

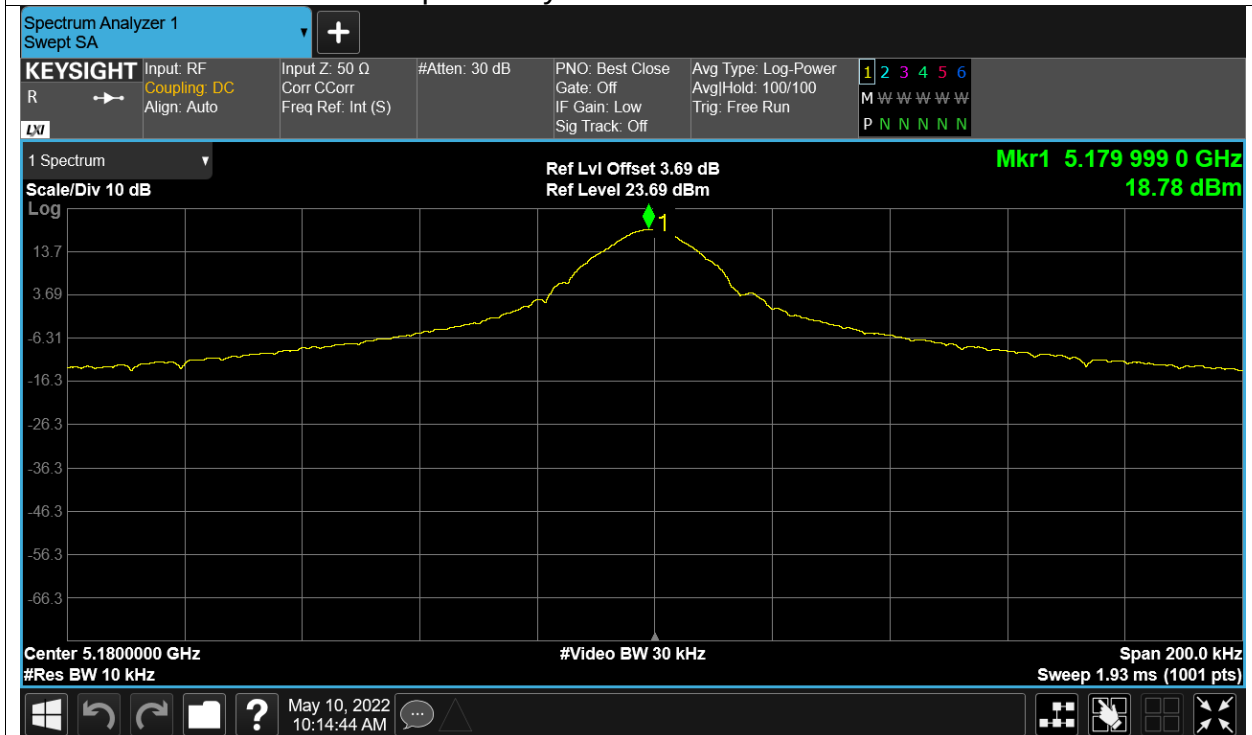
Appendix A – 5.2G Wi-Fi

Frequency Stability

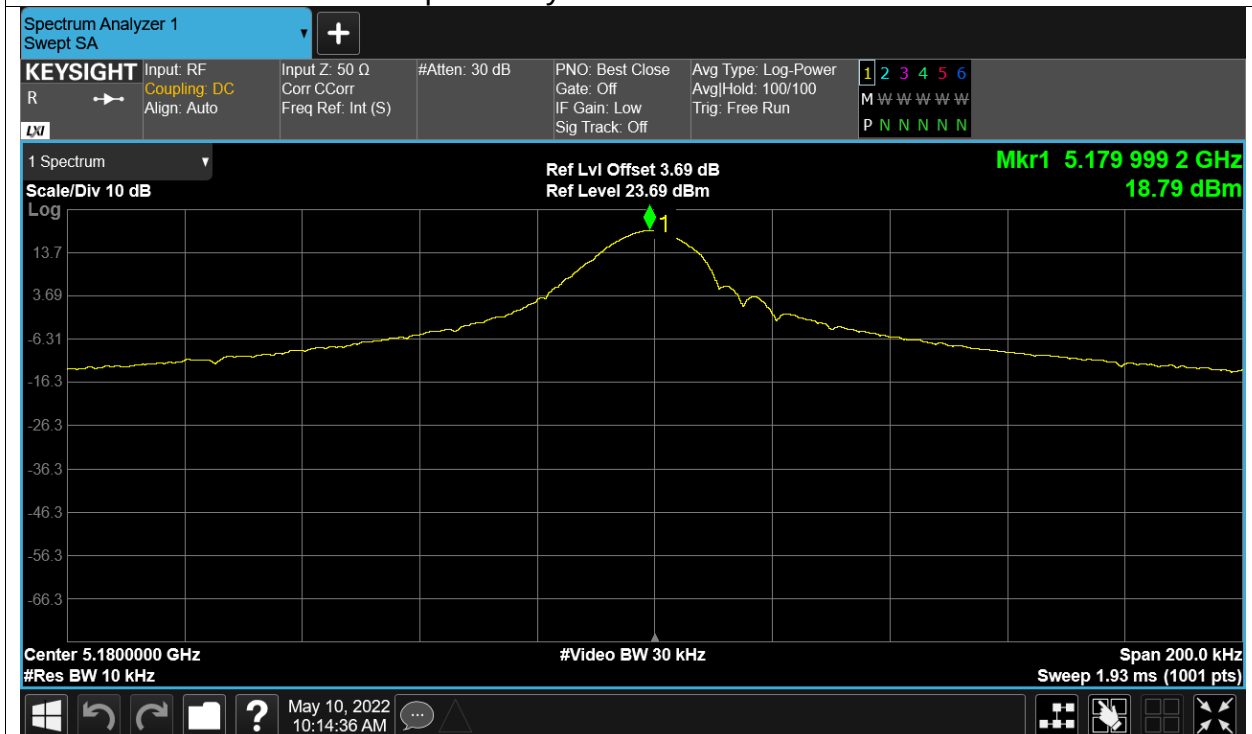
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5179.999	-0.19	Within authorized band	Pass
LVNT	a	5180	Ant1	5179.9992	-0.15		Pass
NVHT	a	5180	Ant1	5179.999	-0.19		Pass
NVLT	a	5180	Ant1	5179.999	-0.19		Pass
NVNT	a	5180	Ant1	5179.999	-0.19		Pass
HVNT	ac80	5210	Ant1	5209.9992	-0.15		Pass
LVNT	ac80	5210	Ant1	5209.999	-0.19		Pass
NVHT	ac80	5210	Ant1	5209.999	-0.19		Pass
NVLT	ac80	5210	Ant1	5209.999	-0.19		Pass
NVNT	ac80	5210	Ant1	5209.999	-0.19		Pass
HVNT	n40	5190	Ant1	5189.999	-0.19		Pass
LVNT	n40	5190	Ant1	5189.999	-0.19		Pass
NVHT	n40	5190	Ant1	5189.999	-0.19		Pass
NVLT	n40	5190	Ant1	5189.999	-0.19		Pass
NVNT	n40	5190	Ant1	5189.9988	-0.23		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs

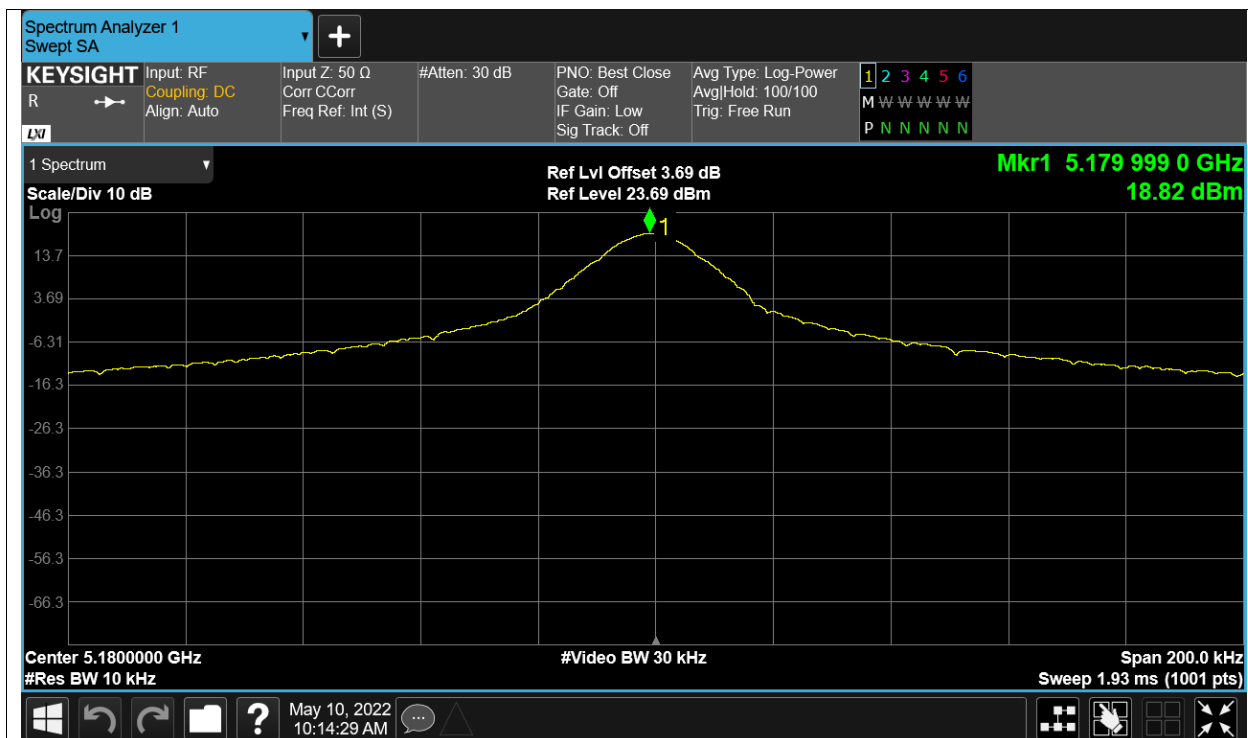
Freq. Stability HVNT a 5180MHz Ant1



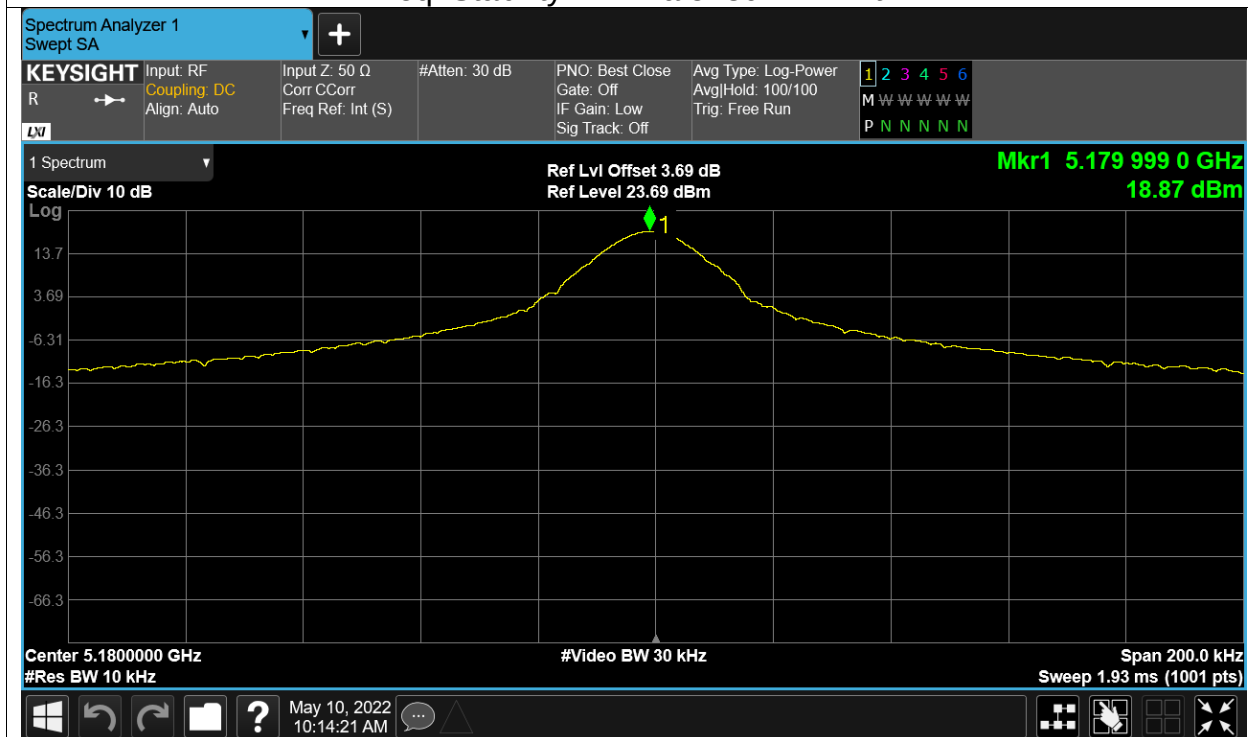
Freq. Stability LVNT a 5180MHz Ant1



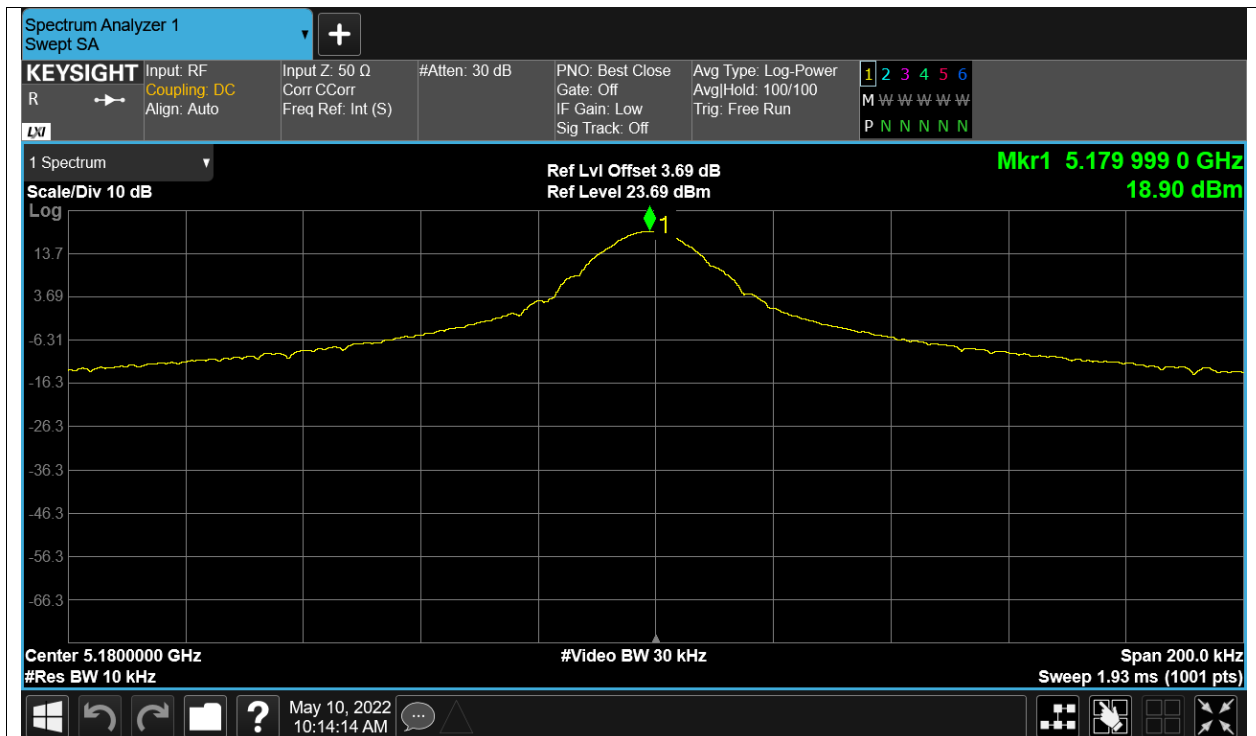
Freq. Stability NVHT a 5180MHz Ant1



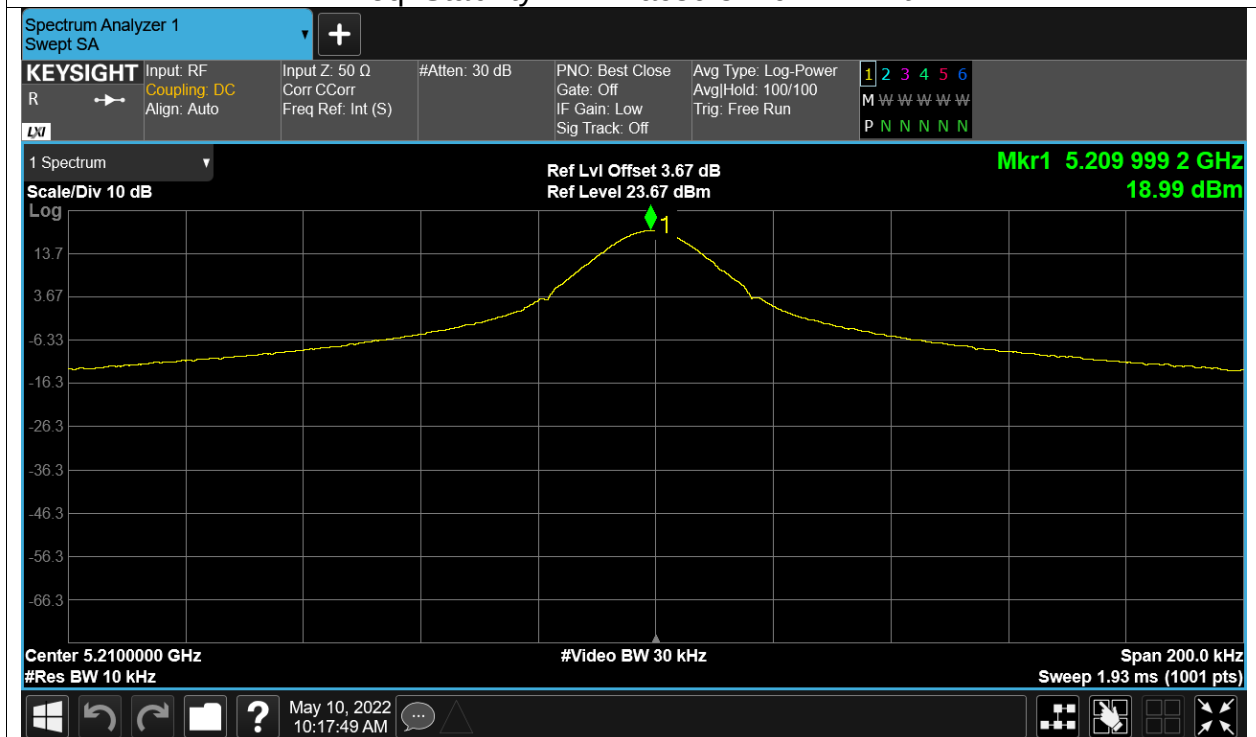
Freq. Stability NVLT a 5180MHz Ant1



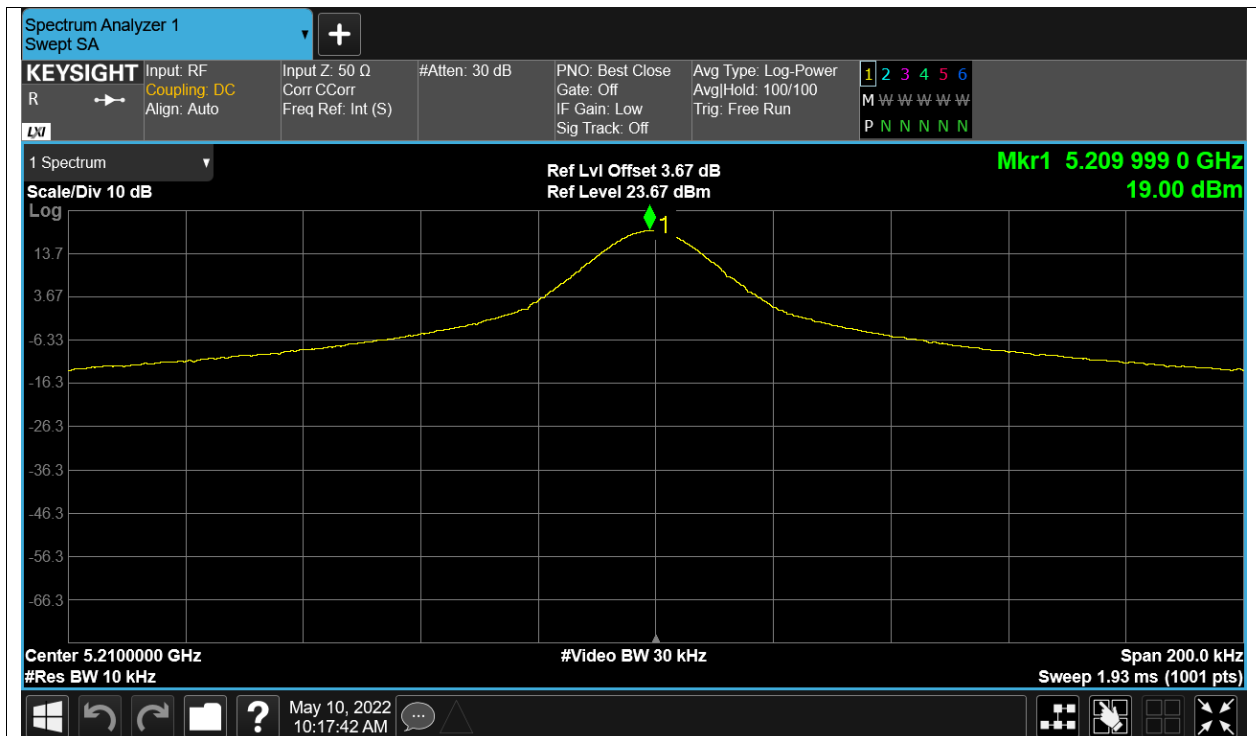
Freq. Stability NVNT a 5180MHz Ant1



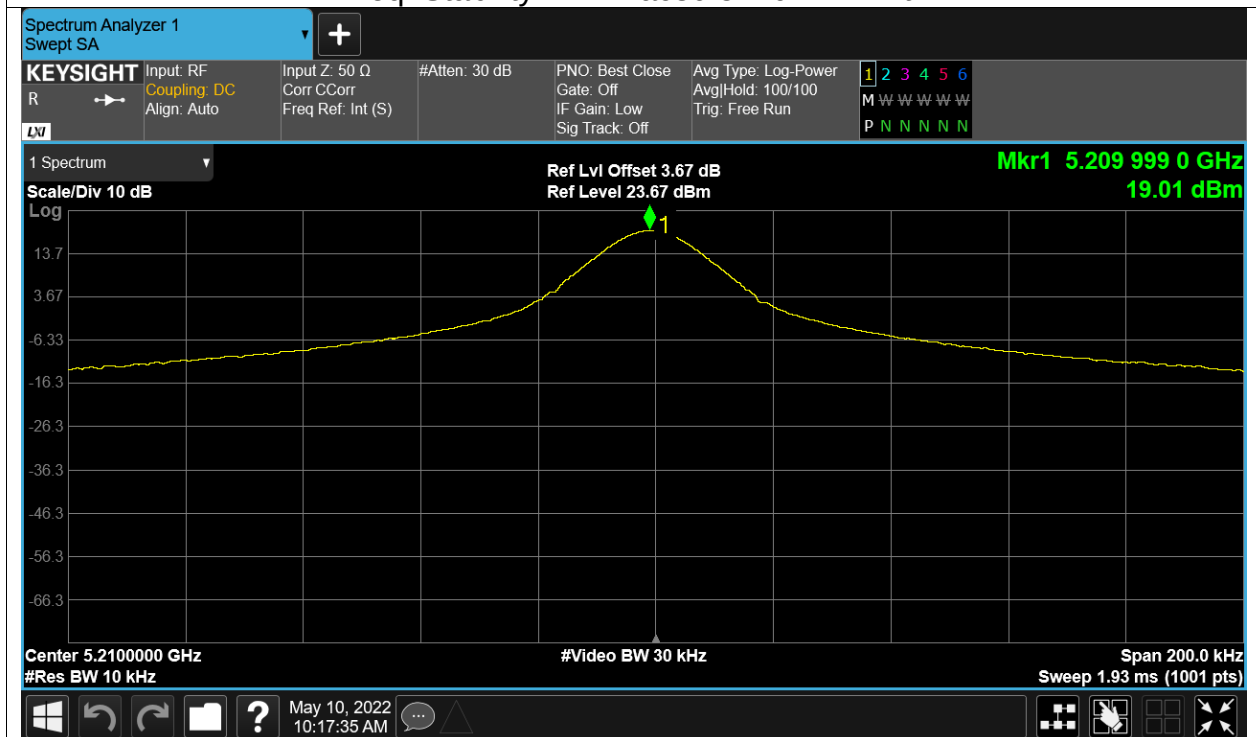
Freq. Stability HVNT ac80 5210MHz Ant1



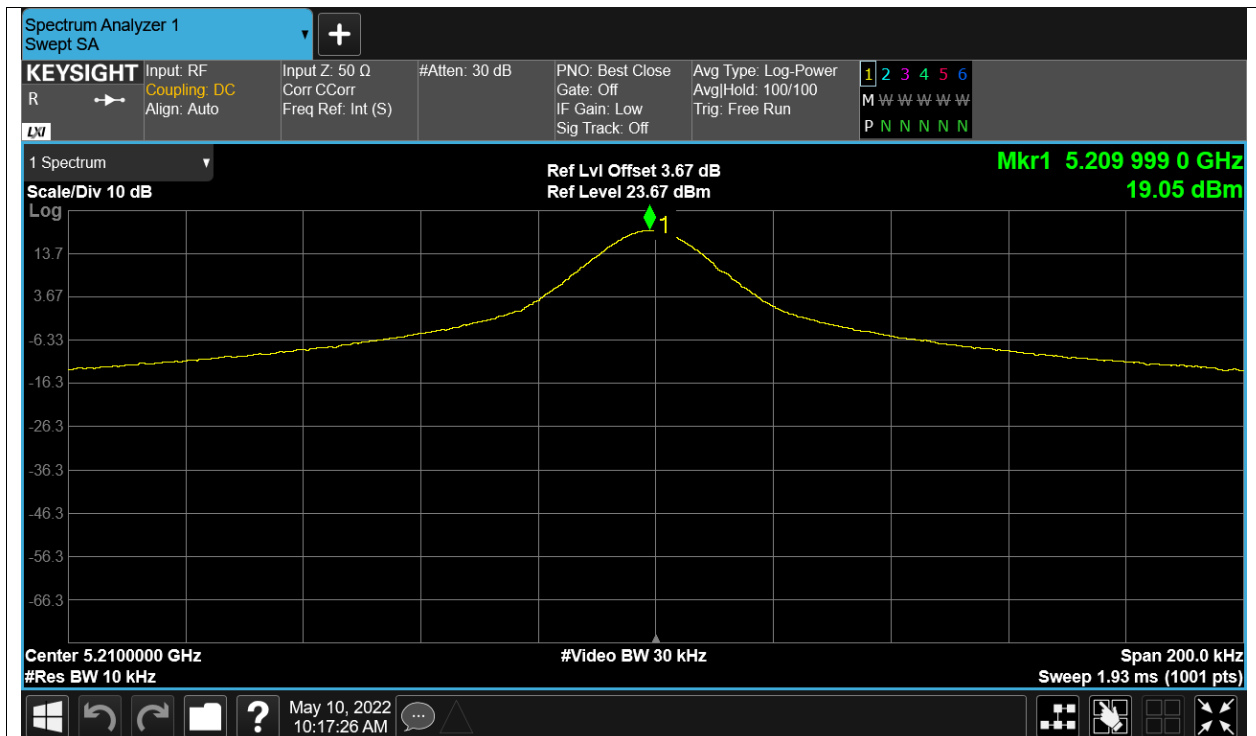
Freq. Stability LVNT ac80 5210MHz Ant1



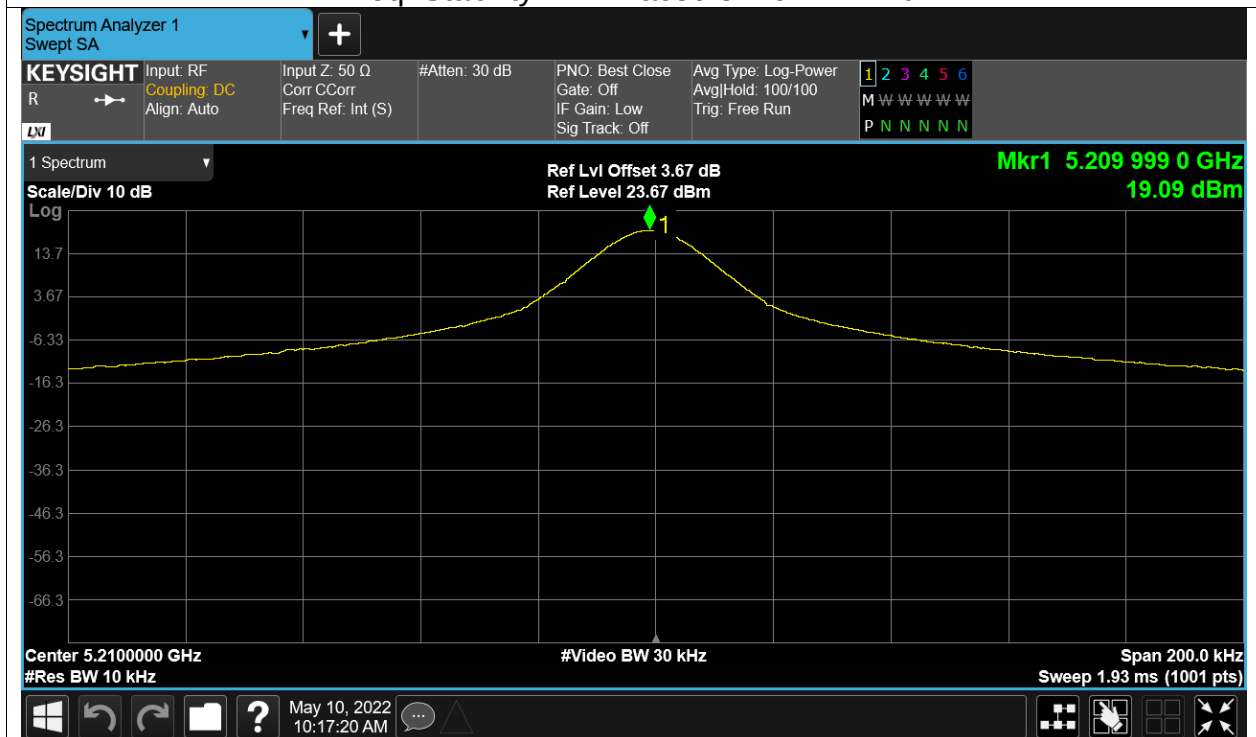
Freq. Stability NVHT ac80 5210MHz Ant1



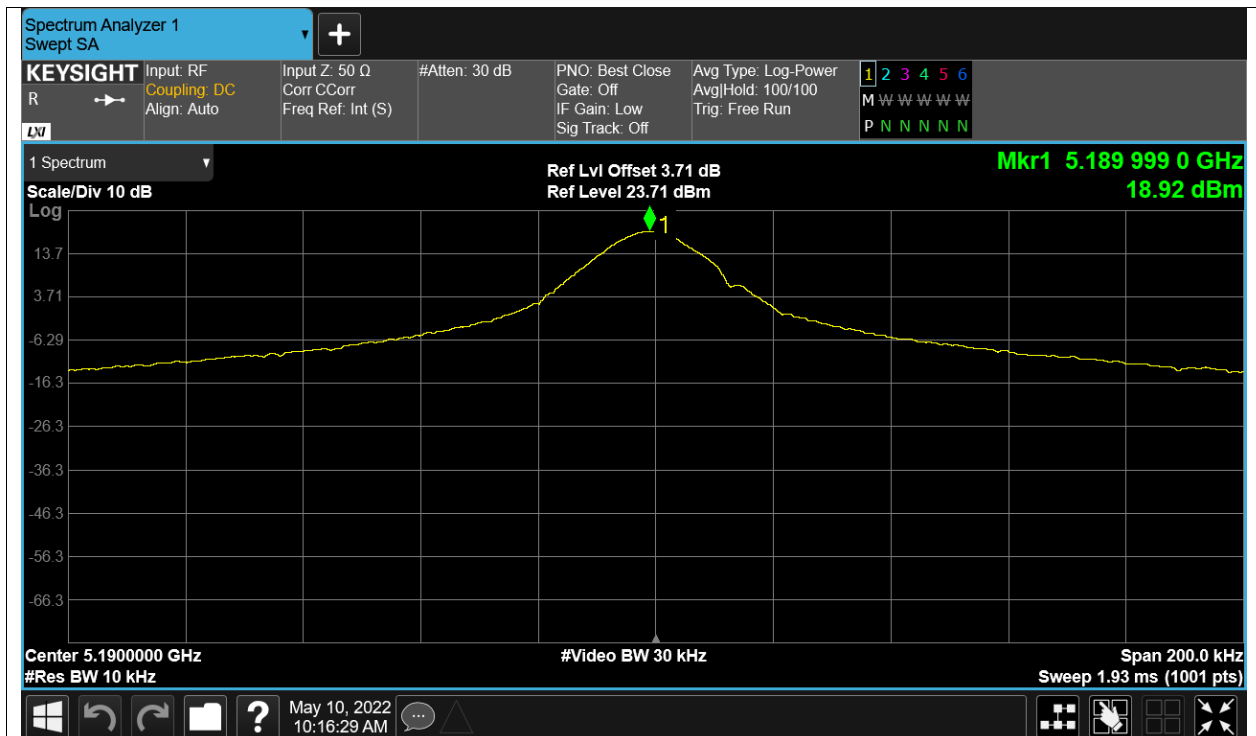
Freq. Stability NVLT ac80 5210MHz Ant1



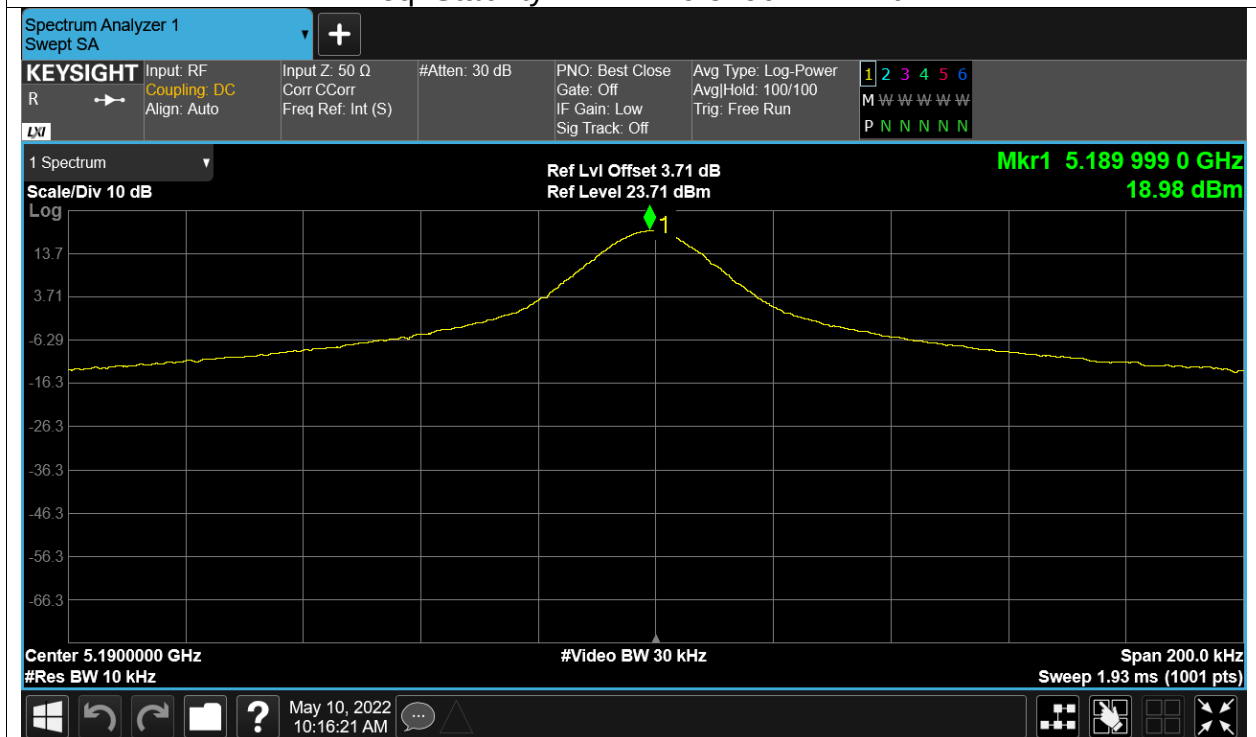
Freq. Stability NVNT ac80 5210MHz Ant1



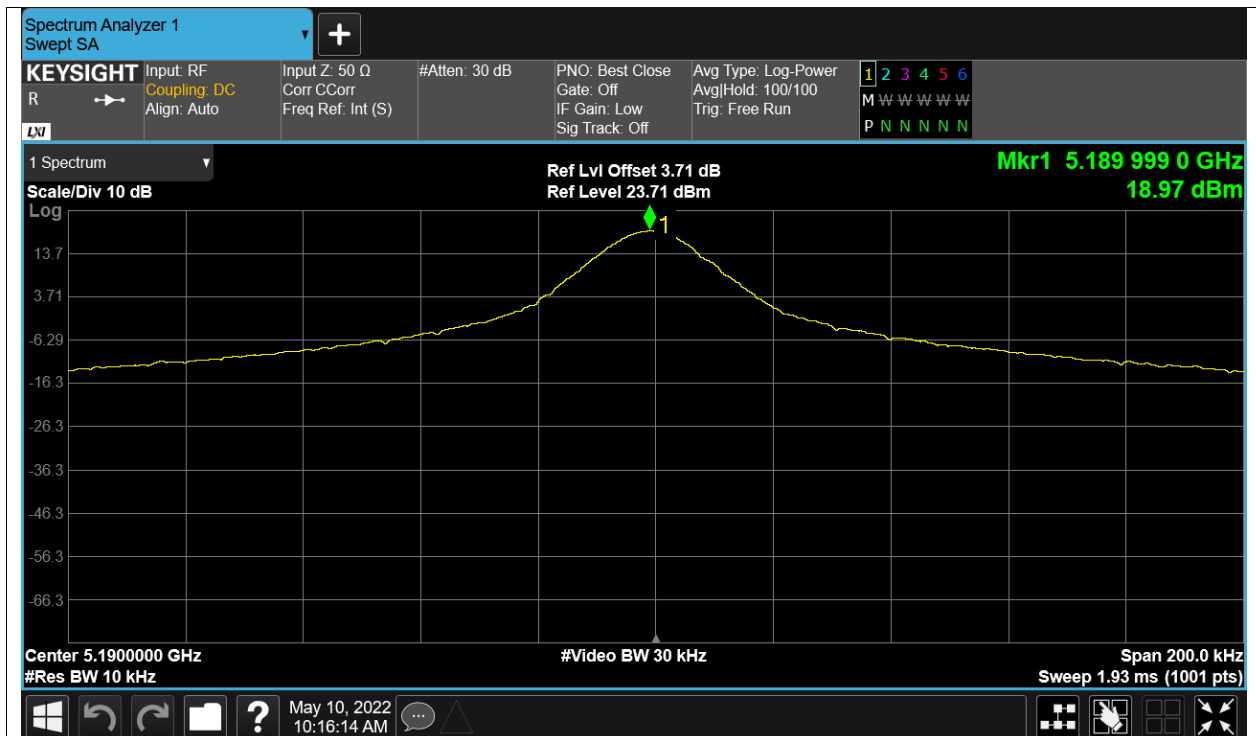
Freq. Stability HVNT n40 5190MHz Ant1



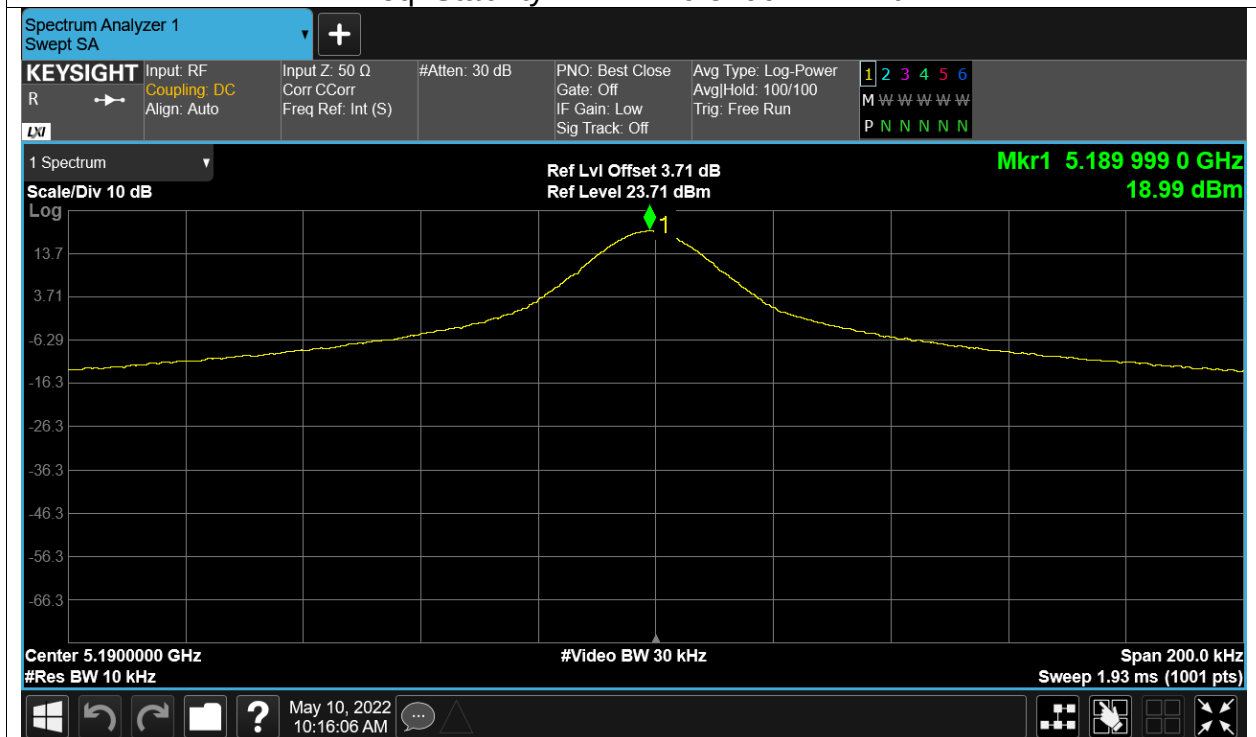
Freq. Stability LVNT n40 5190MHz Ant1



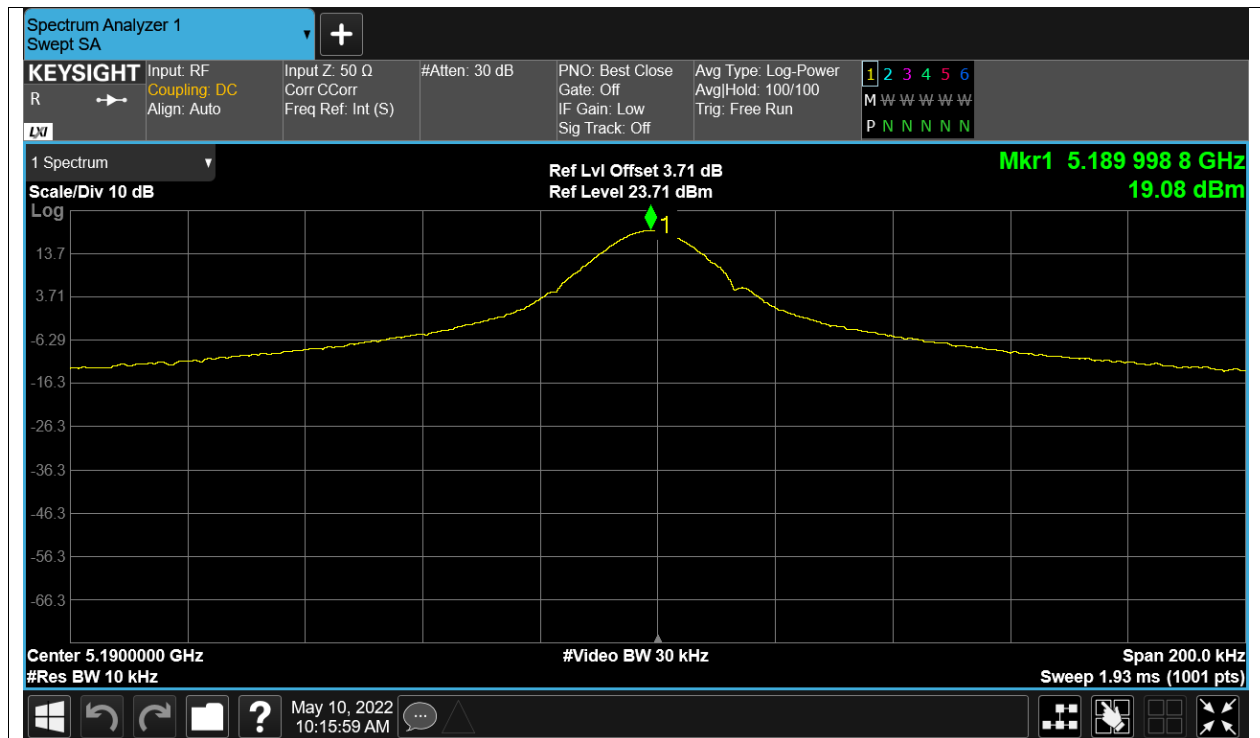
Freq. Stability NVHT n40 5190MHz Ant1



Freq. Stability NVLT n40 5190MHz Ant1



Freq. Stability NVNT n40 5190MHz Ant1

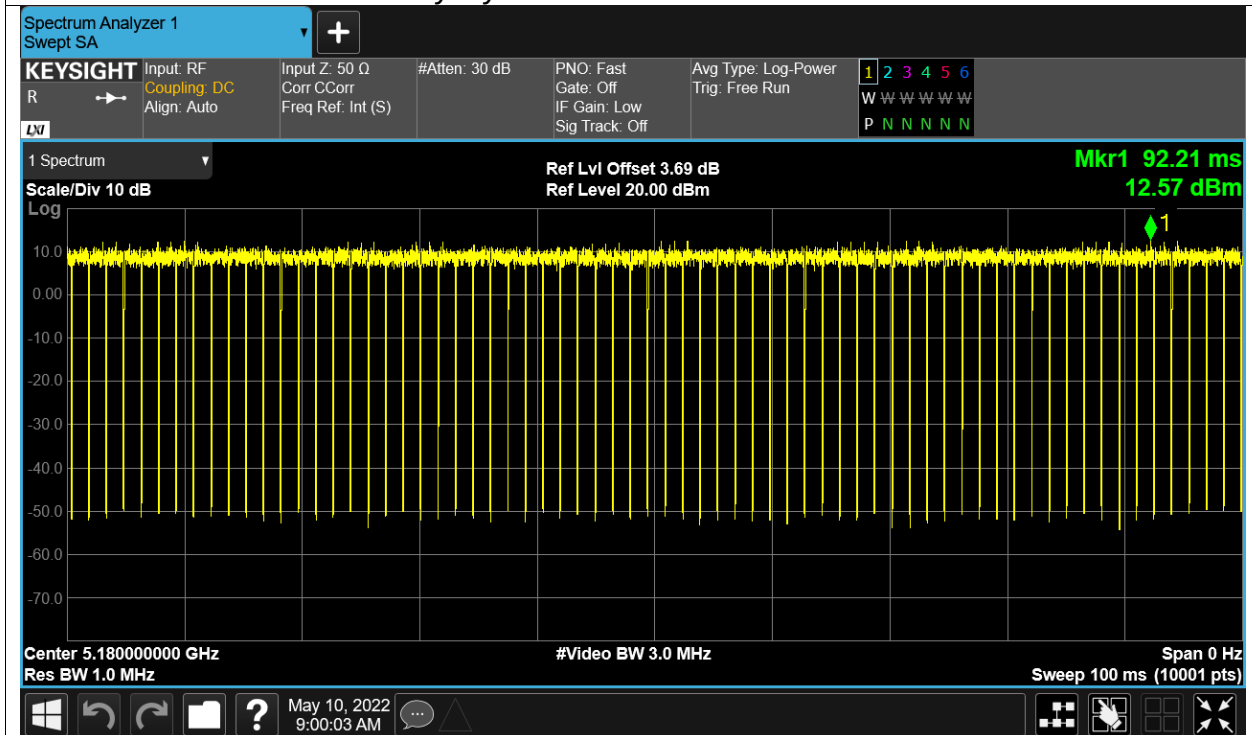


Duty Cycle

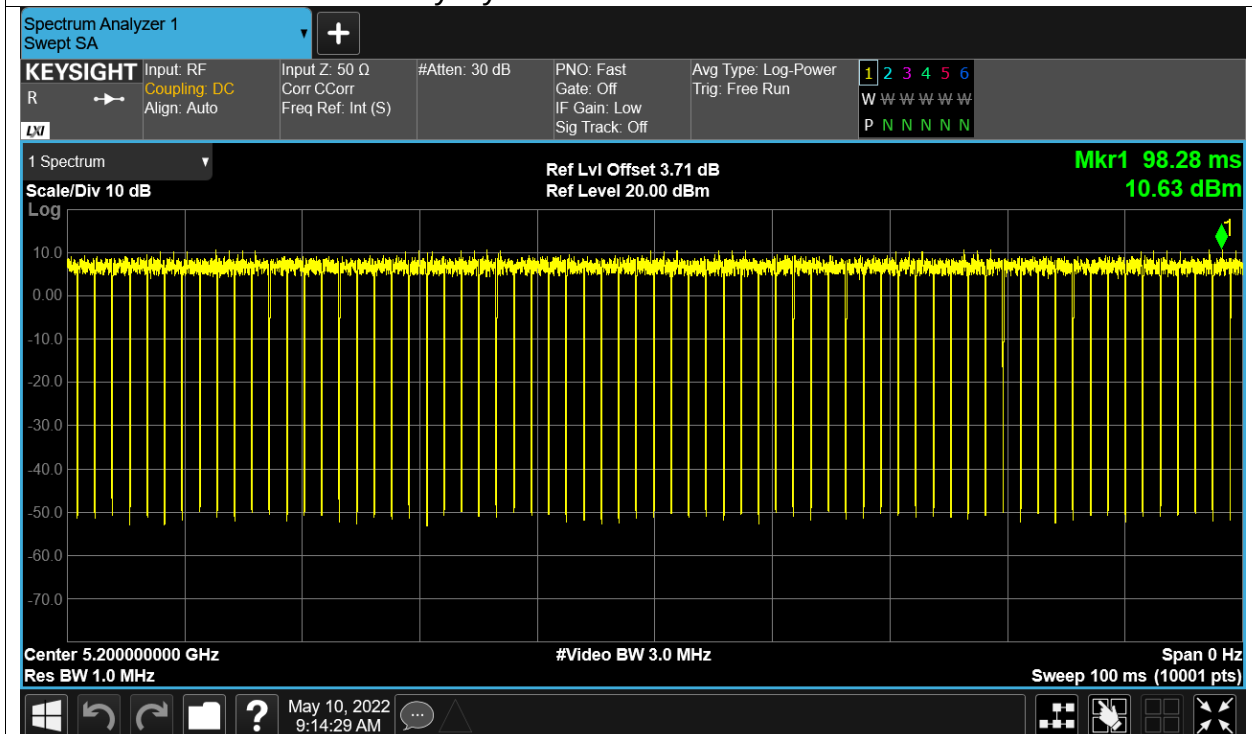
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	94.7	0.24
NVNT	a	5200	Ant1	94.75	0.23
NVNT	a	5240	Ant1	93.92	0.27
NVNT	ac20	5180	Ant1	94.38	0.25
NVNT	ac20	5200	Ant1	93.36	0.3
NVNT	ac20	5240	Ant1	92.92	0.32
NVNT	ac40	5190	Ant1	88.62	0.52
NVNT	ac40	5230	Ant1	88.69	0.52
NVNT	ac80	5210	Ant1	80.44	0.95
NVNT	n20	5180	Ant1	93.83	0.28
NVNT	n20	5200	Ant1	92.4	0.34
NVNT	n20	5240	Ant1	92.51	0.34
NVNT	n40	5190	Ant1	89.37	0.49
NVNT	n40	5230	Ant1	87.95	0.56

