

Supplementary Figures

This document provides the gaussian fits obtained for the observed species in the two sources included in the article *Chemical study of two starless cores in the B213/L1495 filament*, written by L. Moral-Almansa et al. and accepted for publication in the journal *Astronomy & Astrophysics* in 2025.

1. Gaussian fits for B213-C2 and B213-C16

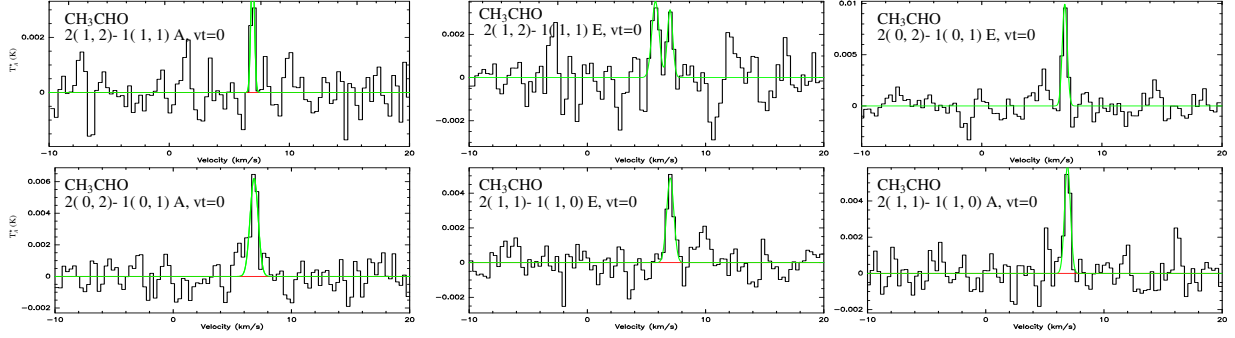


Fig. 1. Observed lines of CH_3CHO with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

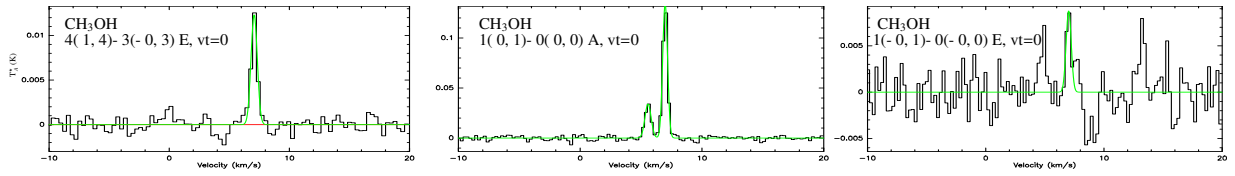


Fig. 2. Observed lines of CH_3OH with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

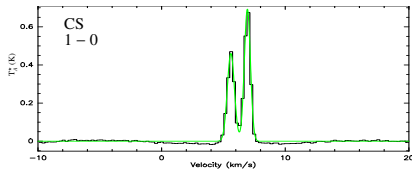


Fig. 3. Observed lines of CS with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

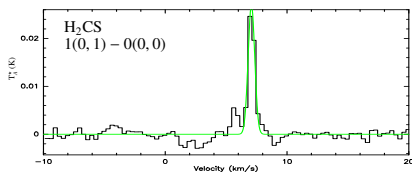


Fig. 4. Observed lines of H_2CS with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

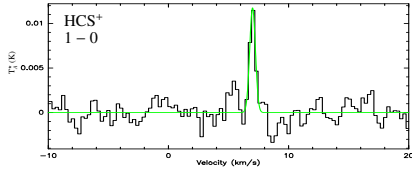


Fig. 5. Observed lines of HCS^+ with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

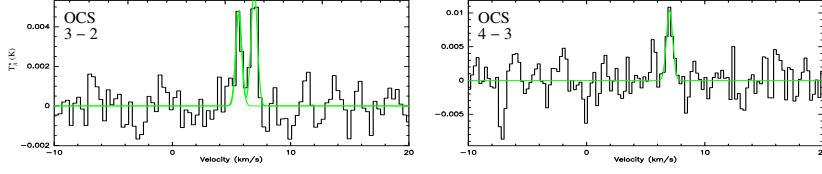


Fig. 6. Observed lines of OCS with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

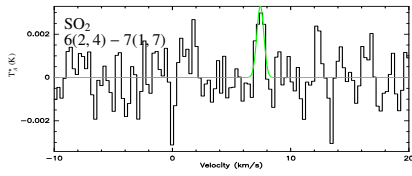


Fig. 7. Observed lines of SO_2 with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

