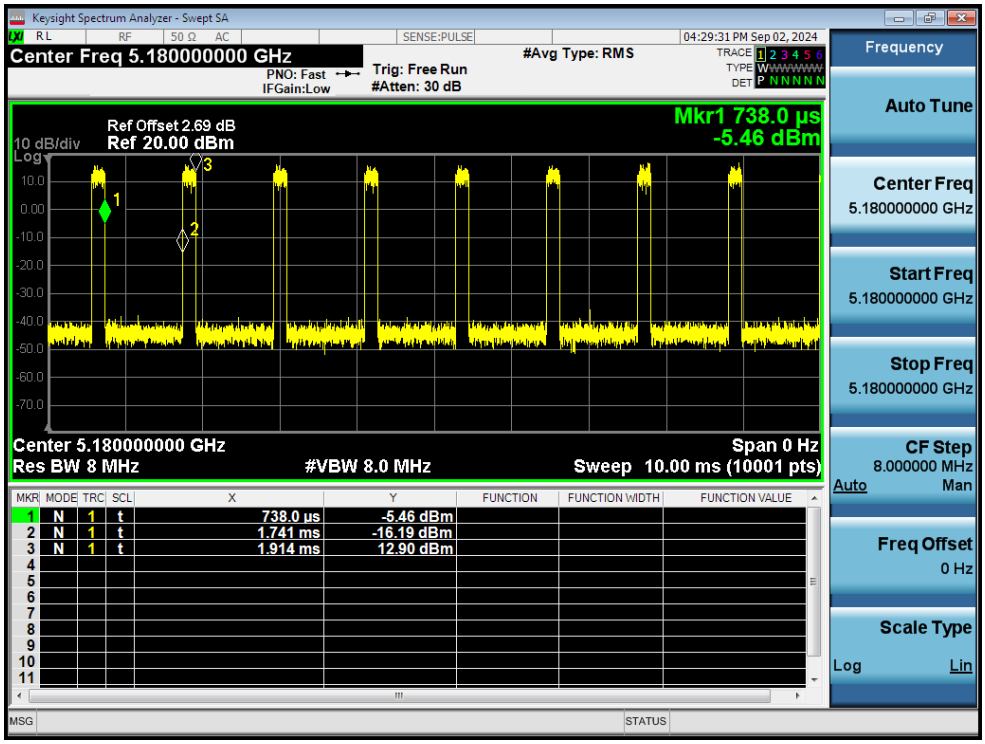
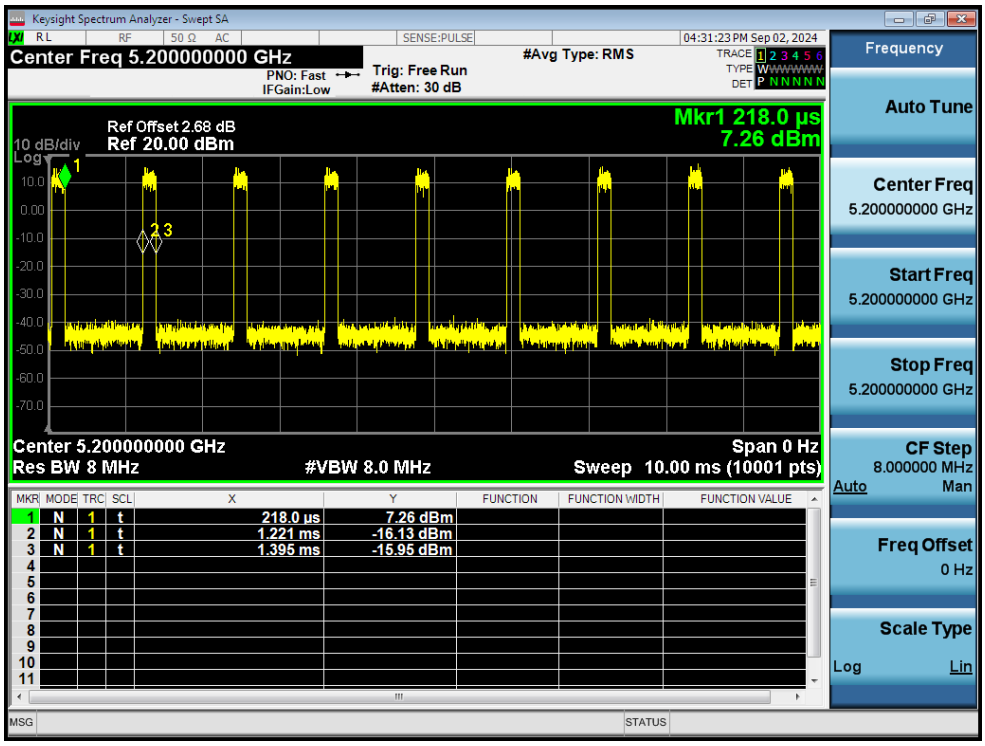
Test Data Appendix of Test Report

1. Duty Cycle

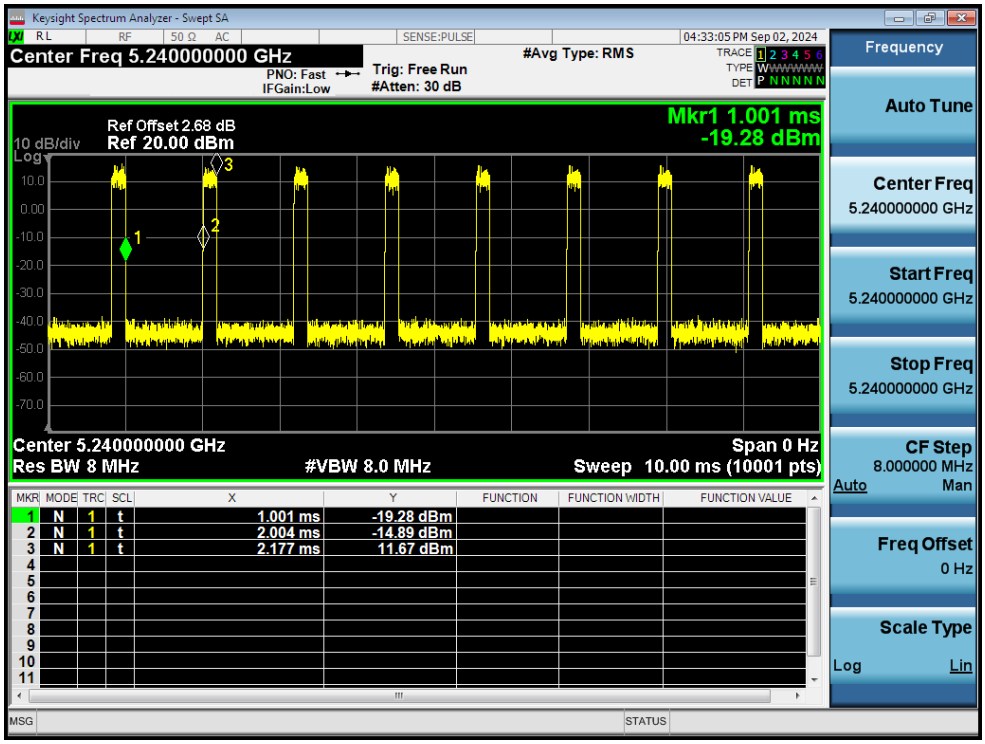
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	14.71	8.32	5.78
NVNT	a	5200	Ant1	14.78	8.3	5.75
NVNT	a	5240	Ant1	14.71	8.32	5.78
NVNT	n20	5180	Ant1	13.83	8.59	6.21
NVNT	n20	5200	Ant1	13.91	8.57	6.17
NVNT	n20	5240	Ant1	13.82	8.59	6.21
NVNT	n40	5190	Ant1	8.82	10.55	10.31
NVNT	n40	5230	Ant1	8.9	10.51	10.2
NVNT	ac20	5180	Ant1	12.71	8.96	6.85
NVNT	ac20	5200	Ant1	12.62	8.99	6.9
NVNT	ac20	5240	Ant1	12.62	8.99	6.9
NVNT	ac40	5190	Ant1	8.23	10.85	11.11
NVNT	ac40	5230	Ant1	8.15	10.89	11.24
NVNT	ac80	5210	Ant1	6.08	12.16	15.38



