

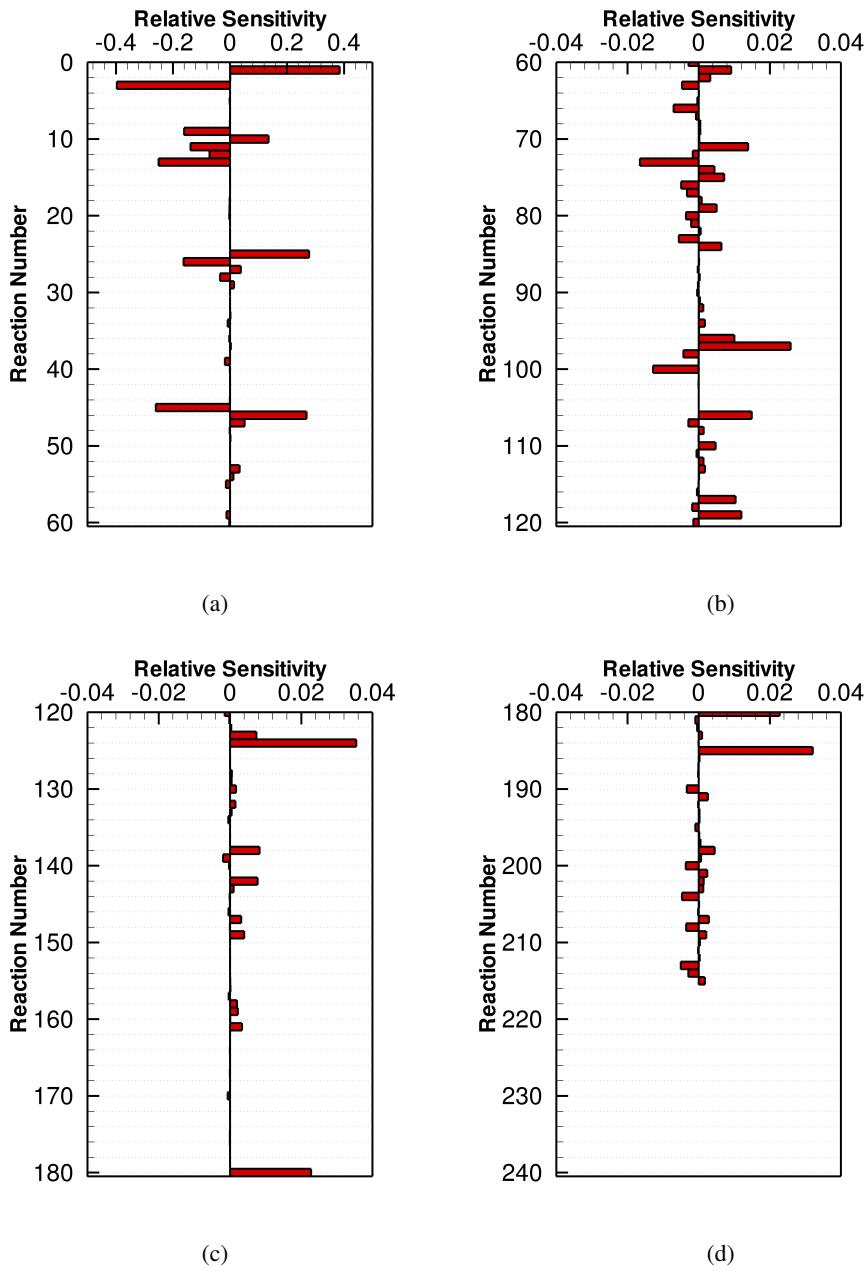
# Study of Different Carbon Bond 6 (CB6) Mechanisms by Using a Concentration Sensitivity Analysis: Supplement

