RF Test Data for 5G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	SCORE51X
Sample ID:	RW-C-202211-0239-1-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Zhu Dian Yuan
Note: For a more detailed features description, please refer to the report TBR-C-202211-0239-13	

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.22	0.12	0.71
NVNT	a	5785	Ant1	96.53	0.15	0.72
NVNT	a	5825	Ant1	97.2	0.12	0.72
NVNT	ac(VHT20)	5745	Ant1	97.06	0.13	0.76
NVNT	ac(VHT20)	5785	Ant1	97.06	0.13	0.76
NVNT	ac(VHT20)	5825	Ant1	97.06	0.13	0.76
NVNT	ac(VHT40)	5755	Ant1	94.29	0.26	1.52
NVNT	ac(VHT40)	5795	Ant1	94.2	0.26	1.54
NVNT	ac(VHT80)	5775	Ant1	89.19	0.5	3.03
NVNT	n(HT20)	5745	Ant1	97.01	0.13	0.77
NVNT	n(HT20)	5785	Ant1	96.3	0.16	0.77
NVNT	n(HT20)	5825	Ant1	97.01	0.13	0.77
NVNT	n(HT40)	5755	Ant1	92.86	0.32	1.54
NVNT	n(HT40)	5795	Ant1	94.2	0.26	1.54

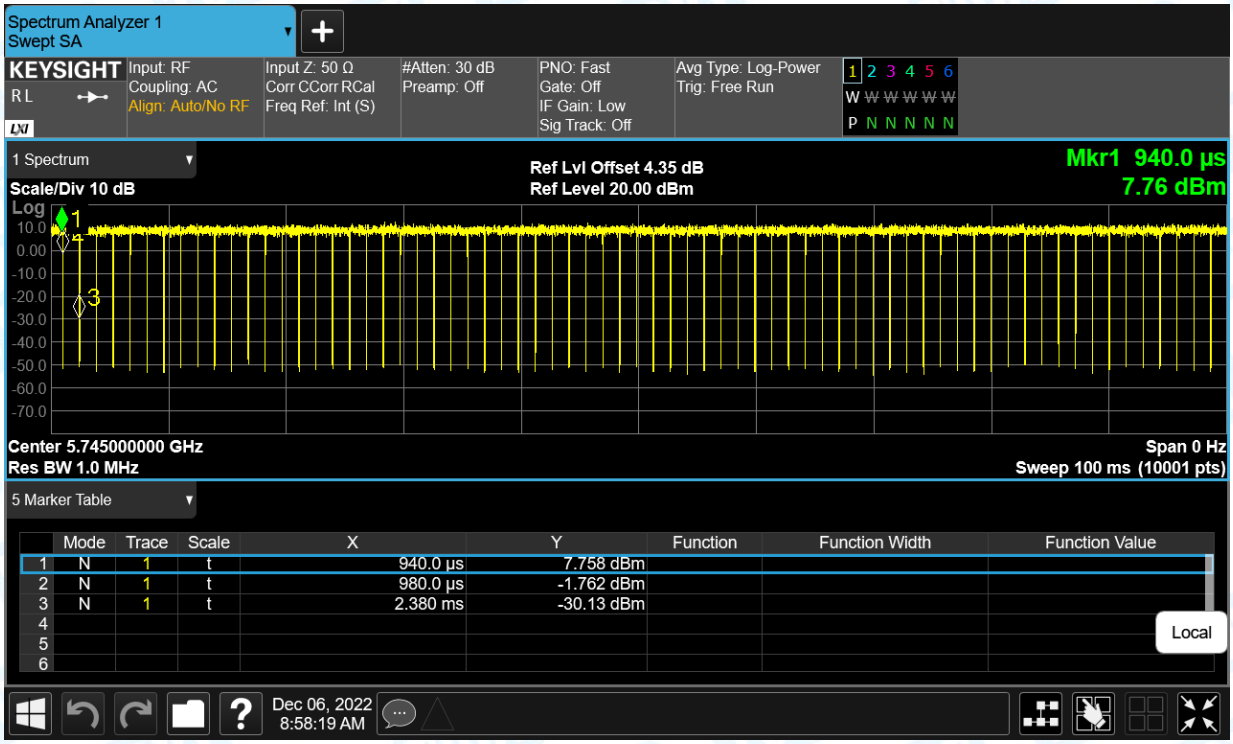
Note: Duty Cycle(%)=ON(ms)/(ON(ms)+OFF(ms))

