

Supplement of:

Oxidative capacity and radical chemistry in a semi-arid and
petrochemical-industrialized city, Northwest China

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Table S1 Concentration of measured VOCs species at two sampling sites in the summertime

Species	Concentration (ppbv)		Species	Concentration (ppbv)	
	S1	S2		S1	S2
Propane	1.64	10.15	Propylene	2.37	5.36
n-Butane	0.30	3.97	1-Butene	1.15	2.33
i-Butane	1.85	5.11	cis-2-Butene	1.11	0.67
n-Pentane	0.14	3.24	trans-2-Butene	0.46	2.41
Cyclopentane	0.90	4.10	1-Pentene	0.51	0.75
i-Pentane	0.76	4.87	cis-2-Pentene	0.42	0.53
n-Hexane	0.06	1.78	trans-2-Pentene	0.19	0.96
2,2-Dimethylbutane	0.19	0.50	Isoprene	0.07	1.06
2,3-Dimethylbutane	0.33	0.14	1-Hexene	0.09	1.14
2-Methylpentane	0.35	0.44	Benzene	0.18	3.64
3-Methylpentane	0.48	0.57	Toluene	0.73	3.25
Methylcyclopentane	0.19	0.25	Styrene	0.06	2.79
Cyclohexane	1.12	2.78	Ethylbenzene	0.11	2.60
n-Heptane	0.07	2.40	m-Xylene	0.20	2.03
2,3-Dimethylpentane	0.21	2.31	p-Xylene	0.18	2.05
2,4-Dimethylpentane	0.12	0.37	o-Xylene	0.19	2.71
2-Methylhexane	0.22		i-Propylbenzene	0.09	2.22
3-Methylhexane	0.28	1.39	n-Propylbenzene	0.54	0.40
Methylcyclopentane	0.21	2.57	1,2,3-Trimethylbenzene	0.03	1.66
n-Octane	0.53	2.32	1,2,4-Trimethylbenzene	0.08	0.76
2-Methylheptane	0.73	1.96	1,3,5-Trimethylbenzene	0.13	1.74
3-Methylheptane	0.45	1.83	m-Ethyltoluene	0.34	1.47
2,2,4-Trimethylpentane	0.31	2.08	p-Ethyltoluene	0.14	2.64
2,3,4-Trimethylpentane	0.25	2.23	o-Ethyltoluene	0.12	0.59
n-Nonane	0.10	1.74	m-Diethylbenzene	0.02	1.29
n-Decane	0.13	1.87	p-Diethylbenzen	0.03	1.52

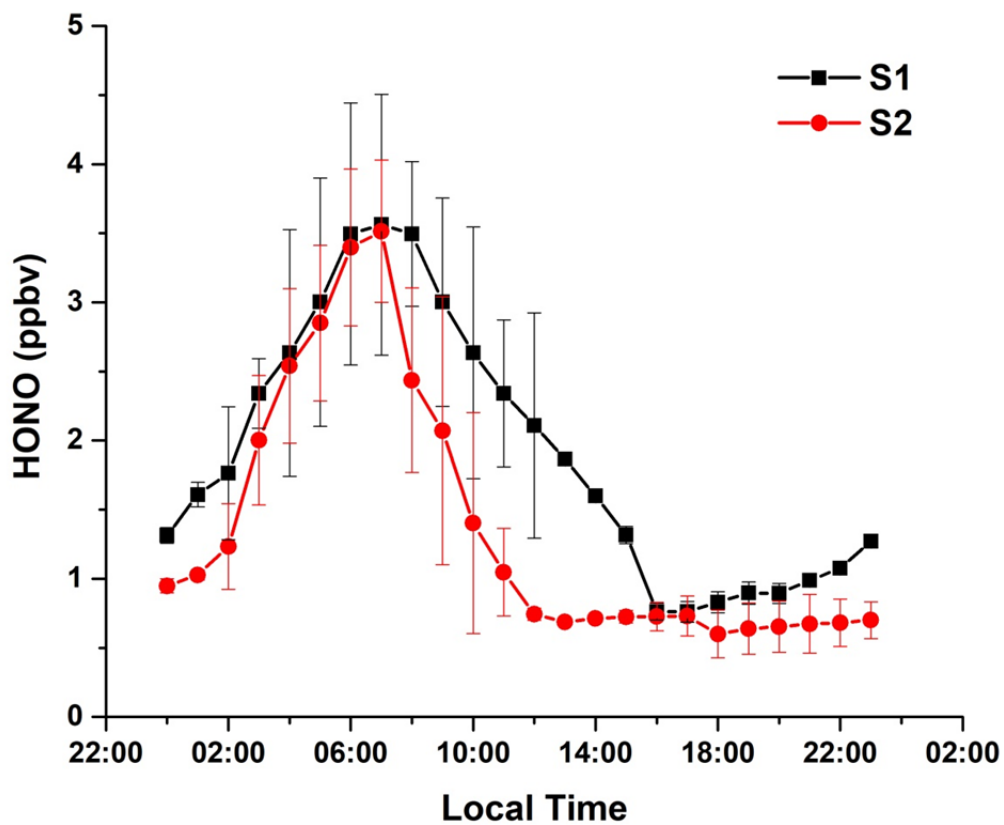


Figure S1. Average diurnal profiles of HONO at S1 and S2 site. Hourly standard deviations are also shown by error bars.