Le Cao, Simeng Li, and Luhang Sun

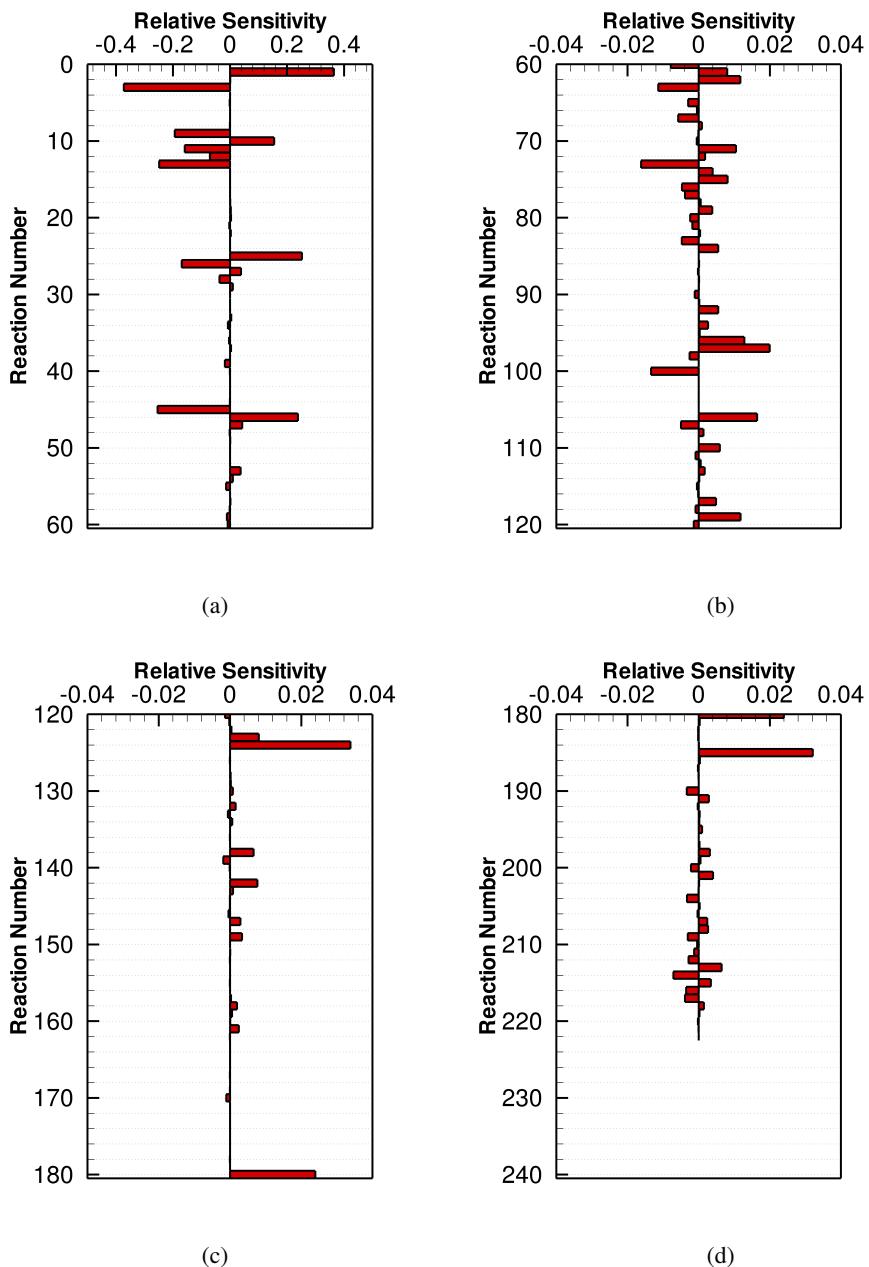
Key Laboratory for Aerosol-Cloud-Precipitation of China Meteorological Administration, Nanjing University of Information Science and Technology, Nanjing, China

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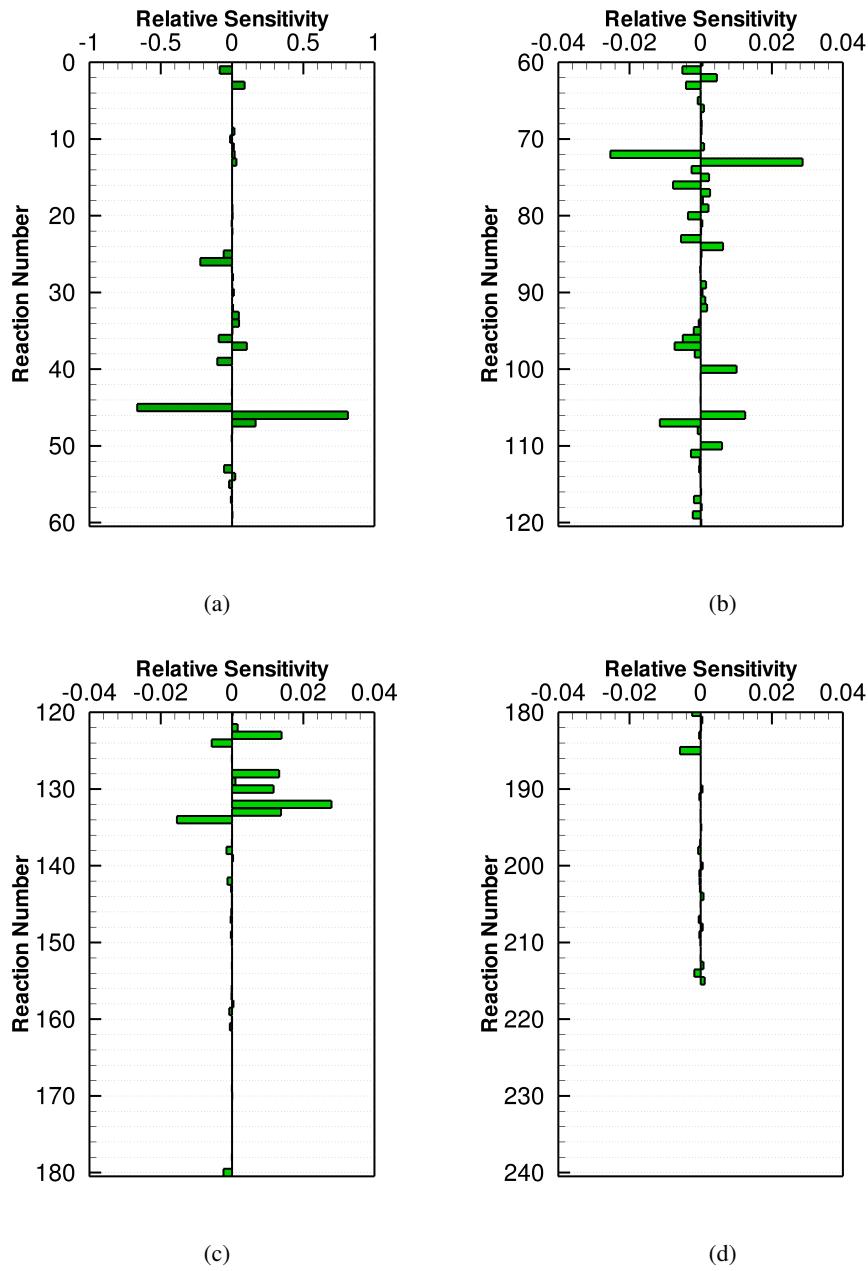
*Correspondence to:* L. Cao  
(le.cao@nuist.edu.cn)



