Text S1. PTR-MS calibration

The standard gases used in PTR-MS calibration include formaldehyde (MW 30.03), methanol (MW 32.04), acetonitrile (MW 41.05), acetaldehyde (MW 44.05), acetone (MW 58.08), dimethyl sulfide (MW 62.13), isoprene (MW 68.12), methacrolein (MW 70.09), 2-butanone (MW 72.11), benzene (MW 78.11), toluene (MW 92.14), 3-hexenol (MW 100.16), o-xylene (MW 106.16), chlorlbenzene (MW 112.01), 1,2,4-trimethylbenzene (MW 120.19), naphthalene (MW 128.18), and 1,2-dichlorobenzene (MW 147.00). The zero air and diluted standard gas (with 10 ppbv) are measured for several cycles, respectively. Based on the PTR-MS Viewer 3 software, the transmission features of the above masses are calculated, thereby a transmission curve can be made. Accordingly, the transmission values of the species which are not mentioned above can be estimated to calculate the concentrations (Taipale et al., 2008).

Text S2. PMF analysis results of OA from ACSM

Positive matrix factorization (PMF) analysis is performed for 2 factors in order to figure out the secondary component in OA, and the solution with Fpeak=0 is chosen as the optimal results. Finally, the total OA in Beijing was resolved into a hydrocarbon-like OA (HOA) factor and oxygenated OA (OOA) factor, and the relevant mass spectra, time series, diurnal variations, proportion, and correlations with external tracers of the OA factors are displayed in Fig. S1 and S2.

Text S3. Input VOC data for PMF model

According to the user's guide, PMF is a multivariate factor analysis tool that decomposes a matrix of speciated sample data into two matrices: factor contributions (G) and factor profiles (F). As a receptor model, the goal of this model is to solve the chemical mass balance (CMB) between measured species concentrations and source profiles, and the equation can be shown as follows:

$$x_{ij} = \sum_{k=1}^{p} g_{i,k} f_{k,i} + e_{i,j}$$
(S1)

Where matrix X represent the ambient data with i number of samples and j species. In brief, $g_{i,k}$ stands for the contribution of kth factor in the ith sample, while $f_{k,j}$ is the concentration of j_{th} compound in the k_{th} source, with the relevant residual e_{ij} .

PMF uses sample concentration and the corresponding uncertainty $(u_{i,j})$ provided by the user to weight individual data. The function of parameter Q mentioned in the manuscript is:

$$Q = \sum_{i=1}^{n} \sum_{j=1}^{m} \left[\frac{x_{ij} - \sum_{k=1}^{p} g_{ik} f_{kj}}{u_{ij}} \right]^2$$
(S2)

Q (robust) is more generally used to define the optimal solutions, which is calculated with the points whose uncertainty-scaled residual is not greater than 4. In addition, Q_{exp} is also an important parameter which equals to (number of non-weak data values in X) - (numbers of elements in G and F). Q/Q_{exp} graphs are generally used to examine if the database is well modeled (Sarkar et al., 2017; Zheng et al., 2018).

In this study, species with high signal-to-noise ratio (S/N) are put into the concentration data file (VOC species is listed in Table S1). Besides, an equation-based uncertainty file is prepared, in which MDL is defined as 3σ baseline noise and the error fractions (EF) are estimated according to the observed data. When the sample concentration is larger than the corresponding MDL, uncertainty ($u_{i,j}$) is calculated as:

$$u_{i,j} = \sqrt{(EF \times Concentration)^2 + (MDL)^2}$$
(S3)

As the concentration is less than or equal to the MDL, $u_{i,j}$ is calculated as:

$$u_{i,j} = \frac{5}{6} \times MDL \tag{S4}$$

Text S4. Calculation of PSCF and CWT

In this study, the domain area is divided into $i \times j$ grid cells, and the PSCF can be defined as:

$$PSCF_{ij} = \frac{n_{ij}}{m_{ij}} \tag{S5}$$

Where m_{ij} represents the number of trajectory endpoints that fell in the *i j*th cell, and n_{ij} represent the number of endpoints that exceeded the criterion (the 75th percentile of the targeted source concentration in this study) in the same cell. When n_{ij} is lower than 3 times of the average number of trajectory endpoint on each grid (n_{ave}), a weighted potential source contribution function (WPSCF; $W(n_{ij})$) should be multiplied to the PSCF value. $W(n_{ij})$ can be expressed as:

$$W(n_{ij}) = \begin{cases} 1, & n_{ij} > 3n_{ave} \\ 0.7, & 3n_{ave} > n_{ij} > 1.5n_{ave} \\ 0.42, & 1.5n_{ave} > n_{ij} > n_{ave} \\ 0.05, & n_{ave} > n_{ij} \end{cases}$$
(S6)

The CWT is defined as:

$$C_{ij} = \frac{\sum_{l=1}^{M} C_l \cdot \tau_{ijl}}{\sum_{l=1q}^{M} \tau_{ijl}}$$
(S7)

where C_{ij} represents the average weight concentrations in the *i j*th cell, and C_l is the targeted source concentration observed when trajectory *l* observed. Besides, τ_{ijl} is the number of trajectory endpoints in the *i j*th cell associated with the C_l . The weighting function (S6) was also used in the CWT analyses.

