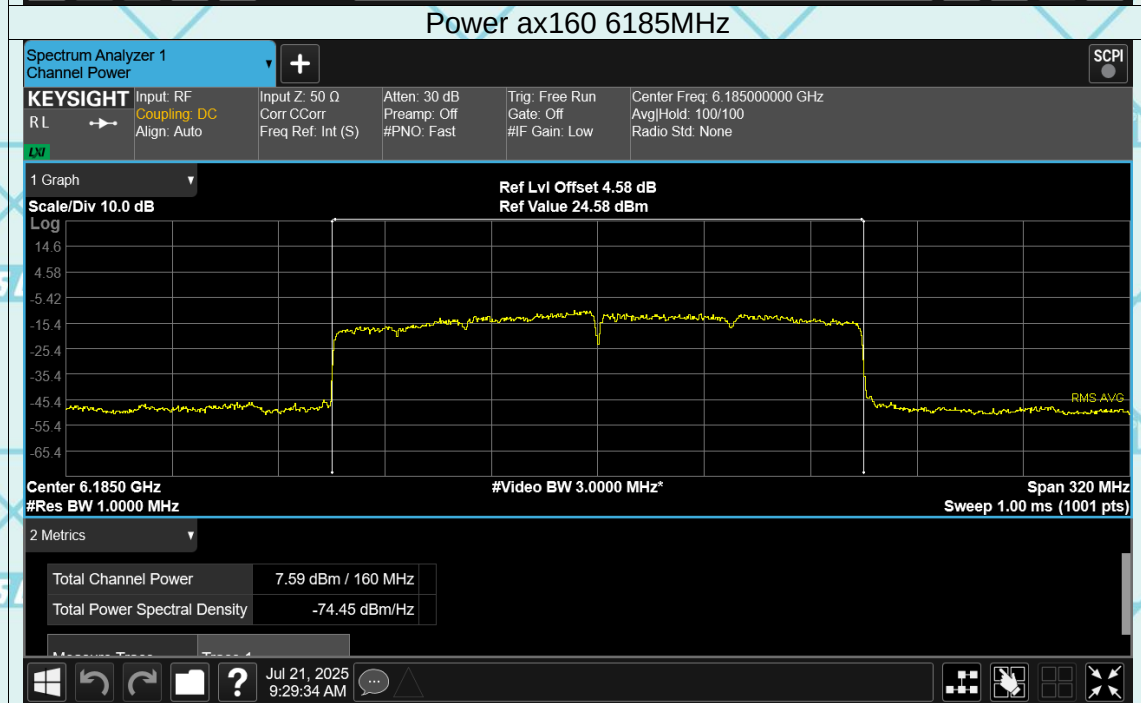
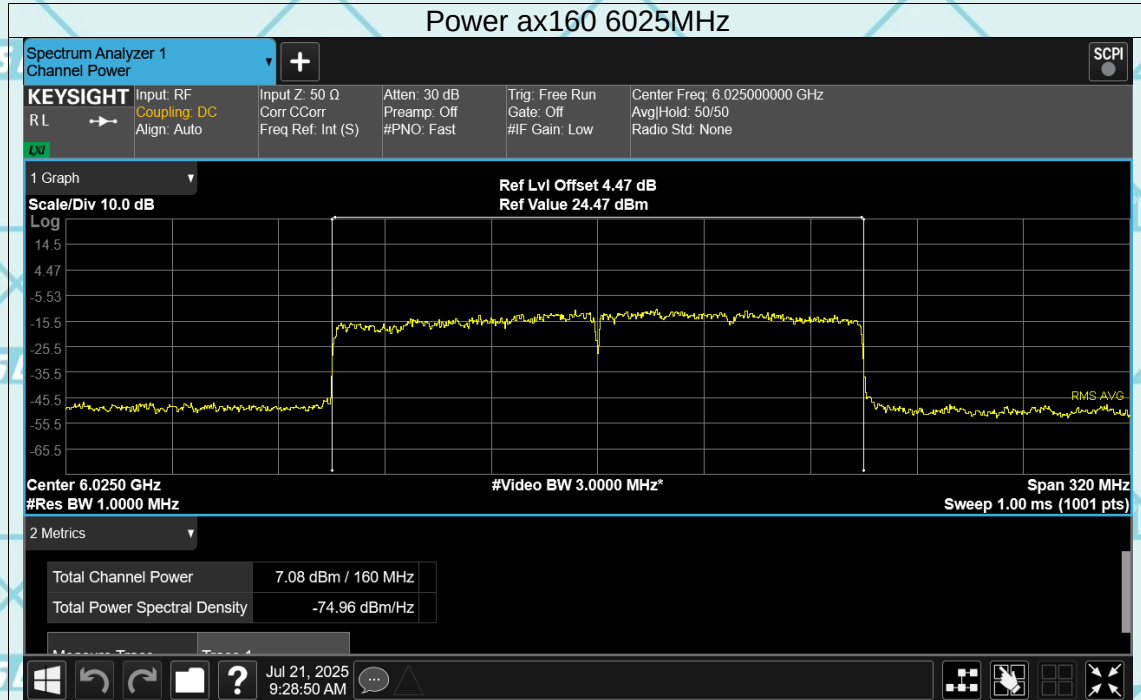
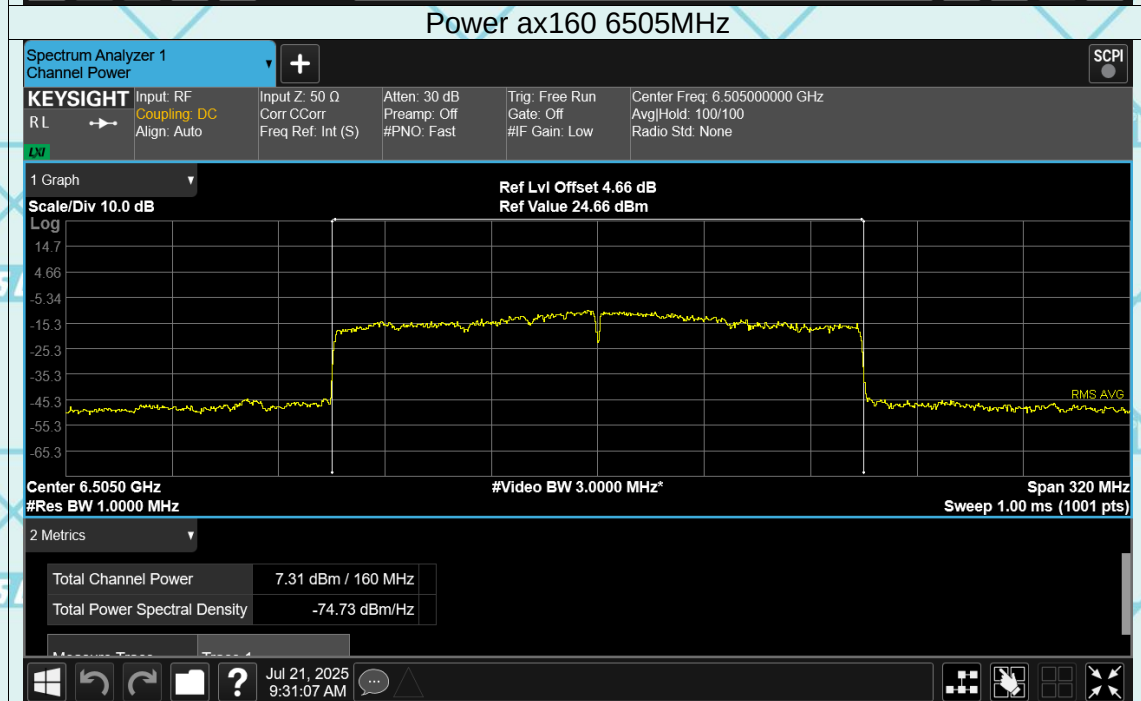
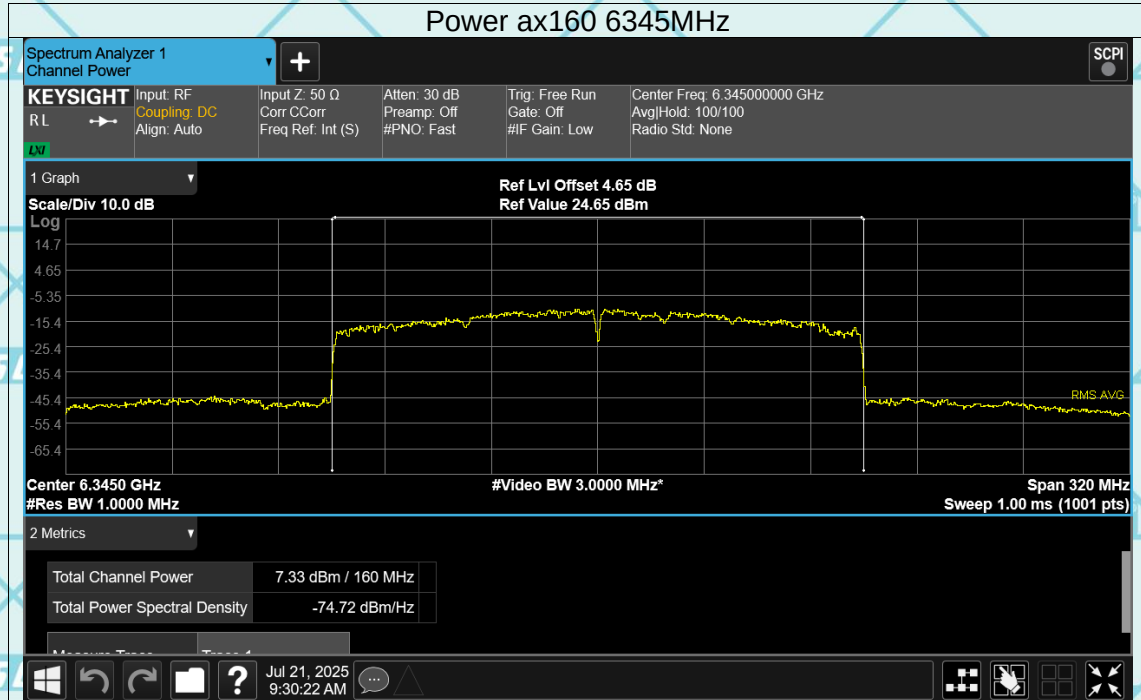
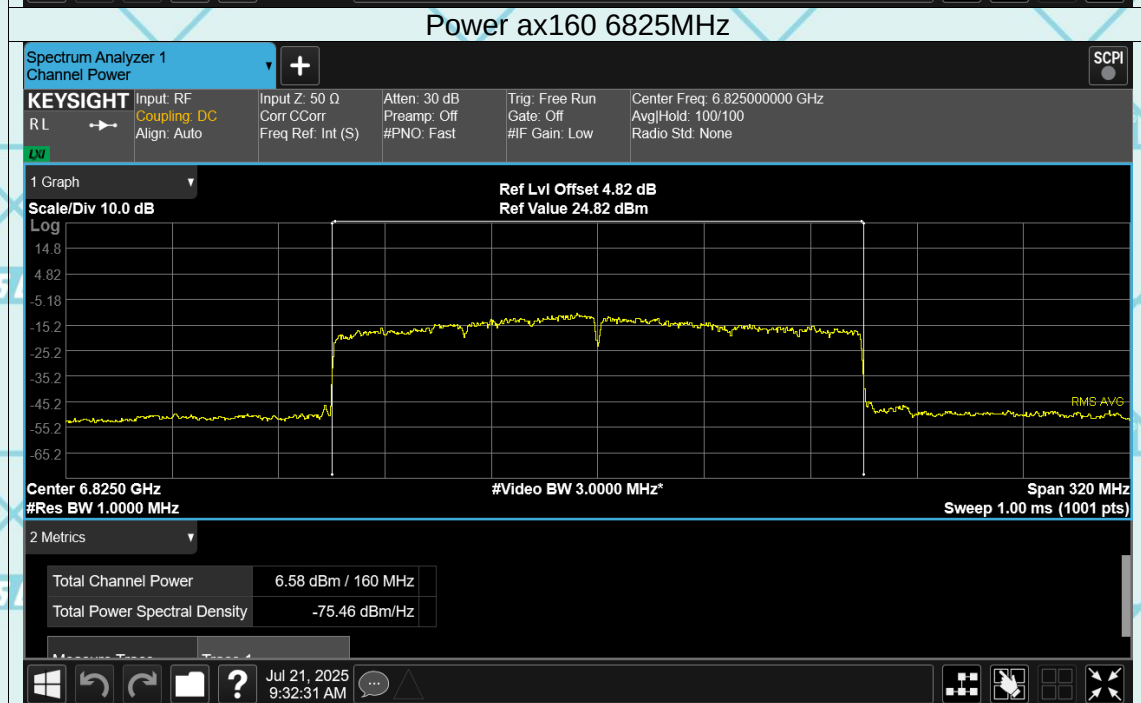
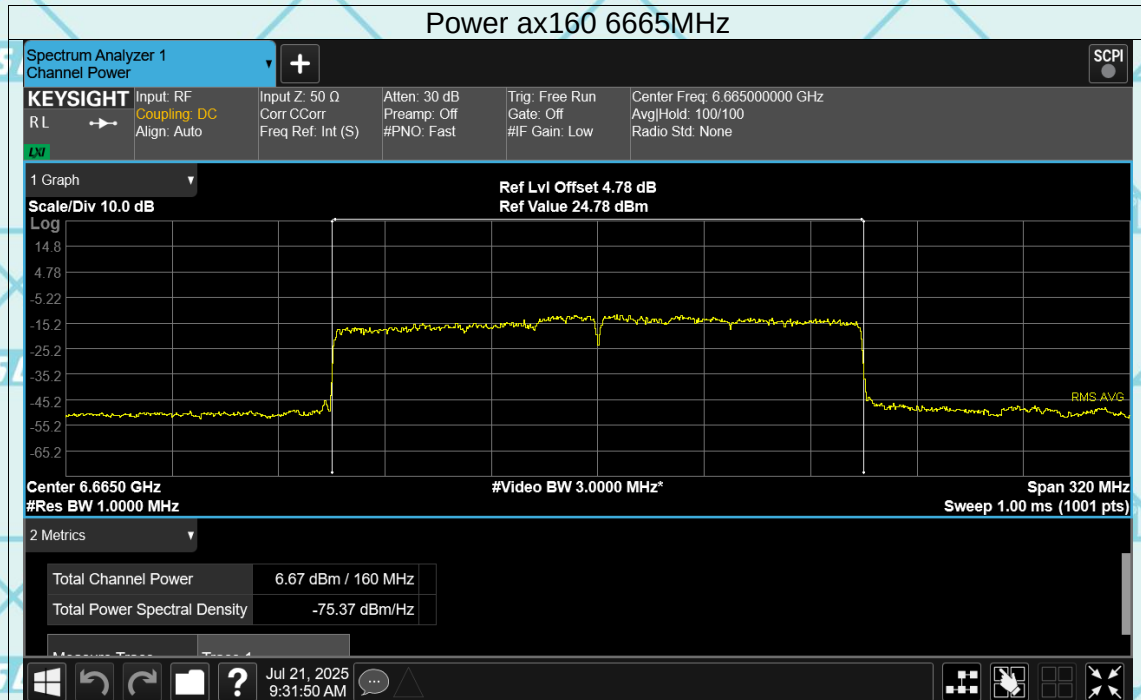
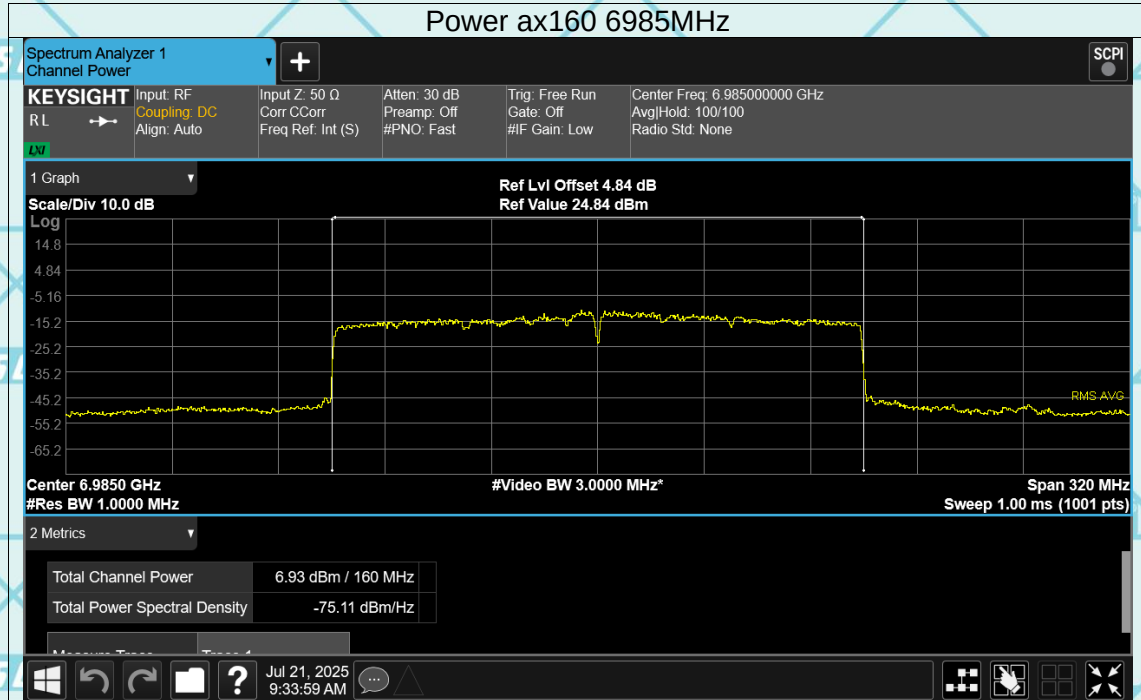




