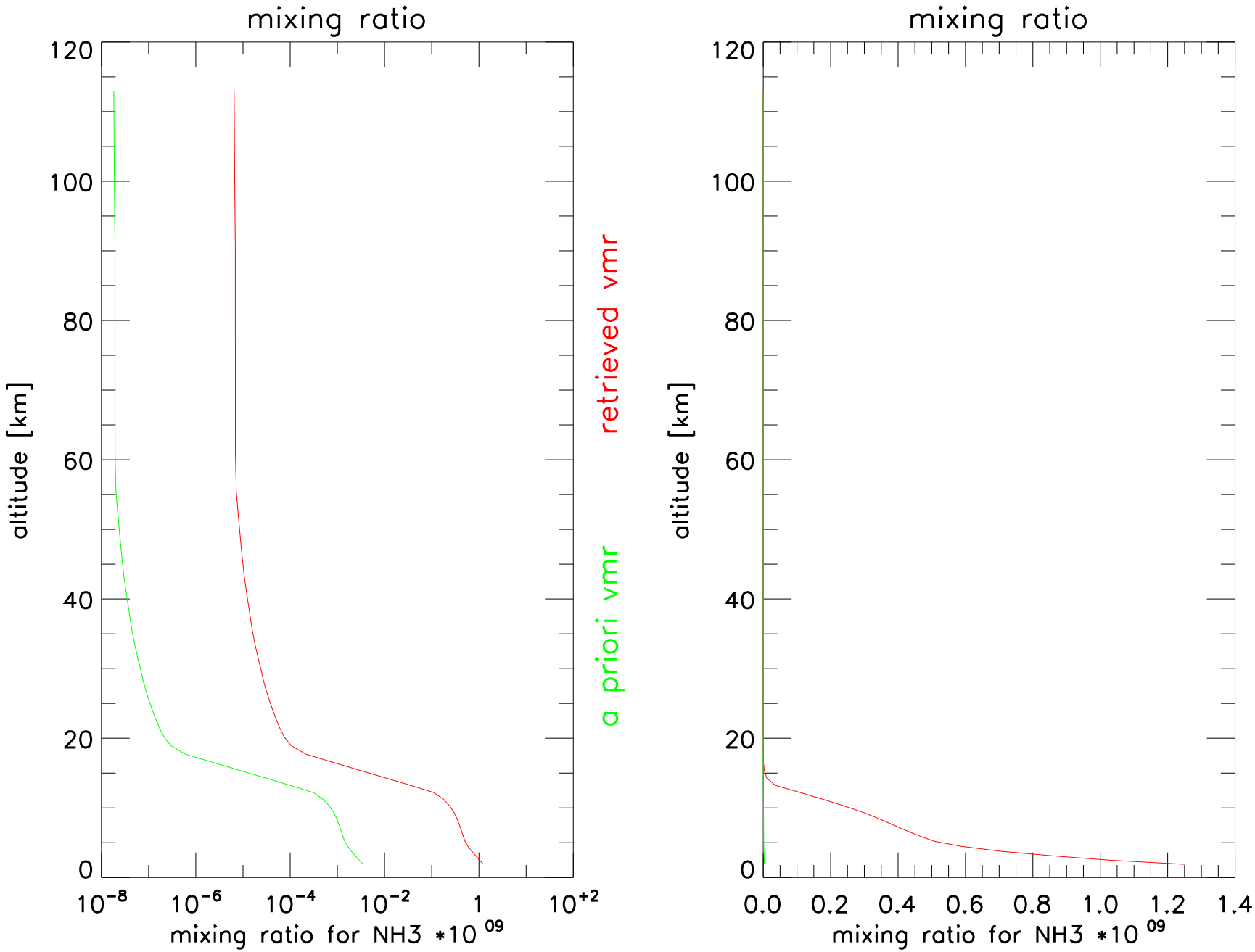
