

Appendix B for 5GWIFI Test Data

Product Name: Laptop computer

Test Model: N16

Environmental Conditions

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

**B1. Duty Cycle**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	95.81	0.19
NVNT	a	5200	Ant1	98.1	0
NVNT	a	5240	Ant1	94.95	0.23
NVNT	a	5180	Ant2	91.96	0.36
NVNT	a	5200	Ant2	92.41	0.34
NVNT	a	5240	Ant2	93.64	0.29
NVNT	n20	5180	Ant1	94.58	0.24
NVNT	n20	5200	Ant1	93.17	0.31
NVNT	n20	5240	Ant1	92.31	0.35
NVNT	n20	5180	Ant2	96	0.18
NVNT	n20	5200	Ant2	91.87	0.37
NVNT	n20	5240	Ant2	93.66	0.28
NVNT	n40	5190	Ant1	98.1	0
NVNT	n40	5230	Ant1	86.24	0.64
NVNT	n40	5190	Ant2	92.08	0.36
NVNT	n40	5230	Ant2	98.1	0
NVNT	ac20	5180	Ant1	93.24	0.3
NVNT	ac20	5200	Ant1	94.15	0.26
NVNT	ac20	5240	Ant1	97	0.13
NVNT	ac20	5180	Ant2	92.34	0.35
NVNT	ac20	5200	Ant2	92.34	0.35
NVNT	ac20	5240	Ant2	92.34	0.35
NVNT	ac40	5190	Ant1	93	0.32
NVNT	ac40	5230	Ant1	91.35	0.39
NVNT	ac40	5190	Ant2	84.68	0.72
NVNT	ac40	5230	Ant2	87.85	0.56
NVNT	ac80	5210	Ant1	86	0.66
NVNT	ac80	5210	Ant2	80.77	0.93
NVNT	ax20	5180	Ant1	97.47	0.11
NVNT	ax20	5200	Ant1	95.1	0.22
NVNT	ax20	5240	Ant1	94.15	0.26
NVNT	ax20	5180	Ant2	97.97	0.09
NVNT	ax20	5200	Ant2	97.97	0.09
NVNT	ax20	5240	Ant2	94.61	0.24
NVNT	ax40	5190	Ant1	92.23	0.35
NVNT	ax40	5230	Ant1	86.36	0.64
NVNT	ax40	5190	Ant2	85.59	0.68
NVNT	ax40	5230	Ant2	94.12	0.26
NVNT	ax80	5210	Ant1	75.41	1.23
NVNT	ax80	5210	Ant2	74.19	1.3

**ZHONGHAN****B2. Maximum Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.29	24	Pass
NVNT	a	5200	Ant1	-0.31	24	Pass
NVNT	a	5240	Ant1	0.05	24	Pass
NVNT	a	5180	Ant2	-2.03	24	Pass
NVNT	a	5200	Ant2	-1.83	24	Pass
NVNT	a	5240	Ant2	-1.26	24	Pass
NVNT	n20	5180	Ant1	-1.09	24	Pass
NVNT	n20	5200	Ant1	-0.91	24	Pass
NVNT	n20	5240	Ant1	-0.48	24	Pass
NVNT	n20	5180	Ant2	-2.94	24	Pass
NVNT	n20	5200	Ant2	-2.63	24	Pass
NVNT	n20	5240	Ant2	-2.1	24	Pass
NVNT	n40	5190	Ant1	-2.16	24	Pass
NVNT	n40	5230	Ant1	-1.73	24	Pass
NVNT	n40	5190	Ant2	-4.01	24	Pass
NVNT	n40	5230	Ant2	-3.29	24	Pass
NVNT	ac20	5180	Ant1	-2.28	24	Pass
NVNT	ac20	5200	Ant1	-1.98	24	Pass
NVNT	ac20	5240	Ant1	-1.38	24	Pass
NVNT	ac20	5180	Ant2	-3.83	24	Pass
NVNT	ac20	5200	Ant2	-3.38	24	Pass
NVNT	ac20	5240	Ant2	-2.74	24	Pass
NVNT	ac40	5190	Ant1	-3.33	24	Pass
NVNT	ac40	5230	Ant1	-2.89	24	Pass
NVNT	ac40	5190	Ant2	-5.22	24	Pass
NVNT	ac40	5230	Ant2	-4.44	24	Pass
NVNT	ac80	5210	Ant1	-3.69	24	Pass
NVNT	ac80	5210	Ant2	-5.87	24	Pass
NVNT	ax20	5180	Ant1	0.55	24	Pass
NVNT	ax20	5200	Ant1	0.33	24	Pass
NVNT	ax20	5240	Ant1	-0.39	24	Pass
NVNT	ax20	5180	Ant2	0.44	24	Pass
NVNT	ax20	5200	Ant2	0.39	24	Pass
NVNT	ax20	5240	Ant2	-0.35	24	Pass
NVNT	ax40	5190	Ant1	0.24	24	Pass
NVNT	ax40	5230	Ant1	-0.38	24	Pass
NVNT	ax40	5190	Ant2	0.26	24	Pass
NVNT	ax40	5230	Ant2	-0.37	24	Pass



ZHONGHAN

NVNT	ax80	5210	Ant1	0.24	24	Pass
NVNT	ax80	5210	Ant2	0.34	24	Pass
NVNT	n20	5180	Ant1	1.09	24	Pass
NVNT	n20	5200	MIMO	1.32	24	Pass
NVNT	n20	5240	MIMO	1.80	24	Pass
NVNT	n40	5190	MIMO	0.02	24	Pass
NVNT	n40	5230	MIMO	0.57	24	Pass
NVNT	ac20	5180	MIMO	0.02	24	Pass
NVNT	ac20	5200	MIMO	0.39	24	Pass
NVNT	ac20	5240	MIMO	1.00	24	Pass
NVNT	ac40	5190	MIMO	-1.16	24	Pass
NVNT	ac40	5230	MIMO	-0.59	24	Pass
NVNT	ac80	5210	MIMO	-1.63	24	Pass
NVNT	ax20	5180	MIMO	-1.63	24	Pass
NVNT	ax20	5200	MIMO	3.37	24	Pass
NVNT	ax20	5240	MIMO	2.64	24	Pass
NVNT	ax40	5190	MIMO	3.26	24	Pass
NVNT	ax40	5230	MIMO	2.64	24	Pass
NVNT	ax80	5210	MIMO	3.30	24	Pass

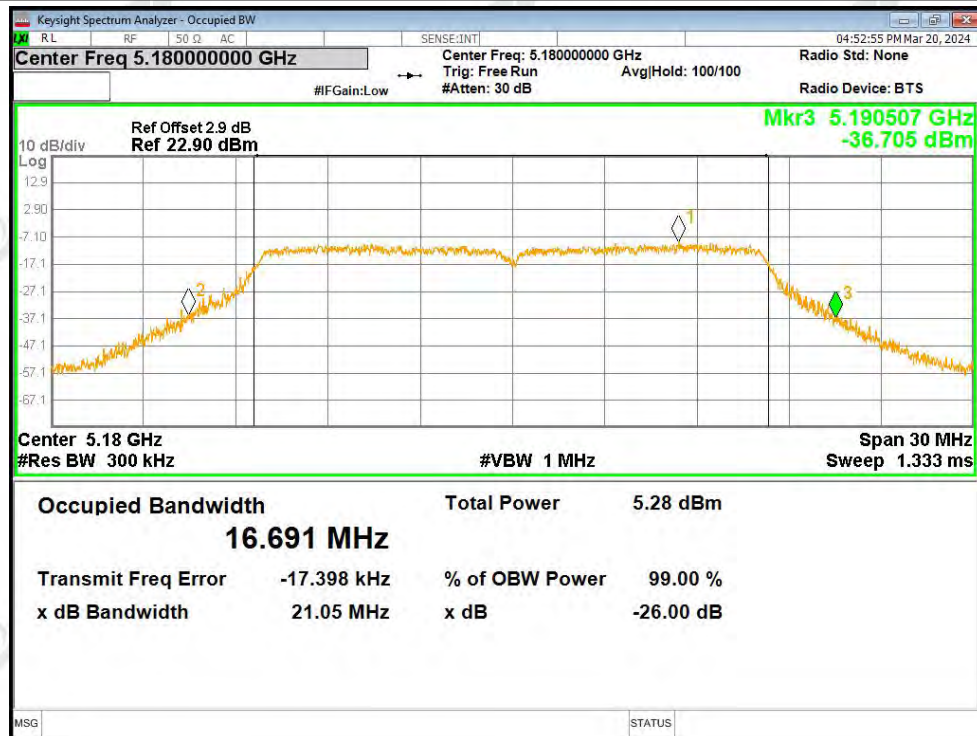
**ZHONGHAN****B3. -26dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.048	/	Pass
NVNT	a	5200	Ant1	20.908	/	Pass
NVNT	a	5240	Ant1	20.944	/	Pass
NVNT	a	5180	Ant2	21.307	/	Pass
NVNT	a	5200	Ant2	21.188	/	Pass
NVNT	a	5240	Ant2	20.907	/	Pass
NVNT	n20	5180	Ant1	21.349	/	Pass
NVNT	n20	5200	Ant1	21.35	/	Pass
NVNT	n20	5240	Ant1	21.381	/	Pass
NVNT	n20	5180	Ant2	21.208	/	Pass
NVNT	n20	5200	Ant2	21.709	/	Pass
NVNT	n20	5240	Ant2	21.647	/	Pass
NVNT	n40	5190	Ant1	40.808	/	Pass
NVNT	n40	5230	Ant1	41.054	/	Pass
NVNT	n40	5190	Ant2	40.94	/	Pass
NVNT	n40	5230	Ant2	40.851	/	Pass
NVNT	ac20	5180	Ant1	21.632	/	Pass
NVNT	ac20	5200	Ant1	21.443	/	Pass
NVNT	ac20	5240	Ant1	21.664	/	Pass
NVNT	ac20	5180	Ant2	21.887	/	Pass
NVNT	ac20	5200	Ant2	21.801	/	Pass
NVNT	ac20	5240	Ant2	22.212	/	Pass
NVNT	ac40	5190	Ant1	40.91	/	Pass
NVNT	ac40	5230	Ant1	40.8	/	Pass
NVNT	ac40	5190	Ant2	40.461	/	Pass
NVNT	ac40	5230	Ant2	40.804	/	Pass
NVNT	ac80	5210	Ant1	80.009	/	Pass
NVNT	ac80	5210	Ant2	79.713	/	Pass
NVNT	ax20	5180	Ant1	19.806	/	Pass
NVNT	ax20	5200	Ant1	20.217	/	Pass
NVNT	ax20	5240	Ant1	20.205	/	Pass
NVNT	ax20	5180	Ant2	20.121	/	Pass
NVNT	ax20	5200	Ant2	20.232	/	Pass
NVNT	ax20	5240	Ant2	20.237	/	Pass
NVNT	ax40	5190	Ant1	38.867	/	Pass
NVNT	ax40	5230	Ant1	38.987	/	Pass
NVNT	ax40	5190	Ant2	39.35	/	Pass
NVNT	ax40	5230	Ant2	39.329	/	Pass
NVNT	ax80	5210	Ant1	80.655	/	Pass
NVNT	ax80	5210	Ant2	80.877	/	Pass

