

Inversion experiments	Observational constraints	Annual Chinese NMVOC emission estimates (Tg yr ⁻¹)			
	from satellites (± uncertainties)	Anthropogenic	Biogenic	Biomass burning	Total
		A priori emission estimates (uncertainty)			
		18.8 (5.4 for aromatics) ^a (factor of 2 uncertainty)	17.3 (7.5 for isoprene) ^b (±55 % uncertainty)	2.27 (factor of 3 uncertainty) ^c	38.3
		A posteriori emission estimates (range of estimates)			
IE-1	GOME-2A formaldehyde (±90 %) and glyoxal (±150 %)	17.8 (5.8 for aromatics)	20.0 (9.8 for isoprene)	2.27	40.1
IE-2	OMI formaldehyde (±90 %) and glyoxal (±150 %)	16.4 (5.5 for aromatics)	12.2 (5.4 for isoprene)	2.08	30.7
IE-3	GOME-2A formaldehyde × 170 % (±90 %)	23.6 (6.6 for aromatics)	22.8 (11.3 for isoprene)	3.13	49.5
IE-4	OMI glyoxal (±150 %)	23.0 (7.9 for aromatics)	21.6 (11.7 for isoprene)	2.43	47.0
Average top-down estimates		20.2 (6.5 for aromatics)	19.2 (9.6 for isoprene)	2.48	41.9