ON(ms)=Maker3-Maker2

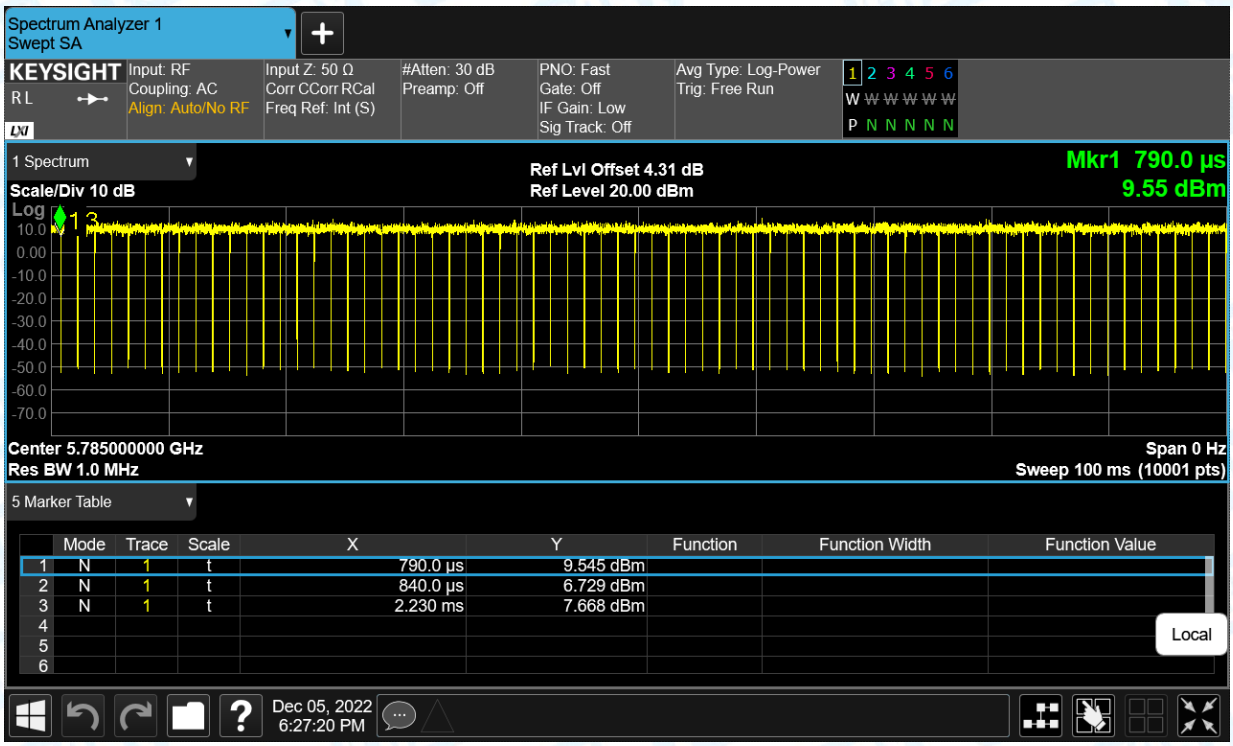
(ON(ms)+OFF(ms))=Maker3-Maker1

Test Graphs

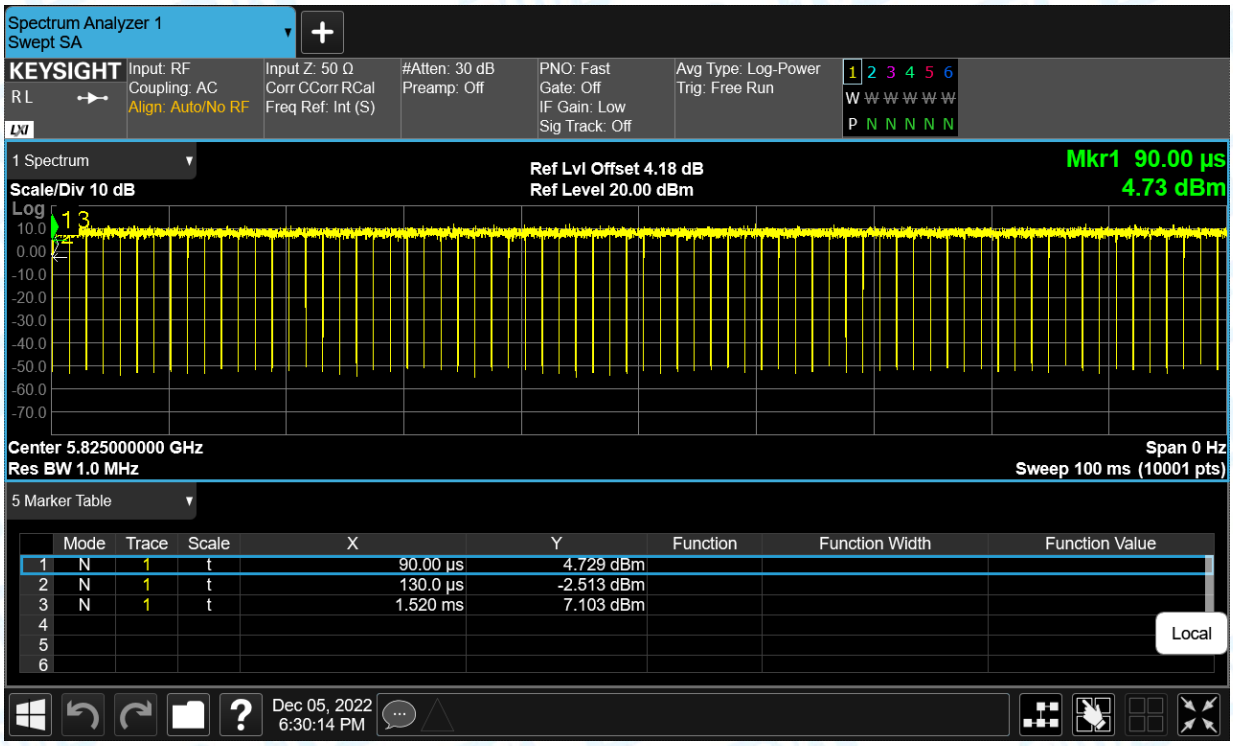
Duty Cycle NVNT a 5745MHz Ant1



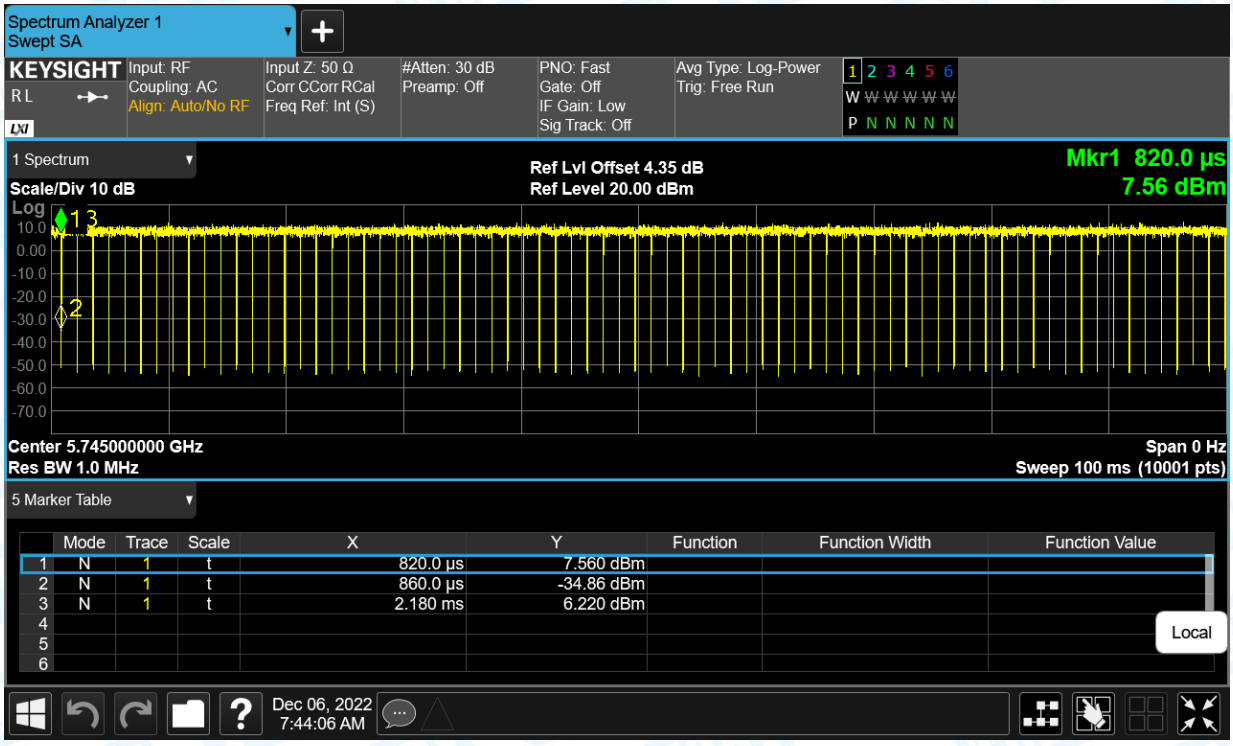
Duty Cycle NVNT a 5785MHz Ant1



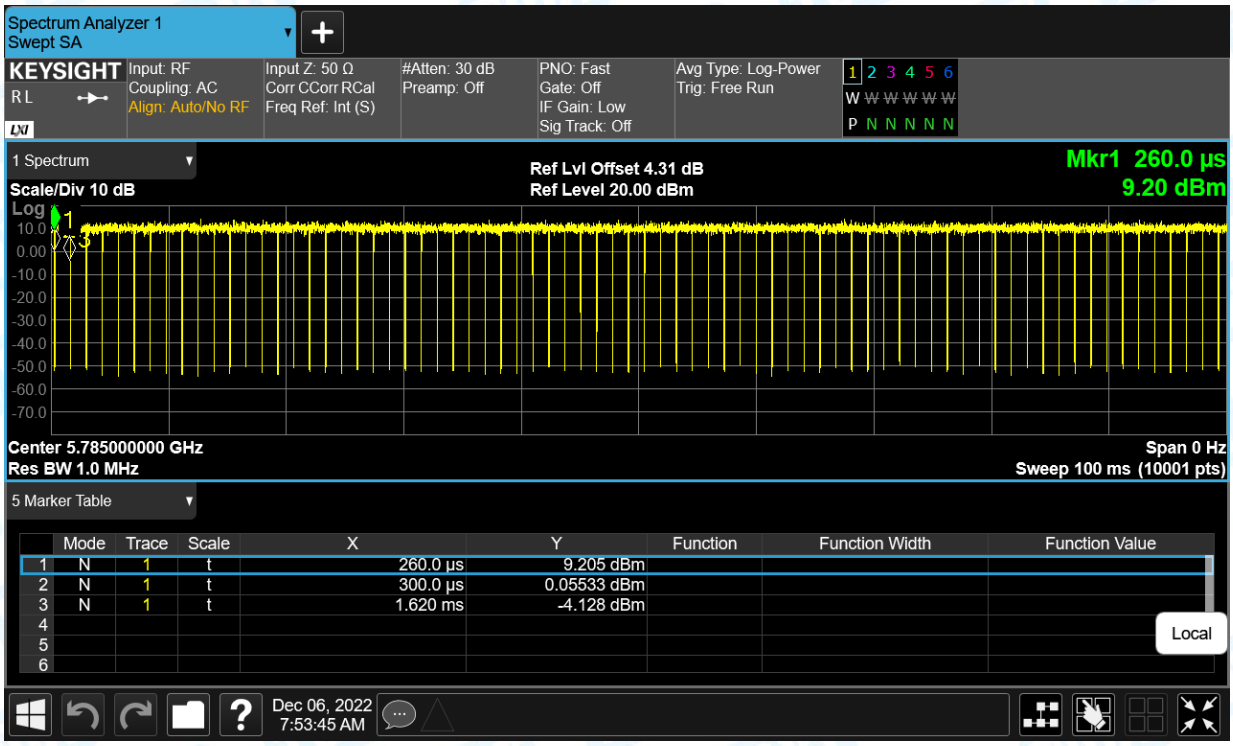
Duty Cycle NVNT a 5825MHz Ant1



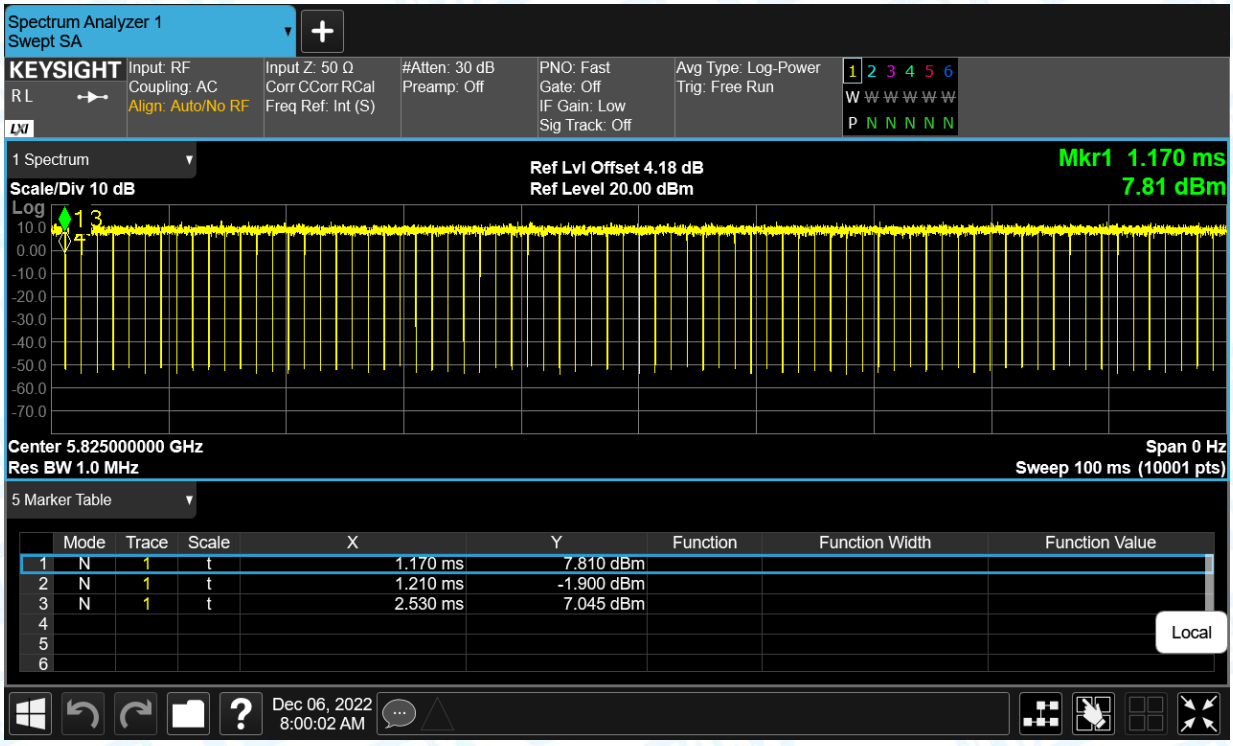
Duty Cycle NVNT ac(VHT20) 5745MHz Ant1



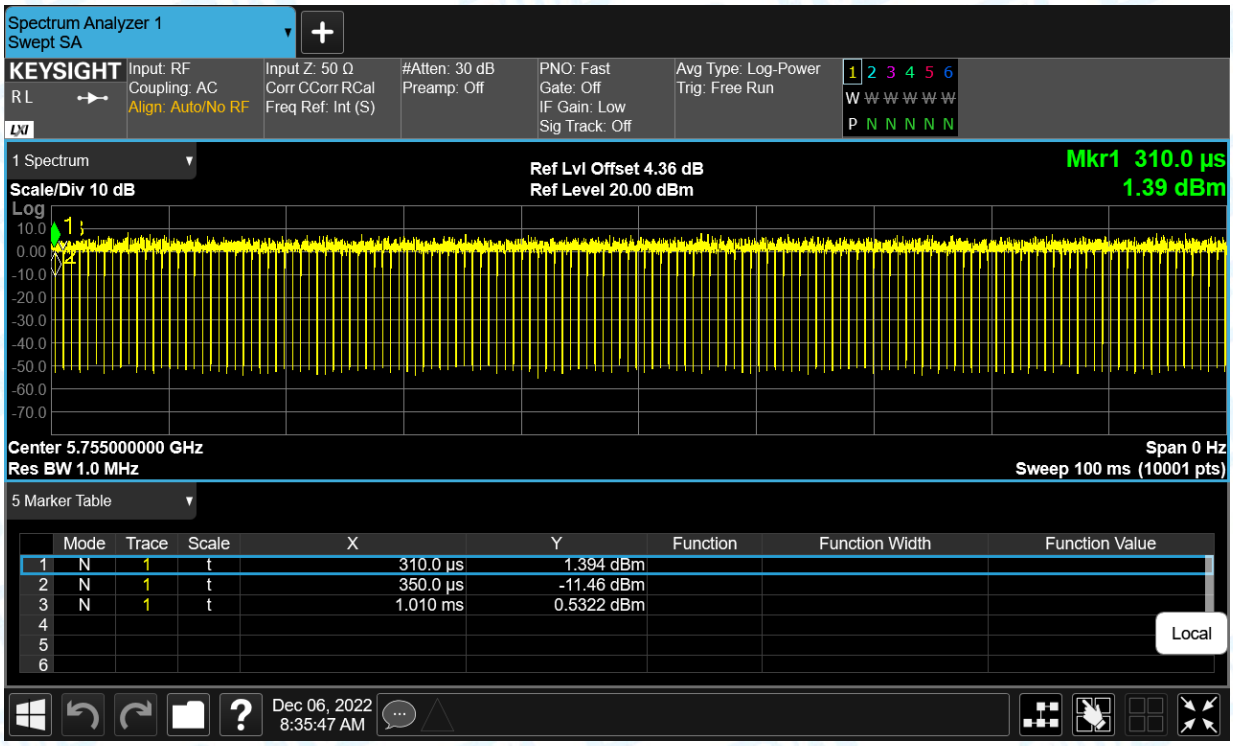
Duty Cycle NVNT ac(VHT20) 5785MHz Ant1



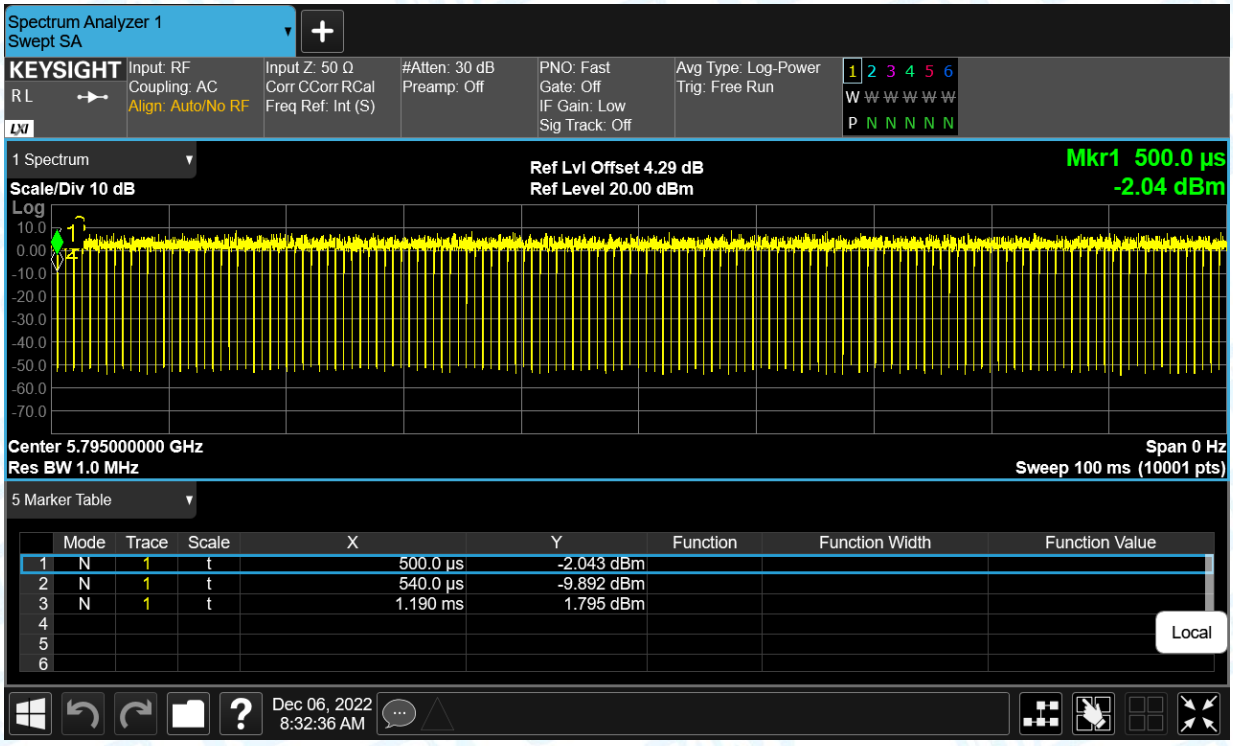
Duty Cycle NVNT ac(VHT20) 5825MHz Ant1



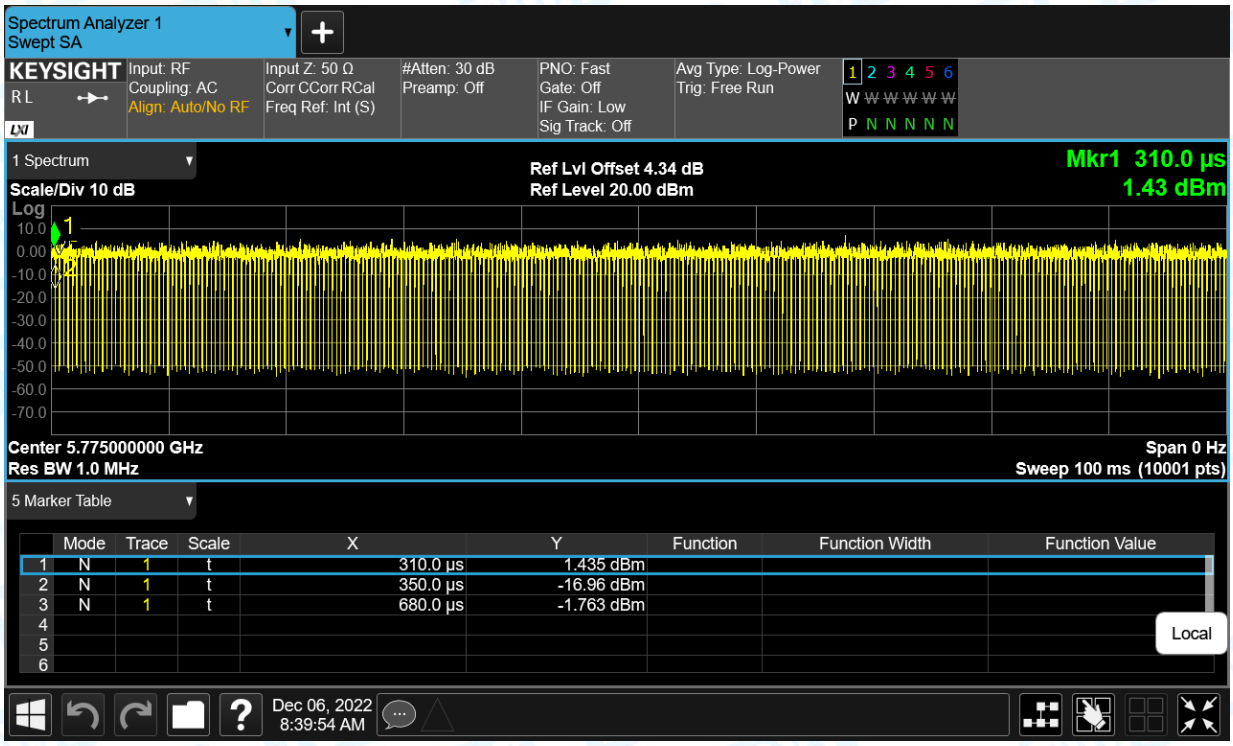
Duty Cycle NVNT ac(VHT40) 5755MHz Ant1



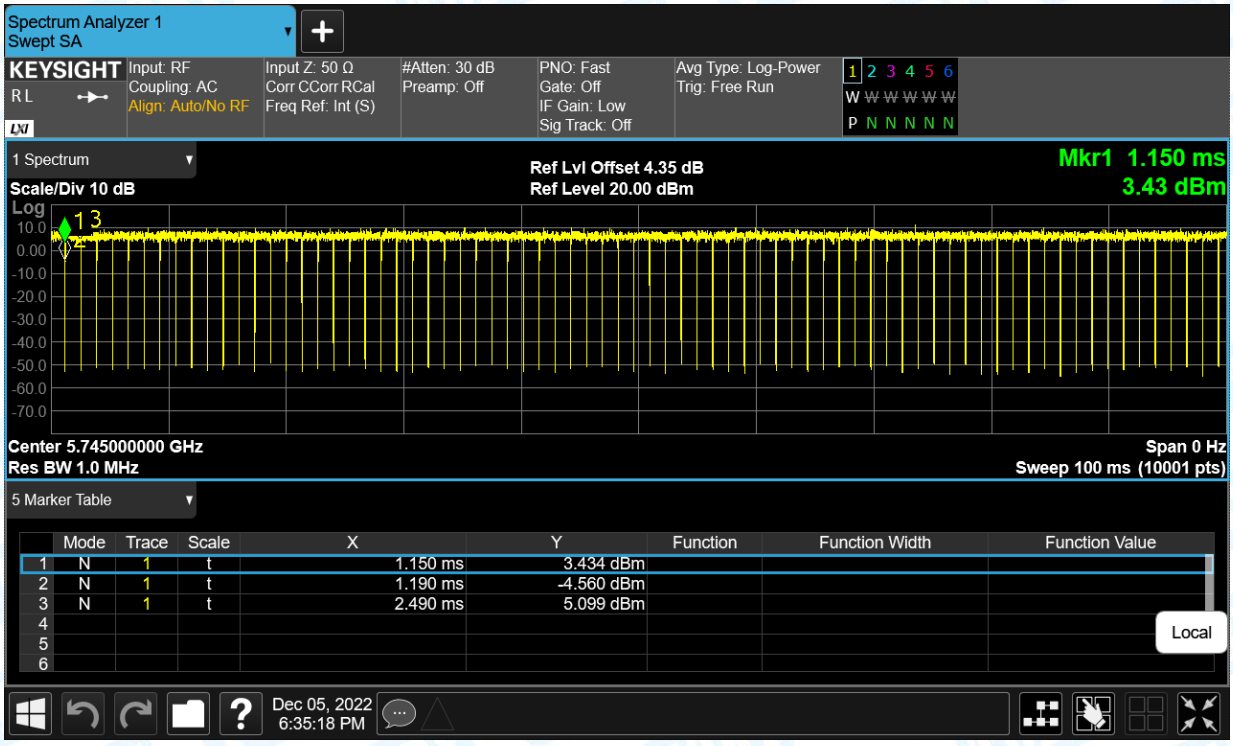
Duty Cycle NVNT ac(VHT40) 5795MHz Ant1



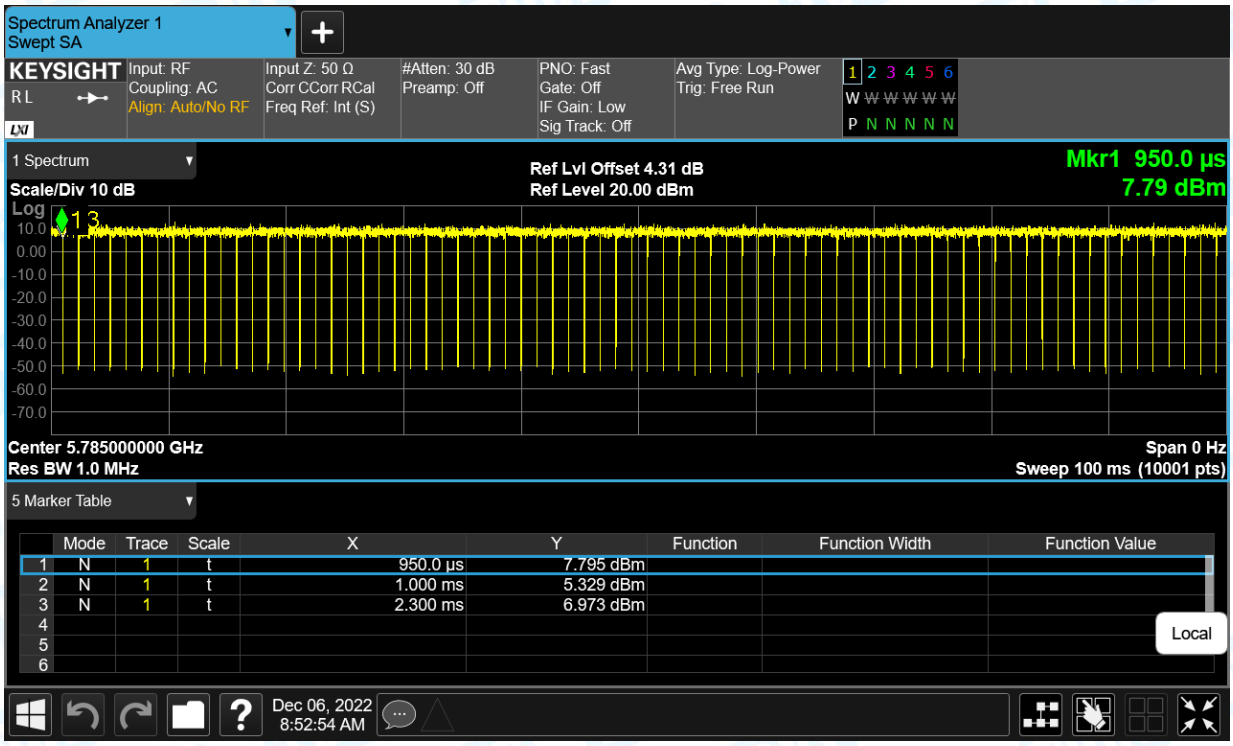
Duty Cycle NVNT ac(VHT80) 5775MHz Ant1



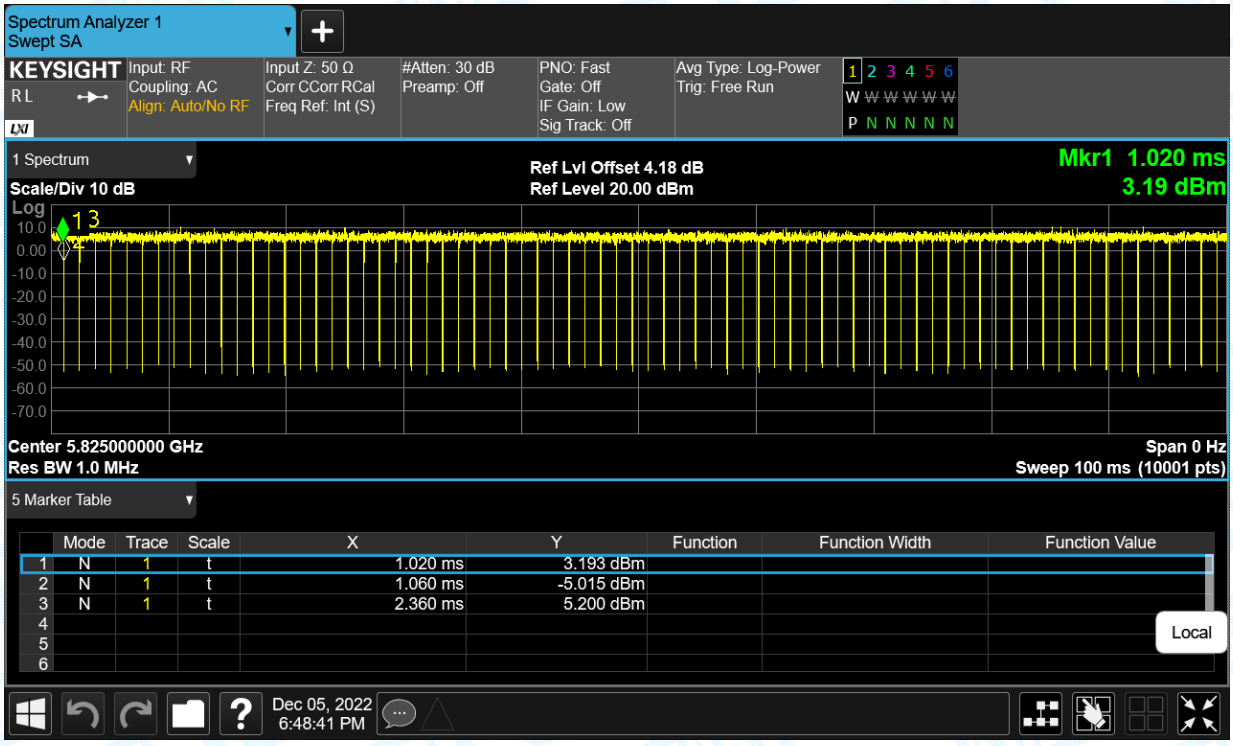
Duty Cycle NVNT n(HT20) 5745MHz Ant1



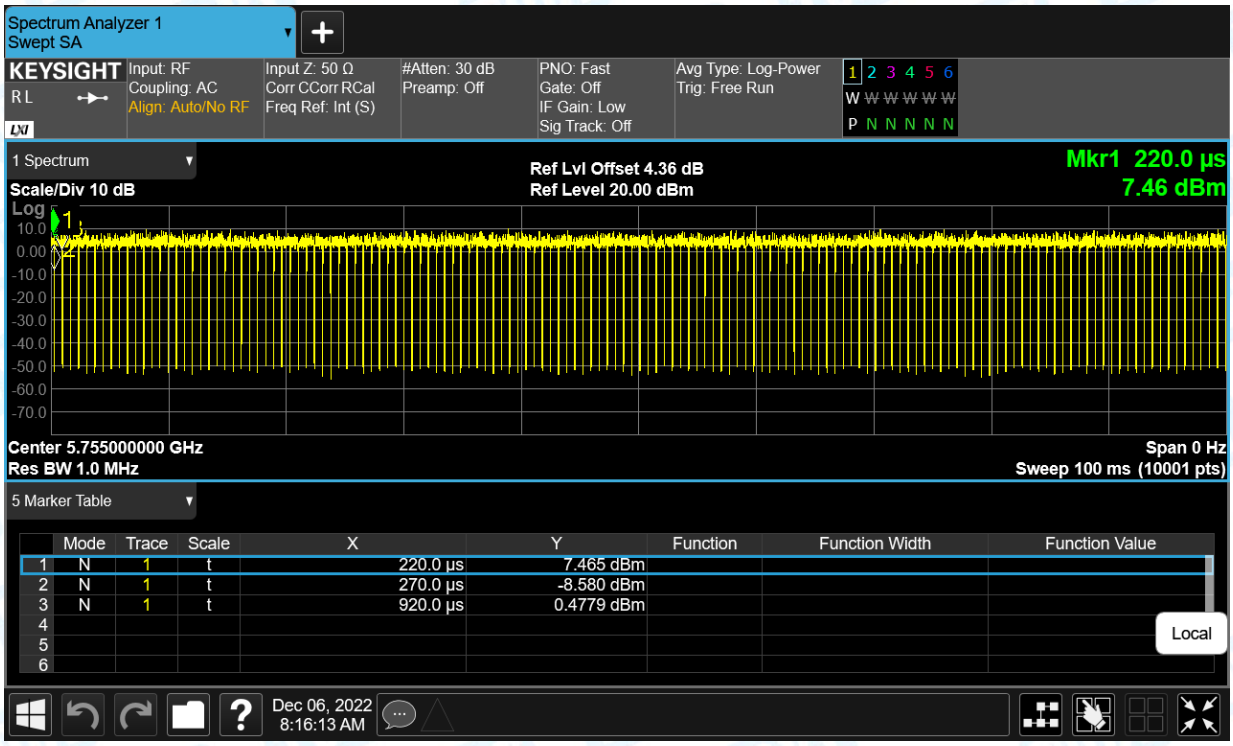
Duty Cycle NVNT n(HT20) 5785MHz Ant1



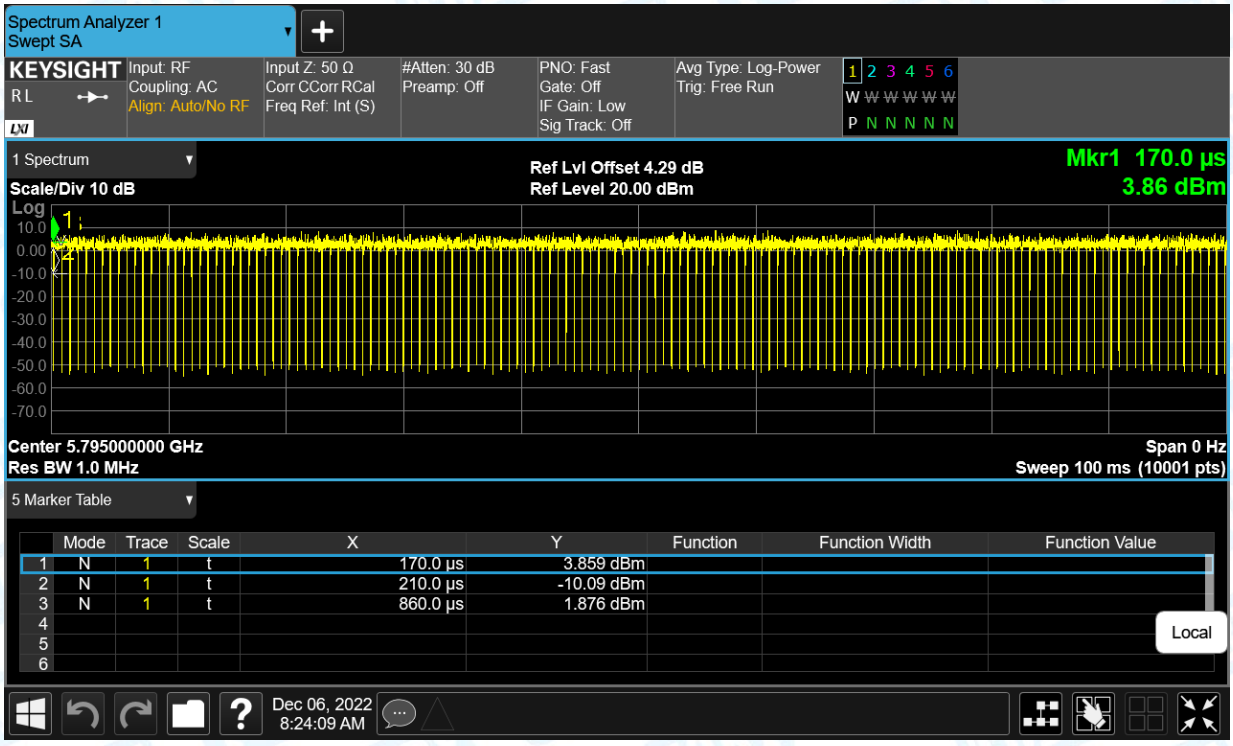
Duty Cycle NVNT n(HT20) 5825MHz Ant1



Duty Cycle NVNT n(HT40) 5755MHz Ant1



Duty Cycle NVNT n(HT40) 5795MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	16.16	30	Pass
NVNT	a	5785	Ant1	16.64	30	Pass
NVNT	a	5825	Ant1	16.81	30	Pass
NVNT	ac(VHT20)	5745	Ant1	16.59	30	Pass
NVNT	ac(VHT20)	5785	Ant1	16.43	30	Pass
NVNT	ac(VHT20)	5825	Ant1	15.52	30	Pass
NVNT	ac(VHT40)	5755	Ant1	15.01	30	Pass
NVNT	ac(VHT40)	5795	Ant1	15.30	30	Pass
NVNT	ac(VHT80)	5775	Ant1	14.25	30	Pass
NVNT	n(HT20)	5745	Ant1	16.13	30	Pass
NVNT	n(HT20)	5785	Ant1	15.56	30	Pass
NVNT	n(HT20)	5825	Ant1	16.14	30	Pass
NVNT	n(HT40)	5755	Ant1	15.77	30	Pass
NVNT	n(HT40)	5795	Ant1	15.57	30	Pass

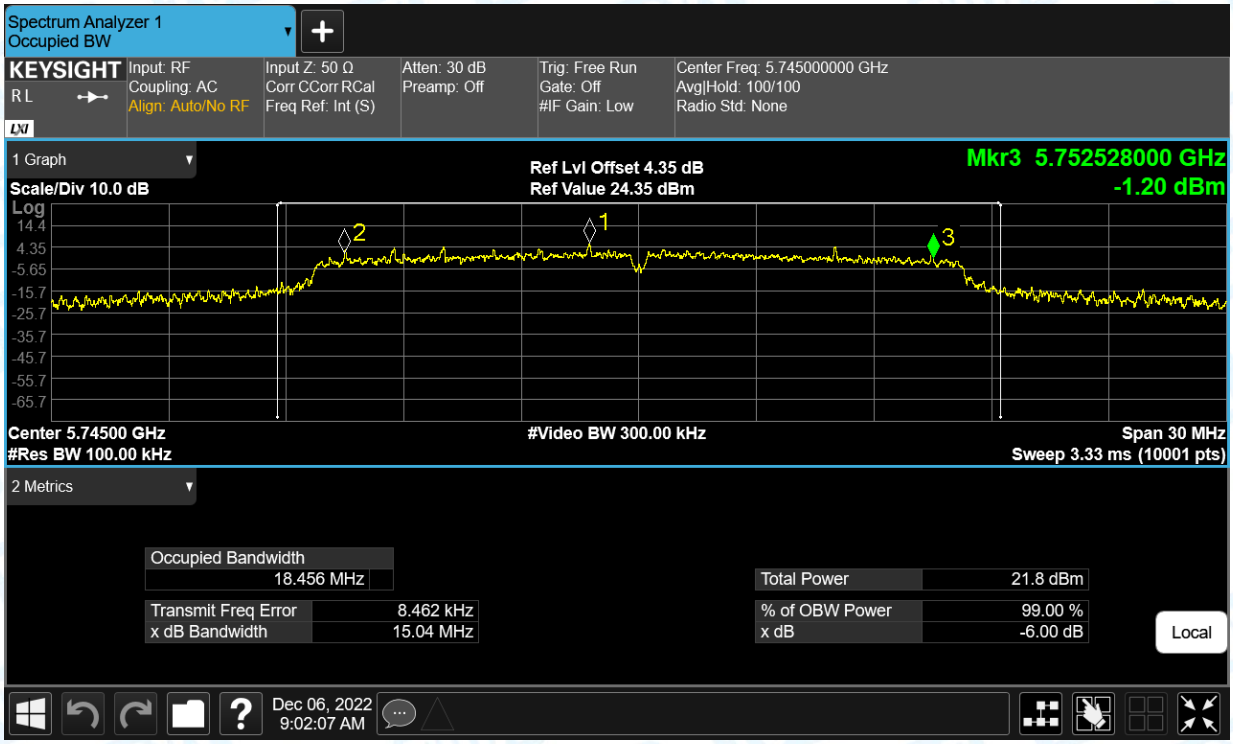
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

3. -6dB Bandwidth

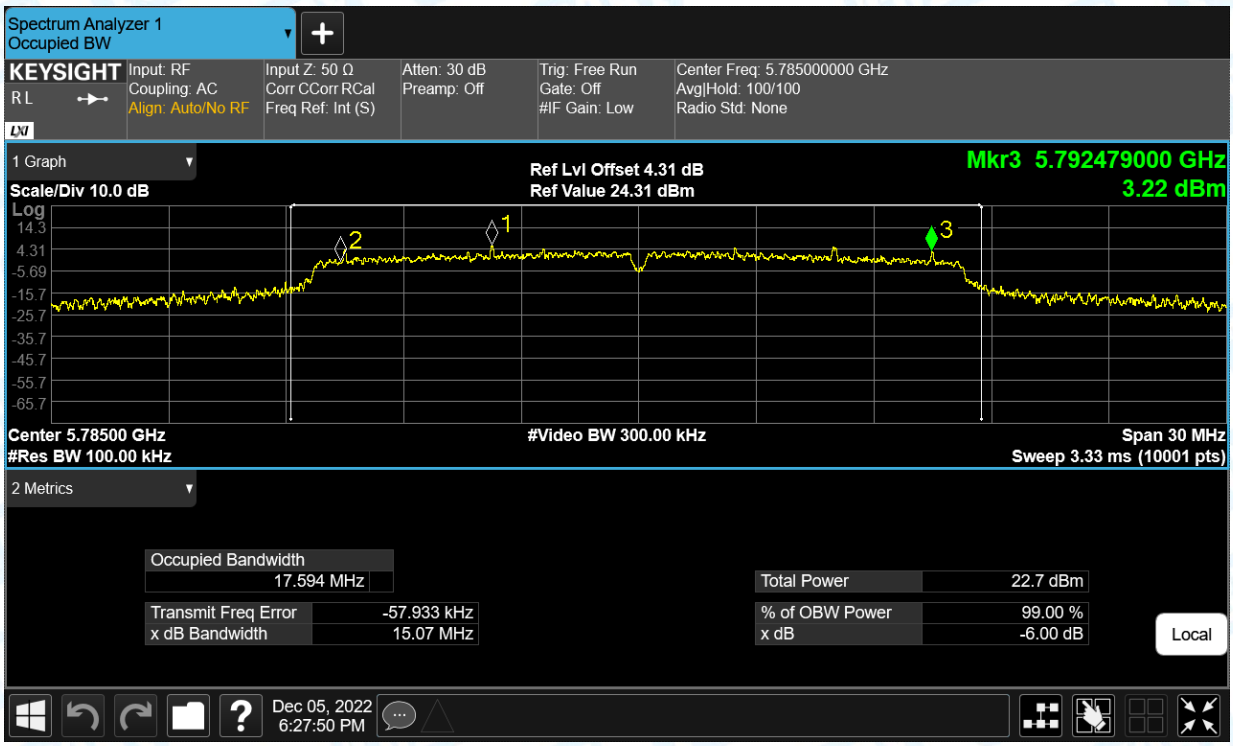
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.04	0.5	Pass
NVNT	a	5785	Ant1	15.07	0.5	Pass
NVNT	a	5825	Ant1	13.81	0.5	Pass
NVNT	ac(VHT20)	5745	Ant1	15.07	0.5	Pass
NVNT	ac(VHT20)	5785	Ant1	14.98	0.5	Pass
NVNT	ac(VHT20)	5825	Ant1	15.07	0.5	Pass
NVNT	ac(VHT40)	5755	Ant1	33.87	0.5	Pass
NVNT	ac(VHT40)	5795	Ant1	35.1	0.5	Pass
NVNT	ac(VHT80)	5775	Ant1	75.1	0.5	Pass
NVNT	n(HT20)	5745	Ant1	15.02	0.5	Pass
NVNT	n(HT20)	5785	Ant1	12.65	0.5	Pass
NVNT	n(HT20)	5825	Ant1	16.65	0.5	Pass
NVNT	n(HT40)	5755	Ant1	35.07	0.5	Pass
NVNT	n(HT40)	5795	Ant1	33.84	0.5	Pass