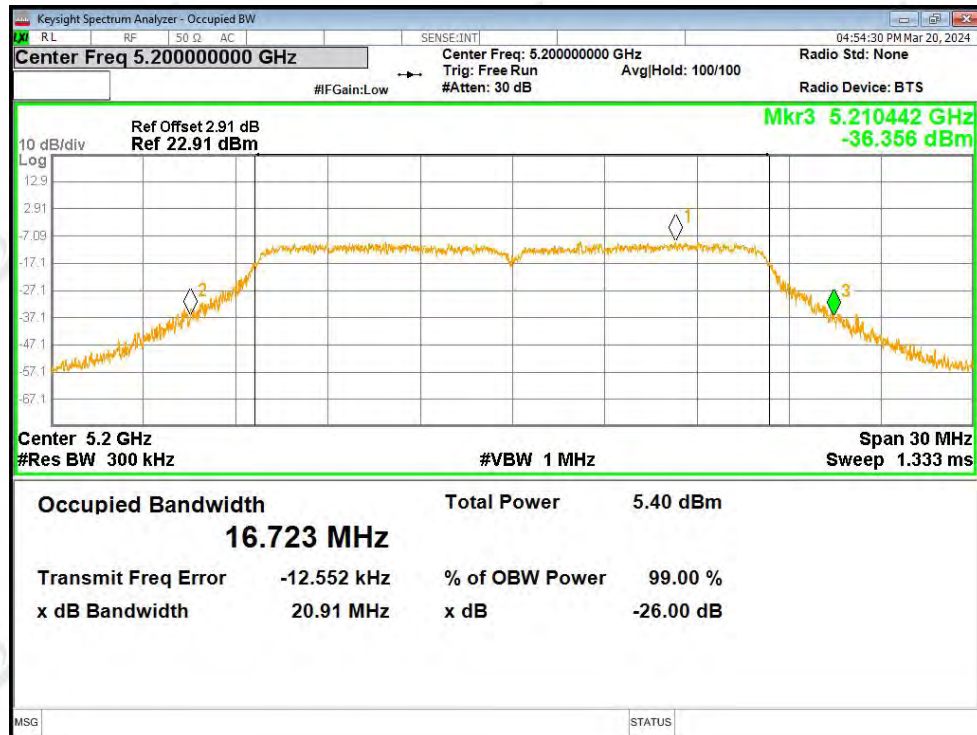


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

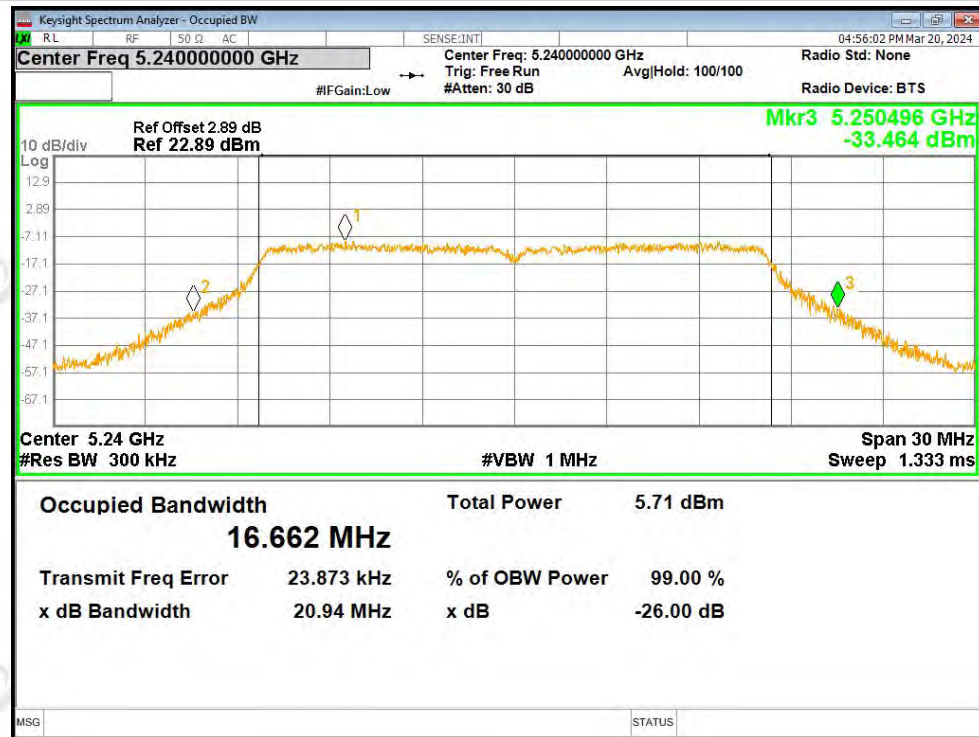


-26dB Bandwidth NVNT a 5200MHz Ant1

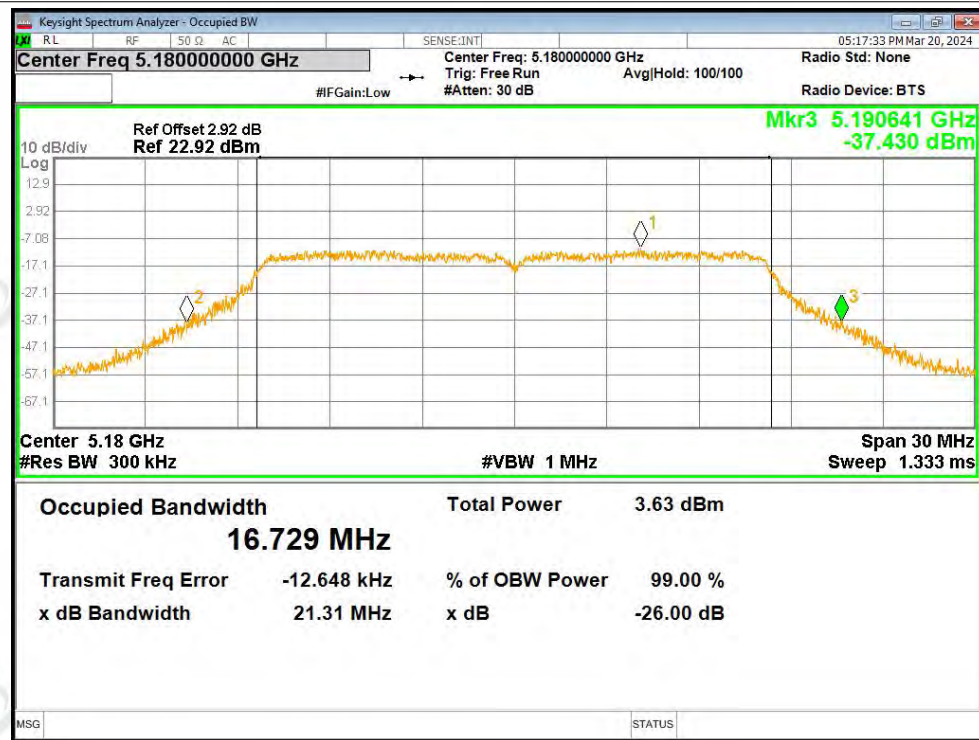




-26dB Bandwidth NVNT a 5240MHz Ant1

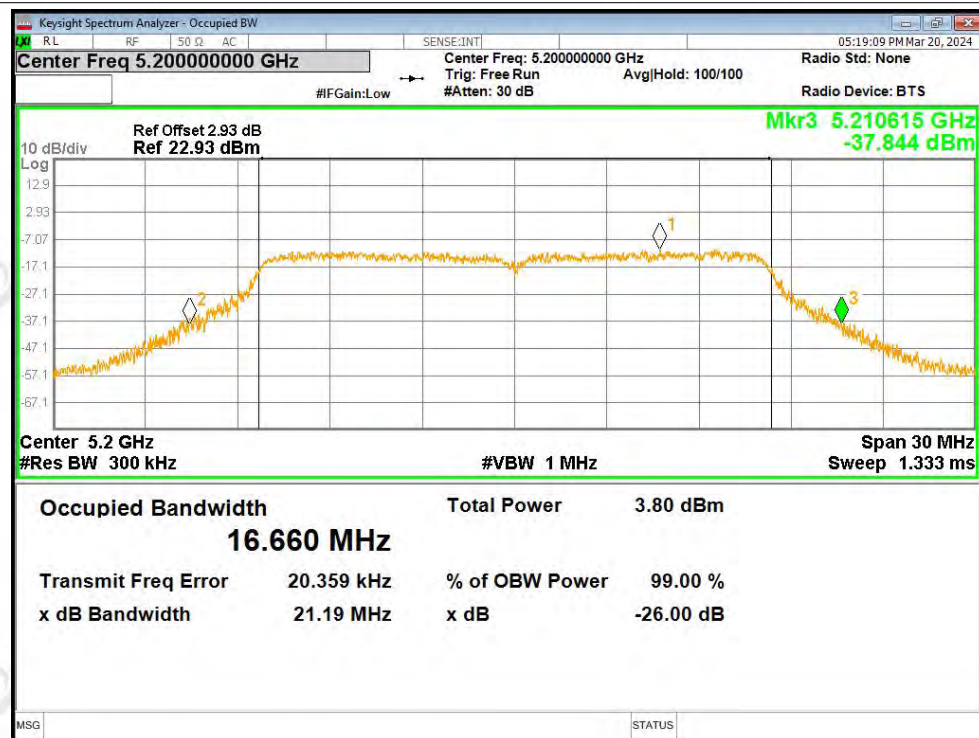


-26dB Bandwidth NVNT a 5180MHz Ant2

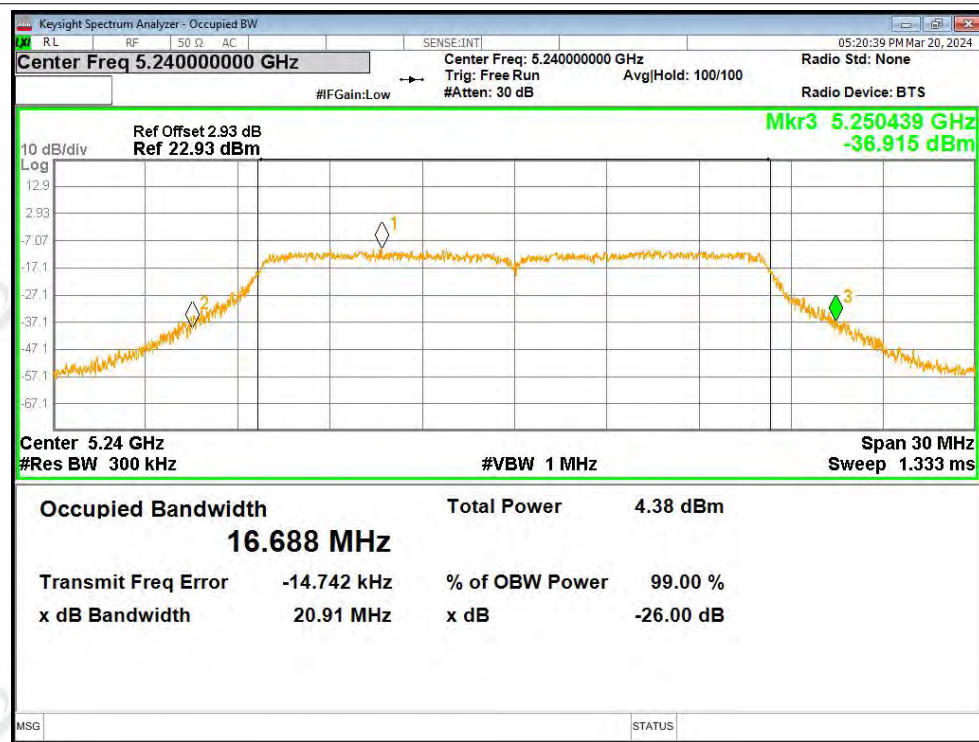




-26dB Bandwidth NVNT a 5200MHz Ant2

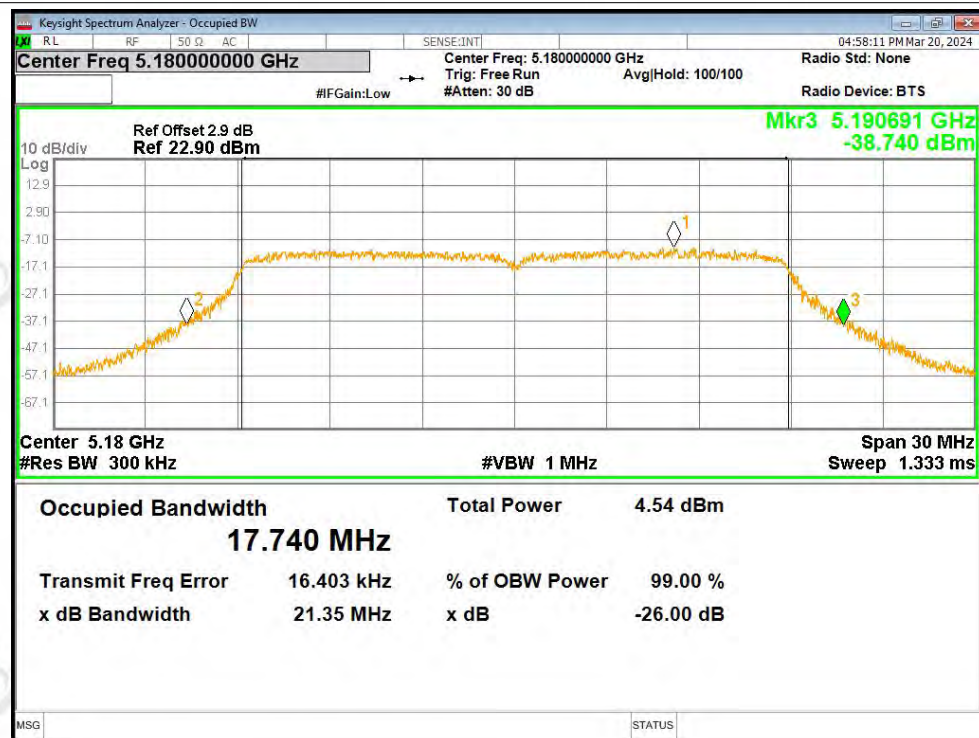


-26dB Bandwidth NVNT a 5240MHz Ant2

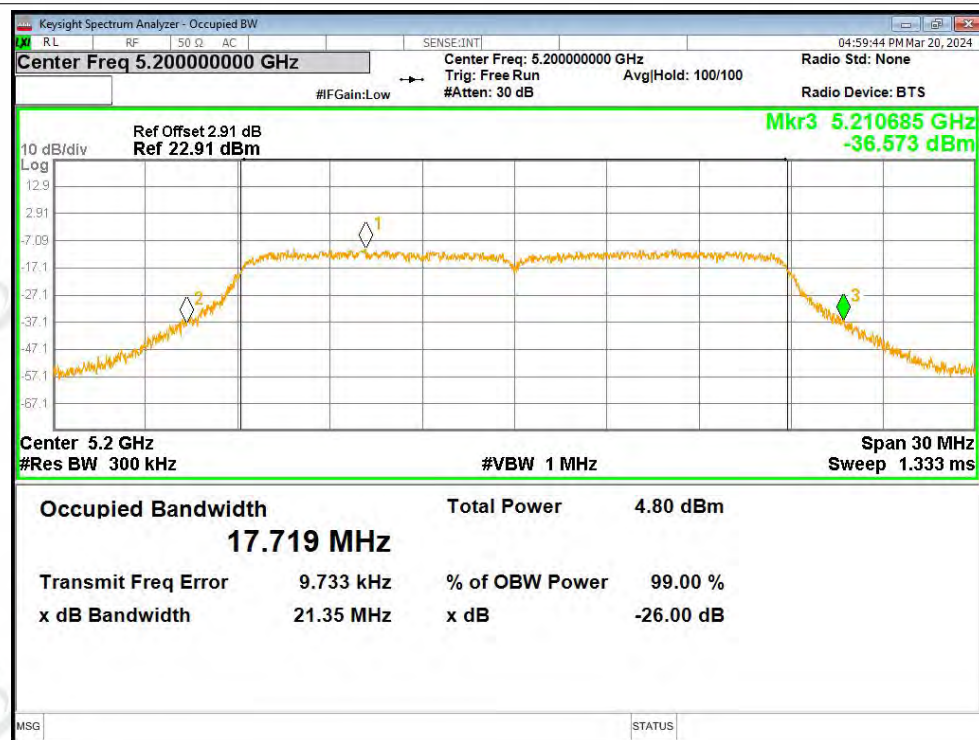




-26dB Bandwidth NVNT n20 5180MHz Ant1

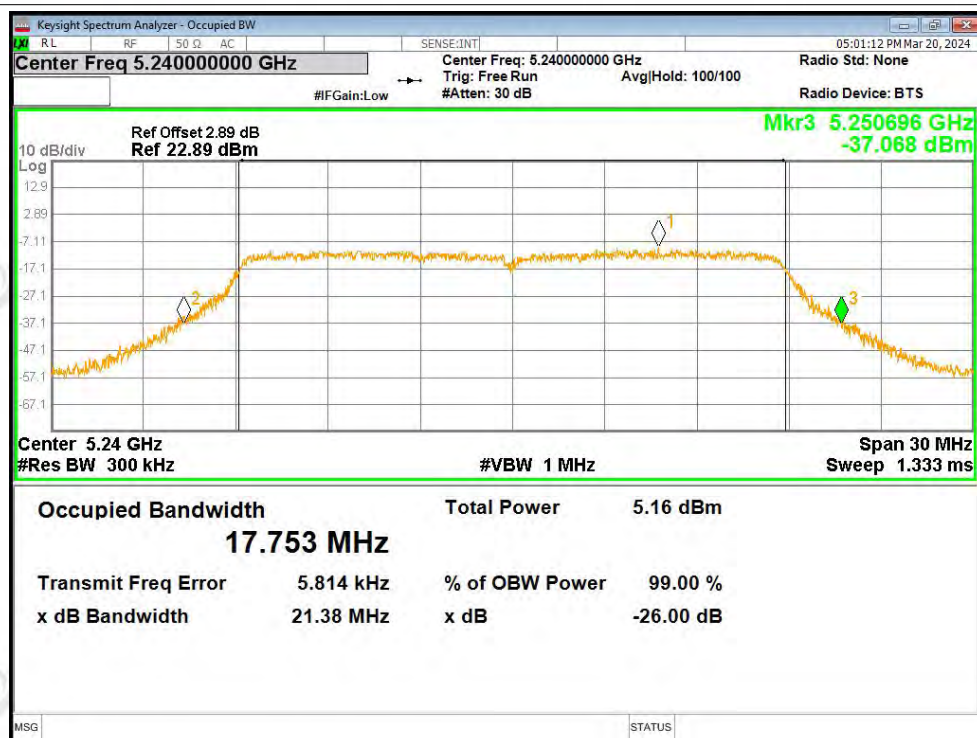


-26dB Bandwidth NVNT n20 5200MHz Ant1

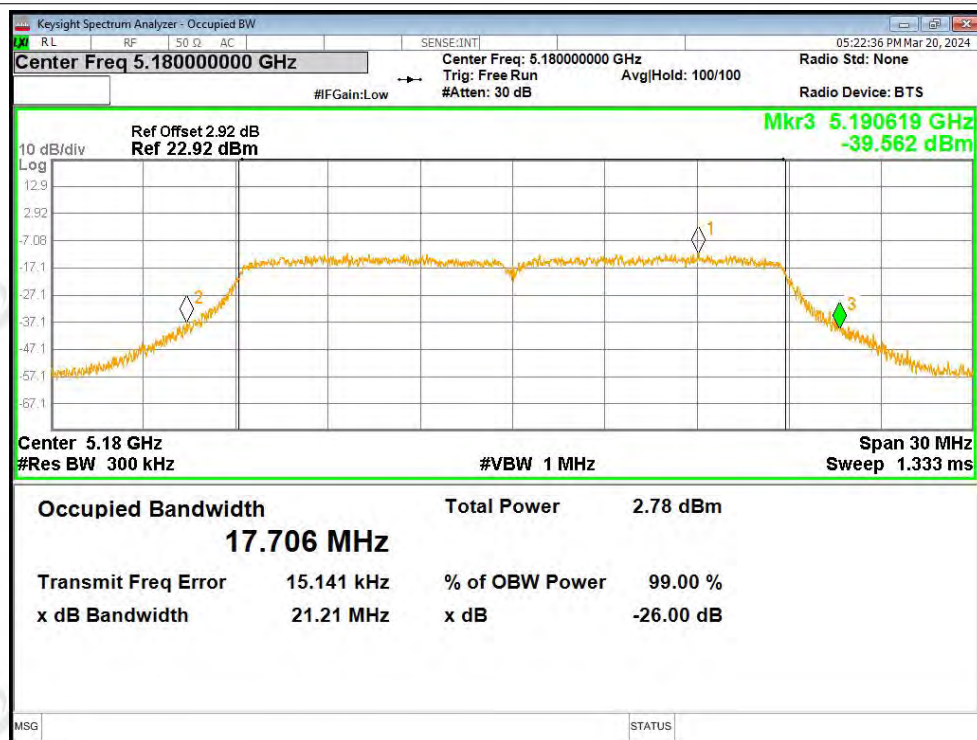




-26dB Bandwidth NVNT n20 5240MHz Ant1

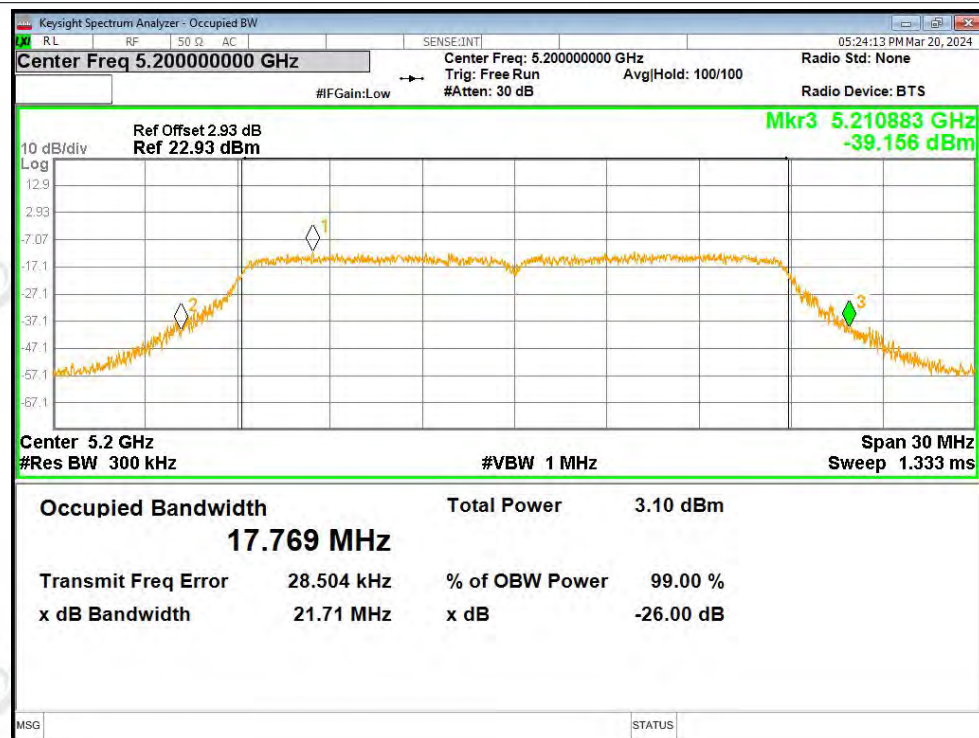


-26dB Bandwidth NVNT n20 5180MHz Ant2

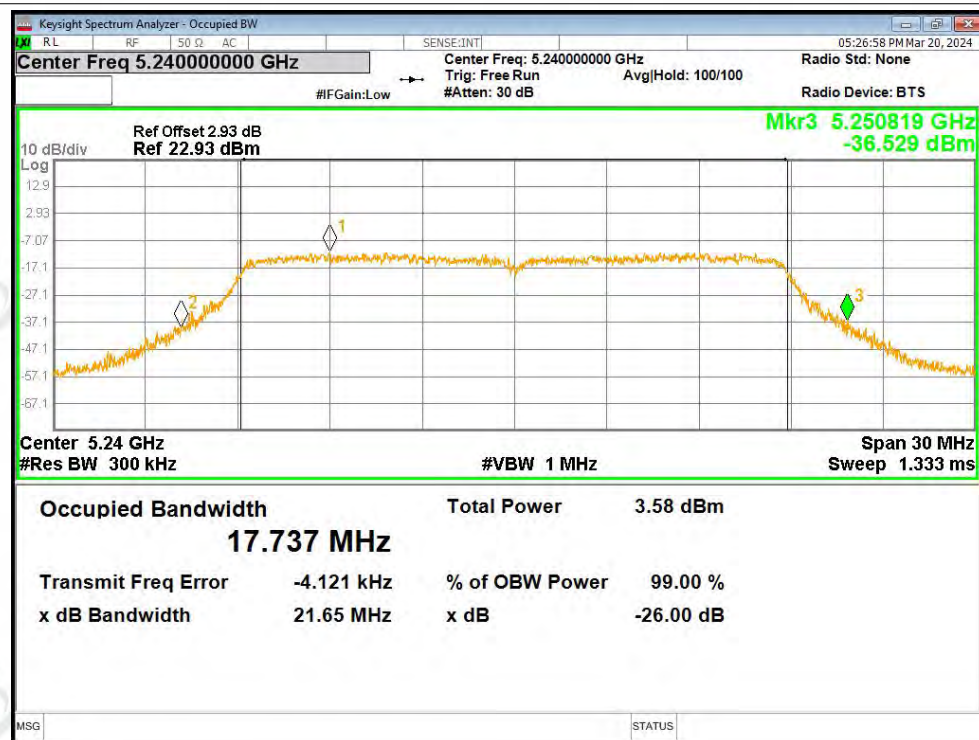


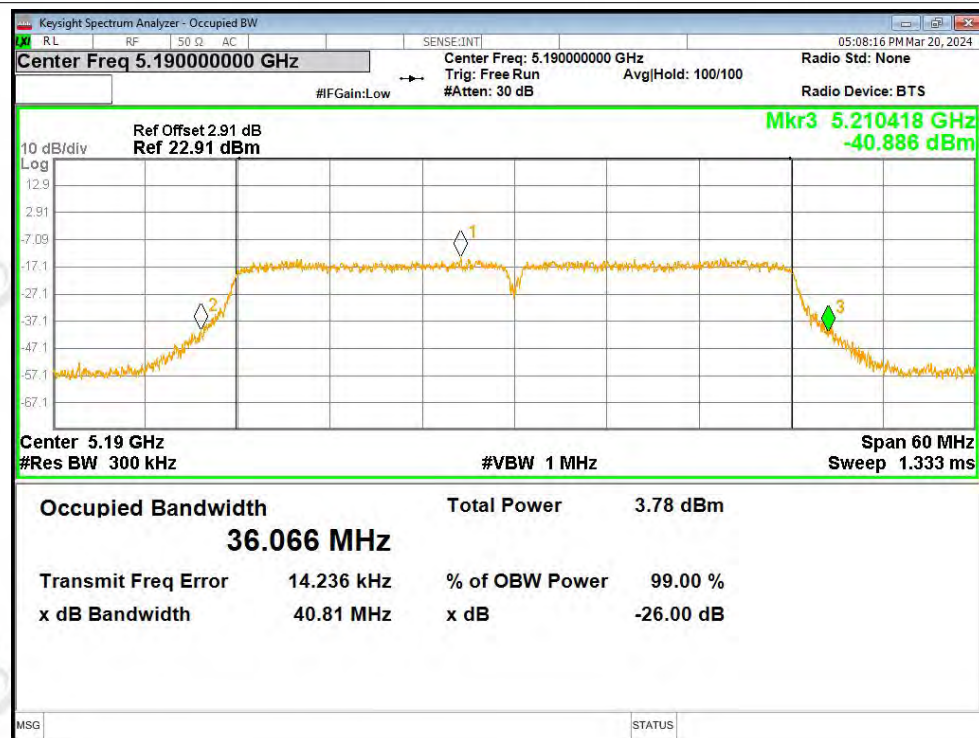
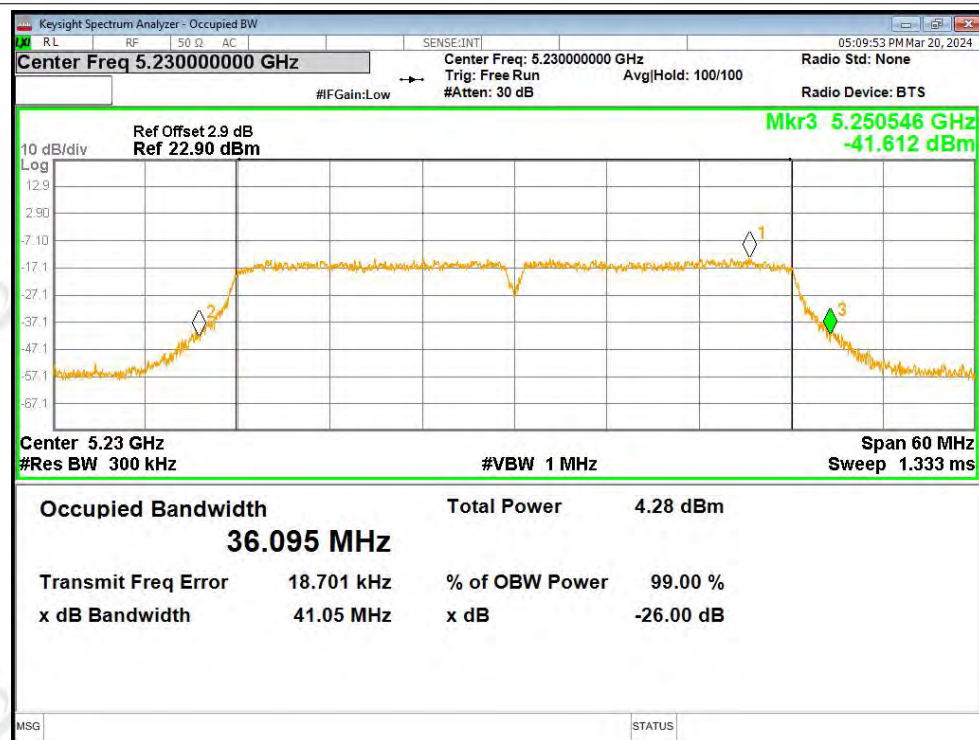


-26dB Bandwidth NVNT n20 5200MHz Ant2



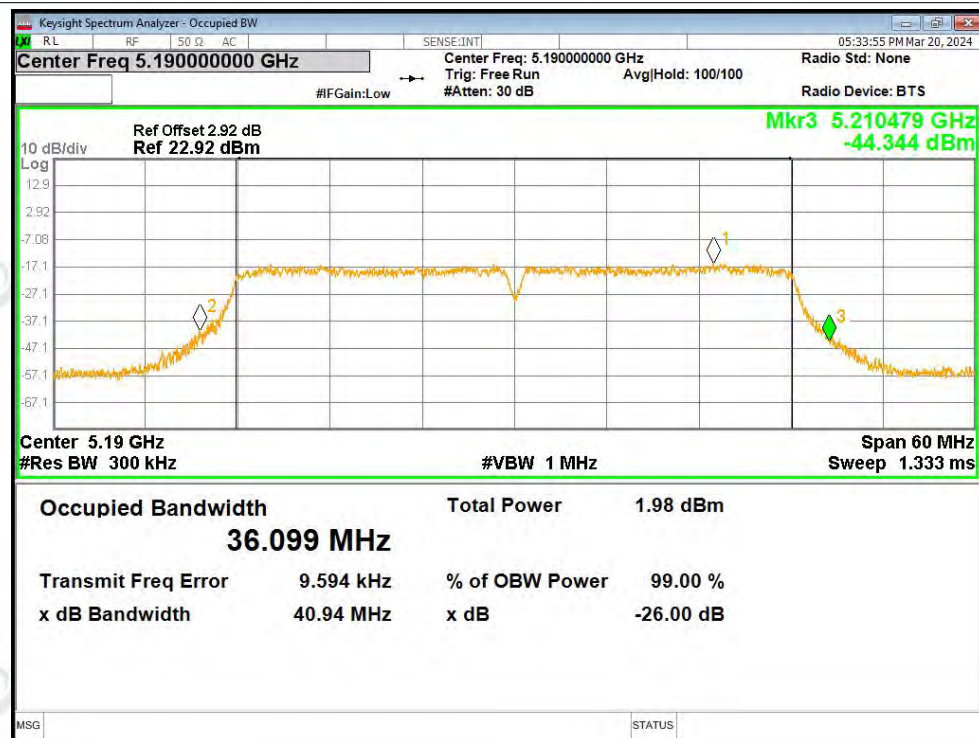
-26dB Bandwidth NVNT n20 5240MHz Ant2



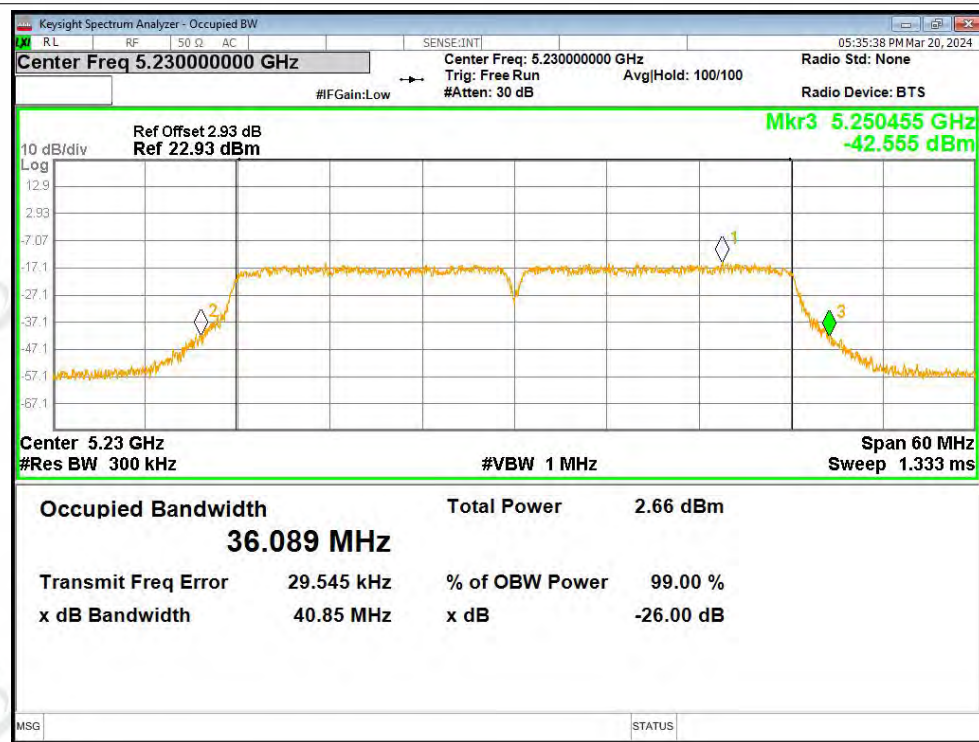
**-26dB Bandwidth NVNT n40 5190MHz Ant1****-26dB Bandwidth NVNT n40 5230MHz Ant1**