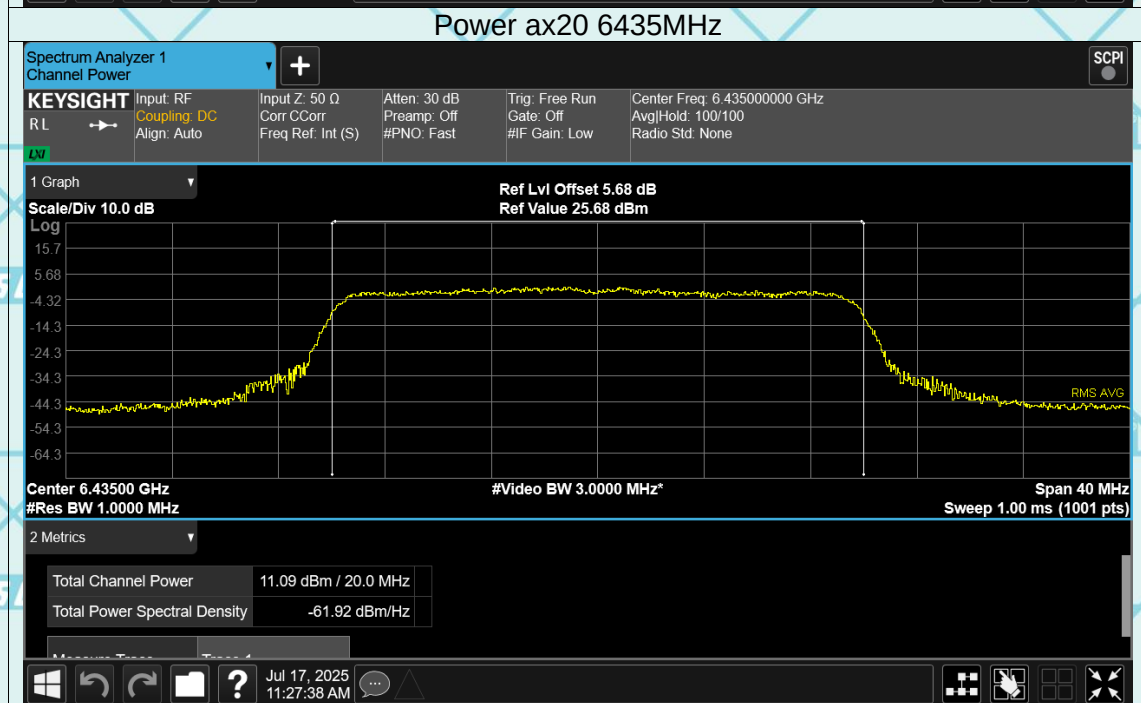
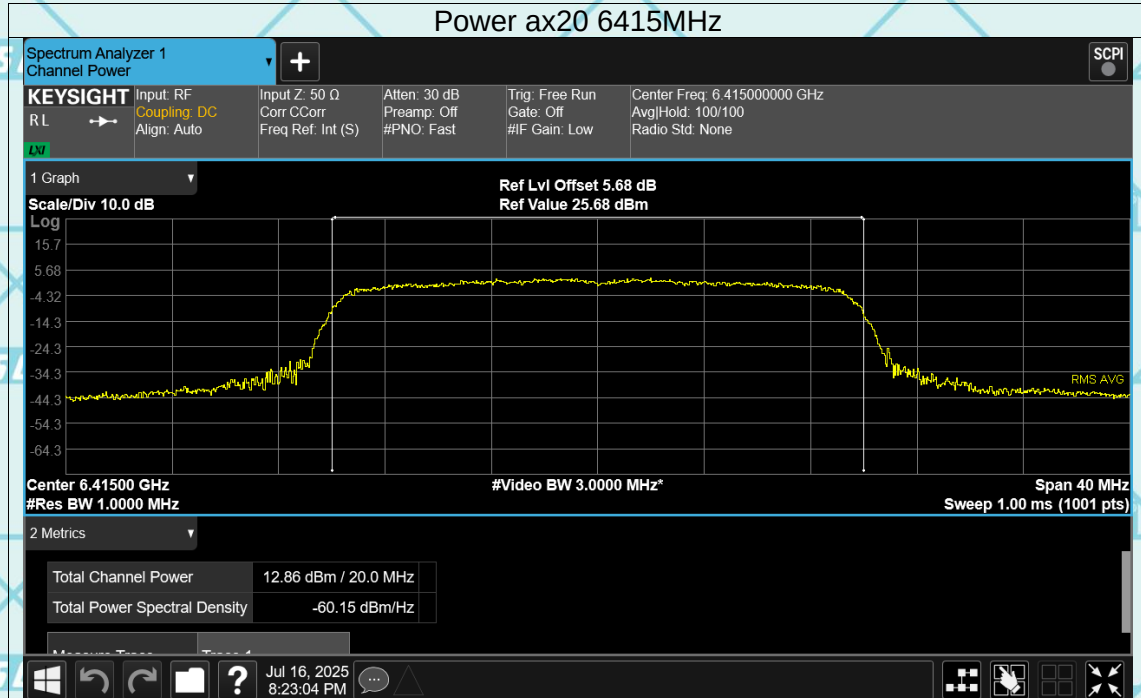


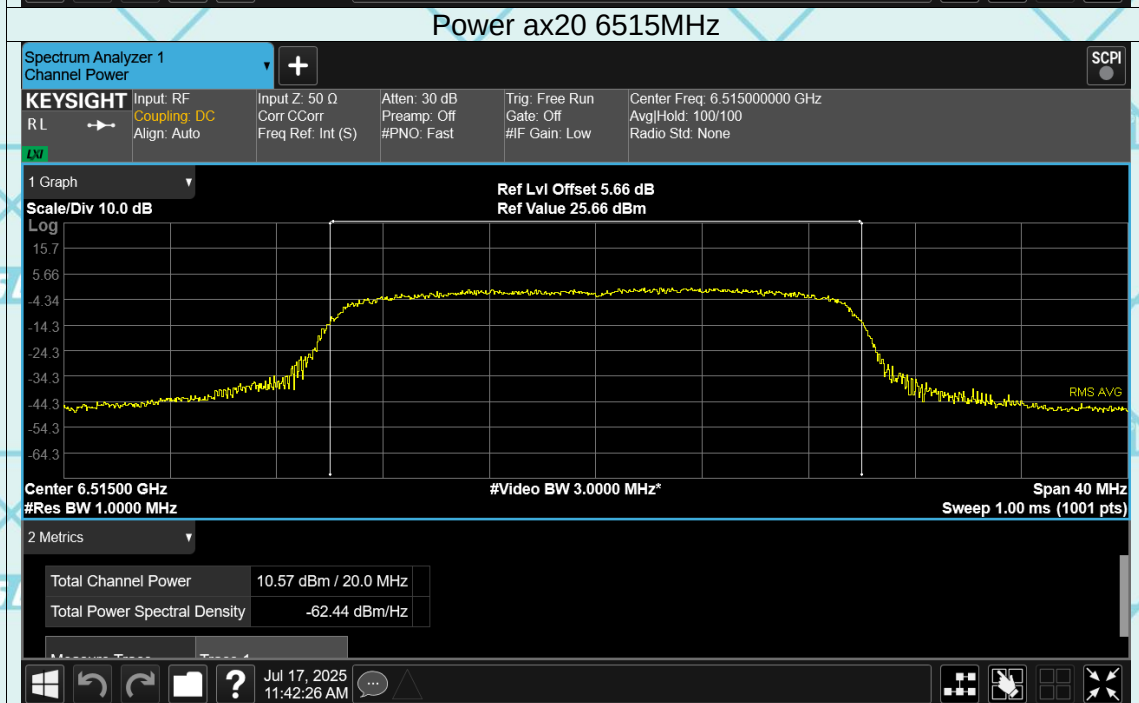
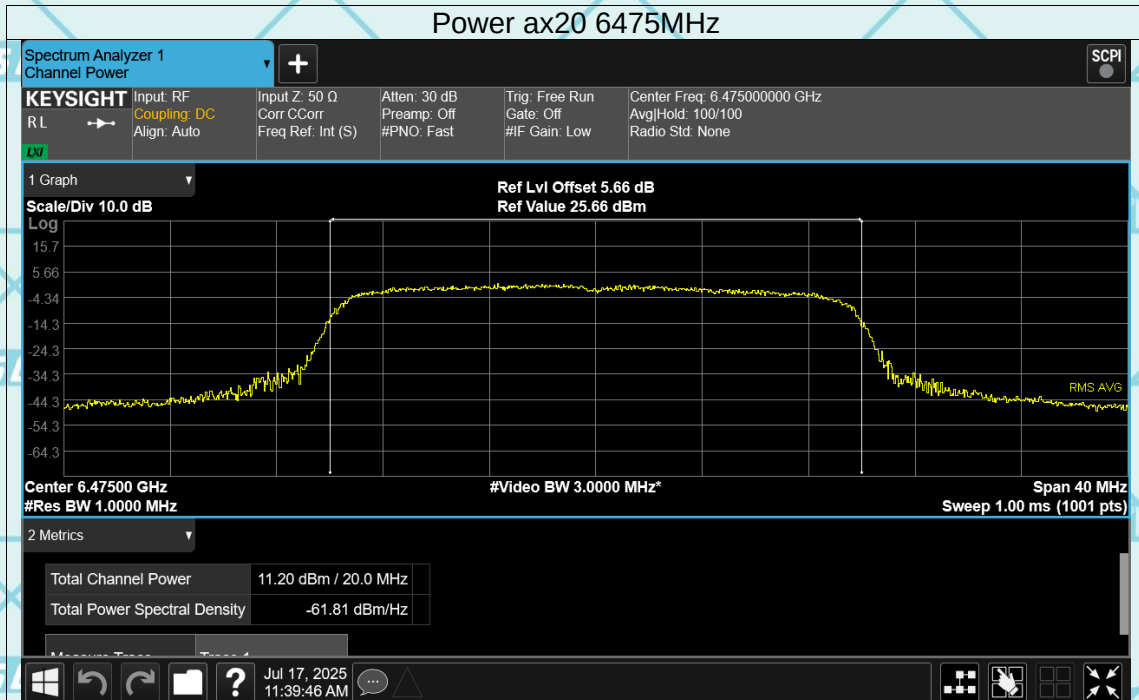


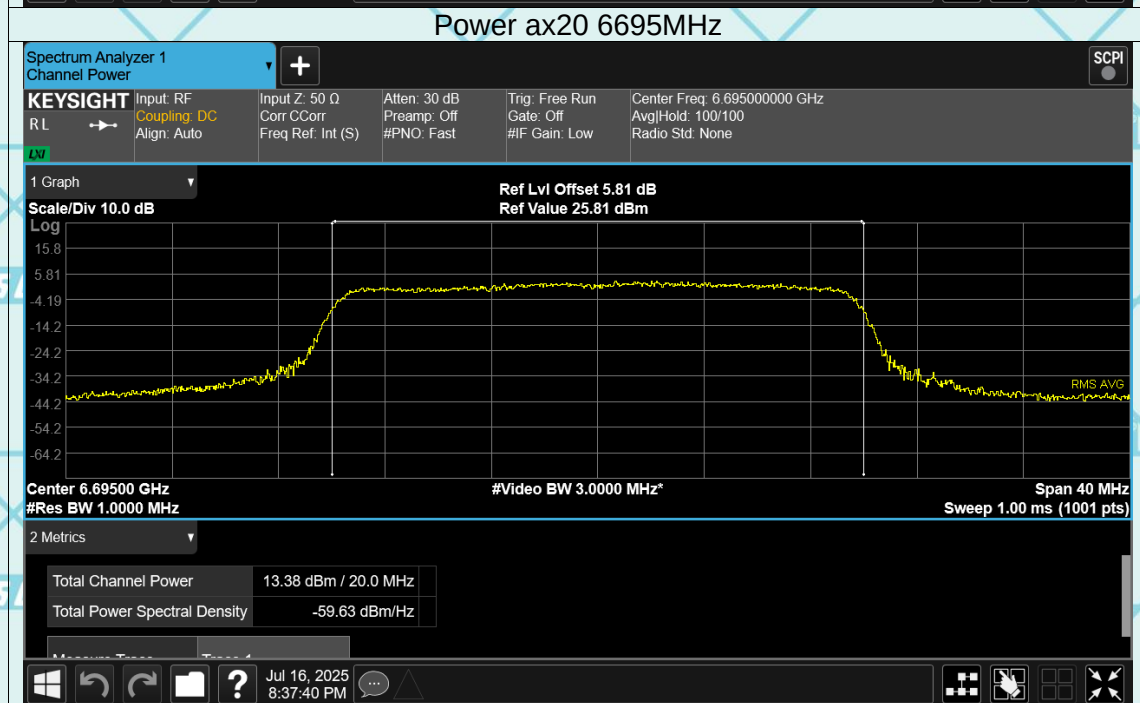
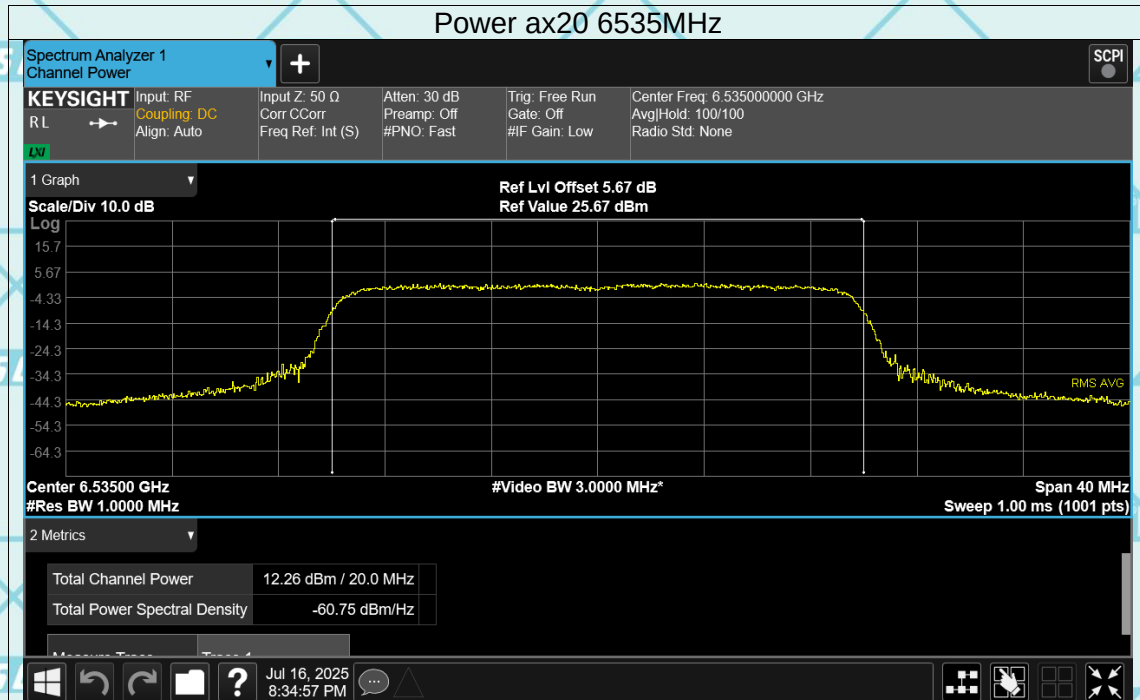


