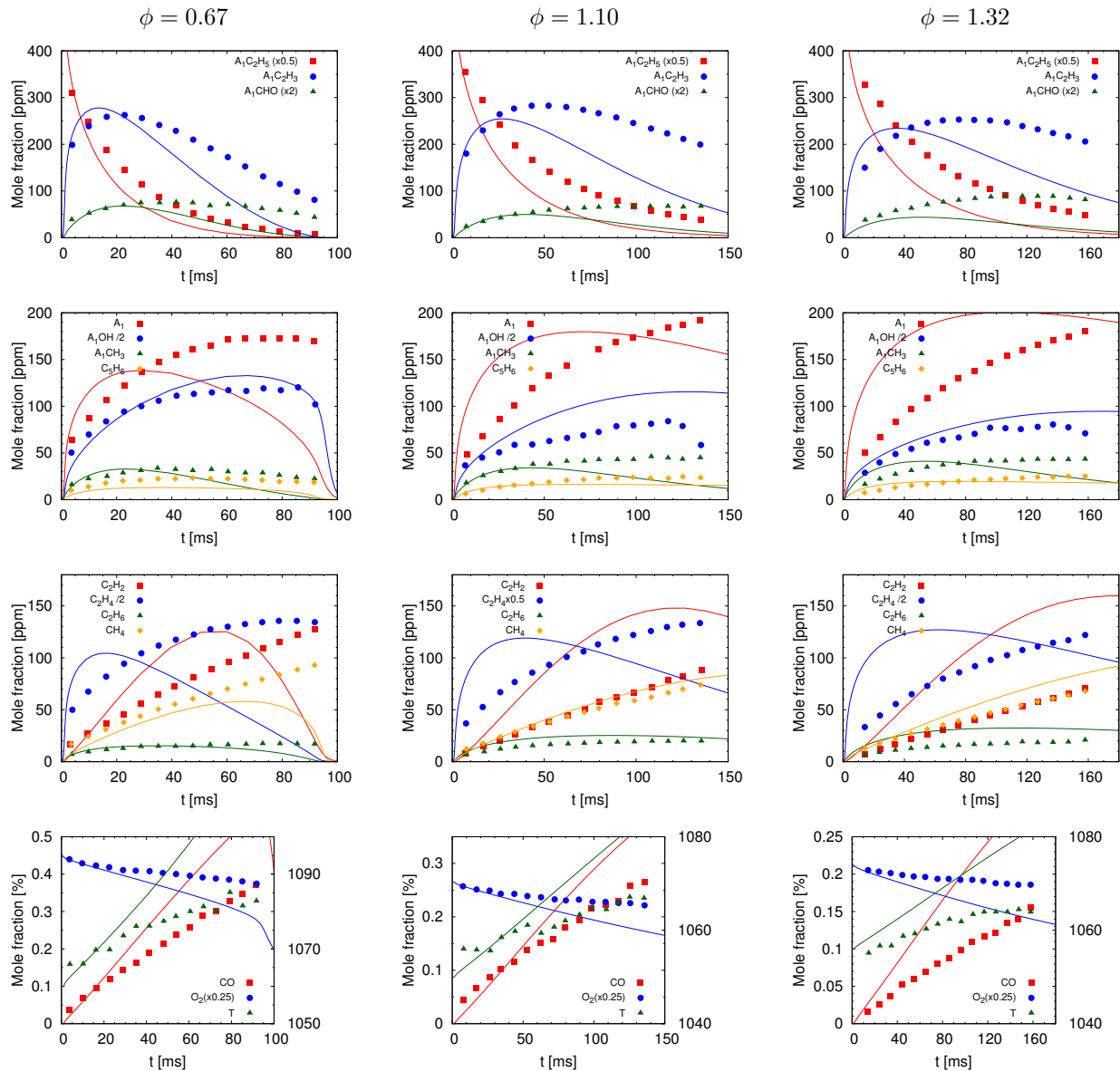


## Plug Flow Reactor



The initial concentrations of fuel and oxygen were extrapolated from the measured values, resulting in small differences with the listed values.

$\phi = 0.64 \rightarrow 0.67$  with  $X_F = 0.115\%$  and  $X_{O_2} = 1.791\%$ .

$\phi = 0.95 \rightarrow 1.10$  with  $X_F = 0.111\%$  and  $X_{O_2} = 1.062\%$ .

$\phi = 1.30 \rightarrow 1.32$  with  $X_F = 0.107\%$  and  $X_{O_2} = 0.850\%$ .

## References

- [1] T. A. Litzinger, K. Brezinsky, I. Glassman, The oxidation of ethylbenzene near 1060K, *Combust. Flame* 63 (1986) 251–267.