Ignition Delay Sensitivity, 20 atm, 800 K iso-pentanal+ho2⇔ic4h9co+h2o2 ic5h9oh1-3+ho2⇔ic5h9oh-4ooh-3 ic5h9oh-4ooh-3o2⇔ic5ohket4-3+oh ic5h10oh-4o2 (ROO)⇔ic5h9oh1-3 (enol) +ho2 $h2o2(+M) \Leftrightarrow 2oh(+M)$ = 0.5ic5h11oh+ho2 $\Leftrightarrow \gamma$ -hydroxypentyl+h2o2 ic5h10oh-4o2 (ROO)⇔ic5h9oh-4ooh-2 (QOOH) = 2.0ic5h10oh-3o2 (ROO)⇔ic5h9oh-3ooh-1 (QOOH) ic5h11oh+ho2 $\Leftrightarrow \alpha$ -hydroxypentyl+h2o2 2ho2⇔h2o2+o2 ic5h11oh+oh $\Leftrightarrow \delta$ -hydroxypentyl+h2o α -hydroxypentyl+o2 \Leftrightarrow ic5h10oh-1o2 (ROO) α-hydroxypentyl+o2⇔iso-pentanal+ho2 ic5h11oh+oh $\Leftrightarrow \gamma$ -hydroxypentyl+h2o $ic5h11oh+oh \Leftrightarrow \alpha-hydroxypentyl+h2o$ -80-60 -40 -2020 40 60 80 100 120 Percent Sensitivity, %