

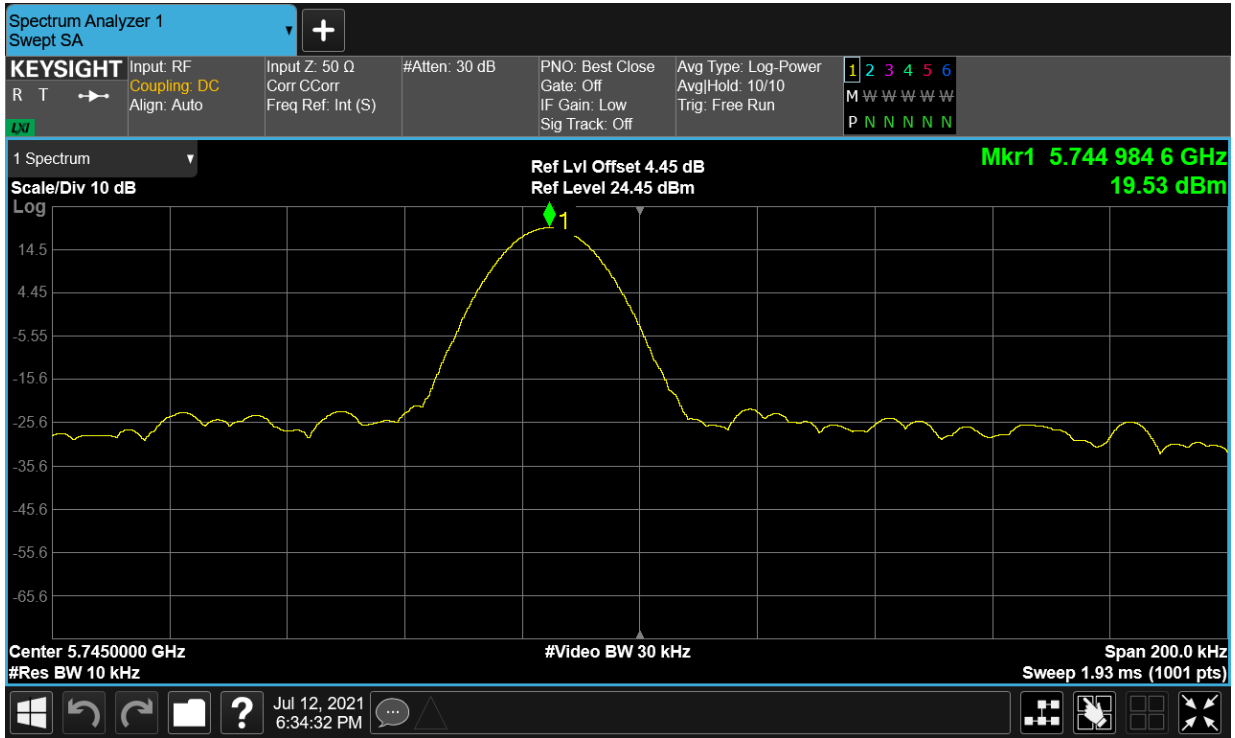
## Test Data

### Frequency Stability (worst case mode)

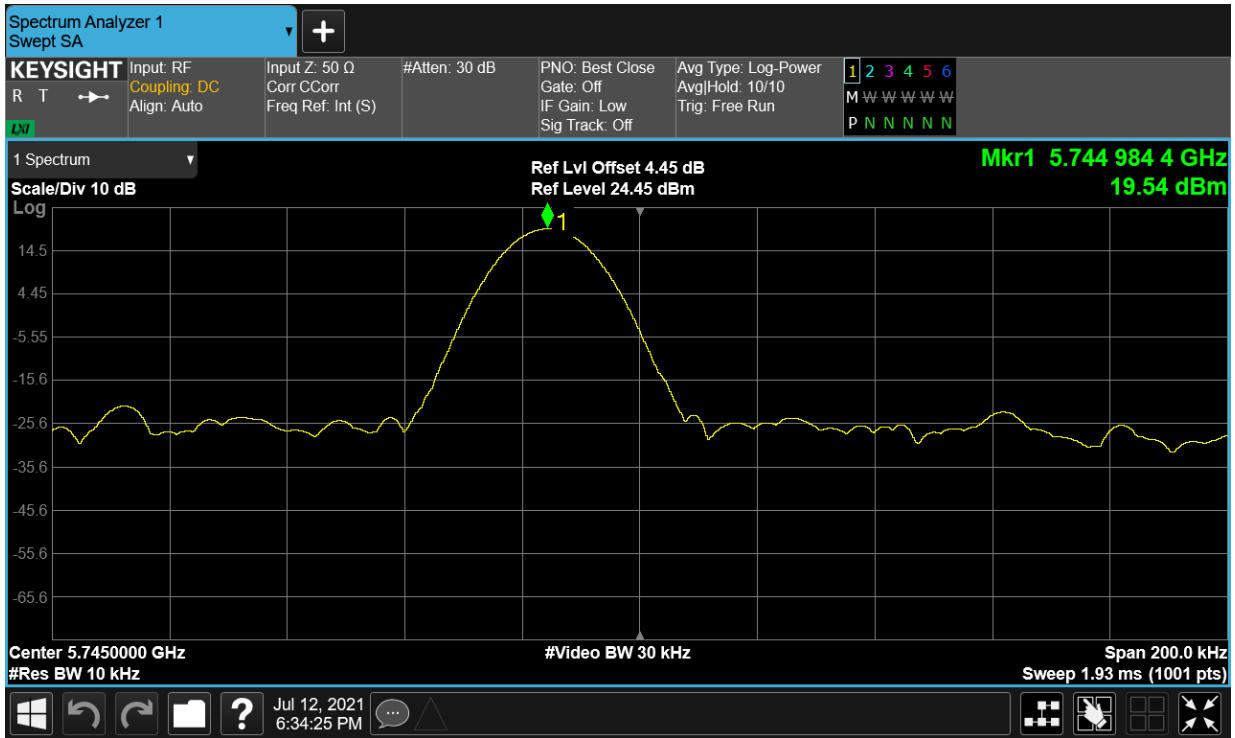
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5745	Ant1	5744.9846	-2.68	25	Pass
HVLT	a	5745	Ant1	5744.9844	-2.72	25	Pass
LVHT	a	5745	Ant1	5744.984	-2.79	25	Pass
LVLT	a	5745	Ant1	5744.9838	-2.82	25	Pass
NVNT	a	5745	Ant1	5744.9832	-2.92	25	Pass
HVHT	ac80	5775	Ant1	5774.9838	-2.81	25	Pass
HVLT	ac80	5775	Ant1	5774.9838	-2.81	25	Pass
LVHT	ac80	5775	Ant1	5774.9836	-2.84	25	Pass
LVLT	ac80	5775	Ant1	5774.9834	-2.87	25	Pass
NVNT	ac80	5775	Ant1	5774.984	-2.77	25	Pass
HVHT	n40	5755	Ant1	5754.9838	-2.81	25	Pass
HVLT	n40	5755	Ant1	5754.9836	-2.85	25	Pass
LVHT	n40	5755	Ant1	5754.9832	-2.92	25	Pass
LVLT	n40	5755	Ant1	5754.9828	-2.99	25	Pass
NVNT	n40	5755	Ant1	5754.9822	-3.09	25	Pass

Remark: "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.

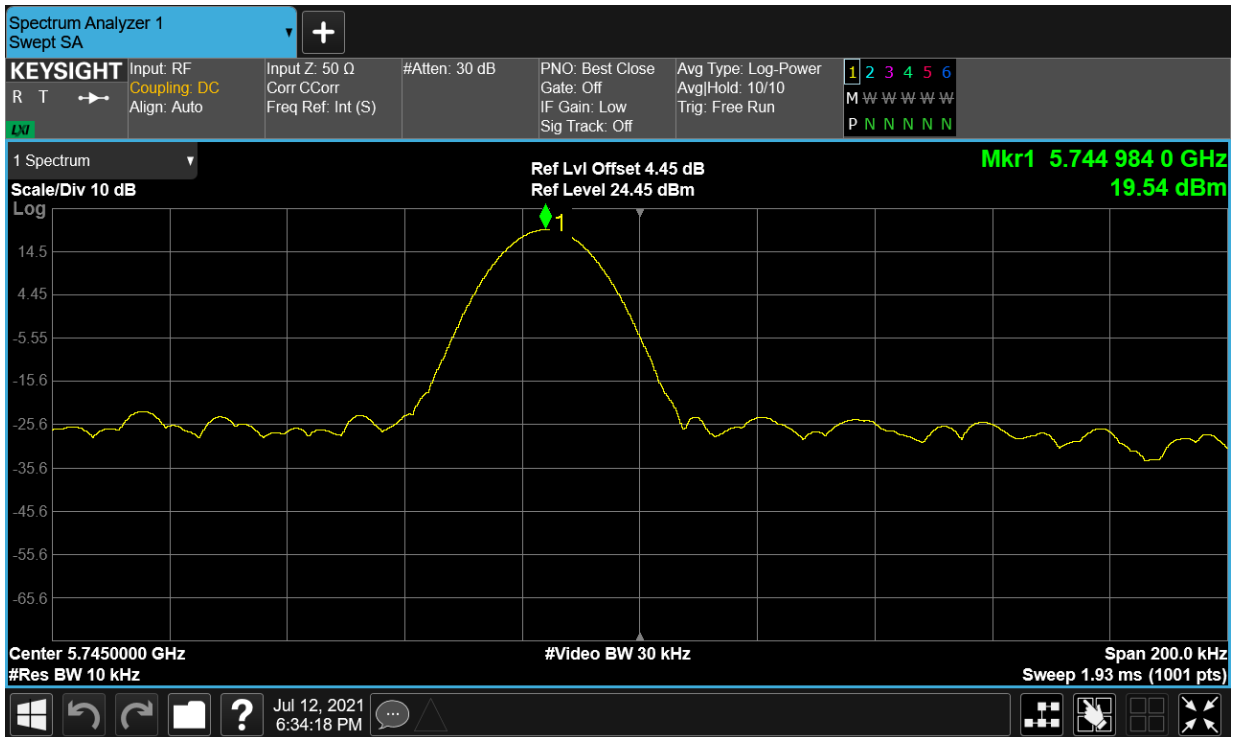
Freq. Stability HVHT a 5745MHz Ant1



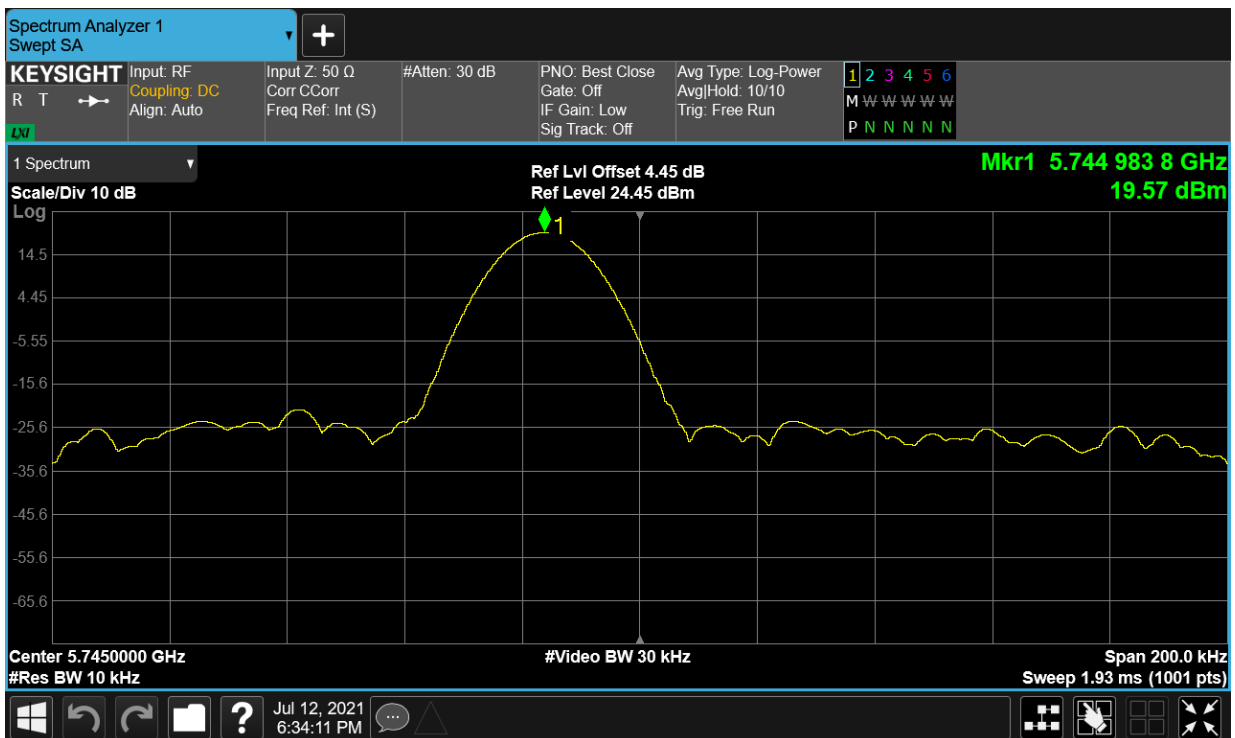
Freq. Stability HVLT a 5745MHz Ant1



Freq. Stability LVHT a 5745MHz Ant1



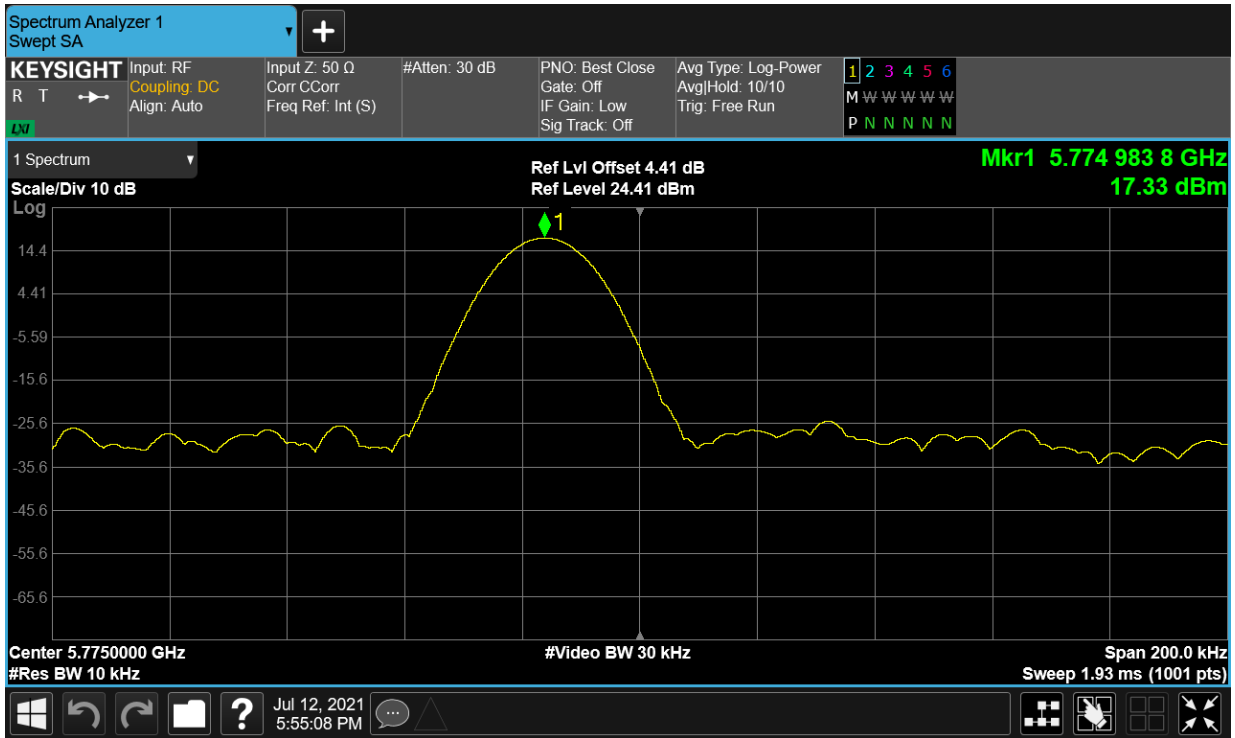
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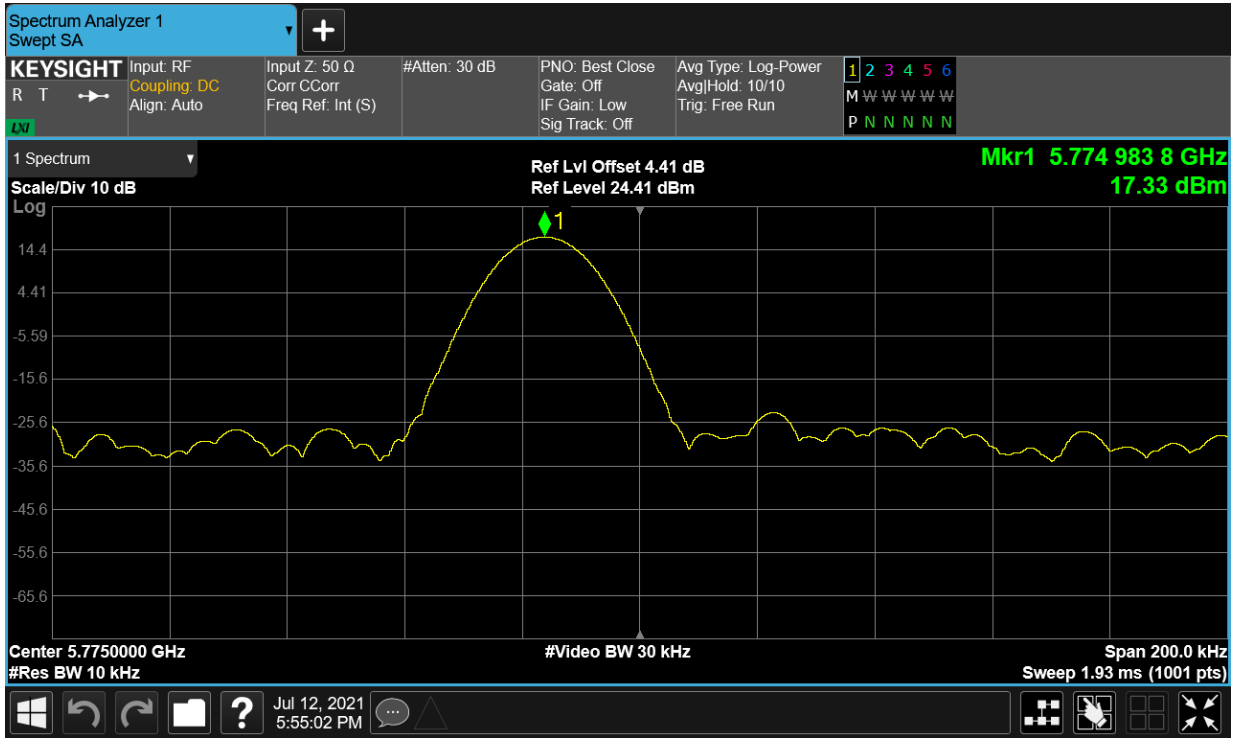
Freq. Stability NVNT a 5745MHz Ant1