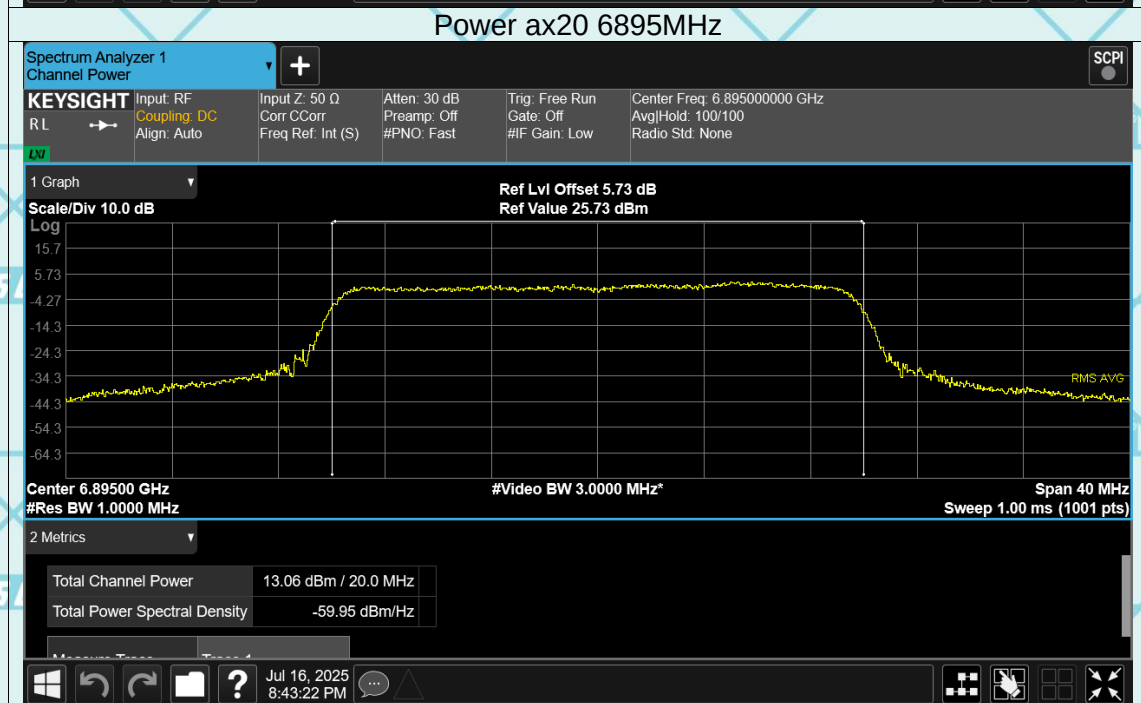
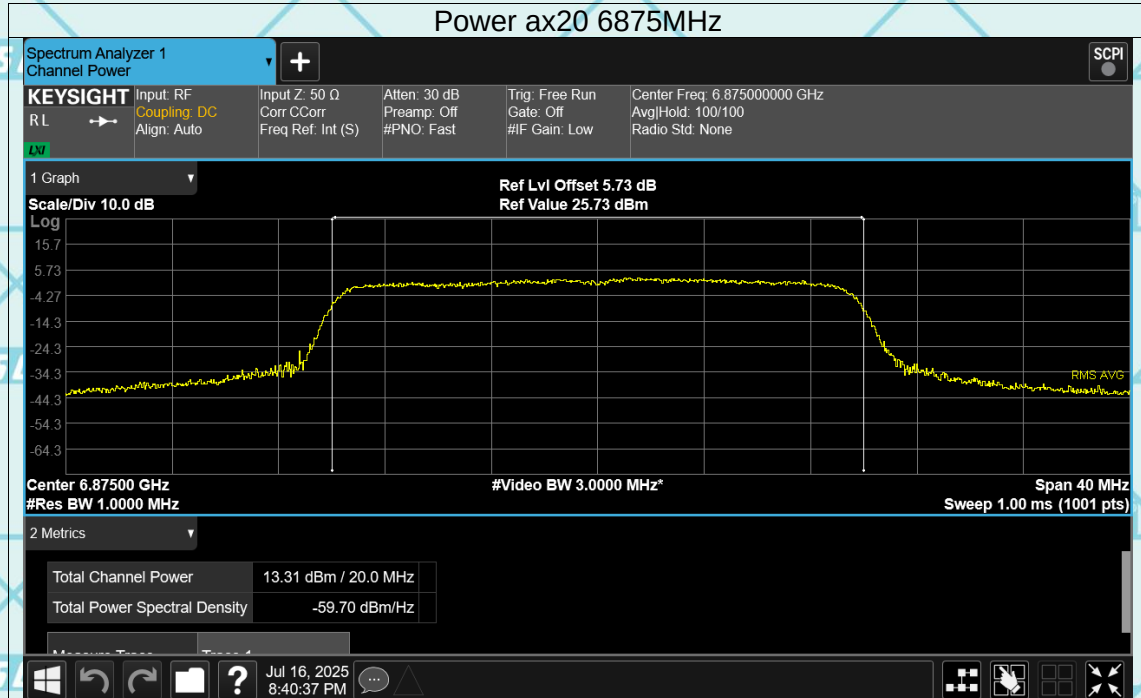
ANT2

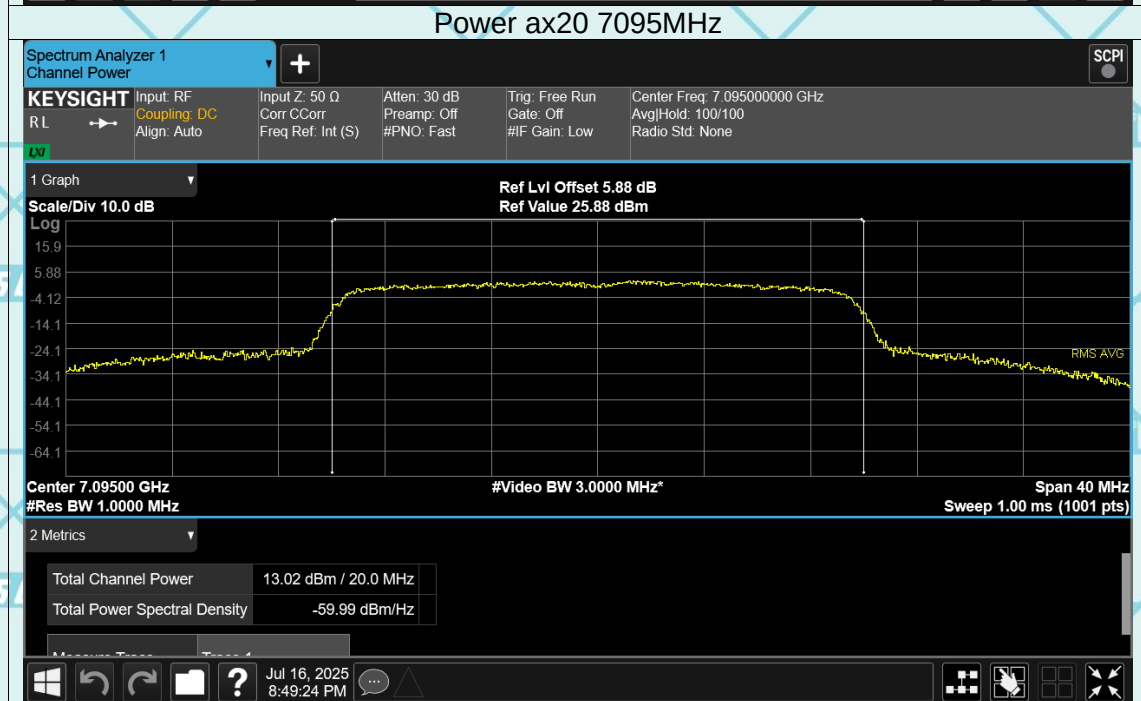
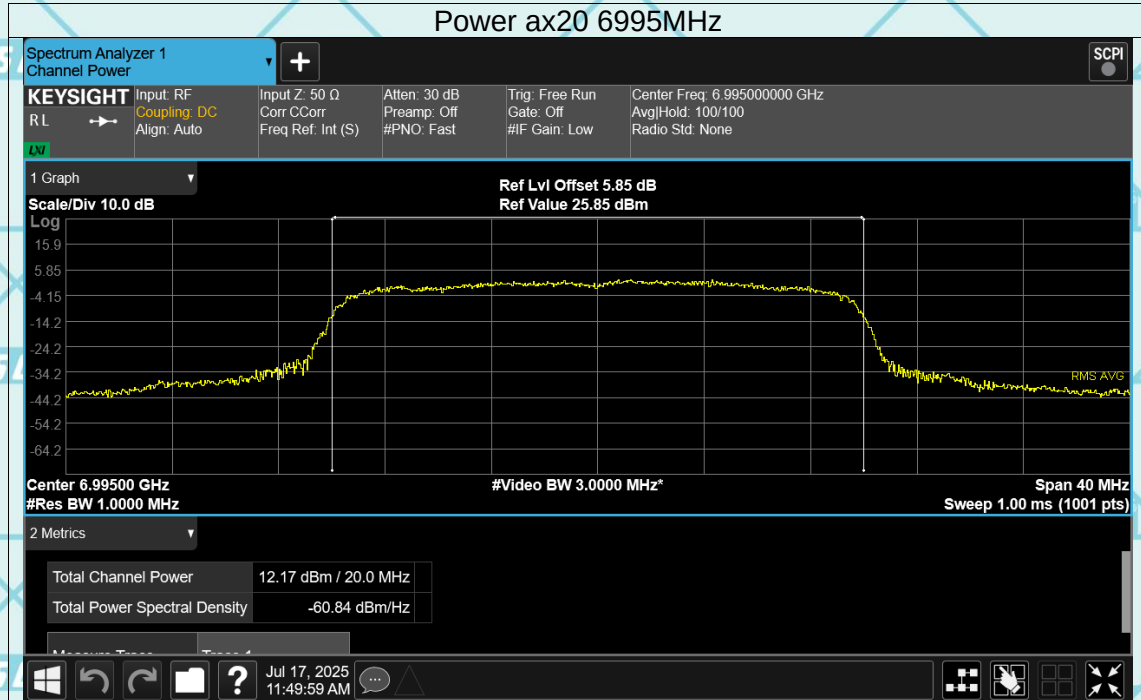


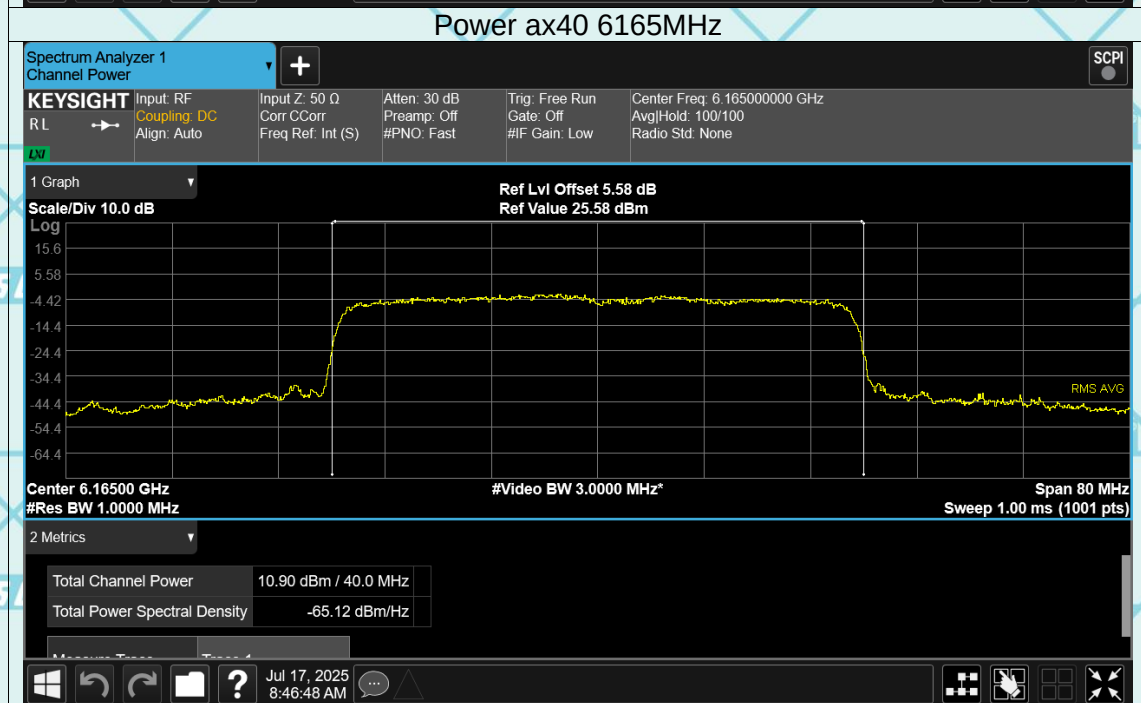
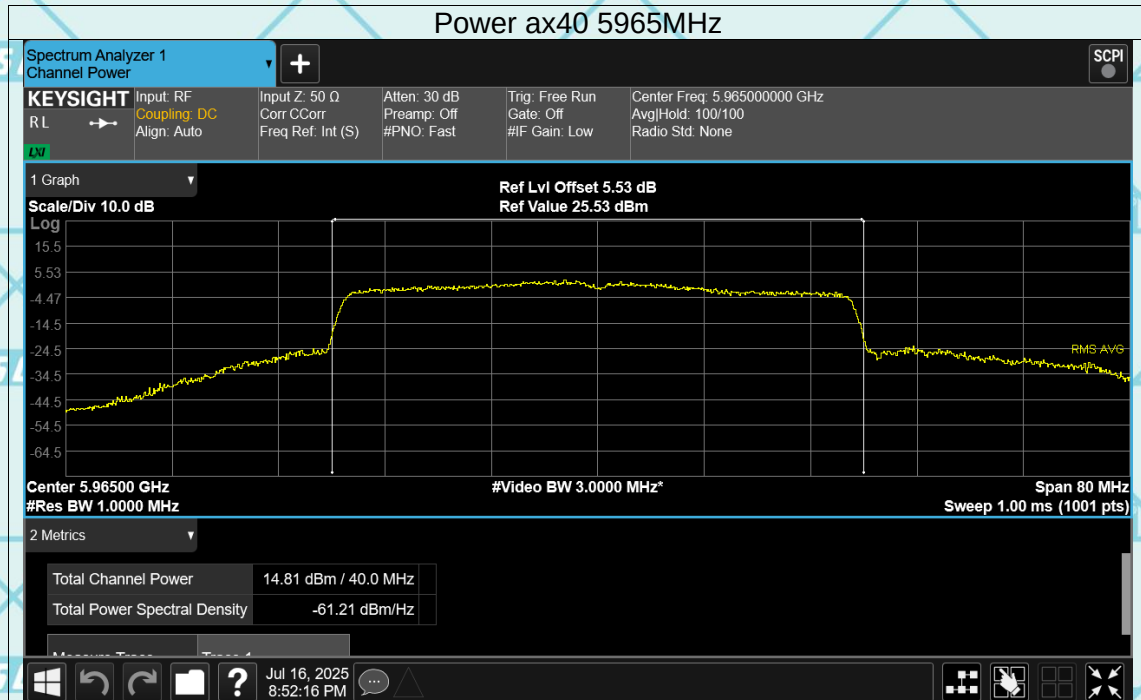