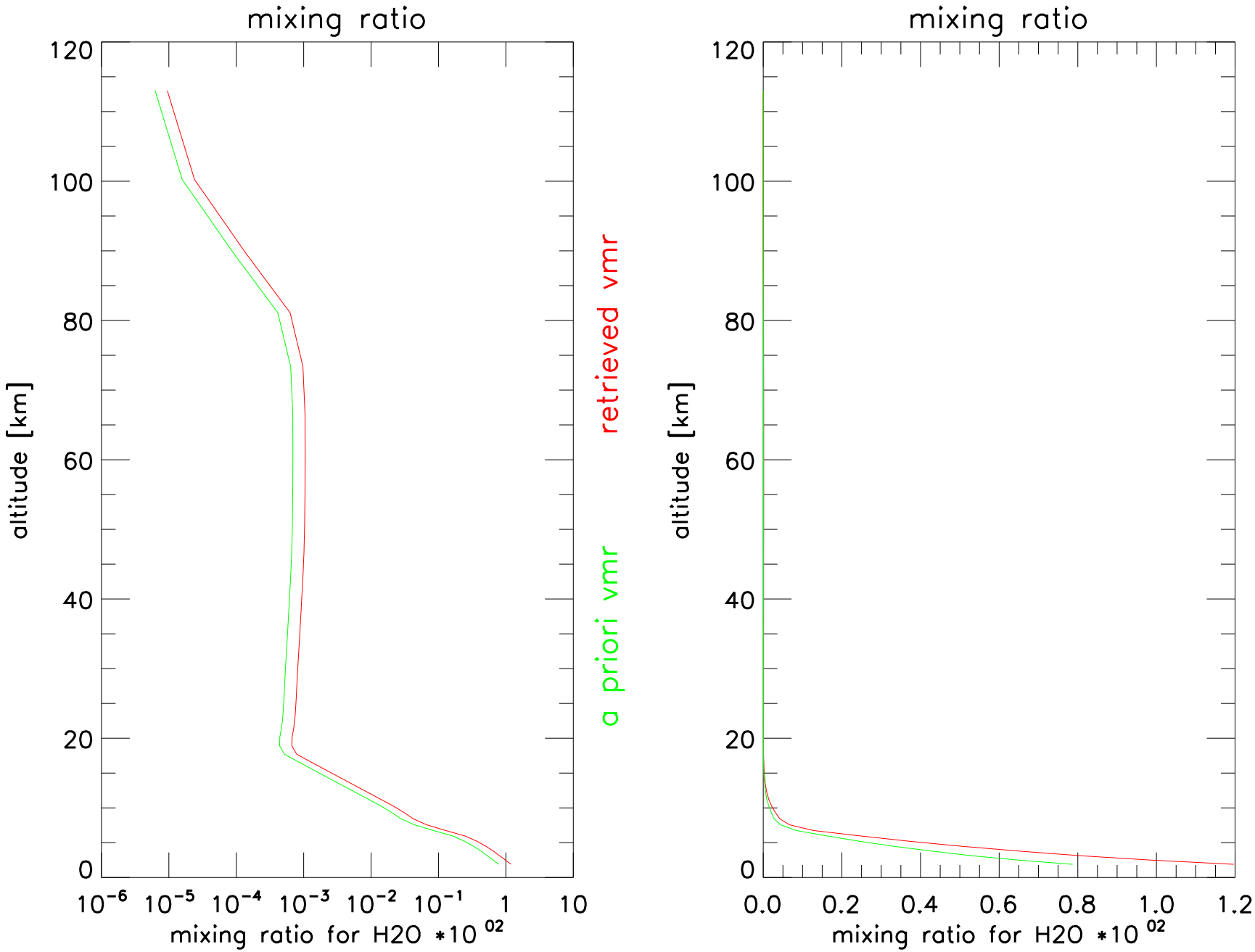
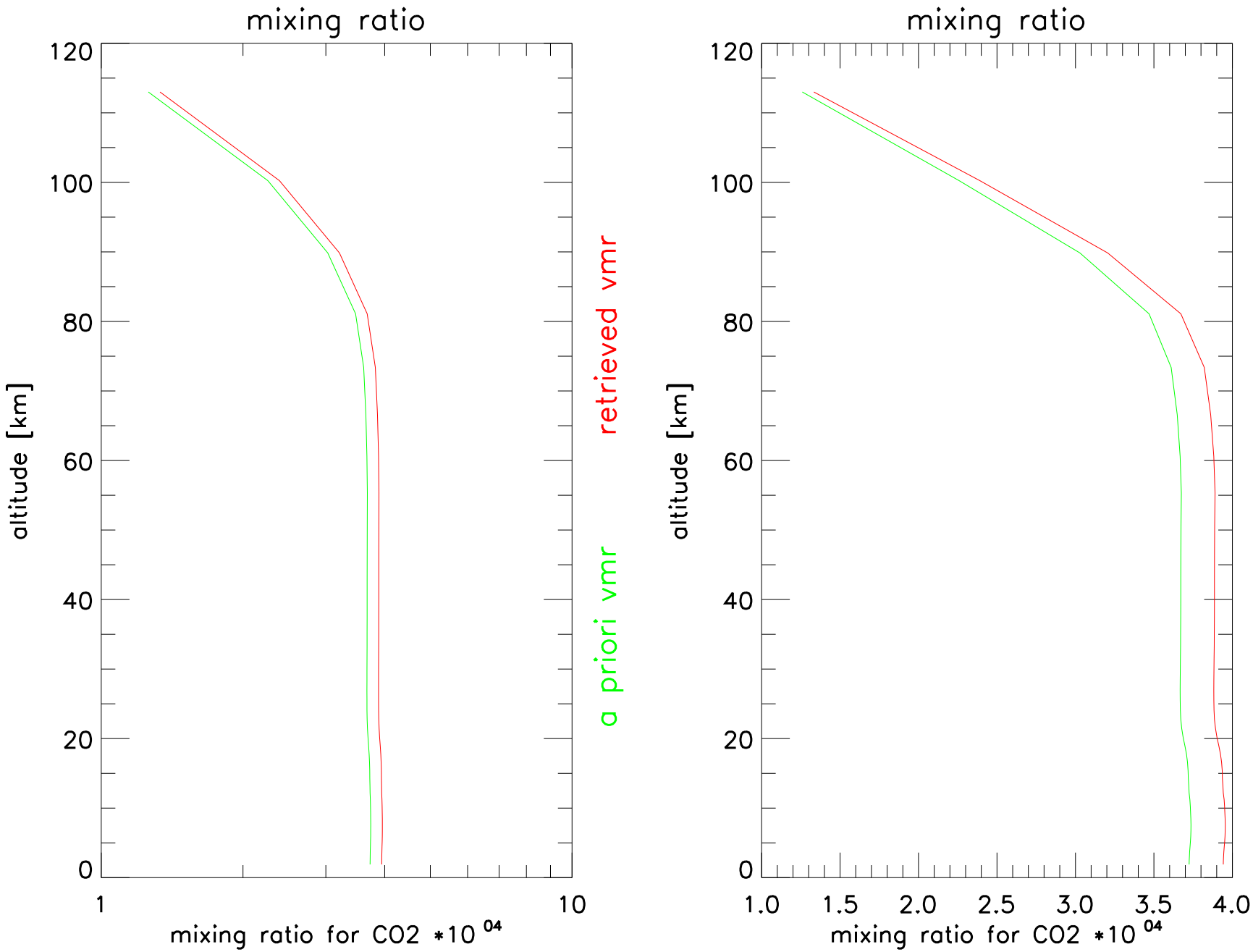