Test Graphs

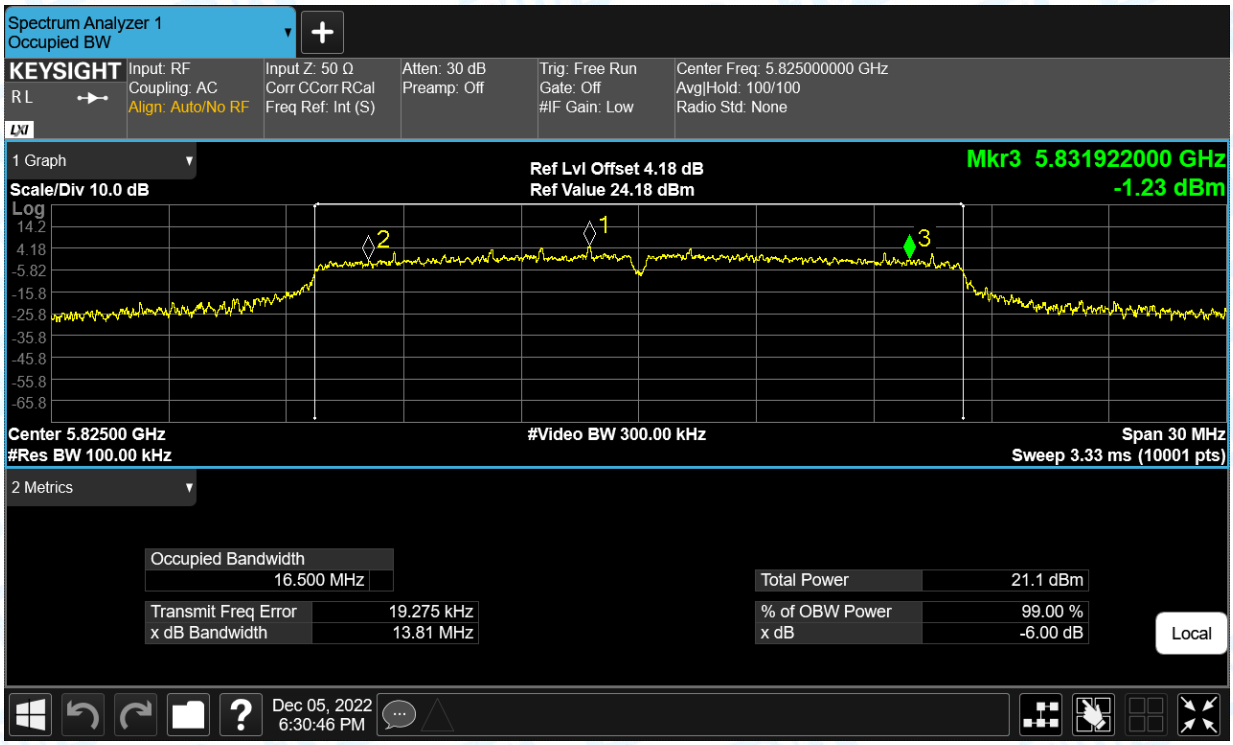
-6dB Bandwidth NVNT a 5745MHz Ant1



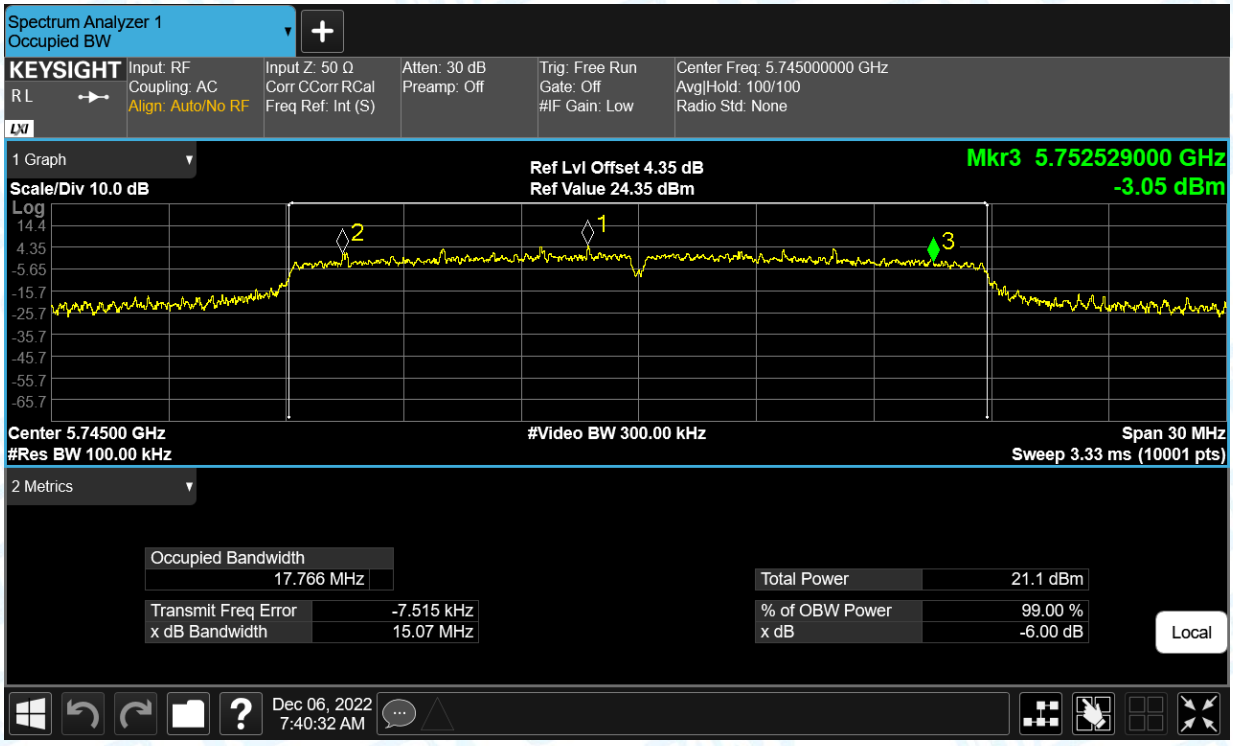
-6dB Bandwidth NVNT a 5785MHz Ant1



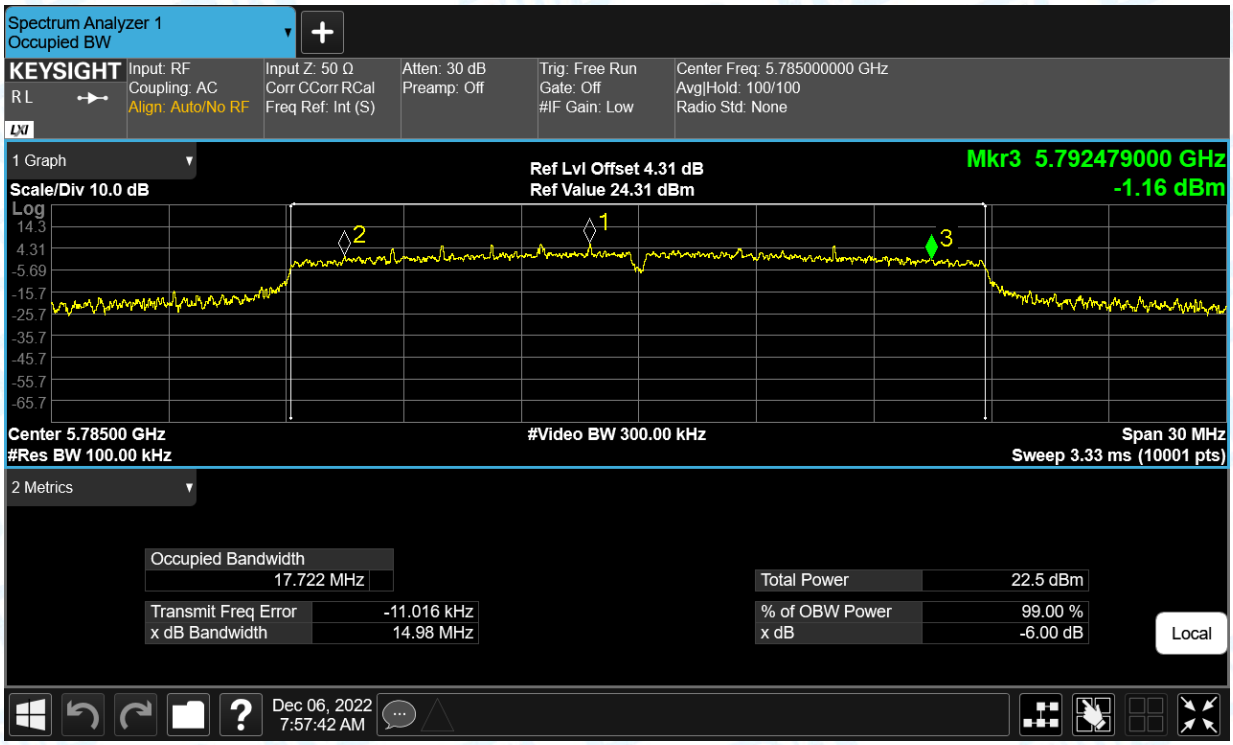
-6dB Bandwidth NVNT a 5825MHz Ant1



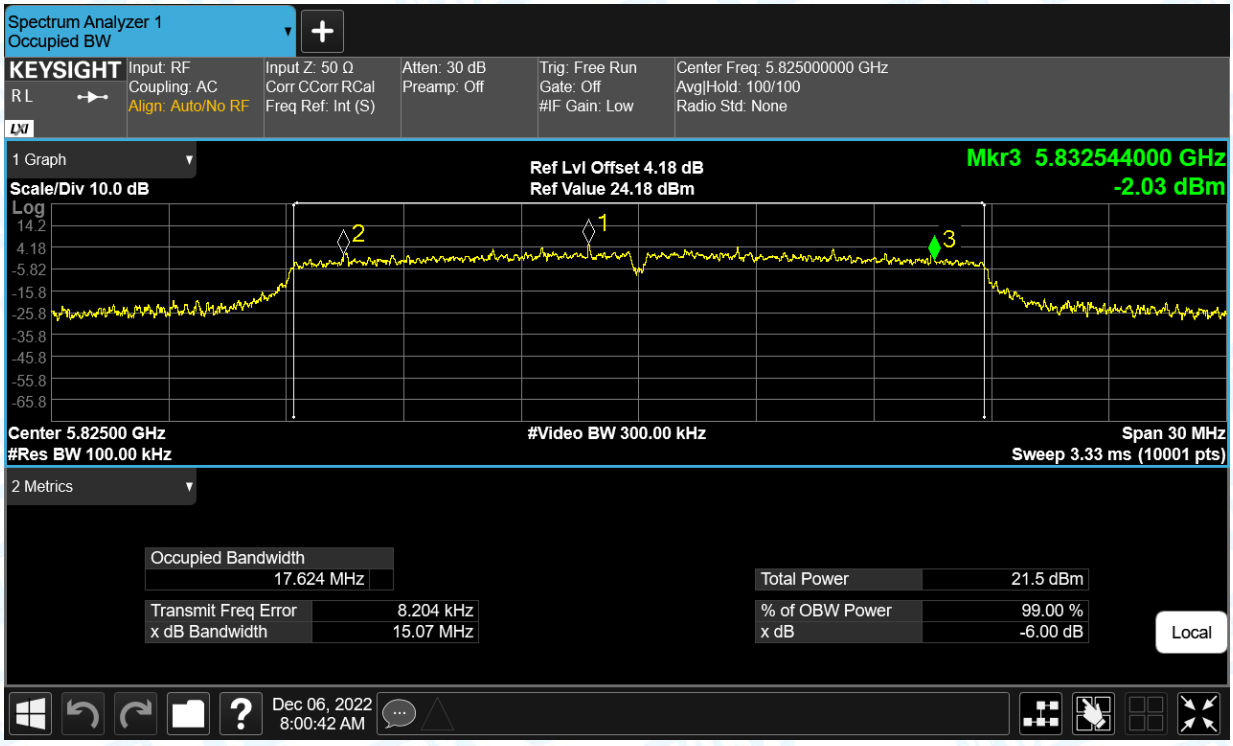
-6dB Bandwidth NVNT ac(VHT20) 5745MHz Ant1



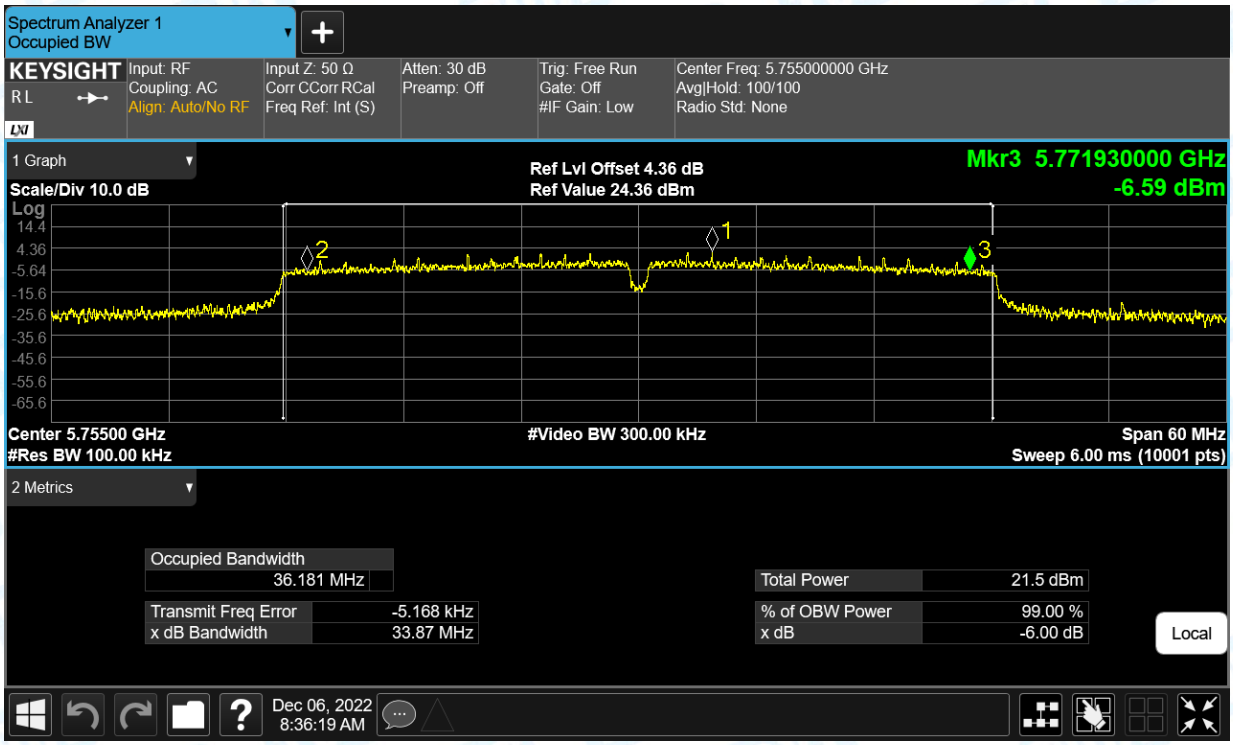
-6dB Bandwidth NVNT ac(VHT20) 5785MHz Ant1



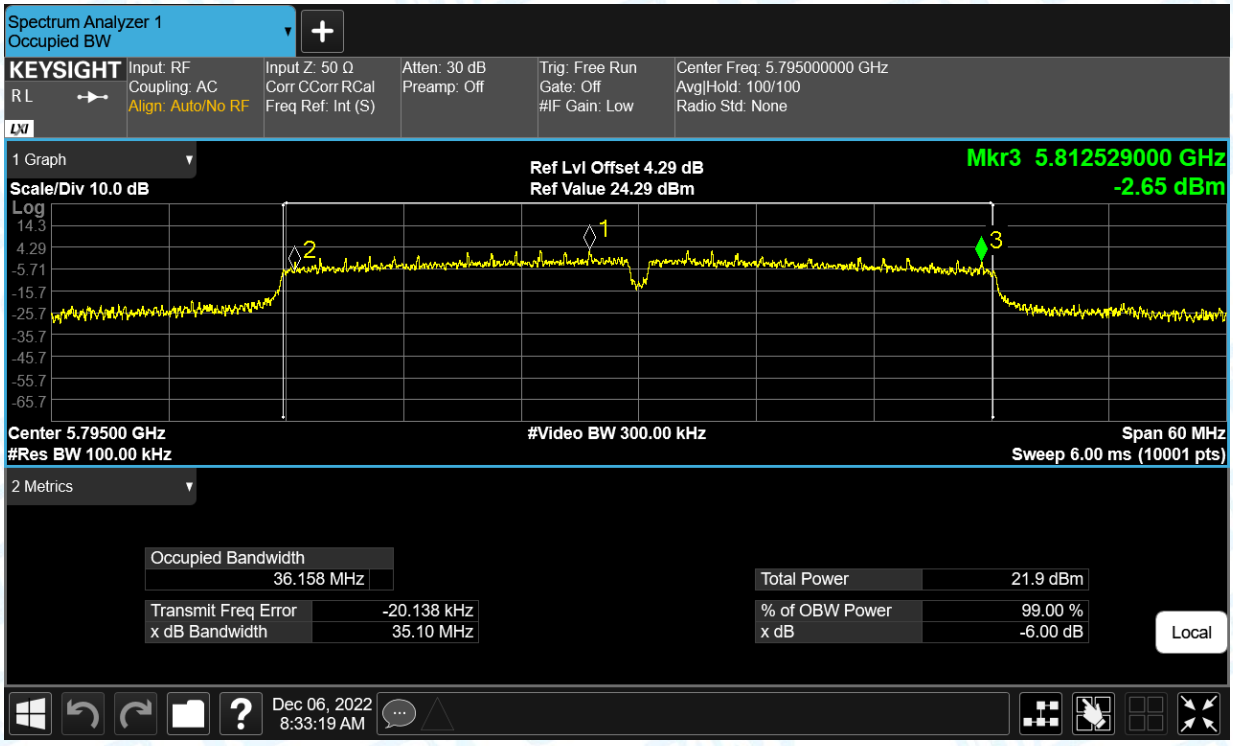
-6dB Bandwidth NVNT ac(VHT20) 5825MHz Ant1



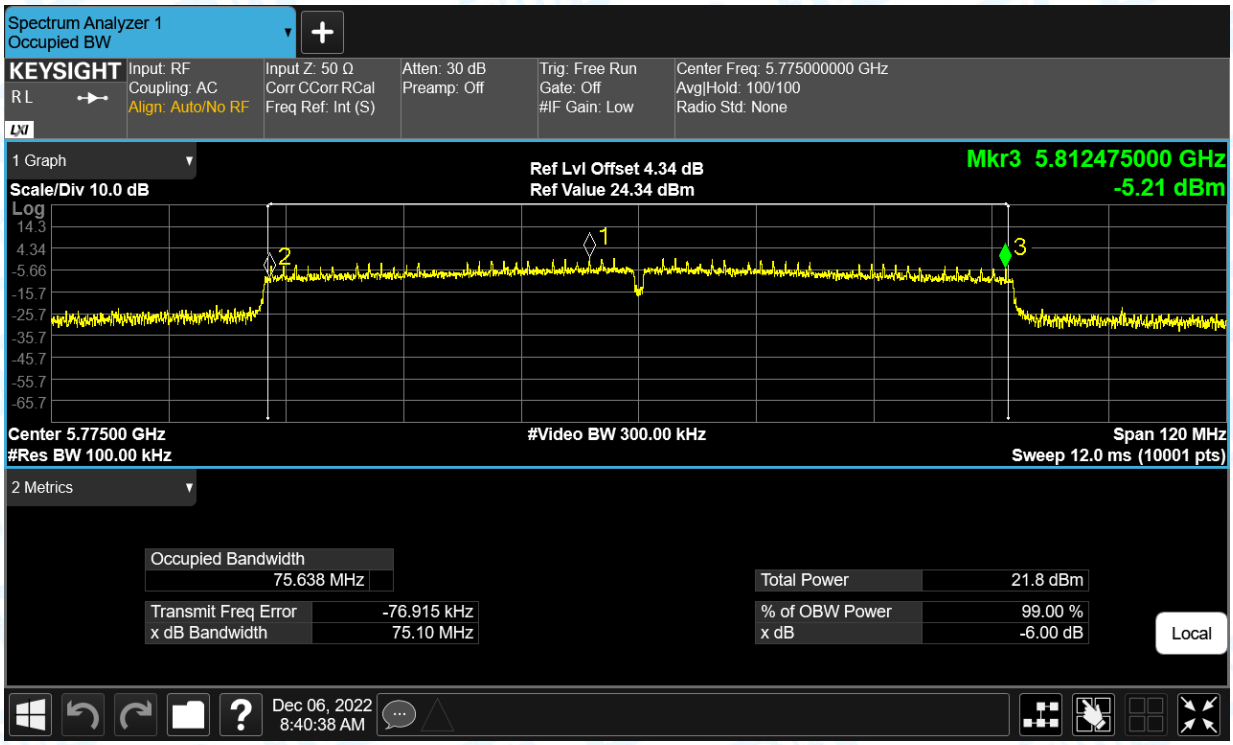
-6dB Bandwidth NVNT ac(VHT40) 5755MHz Ant1



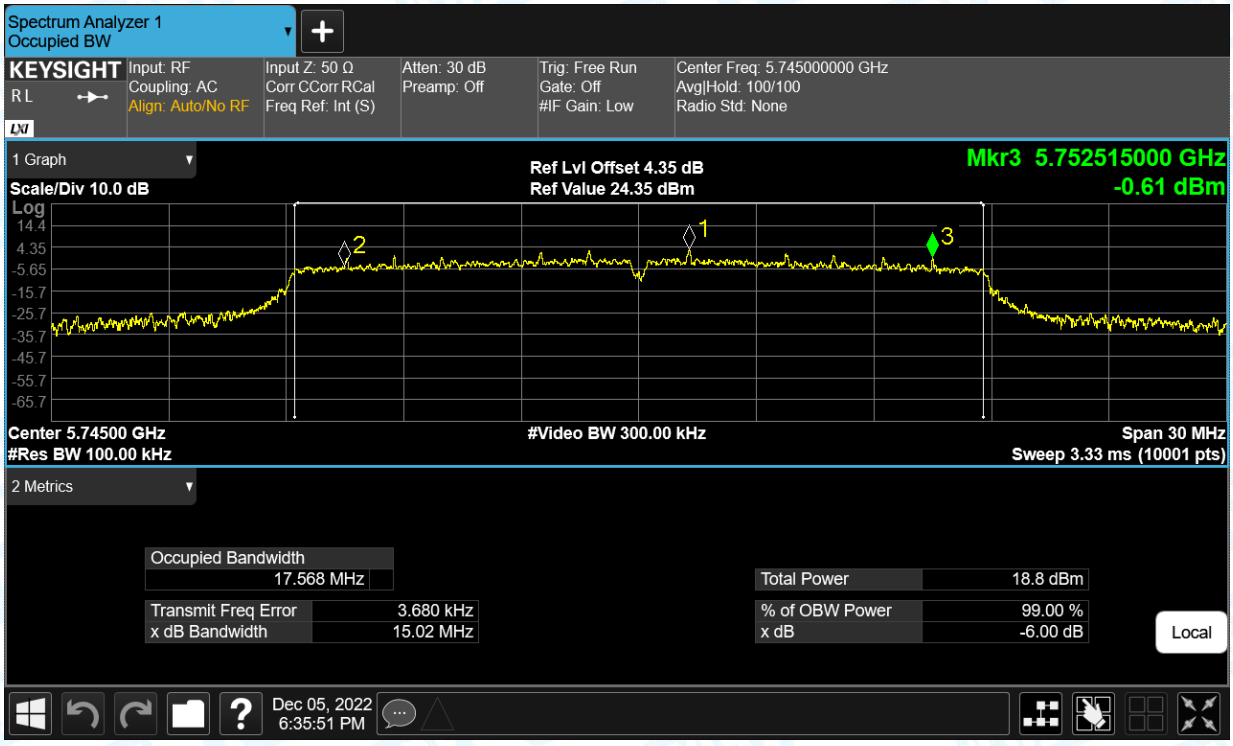
-6dB Bandwidth NVNT ac(VHT40) 5795MHz Ant1



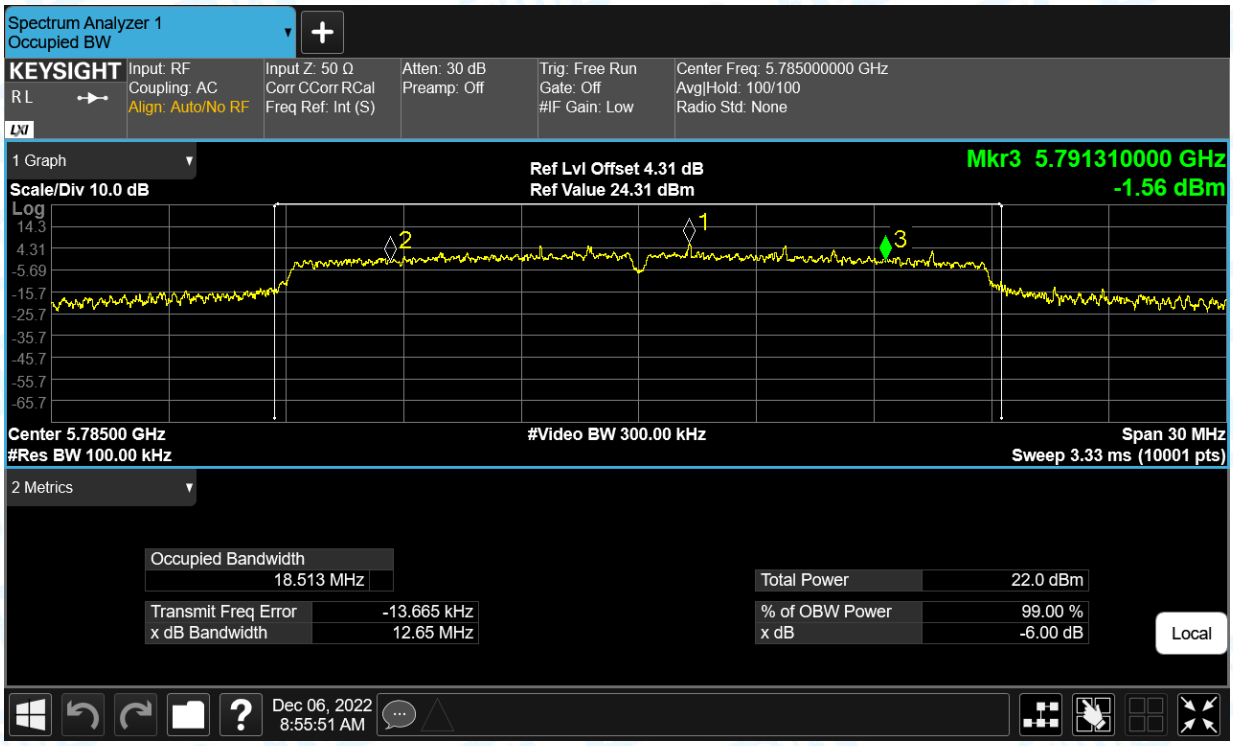
-6dB Bandwidth NVNT ac(VHT80) 5775MHz Ant1



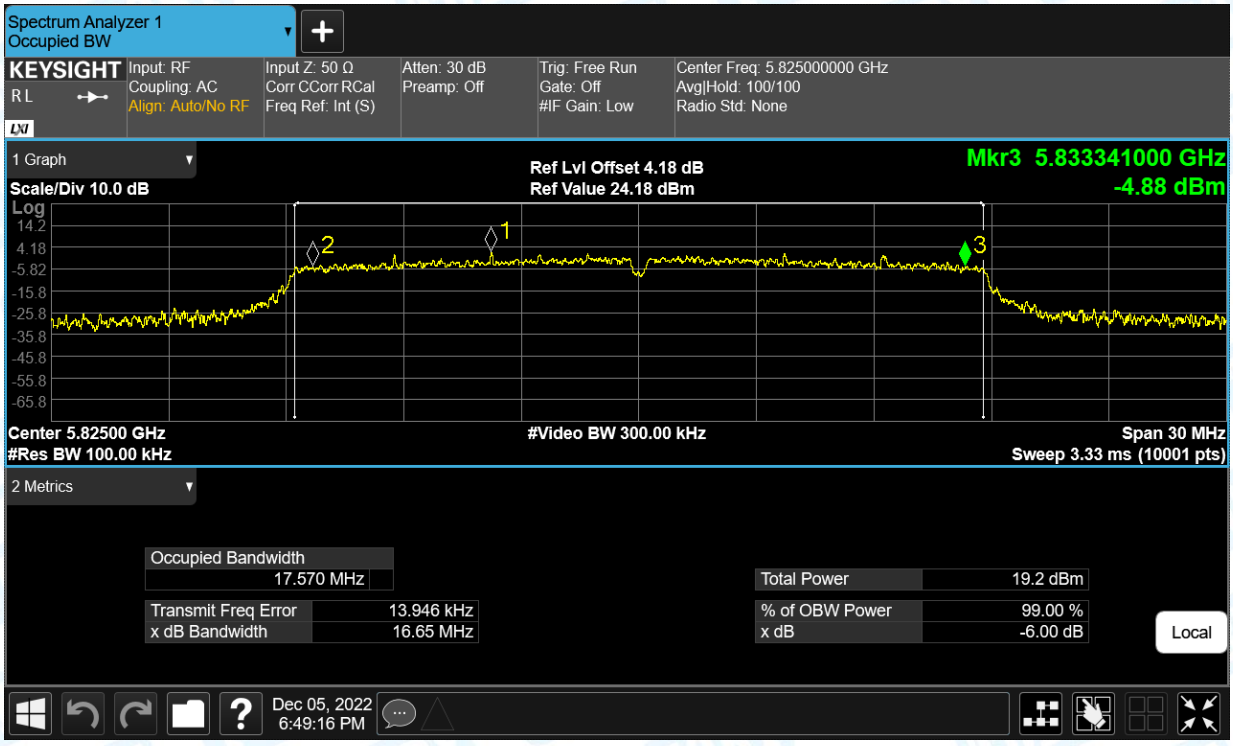
-6dB Bandwidth NVNT n(HT20) 5745MHz Ant1



