

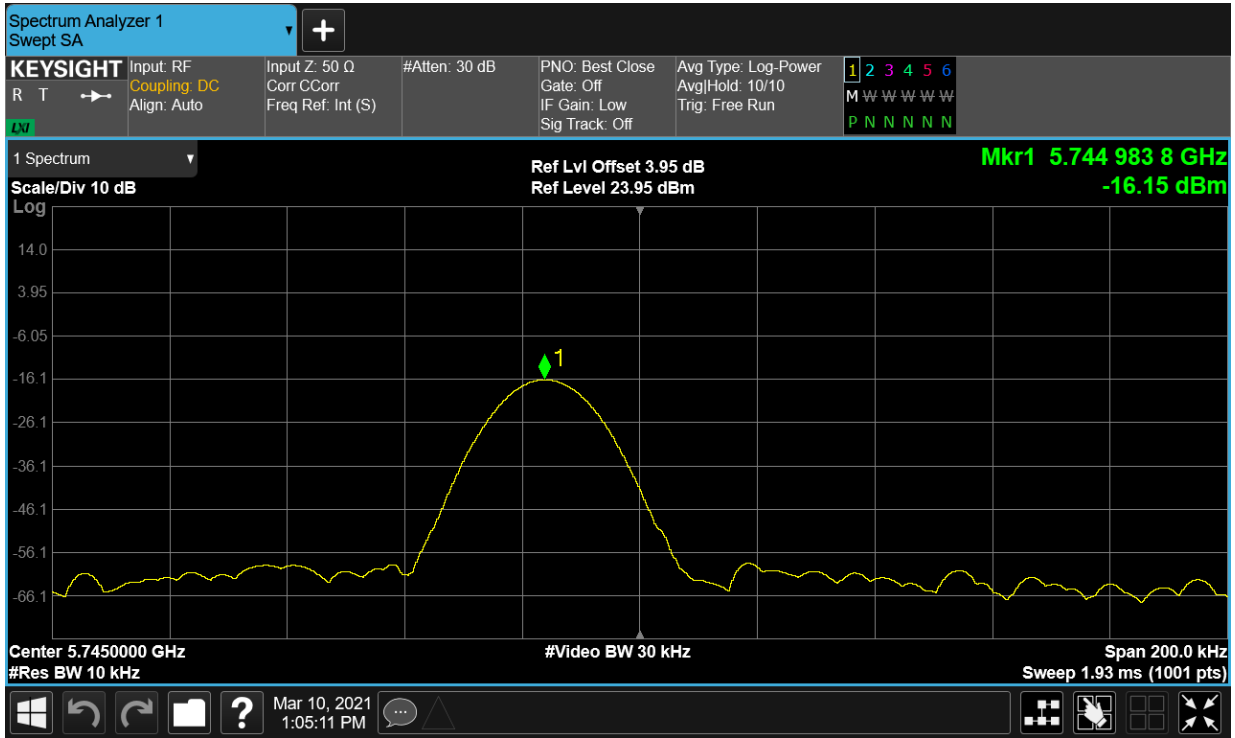
## Test Data

### Frequency Stability (worst case mode)

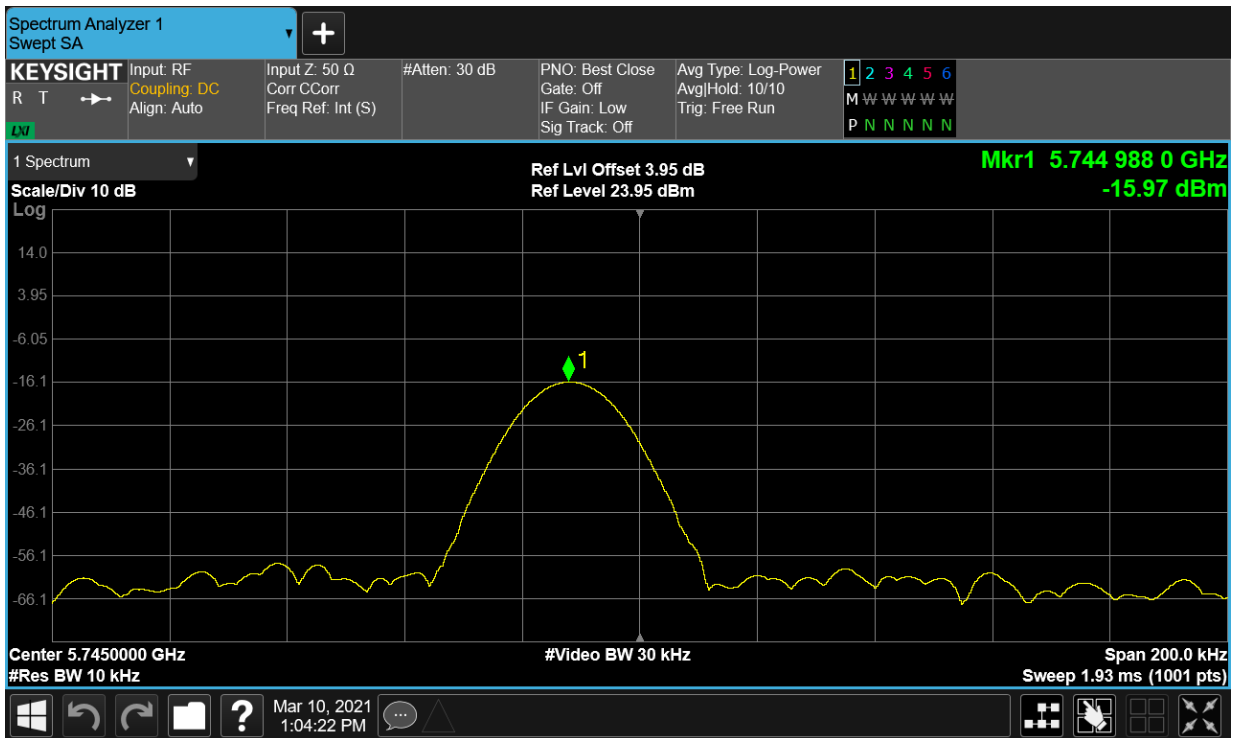
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5745	Ant1	5744.9838	-2.82	25	Pass
HVLT	a	5745	Ant1	5744.988	-2.09	25	Pass
LVHT	a	5745	Ant1	5744.9894	-1.85	25	Pass
LVLT	a	5745	Ant1	5744.9878	-2.12	25	Pass
NVNT	a	5745	Ant1	5744.989	-1.91	25	Pass
HVHT	ac80	5775	Ant1	5774.9824	-3.05	25	Pass
HVLT	ac80	5775	Ant1	5774.9828	-2.98	25	Pass
LVHT	ac80	5775	Ant1	5774.983	-2.94	25	Pass
LVLT	ac80	5775	Ant1	5774.9834	-2.87	25	Pass
NVNT	ac80	5775	Ant1	5774.9838	-2.81	25	Pass
HVHT	n40	5755	Ant1	5754.983	-2.95	25	Pass
HVLT	n40	5755	Ant1	5754.9832	-2.92	25	Pass
LVHT	n40	5755	Ant1	5754.9836	-2.85	25	Pass
LVLT	n40	5755	Ant1	5754.984	-2.78	25	Pass
NVNT	n40	5755	Ant1	5754.9842	-2.75	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.*