Test Graphs

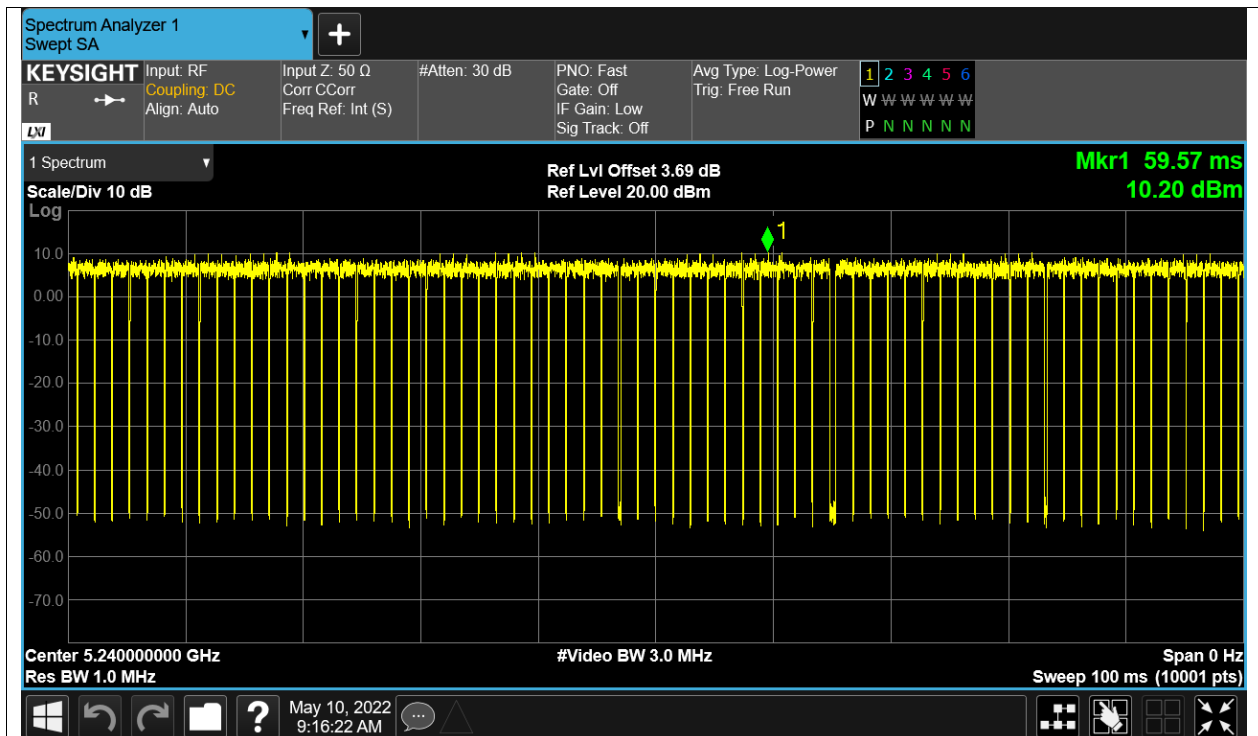
Duty Cycle NVNT a 5180MHz Ant1



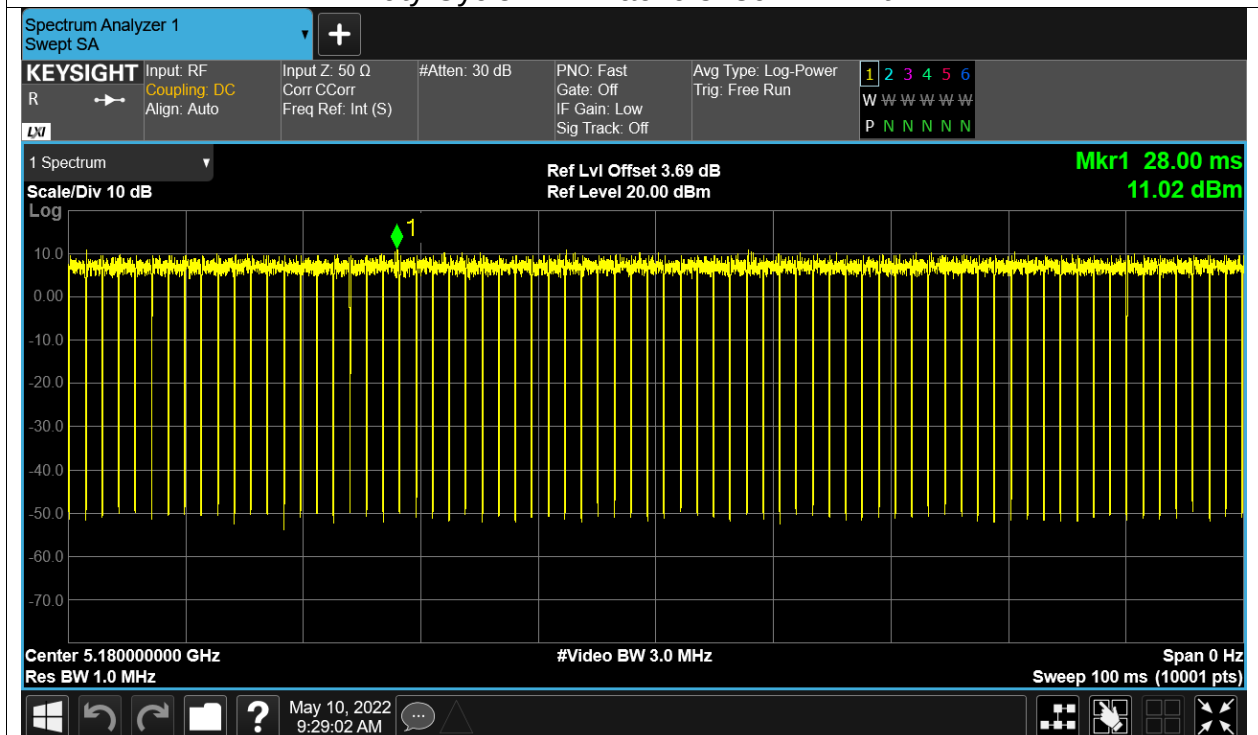
Duty Cycle NVNT a 5200MHz Ant1



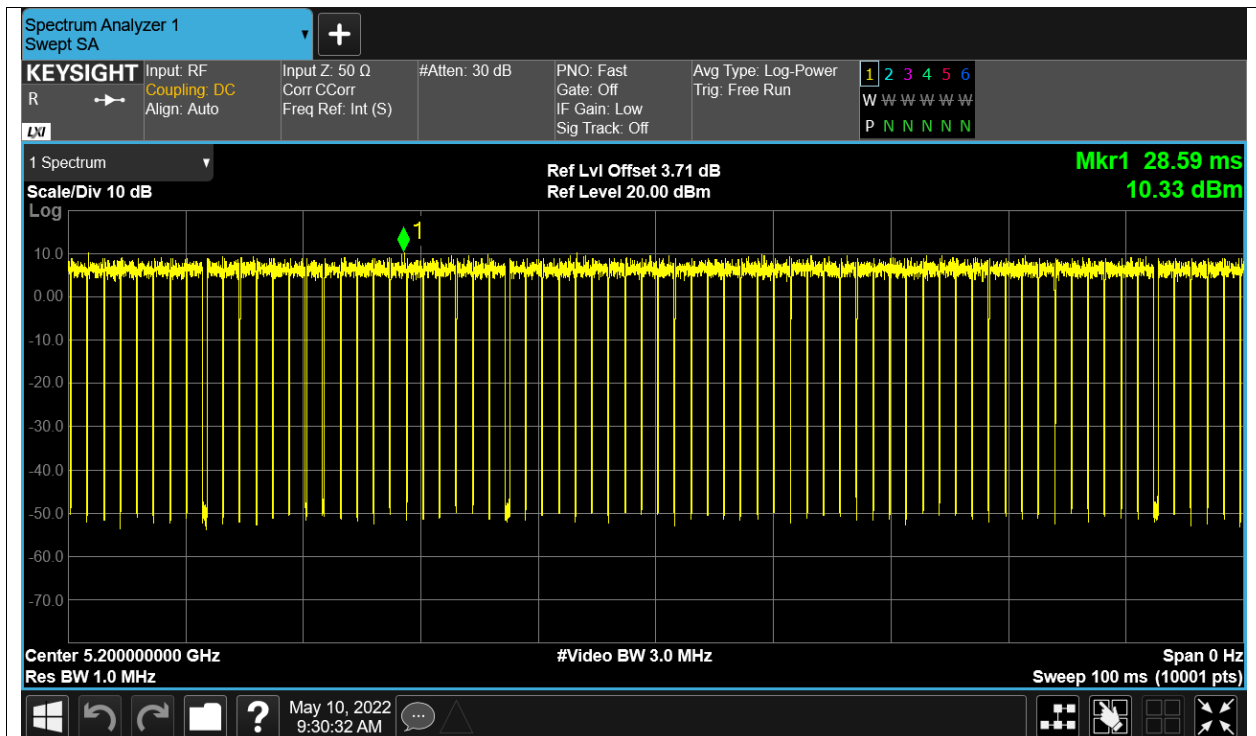
Duty Cycle NVNT a 5240MHz Ant1



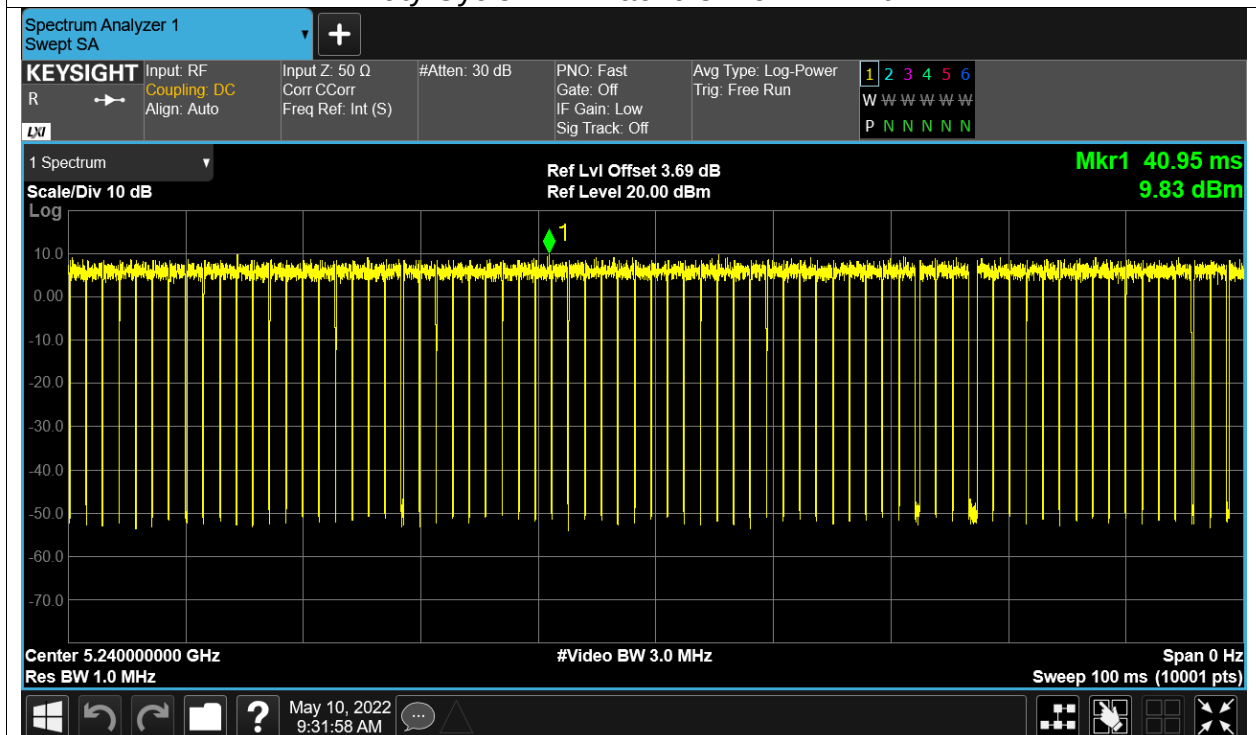
Duty Cycle NVNT ac20 5180MHz Ant1



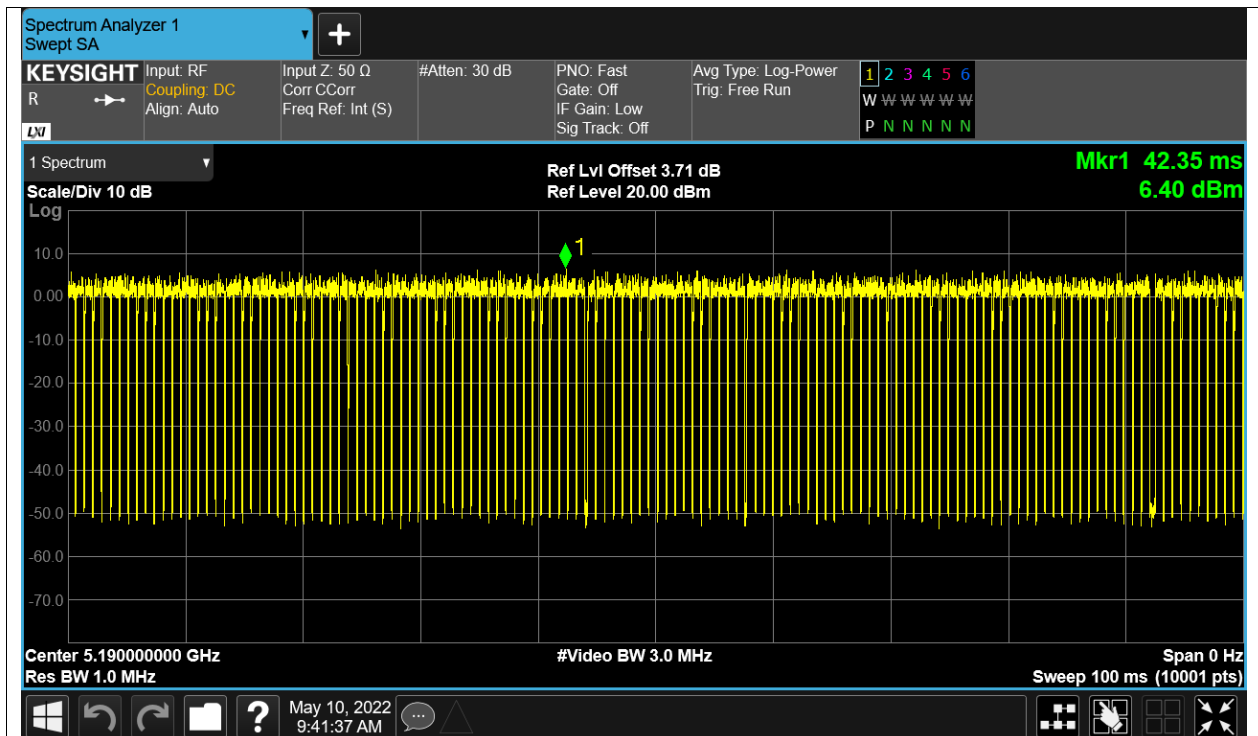
Duty Cycle NVNT ac20 5200MHz Ant1



Duty Cycle NVNT ac20 5240MHz Ant1



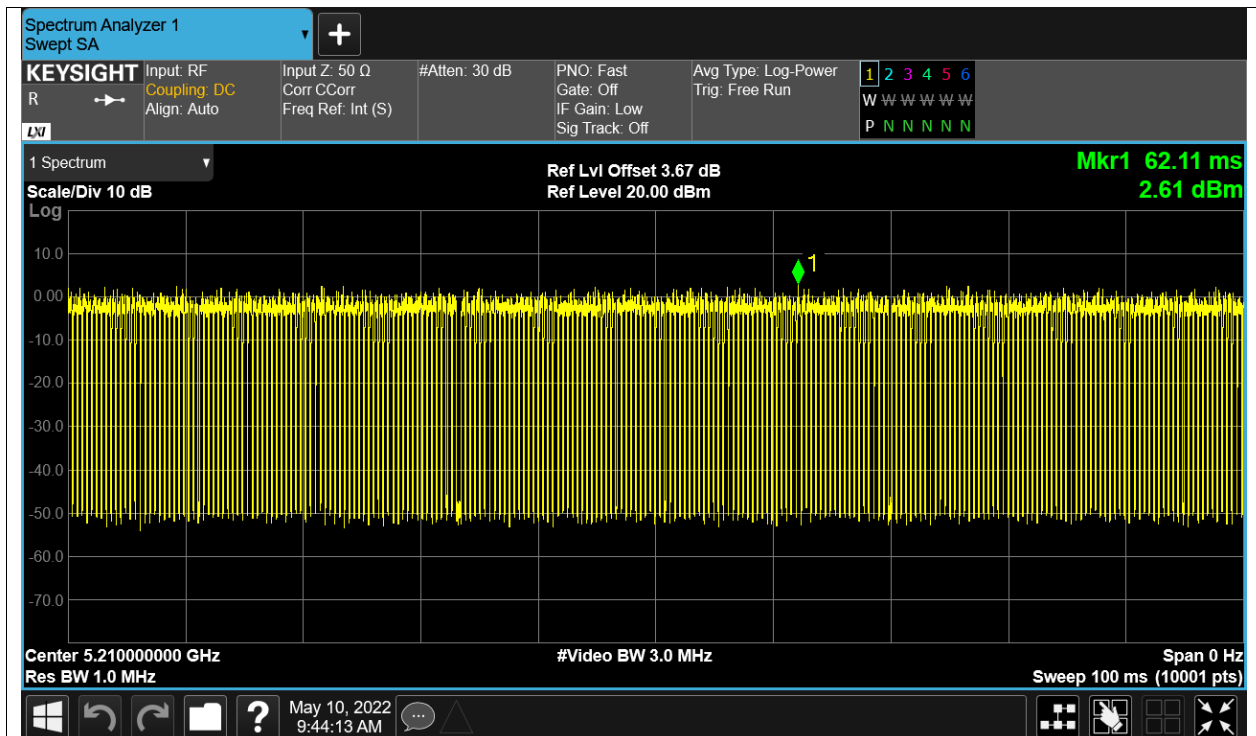
Duty Cycle NVNT ac40 5190MHz Ant1



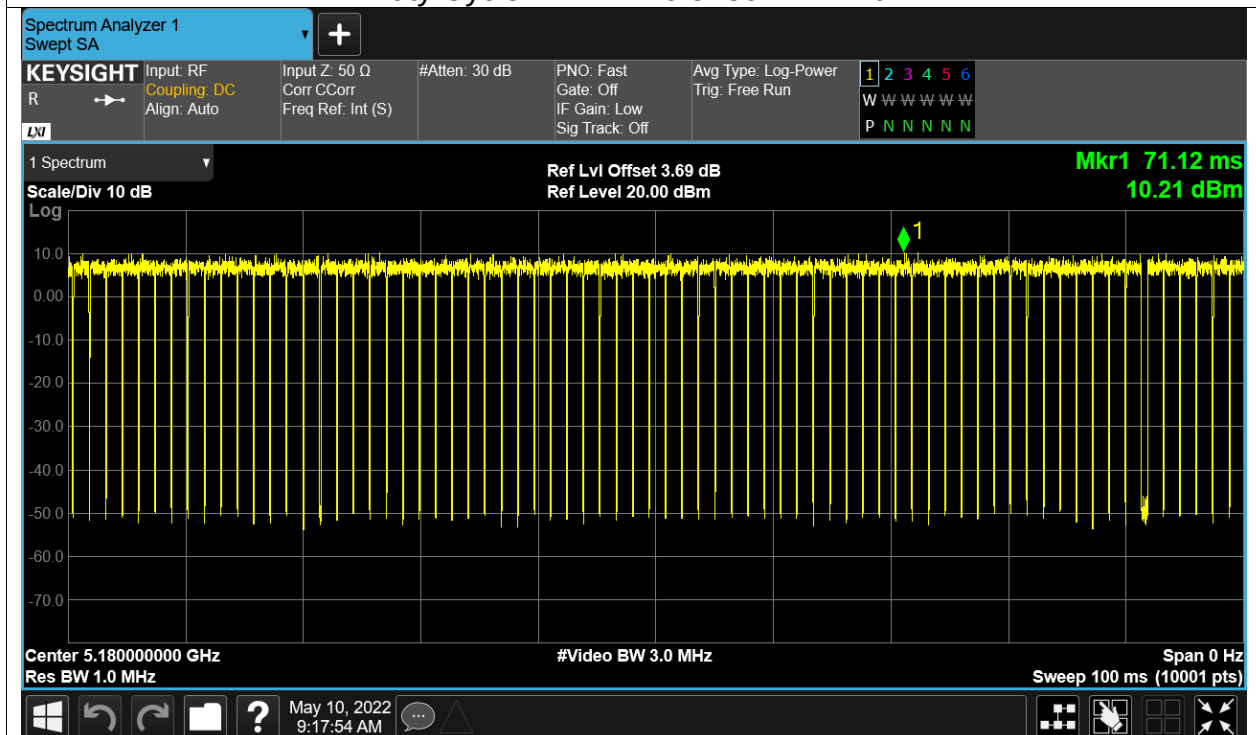
Duty Cycle NVNT ac40 5230MHz Ant1



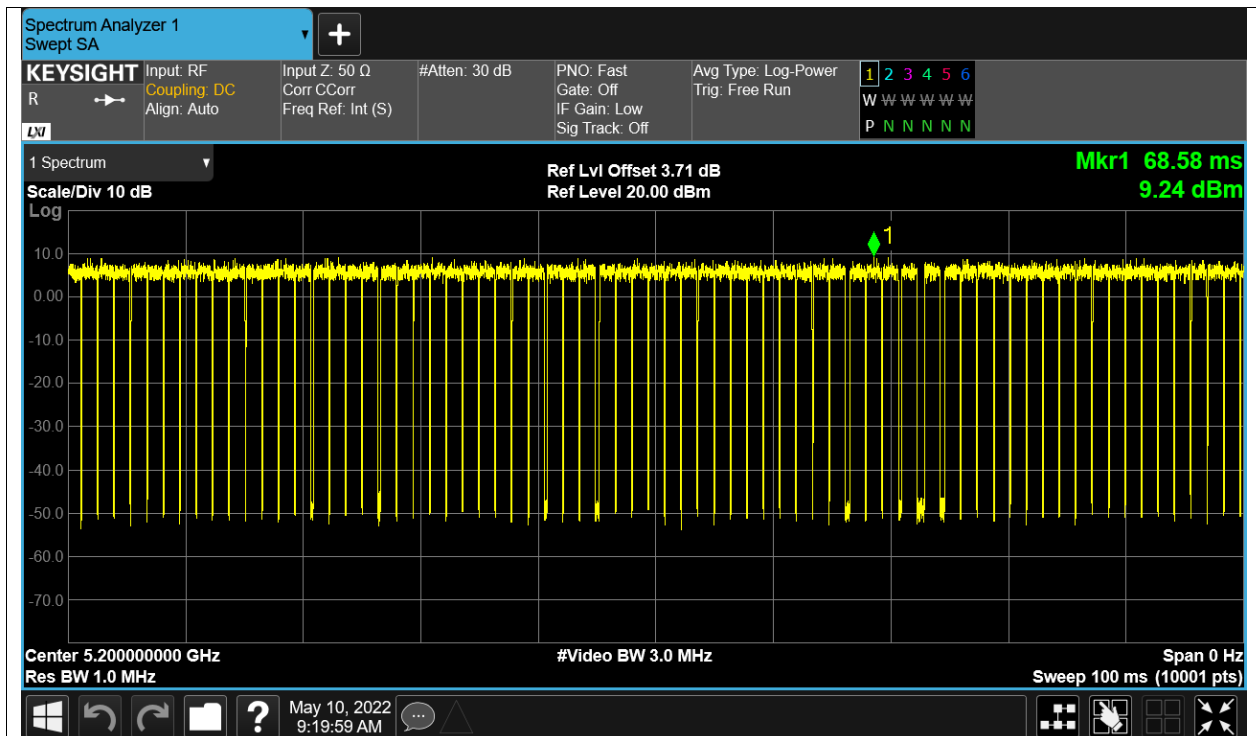
Duty Cycle NVNT ac80 5210MHz Ant1



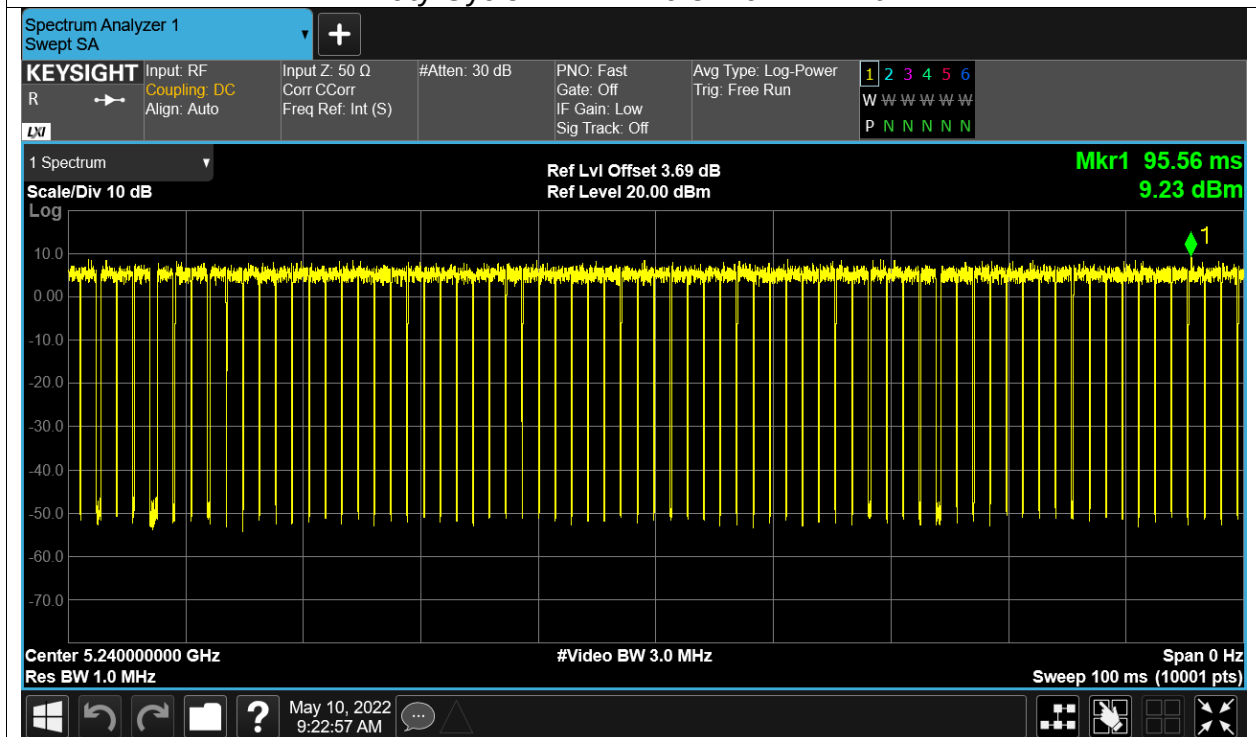
Duty Cycle NVNT n20 5180MHz Ant1



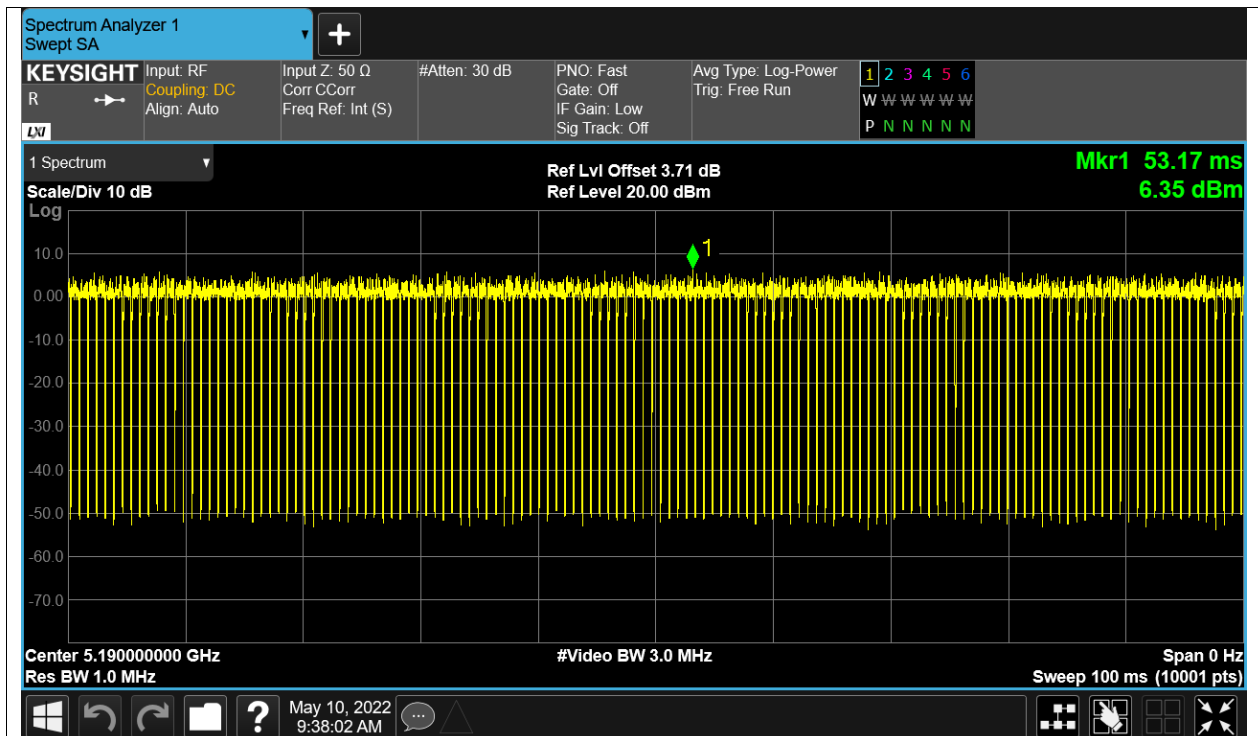
Duty Cycle NVNT n20 5200MHz Ant1



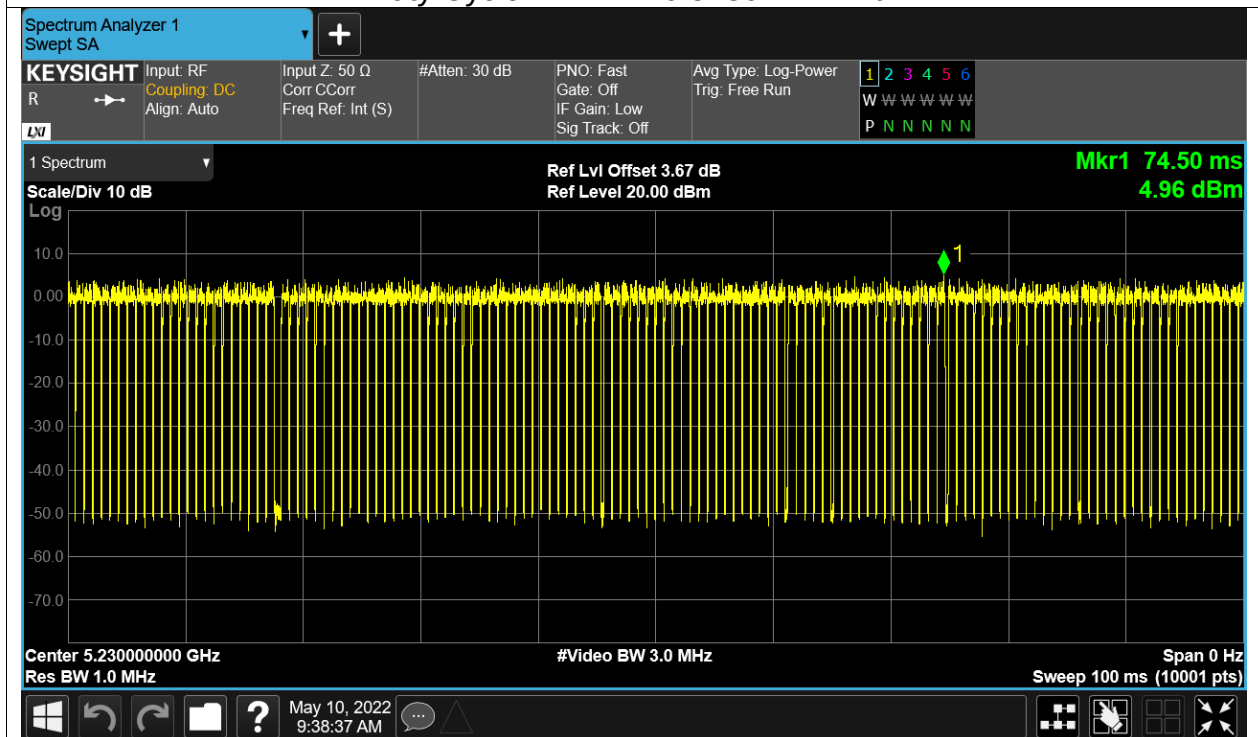
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

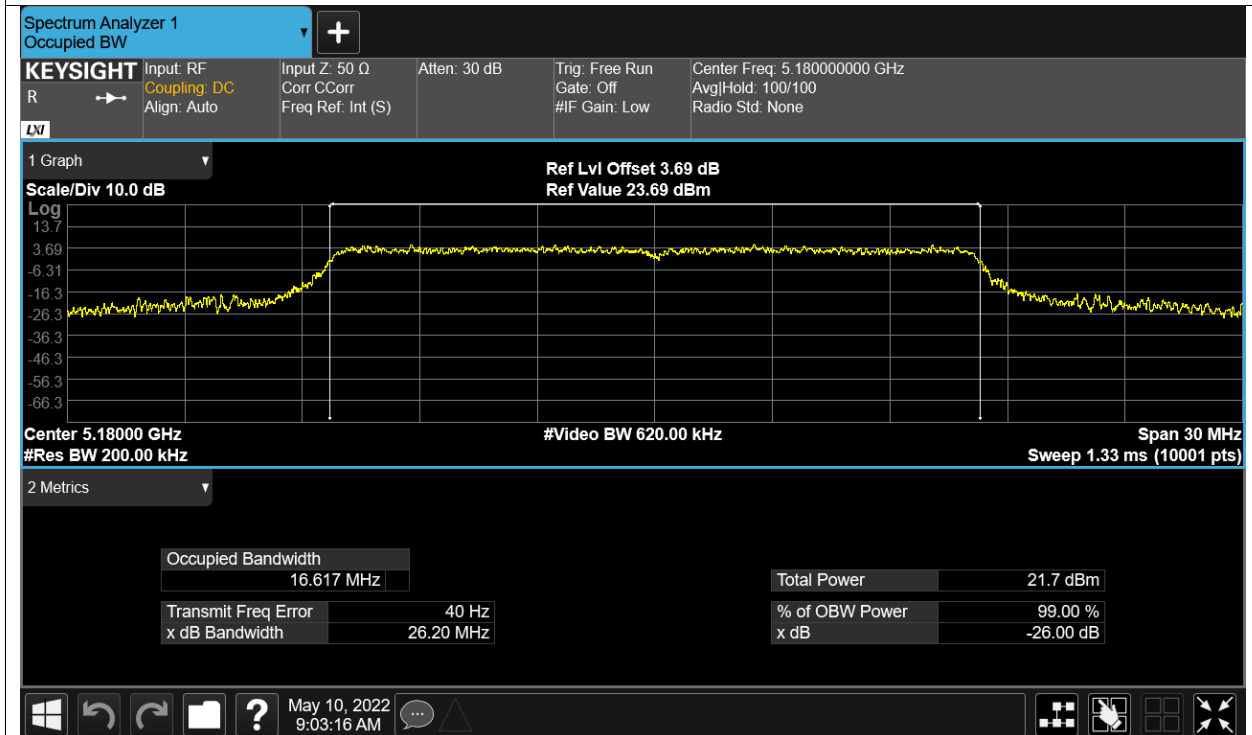
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.82	0.24	17.06	24	Pass
NVNT	a	5200	Ant1	14.51	0.23	14.74	24	Pass
NVNT	a	5240	Ant1	14.5	0.27	14.77	24	Pass
NVNT	ac20	5180	Ant1	15.07	0.25	15.32	24	Pass
NVNT	ac20	5200	Ant1	14.14	0.3	14.44	24	Pass
NVNT	ac20	5240	Ant1	14.04	0.32	14.36	24	Pass
NVNT	ac40	5190	Ant1	14.51	0.75	15.26	24	Pass
NVNT	ac40	5230	Ant1	14.38	0.52	14.9	24	Pass
NVNT	ac80	5210	Ant1	14	0.95	14.95	24	Pass
NVNT	n20	5180	Ant1	15	0.28	15.28	24	Pass
NVNT	n20	5200	Ant1	13.67	0.34	14.01	24	Pass
NVNT	n20	5240	Ant1	13.47	0.34	13.81	24	Pass
NVNT	n40	5190	Ant1	14.36	0.51	14.87	24	Pass
NVNT	n40	5230	Ant1	14.18	0.56	14.74	24	Pass

Occupied Channel Bandwidth

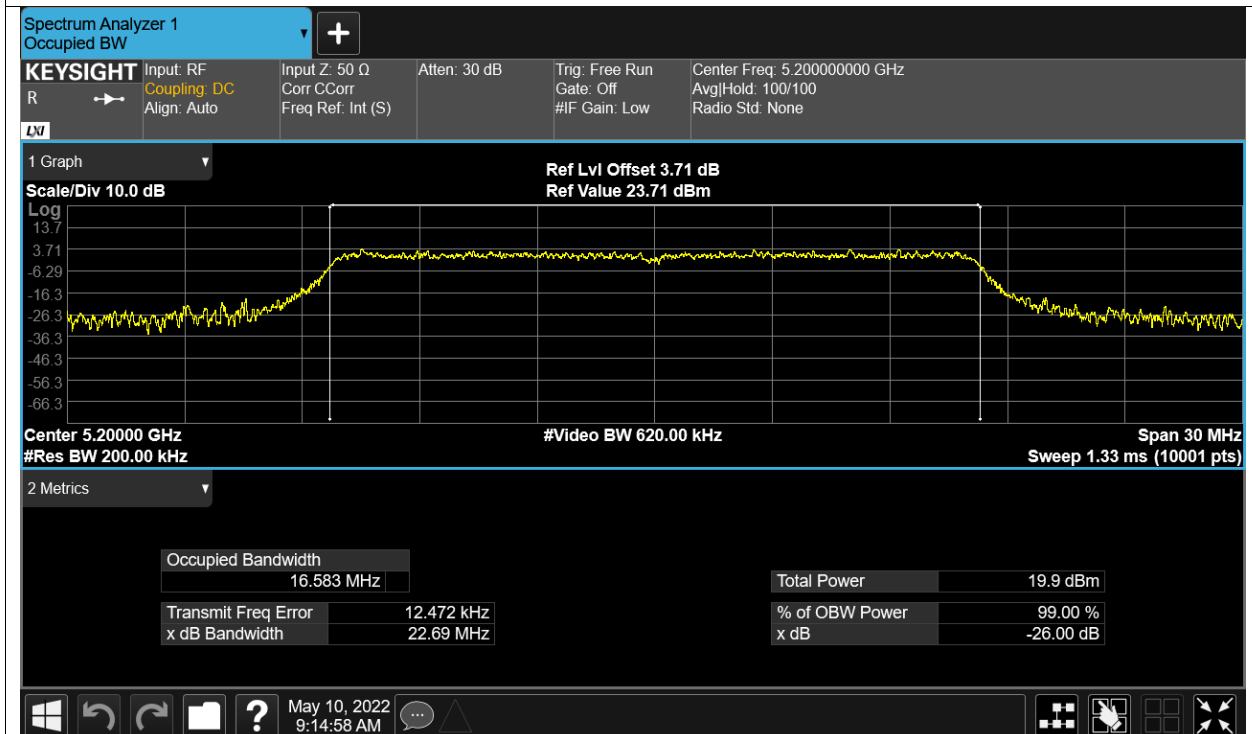
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.61721876
NVNT	a	5200	Ant1	16.58326218
NVNT	a	5240	Ant1	16.55245602
NVNT	ac20	5180	Ant1	17.60700113
NVNT	ac20	5200	Ant1	17.5796734
NVNT	ac20	5240	Ant1	17.57175461
NVNT	ac40	5190	Ant1	36.11604771
NVNT	ac40	5230	Ant1	36.09434814
NVNT	ac80	5210	Ant1	75.49350208
NVNT	n20	5180	Ant1	17.59732688
NVNT	n20	5200	Ant1	17.58024562
NVNT	n20	5240	Ant1	17.57133525
NVNT	n40	5190	Ant1	36.08335848
NVNT	n40	5230	Ant1	36.07627507

