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Interactive comment on "Development of a high temporal-spatial resolution vehicle emission inventory based on NRT traffic data and its impact on air pollution in Beijing – Part 1: Development and evaluation of vehicle emission inventory" *by* B. Y. Jing et al.

Anonymous Referee #3

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As a typical metropolis, the vehicle emission factor and emission inventory in Beijing have been established by different teams and through various methods. The paper presented a high-temporal-spatial resolution vehicle emission inventory through NKT traffic data combined with COPERT model, and also provided vehicle emission of pollutants in Beijing, etc. For the whole study, Authors do a lot of innovative work to gain good result, which provides a reference to Beijing or other cities in improving air quality.

In view of the discussion to the paper, need further improvement towards the paper. 1 Title According to the title, the whole study concludes two parts, and the paper is part 1. The title of the paper cannot summarize well the whole content of the paper. Because the paper only built a high temporal-spatial resolution emission inventory, not more content describe the impact on air quality of Beijing. 2 Abstract The abstract still need huge improvement to be concise. Authors use more words to describe study aim, etc. Abstract should summarize results and conclusions. 3 Results and Discussions "3.25 comparison between fuel consumption and fuel sales", the section has not too much relation with the whole the paper. 4 Tables and Figures "Table 2" and "Table 3" can be integrated into a table. Table 2 shows weekday variation, whereas Table 3 presents weekend variation. They are put into a table to provide a comparison. Similarly, "Table 4" and "Table 5" can be combined a table. 6 Technical errors The same as "8 to 9 am", "from 5 to 6 p. m" should be "5 to 6 p. m".

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