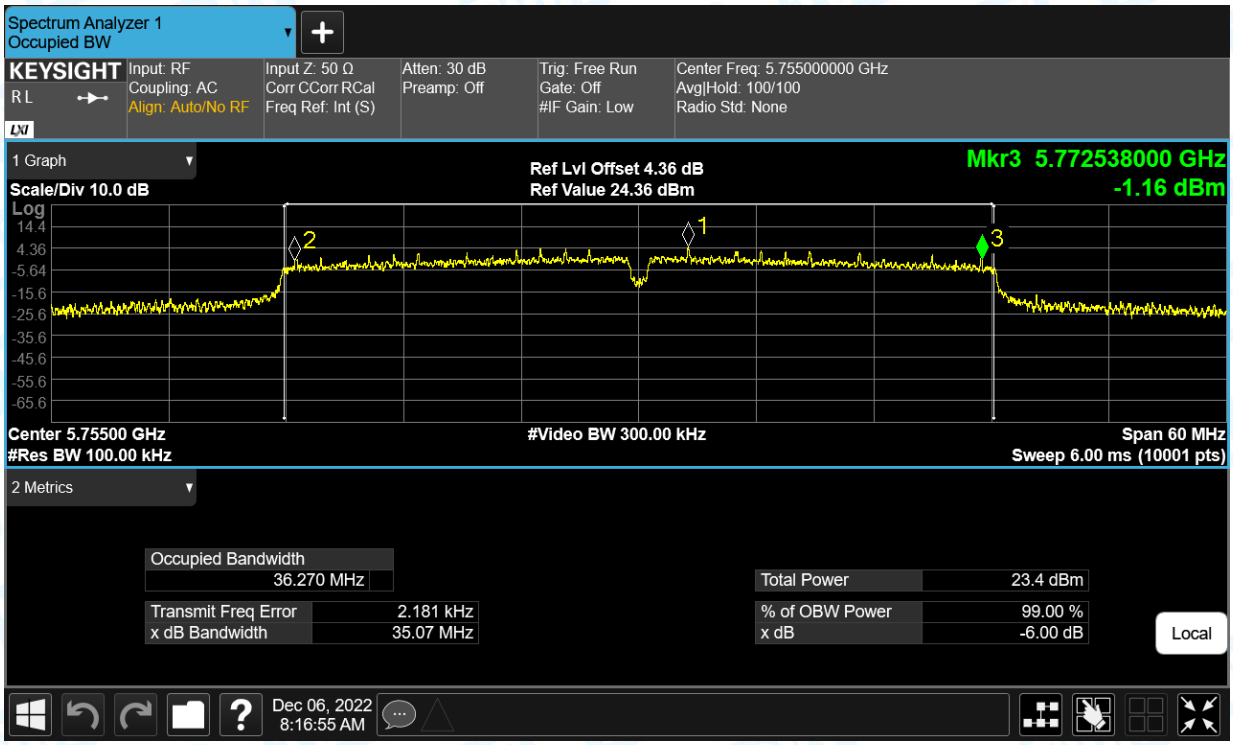
-6dB Bandwidth NVNT n(HT20) 5785MHz Ant1



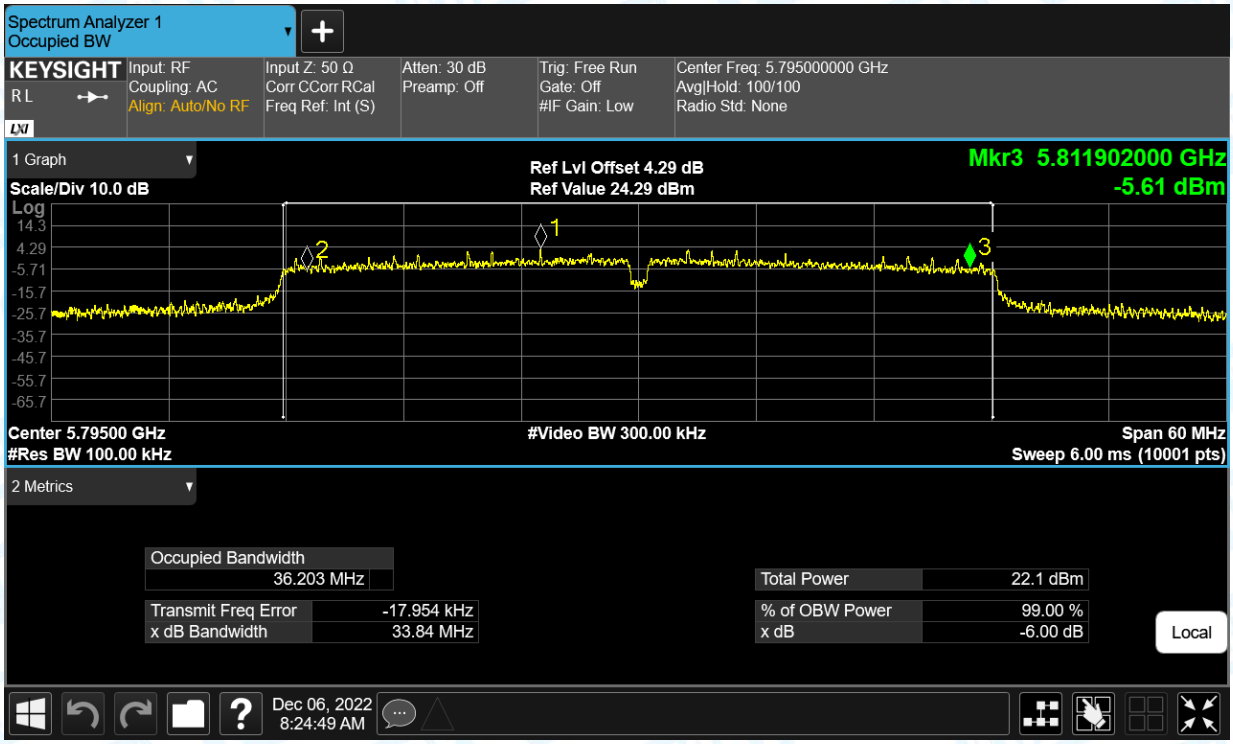
-6dB Bandwidth NVNT n(HT20) 5825MHz Ant1



-6dB Bandwidth NVNT n(HT40) 5755MHz Ant1



-6dB Bandwidth NVNT n(HT40) 5795MHz Ant1

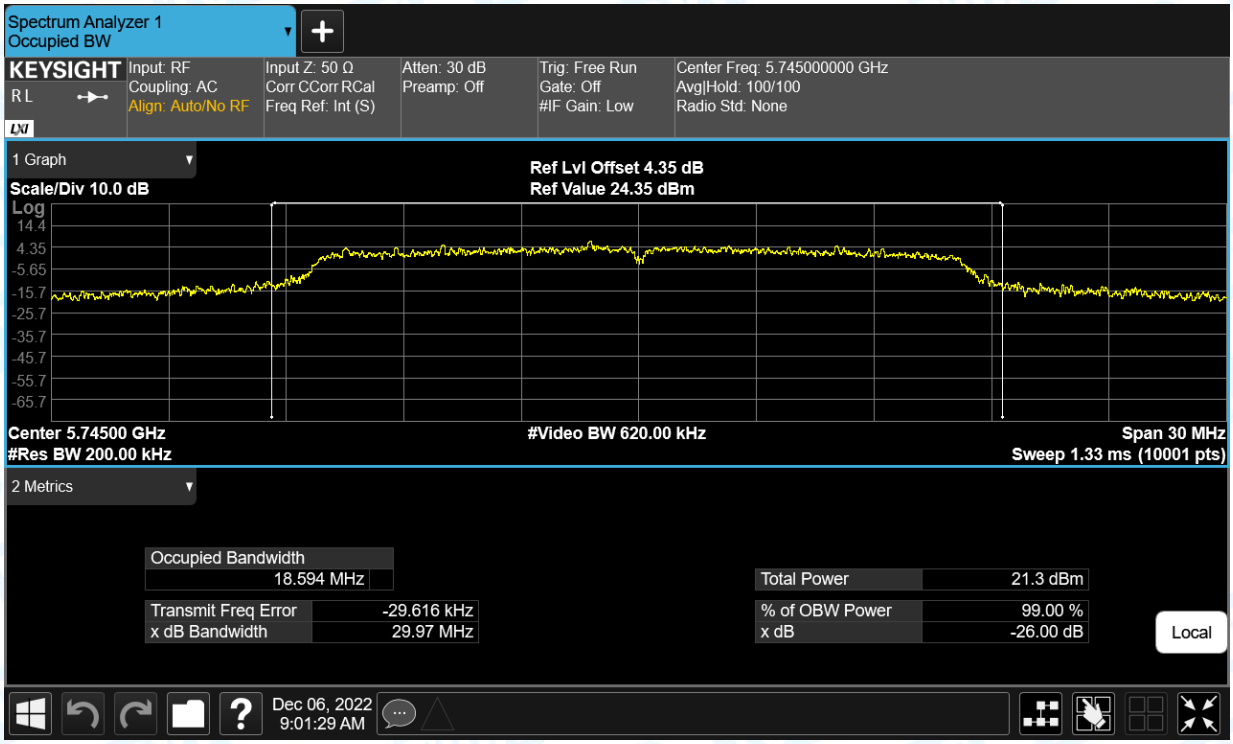


4. Occupied Channel Bandwidth

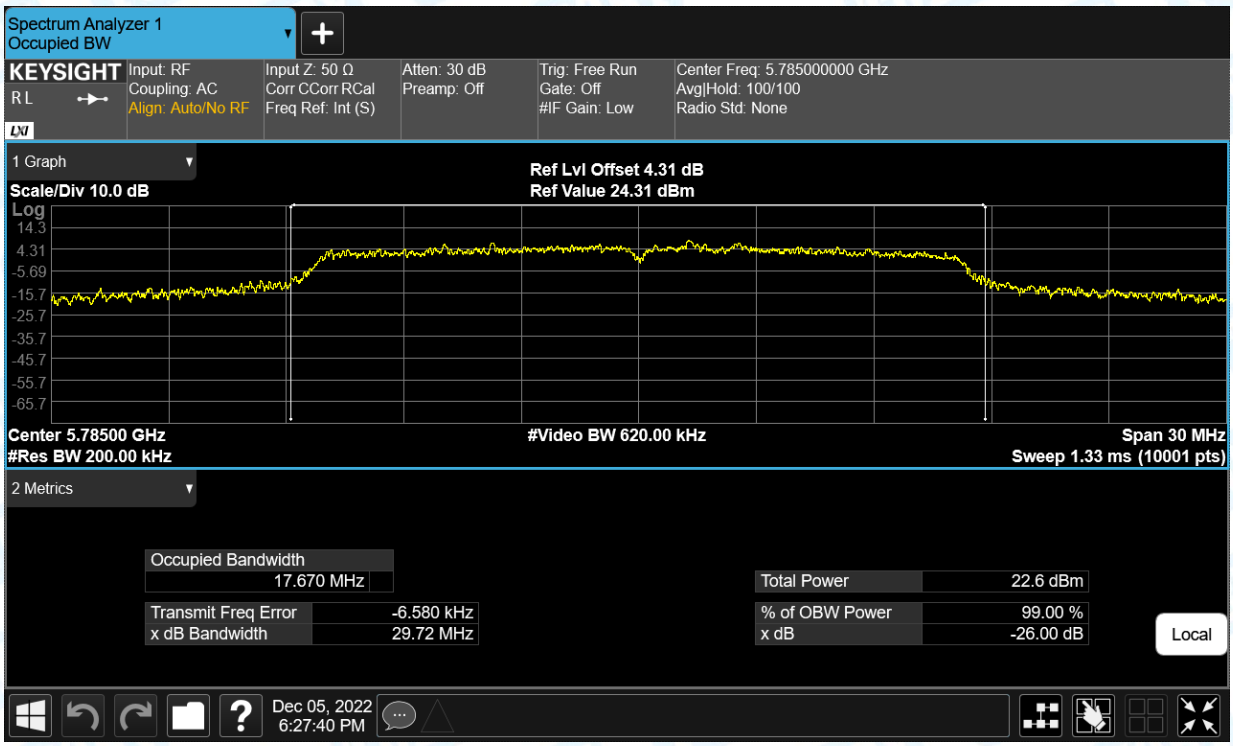
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	18.594
NVNT	a	5785	Ant1	17.67
NVNT	a	5825	Ant1	16.63
NVNT	ac(VHT20)	5745	Ant1	17.942
NVNT	ac(VHT20)	5785	Ant1	18.242
NVNT	ac(VHT20)	5825	Ant1	17.679
NVNT	ac(VHT40)	5755	Ant1	36.389
NVNT	ac(VHT40)	5795	Ant1	36.386
NVNT	ac(VHT80)	5775	Ant1	75.778
NVNT	n(HT20)	5745	Ant1	17.602
NVNT	n(HT20)	5785	Ant1	17.747
NVNT	n(HT20)	5825	Ant1	17.626
NVNT	n(HT40)	5755	Ant1	36.522
NVNT	n(HT40)	5795	Ant1	36.344

