

Compound	Lab avg EF	Lab eqn slope <sup>a</sup>	Lab eqn intercept	Lab-based prediction	Liu et al. (2017) EF	Predicted/ field	Lab avg/ field avg
CO <sub>2</sub>	1646.90	2804.24	-960.40	1600	1454	1.10	1.13
CO	78.16	-1049.297	1053.751	95.74	89.30	1.07	0.88
CH <sub>4</sub>	3.31	-81.531	79.112	4.76	4.90	0.97	0.68
NO <sub>x</sub> as NO	2.98	22.6627	-18.2162	2.47	0.49	5.04	6.08
Acetic acid	1.88	-32.3429	31.9418	2.41	-	-	-
NO	1.81	12.6048	-9.9742	1.53	0.11	13.91	16.45
Formaldehyde	1.68	-30.4300	29.9621	2.18	2.29	0.95	0.73
Ethylene	1.63	-16.6799	17.1354	1.91	0.91	2.10	1.79
SO <sub>2</sub>	1.37	-7.9297	8.7467	1.51	0.32	4.72	4.29
Methanol	1.32	-36.3839	35.1443	1.93	2.45	0.79	0.54
NO <sub>2</sub>	1.20	-4.9035	5.7873	1.31	0.58	2.26	2.07
Ammonia	1.10	-31.3876	30.2792	1.62	-	-	-
Furaldehyde	0.82	-13.9054	13.7561	1.06	-	-	-
Hydroxyacetone	0.80	-15.9636	15.6891	1.11	1.13	0.98	0.71
Glycolaldehyde	0.73	-11.4308	11.3395	0.90	-	-	-
Phenol	0.70	-15.0074	14.7376	1.03	-	-	-
Propene	0.61	-10.0850	9.9817	0.77	0.35	2.20	1.74
HONO	0.56	-2.4751	2.8703	0.61	-	-	-
Acetylene	0.45	-2.4893	2.7722	0.50	0.24	2.08	1.89
HCN	0.36	-7.3943	7.2227	0.47	0.34	1.38	1.06
Formic acid	0.27	-5.3701	5.2629	0.36	-	-	-
Furan	0.23	-5.3695	5.2244	0.32	0.51	0.63	0.45
1,3-Butadiene	0.17	-9.8599	9.3401	0.34	0.06	5.67	2.83
HCl	0.11	-2.5126	2.4661	0.17	0.004	35	27.5
Average ratio smoldering compounds <sup>b</sup>						0.96	0.76
SD ratio						0.29	0.23
Fractional uncertainty						0.30	0.30

<sup>a</sup> The slope and intercept parameters enable calculation of EF at alternate MCE values. <sup>b</sup> Average of less reactive and moderately reactive species: includes formaldehyde, methanol, hydroxyacetone, and HCN. Reactive smoldering compounds were left out.