

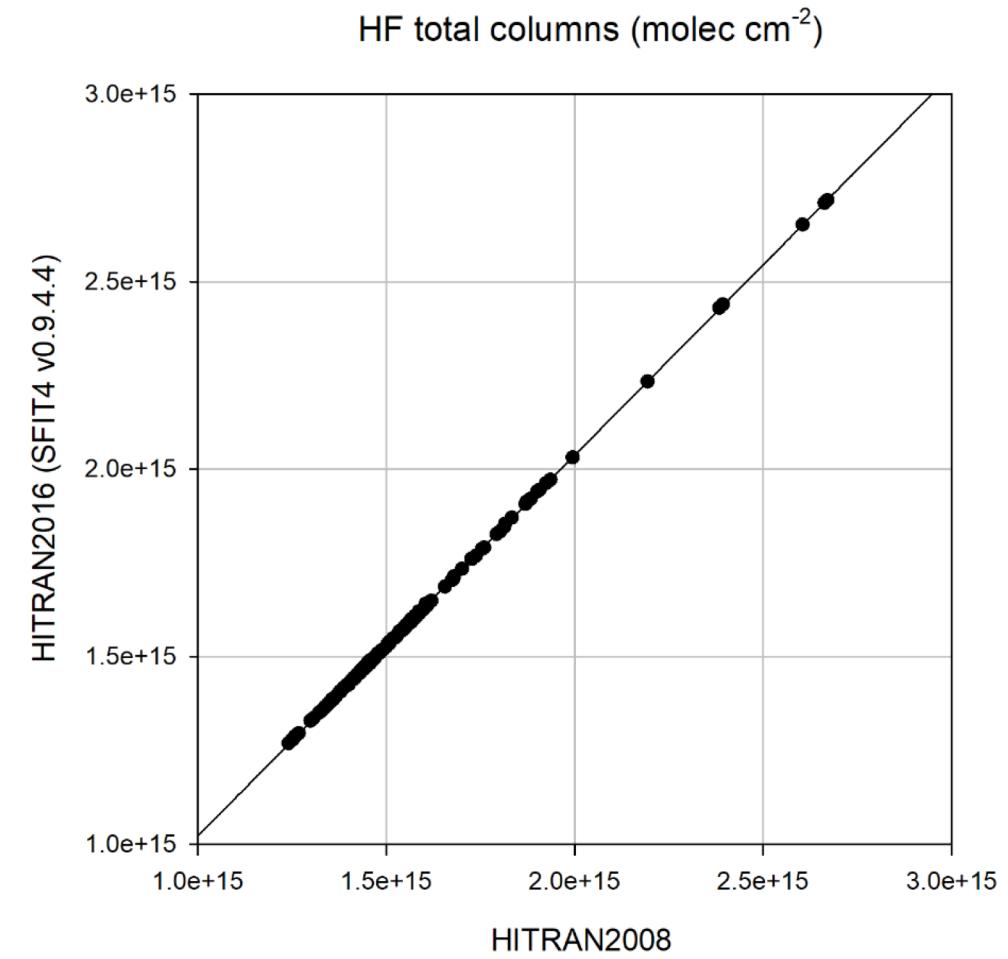
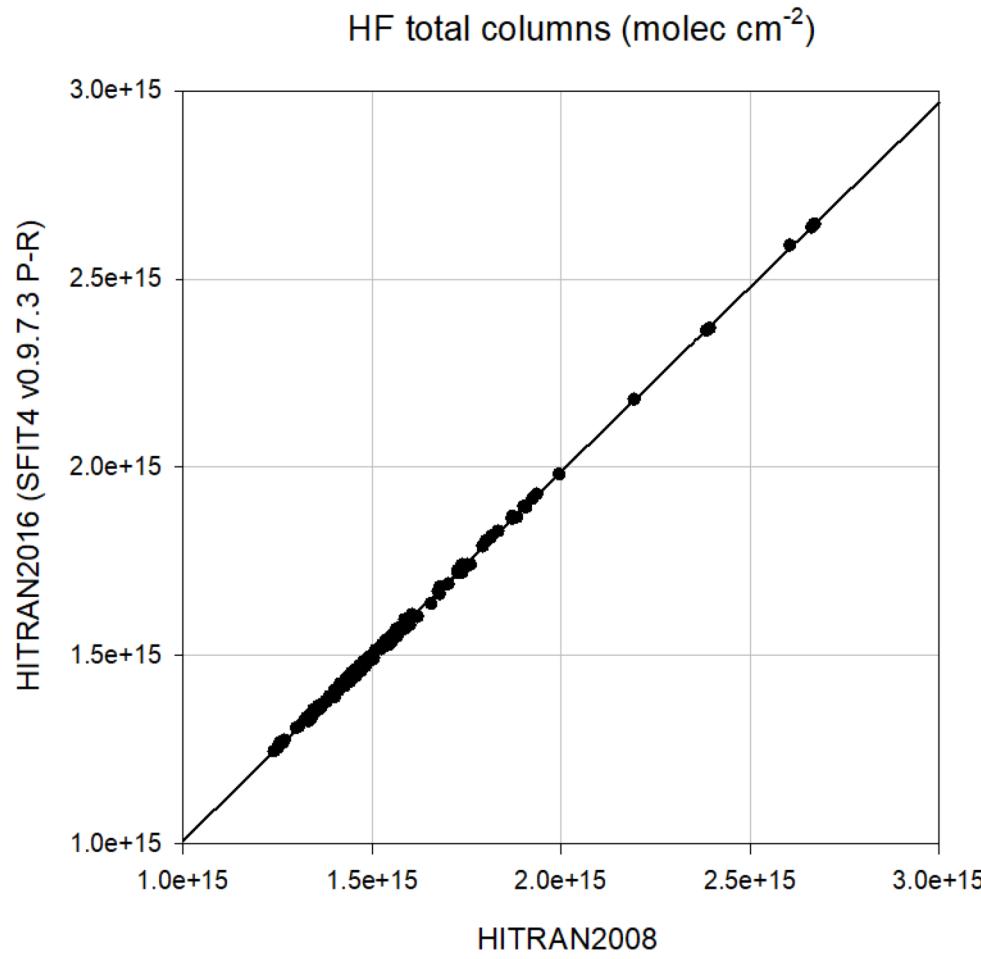


