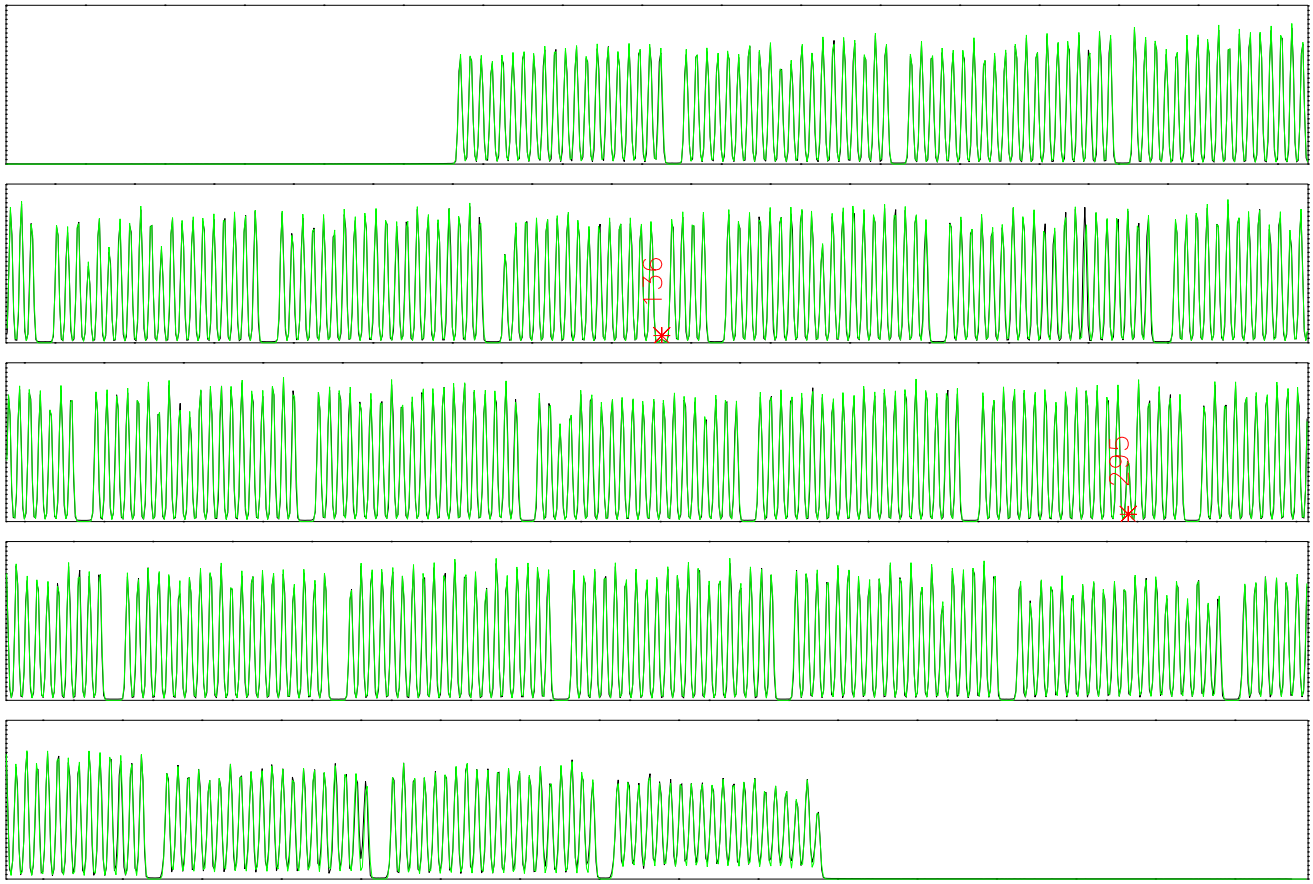
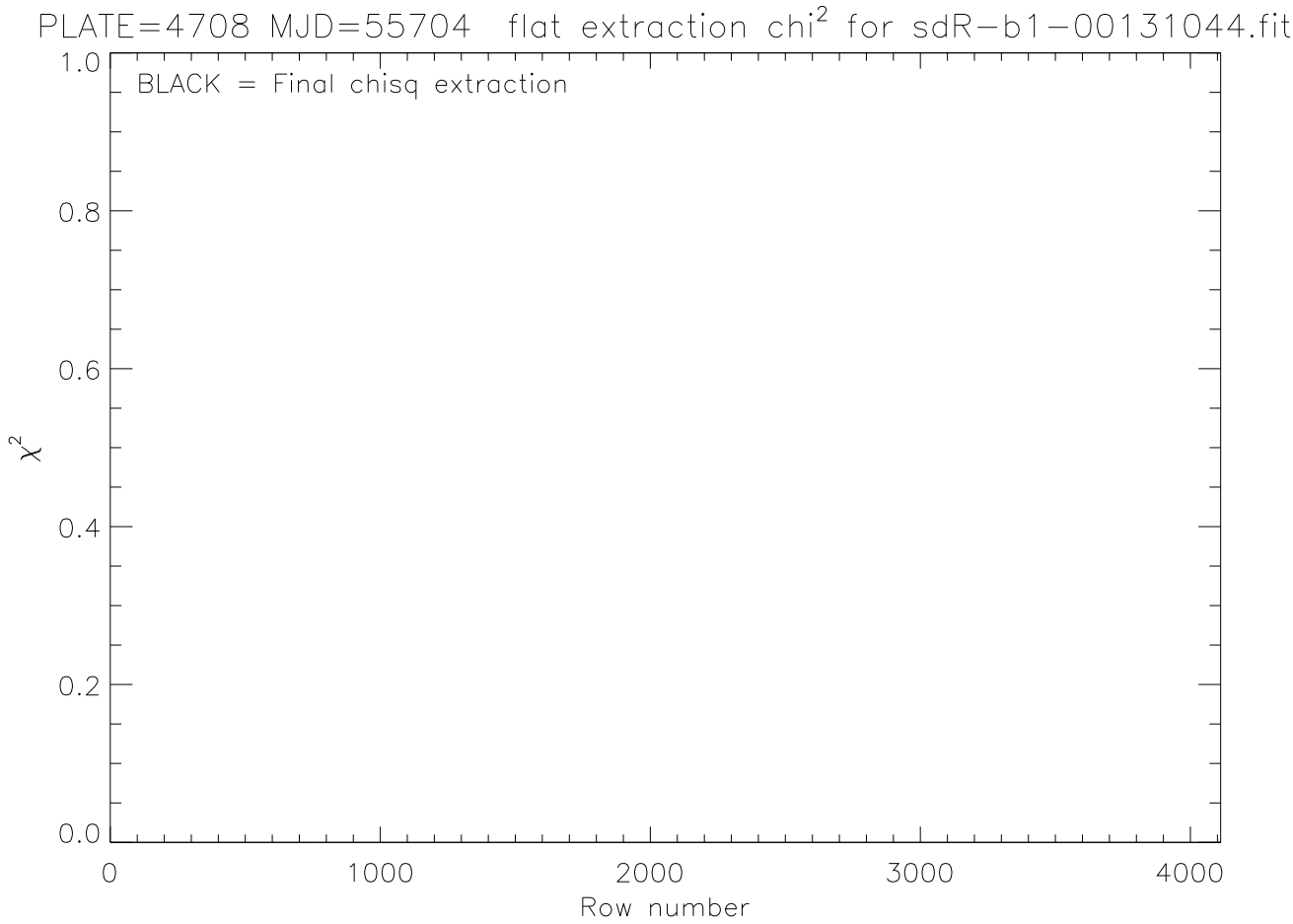
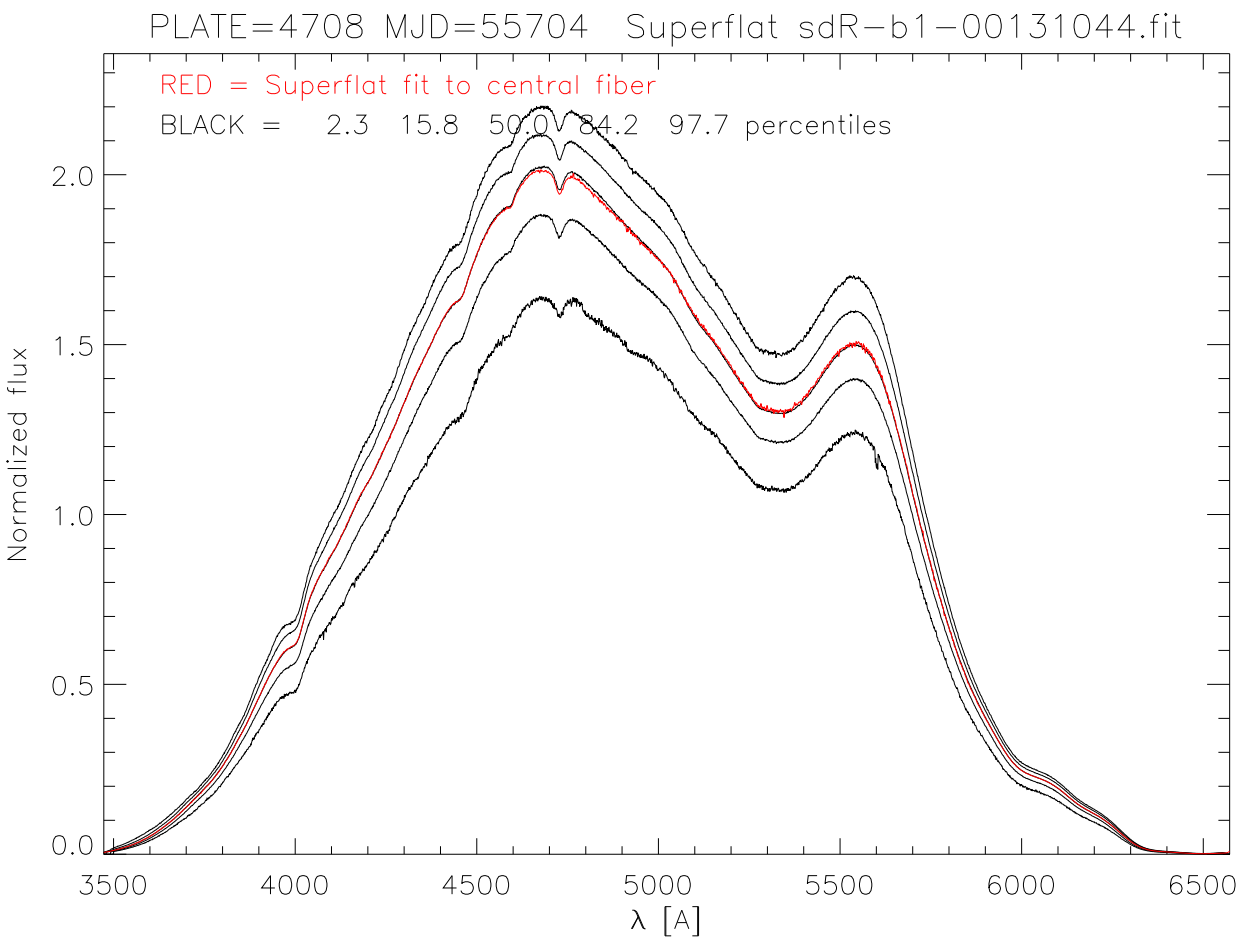
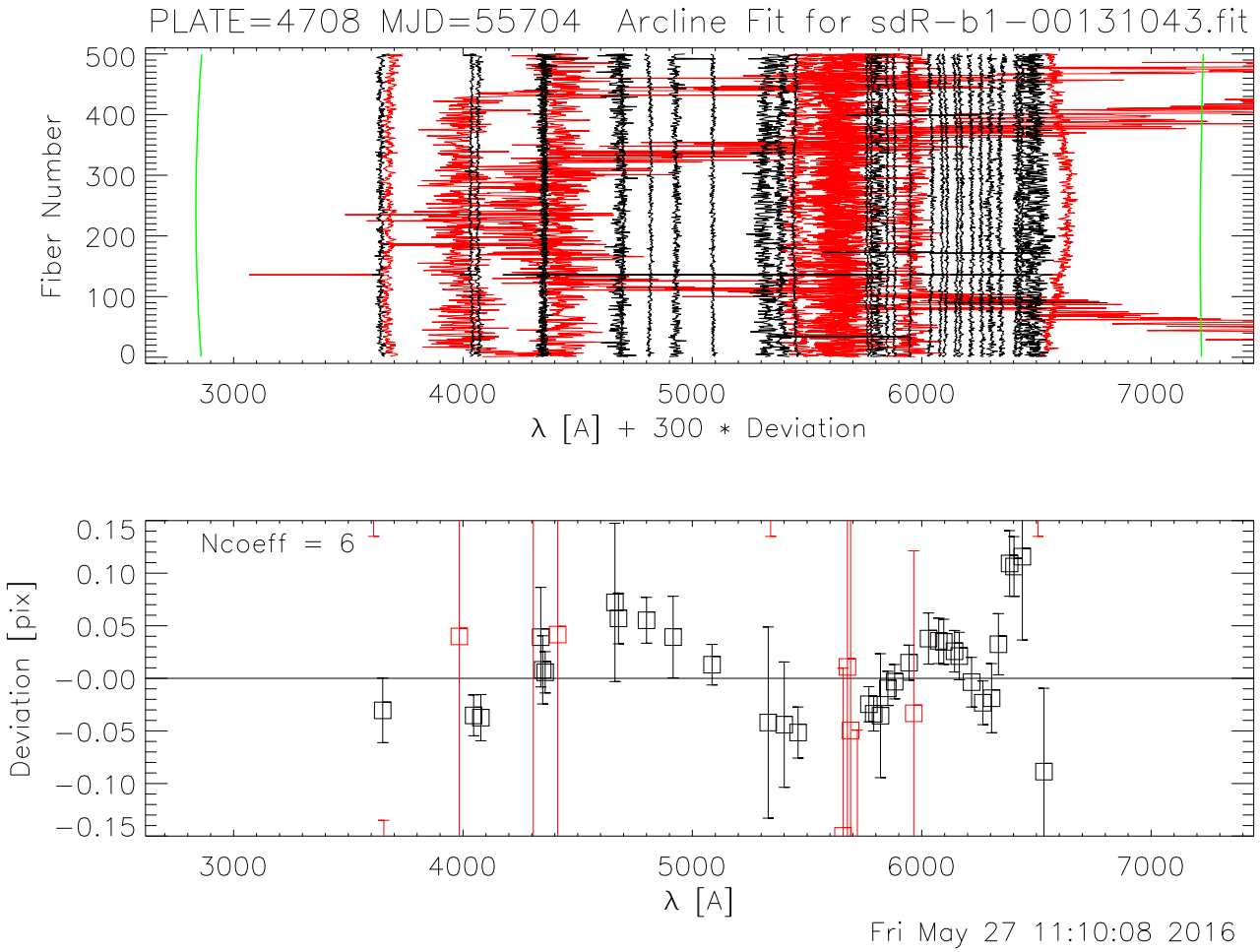
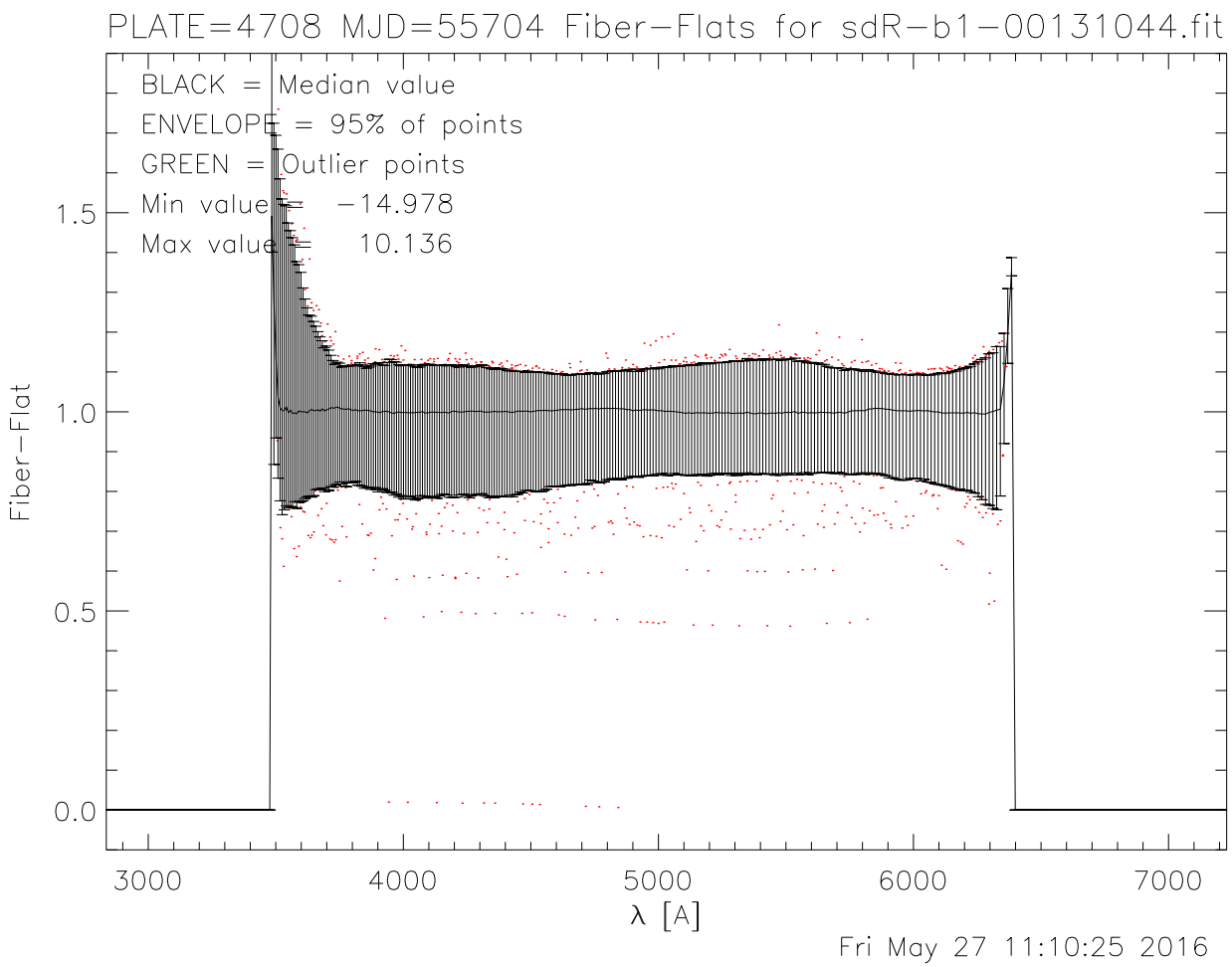
PLATE=4708 MJD=55704 Traces sdR-b1-00131044.fit

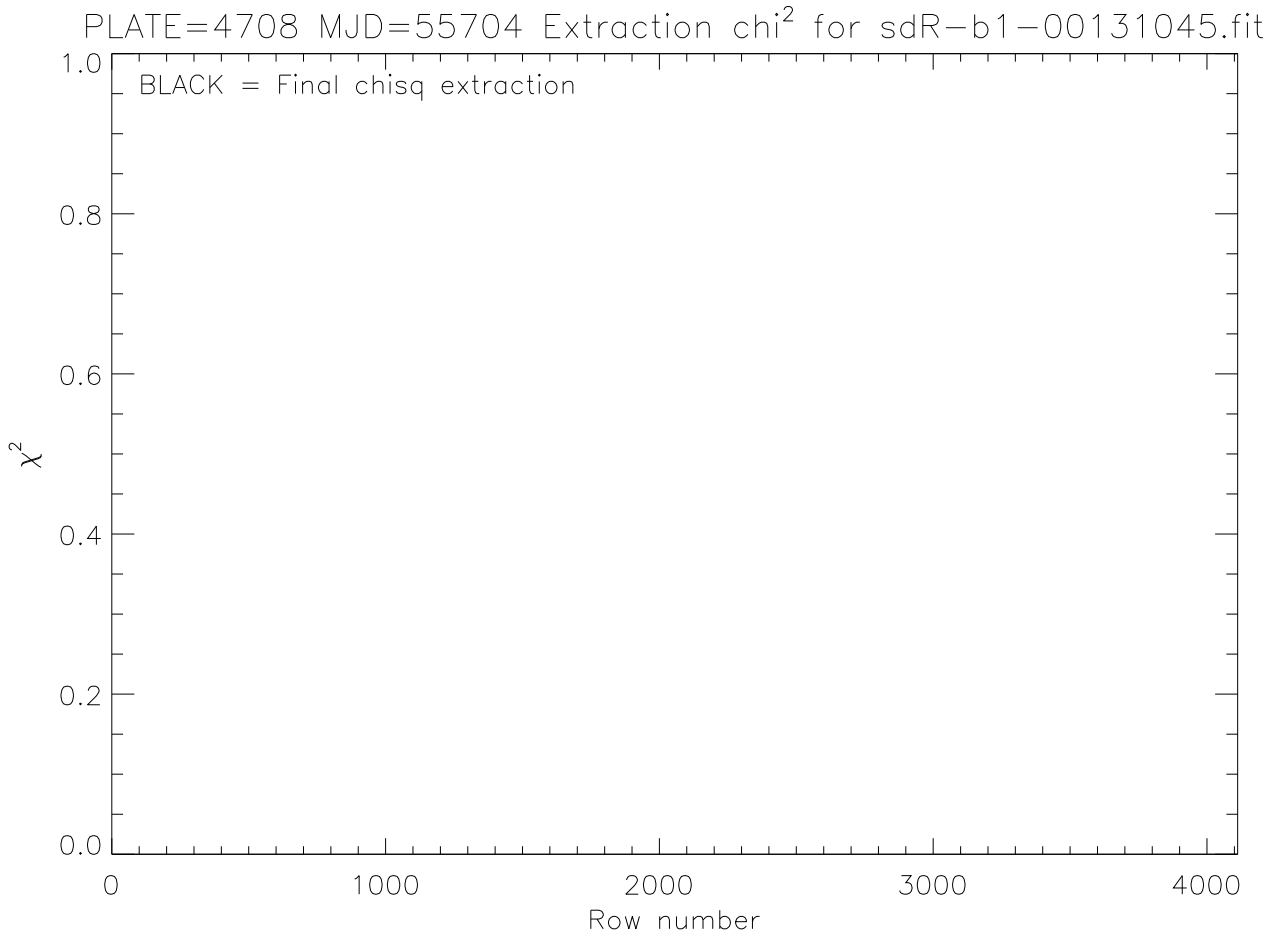


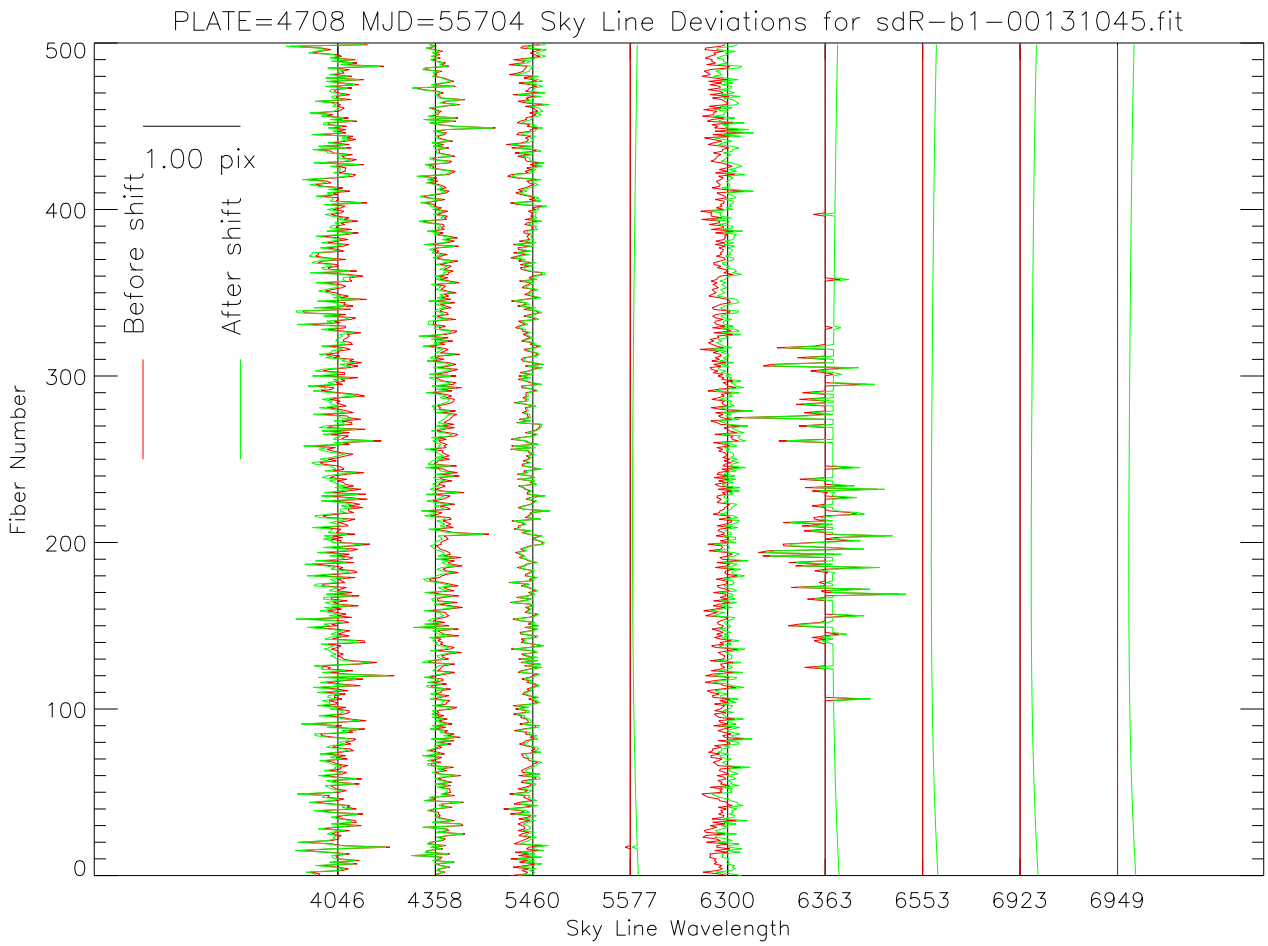

PLATE=4708 MJD=55704 flat extraction chi^2 for sdR−b1−00131044.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

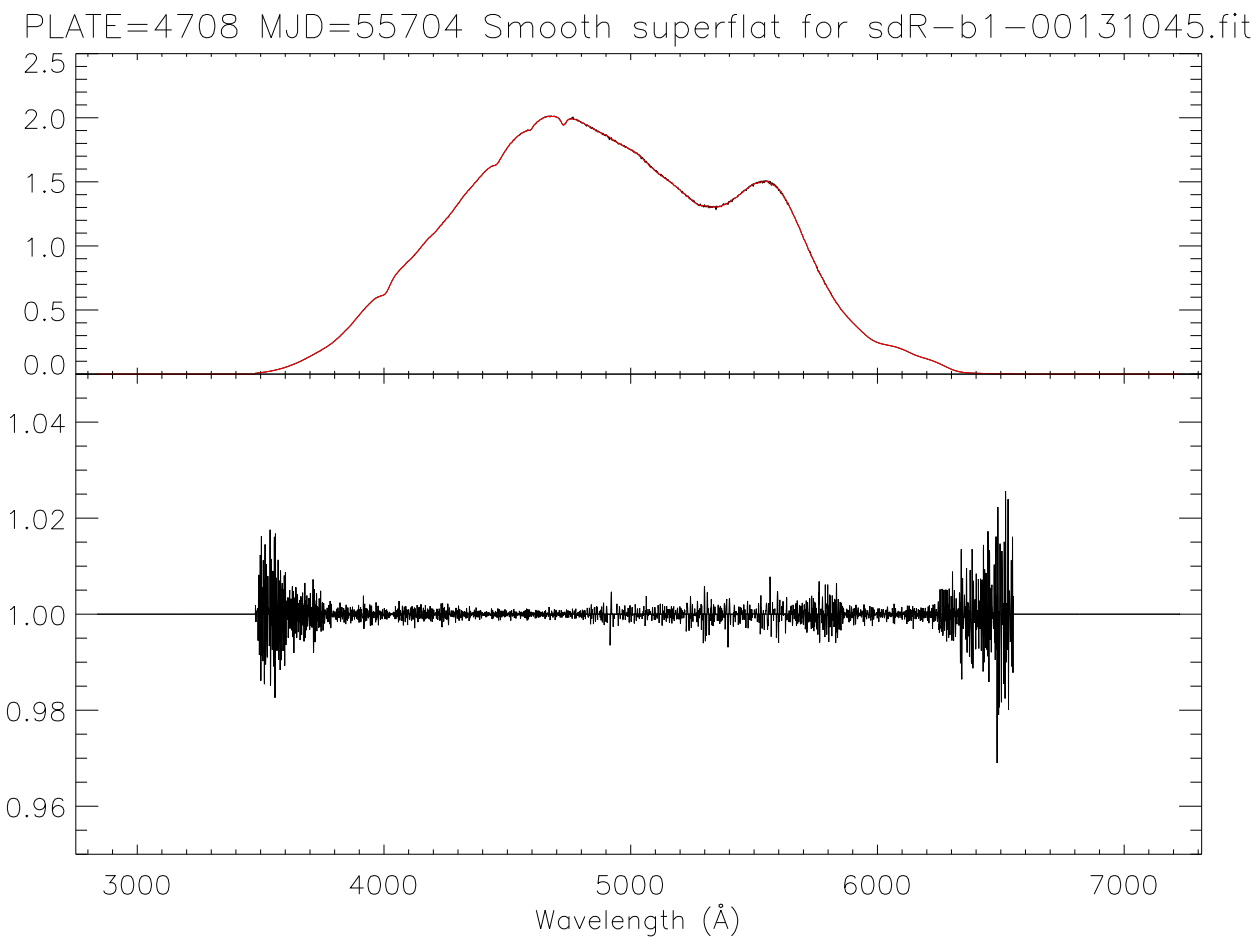

PLATE=4708 MJD=55704 Superflat sdR-b1-00131044.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

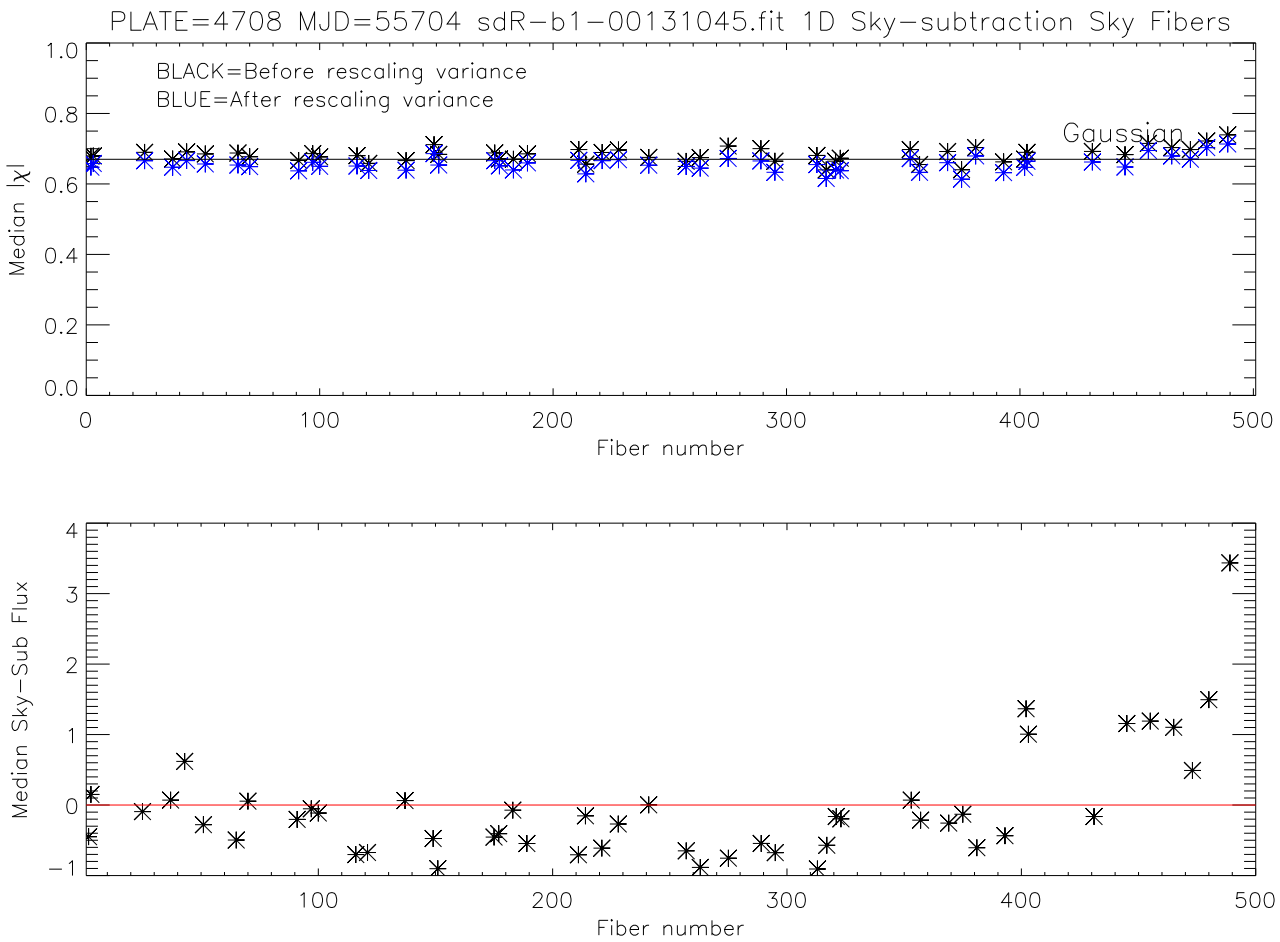

PLATE=4708 MJD=55704 Arcline Fit for sdR-b1-00131043.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:10:08 2016

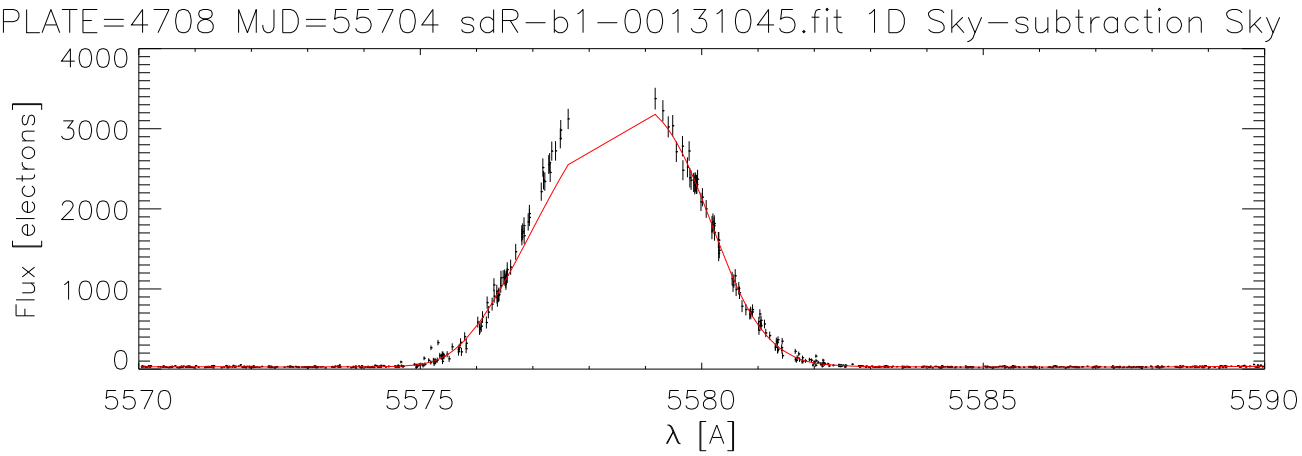

PLATE=4708 MJD=55704 Fiber-Flats for sdR-b1-00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -14.978
Max value = 10.136
Fiber-Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:10:25 2016

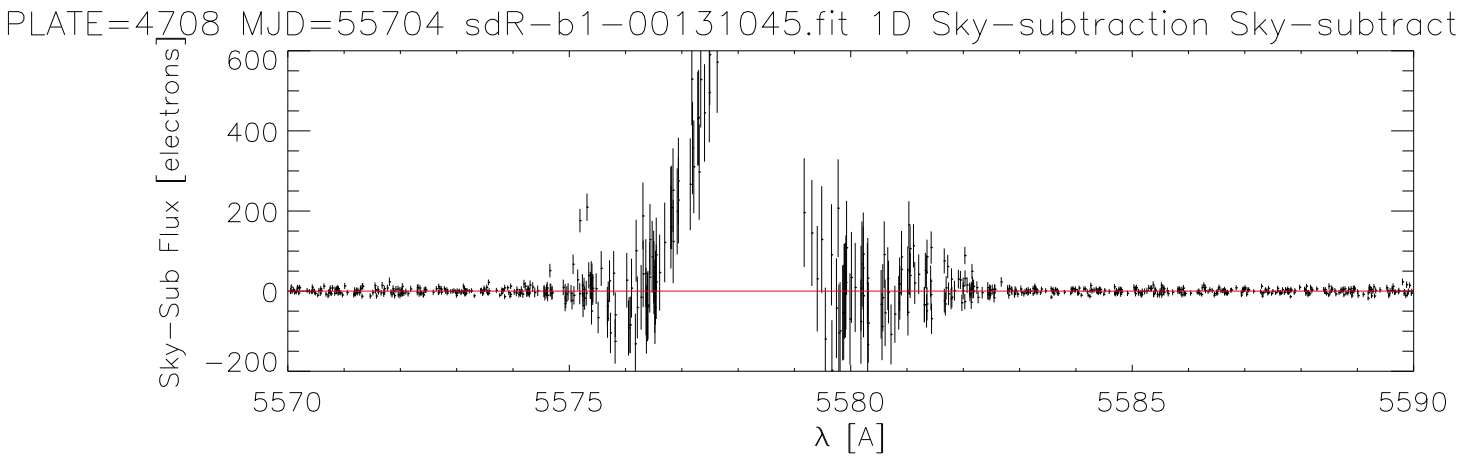

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−b1−00131045.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b1-00131045.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

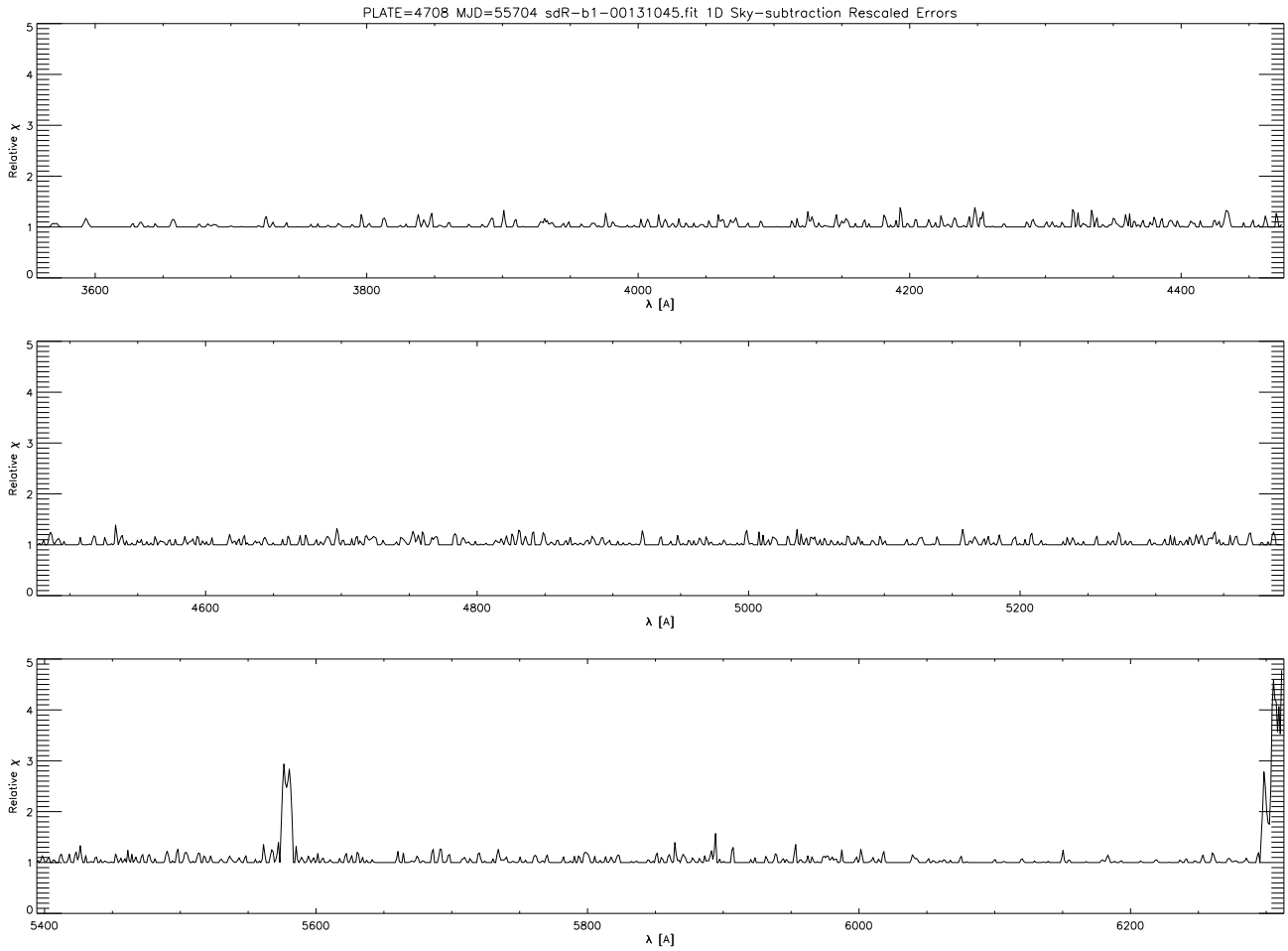

PLATE=4708 MJD=55704 Smooth superflat for sdR-b1-00131045.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

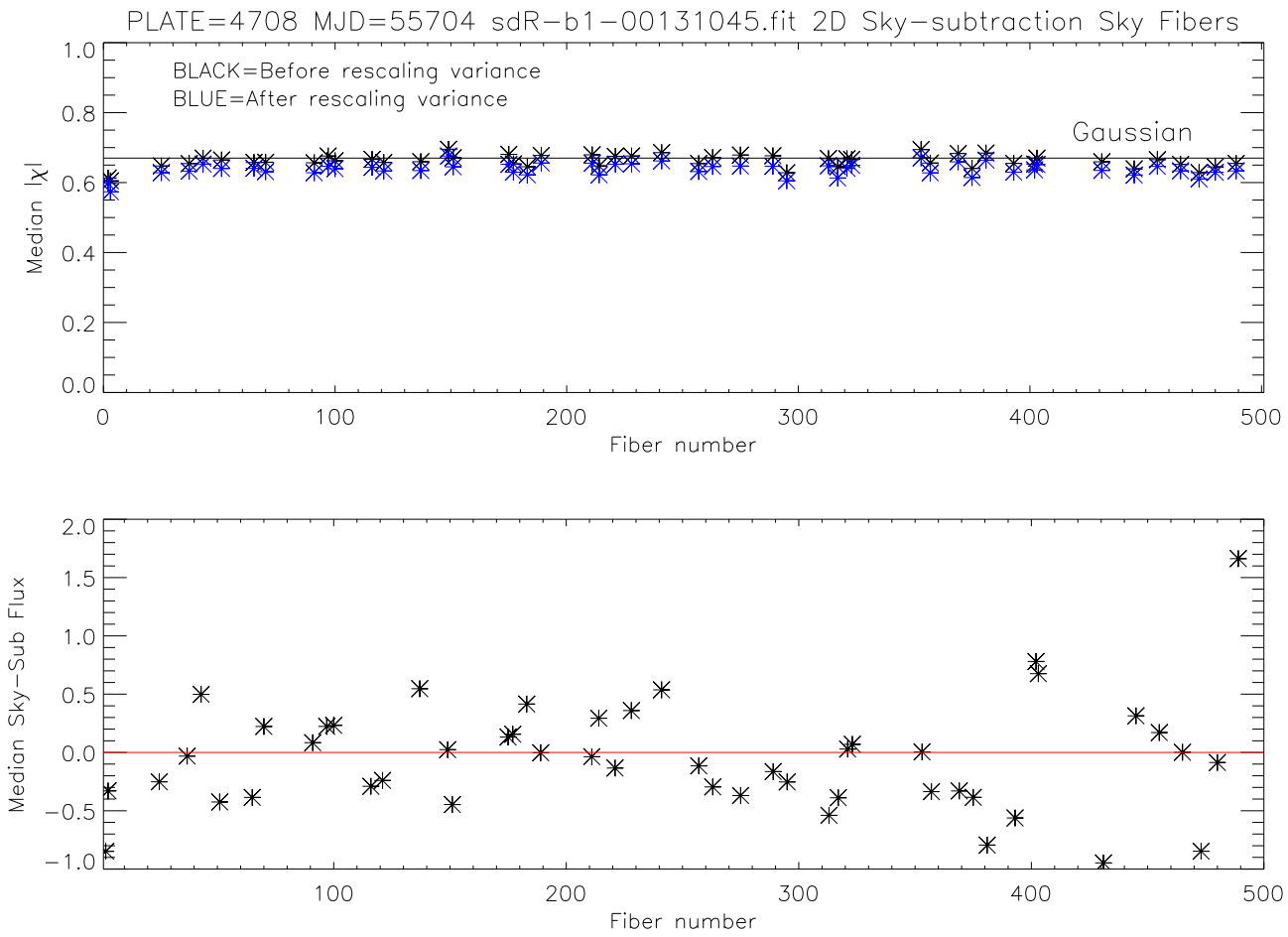

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

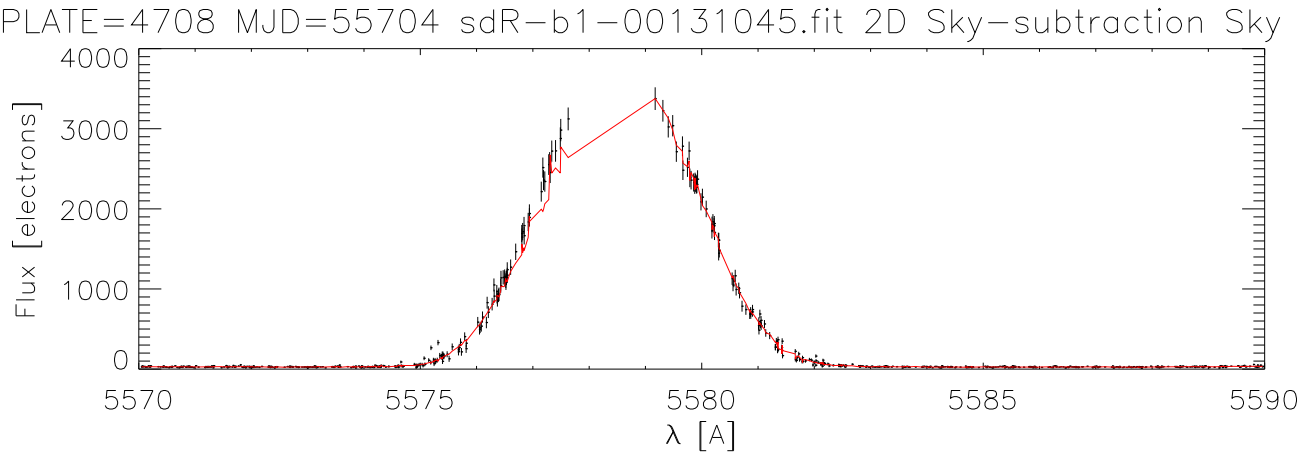

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

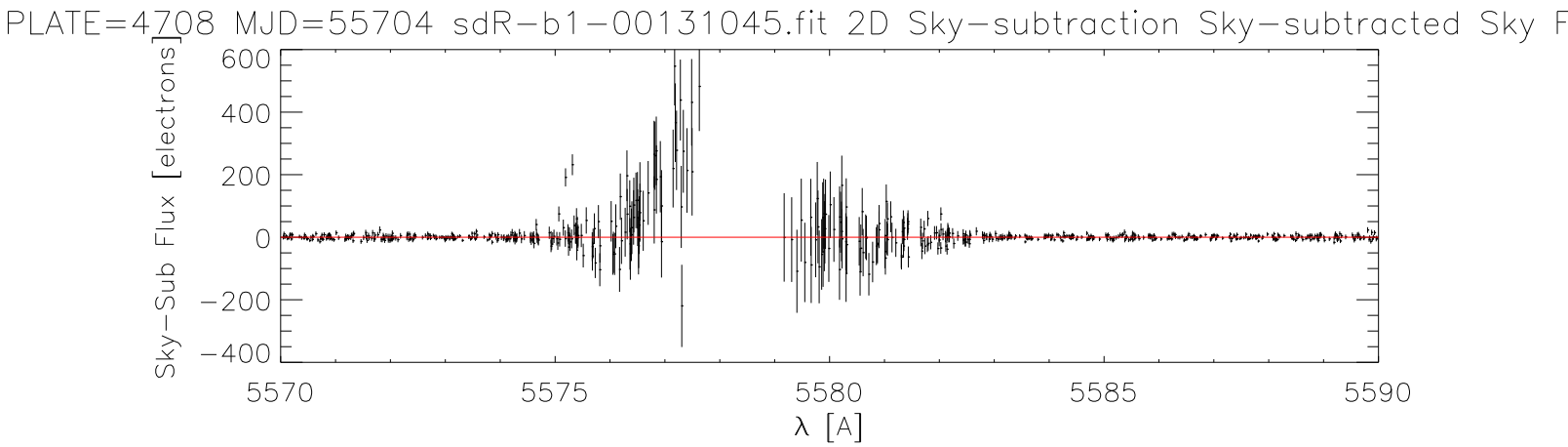

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

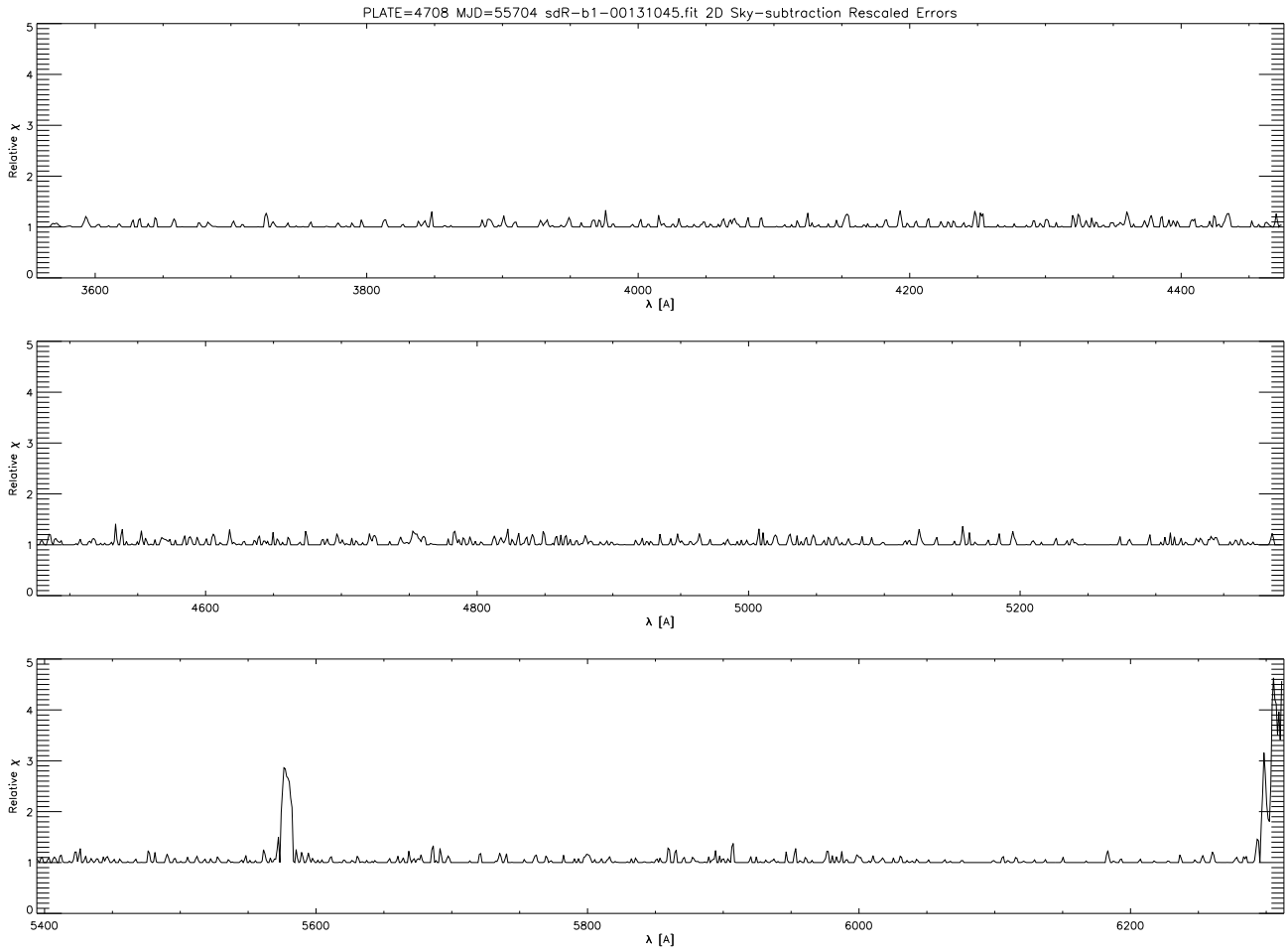


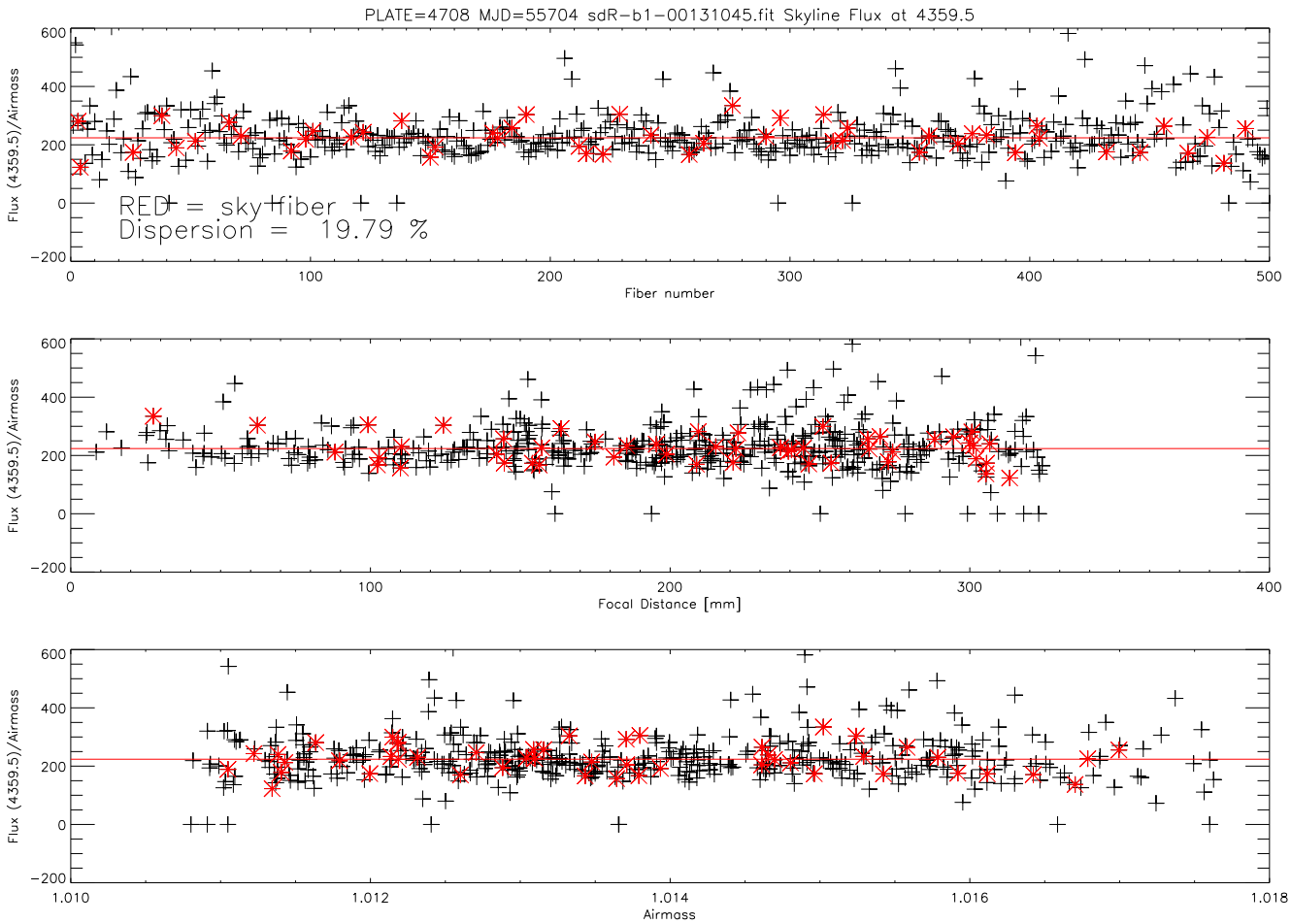

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

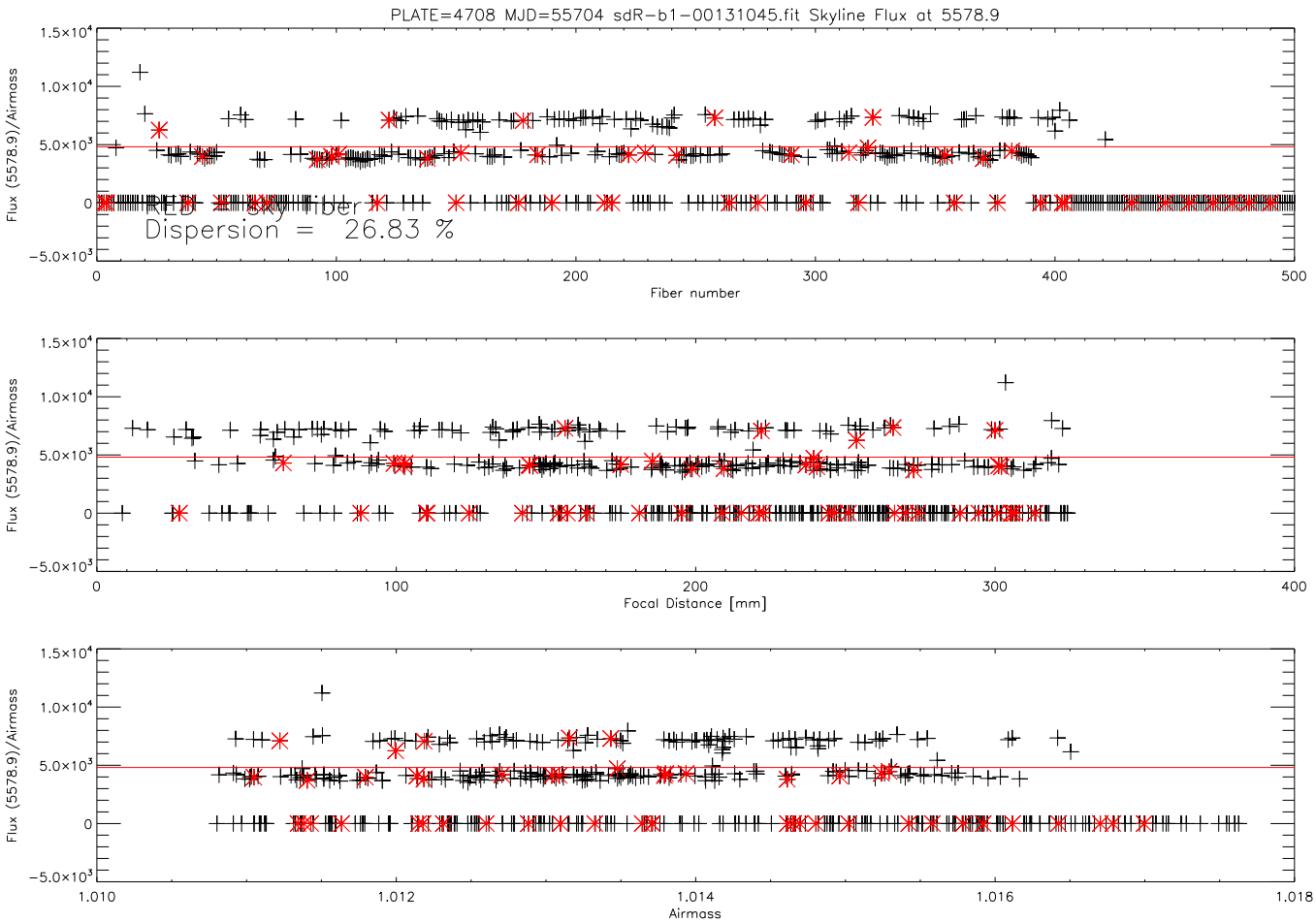

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

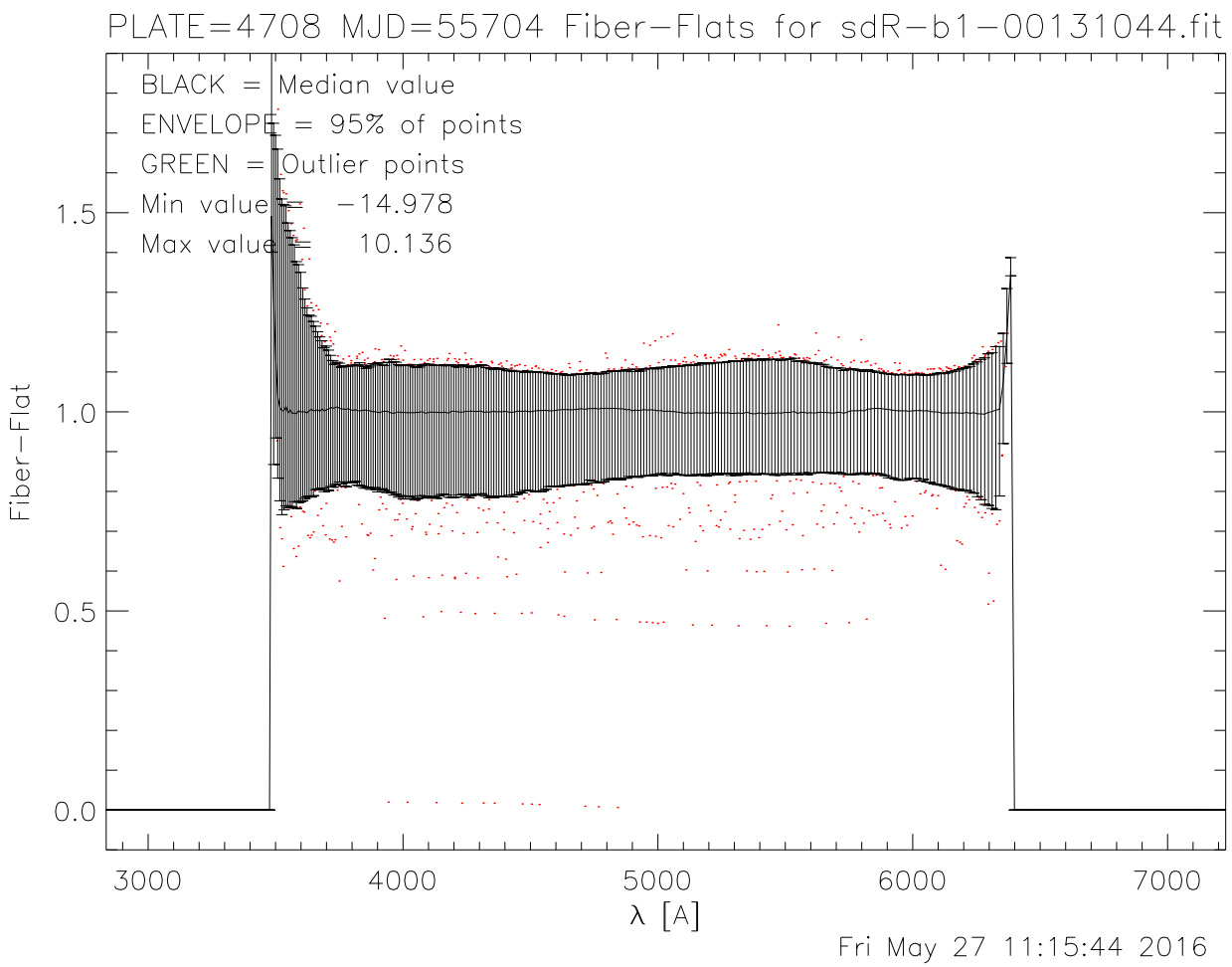

PLATE=4708 MJD=55704 sdR-b1-00131045.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

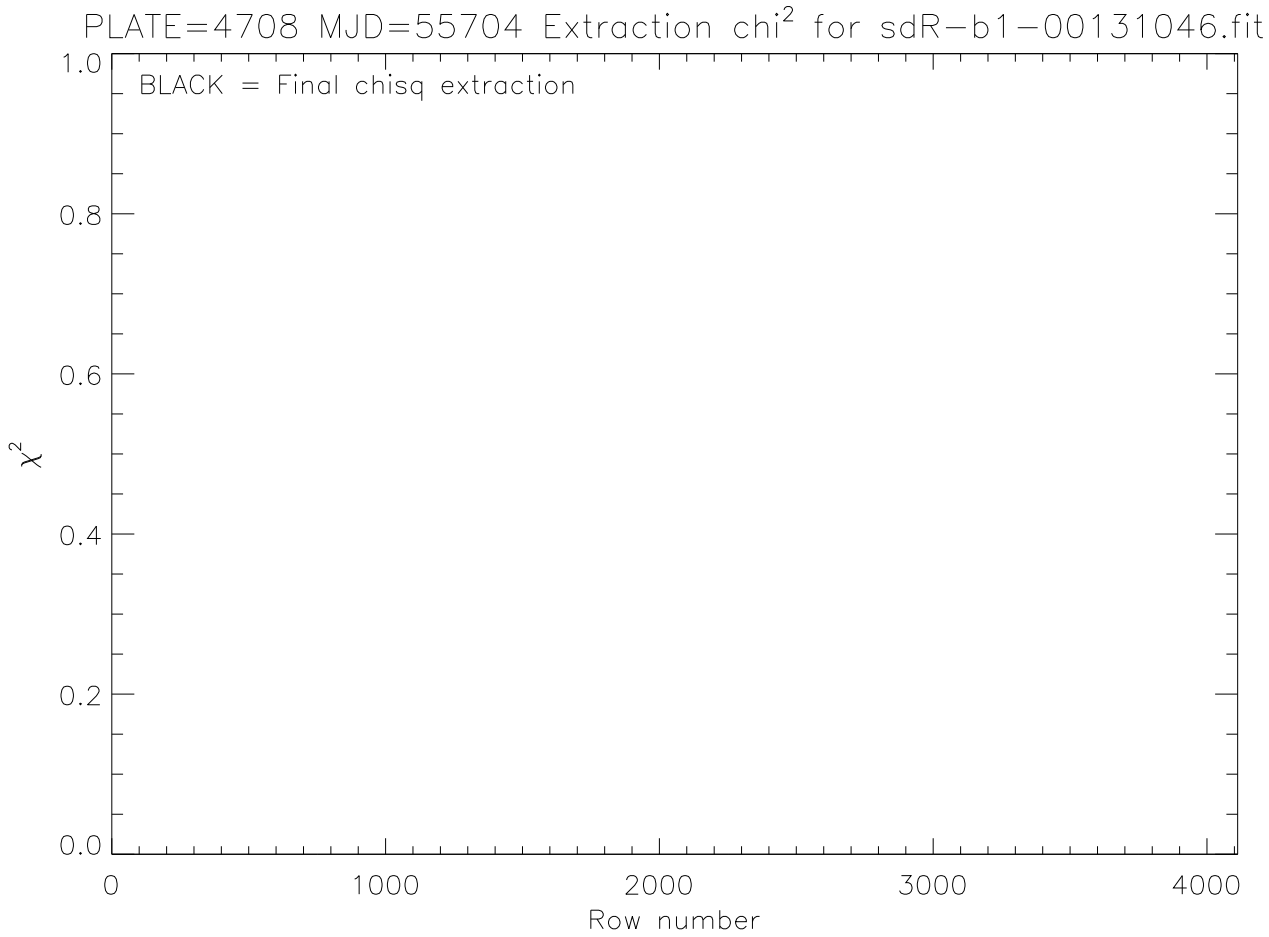
Number of sky fibers = 49

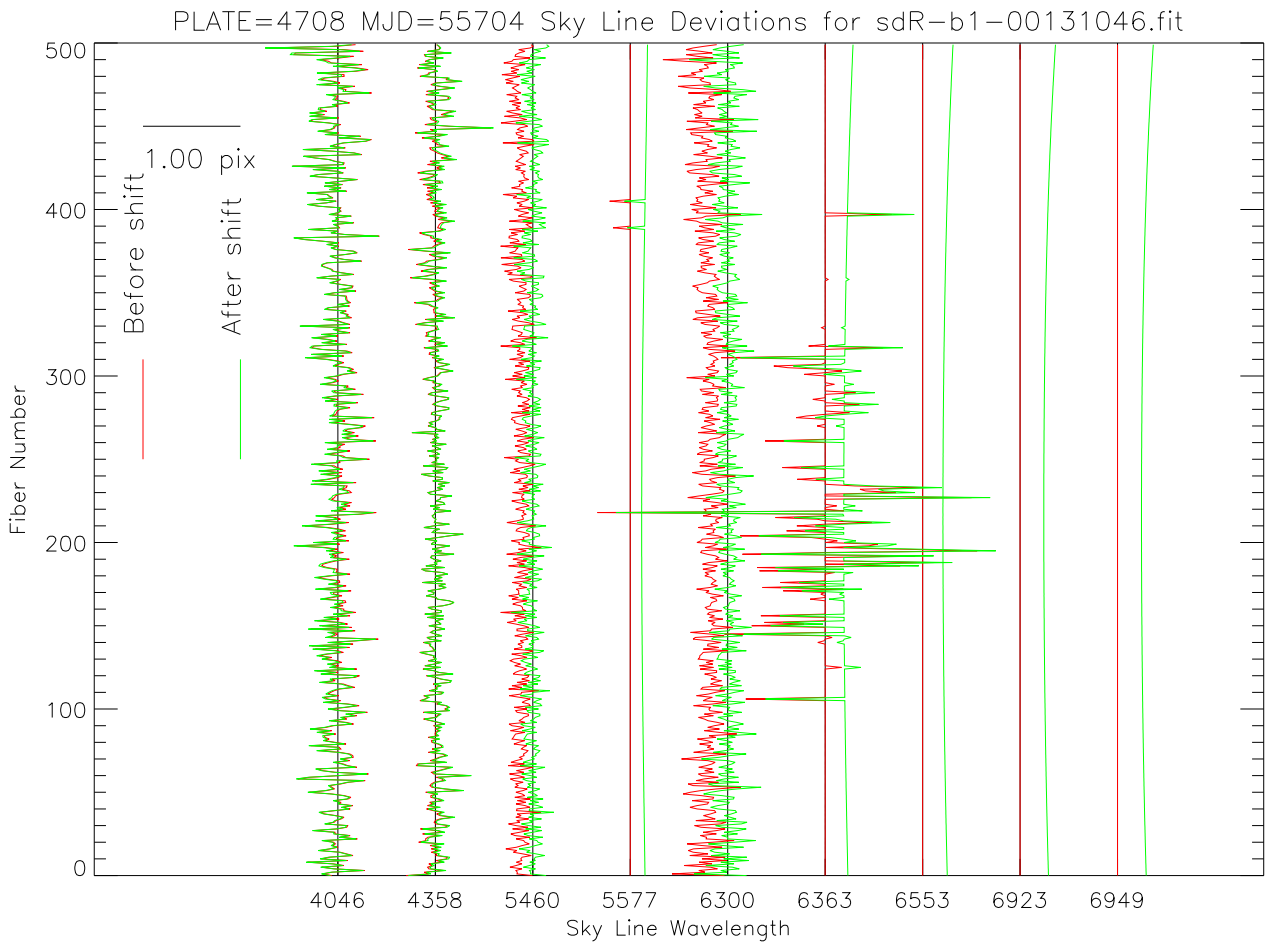


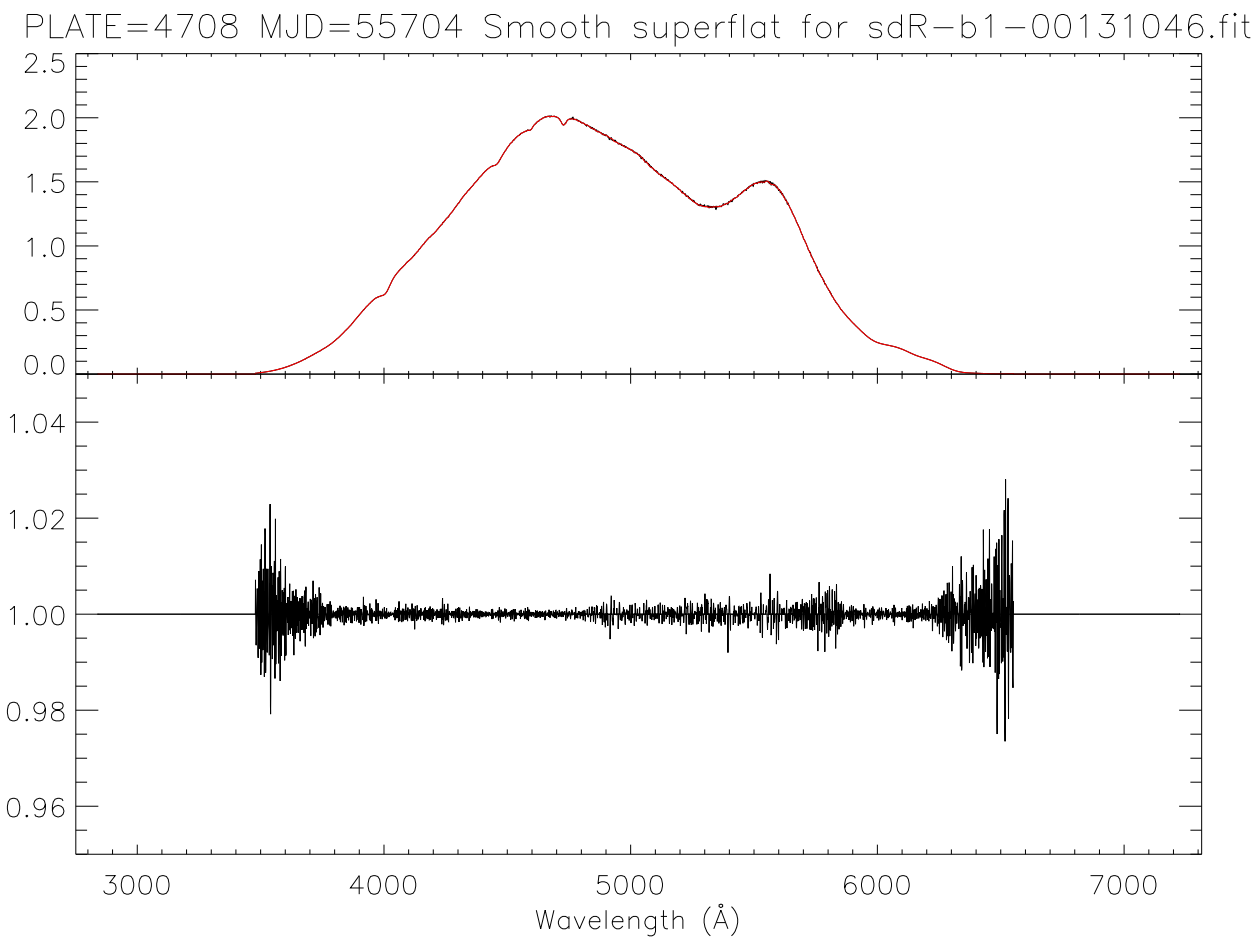

PLATE=4708 MJD=55704 sdR-b1-00131045.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 19.79 %
Fiber number
Focal Distance [mm]
Airmass

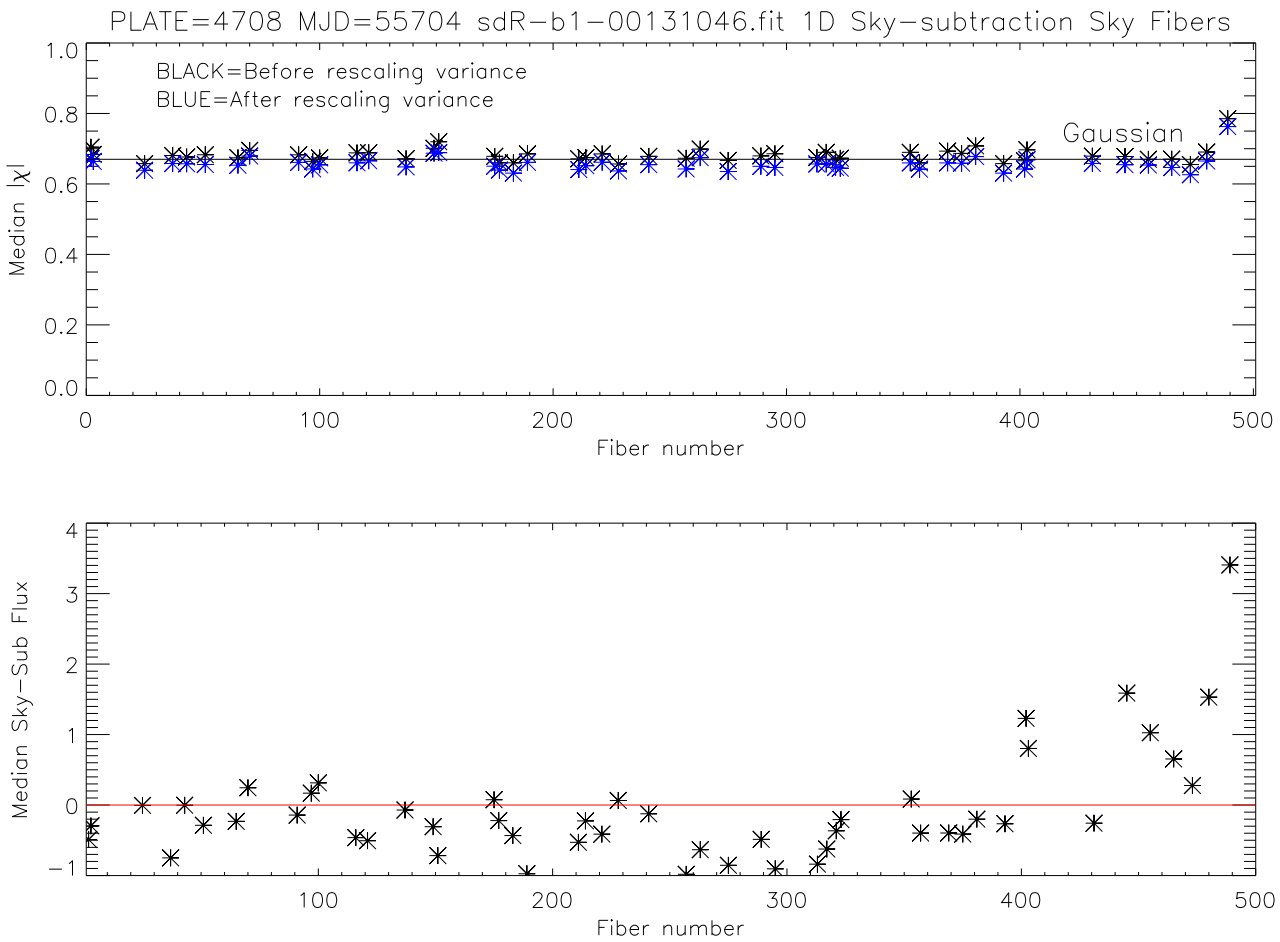

PLATE=4708 MJD=55704 sdR-b1-00131045.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Red sky fiber
Dispersion = 26.83 %
Fiber number
Focal Distance [mm]
Airmass

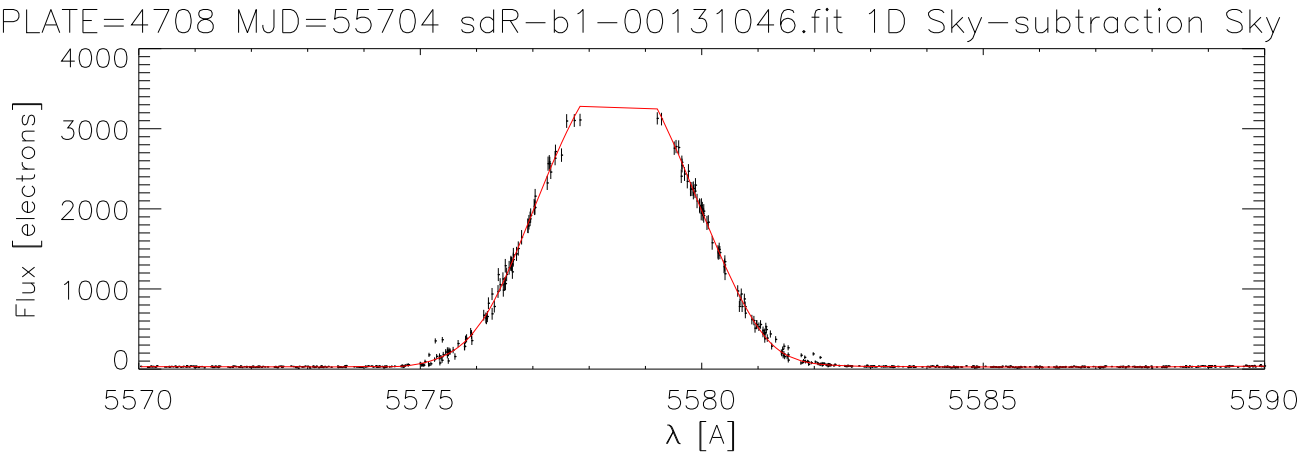

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.978
Max value = 10.136
Fiber−Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:15:44 2016

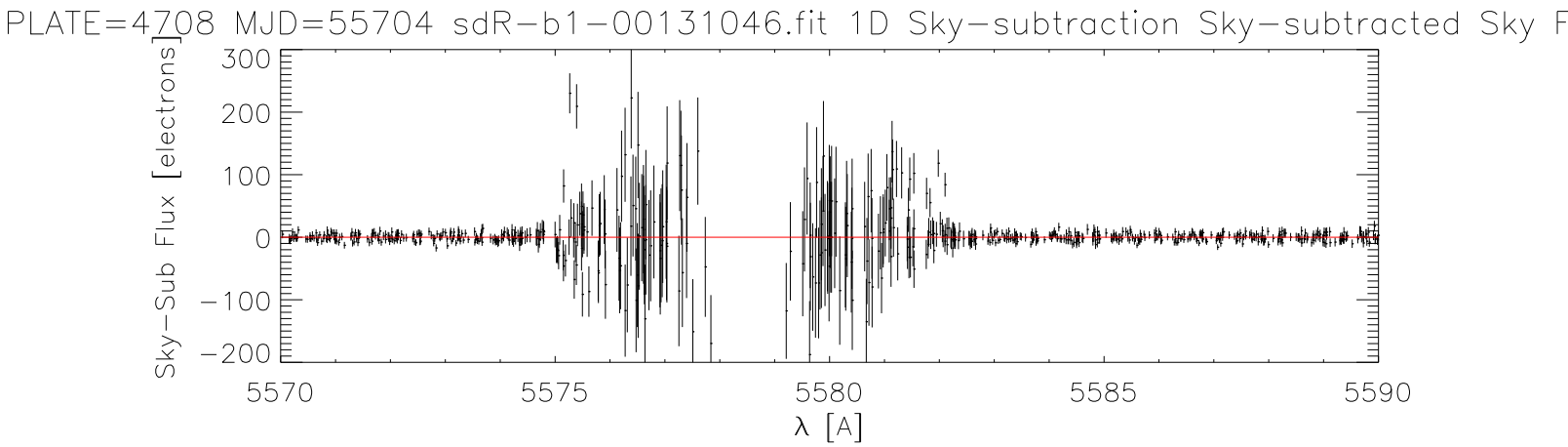

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−b1−00131046.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b1-00131046.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

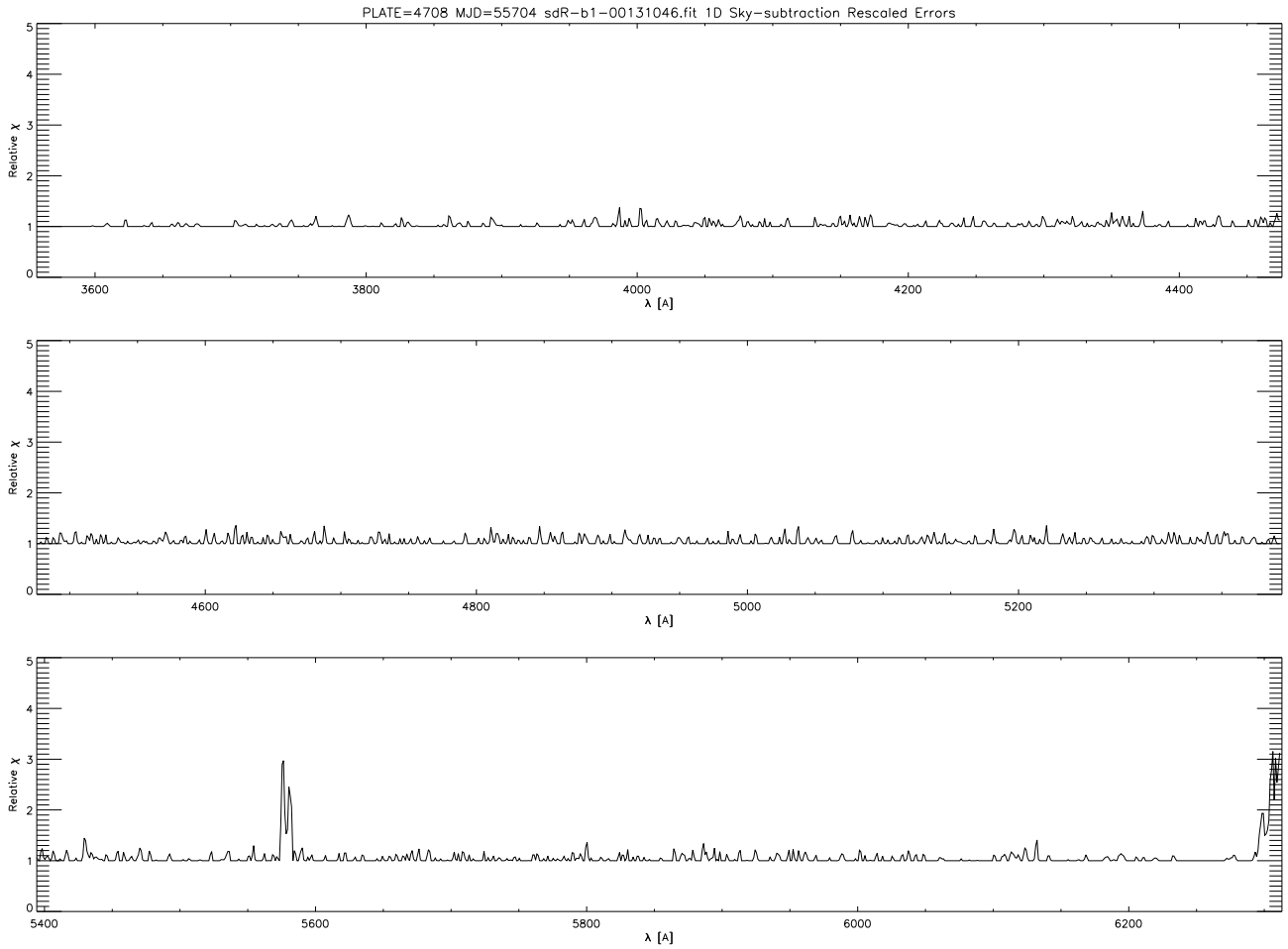

PLATE=4708 MJD=55704 Smooth superflat for sdR-b1-00131046.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

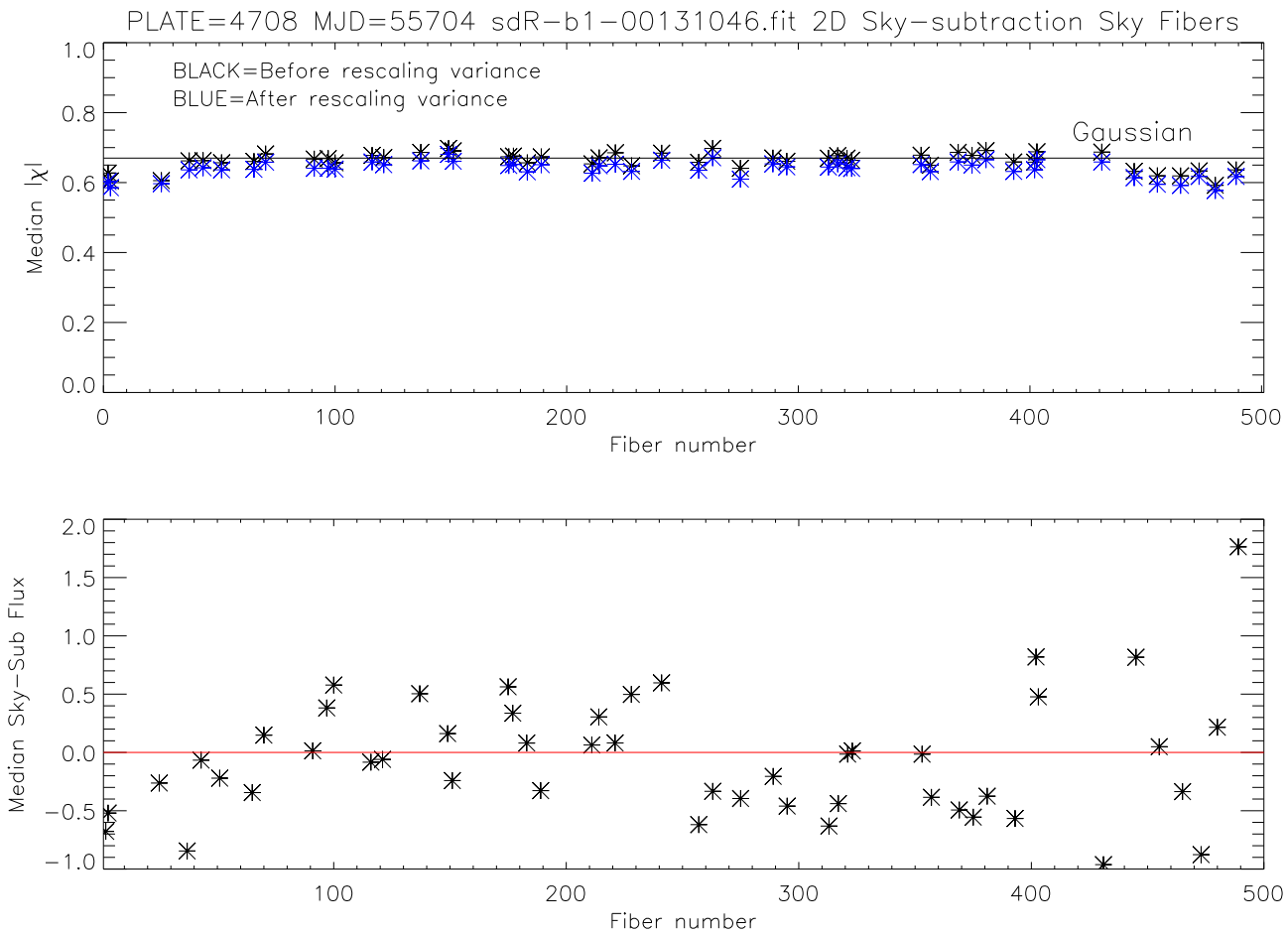

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

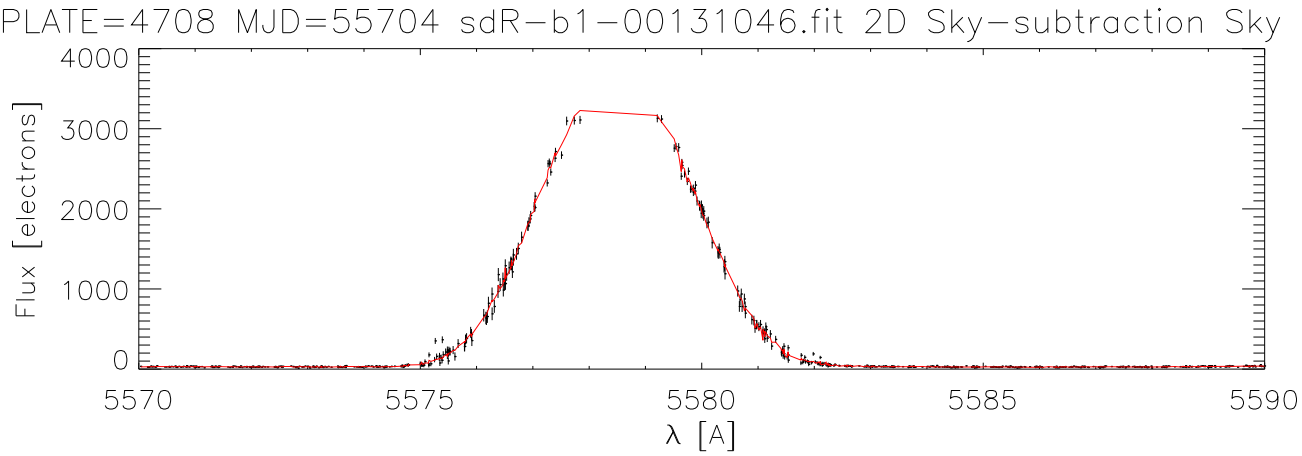

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

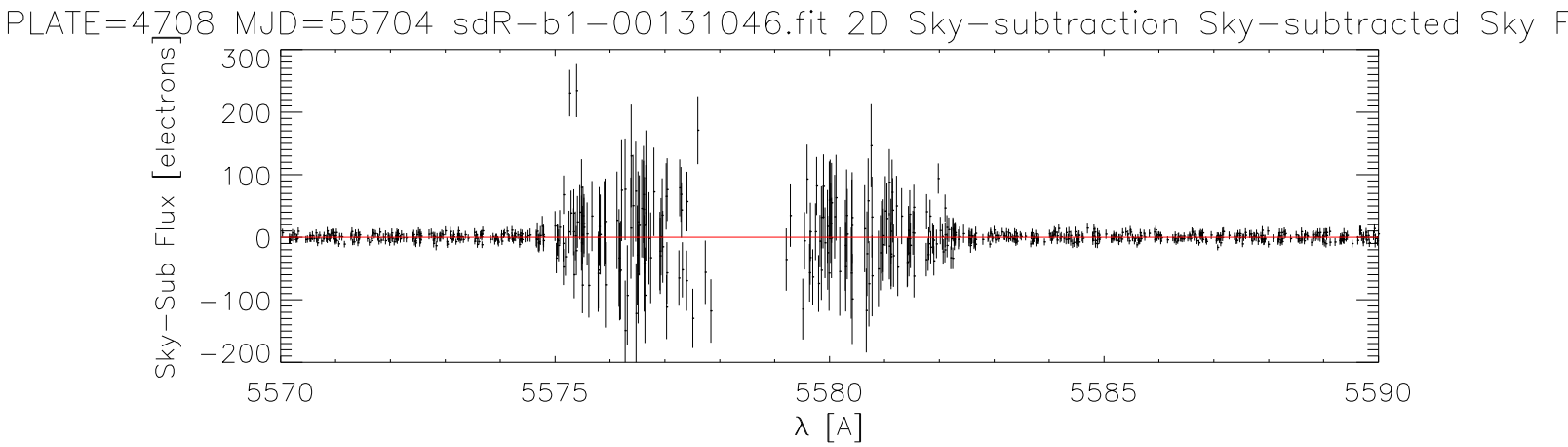

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

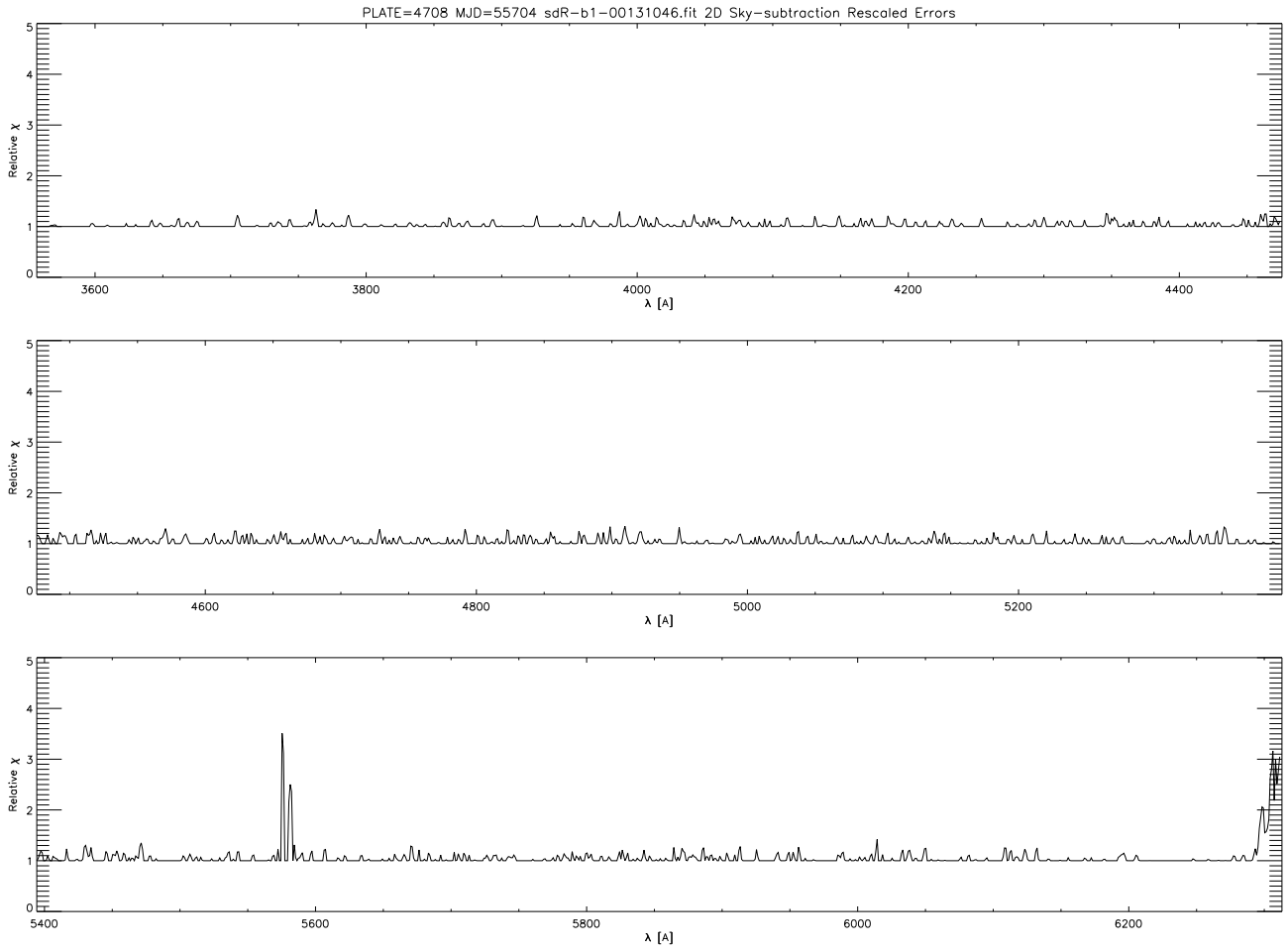


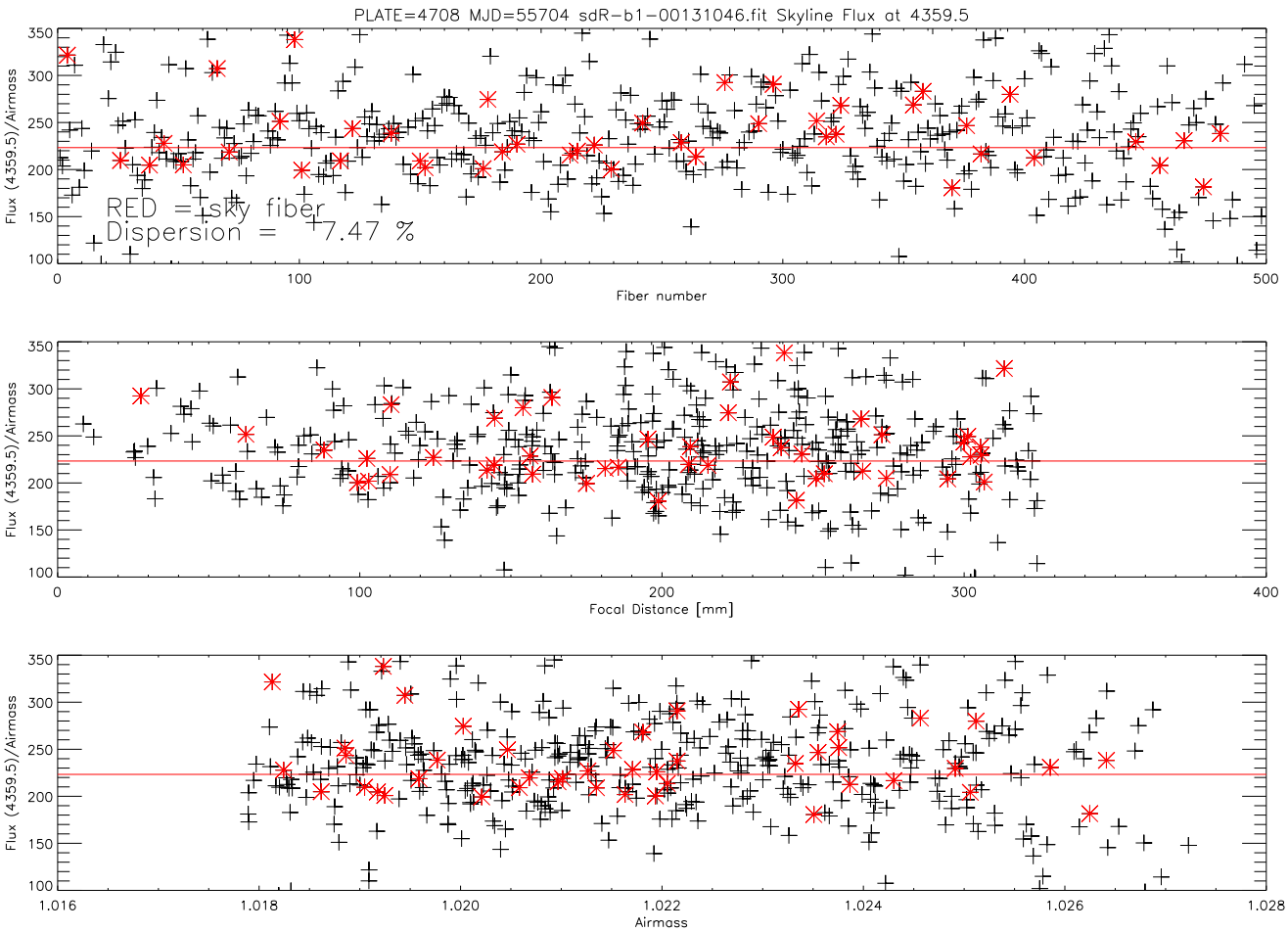

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

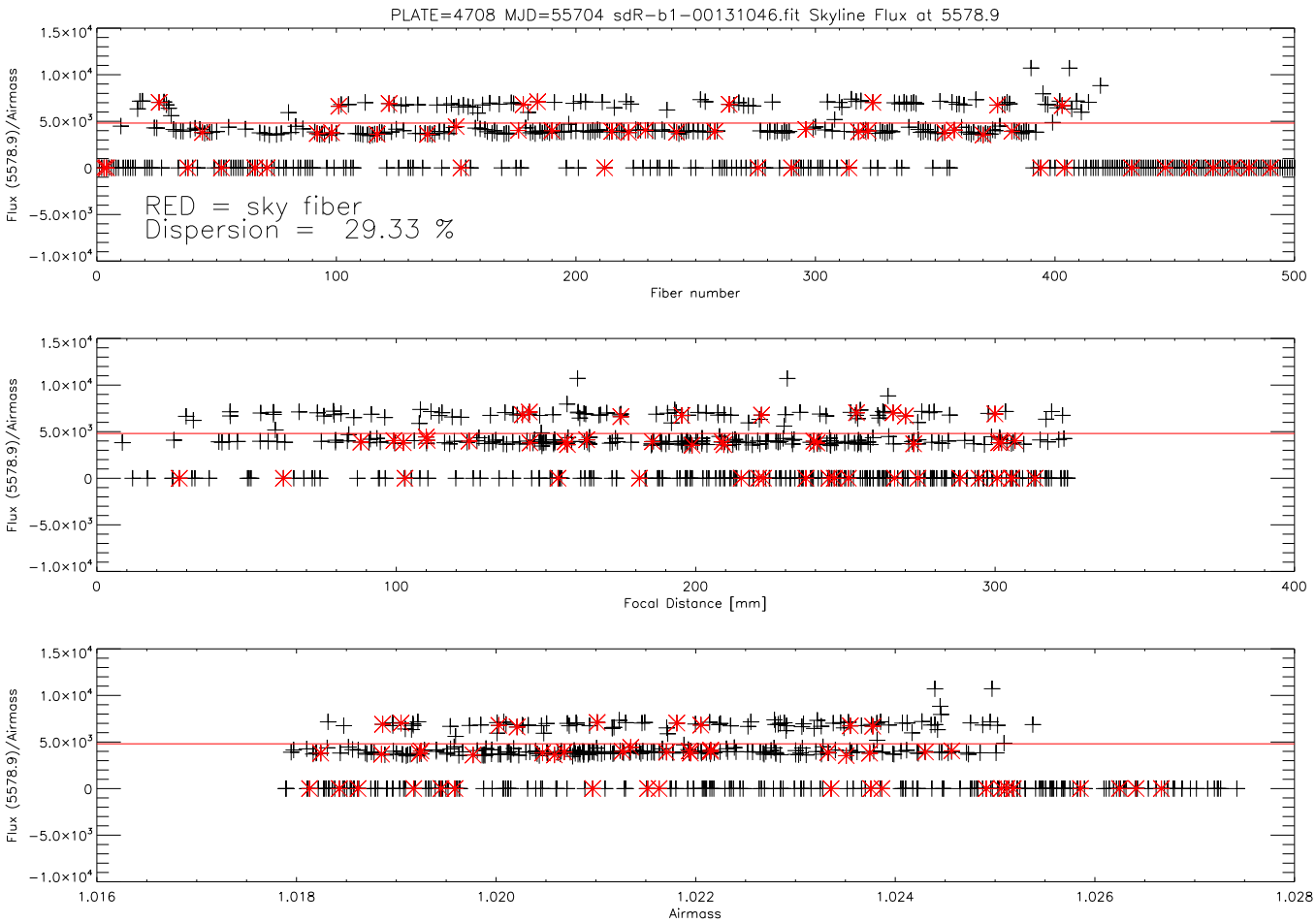

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

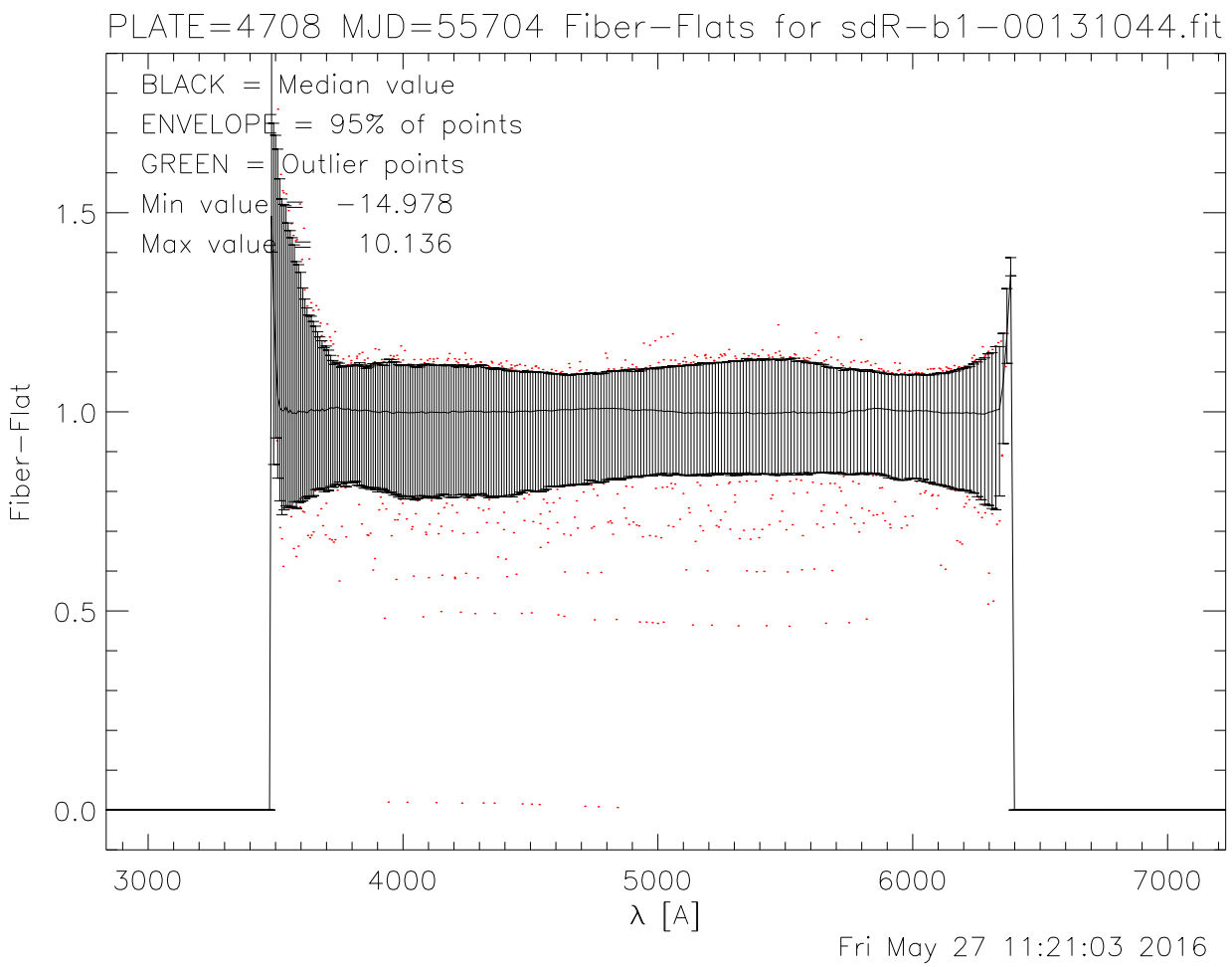

PLATE=4708 MJD=55704 sdR-b1-00131046.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