Text S5. Diurnal variation of meteorological parameters and inorganic pollutants

In Fig. S3, the lowest point of temperature occurs around 7:00 LT, and low-level temperature inversion is prone to emerge after sunrise. Therefore, wind speed is low and the air pressure reaches to the peak around 9:00 LT, which would lead to an accumulation of pollutants. The wind speed increases as the temperature rises in daytime. Combined with the characteristics of air pressure, the best atmospheric diffusion appears around 16:00 LT.

According to Fig. S4, the tracer of vehicle exhaust, NO_X, shows bimodal-like features. The 8:00 LT peak is evidently related to traffic rush hour, and the concentration rebounds after 18:00 LT. Because the freight trucks are not allowed to enter into the urban zone in daytime, their emissions in nighttime might be higher, contributing to the high level from 22:00 LT to 2:00 LT in next day. Unlike most studies, the concentration of SO₂ is highest at noon, which might own to the advection transport from the more intense source, similar to the cases in Shijiazhuang (Hebei, China) and Bhubaneswar (India) (Ge et al., 2018; Mallik et al., 2019). Fig. S5 shows the relationship among wind direction, wind speed, and SO₂ concentration, which could verify the above conjecture. The daily change character of CO is bimodal as well, but

the variation ratio is moderate, indicating the significance contribution from other combustion sources except for vehicle exhaust.

Text S6. Source identification

Fig. S6 (a and b) shows the variation tendency of the parameter Q/Q_{exp} ratio with the factor number increases. Accordingly, the ratio declines due to additional factors, and the low decrement appears when the factor number change from 5 to 7. Combined with the factor profile characteristics, 6 factors are defined, and the Q/Q_{exp} ratio is 1.19. Profiles of the resolved sources have clear distinction according to Fig. S7. Factor 1 has high contribution to the biogenic VOCs including isoprene (m/z 69) and terpenes (m/z 69)137). Besides, this factor contains certain amounts of isocyanic acid (m/z 44), as well as some OVOCs including MACR+MVK (m/z 71), phenol (m/z 95), cresols (m/z 109), and dimethylphenols (m/z 123) et al., which are secondary products from photochemical reactions (Roberts et al., 2014; Zhang et al., 2017; Coeur-Tourneur et al., 2006). Generally, biogenic emissions and atmospheric chemical process are closely related to temperature and sunlight, and the diurnal characteristics in Fig. S8 coincide with this rule. It should be pointed out that m/z 107 and 121 are mixed in this factor, one of the reason is that benzaldehyde has the similar molecular weight as C8 aromatics, and another reason is that the solvent evaporation is temperature dependent thereby C8 and C9 aromatics are difficult to completely isolated using the current linear model.

Factor 2 is identified as solvent evaporation source characterized by significant loading of benzene (m/z 79), toluene (m/z 93), styrene (m/z 105), C8 aromatics (m/z 107), C9 aromatics (m/z 121), and C10 aromatics (m/z 135). As many previous studies show, the aromatics are major VOCs emitted from paint applications (Yuan et al., 2010; Yang et al., 2018; Li et al., 2019), and this is consistent with the real situation in Xinxiang according to the Multi-resolution Emission Inventory for China (http://www.meicmodel.org, last access: 15 November, 2018). In Hongqi district, there are a lot of buildings under construction and many equipment manufacturing plants involving coating process, resulting in the usage of construction and industrial solvents. In the daily variation diagram, contribution peaks around 14:00 LT is attributable to

temperature elevation, while the peaks around 2:00 LT might own to the night construction and transport activities (such as loading wastes and unloading raw materials).

Acetonitrile (m/z 42) is typical tracer of biomass burning, and ethanol (m/z 47), and butyric acid (m/z 89) usually exist in combustion process (Yuan et al., 2010; Zhou et al., 2019). Combined with the diurnal variation in Fig. S8 the third factor is mostly influenced by residential heating by consuming solid fuels including biomass and coal. During night, with the increasing demand of heating, the contribution of this factor is rising, reaching to the high level after 22:00 LT. The peak appears at 8:00 LT might be influenced by both inversion layer and residential activities such as making fire in suburban.

Factor 4, 5 and 6 contains high proportion of inorganic tracers. Based on the MEIC model, SO₂, NOx, and CO in Xinxiang are majorly emitted from thermal power generation, motor vehicles, and industrial process, respectively. Besides, the benzene/toluene (B/T) ratio can also be referred when identifying source types. The B/T ratio of factor 4 is about 1.19, within the observed range in the investigations of power plants in China (Yan et al., 2016). And the daily variation diagram shows that the contribution of this source is relatively high in daytime, resulting from the emission regular and transport contribution (like SO₂). The B/T ratio of factor 5 is 0.84 in this study, which is not far from the empirical value (0.6) for vehicle exhaust (Barletta et al., 2005). Besides, bimodality in diurnal variation could further verify the vehicle exhaust source. The B/T ratio of the last factor is 2.05, reflecting the high usage of benzene, and the contribution is stable during day according to Fig. S8.



Figure S1. Summary of the mass spectra (a), time series (b), diurnal variations (c), and proportion of HOA and OOA (d) resolved from PMF model.



Figure S2. Scatter plots of HOA vs. CO (a), HOA vs NOx (b), OOA vs. nitrate (c), and OOA vs sulfate (d) of the measurements.



Figure S3. Diurnal variations of the meteorology parameters including temperature (a), RH (b), wind speed (c), and air pressure (d).



Figure S4. Diurnal variations of the inorganic gases including NO_X (a), SO_2 (b), CO (c), and O_3 (d).



Figure S5. Concentration Variation of SO₂ with wind speed (m s $^{-1}$) and direction in Xinxiang.



Figure S6. The value (a) and the relative change (b) of Q/Q_{exp} ratio with change in factor number.



Figure S7. Factor profiles of major emission sources resolved by the positive matrix factorization (PMF) model. The bright columns represent VOC profiles corresponding to the left Y-axis, and the dark columns represent inorganic tracer profiles corresponding to the right Y-axis.



Figure S8. Diurnal variations of the source emission strength resolved by PMF model.



Figure S9. The correlation curve of OH exposure (OH Δt) versus OA concentration.

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Mass	Formula	Species	Mass	Formula	Species
31	CH_2OH^+	Formaldehyde	Q 1	$C_{c}H_{a}^{+}$	Monoterpenes fragment
33	$\rm CH_4OH^+$	Methanol	01	C6119	PAH fragment
35	H_2SH^+	H_2S	02	$C_5H_6OH^+$	Methyl furan
42	$C_2H_3NH^+$	Acetonitrile	05	$C_6H_{11}{}^+$	Methylcyclopentane
	C U 0+	Fragmentation from acetic	05	$C_4H_4O_2H^+$	Furanone
12	C2H3U	acid	85	$C_5H_8OH^+$	Cyclopentanone
43	с II +	Fragmentation from		C.II.O.II ⁺	Butanedione;
	C3H7	hydrocarbons and propanol	$C_{4}H_{6}O_{2}H^{+}$ Methacr 87 MI $C_{5}H_{10}OH^{+}$ P		Methacrylic acid
44	CHNOH^+	Isocyanic acid	87	MBO;	
45	$C_2H_4OH^+$	Acetaldehyde		C5H10OH	Pentanones + Pentanal
	$\mathrm{NO_{2}^{+}}$	PAN fragmentation;		$C_{3}H_{4}O_{3}H^{+}$	Pyruvic acid
46		Methylnitrate;	89	$C_4H_8O_2H^+$	Butyric acid
		Other nitrogen-containing	93	$C_7H_8H^+$	Toluene
		compounds	95	$C_6H_6OH^+$	Phenol
	$\mathrm{CH}_{2}\mathrm{O}_{2}\mathrm{H}^{+}$	Formic acid		$C_5H_4O_2H^+$	Furfural
47	$C_2H_6OH^+$	Ethanol	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Methylcyclohexane	
54	C ₃ H ₃ NH ⁺	Acrylonitrile		$C_4H_2O_3H^+$	Maleic anhydride
59	$C_{3}H_{6}OH^{+}$	Acetone + Propanal		$C_5H_6O_2H^+$	Furfuryl alcohol
	C ₂ H ₅ NOH ⁺	Acetamide	99	$C_6H_{10}OH^+$	Hexenals;
60	C ₃ H ₉ NH ⁺	Trimethylamine			Cyclohexanone
		Acetic acid; Glycolaldehyde;	101	$C_6H_{12}OH^+$	Hexanal
61	$C_2H_4O_2H^+$	Fragmentation of ethyl acetate	103	$C_{5}H_{10}O_{2}H^{+}$	Hexanal Pentanoic acid
63	$C_2H_6SH^+$	Dimethyl sulfide	104	C7H5NH ⁺	Benzonitrile
	$C_4H_4OH^+$	Furan	105	$C_8H_8H^+$	Styrene
		Isoprene and Fragmentation		C7H6OH ⁺	Benzaldehyde
69	$C_5H_8H^+$	of MBO; Fragmentation of	107	$C_8H_{10}H^+$	C8 aromatics
		cyclohexenes	109	$C_7H_8OH^+$	Cresols
70	C4H7NH ⁺	Butane nitrile; pyrroline			Benzenediols;
		Methyl vinyl ketone +	111	$C_6H_6O_2H^+$	Methylfurfural
	$C_4H_6OH^+$	Methacrolein;		$C_8H_{14}H^+$	C2 cyclohexanes
71		Crotonaldehyde; ISOPOOH	117		OVOCs
		Fragmentation from	121	$C_9H_{12}H^+$	C9 aromatics
	$C_{5}H_{11}^{+}$	hydrocarbons	123	$C_8H_{10}OH^+$	C2 phenols
		Methyl ethyl ketone +			Guaiacol;
73	$C_4H_8OH^+$	butanals	125	$C_7H_8O_2H^+$	Methyl benzenediols
	$C_{3}H_{4}O_{2}H^{+}$	Methylglyoxal; acrylic acid	129	$C_{10}H_8H^+$	Naphthalene
		Hydroxyacetone;		стопата туарпіпателе	
75	$C_3H_6O_2H^+$	Propanoic acid	135	$C_{10}H_{14}H^+$	C10 aromatics
77	$C_2H_4O_3H^+$	PAN; Peracetic acid	137	$C_{10}H_{16}H^+$	Monoterpenes
79	$C_6H_6H^+$	Benzene		-	1

