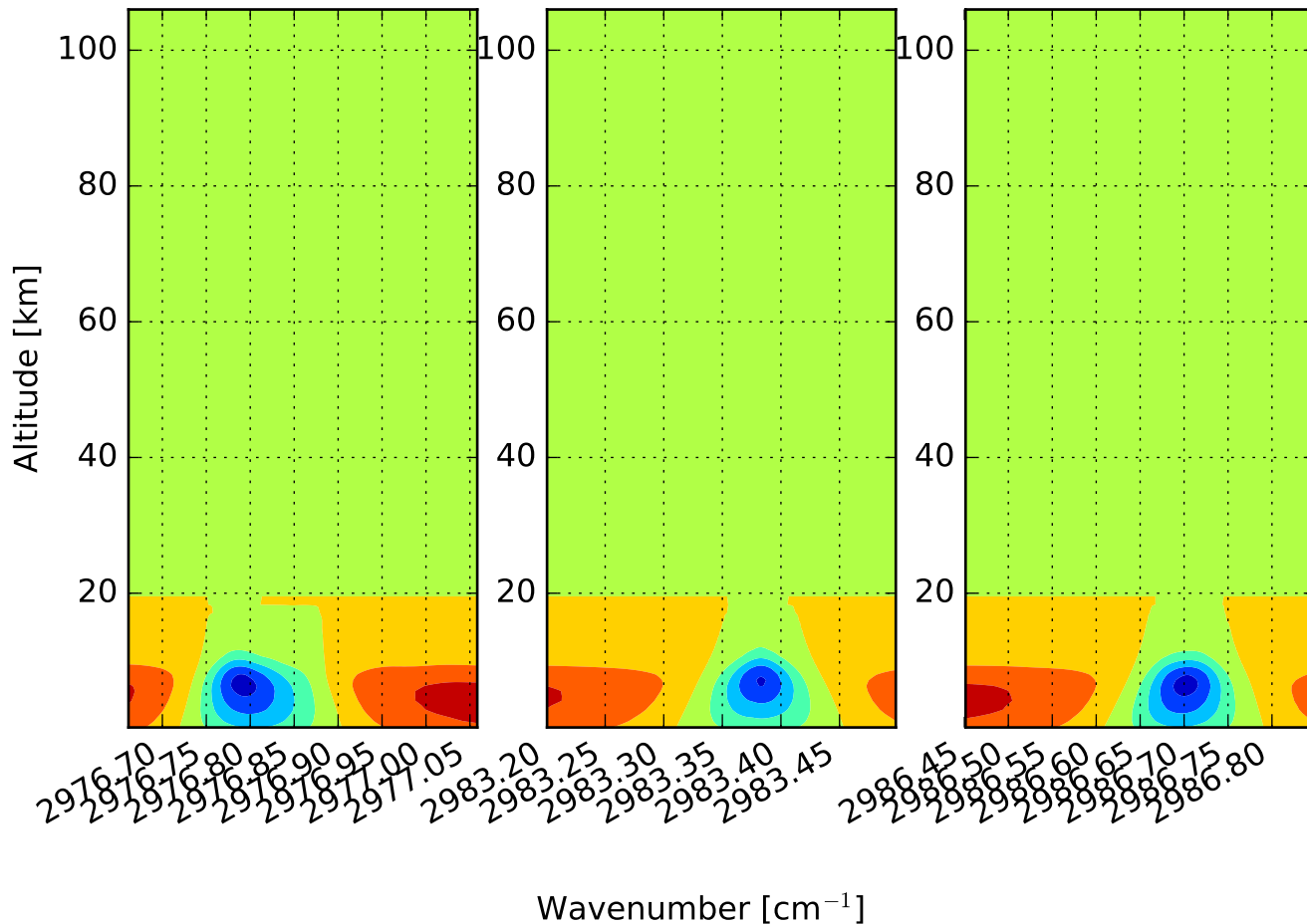
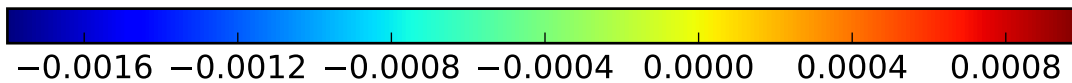
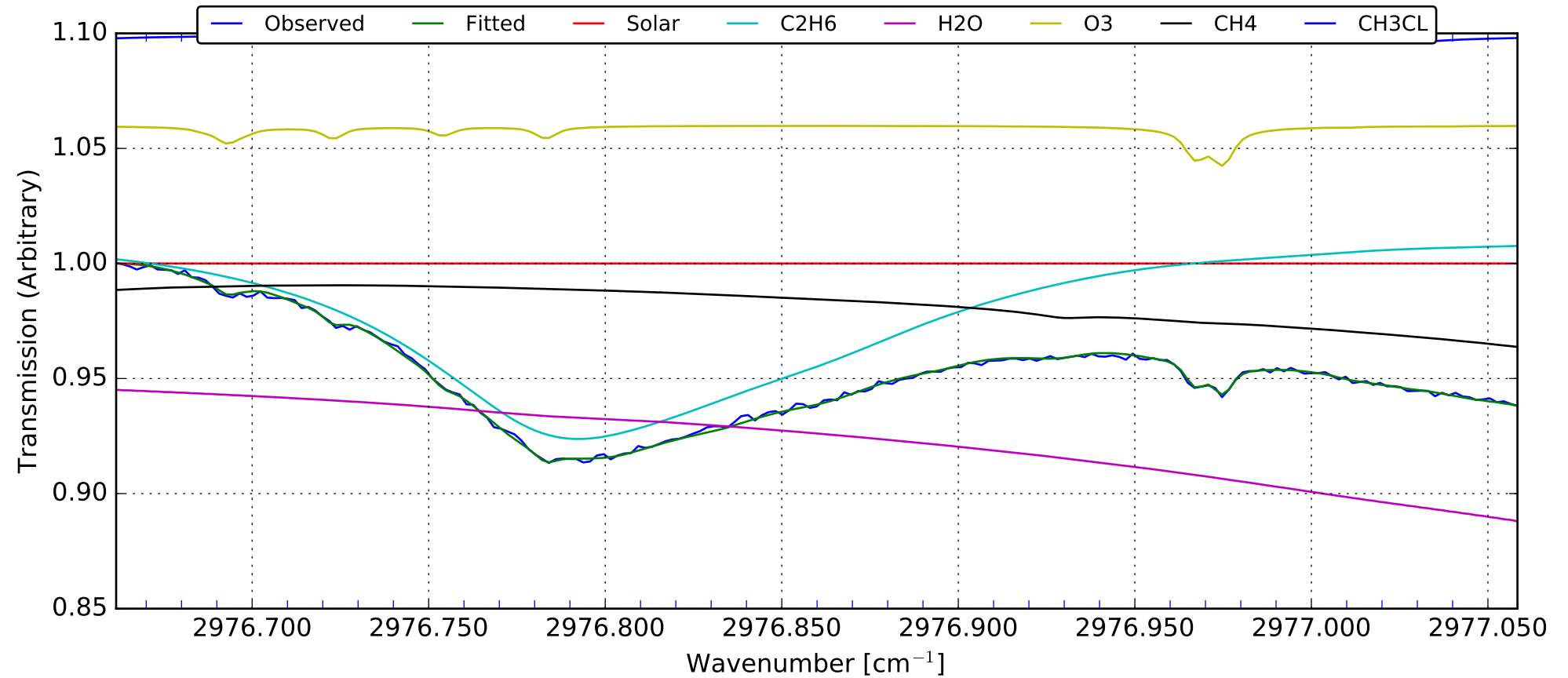
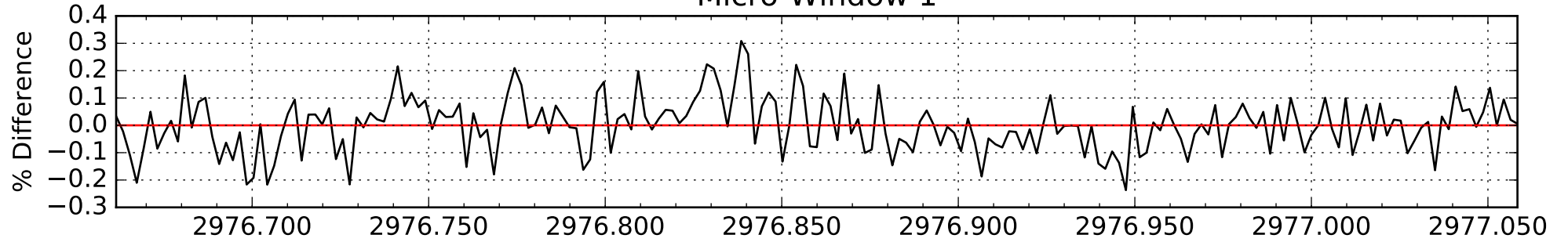