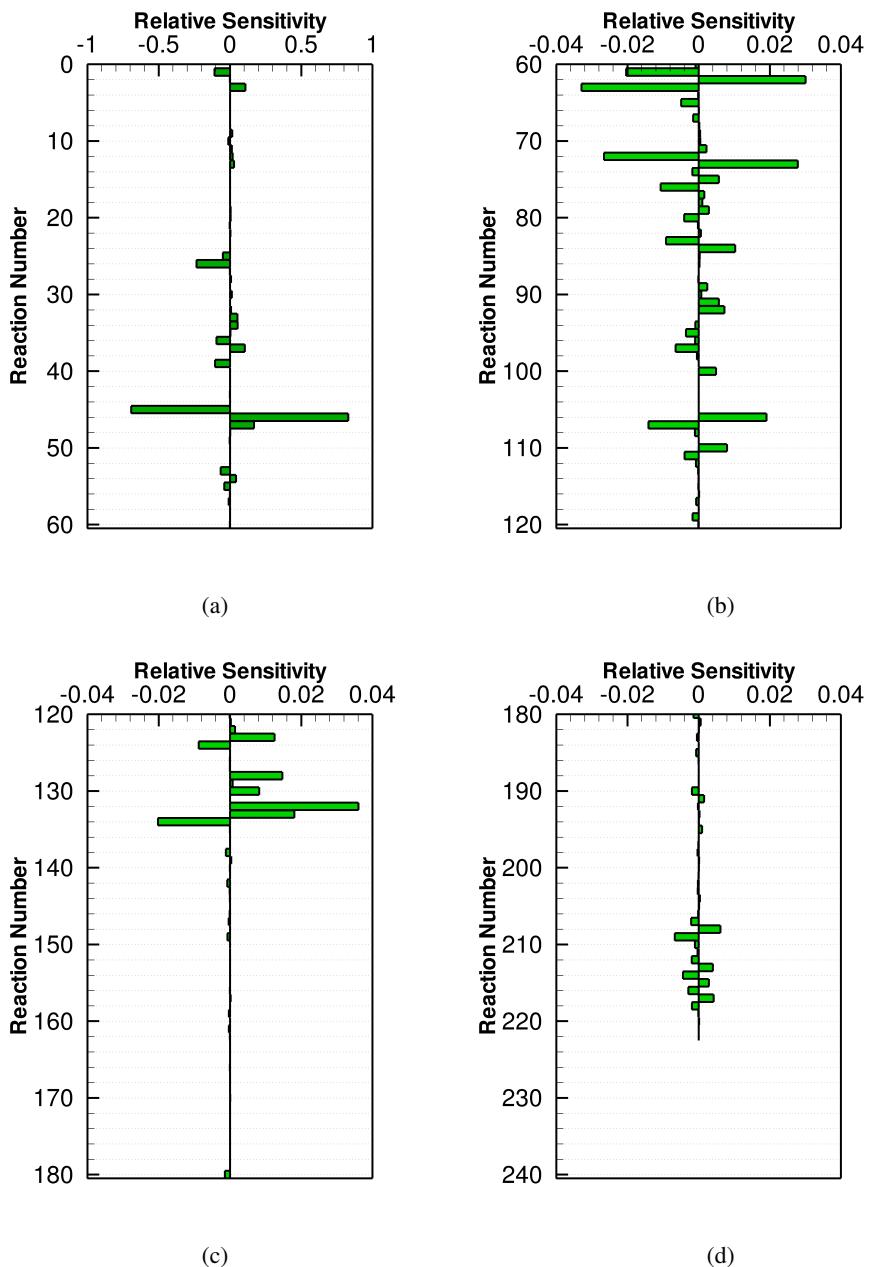
**Fig. S1.** Averaged ozone sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is excluded.