Test Graphs

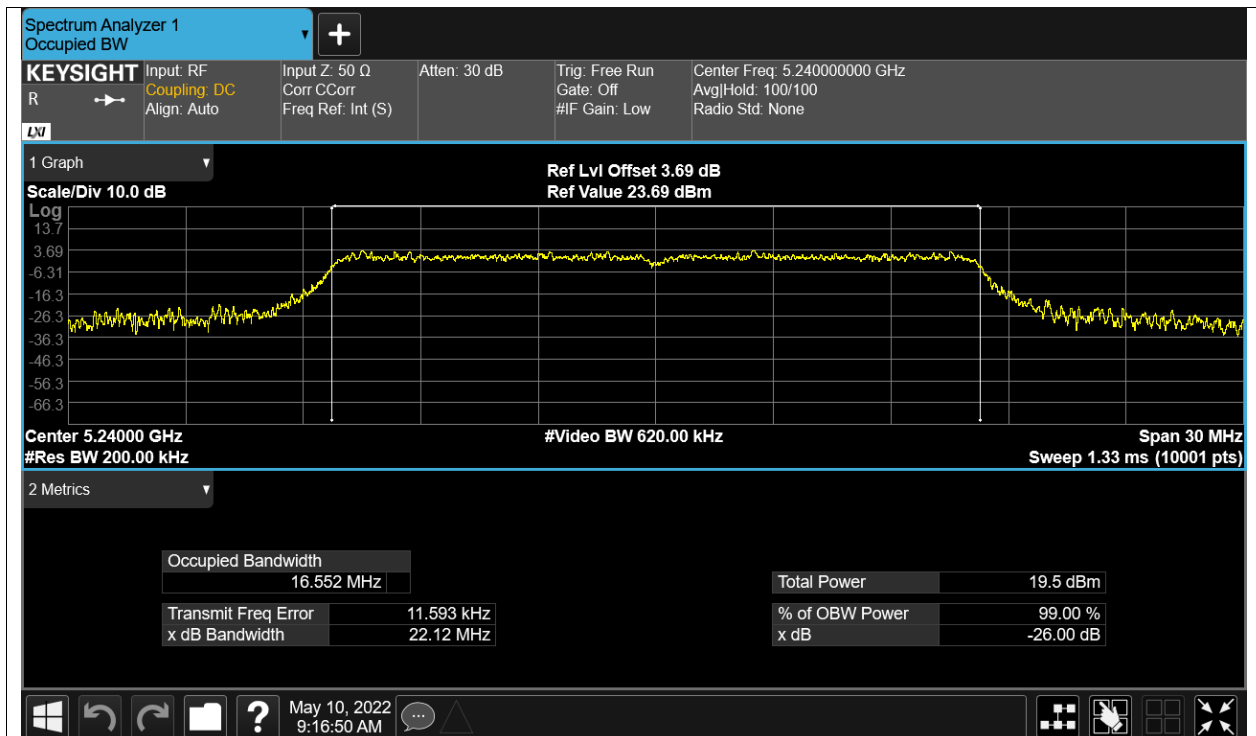
OBW NVNT a 5180MHz Ant1



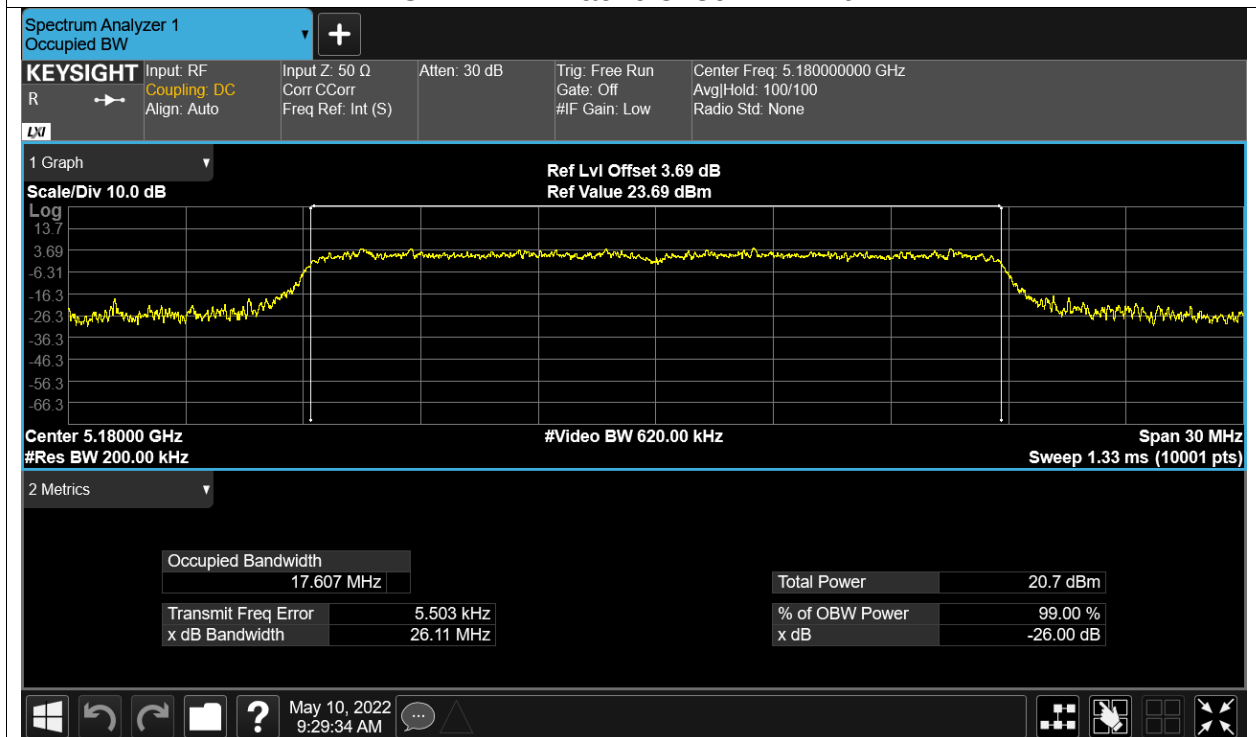
OBW NVNT a 5200MHz Ant1



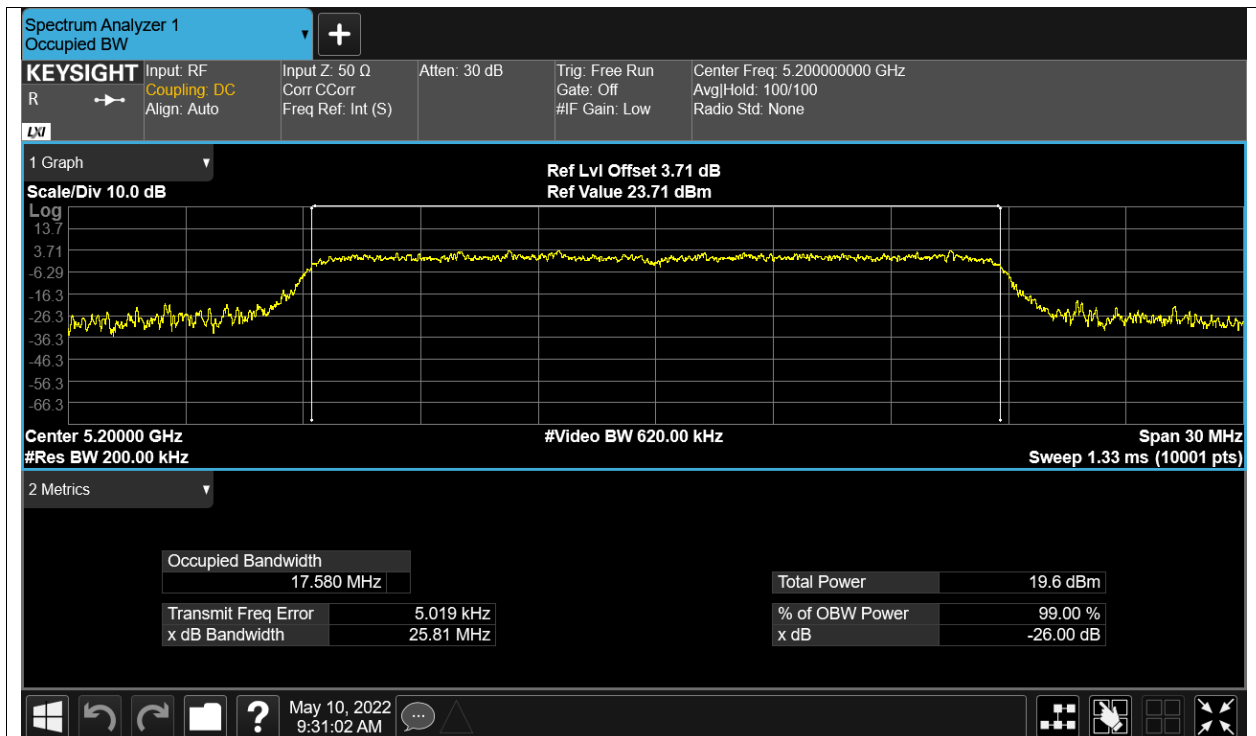
OBW NVNT a 5240MHz Ant1



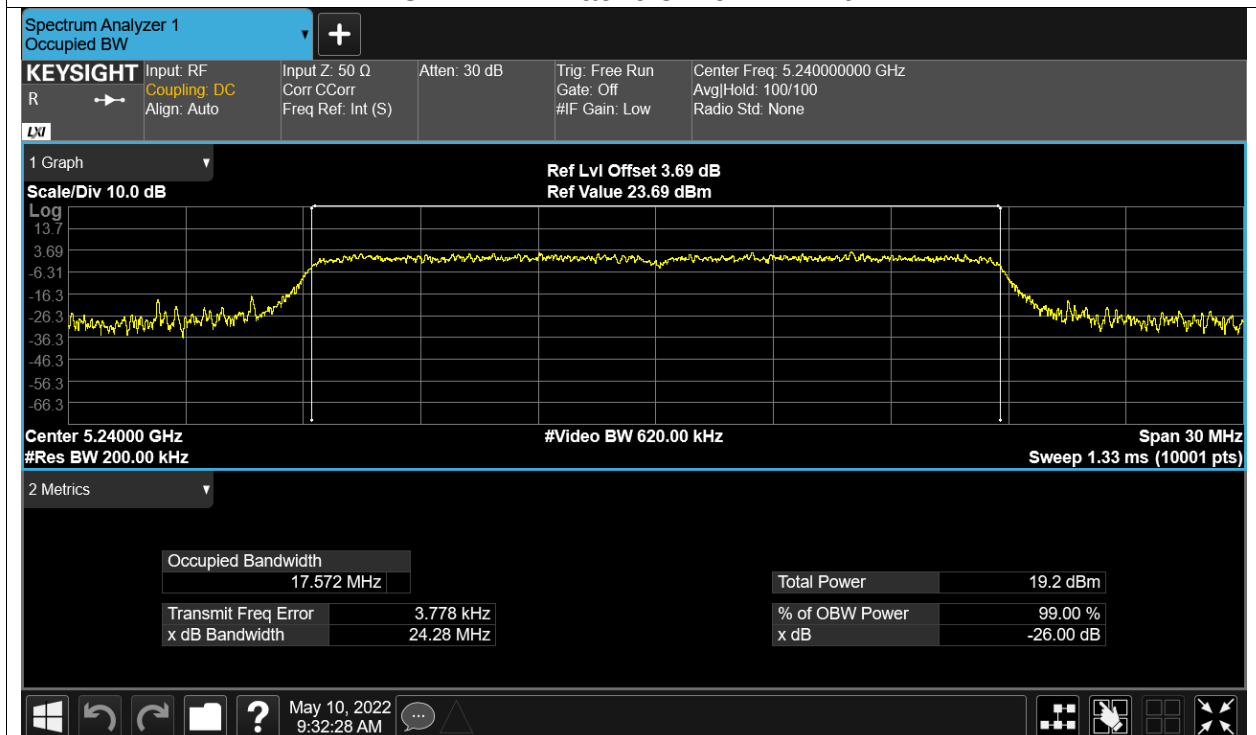
OBW NVNT ac20 5180MHz Ant1



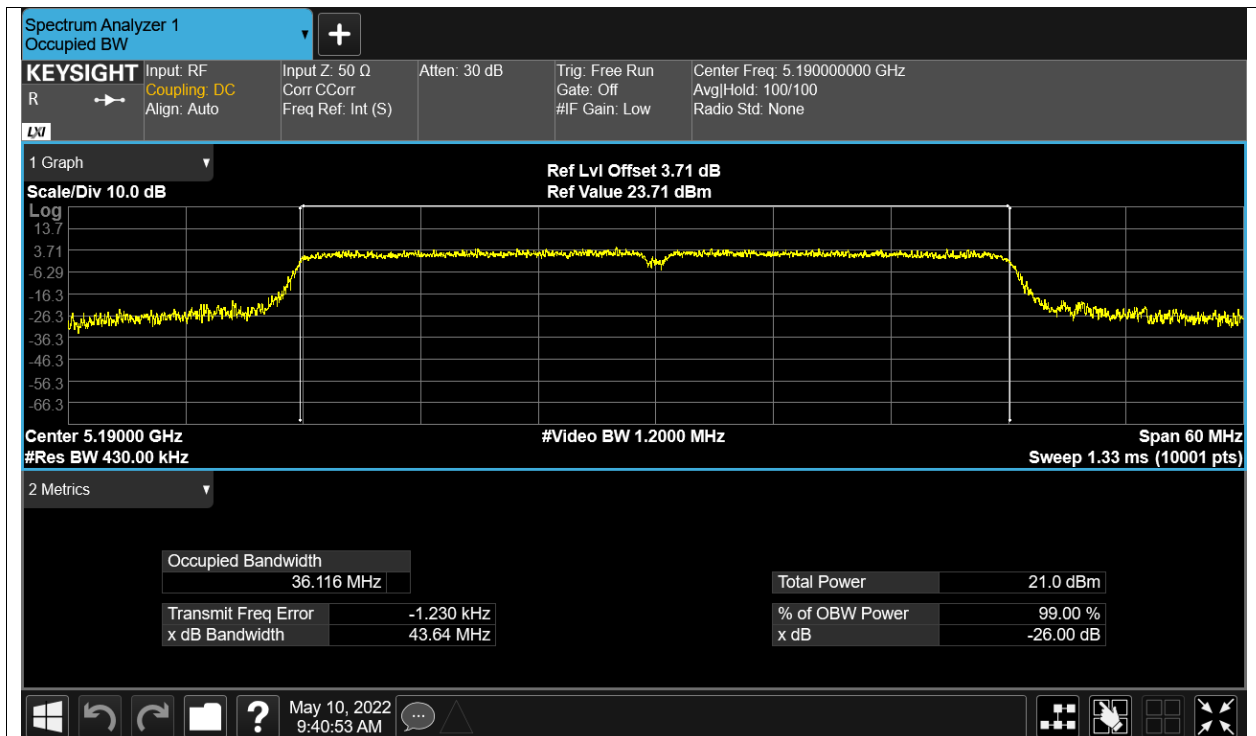
OBW NVNT ac20 5200MHz Ant1



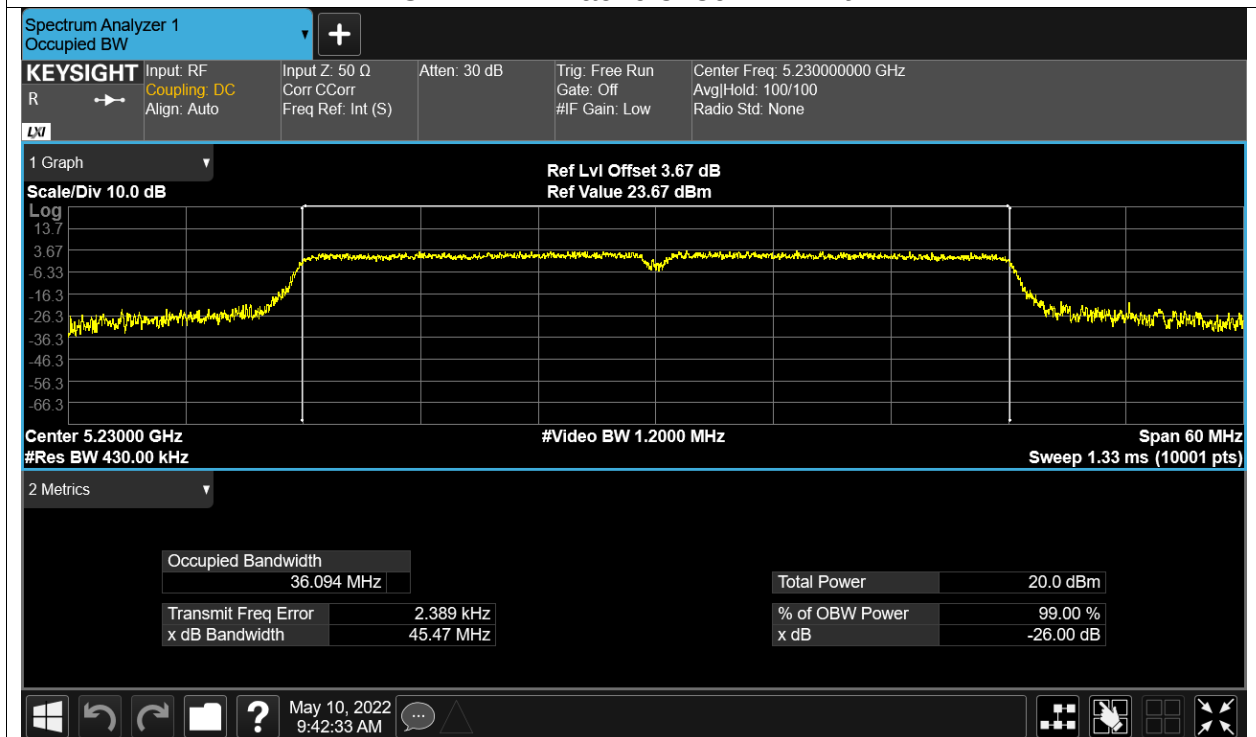
OBW NVNT ac20 5240MHz Ant1



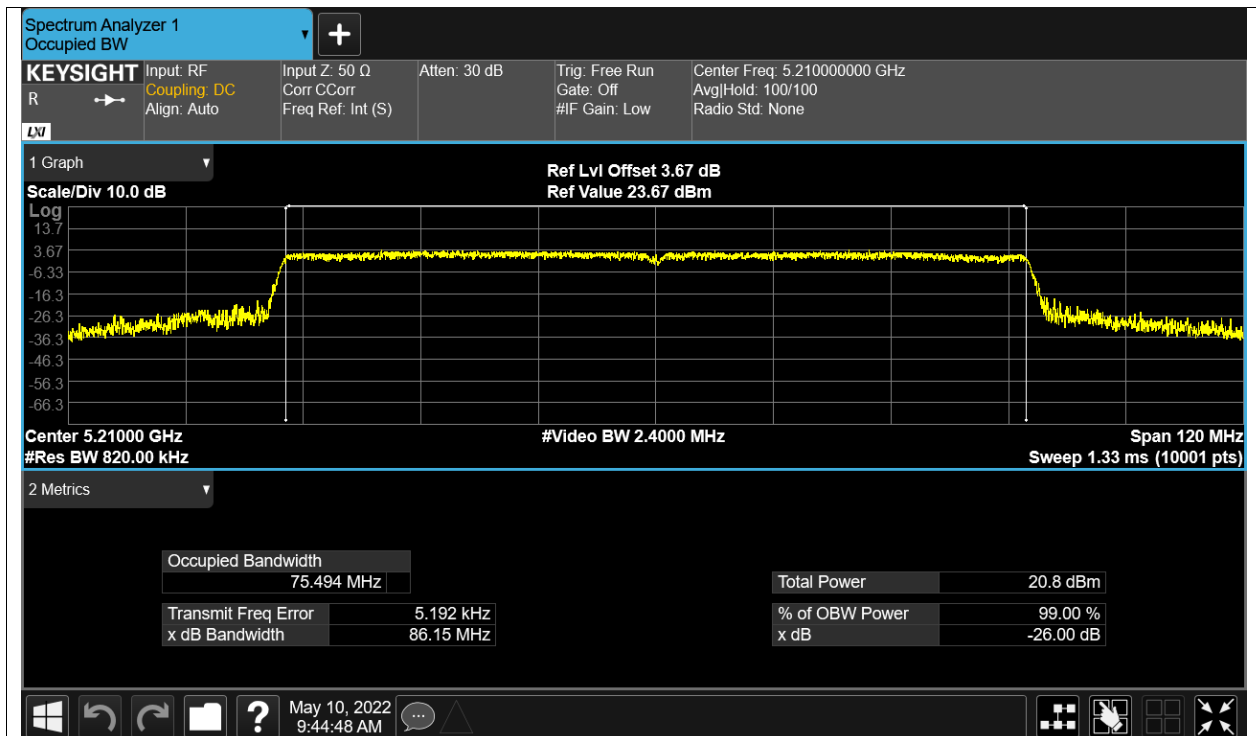
OBW NVNT ac40 5190MHz Ant1



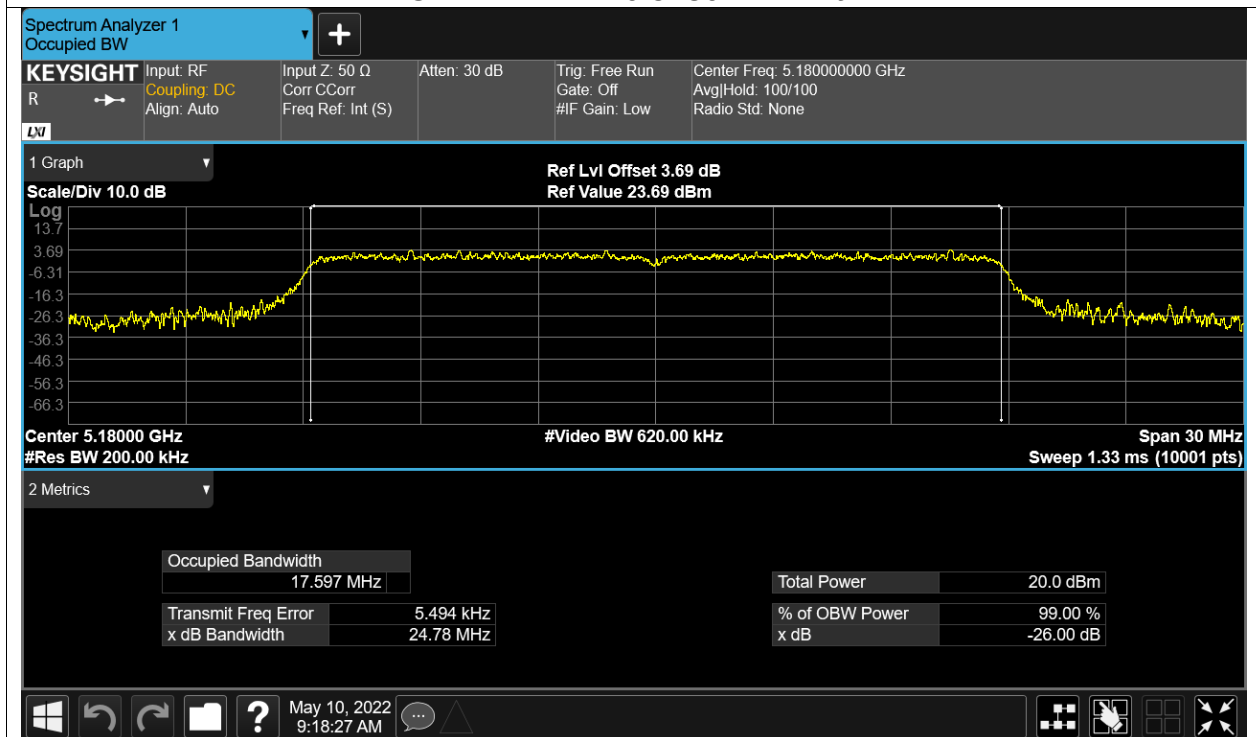
OBW NVNT ac40 5230MHz Ant1



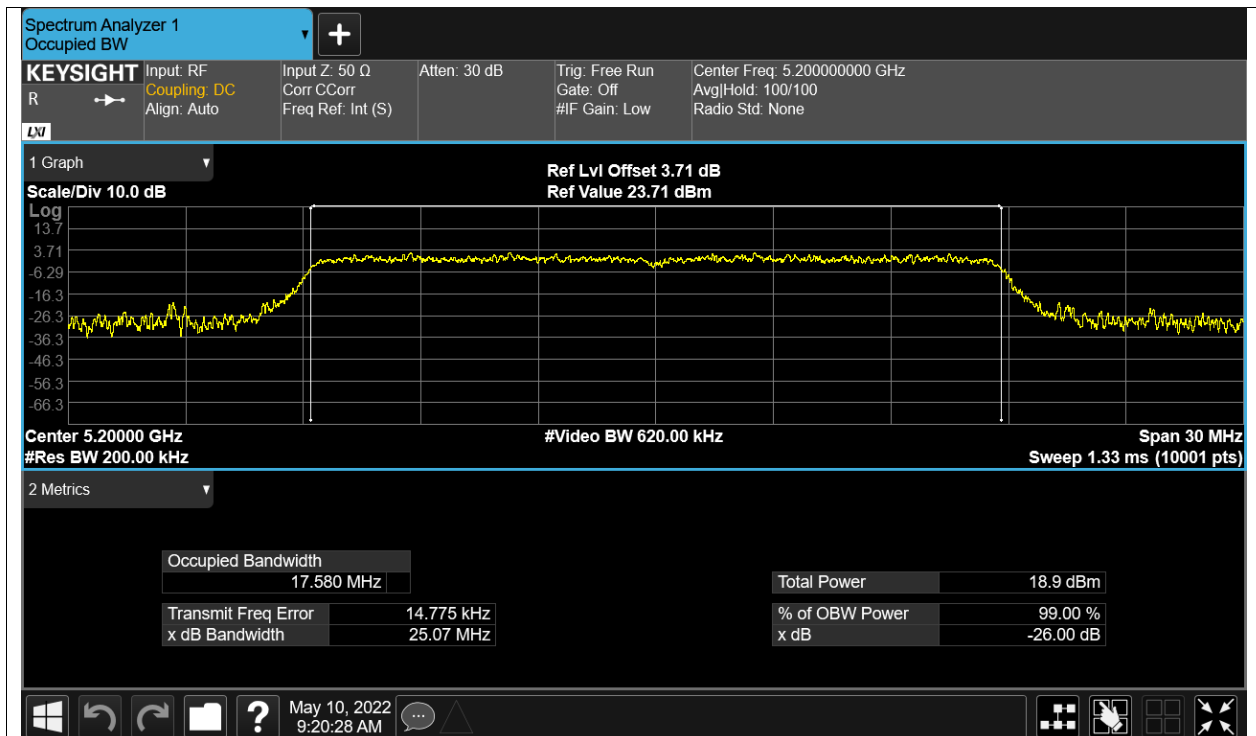
OBW NVNT ac80 5210MHz Ant1



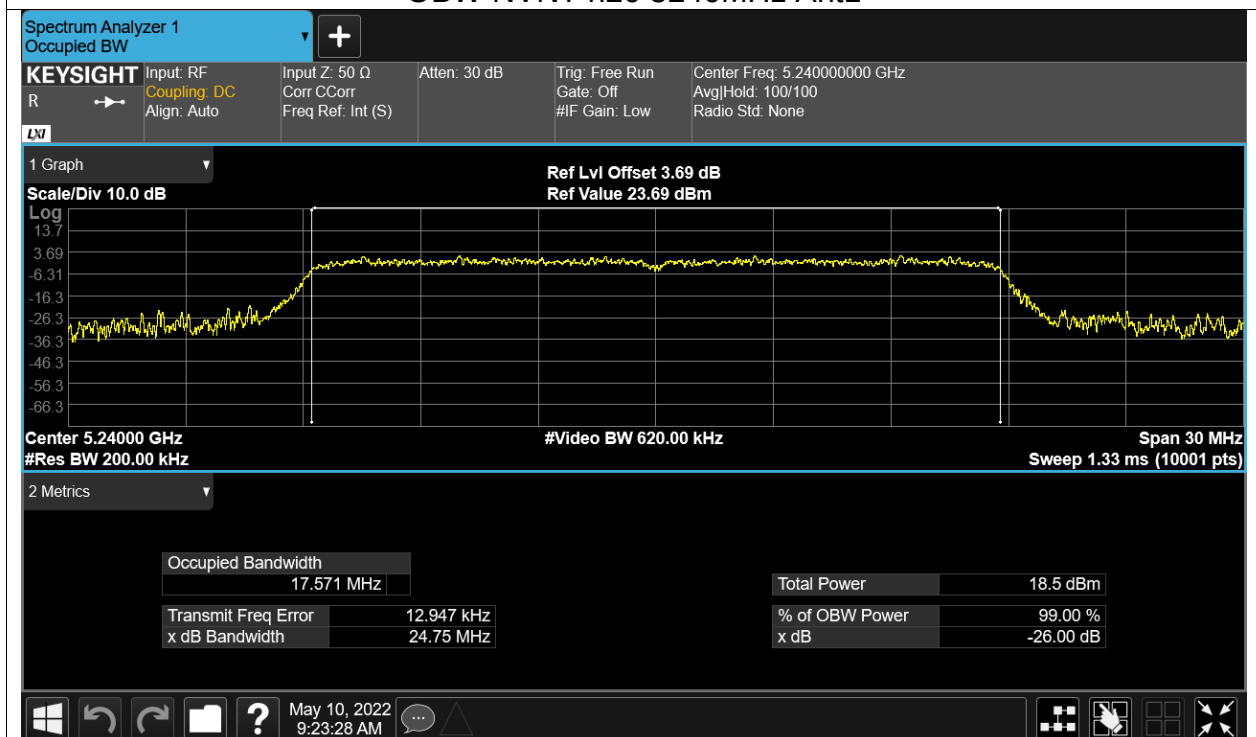
OBW NVNT n20 5180MHz Ant1



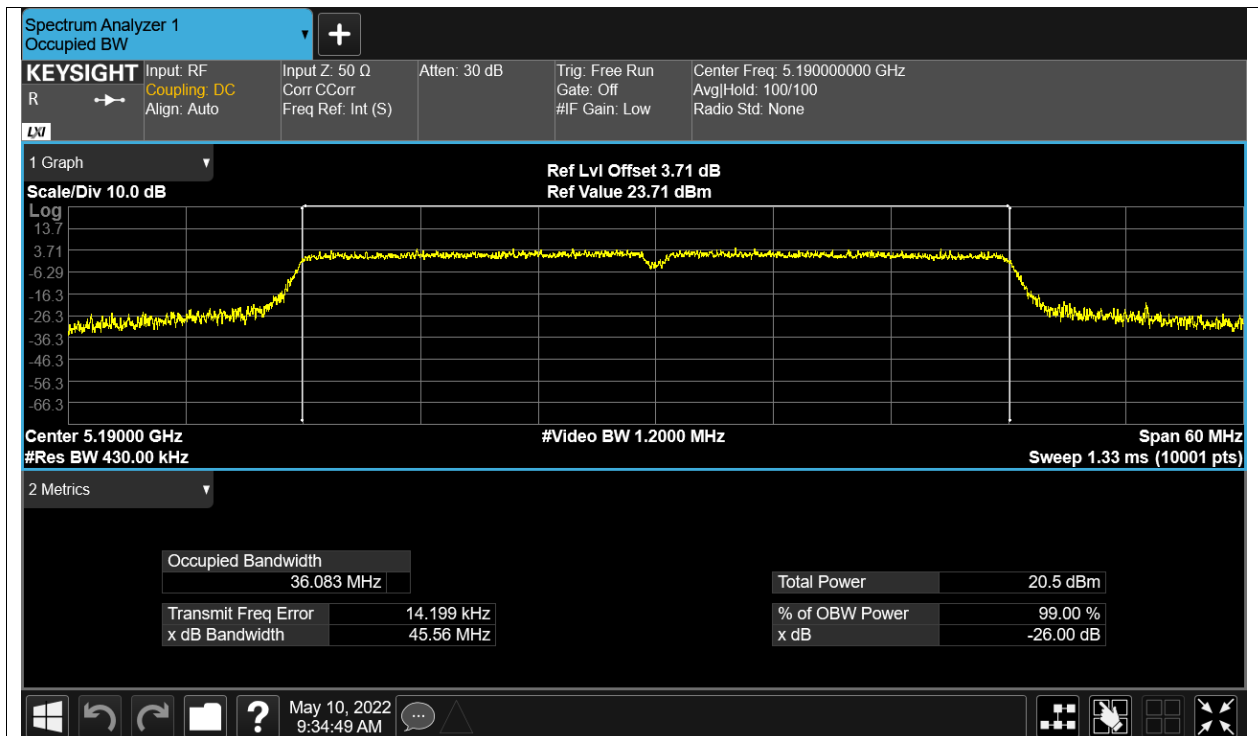
OBW NVNT n20 5200MHz Ant1



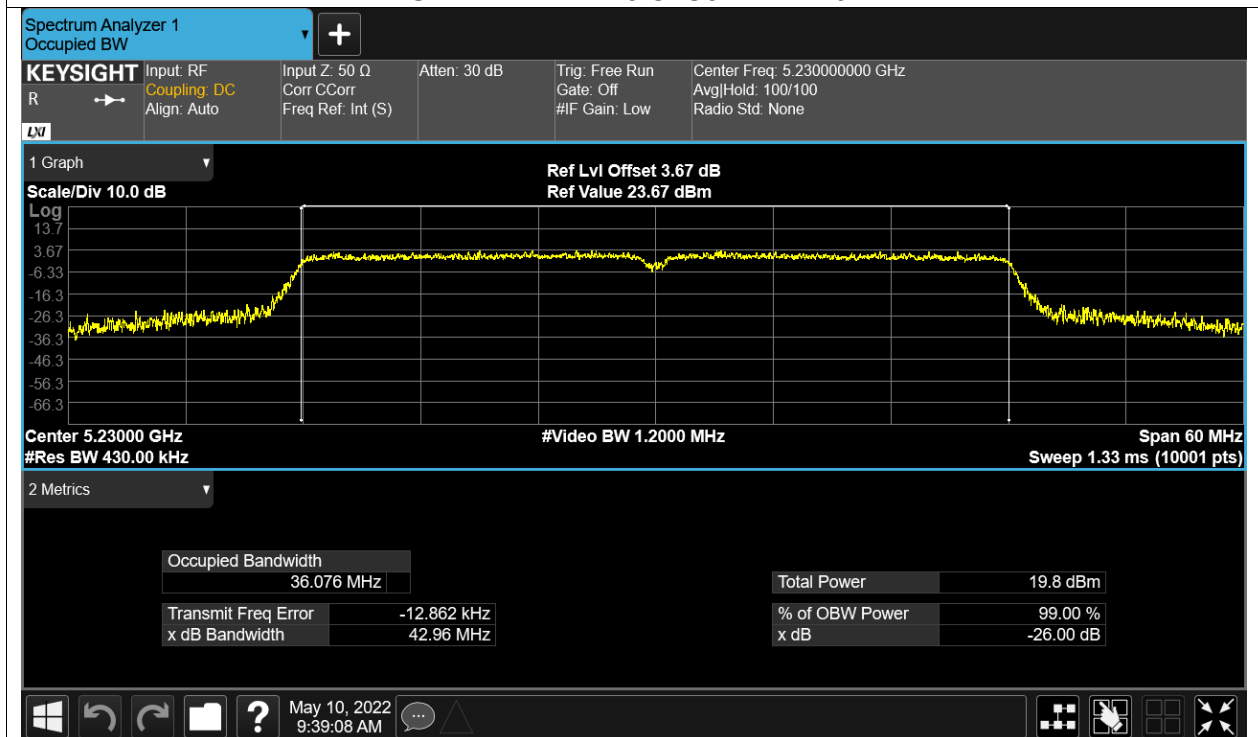
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

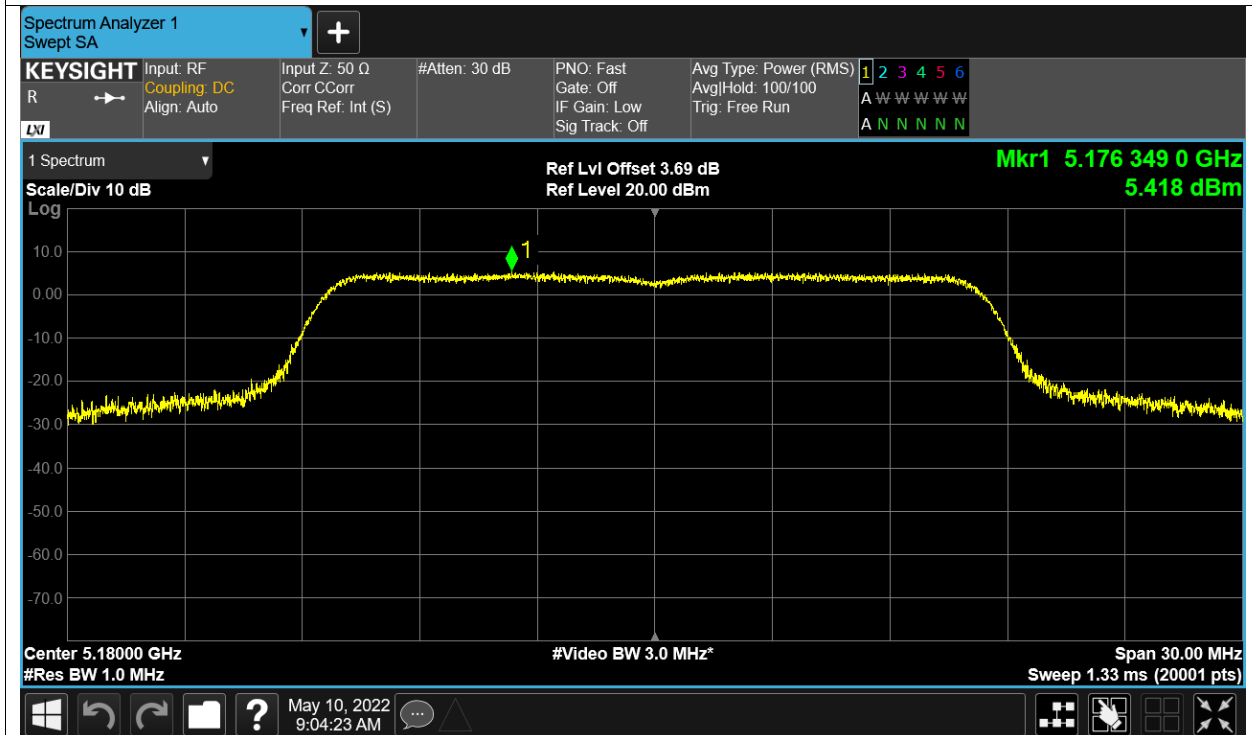


Maximum Power Spectral Density Level

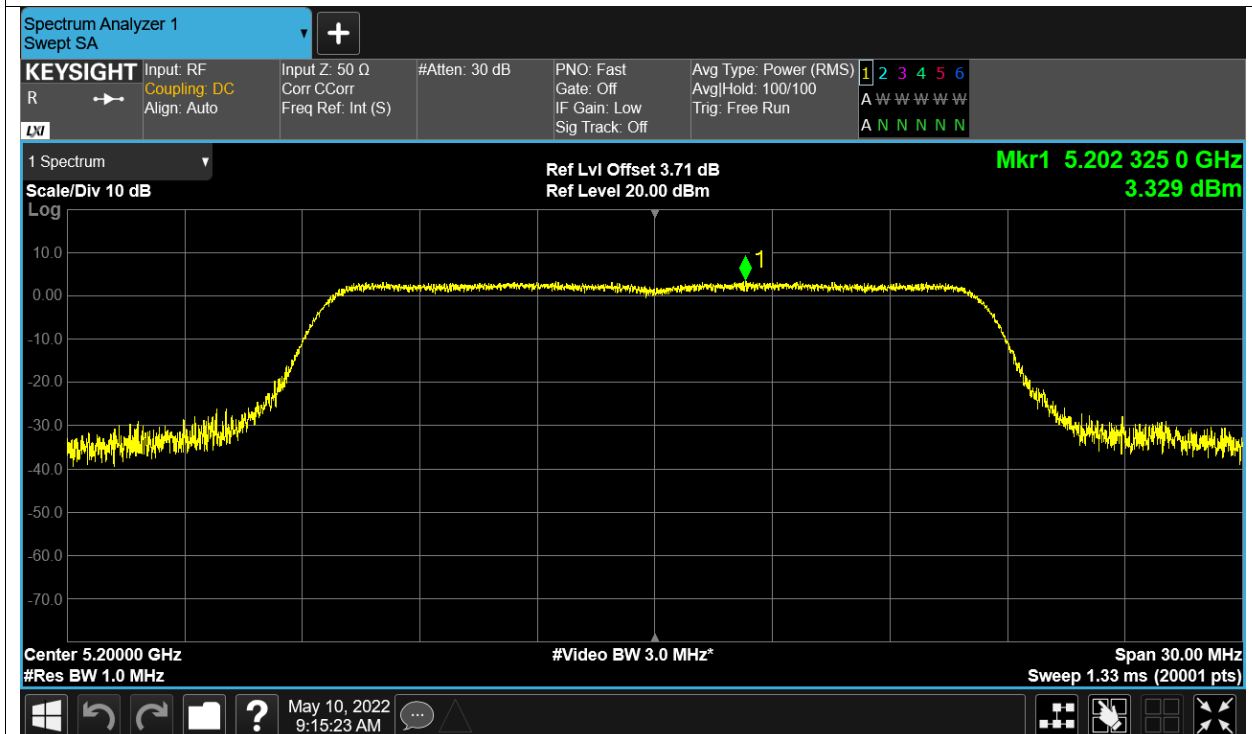
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.418	11	Pass
NVNT	a	5200	Ant1	3.329	11	Pass
NVNT	a	5240	Ant1	3.031	11	Pass
NVNT	ac20	5180	Ant1	4.221	11	Pass
NVNT	ac20	5200	Ant1	3.001	11	Pass
NVNT	ac20	5240	Ant1	2.512	11	Pass
NVNT	ac40	5190	Ant1	1.232	11	Pass
NVNT	ac40	5230	Ant1	0.334	11	Pass
NVNT	ac80	5210	Ant1	-3.244	11	Pass
NVNT	n20	5180	Ant1	3.376	11	Pass
NVNT	n20	5200	Ant1	2.162	11	Pass
NVNT	n20	5240	Ant1	2.403	11	Pass
NVNT	n40	5190	Ant1	1.09	11	Pass
NVNT	n40	5230	Ant1	0.015	11	Pass