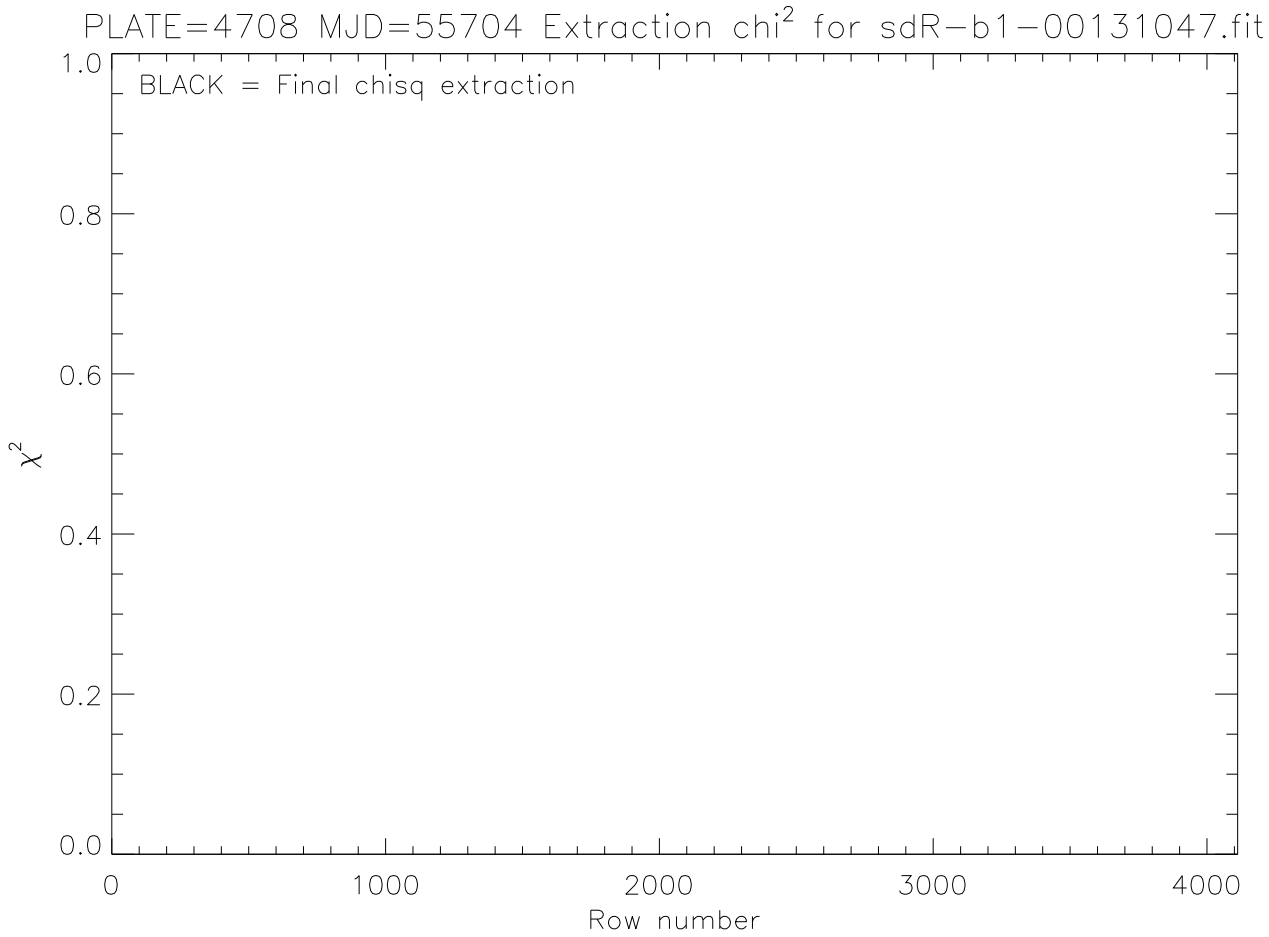
Number of sky fibers = 49

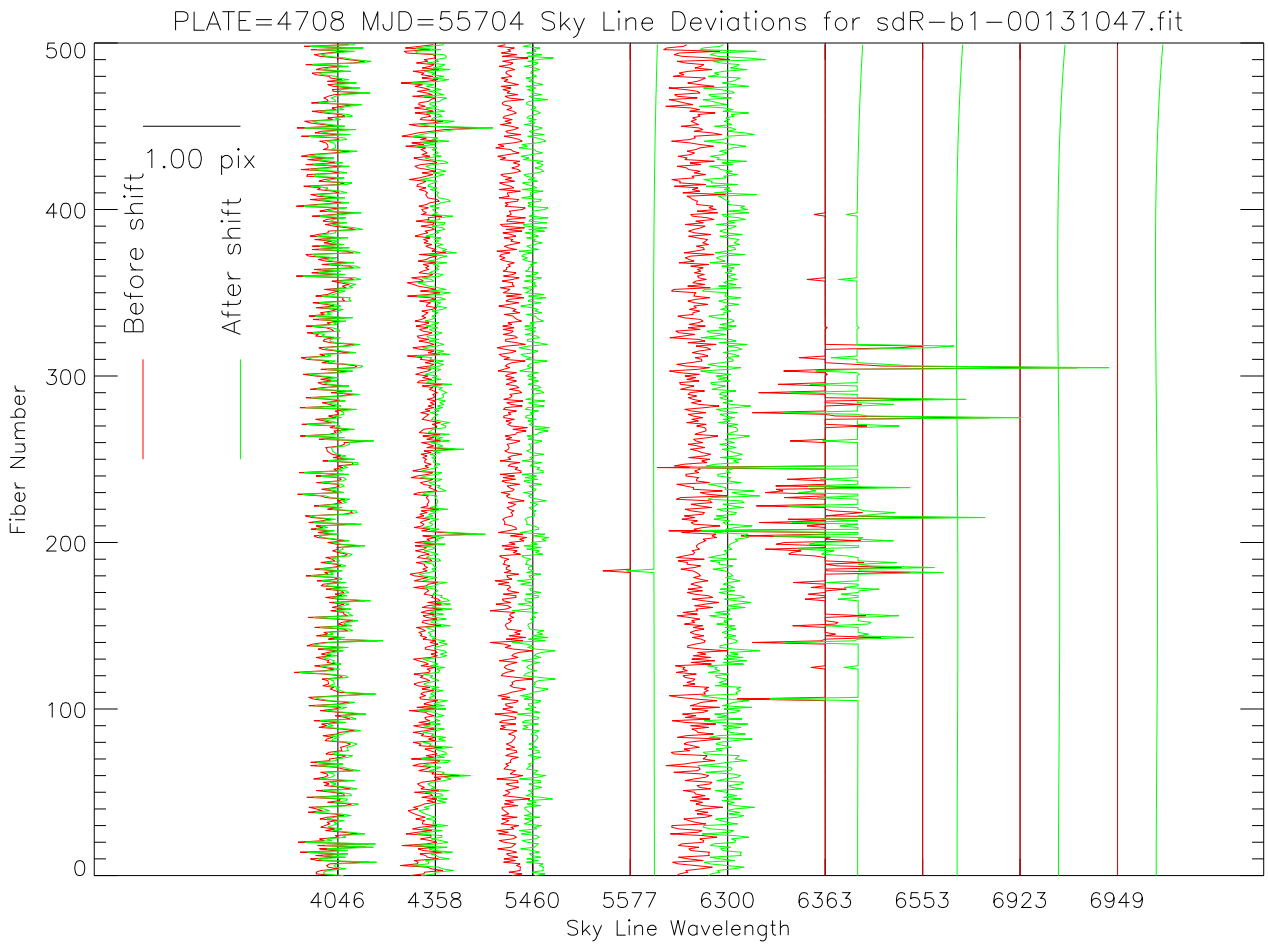


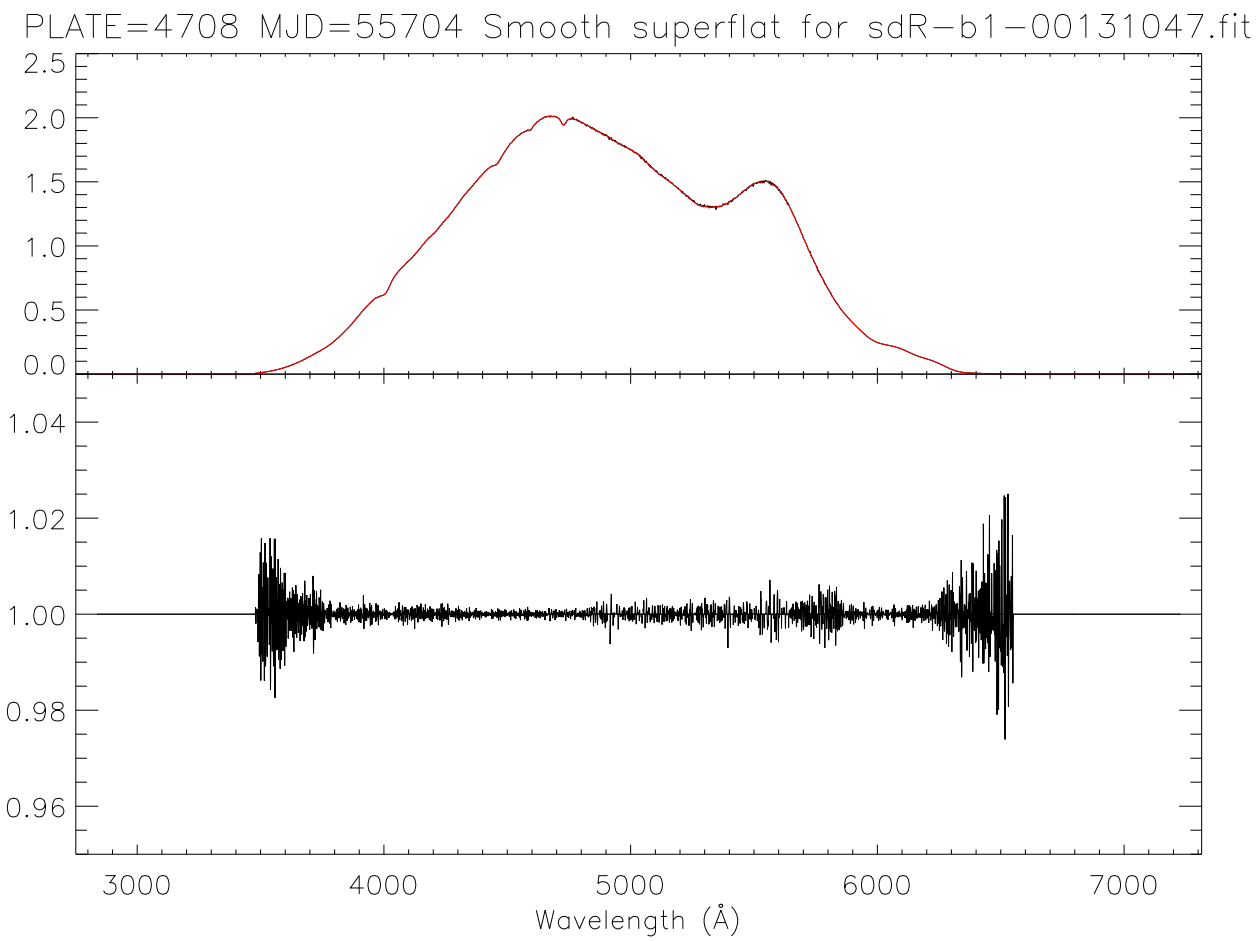

PLATE=4708 MJD=55704 sdR-b1-00131046.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.47 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

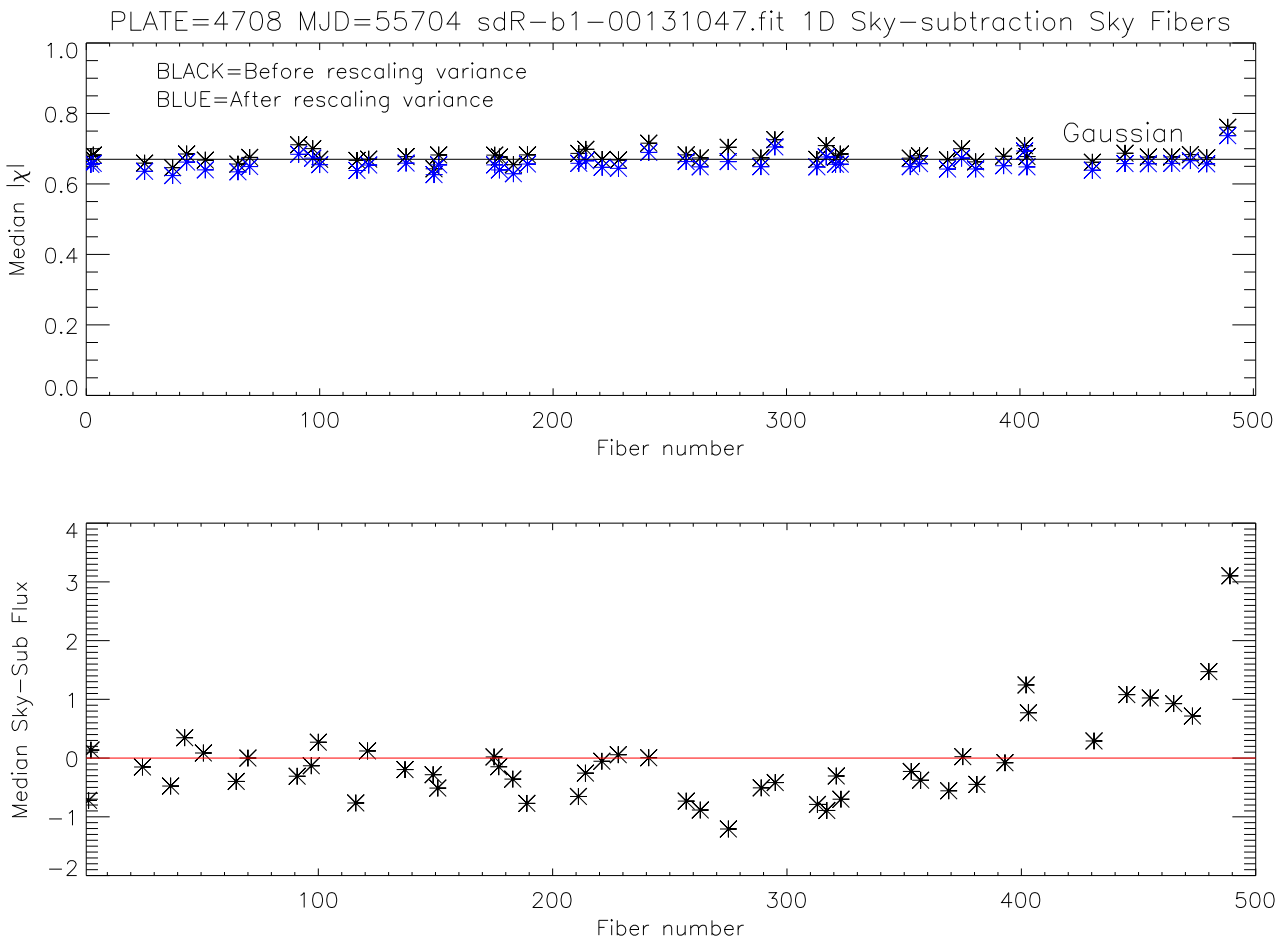

PLATE=4708 MJD=55704 sdR-b1-00131046.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 29.33 %
Fiber number
Focal Distance [mm]
Airmass

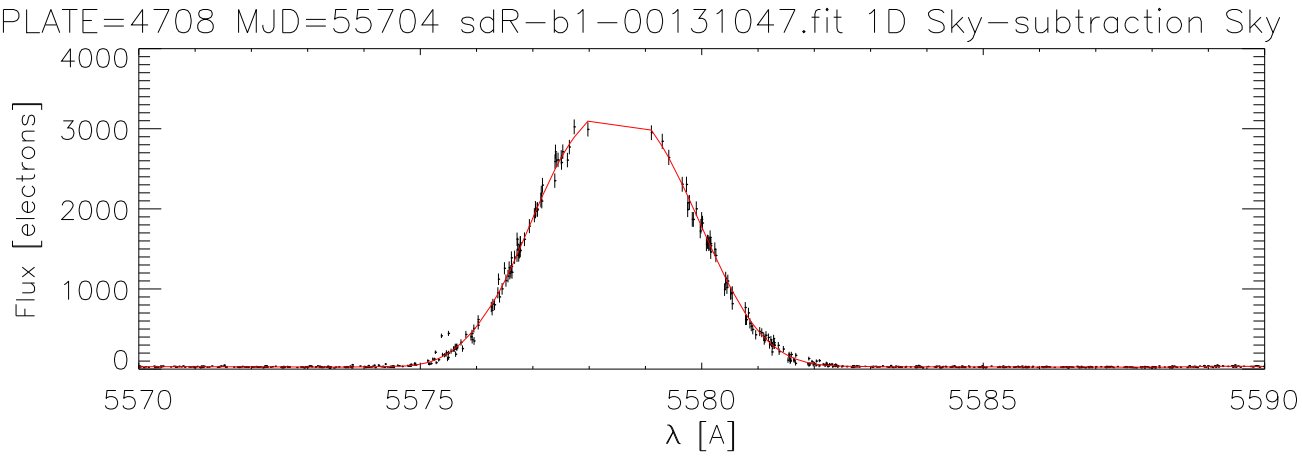

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.978
Max value = 10.136
Fiber−Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:21:03 2016

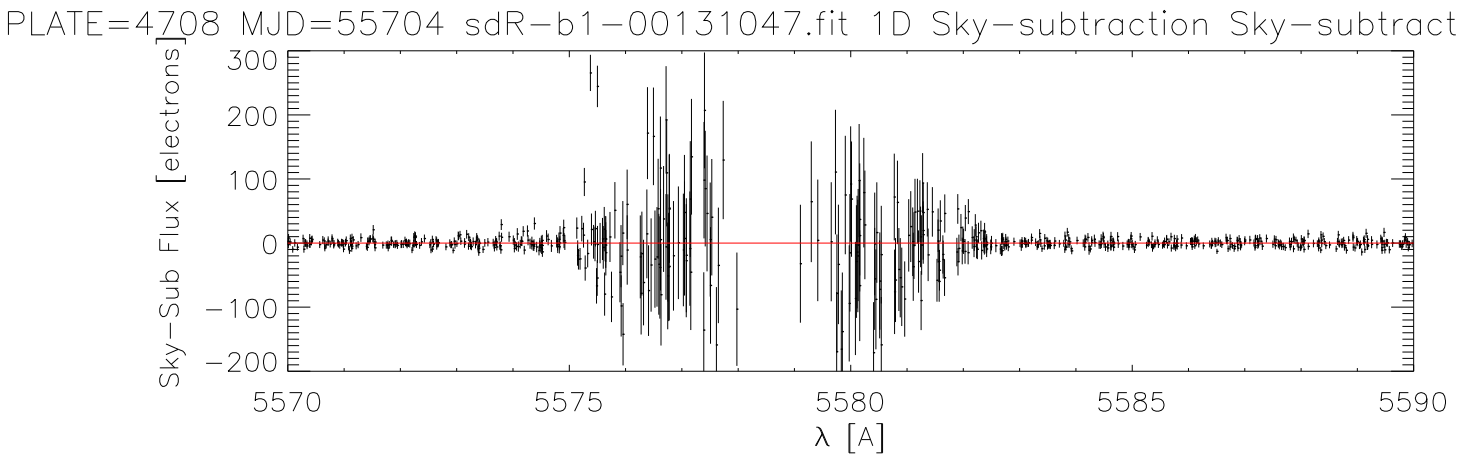

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b1-00131047.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b1-00131047.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

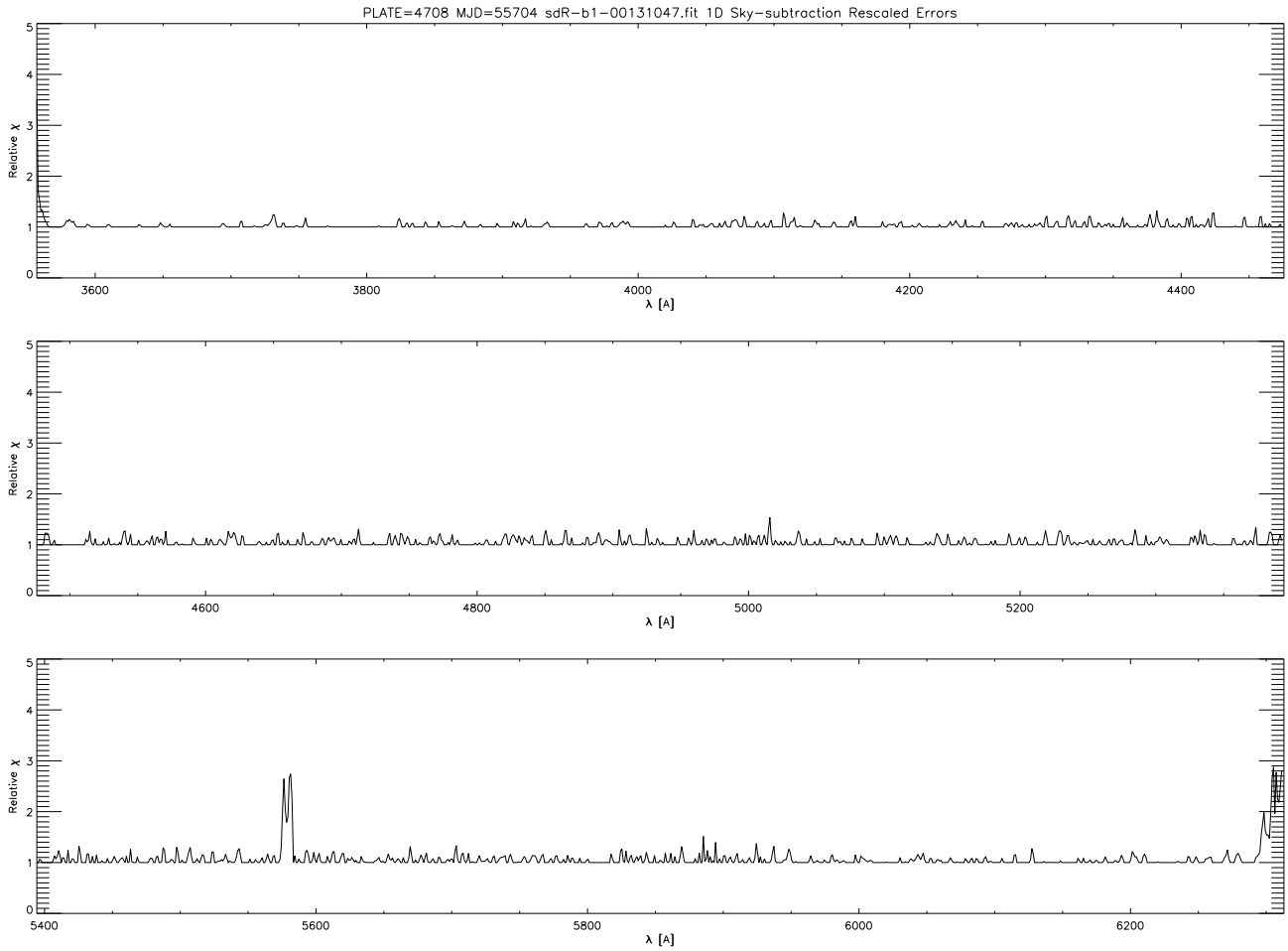

PLATE=4708 MJD=55704 Smooth superflat for sdR-b1-00131047.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

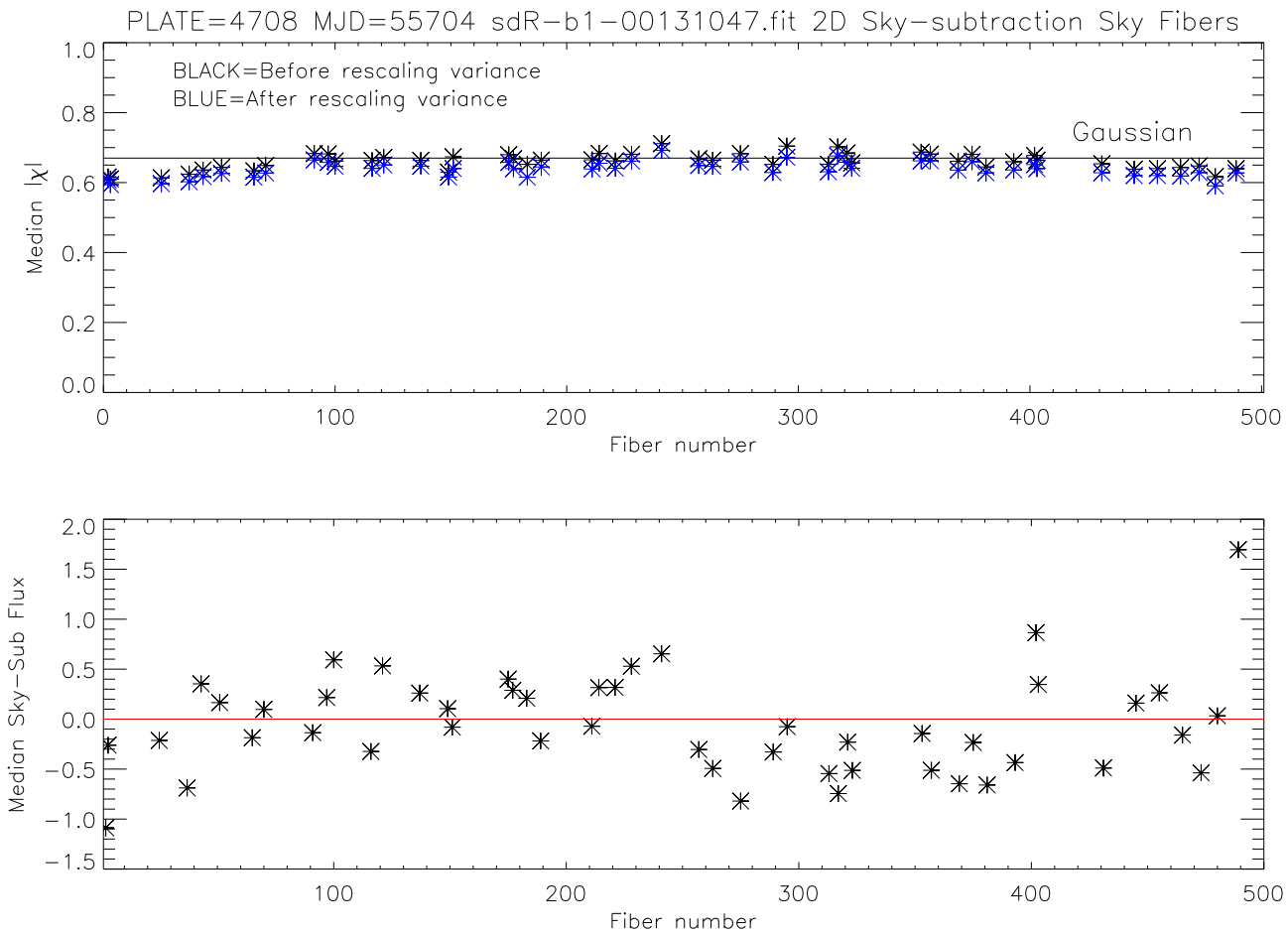

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

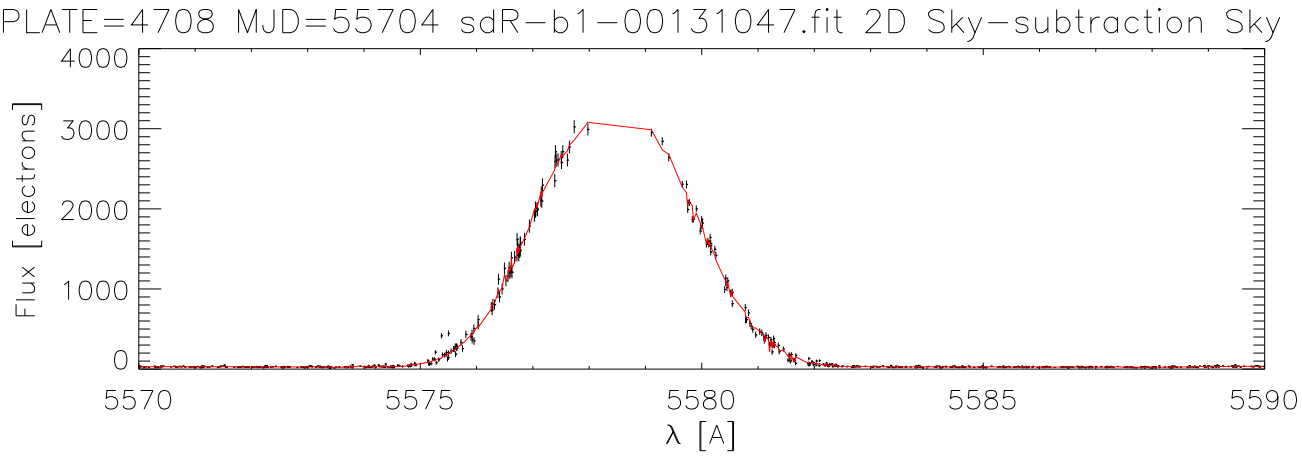

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

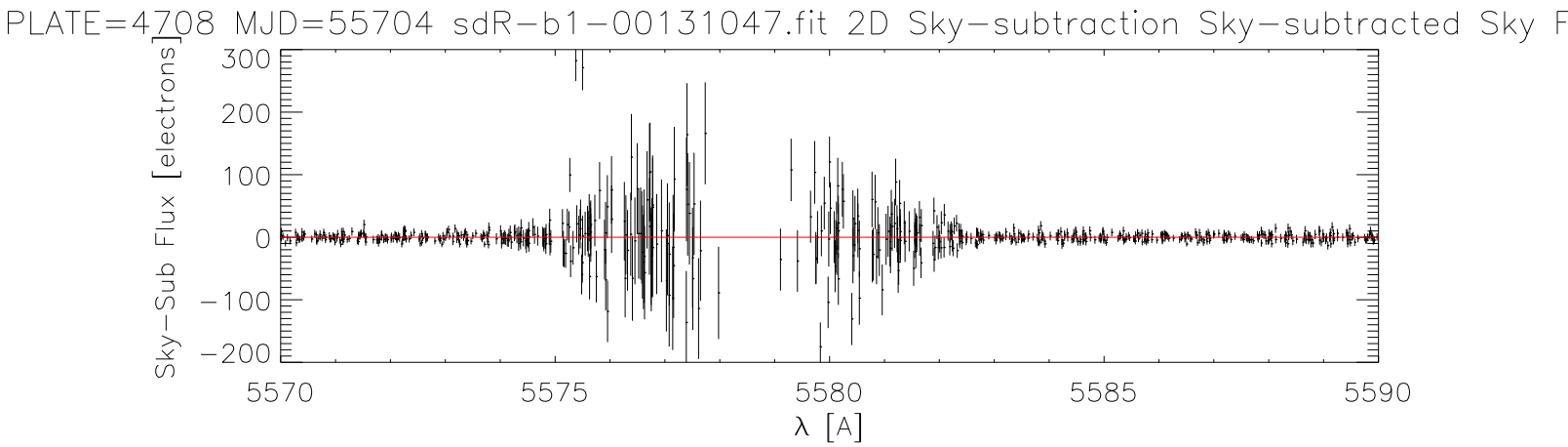

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

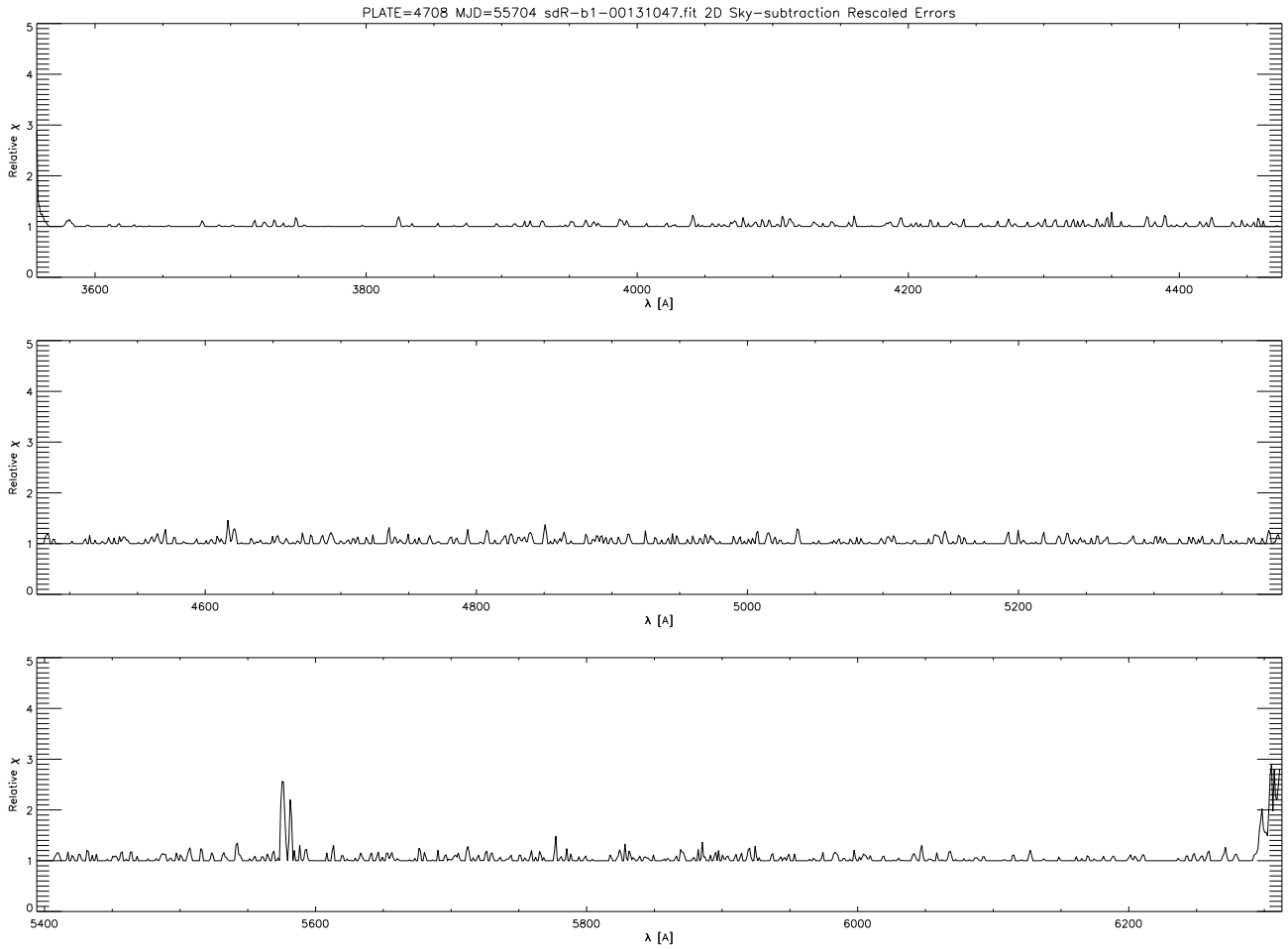


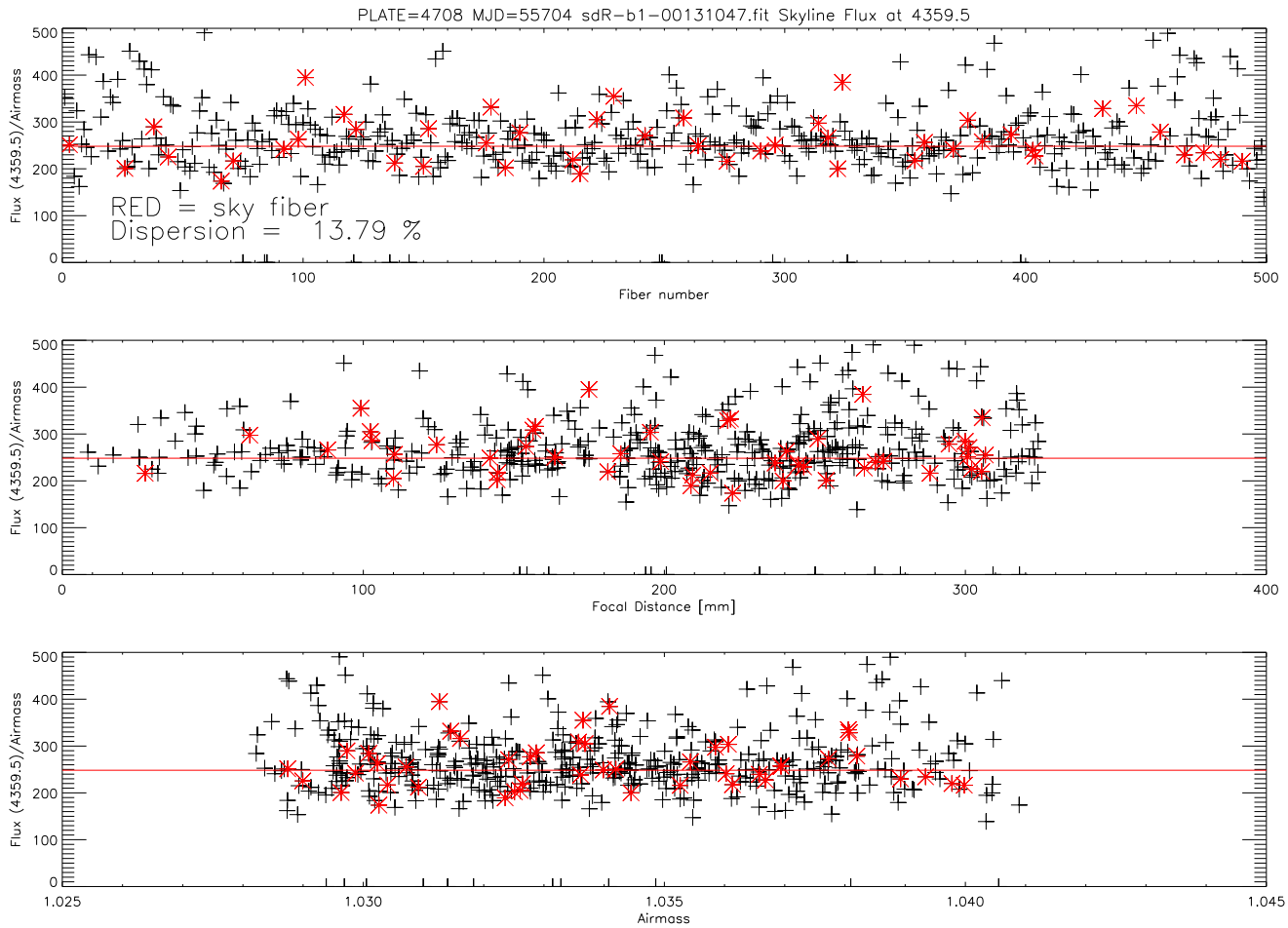

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

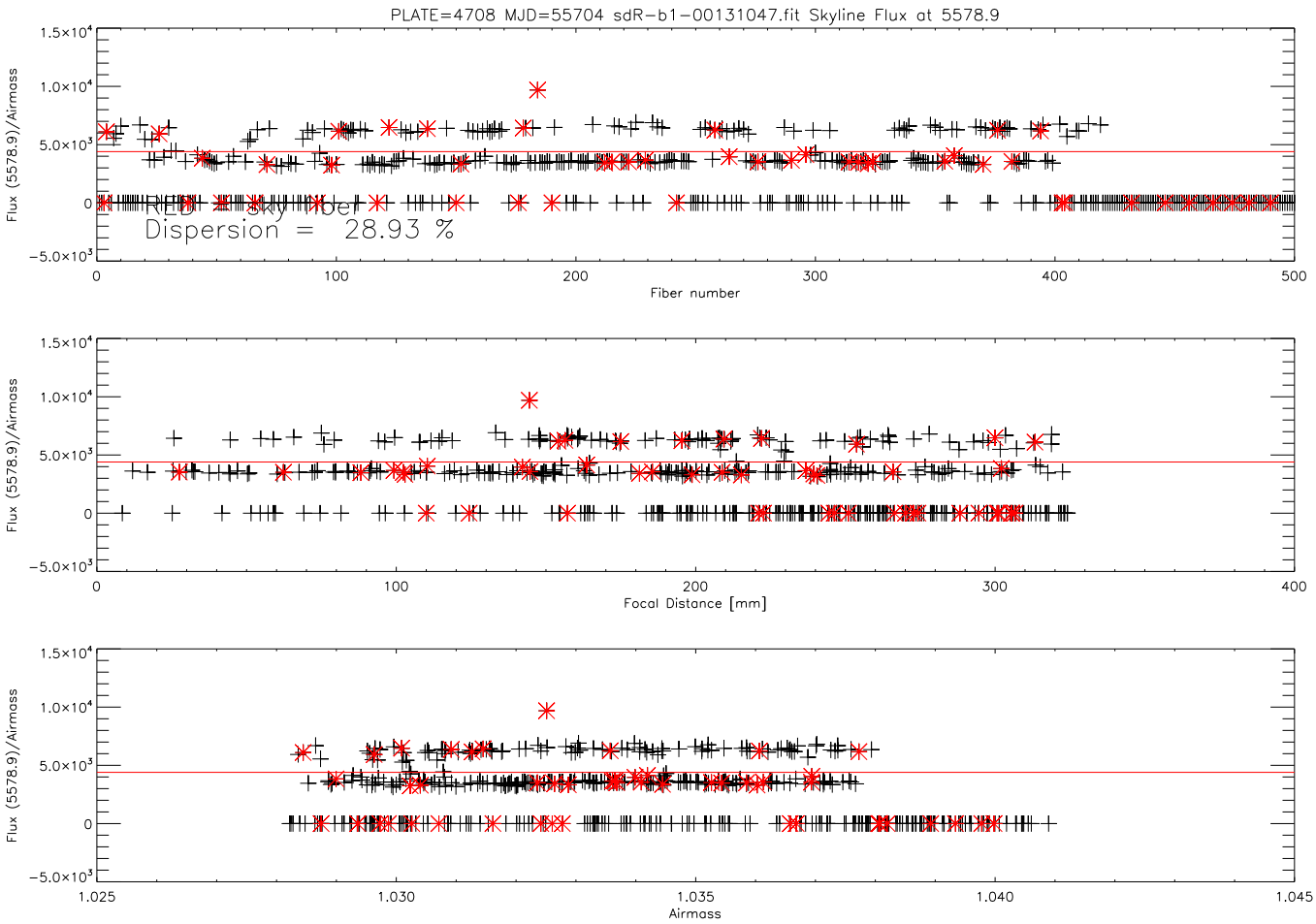

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

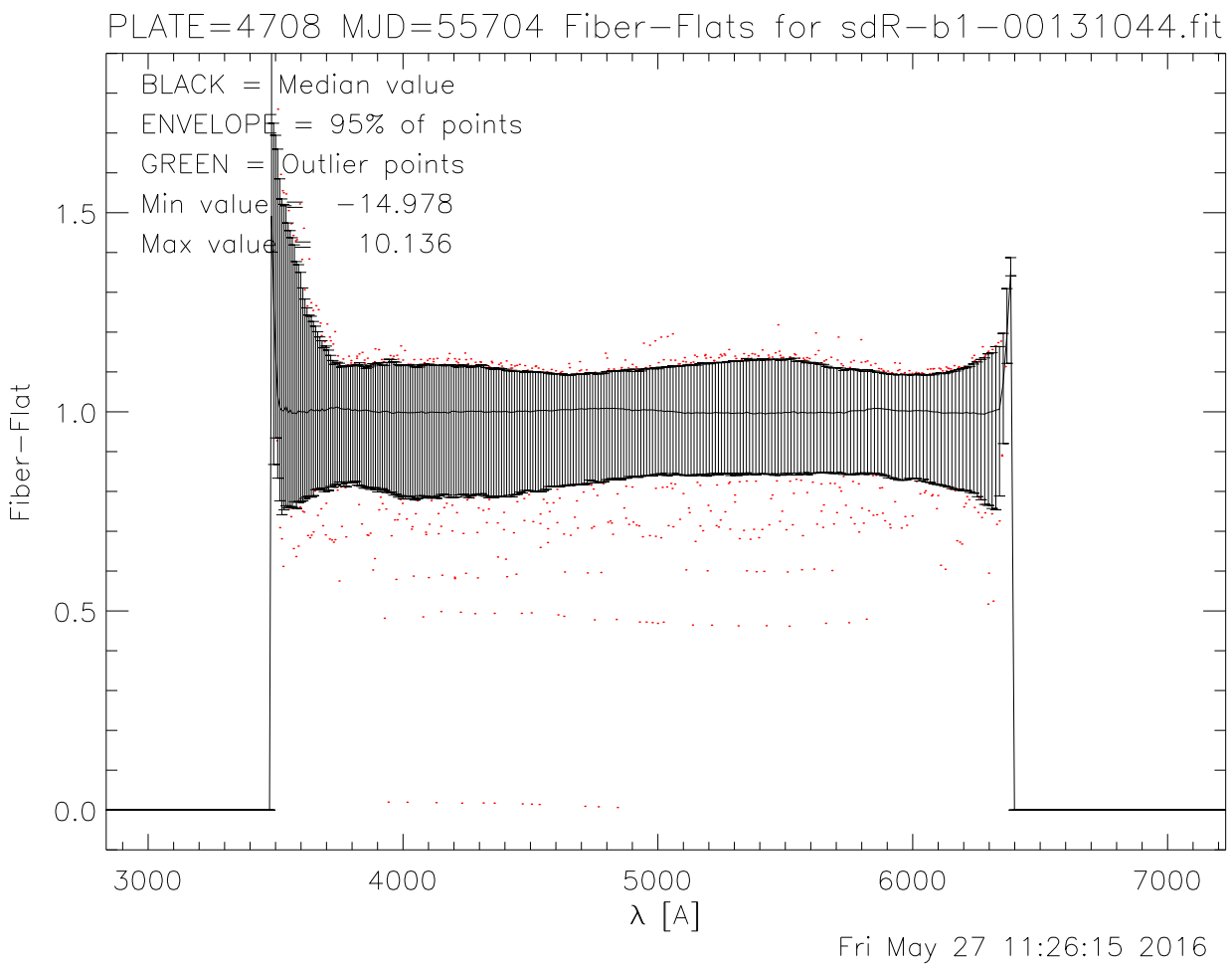

PLATE=4708 MJD=55704 sdR-b1-00131047.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

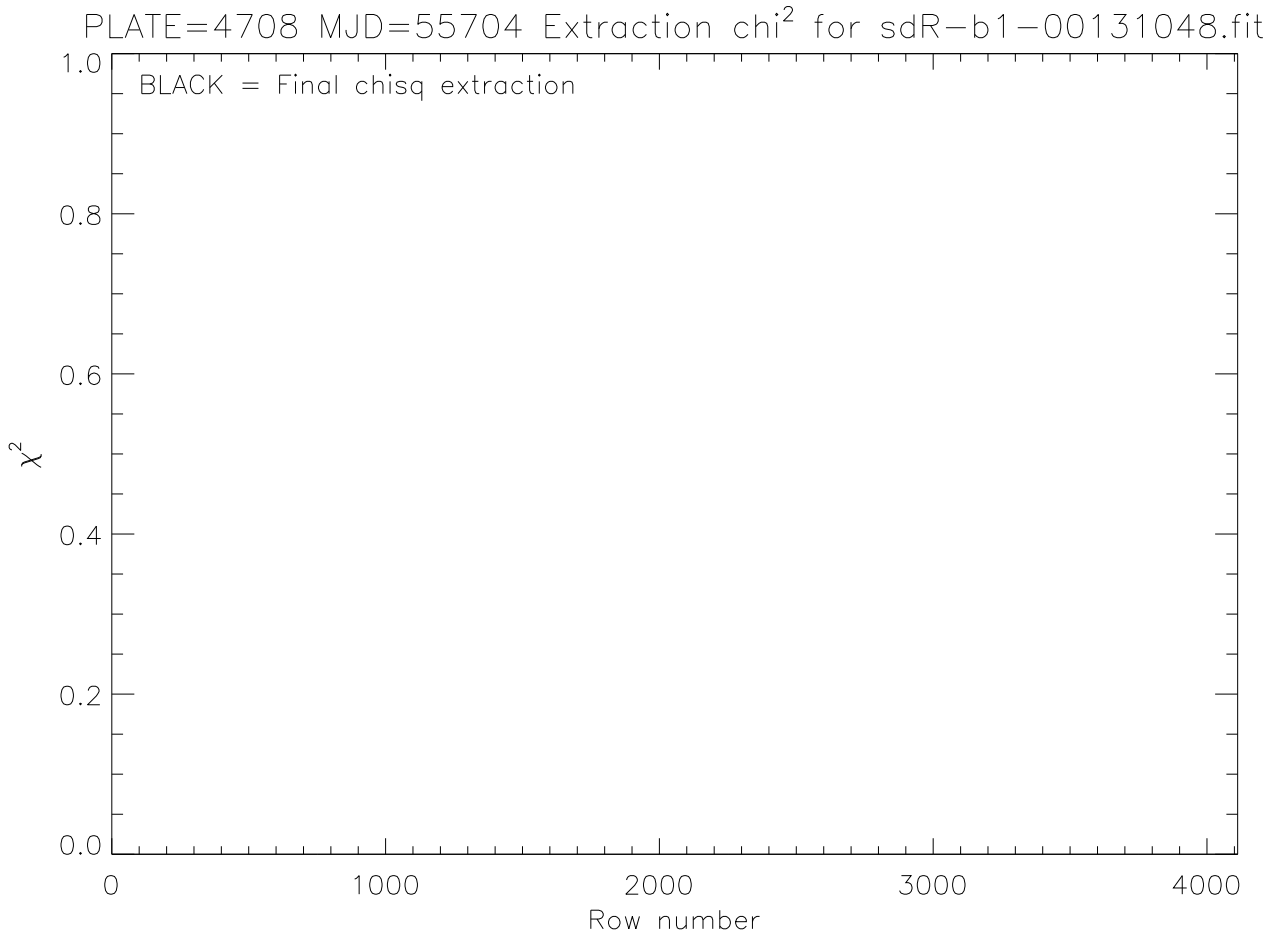
Number of sky fibers = 49

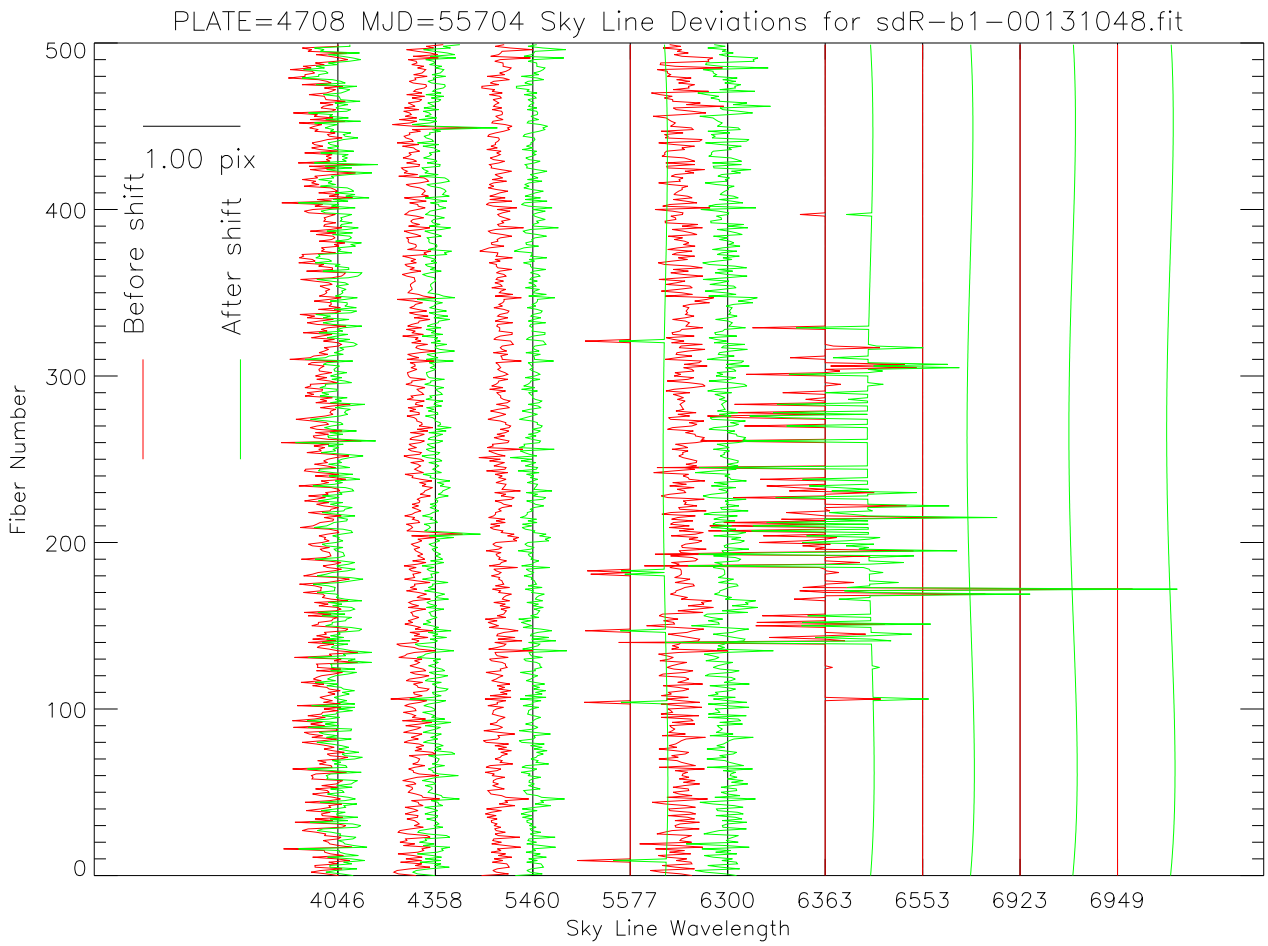


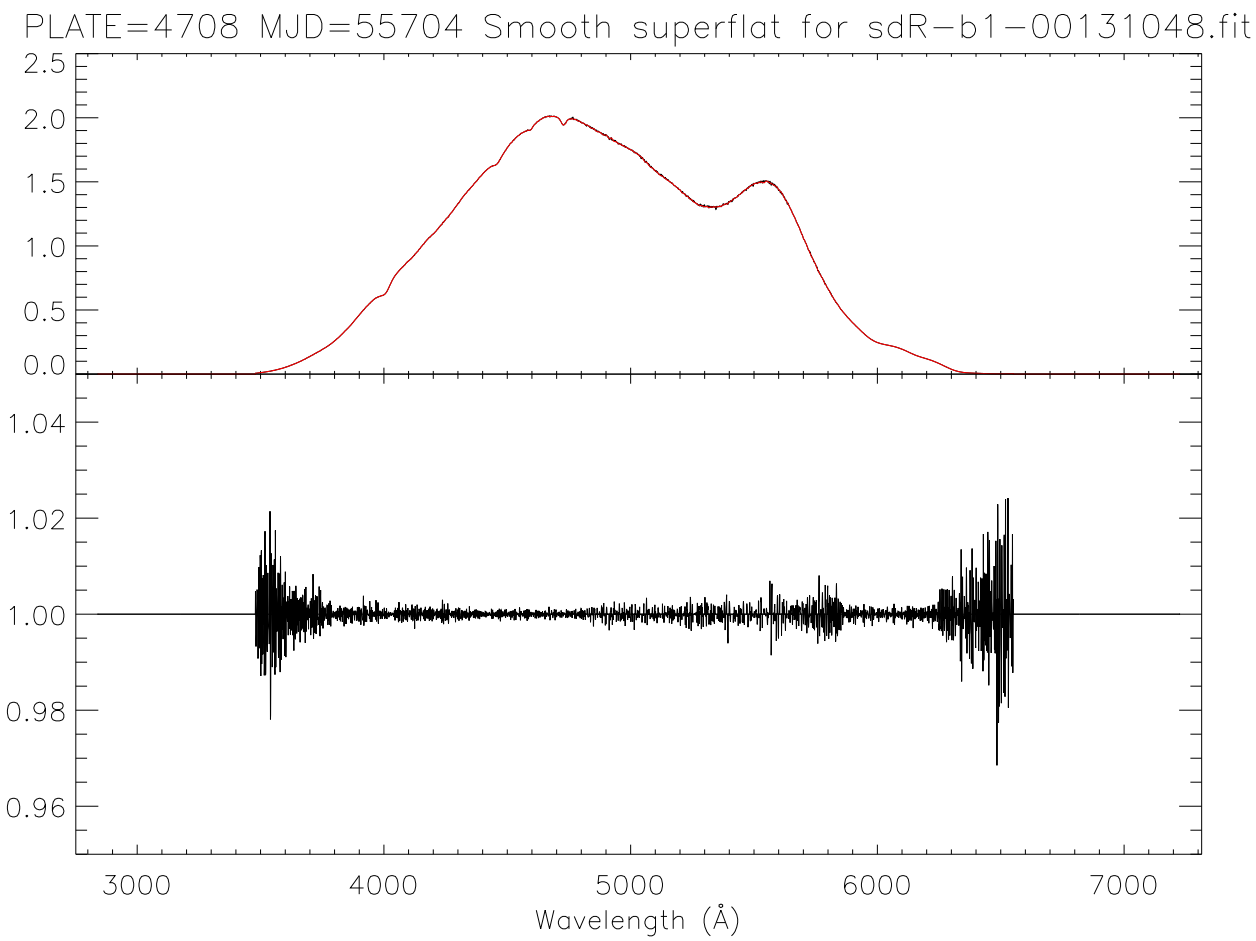

PLATE=4708 MJD=55704 sdR-b1-00131047.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.79 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

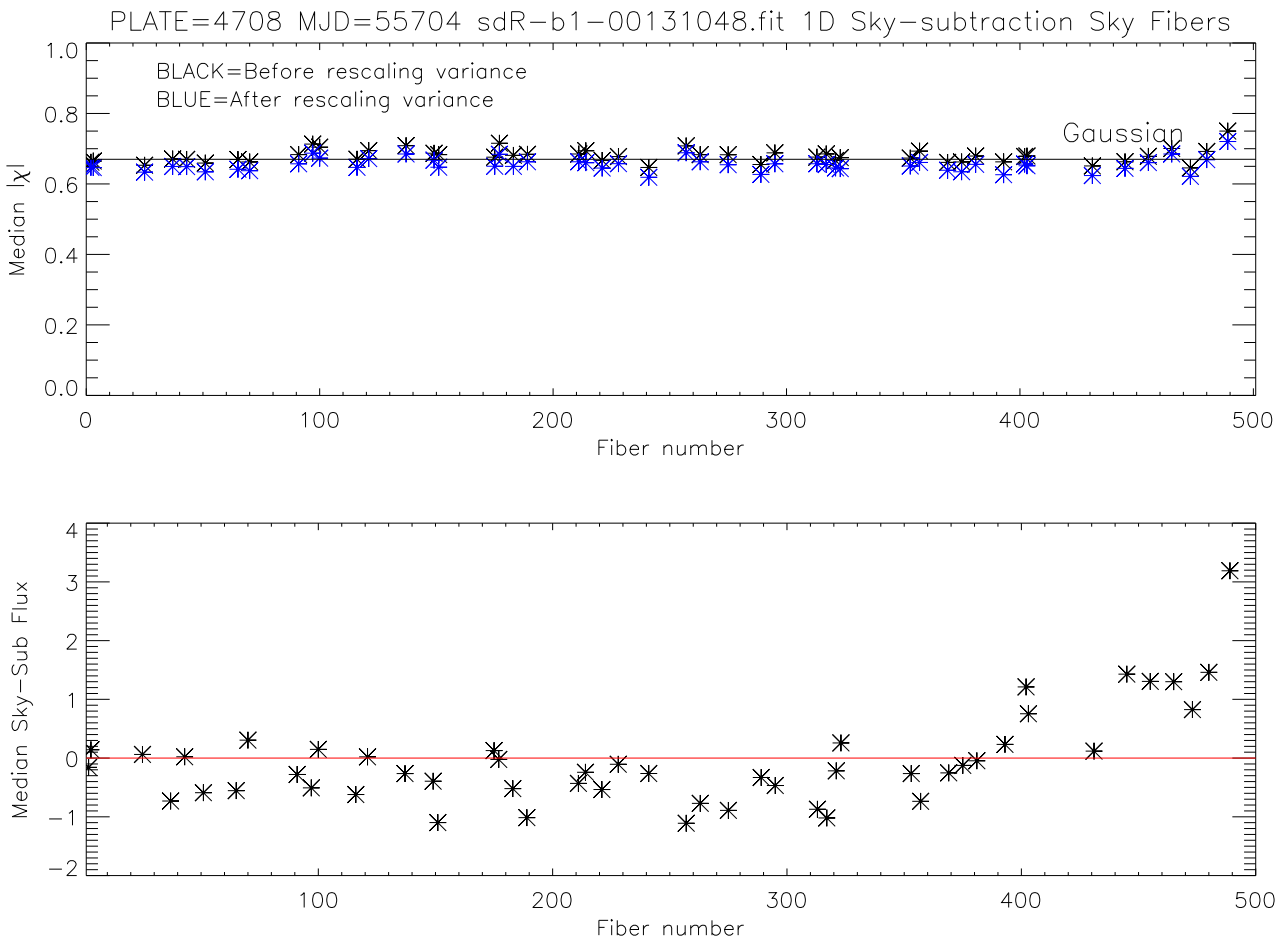

PLATE=4708 MJD=55704 sdR-b1-00131047.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
Red sky fiber
Dispersion = 28.93 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.025
1.030
1.035
1.040
1.045
Airmass

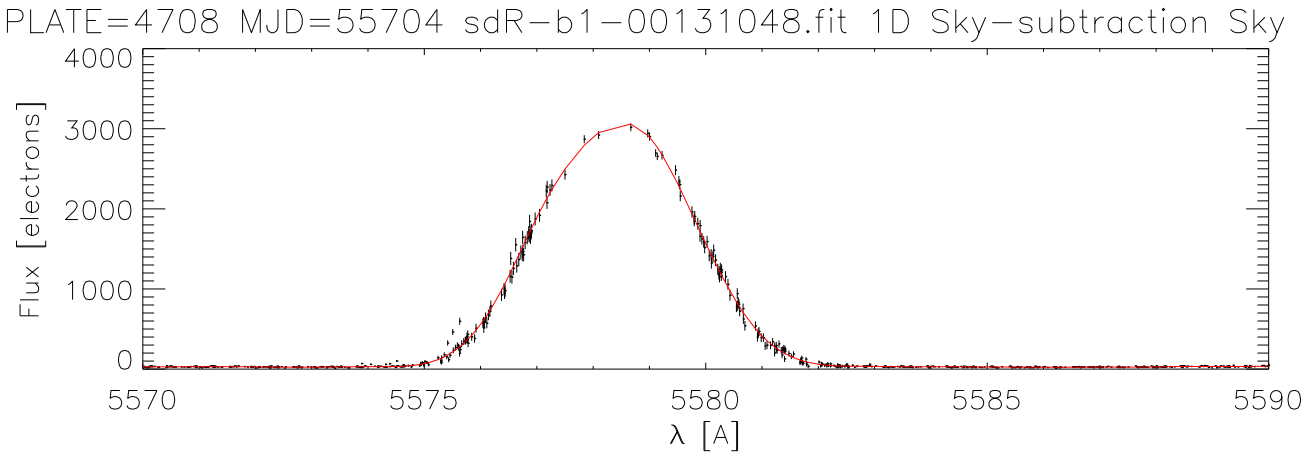

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.978
Max value = 10.136
Fiber−Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:26:15 2016

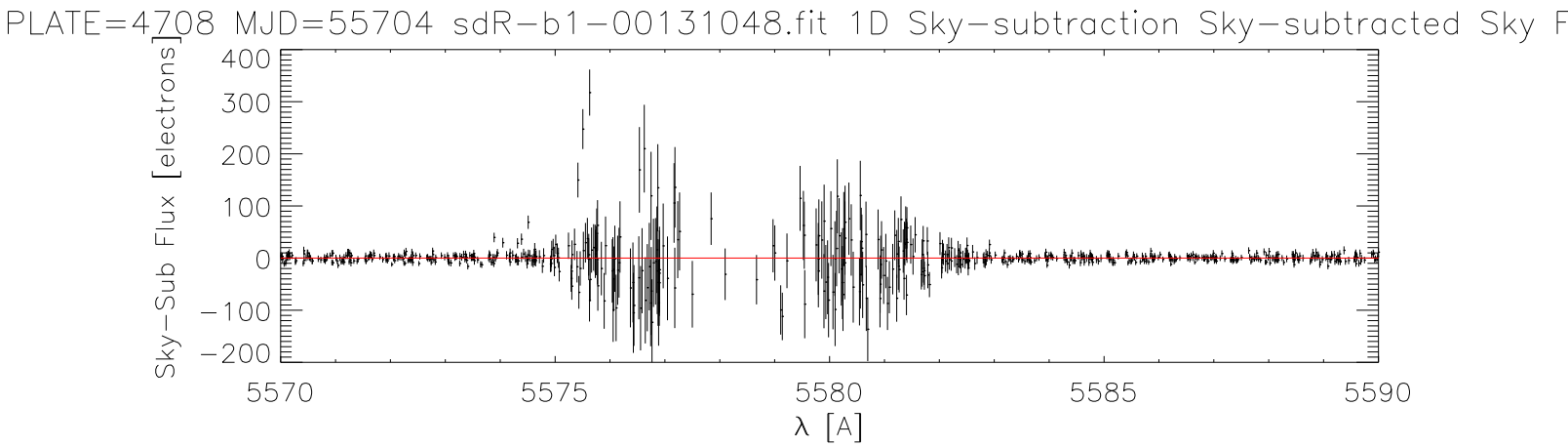

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b1-00131048.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b1-00131048.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

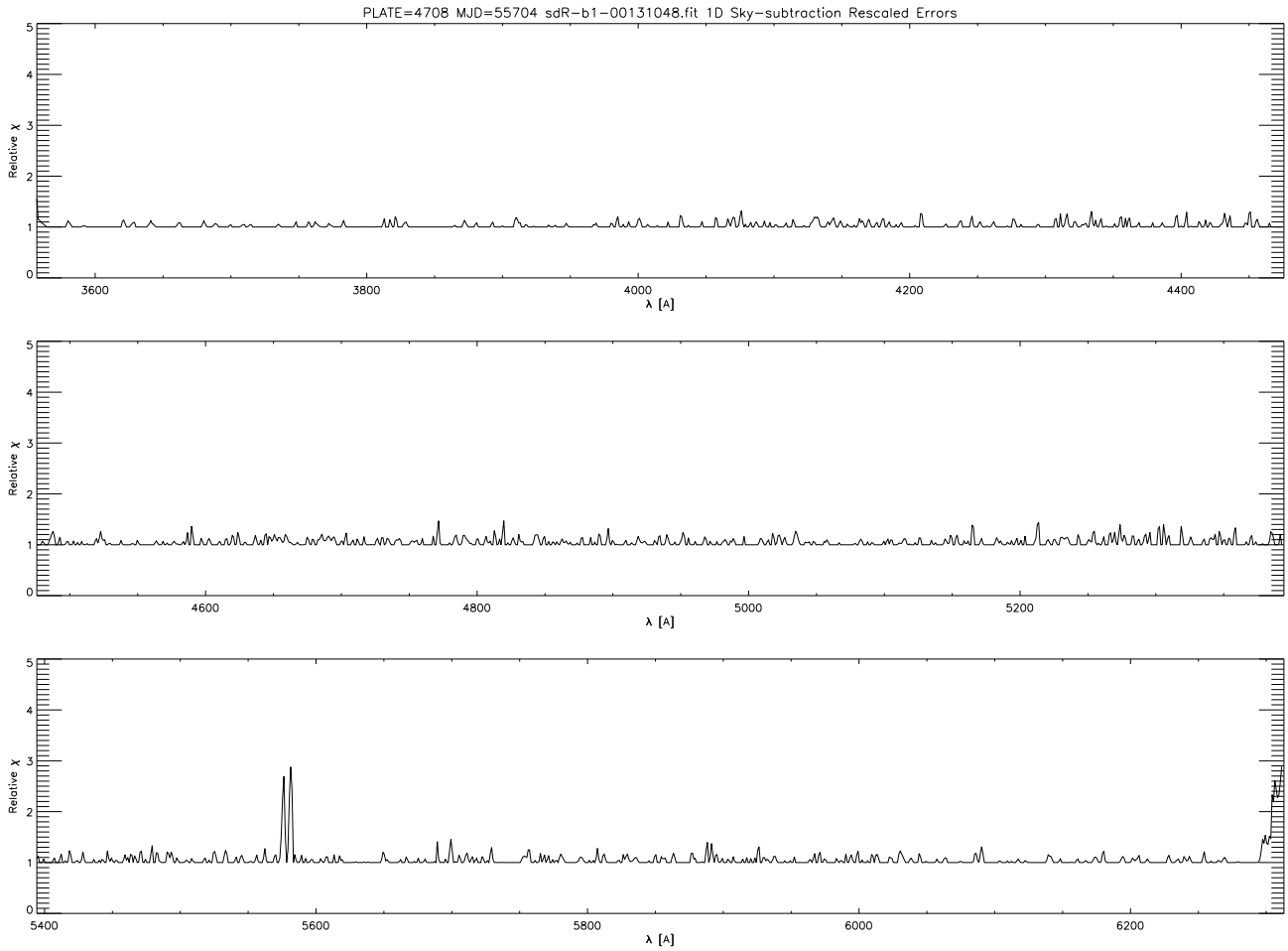

PLATE=4708 MJD=55704 Smooth superflat for sdR-b1-00131048.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

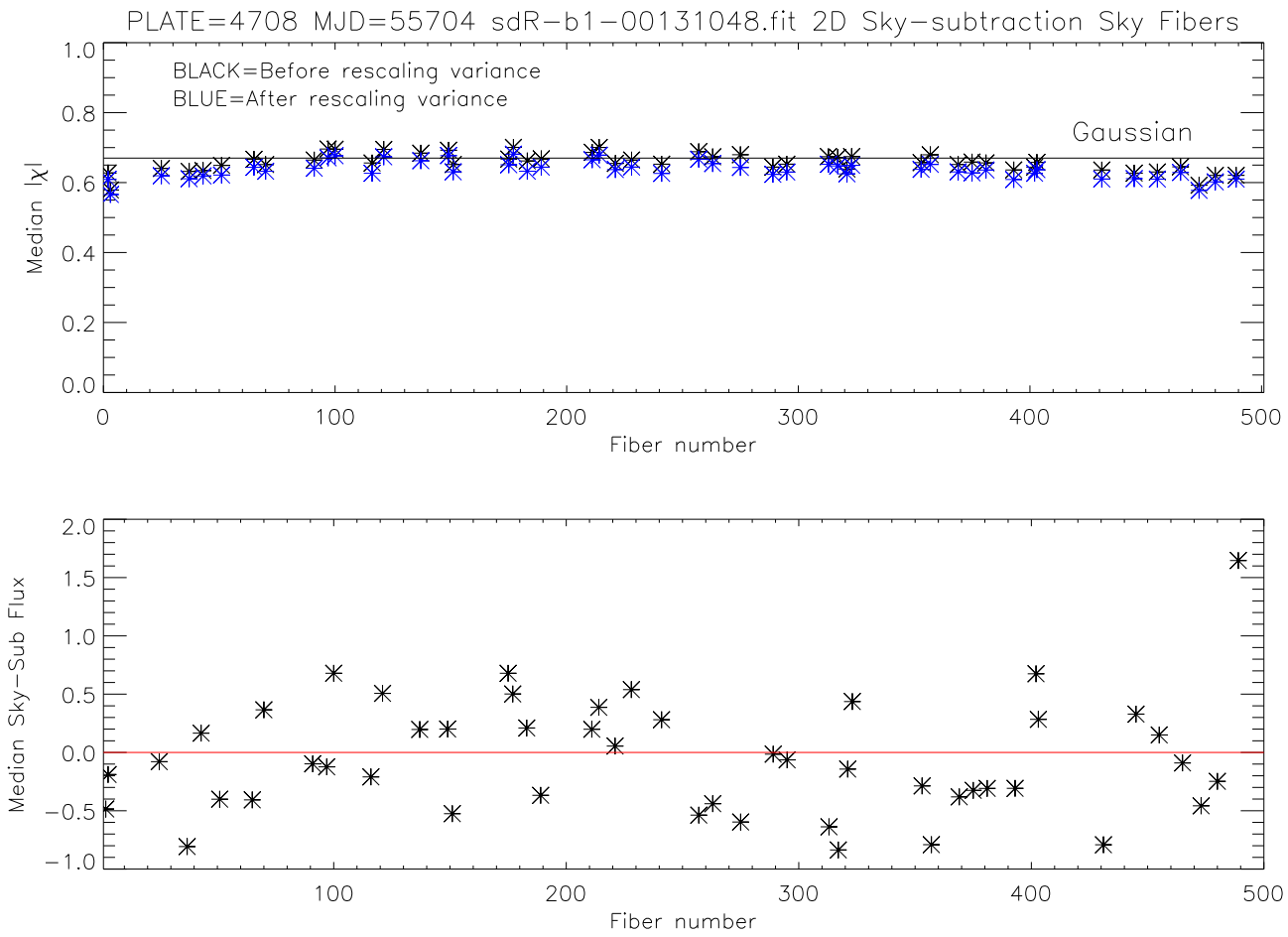

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

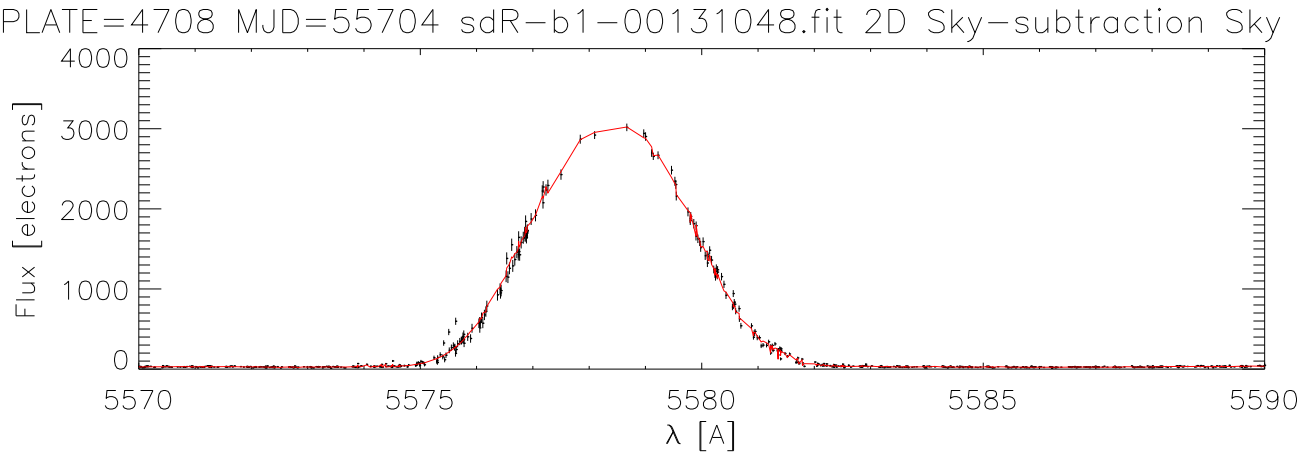

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

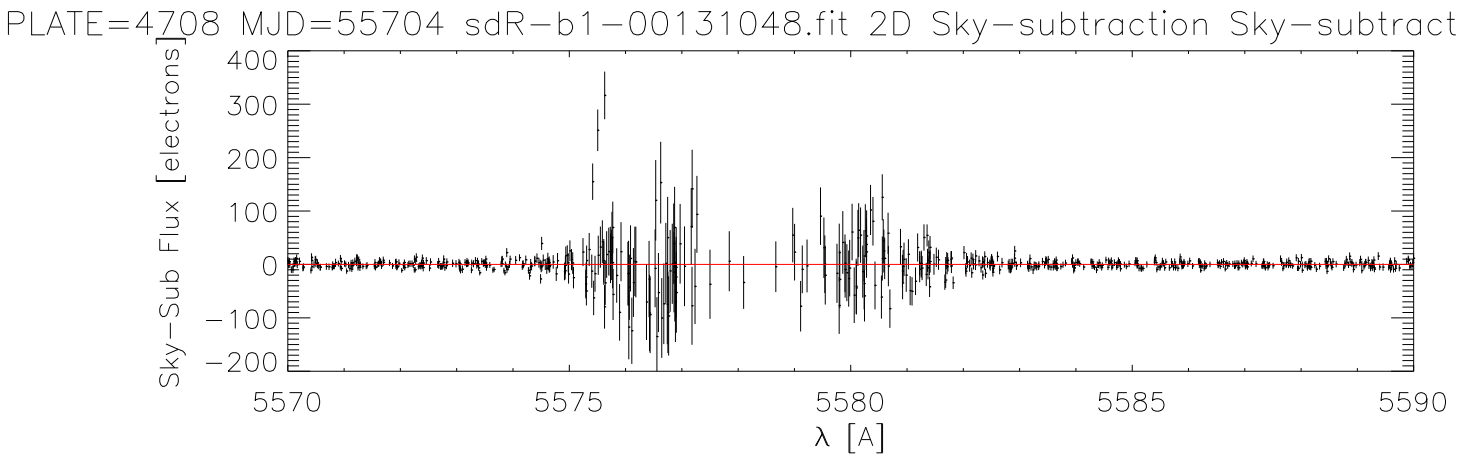

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

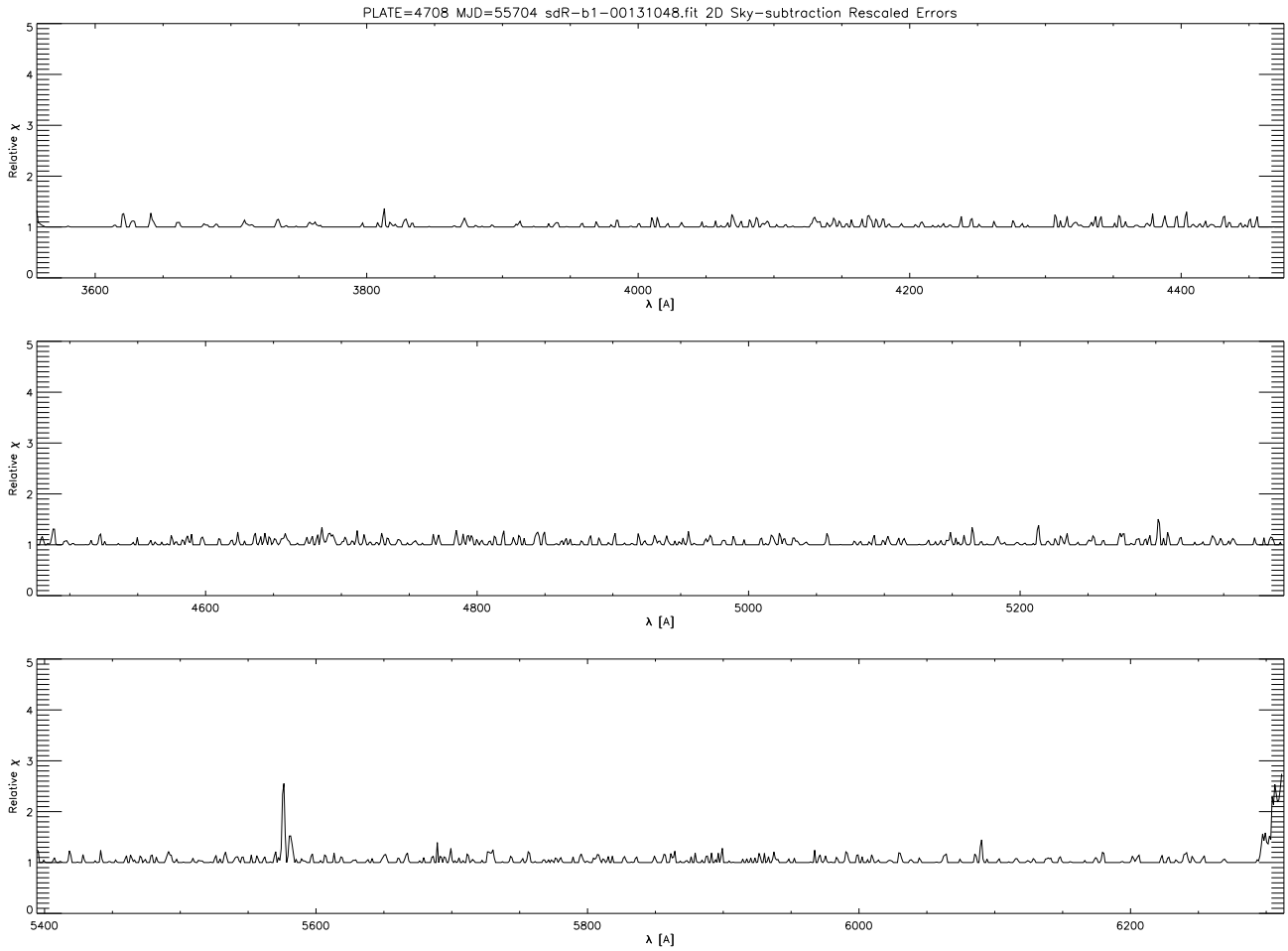


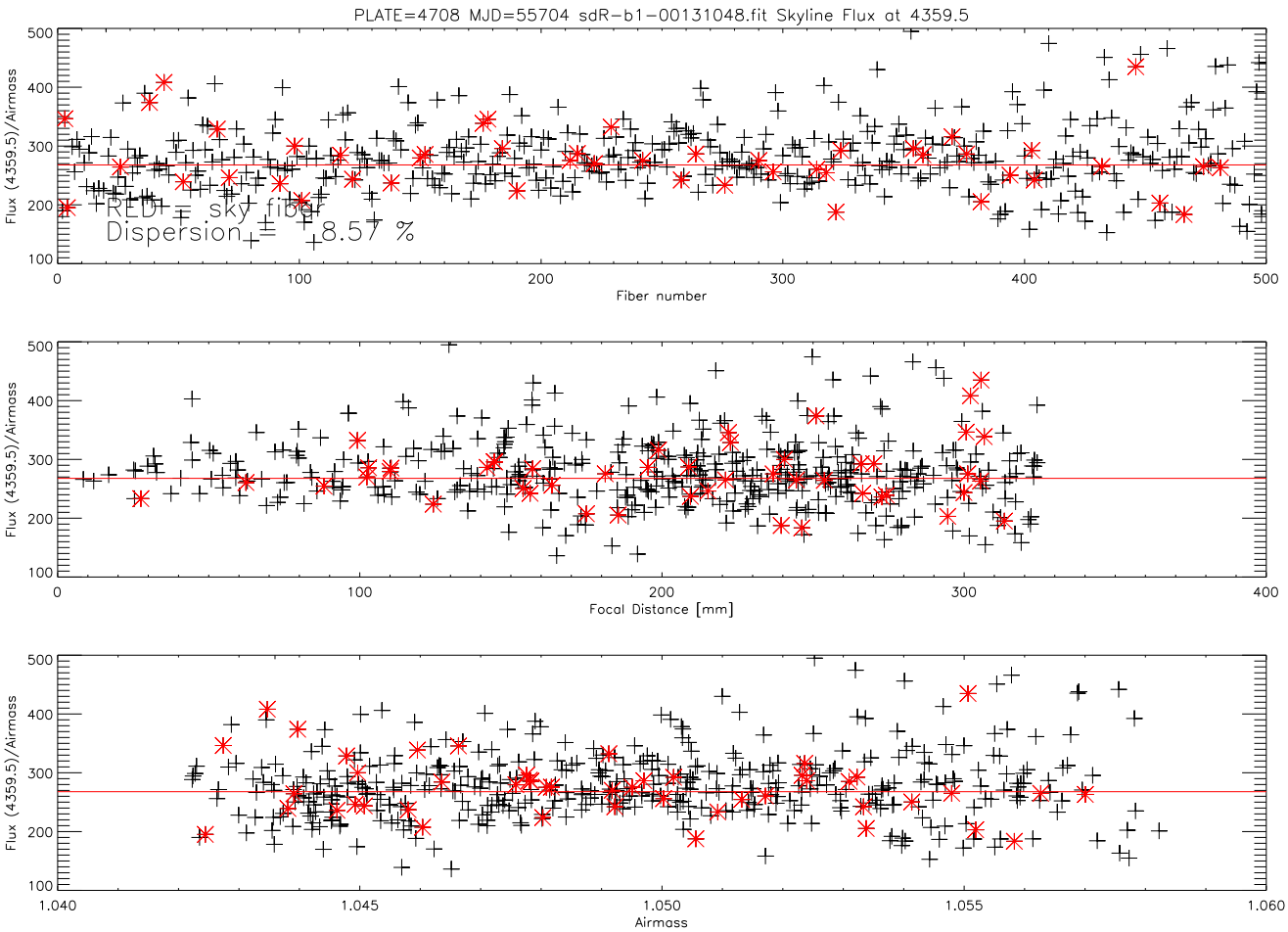

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

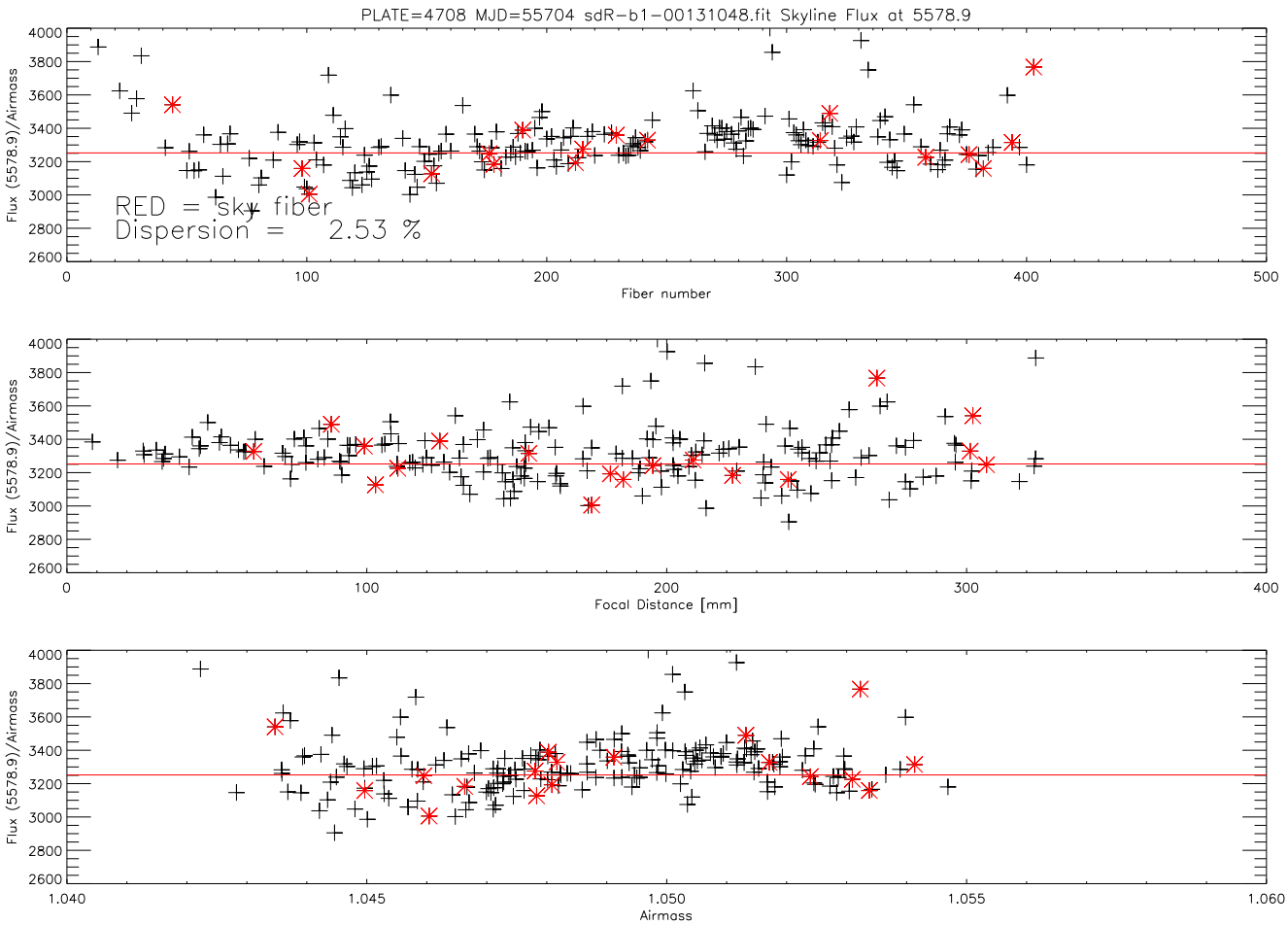

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

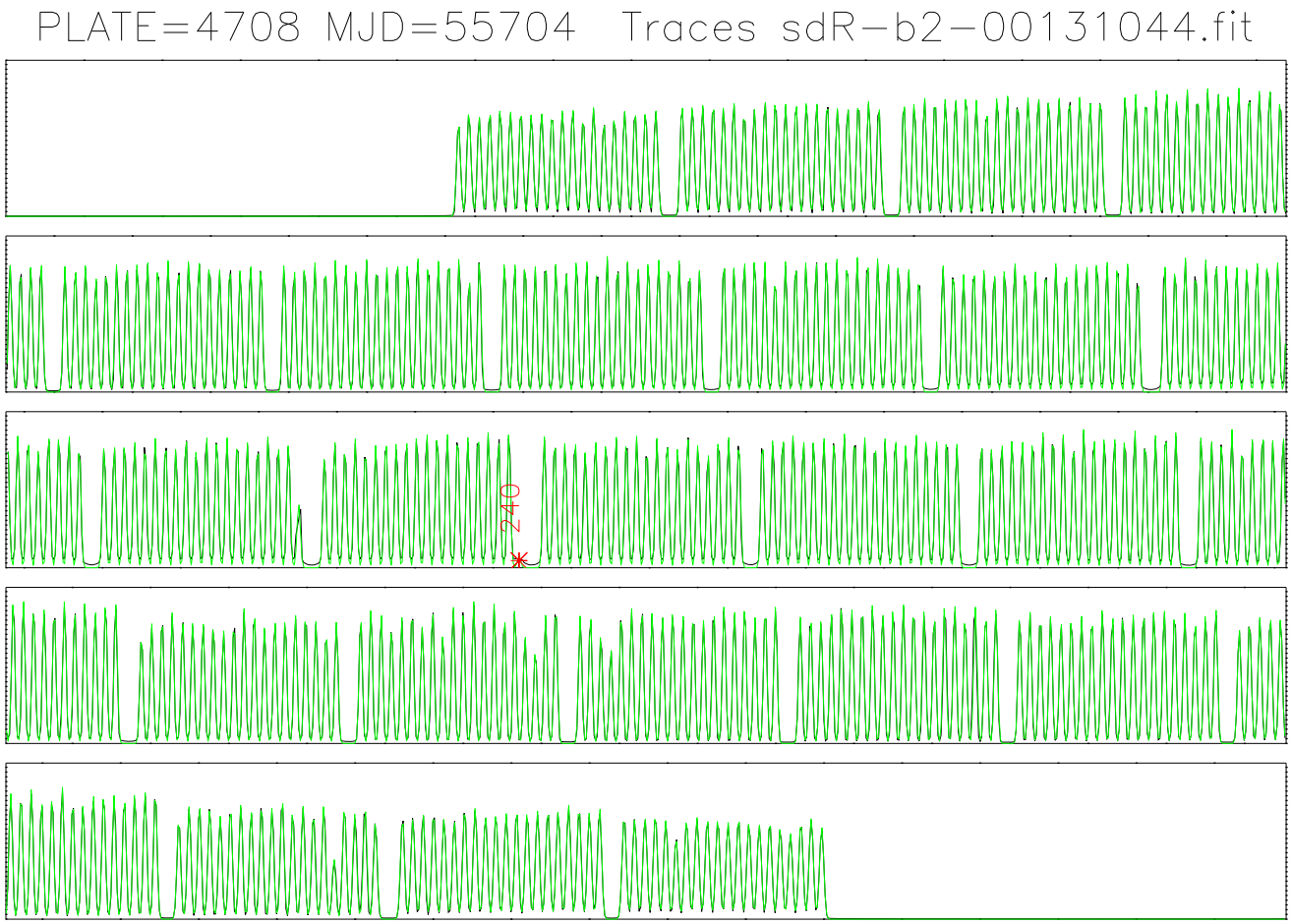

PLATE=4708 MJD=55704 sdR-b1-00131048.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

