Supplemental Information for:

GAS-PHASE REACTION PRODUCTS AND YIELDS OF TERPINOLENE WITH OZONE AND NITRIC OXIDE USING A NEW DERIVATIZATION AGENT

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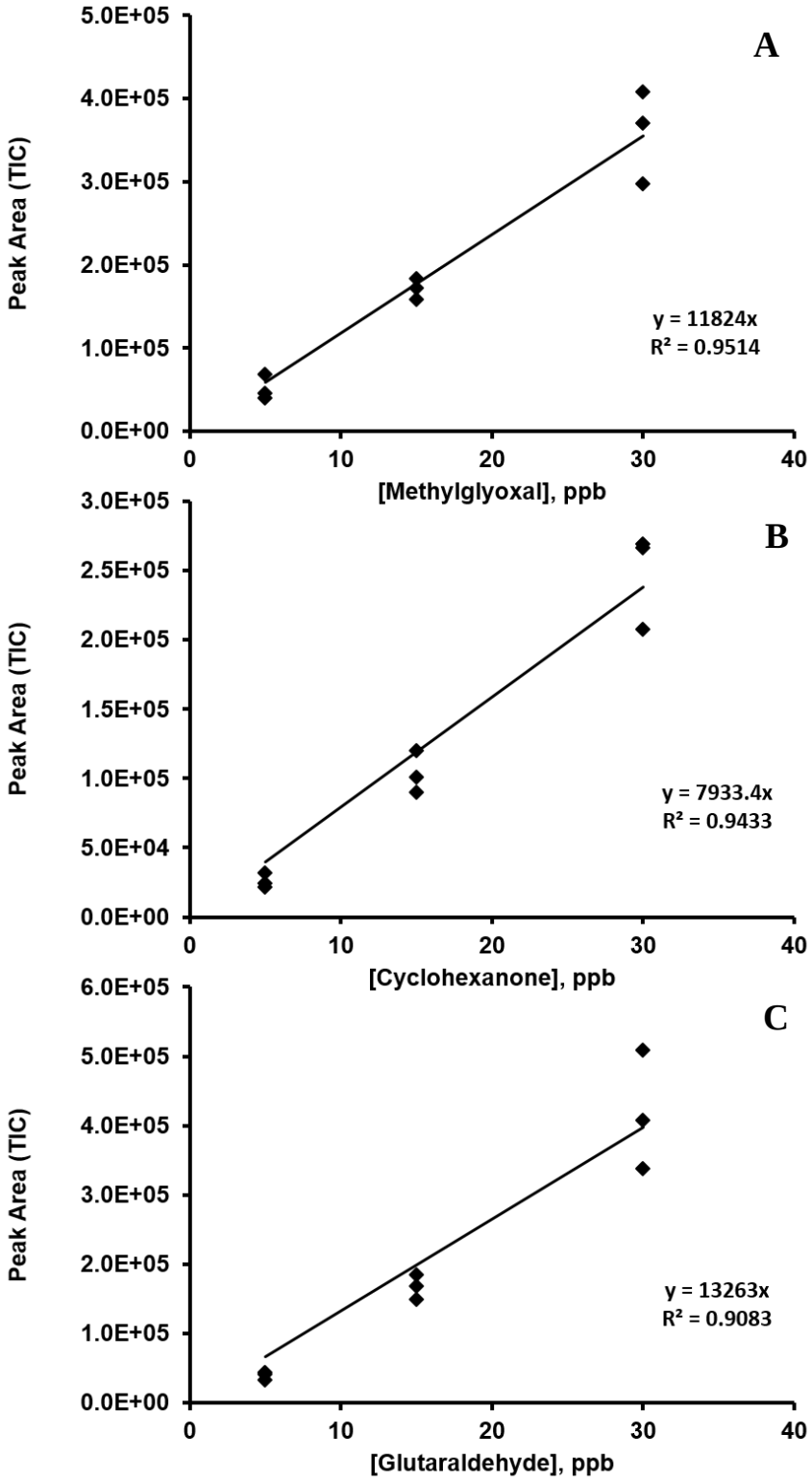

Figure S1. Calibration data for TBOX derivatized methylglyoxal (A), cyclohexanone (B), and glutaraldehyde (C).

