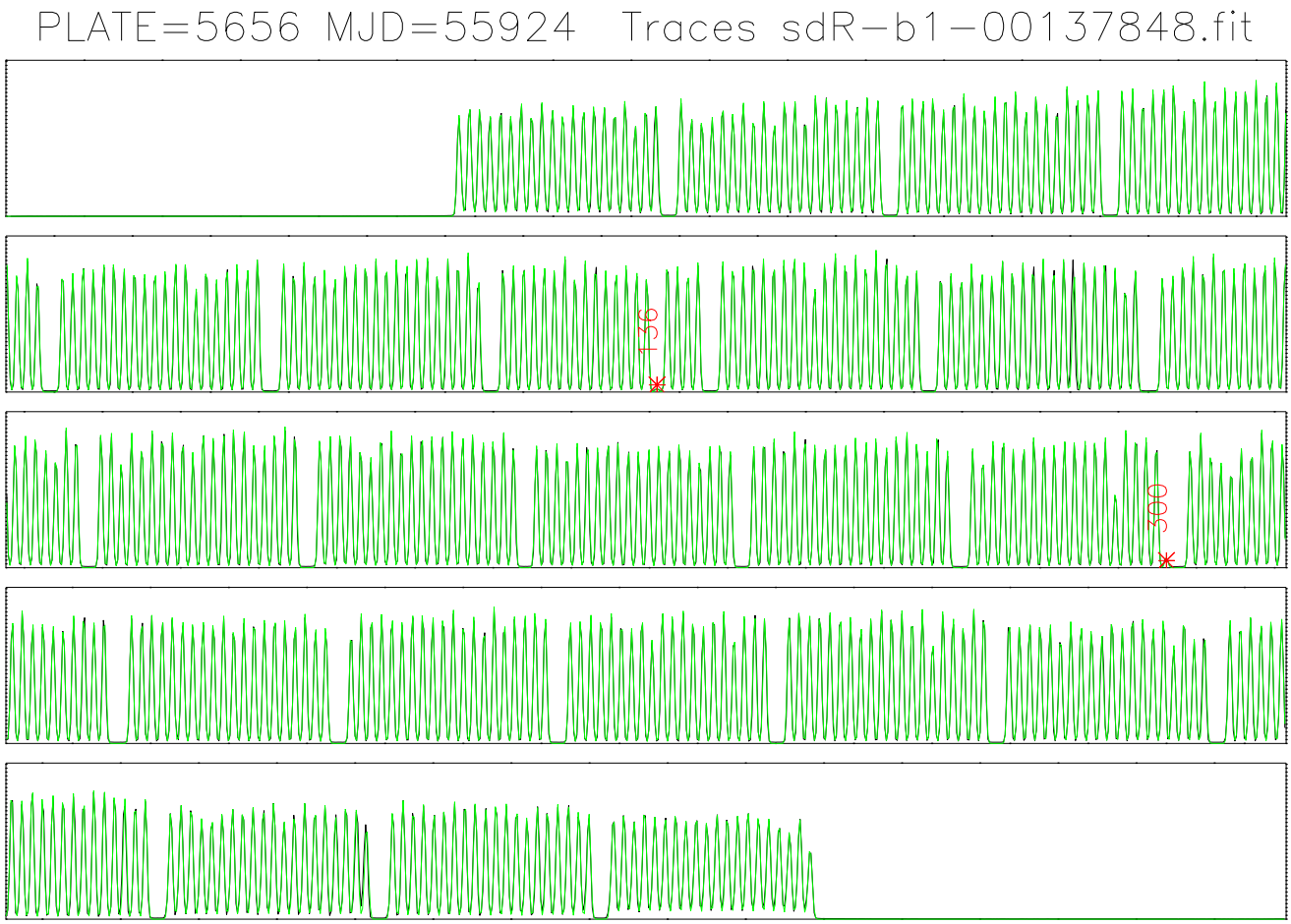
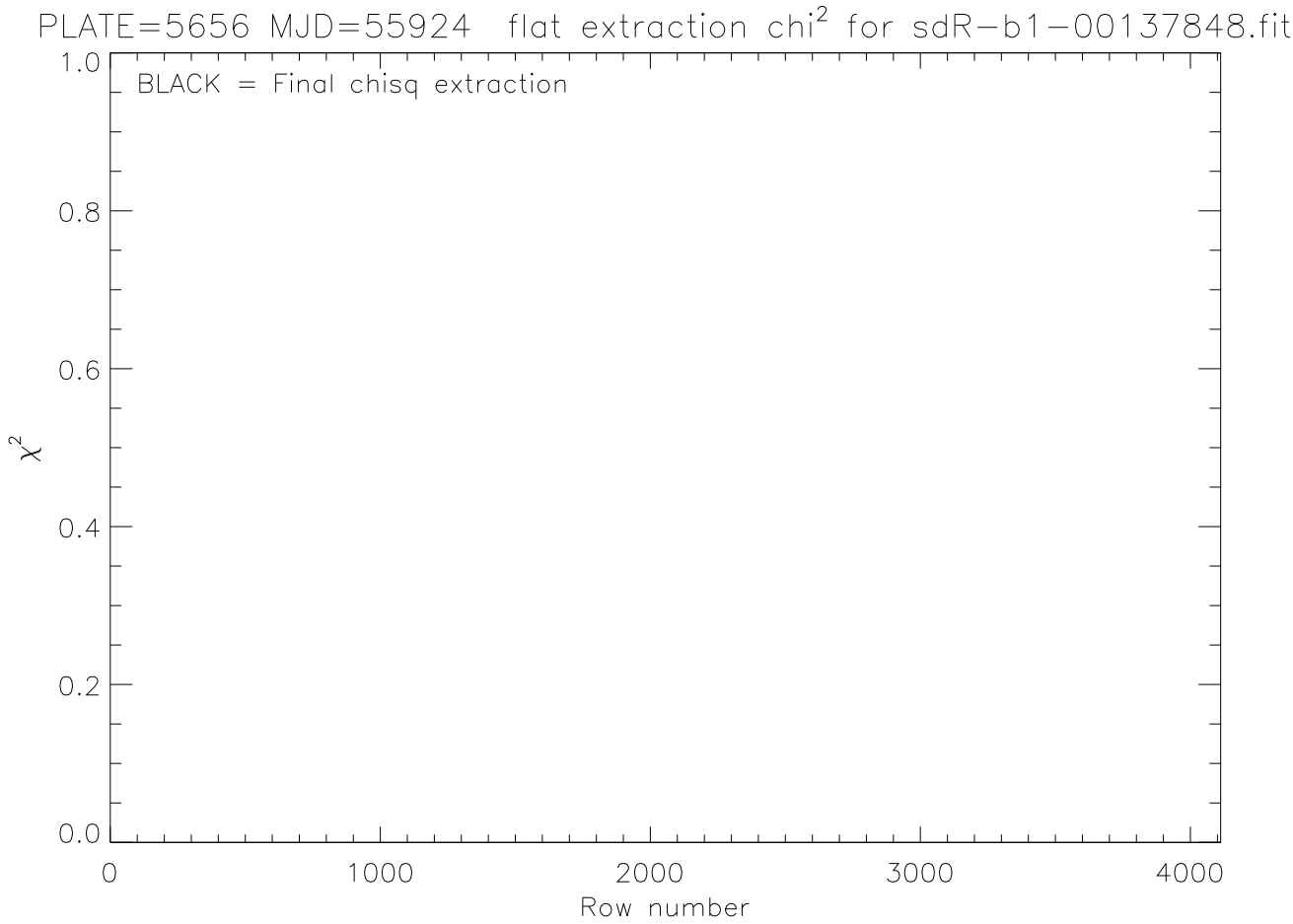
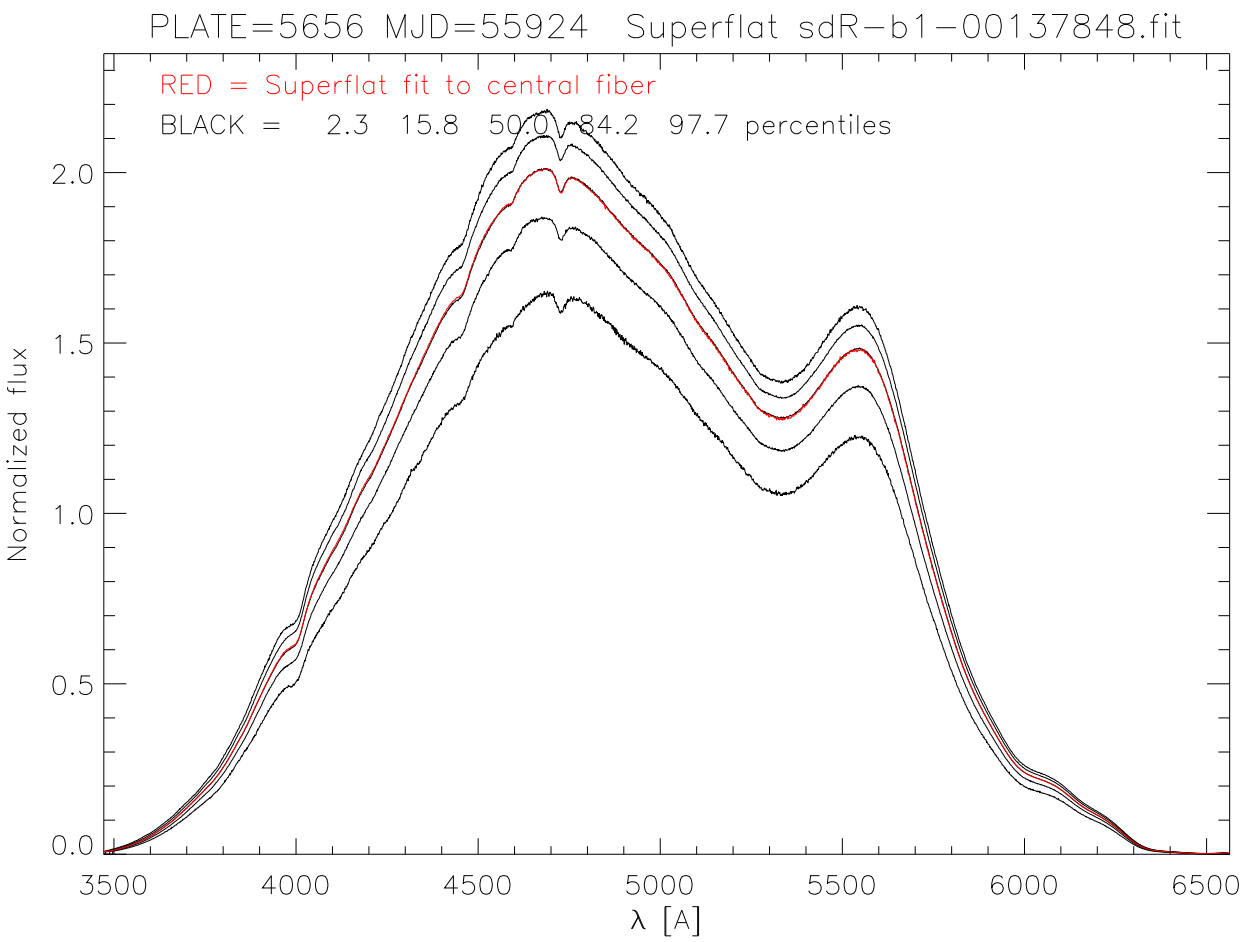
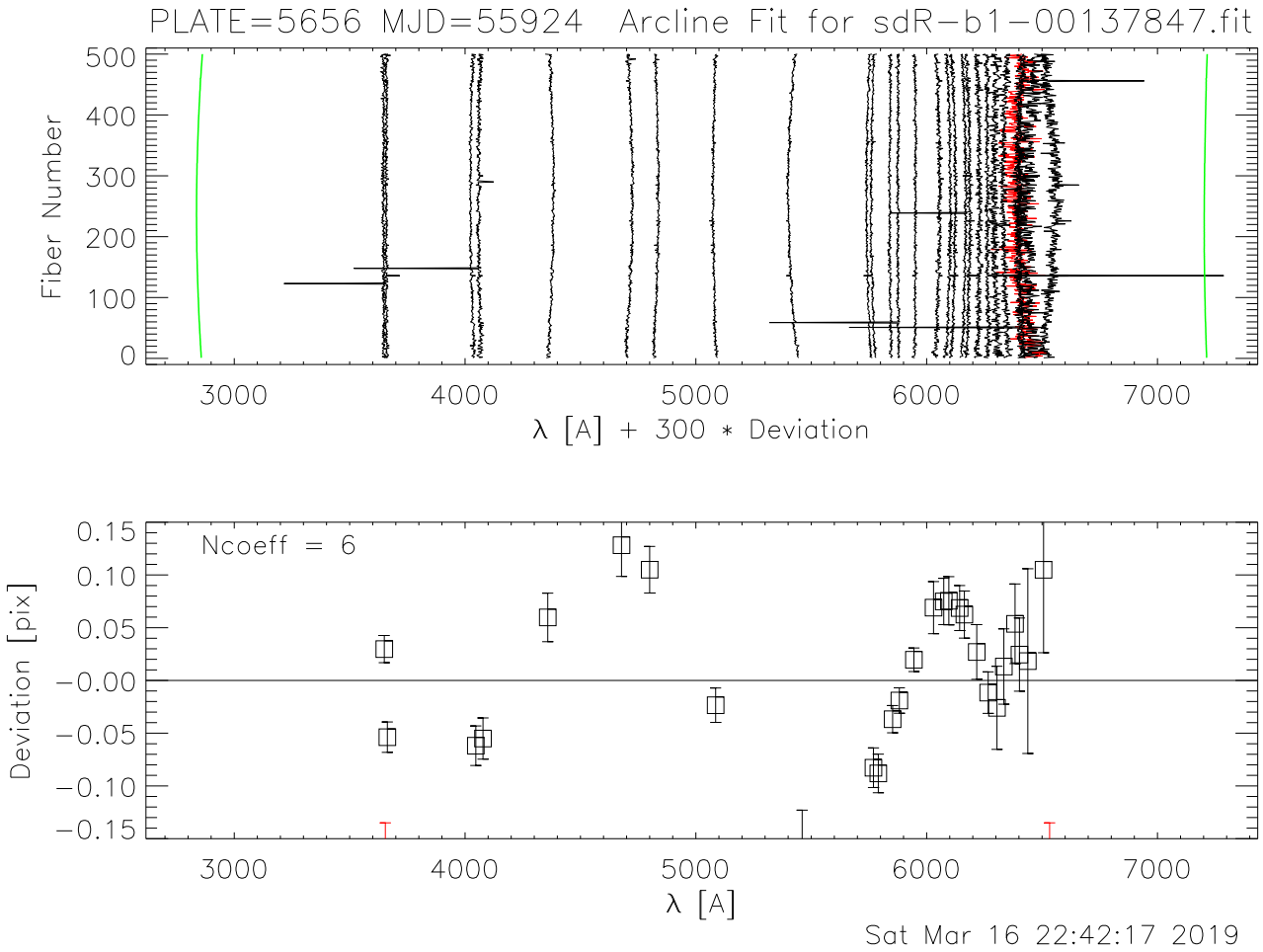
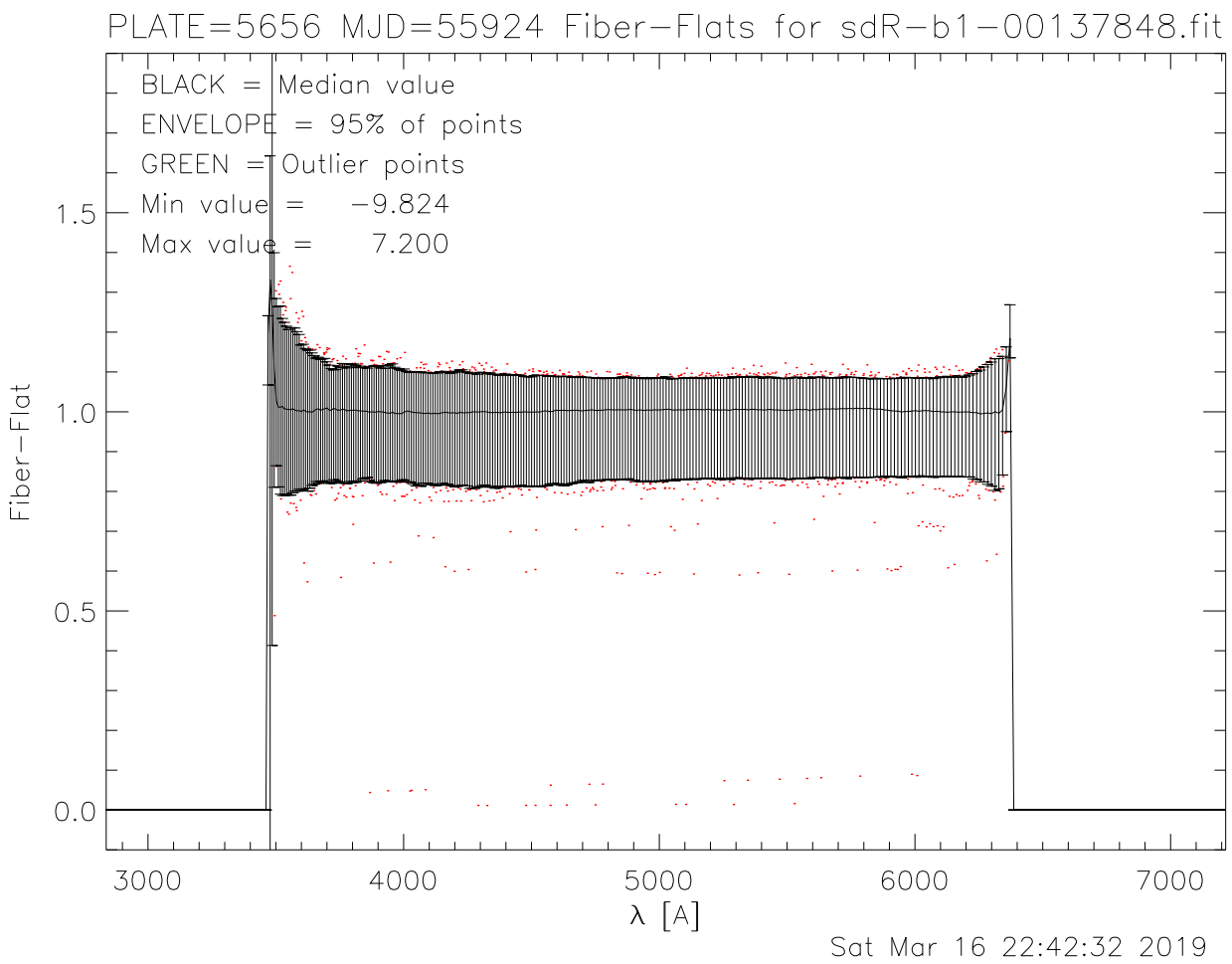
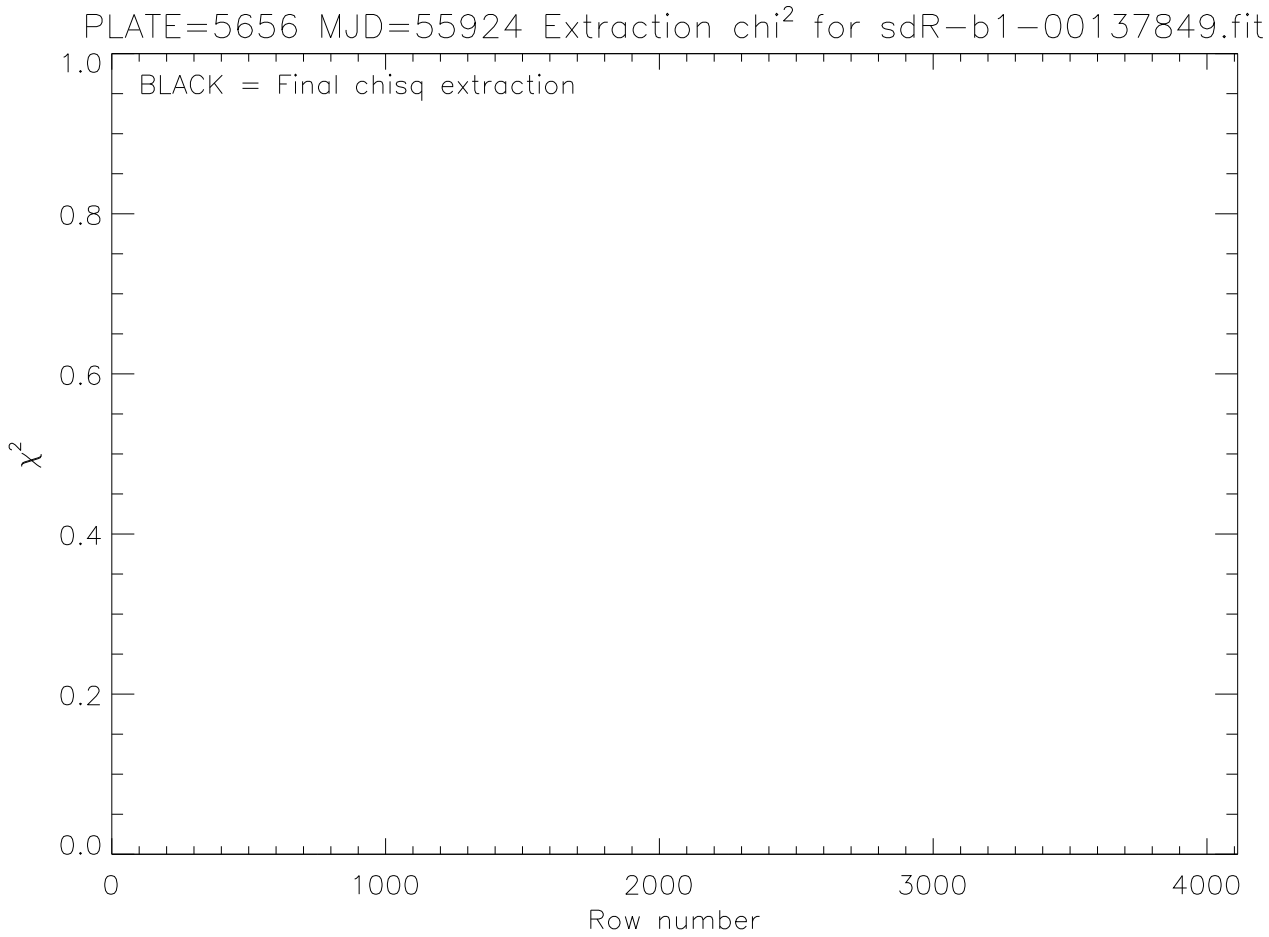

PLATE=5656 MJD=55924 Traces sdR-b1-00137848.fit
136
300

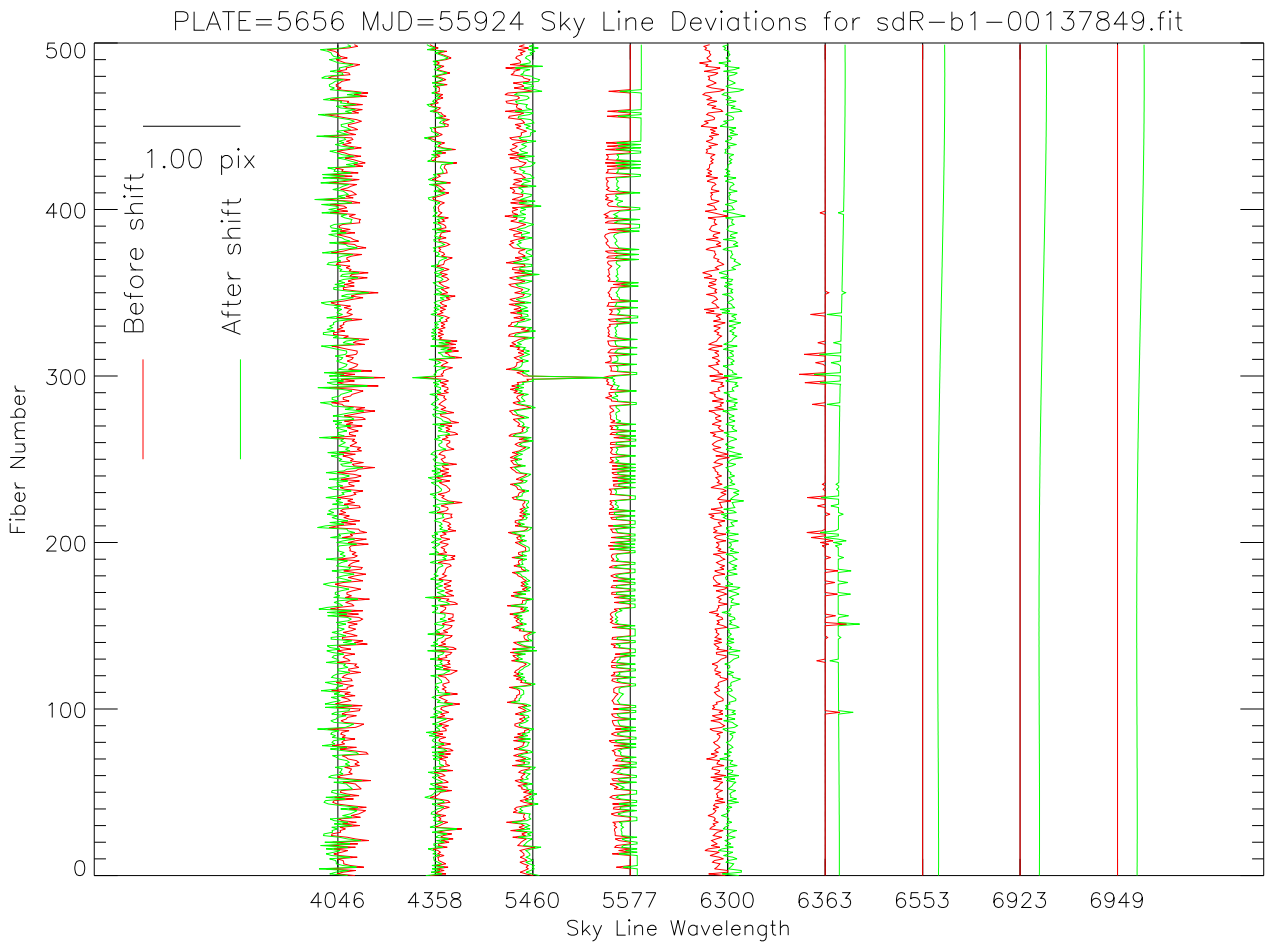

PLATE=5656 MJD=55924 flat extraction chi^2 for sdR−b1−00137848.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

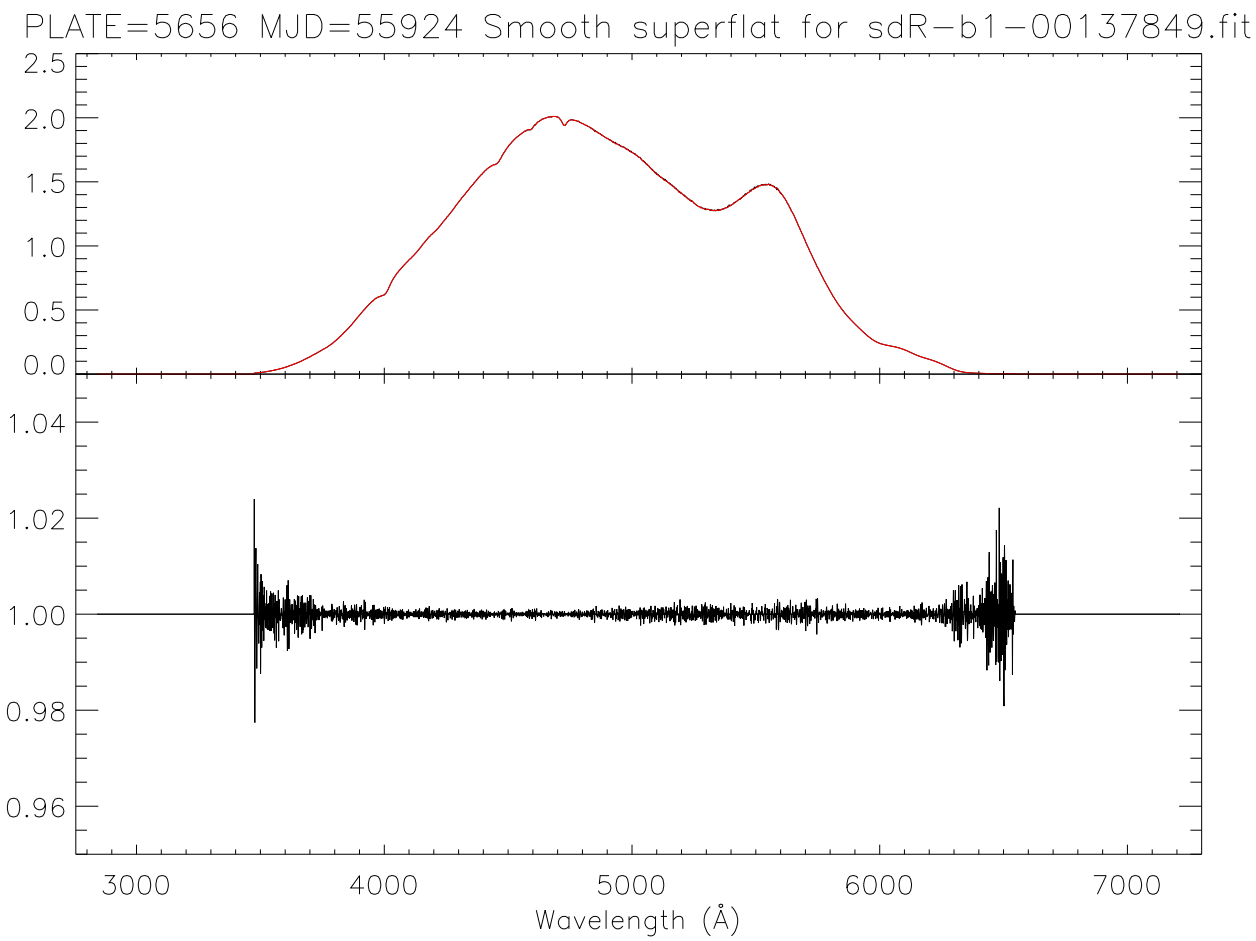

PLATE=5656 MJD=55924 Superflat sdR-b1-00137848.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

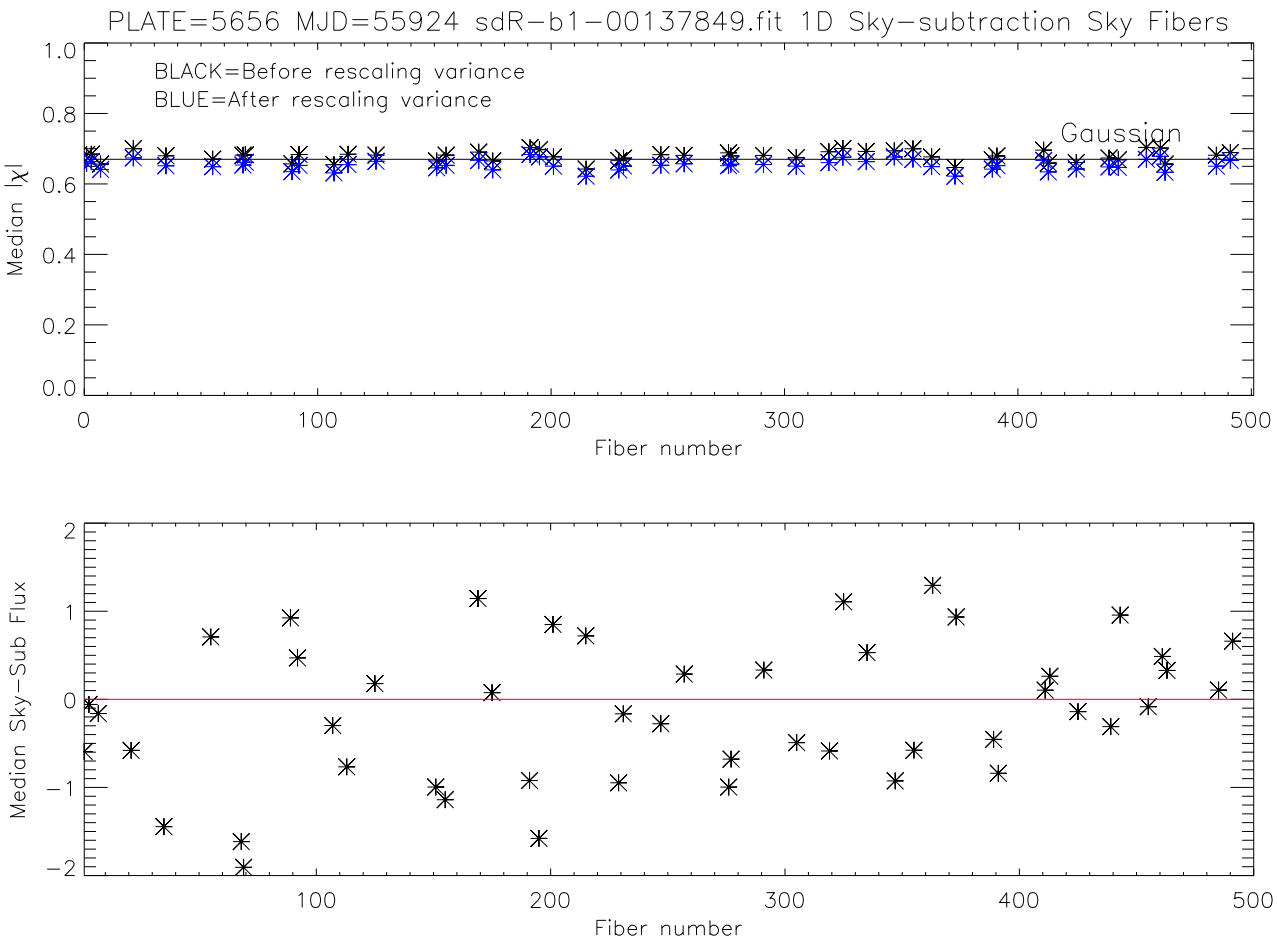

PLATE=5656 MJD=55924 Arcline Fit for sdR-b1-00137847.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 22:42:17 2019

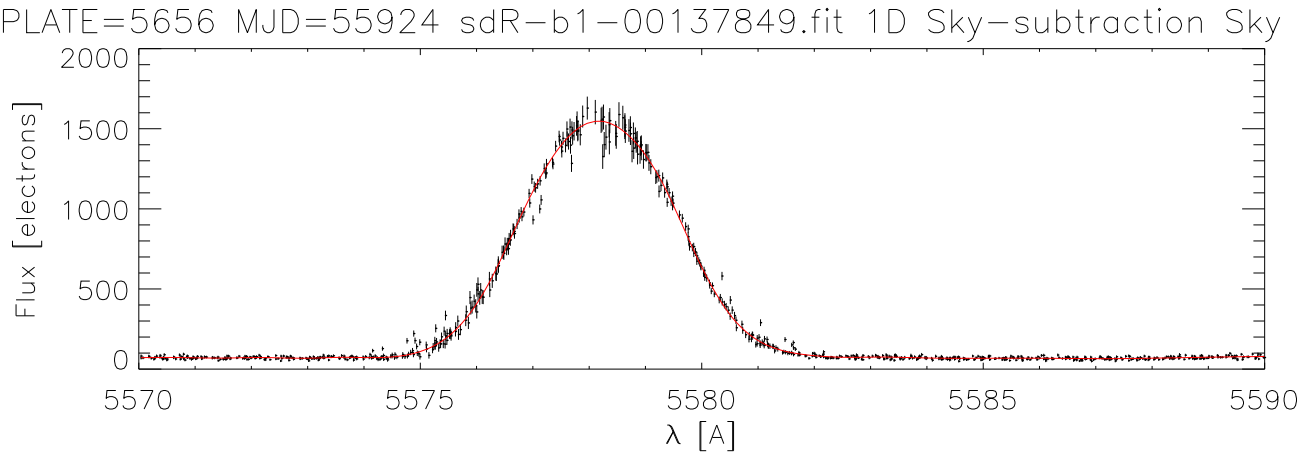

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b1-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -9.824
Max value = 7.200
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 22:42:32 2019

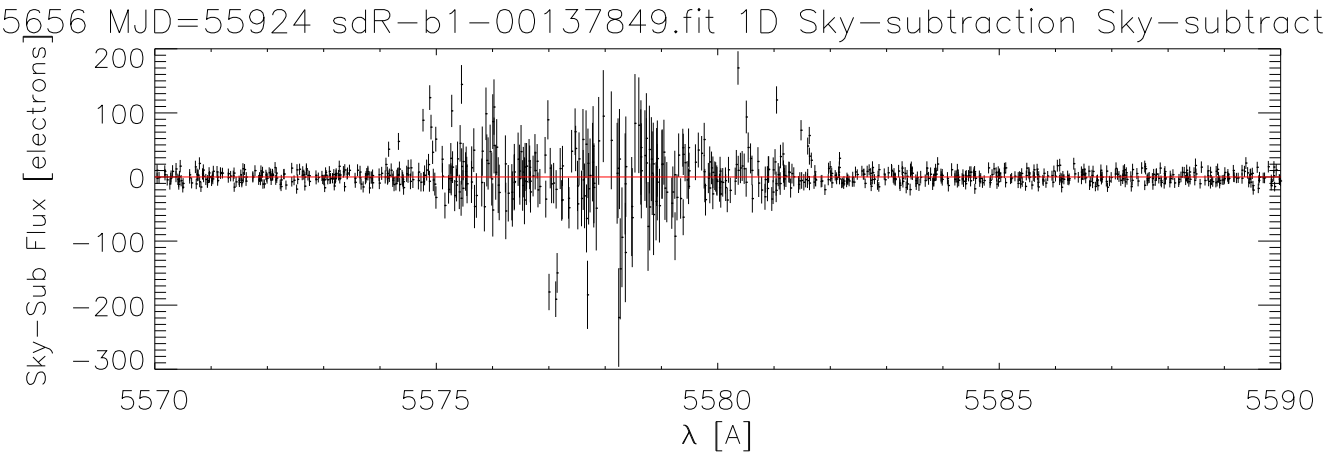

PLATE=5656 MJD=55924 Extraction chi^2 for sdR-b1-00137849.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b1-00137849.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

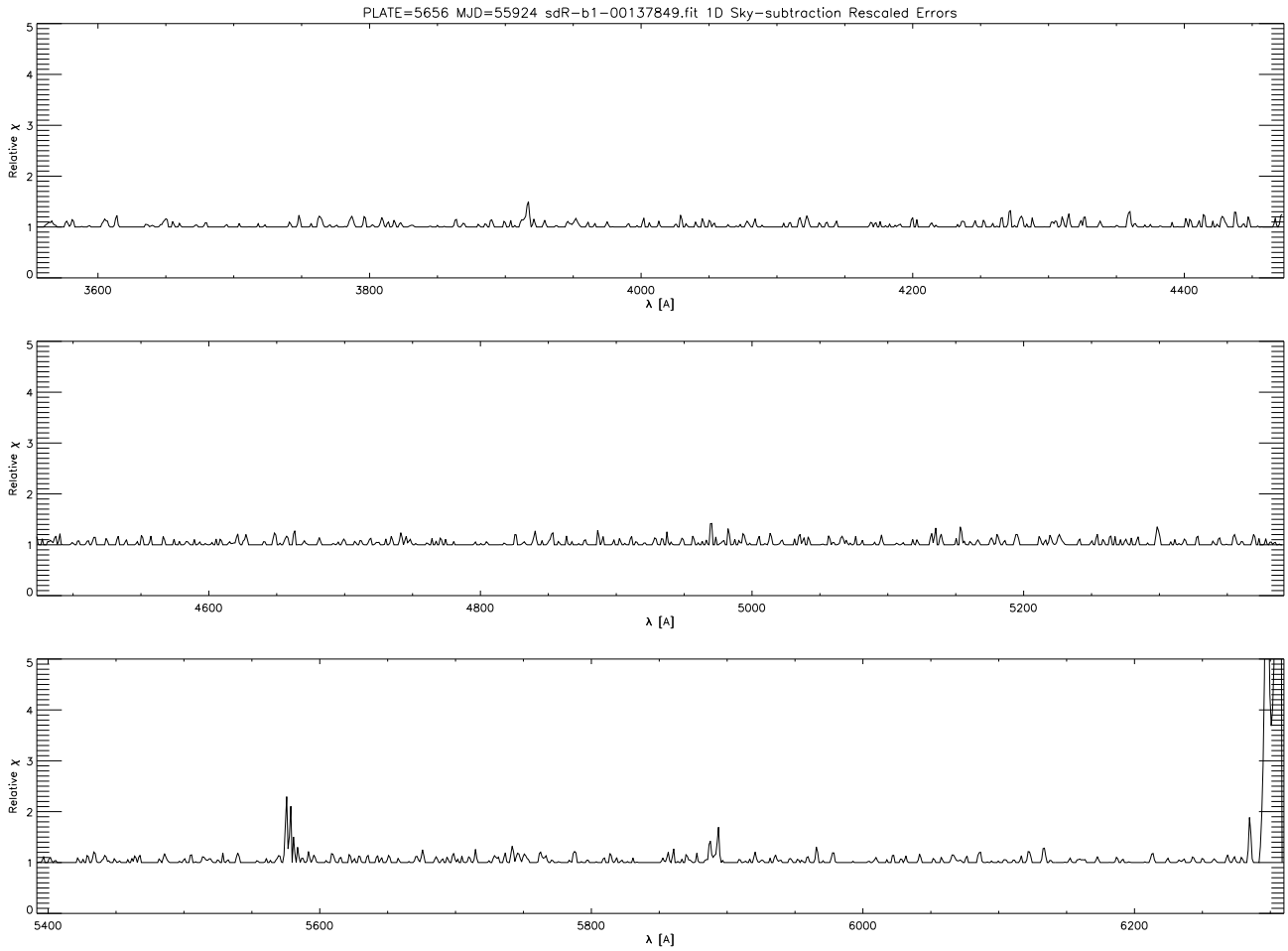

PLATE=5656 MJD=55924 Smooth superflat for sdR-b1-00137849.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