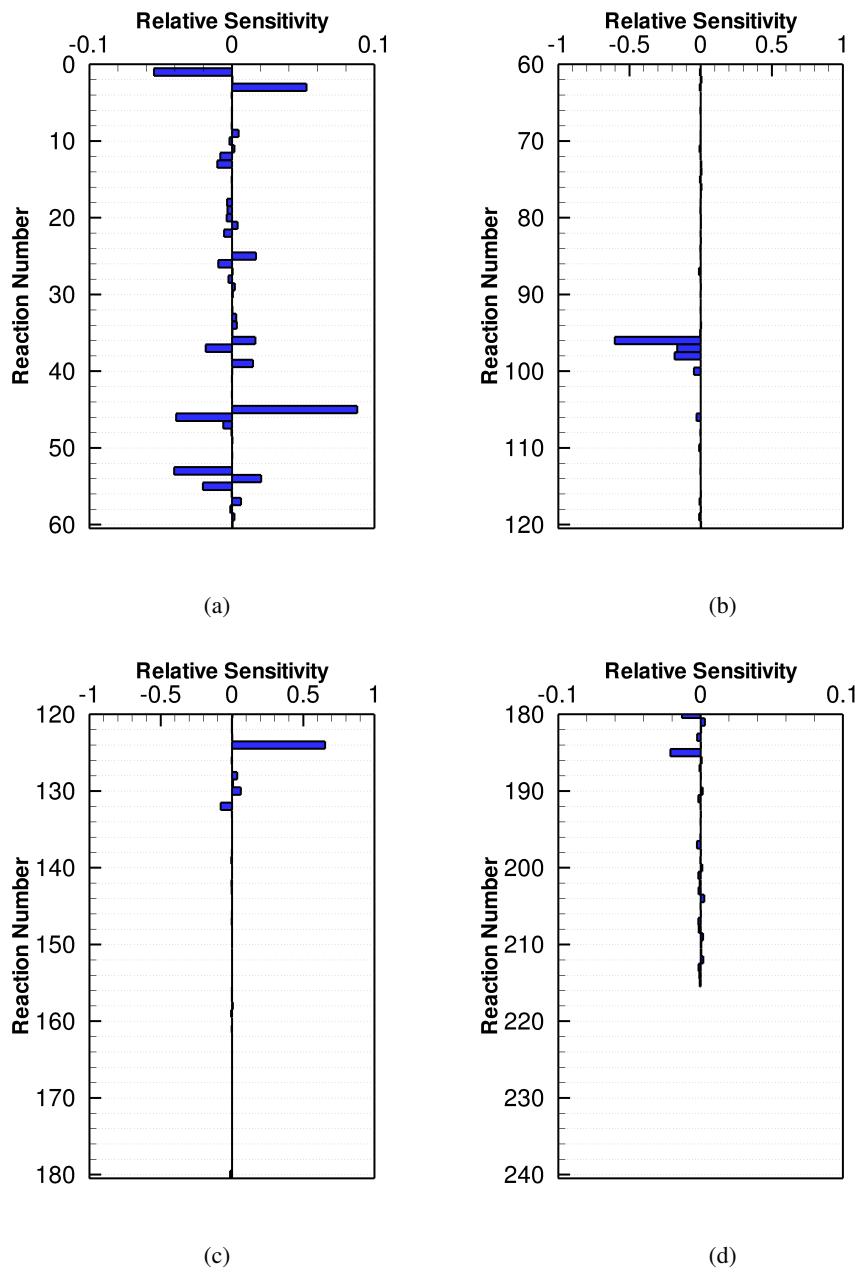
**Fig. S2.** Averaged ozone sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is excluded.



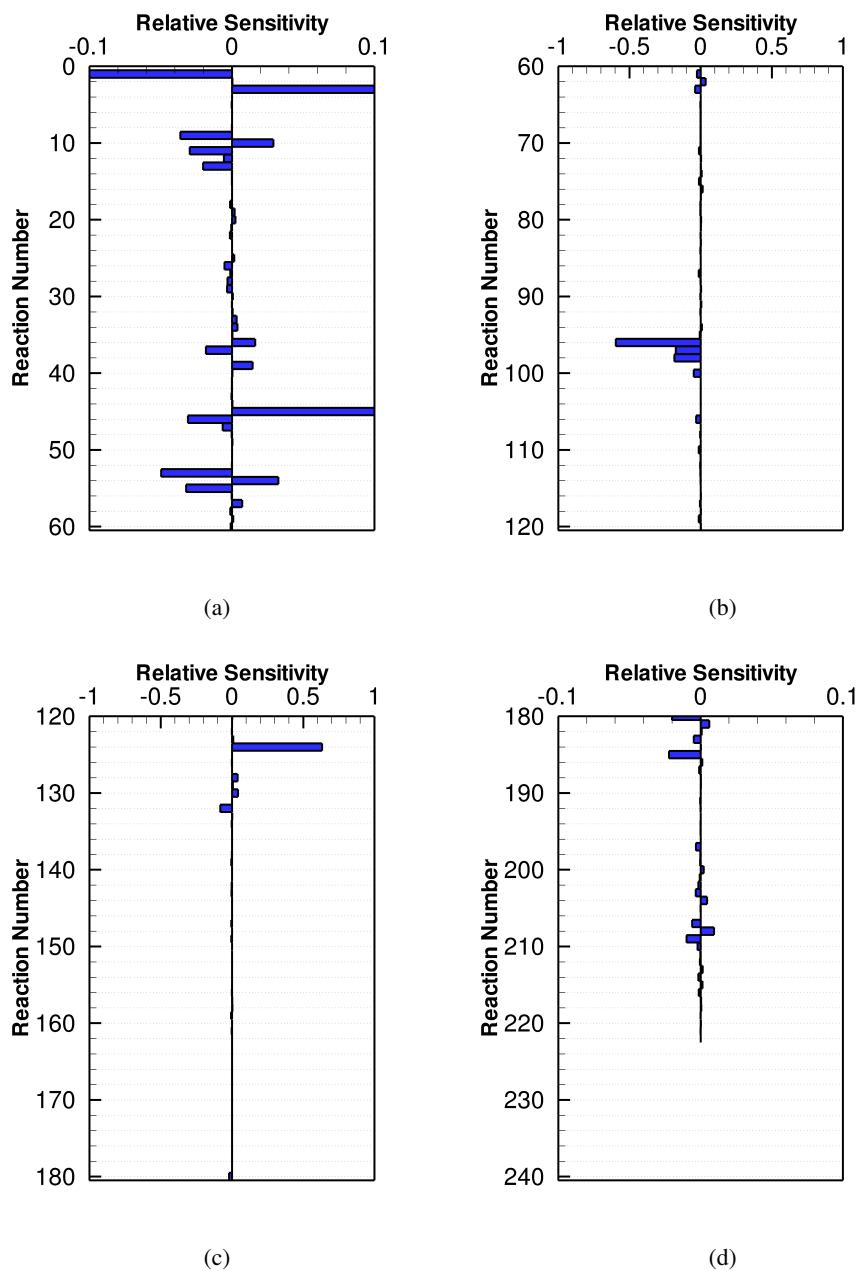
**Fig. S3.** Averaged  $\text{NO}_x$  sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is excluded.