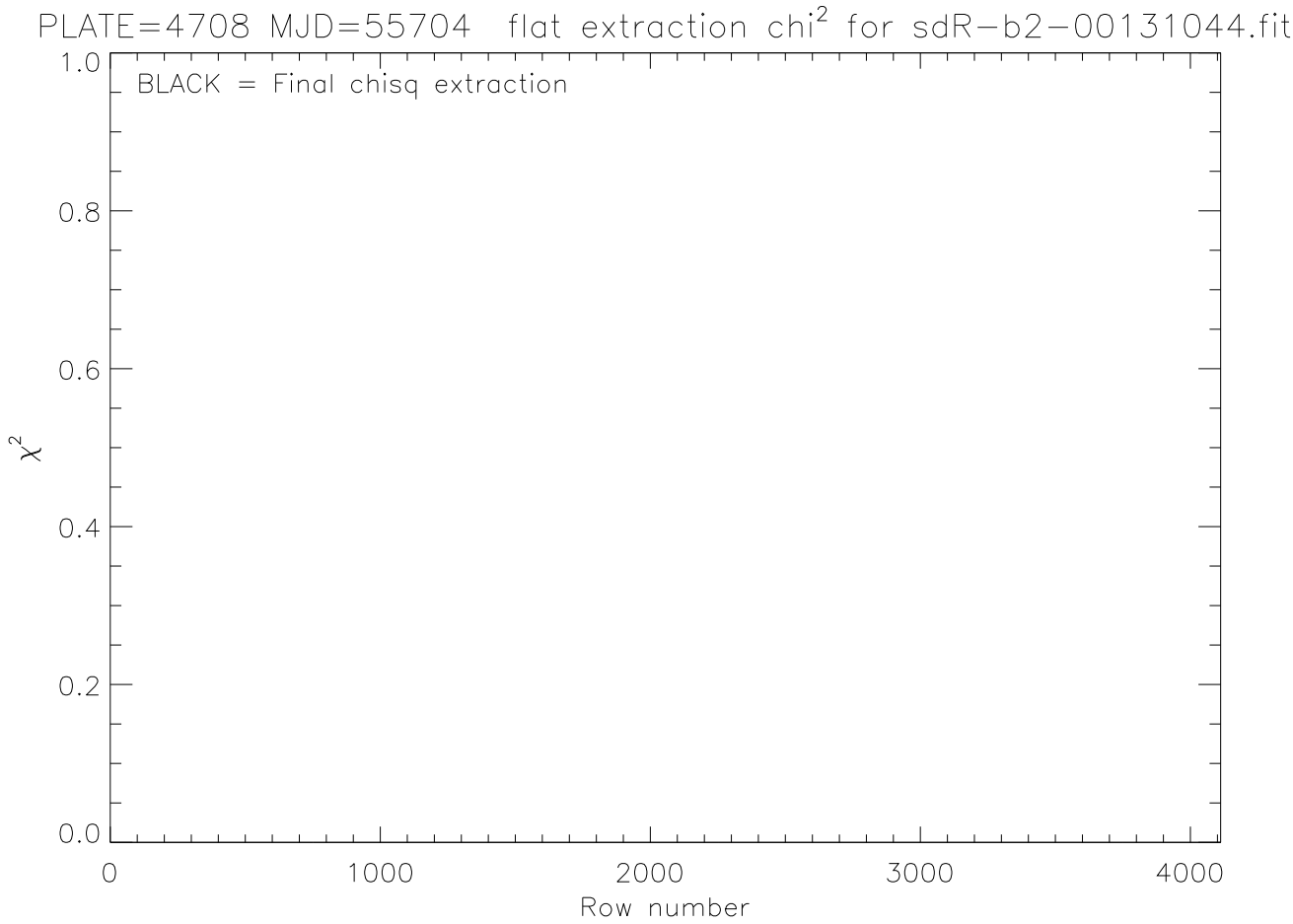
Number of sky fibers = 49

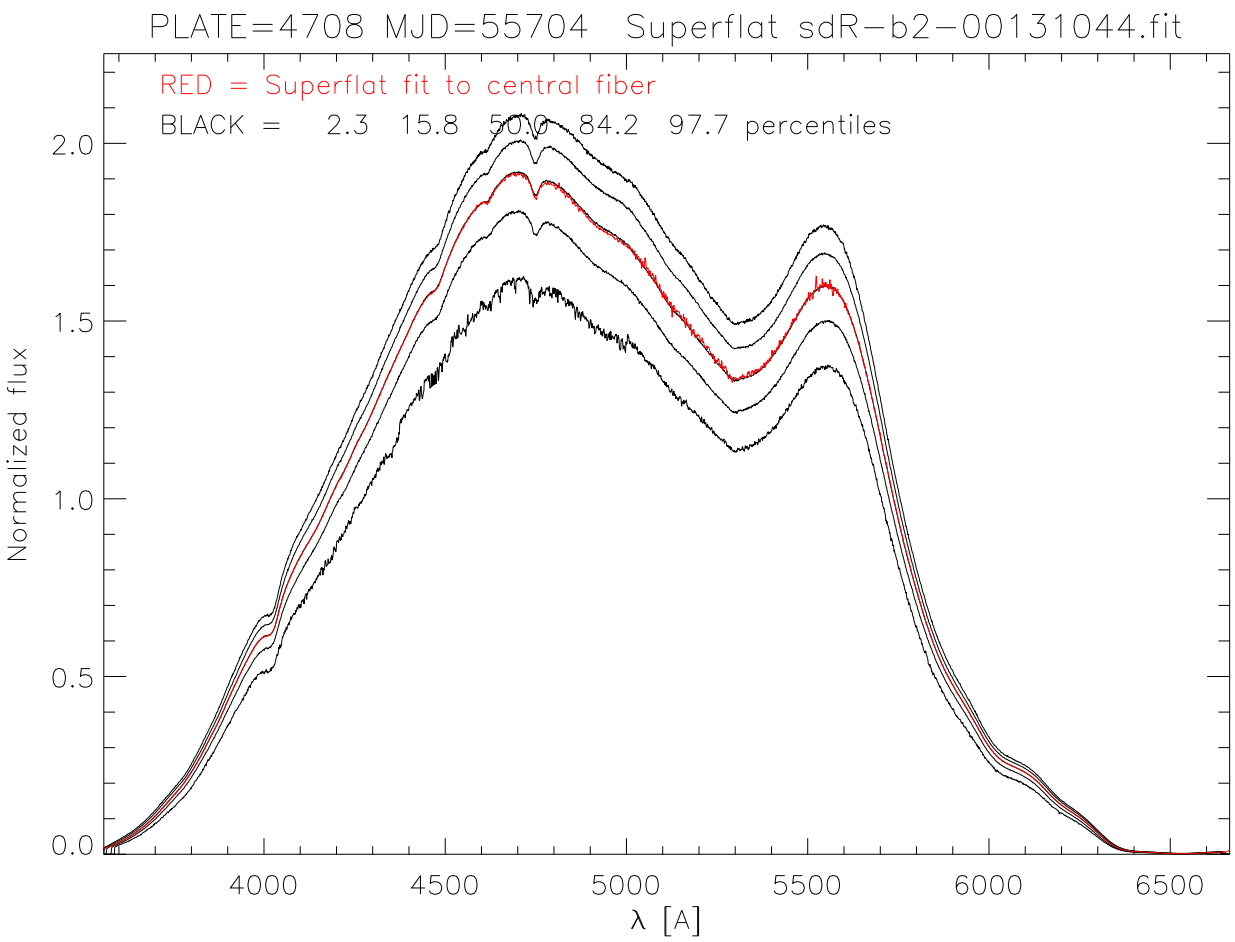


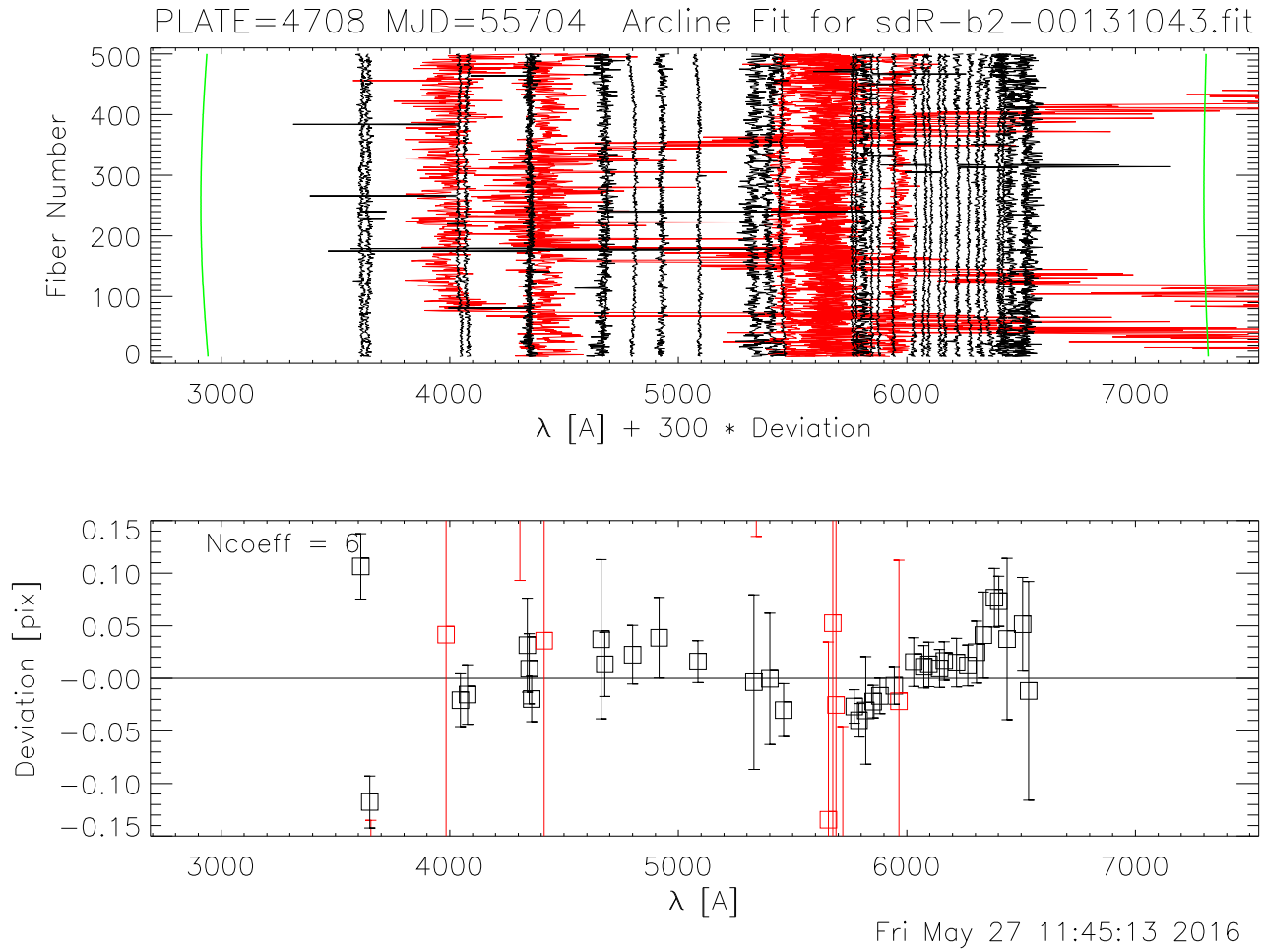

PLATE=4708 MJD=55704 sdR-b1-00131048.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.57 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

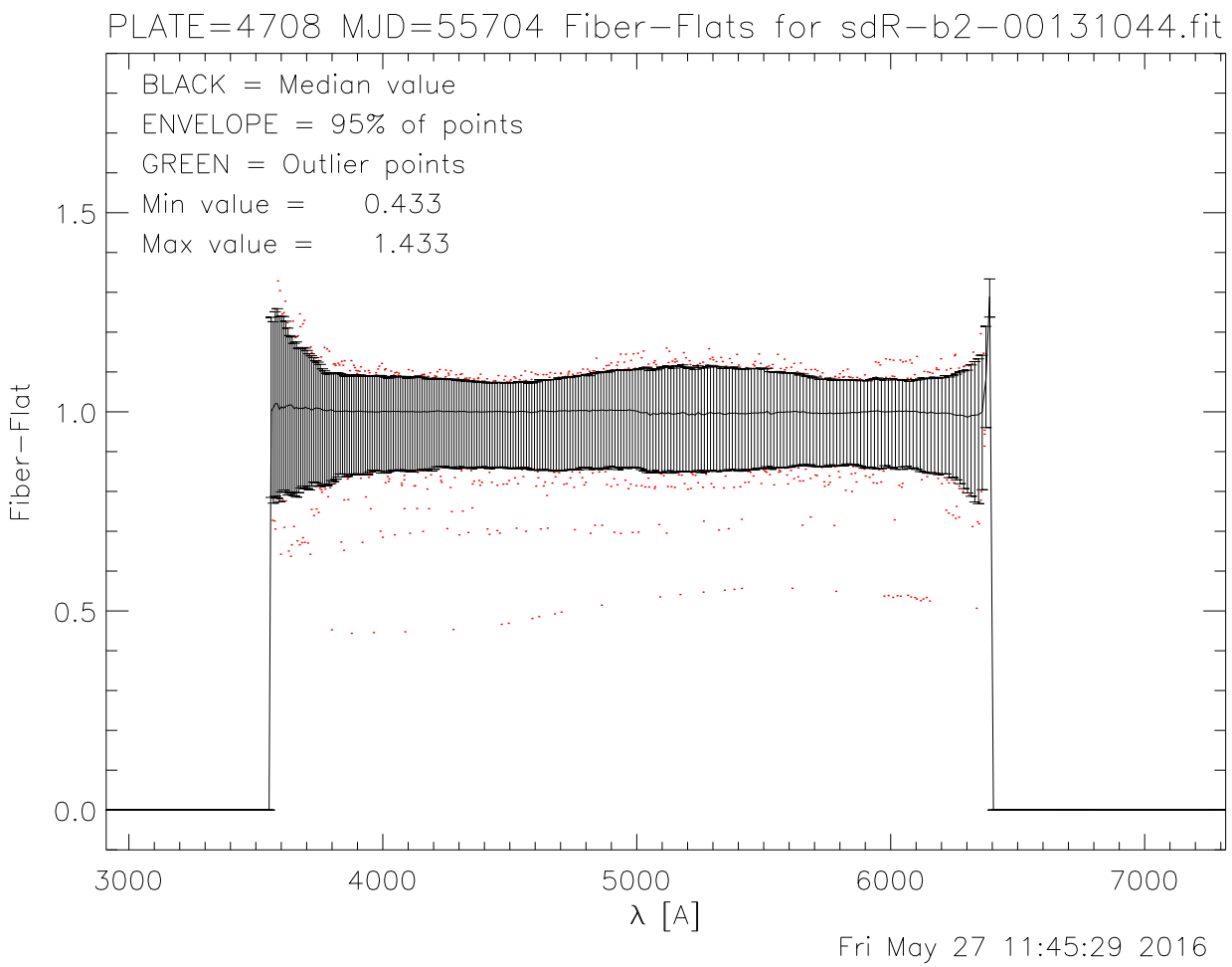

PLATE=4708 MJD=55704 sdR-b1-00131048.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

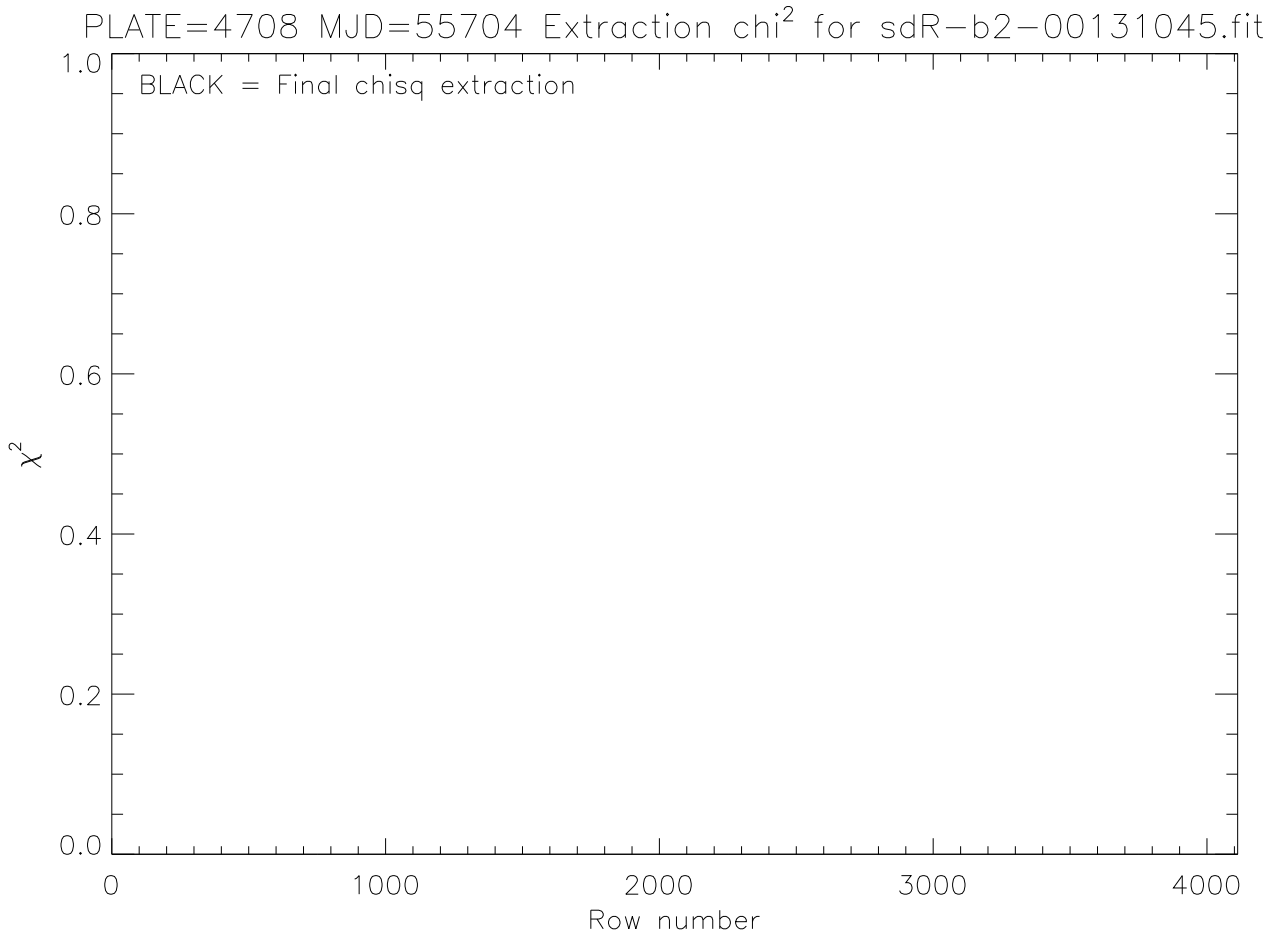

PLATE=4708 MJD=55704 Traces sdR-b2-00131044.fit
240

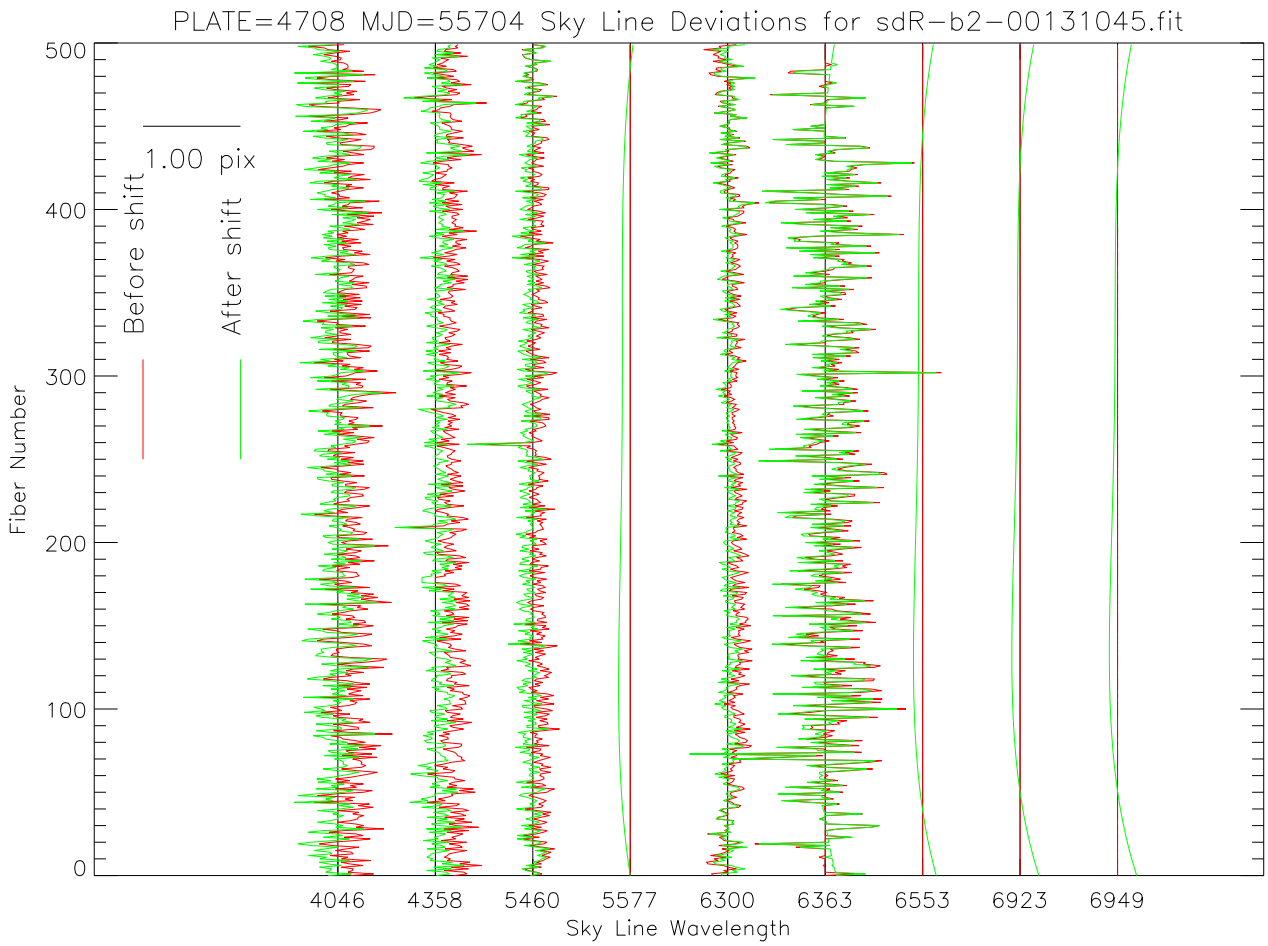

PLATE=4708 MJD=55704 flat extraction chi^2 for sdR−b2−00131044.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

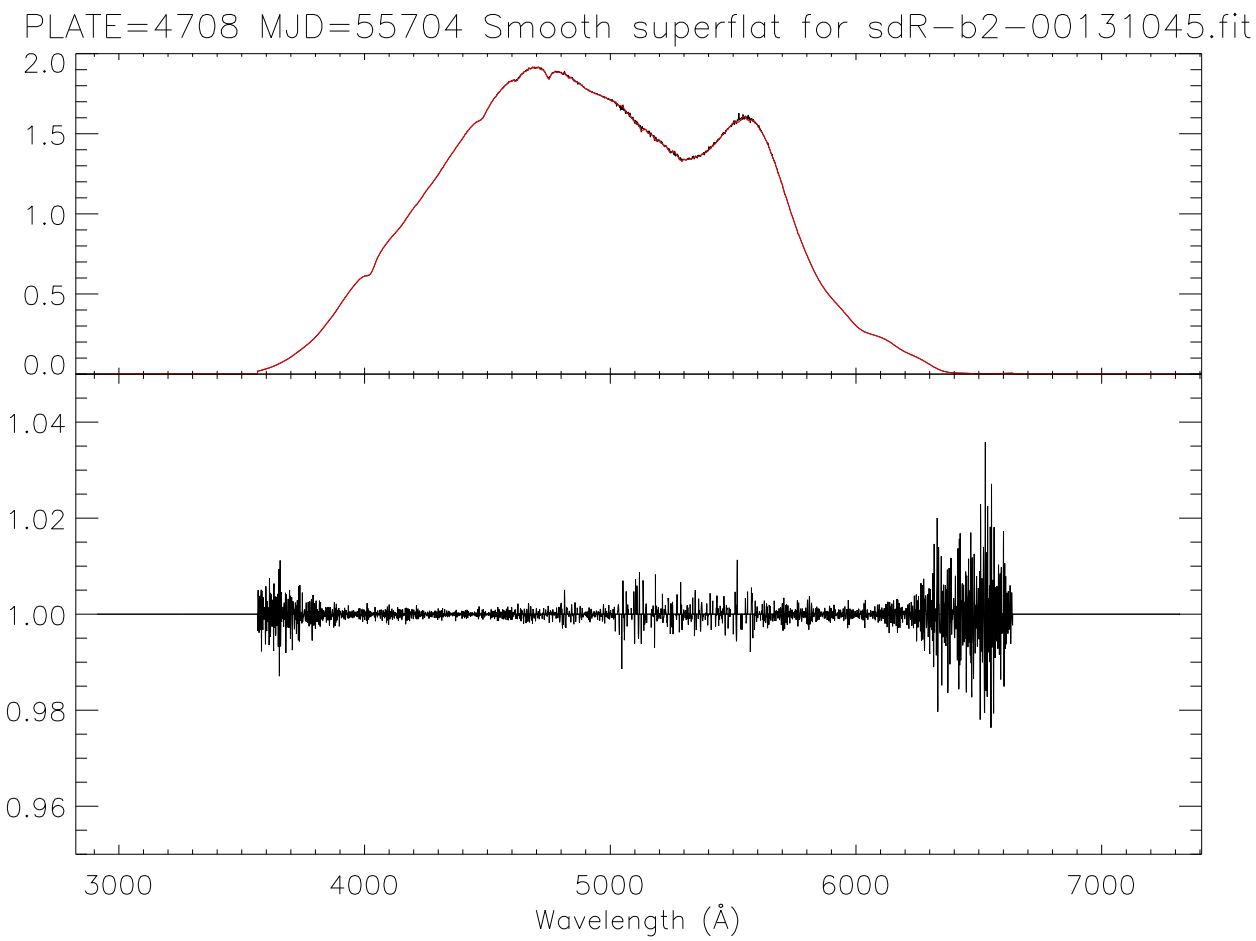

PLATE=4708 MJD=55704 Superflat sdR-b2-00131044.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

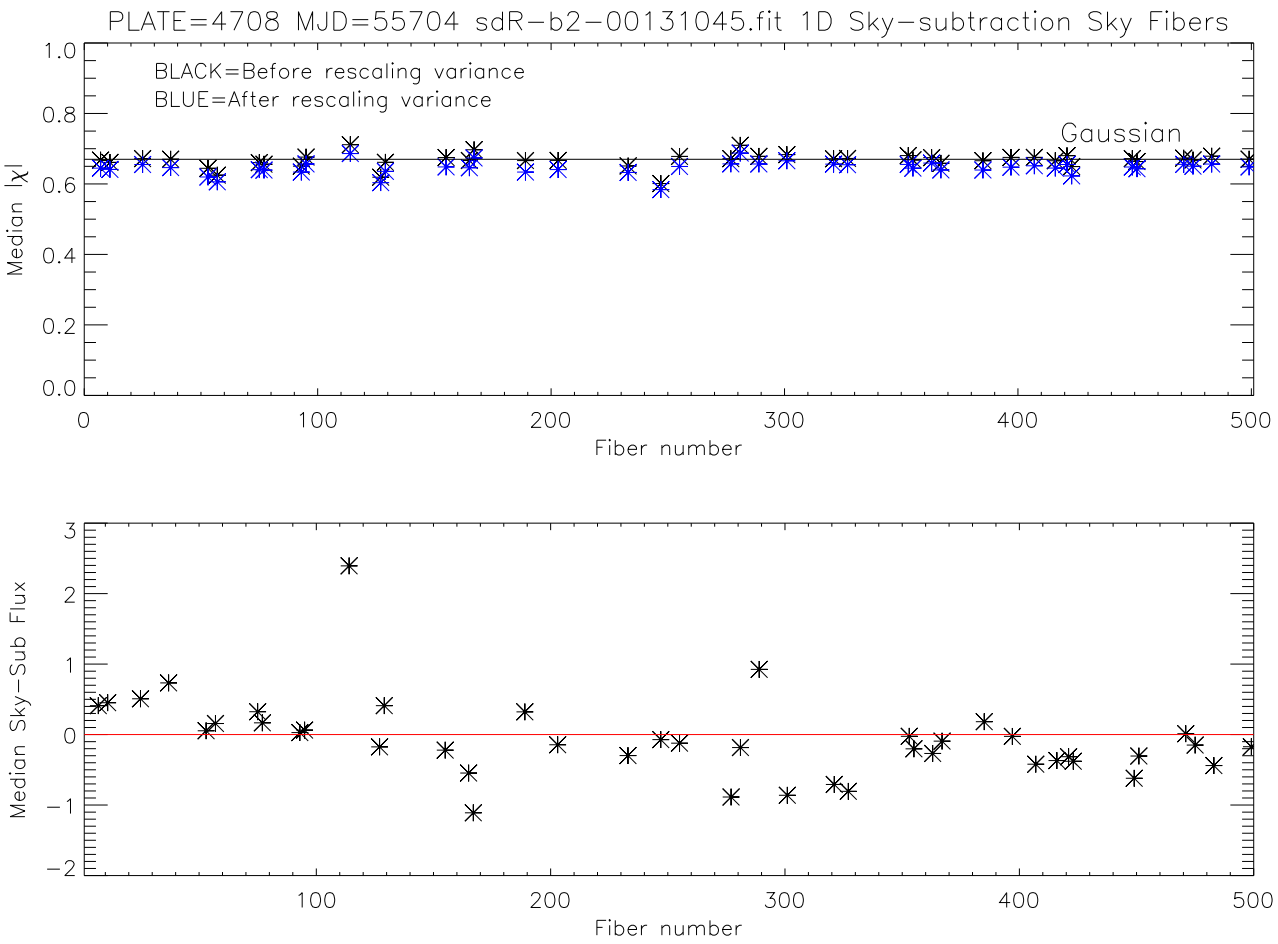

PLATE=4708 MJD=55704 Arcline Fit for sdR-b2-00131043.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:45:13 2016

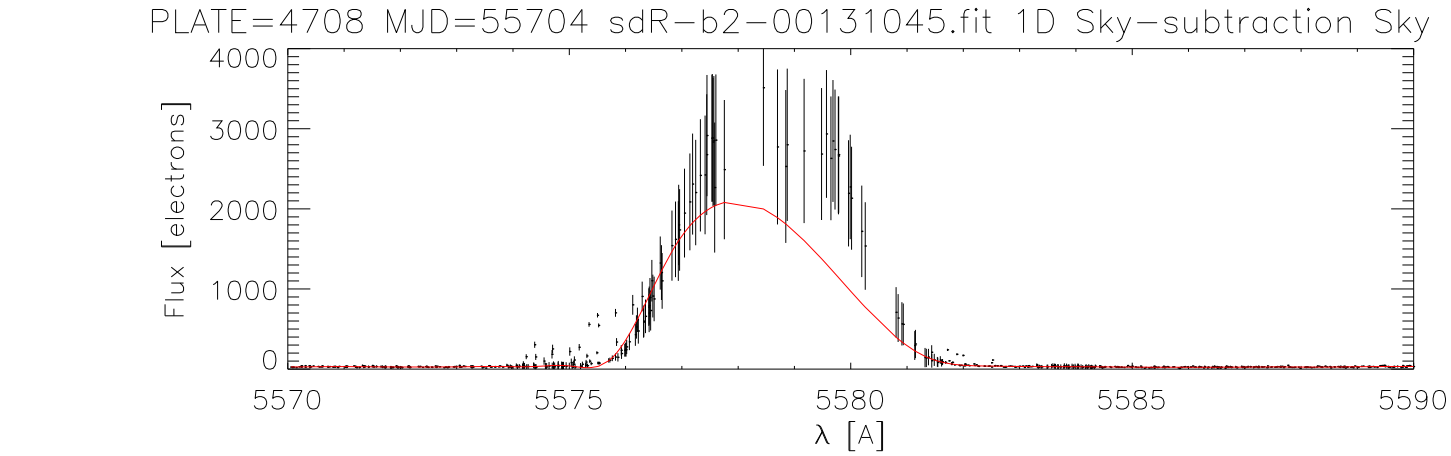

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.433
Max value = 1.433
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:45:29 2016

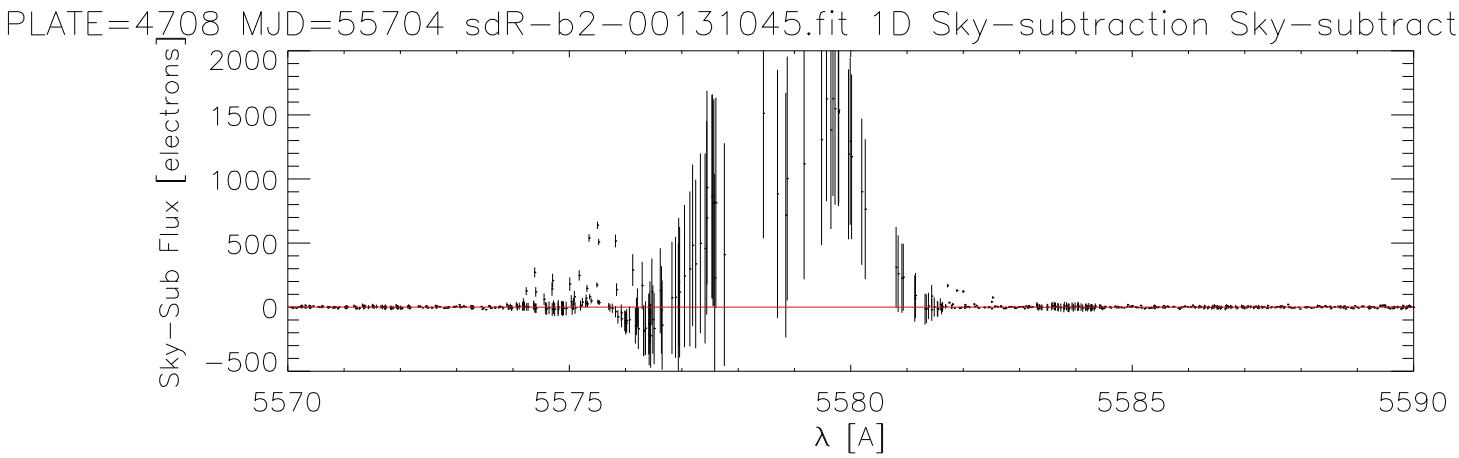

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b2-00131045.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b2-00131045.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

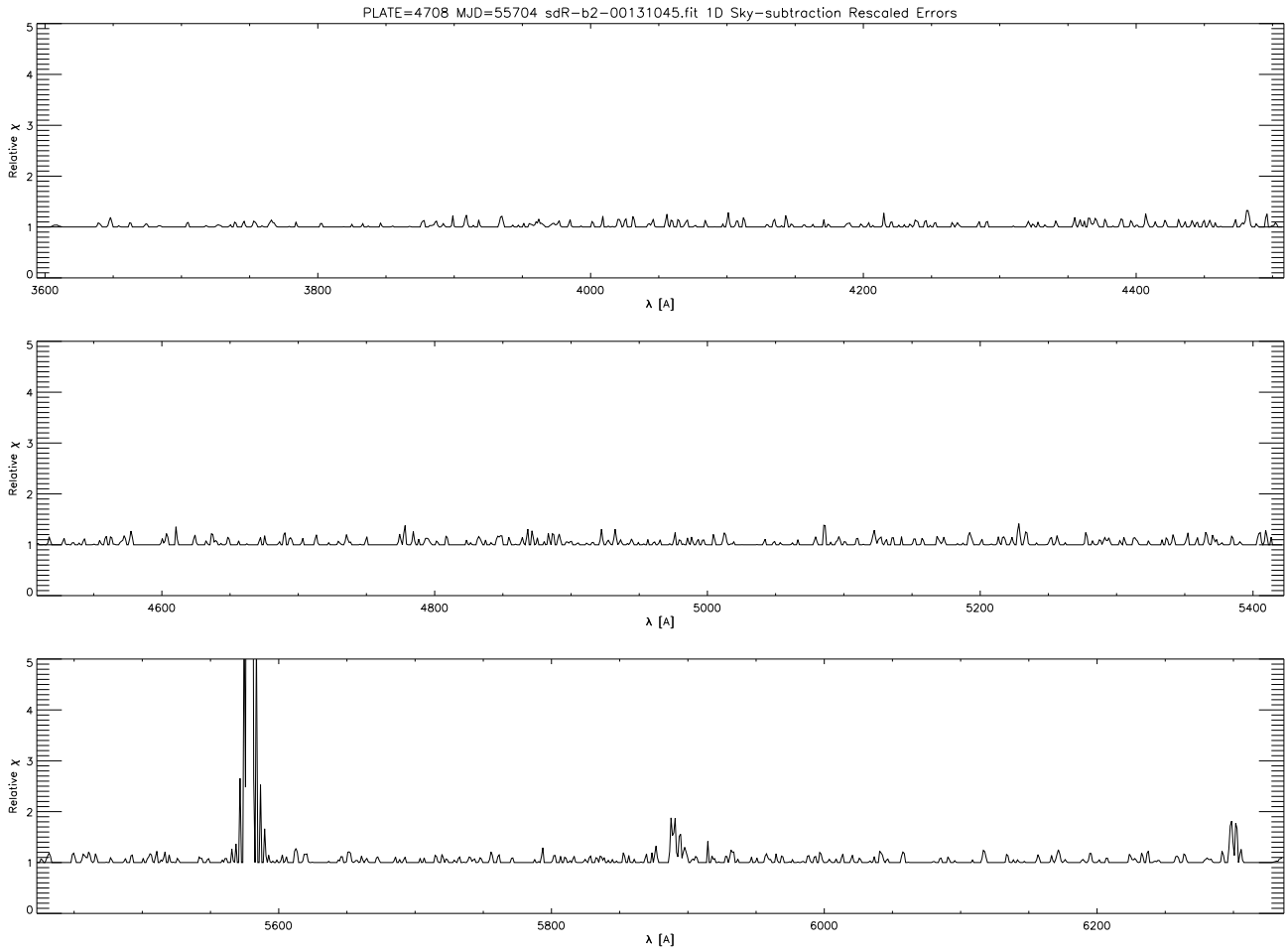

PLATE=4708 MJD=55704 Smooth superflat for sdR-b2-00131045.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

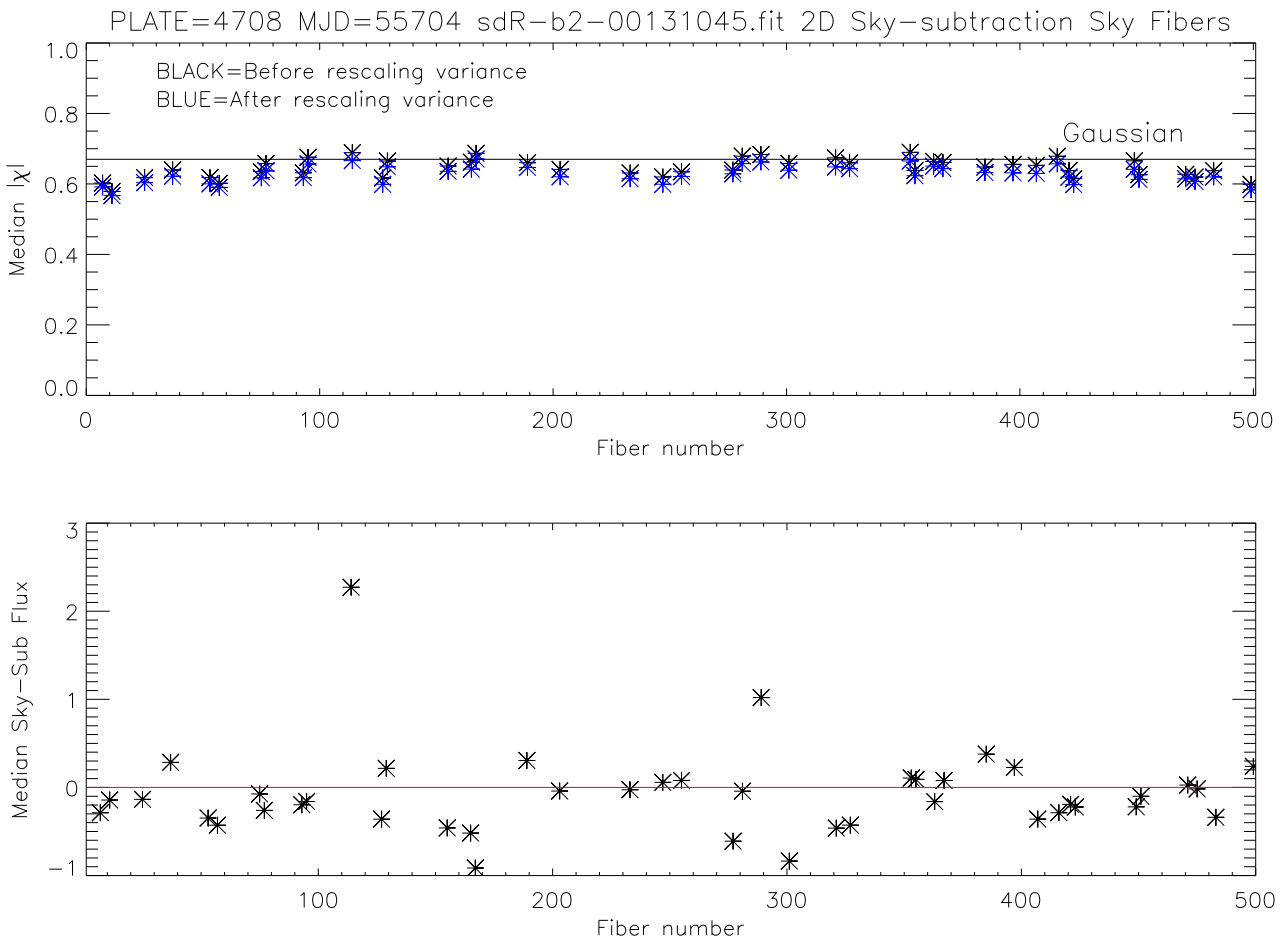

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

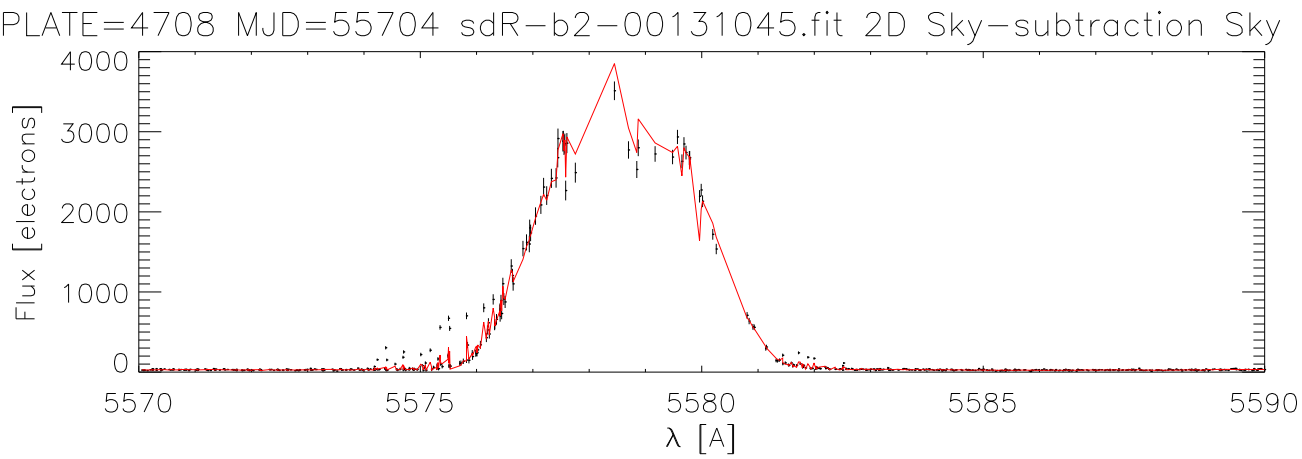

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

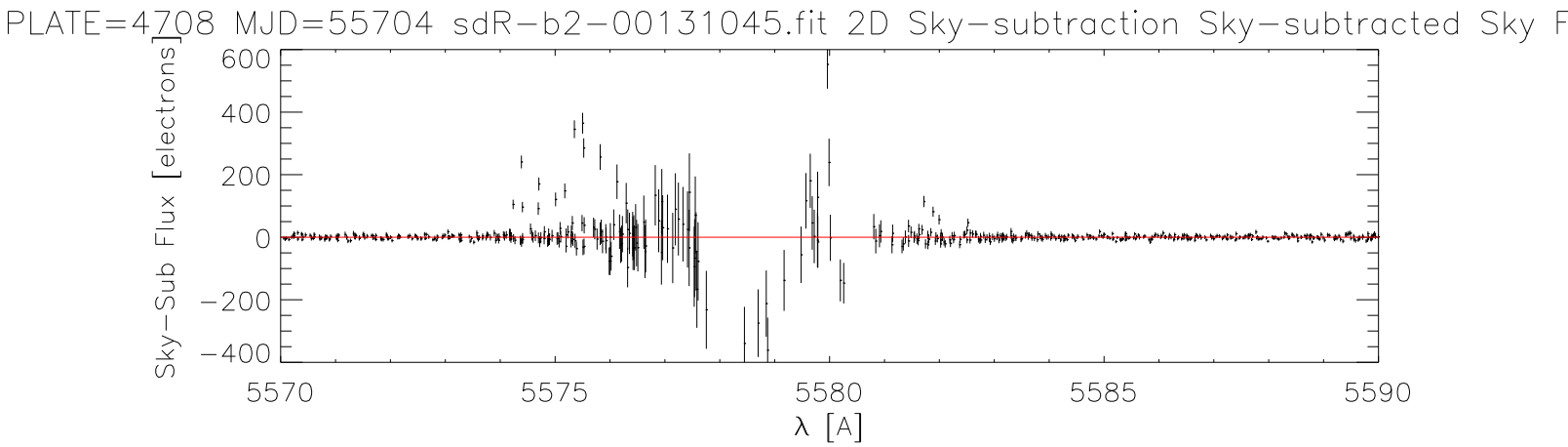

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

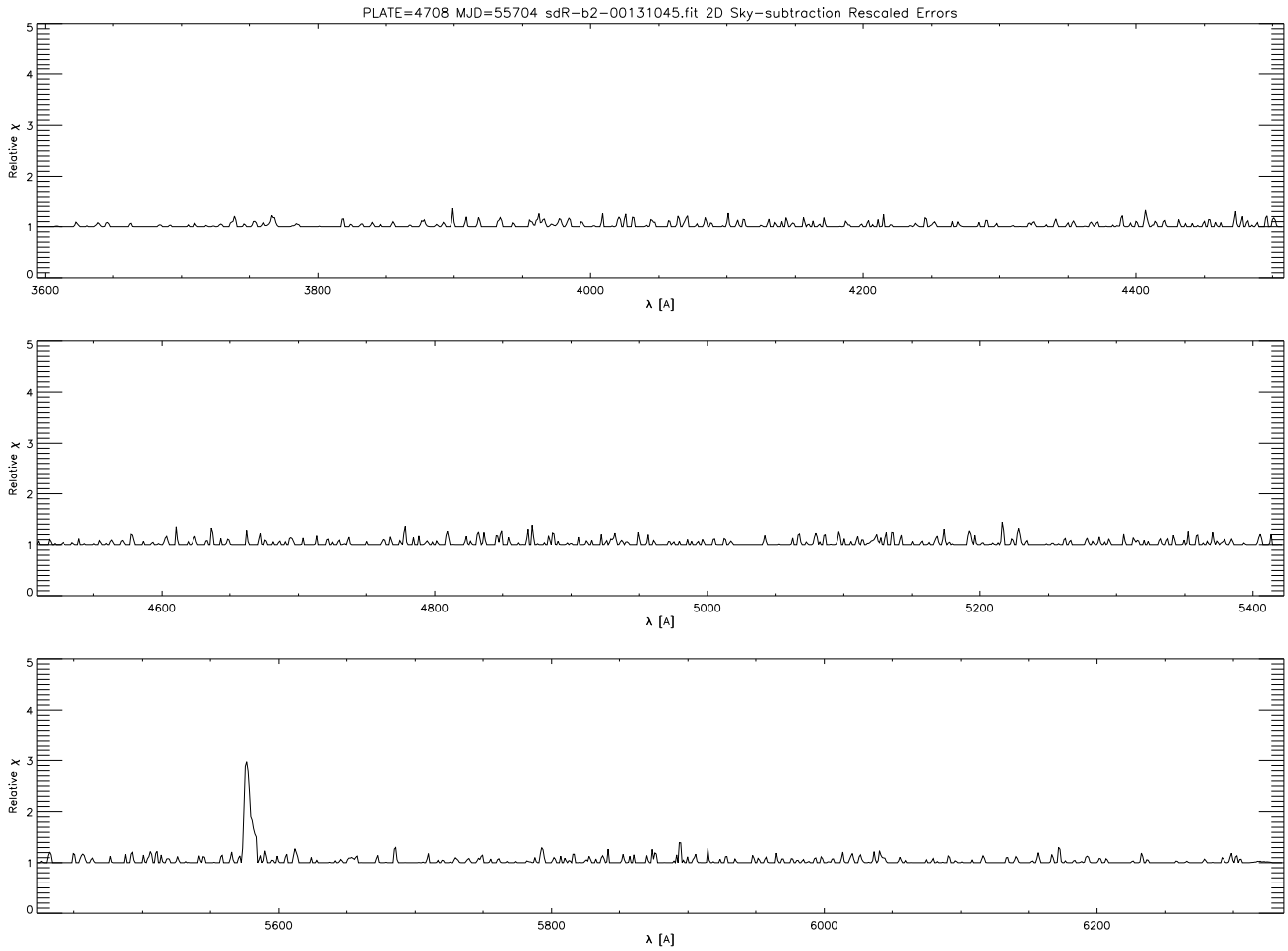


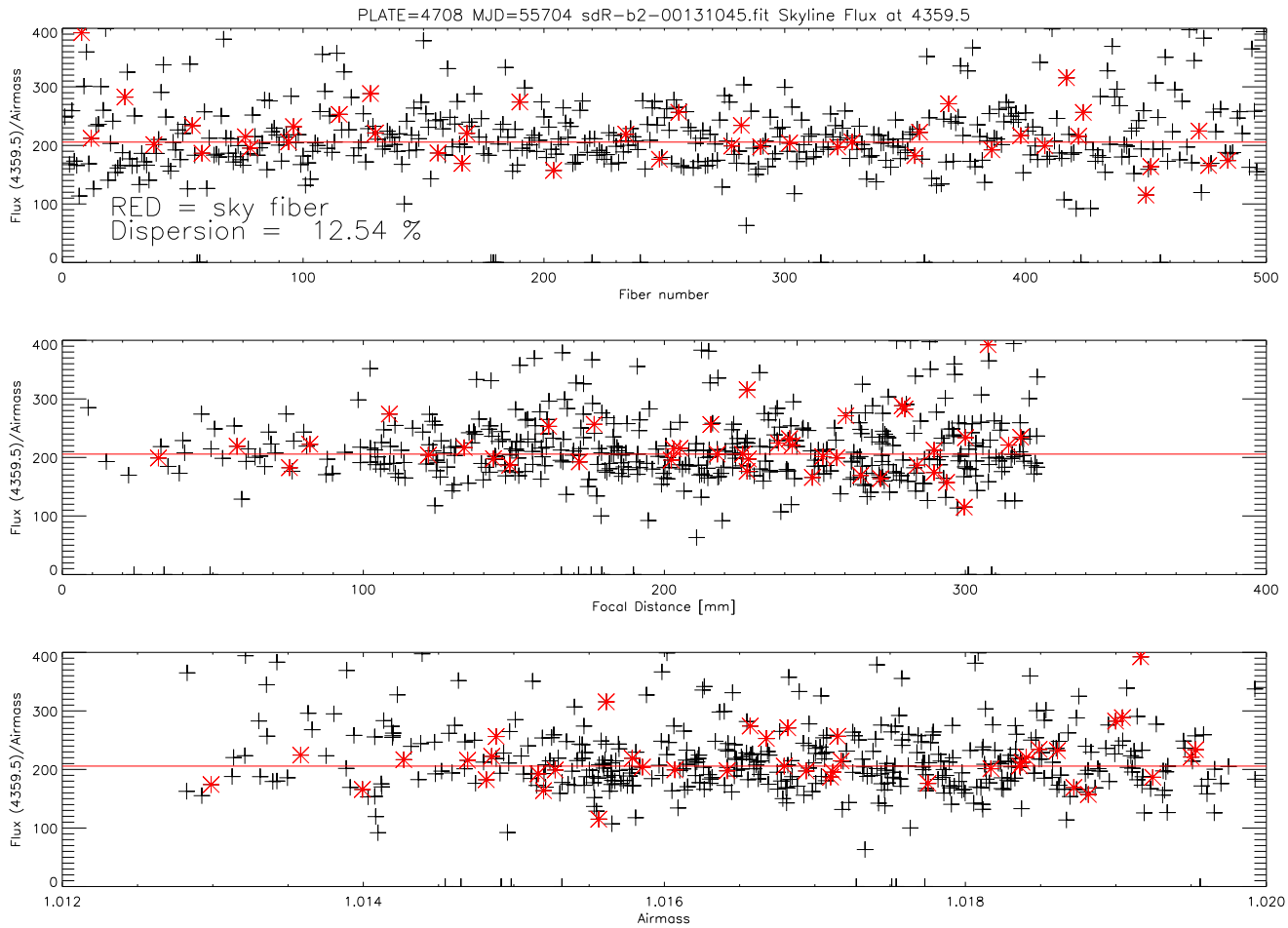

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

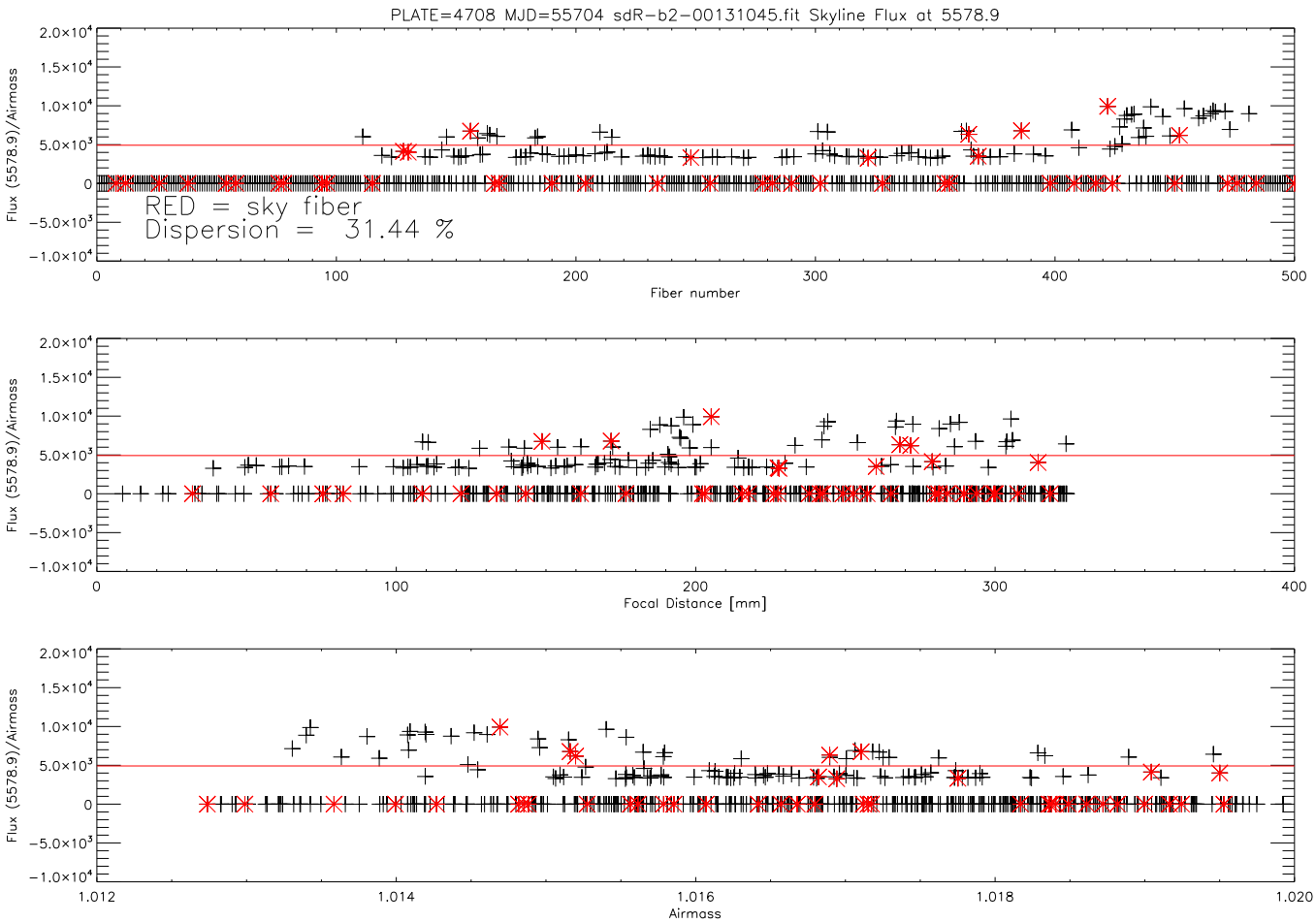

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

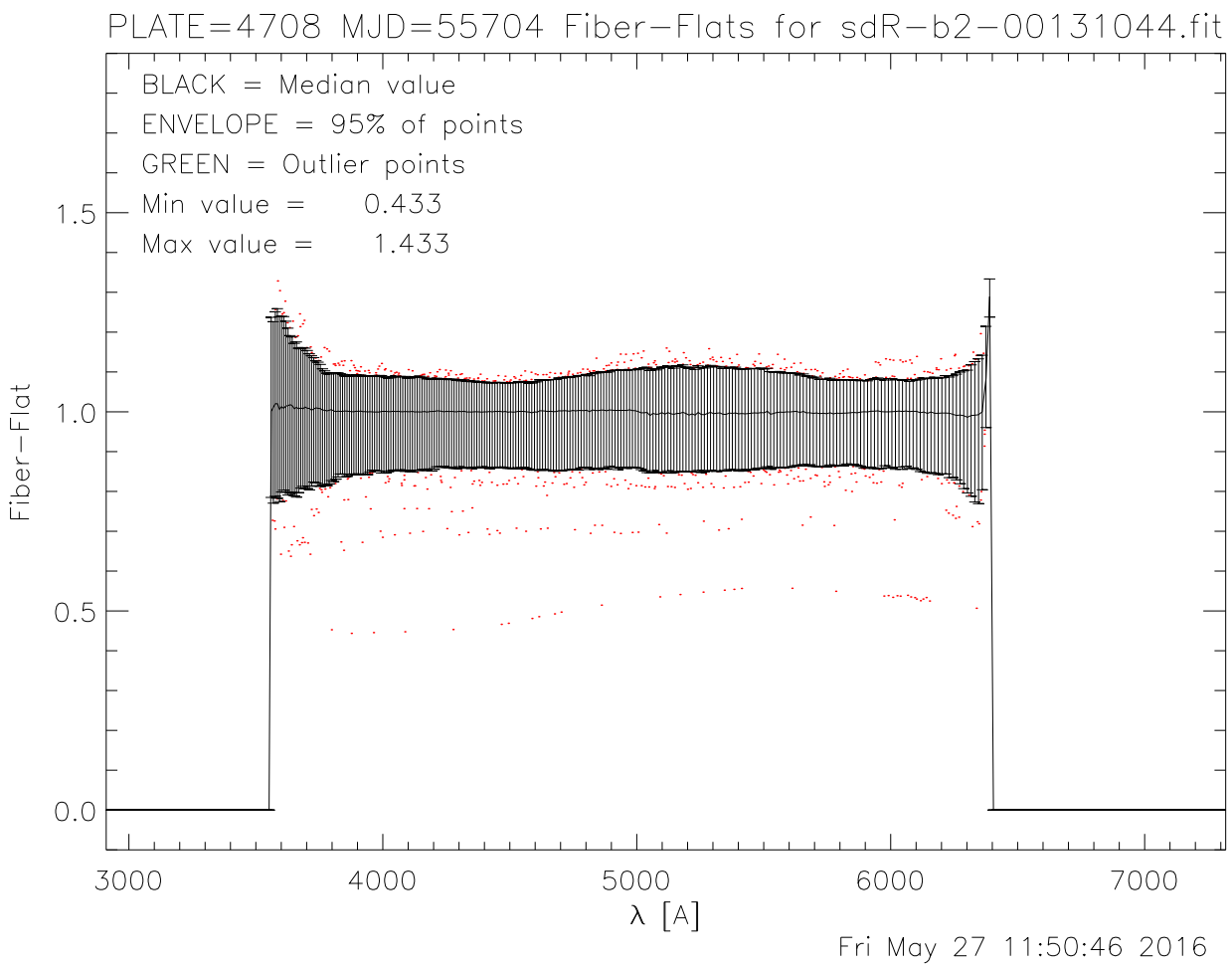

PLATE=4708 MJD=55704 sdR-b2-00131045.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

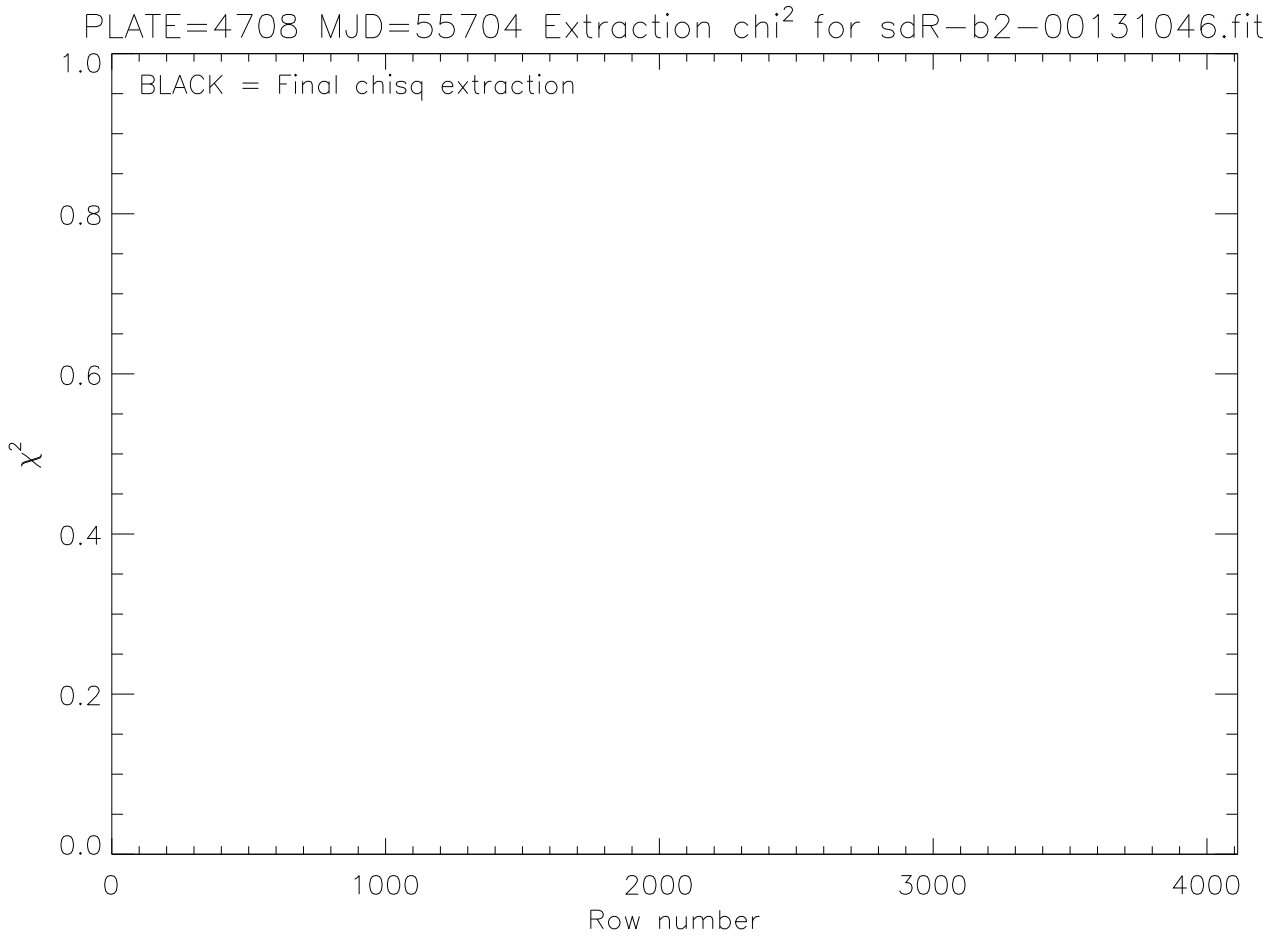
Number of sky fibers = 43

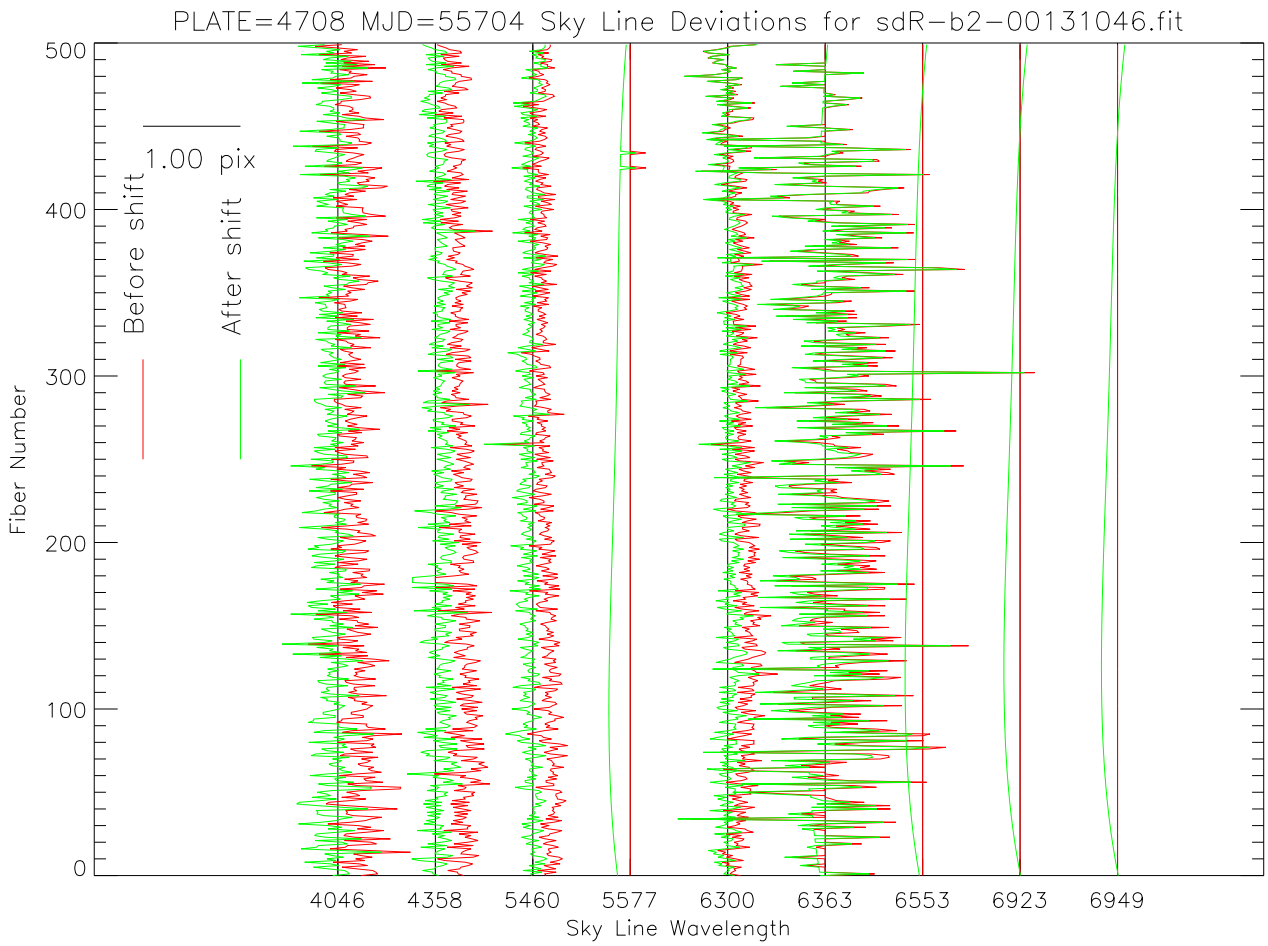


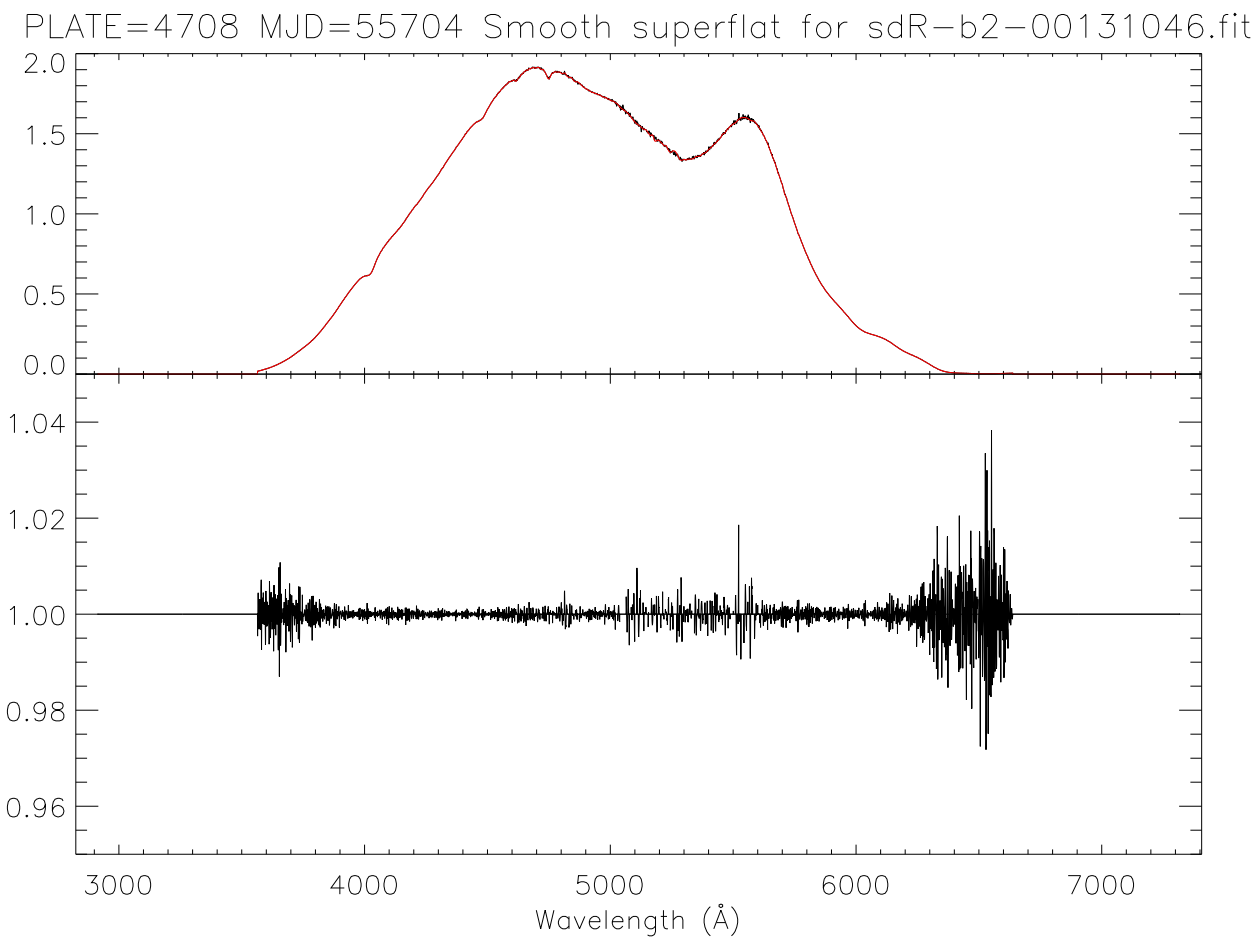

PLATE=4708 MJD=55704 sdR-b2-00131045.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.54 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

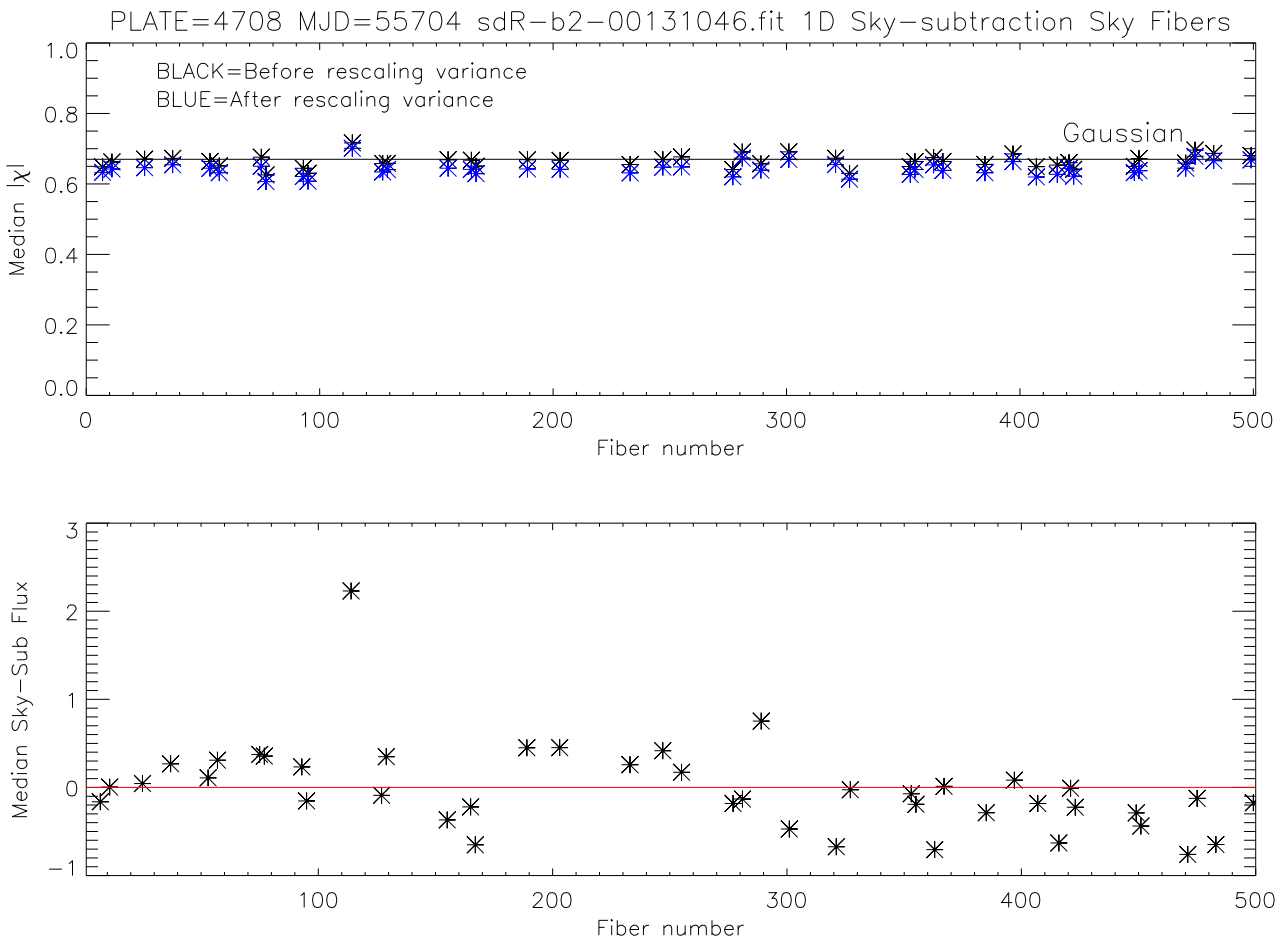

PLATE=4708 MJD=55704 sdR-b2-00131045.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 31.44 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

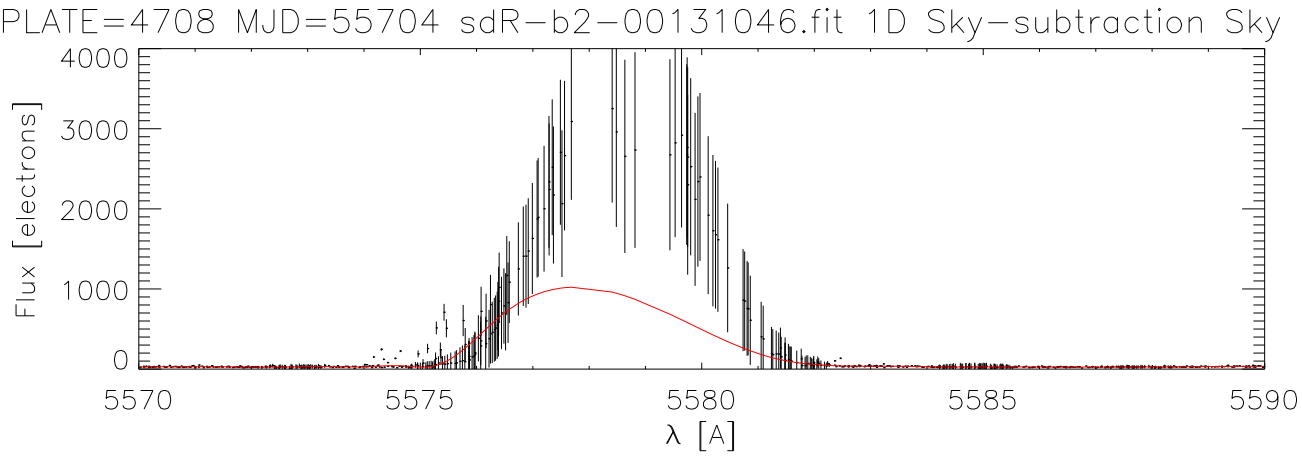

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.433
Max value = 1.433
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:50:46 2016

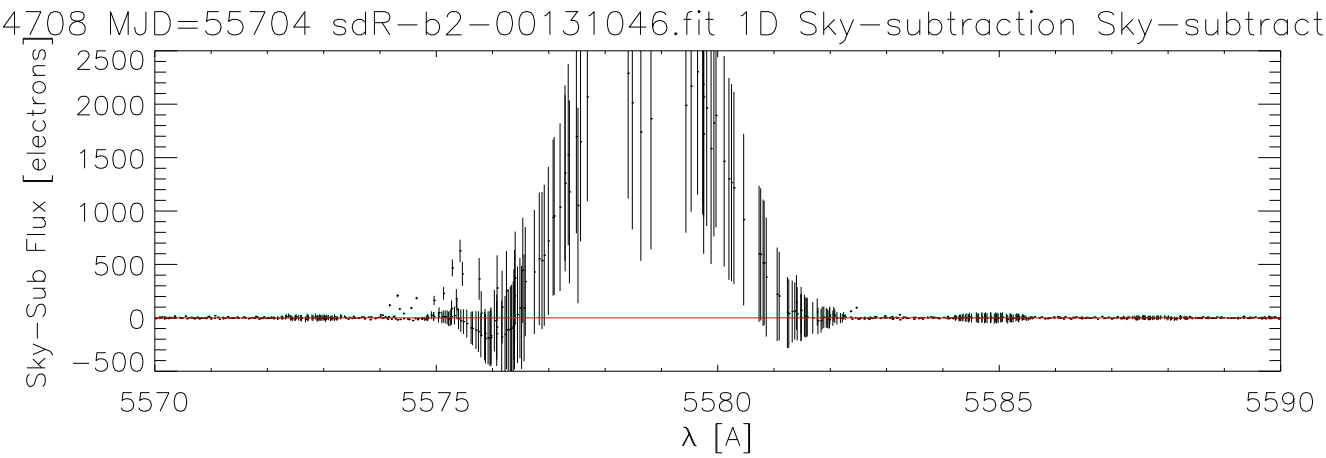

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b2-00131046.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b2-00131046.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

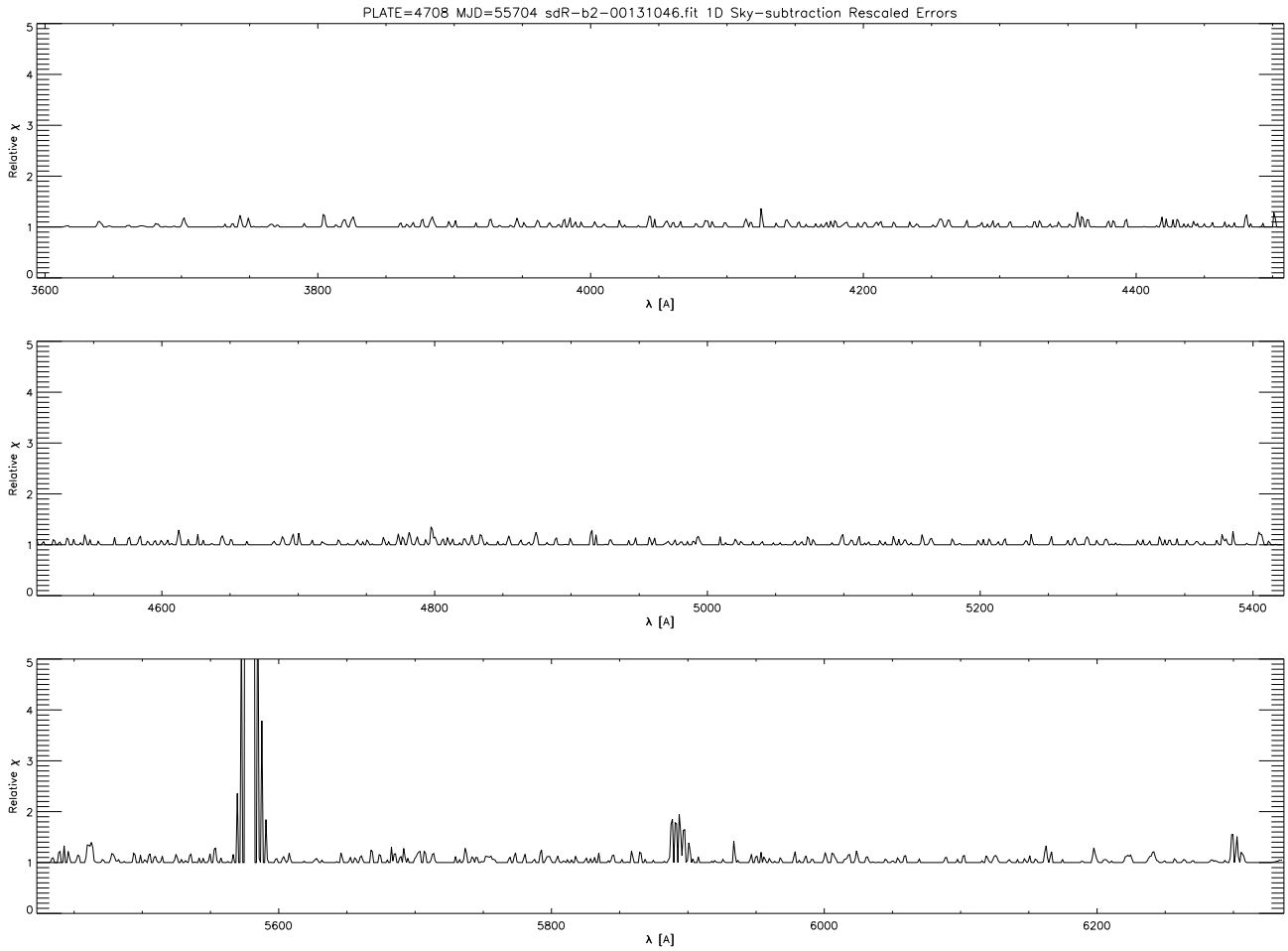

PLATE=4708 MJD=55704 Smooth superflat for sdR-b2-00131046.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

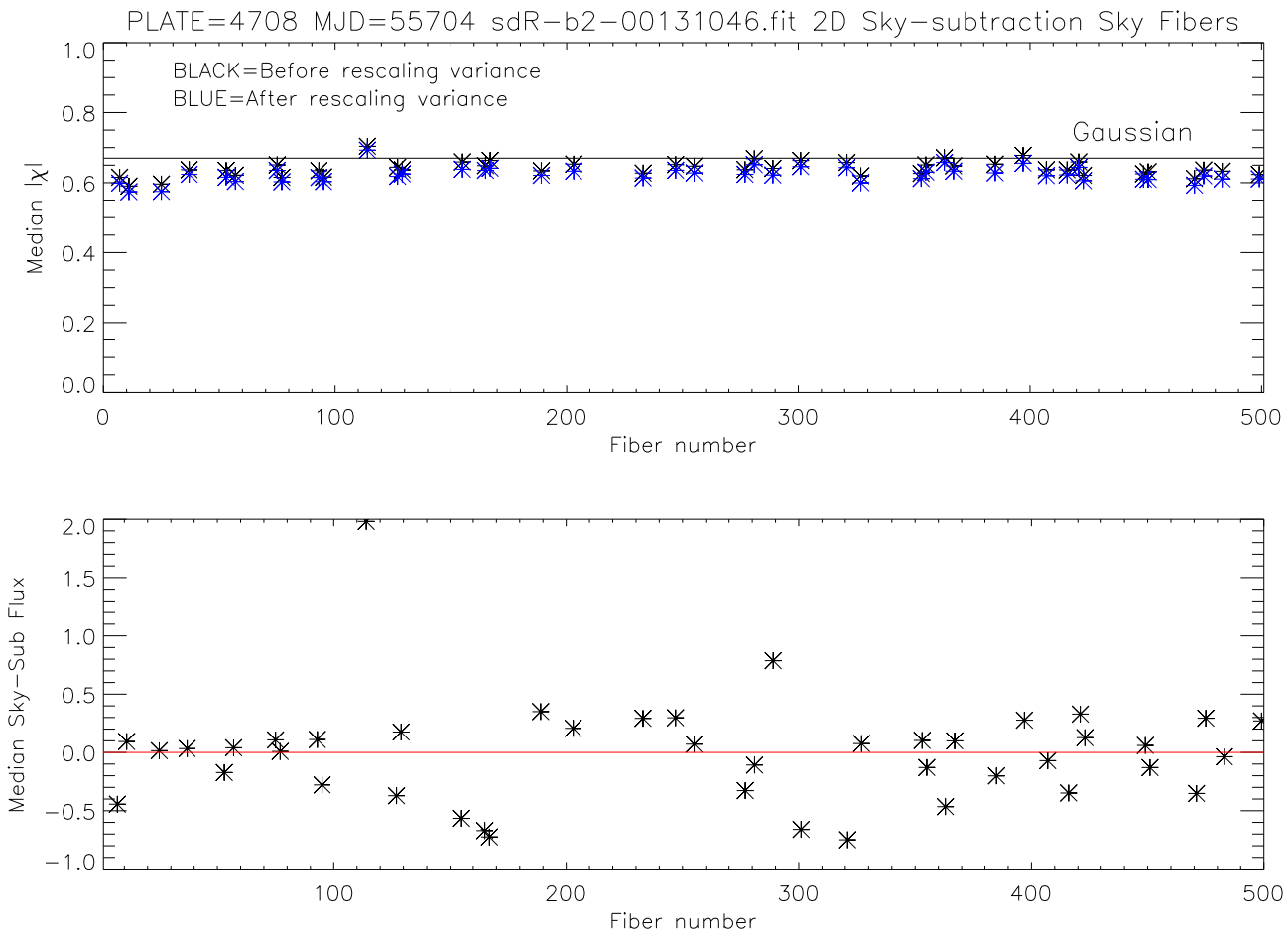

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

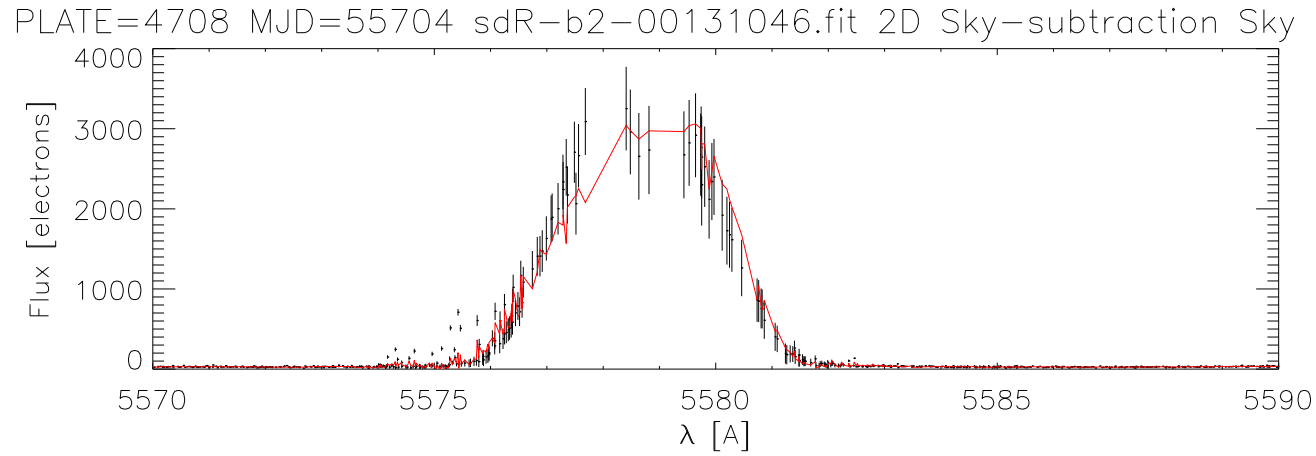

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

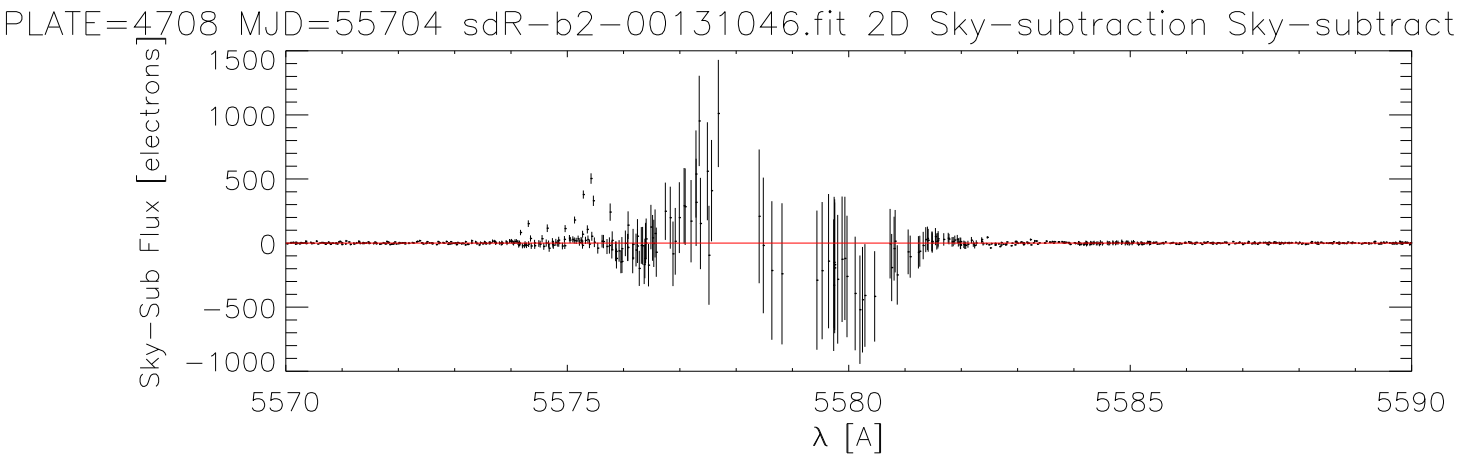

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

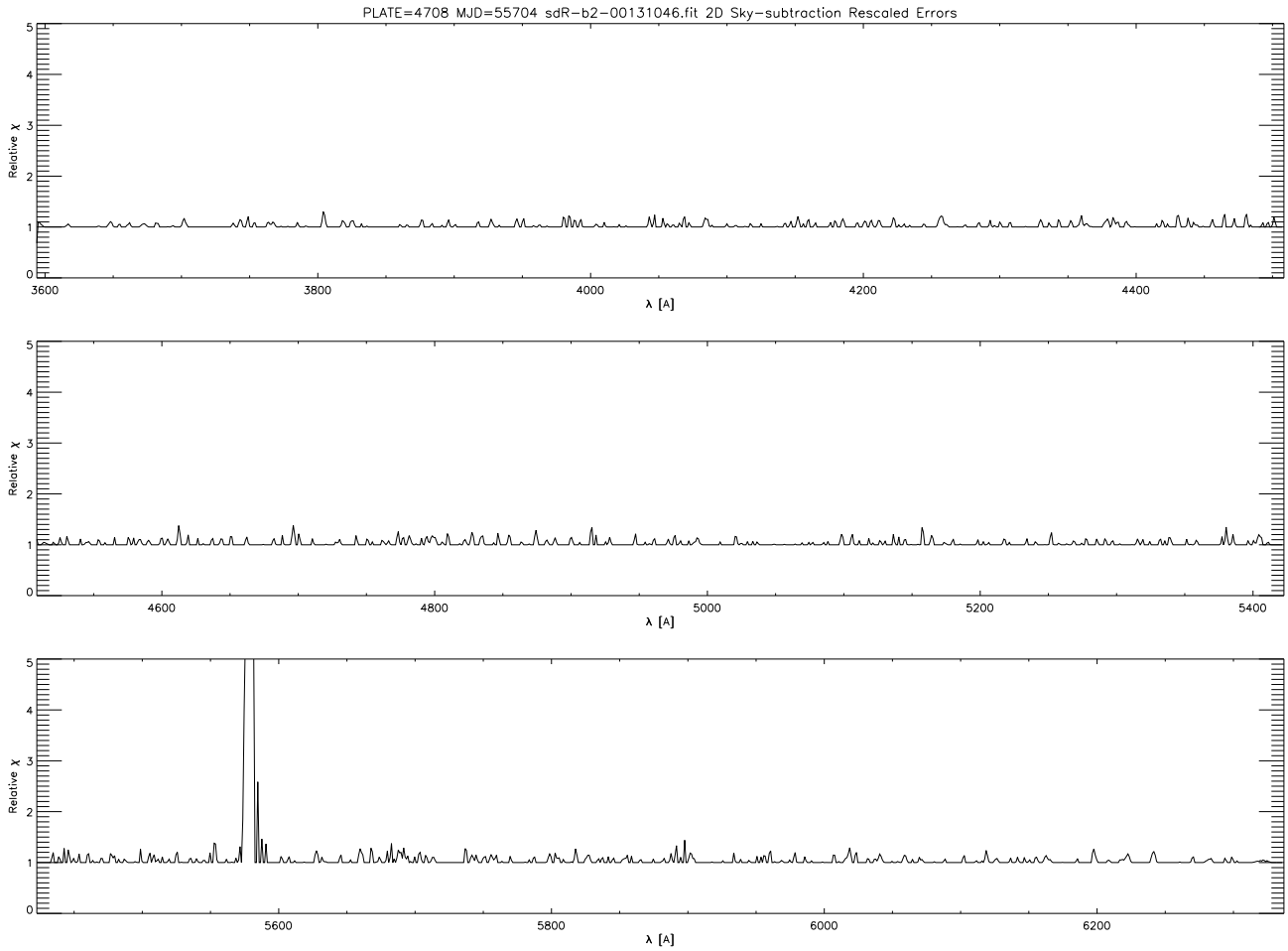


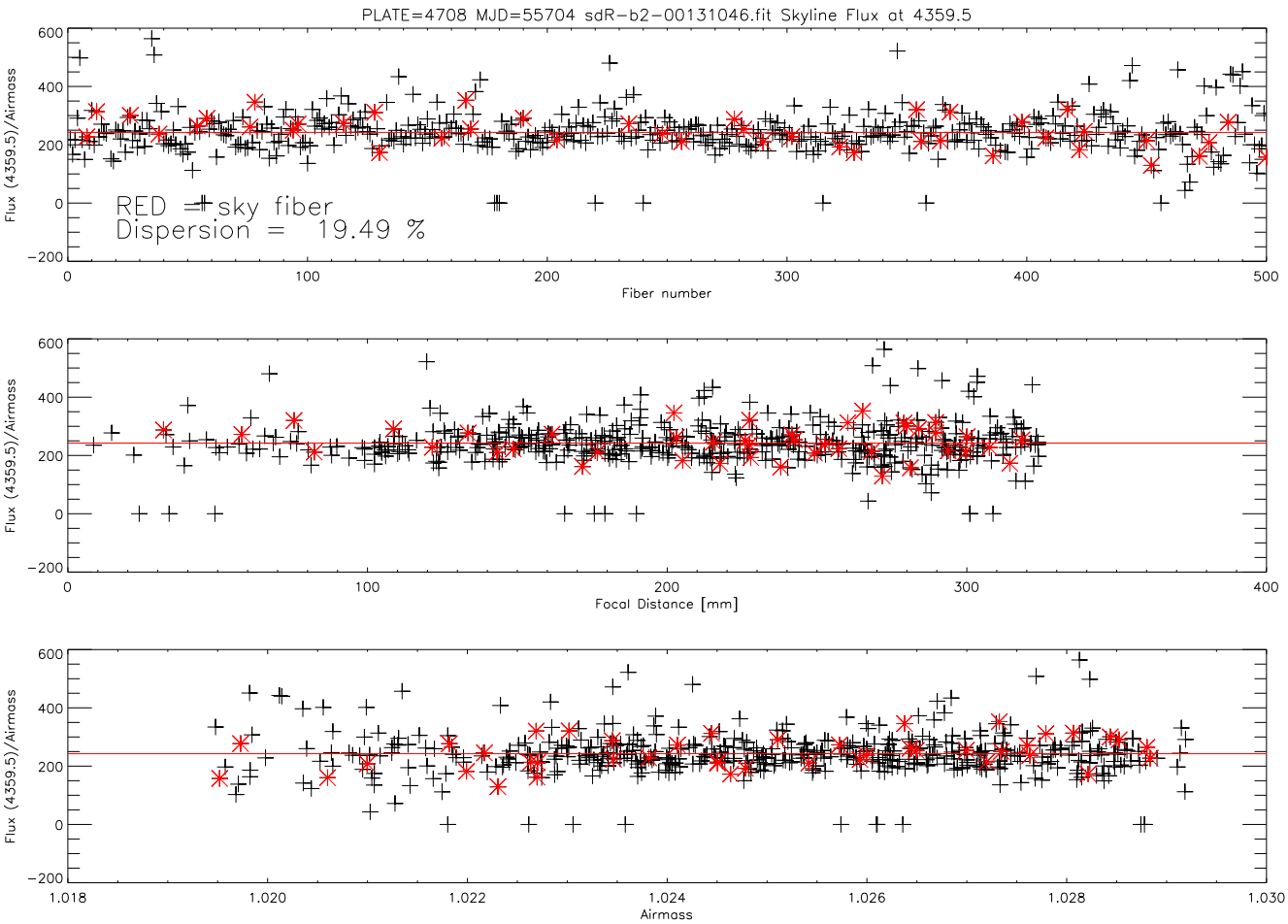

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

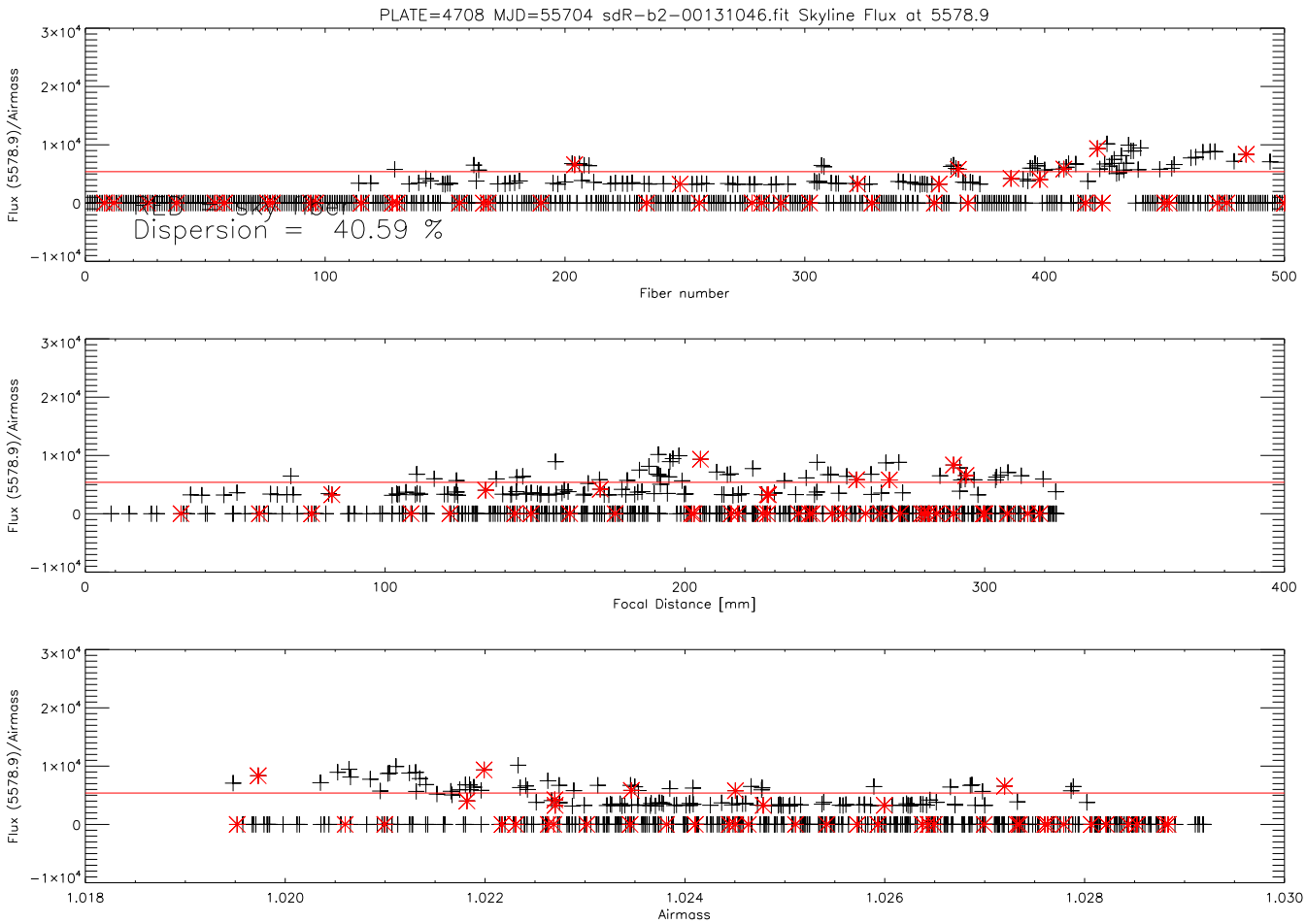

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

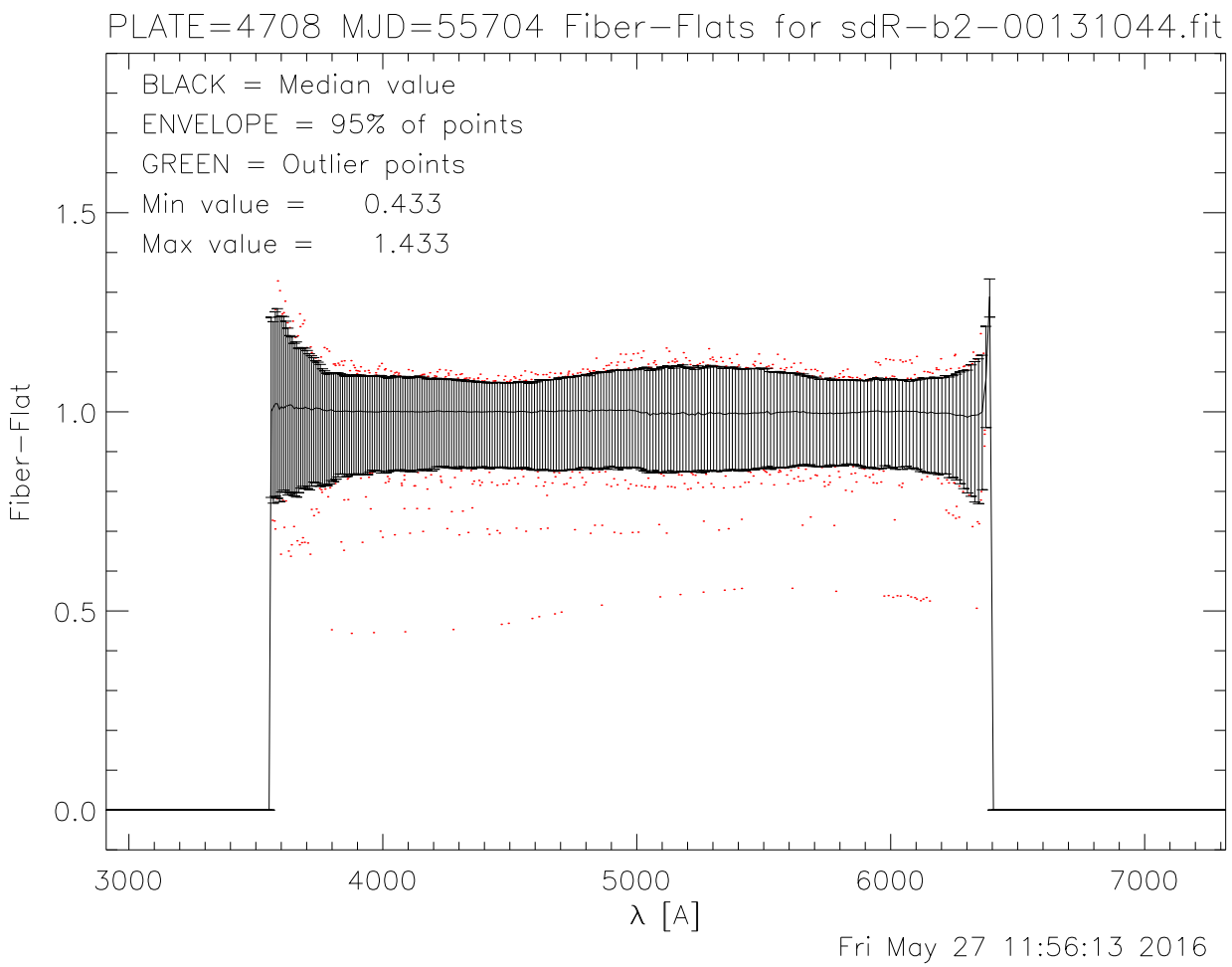

PLATE=4708 MJD=55704 sdR-b2-00131046.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

