Dilution-corrected mixing ratio 2018-07-30 Taylor Creek 2018-08-06 Donnell Fire 2018-08-09 Bear Trap Fire 2019-08-30 Black water fire 2013-09-23 Managed understory fire (DISCOVER-AQ) (WE-CAN) (WE-CAN) (WE-CAN) (FIREX-AQ) 78.0 3--0ppb (-37%) -0ppb (-18%) Oppb (18%) -1ppb (-59%) -1ppb (-72%)  $1.5^{-1}$ Methylfuran 2 0.6 2 1.0 1.0 0.4 0.5 Obs 0.5 0.2  $MCM_{BBVOC}$ 0.0 0.0 0.0 1.5 -0ppb (-88%) -1ppb (-90%) -1ppb (-87%) -0ppb (-77%) 8.0 1.00 **Dimethylfuran** 1.0 1.0 0.6 0.75 0.4 0.50 0.5 0.5 0.2 0.25 0.0 0.00 0.0 0.0 0.0 1.5 -0ppb (-67%) • -0ppb (-68%) 1.00 -0ppb (-50%) -0ppb (-50%) 1.00 0.8 1.5 O.75 0.50 0.75 1.0 0.6 1.0 0.50 0.4 0.5 0.5 0.25 0.25 0.2 qdd 0.00 0.00 0.0 0.0 0.0 0.3 -0ppb (-78%) <sub>0.20</sub> -**0**ppb (-67%) Oppb (31%) 8.0 0.4 0.4 0.6 0.15 0.2 Creosol 0.10 0.2 0.2 0.1 0.05 0.2 0.0 0.00 0.0 0.0 0.0 -0ppb (-87%) <sub>0.08</sub> -0ppb (-72%) <sub>0.08</sub> 0.06 Oppb (14%) 0.03 0.20 Syringo 0.10 0.06 0.06 0.04 0.02 0.04 0.04 0.02 0.01 0.02 0.05 0.02 0.00 0.00 0.00 0.00 0.00 0.08 • -0ppb (-86%) 0.15 -0ppb (-90%) -0ppb (-94%) 0.04 Sesquiterpenes
0 0 0
0 0 0 0.10 0.06 0.03 0.10 0.04 0.02 0.05 0.05 0.02 0.01 3000-1500.00 10000.00 0.00 0.00 200 250 60 50 100 150 100 200 50 Ó 20 40 0

Plume age (min)