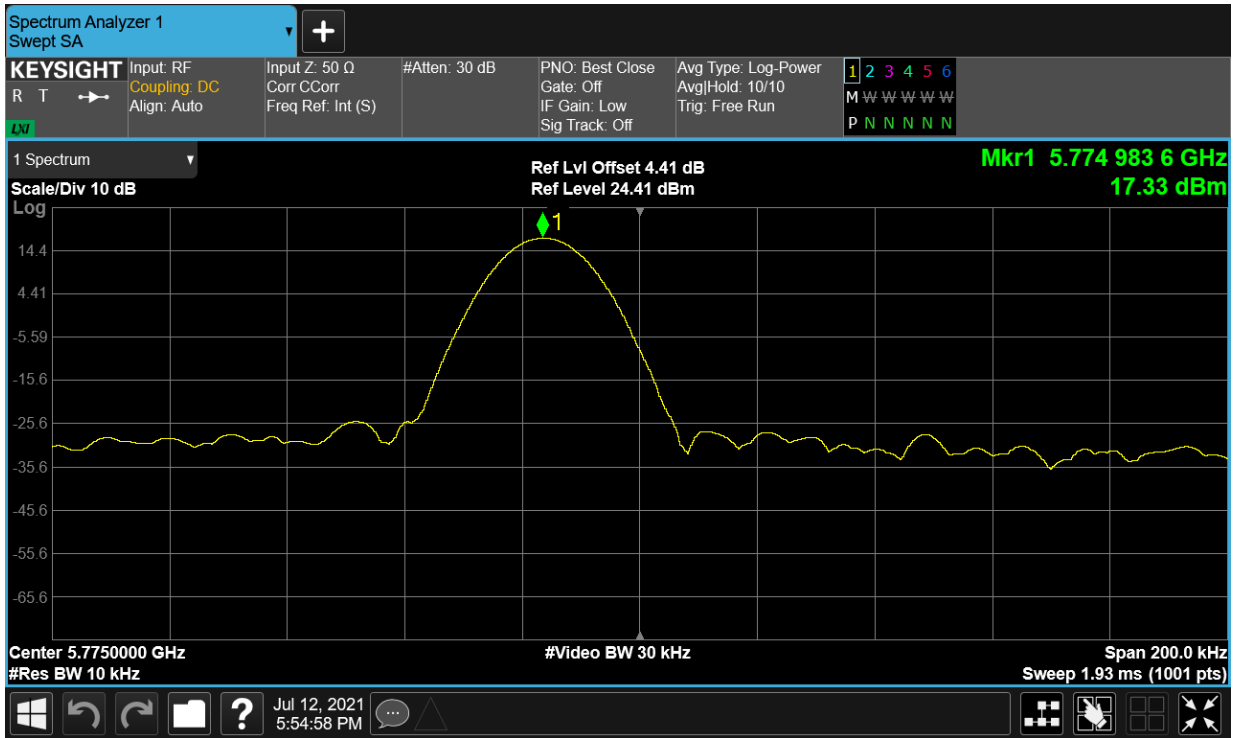
Freq. Stability HVHT ac80 5775MHz Ant1



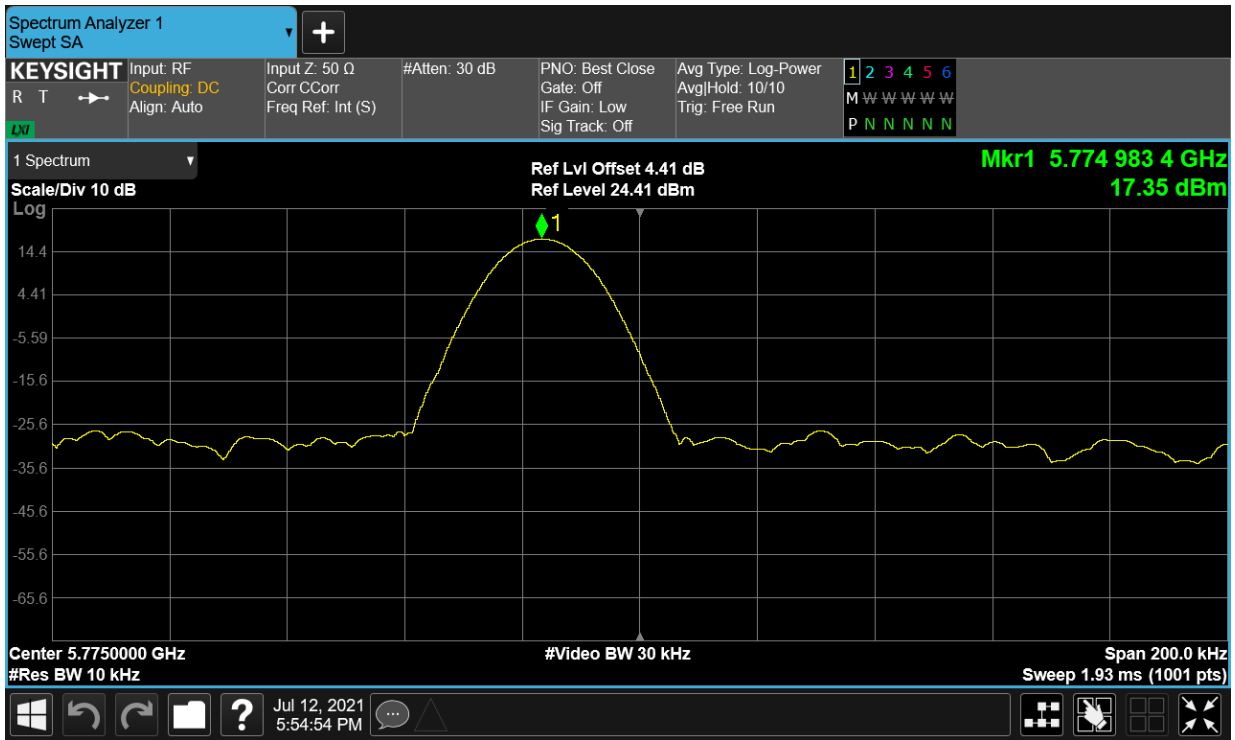
Freq. Stability HVLT ac80 5775MHz Ant1



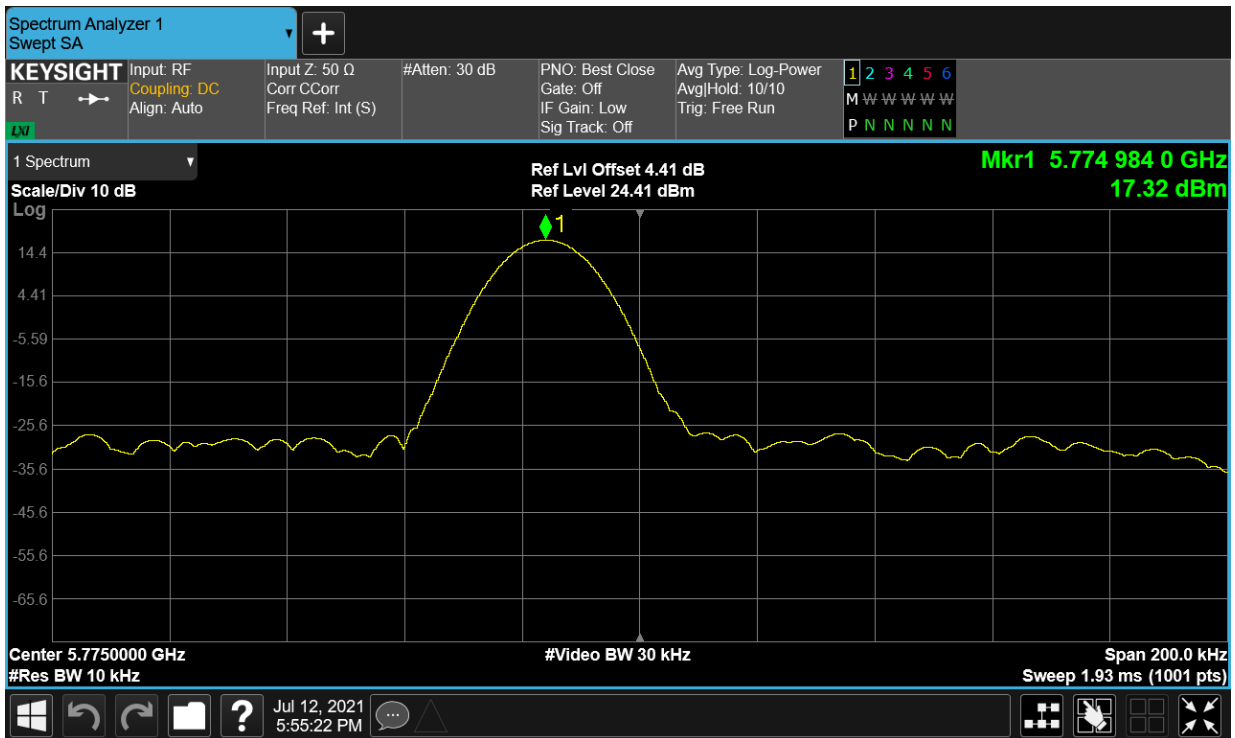
Freq. Stability LVHT ac80 5775MHz Ant1



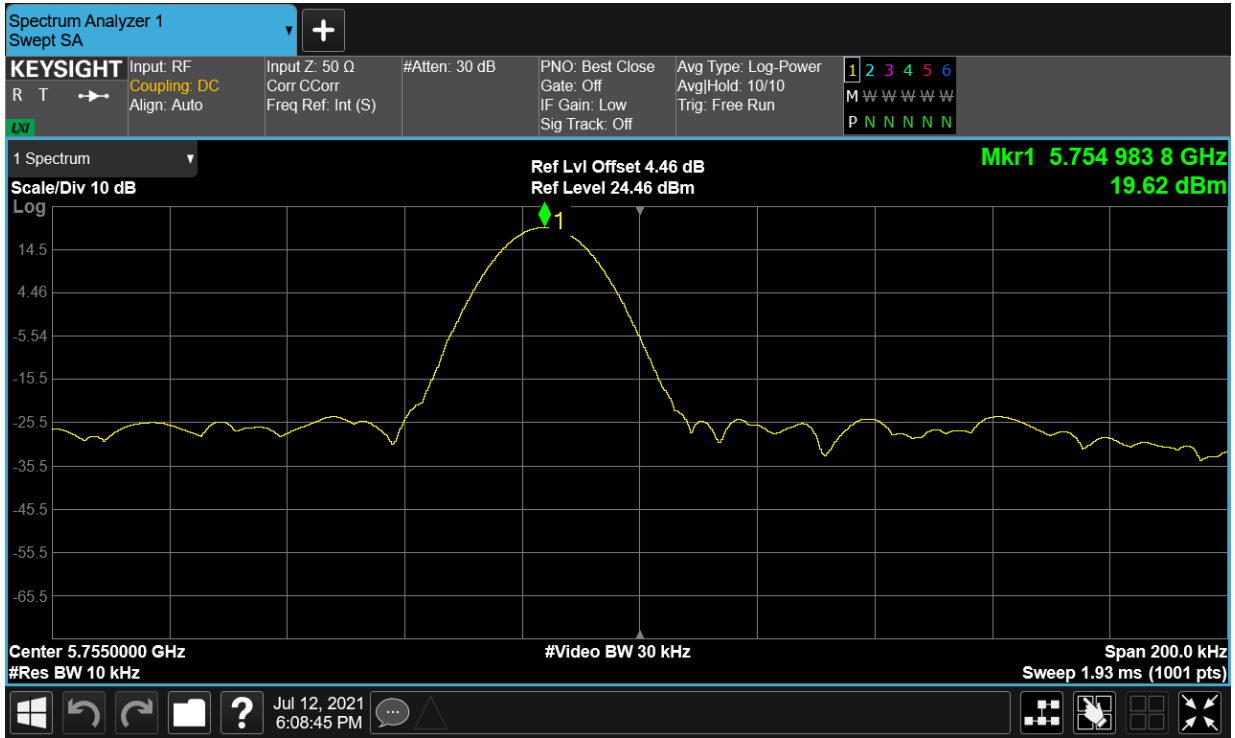
Freq. Stability LVLT ac80 5775MHz Ant1



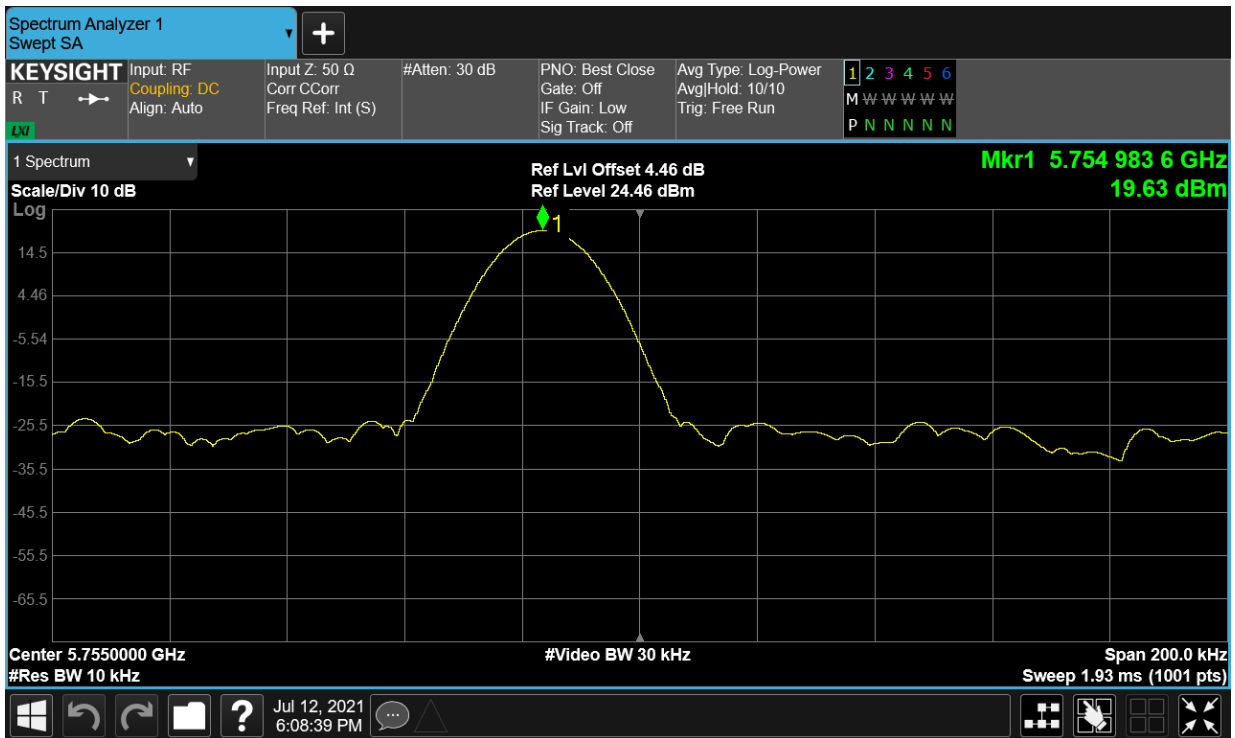
Freq. Stability NVNT ac80 5775MHz Ant1



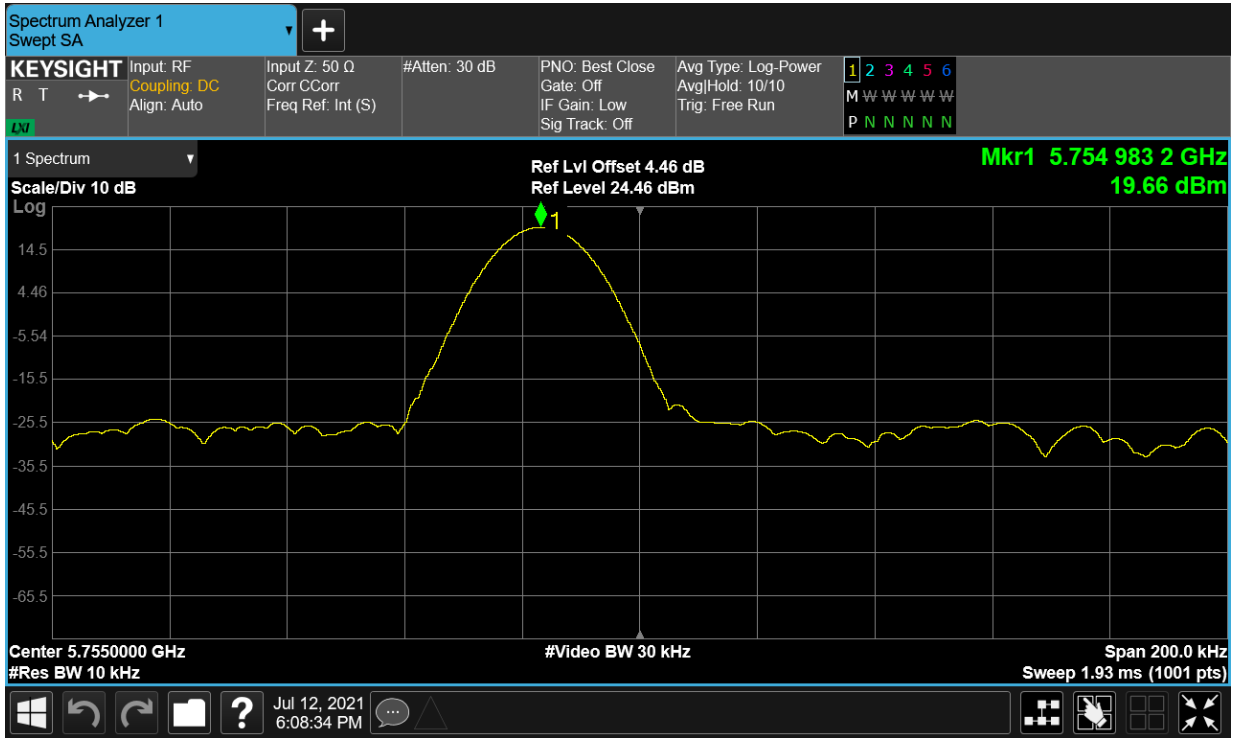
Freq. Stability HVHT n40 5755MHz Ant1



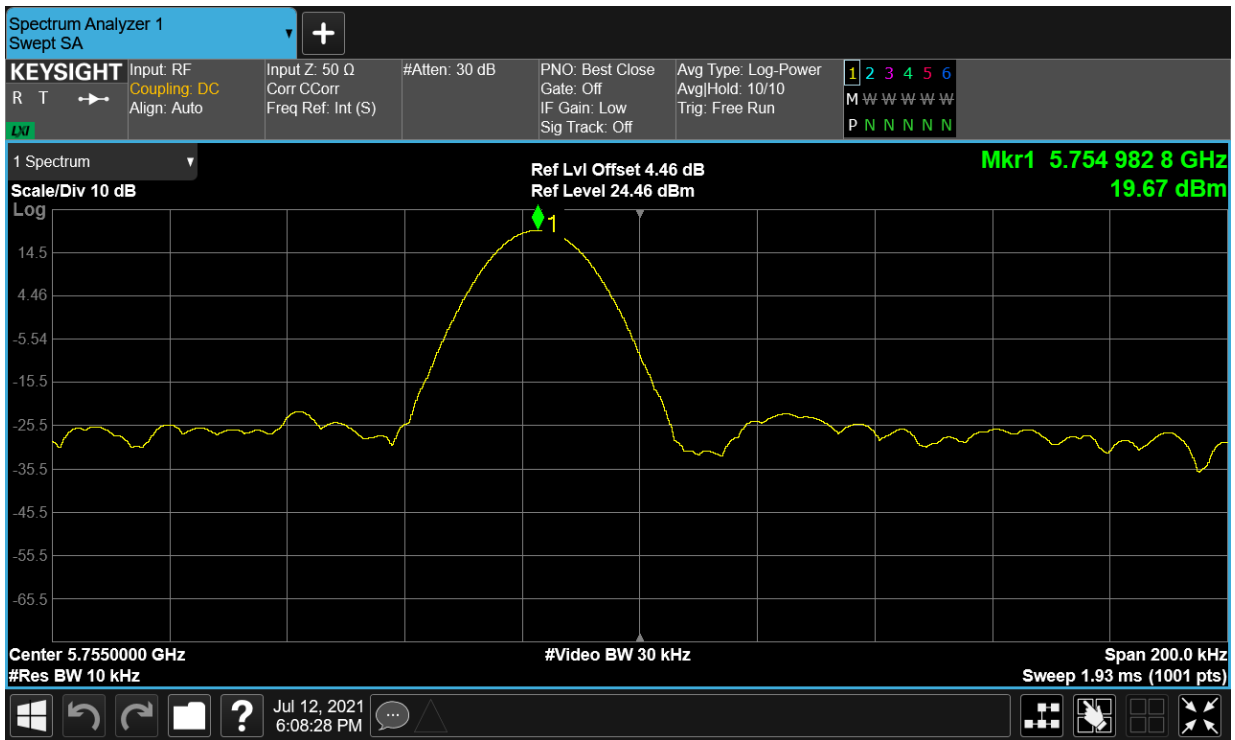
Freq. Stability HVLT n40 5755MHz Ant1



Freq. Stability LVHT n40 5755MHz Ant1

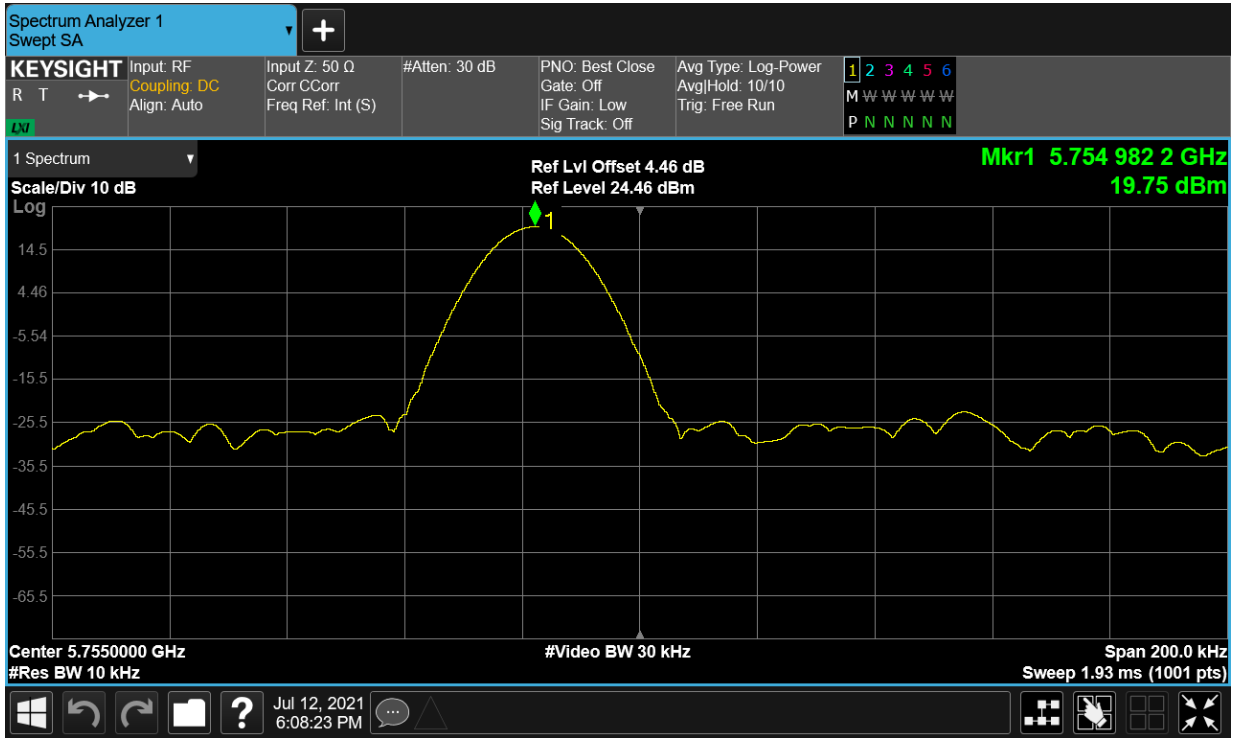


Freq. Stability LVLT n40 5755MHz Ant1





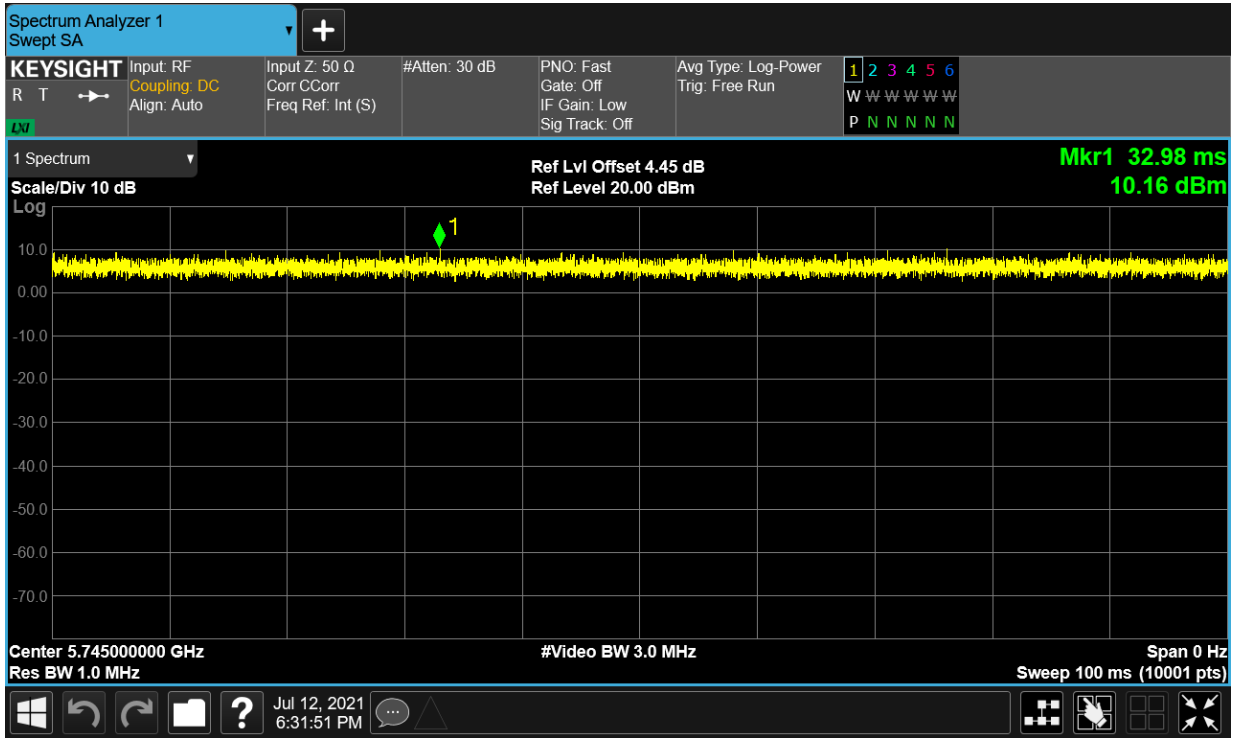
Freq. Stability NVNT n40 5755MHz Ant1



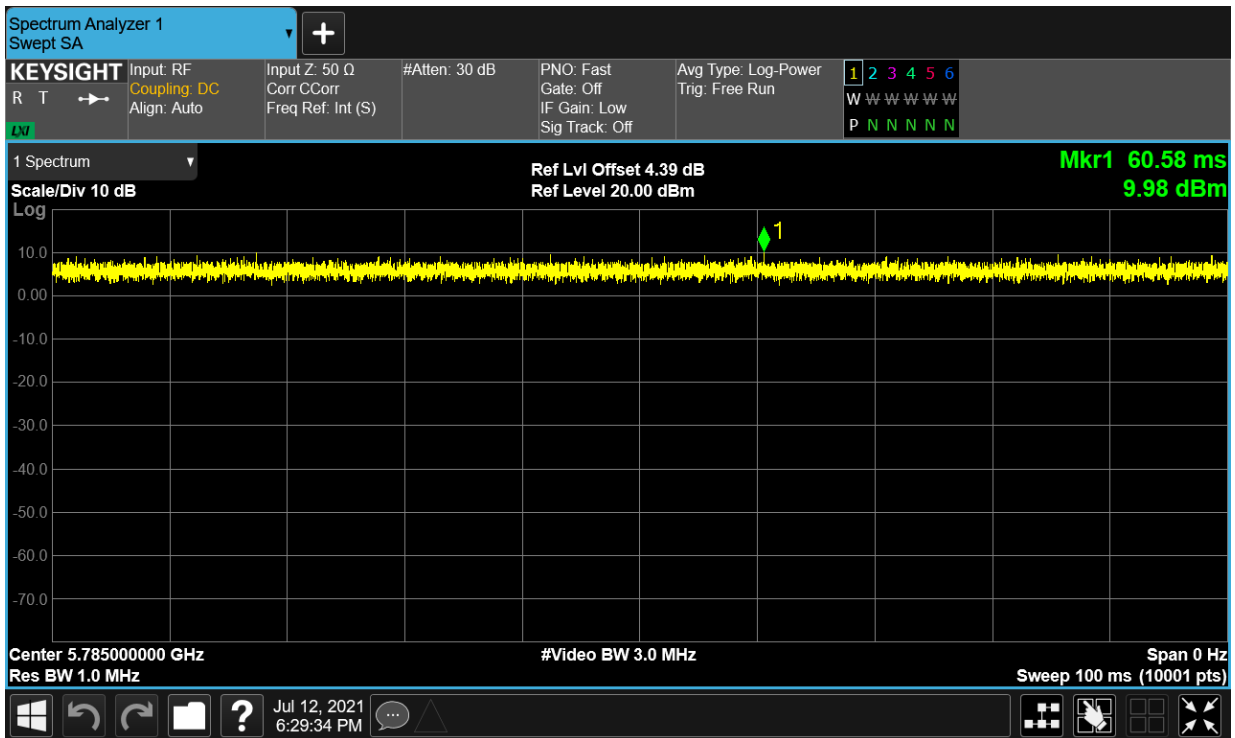
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	ac20	5745	Ant1	100	0
NVNT	ac20	5785	Ant1	100	0
NVNT	ac20	5825	Ant1	100	0
NVNT	ac40	5755	Ant1	100	0
NVNT	ac40	5795	Ant1	100	0
NVNT	ac80	5775	Ant1	100	0
NVNT	n20	5745	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n20	5825	Ant1	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	n40	5795	Ant1	100	0