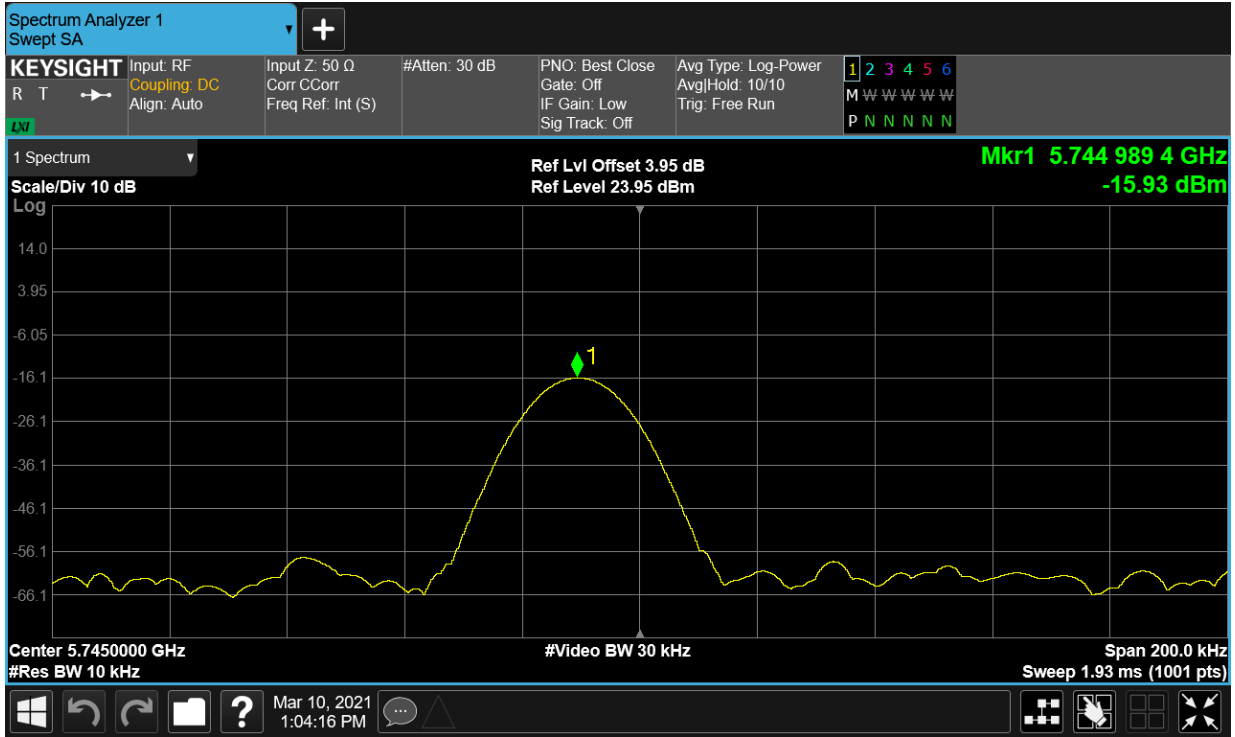
Freq. Stability HVHT a 5745MHz Ant1



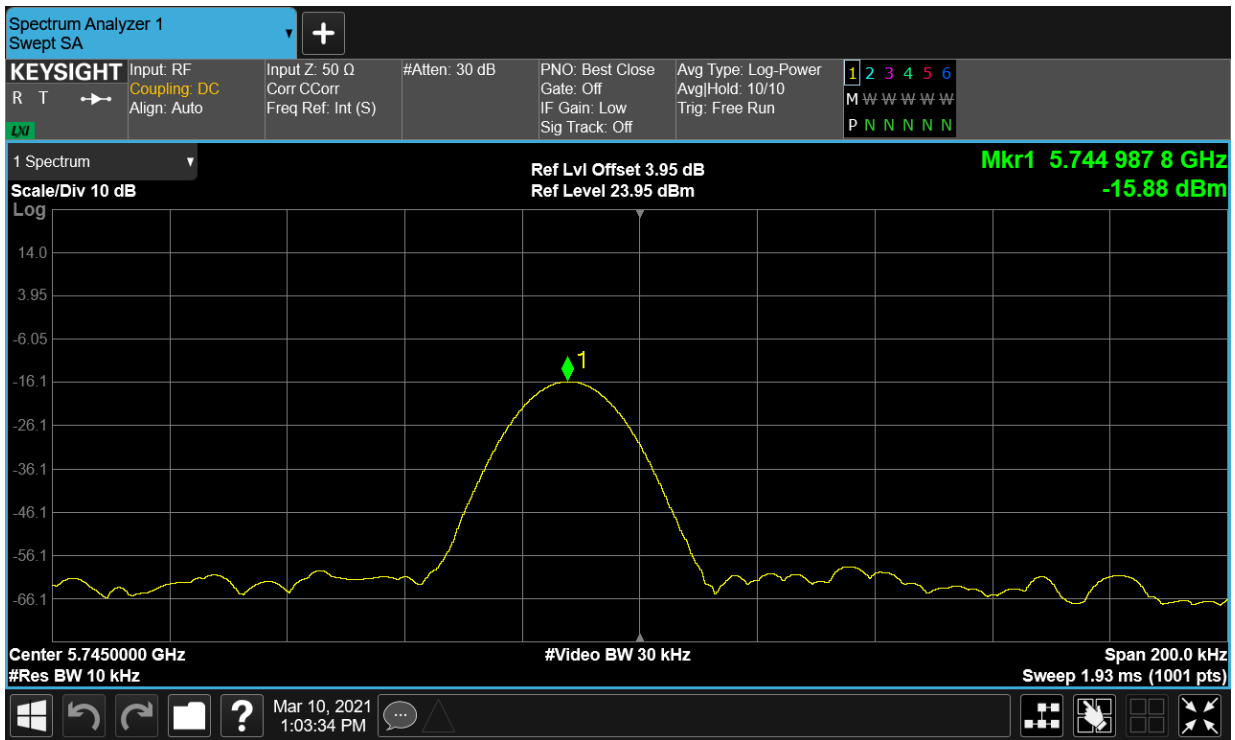
Freq. Stability HVLT a 5745MHz Ant1



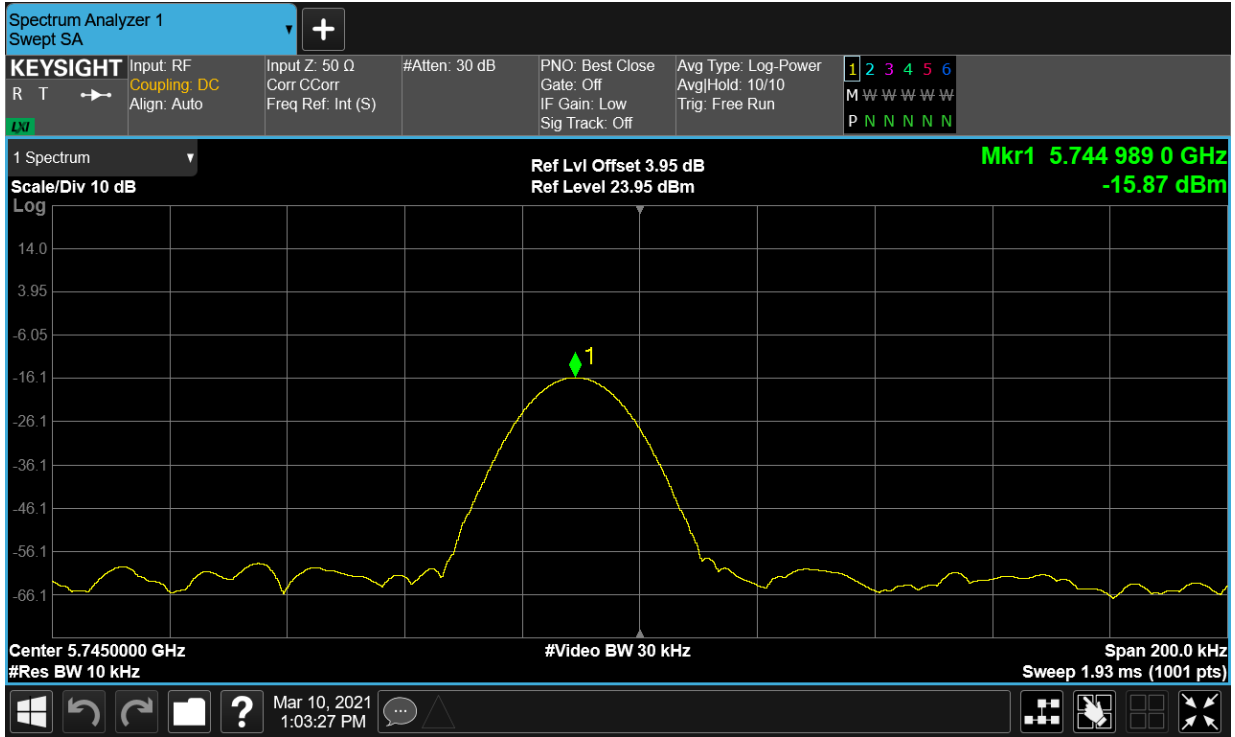
Freq. Stability LVHT a 5745MHz Ant1



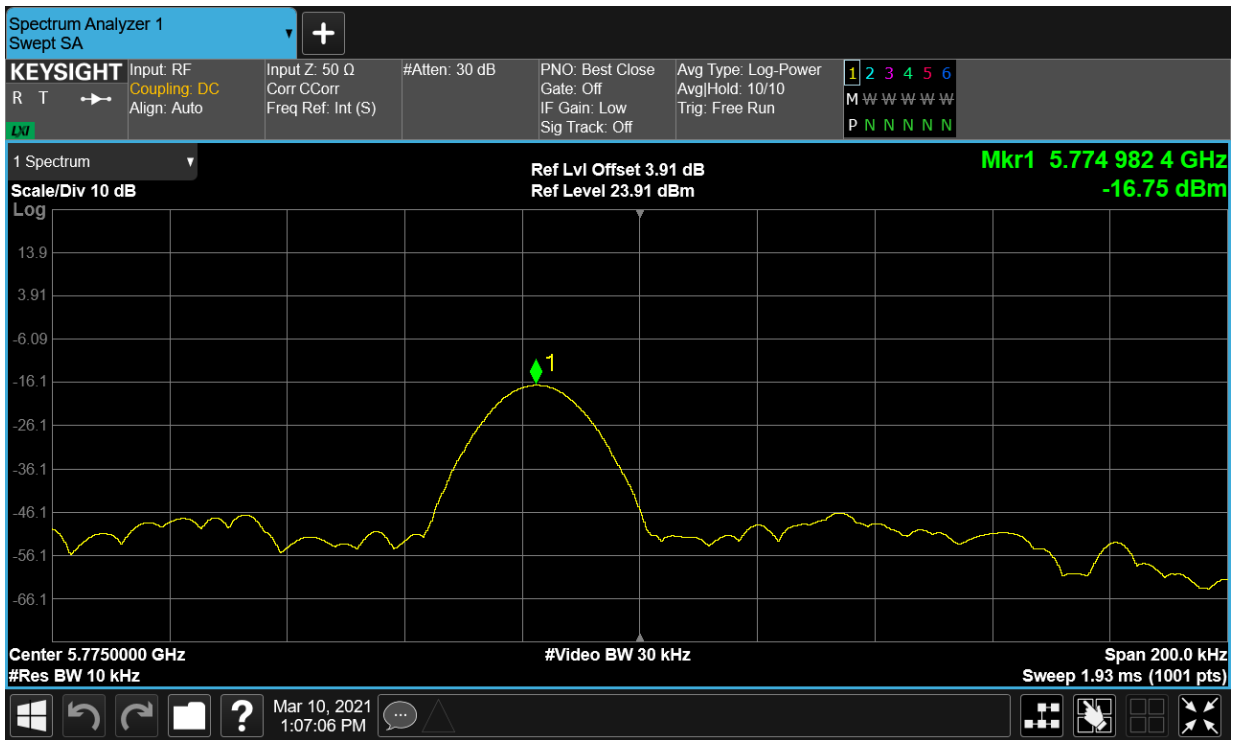
Freq. Stability LVLT a 5745MHz Ant1



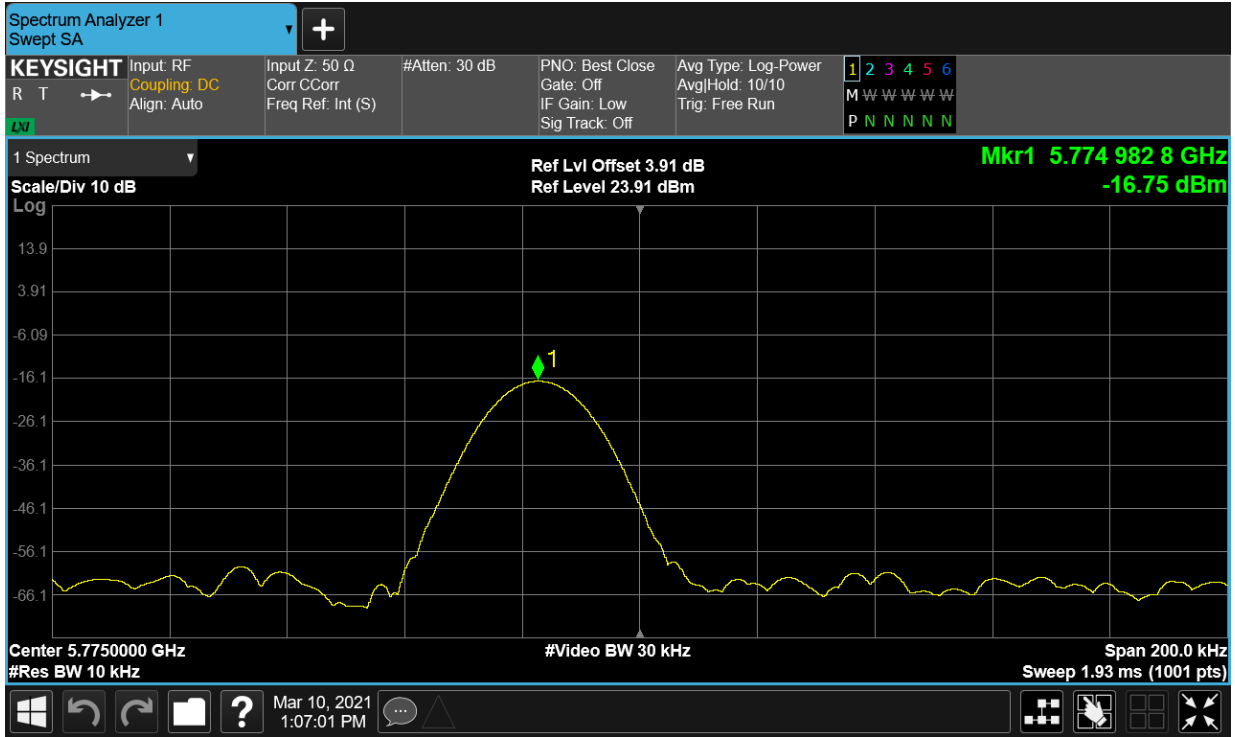
Freq. Stability NVNT a 5745MHz Ant1



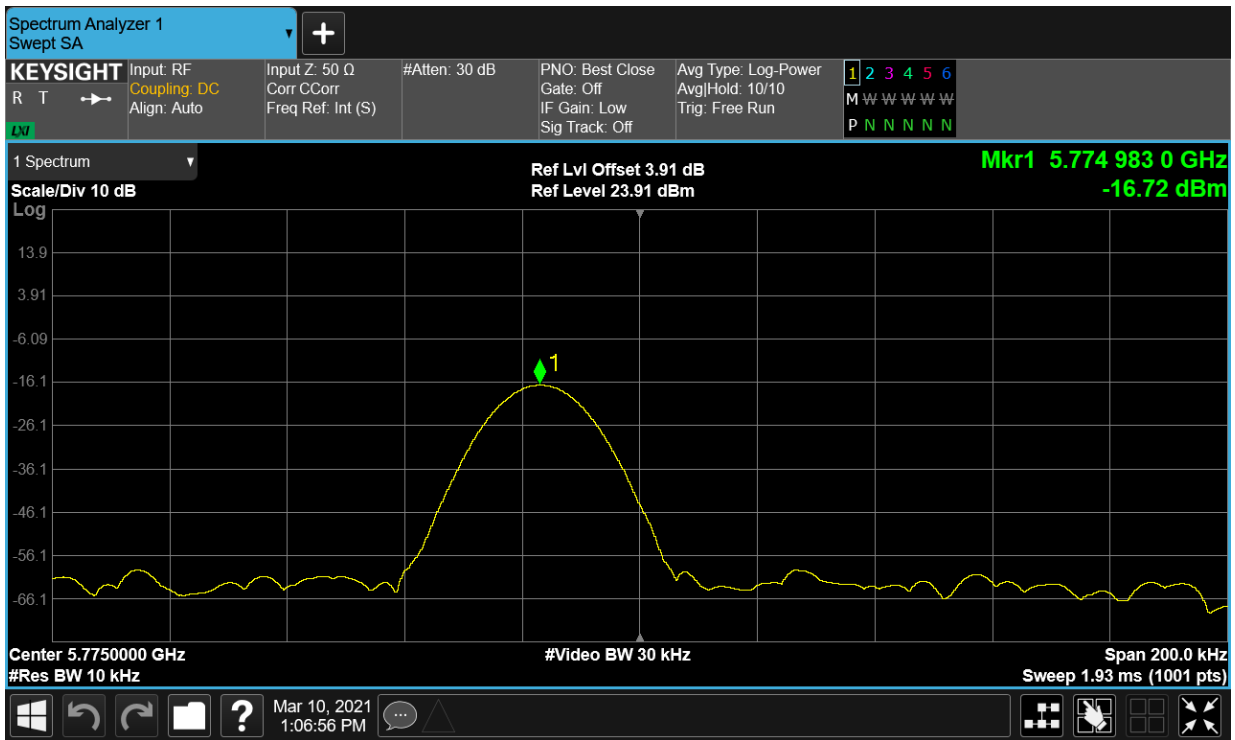
Freq. Stability HVHT ac80 5775MHz Ant1



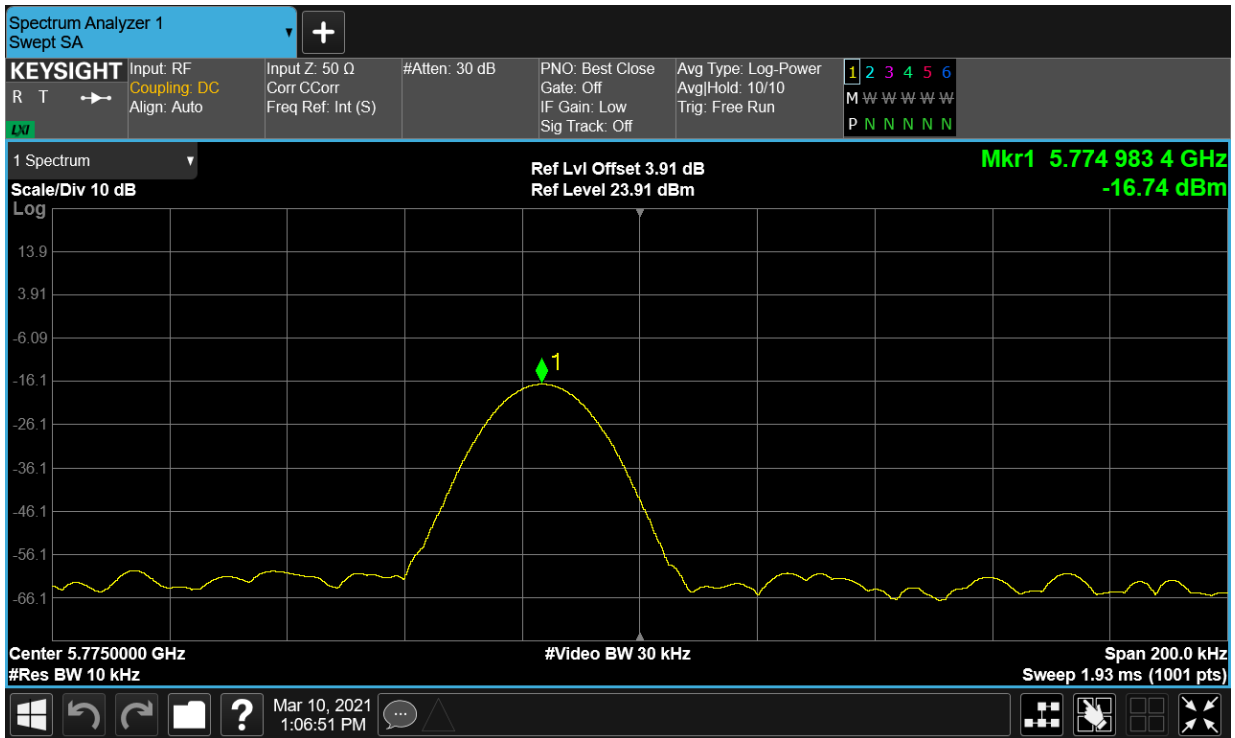
Freq. Stability HVLT ac80 5775MHz Ant1



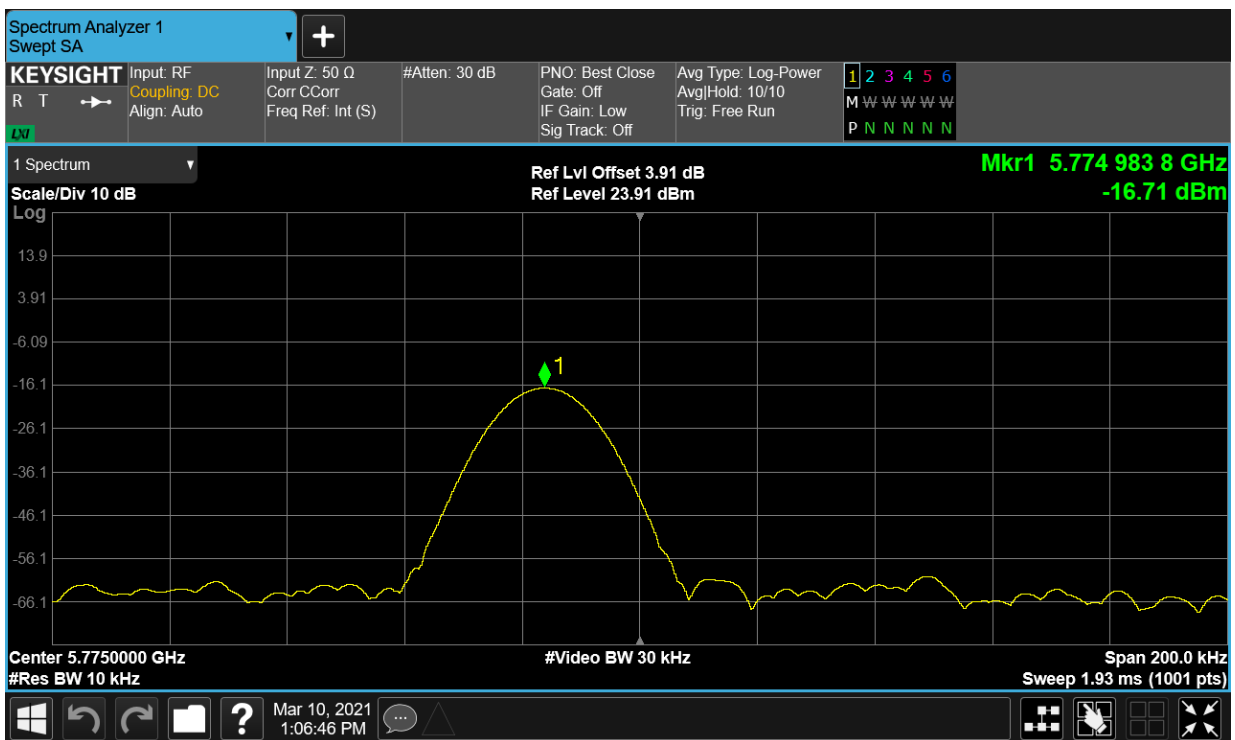
Freq. Stability LVHT ac80 5775MHz Ant1



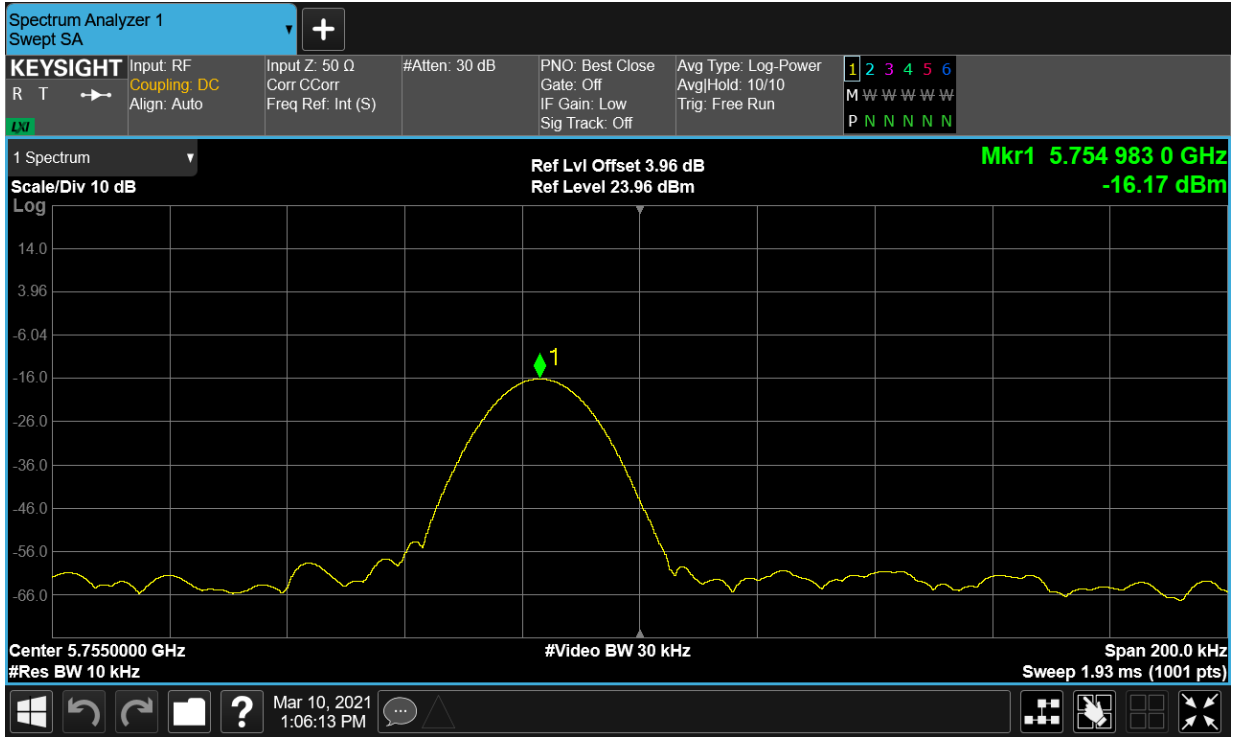
Freq. Stability LVLTL ac80 5775MHz Ant1



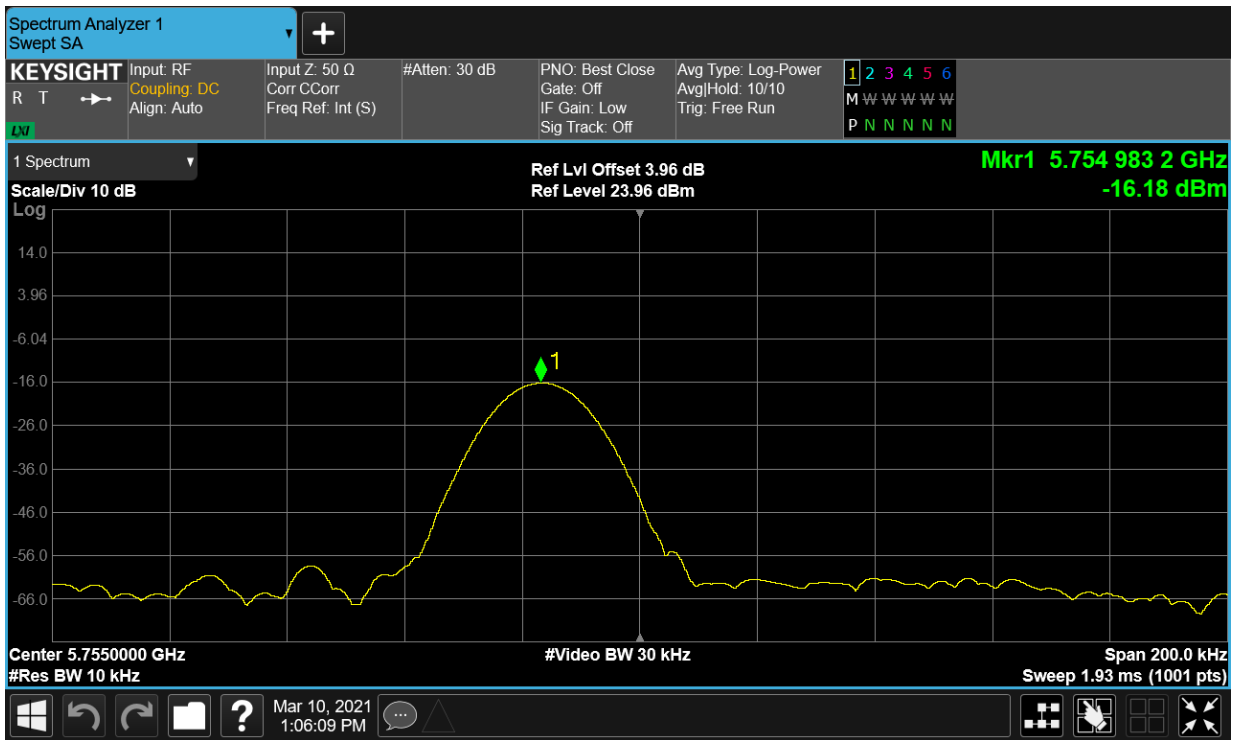
Freq. Stability NVNT ac80 5775MHz Ant1



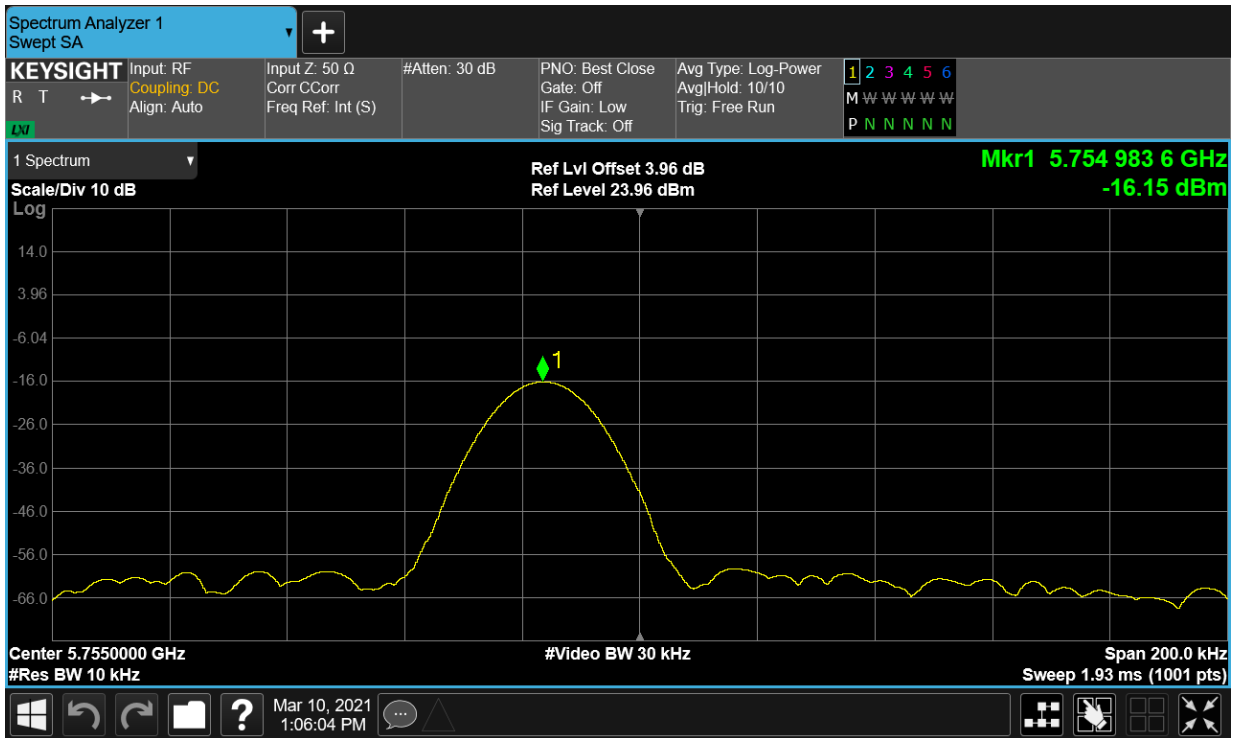
