

Proposal ID: 07\_0136  
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Bonn, 11 May 2020

Dear Carsten,

The attached *Cycle7\_GR\_OT\_07\_0136\_'SourceName\_'\_LineName'.class* (where 'SourceName' is either G242P92, G243P78, G235P05, G239P68, WB89 or G235P22, and 'LineName' is either CII or OI) and *Convert-to-Tmb.class* files contain the processing steps to create the level 3b data products (.great files), incl.

- removal of a spectral baseline (order depending on the particular case)
- calibration to  $T_{mb}$  scale
- Averaged spectra per source and line ( $1/\sigma_{rms}^2$  weighting of individual spectra,  $\sigma_{rms}$  derived from the baseline noise)

Note that the HFA pixels showed strong ripples. Therefore, the data reduction included the removing of baselines of orders up to four. In some case, baselines or order greater than one were also removed to the CII spectra.

Note as well that the pixel 5 of the HFA array was under pumped in all cases. It was included in the data release, but its use for data analysis is not recommended.

We recommend the use of a recent version of the CLASS software (Jul 17 or later) which is part of the GILDAS software package (<http://www.iram.fr/IRAMFR/GILDAS>).

If you have any questions please do not hesitate to contact me.

Best regards,

Rebeca Aladro  
GREAT liaison