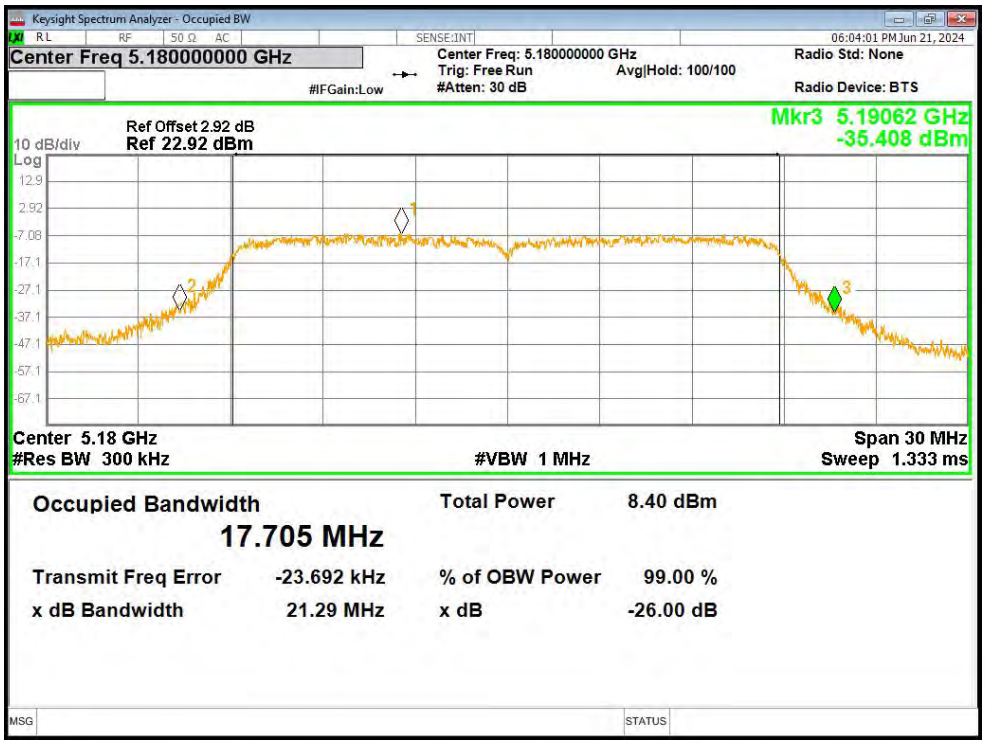
-26dB Bandwidth NVNT ac20 5200MHz Ant1



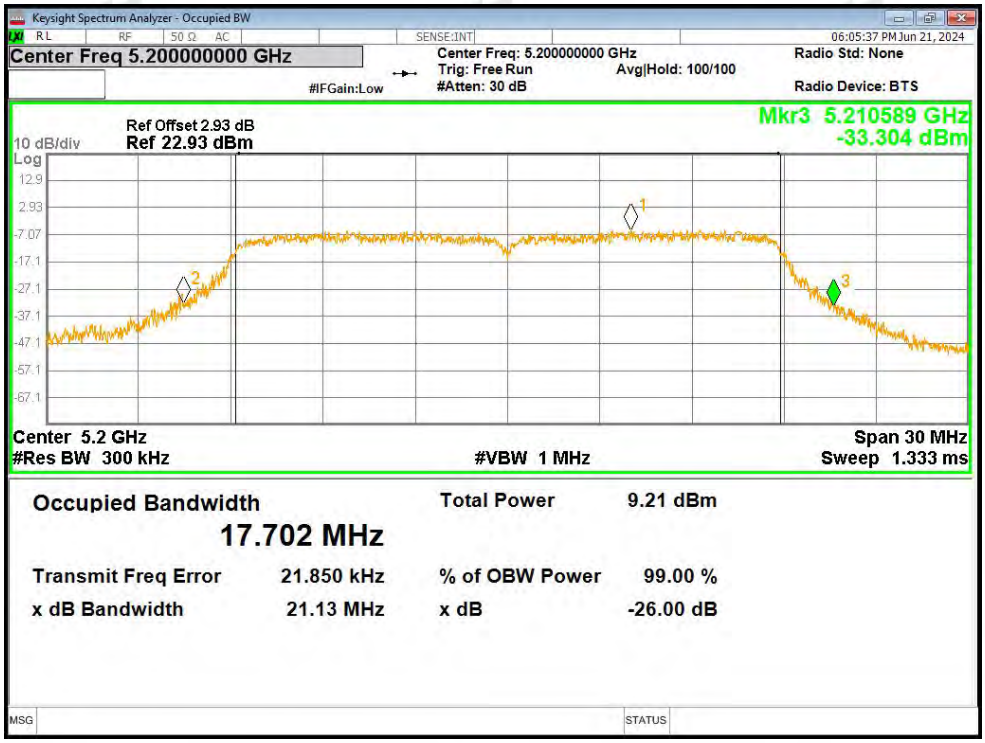
-26dB Bandwidth NVNT ac20 5240MHz Ant1