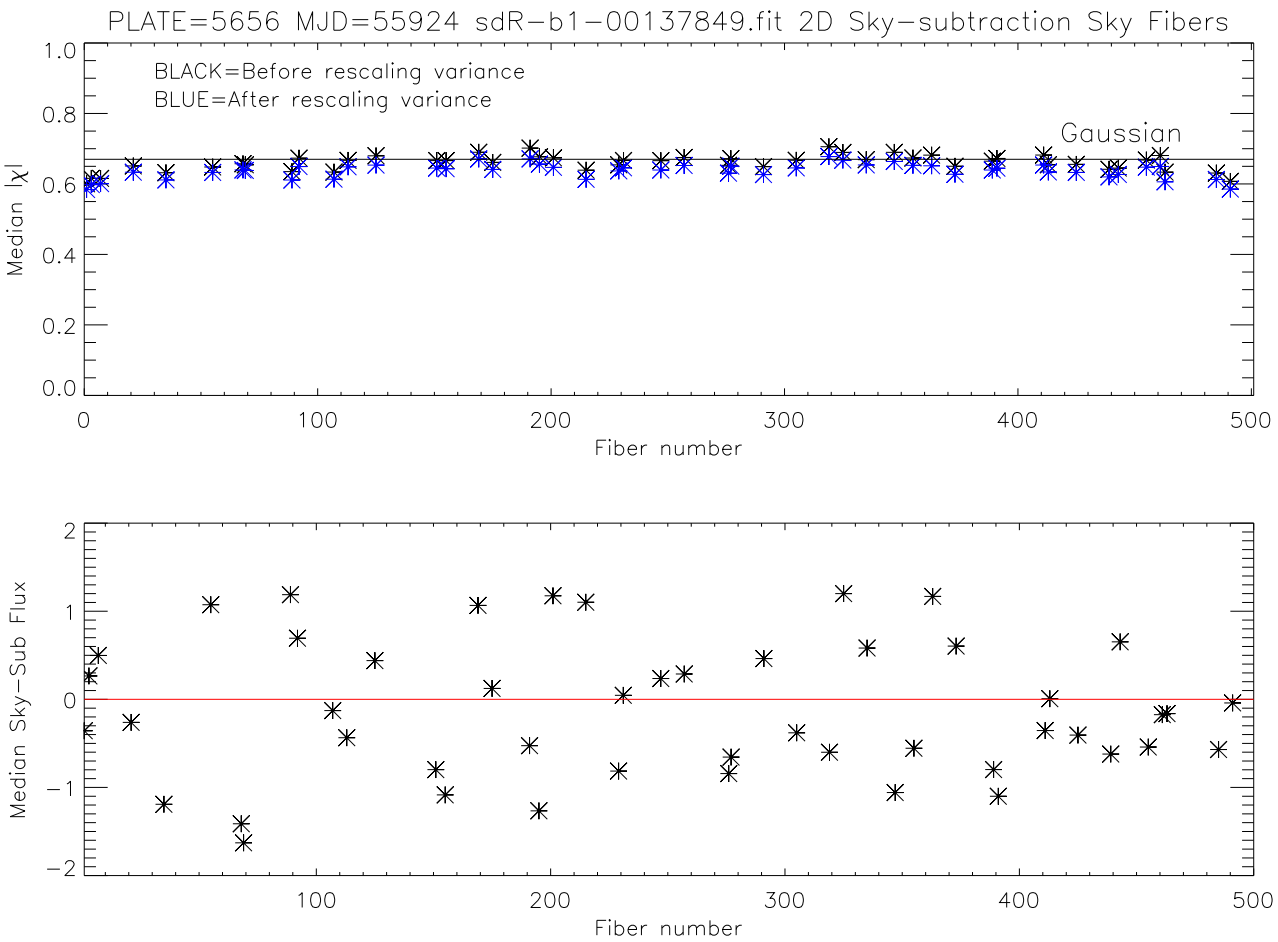

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

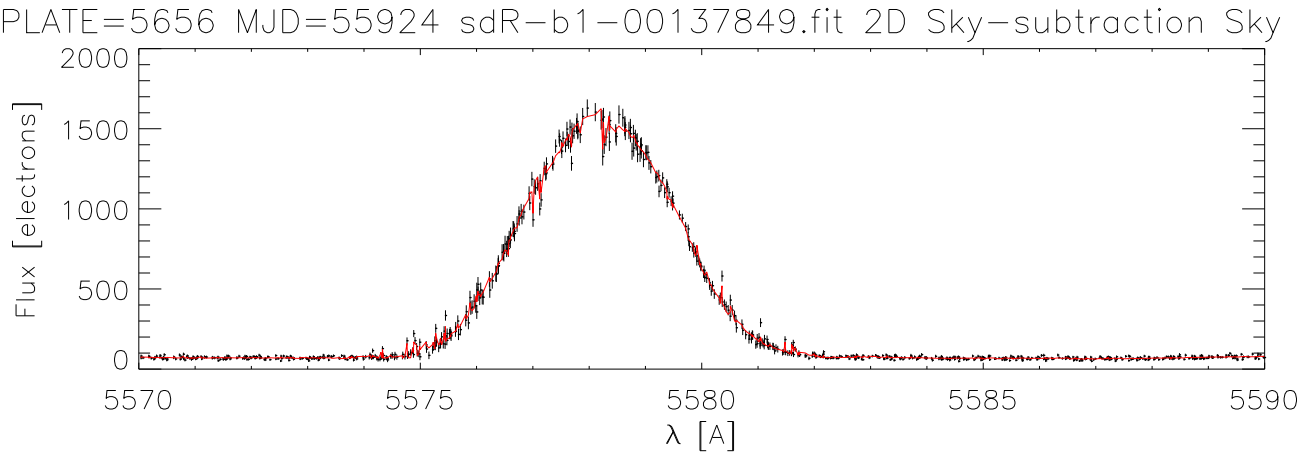

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

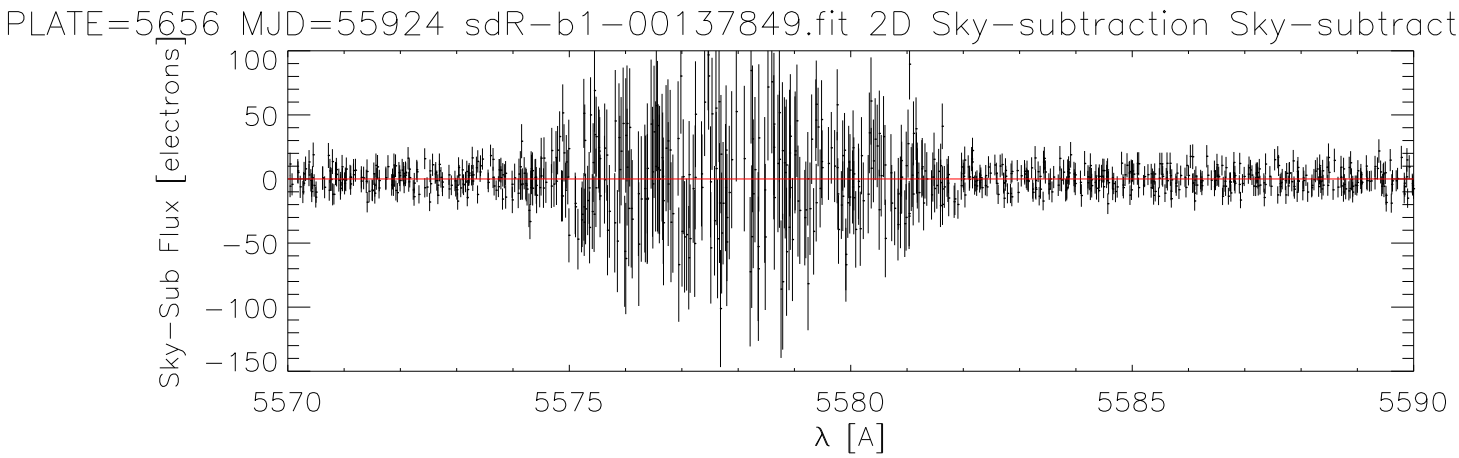

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

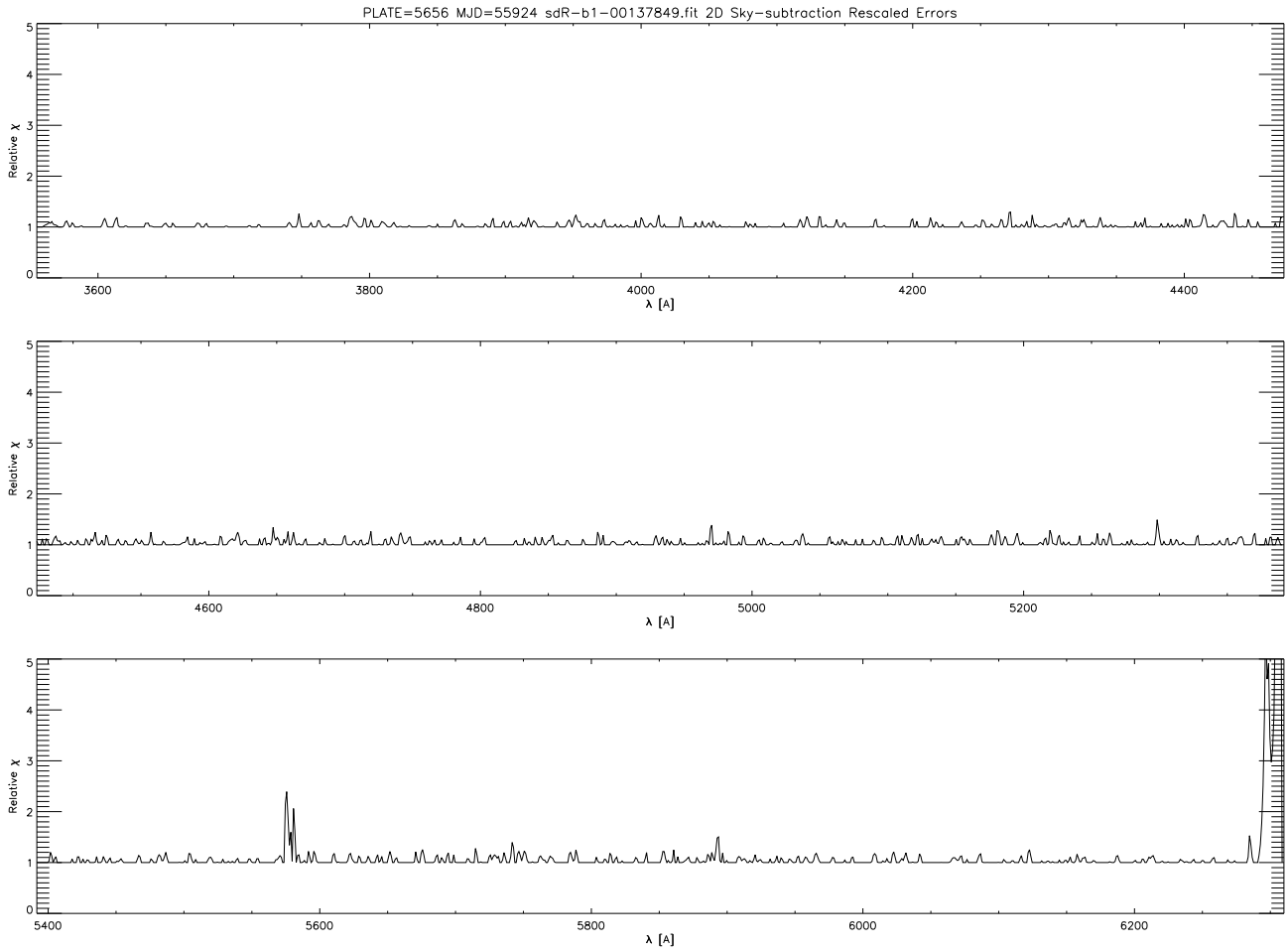


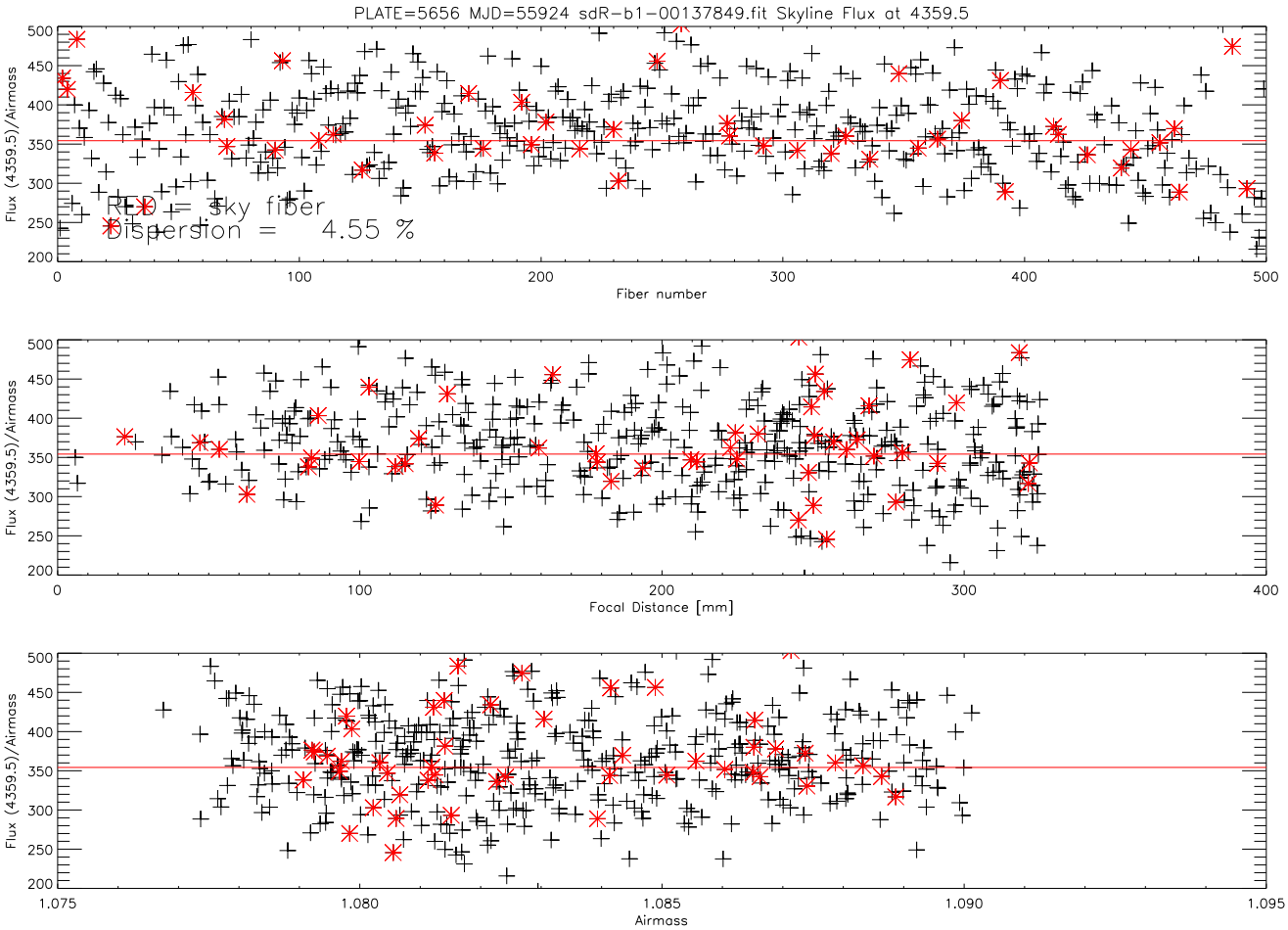

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

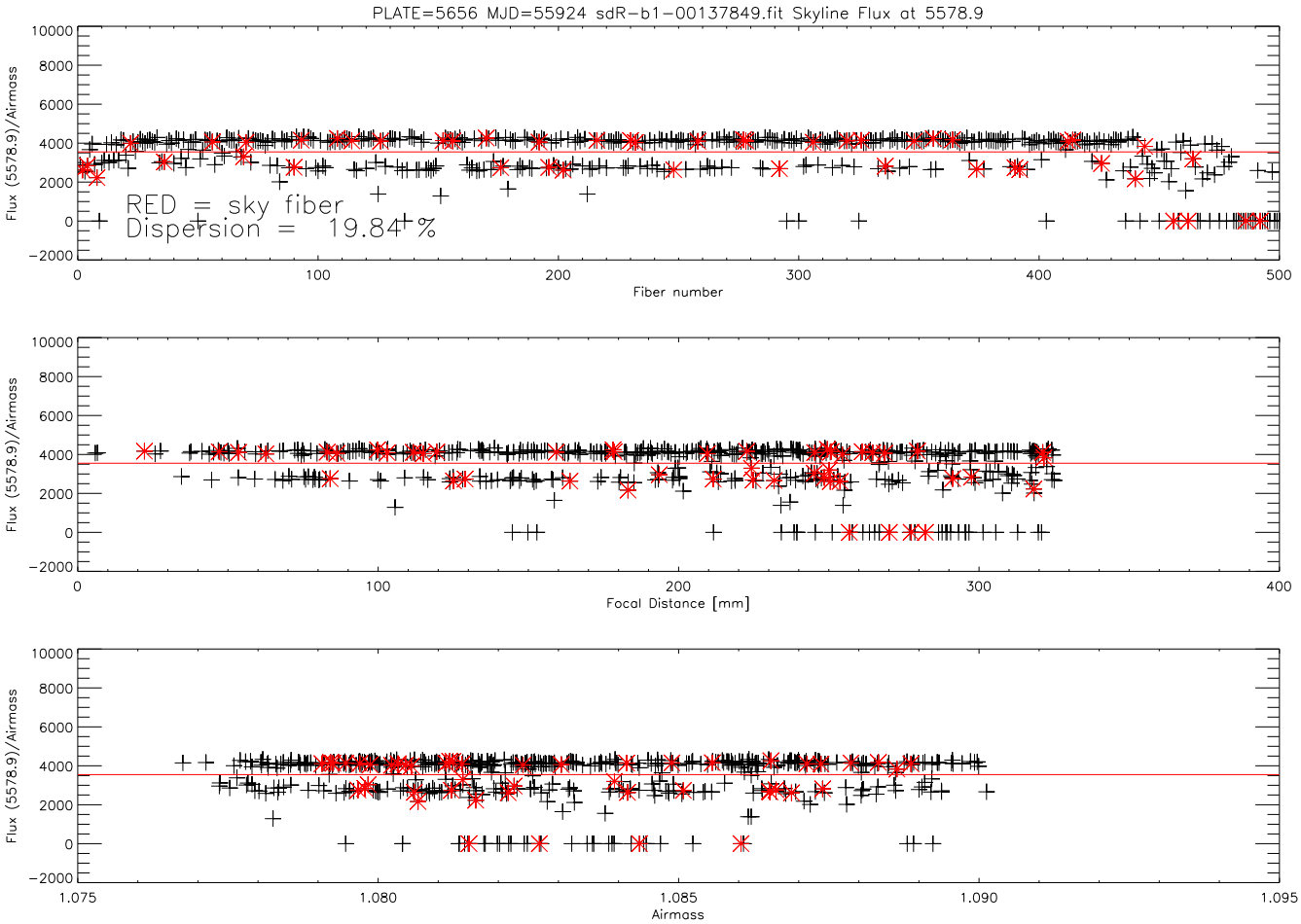

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

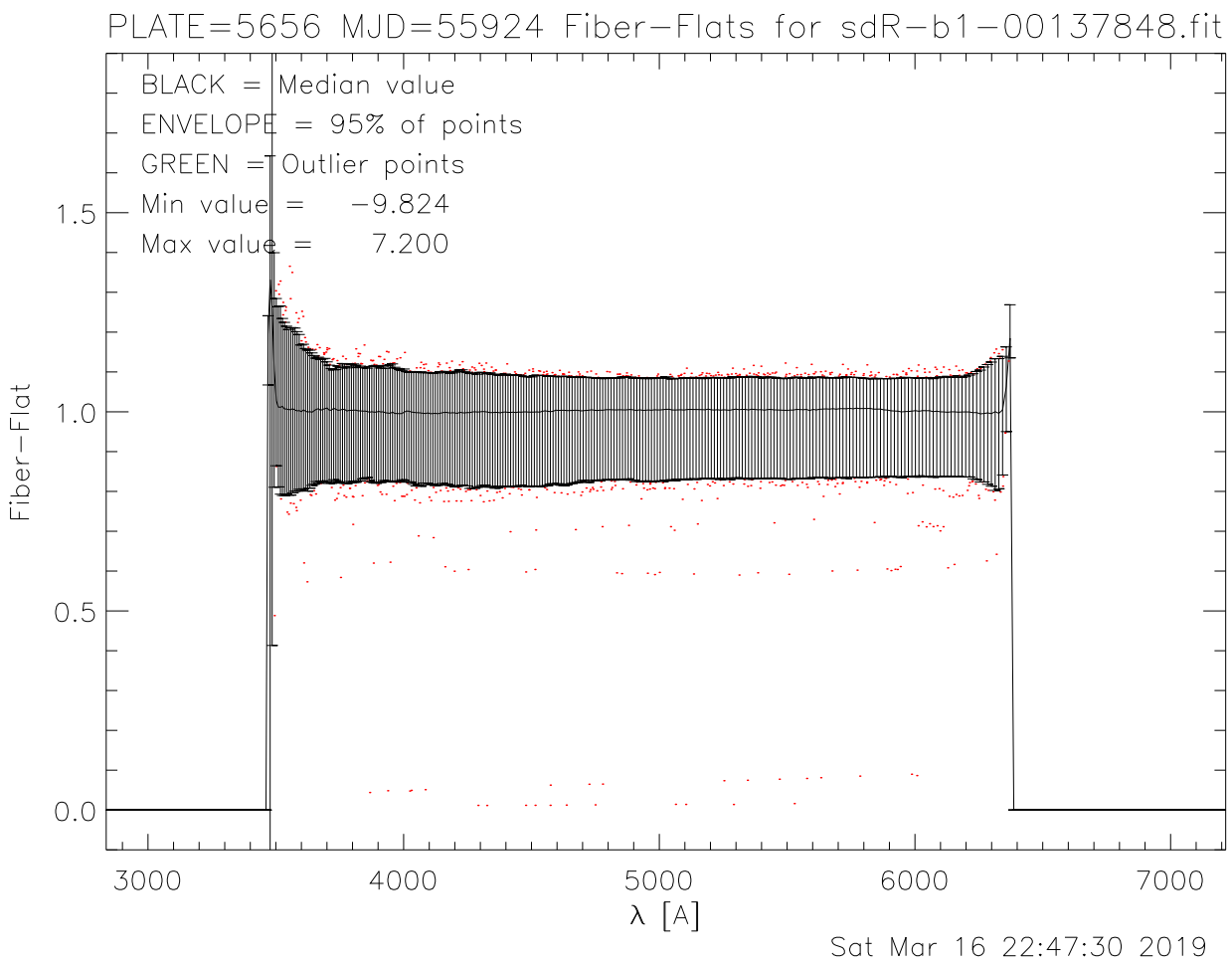

PLATE=5656 MJD=55924 sdR-b1-00137849.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

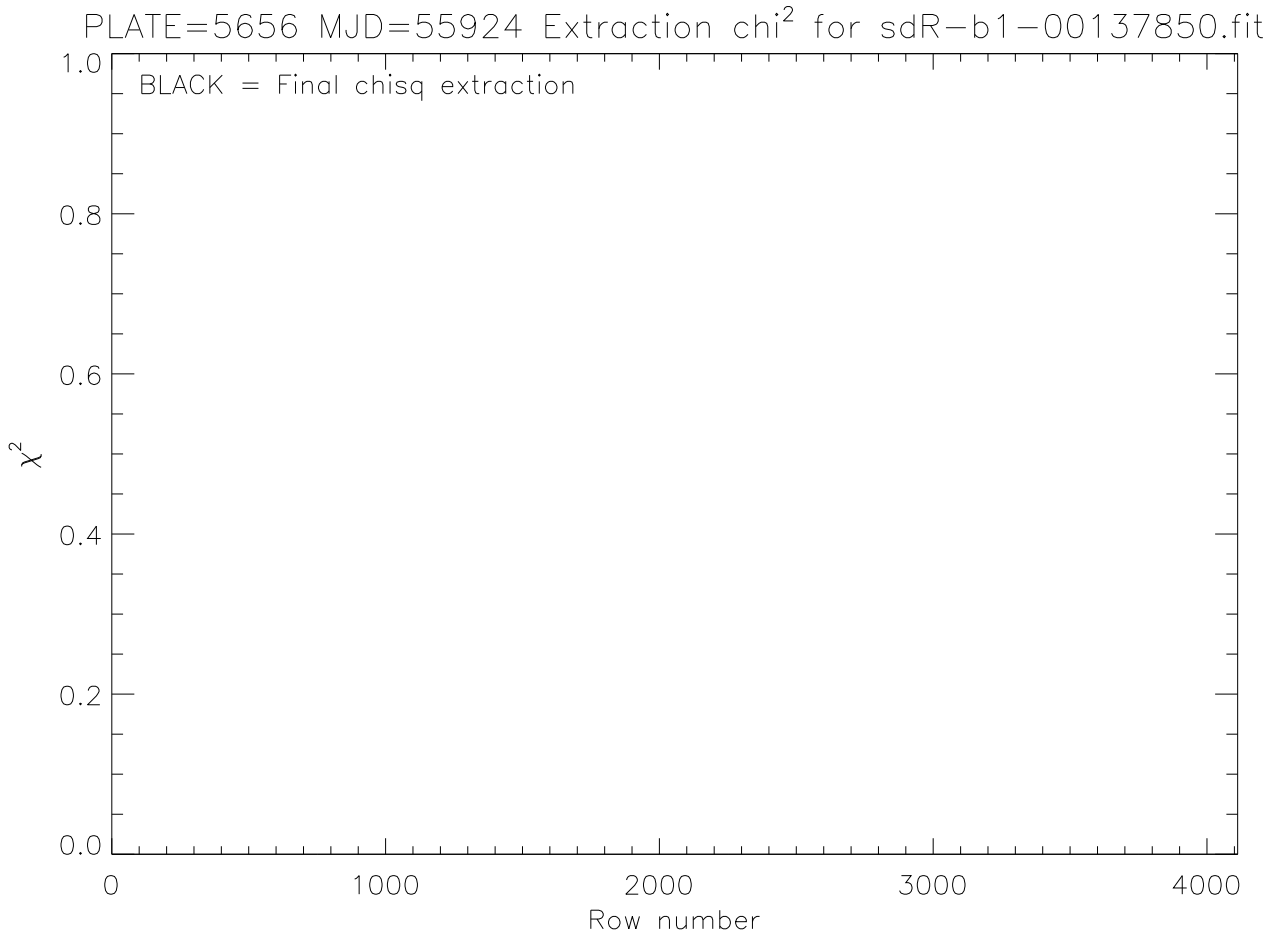
Number of sky fibers = 48

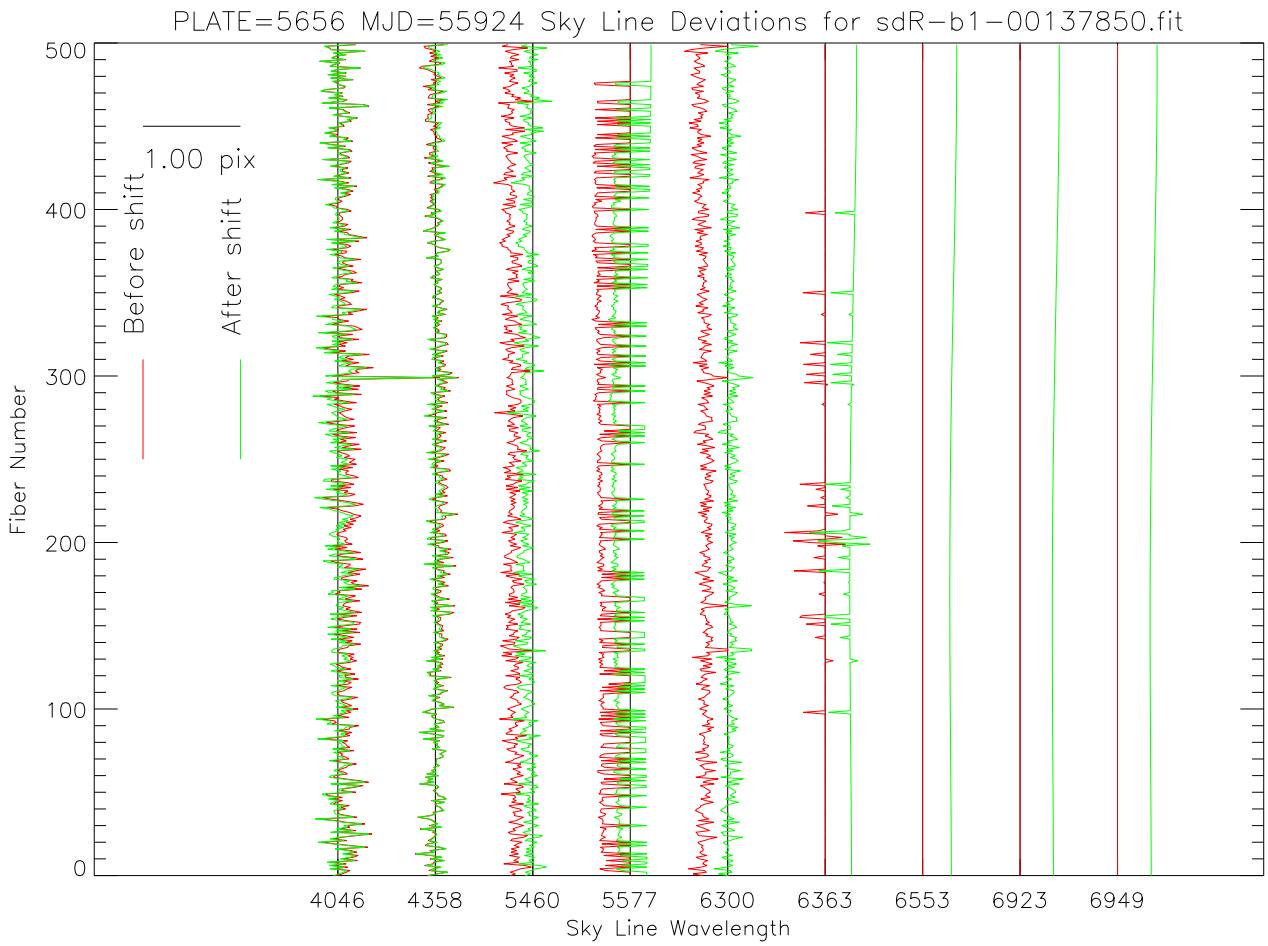


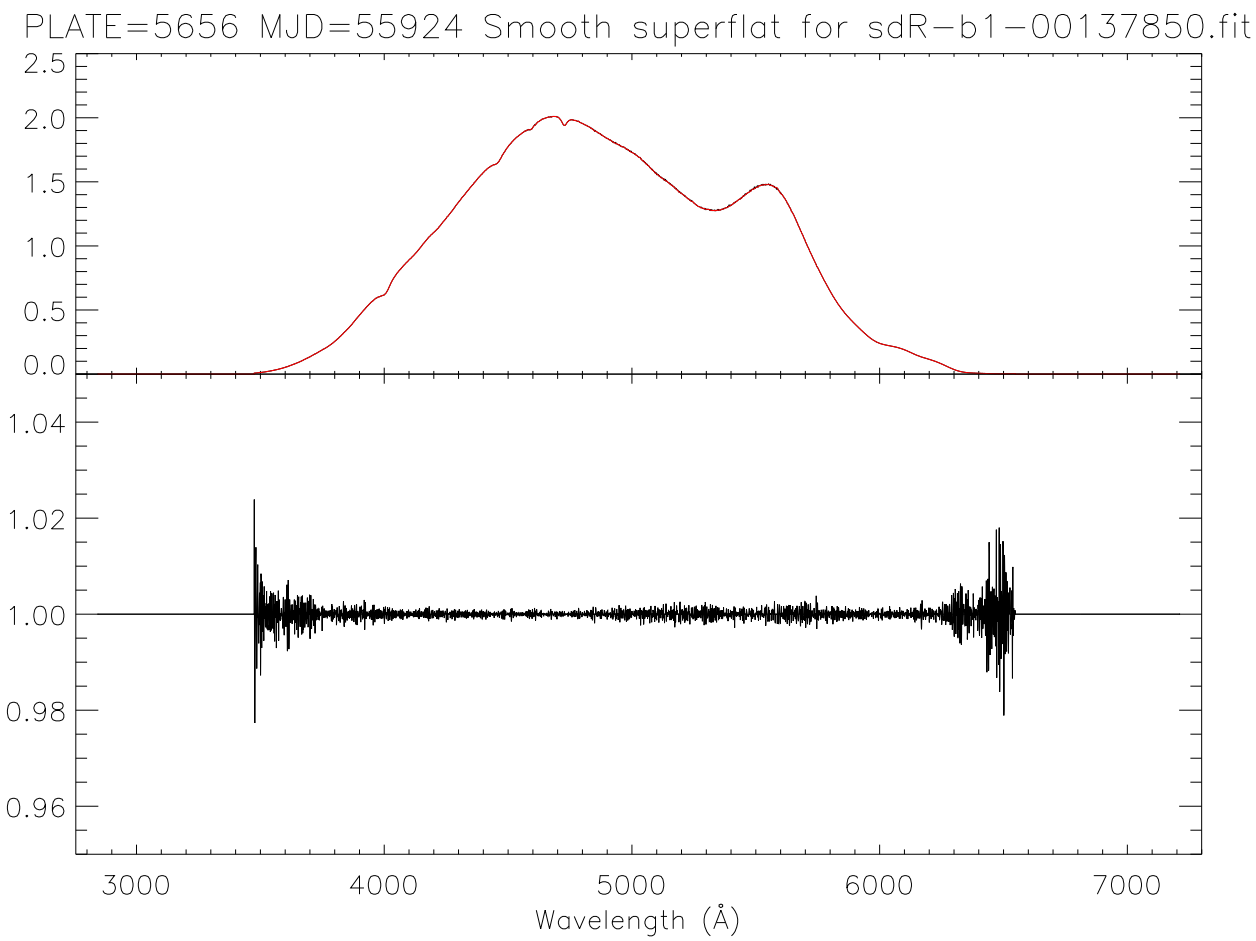

PLATE=5656 MJD=55924 sdR-b1-00137849.fit Skyline Flux at 4359.5
Red = sky fiber
Dispersion = 4.55 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

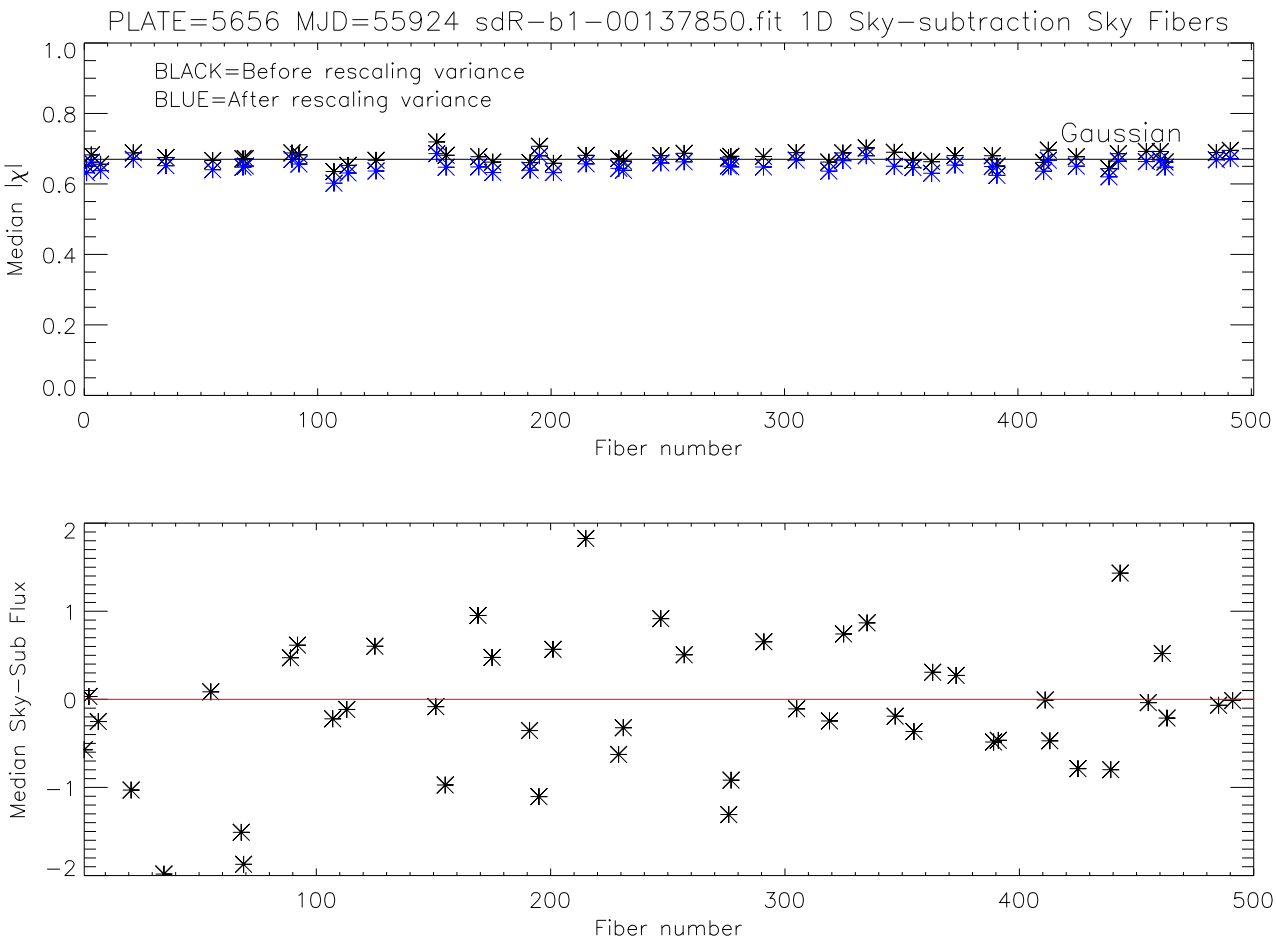

PLATE=5656 MJD=55924 sdR-b1-00137849.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 19.84 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

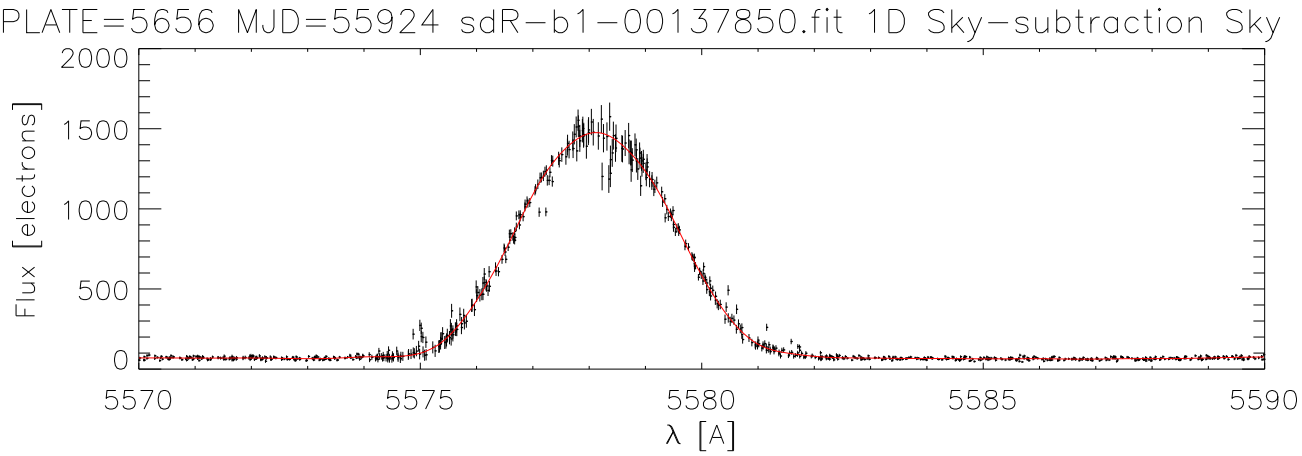

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b1-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -9.824
Max value = 7.200
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 22:47:30 2019

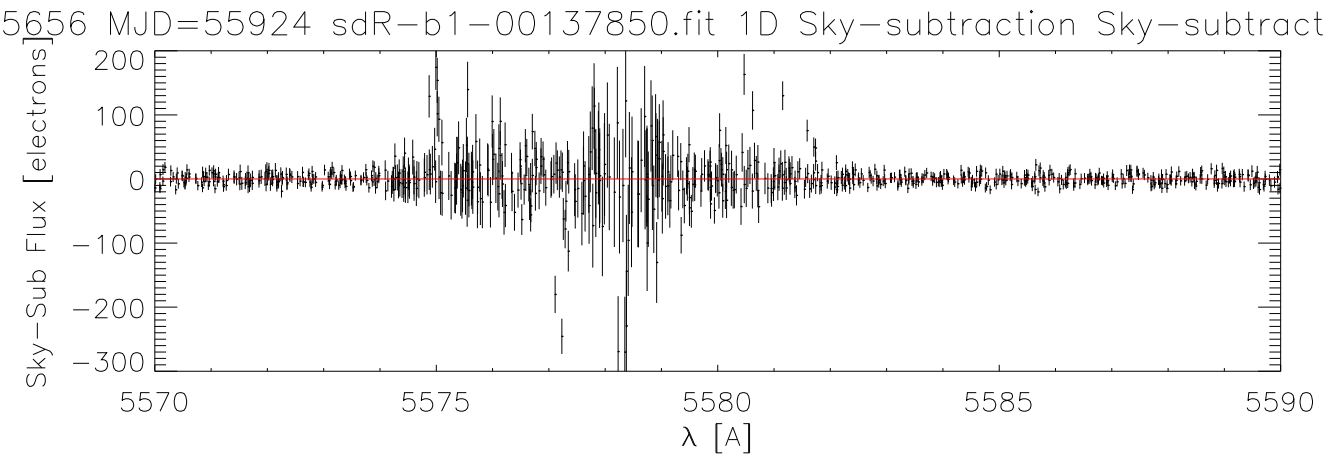

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−b1−00137850.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b1-00137850.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

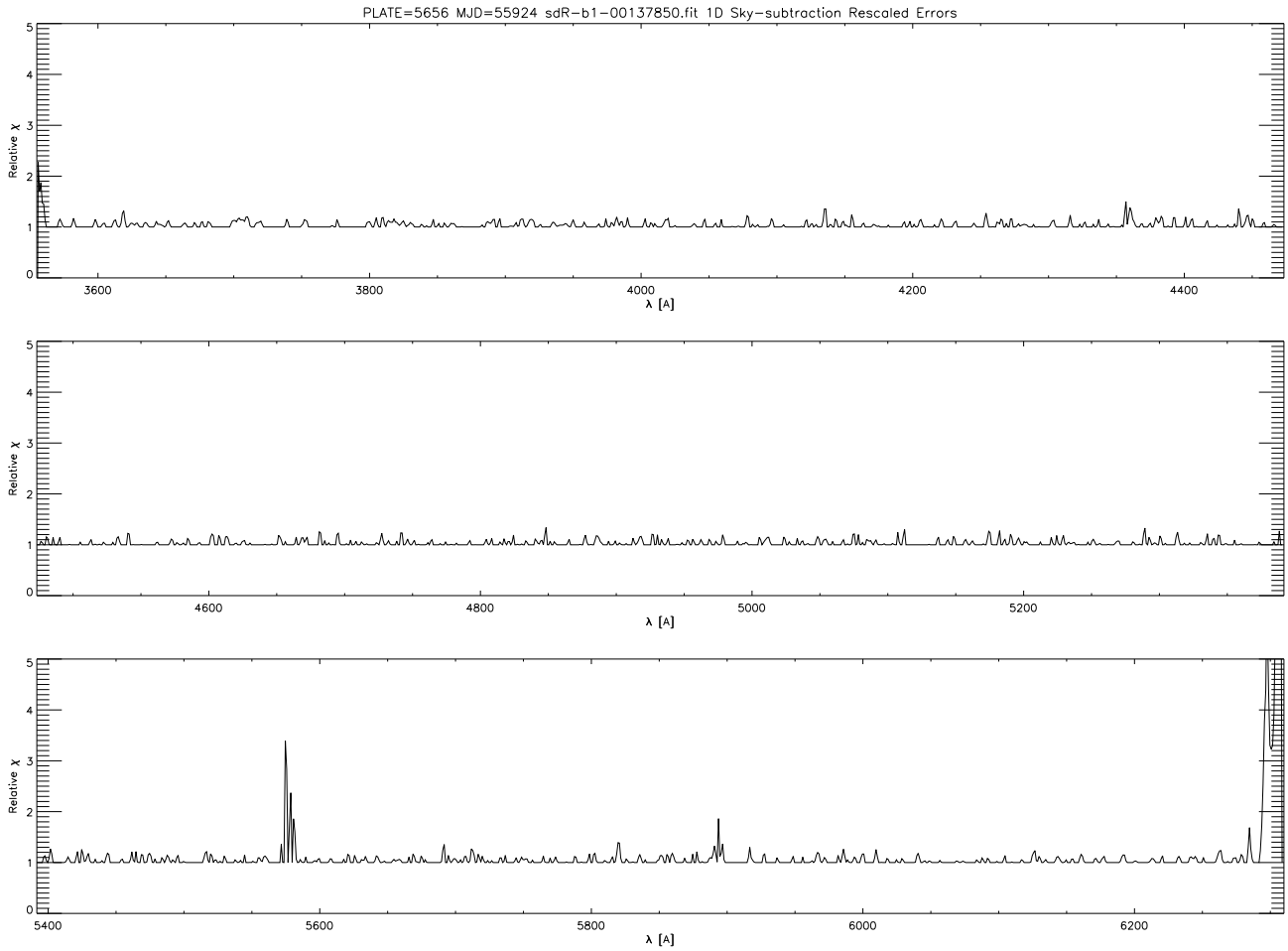

PLATE=5656 MJD=55924 Smooth superflat for sdR-b1-00137850.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