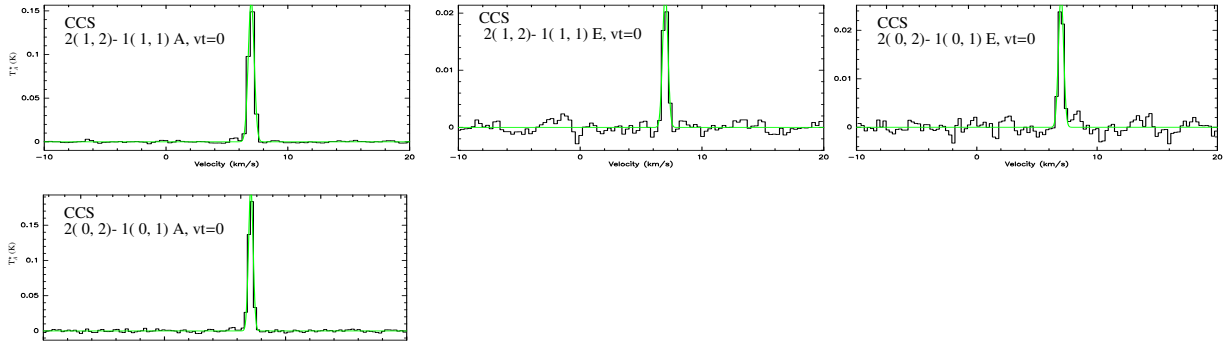


Fig. 8. Observed lines of CCS with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

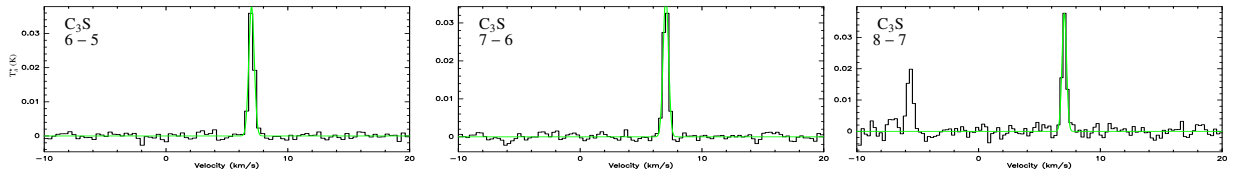


Fig. 9. Observed lines of C_3S with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

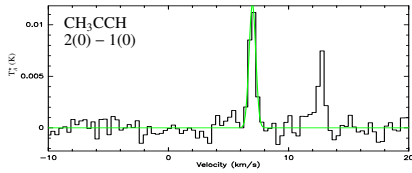


Fig. 10. Observed lines of CH_3CCH with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

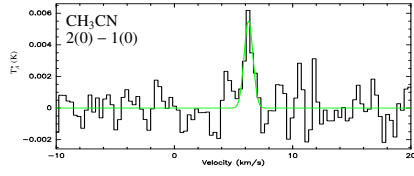


Fig. 11. Observed lines of CH_3CN with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

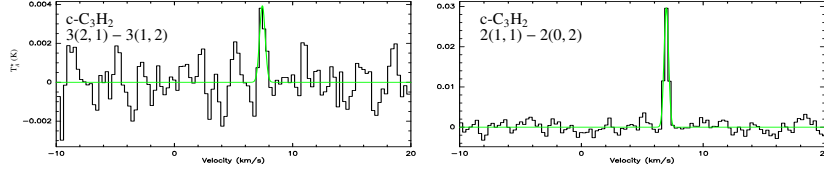


Fig. 12. Observed lines of $\text{c-C}_3\text{H}_2$ with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