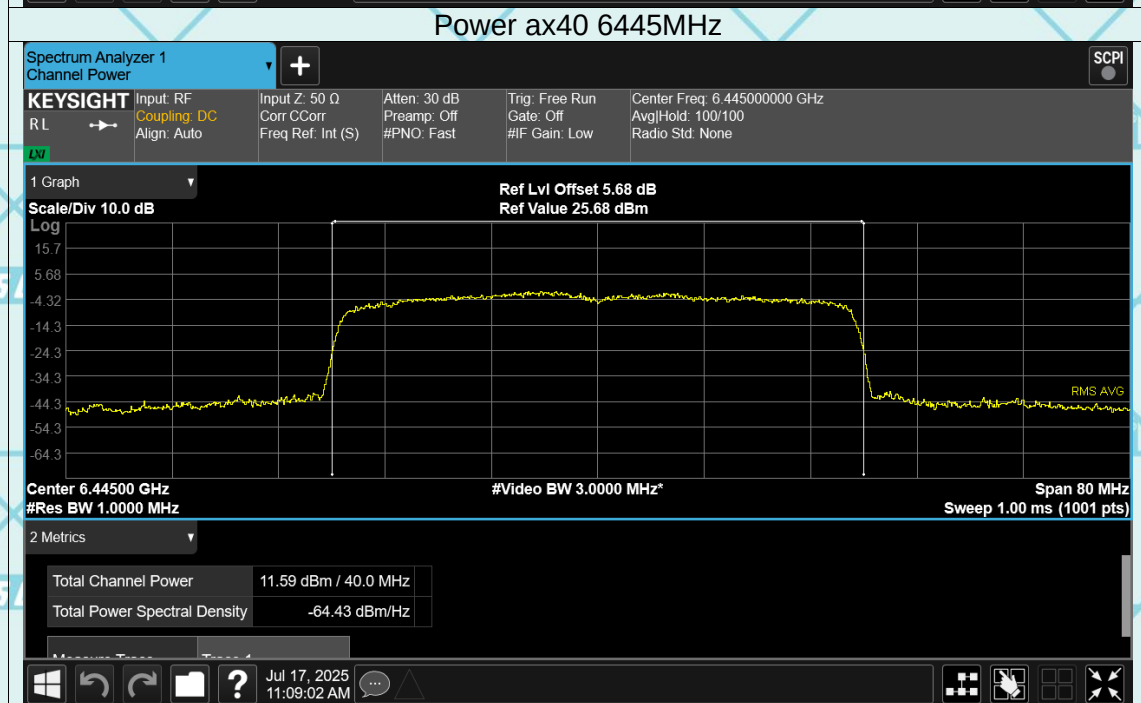
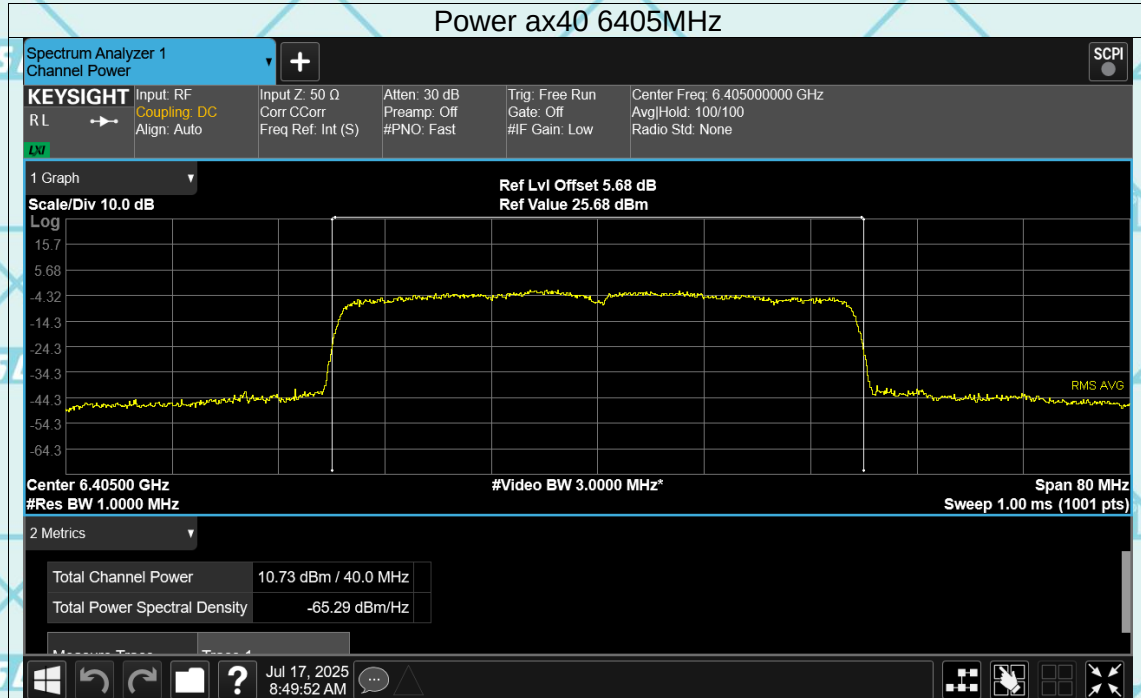


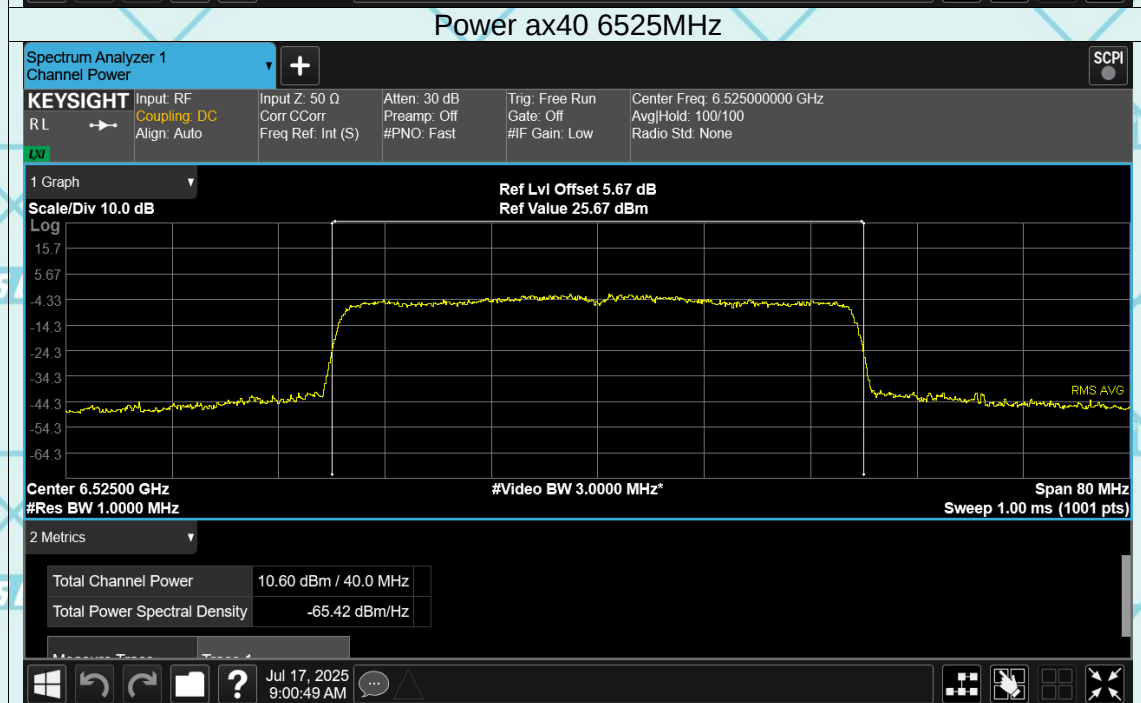
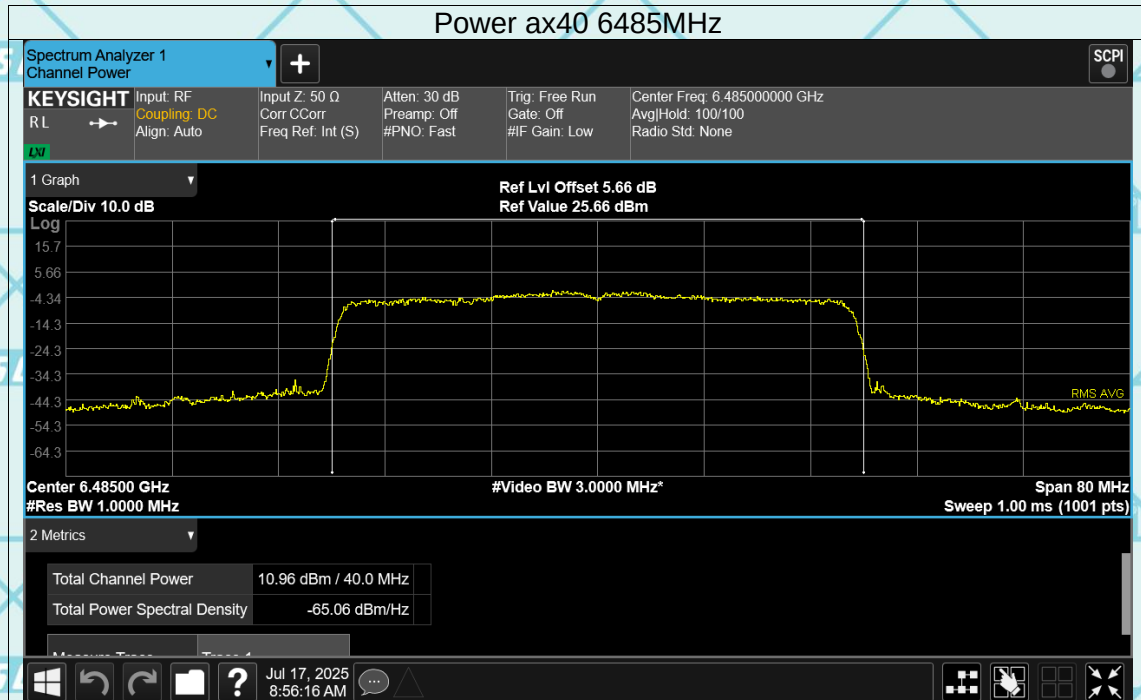


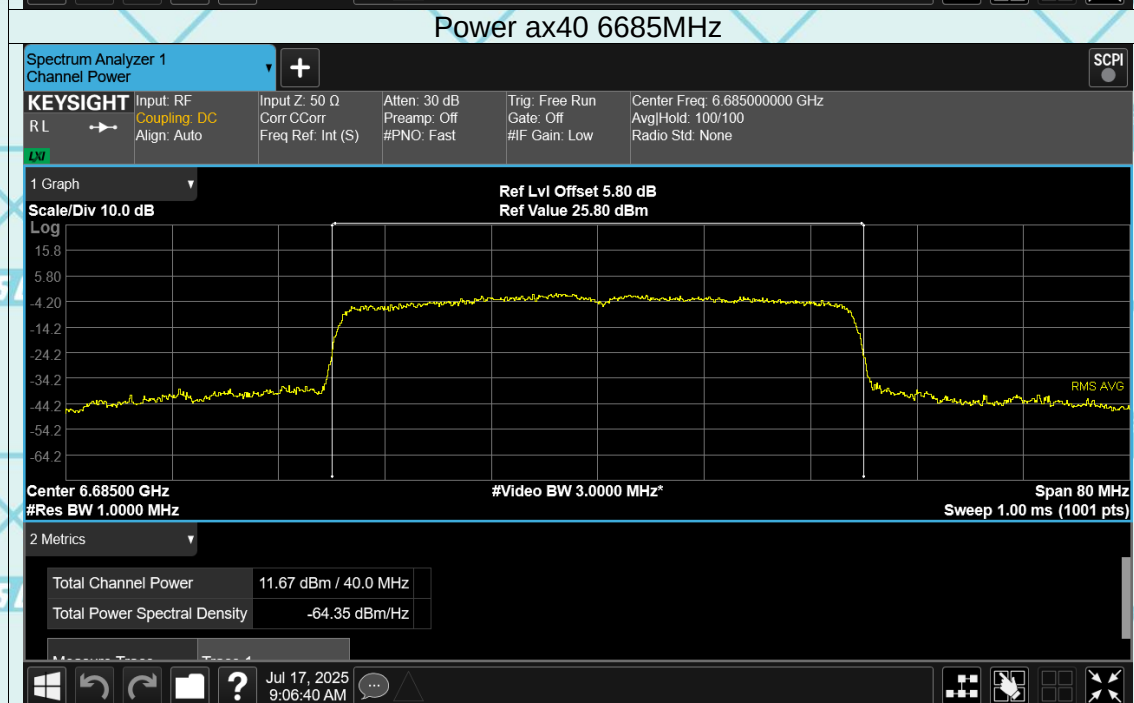
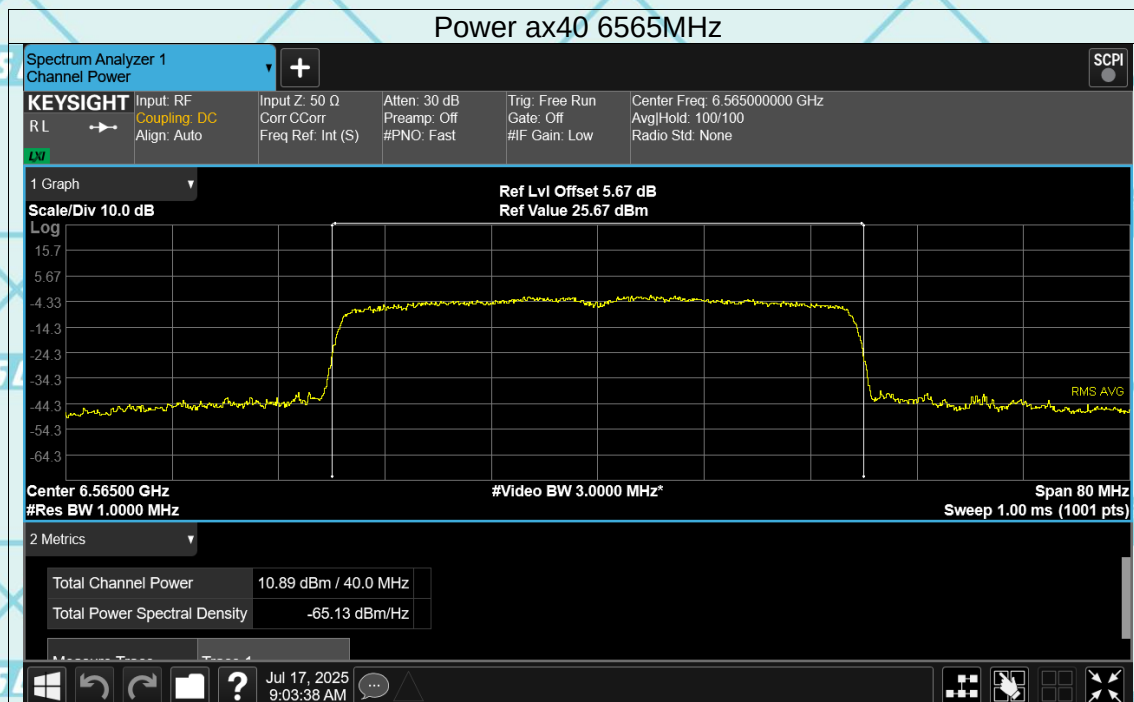