Table S1. Identified Compounds from Mass List of PTR-MS

Sequence	Timo	Sequence	Time	Sequence	Time	
Number	Time	Number	Time	Number		
1	2018/11/11 10:00	10	2018/11/19 12:30	19	2018/11/30 18:00	
2	2018/11/11 15:30	11	2018/11/23 14:00	20	2018/12/1 9:00	
3	2018/11/13 11:00	12	2018/11/24 9:30	21	2018/12/1 12:00	
4	2018/11/14 11:00	13	2018/11/25 10:30	22	2018/12/4 12:00	
5	2018/11/14 16:30	14	2018/11/26 13:00	23	2018/12/9 8:25	
6	2018/11/15 13:00	15	2018/11/28 12:30	24	2018/12/10 8:25	
7	2018/11/16 11:00	16	2018/11/29 9:30	25	2018/12/11 8:25	
8	2018/11/18 13:30	17	2018/11/29 17:30	26	2018/12/13 8:21	
9	2018/11/18 15:00	18	2018/11/30 9:30	27	2018/12/14 8:29	

Table S2. The list of beginning time of canister sampling.

Table S3. SOA yields (%) of various VOCs under high-NOx condition.

Species	Yield	Species	Yield
Alkanes		Others	
Cyclopentane	4.6 ^a	Phenol	26 ^d
C6 Cycloalkanes	4.6 ^a	Cresols	7 ^b
Heptane	1^a	Acetone	0.78°
Methyl-cyclohexane	14 ^a	Methyl ethyl ketone	0.78°
Octane	4.8 ^a	Valeraldehyde	9.3°
C8 Branched alkanes	4.8 ^a	Hexanaldehyde	9.3°
Undecane	31 ^a	Pentanol	31 ^d
Dodecane	17 ^a	Hexanol	31 ^d
Aromatics		Nonanol	31 ^d
Benzene	27 ^b	Isoprene	0.79°
Toluene	108 ^b	Terpenes	0.24 ^d
Styrene	4.5°	Chlorobenzene	5.4°
Xylene	7.6 ^b	1,3-Dichloro-benzene	1.6°
Ethylbenzene	5.4°	1,4-Dichloro-benzene	1.6 ^c
n/iso-Propylbenzene	1.6°	Other halogenated hydrocarbons	3.5°
m/p/o-Ethyltoluene	5.6°		
TMB	3.2 ^b		
m/p-Diethylbenzene	6.3°		

^a Yields are obtained from (Lim and Ziemann, 2009).

^b Yields are recalculated from two-product model based on (Ng et al., 2007) and (Henry et al., 2008).

° Yields are referred from the nationally averaged SOA yields (Wu and Xie, 2018).

^d Yields are replaced with the fractional aerosol coefficient (FAC) value (Grosjean and Seinfeld, 1989).

^e Yields are corrected by vapor loss biases (R_{wall}). According to (Zhang et al., 2014), the R_{wall} of toluene is around 10 in the current condition, and the R_{wall} of dodecane, benzene and xylene are 1.16, 1.25, and 1.2, respectively. The other species in ^a and ^b are corrected With a R_{wall} of 1.16, as a recent study performed (Gao et al., 2019).

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