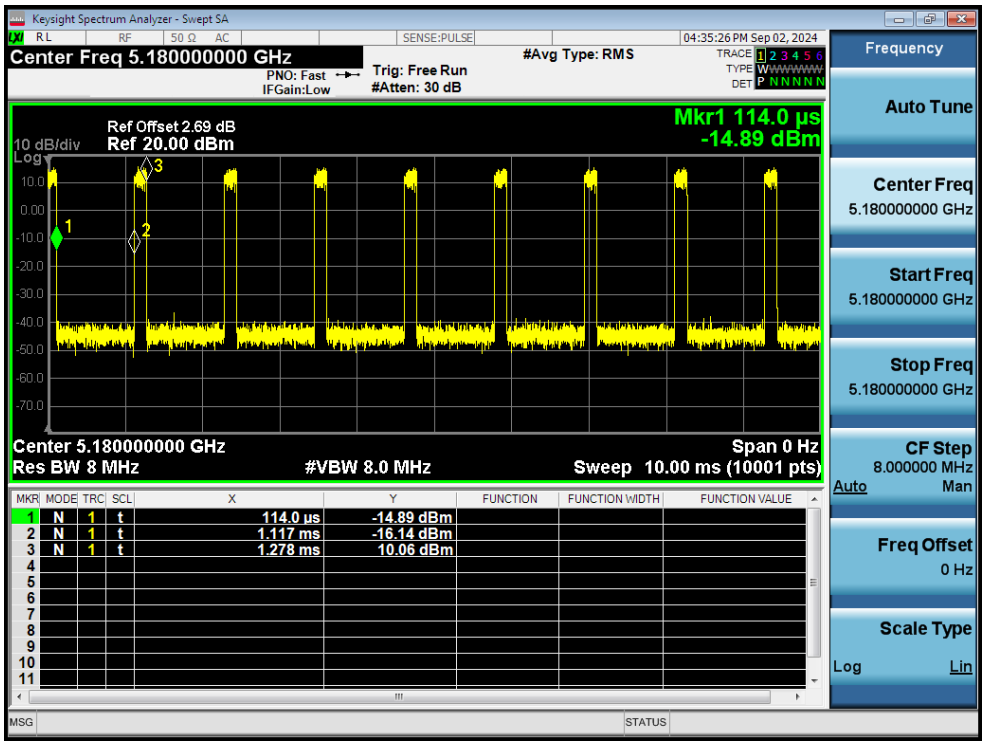
Duty Cycle NVNT a 5180MHz Ant1



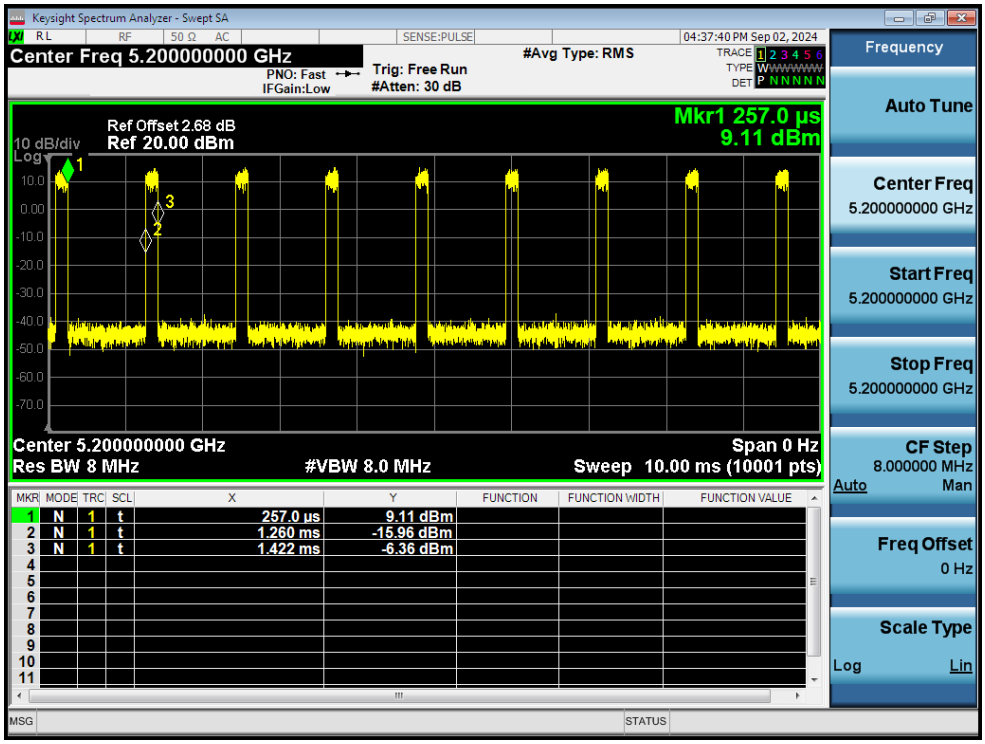
Duty Cycle NVNT a 5200MHz Ant1



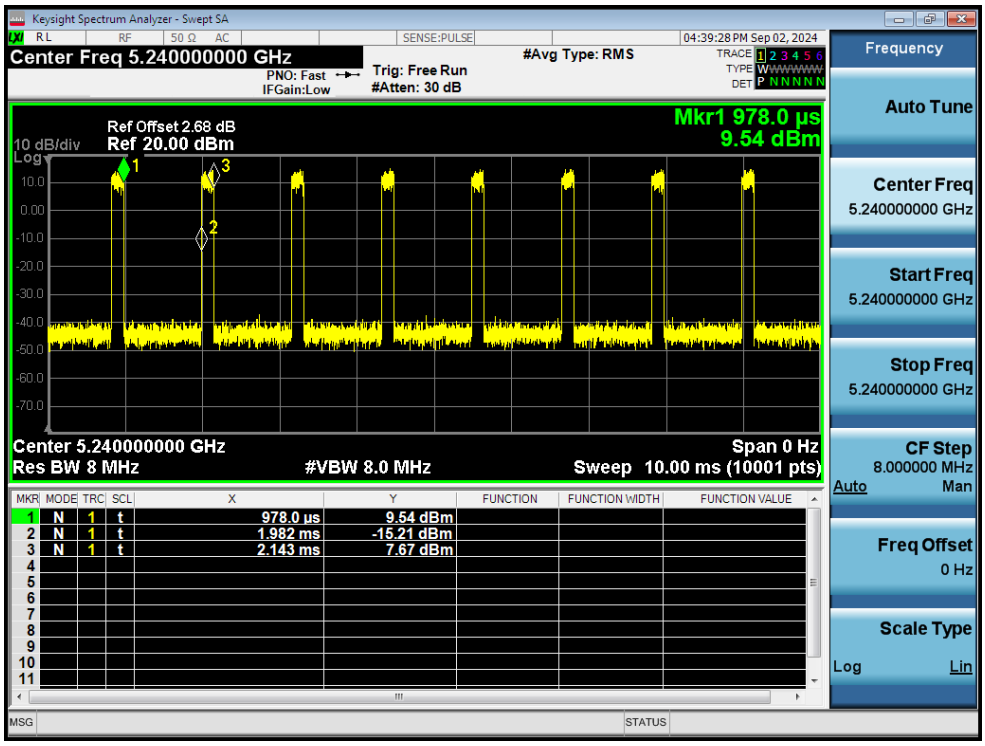
Duty Cycle NVNT a 5240MHz Ant1



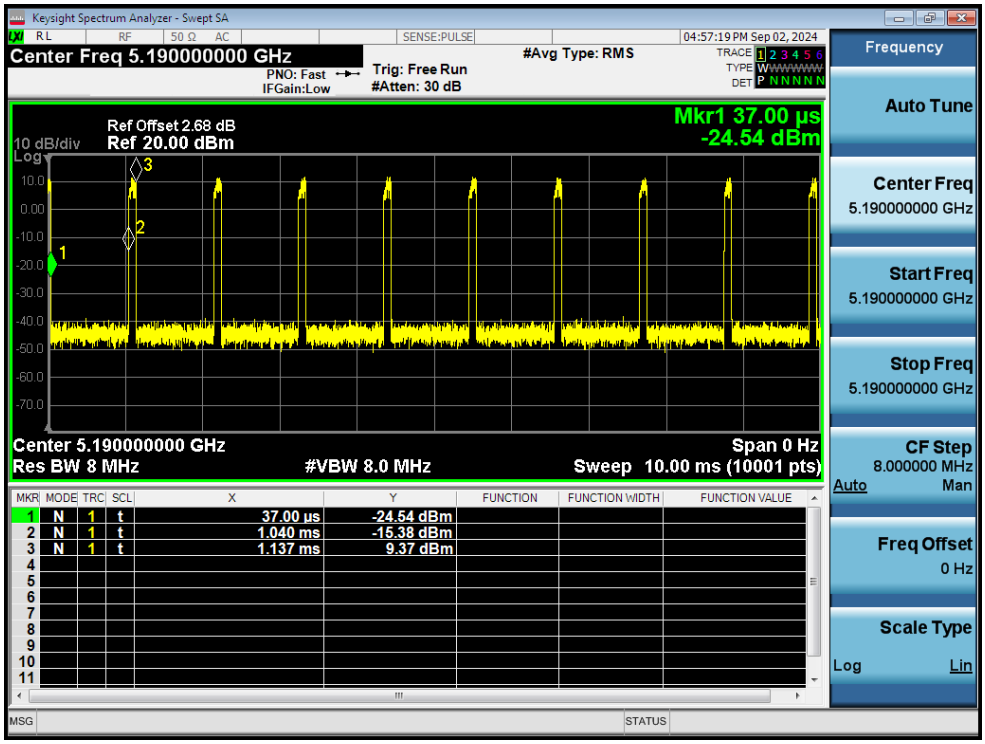
Duty Cycle NVNT n20 5180MHz Ant1



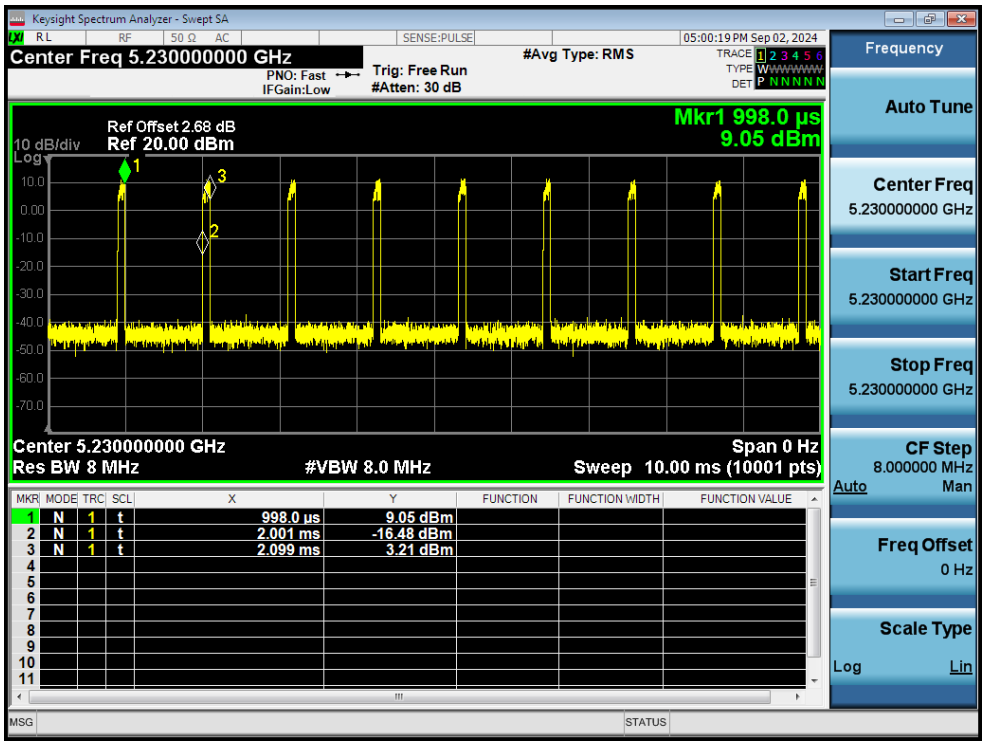
Duty Cycle NVNT n20 5200MHz Ant1



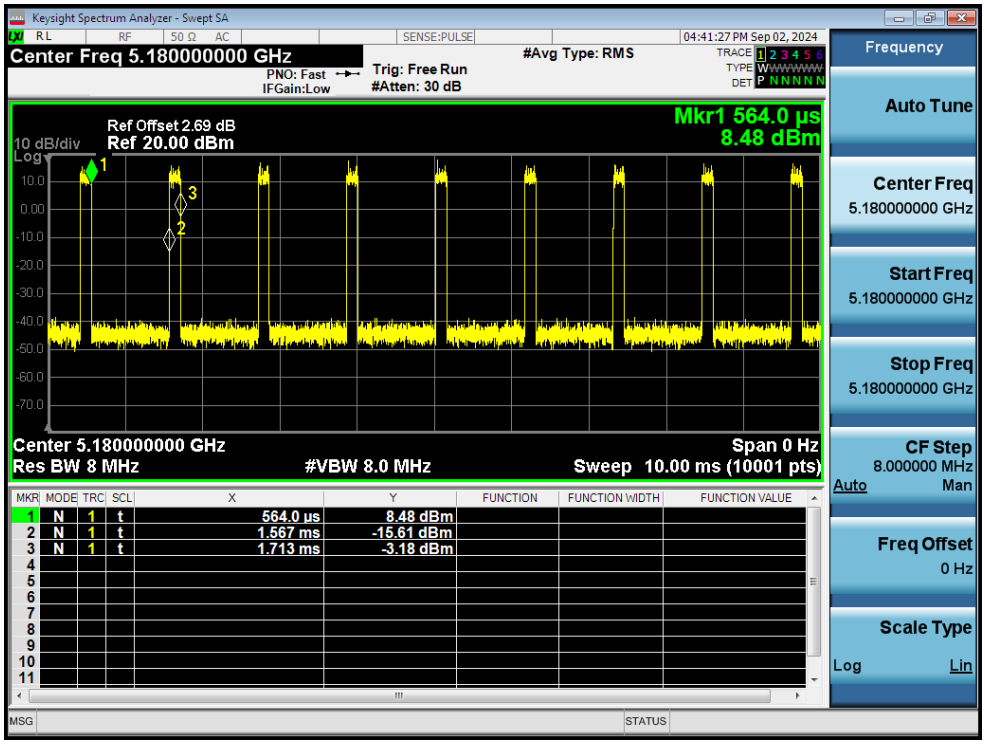
Duty Cycle NVNT n20 5240MHz Ant1



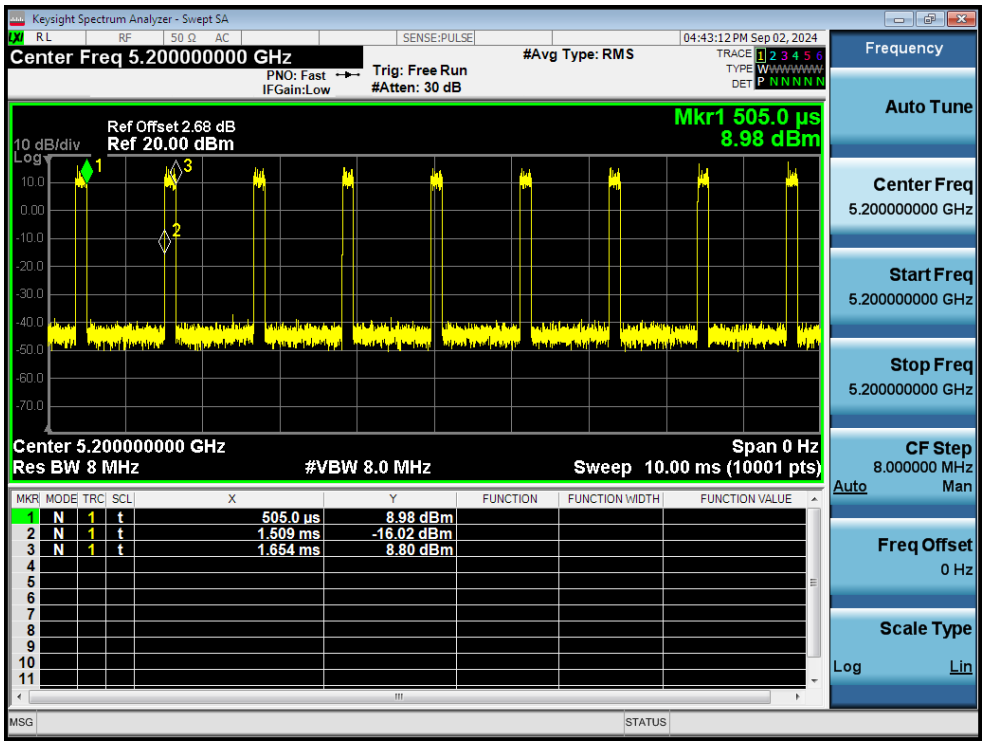
Duty Cycle NVNT n40 5190MHz Ant1



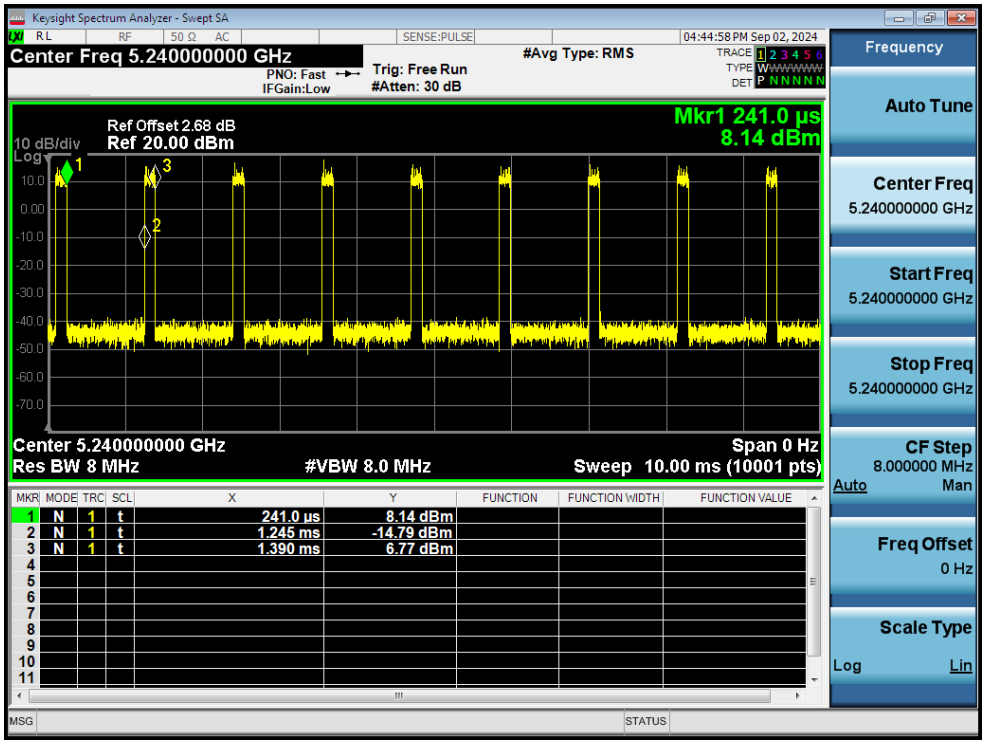
Duty Cycle NVNT n40 5230MHz Ant1



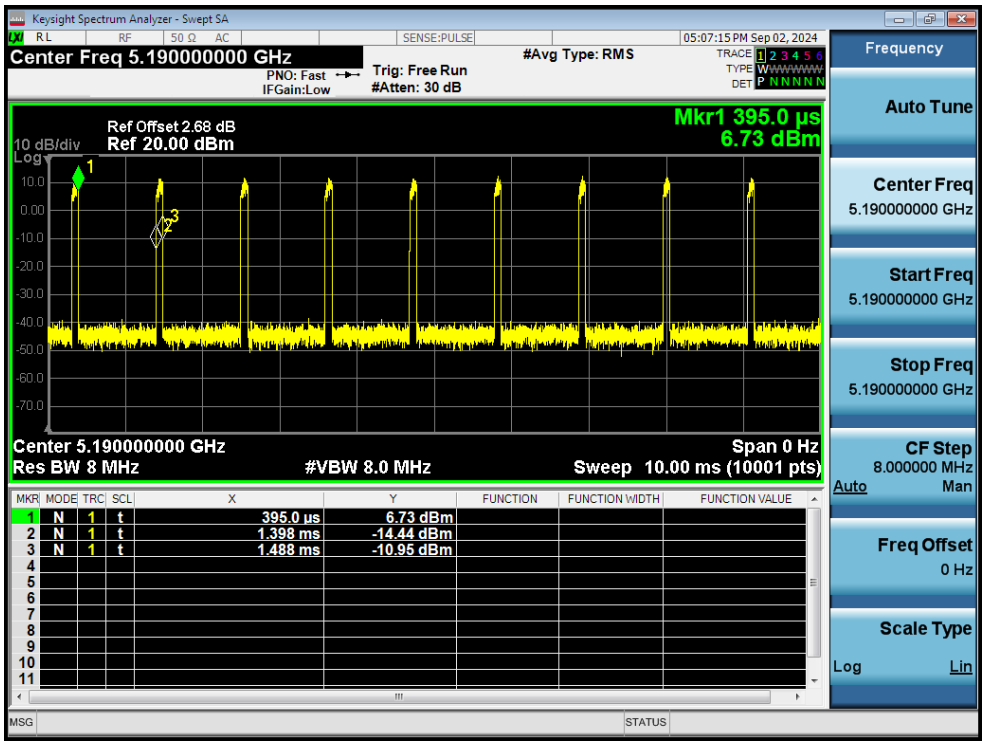
Duty Cycle NVNT ac20 5180MHz Ant1



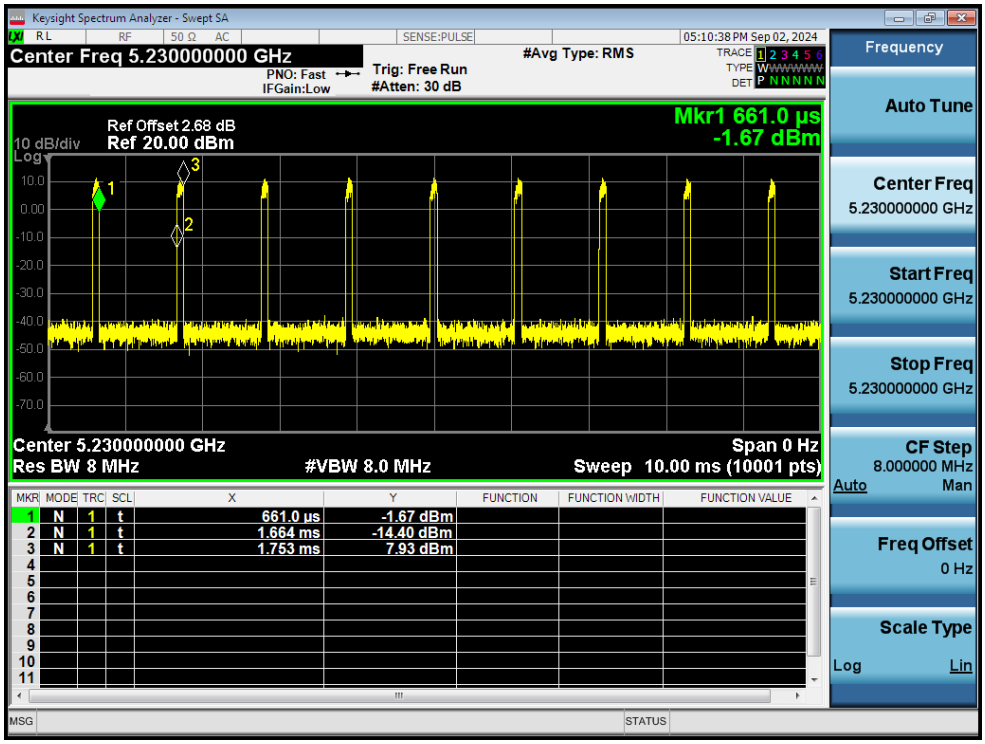
Duty Cycle NVNT ac20 5200MHz Ant1



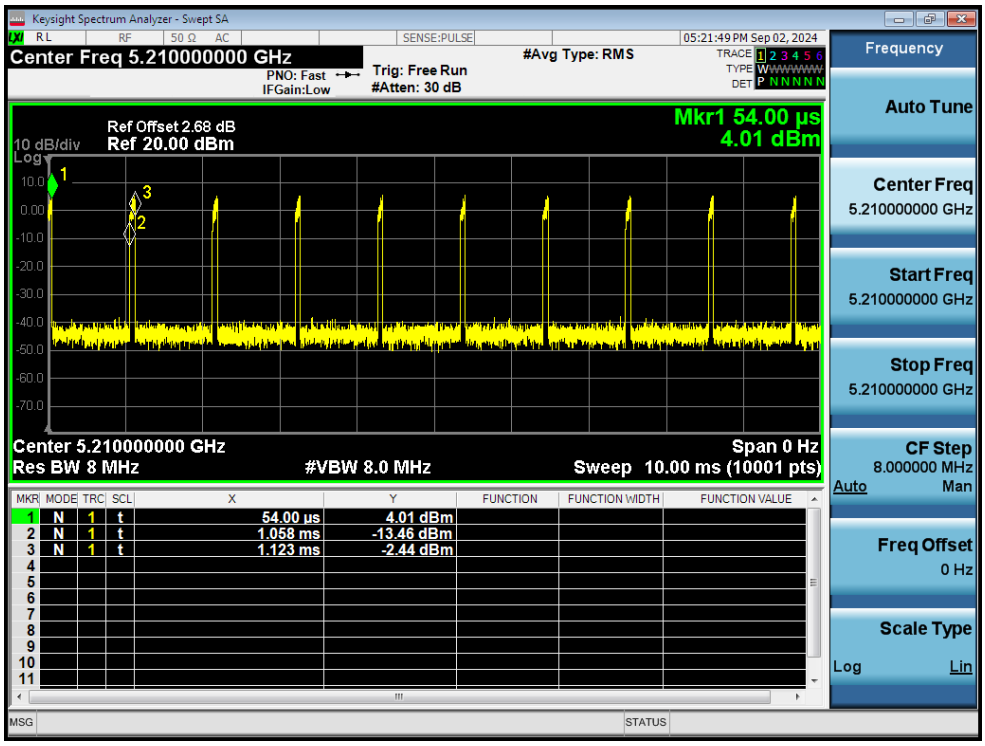
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