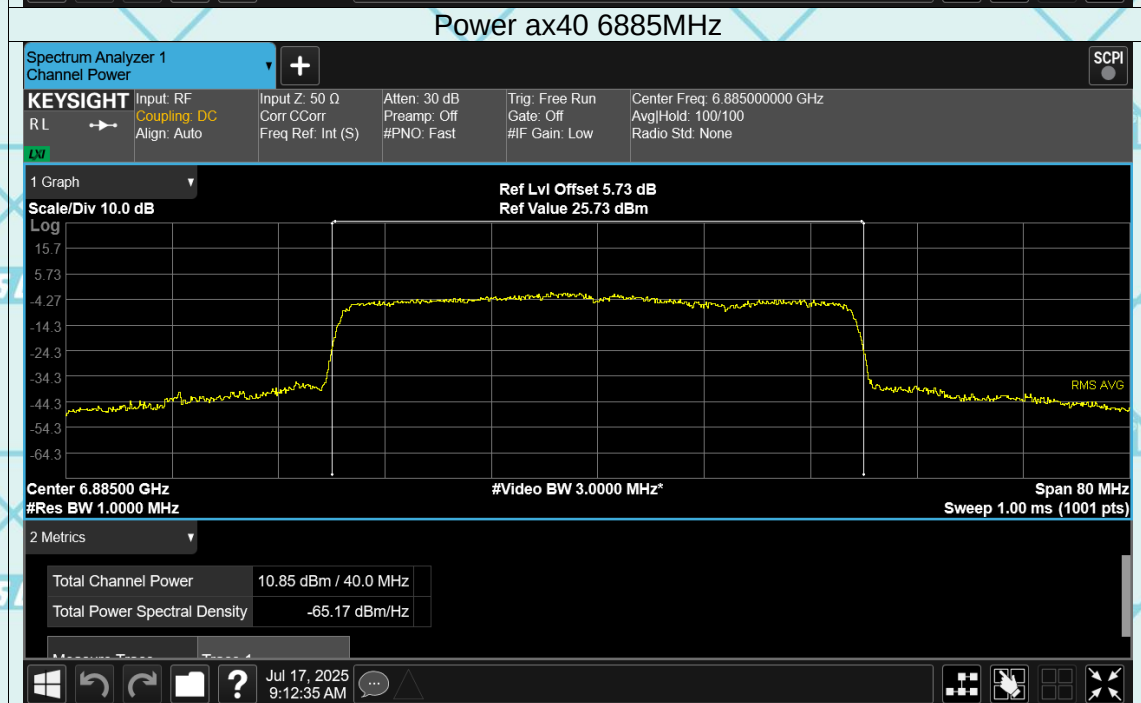
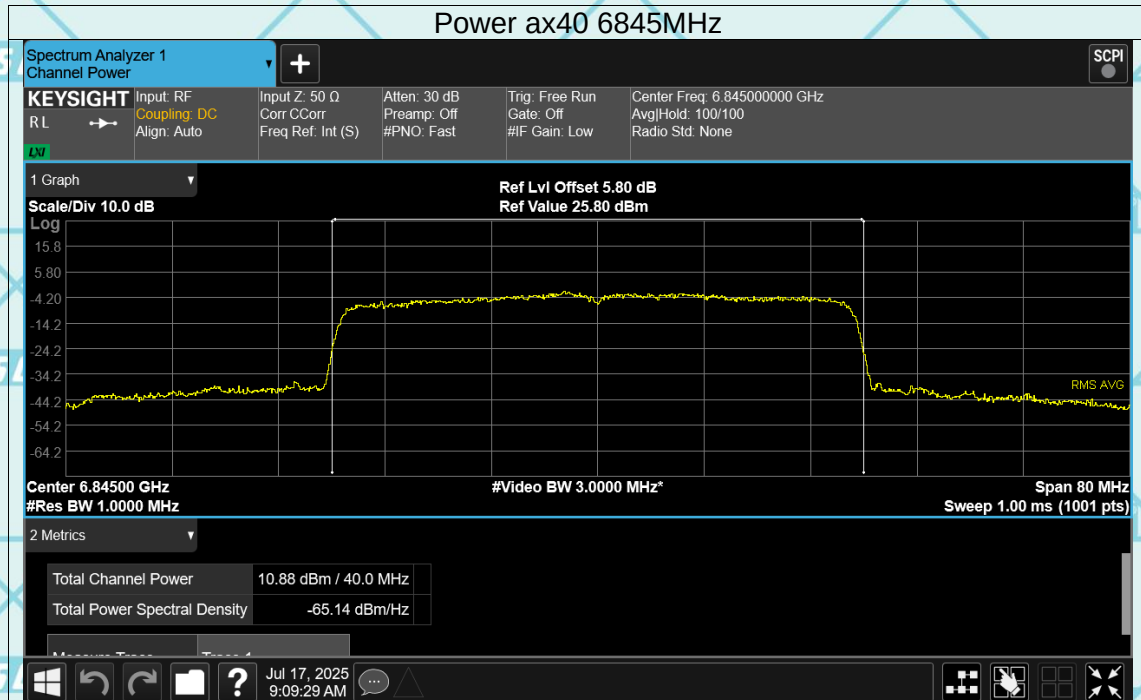


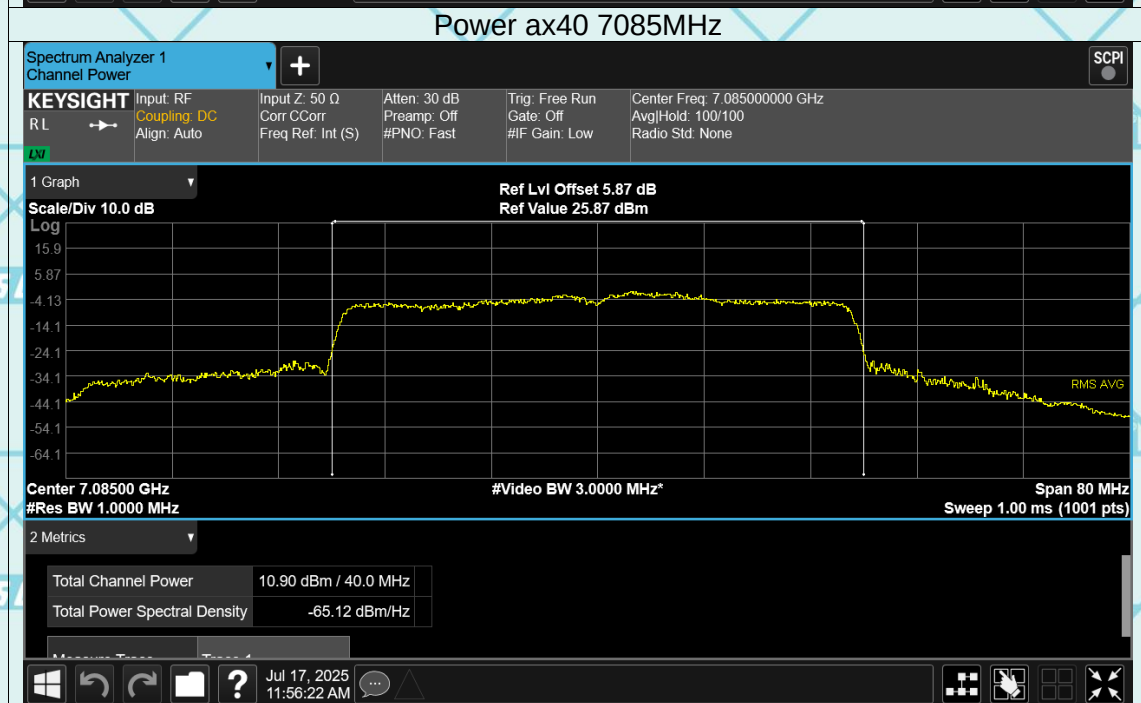
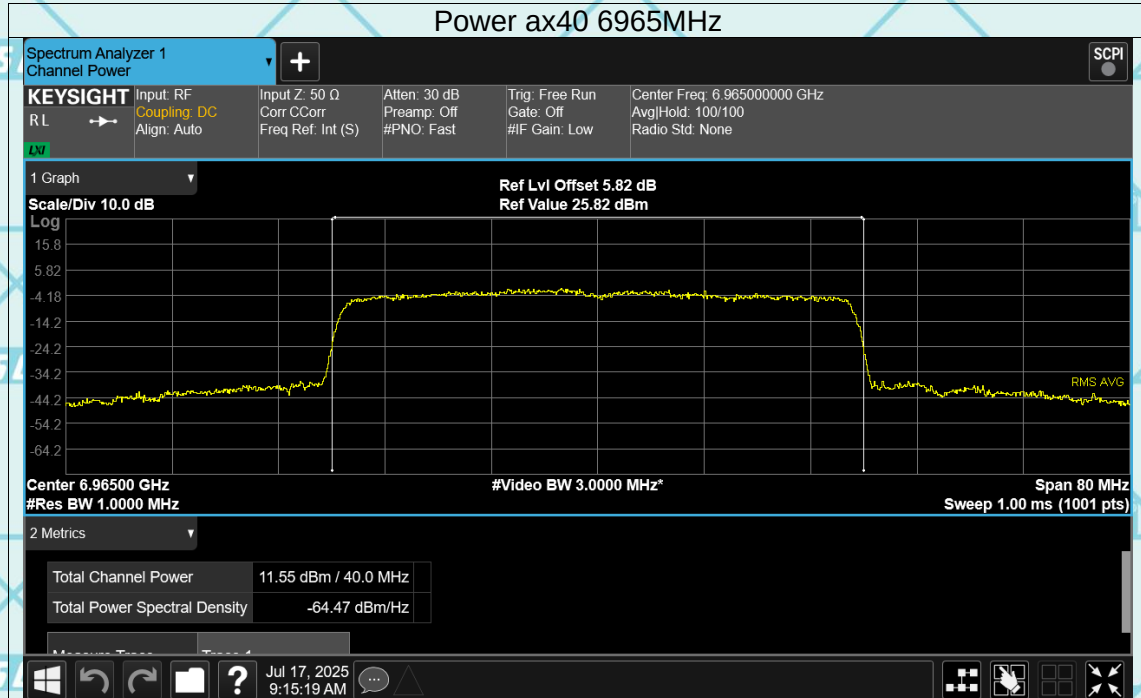


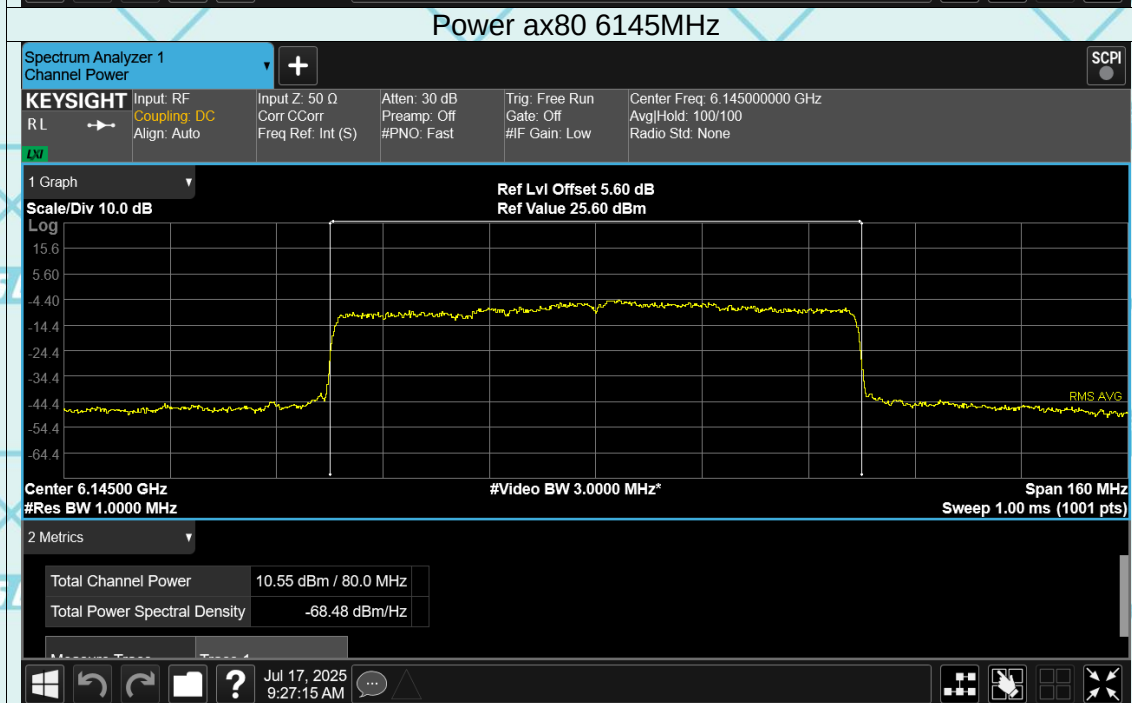
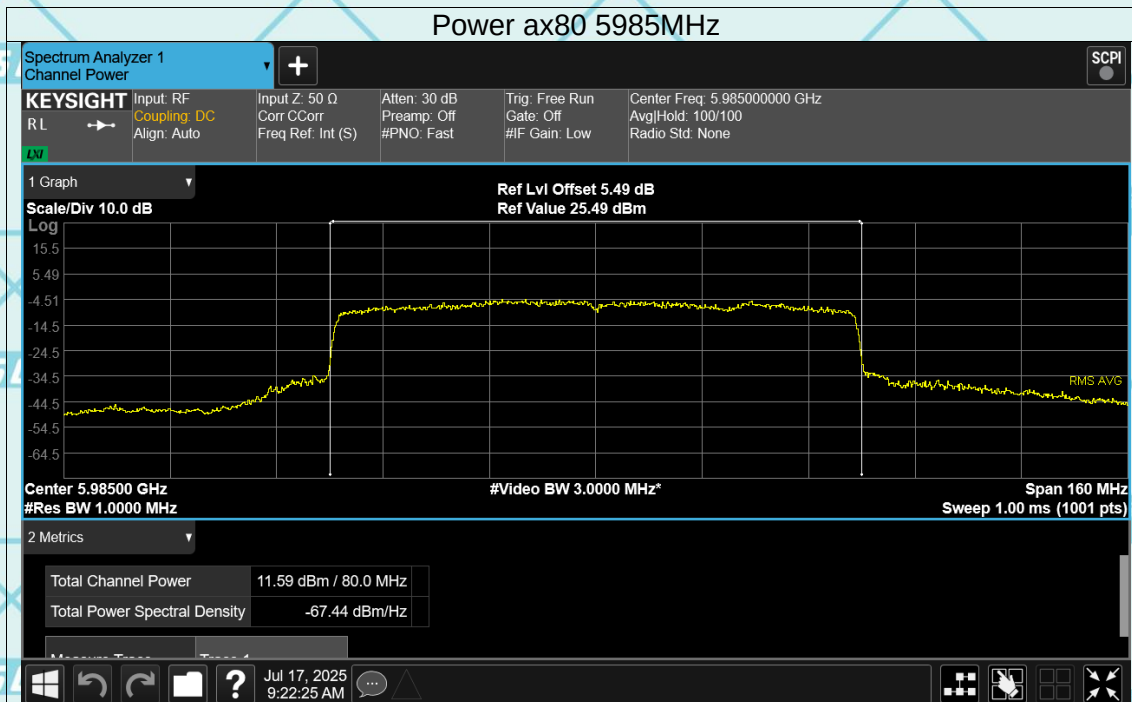