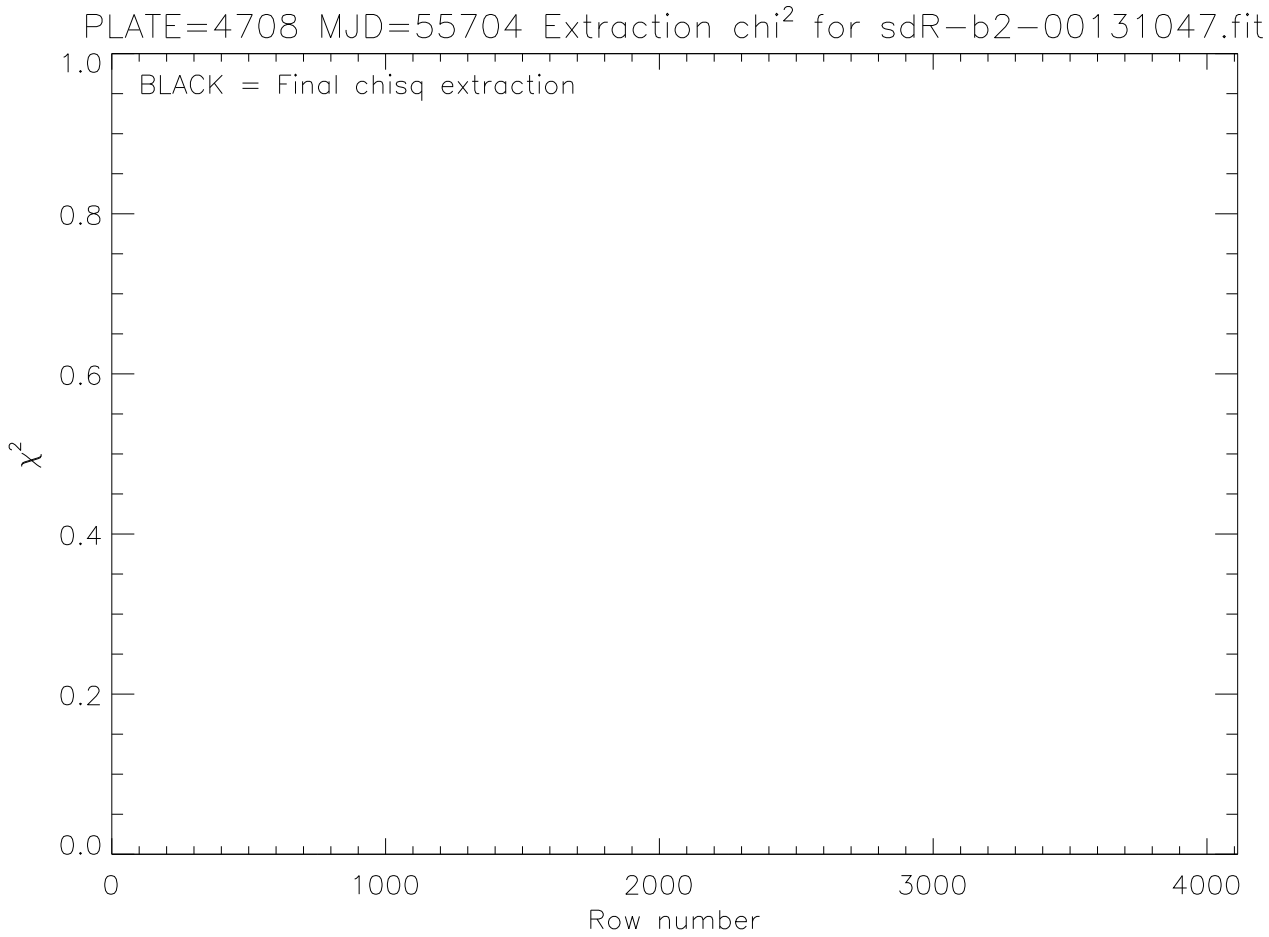
Number of sky fibers = 43

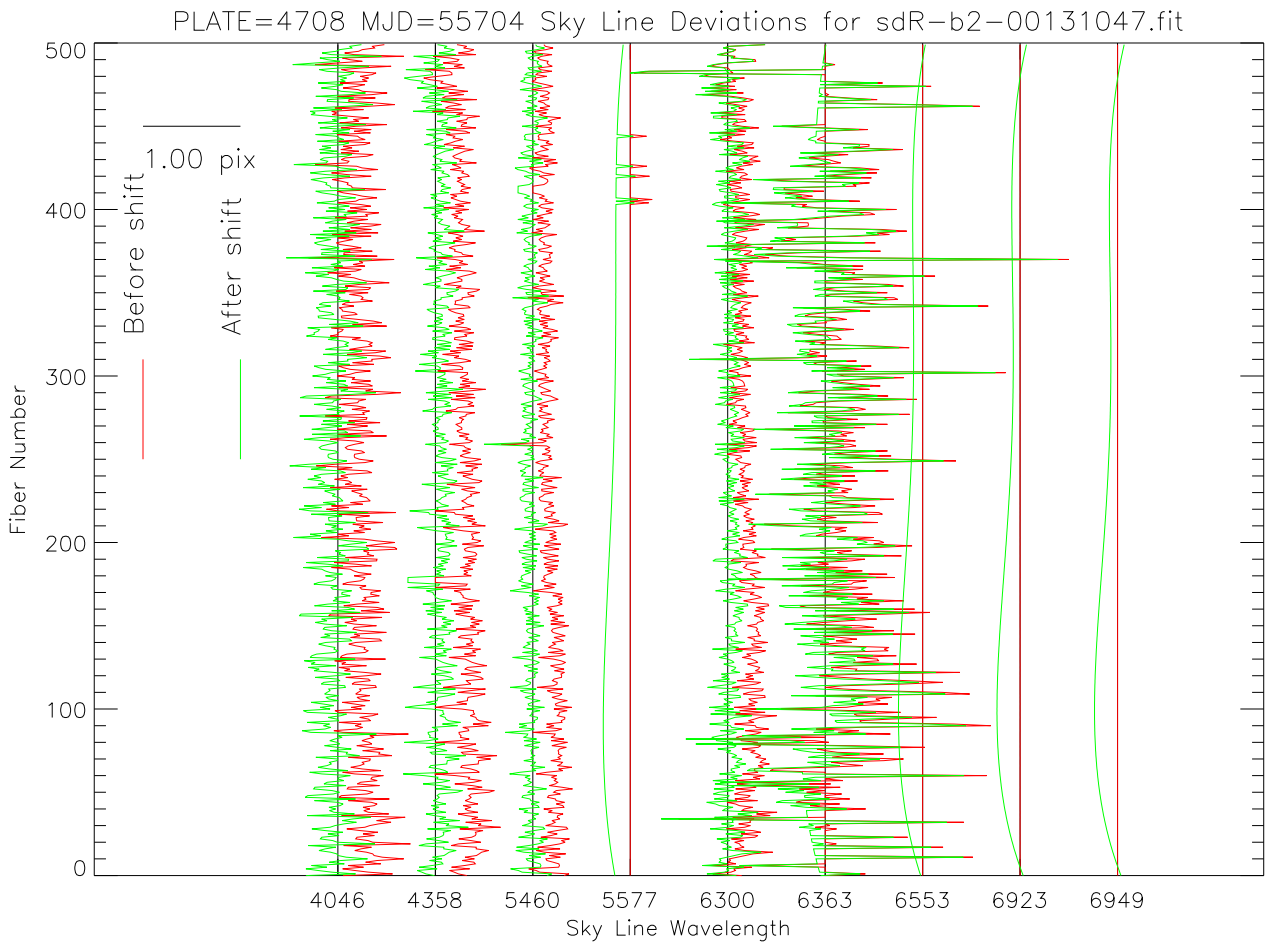


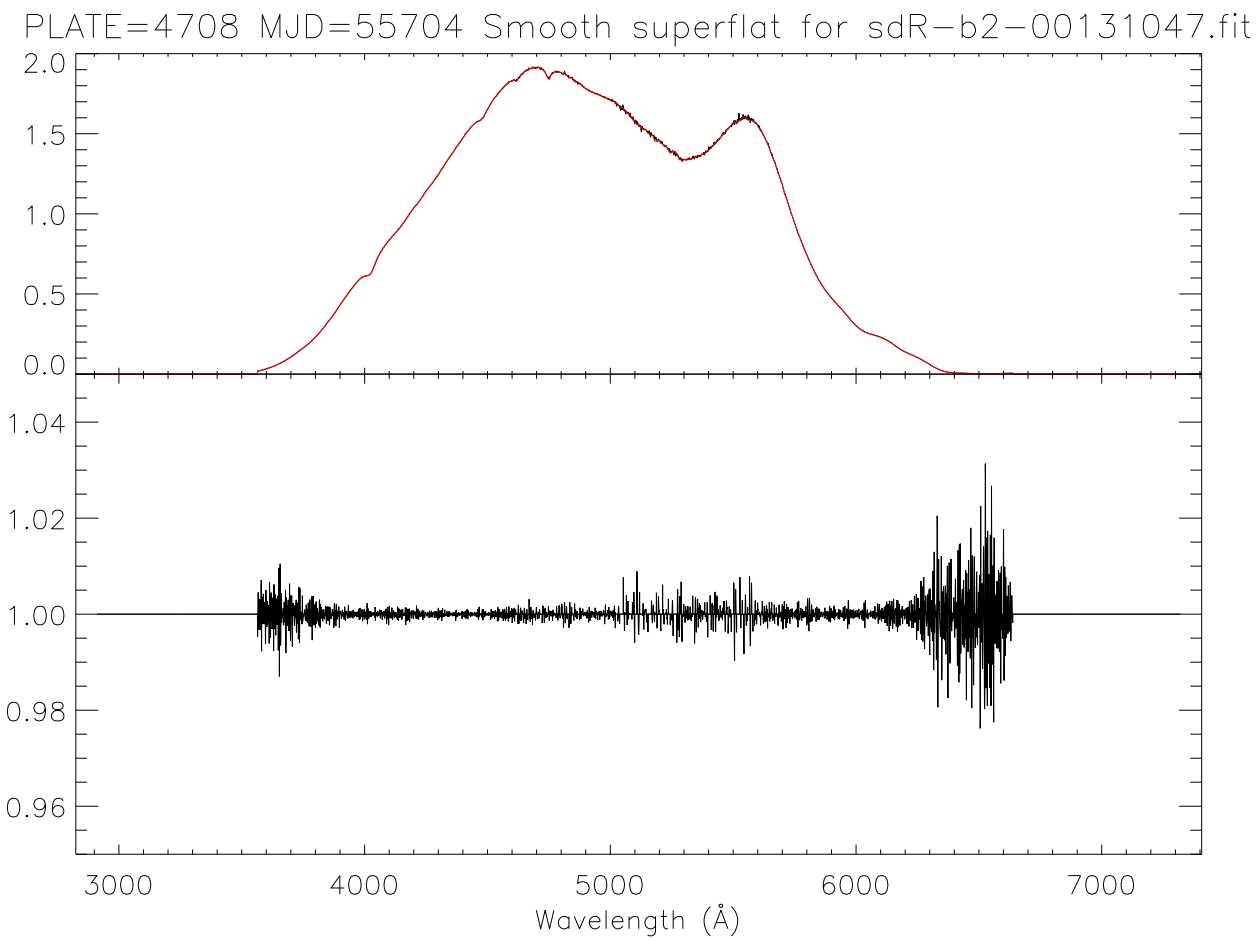

PLATE=4708 MJD=55704 sdR-b2-00131046.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 19.49 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

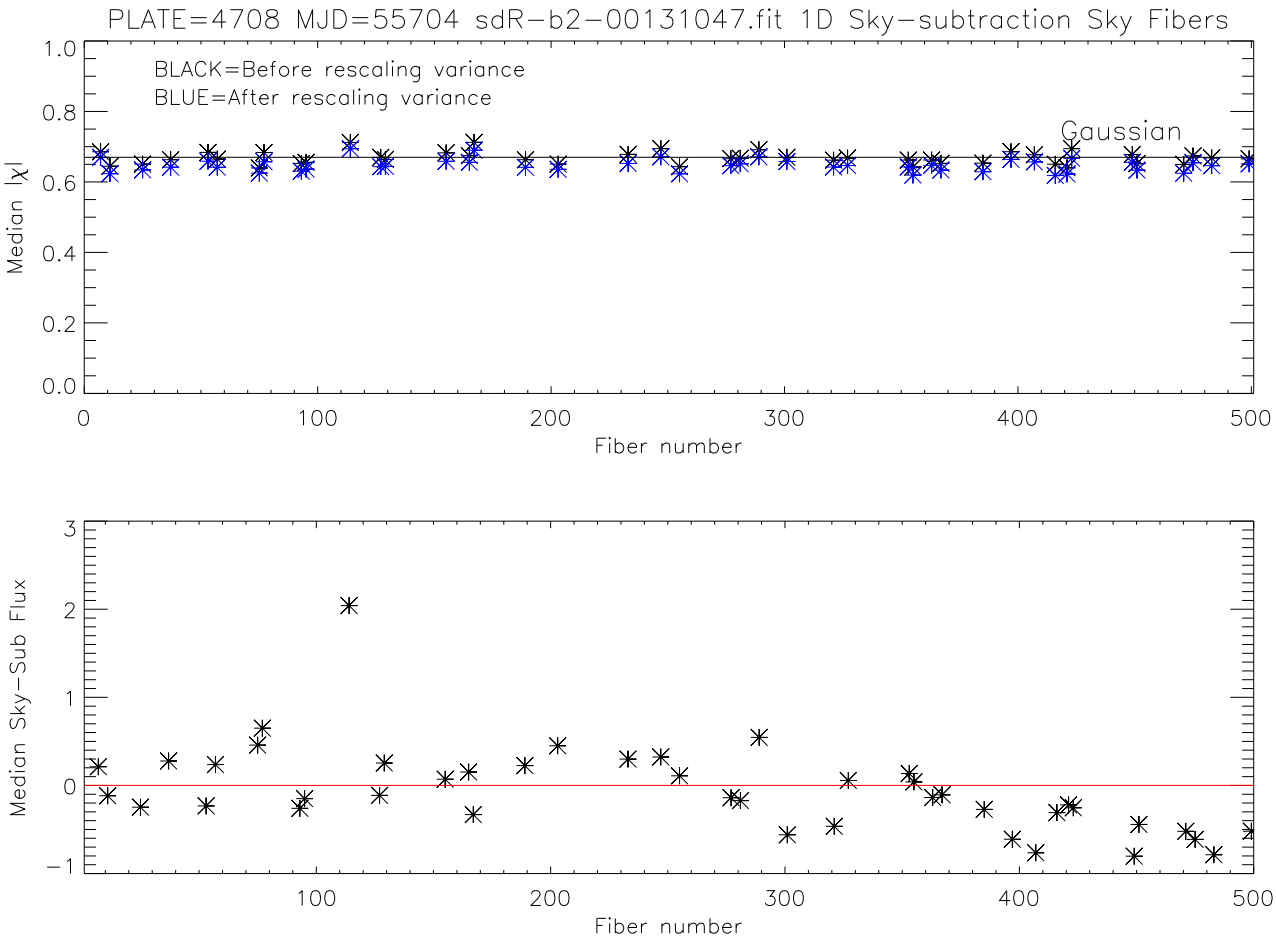

PLATE=4708 MJD=55704 sdR-b2-00131046.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Dispersion = 40.59 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

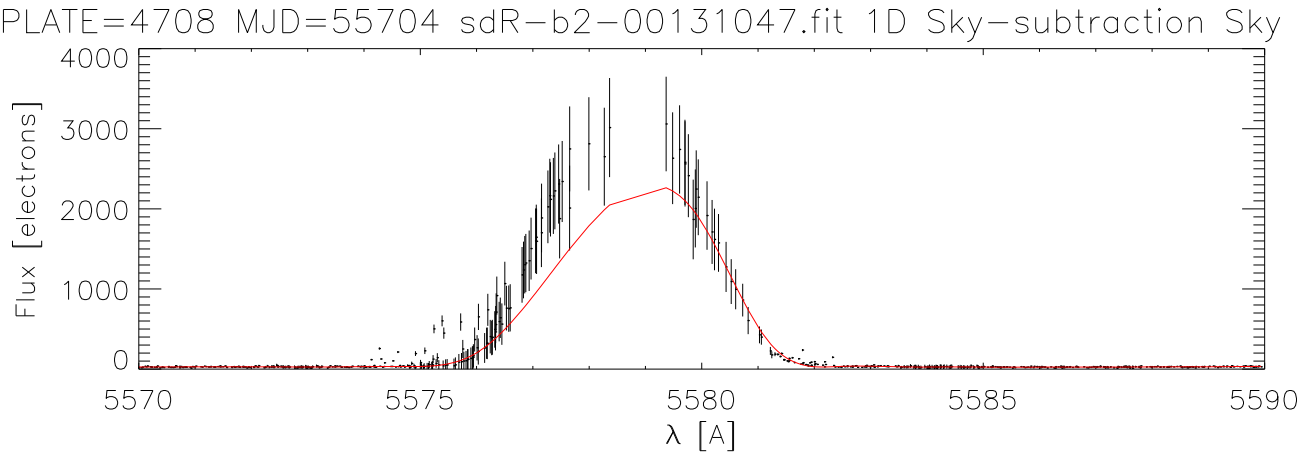

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.433
Max value = 1.433
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Fri May 27 11:56:13 2016

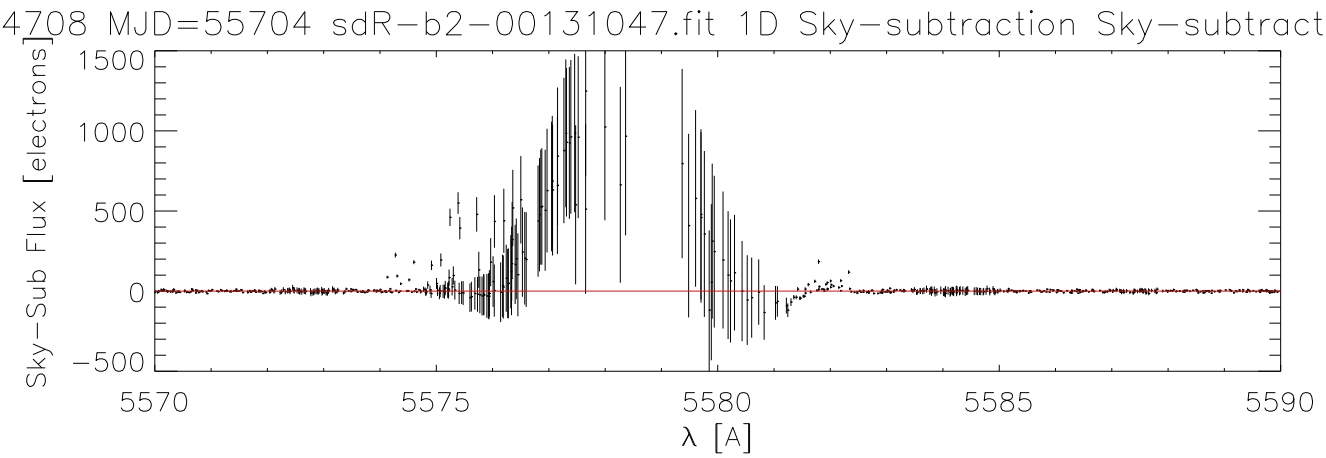

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b2-00131047.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b2-00131047.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

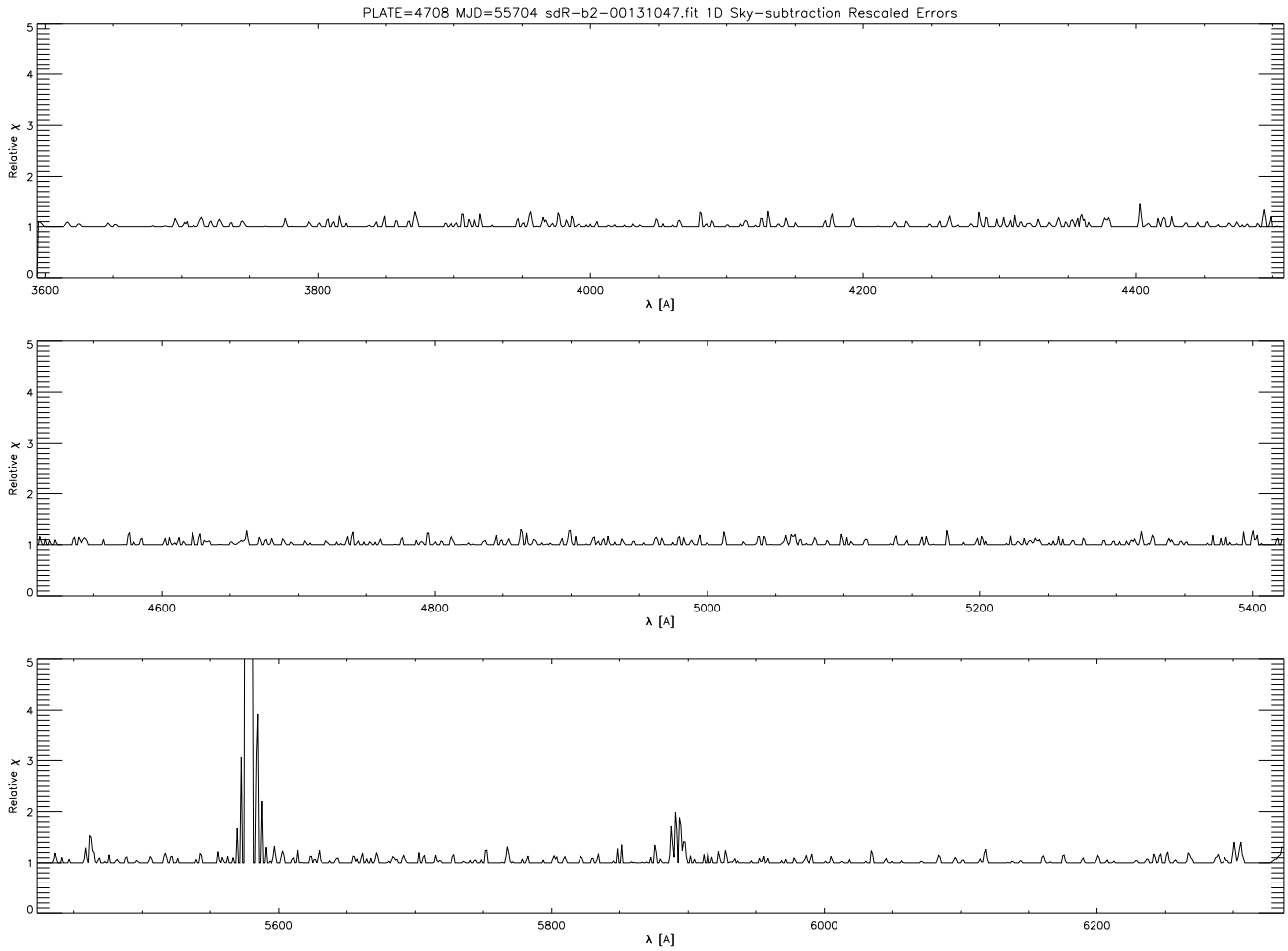

PLATE=4708 MJD=55704 Smooth superflat for sdR-b2-00131047.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

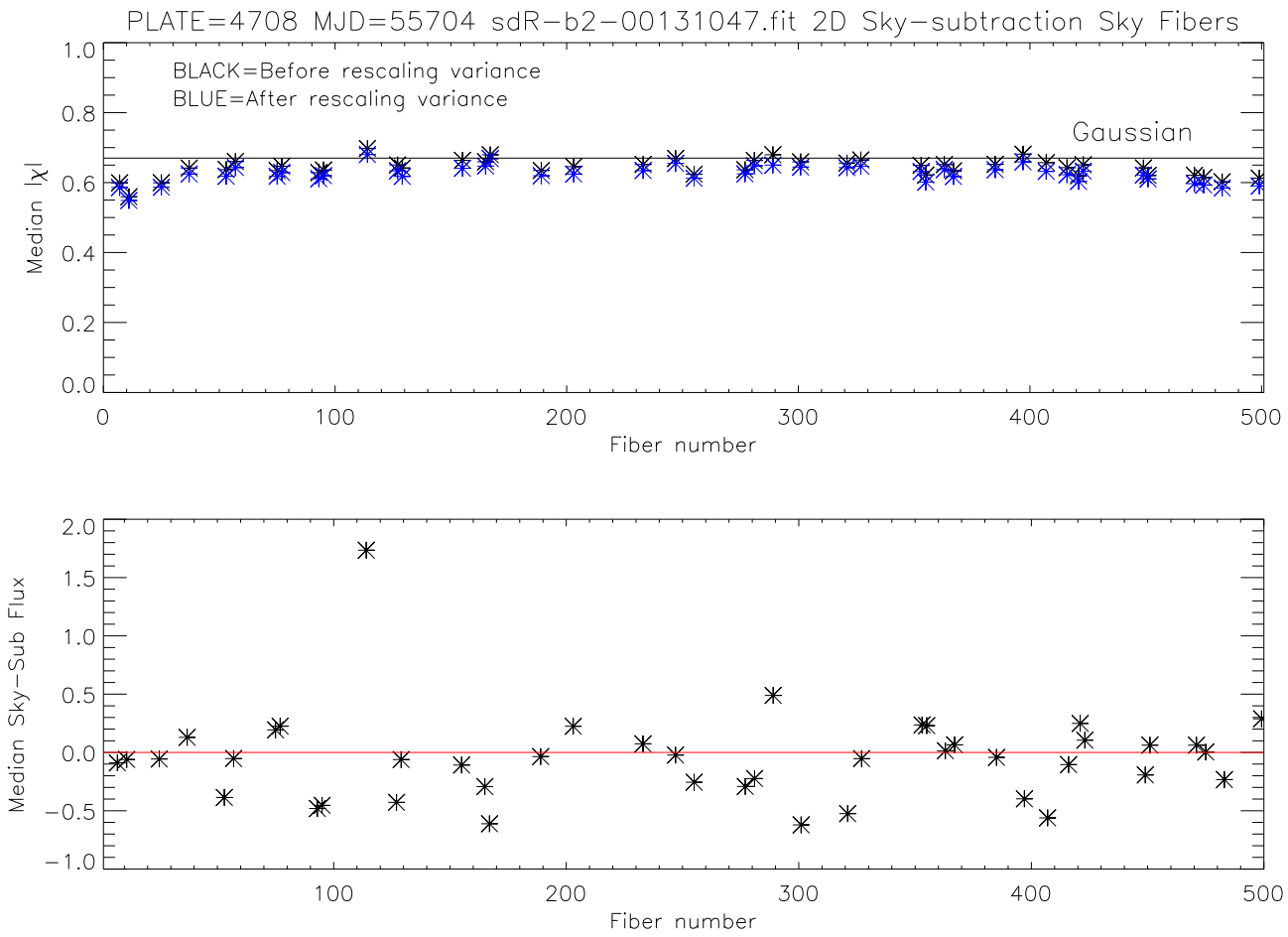

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

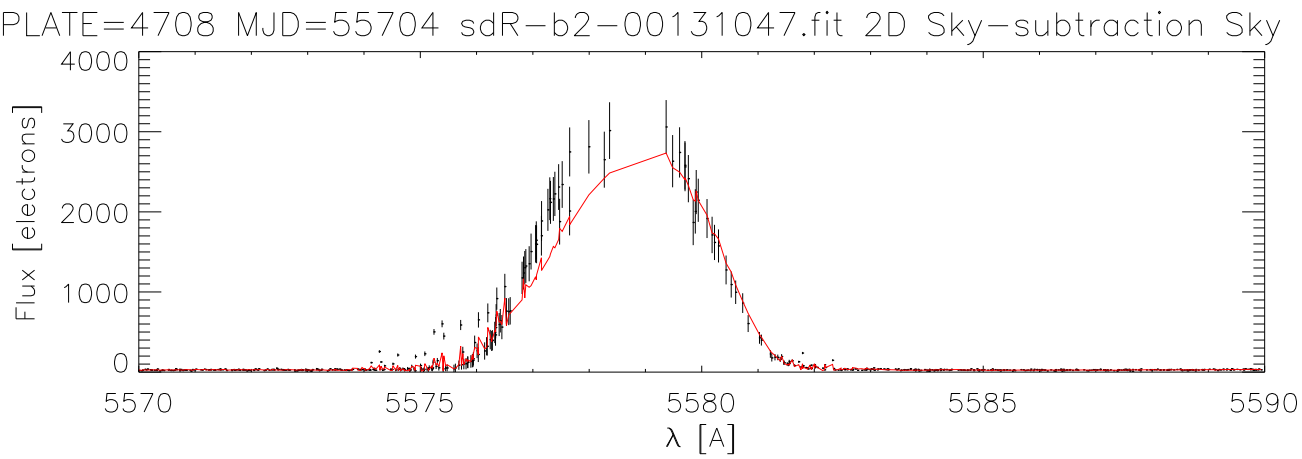

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

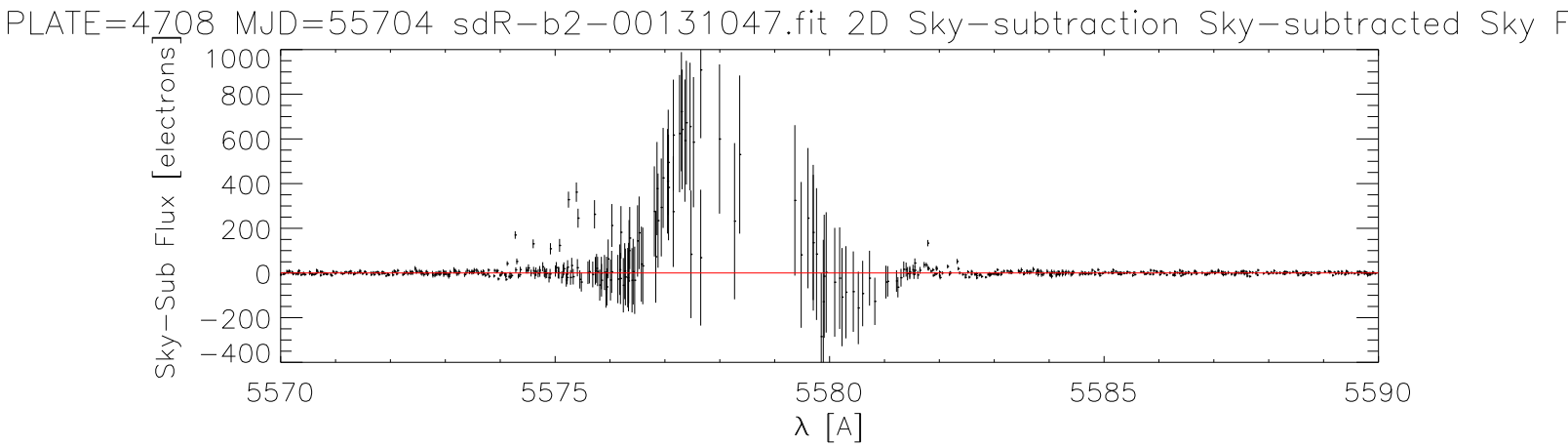

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

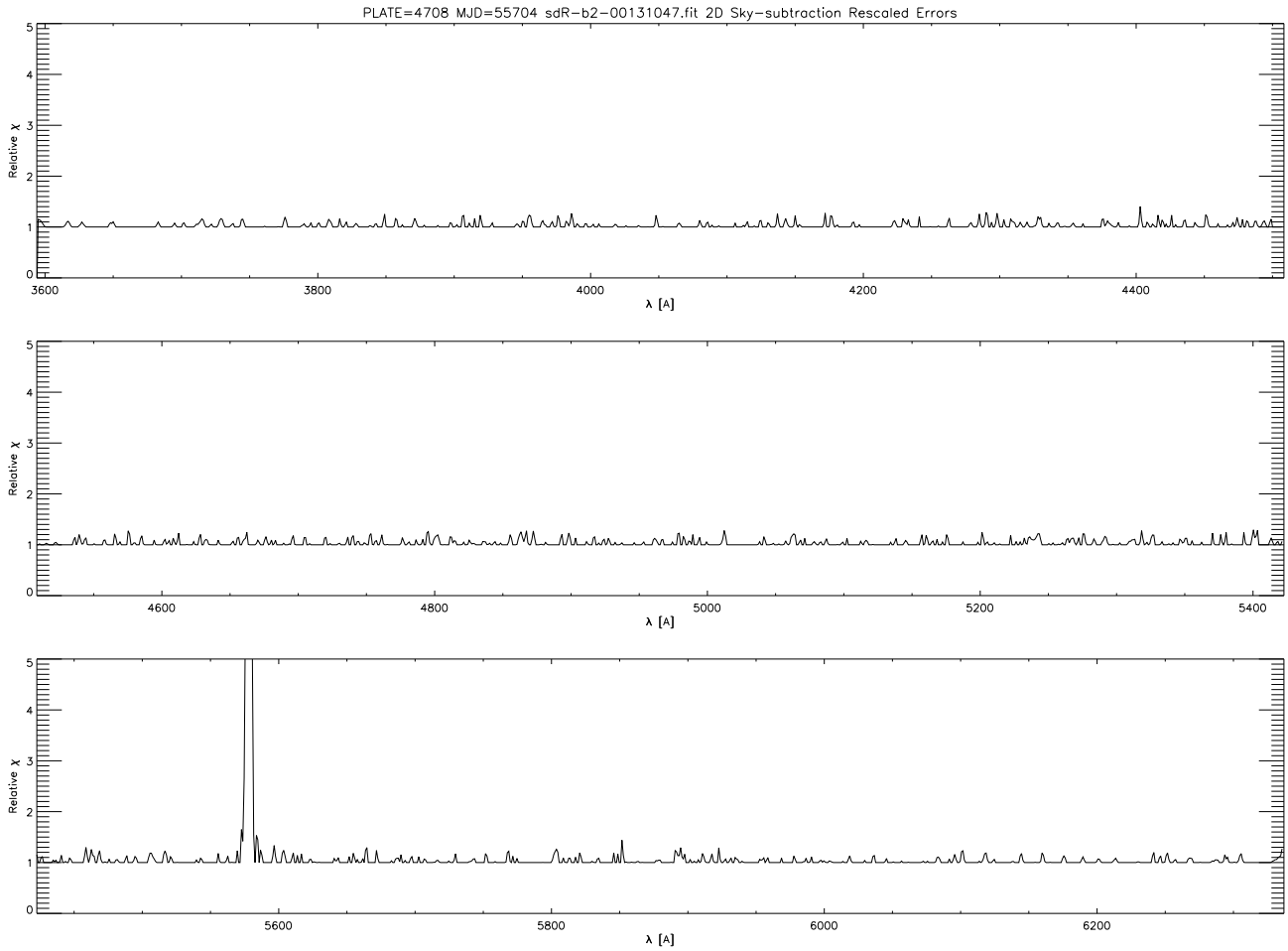


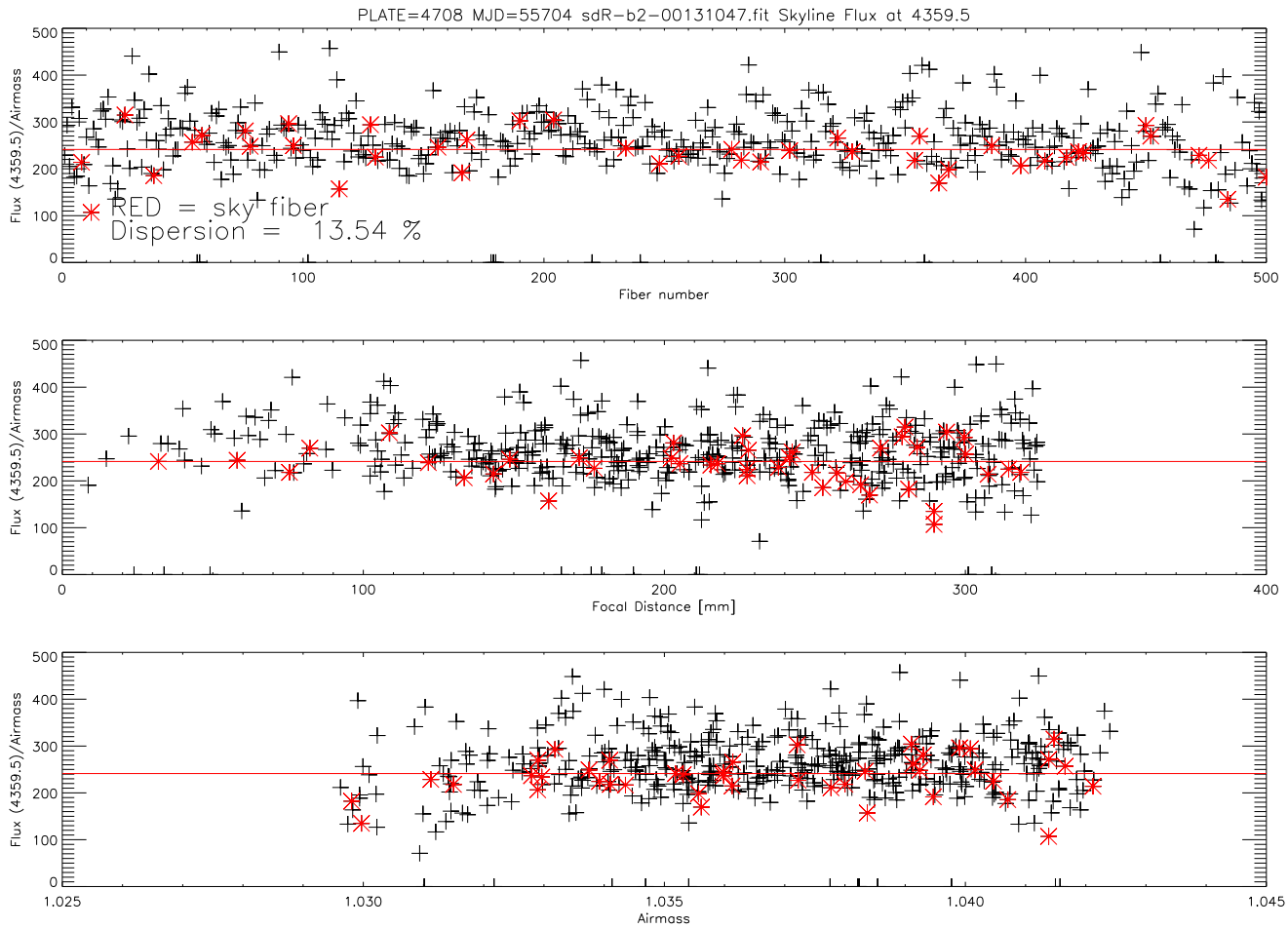

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

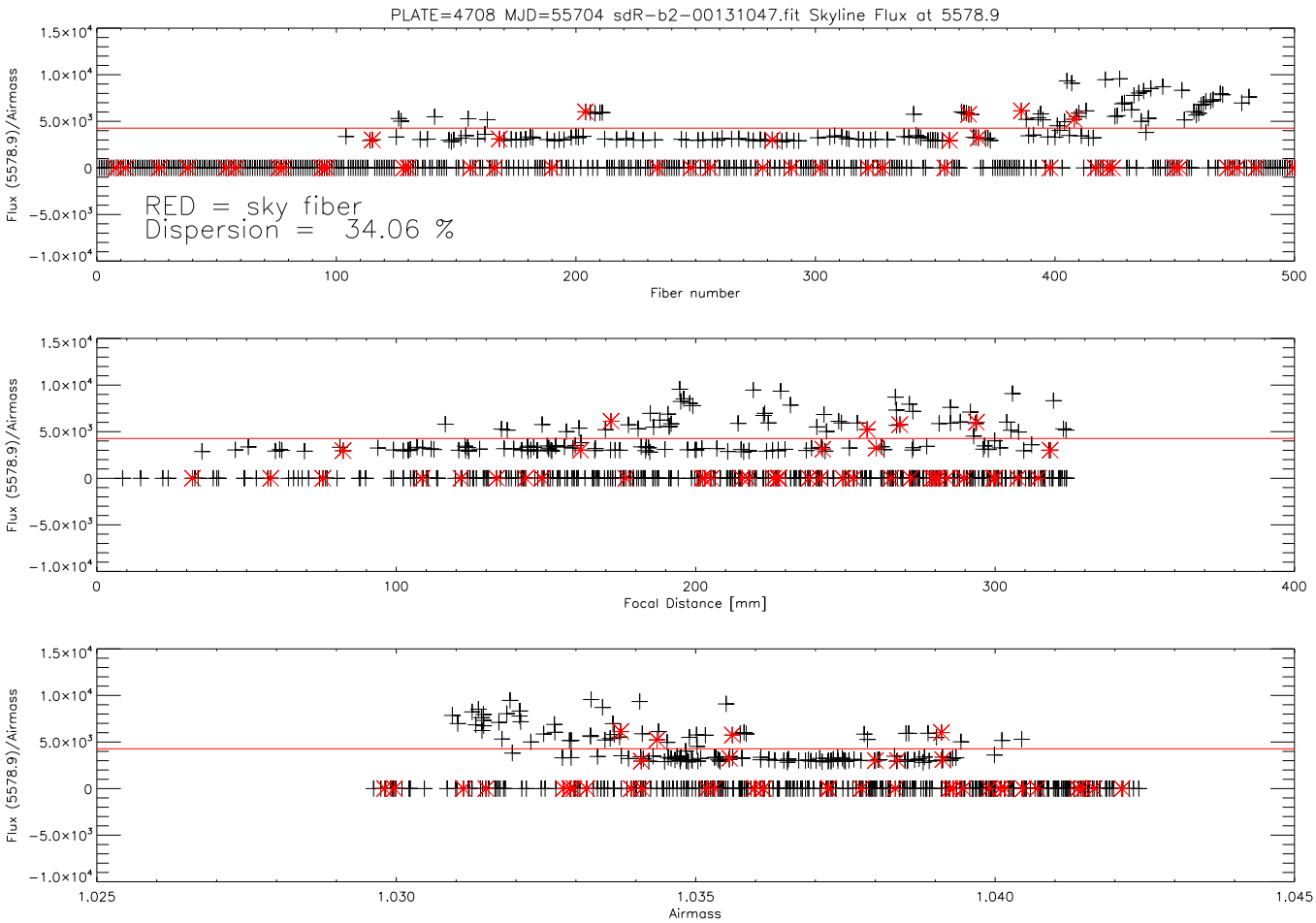

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

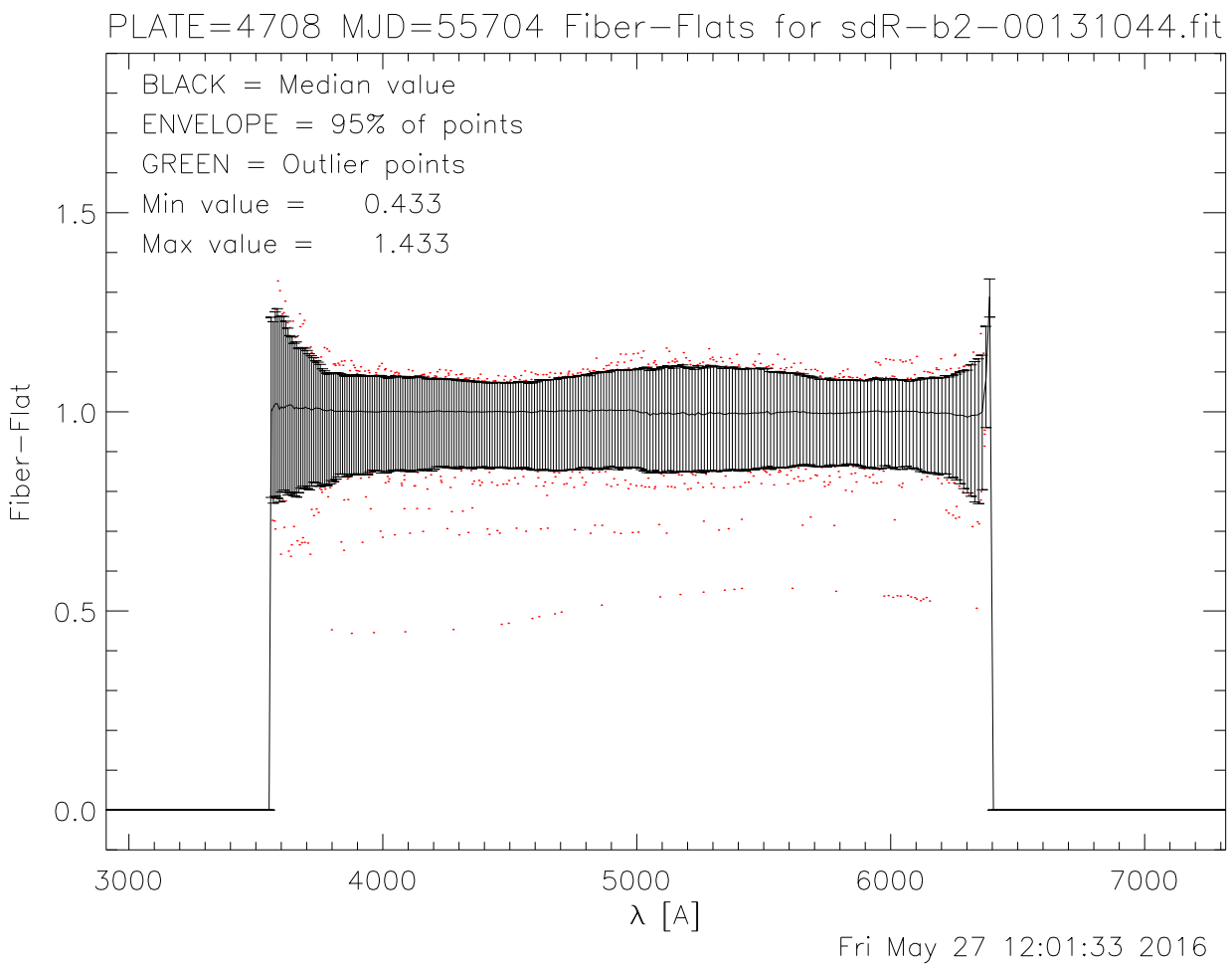

PLATE=4708 MJD=55704 sdR-b2-00131047.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

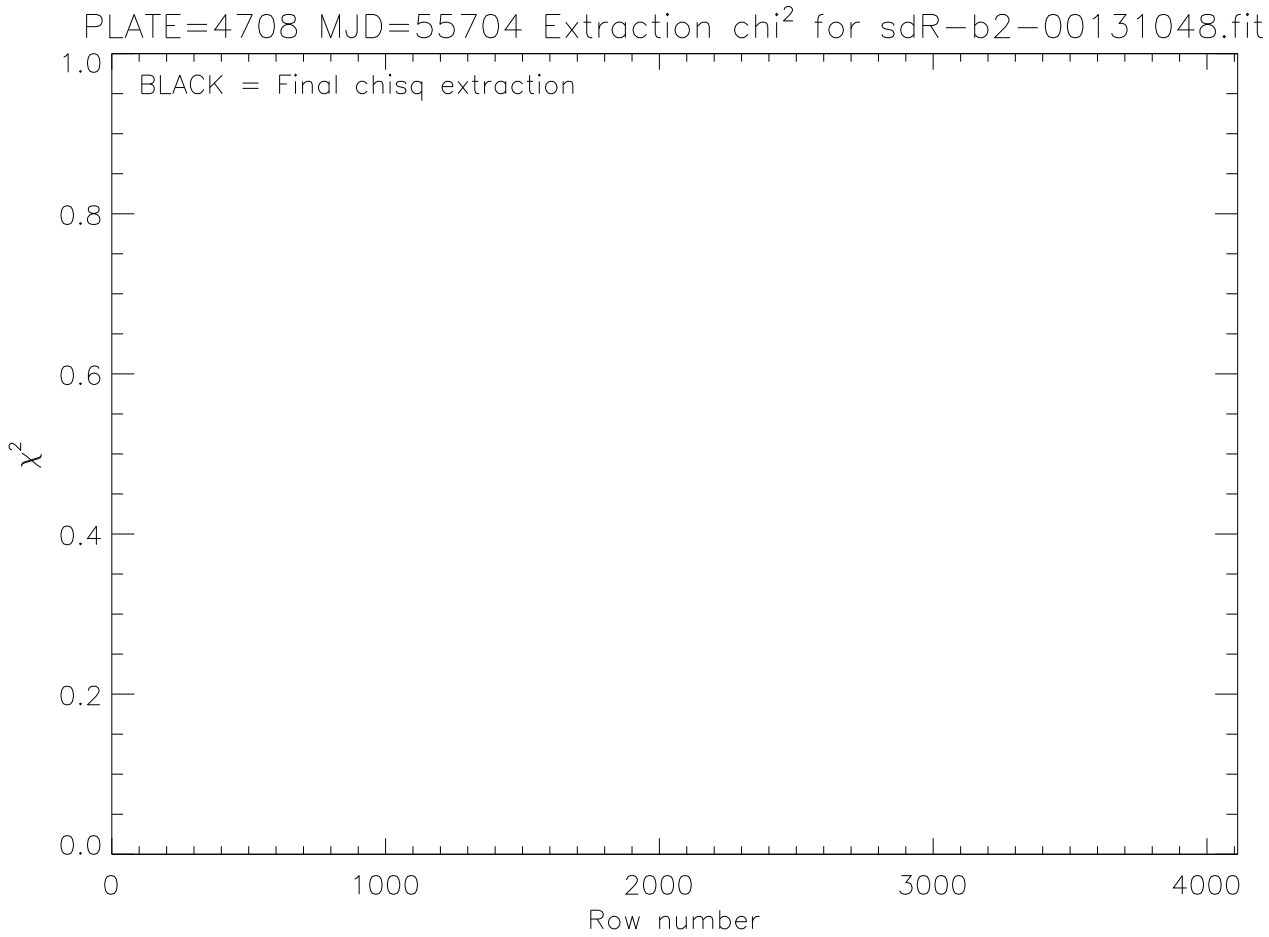
Number of sky fibers = 43

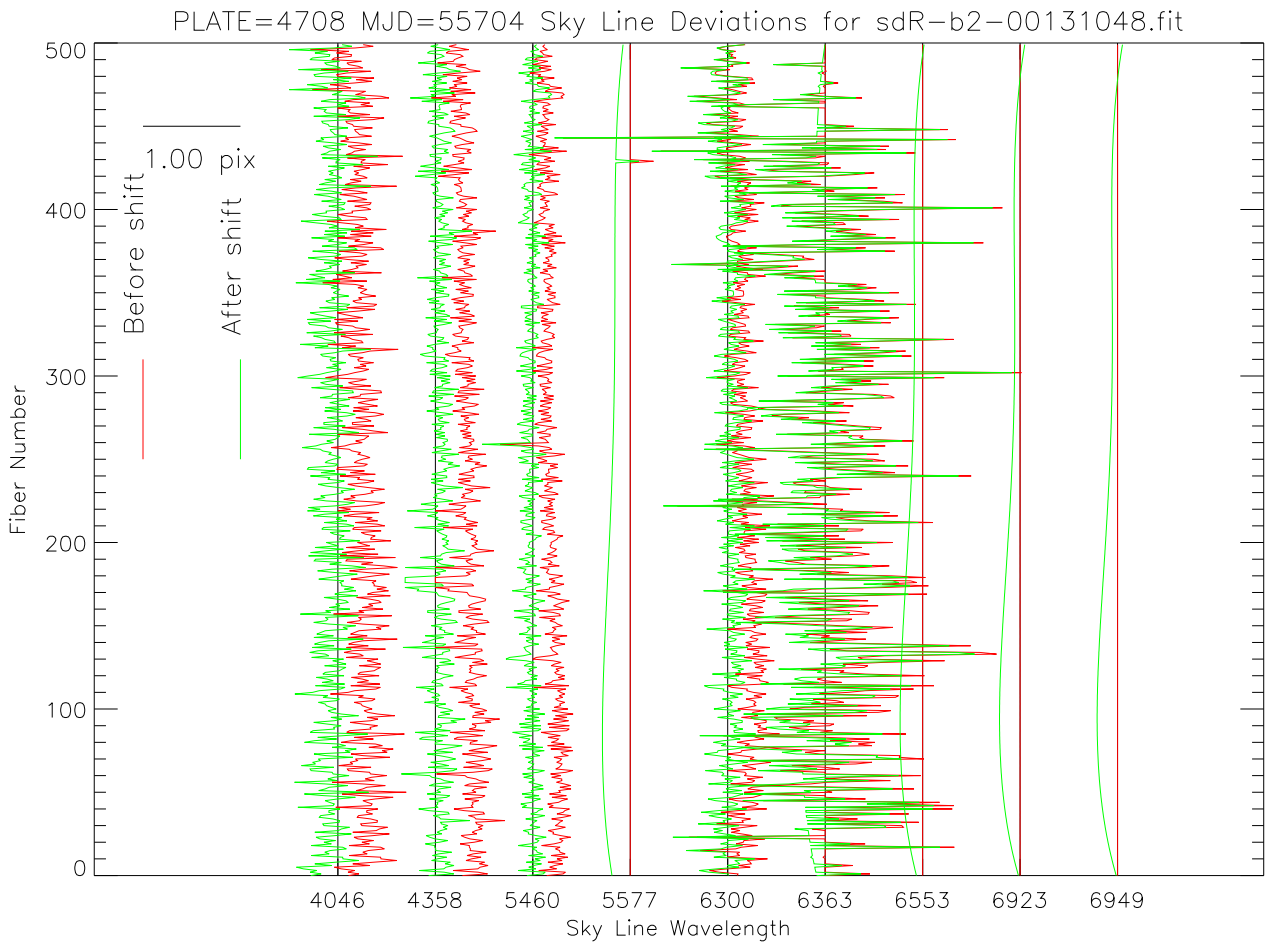


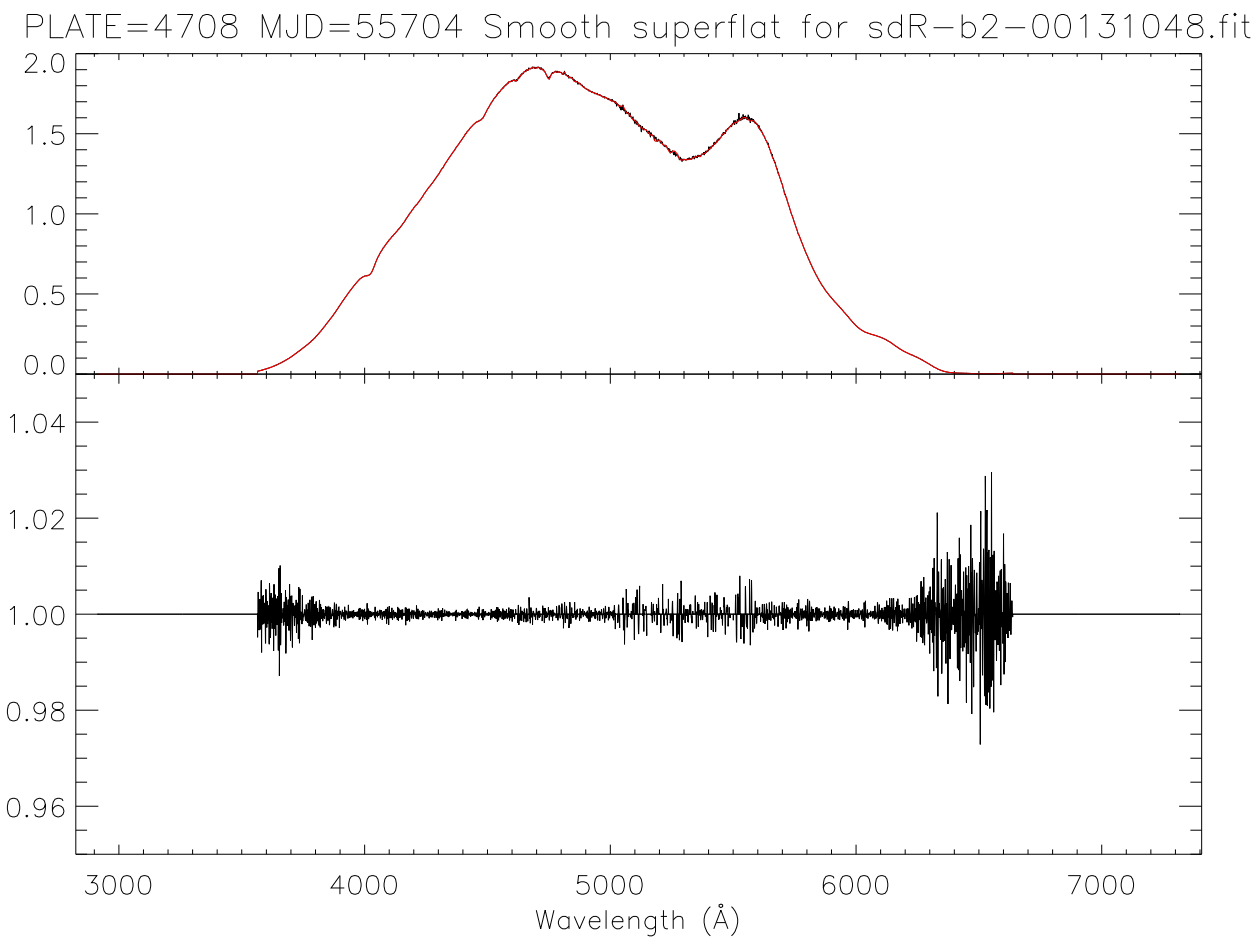

PLATE=4708 MJD=55704 sdR-b2-00131047.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.54 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

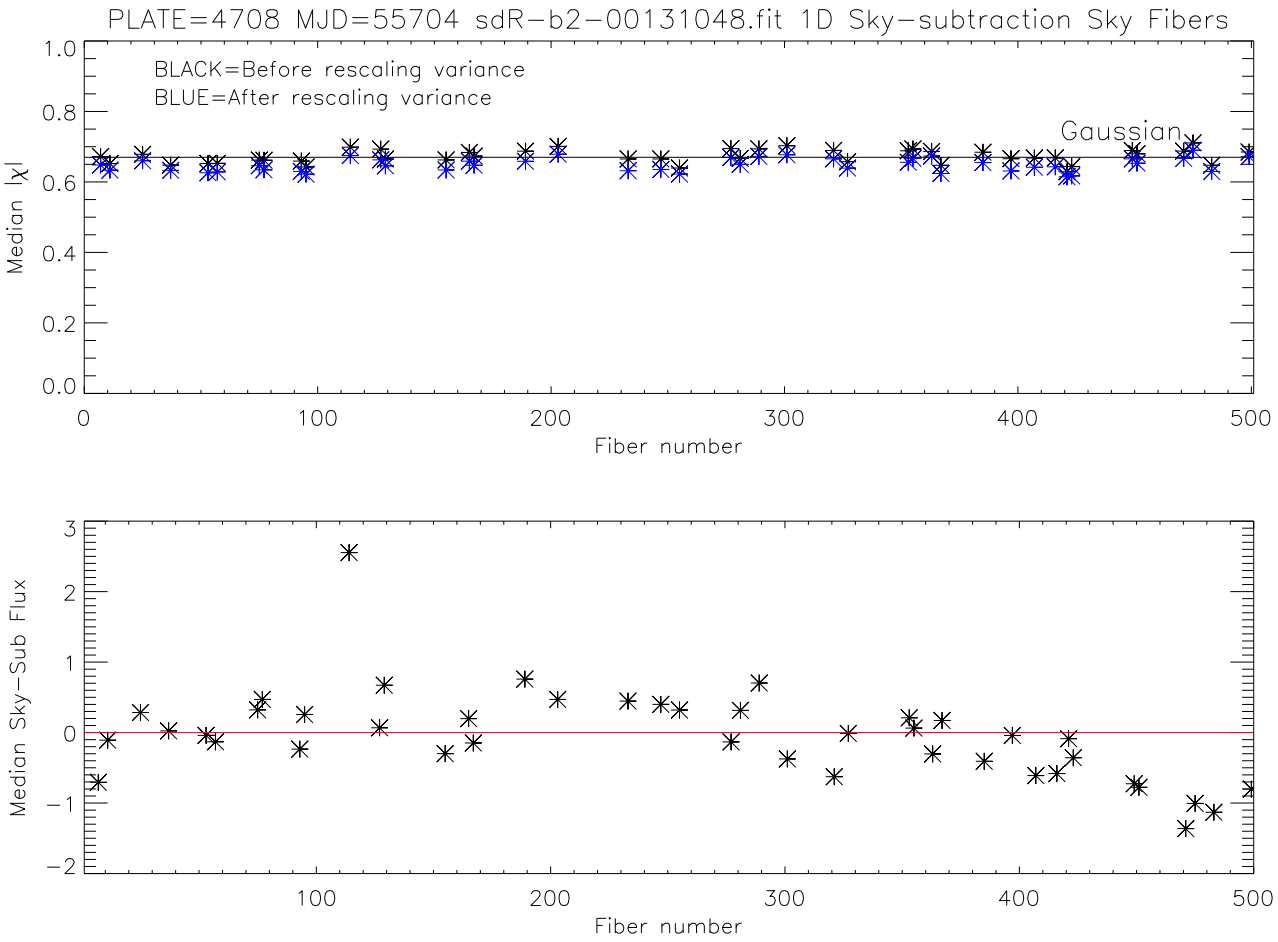

PLATE=4708 MJD=55704 sdR-b2-00131047.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
−1.0×10⁴
RED = sky fiber
Dispersion = 34.06 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.025
1.030
1.035
1.040
1.045
Airmass

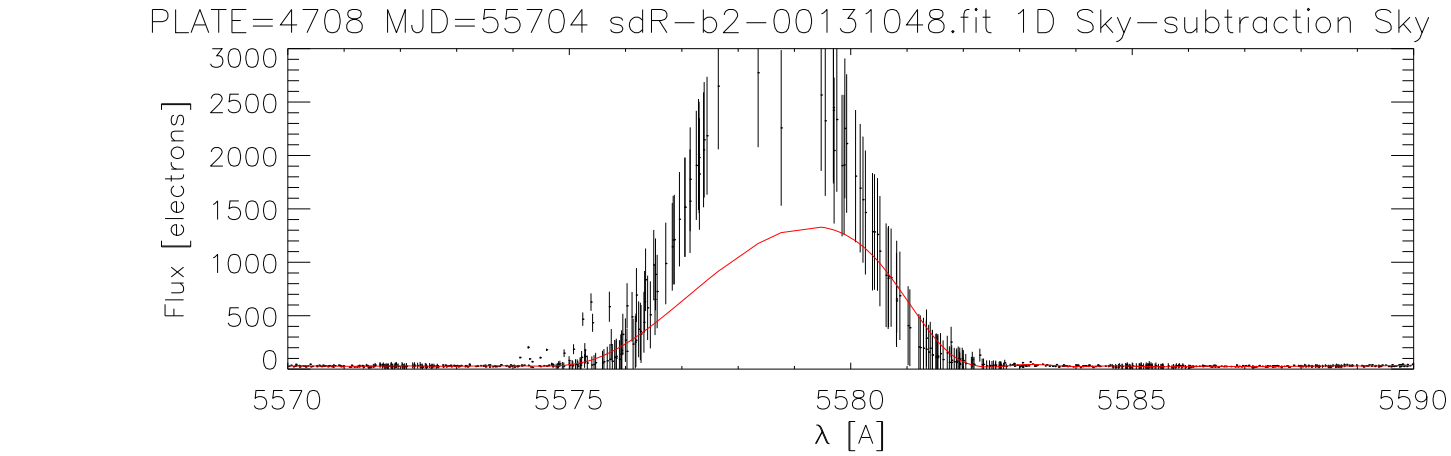

PLATE=4708 MJD=55704 Fiber−Flats for sdR−b2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.433
Max value = 1.433
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Fri May 27 12:01:33 2016

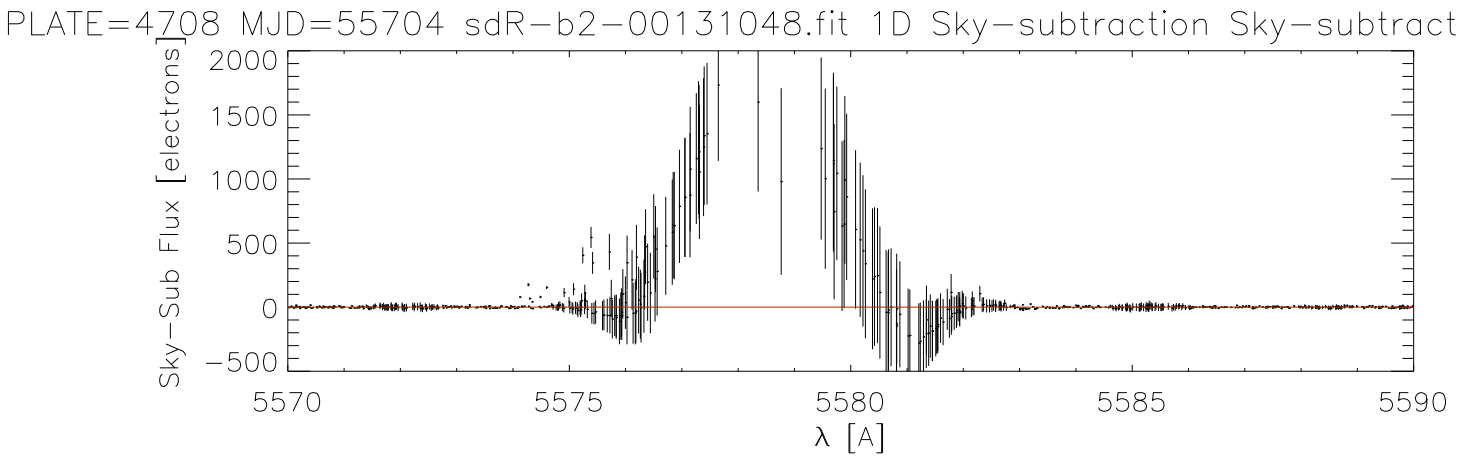

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-b2-00131048.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-b2-00131048.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

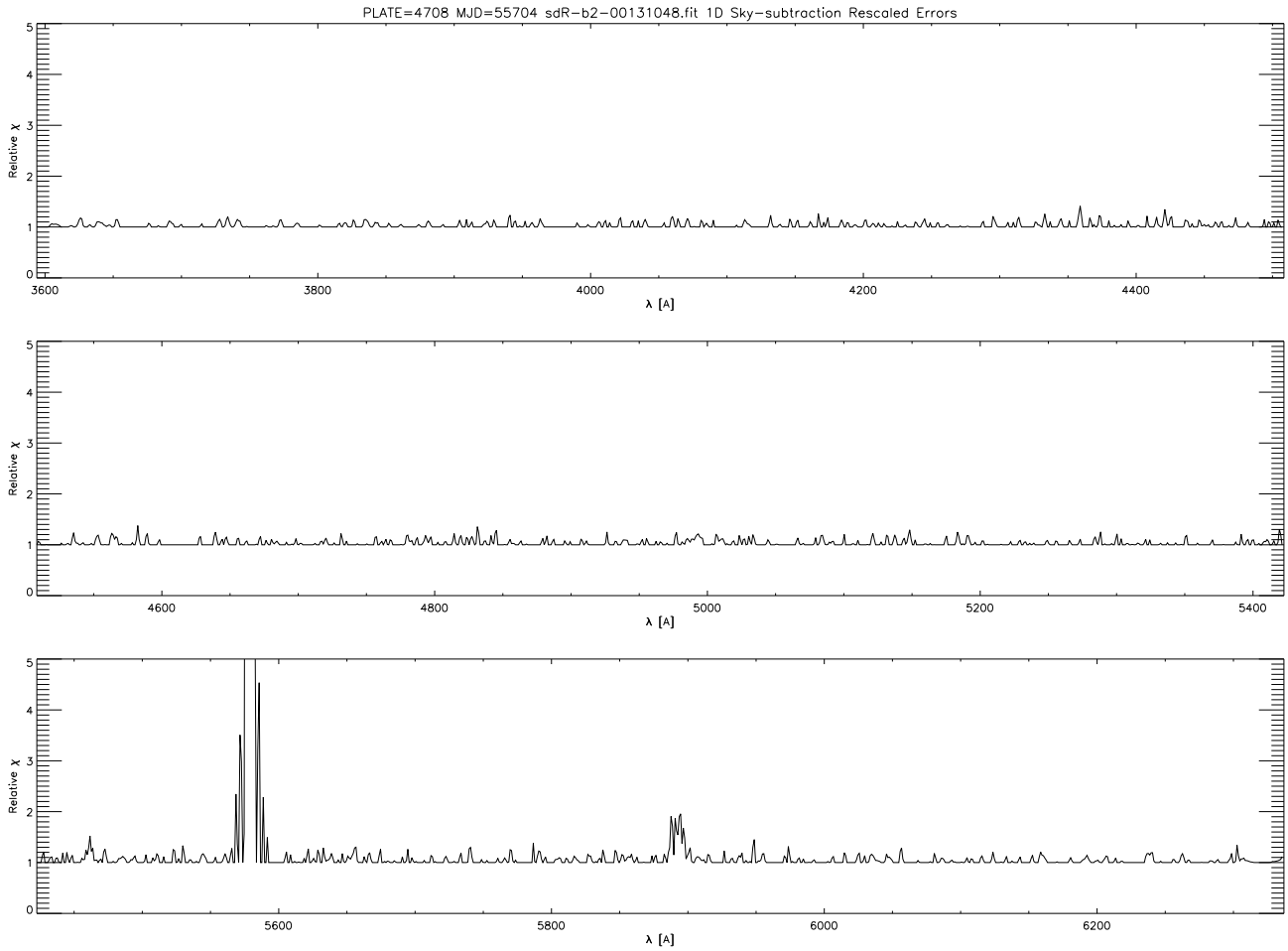

PLATE=4708 MJD=55704 Smooth superflat for sdR-b2-00131048.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

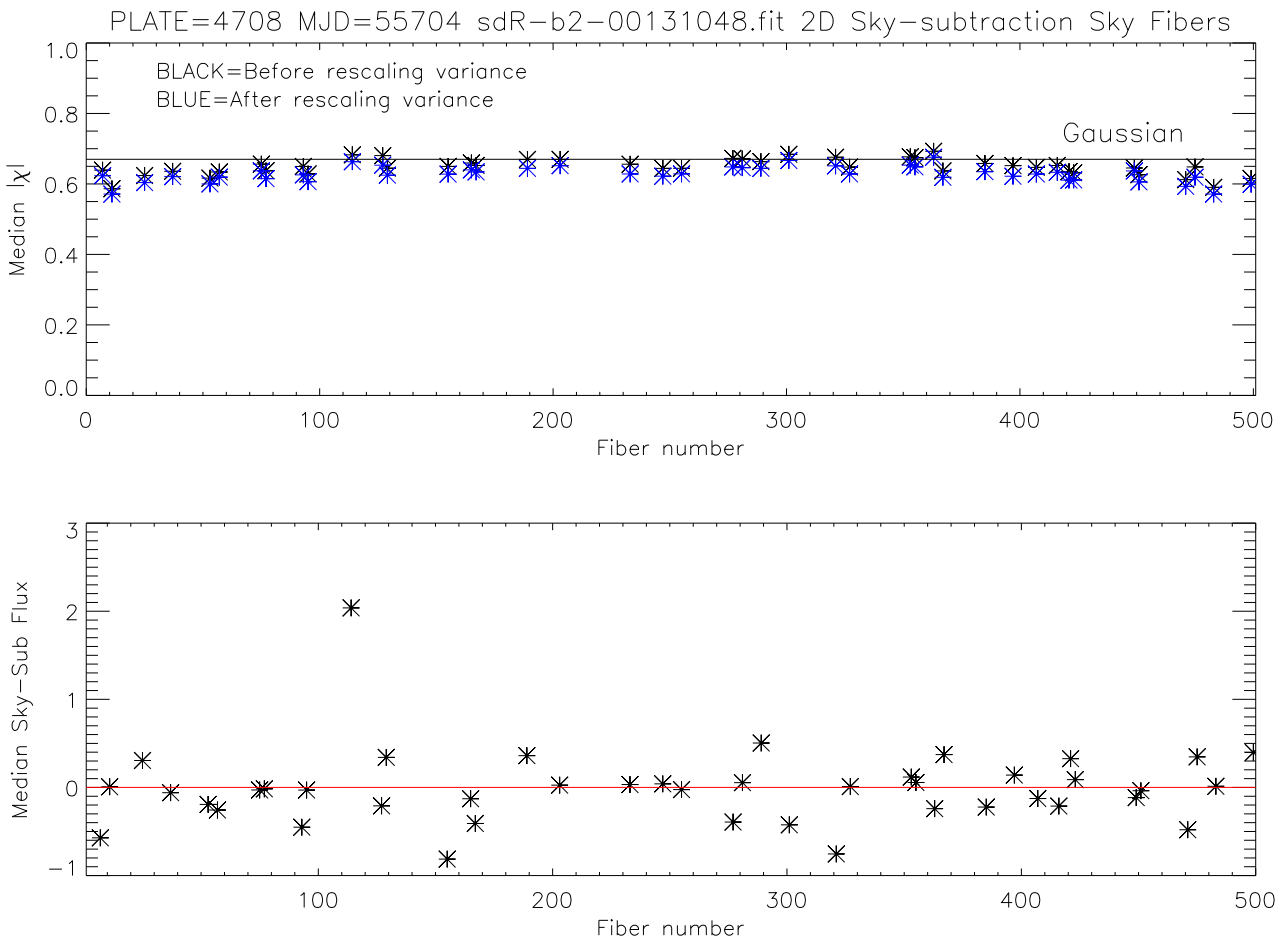

PLATE=4708 MJD=55704 sdR-b2-00131048.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

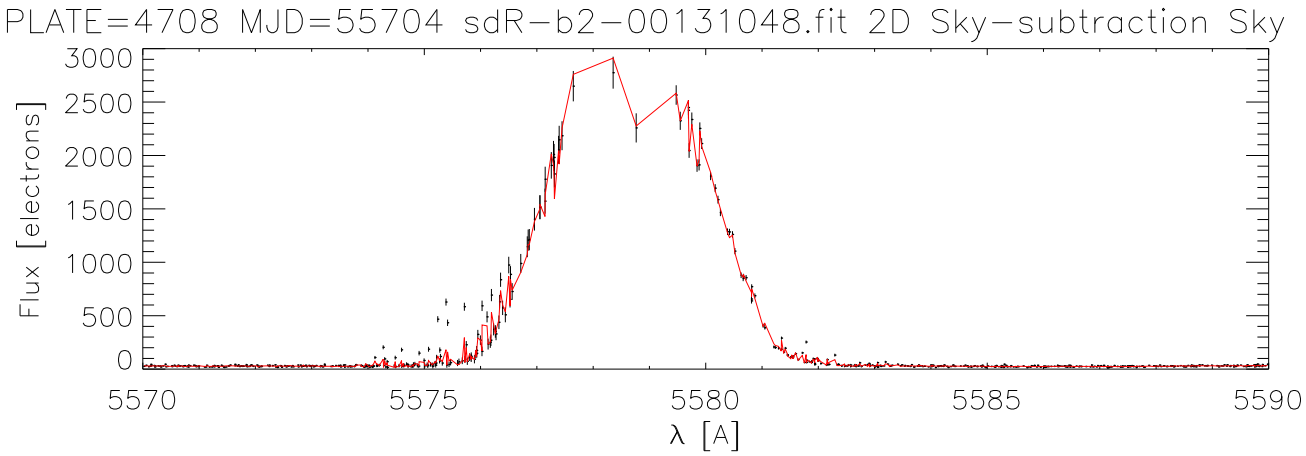

PLATE=4708 MJD=55704 sdR-b2-00131048.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

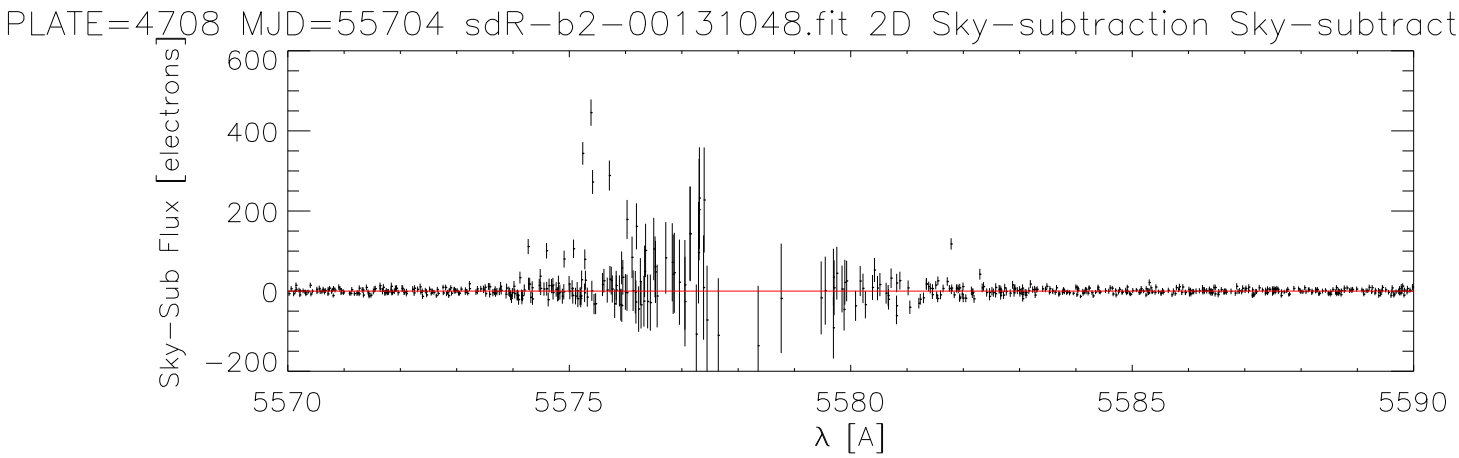

PLATE=4708 MJD=55704 sdR-b2-00131048.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

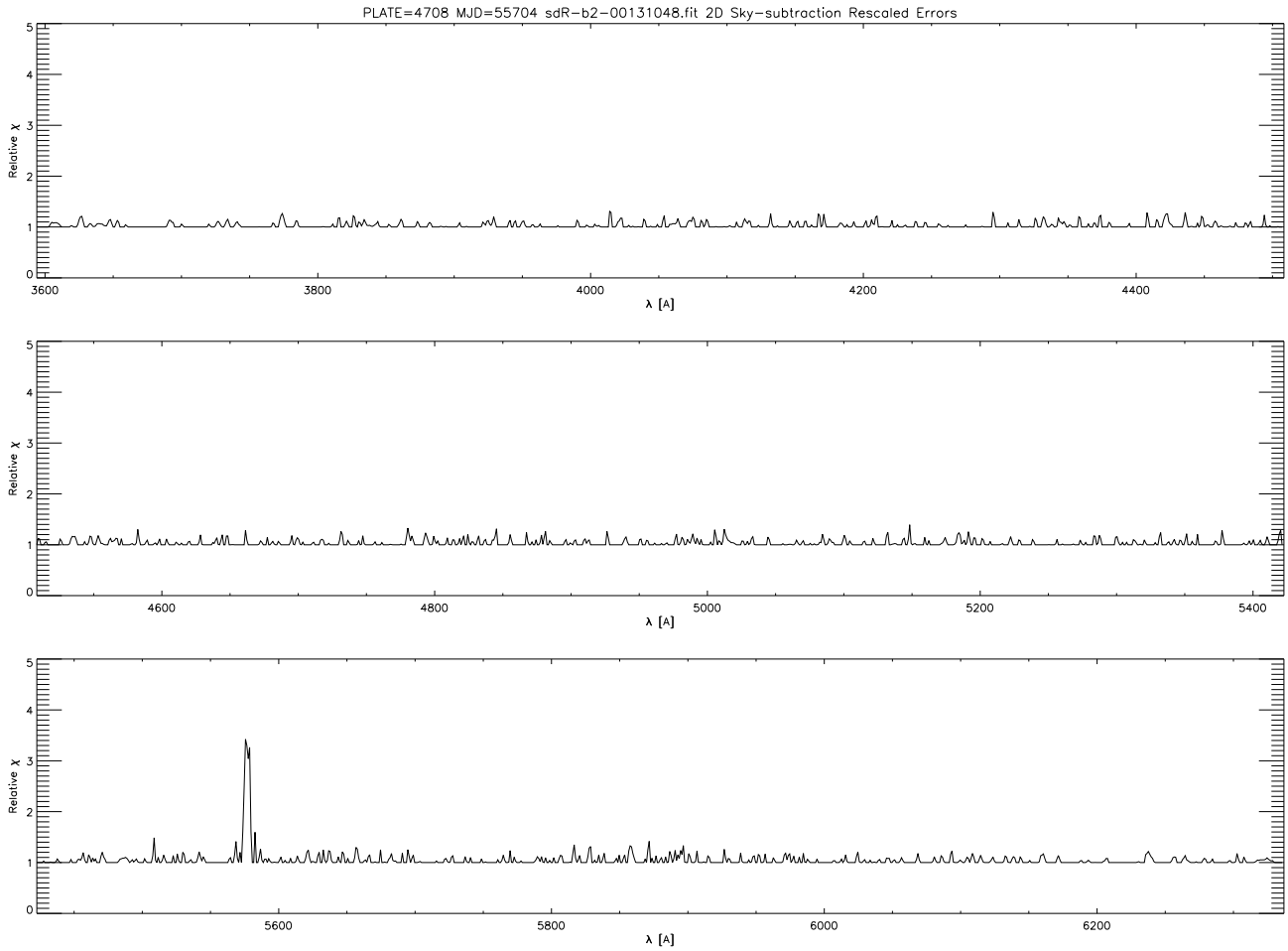


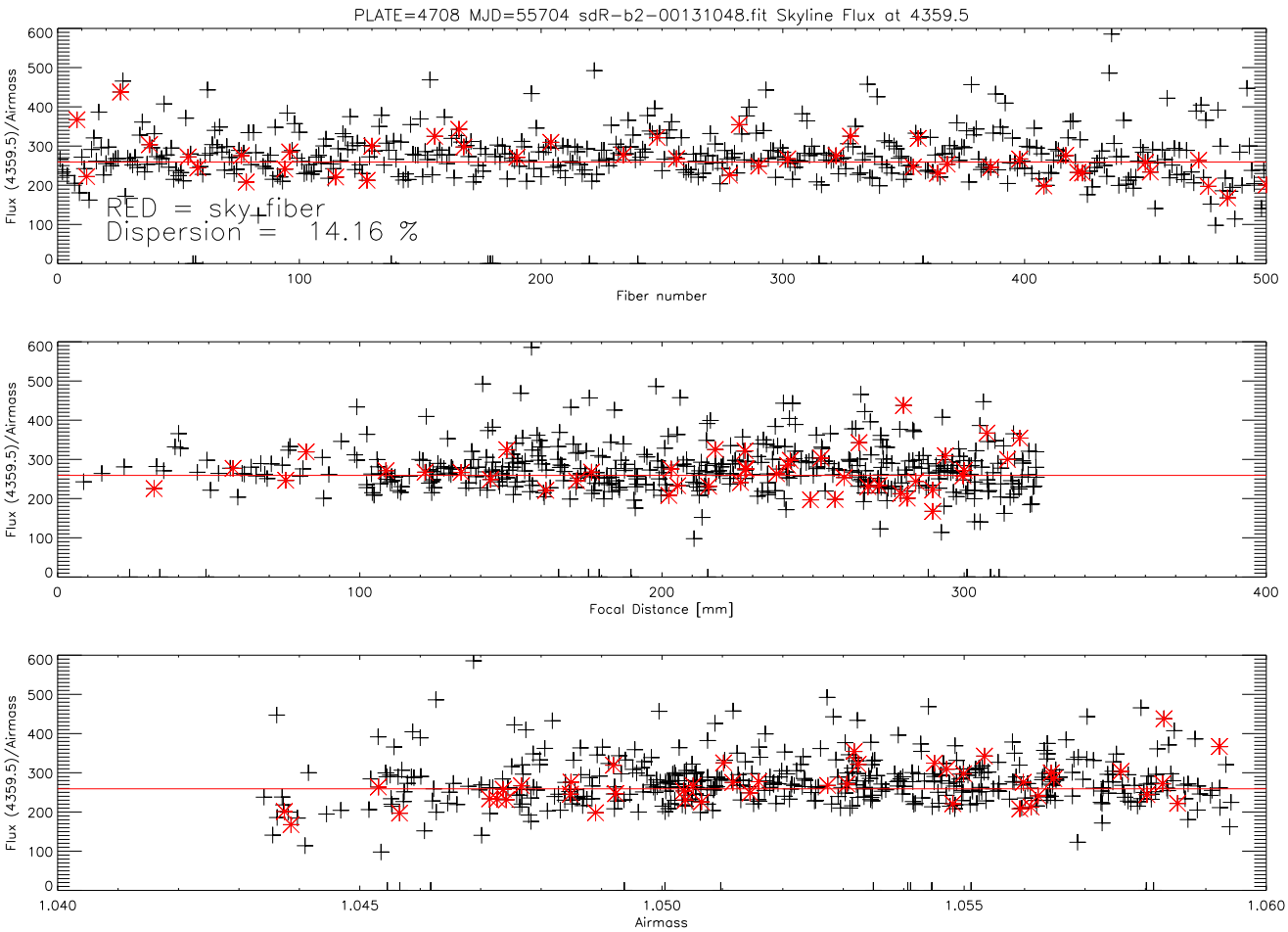

PLATE=4708 MJD=55704 sdR-b2-00131048.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

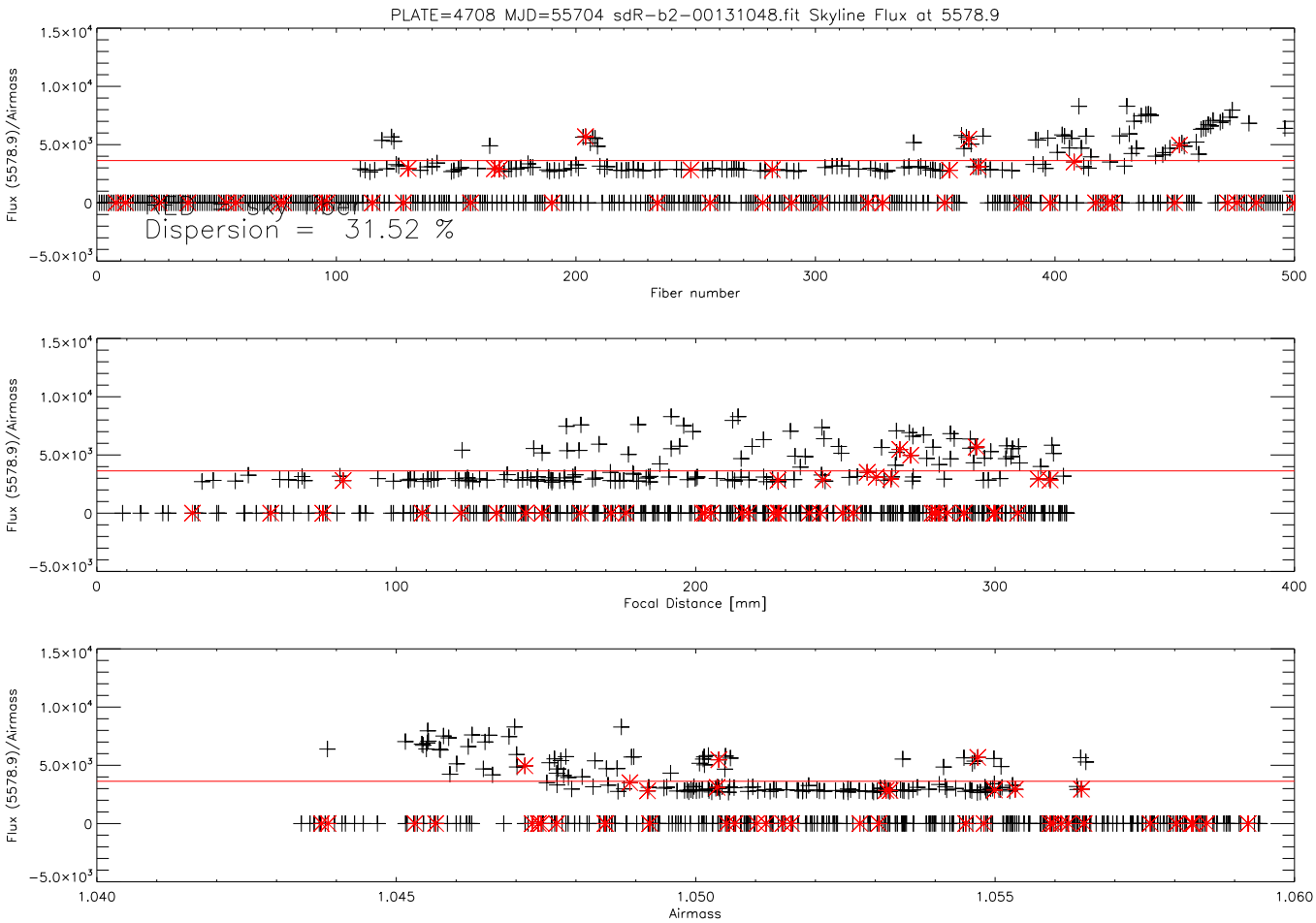

PLATE=4708 MJD=55704 sdR-b2-00131048.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4708 MJD=55704 sdR-b2-00131048.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