-26dB Bandwidth NVNT n40 5190MHz Ant2

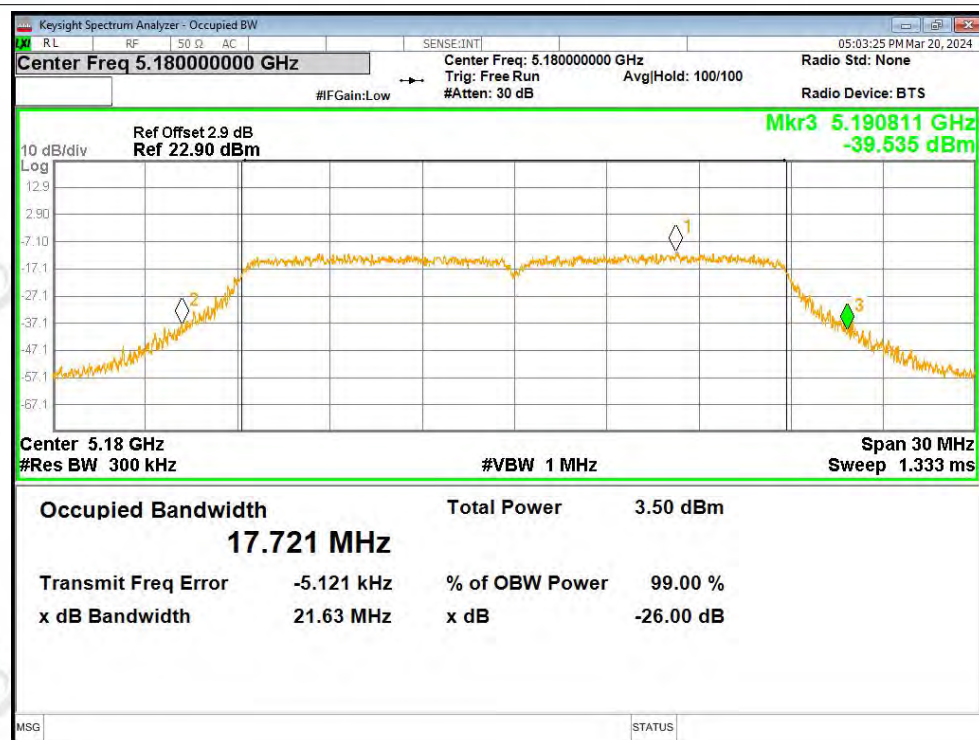


-26dB Bandwidth NVNT n40 5230MHz Ant2





-26dB Bandwidth NVNT ac20 5180MHz Ant1

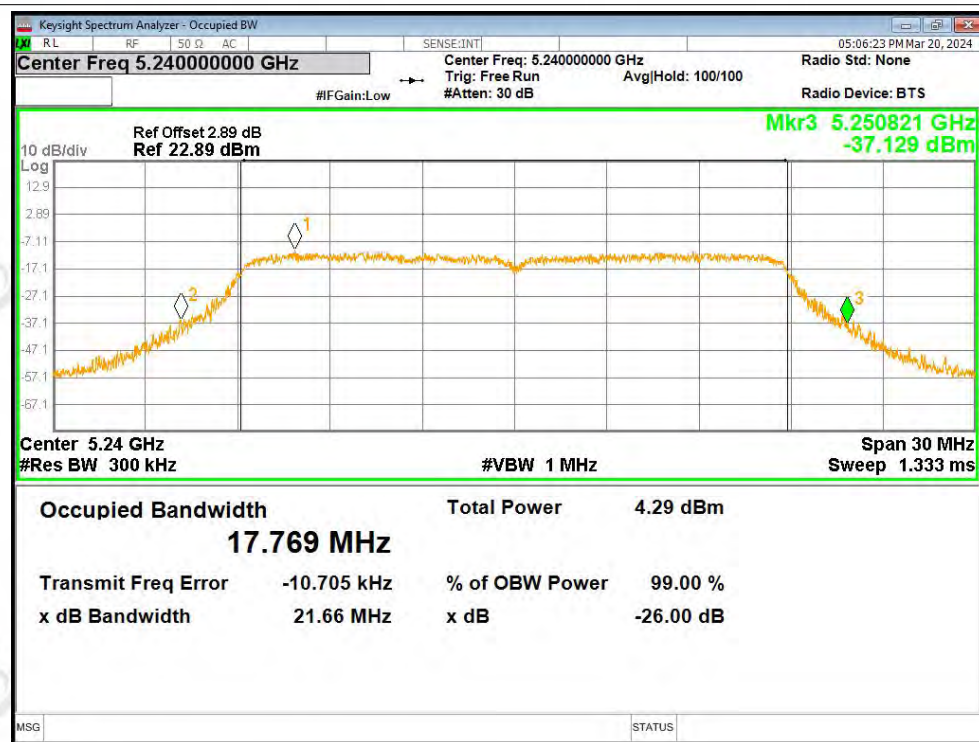


-26dB Bandwidth NVNT ac20 5200MHz Ant1

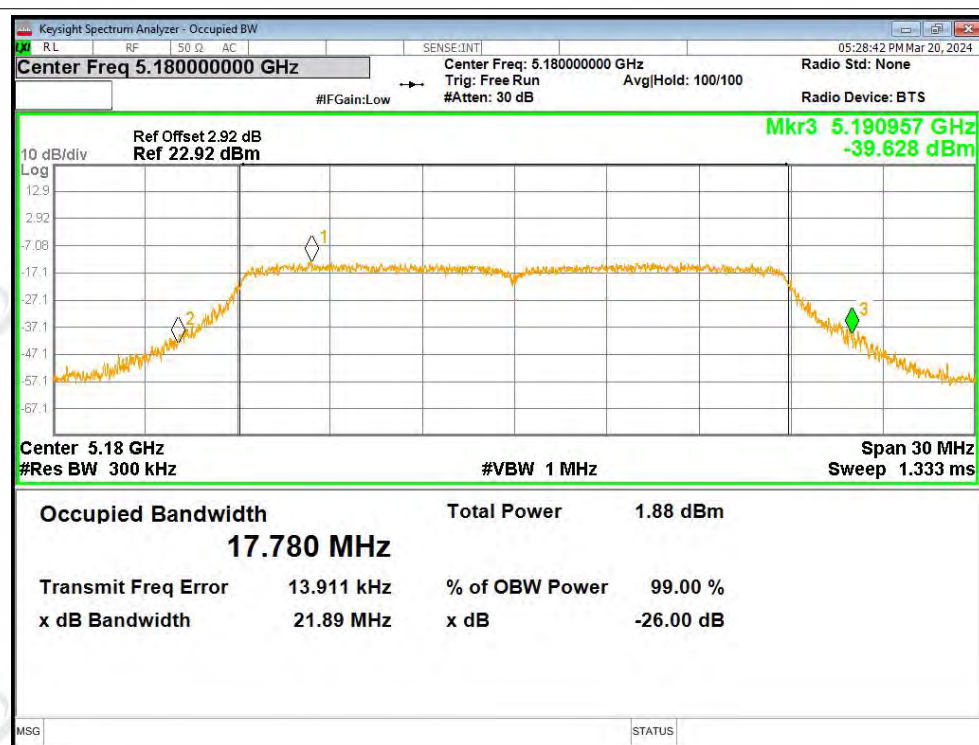




-26dB Bandwidth NVNT ac20 5240MHz Ant1

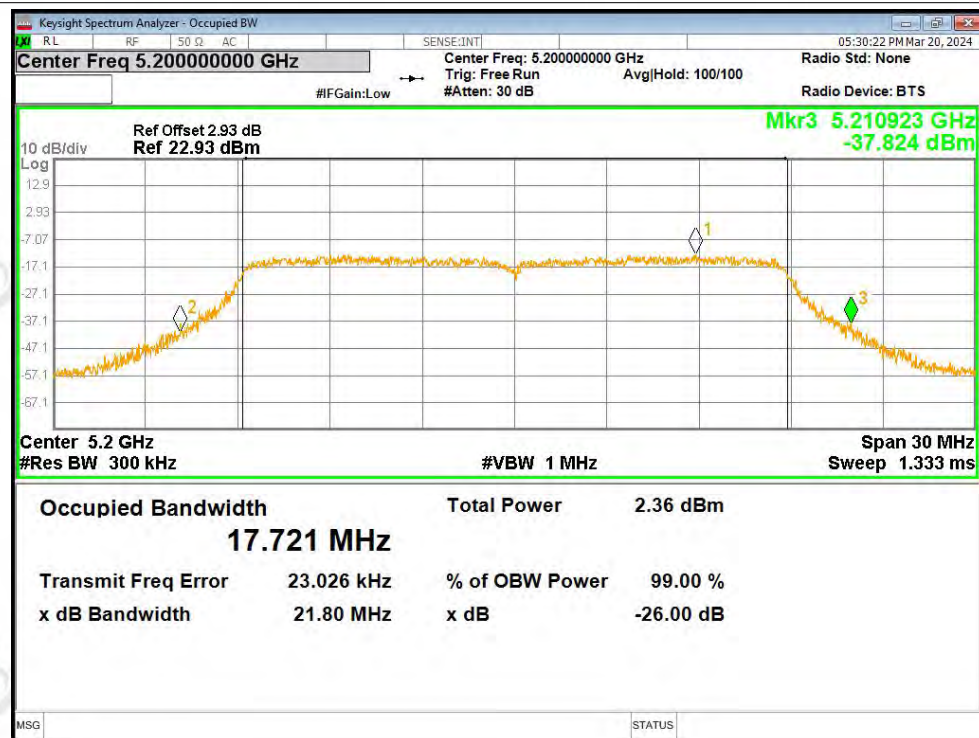


-26dB Bandwidth NVNT ac20 5180MHz Ant2

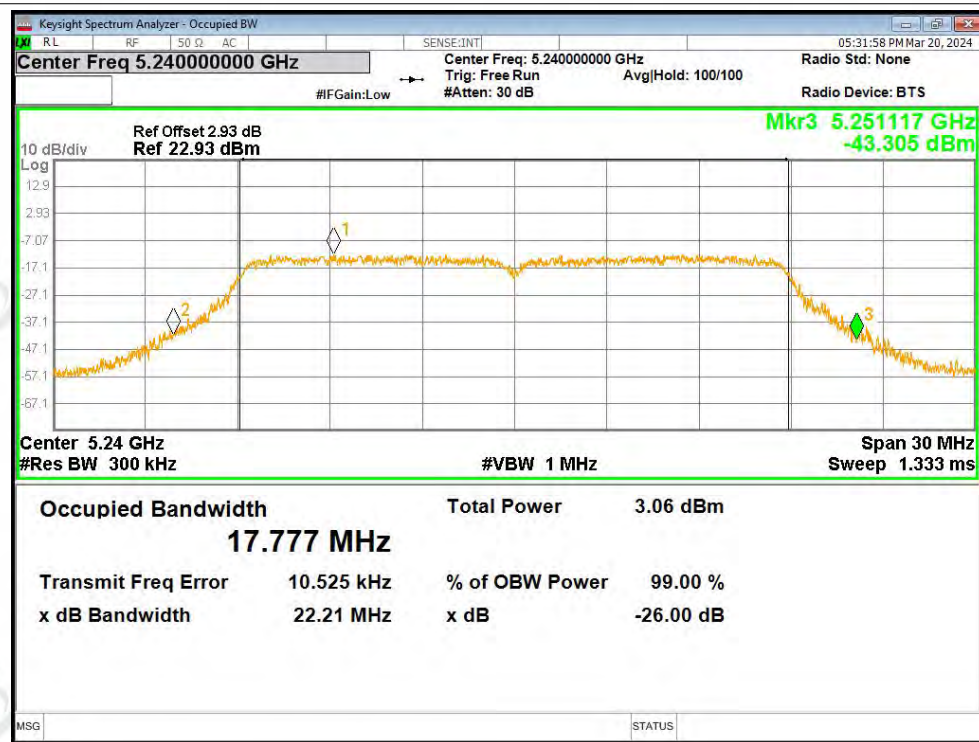




-26dB Bandwidth NVNT ac20 5200MHz Ant2

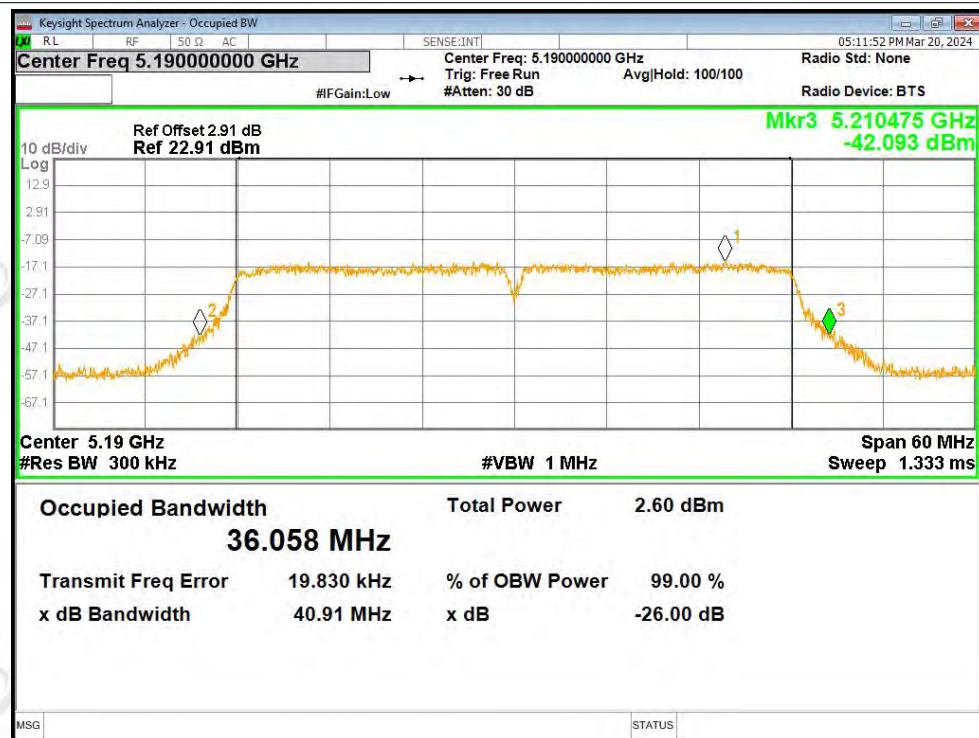


-26dB Bandwidth NVNT ac20 5240MHz Ant2

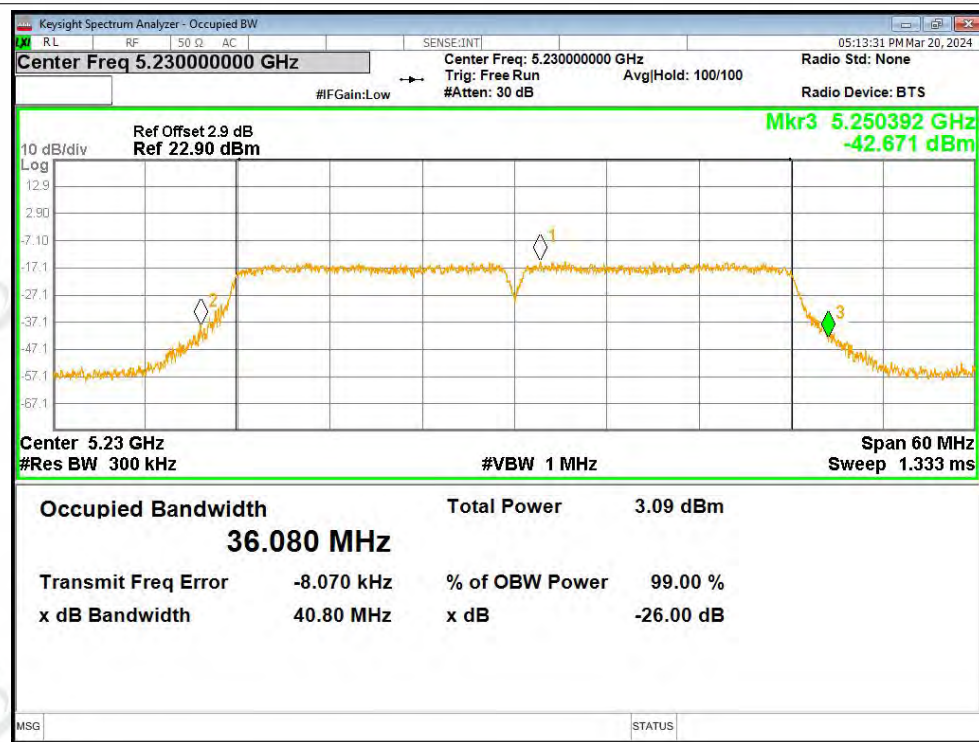


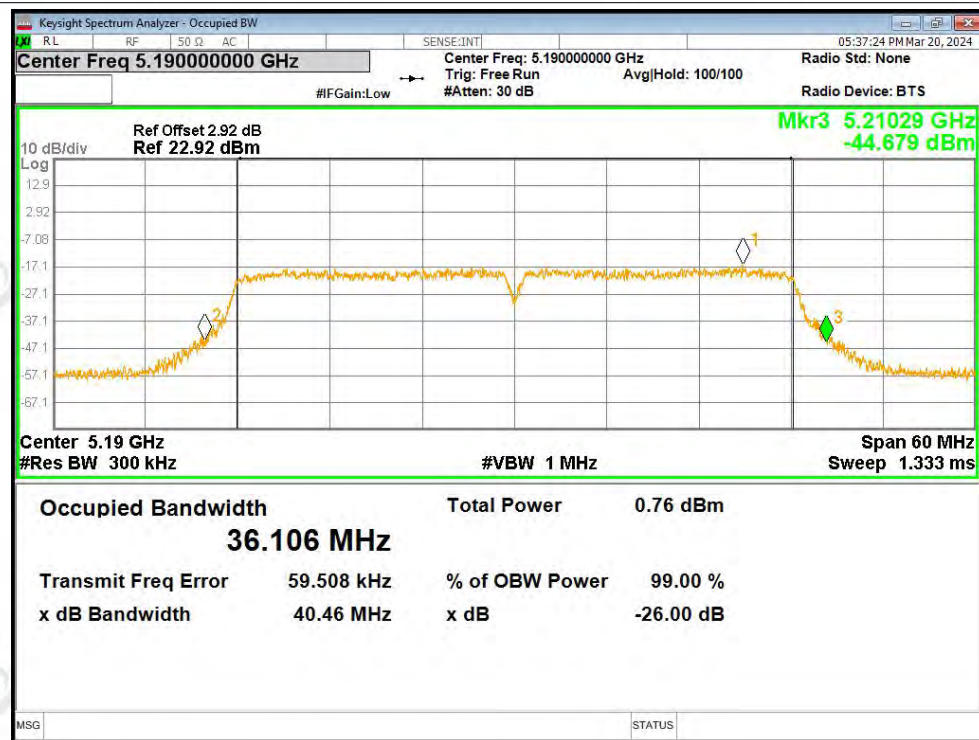
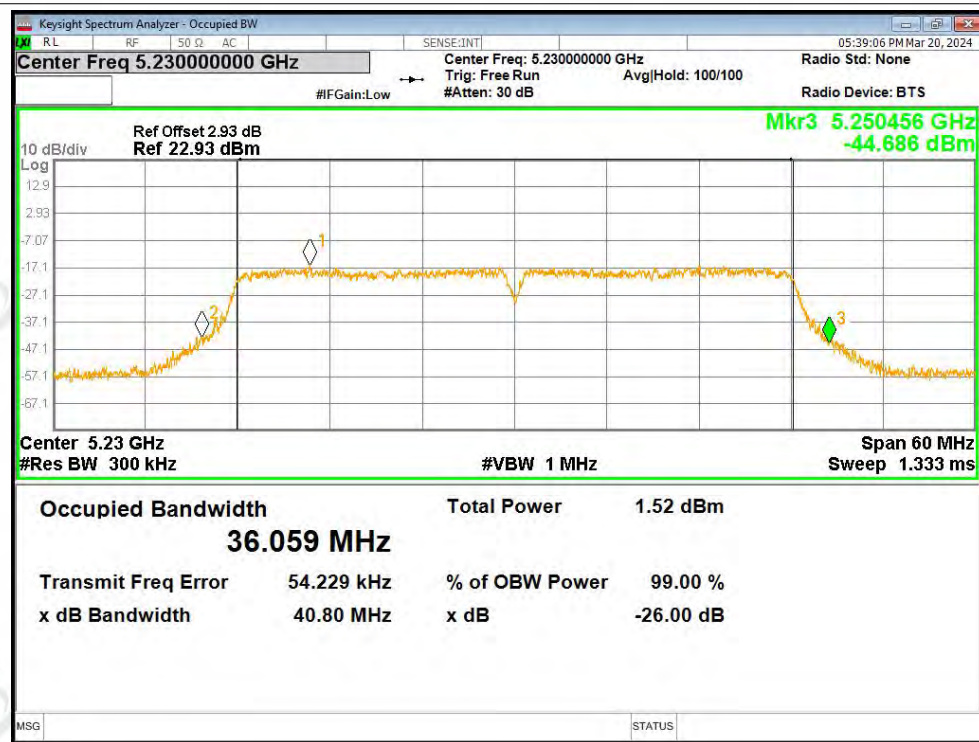


-26dB Bandwidth NVNT ac40 5190MHz Ant1



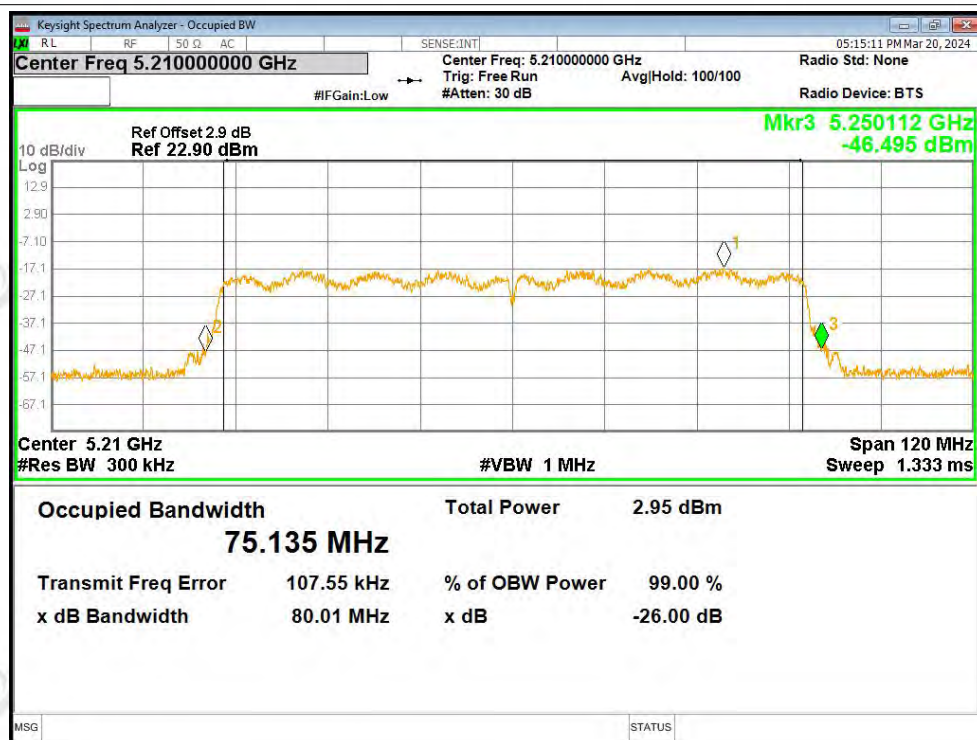
-26dB Bandwidth NVNT ac40 5230MHz Ant1



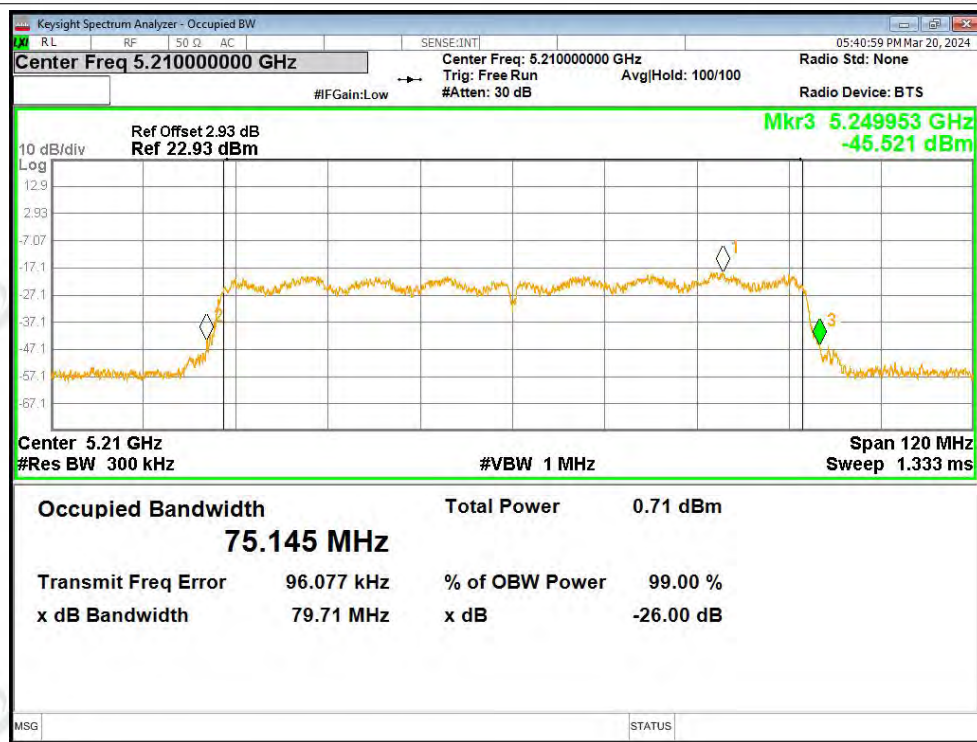
**-26dB Bandwidth NVNT ac40 5190MHz Ant2****-26dB Bandwidth NVNT ac40 5230MHz Ant2**