Test Graphs

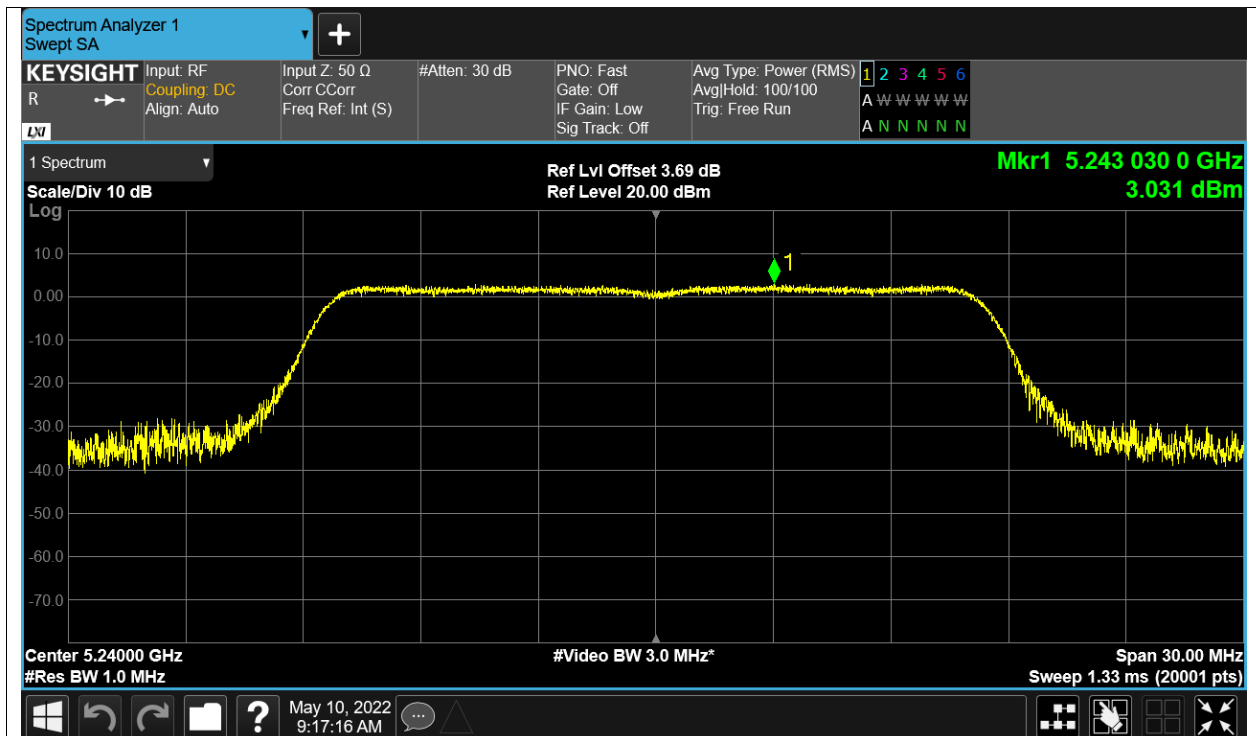
PSD NVNT a 5180MHz Ant1



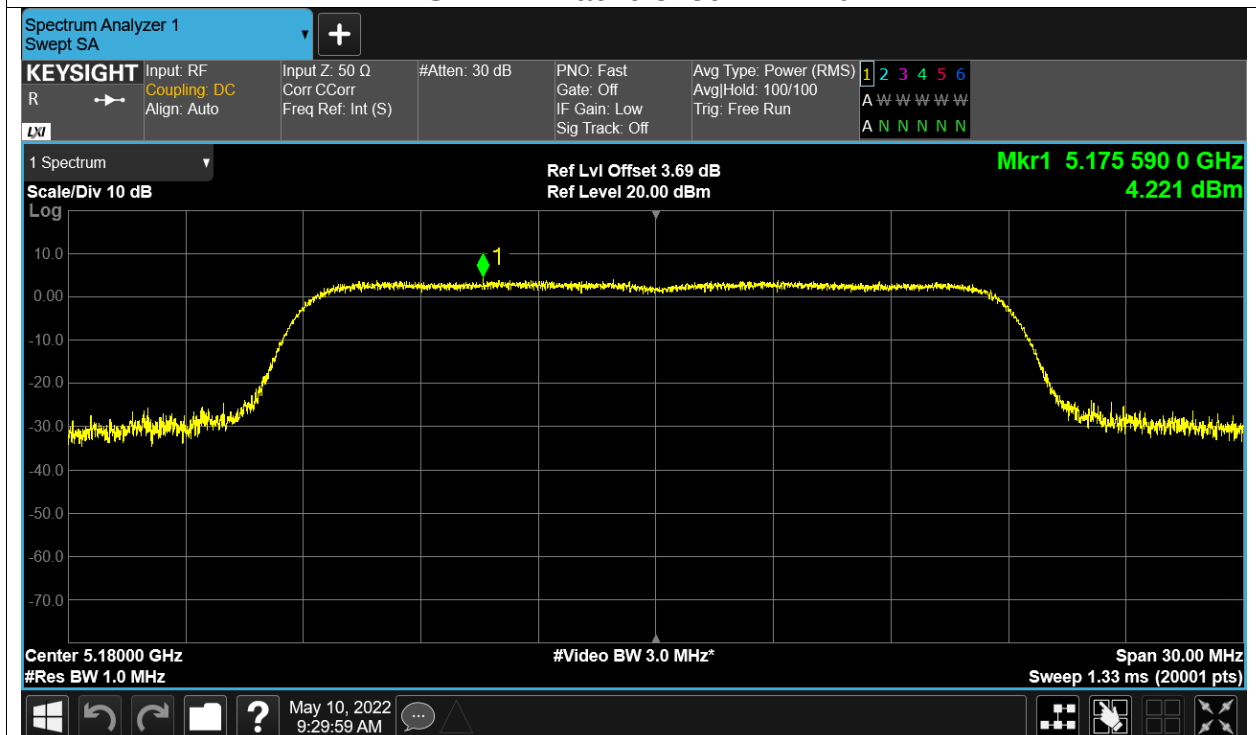
PSD NVNT a 5200MHz Ant1



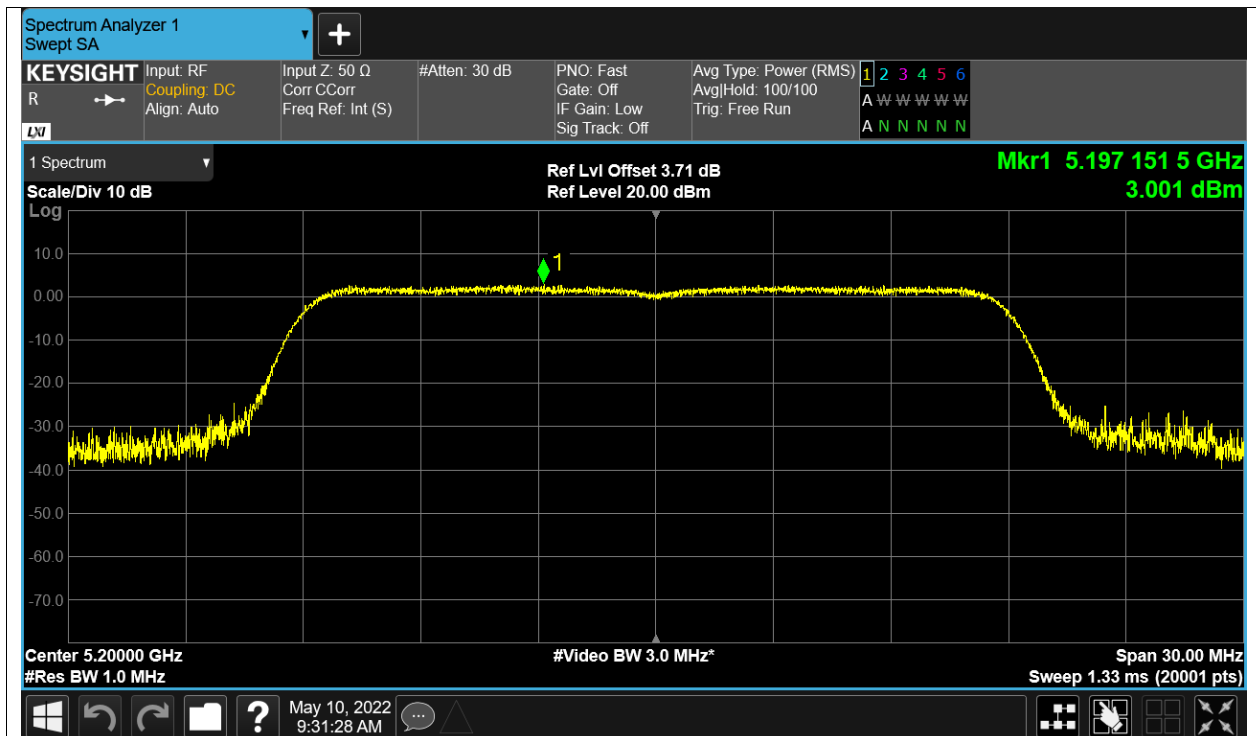
PSD NVNT a 5240MHz Ant1



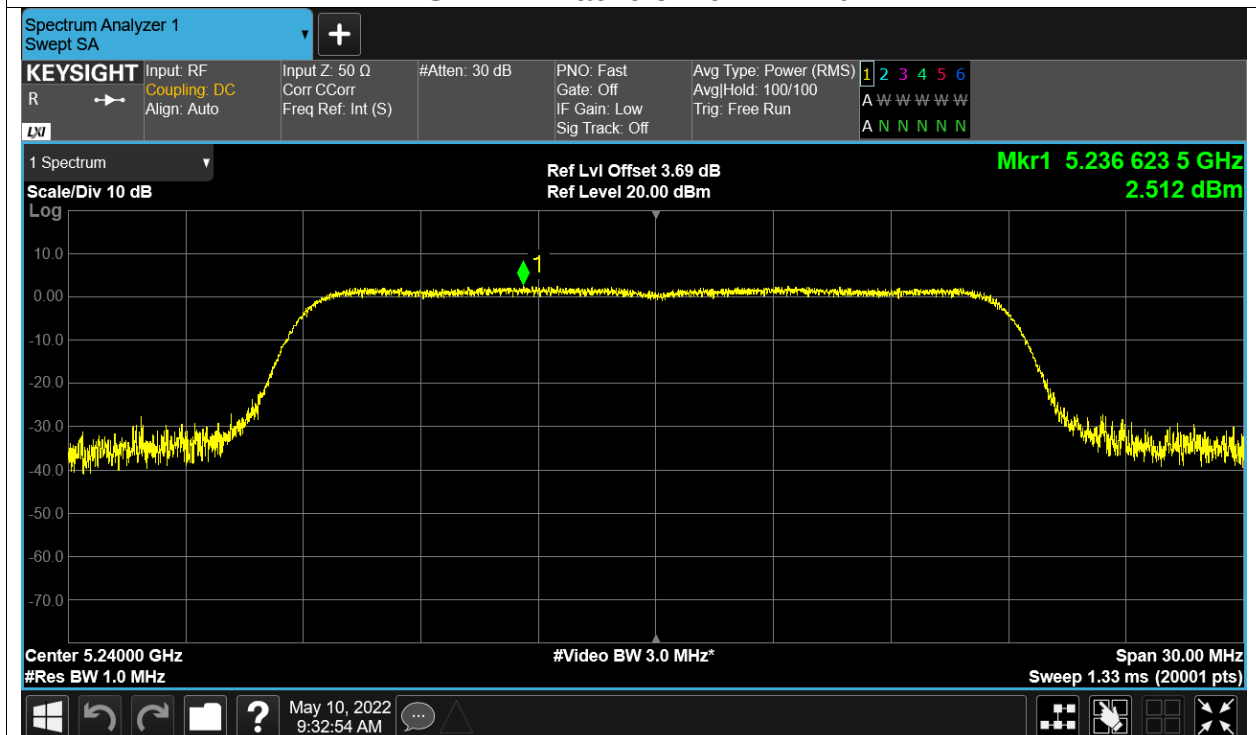
PSD NVNT ac20 5180MHz Ant1



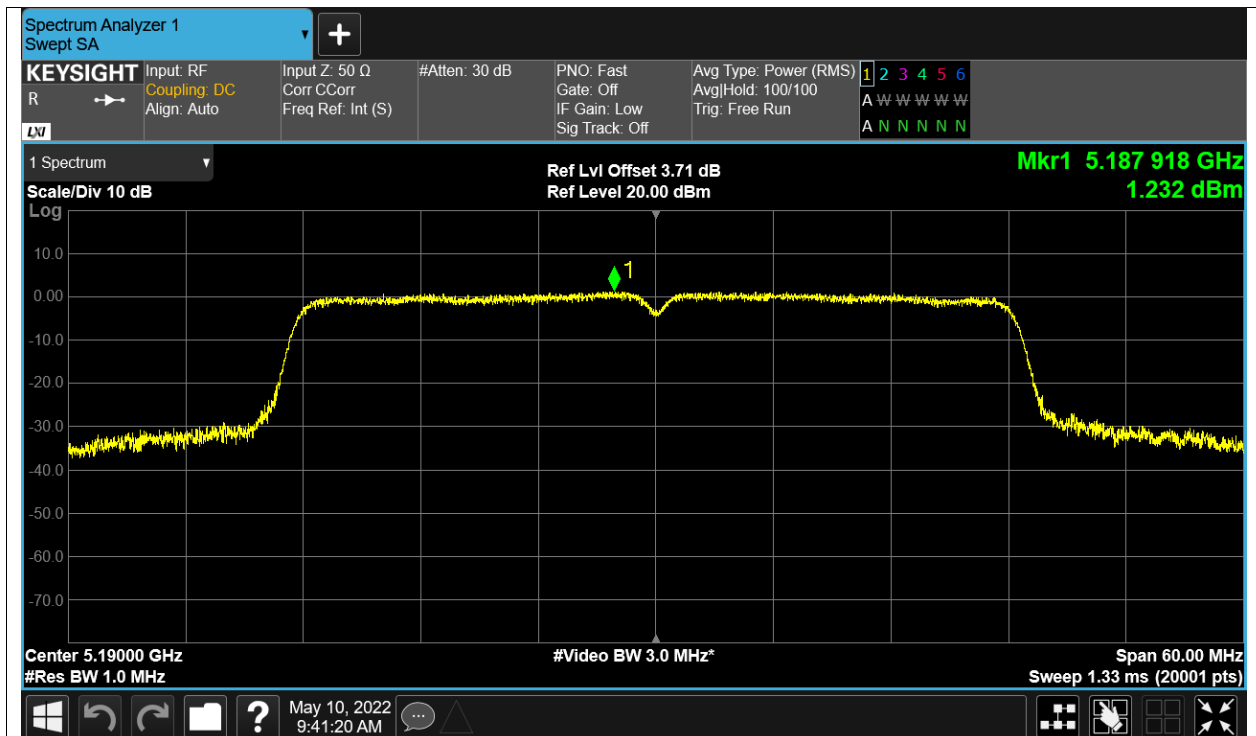
PSD NVNT ac20 5200MHz Ant1



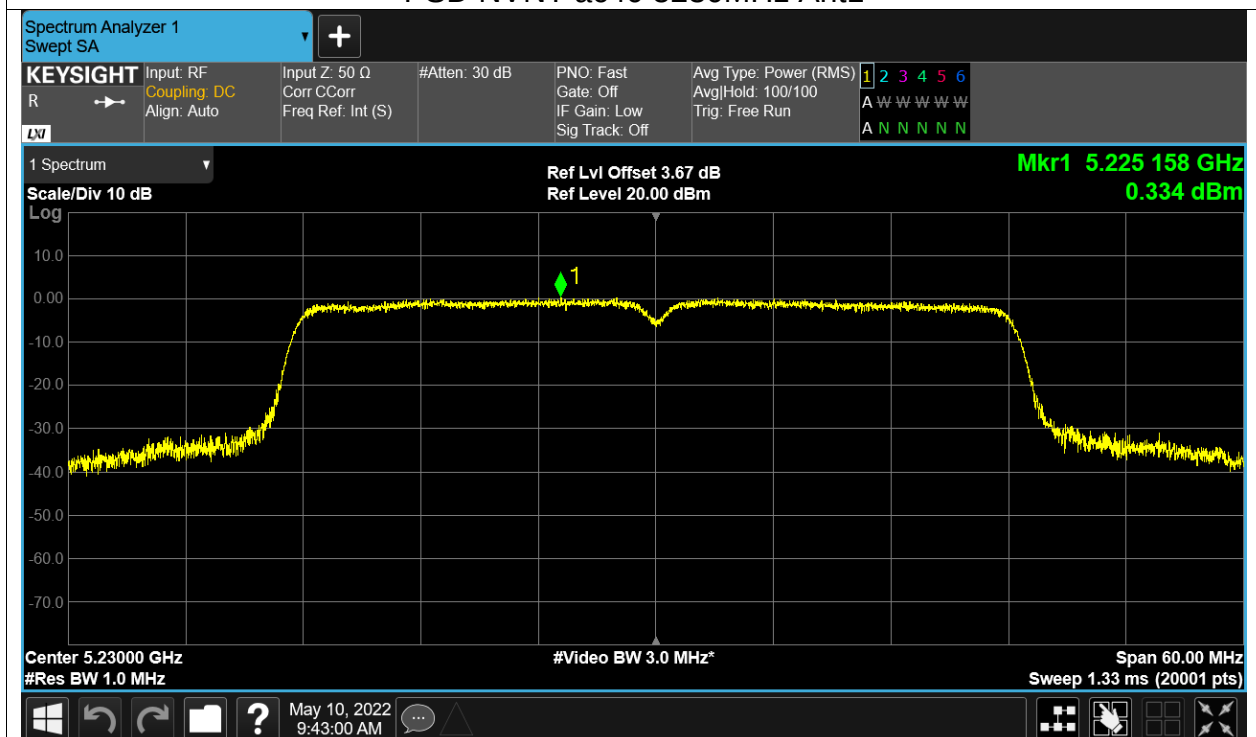
PSD NVNT ac20 5240MHz Ant1



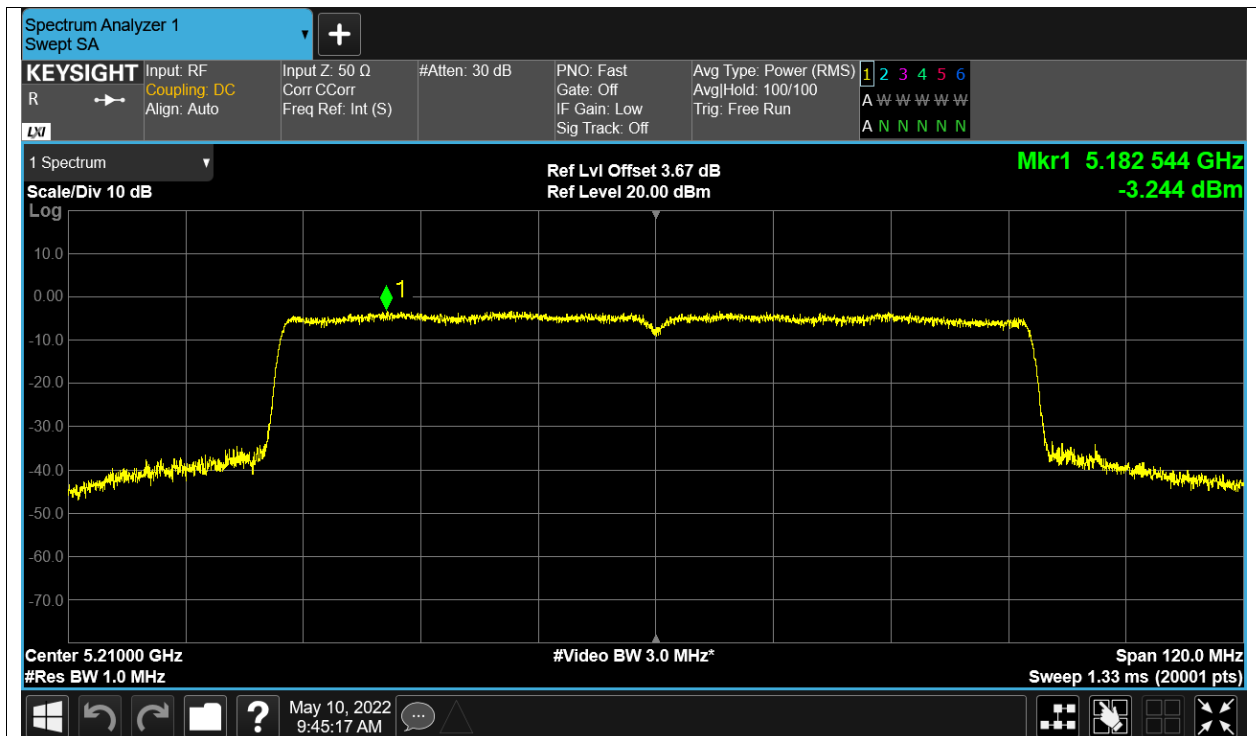
PSD NVNT ac40 5190MHz Ant1



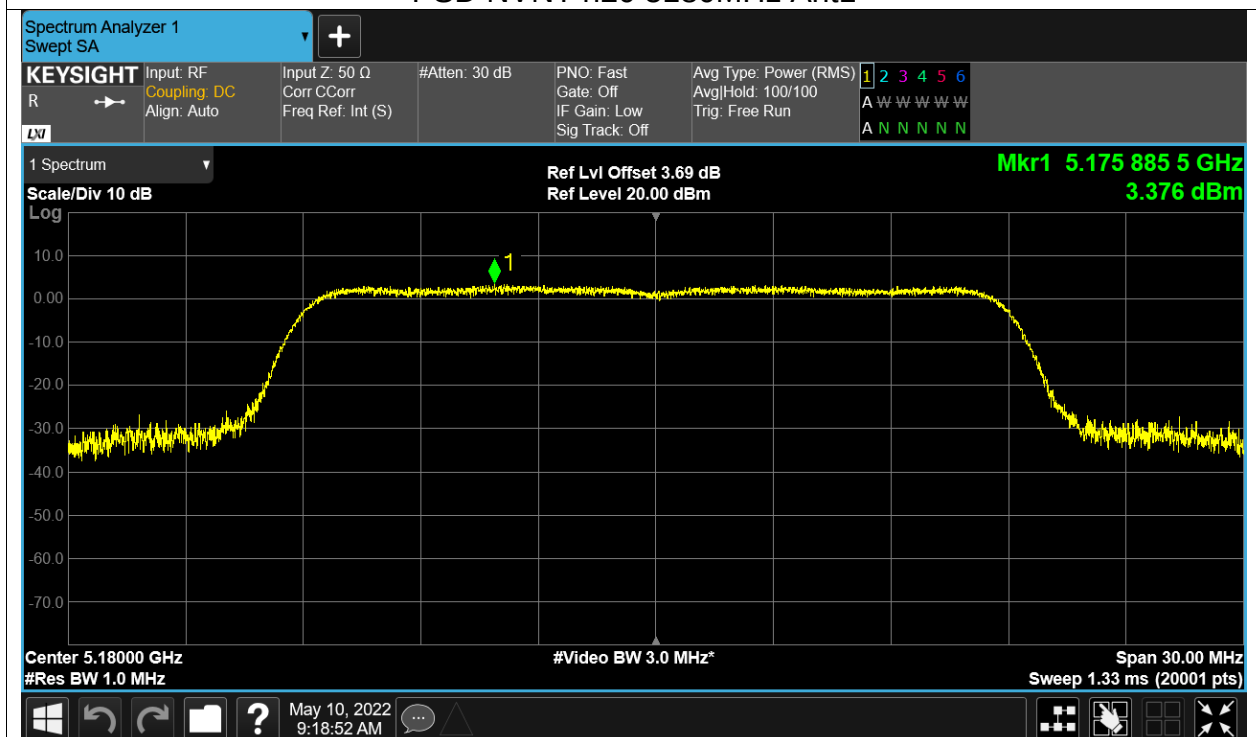
PSD NVNT ac40 5230MHz Ant1



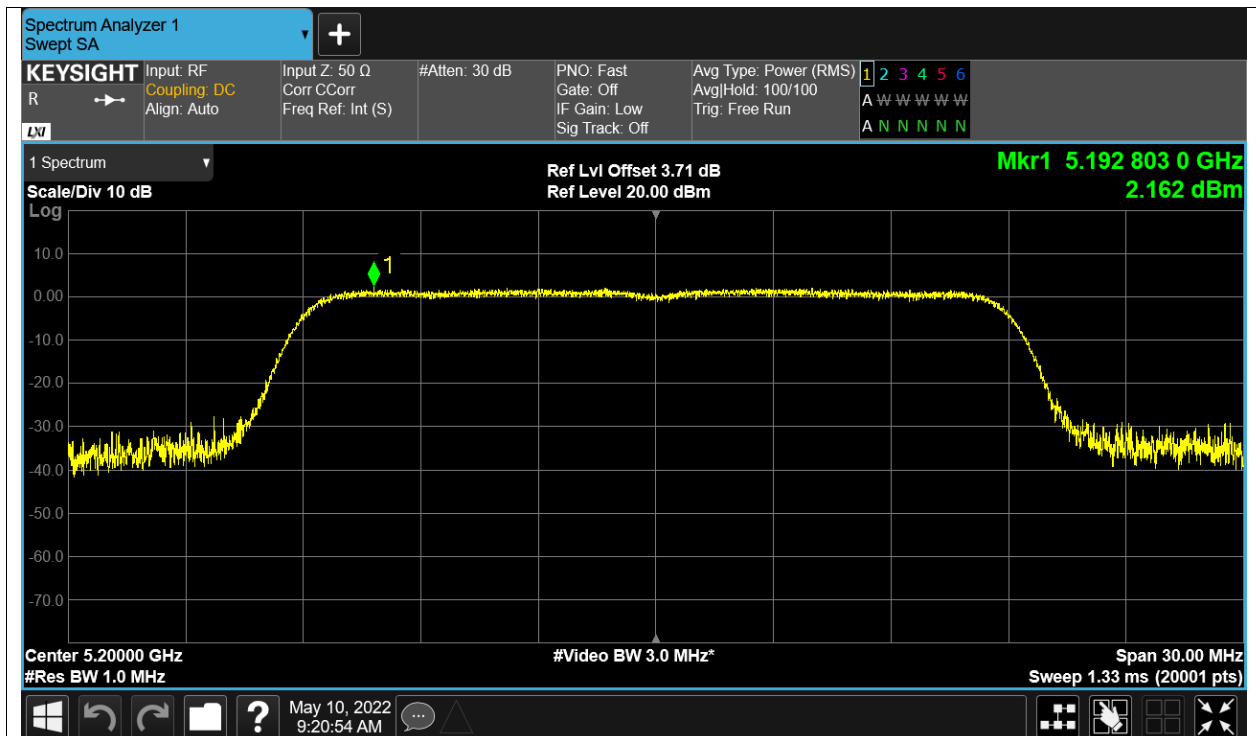
PSD NVNT ac80 5210MHz Ant1



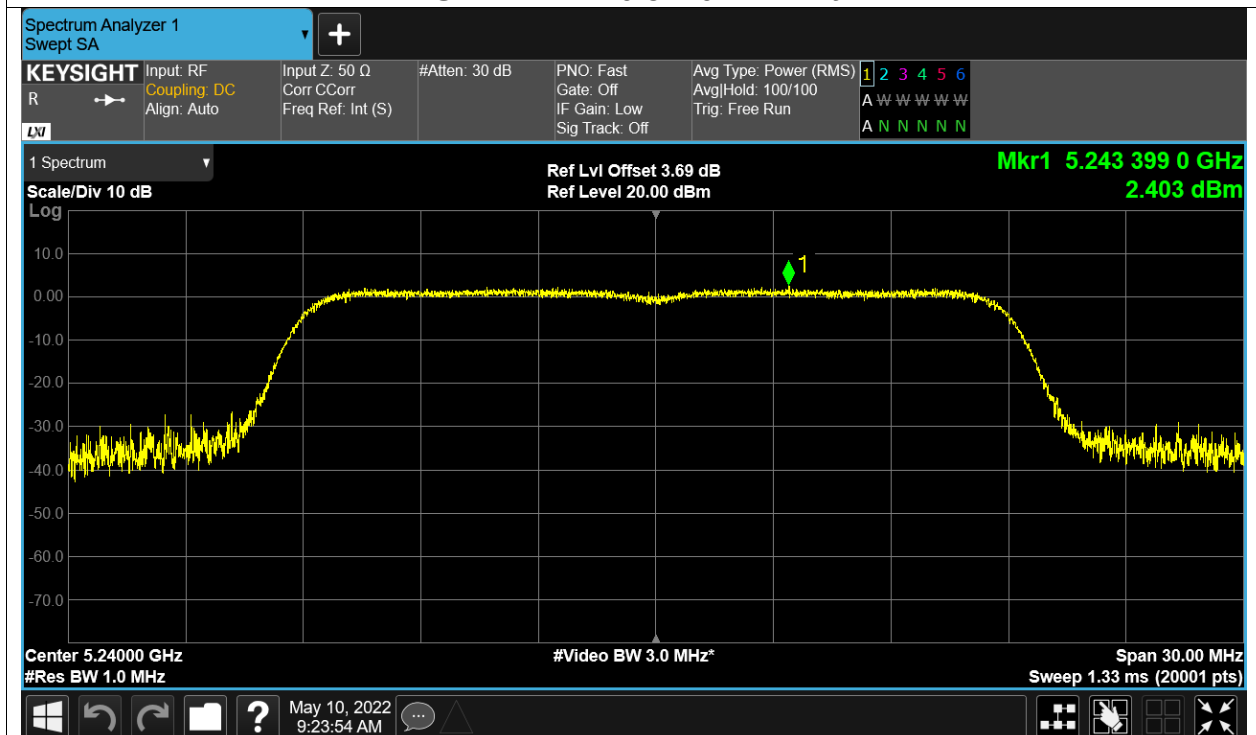
PSD NVNT n20 5180MHz Ant1



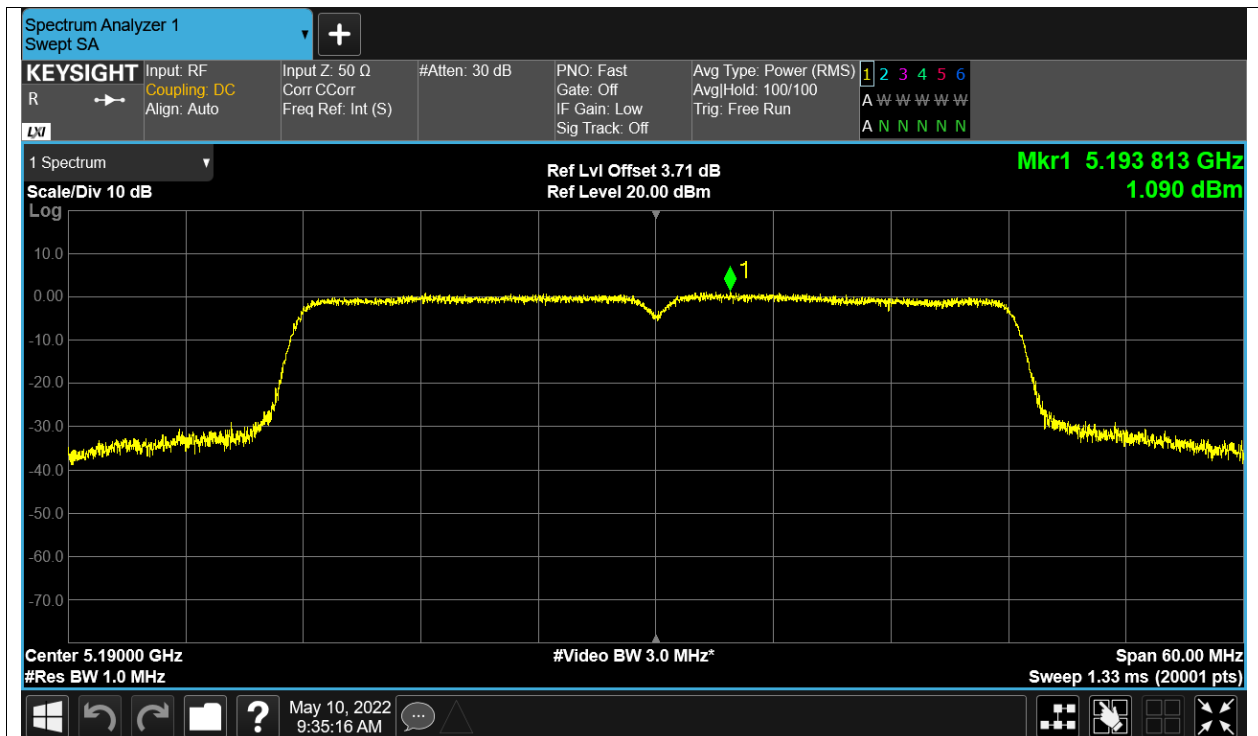
PSD NVNT n20 5200MHz Ant1



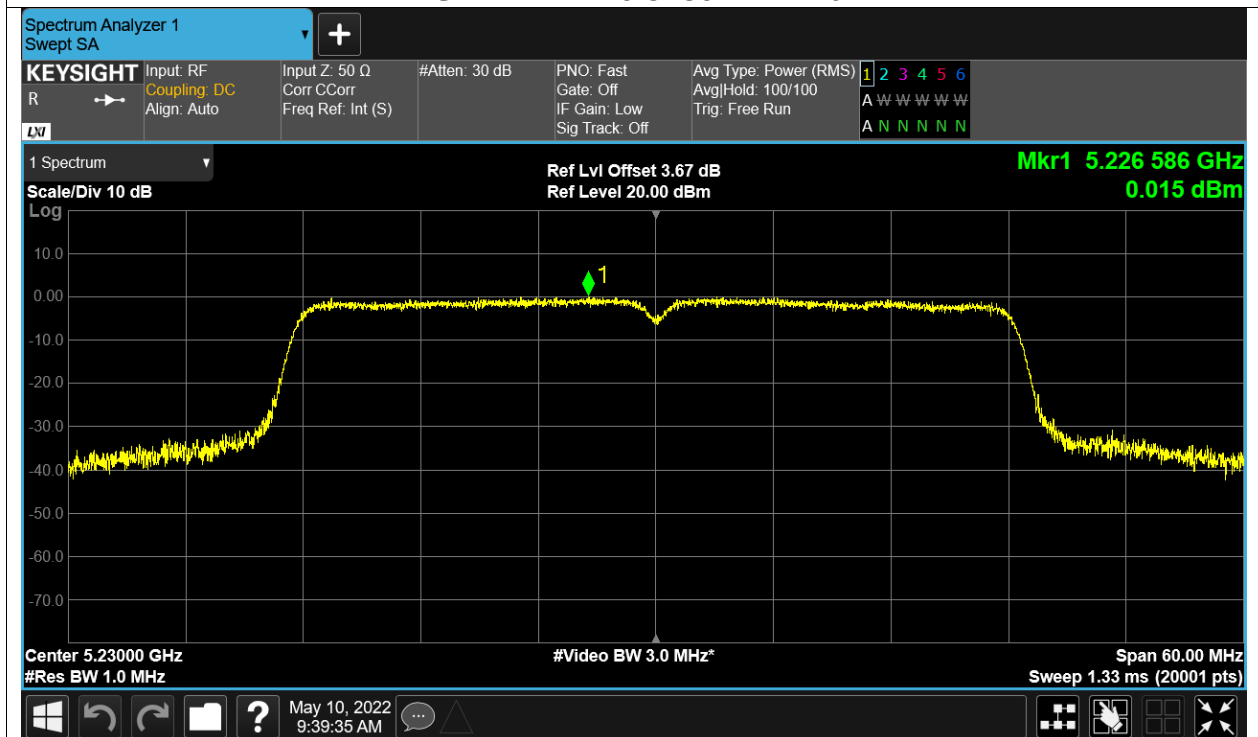
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