[www.jungfrau.ch](http://www.jungfrau.ch)

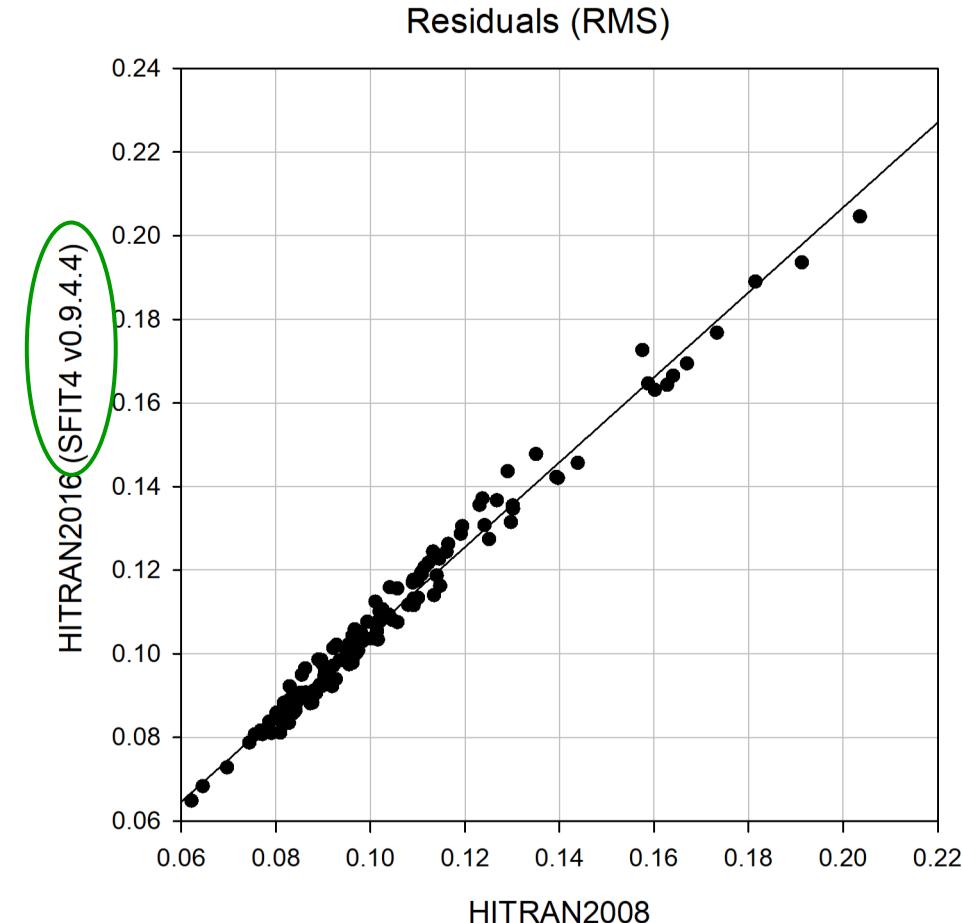
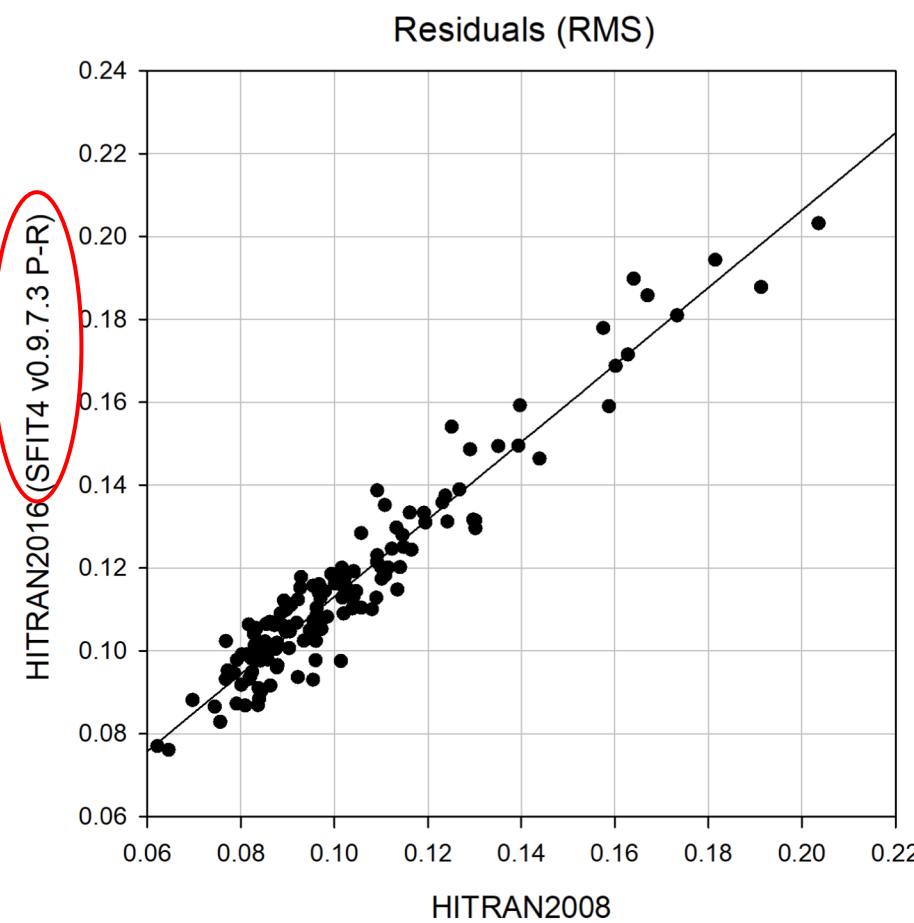
# Tests of spectroscopic linelists for HF

