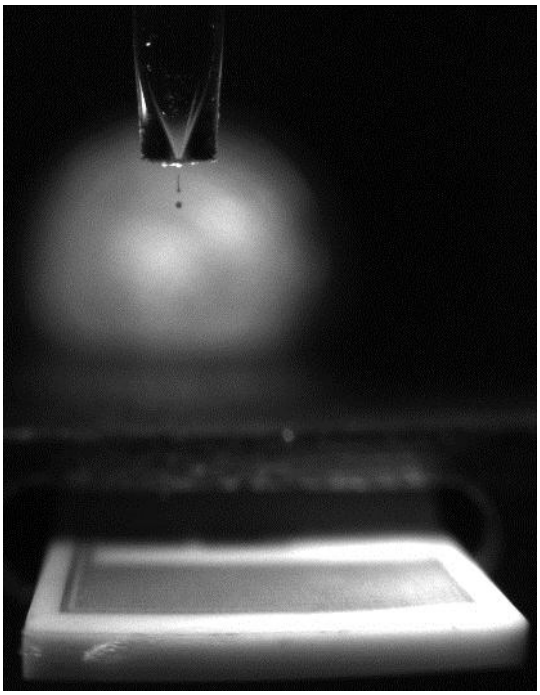
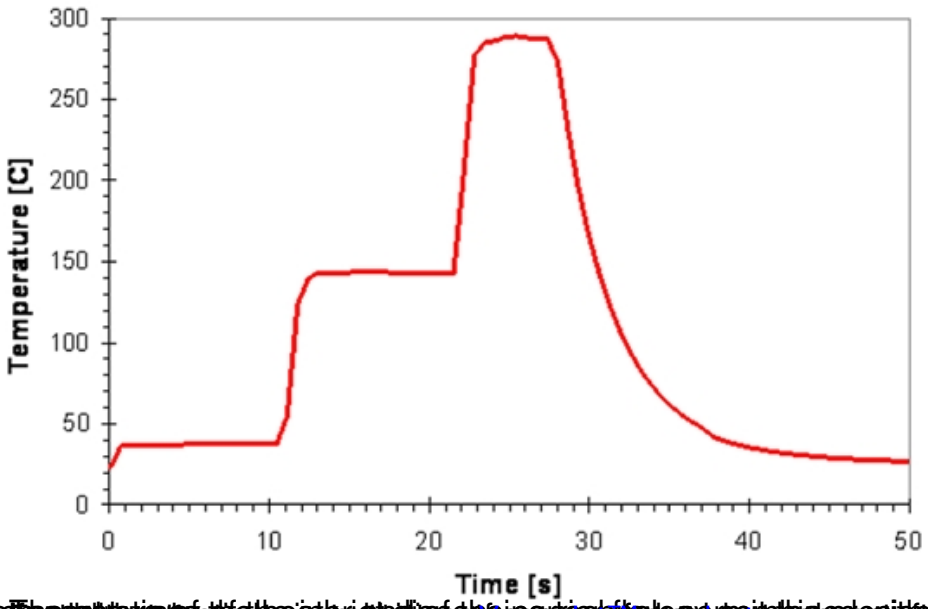


By dispensing small droplets of dilute solutions of explosive onto a heater, the materials vaporize rapidly and are carried away by a gas flow adjusted through a mass flow controller.

Continuous operation has the heater set at a constant temperature while drops are generated at a set frequency. The concentration level can be adjusted almost instantaneously by changing the drop generation characteristics (frequency) and the flow rate.

In *dose mode operation*, a specified number of drops is deposited onto the heater set at a constant base temperature. The temperature of the heater is then raised (rates up to 250°C /second) to evaporate the solvent and then vaporize the explosive. A very flexible temperature control is provided, allowing multiple ramps and constant temperature segments. The constant temperatures and ramp rates are independently adjustable for up to four sets of ramp & constant temperature. The concentration can be adjusted through the flow rate and the number of drops deposited on the heater.



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