Test Graphs

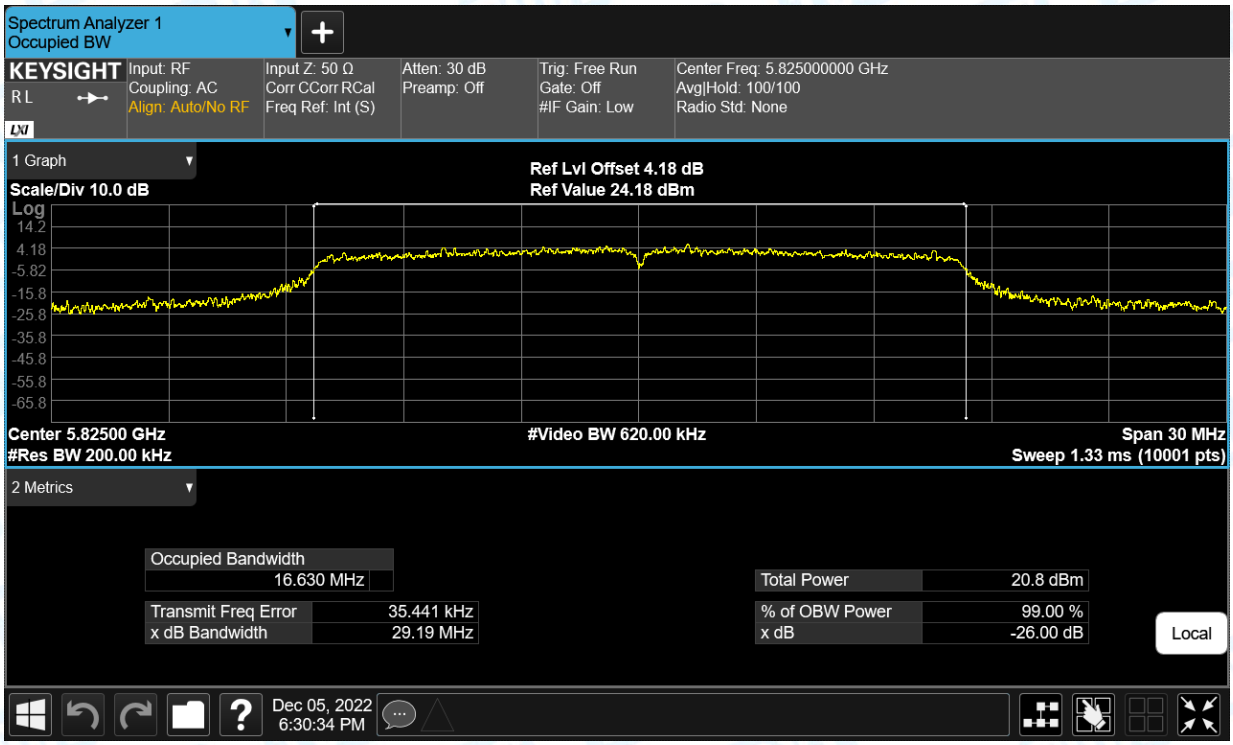
OBW NVNT a 5745MHz Ant1



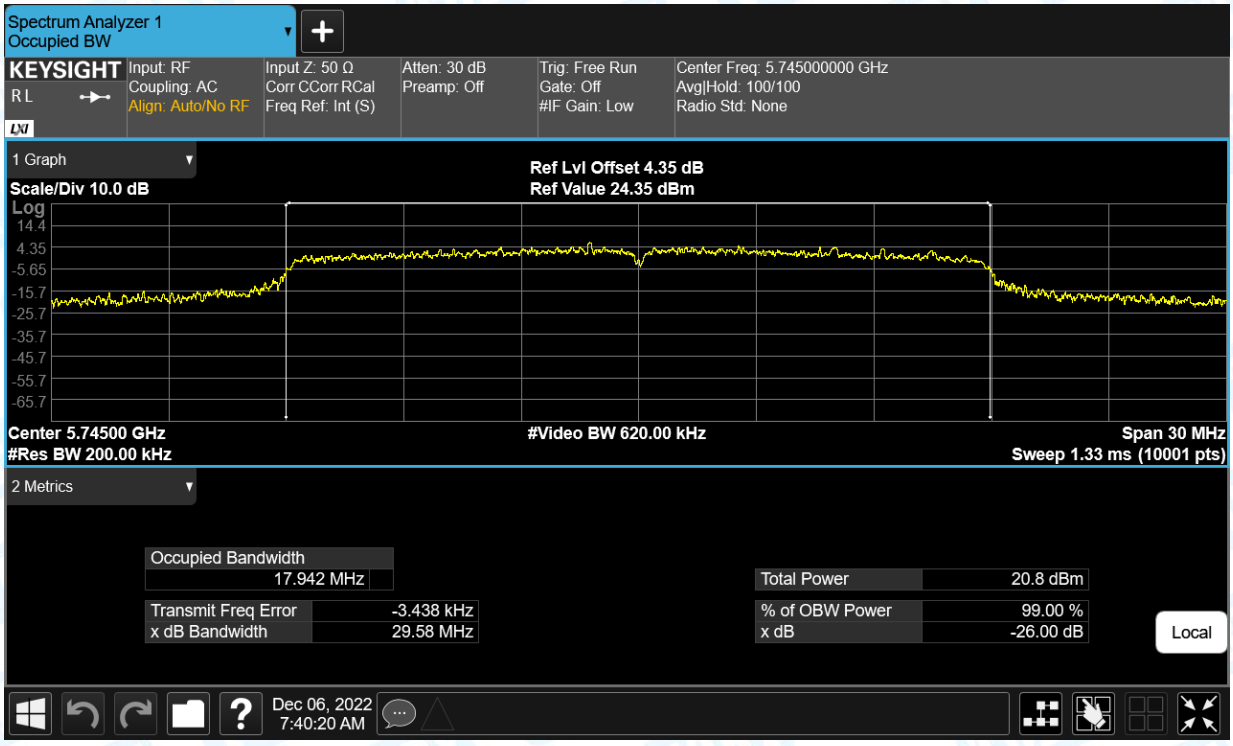
OBW NVNT a 5785MHz Ant1



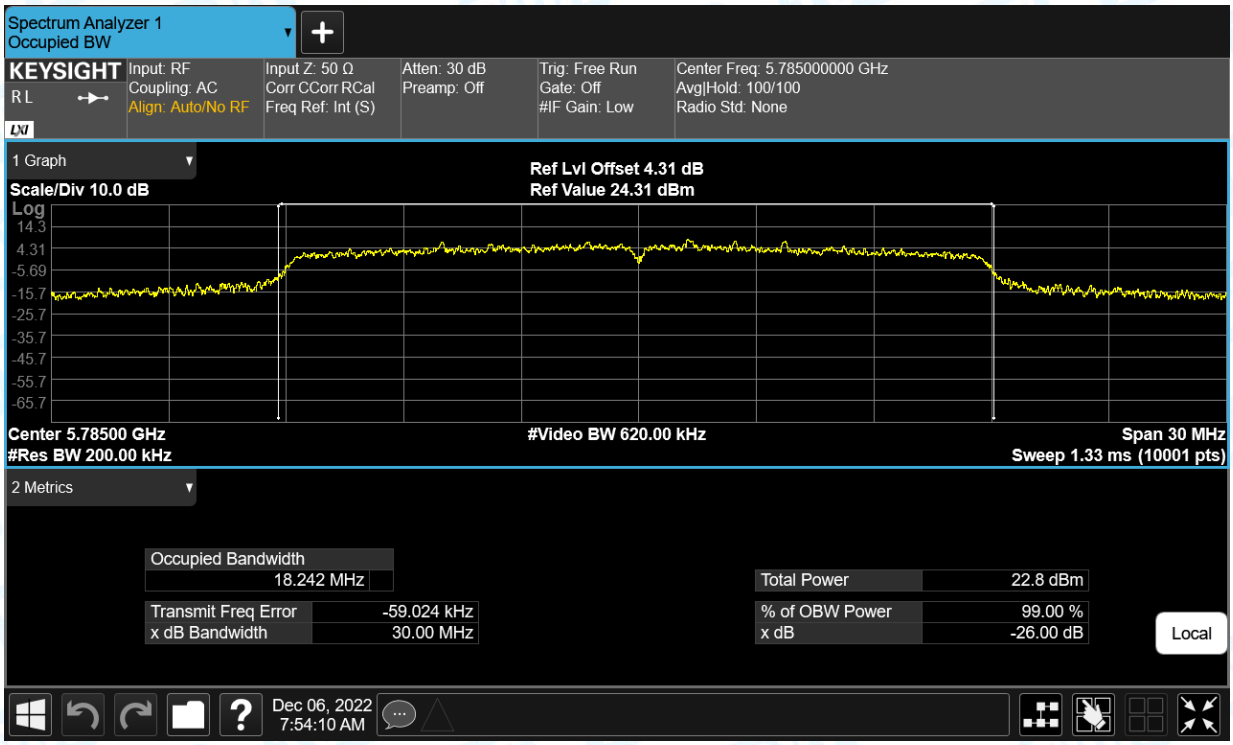
OBW NVNT a 5825MHz Ant1



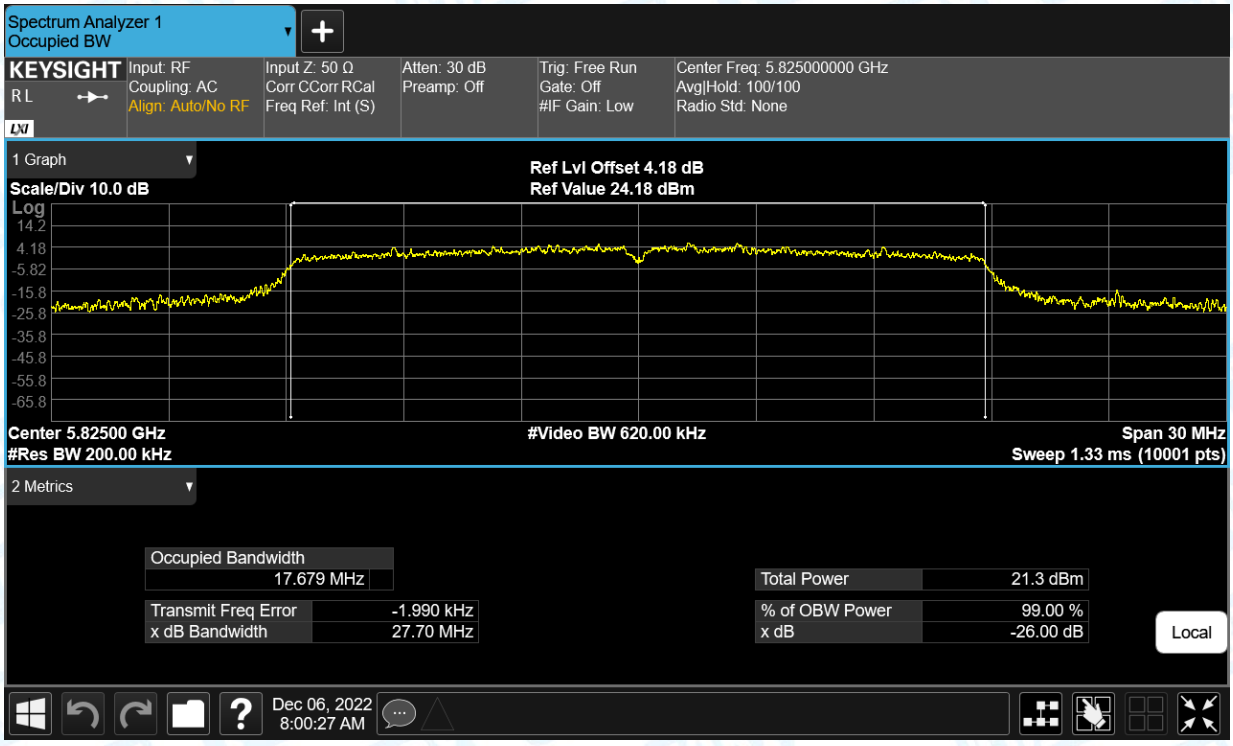
OBW NVNT ac(VHT20) 5745MHz Ant1



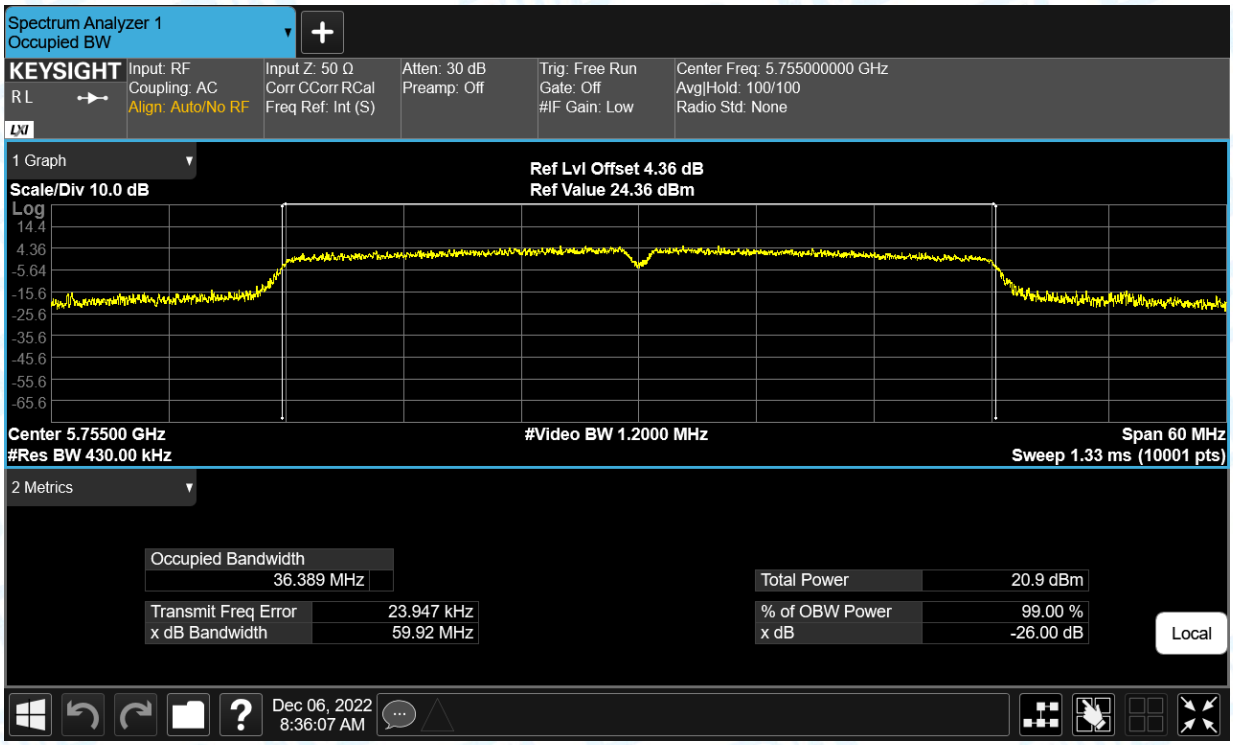
OBW NVNT ac(VHT20) 5785MHz Ant1



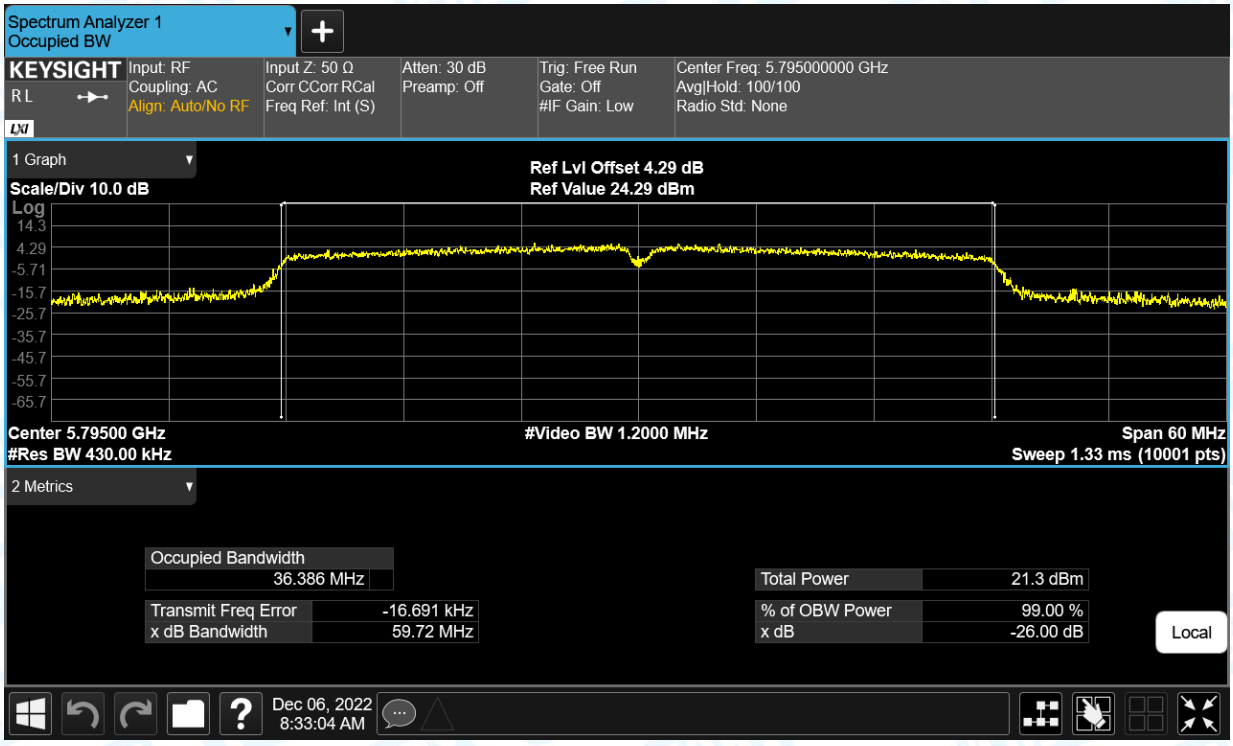
OBW NVNT ac(VHT20) 5825MHz Ant1



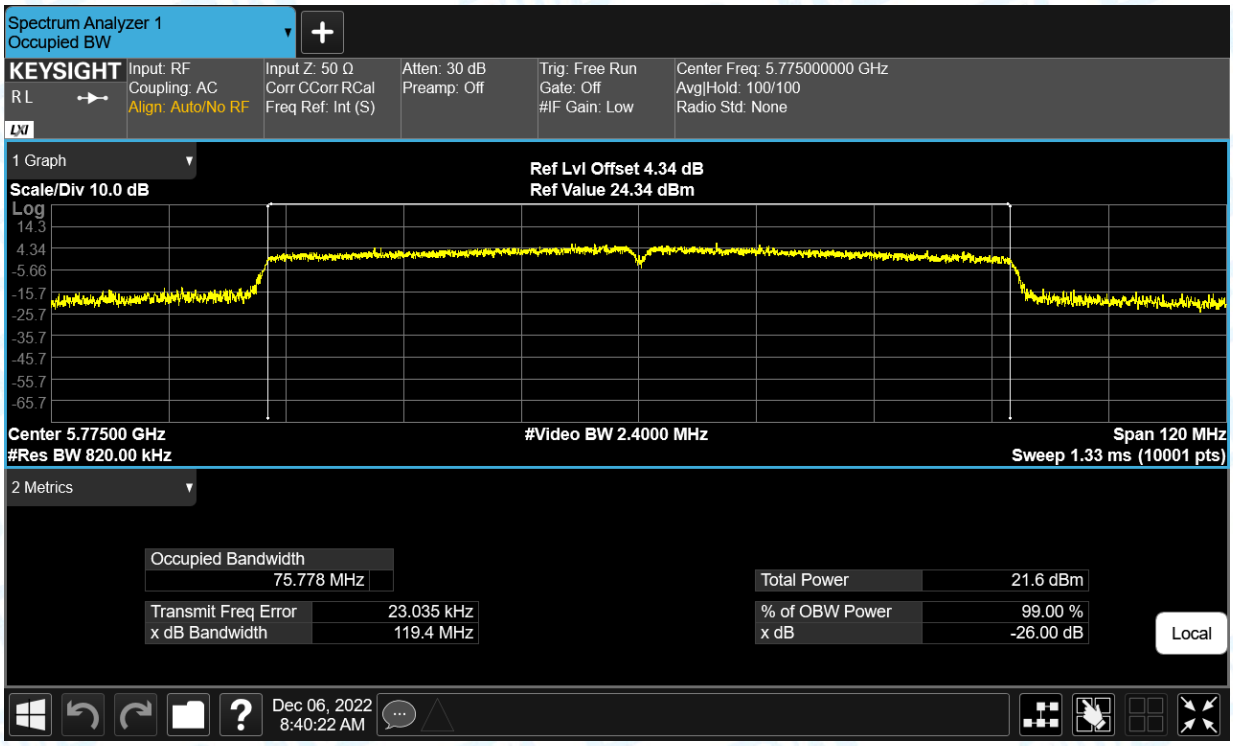
OBW NVNT ac(VHT40) 5755MHz Ant1



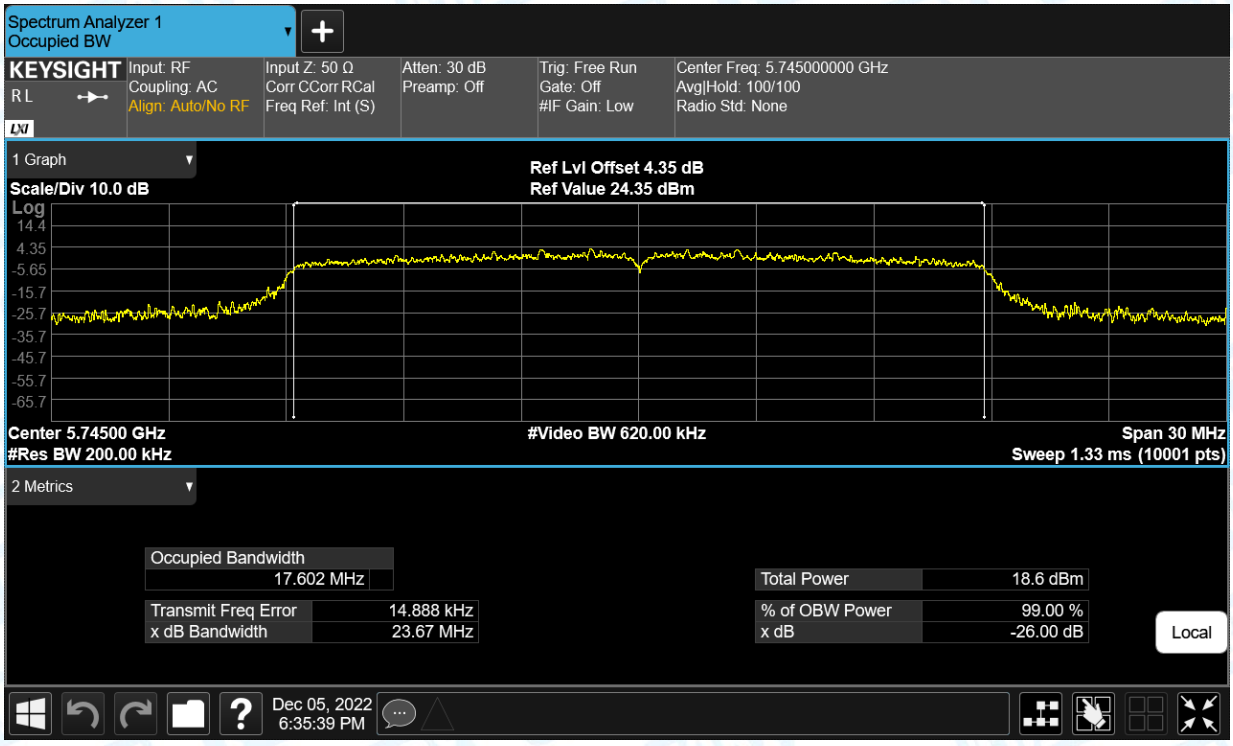
OBW NVNT ac(VHT40) 5795MHz Ant1



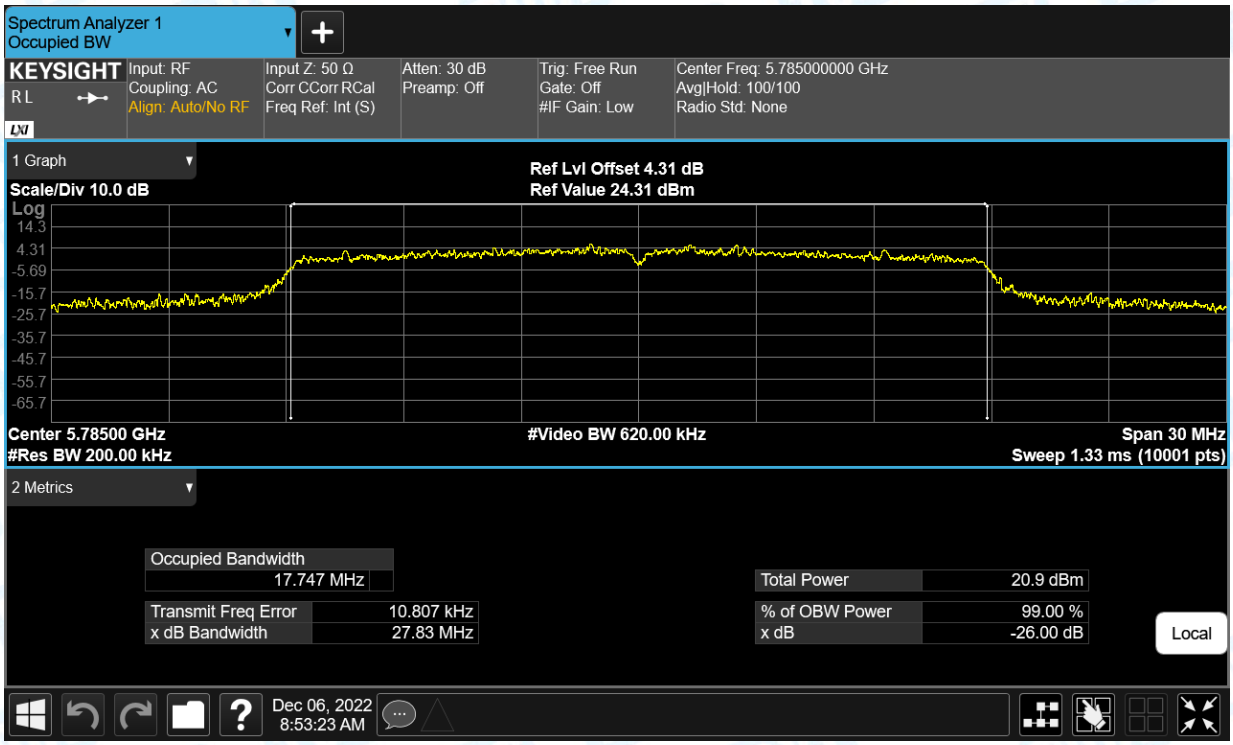
OBW NVNT ac(VHT80) 5775MHz Ant1



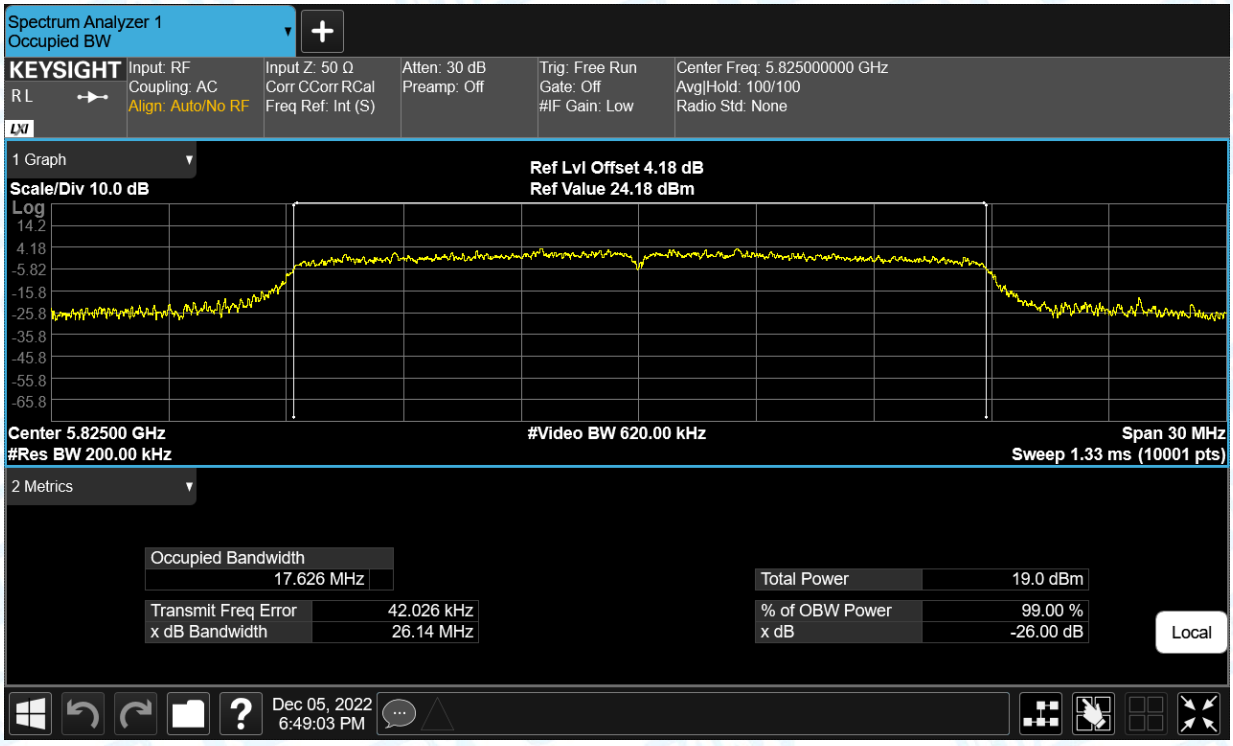
OBW NVNT n(HT20) 5745MHz Ant1



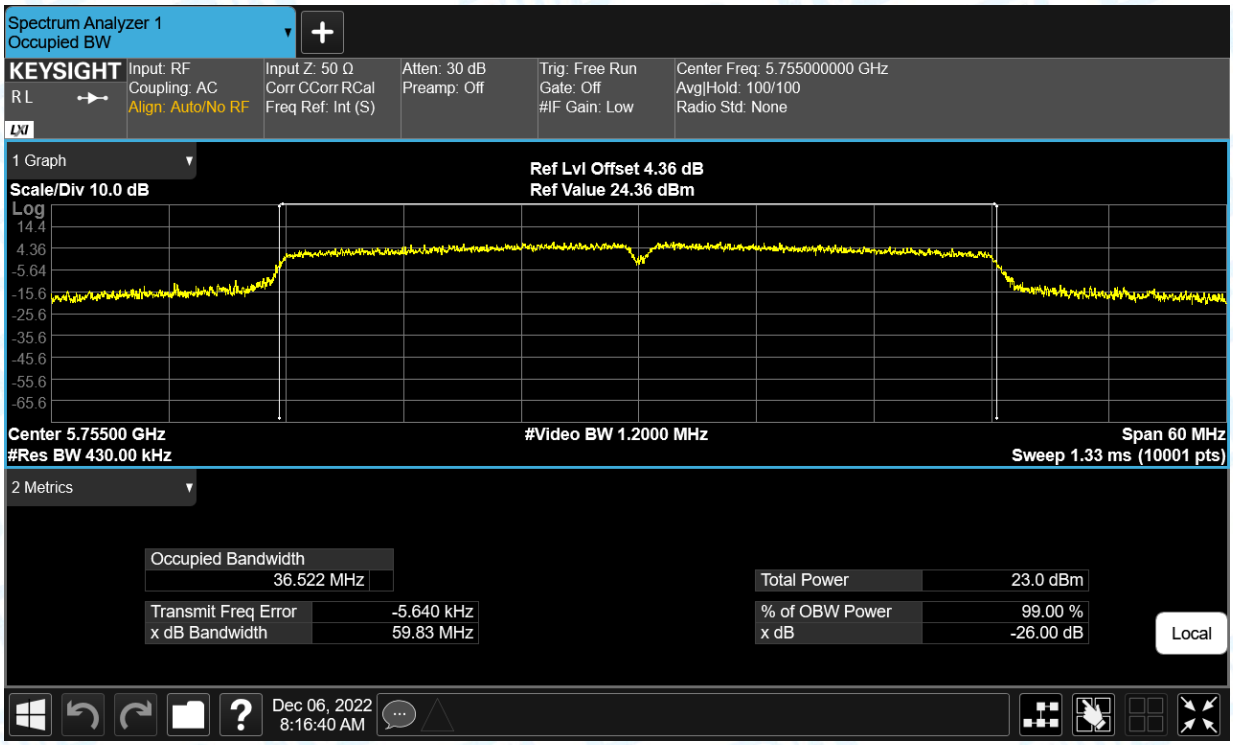
OBW NVNT n(HT20) 5785MHz Ant1



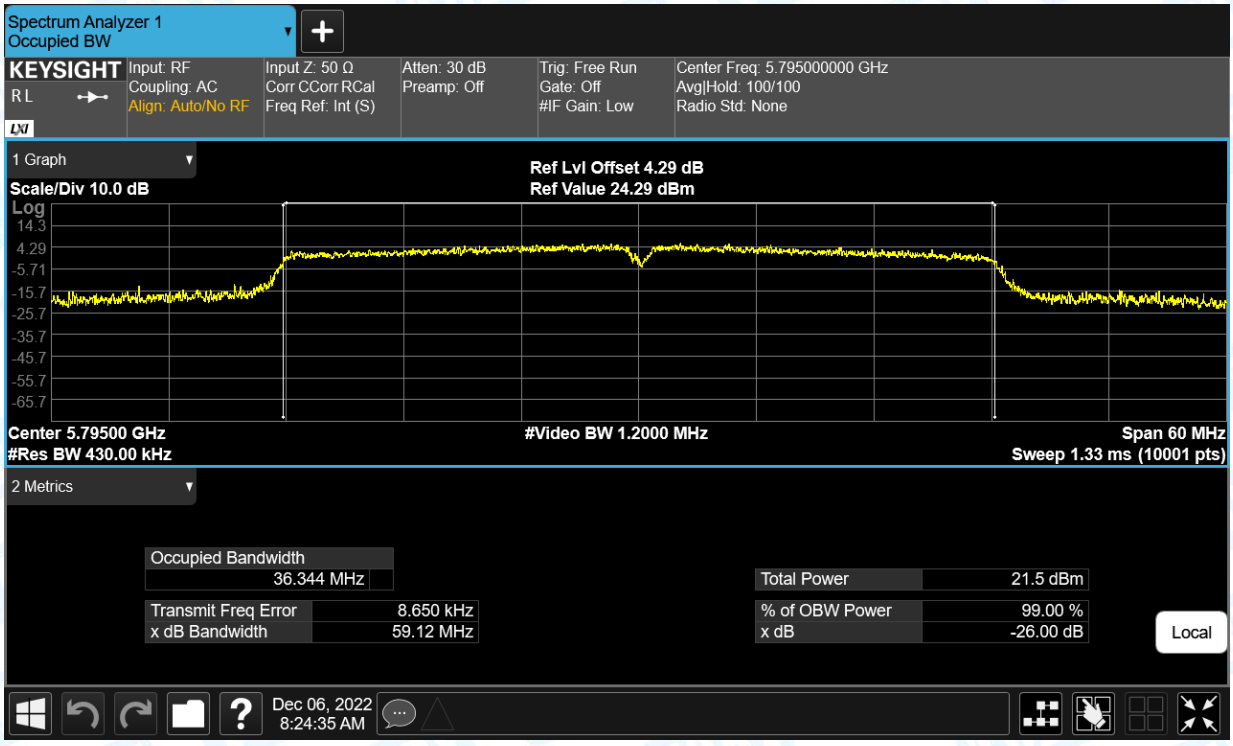
OBW NVNT n(HT20) 5825MHz Ant1



OBW NVNT n(HT40) 5755MHz Ant1



OBW NVNT n(HT40) 5795MHz Ant1



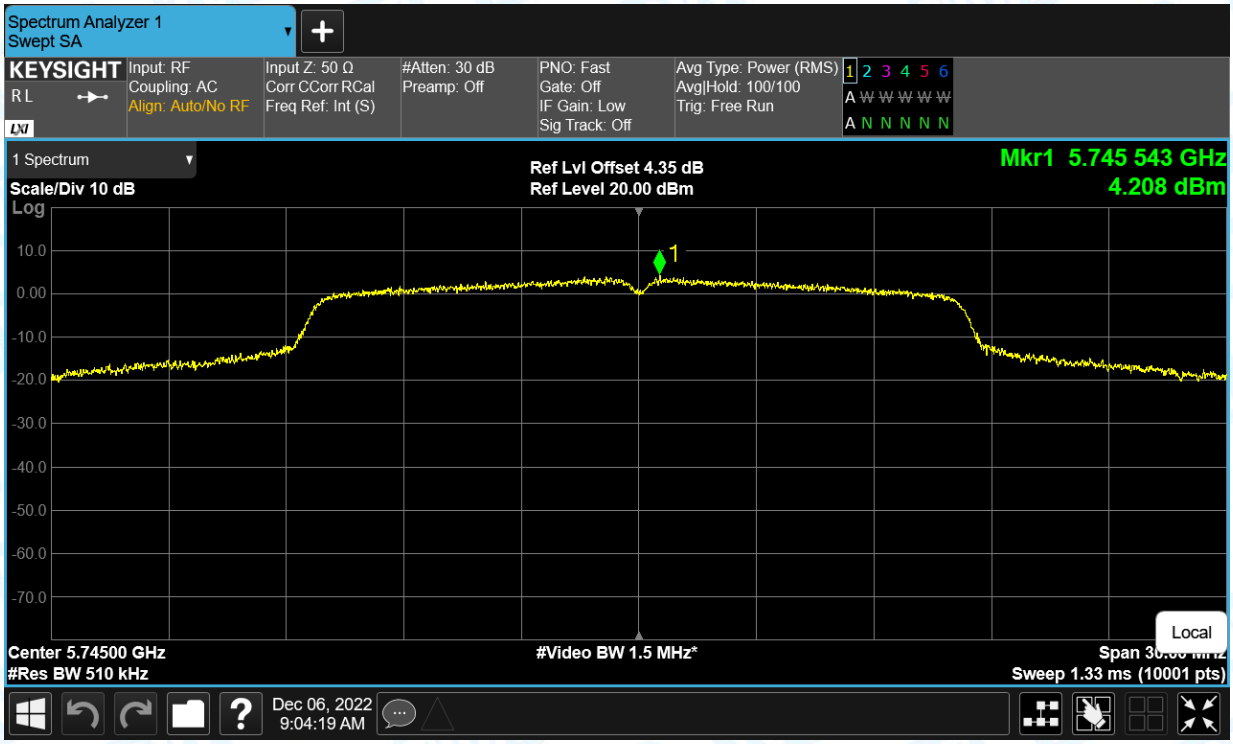
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	Ant1	4.208	30	Pass
NVNT	a	5785	Ant1	4.082	30	Pass
NVNT	a	5825	Ant1	4.319	30	Pass
NVNT	ac(VHT20)	5745	Ant1	3.204	30	Pass
NVNT	ac(VHT20)	5785	Ant1	4.186	30	Pass
NVNT	ac(VHT20)	5825	Ant1	2.821	30	Pass
NVNT	ac(VHT40)	5755	Ant1	-0.578	30	Pass
NVNT	ac(VHT40)	5795	Ant1	-0.348	30	Pass
NVNT	ac(VHT80)	5775	Ant1	-4.561	30	Pass
NVNT	n(HT20)	5745	Ant1	2.793	30	Pass
NVNT	n(HT20)	5785	Ant1	3.007	30	Pass
NVNT	n(HT20)	5825	Ant1	3.437	30	Pass
NVNT	n(HT40)	5755	Ant1	0.012	30	Pass
NVNT	n(HT40)	5795	Ant1	0.609	30	Pass