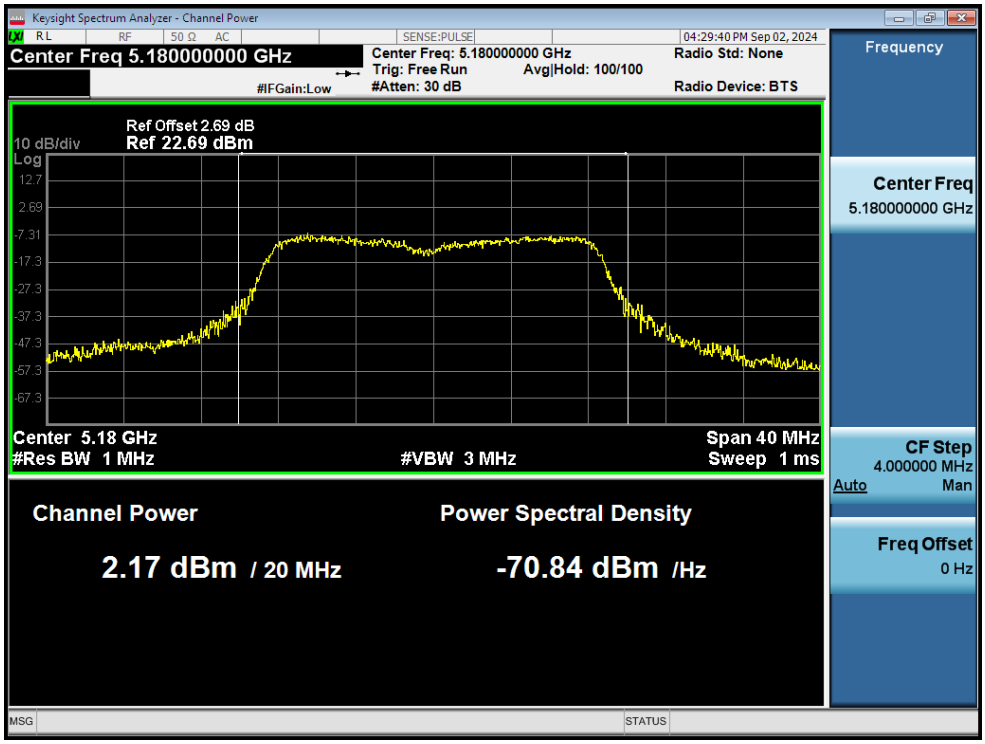
Duty Cycle NVNT ac40 5230MHz Ant1



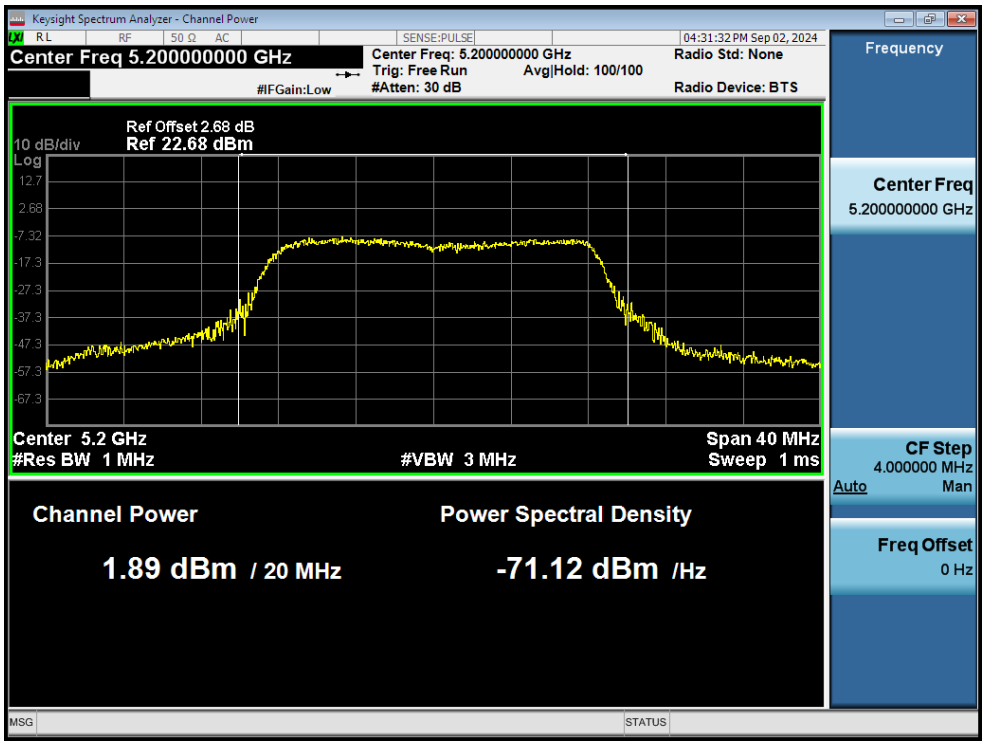
Duty Cycle NVNT ac80 5210MHz Ant1

2. Maximum Conducted Output Power

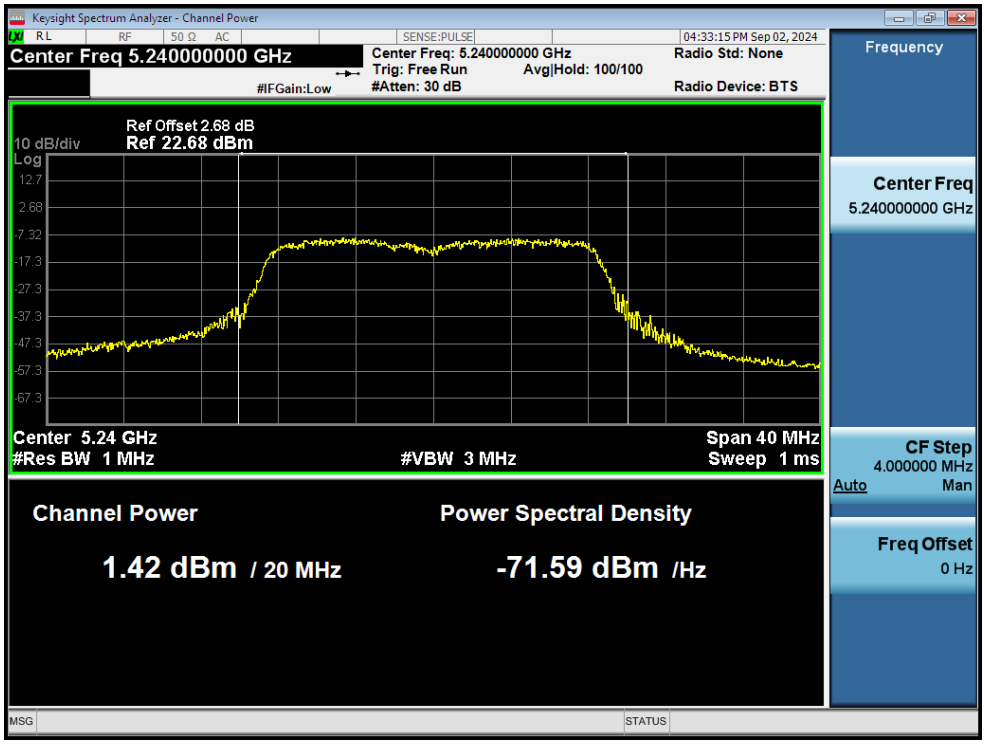
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.17	8.32	10.49	24	Pass
NVNT	a	5200	Ant1	1.89	8.3	10.19	24	Pass
NVNT	a	5240	Ant1	1.42	8.32	9.74	24	Pass
NVNT	n20	5180	Ant1	1.39	8.59	9.98	24	Pass
NVNT	n20	5200	Ant1	1.44	8.57	10.01	24	Pass
NVNT	n20	5240	Ant1	1.19	8.59	9.78	24	Pass
NVNT	n40	5190	Ant1	-0.04	10.55	10.51	24	Pass
NVNT	n40	5230	Ant1	0.01	10.51	10.52	24	Pass
NVNT	ac20	5180	Ant1	1.96	8.96	10.92	24	Pass
NVNT	ac20	5200	Ant1	0.65	8.99	9.64	24	Pass
NVNT	ac20	5240	Ant1	1.09	8.99	10.08	24	Pass
NVNT	ac40	5190	Ant1	0.33	10.85	11.18	24	Pass
NVNT	ac40	5230	Ant1	-1.17	10.89	9.72	24	Pass
NVNT	ac80	5210	Ant1	-4.56	12.16	7.6	24	Pass