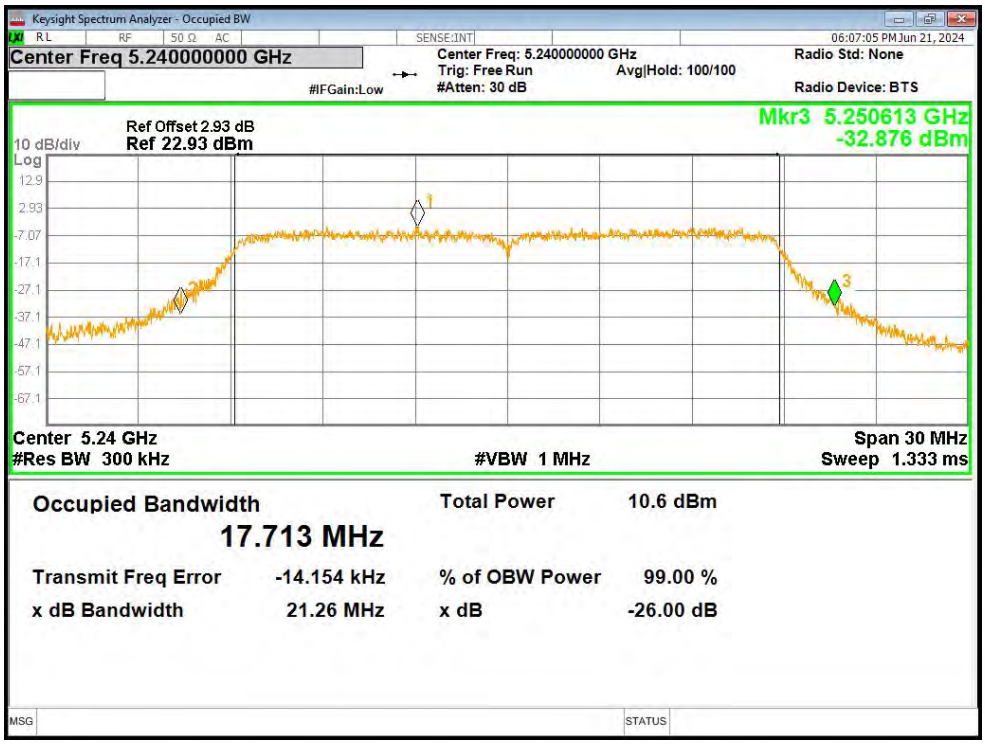
-26dB Bandwidth NVNT ac20 5180MHz Ant2



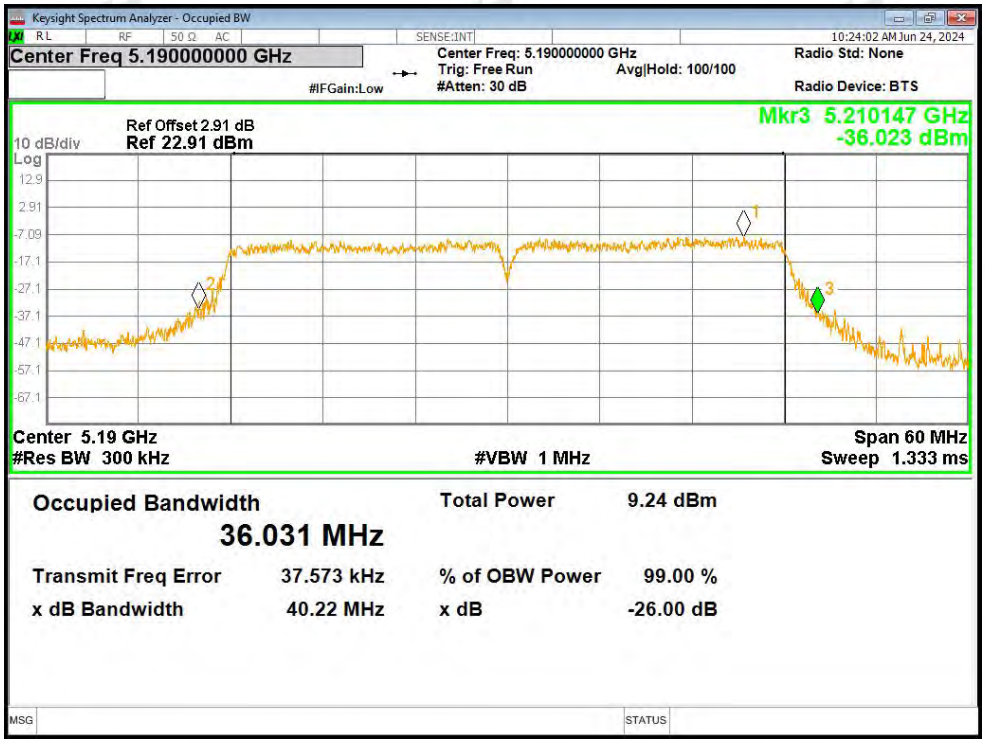
