

Figure 1. Emission spectrum from a steady-state Ar/N<sub>2</sub>/H<sub>2</sub> plasma (50/50/50 sccm and 100W RF plasma power) and a spectrum of the same gas mixture exposure during a PE-ALD cycle of AlN. The latter spectrum was recorded after a TMA dosing step during the first 100ms of plasma exposure, while steady-state plasma spectrum was recorded after plasma half-cycle reached saturation.

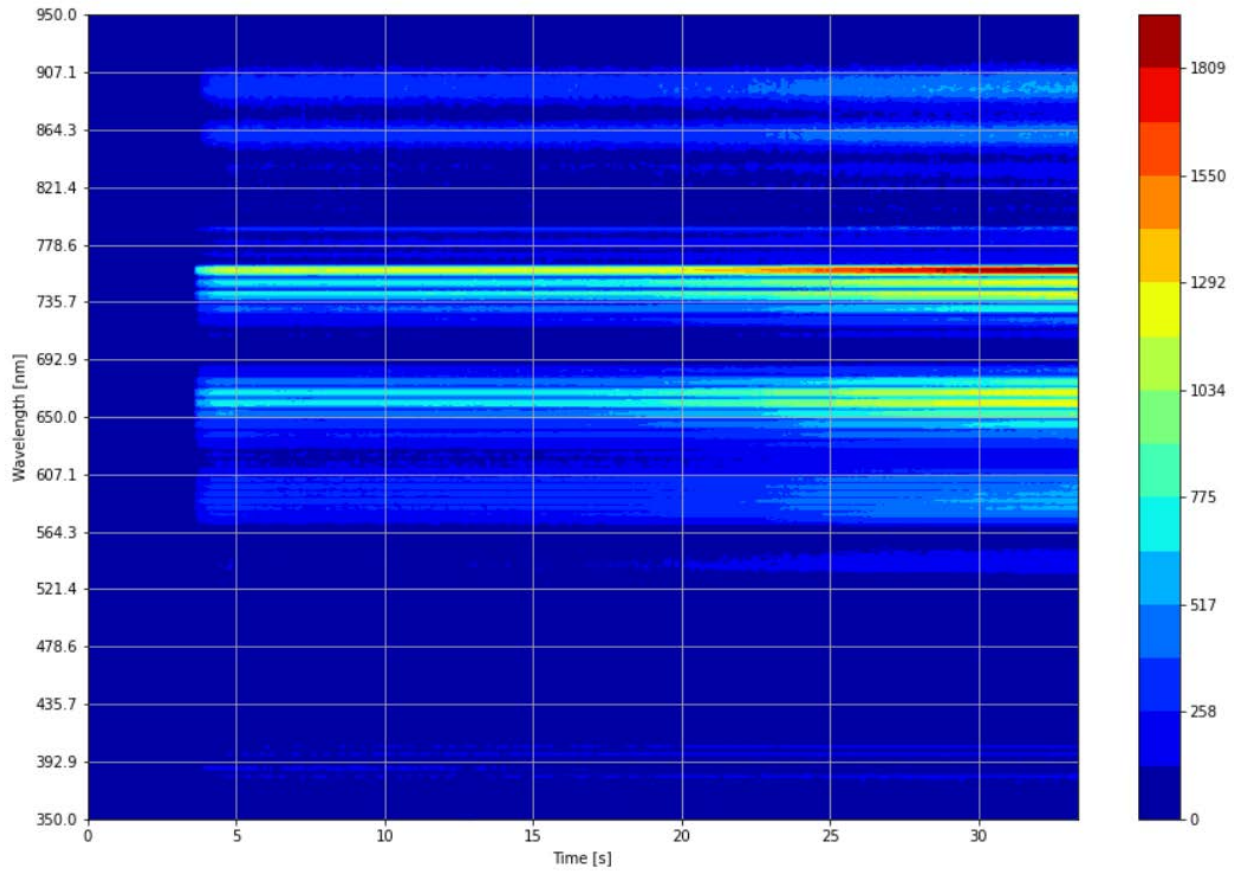


Figure 2. Intensity representation of the same dataset in terms of time and wavelength with color mapping, where plasma ignition occurred at  $t = 4$  seconds.