-26dB Bandwidth NVNT ac80 5210MHz Ant1

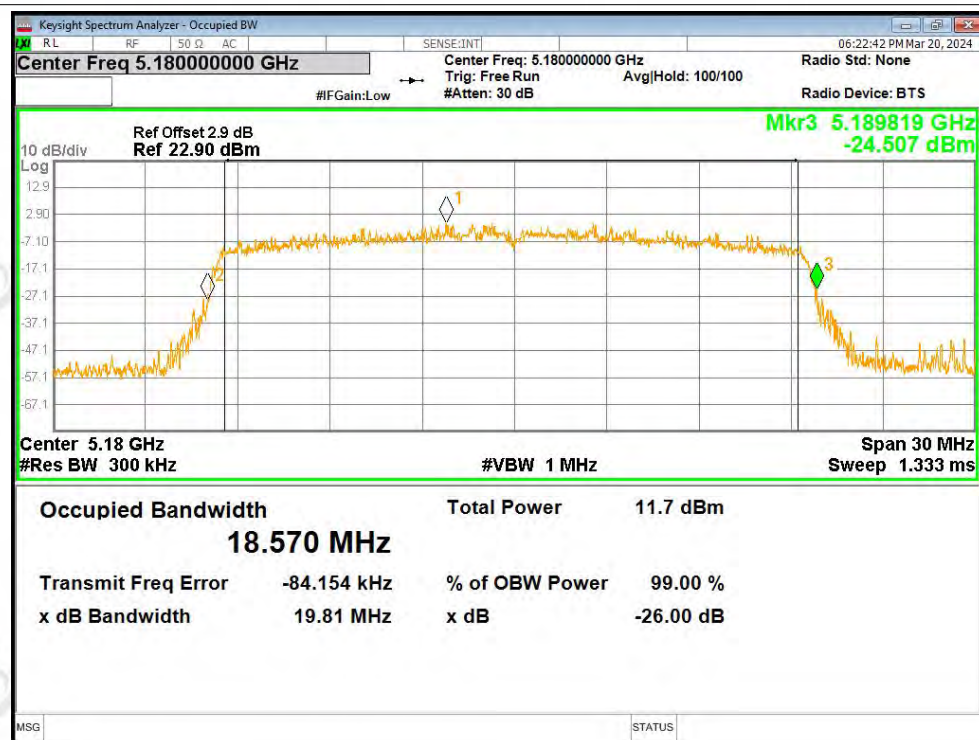


-26dB Bandwidth NVNT ac80 5210MHz Ant2

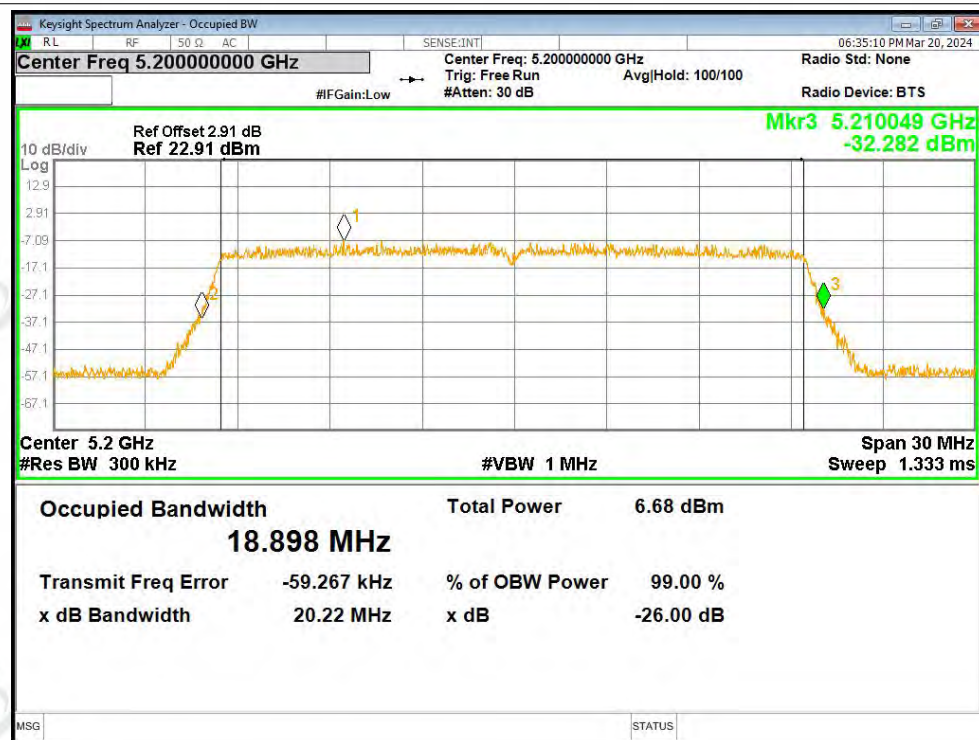




-26dB Bandwidth NVNT ax20 5180MHz Ant1

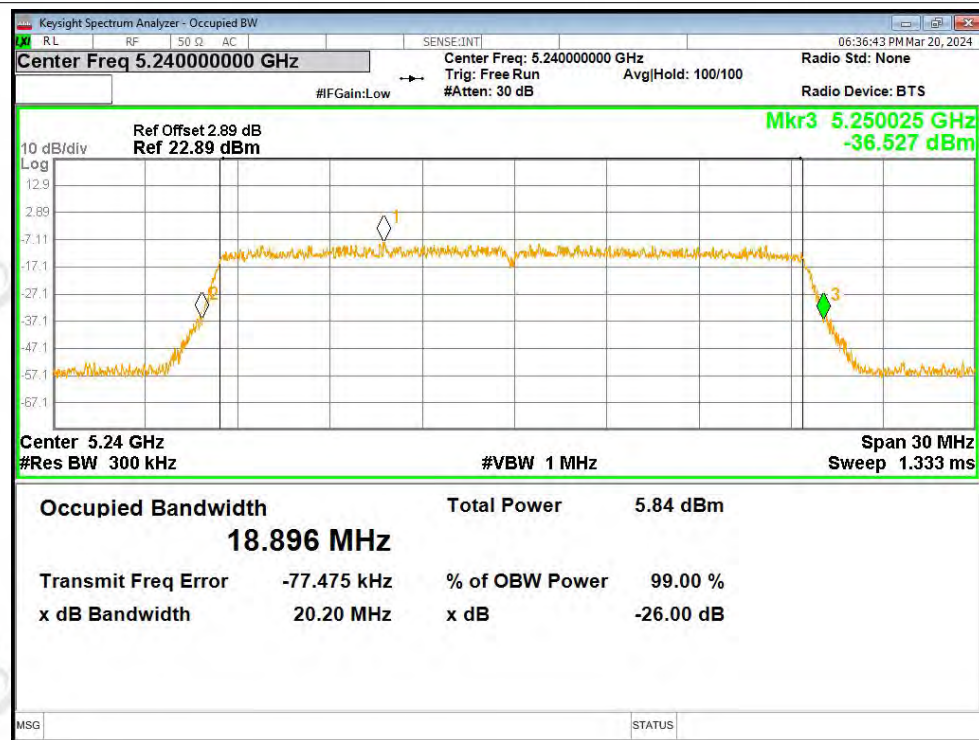


-26dB Bandwidth NVNT ax20 5200MHz Ant1

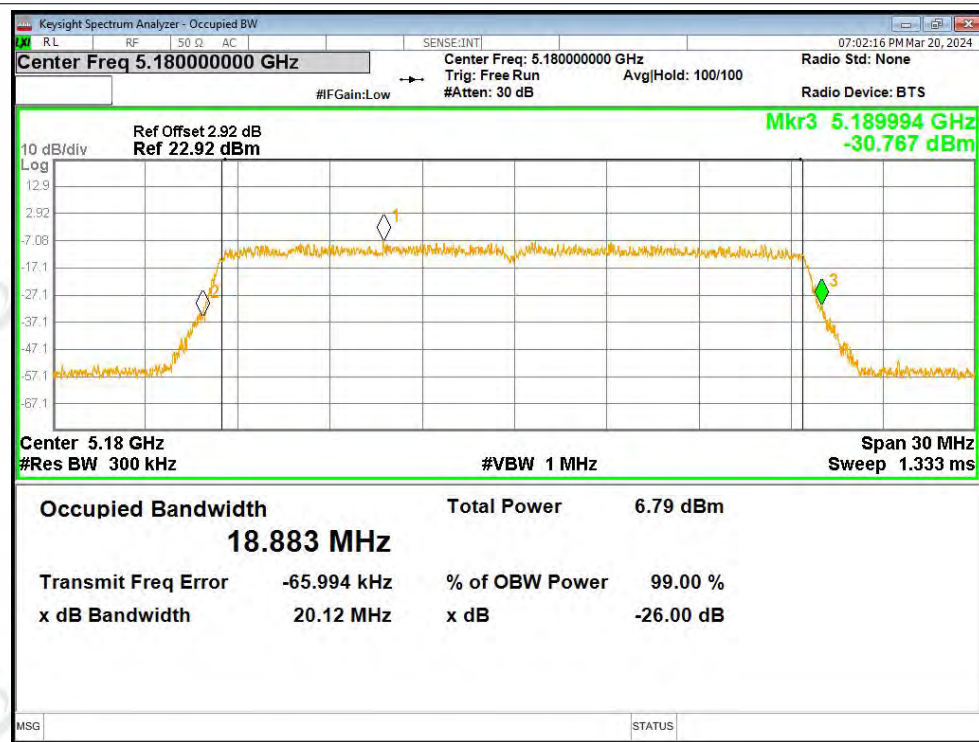




-26dB Bandwidth NVNT ax20 5240MHz Ant1

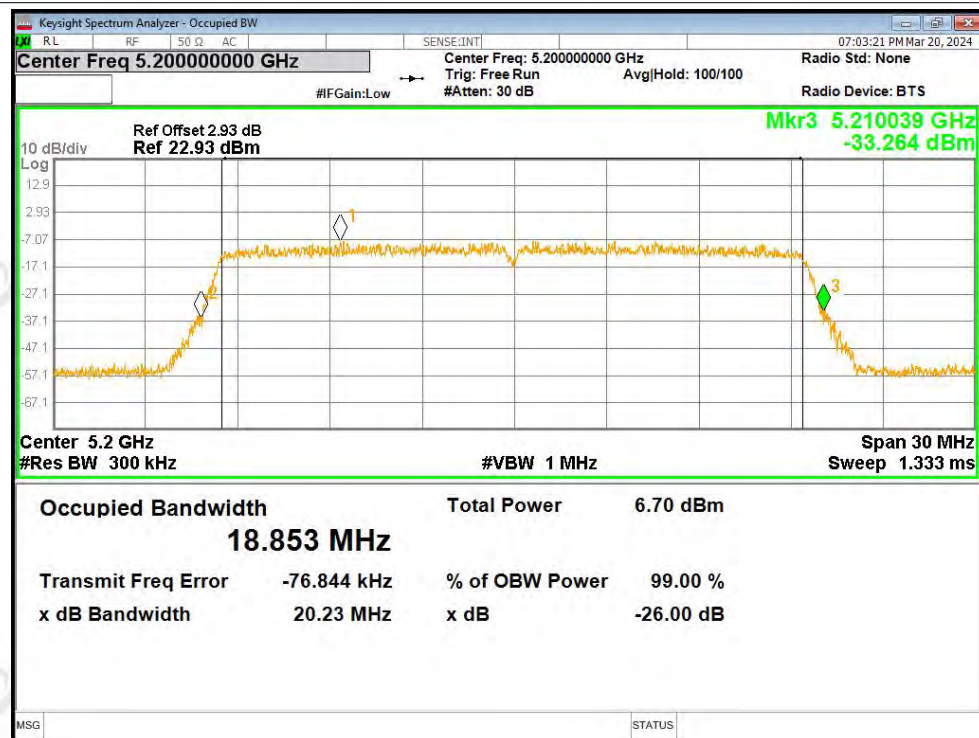


-26dB Bandwidth NVNT ax20 5180MHz Ant2

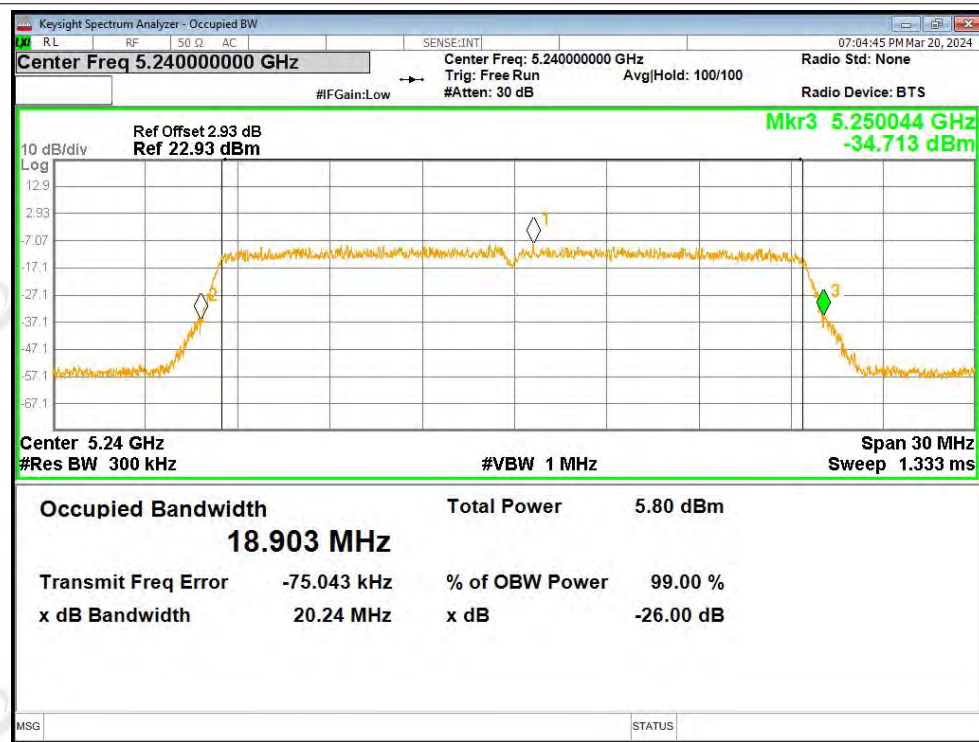


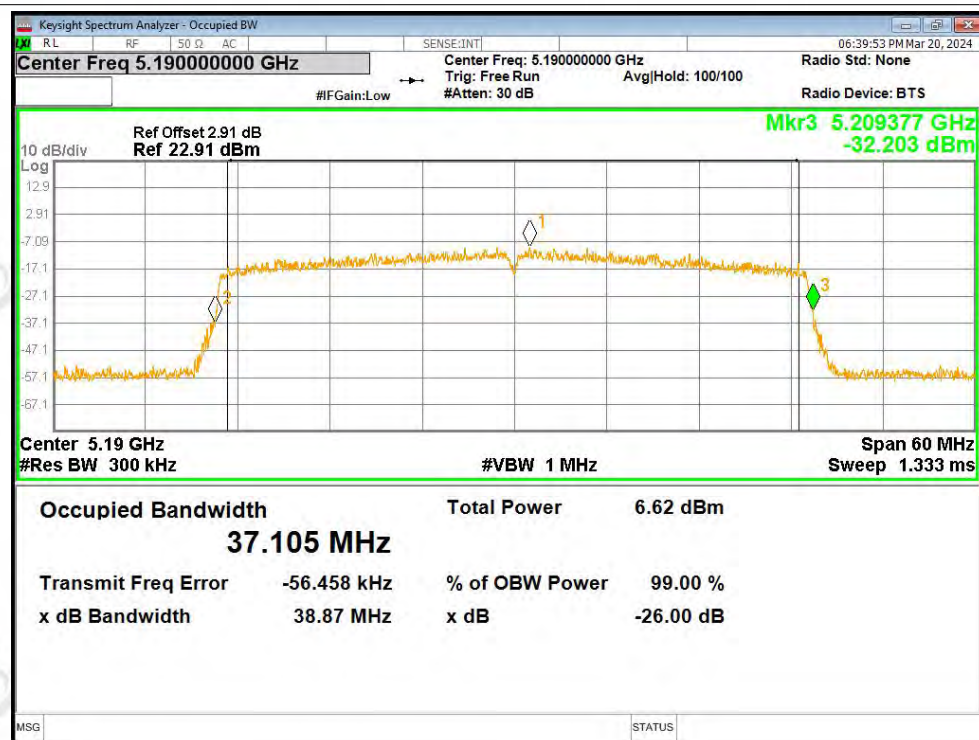
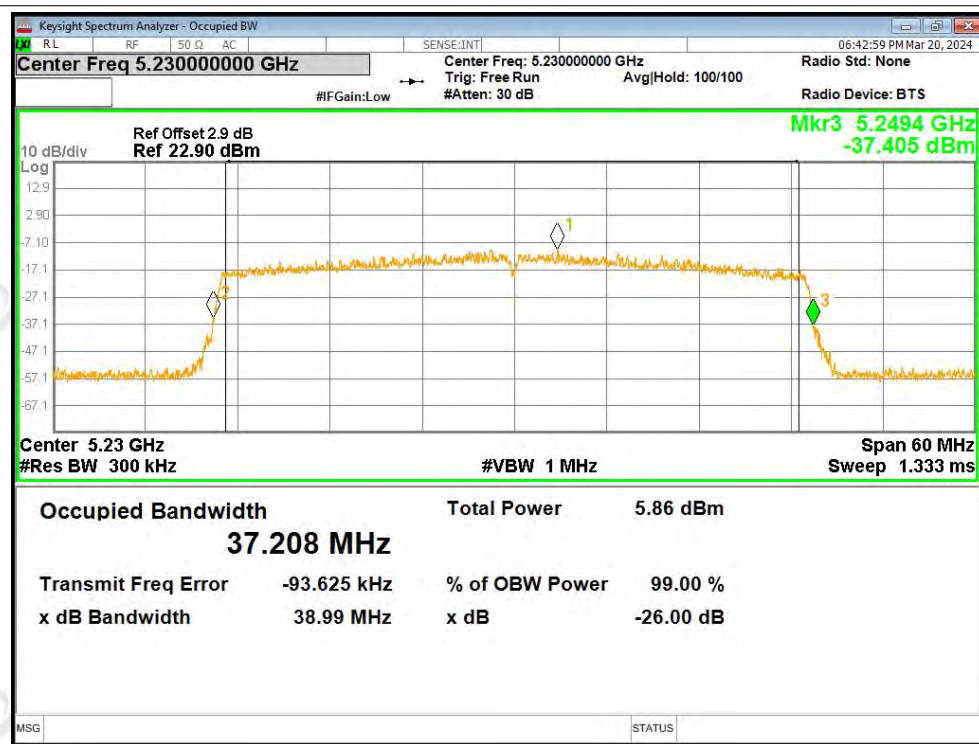


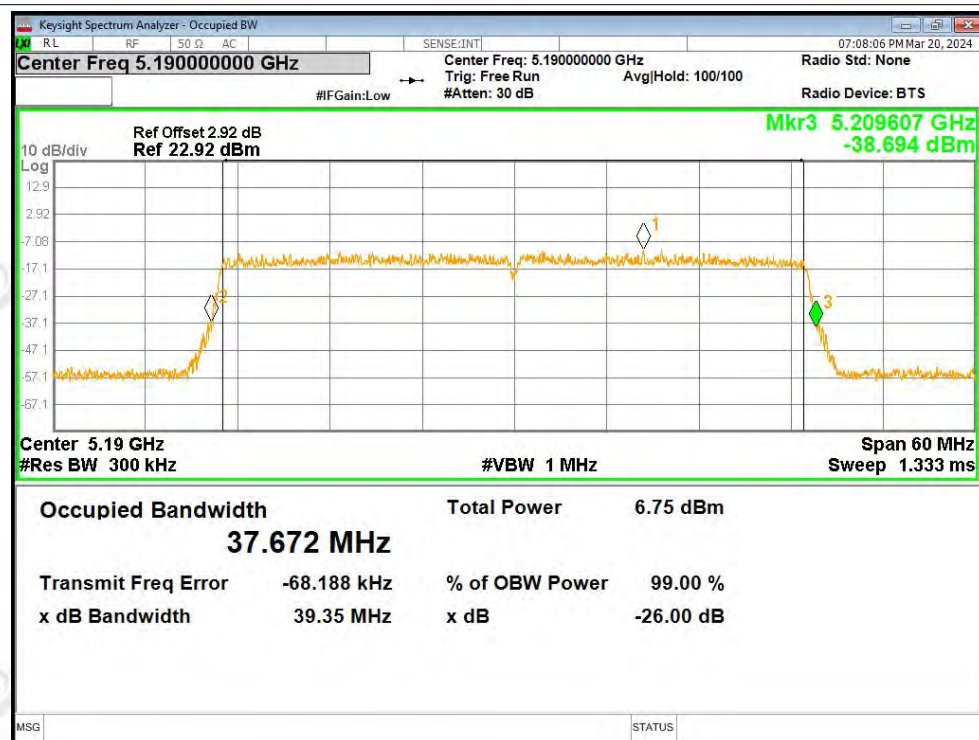
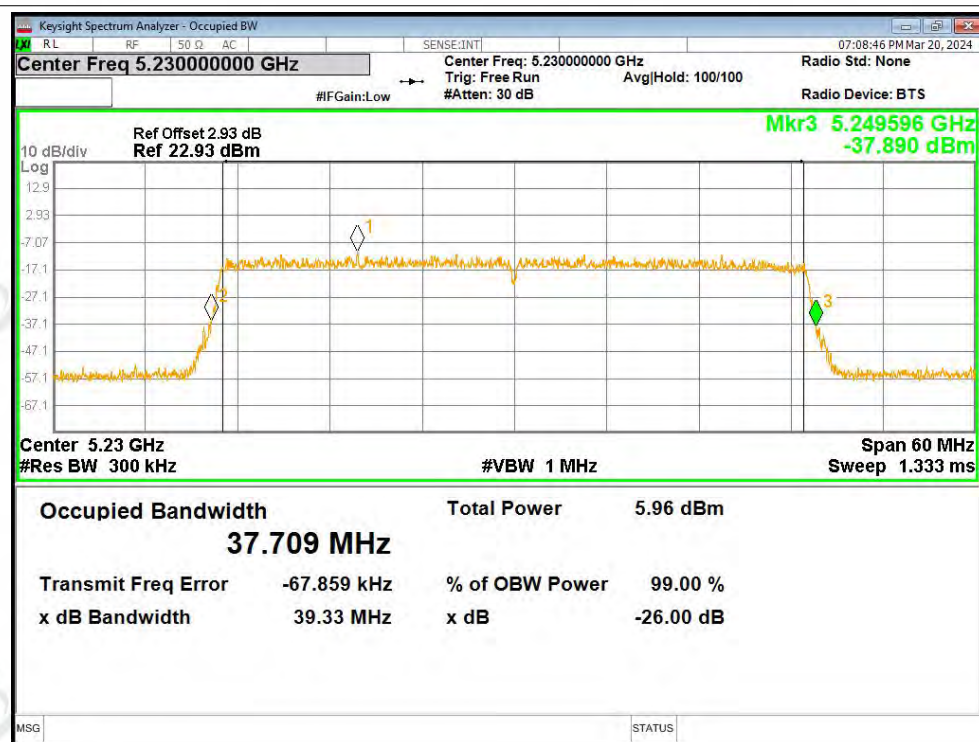
-26dB Bandwidth NVNT ax20 5200MHz Ant2