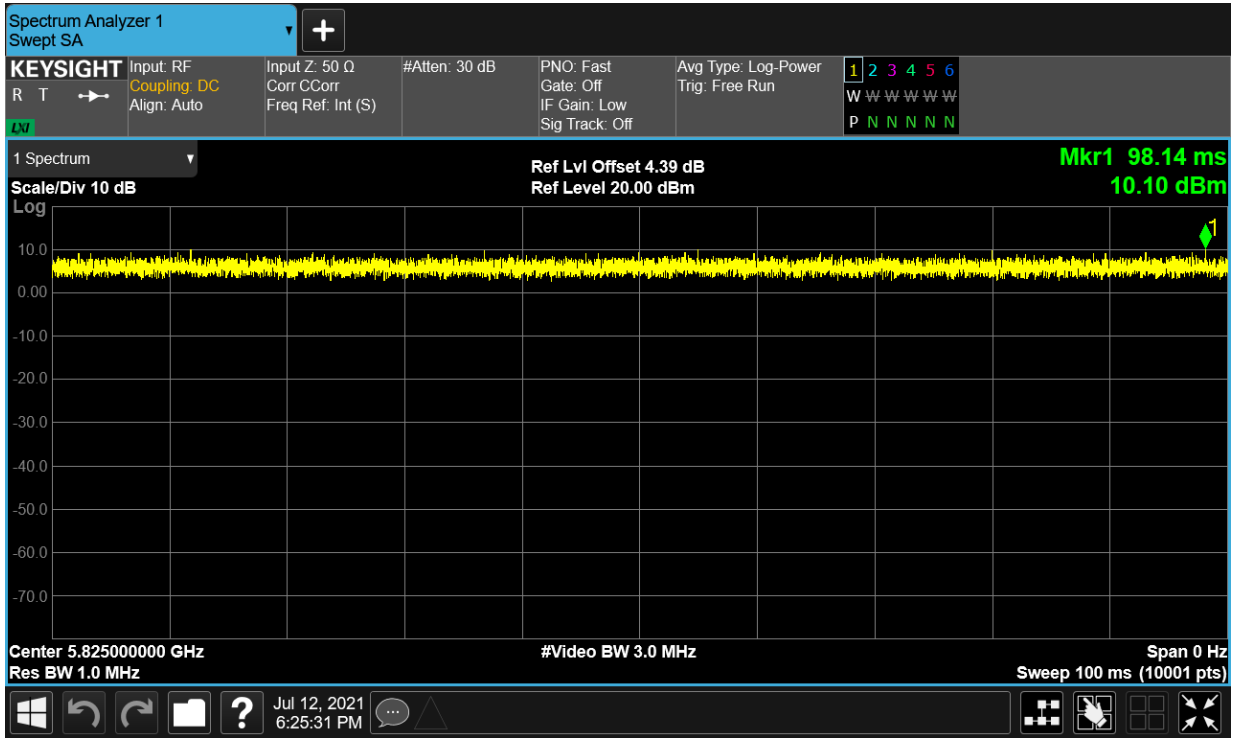
Duty Cycle NVNT a 5745MHz Ant1



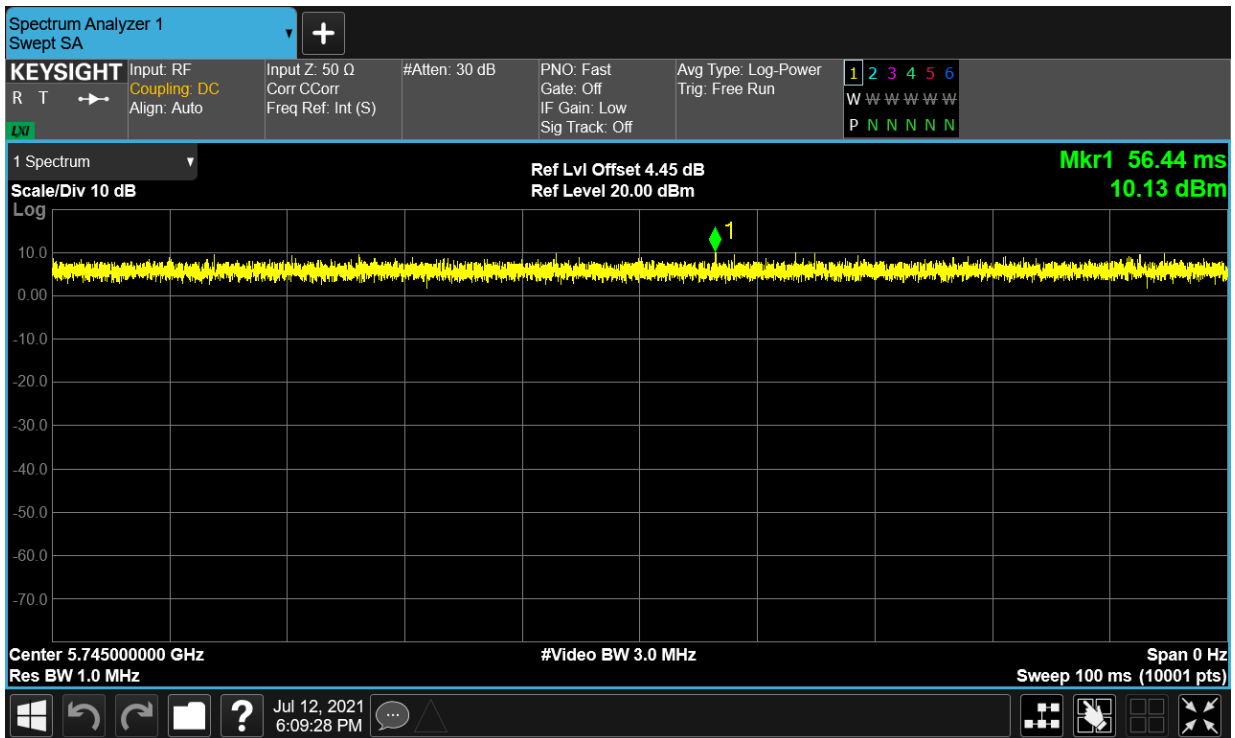
Duty Cycle NVNT a 5785MHz Ant1



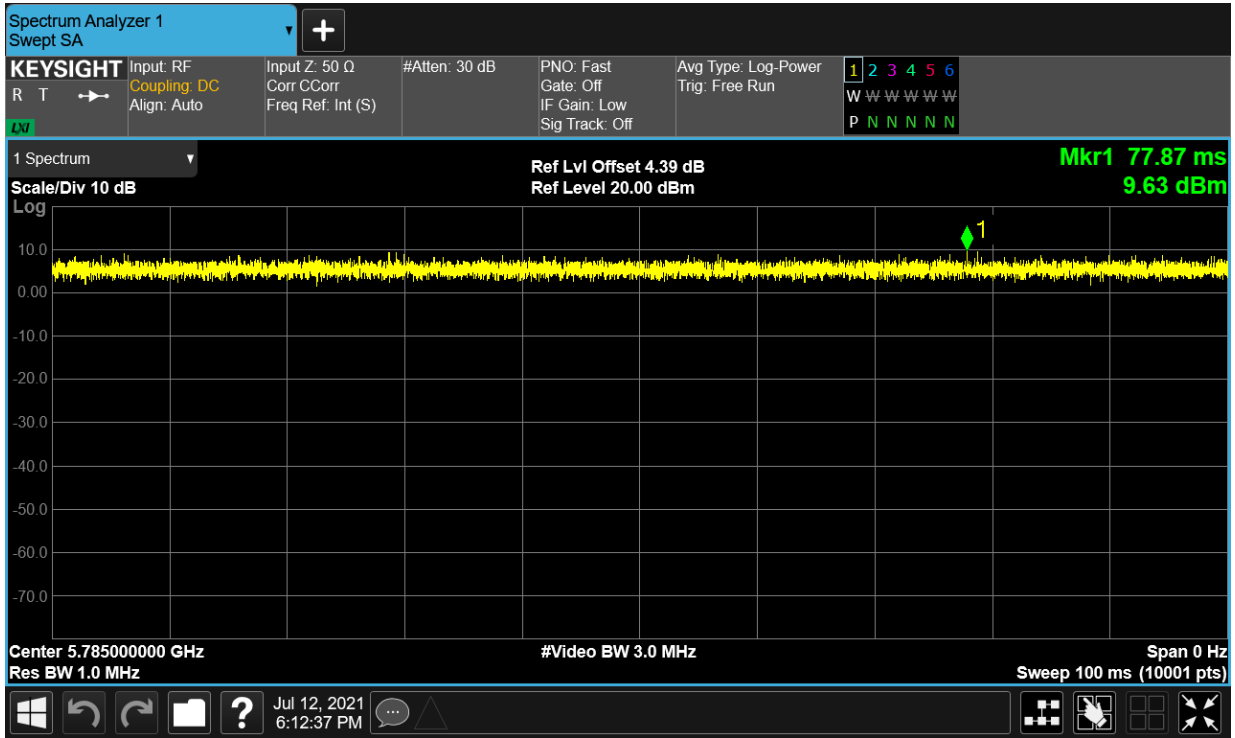
Duty Cycle NVNT a 5825MHz Ant1



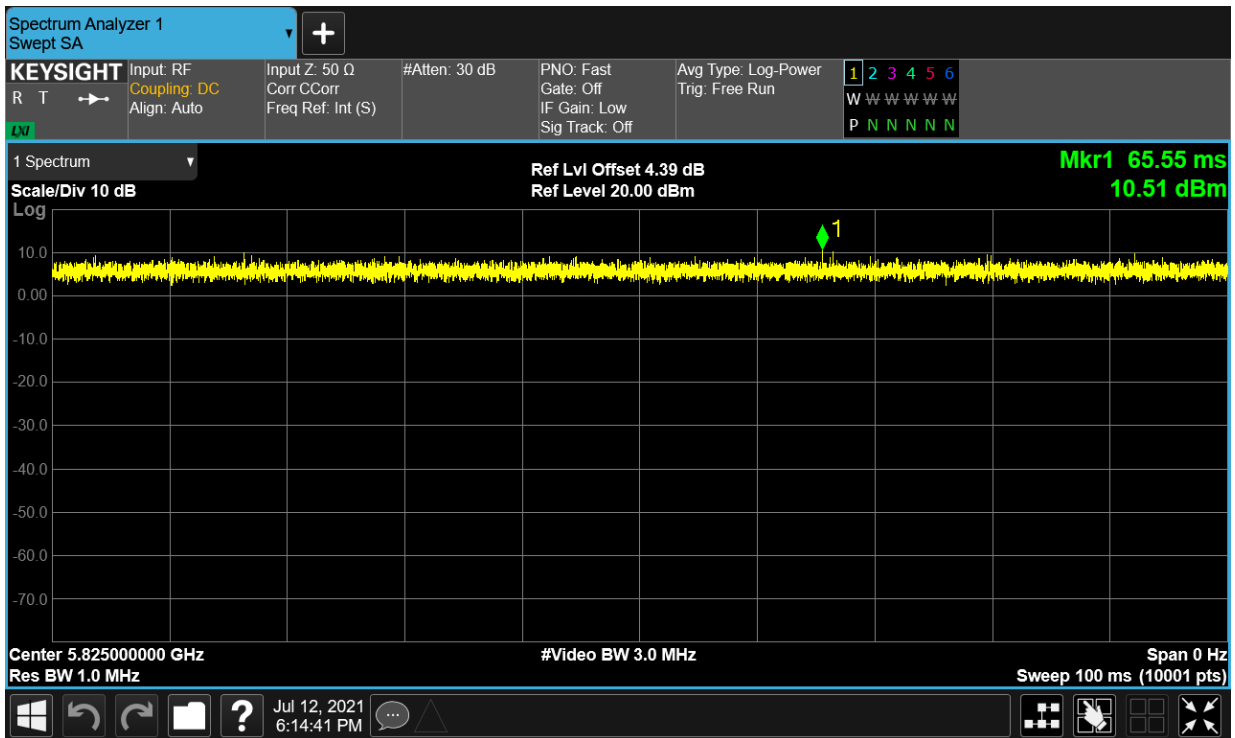
Duty Cycle NVNT ac20 5745MHz Ant1



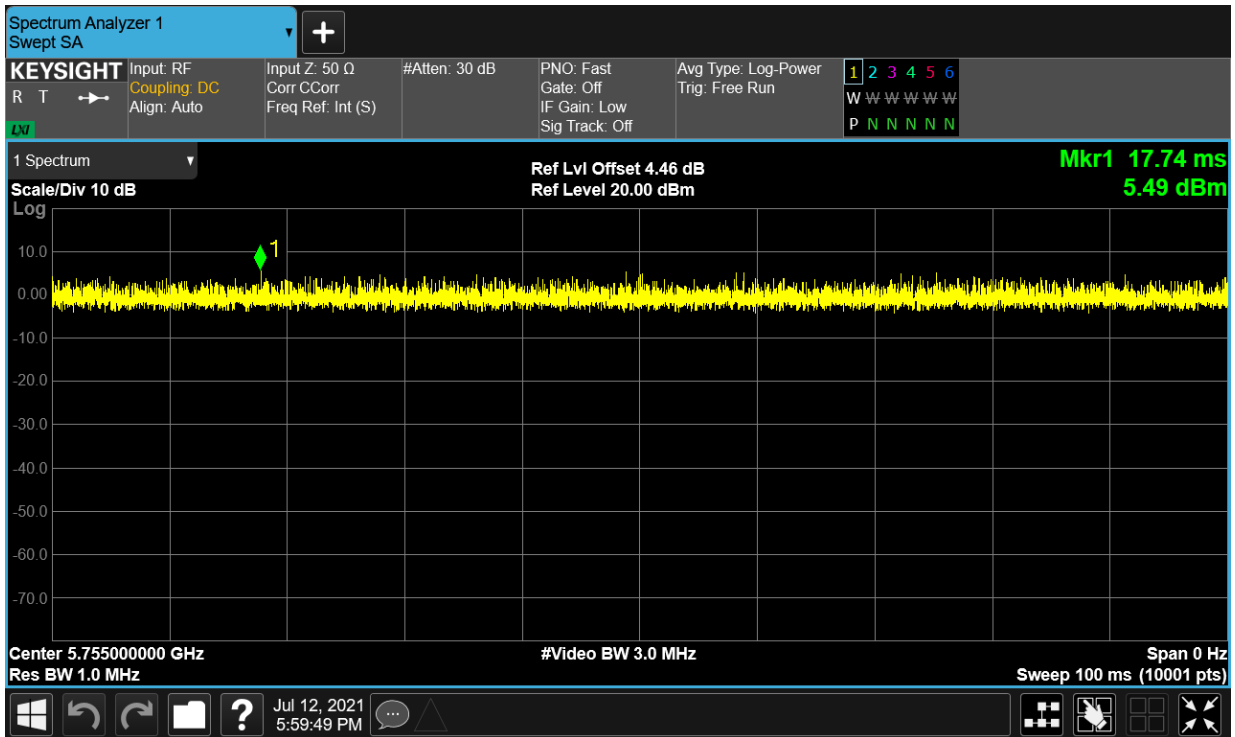
Duty Cycle NVNT ac20 5785MHz Ant1



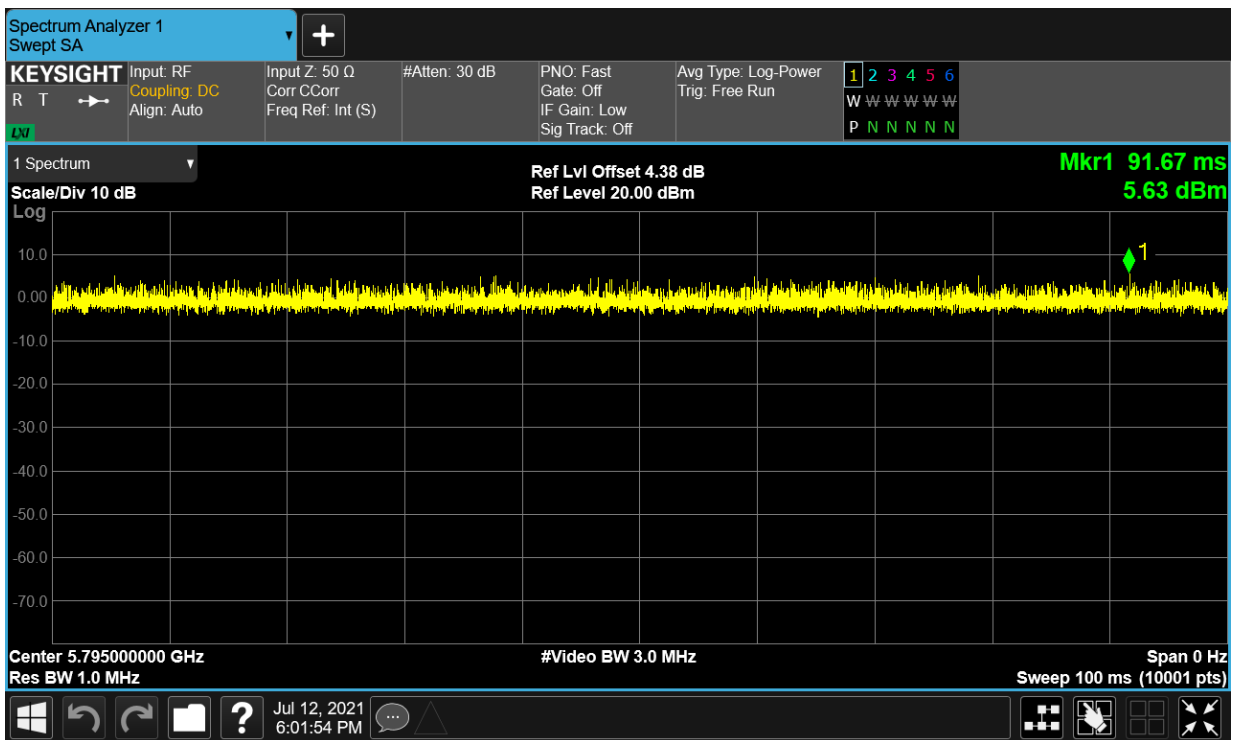
Duty Cycle NVNT ac20 5825MHz Ant1



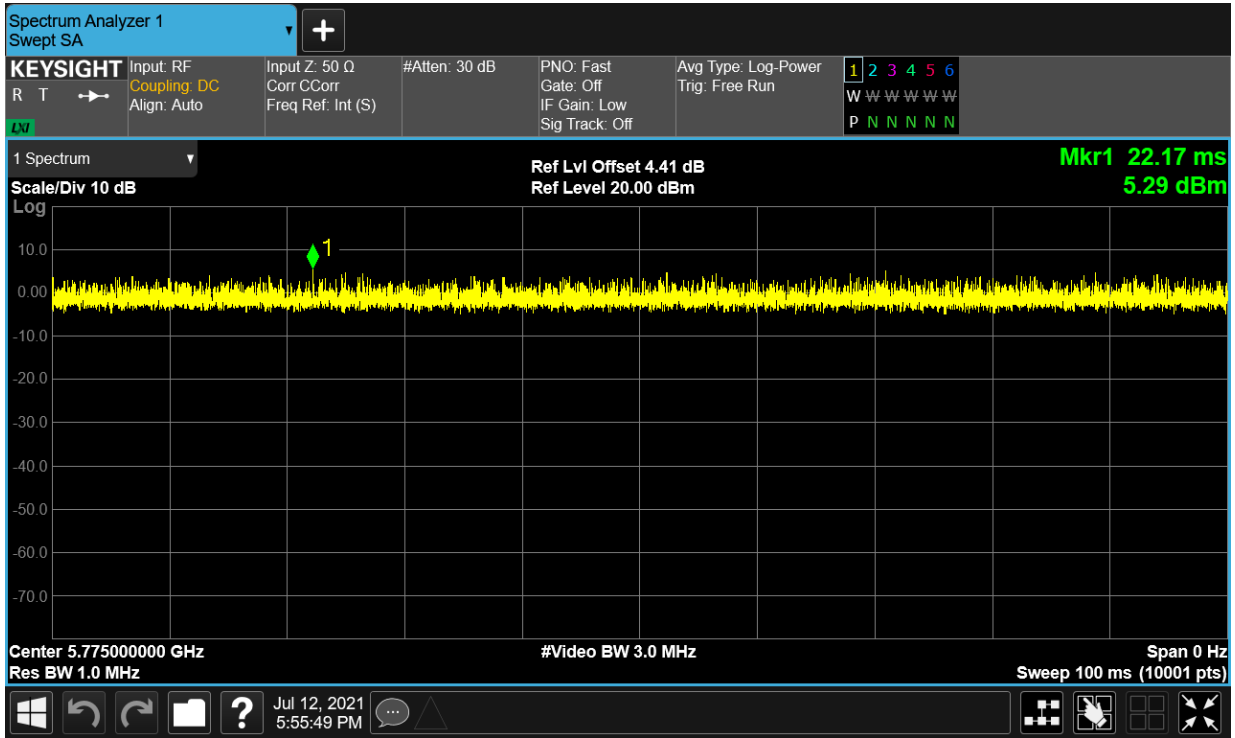
Duty Cycle NVNT ac40 5755MHz Ant1



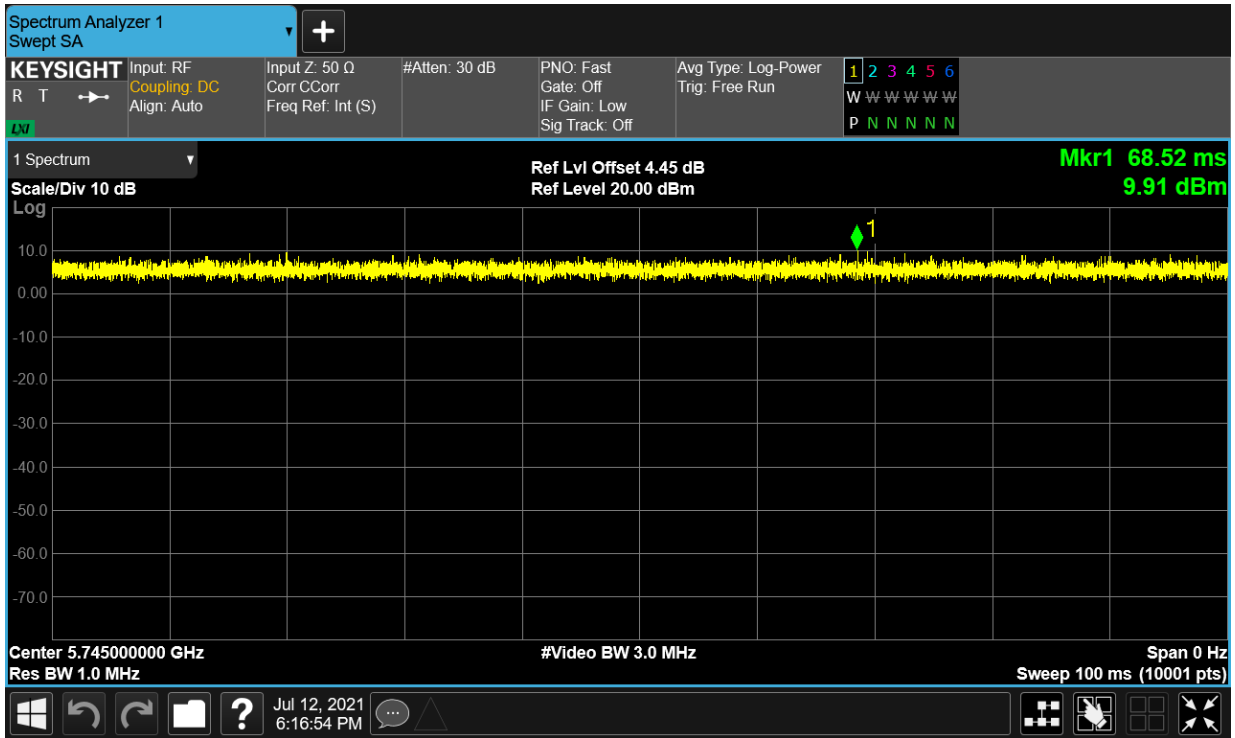
Duty Cycle NVNT ac40 5795MHz Ant1



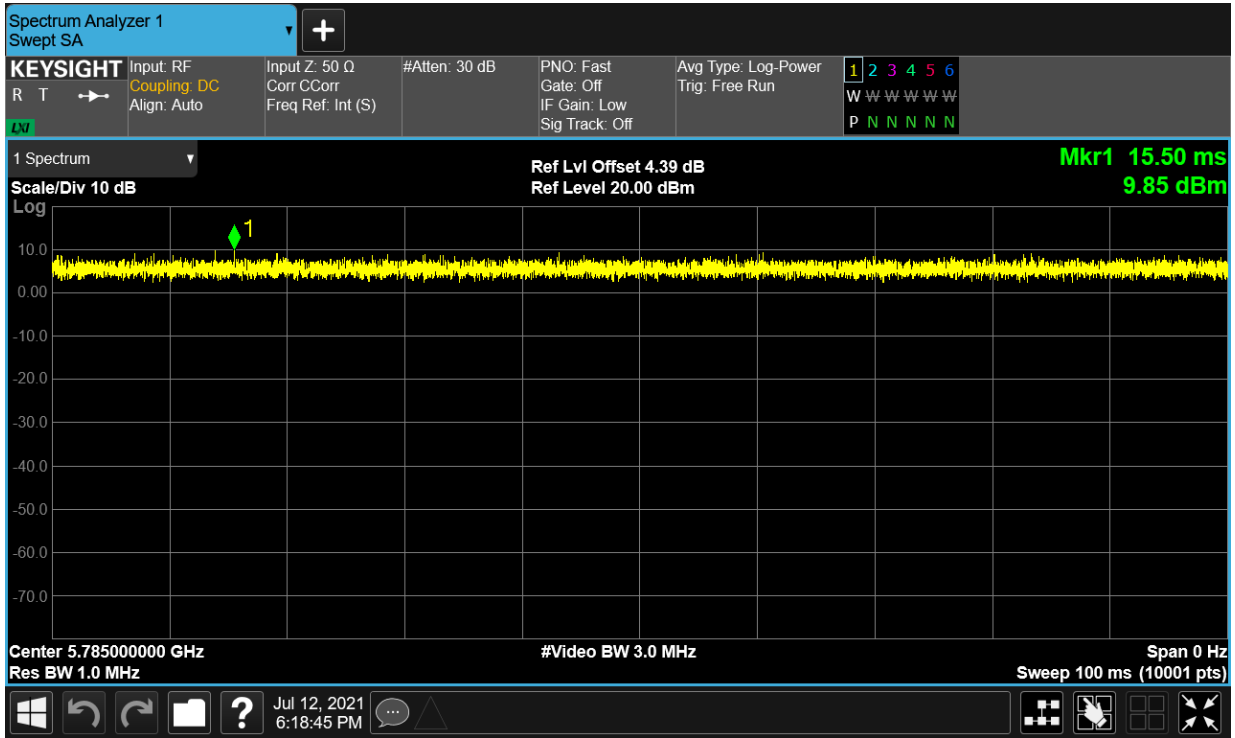
Duty Cycle NVNT ac80 5775MHz Ant1



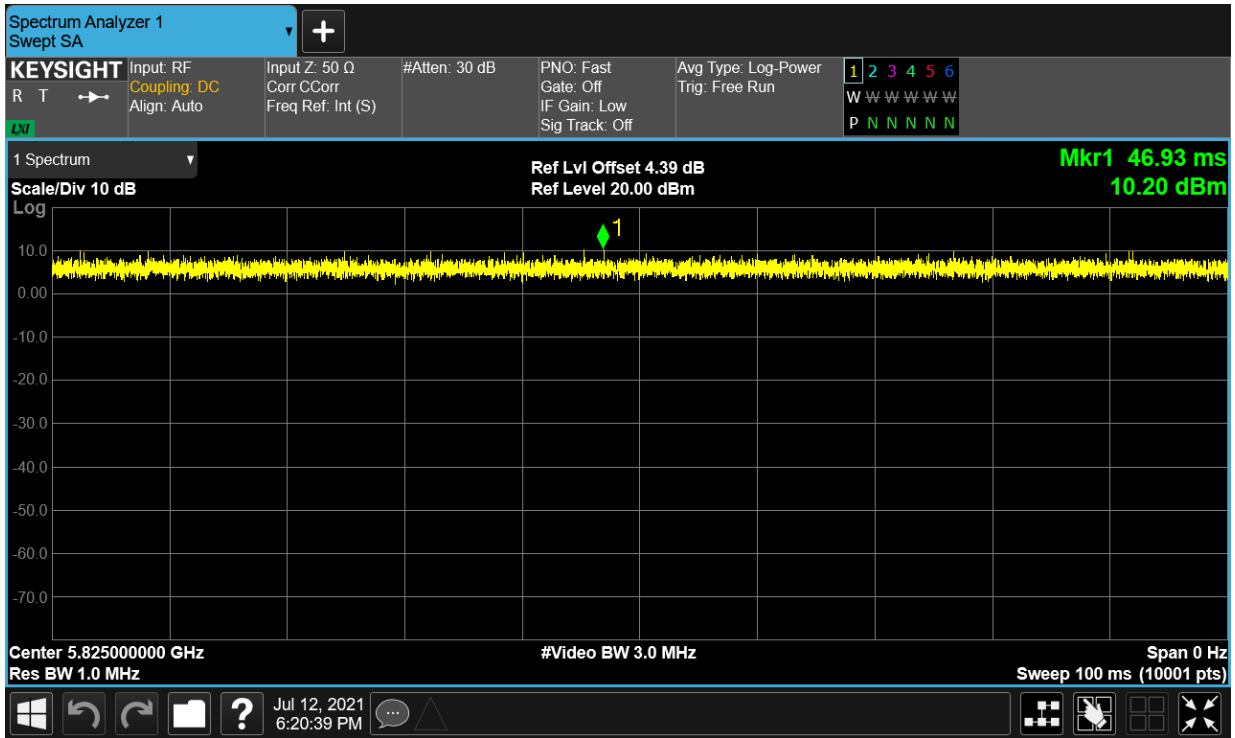
Duty Cycle NVNT n20 5745MHz Ant1



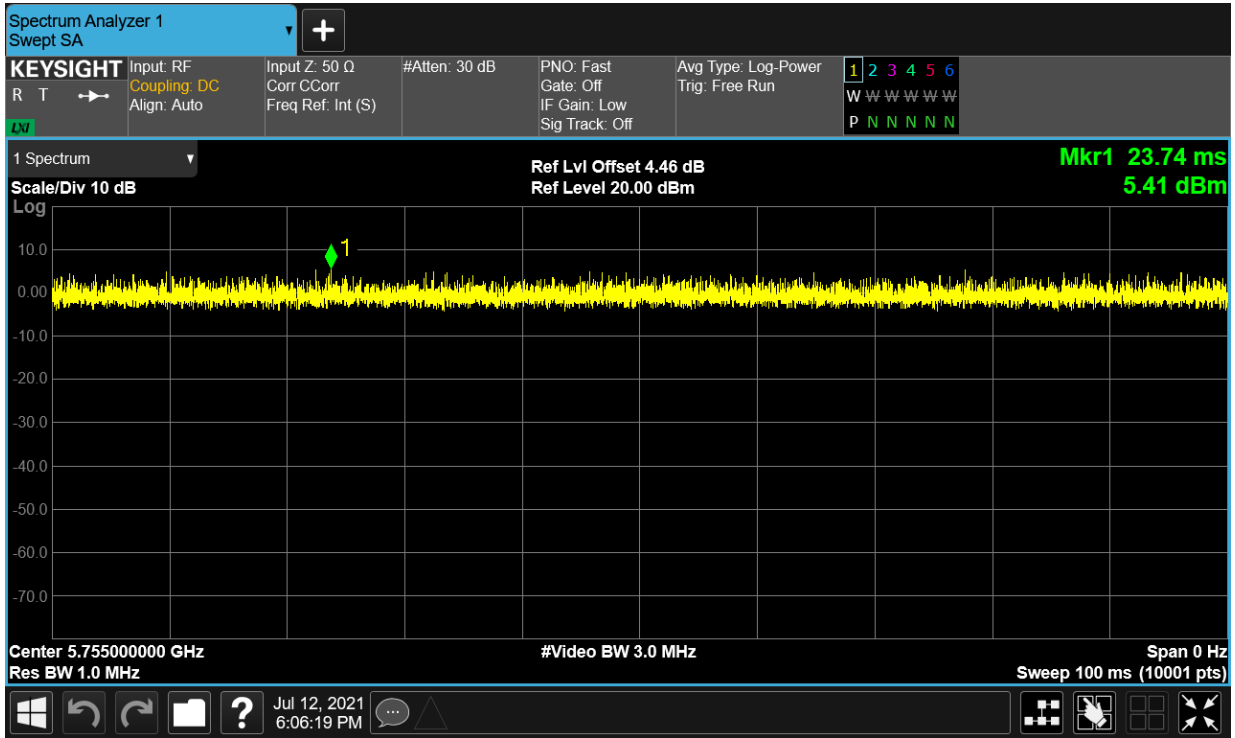
Duty Cycle NVNT n20 5785MHz Ant1



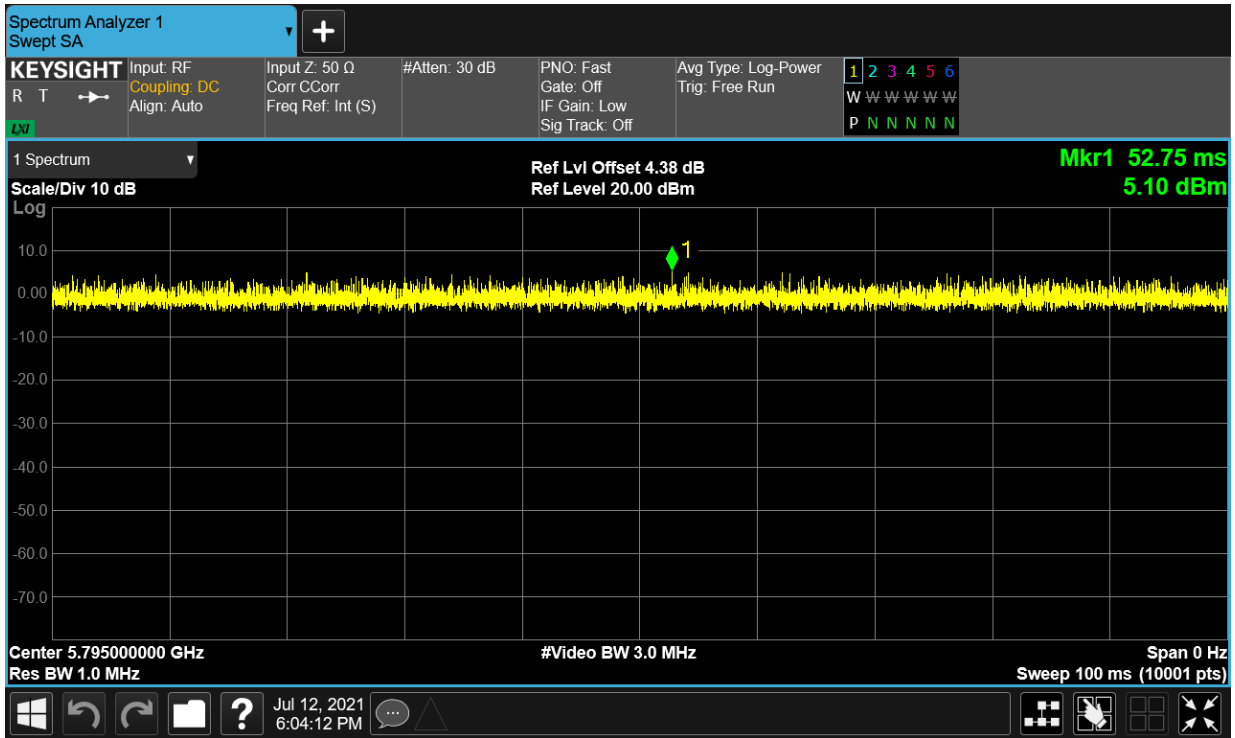
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



**Maximum Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.69	0	12.69	30	Pass

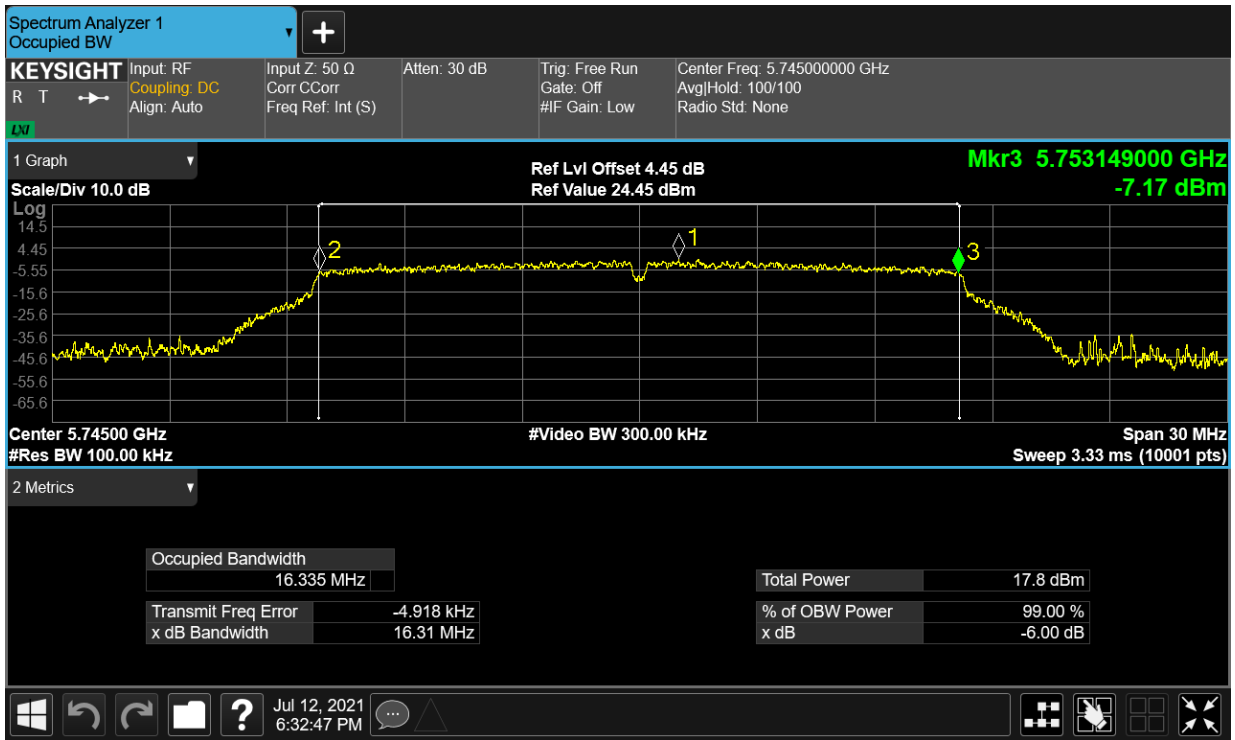


NVNT	a	5785	Ant1	12.1	0	12.1	30	Pass
NVNT	a	5825	Ant1	13.37	0	13.37	30	Pass
NVNT	ac20	5745	Ant1	12.66	0	12.66	30	Pass
NVNT	ac20	5785	Ant1	11.95	0	11.95	30	Pass
NVNT	ac20	5825	Ant1	13.4	0	13.4	30	Pass