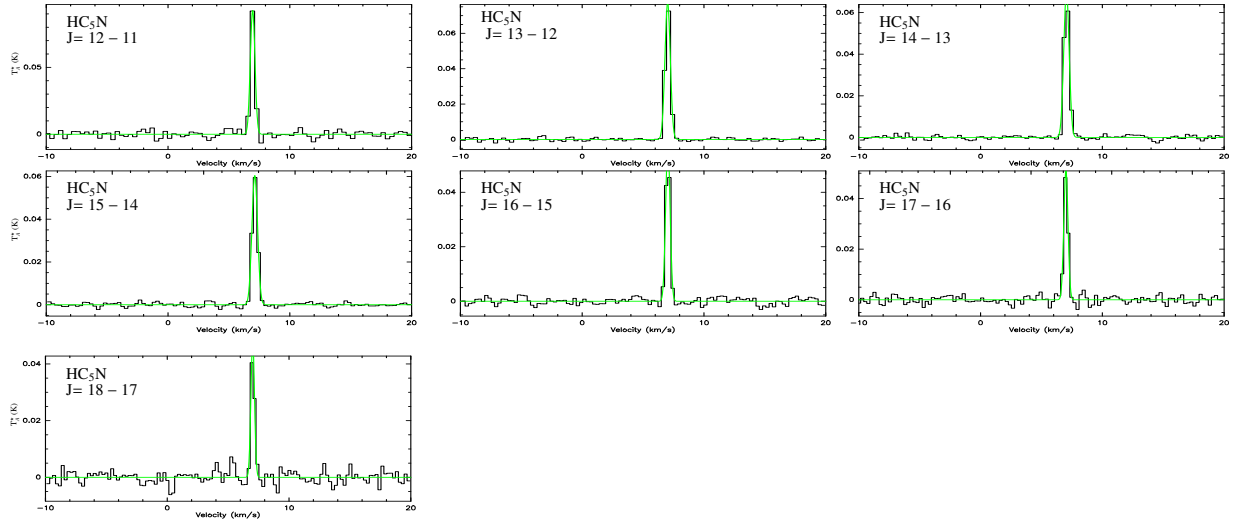


Fig. 13. Observed lines of HC_5N with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

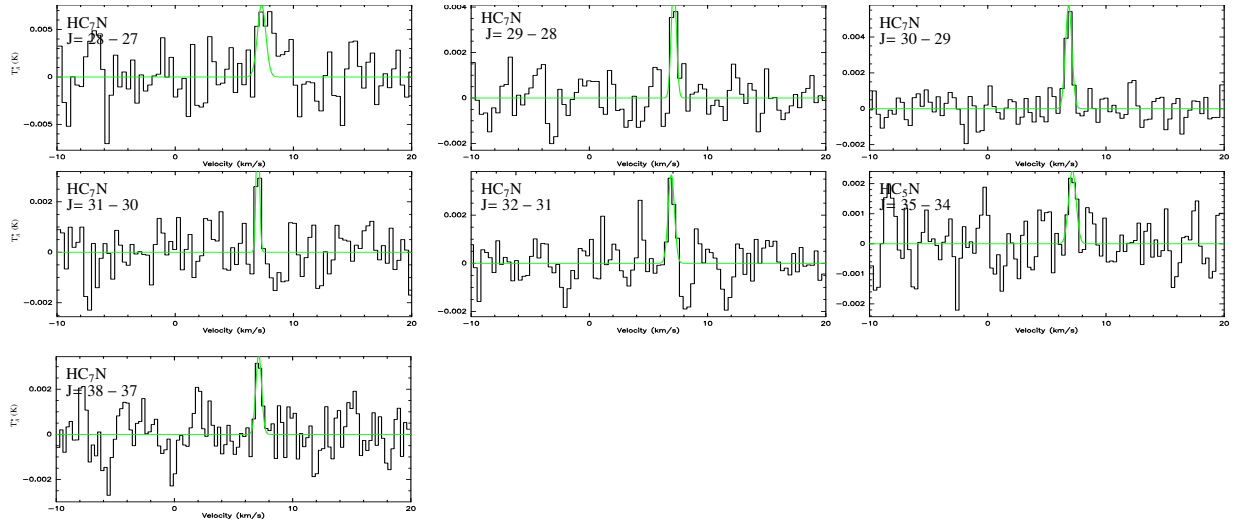


Fig. 14. Observed lines of HC_7N with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

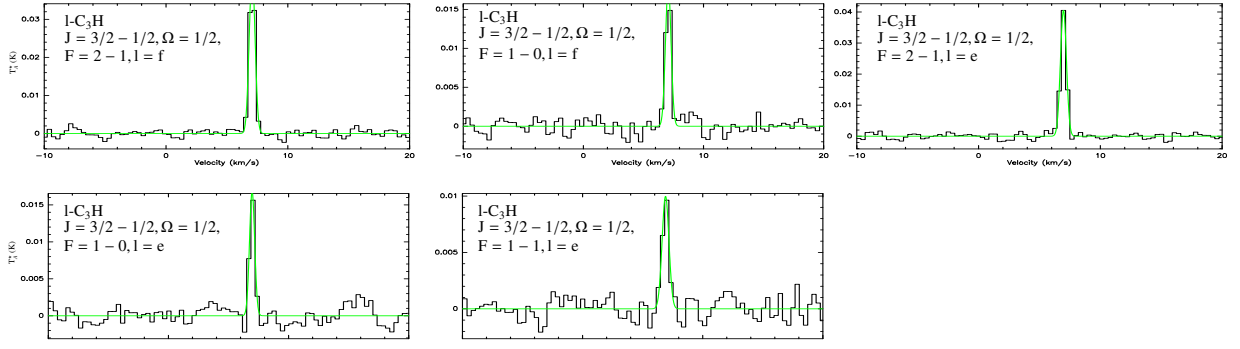


Fig. 15. Observed lines of l-C₃H with rms>3σ in B213-C2. Gaussian fits are shown in green.