-26dB Bandwidth NVNT ax20 5240MHz Ant2

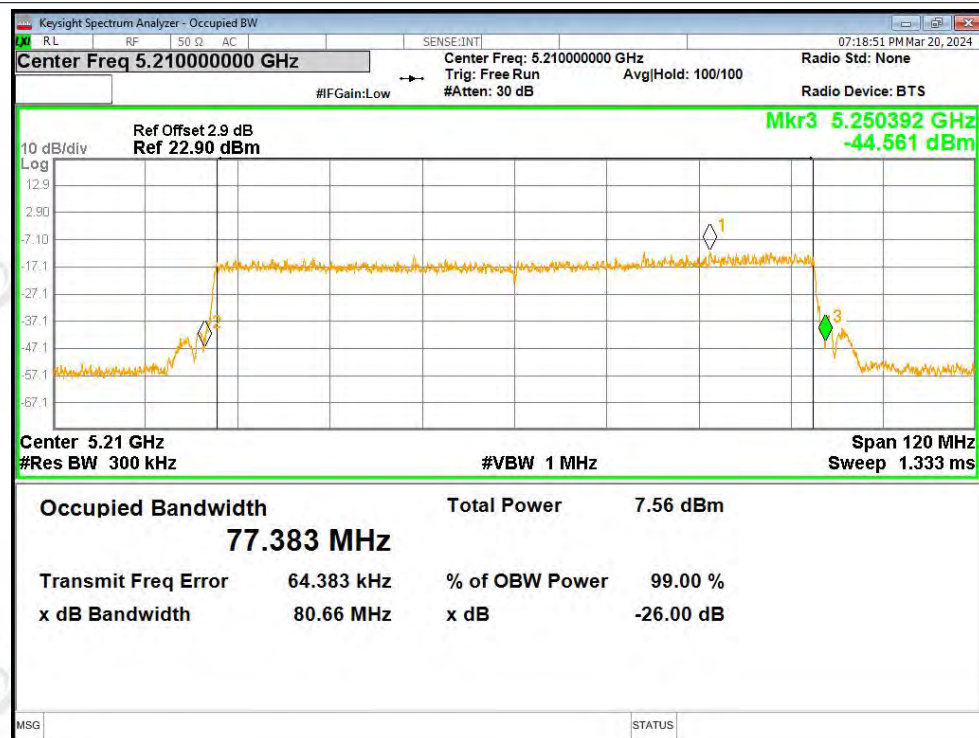


**-26dB Bandwidth NVNT ax40 5190MHz Ant1****-26dB Bandwidth NVNT ax40 5230MHz Ant1**

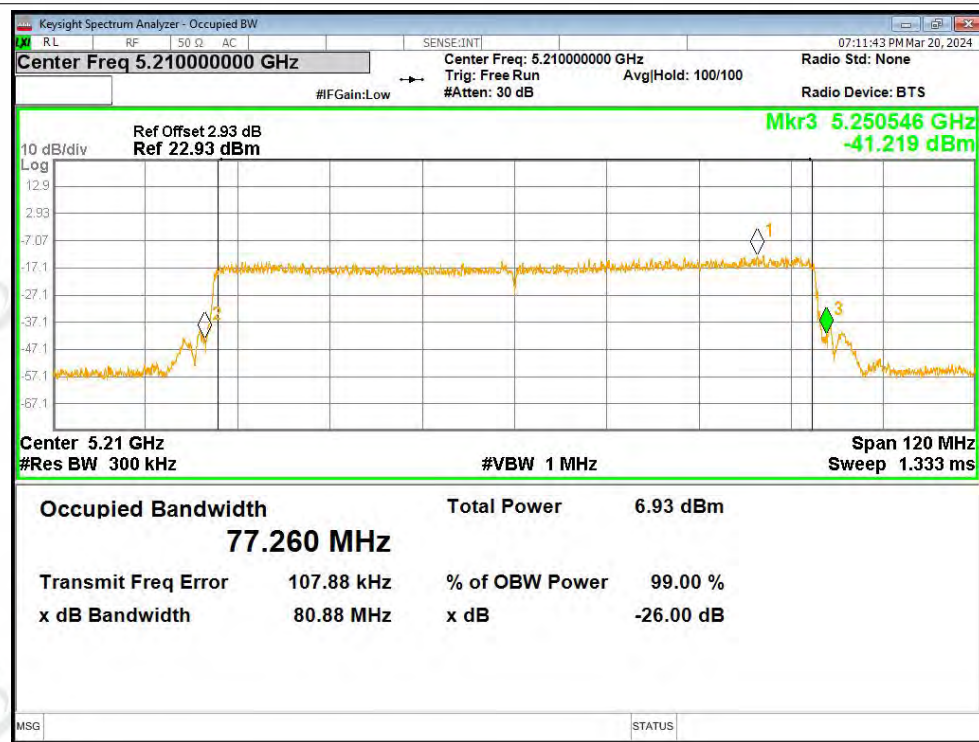
**-26dB Bandwidth NVNT ax40 5190MHz Ant2****-26dB Bandwidth NVNT ax40 5230MHz Ant2**



-26dB Bandwidth NVNT ax80 5210MHz Ant1



-26dB Bandwidth NVNT ax80 5210MHz Ant2



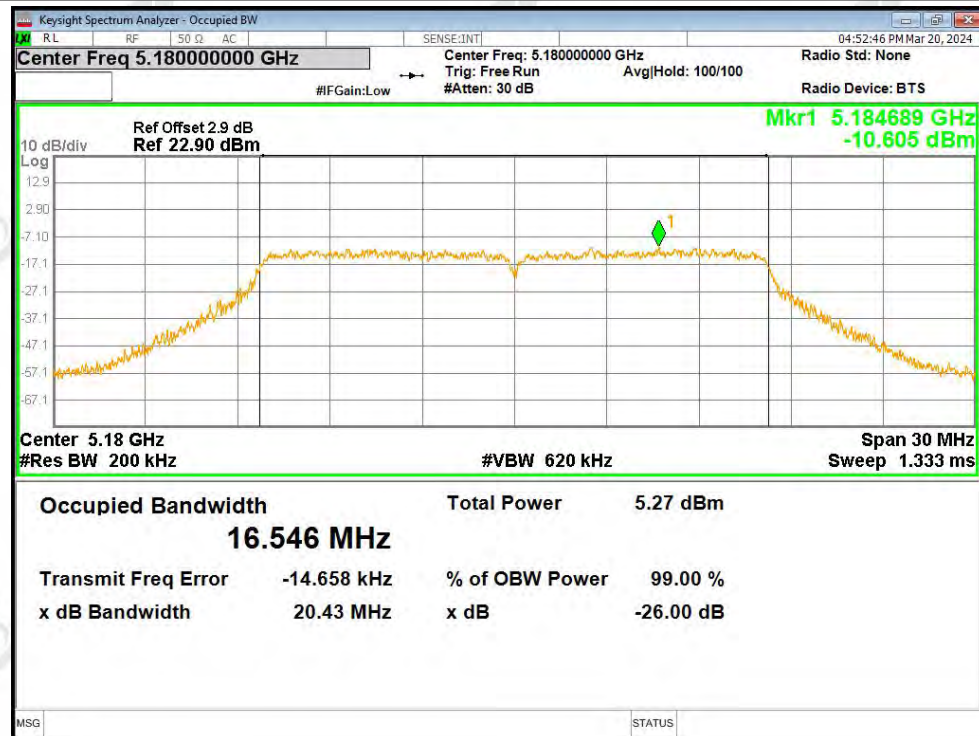
**B4. Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.546
NVNT	a	5200	Ant1	16.552
NVNT	a	5240	Ant1	16.572
NVNT	a	5180	Ant2	16.508
NVNT	a	5200	Ant2	16.529
NVNT	a	5240	Ant2	16.547
NVNT	n20	5180	Ant1	17.609
NVNT	n20	5200	Ant1	17.621
NVNT	n20	5240	Ant1	17.641
NVNT	n20	5180	Ant2	17.619
NVNT	n20	5200	Ant2	17.645
NVNT	n20	5240	Ant2	17.648
NVNT	n40	5190	Ant1	36.184
NVNT	n40	5230	Ant1	36.193
NVNT	n40	5190	Ant2	36.174
NVNT	n40	5230	Ant2	36.169
NVNT	ac20	5180	Ant1	17.641
NVNT	ac20	5200	Ant1	17.633
NVNT	ac20	5240	Ant1	17.607
NVNT	ac20	5180	Ant2	17.631
NVNT	ac20	5200	Ant2	17.622
NVNT	ac20	5240	Ant2	17.671
NVNT	ac40	5190	Ant1	36.119
NVNT	ac40	5230	Ant1	36.142
NVNT	ac40	5190	Ant2	36.145
NVNT	ac40	5230	Ant2	36.16
NVNT	ac80	5210	Ant1	75.271
NVNT	ac80	5210	Ant2	75.286
NVNT	ax20	5180	Ant1	18.598
NVNT	ax20	5200	Ant1	18.841
NVNT	ax20	5240	Ant1	18.871
NVNT	ax20	5180	Ant2	18.852
NVNT	ax20	5200	Ant2	18.857
NVNT	ax20	5240	Ant2	18.858
NVNT	ax40	5190	Ant1	37.103
NVNT	ax40	5230	Ant1	37.169
NVNT	ax40	5190	Ant2	37.752
NVNT	ax40	5230	Ant2	37.646
NVNT	ax80	5210	Ant1	77.283
NVNT	ax80	5210	Ant2	77.314