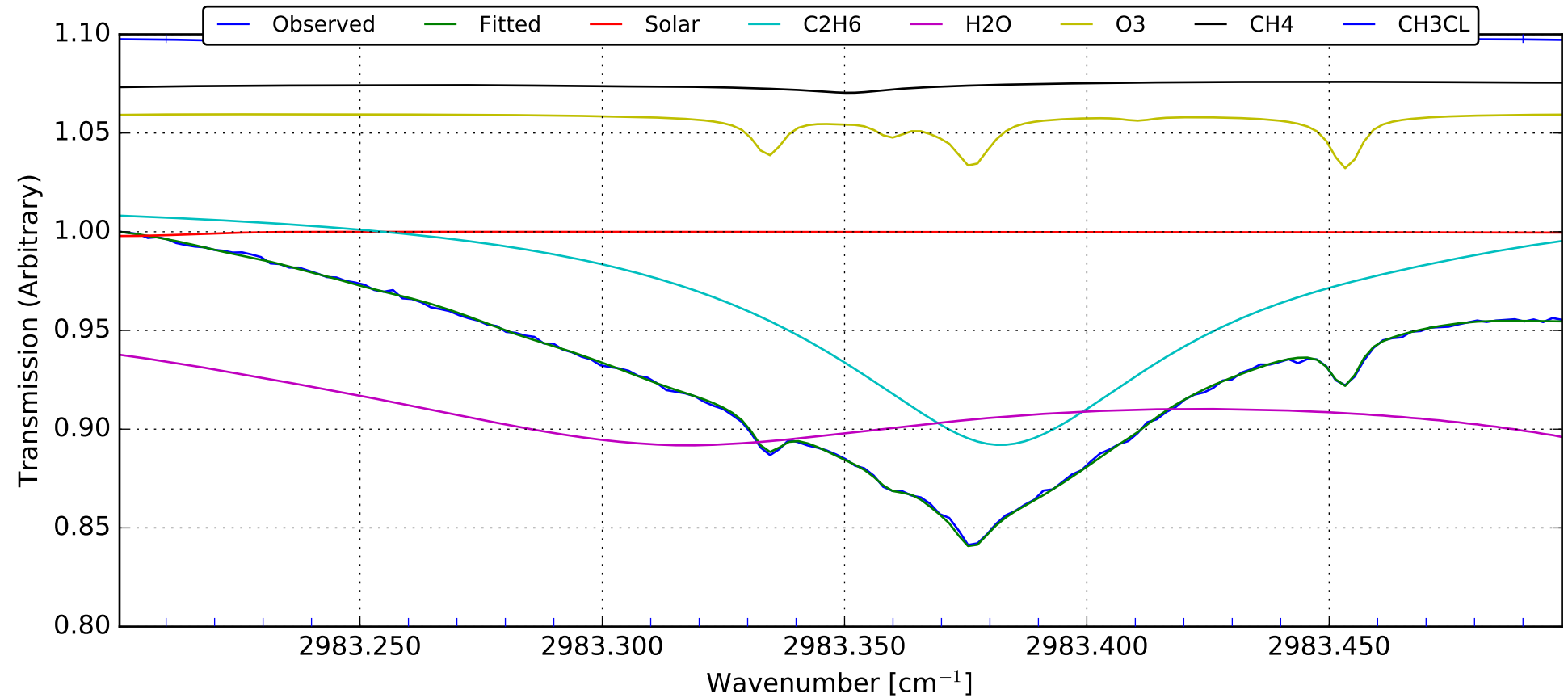
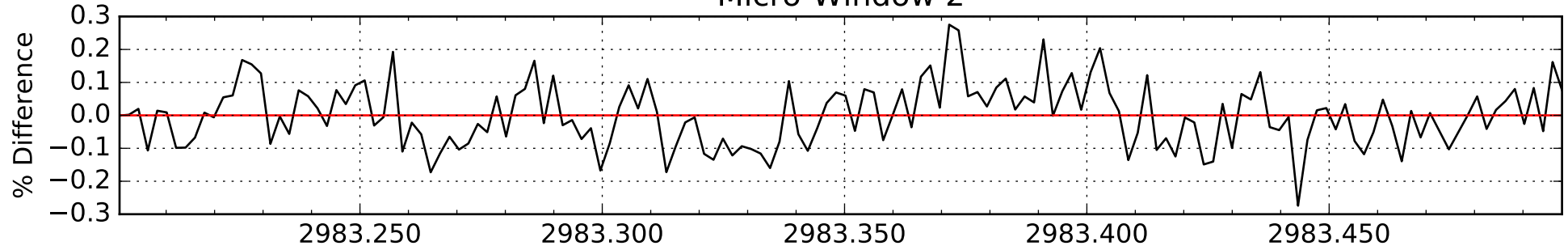
Jacobian Matrix



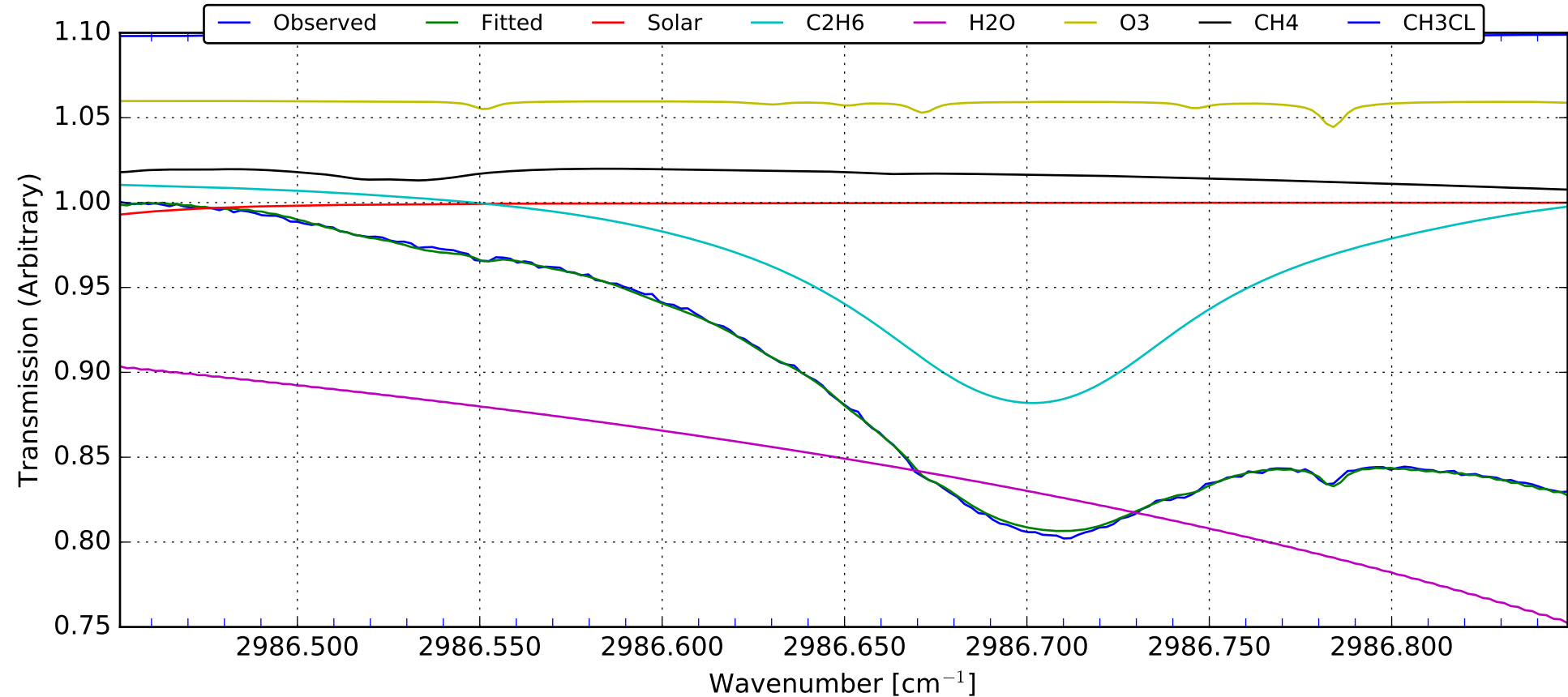
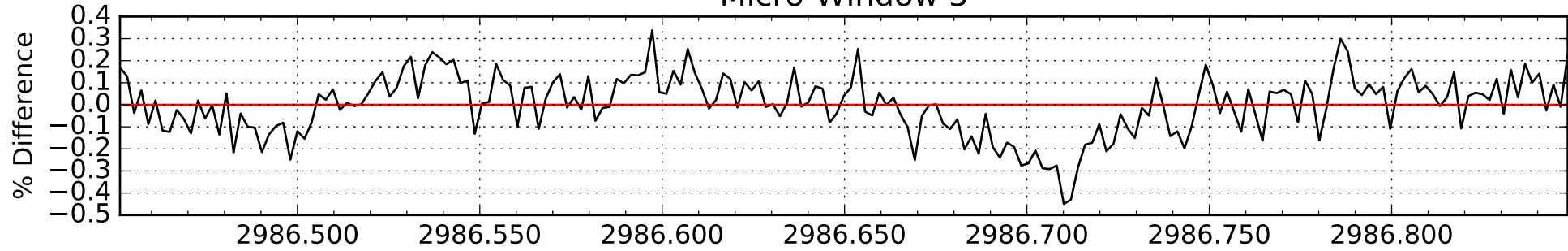
Micro-Window 1