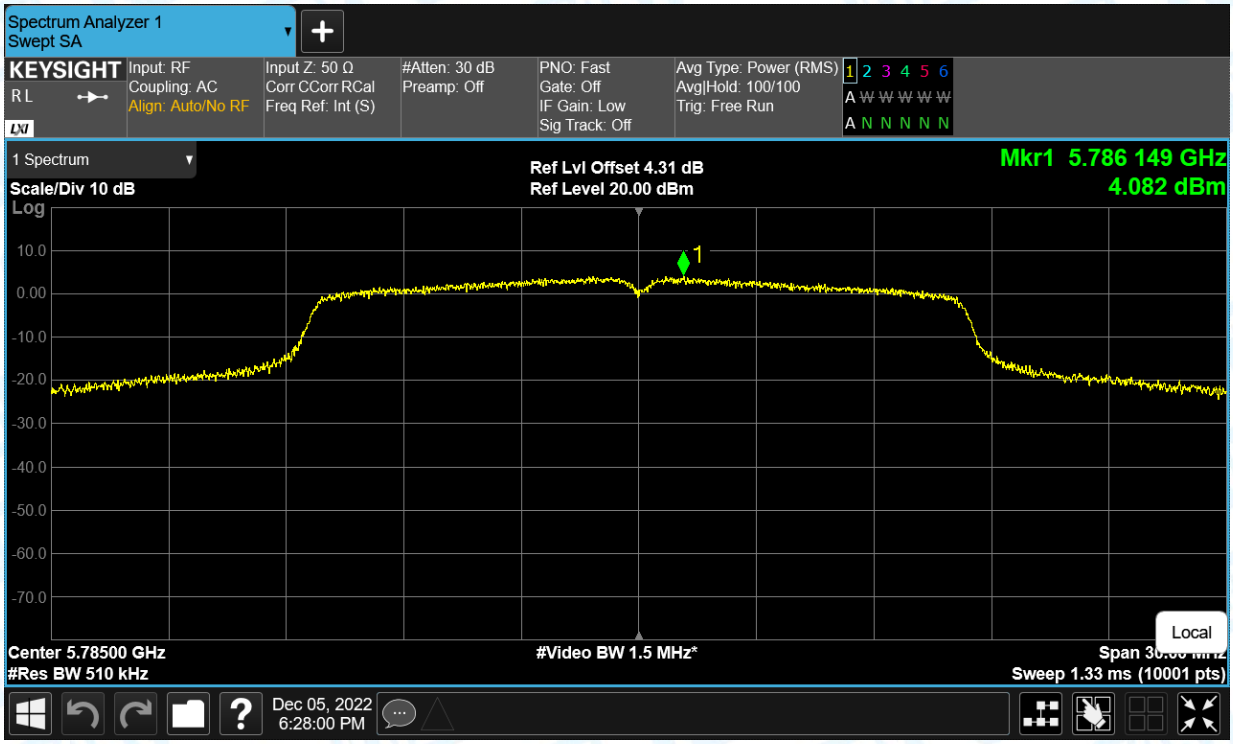
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