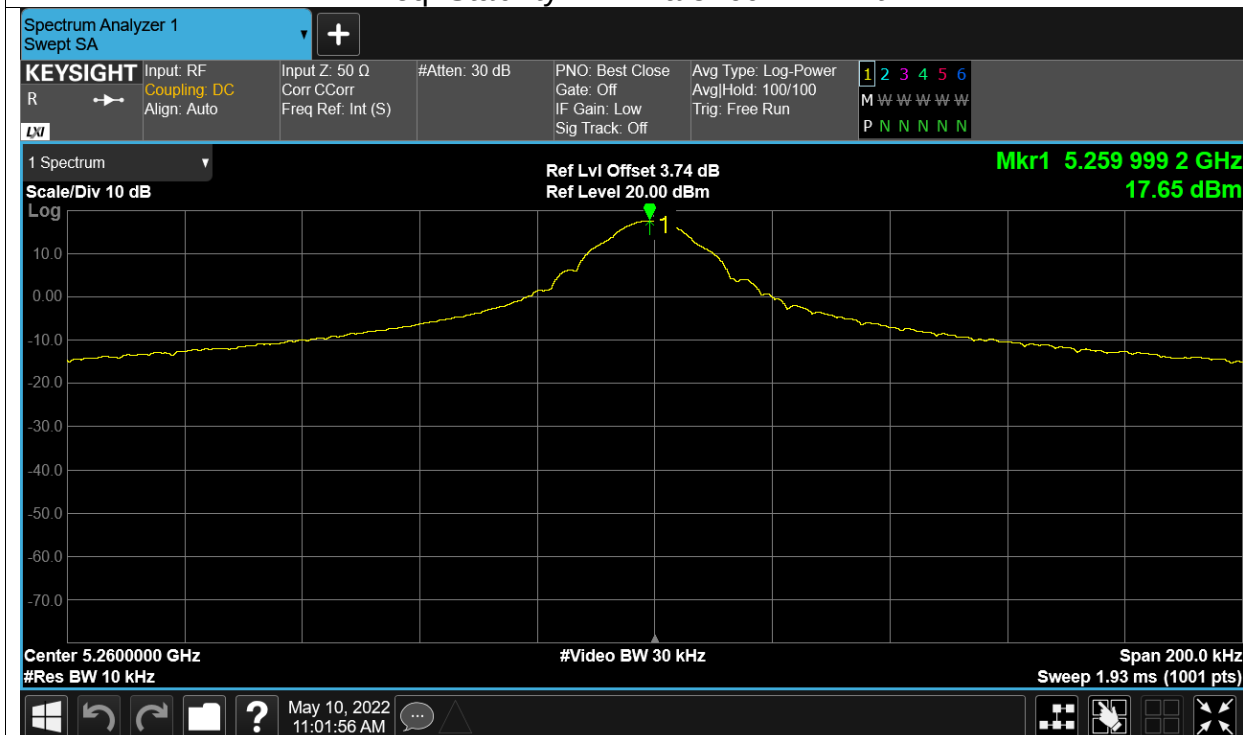
Appendix A – 5.3G Wi-Fi

Frequency Stability

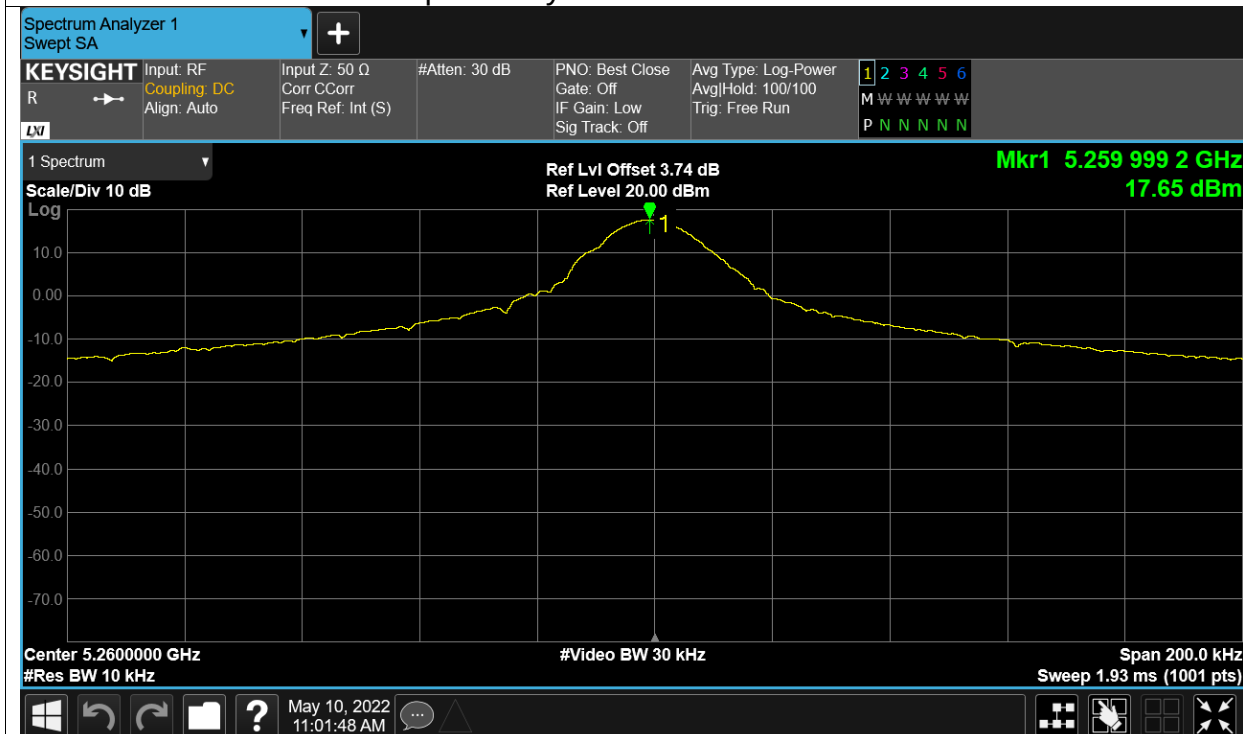
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant1	5259.9992	-0.15	Within authorized band	Pass
LVNT	a	5260	Ant1	5259.9992	-0.15		Pass
NVHT	a	5260	Ant1	5259.9992	-0.15		Pass
NVLT	a	5260	Ant1	5259.999	-0.19		Pass
NVNT	a	5260	Ant1	5259.9992	-0.15		Pass
HVNT	ac80	5290	Ant1	5289.9994	-0.11		Pass
LVNT	ac80	5290	Ant1	5289.9994	-0.11		Pass
NVHT	ac80	5290	Ant1	5289.9994	-0.11		Pass
NVLT	ac80	5290	Ant1	5289.9992	-0.15		Pass
NVNT	ac80	5290	Ant1	5289.9992	-0.15		Pass
HVNT	n40	5270	Ant1	5269.9994	-0.11		Pass
LVNT	n40	5270	Ant1	5269.9994	-0.11		Pass
NVHT	n40	5270	Ant1	5269.9994	-0.11		Pass
NVLT	n40	5270	Ant1	5269.9994	-0.11		Pass
NVNT	n40	5270	Ant1	5269.9992	-0.15		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs