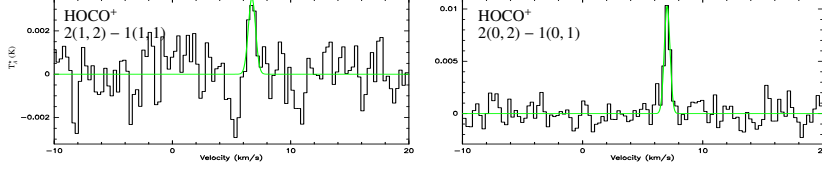


Fig. 16. Observed lines of HOCO⁺ with rms>3σ in B213-C2. Gaussian fits are shown in green.

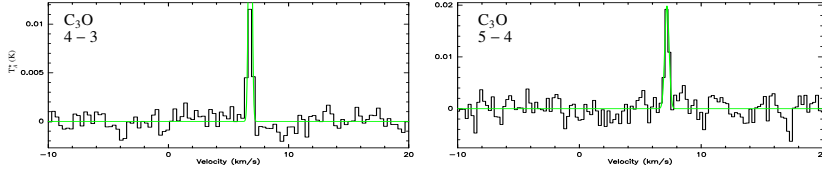


Fig. 17. Observed lines of C₃O with rms>3σ in B213-C2. Gaussian fits are shown in green.

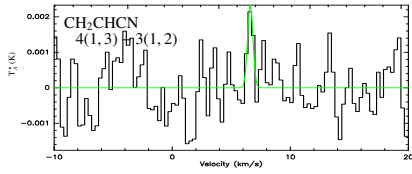


Fig. 18. Observed lines of CH₂CHCN with rms>3σ in B213-C2. Gaussian fits are shown in green.

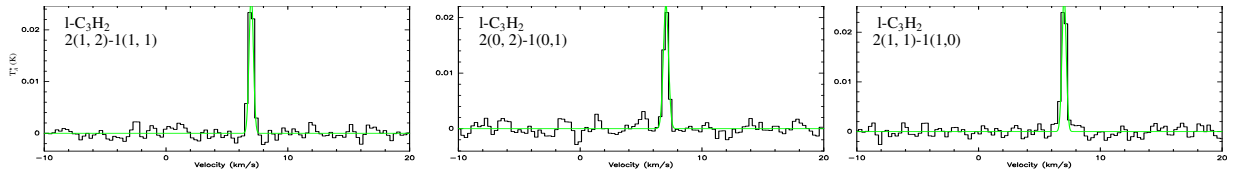


Fig. 19. Observed lines of l-C₃H₂ with rms>3σ in B213-C2. Gaussian fits are shown in green.

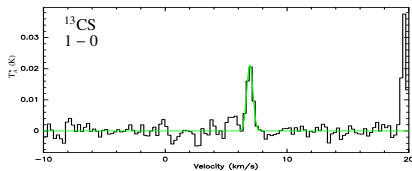


Fig. 20. Observed lines of ¹³CS with rms>3σ in B213-C2. Gaussian fits are shown in green.

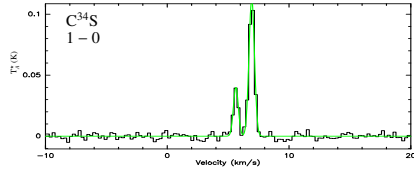


Fig. 21. Observed lines of C^{34}S with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

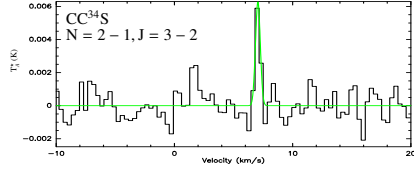


Fig. 22. Observed lines of CC^{34}S with $\text{rms} > 3\sigma$ in B213-C2. Gaussian fits are shown in green.

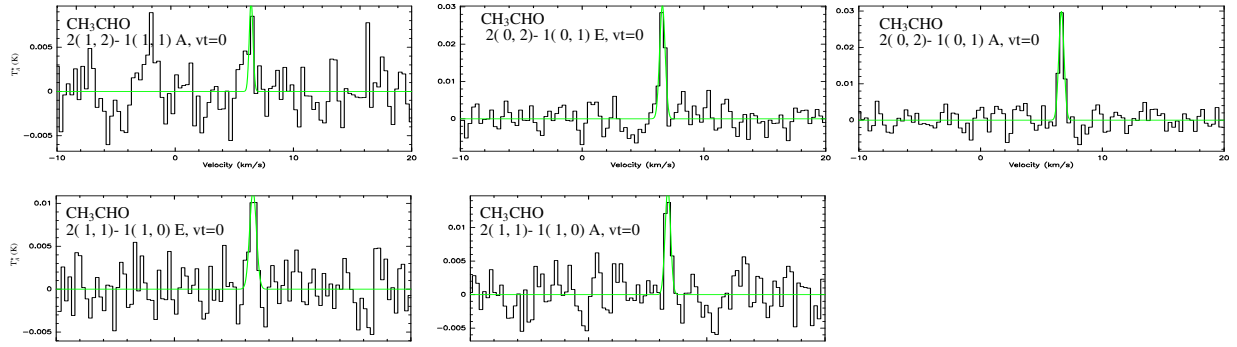


Fig. 23. Observed lines of CH_3CHO with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