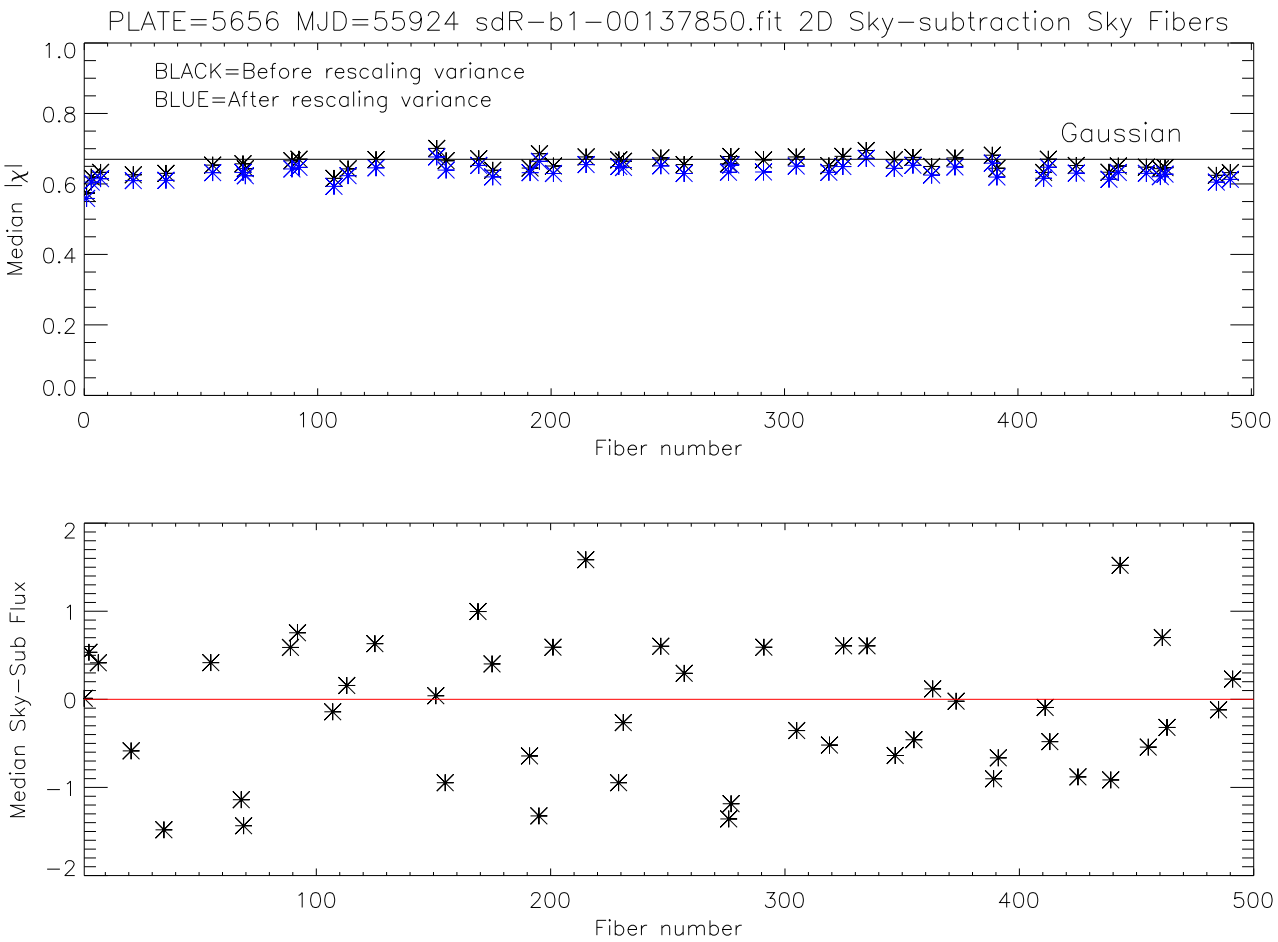

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

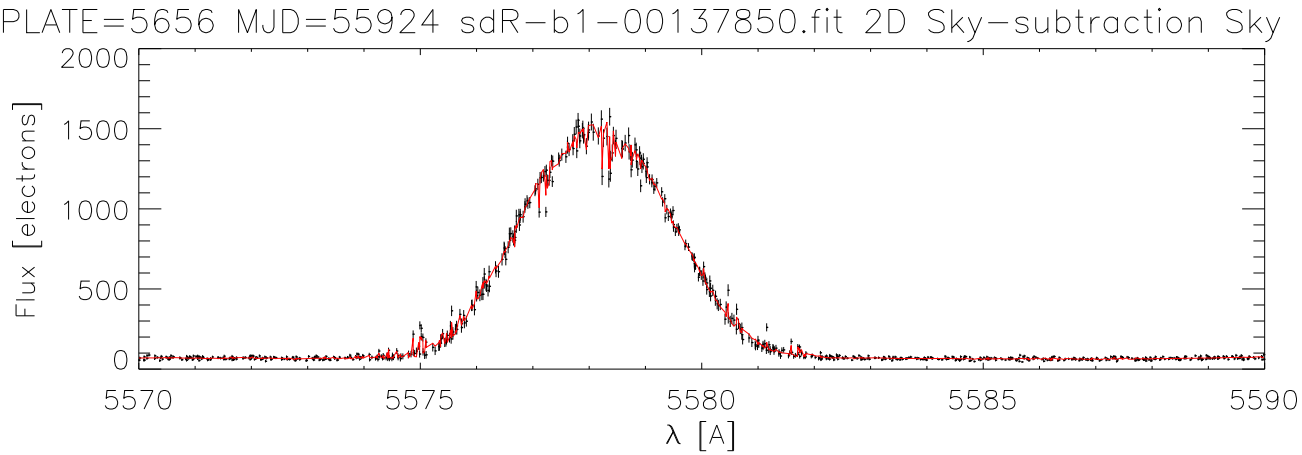

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

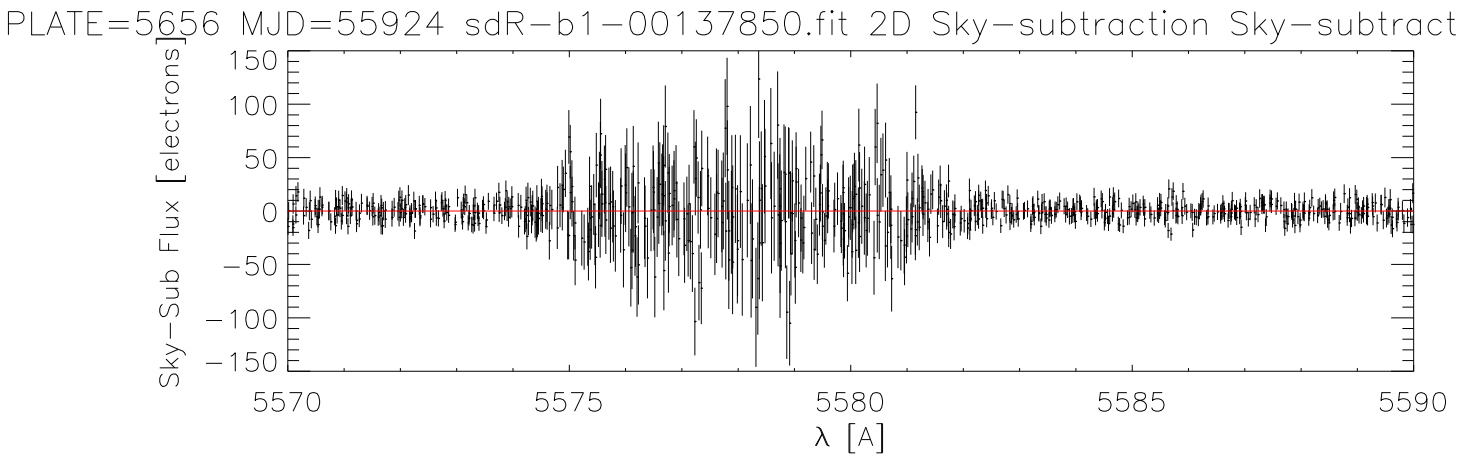

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

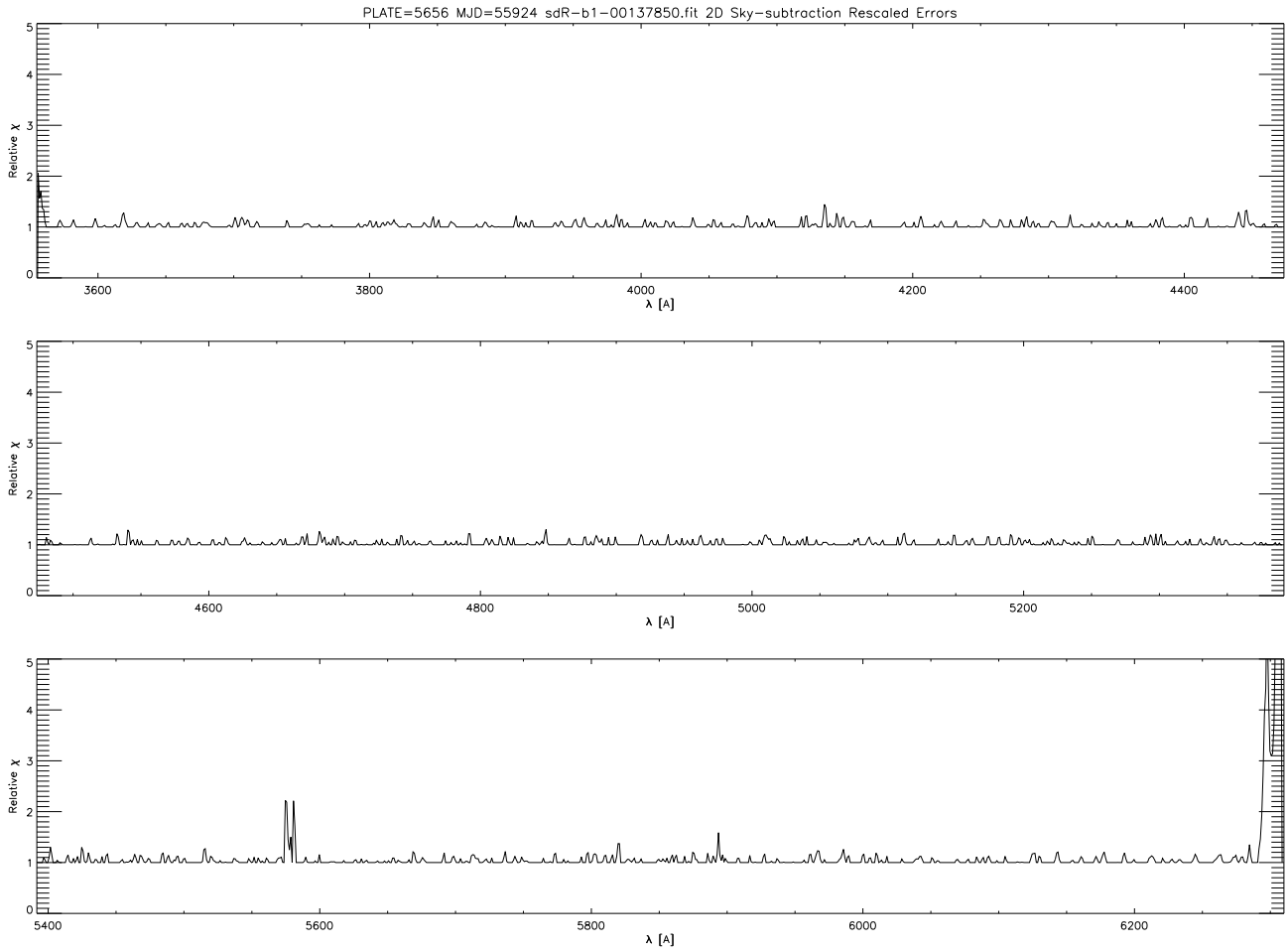


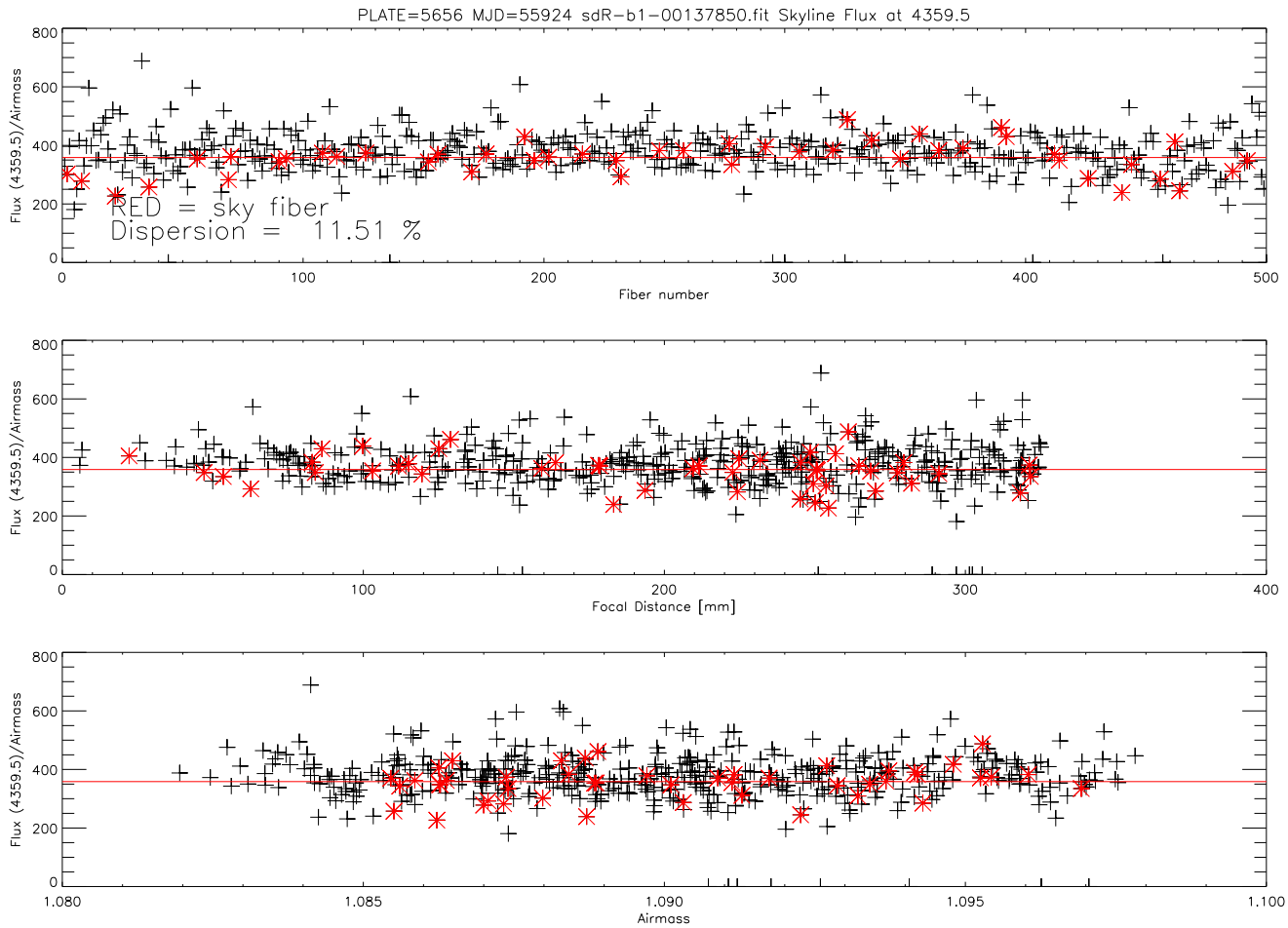

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

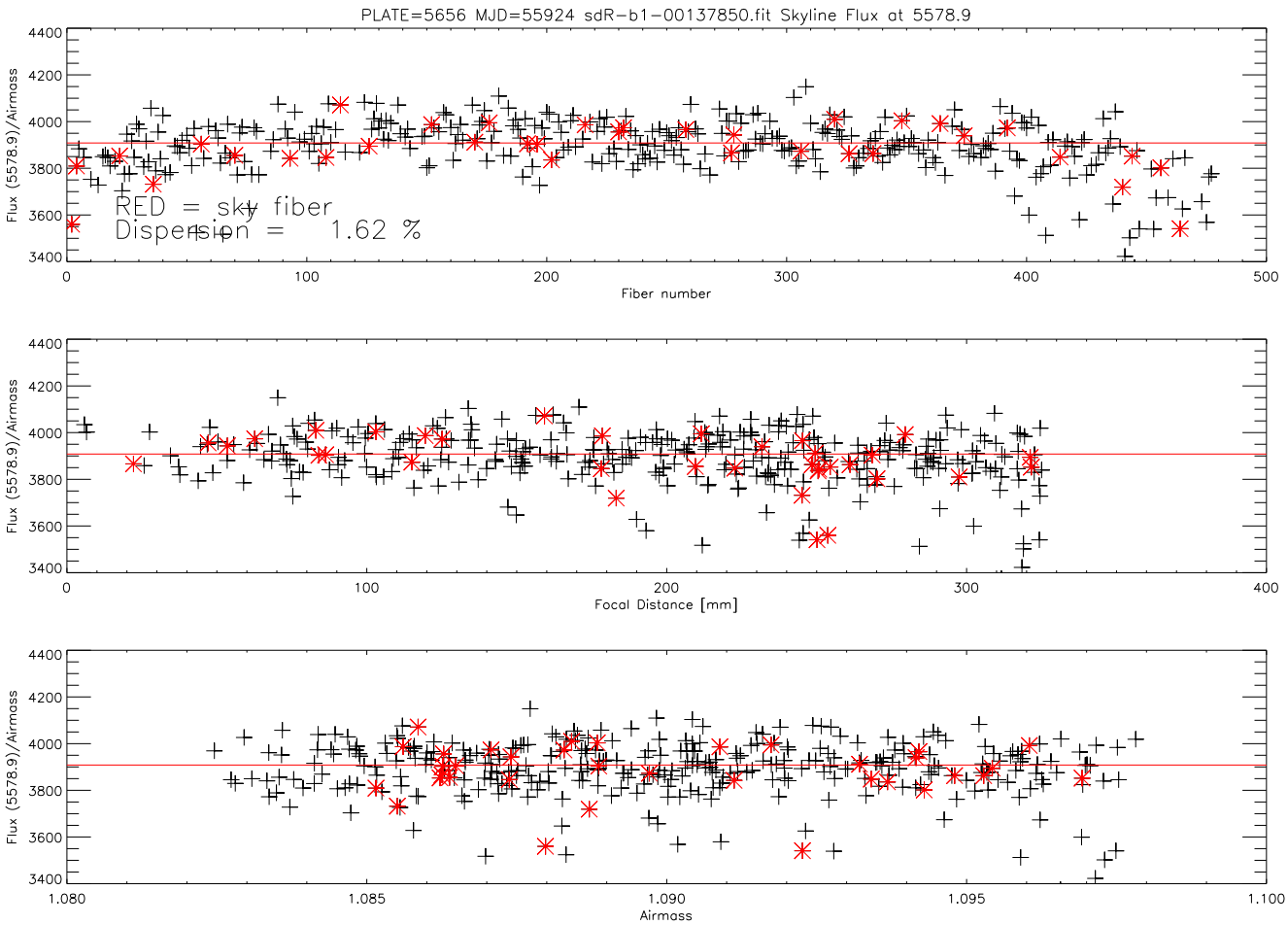

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

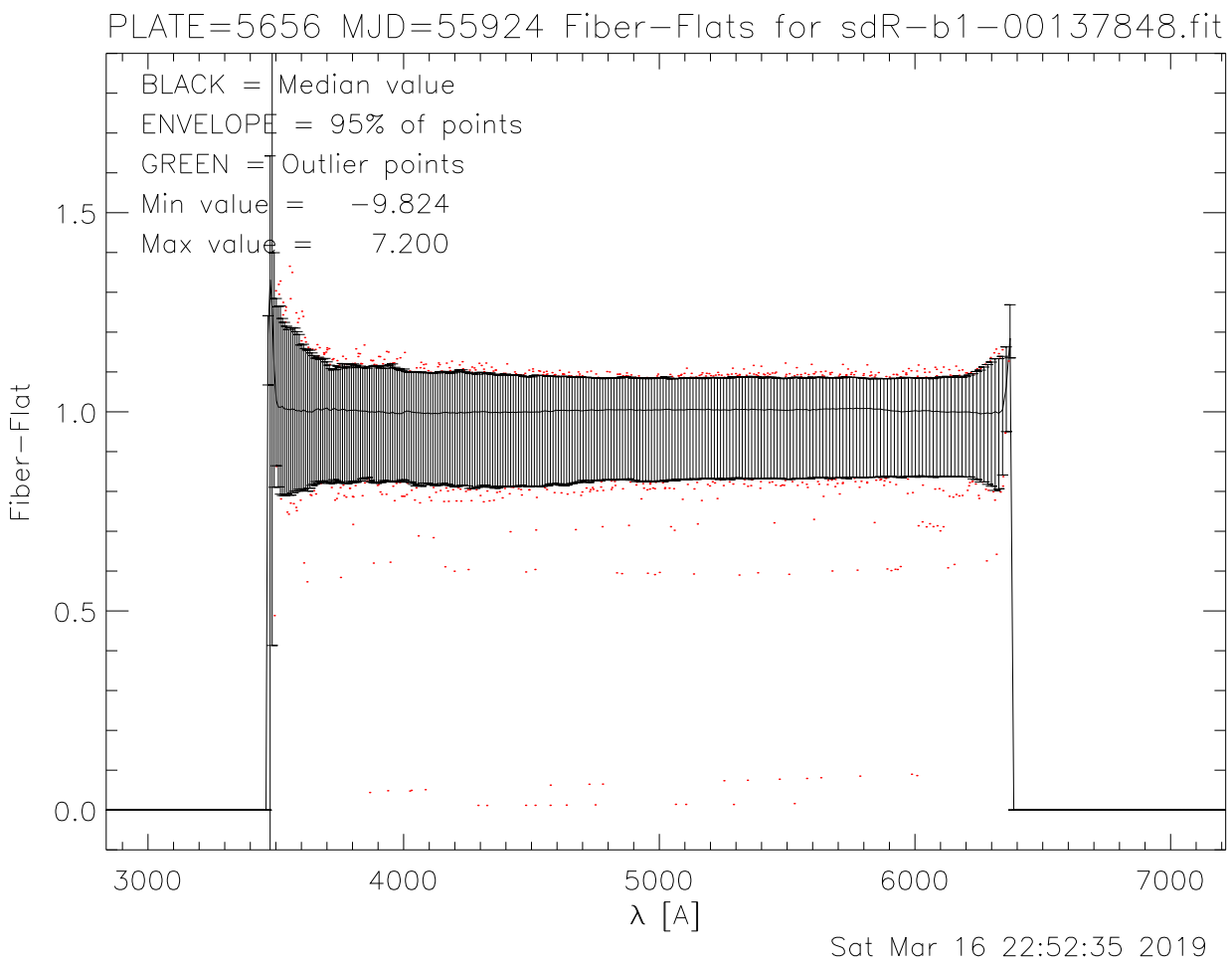

PLATE=5656 MJD=55924 sdR-b1-00137850.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

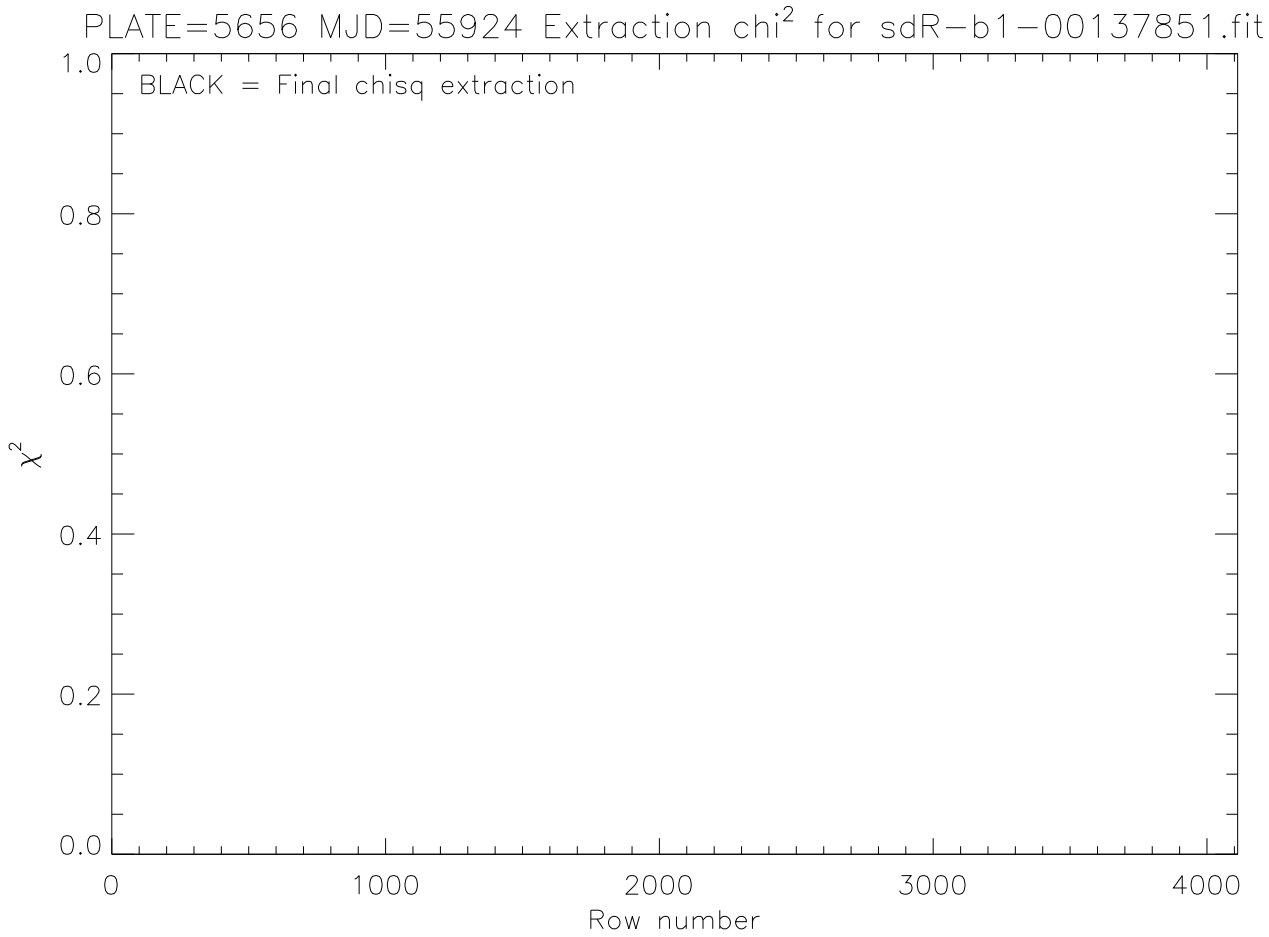
Number of sky fibers = 48

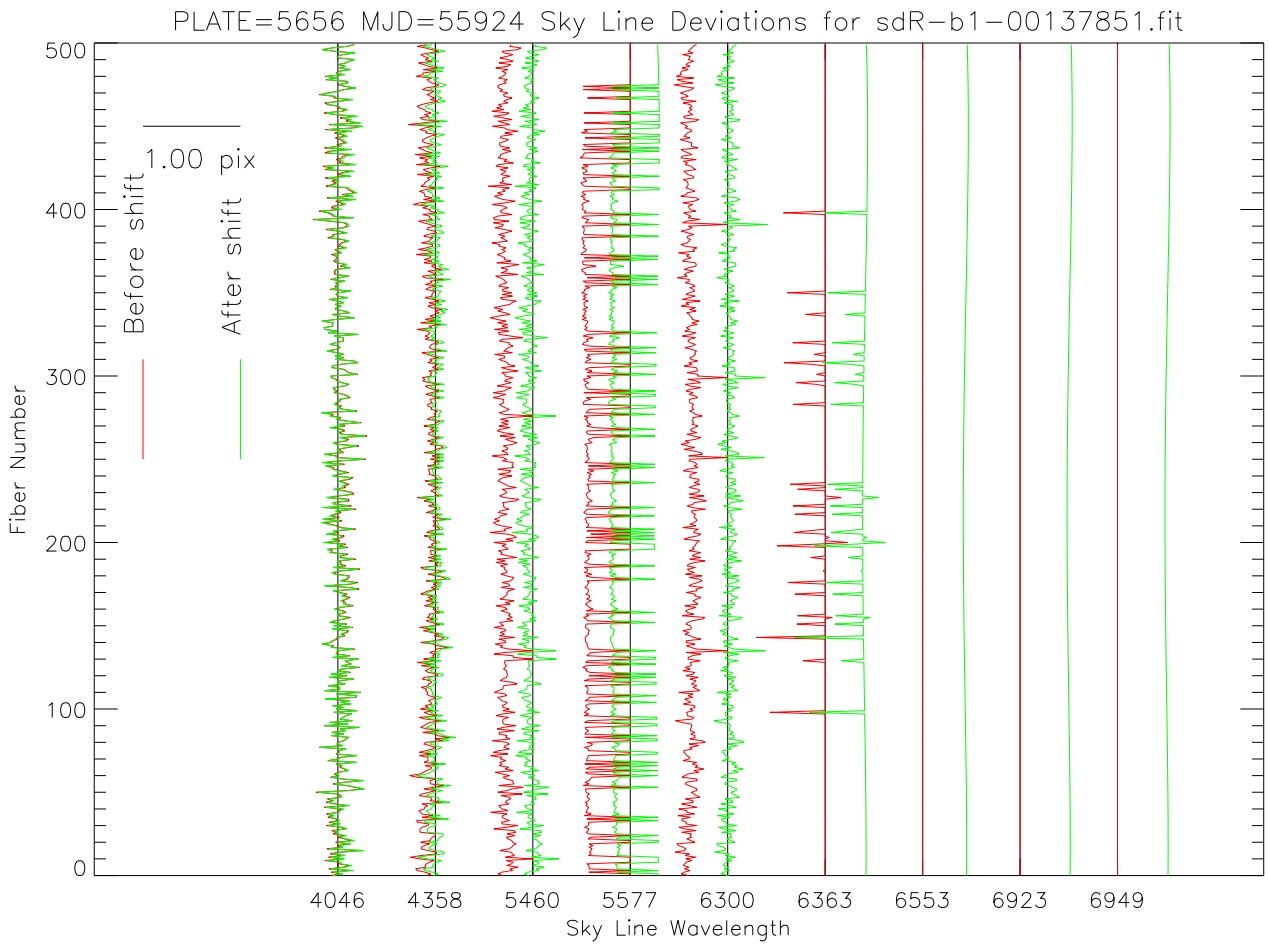


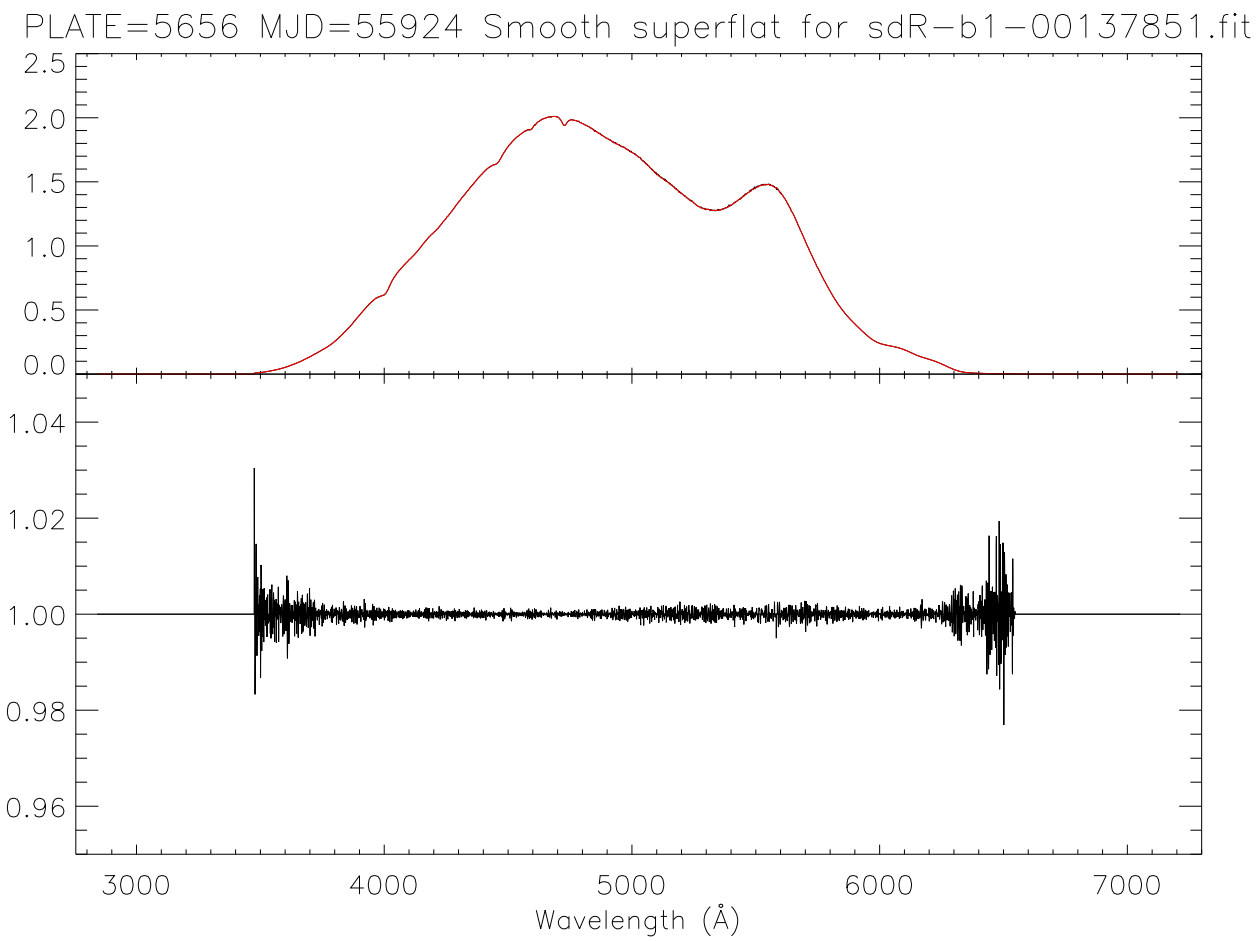

PLATE=5656 MJD=55924 sdR-b1-00137850.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 11.51 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

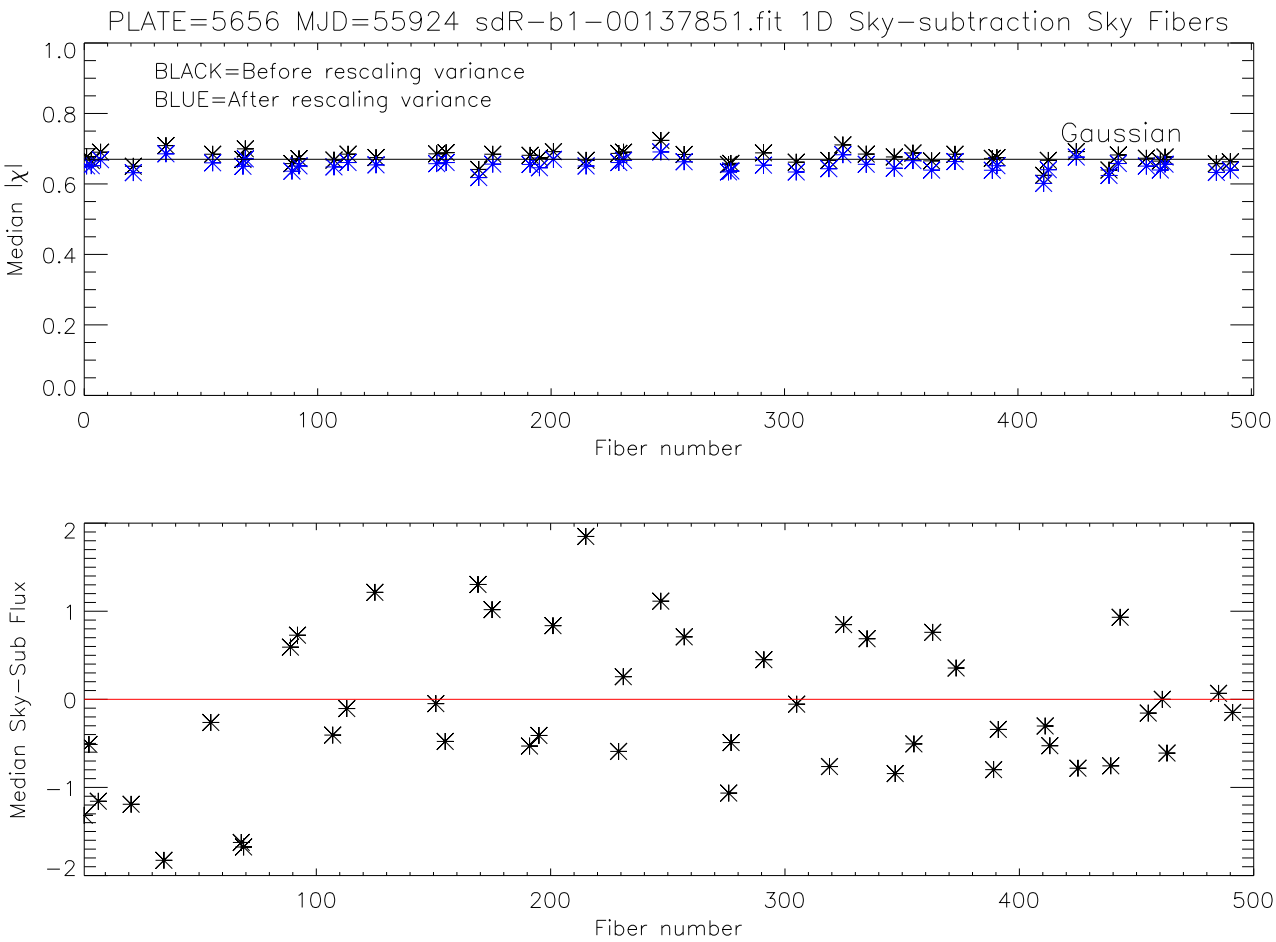

PLATE=5656 MJD=55924 sdR-b1-00137850.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.62 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

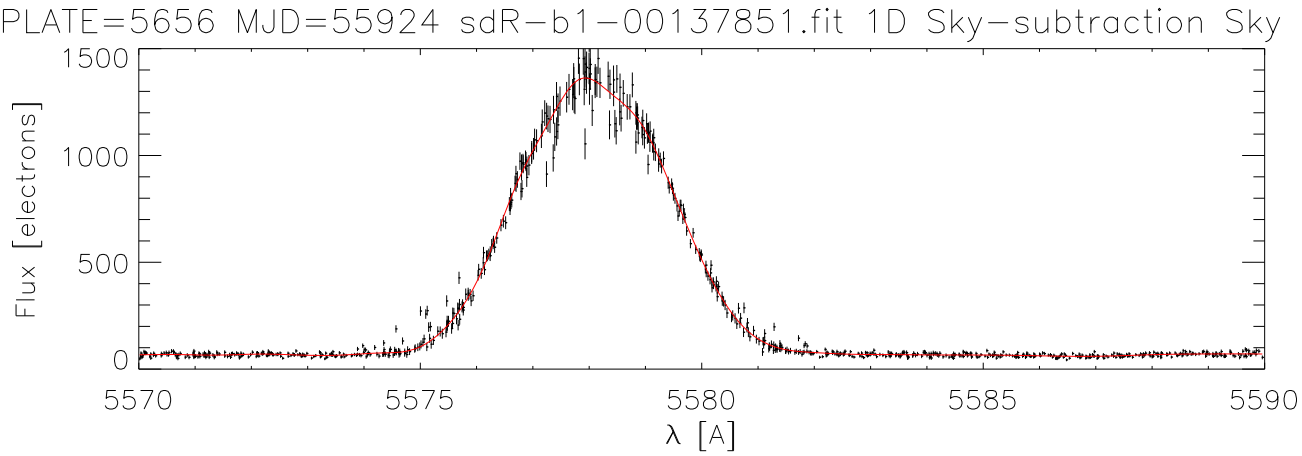

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b1-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -9.824
Max value = 7.200
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 22:52:35 2019

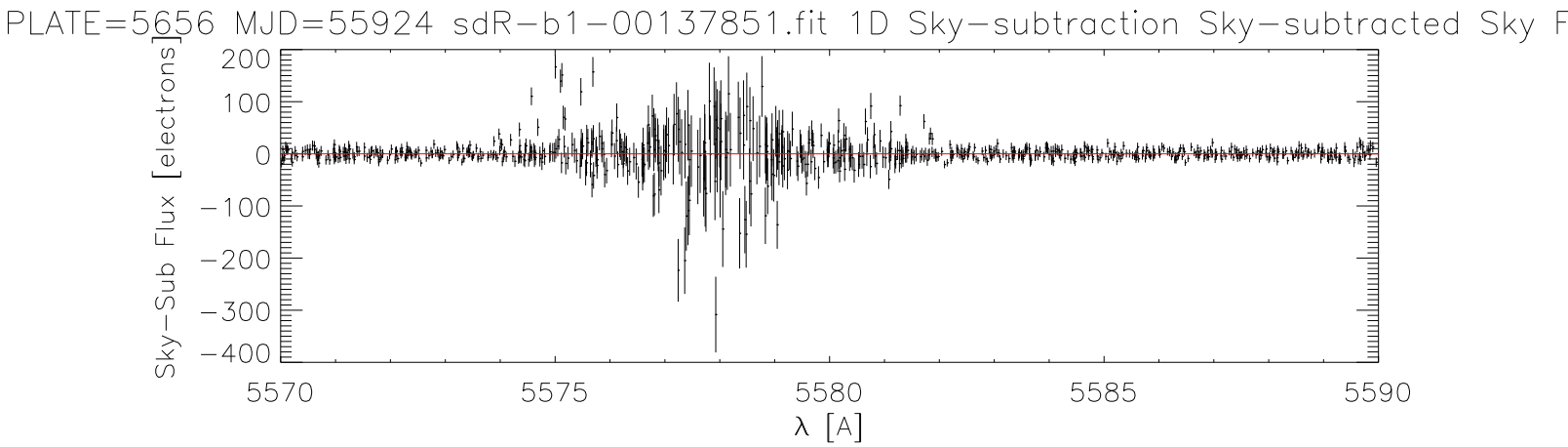

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−b1−00137851.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b1-00137851.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

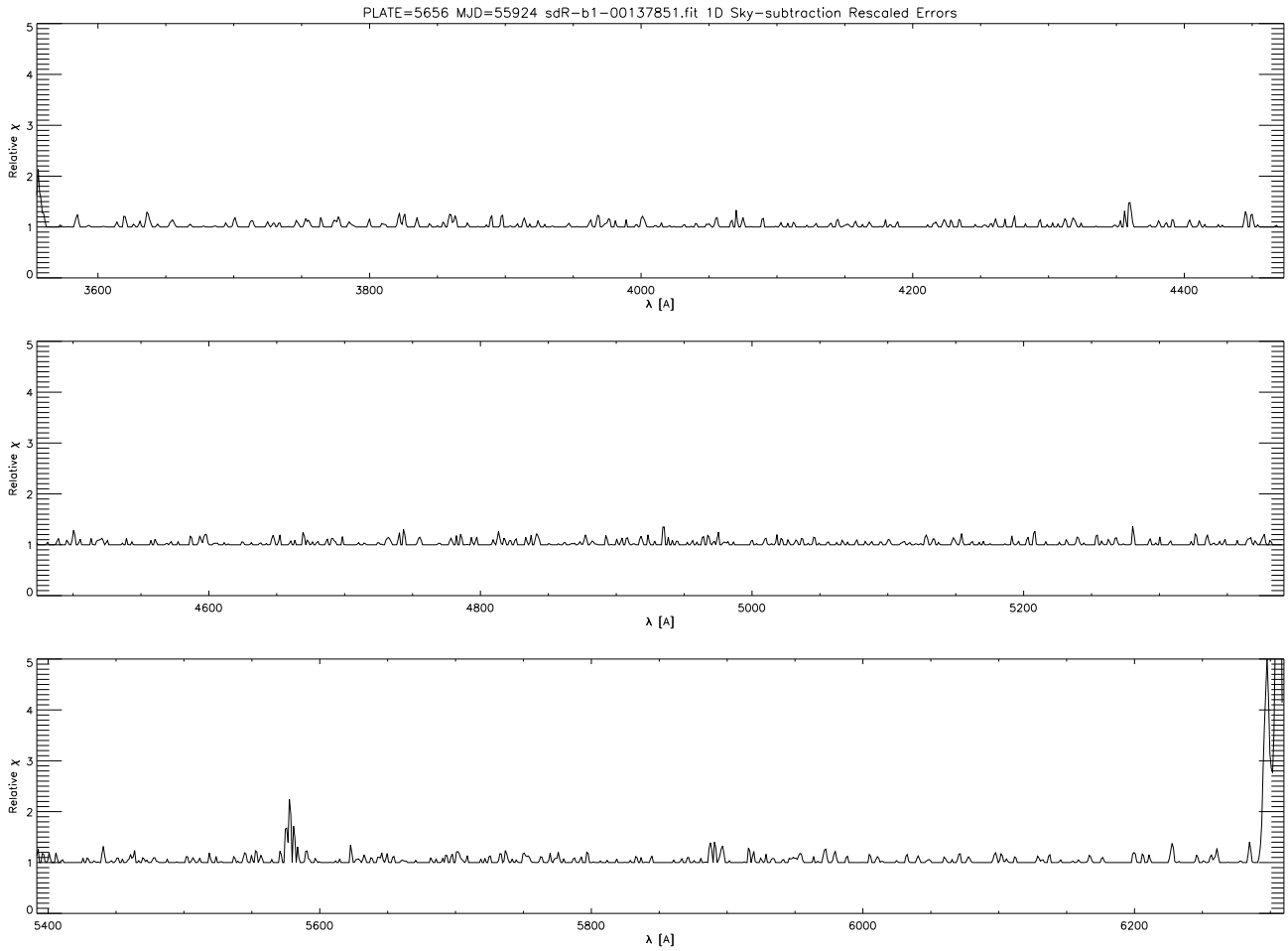

PLATE=5656 MJD=55924 Smooth superflat for sdR-b1-00137851.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