NVNT	ac40	5755	Ant1	12.63	0	12.63	30	Pass
NVNT	ac40	5795	Ant1	12.39	0	12.39	30	Pass
NVNT	ac80	5775	Ant1	15.04	0	15.04	30	Pass
NVNT	n20	5745	Ant1	12.59	0	12.59	30	Pass
NVNT	n20	5785	Ant1	12.07	0	12.07	30	Pass
NVNT	n20	5825	Ant1	13.45	0	13.45	30	Pass
NVNT	n40	5755	Ant1	12.61	0	12.61	30	Pass
NVNT	n40	5795	Ant1	12.18	0	12.18	30	Pass

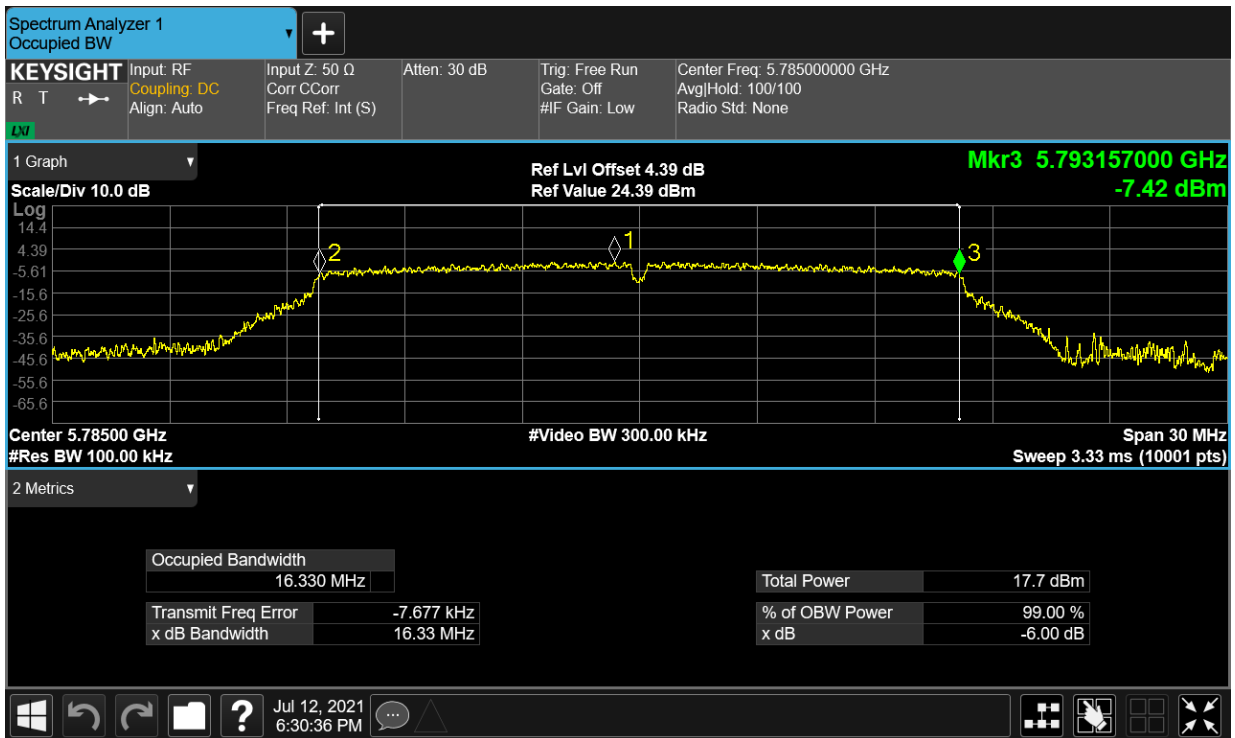
**-6dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.308	0.5	Pass
NVNT	a	5785	Ant1	16.329	0.5	Pass
NVNT	a	5825	Ant1	16.346	0.5	Pass
NVNT	ac20	5745	Ant1	17.594	0.5	Pass
NVNT	ac20	5785	Ant1	17.563	0.5	Pass
NVNT	ac20	5825	Ant1	17.597	0.5	Pass
NVNT	ac40	5755	Ant1	36.052	0.5	Pass
NVNT	ac40	5795	Ant1	35.778	0.5	Pass
NVNT	ac80	5775	Ant1	76.334	0.5	Pass
NVNT	n20	5745	Ant1	17.573	0.5	Pass
NVNT	n20	5785	Ant1	17.559	0.5	Pass
NVNT	n20	5825	Ant1	17.589	0.5	Pass
NVNT	n40	5755	Ant1	35.672	0.5	Pass
NVNT	n40	5795	Ant1	36.269	0.5	Pass

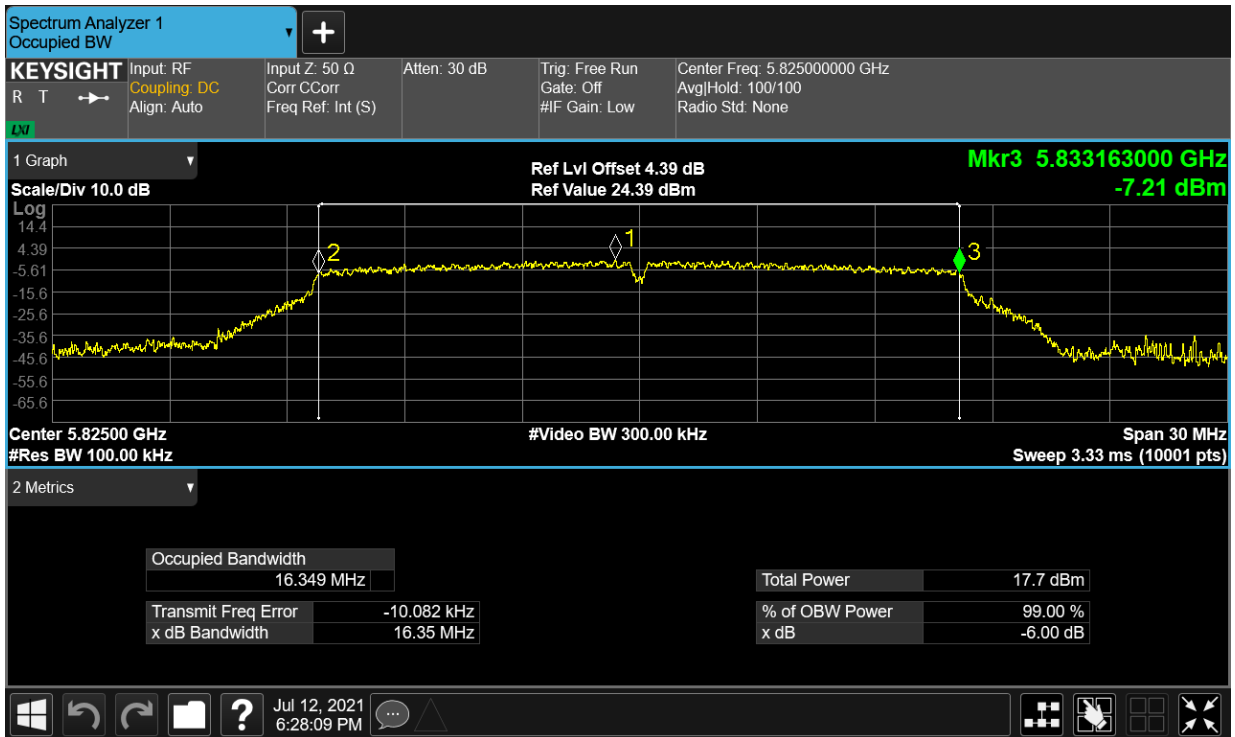
-6dB Bandwidth NVNT a 5745MHz Ant1



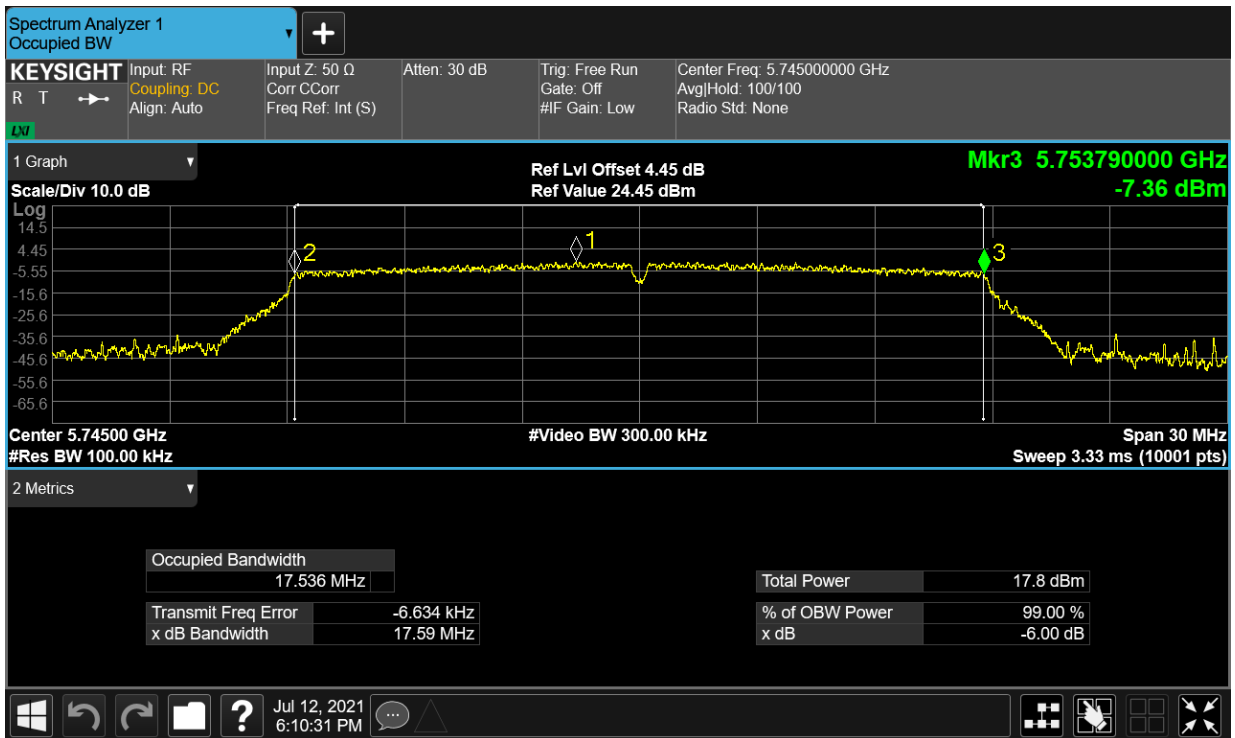
-6dB Bandwidth NVNT a 5785MHz Ant1



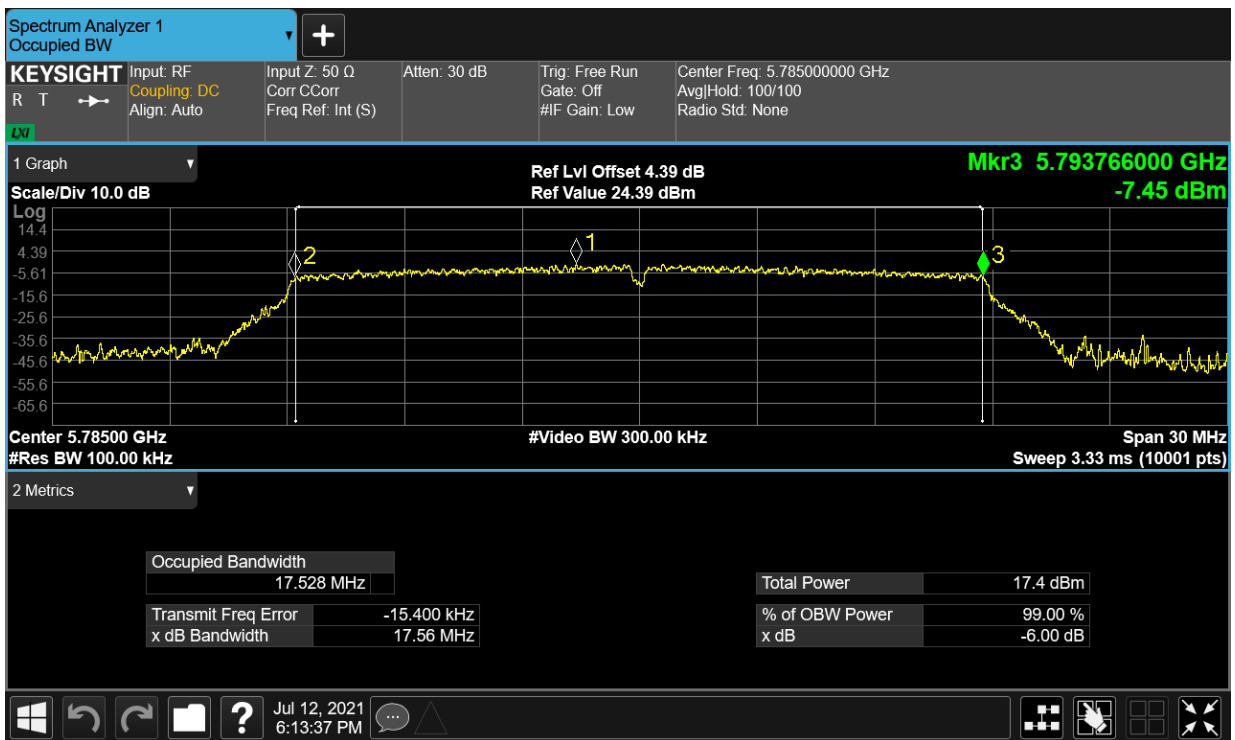
-6dB Bandwidth NVNT a 5825MHz Ant1



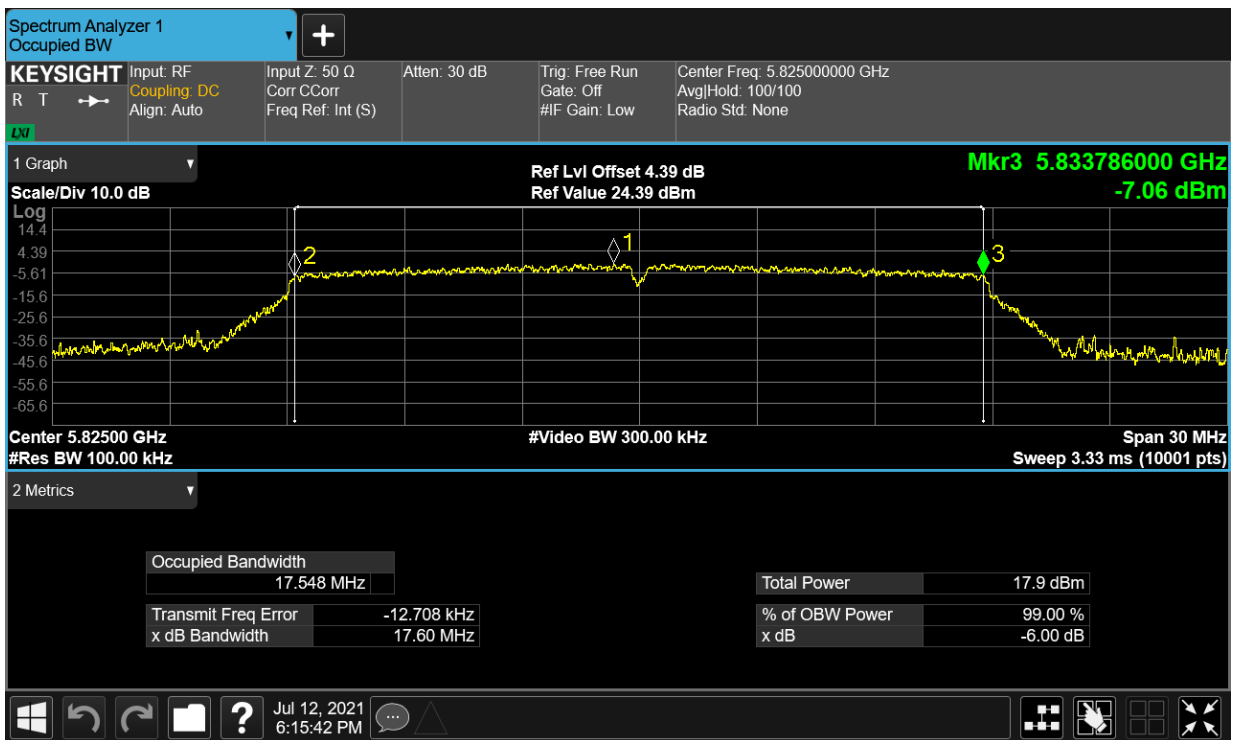
-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



