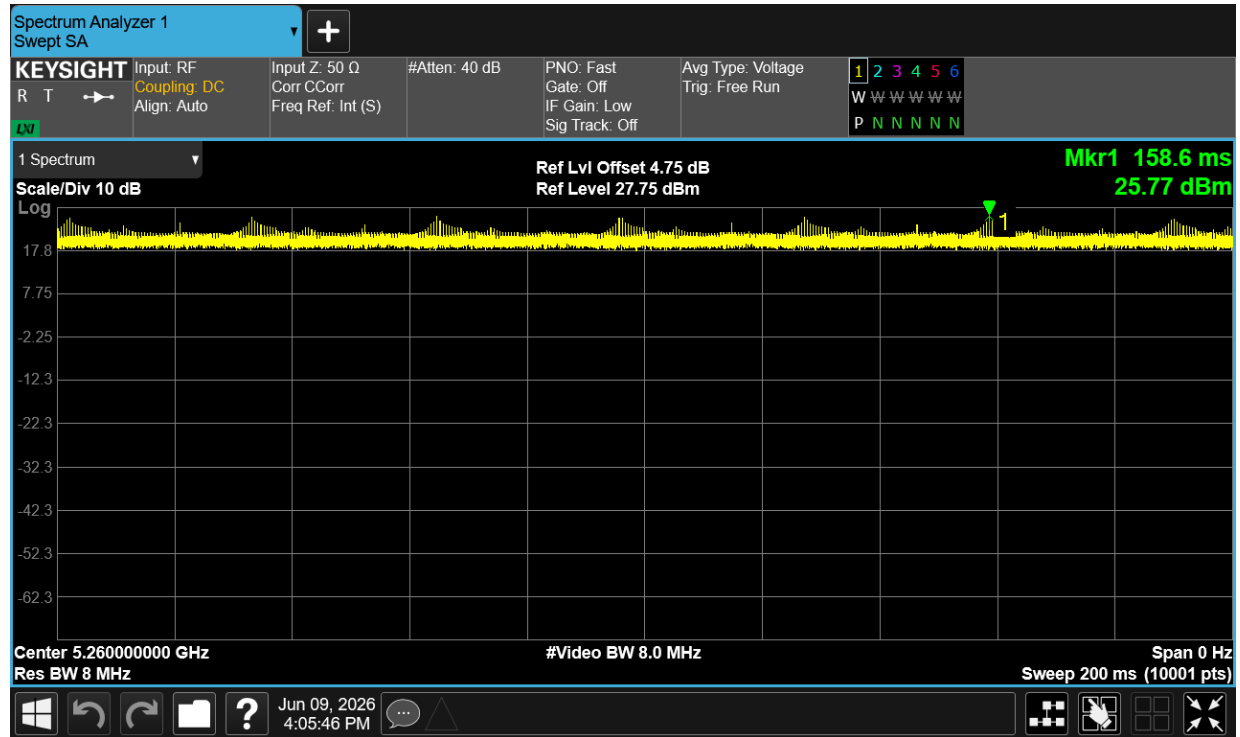


Duty Cycle

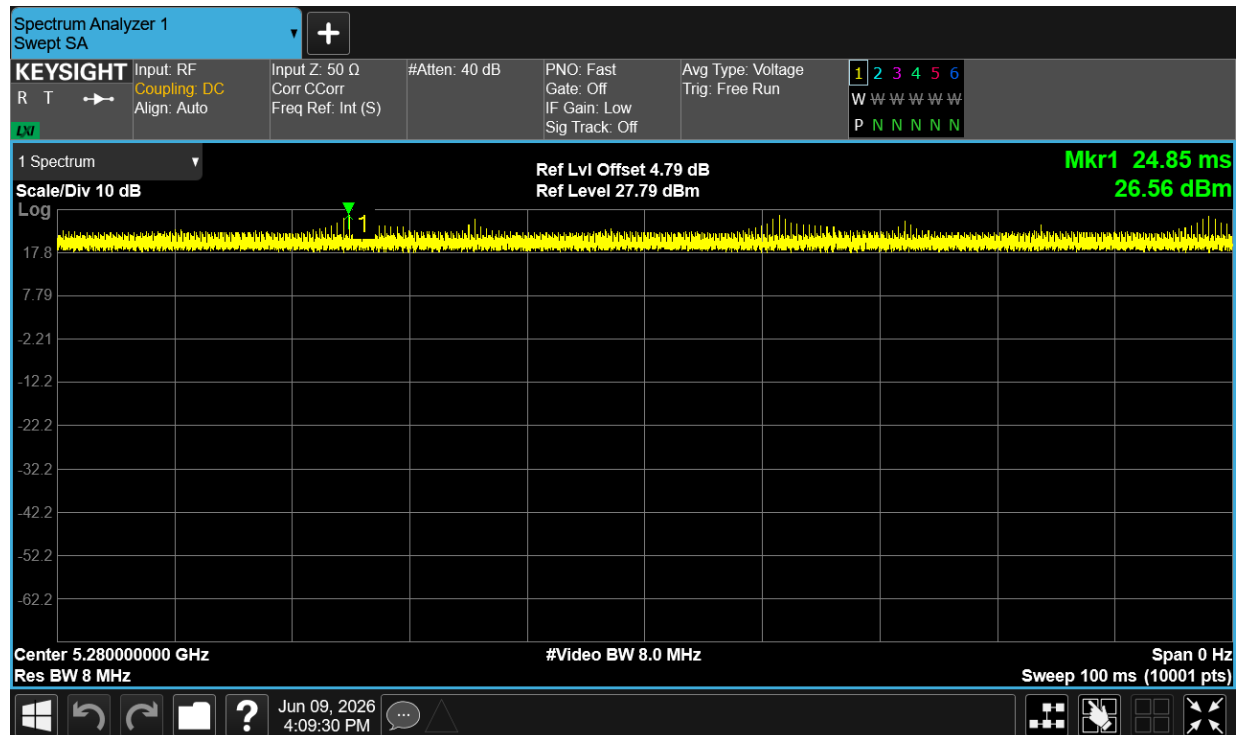
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	100	0
NVNT	a	5280	Ant1	100	0
NVNT	a	5320	Ant1	100	0
NVNT	a	5260	Ant2	100	0
NVNT	a	5280	Ant2	100	0
NVNT	a	5320	Ant2	100	0
NVNT	ac20	5260	Sum	100	0
NVNT	ac20	5280	Sum	100	0
NVNT	ac20	5320	Sum	100	0
NVNT	ac40	5270	Sum	100	0
NVNT	ac40	5310	Sum	100	0
NVNT	ac80	5290	Sum	100	0
NVNT	n20	5260	Sum	100	0
NVNT	n20	5280	Sum	100	0
NVNT	n20	5320	Sum	100	0
NVNT	n40	5270	Sum	100	0
NVNT	n40	5310	Sum	100	0

Test Graphs

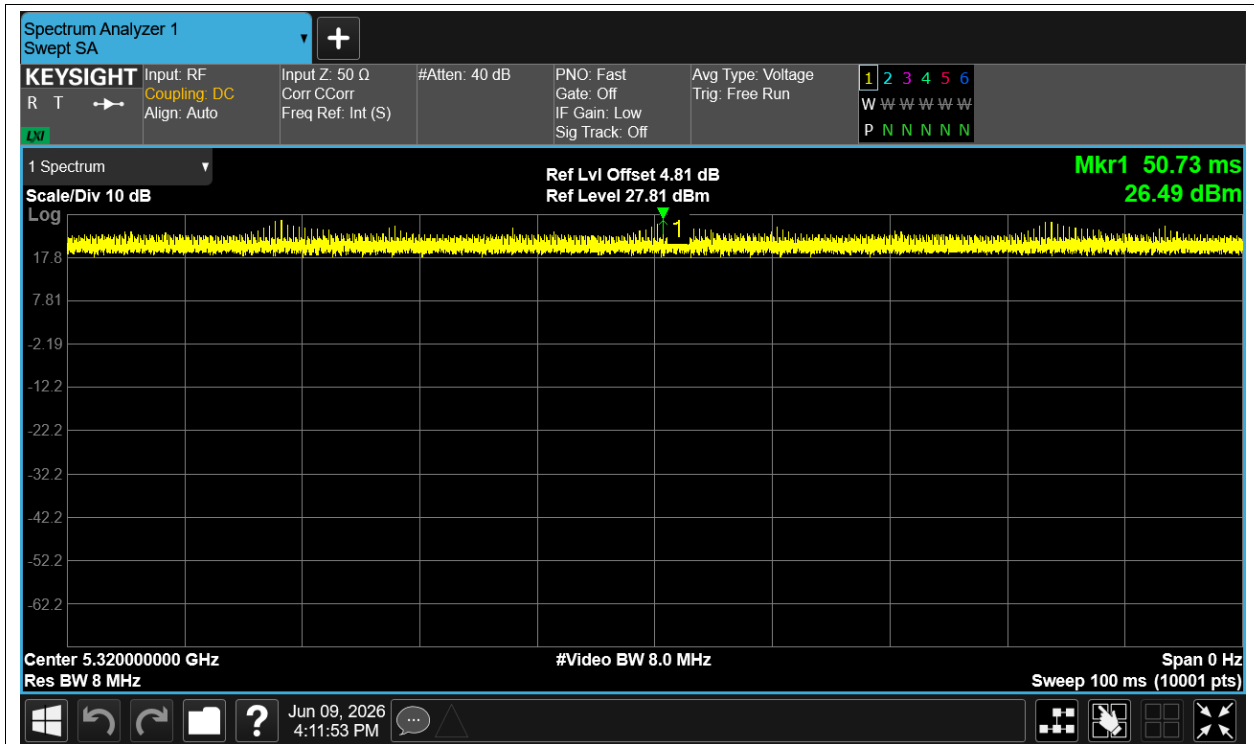
Duty Cycle NVNT a 5260MHz Ant1



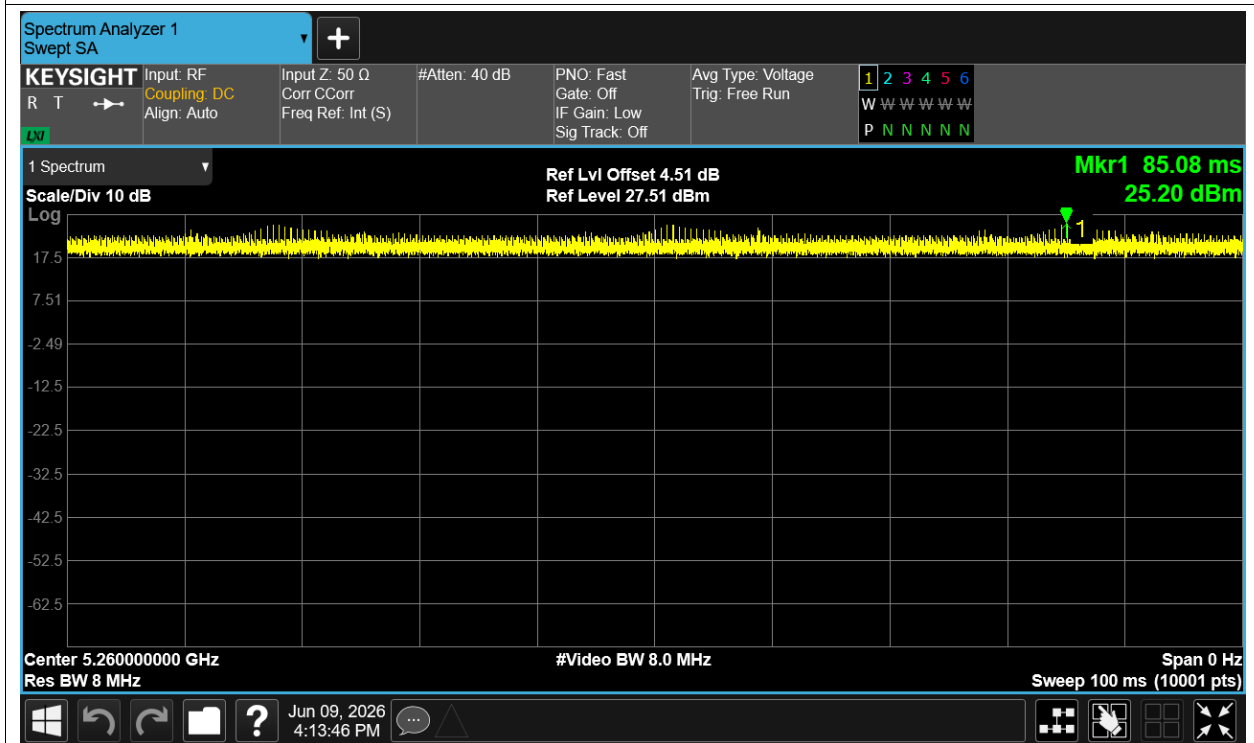
Duty Cycle NVNT a 5280MHz Ant1



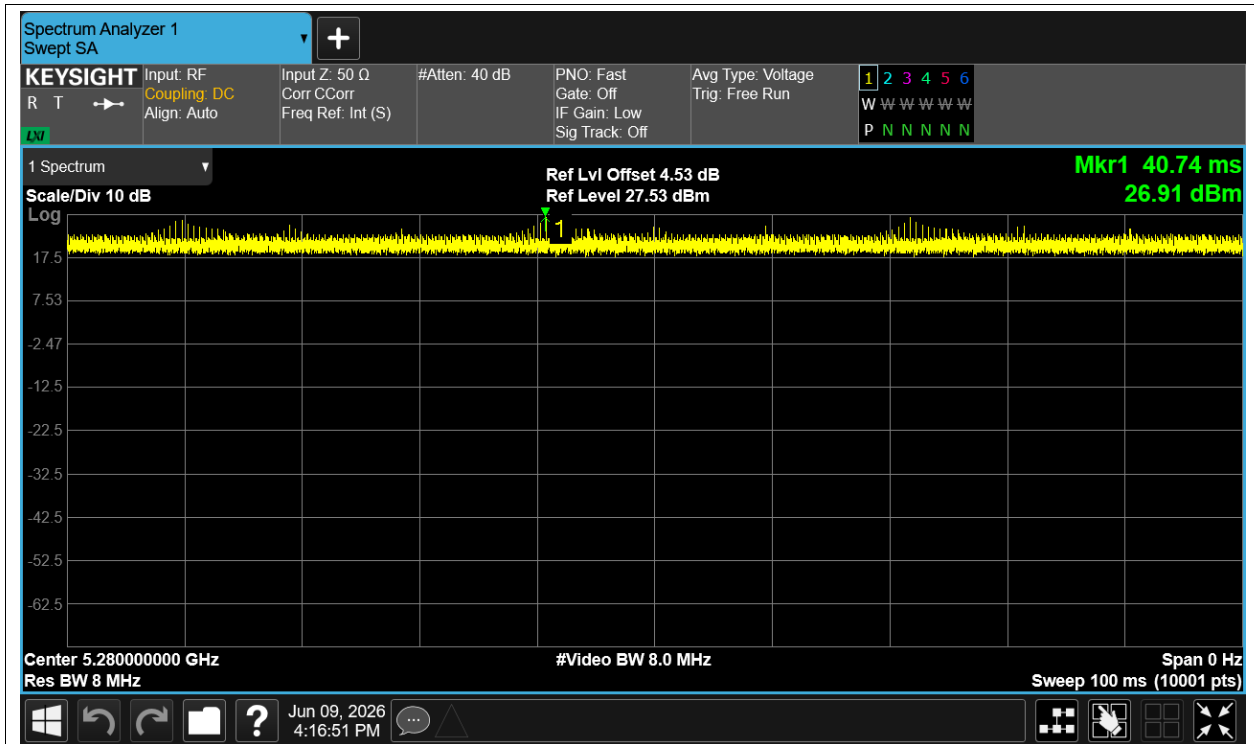
Duty Cycle NVNT a 5320MHz Ant1



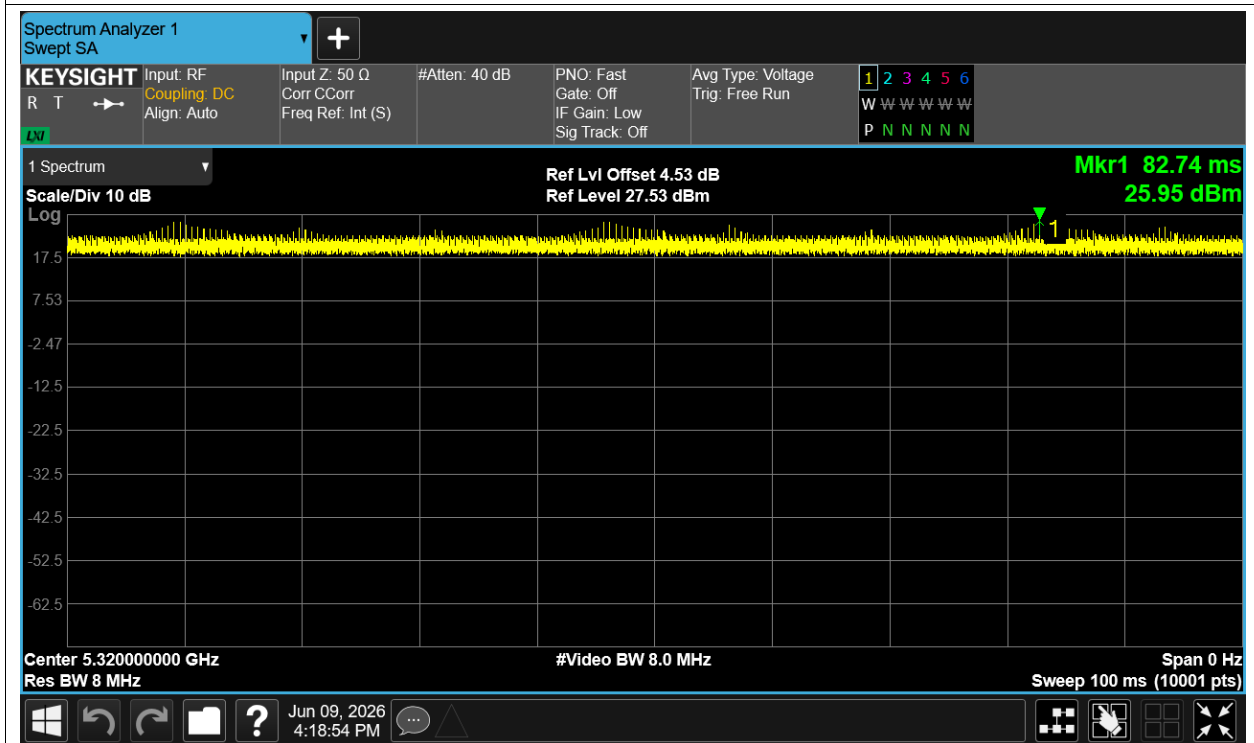
Duty Cycle NVNT a 5260MHz Ant2



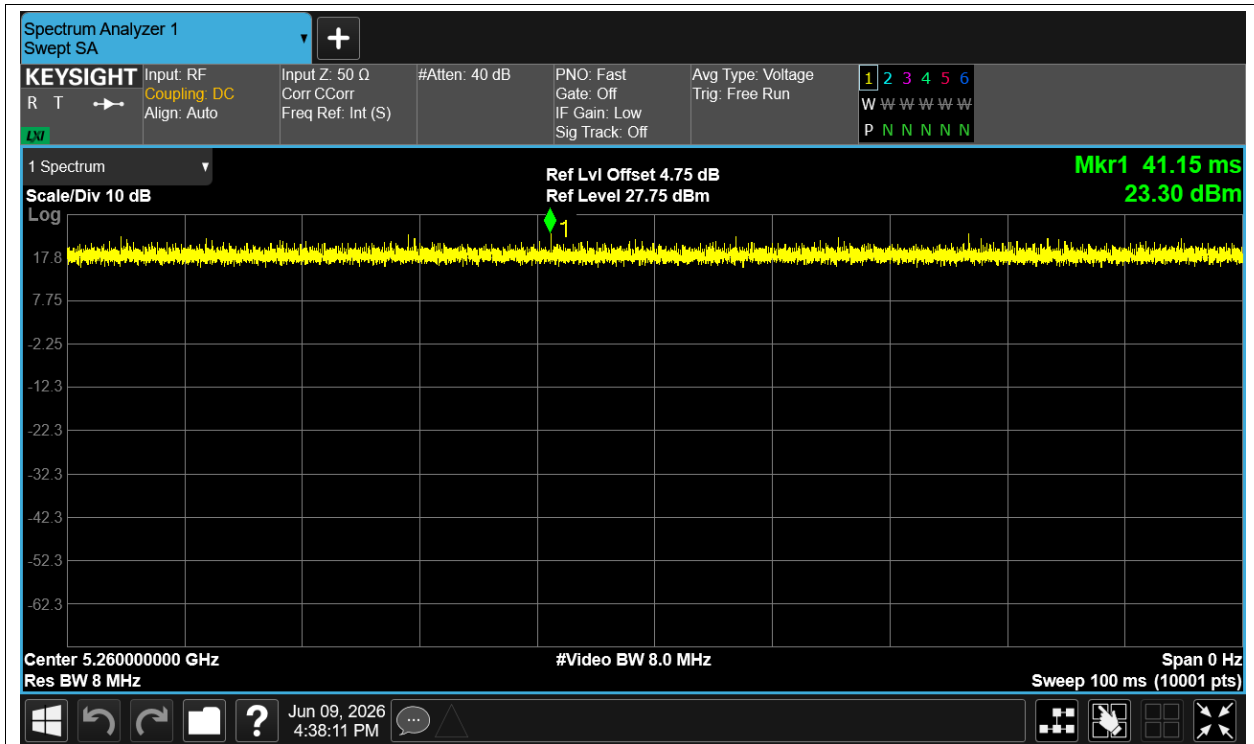
Duty Cycle NVNT a 5280MHz Ant2



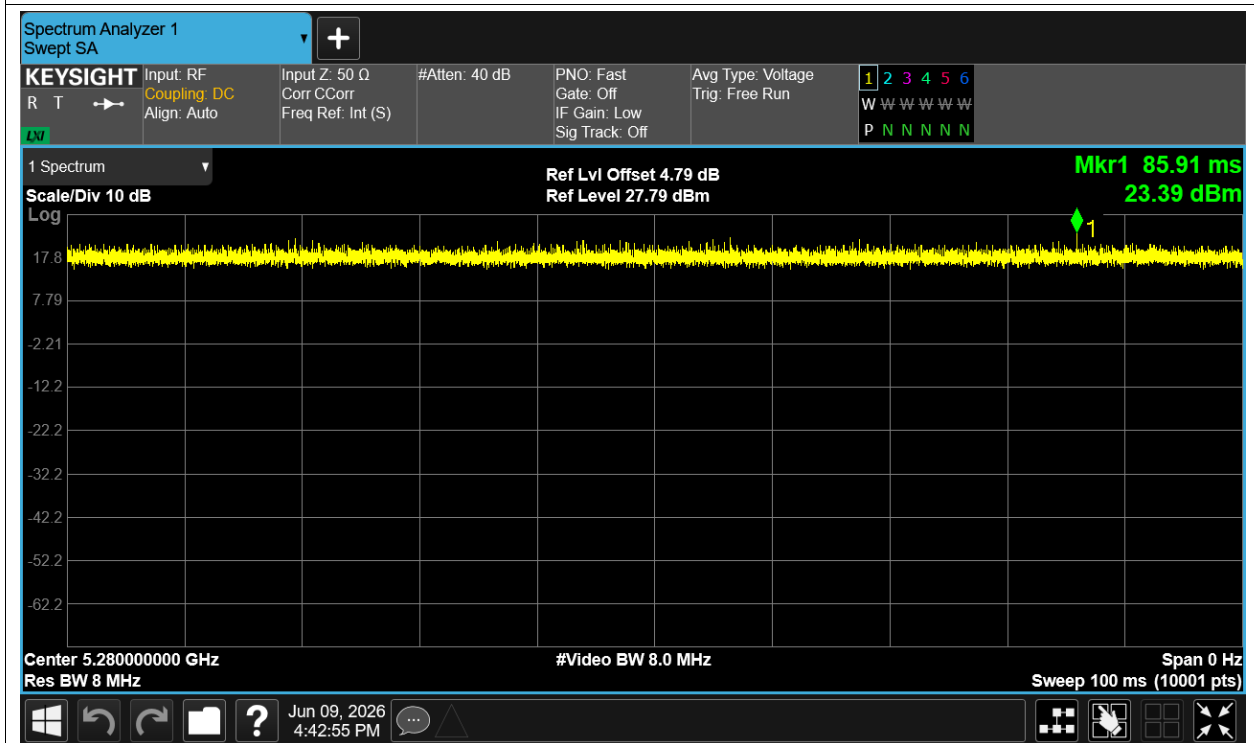
Duty Cycle NVNT a 5320MHz Ant2



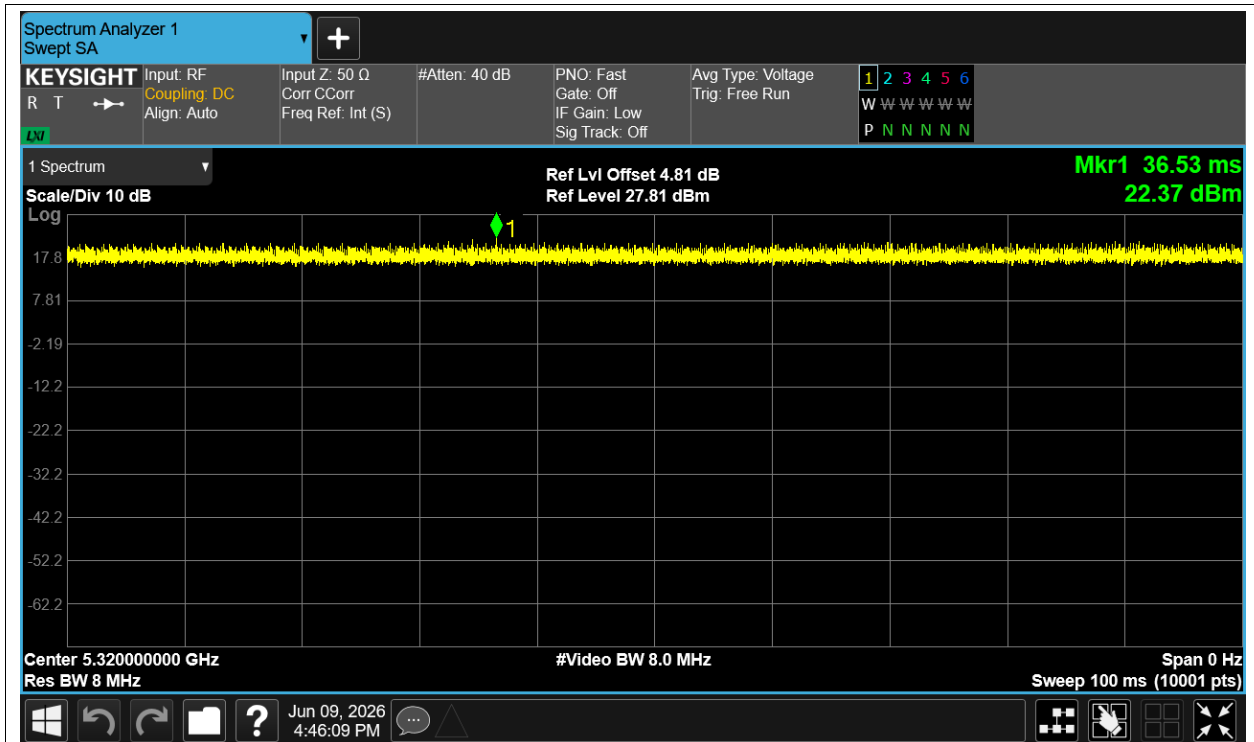
Duty Cycle NVNT ac20 5260MHz Sum



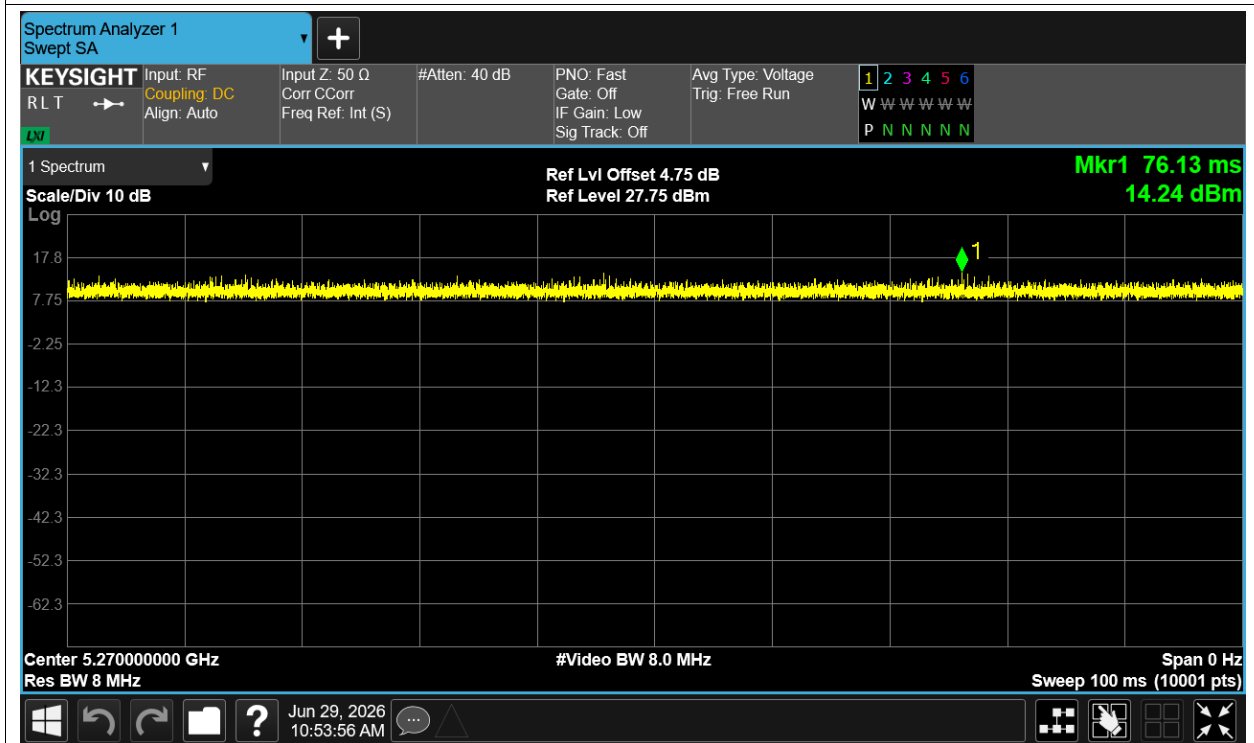
Duty Cycle NVNT ac20 5280MHz Sum



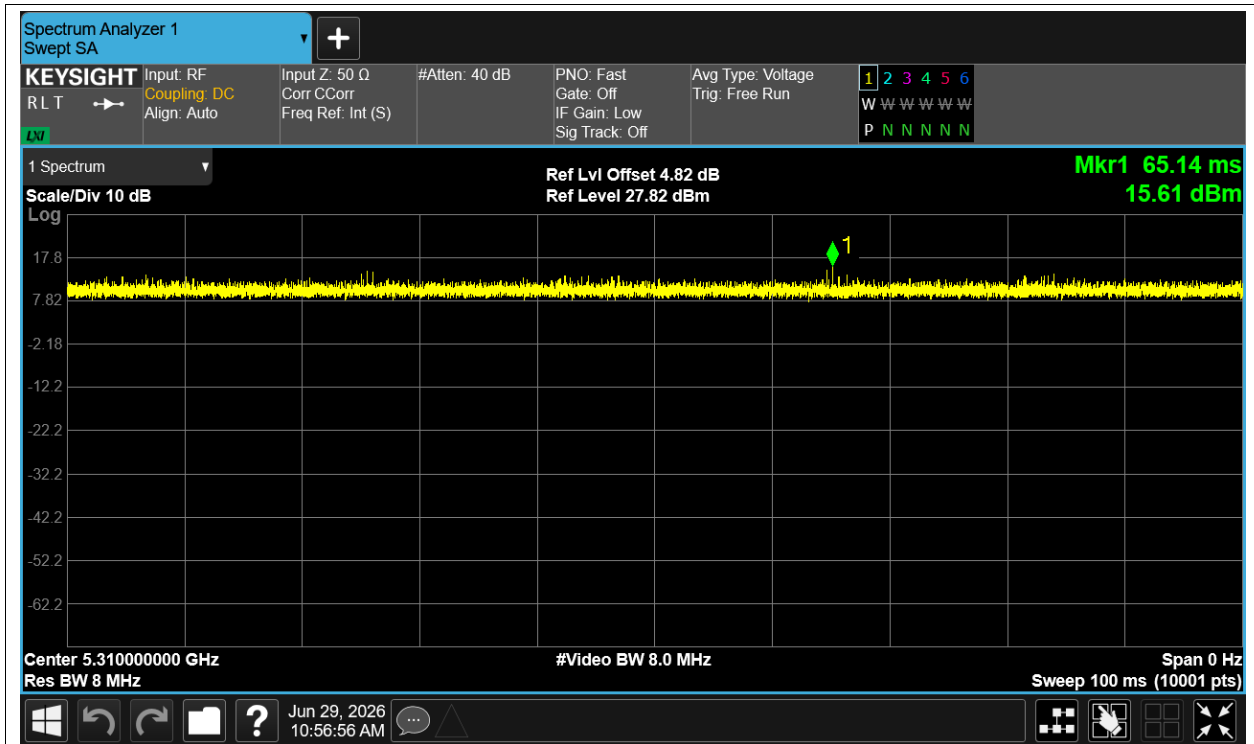
Duty Cycle NVNT ac20 5320MHz Sum



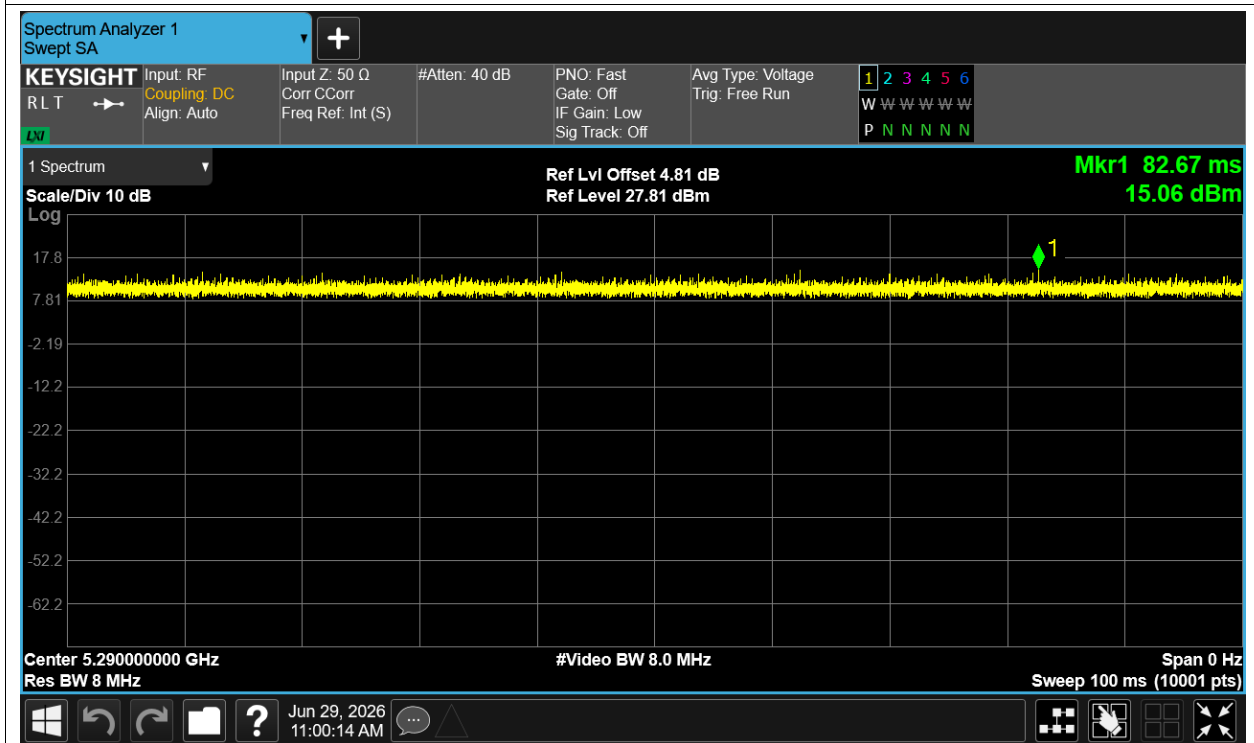
Duty Cycle NVNT ac40 5270MHz Sum



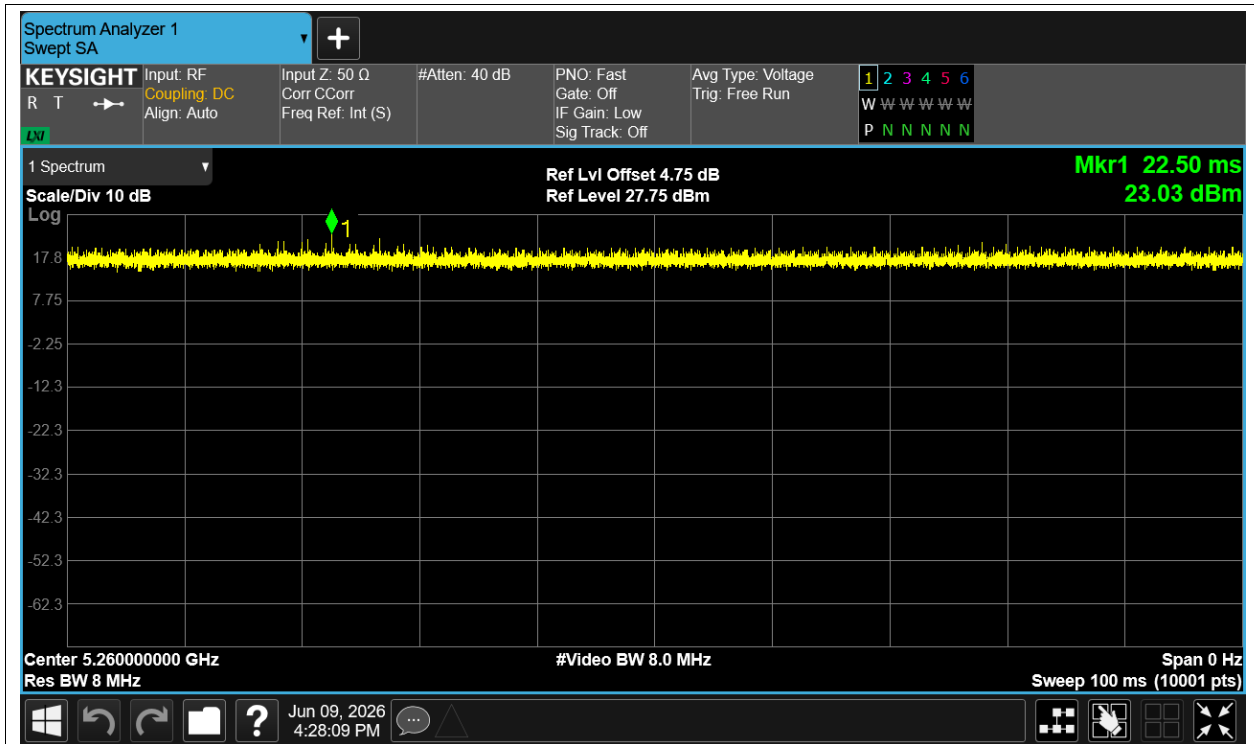
Duty Cycle NVNT ac40 5310MHz Sum



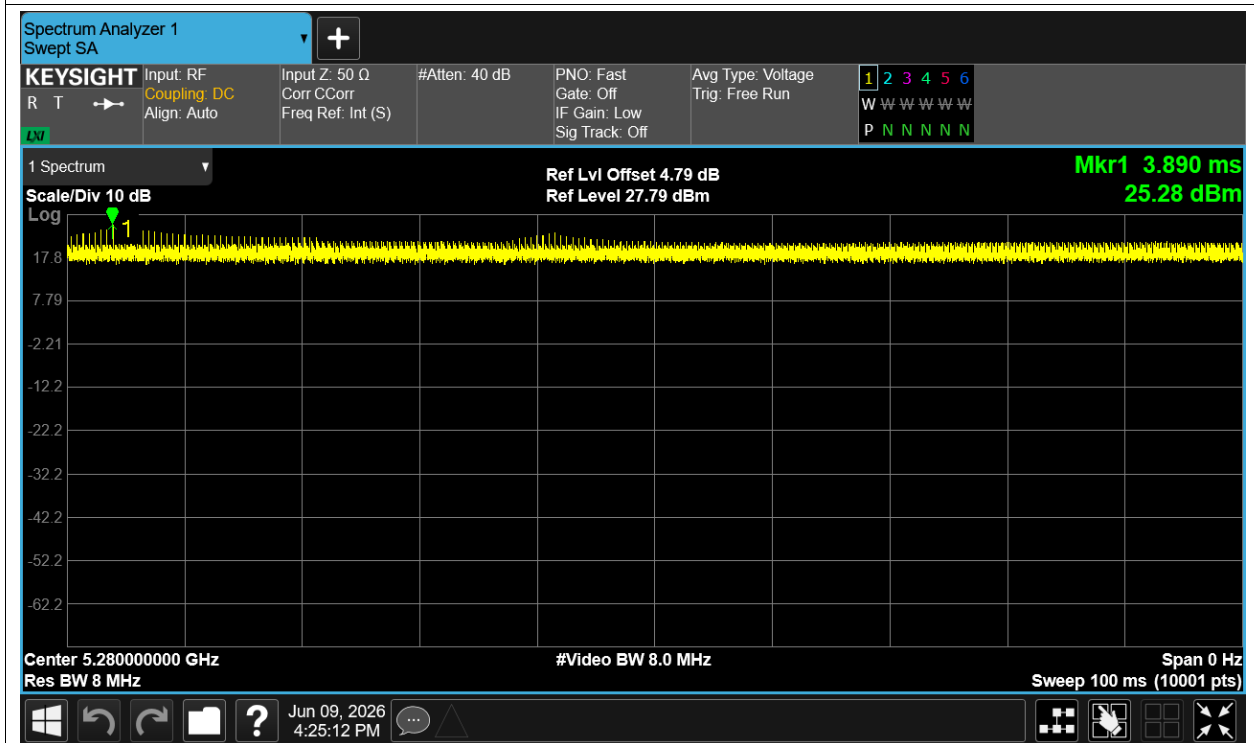
Duty Cycle NVNT ac80 5290MHz Sum



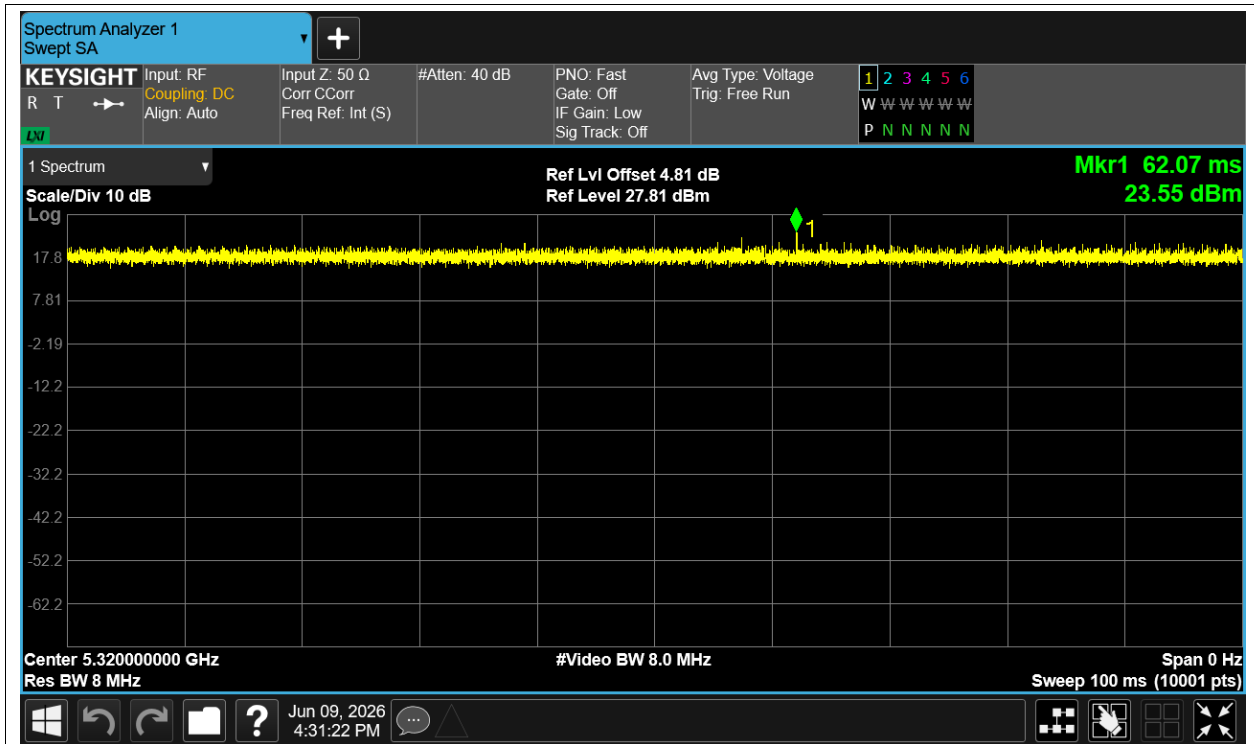
Duty Cycle NVNT n20 5260MHz Sum



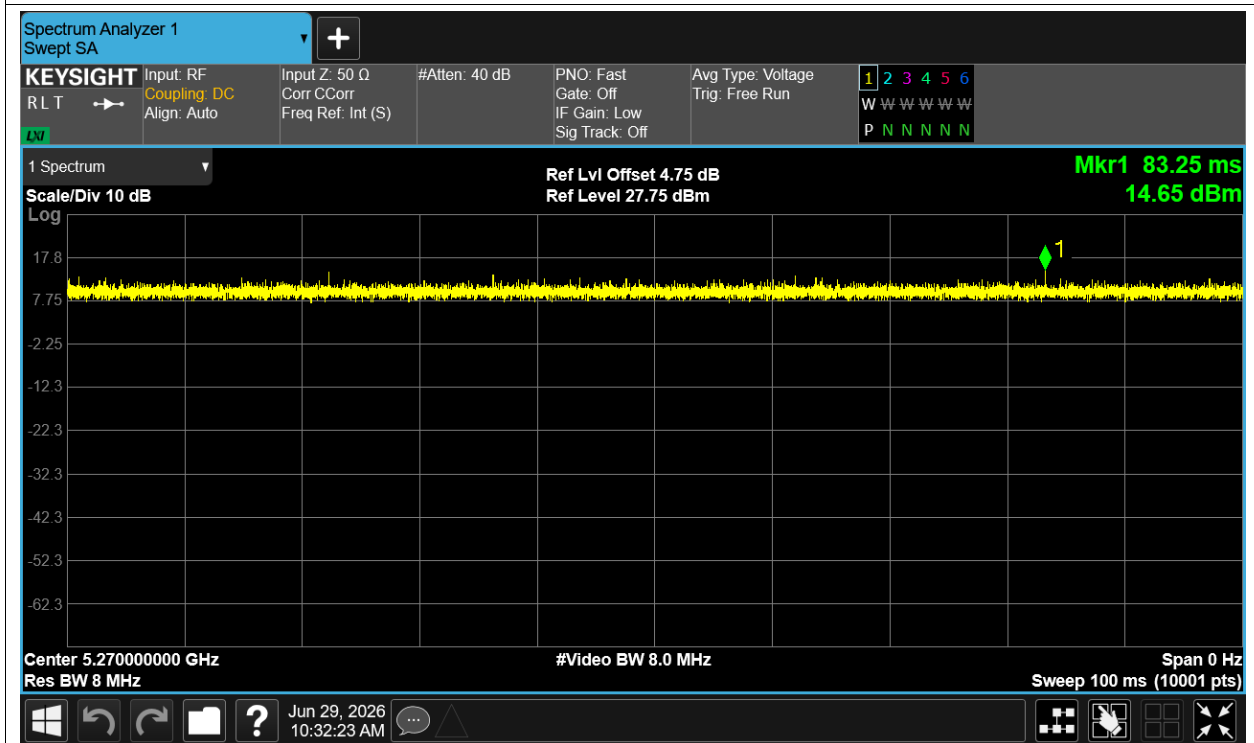
Duty Cycle NVNT n20 5280MHz Sum



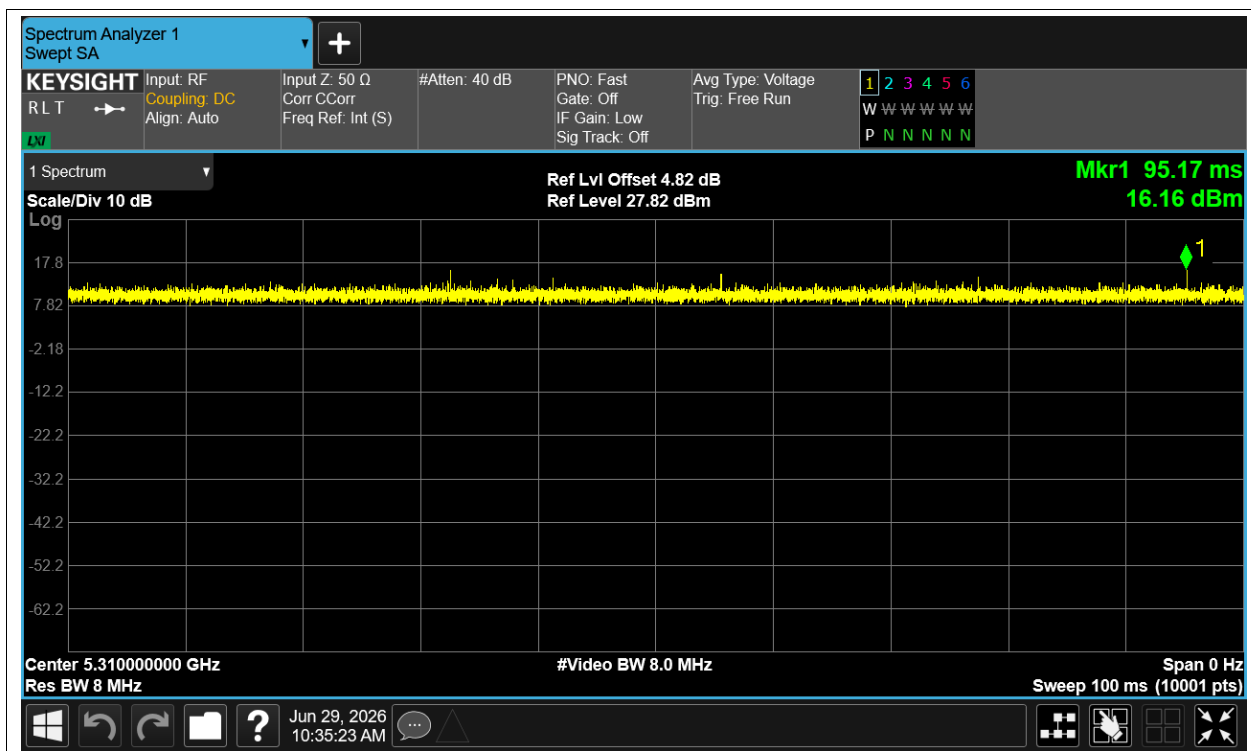
Duty Cycle NVNT n20 5320MHz Sum



Duty Cycle NVNT n40 5270MHz Sum



Duty Cycle NVNT n40 5310MHz Sum



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	15.05	0	15.05	24	Pass
NVNT	a	5280	Ant1	15.77	0	15.77	24	Pass
NVNT	a	5320	Ant1	15.98	0	15.98	24	Pass
NVNT	a	5260	Ant2	15.35	0	15.35	24	Pass
NVNT	a	5280	Ant2	15.69	0	15.69	24	Pass
NVNT	a	5320	Ant2	15.93	0	15.93	24	Pass
NVNT	ac20	5260	Ant1	13.68	0	13.68	22.46	Pass
NVNT	ac20	5260	Ant2	13.72	0	13.72	22.46	Pass
NVNT	ac20	5260	Sum	16.71	0	16.71	22.46	Pass
NVNT	ac20	5280	Ant1	13.54	0	13.54	22.46	Pass
NVNT	ac20	5280	Ant2	13.57	0	13.57	22.46	Pass
NVNT	ac20	5280	Sum	16.565	0	16.565	22.46	Pass
NVNT	ac20	5320	Ant1	13.64	0	13.64	22.46	Pass
NVNT	ac20	5320	Ant2	14	0	14	22.46	Pass
NVNT	ac20	5320	Sum	16.834	0	16.834	22.46	Pass
NVNT	ac40	5270	Ant1	9.01	0	9.01	22.46	Pass
NVNT	ac40	5270	Ant2	8.4	0	8.4	22.46	Pass
NVNT	ac40	5270	Sum	11.726	0	11.726	22.46	Pass
NVNT	ac40	5310	Ant1	8.97	0	8.97	22.46	Pass
NVNT	ac40	5310	Ant2	9.44	0	9.44	22.46	Pass
NVNT	ac40	5310	Sum	12.222	0	12.222	22.46	Pass
NVNT	ac80	5290	Ant1	11.37	0	11.37	22.46	Pass
NVNT	ac80	5290	Ant2	12.39	0	12.39	22.46	Pass
NVNT	ac80	5290	Sum	14.92	0	14.92	22.46	Pass
NVNT	n20	5260	Ant1	12.94	0	12.94	22.46	Pass
NVNT	n20	5260	Ant2	13.2	0	13.2	22.46	Pass
NVNT	n20	5260	Sum	16.082	0	16.082	22.46	Pass
NVNT	n20	5280	Ant1	14.5	0	14.5	22.46	Pass
NVNT	n20	5280	Ant2	14.66	0	14.66	22.46	Pass
NVNT	n20	5280	Sum	17.591	0	17.591	22.46	Pass
NVNT	n20	5320	Ant1	13.41	0	13.41	22.46	Pass
NVNT	n20	5320	Ant2	13.95	0	13.95	22.46	Pass
NVNT	n20	5320	Sum	16.699	0	16.699	22.46	Pass
NVNT	n40	5270	Ant1	9.06	0	9.06	22.46	Pass
NVNT	n40	5270	Ant2	8.23	0	8.23	22.46	Pass
NVNT	n40	5270	Sum	11.675	0	11.675	22.46	Pass
NVNT	n40	5310	Ant1	9.03	0	9.03	22.46	Pass
NVNT	n40	5310	Ant2	9.56	0	9.56	22.46	Pass
NVNT	n40	5310	Sum	12.313	0	12.313	22.46	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For MIMO mode: ant gain is $4.53+10*\log_{10}(2) = 4.53+3.01=7.54\text{dBi}$, the limit is $24-(7.54-6) = 22.46\text{dbm}$.

E.I.R.P Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Gain (dB)	Max E.I.R.P (dBm)	TPC Limit (dBm)	Verdict
NVNT	a	5260	Ant1	15.05	0	4.53	19.58	30	Pass
NVNT	a	5280	Ant1	15.77	0	4.53	20.3	30	Pass
NVNT	a	5320	Ant1	15.98	0	4.53	20.51	30	Pass
NVNT	a	5260	Ant2	15.35	0	4.53	19.88	30	Pass
NVNT	a	5280	Ant2	15.69	0	4.53	20.22	30	Pass
NVNT	a	5320	Ant2	15.93	0	4.53	20.46	30	Pass
NVNT	ac20	5260	Ant1	13.68	0	7.54	21.22	30	Pass
NVNT	ac20	5260	Ant2	13.72	0	7.54	21.26	30	Pass
NVNT	ac20	5260	Sum	16.71	0	7.54	24.25	30	Pass
NVNT	ac20	5280	Ant1	13.54	0	7.54	21.08	30	Pass
NVNT	ac20	5280	Ant2	13.57	0	7.54	21.11	30	Pass
NVNT	ac20	5280	Sum	16.565	0	7.54	24.105	30	Pass
NVNT	ac20	5320	Ant1	13.64	0	7.54	21.18	30	Pass
NVNT	ac20	5320	Ant2	14	0	7.54	21.54	30	Pass
NVNT	ac20	5320	Sum	16.834	0	7.54	24.374	30	Pass
NVNT	ac40	5270	Ant1	9.01	0	7.54	16.55	30	Pass
NVNT	ac40	5270	Ant2	8.4	0	7.54	15.94	30	Pass
NVNT	ac40	5270	Sum	11.726	0	7.54	19.266	30	Pass
NVNT	ac40	5310	Ant1	8.97	0	7.54	16.51	30	Pass
NVNT	ac40	5310	Ant2	9.44	0	7.54	16.98	30	Pass
NVNT	ac40	5310	Sum	12.222	0	7.54	19.762	30	Pass
NVNT	ac80	5290	Ant1	11.37	0	7.54	18.91	30	Pass
NVNT	ac80	5290	Ant2	12.39	0	7.54	19.93	30	Pass
NVNT	ac80	5290	Sum	14.92	0	7.54	22.46	30	Pass
NVNT	n20	5260	Ant1	12.94	0	7.54	20.48	30	Pass
NVNT	n20	5260	Ant2	13.2	0	7.54	20.74	30	Pass
NVNT	n20	5260	Sum	16.082	0	7.54	23.622	30	Pass
NVNT	n20	5280	Ant1	14.5	0	7.54	22.04	30	Pass
NVNT	n20	5280	Ant2	14.66	0	7.54	22.2	30	Pass
NVNT	n20	5280	Sum	17.591	0	7.54	25.131	30	Pass
NVNT	n20	5320	Ant1	13.41	0	7.54	20.95	30	Pass
NVNT	n20	5320	Ant2	13.95	0	7.54	21.49	30	Pass
NVNT	n20	5320	Sum	16.699	0	7.54	24.239	30	Pass
NVNT	n40	5270	Ant1	9.06	0	7.54	16.6	30	Pass
NVNT	n40	5270	Ant2	8.23	0	7.54	15.77	30	Pass
NVNT	n40	5270	Sum	11.675	0	7.54	19.215	30	Pass
NVNT	n40	5310	Ant1	9.03	0	7.54	16.57	30	Pass
NVNT	n40	5310	Ant2	9.56	0	7.54	17.1	30	Pass
NVNT	n40	5310	Sum	12.313	0	7.54	19.853	30	Pass

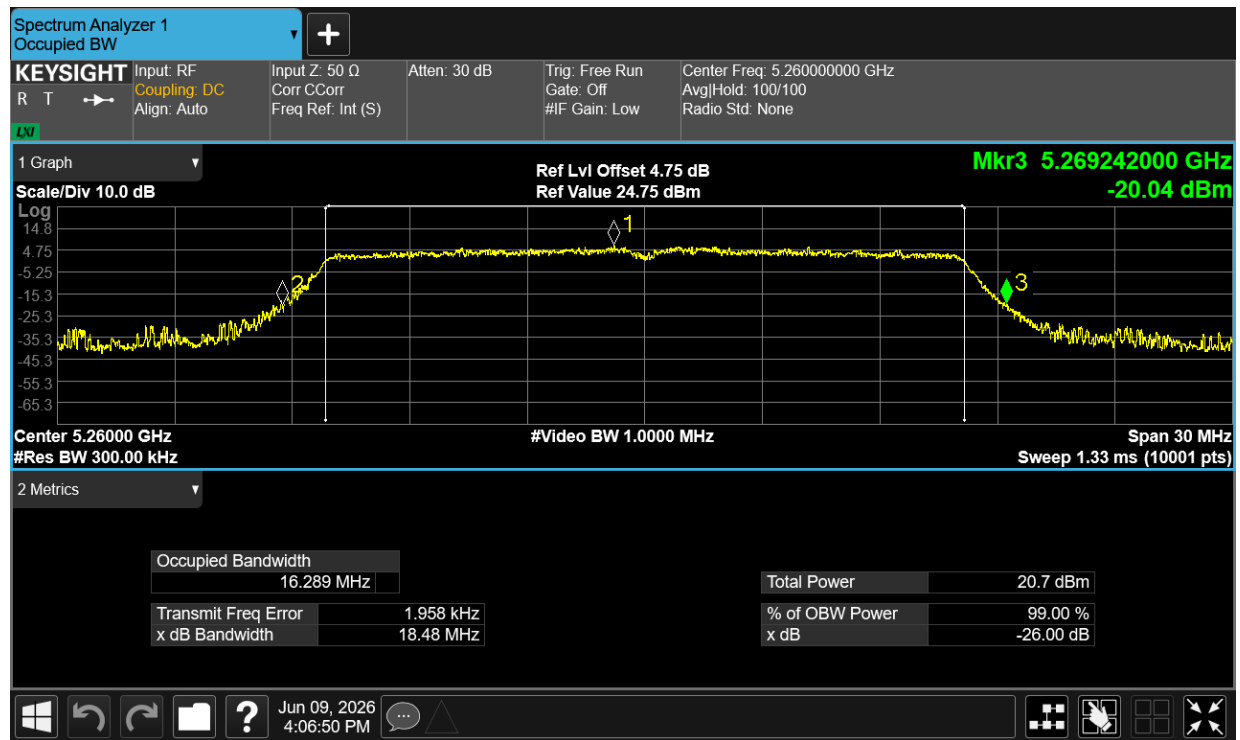
For MIMO mode: ant gain is $4.53+10*\log_{10}(2) = 4.53+3.01=7.54\text{dBi}$.

-26dB Bandwidth

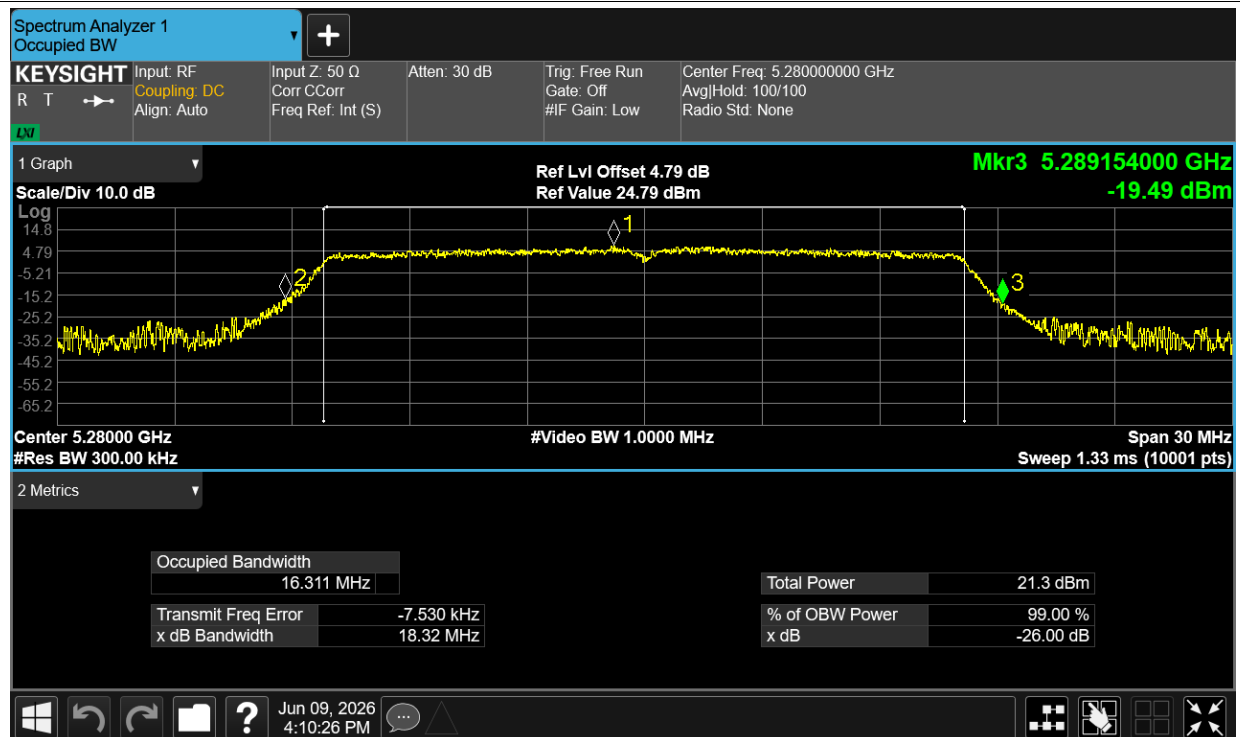
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	18.479
NVNT	a	5280	Ant1	18.323
NVNT	a	5320	Ant1	18.523
NVNT	a	5260	Ant2	18.323
NVNT	a	5280	Ant2	18.389
NVNT	a	5320	Ant2	18.47
NVNT	ac20	5260	Ant1	19.477
NVNT	ac20	5260	Ant2	19.4
NVNT	ac20	5280	Ant1	19.355
NVNT	ac20	5280	Ant2	19.348
NVNT	ac20	5320	Ant1	19.39
NVNT	ac20	5320	Ant2	19.478
NVNT	ac40	5270	Ant1	38.546
NVNT	ac40	5270	Ant2	38.342
NVNT	ac40	5310	Ant1	38.555
NVNT	ac40	5310	Ant2	38.506
NVNT	ac80	5290	Ant1	79.19
NVNT	ac80	5290	Ant2	79.29
NVNT	n20	5260	Ant1	19.355
NVNT	n20	5260	Ant2	19.35
NVNT	n20	5280	Ant1	19.31
NVNT	n20	5280	Ant2	19.277
NVNT	n20	5320	Ant1	19.425
NVNT	n20	5320	Ant2	19.379
NVNT	n40	5270	Ant1	38.6
NVNT	n40	5270	Ant2	38.261
NVNT	n40	5310	Ant1	38.504
NVNT	n40	5310	Ant2	38.527

Test Graphs

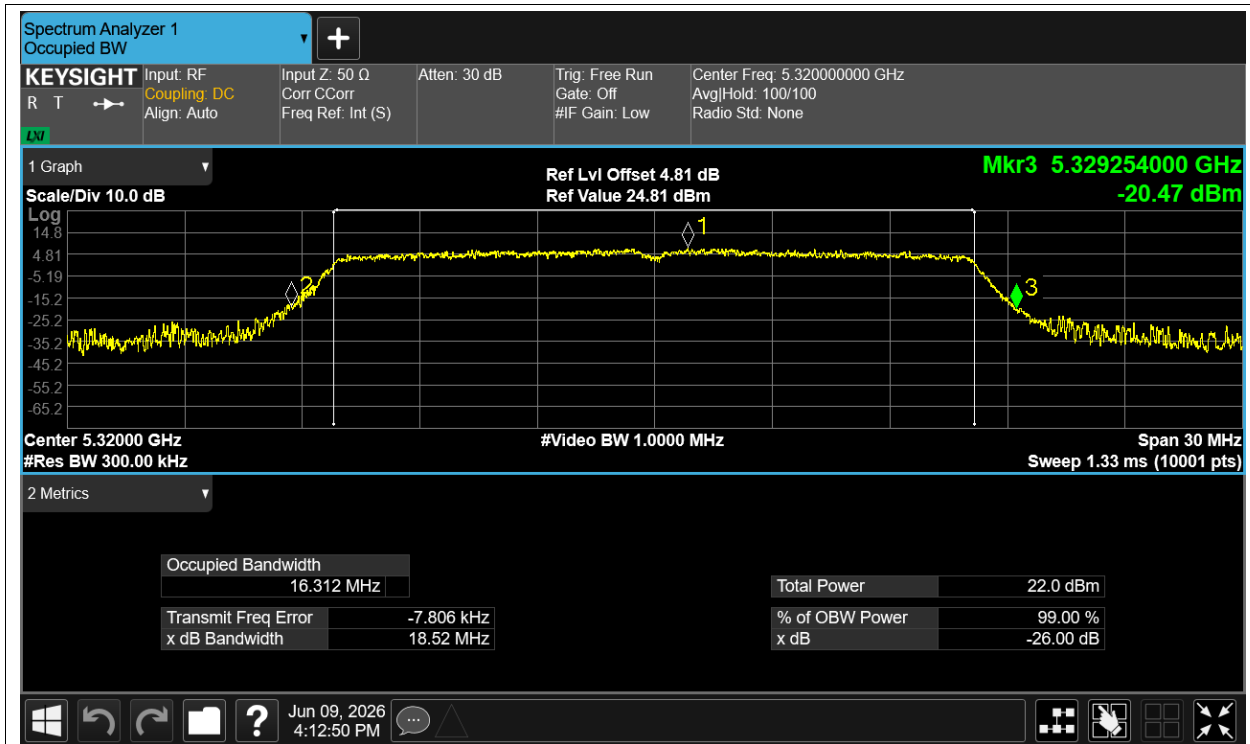
-26dB Bandwidth NVNT a 5260MHz Ant1



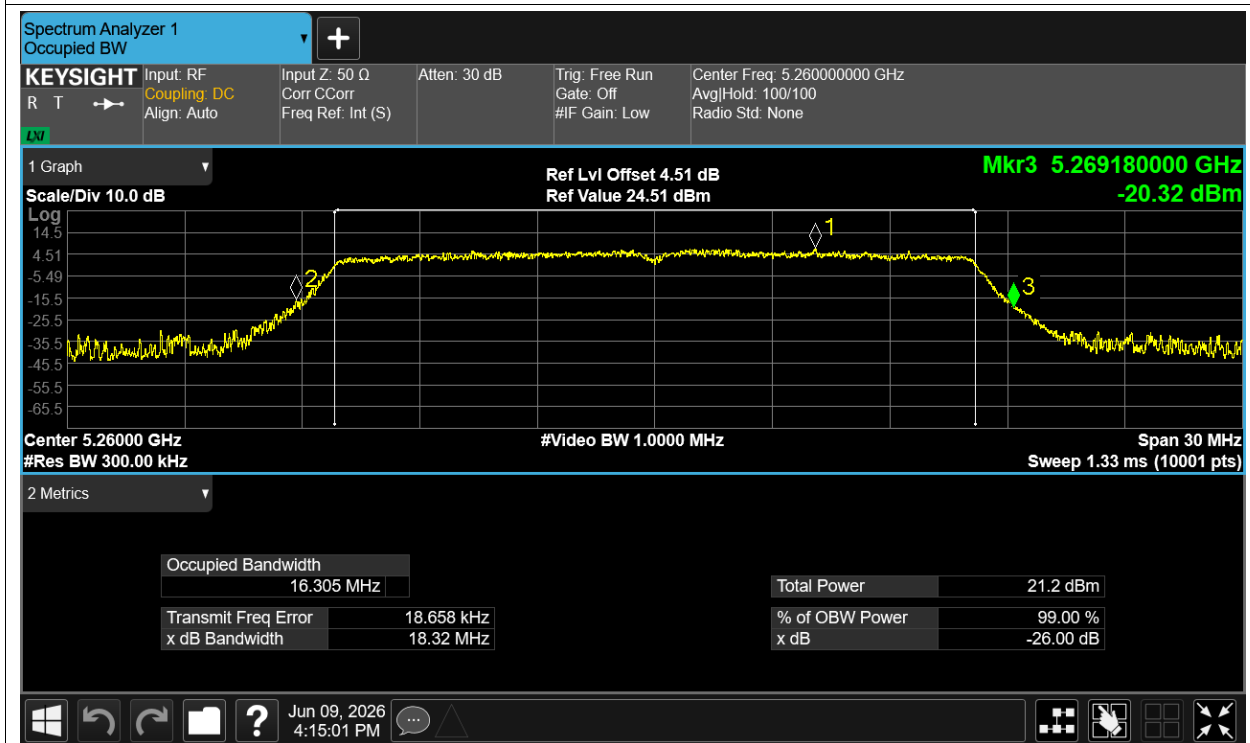
-26dB Bandwidth NVNT a 5280MHz Ant1



-26dB Bandwidth NVNT a 5320MHz Ant1



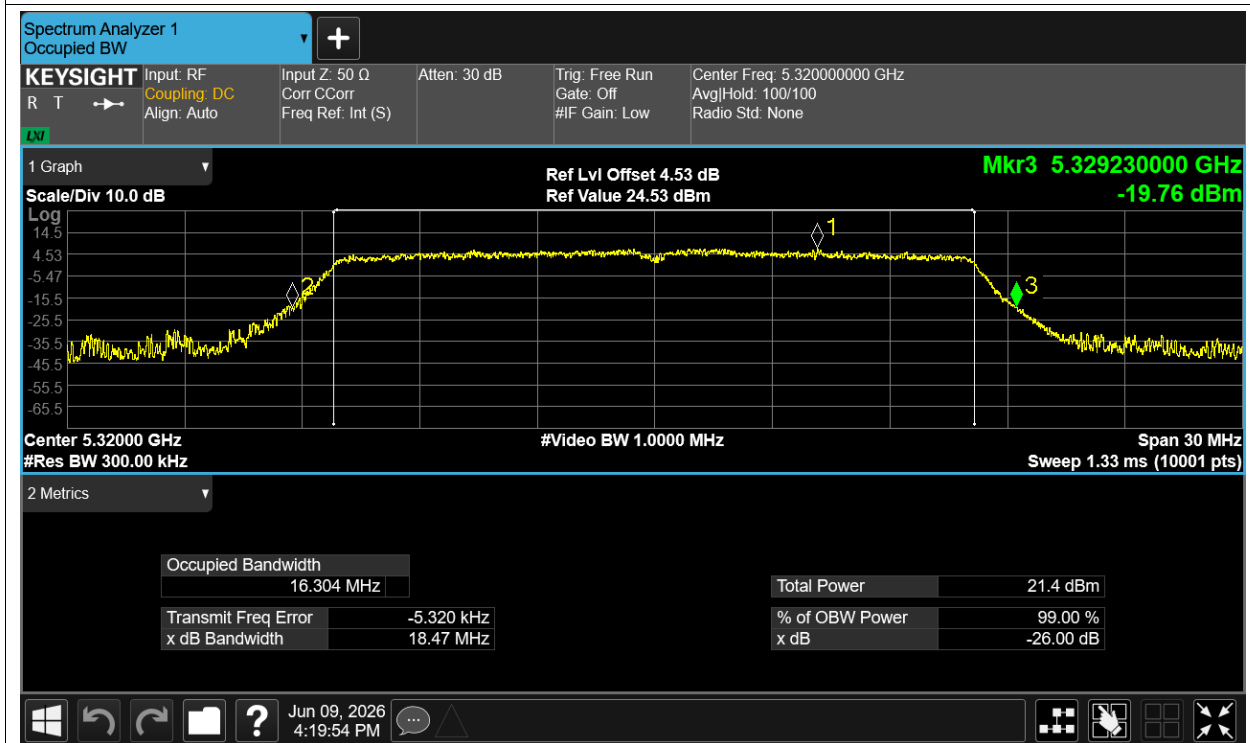
-26dB Bandwidth NVNT a 5260MHz Ant2



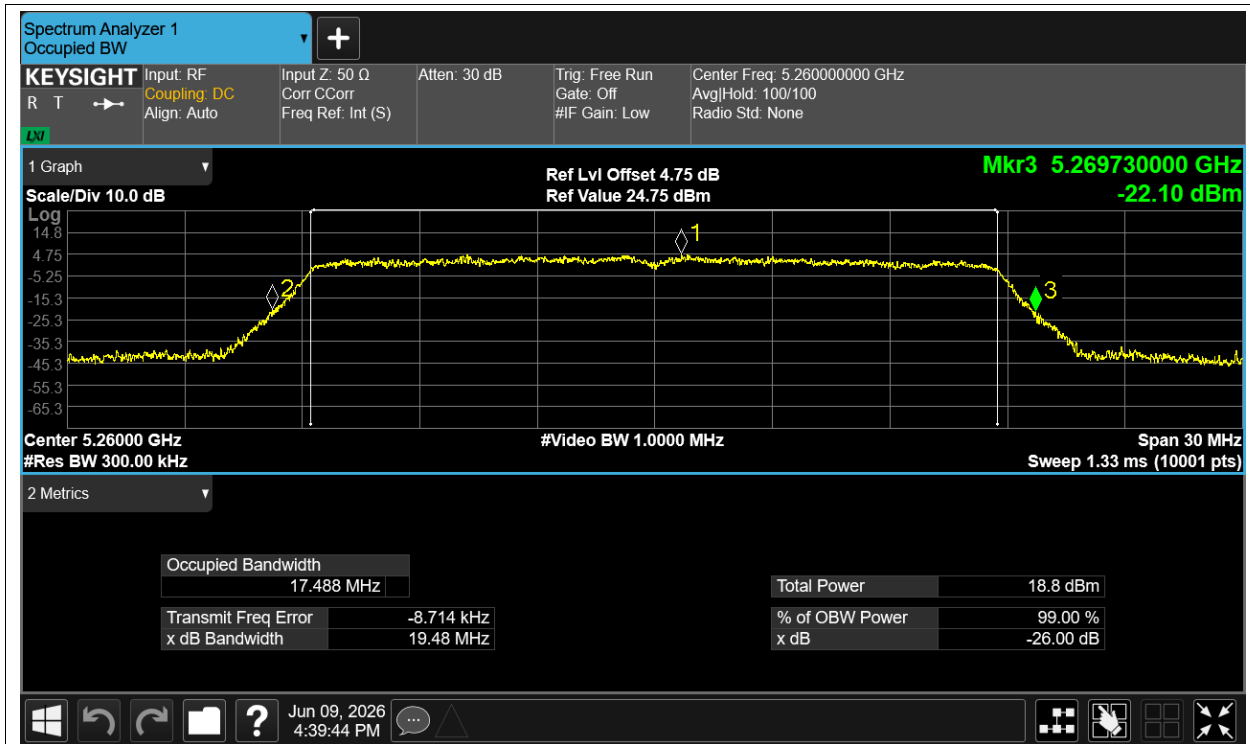
-26dB Bandwidth NVNT a 5280MHz Ant2



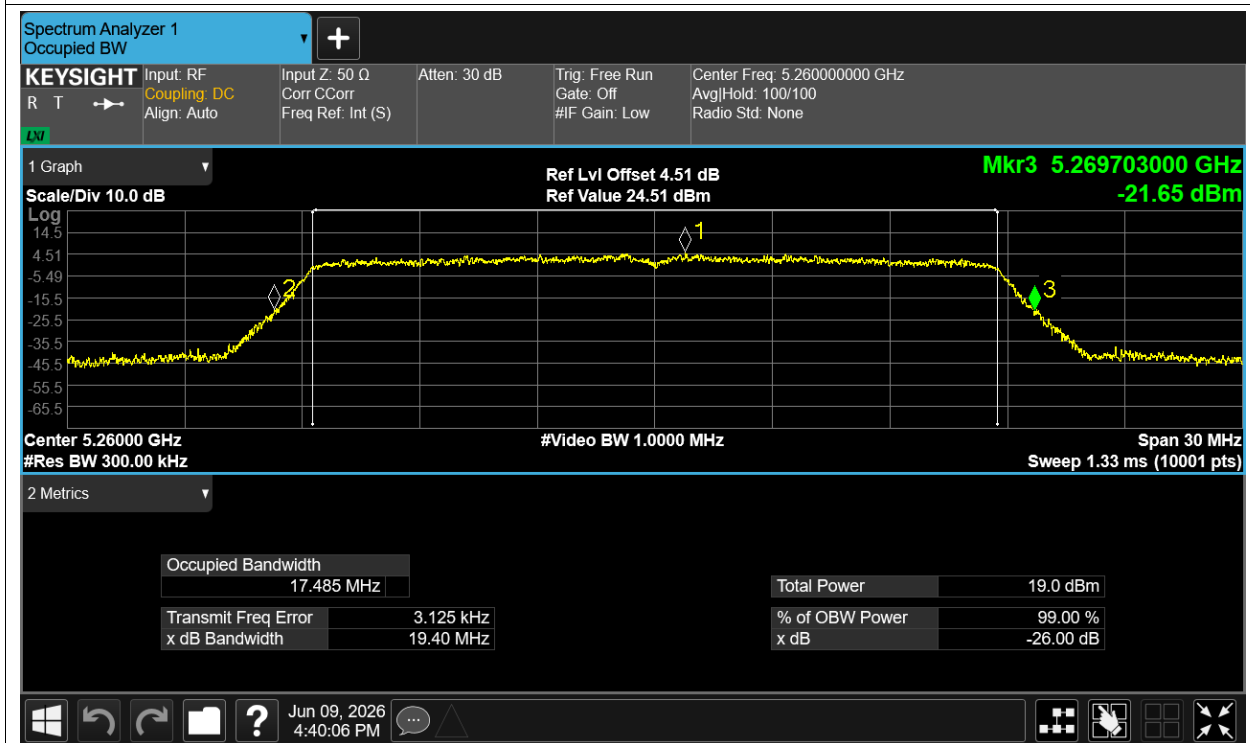
-26dB Bandwidth NVNT a 5320MHz Ant2



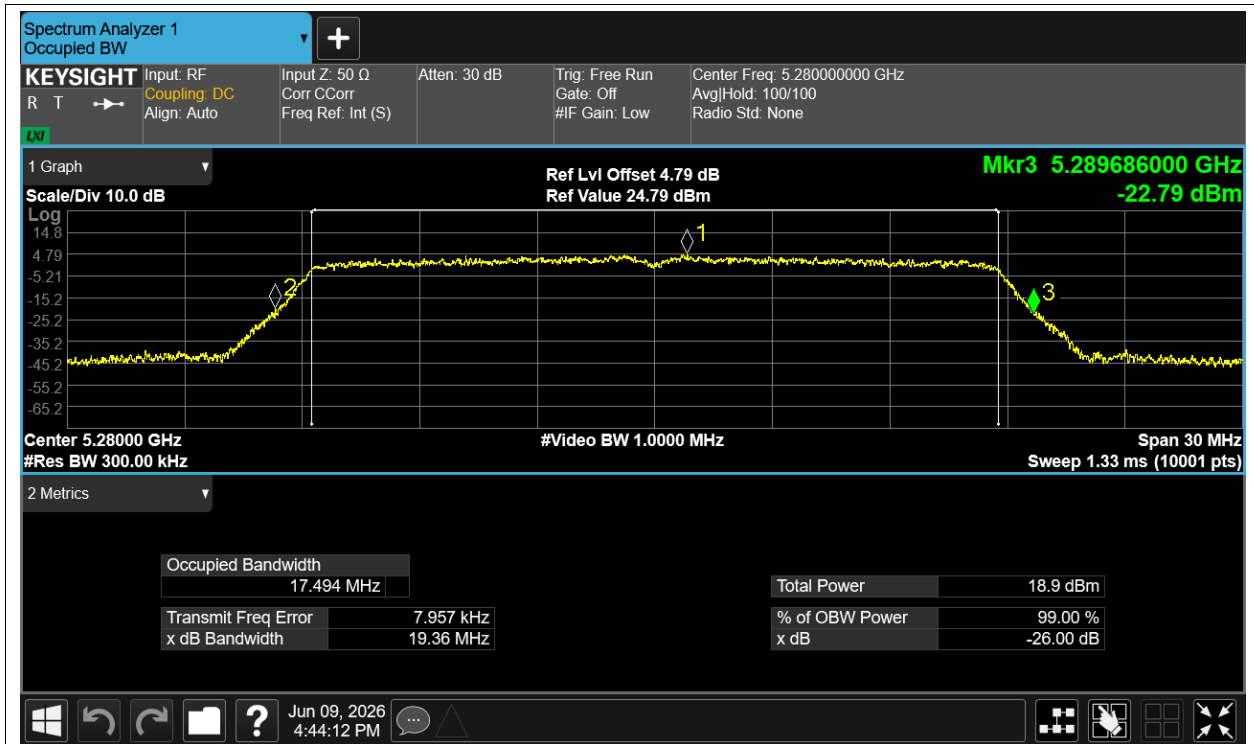
-26dB Bandwidth NVNT ac20 5260MHz Ant1



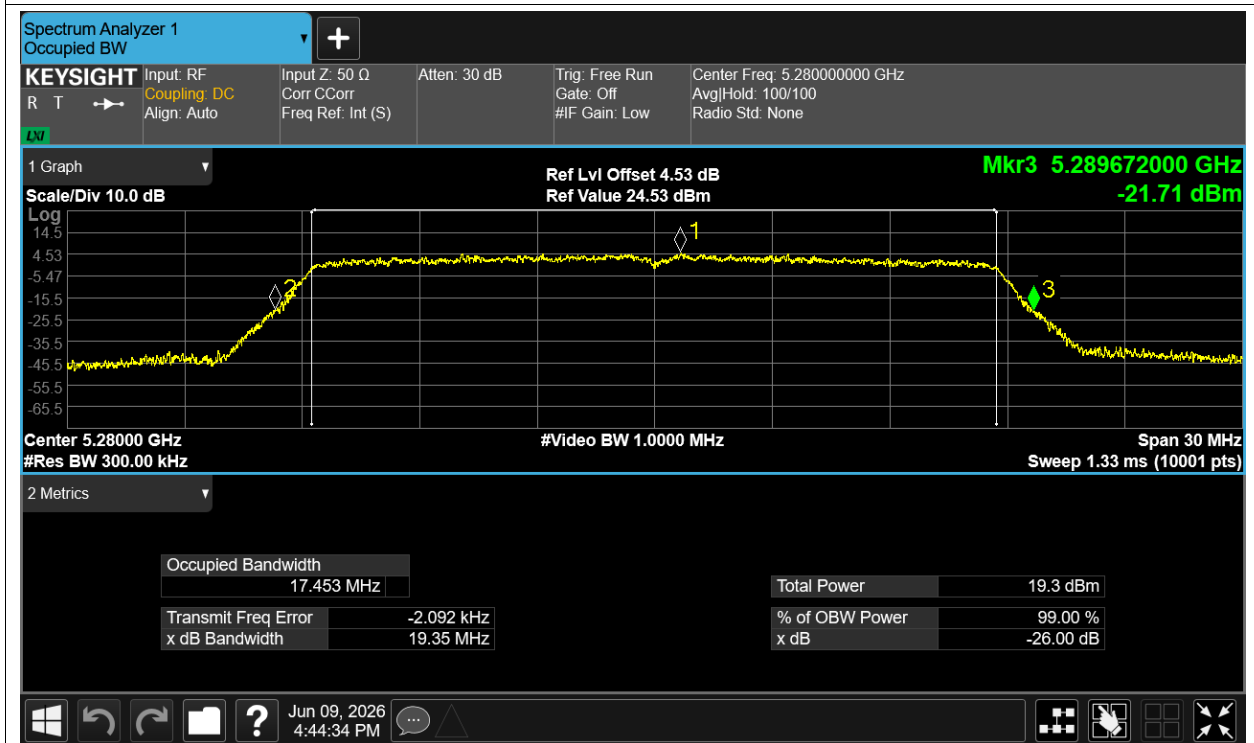
-26dB Bandwidth NVNT ac20 5260MHz Ant2



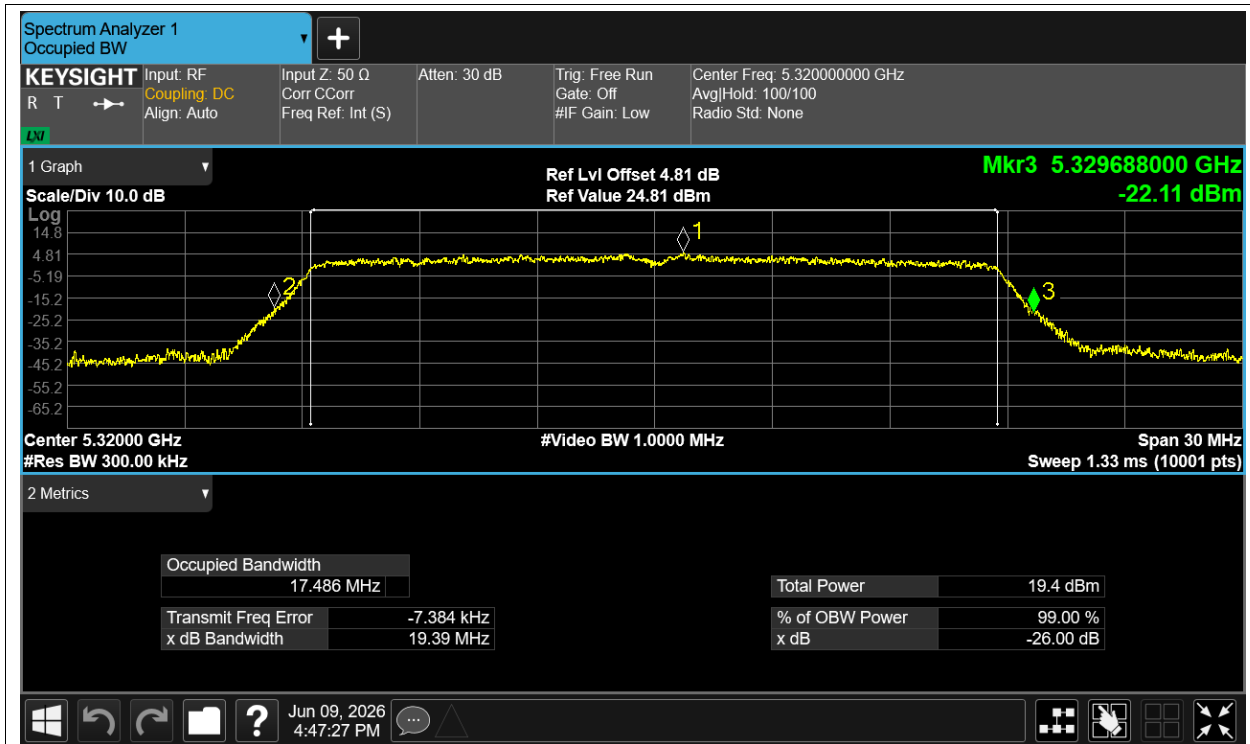
-26dB Bandwidth NVNT ac20 5280MHz Ant1



-26dB Bandwidth NVNT ac20 5280MHz Ant2



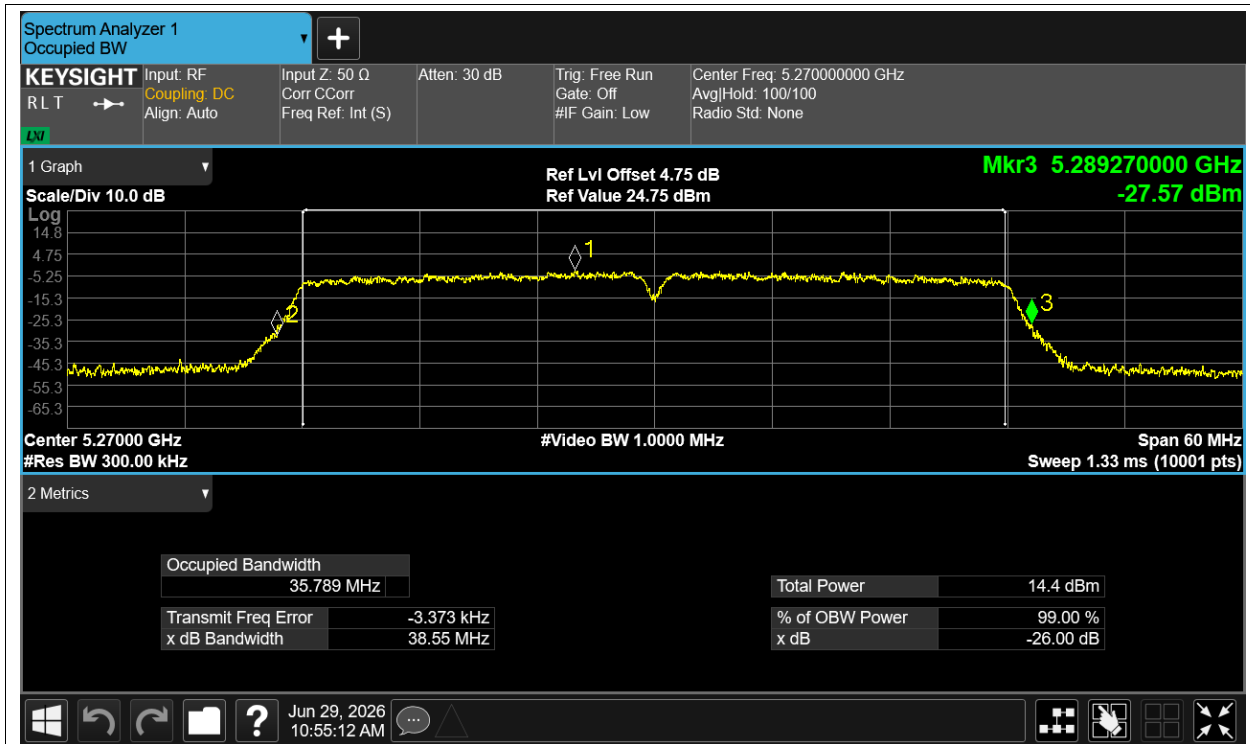
-26dB Bandwidth NVNT ac20 5320MHz Ant1



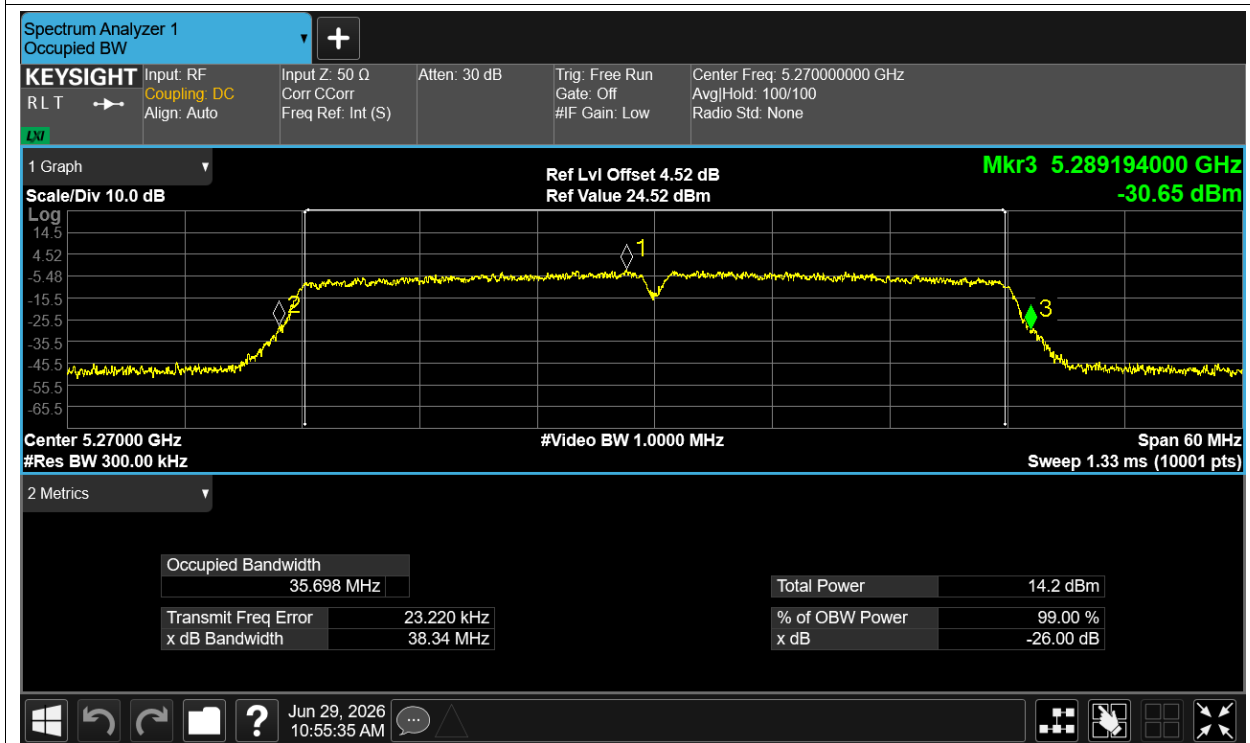
-26dB Bandwidth NVNT ac20 5320MHz Ant2



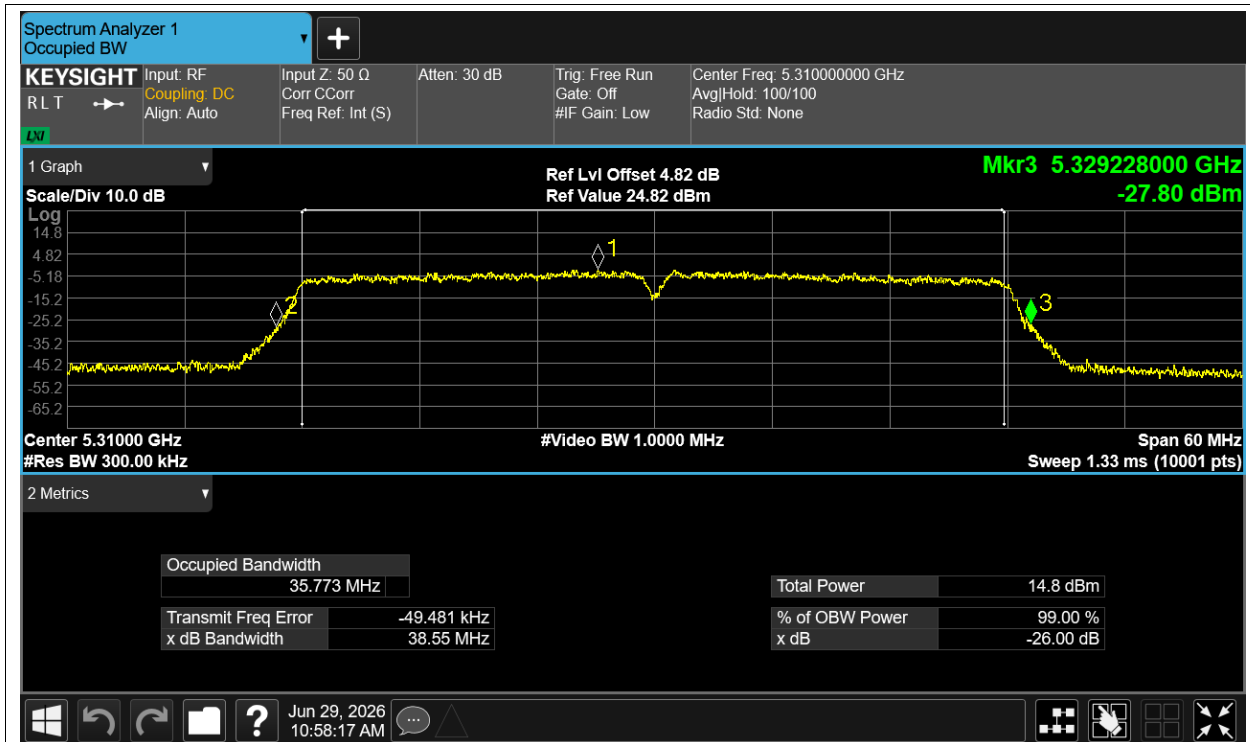
-26dB Bandwidth NVNT ac40 5270MHz Ant1



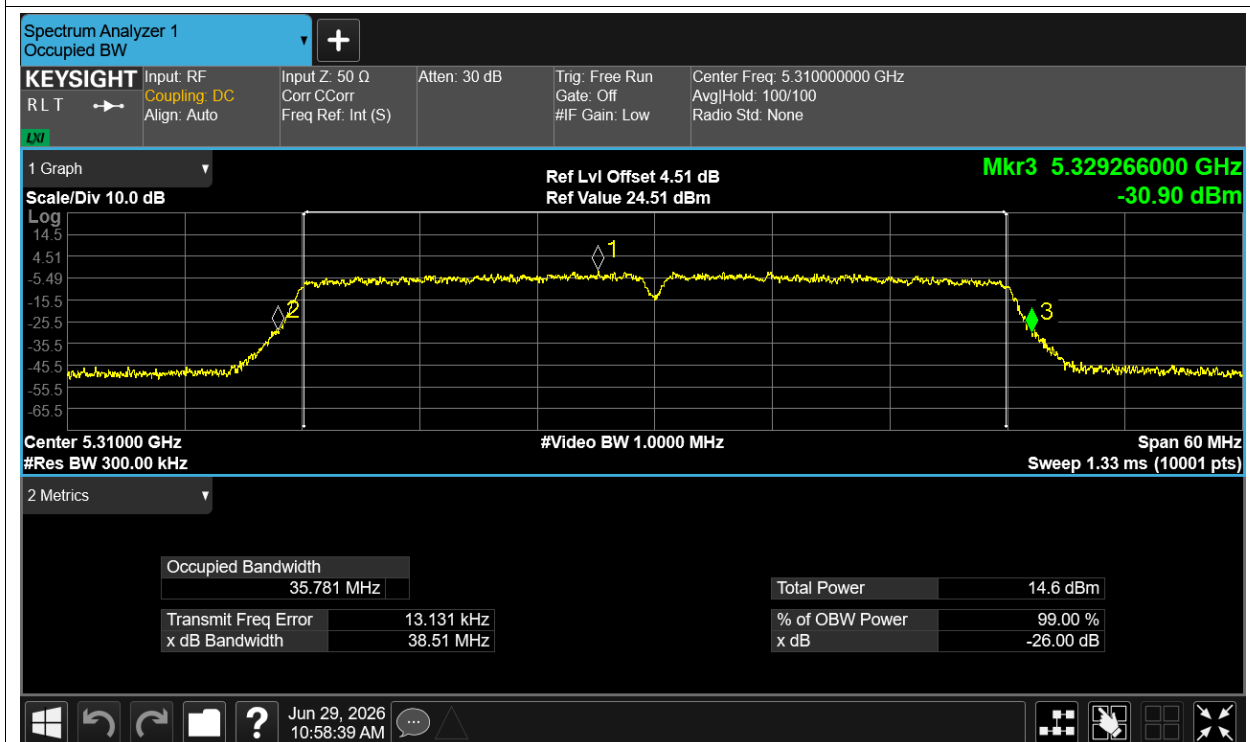
-26dB Bandwidth NVNT ac40 5270MHz Ant2



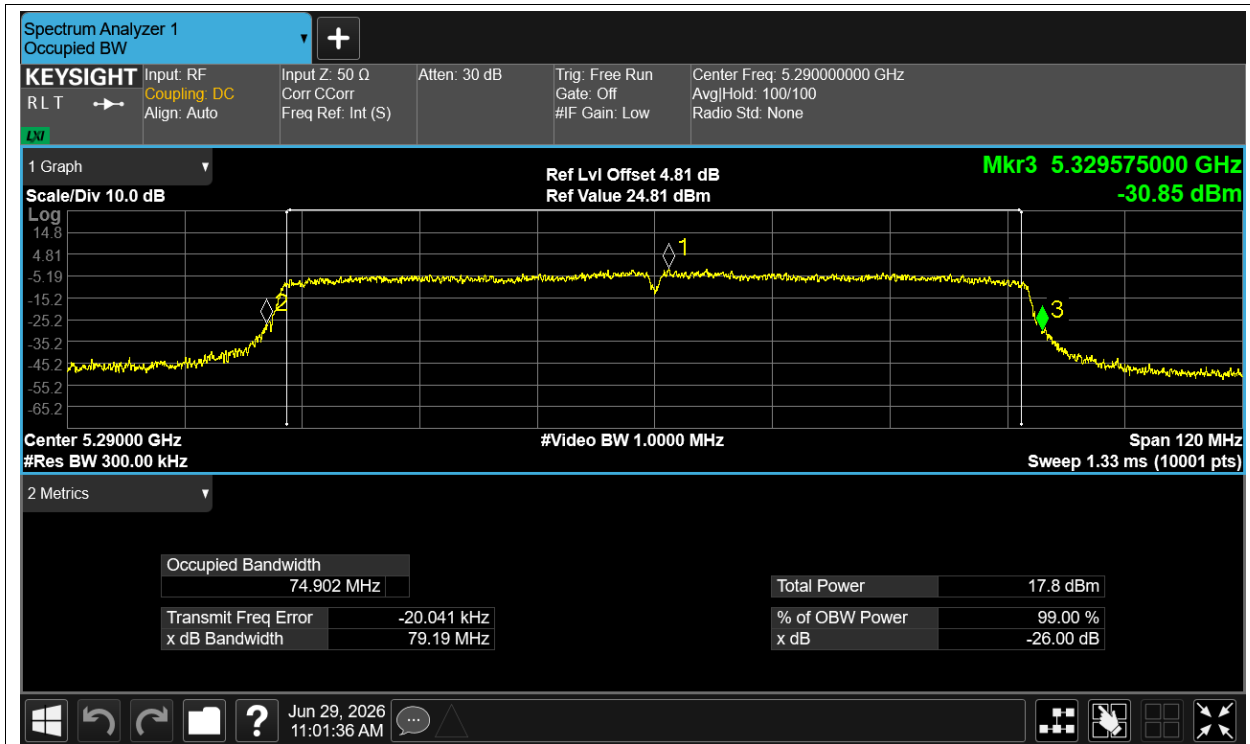
-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant2



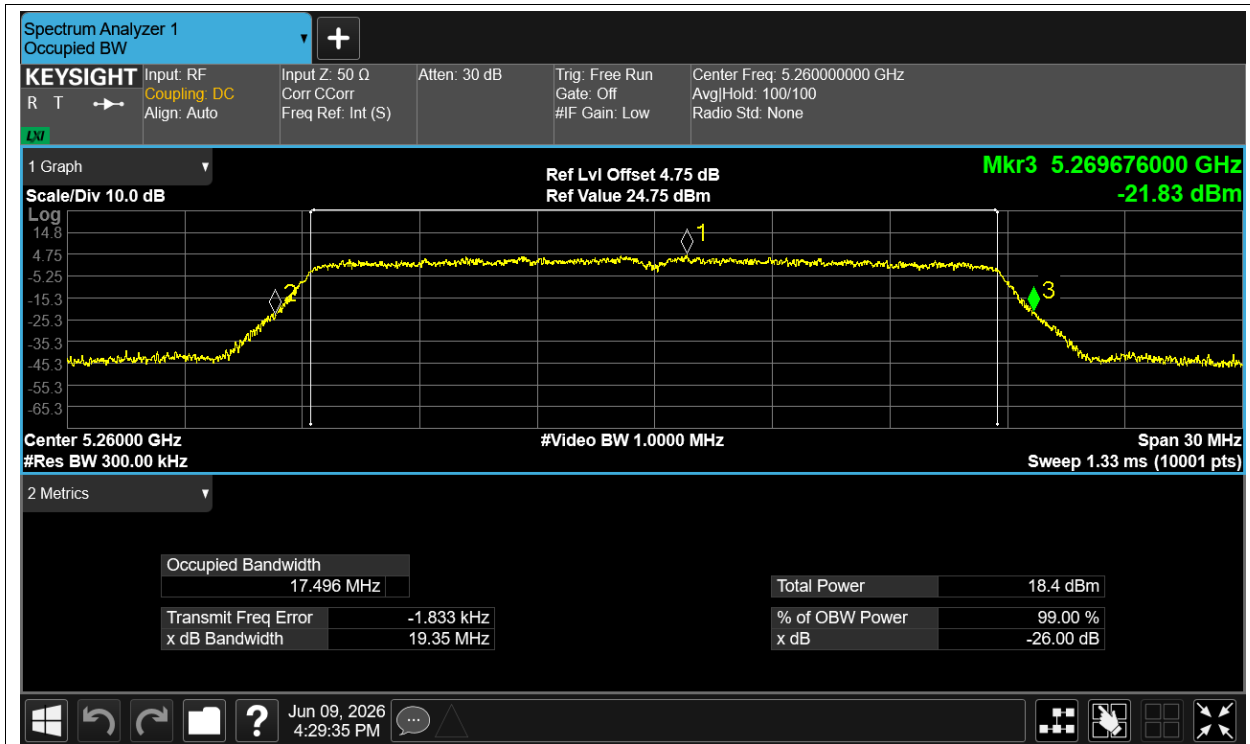
-26dB Bandwidth NVNT ac80 5290MHz Ant1



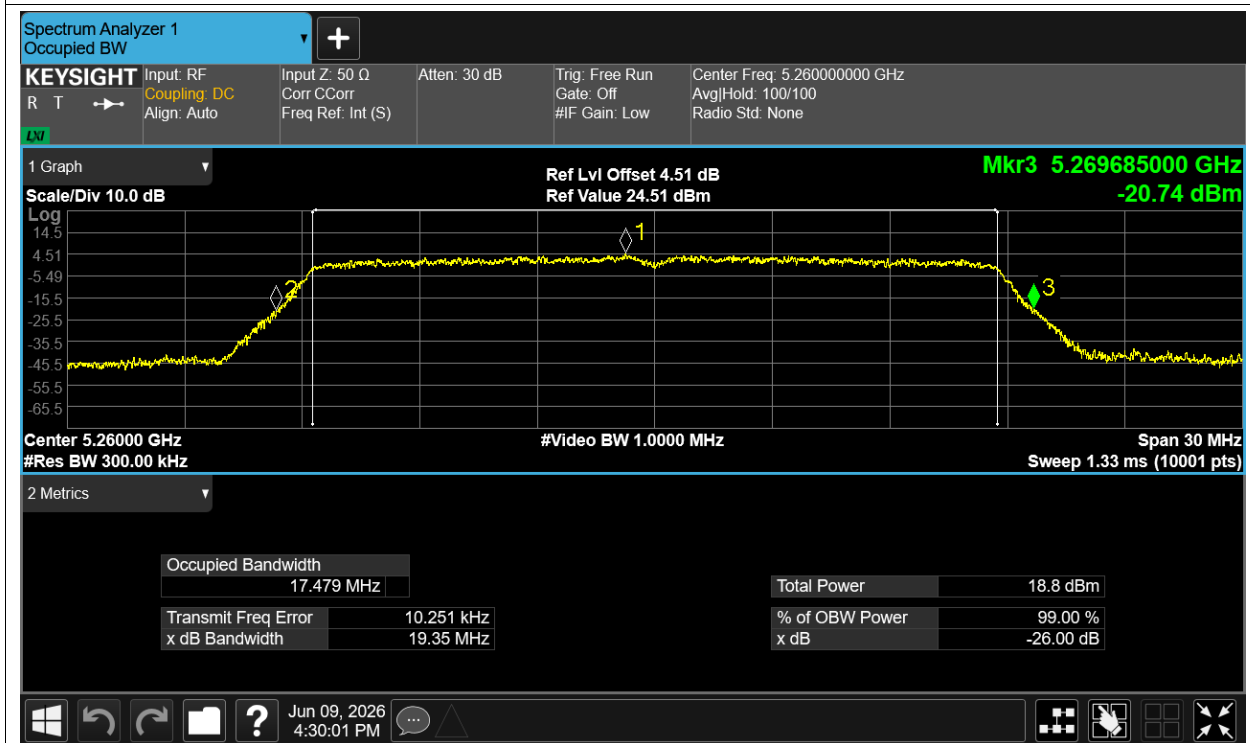
-26dB Bandwidth NVNT ac80 5290MHz Ant2



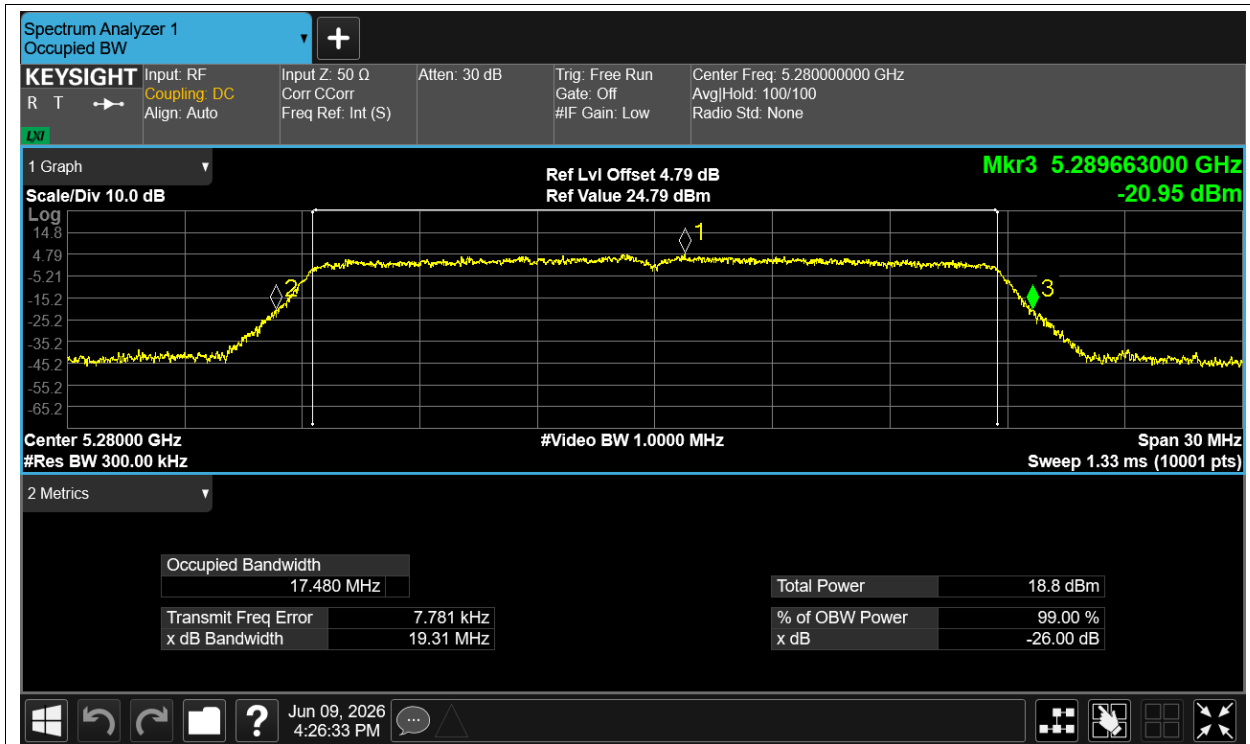
-26dB Bandwidth NVNT n20 5260MHz Ant1



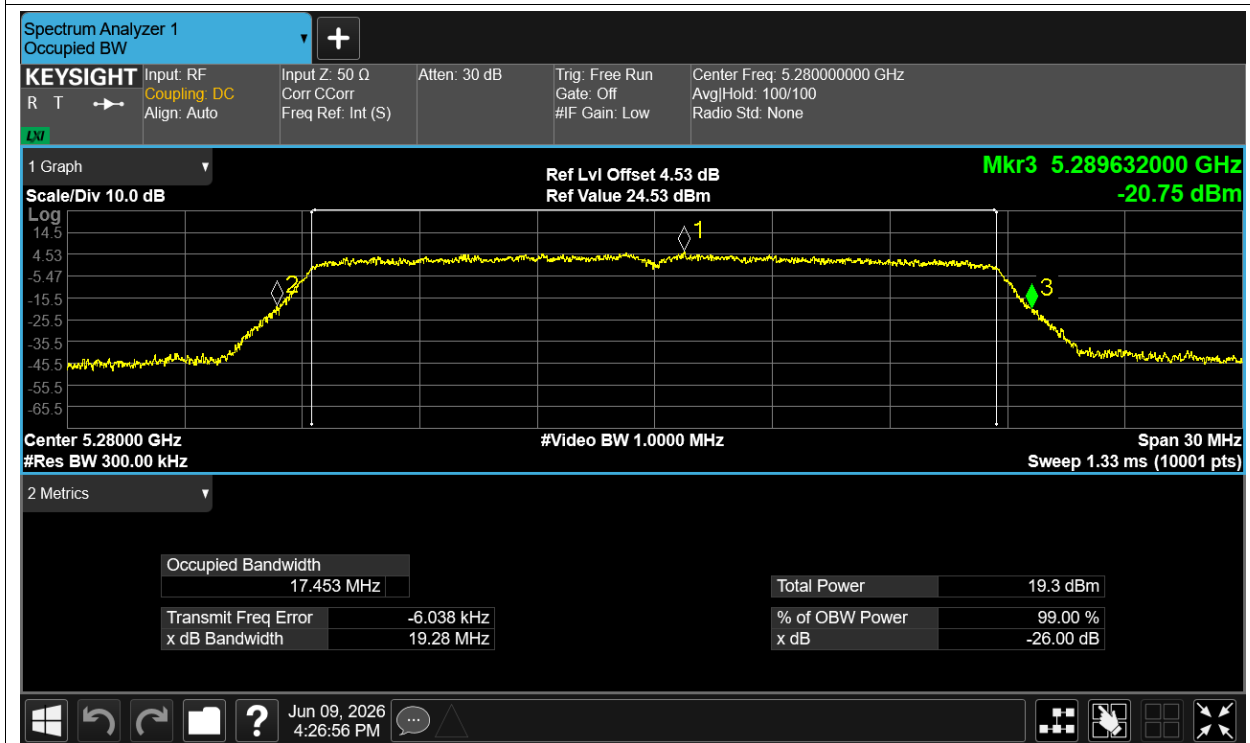
-26dB Bandwidth NVNT n20 5260MHz Ant2



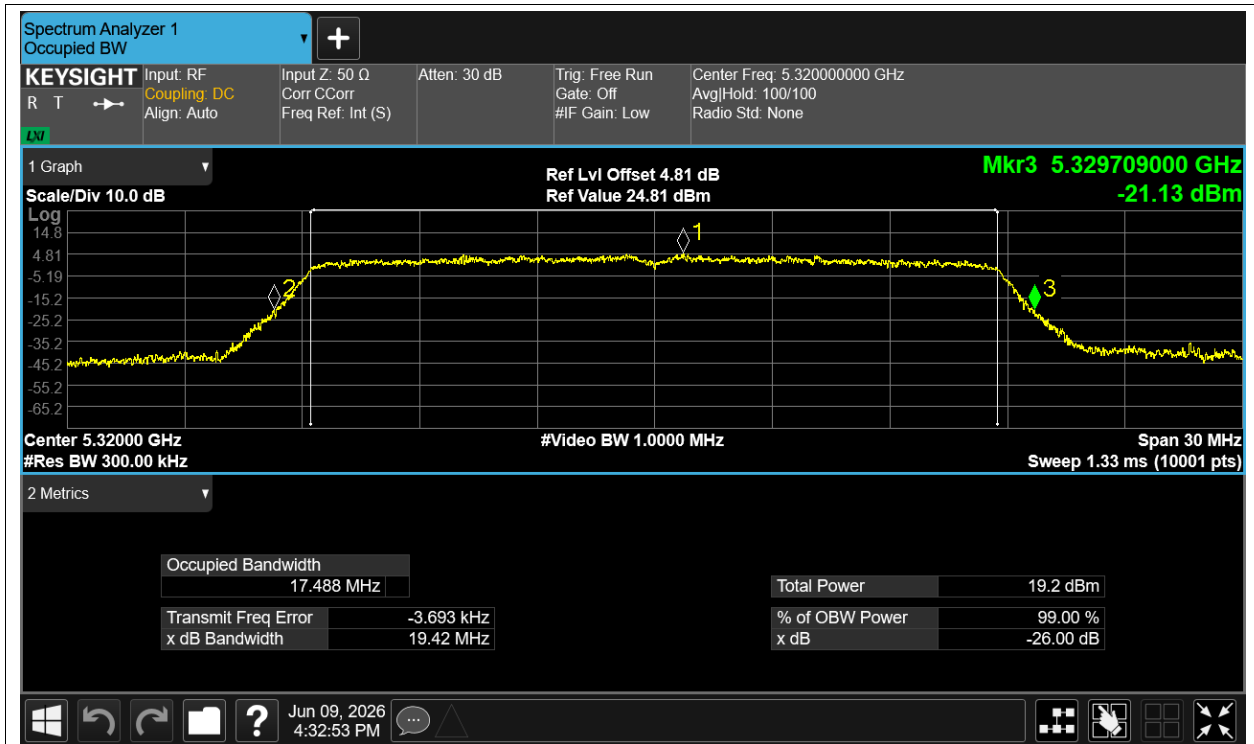
-26dB Bandwidth NVNT n20 5280MHz Ant1



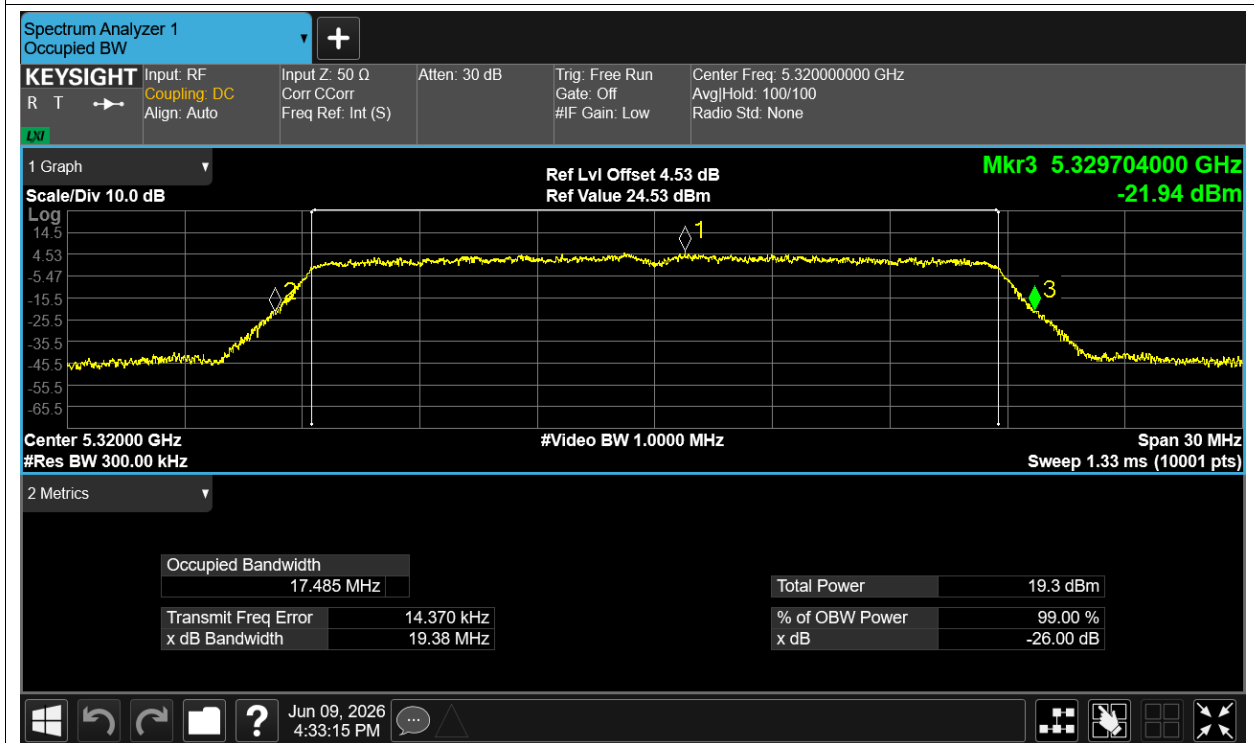
-26dB Bandwidth NVNT n20 5280MHz Ant2



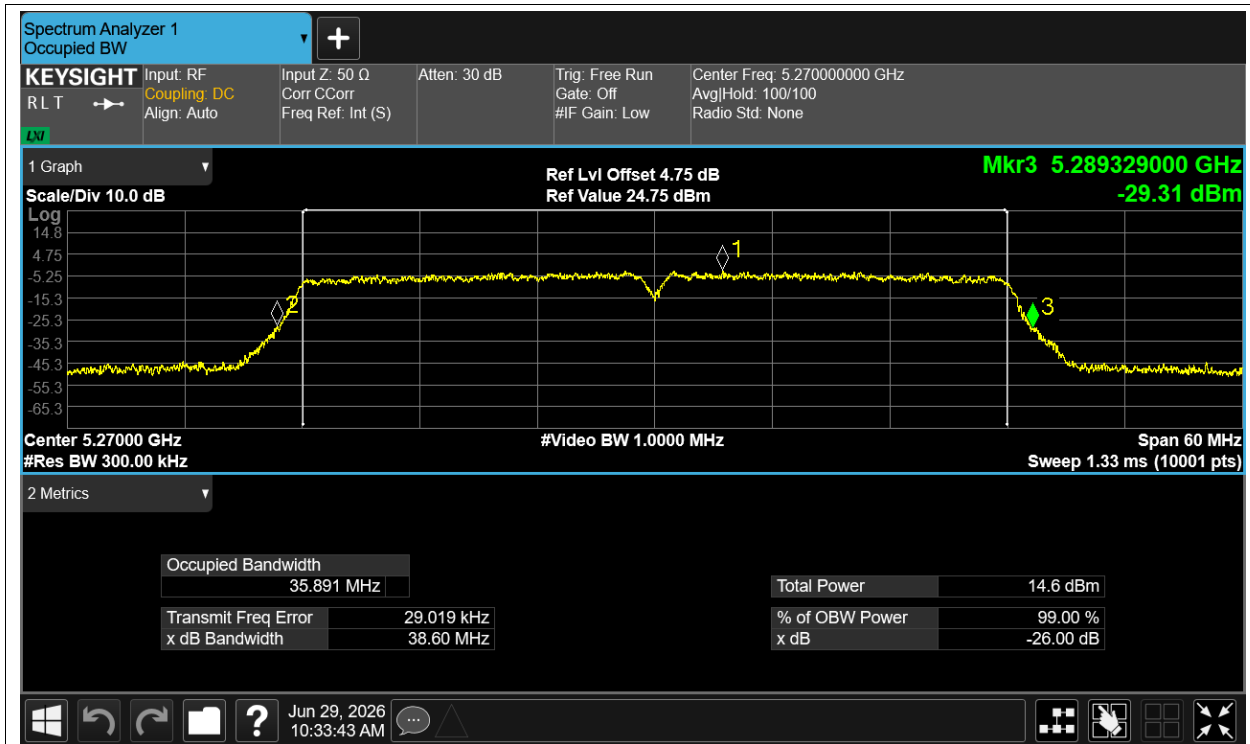
-26dB Bandwidth NVNT n20 5320MHz Ant1



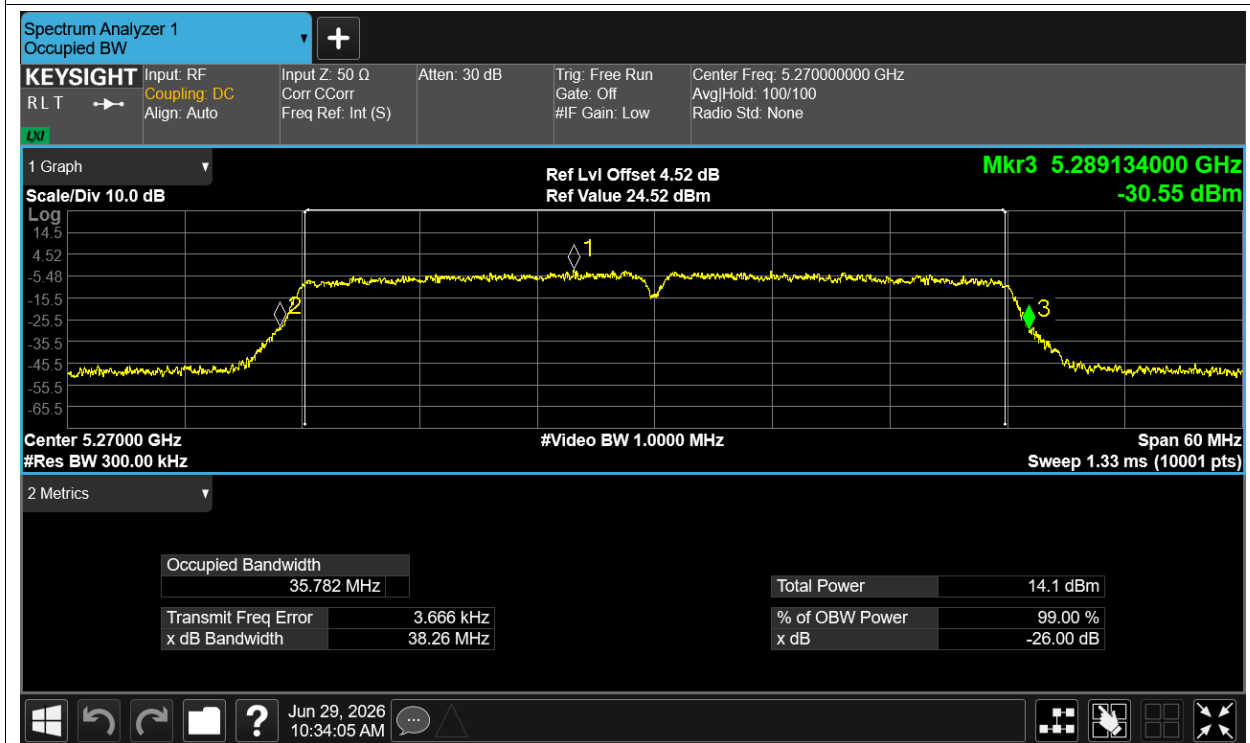
-26dB Bandwidth NVNT n20 5320MHz Ant2



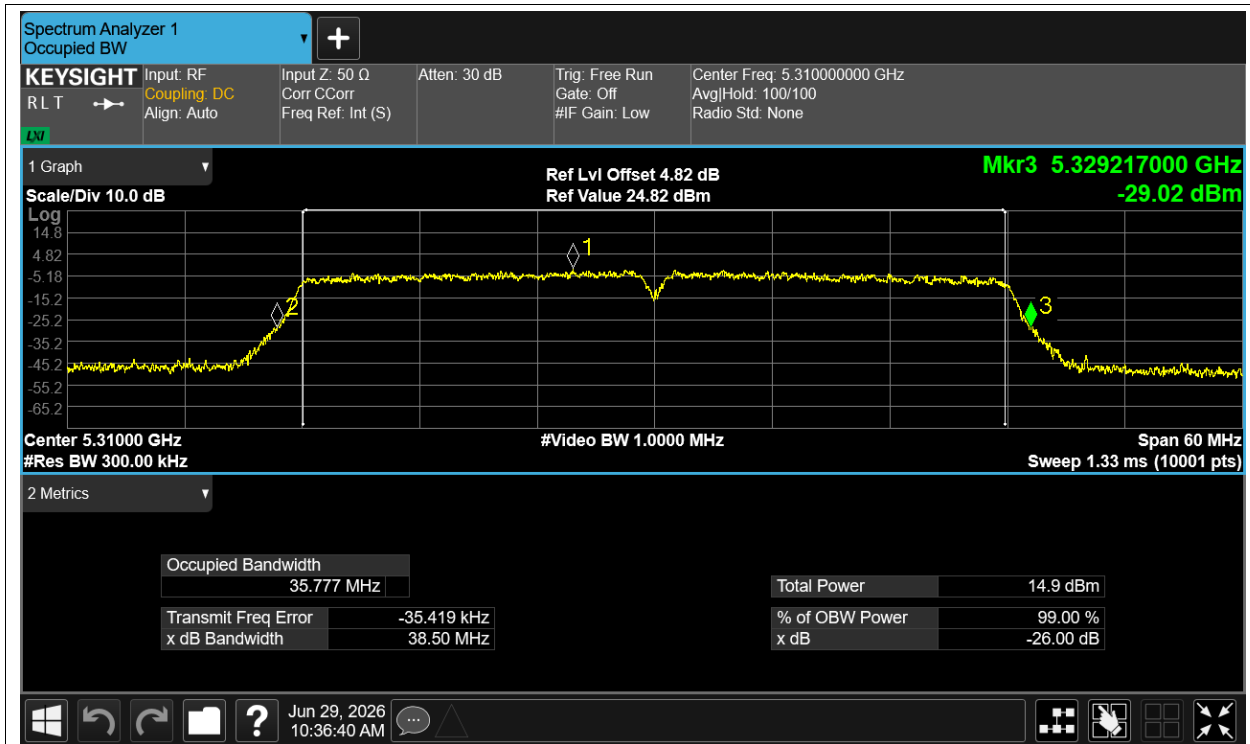
-26dB Bandwidth NVNT n40 5270MHz Ant1



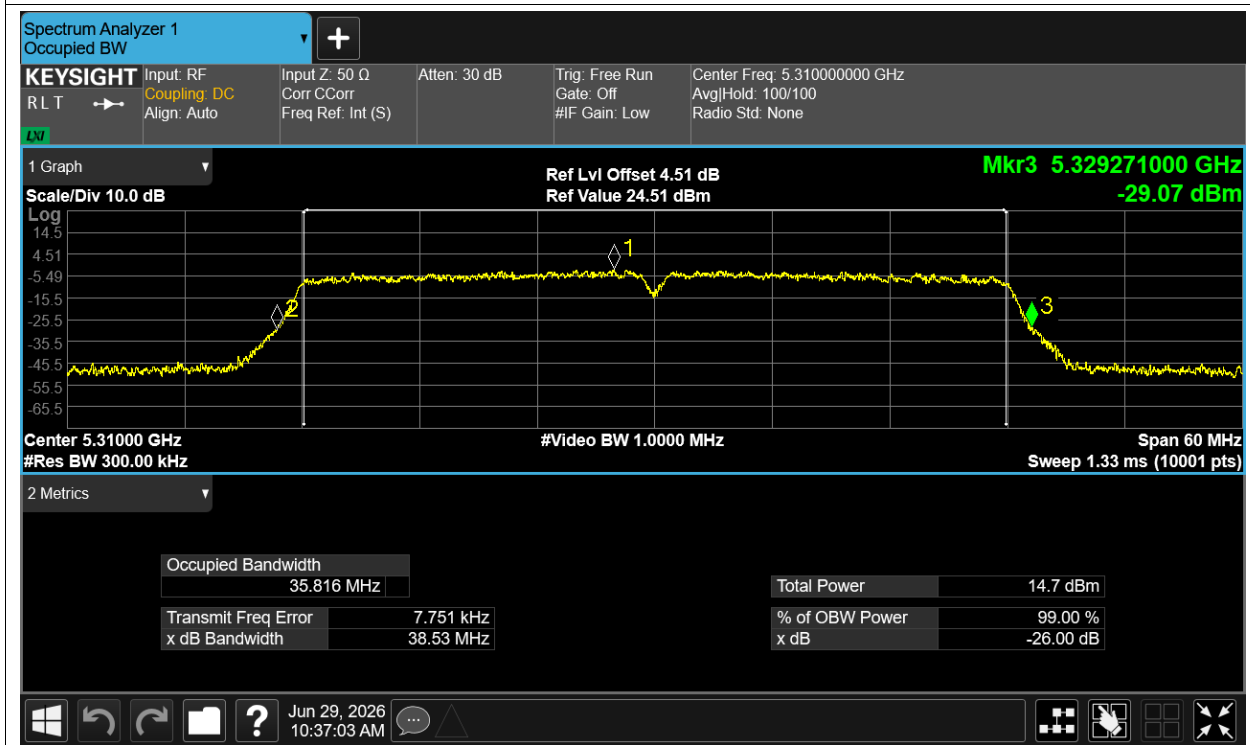
-26dB Bandwidth NVNT n40 5270MHz Ant2



-26dB Bandwidth NVNT n40 5310MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant2

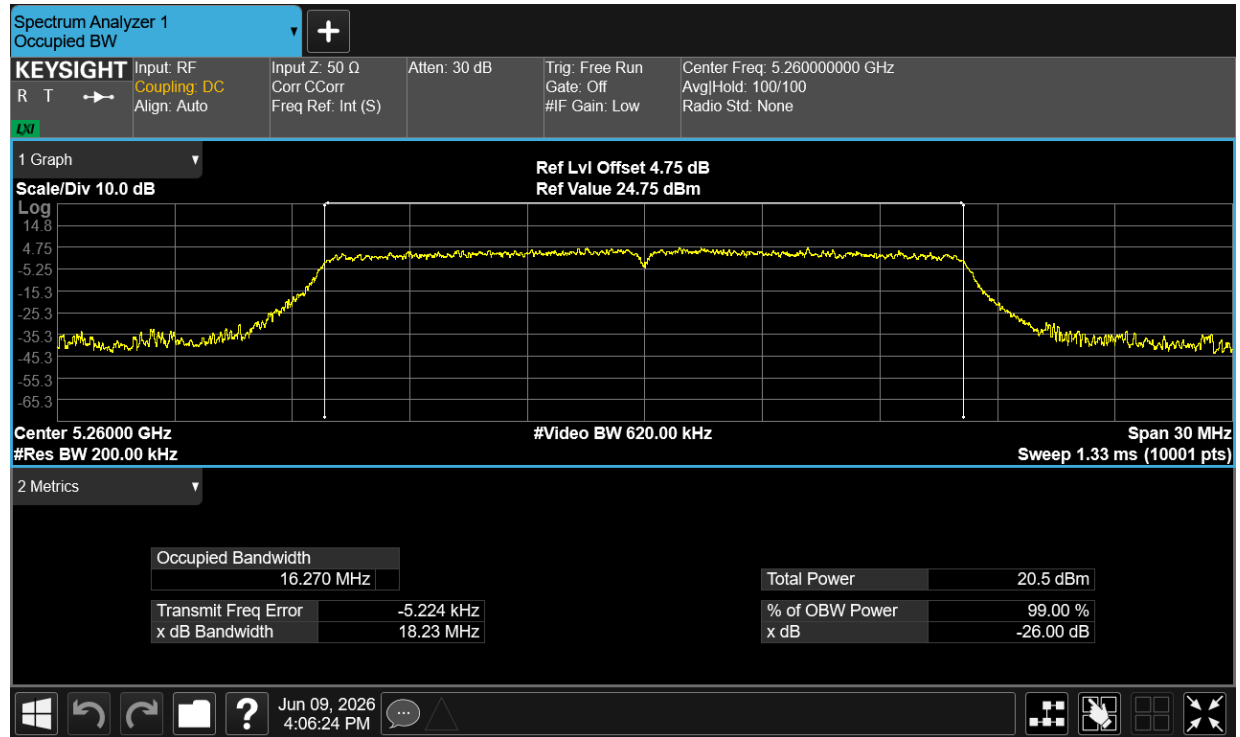


Occupied Channel Bandwidth

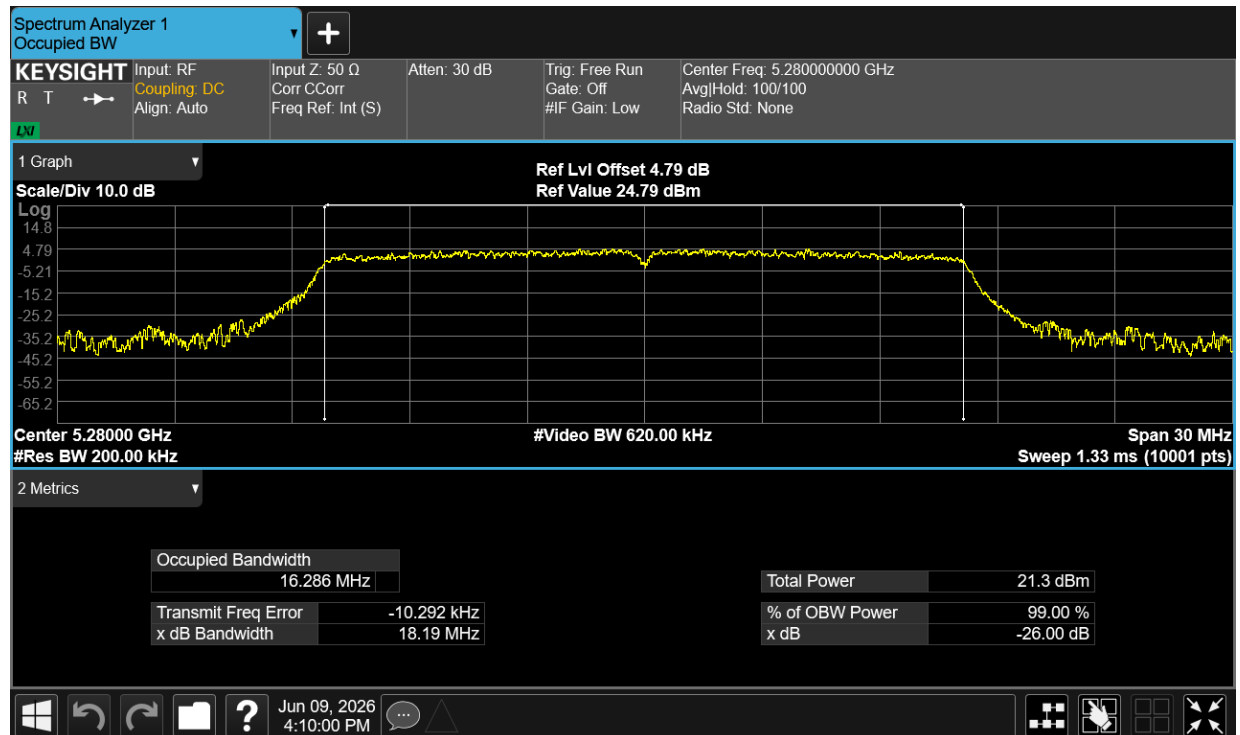
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.27
NVNT	a	5280	Ant1	16.286
NVNT	a	5320	Ant1	16.282
NVNT	a	5260	Ant2	16.251
NVNT	a	5280	Ant2	16.271
NVNT	a	5320	Ant2	16.275
NVNT	ac20	5260	Ant1	17.48
NVNT	ac20	5260	Ant2	17.464
NVNT	ac20	5280	Ant1	17.478
NVNT	ac20	5280	Ant2	17.451
NVNT	ac20	5320	Ant1	17.472
NVNT	ac20	5320	Ant2	17.471
NVNT	ac40	5270	Ant1	35.8
NVNT	ac40	5270	Ant2	35.692
NVNT	ac40	5310	Ant1	35.803
NVNT	ac40	5310	Ant2	35.805
NVNT	ac80	5290	Ant1	74.892
NVNT	ac80	5290	Ant2	74.782
NVNT	n20	5260	Ant1	17.484
NVNT	n20	5260	Ant2	17.461
NVNT	n20	5280	Ant1	17.477
NVNT	n20	5280	Ant2	17.448
NVNT	n20	5320	Ant1	17.475
NVNT	n20	5320	Ant2	17.472
NVNT	n40	5270	Ant1	35.908
NVNT	n40	5270	Ant2	35.78
NVNT	n40	5310	Ant1	35.798
NVNT	n40	5310	Ant2	35.805

Test Graphs

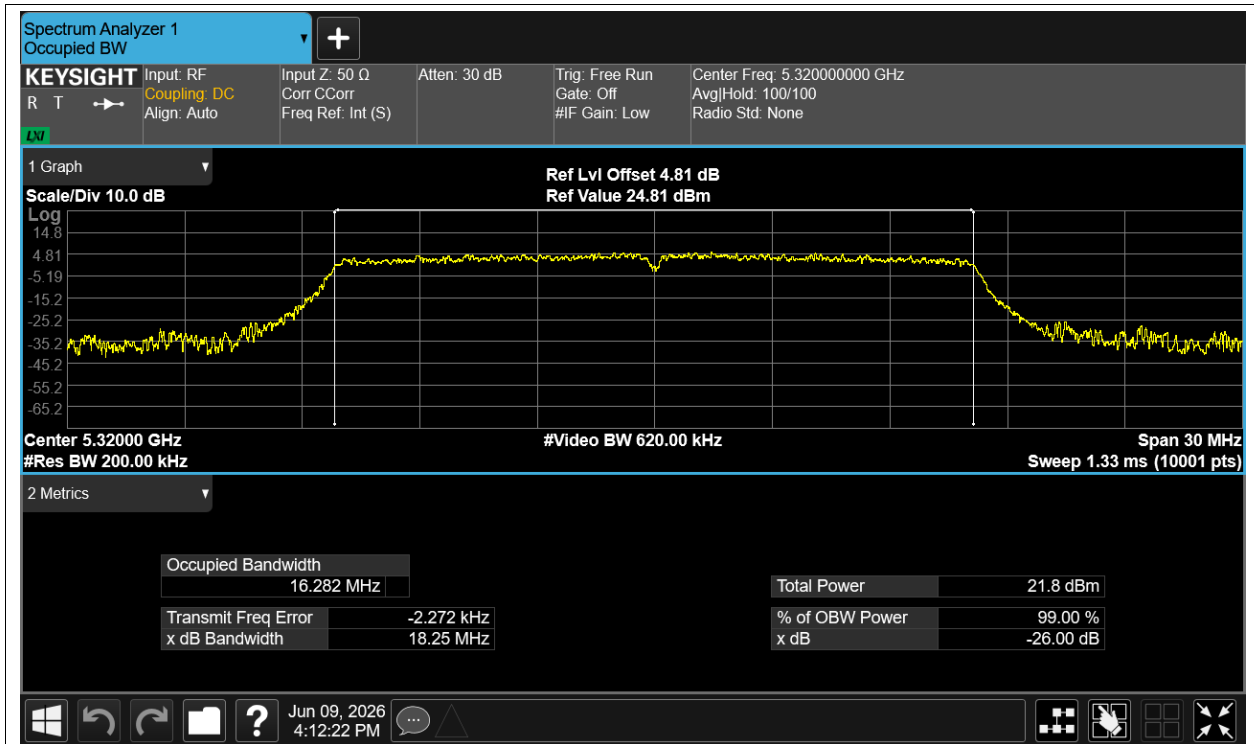
OBW NVNT a 5260MHz Ant1



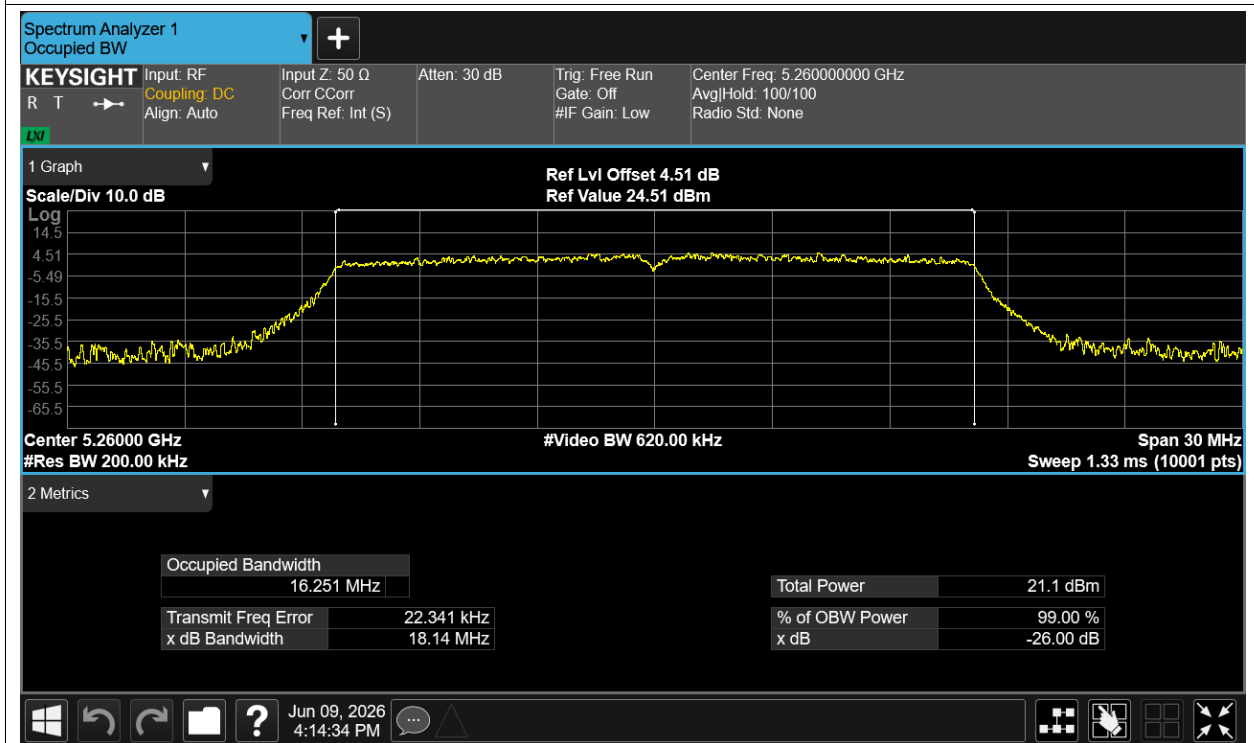
OBW NVNT a 5280MHz Ant1



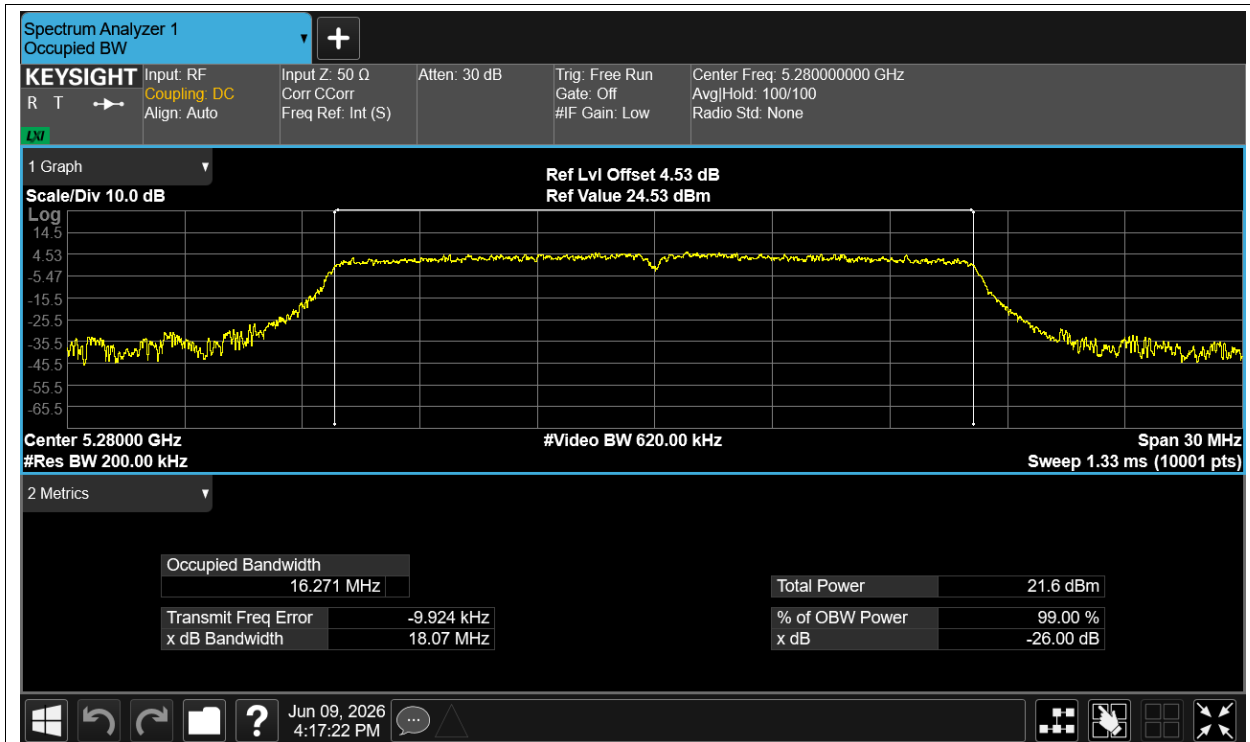
OBW NVNT a 5320MHz Ant1



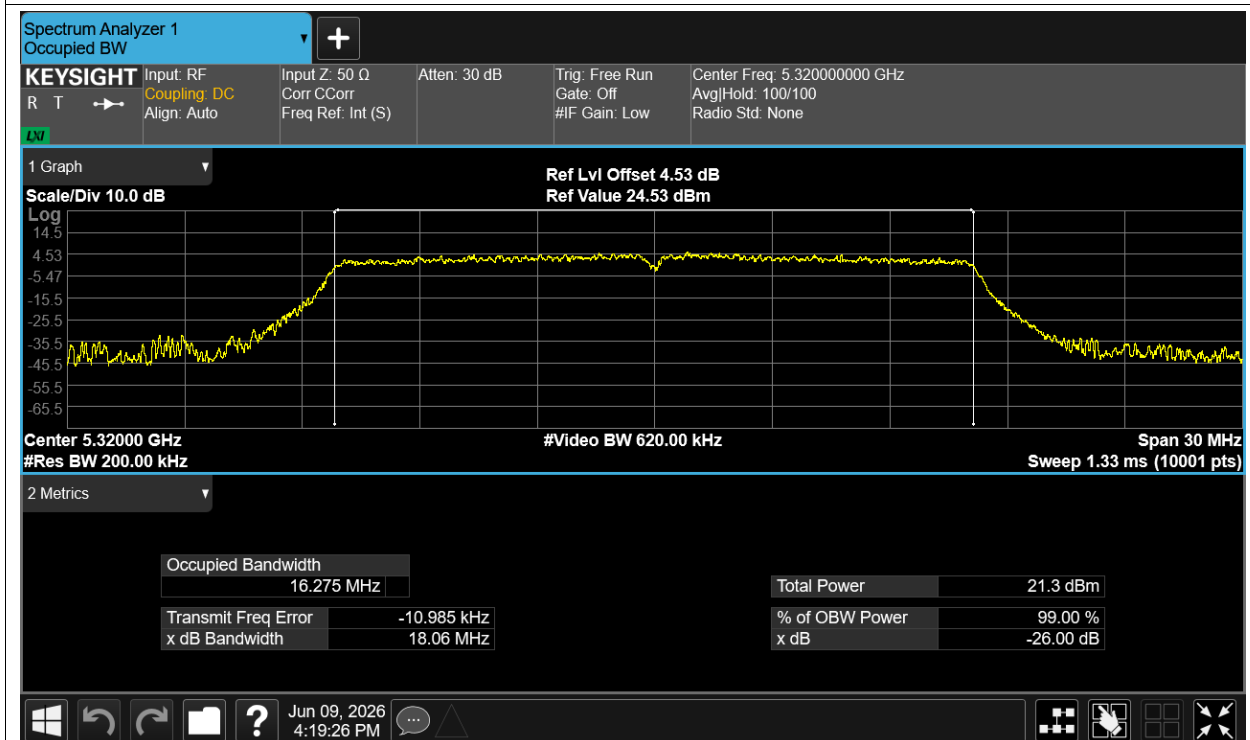
OBW NVNT a 5260MHz Ant2



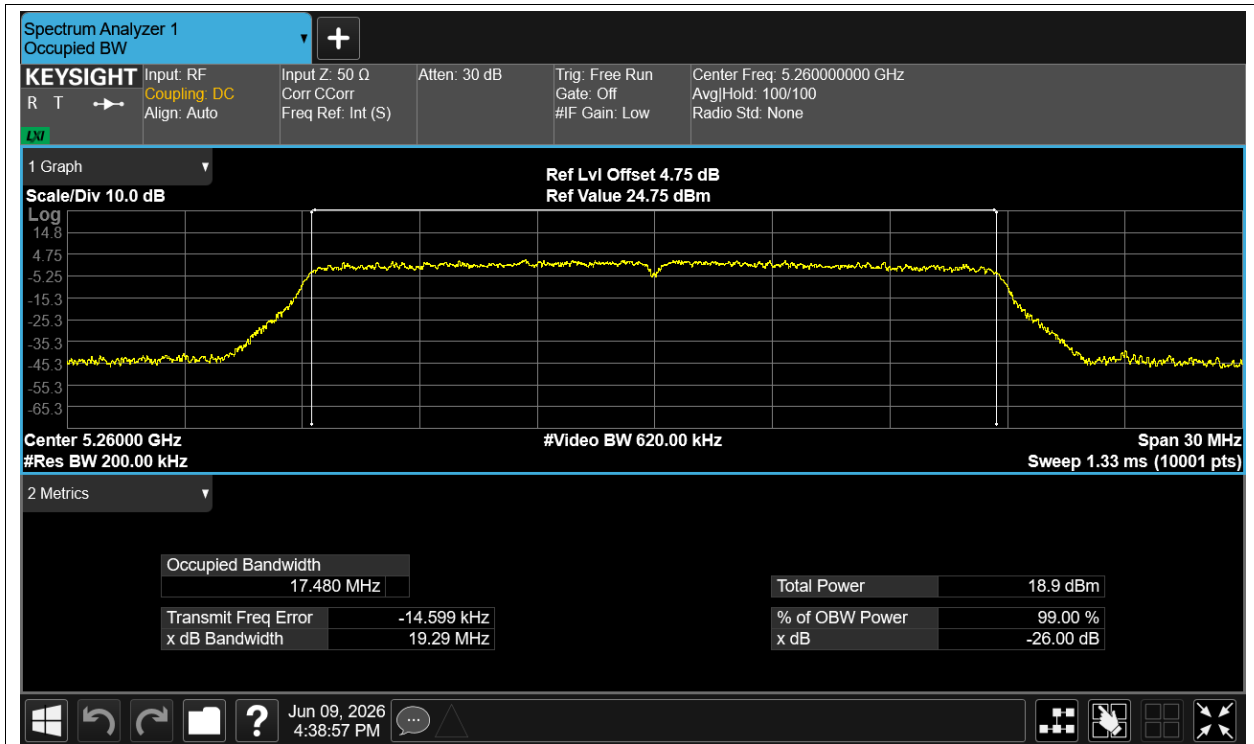
OBW NVNT a 5280MHz Ant2



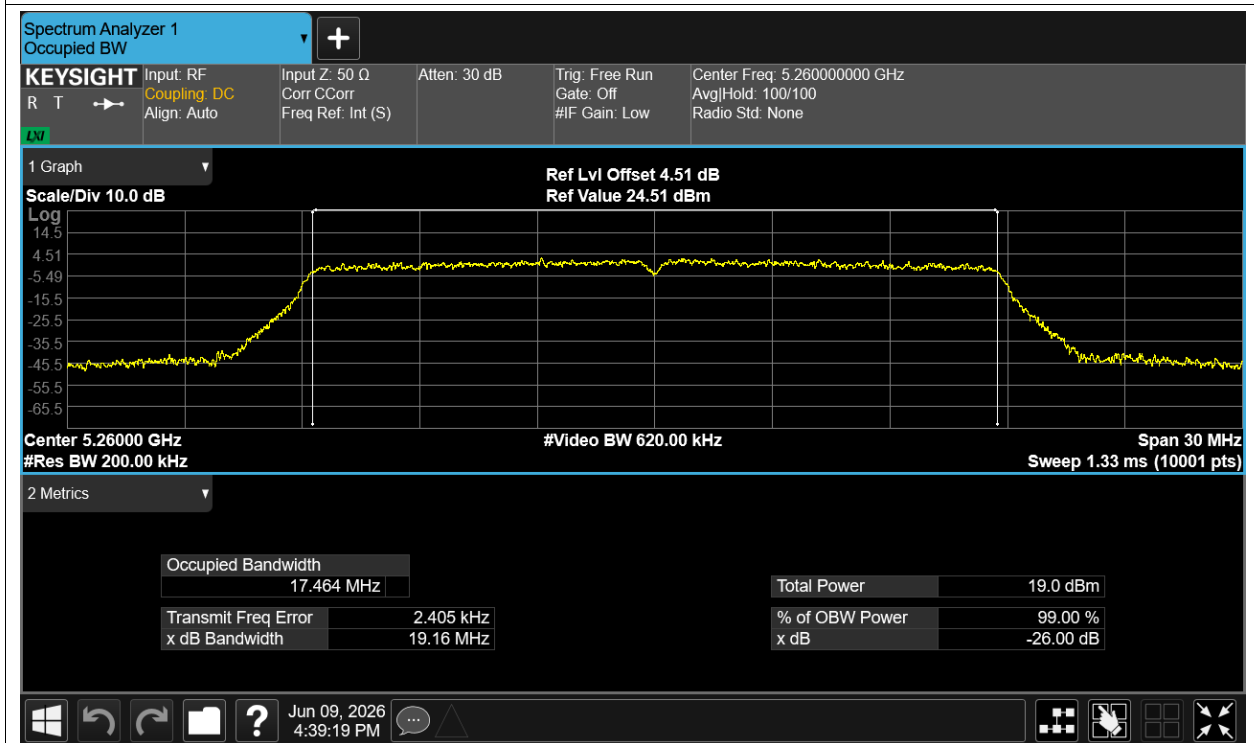
OBW NVNT a 5320MHz Ant2



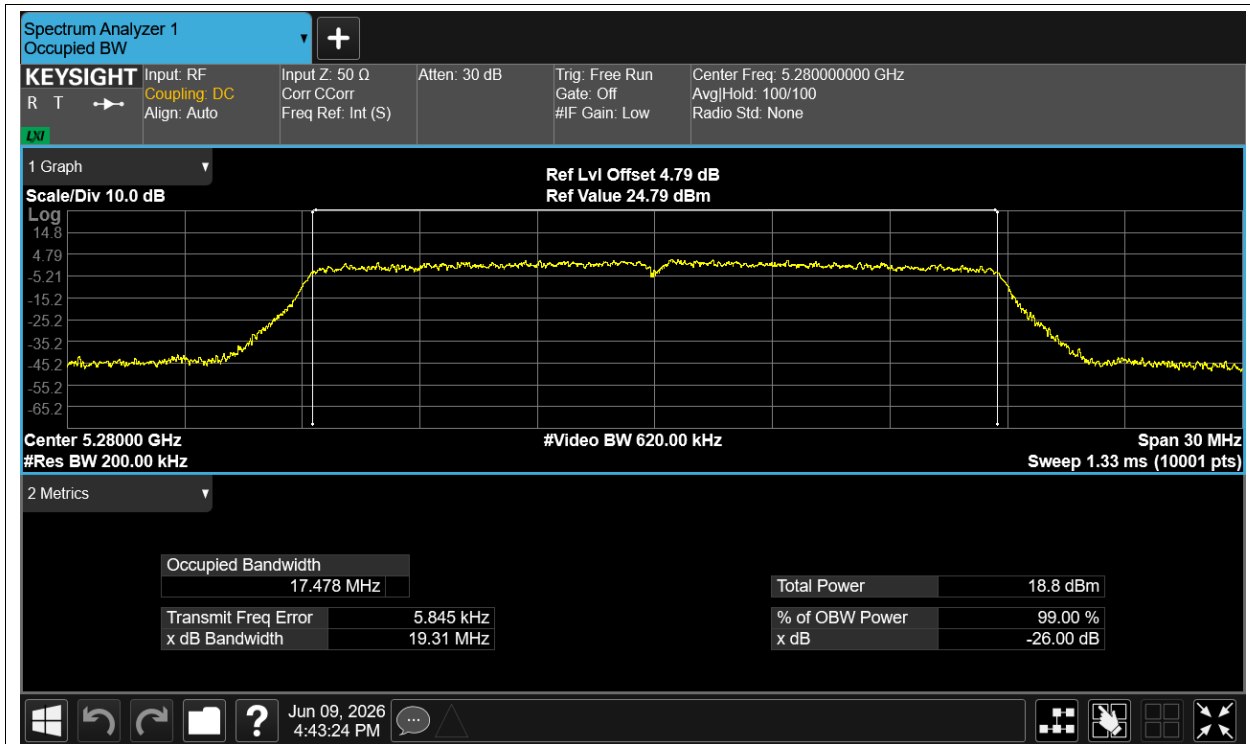
OBW NVNT ac20 5260MHz Ant1



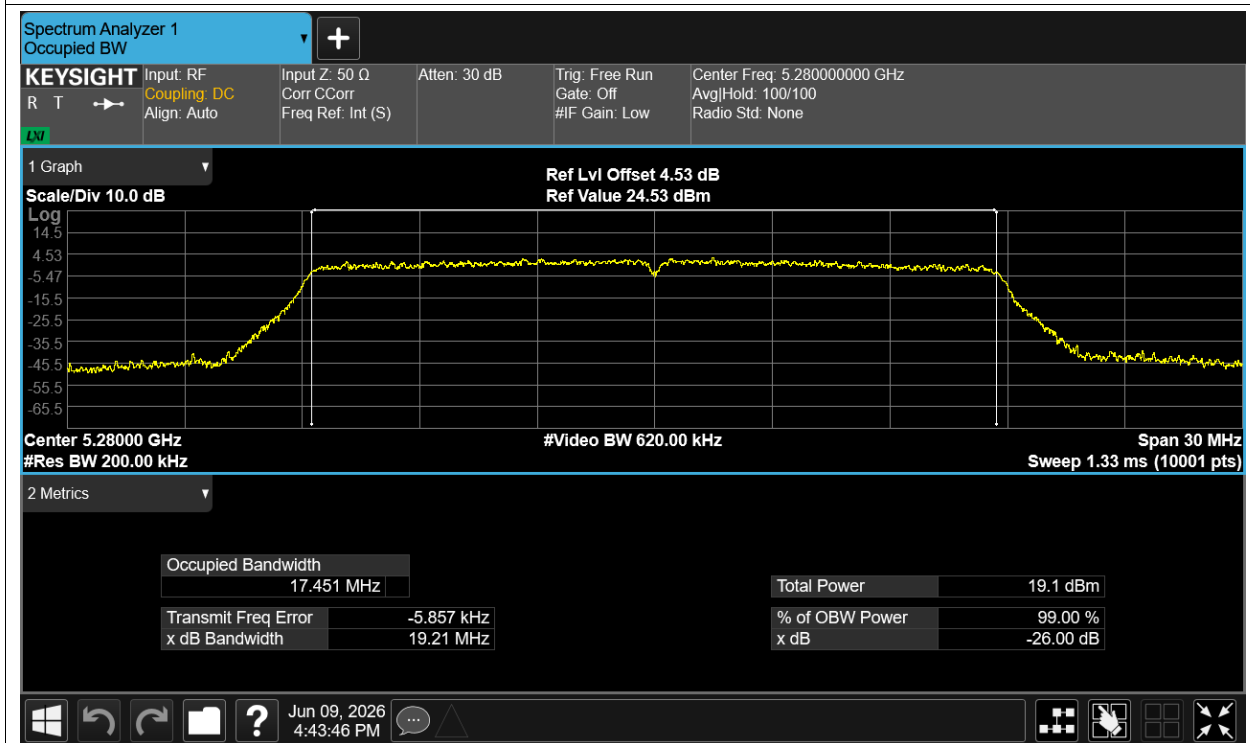
OBW NVNT ac20 5260MHz Ant2



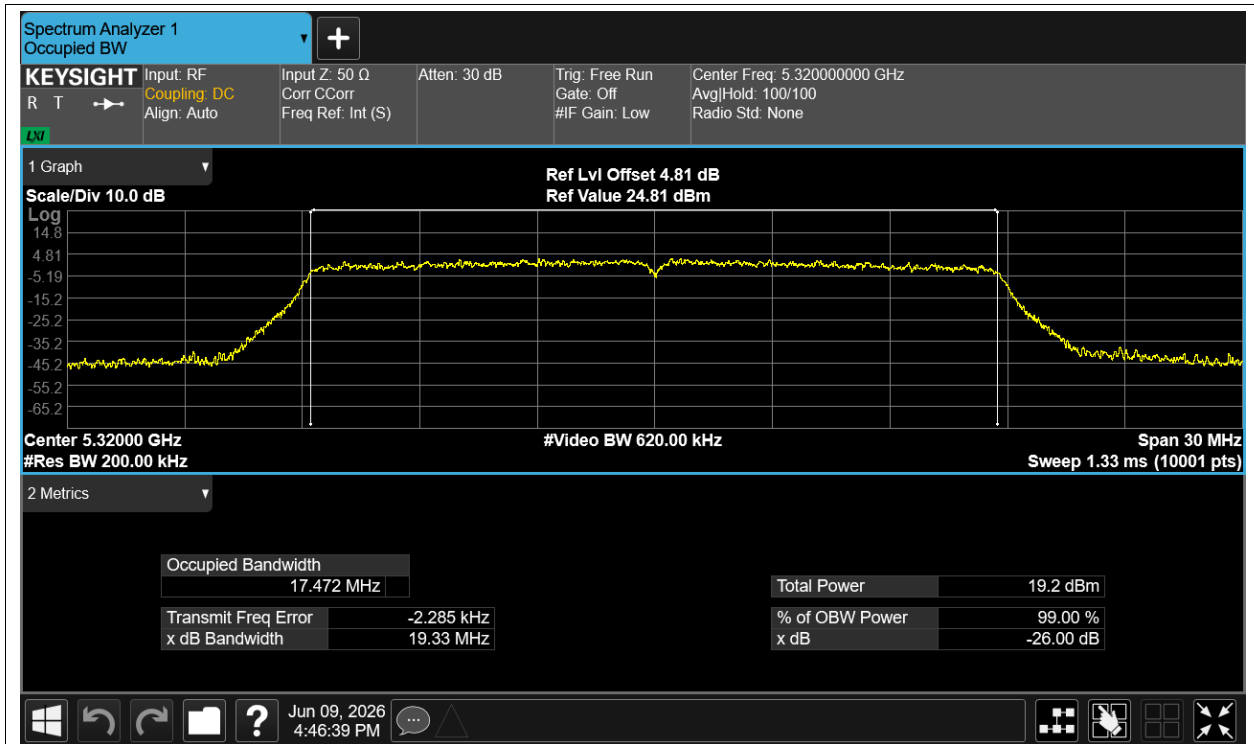
OBW NVNT ac20 5280MHz Ant1



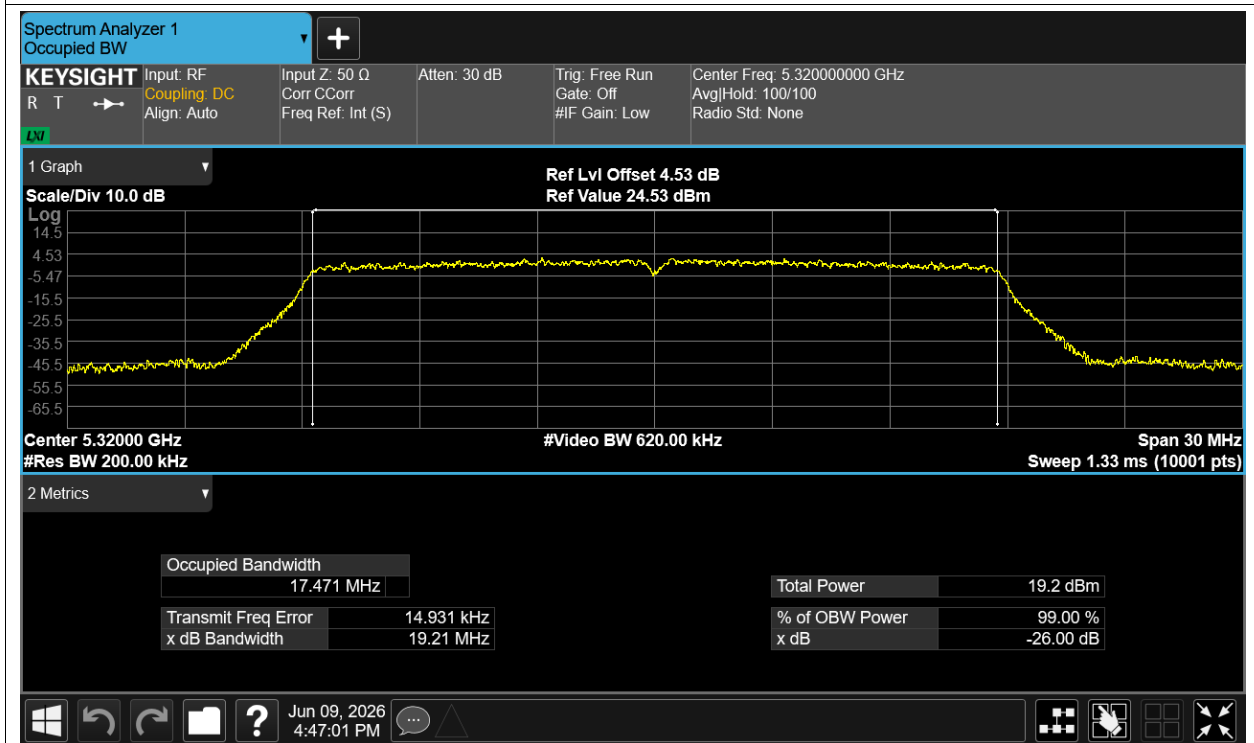
OBW NVNT ac20 5280MHz Ant2



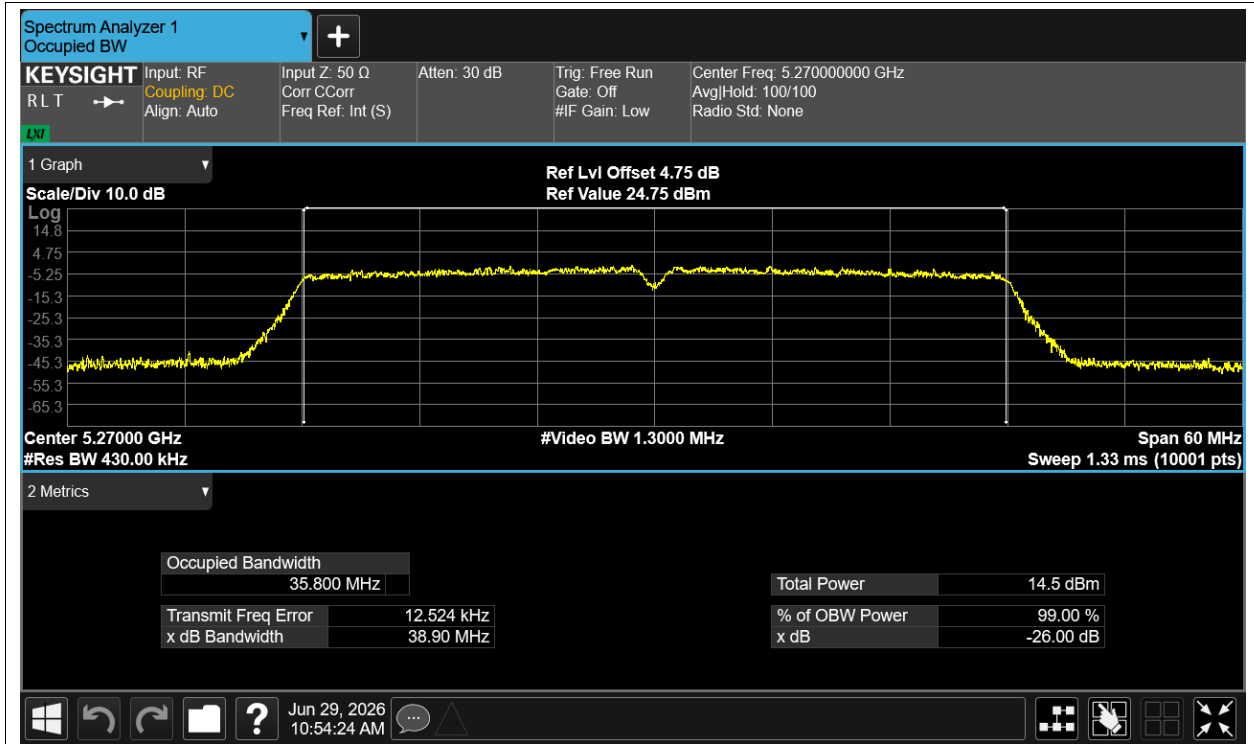
OBW NVNT ac20 5320MHz Ant1



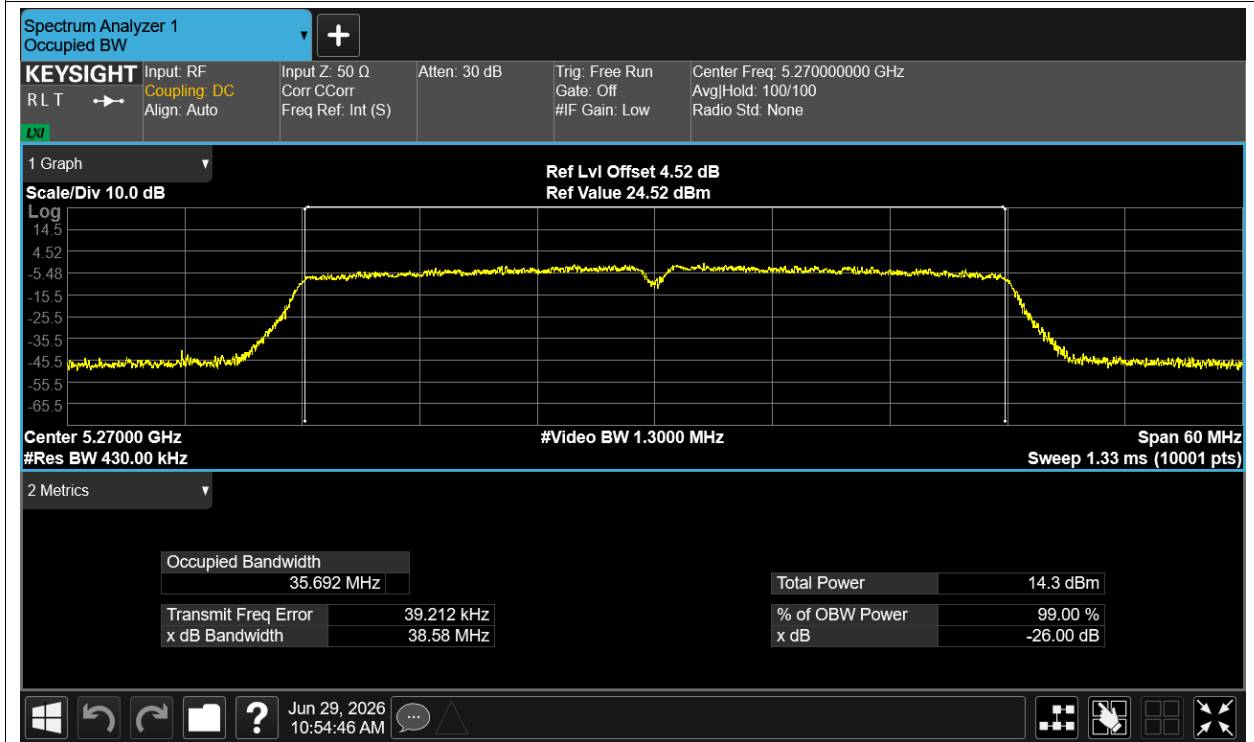
OBW NVNT ac20 5320MHz Ant2



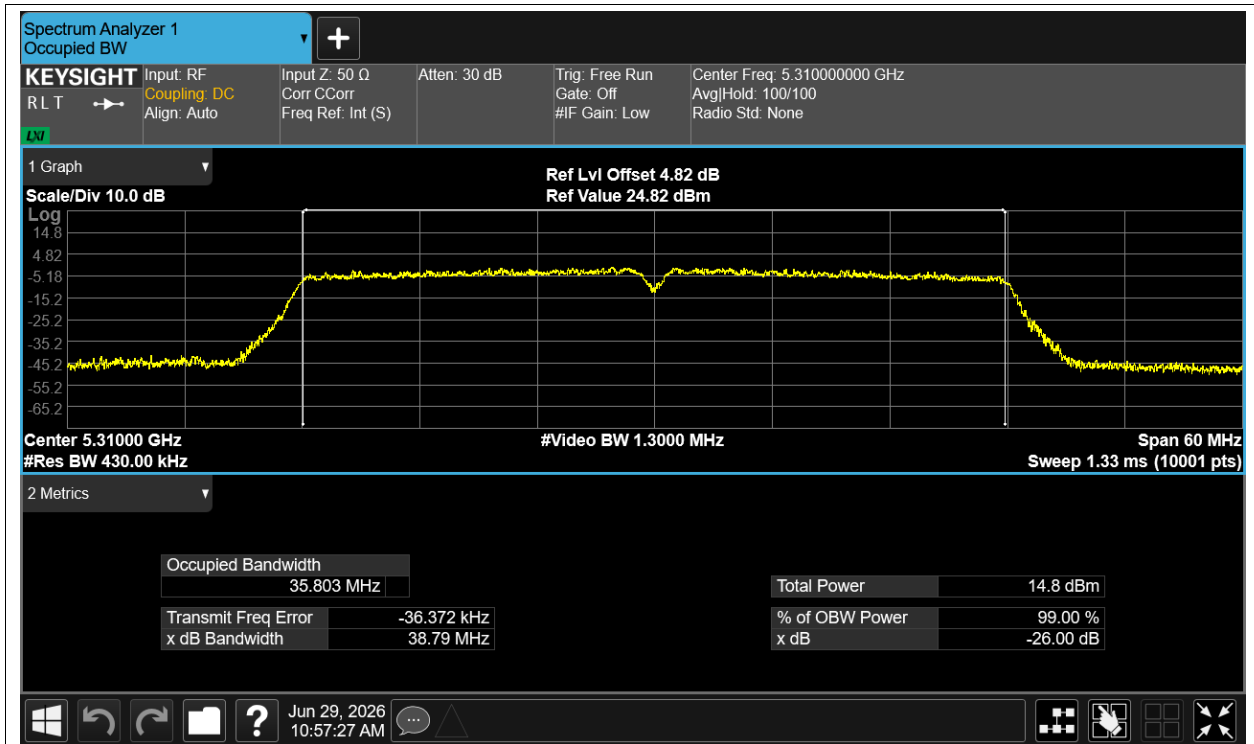
OBW NVNT ac40 5270MHz Ant1



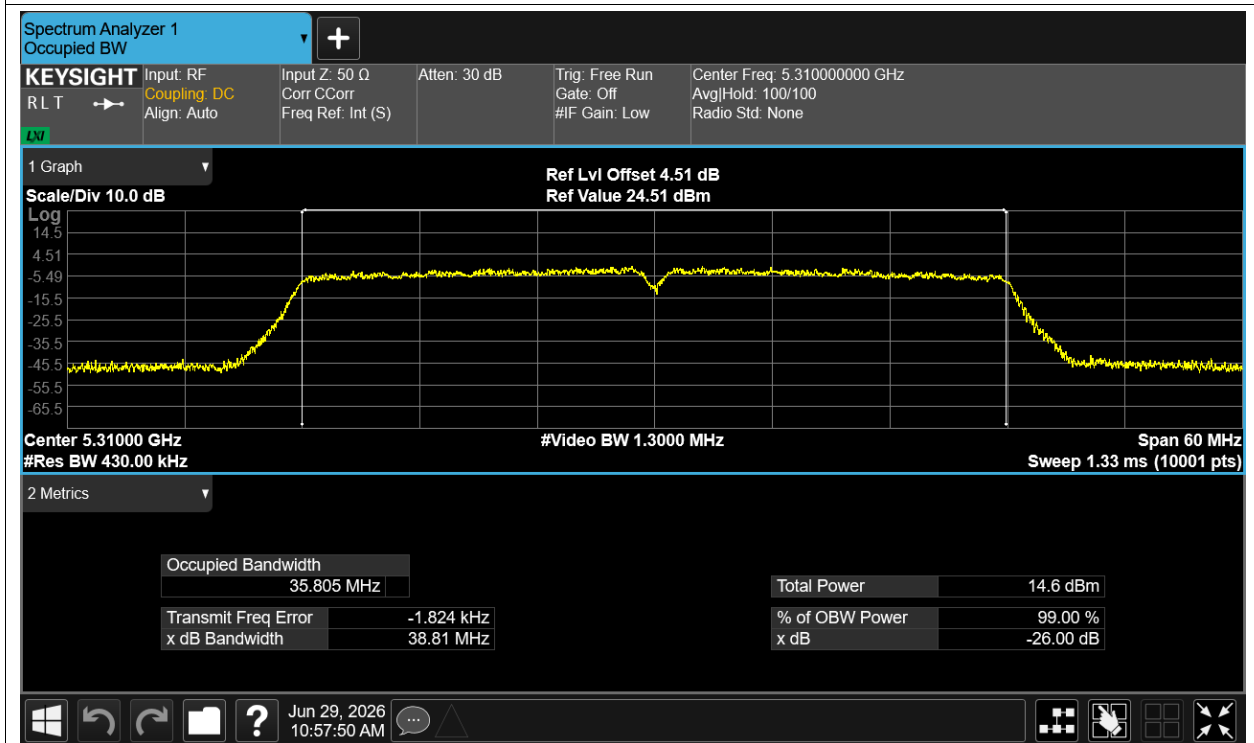
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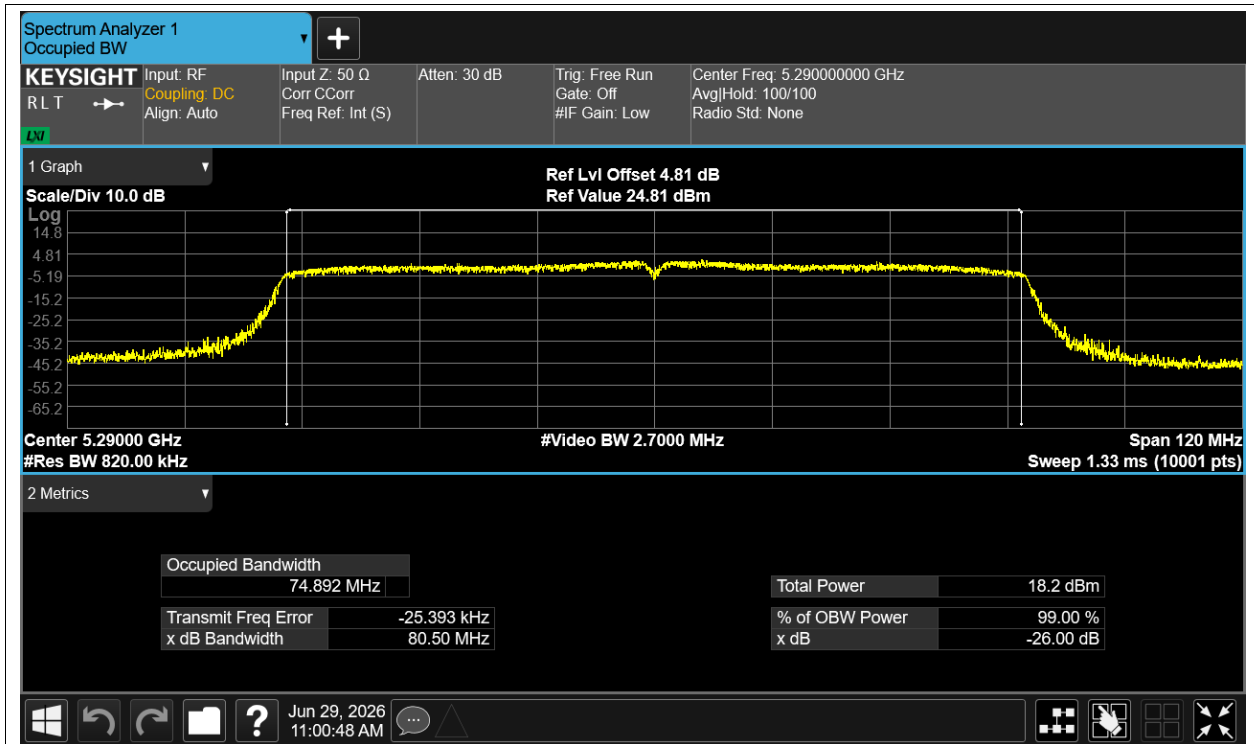
OBW NVNT ac40 5310MHz Ant1



OBW NVNT ac40 5310MHz Ant2



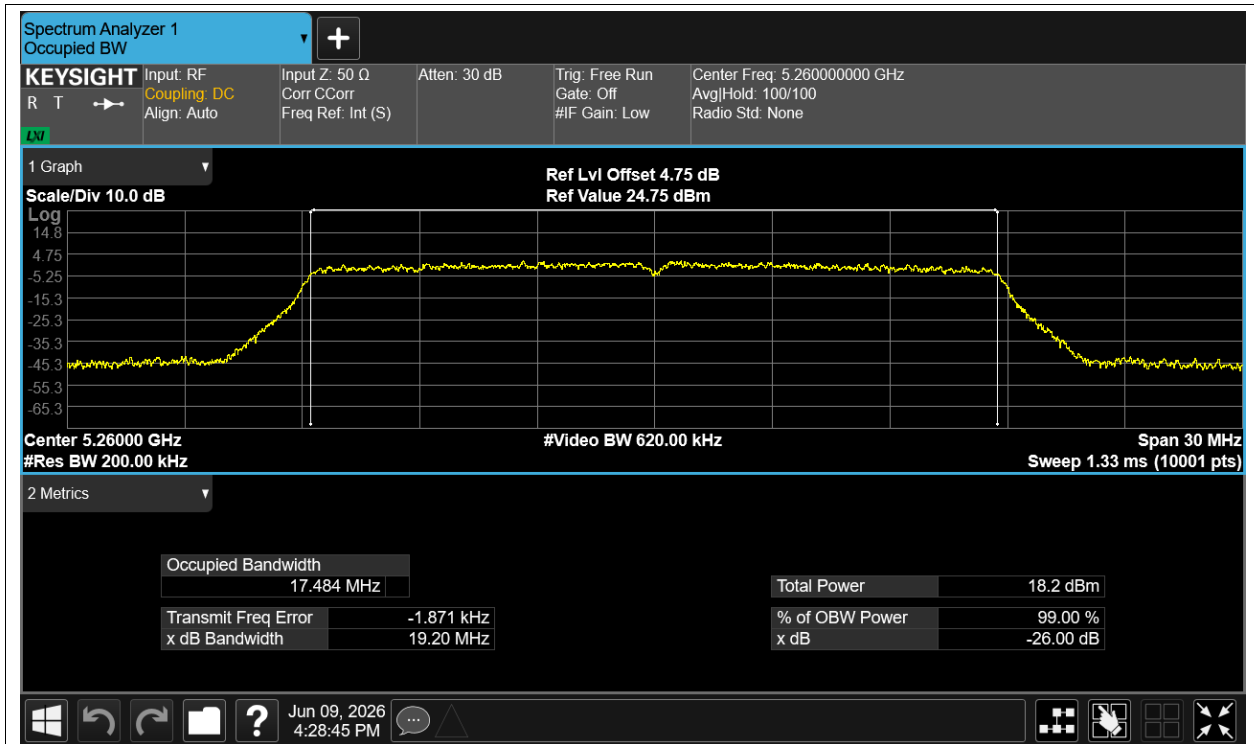
OBW NVNT ac80 5290MHz Ant1



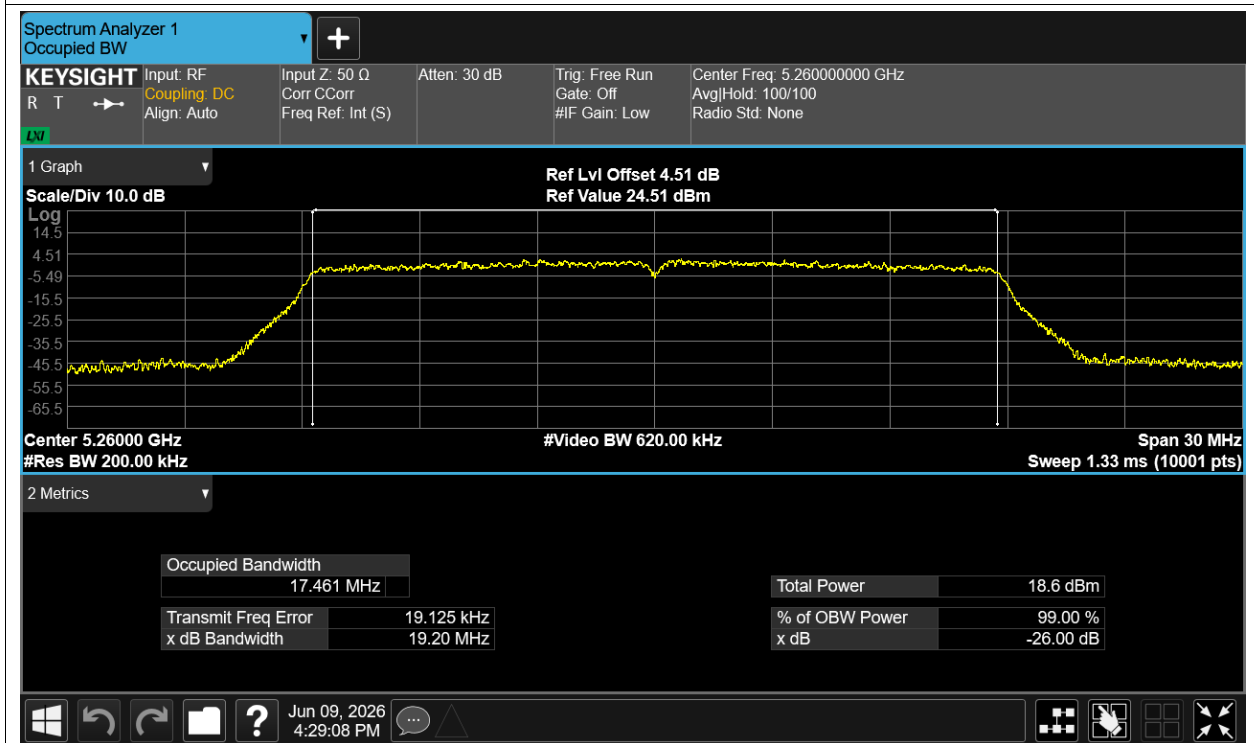
OBW NVNT ac80 5290MHz Ant2



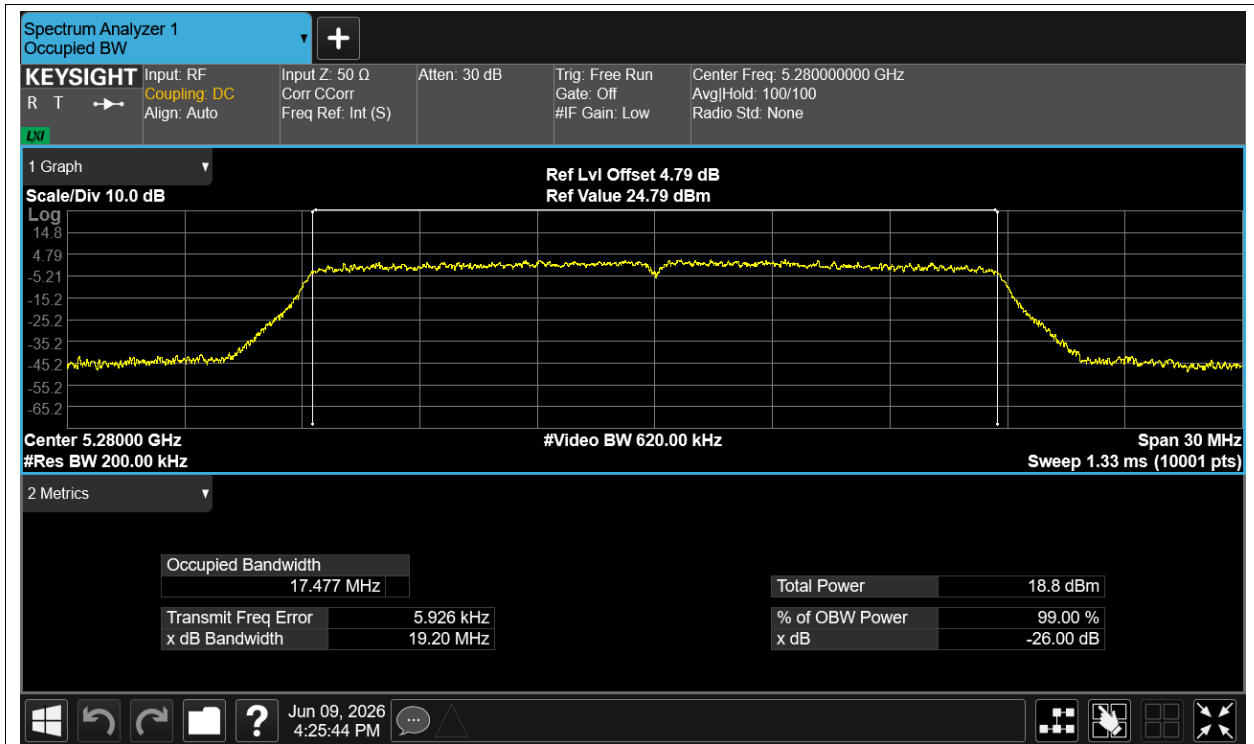
OBW NVNT n20 5260MHz Ant1



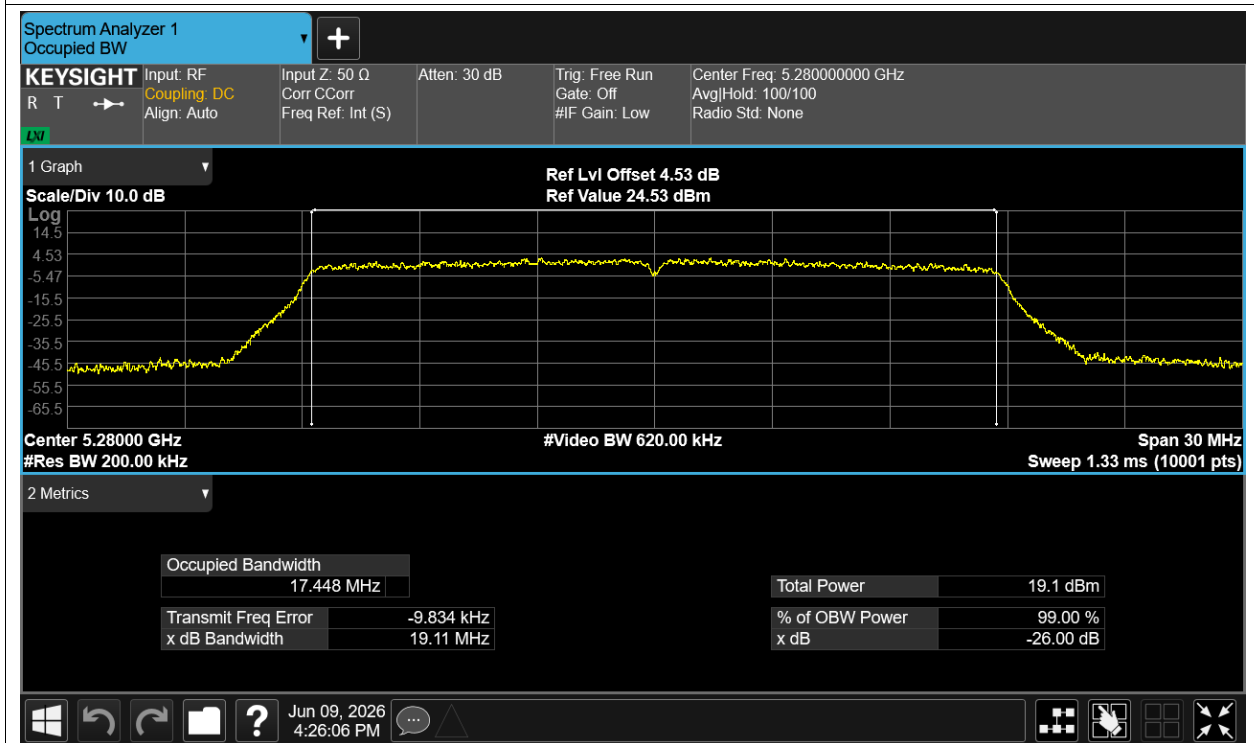
OBW NVNT n20 5260MHz Ant2



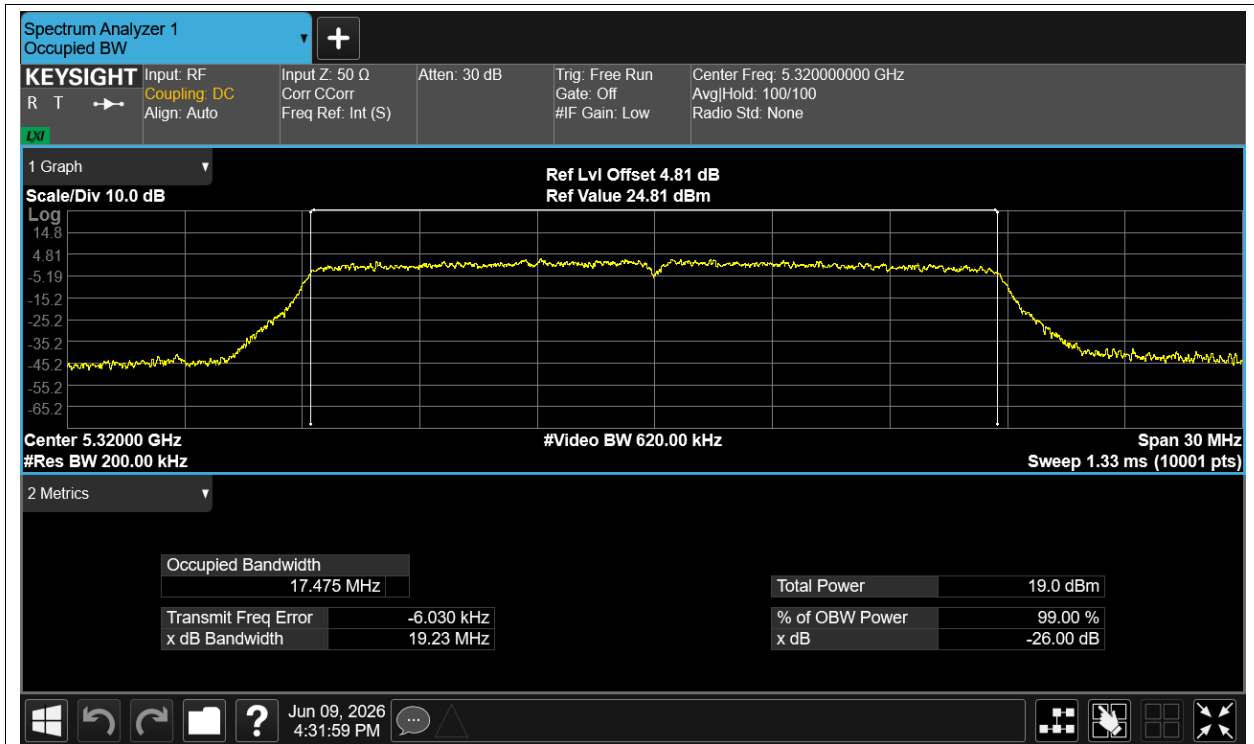
OBW NVNT n20 5280MHz Ant1



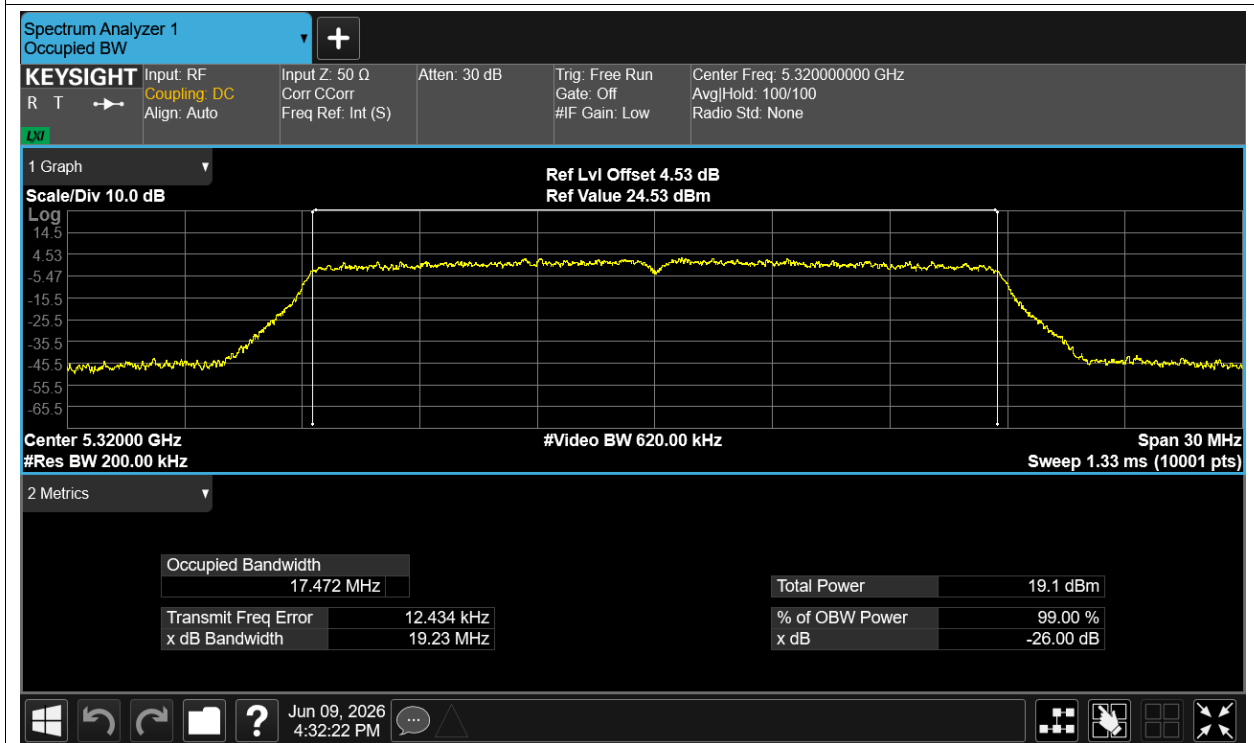
OBW NVNT n20 5280MHz Ant2



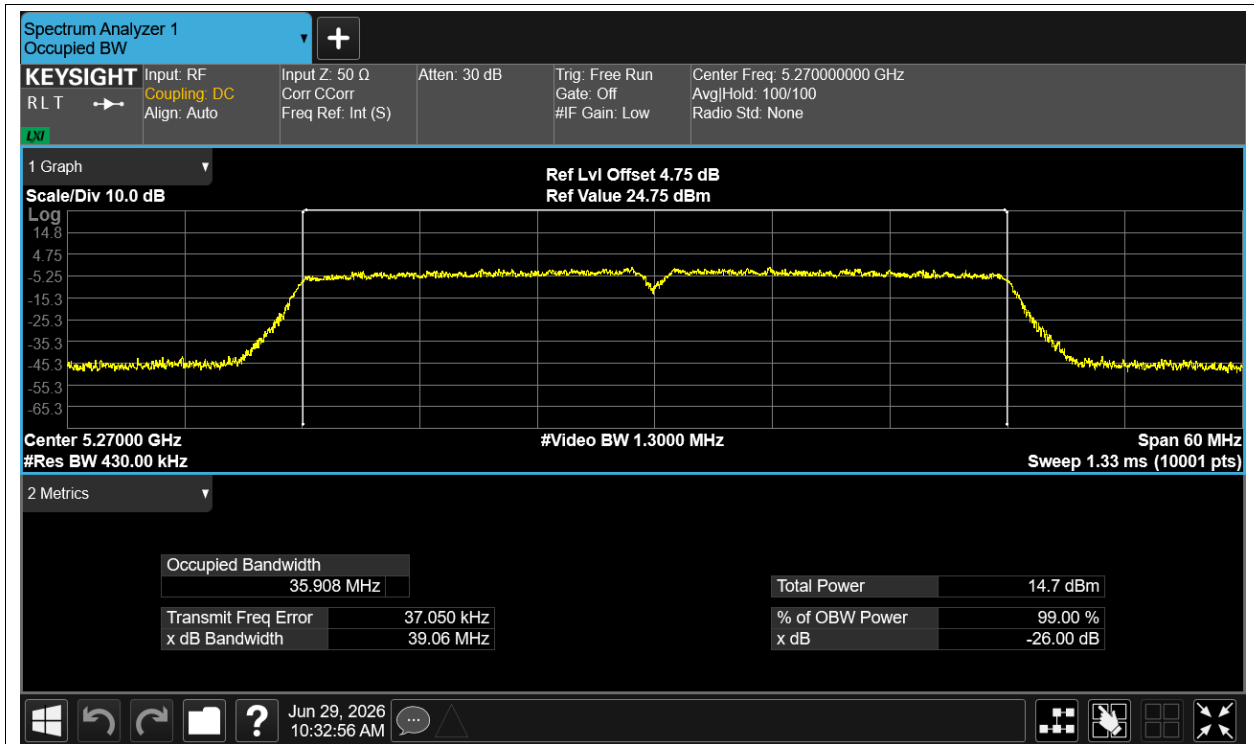
OBW NVNT n20 5320MHz Ant1



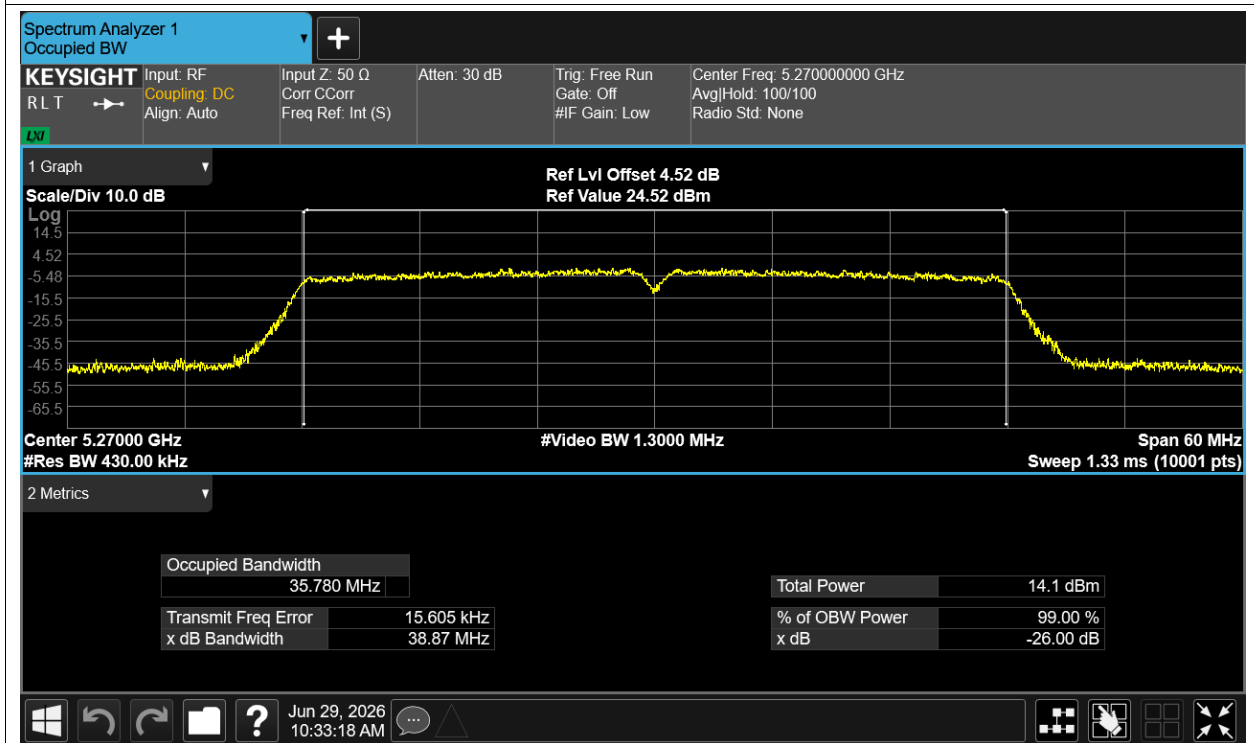
OBW NVNT n20 5320MHz Ant2



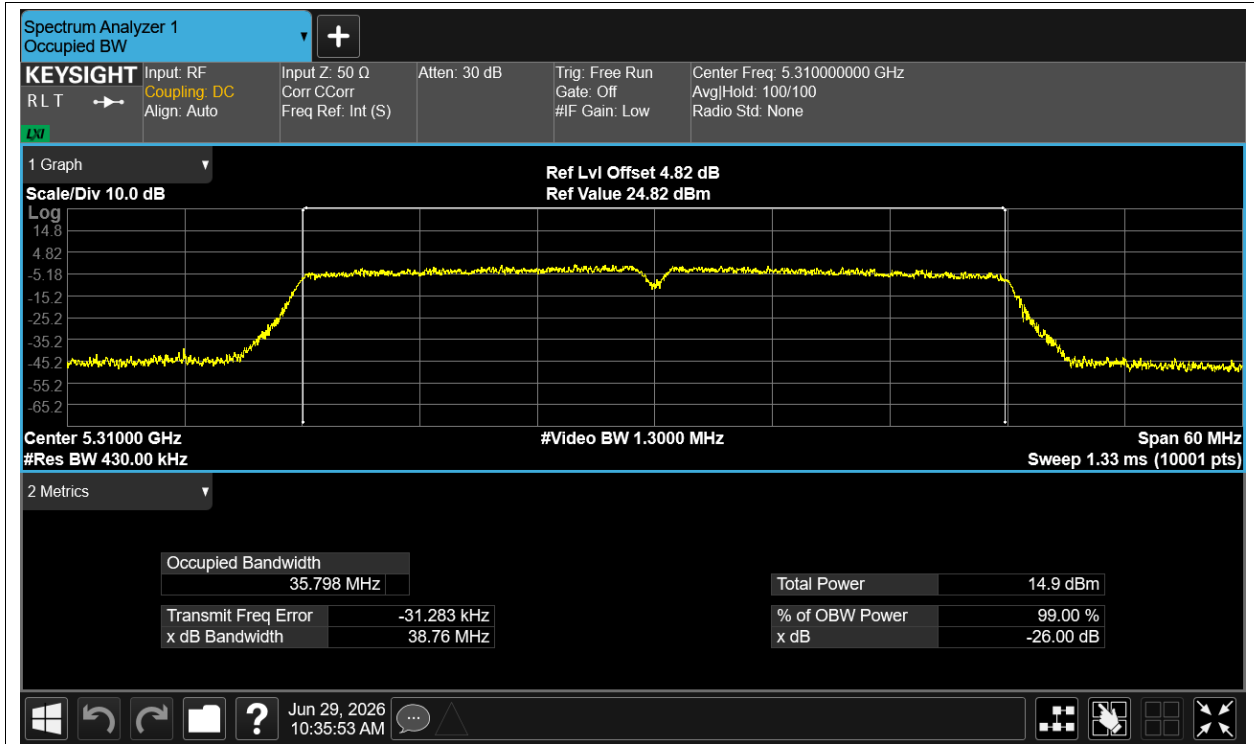
OBW NVNT n40 5270MHz Ant1



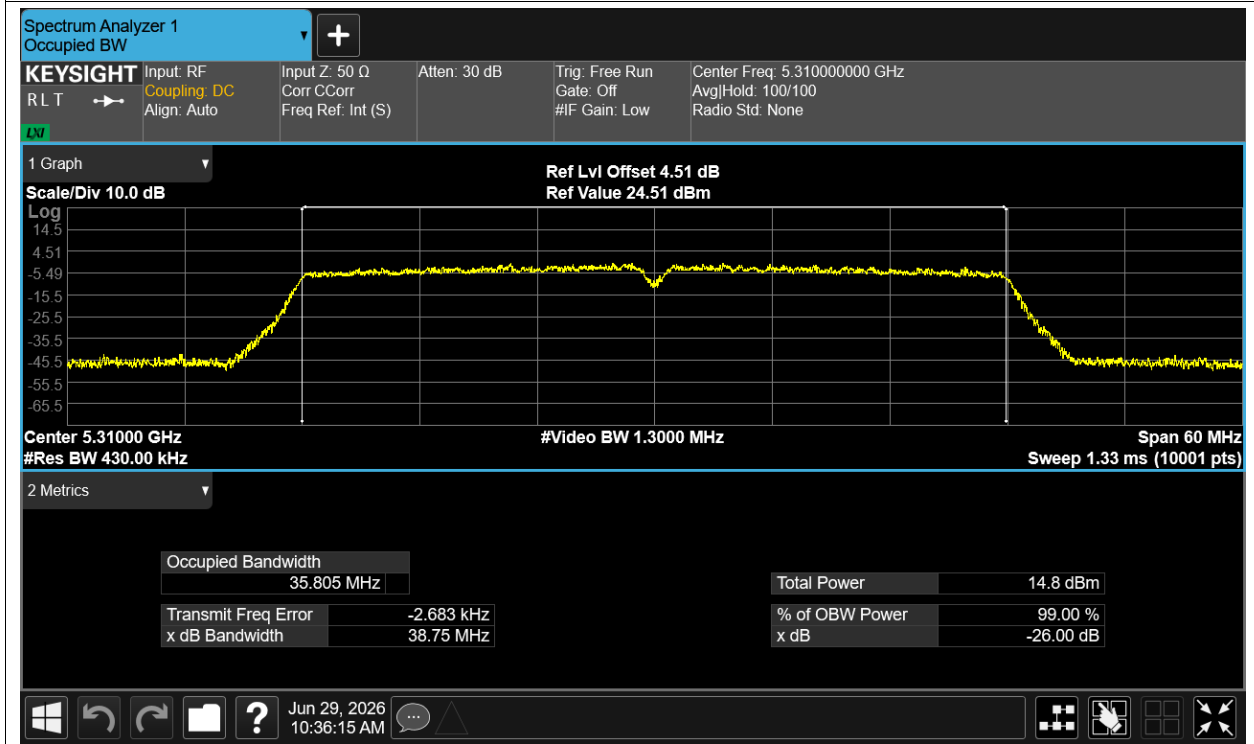
OBW NVNT n40 5270MHz Ant2



OBW NVNT n40 5310MHz Ant1



OBW NVNT n40 5310MHz Ant2



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	0	5.206	5.206	11	Pass
NVNT	a	5280	Ant1	0	6.003	6.003	11	Pass
NVNT	a	5320	Ant1	0	6.462	6.462	11	Pass
NVNT	a	5260	Ant2	0	5.802	5.802	11	Pass
NVNT	a	5280	Ant2	0	6.346	6.346	11	Pass
NVNT	a	5320	Ant2	0	6.095	6.095	11	Pass
NVNT	ac20	5260	Ant1	0	3.08	3.08	9.46	Pass
NVNT	ac20	5260	Ant2	0	3.494	3.494	9.46	Pass
NVNT	ac20	5260	Sum	0	6.302	6.302	9.46	Pass
NVNT	ac20	5280	Ant1	0	3.217	3.217	9.46	Pass
NVNT	ac20	5280	Ant2	0	4.026	4.026	9.46	Pass
NVNT	ac20	5280	Sum	0	6.651	6.651	9.46	Pass
NVNT	ac20	5320	Ant1	0	3.952	3.952	9.46	Pass
NVNT	ac20	5320	Ant2	0	3.872	3.872	9.46	Pass
NVNT	ac20	5320	Sum	0	6.922	6.922	9.46	Pass
NVNT	ac40	5270	Ant1	0	-4.351	-4.351	9.46	Pass
NVNT	ac40	5270	Ant2	0	-4.259	-4.259	9.46	Pass
NVNT	ac40	5270	Sum	0	-1.294	-1.294	9.46	Pass
NVNT	ac40	5310	Ant1	0	-3.707	-3.707	9.46	Pass
NVNT	ac40	5310	Ant2	0	-4.066	-4.066	9.46	Pass
NVNT	ac40	5310	Sum	0	-0.872	-0.872	9.46	Pass
NVNT	ac80	5290	Ant1	0	-3.886	-3.886	9.46	Pass
NVNT	ac80	5290	Ant2	0	-3.615	-3.615	9.46	Pass
NVNT	ac80	5290	Sum	0	-0.738	-0.738	9.46	Pass
NVNT	n20	5260	Ant1	0	2.917	2.917	9.46	Pass
NVNT	n20	5260	Ant2	0	3.264	3.264	9.46	Pass
NVNT	n20	5260	Sum	0	6.104	6.104	9.46	Pass
NVNT	n20	5280	Ant1	0	3.325	3.325	9.46	Pass
NVNT	n20	5280	Ant2	0	3.998	3.998	9.46	Pass
NVNT	n20	5280	Sum	0	6.685	6.685	9.46	Pass
NVNT	n20	5320	Ant1	0	3.577	3.577	9.46	Pass
NVNT	n20	5320	Ant2	0	4.113	4.113	9.46	Pass
NVNT	n20	5320	Sum	0	6.864	6.864	9.46	Pass
NVNT	n40	5270	Ant1	0	-4.295	-4.295	9.46	Pass
NVNT	n40	5270	Ant2	0	-4.458	-4.458	9.46	Pass
NVNT	n40	5270	Sum	0	-1.365	-1.365	9.46	Pass
NVNT	n40	5310	Ant1	0	-3.676	-3.676	9.46	Pass
NVNT	n40	5310	Ant2	0	-3.833	-3.833	9.46	Pass
NVNT	n40	5310	Sum	0	-0.743	-0.743	9.46	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

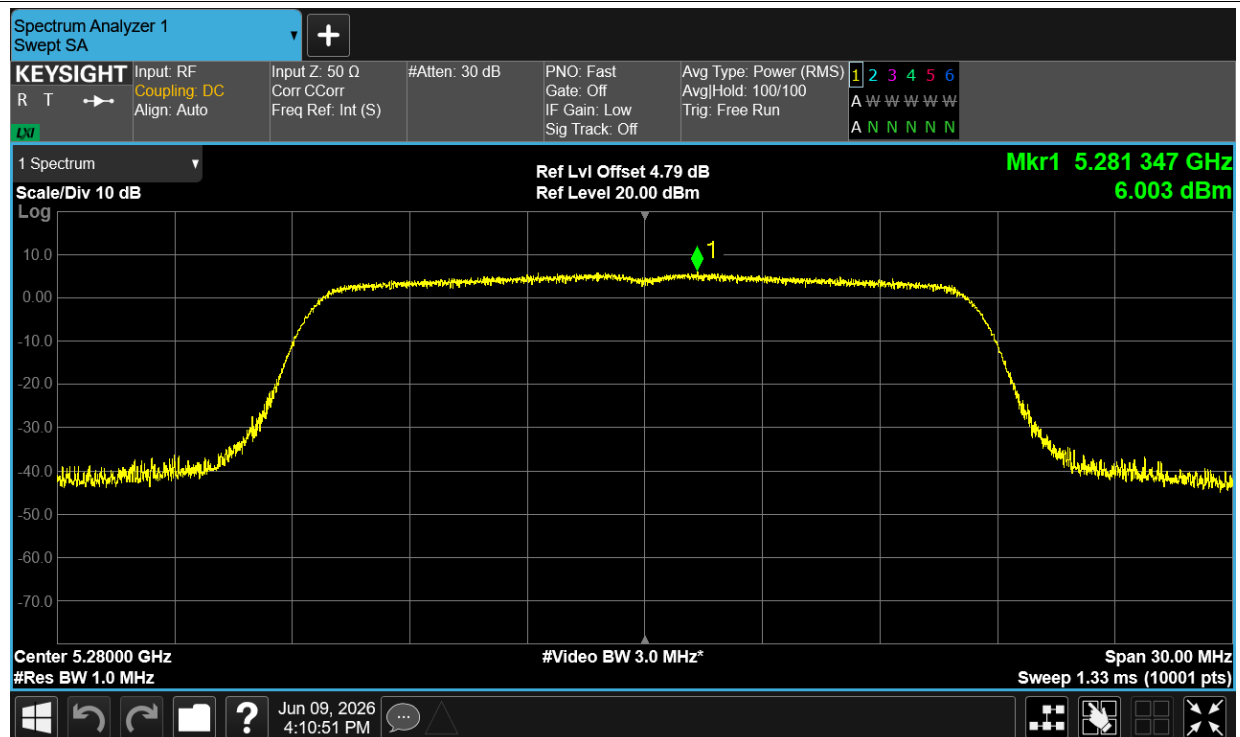
For MIMO mode: ant gain is $4.53+10*\log_{10}(2) = 4.53+3.01=7.54\text{dBi}$, the limit is $11-(7.54-6) = 9.46\text{dbm}$.

Test Graphs

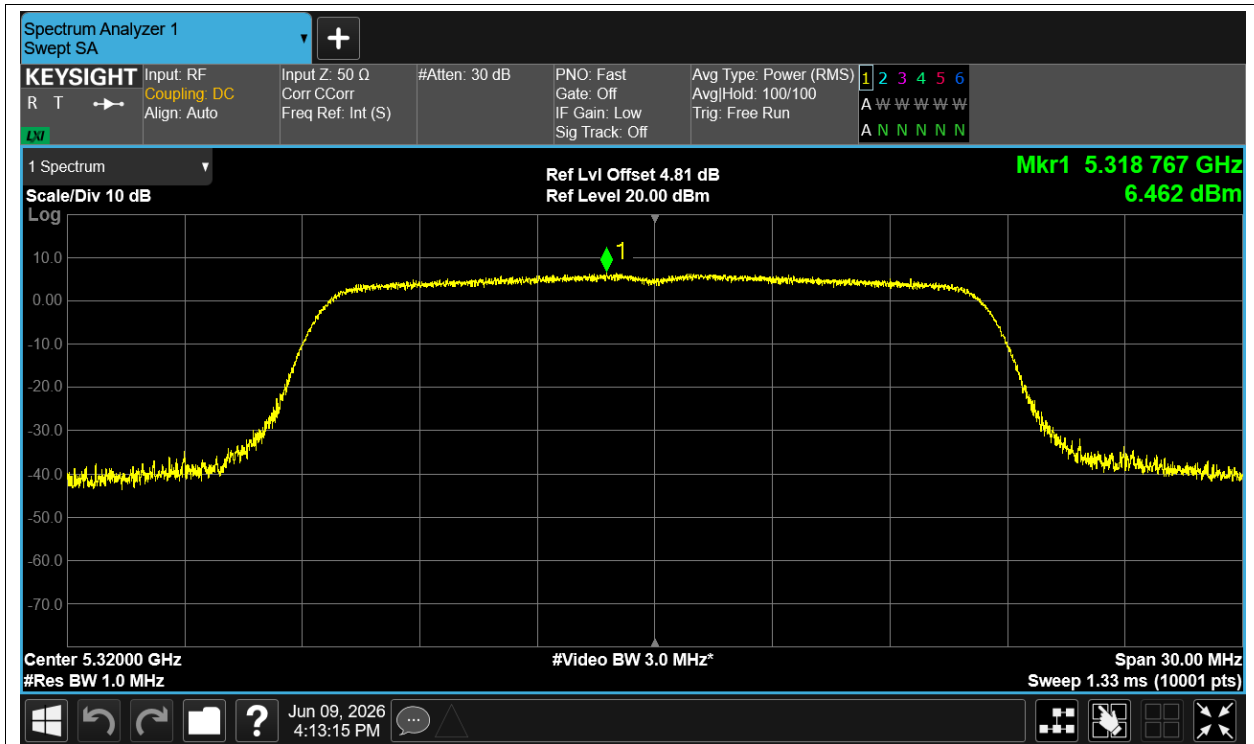
PSD NVNT a 5260MHz Ant1



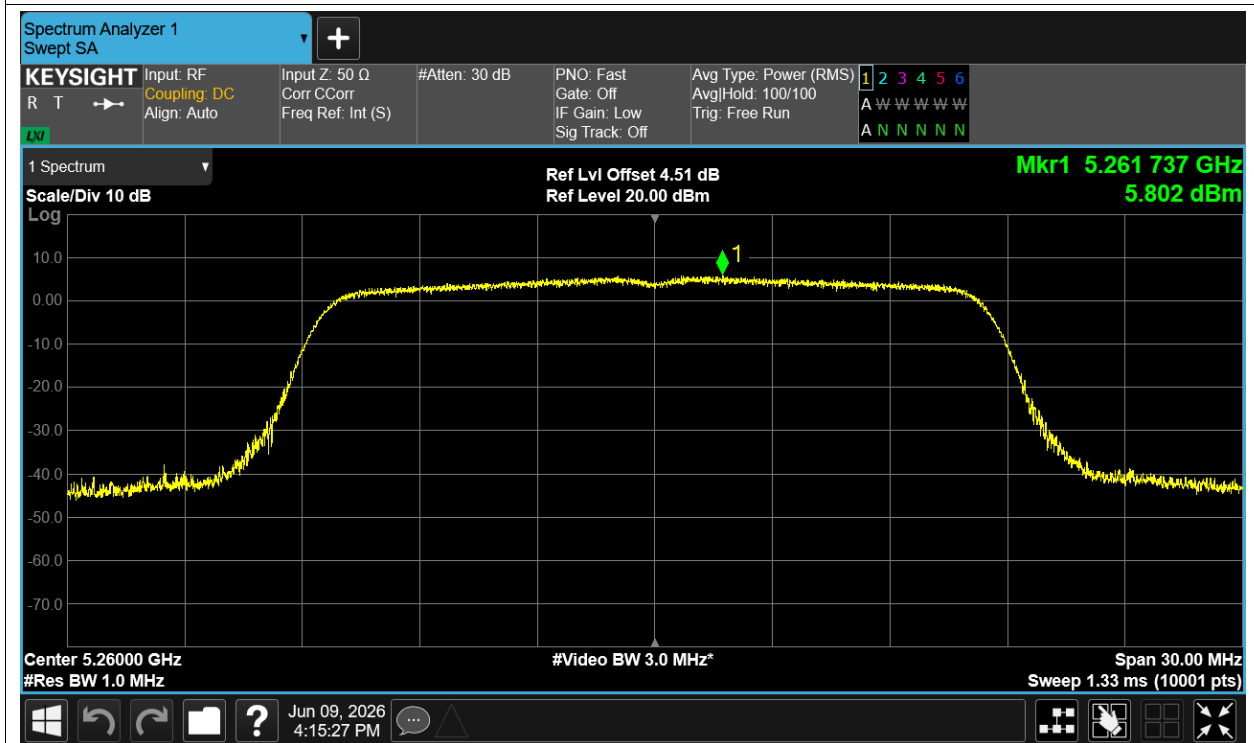
PSD NVNT a 5280MHz Ant1



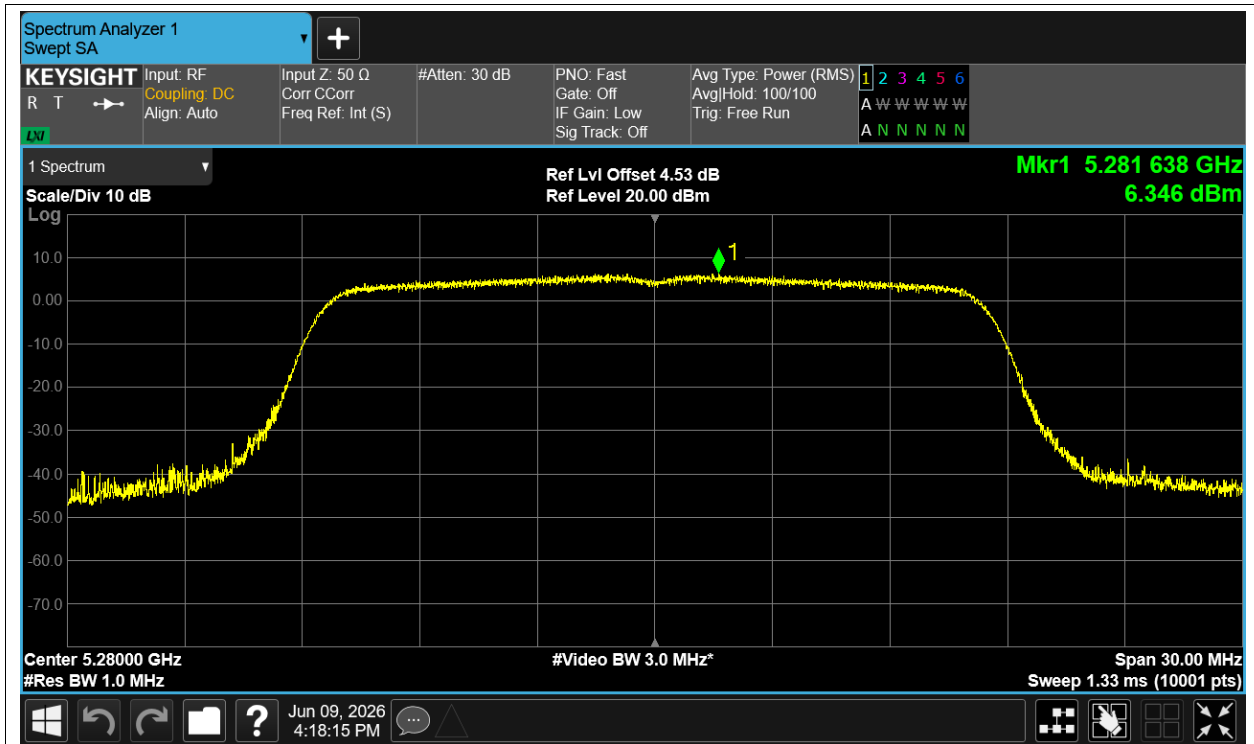
PSD NVNT a 5320MHz Ant1



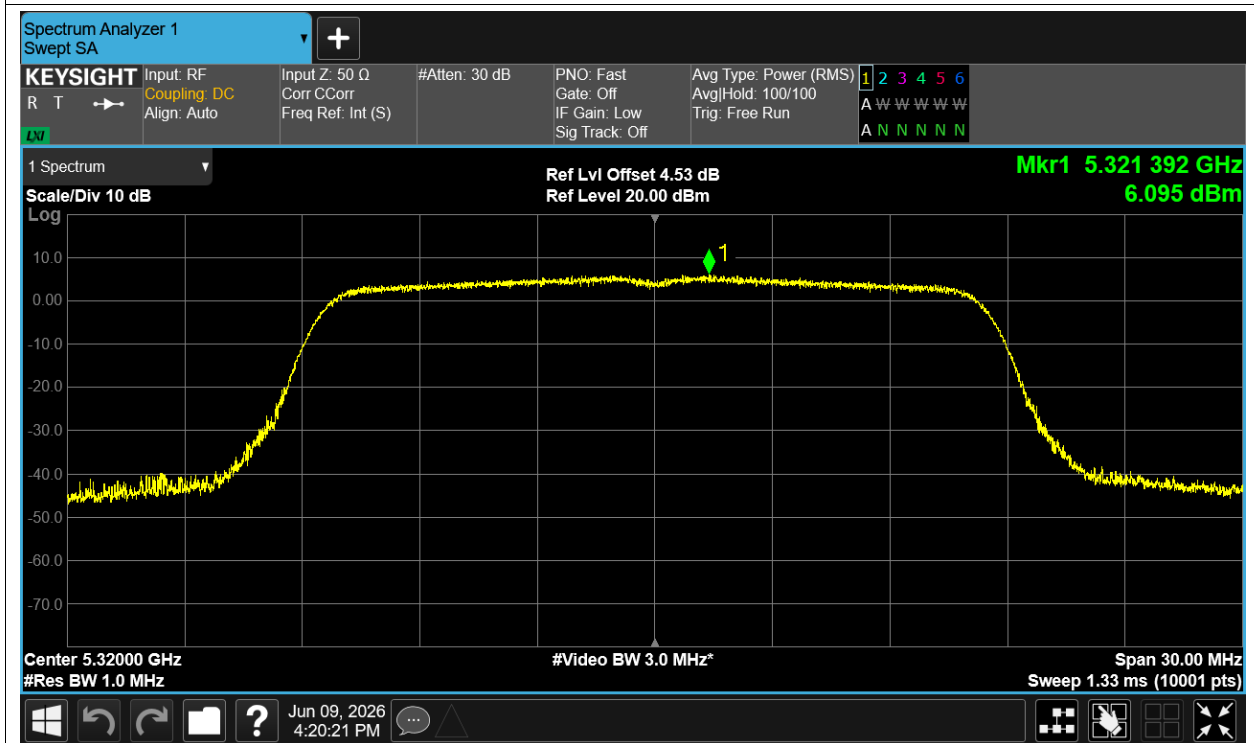
PSD NVNT a 5260MHz Ant2



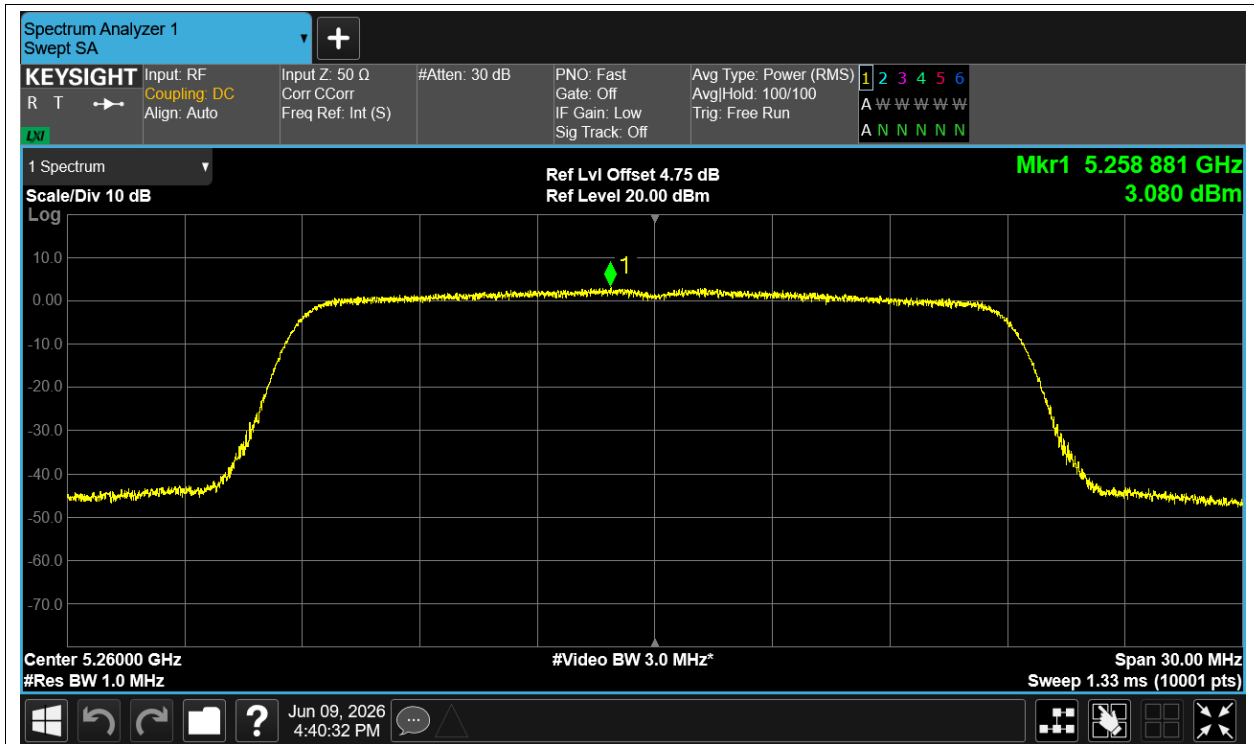
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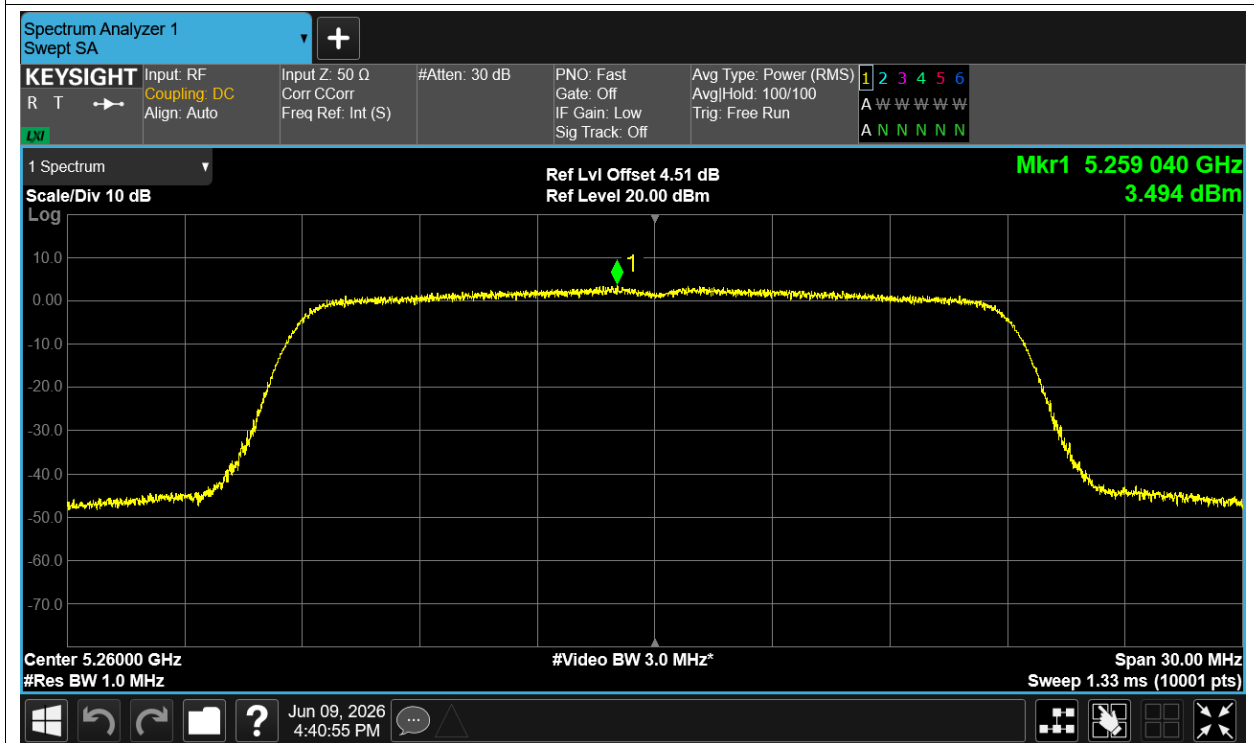
PSD NVNT a 5320MHz Ant2



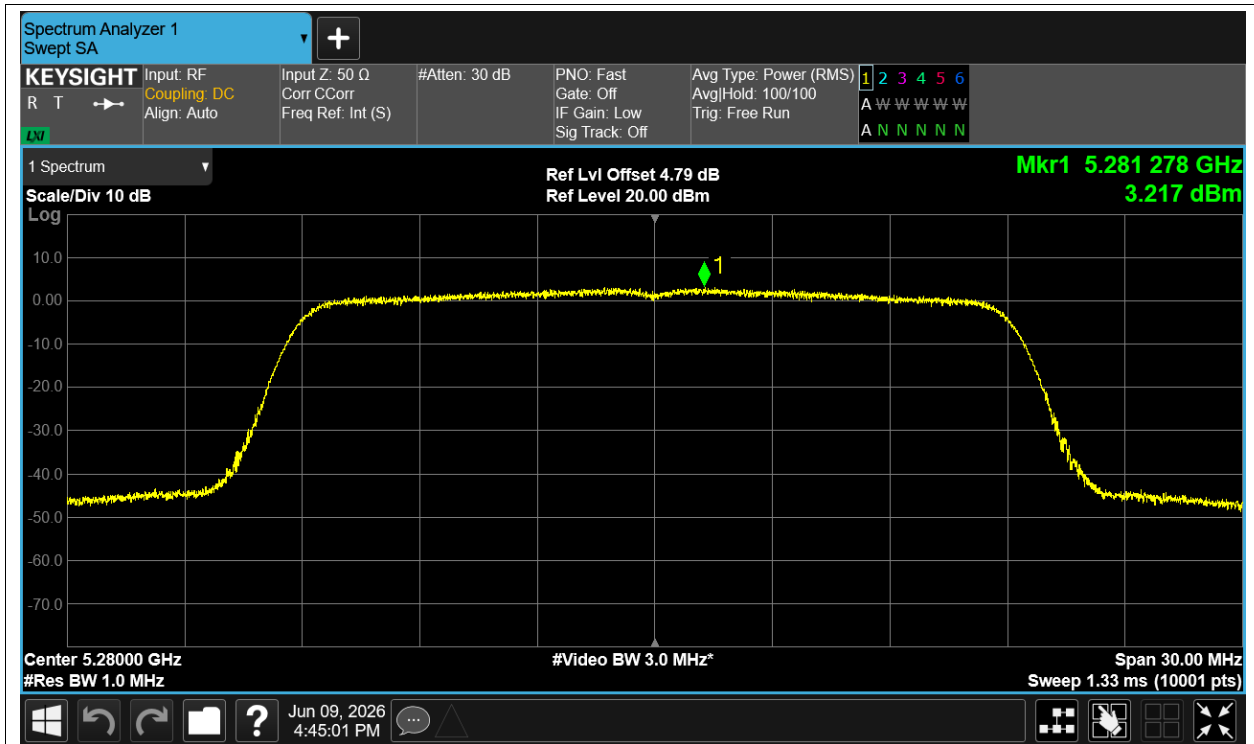
PSD NVNT ac20 5260MHz Ant1



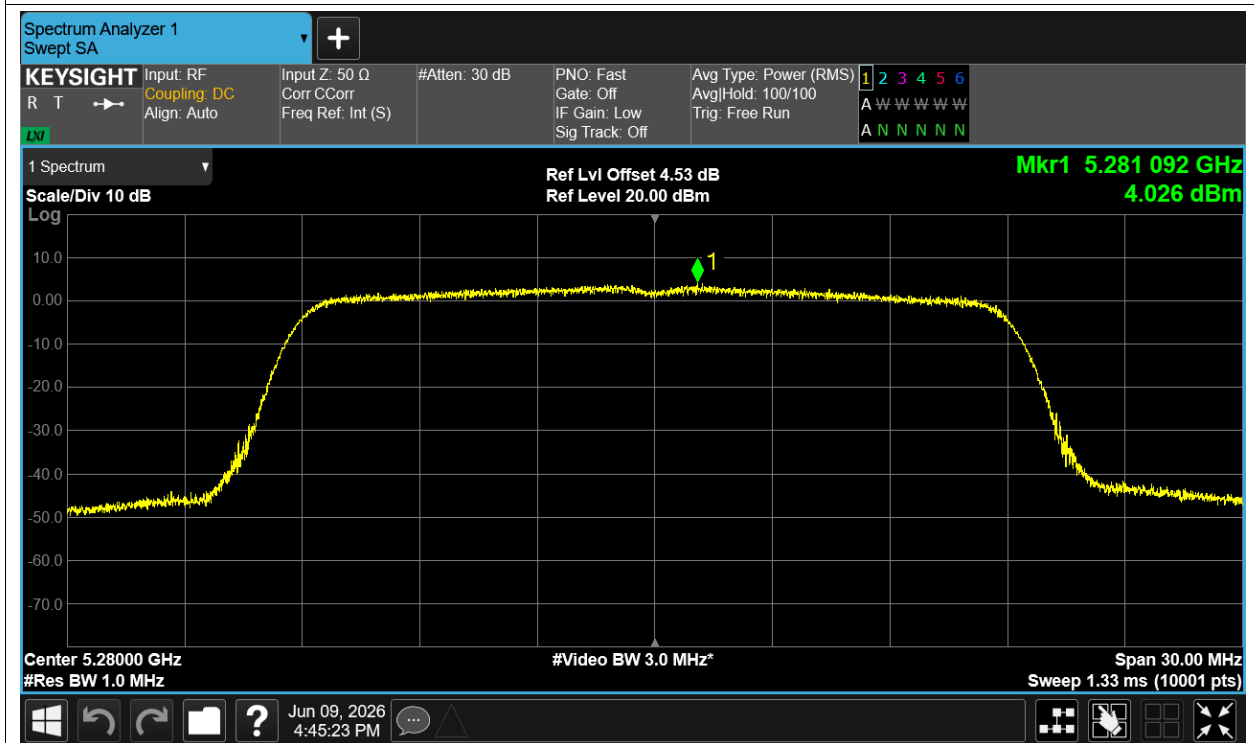
PSD NVNT ac20 5260MHz Ant2



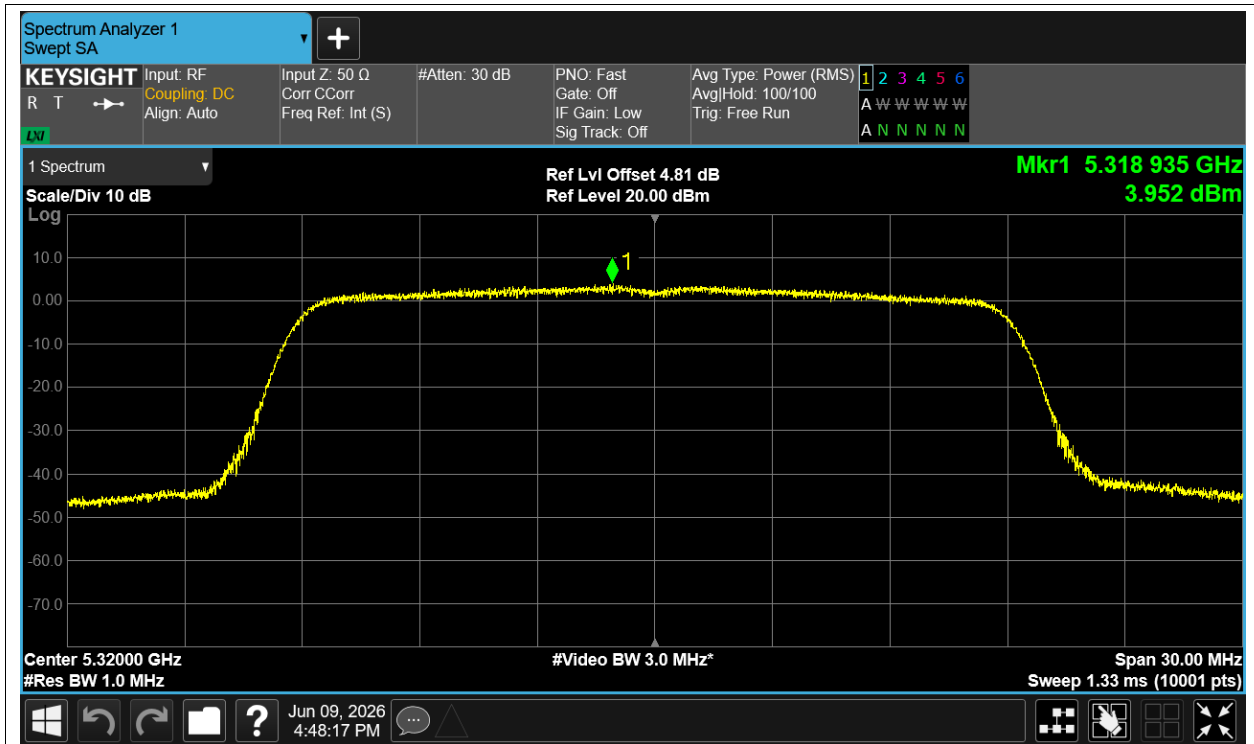
PSD NVNT ac20 5280MHz Ant1



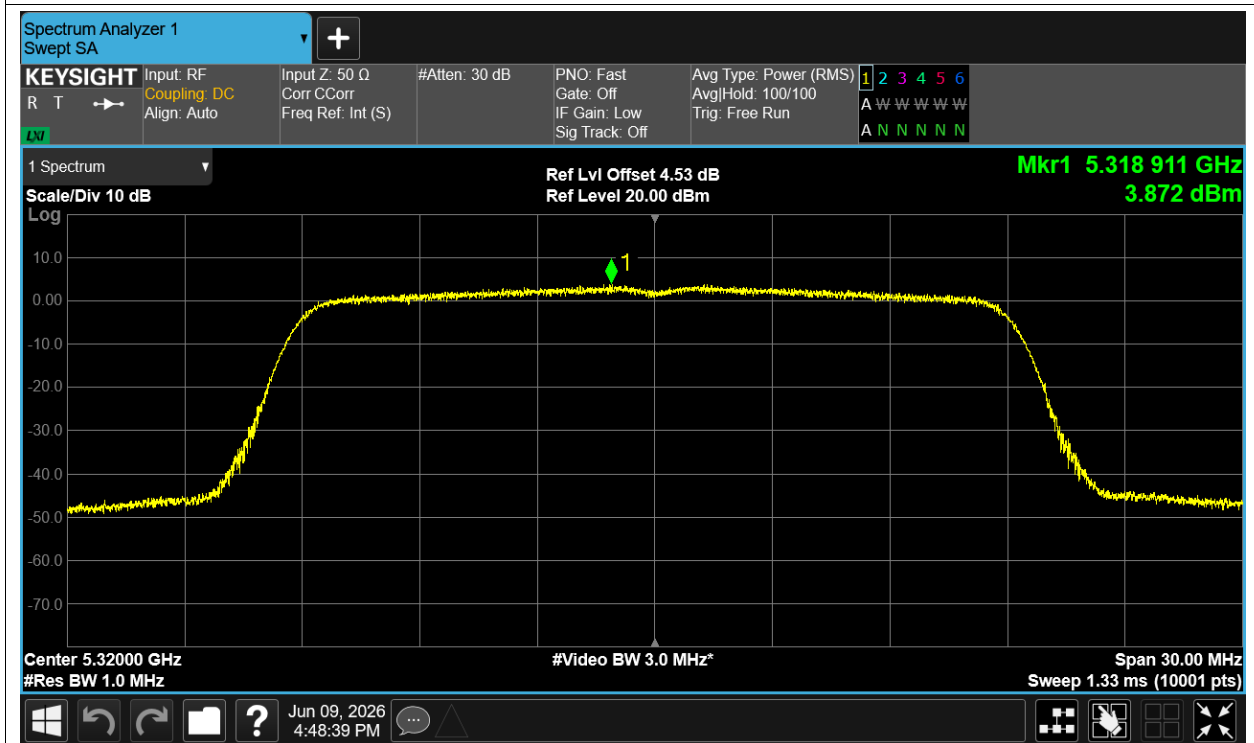
PSD NVNT ac20 5280MHz Ant2



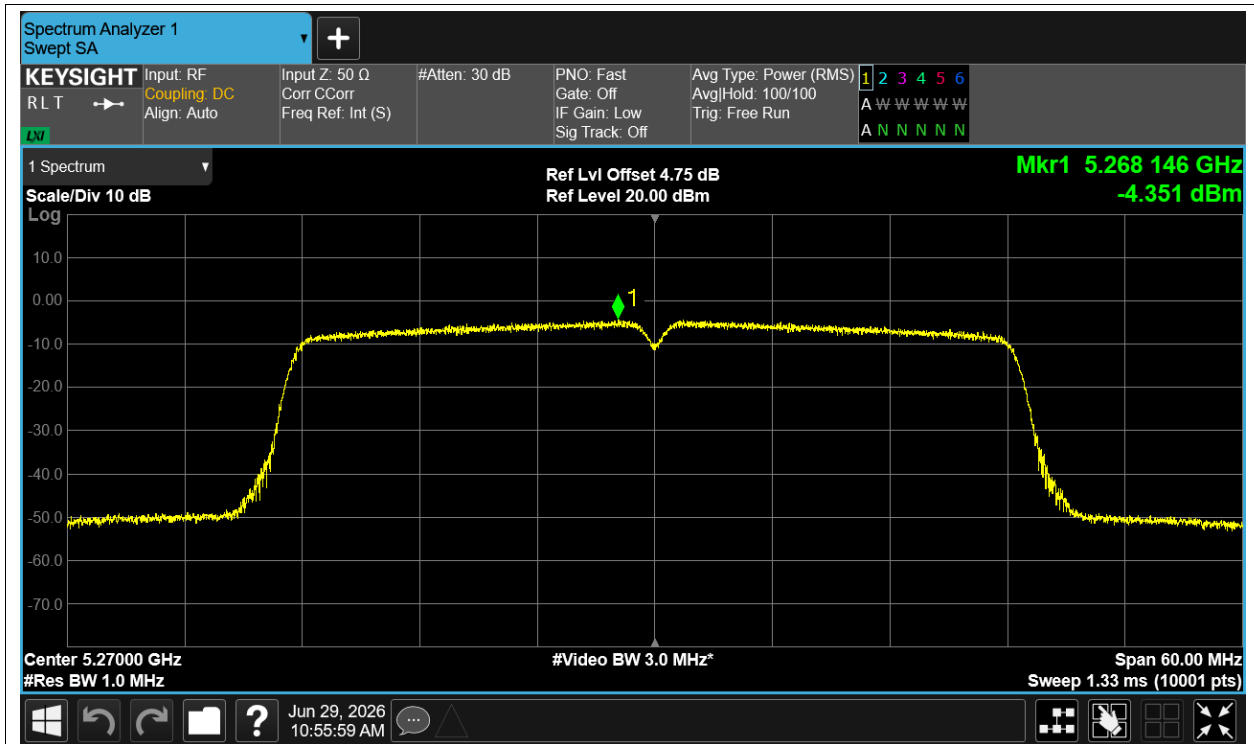
PSD NVNT ac20 5320MHz Ant1



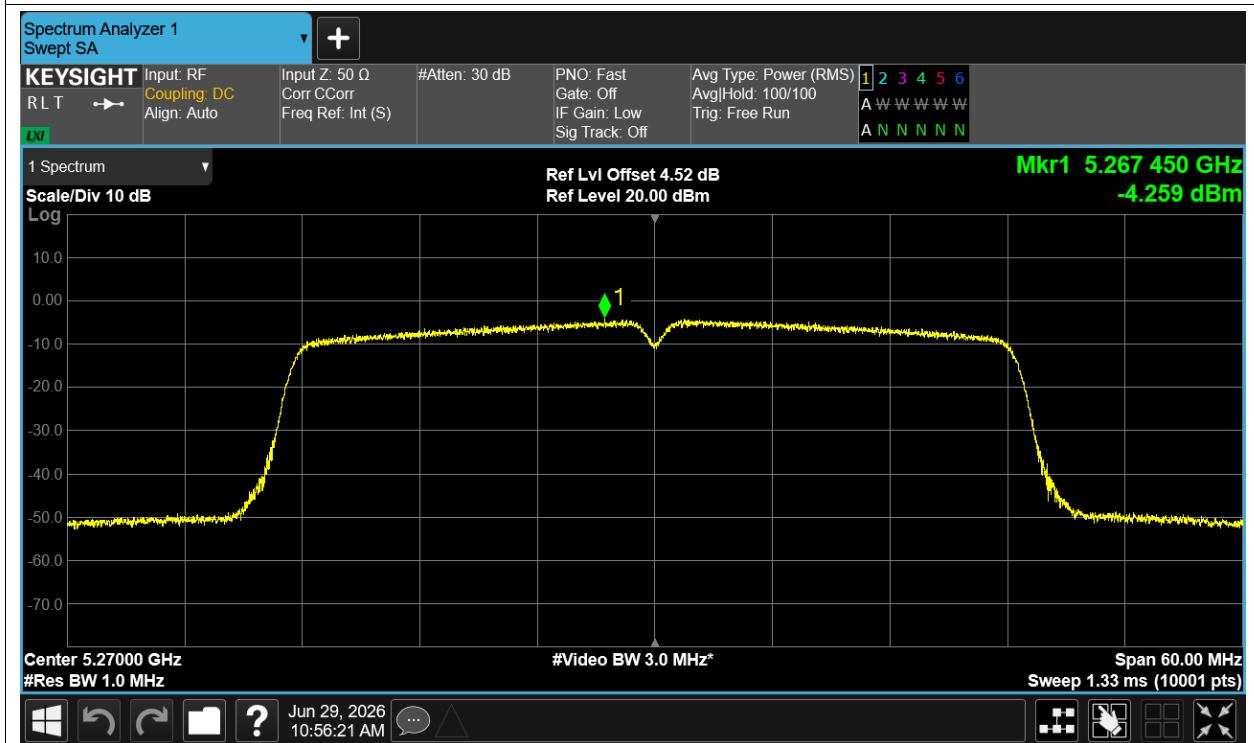
PSD NVNT ac20 5320MHz Ant2



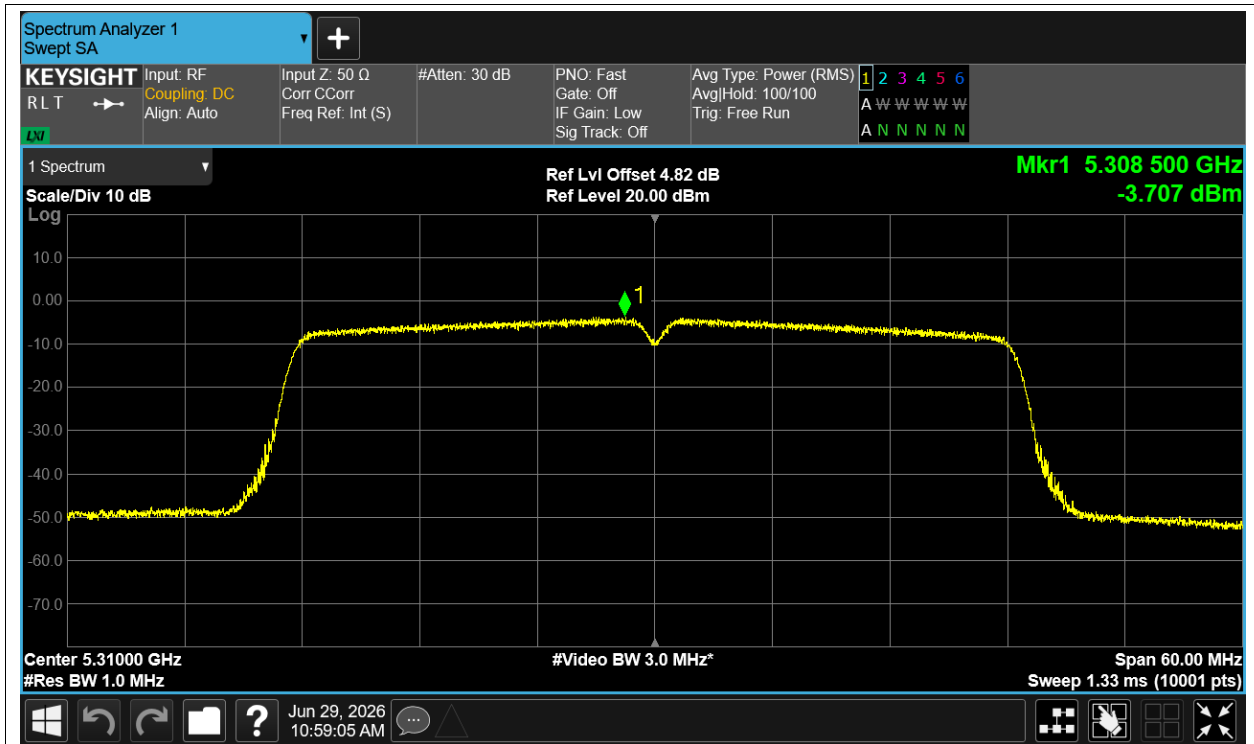
PSD NVNT ac40 5270MHz Ant1



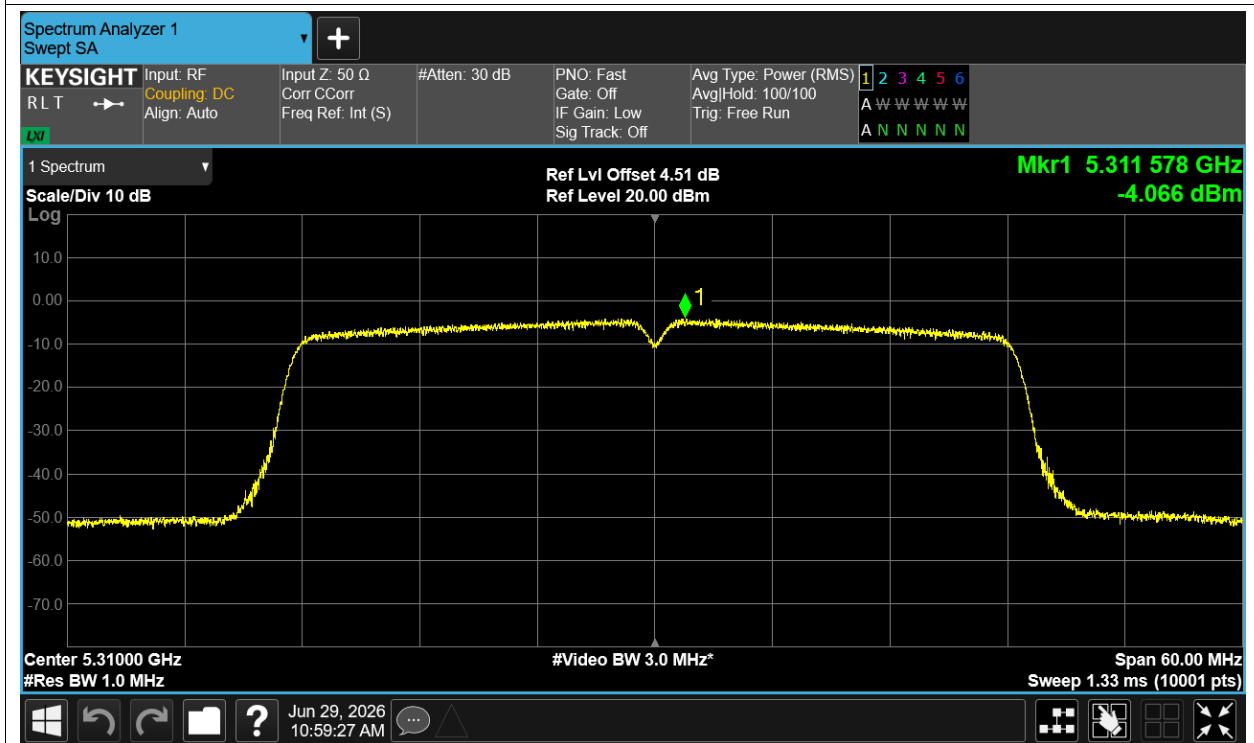
PSD NVNT ac40 5270MHz Ant2



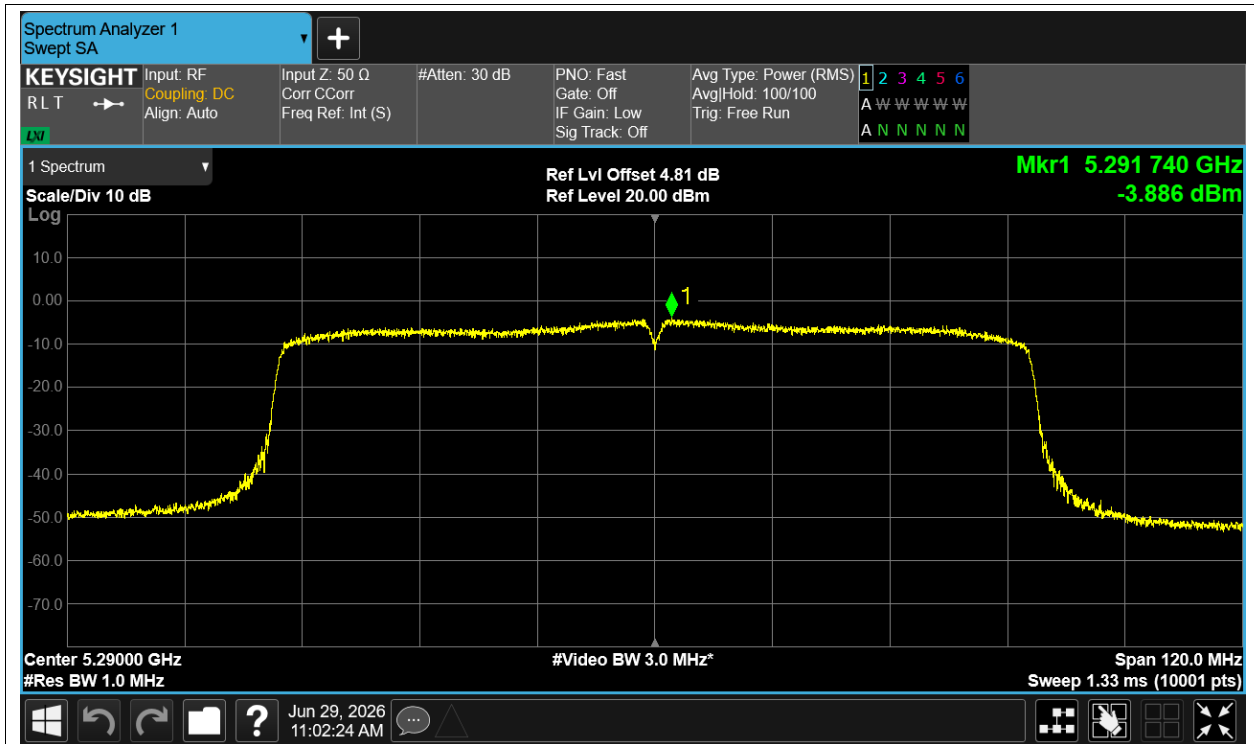
PSD NVNT ac40 5310MHz Ant1



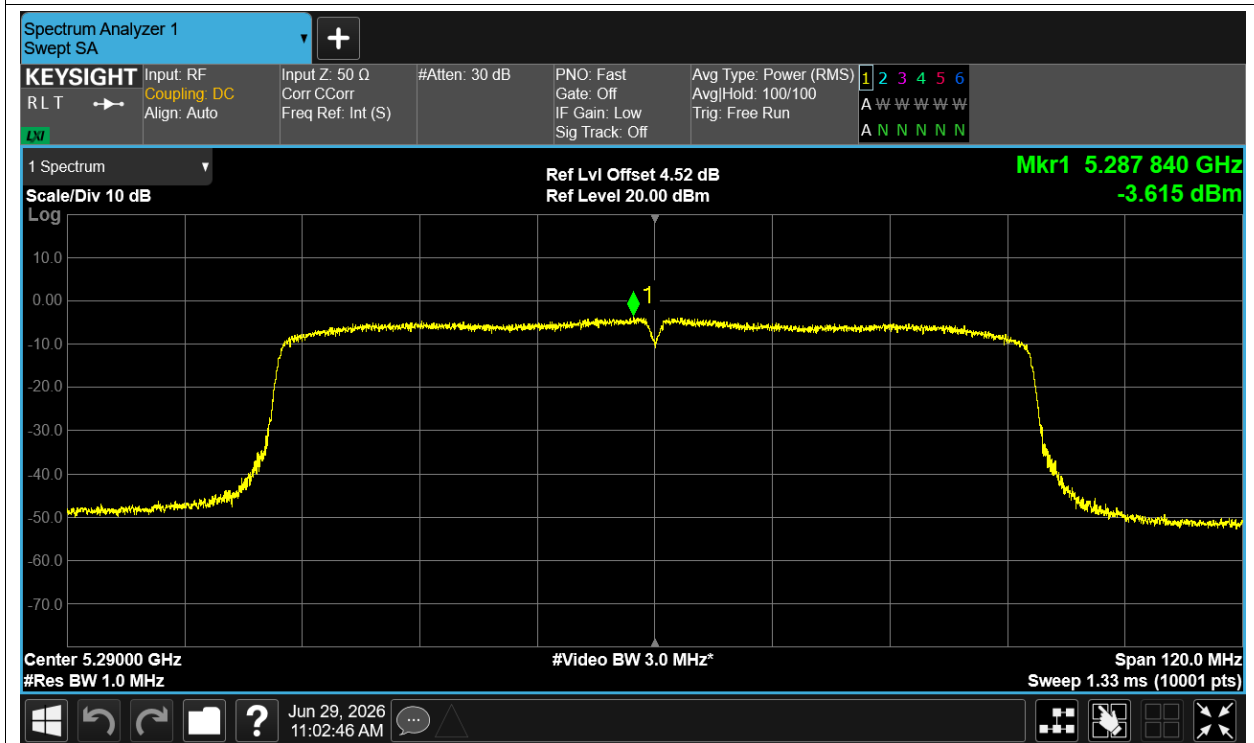
PSD NVNT ac40 5310MHz Ant2



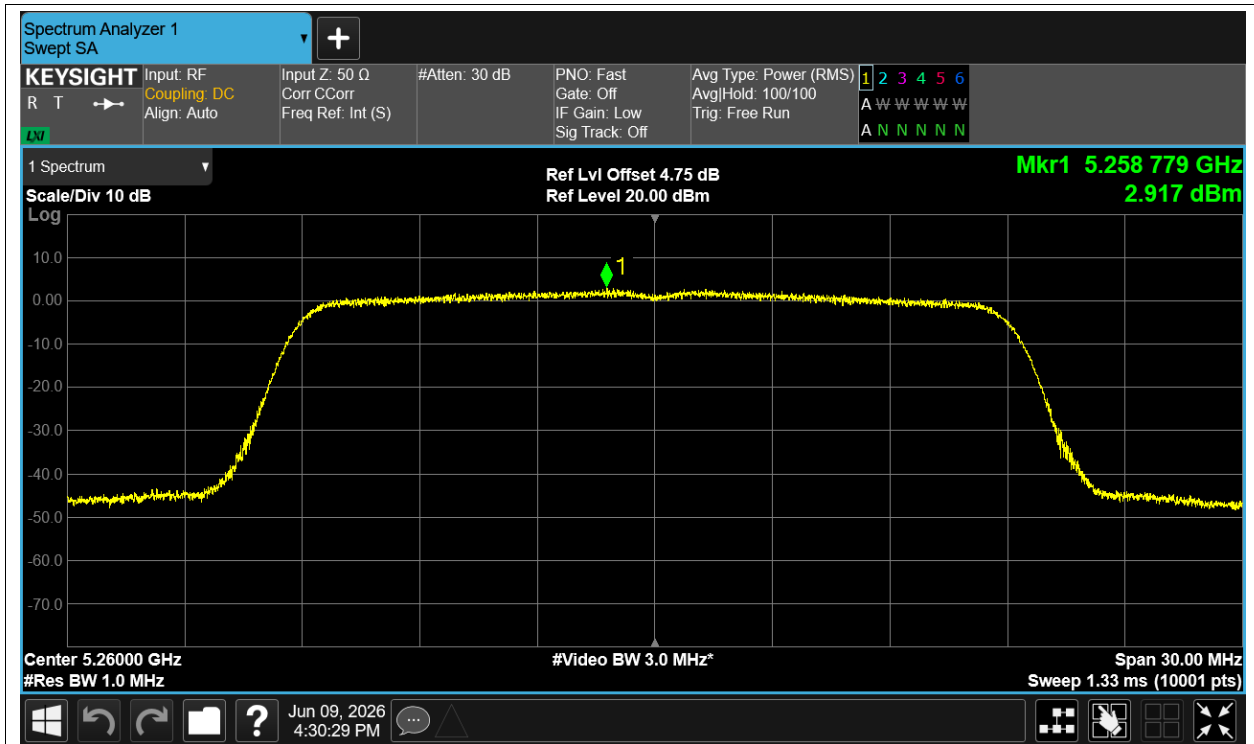
PSD NVNT ac80 5290MHz Ant1



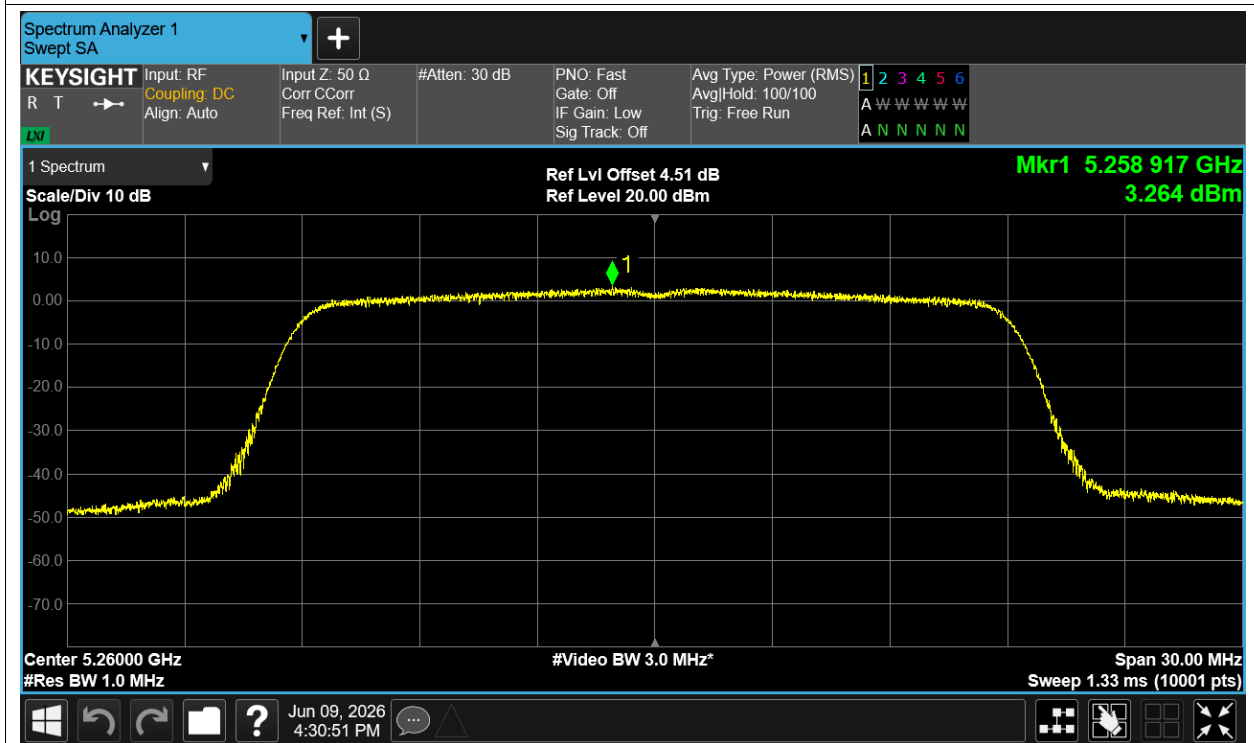
PSD NVNT ac80 5290MHz Ant2



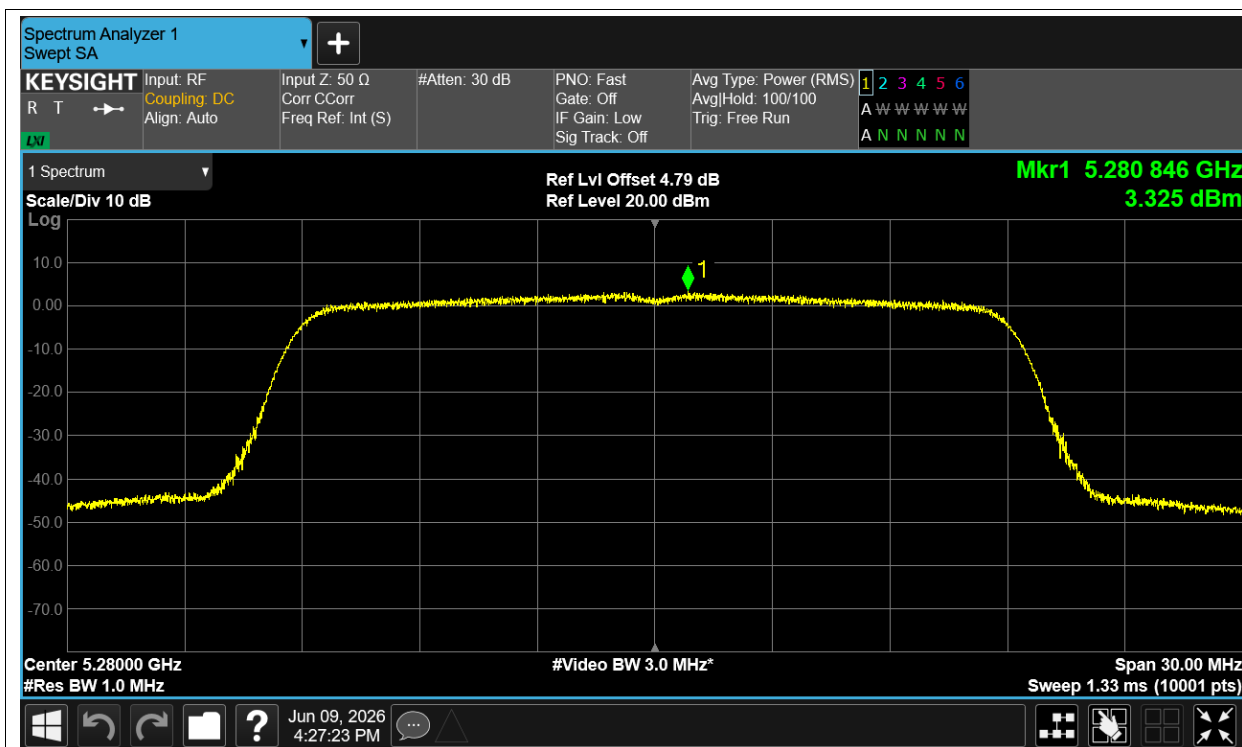
PSD NVNT n20 5260MHz Ant1



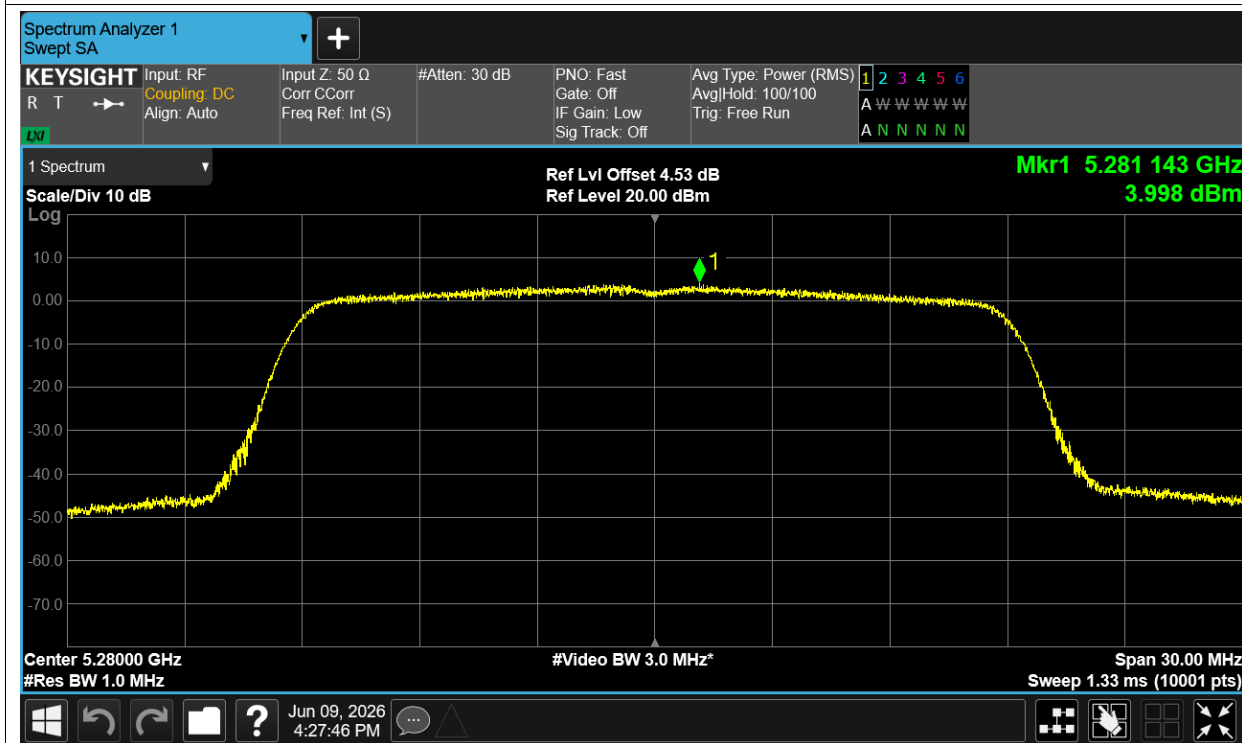
PSD NVNT n20 5260MHz Ant2



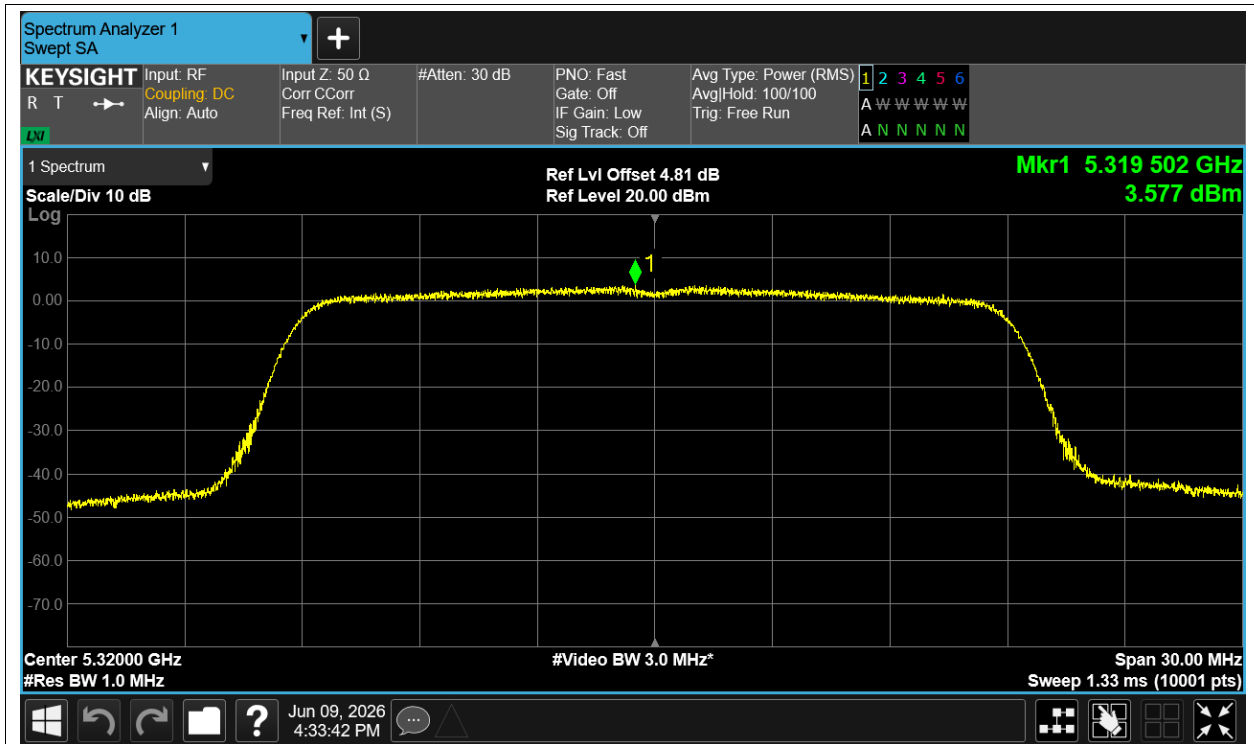
PSD NVNT n20 5280MHz Ant1



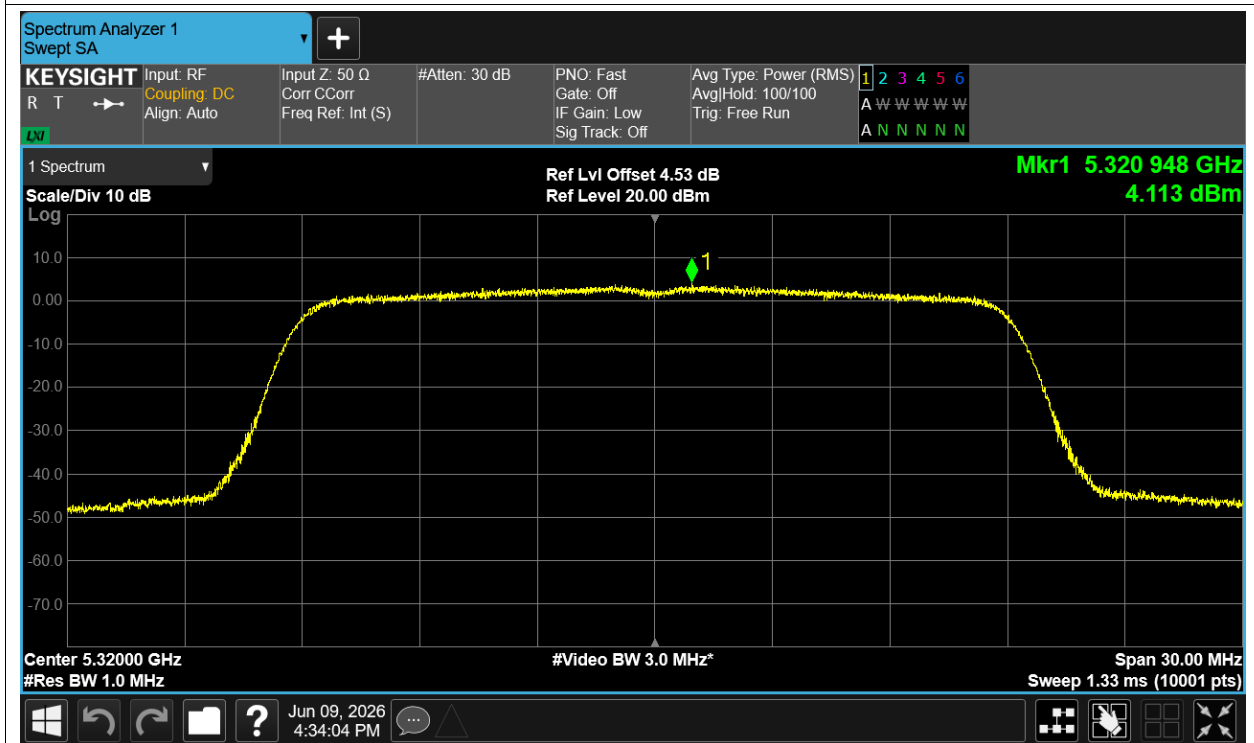
PSD NVNT n20 5280MHz Ant2



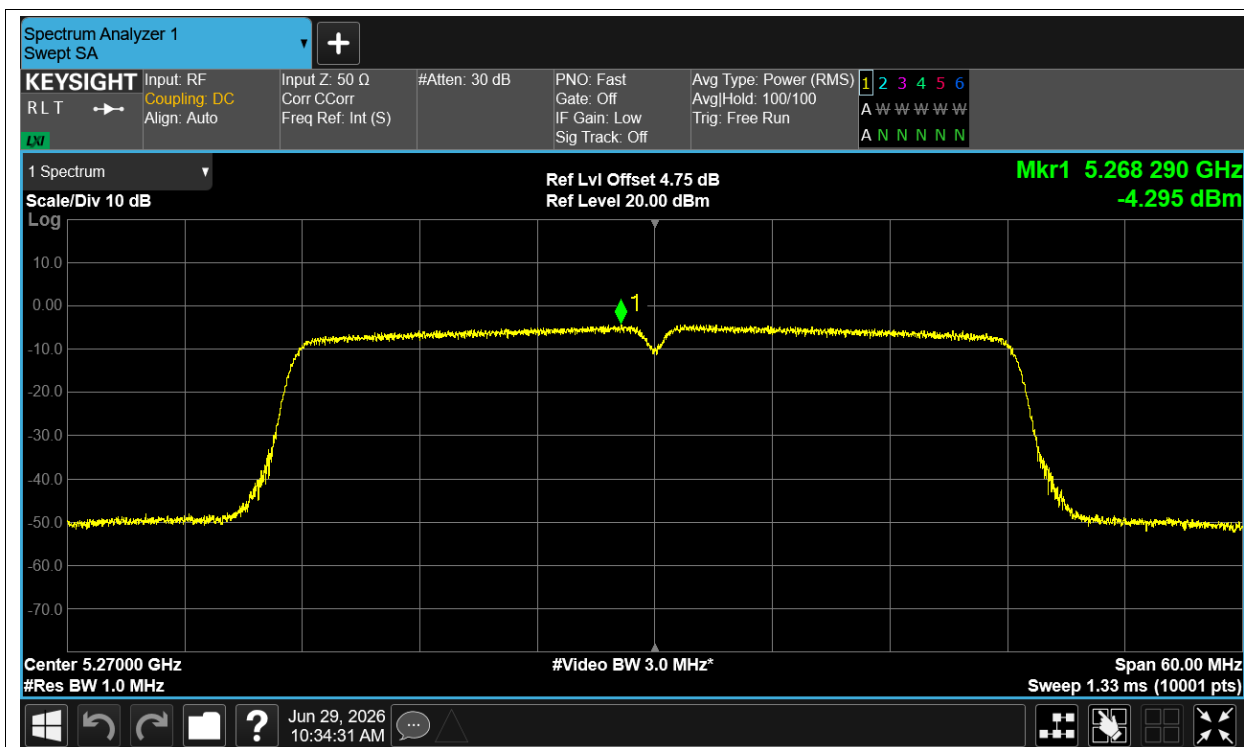
PSD NVNT n20 5320MHz Ant1



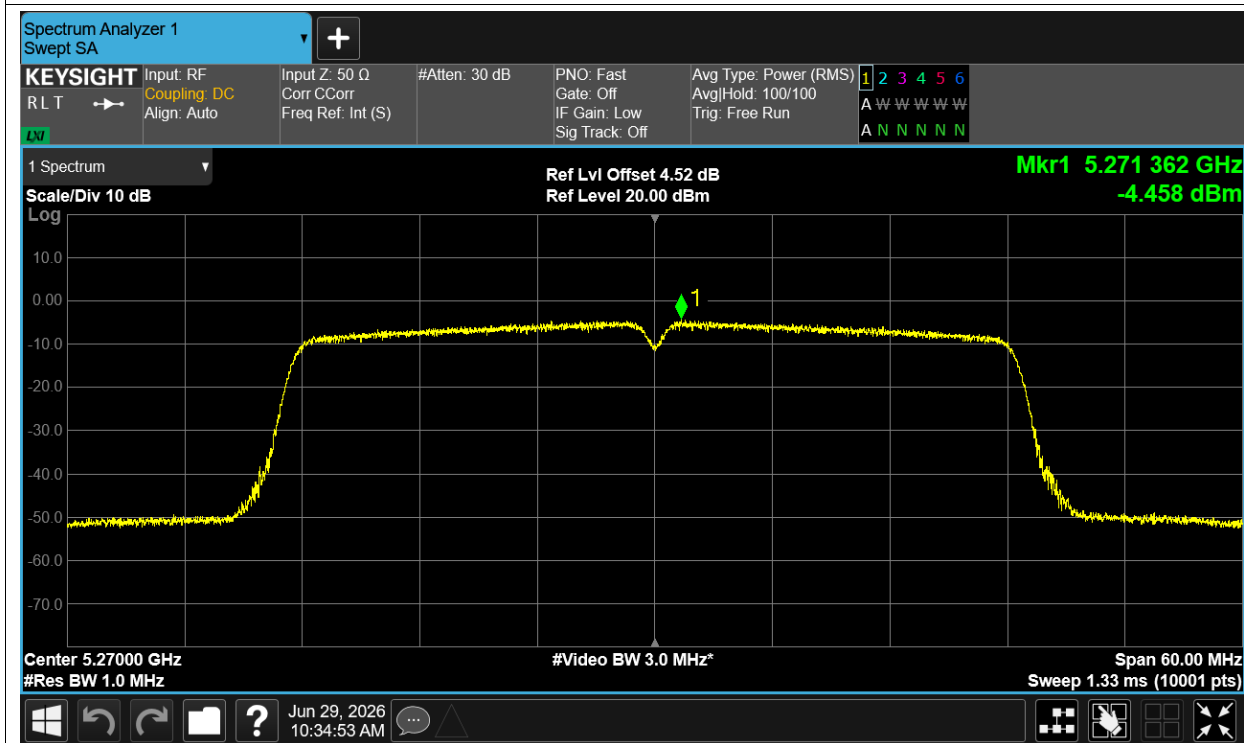
PSD NVNT n20 5320MHz Ant2



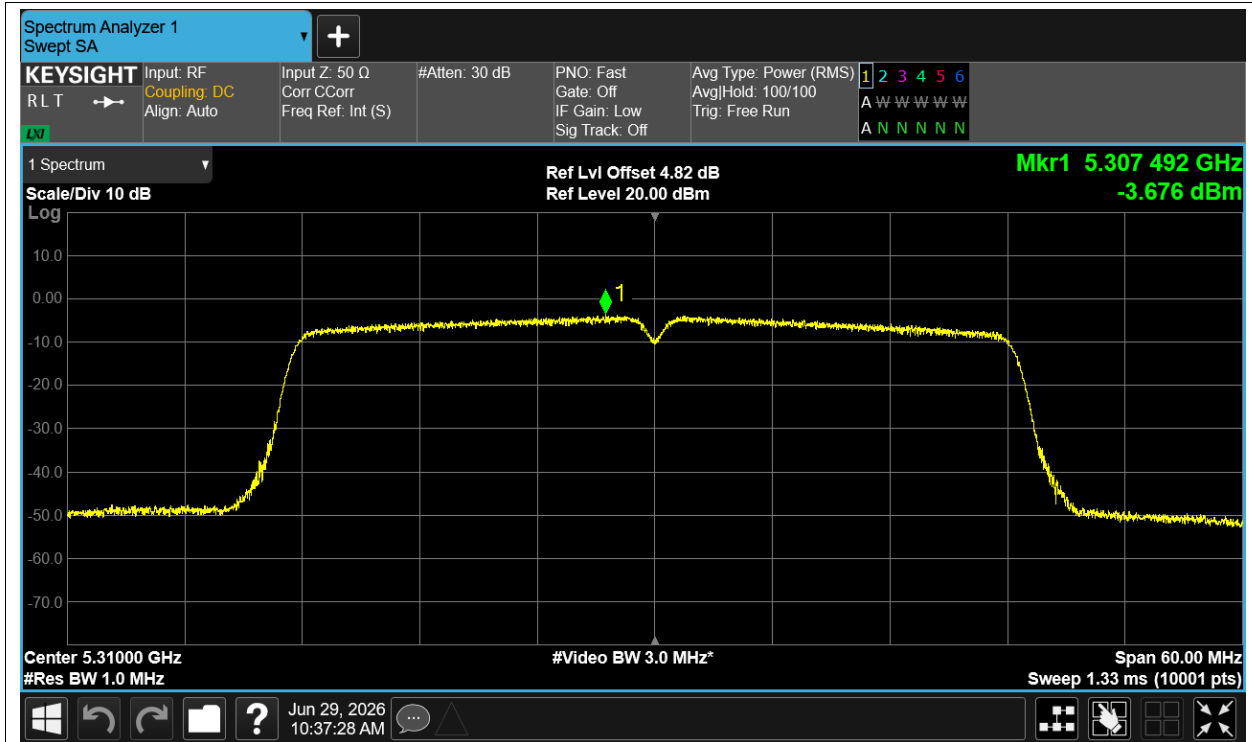
PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5270MHz Ant2



PSD NVNT n40 5310MHz Ant1



PSD NVNT n40 5310MHz Ant2