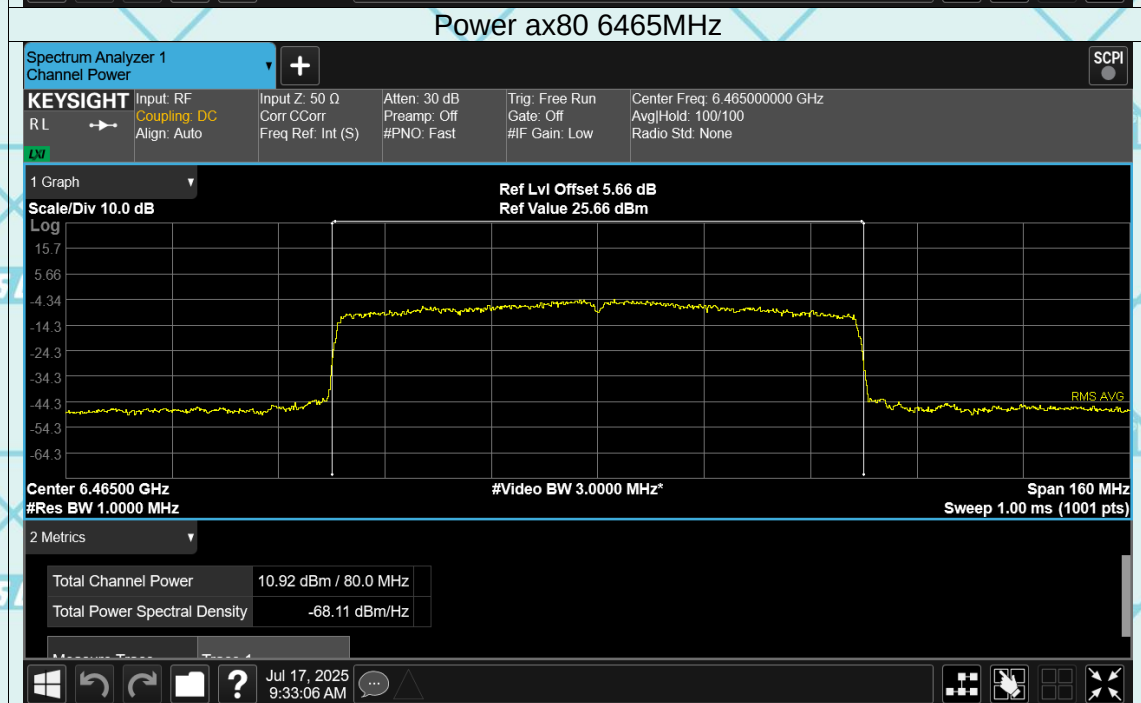
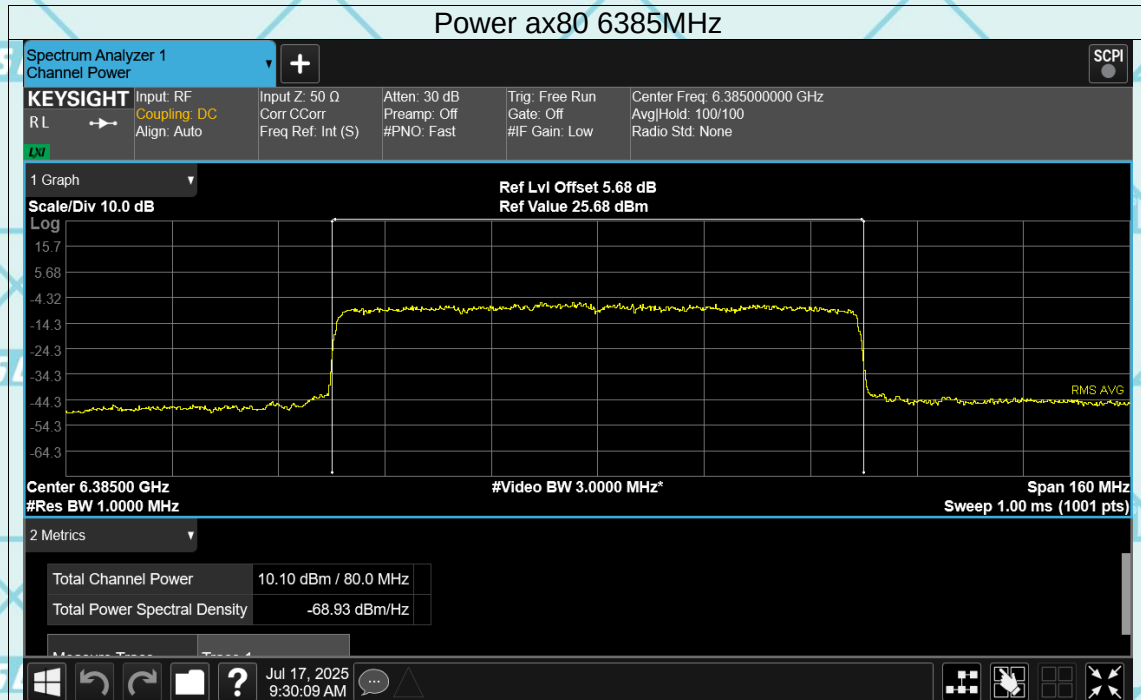


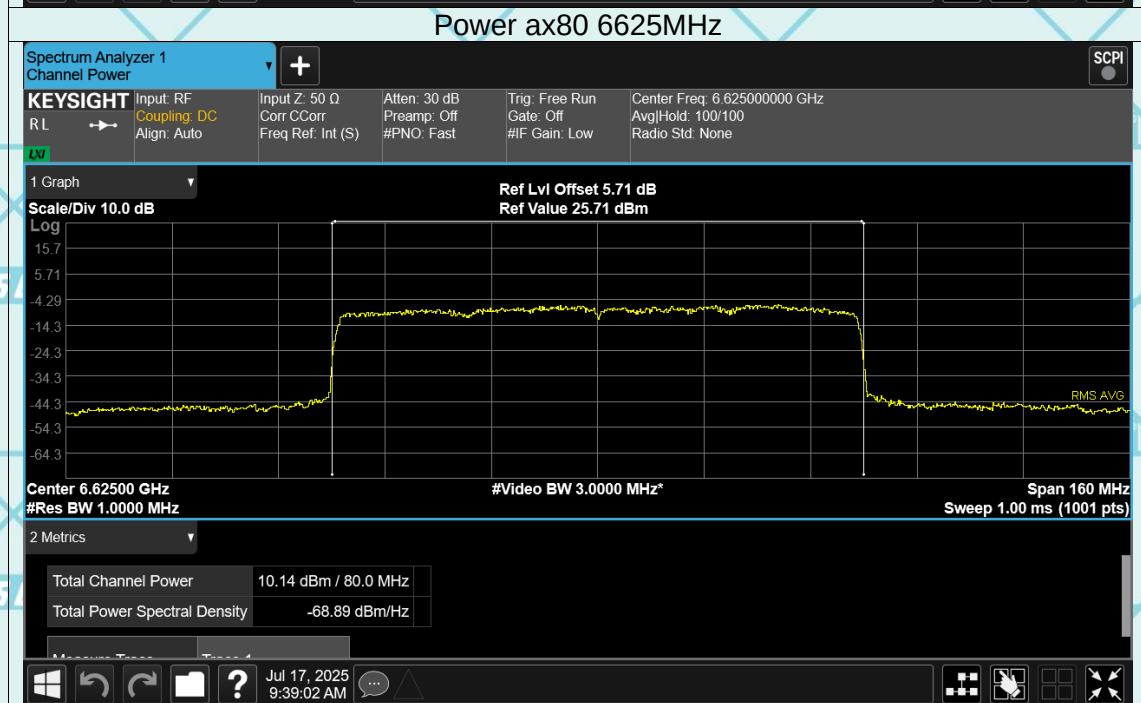
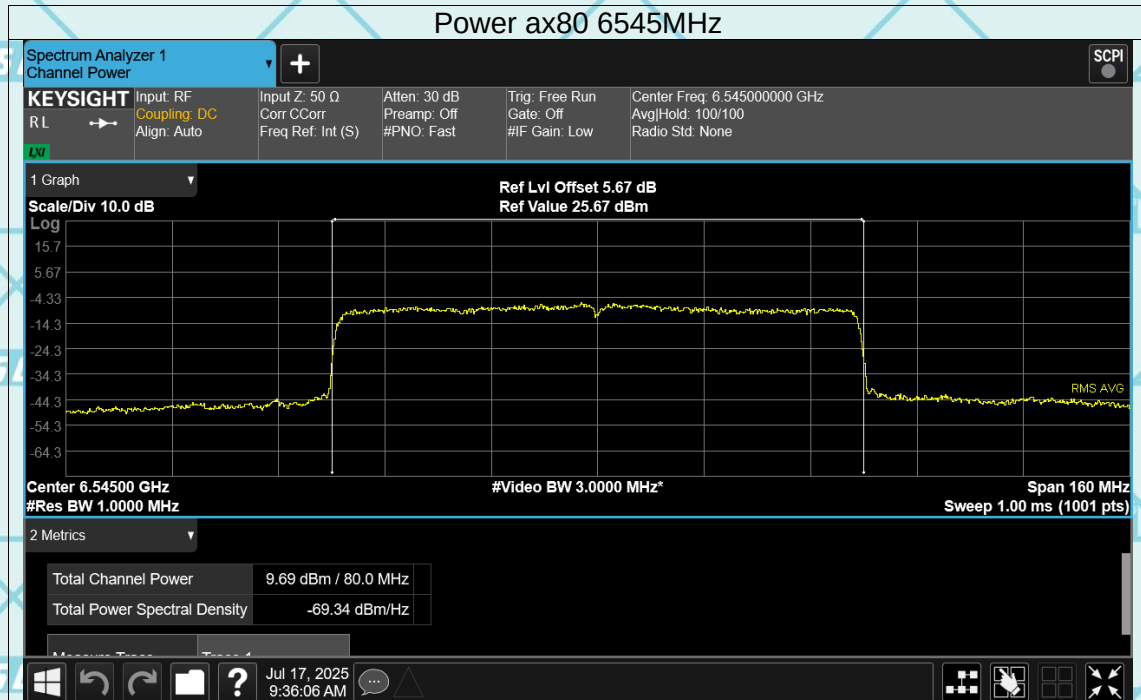


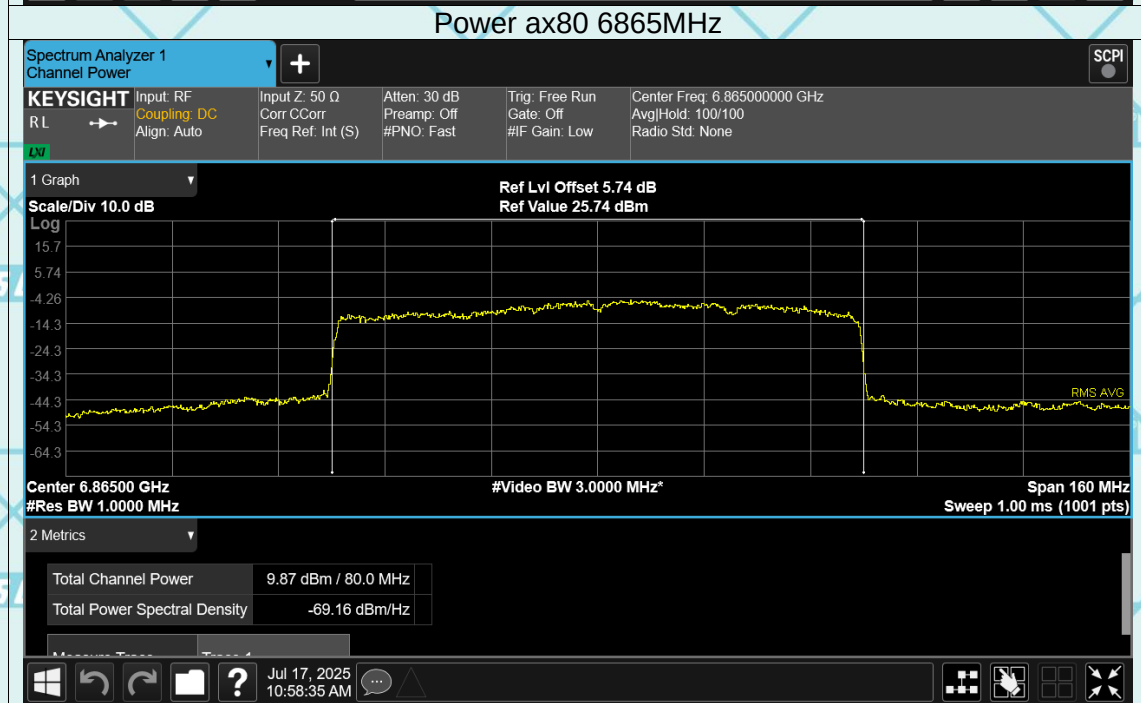
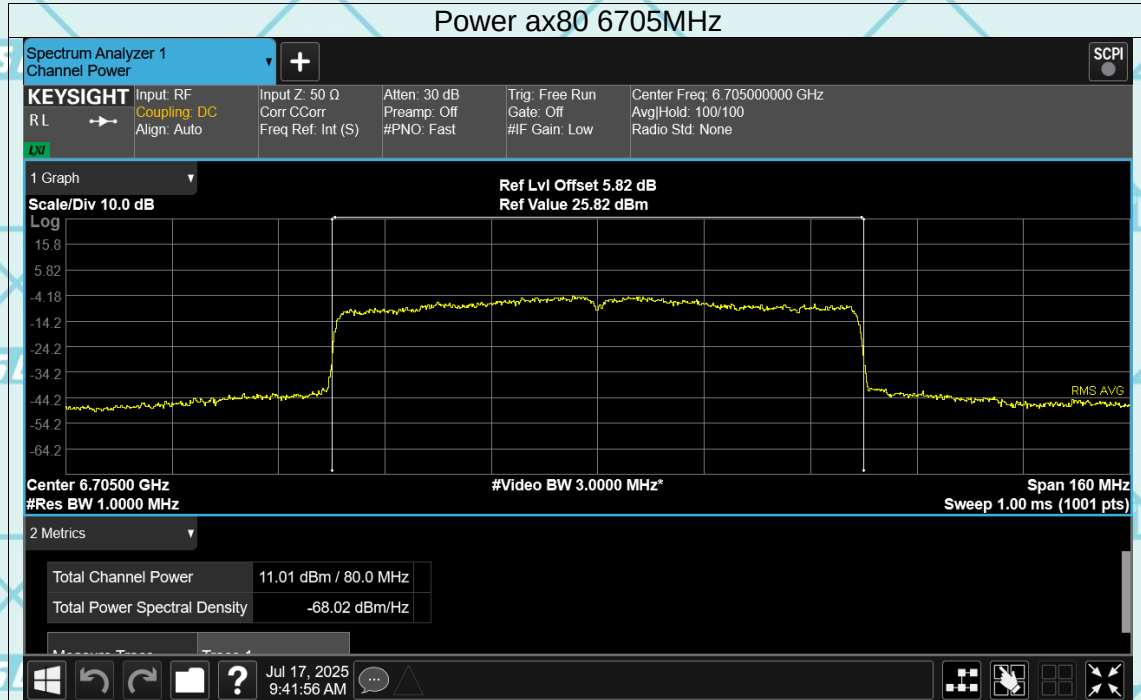


