



**Fig. S1.** The rate of product (ROP) analysis of the N<sub>2</sub>H<sub>4</sub>/NO/O<sub>2</sub> at [NO]<sub>initial</sub> = 450 ppm, NSR = 2.0, O<sub>2</sub> content = 16.05% at T = 798 K, P = 1.0 atm, τ = 0.3 s.