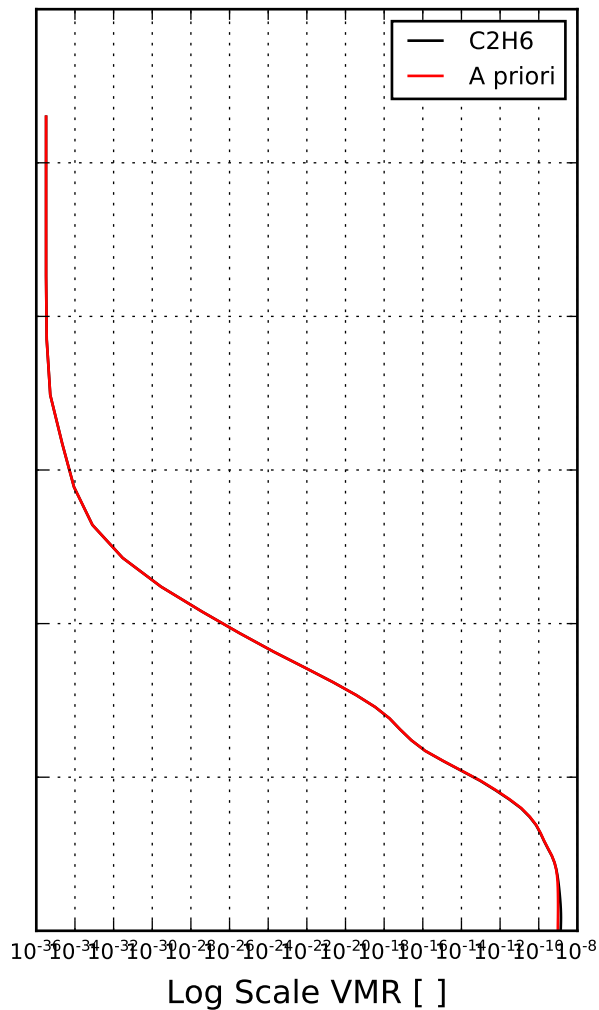
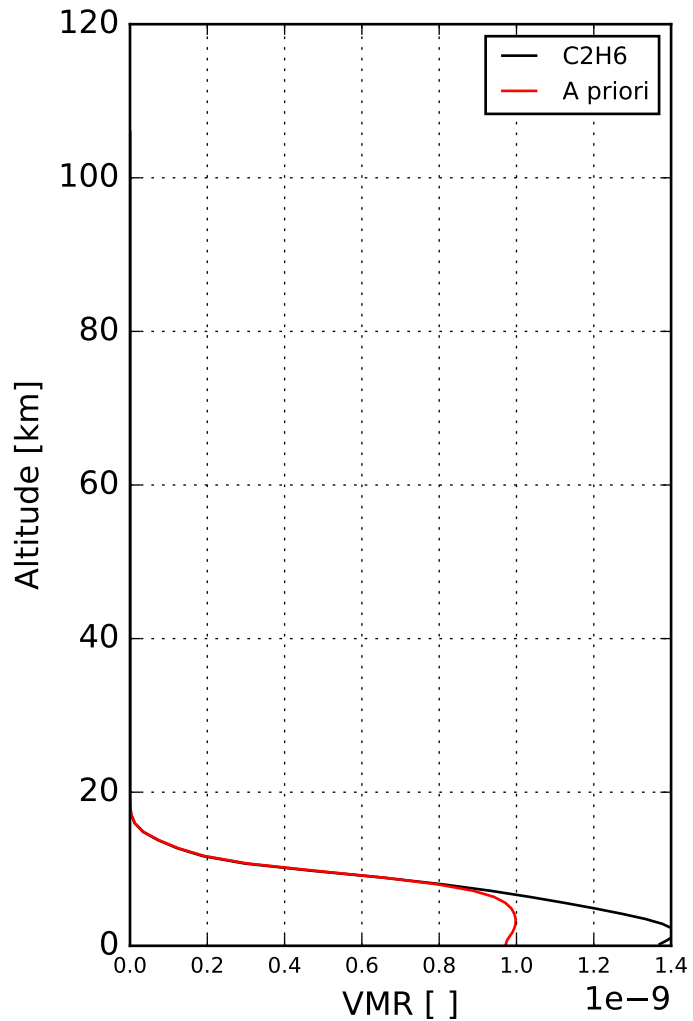
Micro-Window 2

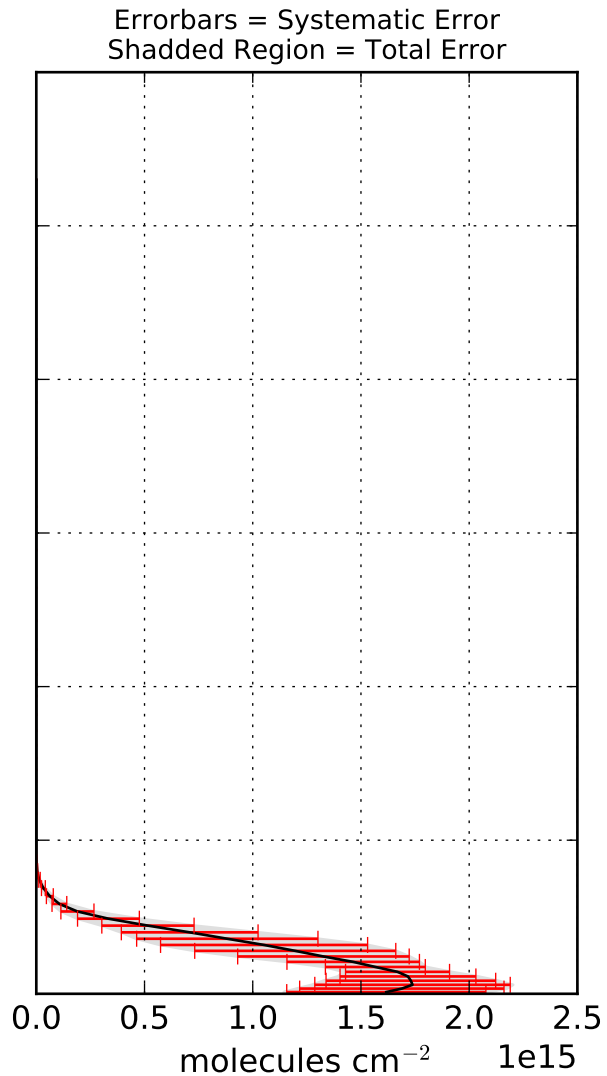
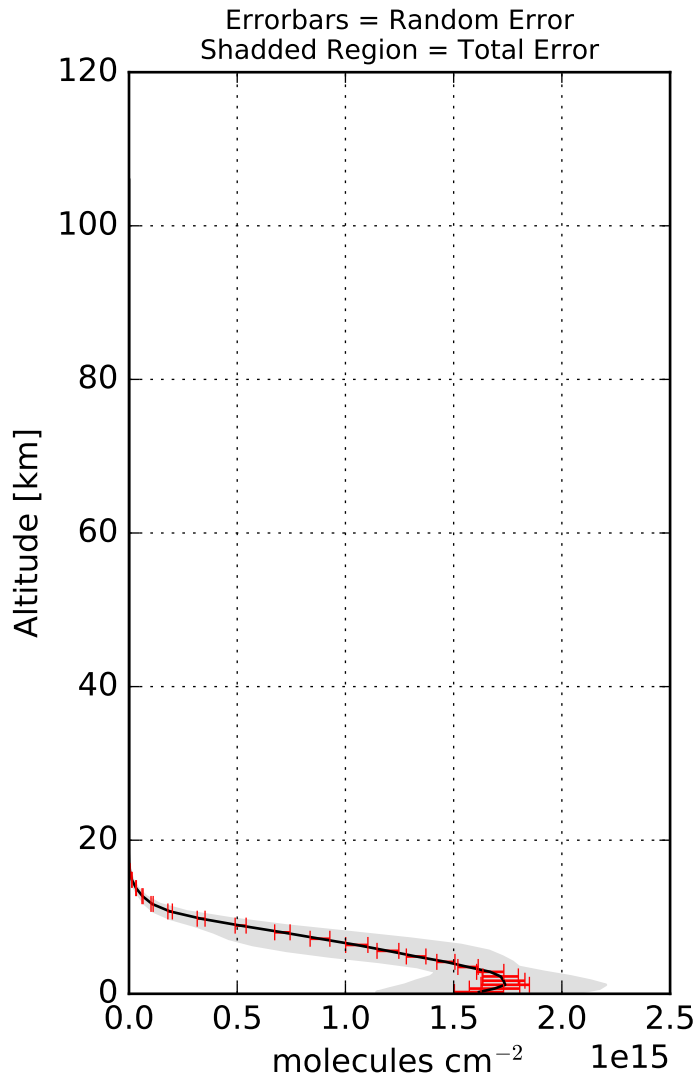