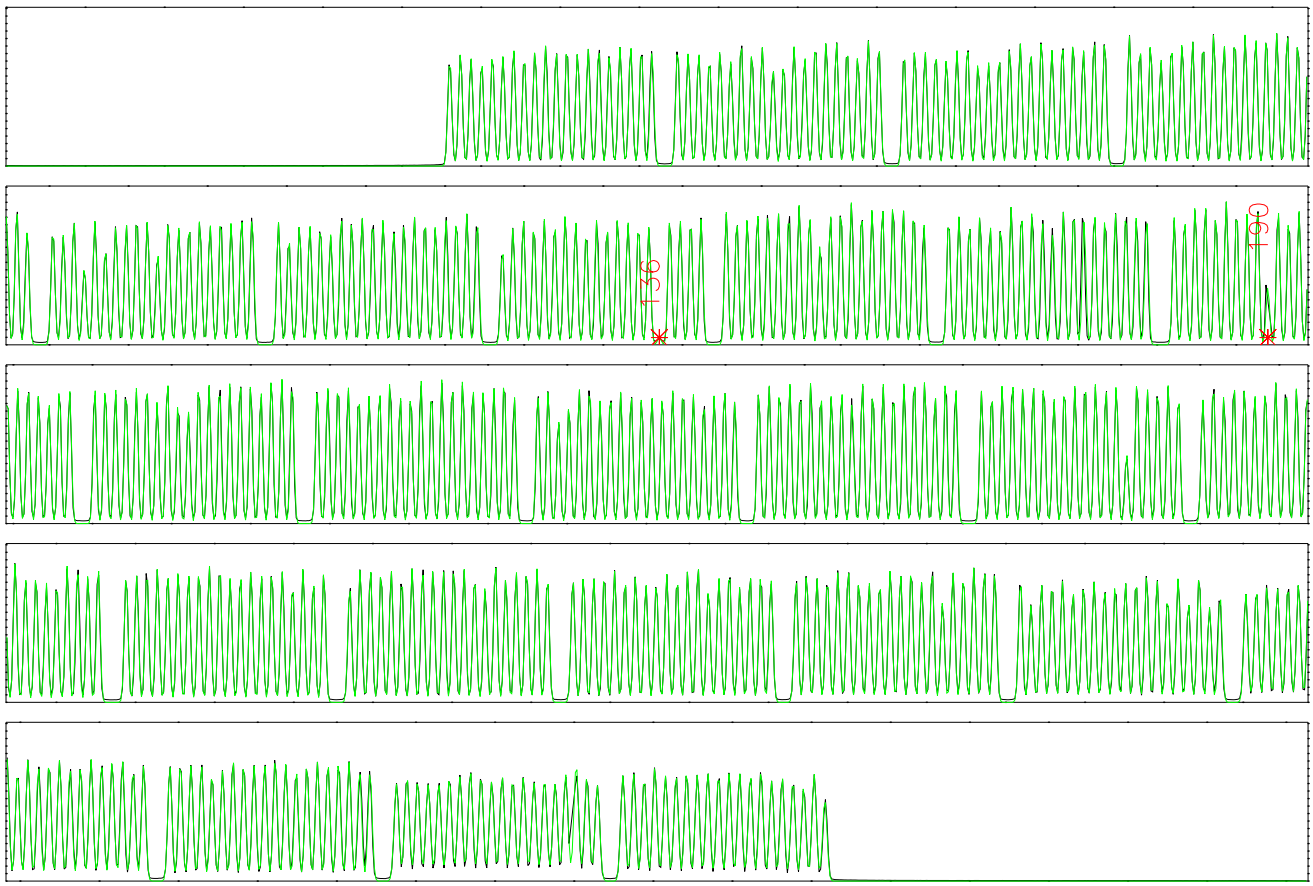
Number of sky fibers = 43

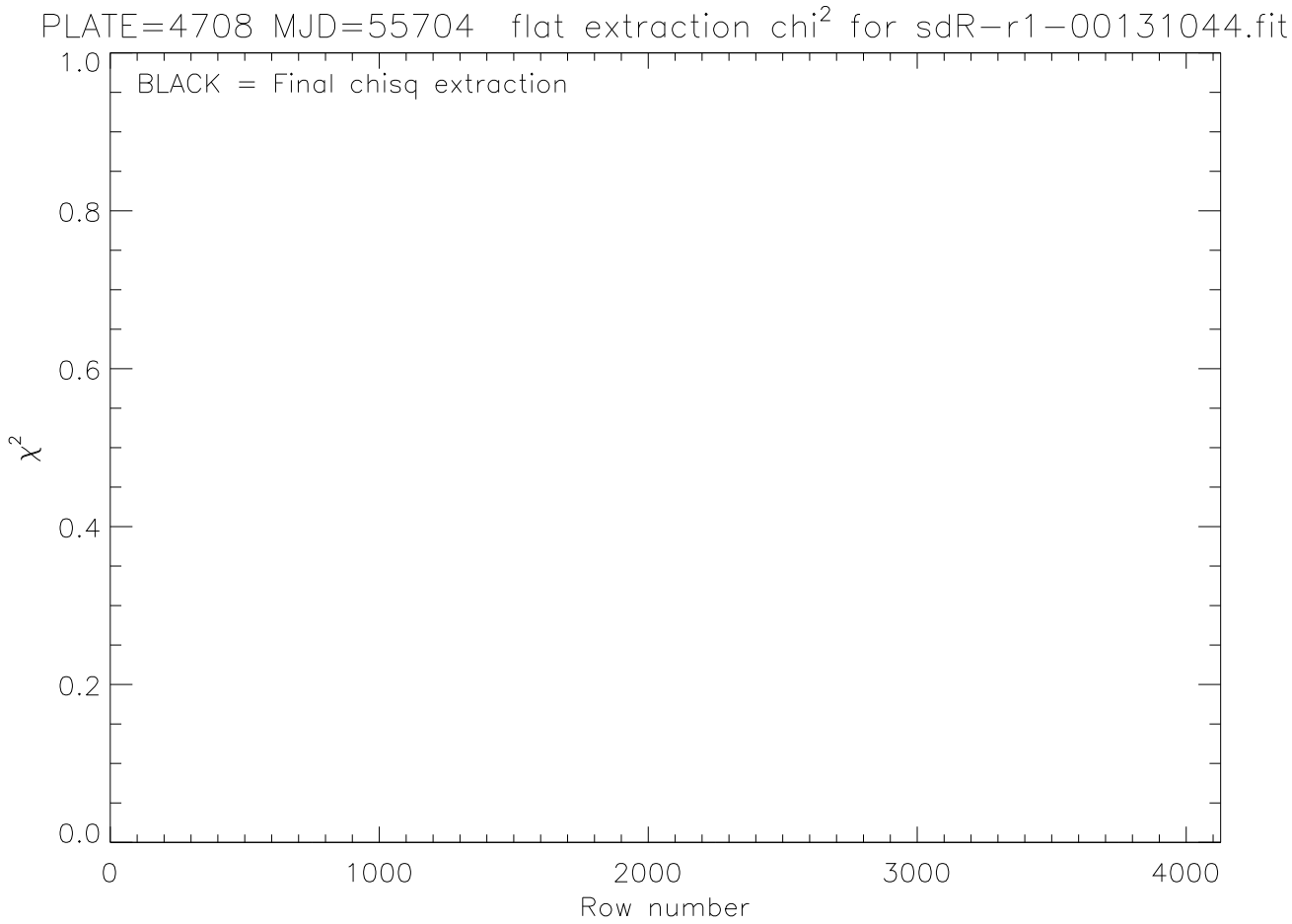


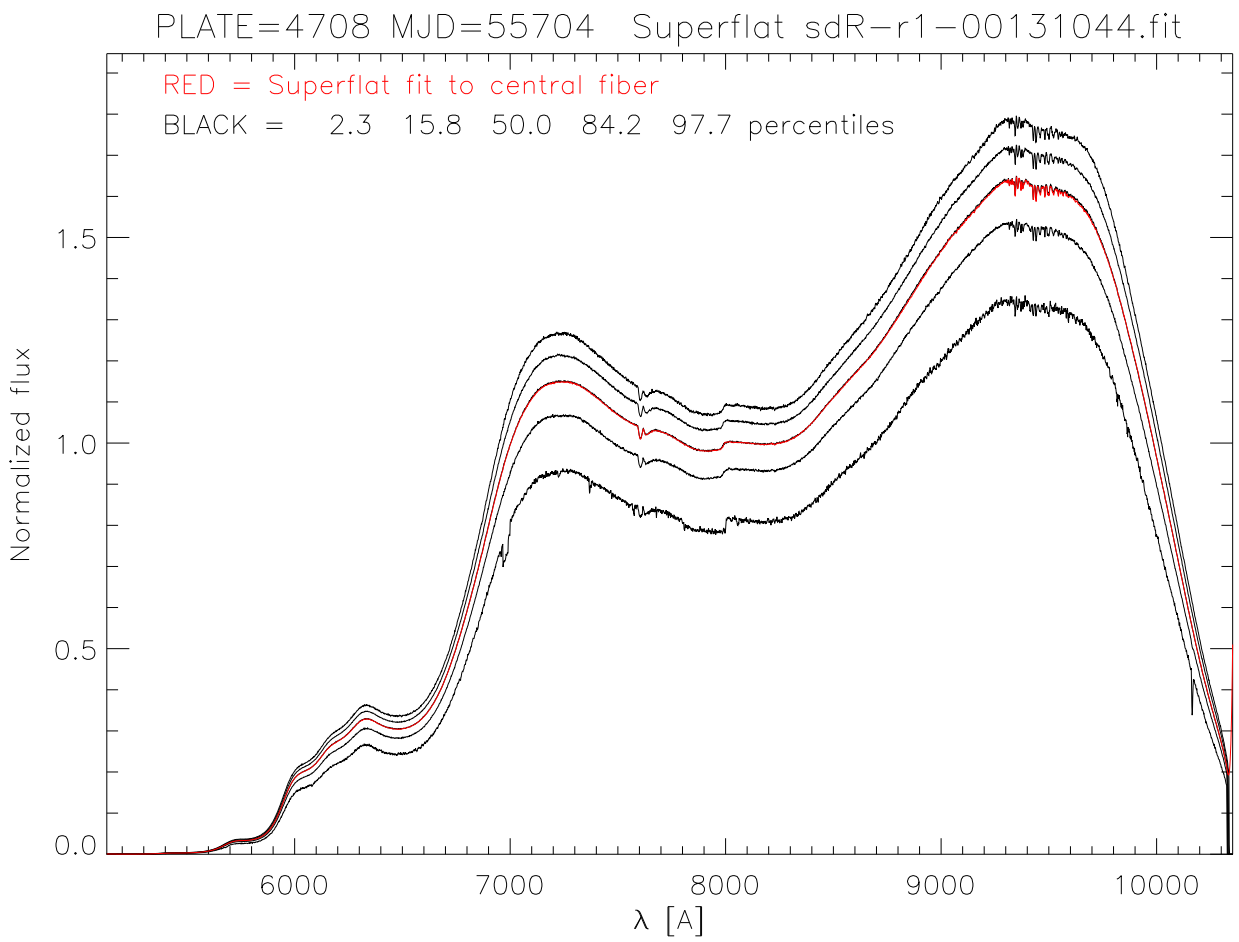

PLATE=4708 MJD=55704 sdR-b2-00131048.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky+fiber
Dispersion = 14.16 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

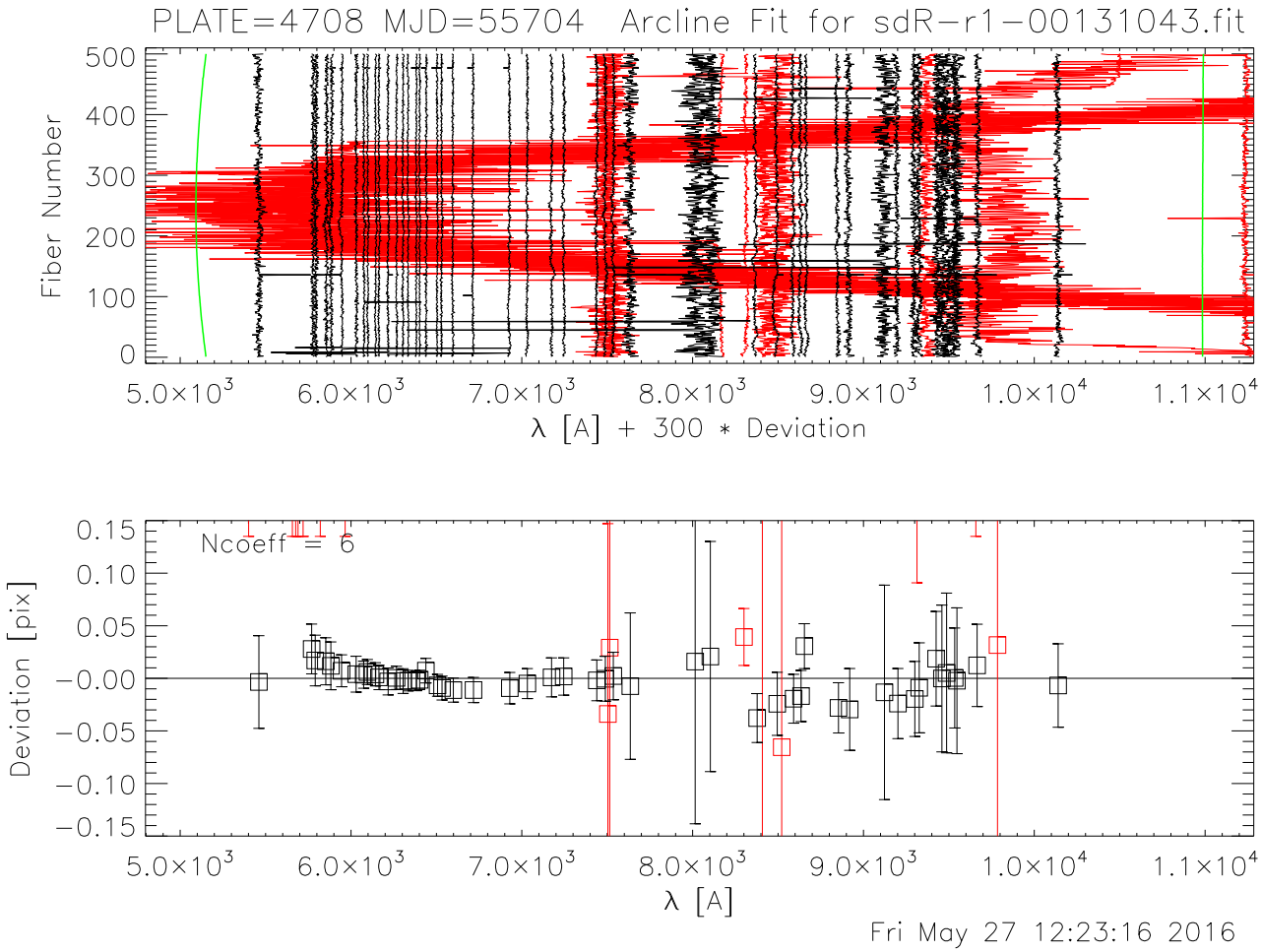

PLATE=4708 MJD=55704 sdR-b2-00131048.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Dispersion = 31.52 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

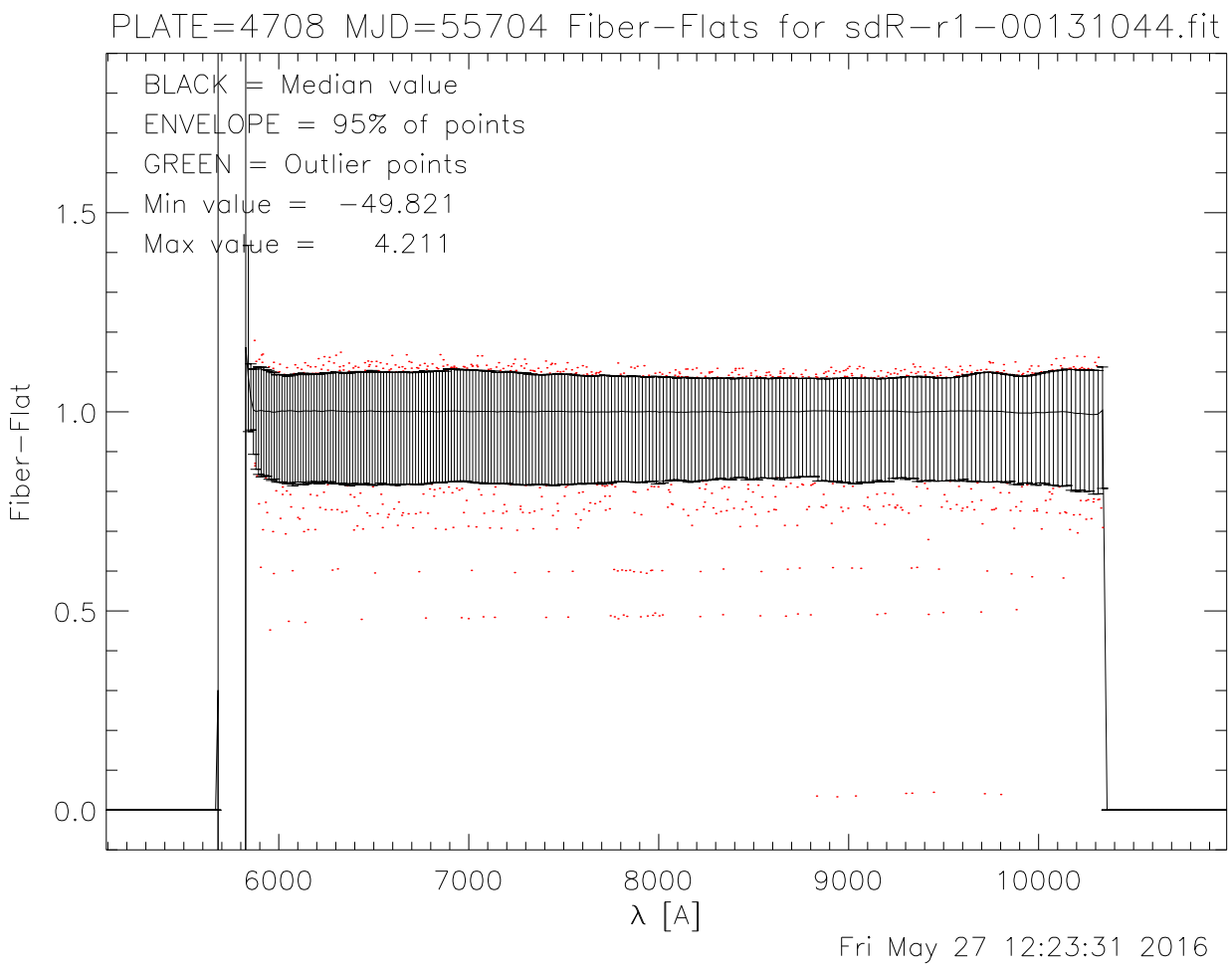
PLATE=4708 MJD=55704 Traces sdR-r1-00131044.fit

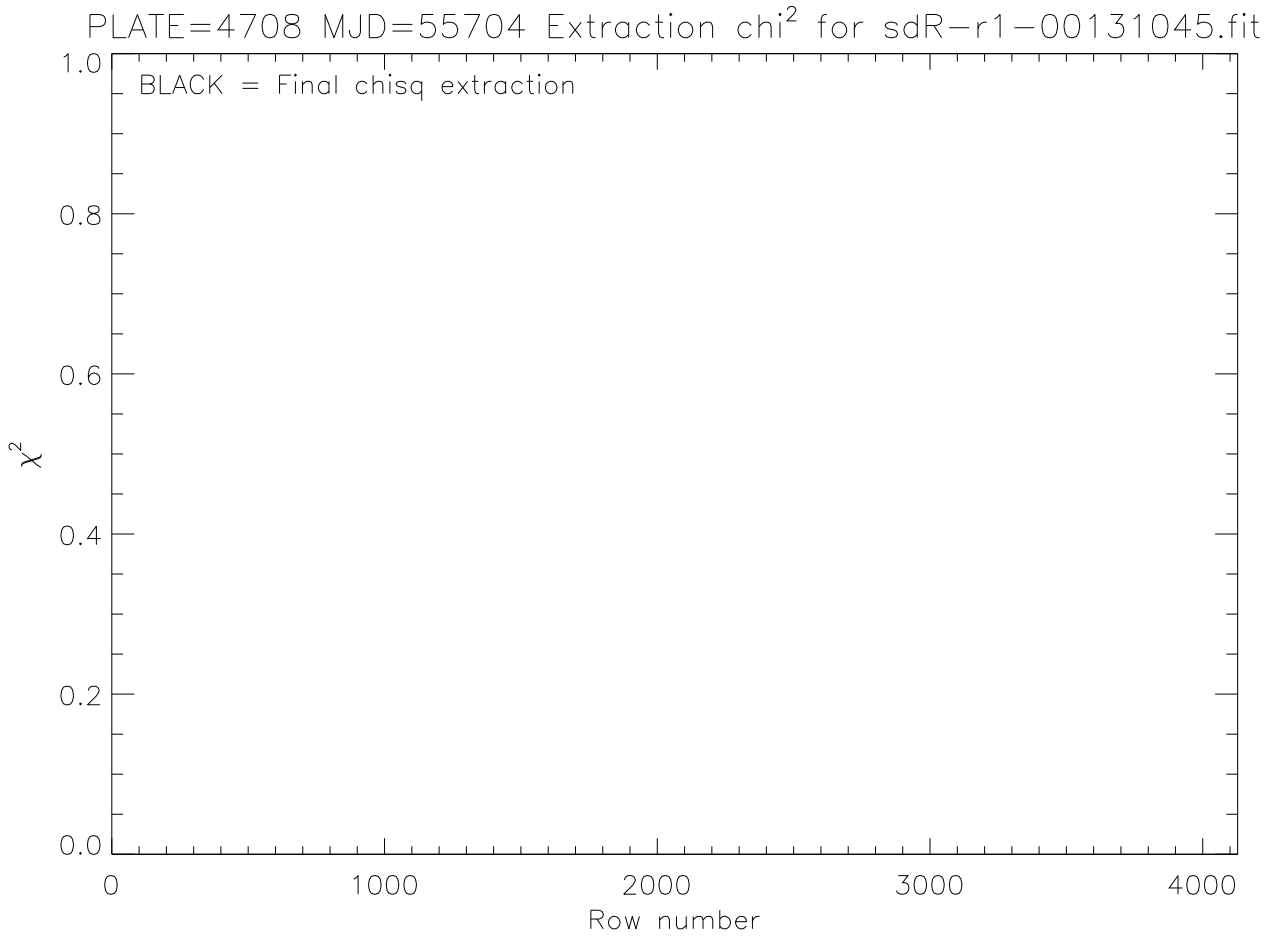


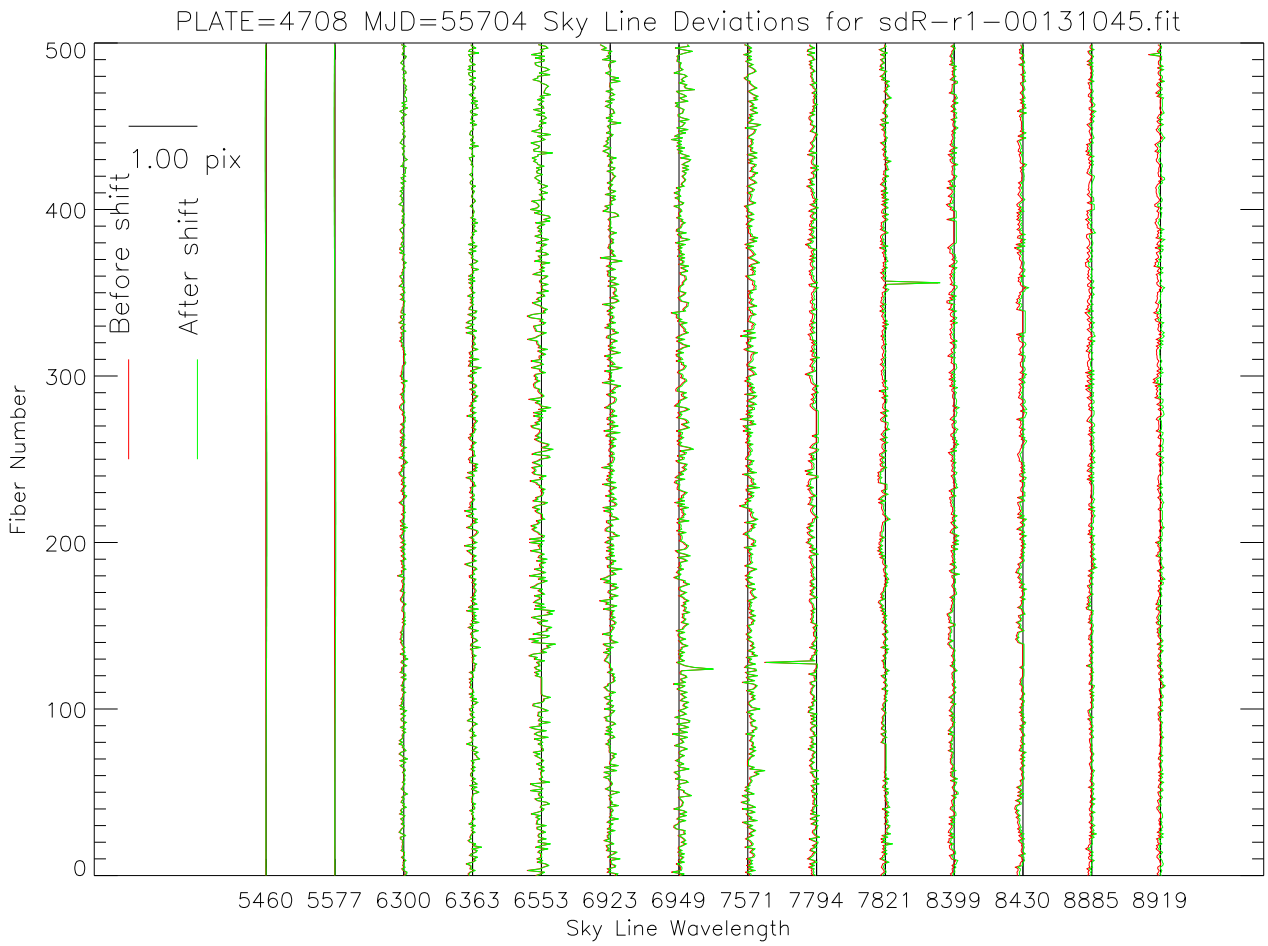

PLATE=4708 MJD=55704 flat extraction chi^2 for sdR−r1−00131044.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

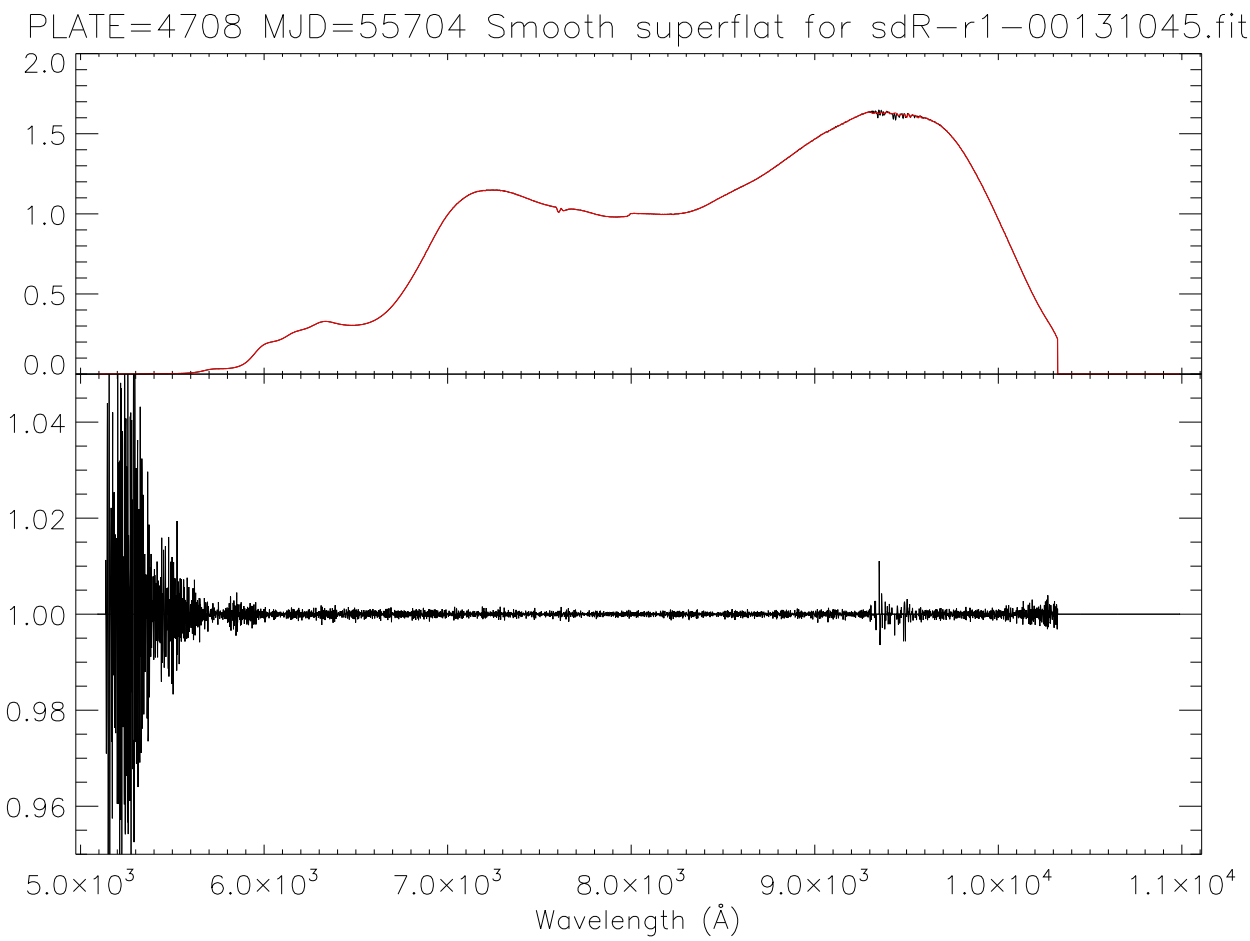

PLATE=4708 MJD=55704 Superflat sdR-r1-00131044.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

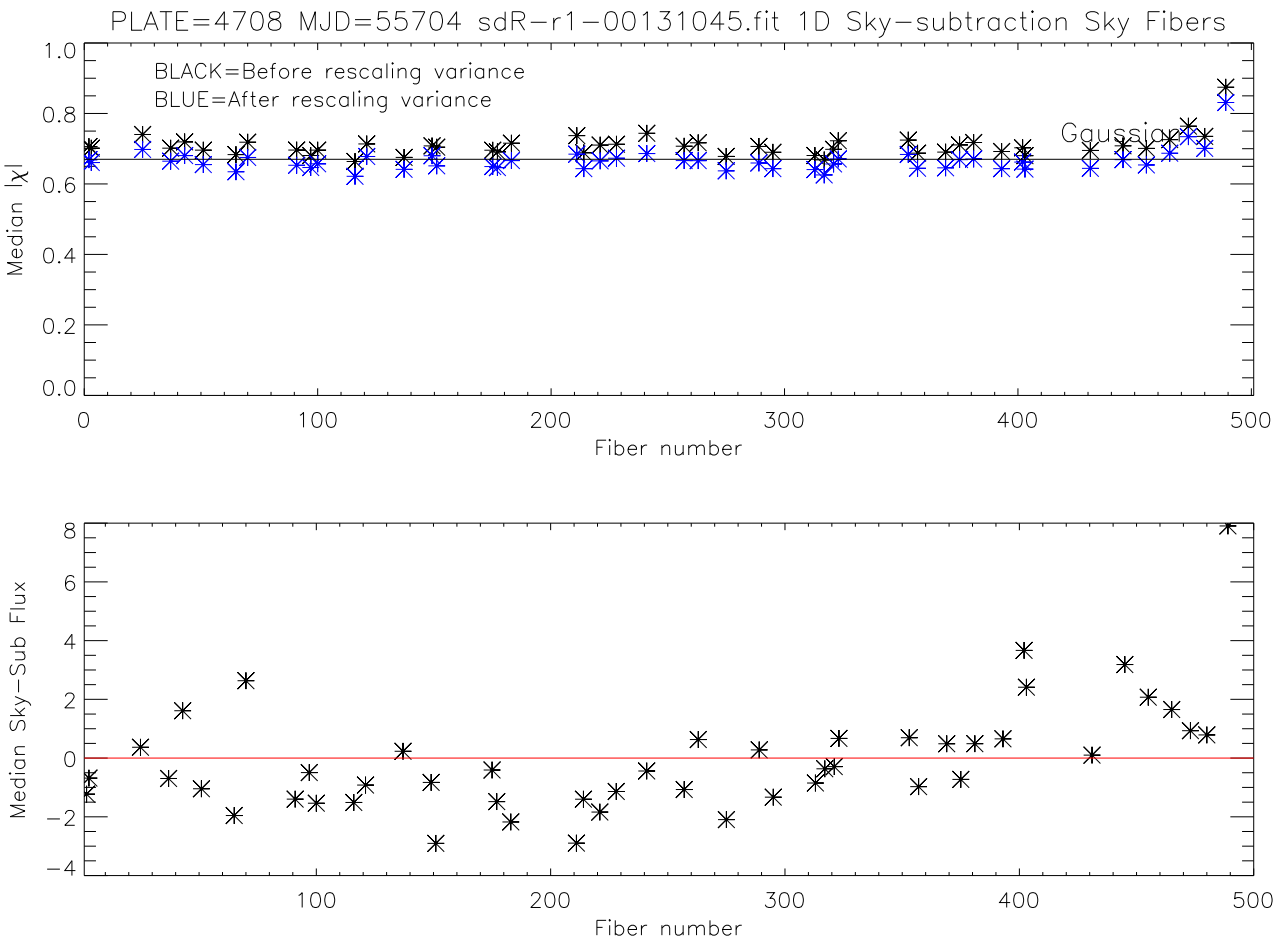

PLATE=4708 MJD=55704 Arcline Fit for sdR-r1-00131043.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Fri May 27 12:23:16 2016


PLATE=4708 MJD=55704 Fiber−Flats for sdR−r1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −49.821
Max value = 4.211
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Fri May 27 12:23:31 2016

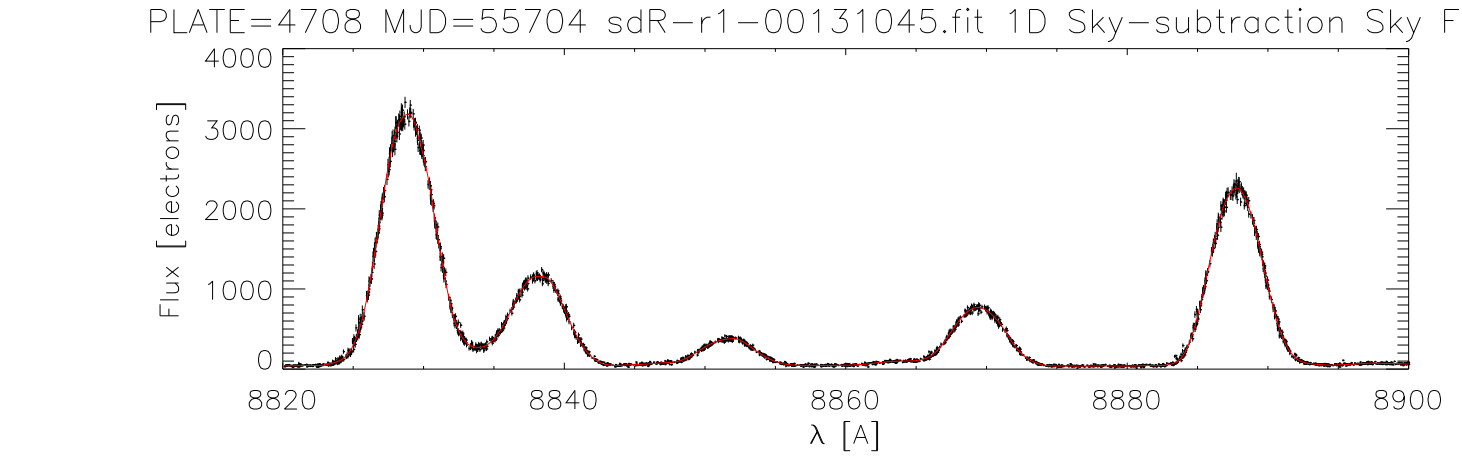

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r1−00131045.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

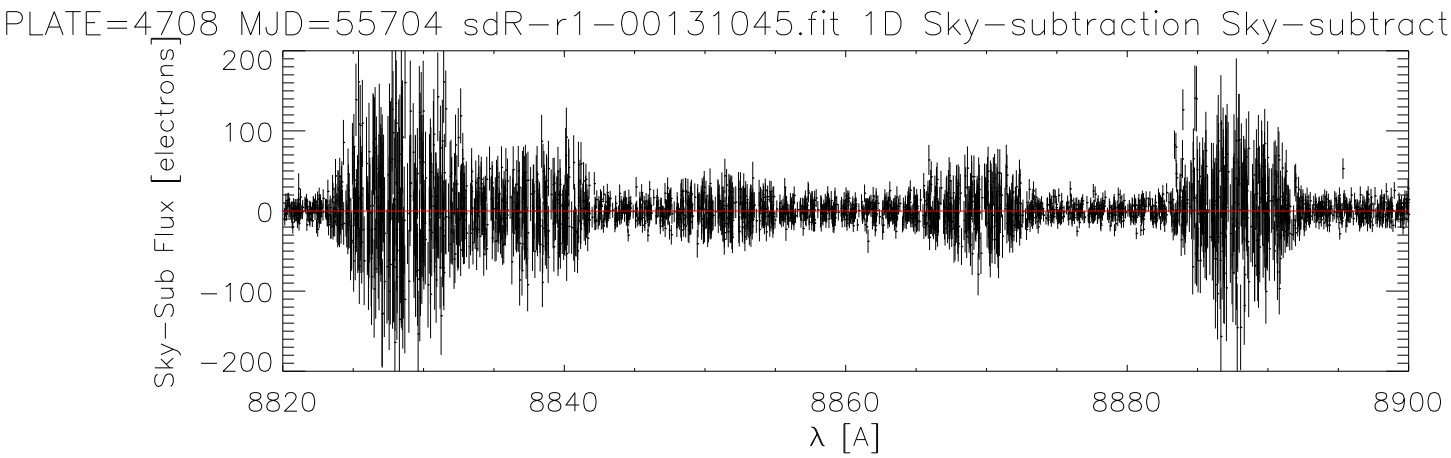

PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r1-00131045.fit
Fiber Number
500
400
300
200
100
0
1.00 pix
Before shift
After shift
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4708 MJD=55704 Smooth superflat for sdR-r1-00131045.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

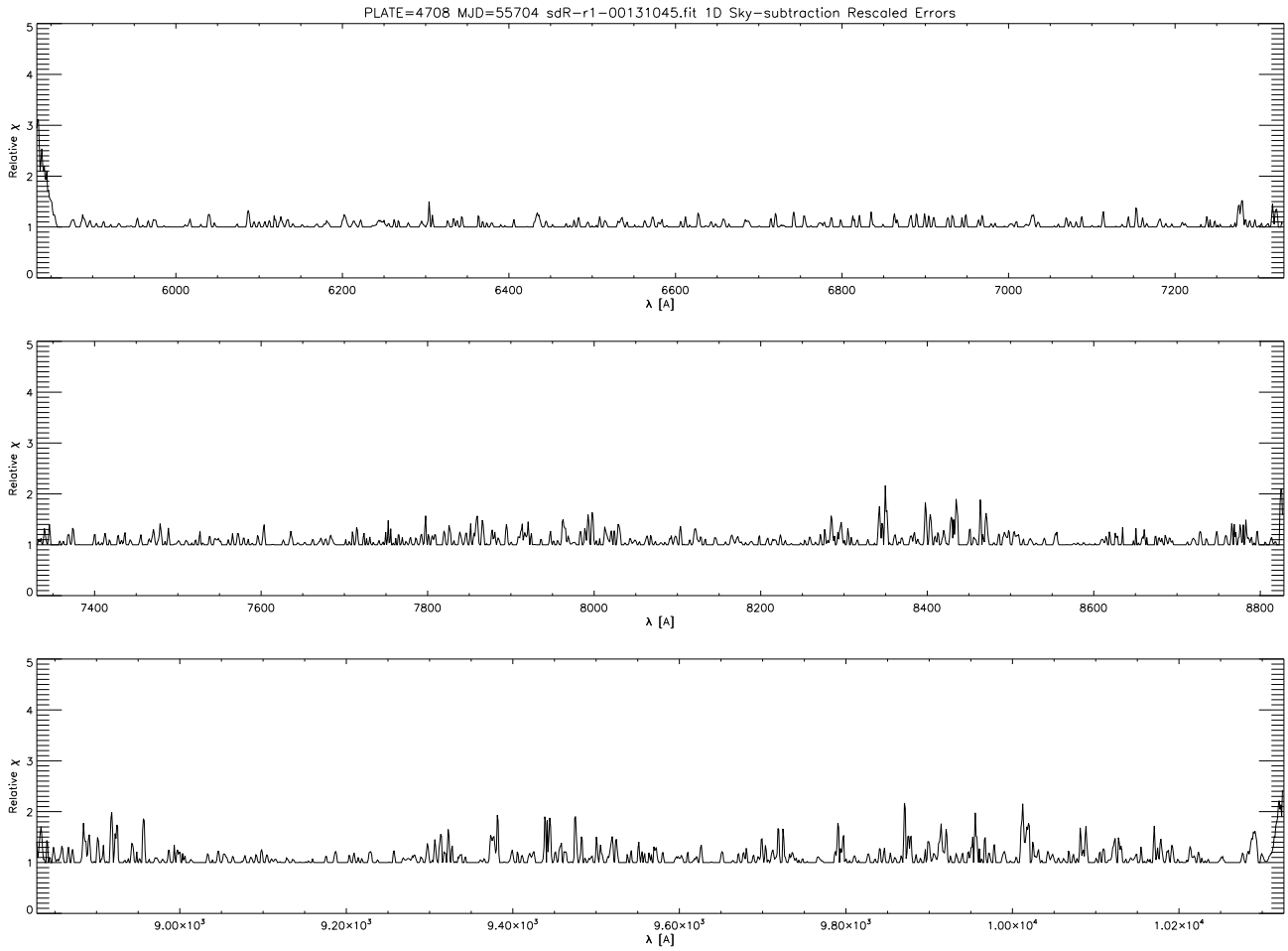

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

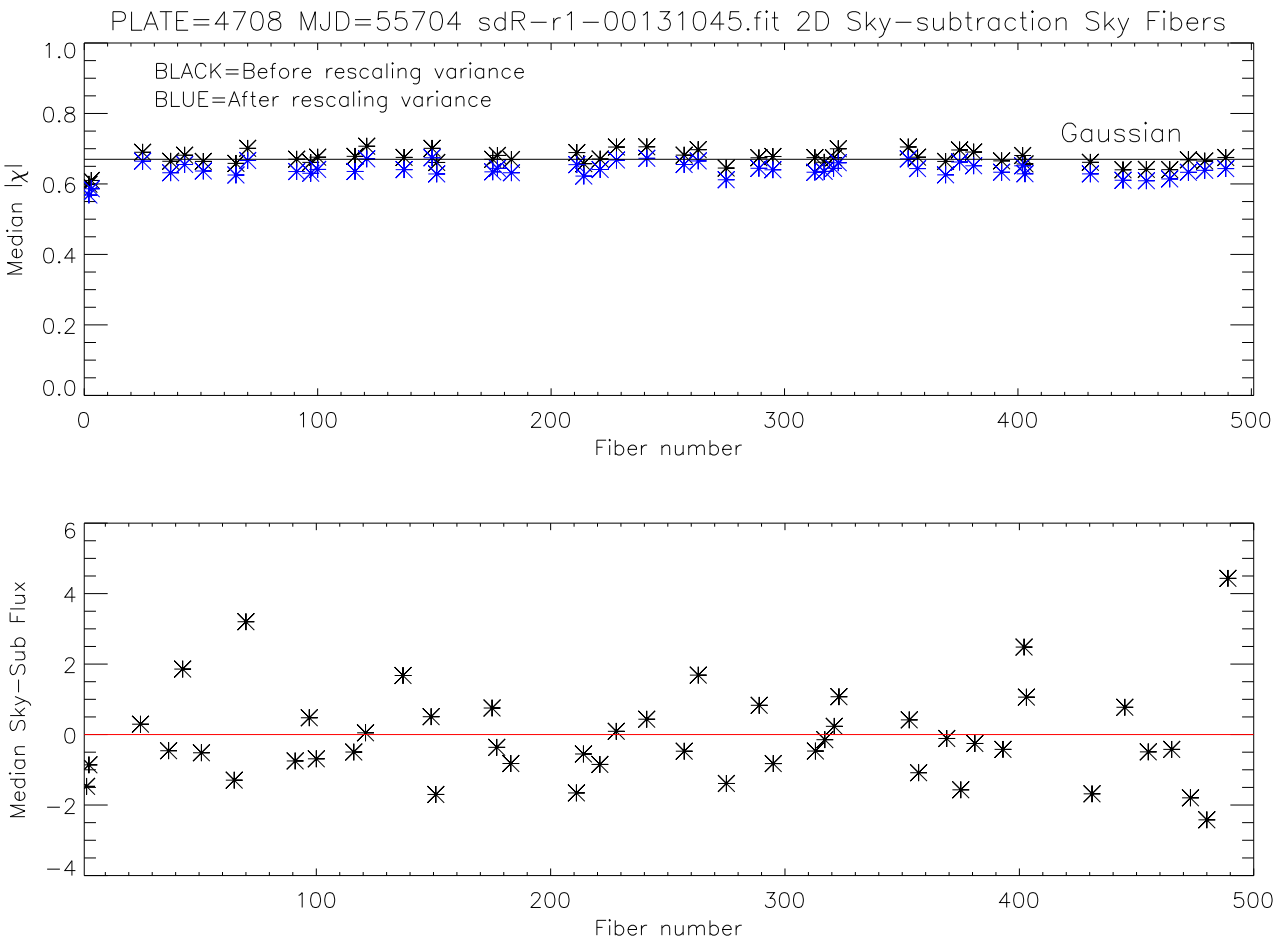
Median Sky-Sub Flux
Fiber number

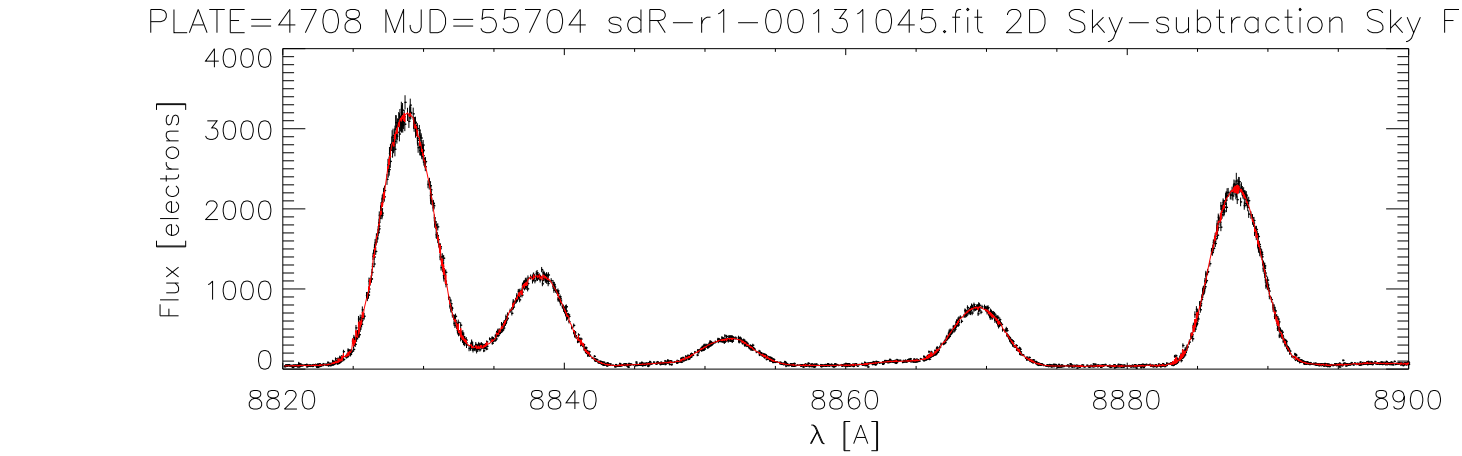

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

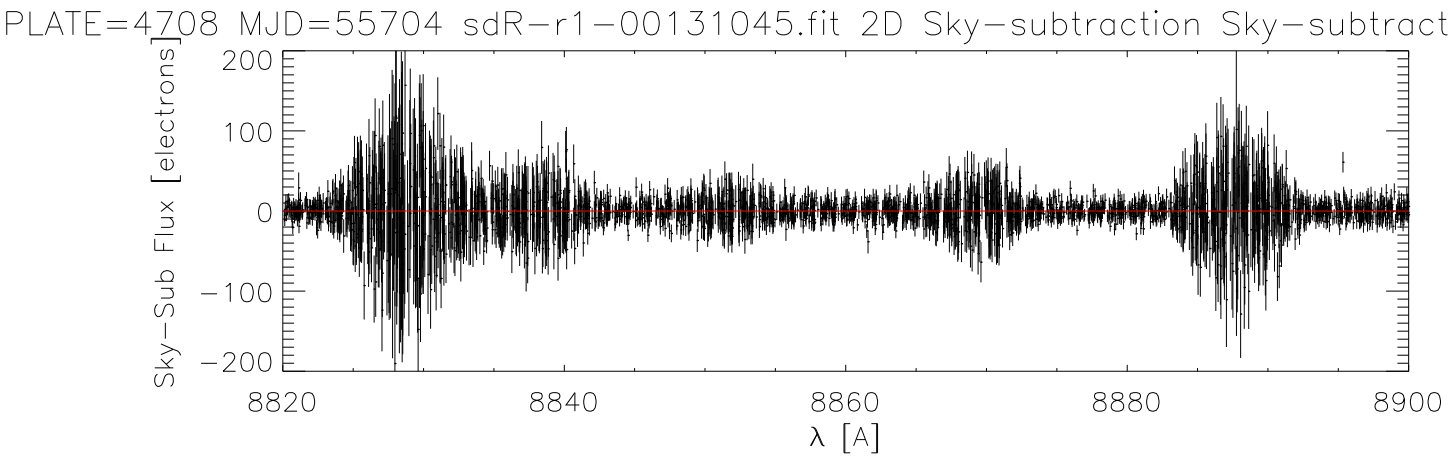

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

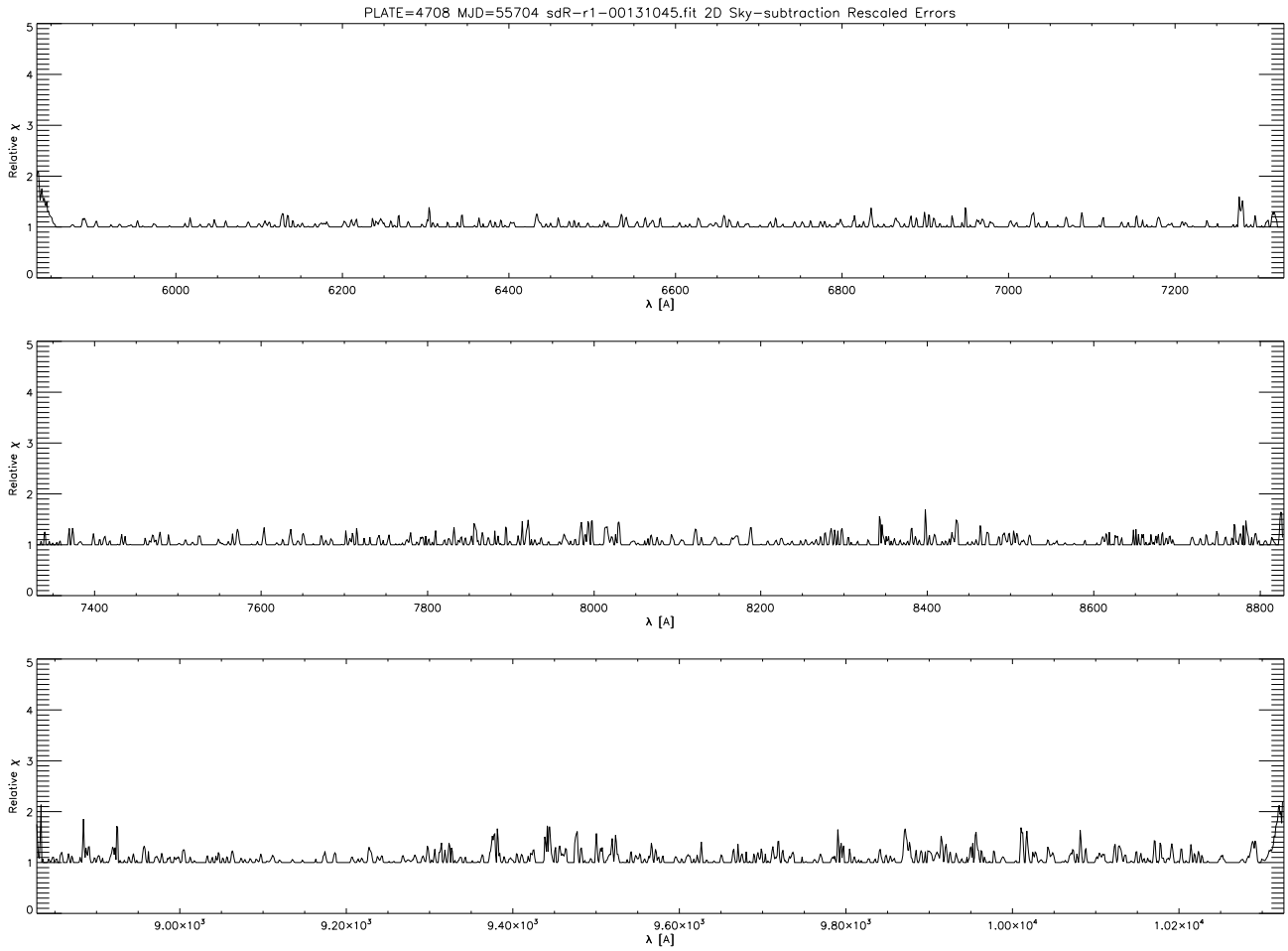


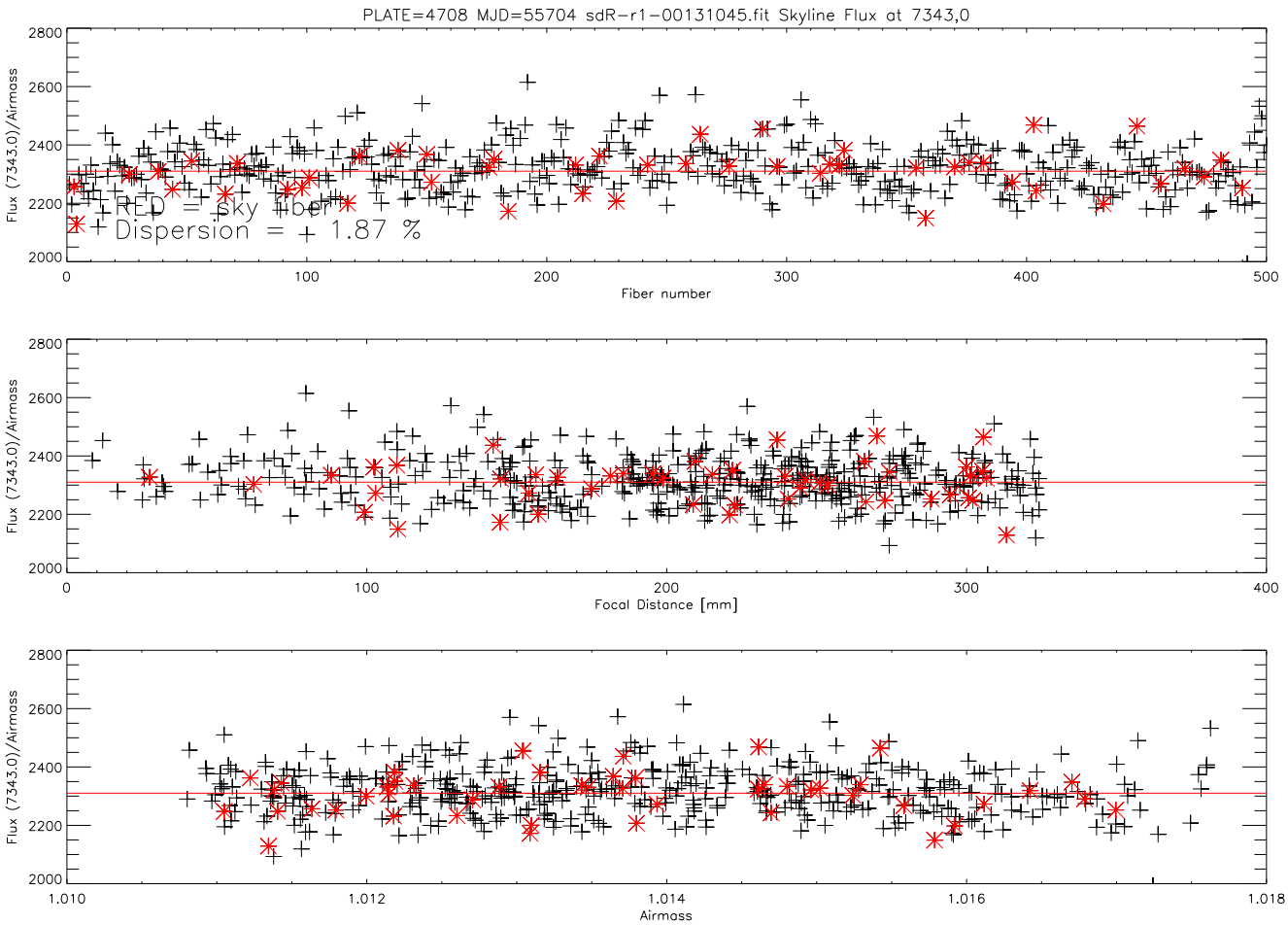

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

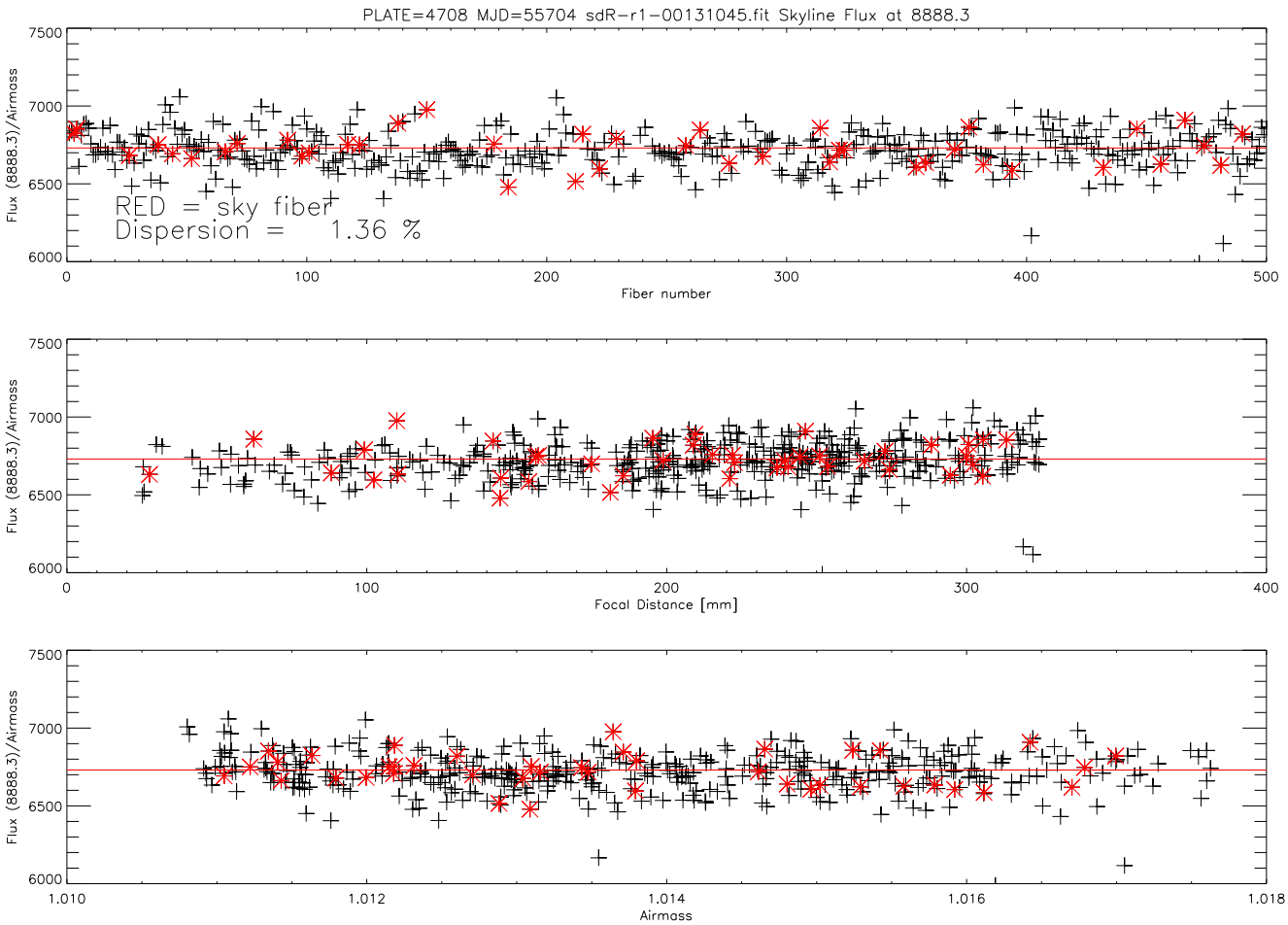

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

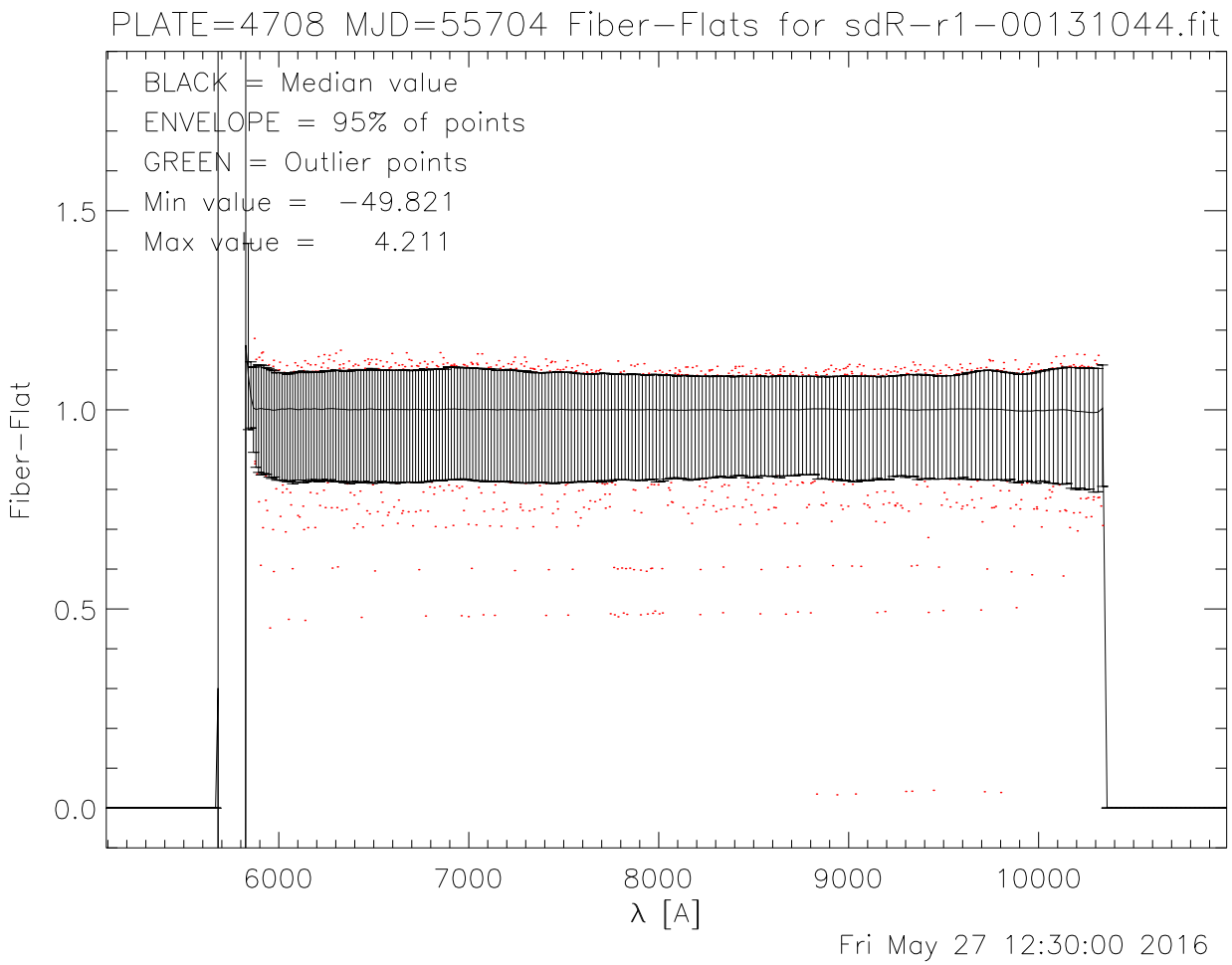

PLATE=4708 MJD=55704 sdR-r1-00131045.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

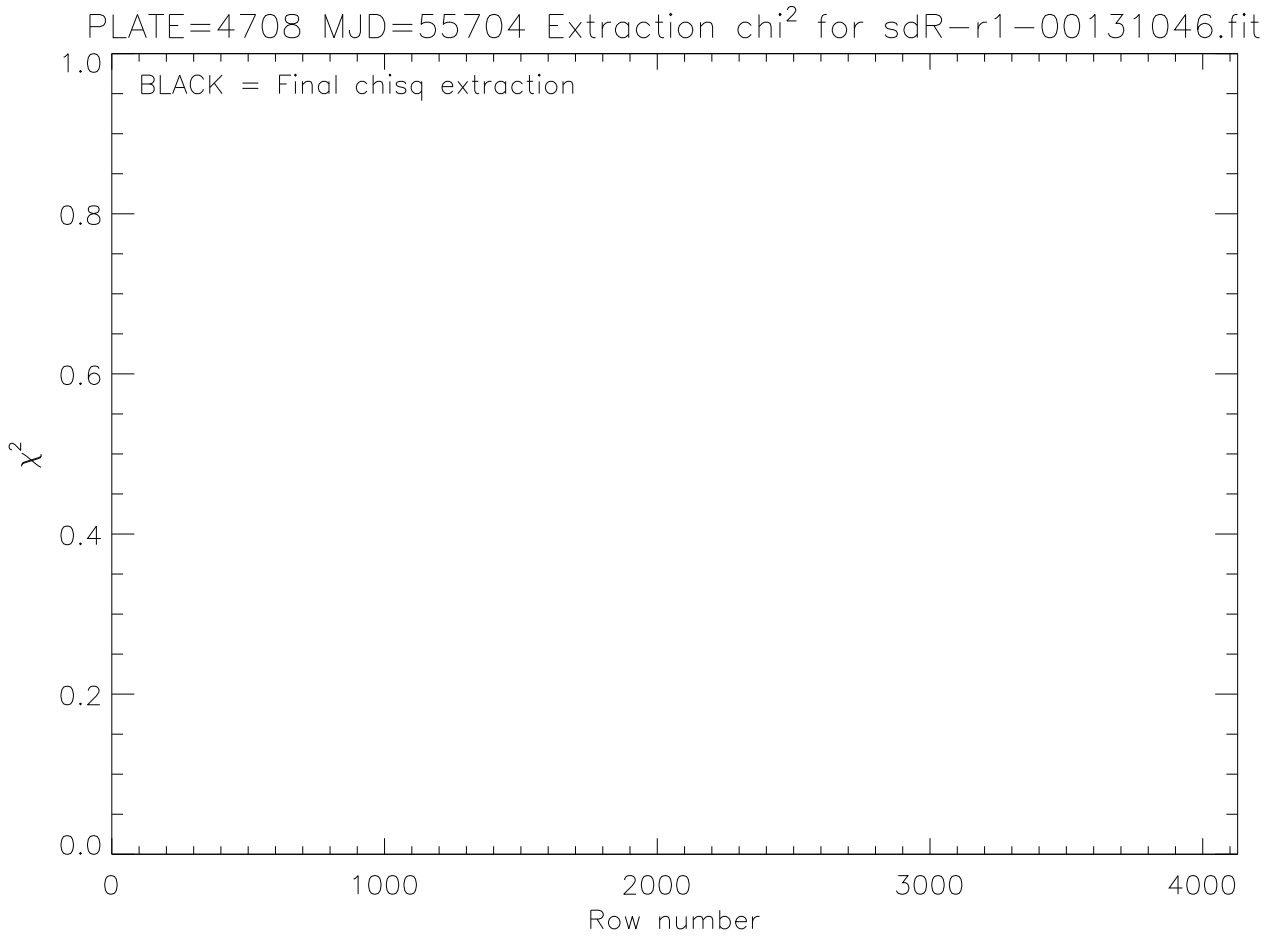
Number of sky fibers = 48

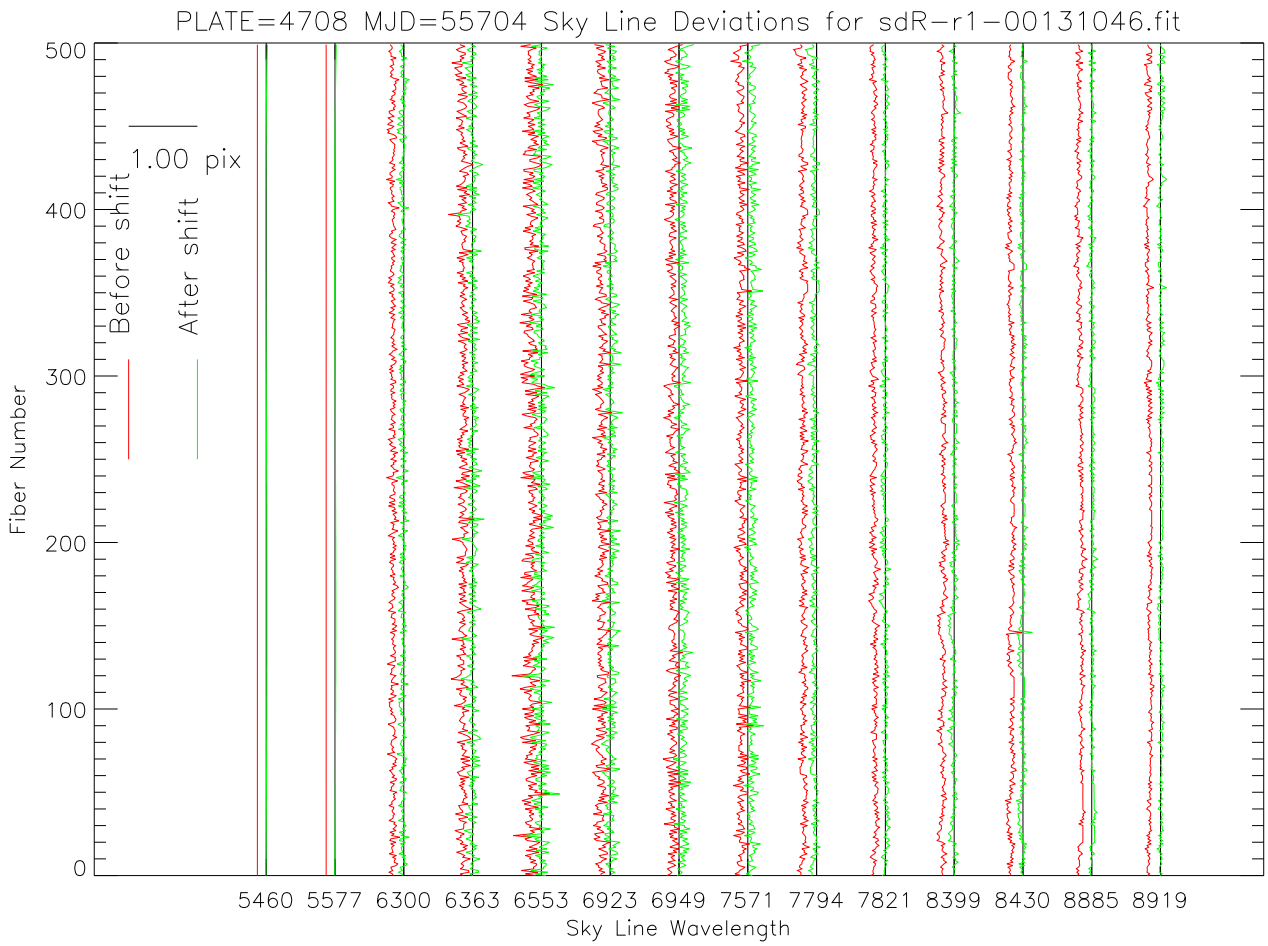


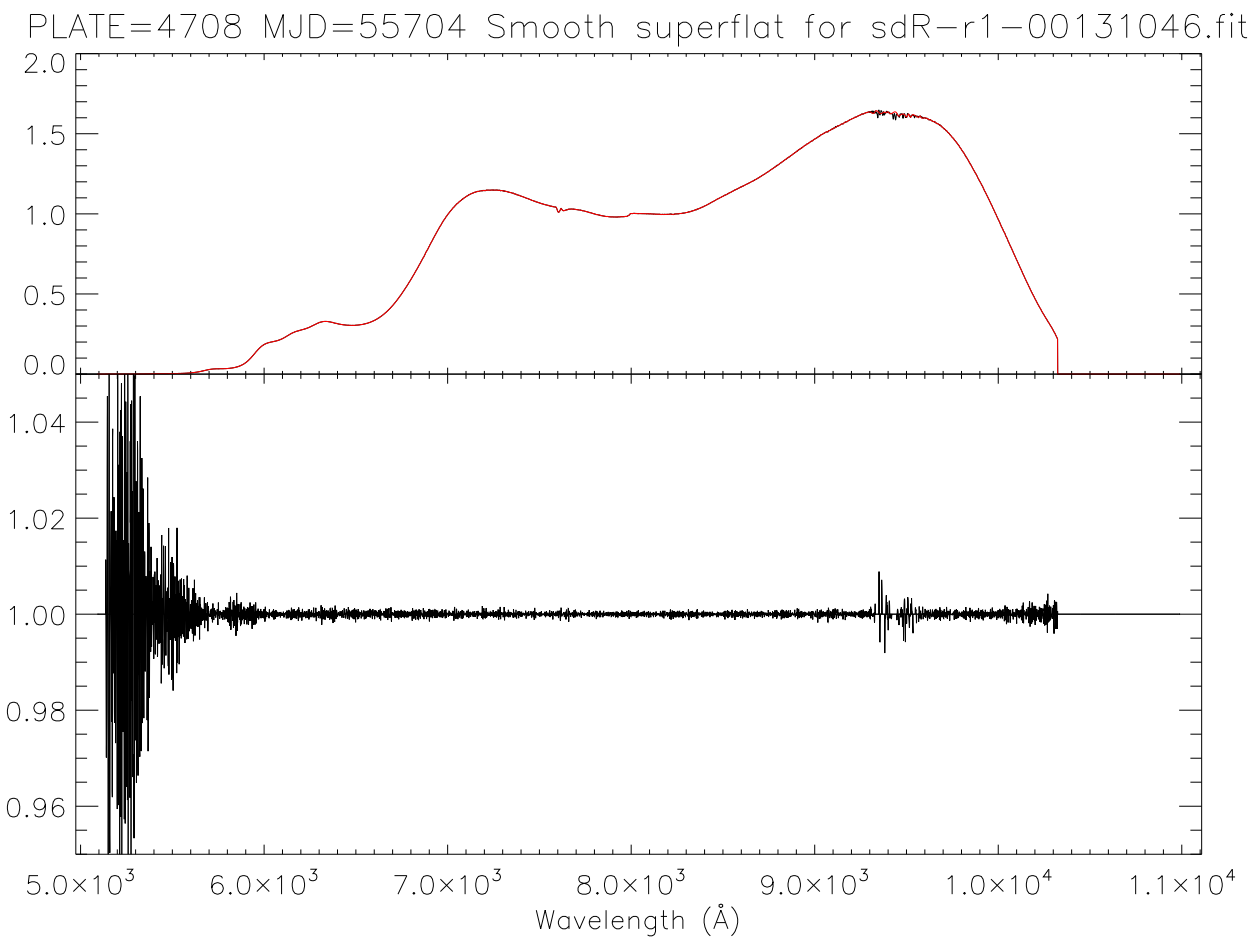

PLATE=4708 MJD=55704 sdR-r1-00131045.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
Focal Distance [mm]
Airmass
+ RED = sky fiber
+ Dispersion = + 1.87 %

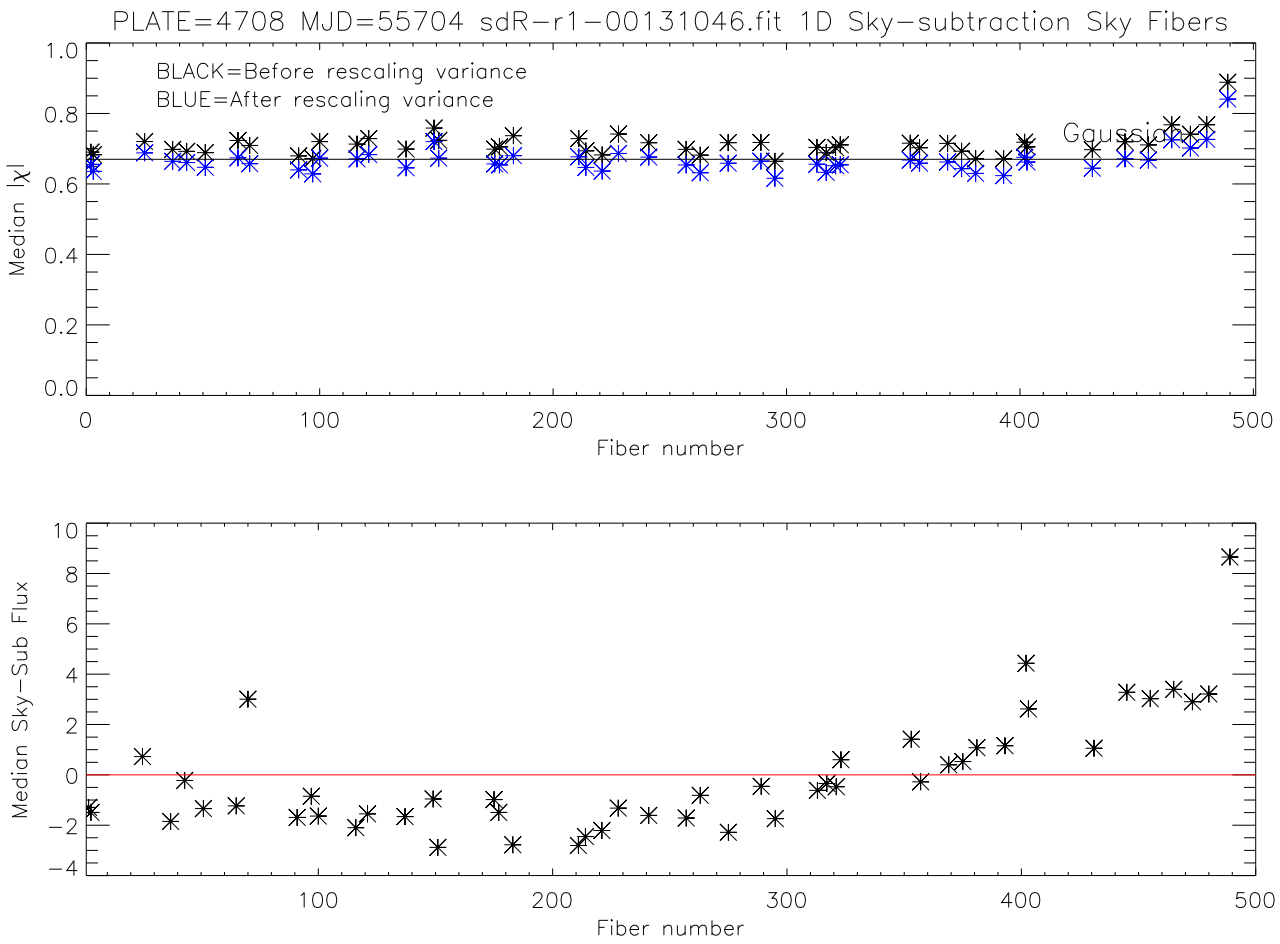

PLATE=4708 MJD=55704 sdR-r1-00131045.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.36 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

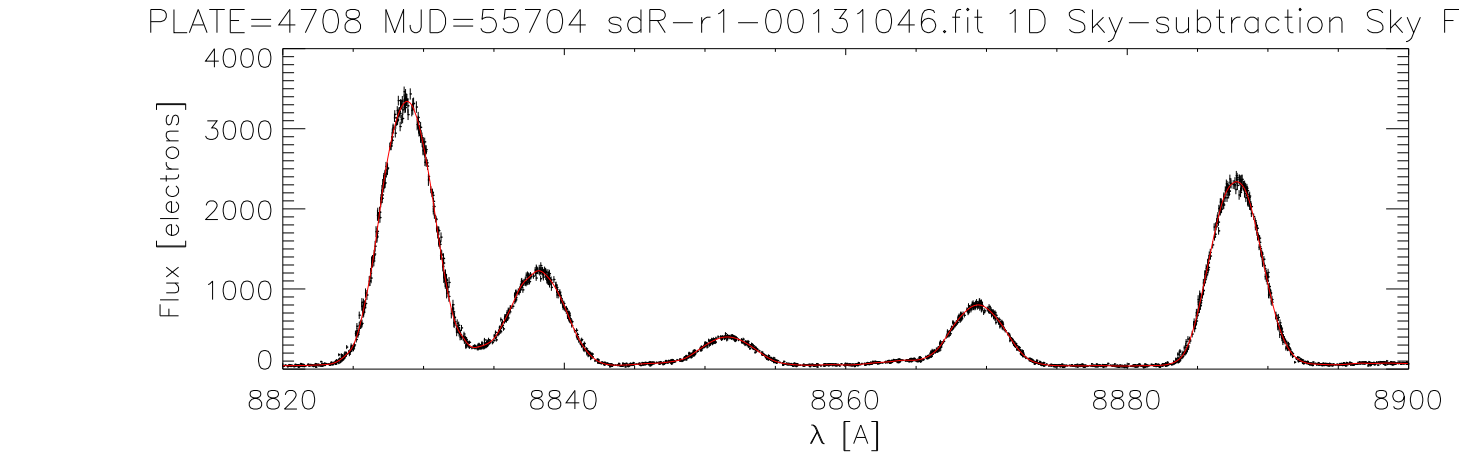

PLATE=4708 MJD=55704 Fiber−Flats for sdR−r1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −49.821
Max value = 4.211
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Fri May 27 12:30:00 2016

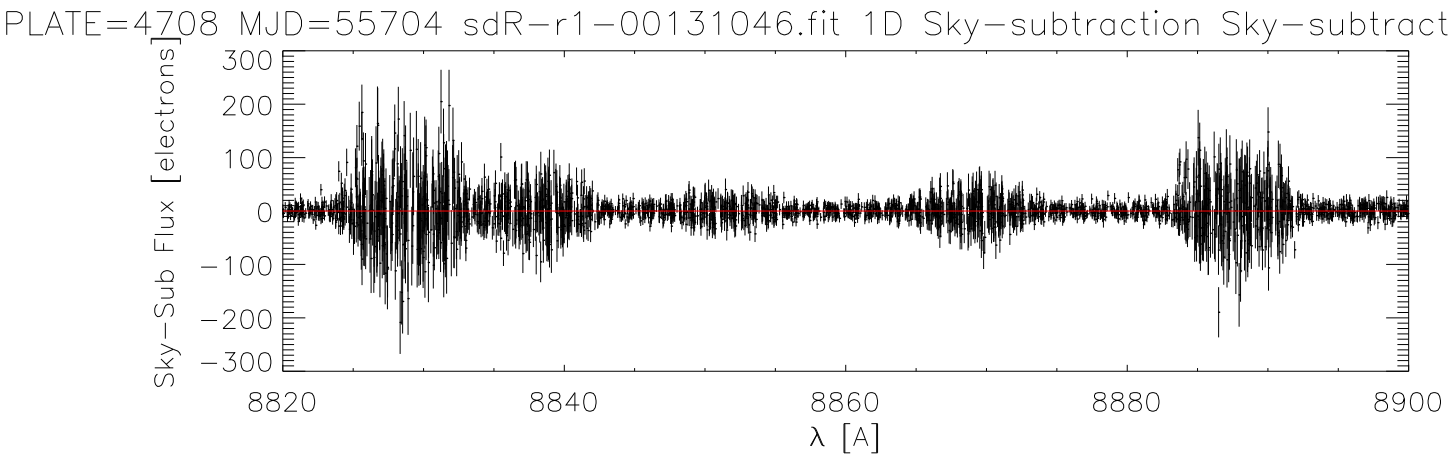

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r1−00131046.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r1-00131046.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

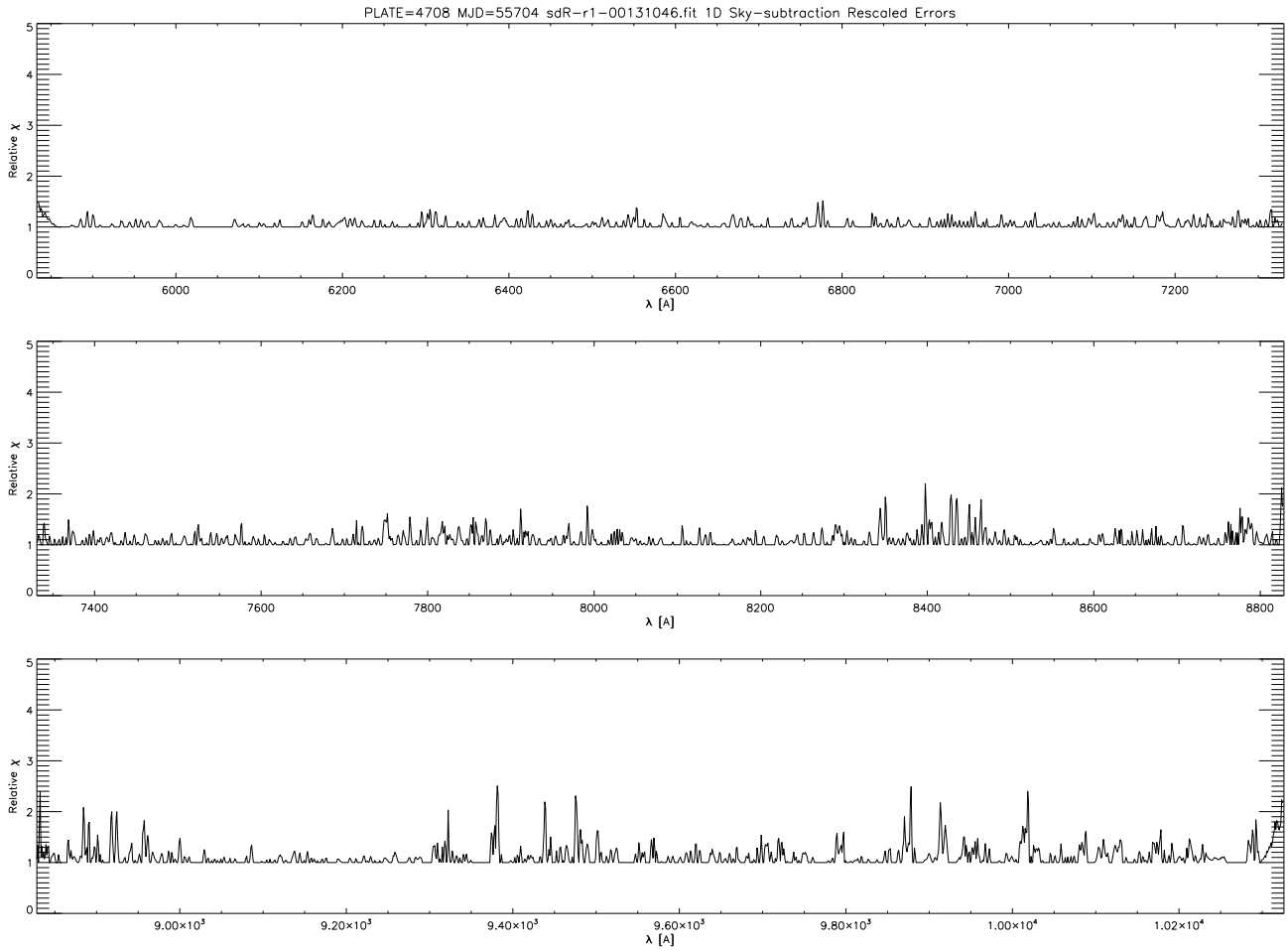

PLATE=4708 MJD=55704 Smooth superflat for sdR-r1-00131046.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

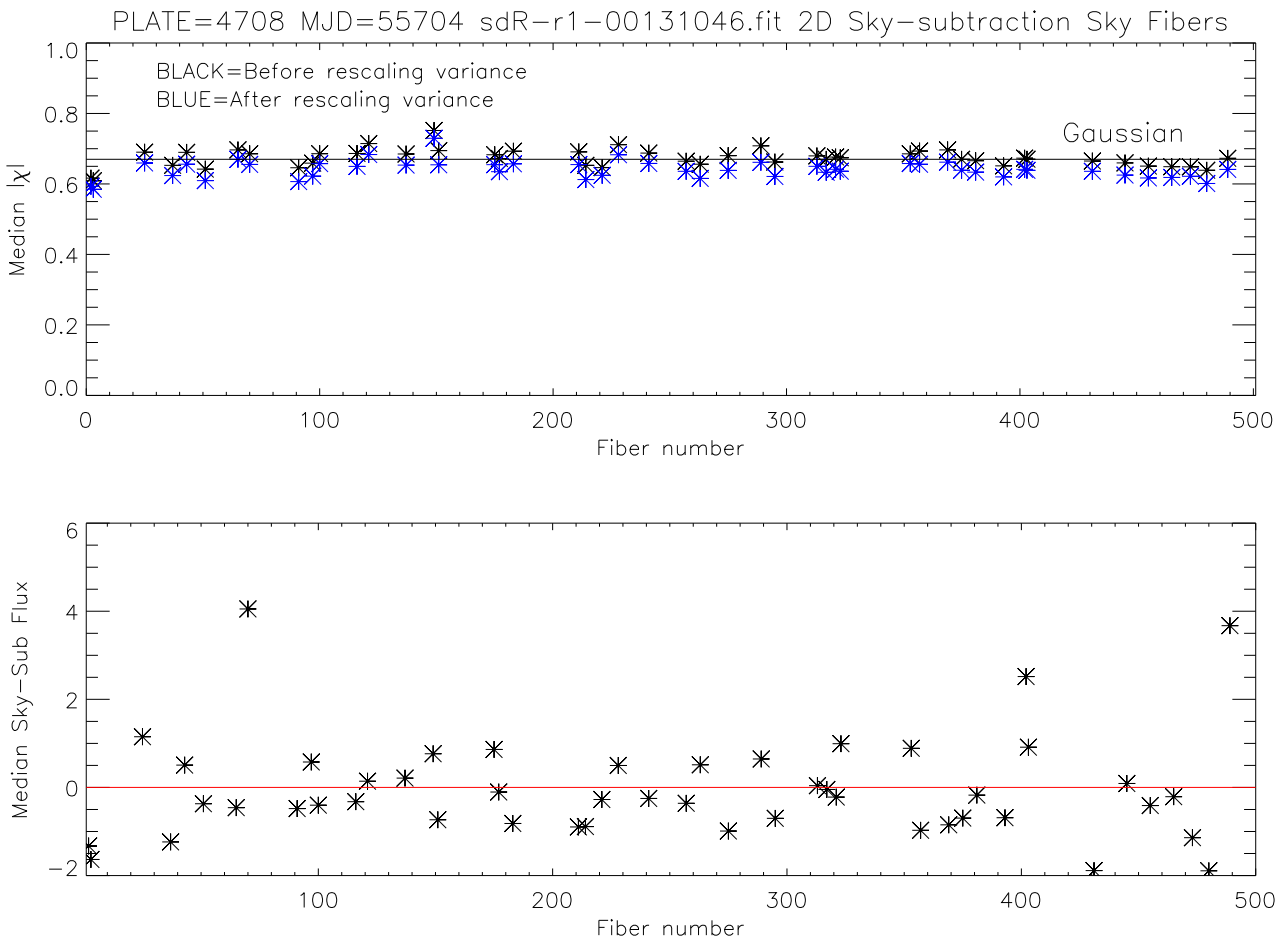

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

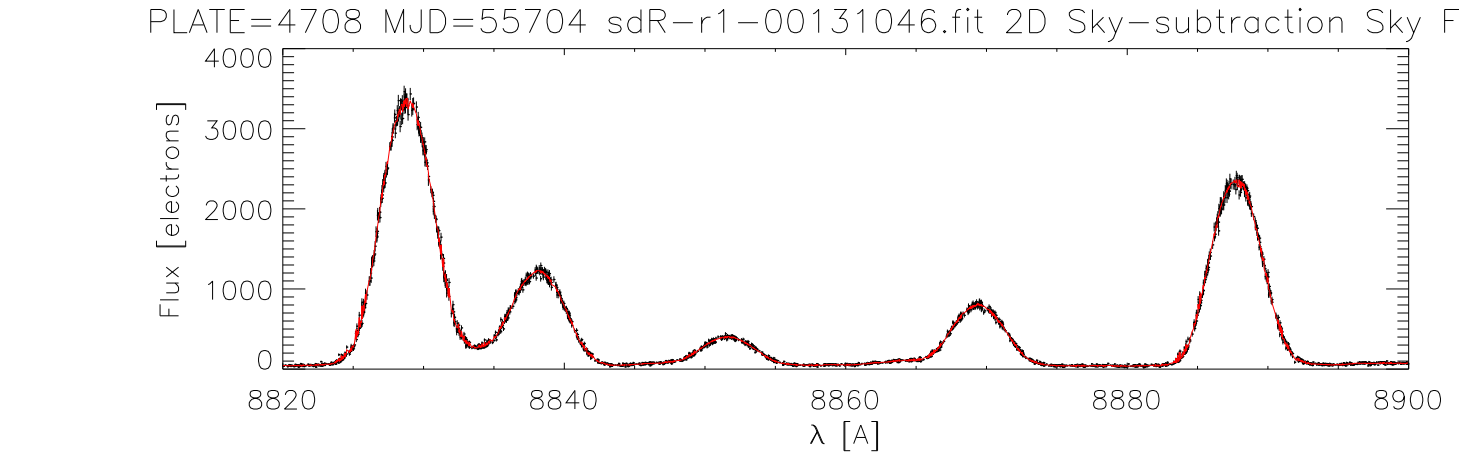

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

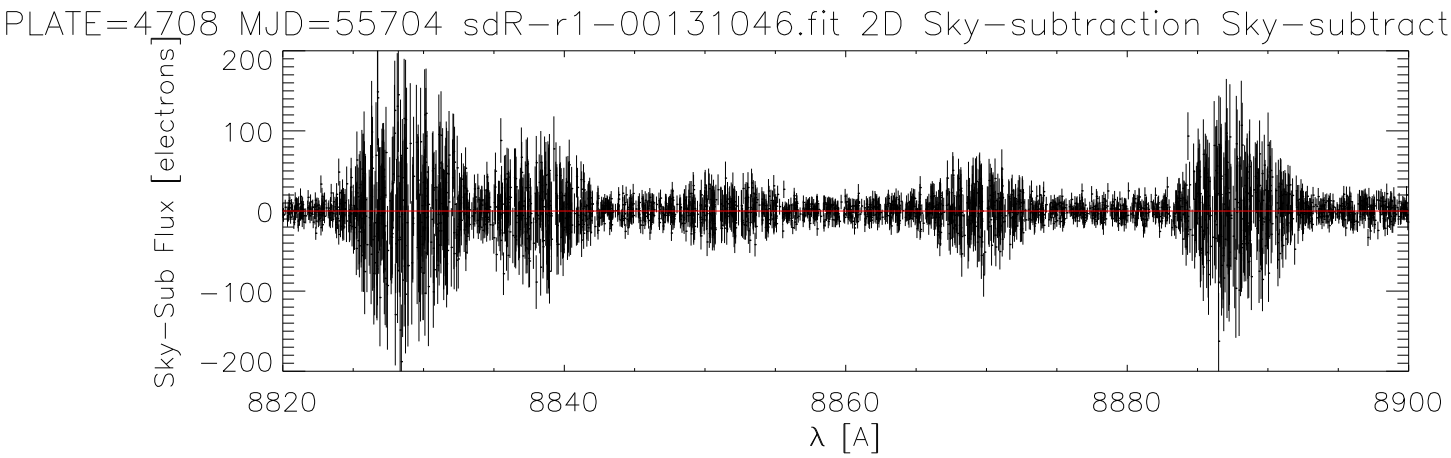

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

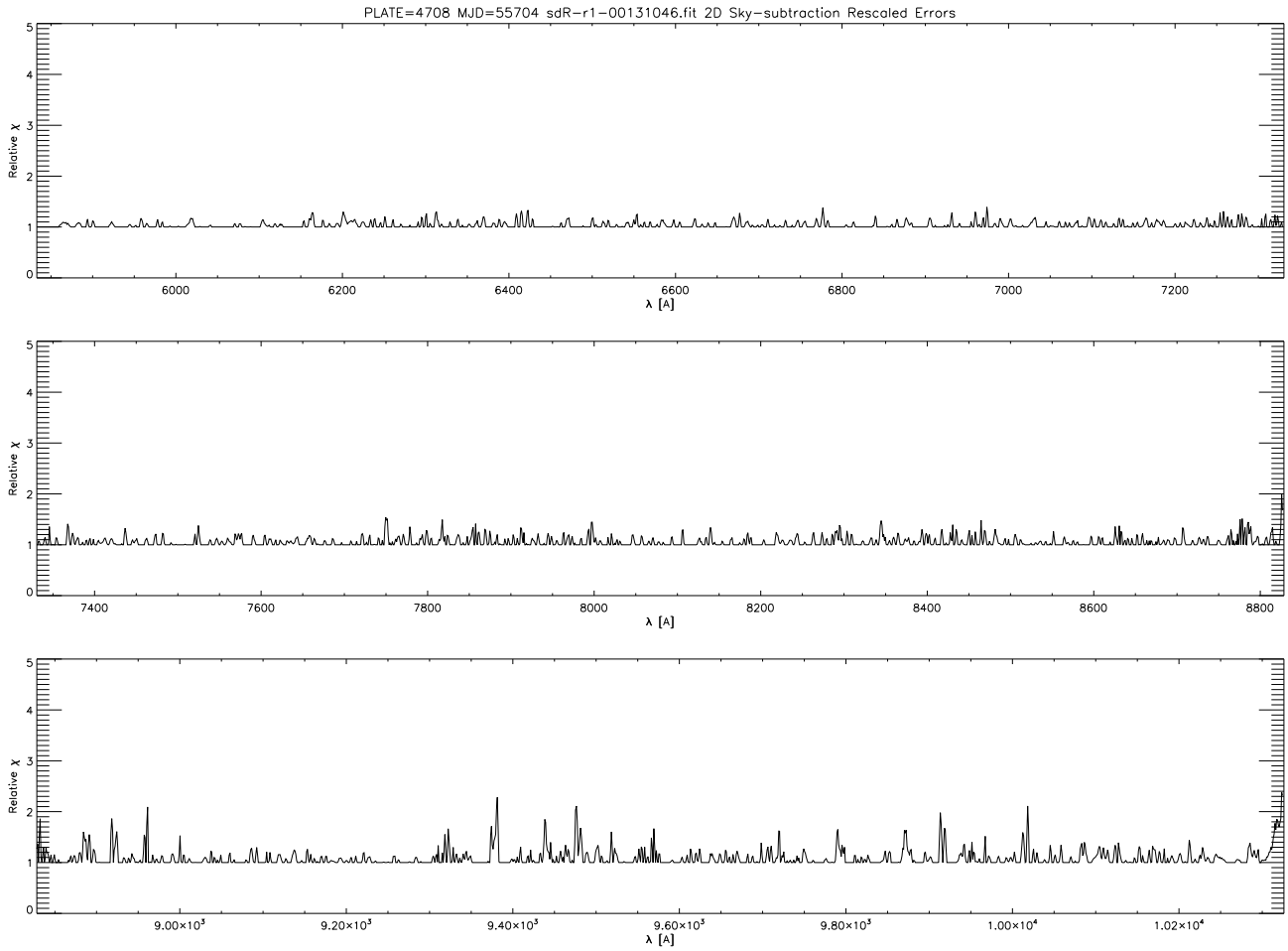


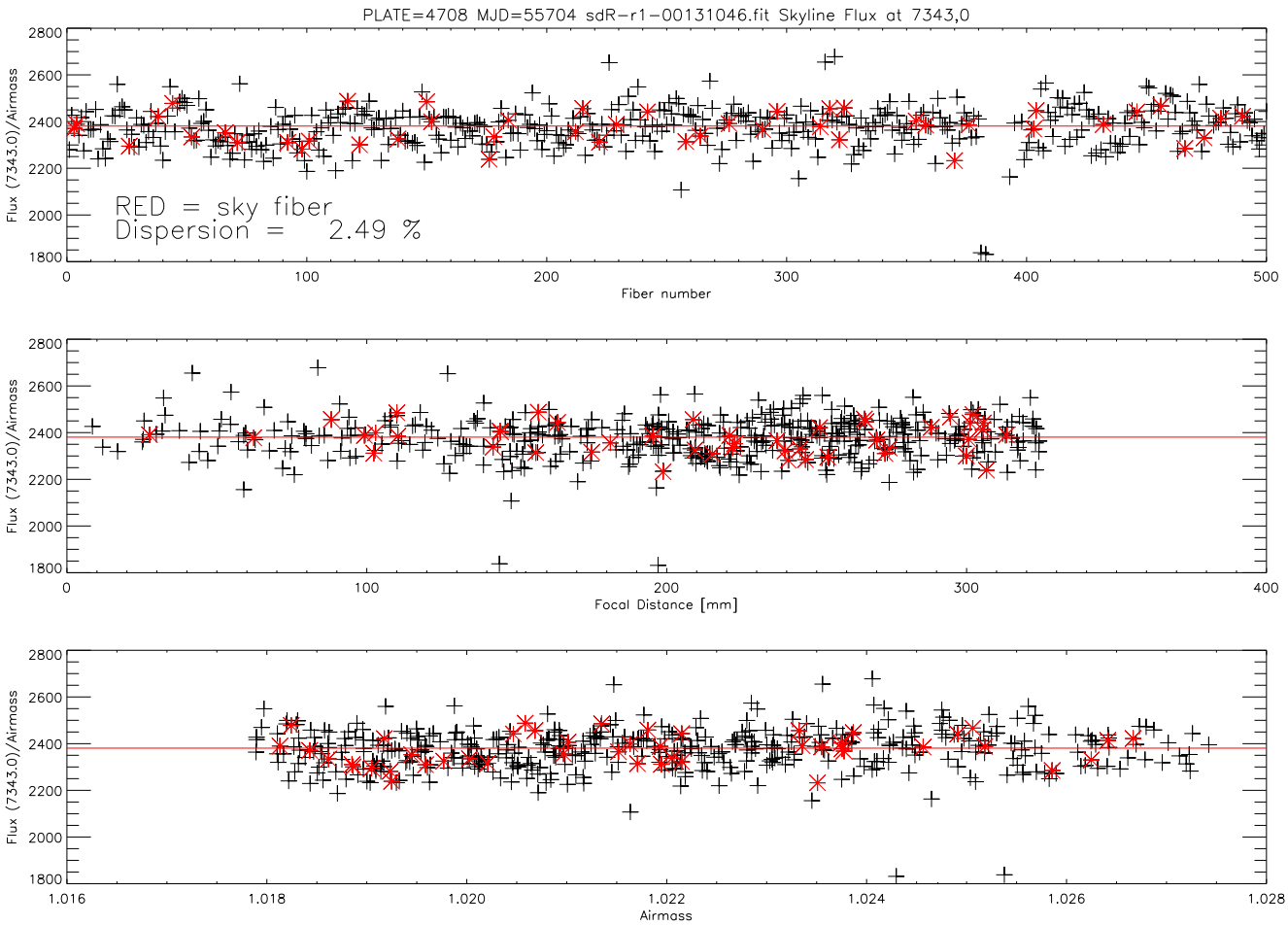

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

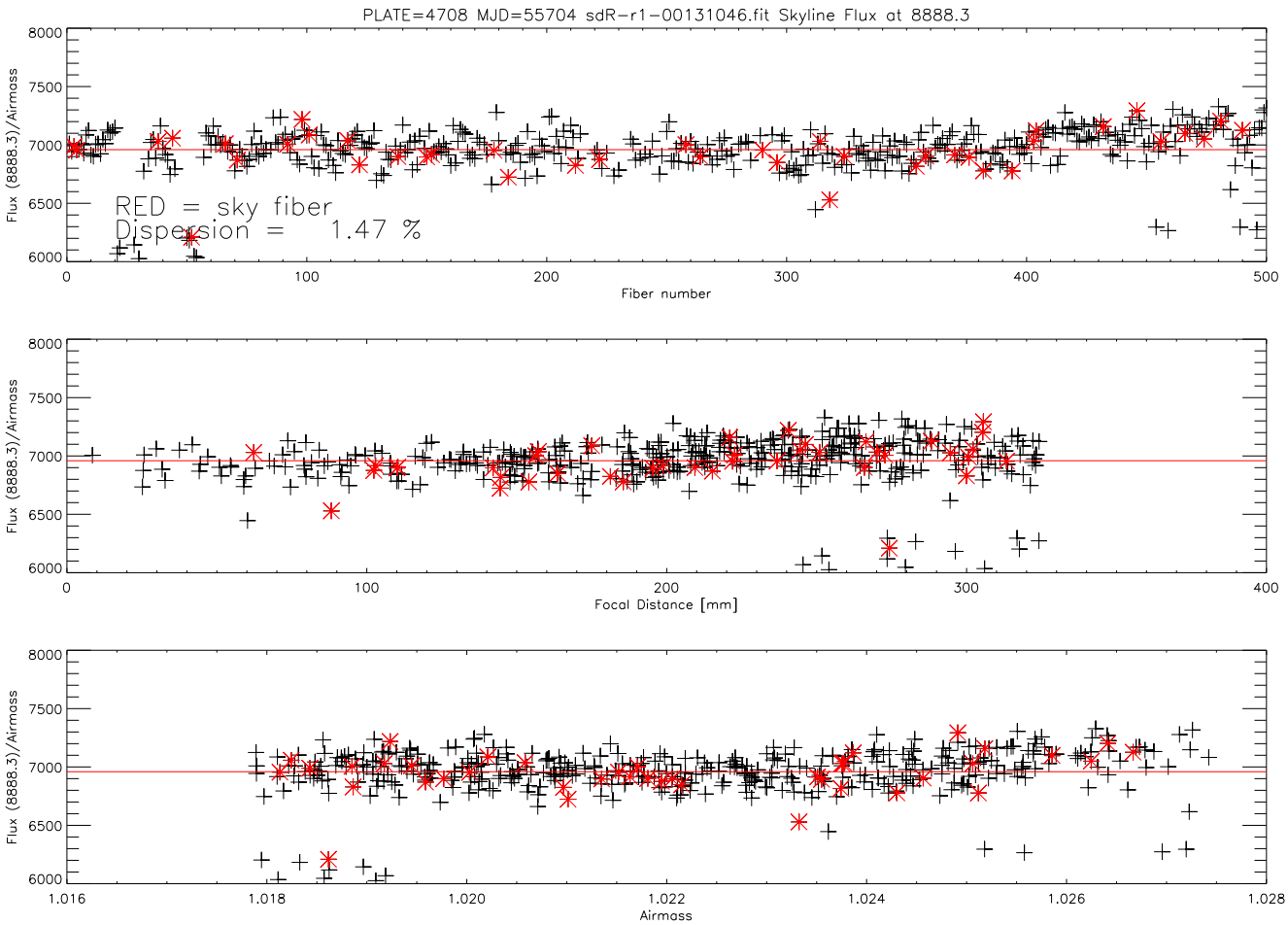

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

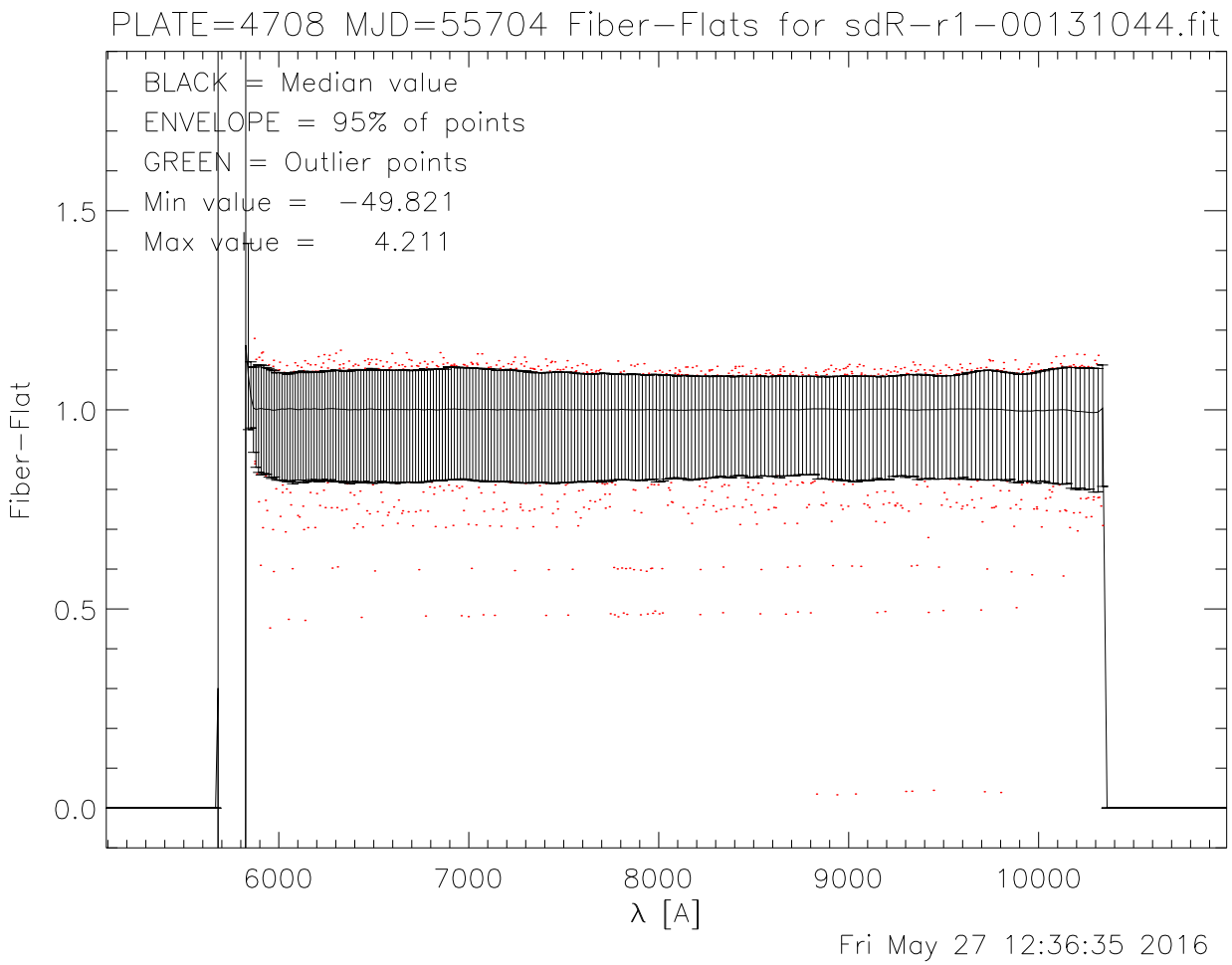

PLATE=4708 MJD=55704 sdR-r1-00131046.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