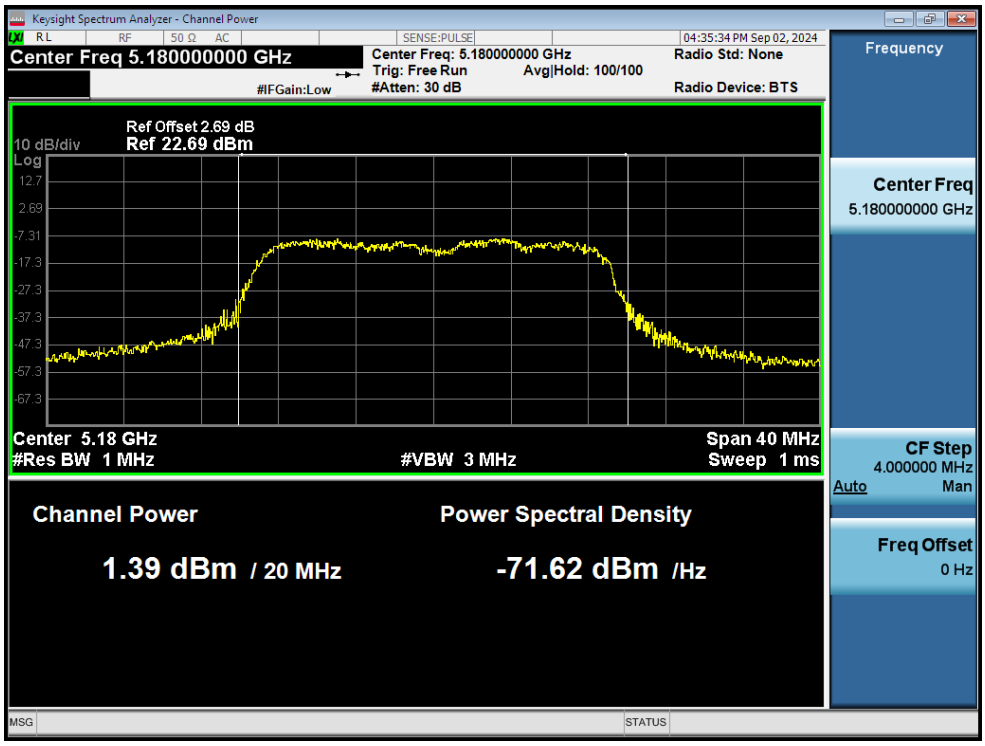
Power NVNT a 5180MHz Ant1



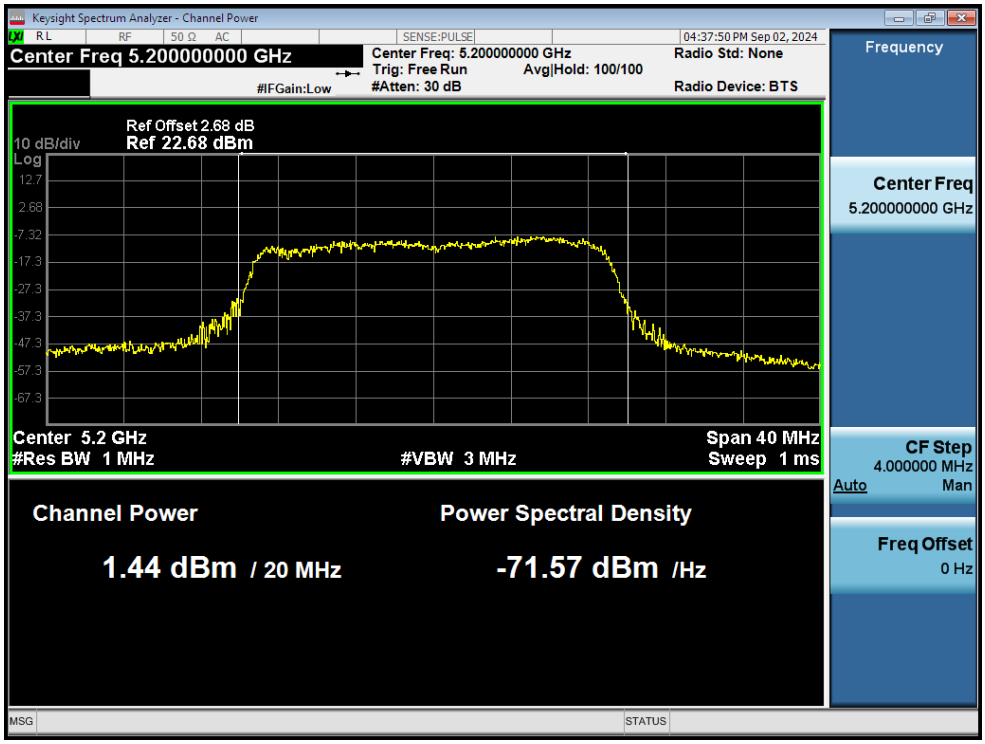
Power NVNT a 5200MHz Ant1



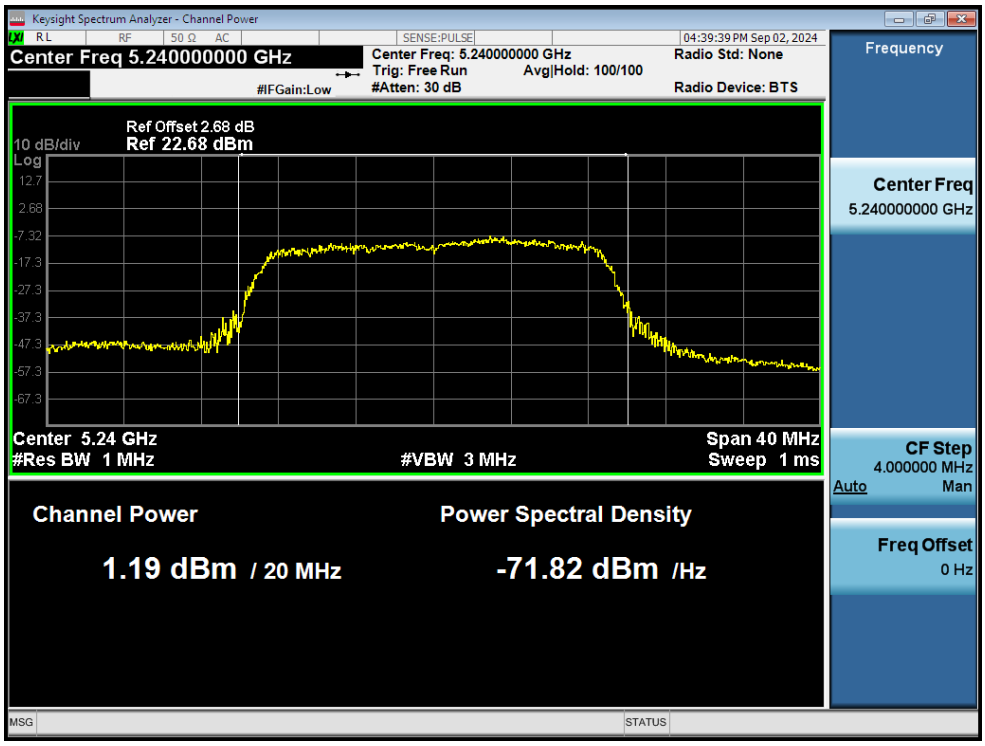
Power NVNT a 5240MHz Ant1



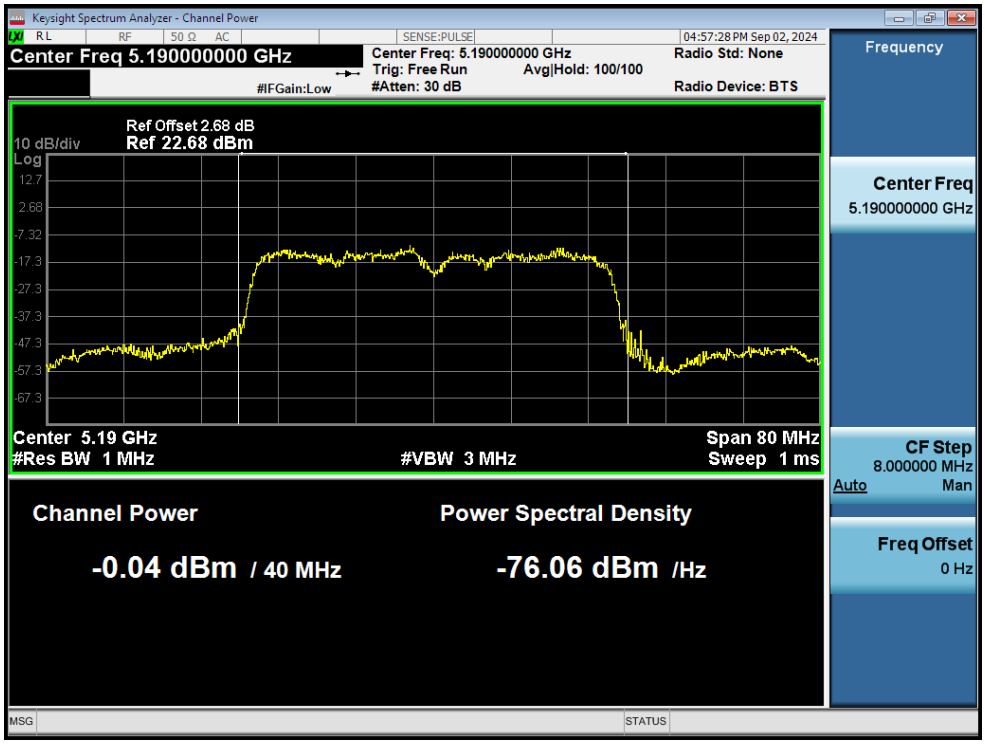
Power NVNT n20 5180MHz Ant1



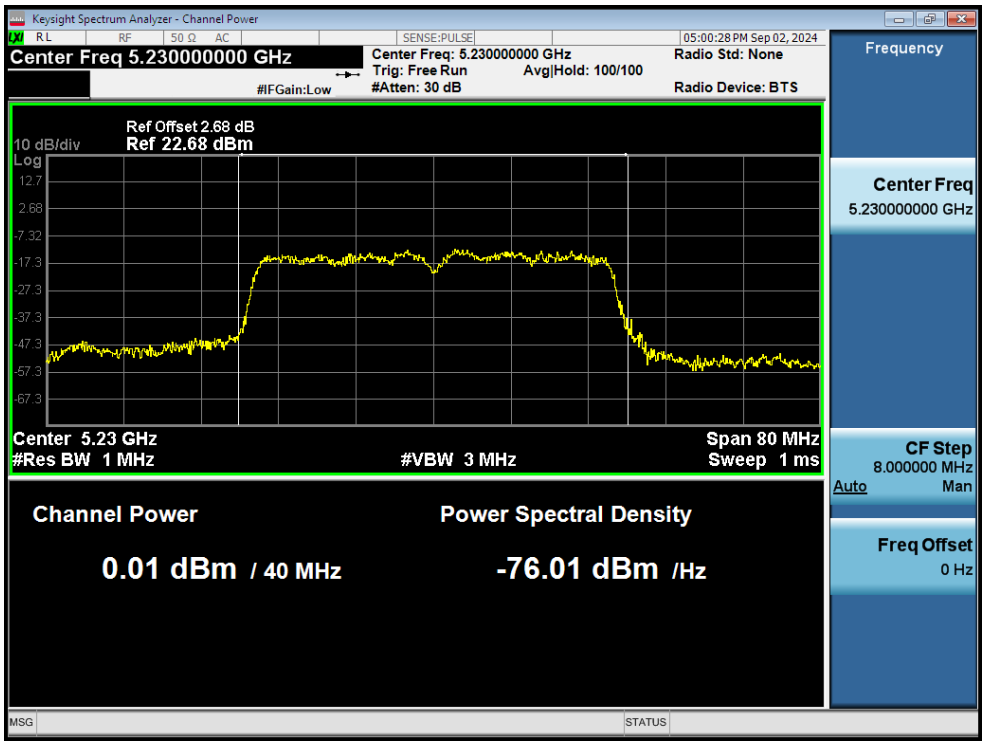
Power NVNT n20 5200MHz Ant1



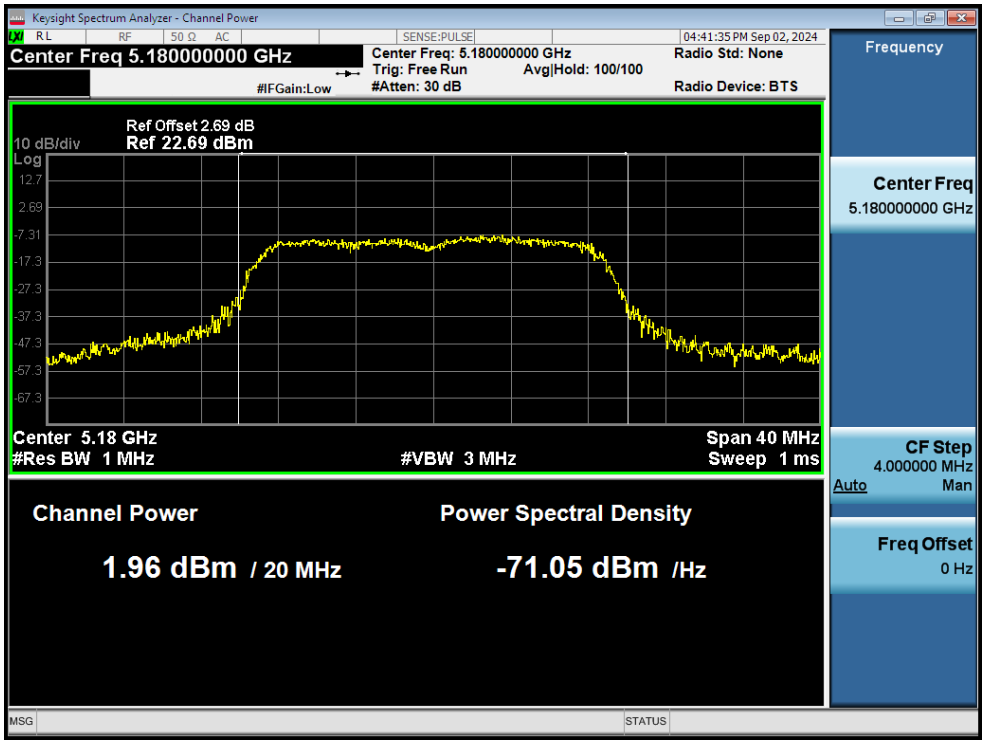
Power NVNT n20 5240MHz Ant1



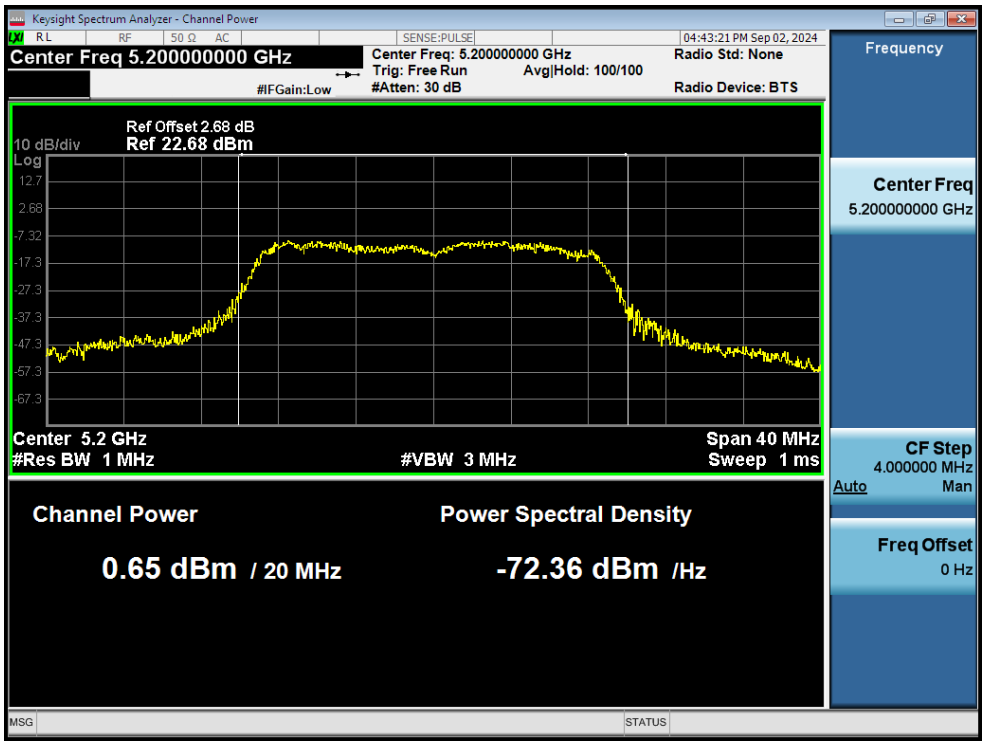
Power NVNT n40 5190MHz Ant1



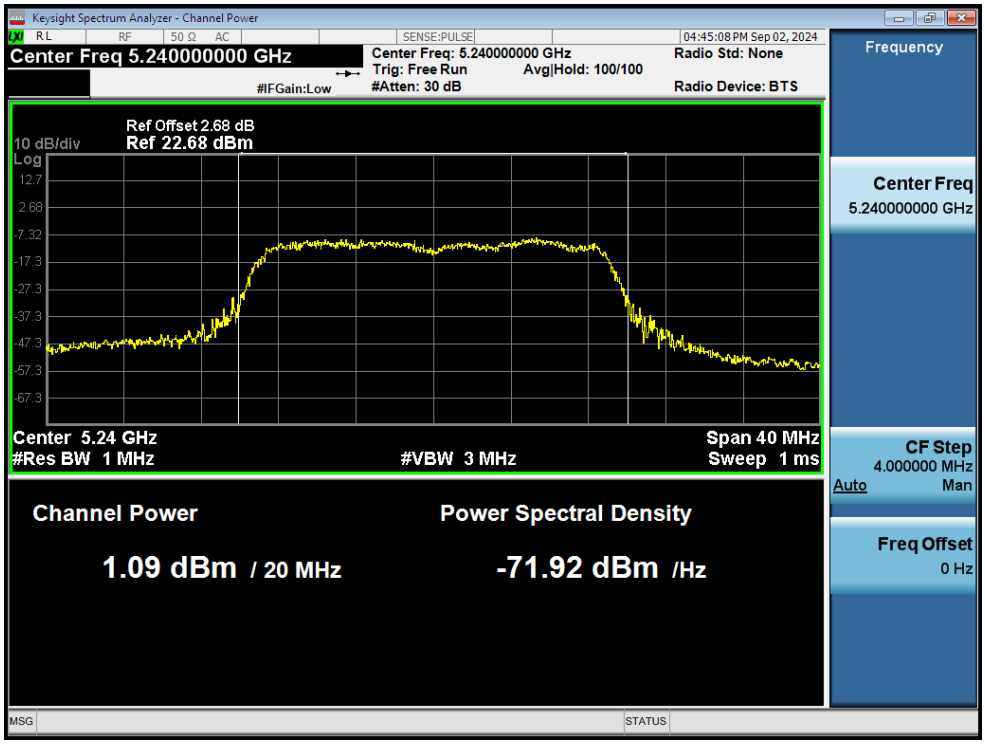
Power NVNT n40 5230MHz Ant1



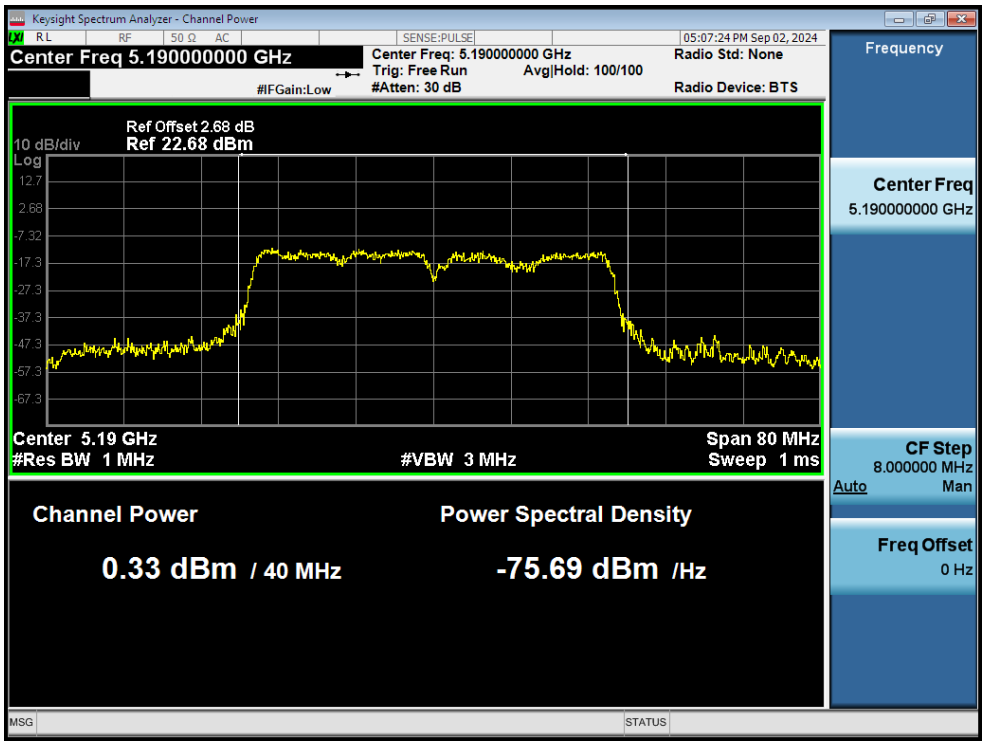
Power NVNT ac20 5180MHz Ant1



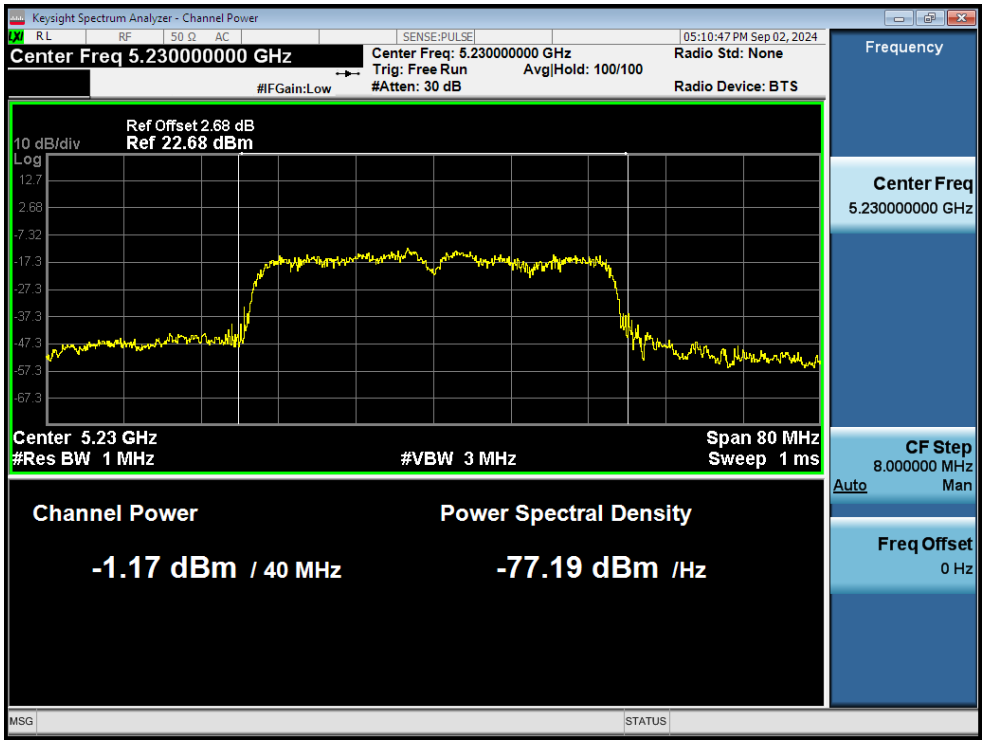
Power NVNT ac20 5200MHz Ant1



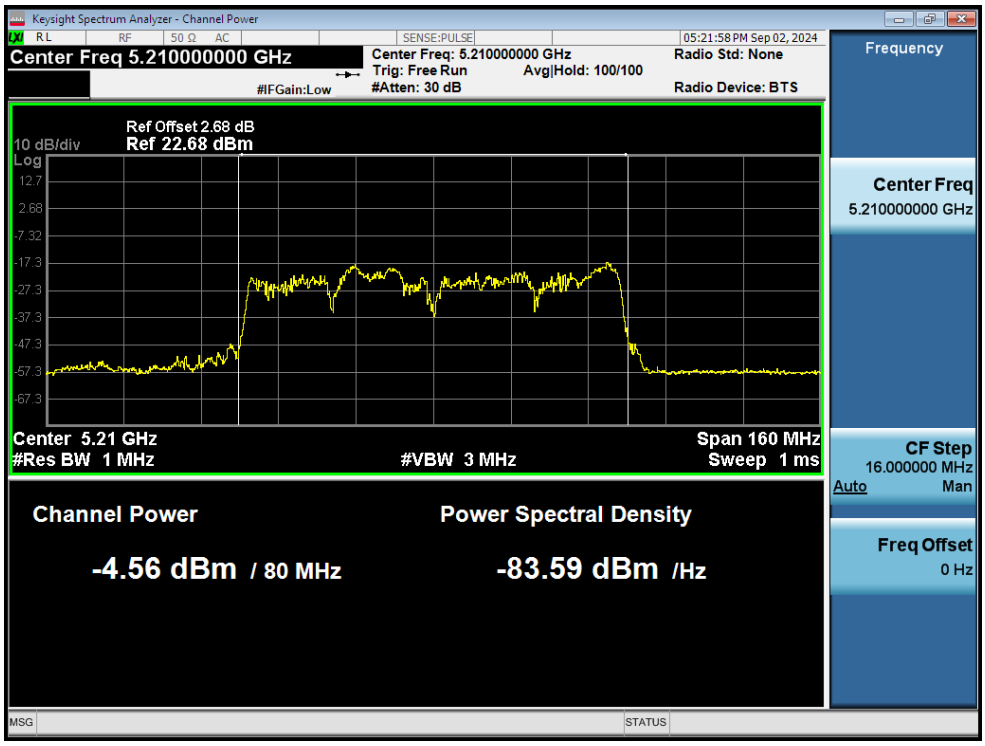
Power NVNT ac20 5240MHz Ant1



Power NVNT ac40 5190MHz Ant1



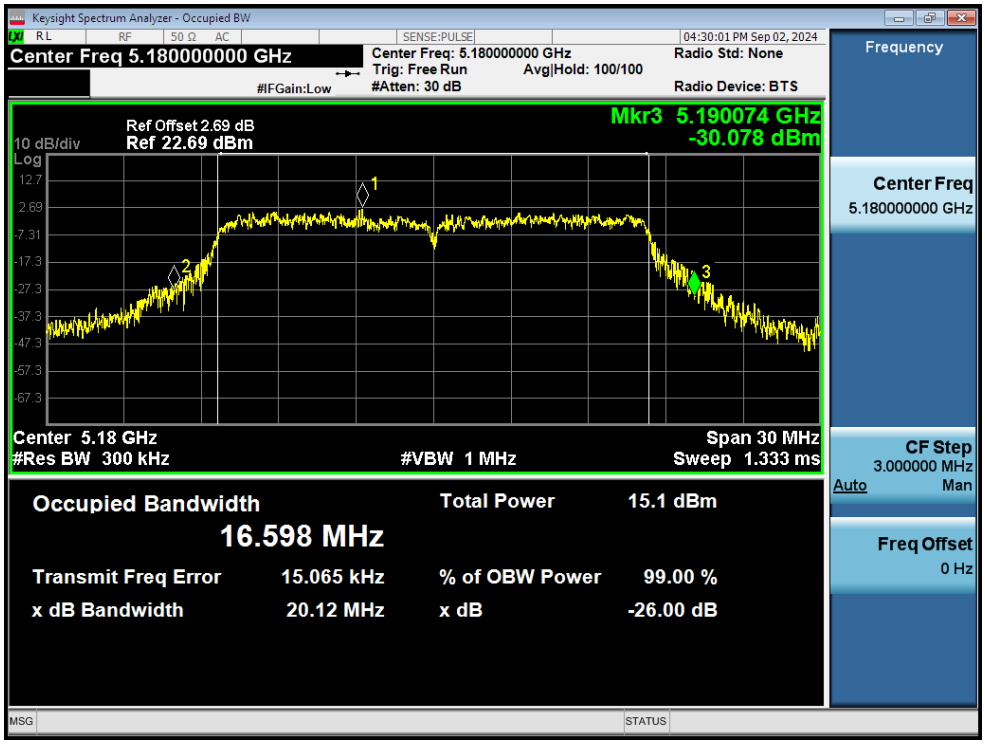
Power NVNT ac40 5230MHz Ant1



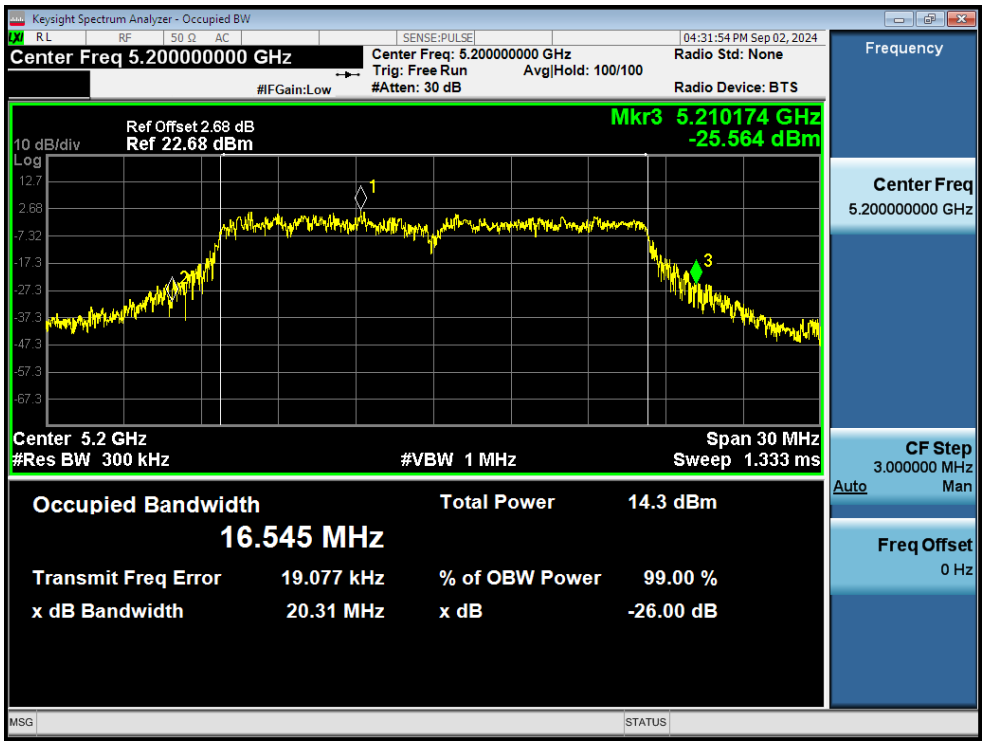
Power NVNT ac80 5210MHz Ant1

3. -26dB Bandwidth

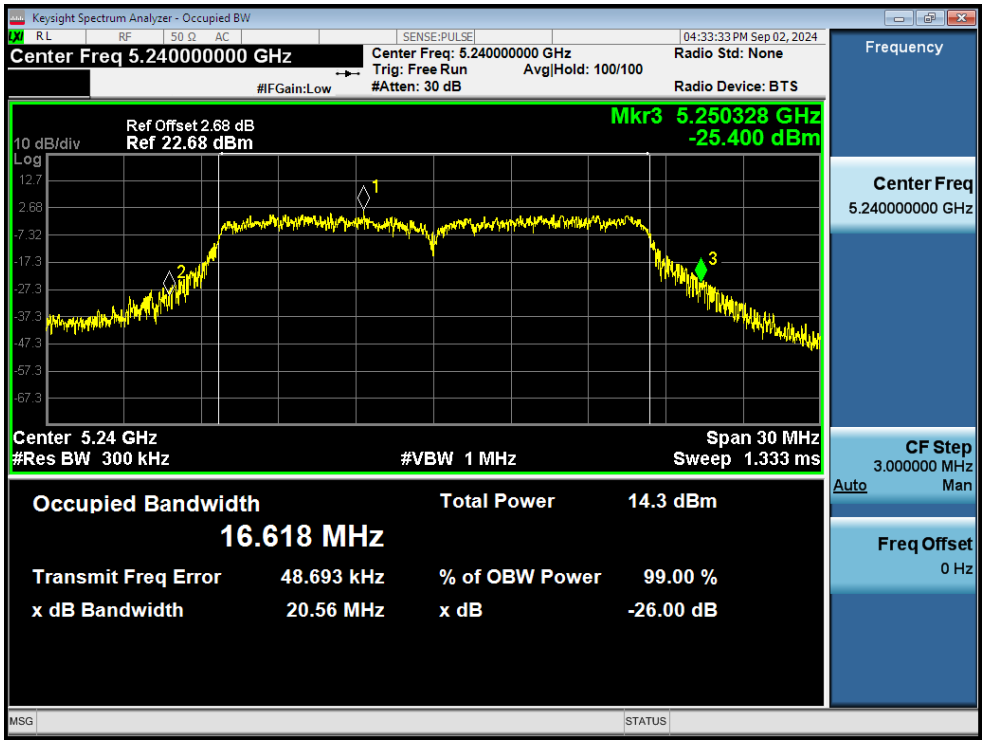
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.118	Pass
NVNT	a	5200	Ant1	20.31	Pass
NVNT	a	5240	Ant1	20.559	Pass
NVNT	n20	5180	Ant1	20.953	Pass
NVNT	n20	5200	Ant1	20.438	Pass
NVNT	n20	5240	Ant1	20.788	Pass
NVNT	n40	5190	Ant1	39.879	Pass
NVNT	n40	5230	Ant1	39.068	Pass
NVNT	ac20	5180	Ant1	21.635	Pass
NVNT	ac20	5200	Ant1	21.625	Pass
NVNT	ac20	5240	Ant1	21.391	Pass
NVNT	ac40	5190	Ant1	39.906	Pass
NVNT	ac40	5230	Ant1	39.228	Pass
NVNT	ac80	5210	Ant1	78.814	Pass



