atmosphere

MDPI

Supplementary material

Sources and Seasonal Variance of Ambient Volatile Organic Compounds in the Typical Industrial City of Changzhi, Northern China

Xiangyu Zhang [1], Yulong Yan [1,2,*], Xiaolin Duan [1], Jianwei Chai [1], Rumei Li [1], Yang Xu [1], Zhiyong Li [3] and Lin Peng [1,2]

[1] Key Laboratory of Resources and Environmental Systems Optimization, Ministry of Education, College of Environmental Science and Engineering, North China Electric Power University, Beijing 102206, China; 18810115031@163.com (X.Z.); duanxl_huanjing@163.com (X.D.); cjw18810787017@163.com (J.C.); lirumei027@163.com (R.L.); fury_fatal@hotmail.com (Y.X.); penglin6611@163.com (L.P.)

[2] Institute of Transport Energy and Environment, Beijing Jiaotong University, Beijing 100091, China

[3] College of Environmental Science and Engineering, North China Electric Power University, Baoding 071003, China; lzy800723@126.com

* Correspondence: yanyulong@bjtu.edu.cn; Tel.: +86-106-177-2891

Table S1. Basic statistics of VOCs used in PCA analysis (μg·m^{-3}).

	Avg	Max	Min
Ethylene	2.554	8.479	0.405
Ethyne	2.695	7.252	0.750
Ethane	4.388	8.652	1.976
Propylene	0.337	0.648	0.085
Propane	2.936	6.579	1.081
Isobutane	0.779	2.062	0.273
n-Butene	0.308	0.728	0.044
n-Butane	1.926	5.307	0.556
Isopentane	3.770	13.228	0.605
n-pentane	0.575	1.855	0.079
Isoprene	0.199	0.807	0.011
2,2-Dimethylbutane	0.028	0.063	0.010
2,3-Dimethylbutane	0.048	0.130	0.009
2-Methylpentane	0.158	0.380	0.034
n-Hexane	0.181	0.472	0.040
Benzene	1.403	3.632	0.357
2-Methylhexane	0.048	0.105	0.011
3-Methylhexane	0.079	0.785	0.014
Toluene	0.022	0.050	0.006
Ethylbenzene	0.248	0.765	0.068
m- and p-xylene	0.569	2.008	0.082
Isopropylbenzene	0.011	0.033	0.003
n-Propylbenzene	0.014	0.033	0.000
1,2,4-Trimethylbenzene	0.033	0.081	0.004

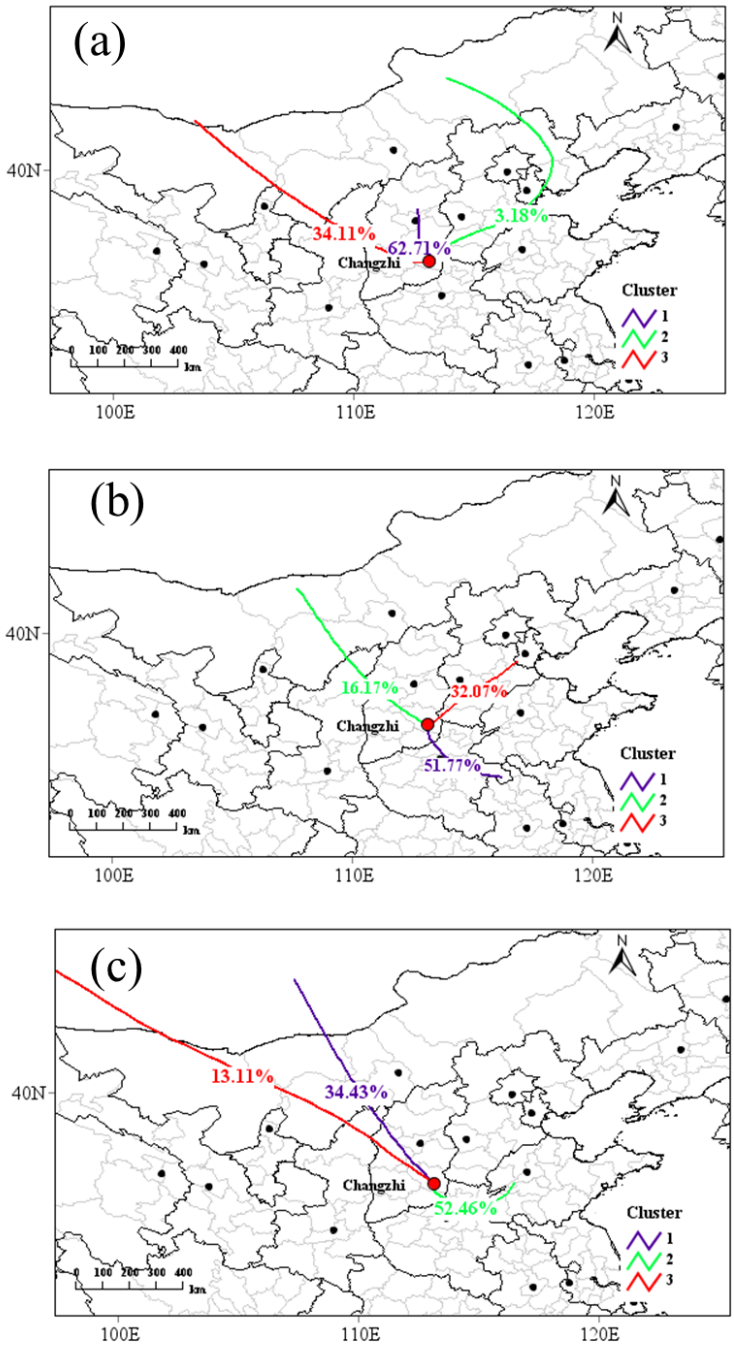


Figure S1. Backward trajectory of air in Changzhi during spring (a), summer(b) and autumn (c).