Application to Jungfraujoch spectra

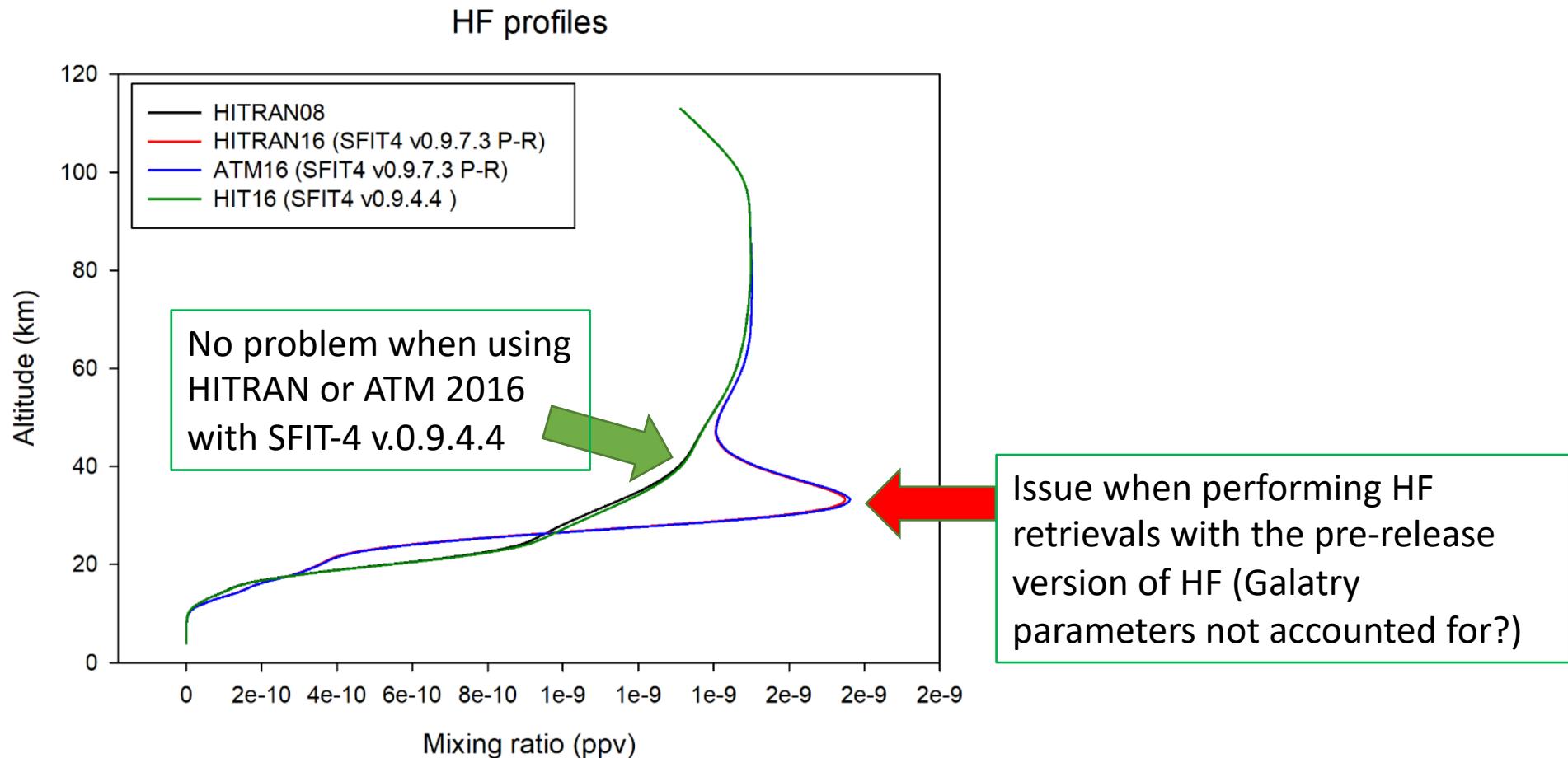
# Hydrogen fluoride – HITRAN2016 vs HITRAN2008