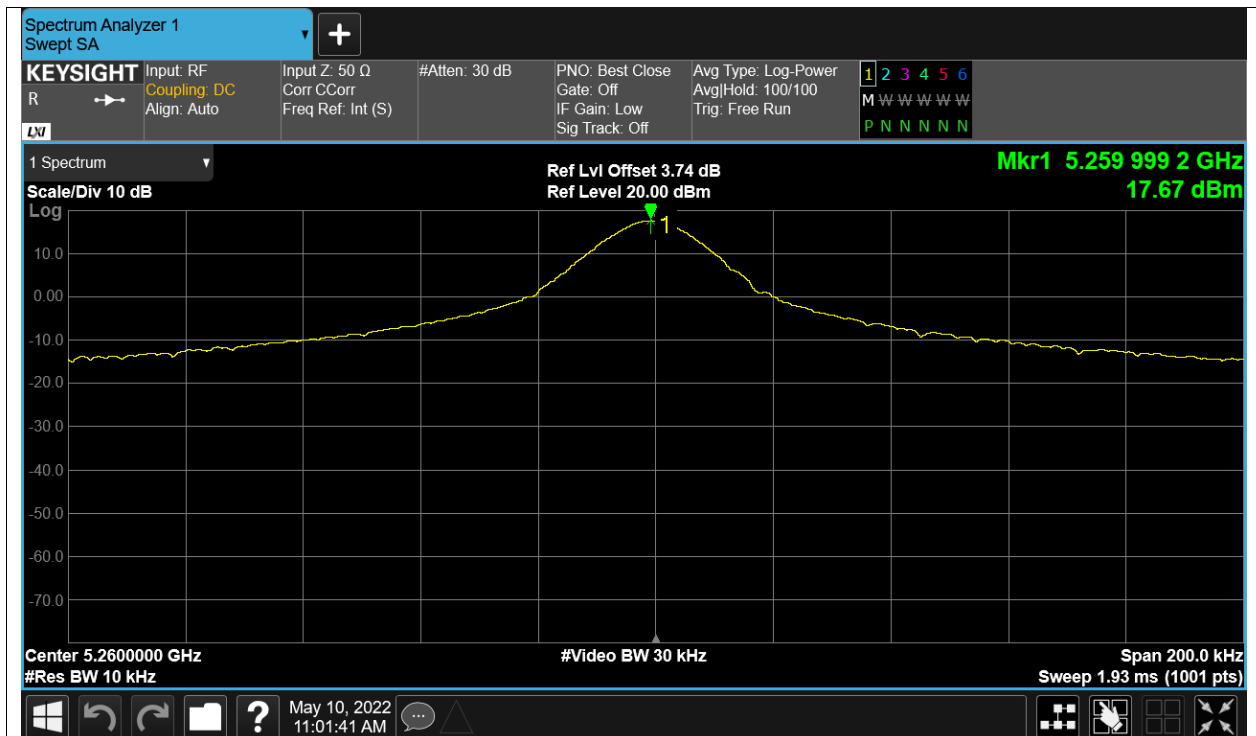
Freq. Stability HVNT a 5260MHz Ant1



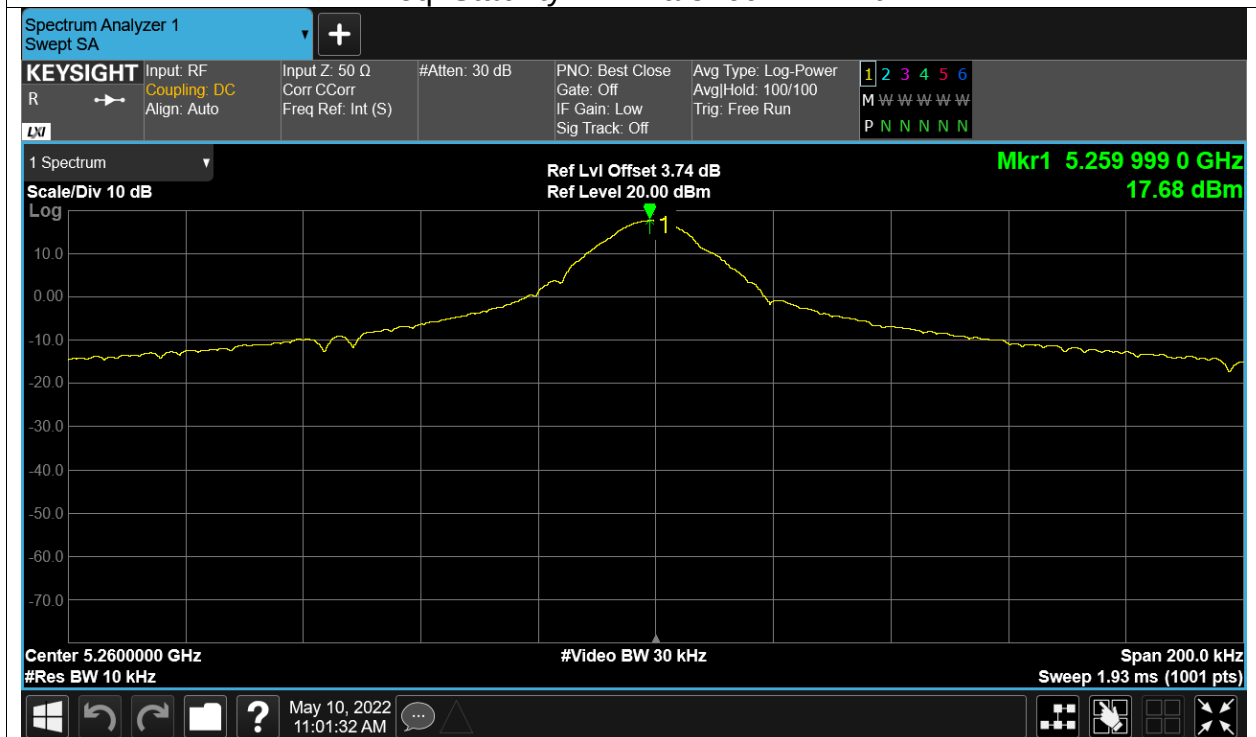
Freq. Stability LVNT a 5260MHz Ant1



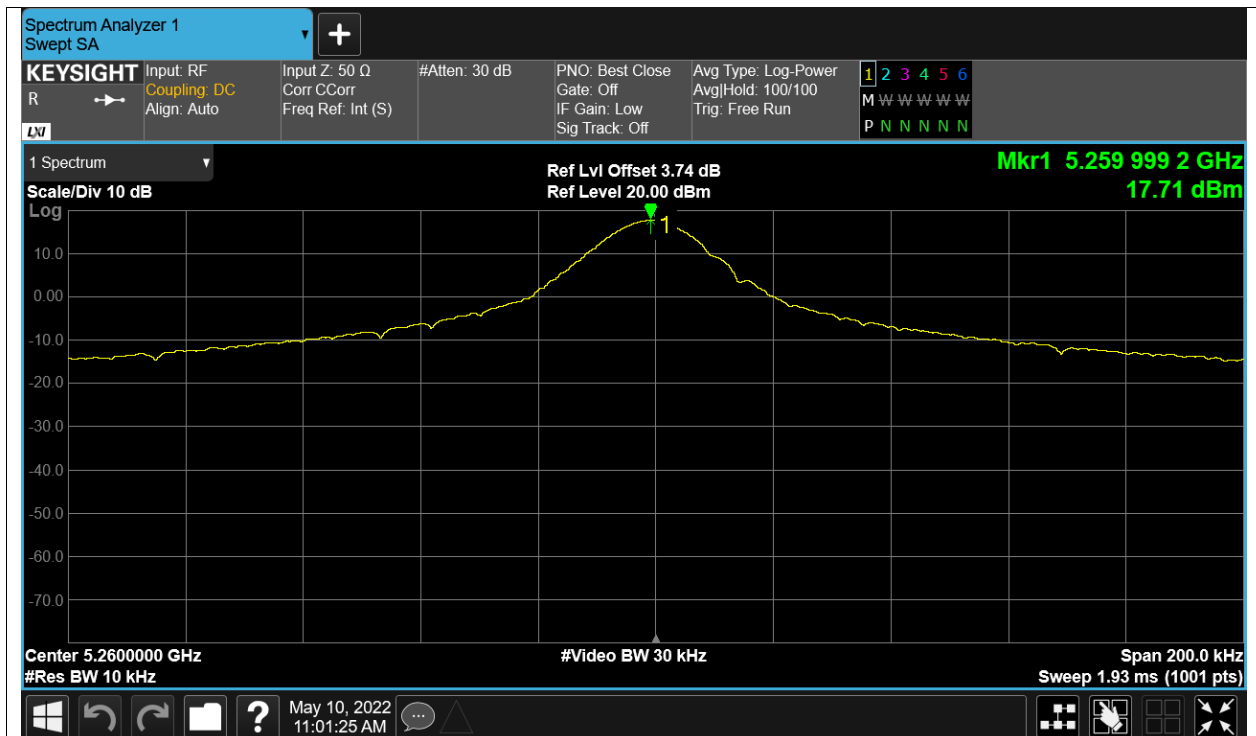
Freq. Stability NVHT a 5260MHz Ant1



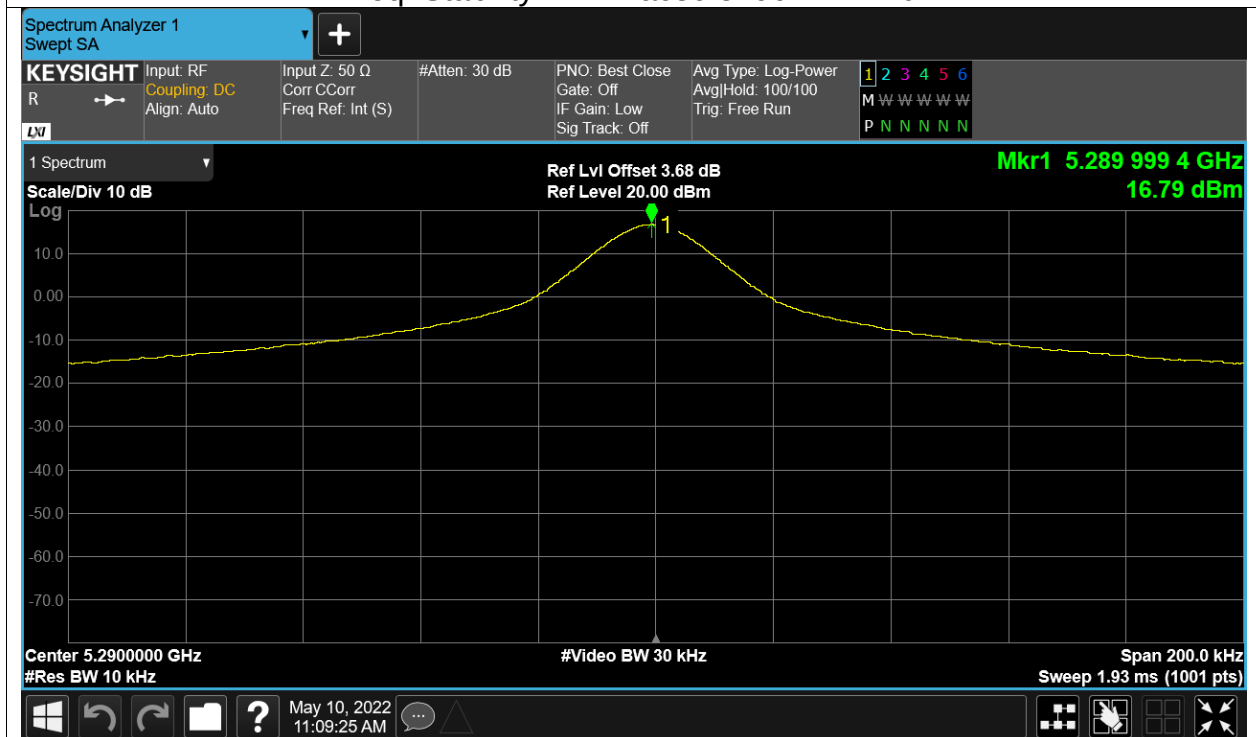
Freq. Stability NVLT a 5260MHz Ant1



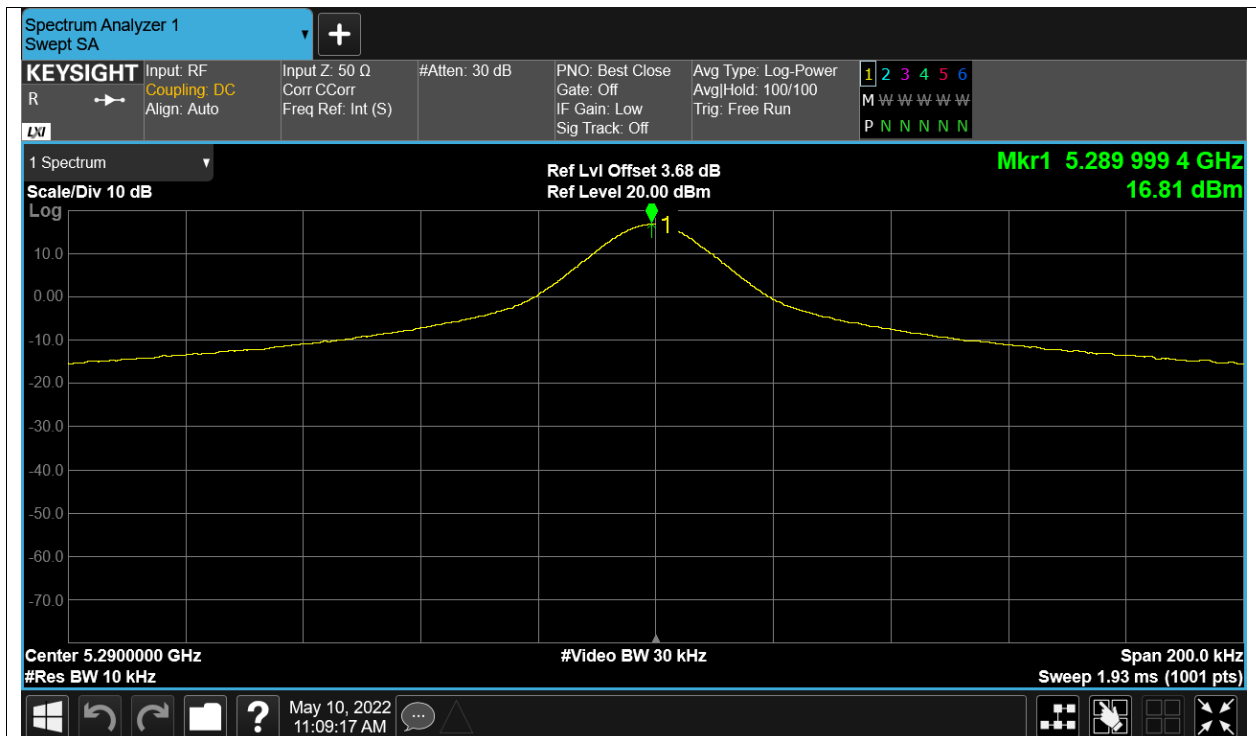
Freq. Stability NVNT a 5260MHz Ant1



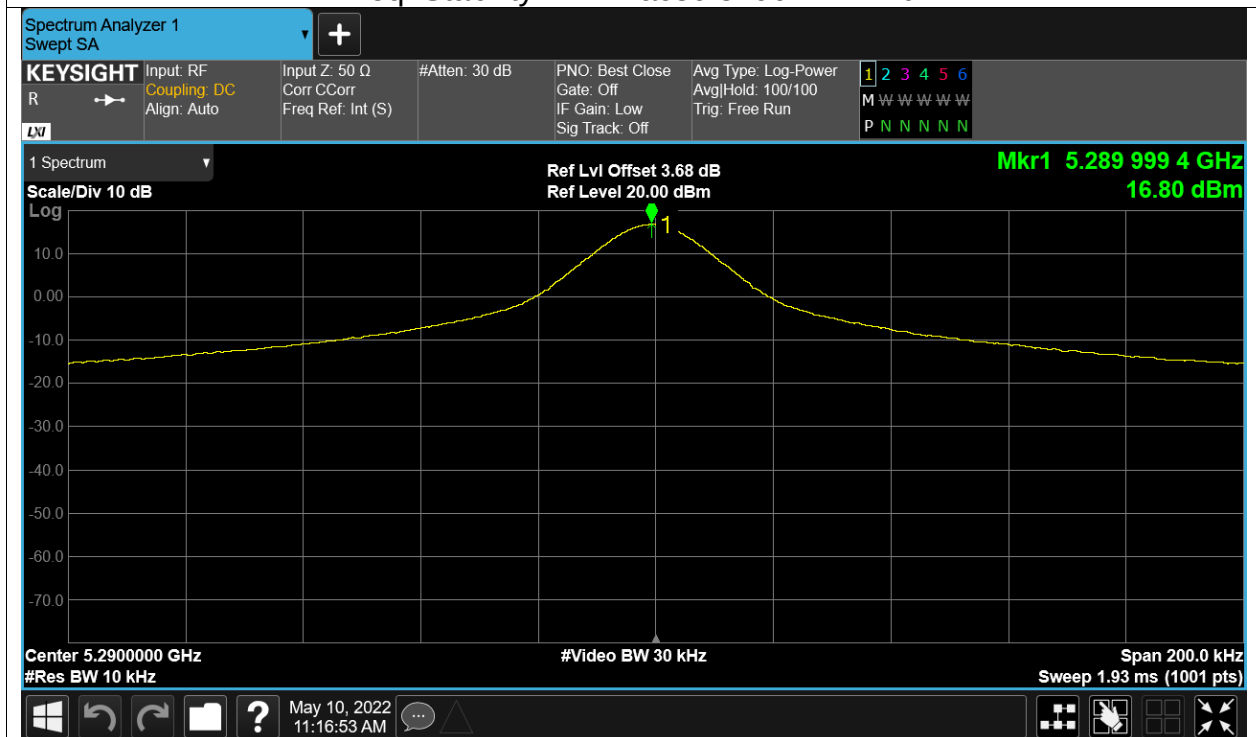
Freq. Stability HVNT ac80 5290MHz Ant1



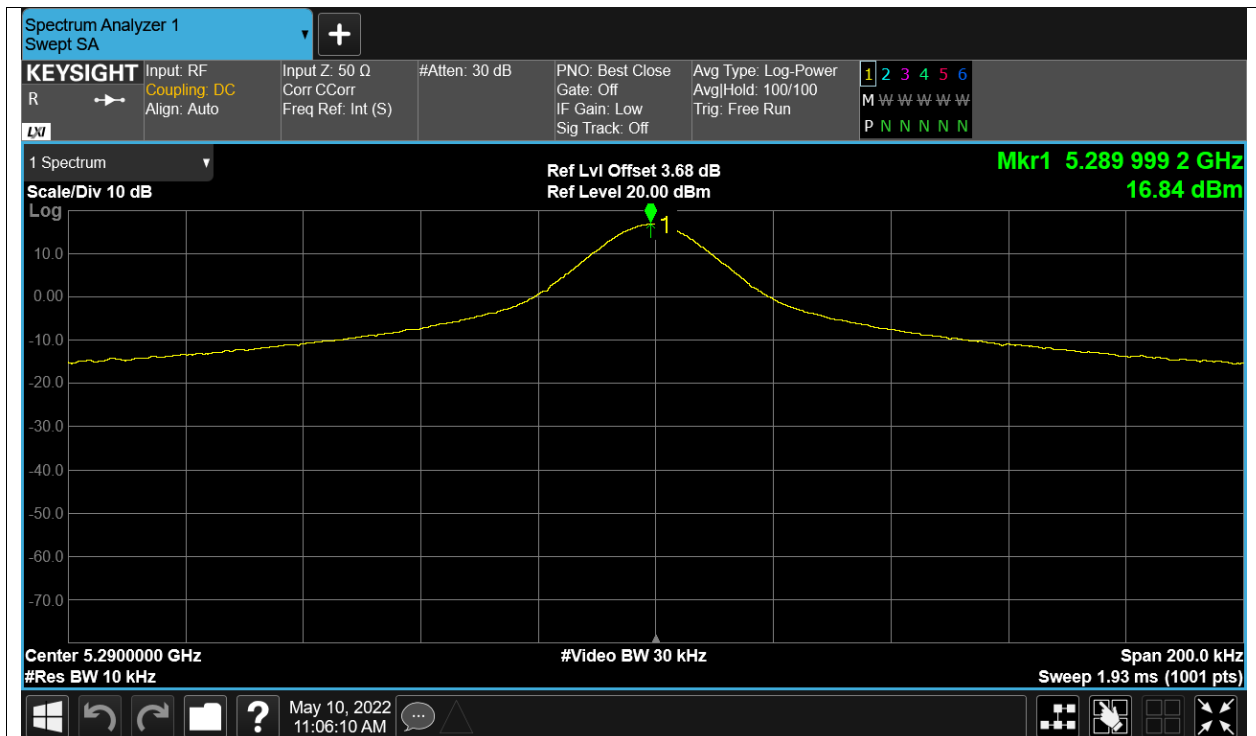
Freq. Stability LVNT ac80 5290MHz Ant1



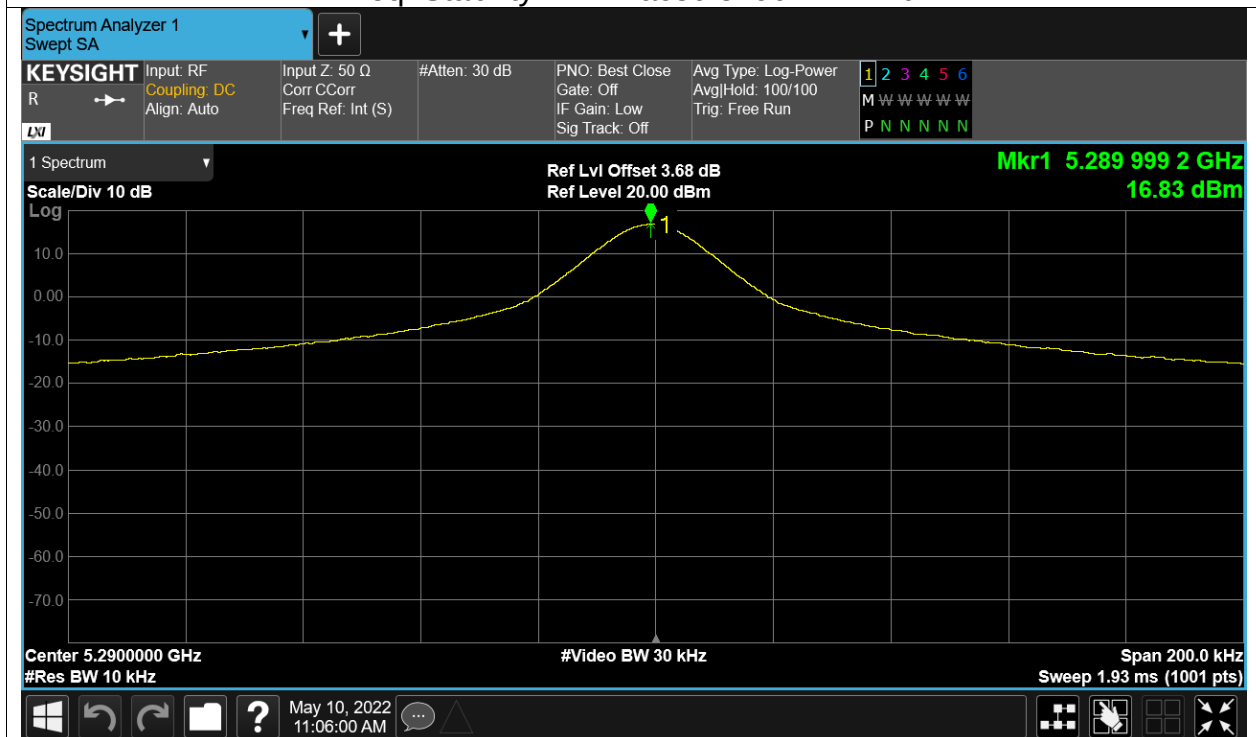
Freq. Stability NVHT ac80 5290MHz Ant1



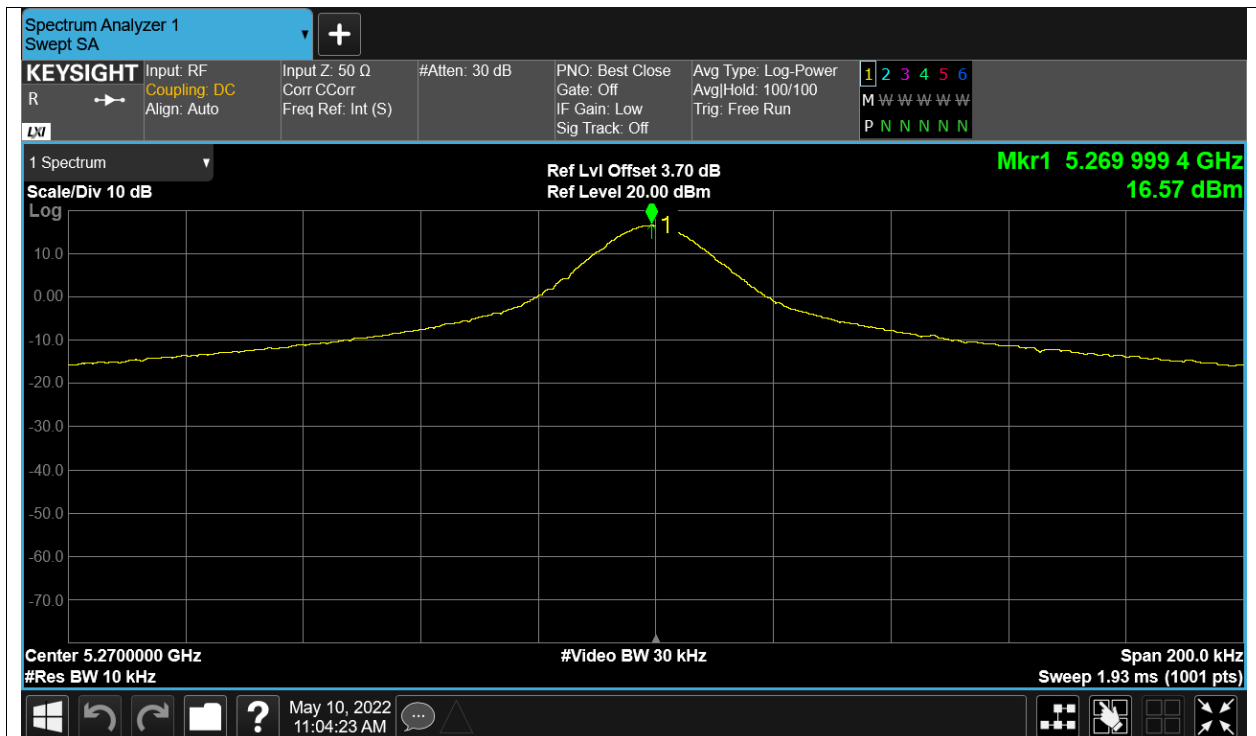
Freq. Stability NVLT ac80 5290MHz Ant1



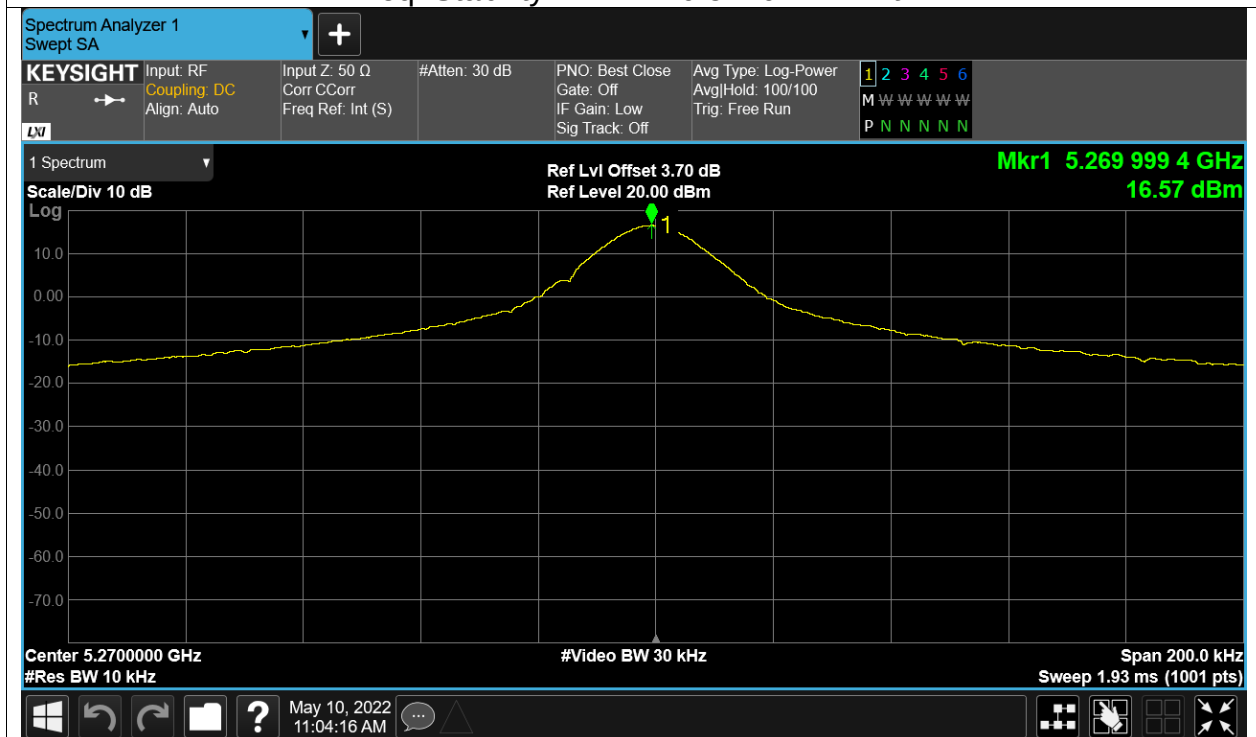
Freq. Stability NVNT ac80 5290MHz Ant1



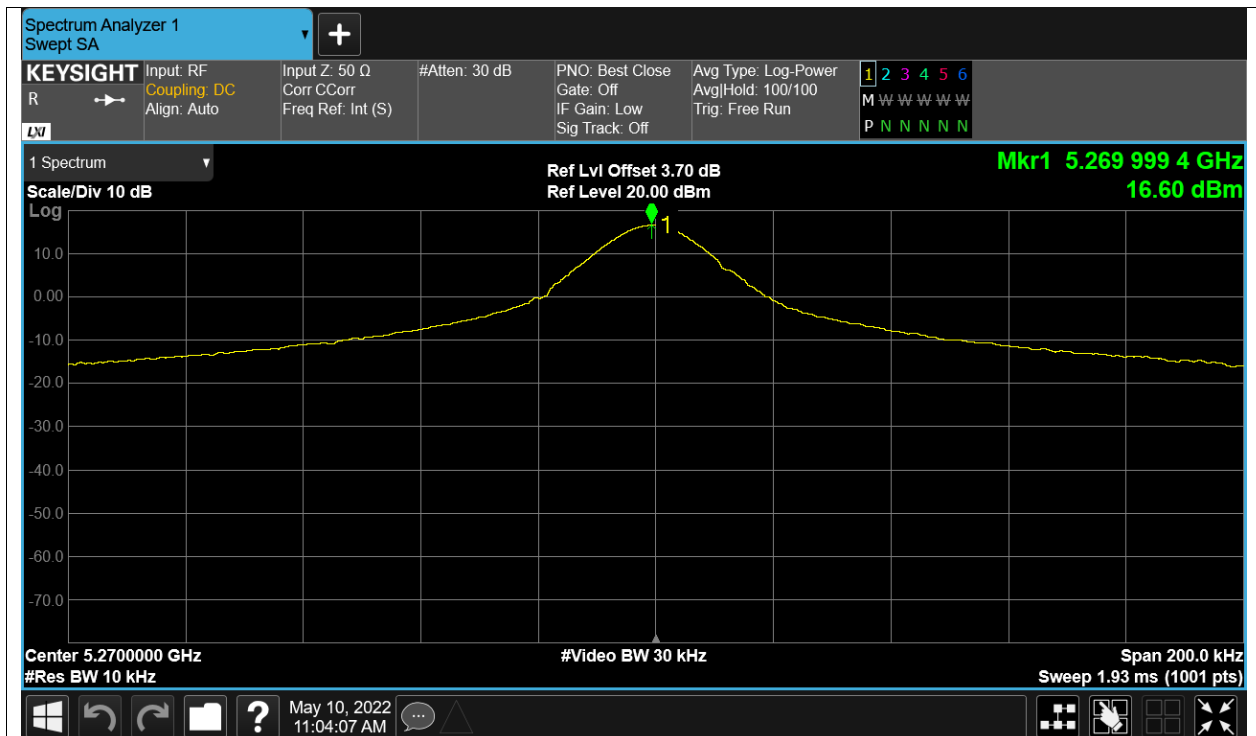
Freq. Stability HVNT n40 5270MHz Ant1



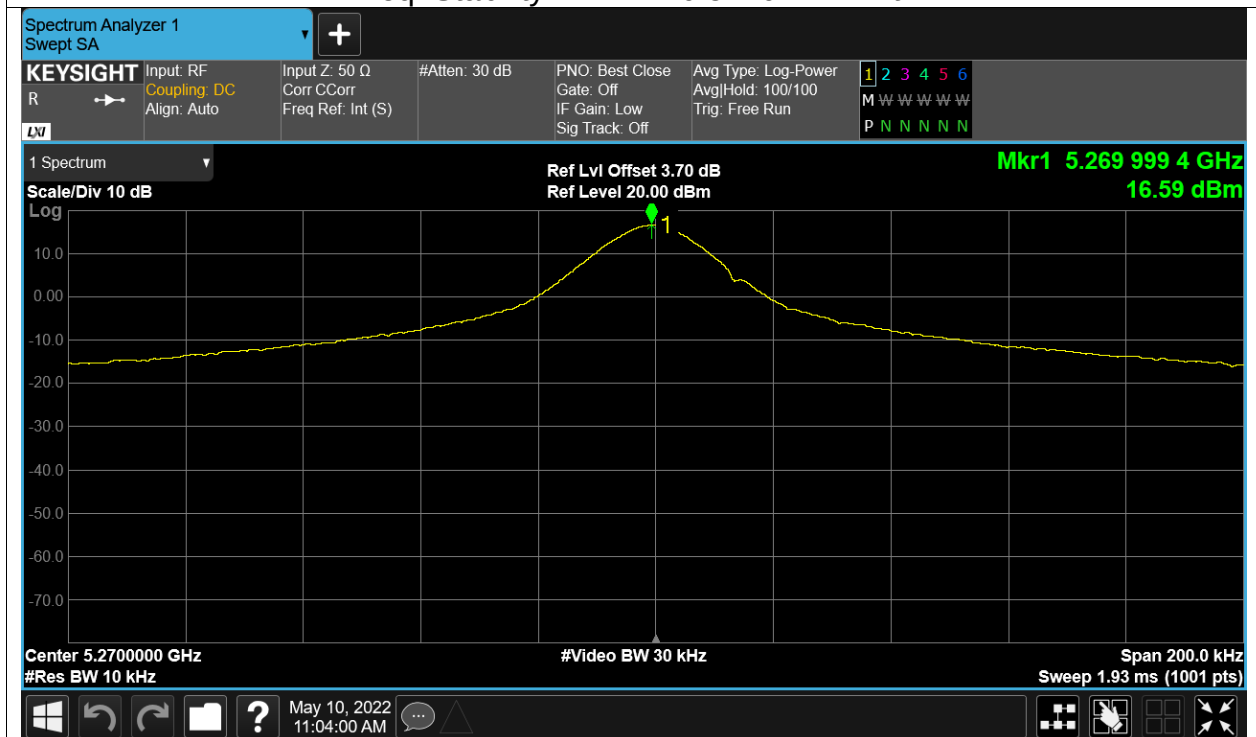
Freq. Stability LVNT n40 5270MHz Ant1



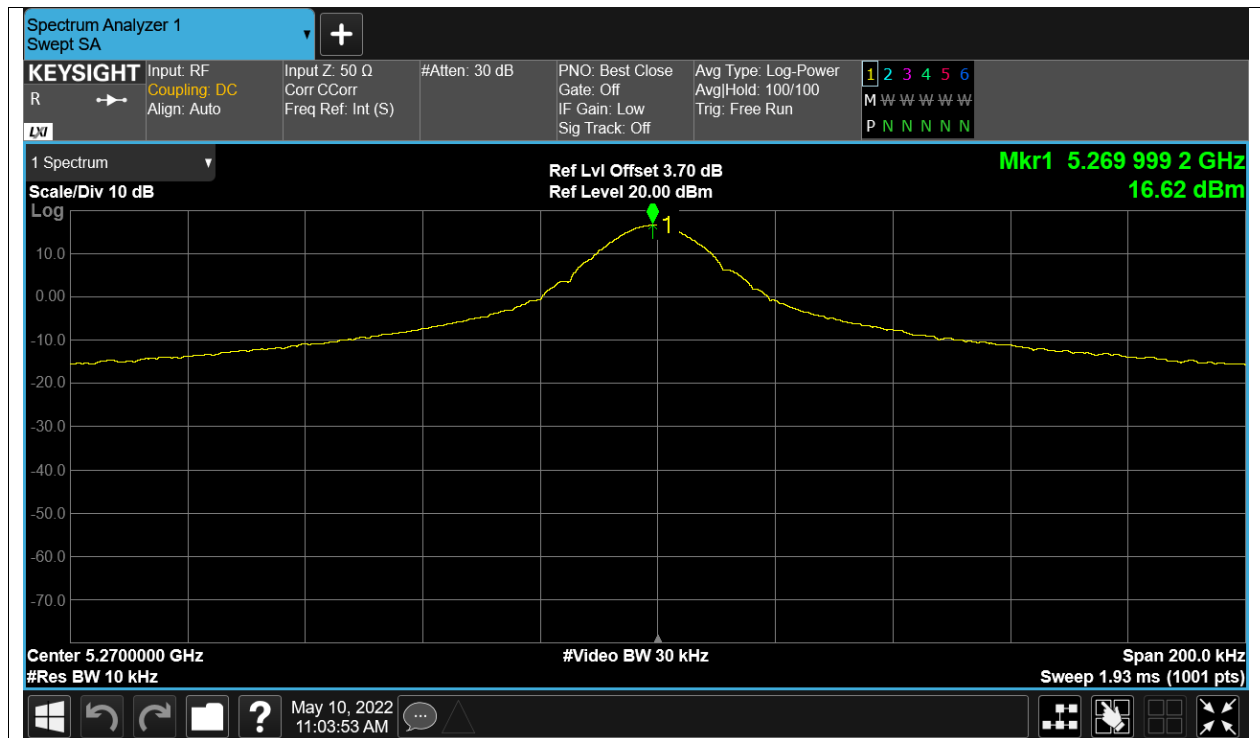
Freq. Stability NVHT n40 5270MHz Ant1



Freq. Stability NVLT n40 5270MHz Ant1



Freq. Stability NVNT n40 5270MHz Ant1

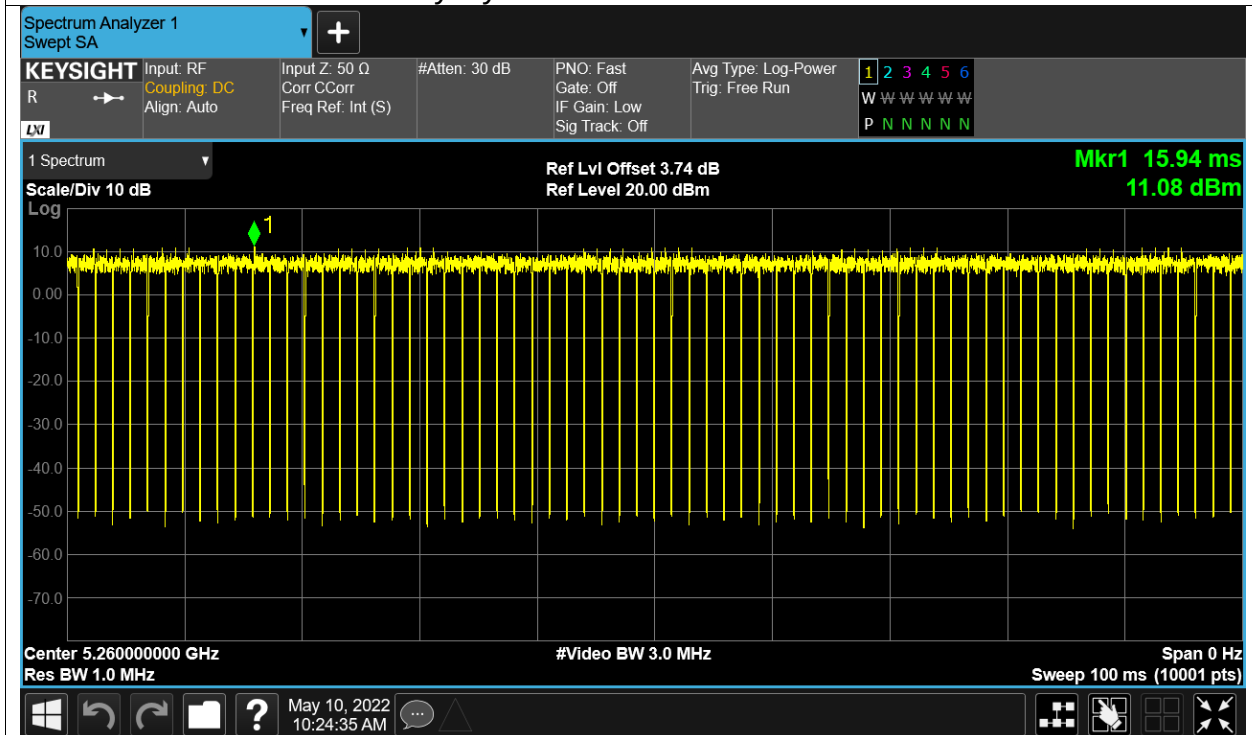


Duty Cycle

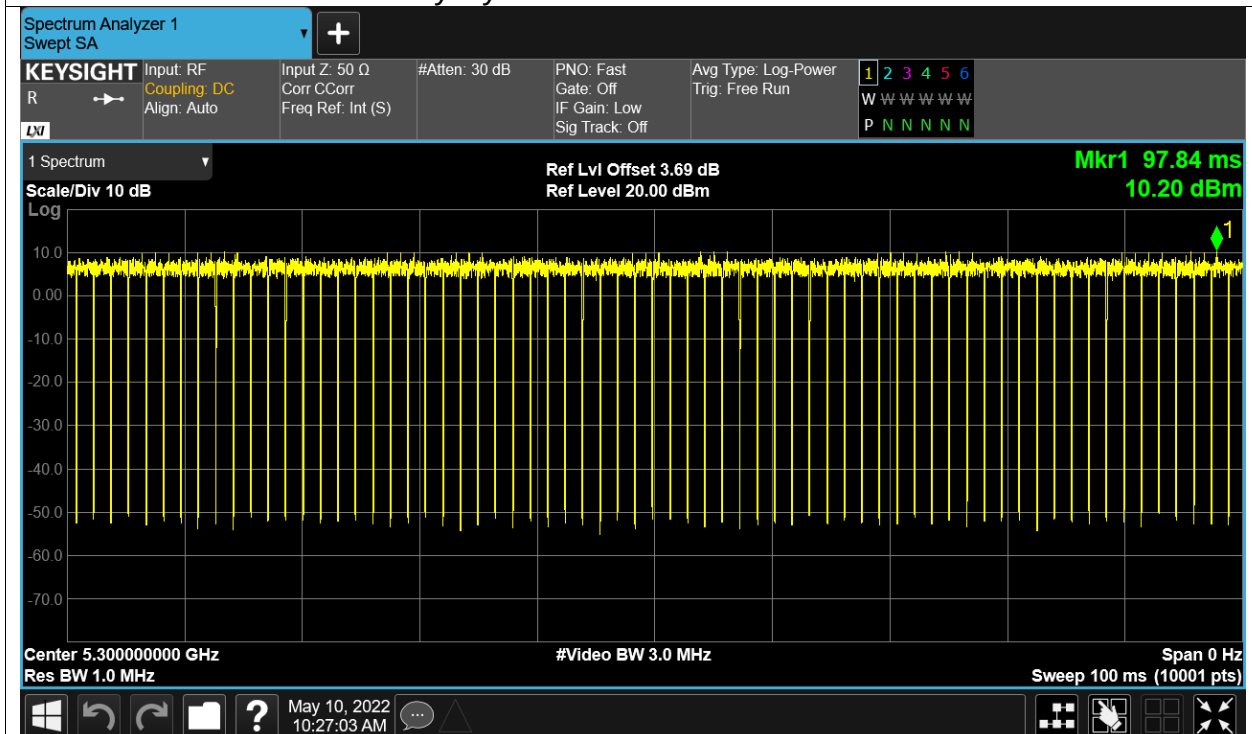
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	94.64	0.24
NVNT	a	5300	Ant1	94.77	0.23
NVNT	a	5320	Ant1	94.77	0.23
NVNT	ac20	5260	Ant1	94.46	0.25
NVNT	ac20	5300	Ant1	94.47	0.25
NVNT	ac20	5320	Ant1	94.47	0.25
NVNT	ac40	5270	Ant1	89.55	0.48
NVNT	ac40	5310	Ant1	89.55	0.48
NVNT	ac80	5290	Ant1	81.13	0.91
NVNT	n20	5260	Ant1	94.39	0.25
NVNT	n20	5300	Ant1	94.38	0.25
NVNT	n20	5320	Ant1	94.44	0.25
NVNT	n40	5270	Ant1	89.12	0.5
NVNT	n40	5310	Ant1	89.2	0.5

Test Graphs

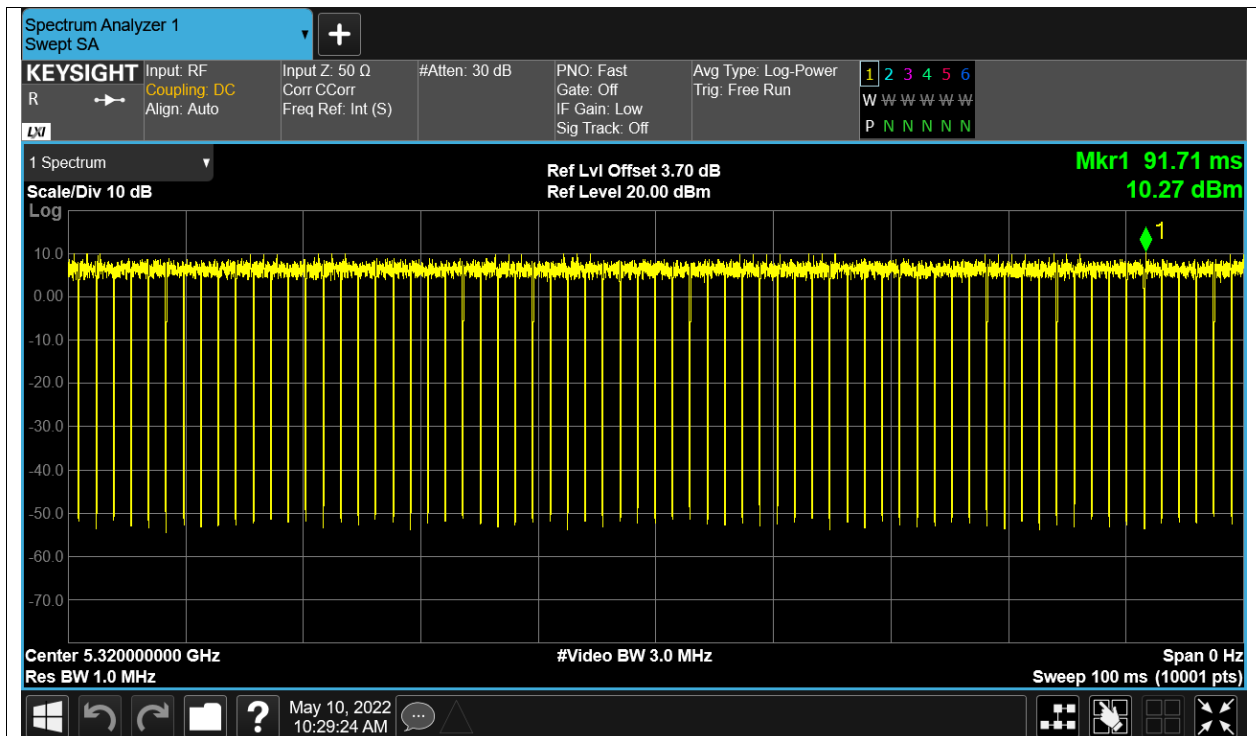
Duty Cycle NVNT a 5260MHz Ant1



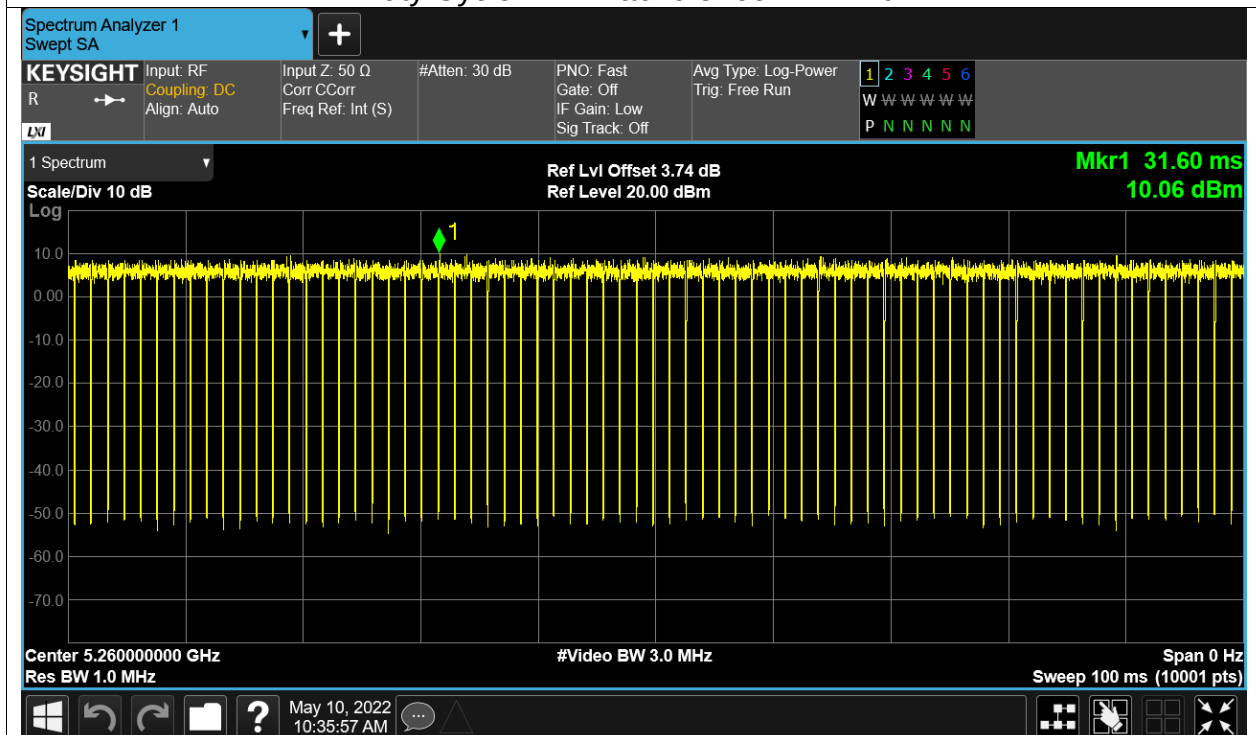
Duty Cycle NVNT a 5300MHz Ant1



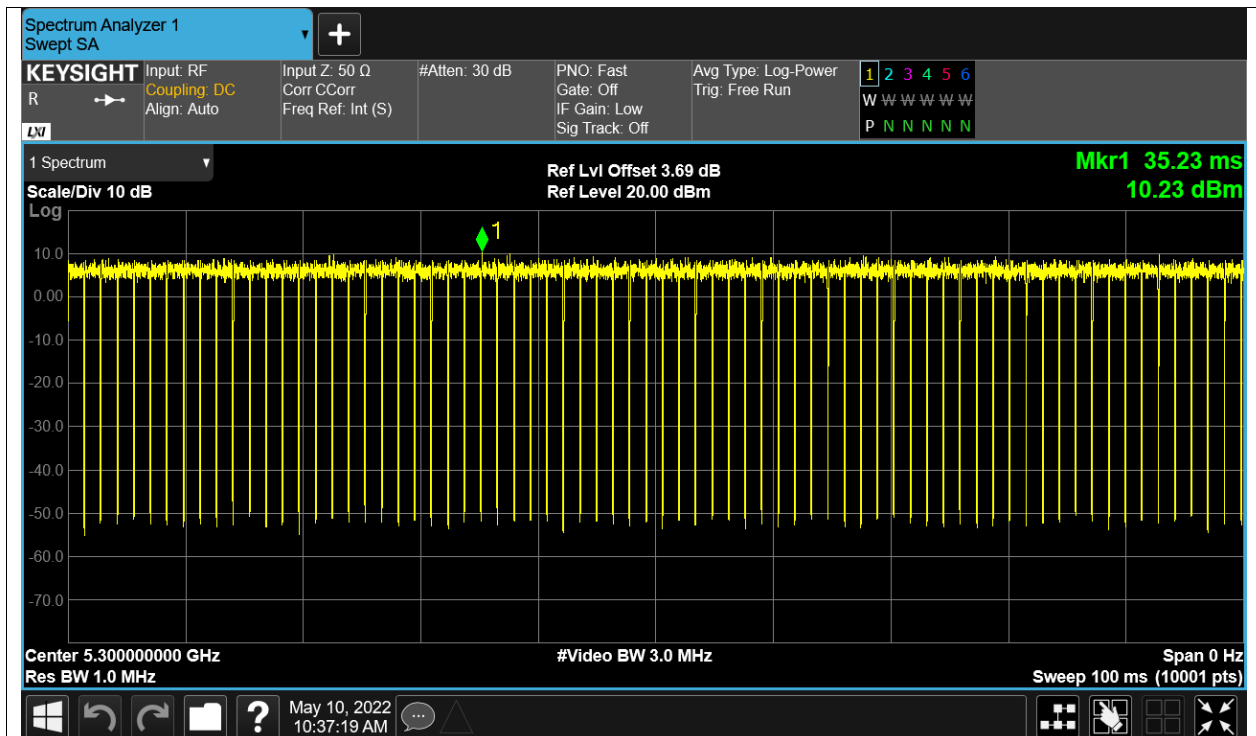
Duty Cycle NVNT a 5320MHz Ant1



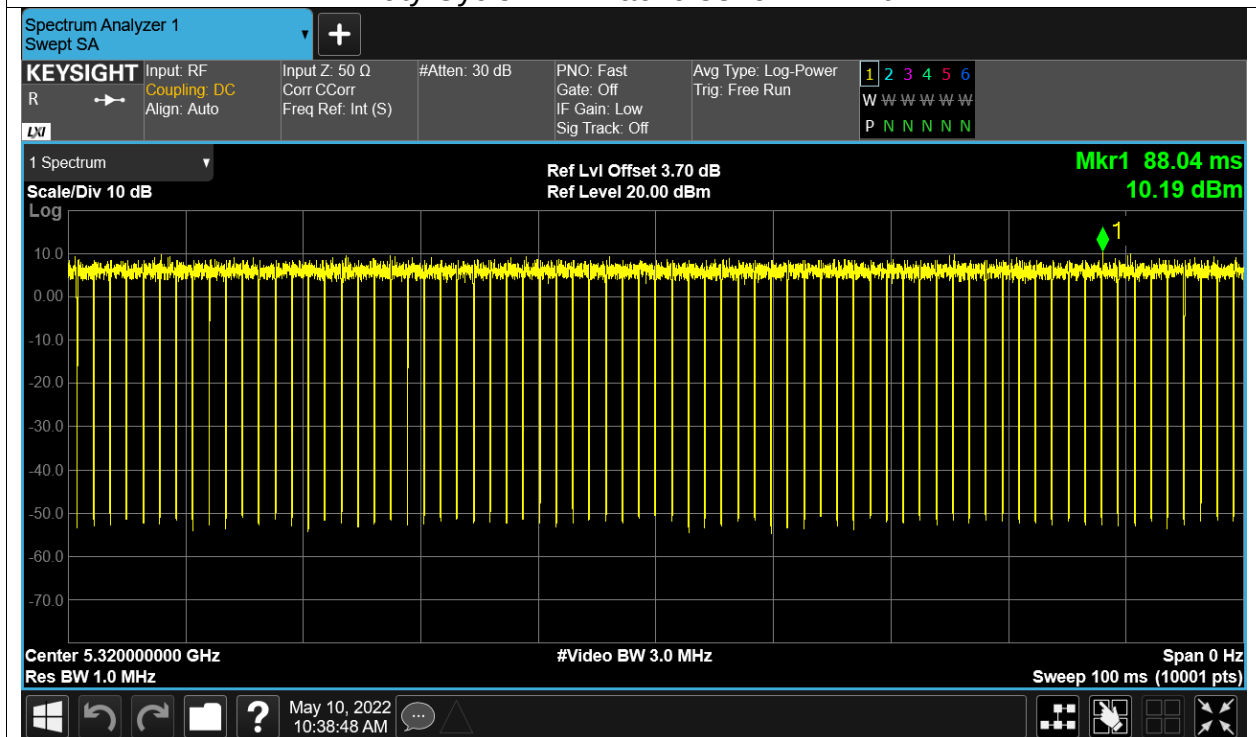
Duty Cycle NVNT ac20 5260MHz Ant1



Duty Cycle NVNT ac20 5300MHz Ant1



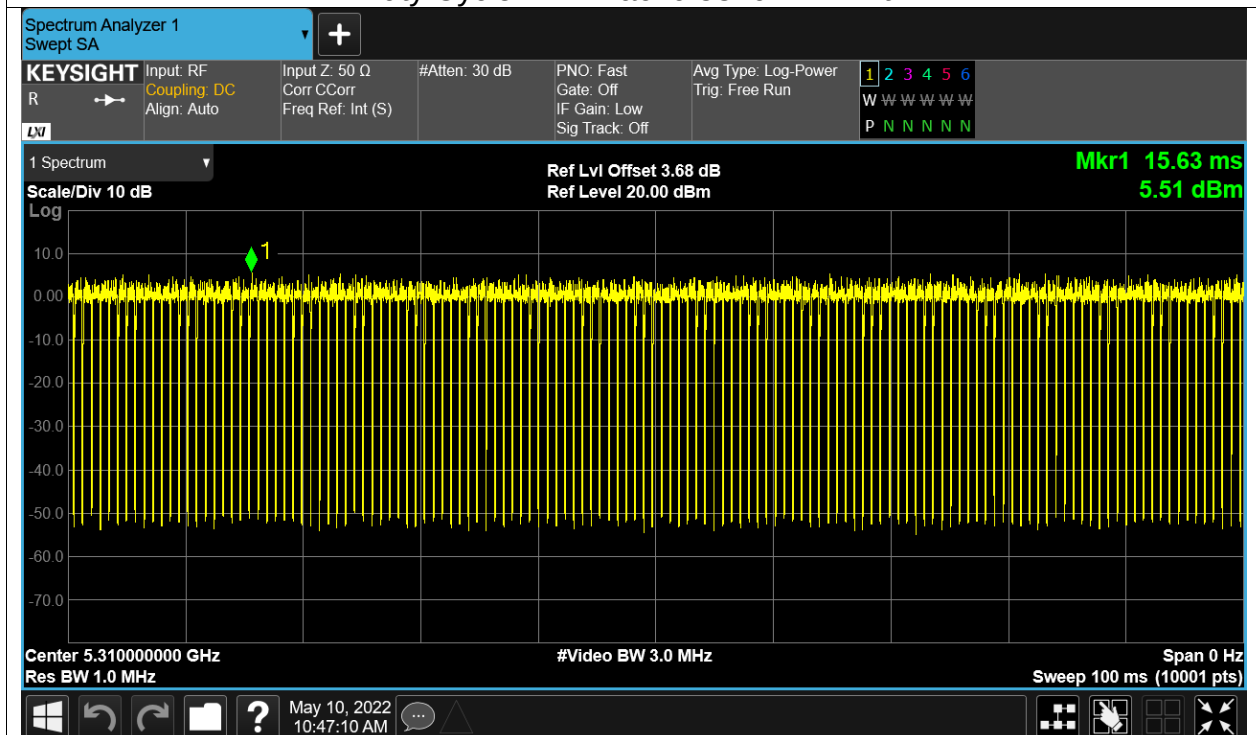
Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1