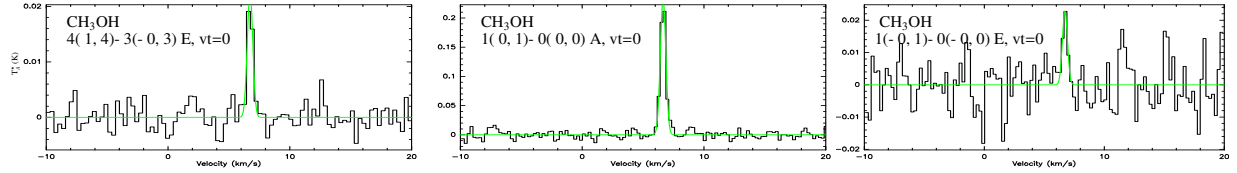


Fig. 24. Observed lines of CH_3OH with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

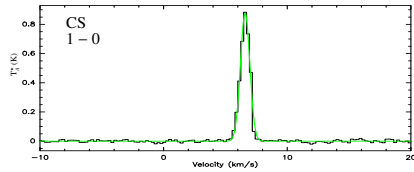


Fig. 25. Observed lines of CS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

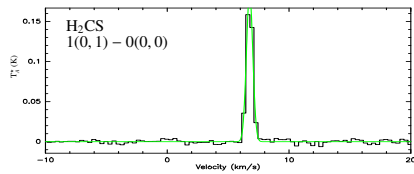


Fig. 26. Observed lines of H_2CS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

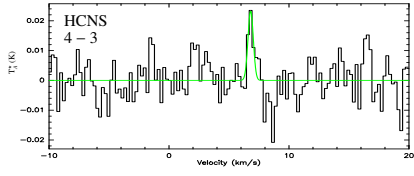


Fig. 27. Observed lines of HCNS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

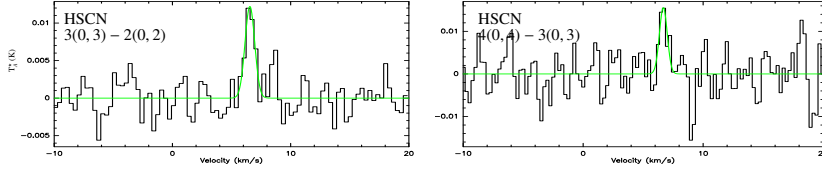


Fig. 28. Observed lines of HSCN with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

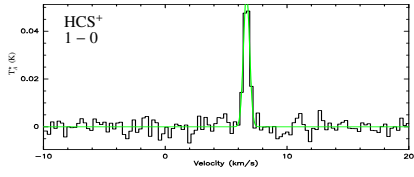


Fig. 29. Observed lines of HCS⁺ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

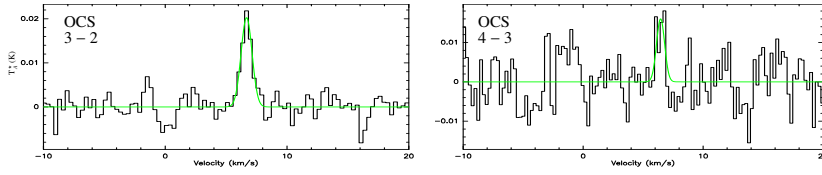


Fig. 30. Observed lines of OCS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

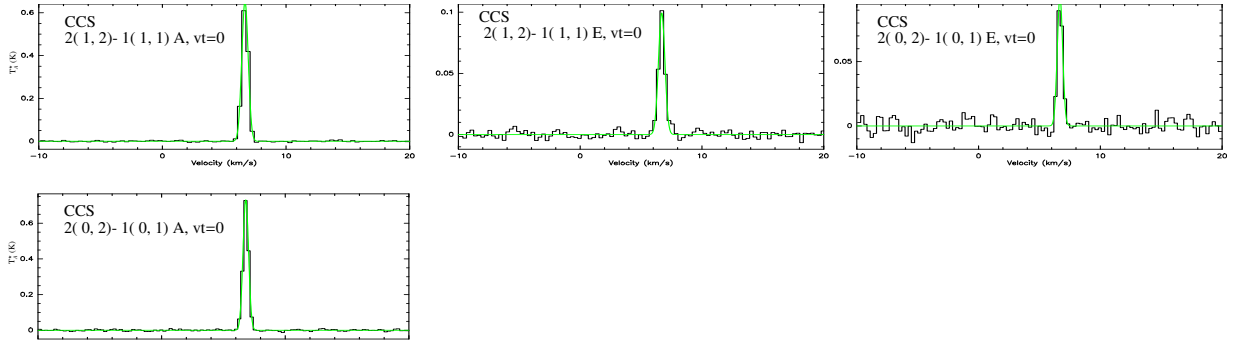


Fig. 31. Observed lines of CCS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