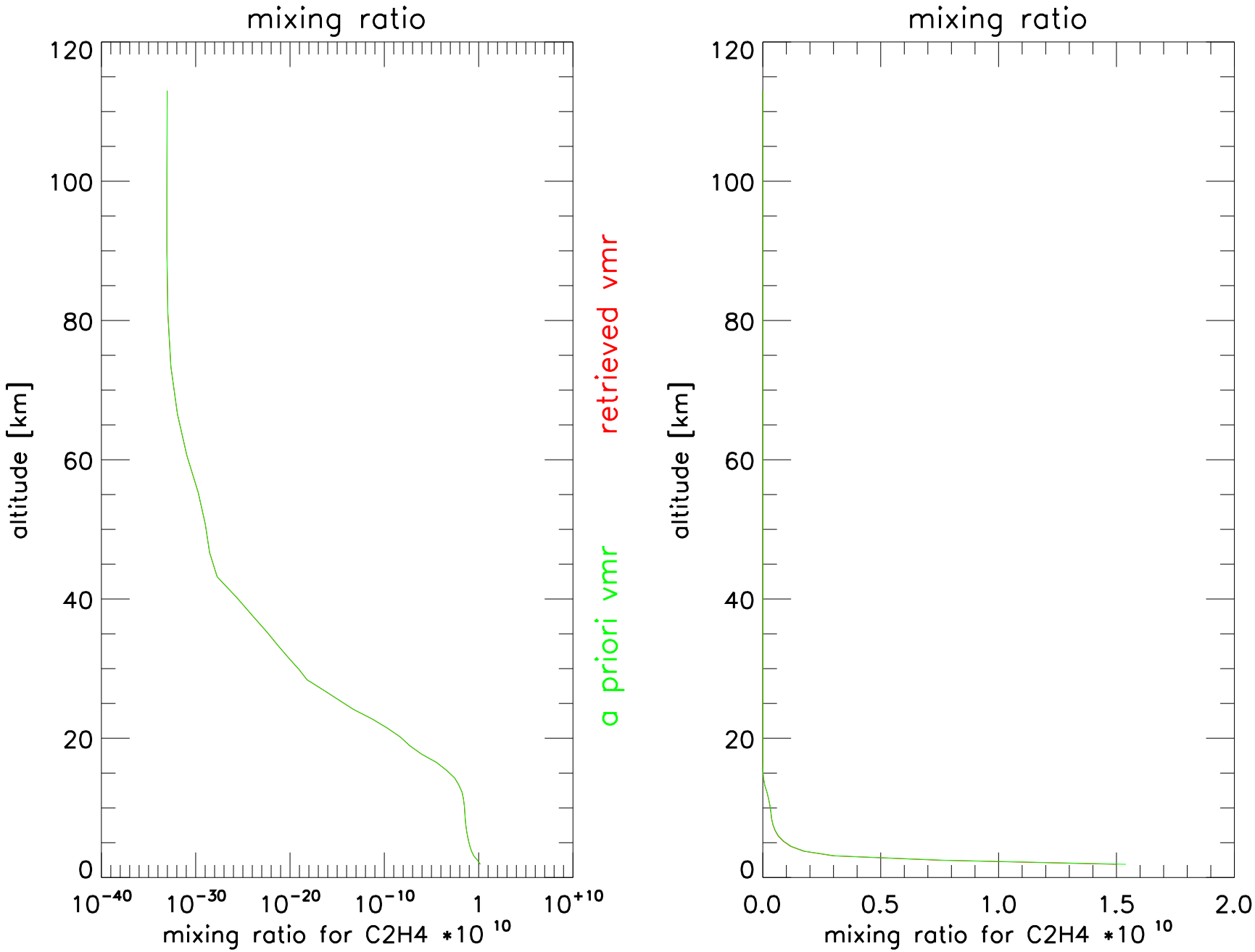