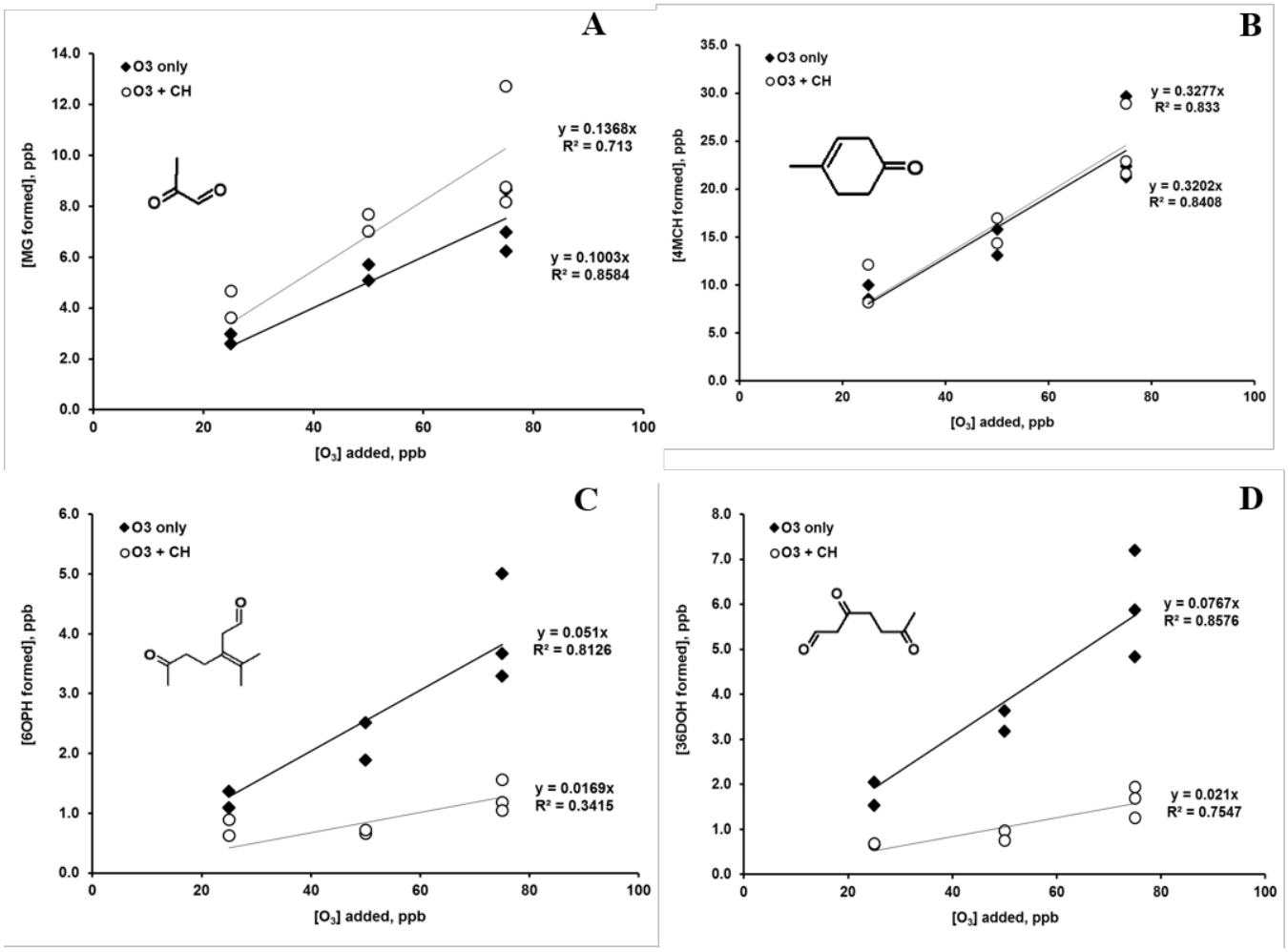

Figure S2. Yield data for the four oxidation products observed from terpinolene ozonolysis. A) Methylglyoxal (MG), B) 4-methylcyclohex-3-en-1-one, (4MCH), C) 6-oxo-3-(propan-2-ylidene) heptanal (6OPH), and D) 3,6-dioxoheptanal (36DOH). Filled diamonds are after adding ozone while open circles are experiments where ozone and OH• radical scavenger cyclohexane were added.