Freq. Stability HVHT n40 5755MHz Ant1



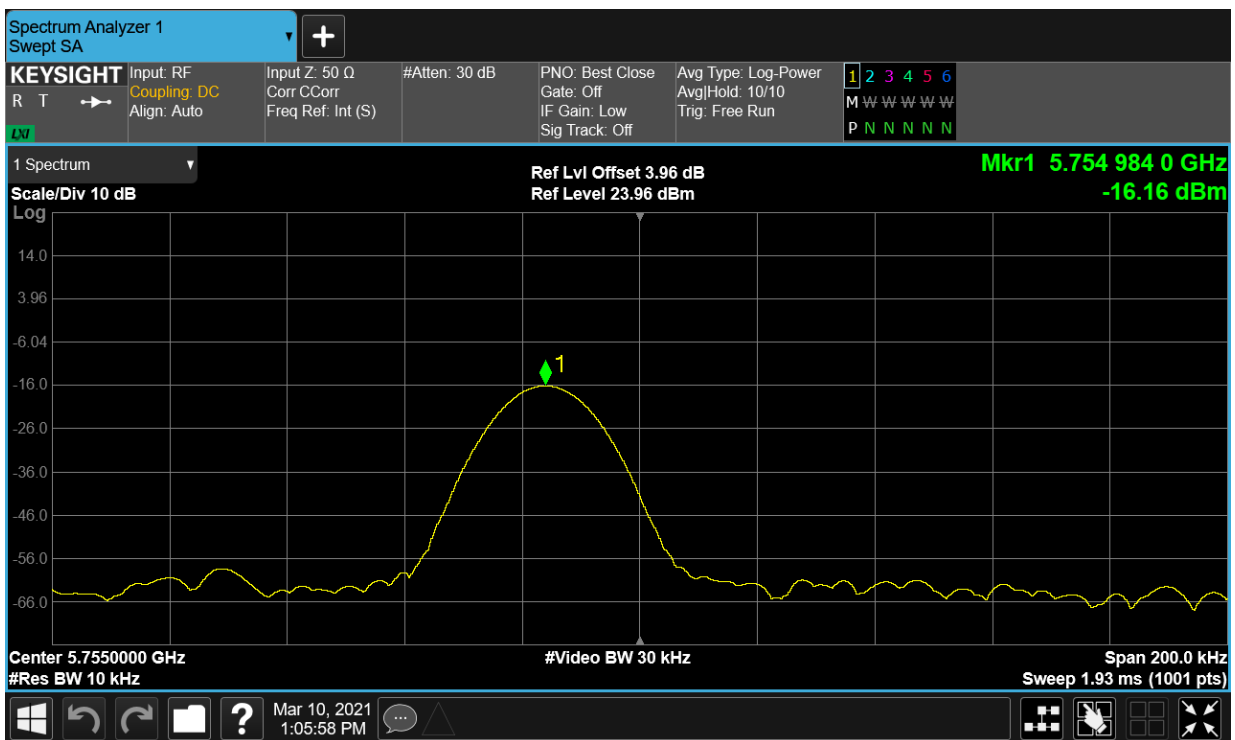
Freq. Stability HVLVT n40 5755MHz Ant1



Freq. Stability LVHT n40 5755MHz Ant1

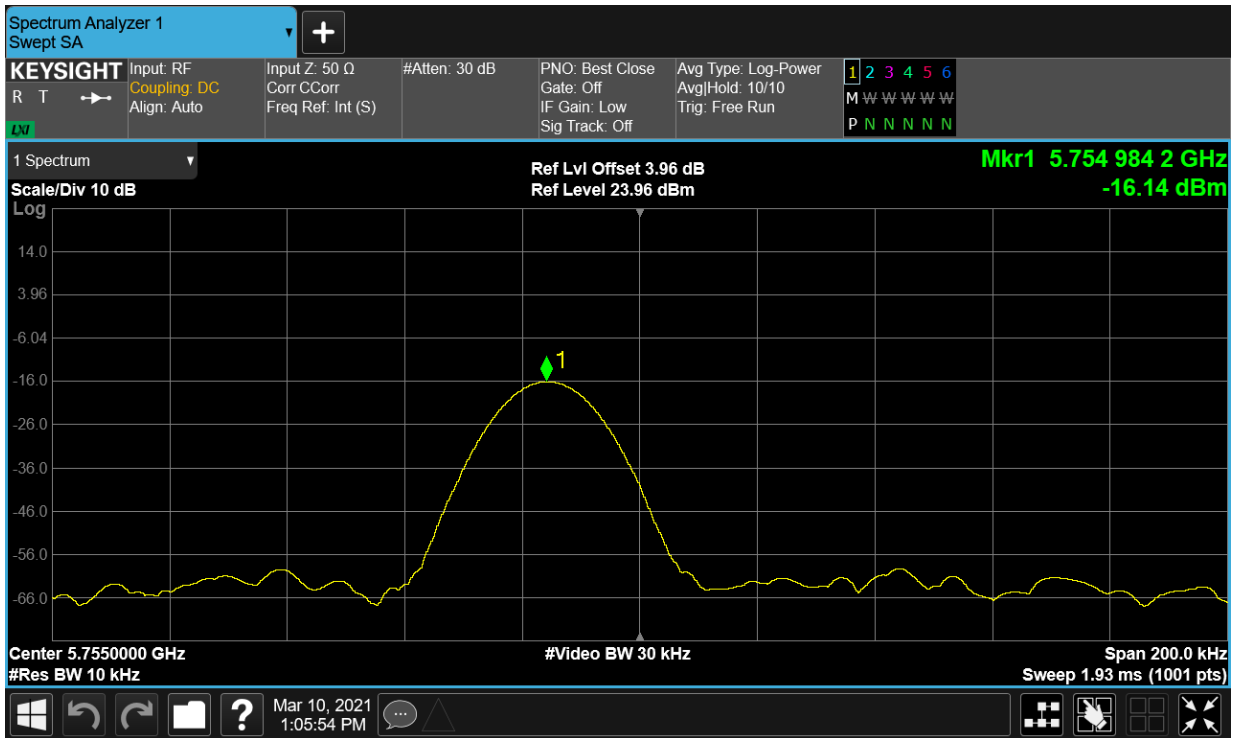


Freq. Stability LVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1

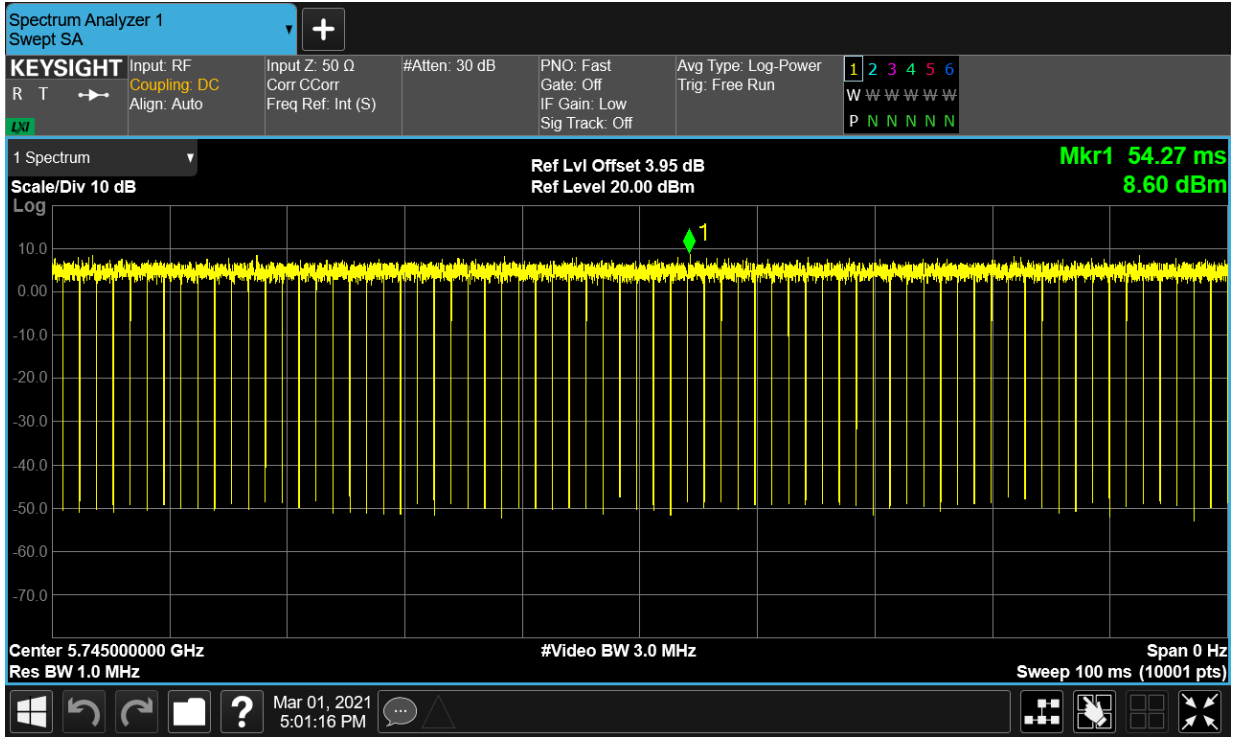




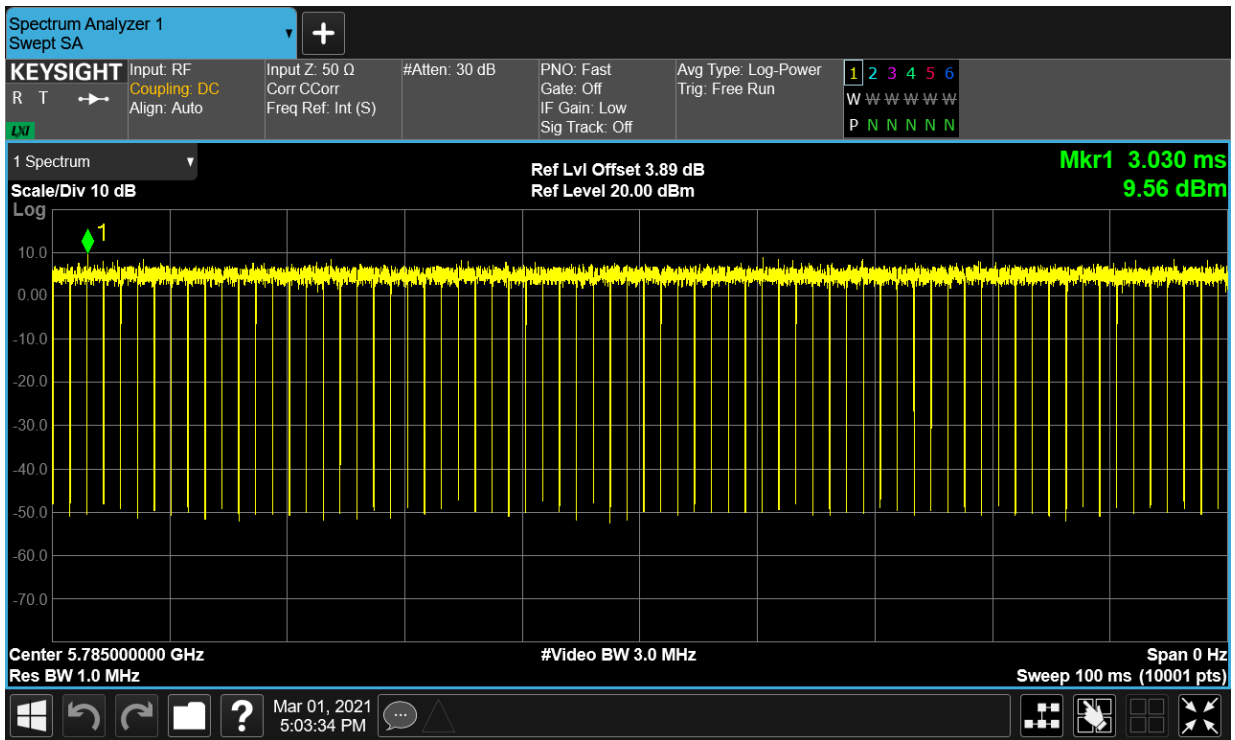
**Duty Cycle**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	97.75	0.1
NVNT	a	5785	Ant1	97.75	0.1
NVNT	a	5825	Ant1	97.77	0.1
NVNT	ac20	5745	Ant1	97.65	0.1
NVNT	ac20	5785	Ant1	97.64	0.1
NVNT	ac20	5825	Ant1	97.62	0.1
NVNT	ac40	5755	Ant1	95.36	0.21
NVNT	ac40	5795	Ant1	95.39	0.2
NVNT	ac80	5775	Ant1	91.3	0.4
NVNT	n20	5745	Ant1	97.64	0.1
NVNT	n20	5785	Ant1	97.61	0.11
NVNT	n20	5825	Ant1	97.58	0.11
NVNT	n40	5755	Ant1	95.34	0.21
NVNT	n40	5795	Ant1	95.38	0.21

