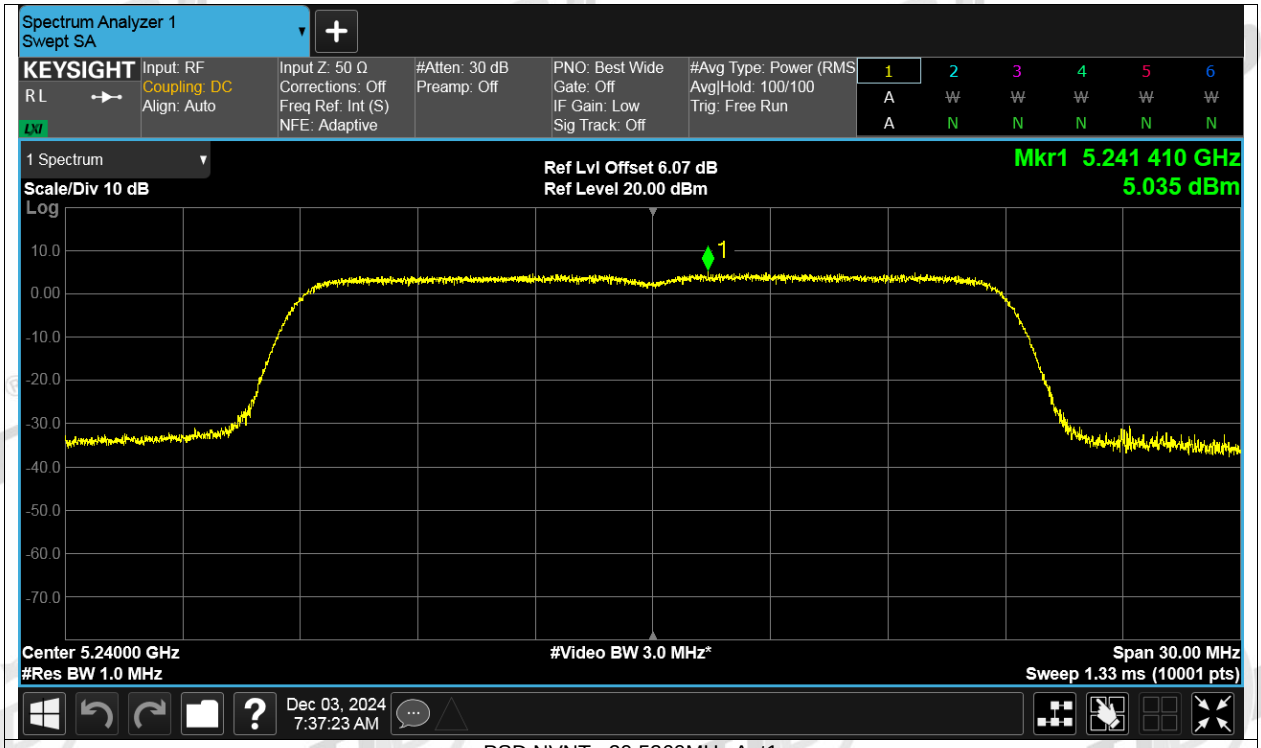

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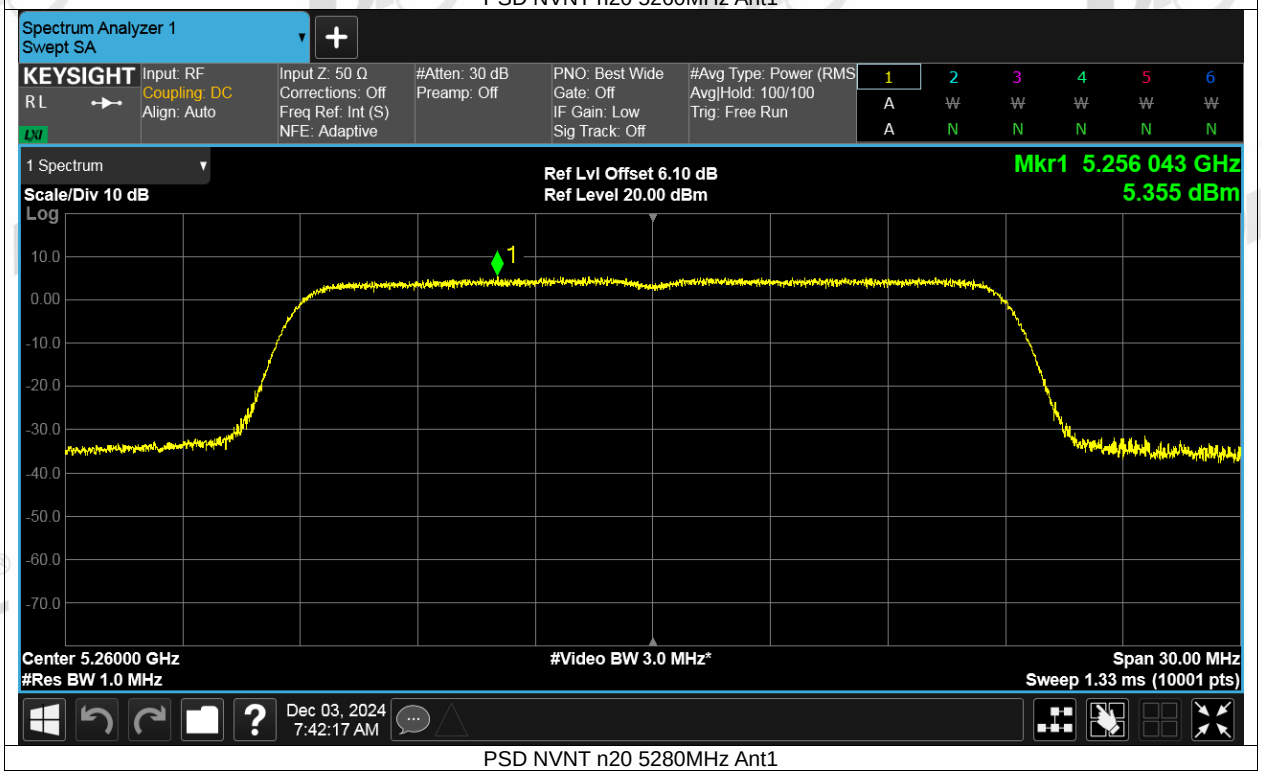

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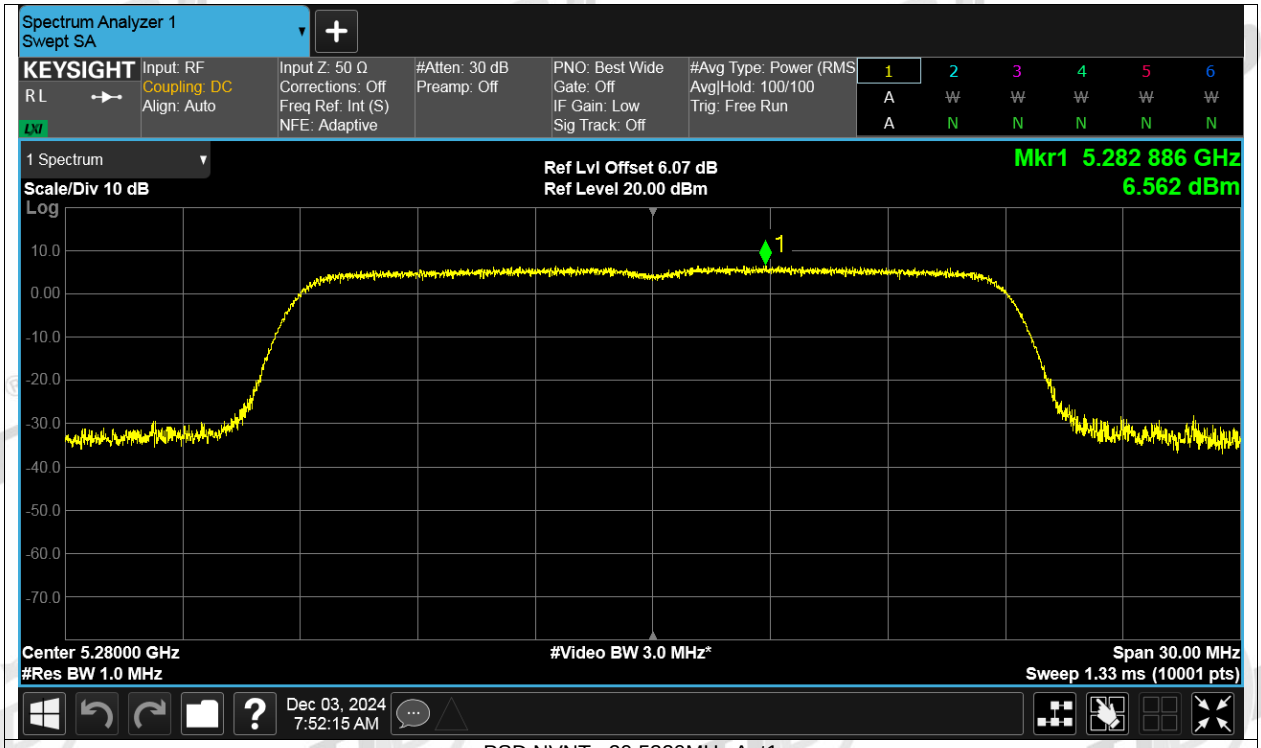

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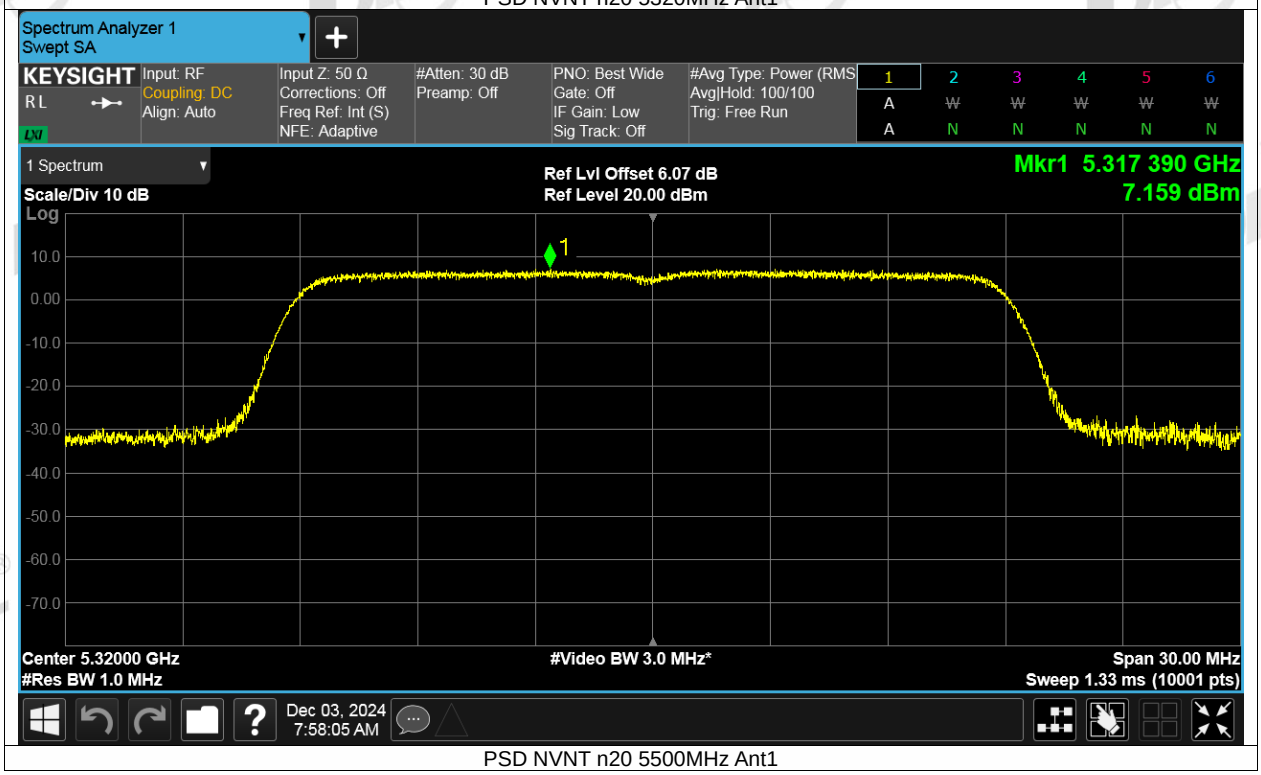

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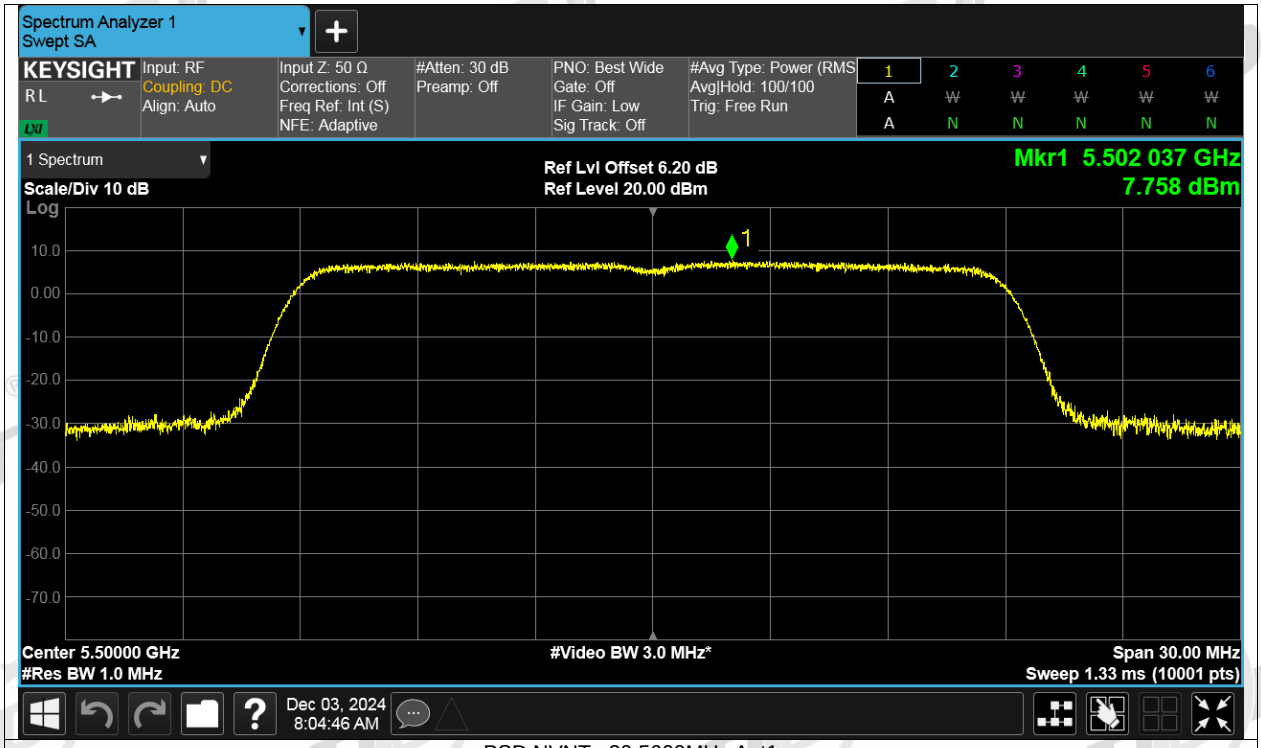

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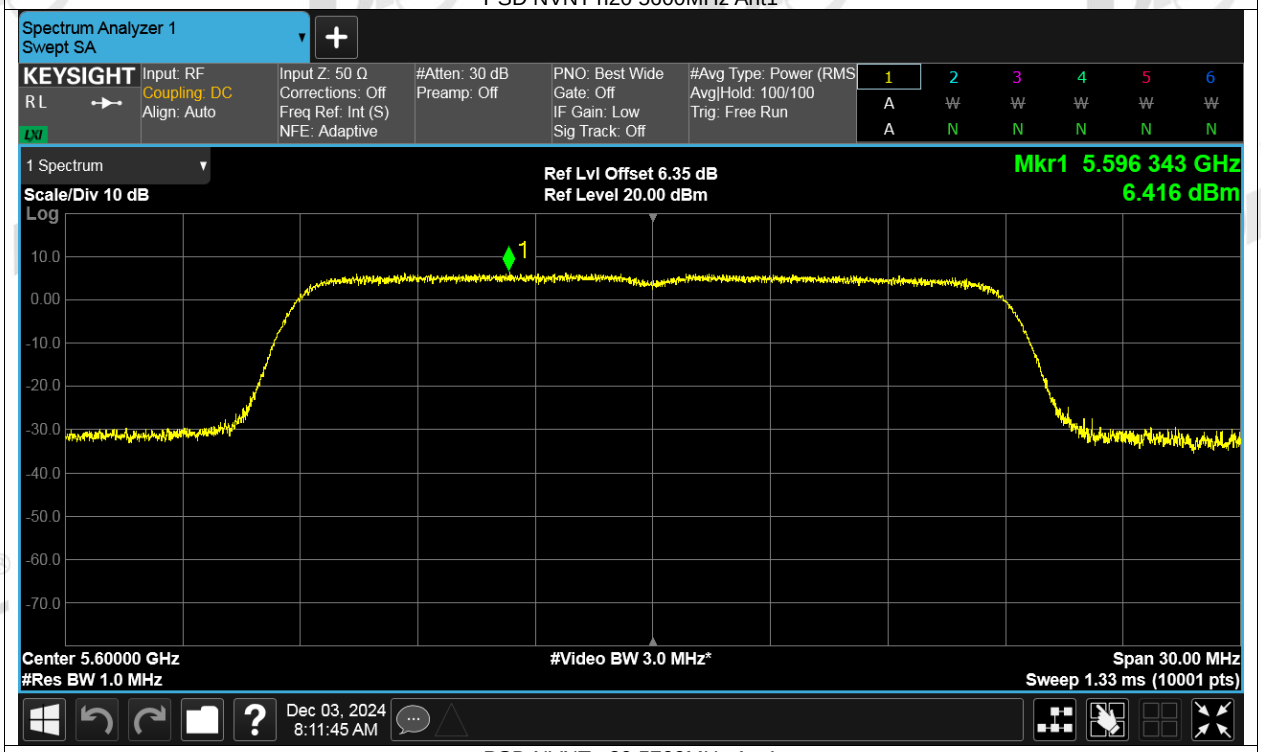

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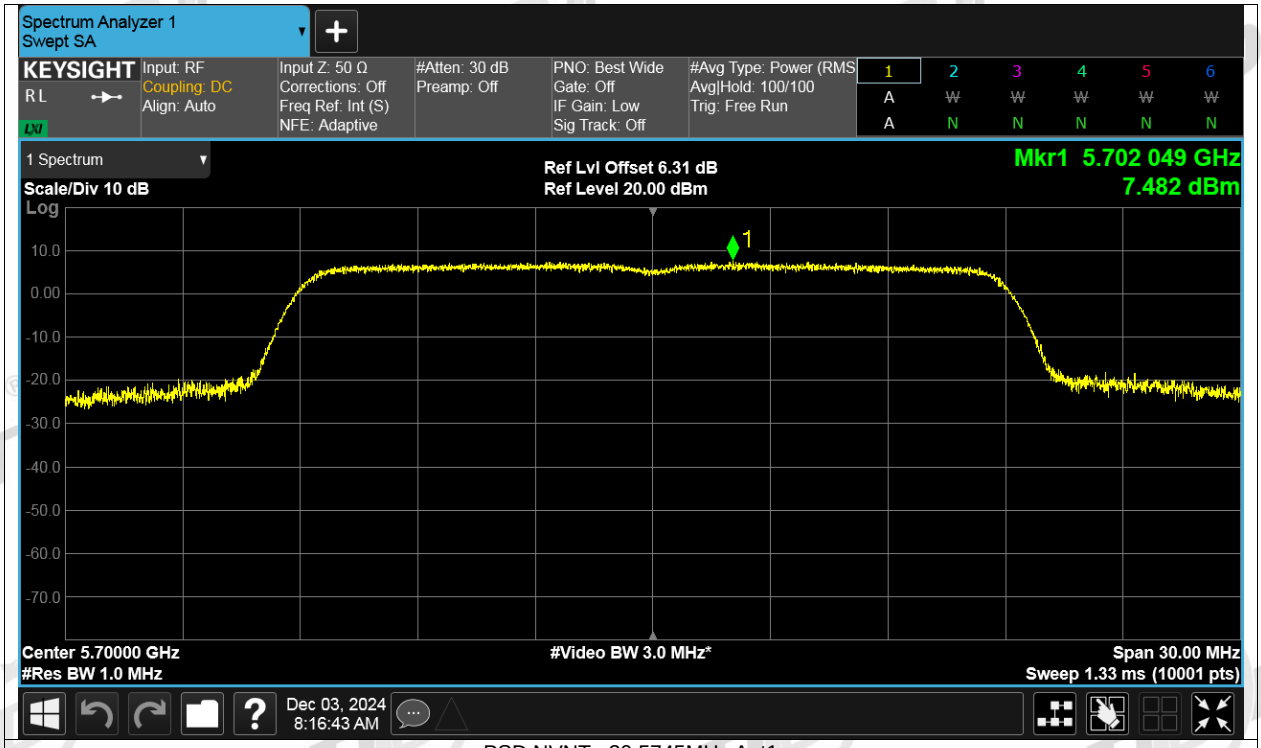