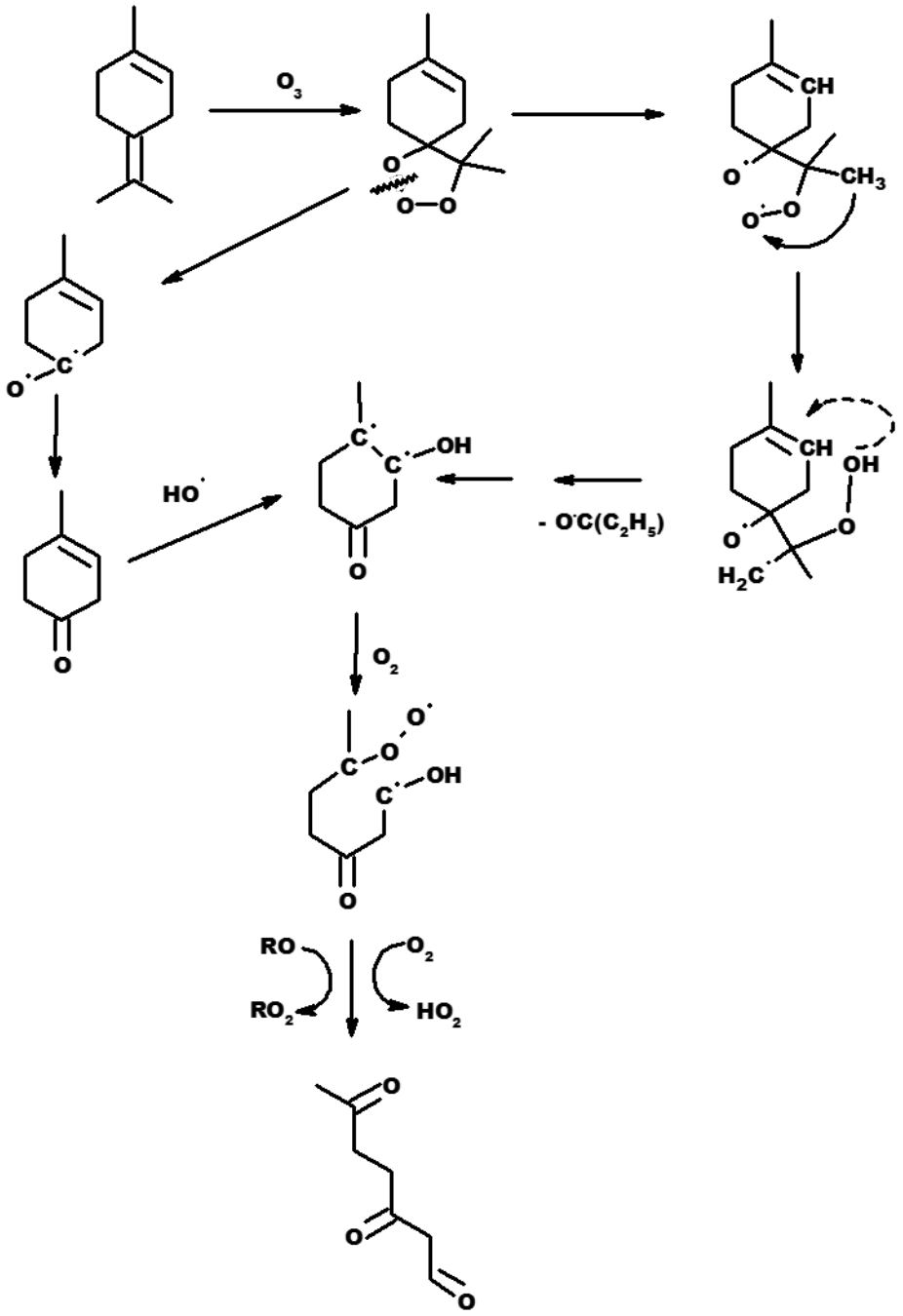

Figure S3. Proposed reaction mechanism for the formation of 3, 6-dioxoheptanal (36DOH)