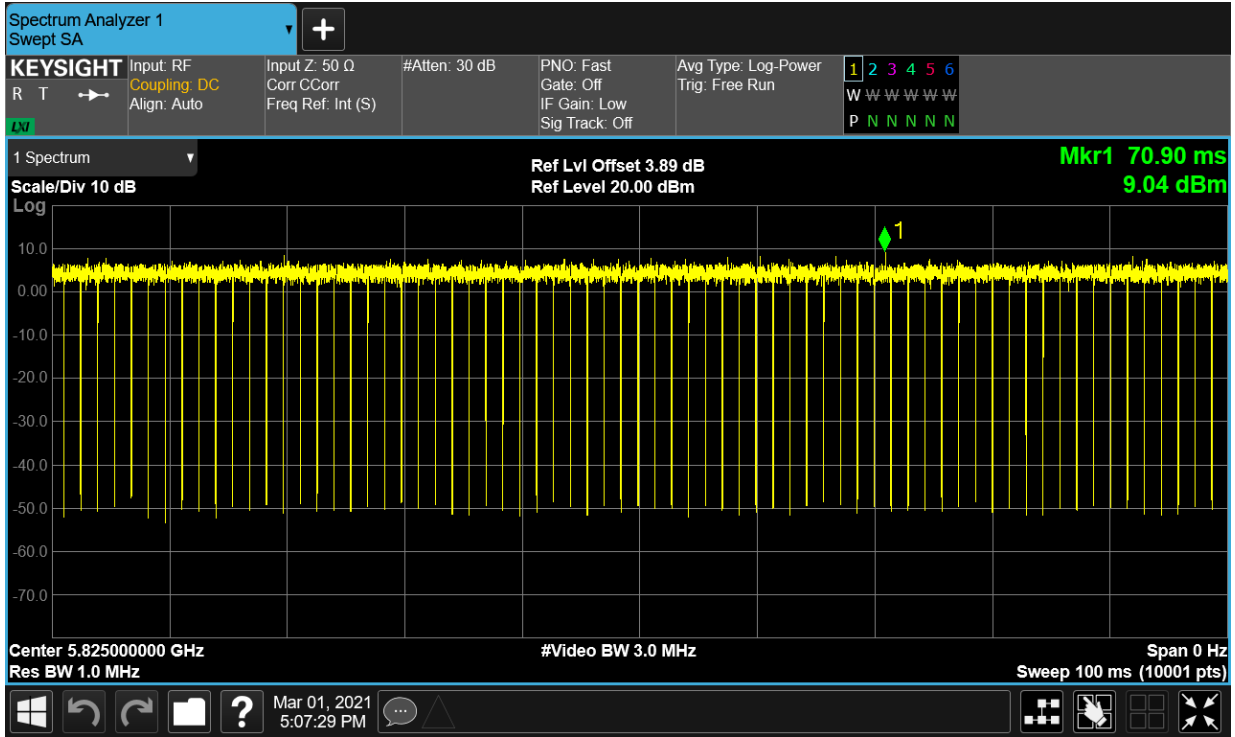
Duty Cycle NVNT a 5745MHz Ant1



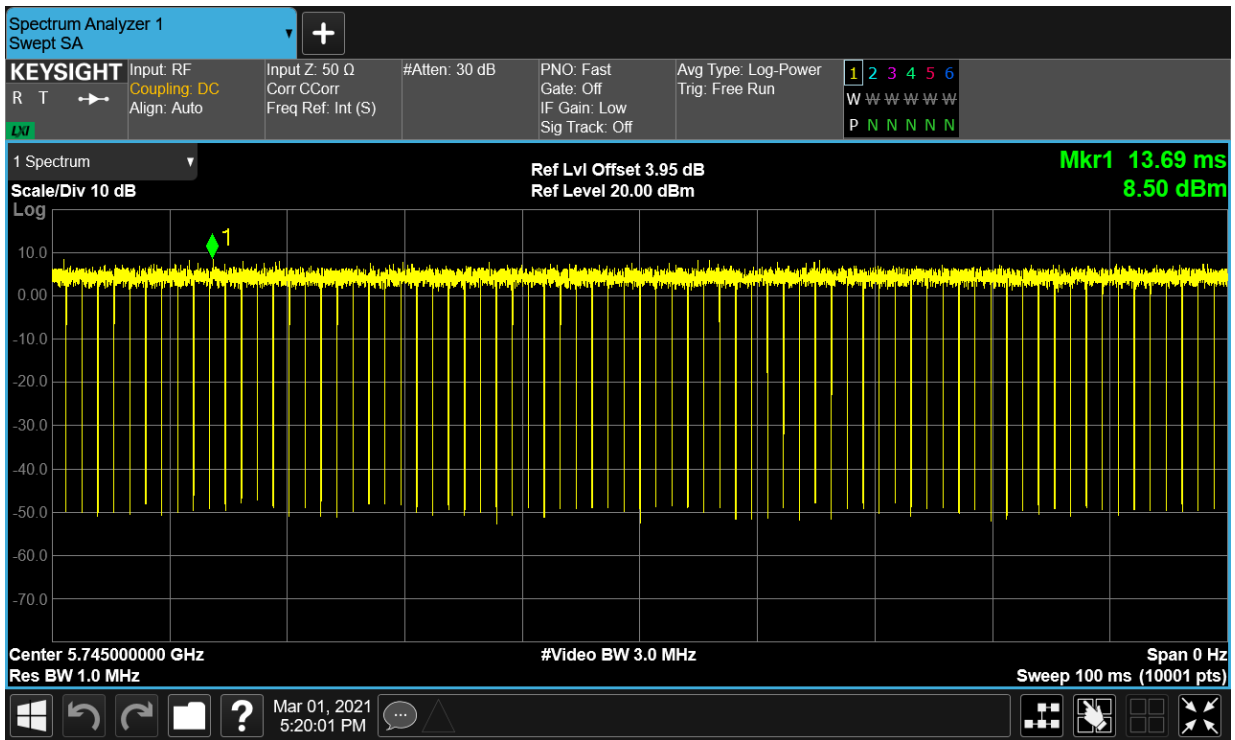
Duty Cycle NVNT a 5785MHz Ant1



Duty Cycle NVNT a 5825MHz Ant1



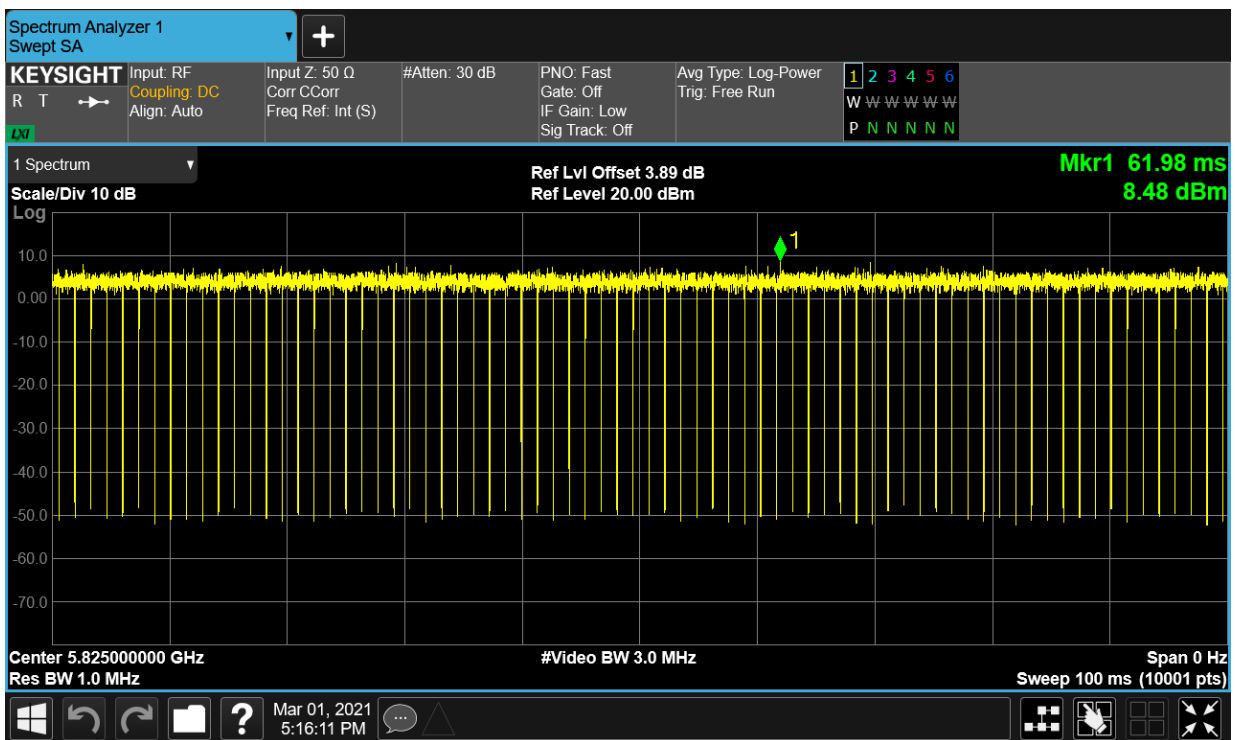
Duty Cycle NVNT ac20 5745MHz Ant1



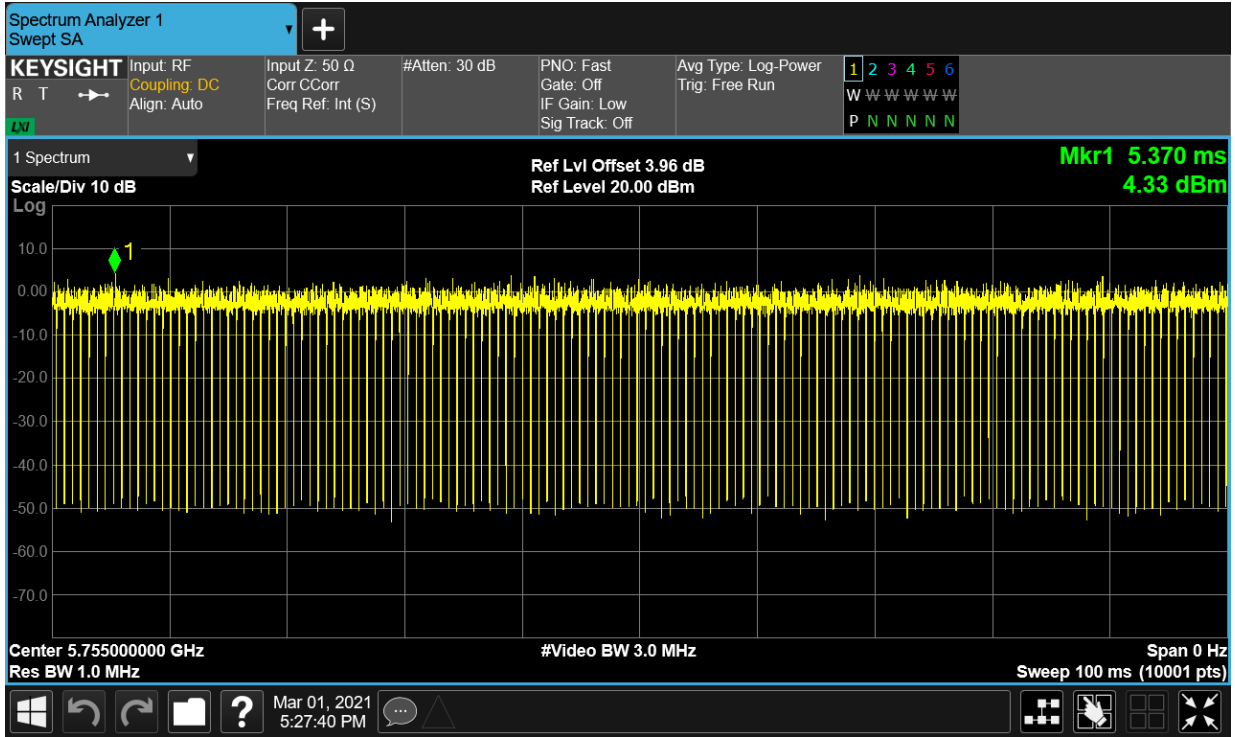
Duty Cycle NVNT ac20 5785MHz Ant1



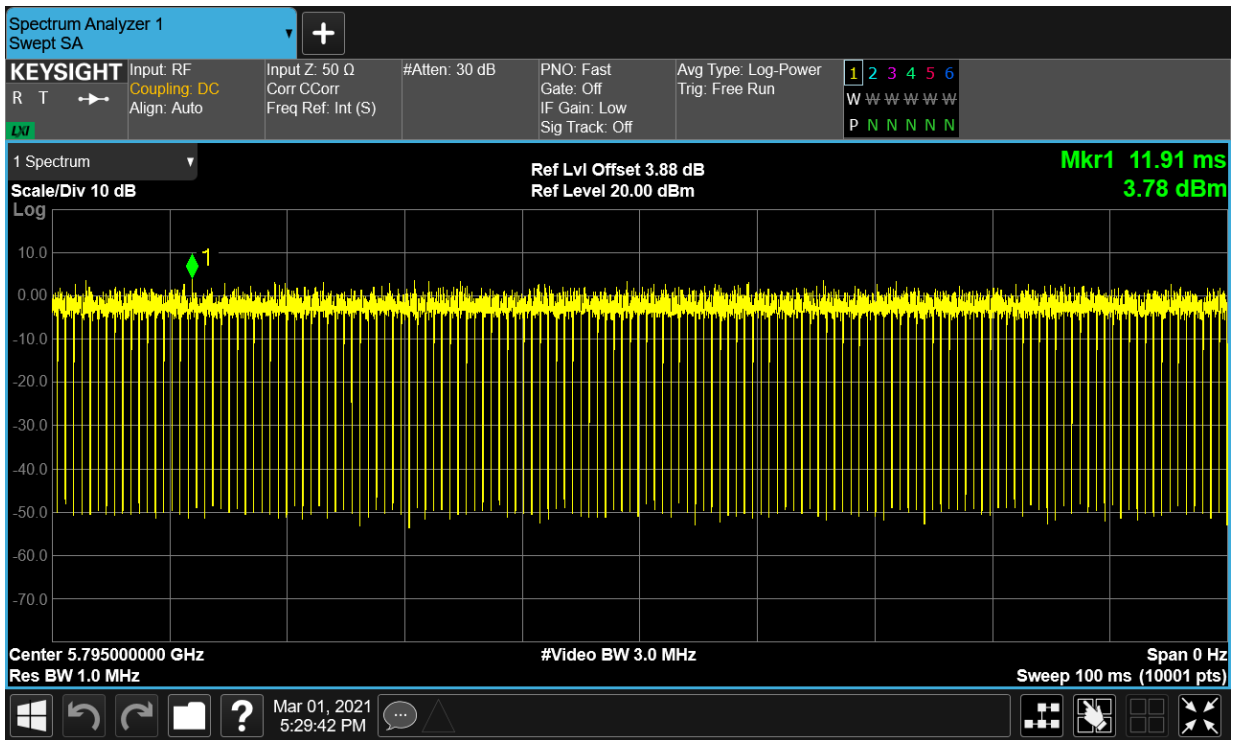
Duty Cycle NVNT ac20 5825MHz Ant1



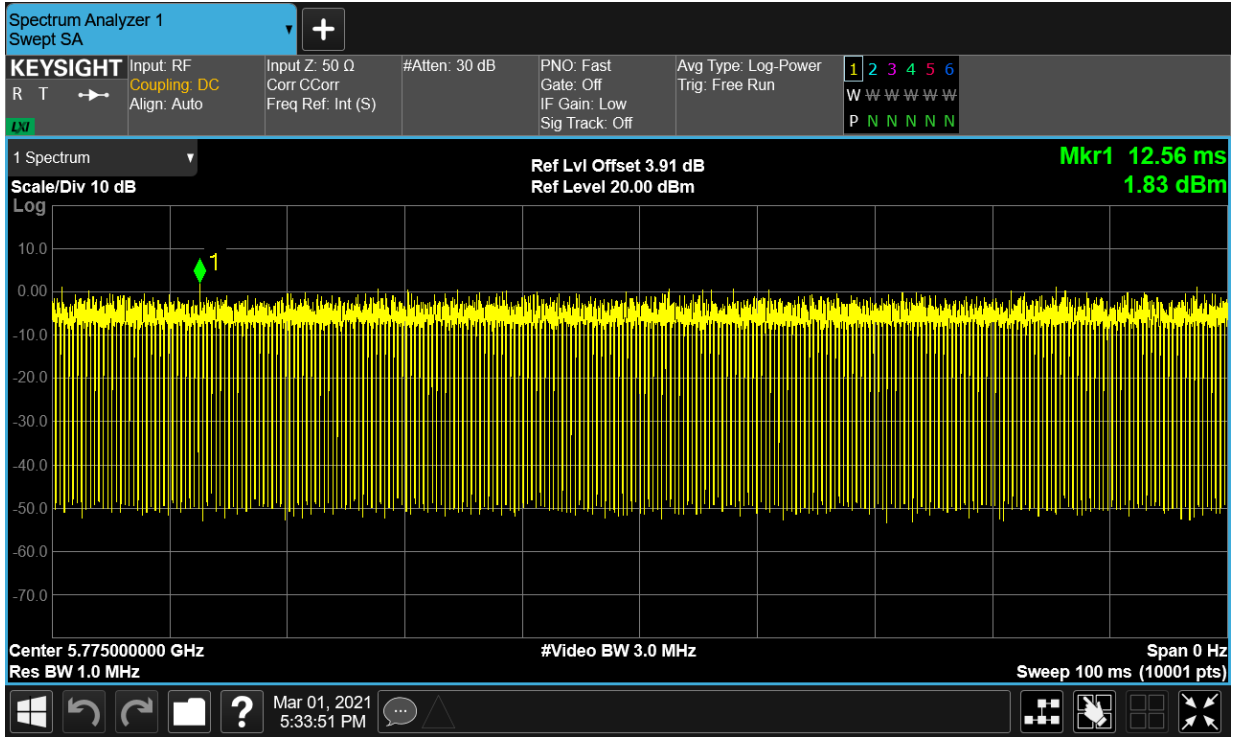
Duty Cycle NVNT ac40 5755MHz Ant1



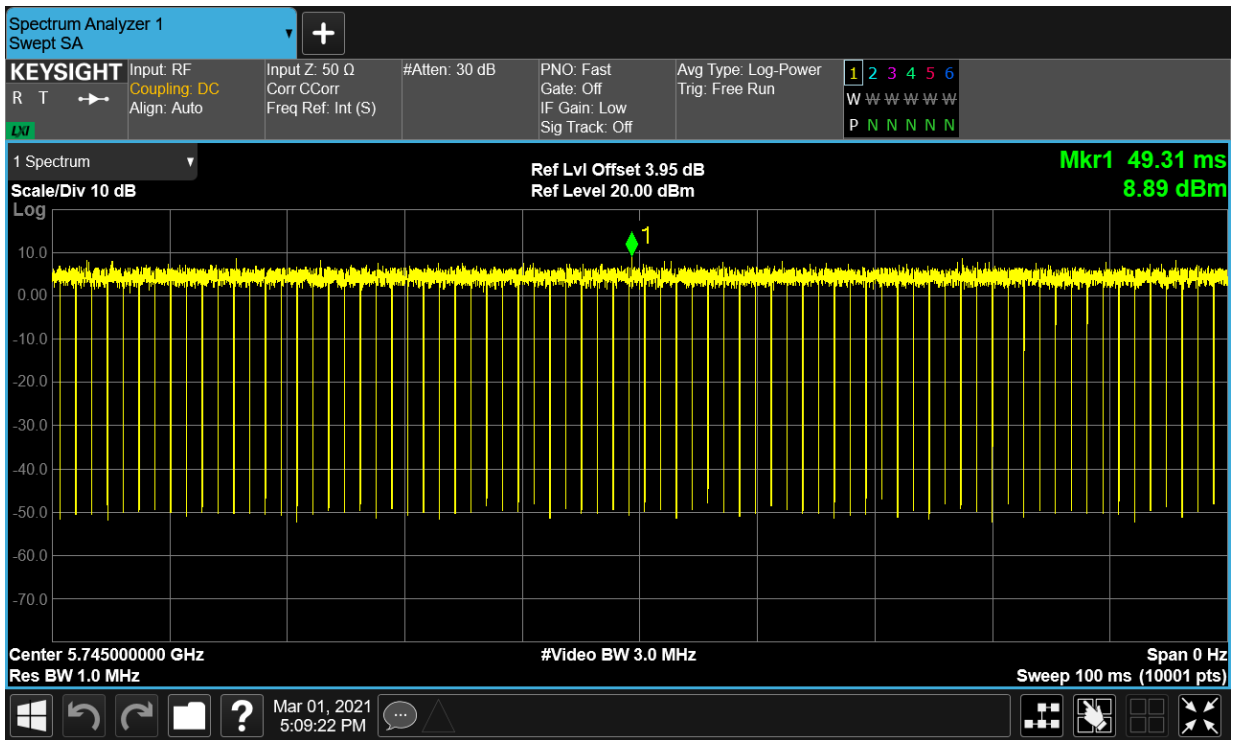
Duty Cycle NVNT ac40 5795MHz Ant1



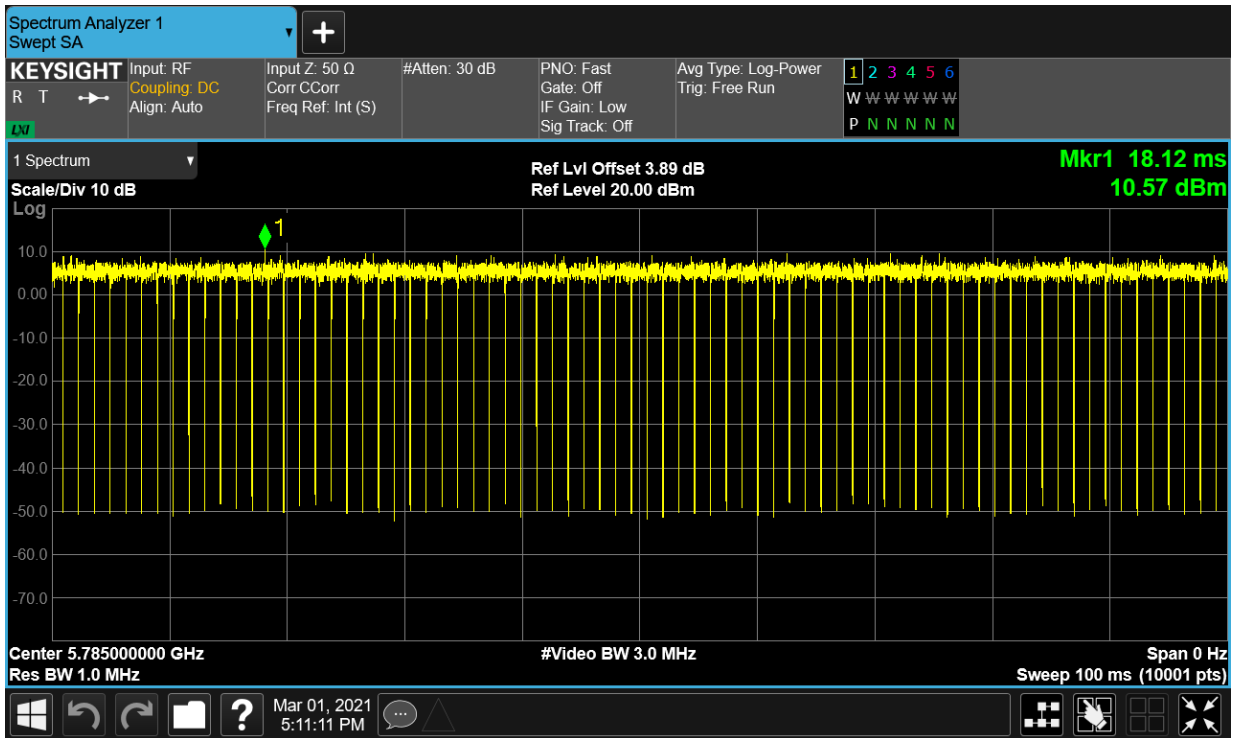
Duty Cycle NVNT ac80 5775MHz Ant1



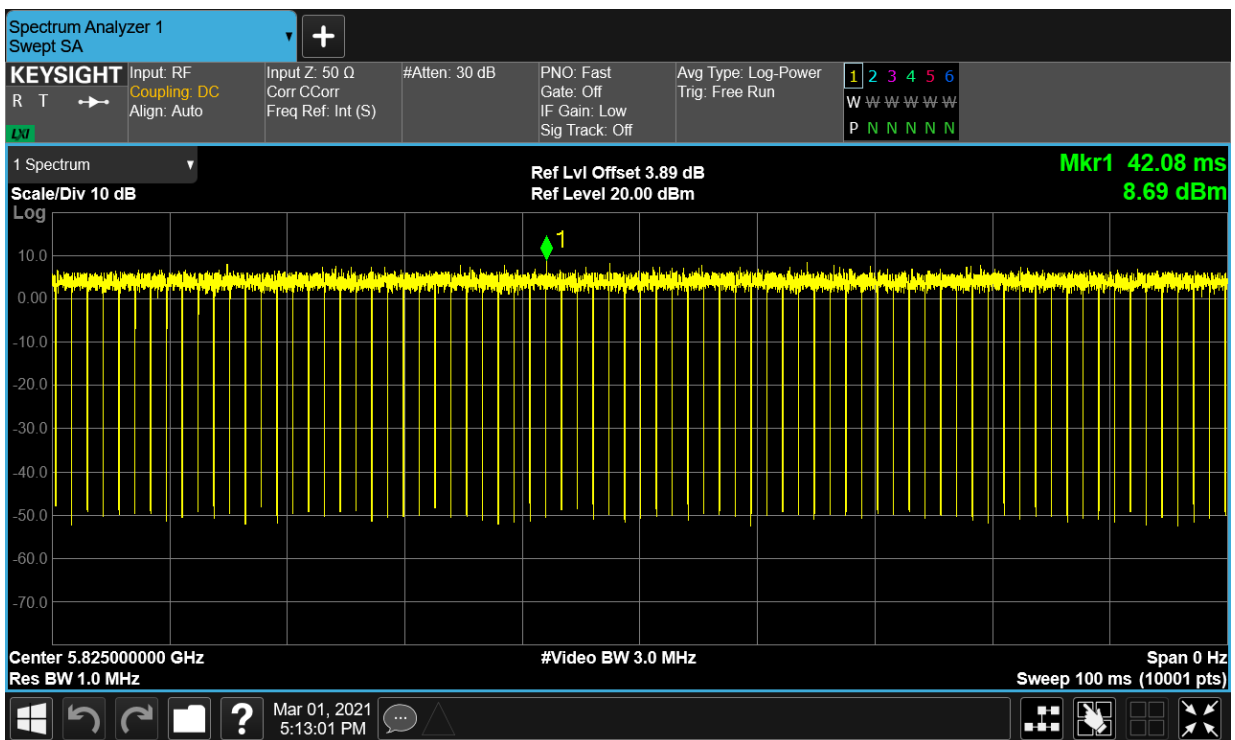
Duty Cycle NVNT n20 5745MHz Ant1



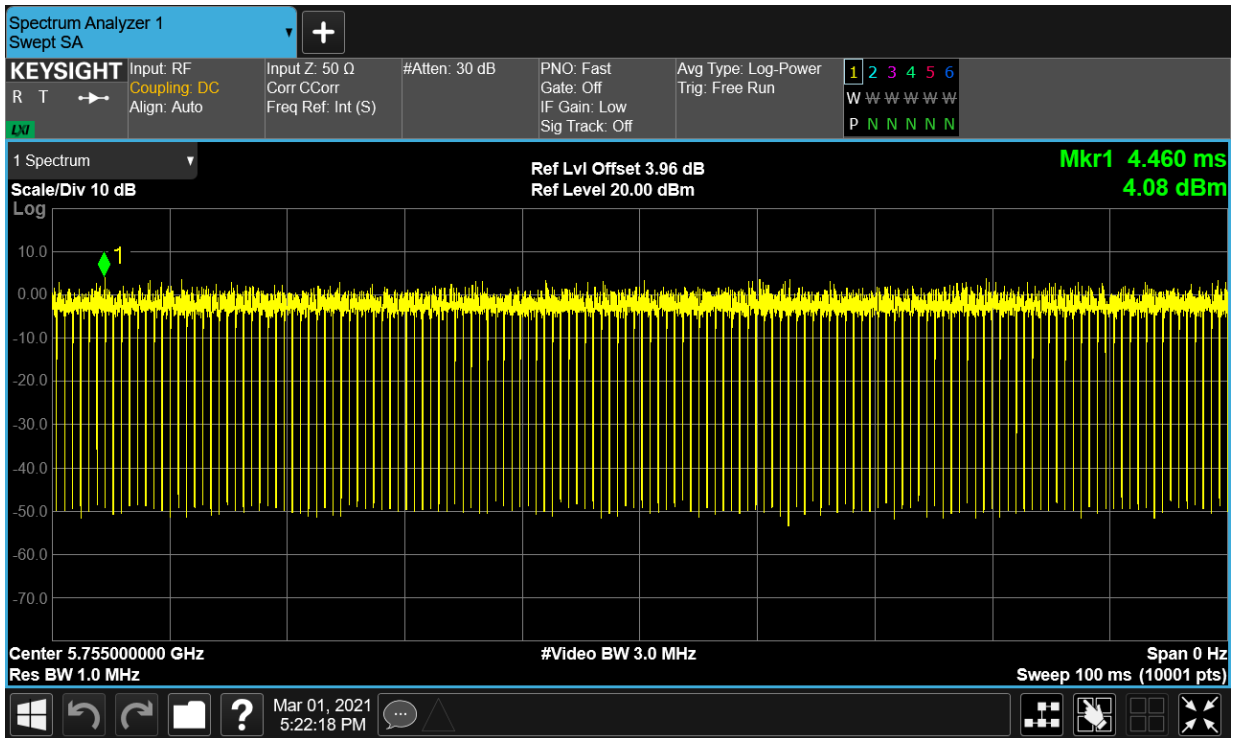
Duty Cycle NVNT n20 5785MHz Ant1



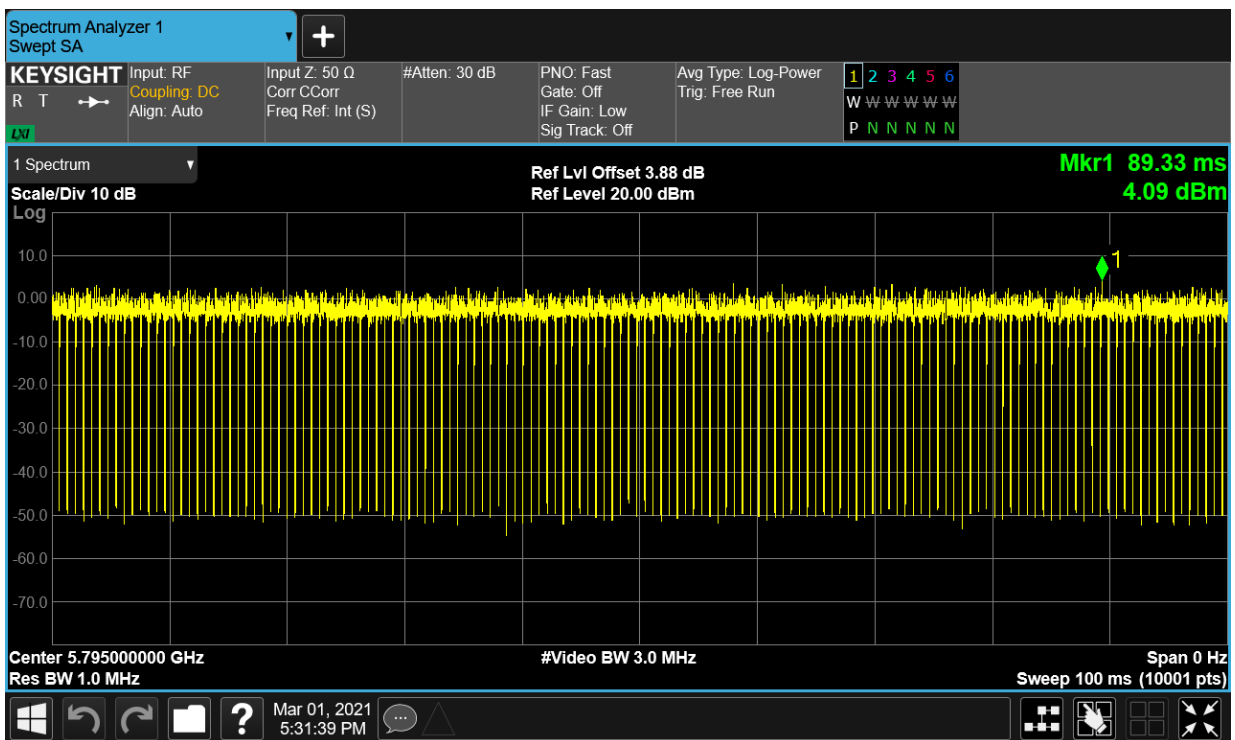
Duty Cycle NVNT n20 5825MHz Ant1



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	11.09	0.1	11.19	30	Pass
NVNT	a	5785	Ant1	11.17	0.1	11.27	30	Pass
NVNT	a	5825	Ant1	10.91	0.1	11.01	30	Pass

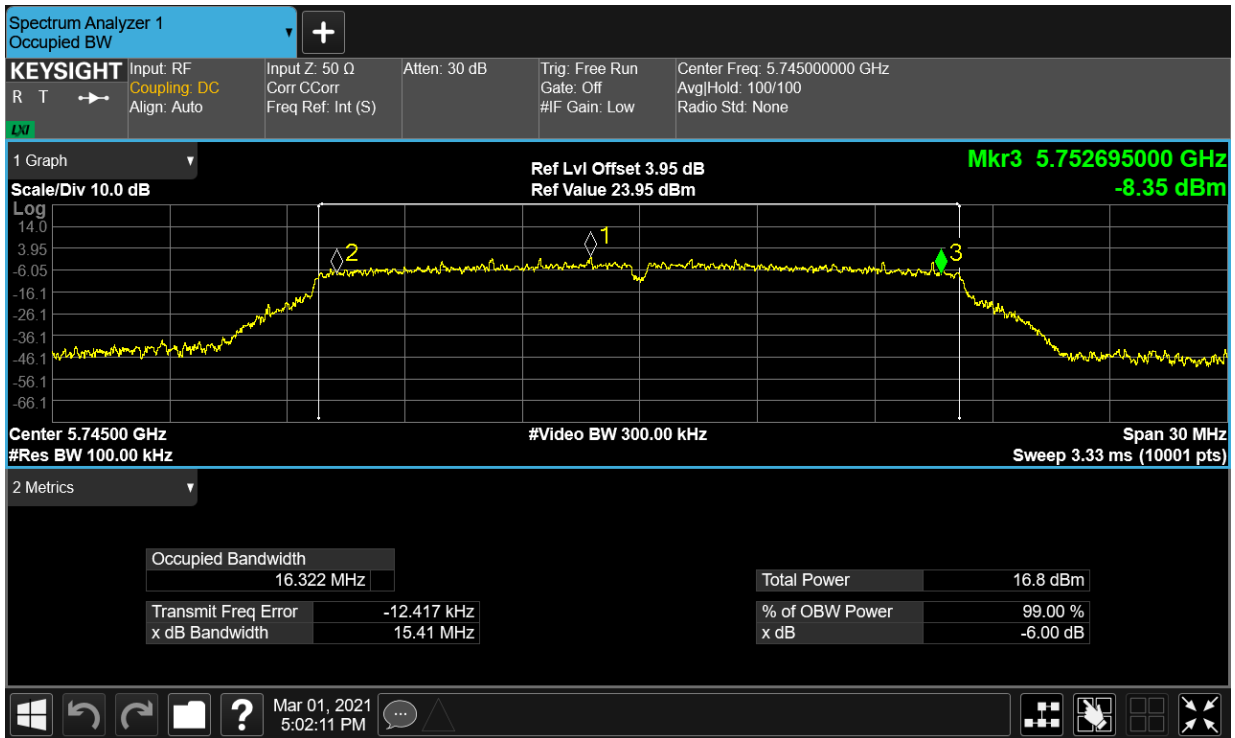


NVNT	ac20	5745	Ant1	10.91	0.1	11.01	30	Pass
NVNT	ac20	5785	Ant1	11.25	0.1	11.35	30	Pass
NVNT	ac20	5825	Ant1	10.82	0.1	10.92	30	Pass
NVNT	ac40	5755	Ant1	10.88	0.21	11.09	30	Pass
NVNT	ac40	5795	Ant1	11.37	0.2	11.57	30	Pass
NVNT	ac80	5775	Ant1	9	0.4	9.4	30	Pass
NVNT	n20	5745	Ant1	10.96	0.1	11.06	30	Pass
NVNT	n20	5785	Ant1	12.14	0.11	12.25	30	Pass
NVNT	n20	5825	Ant1	10.81	0.11	10.92	30	Pass
NVNT	n40	5755	Ant1	10.97	0.21	11.18	30	Pass
NVNT	n40	5795	Ant1	11.34	0.21	11.55	30	Pass

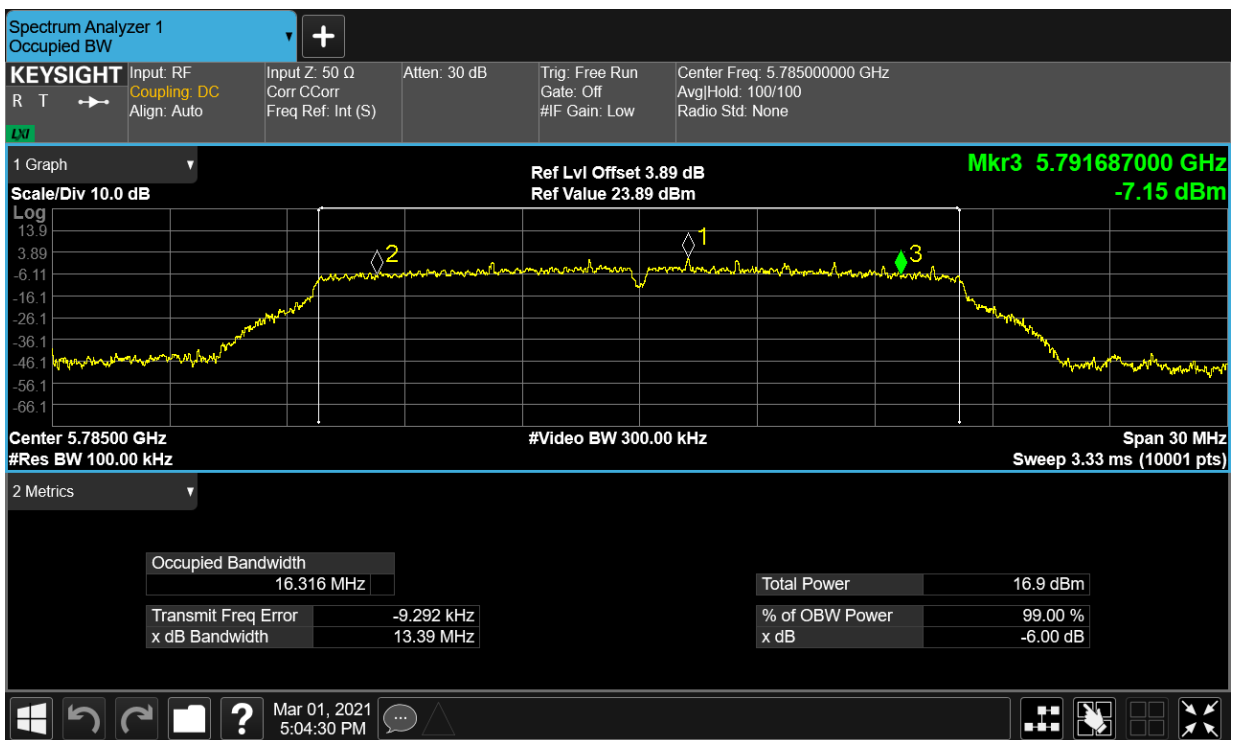
**-6dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.414	0.5	Pass
NVNT	a	5785	Ant1	13.393	0.5	Pass
NVNT	a	5825	Ant1	14.097	0.5	Pass
NVNT	ac20	5745	Ant1	15.08	0.5	Pass
NVNT	ac20	5785	Ant1	15.09	0.5	Pass
NVNT	ac20	5825	Ant1	15.066	0.5	Pass
NVNT	ac40	5755	Ant1	35.038	0.5	Pass
NVNT	ac40	5795	Ant1	35.098	0.5	Pass
NVNT	ac80	5775	Ant1	75.106	0.5	Pass
NVNT	n20	5745	Ant1	16.31	0.5	Pass
NVNT	n20	5785	Ant1	14.046	0.5	Pass
NVNT	n20	5825	Ant1	15.446	0.5	Pass
NVNT	n40	5755	Ant1	33.829	0.5	Pass
NVNT	n40	5795	Ant1	35.046	0.5	Pass