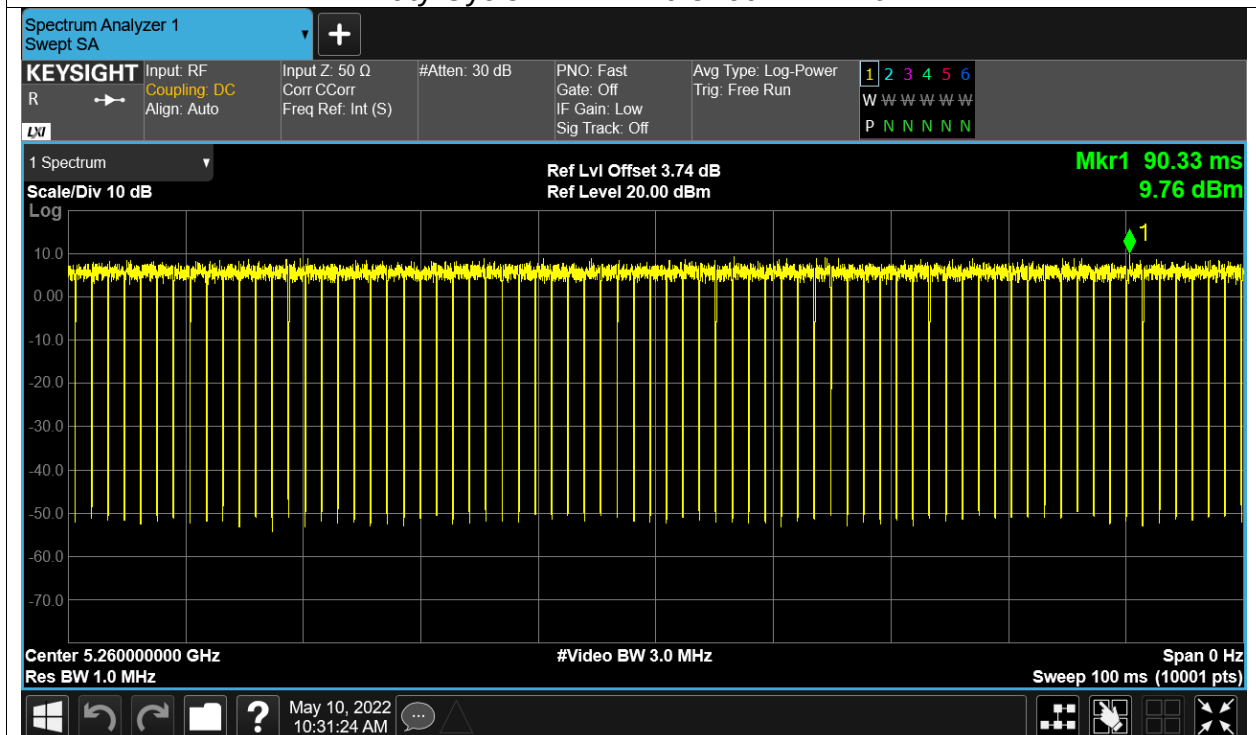
Duty Cycle NVNT ac40 5310MHz Ant1



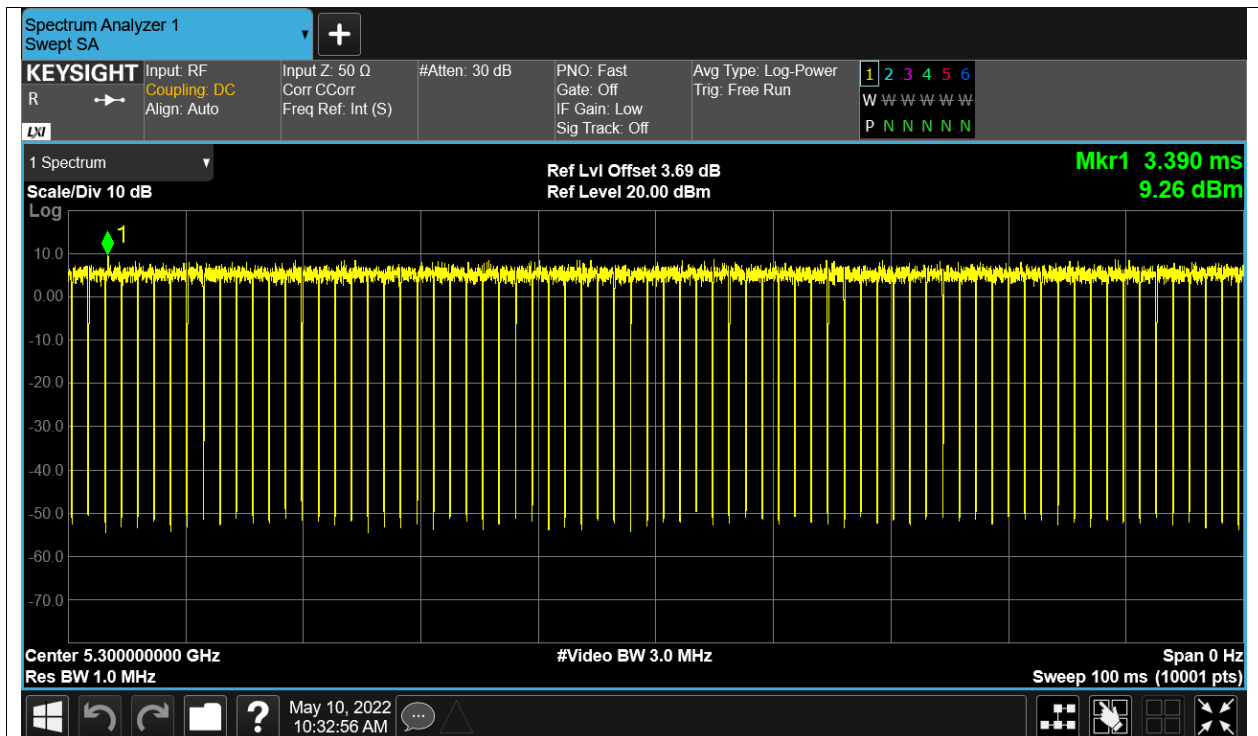
Duty Cycle NVNT ac80 5290MHz Ant1



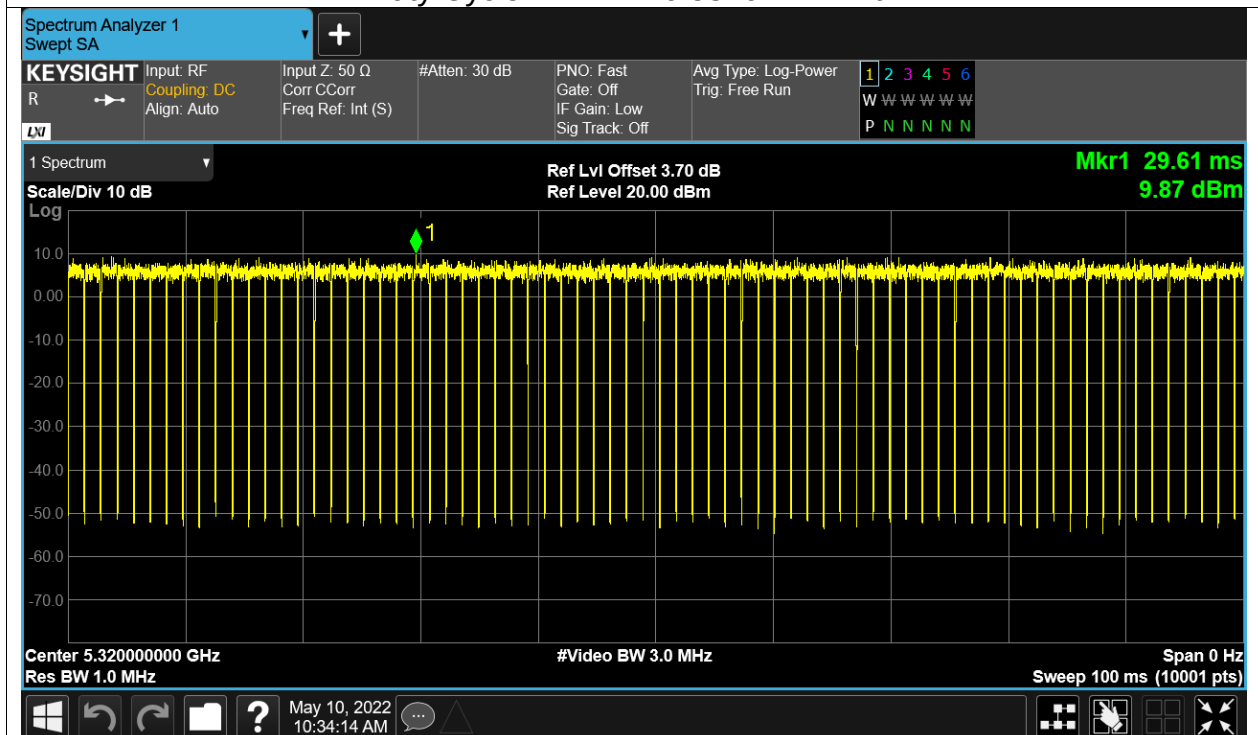
Duty Cycle NVNT n20 5260MHz Ant1



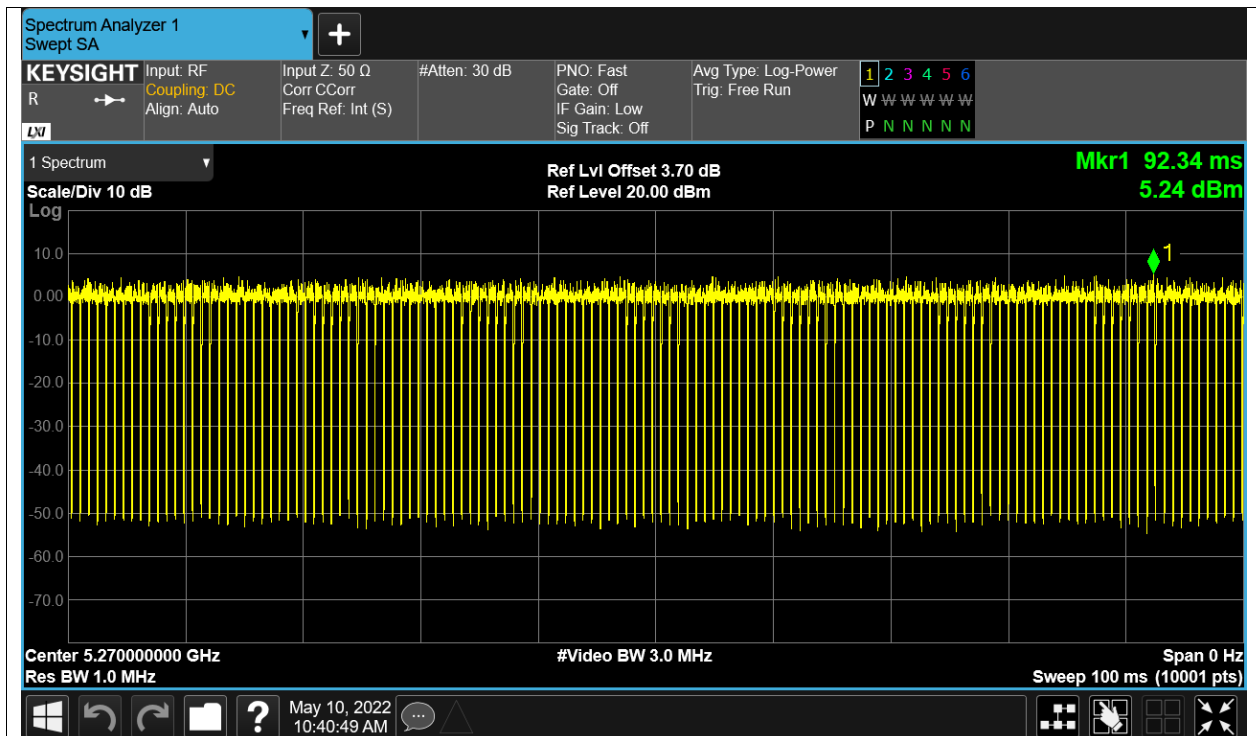
Duty Cycle NVNT n20 5300MHz Ant1



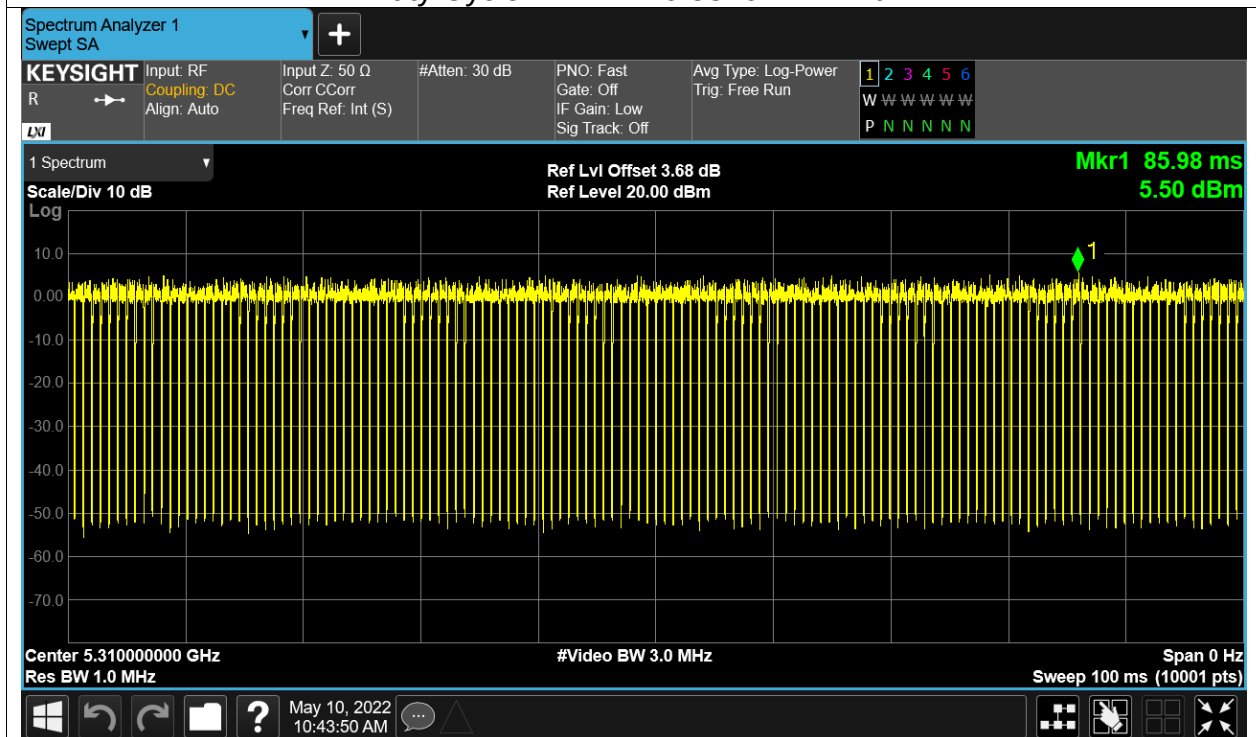
Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



Maximum Conducted Output Power

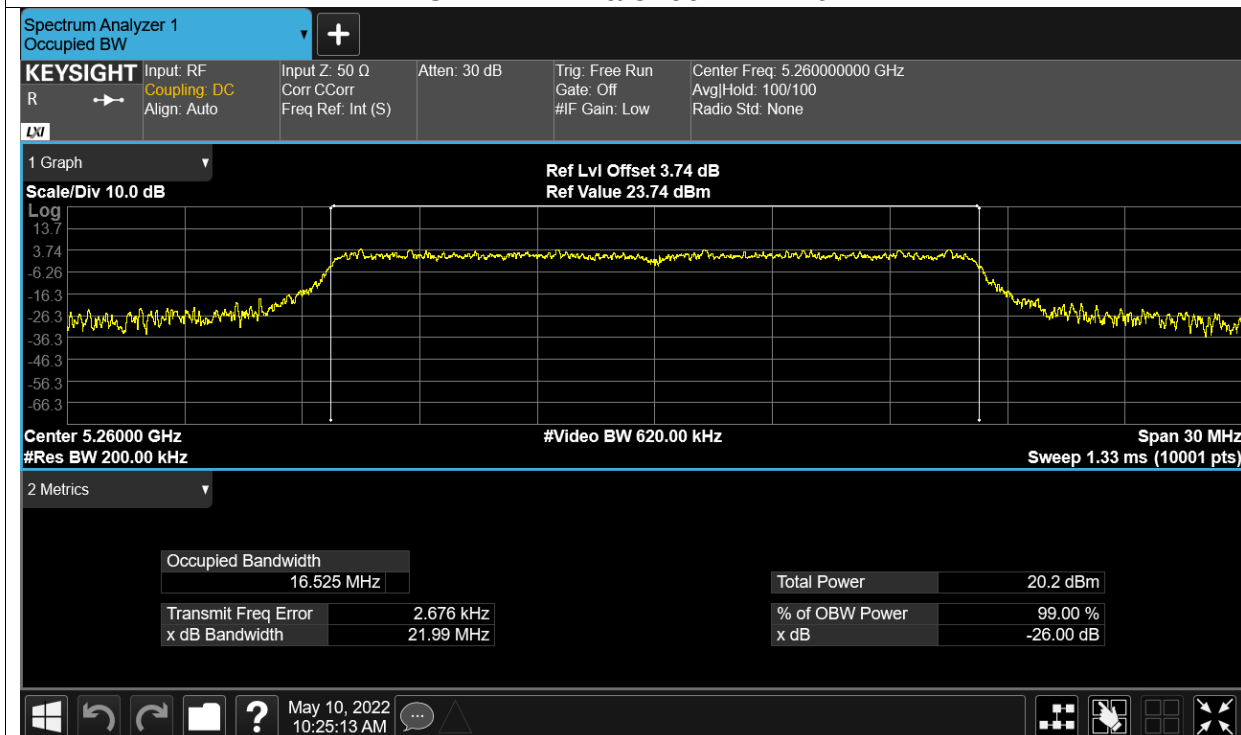
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	14.59	0.24	14.83	24	Pass
NVNT	a	5300	Ant1	14.68	0.23	14.91	24	Pass
NVNT	a	5320	Ant1	15.13	0.23	15.36	24	Pass
NVNT	ac20	5260	Ant1	13.57	0.25	13.82	24	Pass
NVNT	ac20	5300	Ant1	14.49	0.25	14.74	24	Pass
NVNT	ac20	5320	Ant1	14.38	0.25	14.63	24	Pass
NVNT	ac40	5270	Ant1	14.45	0.48	14.93	24	Pass
NVNT	ac40	5310	Ant1	14.69	0.48	15.17	24	Pass
NVNT	ac80	5290	Ant1	13.9	0.91	14.81	24	Pass
NVNT	n20	5260	Ant1	13.35	0.25	13.6	24	Pass
NVNT	n20	5300	Ant1	14.33	0.25	14.58	24	Pass
NVNT	n20	5320	Ant1	14.17	0.25	14.42	24	Pass
NVNT	n40	5270	Ant1	13.61	0.5	14.11	24	Pass
NVNT	n40	5310	Ant1	14.48	0.5	14.98	24	Pass

Occupied Channel Bandwidth

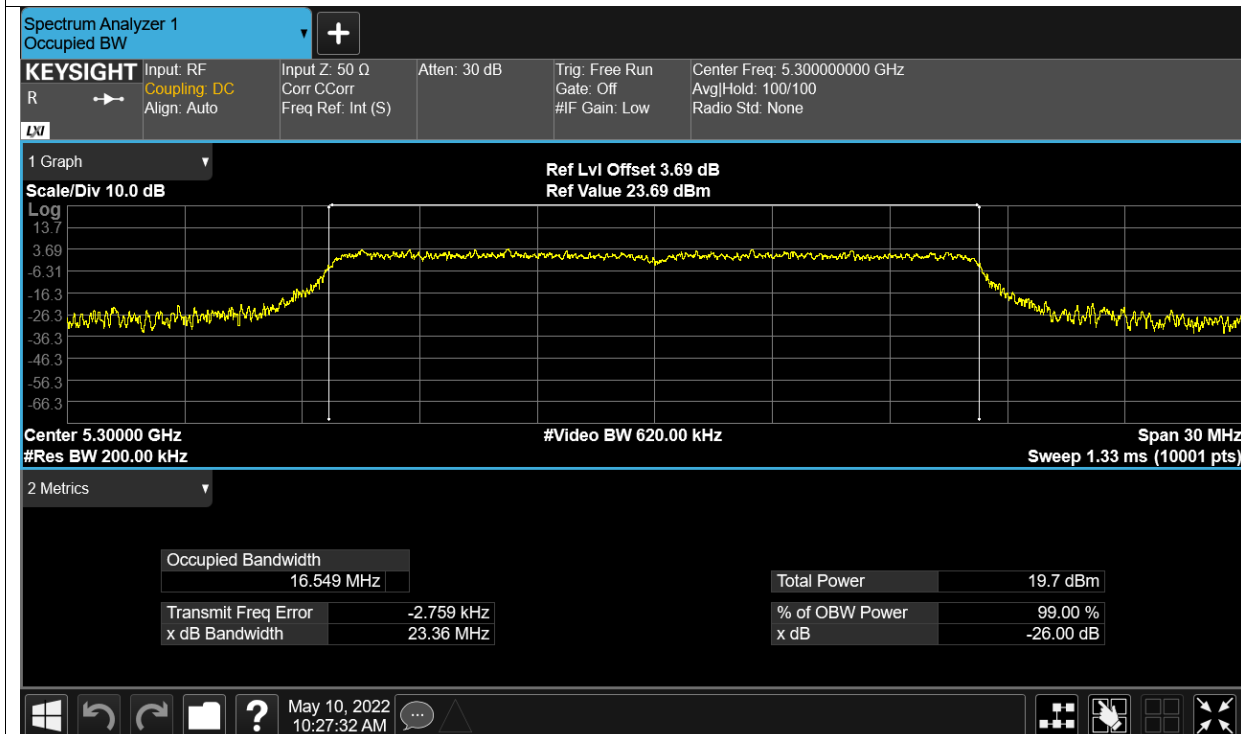
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.5250562
NVNT	a	5300	Ant1	16.54935932
NVNT	a	5320	Ant1	16.55878767
NVNT	ac20	5260	Ant1	17.58788453
NVNT	ac20	5300	Ant1	17.58369698
NVNT	ac20	5320	Ant1	17.58377498
NVNT	ac40	5270	Ant1	36.13141298
NVNT	ac40	5310	Ant1	36.13540141
NVNT	ac80	5290	Ant1	75.49909236
NVNT	n20	5260	Ant1	17.55194896
NVNT	n20	5300	Ant1	17.57570831
NVNT	n20	5320	Ant1	17.56016405
NVNT	n40	5270	Ant1	36.08378502
NVNT	n40	5310	Ant1	36.07439841

Test Graphs

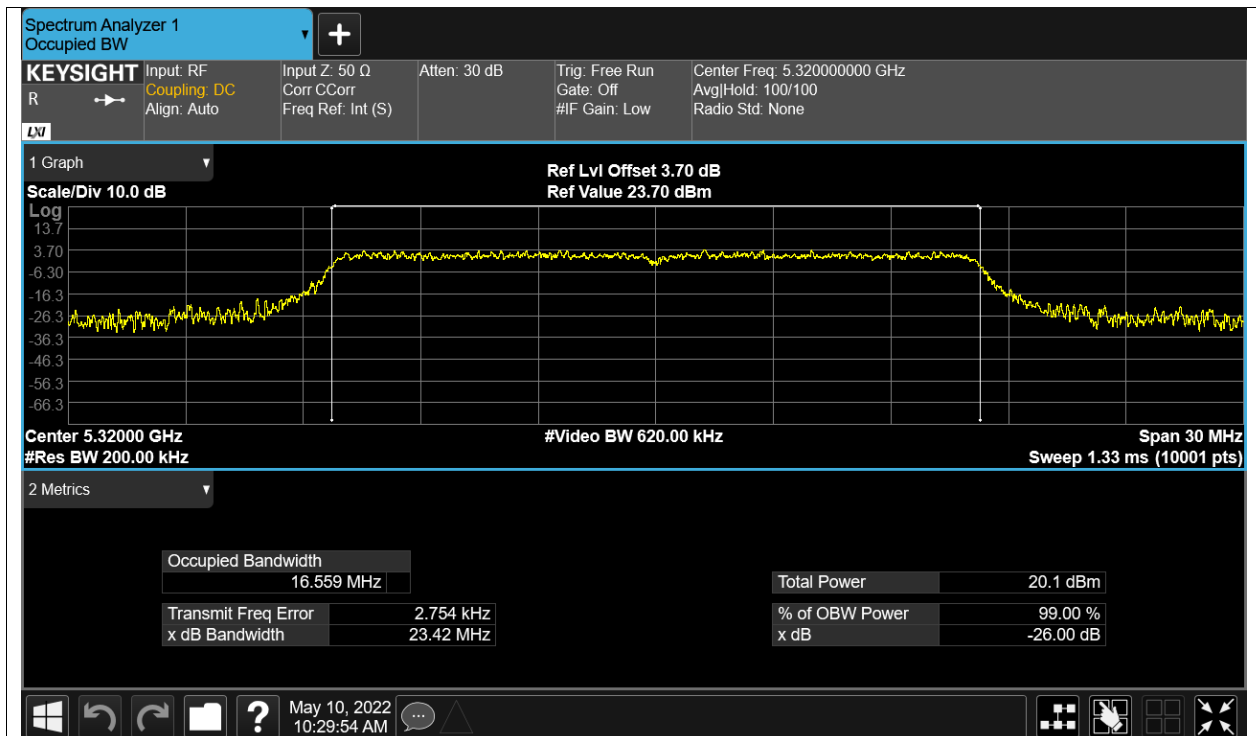
OBW NVNT a 5260MHz Ant1



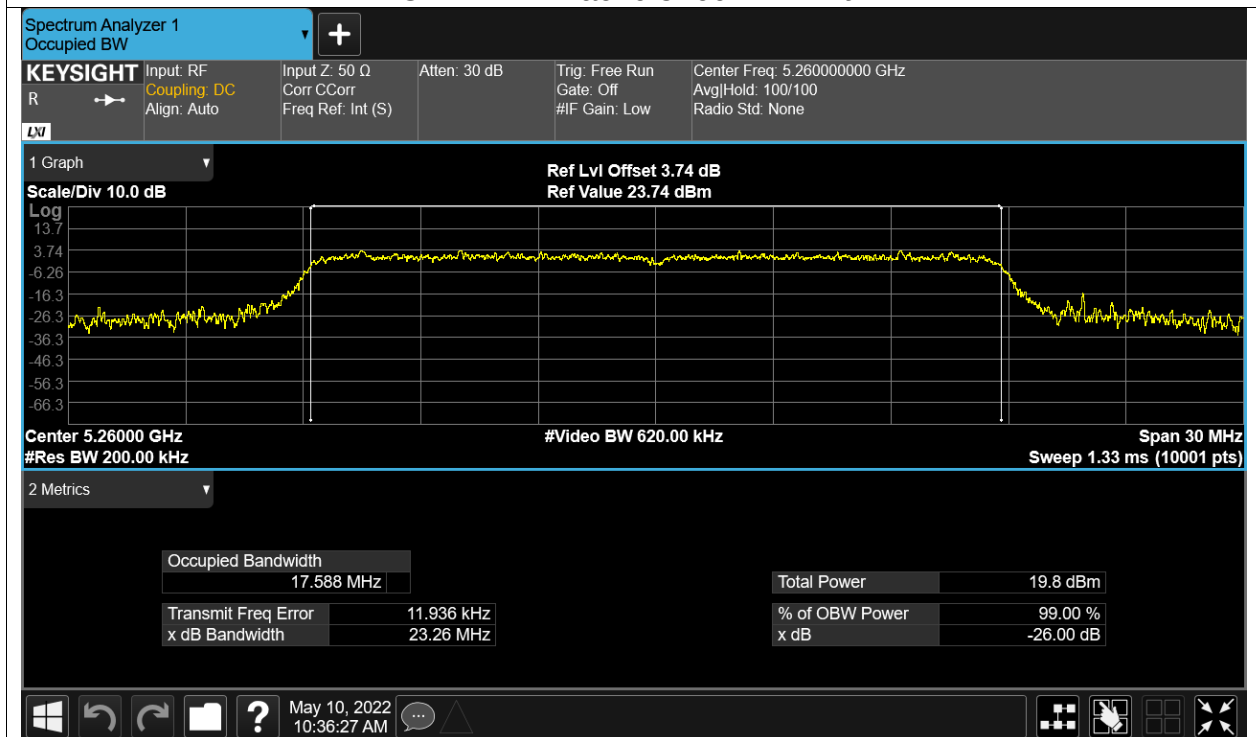
OBW NVNT a 5300MHz Ant1



OBW NVNT a 5320MHz Ant1



OBW NVNT ac20 5260MHz Ant1



OBW NVNT ac20 5300MHz Ant1