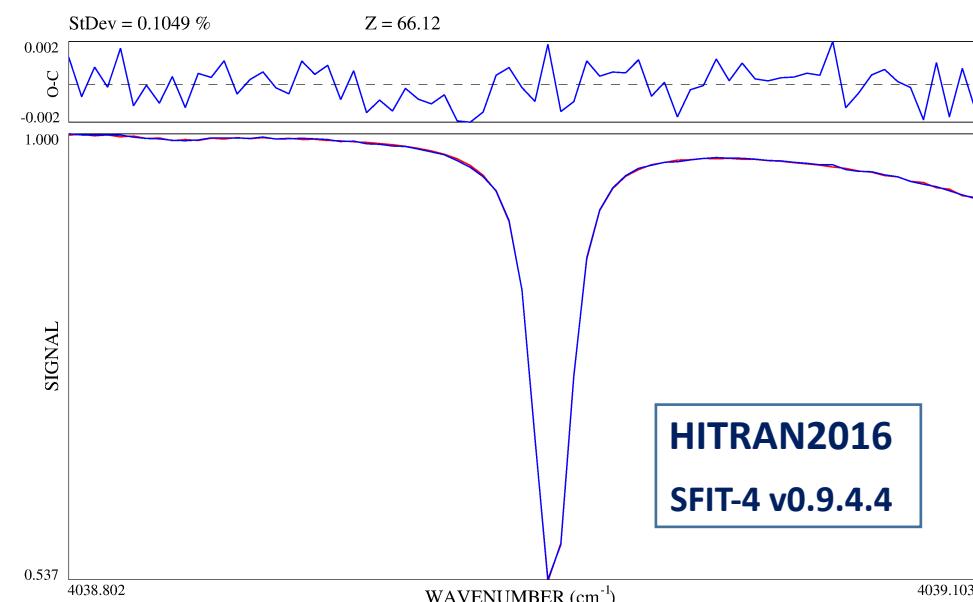
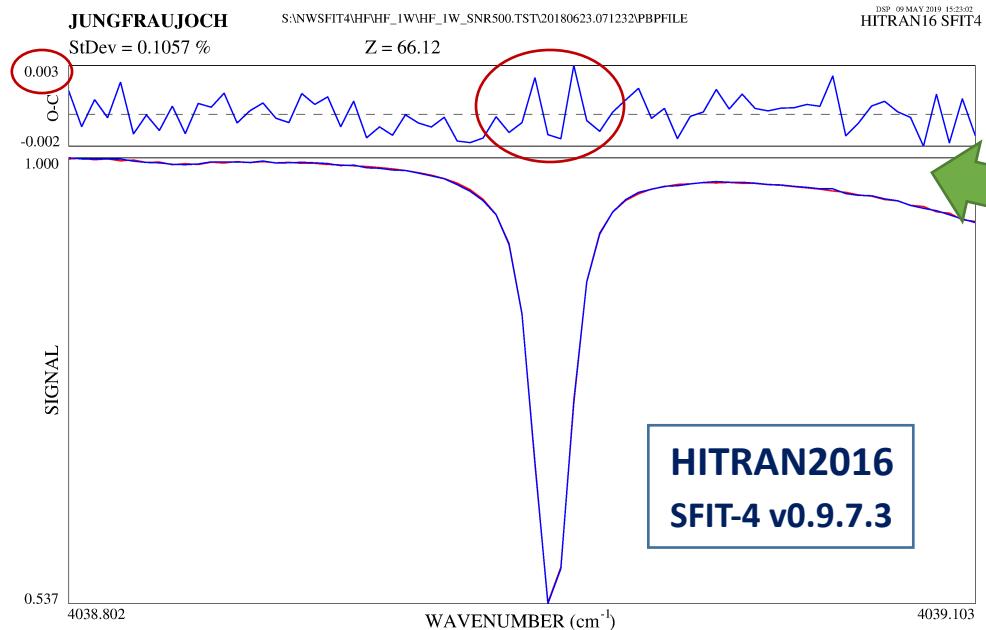
# Hydrogen fluoride – HITRAN2016 vs HITRAN2008