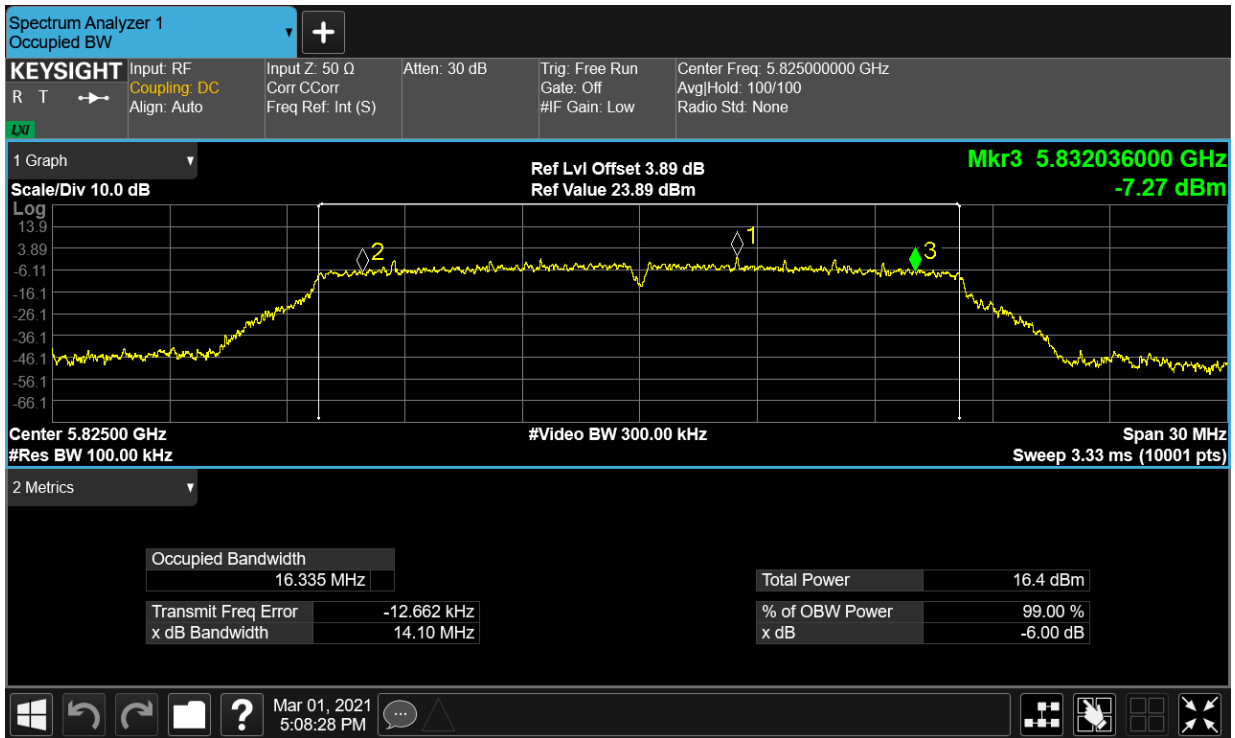
-6dB Bandwidth NVNT a 5745MHz Ant1



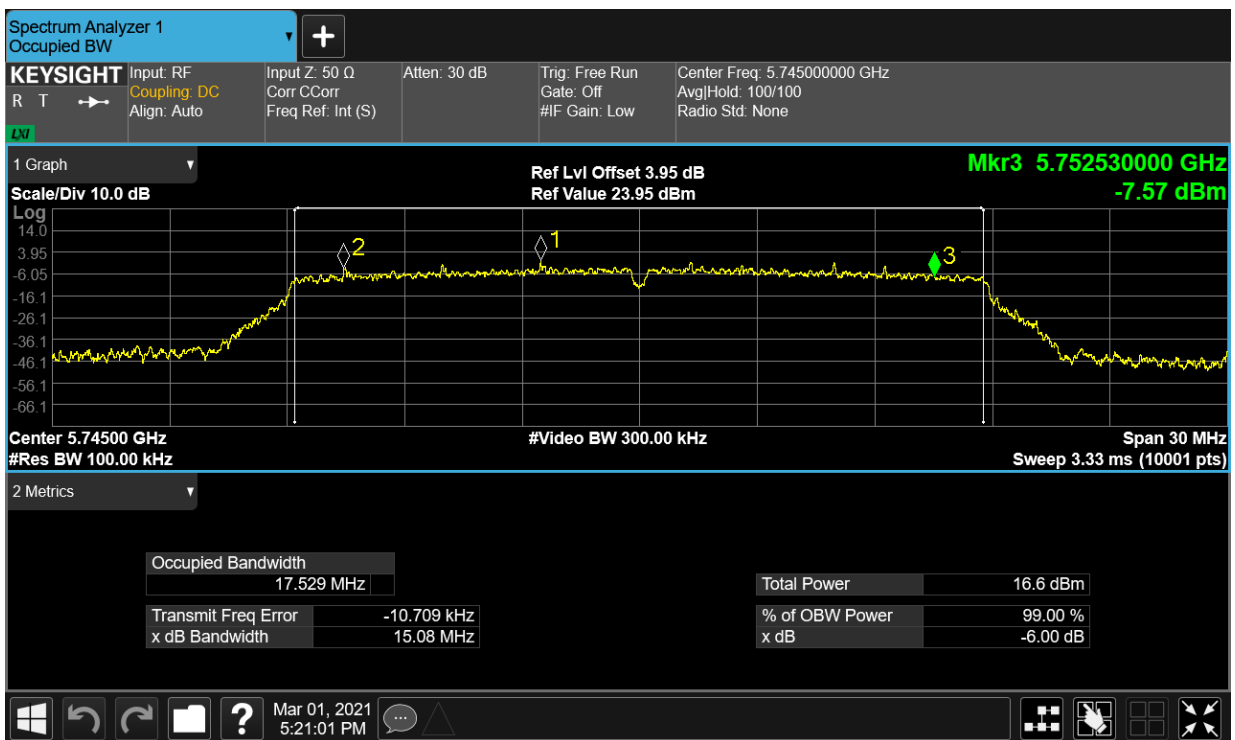
-6dB Bandwidth NVNT a 5785MHz Ant1



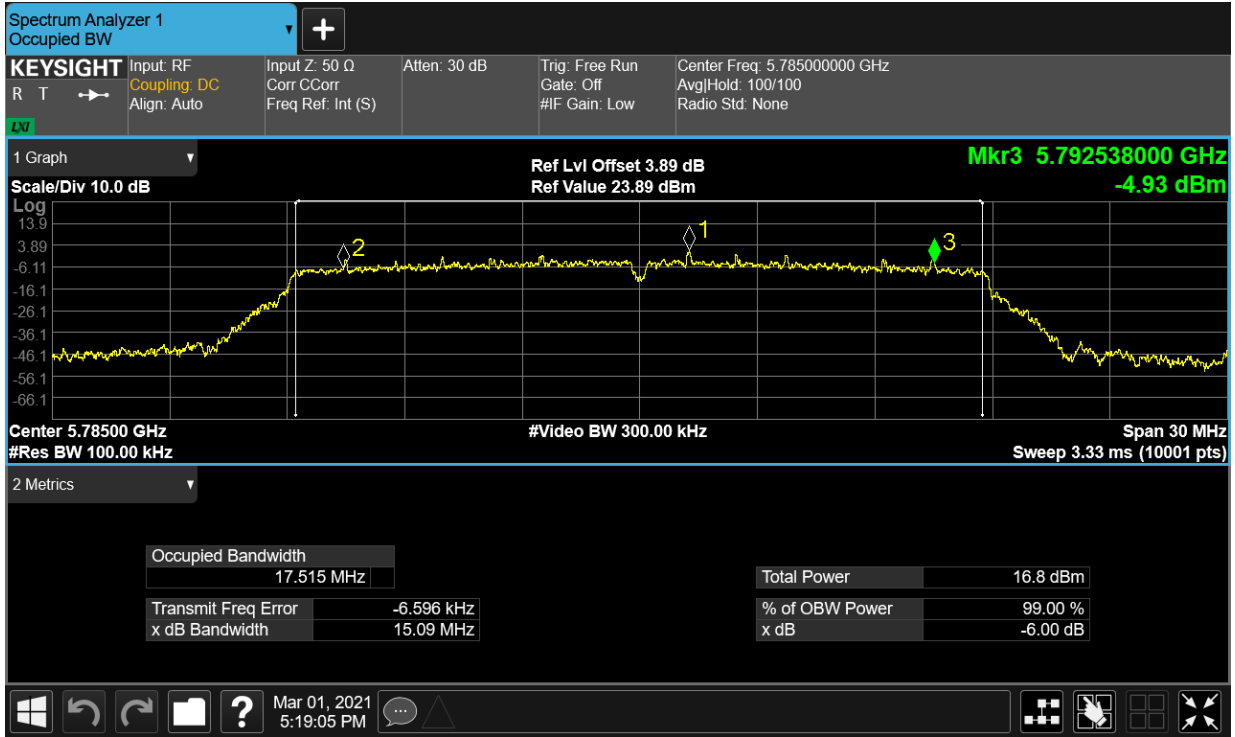
-6dB Bandwidth NVNT a 5825MHz Ant1



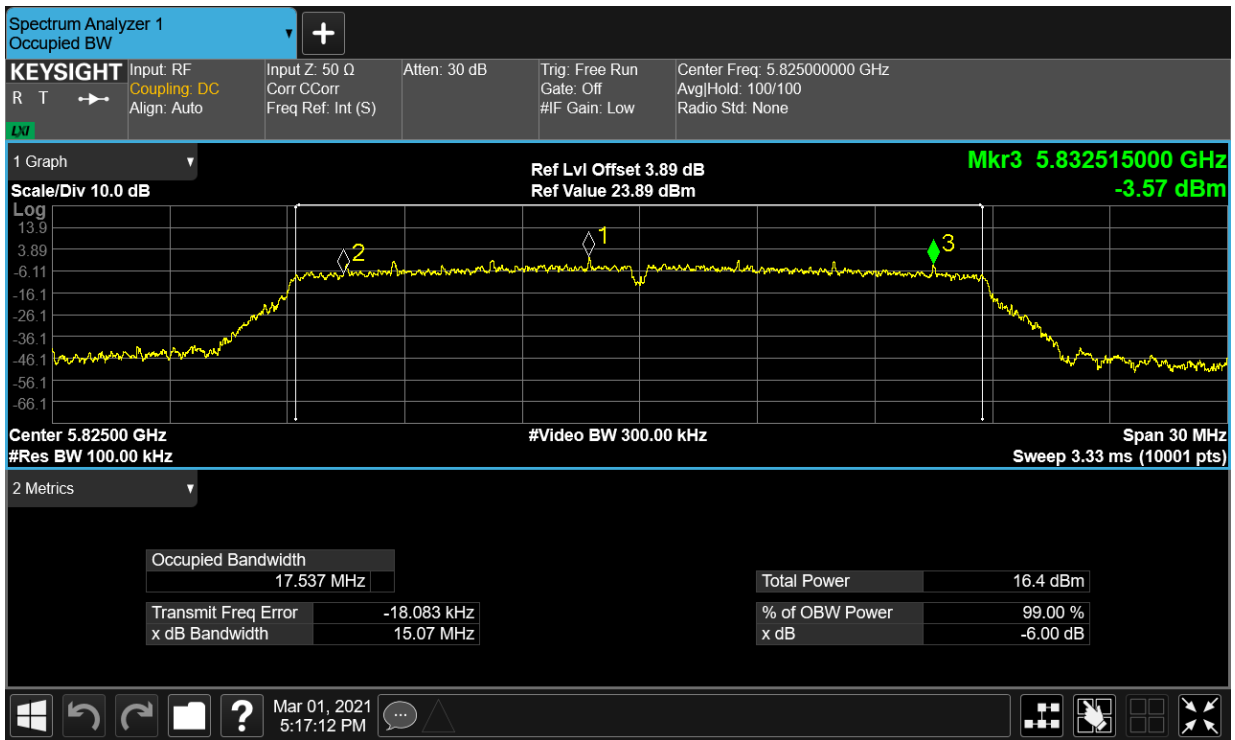
-6dB Bandwidth NVNT ac20 5745MHz Ant1



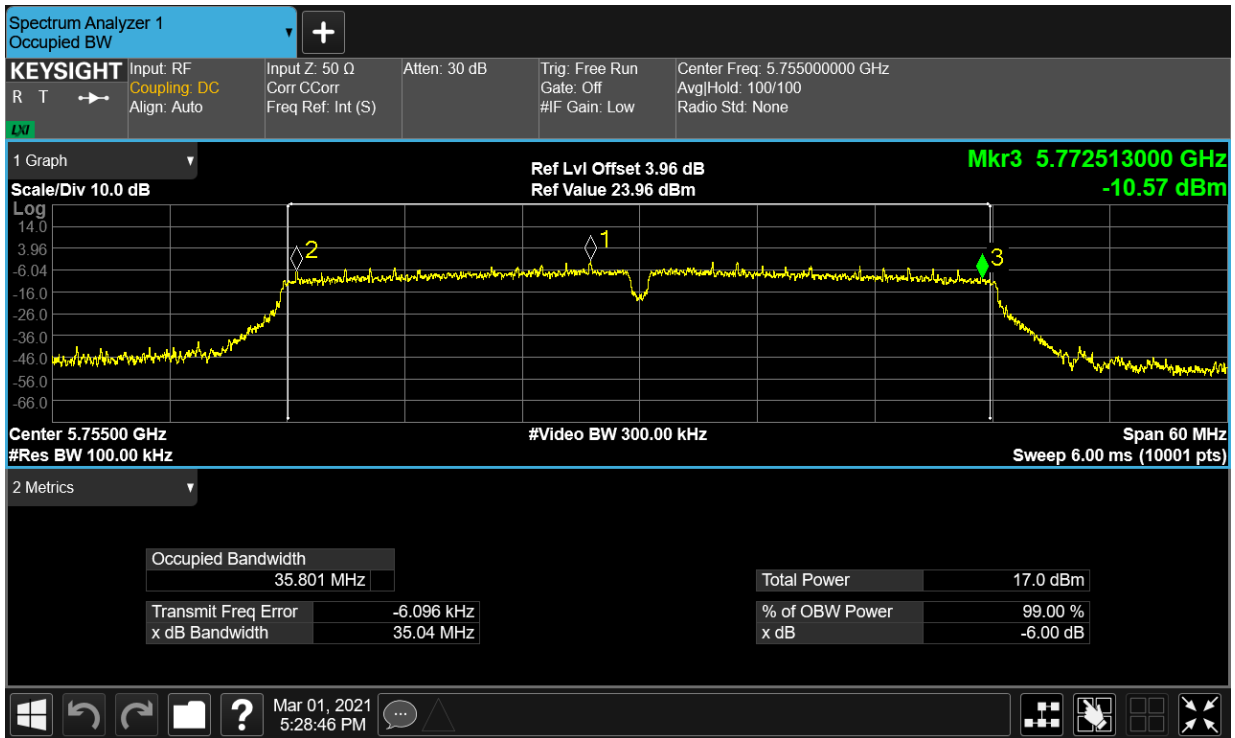
-6dB Bandwidth NVNT ac20 5785MHz Ant1



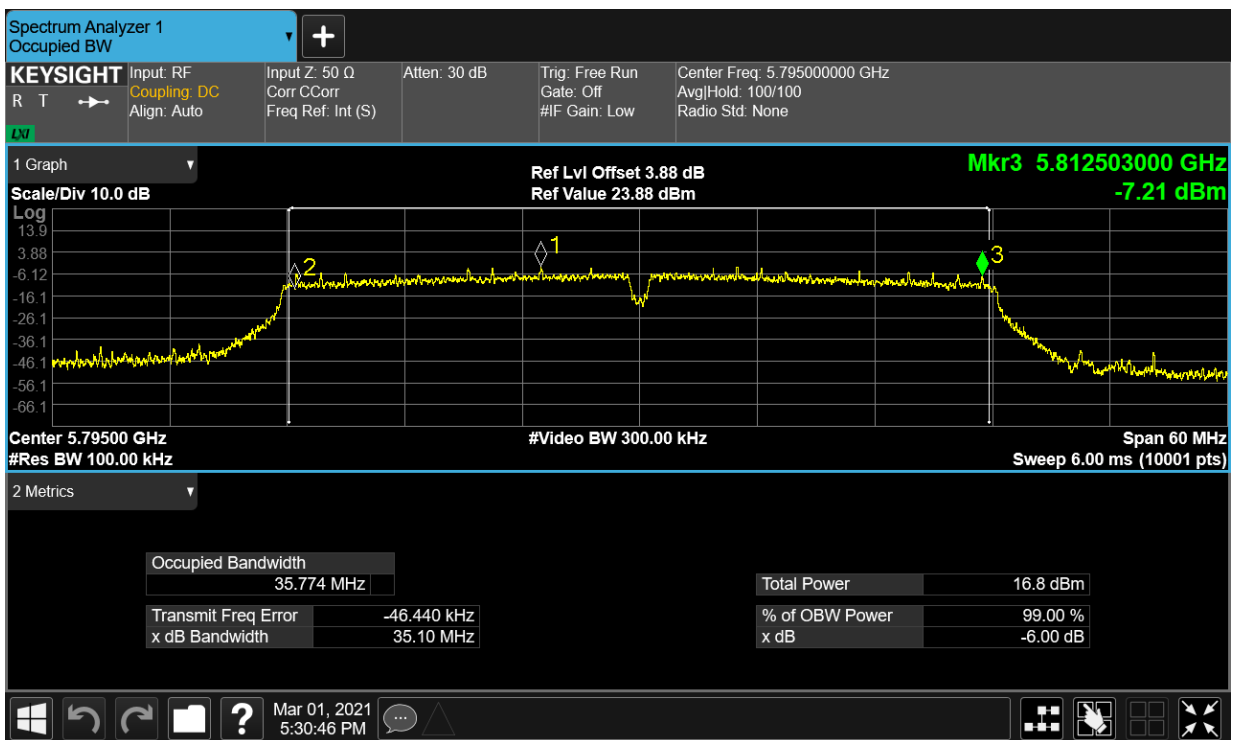
-6dB Bandwidth NVNT ac20 5825MHz Ant1



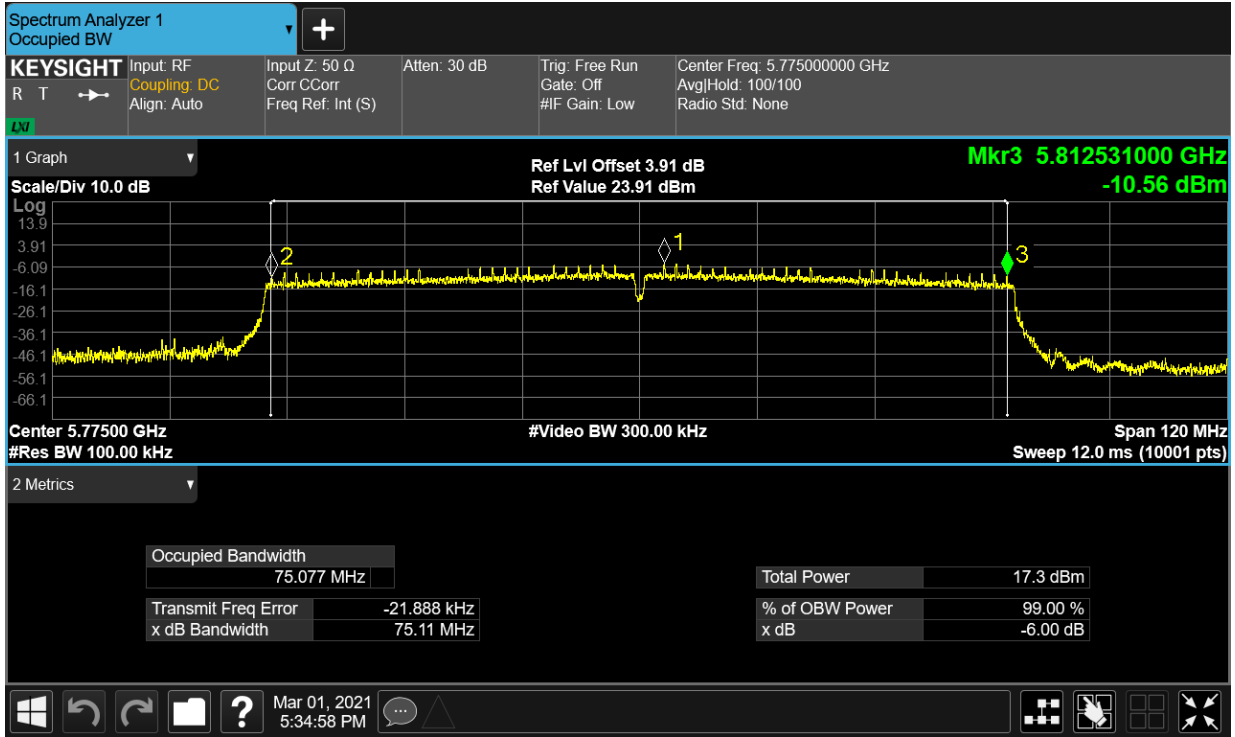
-6dB Bandwidth NVNT ac40 5755MHz Ant1



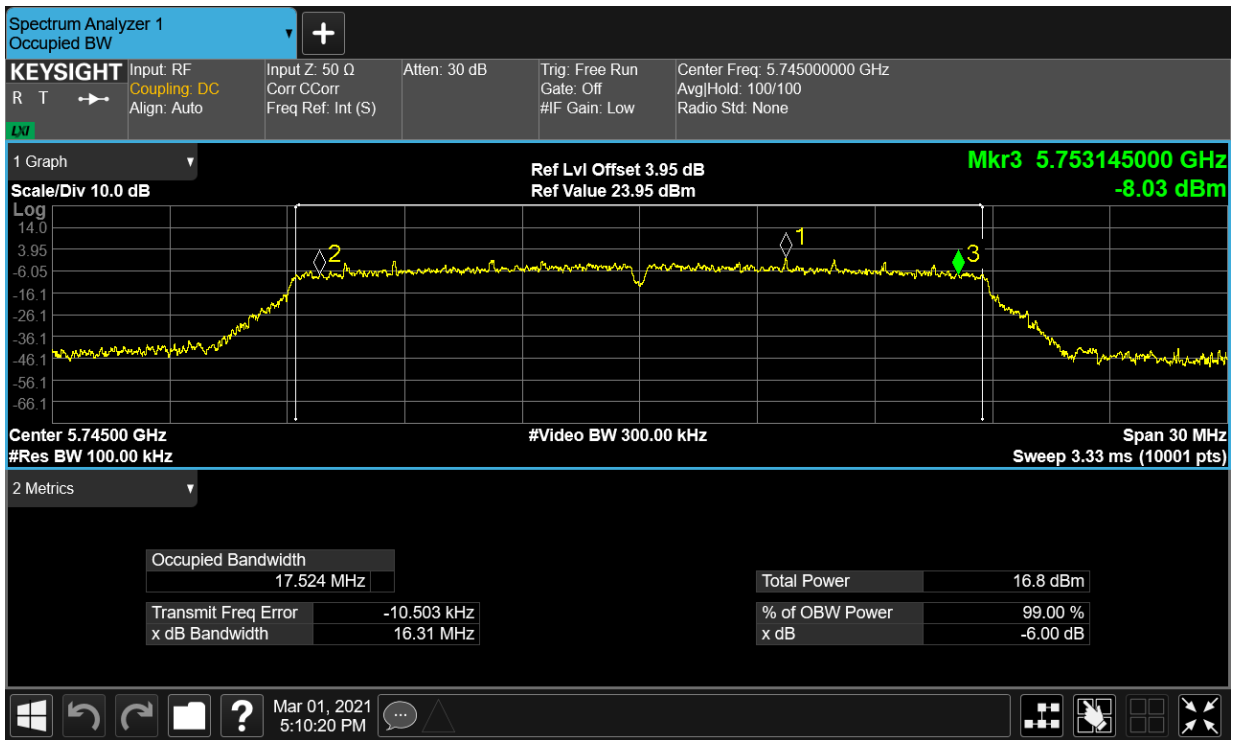
-6dB Bandwidth NVNT ac40 5795MHz Ant1



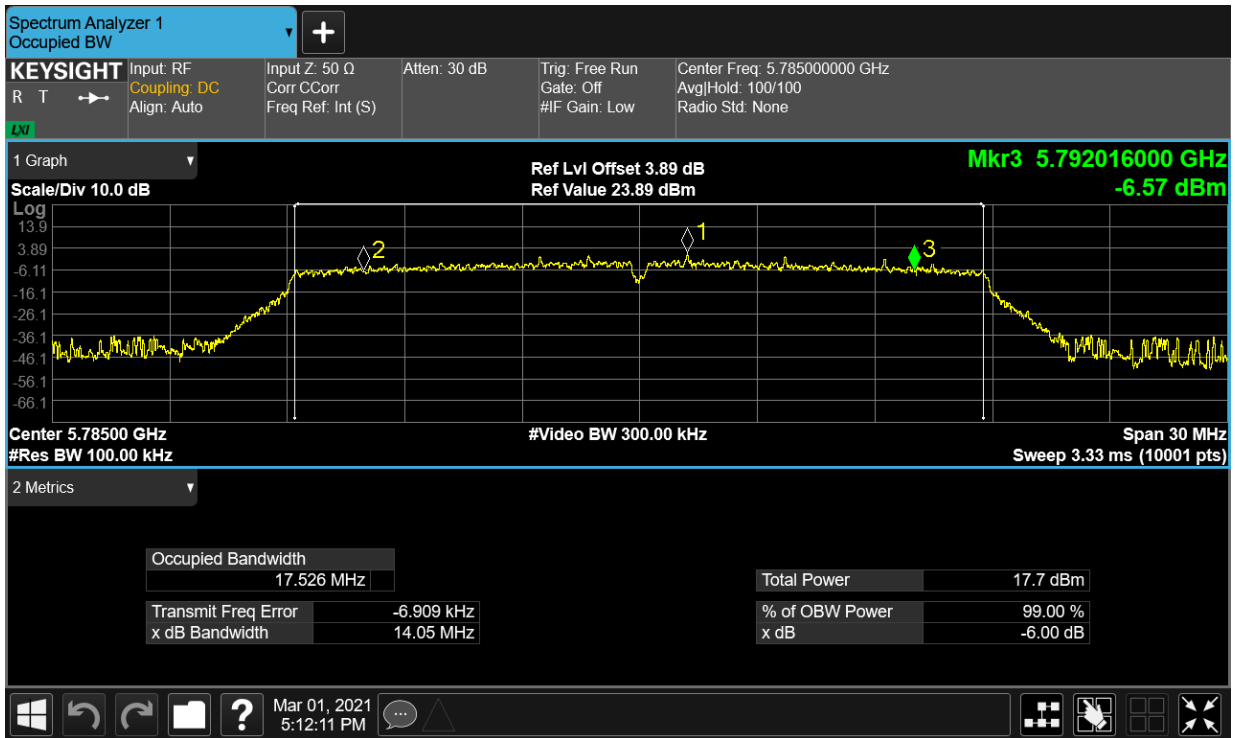
-6dB Bandwidth NVNT ac80 5775MHz Ant1



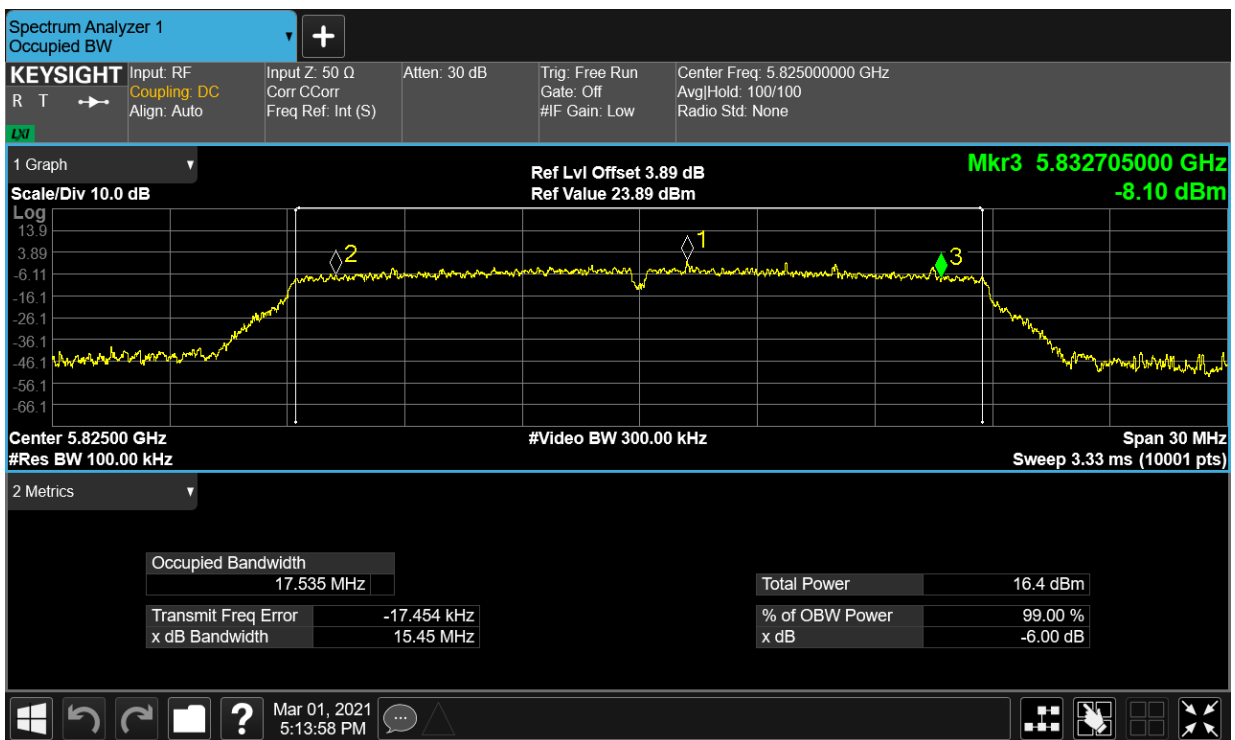
-6dB Bandwidth NVNT n20 5745MHz Ant1



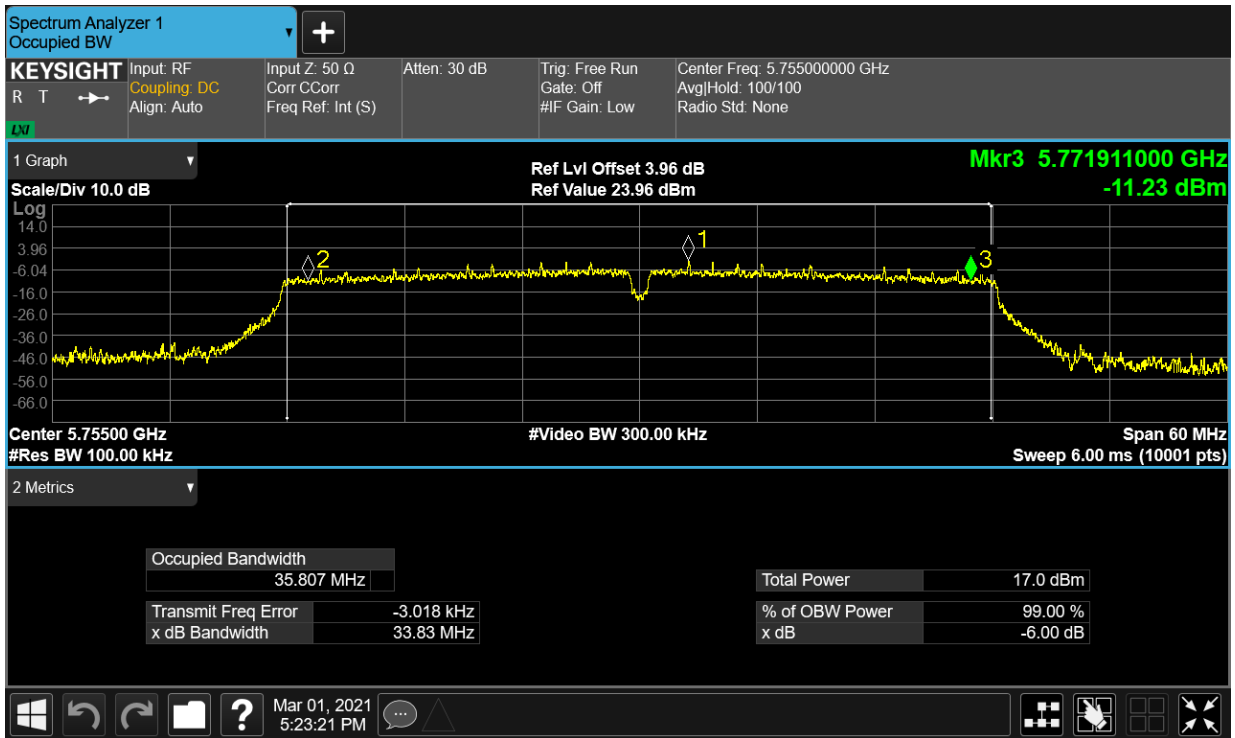
-6dB Bandwidth NVNT n20 5785MHz Ant1



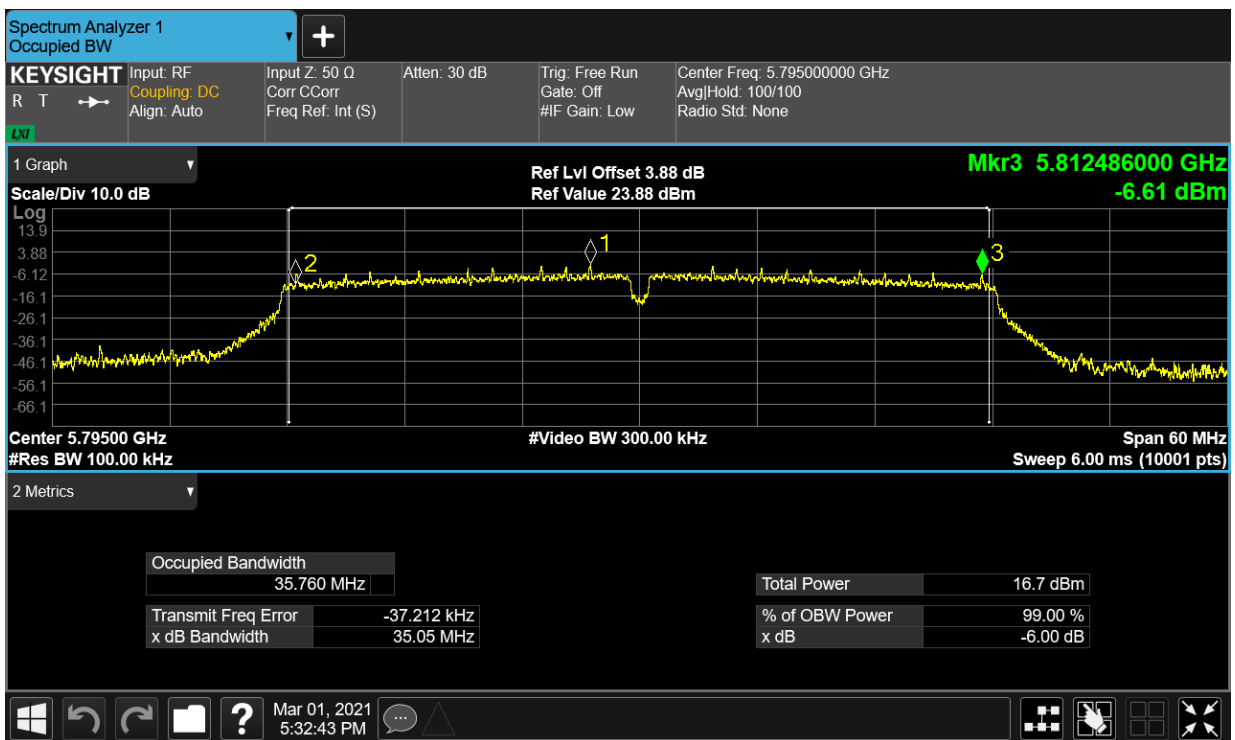
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