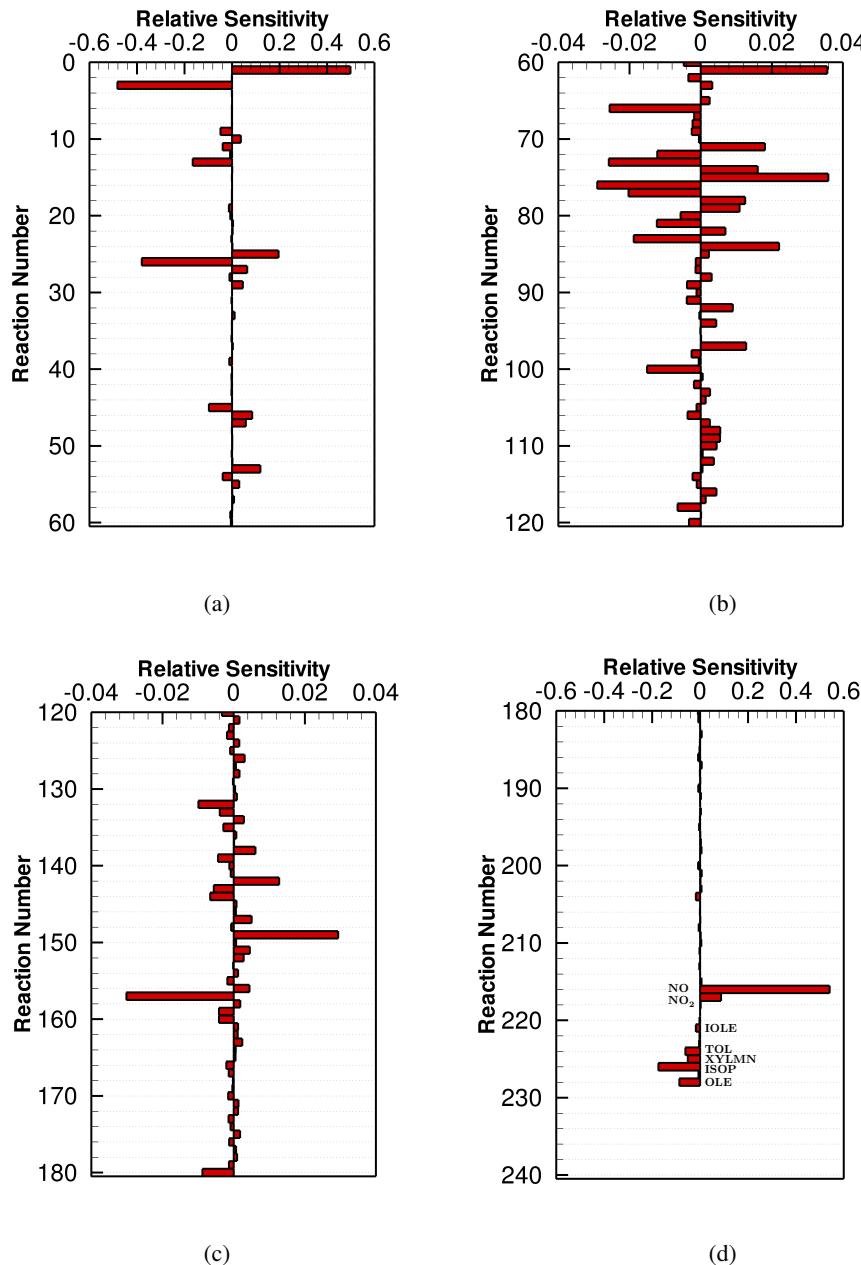
**Fig. S4.** Averaged  $\text{NO}_x$  sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is excluded.



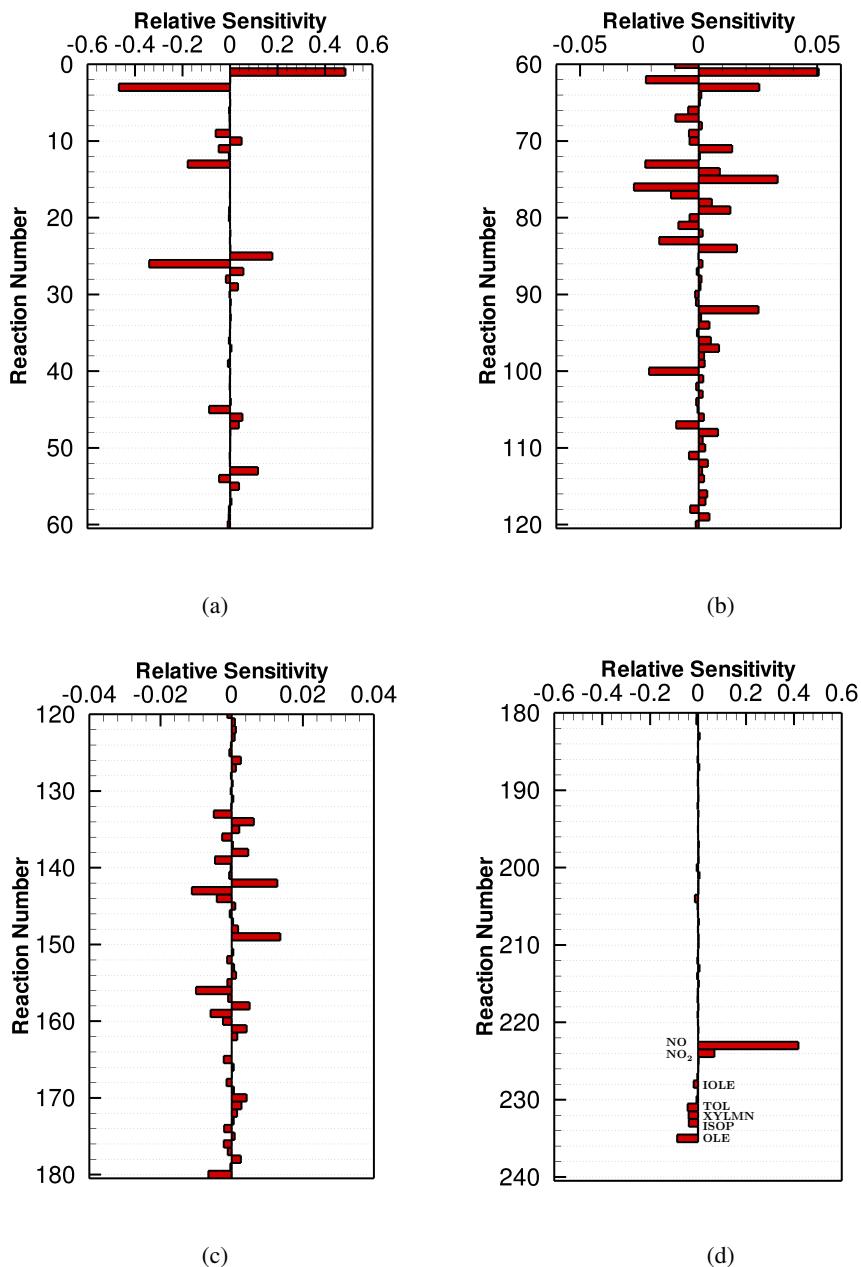
**Fig. S5.** Averaged HCHO sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is excluded.