-26dB Bandwidth NVNT a 5180MHz Ant1

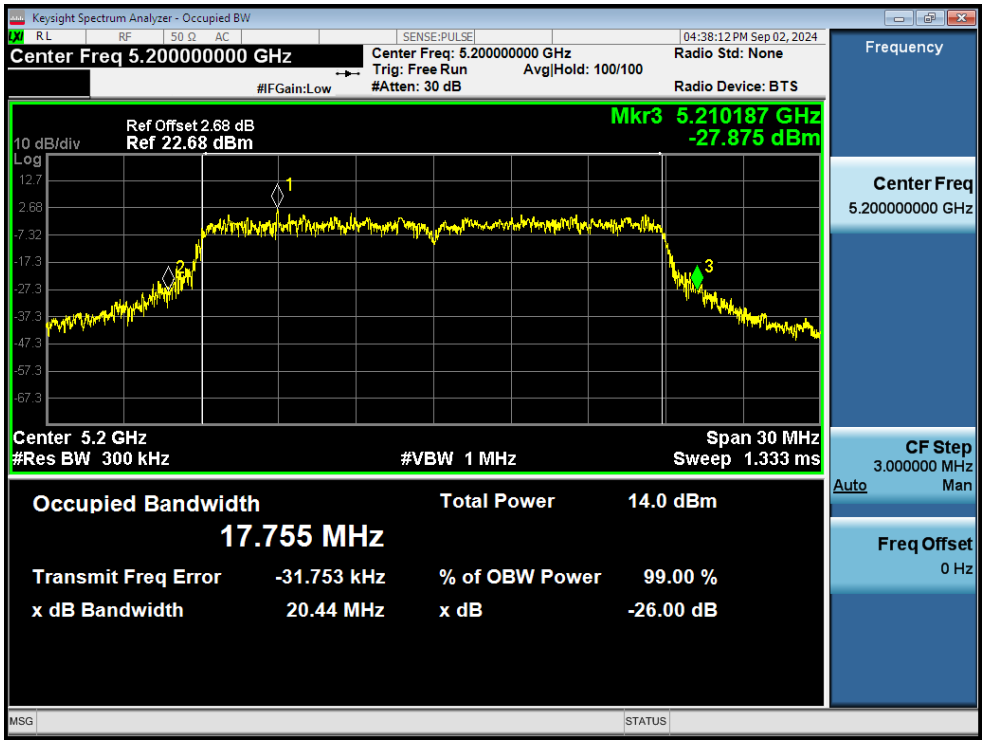


-26dB Bandwidth NVNT a 5200MHz Ant1



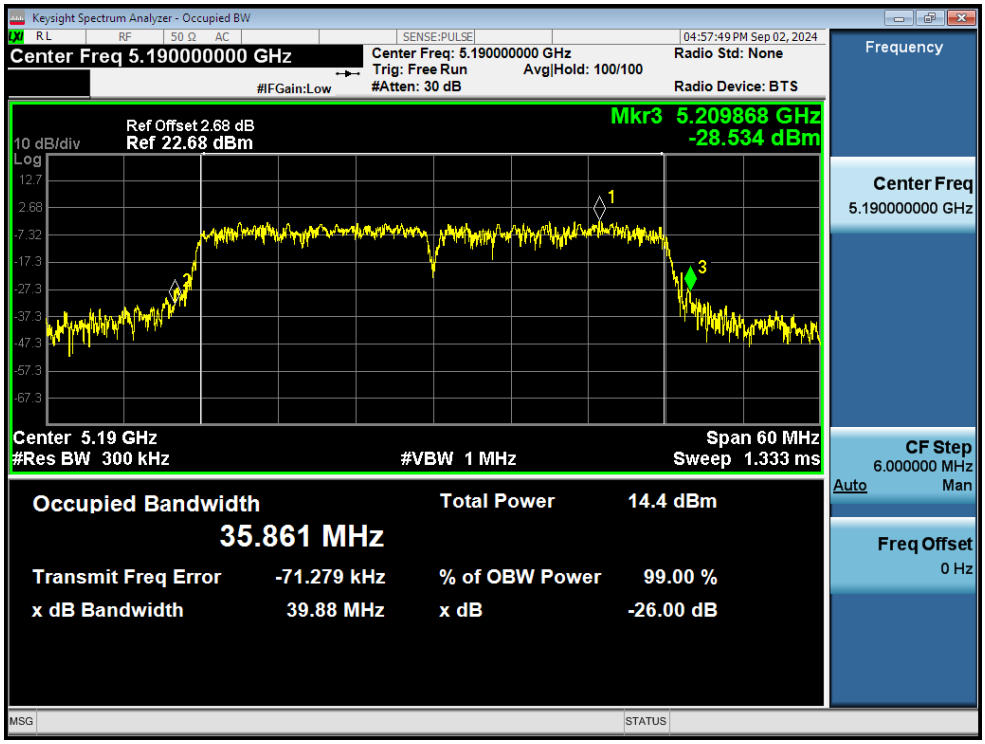
-26dB Bandwidth NVNT a 5240MHz Ant1

-26dB Bandwidth NVNT n20 5180MHz Ant1

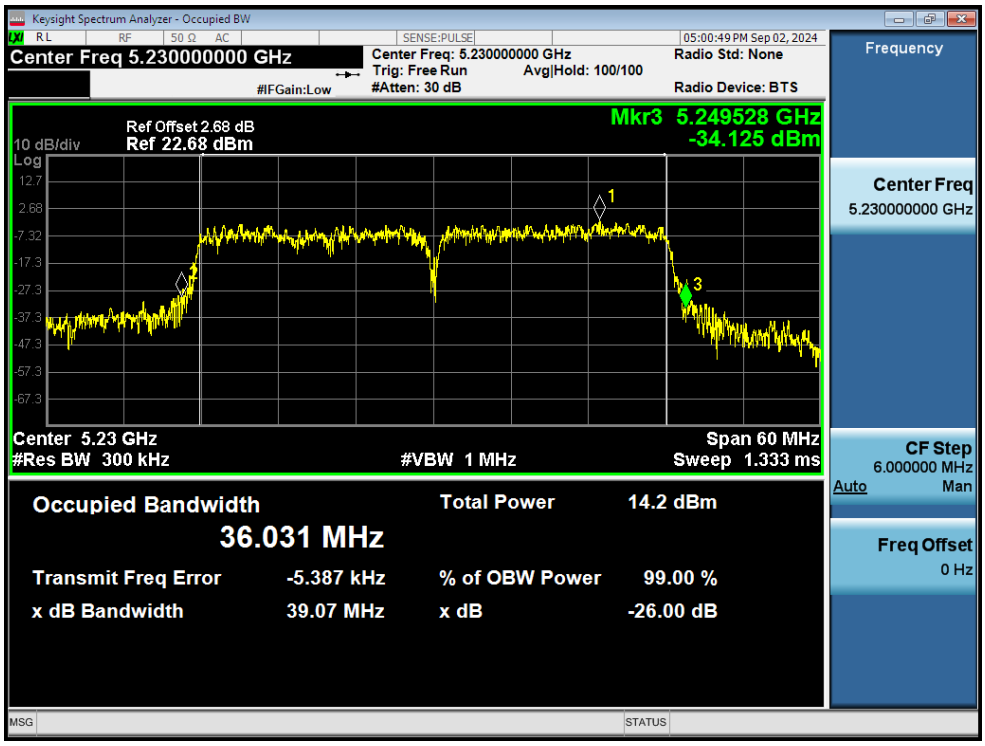


-26dB Bandwidth NVNT n20 5200MHz Ant1

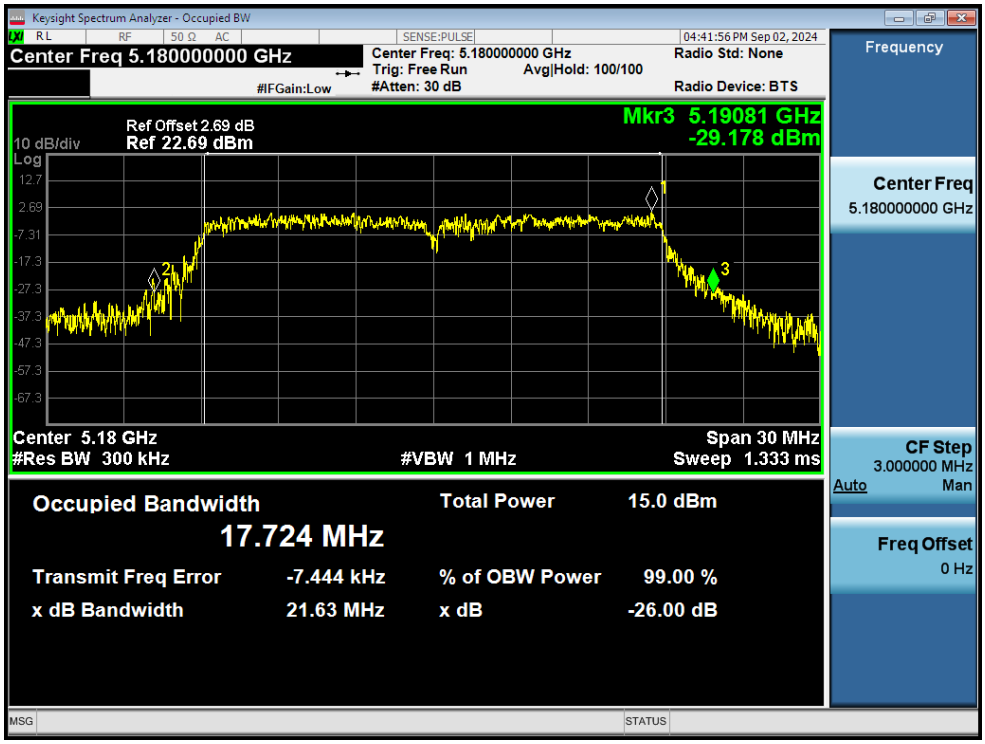
-26dB Bandwidth NVNT n20 5240MHz Ant1



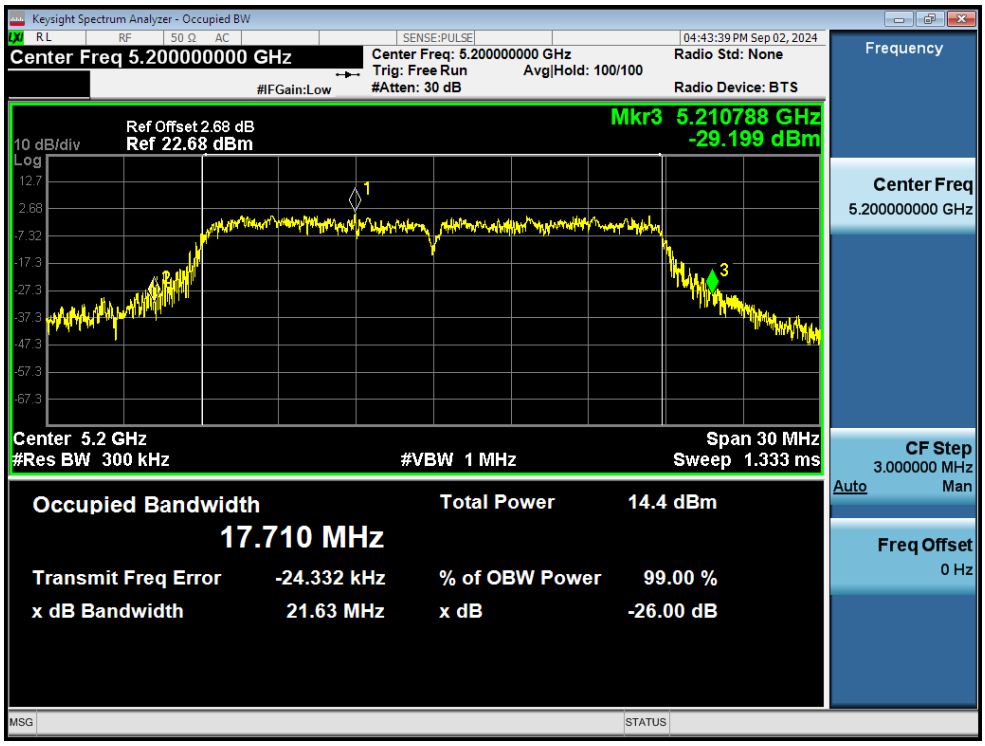
-26dB Bandwidth NVNT n40 5190MHz Ant1



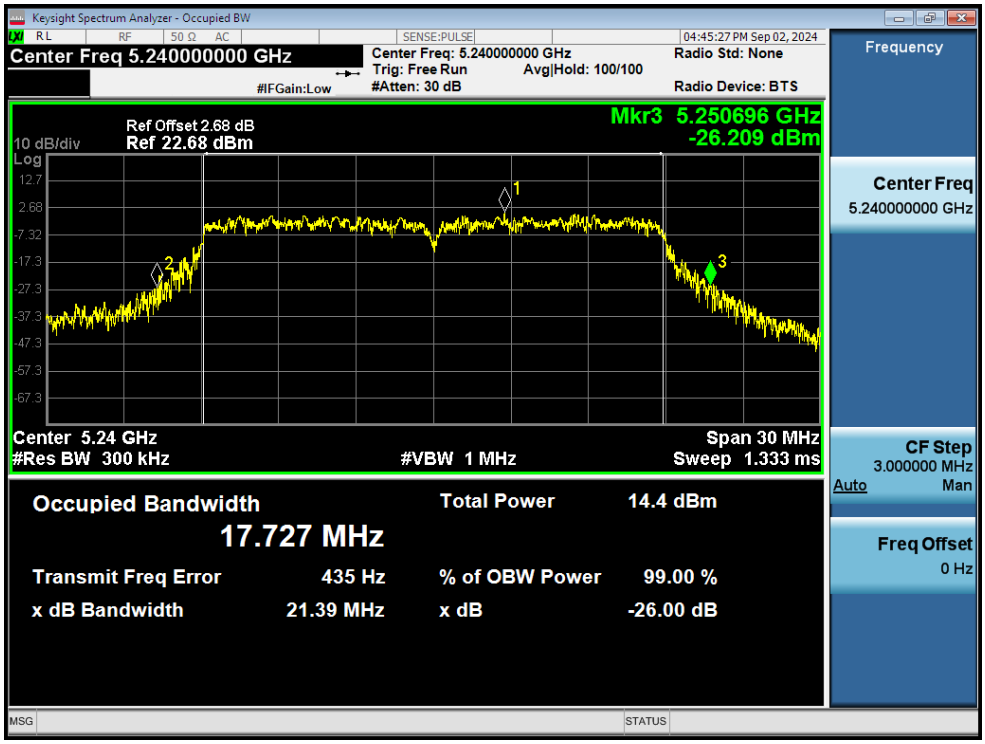
-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1

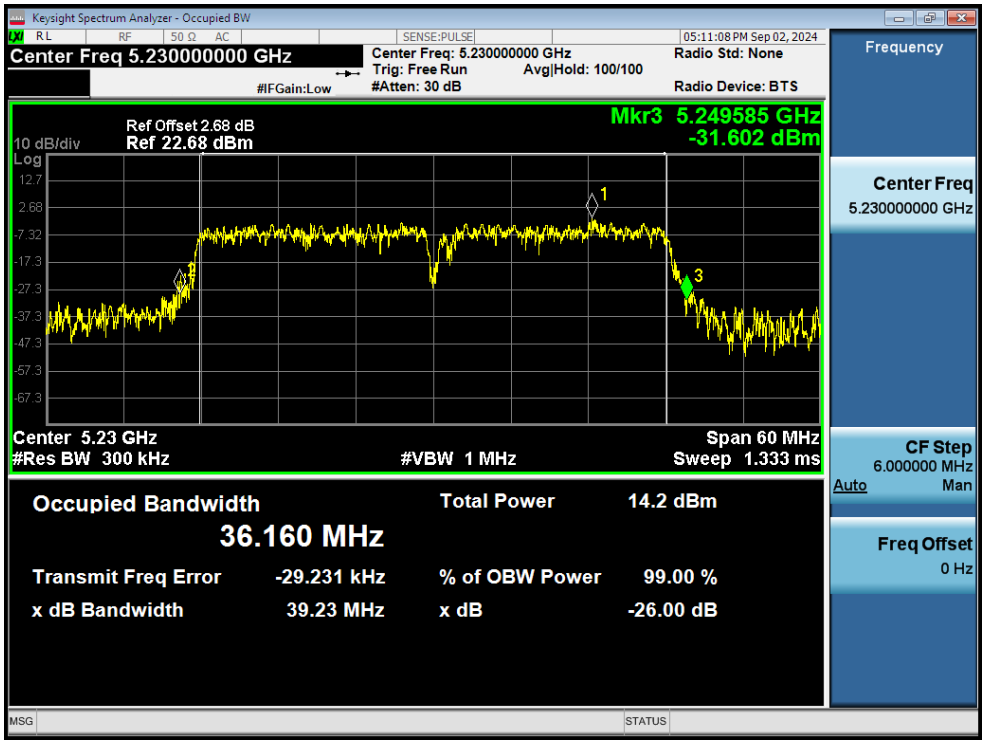


-26dB Bandwidth NVNT ac20 5200MHz Ant1

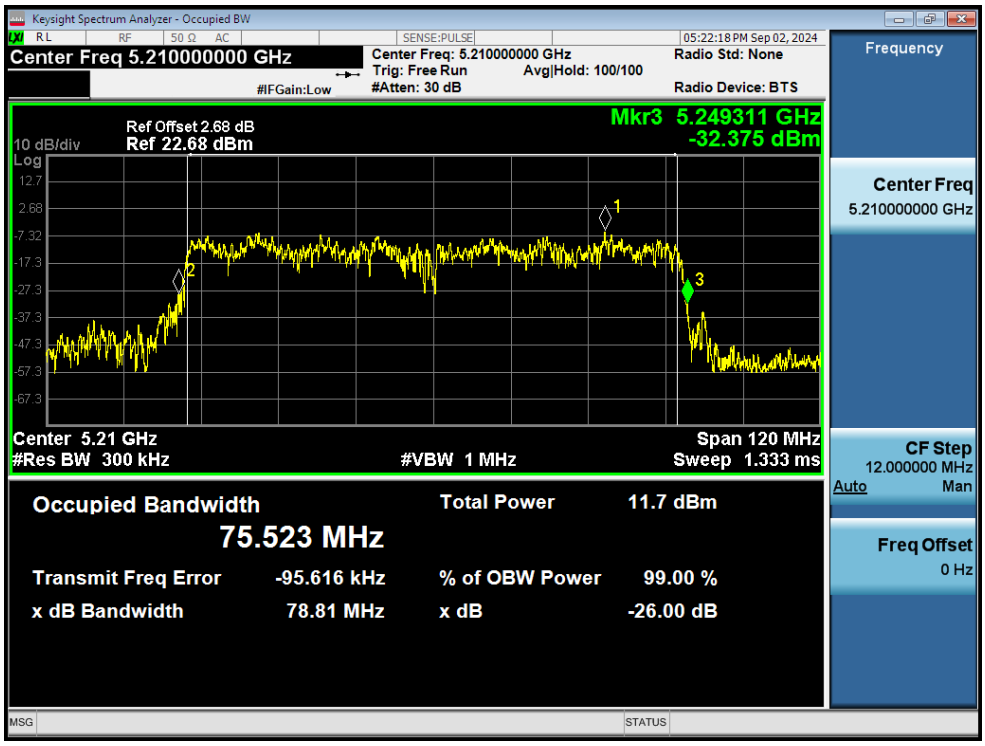


-26dB Bandwidth NVNT ac20 5240MHz Ant1

-26dB Bandwidth NVNT ac40 5190MHz Ant1



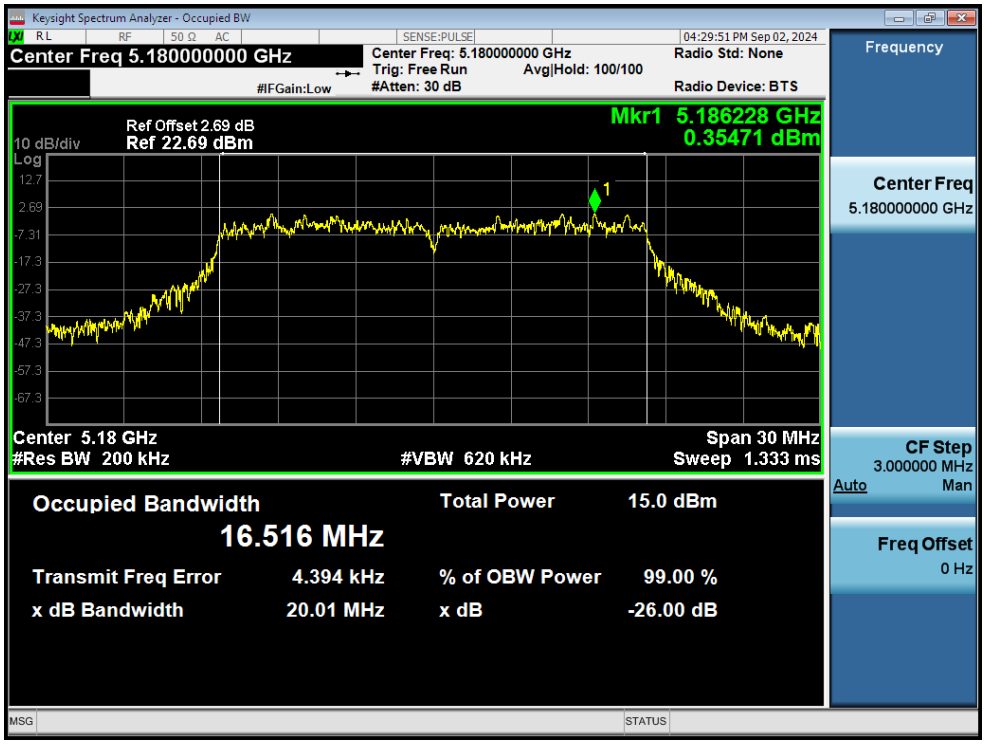
-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

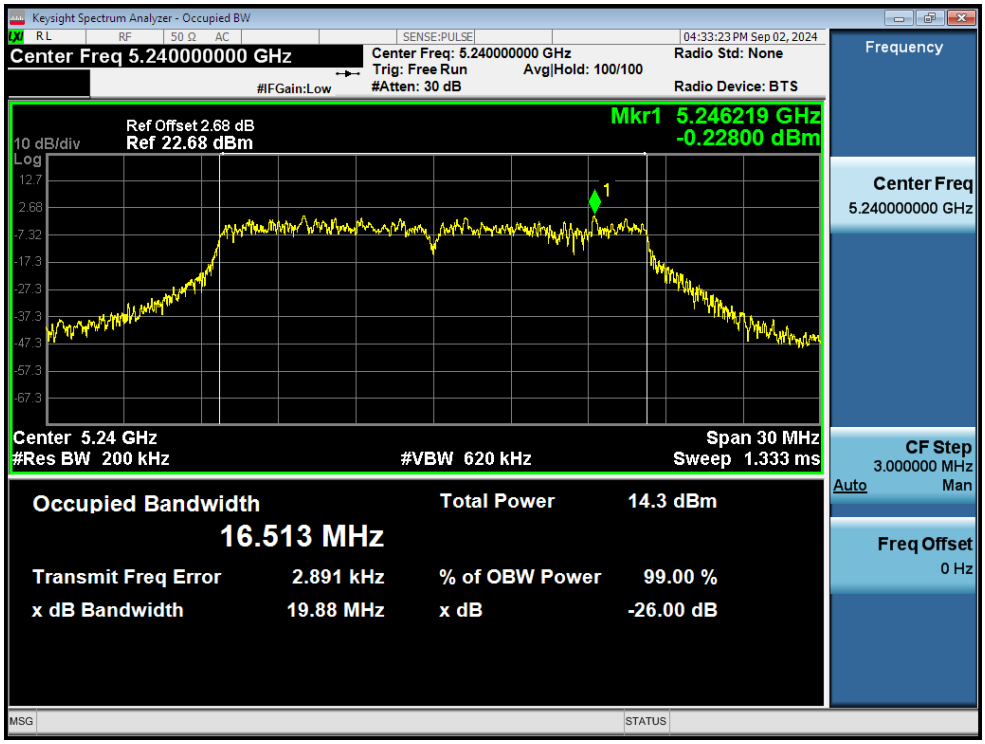
4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.516
NVNT	a	5200	Ant1	16.438
NVNT	a	5240	Ant1	16.513
NVNT	n20	5180	Ant1	17.639
NVNT	n20	5200	Ant1	17.597
NVNT	n20	5240	Ant1	17.666
NVNT	n40	5190	Ant1	36.093
NVNT	n40	5230	Ant1	36.042
NVNT	ac20	5180	Ant1	17.646
NVNT	ac20	5200	Ant1	17.637
NVNT	ac20	5240	Ant1	17.618
NVNT	ac40	5190	Ant1	36.129
NVNT	ac40	5230	Ant1	36.032
NVNT	ac80	5210	Ant1	75.702