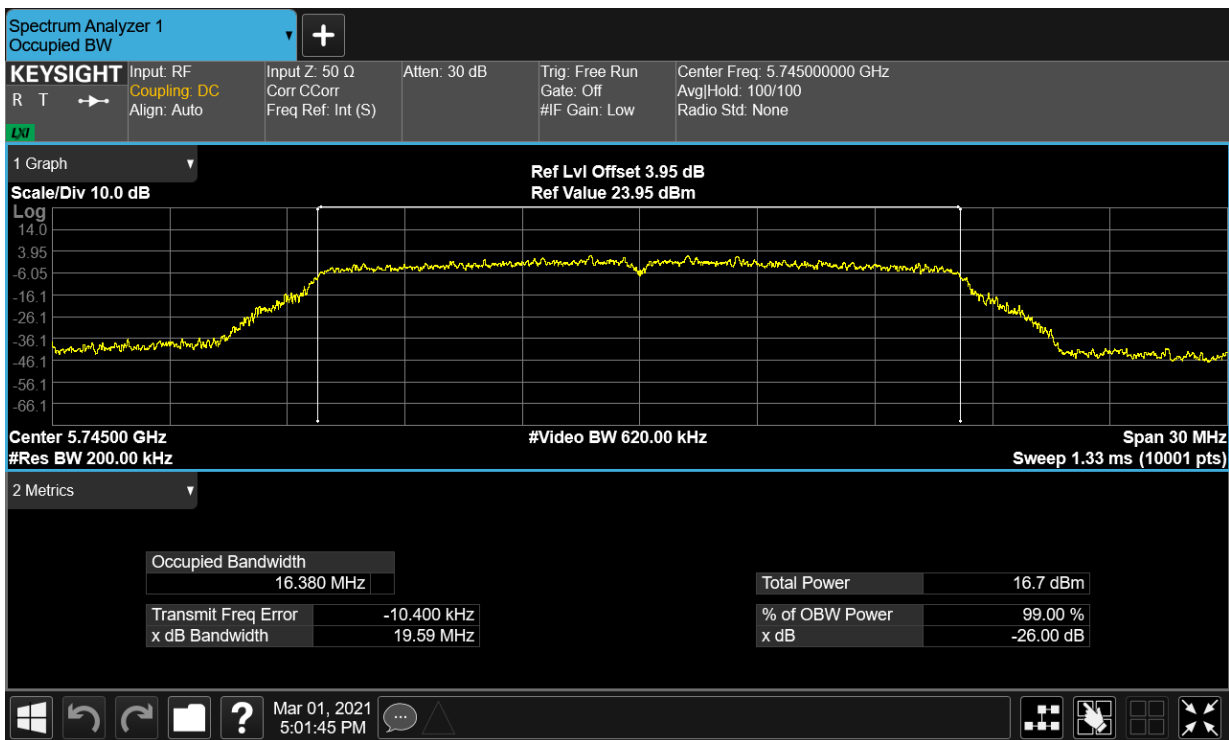
**Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.38002403
NVNT	a	5785	Ant1	16.39769173
NVNT	a	5825	Ant1	16.37378016
NVNT	ac20	5745	Ant1	17.53290635

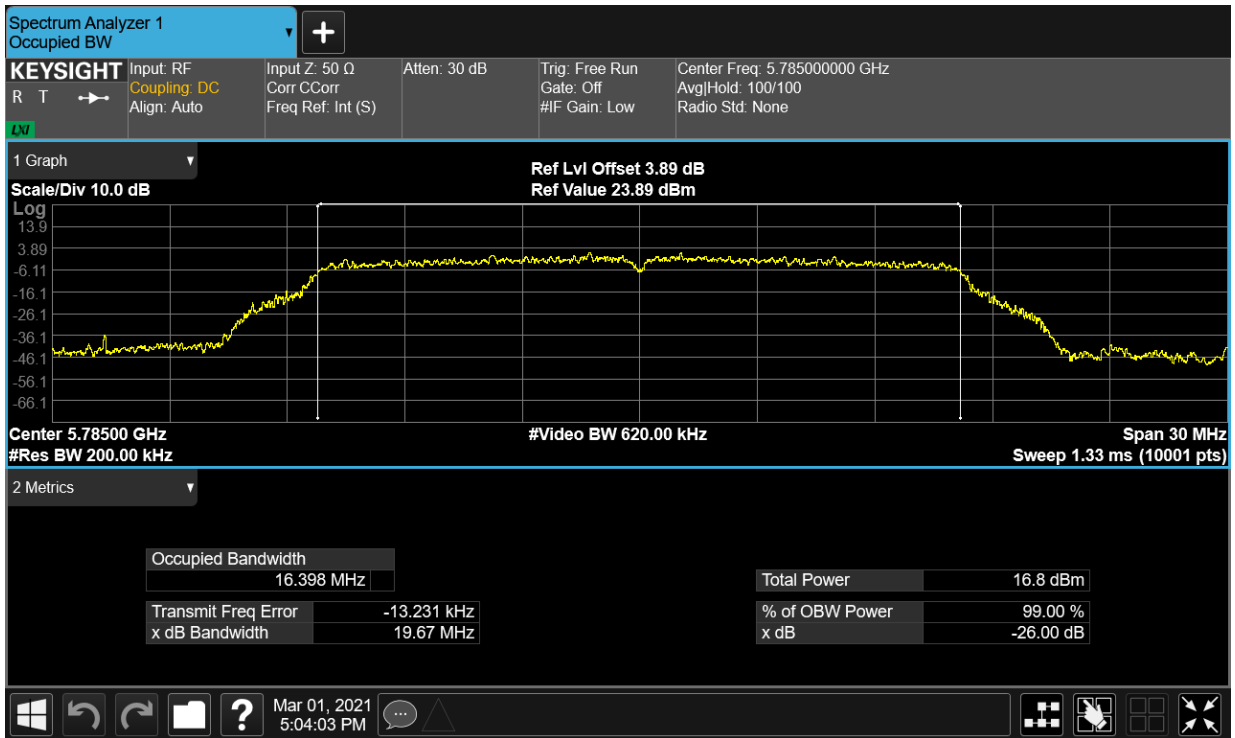


NVNT	ac20	5785	Ant1	17.51415443
NVNT	ac20	5825	Ant1	17.53797314
NVNT	ac40	5755	Ant1	35.95790376
NVNT	ac40	5795	Ant1	35.91745949
NVNT	ac80	5775	Ant1	75.08847608
NVNT	n20	5745	Ant1	17.53159296
NVNT	n20	5785	Ant1	17.54151428
NVNT	n20	5825	Ant1	17.5451193
NVNT	n40	5755	Ant1	35.90858083
NVNT	n40	5795	Ant1	35.89788884

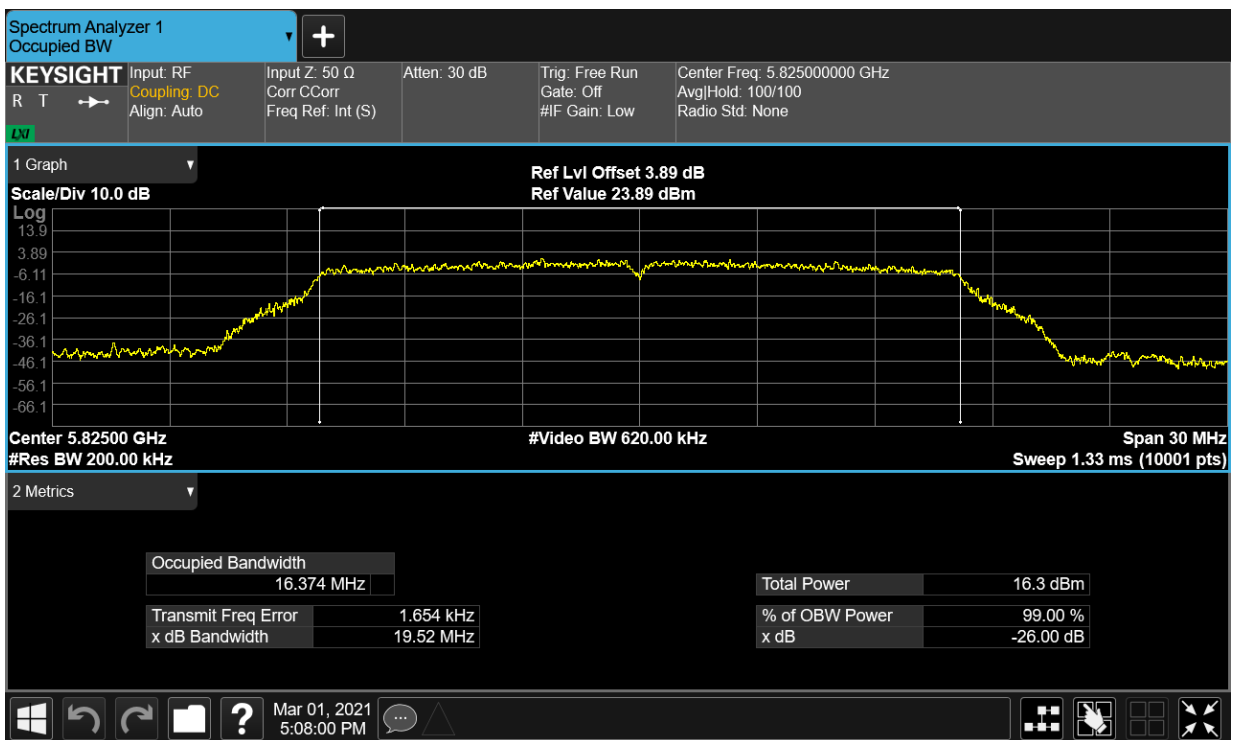
OBW NVNT a 5745MHz Ant1



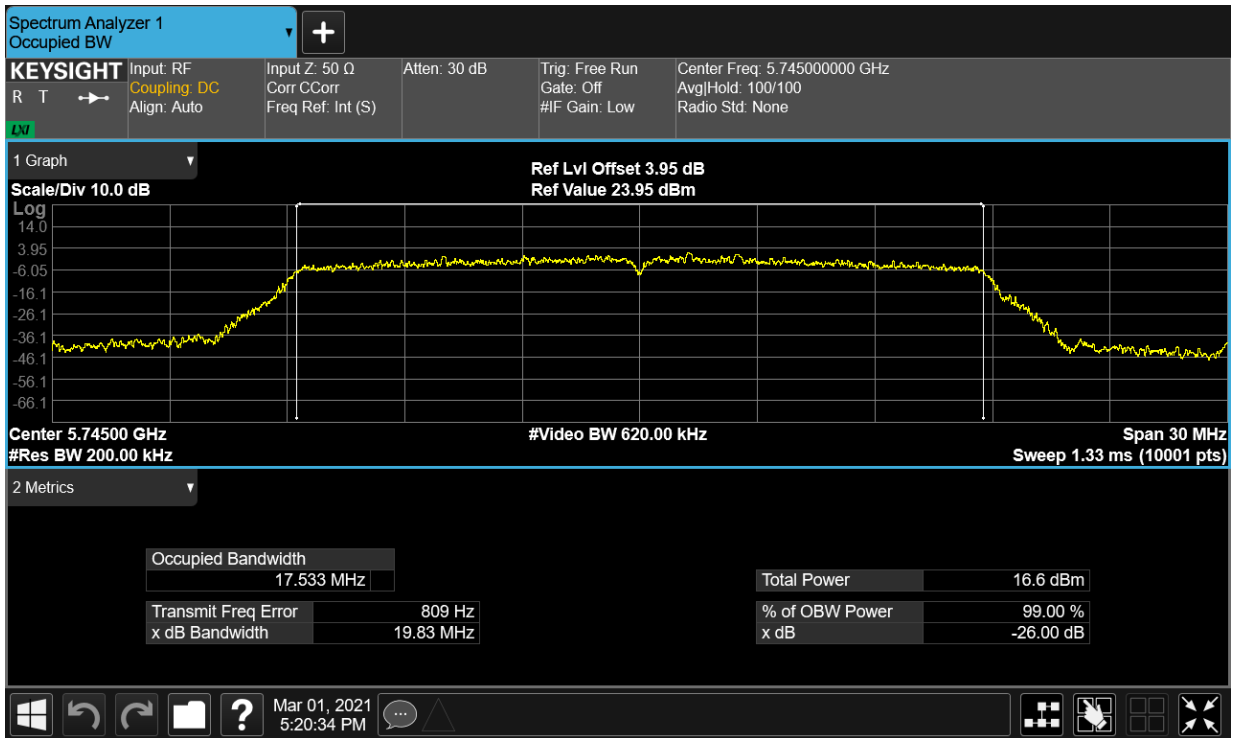
OBW NVNT a 5785MHz Ant1



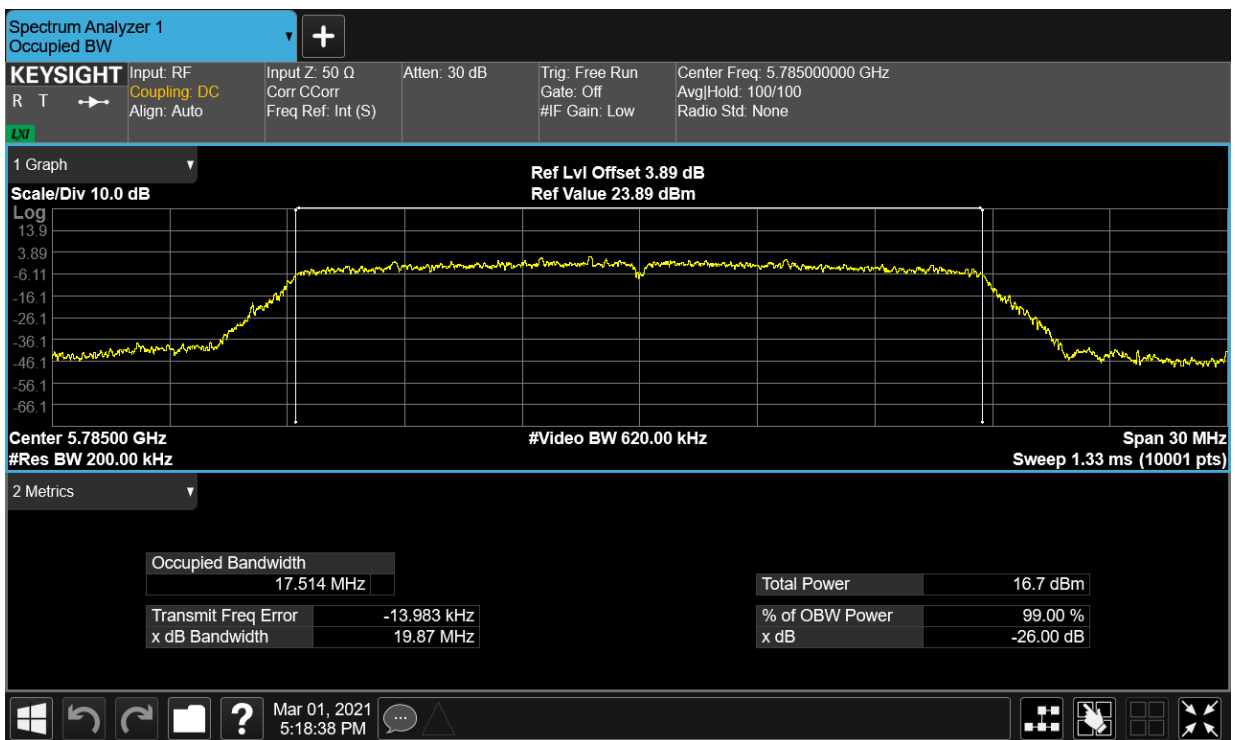
OBW NVNT a 5825MHz Ant1



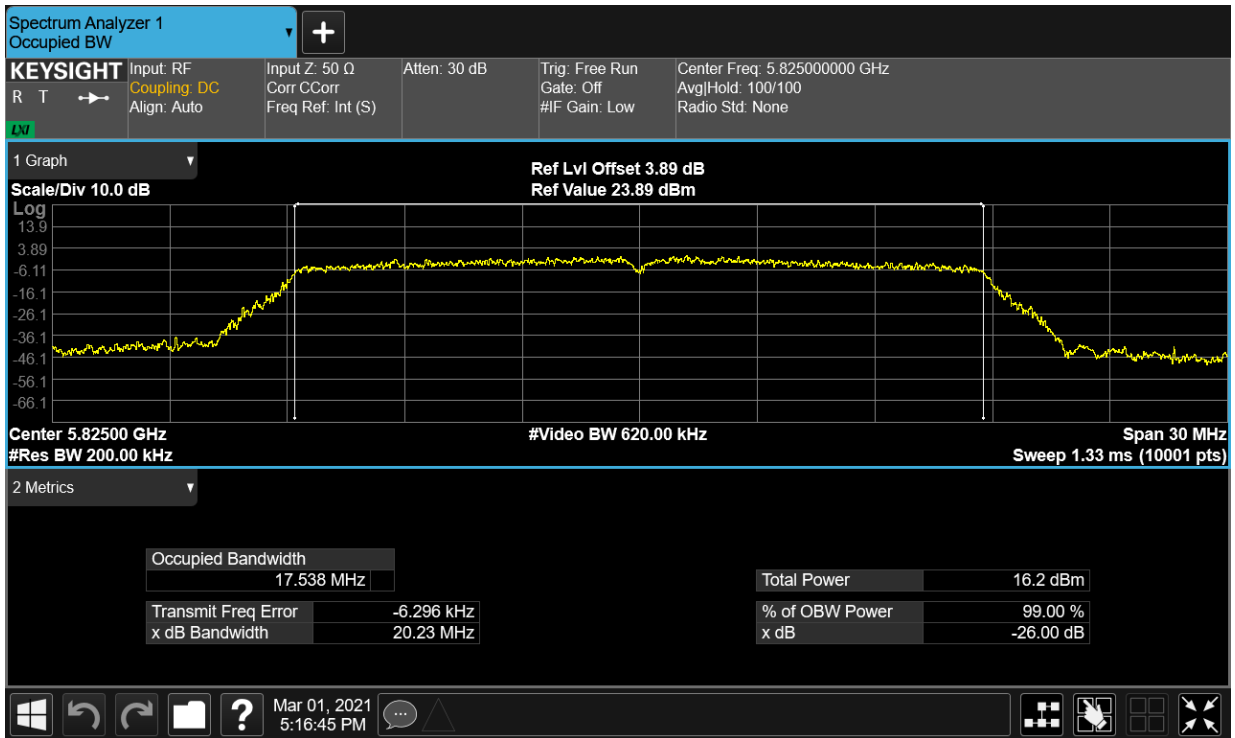
OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



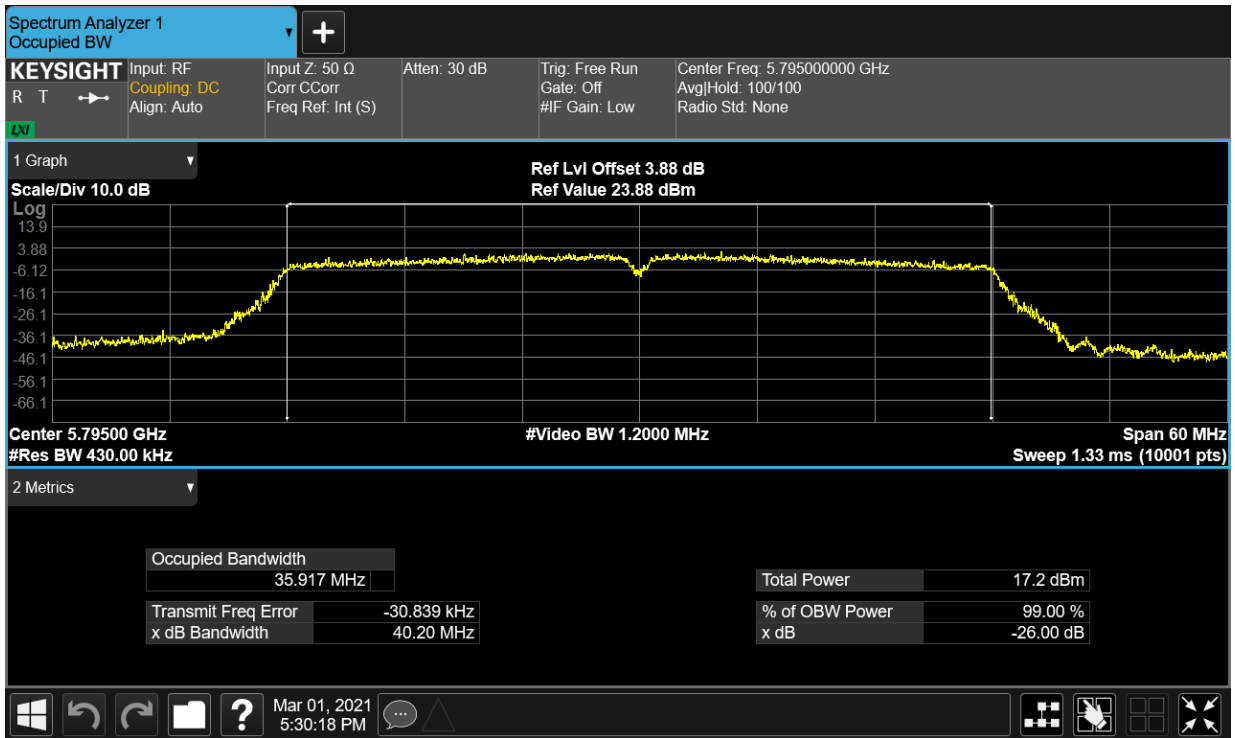
OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac40 5755MHz Ant1