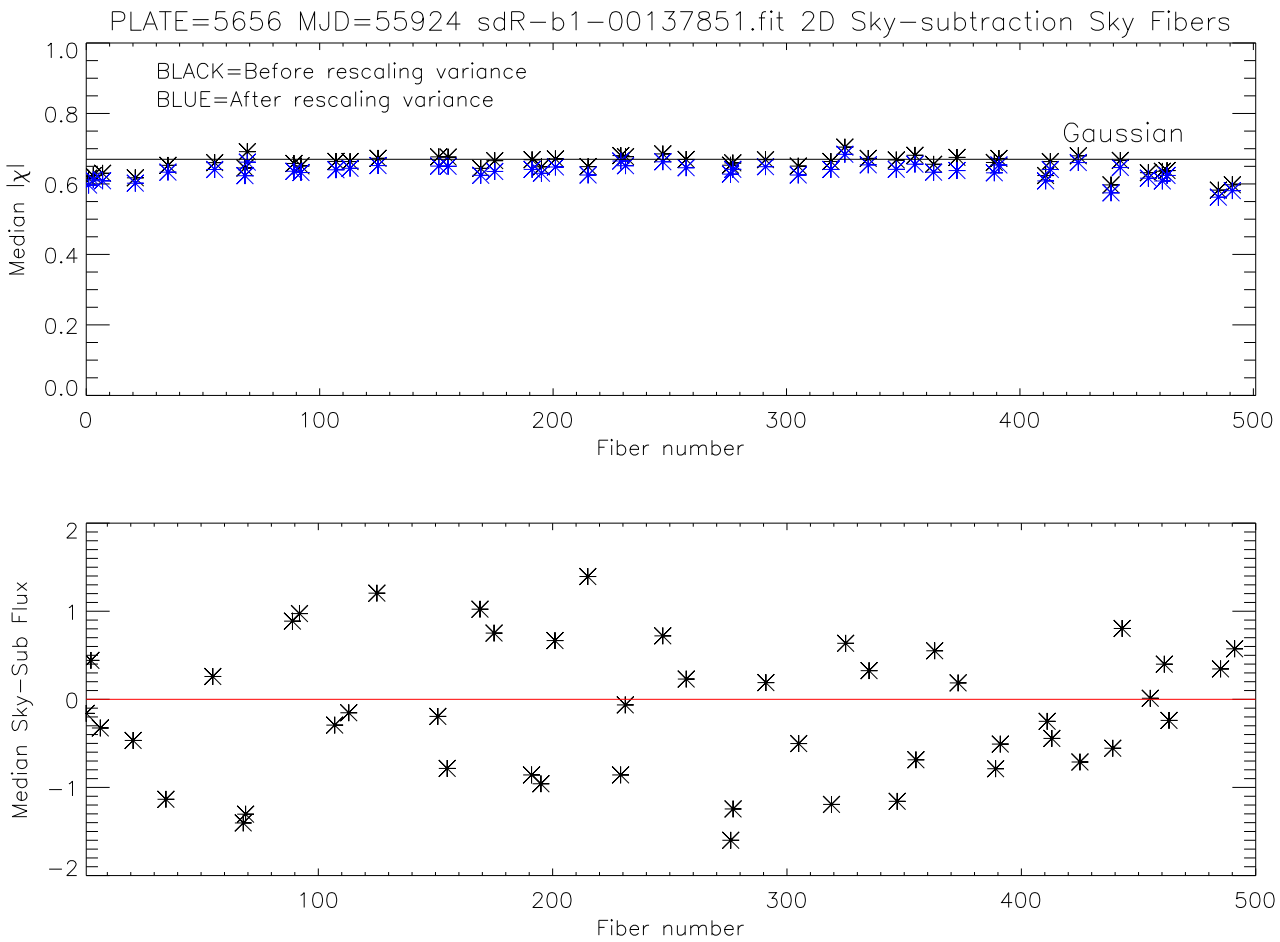

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

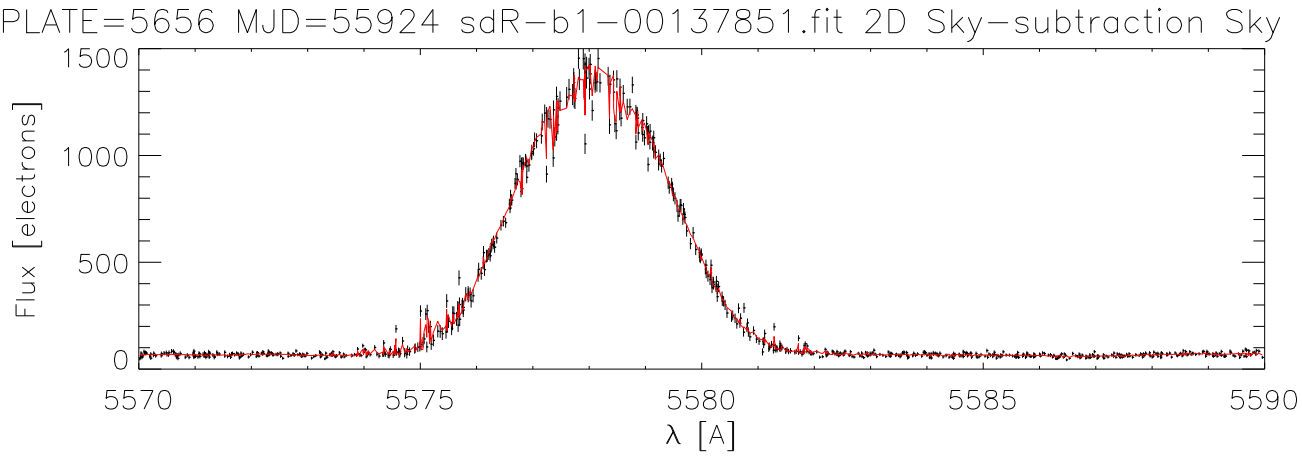

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

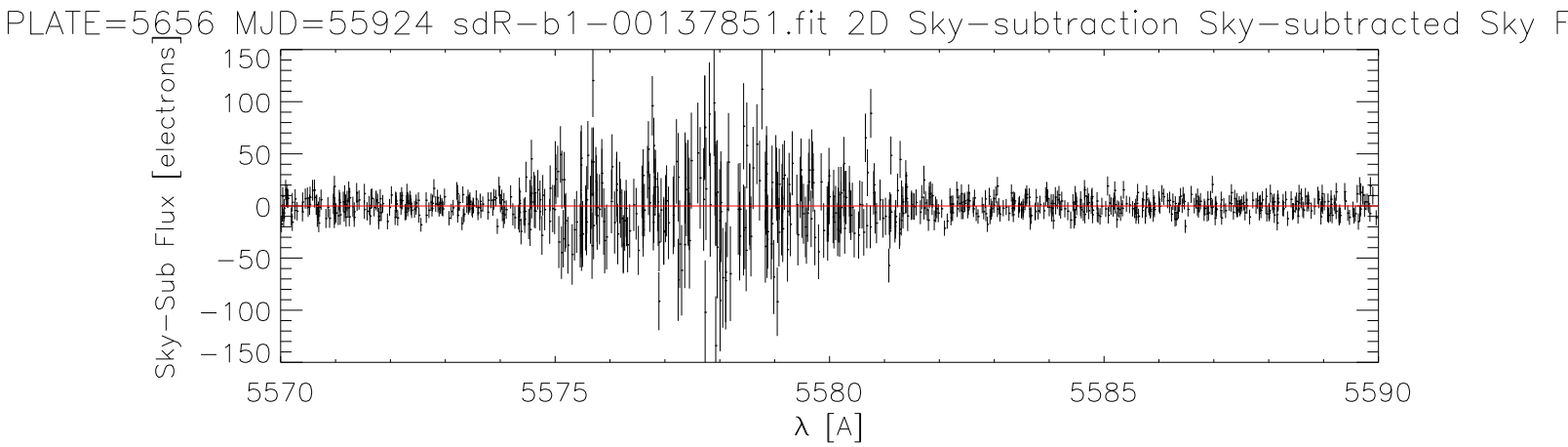

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

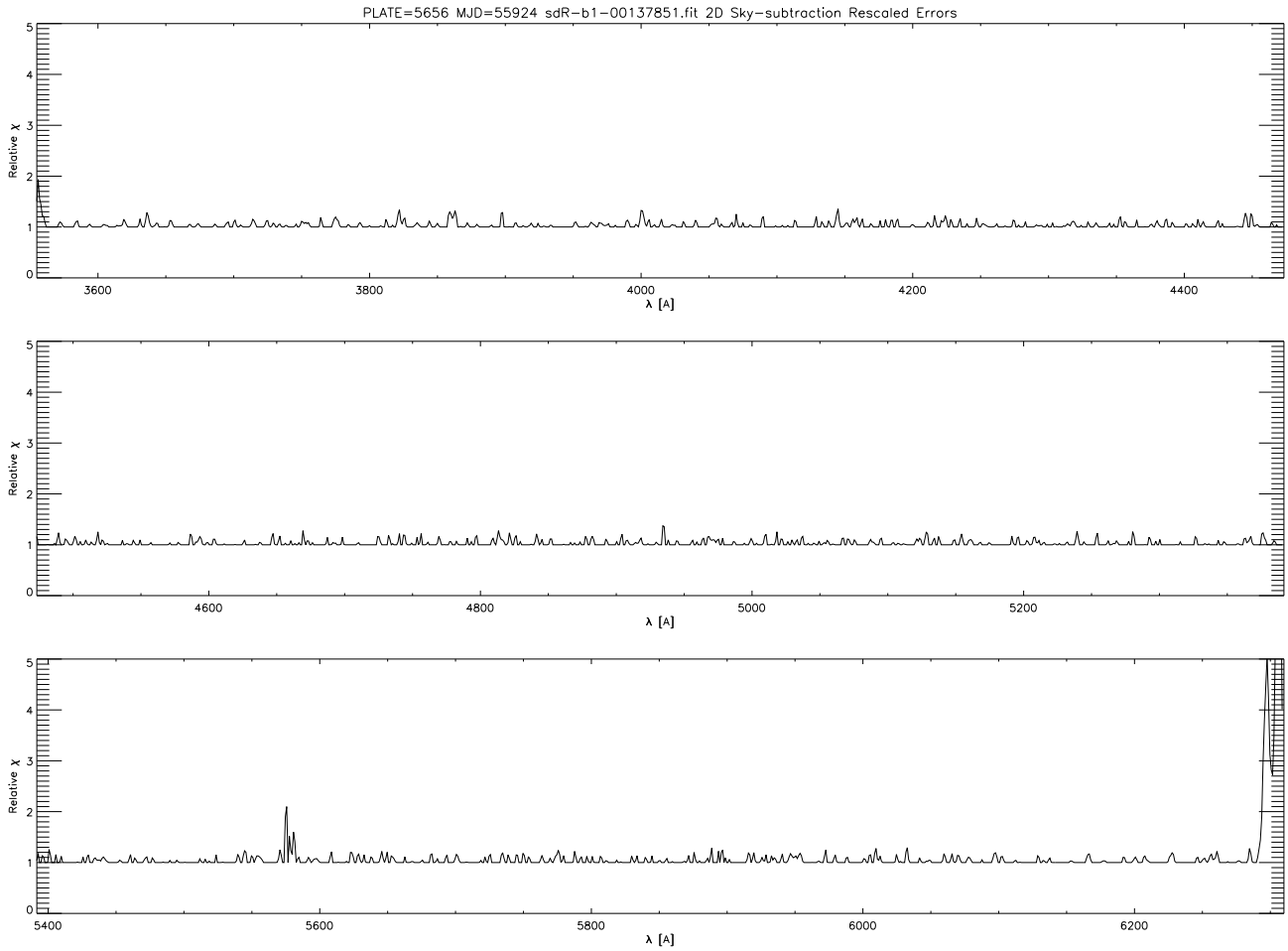


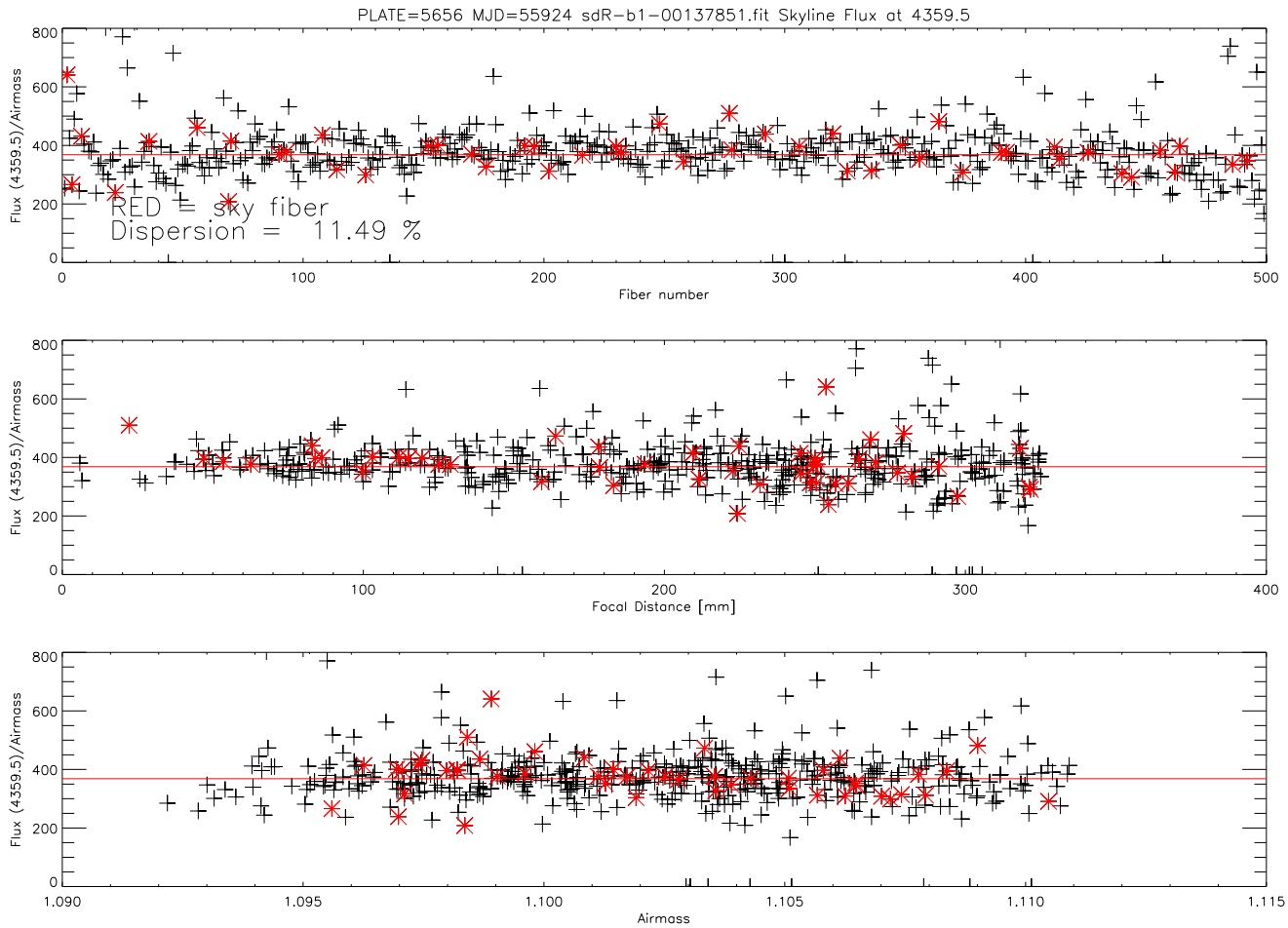

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

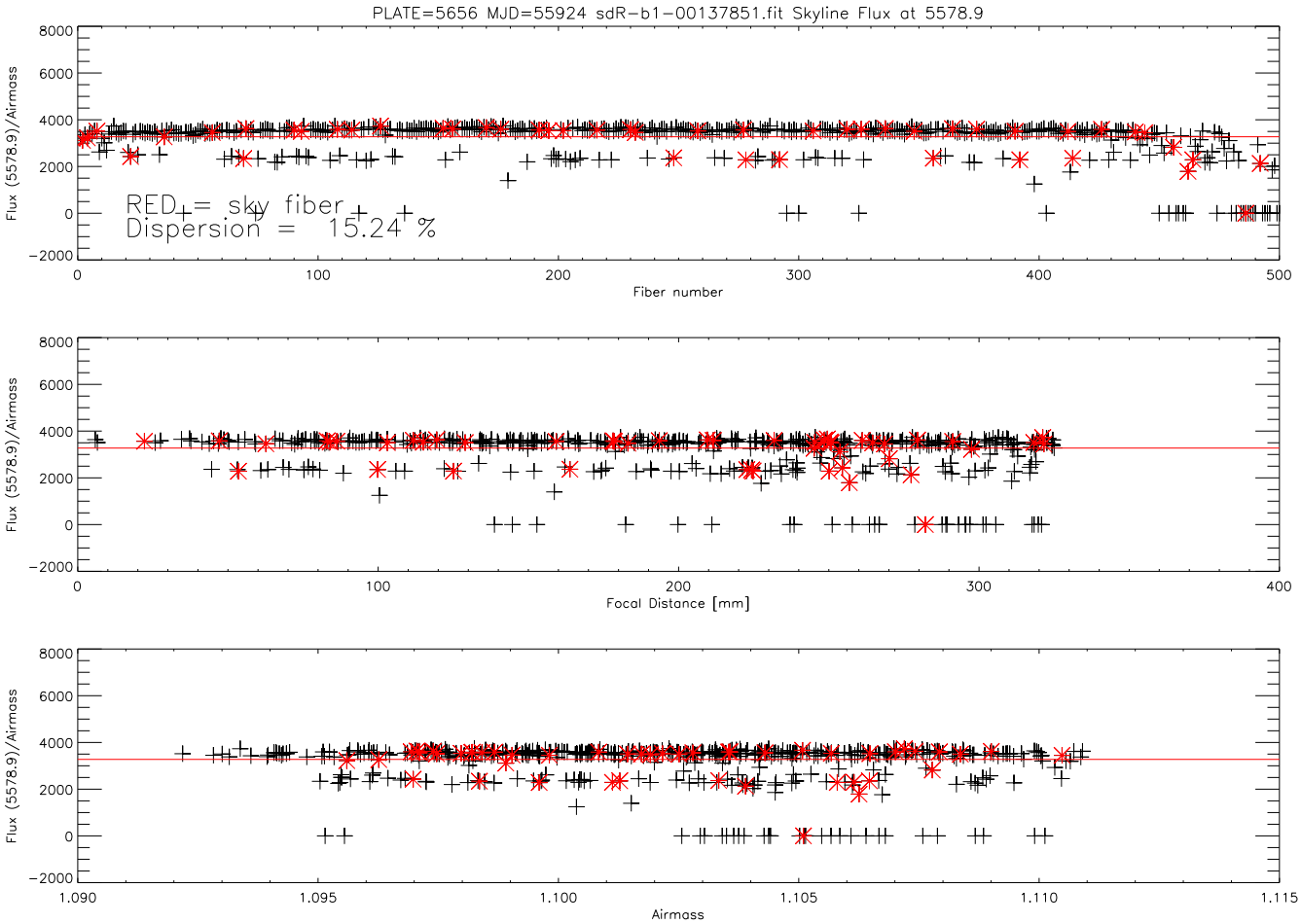

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

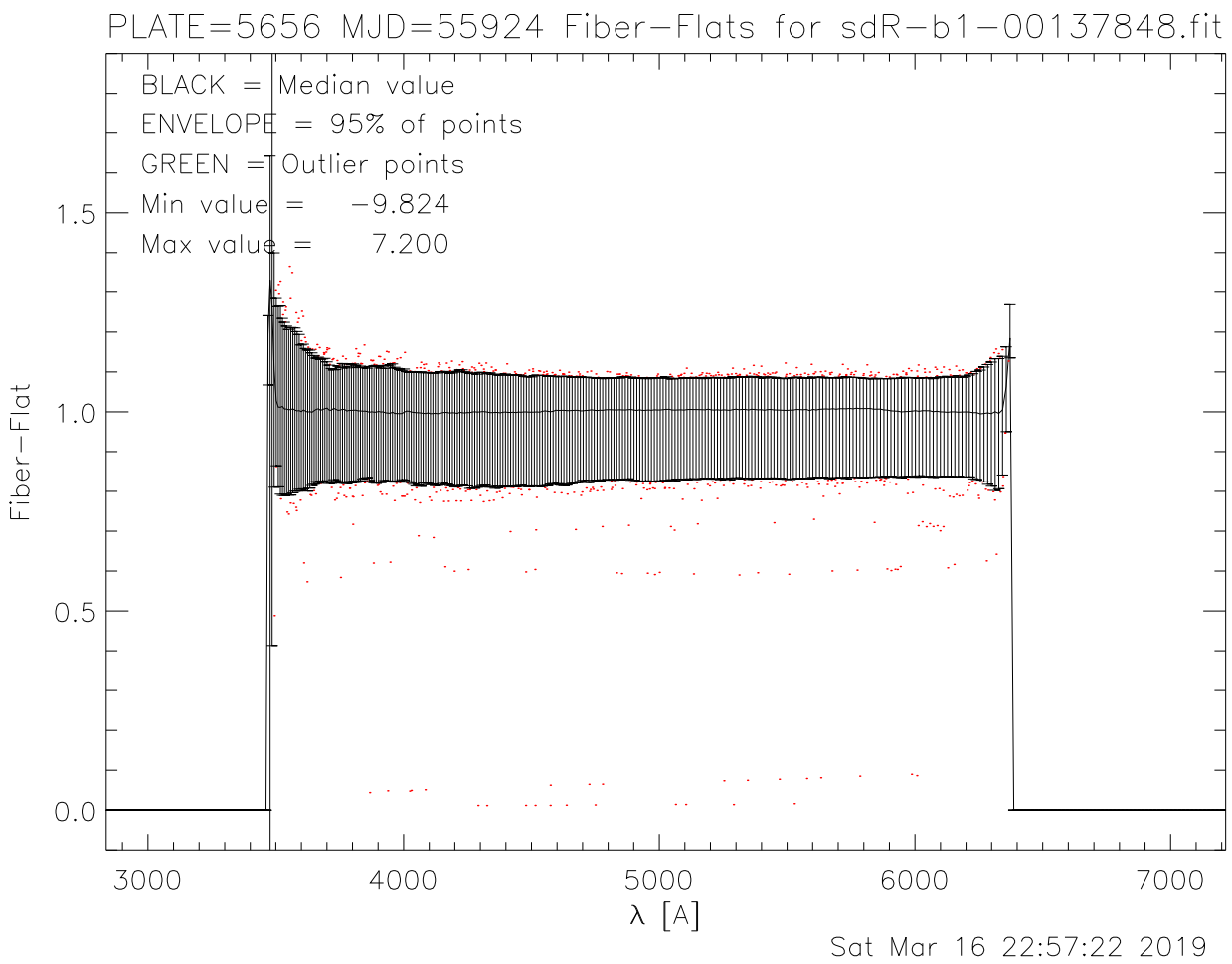

PLATE=5656 MJD=55924 sdR-b1-00137851.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

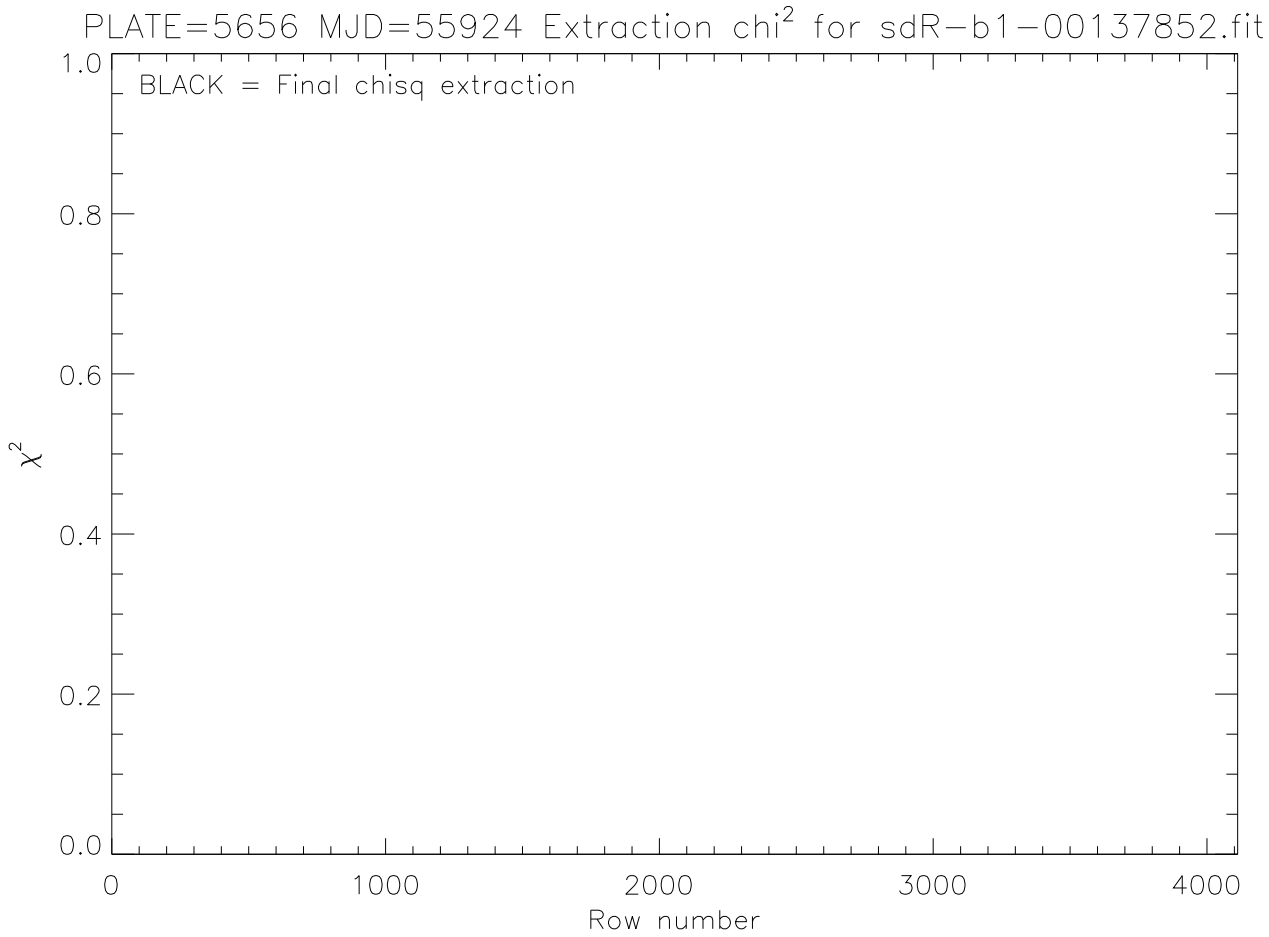
Number of sky fibers = 48

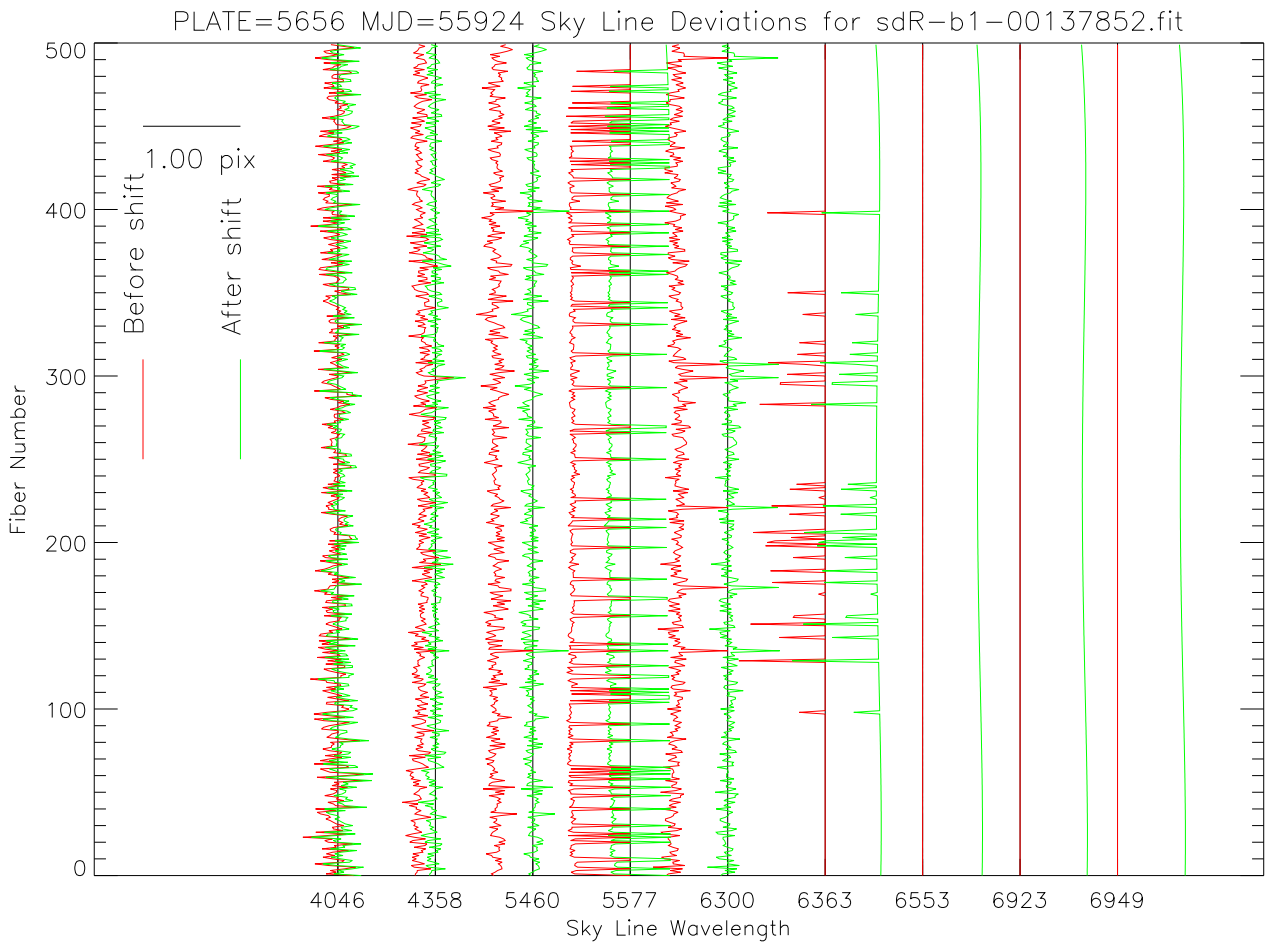


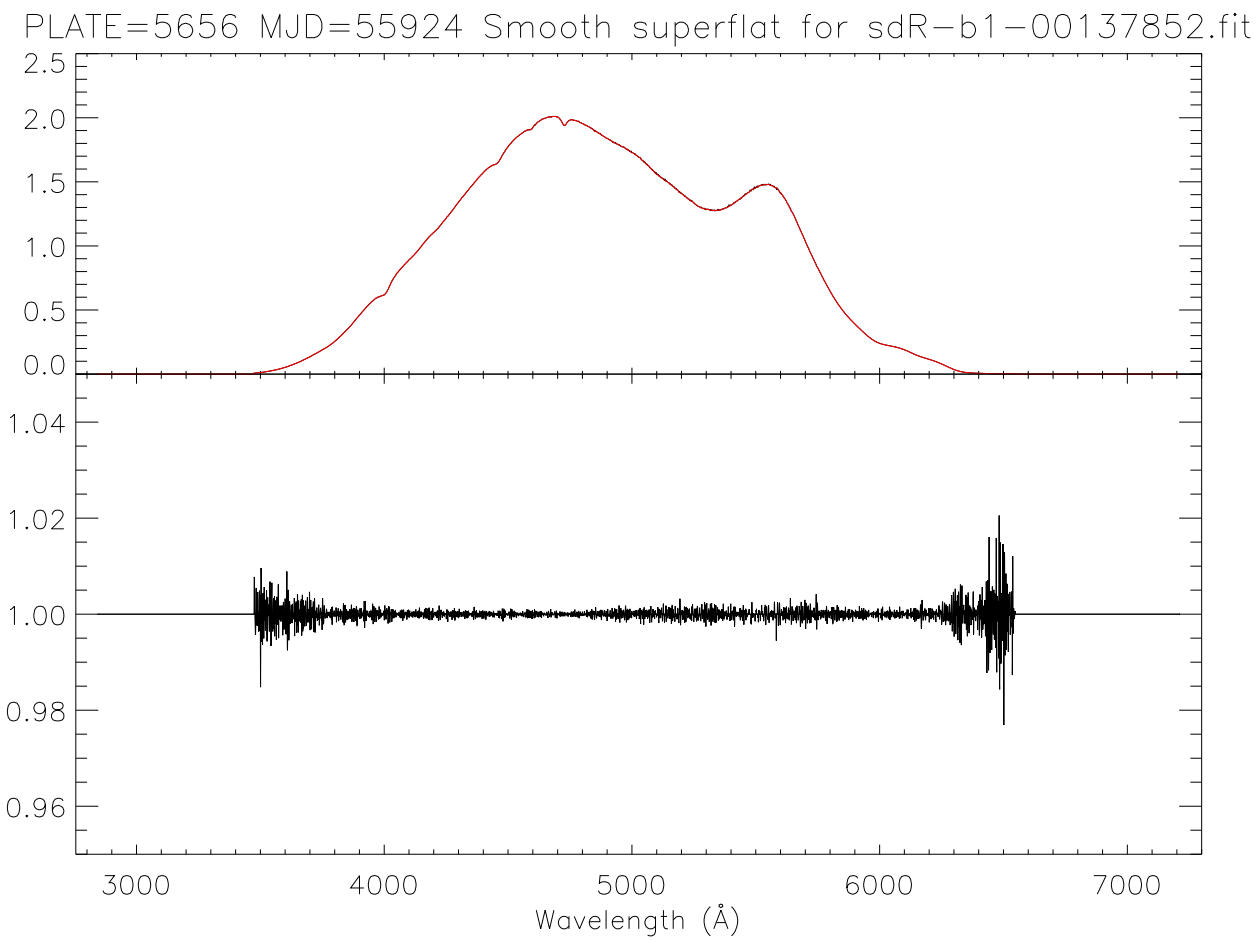

PLATE=5656 MJD=55924 sdR-b1-00137851.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.49 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

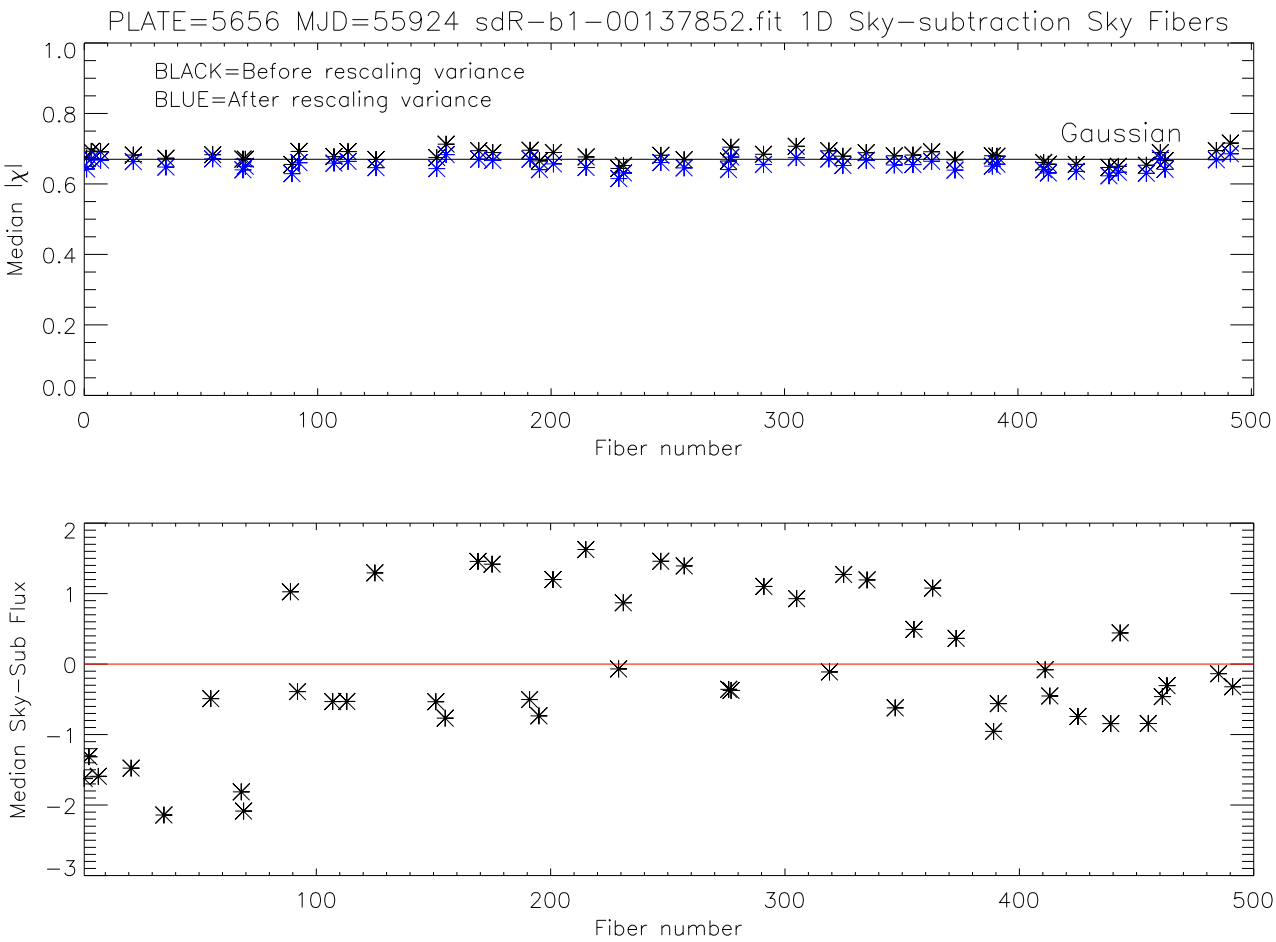

PLATE=5656 MJD=55924 sdR-b1-00137851.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED= sky fiber
Dispersion = 15.24 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

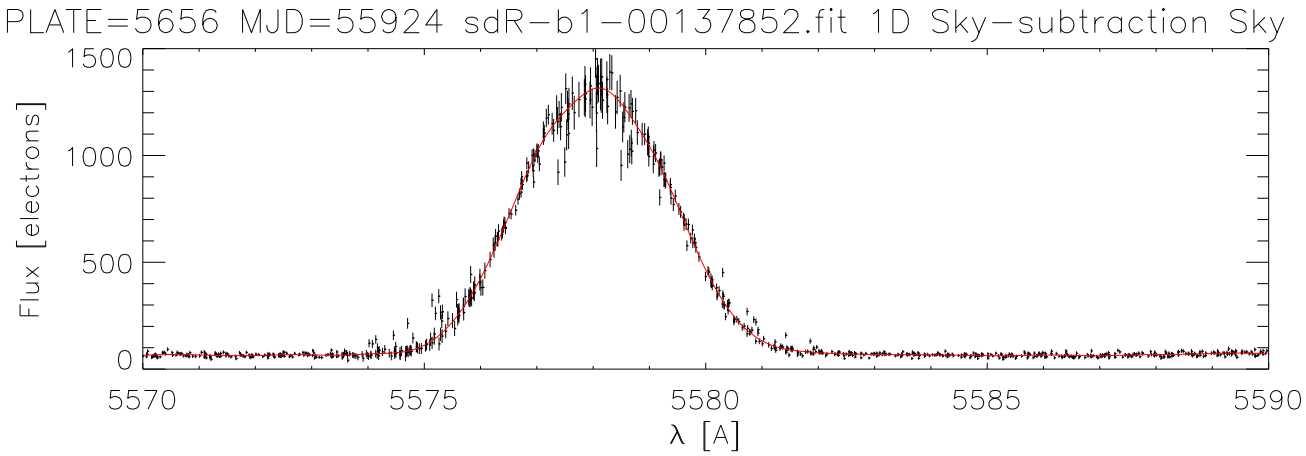

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b1-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -9.824
Max value = 7.200
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 22:57:22 2019

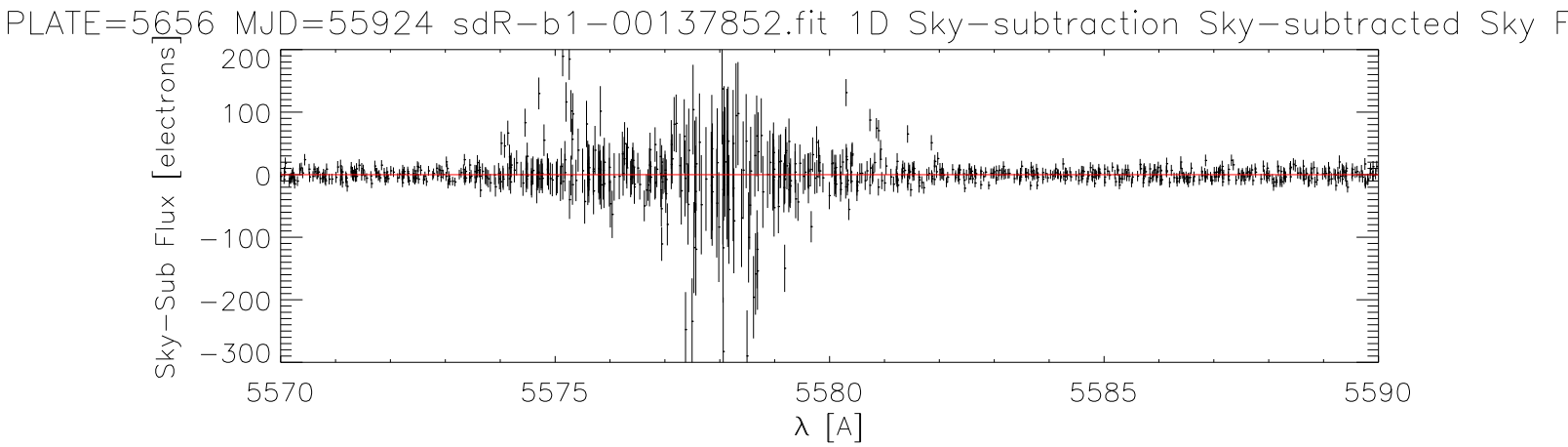

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−b1−00137852.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b1-00137852.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

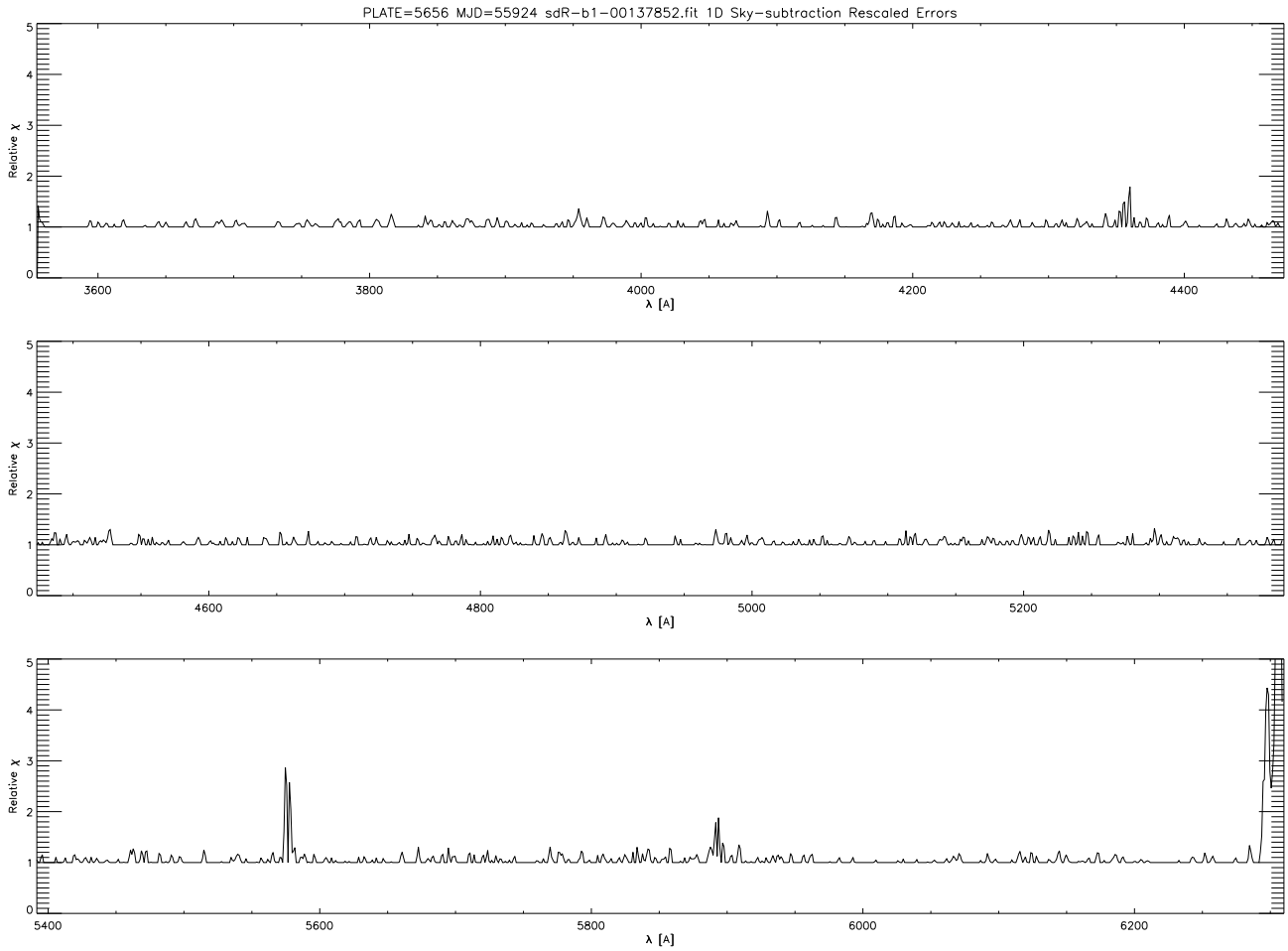

PLATE=5656 MJD=55924 Smooth superflat for sdR-b1-00137852.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