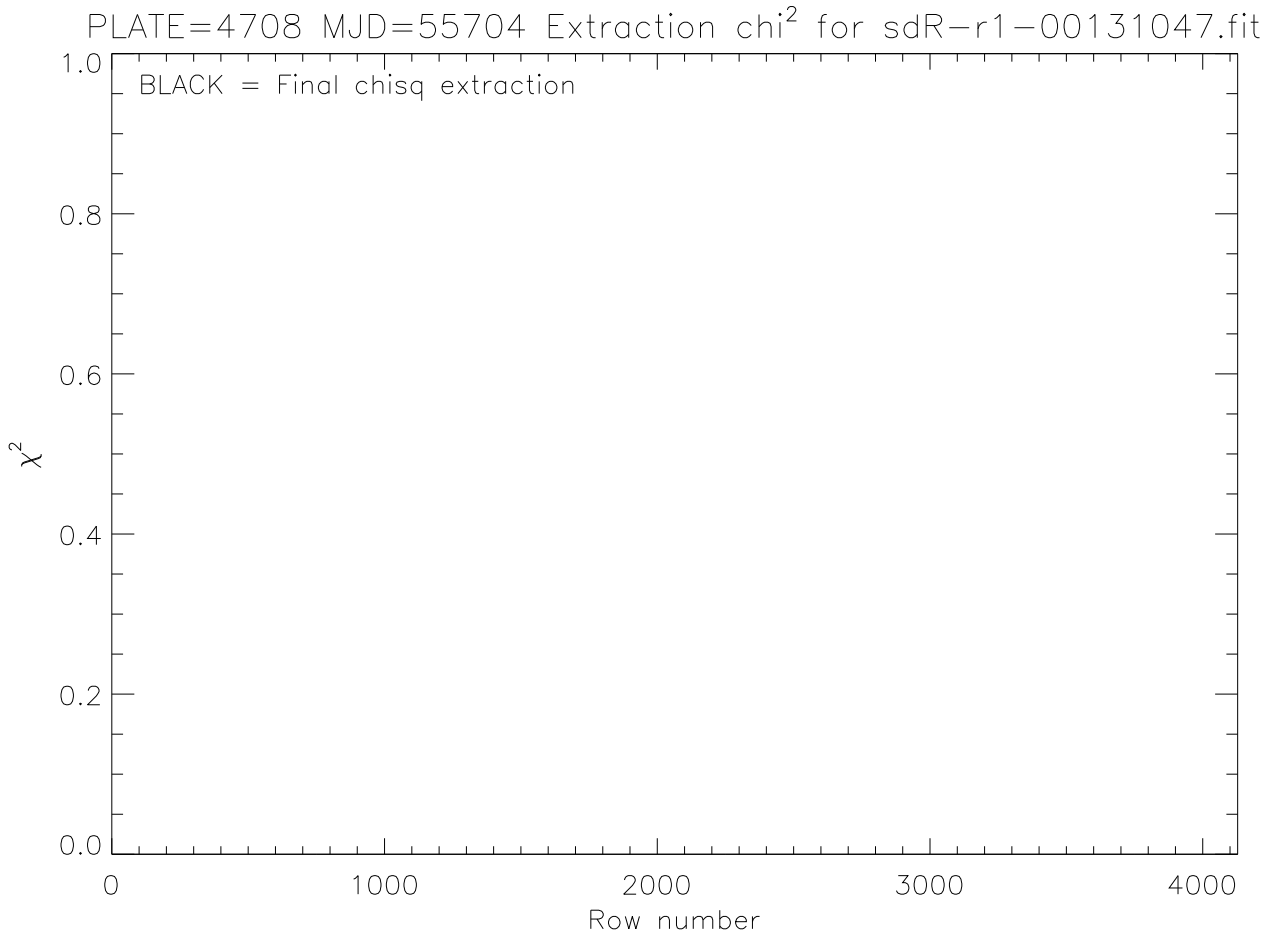
Number of sky fibers = 48

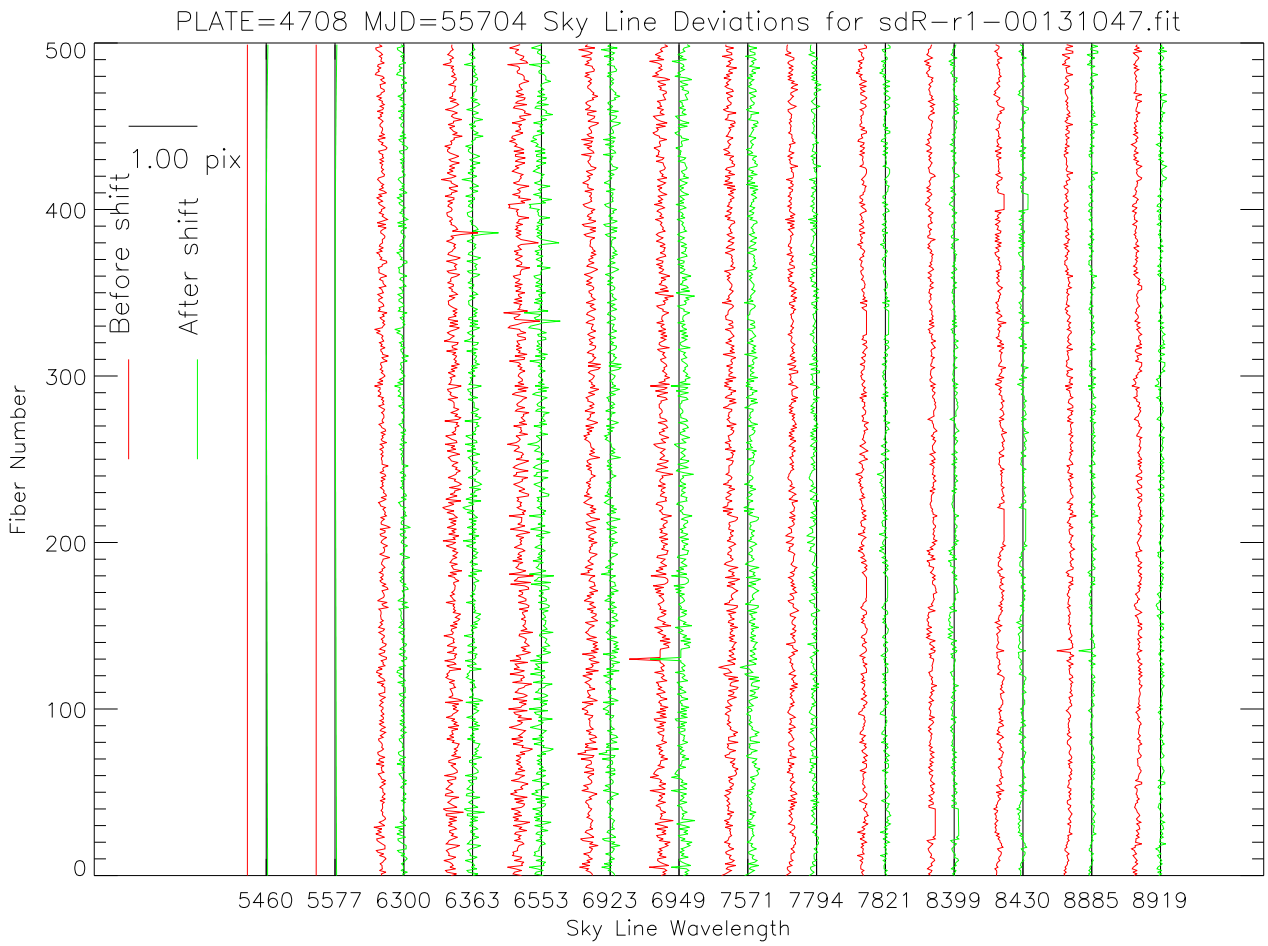


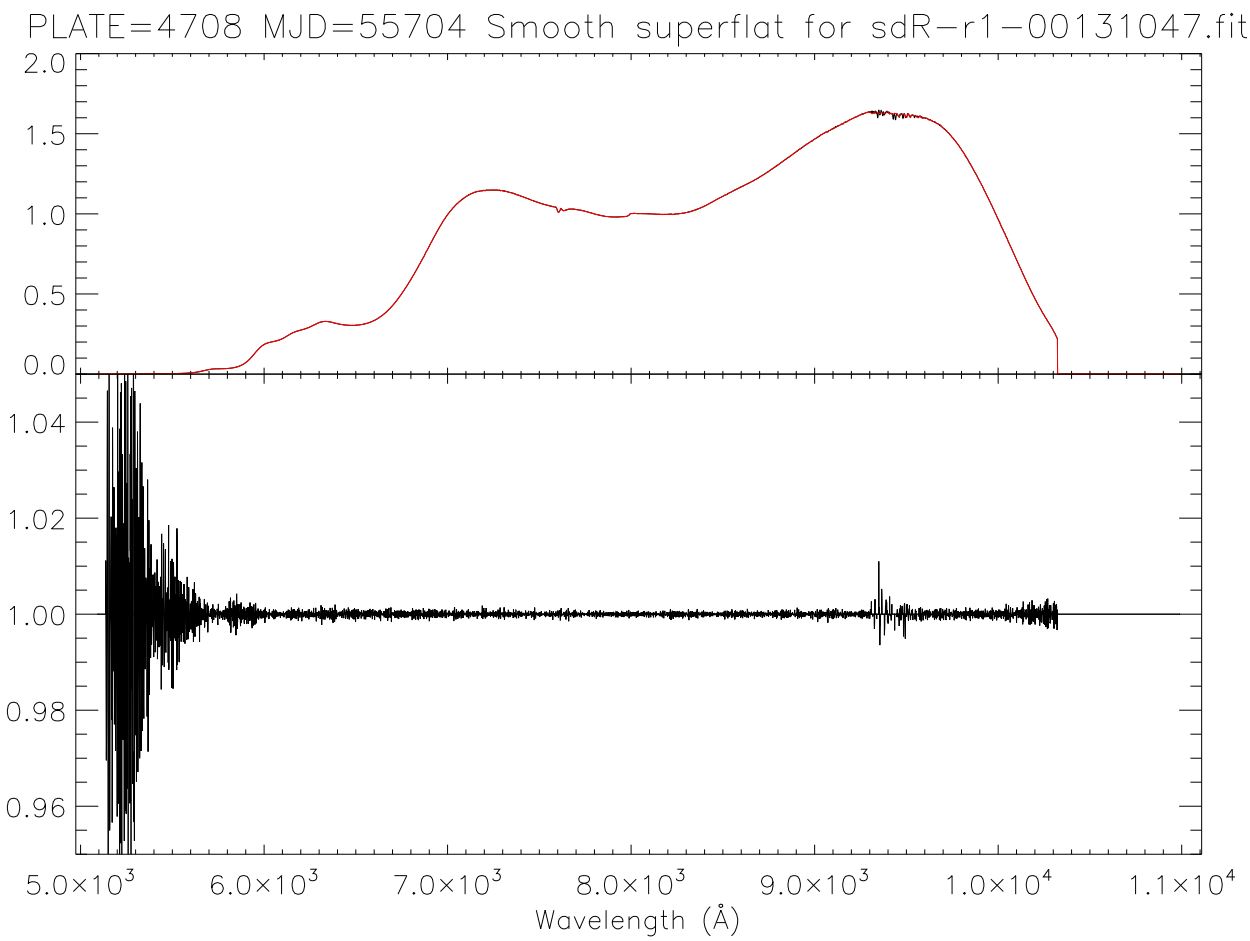

PLATE=4708 MJD=55704 sdR-r1-00131046.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

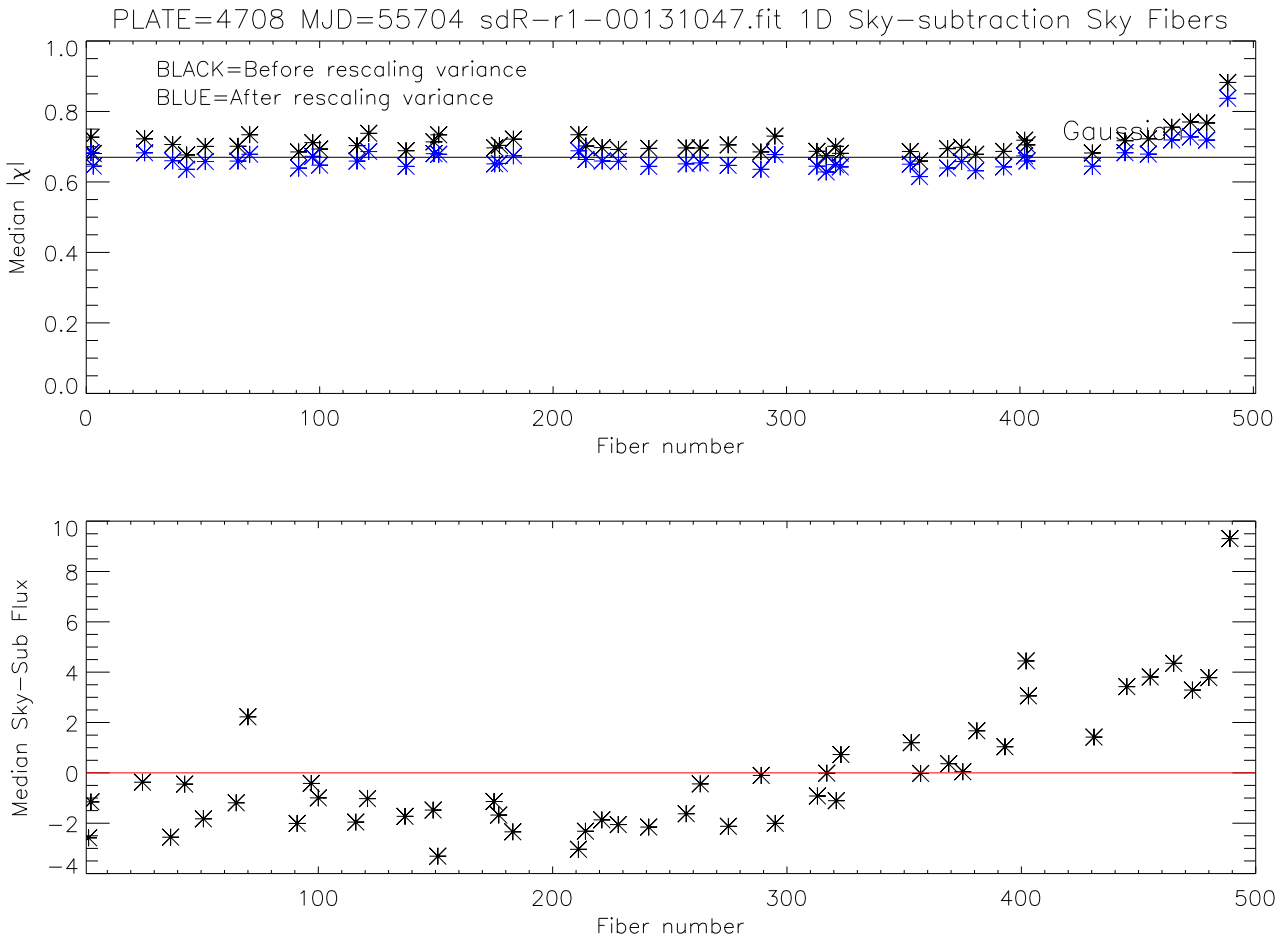

PLATE=4708 MJD=55704 sdR-r1-00131046.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.47 %
Fiber number
Focal Distance [mm]
Airmass

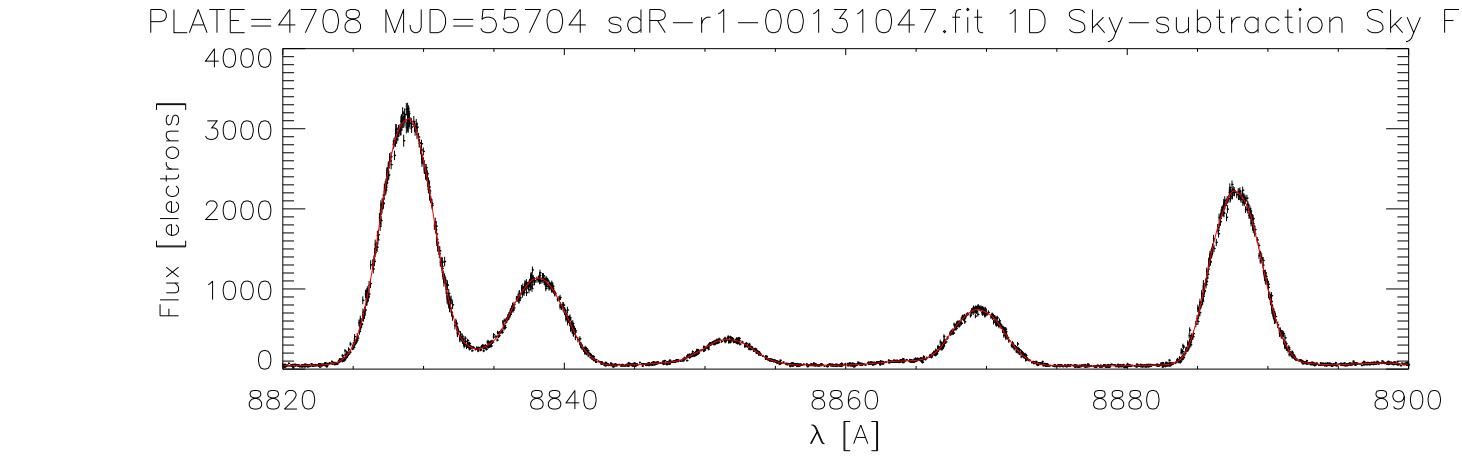

PLATE=4708 MJD=55704 Fiber−Flats for sdR−r1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −49.821
Max value = 4.211
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Fri May 27 12:36:35 2016

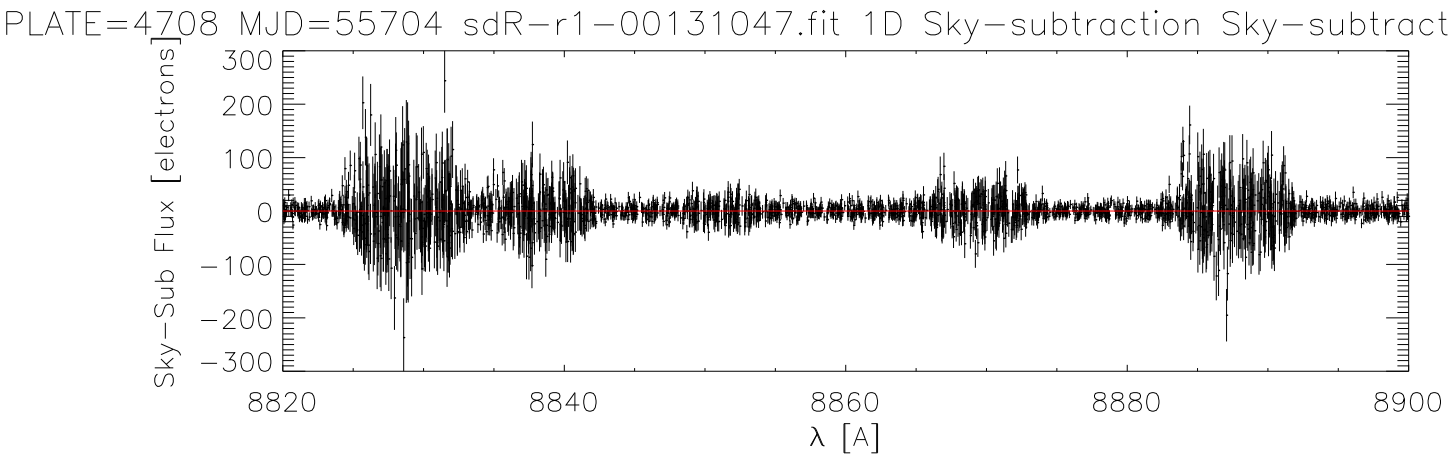

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r1−00131047.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r1-00131047.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

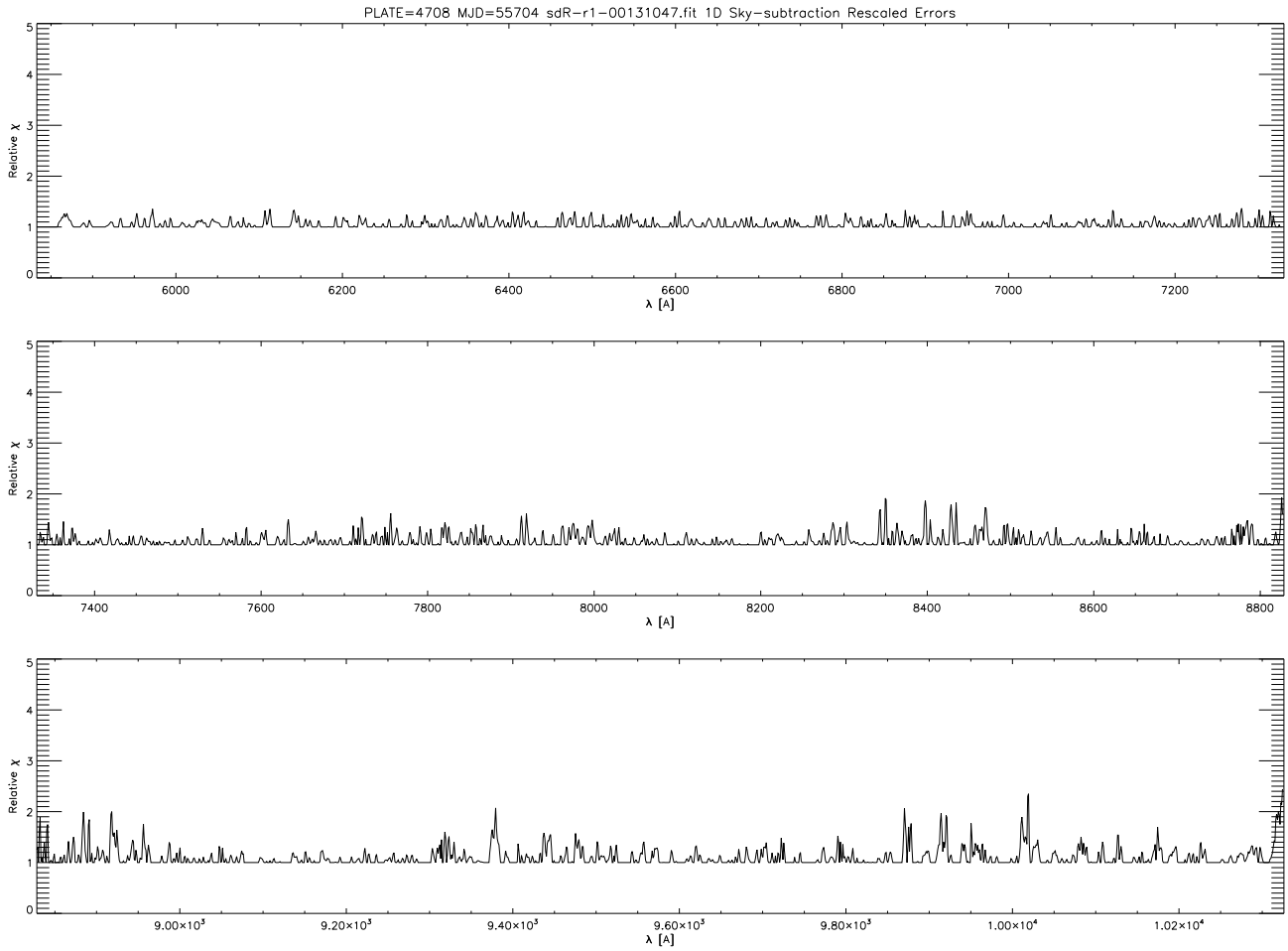

PLATE=4708 MJD=55704 Smooth superflat for sdR-r1-00131047.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

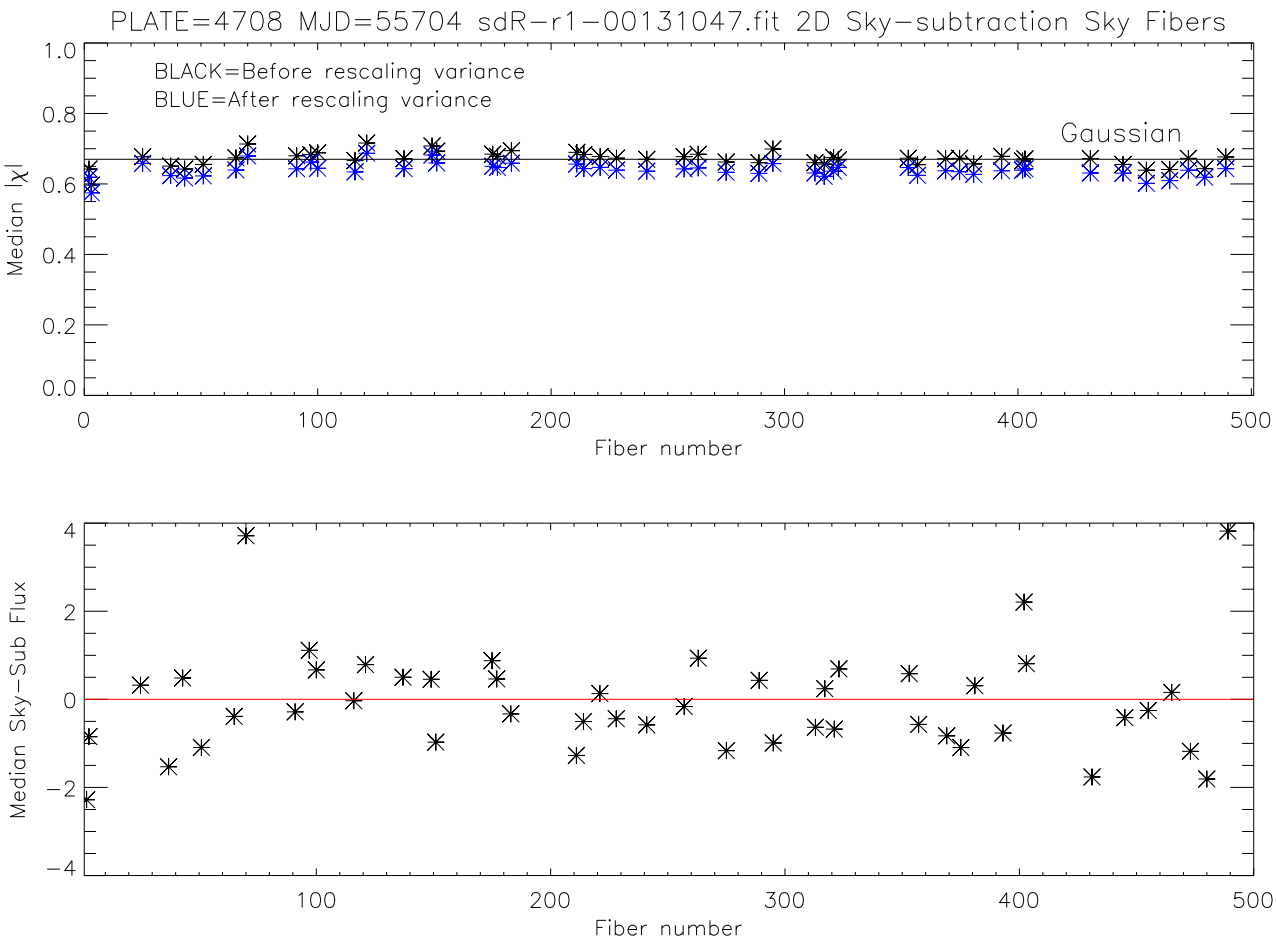

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

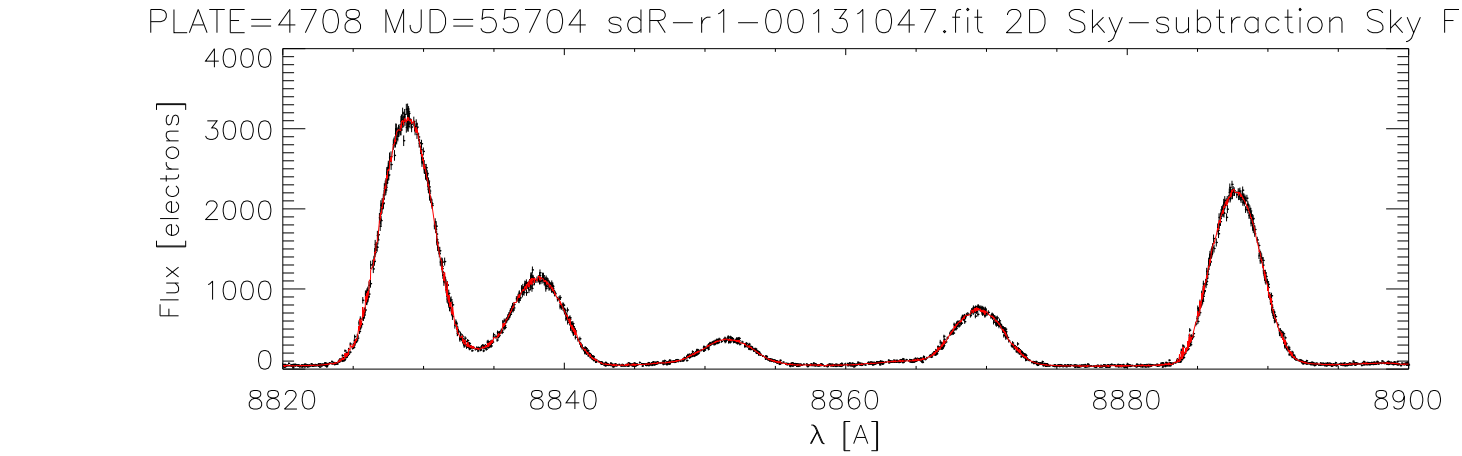

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

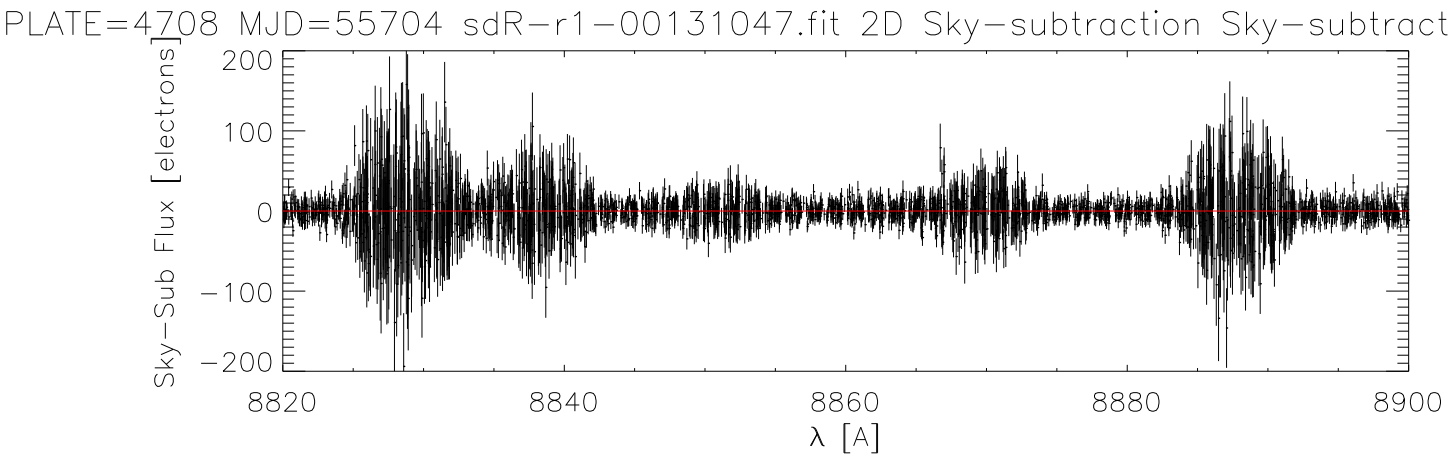

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

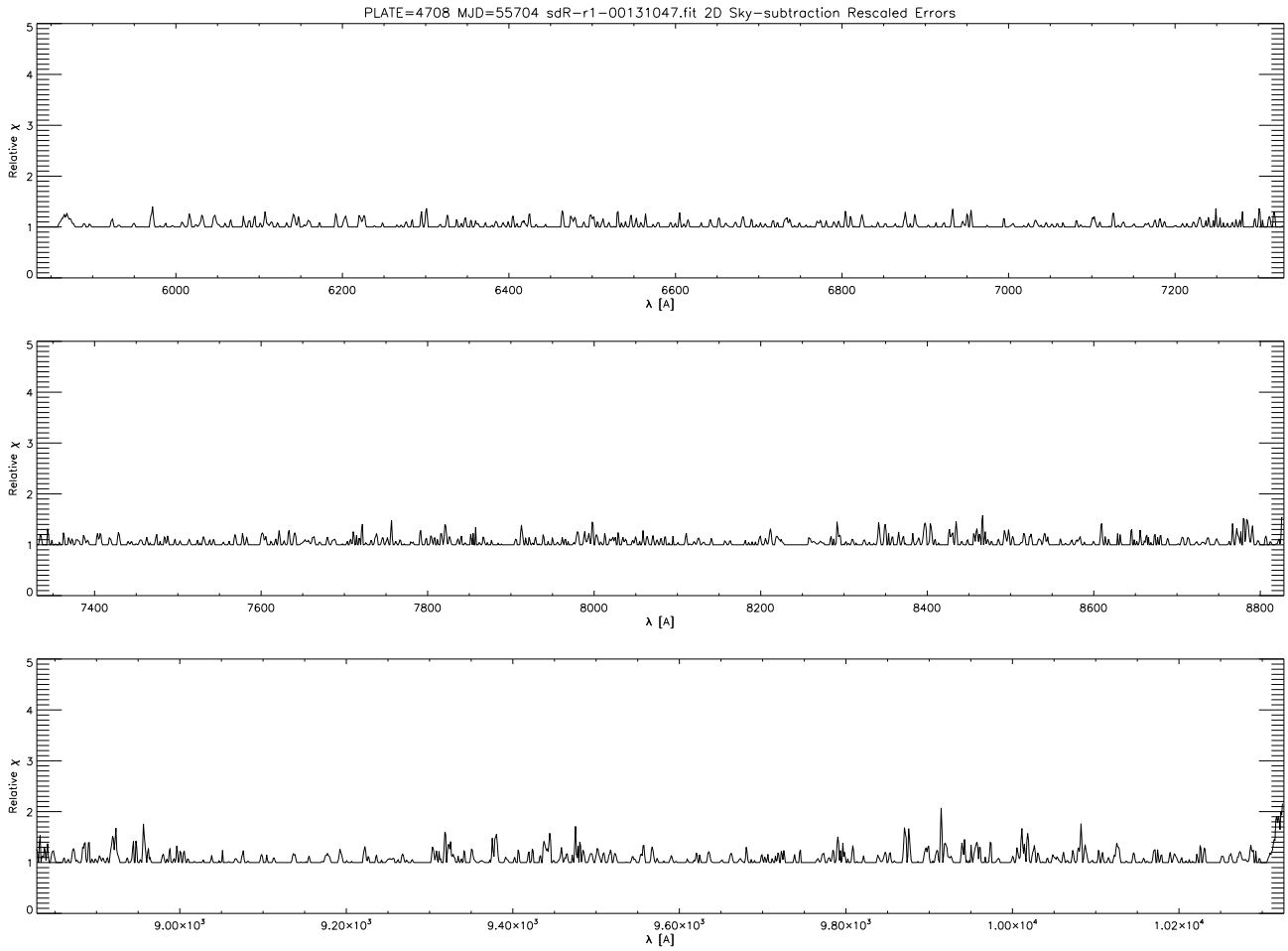


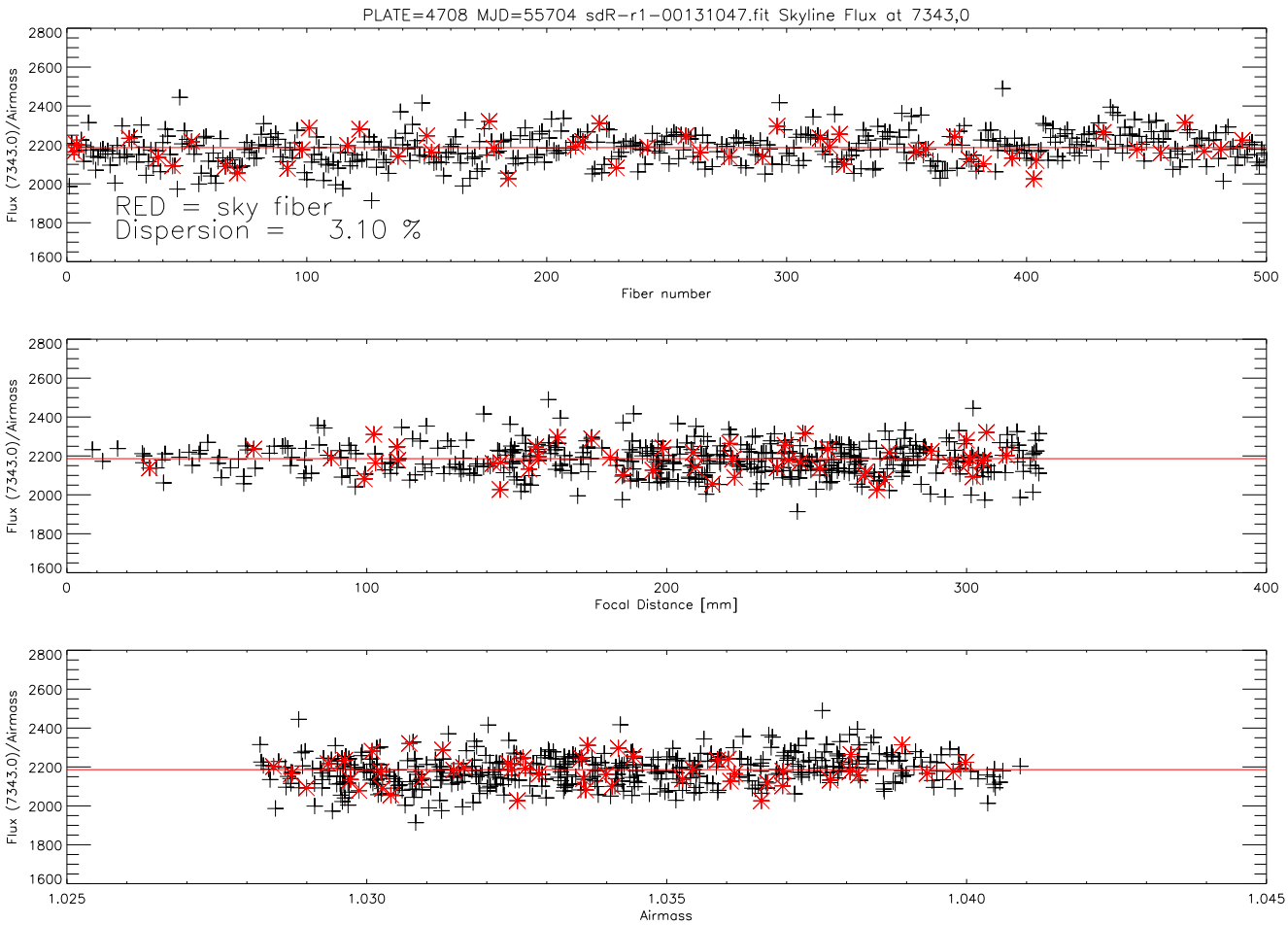

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

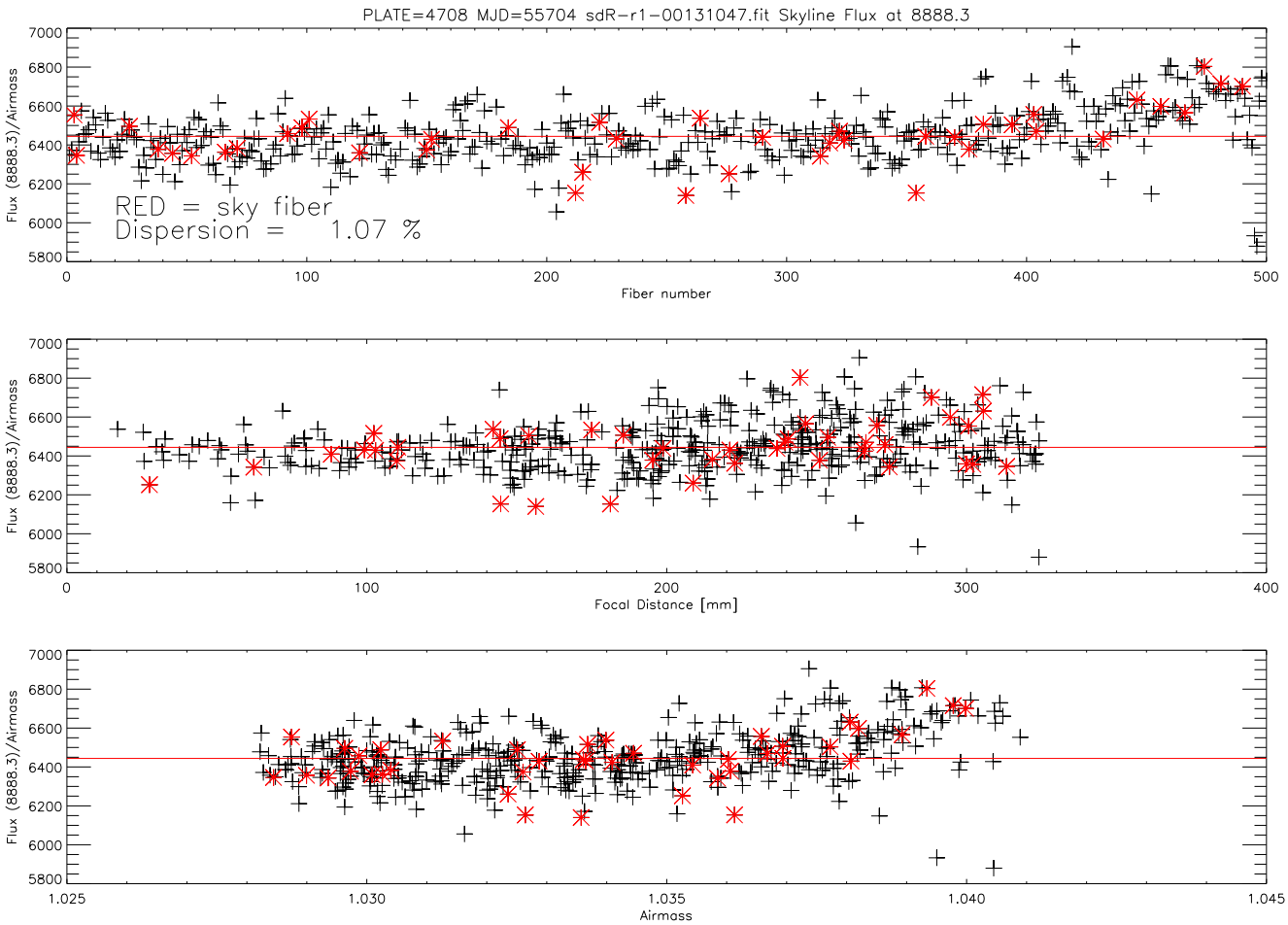

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

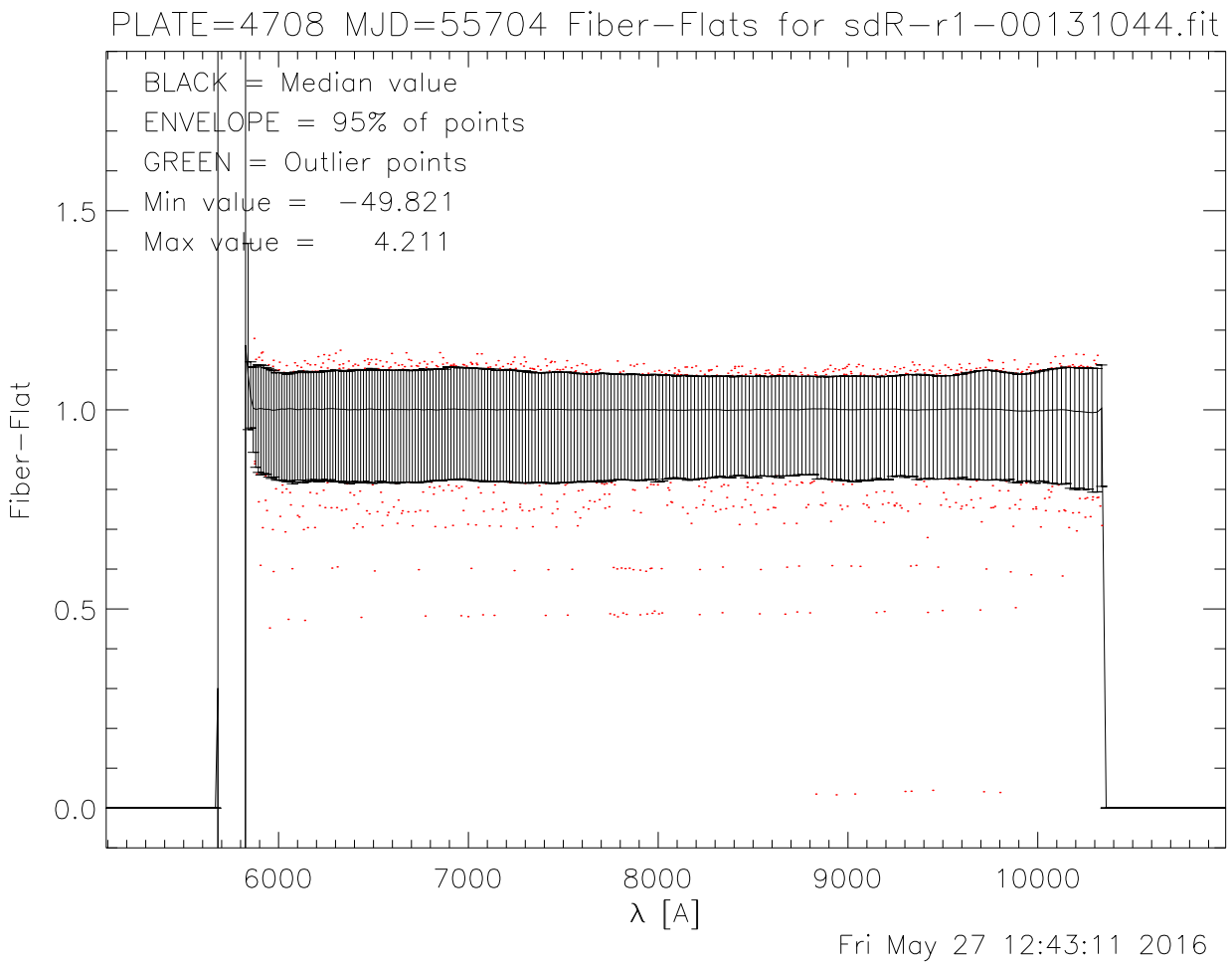

PLATE=4708 MJD=55704 sdR-r1-00131047.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

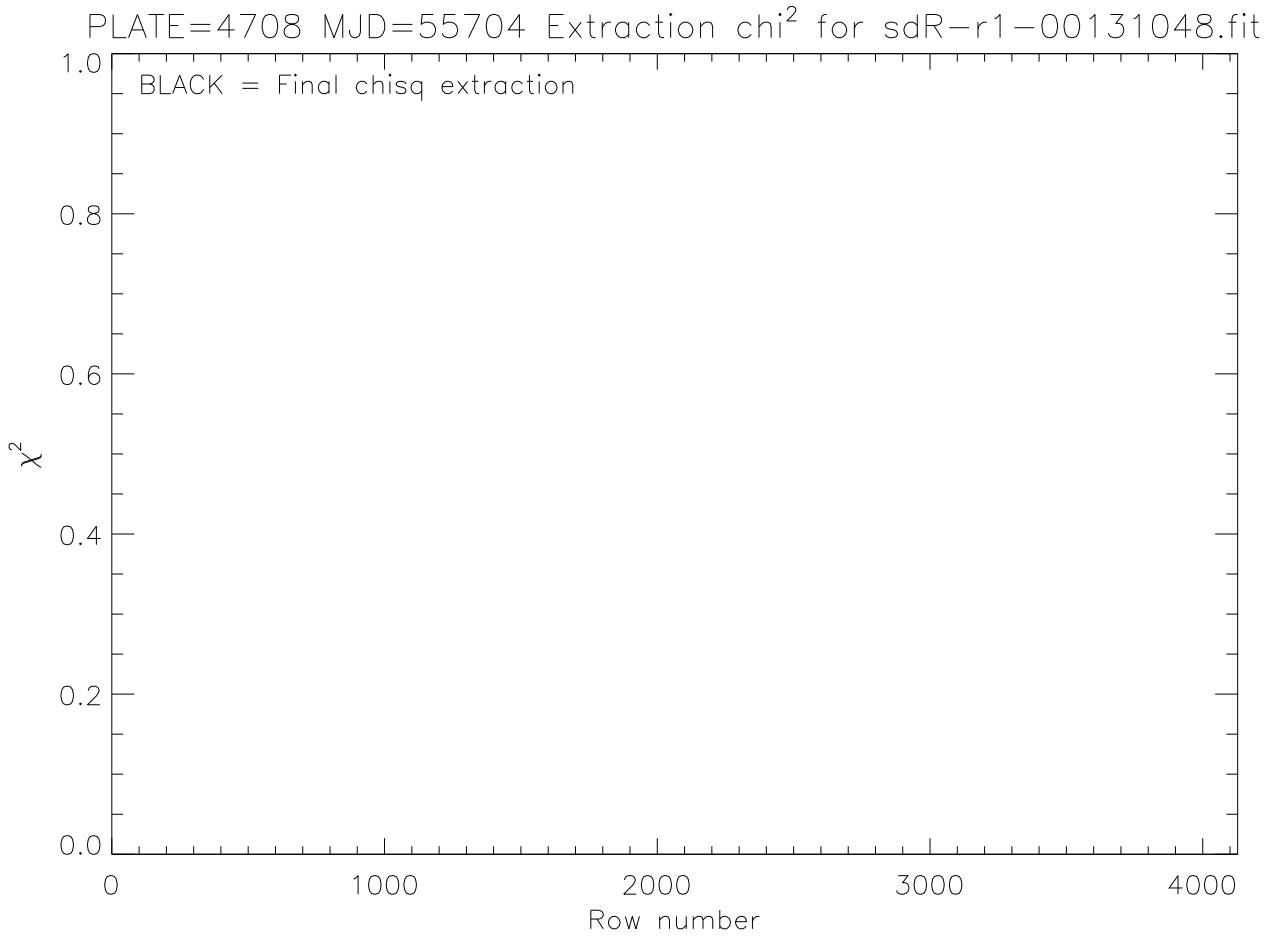
Number of sky fibers = 48

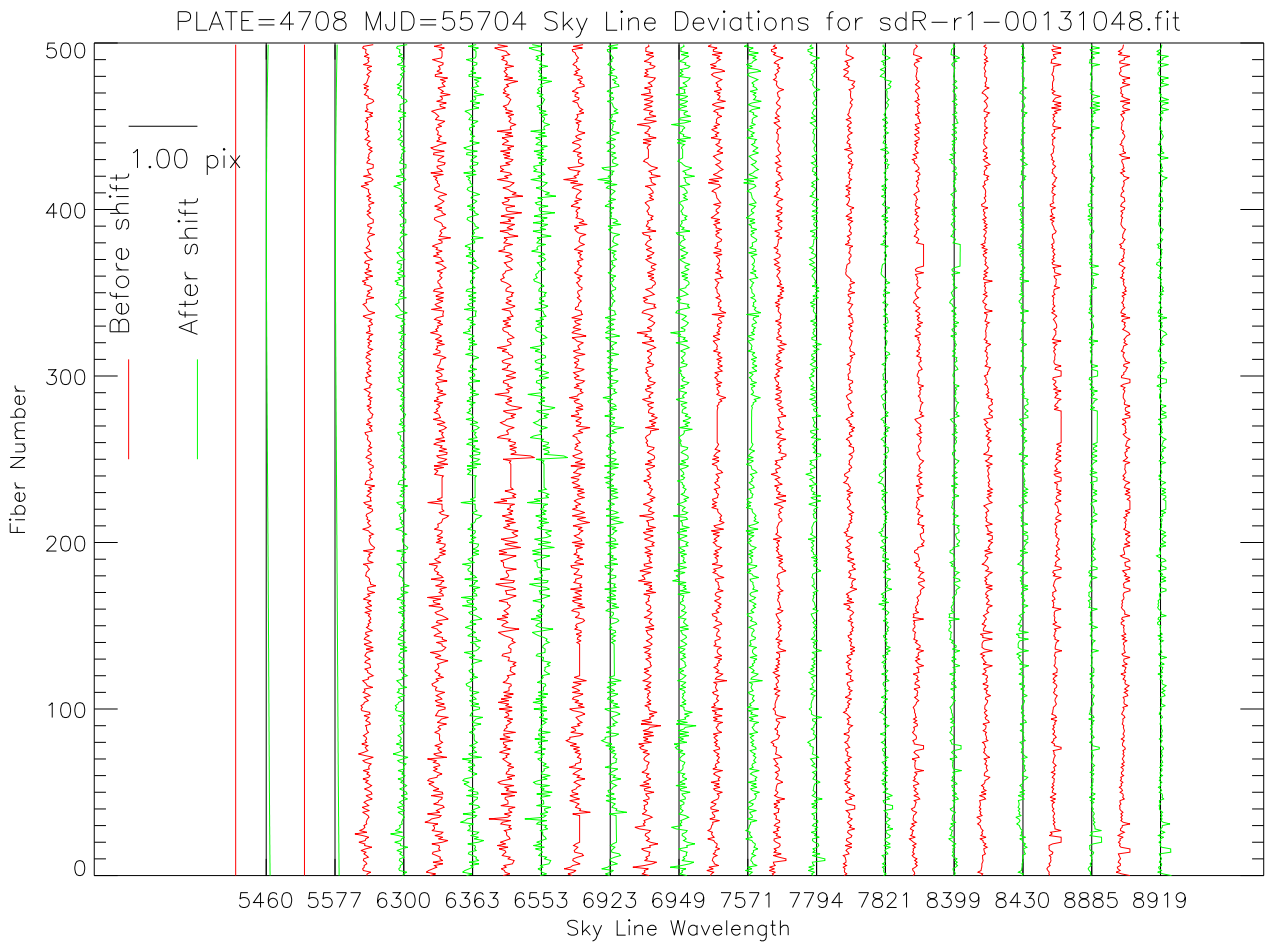


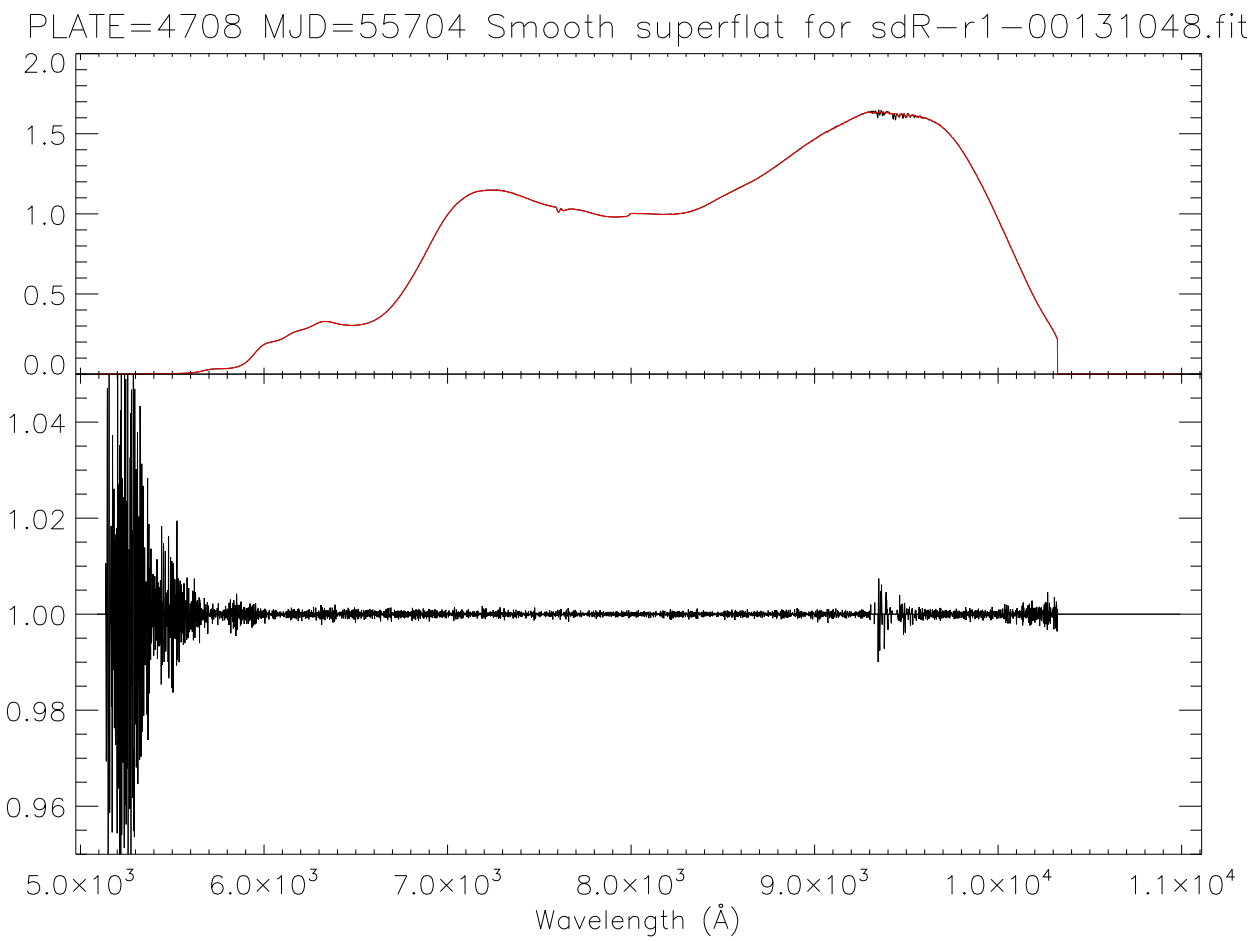

PLATE=4708 MJD=55704 sdR-r1-00131047.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.10 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

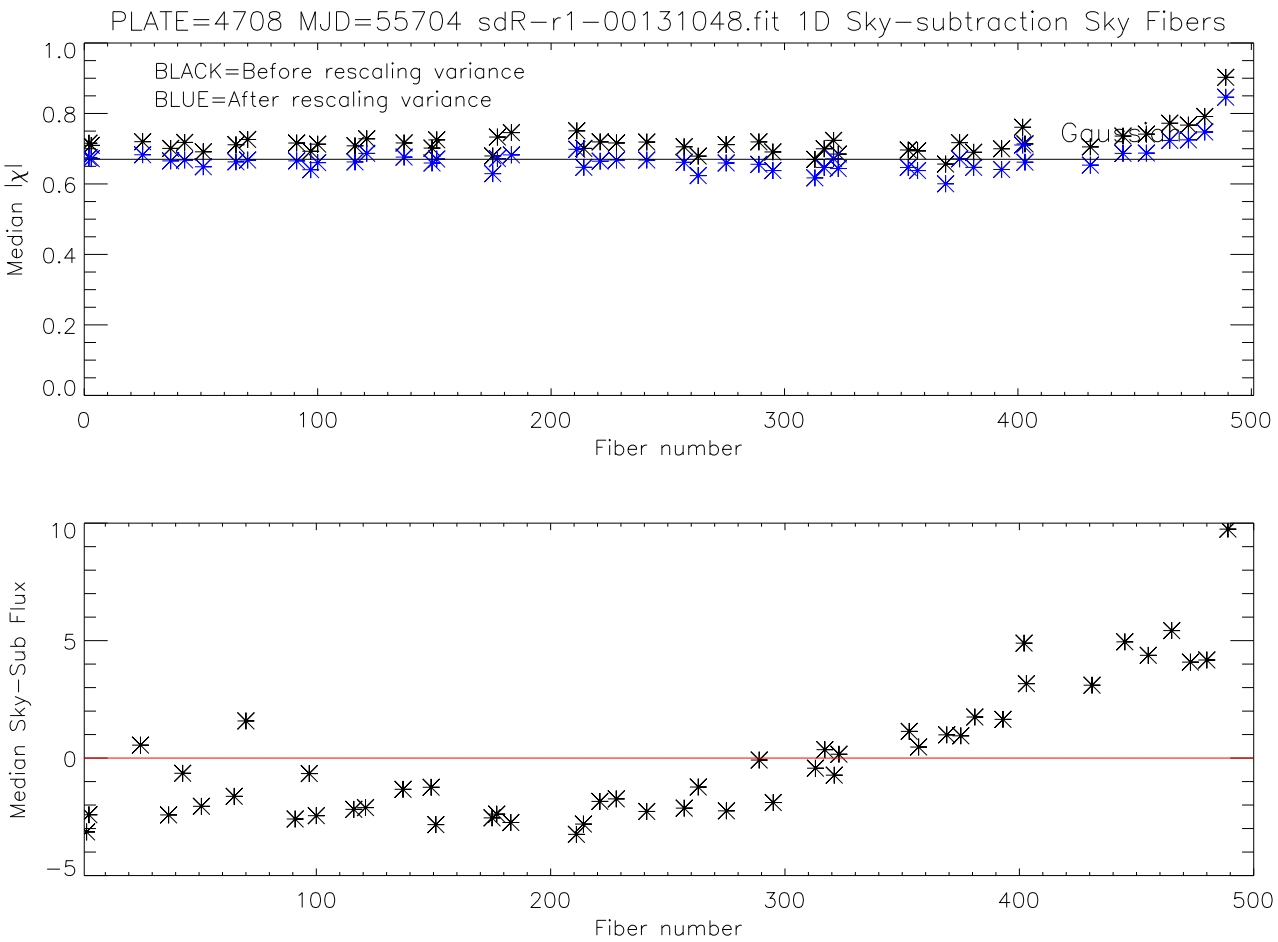

PLATE=4708 MJD=55704 sdR-r1-00131047.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.07 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=4708 MJD=55704 Fiber−Flats for sdR−r1−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −49.821
Max value = 4.211
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Fri May 27 12:43:11 2016

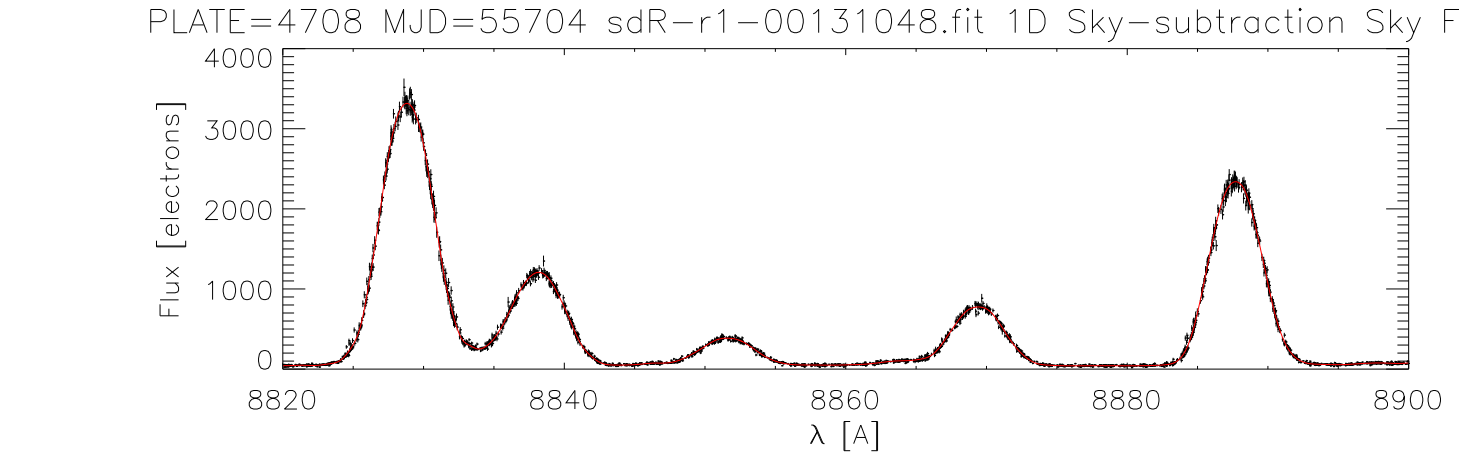

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r1−00131048.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

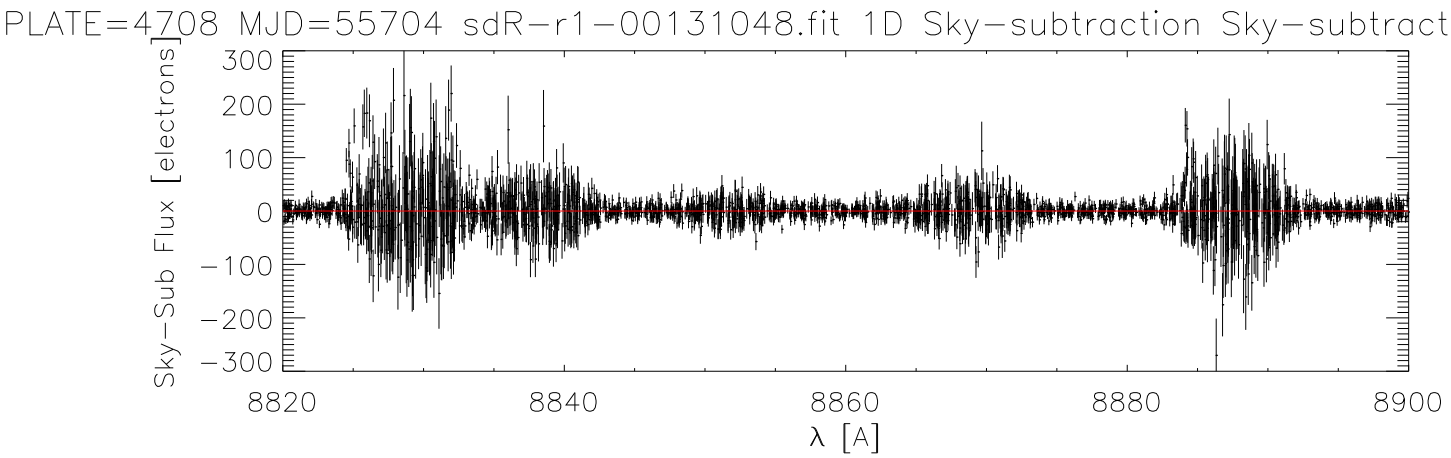

PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r1-00131048.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4708 MJD=55704 Smooth superflat for sdR-r1-00131048.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

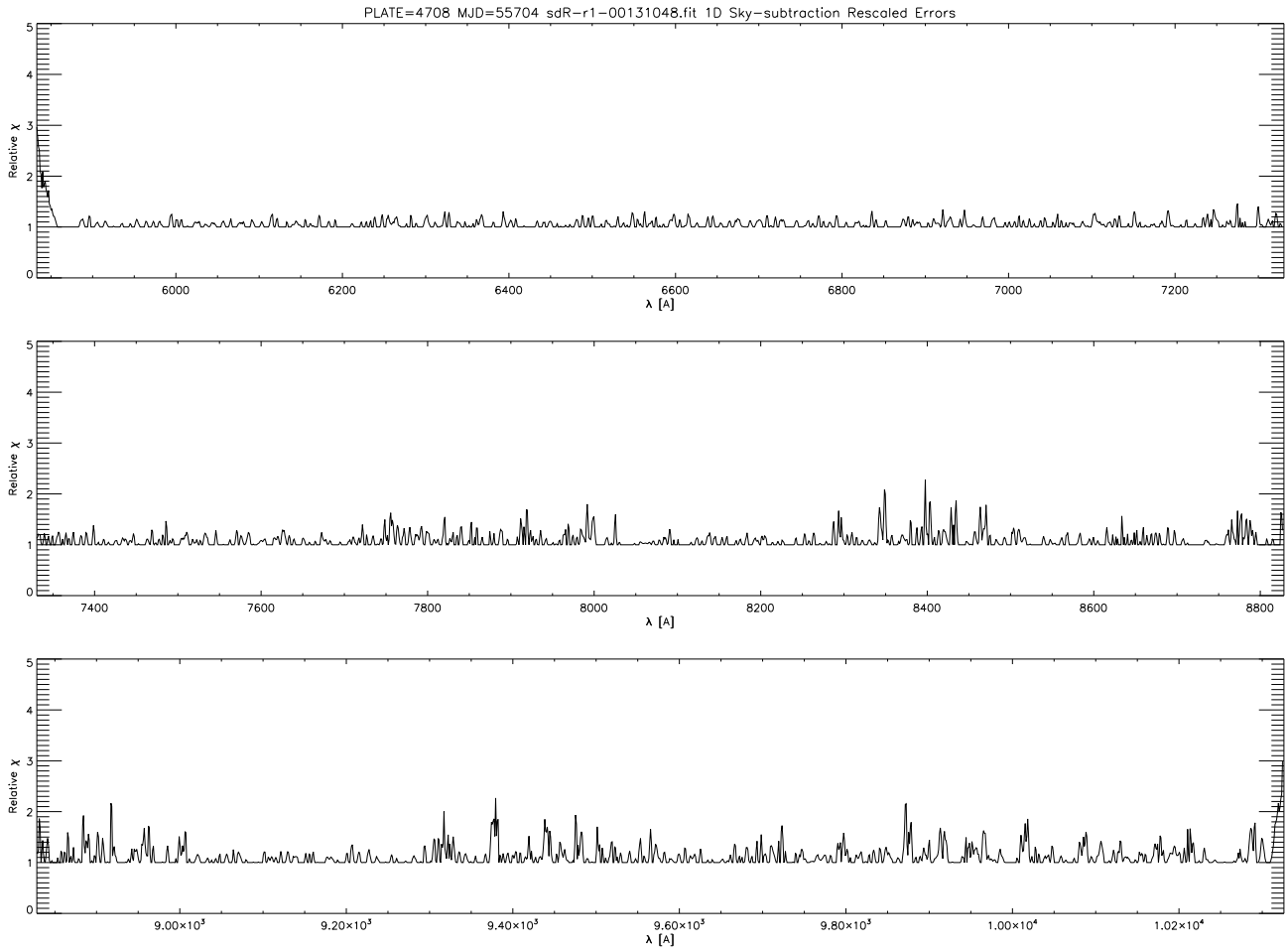

PLATE=4708 MJD=55704 sdR-r1-00131048.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number

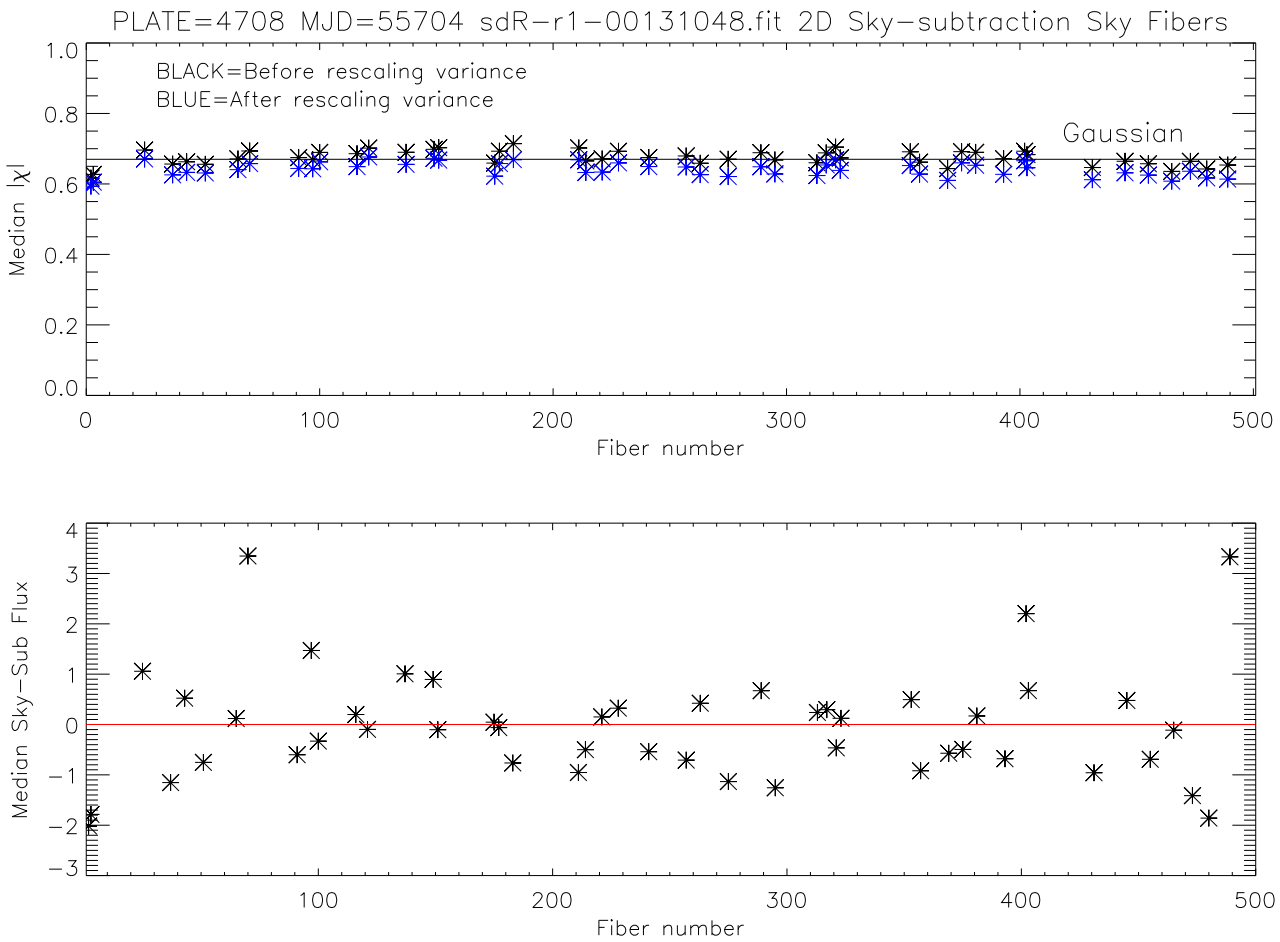
Median Sky-Sub Flux
Fiber number

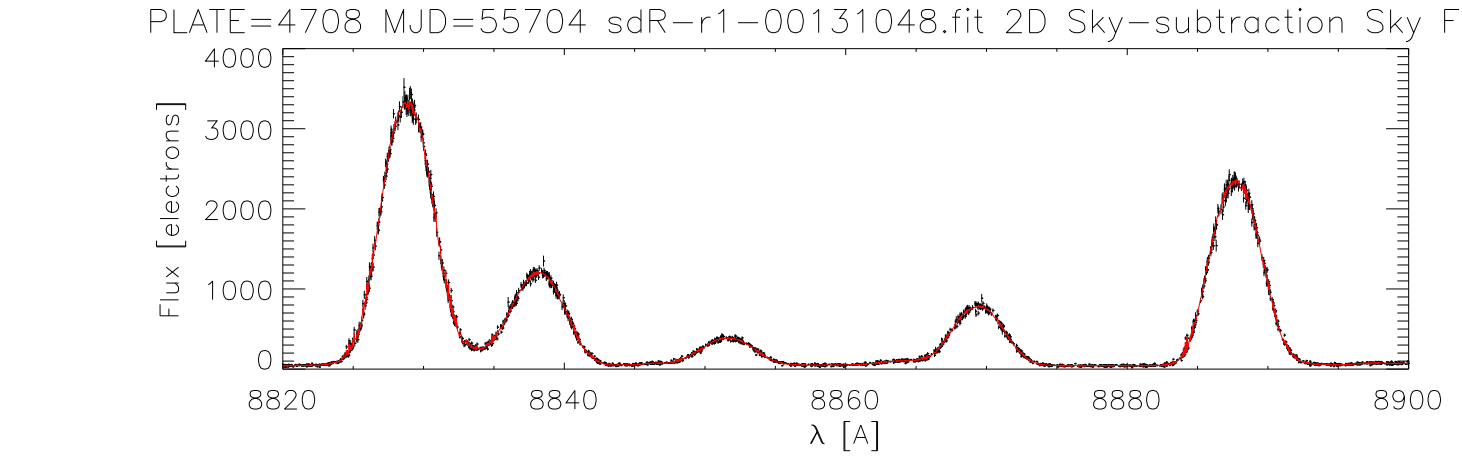

PLATE=4708 MJD=55704 sdR-r1-00131048.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

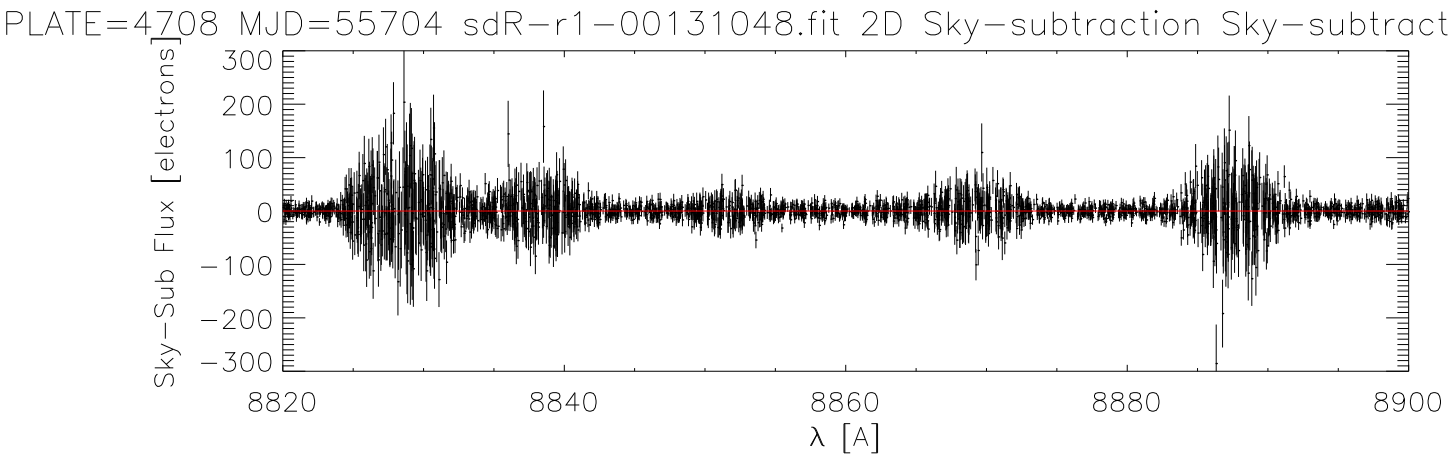

PLATE=4708 MJD=55704 sdR-r1-00131048.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

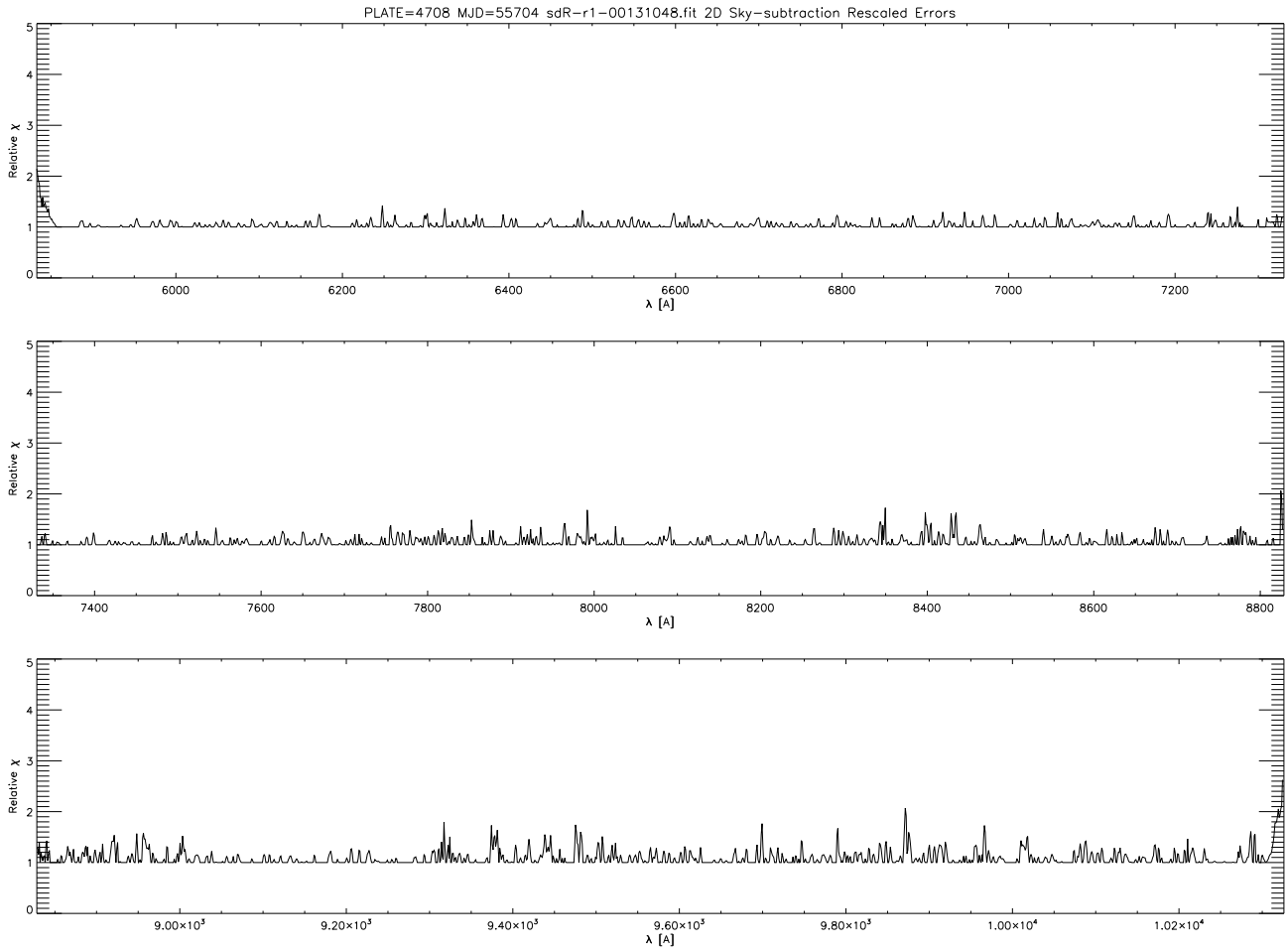


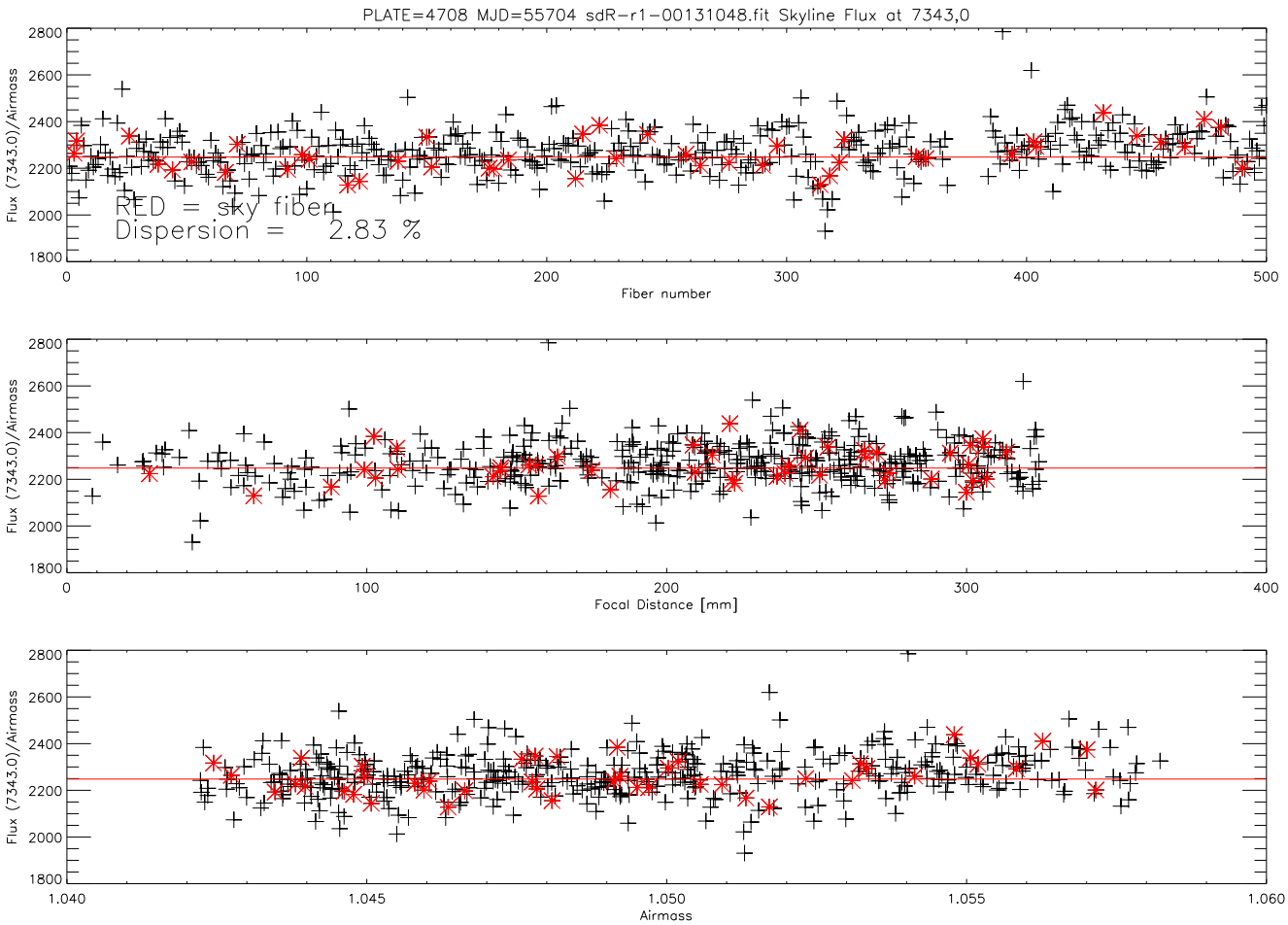

PLATE=4708 MJD=55704 sdR-r1-00131048.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

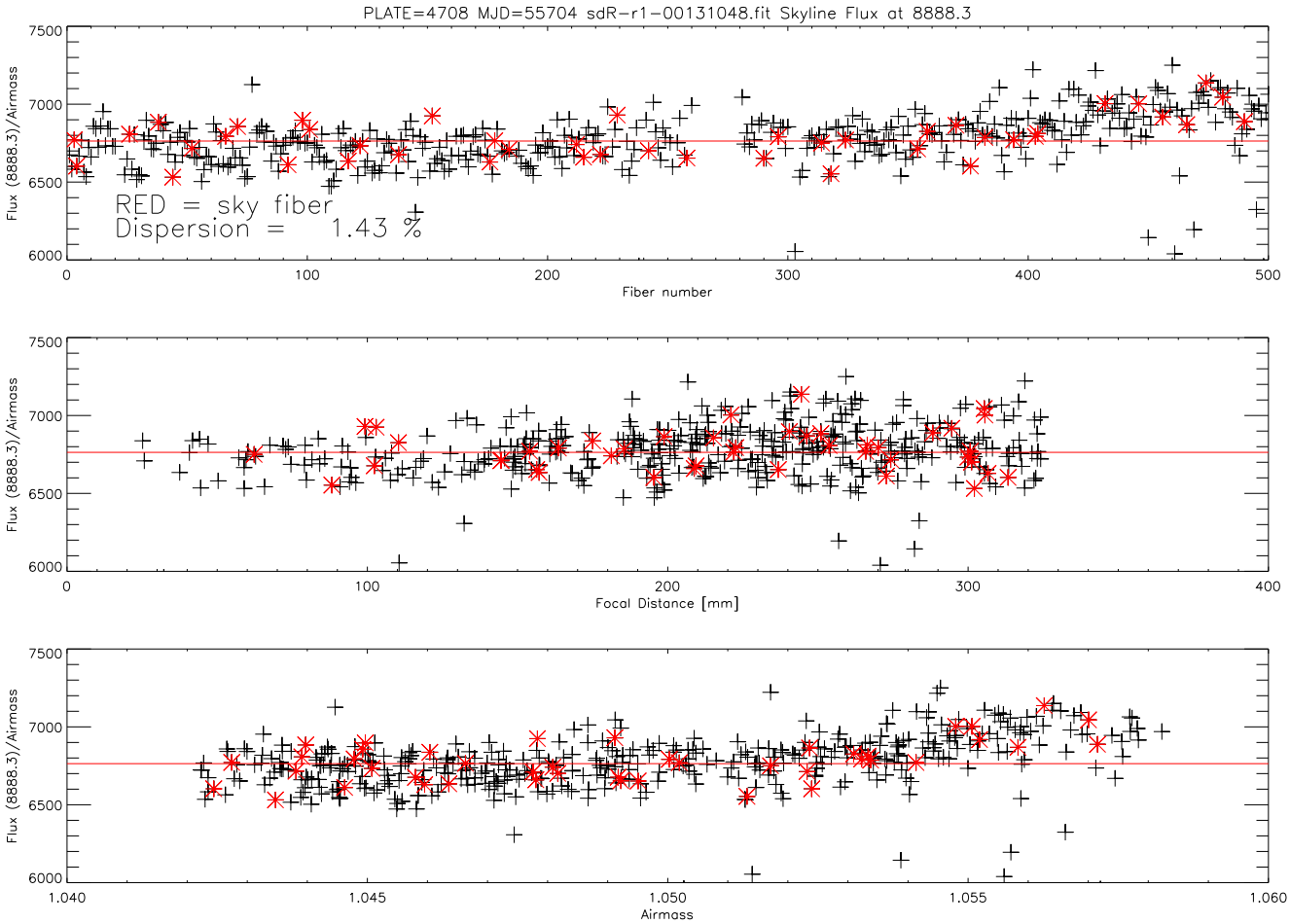

PLATE=4708 MJD=55704 sdR-r1-00131048.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4708 MJD=55704 sdR-r1-00131048.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