-26dB Bandwidth NVNT ac20 5200MHz Ant2



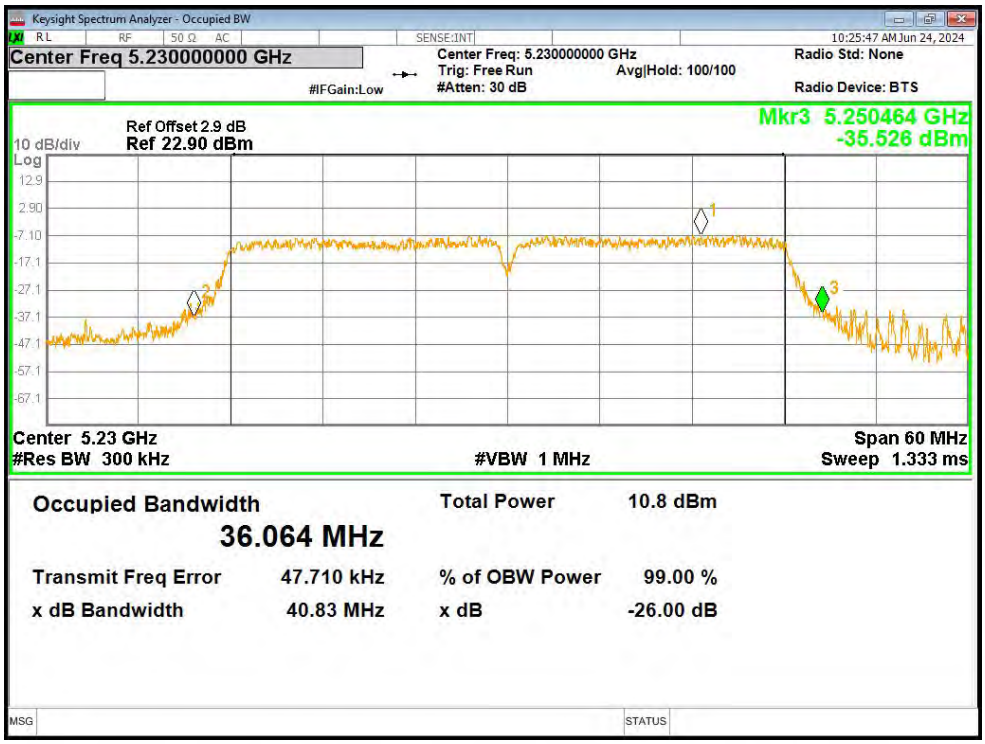
-26dB Bandwidth NVNT ac20 5240MHz Ant2



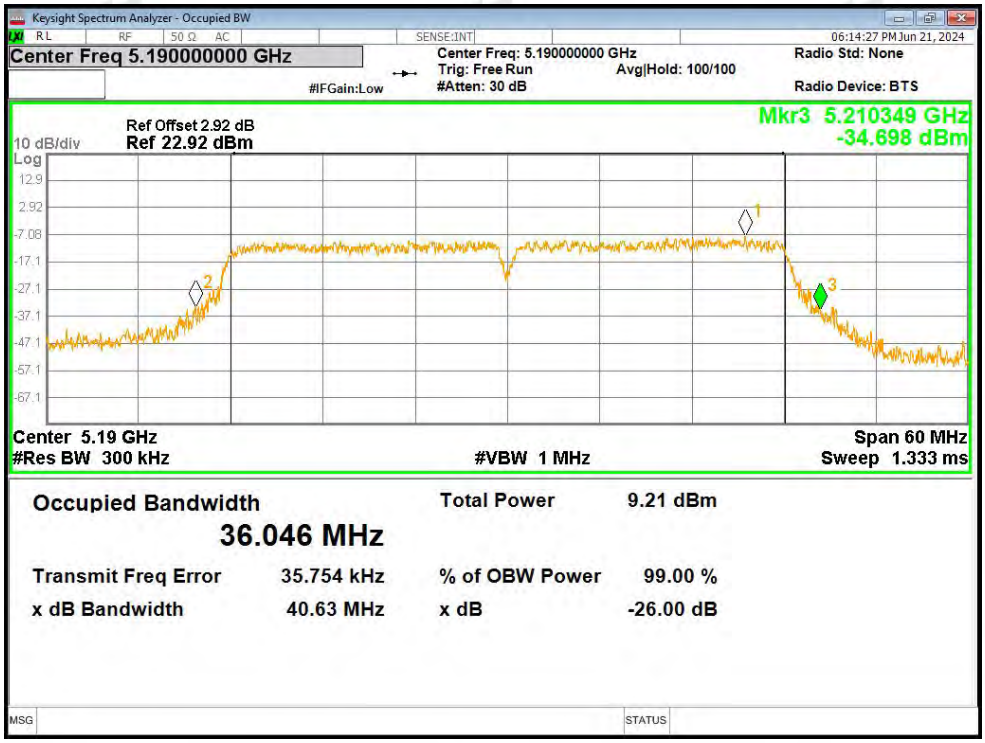