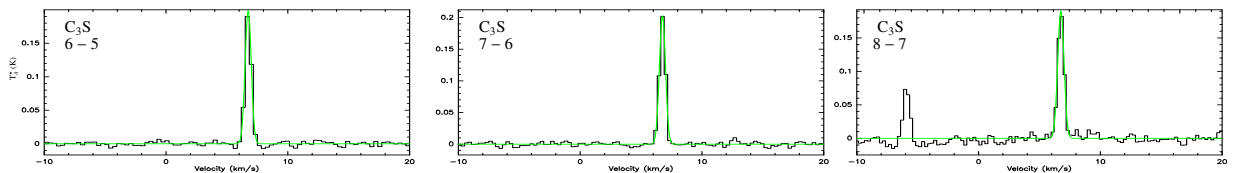


Fig. 32. Observed lines of C₃S with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

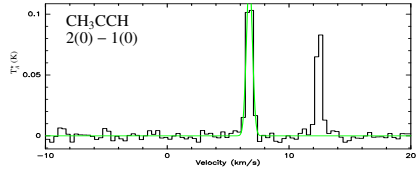


Fig. 33. Observed lines of CH_3CCH with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

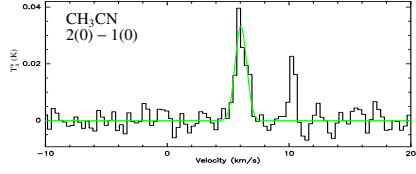


Fig. 34. Observed lines of CH_3CN with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

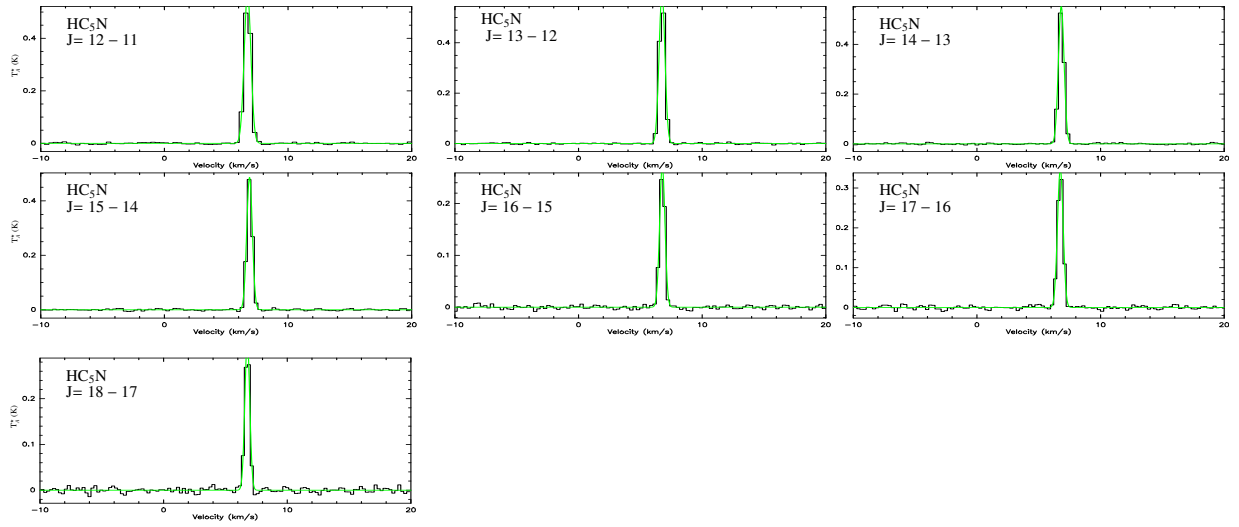


Fig. 35. Observed lines of HC_5N with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