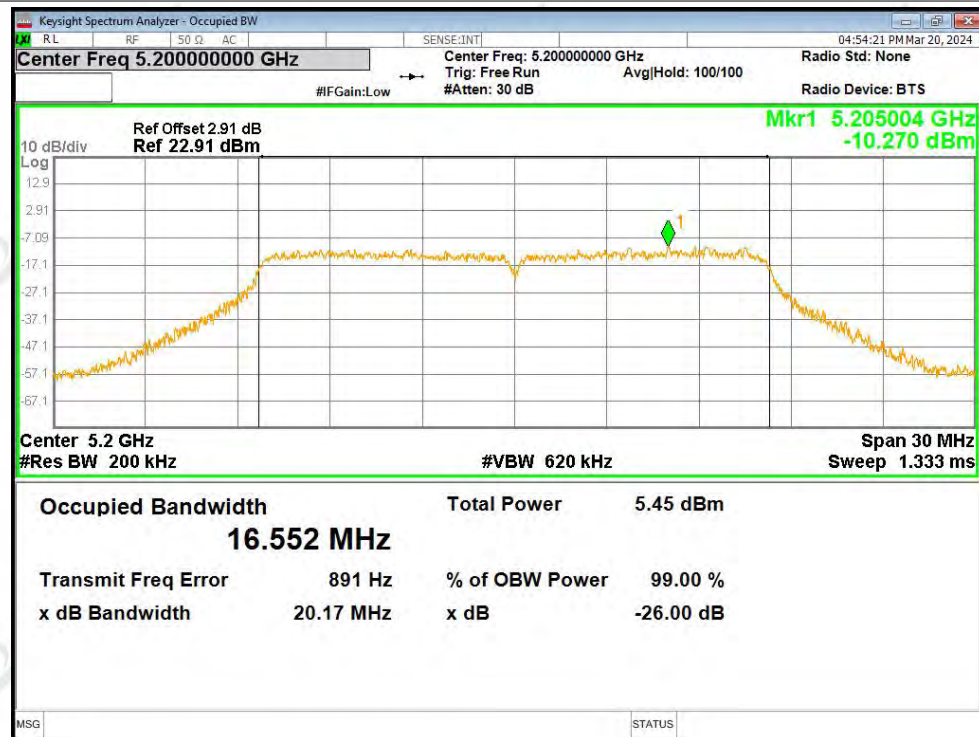


Test Graphs

OBW NVNT a 5180MHz Ant1

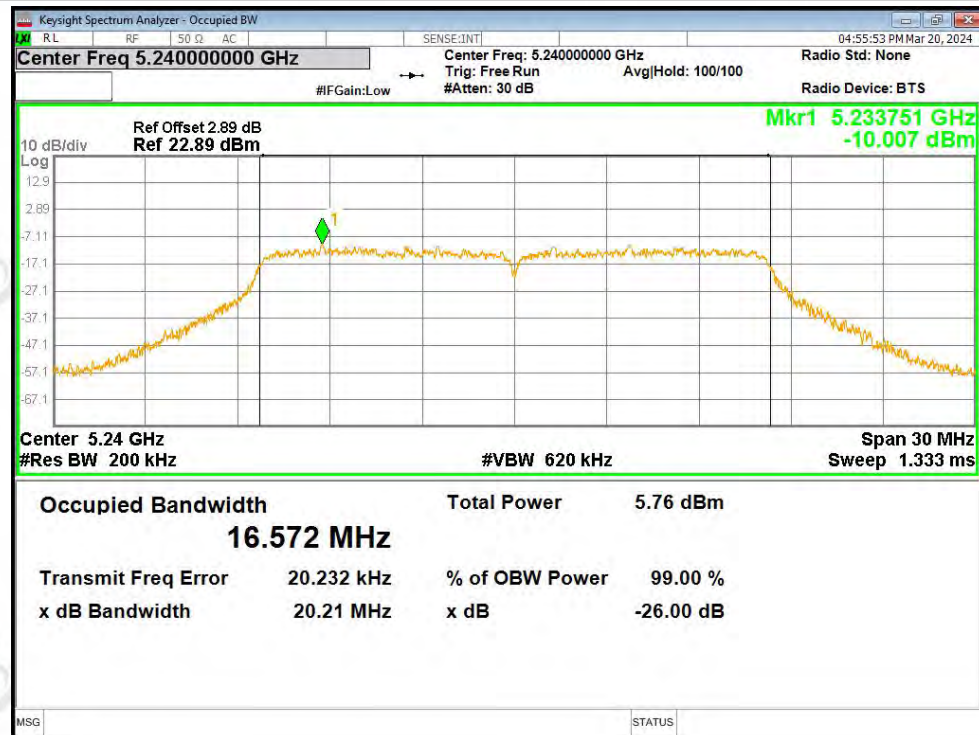


OBW NVNT a 5200MHz Ant1

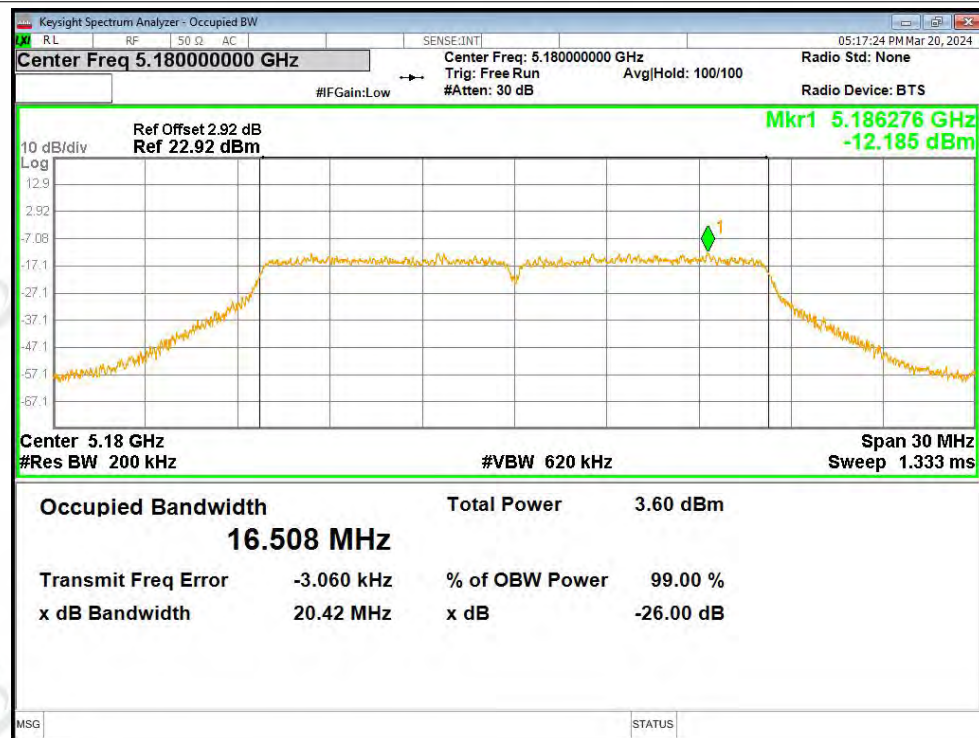




OBW NVNT a 5240MHz Ant1

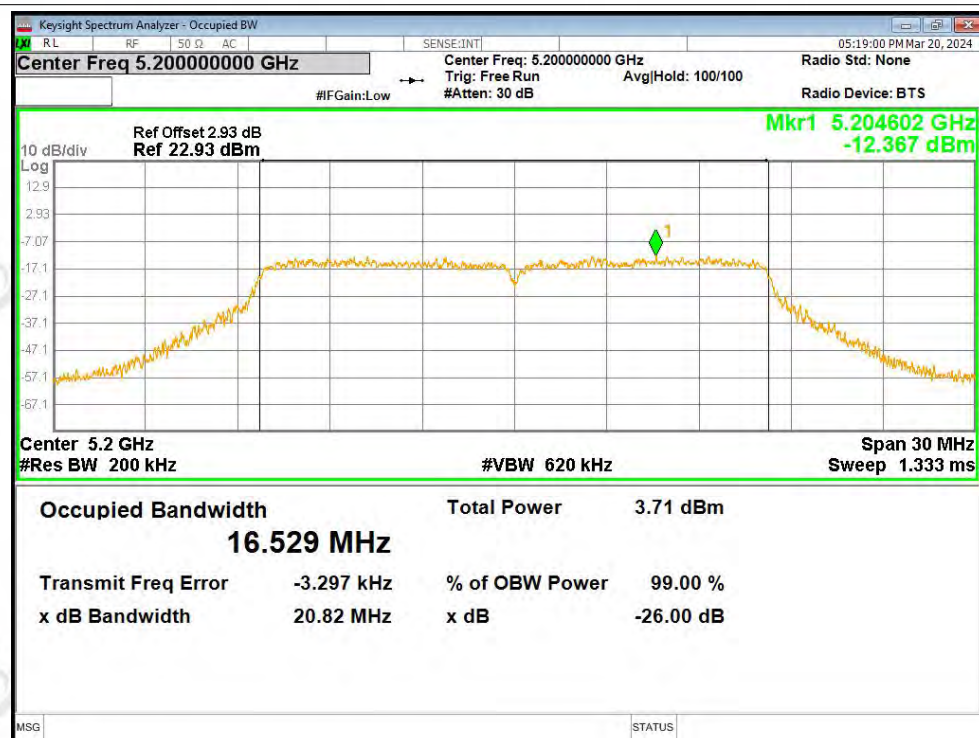


OBW NVNT a 5180MHz Ant2

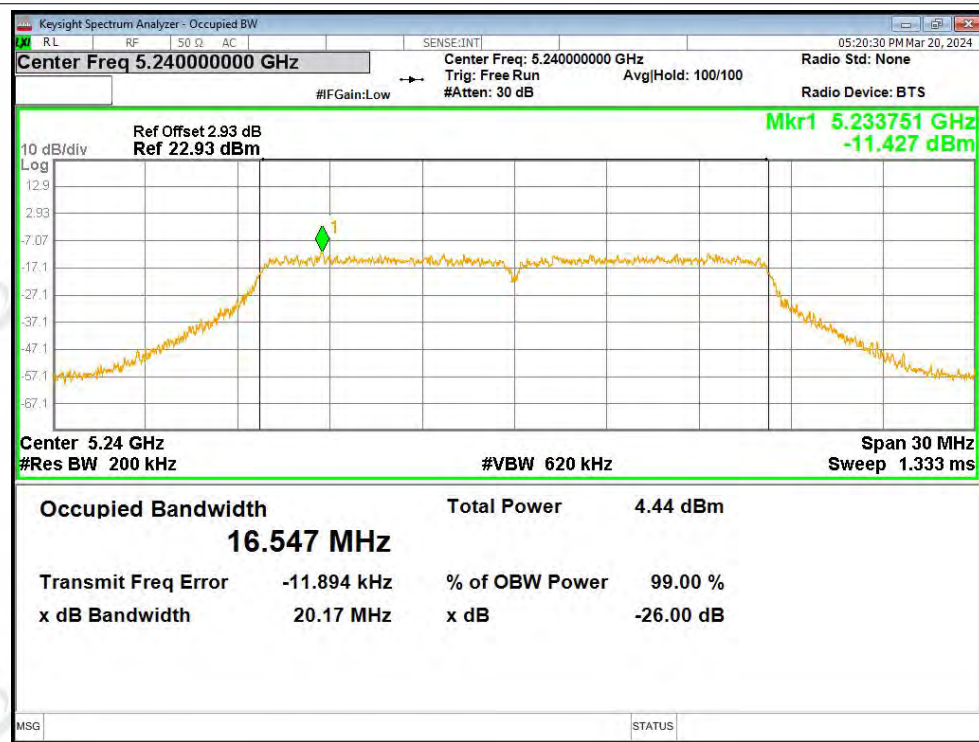




OBW NVNT a 5200MHz Ant2

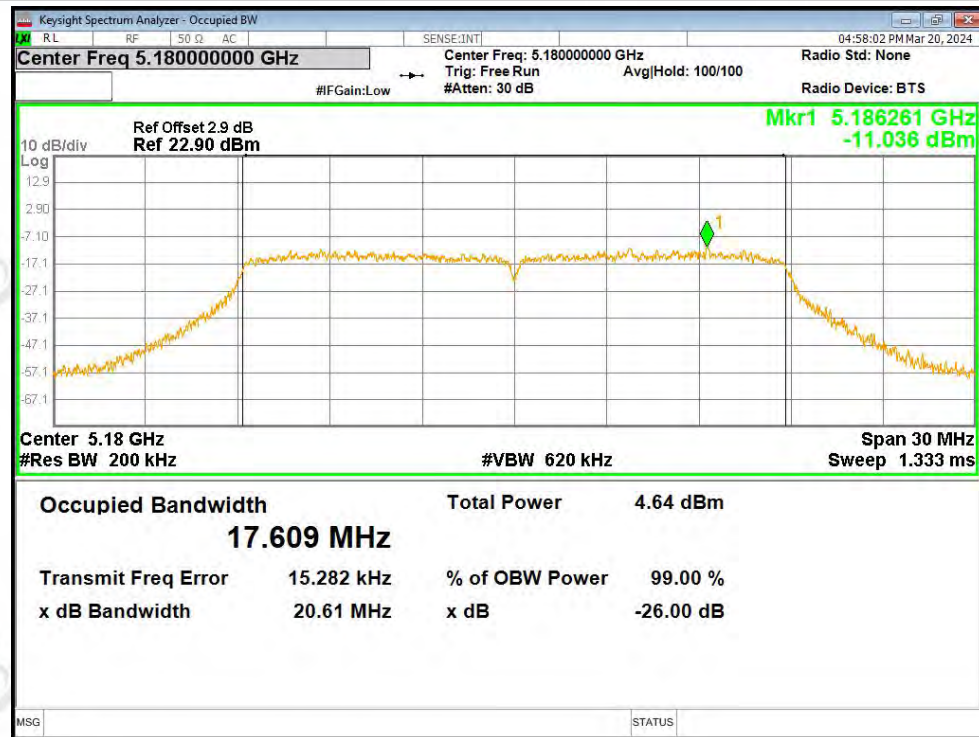


OBW NVNT a 5240MHz Ant2

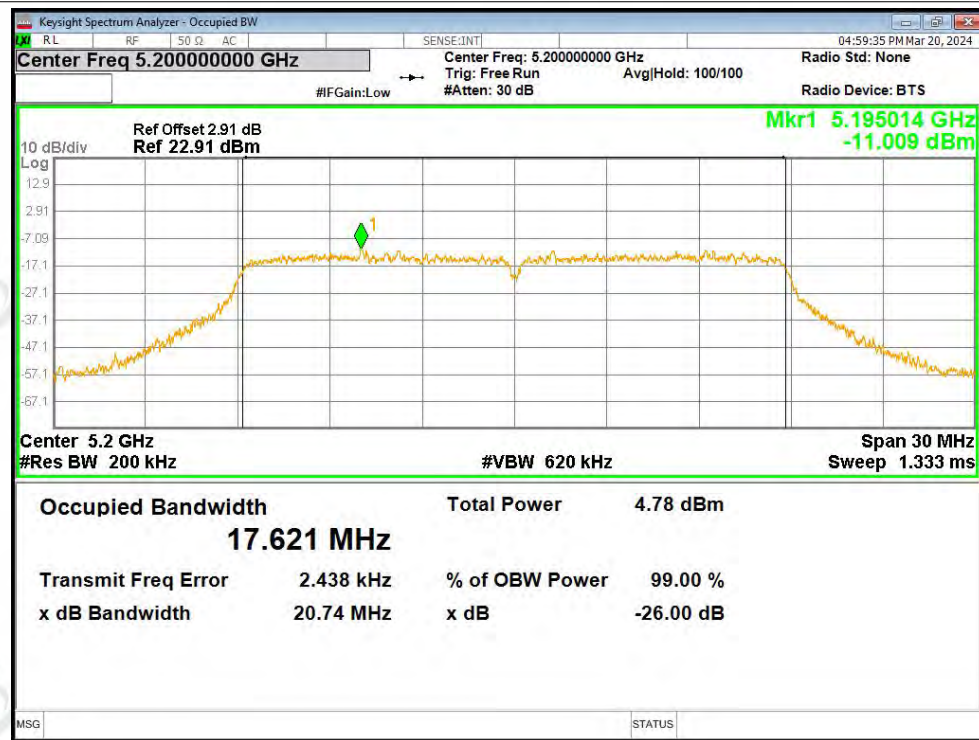




OBW NVNT n20 5180MHz Ant1

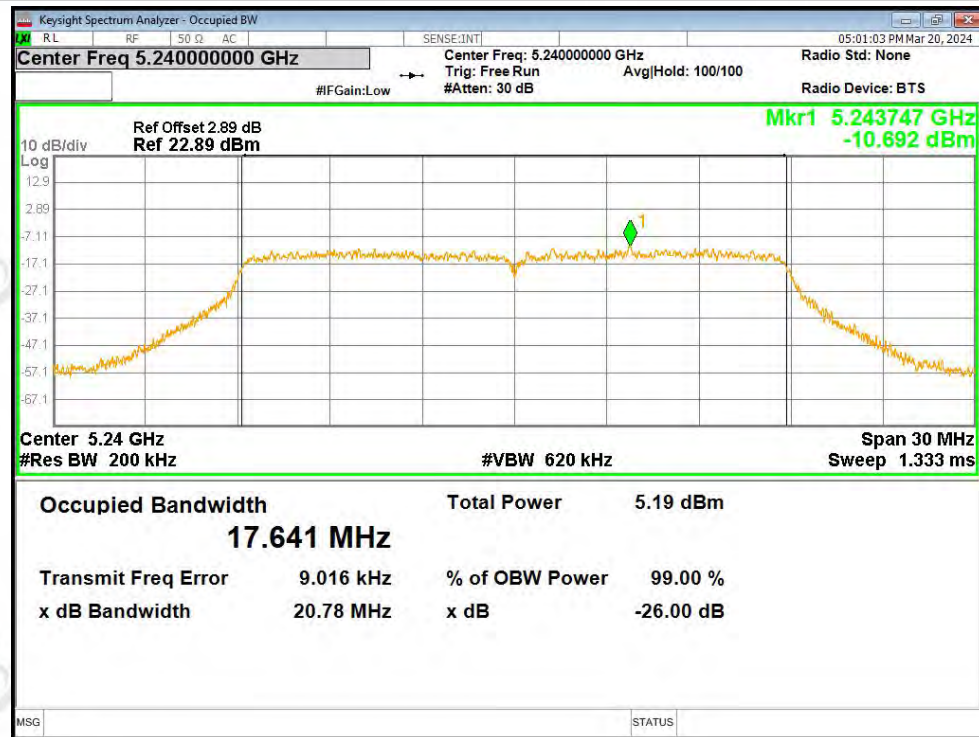


OBW NVNT n20 5200MHz Ant1

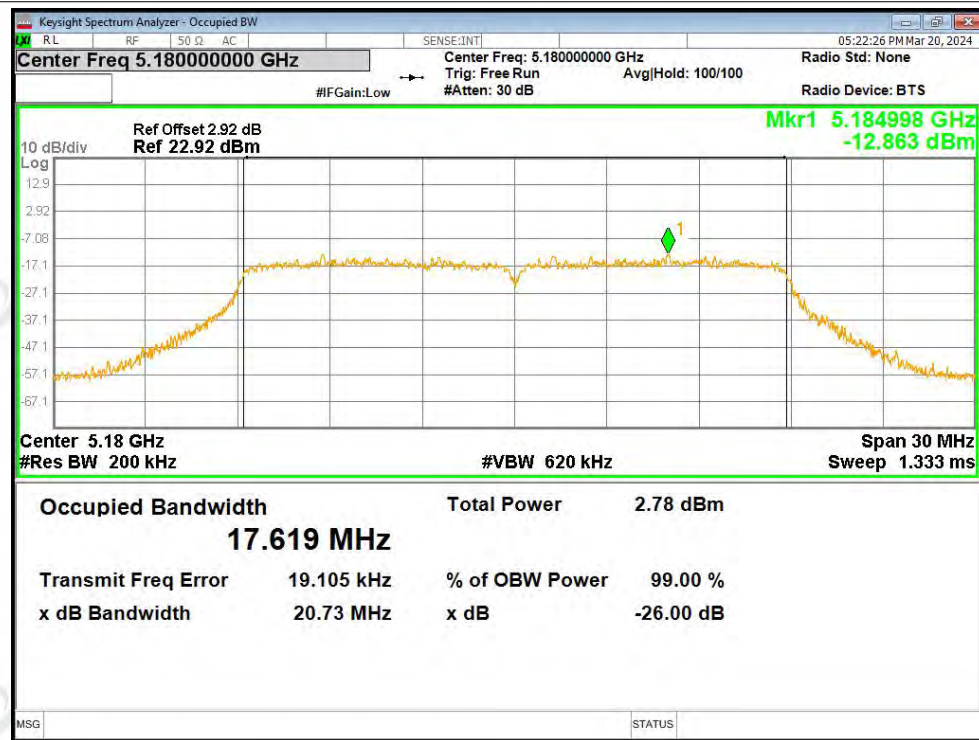




OBW NVNT n20 5240MHz Ant1

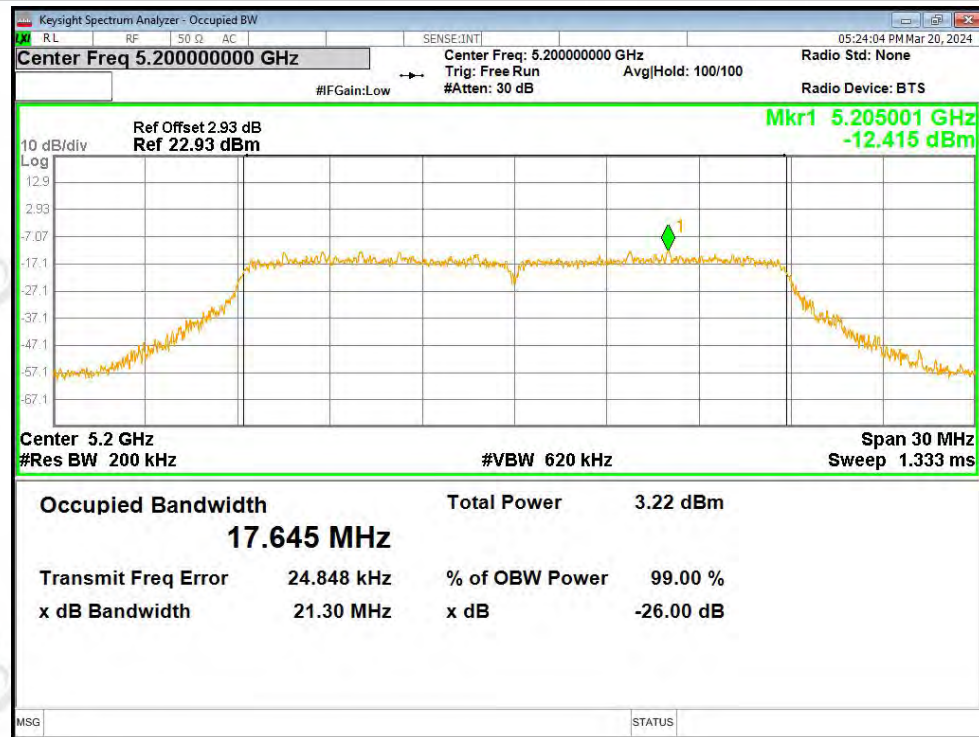


OBW NVNT n20 5180MHz Ant2

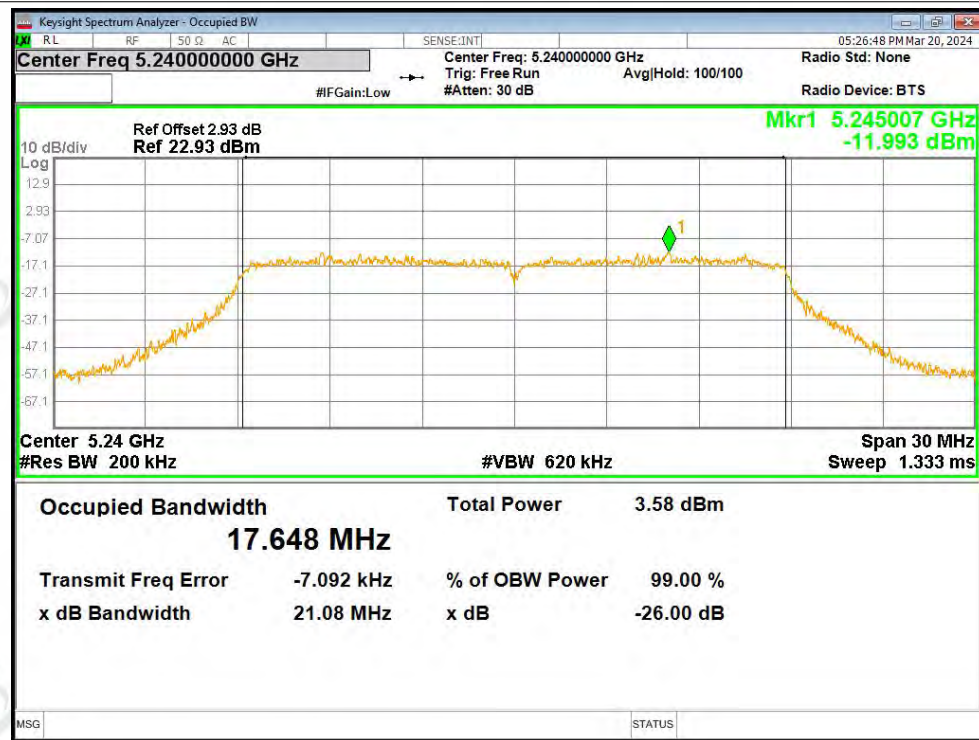




OBW NVNT n20 5200MHz Ant2

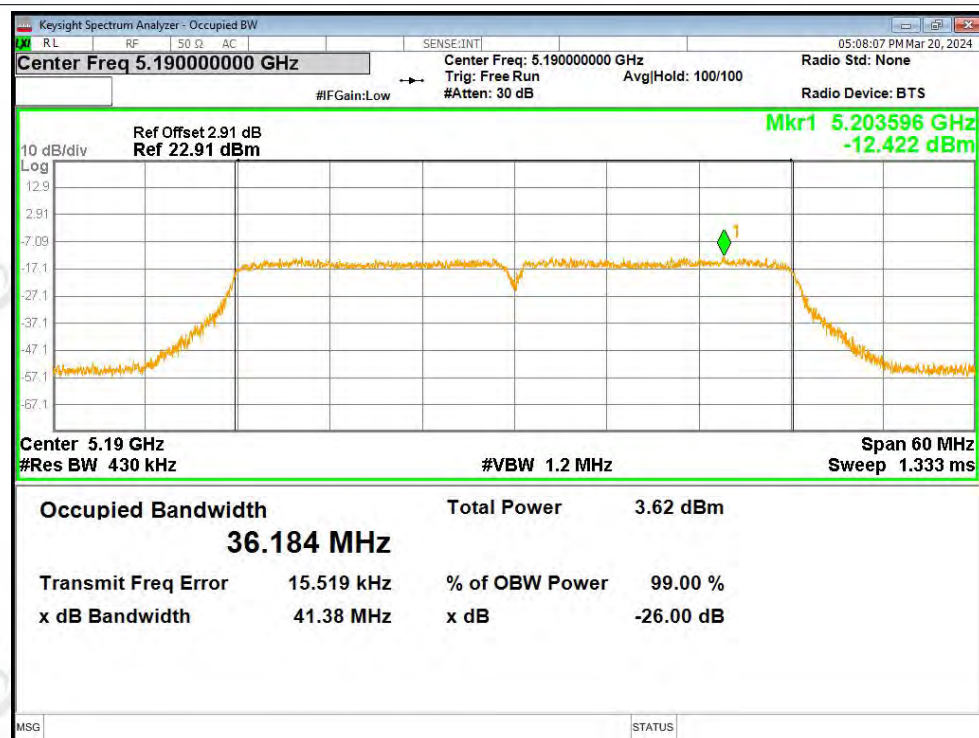


OBW NVNT n20 5240MHz Ant2

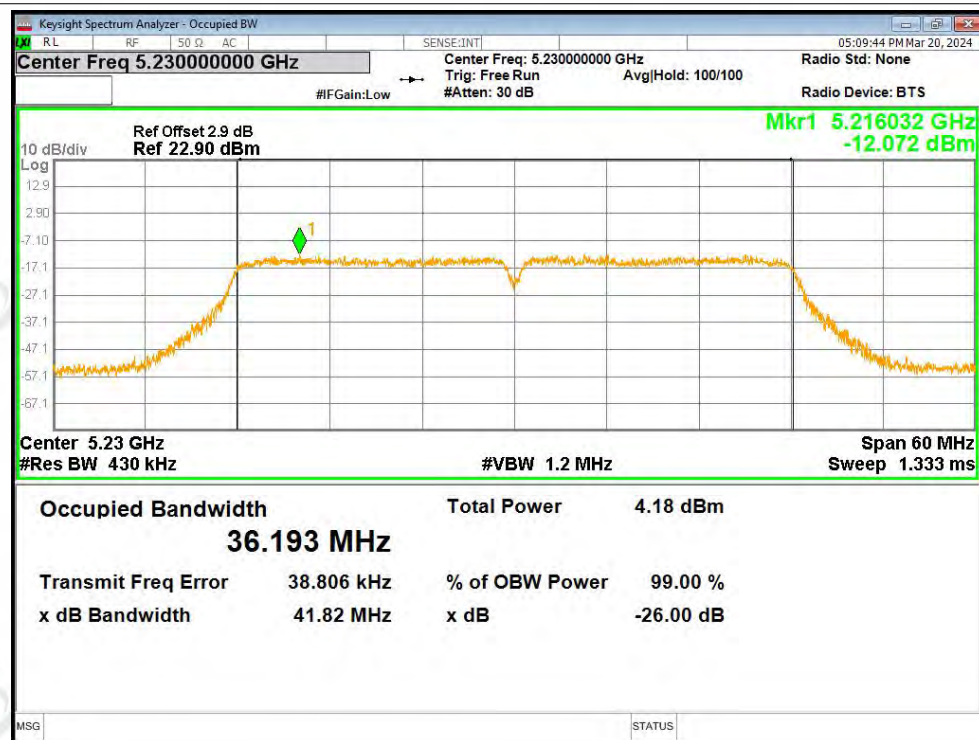




OBW NVNT n40 5190MHz Ant1