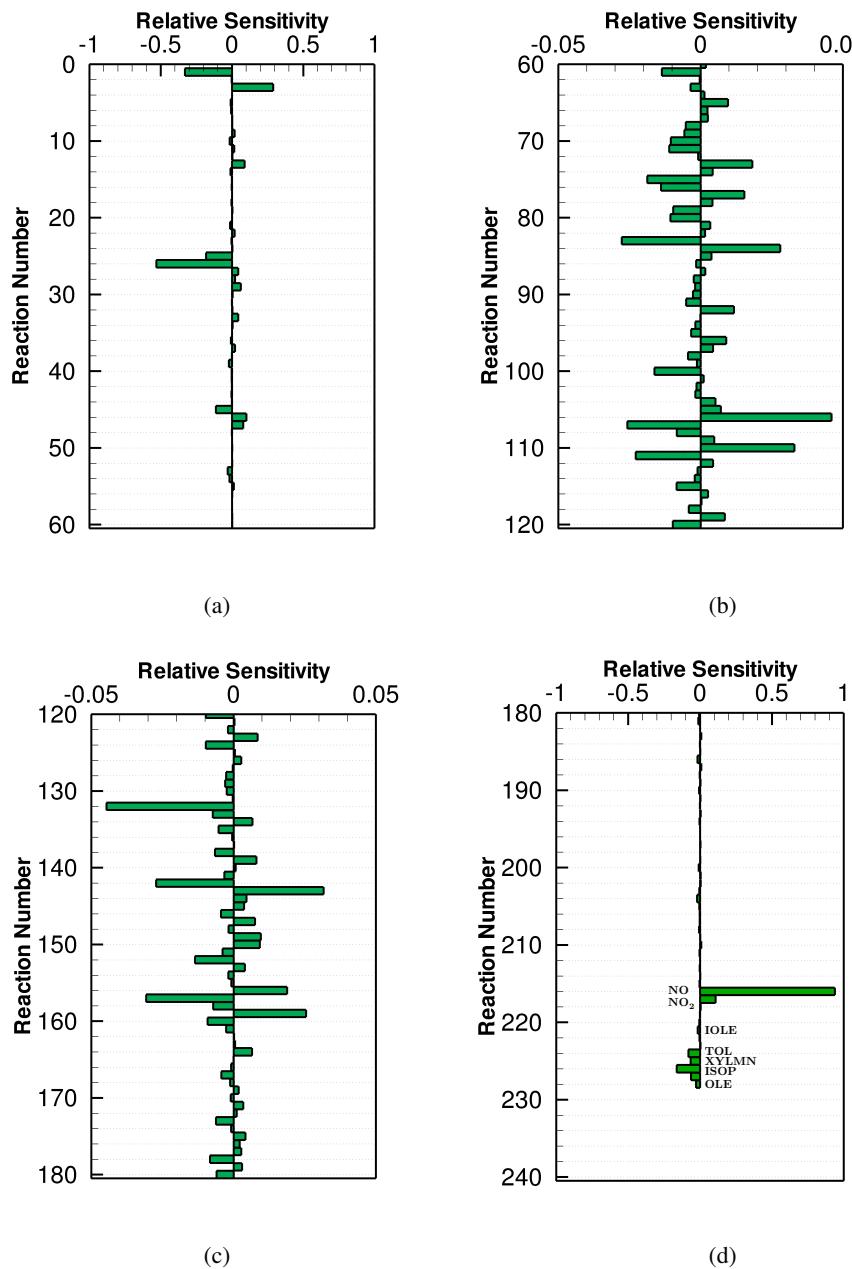
**Fig. S6.** Averaged HCHO sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is excluded.