-26dB Bandwidth NVNT ac40 5190MHz Ant1



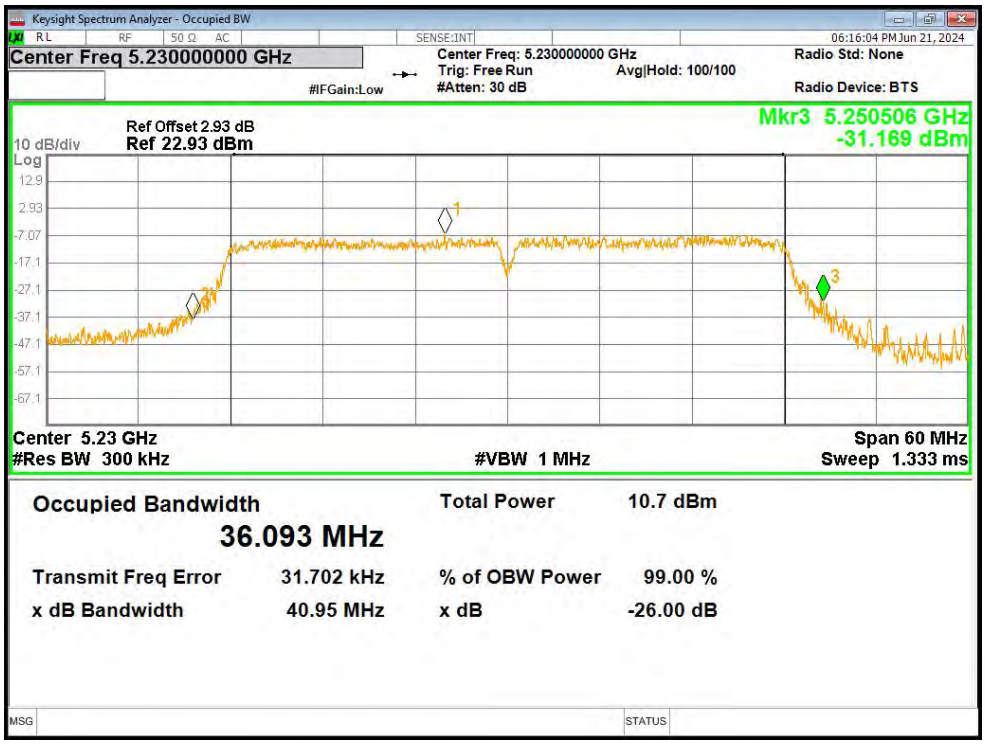
-26dB Bandwidth NVNT ac40 5230MHz Ant1



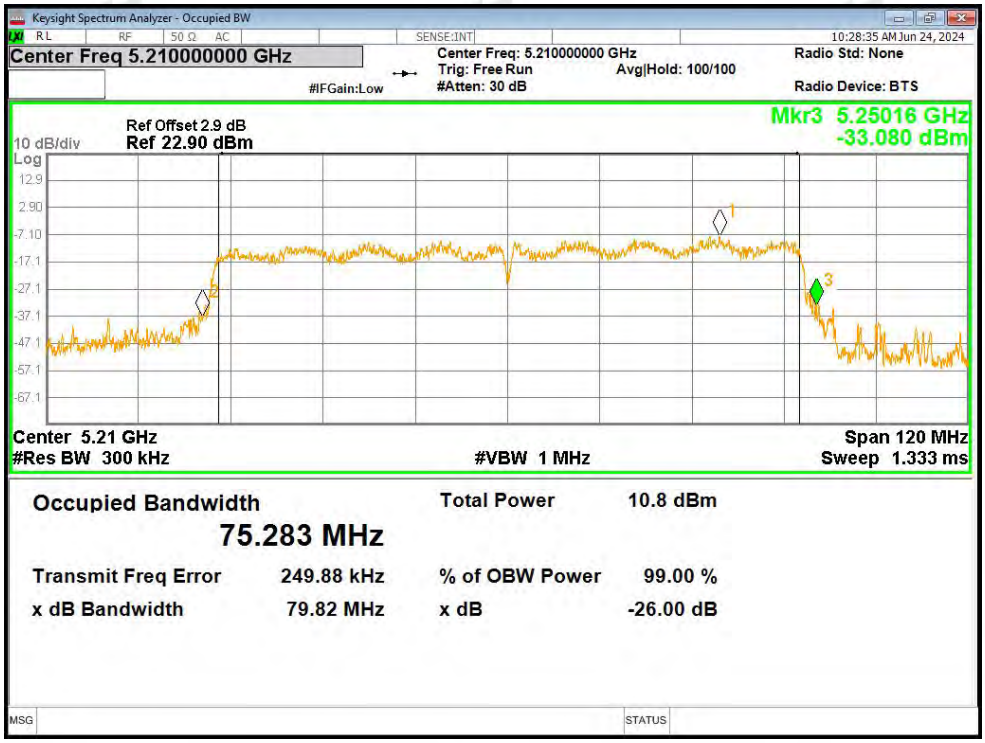