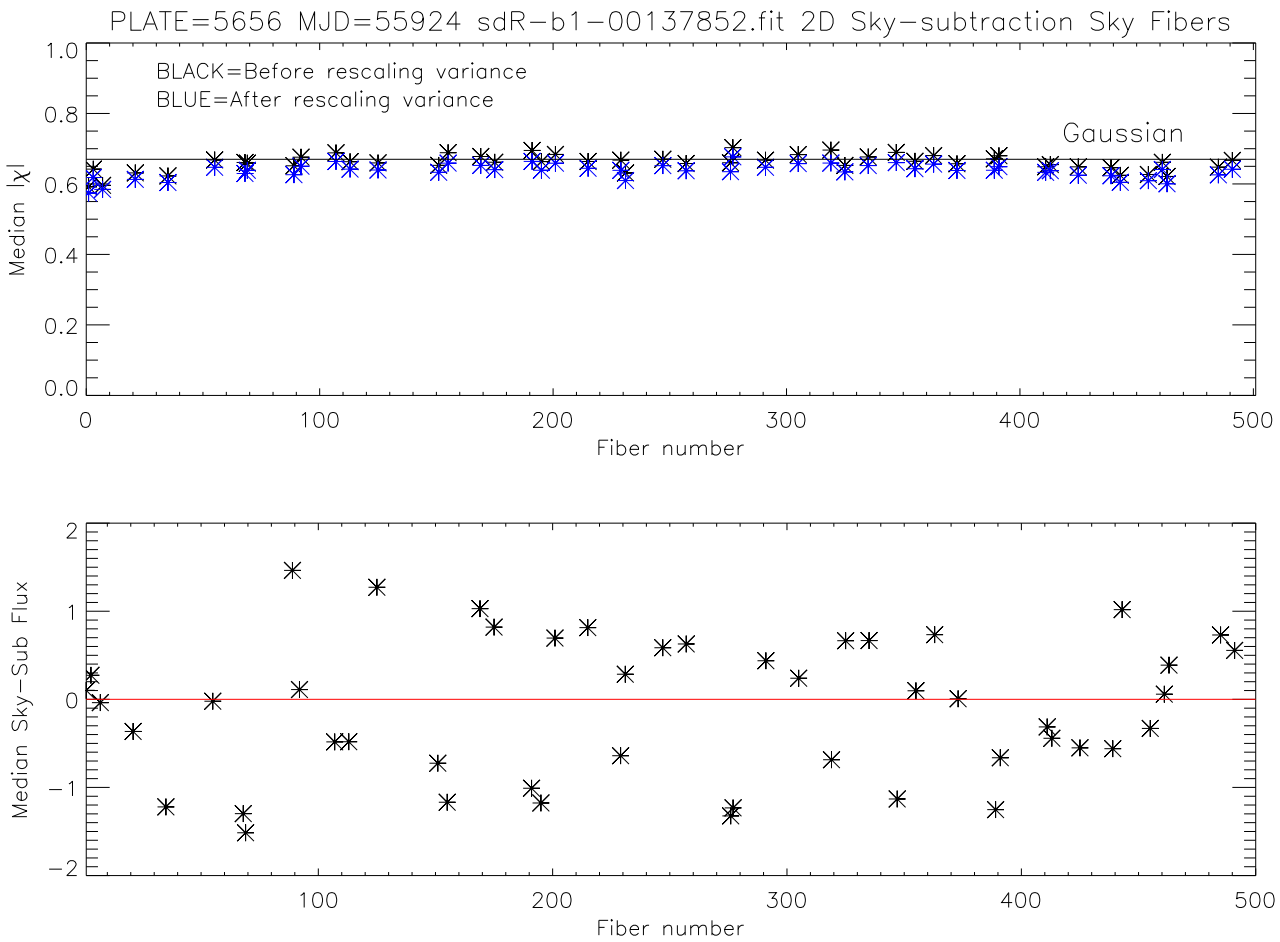

PLATE=5656 MJD=55924 sdR-b1-00137852.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

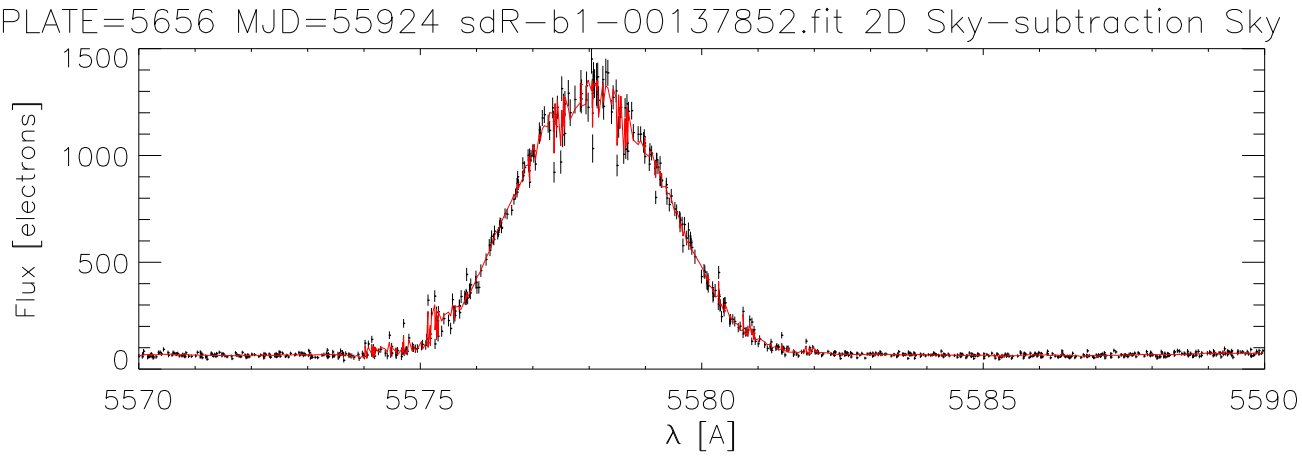

PLATE=5656 MJD=55924 sdR-b1-00137852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

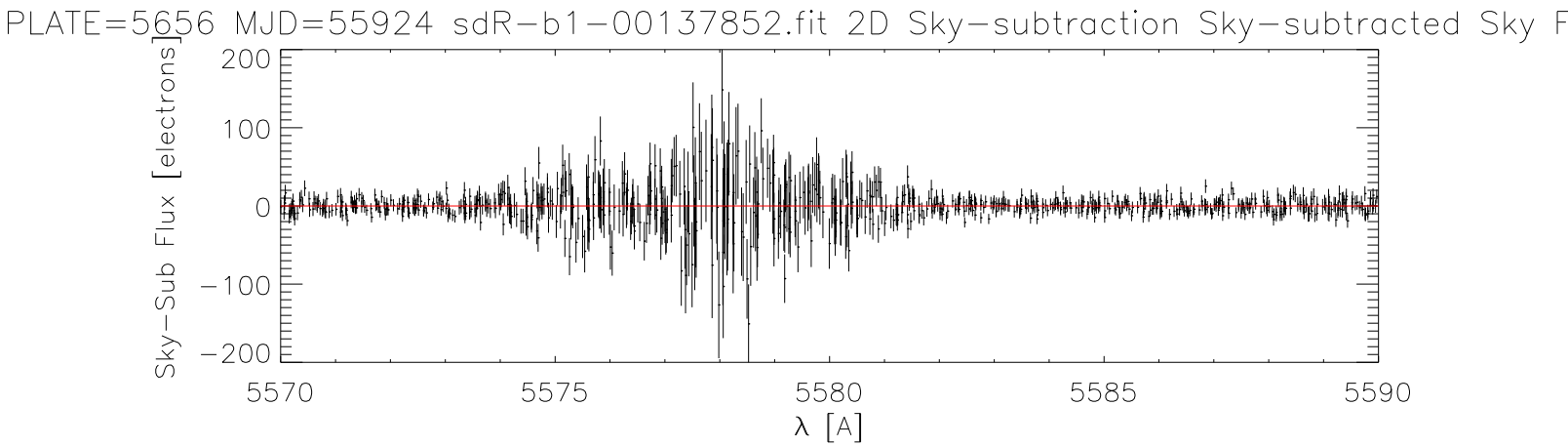

PLATE=5656 MJD=55924 sdR-b1-00137852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

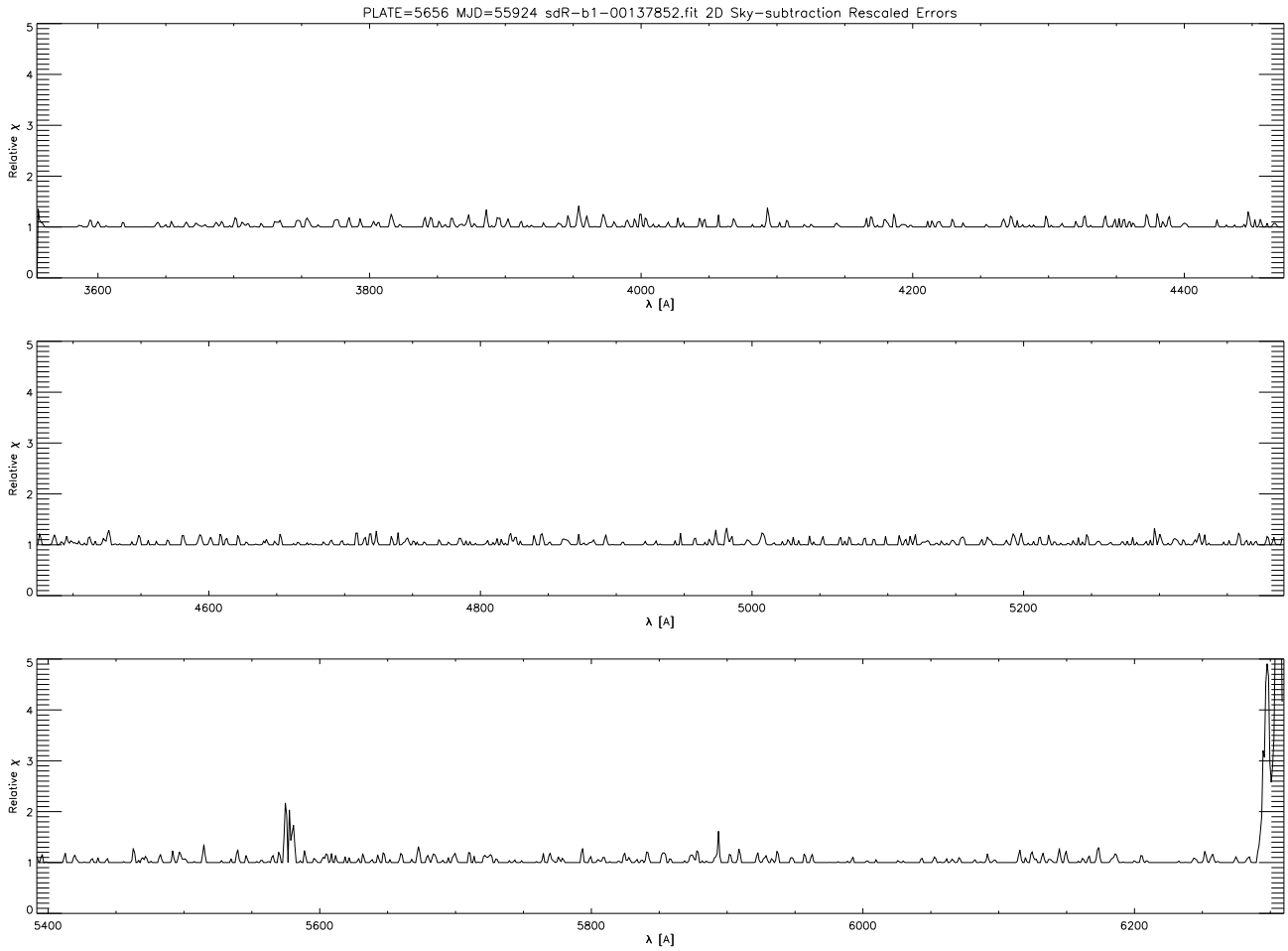


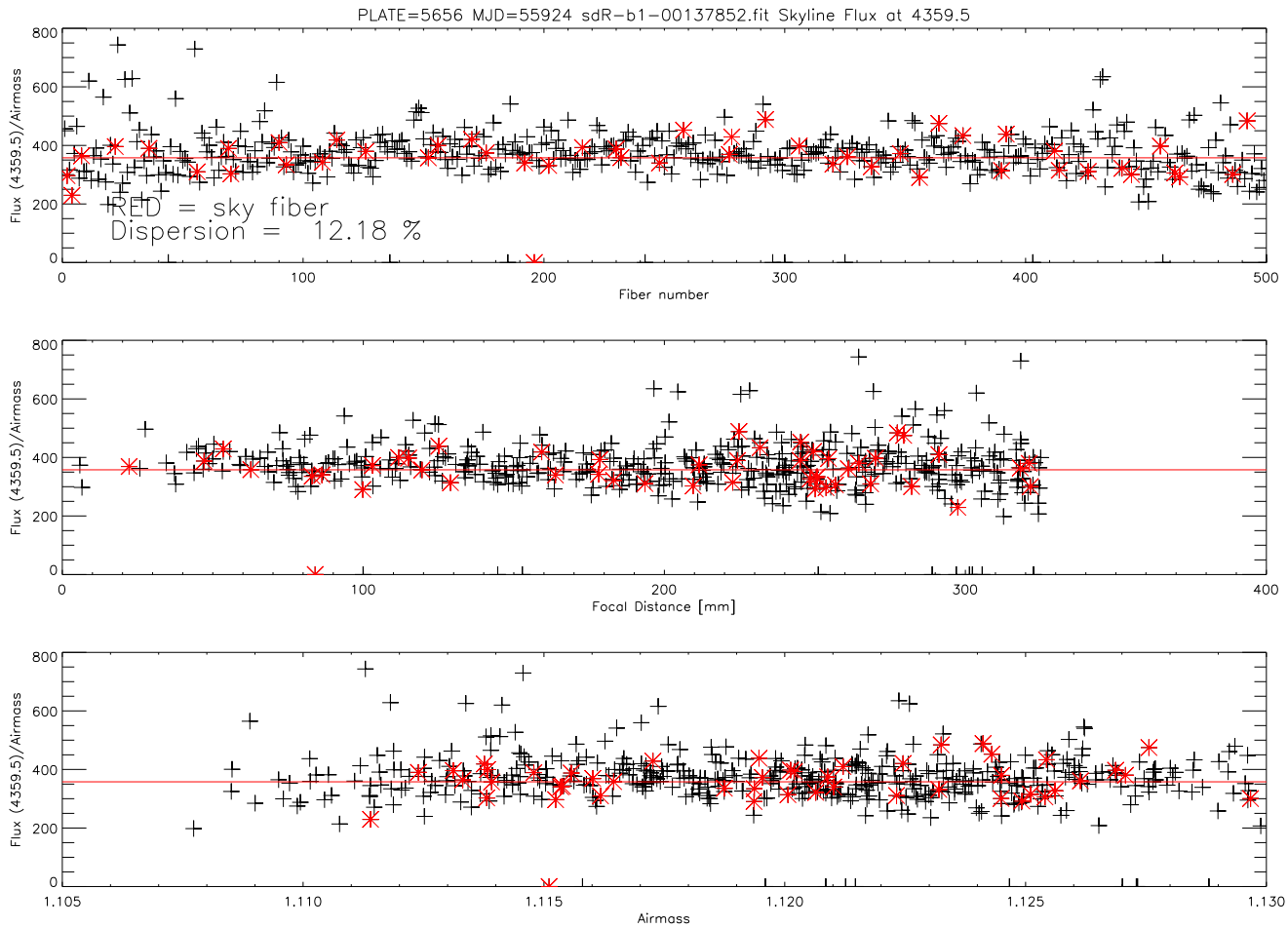

PLATE=5656 MJD=55924 sdR-b1-00137852.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

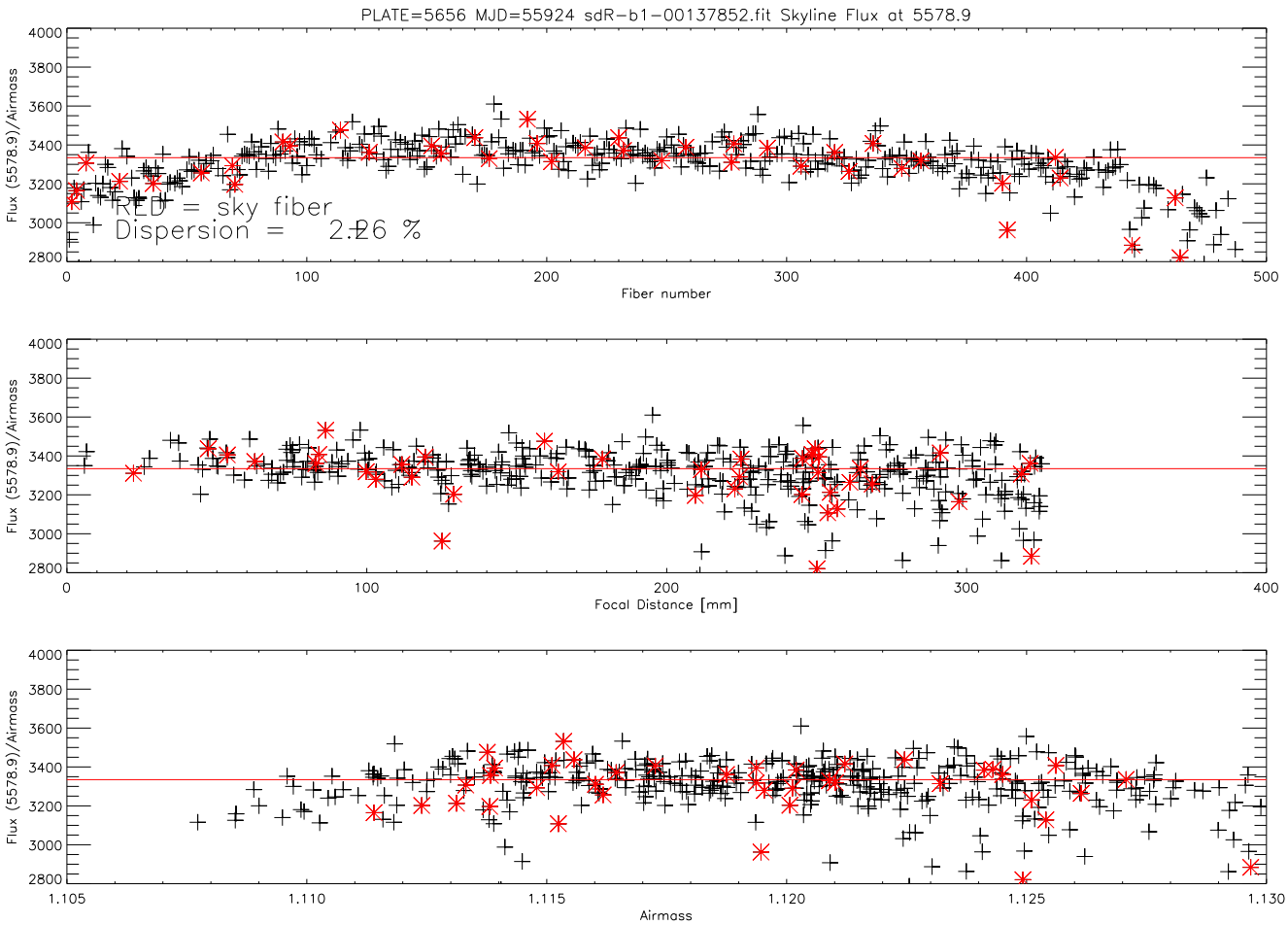

PLATE=5656 MJD=55924 sdR-b1-00137852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=5656 MJD=55924 sdR-b1-00137852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

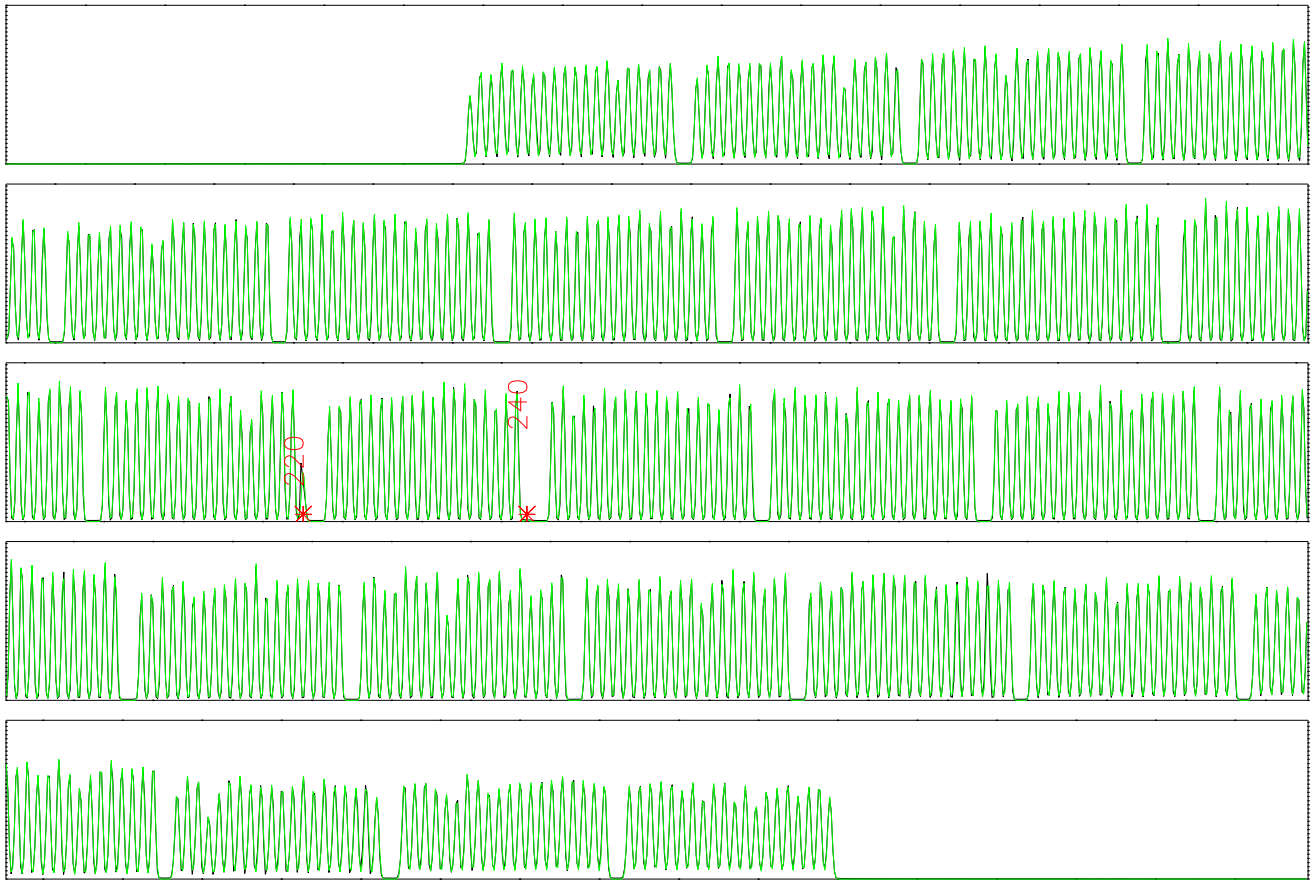
Number of sky fibers = 48

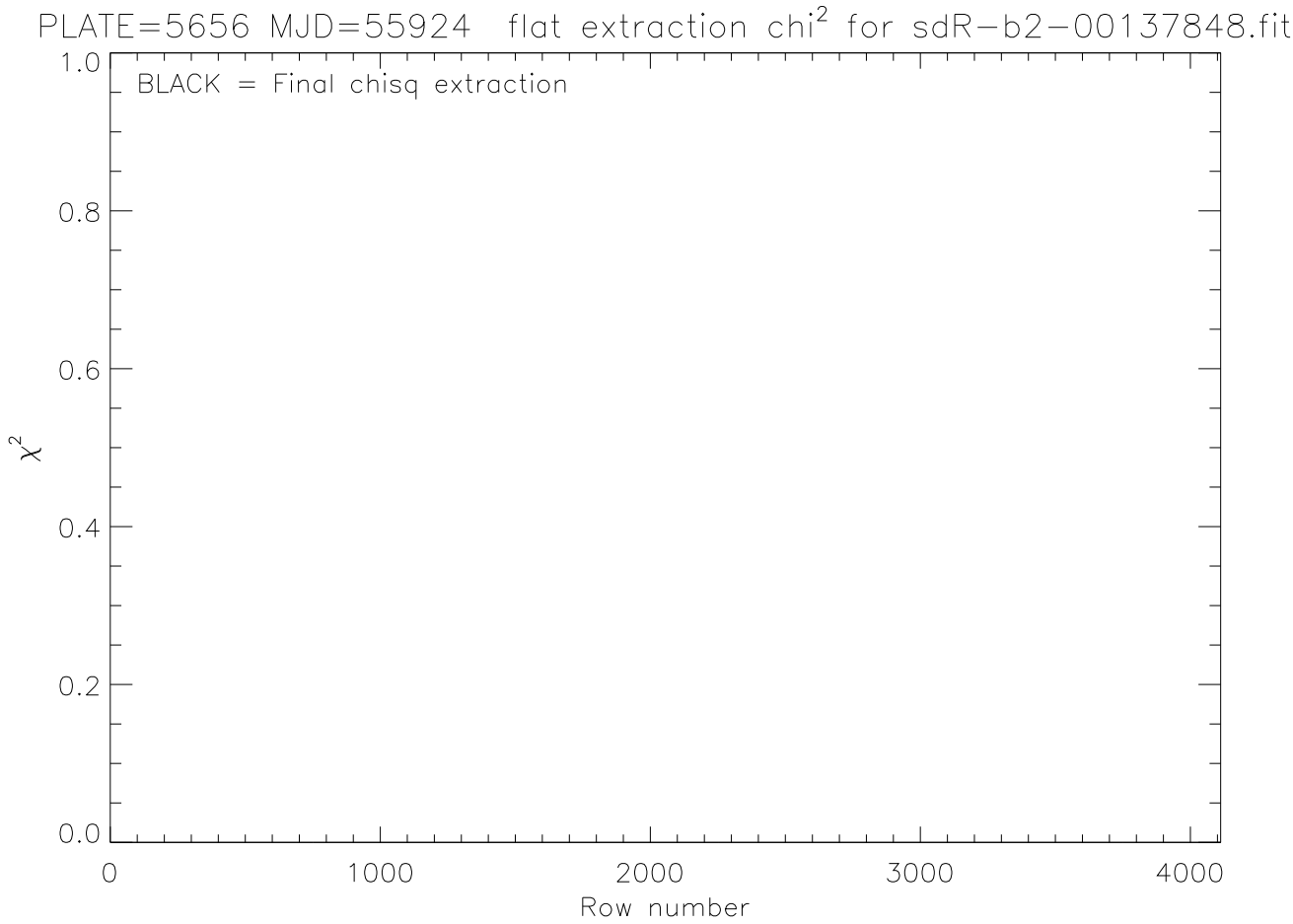


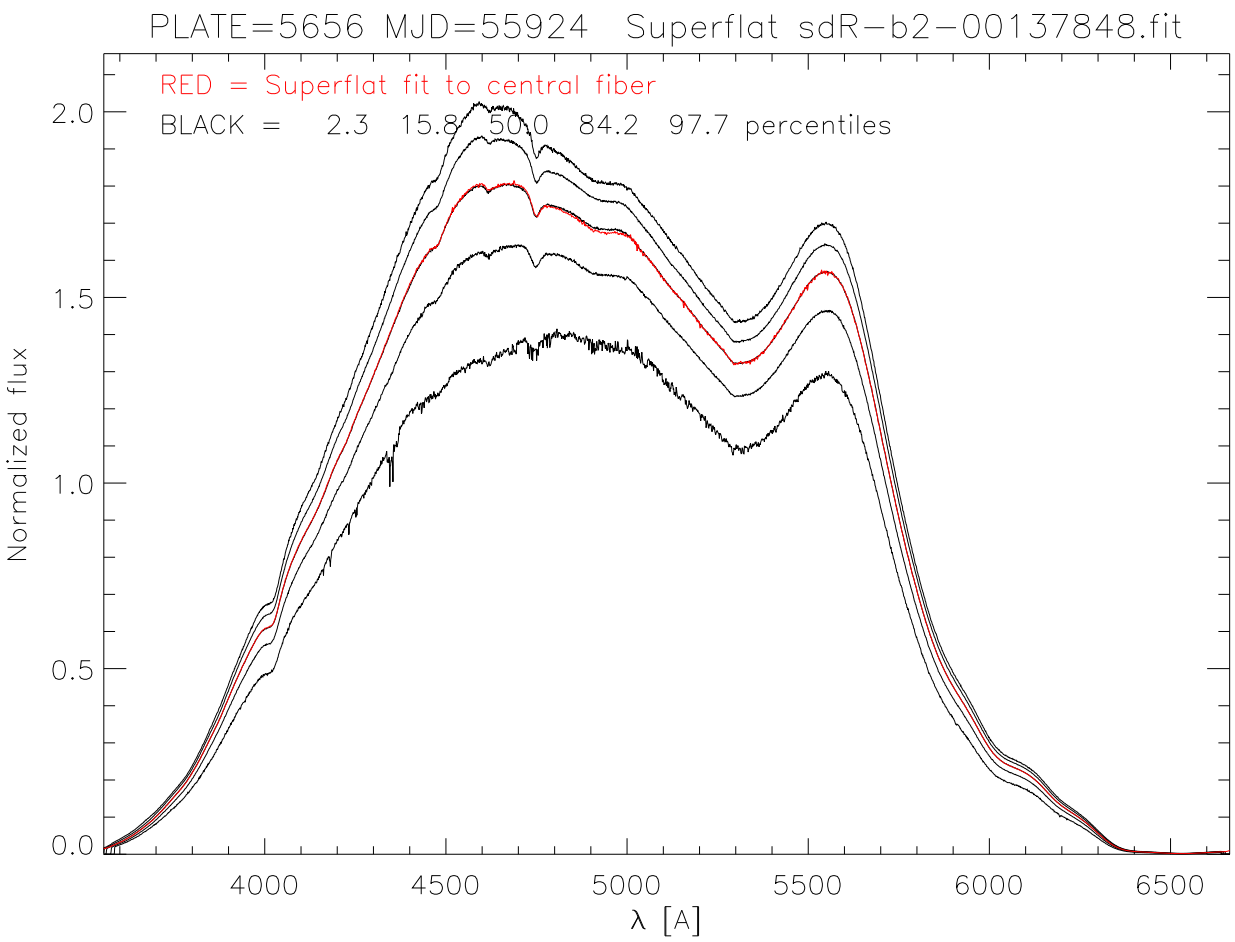

PLATE=5656 MJD=55924 sdR-b1-00137852.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.18 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

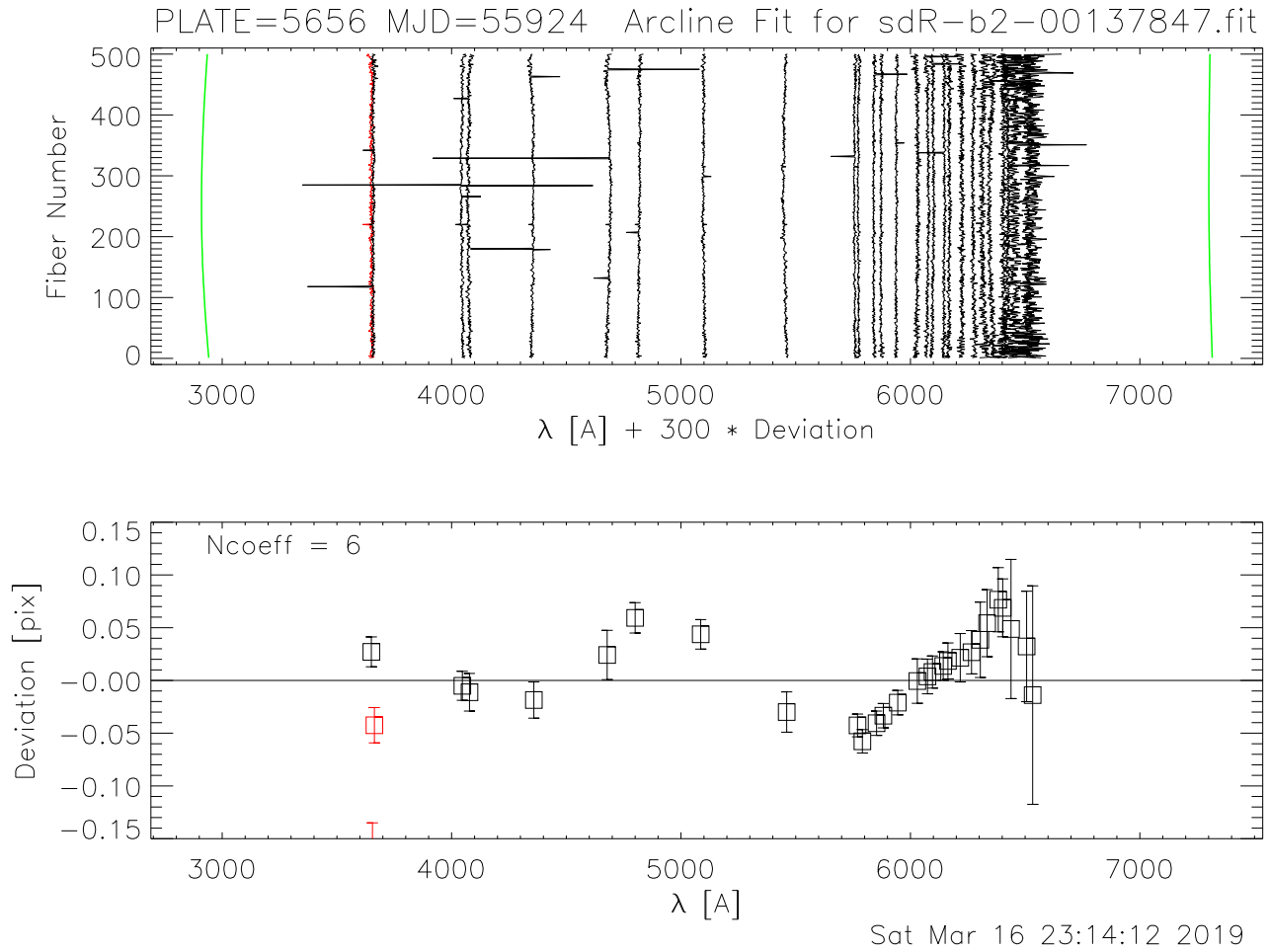

PLATE=5656 MJD=55924 sdR-b1-00137852.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.26 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

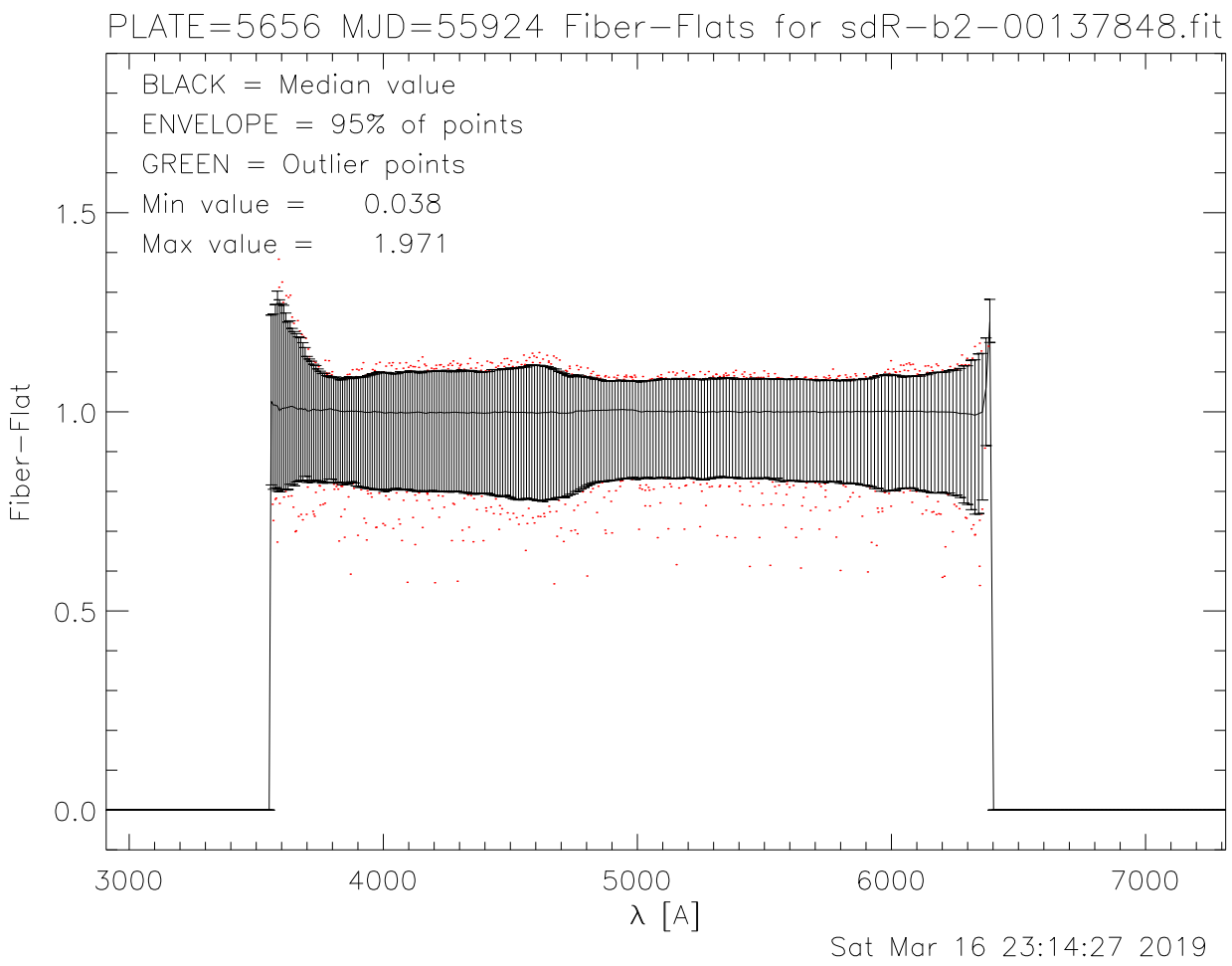
PLATE=5656 MJD=55924 Traces sdR-b2-00137848.fit

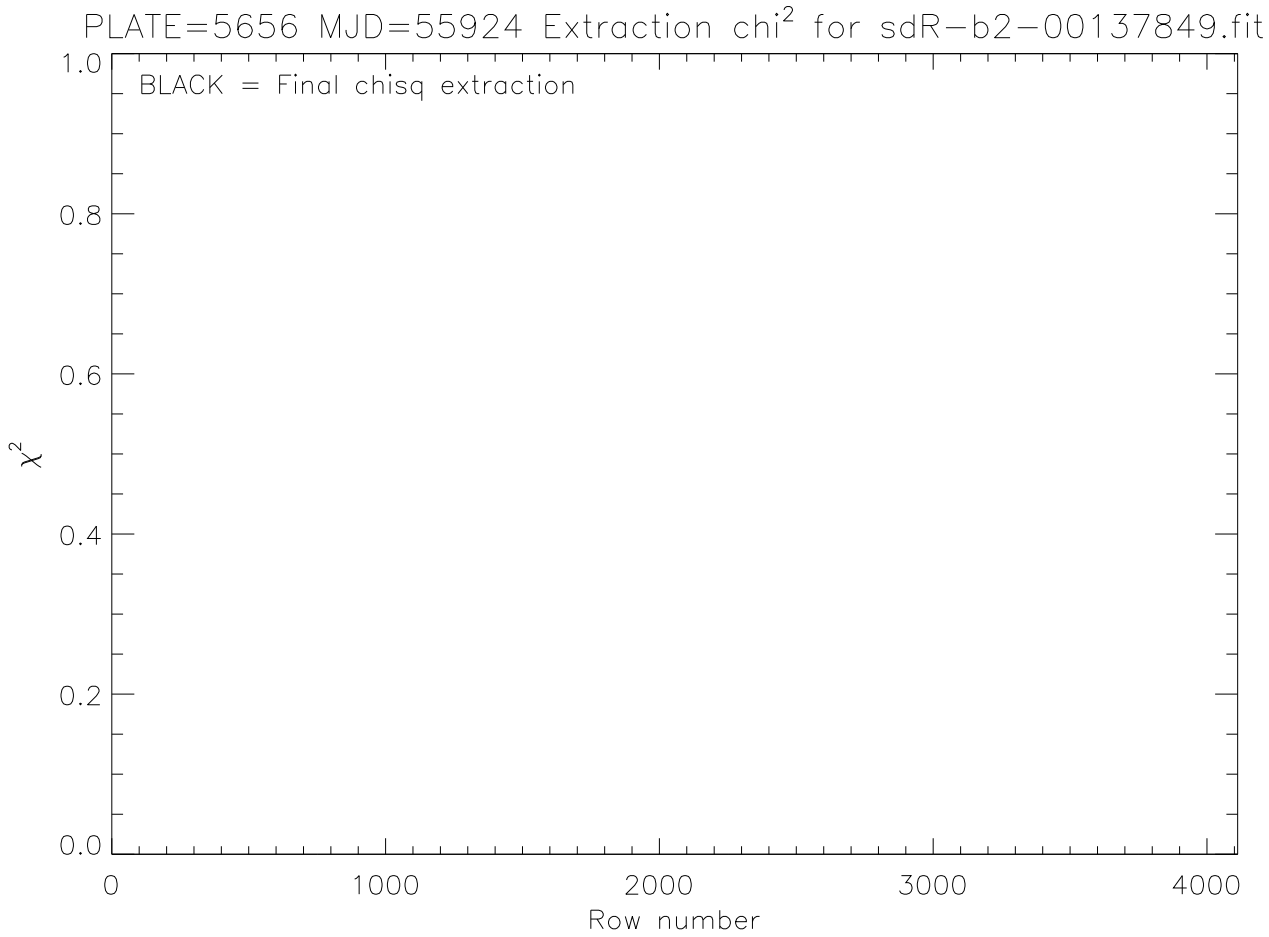


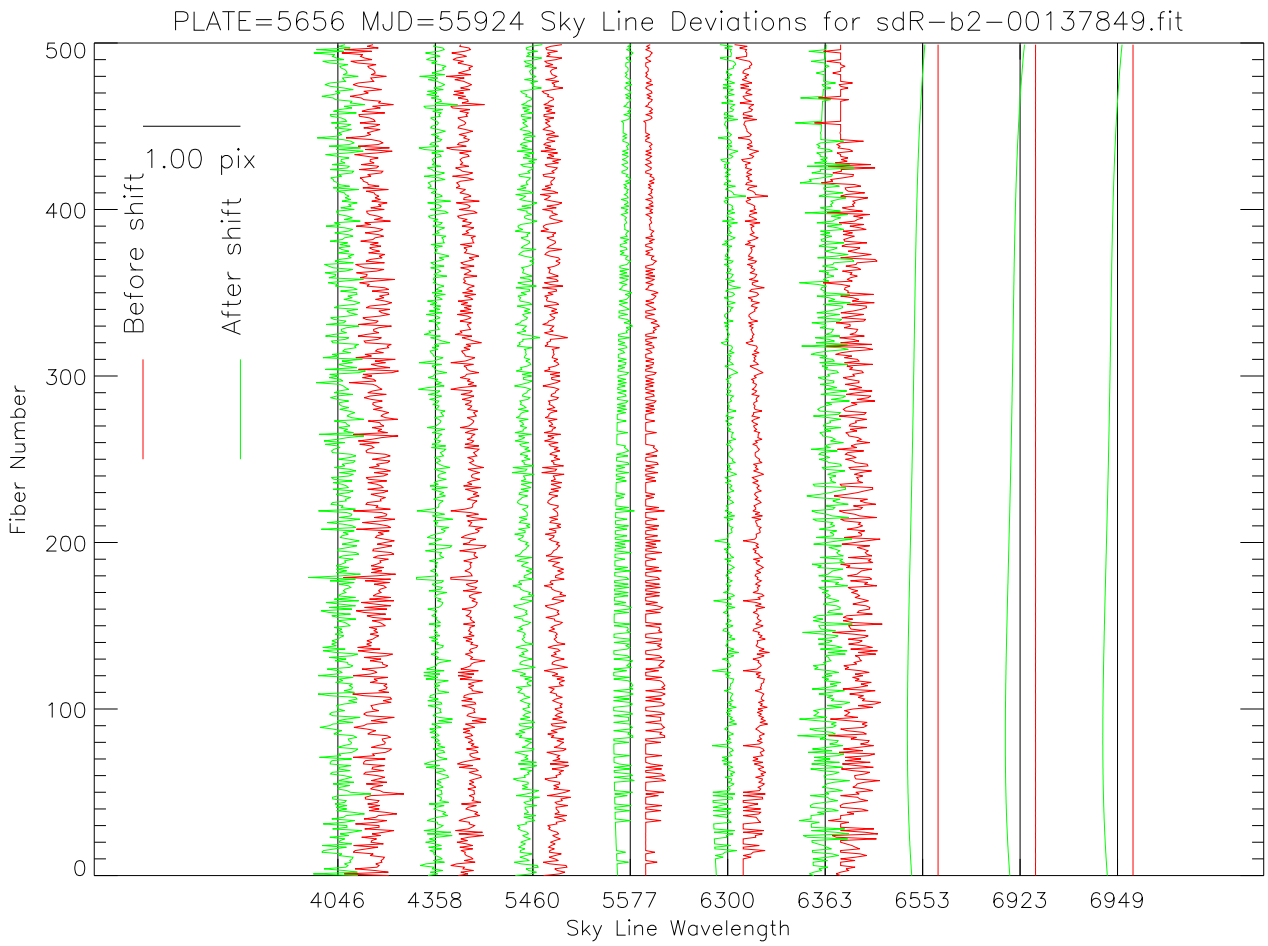

PLATE=5656 MJD=55924 flat extraction chi^2 for sdR-b2-00137848.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