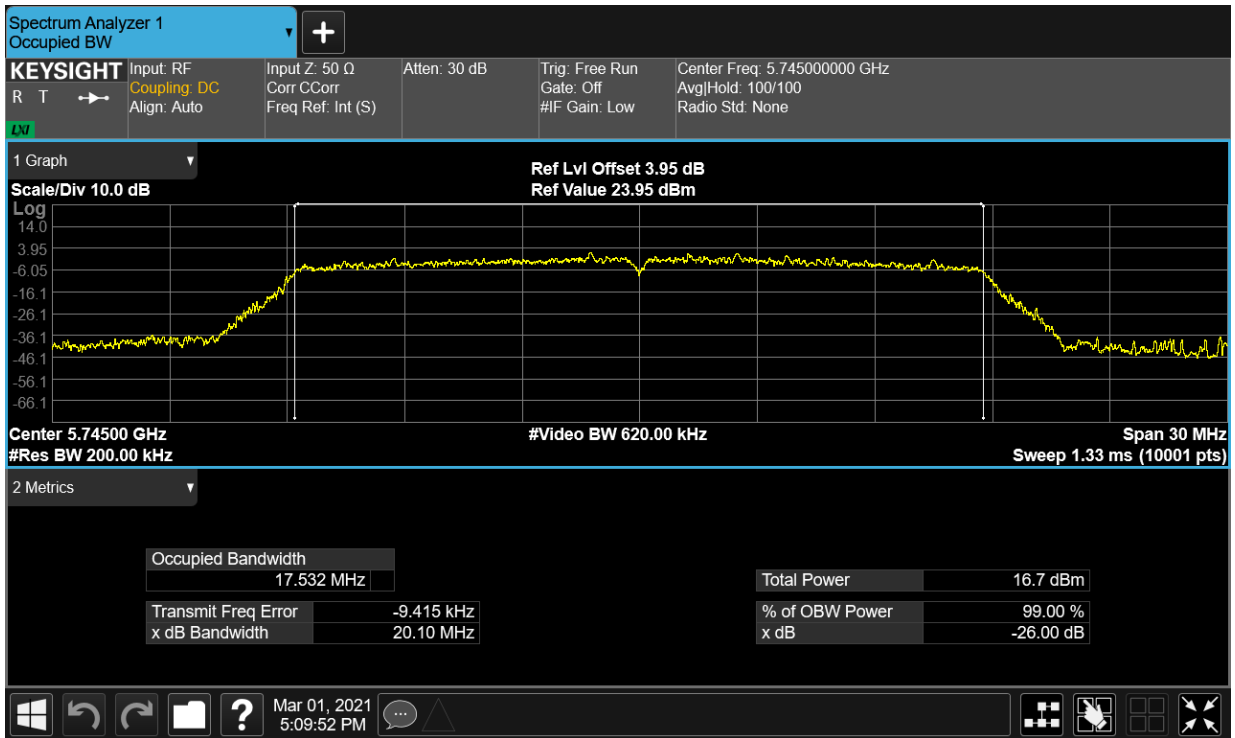
OBW NVNT ac40 5795MHz Ant1



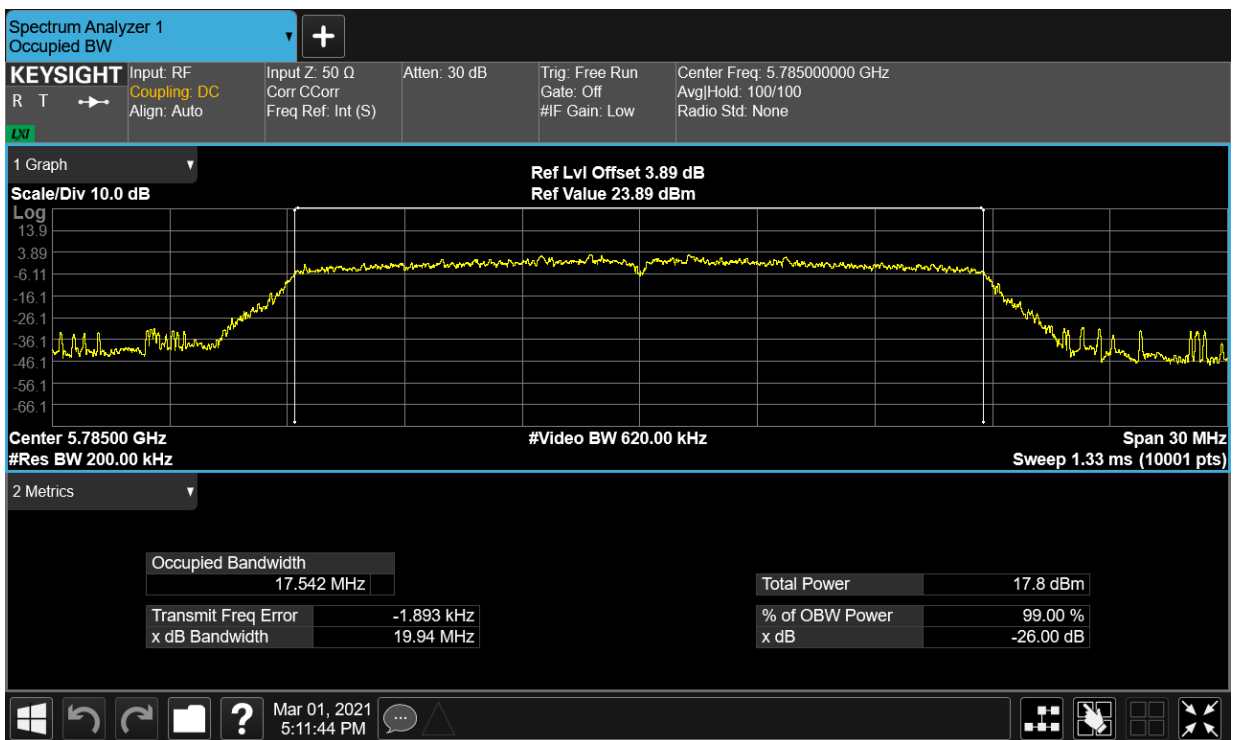
OBW NVNT ac80 5775MHz Ant1



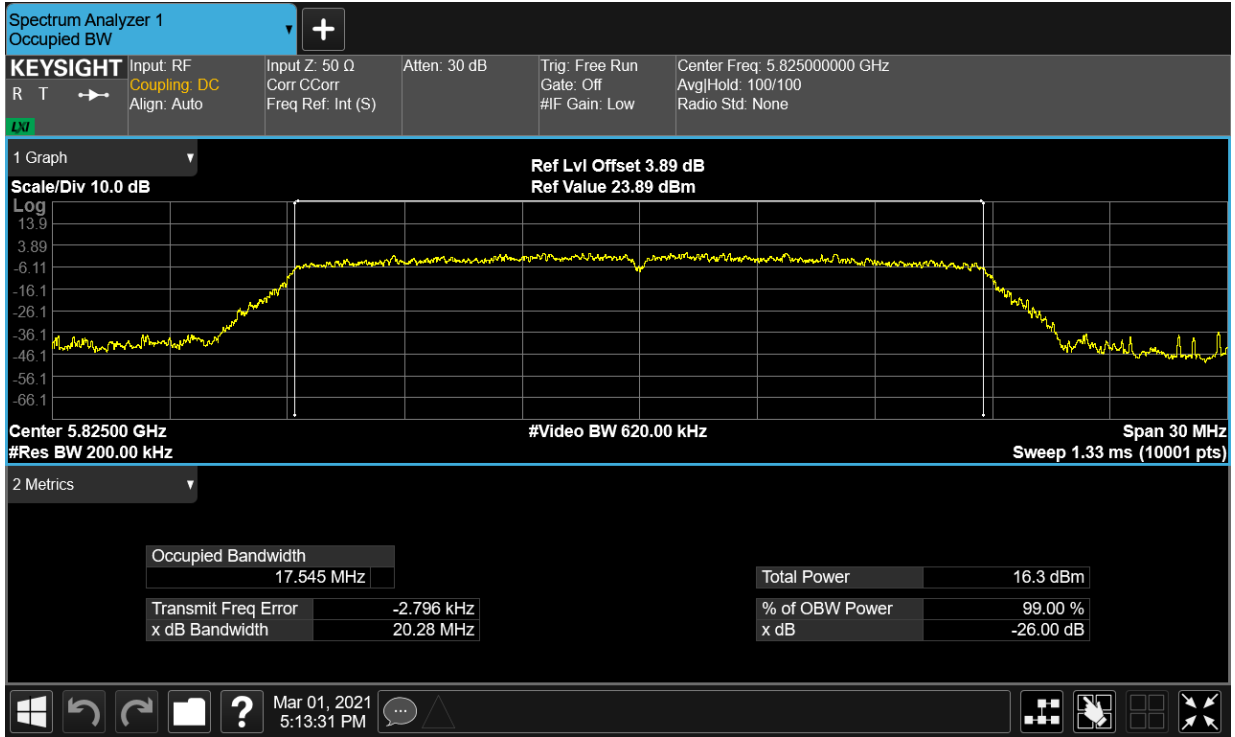
OBW NVNT n20 5745MHz Ant1



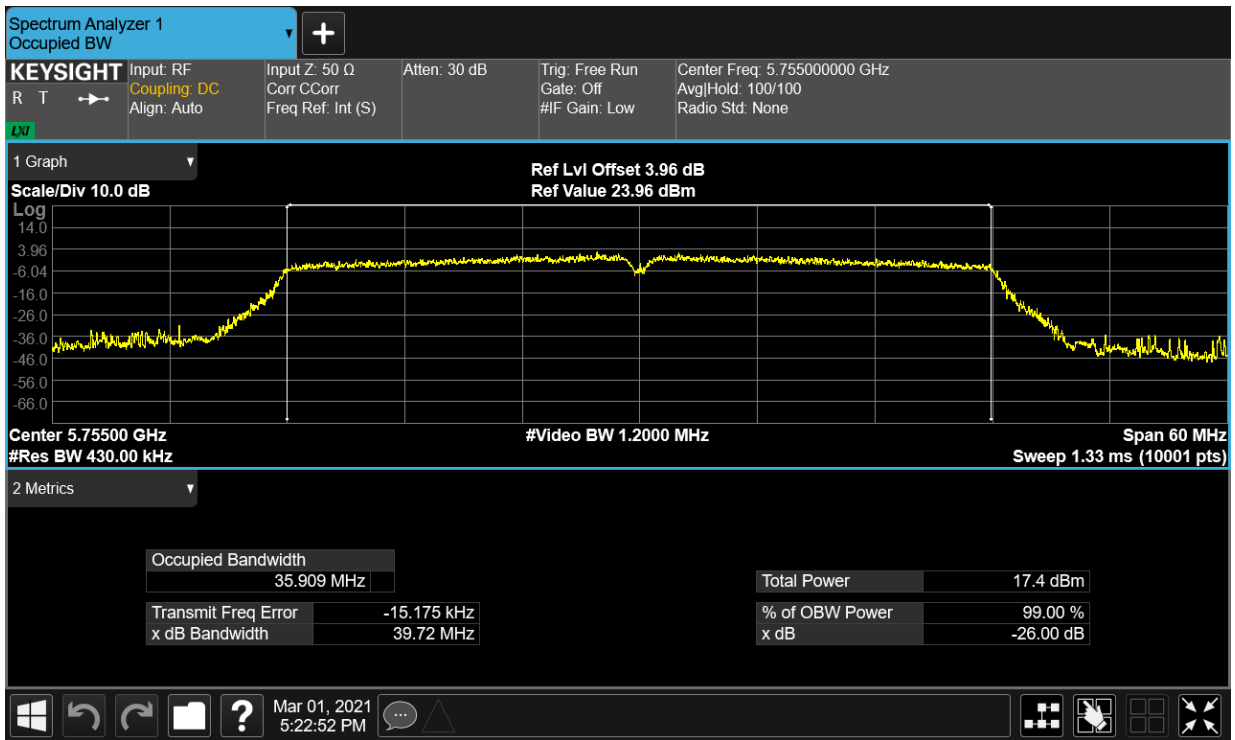
OBW NVNT n20 5785MHz Ant1



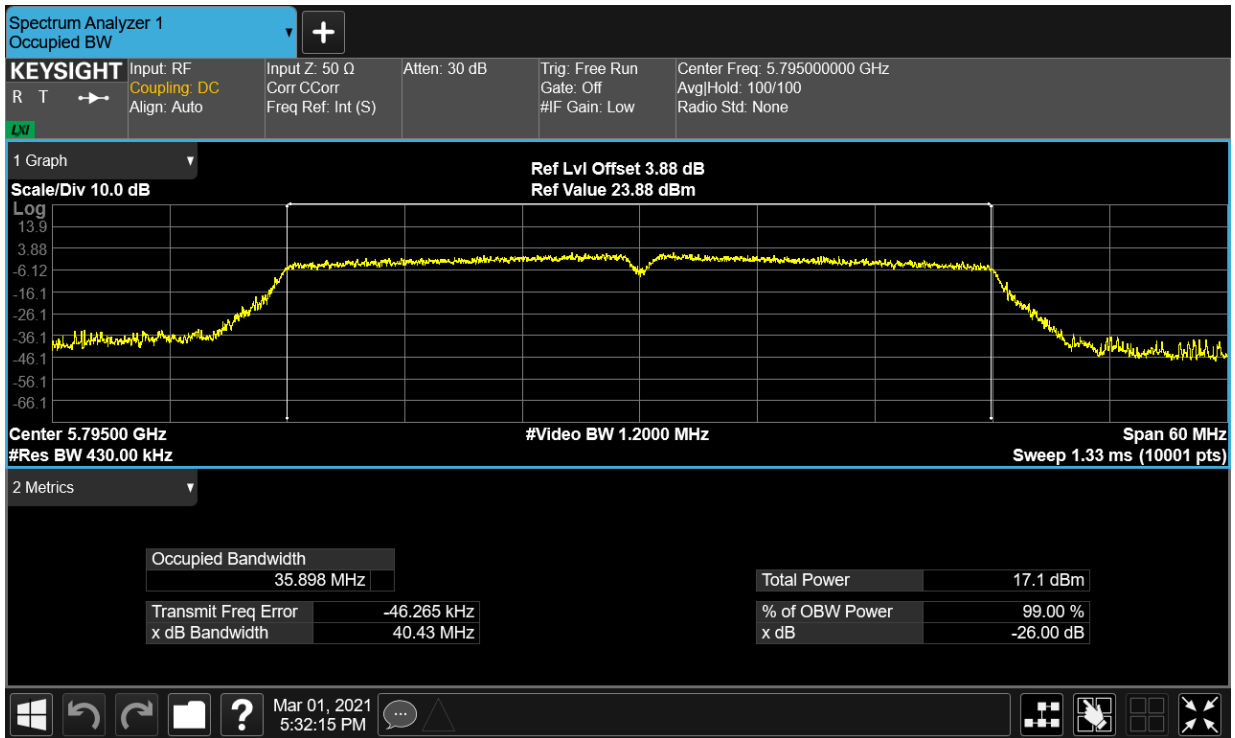
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



**Maximum Power Spectral Density Level**

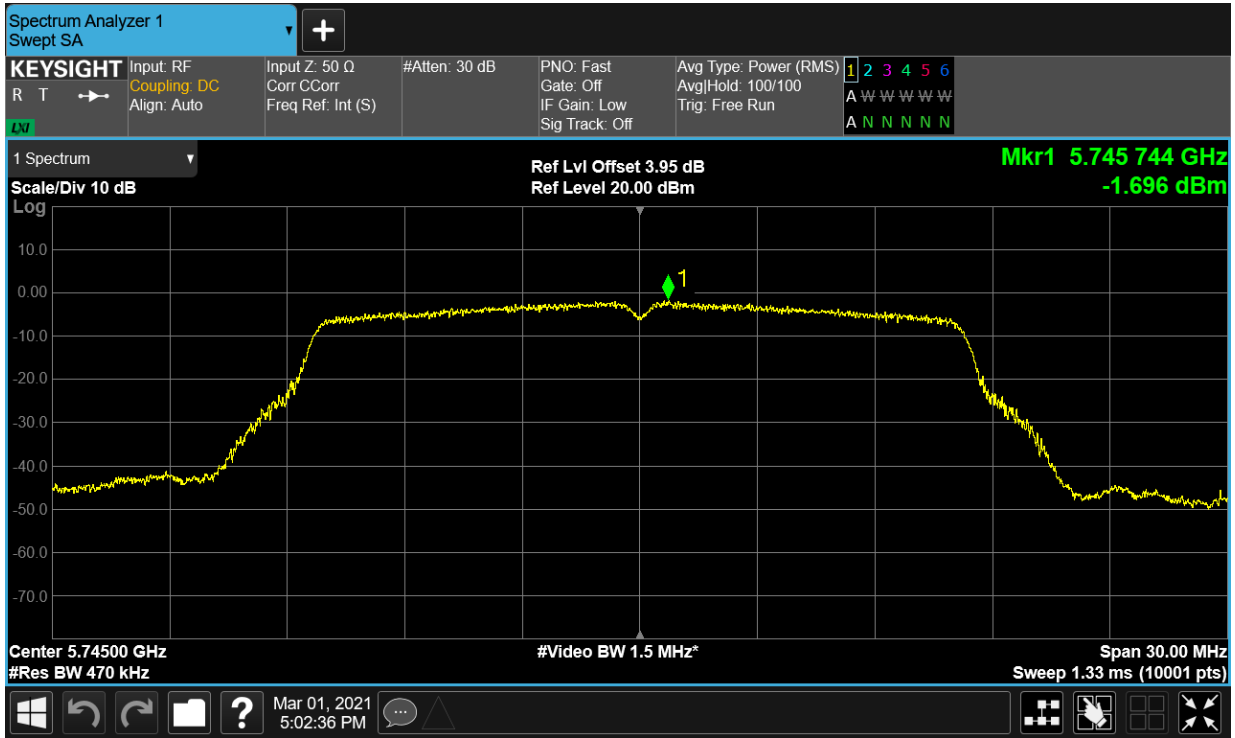
Condition	Mode	Frequency (MHz)	Antenna	Conducted Max PSD (dBm)	correction factor	Total Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-1.696	0.269	-1.427	30	Pass
NVNT	a	5785	Ant1	-1.711	0.269	-1.442	30	Pass
NVNT	a	5825	Ant1	-2.241	0.269	-1.972	30	Pass
NVNT	ac20	5745	Ant1	-2.34	0.269	-2.071	30	Pass
NVNT	ac20	5785	Ant1	-2.161	0.269	-1.892	30	Pass
NVNT	ac20	5825	Ant1	-2.449	0.269	-2.18	30	Pass
NVNT	ac40	5755	Ant1	-4.57	0.269	-4.301	30	Pass
NVNT	ac40	5795	Ant1	-4.877	0.269	-4.608	30	Pass
NVNT	ac80	5775	Ant1	-7.858	0.269	-7.589	30	Pass
NVNT	n20	5745	Ant1	-2.102	0.269	-1.833	30	Pass
NVNT	n20	5785	Ant1	-1.114	0.269	-0.845	30	Pass
NVNT	n20	5825	Ant1	-2.69	0.269	-2.421	30	Pass
NVNT	n40	5755	Ant1	-4.329	0.269	-4.06	30	Pass
NVNT	n40	5795	Ant1	-4.332	0.269	-4.063	30	Pass

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

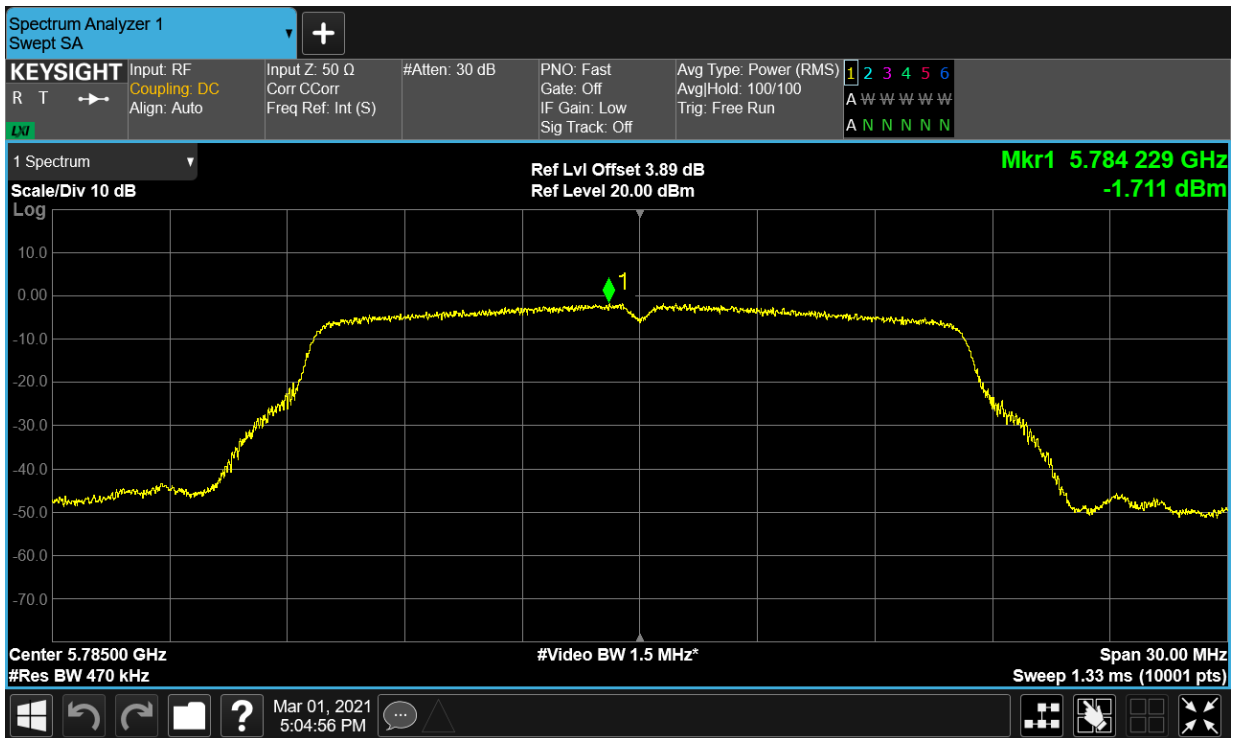
$$\text{Correction factor} = 10 \log (500 \text{ kHz}_{\text{Reference}} / 470 \text{ KHz}_{\text{Measured}}) = 0.269$$