-26dB Bandwidth NVNT ac40 5190MHz Ant2



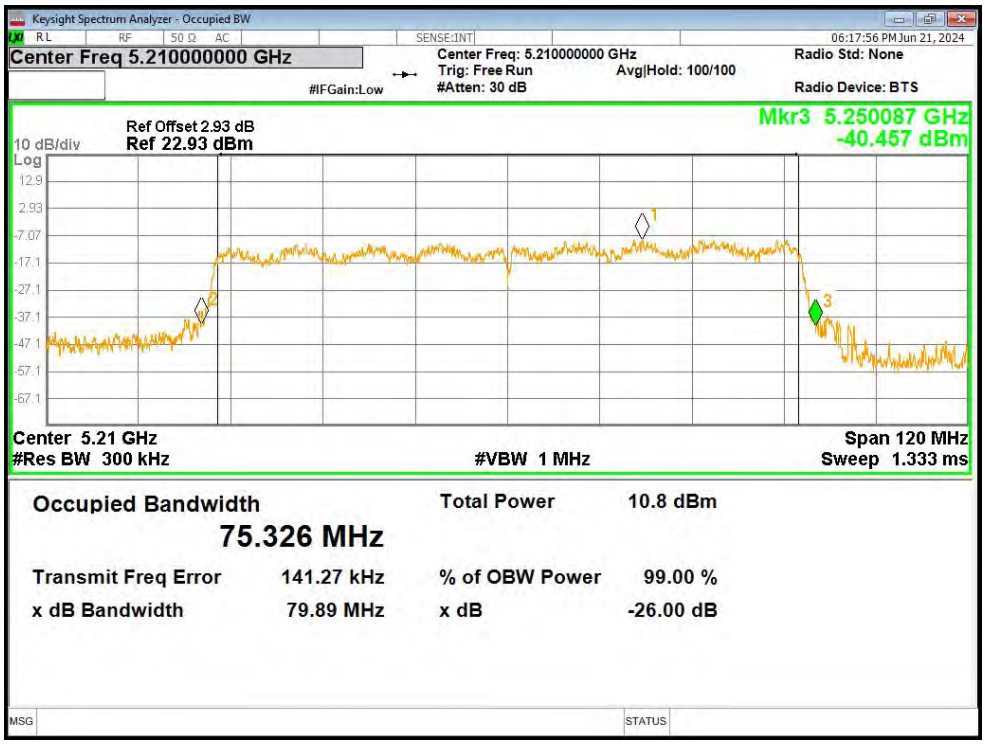
-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant2