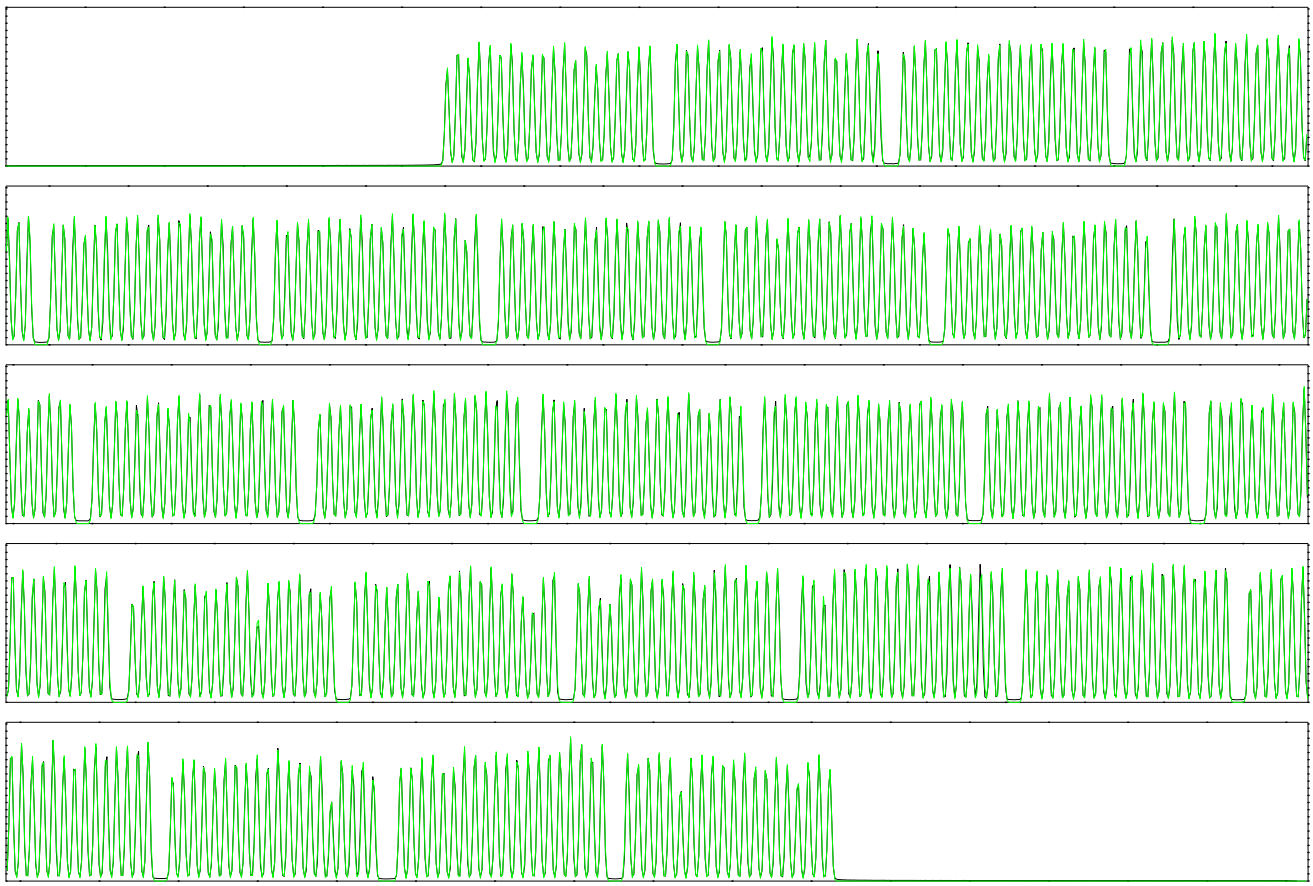
Number of sky fibers = 48

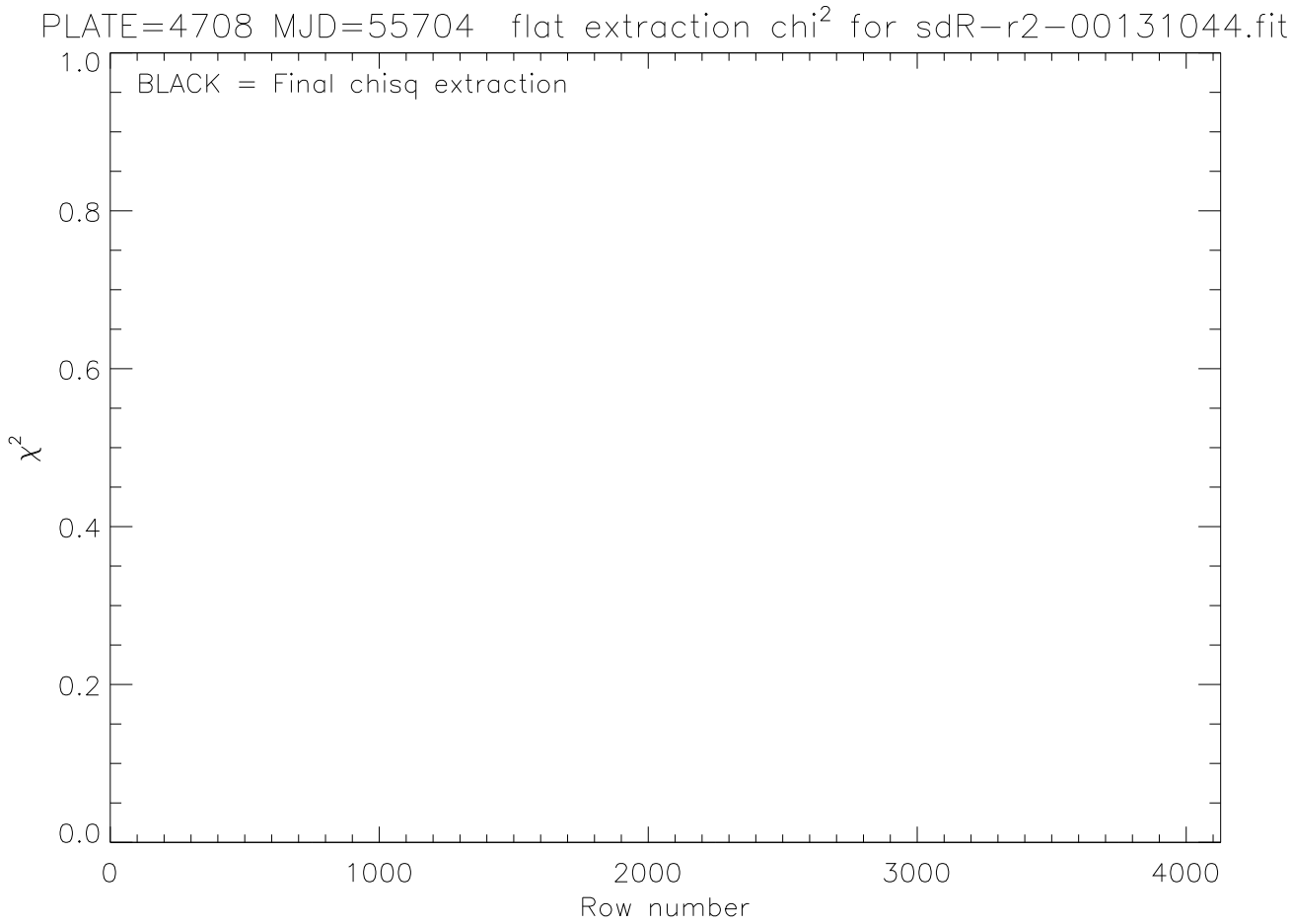


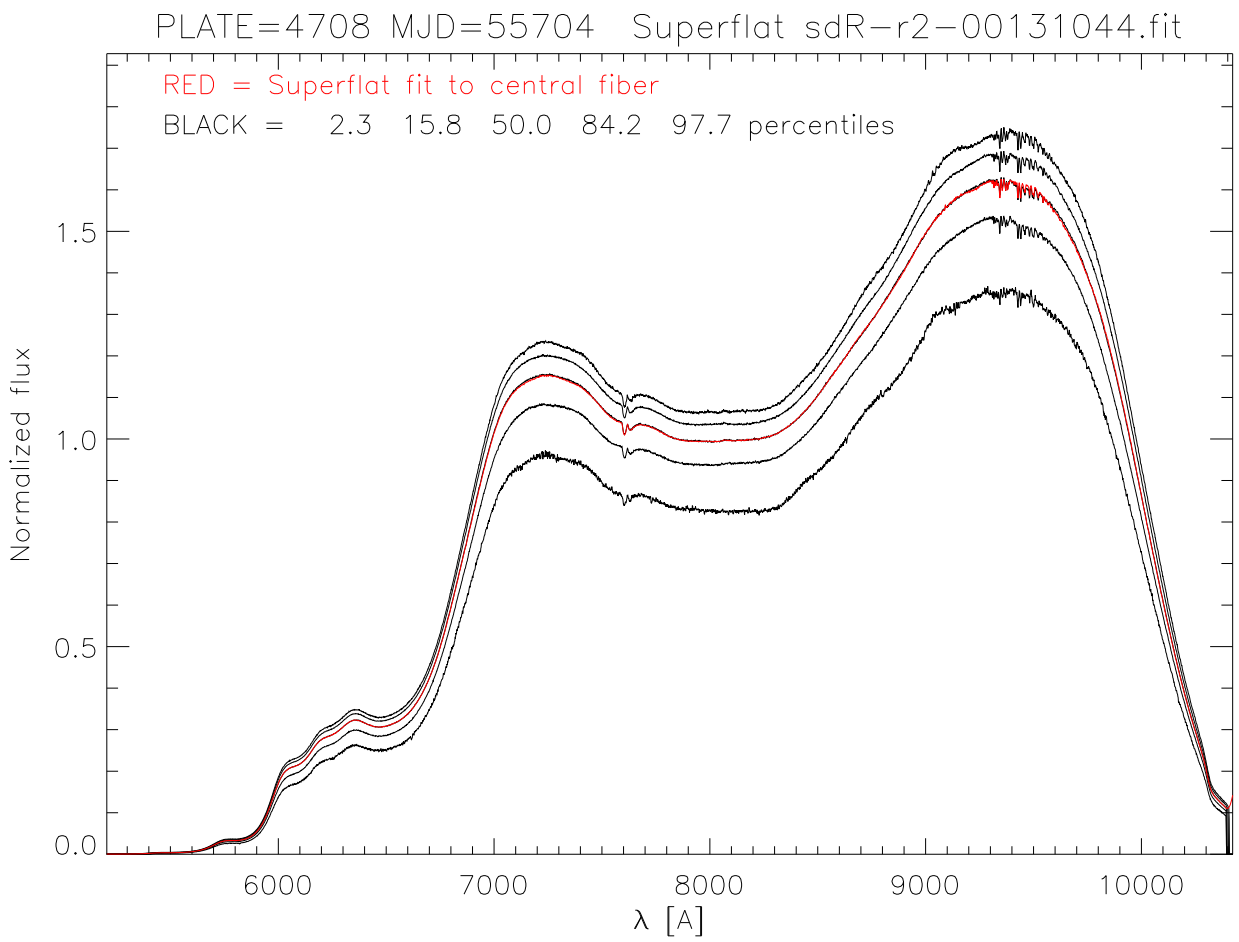

PLATE=4708 MJD=55704 sdR-r1-00131048.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

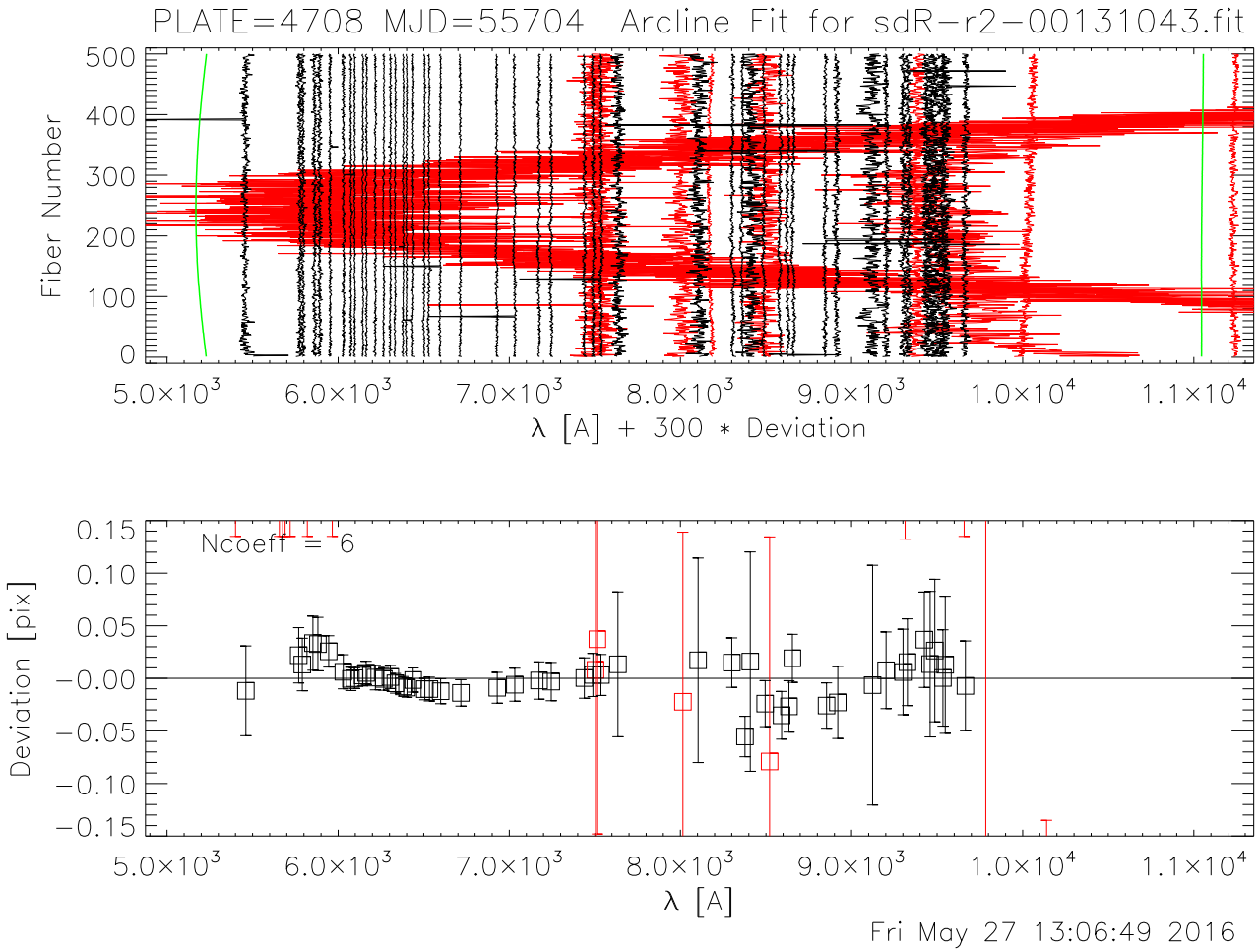

PLATE=4708 MJD=55704 sdR-r1-00131048.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.43 %
Fiber number
Focal Distance [mm]
Airmass

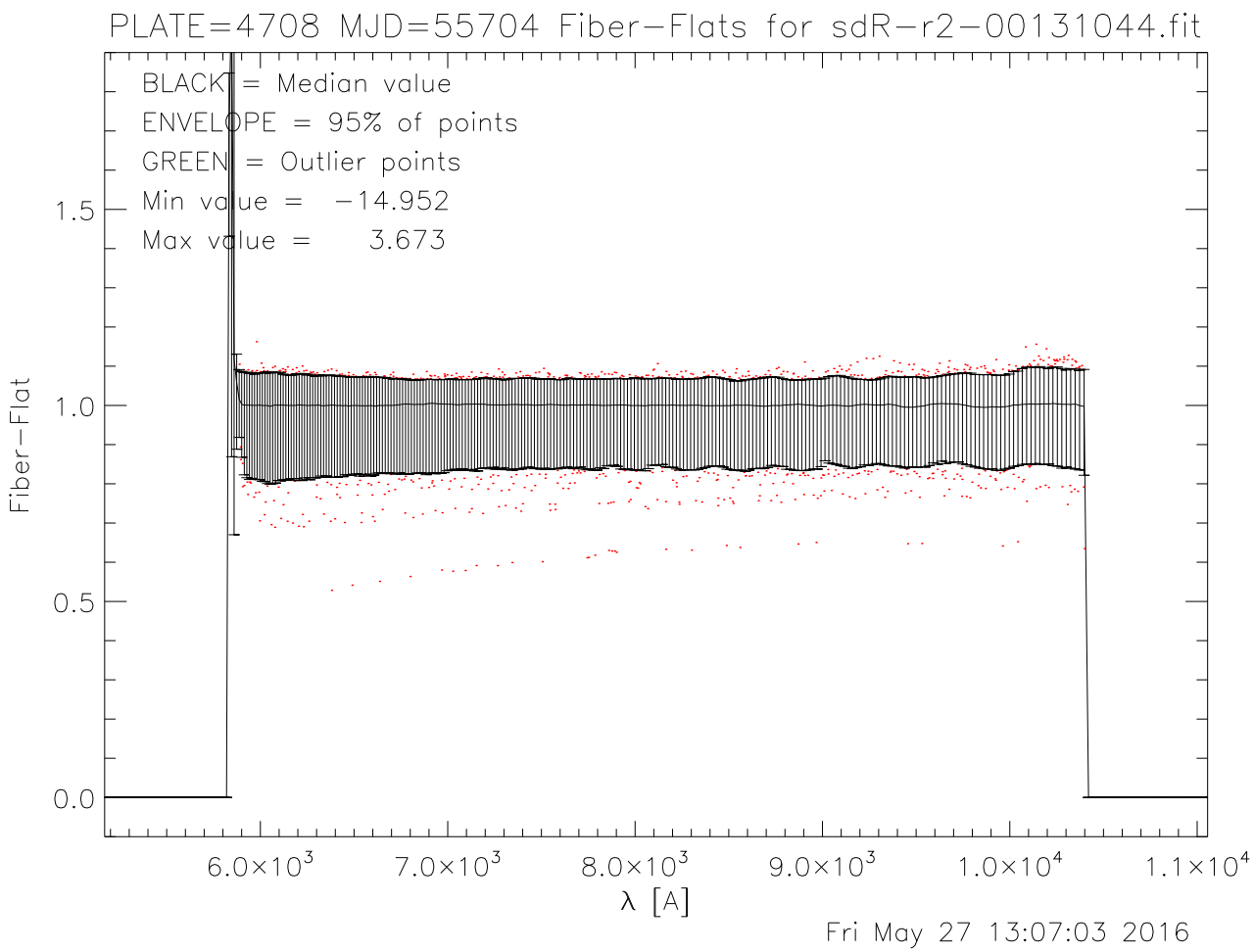
PLATE=4708 MJD=55704 Traces sdR-r2-00131044.fit

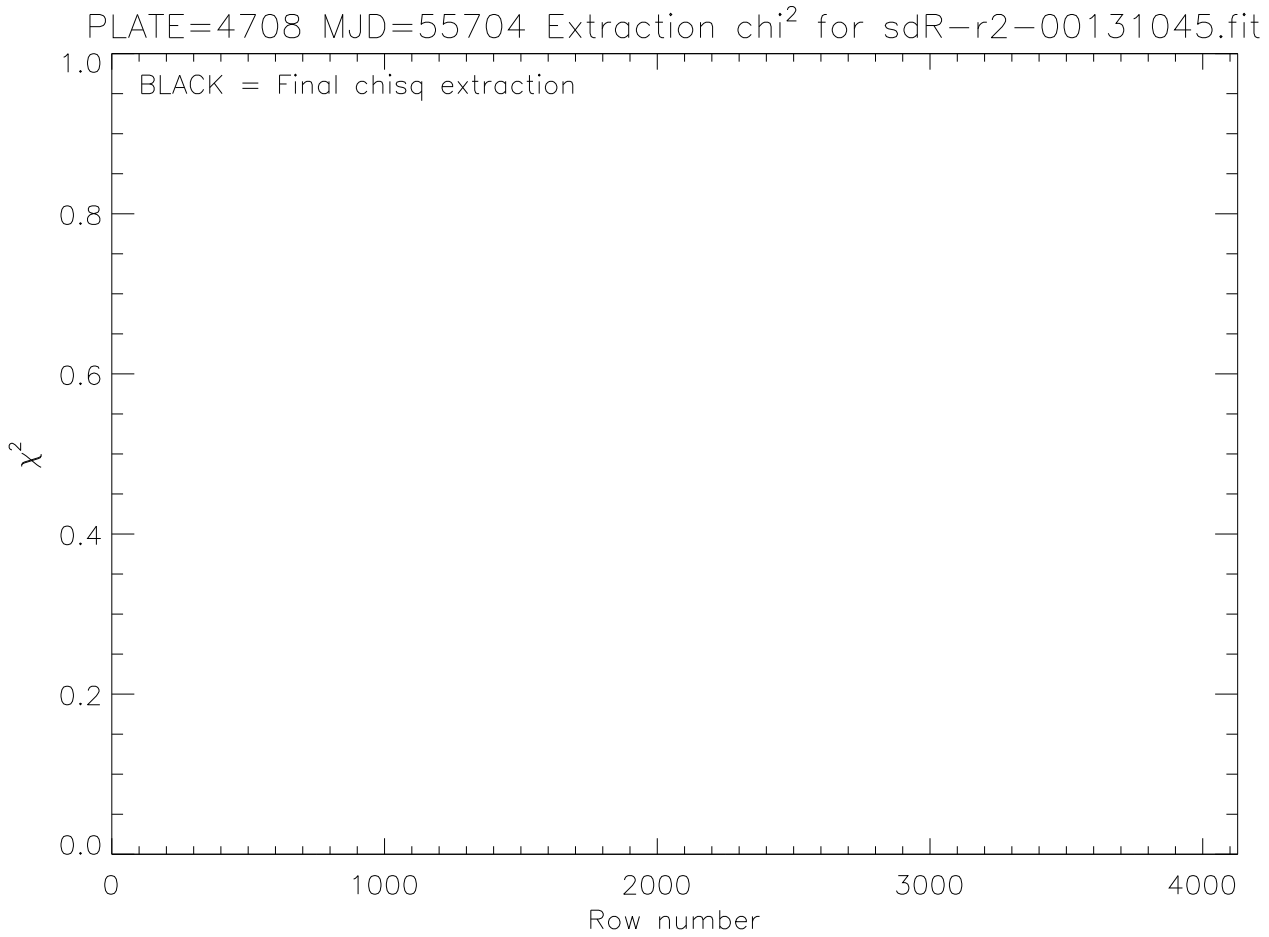


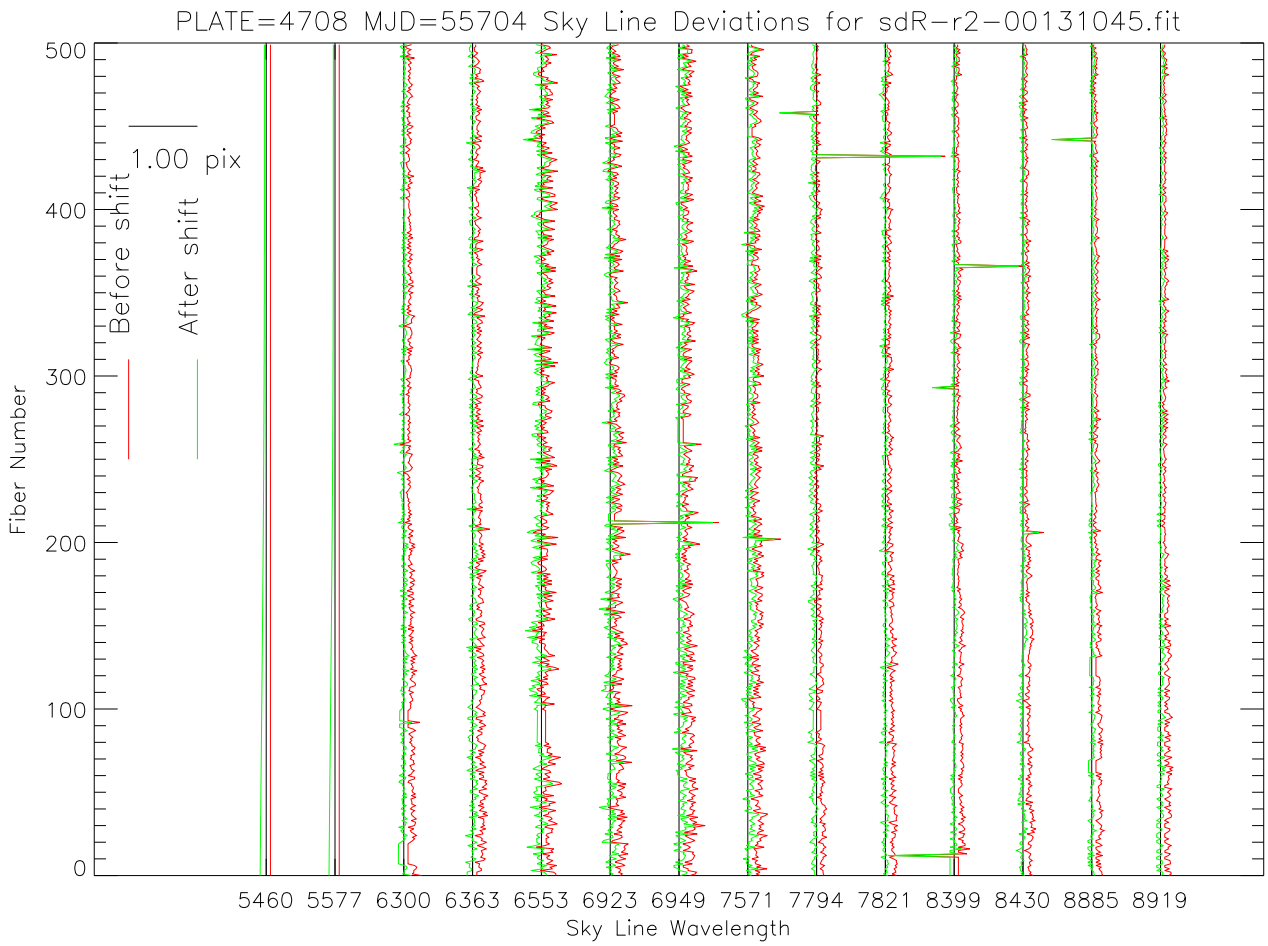

PLATE=4708 MJD=55704 flat extraction chi^2 for sdR-r2-00131044.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

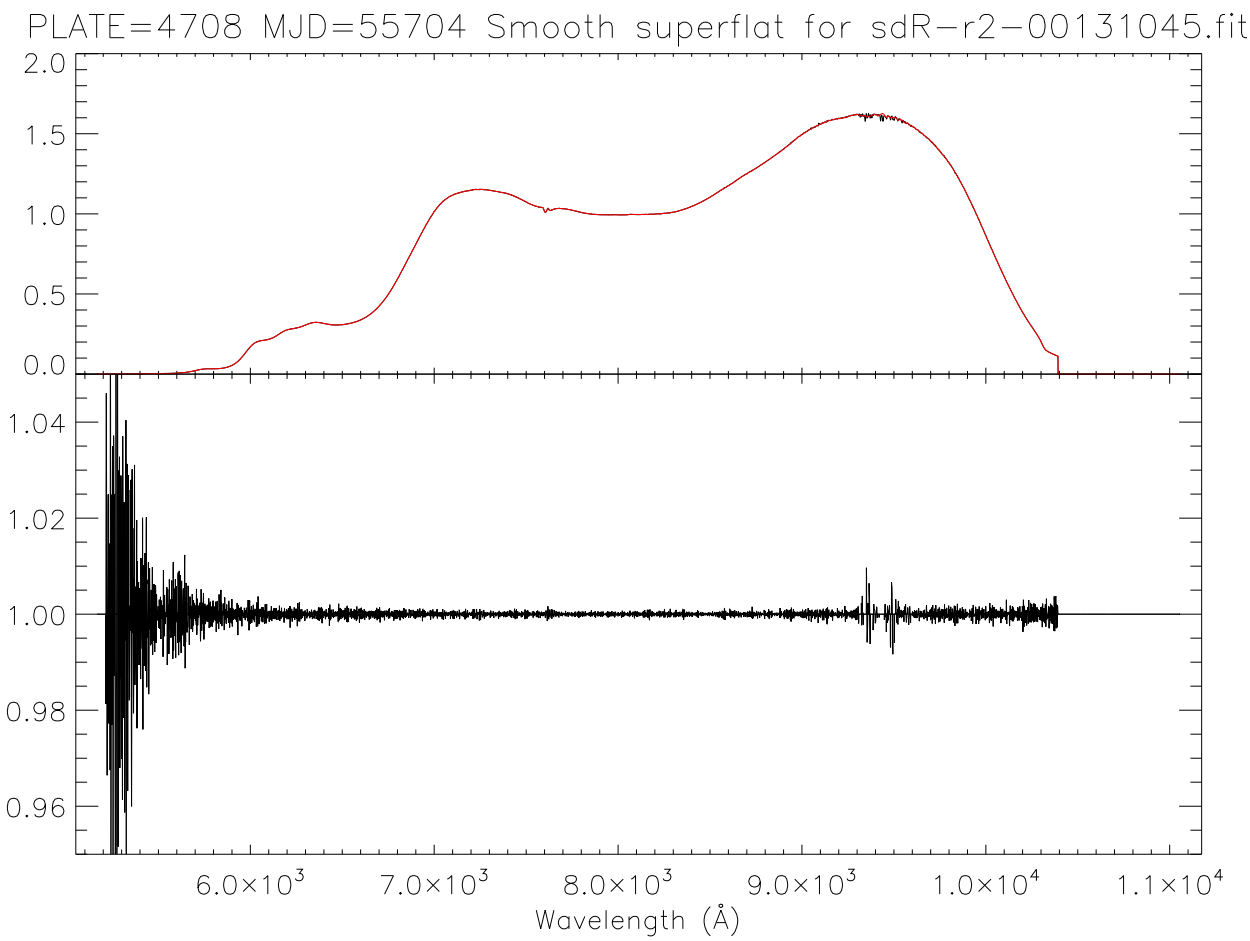

PLATE=4708 MJD=55704 Superflat sdR-r2-00131044.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

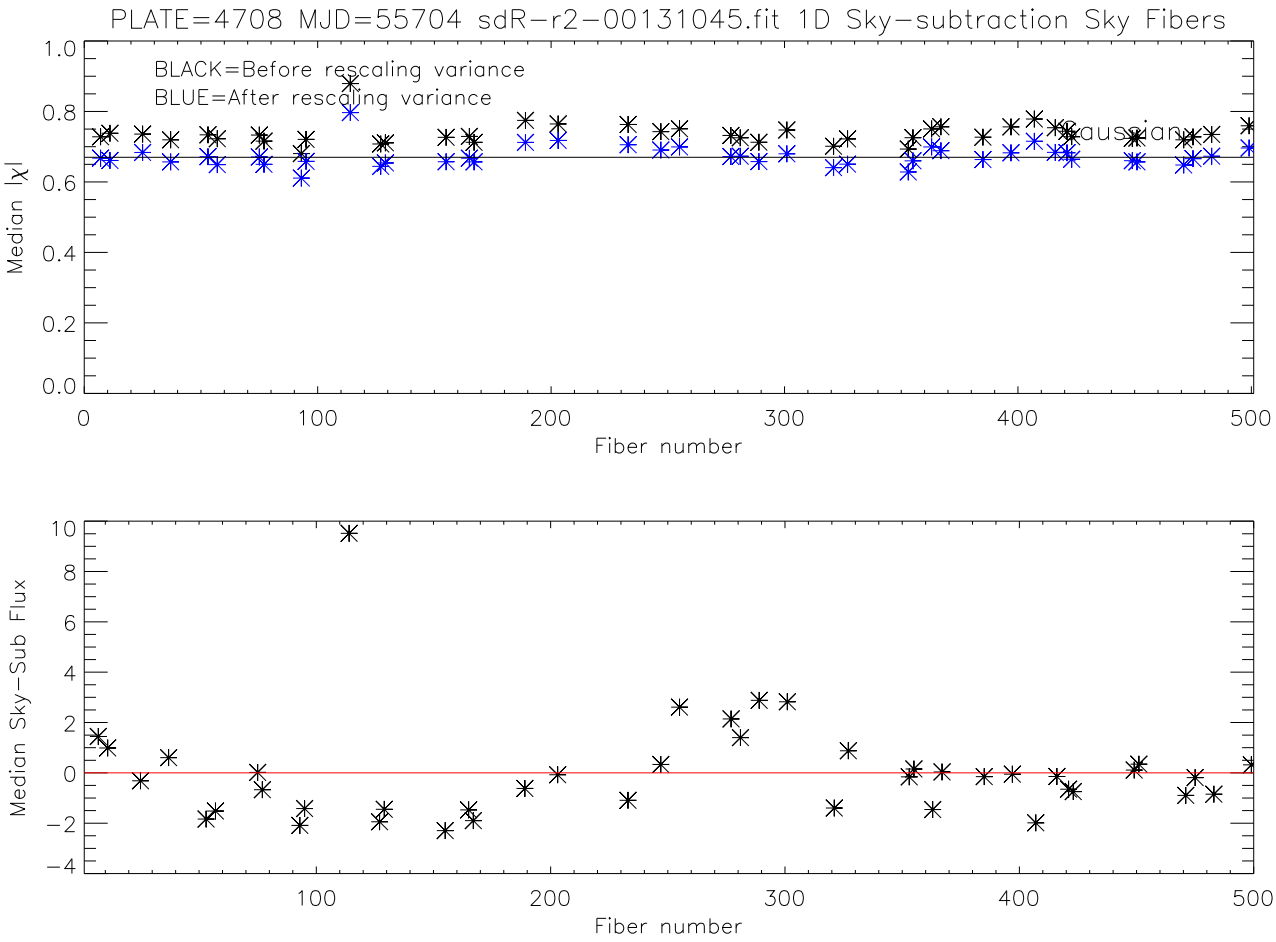

PLATE=4708 MJD=55704 Arcline Fit for sdR-r2-00131043.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Fri May 27 13:06:49 2016


PLATE=4708 MJD=55704 Fiber−Flats for sdR−r2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.952
Max value = 3.673
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Fri May 27 13:07:03 2016

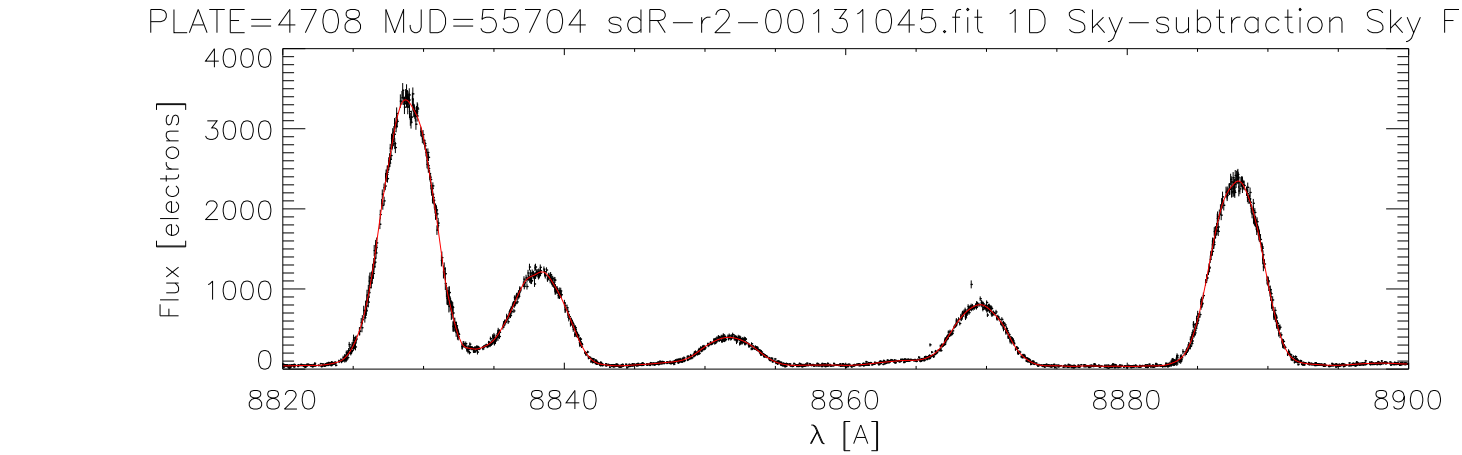

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r2−00131045.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

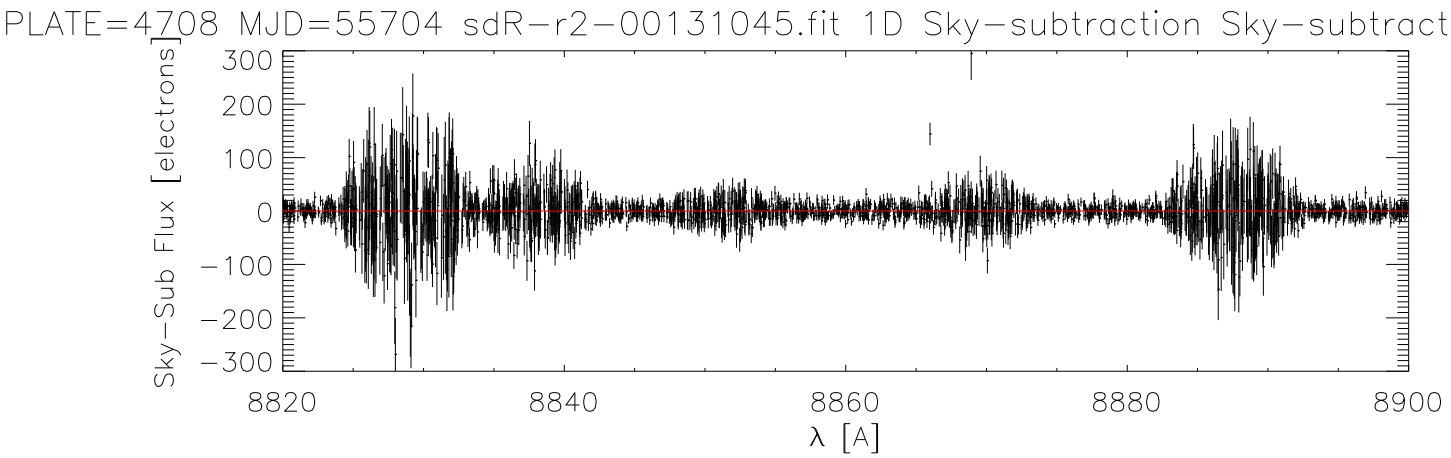

PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r2-00131045.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4708 MJD=55704 Smooth superflat for sdR-r2-00131045.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

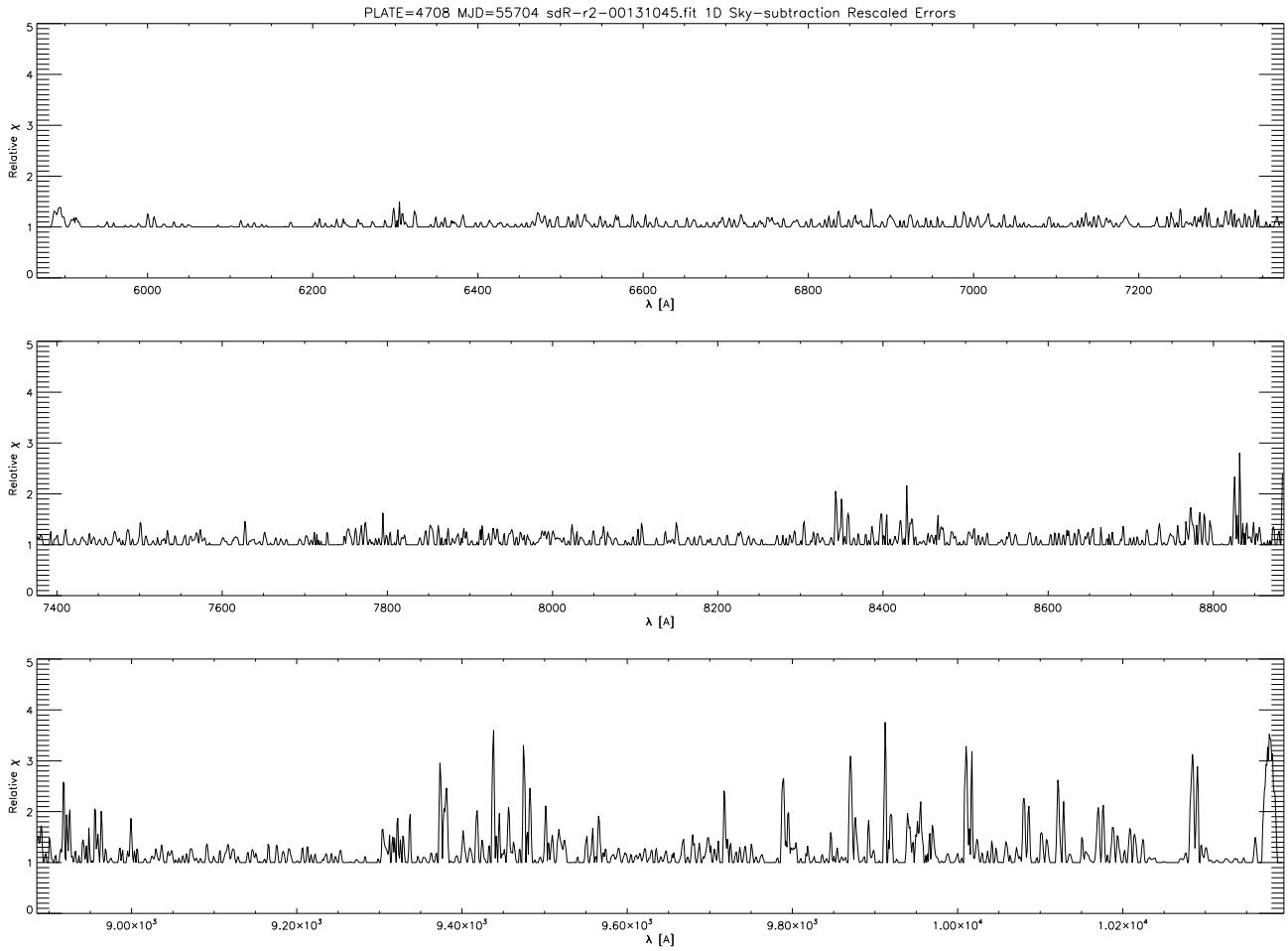

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

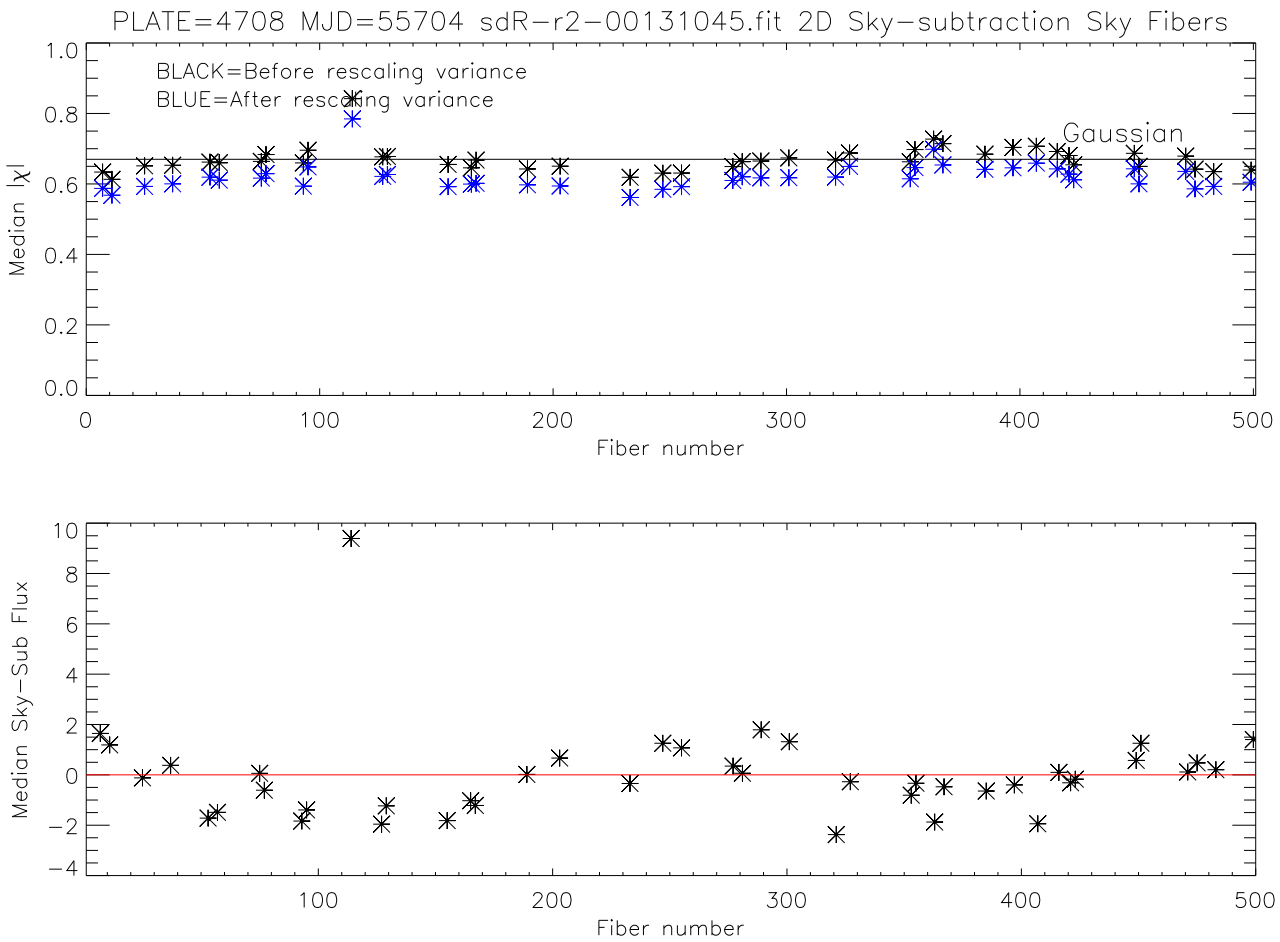
Median Sky-Sub Flux
Fiber number

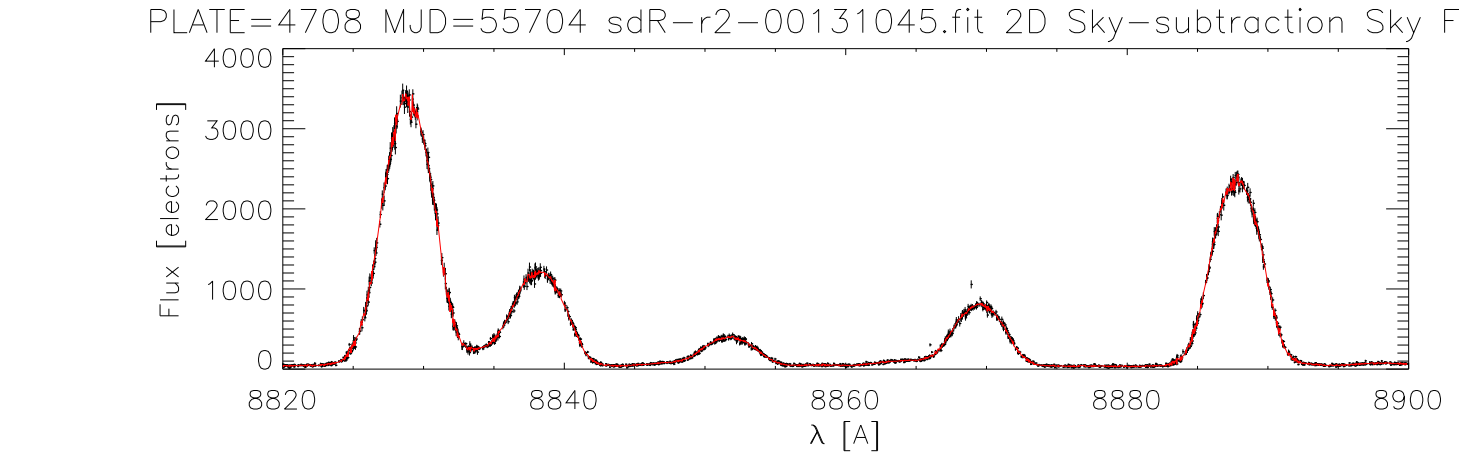

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

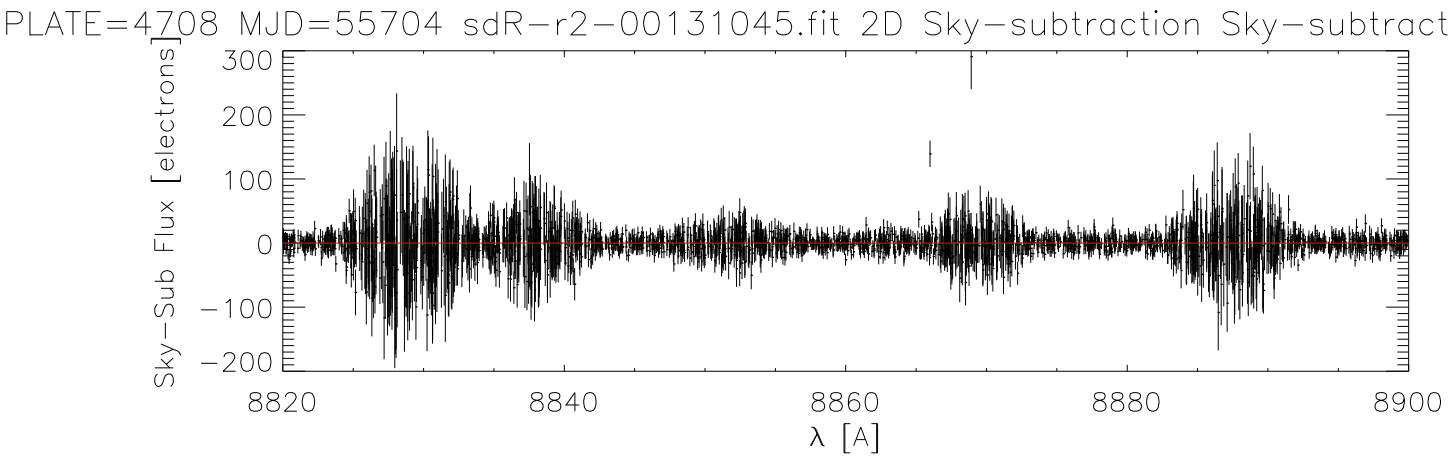

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 43

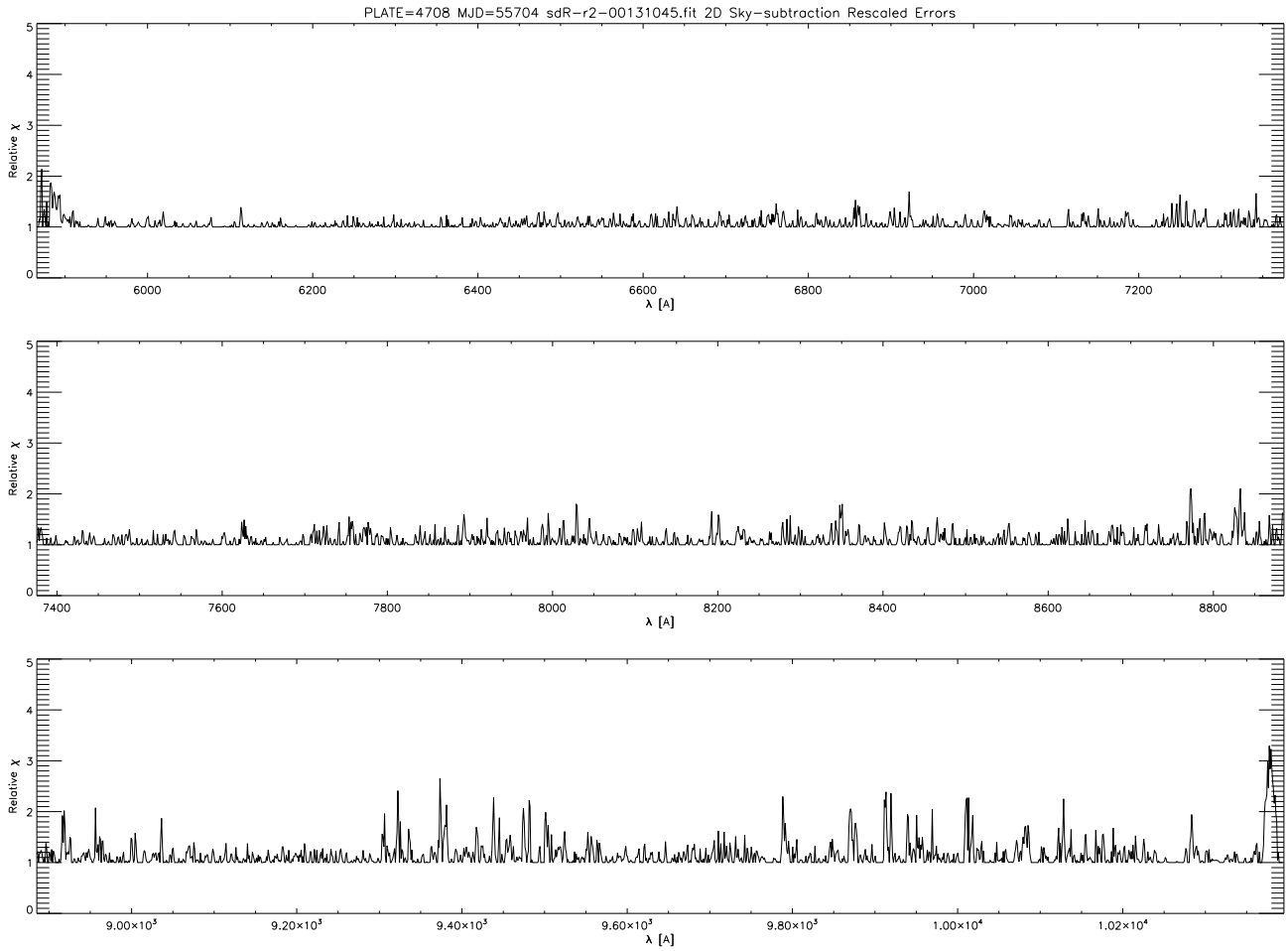


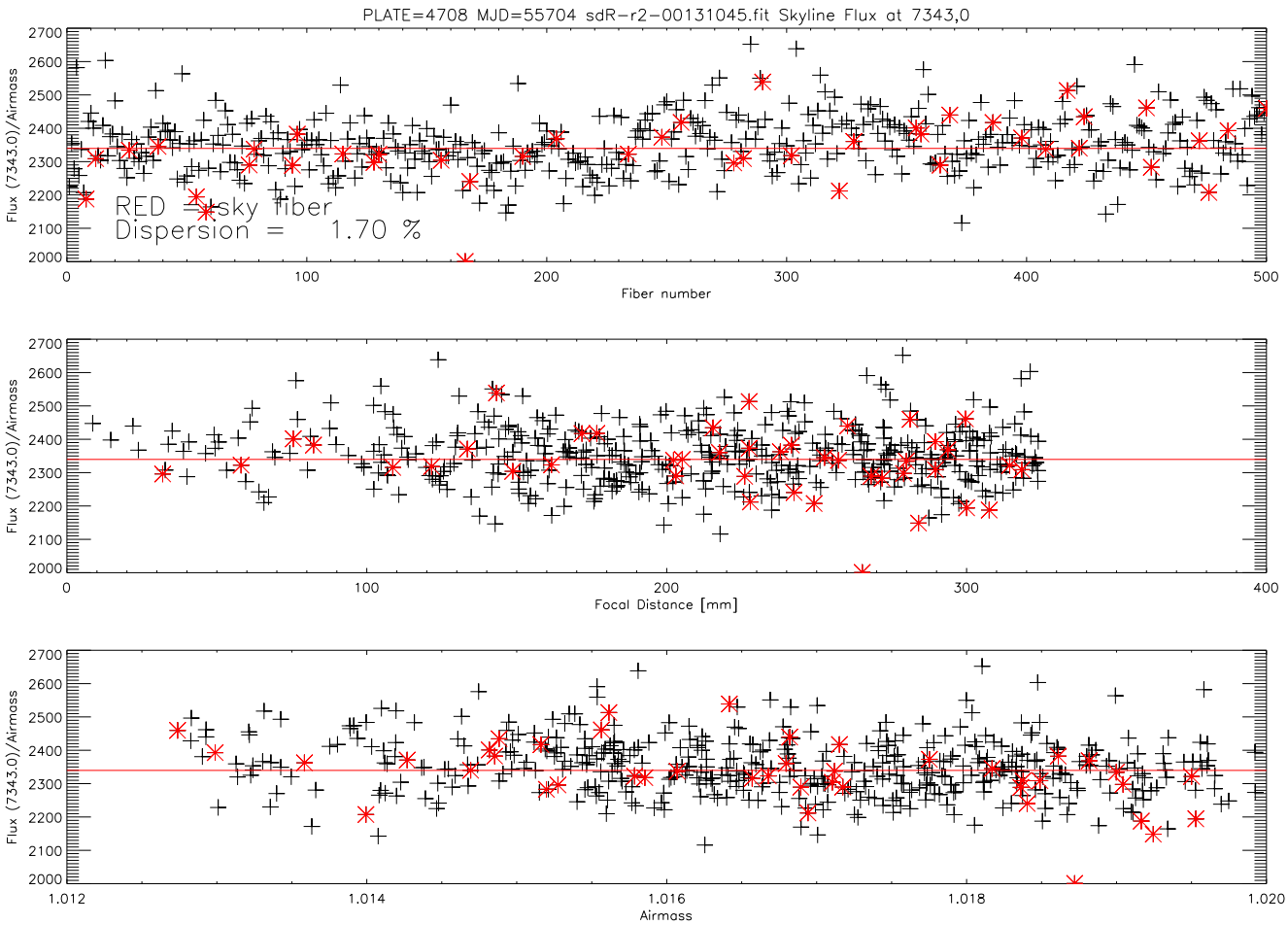

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

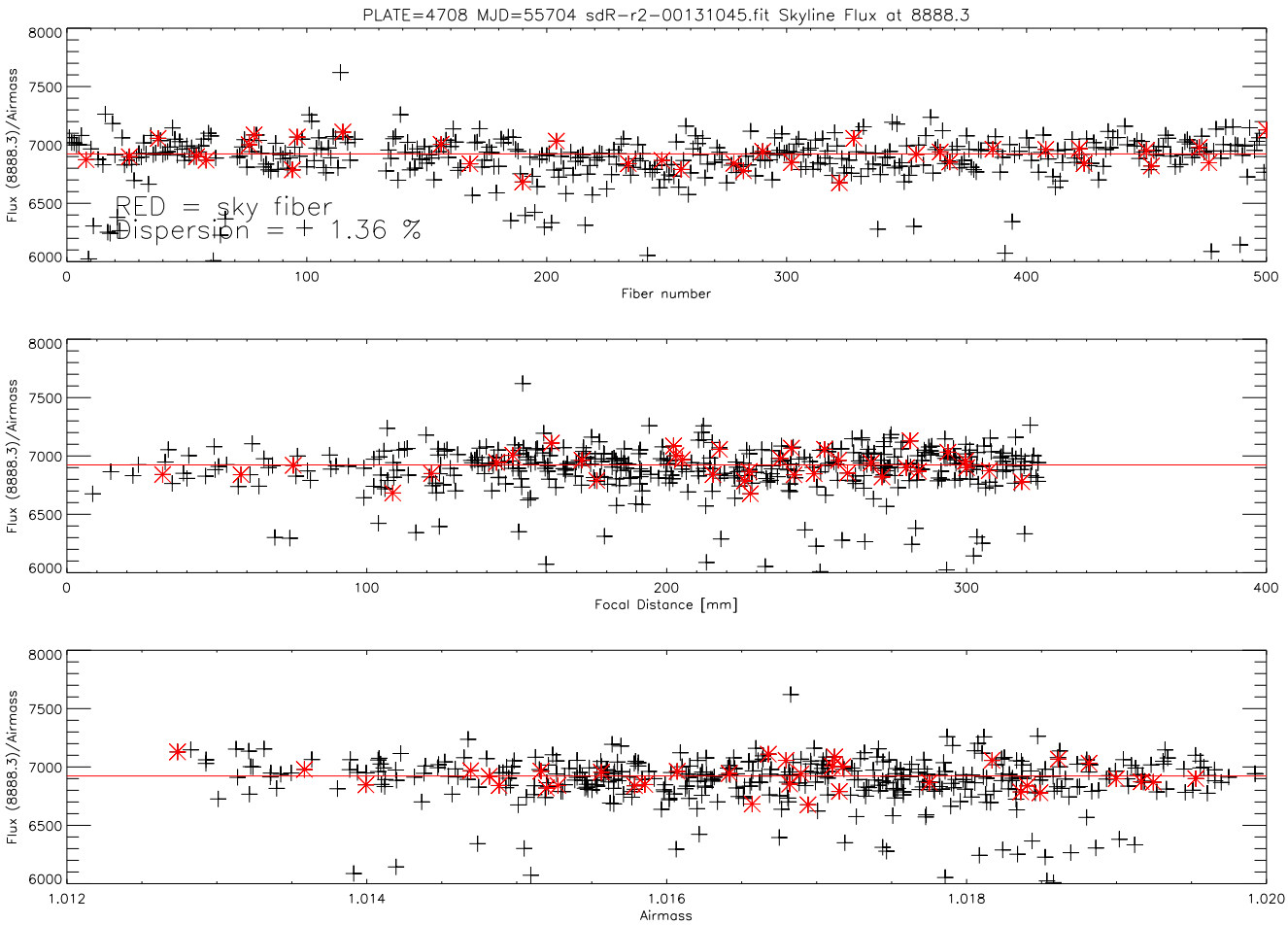

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

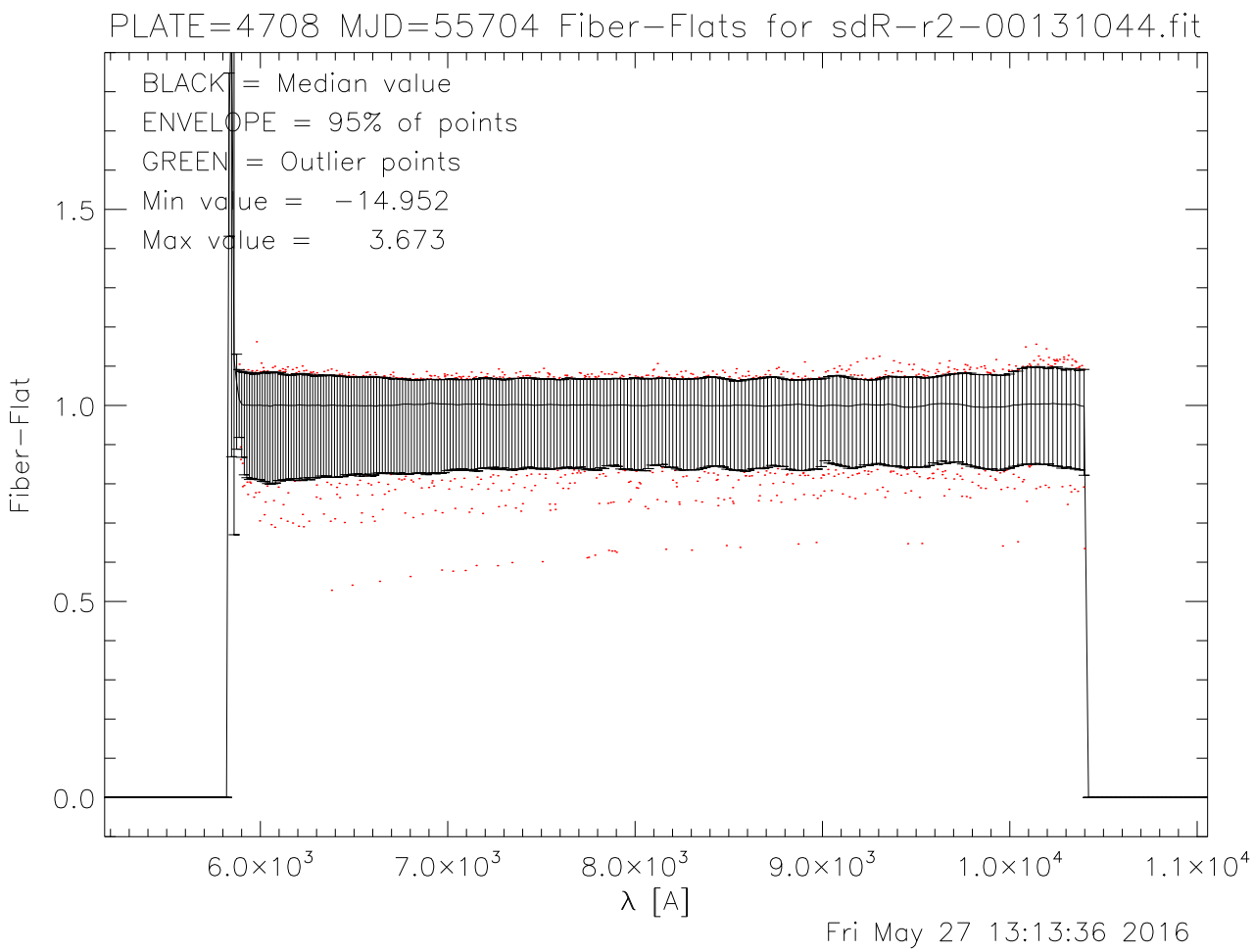

PLATE=4708 MJD=55704 sdR-r2-00131045.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

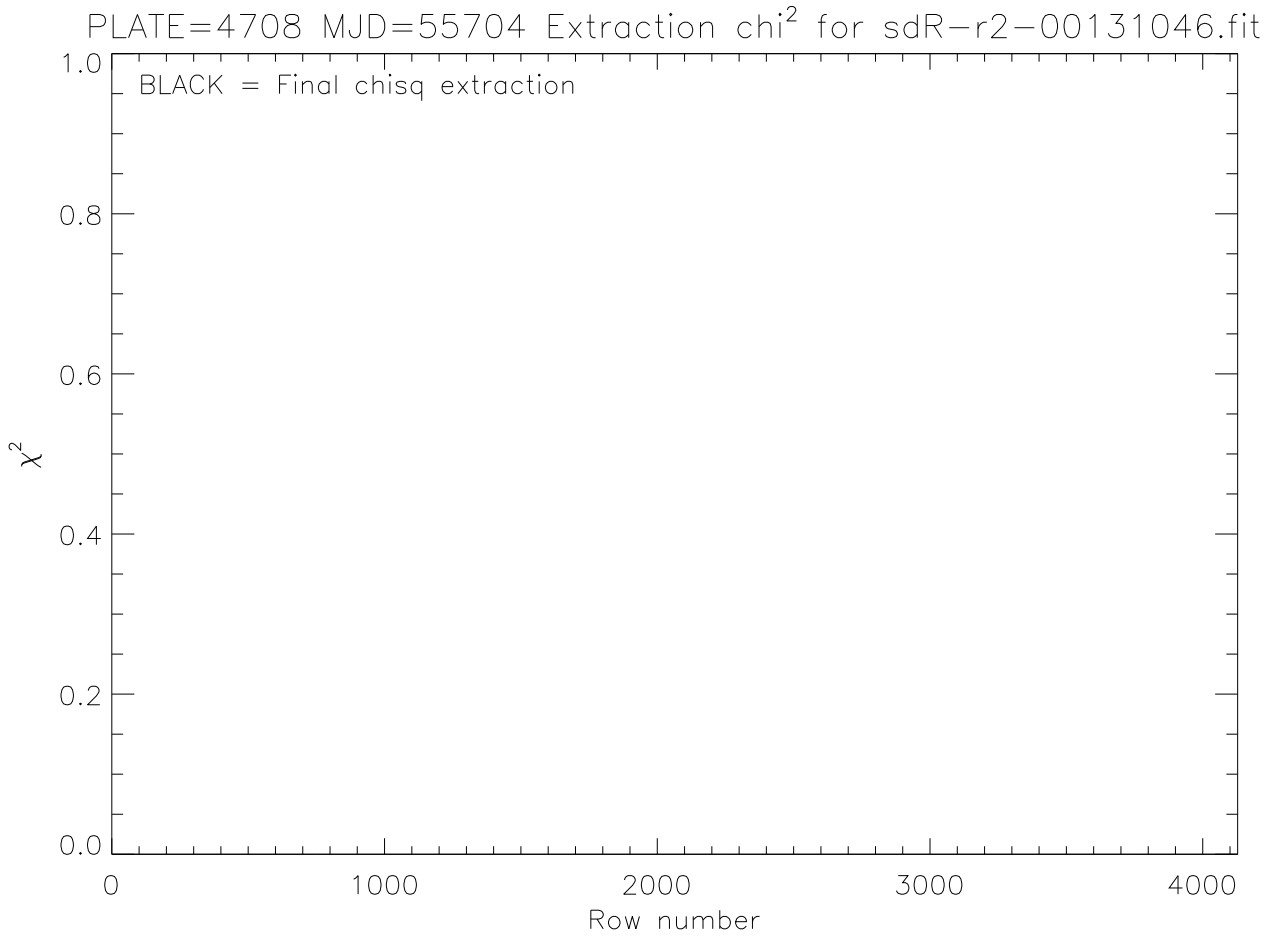
Number of sky fibers = 43

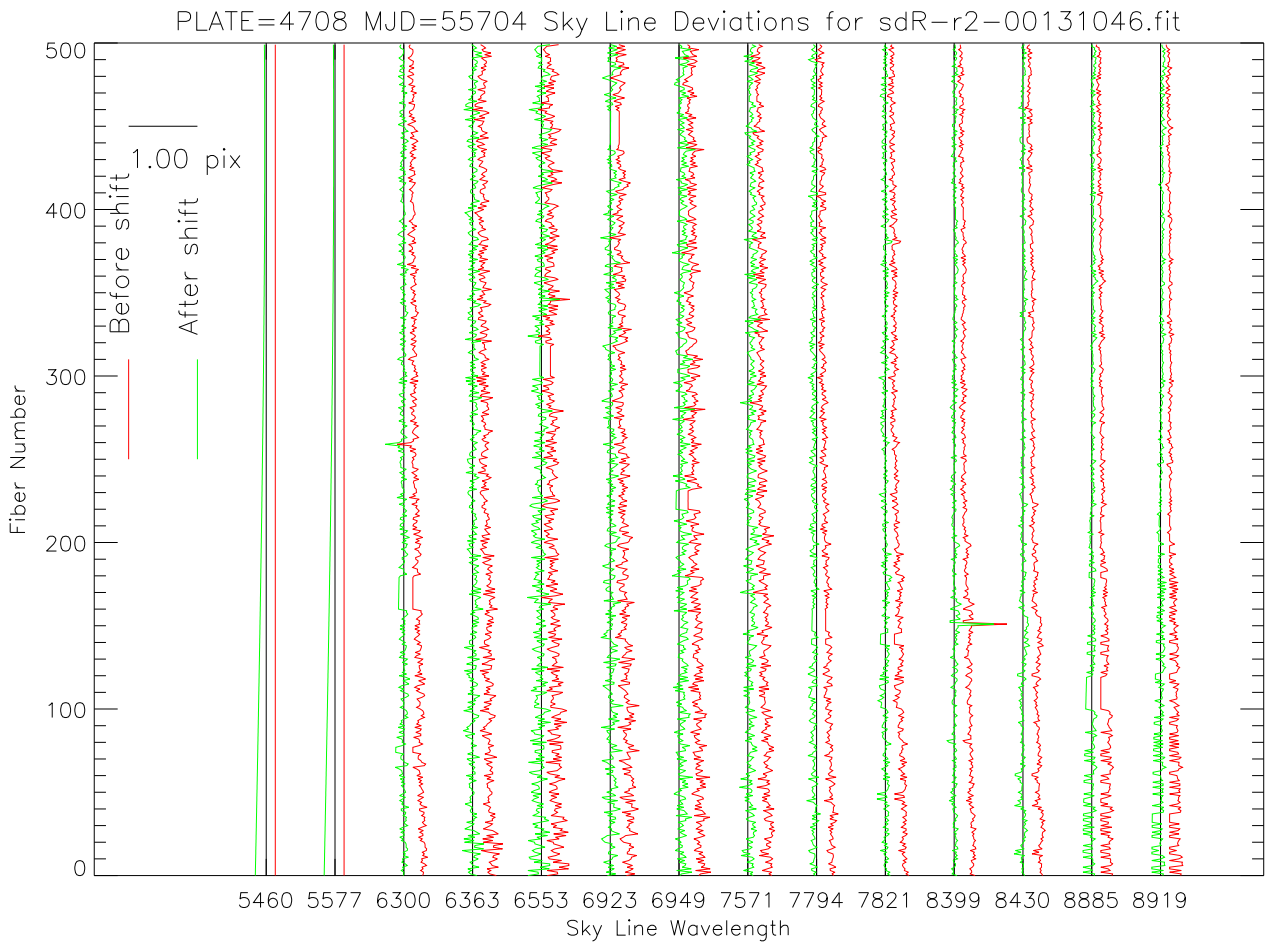


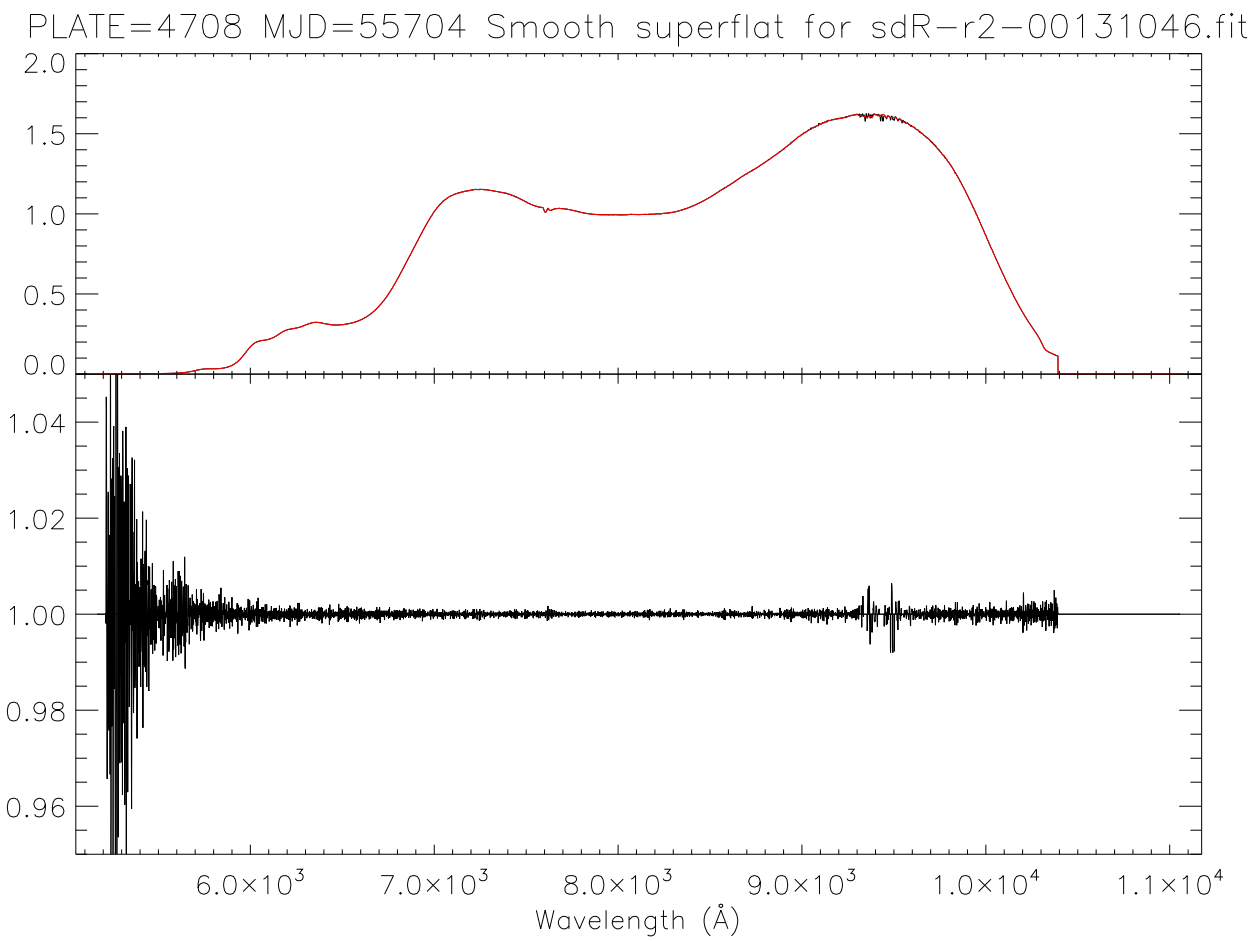

PLATE=4708 MJD=55704 sdR-r2-00131045.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.70 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

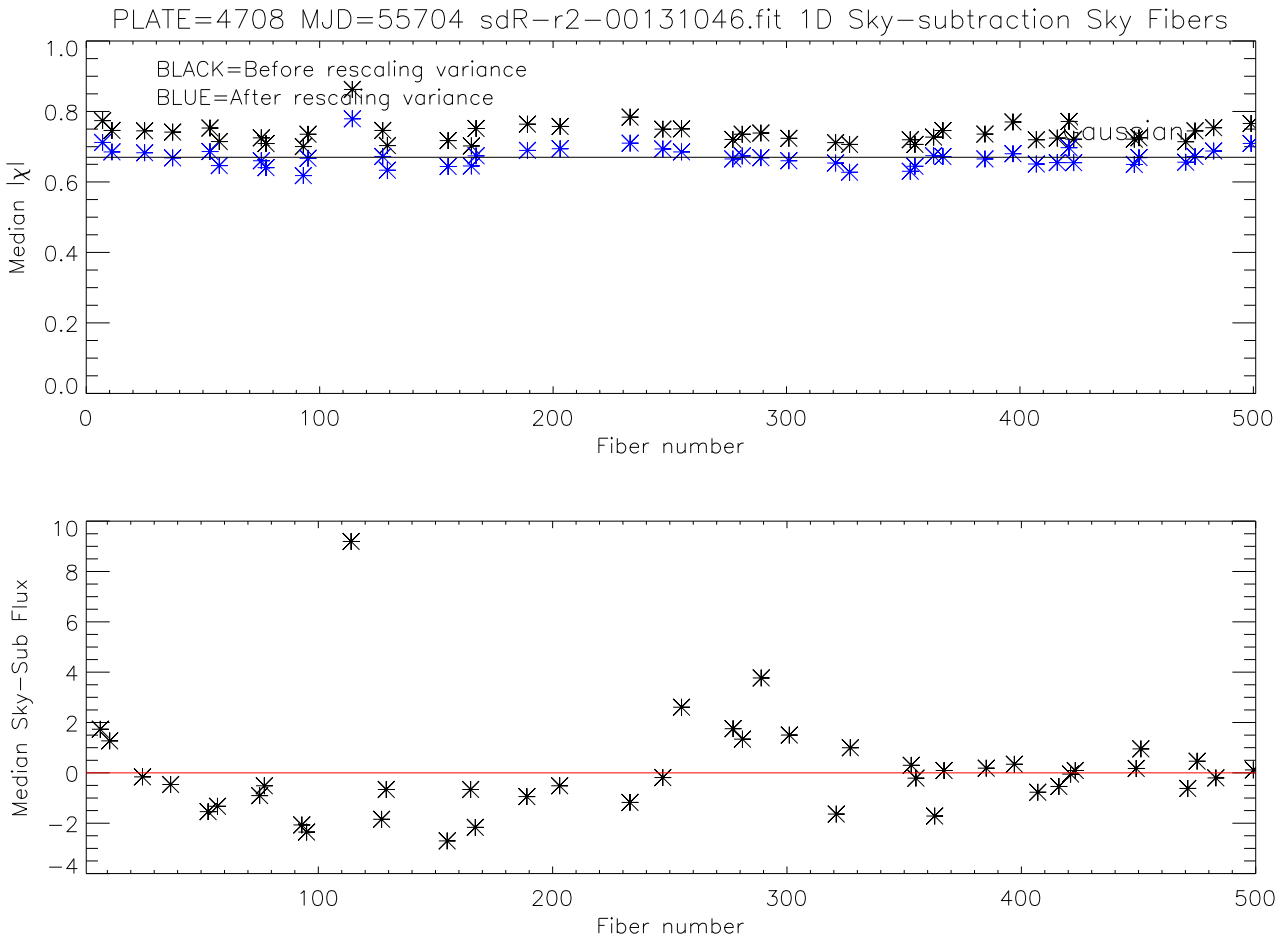

PLATE=4708 MJD=55704 sdR-r2-00131045.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = + 1.36 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

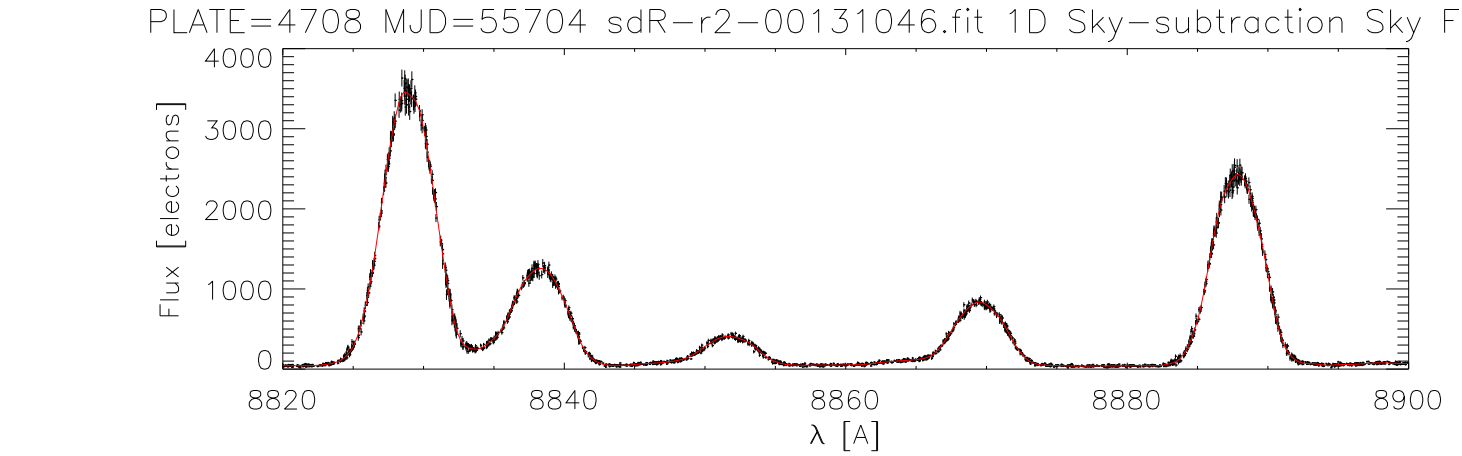

PLATE=4708 MJD=55704 Fiber−Flats for sdR−r2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.952
Max value = 3.673
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Fri May 27 13:13:36 2016

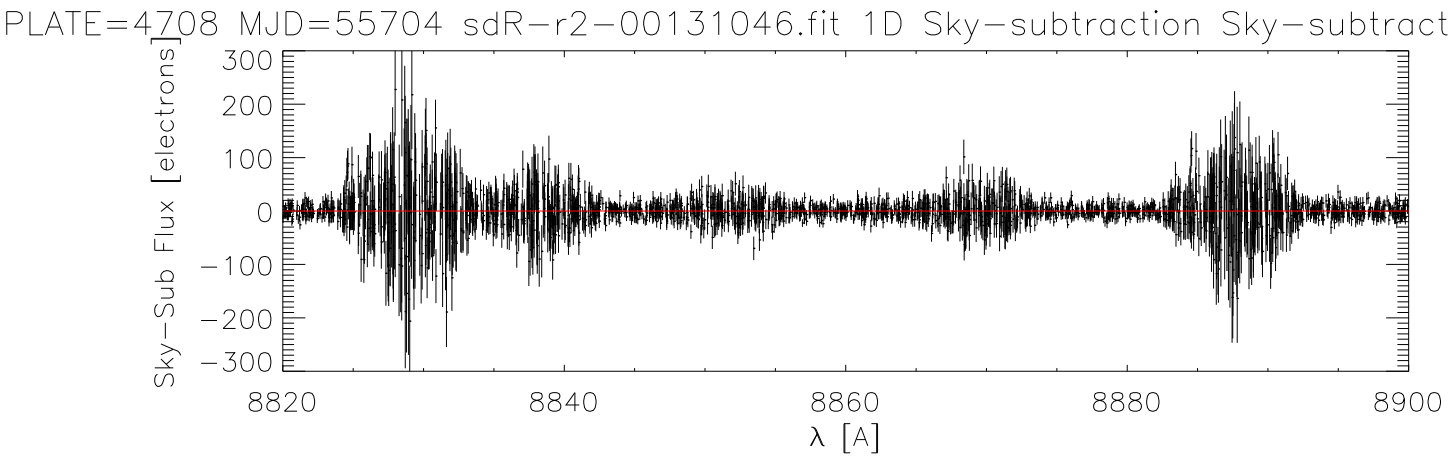

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r2−00131046.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r2-00131046.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

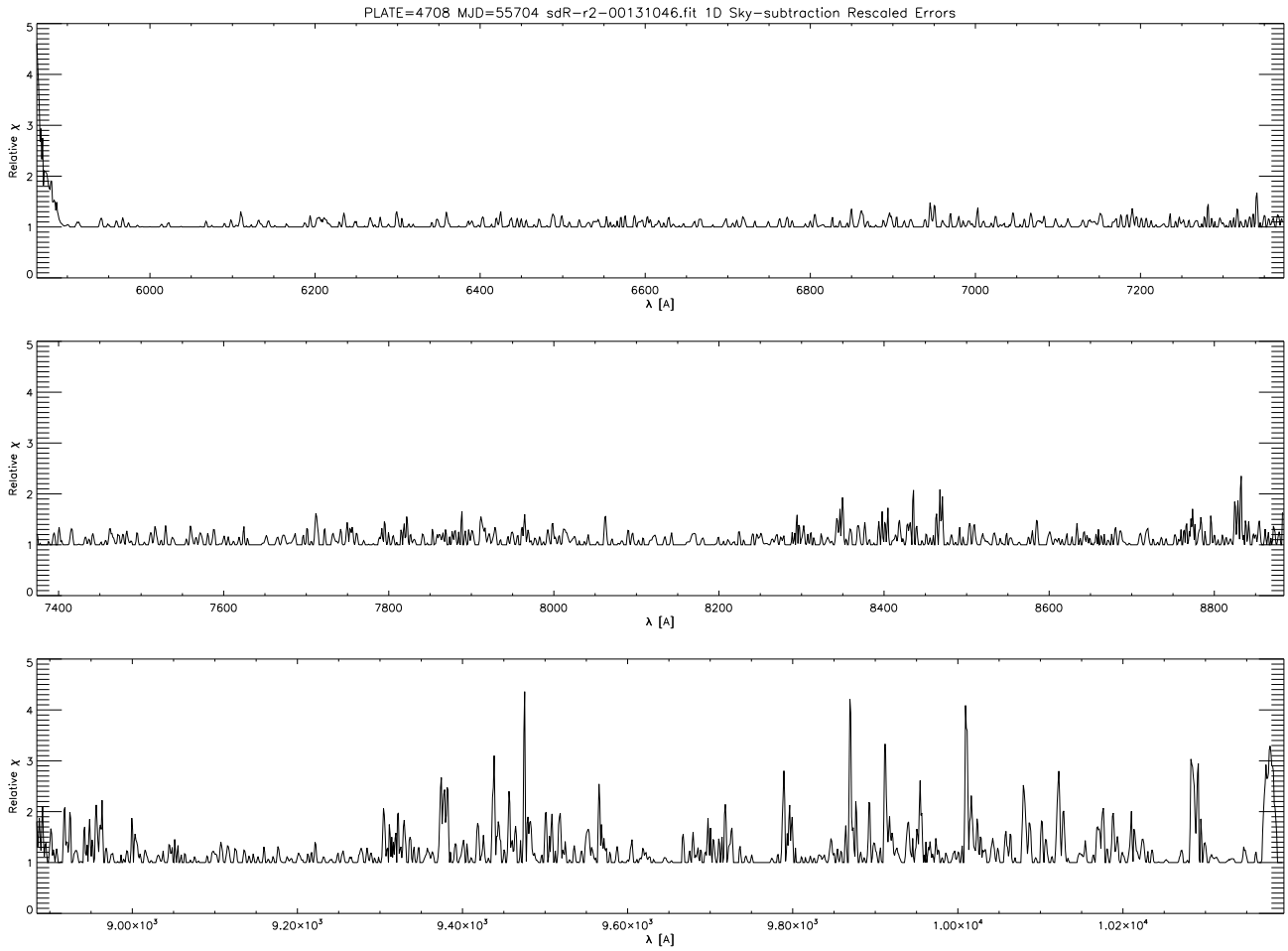

PLATE=4708 MJD=55704 Smooth superflat for sdR-r2-00131046.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

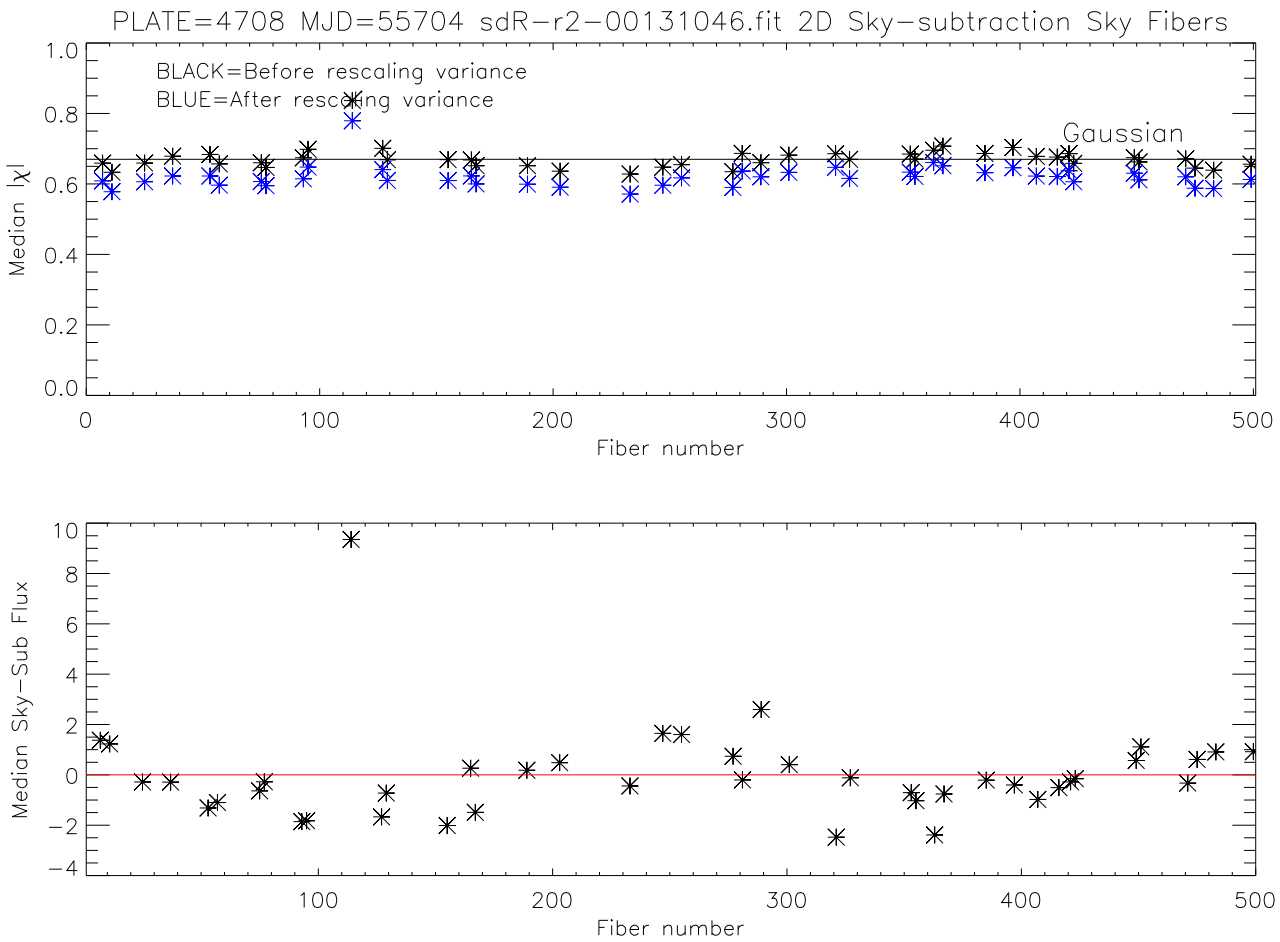

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

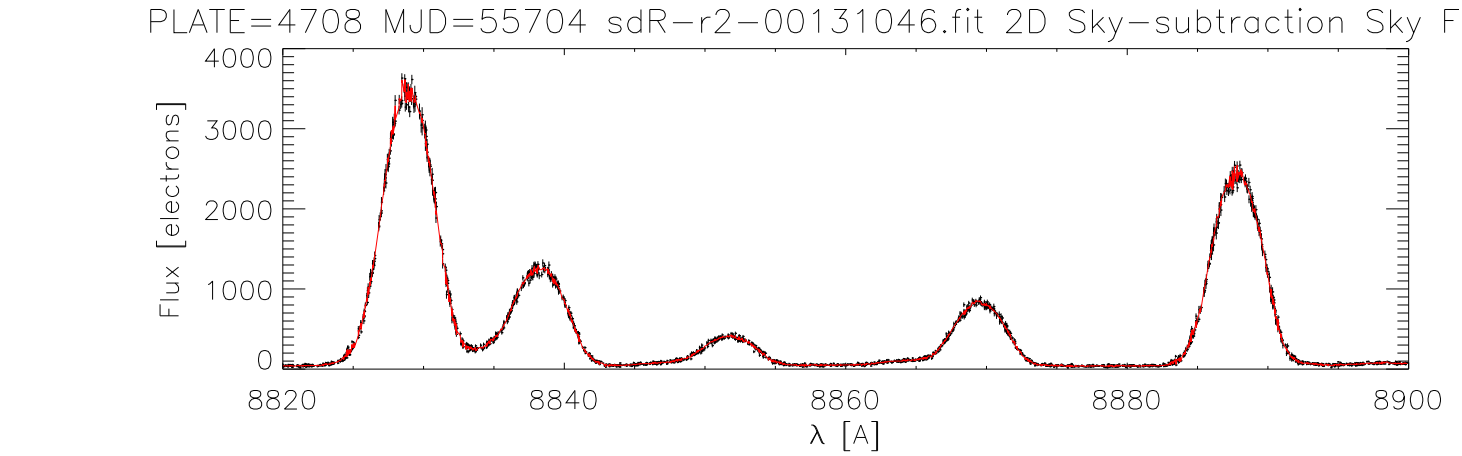

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

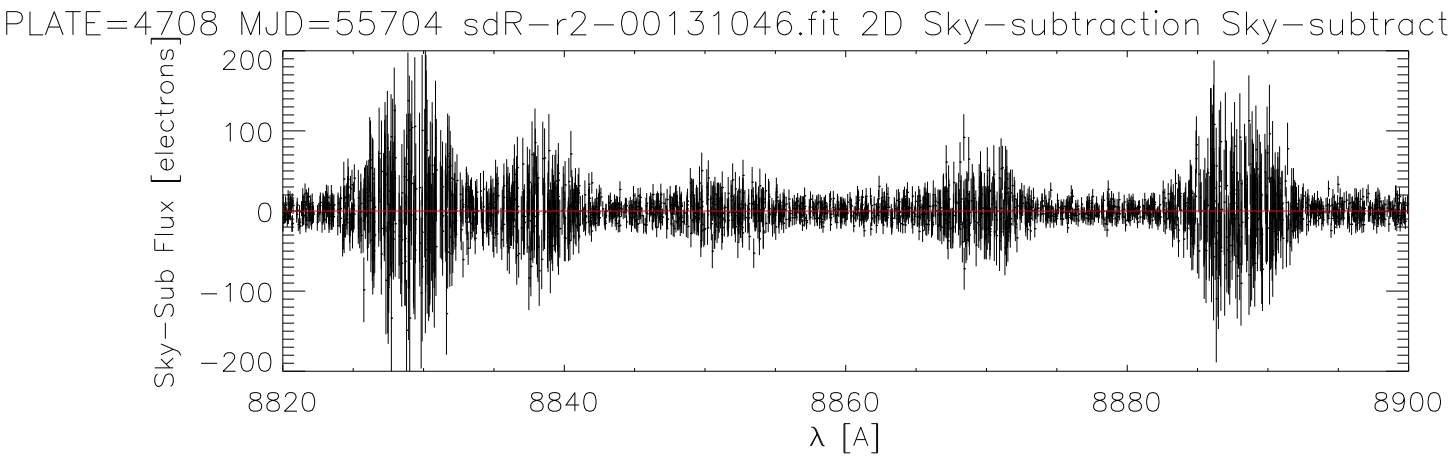

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 43

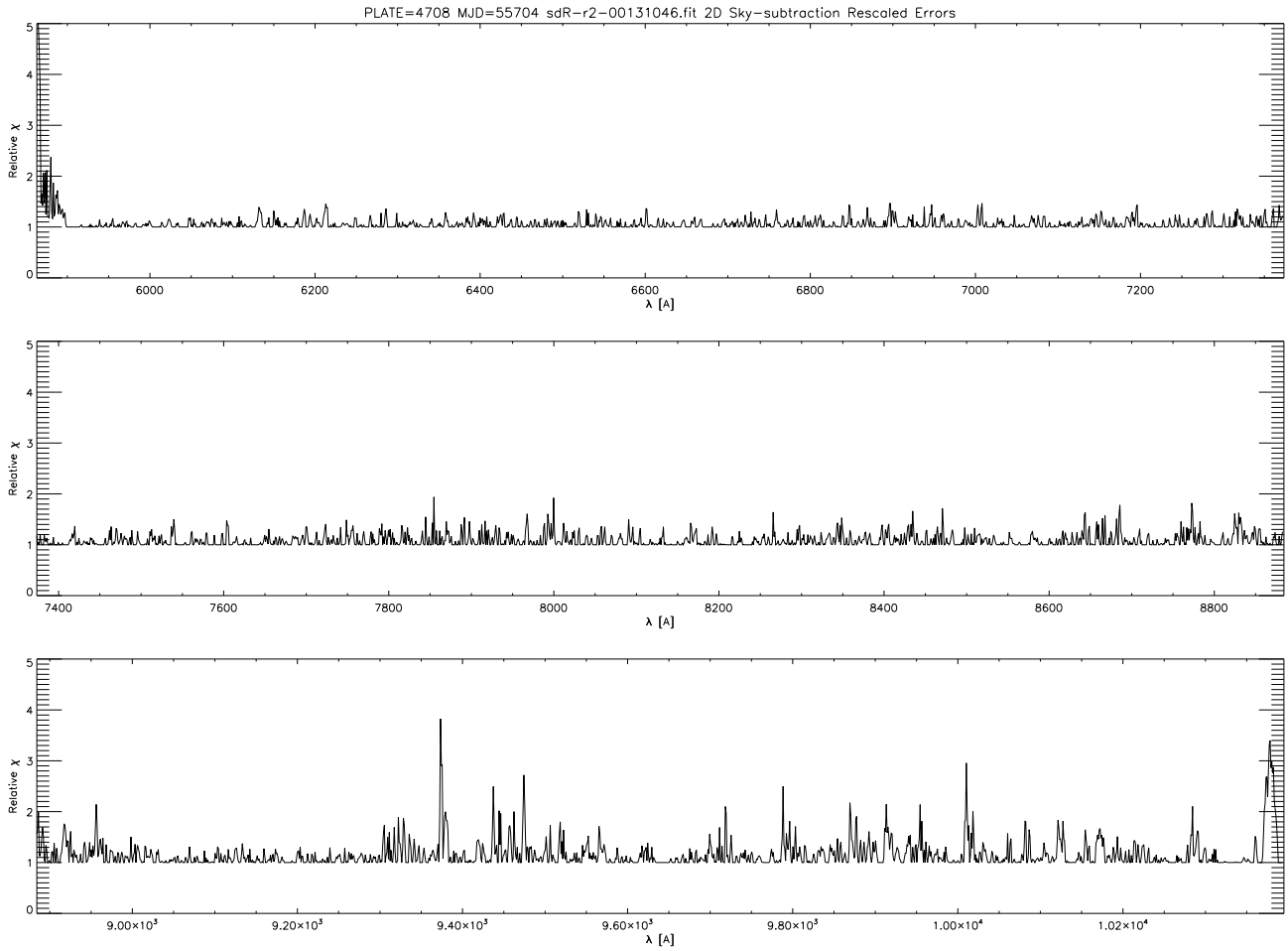


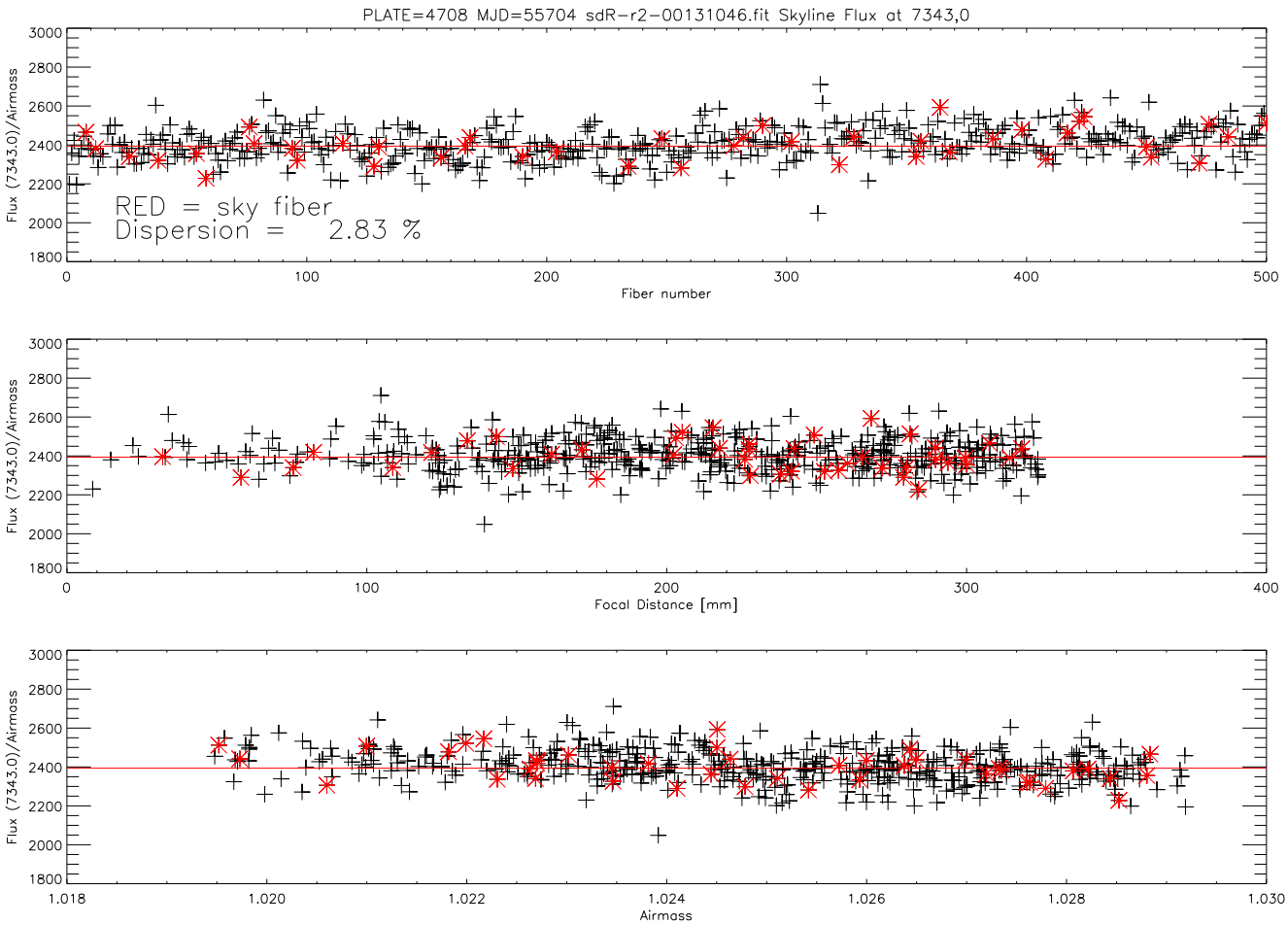

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

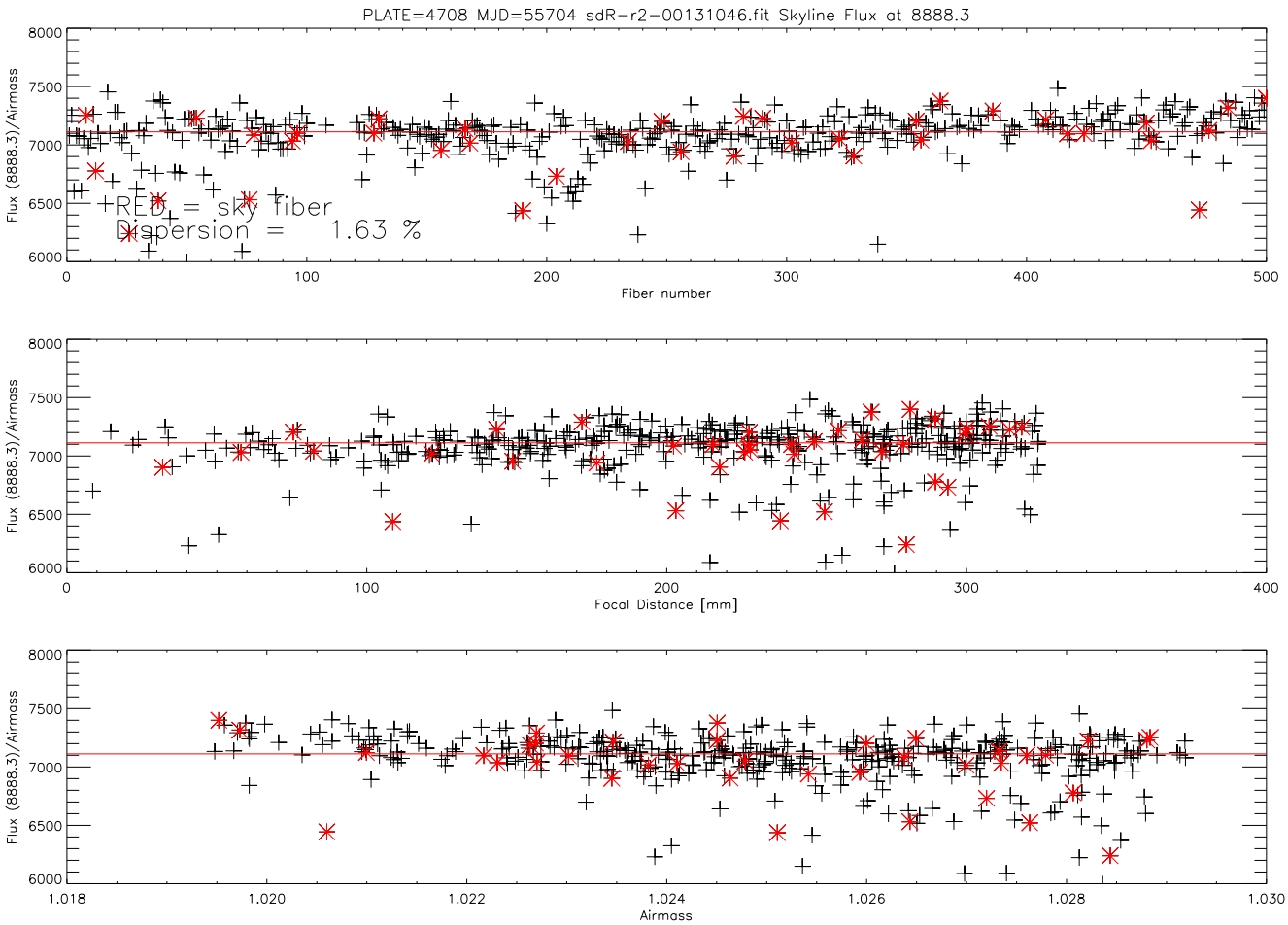

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

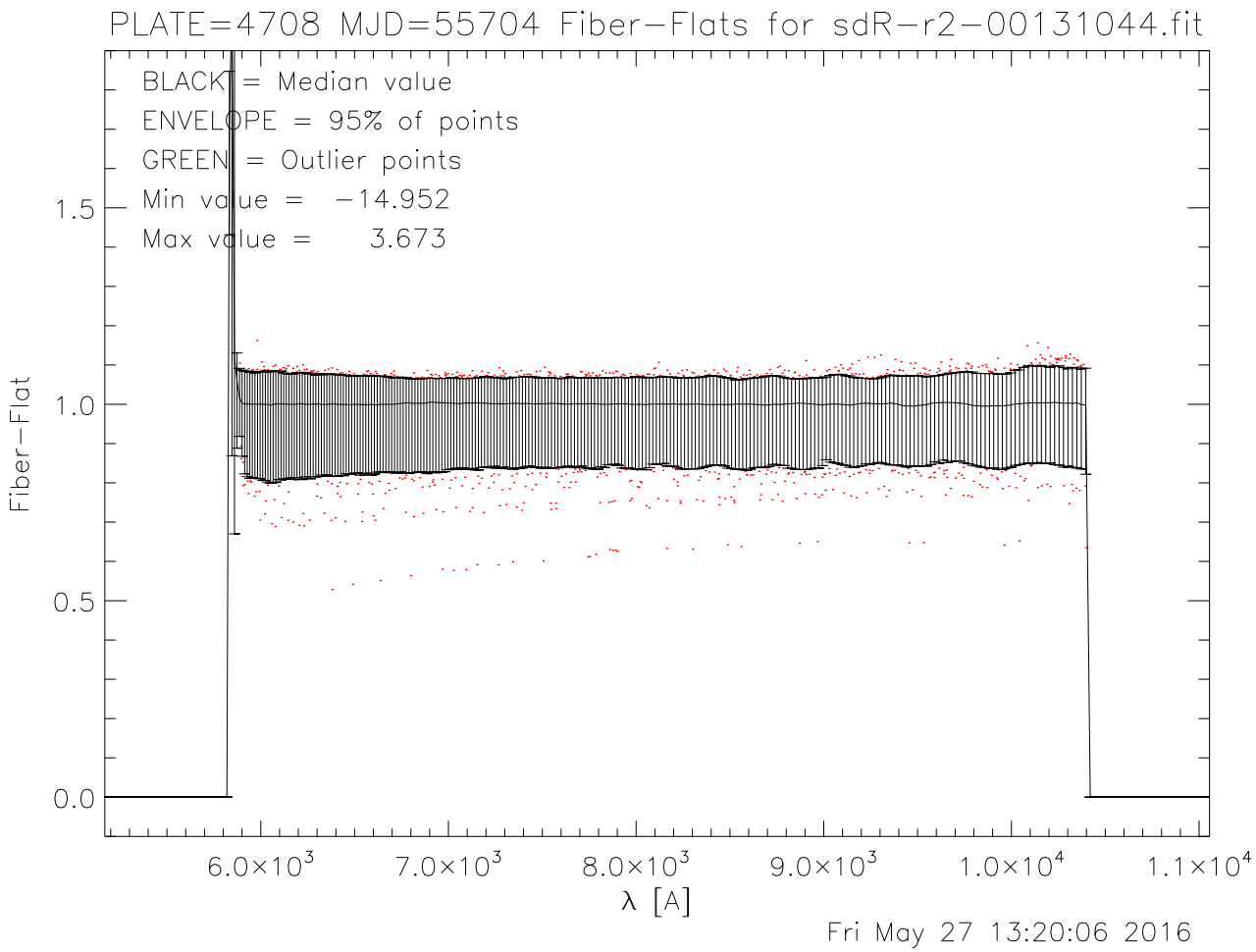

PLATE=4708 MJD=55704 sdR-r2-00131046.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