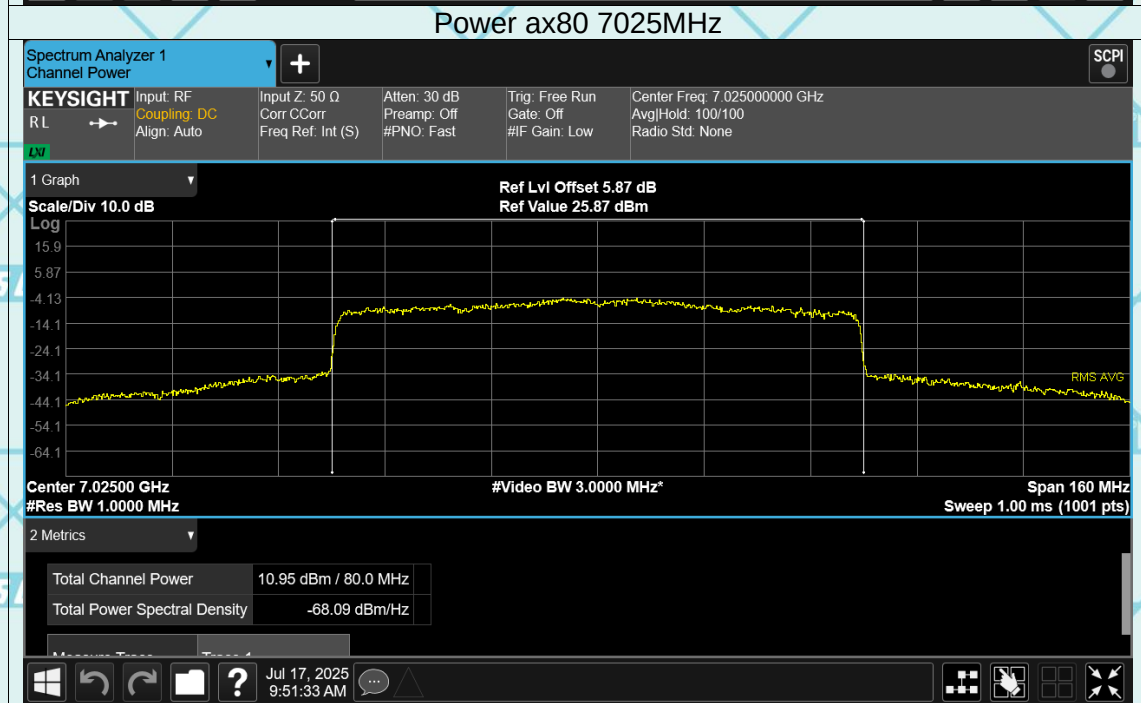
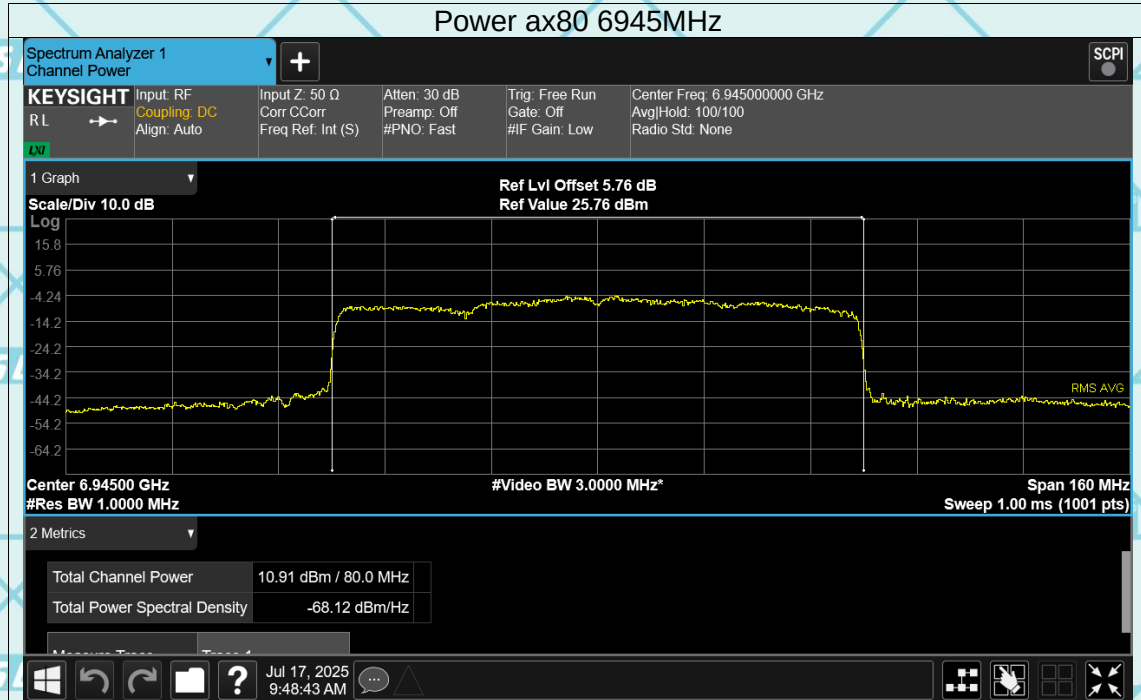


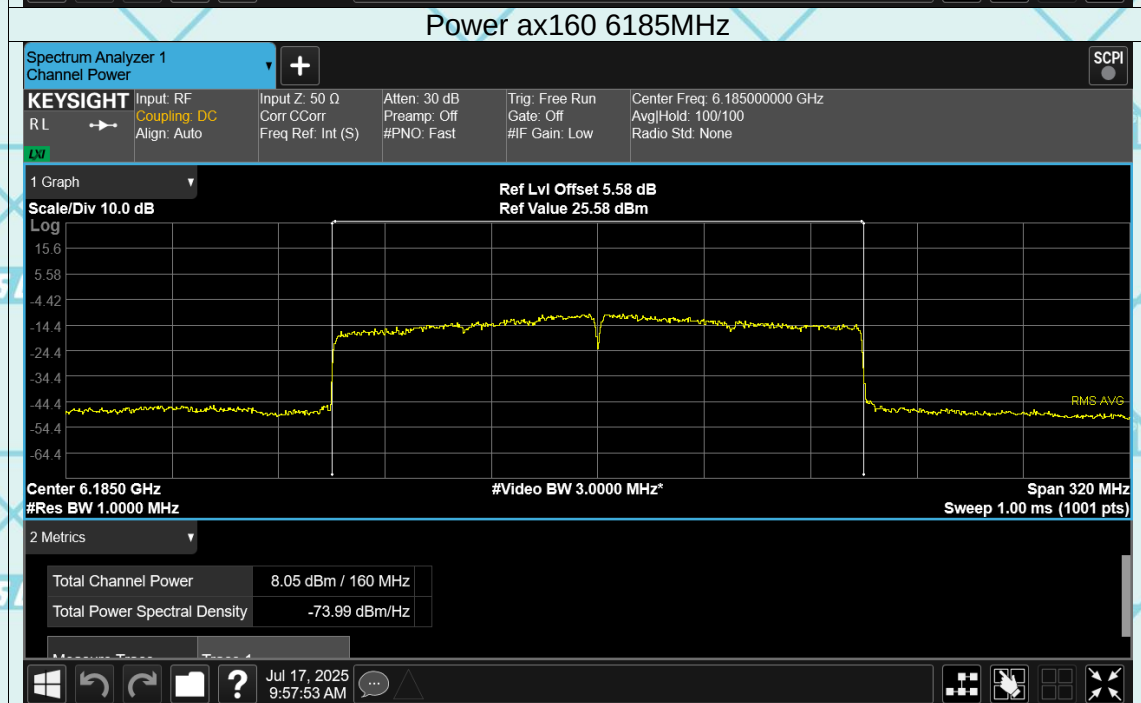
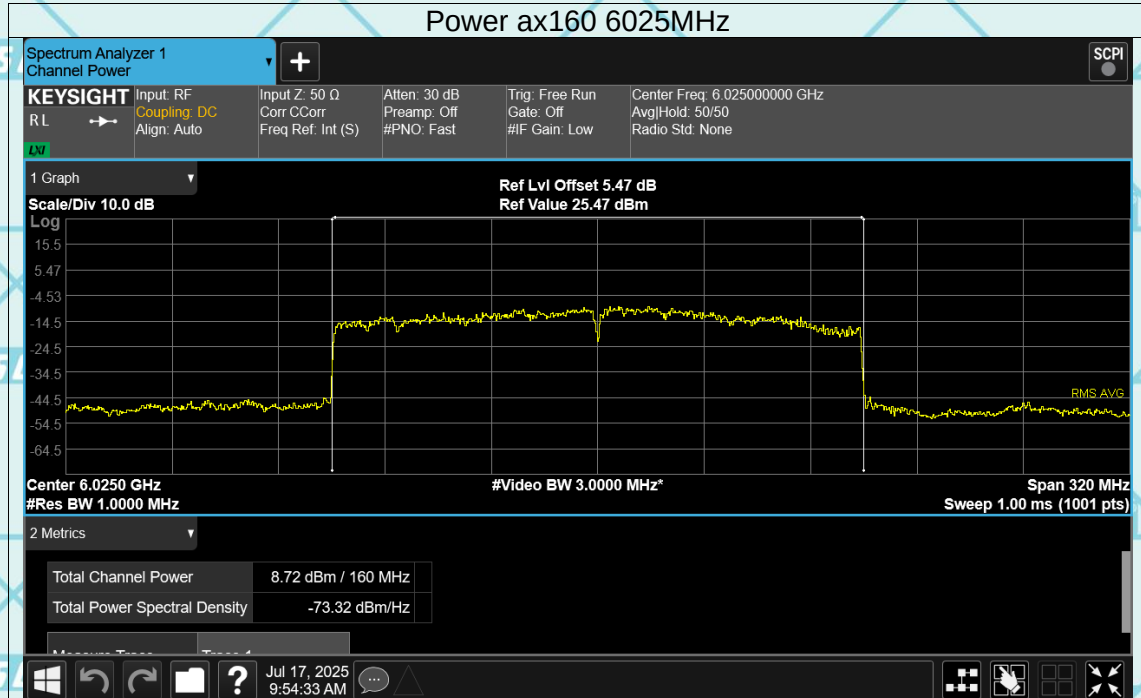


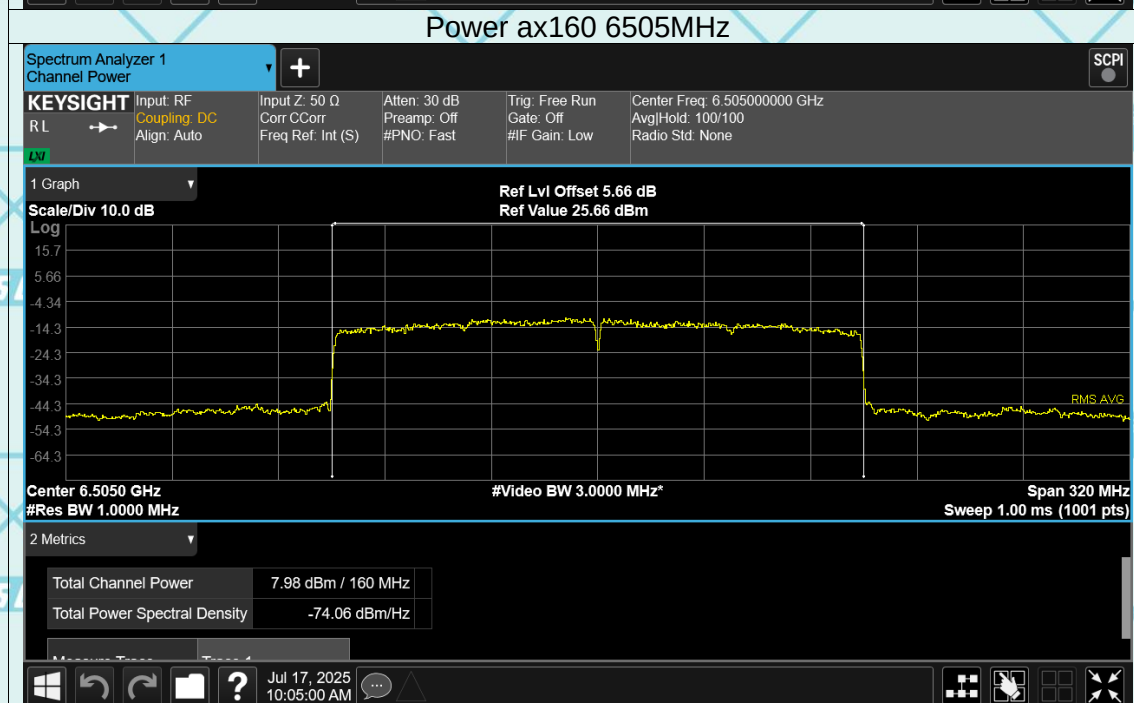
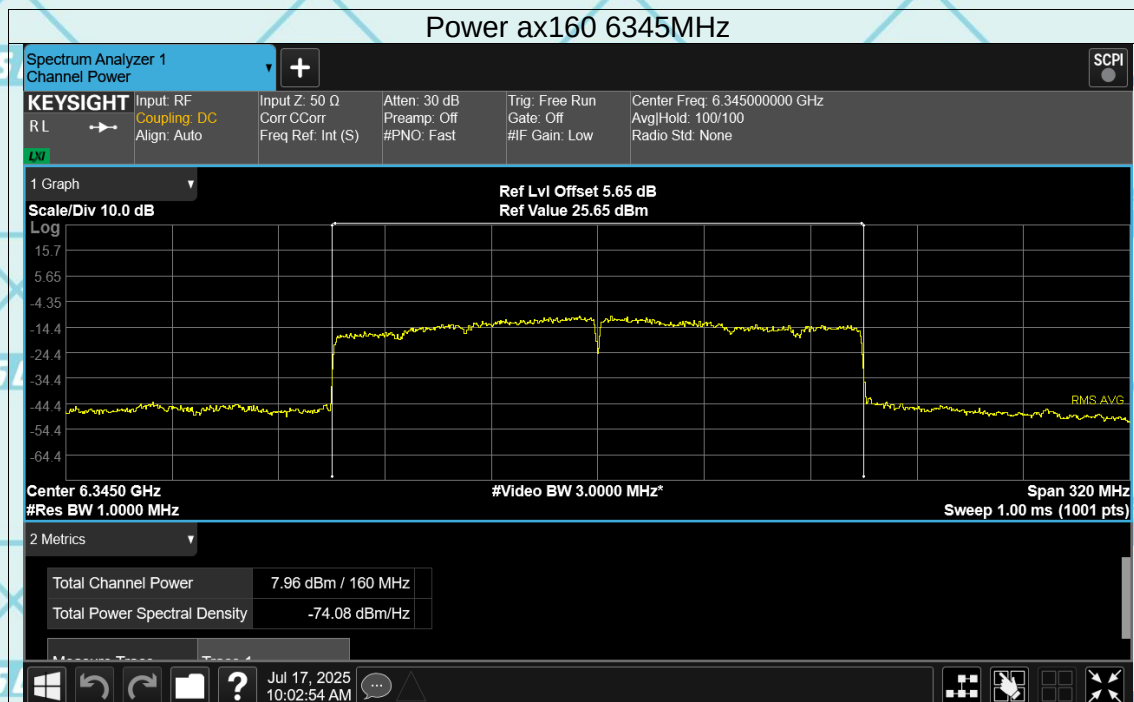