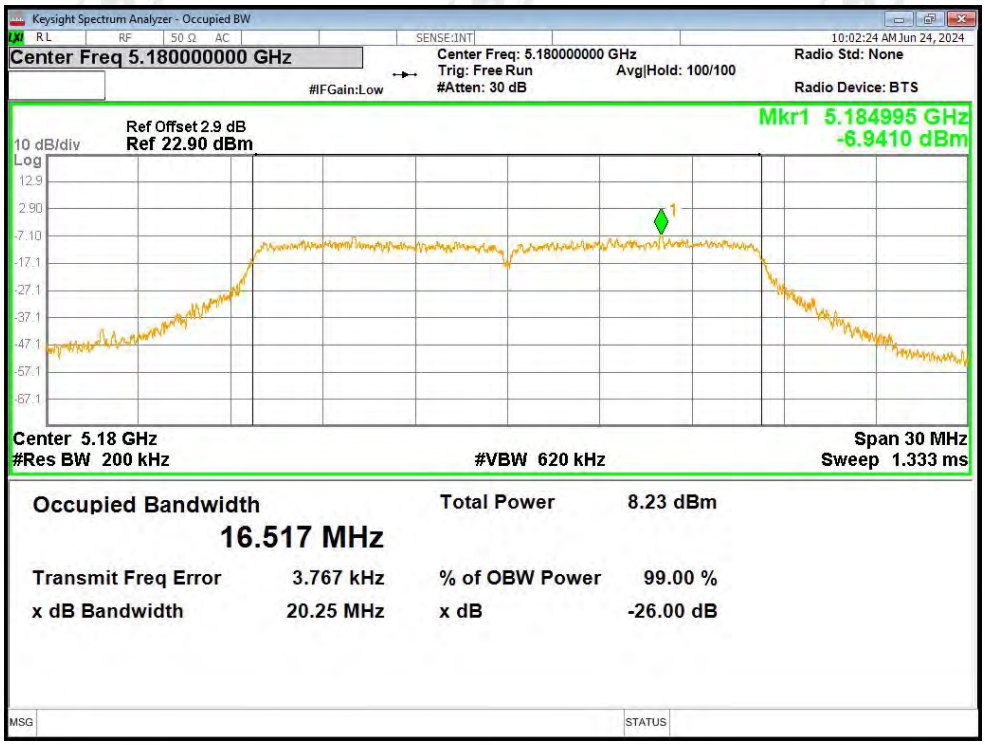


A4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.517
NVNT	a	5200	Ant1	16.507
NVNT	a	5240	Ant1	16.501
NVNT	a	5180	Ant2	16.509
NVNT	a	5200	Ant2	16.498
NVNT	a	5240	Ant2	16.506
NVNT	n20	5180	Ant1	17.616
NVNT	n20	5200	Ant1	17.605
NVNT	n20	5240	Ant1	17.615
NVNT	n20	5180	Ant2	17.622
NVNT	n20	5200	Ant2	17.625
NVNT	n20	5240	Ant2	17.612
NVNT	n40	5190	Ant1	36.155
NVNT	n40	5230	Ant1	36.106
NVNT	n40	5190	Ant2	36.147
NVNT	n40	5230	Ant2	36.119
NVNT	ac20	5180	Ant1	17.632
NVNT	ac20	5200	Ant1	17.617
NVNT	ac20	5240	Ant1	17.622
NVNT	ac20	5180	Ant2	17.627
NVNT	ac20	5200	Ant2	17.598
NVNT	ac20	5240	Ant2	17.636
NVNT	ac40	5190	Ant1	36.104
NVNT	ac40	5230	Ant1	36.153
NVNT	ac40	5190	Ant2	36.145
NVNT	ac40	5230	Ant2	36.112
NVNT	ac80	5210	Ant1	75.408
NVNT	ac80	5210	Ant2	75.453

Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1