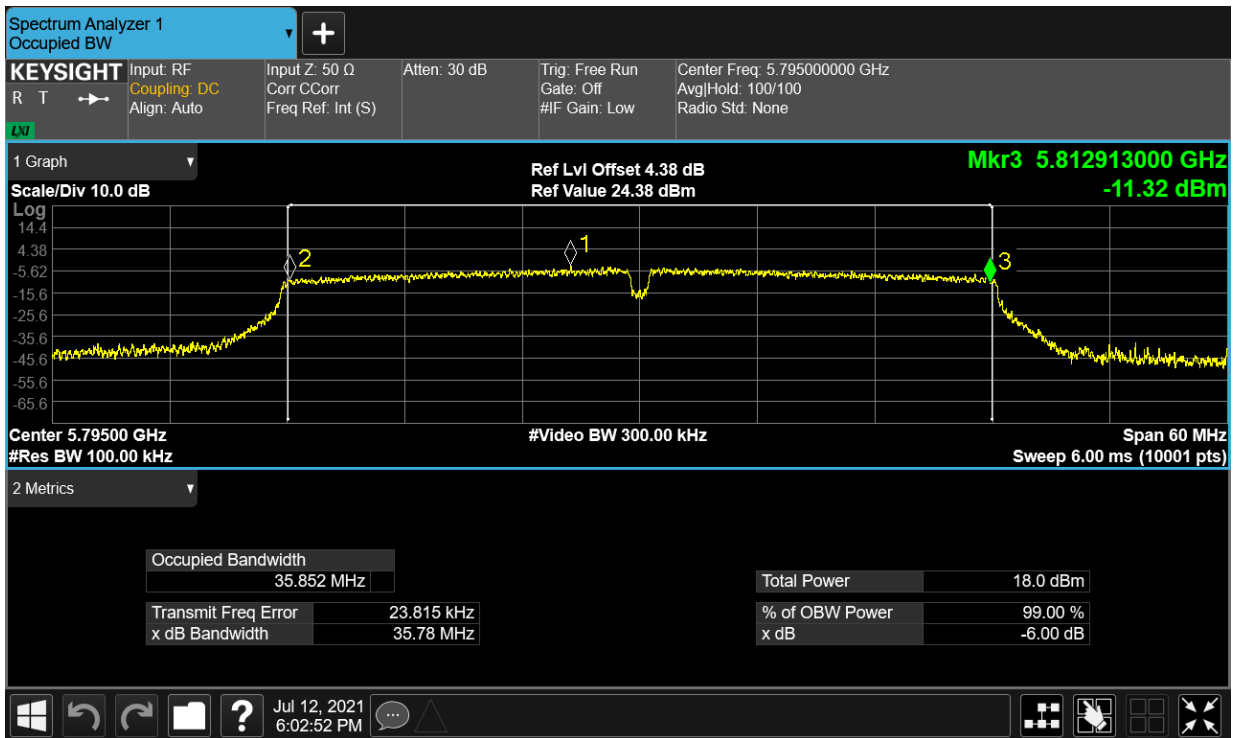
-6dB Bandwidth NVNT ac20 5825MHz Ant1



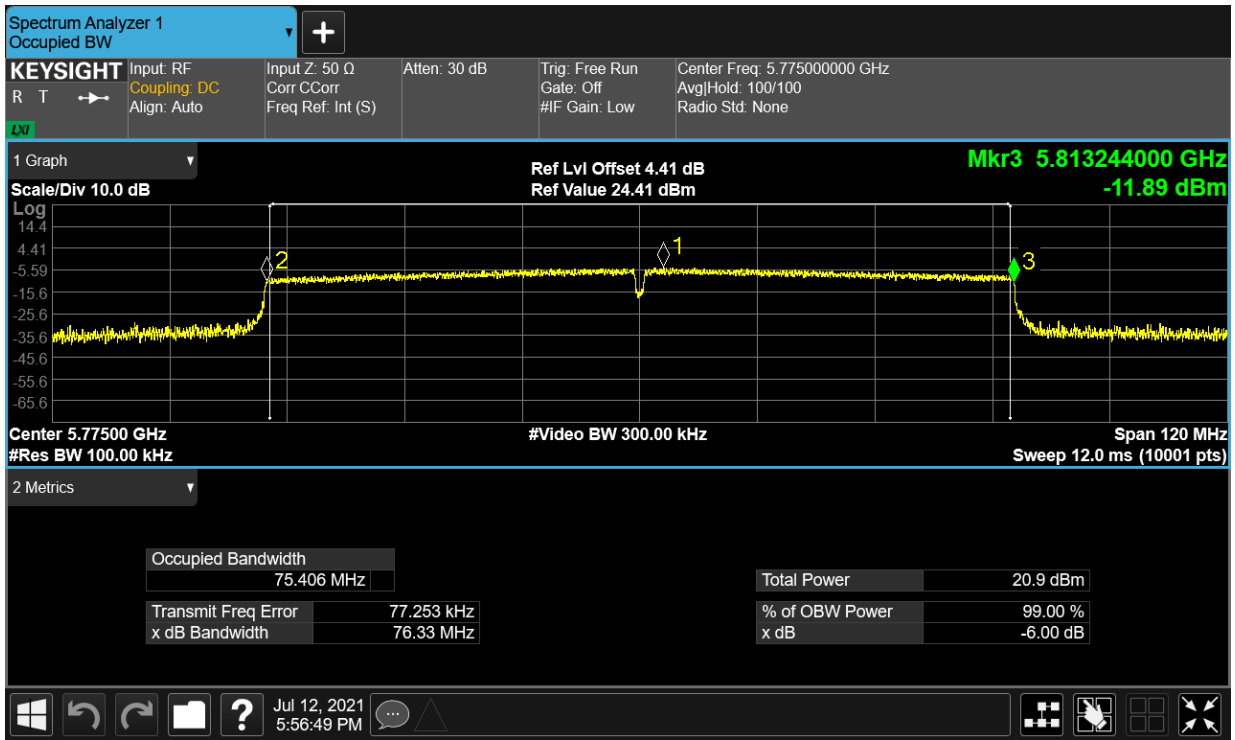
-6dB Bandwidth NVNT ac40 5755MHz Ant1



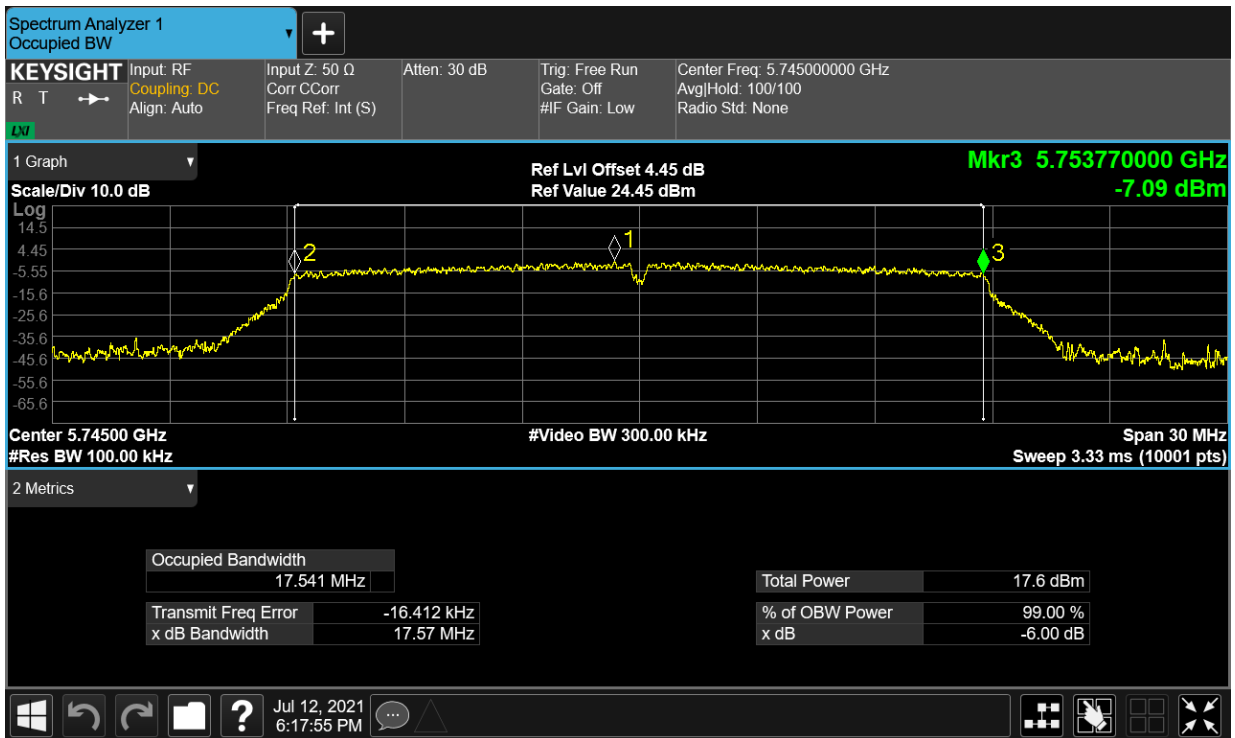
-6dB Bandwidth NVNT ac40 5795MHz Ant1



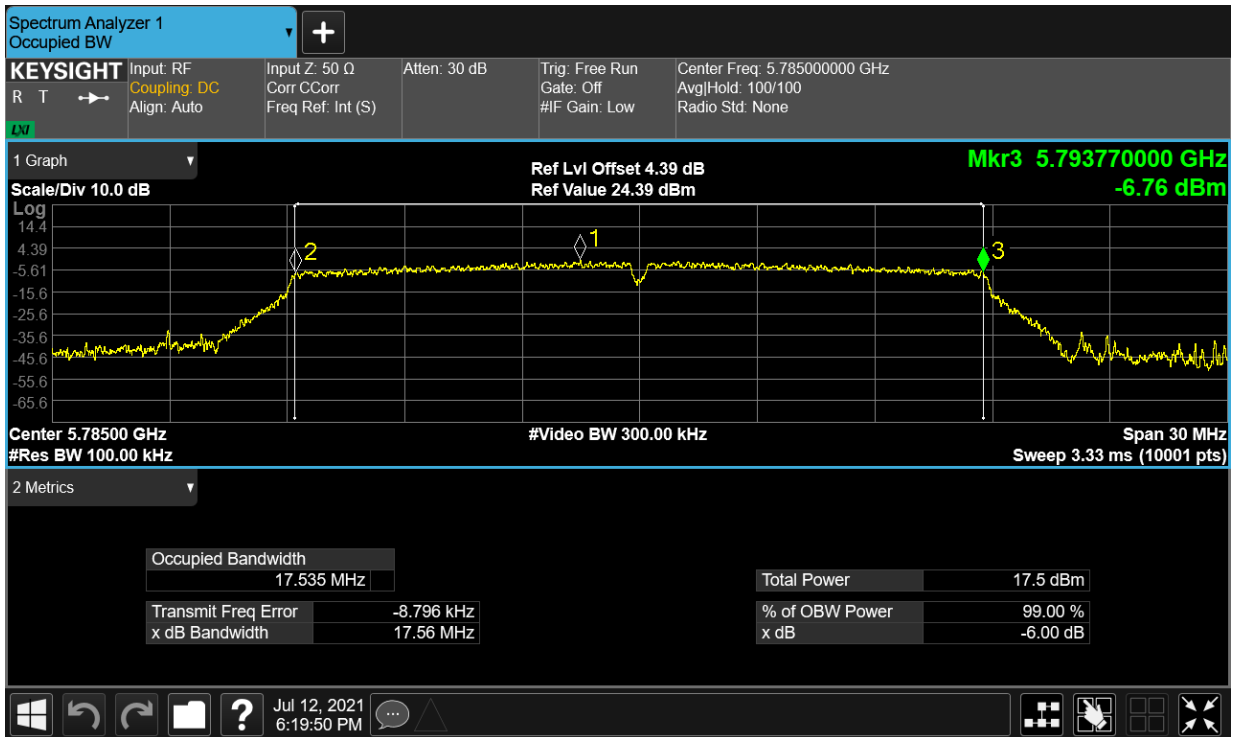
-6dB Bandwidth NVNT ac80 5775MHz Ant1



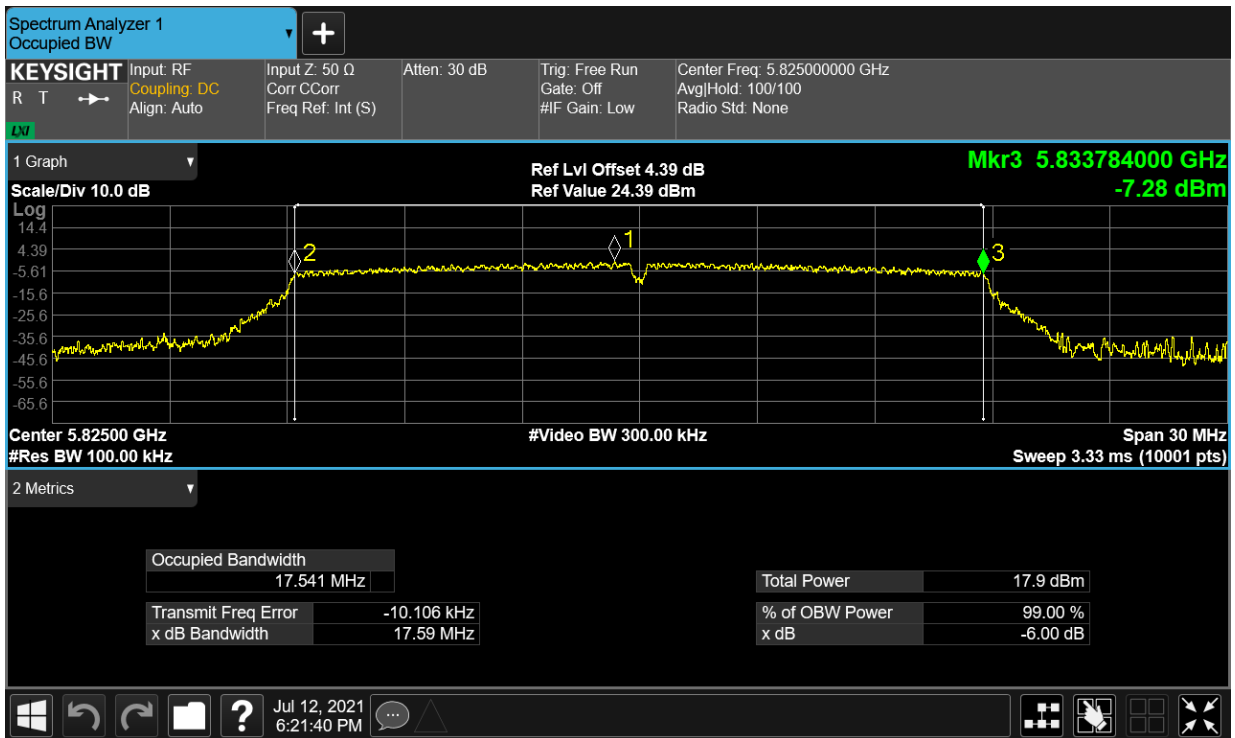
-6dB Bandwidth NVNT n20 5745MHz Ant1



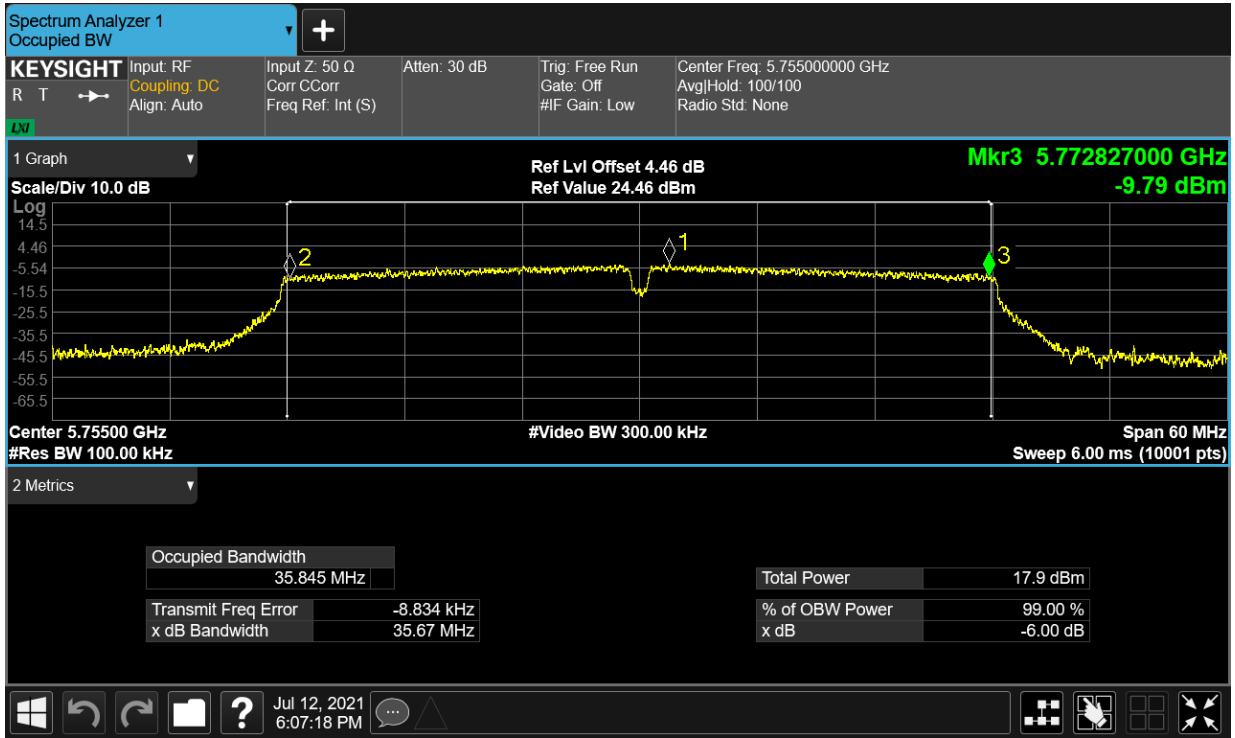
-6dB Bandwidth NVNT n20 5785MHz Ant1



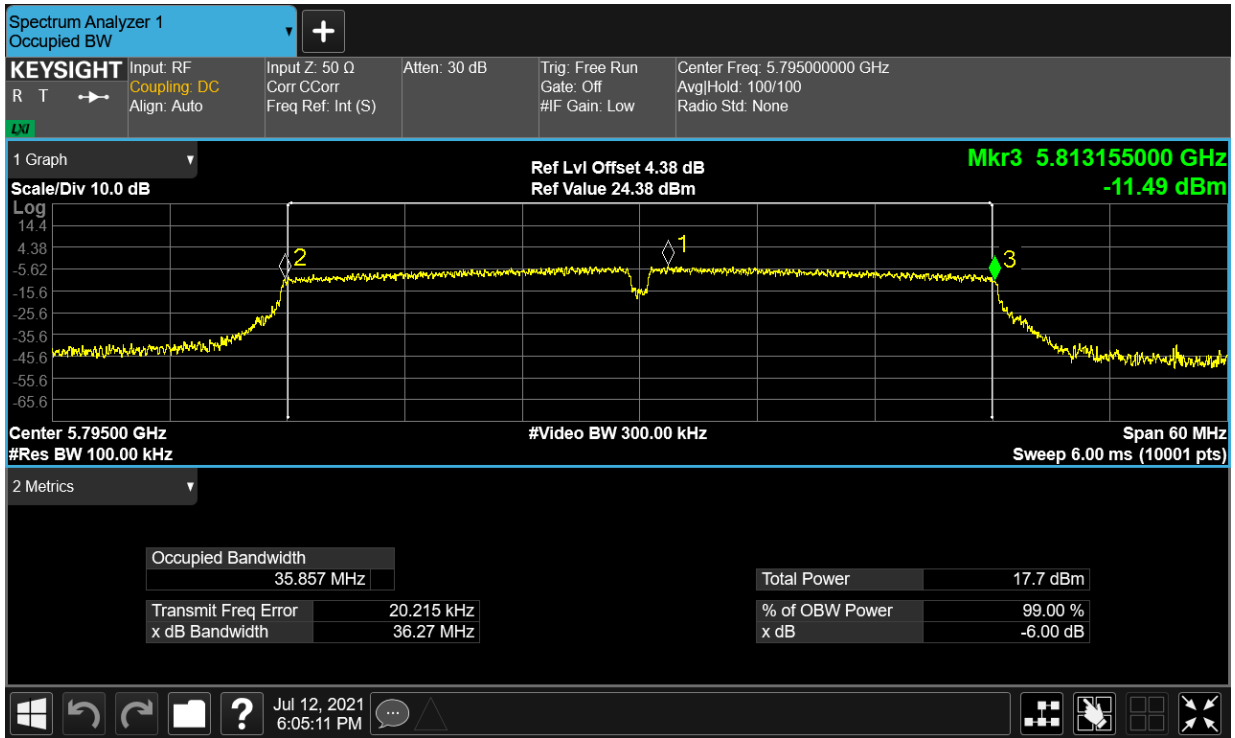
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



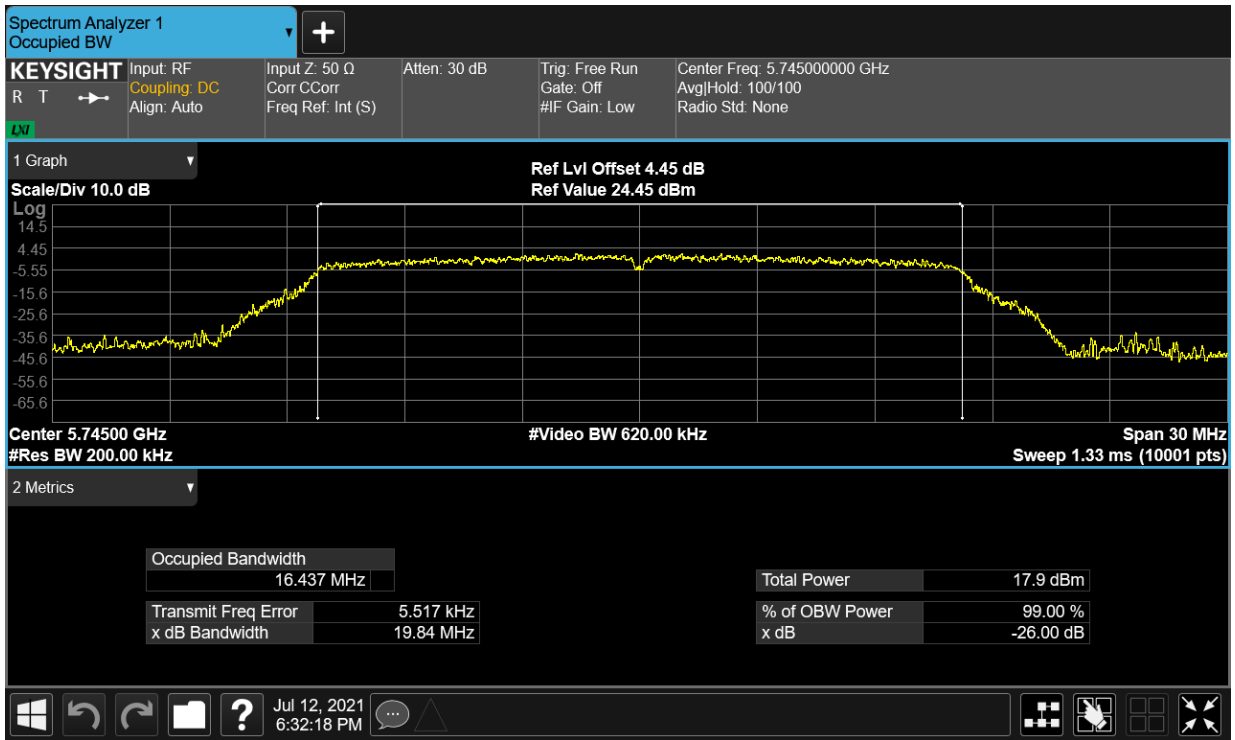
**Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.43694537
NVNT	a	5785	Ant1	16.44020491