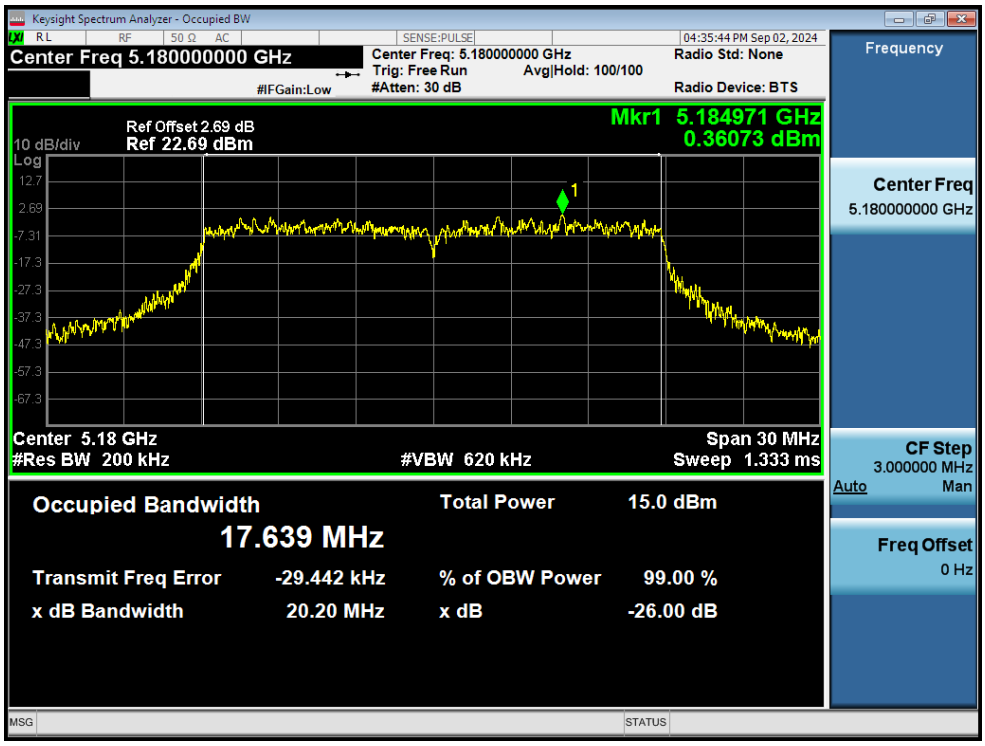


OBW NVNT a 5180MHz Ant1

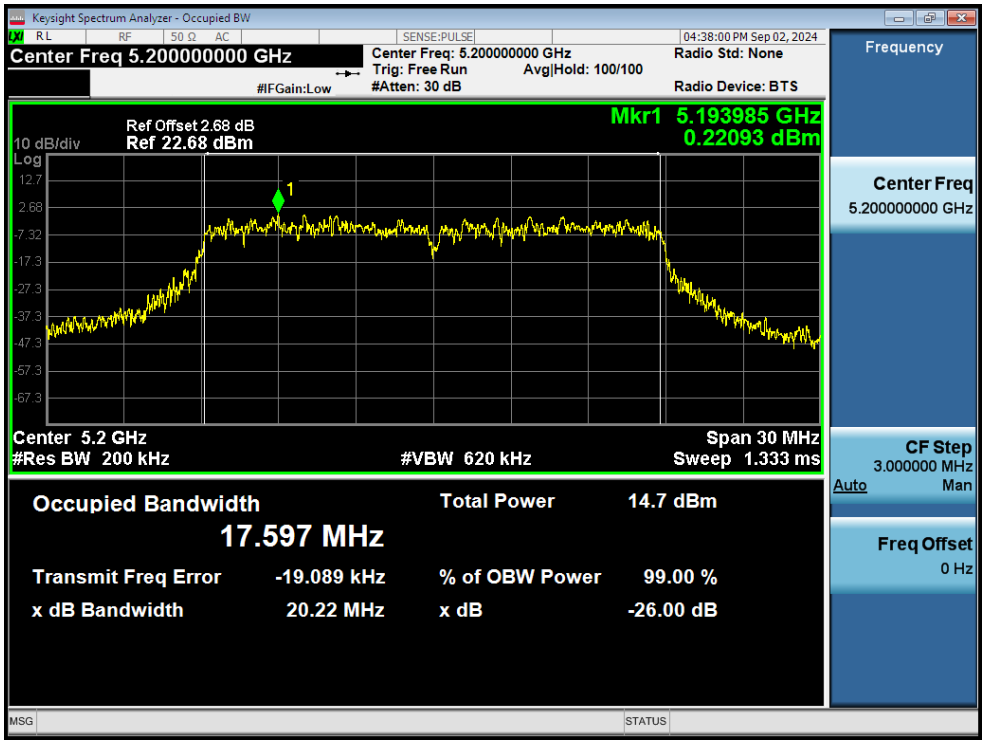
OBW NVNT a 5200MHz Ant1



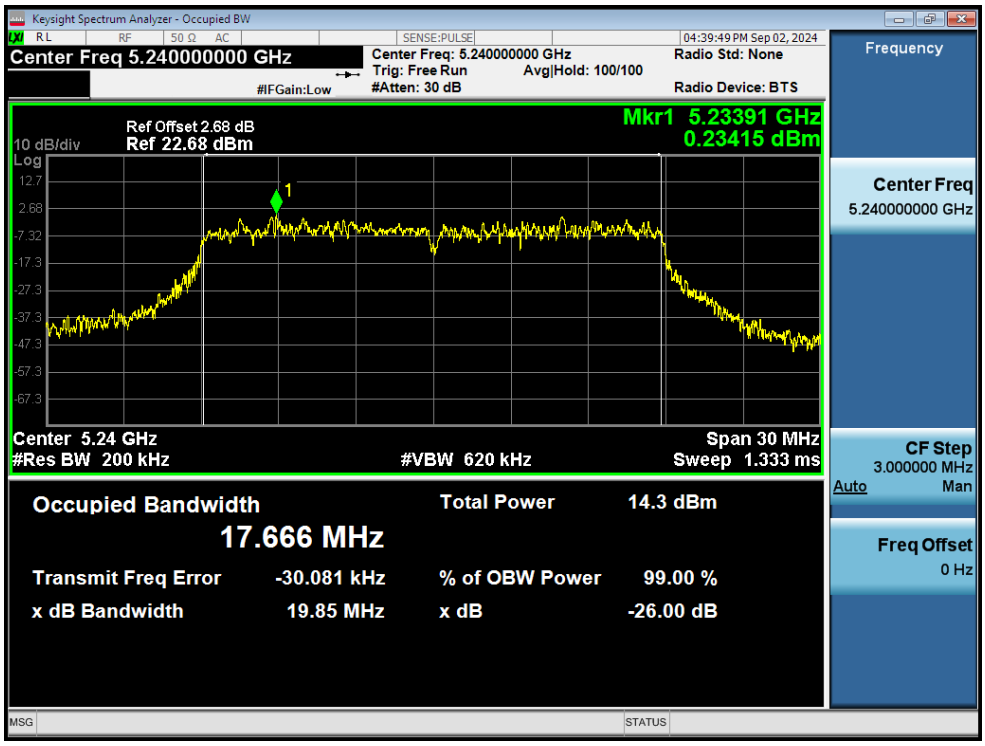
OBW NVNT a 5240MHz Ant1



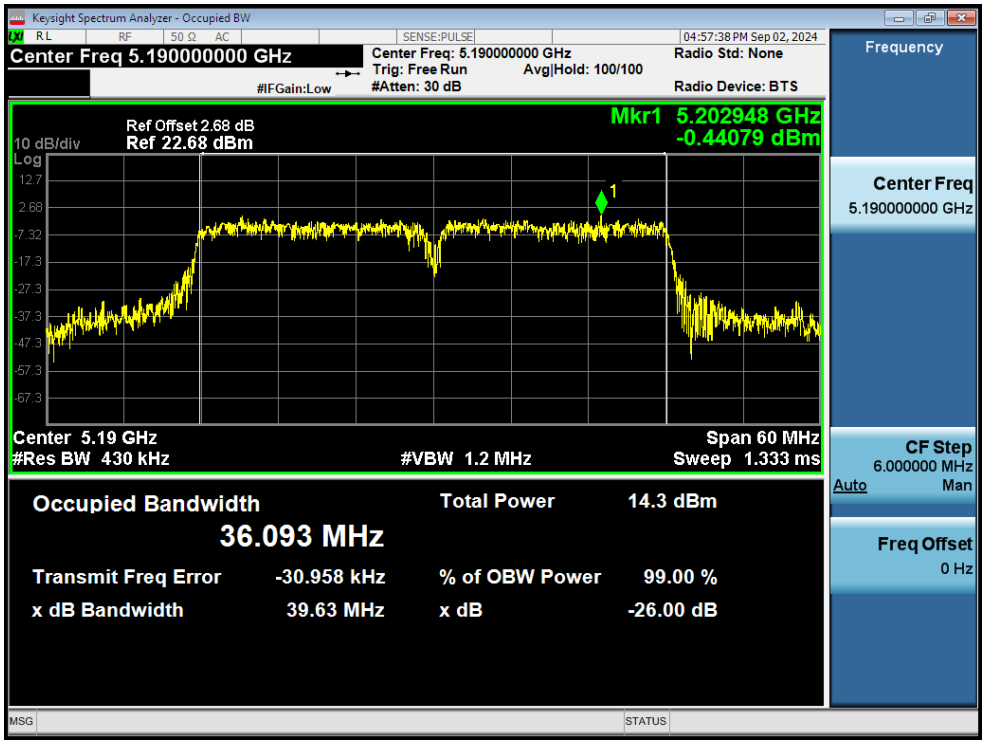
OBW NVNT n20 5180MHz Ant1



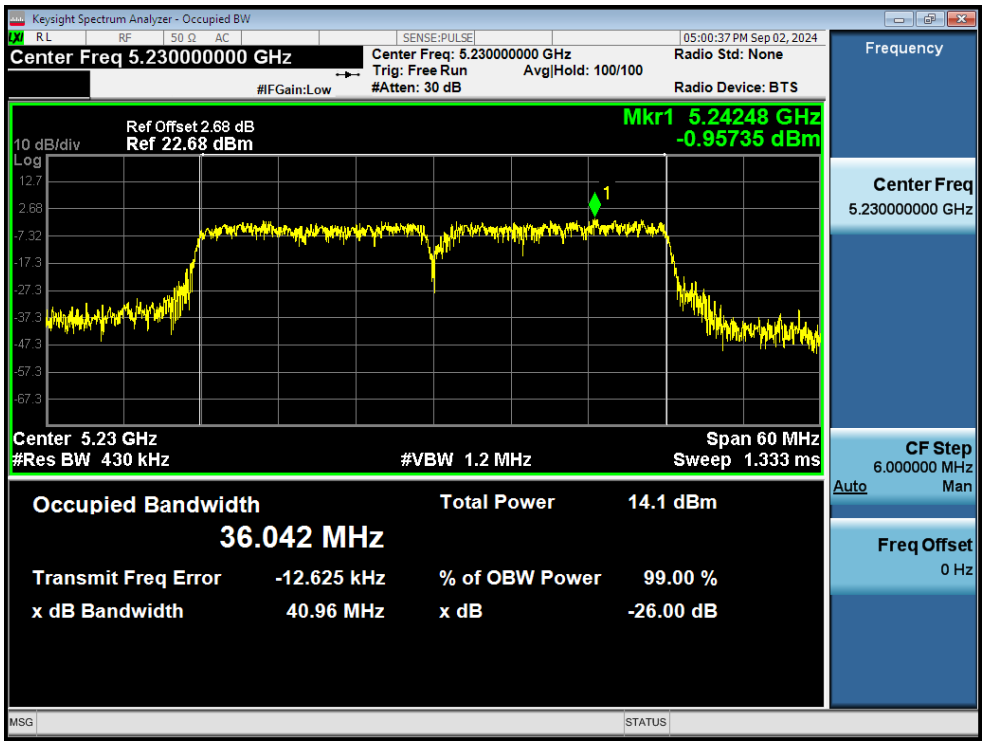
OBW NVNT n20 5200MHz Ant1



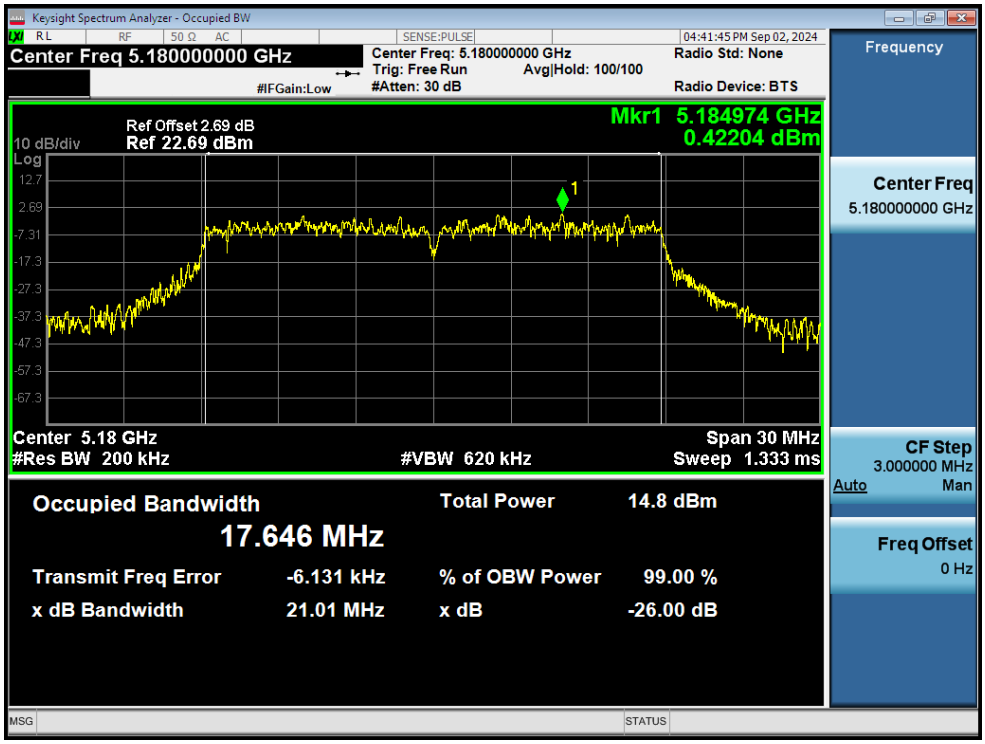
OBW NVNT n20 5240MHz Ant1



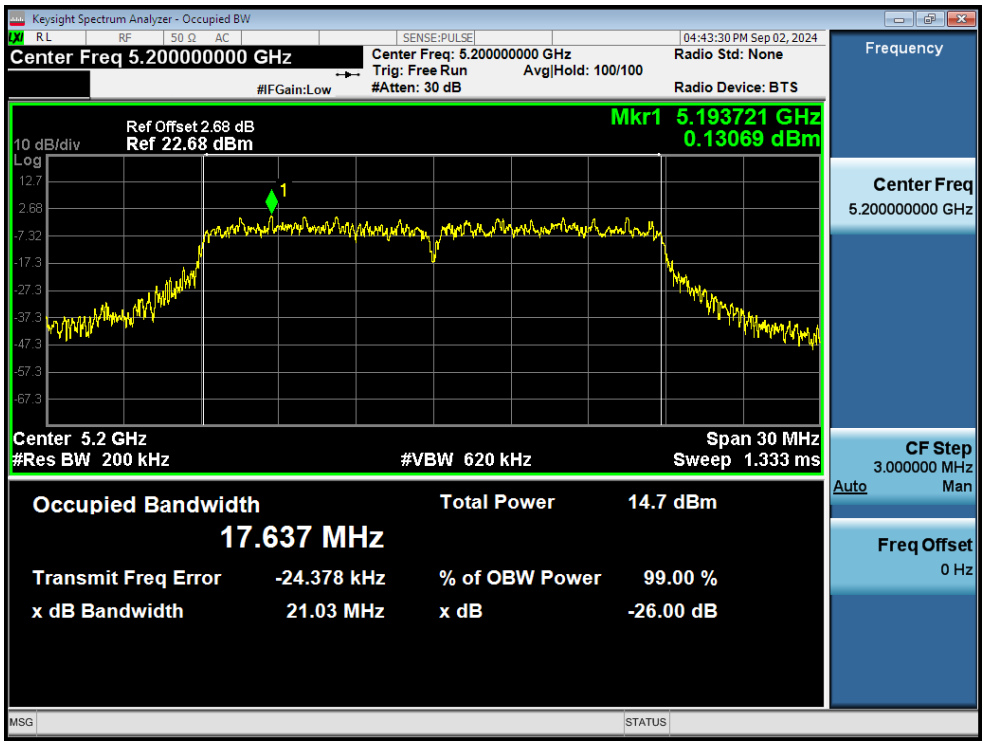
OBW NVNT n40 5190MHz Ant1



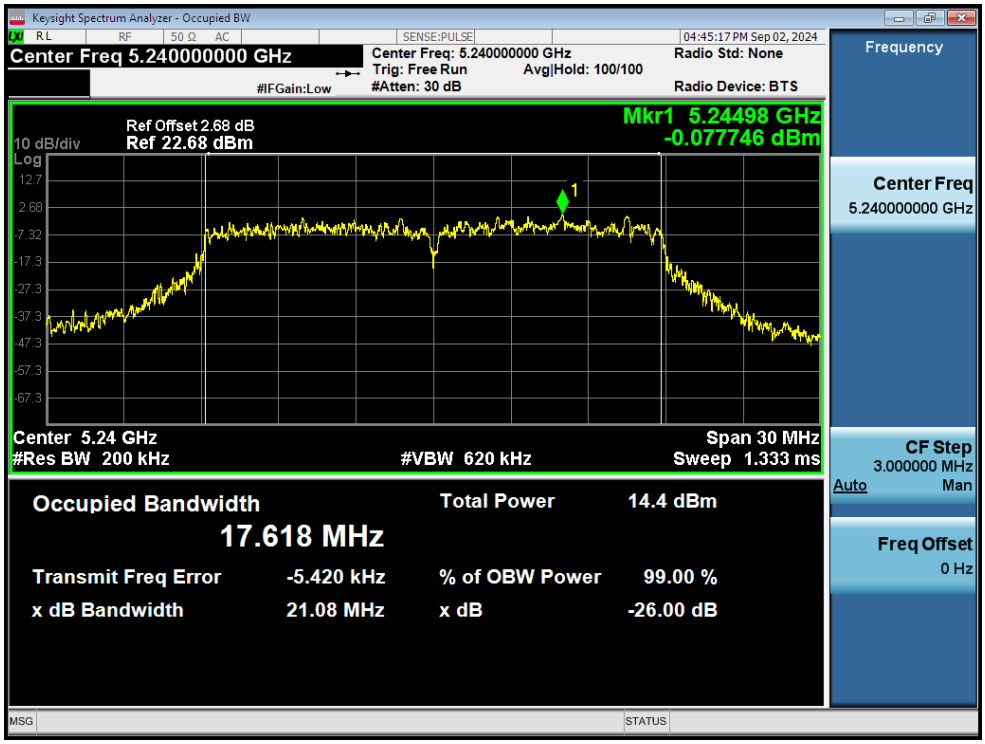
OBW NVNT n40 5230MHz Ant1



OBW NVNT ac20 5180MHz Ant1

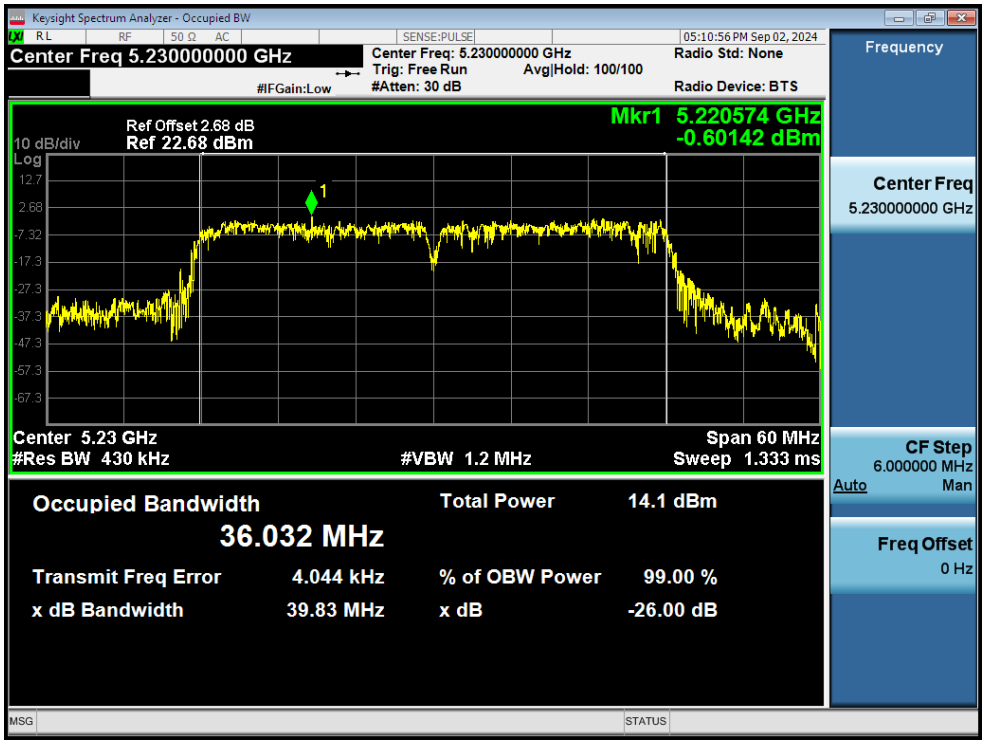


OBW NVNT ac20 5200MHz Ant1

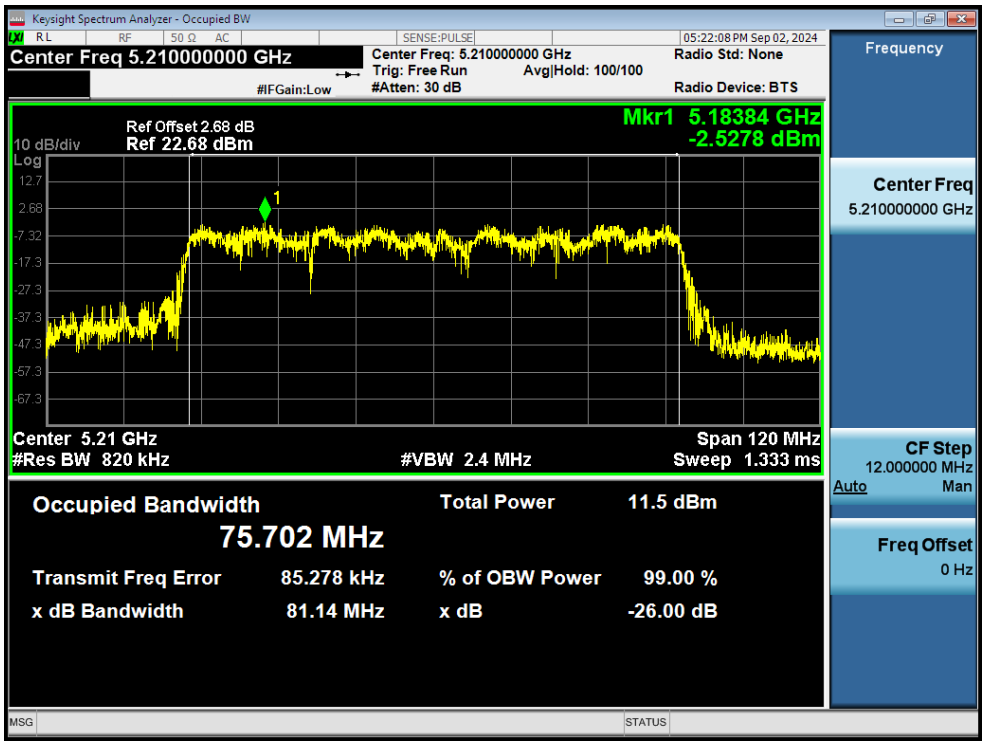


OBW NVNT ac20 5240MHz Ant1

OBW NVNT ac40 5190MHz Ant1



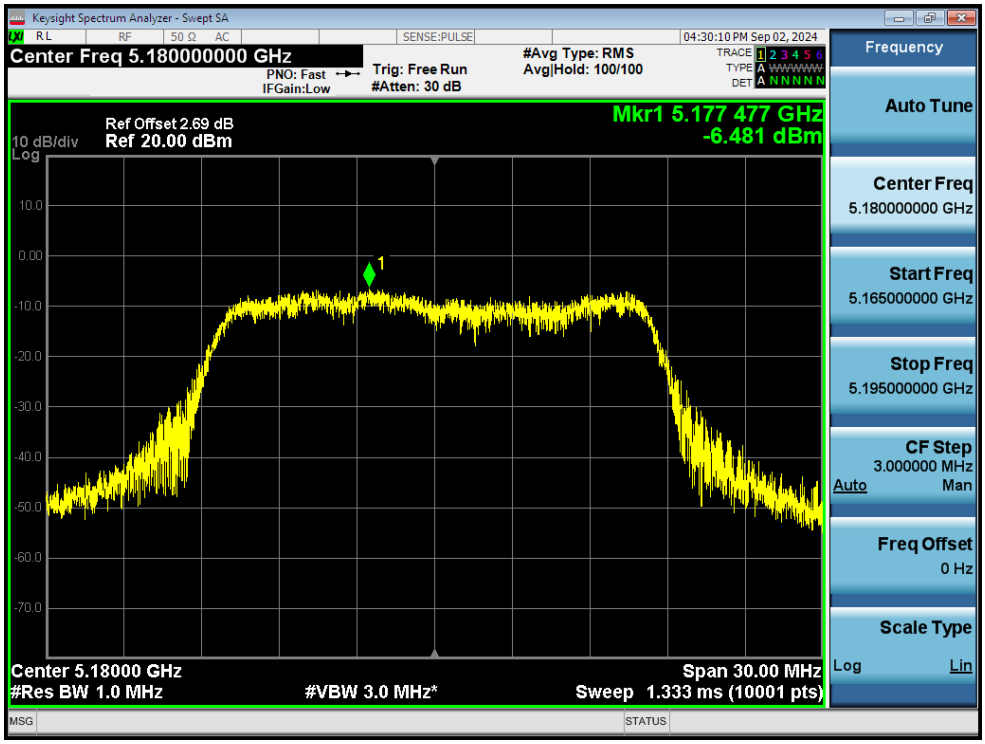
OBW NVNT ac40 5230MHz Ant1



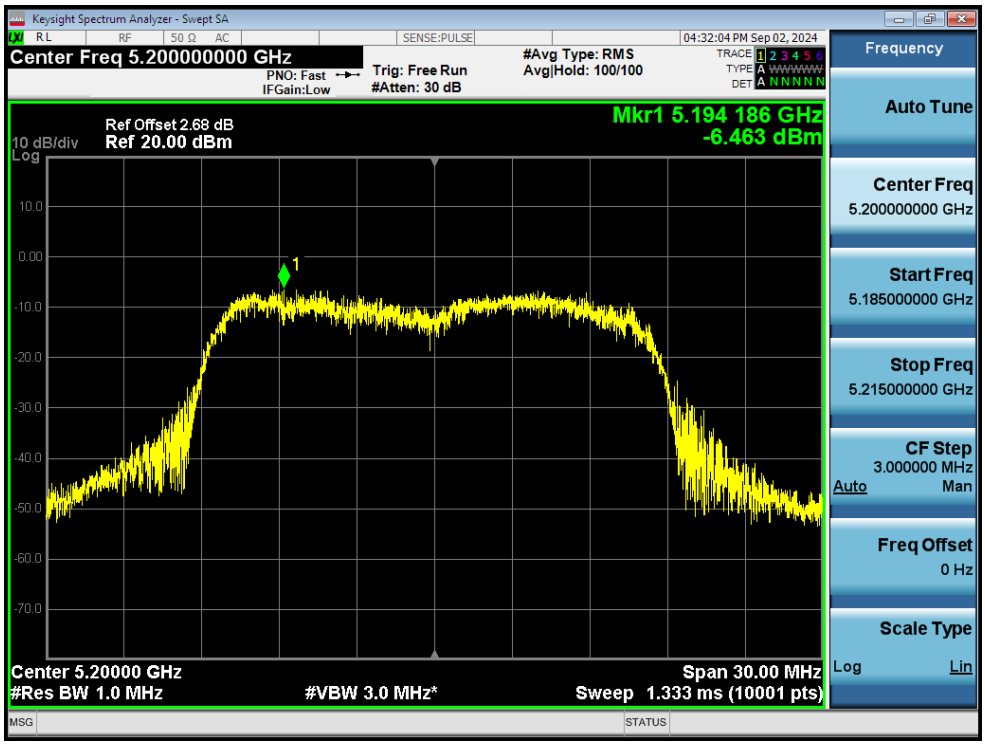
OBW NVNT ac80 5210MHz Ant1

5. Maximum Power Spectral Density Level

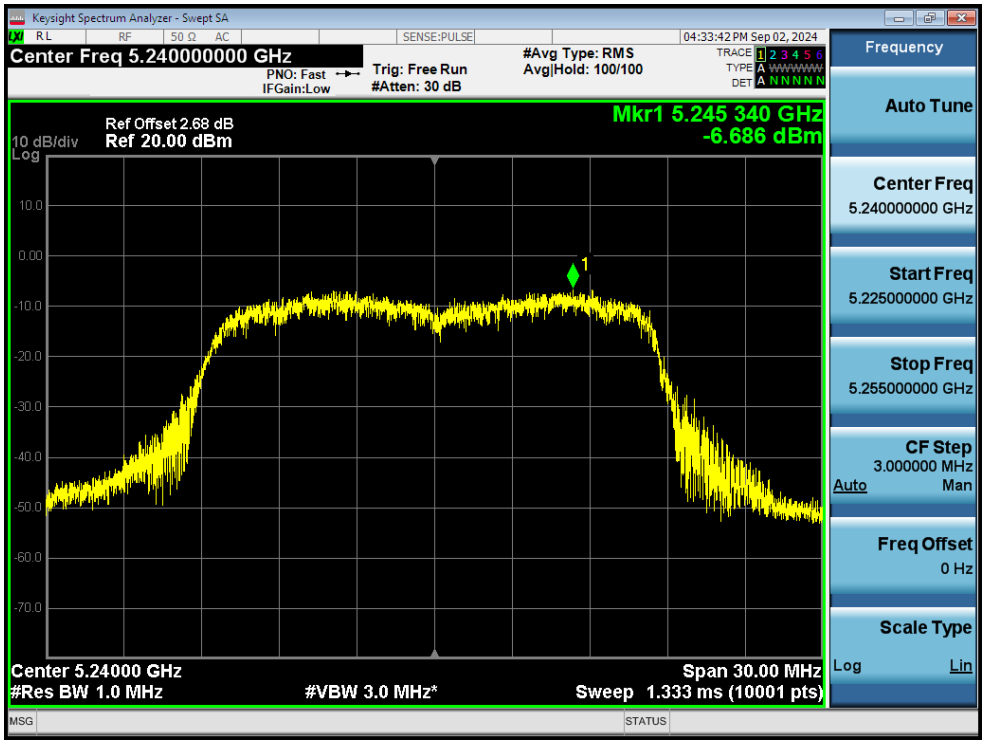