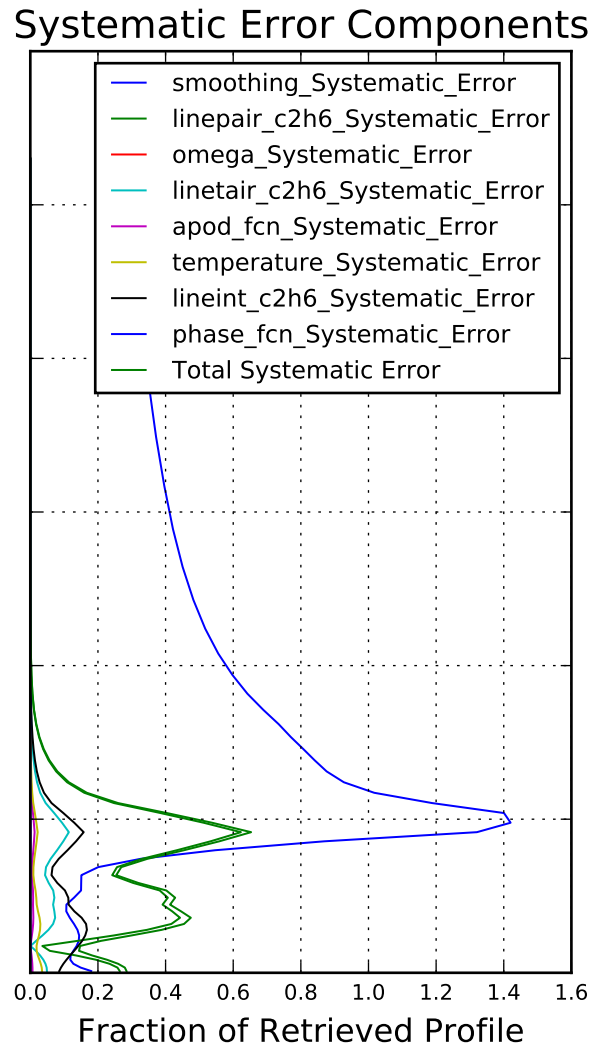
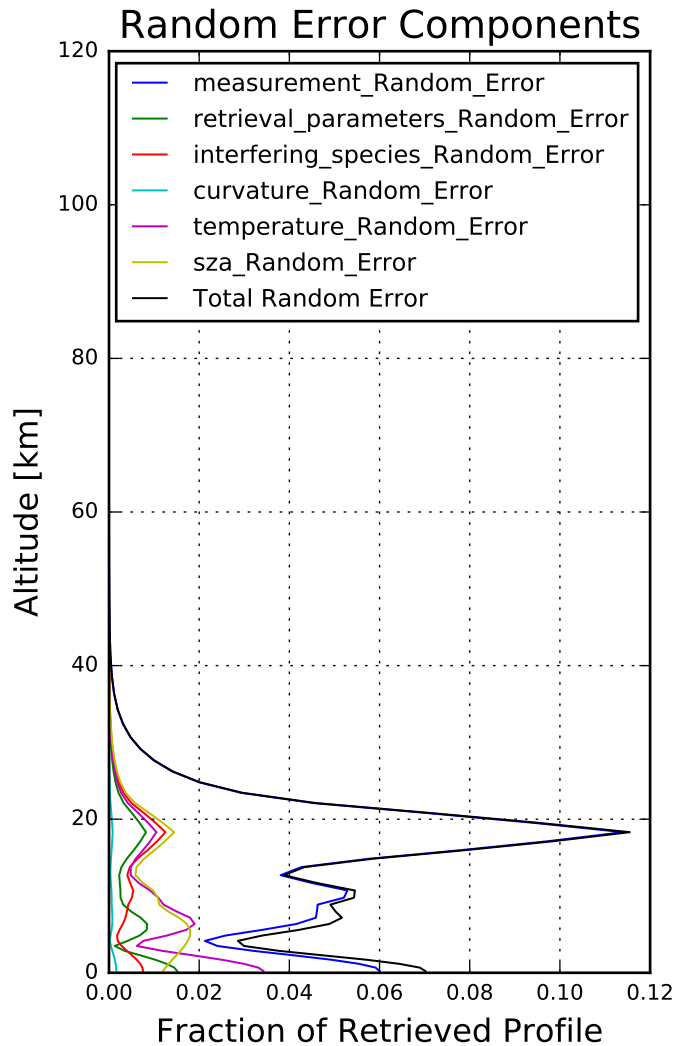
Micro-Window 3



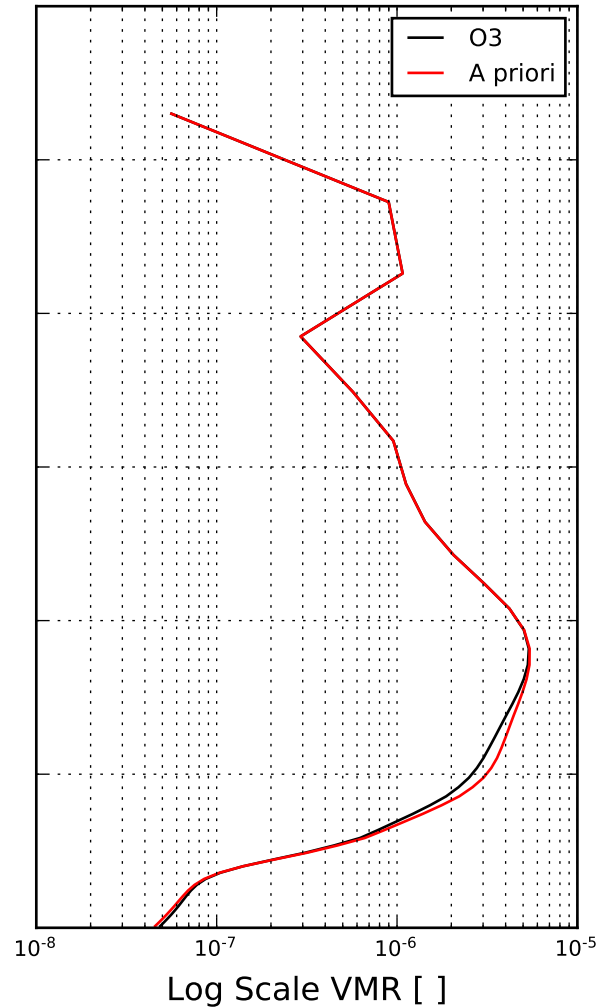
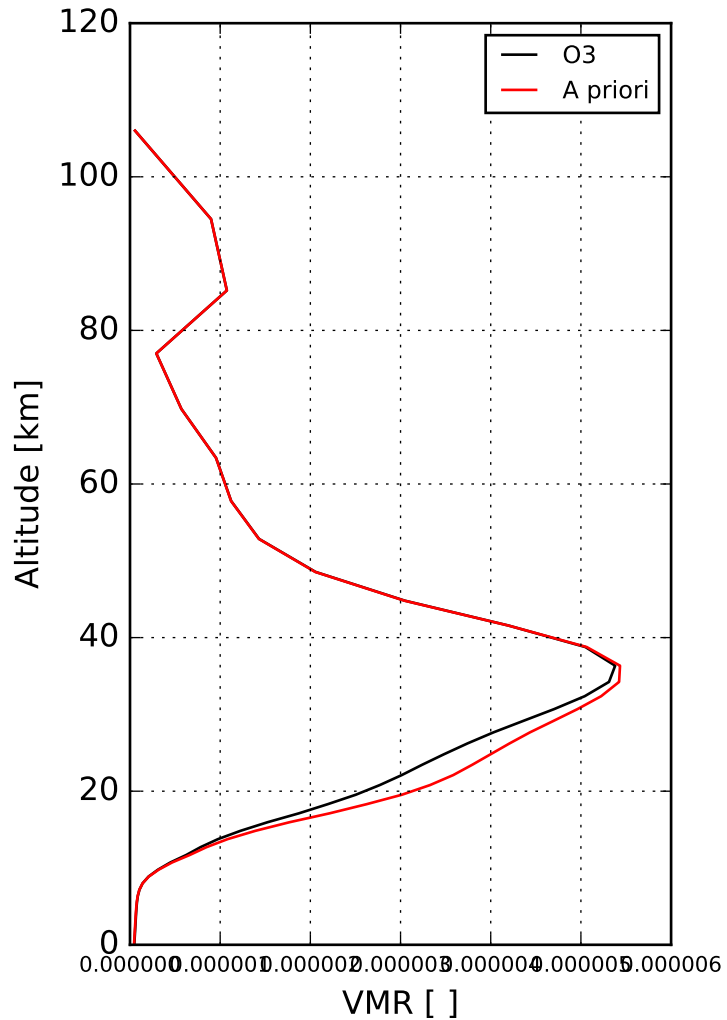
C2H6