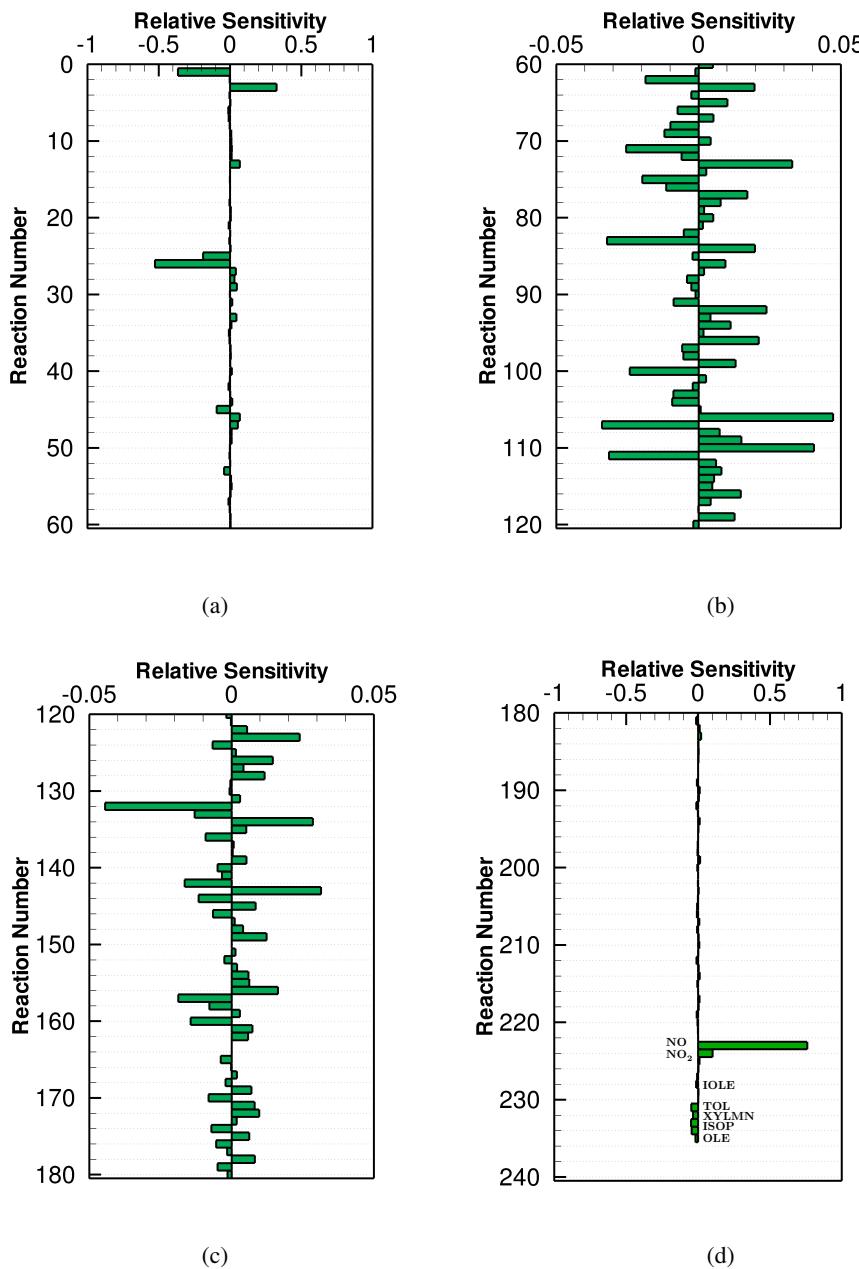
**Fig. S7.** Averaged ozone sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is included.



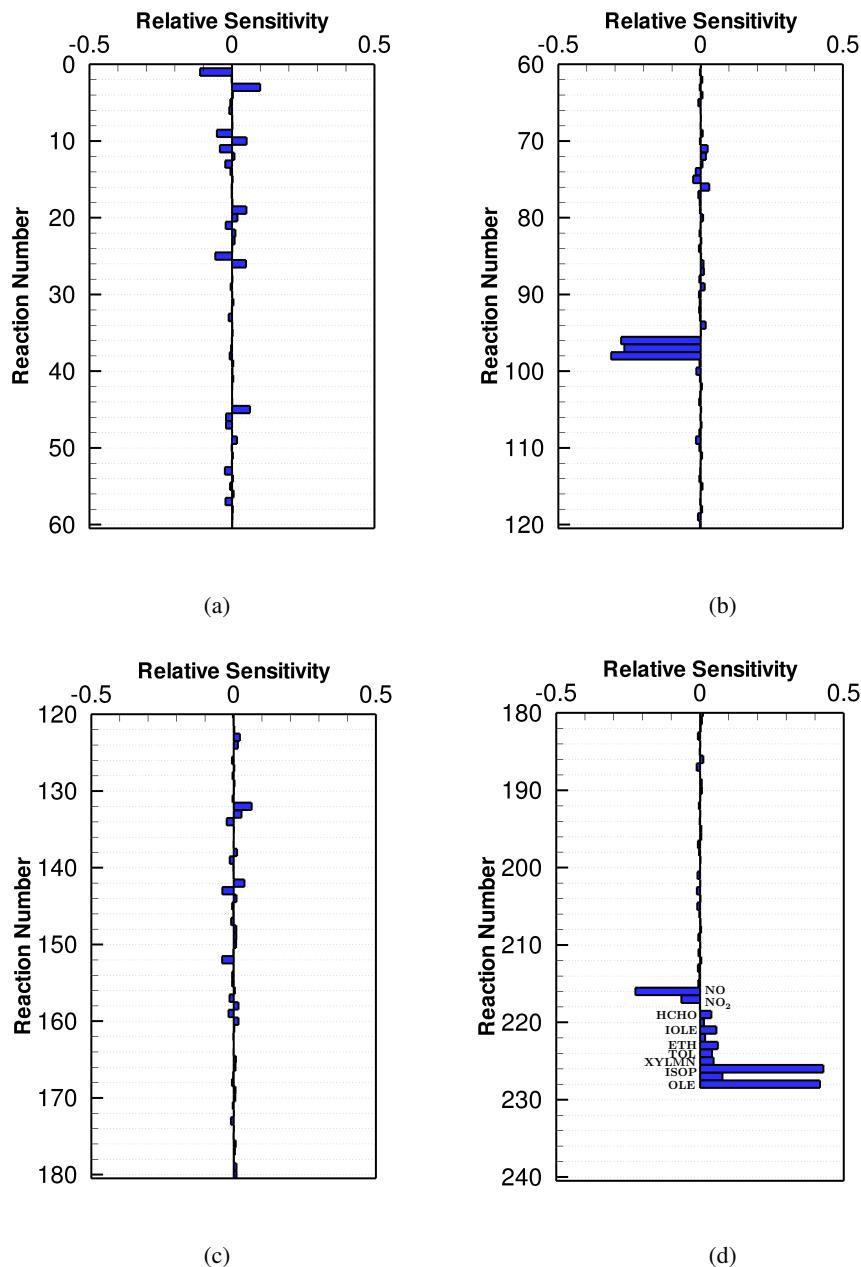
**Fig. S8.** Averaged ozone sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is included.