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-6.48	8.32	1.84	11	Pass
NVNT	a	5200	Ant1	-6.46	8.3	1.84	11	Pass
NVNT	a	5240	Ant1	-6.69	8.32	1.63	11	Pass
NVNT	n20	5180	Ant1	-7.06	8.59	1.53	11	Pass
NVNT	n20	5200	Ant1	-7.57	8.57	1	11	Pass
NVNT	n20	5240	Ant1	-7.28	8.59	1.31	11	Pass
NVNT	n40	5190	Ant1	-9.96	10.55	0.59	11	Pass
NVNT	n40	5230	Ant1	-11.32	10.51	-0.81	11	Pass
NVNT	ac20	5180	Ant1	-6.81	8.96	2.15	11	Pass
NVNT	ac20	5200	Ant1	-5.95	8.99	3.04	11	Pass
NVNT	ac20	5240	Ant1	-7.72	8.99	1.27	11	Pass
NVNT	ac40	5190	Ant1	-10.65	10.85	0.2	11	Pass
NVNT	ac40	5230	Ant1	-10.39	10.89	0.5	11	Pass
NVNT	ac80	5210	Ant1	-14.28	12.16	-2.12	11	Pass



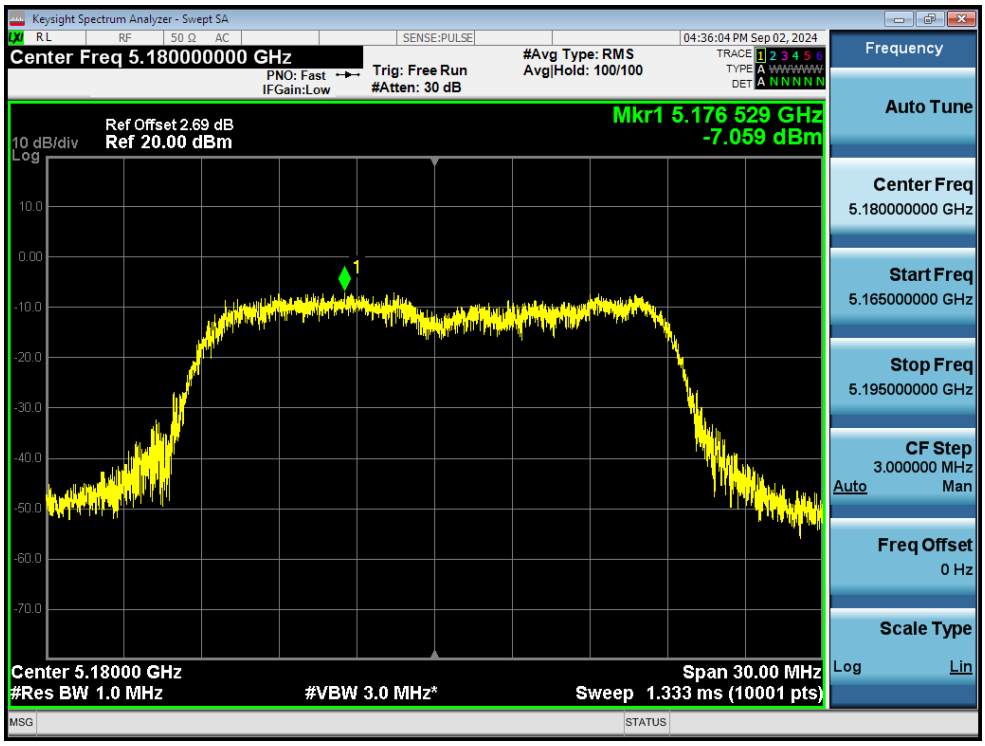
PSD NVNT a 5180MHz Ant1



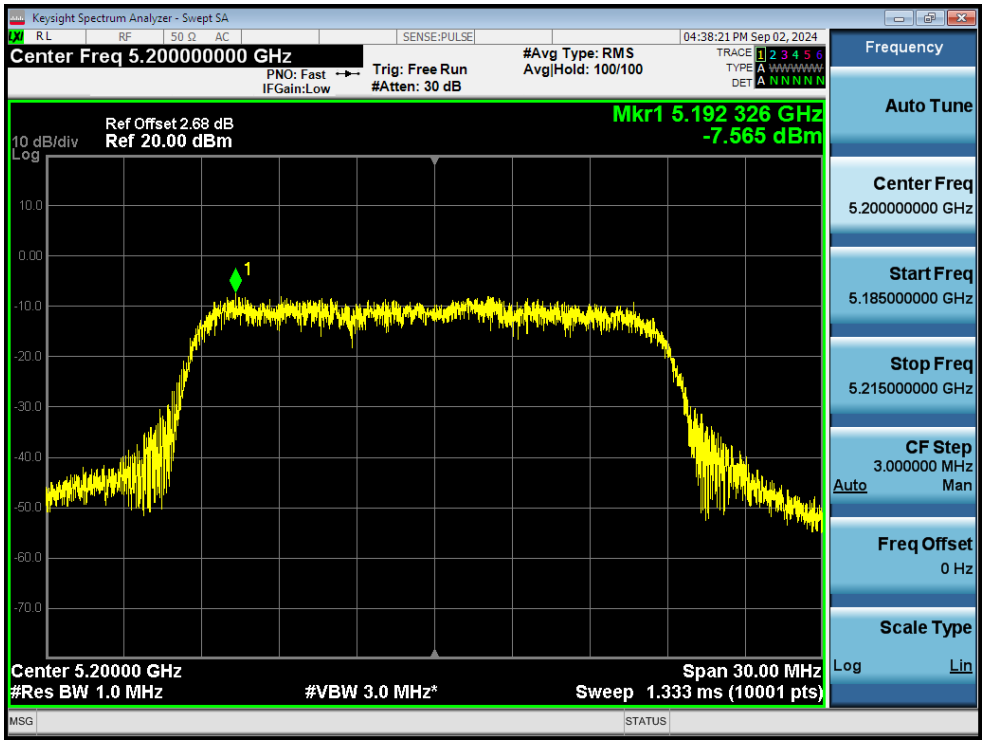
PSD NVNT a 5200MHz Ant1



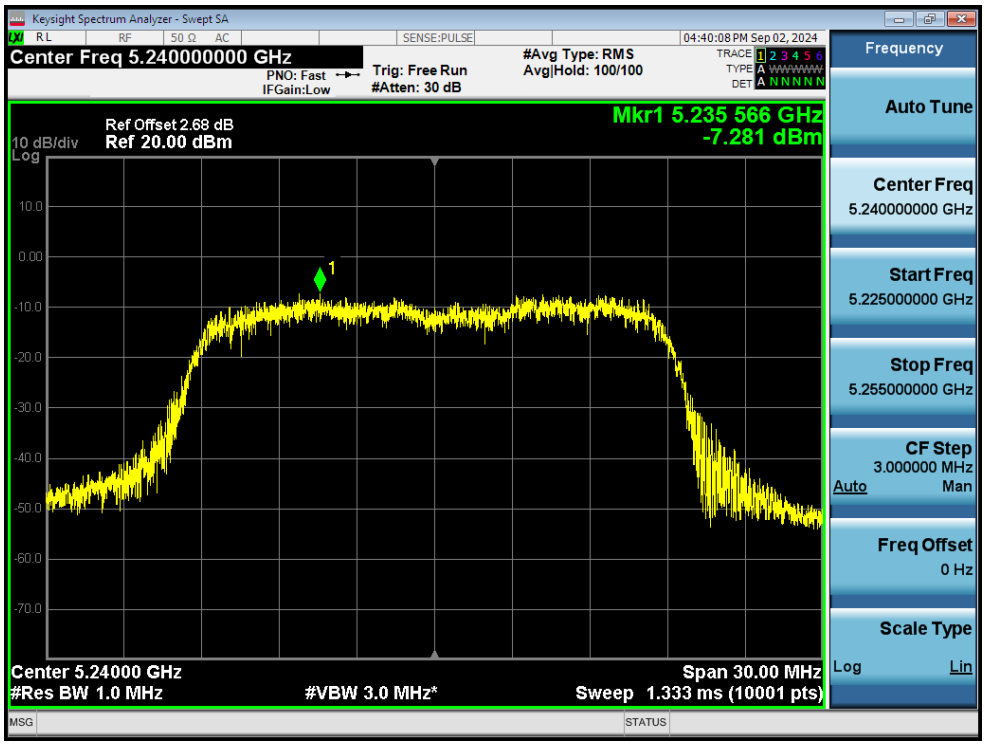
PSD NVNT a 5240MHz Ant1



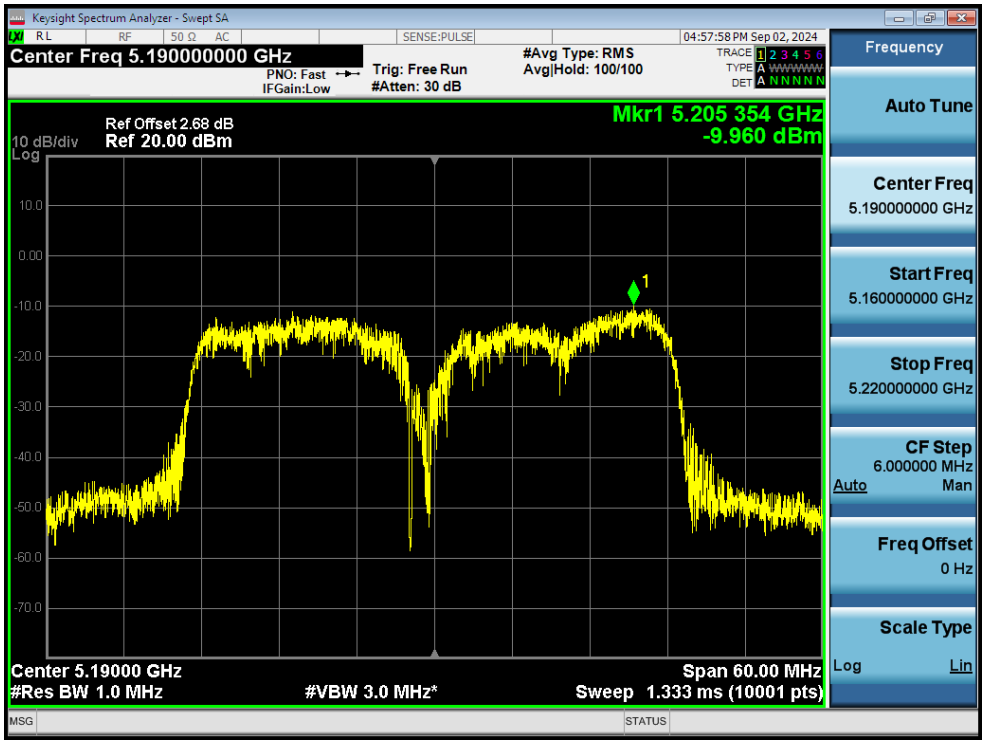
PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1