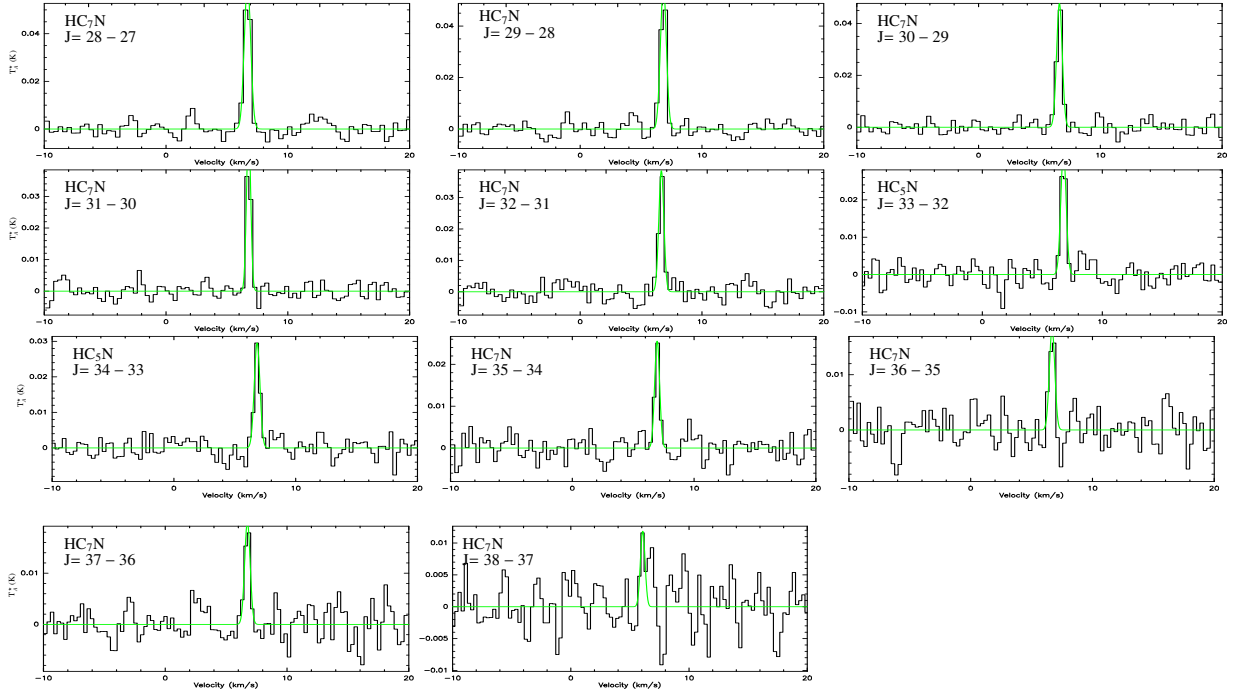


Fig. 36. Observed lines of HC_7N with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

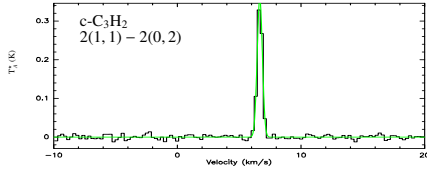


Fig. 37. Observed lines of $\text{c-C}_3\text{H}_2$ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

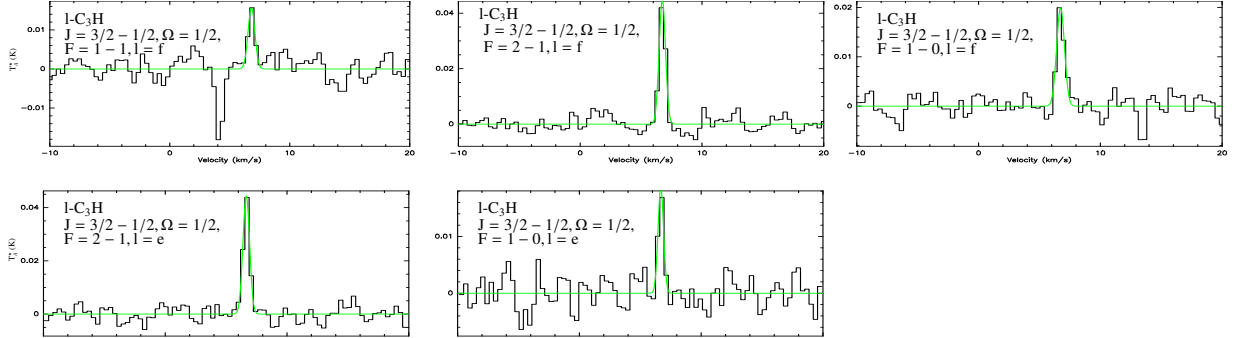


Fig. 38. Observed lines of $\text{l-C}_3\text{H}$ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

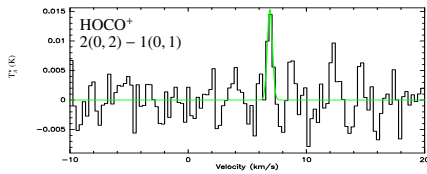


Fig. 39. Observed lines of HOCO^+ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