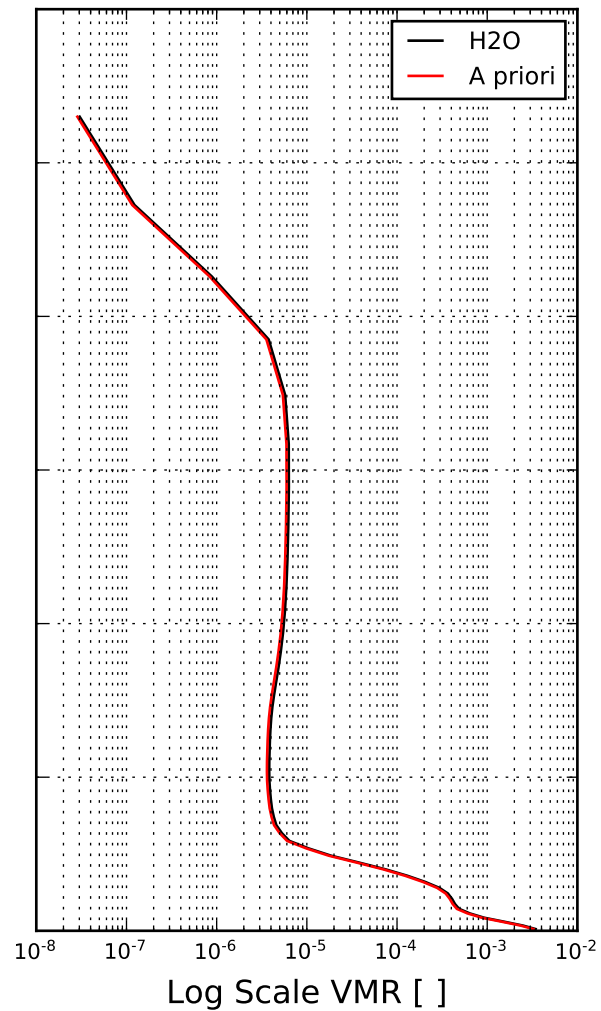
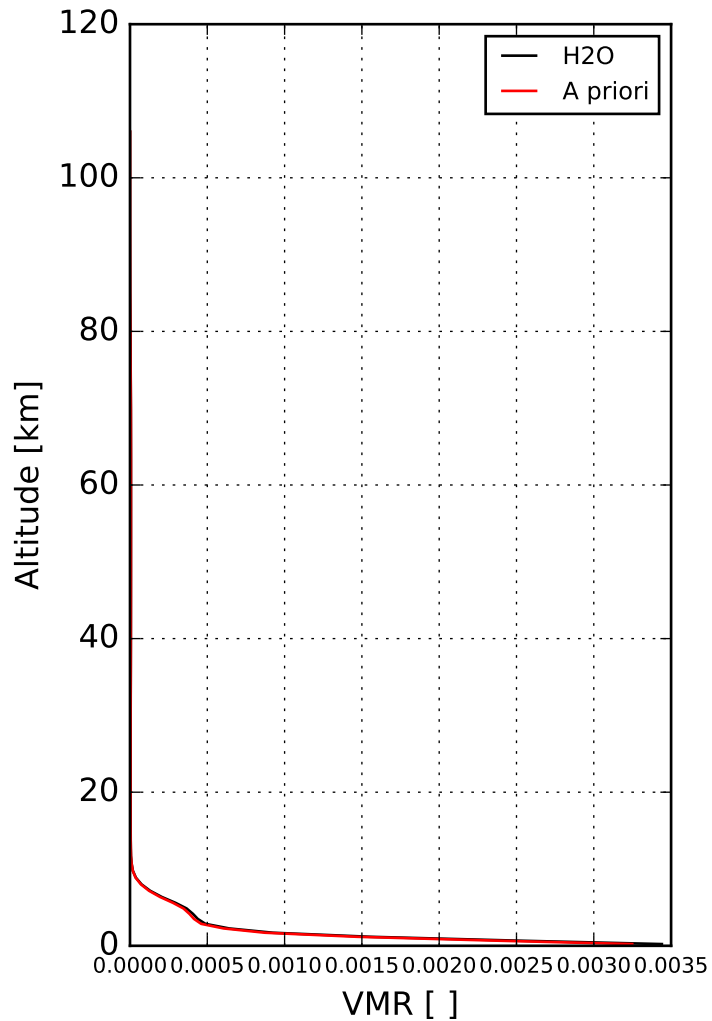




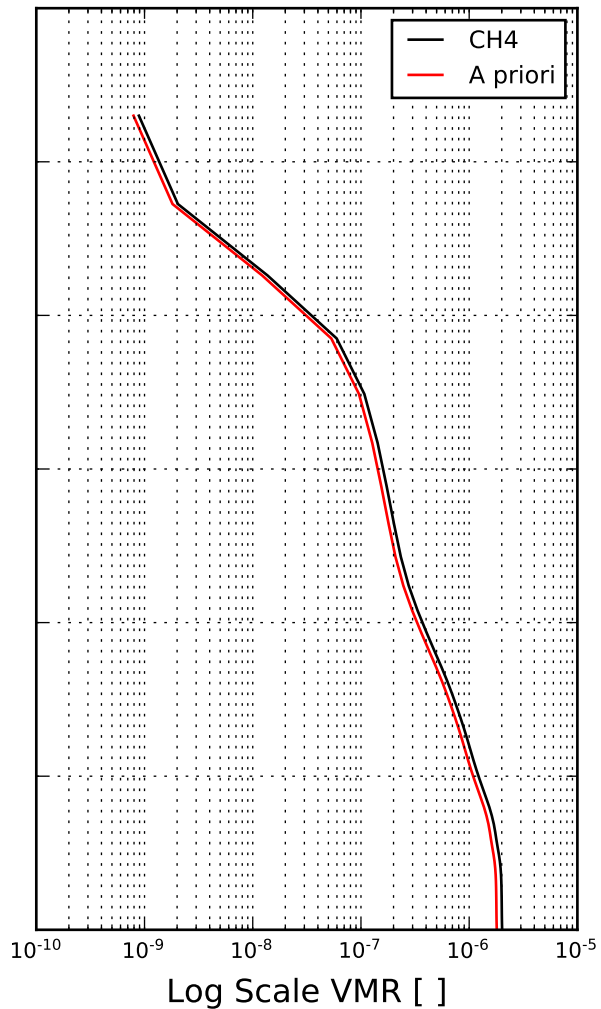
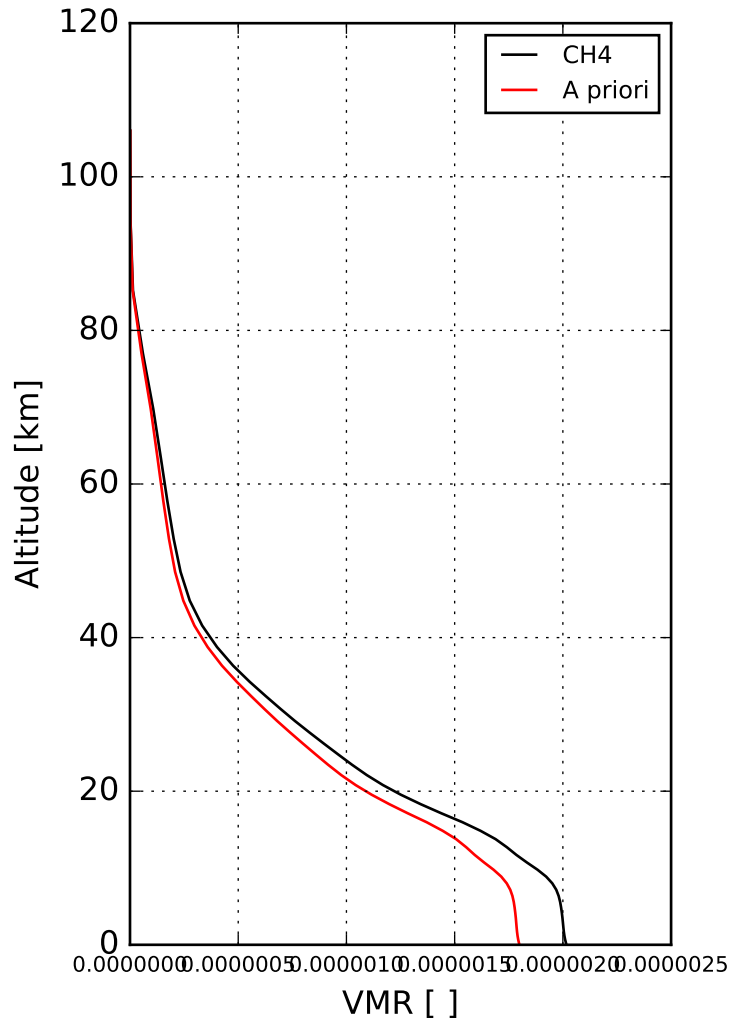
O3