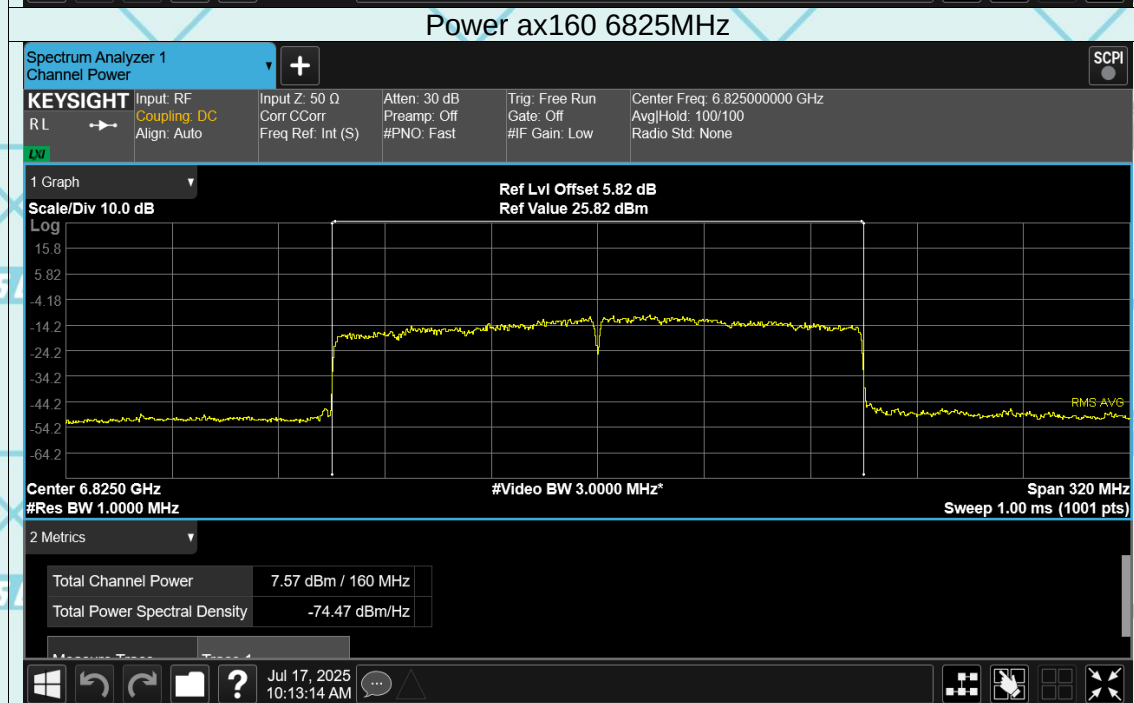
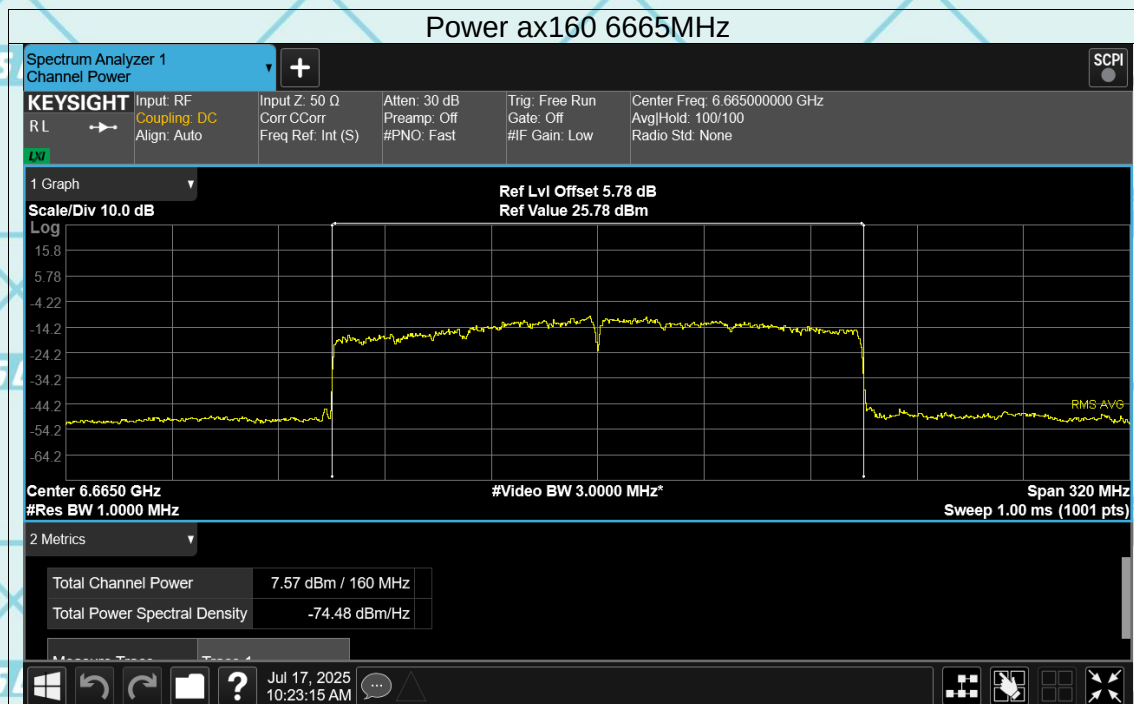


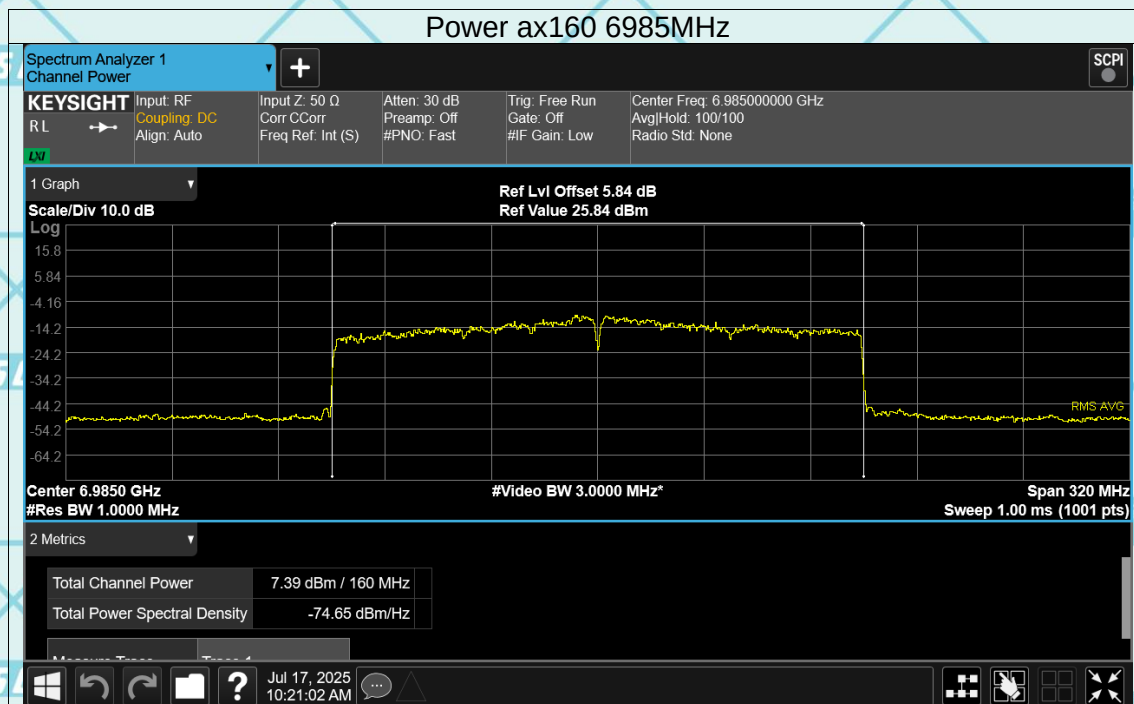












7.7 FUNDAMENTAL POWER SPECTRAL DENSITY MEASUREMENT

7.7.1 LIMIT OF FUNDAMENTAL POWER SPECTRAL DENSITY

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertzband.

7.7.2 MEASURING INSTRUMENTS

See list of measuring equipment of this test report.

7.7.3 TEST PROCEDURES

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.Section F) Maximum power spectral density.

Method SA-3

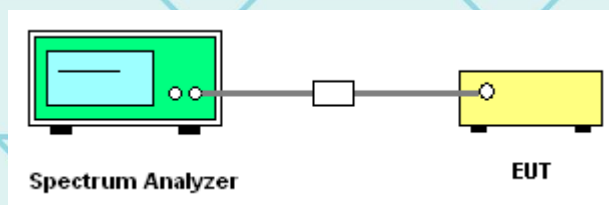
(Power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

7.7.4 TEST SETUP



Test Result of Power Spectral Density

$EIRP\ PSD\ (dBm) = \text{Conducted PSD (dBm)} + \text{Duty Factor (dB)} + \text{Gain (dBi)}$

ANT1

Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Gain (dBi)	eirp PSD (dBm)	Limit (dBm)	Verdict
ax20	5955	-12.695	5.06	2.97	-4.665	-1	Pass
ax20	6175	-13.043	5.06	2.97	-5.013	-1	Pass
ax20	6415	-12.016	5.06	2.97	-3.986	-1	Pass
ax20	6435	-12.093	5.05	2.97	-4.073	-1	Pass
ax20	6475	-12.290	5.06	2.97	-4.260	-1	Pass
ax20	6515	-12.249	5.03	2.97	-4.249	-1	Pass
ax20	6535	-12.375	5.03	2.97	-4.375	-1	Pass
ax20	6695	-12.017	5.06	2.97	-3.987	-1	Pass
ax20	6875	-12.657	5.06	2.97	-4.627	-1	Pass
ax20	6895	-12.077	5.06	2.97	-4.047	-1	Pass
ax20	6995	-12.283	5.05	2.97	-4.263	-1	Pass
ax20	7095	-12.864	5.06	2.97	-4.834	-1	Pass
ax40	5965	-13.823	5.28	2.97	-5.573	-1	Pass
ax40	6165	-13.881	5.28	2.97	-5.631	-1	Pass
ax40	6405	-13.752	5.36	2.97	-5.422	-1	Pass
ax40	6445	-13.584	5.33	2.97	-5.284	-1	Pass
ax40	6485	-14.334	5.28	2.97	-6.084	-1	Pass
ax40	6525	-14.682	5.28	2.97	-6.432	-1	Pass
ax40	6565	-14.299	5.26	2.97	-6.069	-1	Pass
ax40	6685	-14.328	5.28	2.97	-6.078	-1	Pass
ax40	6845	-15.069	5.26	2.97	-6.839	-1	Pass
ax40	6885	-15.085	5.33	2.97	-6.785	-1	Pass
ax40	6965	-14.216	5.26	2.97	-5.986	-1	Pass
ax40	7085	-15.016	5.28	2.97	-6.766	-1	Pass
ax80	5985	-15.594	5.88	2.97	-6.744	-1	Pass
ax80	6145	-12.982	5.83	2.97	-4.182	-1	Pass
ax80	6385	-13.345	5.8	2.97	-4.575	-1	Pass
ax80	6465	-13.961	5.9	2.97	-5.091	-1	Pass
ax80	6545	-13.190	5.9	2.97	-4.320	-1	Pass
ax80	6625	-14.665	5.9	2.97	-5.795	-1	Pass
ax80	6705	-14.325	5.9	2.97	-5.455	-1	Pass
ax80	6865	-15.395	5.9	2.97	-6.525	-1	Pass
ax80	6945	-14.377	5.83	2.97	-5.577	-1	Pass
ax80	7025	-14.331	5.87	2.97	-5.491	-1	Pass
ax160	6025	-15.689	6.81	2.97	-5.909	-1	Pass
ax160	6185	-15.930	6.86	2.97	-6.100	-1	Pass
ax160	6345	-15.782	6.81	2.97	-6.002	-1	Pass
ax160	6505	-16.733	6.81	2.97	-6.953	-1	Pass
ax160	6665	-15.426	6.81	2.97	-5.646	-1	Pass
ax160	6825	-17.490	6.78	2.97	-7.740	-1	Pass
ax160	6985	-16.401	6.81	2.97	-6.621	-1	Pass

ANT2

Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Gain (dBi)	eirp PSD (dBm)	Limit (dBm)	Verdict
ax20	5955	-12.264	4.09	2.73	-5.444	-1	Pass
ax20	6175	-11.692	4.02	2.73	-4.942	-1	Pass
ax20	6415	-11.784	4.02	2.73	-5.034	-1	Pass
ax20	6435	-12.694	5.06	2.73	-4.904	-1	Pass
ax20	6475	-12.094	5.06	2.73	-4.304	-1	Pass
ax20	6515	-12.093	5.03	2.73	-4.333	-1	Pass
ax20	6535	-12.478	4.07	2.73	-5.678	-1	Pass
ax20	6695	-11.317	4.02	2.73	-4.567	-1	Pass
ax20	6875	-11.840	4.02	2.73	-5.090	-1	Pass
ax20	6895	-11.464	4.02	2.73	-4.714	-1	Pass
ax20	6995	-12.293	5.06	2.73	-4.503	-1	Pass
ax20	7095	-11.288	4.02	2.73	-4.538	-1	Pass
ax40	5965	-11.178	4	2.73	-4.448	-1	Pass
ax40	6165	-12.968	5.26	2.73	-4.978	-1	Pass
ax40	6405	-11.748	3.45	2.73	-5.568	-1	Pass
ax40	6445	-13.390	5.28	2.73	-5.380	-1	Pass
ax40	6485	-12.215	5.26	2.73	-4.225	-1	Pass
ax40	6525	-13.190	5.33	2.73	-5.130	-1	Pass
ax40	6565	-13.101	5.33	2.73	-5.041	-1	Pass
ax40	6685	-12.711	5.26	2.73	-4.721	-1	Pass
ax40	6845	-12.910	5.33	2.73	-4.850	-1	Pass
ax40	6885	-12.646	5.26	2.73	-4.656	-1	Pass
ax40	6965	-13.347	5.28	2.73	-5.337	-1	Pass
ax40	7085	-12.287	5.26	2.73	-4.297	-1	Pass
ax80	5985	-13.928	5.8	2.73	-5.398	-1	Pass
ax80	6145	-13.436	5.8	2.73	-4.906	-1	Pass
ax80	6385	-12.798	5.9	2.73	-4.168	-1	Pass
ax80	6465	-15.675	5.9	2.73	-7.045	-1	Pass
ax80	6545	-12.656	5.8	2.73	-4.126	-1	Pass
ax80	6625	-14.190	5.9	2.73	-5.560	-1	Pass
ax80	6705	-13.607	5.83	2.73	-5.047	-1	Pass
ax80	6865	-15.184	6.51	2.73	-5.944	-1	Pass
ax80	6945	-13.164	5.86	2.73	-4.574	-1	Pass
ax80	7025	-16.766	5.83	2.73	-8.206	-1	Pass
ax160	6025	-14.228	6.81	2.73	-4.688	-1	Pass
ax160	6185	-16.220	6.86	2.73	-6.630	-1	Pass
ax160	6345	-16.925	6.86	2.73	-7.335	-1	Pass
ax160	6505	-16.018	6.86	2.73	-6.428	-1	Pass
ax160	6665	-17.228	6.86	2.73	-7.638	-1	Pass
ax160	6825	-16.439	6.81	2.73	-6.899	-1	Pass
ax160	6985	-9.150	0	2.73	-6.420	-1	Pass

MIMO mode

Mode	Frequency (MHz)	Conducted PSD (dBm)	eirp PSD (dBm)	Limit (dBm)	Verdict
ax20	5955	-9.46	-2.03	-1	Pass
ax20	6175	-9.30	-1.97	-1	Pass
ax20	6415	-8.89	-1.47	-1	Pass
ax20	6435	-9.37	-1.46	-1	Pass
ax20	6475	-9.18	-1.27	-1	Pass
ax20	6515	-9.16	-1.28	-1	Pass
ax20	6535	-9.42	-1.97	-1	Pass
ax20	6695	-8.64	-1.26	-1	Pass
ax20	6875	-9.22	-1.84	-1	Pass
ax20	6895	-8.75	-1.36	-1	Pass
ax20	6995	-9.28	-1.37	-1	Pass
ax20	7095	-8.99	-1.67	-1	Pass
ax40	5965	-9.29	-1.96	-1	Pass
ax40	6165	-10.39	-2.28	-1	Pass
ax40	6405	-9.63	-2.48	-1	Pass
ax40	6445	-10.44	-2.32	-1	Pass
ax40	6485	-10.14	-2.05	-1	Pass
ax40	6525	-10.86	-2.72	-1	Pass
ax40	6565	-10.65	-2.51	-1	Pass
ax40	6685	-10.43	-2.34	-1	Pass
ax40	6845	-10.85	-2.72	-1	Pass
ax40	6885	-10.69	-2.58	-1	Pass
ax40	6965	-10.75	-2.64	-1	Pass
ax40	7085	-10.43	-2.35	-1	Pass
ax80	5985	-11.67	-3.01	-1	Pass
ax80	6145	-10.19	-1.52	-1	Pass
ax80	6385	-10.05	-1.36	-1	Pass
ax80	6465	-11.72	-2.95	-1	Pass
ax80	6545	-9.90	-1.21	-1	Pass
ax80	6625	-11.41	-2.67	-1	Pass
ax80	6705	-10.94	-2.24	-1	Pass
ax80	6865	-12.28	-3.21	-1	Pass
ax80	6945	-10.72	-2.04	-1	Pass
ax80	7025	-12.37	-3.63	-1	Pass
ax160	6025	-11.89	-2.25	-1	Pass
ax160	6185	-13.06	-3.35	-1	Pass
ax160	6345	-13.31	-3.61	-1	Pass
ax160	6505	-13.35	-3.67	-1	Pass
ax160	6665	-13.22	-3.52	-1	Pass
ax160	6825	-13.92	-4.29	-1	Pass
ax160	6985	-8.40	-3.51	-1	Pass

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ANT1

