Dilution-corrected mixing ratio 2018-07-30 Taylor Creek 2013-09-23 Managed understory fire 2019-08-30 Black water fire (WE-CAN) (DISCOVER-AQ) (FIREX-AQ) 200 Obs 40 Obs, fitted Formaldehyde G0 80 M0 30 150 60 **5**ppb (-10% 20 -17ppb (-12%) -14ppb (-22%) ppb (-3%) 100 40 -10ppb (-15%) -1ppb (-4%) -7ppb (-4%) 25 60 11 Acetaldehyde 20 10 50 9 -4ppb (-18%) -2ppb (-11%) 15--13ppb 40 1ppb (6%) 1ppb (7%) -13ppb (-28% 1ppb (10%) -9ppb (-20%) -1ppb (-7%) 8 30 qdd 10 18 9 20 8 Acetone 15 16 10 opb (-16% 6 -1ppb (-4%) ob (-61%) 14 1ppb (-19%) -1ppb (-4%) 5 5 1.75 2.8 Methyl ethyl ketone 2.0 1.50 2.6 1.5 1.25 2.4 pb (41%) -Oppb (-0%) 1.0 2.2 1.00 -0ppb (-9%) -0ppb (-9%) -0ppb (-9%) 2.0 0.75 0.5 100 20 40 60 50 150 50 100 0

Plume age (min)