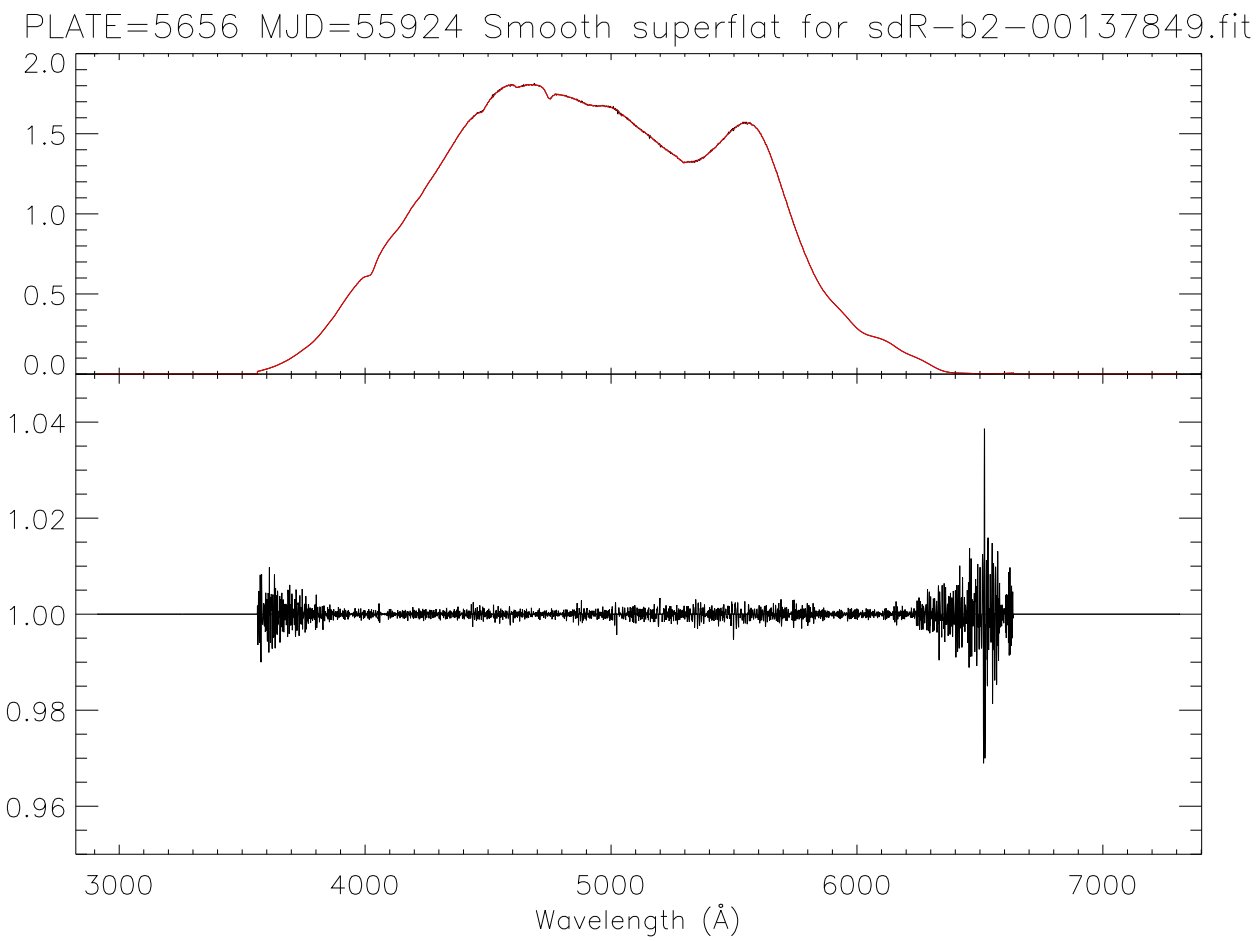

PLATE=5656 MJD=55924 Superflat sdR-b2-00137848.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

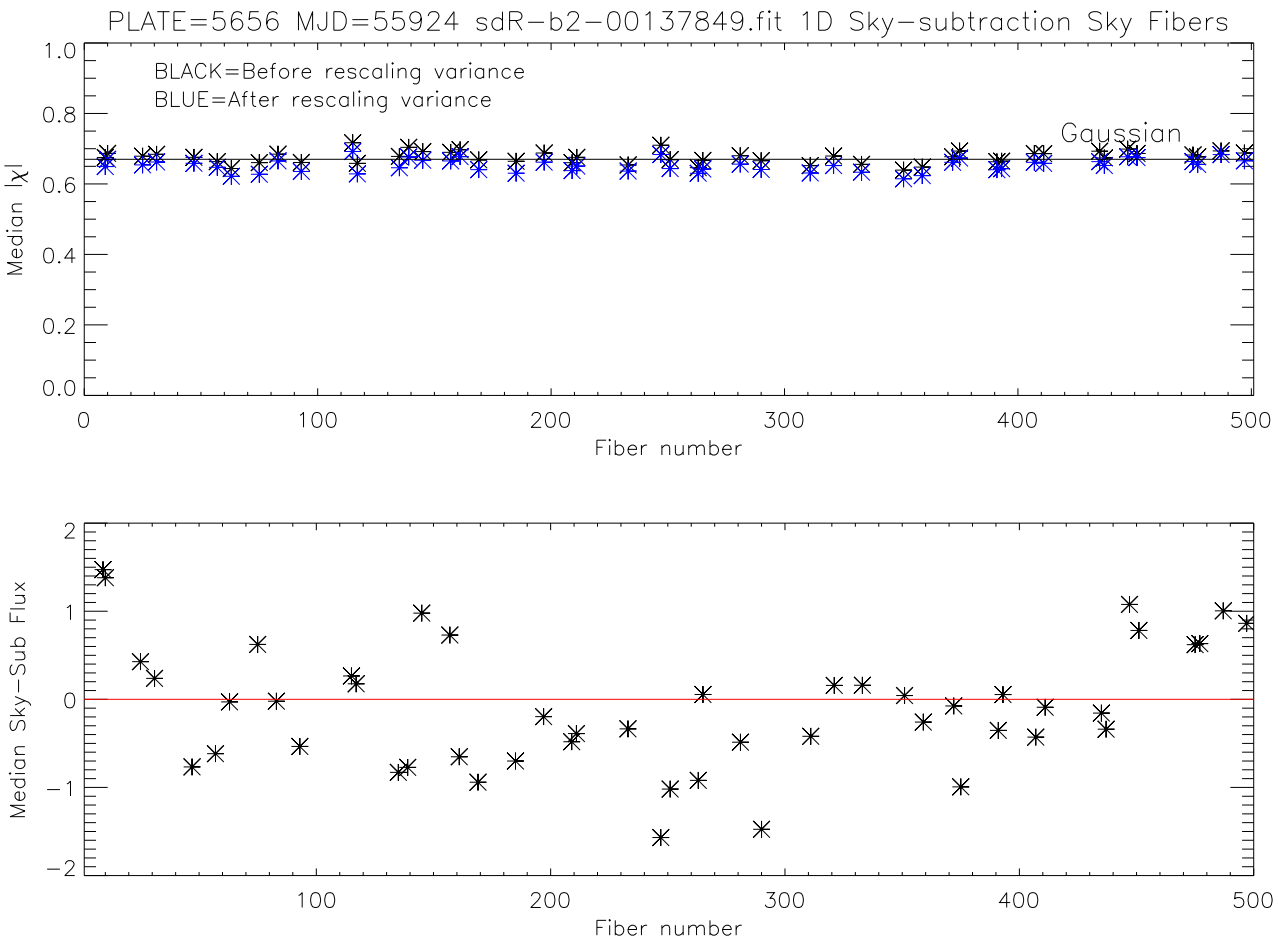

PLATE=5656 MJD=55924 Arcline Fit for sdR-b2-00137847.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 23:14:12 2019

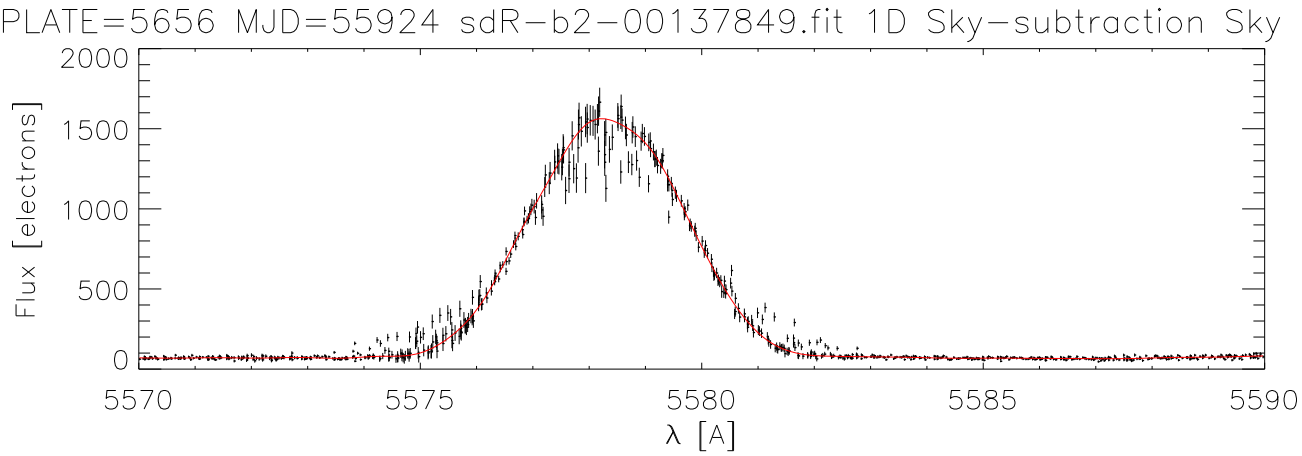

PLATE=5656 MJD=55924 Fiber−Flats for sdR−b2−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.038
Max value = 1.971
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 23:14:27 2019

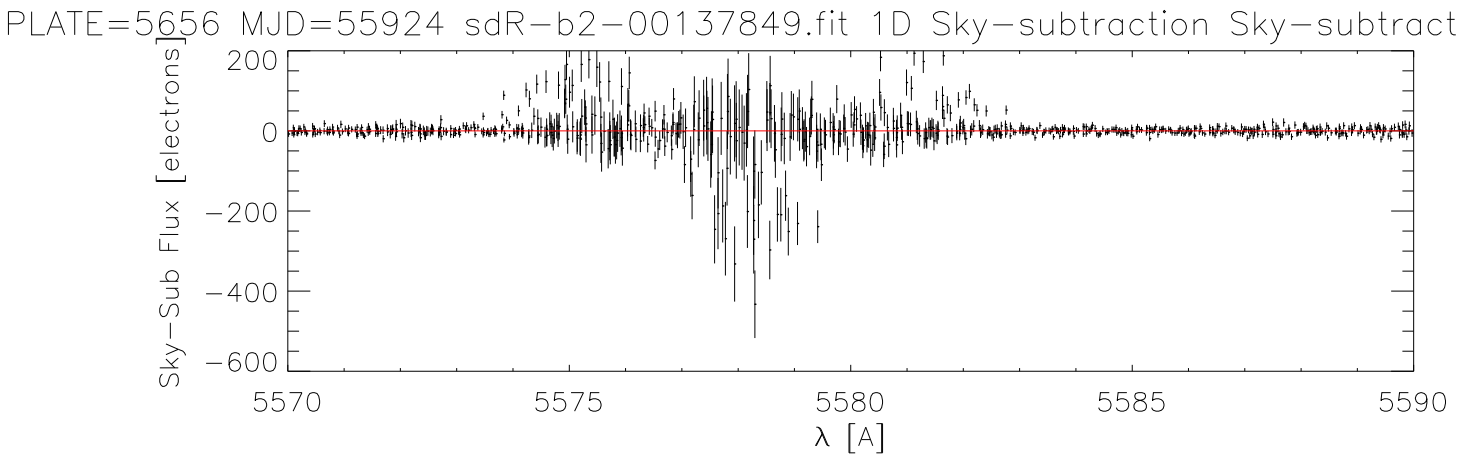

PLATE=5656 MJD=55924 Extraction chi^2 for sdR-b2-00137849.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b2-00137849.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

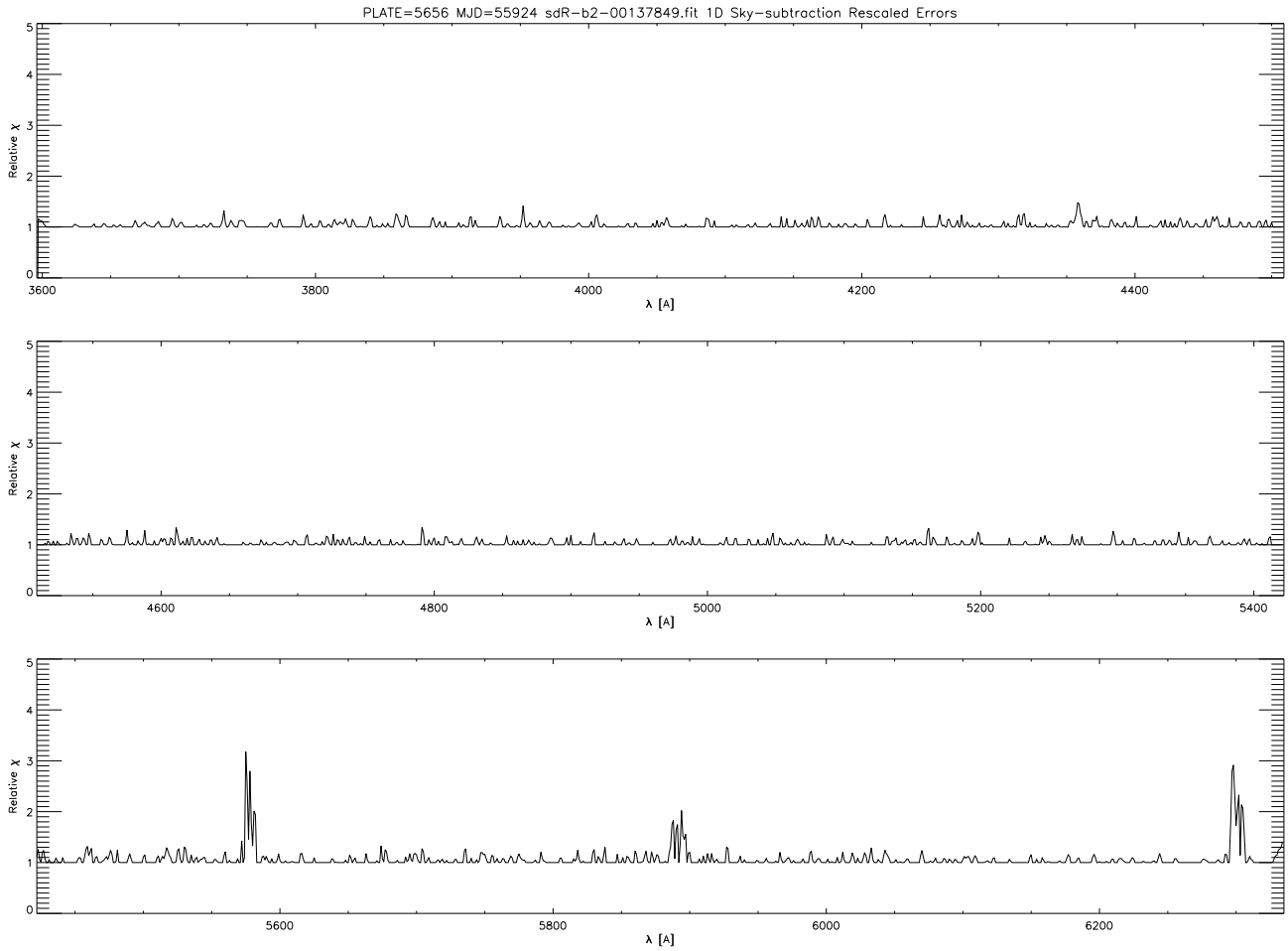

PLATE=5656 MJD=55924 Smooth superflat for sdR-b2-00137849.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

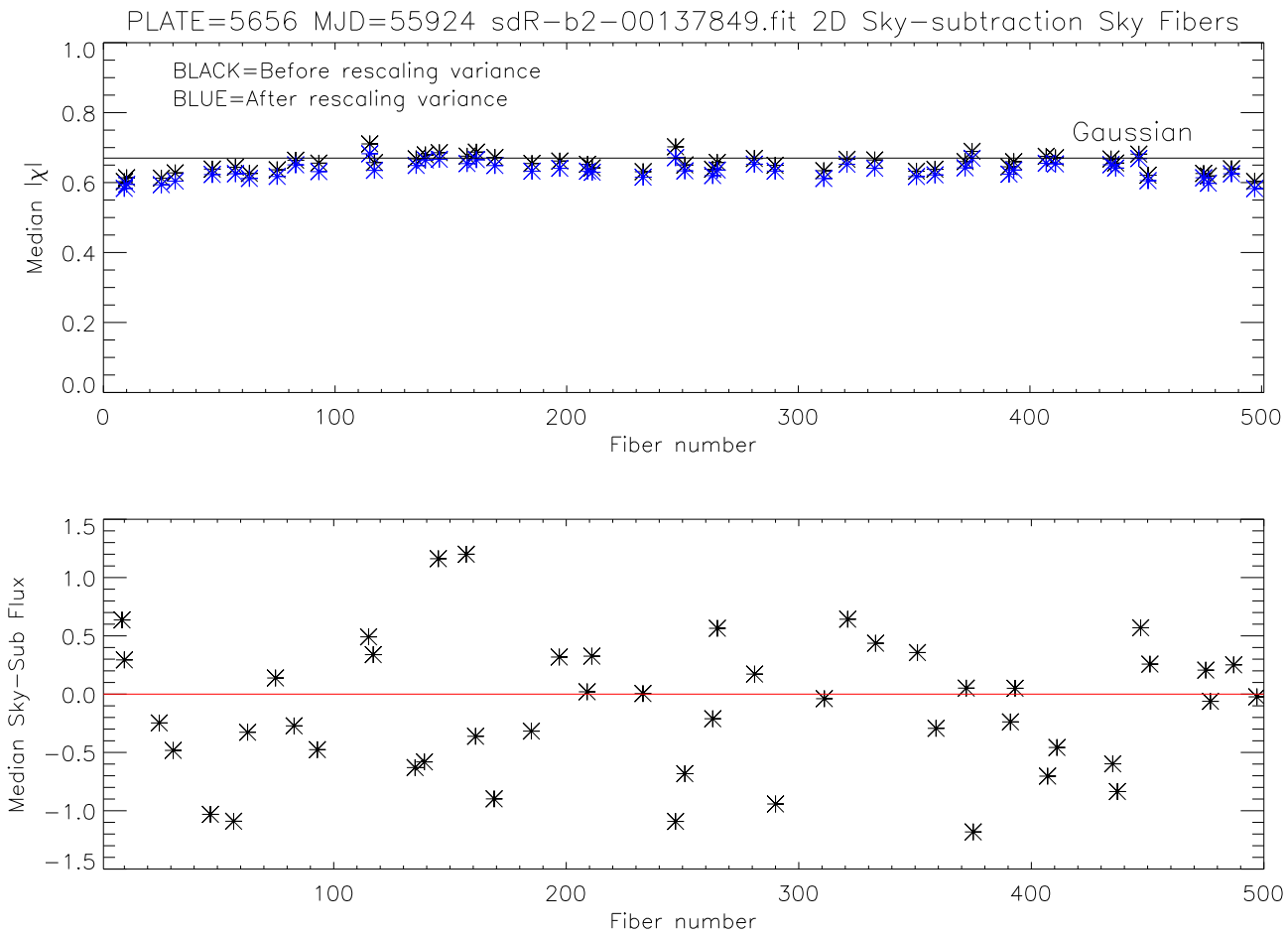

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

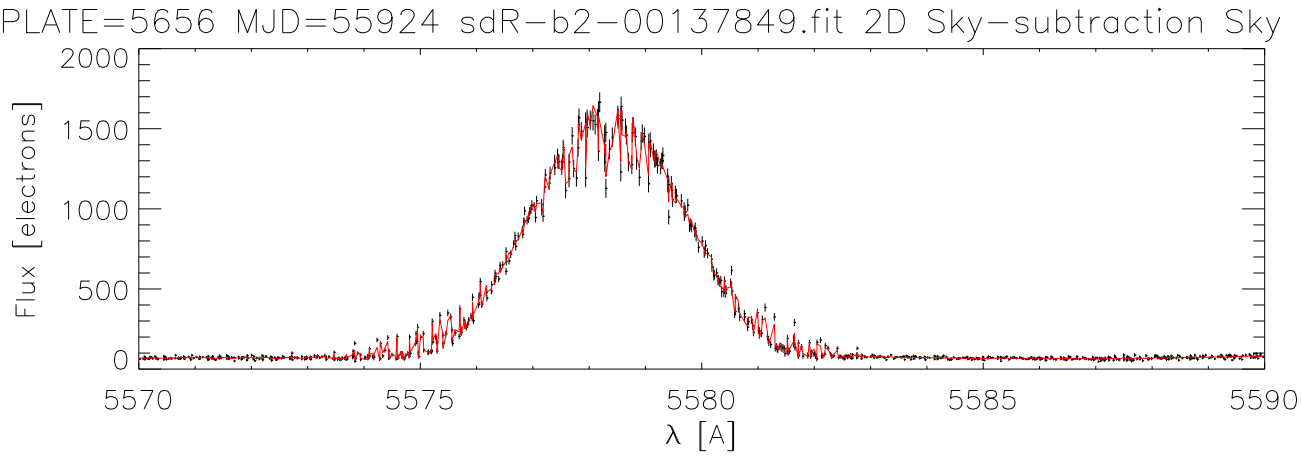

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

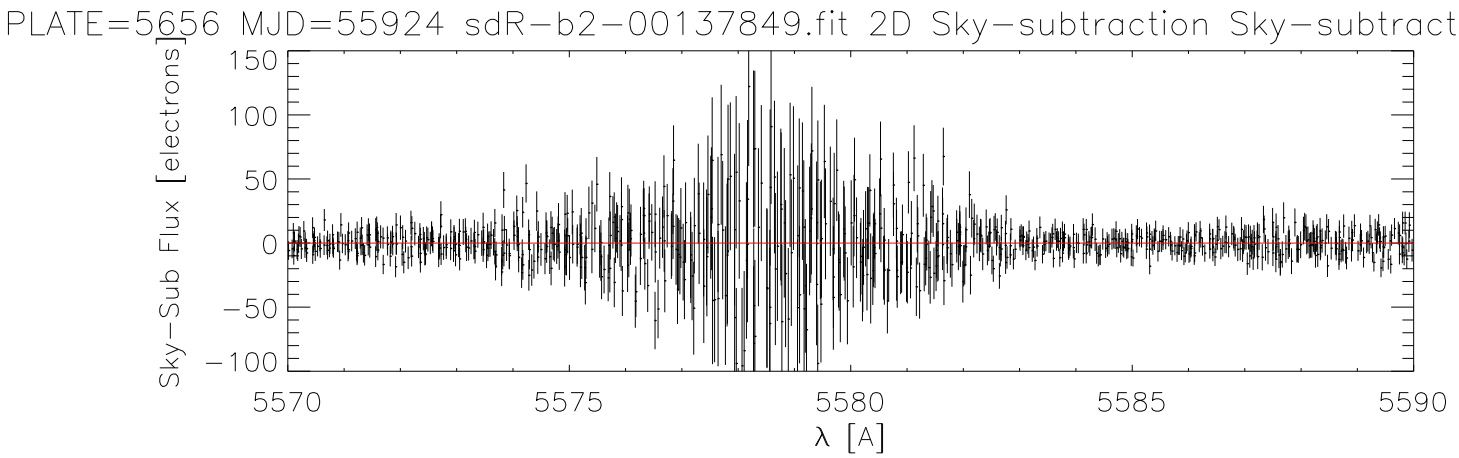

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

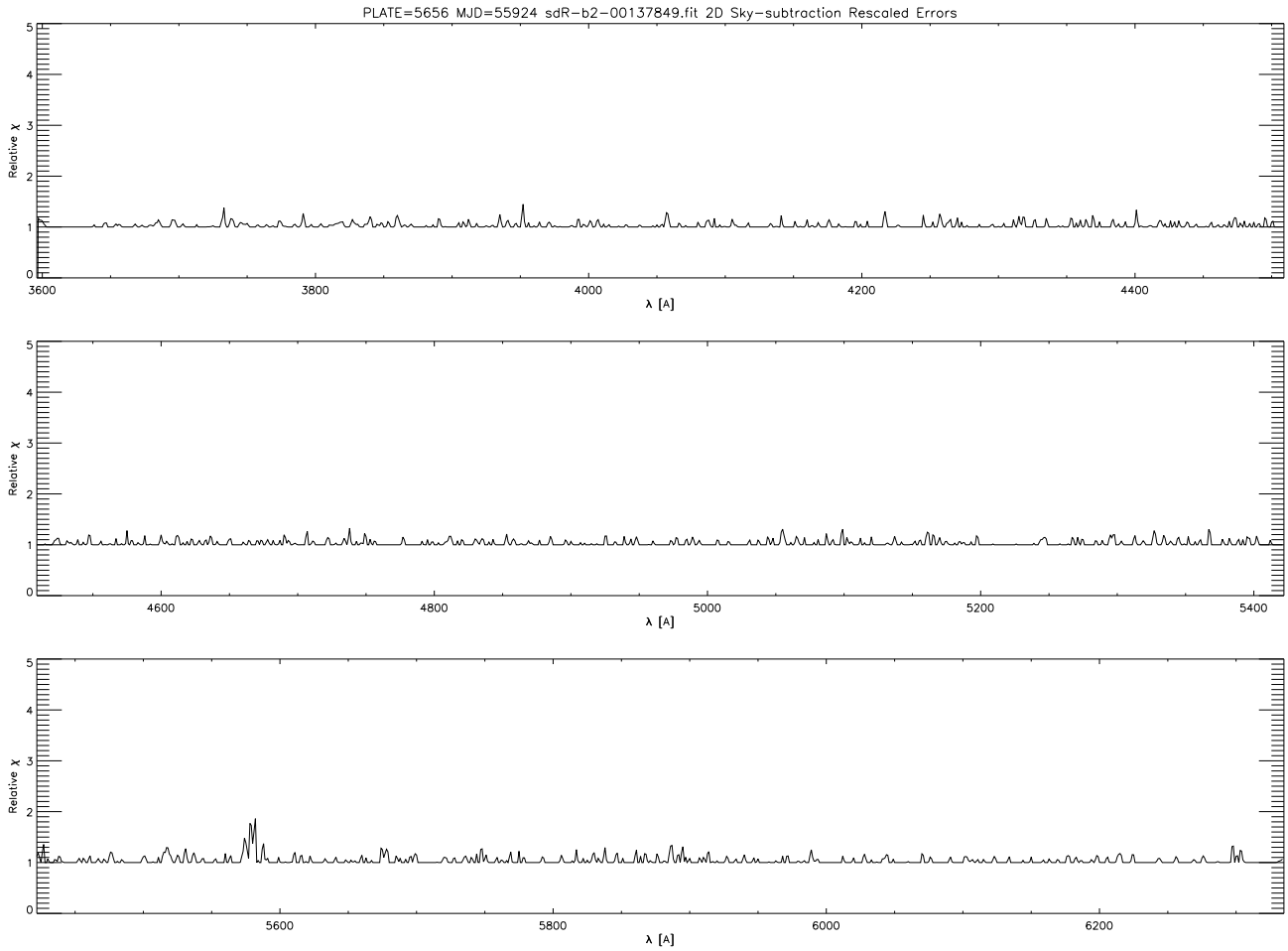


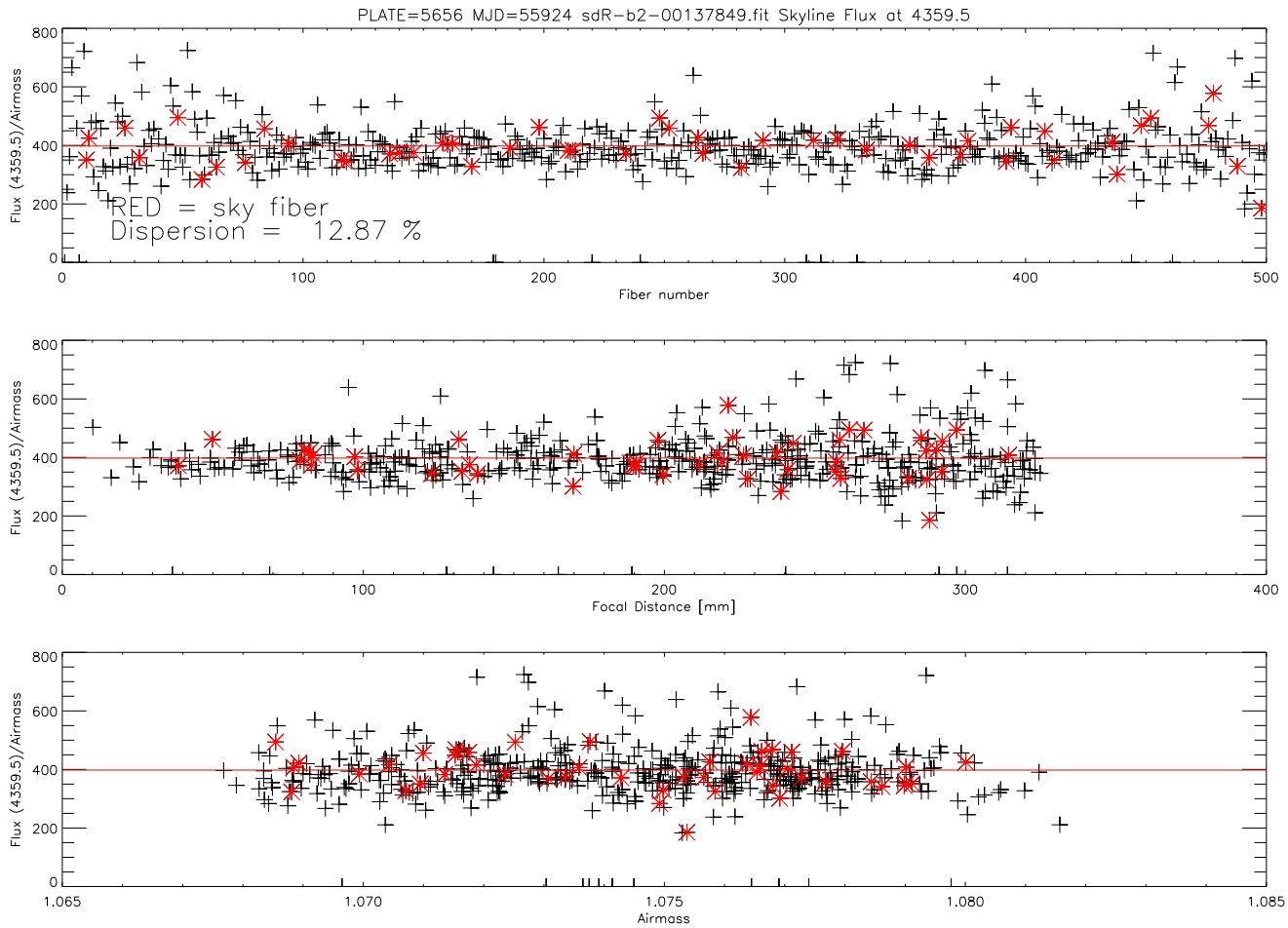

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

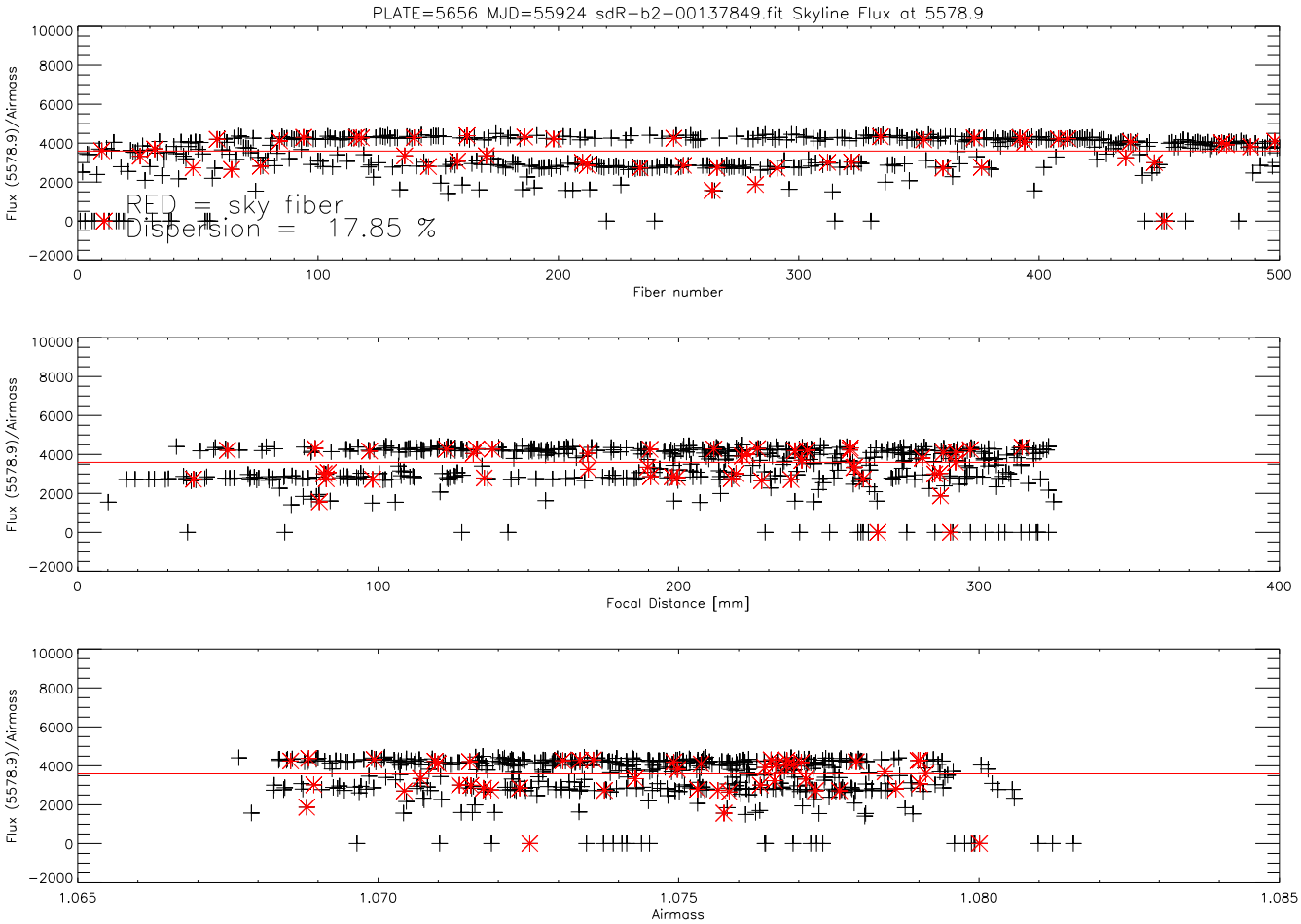

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

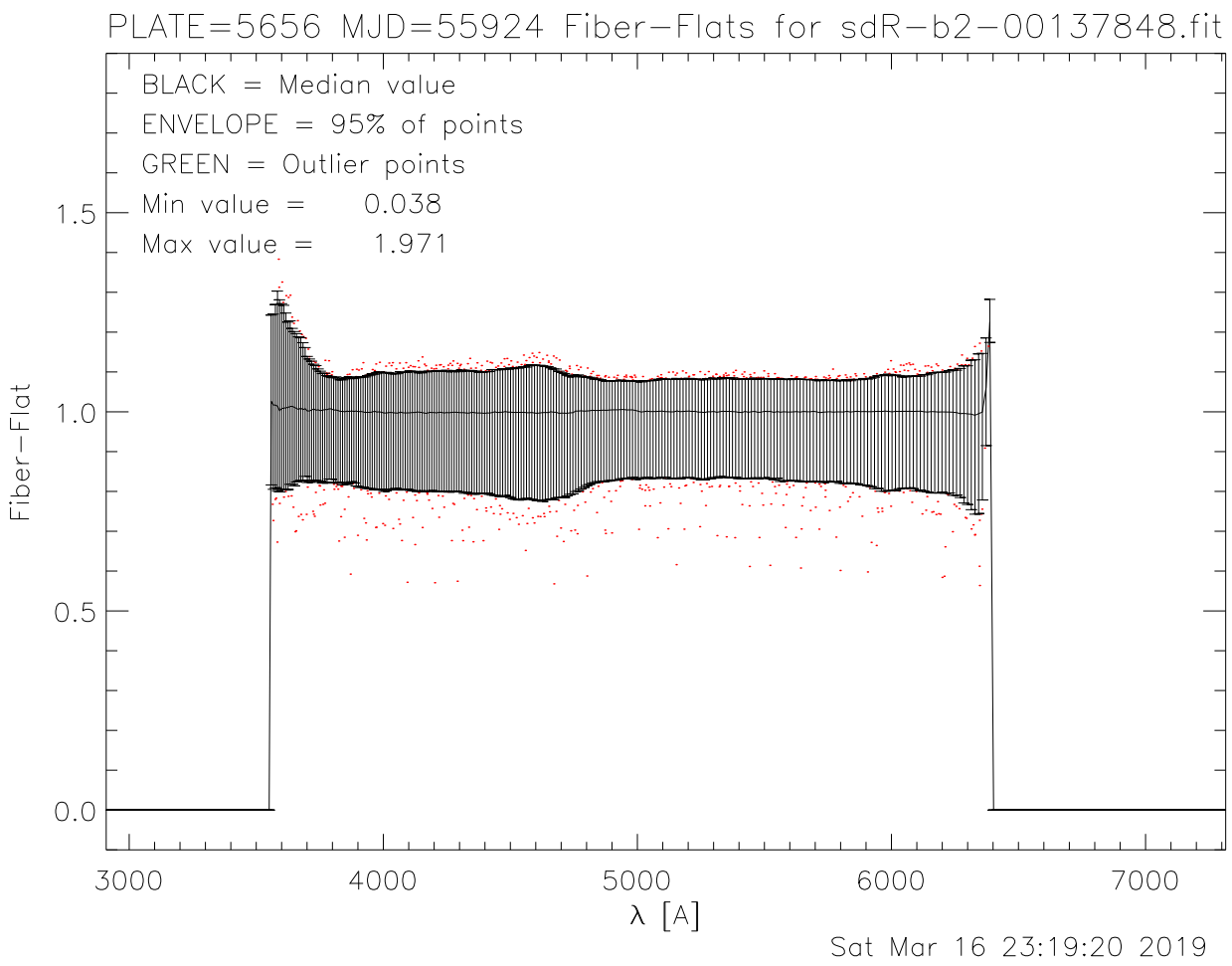

PLATE=5656 MJD=55924 sdR-b2-00137849.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