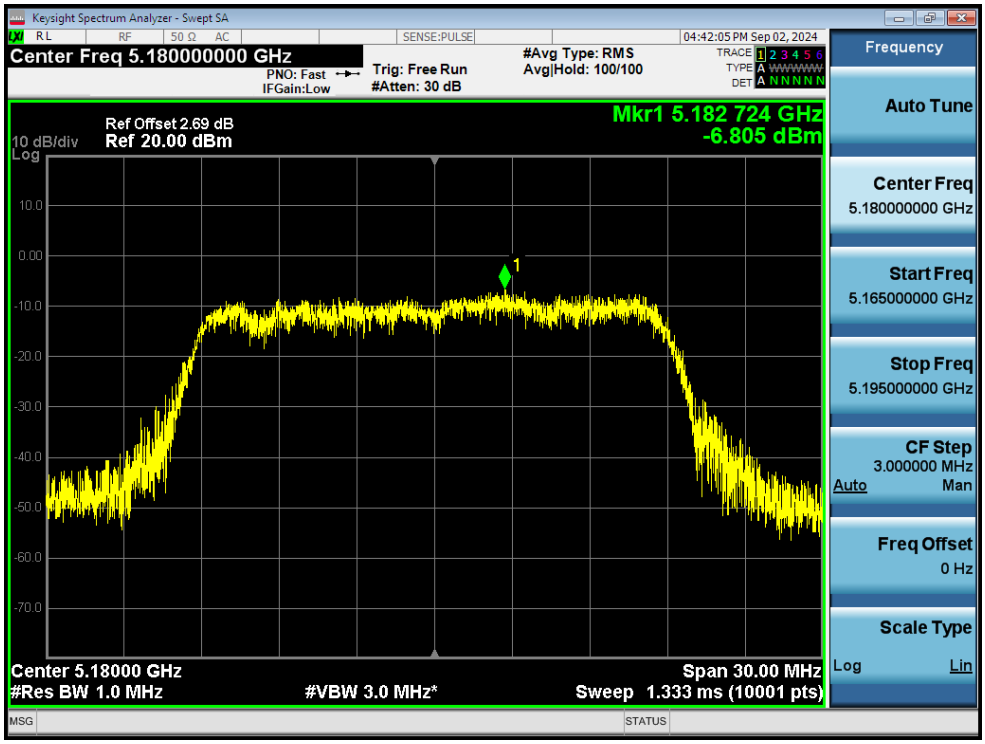


PSD NVNT n20 5240MHz Ant1

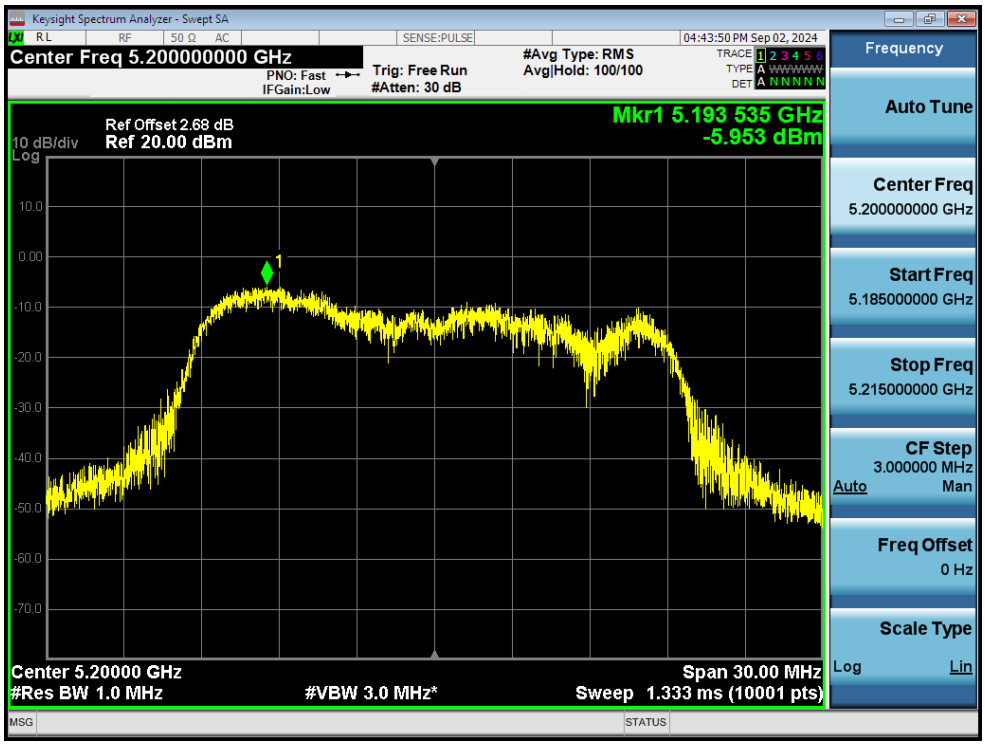


PSD NVNT n40 5190MHz Ant1

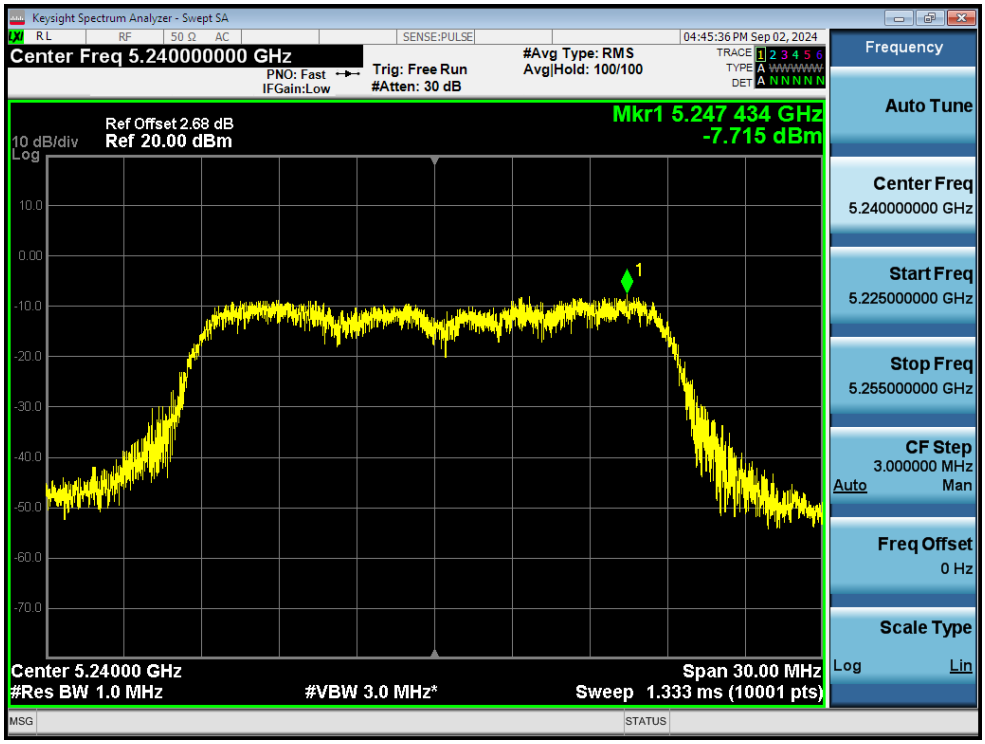
PSD NVNT n40 5230MHz Ant1



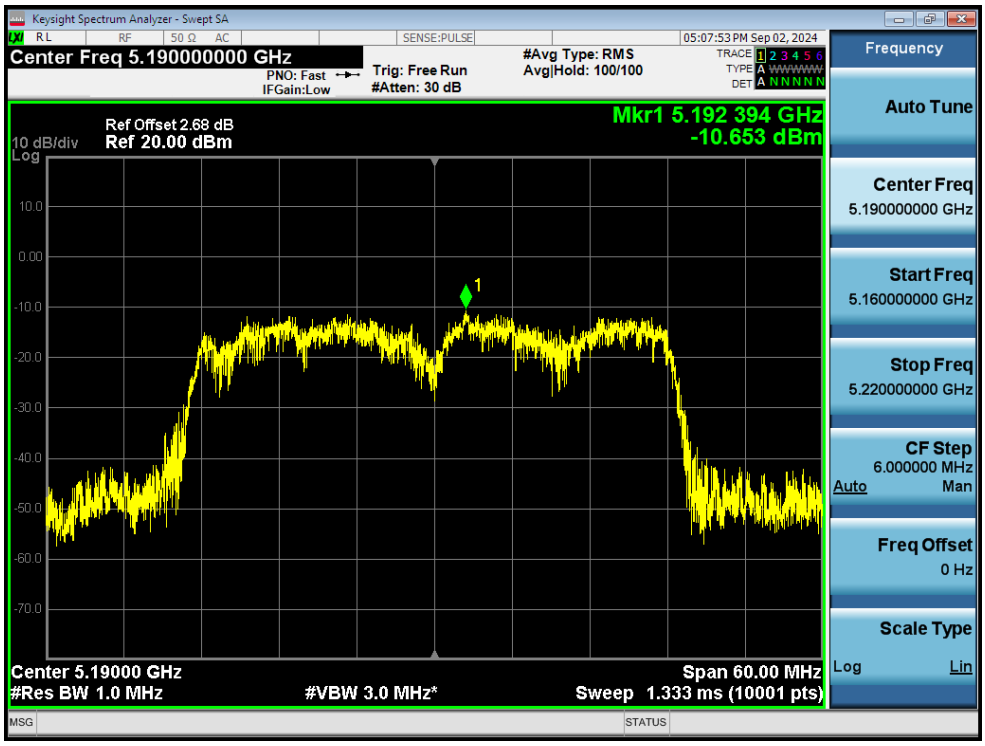
PSD NVNT ac20 5180MHz Ant1



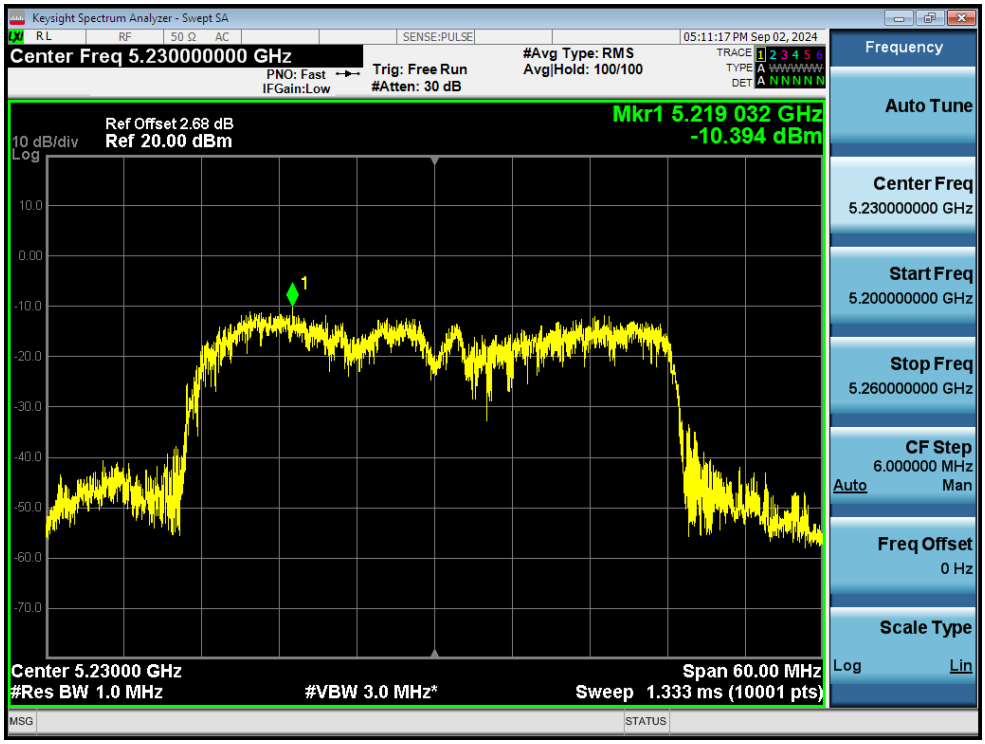
PSD NVNT ac20 5200MHz Ant1



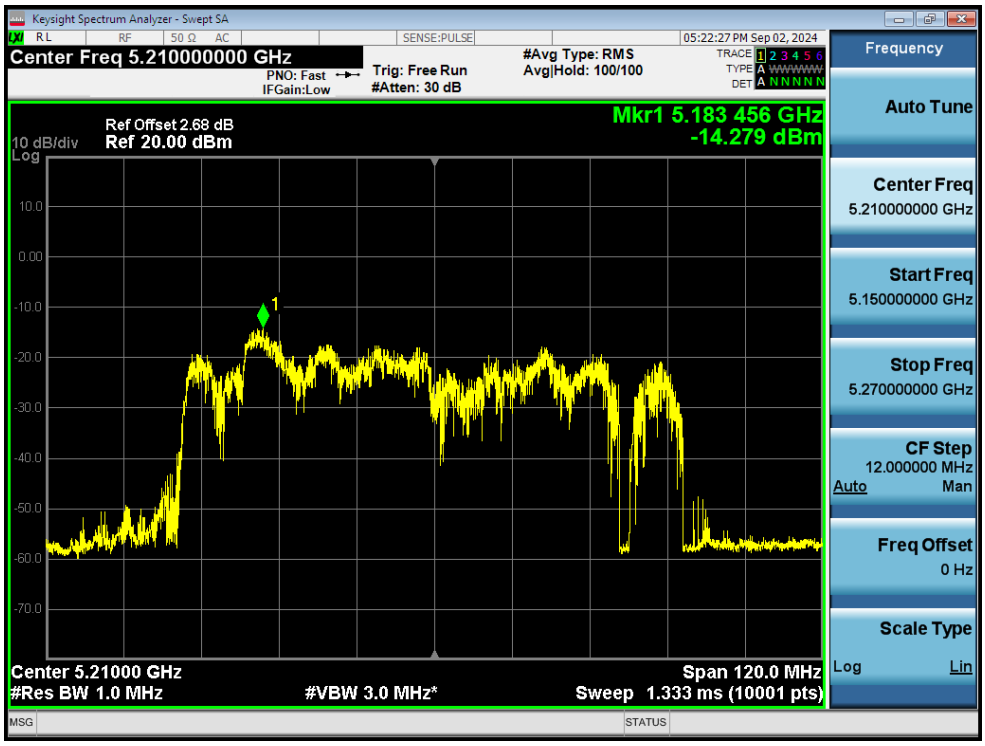
PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

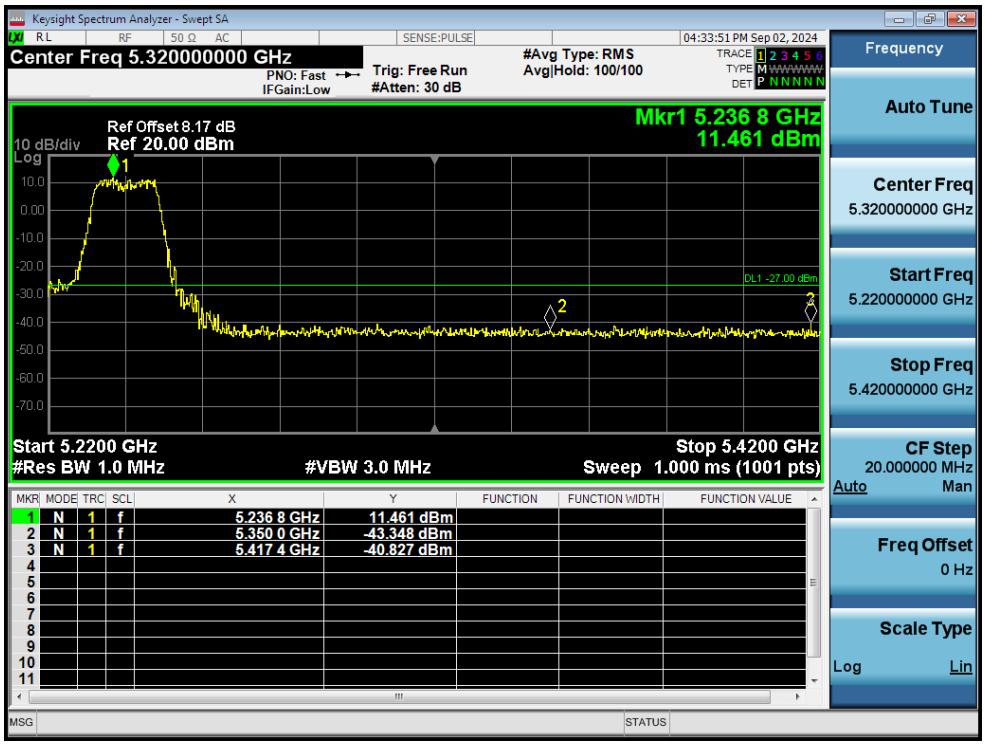


PSD NVNT ac80 5210MHz Ant1

6. Band Edge

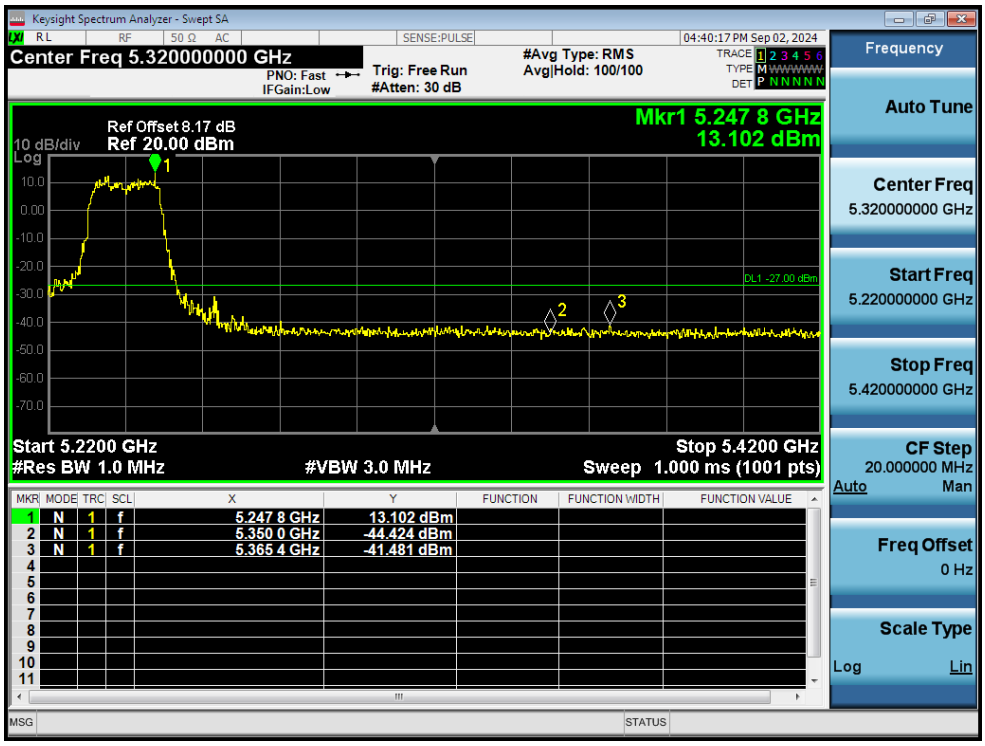
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-38.8	-27	Pass
NVNT	a	5240	Ant1	-40.82	-27	Pass
NVNT	n20	5180	Ant1	-35.91	-27	Pass
NVNT	n20	5240	Ant1	-41.48	-27	Pass
NVNT	n40	5190	Ant1	-28.91	-27	Pass
NVNT	n40	5230	Ant1	-41.07	-27	Pass
NVNT	ac20	5180	Ant1	-39.26	-27	Pass
NVNT	ac20	5240	Ant1	-40.93	-27	Pass
NVNT	ac40	5190	Ant1	-27.17	-27	Pass
NVNT	ac40	5230	Ant1	-41.71	-27	Pass
NVNT	ac80	5210	Ant1	-41.22	-27	Pass
NVNT	ac80	5210	Ant1	-31.49	-27	Pass

Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1

Band Edge NVNT n20 5180MHz Low Ant1

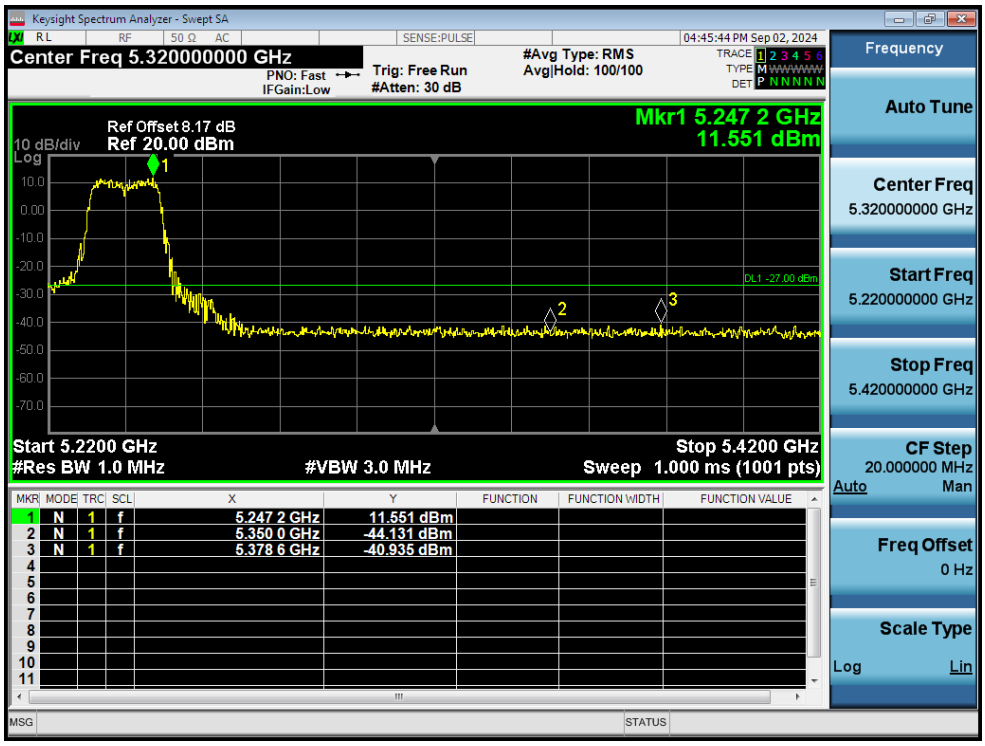


Band Edge NVNT n20 5240MHz High Ant1

Band Edge NVNT n40 5190MHz Low Ant1

Band Edge NVNT n40 5230MHz High Ant1

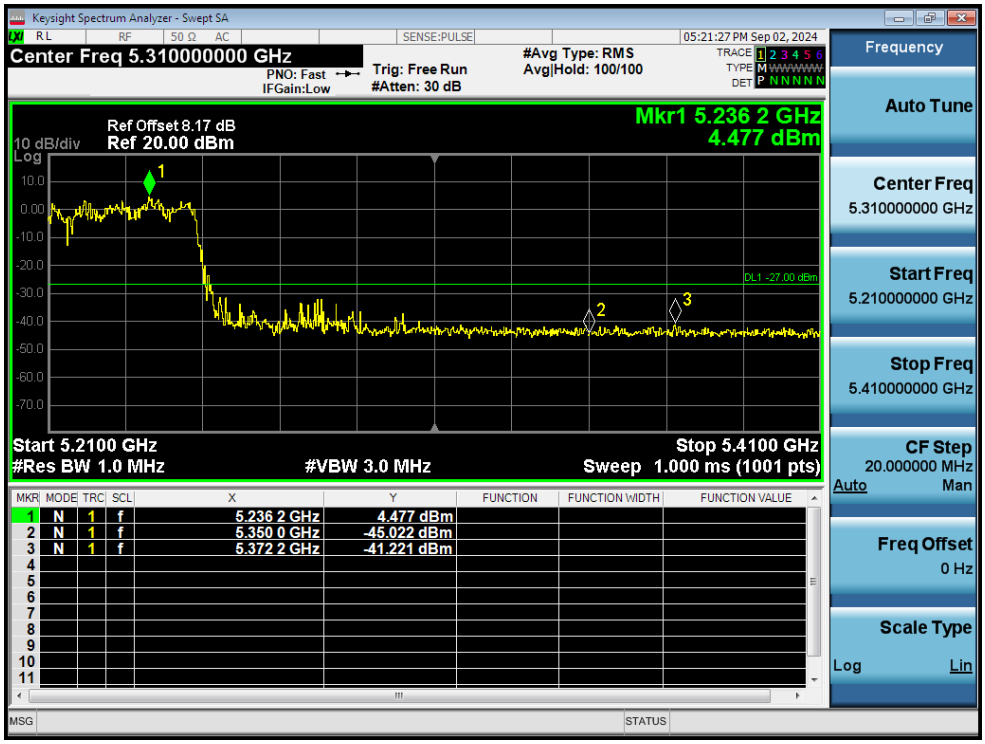
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1

Band Edge NVNT ac40 5190MHz Low Ant1

Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1

Band Edge NVNT ac80 5210MHz Low Ant1

7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-29.49	-27	Pass
NVNT	a	5200	Ant1	-29.1	-27	Pass
NVNT	a	5240	Ant1	-29	-27	Pass
NVNT	n20	5180	Ant1	-29.23	-27	Pass
NVNT	n20	5200	Ant1	-28.51	-27	Pass
NVNT	n20	5240	Ant1	-29.5	-27	Pass
NVNT	n40	5190	Ant1	-28.9	-27	Pass
NVNT	n40	5230	Ant1	-29.24	-27	Pass
NVNT	ac20	5180	Ant1	-29.09	-27	Pass
NVNT	ac20	5200	Ant1	-28.84	-27	Pass
NVNT	ac20	5240	Ant1	-29.14	-27	Pass
NVNT	ac40	5190	Ant1	-28.57	-27	Pass
NVNT	ac40	5230	Ant1	-28.95	-27	Pass
NVNT	ac80	5210	Ant1	-29.06	-27	Pass

Tx. Spurious NVNT a 5180MHz Ant1 Emission

Tx. Spurious NVNT a 5200MHz Ant1 Emission

Tx. Spurious NVNT a 5240MHz Ant1 Emission

Tx. Spurious NVNT n20 5180MHz Ant1 Emission

Tx. Spurious NVNT n20 5200MHz Ant1 Emission

Tx. Spurious NVNT n20 5240MHz Ant1 Emission

Tx. Spurious NVNT n40 5190MHz Ant1 Emission

Tx. Spurious NVNT n40 5230MHz Ant1 Emission

Tx. Spurious NVNT ac20 5180MHz Ant1 Emission

Tx. Spurious NVNT ac20 5200MHz Ant1 Emission

Tx. Spurious NVNT ac20 5240MHz Ant1 Emission

Tx. Spurious NVNT ac40 5190MHz Ant1 Emission

Tx. Spurious NVNT ac40 5230MHz Ant1 Emission

Tx. Spurious NVNT ac80 5210MHz Ant1 Emission