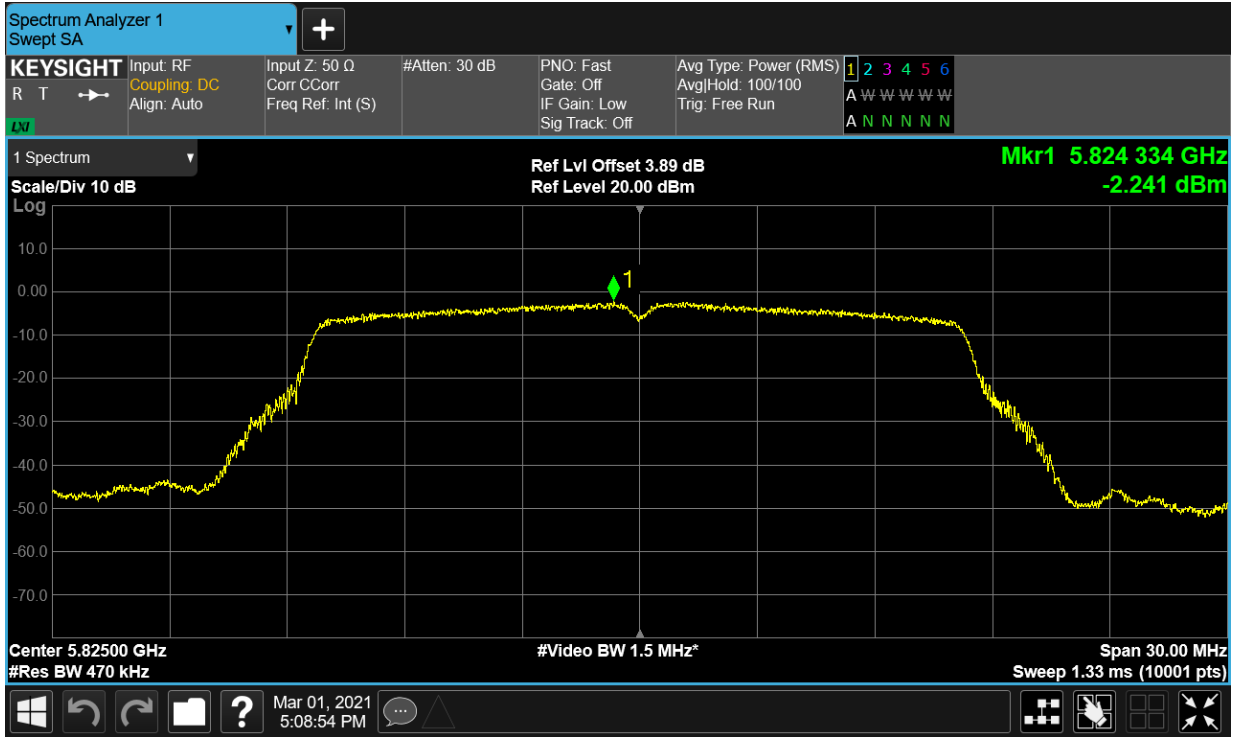
PSD NVNT a 5745MHz Ant1



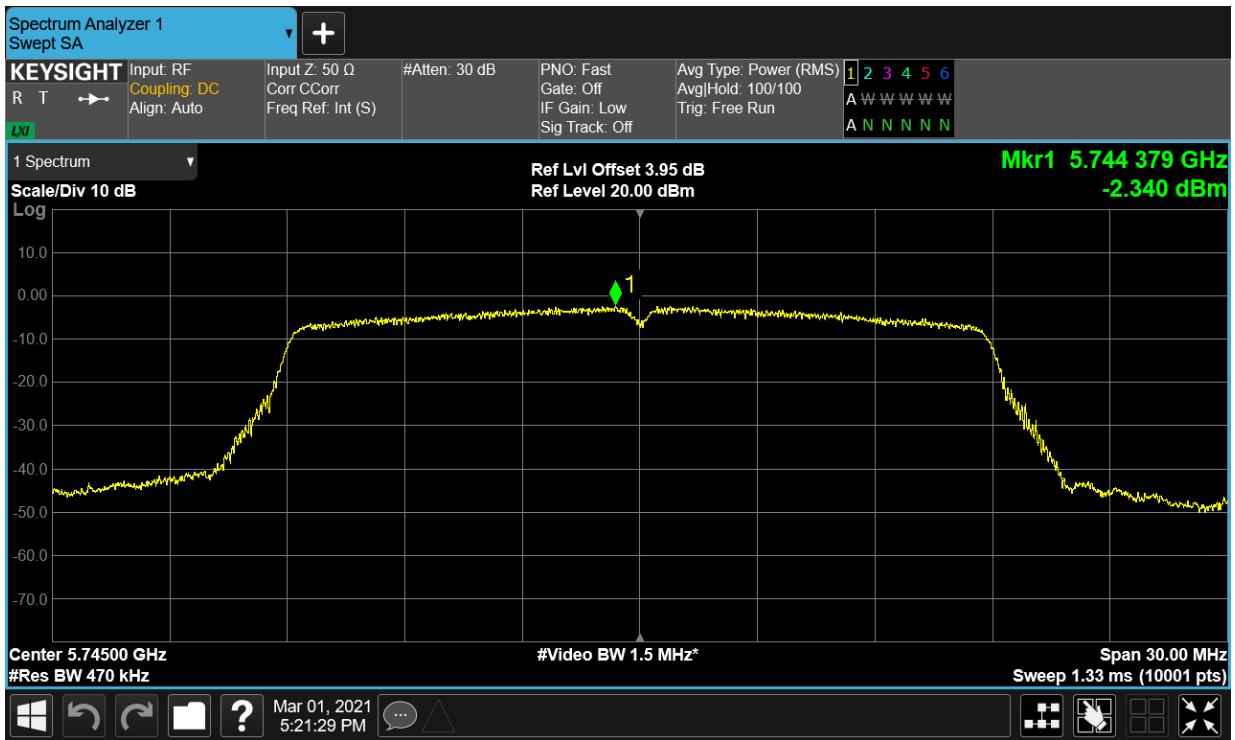
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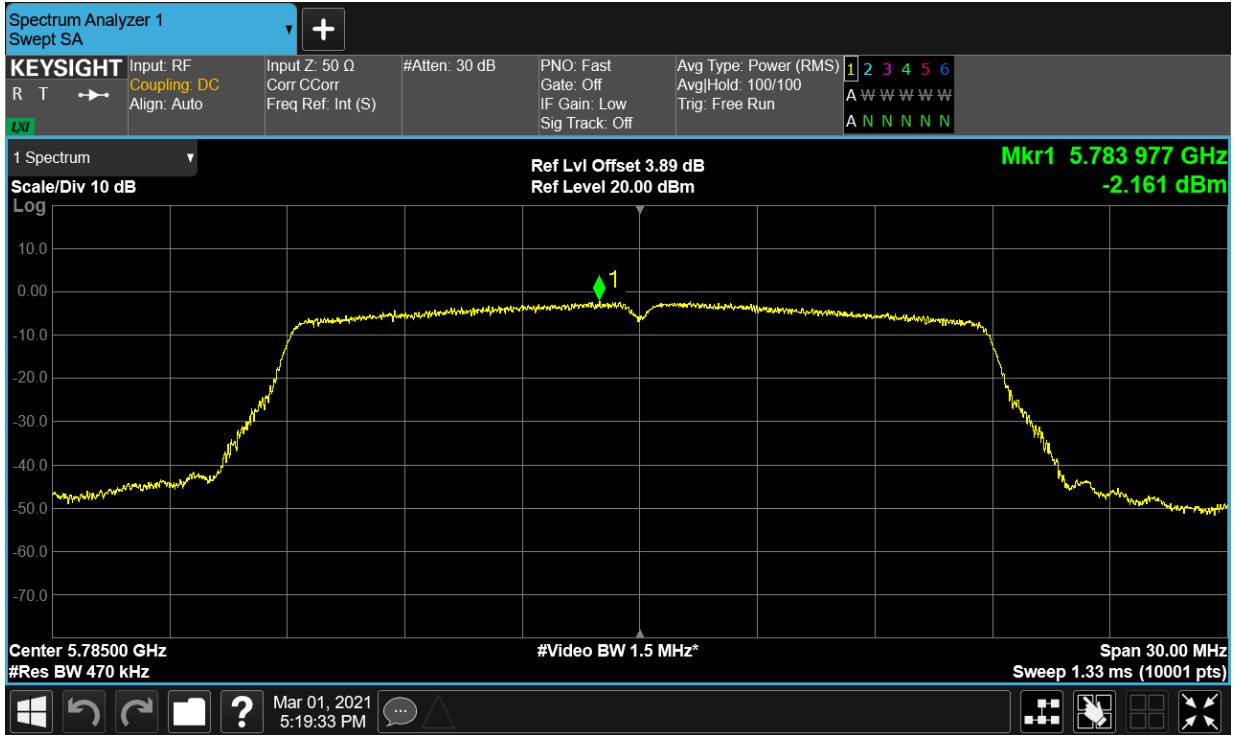
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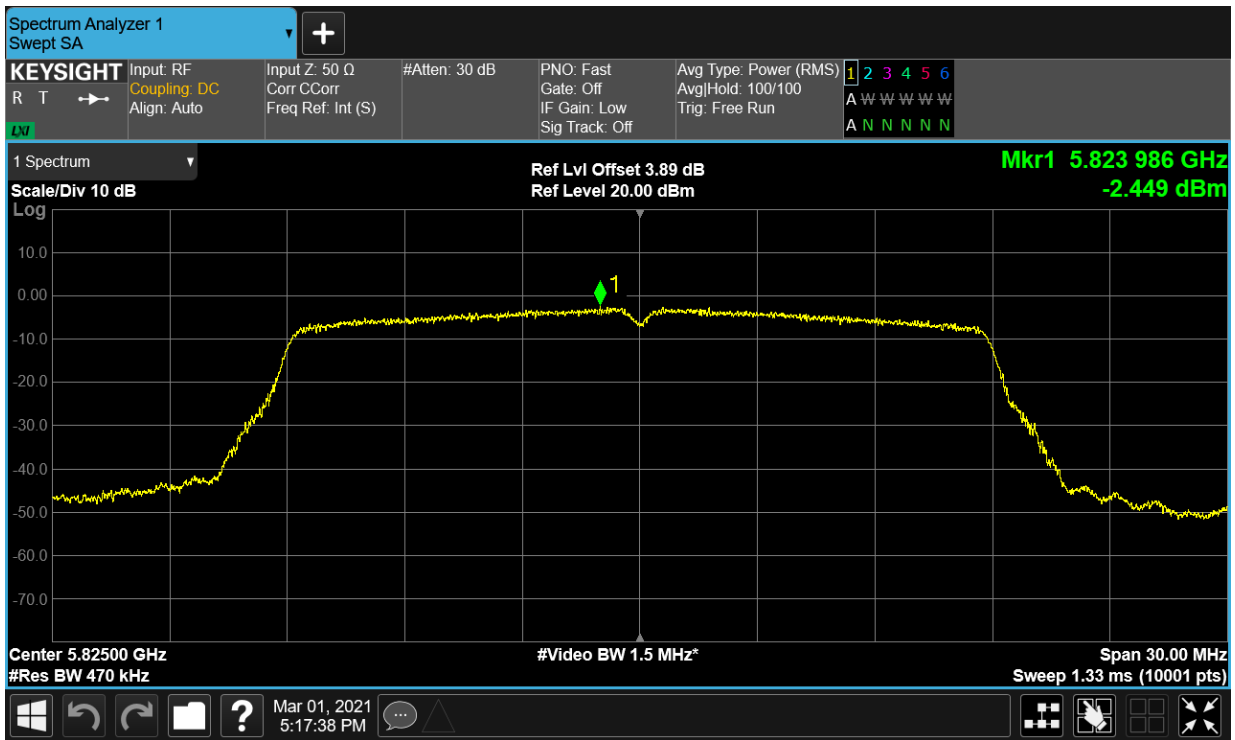
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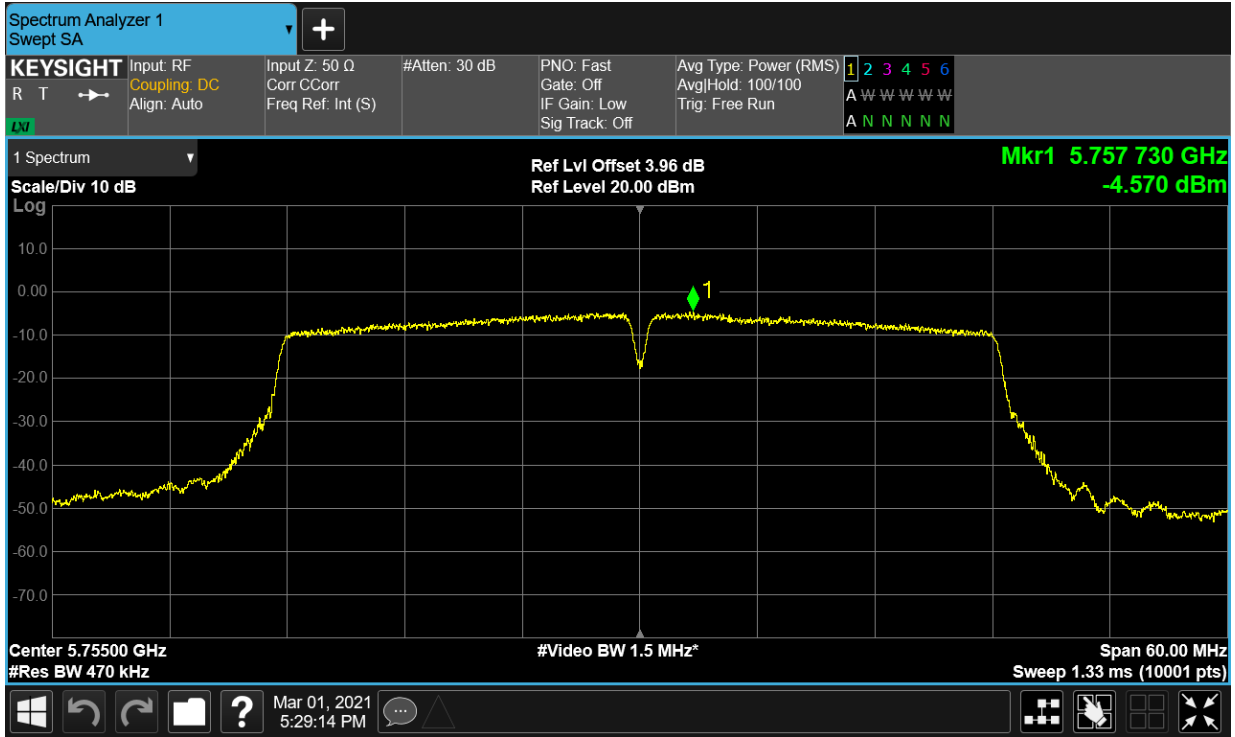
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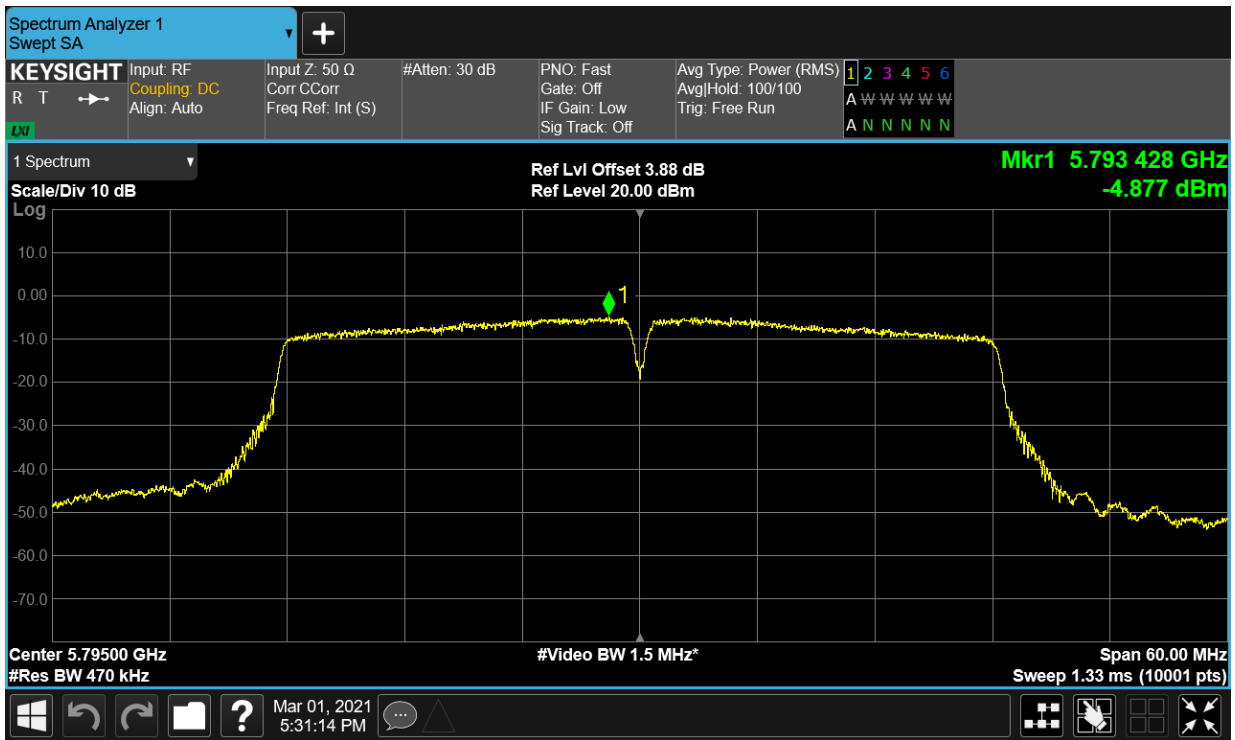
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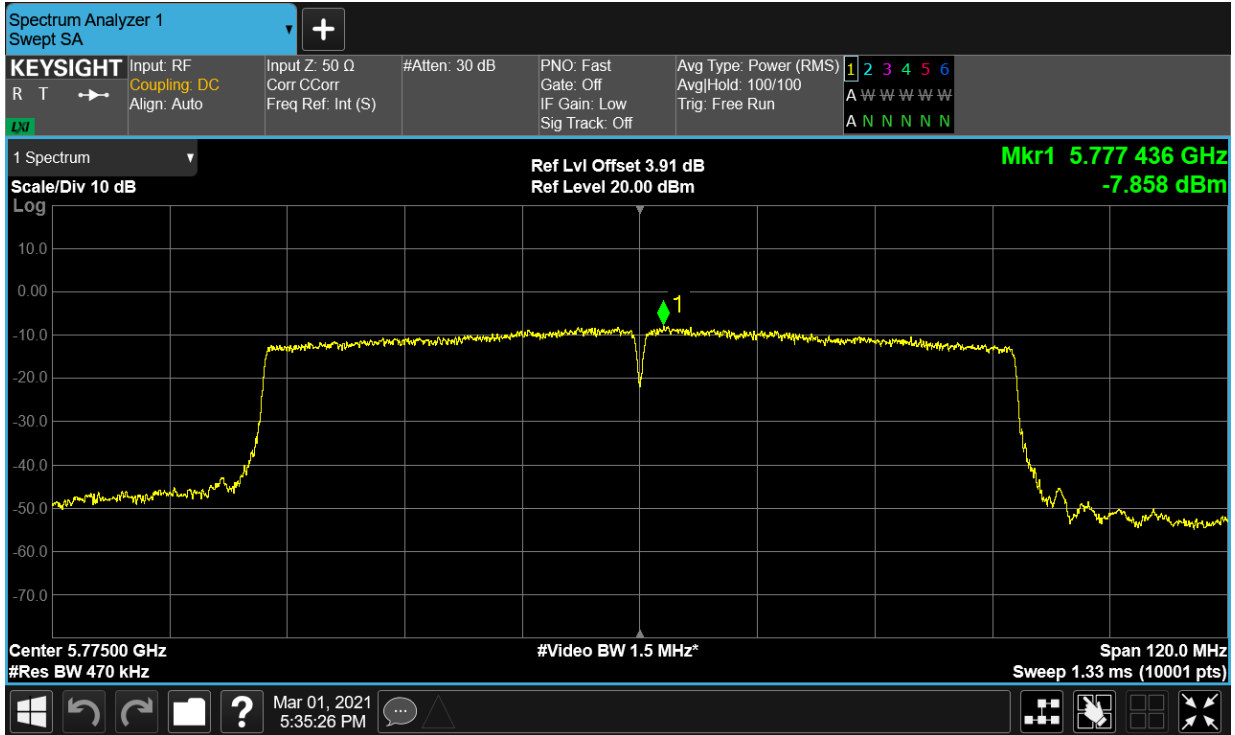
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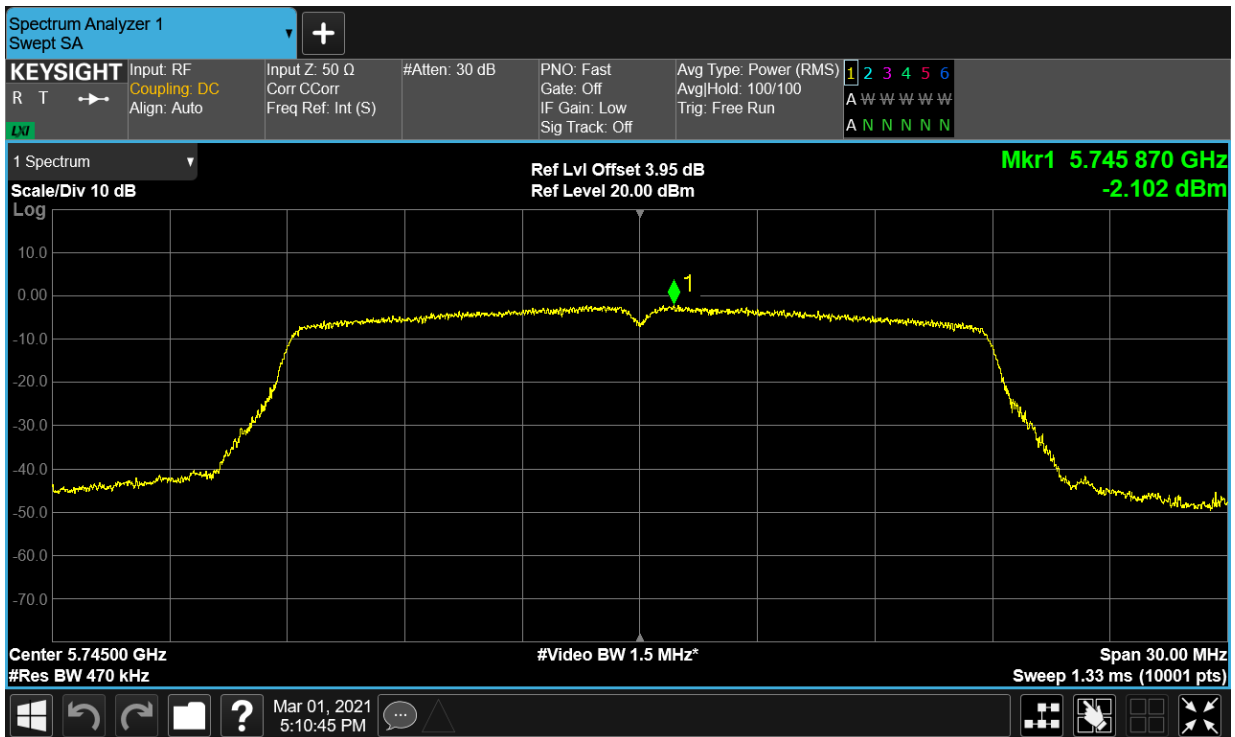
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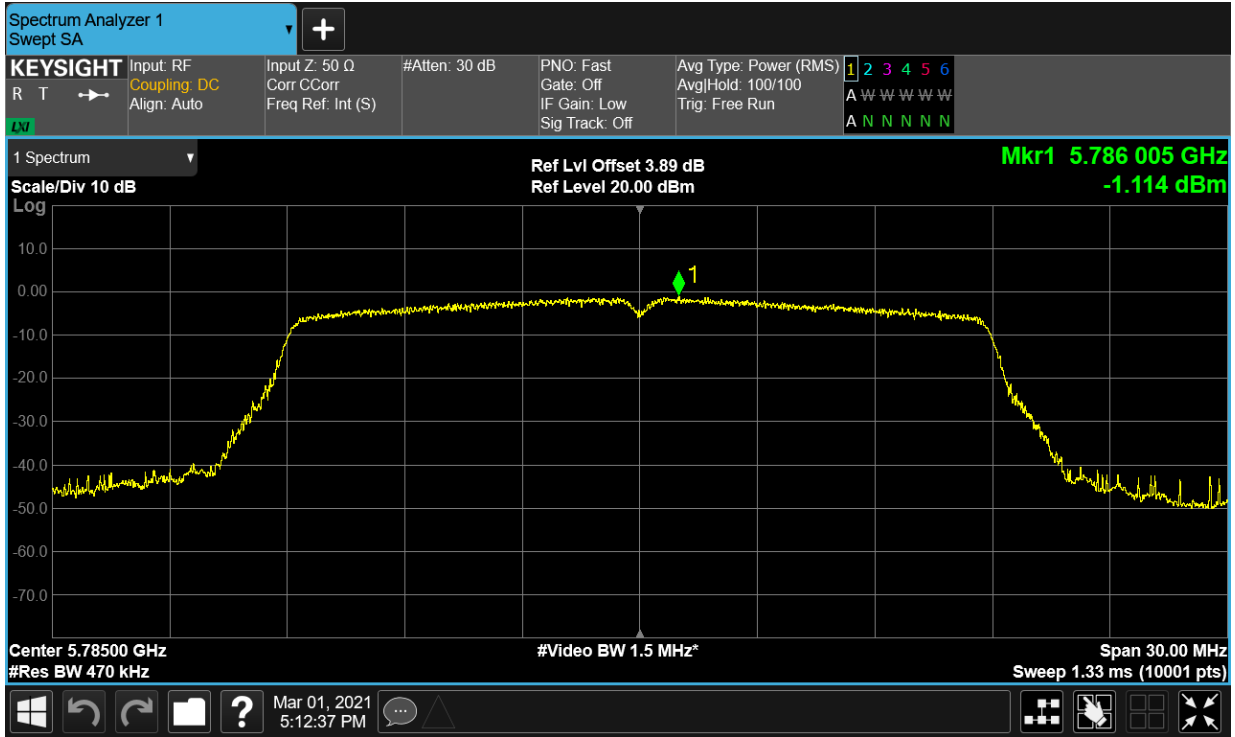
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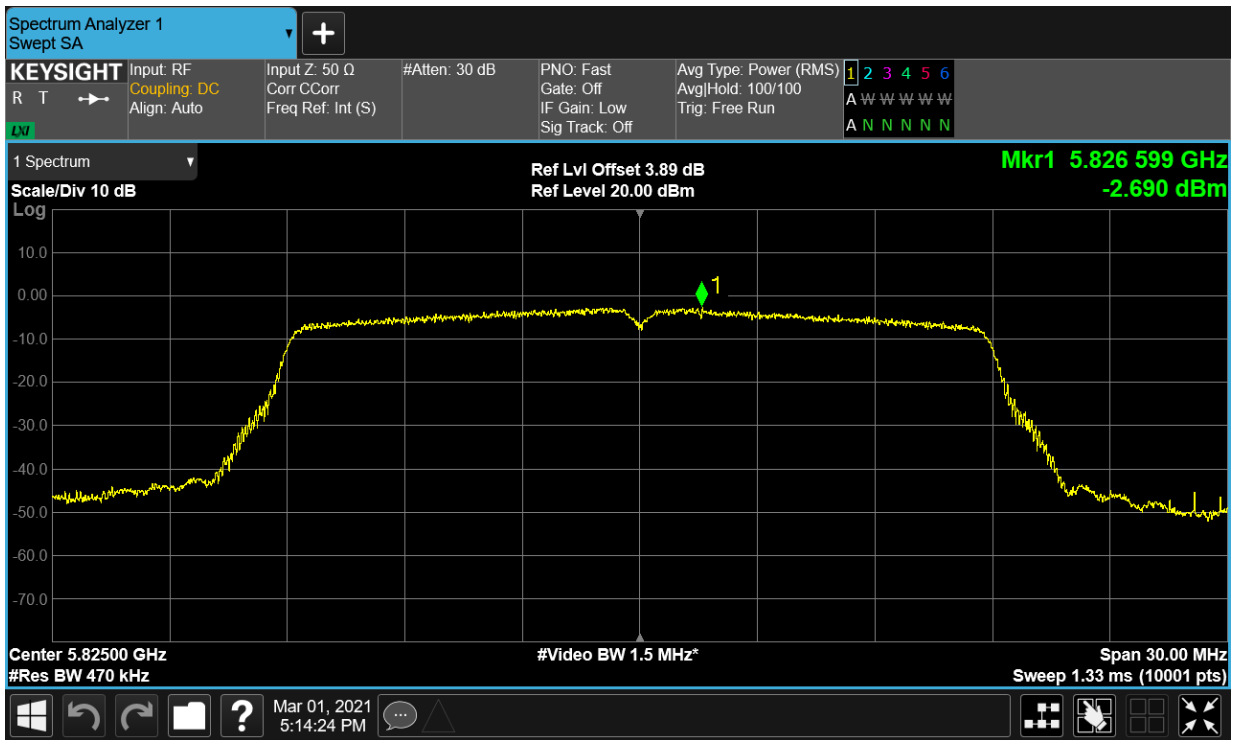
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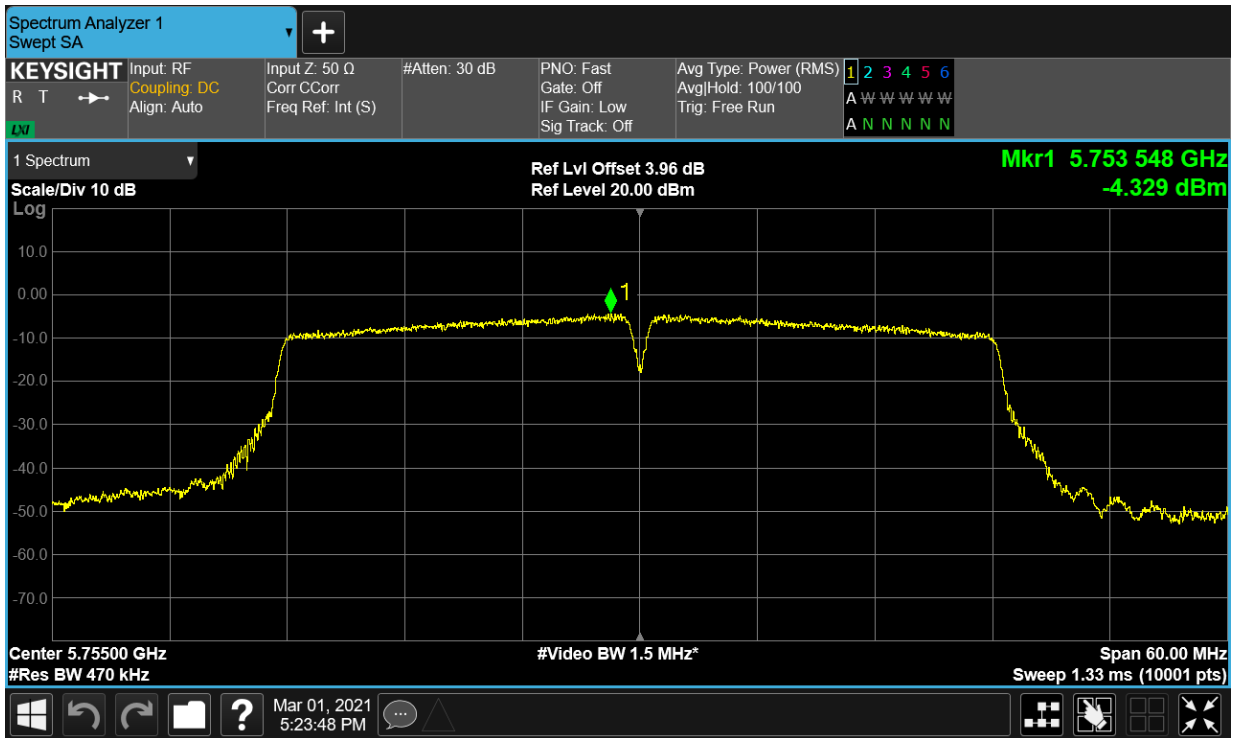
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PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