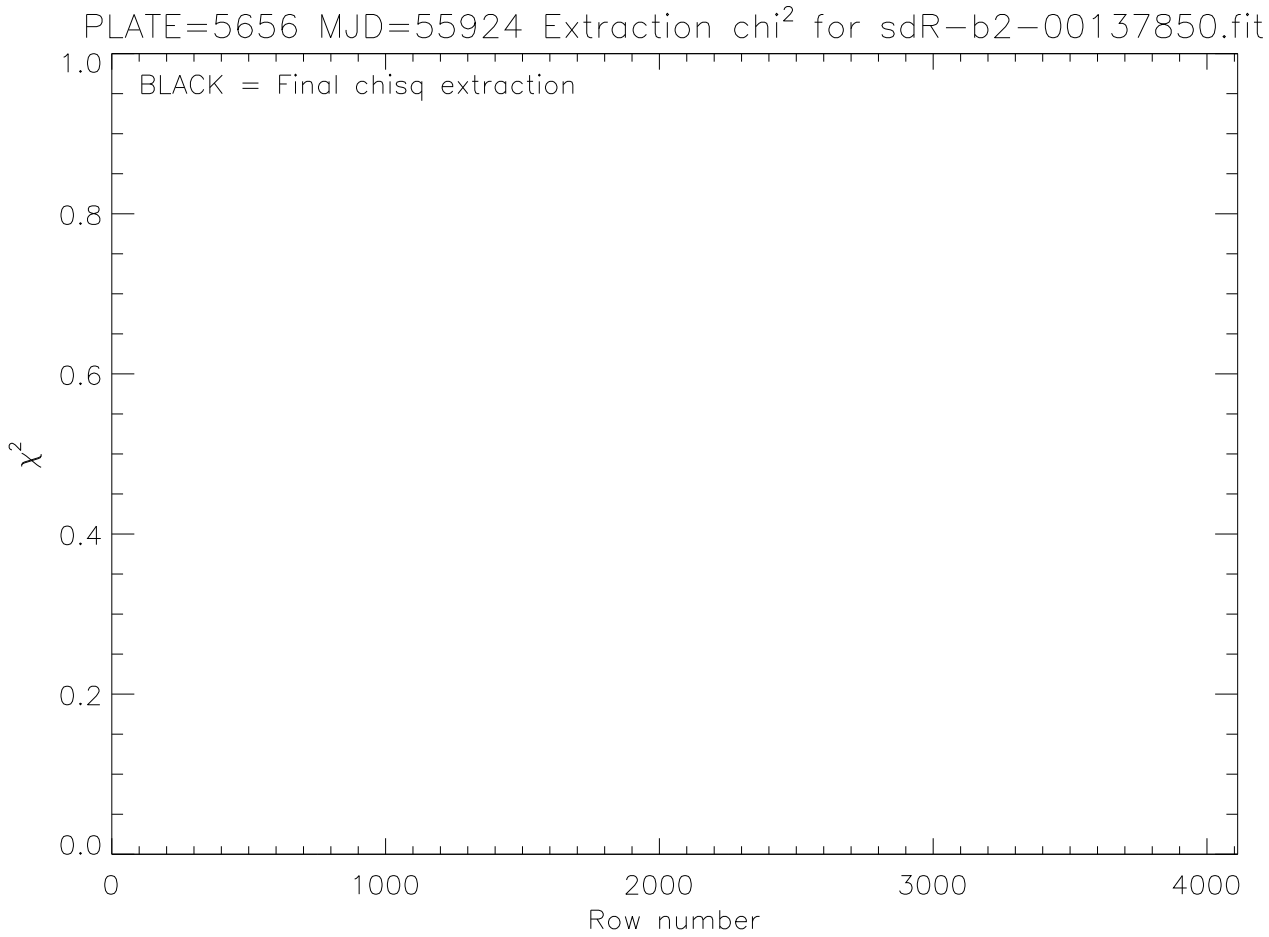
Number of sky fibers = 48

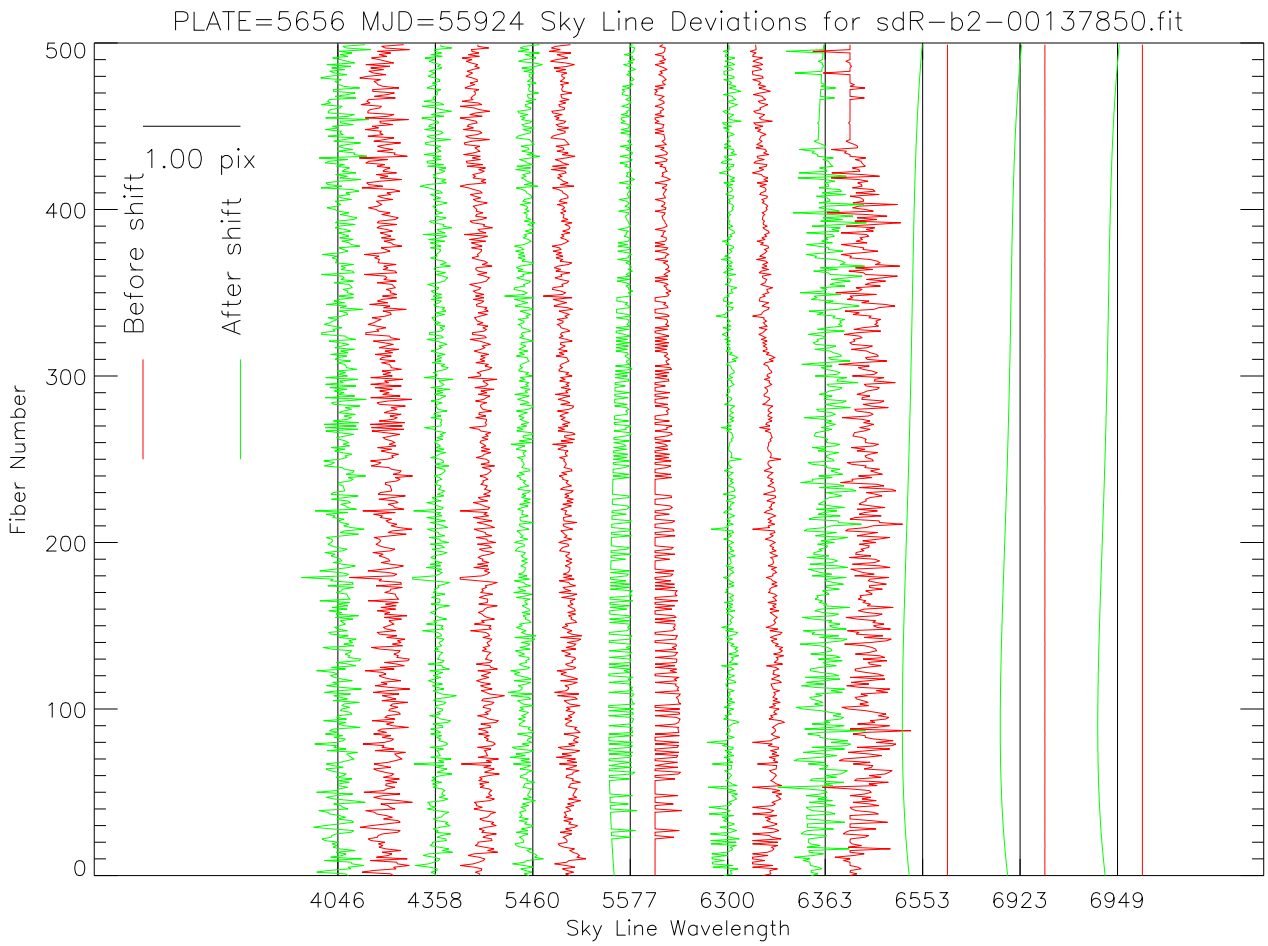


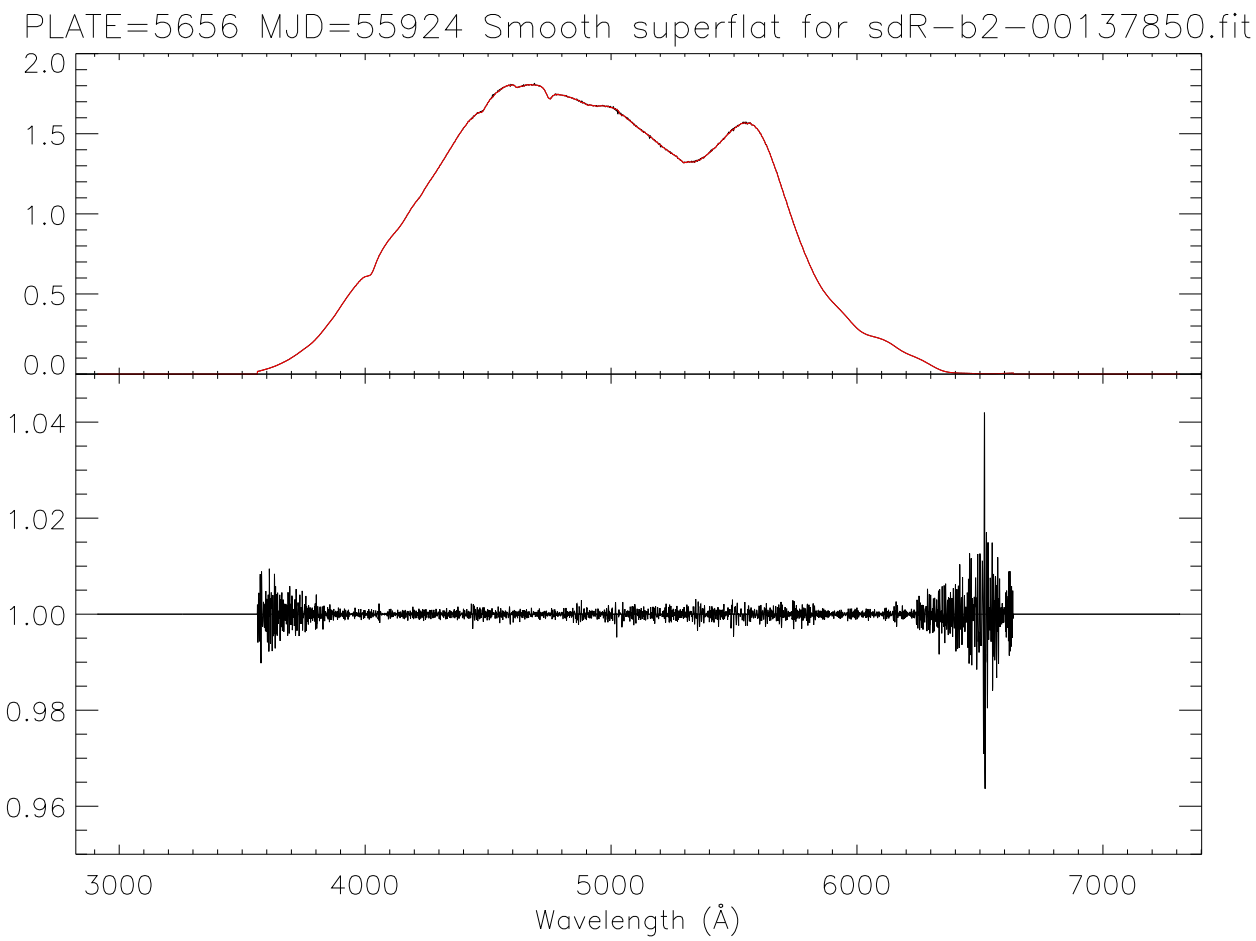

PLATE=5656 MJD=55924 sdR-b2-00137849.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.87 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

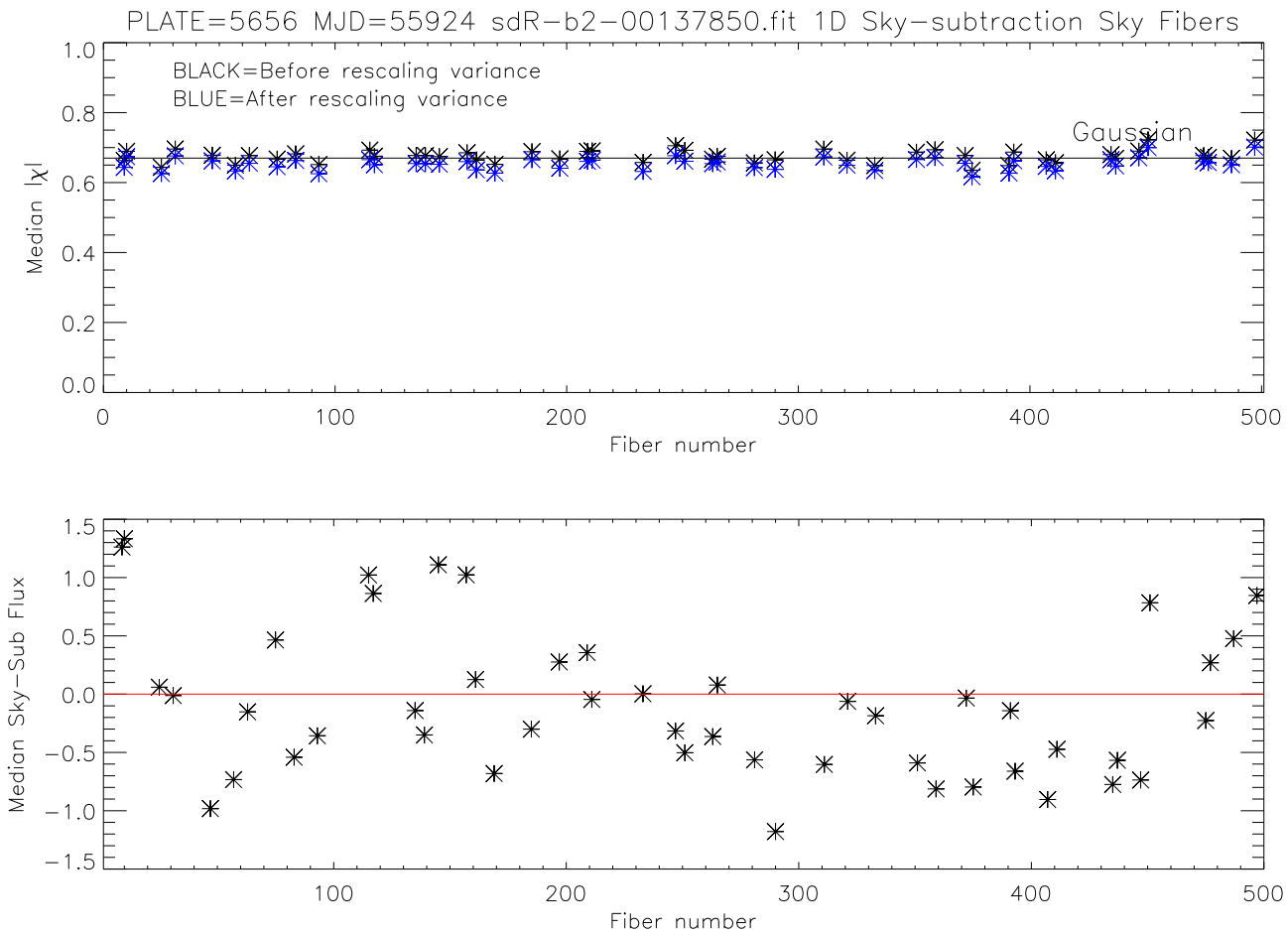

PLATE=5656 MJD=55924 sdR-b2-00137849.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 17.85 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

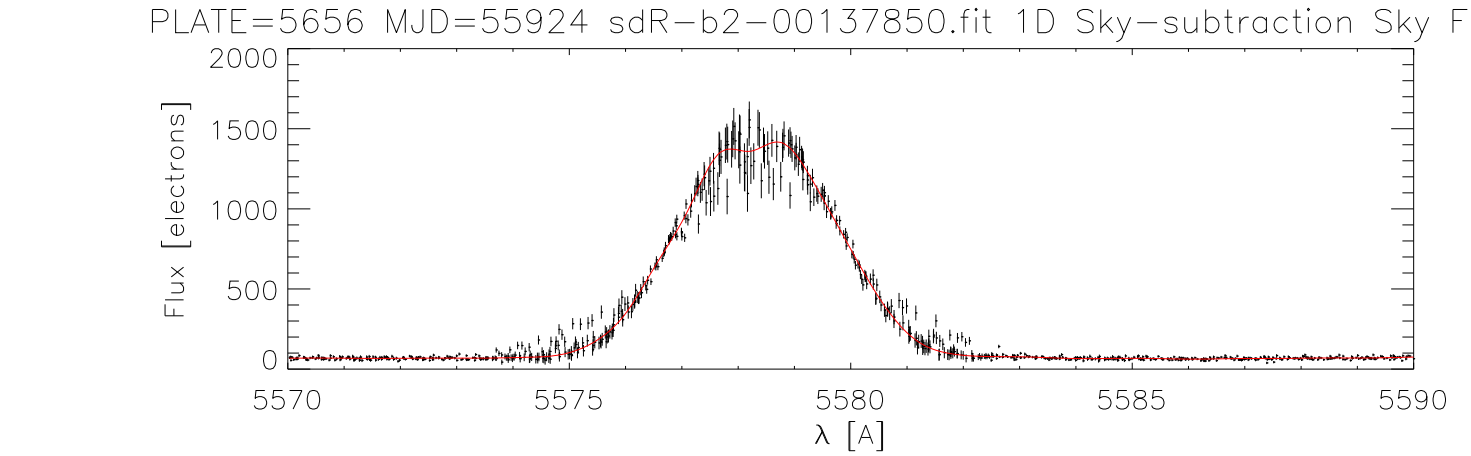

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b2-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.038
Max value = 1.971
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 23:19:20 2019

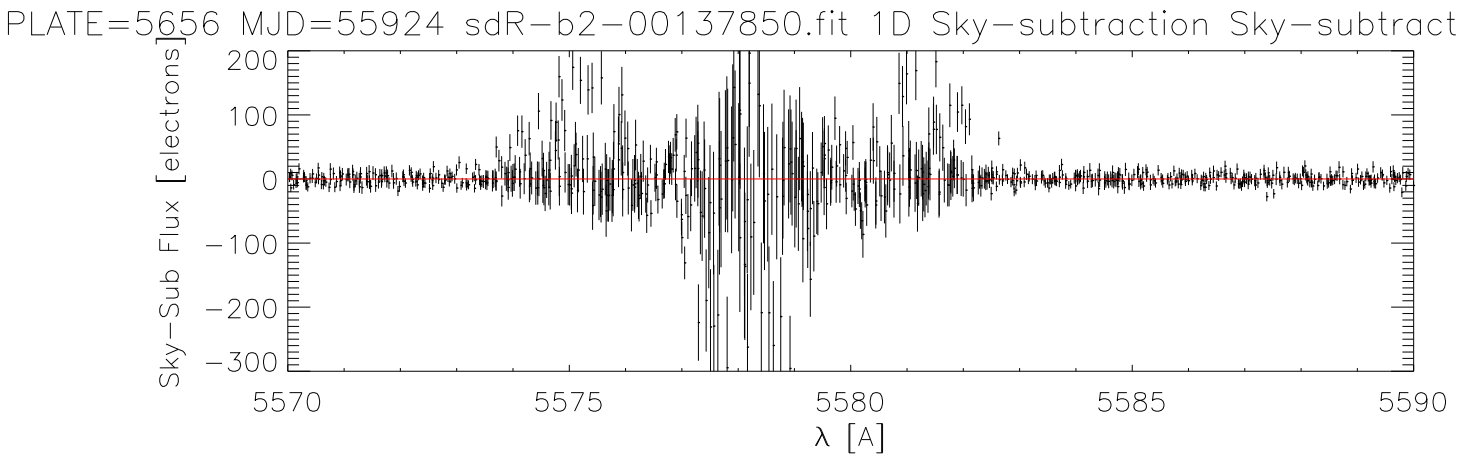

PLATE=5656 MJD=55924 Extraction chi^2 for sdR-b2-00137850.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b2-00137850.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

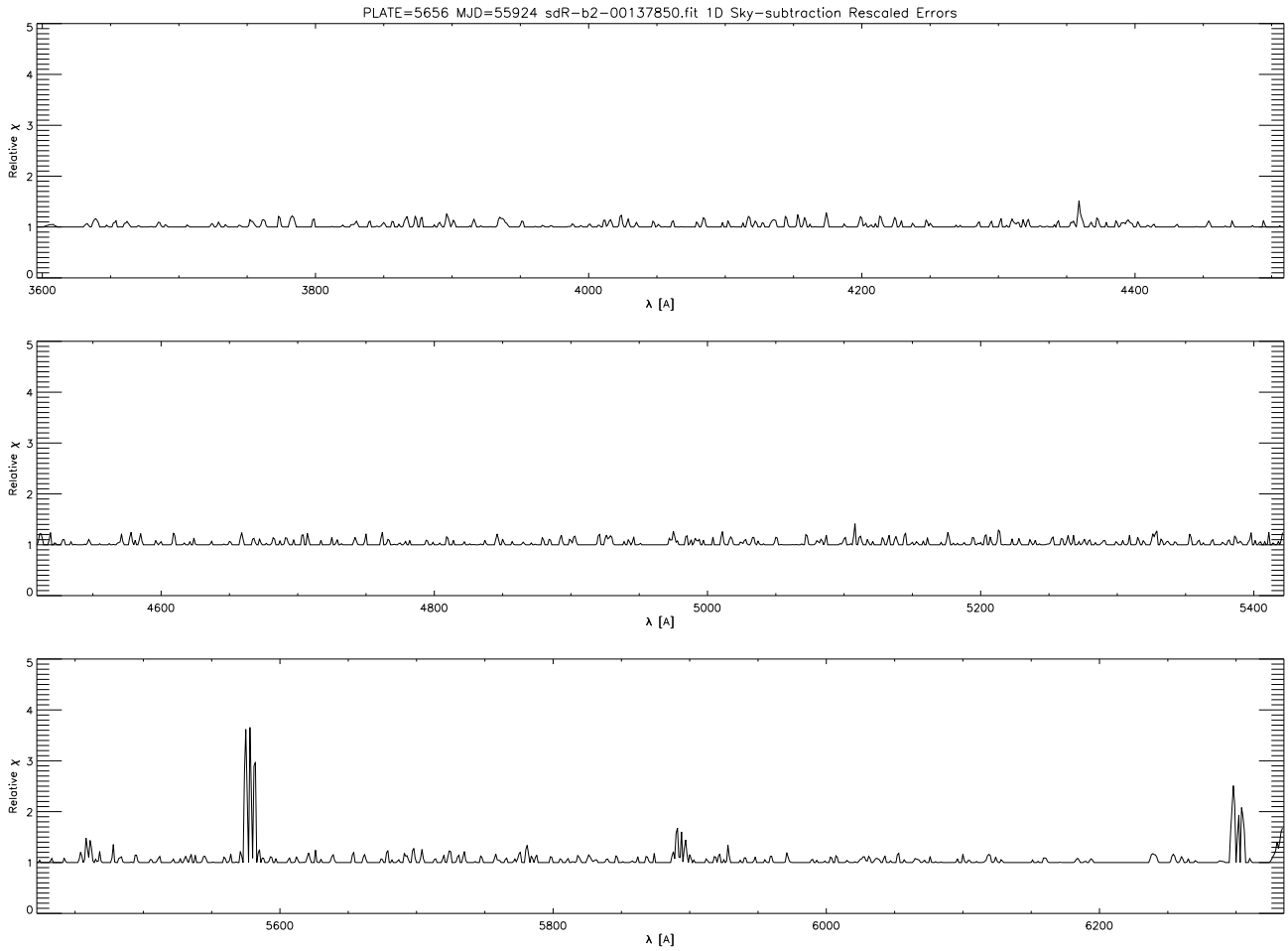

PLATE=5656 MJD=55924 Smooth superflat for sdR-b2-00137850.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

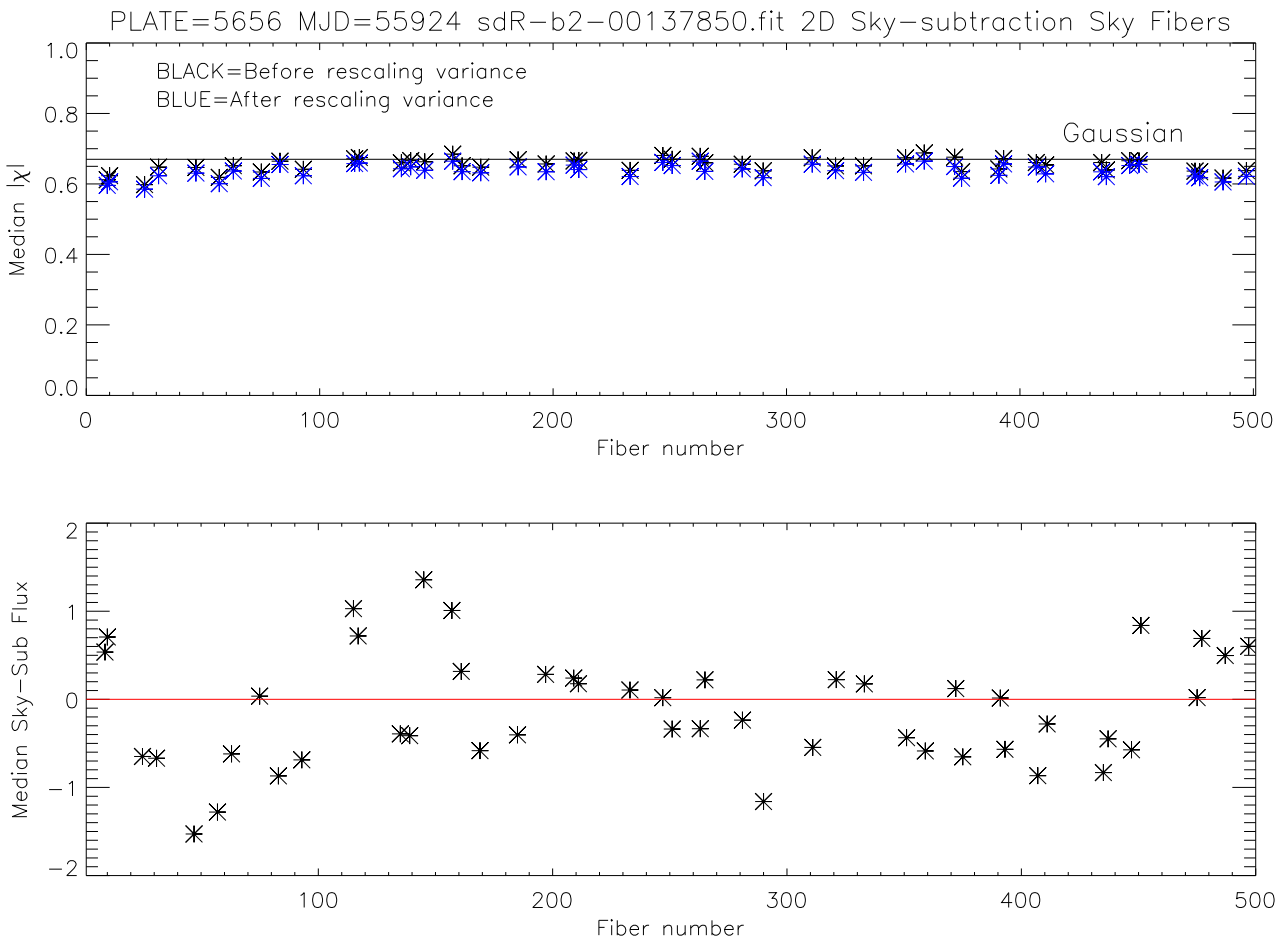

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

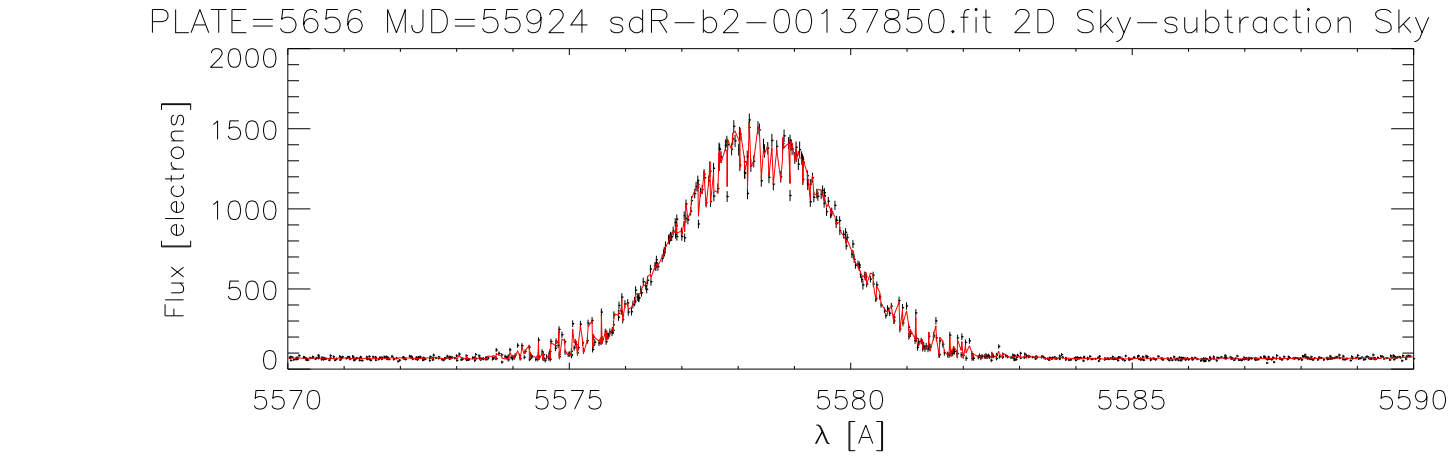

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

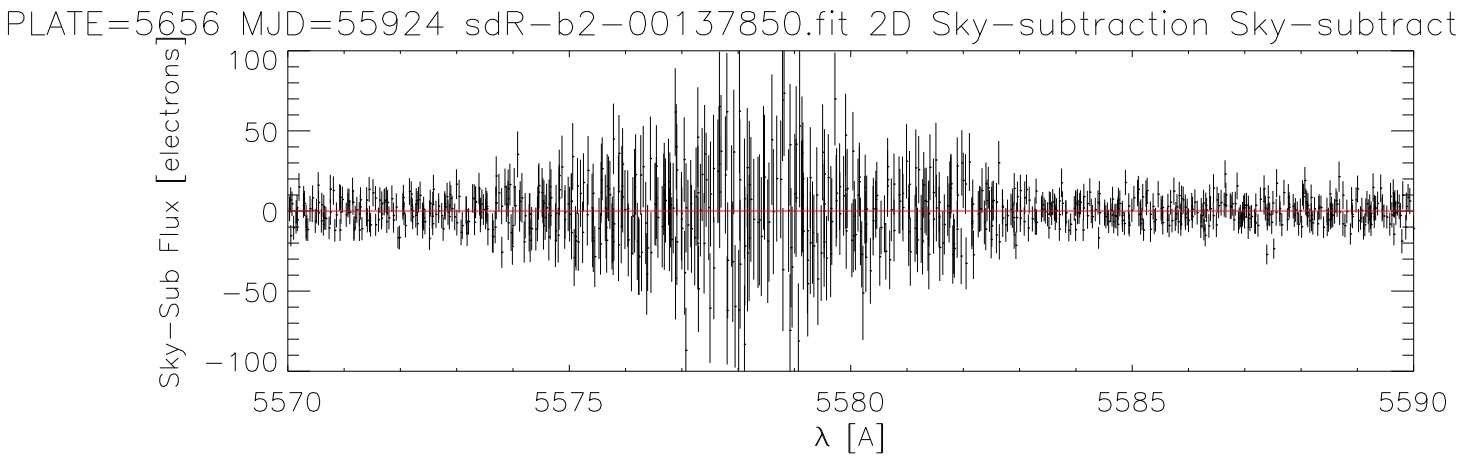

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

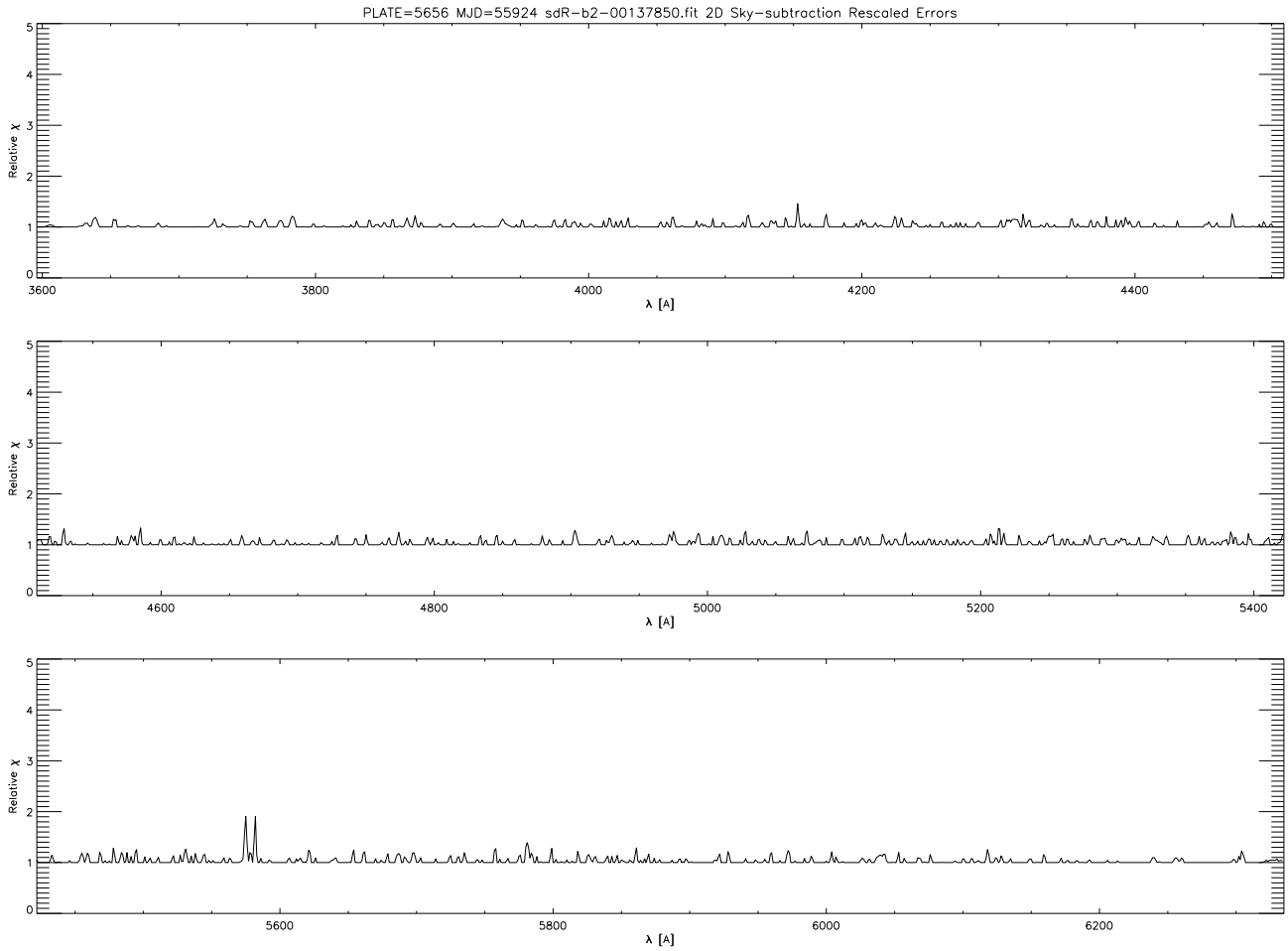


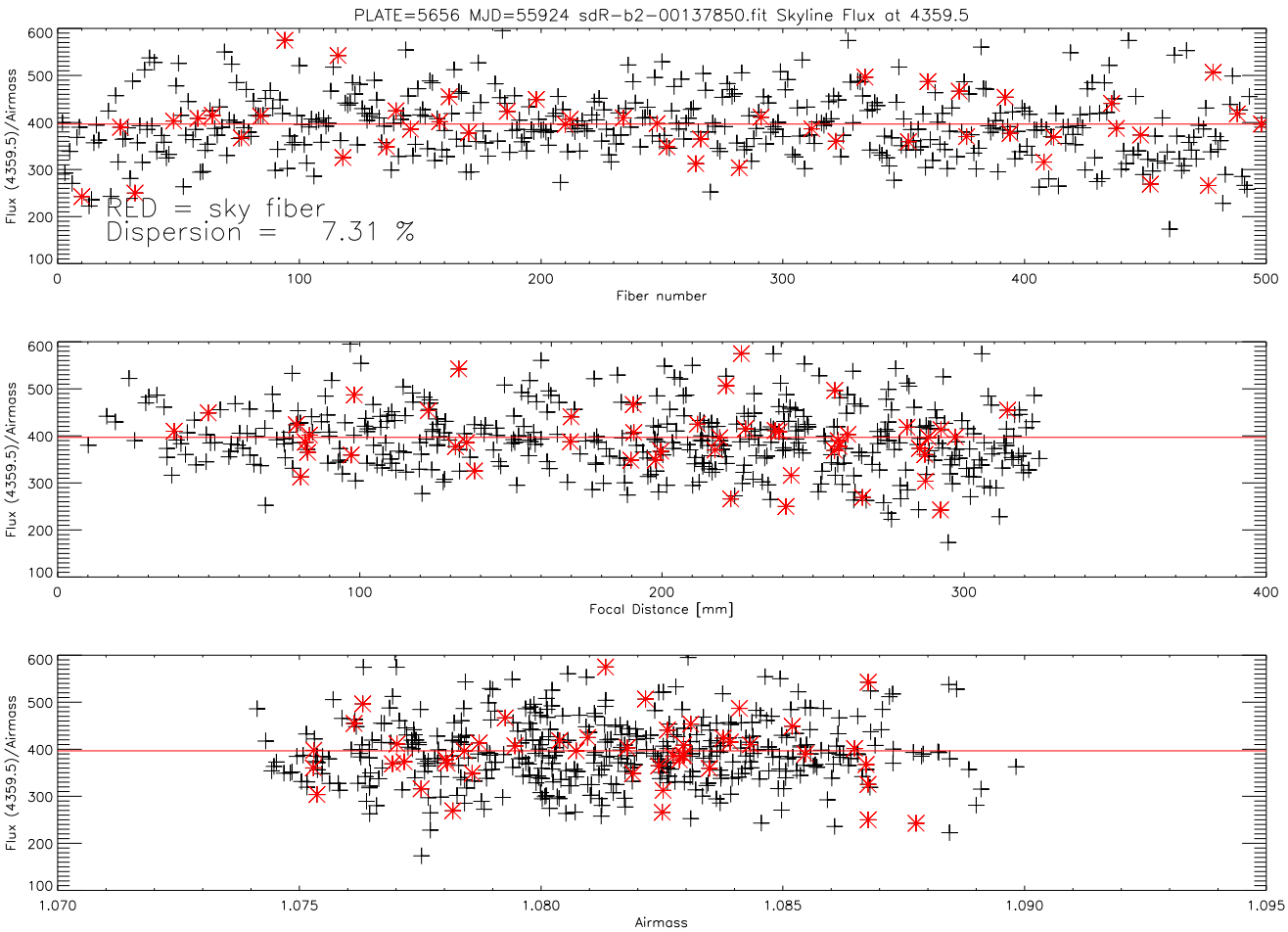

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

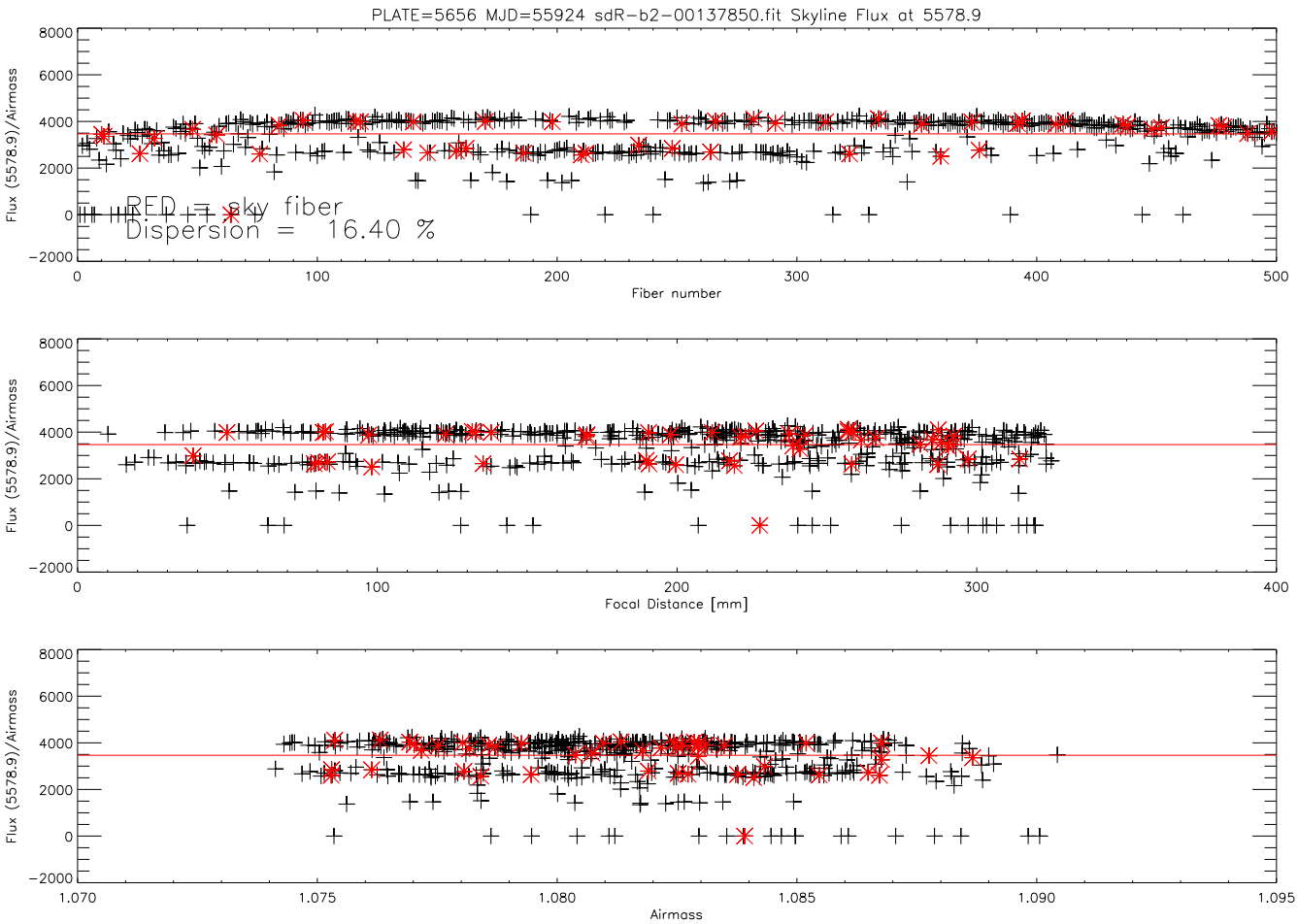

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

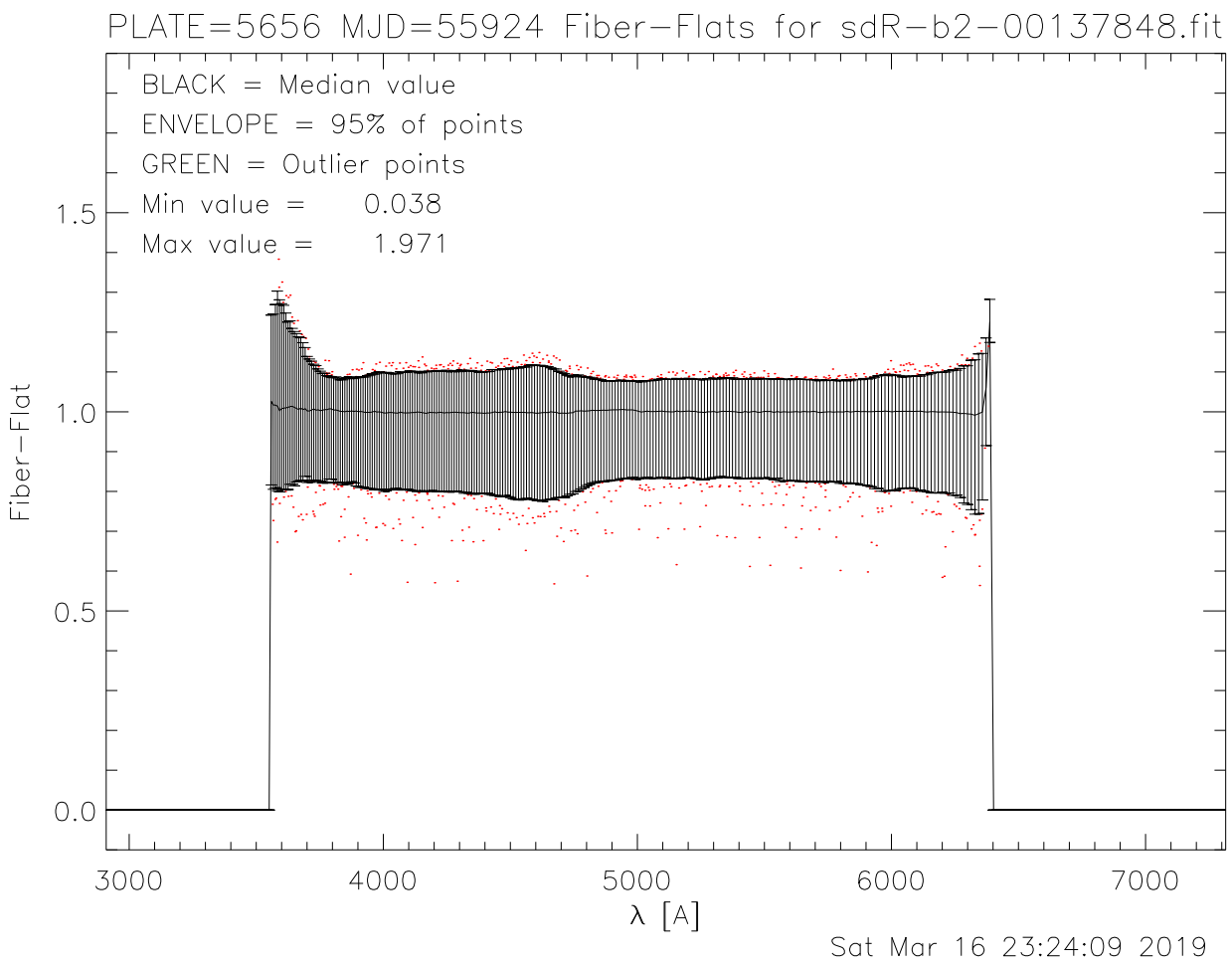

PLATE=5656 MJD=55924 sdR-b2-00137850.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