mixing ratio
altitude [km]
120
100
80
60
40
20
0
10^-8
10^-6
10^-4
10^-2
1
10^+2
mixing ratio for NH3 *10^09
retrieved vmr
a priori vmr
mixing ratio
altitude [km]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
mixing ratio for NH3 *10^09

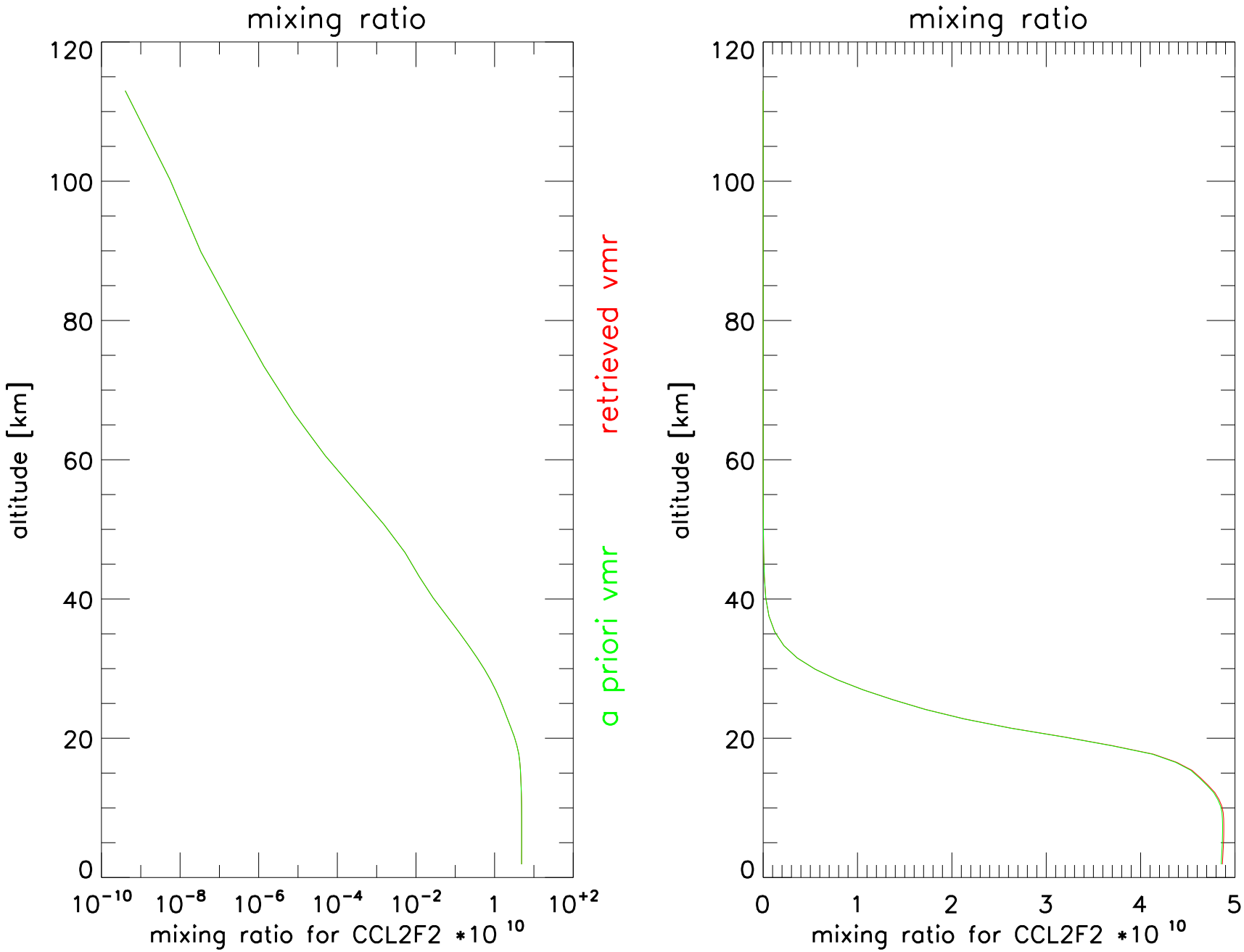
mixing ratio
altitude [km]
mixing ratio for O3 *10^06
0
20
40
60
80
100
120
10^-2
10^-1
1
10
a priori vmr
retrieved vmr

mixing ratio
altitude [km]
mixing ratio for O3 *10^06
0
20
40
60
80
100
120
0
2
4
6
8
10


mixing ratio
altitude [km]
120
100
80
60
40
20
0
10⁻⁶ 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 1 10
mixing ratio for H20 *10 02
retrieved vmr
a priori vmr
mixing ratio
altitude [km]
120
100
80
60
40
20
0
0.0 0.2 0.4 0.6 0.8 1.0 1.2
mixing ratio for H20 *10 02


mixing ratio
altitude [km]
120
100
80
60
40
20
0
1
10
mixing ratio for CO2 *10 04
retrieved vmr
a priori vmr
mixing ratio
altitude [km]
120
100
80
60
40
20
0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
mixing ratio for CO2 *10 04


mixing ratio
120
100
80
60
40
20
0
altitude [km]
10^{-40}
10^{-30}
10^{-20}
10^{-10}
1
10^{+10}
mixing ratio for C2H4 *10 10
a priori vmr
retrieved vmr
mixing ratio
120
100
80
60
40
20
0
altitude [km]
0.0
0.5
1.0
1.5
2.0
mixing ratio for C2H4 *10 10


mixing ratio
altitude [km]
120
100
80
60
40
20
0
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
1
10^{+2}
mixing ratio for CCL2F2 *10 10
a priori vmr
retrieved vmr
mixing ratio
altitude [km]
120
100
80
60
40
20
0
0
1
2
3
4
5
mixing ratio for CCL2F2 *10 10