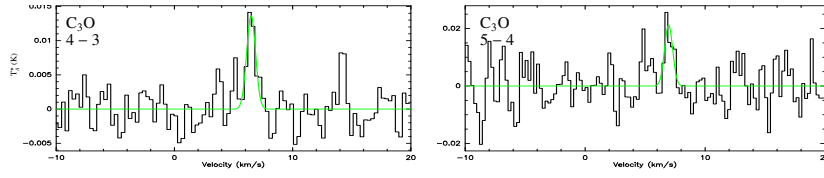


Fig. 40. Observed lines of C_3O with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

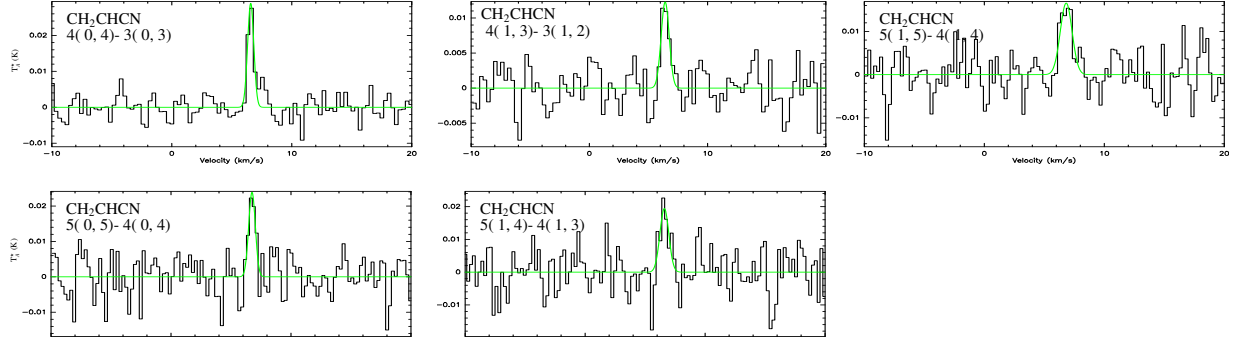


Fig. 41. Observed lines of CH_2CHCN with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

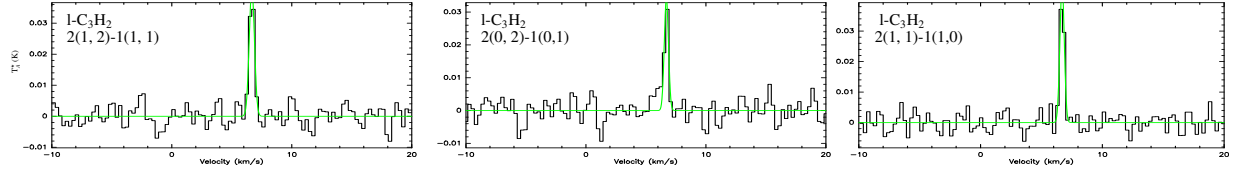


Fig. 42. Observed lines of $l-C_3H_2$ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

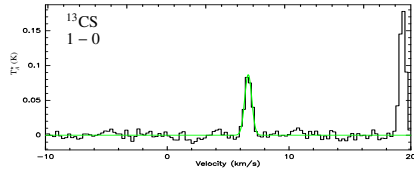


Fig. 43. Observed lines of ^{13}CS with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

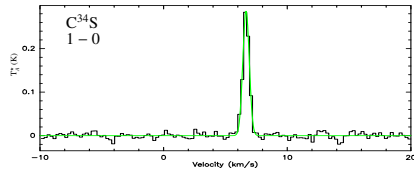


Fig. 44. Observed lines of $C^{34}S$ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

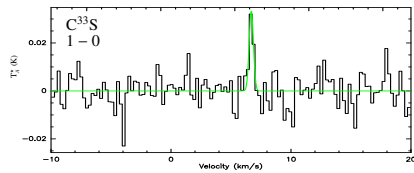


Fig. 45. Observed lines of $C^{33}S$ with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

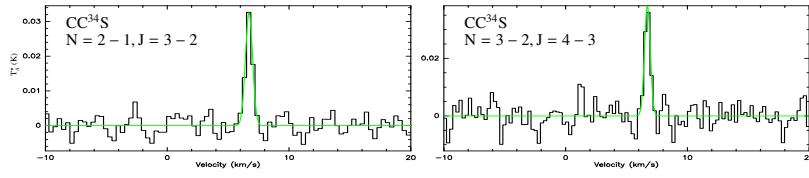


Fig. 46. Observed lines of CC^{34}S with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.

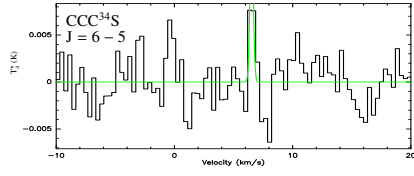


Fig. 47. Observed lines of CCC^{34}S with $\text{rms} > 3\sigma$ in B213-C16. Gaussian fits are shown in green.