This paper presents source areas of measured CO and other gases, using the tag tracer experiments of GEOS-Chem. The CO emitted from the boreal wildfires are contributed to the episodic CO increase over the Arctic sites, mainly coming from North America and Asia. The topic of this study is interesting and the results of FTIR data is valuable, while there are no scientific new results in this manuscript (episodic increases due to wildfires are well known). In addition, this paper only shows the list of results and there is no sufficient discussion. Thus, I recommended major revision before publication.

Major comments: 1. There are many figures which are not necessary needs. In addition, some figures can be summarized. For example, Figs. 11-13 are summarized to the percentage contributions to each site.
2. The authors will improve the papers to include the descriptions of scientific new results and discussion related to these results.

Minor comments: I.I. 470-475 The injection level and the transport pathway of CO are probably simulated in GEOS-Chem and the details will be analyzed.

Typos. I. 545: 0.89 -> 0.86 maximum of 0.84 is only for Rikubetsu in Fig. 16