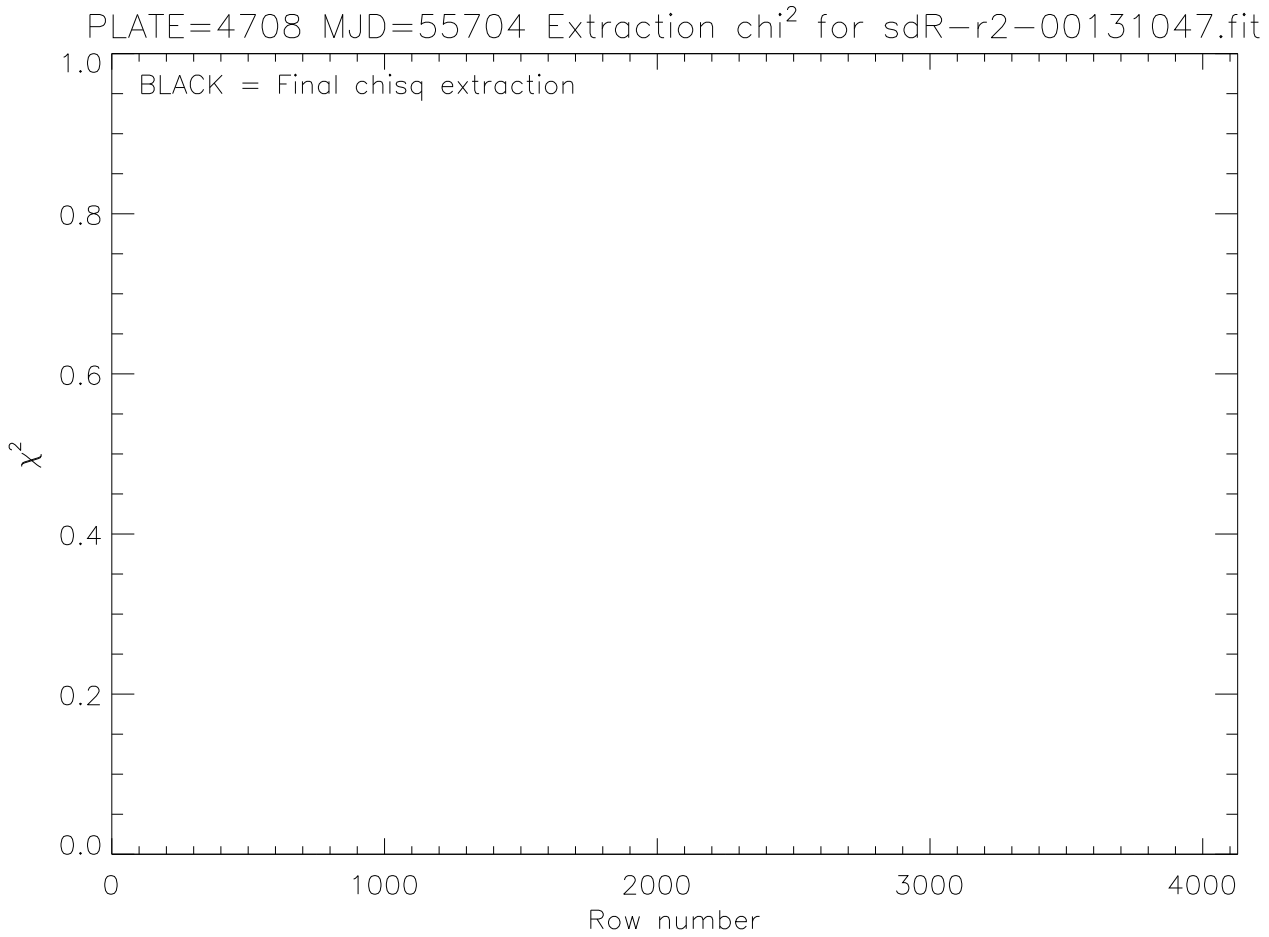
Number of sky fibers = 43

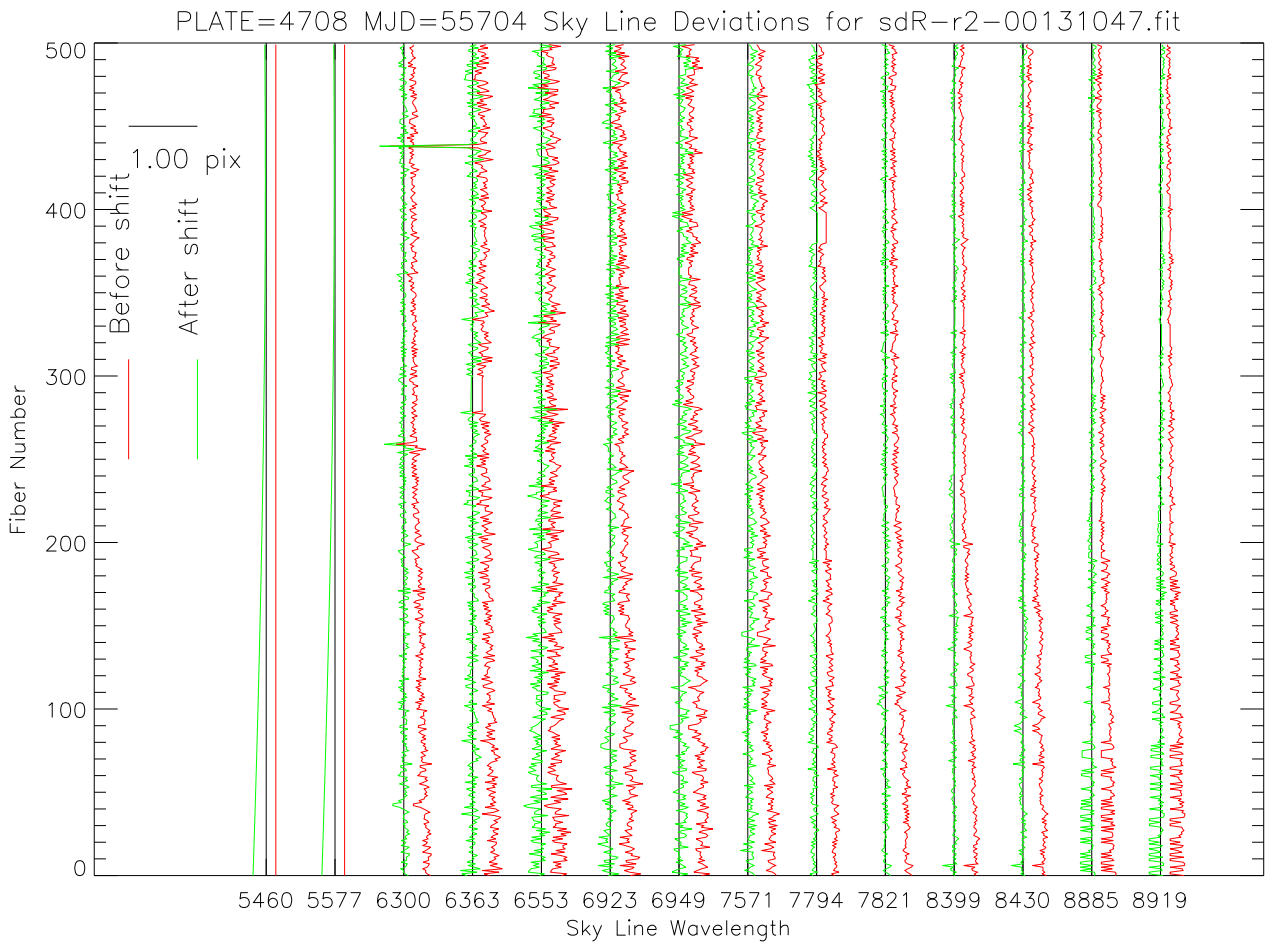


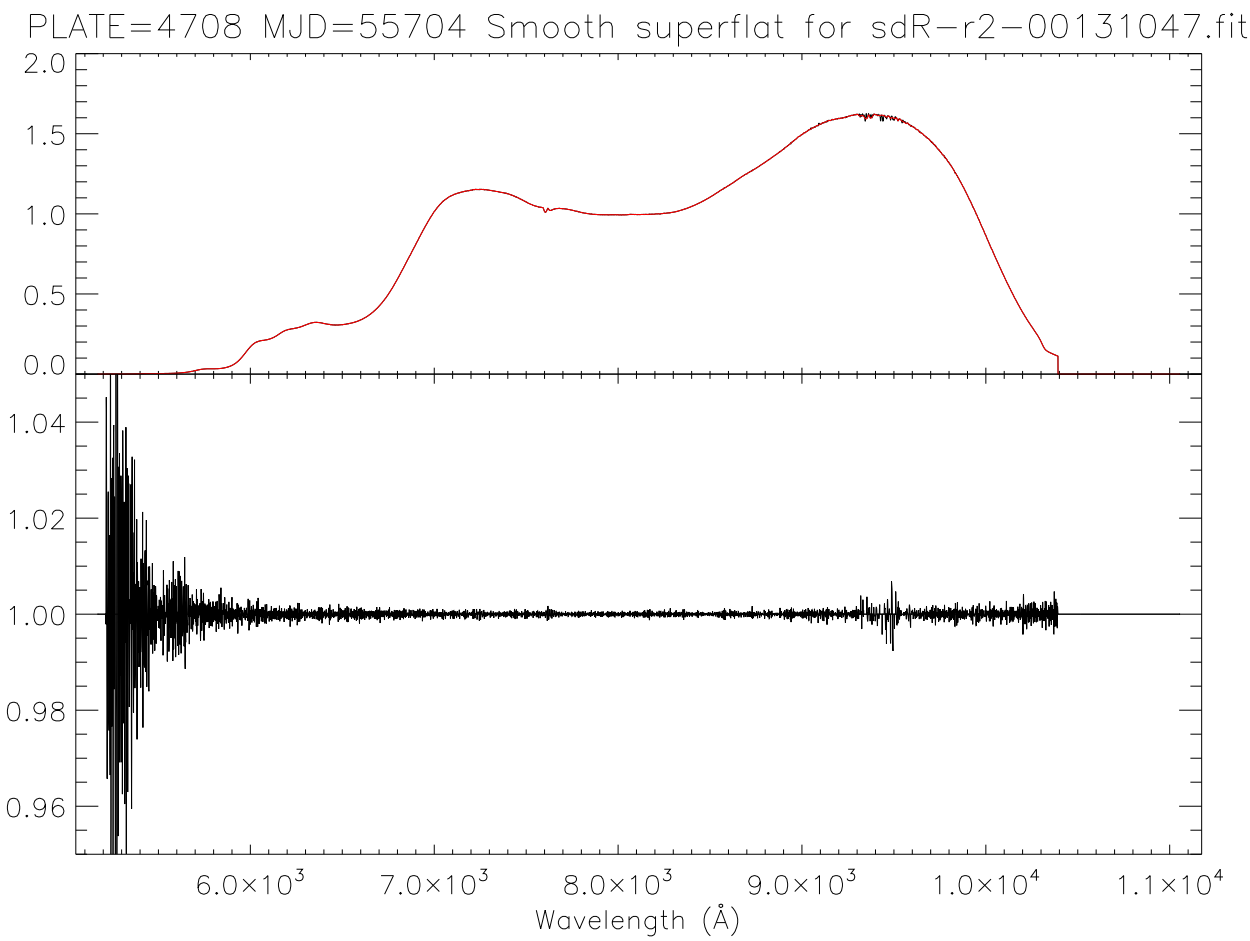

PLATE=4708 MJD=55704 sdR-r2-00131046.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

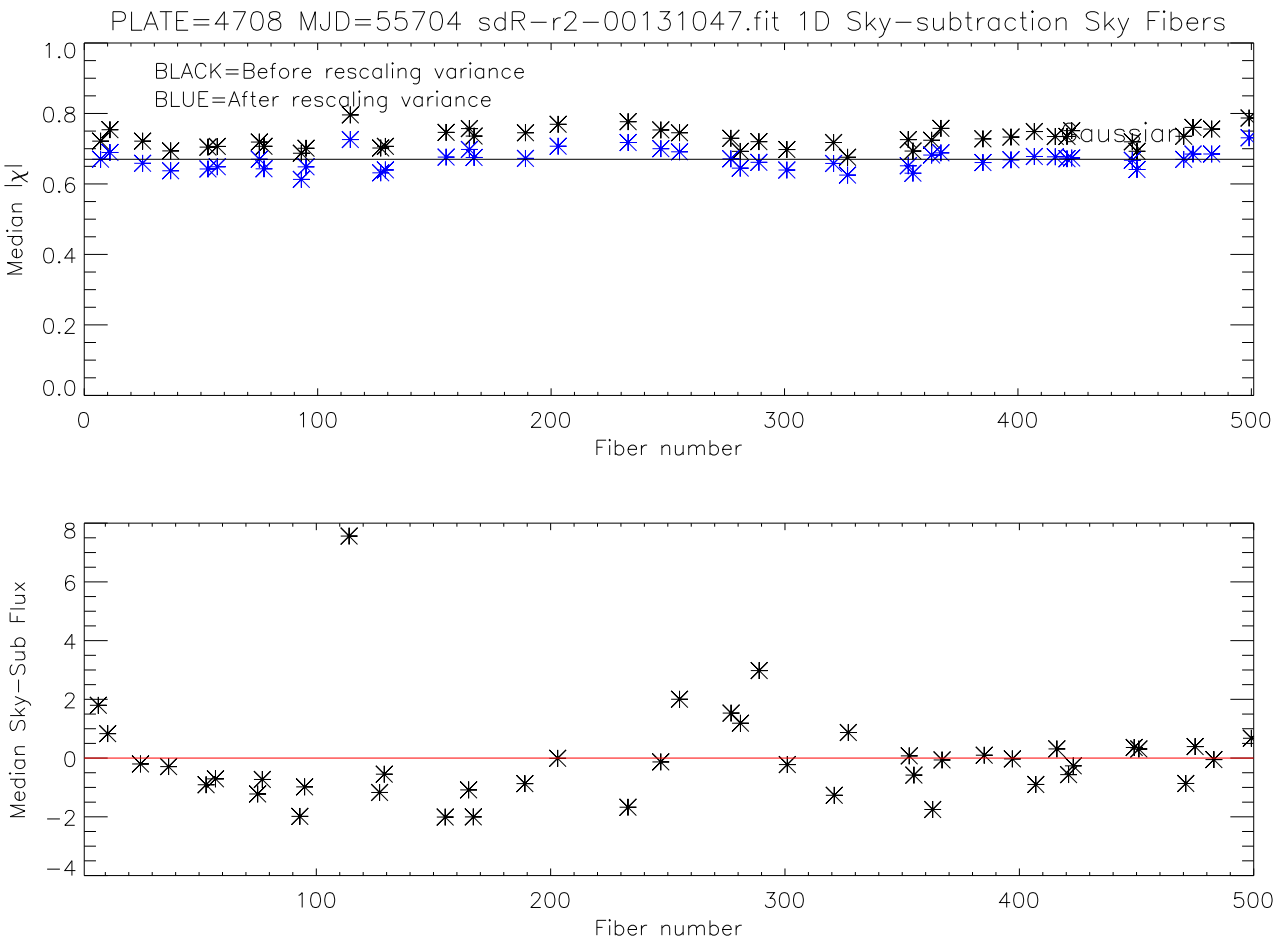

PLATE=4708 MJD=55704 sdR-r2-00131046.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.63 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=4708 MJD=55704 Fiber−Flats for sdR−r2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.952
Max value = 3.673
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Fri May 27 13:20:06 2016

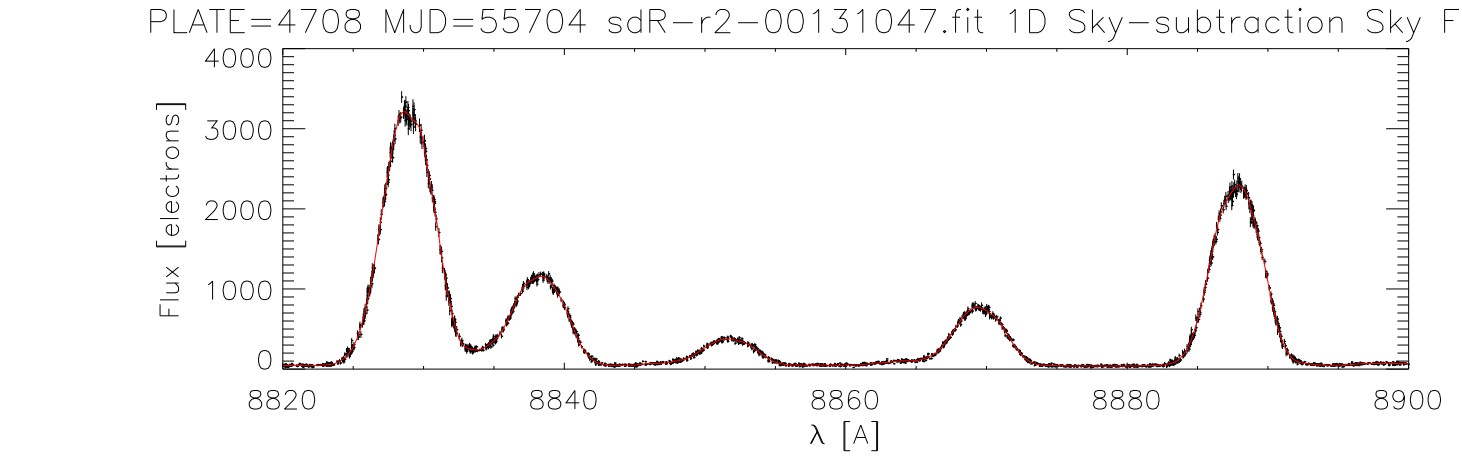

PLATE=4708 MJD=55704 Extraction chi^2 for sdR-r2-00131047.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

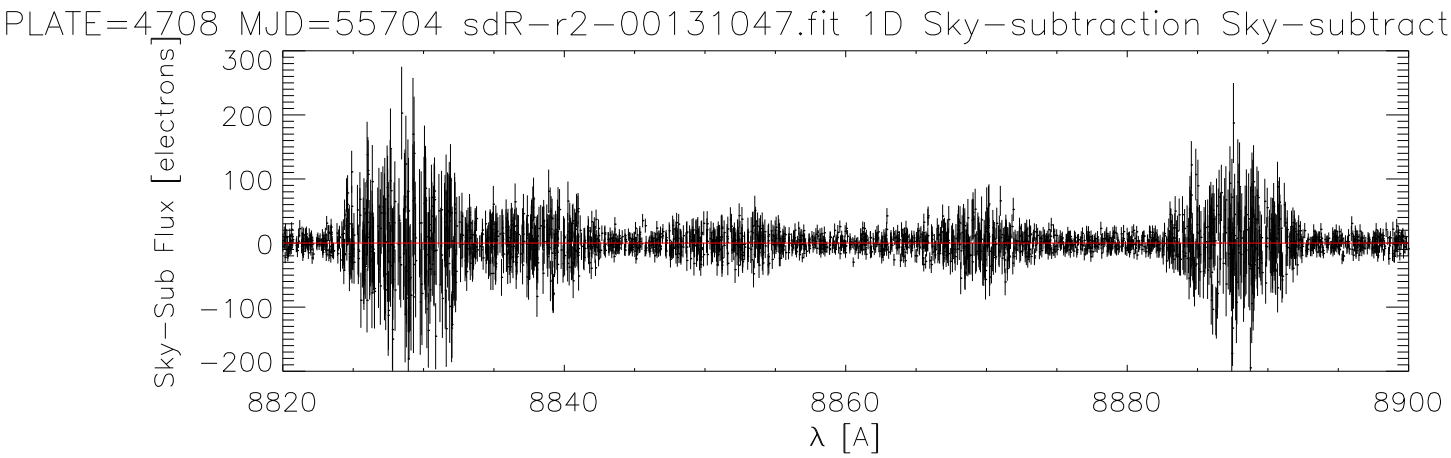

PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r2-00131047.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4708 MJD=55704 Smooth superflat for sdR-r2-00131047.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

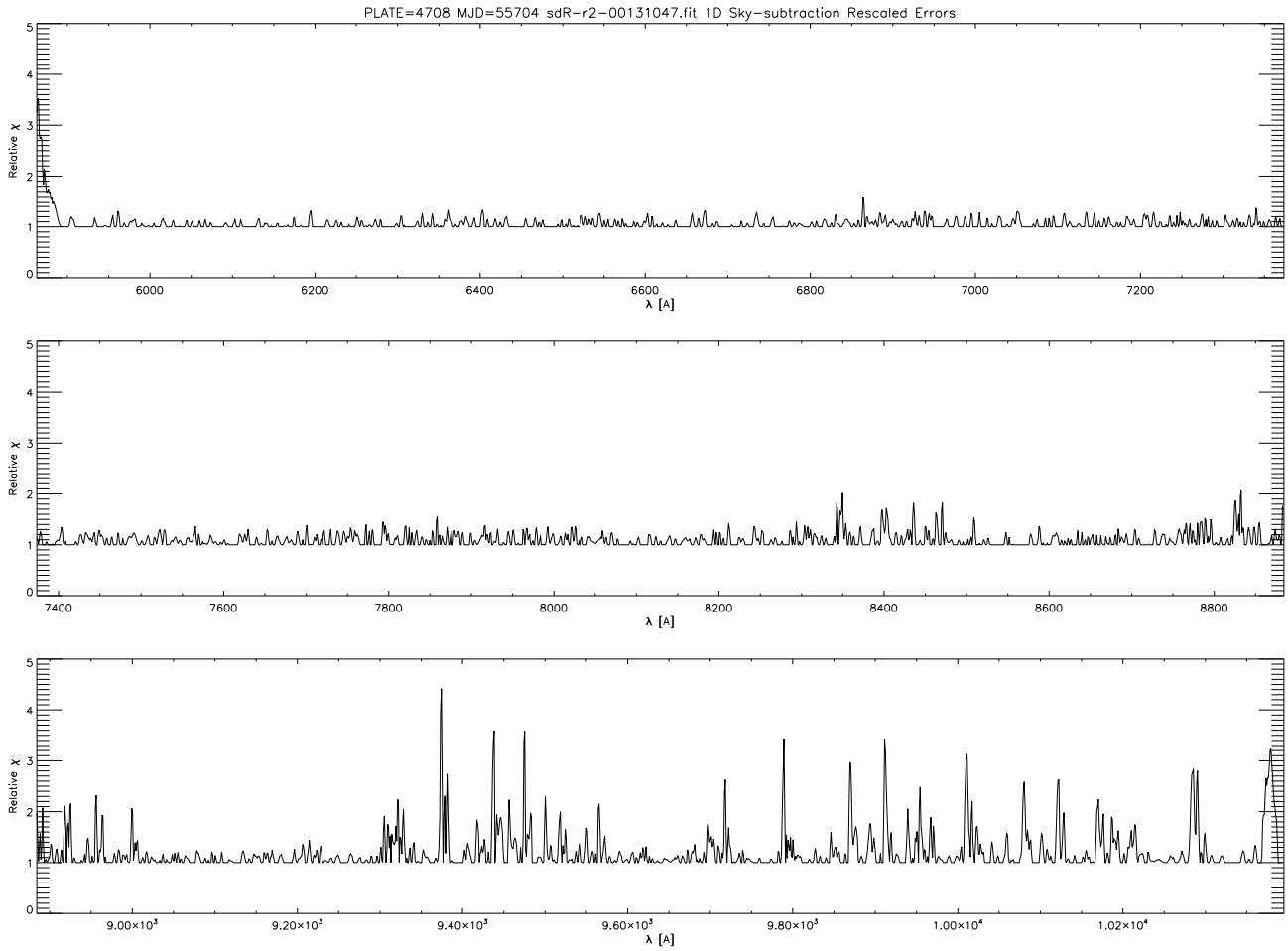

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

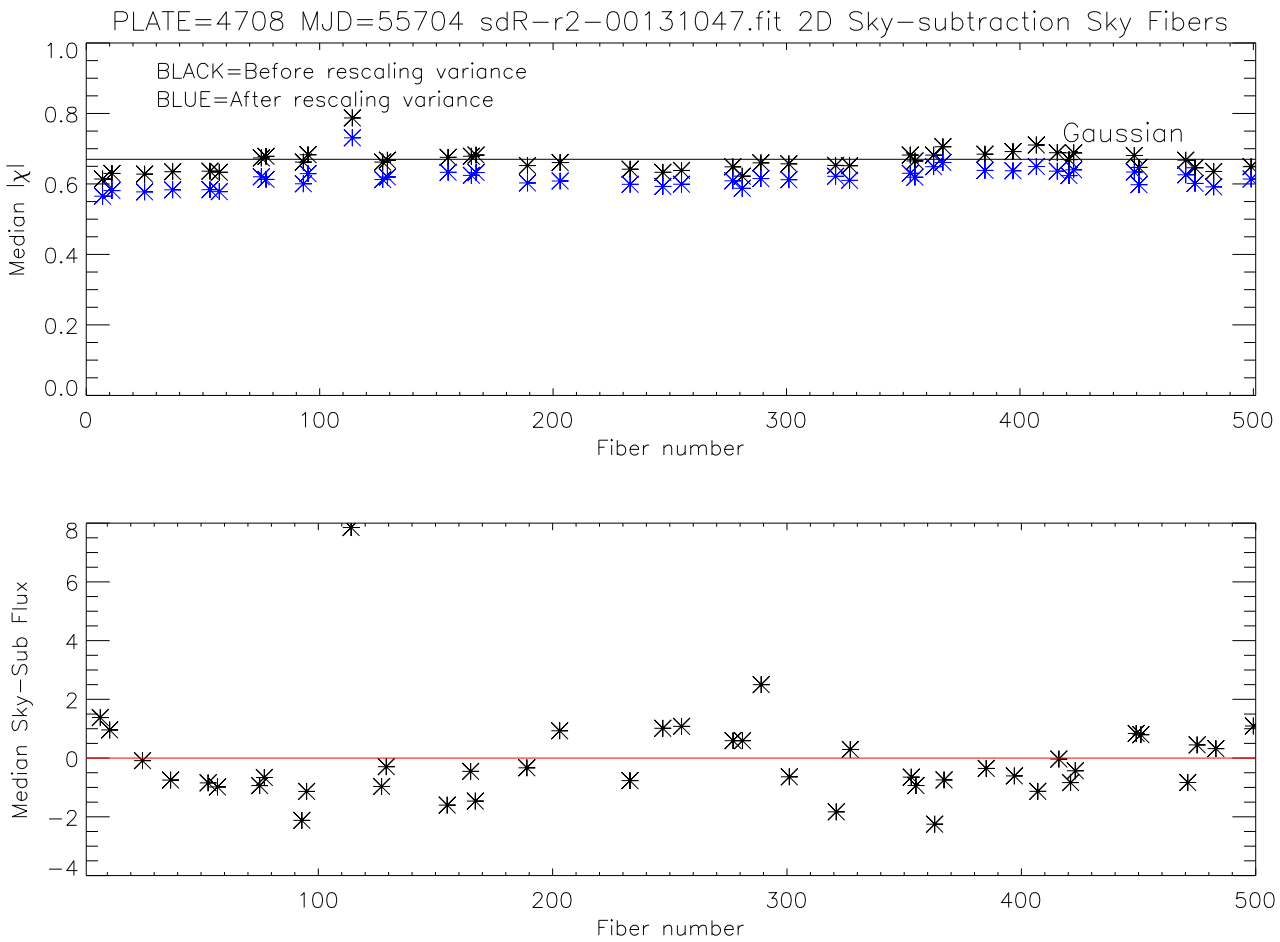
Median Sky-Sub Flux
Fiber number

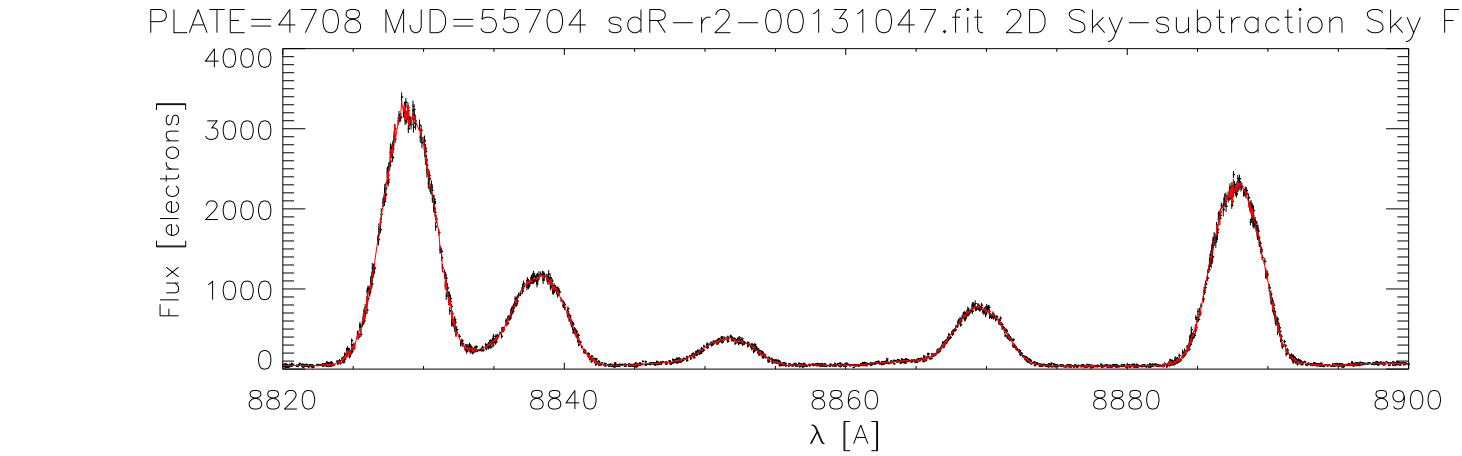

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

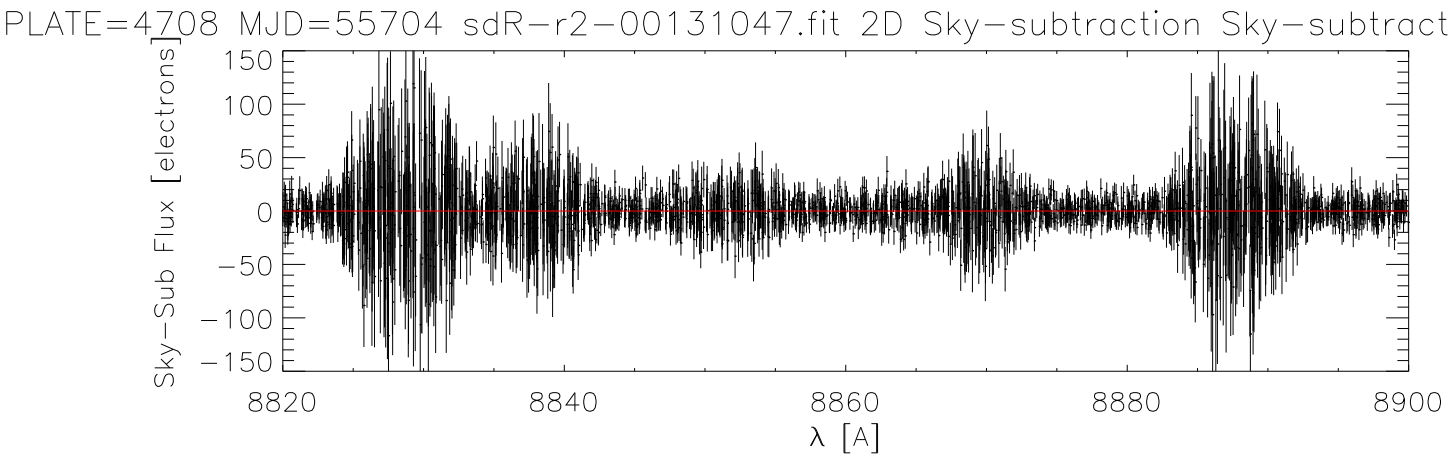

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 43

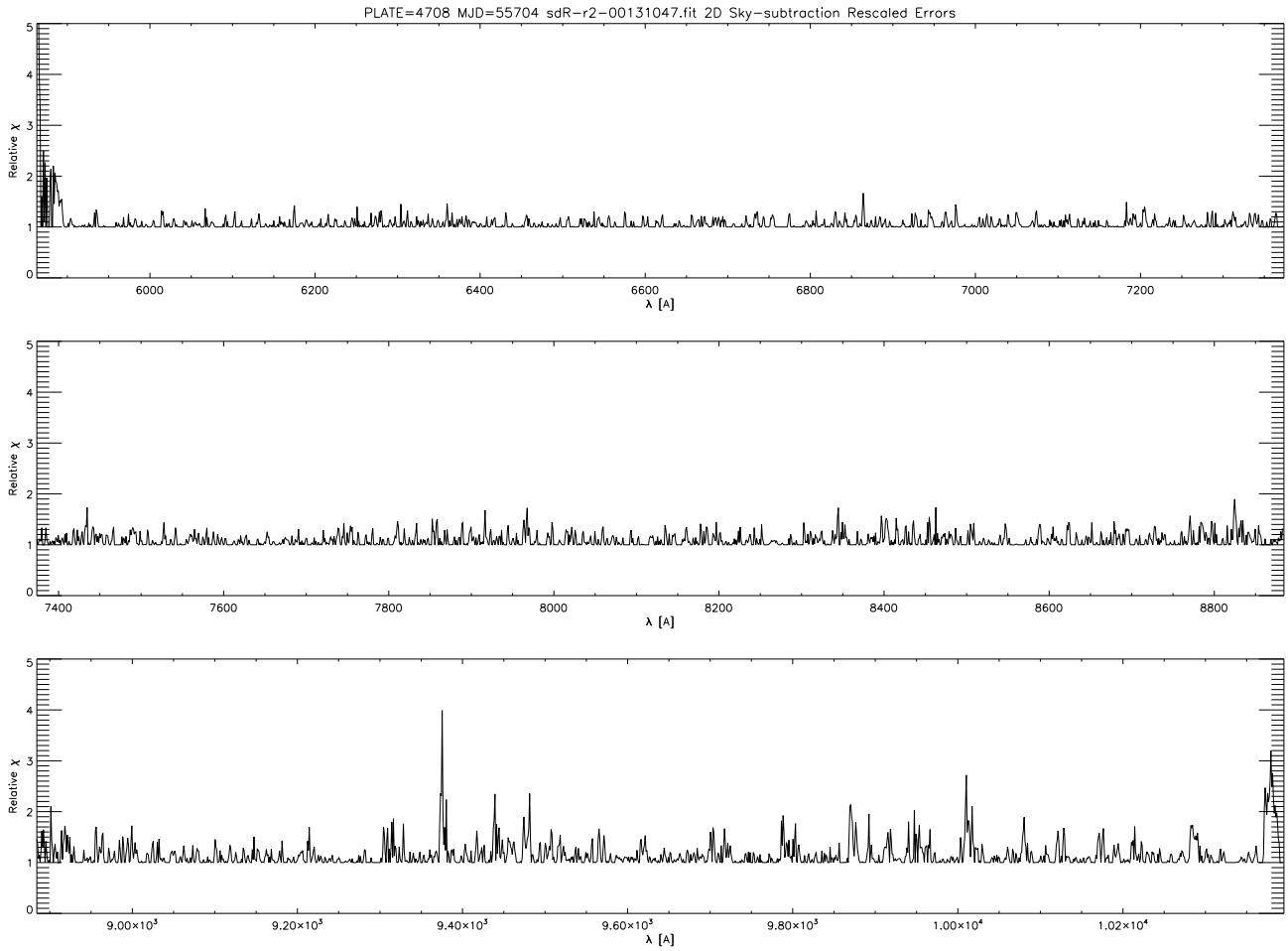


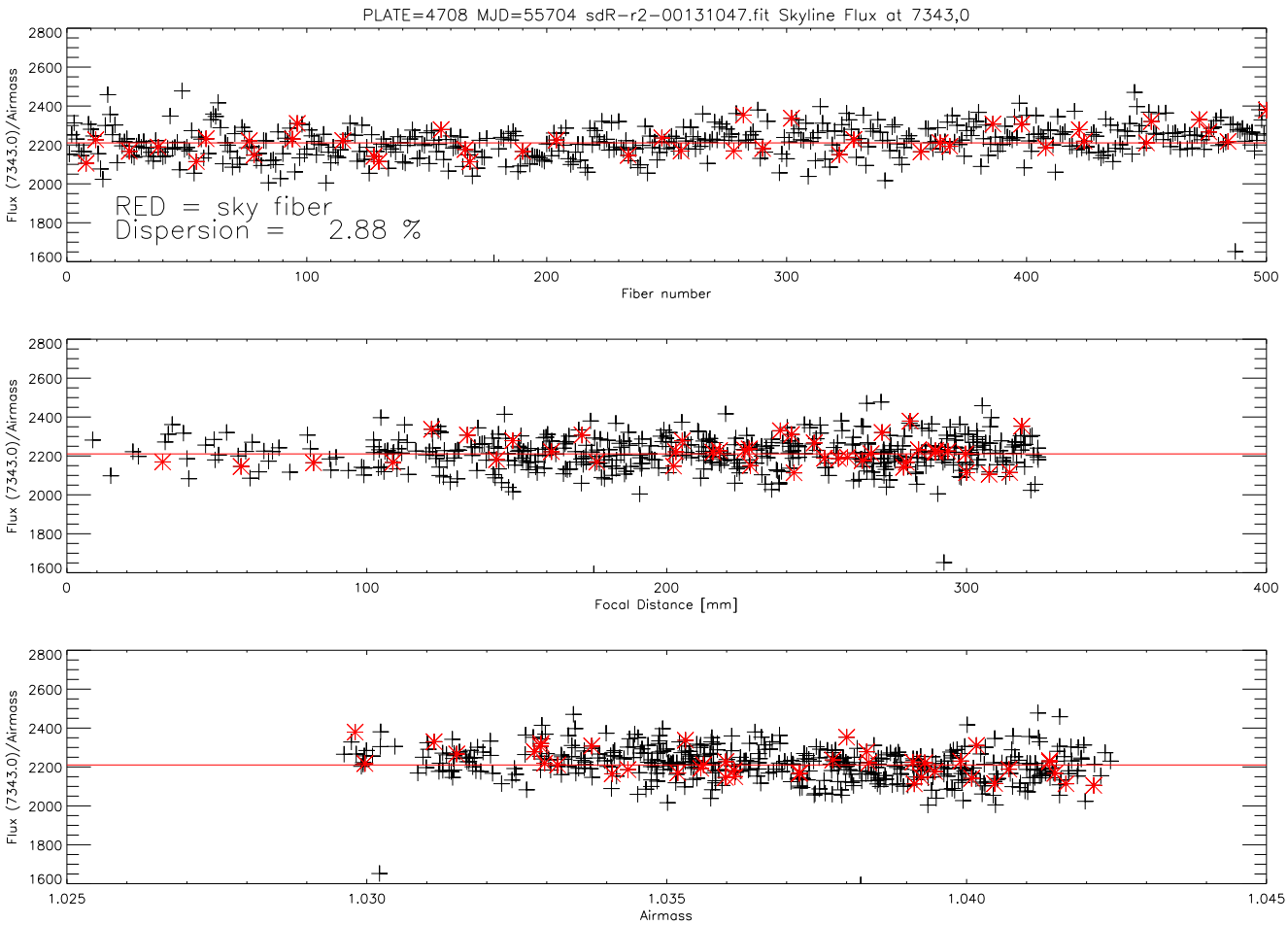

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

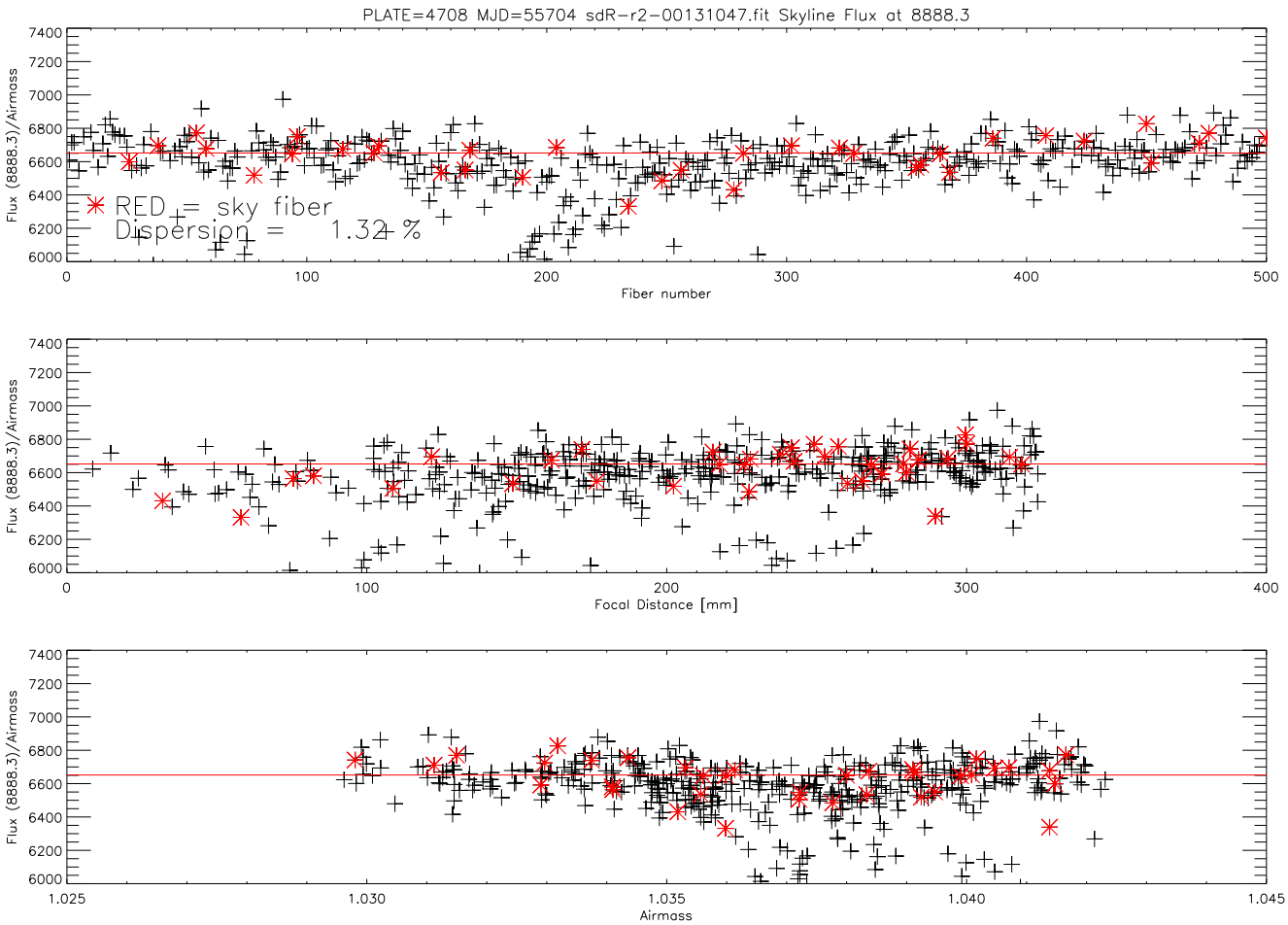

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

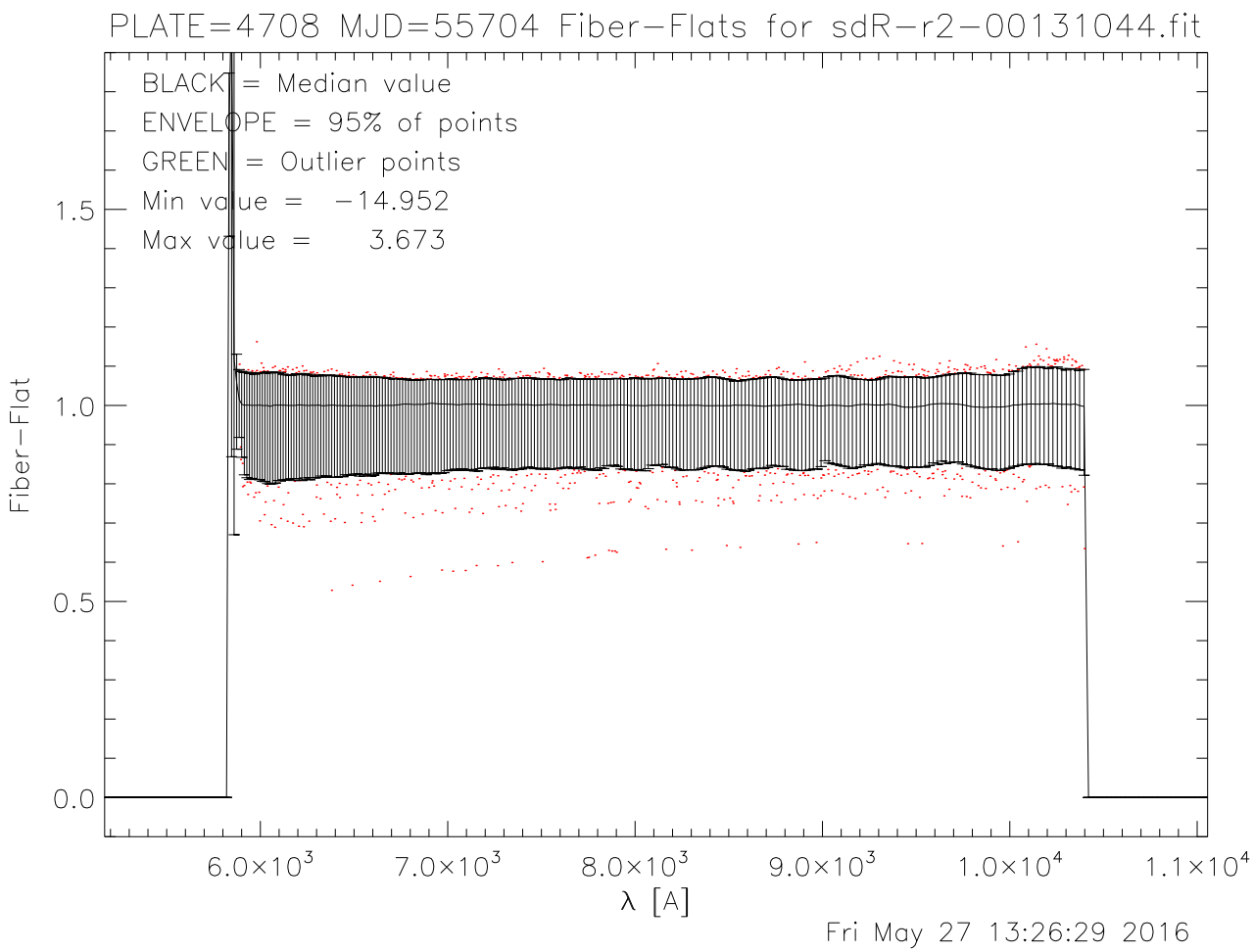

PLATE=4708 MJD=55704 sdR-r2-00131047.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

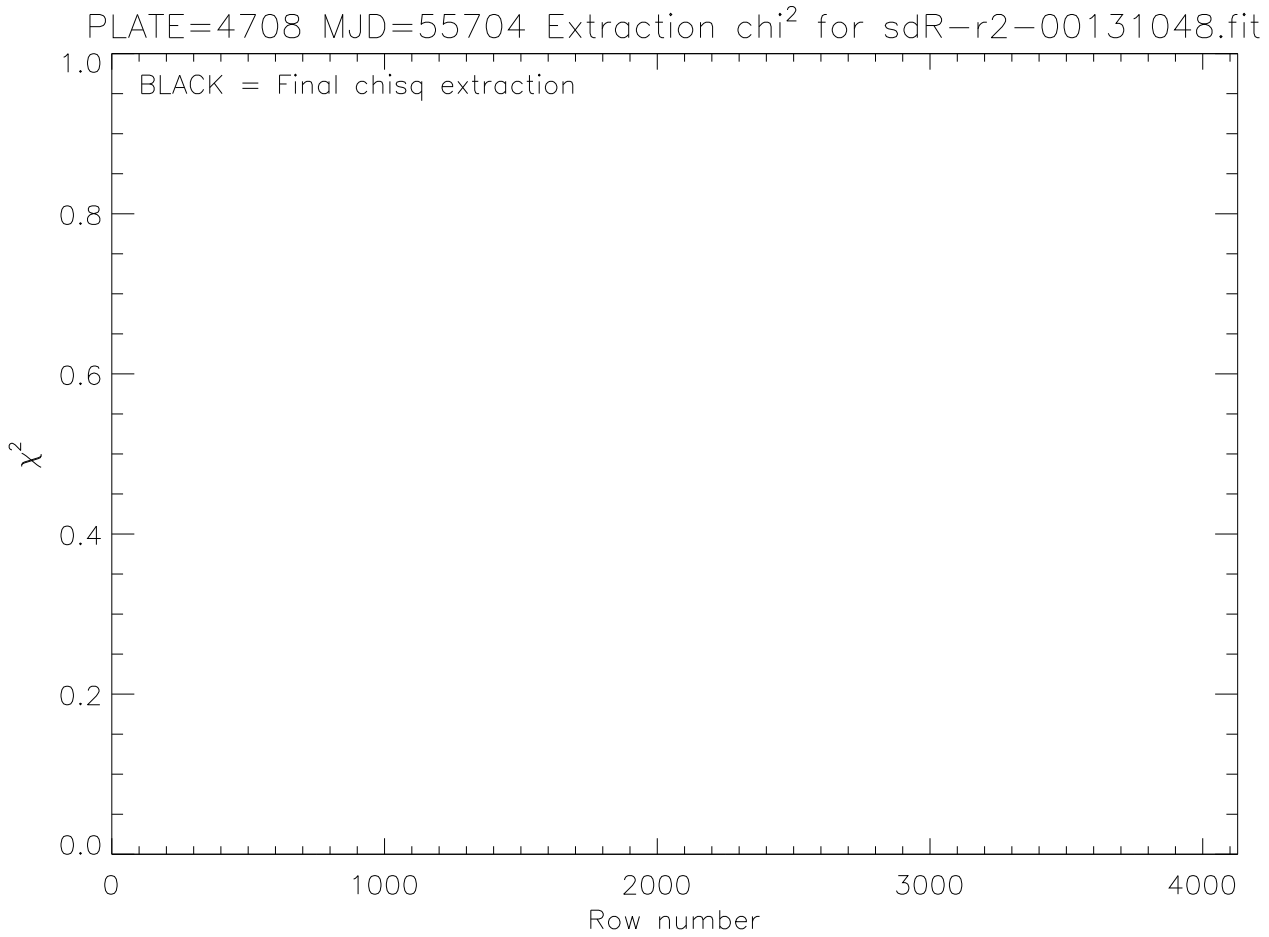
Number of sky fibers = 43

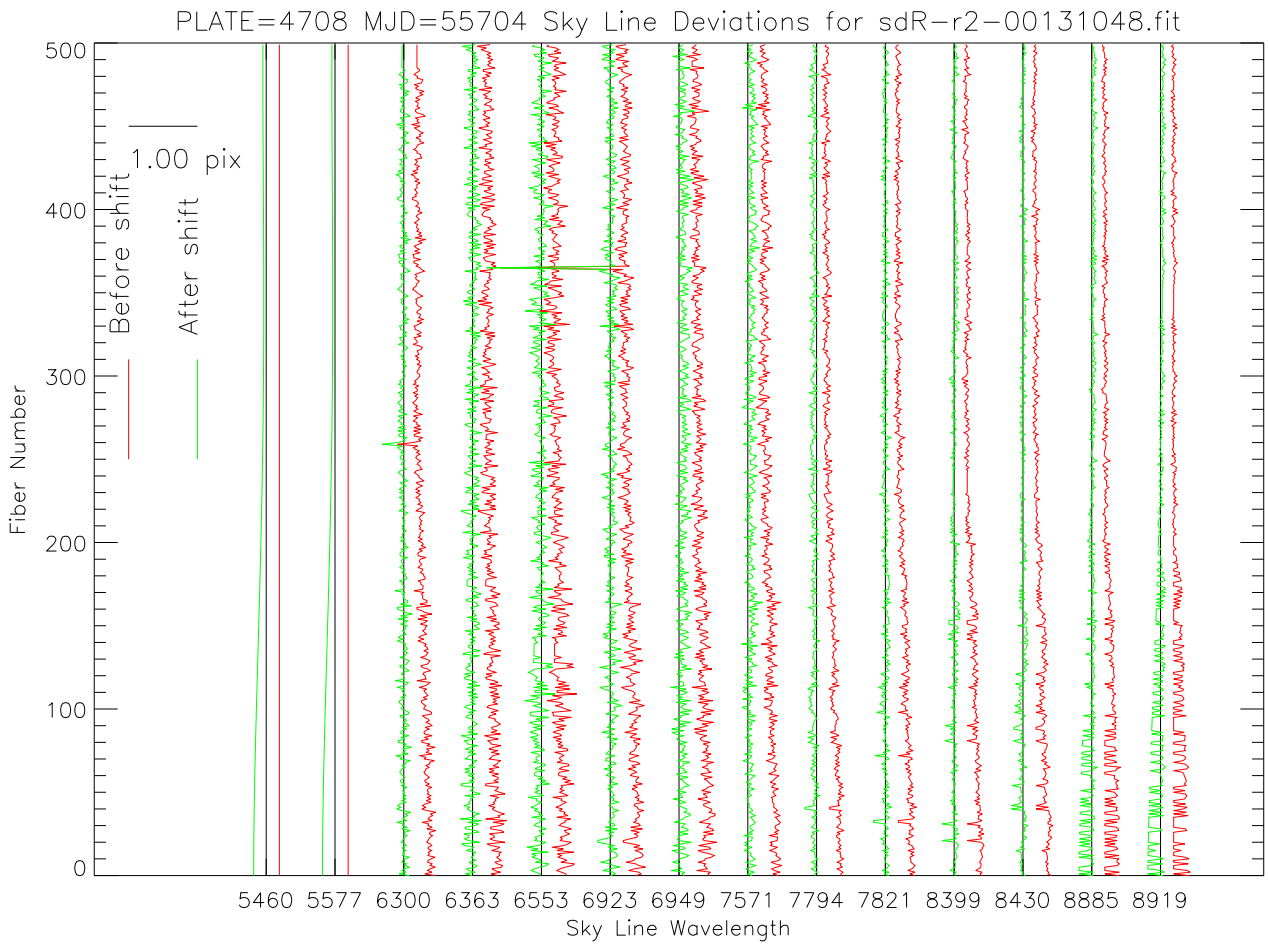


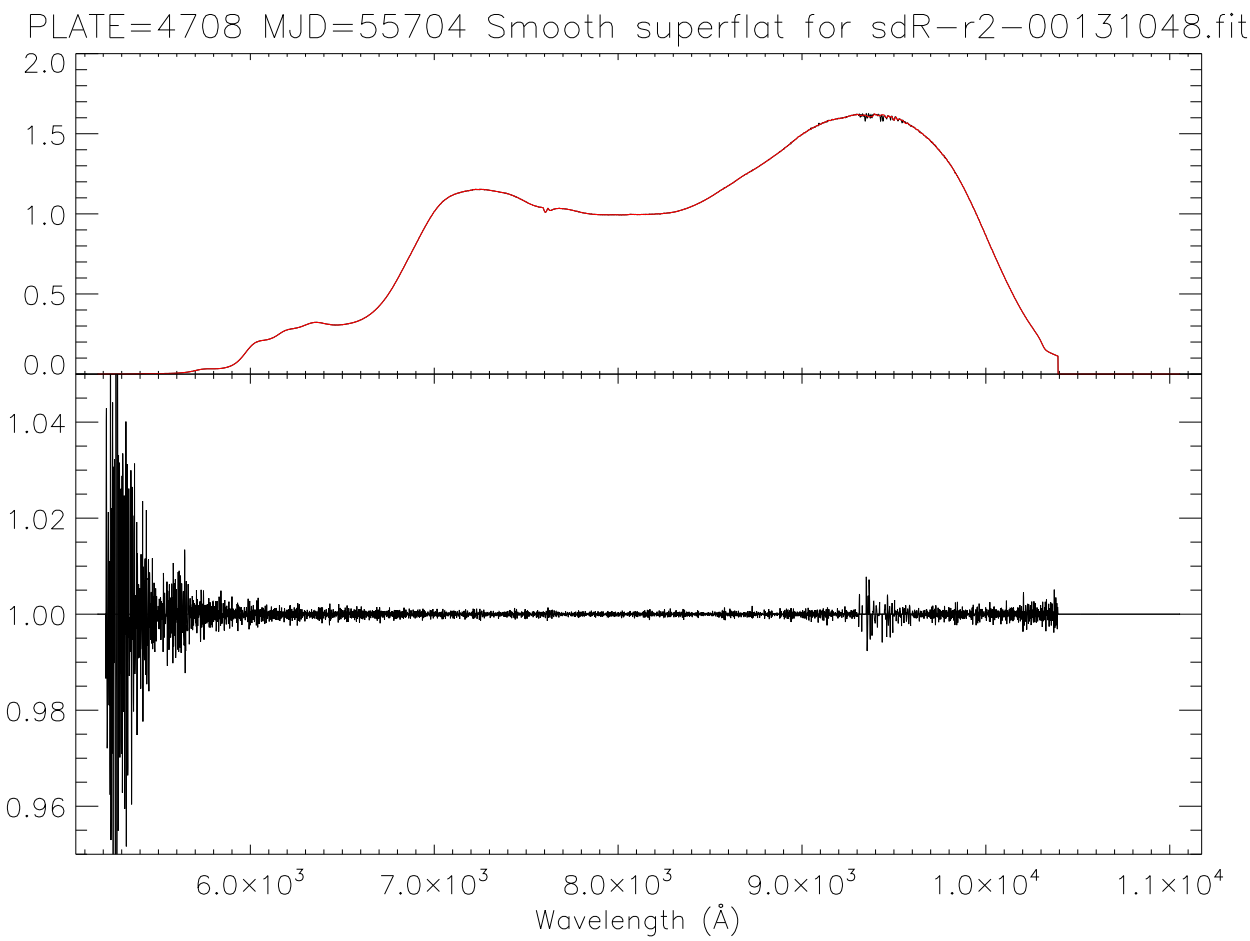

PLATE=4708 MJD=55704 sdR-r2-00131047.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.88 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

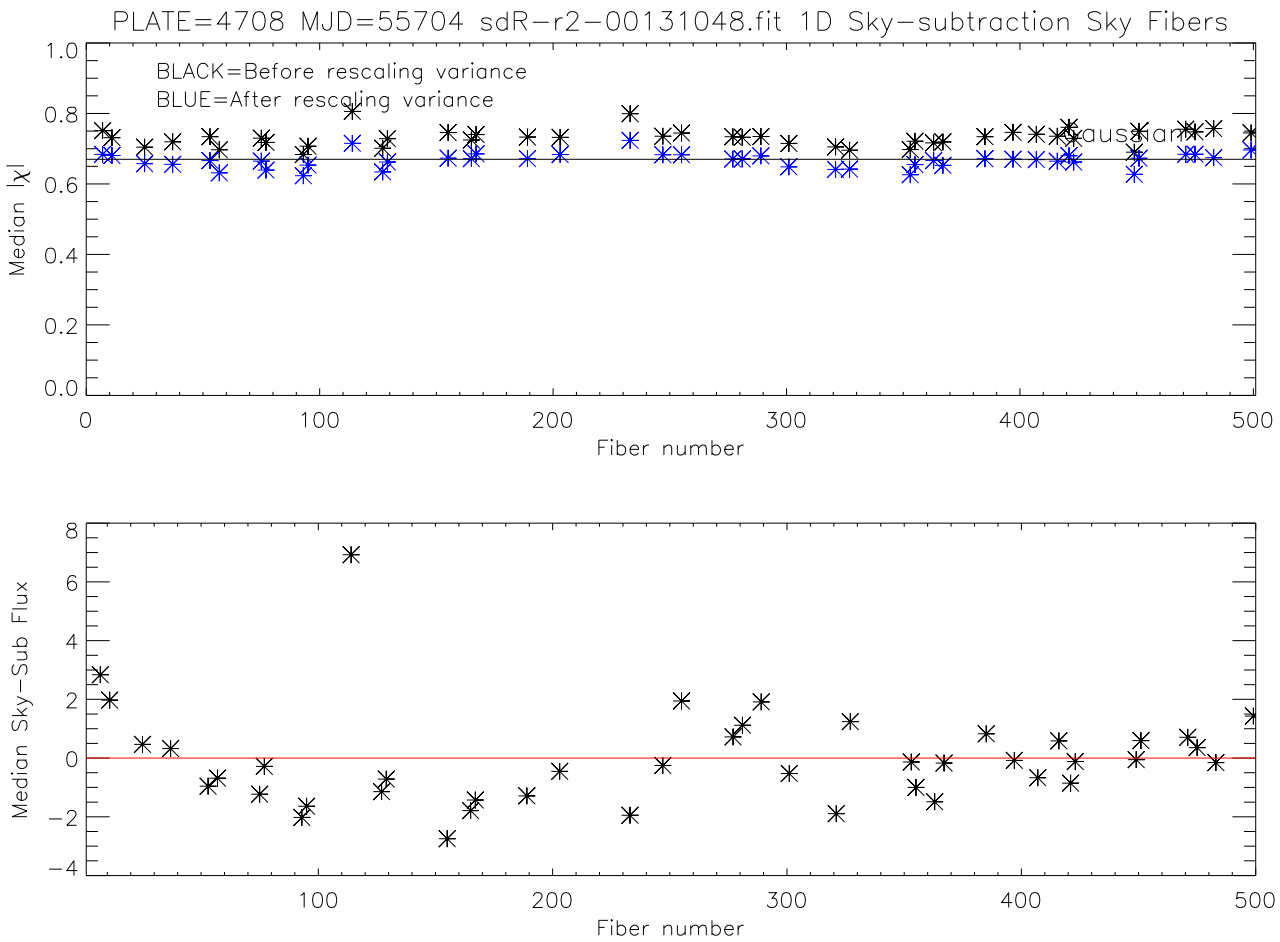

PLATE=4708 MJD=55704 sdR-r2-00131047.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.32 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=4708 MJD=55704 Fiber−Flats for sdR−r2−00131044.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −14.952
Max value = 3.673
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Fri May 27 13:26:29 2016

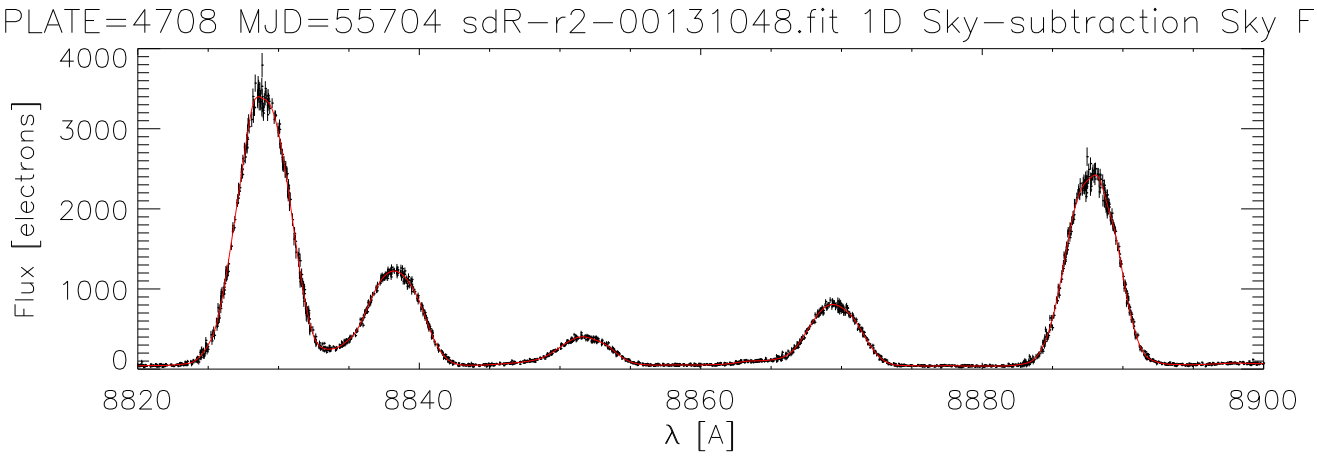

PLATE=4708 MJD=55704 Extraction chi^2 for sdR−r2−00131048.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

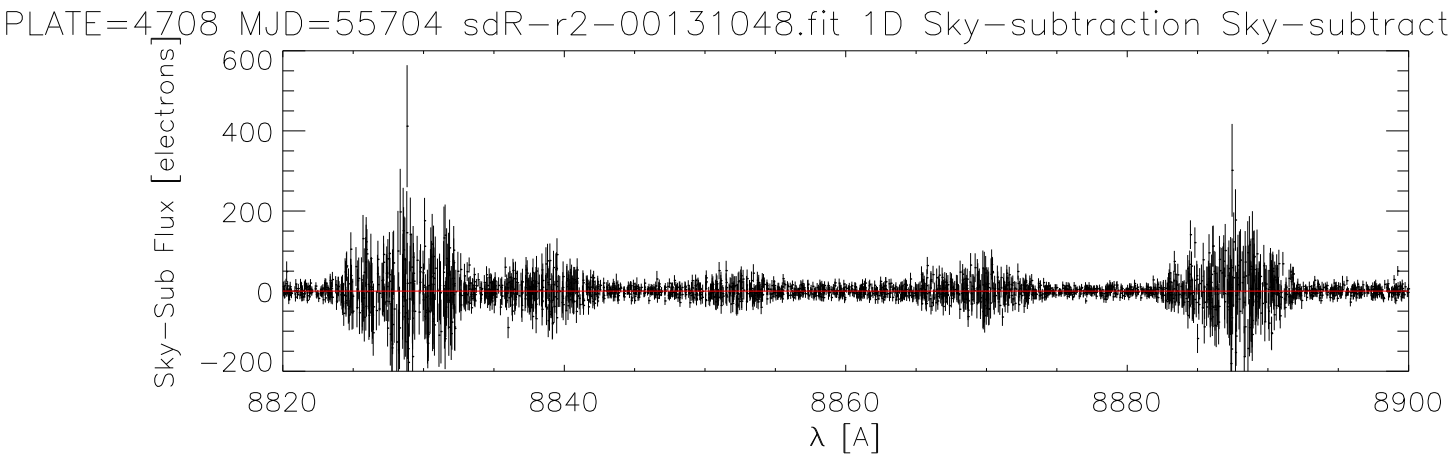

PLATE=4708 MJD=55704 Sky Line Deviations for sdR-r2-00131048.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4708 MJD=55704 Smooth superflat for sdR-r2-00131048.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

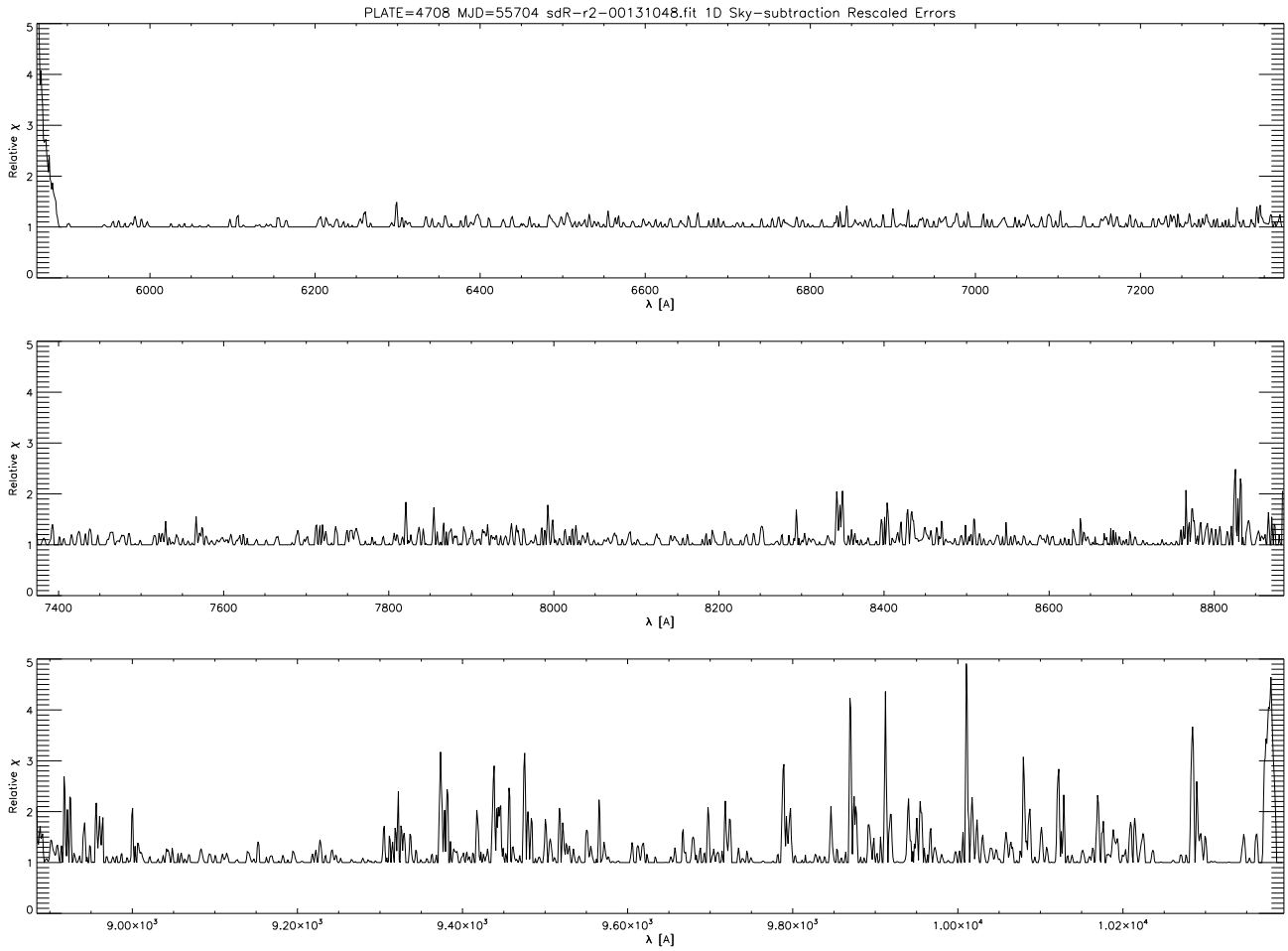

PLATE=4708 MJD=55704 sdR-r2-00131048.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

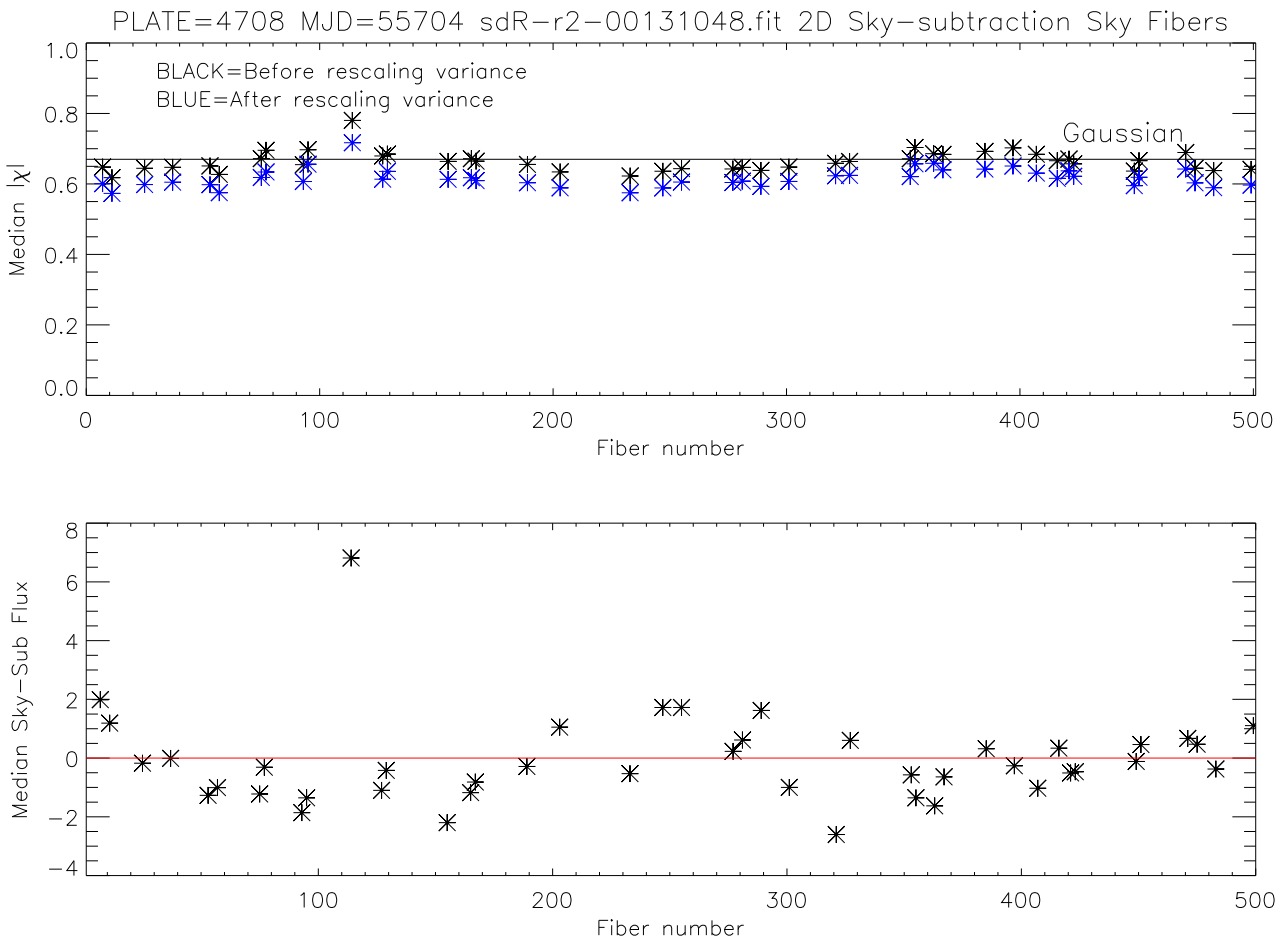
Median Sky-Sub Flux
Fiber number

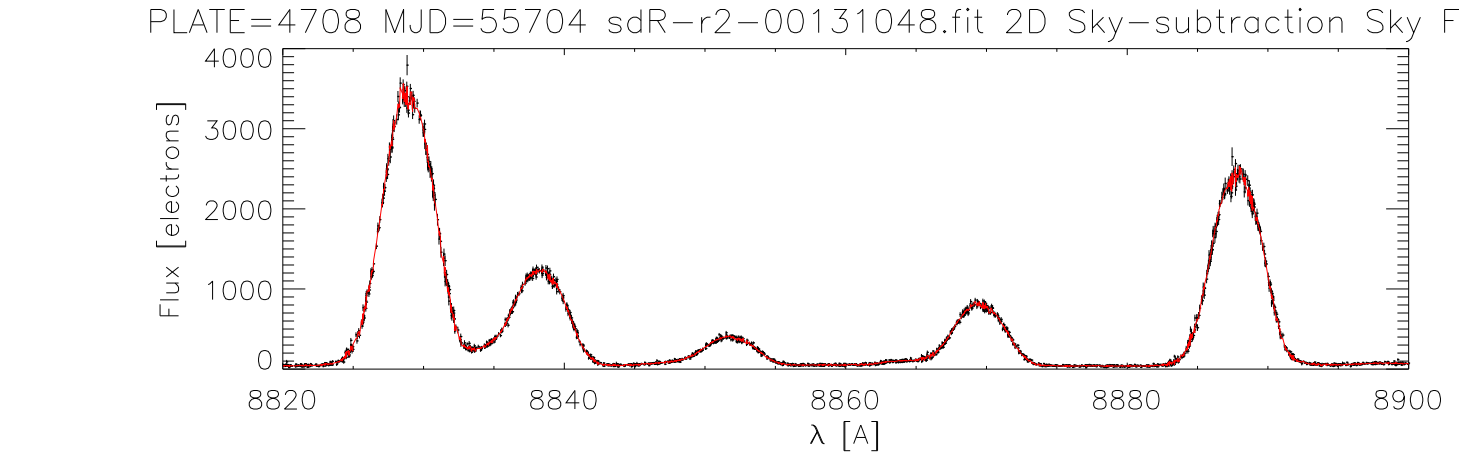

PLATE=4708 MJD=55704 sdR-r2-00131048.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

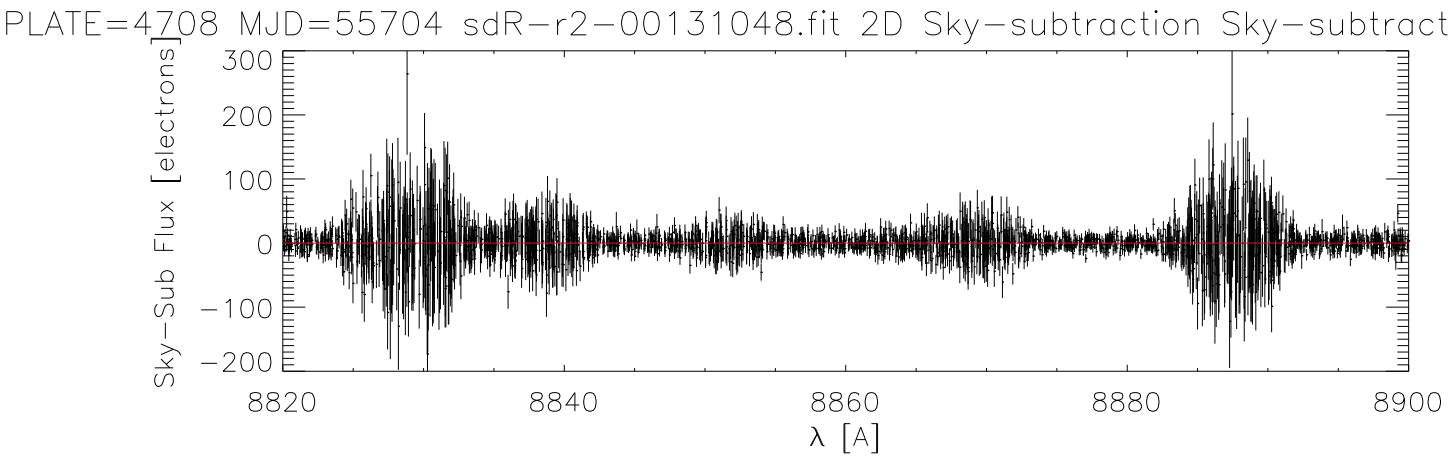

PLATE=4708 MJD=55704 sdR-r2-00131048.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 43

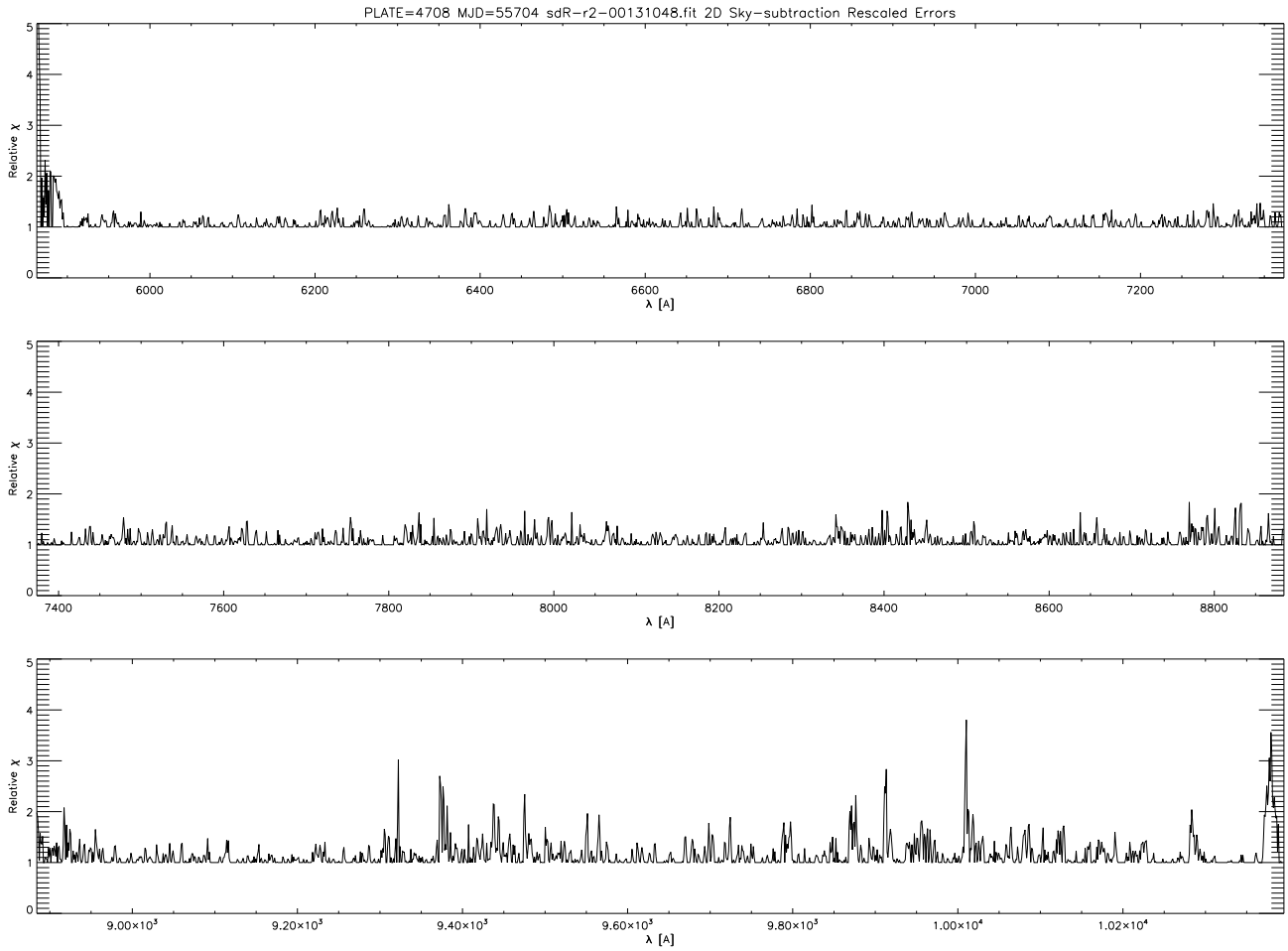


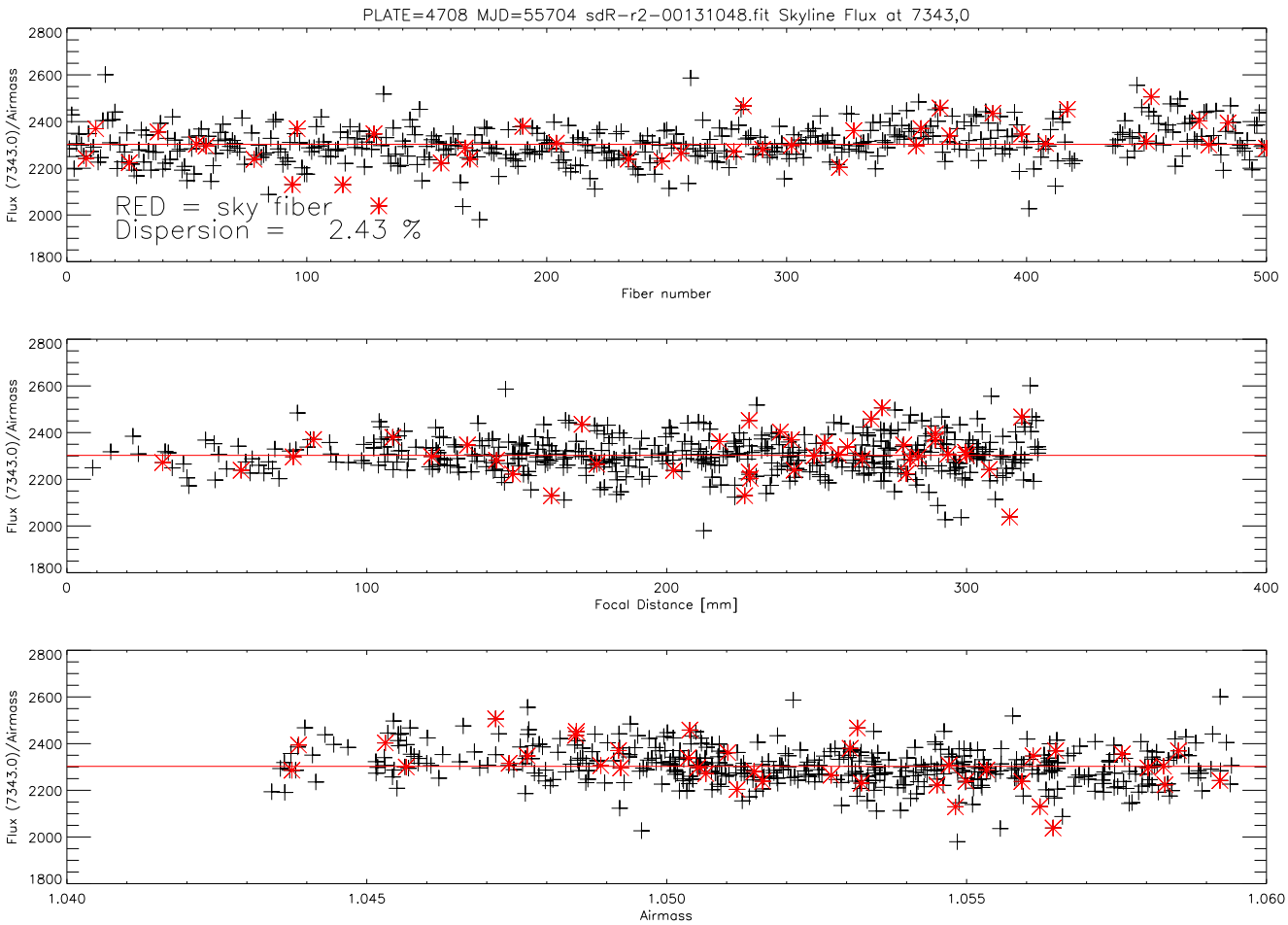

PLATE=4708 MJD=55704 sdR-r2-00131048.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

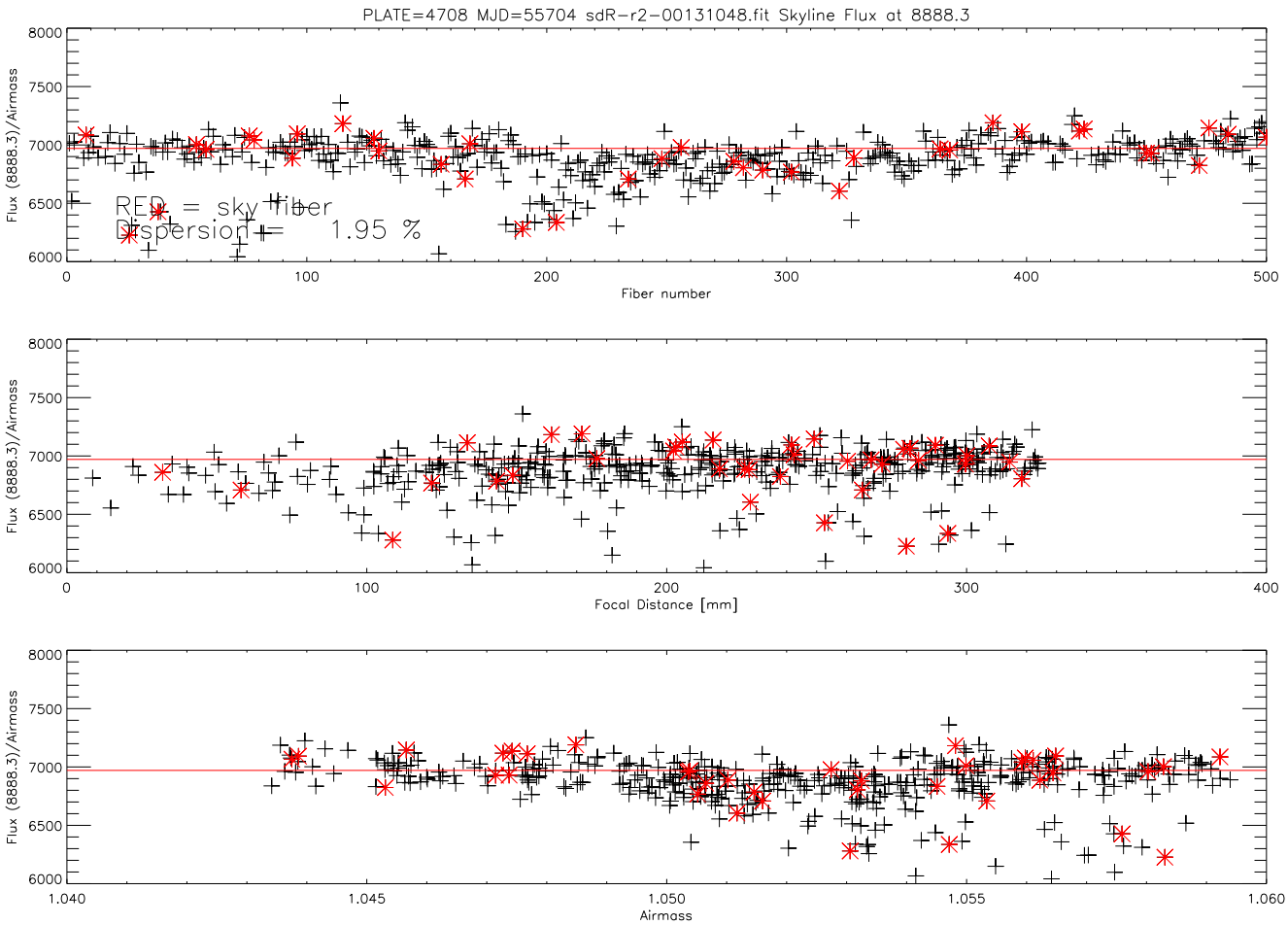

PLATE=4708 MJD=55704 sdR-r2-00131048.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4708 MJD=55704 sdR-r2-00131048.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 43




PLATE=4708 MJD=55704 sdR-r2-00131048.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=4708 MJD=55704 sdR-r2-00131048.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.95 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass