V_{mix} = 170.878 m^3 (from paragraph (f) of this section)

V_{PMstd} = 0.925 m^3 (from paragraph (f) of this section)

V_{sdastd} = 0.527 m^3 (from paragraph (f) of this section)

m_{PMfil} = 0.0000045 g

$m_{PMbkgnd}$ = 0.0000014 g

$$m_{PM} = \left(\frac{170.878}{0.925 - 0.527} \right) \cdot (0.0000045 - 0.0000014) = 0.00133 \text{ g}$$

(2) If you sample PM onto a single filter as described in § 1066.815(b)(4), calculate m_{PM} using the following equation:

$$m_{PM} = \left(\frac{V_{mix}}{\frac{(V_{ct\text{-}PMstd} - V_{ct\text{-}sdastd})}{0.43} + (V_{s\text{-}PMstd} - V_{s\text{-}sdastd}) + \frac{(V_{ht\text{-}PMstd} - V_{ht\text{-}sdastd})}{0.57}} \right) \cdot (m_{PMfil} - m_{PMbkgnd})$$

Eq. 1066.605-3