

$$W_{\text{HC}} = \frac{M_{\text{HC}_{\text{exh}}}}{M_{\text{F}}} \times \frac{G_{\text{FUEL}}}{\text{TC}} \times \frac{\text{WHC}}{10^4}$$

$$W_{\text{CO}} = \frac{M_{\text{CO}}}{M_{\text{F}}} \times \frac{G_{\text{FUEL}}}{\text{TC}} \times \text{WCO}$$

$$W_{\text{NO}_X} = \frac{M_{\text{NO}_X}}{M_{\text{F}}} \times \frac{G_{\text{FUEL}}}{\text{TC}} \times \frac{\text{WNO}_X}{10^4} \times K_{\text{H}}$$