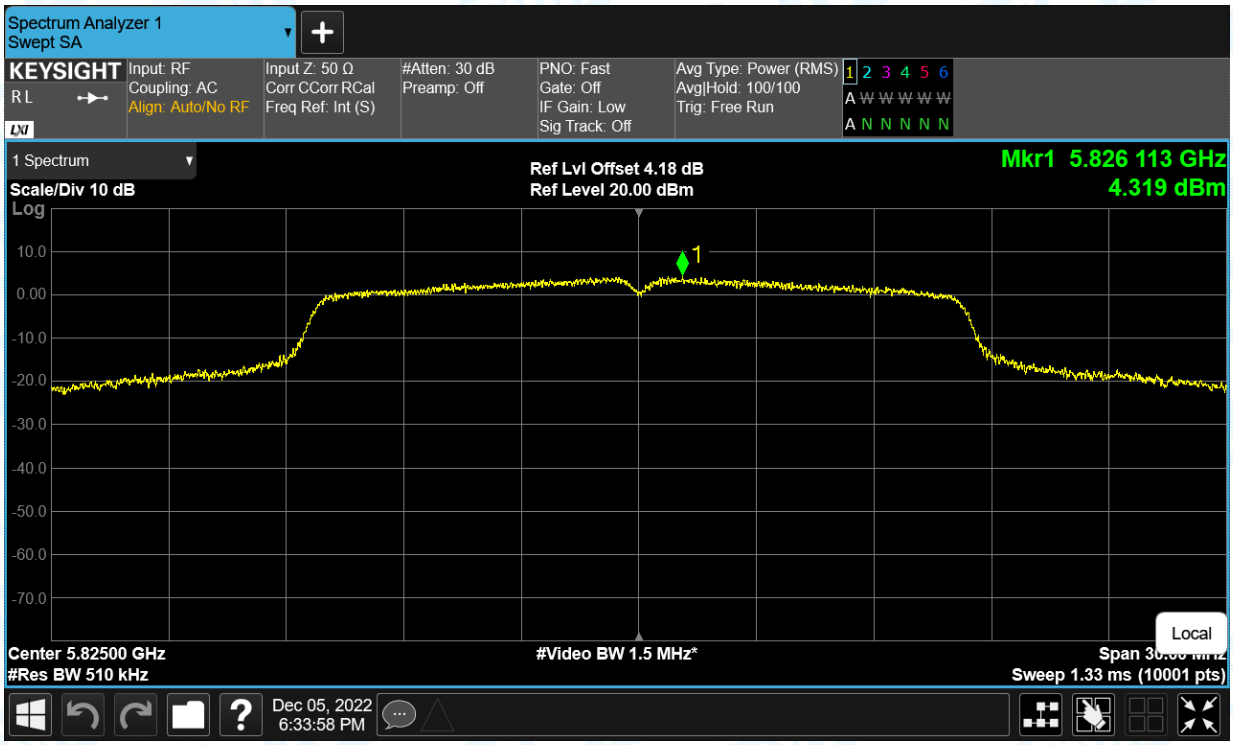
PSD NVNT a 5745MHz Ant1



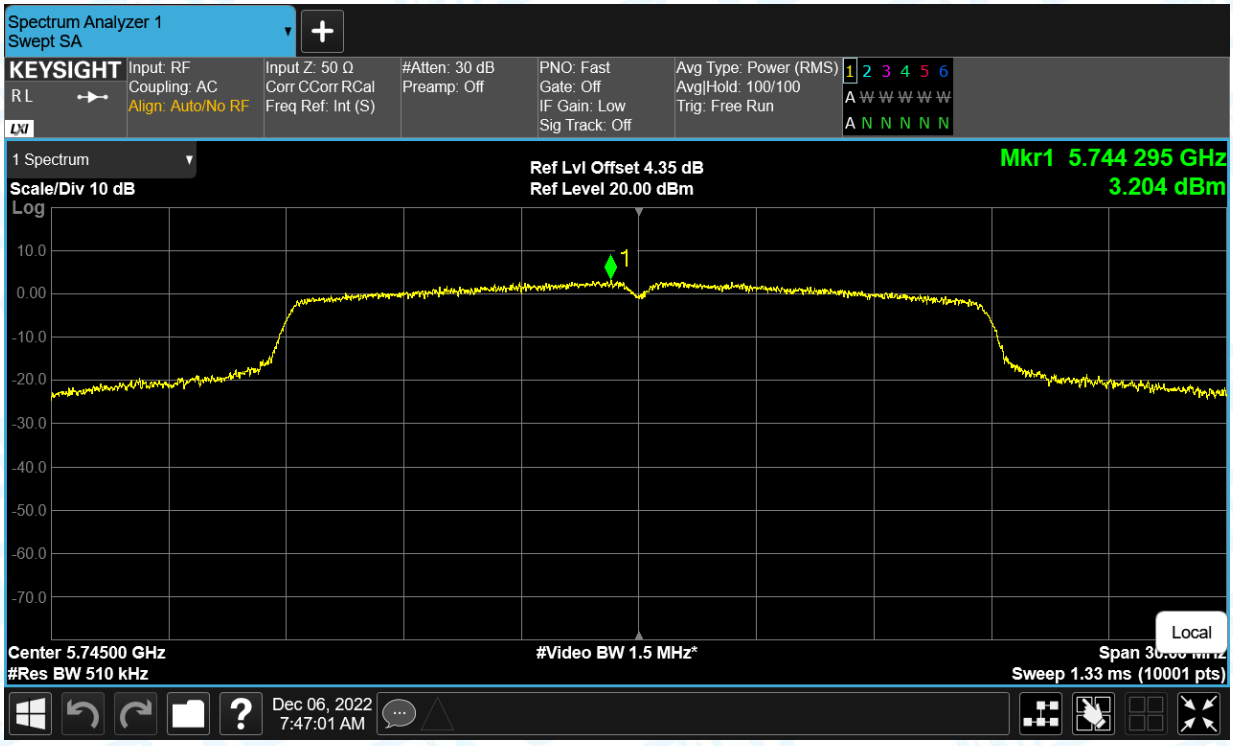
PSD NVNT a 5785MHz Ant1



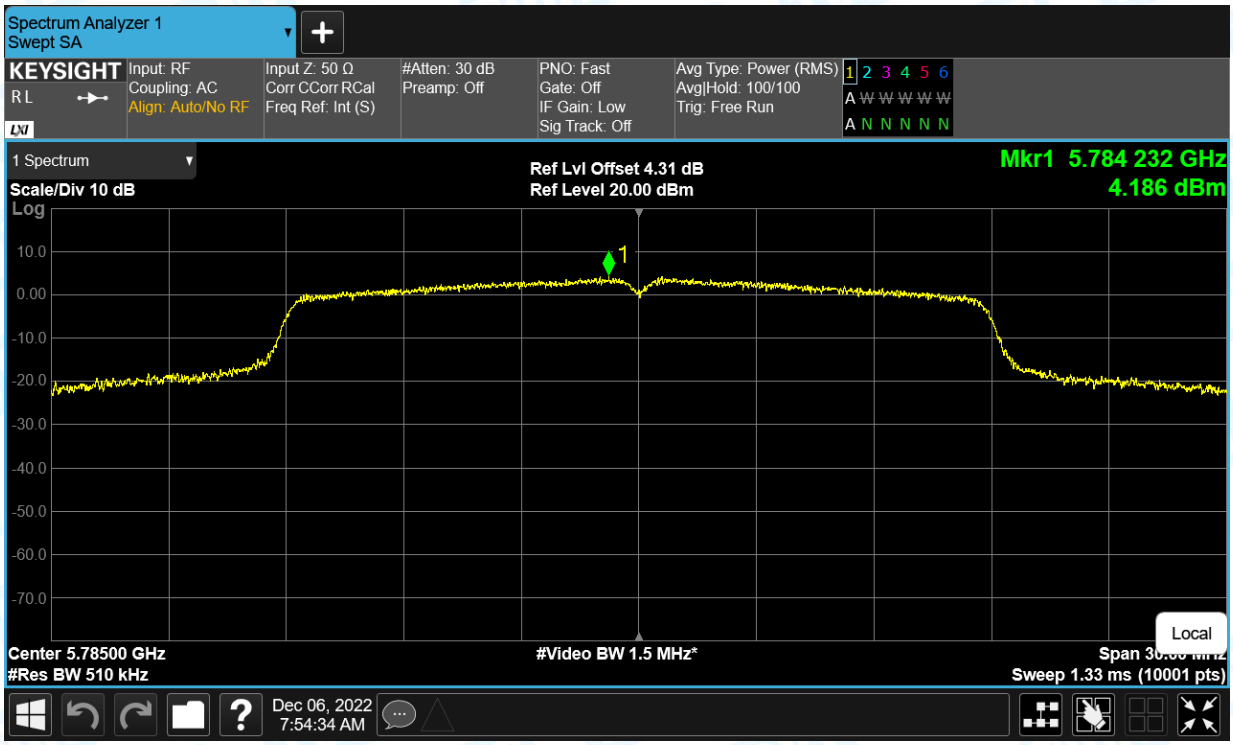
PSD NVNT a 5825MHz Ant1



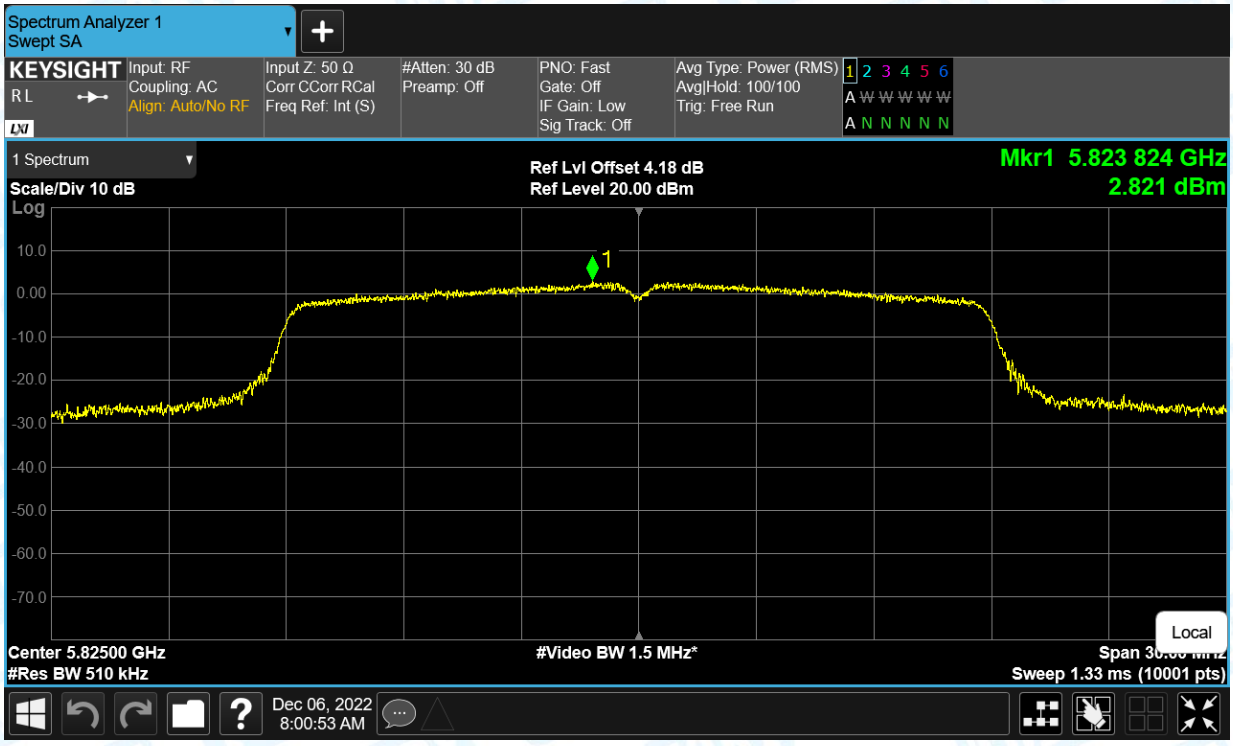
PSD NVNT ac(VHT20) 5745MHz Ant1



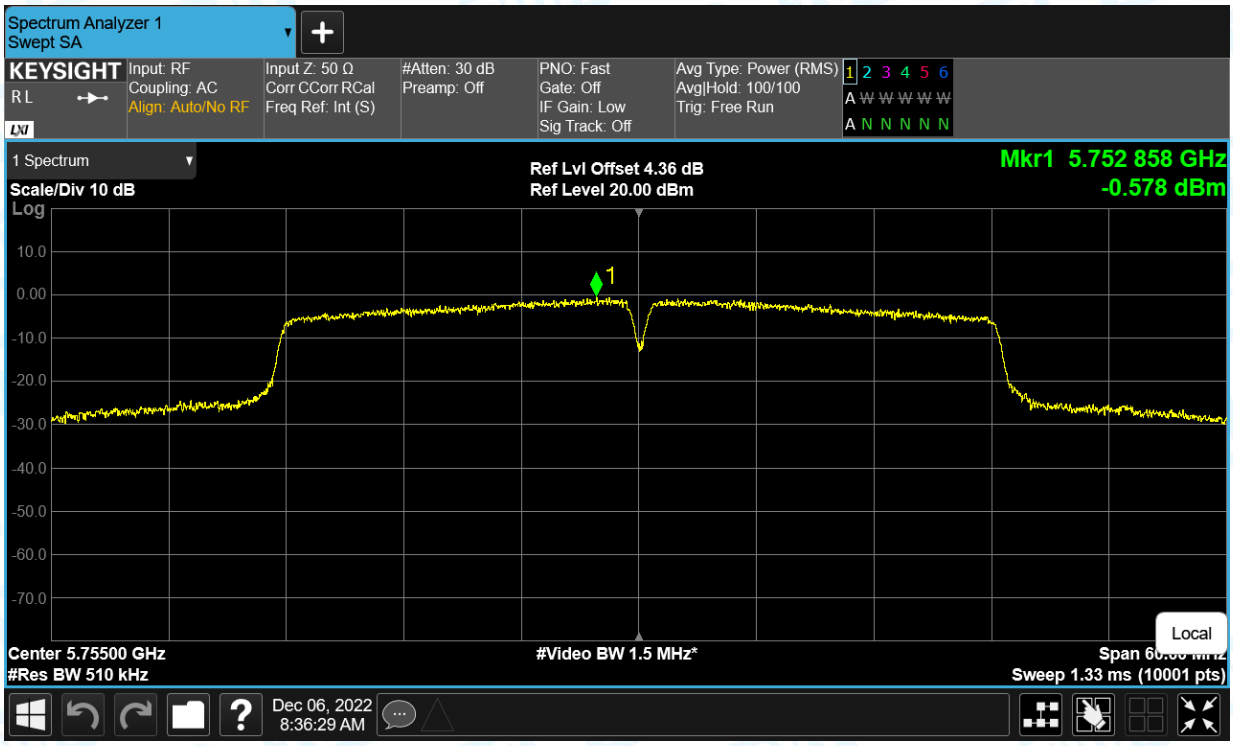
PSD NVNT ac(VHT20) 5785MHz Ant1



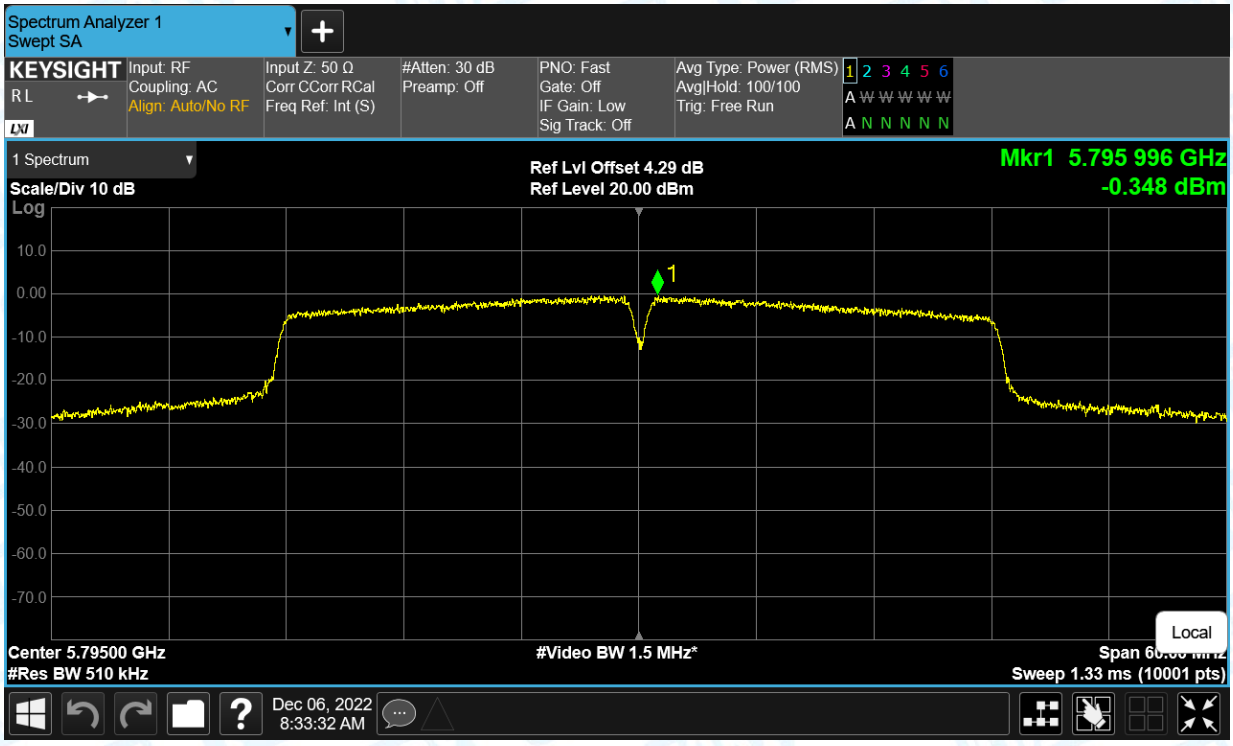
PSD NVNT ac(VHT20) 5825MHz Ant1



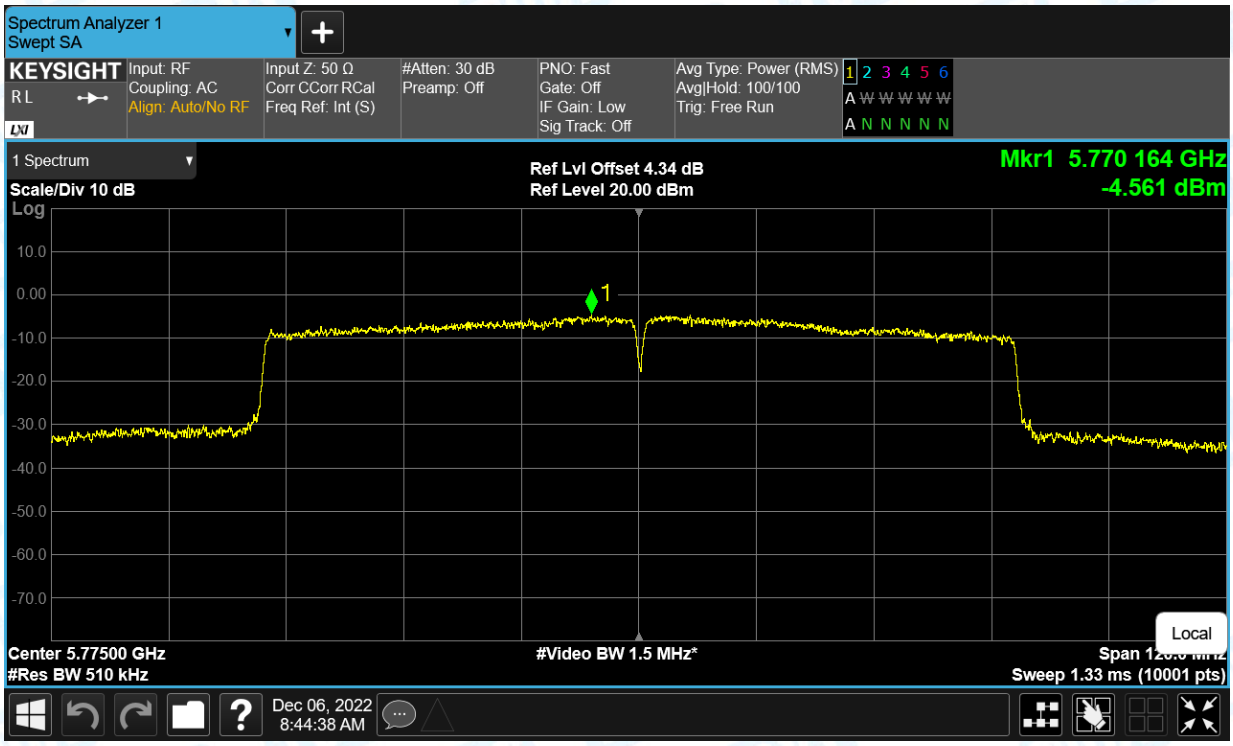
PSD NVNT ac(VHT40) 5755MHz Ant1



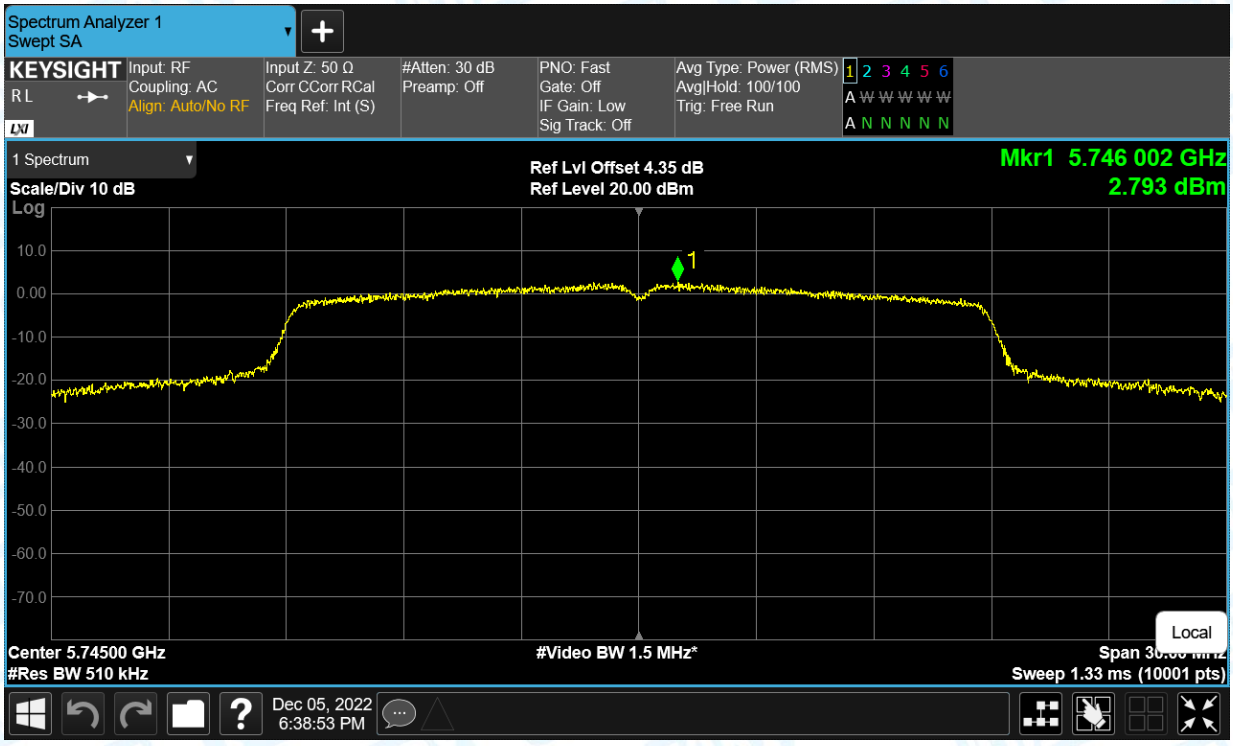
PSD NVNT ac(VHT40) 5795MHz Ant1



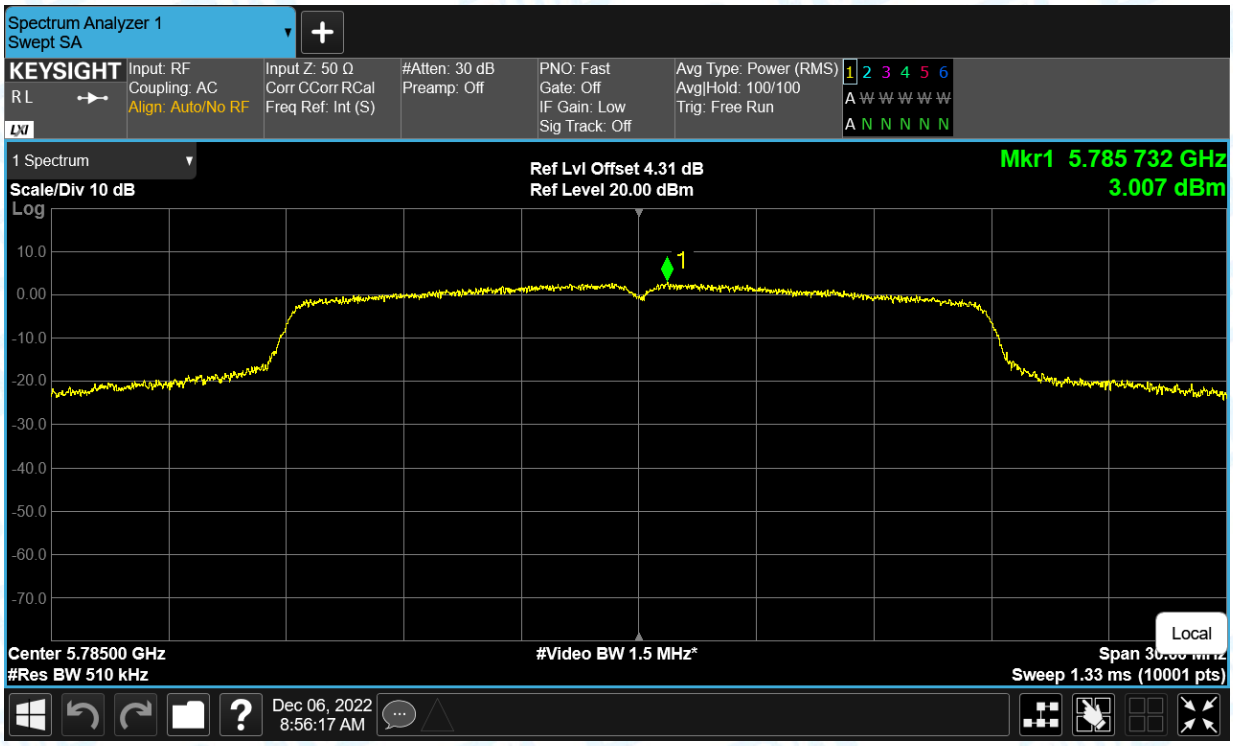
PSD NVNT ac(VHT80) 5775MHz Ant1



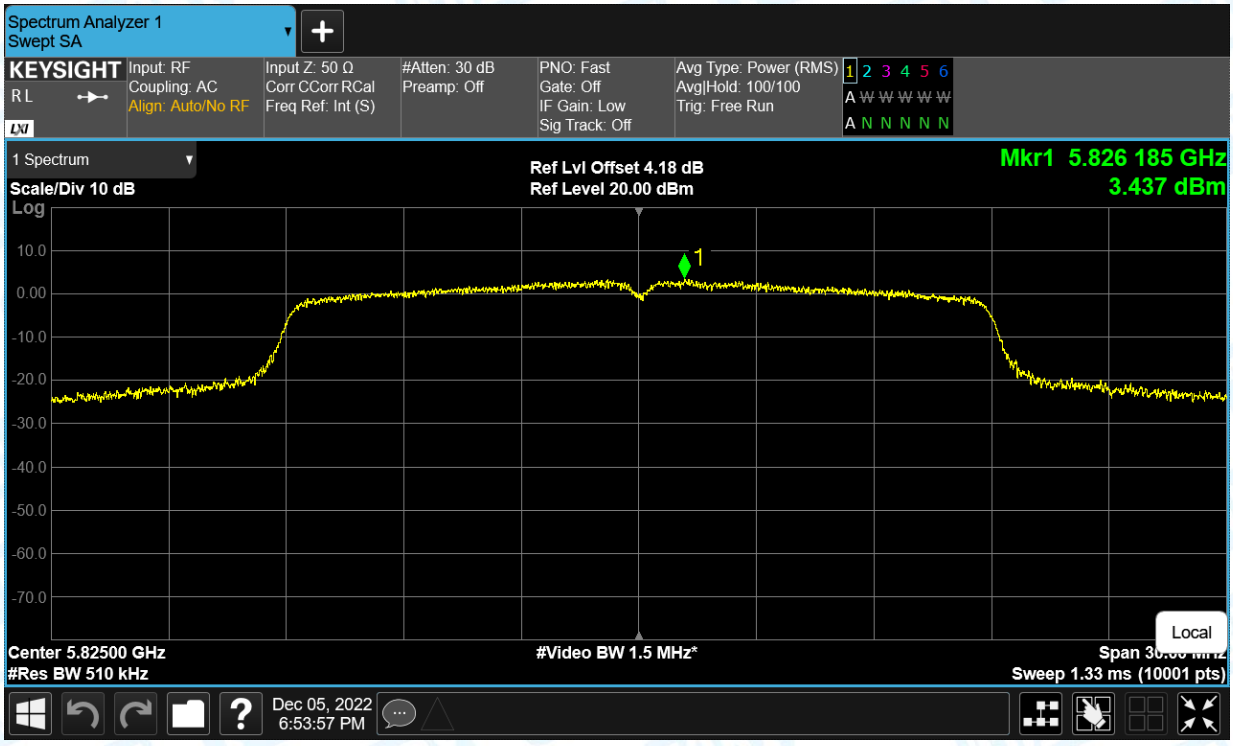
PSD NVNT n(HT20) 5745MHz Ant1



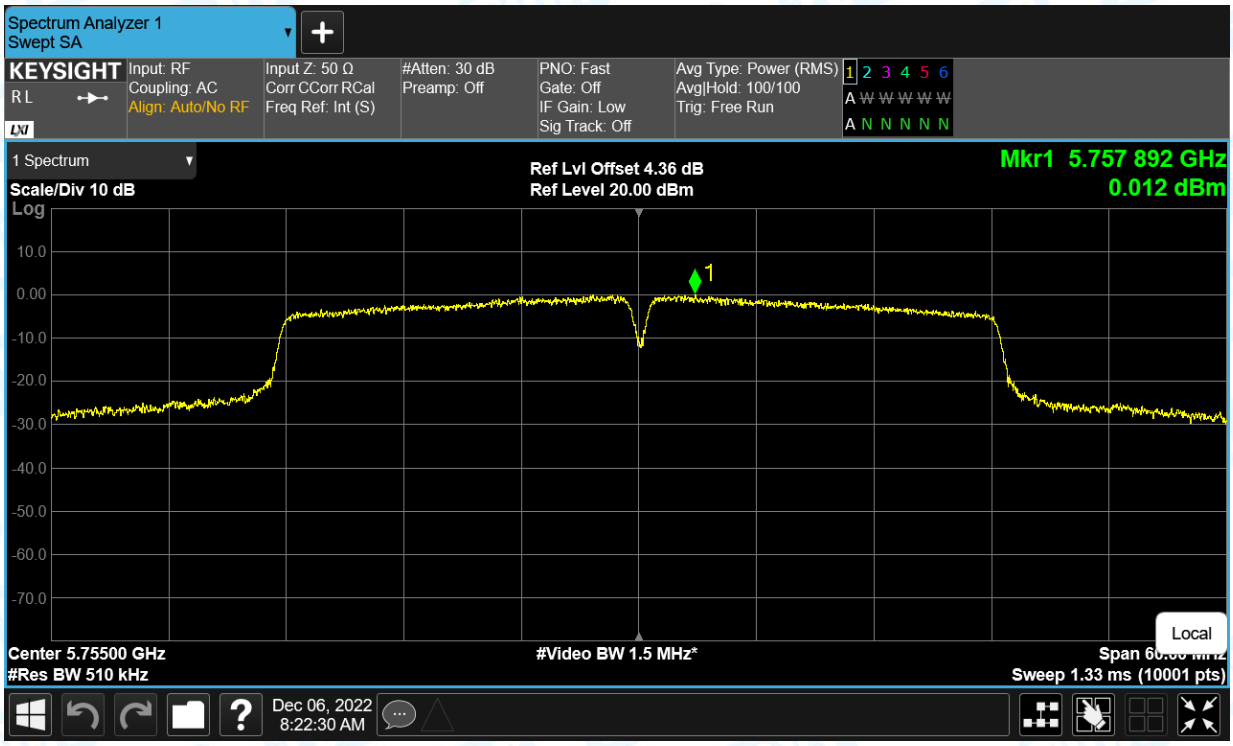
PSD NVNT n(HT20) 5785MHz Ant1



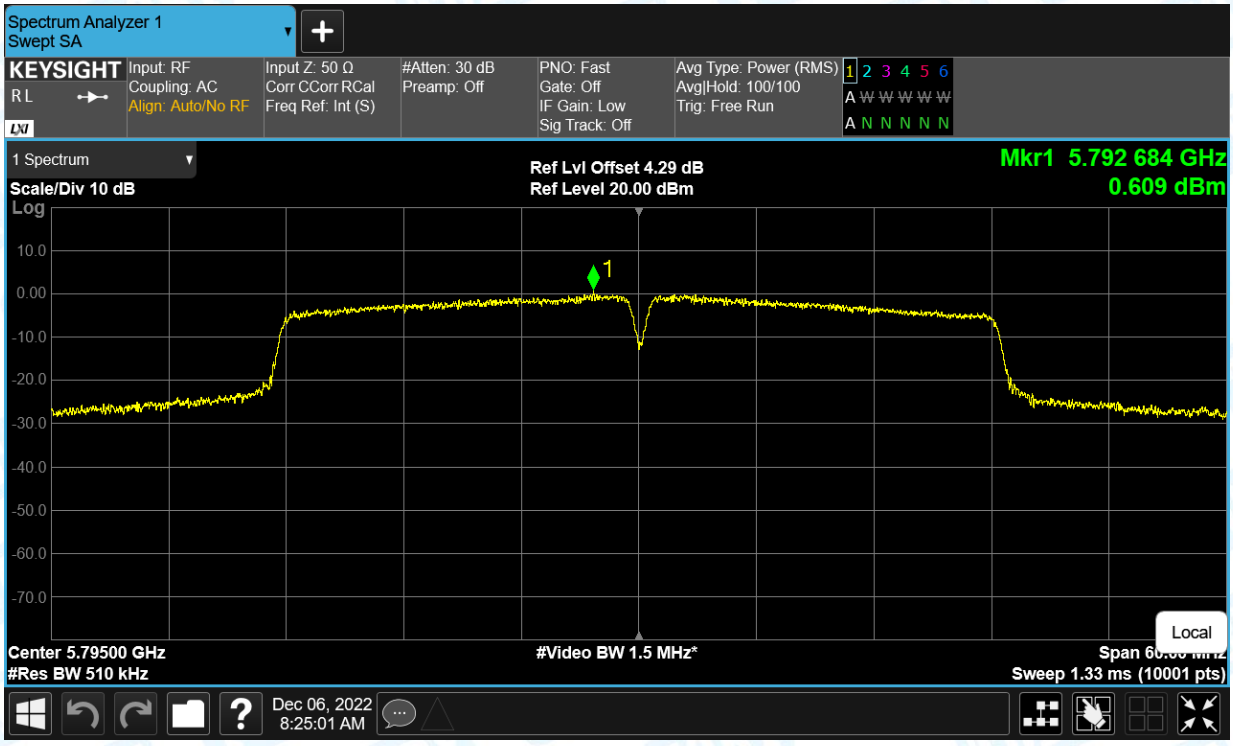
PSD NVNT n(HT20) 5825MHz Ant1



PSD NVNT n(HT40) 5755MHz Ant1



PSD NVNT n(HT40) 5795MHz Ant1

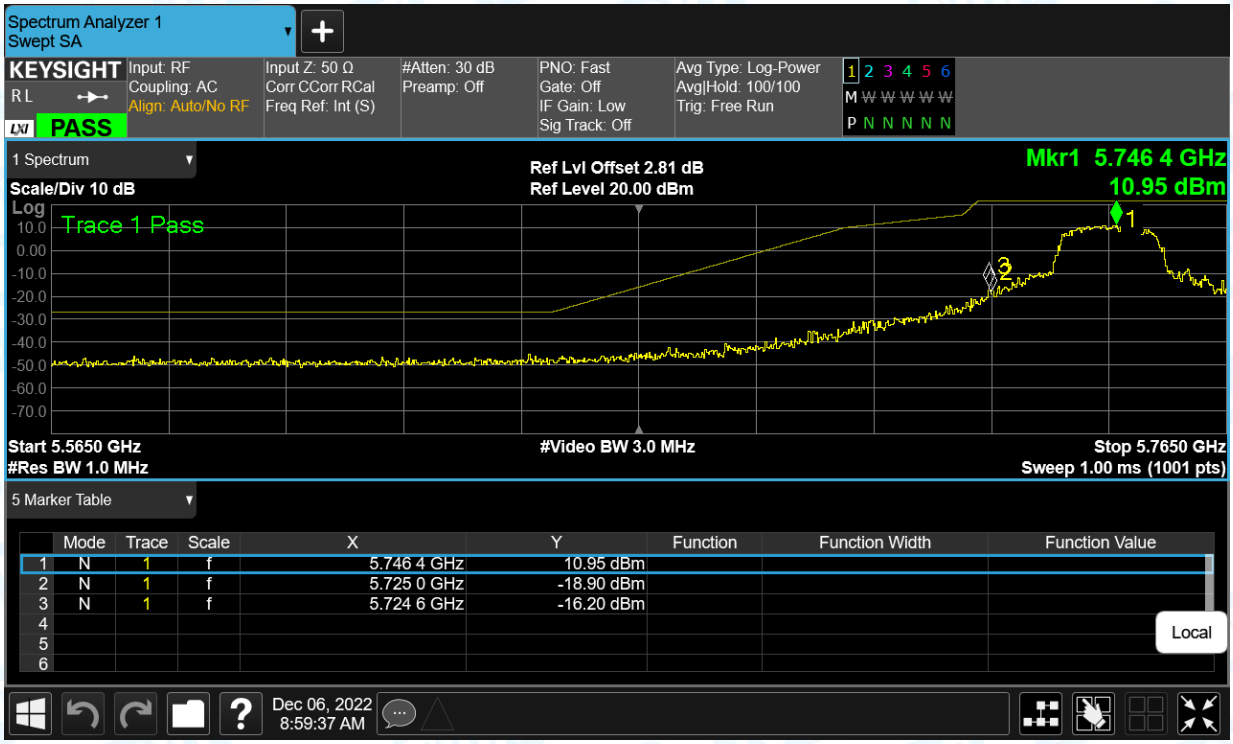


6. Band Edge

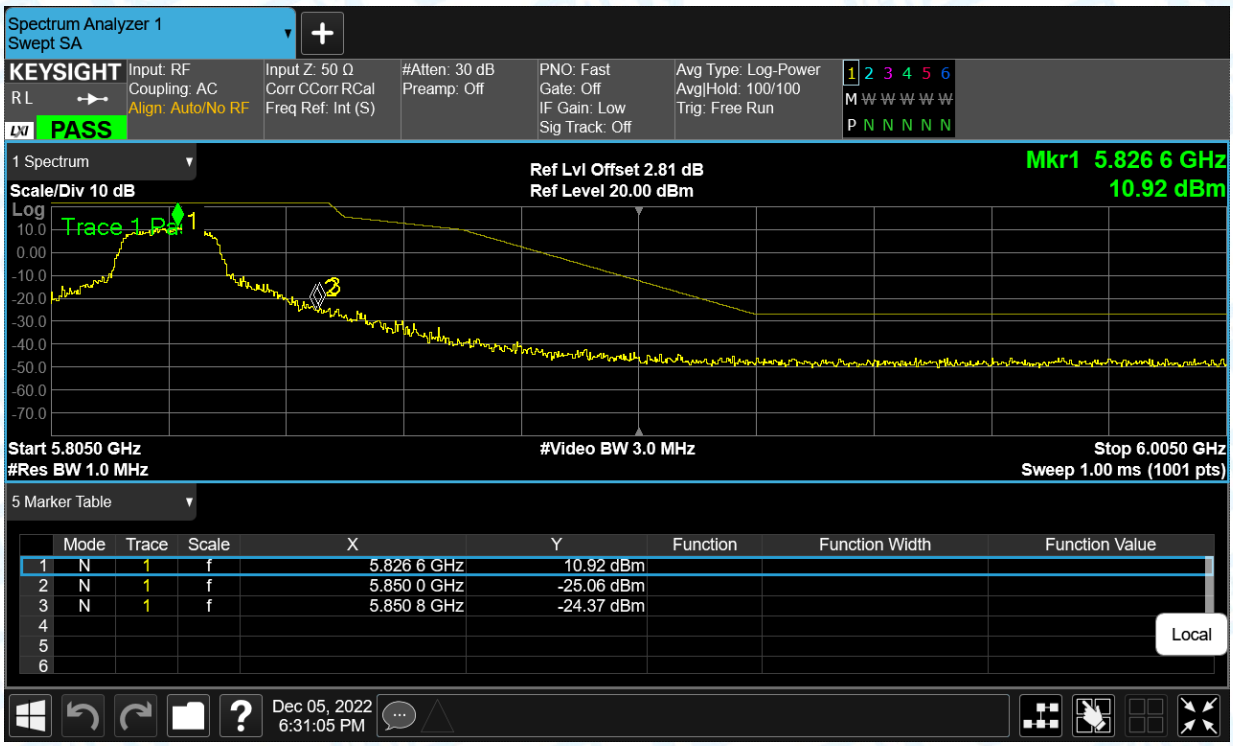
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-16.2	Pass
NVNT	a	5825	Ant1	-24.37	Pass
NVNT	ac(VHT20)	5745	Ant1	-14.79	Pass
NVNT	ac(VHT20)	5825	Ant1	-23.94	Pass
NVNT	ac(VHT40)	5755	Ant1	-15.17	Pass
NVNT	ac(VHT40)	5795	Ant1	-28.43	Pass
NVNT	ac(VHT80)	5775	Ant1	-12.37	Pass
NVNT	n(HT20)	5745	Ant1	-21.48	Pass
NVNT	n(HT20)	5825	Ant1	-24.05	Pass
NVNT	n(HT40)	5755	Ant1	-11.1	Pass
NVNT	n(HT40)	5795	Ant1	-24.3	Pass

Test Graphs

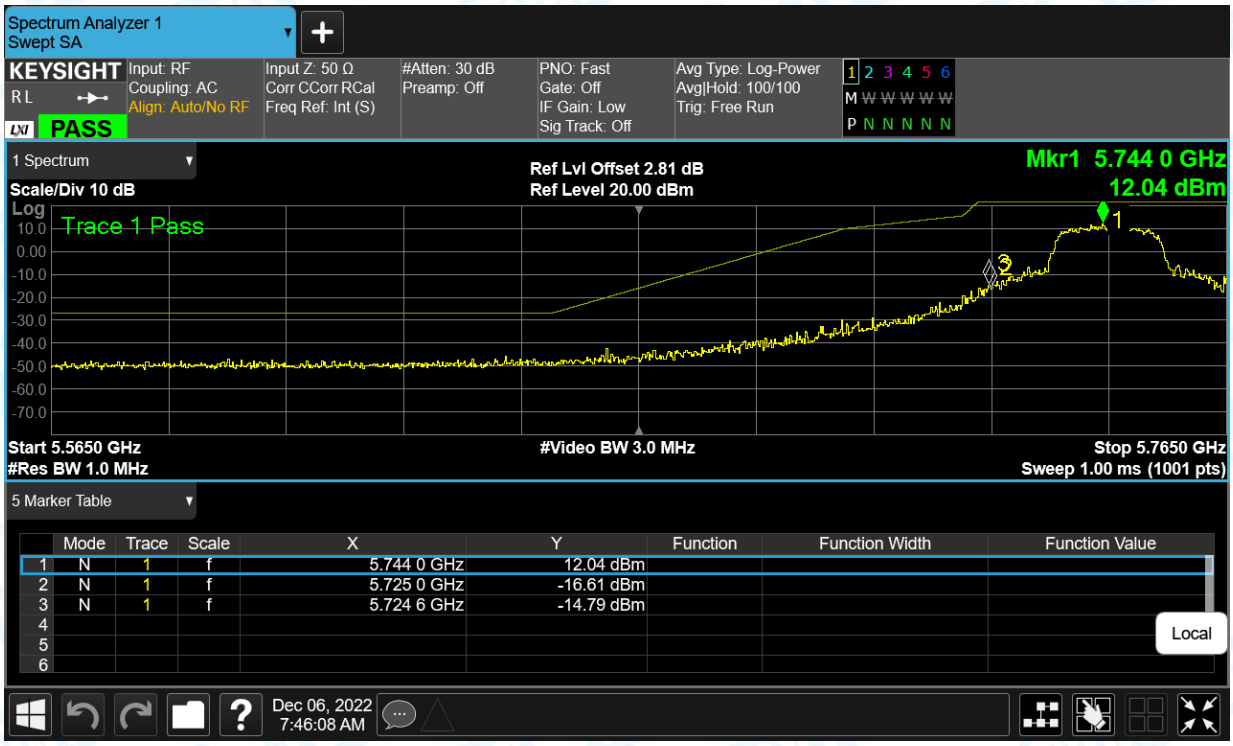
Band Edge NVNT a 5745MHz Low Ant1



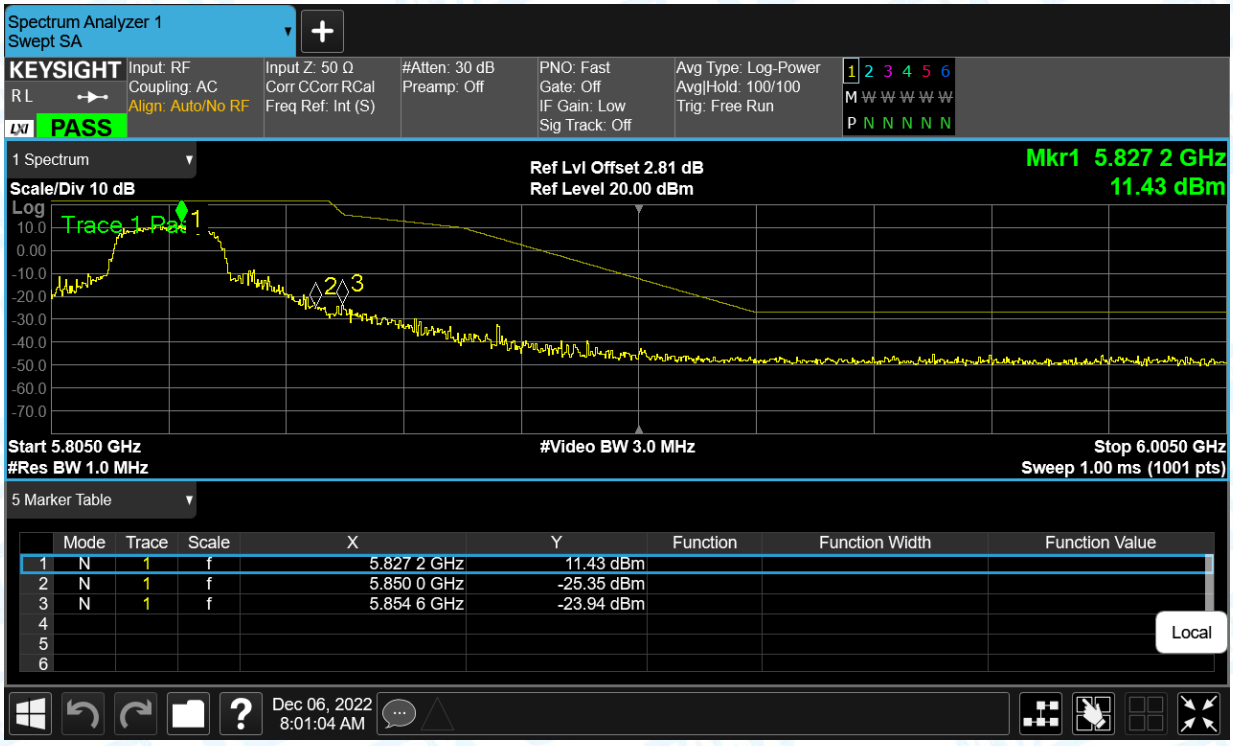
Band Edge NVNT a 5825MHz High Ant1



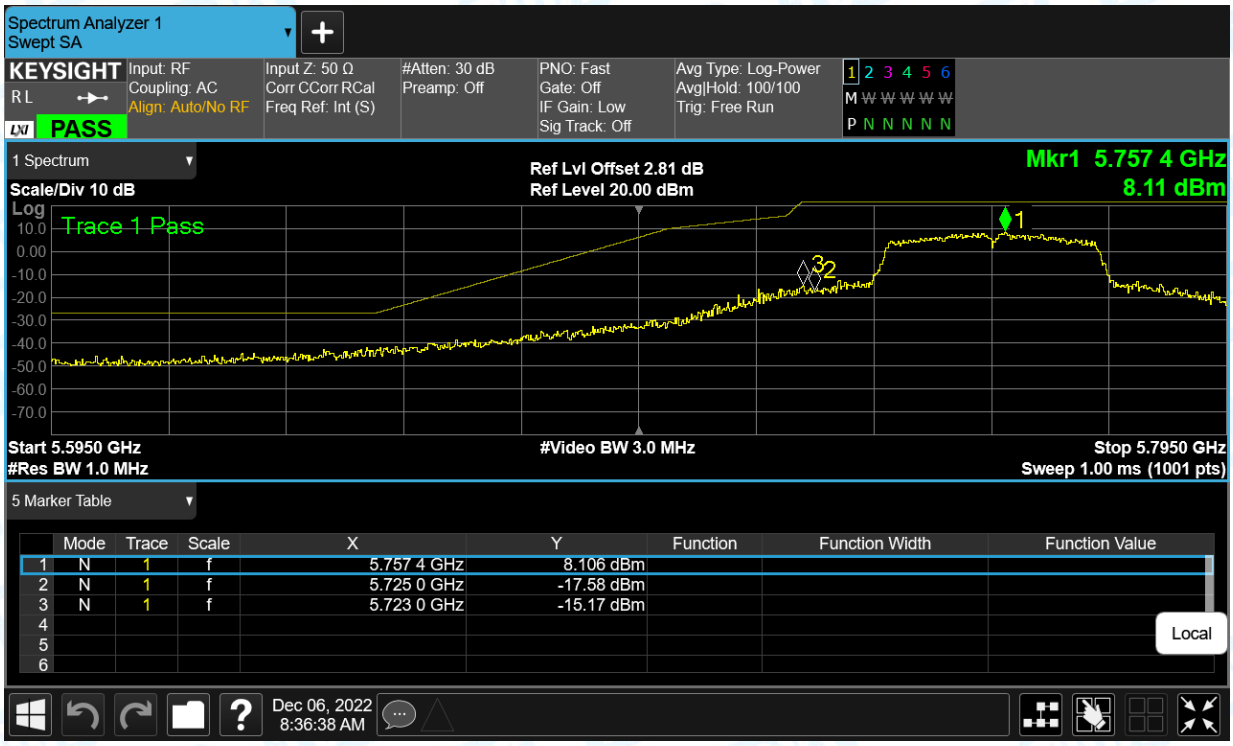
Band Edge NVNT ac(VHT20) 5745MHz Low Ant1