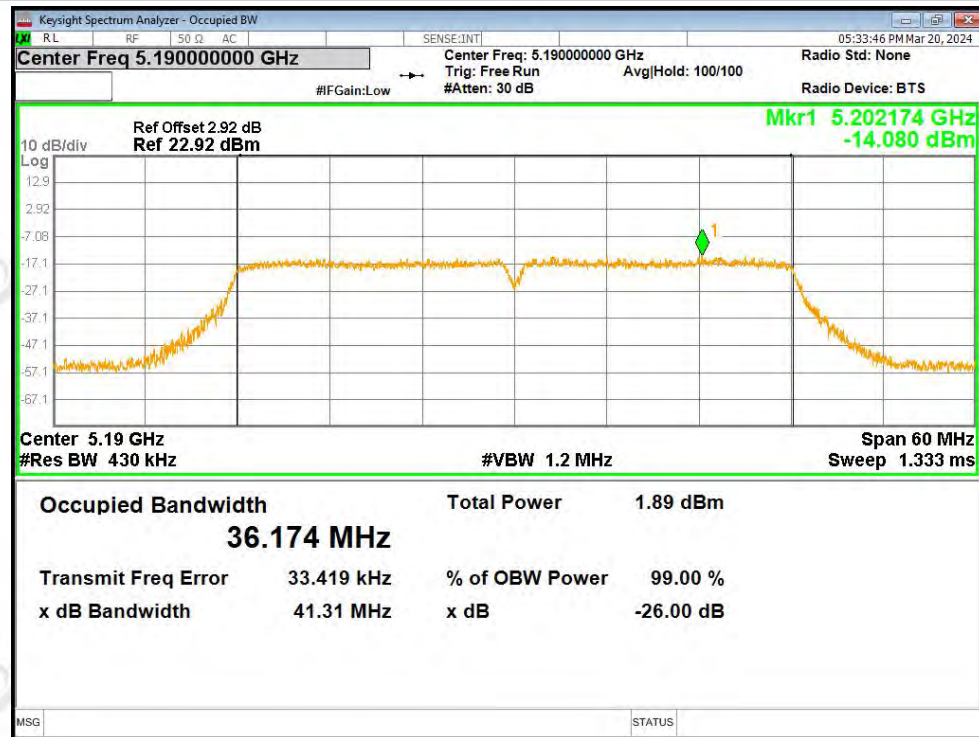


OBW NVNT n40 5230MHz Ant1

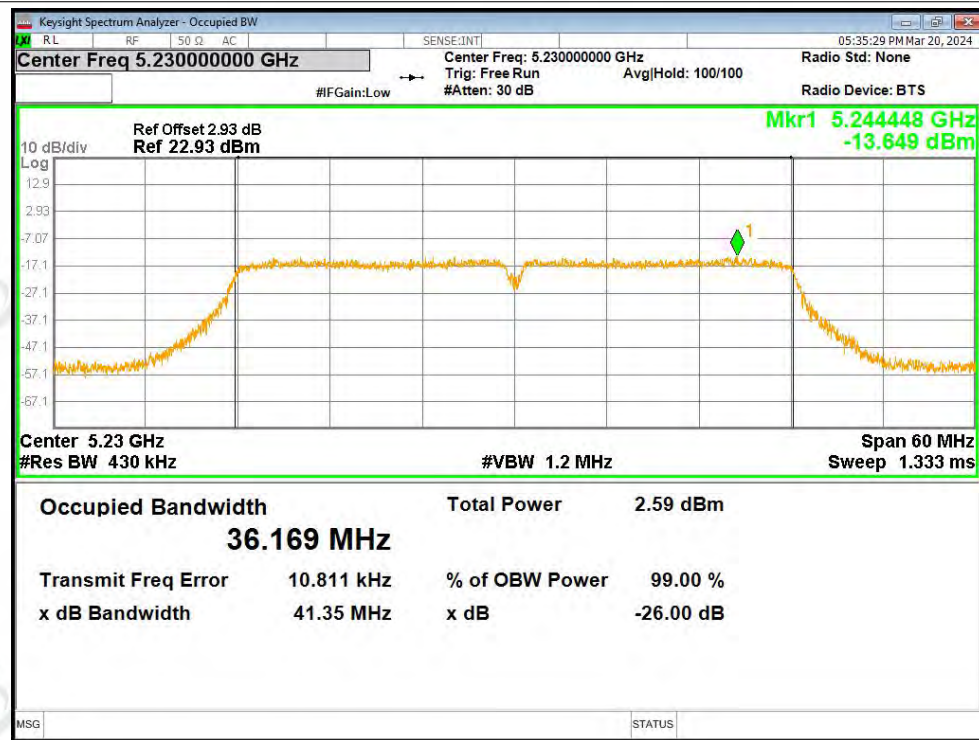




OBW NVNT n40 5190MHz Ant2

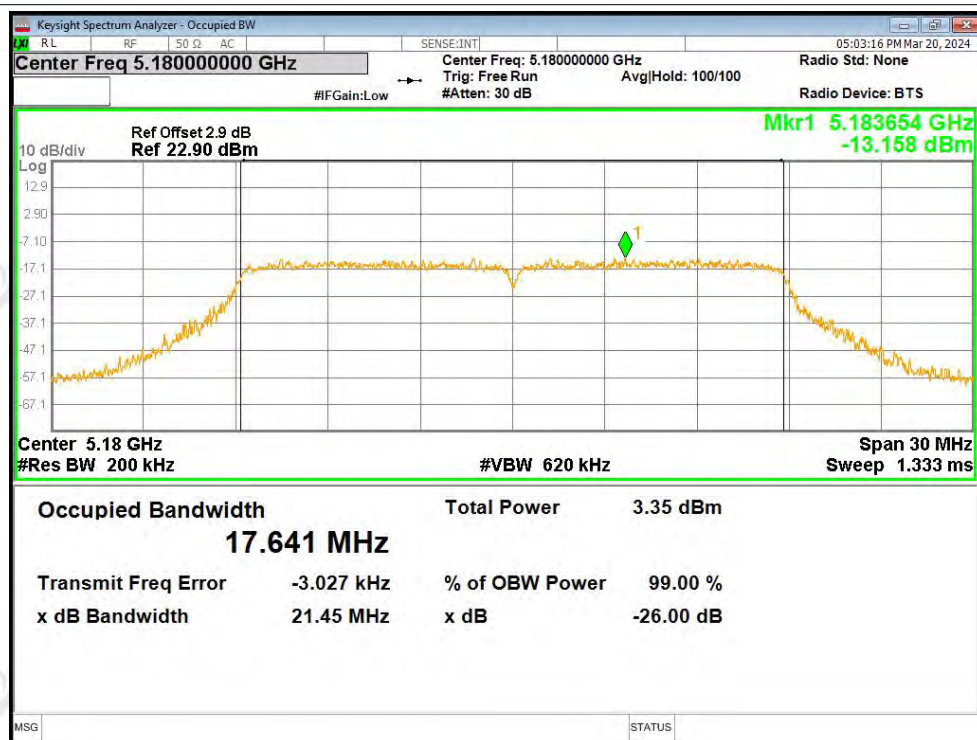


OBW NVNT n40 5230MHz Ant2

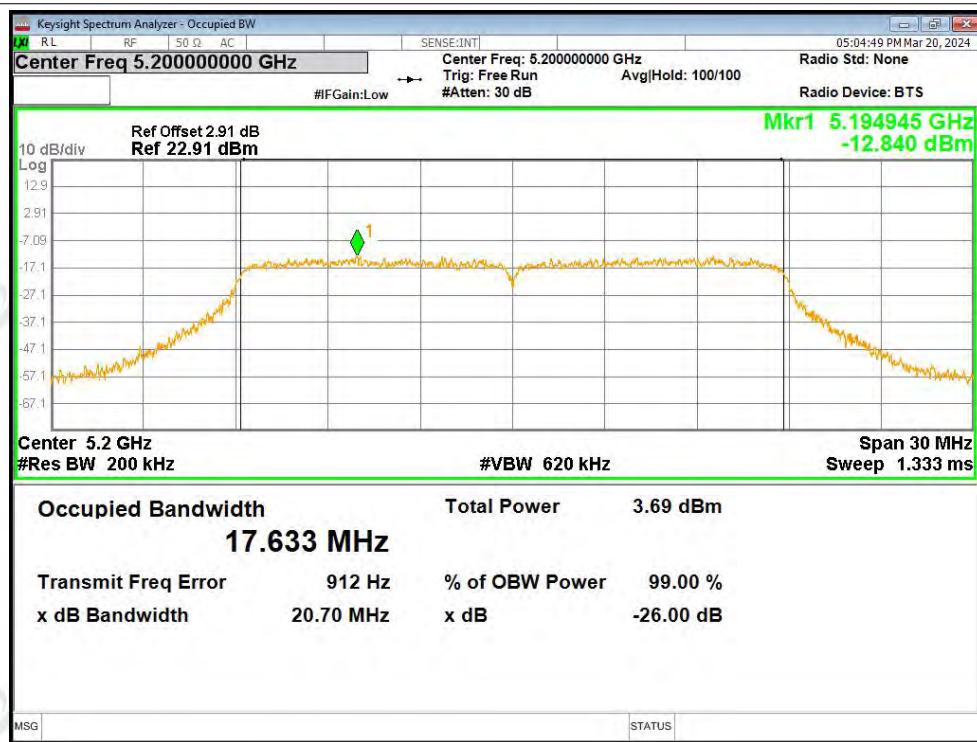




OBW NVNT ac20 5180MHz Ant1

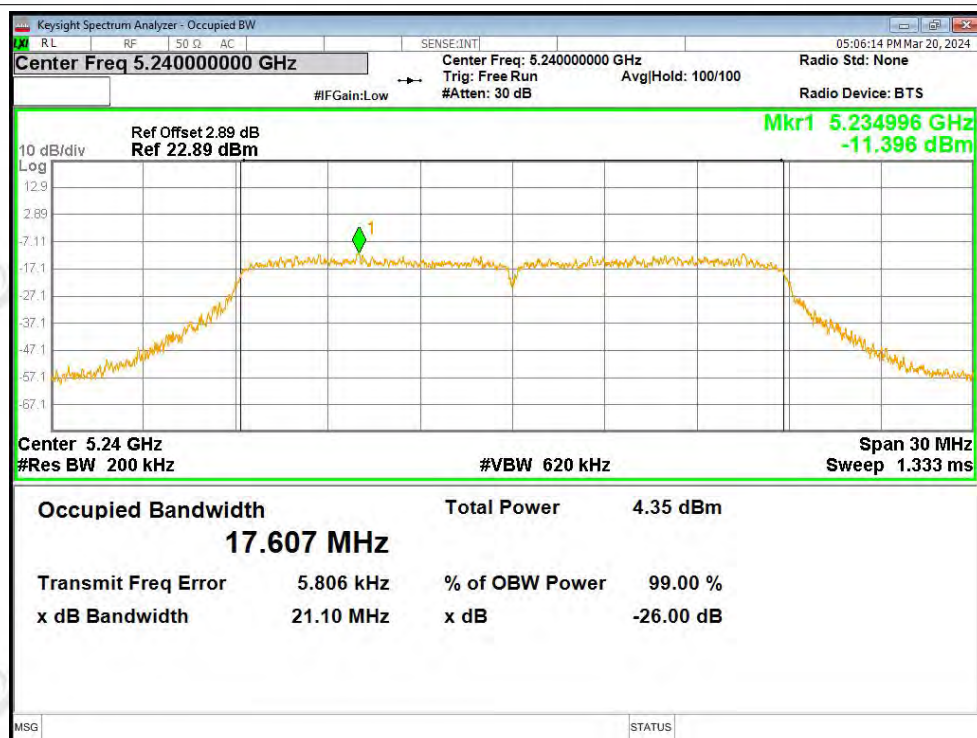


OBW NVNT ac20 5200MHz Ant1

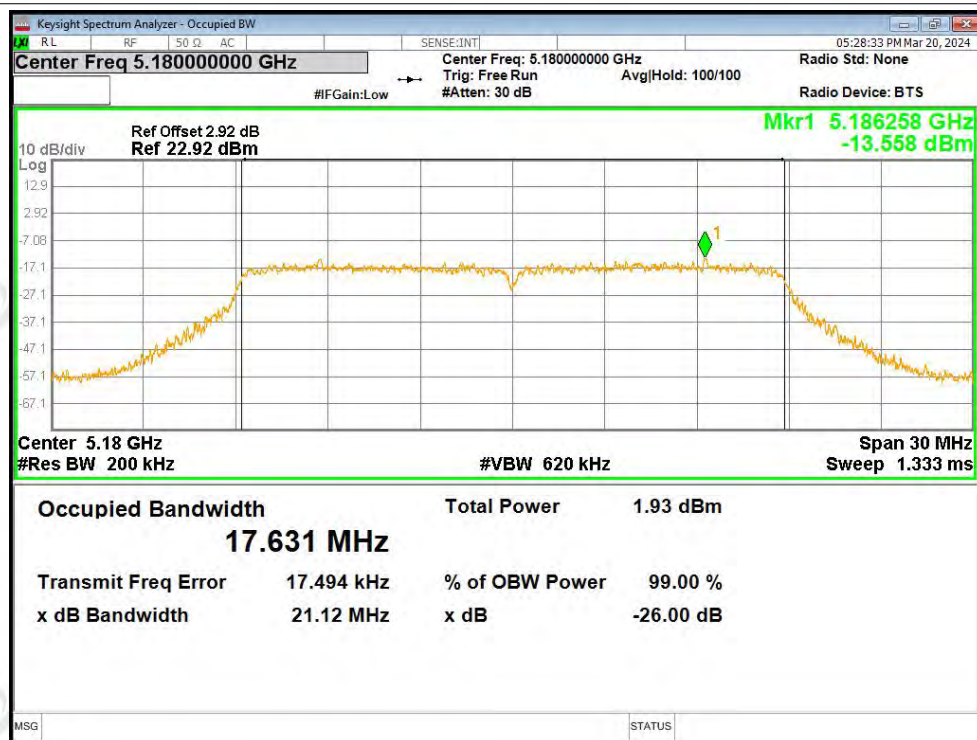




OBW NVNT ac20 5240MHz Ant1

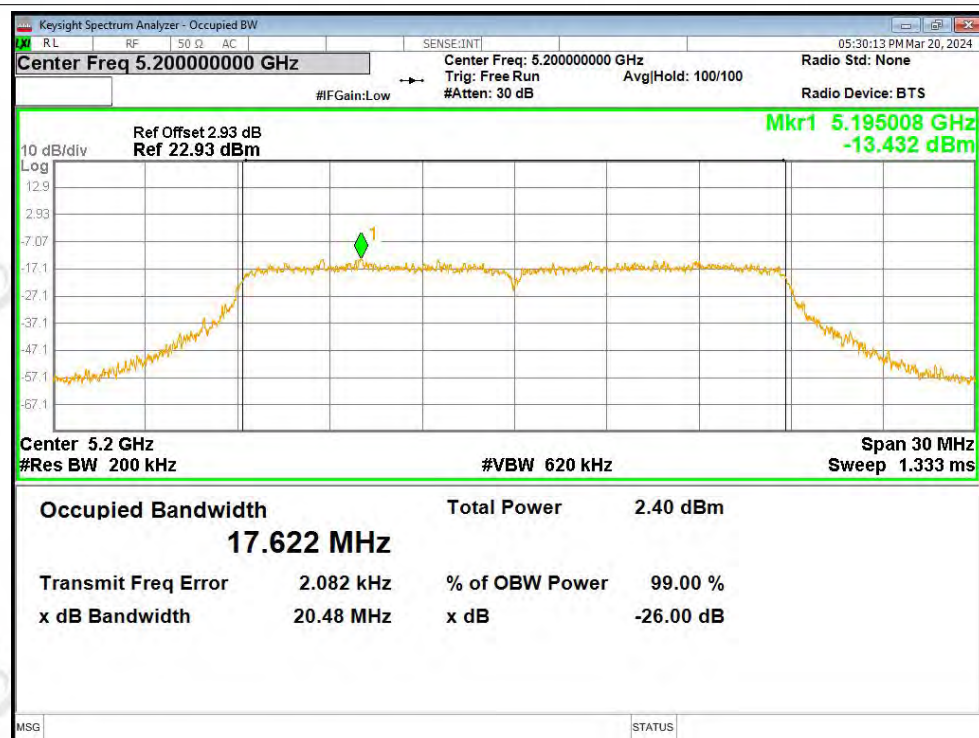


OBW NVNT ac20 5180MHz Ant2

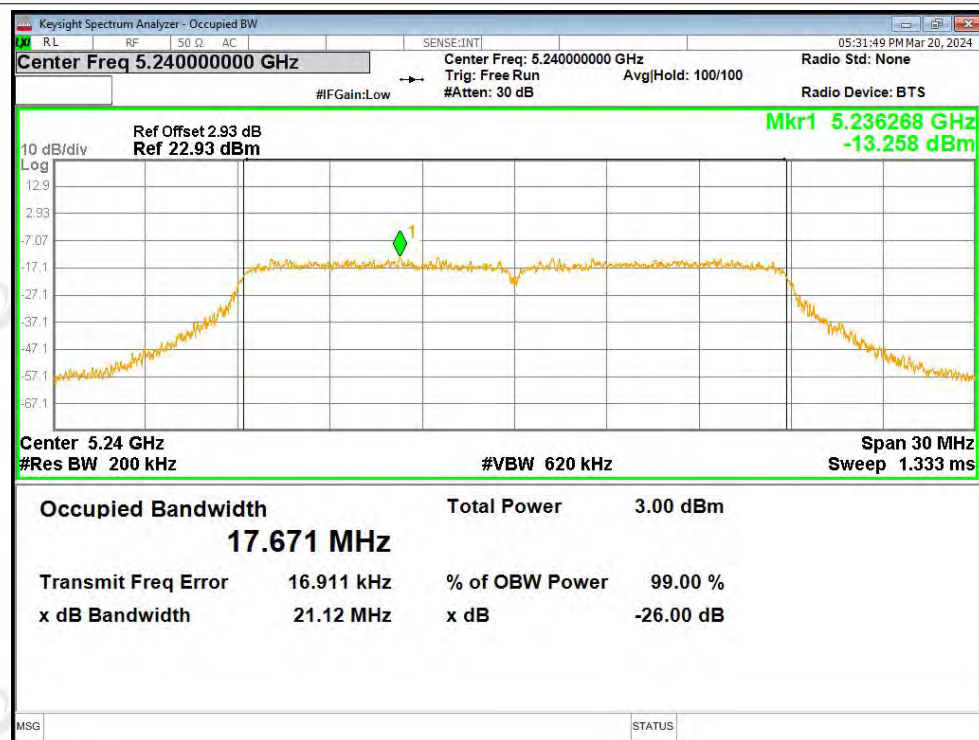




OBW NVNT ac20 5200MHz Ant2

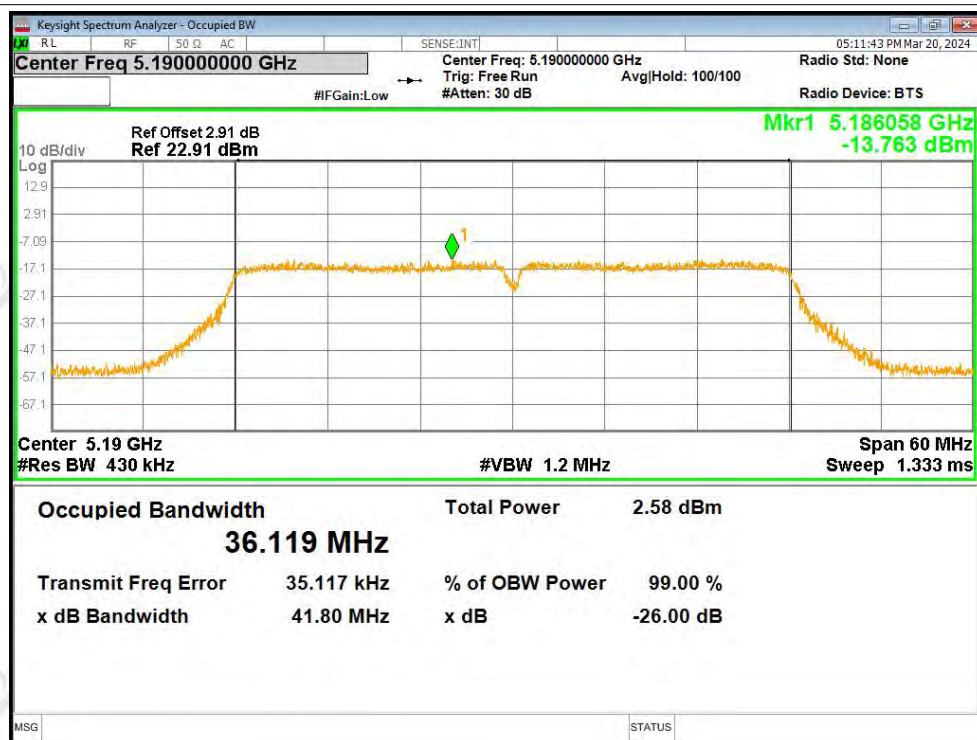


OBW NVNT ac20 5240MHz Ant2

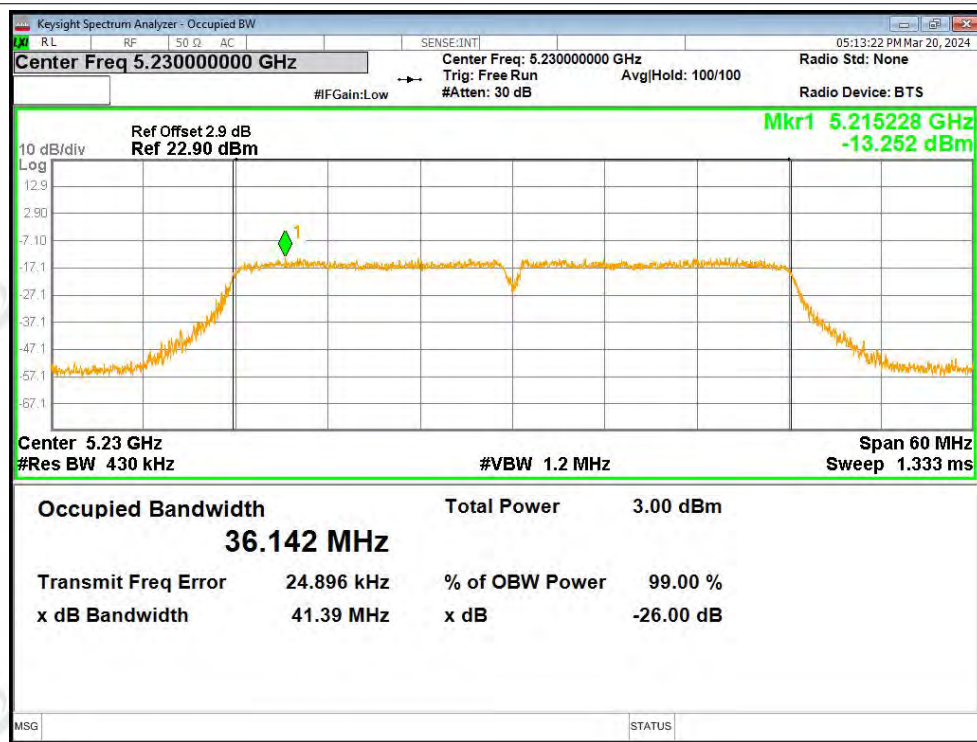




OBW NVNT ac40 5190MHz Ant1

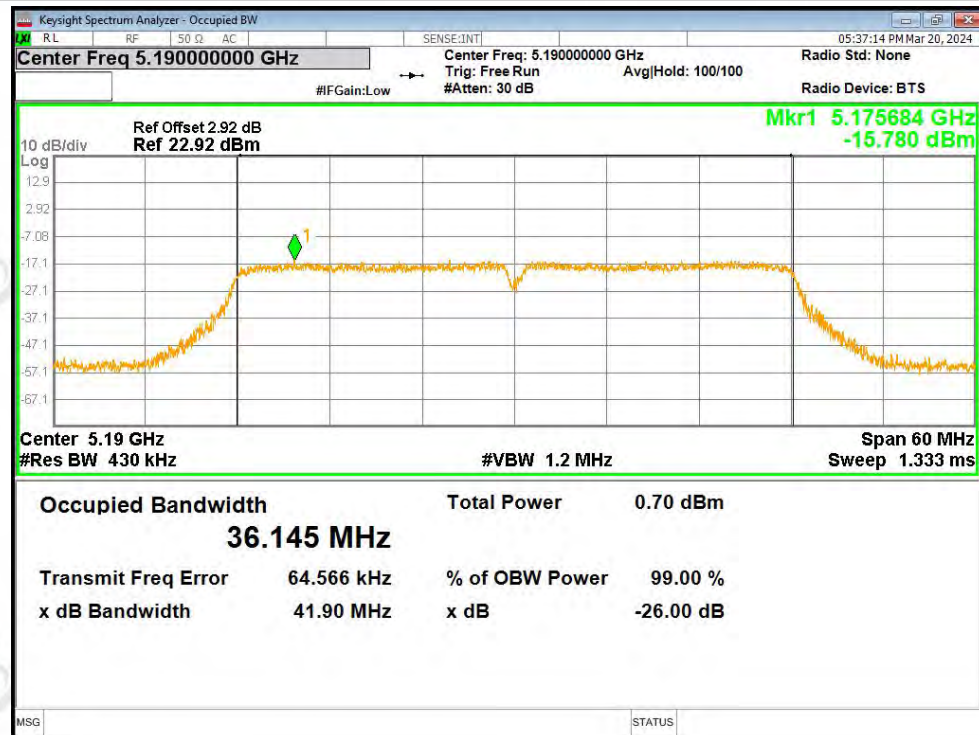


OBW NVNT ac40 5230MHz Ant1

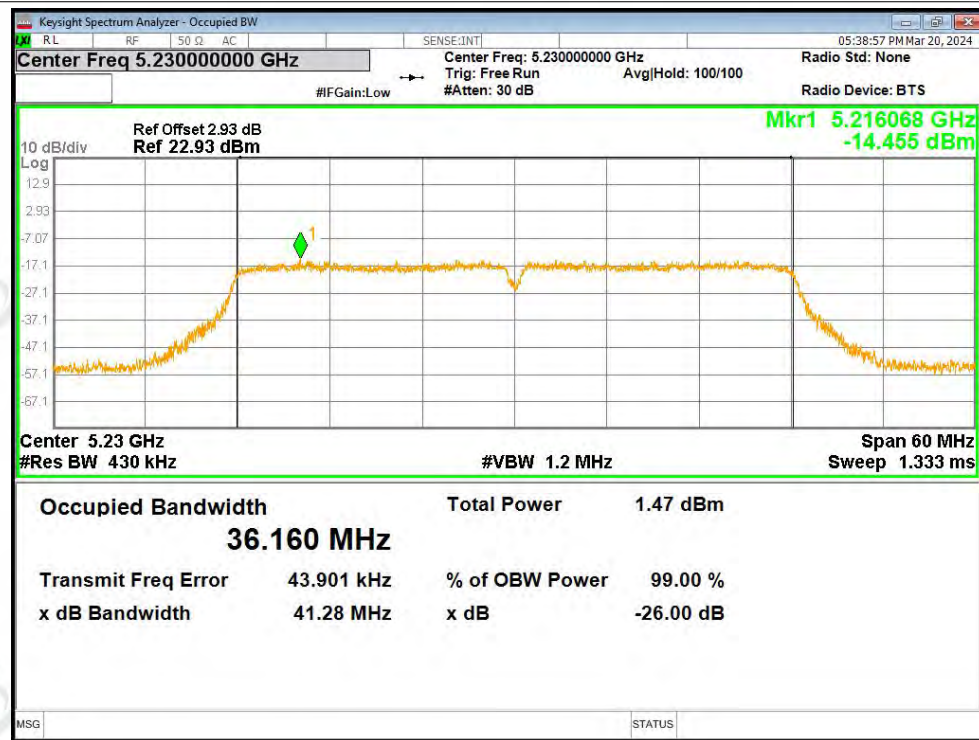




OBW NVNT ac40 5190MHz Ant2

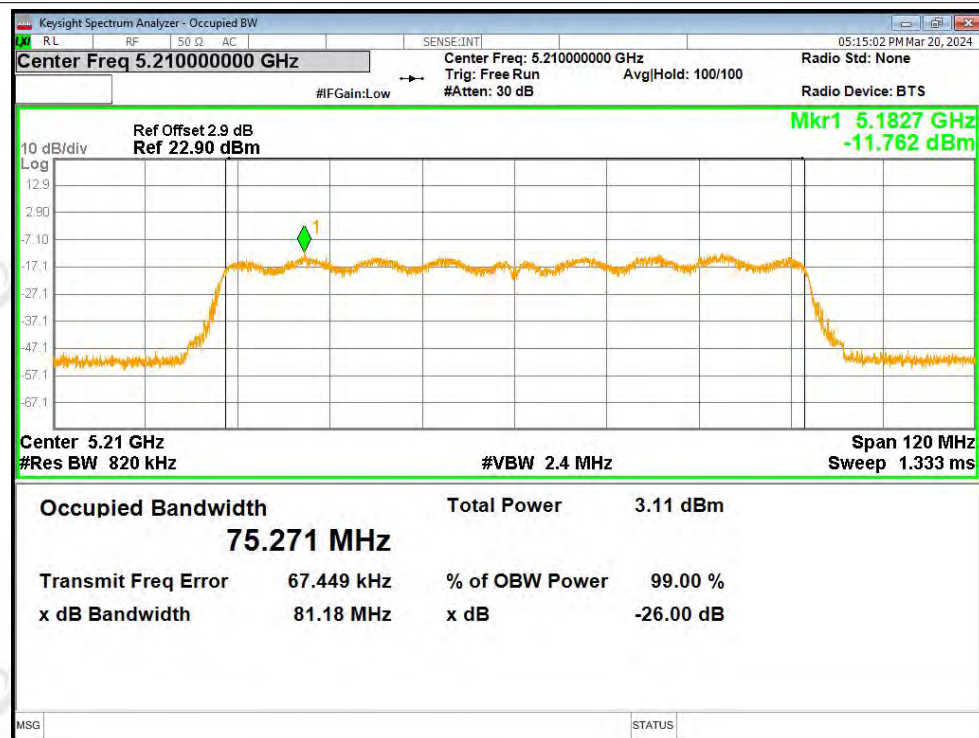


OBW NVNT ac40 5230MHz Ant2