# Hydrogen fluoride – HITRAN2016 vs HITRAN2008

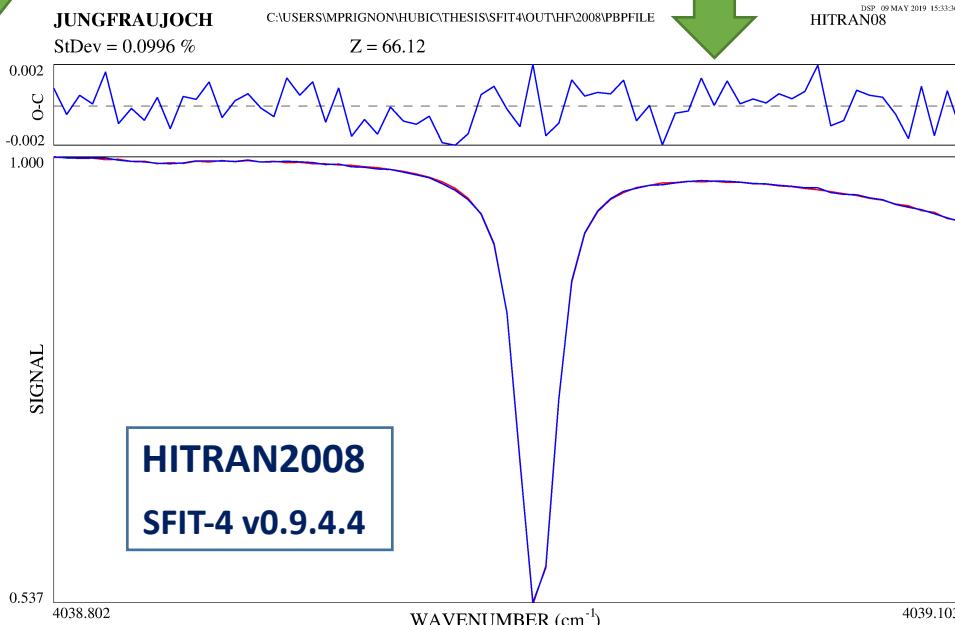


# HF line near $4039\text{ cm}^{-1}$



Degradation of the fitting residuals near the line center when using HITRAN2016 and SFIT-4 v0.9.7.3

The fitting residuals are very similar when using HITRAN2016 or HITRAN2008 with SFIT-4 v0.9.4.4



# Summary for HF

HITRAN16 minus HITRAN08  $\pm$  1std

	SFIT4v0.9.7.3 P-R	SFIT4v0.9.4.4
Total Columns	(-0.15 $\pm$ 0.52)%	(1.92 $\pm$ 0.16)%
RMS	(12.38 $\pm$ 6.71)%	(5.02 $\pm$ 2.83)%
DOFS	(3.91 $\pm$ 0.43)%	(-0.47 $\pm$ 0.06)%