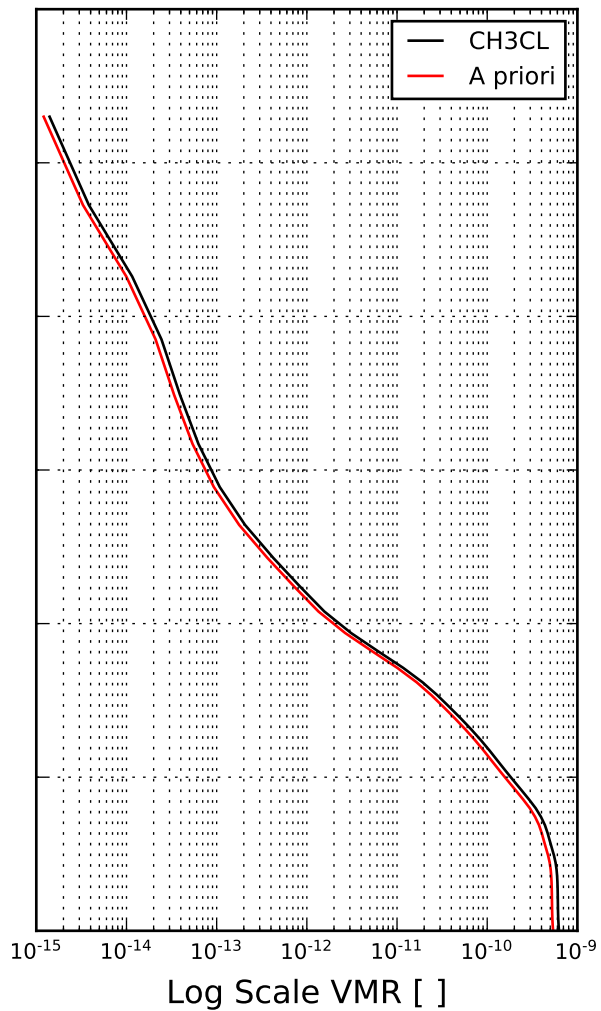
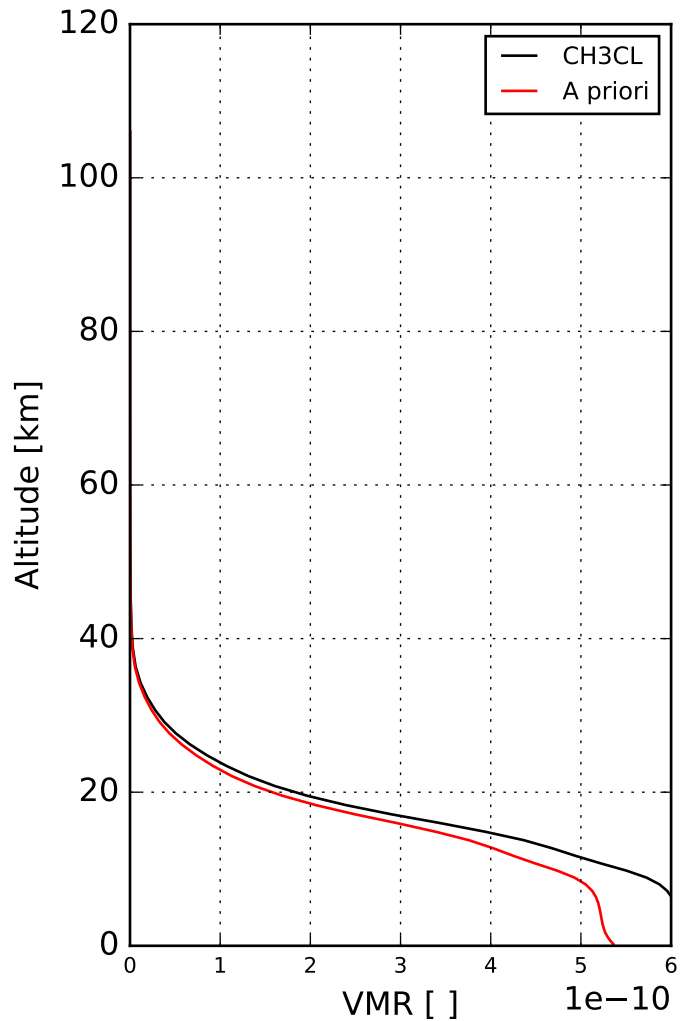
H2O