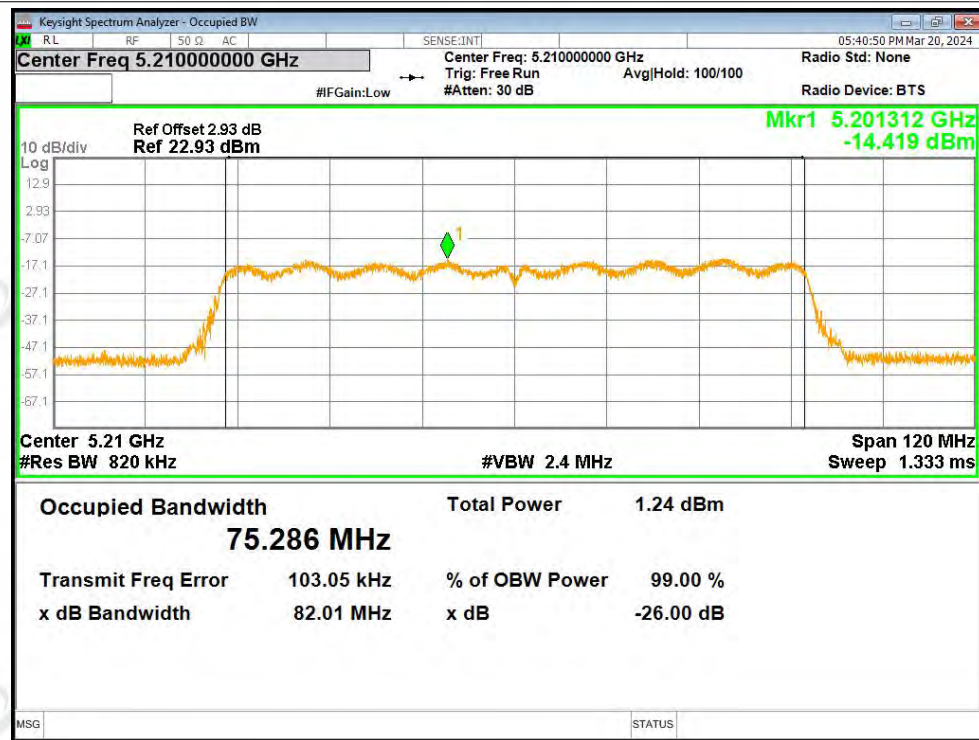




OBW NVNT ac80 5210MHz Ant1

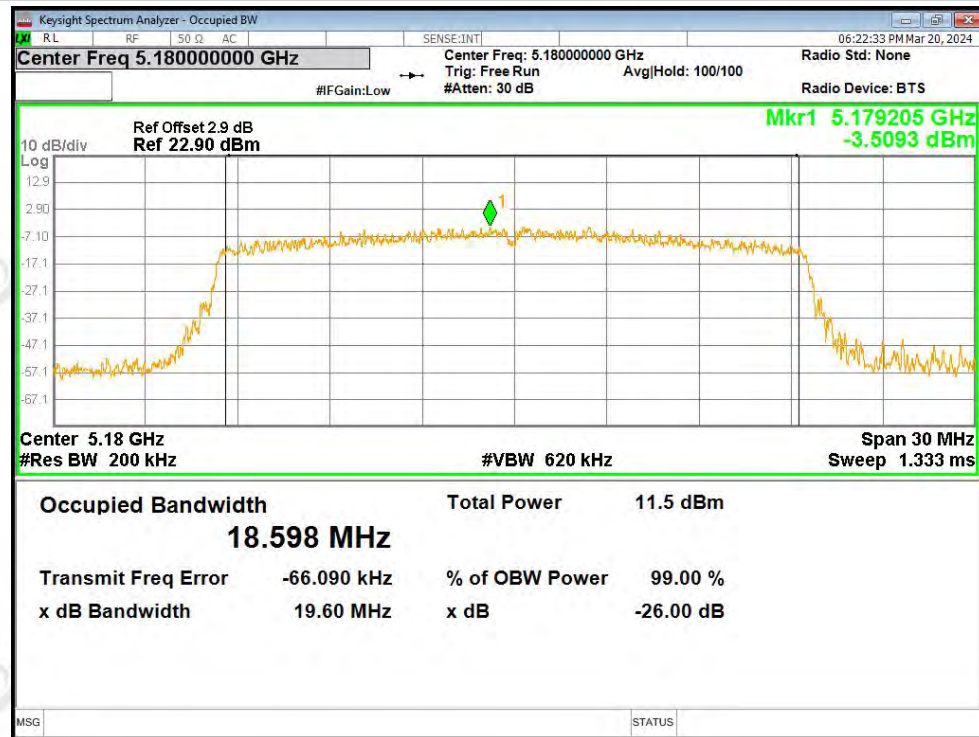


OBW NVNT ac80 5210MHz Ant2

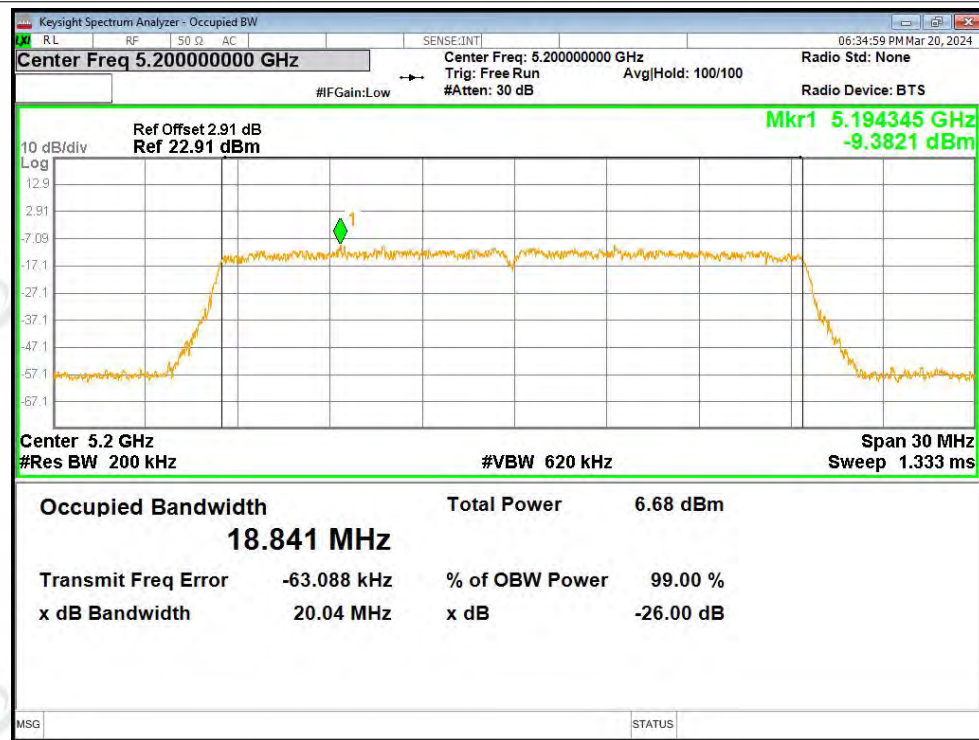




OBW NVNT ax20 5180MHz Ant1

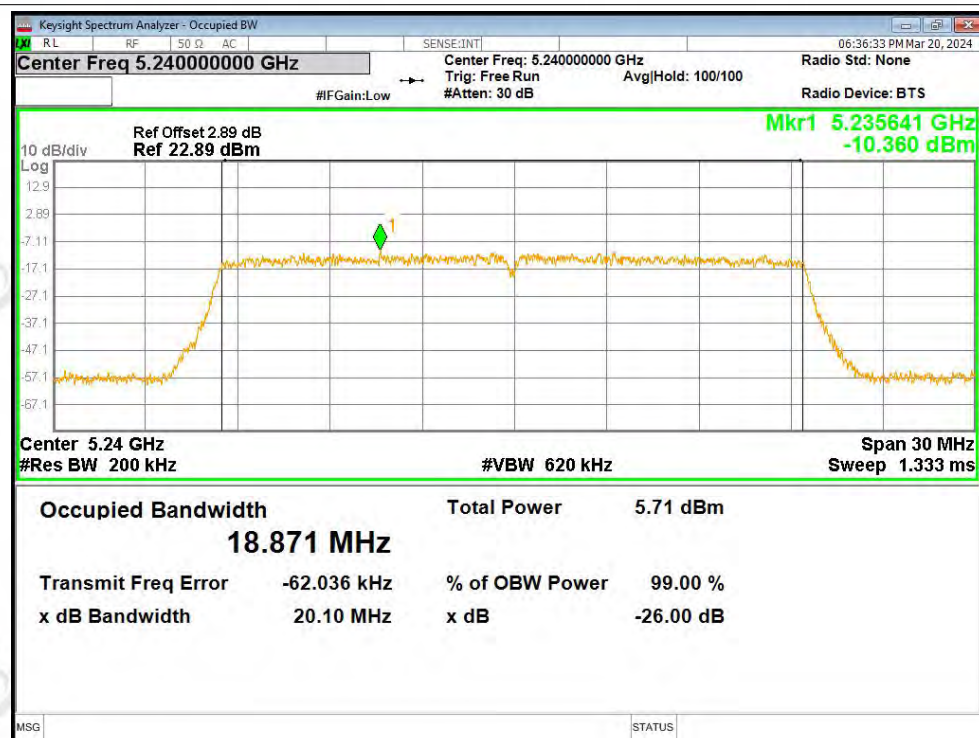


OBW NVNT ax20 5200MHz Ant1

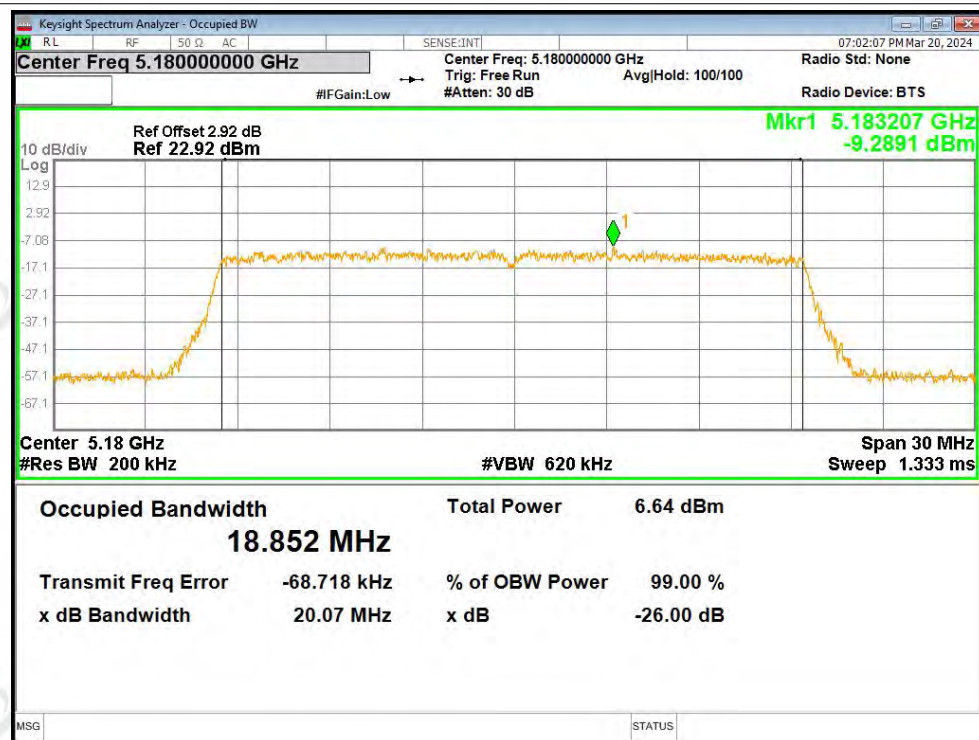




OBW NVNT ax20 5240MHz Ant1

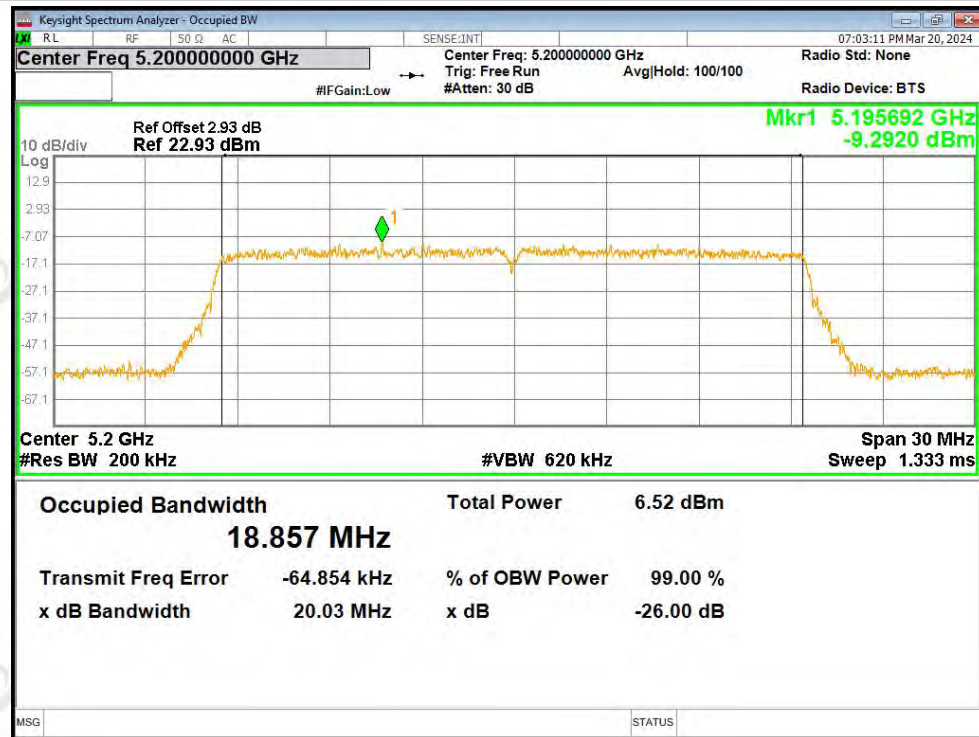


OBW NVNT ax20 5180MHz Ant2

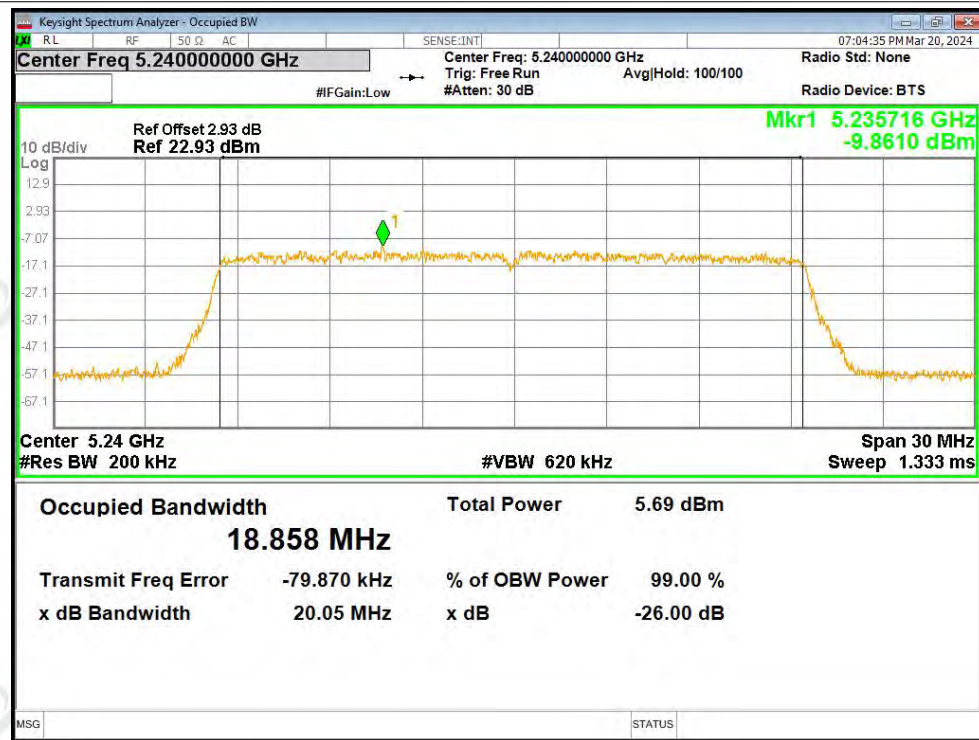




OBW NVNT ax20 5200MHz Ant2

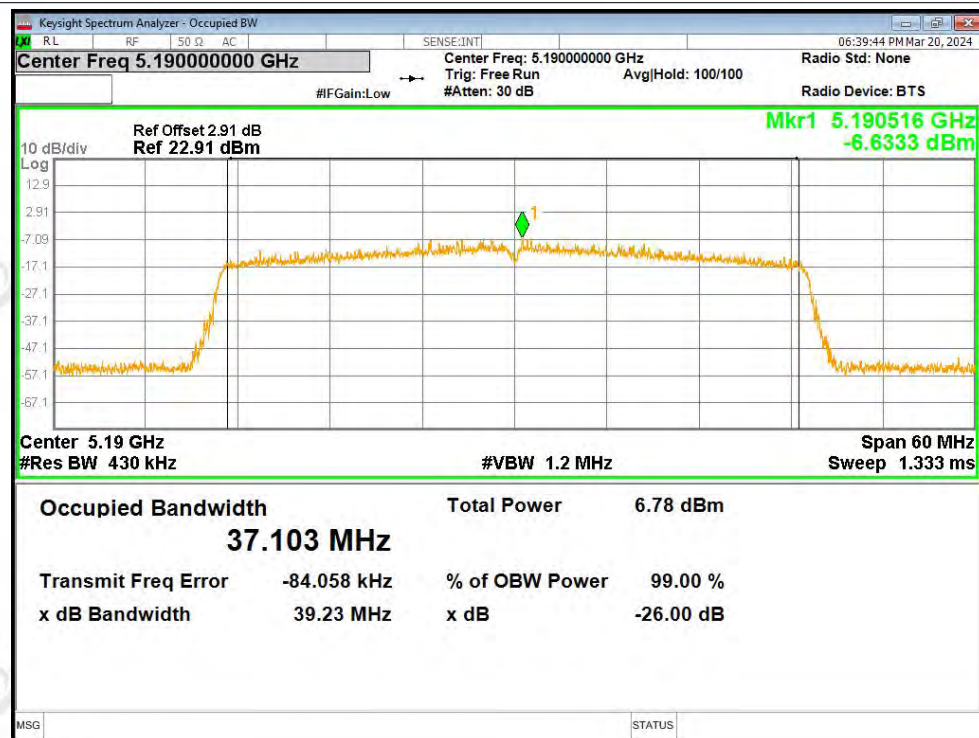


OBW NVNT ax20 5240MHz Ant2

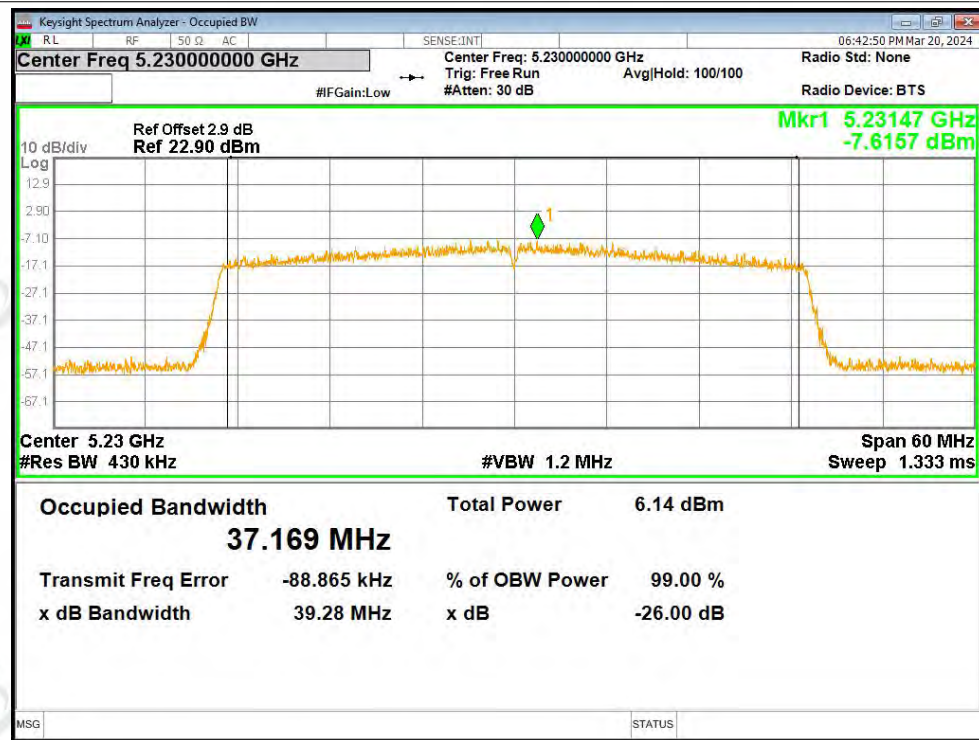




OBW NVNT ax40 5190MHz Ant1

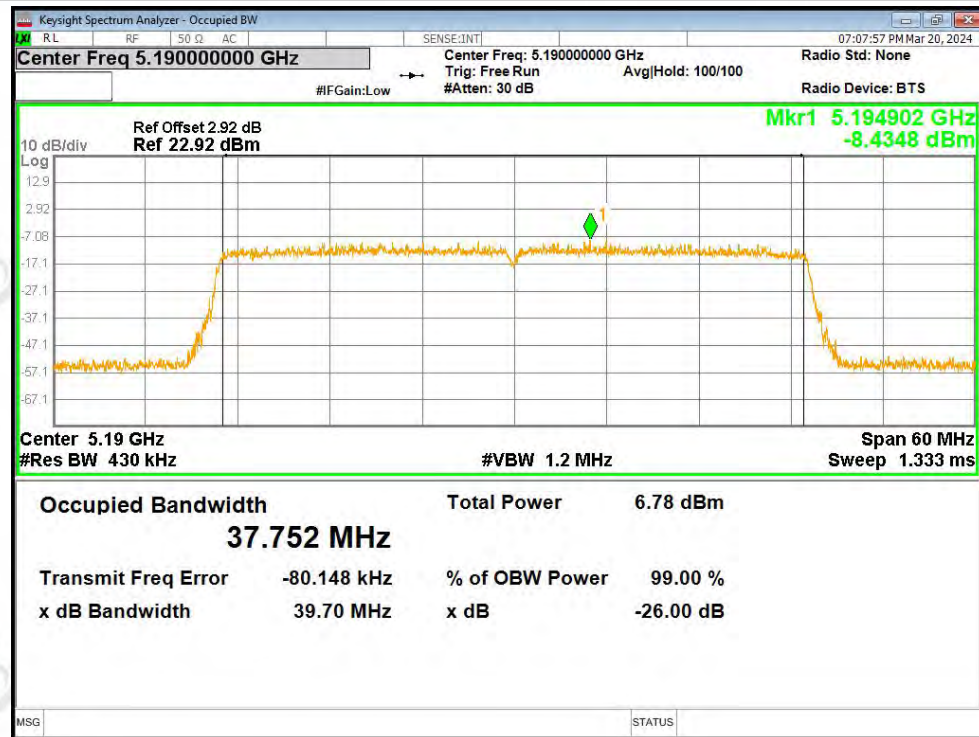


OBW NVNT ax40 5230MHz Ant1

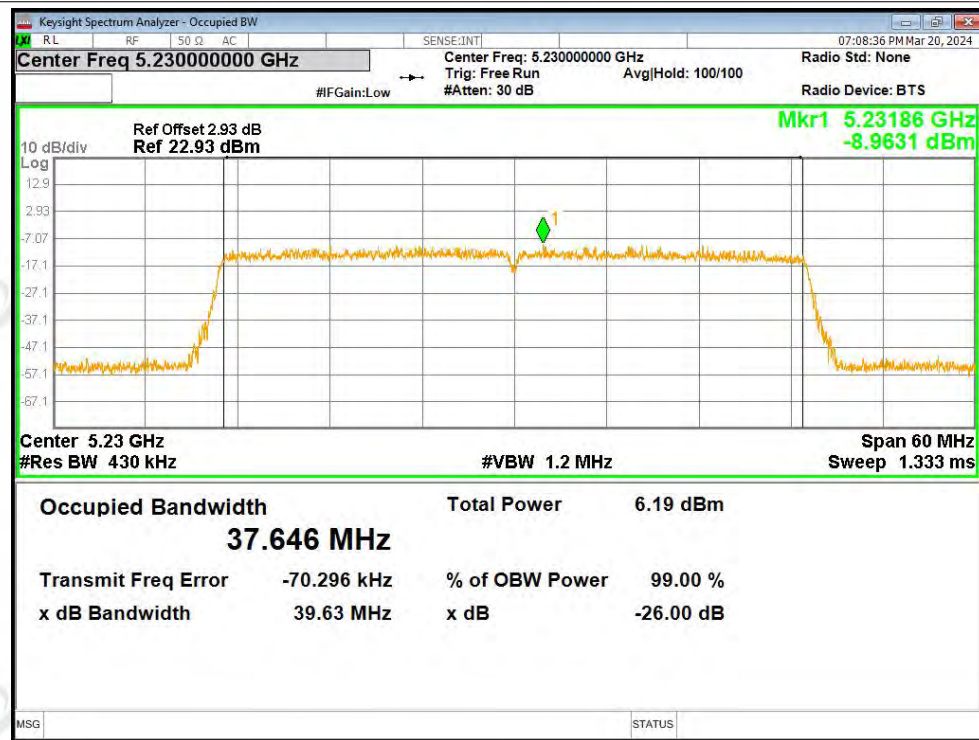




OBW NVNT ax40 5190MHz Ant2

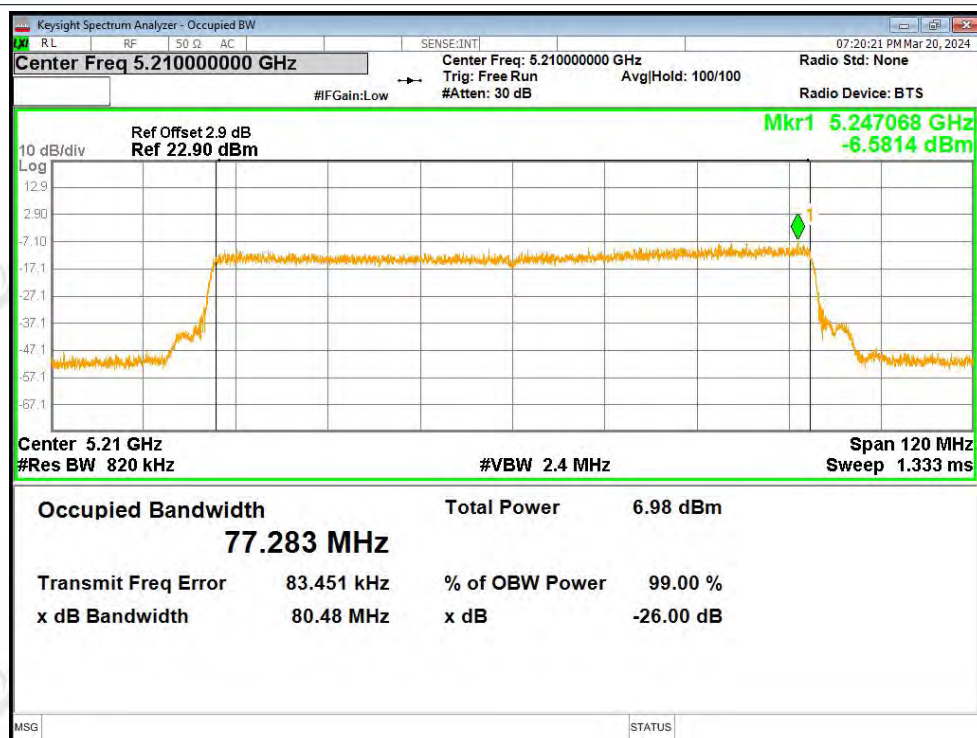


OBW NVNT ax40 5230MHz Ant2





OBW NVNT ax80 5210MHz Ant1



OBW NVNT ax80 5210MHz Ant2