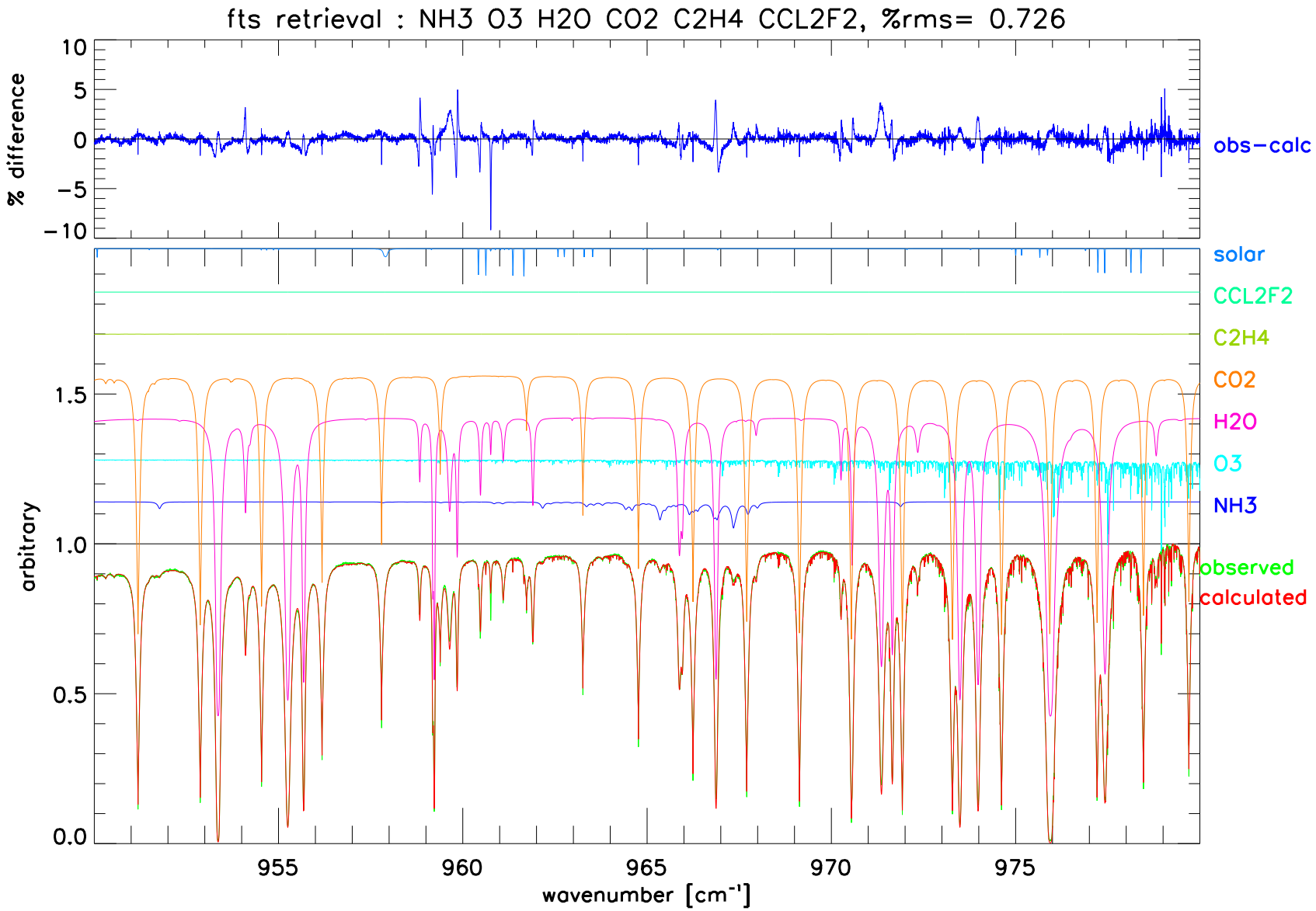
SFIT4:V.9.4.3.6:Pre-Release --

fit : 1 20140803 13:48:26UT Z:071.130 A:262.75 D:0718.0 R:0.0035 P:BX V:04.0670 E:6387

RET_ORDER	GAS_NAME	IFPRF	IFCELL	APR_COLUMN	
1	NH3	F	F	2.23205E+13	7.92481E+15
2	O3	F	F	8.44233E+18	9.94842E+18
3	H2O	F	F	3.77843E+22	5.74571E+22
4	CO2	F	F	6.65092E+21	7.03971E+21
5	C2H4	F	F	3.74890E+14	3.65621E+14
6	CCL2F2	F	F	8.13743E+15	8.15918E+15

IBAND	NUSTART	NUSTOP	SPACE	NPTSB	PMAX	FOVDIA	MEAN_FIT_SNR	NSCAN
1	950.00000	980.00000	0.003501946	8567	257.00	1.914000	111.488341	1
1	279.775	300.000	111.488					

FITRMS	CHI_2_Y	DOFS_ALL	DOFS_TRG	DOFS_TPR	ITER	MAX_ITER	CONVERGED	DIVWARN
0.896902	7.239906	8.615	1.000	0.000	7	21	T	F


fts retrieval : NH3 O3 H2O CO2 C2H4 CCL2F2, %rms= 0.726
% difference
10
5
0
−5
−10
obs−calc
solar
CCL2F2
C2H4
CO2
H2O
O3
NH3
observed
calculated
arbitrary
1.5
1.0
0.5
0.0
955
960
965
970
975
wavenumber [cm⁻¹]