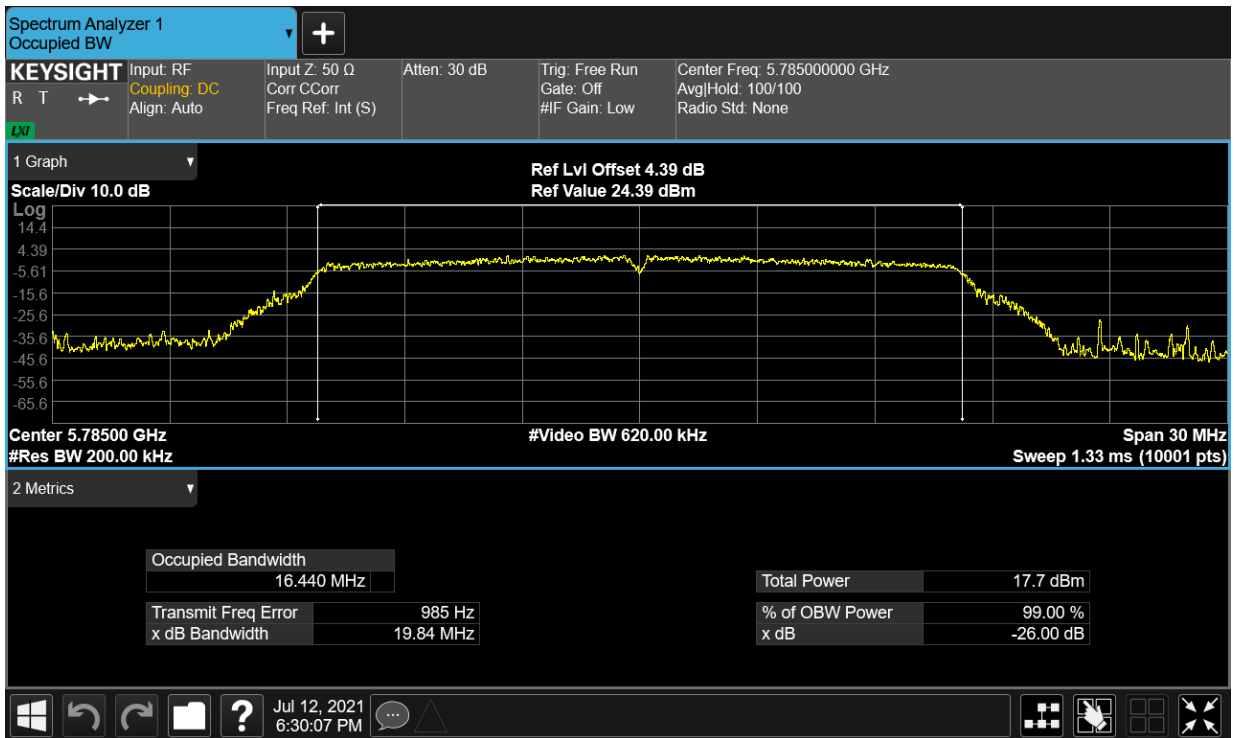


NVNT	a	5825	Ant1	16.4034228
NVNT	ac20	5745	Ant1	17.54904818
NVNT	ac20	5785	Ant1	17.56482257
NVNT	ac20	5825	Ant1	17.5486964
NVNT	ac40	5755	Ant1	35.9310537
NVNT	ac40	5795	Ant1	35.94569012
NVNT	ac80	5775	Ant1	75.37892134
NVNT	n20	5745	Ant1	17.54290919
NVNT	n20	5785	Ant1	17.55745656
NVNT	n20	5825	Ant1	17.54952478
NVNT	n40	5755	Ant1	35.93045885
NVNT	n40	5795	Ant1	35.98469072

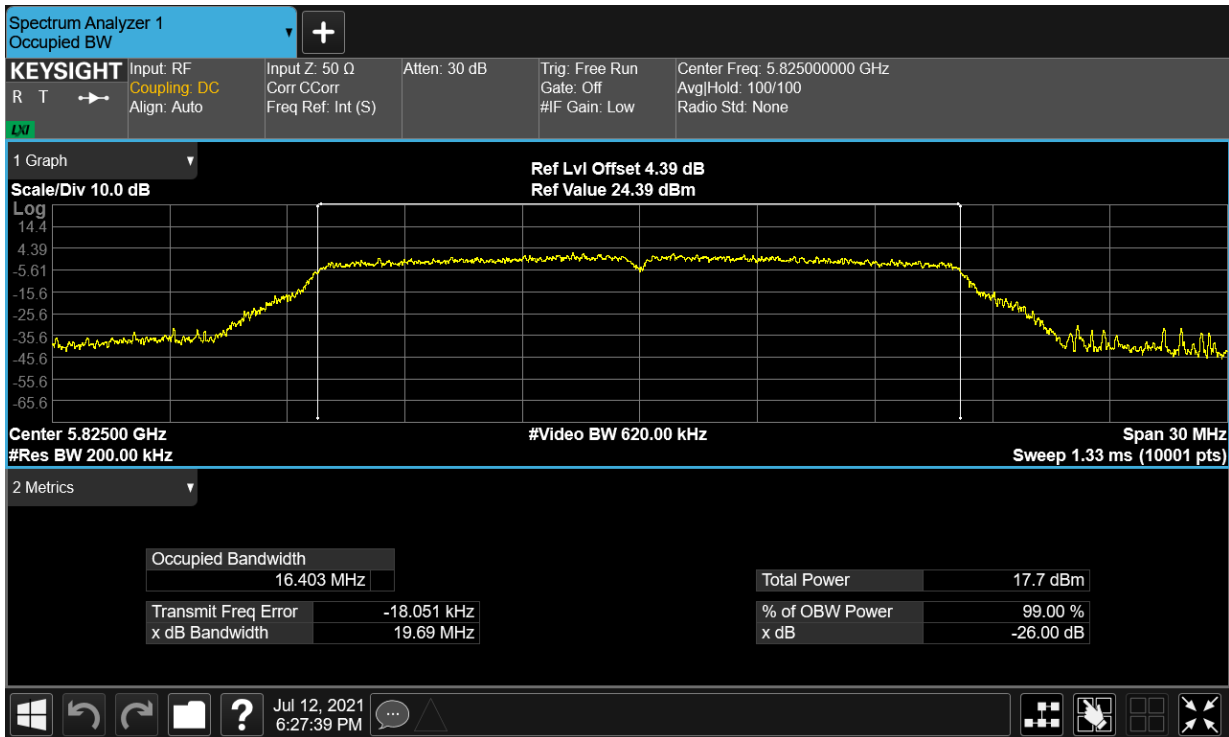
OBW NVNT a 5745MHz Ant1



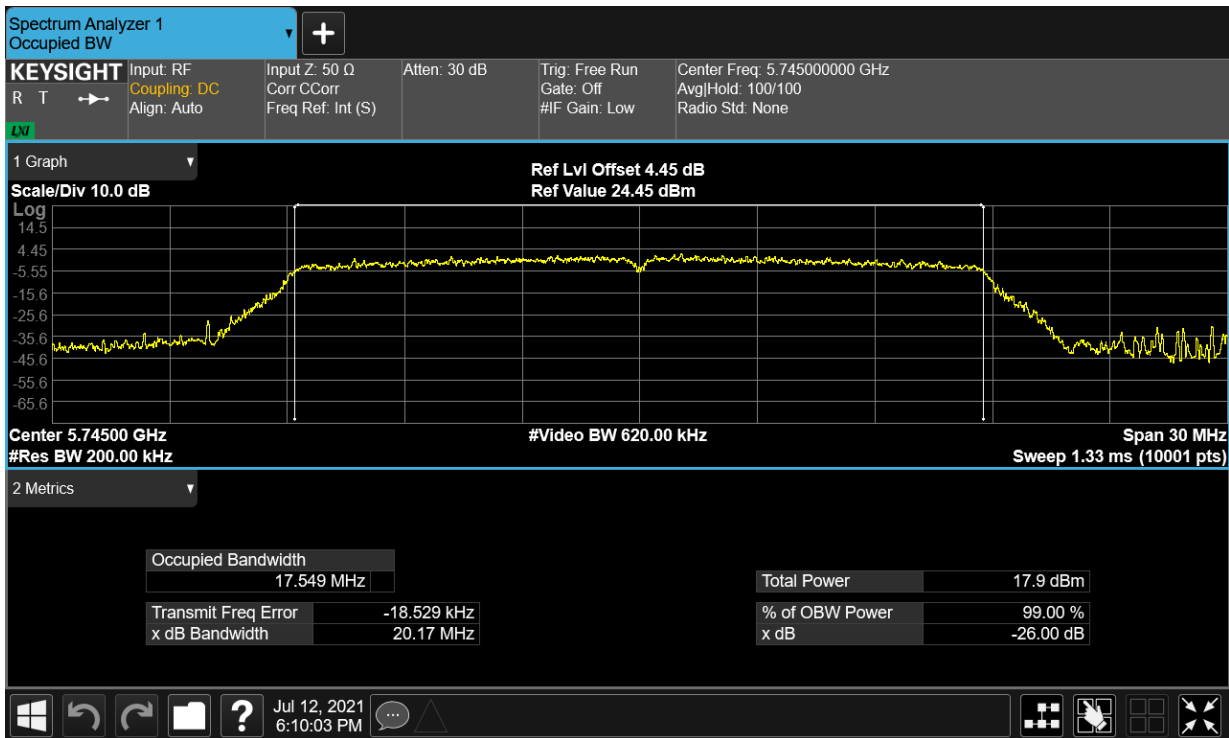
OBW NVNT a 5785MHz Ant1



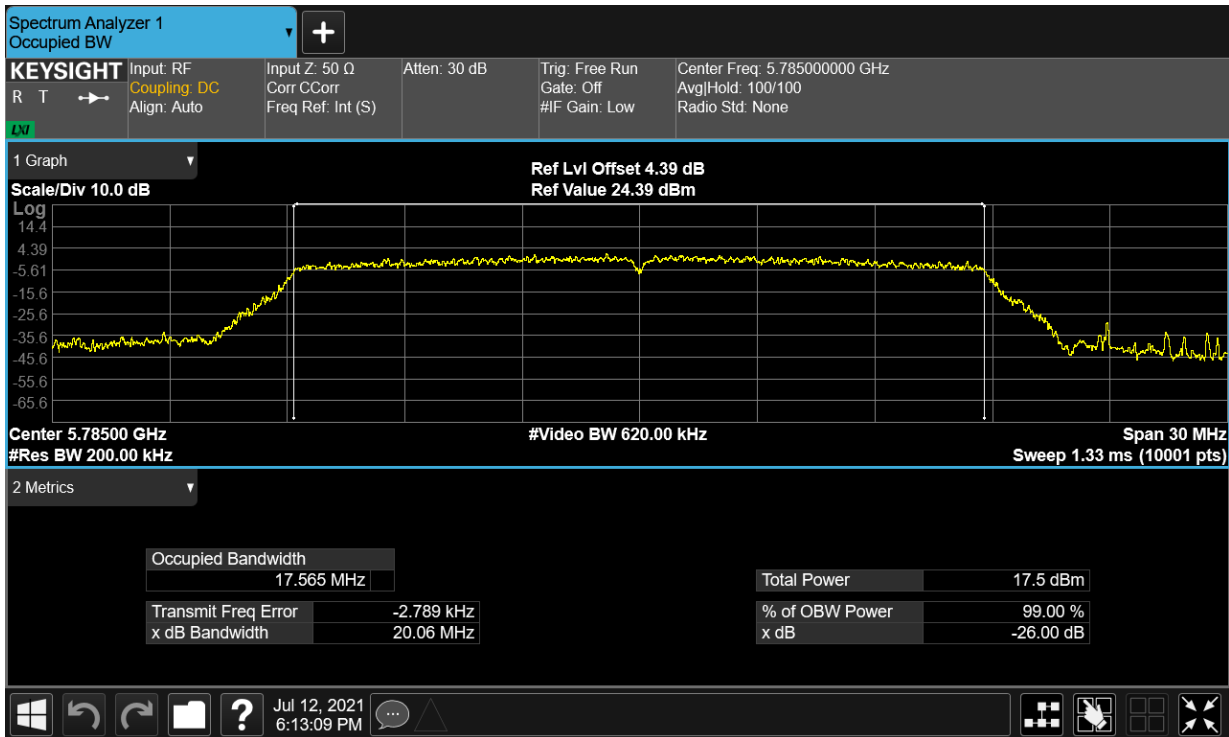
OBW NVNT a 5825MHz Ant1



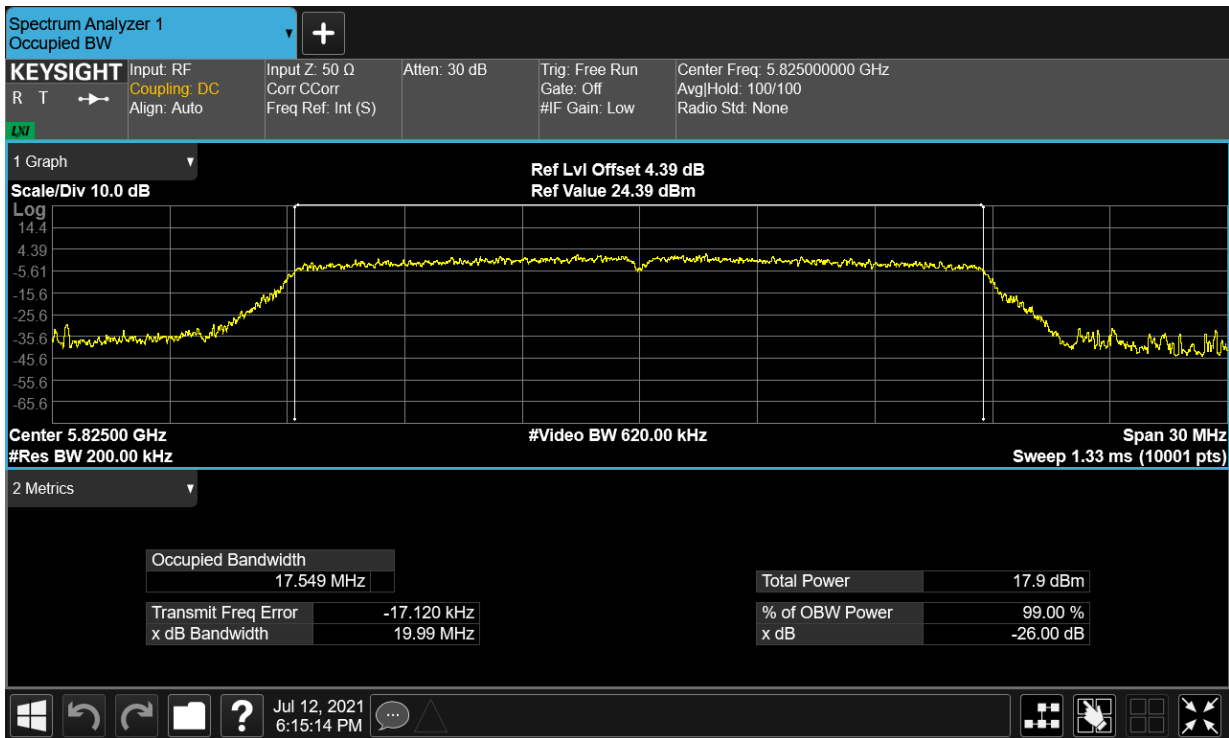
OBW NVNT ac20 5745MHz Ant1



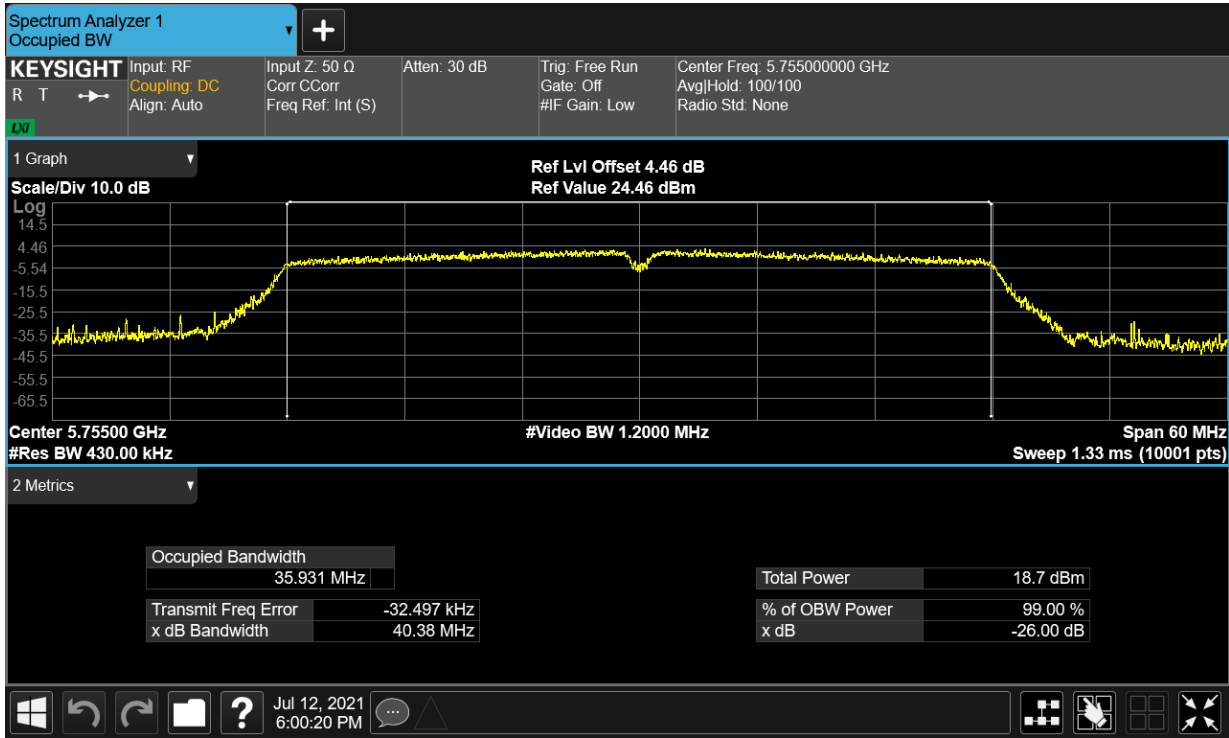
OBW NVNT ac20 5785MHz Ant1



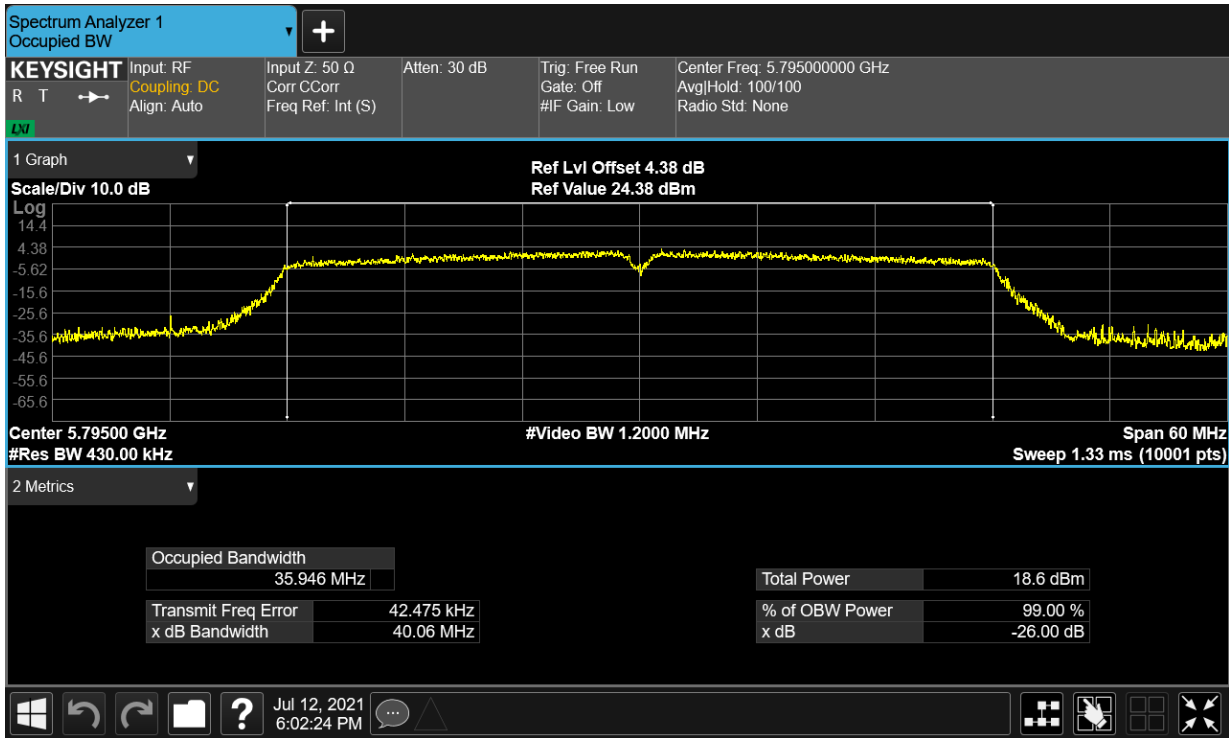
OBW NVNT ac20 5825MHz Ant1



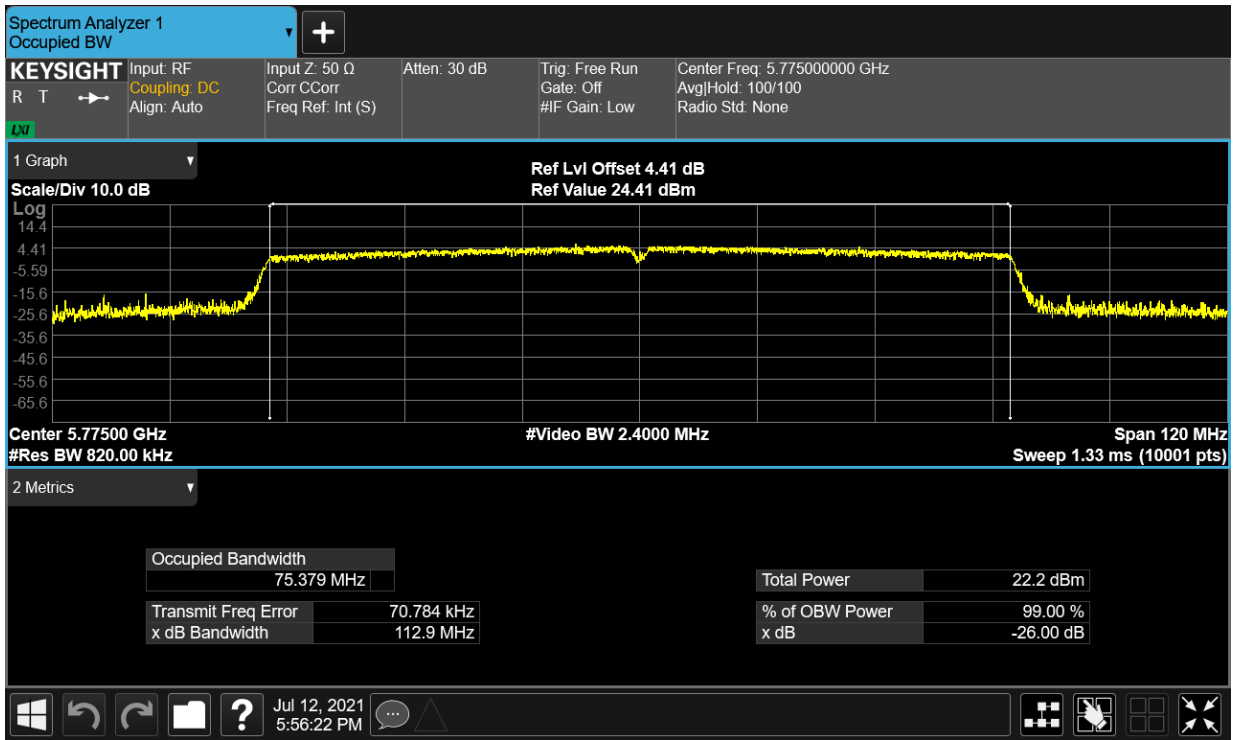
OBW NVNT ac40 5755MHz Ant1



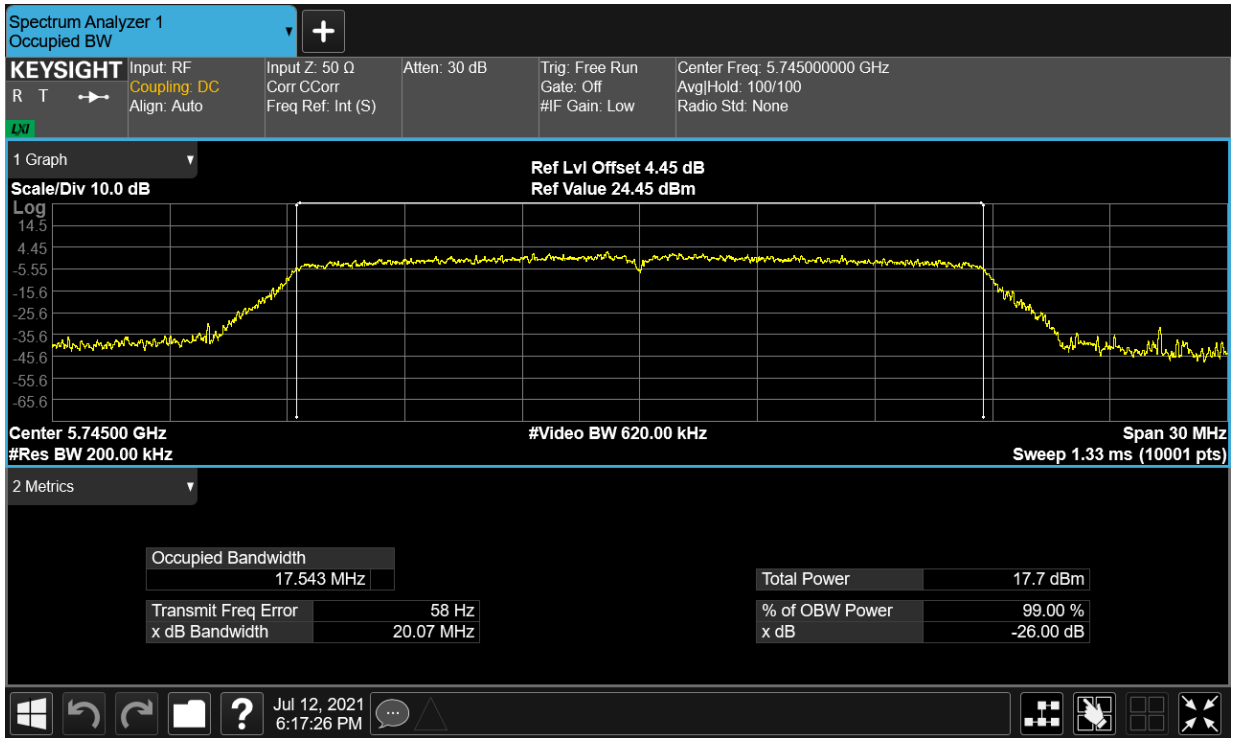
OBW NVNT ac40 5795MHz Ant1



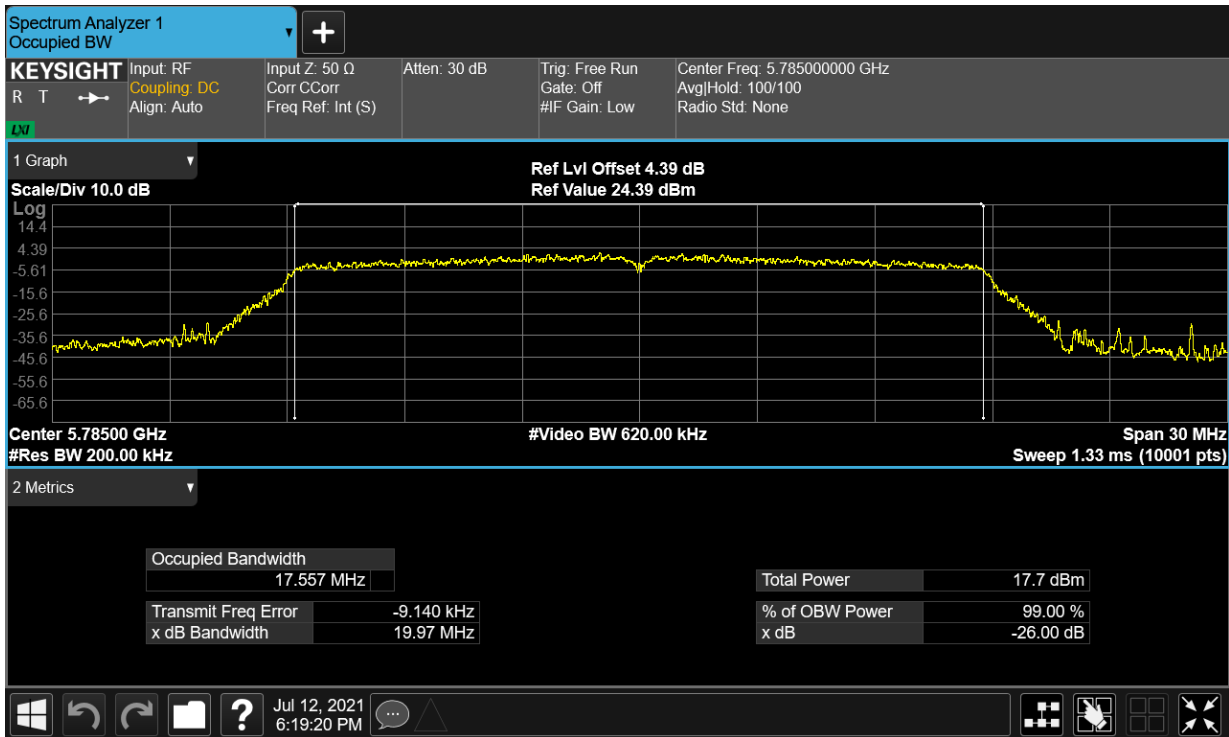
OBW NVNT ac80 5775MHz Ant1



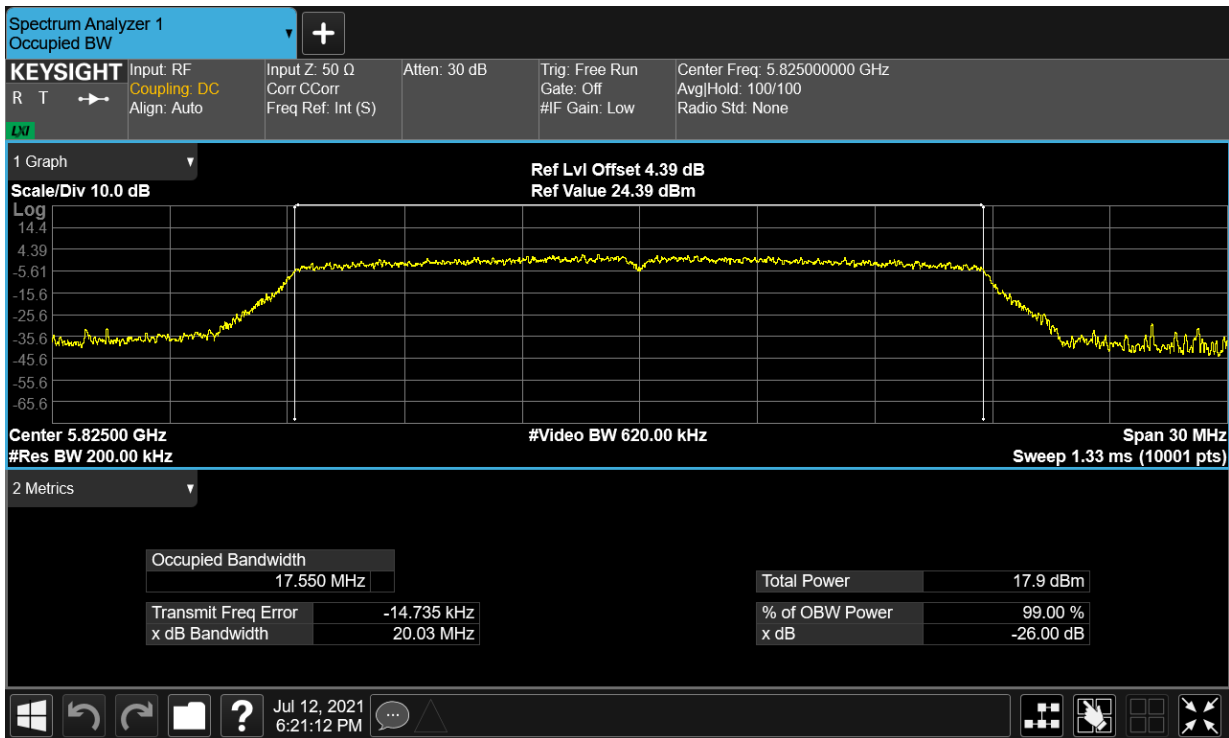
OBW NVNT n20 5745MHz Ant1



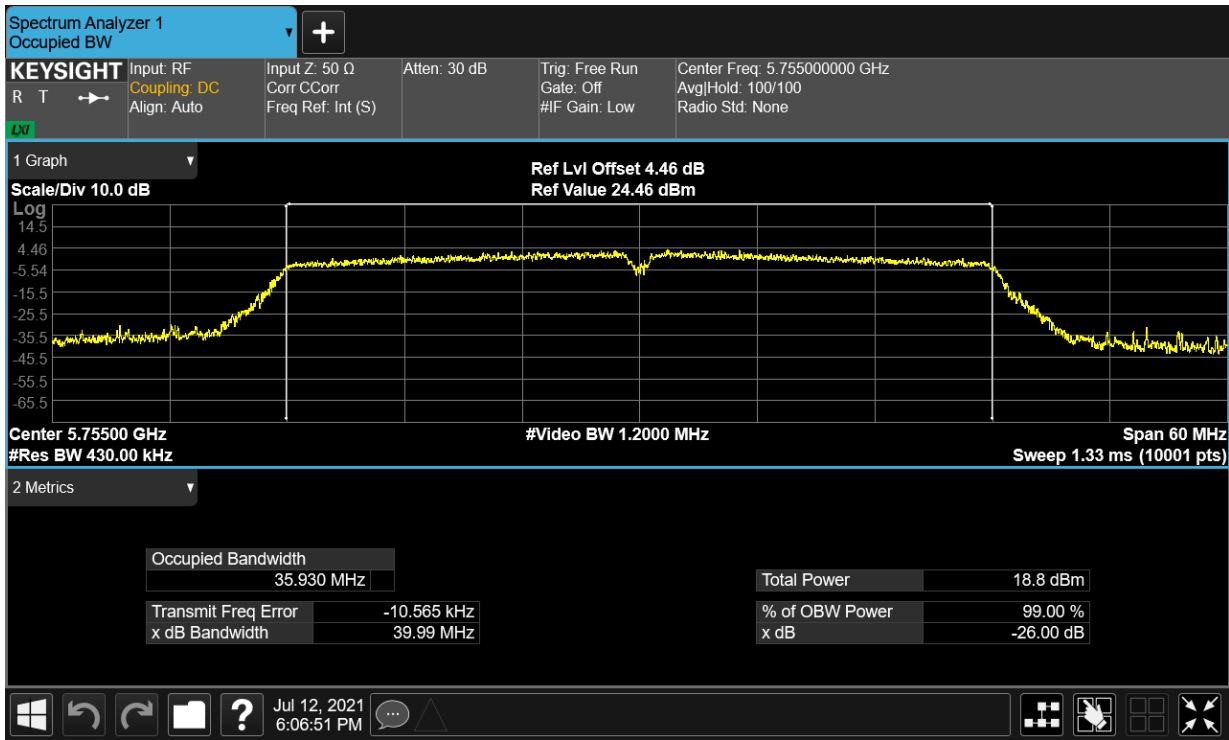
OBW NVNT n20 5785MHz Ant1



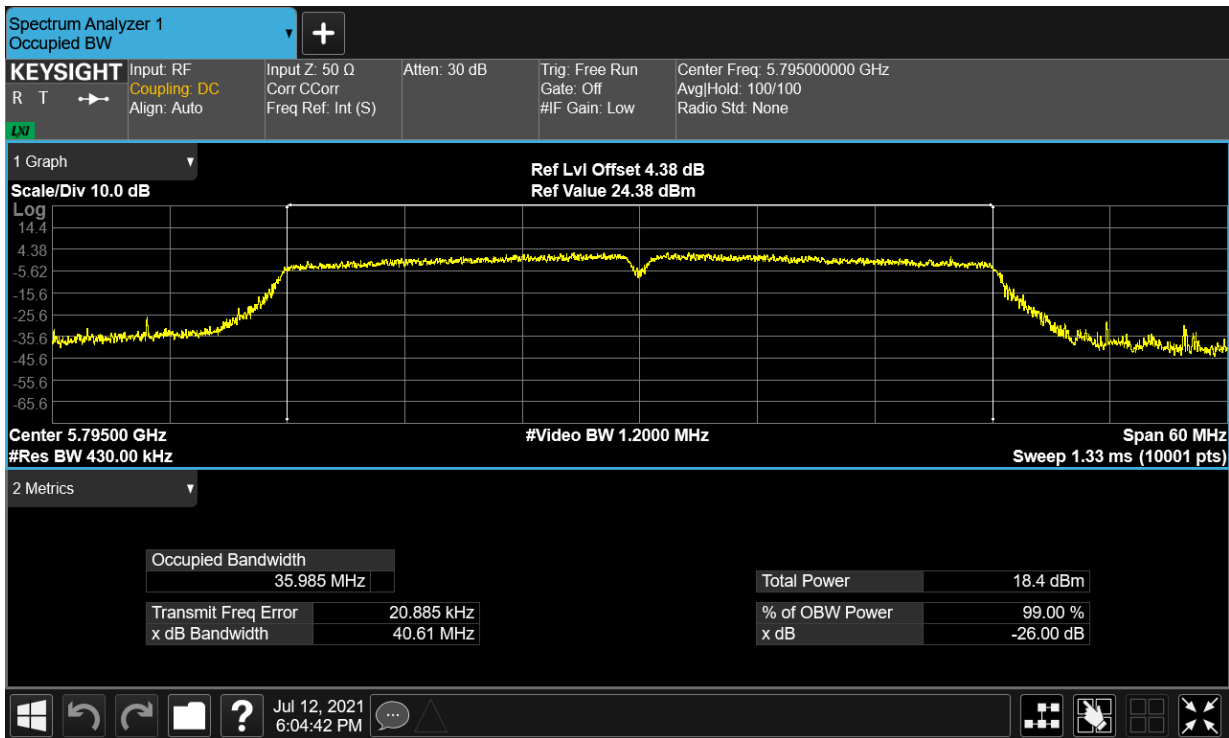
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



**Maximum Power Spectral Density Level**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Max PSD (dBm)	correction factor	Total Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-0.11	0.269	0.159	30	Pass

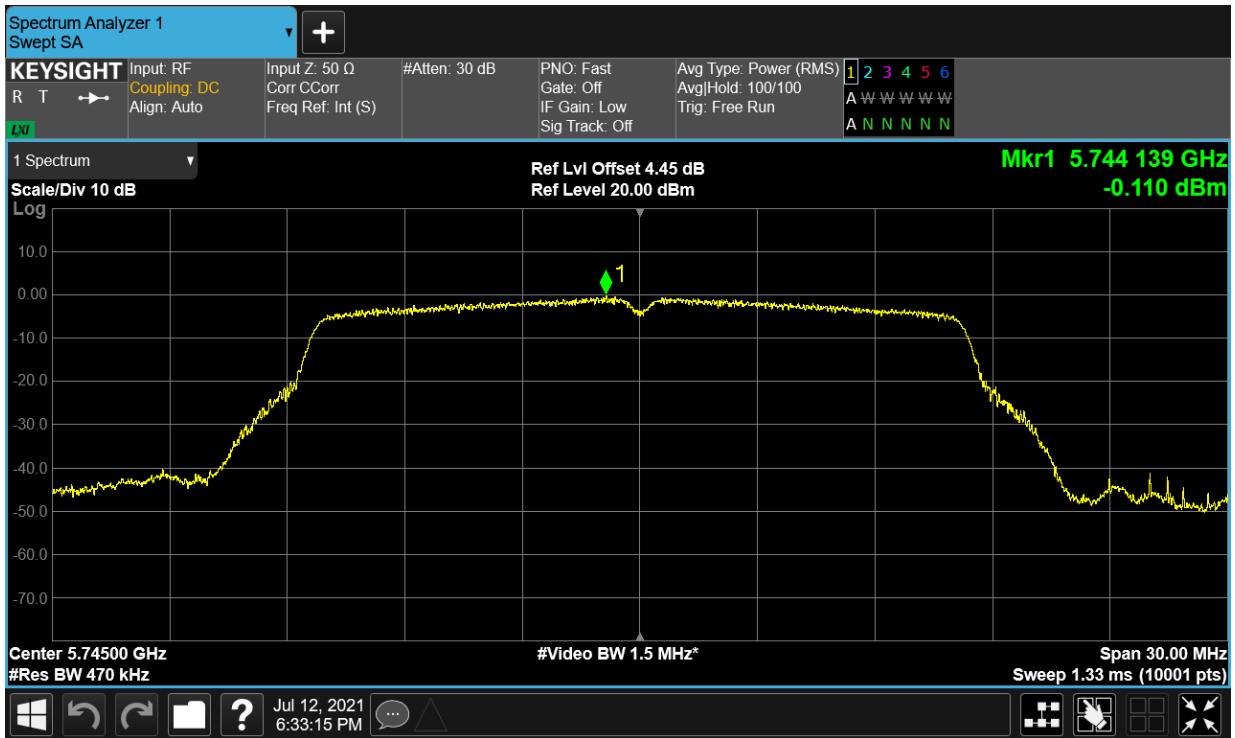


NVNT	a	5785	Ant1	-0.563	0.269	-0.294	30	Pass
NVNT	a	5825	Ant1	-0.693	0.269	-0.424	30	Pass
NVNT	ac20	5745	Ant1	-0.785	0.269	-0.516	30	Pass
NVNT	ac20	5785	Ant1	-0.628	0.269	-0.359	30	Pass
NVNT	ac20	5825	Ant1	-0.558	0.269	-0.289	30	Pass
NVNT	ac40	5755	Ant1	-2.935	0.269	-2.666	30	Pass
NVNT	ac40	5795	Ant1	-2.6	0.269	-2.331	30	Pass
NVNT	ac80	5775	Ant1	-3.414	0.269	-3.145	30	Pass
NVNT	n20	5745	Ant1	-0.598	0.269	-0.329	30	Pass
NVNT	n20	5785	Ant1	-0.822	0.269	-0.553	30	Pass
NVNT	n20	5825	Ant1	-0.574	0.269	-0.305	30	Pass
NVNT	n40	5755	Ant1	-2.828	0.269	-2.559	30	Pass
NVNT	n40	5795	Ant1	-3.22	0.269	-2.951	30	Pass

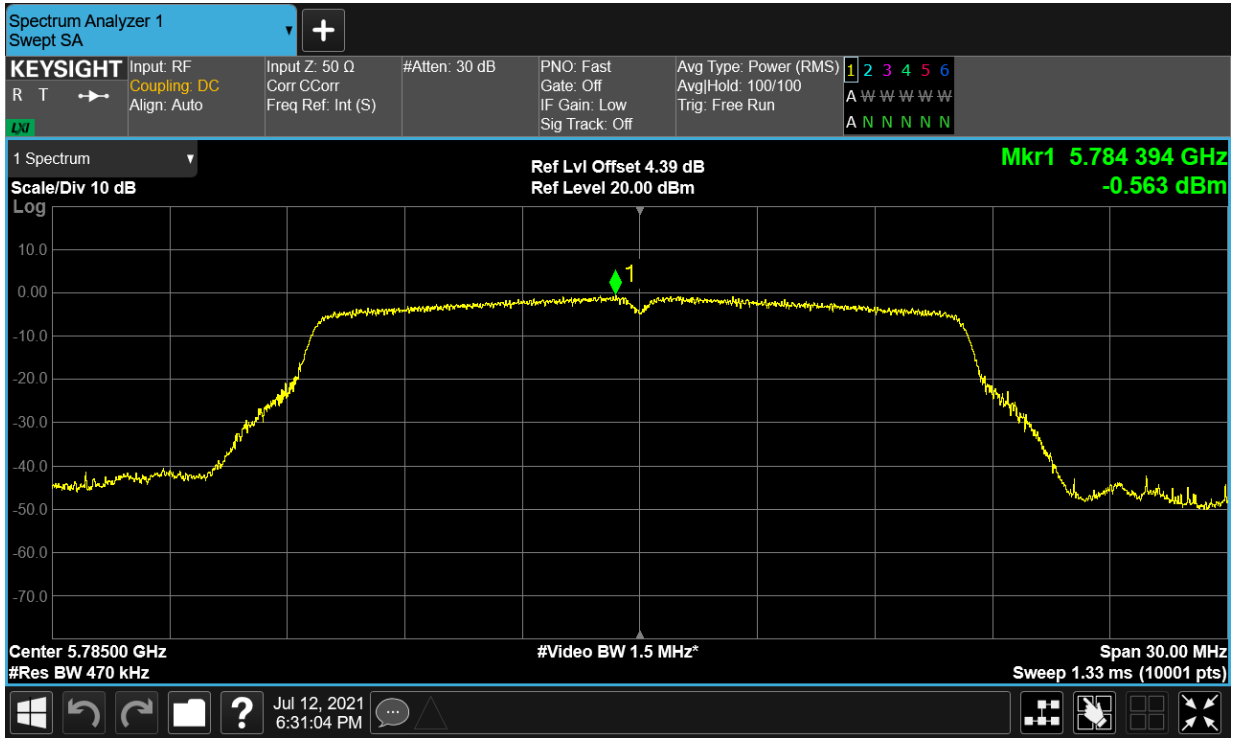
Note: Final result showed in report was corrected by reading level showed in test plots + correction factor.

$$\text{Correction factor} = 10 \log (500 \text{ kHz}_{\text{Reference}}/470 \text{ KHz}_{\text{Measured}}) = 0.269$$

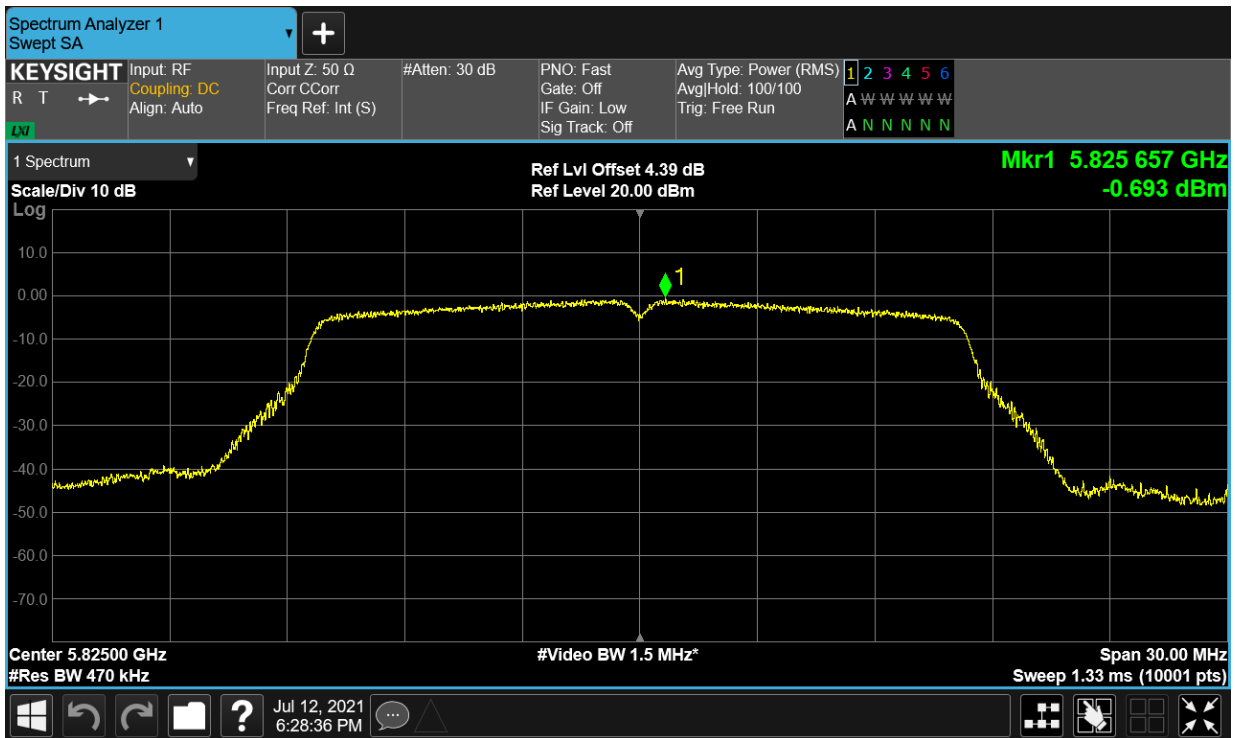
PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



