## Responses to Reviewer#1

This well-written study shows that the seeding agent in hygroscopic flares can be detected in the cloud droplets, and related to the indicated changes in cloud microstructure.

The indicated effect of the flares in the limited sample is mainly the tail effect of the largest particles initiating large cloud drops and drizzle. These results do not support the competition effect, although much more data is required for conclusive evidence. I encourage the authors to add such a statement in their conclusions.

**Response**: We thank the reviewer for the constructive and helpful suggestions.

Now a statement is included to emphasis the importance of the tail effect, indicating the more data are required for conclusive evidence. In addition, we also observed the role of strong updrafts in the activation of small sized CCNs in the isolated convective clouds. Now these discussions are included in the revised manuscript. The complexity in the cloud seeding experiment is stated.

There are several minor comments:

Line 31: Change "inclusive" to "elusive".

Response: OK, it is changed now.

Figure 6b and c; Fig 7b and c: It is impossible to separate the SCl and NSCl cloud segments. If the yellow points are considered NSCl, please state so explicitly and justify it.

**Response**: As suggested the images are now changed for clarity.