Band Edge NVNT ac(VHT20) 5825MHz High Ant1

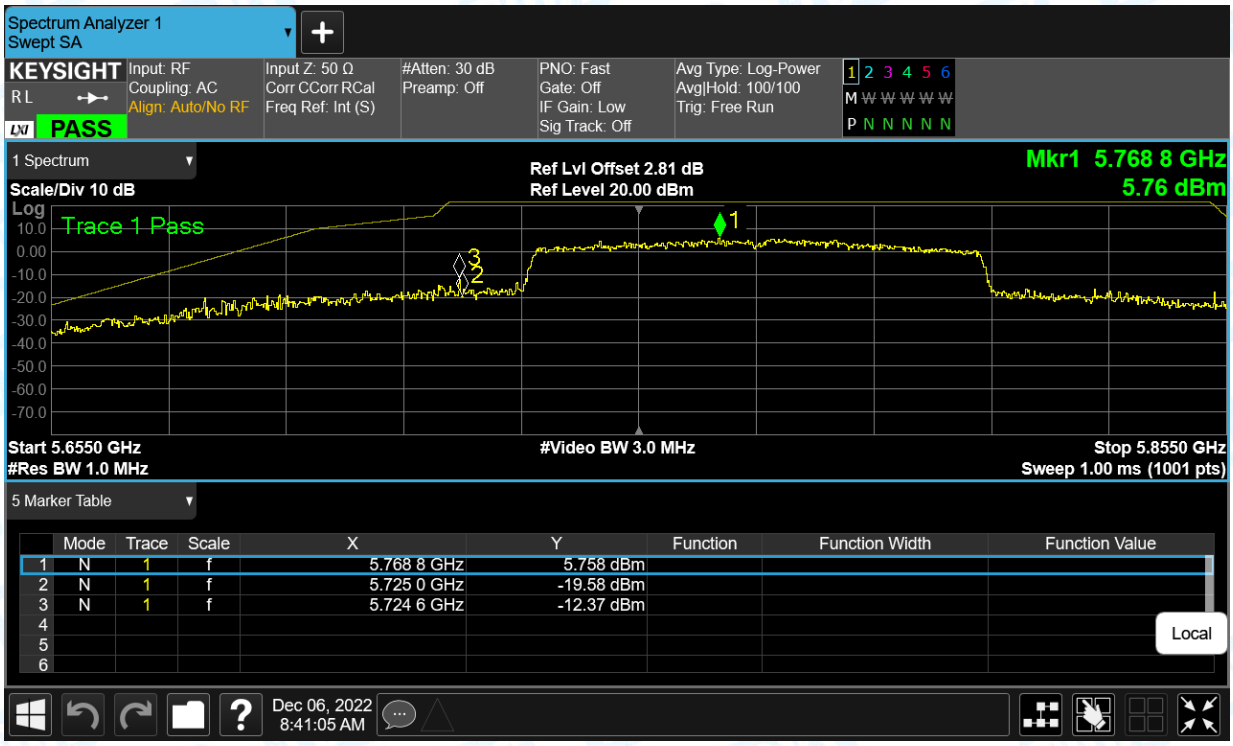


Band Edge NVNT ac(VHT40) 5755MHz Low Ant1

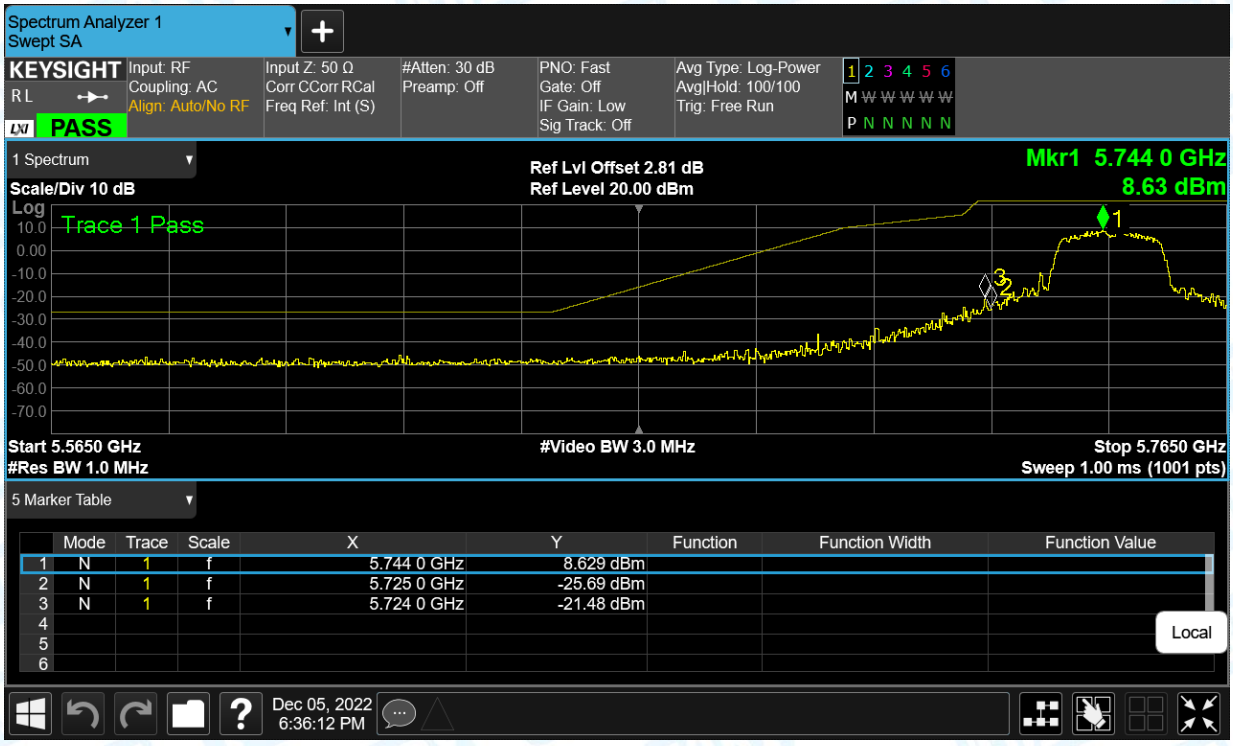


Band Edge NVNT ac(VHT40) 5795MHz High Ant1

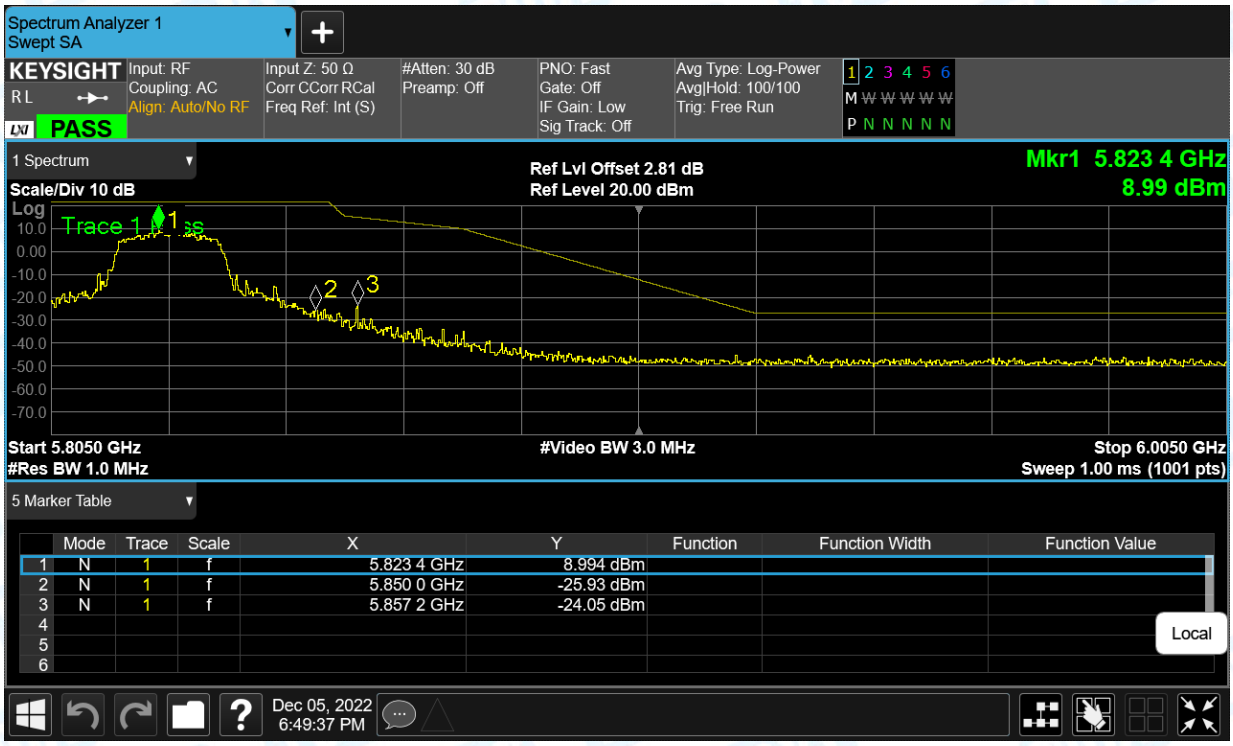
Band Edge NVNT ac(VHT80) 5775MHz Low Ant1



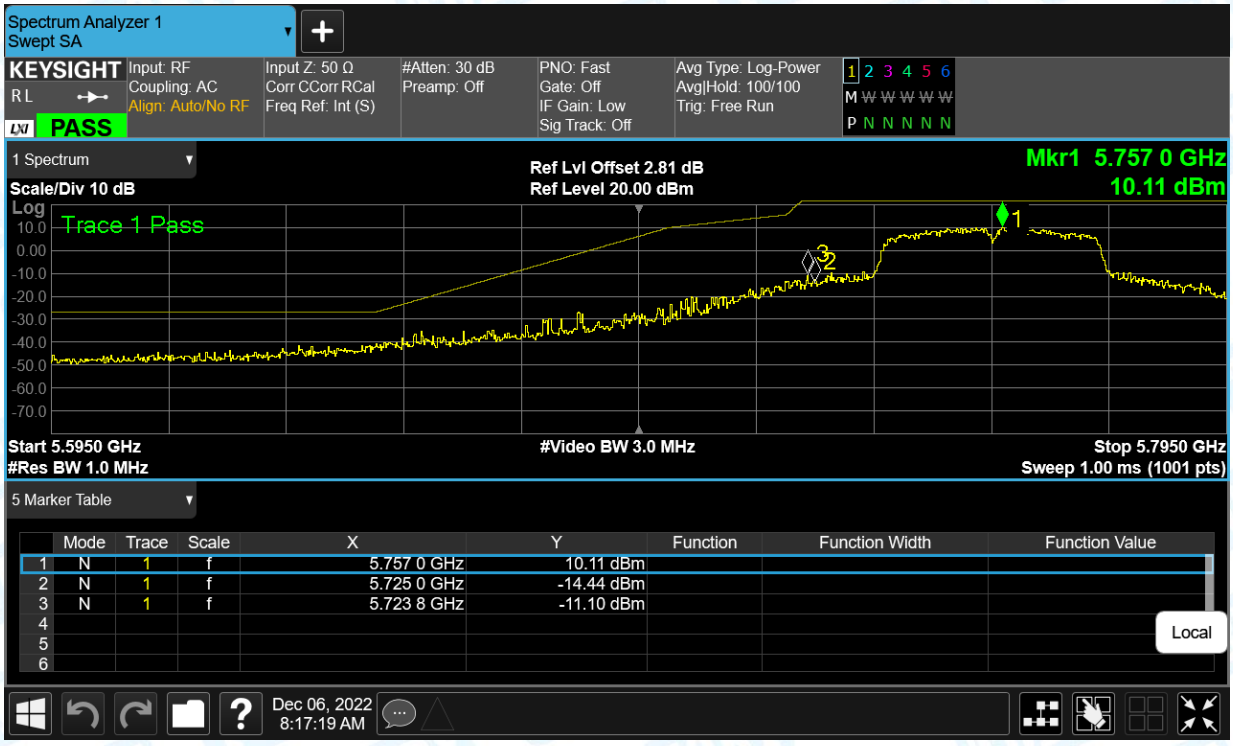
Band Edge NVNT n(HT20) 5745MHz Low Ant1



Band Edge NVNT n(HT20) 5825MHz High Ant1



Band Edge NVNT n(HT40) 5755MHz Low Ant1

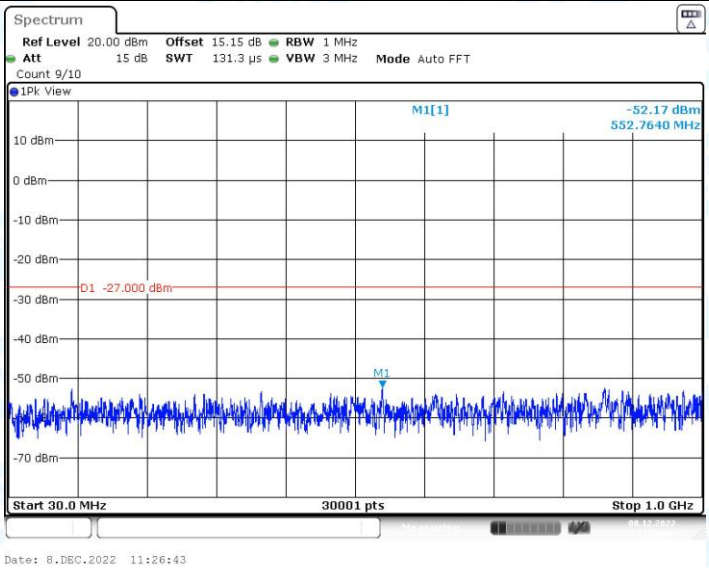


Band Edge NVNT n(HT40) 5795MHz High Ant1

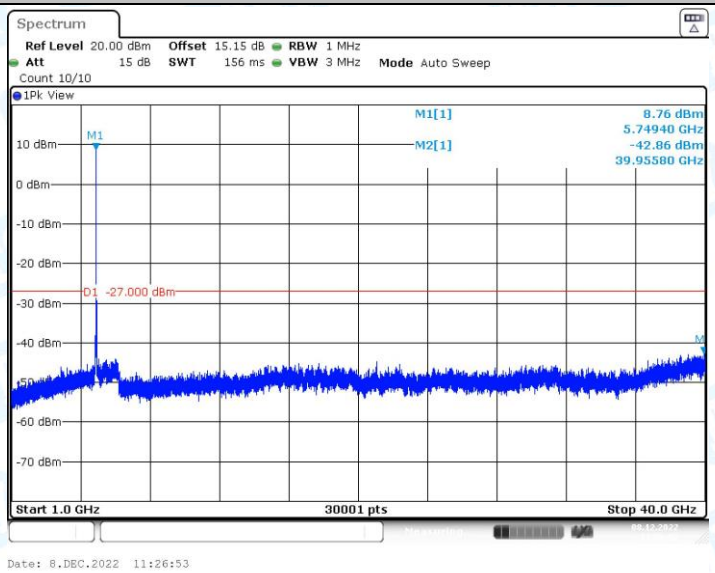
7. Conducted RF Spurious Emission

Test Mode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~1000	552.76	-52.17	≤-27	PASS
			1000~40000	39955.8	-42.86	≤-27	PASS
		5785	30~1000	254.01	-52.54	≤-27	PASS
			1000~40000	39626.9	-42.78	≤-27	PASS
		5825	30~1000	715.14	-52.27	≤-27	PASS
			1000~40000	38913.2	-42.79	≤-27	PASS
11N20SISO	Ant1	5745	30~1000	864.58	-50.82	≤-27	PASS
			1000~40000	39532	-41.87	≤-27	PASS
		5785	30~1000	770.94	-51.35	≤-27	PASS
			1000~40000	39985.7	-42.36	≤-27	PASS
		5825	30~1000	706.41	-52.28	≤-27	PASS
			1000~40000	39135.5	-42.84	≤-27	PASS
11N40SISO	Ant1	5755	30~1000	861.38	-51.62	≤-27	PASS
			1000~40000	38980.8	-42.04	≤-27	PASS
		5795	30~1000	145.15	-52.82	≤-27	PASS
			1000~40000	39990.9	-42.17	≤-27	PASS
11AC20SISO	Ant1	5745	30~1000	794.58	-51.87	≤-27	PASS
			1000~40000	39467	-41.65	≤-27	PASS
		5785	30~1000	862.73	-52.51	≤-27	PASS
			1000~40000	38650.6	-43.46	≤-27	PASS
		5825	30~1000	889.41	-52.21	≤-27	PASS
			1000~40000	39853.1	-41.96	≤-27	PASS
11AC40SISO	Ant1	5755	30~1000	959.54	-51.74	≤-27	PASS
			1000~40000	39400.7	-42.26	≤-27	PASS
		5795	30~1000	707.38	-51.72	≤-27	PASS
			1000~40000	39048.4	-42.03	≤-27	PASS
11AC80SISO	Ant1	5775	30~1000	892.64	-52.21	≤-27	PASS
			1000~40000	39706.2	-41.62	≤-27	PASS

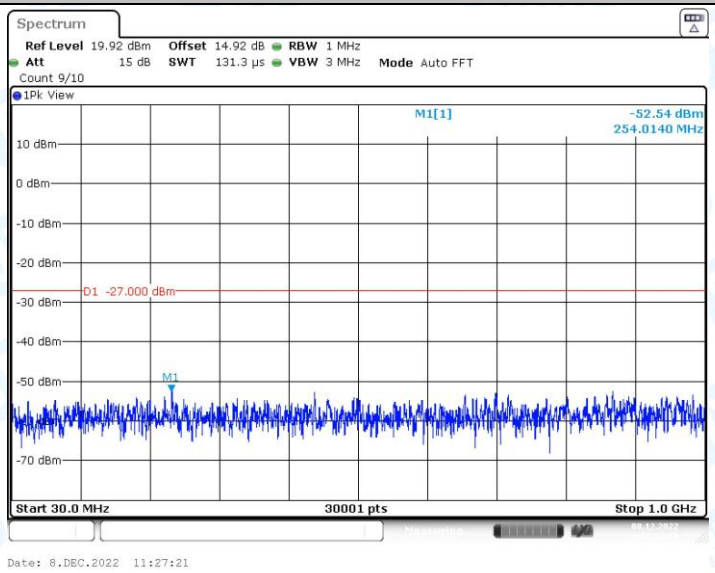
11A_Ant1_5745_30~1000



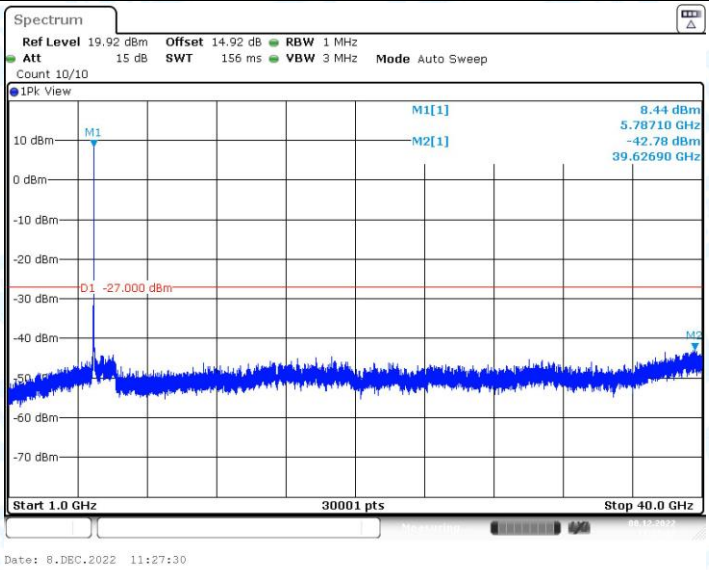
11A_Ant1_5745_1000~40000



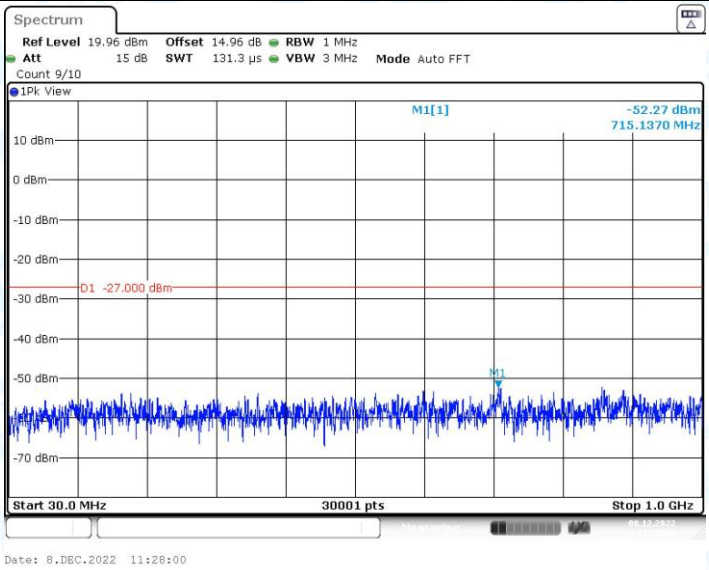
11A_Ant1_5785_30~1000



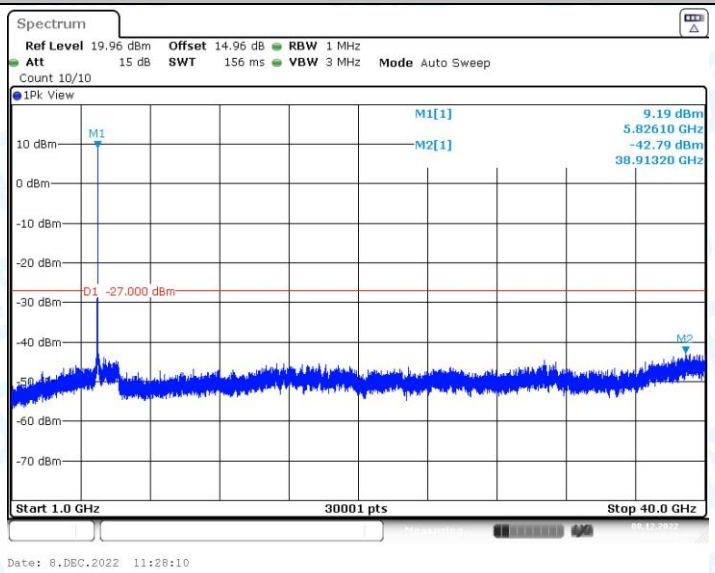
11A_Ant1_5785_1000~40000



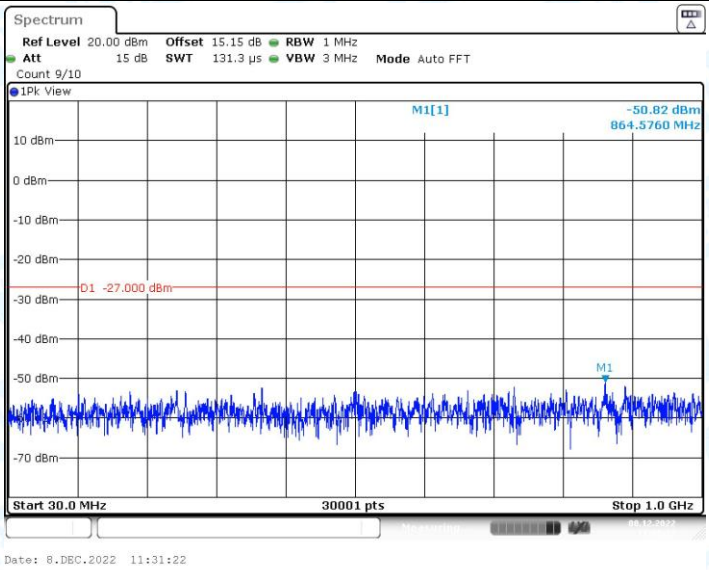
11A_Ant1_5825_30~1000



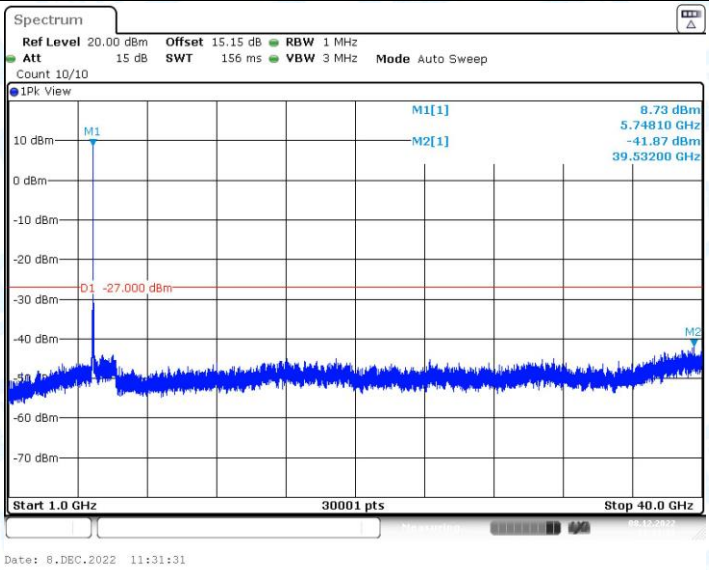
11A_Ant1_5825_1000~40000



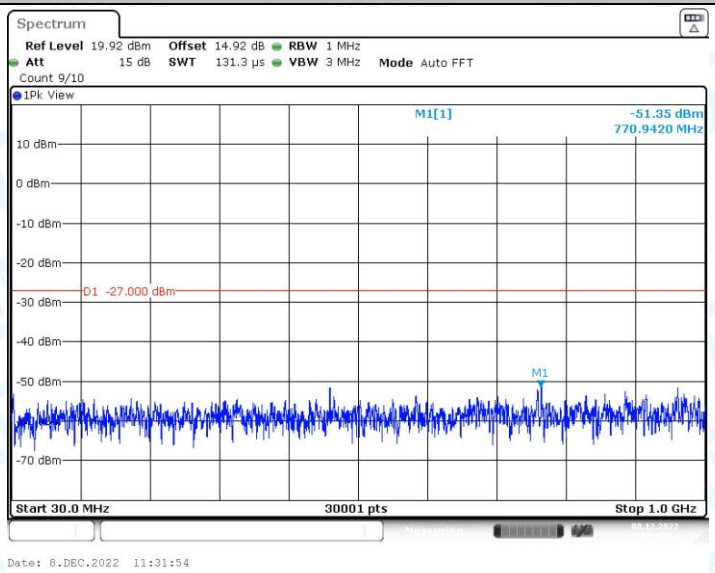
11N20SISO_Ant1_5745_30~1000



11N20SISO_Ant1_5745_1000~40000



11N20SISO_Ant1_5785_30~1000



11N20SISO_Ant1_5785_1000~40000