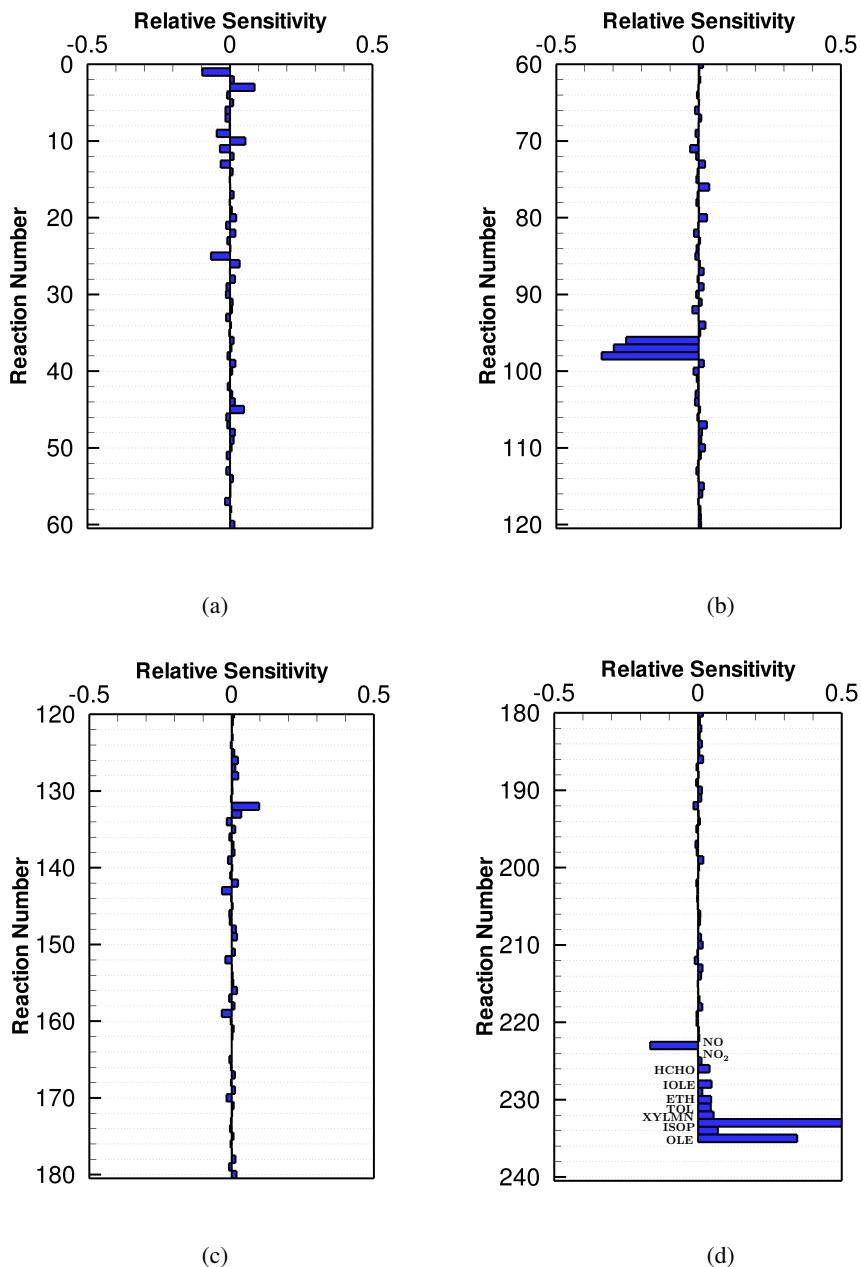
**Fig. S9.** Averaged NO<sub>x</sub> sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is included.



**Fig. S10.** Averaged  $\text{NO}_x$  sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is included.



**Fig. S11.** Averaged HCHO sensitivity to the CB6r2 mechanism over the 7-th day, when the surface emission is included.



**Fig. S12.** Averaged HCHO sensitivity to the CB6r1 mechanism over the 7-th day, when the surface emission is included.