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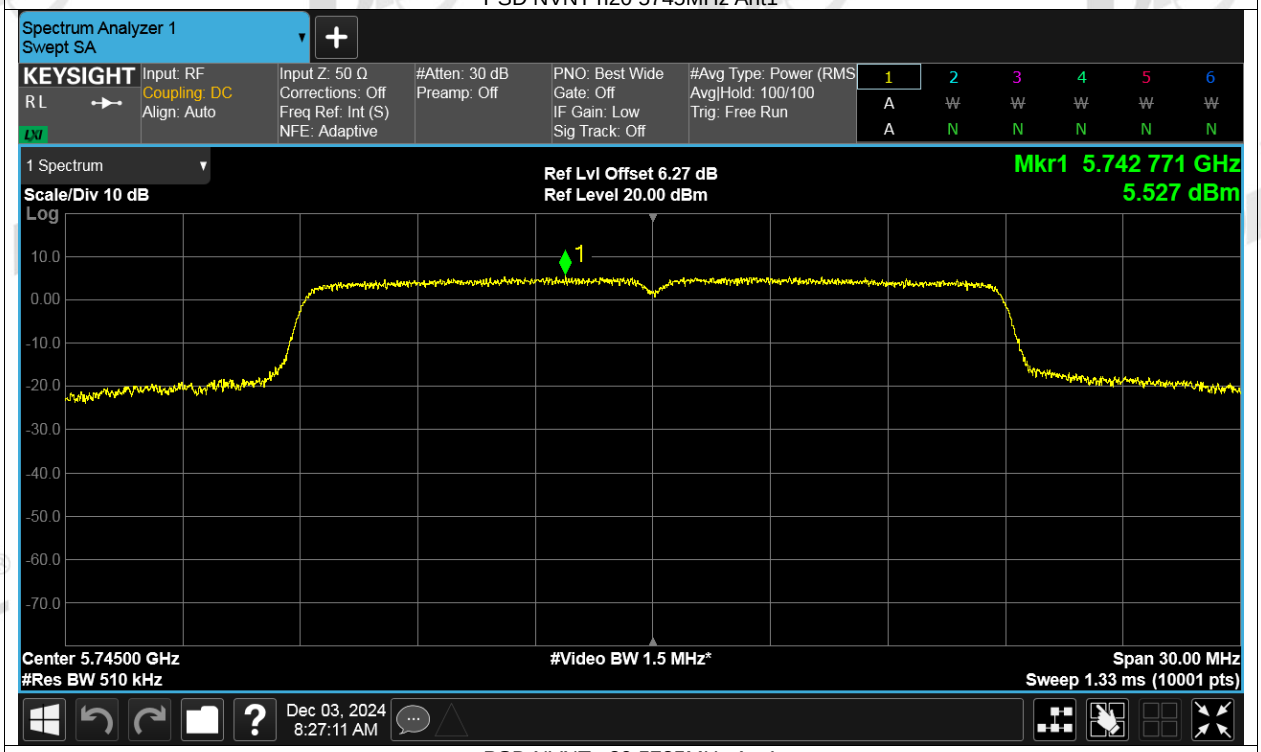

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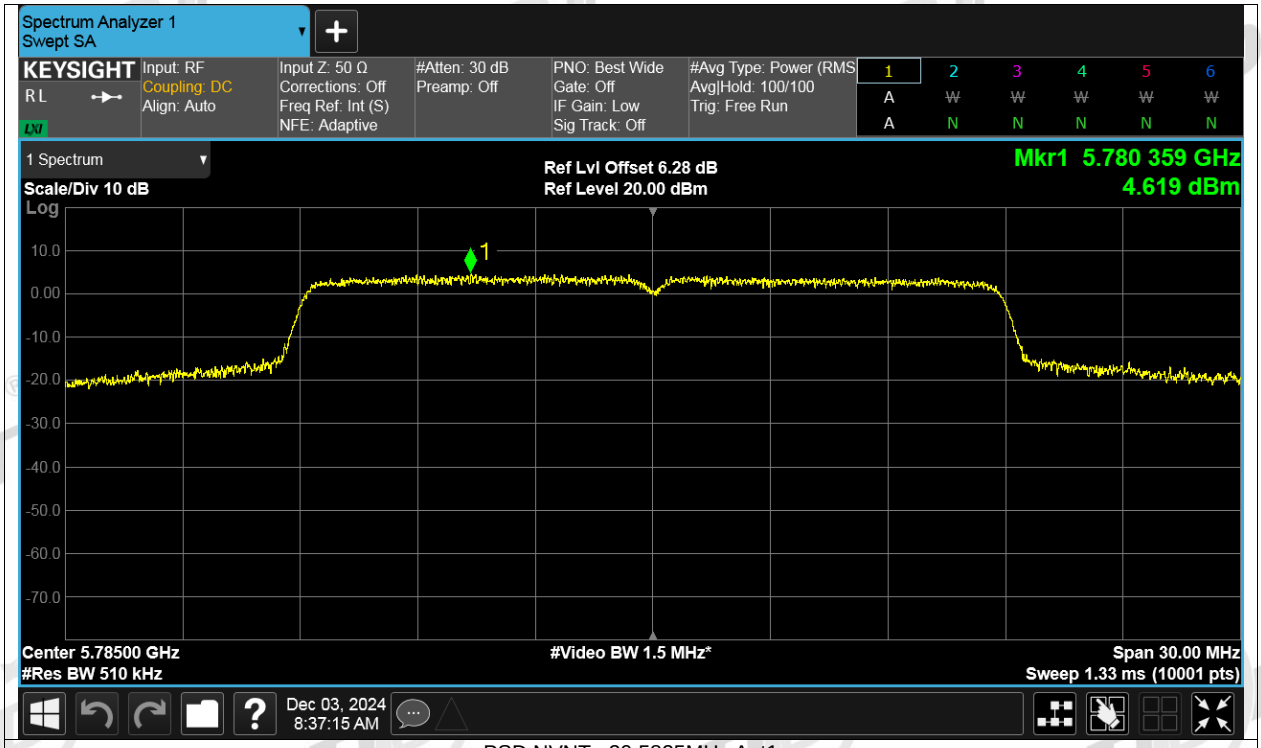

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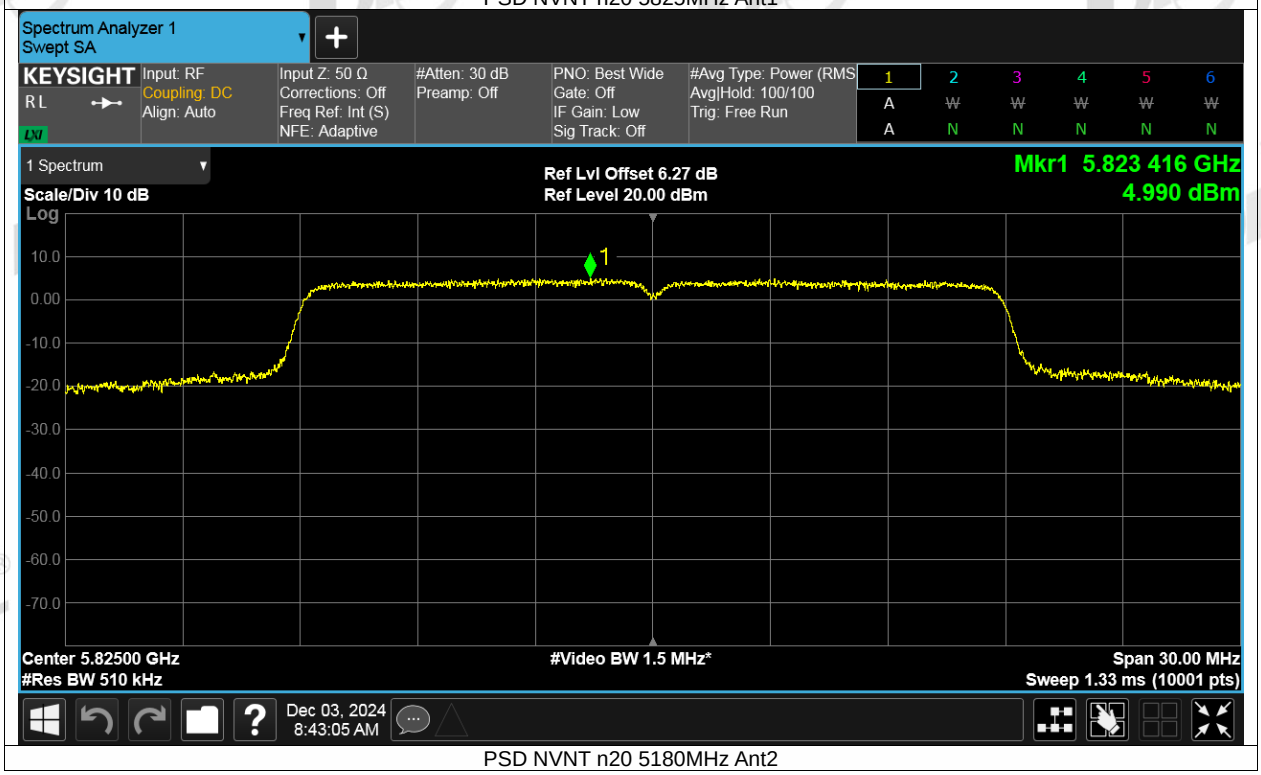

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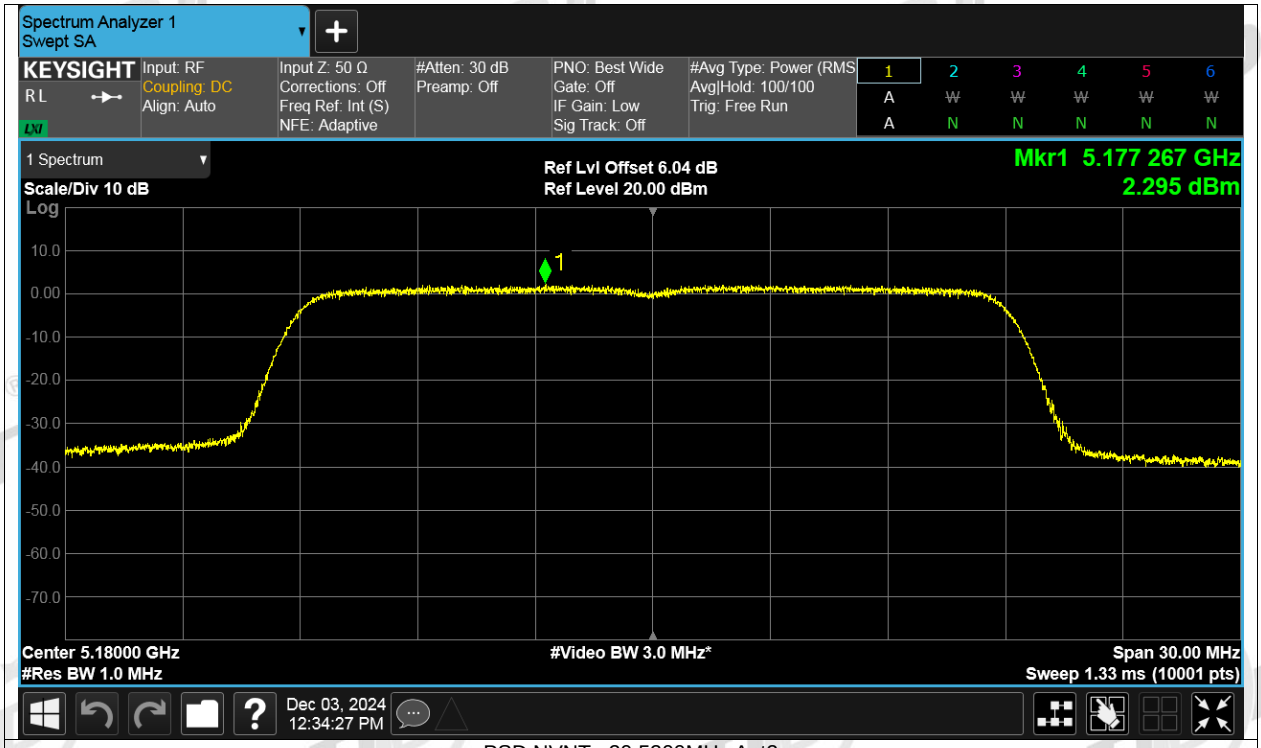

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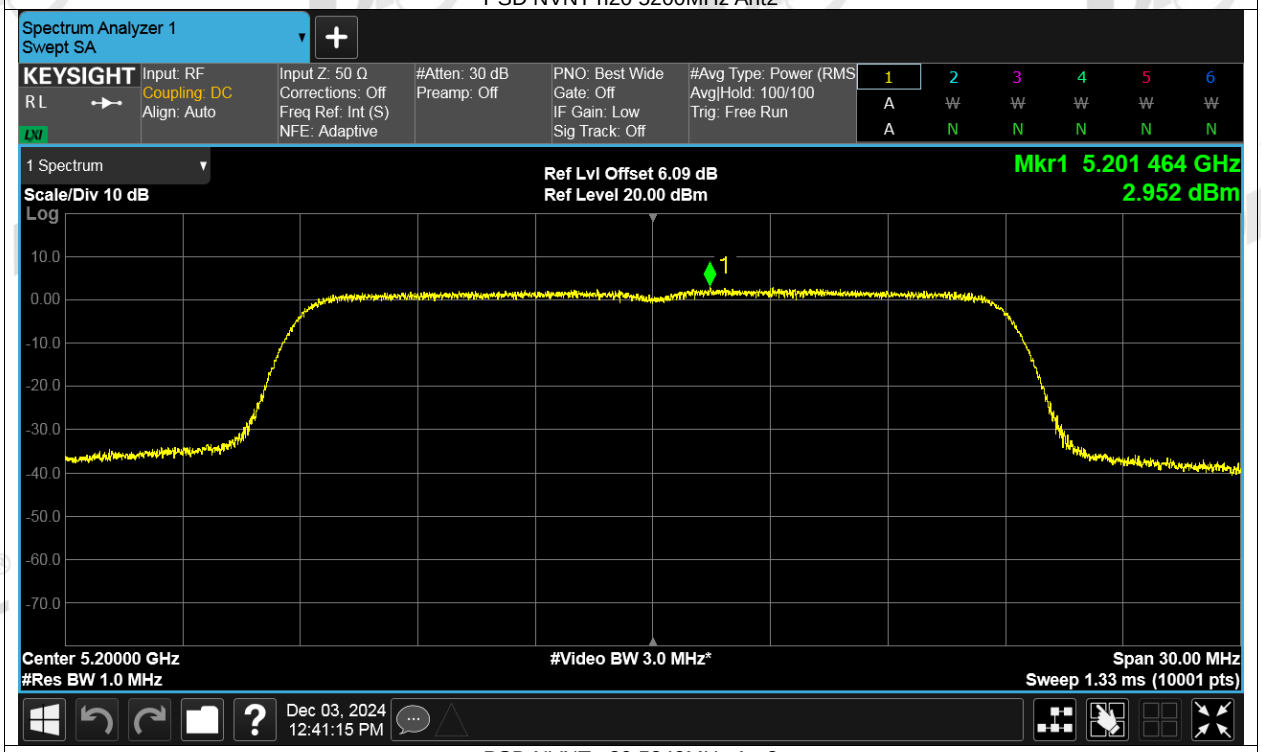

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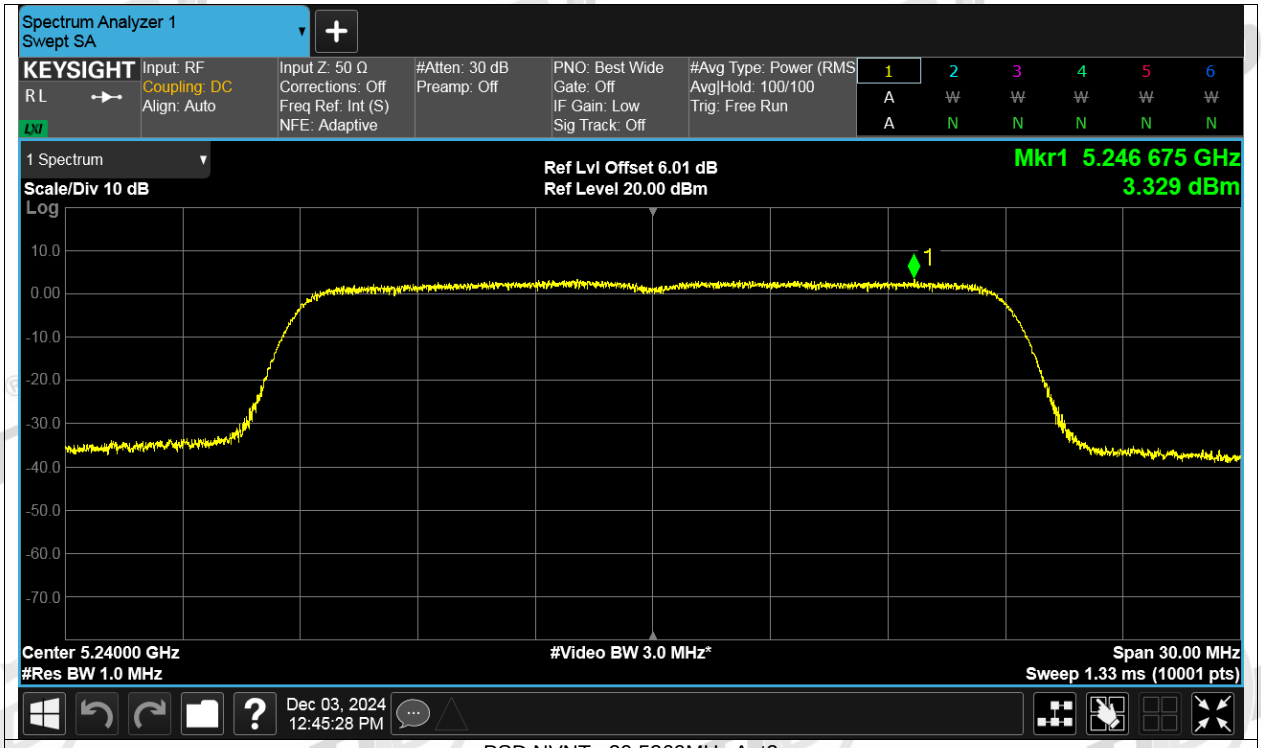

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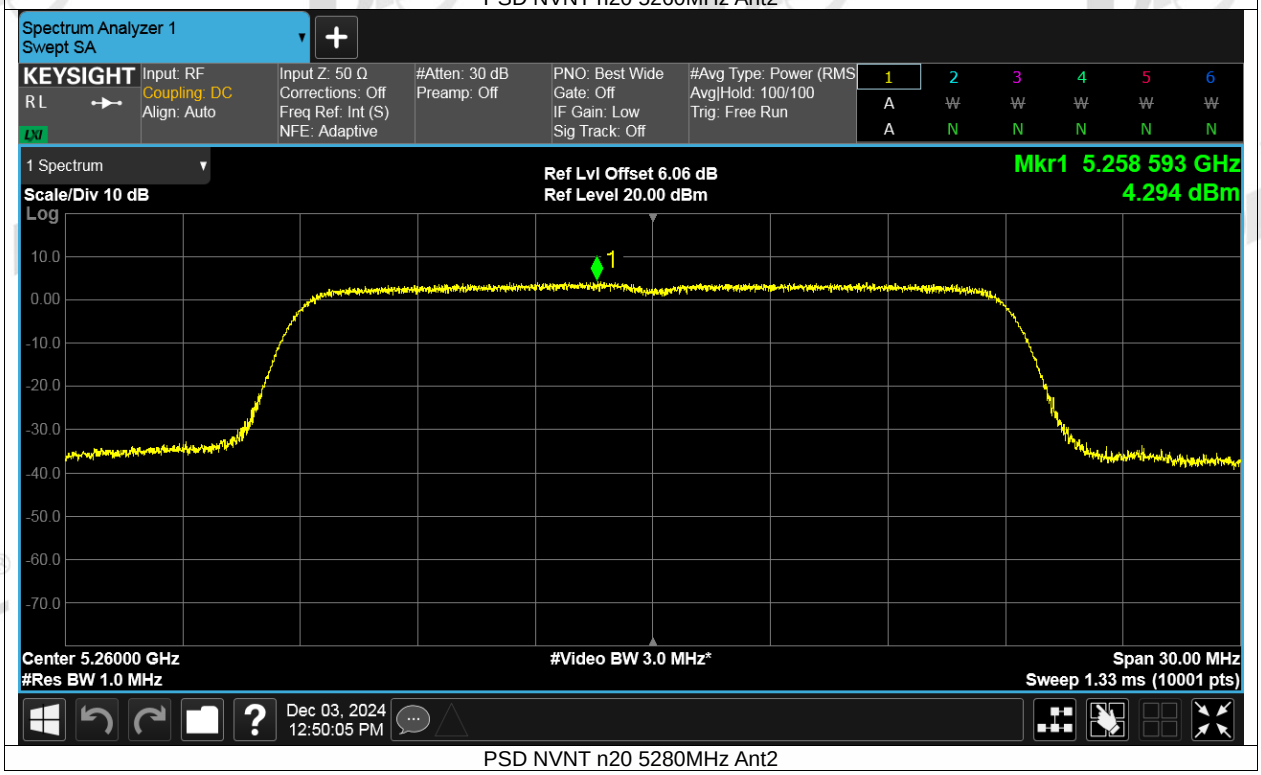

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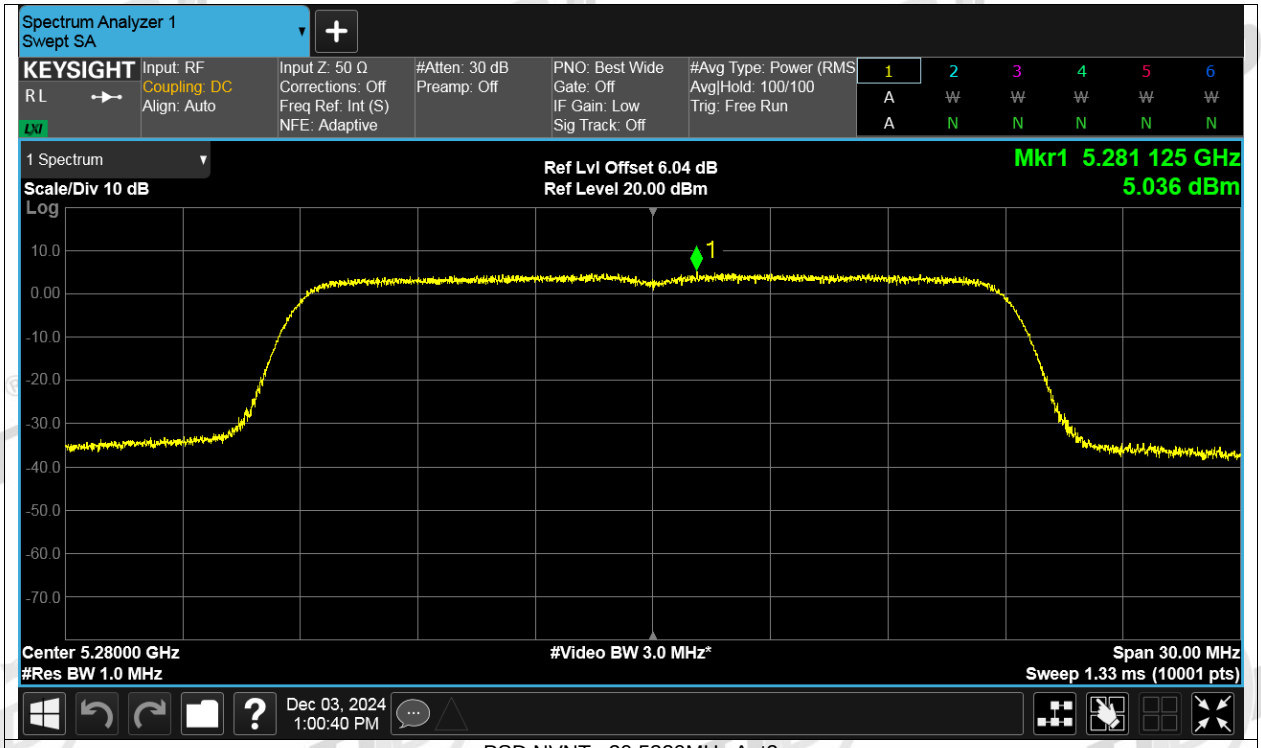

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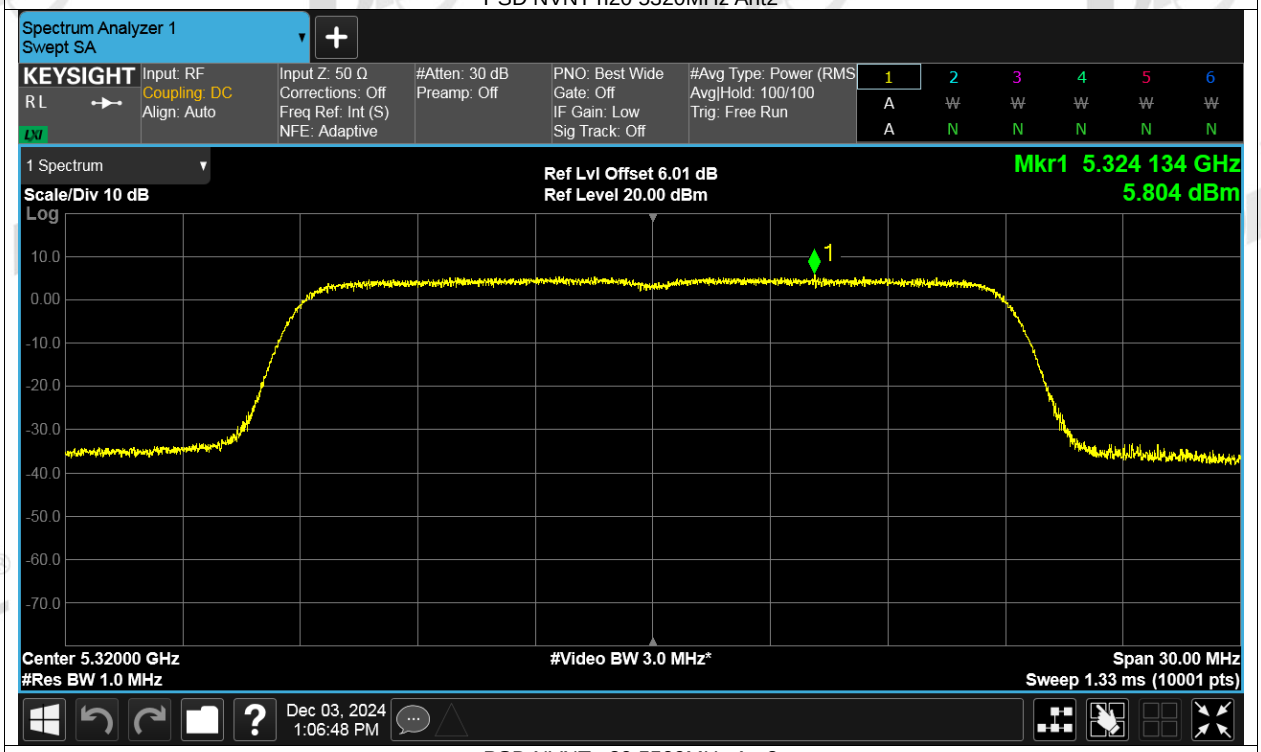

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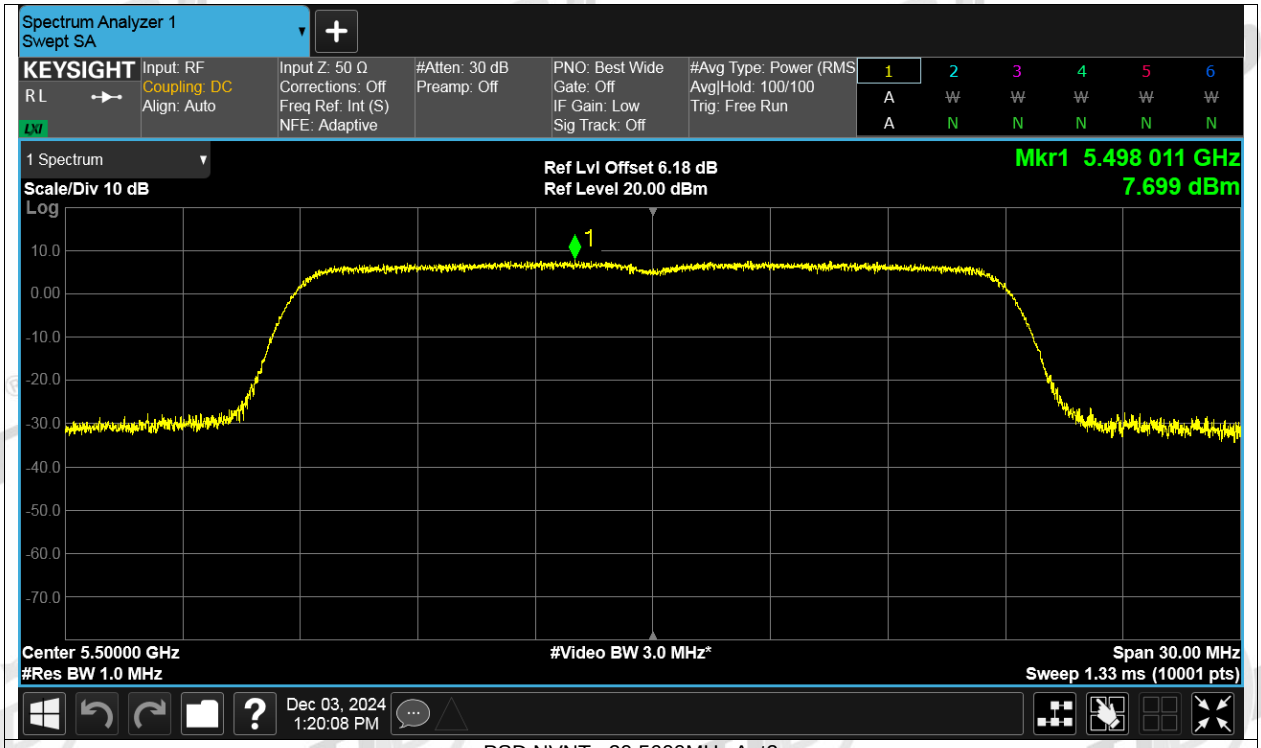

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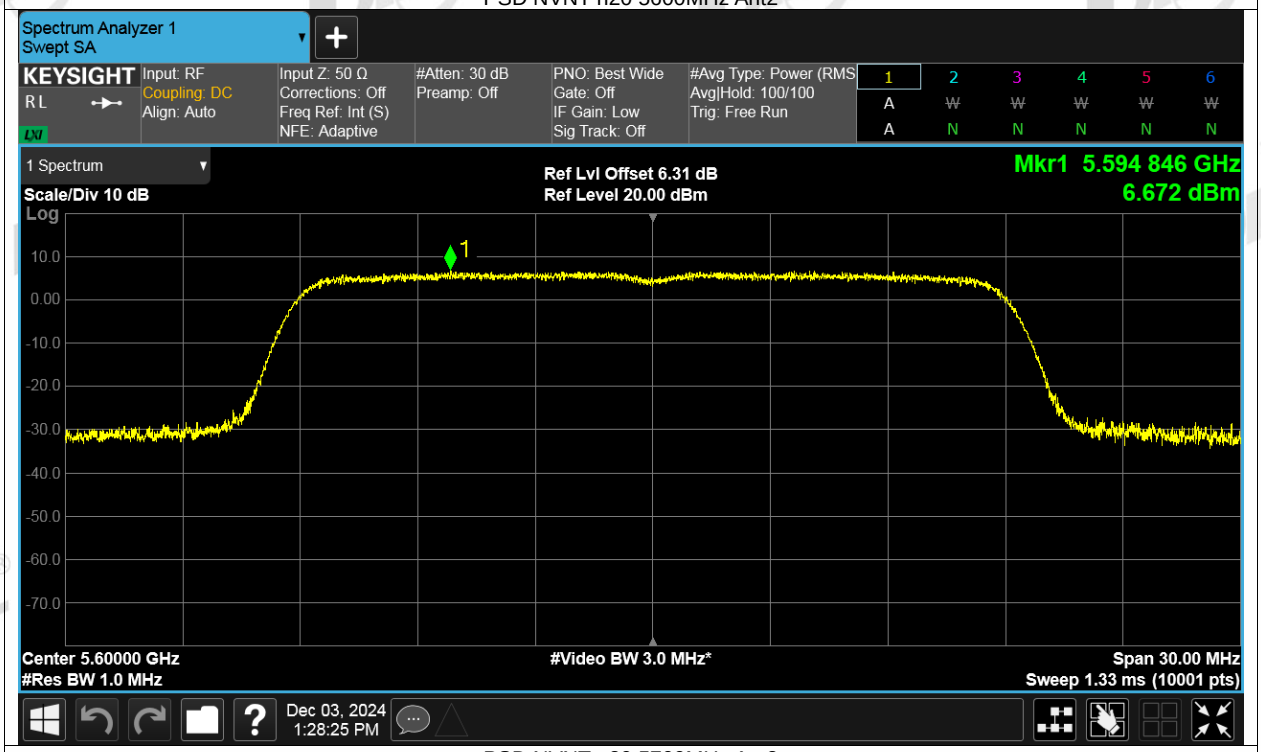

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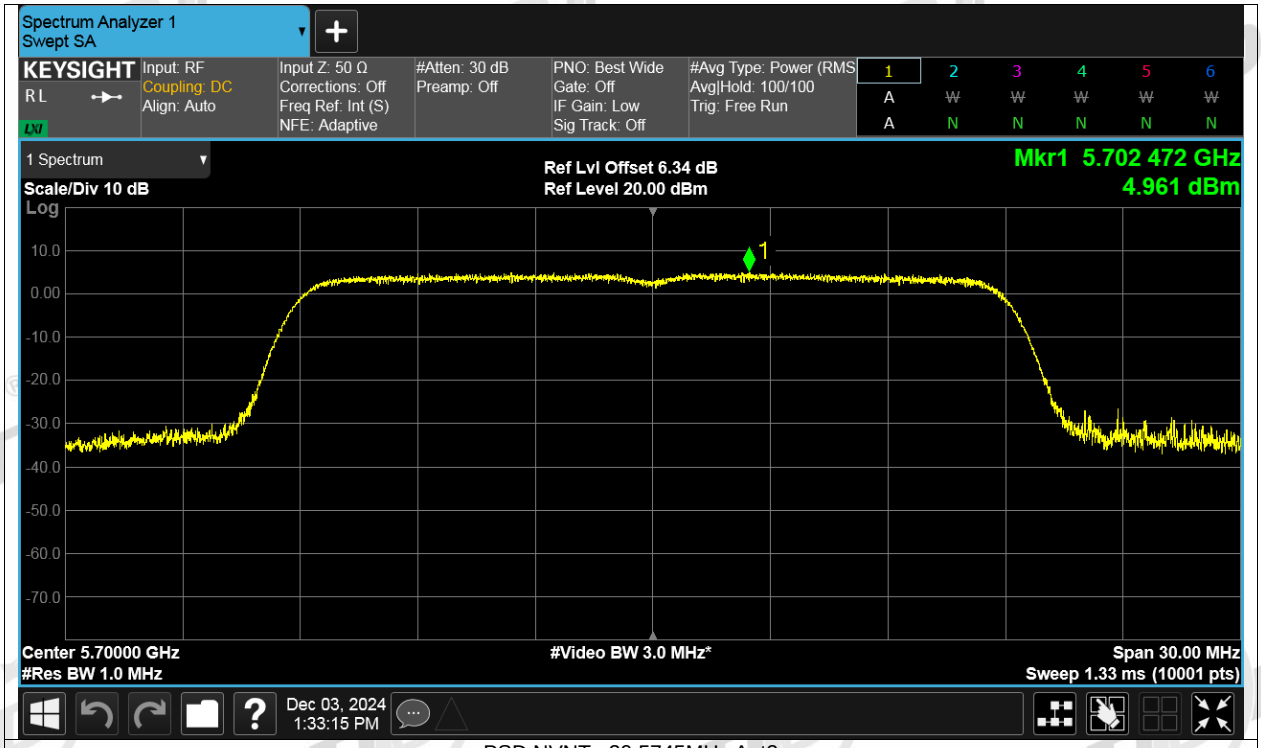

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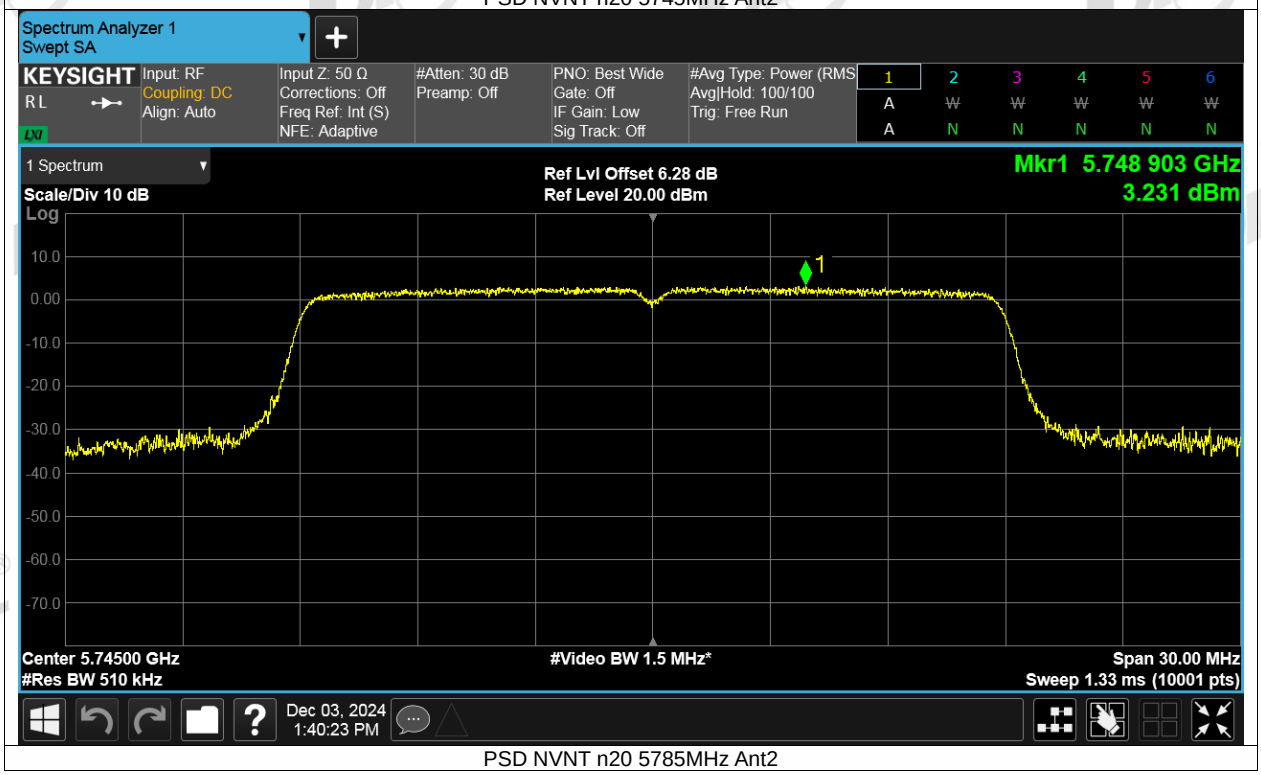

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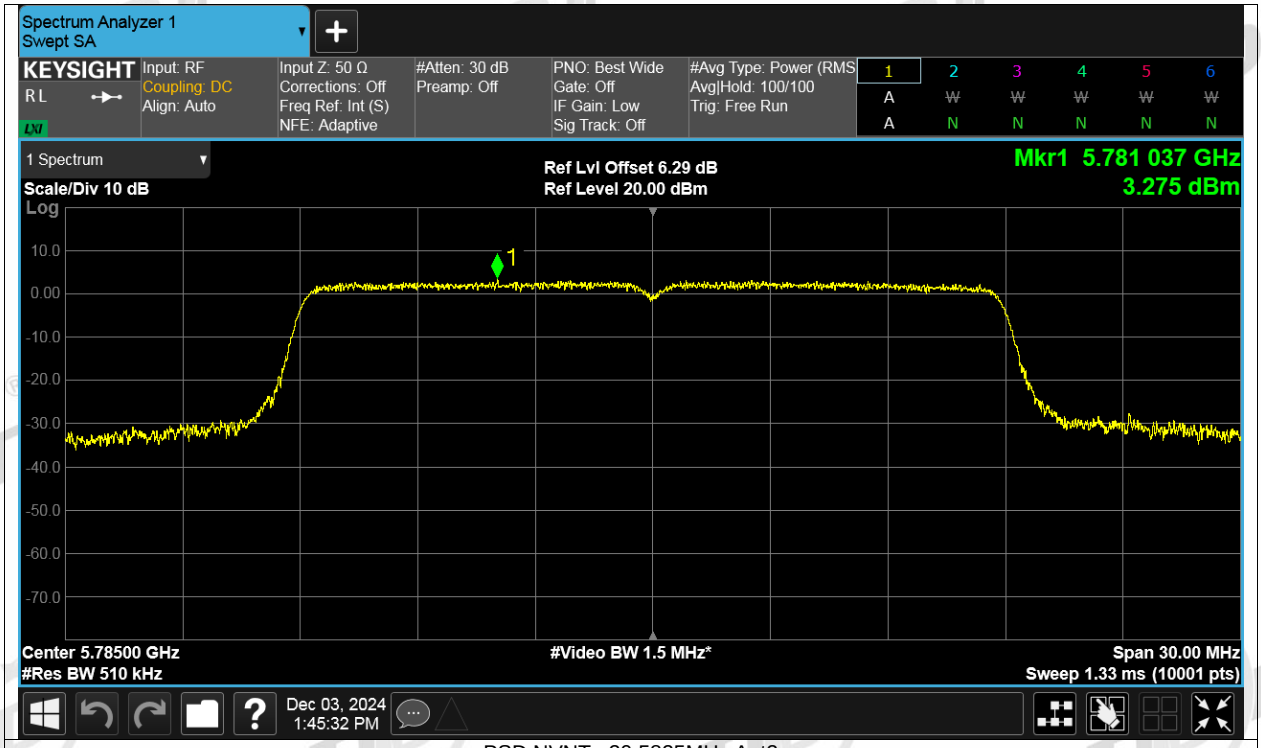

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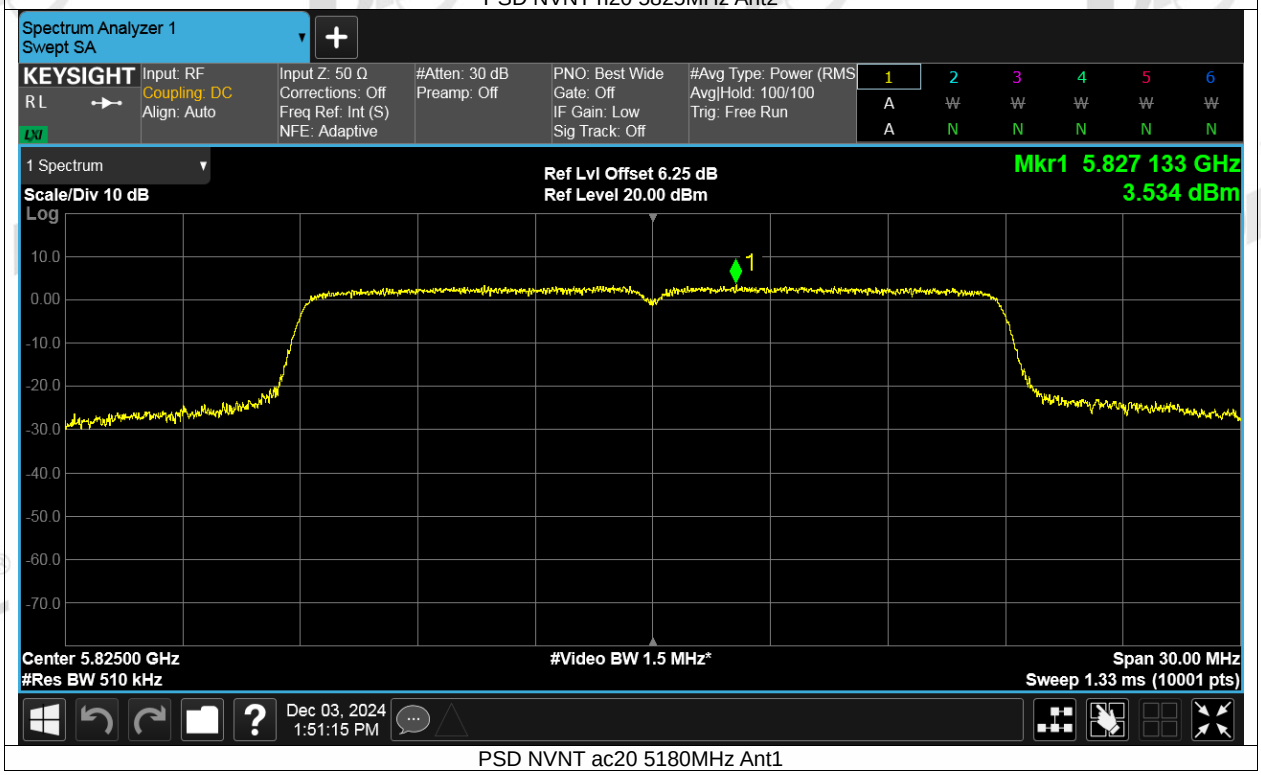

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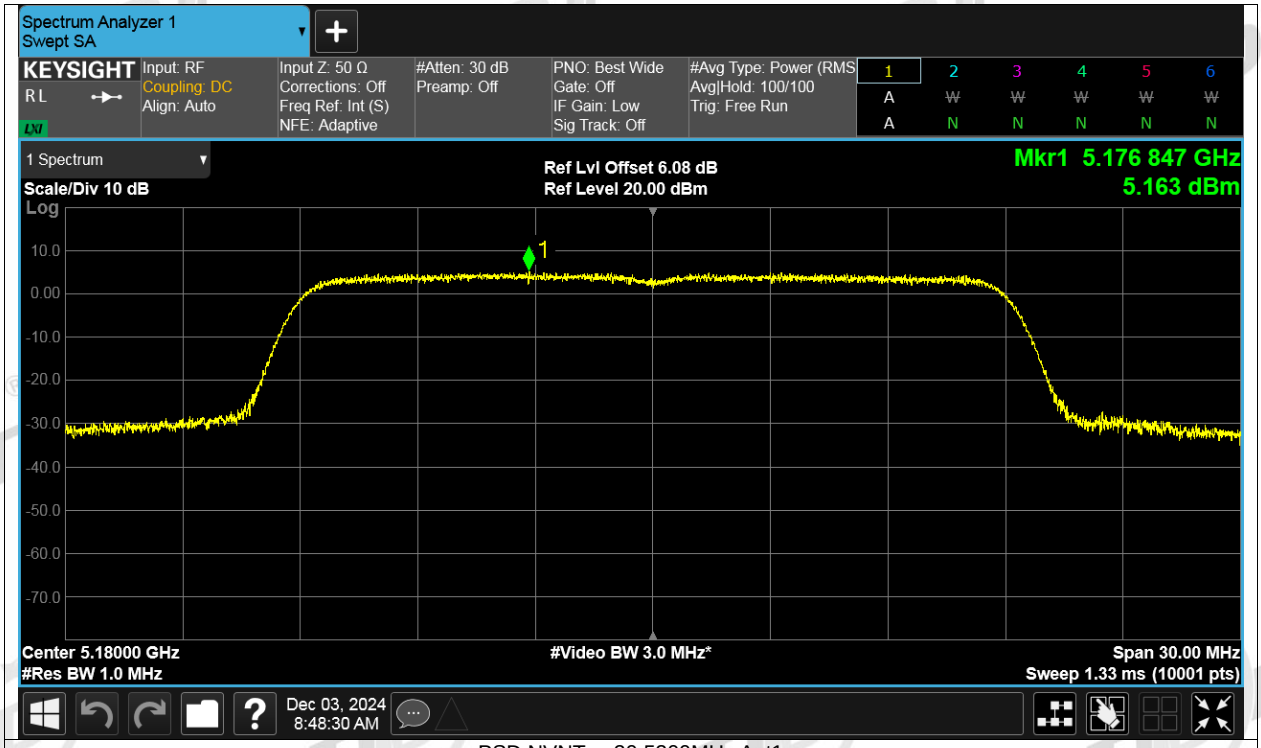

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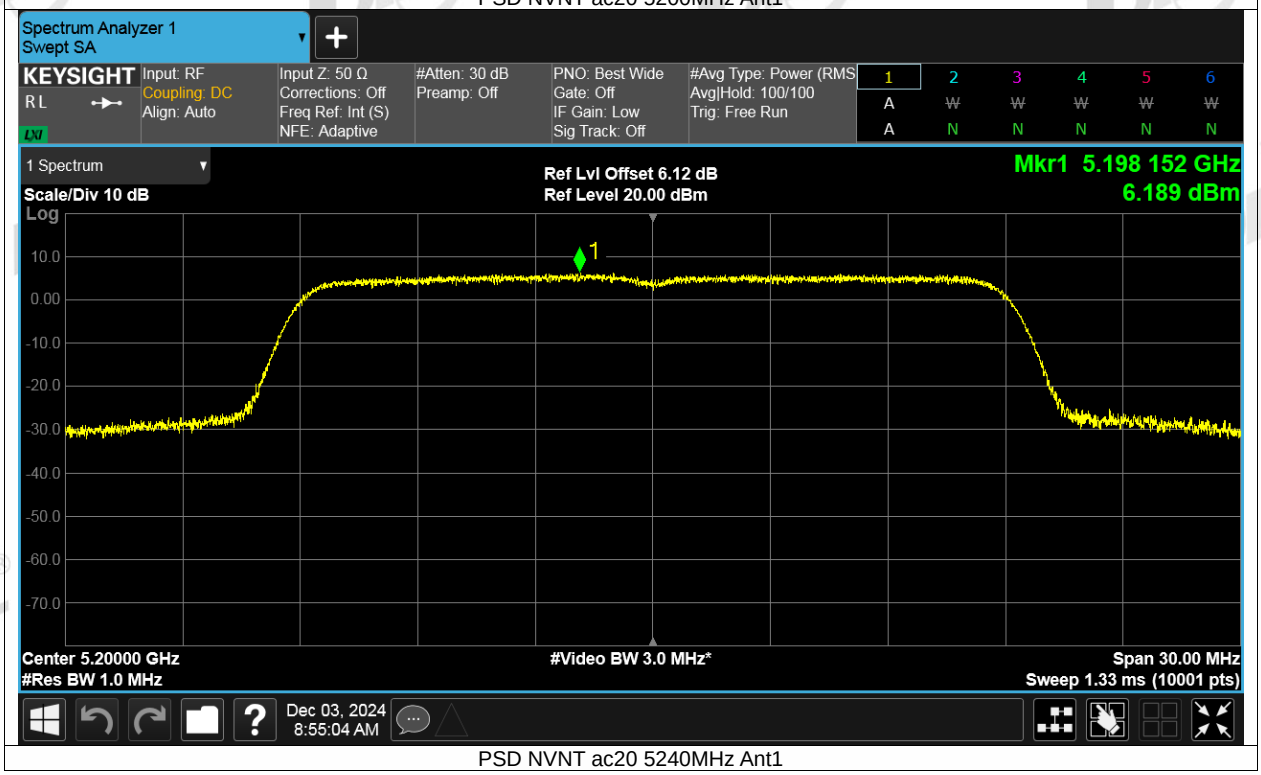

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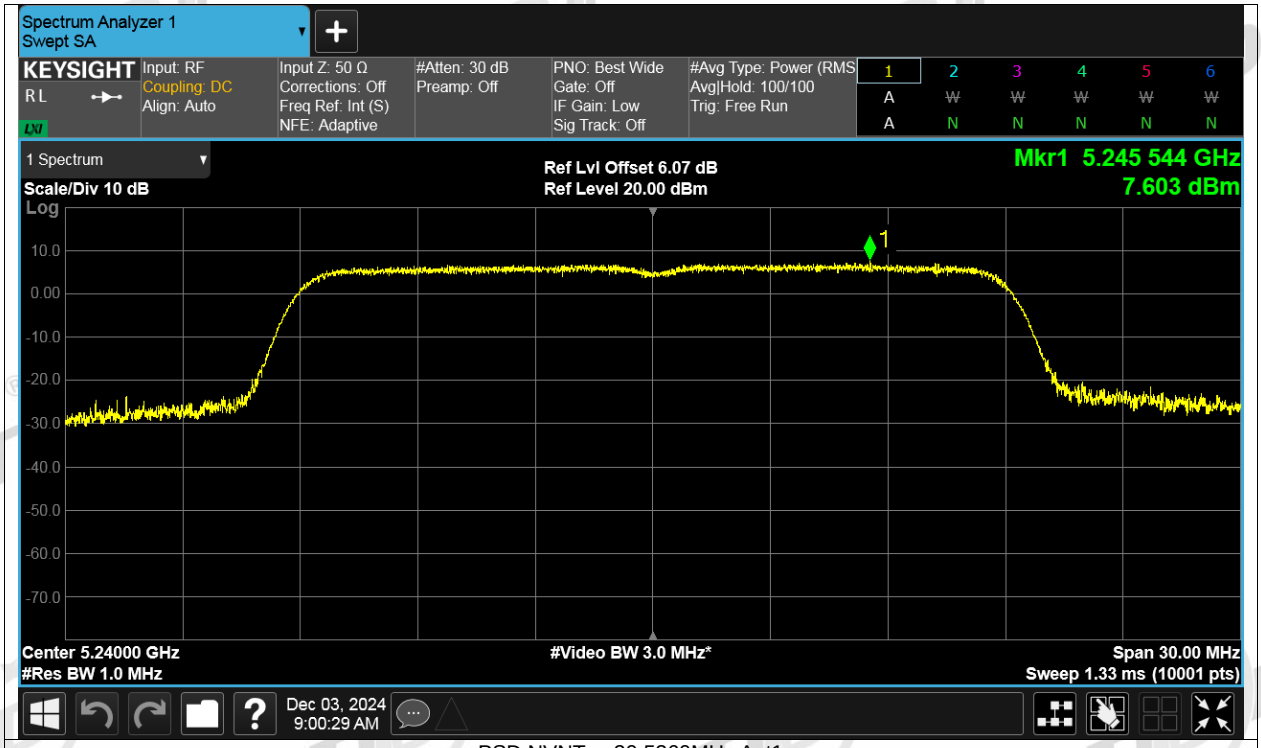

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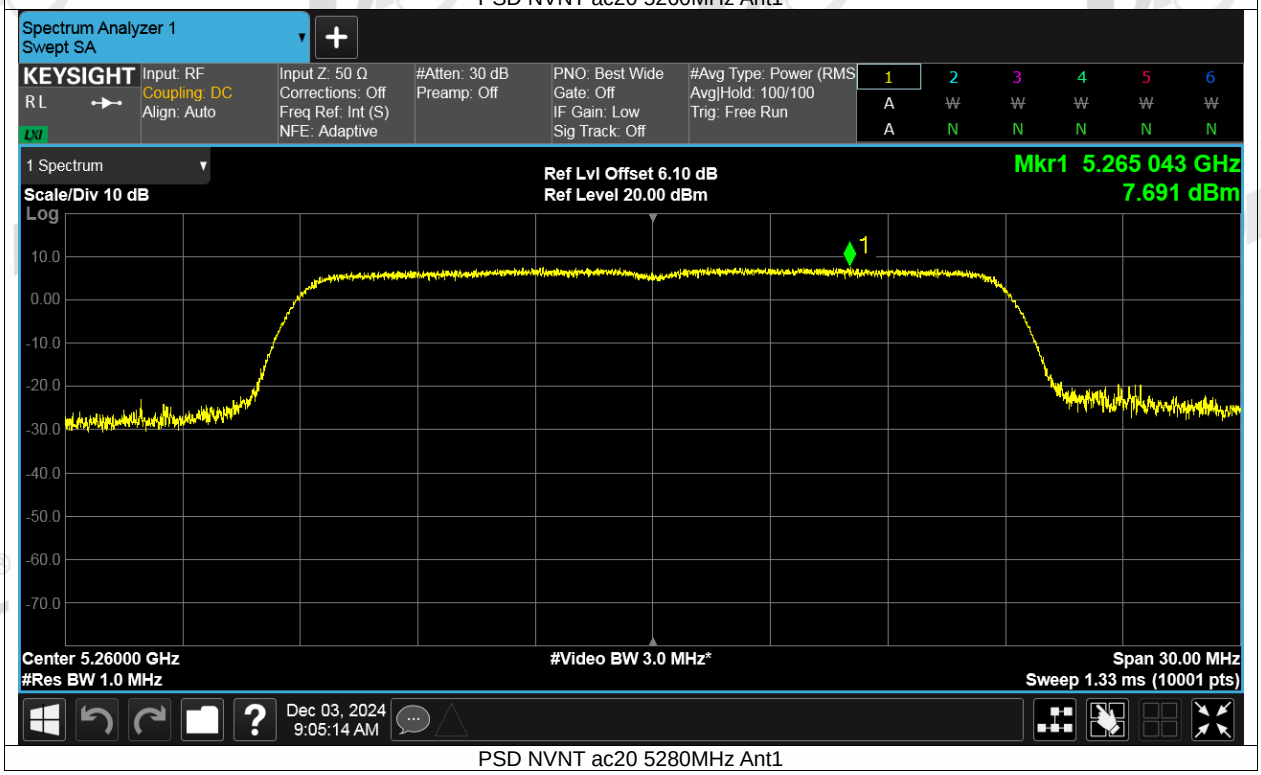

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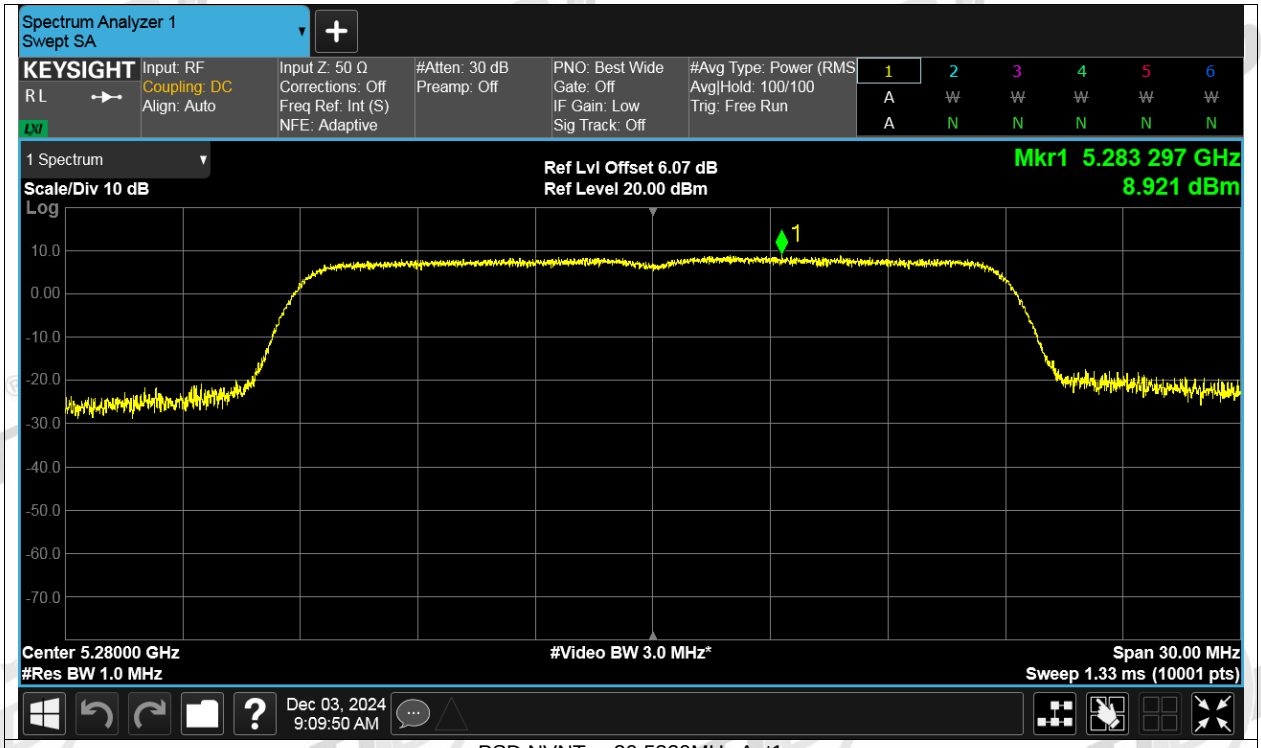

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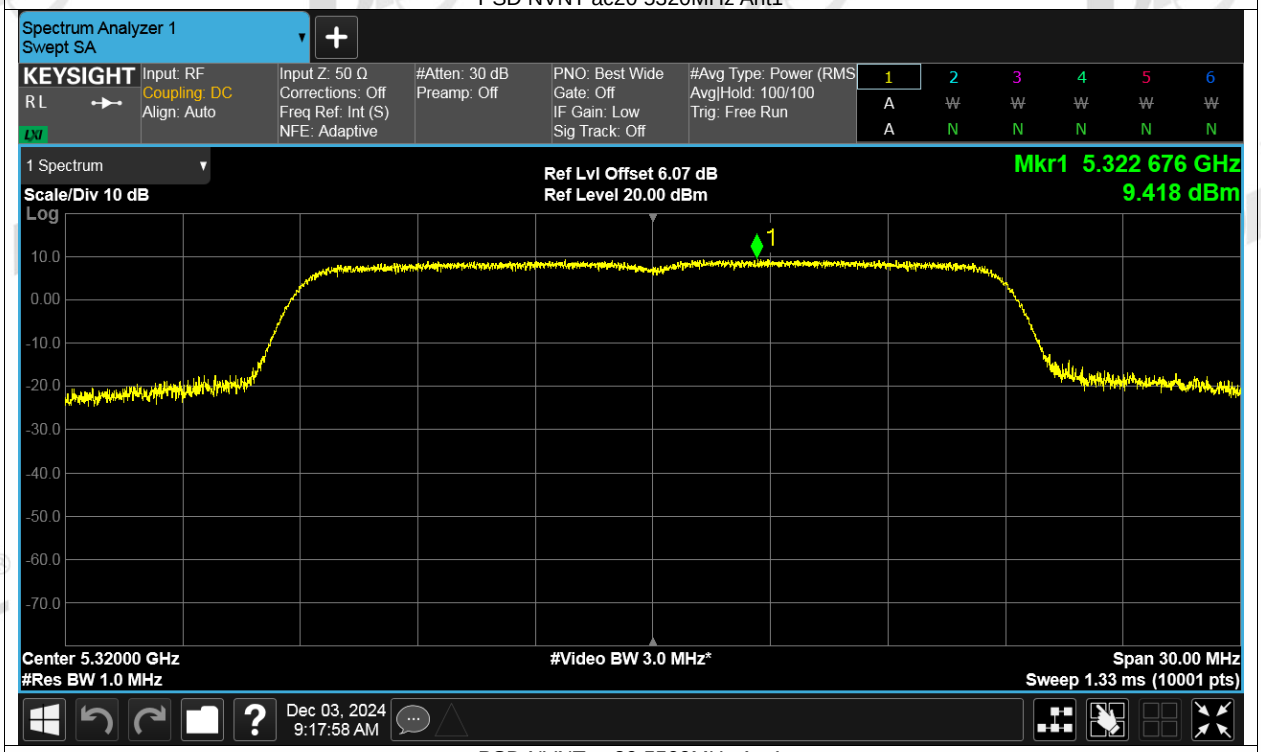

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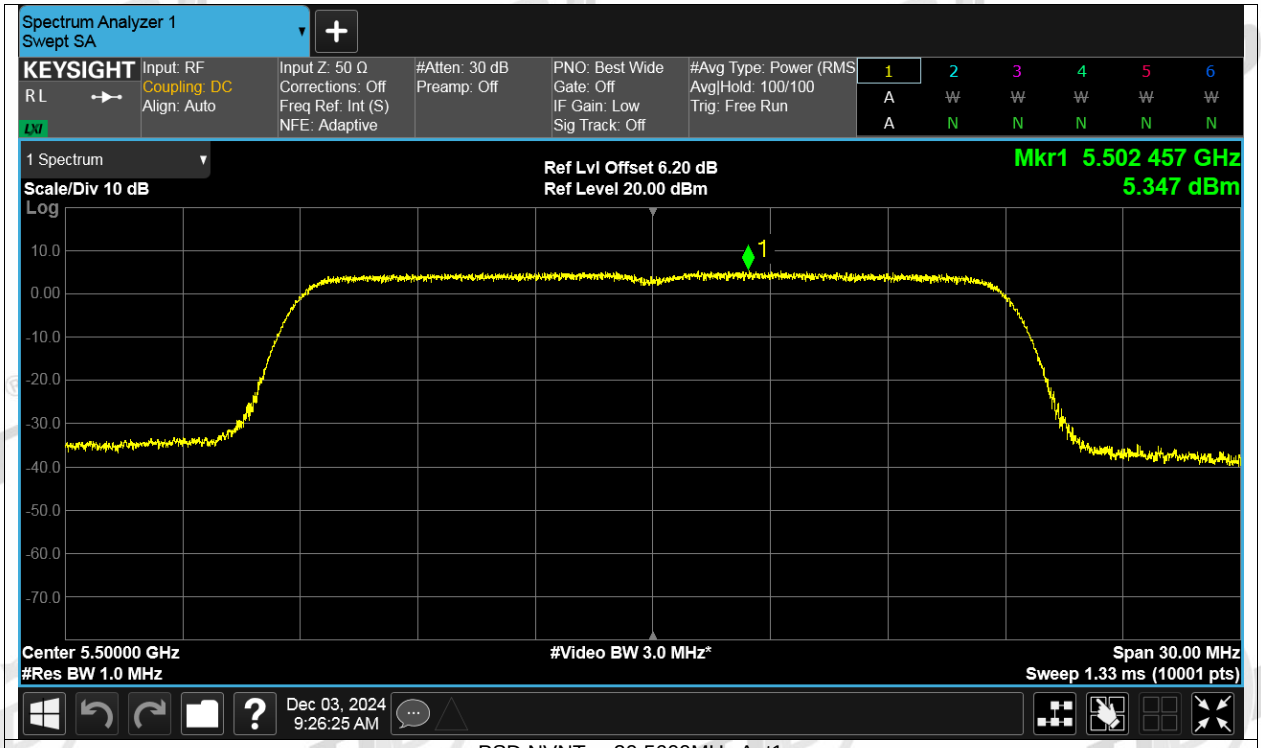

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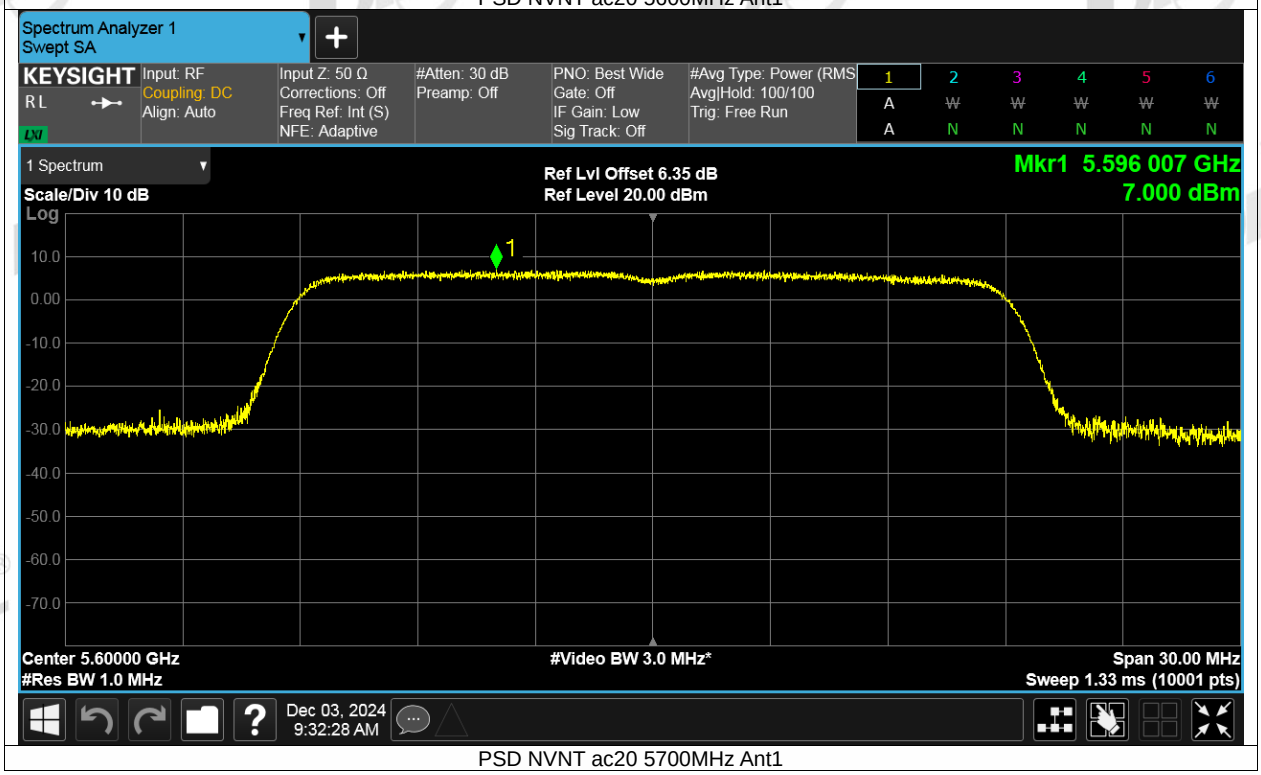

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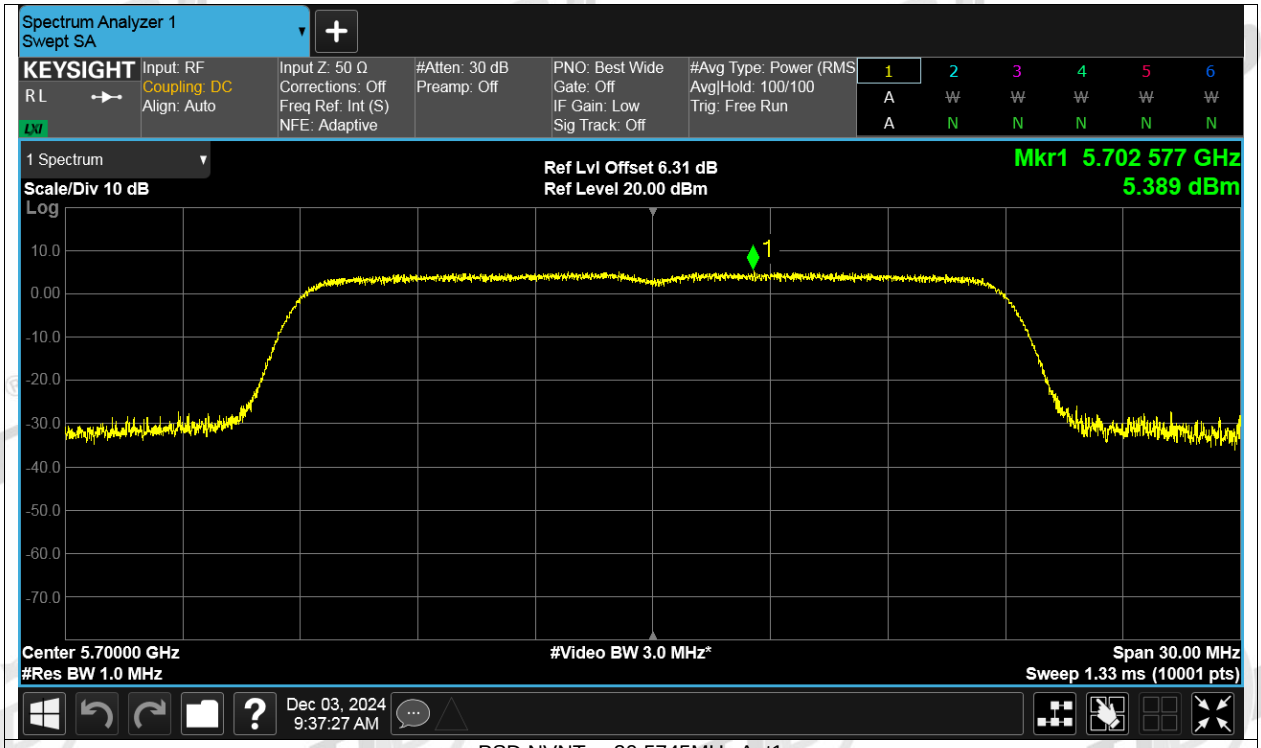

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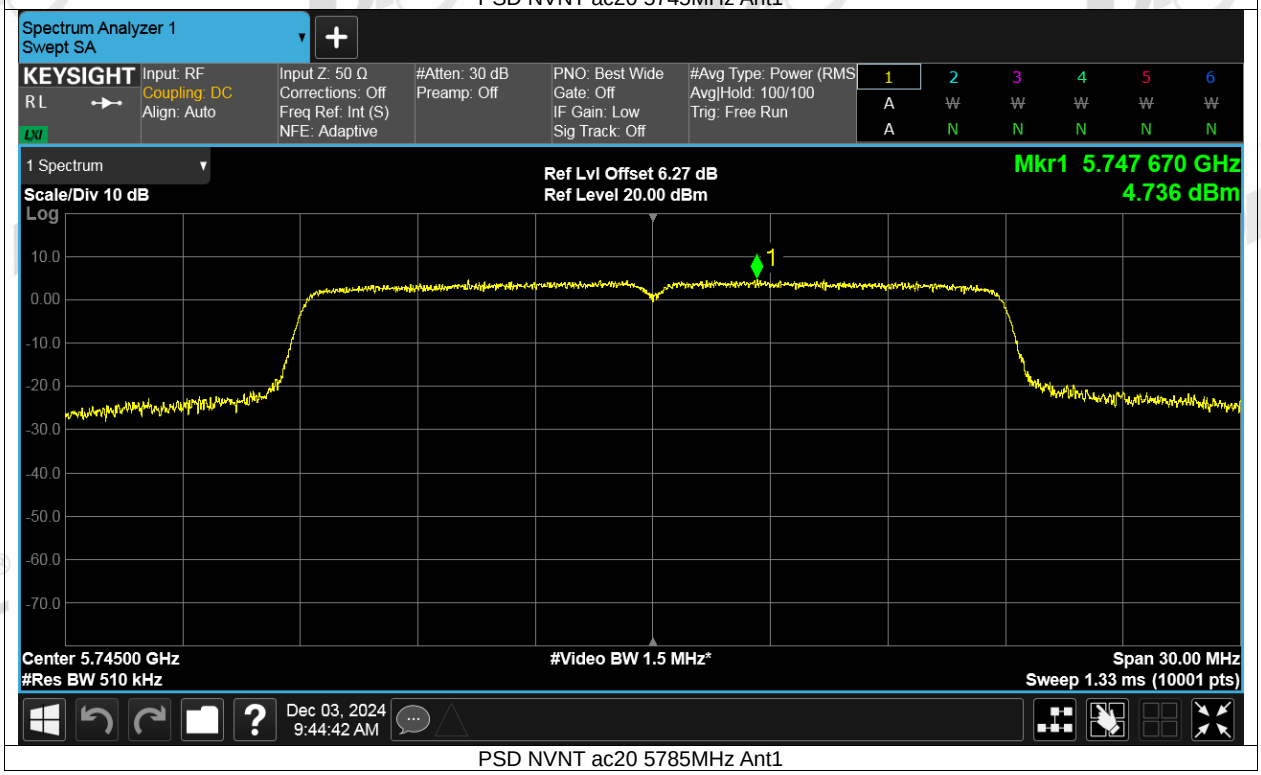

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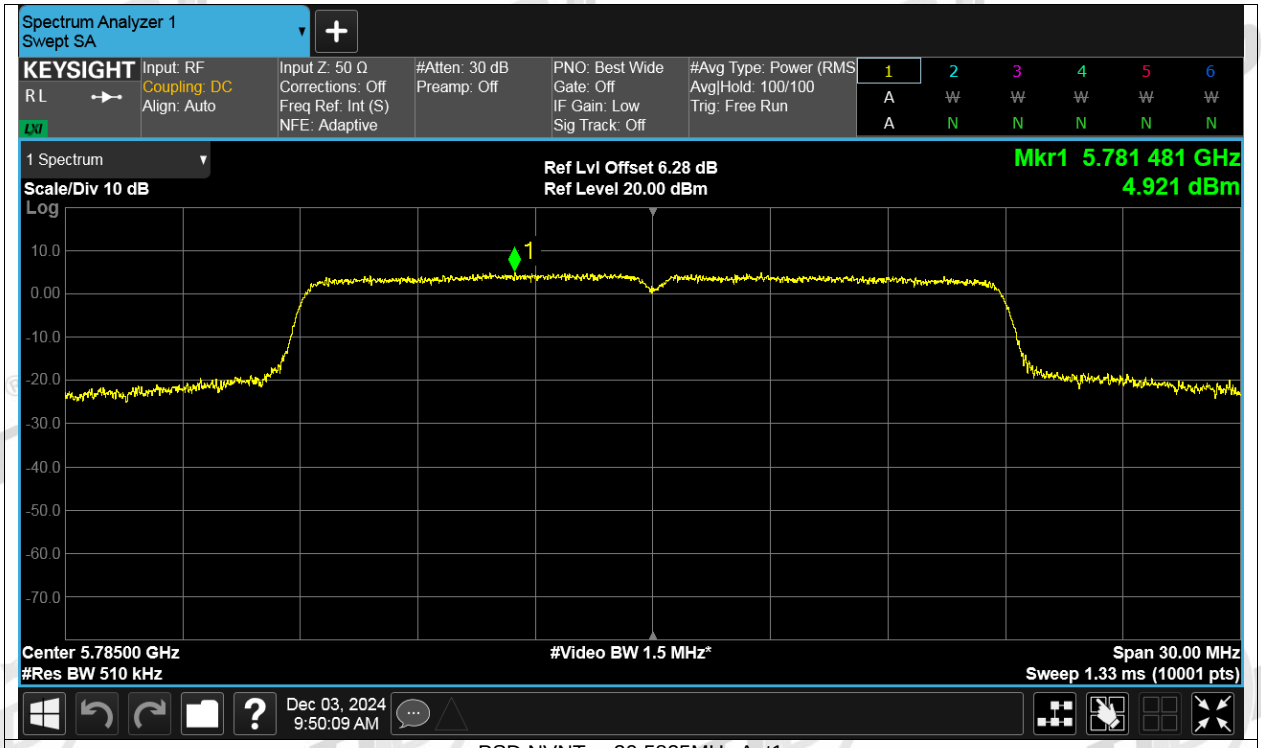

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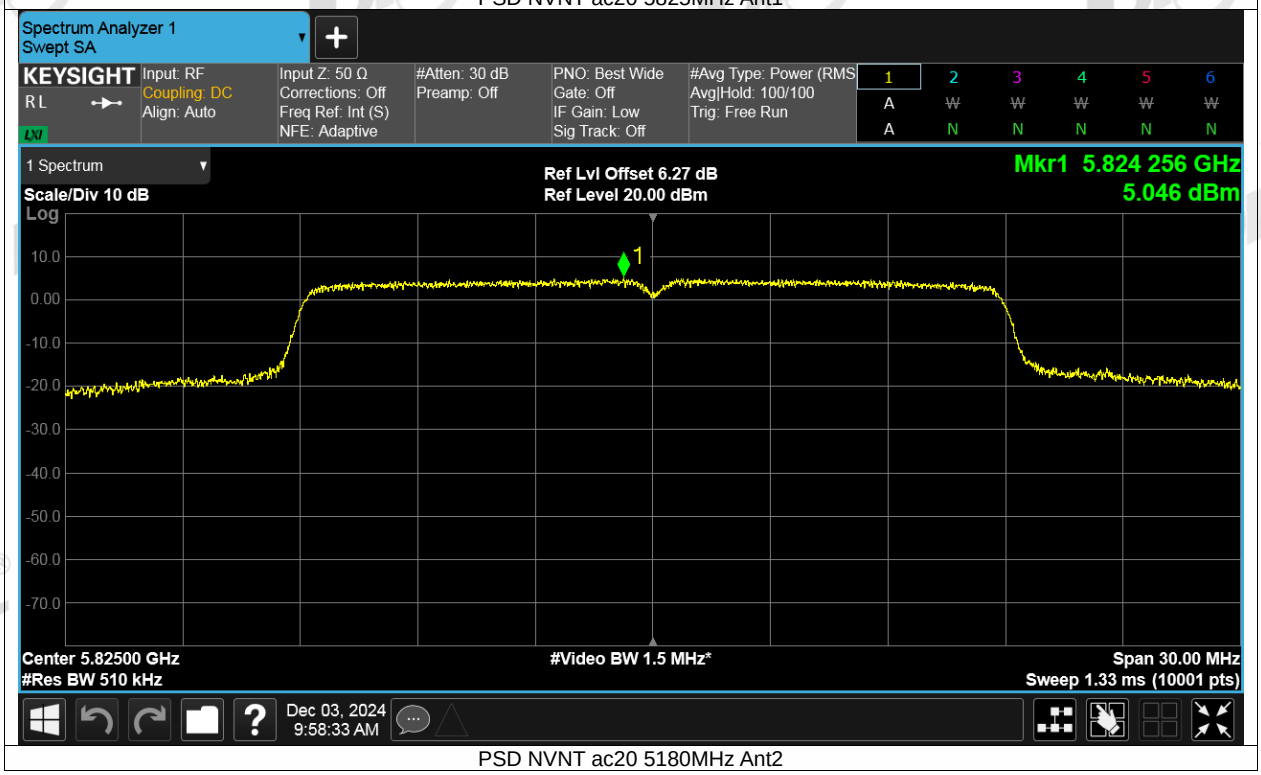

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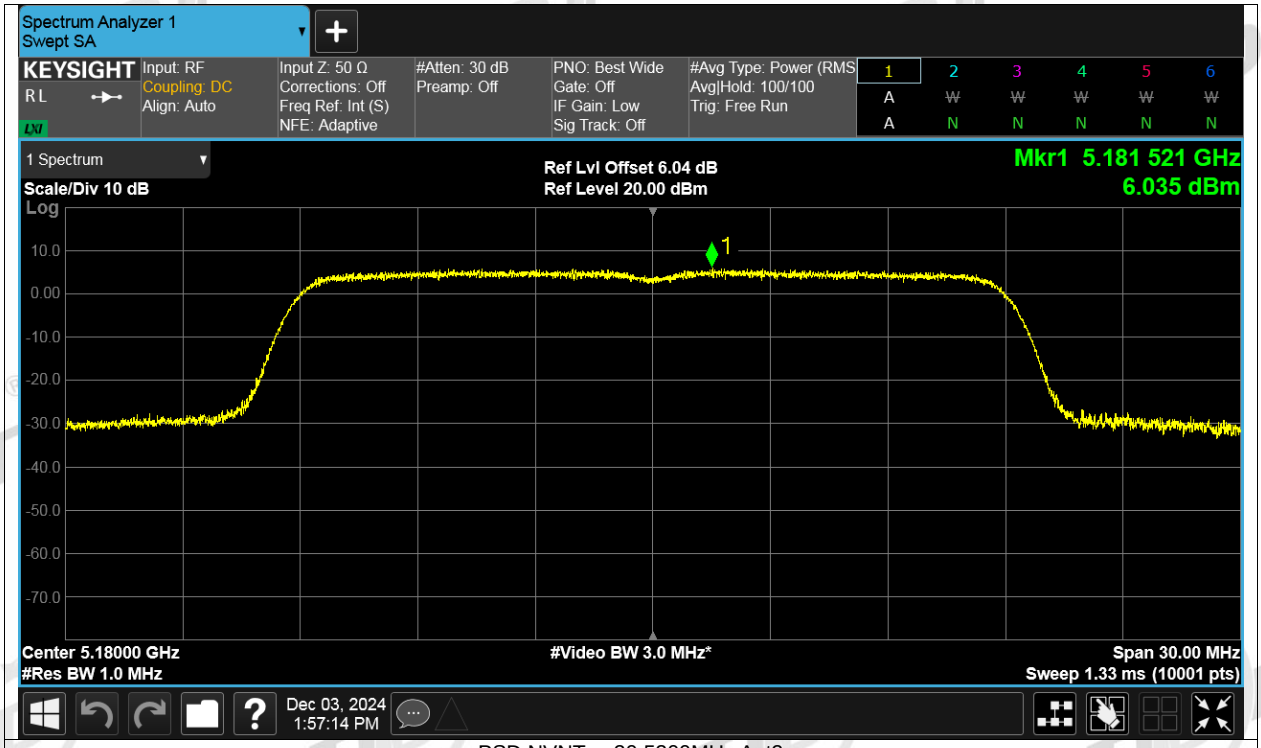

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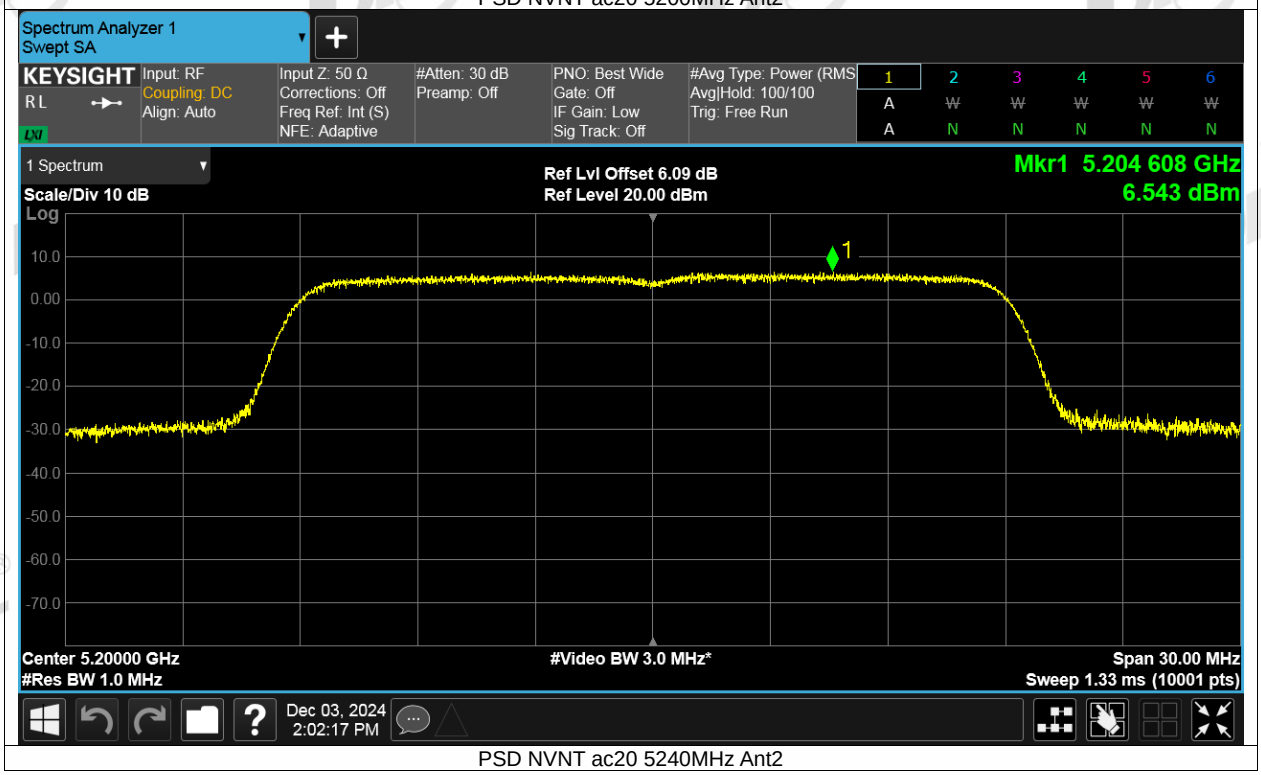

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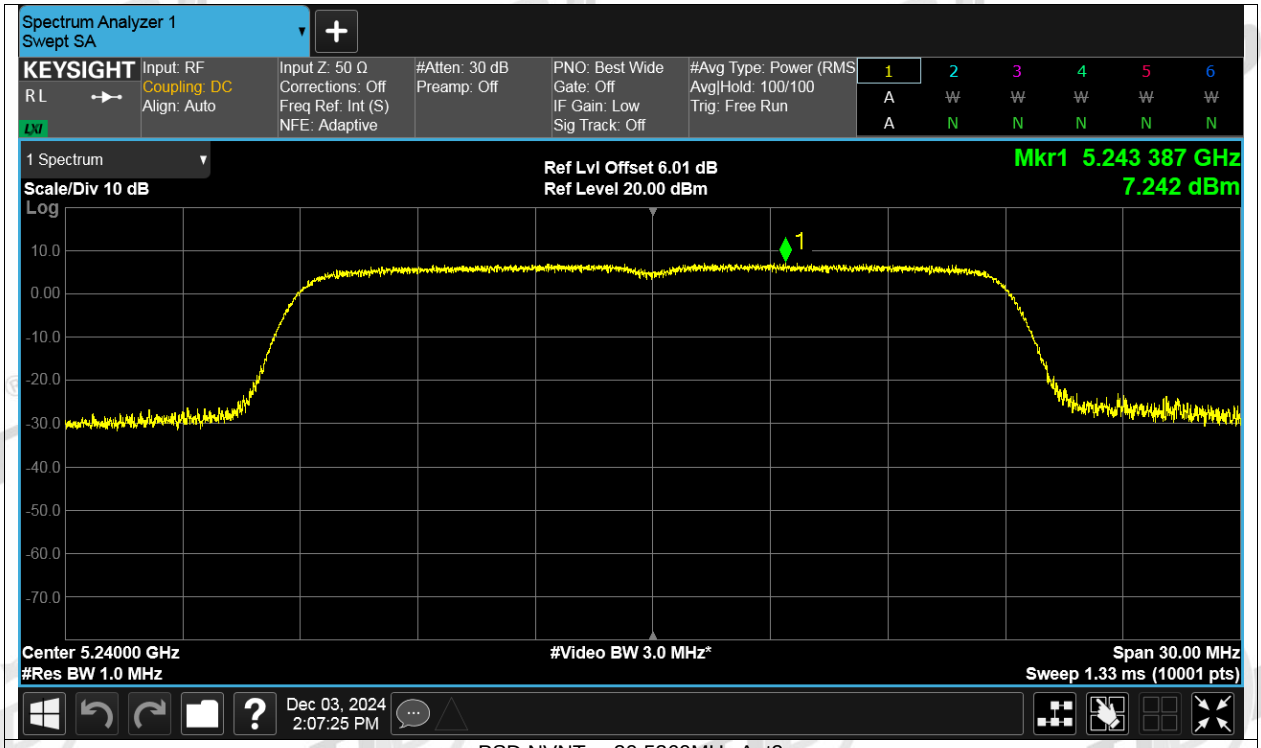

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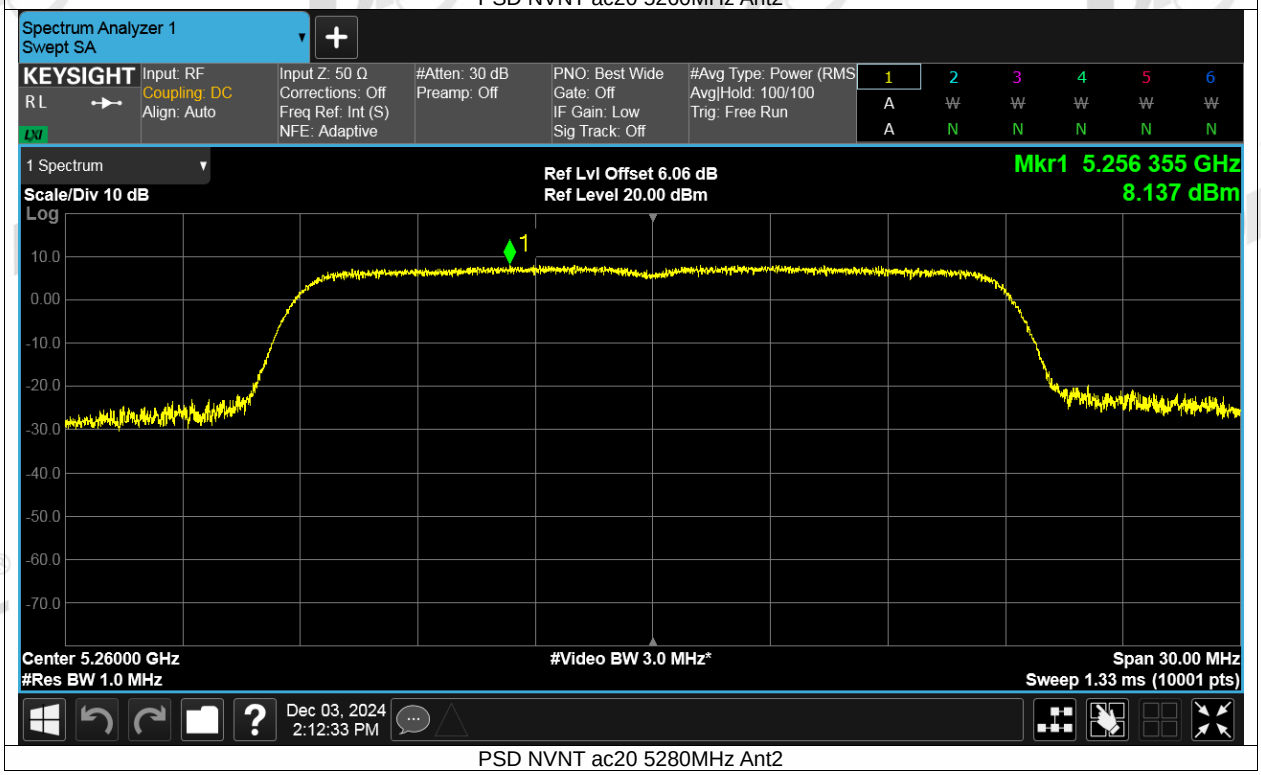

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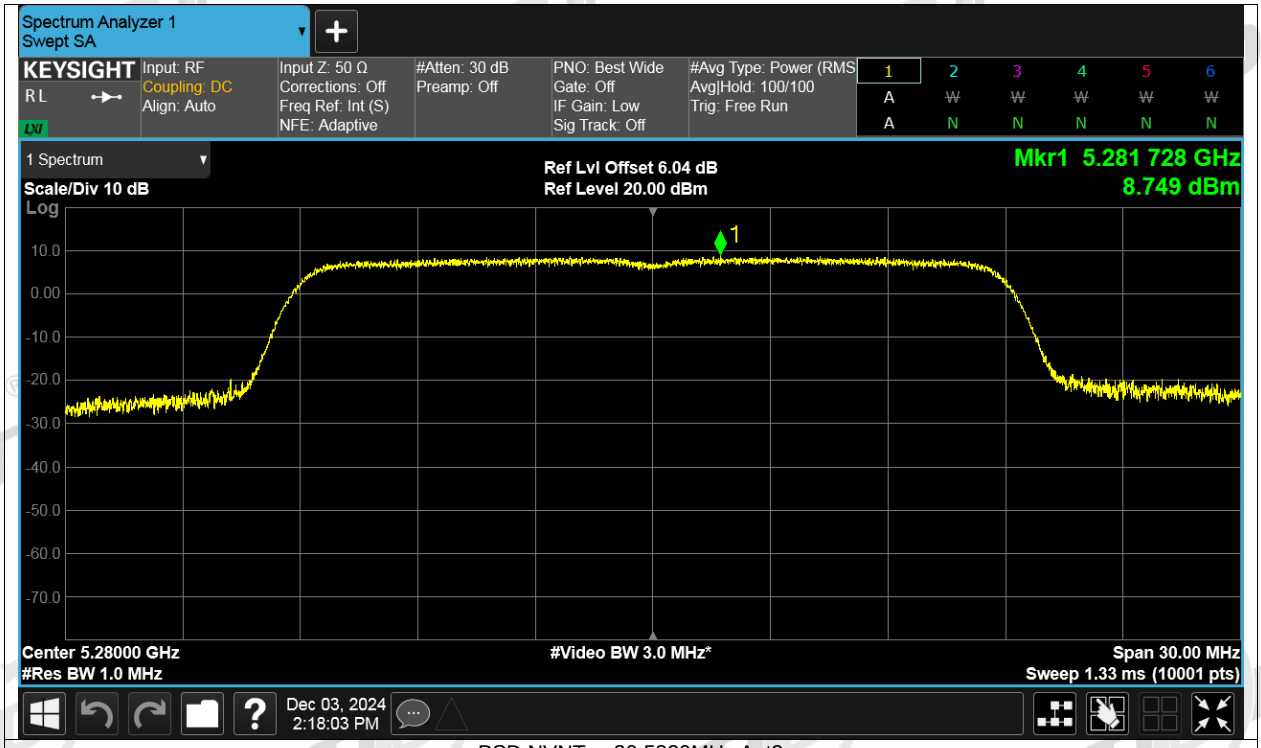

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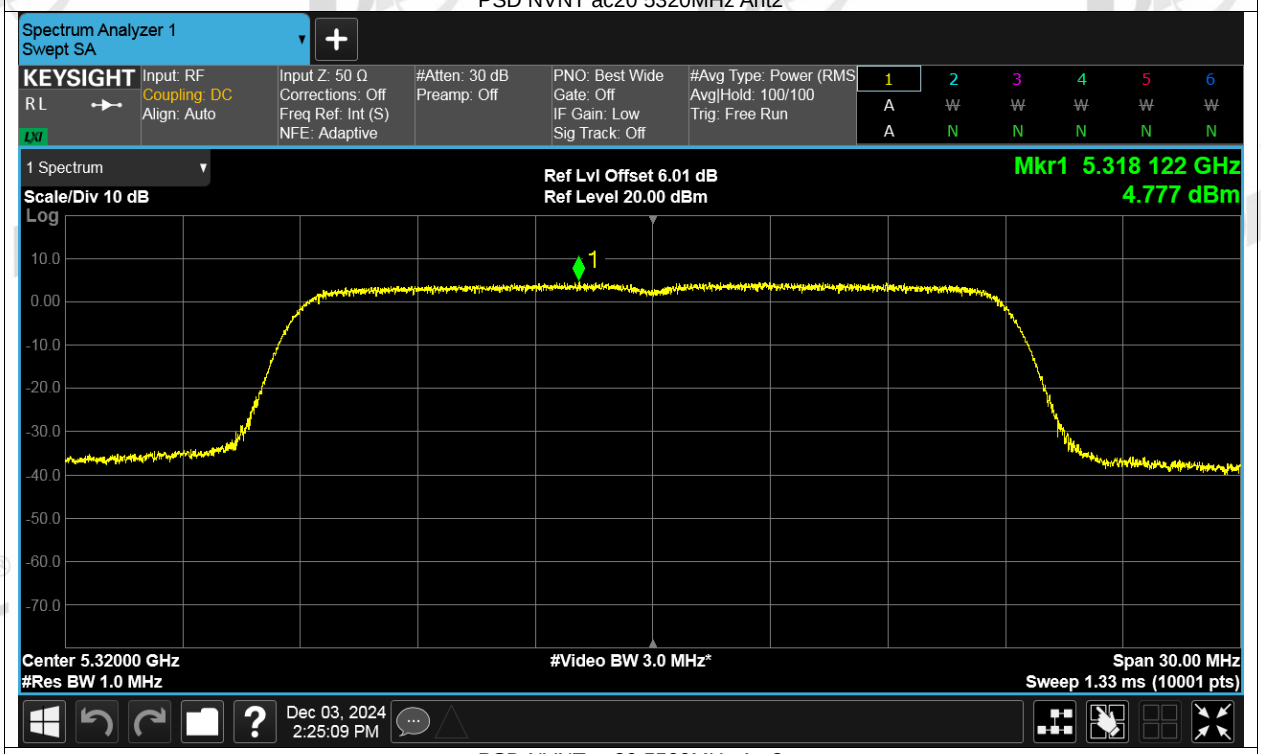

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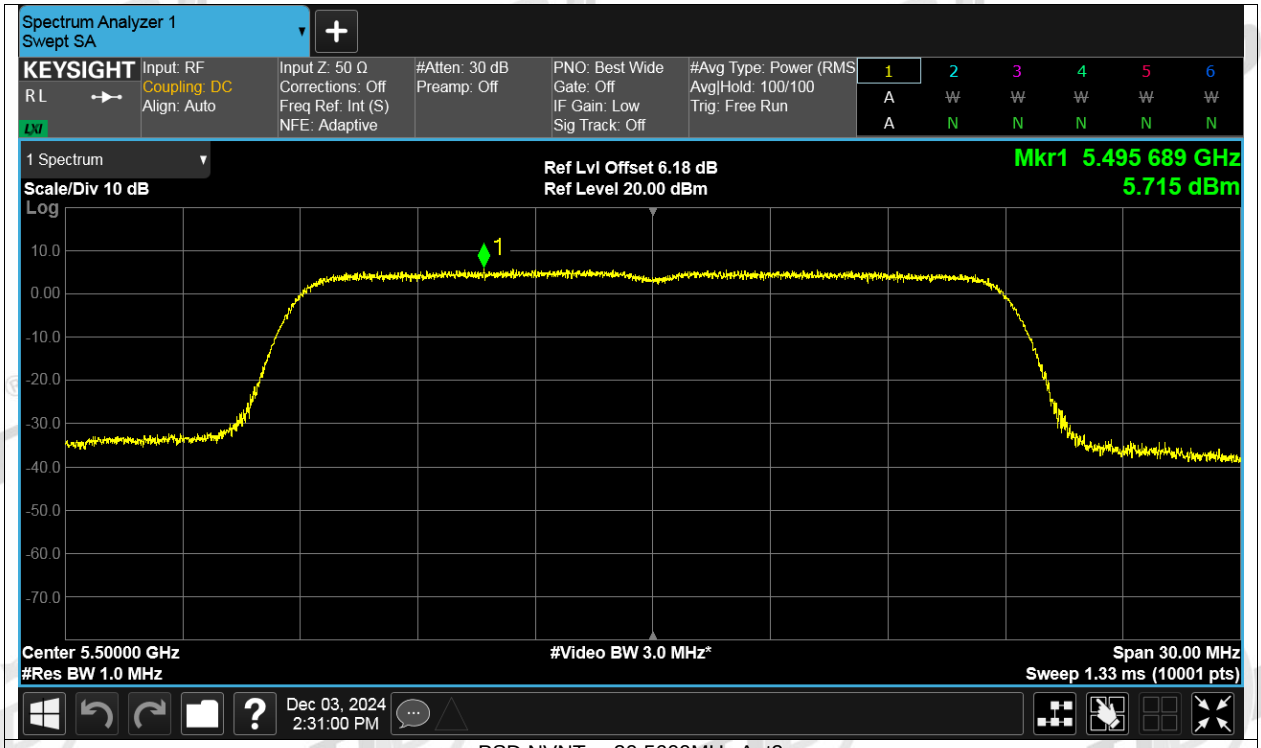

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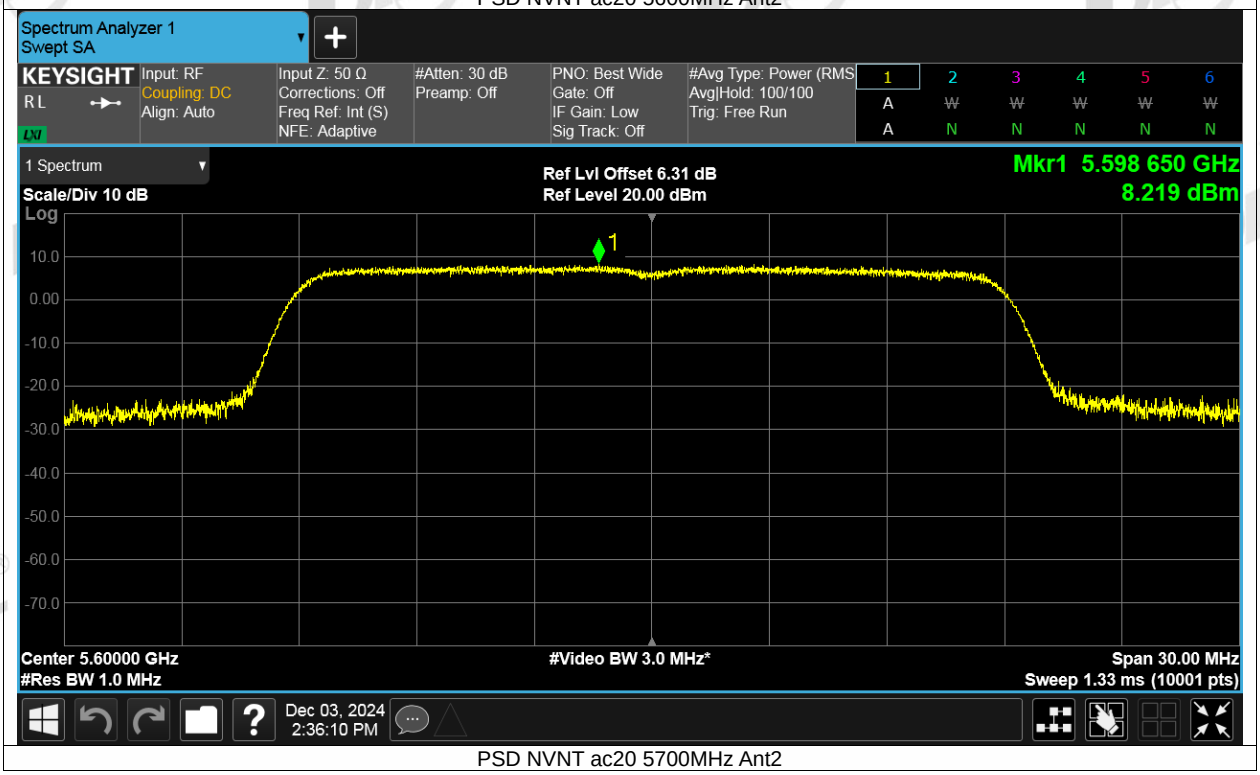

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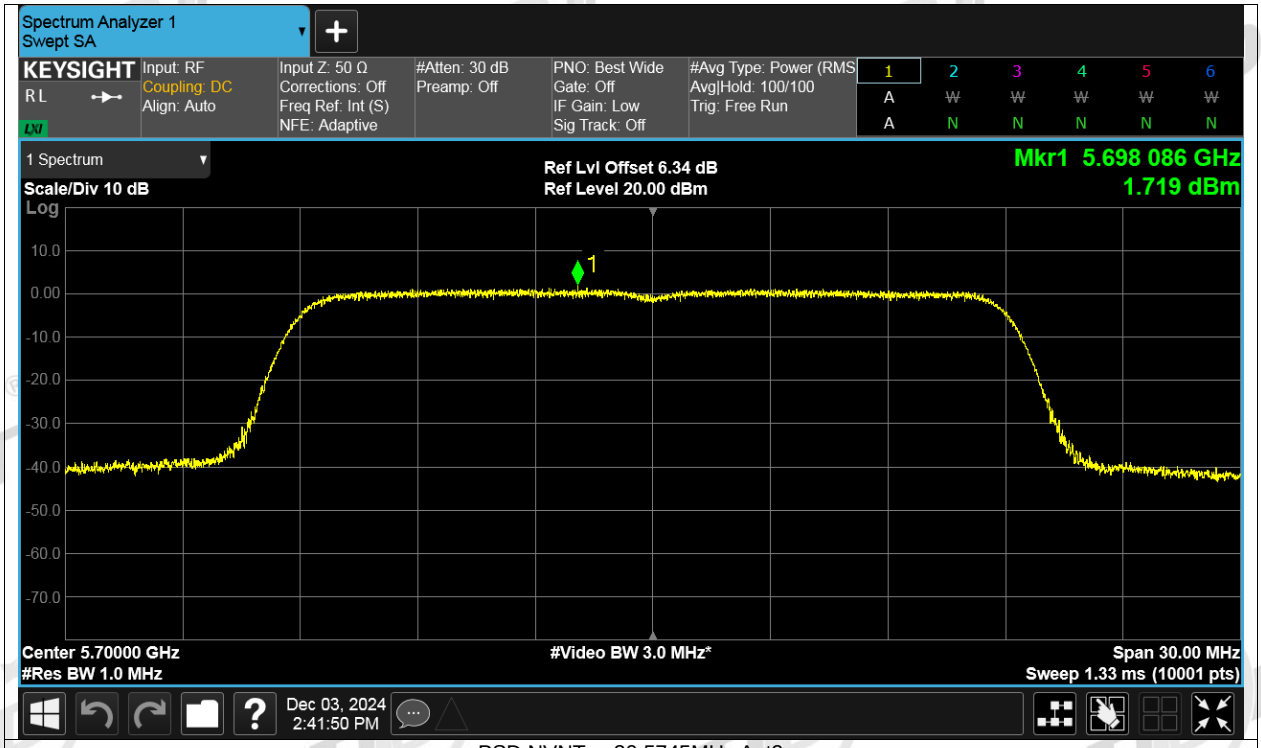

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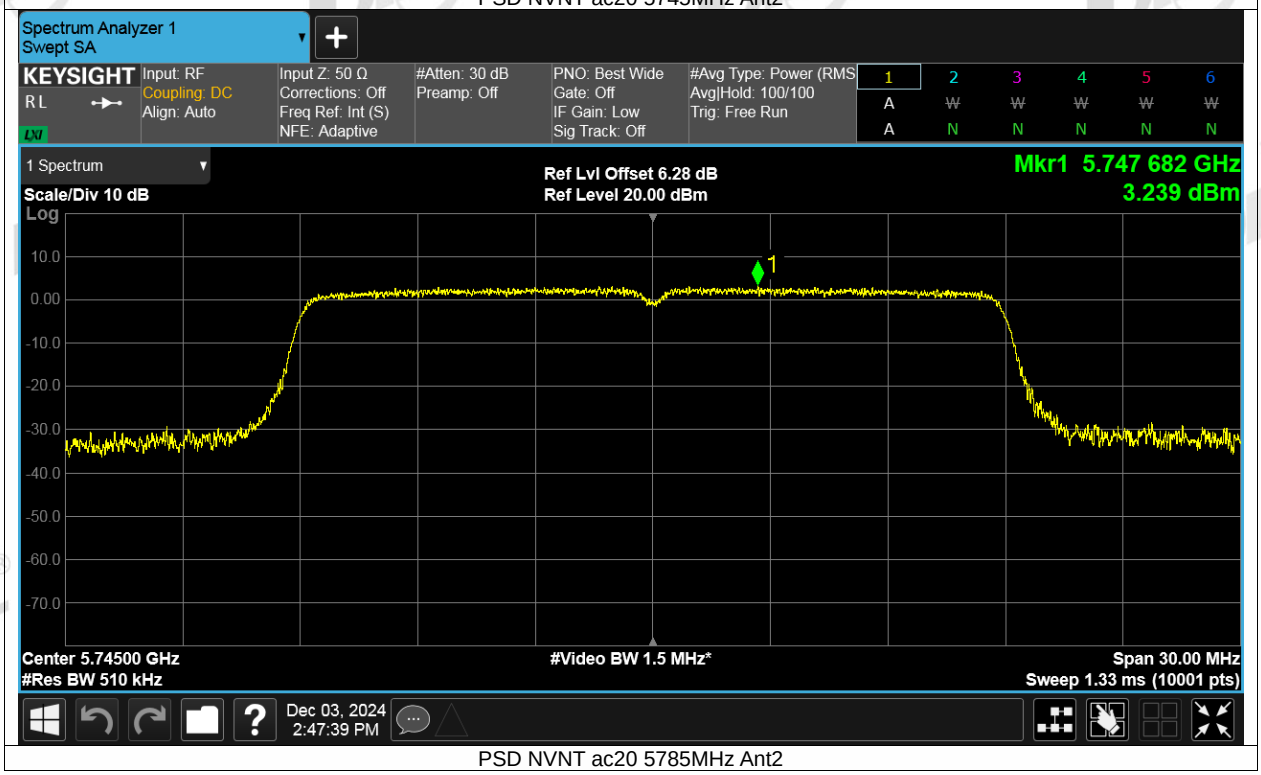

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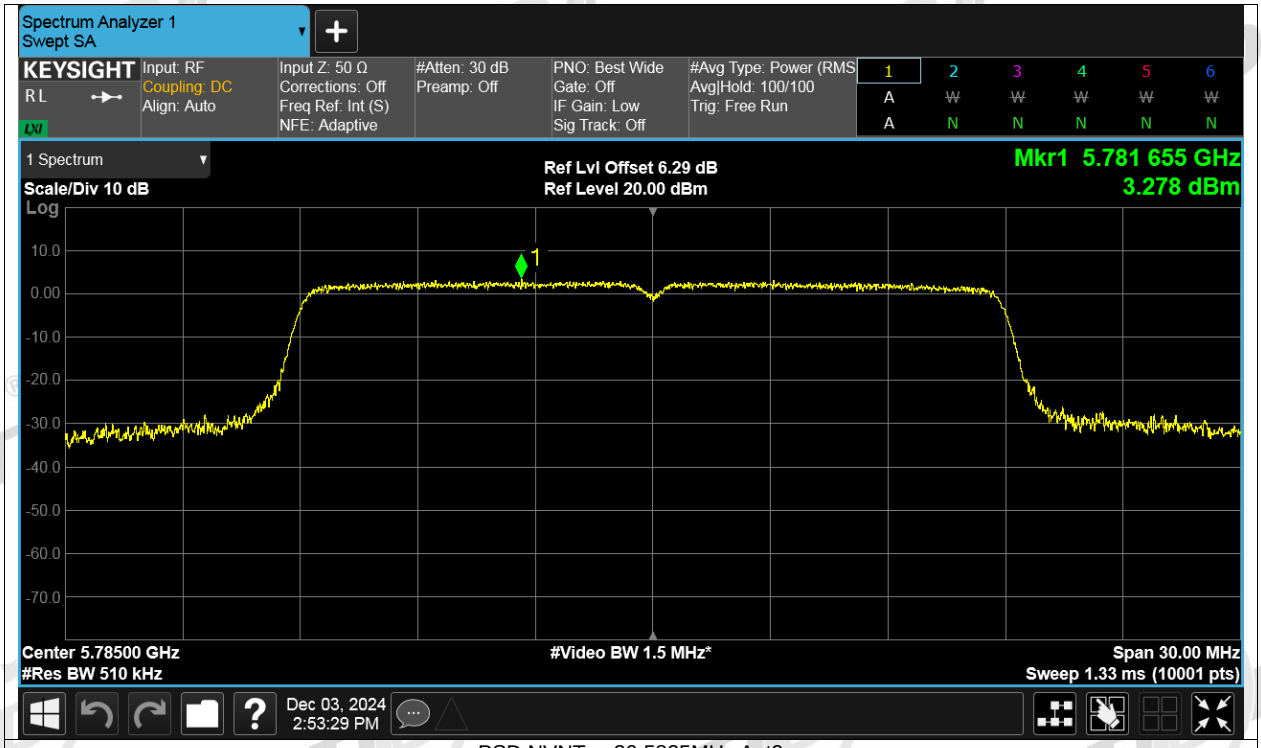

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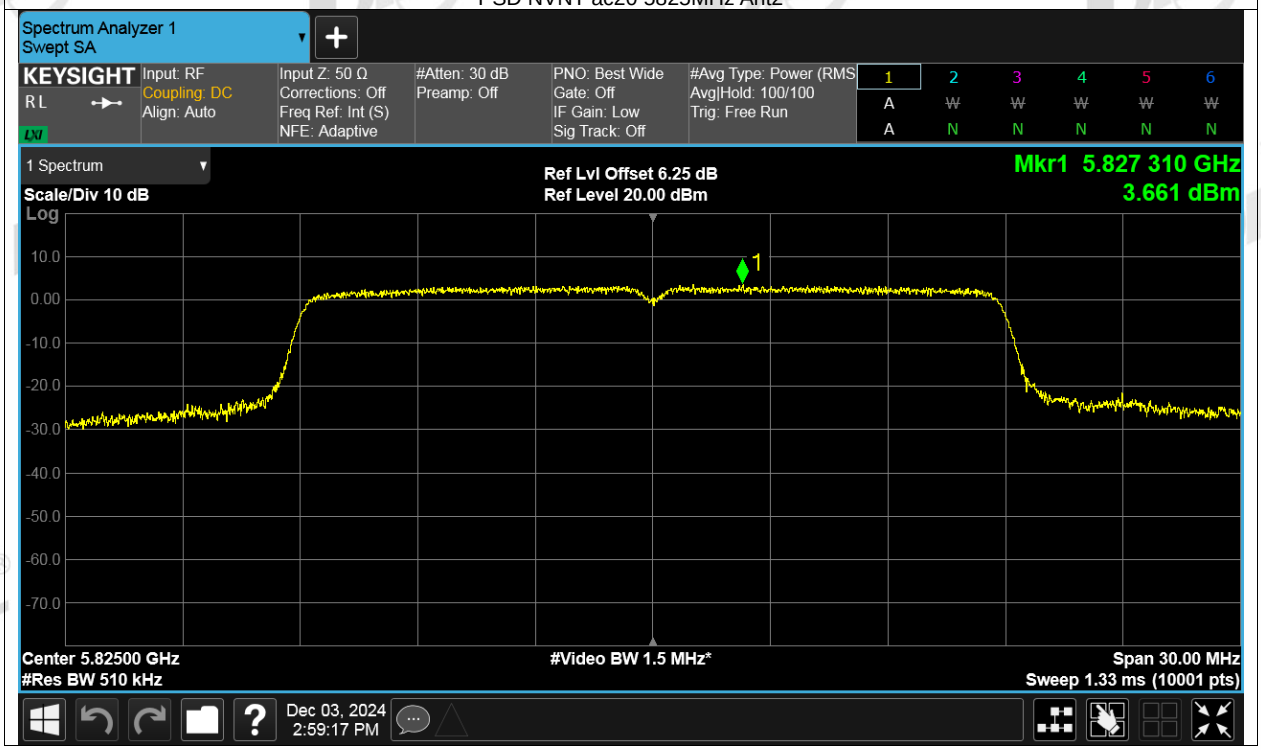


7. Frequency Stability Measurement

7.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

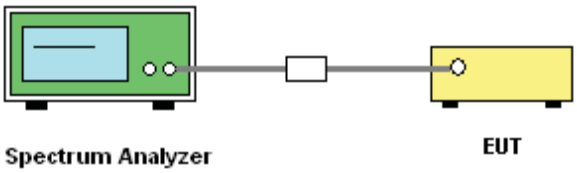
7.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

7.3. Test procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

7.4. Test setup



7.5. Test result

Normal Temperature

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NTLV	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NTNV	a	5180	Ant1	5180	0	0	25	Pass
NTHV	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NTLV	a	5200	Ant1	5200	0	0	25	Pass
NTNV	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NTHV	a	5200	Ant1	5200	0	0	25	Pass
NTLV	a	5240	Ant1	5240	0	0	25	Pass
NTNV	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NTHV	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NTLV	a	5260	Ant1	5260	0	0	25	Pass
NTNV	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NTHV	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NTLV	a	5280	Ant1	5280.02	20000	3.79	25	Pass
NTNV	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
NTHV	a	5280	Ant1	5280	0	0	25	Pass
NTLV	a	5320	Ant1	5320	0	0	25	Pass
NTNV	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NTHV	a	5320	Ant1	5320	0	0	25	Pass
NTLV	a	5500	Ant1	5500	0	0	25	Pass
NTNV	a	5500	Ant1	5500	0	0	25	Pass
NTHV	a	5500	Ant1	5500	0	0	25	Pass
NTLV	a	5600	Ant1	5600	0	0	25	Pass
NTNV	a	5600	Ant1	5600	0	0	25	Pass
NTHV	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
NTLV	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NTNV	a	5700	Ant1	5700	0	0	25	Pass
NTHV	a	5700	Ant1	5700	0	0	25	Pass
NTLV	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NTNV	a	5745	Ant1	5745	0	0	25	Pass
NTHV	a	5745	Ant1	5745	0	0	25	Pass
NTLV	a	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NTNV	a	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NTHV	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NTLV	a	5825	Ant1	5825	0	0	25	Pass
NTNV	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NTHV	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NTLV	a	5180	Ant2	5180	0	0	25	Pass

NTNV	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NTHV	a	5180	Ant2	5180	0	0	25	Pass
NTLV	a	5200	Ant2	5200	0	0	25	Pass
NTNV	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NTHV	a	5200	Ant2	5200	0	0	25	Pass
NTLV	a	5240	Ant2	5240	0	0	25	Pass
NTNV	a	5240	Ant2	5240.02	20000	3.82	25	Pass
NTHV	a	5240	Ant2	5240.02	20000	3.82	25	Pass
NTLV	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
NTNV	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
NTHV	a	5260	Ant2	5260	0	0	25	Pass
NTLV	a	5280	Ant2	5280	0	0	25	Pass
NTNV	a	5280	Ant2	5280	0	0	25	Pass
NTHV	a	5280	Ant2	5280.02	20000	3.79	25	Pass
NTLV	a	5320	Ant2	5320.02	20000	3.76	25	Pass
NTNV	a	5320	Ant2	5320	0	0	25	Pass
NTHV	a	5320	Ant2	5320	0	0	25	Pass
NTLV	a	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NTNV	a	5500	Ant2	5500	0	0	25	Pass
NTHV	a	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NTLV	a	5600	Ant2	5600	0	0	25	Pass
NTNV	a	5600	Ant2	5599.98	-20000	-3.57	25	Pass
NTHV	a	5600	Ant2	5600.02	20000	3.57	25	Pass
NTLV	a	5700	Ant2	5700	0	0	25	Pass
NTNV	a	5700	Ant2	5700	0	0	25	Pass
NTHV	a	5700	Ant2	5699.98	-20000	-3.51	25	Pass
NTLV	a	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NTNV	a	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NTHV	a	5745	Ant2	5745	0	0	25	Pass
NTLV	a	5785	Ant2	5785	0	0	25	Pass
NTNV	a	5785	Ant2	5785	0	0	25	Pass
NTHV	a	5785	Ant2	5785.02	20000	3.46	25	Pass
NTLV	a	5825	Ant2	5825	0	0	25	Pass
NTNV	a	5825	Ant2	5825	0	0	25	Pass
NTHV	a	5825	Ant2	5825	0	0	25	Pass
NTLV	n20	5180	Ant1	5180	0	0	25	Pass
NTNV	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
NTHV	n20	5180	Ant1	5180	0	0	25	Pass
NTLV	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NTNV	n20	5200	Ant1	5200	0	0	25	Pass
NTHV	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NTLV	n20	5240	Ant1	5240	0	0	25	Pass
NTNV	n20	5240	Ant1	5240	0	0	25	Pass

NTHV	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
NTLV	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NTNV	n20	5260	Ant1	5260.02	20000	3.8	25	Pass
NTHV	n20	5260	Ant1	5260	0	0	25	Pass
NTLV	n20	5280	Ant1	5280	0	0	25	Pass
NTNV	n20	5280	Ant1	5280	0	0	25	Pass
NTHV	n20	5280	Ant1	5280	0	0	25	Pass
NTLV	n20	5320	Ant1	5320	0	0	25	Pass
NTNV	n20	5320	Ant1	5320	0	0	25	Pass
NTHV	n20	5320	Ant1	5320	0	0	25	Pass
NTLV	n20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
NTNV	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NTHV	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NTLV	n20	5600	Ant1	5600	0	0	25	Pass
NTNV	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
NTHV	n20	5600	Ant1	5600	0	0	25	Pass
NTLV	n20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
NTNV	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NTHV	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NTLV	n20	5745	Ant1	5745	0	0	25	Pass
NTNV	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NTHV	n20	5745	Ant1	5745.02	20000	3.48	25	Pass
NTLV	n20	5785	Ant1	5785	0	0	25	Pass
NTNV	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NTHV	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
NTLV	n20	5825	Ant1	5825	0	0	25	Pass
NTNV	n20	5825	Ant1	5825	0	0	25	Pass
NTHV	n20	5825	Ant1	5825	0	0	25	Pass
NTLV	n20	5180	Ant2	5180	0	0	25	Pass
NTNV	n20	5180	Ant2	5180	0	0	25	Pass
NTHV	n20	5180	Ant2	5180	0	0	25	Pass
NTLV	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
NTNV	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
NTHV	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
NTLV	n20	5240	Ant2	5240.04	40000	7.63	25	Pass
NTNV	n20	5240	Ant2	5240.02	20000	3.82	25	Pass
NTHV	n20	5240	Ant2	5240.02	20000	3.82	25	Pass
NTLV	n20	5260	Ant2	5260.02	20000	3.8	25	Pass
NTNV	n20	5260	Ant2	5260.02	20000	3.8	25	Pass
NTHV	n20	5260	Ant2	5260.04	40000	7.6	25	Pass
NTLV	n20	5280	Ant2	5280.04	40000	7.58	25	Pass
NTNV	n20	5280	Ant2	5280.04	40000	7.58	25	Pass
NTHV	n20	5280	Ant2	5280.04	40000	7.58	25	Pass

NTLV	n20	5320	Ant2	5320	0	0	25	Pass
NTNV	n20	5320	Ant2	5320.02	20000	3.76	25	Pass
NTHV	n20	5320	Ant2	5320.04	40000	7.52	25	Pass
NTLV	n20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NTNV	n20	5500	Ant2	5500	0	0	25	Pass
NTHV	n20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NTLV	n20	5600	Ant2	5600	0	0	25	Pass
NTNV	n20	5600	Ant2	5600	0	0	25	Pass
NTHV	n20	5600	Ant2	5600	0	0	25	Pass
NTLV	n20	5700	Ant2	5700	0	0	25	Pass
NTNV	n20	5700	Ant2	5700	0	0	25	Pass
NTHV	n20	5700	Ant2	5700.02	20000	3.51	25	Pass
NTLV	n20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NTNV	n20	5745	Ant2	5745	0	0	25	Pass
NTHV	n20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NTLV	n20	5785	Ant2	5785	0	0	25	Pass
NTNV	n20	5785	Ant2	5784.98	-20000	-3.46	25	Pass
NTHV	n20	5785	Ant2	5785	0	0	25	Pass
NTLV	n20	5825	Ant2	5825.02	20000	3.43	25	Pass
NTNV	n20	5825	Ant2	5825	0	0	25	Pass
NTHV	n20	5825	Ant2	5825	0	0	25	Pass
NTLV	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
NTNV	ac20	5180	Ant1	5180	0	0	25	Pass
NTHV	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
NTLV	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
NTNV	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
NTHV	ac20	5200	Ant1	5200	0	0	25	Pass
NTLV	ac20	5240	Ant1	5240	0	0	25	Pass
NTNV	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
NTHV	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NTLV	ac20	5260	Ant1	5260	0	0	25	Pass
NTNV	ac20	5260	Ant1	5260	0	0	25	Pass
NTHV	ac20	5260	Ant1	5260	0	0	25	Pass
NTLV	ac20	5280	Ant1	5280	0	0	25	Pass
NTNV	ac20	5280	Ant1	5280	0	0	25	Pass
NTHV	ac20	5280	Ant1	5280.02	20000	3.79	25	Pass
NTLV	ac20	5320	Ant1	5320	0	0	25	Pass
NTNV	ac20	5320	Ant1	5320.02	20000	3.76	25	Pass
NTHV	ac20	5320	Ant1	5320.02	20000	3.76	25	Pass
NTLV	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NTNV	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NTHV	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NTLV	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass

NTNV	ac20	5600	Ant1	5600	0	0	25	Pass
NTHV	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
NTLV	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NTNV	ac20	5700	Ant1	5700	0	0	25	Pass
NTHV	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NTLV	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NTNV	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NTHV	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NTLV	ac20	5785	Ant1	5785	0	0	25	Pass
NTNV	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NTHV	ac20	5785	Ant1	5785	0	0	25	Pass
NTLV	ac20	5825	Ant1	5825	0	0	25	Pass
NTNV	ac20	5825	Ant1	5825	0	0	25	Pass
NTHV	ac20	5825	Ant1	5825	0	0	25	Pass
NTLV	ac20	5180	Ant2	5180	0	0	25	Pass
NTNV	ac20	5180	Ant2	5180	0	0	25	Pass
NTHV	ac20	5180	Ant2	5180	0	0	25	Pass
NTLV	ac20	5200	Ant2	5200.02	20000	3.85	25	Pass
NTNV	ac20	5200	Ant2	5200	0	0	25	Pass
NTHV	ac20	5200	Ant2	5200	0	0	25	Pass
NTLV	ac20	5240	Ant2	5240	0	0	25	Pass
NTNV	ac20	5240	Ant2	5240	0	0	25	Pass
NTHV	ac20	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NTLV	ac20	5260	Ant2	5260	0	0	25	Pass
NTNV	ac20	5260	Ant2	5260.02	20000	3.8	25	Pass
NTHV	ac20	5260	Ant2	5260	0	0	25	Pass
NTLV	ac20	5280	Ant2	5279.98	-20000	-3.79	25	Pass
NTNV	ac20	5280	Ant2	5279.98	-20000	-3.79	25	Pass
NTHV	ac20	5280	Ant2	5279.98	-20000	-3.79	25	Pass
NTLV	ac20	5320	Ant2	5320	0	0	25	Pass
NTNV	ac20	5320	Ant2	5320	0	0	25	Pass
NTHV	ac20	5320	Ant2	5320	0	0	25	Pass
NTLV	ac20	5500	Ant2	5500	0	0	25	Pass
NTNV	ac20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
NTHV	ac20	5500	Ant2	5500	0	0	25	Pass
NTLV	ac20	5600	Ant2	5599.98	-20000	-3.57	25	Pass
NTNV	ac20	5600	Ant2	5599.96	-40000	-7.14	25	Pass
NTHV	ac20	5600	Ant2	5600	0	0	25	Pass
NTLV	ac20	5700	Ant2	5700	0	0	25	Pass
NTNV	ac20	5700	Ant2	5700	0	0	25	Pass
NTHV	ac20	5700	Ant2	5700	0	0	25	Pass
NTLV	ac20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
NTNV	ac20	5745	Ant2	5745	0	0	25	Pass

NTHV	ac20	5745	Ant2	5745	0	0	25	Pass
NTLV	ac20	5785	Ant2	5785	0	0	25	Pass
NTNV	ac20	5785	Ant2	5784.98	-20000	-3.46	25	Pass
NTHV	ac20	5785	Ant2	5784.98	-20000	-3.46	25	Pass
NTLV	ac20	5825	Ant2	5825.02	20000	3.43	25	Pass
NTNV	ac20	5825	Ant2	5825	0	0	25	Pass
NTHV	ac20	5825	Ant2	5825	0	0	25	Pass

Normal Voltage

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
-20℃	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10℃	a	5180	Ant1	5180	0	0	25	Pass
0℃	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10℃	a	5180	Ant1	5180	0	0	25	Pass
30℃	a	5180	Ant1	5180	0	0	25	Pass
40℃	a	5180	Ant1	5180	0	0	25	Pass
50℃	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-20℃	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10℃	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0℃	a	5200	Ant1	5200	0	0	25	Pass
10℃	a	5200	Ant1	5200	0	0	25	Pass
30℃	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40℃	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
50℃	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20℃	a	5240	Ant1	5240	0	0	25	Pass
-10℃	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0℃	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10℃	a	5240	Ant1	5240	0	0	25	Pass
30℃	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40℃	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50℃	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-20℃	a	5260	Ant1	5260	0	0	25	Pass
-10℃	a	5260	Ant1	5260.02	20000	3.8	25	Pass
0℃	a	5260	Ant1	5260	0	0	25	Pass
10℃	a	5260	Ant1	5260	0	0	25	Pass
30℃	a	5260	Ant1	5260	0	0	25	Pass
40℃	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
50℃	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-20℃	a	5280	Ant1	5280	0	0	25	Pass
-10℃	a	5280	Ant1	5280	0	0	25	Pass
0℃	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
10℃	a	5280	Ant1	5280	0	0	25	Pass
30℃	a	5280	Ant1	5280	0	0	25	Pass
40℃	a	5280	Ant1	5280	0	0	25	Pass

50℃	a	5280	Ant1	5280.02	20000	3.79	25	Pass
-20℃	a	5320	Ant1	5320	0	0	25	Pass
-10℃	a	5320	Ant1	5320	0	0	25	Pass
0℃	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
10℃	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
30℃	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
40℃	a	5320	Ant1	5320	0	0	25	Pass
50℃	a	5320	Ant1	5320	0	0	25	Pass
-20℃	a	5500	Ant1	5500.02	20000	3.64	25	Pass
-10℃	a	5500	Ant1	5500	0	0	25	Pass
0℃	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
10℃	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
30℃	a	5500	Ant1	5500.02	20000	3.64	25	Pass
40℃	a	5500	Ant1	5500	0	0	25	Pass
50℃	a	5500	Ant1	5500	0	0	25	Pass
-20℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
-10℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
0℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
10℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
30℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
40℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
50℃	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
-20℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
-10℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
0℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
10℃	a	5700	Ant1	5700	0	0	25	Pass
30℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
40℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
50℃	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
-20℃	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10℃	a	5745	Ant1	5745	0	0	25	Pass
0℃	a	5745	Ant1	5745	0	0	25	Pass
10℃	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30℃	a	5745	Ant1	5745	0	0	25	Pass
40℃	a	5745	Ant1	5745	0	0	25	Pass
50℃	a	5745	Ant1	5745	0	0	25	Pass
-20℃	a	5785	Ant1	5785	0	0	25	Pass
-10℃	a	5785	Ant1	5784.98	-20000	-3.46	25	Pass
0℃	a	5785	Ant1	5785	0	0	25	Pass
10℃	a	5785	Ant1	5784.98	-20000	-3.46	25	Pass
30℃	a	5785	Ant1	5785	0	0	25	Pass
40℃	a	5785	Ant1	5785	0	0	25	Pass
50℃	a	5785	Ant1	5785	0	0	25	Pass
-20℃	a	5825	Ant1	5825	0	0	25	Pass
-10℃	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass

0℃	a	5825	Ant1	5825	0	0	25	Pass
10℃	a	5825	Ant1	5825	0	0	25	Pass
30℃	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40℃	a	5825	Ant1	5825	0	0	25	Pass
50℃	a	5825	Ant1	5825	0	0	25	Pass
-20℃	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
-10℃	a	5180	Ant2	5180	0	0	25	Pass
0℃	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
10℃	a	5180	Ant2	5180	0	0	25	Pass
30℃	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
40℃	a	5180	Ant2	5180	0	0	25	Pass
50℃	a	5180	Ant2	5180	0	0	25	Pass
-20℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
-10℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
0℃	a	5200	Ant2	5200	0	0	25	Pass
10℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
30℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
40℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
50℃	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
-20℃	a	5240	Ant2	5240	0	0	25	Pass
-10℃	a	5240	Ant2	5240.02	20000	3.82	25	Pass
0℃	a	5240	Ant2	5240.02	20000	3.82	25	Pass
10℃	a	5240	Ant2	5240	0	0	25	Pass
30℃	a	5240	Ant2	5239.98	-20000	-3.82	25	Pass
40℃	a	5240	Ant2	5239.98	-20000	-3.82	25	Pass
50℃	a	5240	Ant2	5240	0	0	25	Pass
-20℃	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
-10℃	a	5260	Ant2	5260	0	0	25	Pass
0℃	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
10℃	a	5260	Ant2	5260	0	0	25	Pass
30℃	a	5260	Ant2	5260.02	20000	3.8	25	Pass
40℃	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
50℃	a	5260	Ant2	5259.98	-20000	-3.8	25	Pass
-20℃	a	5280	Ant2	5280.02	20000	3.79	25	Pass
-10℃	a	5280	Ant2	5280	0	0	25	Pass
0℃	a	5280	Ant2	5280	0	0	25	Pass
10℃	a	5280	Ant2	5280	0	0	25	Pass
30℃	a	5280	Ant2	5280	0	0	25	Pass
40℃	a	5280	Ant2	5280	0	0	25	Pass
50℃	a	5280	Ant2	5279.98	-20000	-3.79	25	Pass
-20℃	a	5320	Ant2	5319.98	-20000	-3.76	25	Pass
-10℃	a	5320	Ant2	5319.98	-20000	-3.76	25	Pass
0℃	a	5320	Ant2	5320.02	20000	3.76	25	Pass
10℃	a	5320	Ant2	5319.98	-20000	-3.76	25	Pass
30℃	a	5320	Ant2	5320	0	0	25	Pass

40℃	a	5320	Ant2	5319.98	-20000	-3.76	25	Pass
50℃	a	5320	Ant2	5320.02	20000	3.76	25	Pass
-20℃	a	5500	Ant2	5499.98	-20000	-3.64	25	Pass
-10℃	a	5500	Ant2	5499.98	-20000	-3.64	25	Pass
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10℃	a	5500	Ant2	5500	0	0	25	Pass
30℃	a	5500	Ant2	5500	0	0	25	Pass
40℃	a	5500	Ant2	5500	0	0	25	Pass
50℃	a	5500	Ant2	5499.98	-20000	-3.64	25	Pass
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-10℃	a	5600	Ant2	5599.98	-20000	-3.57	25	Pass
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10℃	a	5600	Ant2	5599.98	-20000	-3.57	25	Pass
30℃	a	5600	Ant2	5599.98	-20000	-3.57	25	Pass
40℃	a	5600	Ant2	5599.98	-20000	-3.57	25	Pass
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-20℃	a	5700	Ant2	5700	0	0	25	Pass
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10℃	a	5700	Ant2	5700	0	0	25	Pass
30℃	a	5700	Ant2	5700	0	0	25	Pass
40℃	a	5700	Ant2	5699.98	-20000	-3.51	25	Pass
50℃	a	5700	Ant2	5699.98	-20000	-3.51	25	Pass
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10℃	a	5745	Ant2	5744.98	-20000	-3.48	25	Pass
30℃	a	5745	Ant2	5745	0	0	25	Pass
40℃	a	5745	Ant2	5744.98	-20000	-3.48	25	Pass
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-20℃	a	5785	Ant2	5784.98	-20000	-3.46	25	Pass
-10℃	a	5785	Ant2	5784.98	-20000	-3.46	25	Pass
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10℃	a	5785	Ant2	5785	0	0	25	Pass
30℃	a	5785	Ant2	5785	0	0	25	Pass
40℃	a	5785	Ant2	5785	0	0	25	Pass
50℃	a	5785	Ant2	5784.98	-20000	-3.46	25	Pass
-20℃	a	5825	Ant2	5824.98	-20000	-3.43	25	Pass
-10℃	a	5825	Ant2	5825	0	0	25	Pass
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10℃	a	5825	Ant2	5824.98	-20000	-3.43	25	Pass
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40℃	a	5825	Ant2	5824.98	-20000	-3.43	25	Pass
50℃	a	5825	Ant2	5825	0	0	25	Pass
-20℃	n20	5180	Ant1	5180	0	0	25	Pass

-10℃	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0℃	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
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30℃	n20	5180	Ant1	5180	0	0	25	Pass
40℃	n20	5180	Ant1	5180	0	0	25	Pass
50℃	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-20℃	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
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10℃	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
30℃	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40℃	n20	5200	Ant1	5200	0	0	25	Pass
50℃	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20℃	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
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10℃	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
30℃	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
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-10℃	n20	5260	Ant1	5260	0	0	25	Pass
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40℃	n20	5260	Ant1	5260	0	0	25	Pass
50℃	n20	5260	Ant1	5260	0	0	25	Pass
-20℃	n20	5280	Ant1	5280.02	20000	3.79	25	Pass
-10℃	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
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10℃	n20	5280	Ant1	5280	0	0	25	Pass
30℃	n20	5280	Ant1	5280	0	0	25	Pass
40℃	n20	5280	Ant1	5280	0	0	25	Pass
50℃	n20	5280	Ant1	5280.02	20000	3.79	25	Pass
-20℃	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
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30℃	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
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50℃	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
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10℃	n20	5500	Ant1	5500	0	0	25	Pass

30℃	n20	5500	Ant1	5500	0	0	25	Pass
40℃	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
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30℃	n20	5600	Ant1	5600	0	0	25	Pass
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-20℃	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
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30℃	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
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50℃	n20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
-20℃	n20	5745	Ant1	5745.02	20000	3.48	25	Pass
-10℃	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
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10℃	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
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40℃	n20	5745	Ant1	5745.02	20000	3.48	25	Pass
50℃	n20	5745	Ant1	5745	0	0	25	Pass
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50℃	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
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10℃	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
30℃	n20	5825	Ant1	5825	0	0	25	Pass
40℃	n20	5825	Ant1	5825	0	0	25	Pass
50℃	n20	5825	Ant1	5825	0	0	25	Pass
-20℃	n20	5180	Ant2	5180	0	0	25	Pass
-10℃	n20	5180	Ant2	5180	0	0	25	Pass
0℃	n20	5180	Ant2	5180.02	20000	3.86	25	Pass
10℃	n20	5180	Ant2	5180.02	20000	3.86	25	Pass
30℃	n20	5180	Ant2	5180.02	20000	3.86	25	Pass
40℃	n20	5180	Ant2	5180.04	40000	7.72	25	Pass
50℃	n20	5180	Ant2	5180	0	0	25	Pass

-20℃	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
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0℃	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
10℃	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
30℃	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
40℃	n20	5200	Ant2	5200.04	40000	7.69	25	Pass
50℃	n20	5200	Ant2	5200.02	20000	3.85	25	Pass
-20℃	n20	5240	Ant2	5240.04	40000	7.63	25	Pass
-10℃	n20	5240	Ant2	5240.02	20000	3.82	25	Pass
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10℃	n20	5240	Ant2	5240.02	20000	3.82	25	Pass
30℃	n20	5240	Ant2	5240.02	20000	3.82	25	Pass
40℃	n20	5240	Ant2	5240.04	40000	7.63	25	Pass
50℃	n20	5240	Ant2	5240.04	40000	7.63	25	Pass
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30℃	n20	5260	Ant2	5260.04	40000	7.6	25	Pass
40℃	n20	5260	Ant2	5260.02	20000	3.8	25	Pass
50℃	n20	5260	Ant2	5260.02	20000	3.8	25	Pass
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30℃	n20	5280	Ant2	5280.04	40000	7.58	25	Pass
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10℃	n20	5320	Ant2	5320.02	20000	3.76	25	Pass
30℃	n20	5320	Ant2	5320.04	40000	7.52	25	Pass
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10℃	n20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
30℃	n20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
40℃	n20	5500	Ant2	5500	0	0	25	Pass
50℃	n20	5500	Ant2	5499.98	-20000	-3.64	25	Pass
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10℃	n20	5600	Ant2	5600	0	0	25	Pass
30℃	n20	5600	Ant2	5599.98	-20000	-3.57	25	Pass
40℃	n20	5600	Ant2	5599.98	-20000	-3.57	25	Pass
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30℃	n20	5700	Ant2	5700	0	0	25	Pass
40℃	n20	5700	Ant2	5700	0	0	25	Pass
50℃	n20	5700	Ant2	5699.98	-20000	-3.51	25	Pass
-20℃	n20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
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30℃	n20	5745	Ant2	5744.98	-20000	-3.48	25	Pass
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0℃	n20	5785	Ant2	5785	0	0	25	Pass
10℃	n20	5785	Ant2	5785	0	0	25	Pass
30℃	n20	5785	Ant2	5784.98	-20000	-3.46	25	Pass
40℃	n20	5785	Ant2	5785	0	0	25	Pass
50℃	n20	5785	Ant2	5785	0	0	25	Pass
-20℃	n20	5825	Ant2	5824.98	-20000	-3.43	25	Pass
-10℃	n20	5825	Ant2	5824.96	-40000	-6.87	25	Pass
0℃	n20	5825	Ant2	5825	0	0	25	Pass
10℃	n20	5825	Ant2	5825	0	0	25	Pass
30℃	n20	5825	Ant2	5825	0	0	25	Pass
40℃	n20	5825	Ant2	5824.98	-20000	-3.43	25	Pass
50℃	n20	5825	Ant2	5824.98	-20000	-3.43	25	Pass
-20℃	ac20	5180	Ant1	5180.04	40000	7.72	25	Pass
-10℃	ac20	5180	Ant1	5180	0	0	25	Pass
0℃	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
10℃	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
30℃	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
40℃	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
50℃	ac20	5180	Ant1	5180.04	40000	7.72	25	Pass
-20℃	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
-10℃	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
0℃	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
10℃	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
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50℃	ac20	5200	Ant1	5200	0	0	25	Pass
-20℃	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
-10℃	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
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30℃	ac20	5240	Ant1	5240	0	0	25	Pass
40℃	ac20	5240	Ant1	5240	0	0	25	Pass
50℃	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
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10℃	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
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40℃	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
50℃	ac20	5260	Ant1	5260.02	20000	3.8	25	Pass
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10℃	ac20	5280	Ant1	5280	0	0	25	Pass
30℃	ac20	5280	Ant1	5280	0	0	25	Pass
40℃	ac20	5280	Ant1	5280	0	0	25	Pass
50℃	ac20	5280	Ant1	5280	0	0	25	Pass
-20℃	ac20	5320	Ant1	5320	0	0	25	Pass
-10℃	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
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10℃	ac20	5320	Ant1	5320	0	0	25	Pass
30℃	ac20	5320	Ant1	5320	0	0	25	Pass
40℃	ac20	5320	Ant1	5320	0	0	25	Pass
50℃	ac20	5320	Ant1	5320.04	40000	7.52	25	Pass
-20℃	ac20	5500	Ant1	5500	0	0	25	Pass
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10℃	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
30℃	ac20	5500	Ant1	5500	0	0	25	Pass
40℃	ac20	5500	Ant1	5500	0	0	25	Pass
50℃	ac20	5500	Ant1	5500	0	0	25	Pass
-20℃	ac20	5600	Ant1	5600.02	20000	3.57	25	Pass
-10℃	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
0℃	ac20	5600	Ant1	5600	0	0	25	Pass
10℃	ac20	5600	Ant1	5600	0	0	25	Pass
30℃	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
40℃	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
50℃	ac20	5600	Ant1	5600	0	0	25	Pass
-20℃	ac20	5700	Ant1	5700	0	0	25	Pass
-10℃	ac20	5700	Ant1	5700	0	0	25	Pass

0℃	ac20	5700	Ant1	5700	0	0	25	Pass
10℃	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
30℃	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
40℃	ac20	5700	Ant1	5700	0	0	25	Pass
50℃	ac20	5700	Ant1	5700	0	0	25	Pass
-20℃	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-10℃	ac20	5745	Ant1	5745	0	0	25	Pass
0℃	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10℃	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30℃	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
40℃	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
50℃	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-20℃	ac20	5785	Ant1	5785	0	0	25	Pass
-10℃	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
0℃	ac20	5785	Ant1	5785	0	0	25	Pass
10℃	ac20	5785	Ant1	5785	0	0	25	Pass
30℃	ac20	5785	Ant1	5785	0	0	25	Pass
40℃	ac20	5785	Ant1	5785	0	0	25	Pass
50℃	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-20℃	ac20	5825	Ant1	5825	0	0	25	Pass
-10℃	ac20	5825	Ant1	5825.02	20000	3.43	25	Pass
0℃	ac20	5825	Ant1	5825	0	0	25	Pass
10℃	ac20	5825	Ant1	5825	0	0	25	Pass
30℃	ac20	5825	Ant1	5825	0	0	25	Pass
40℃	ac20	5825	Ant1	5825	0	0	25	Pass
50℃	ac20	5825	Ant1	5825	0	0	25	Pass
-20℃	ac20	5180	Ant2	5180	0	0	25	Pass
-10℃	ac20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
0℃	ac20	5180	Ant2	5180	0	0	25	Pass
10℃	ac20	5180	Ant2	5180	0	0	25	Pass
30℃	ac20	5180	Ant2	5180	0	0	25	Pass
40℃	ac20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
50℃	ac20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
-20℃	ac20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
-10℃	ac20	5200	Ant2	5200	0	0	25	Pass
0℃	ac20	5200	Ant2	5200	0	0	25	Pass
10℃	ac20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
30℃	ac20	5200	Ant2	5200.02	20000	3.85	25	Pass
40℃	ac20	5200	Ant2	5199.96	-40000	-7.69	25	Pass
50℃	ac20	5200	Ant2	5200	0	0	25	Pass
-20℃	ac20	5240	Ant2	5240	0	0	25	Pass
-10℃	ac20	5240	Ant2	5240	0	0	25	Pass
0℃	ac20	5240	Ant2	5240	0	0	25	Pass
10℃	ac20	5240	Ant2	5239.98	-20000	-3.82	25	Pass
30℃	ac20	5240	Ant2	5240	0	0	25	Pass