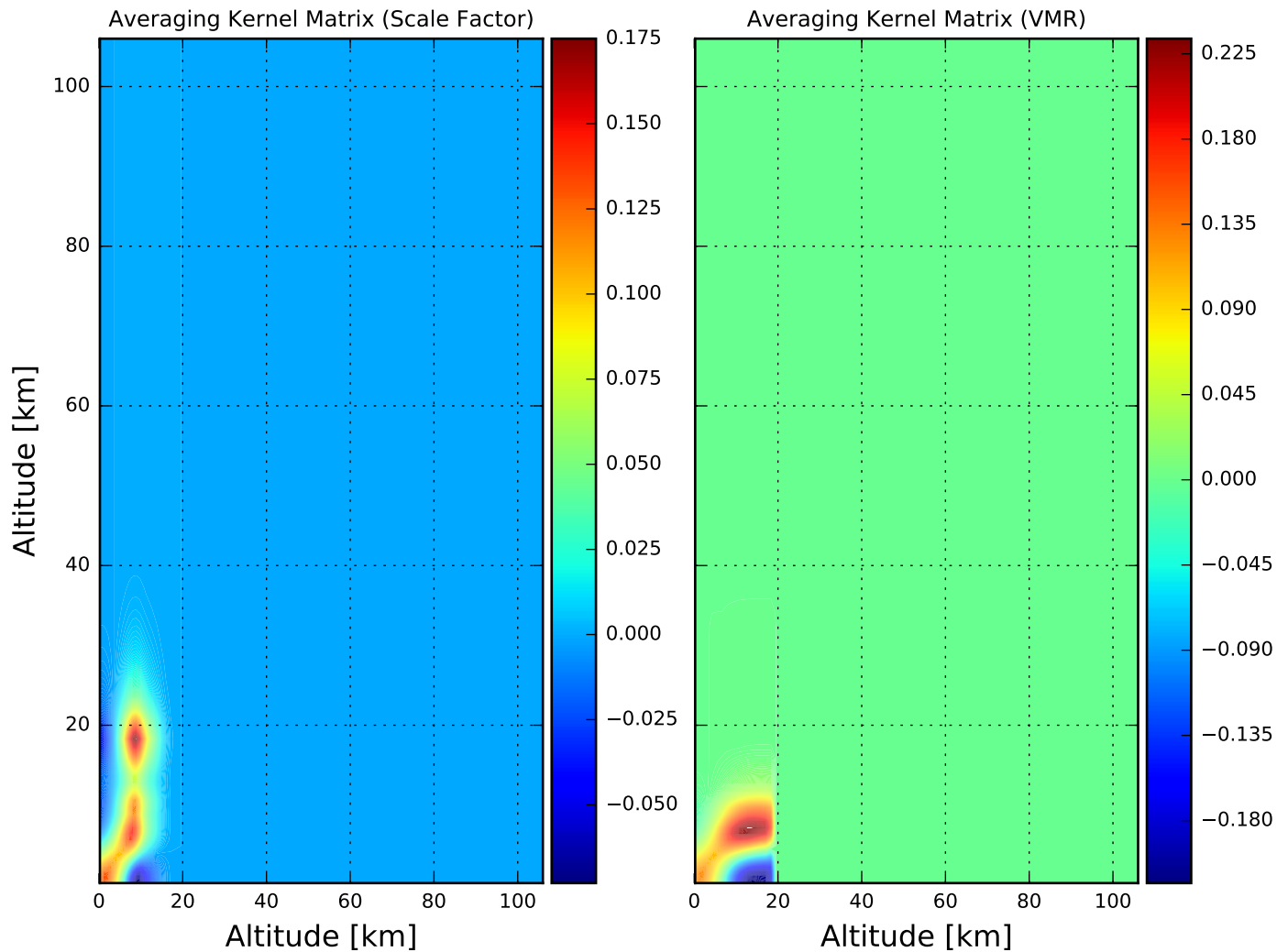


CH4

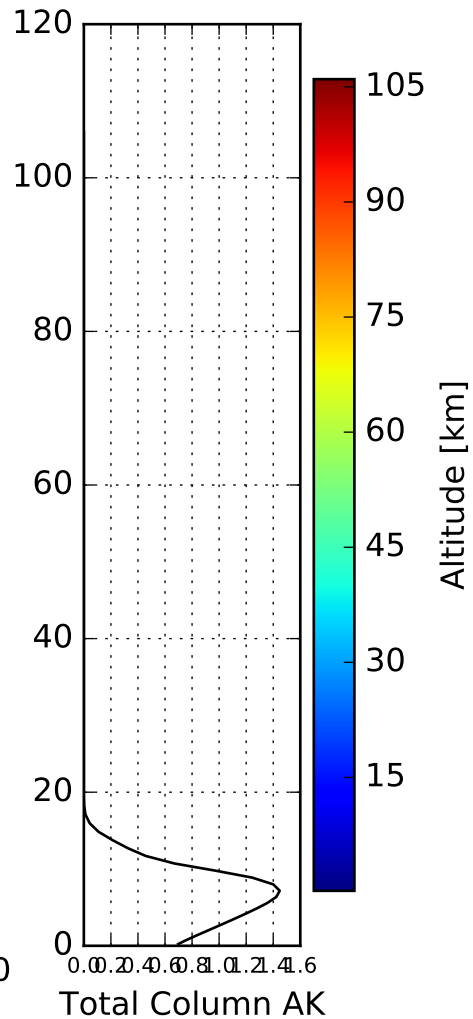
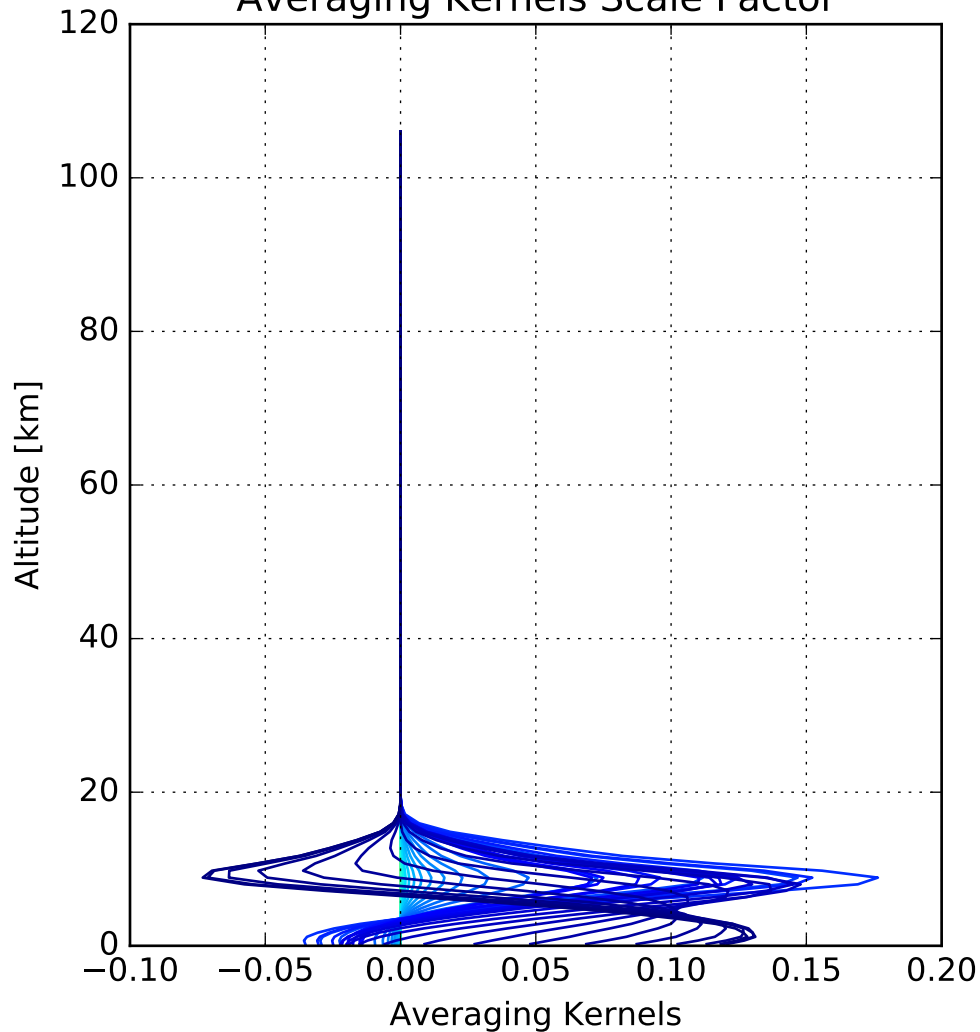


CH3CL

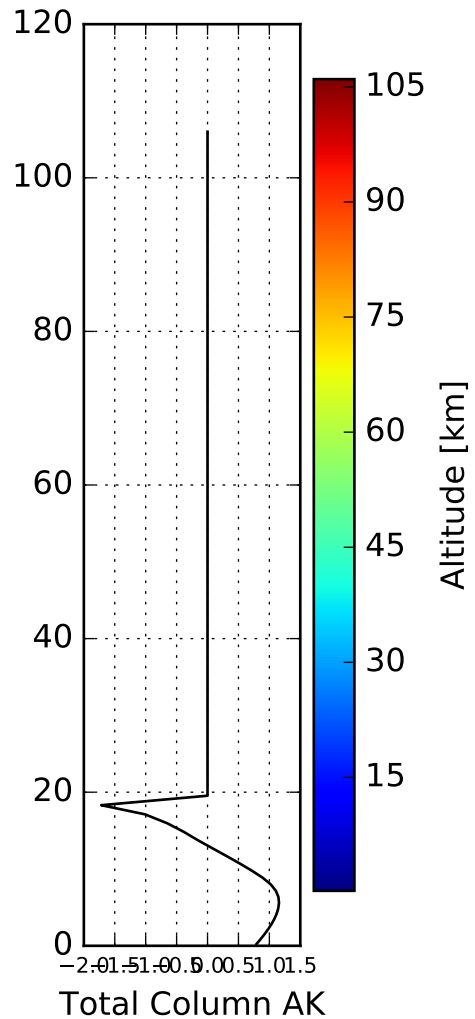
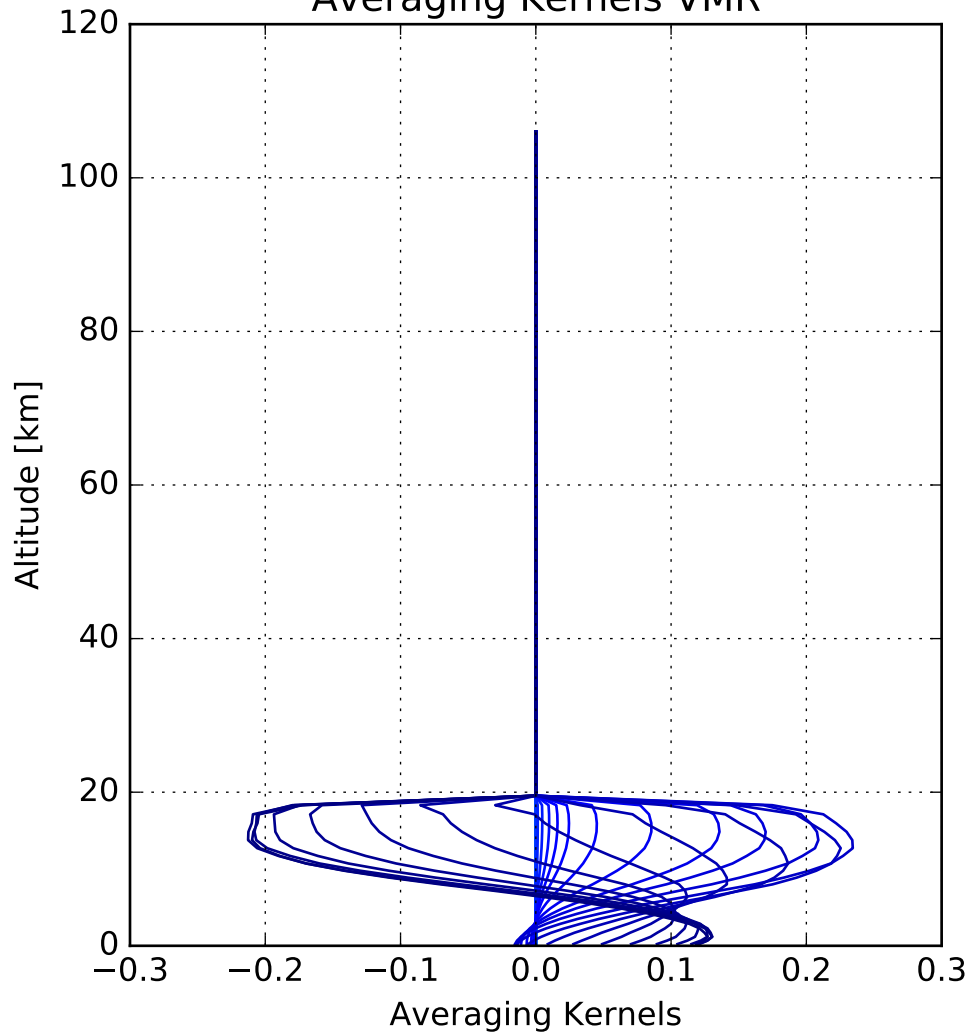