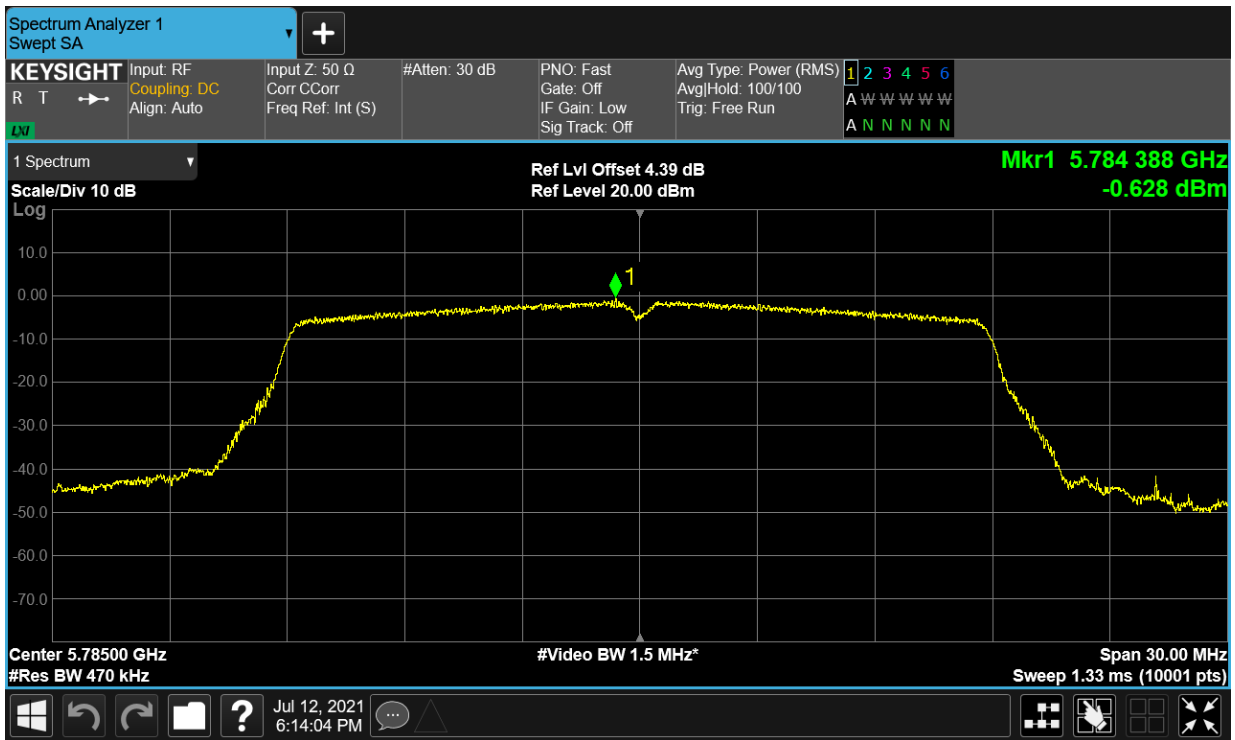
PSD NVNT a 5825MHz Ant1



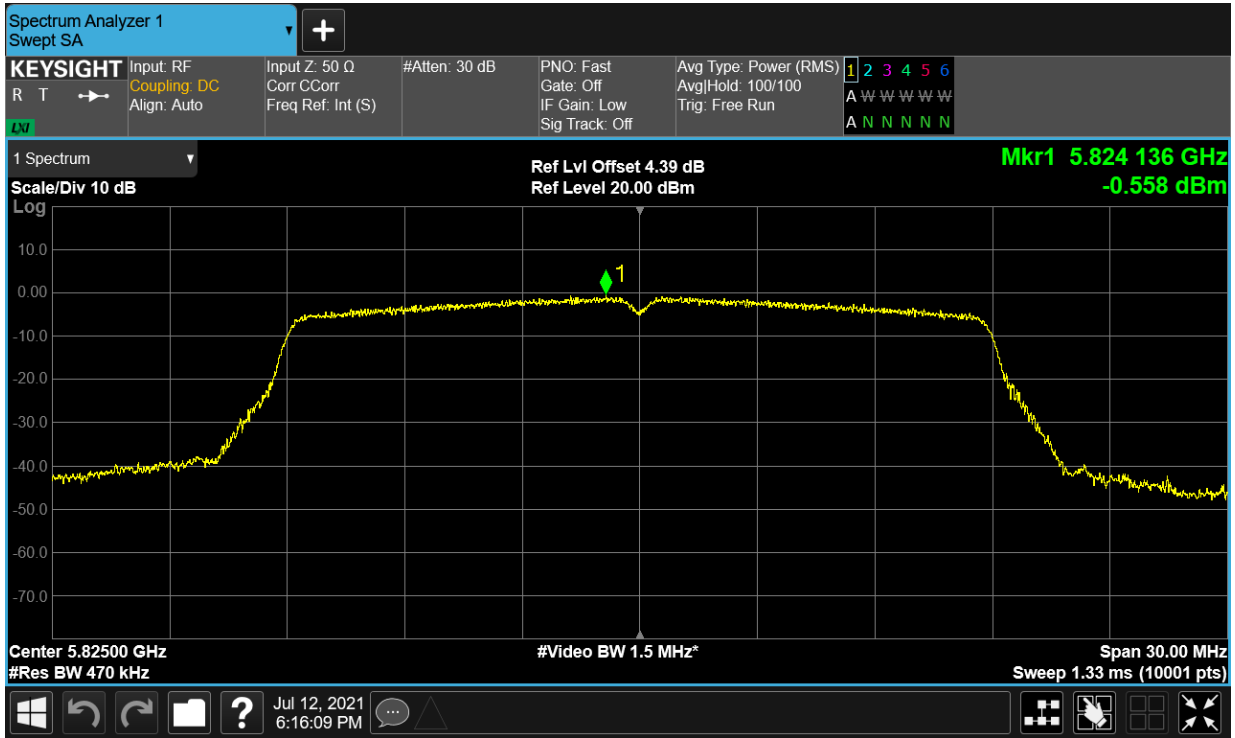
PSD NVNT ac20 5745MHz Ant1



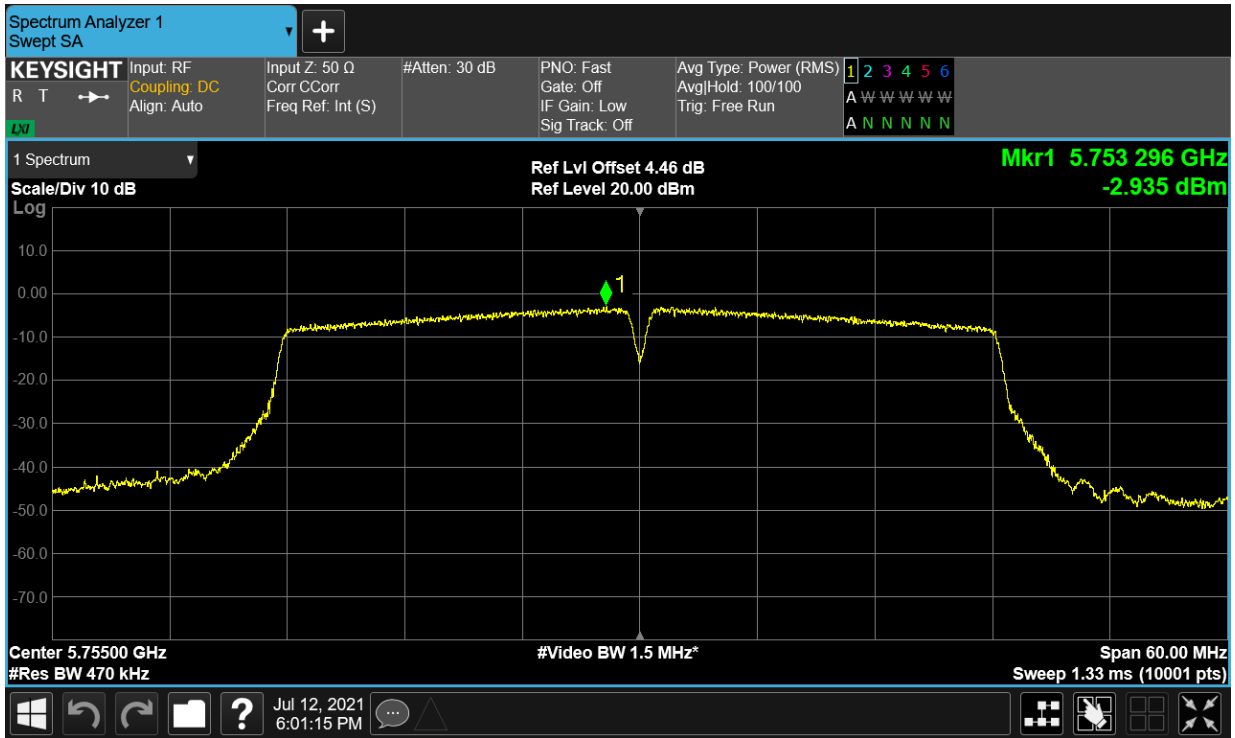
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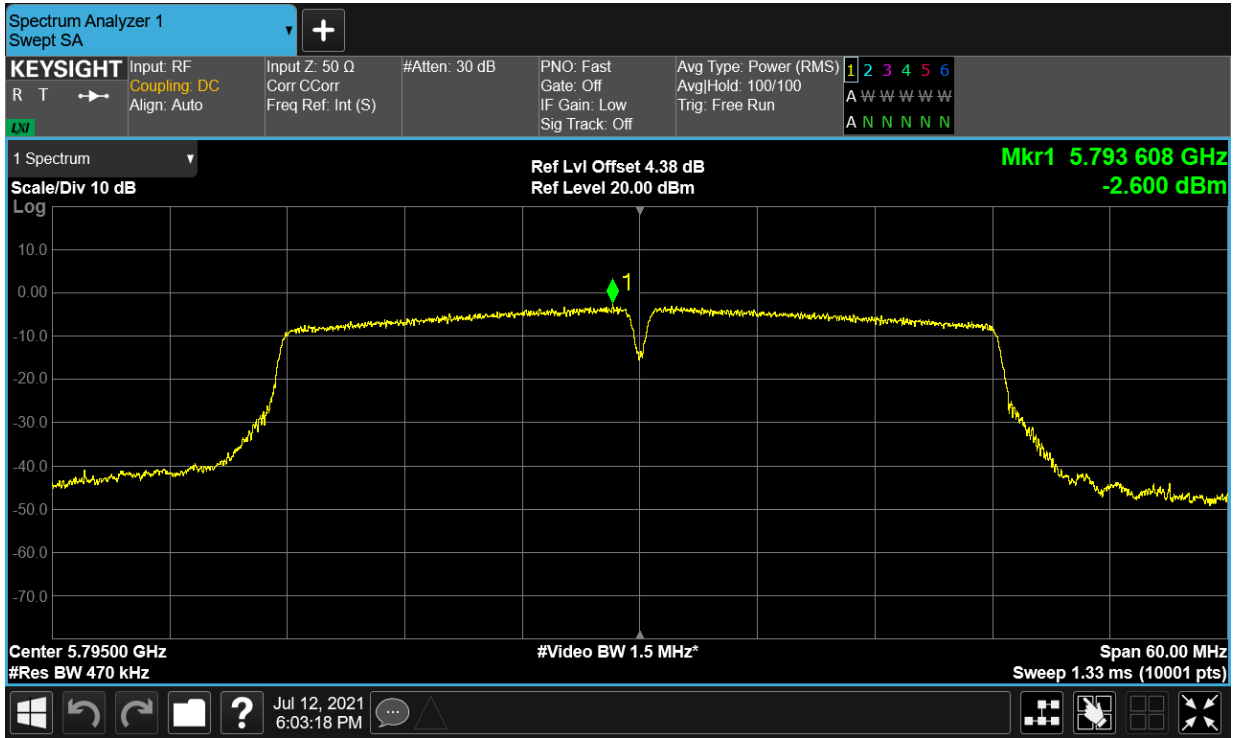
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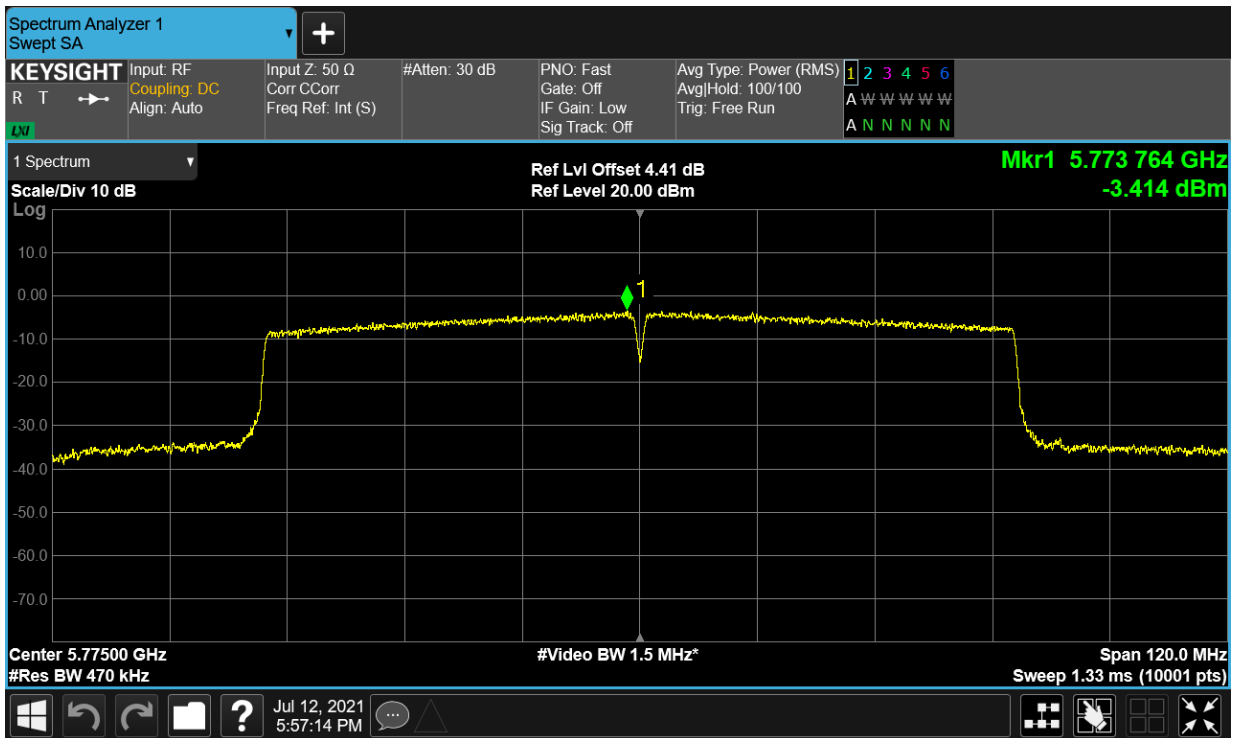
PSD NVNT ac40 5755MHz Ant1



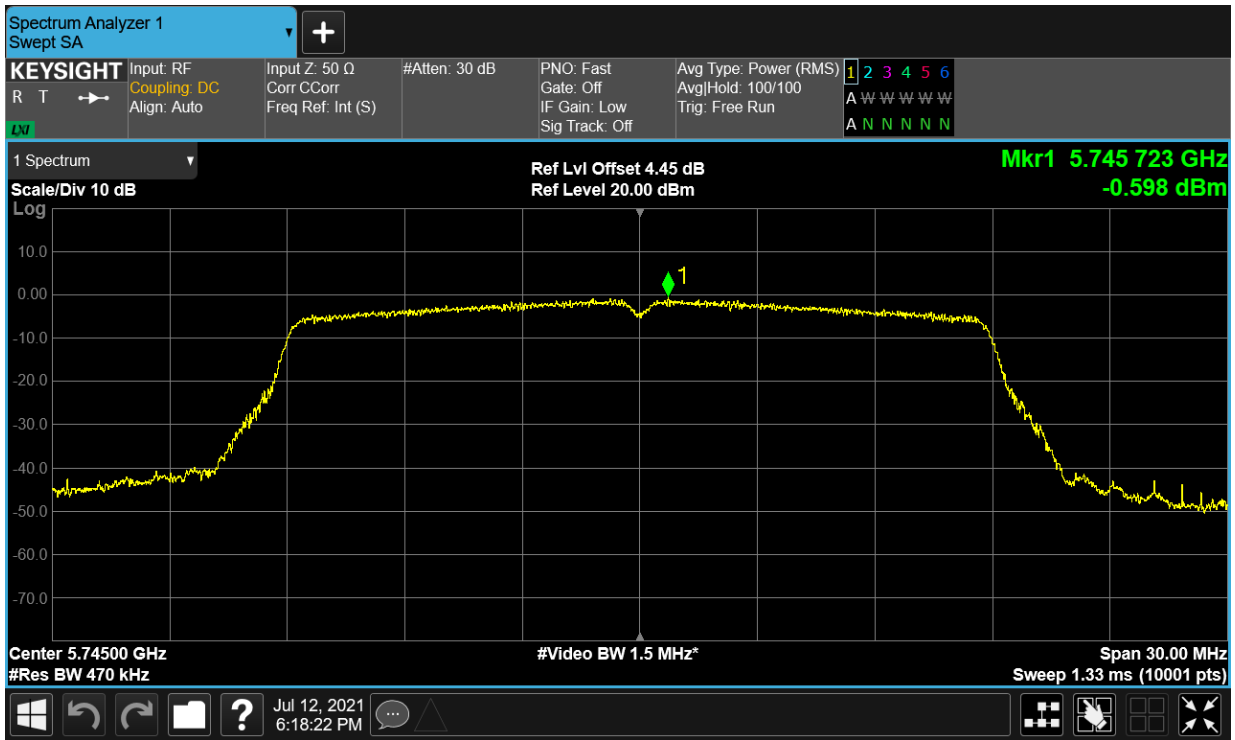
PSD NVNT ac40 5795MHz Ant1



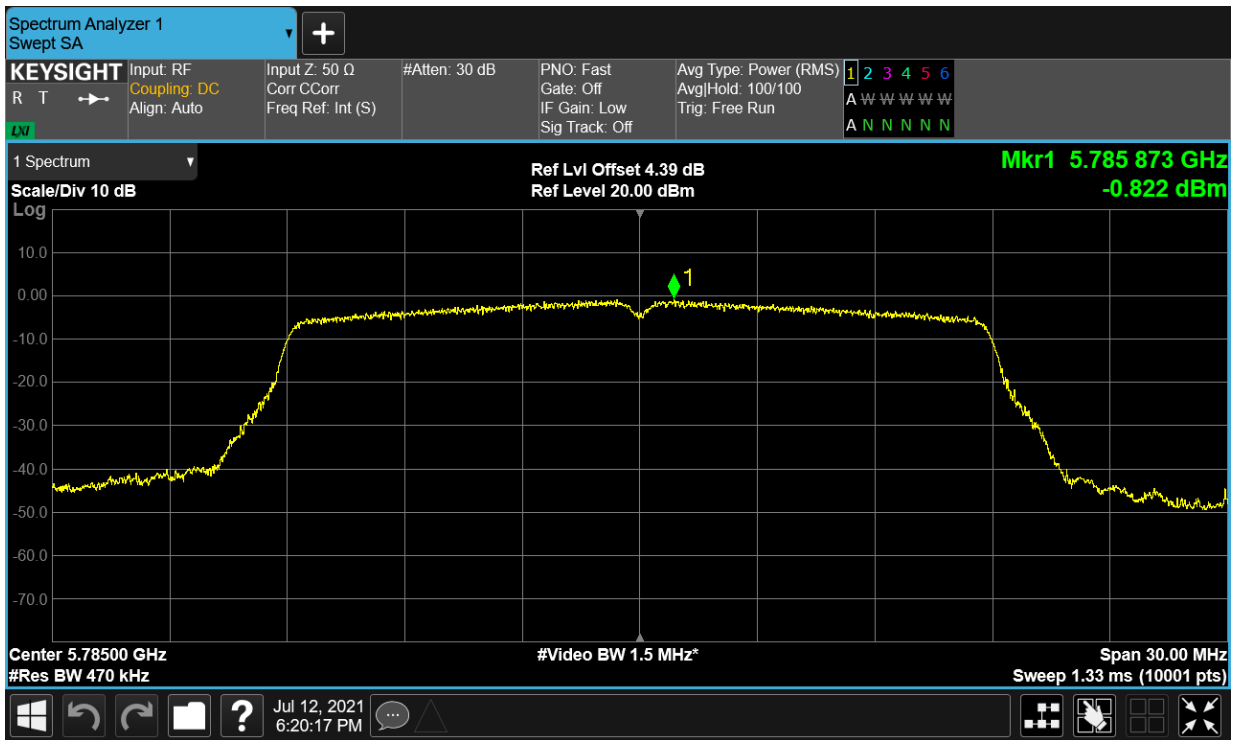
PSD NVNT ac80 5775MHz Ant1



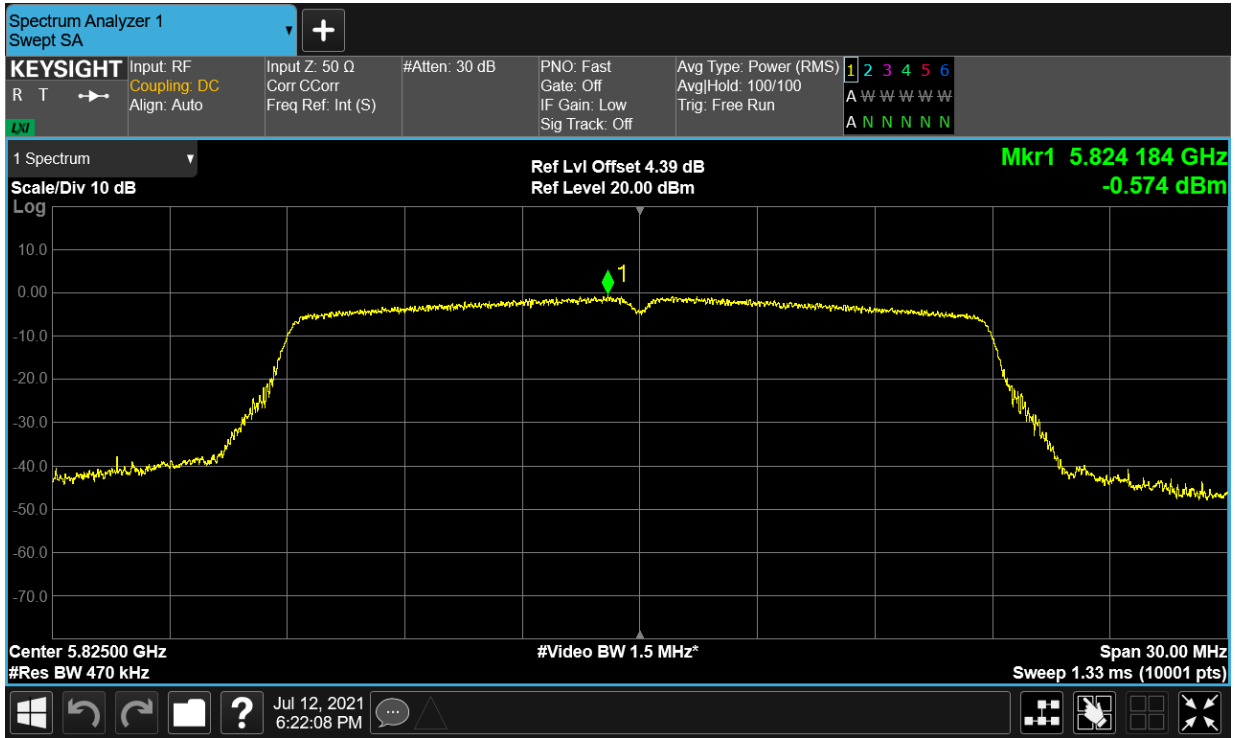
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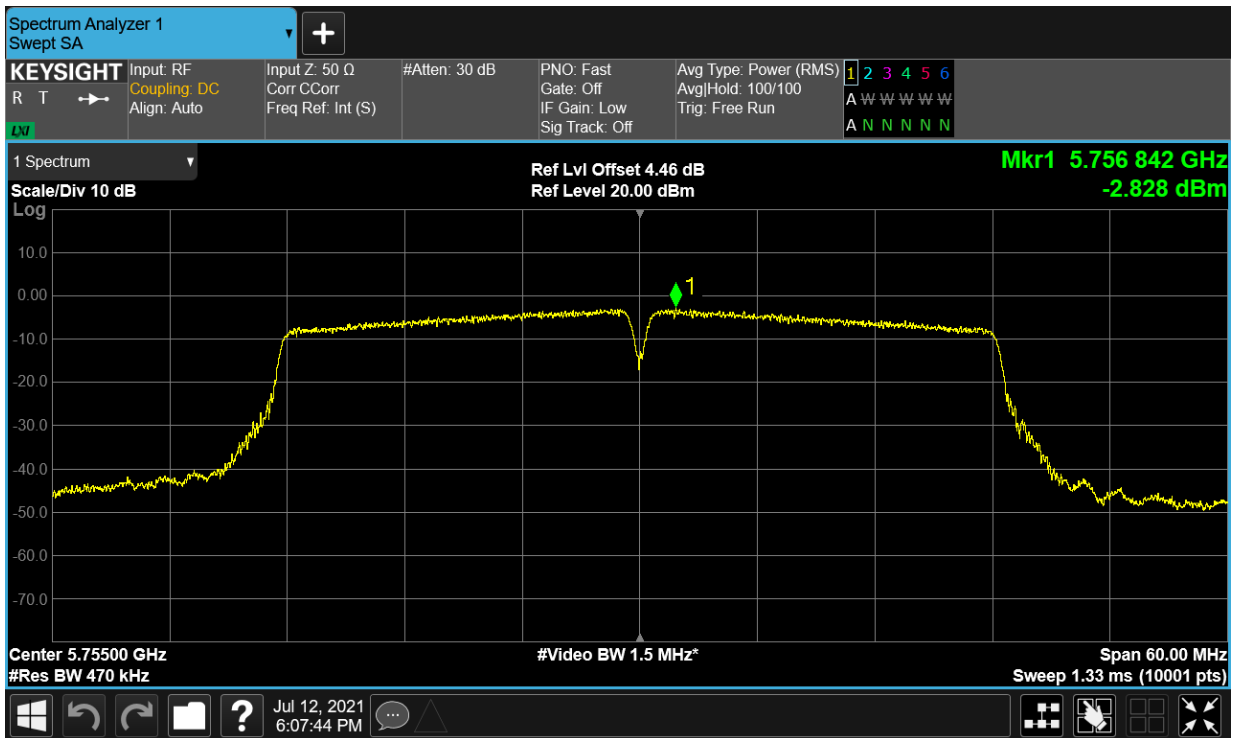
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