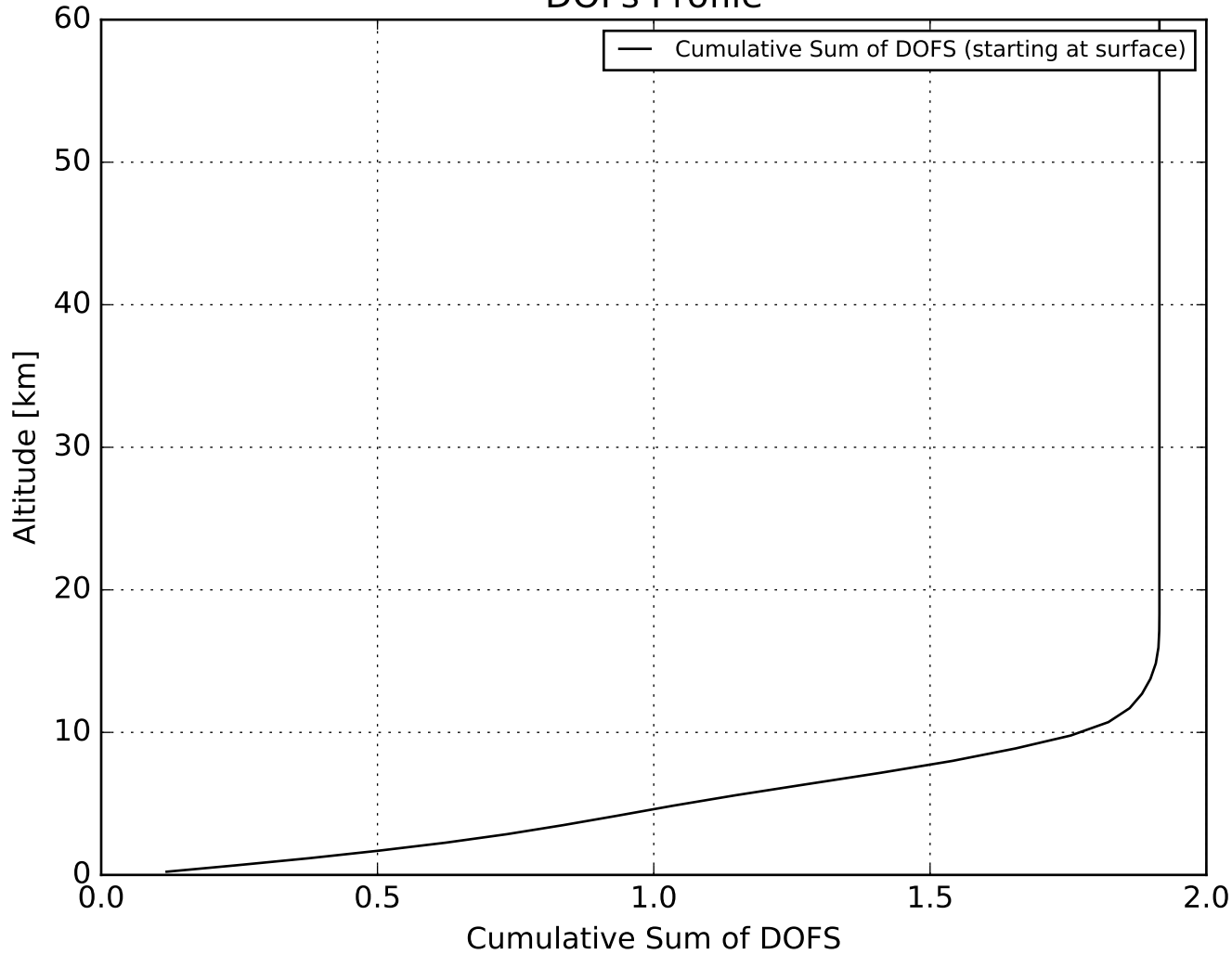
Averaging Kernels Scale Factor



Averaging Kernels VMR



DOFs Profile



SFIT4: Pre-Release:Pre-Release -- Sept 9 2014 RUNTIME:20190114-11:17:51 RETRIEVAL SUMMARY

3

20170520 13:56:01UT Z:059.701 A:316.91 D:0204.7 R:0.0035 P:BX V:02.3923 E:6397□□
20170520 13:56:01UT Z:059.701 A:316.91 D:0204.7 R:0.0035 P:BX V:02.3923 E:6397□□
20170520 13:56:01UT Z:059.701 A:316.91 D:0204.7 R:0.0035 P:BX V:02.3923 E:6397□□

5

IRET	GAS_NAME	IFPRF	APR_COLUMN	RET_COLUMN
1	C2H6	T	4.66631E+15	1.96177E+16
2	O3	T	1.03827E+19	9.37520E+18
3	H2O	F	1.29288E+22	1.36926E+22
4	CH4	F	3.48390E+19	3.90509E+19
5	CH3CL	F	9.76489E+15	1.13483E+16

3

IBAND	NUSTART	NUSTOP	SPACE	NPTSB	PMAX	FOVDIA	MEAN_FIT_SNR	NSCAN	JSCAN	INIT_SNR	FIT
1	2976.66000	2977.05900	0.001945525	205	257.00	2.392300	977.444062	1			
						1	1251.597	977.444			
2	2983.20000	2983.50000	0.001945525	154	257.00	2.392300	996.888659	1			
						1	1481.987	996.889			
3	2986.45000	2986.85000	0.001945525	205	257.00	2.392300	673.529970	1			
						1	1495.984	673.530			

FITRMS	CHI_2_Y	DOFS_ALL	DOFS_TRG	DOFS_TPR	ITER	MAX_ITER	CONVERGED	DIVWARN
0.120370	0.986385	15.676	1.915	0.000	5	25	T F	

sfit4 ERROR SUMMARY

Primary gas	=	C2H6
Total column amount	=	1.96177E+16 [molecules cm ⁻²]
DOFs (total column)	=	1.915
Smoothing error (Ss)	=	1.239 [%]
Measurement error (Sm)	=	1.657 [%]
Interference error (retrieved params)	=	0.316 [%]
Interference error (interfering spcs)	=	0.262 [%]
Total random error	=	2.400 [%]
Total systematic error	=	13.073 [%]
Total random uncertainty	=	4.709E+14 [molecules cm ⁻²]
Total systematic uncertainty	=	2.565E+15 [molecules cm ⁻²]
Total random uncertainty retrieval_parameters	=	6.192E+13 [molecules cm ⁻²]
Total random uncertainty temperature	=	1.768E+14 [molecules cm ⁻²]
Total random uncertainty sza	=	2.911E+14 [molecules cm ⁻²]
Total random uncertainty curvature	=	1.028E+13 [molecules cm ⁻²]
Total random uncertainty measurement	=	3.250E+14 [molecules cm ⁻²]
Total random uncertainty interfering_species	=	5.131E+13 [molecules cm ⁻²]
Total systematic uncertainty linetair_c2h6	=	2.223E+13 [molecules cm ⁻²]
Total systematic uncertainty temperature	=	3.008E+14 [molecules cm ⁻²]
Total systematic uncertainty apod_fcn	=	1.710E+12 [molecules cm ⁻²]
Total systematic uncertainty phase_fcn	=	8.465E+11 [molecules cm ⁻²]
Total systematic uncertainty lineint_c2h6	=	2.458E+15 [molecules cm ⁻²]
Total systematic uncertainty smoothing	=	2.430E+14 [molecules cm ⁻²]
Total systematic uncertainty linepair_c2h6	=	6.658E+14 [molecules cm ⁻²]
Total systematic uncertainty omega	=	1.279E+10 [molecules cm ⁻²]