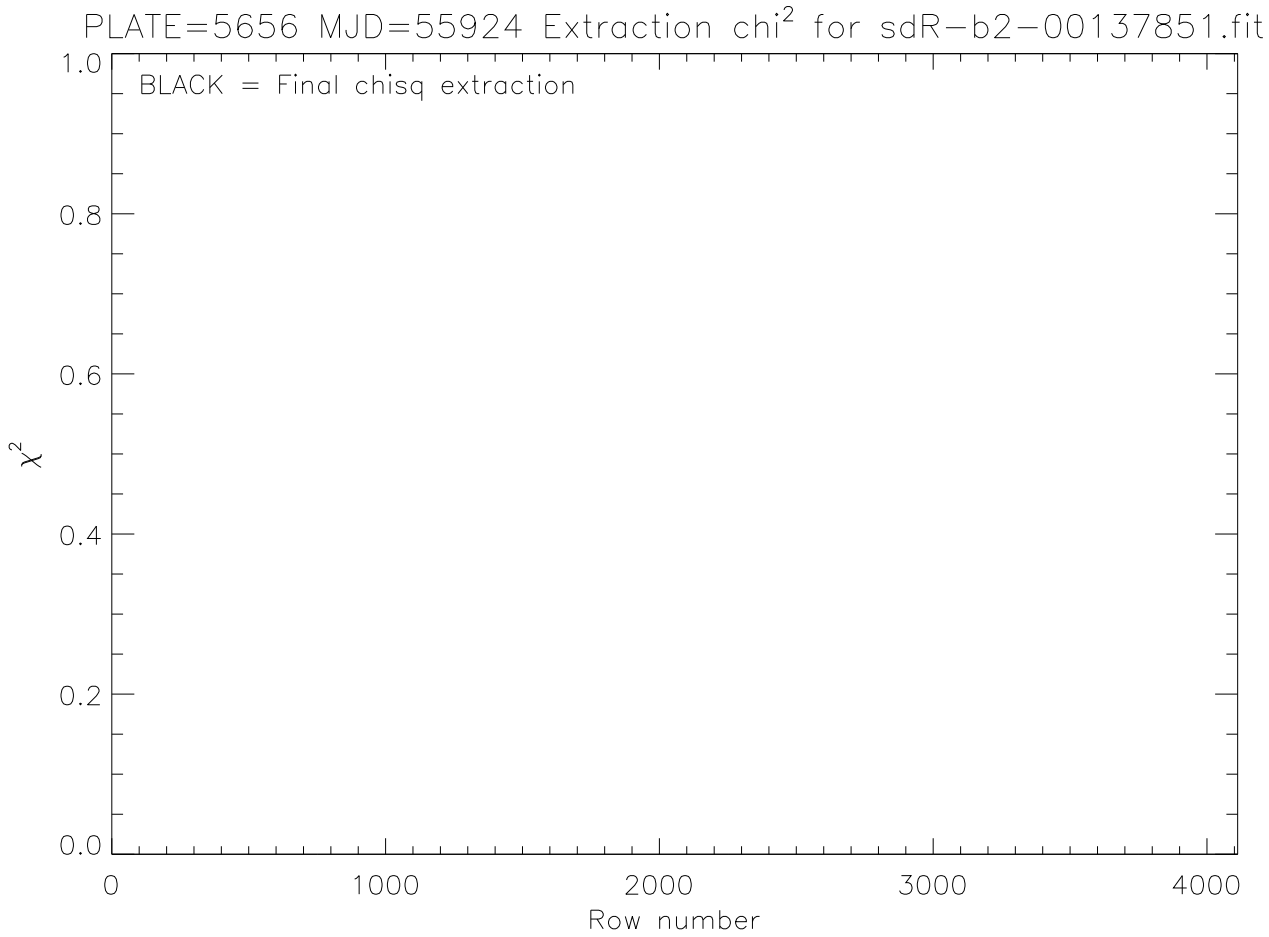
Number of sky fibers = 48

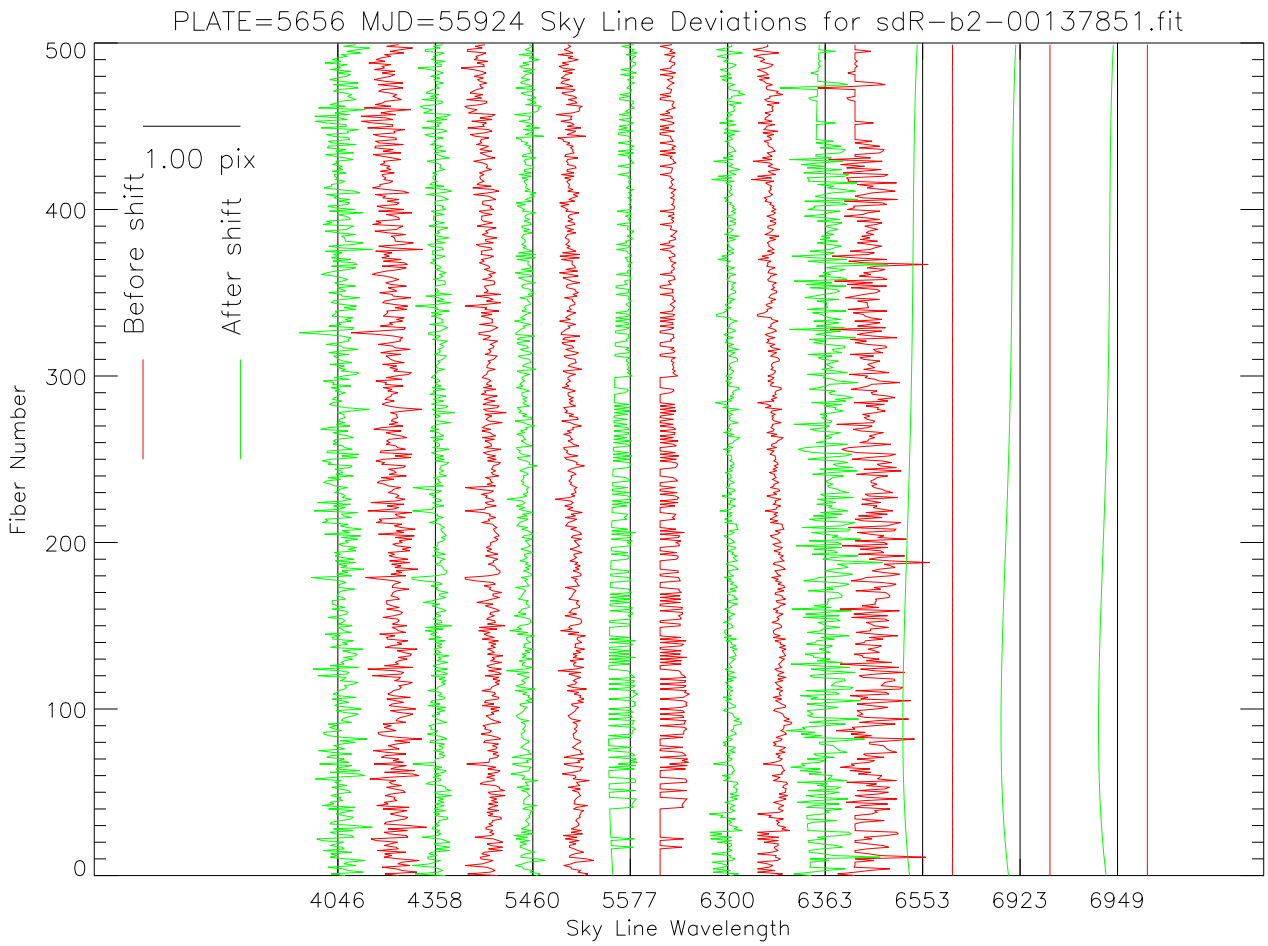


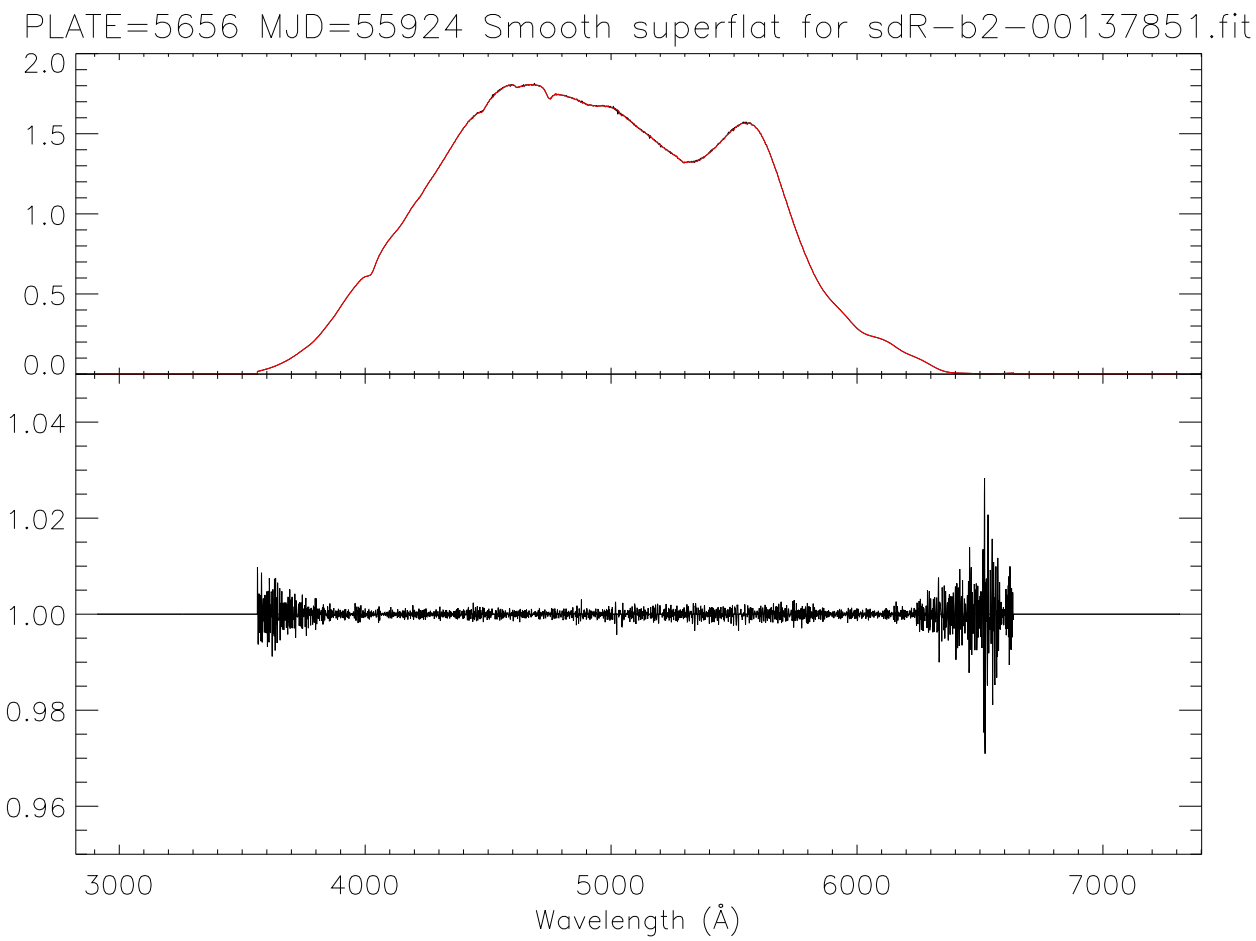

PLATE=5656 MJD=55924 sdR-b2-00137850.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 7.31 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

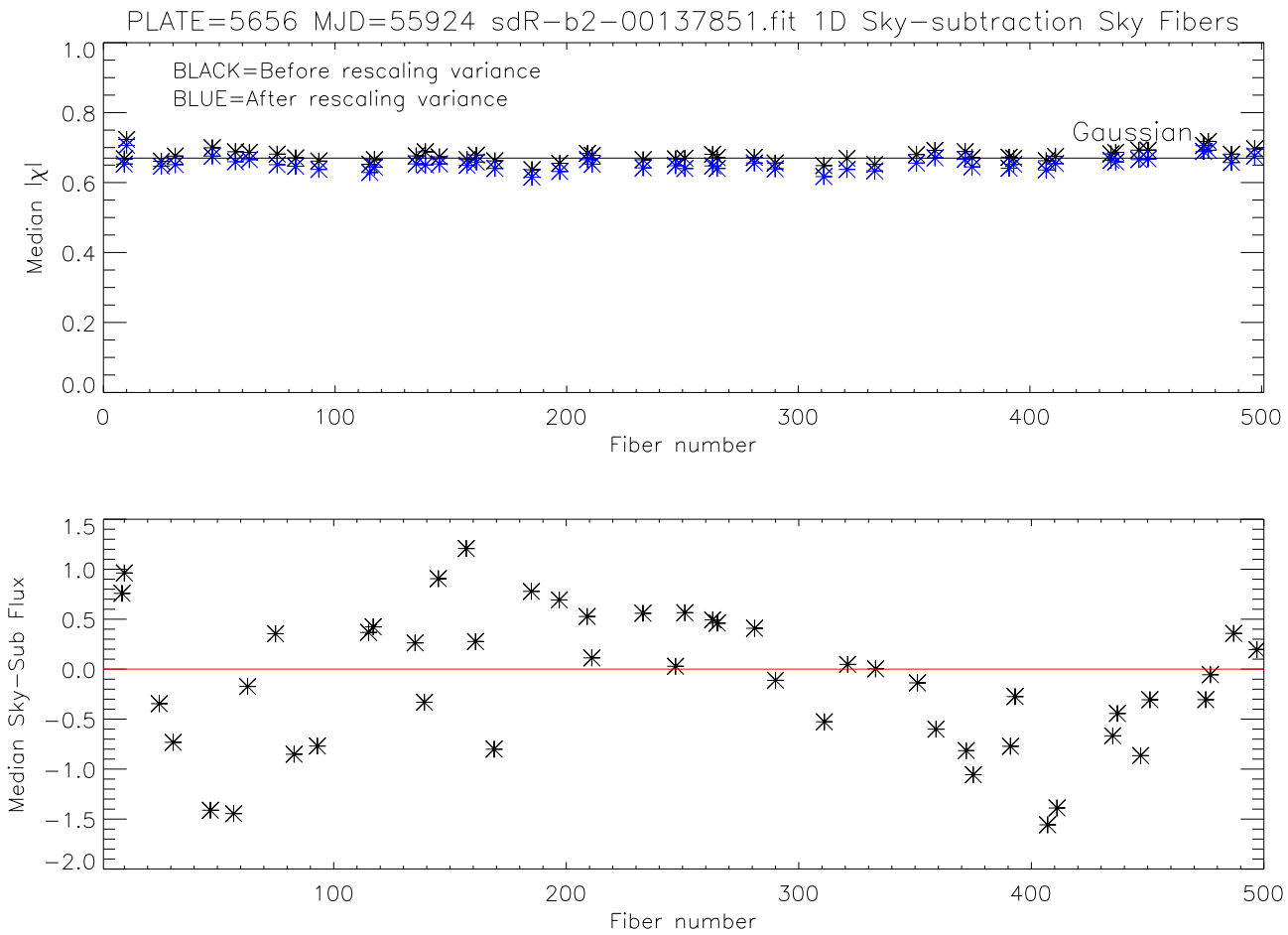

PLATE=5656 MJD=55924 sdR-b2-00137850.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 16.40 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

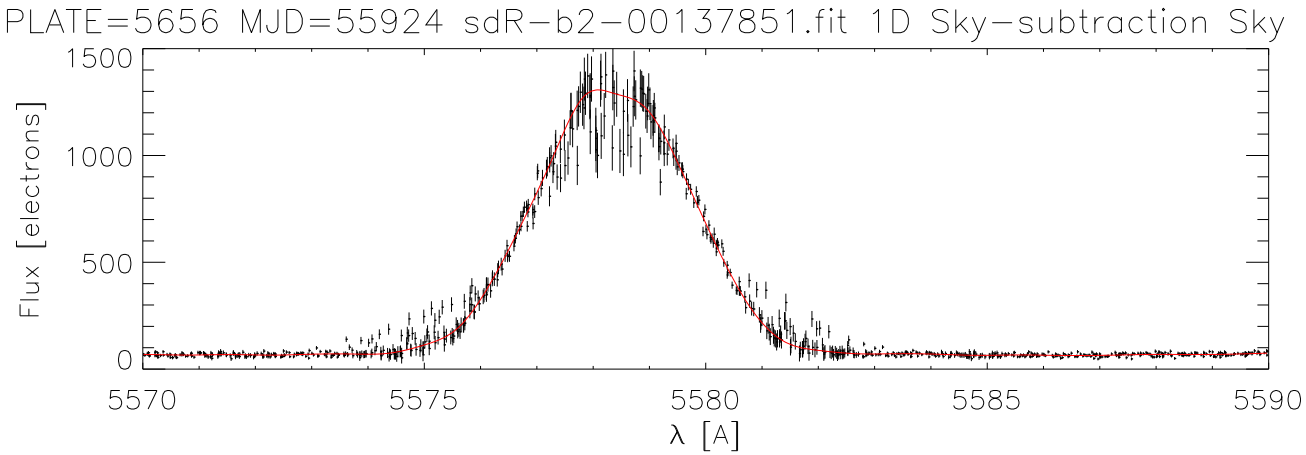

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b2-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.038
Max value = 1.971
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 23:24:09 2019

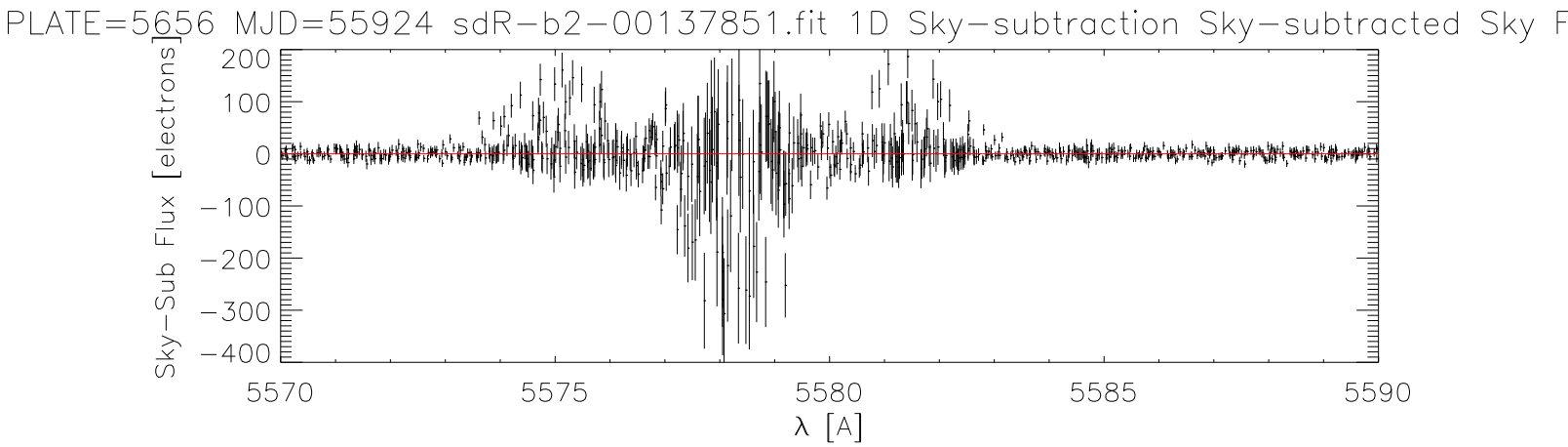

PLATE=5656 MJD=55924 Extraction chi^2 for sdR-b2-00137851.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b2-00137851.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

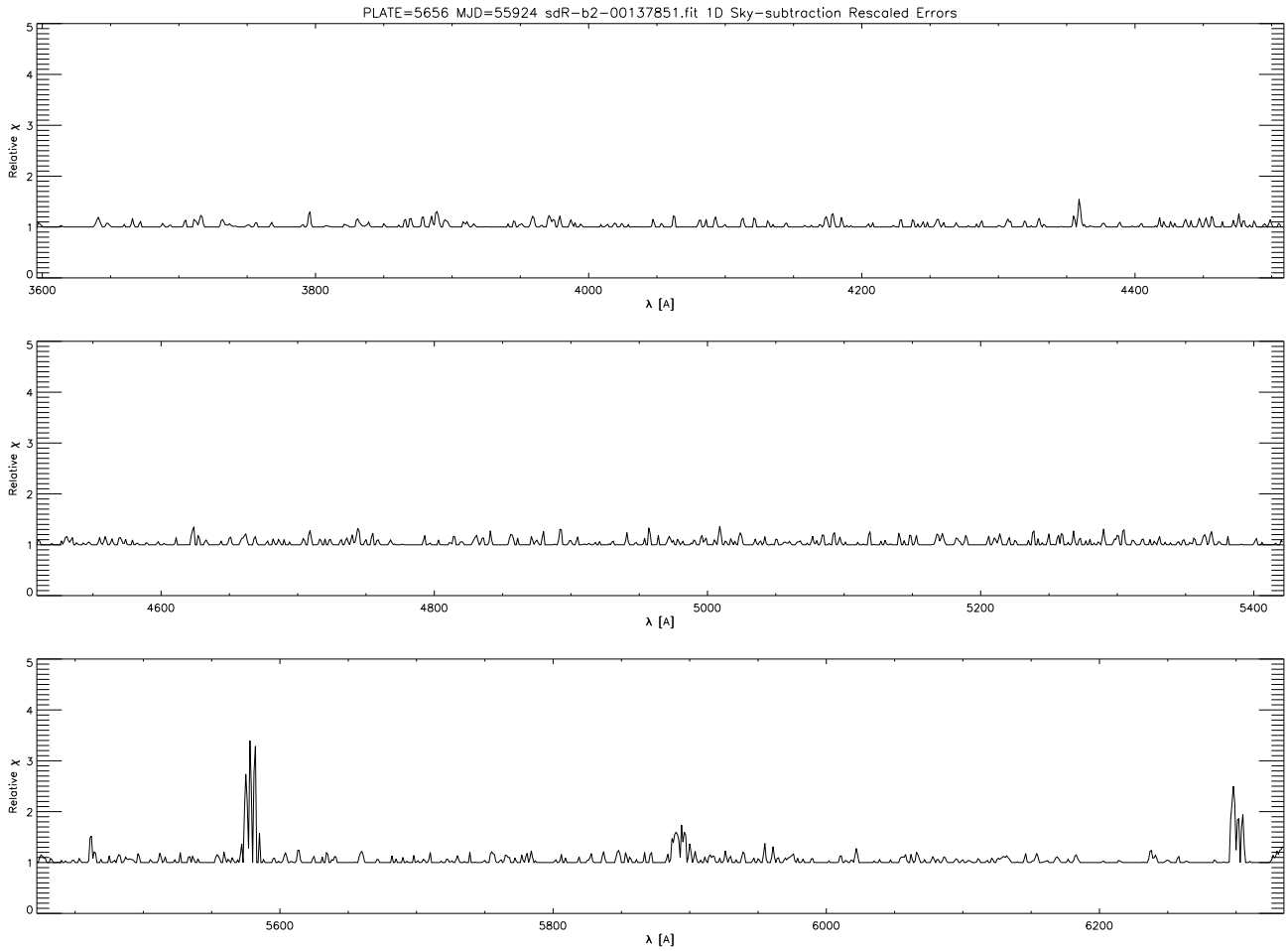

PLATE=5656 MJD=55924 Smooth superflat for sdR-b2-00137851.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

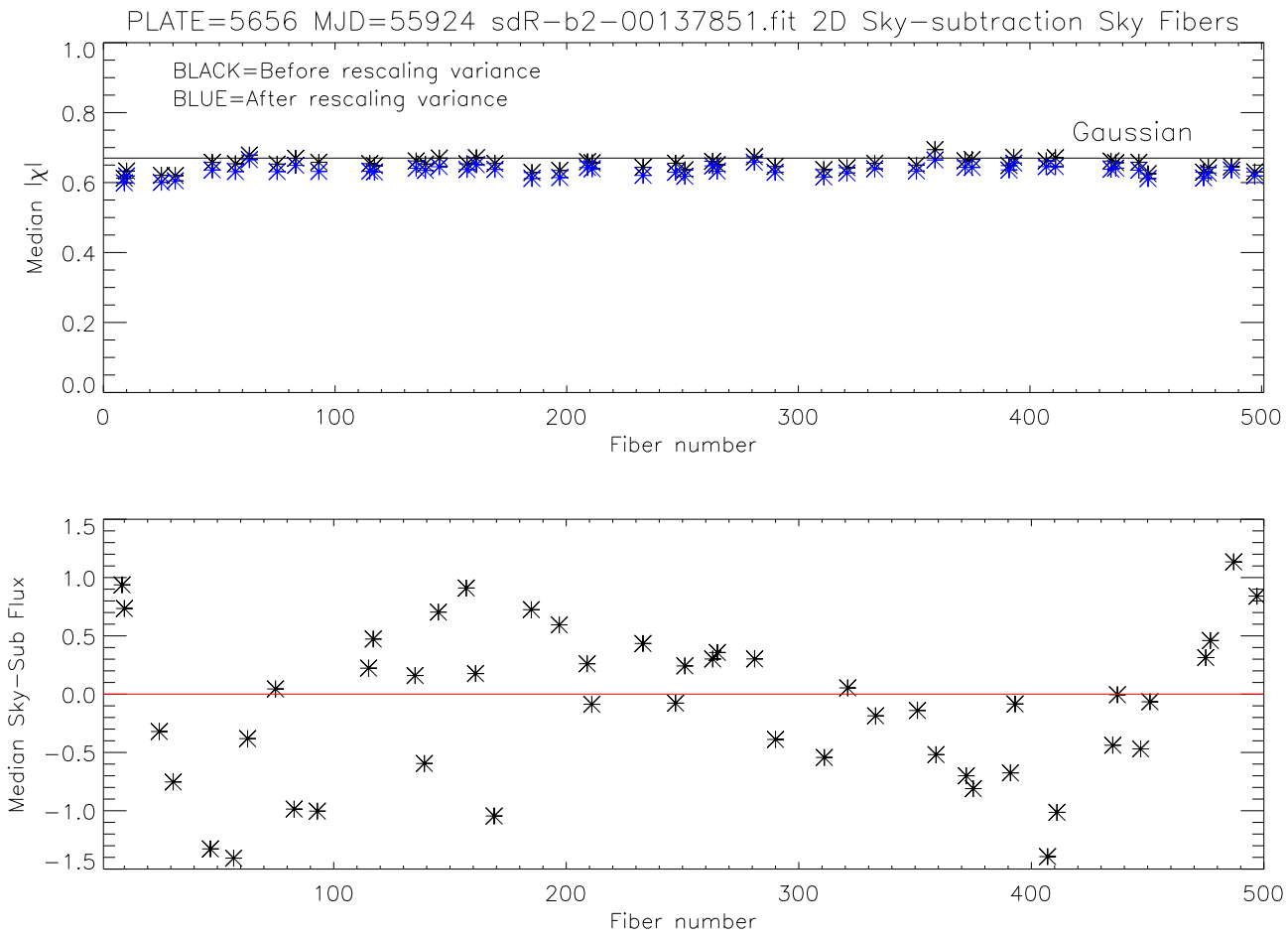

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

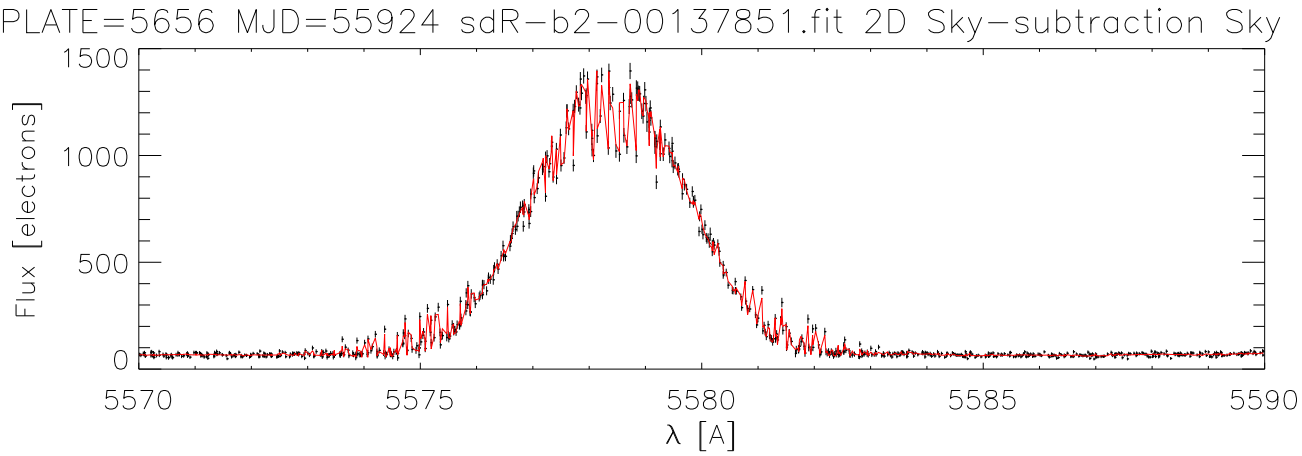

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

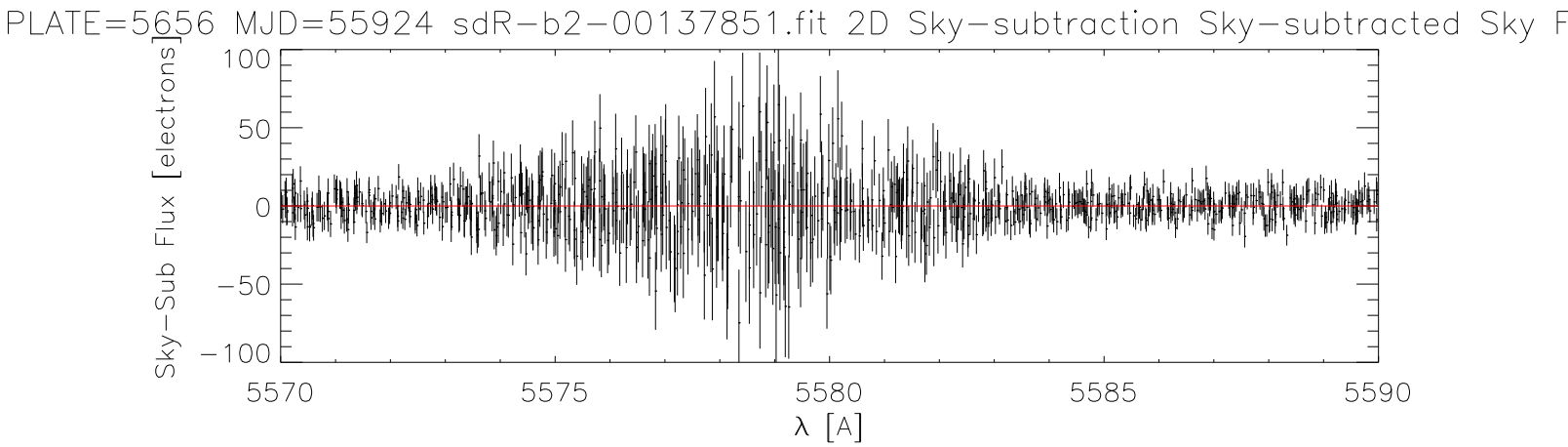

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 48

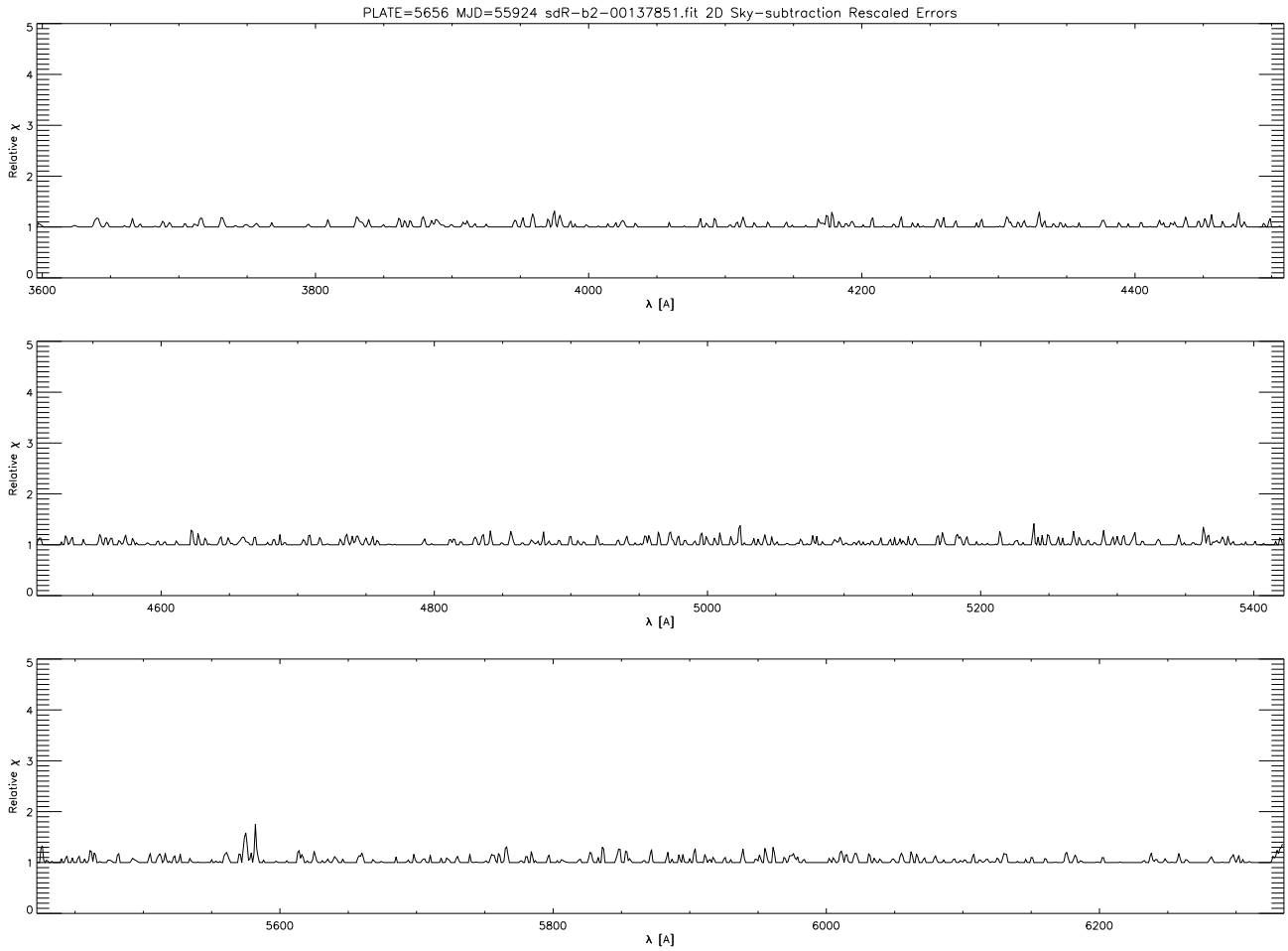


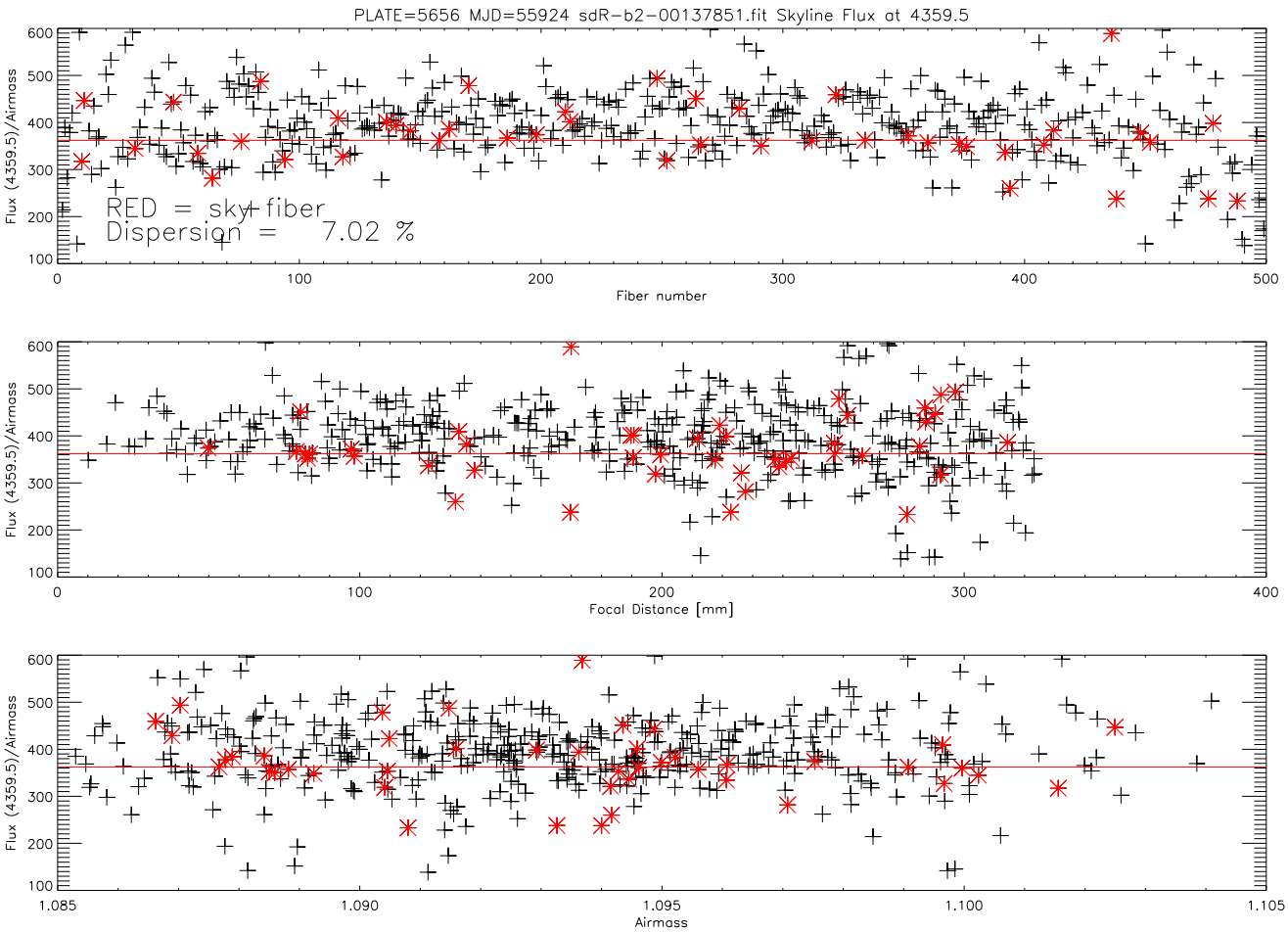

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

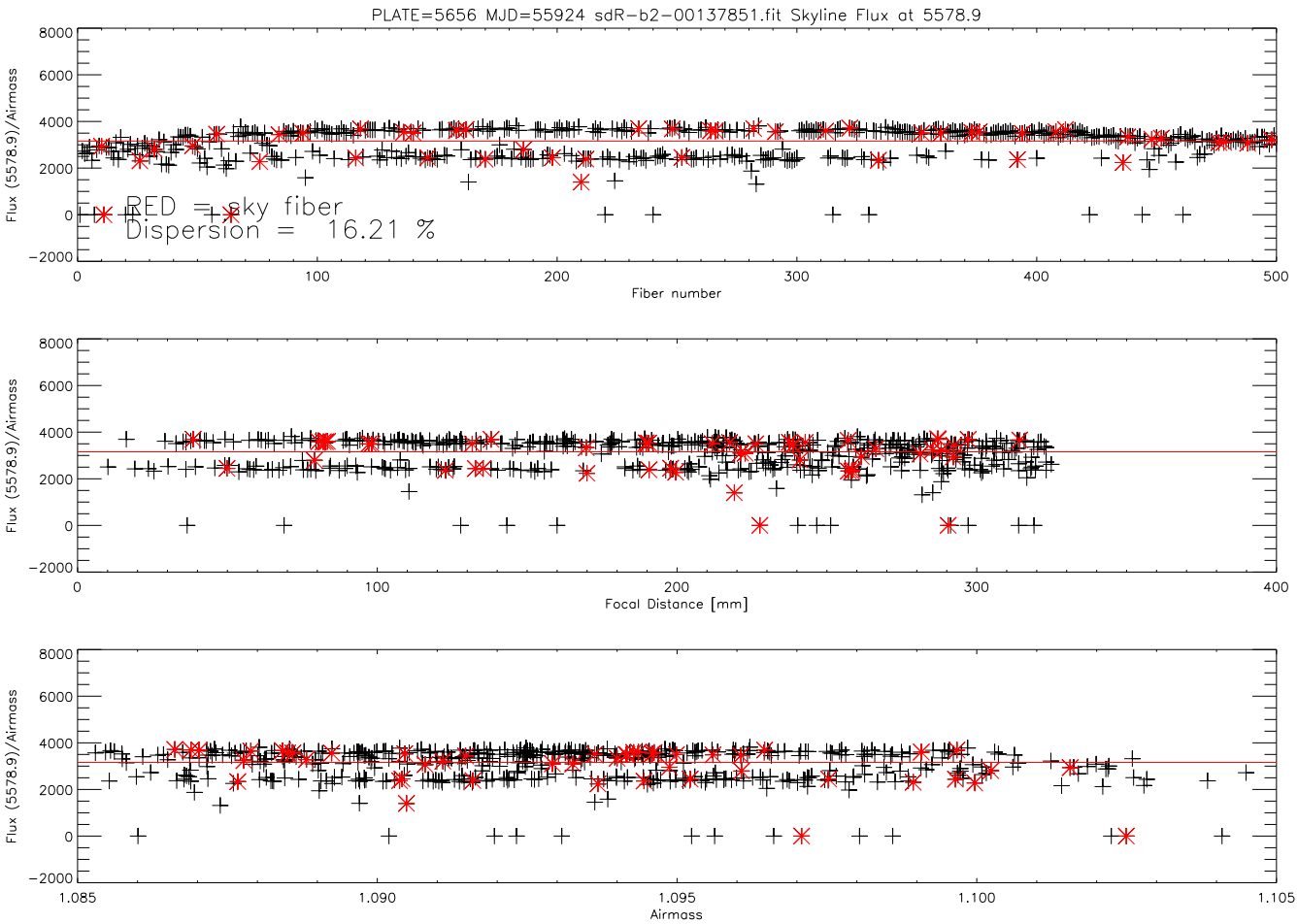

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

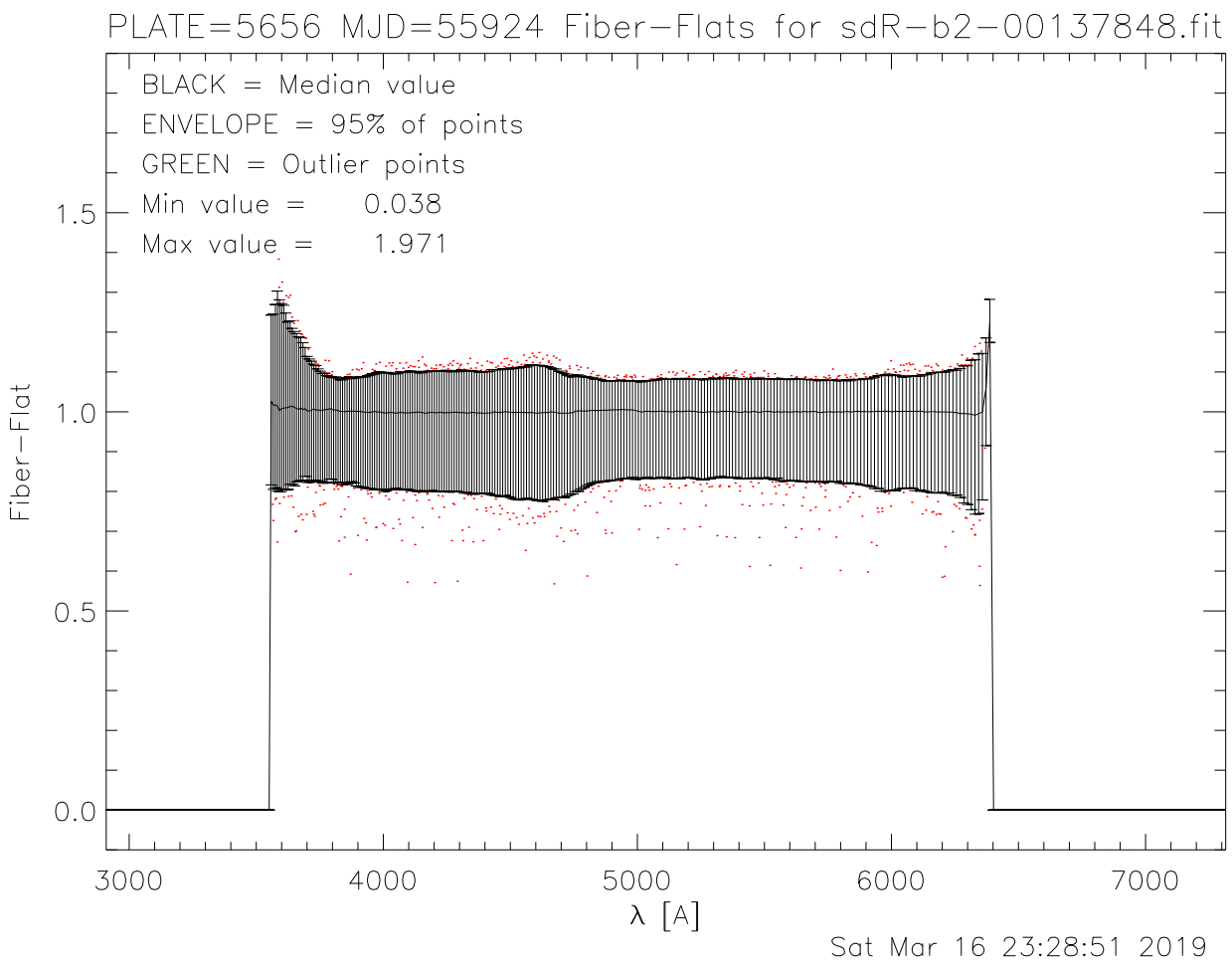

PLATE=5656 MJD=55924 sdR-b2-00137851.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

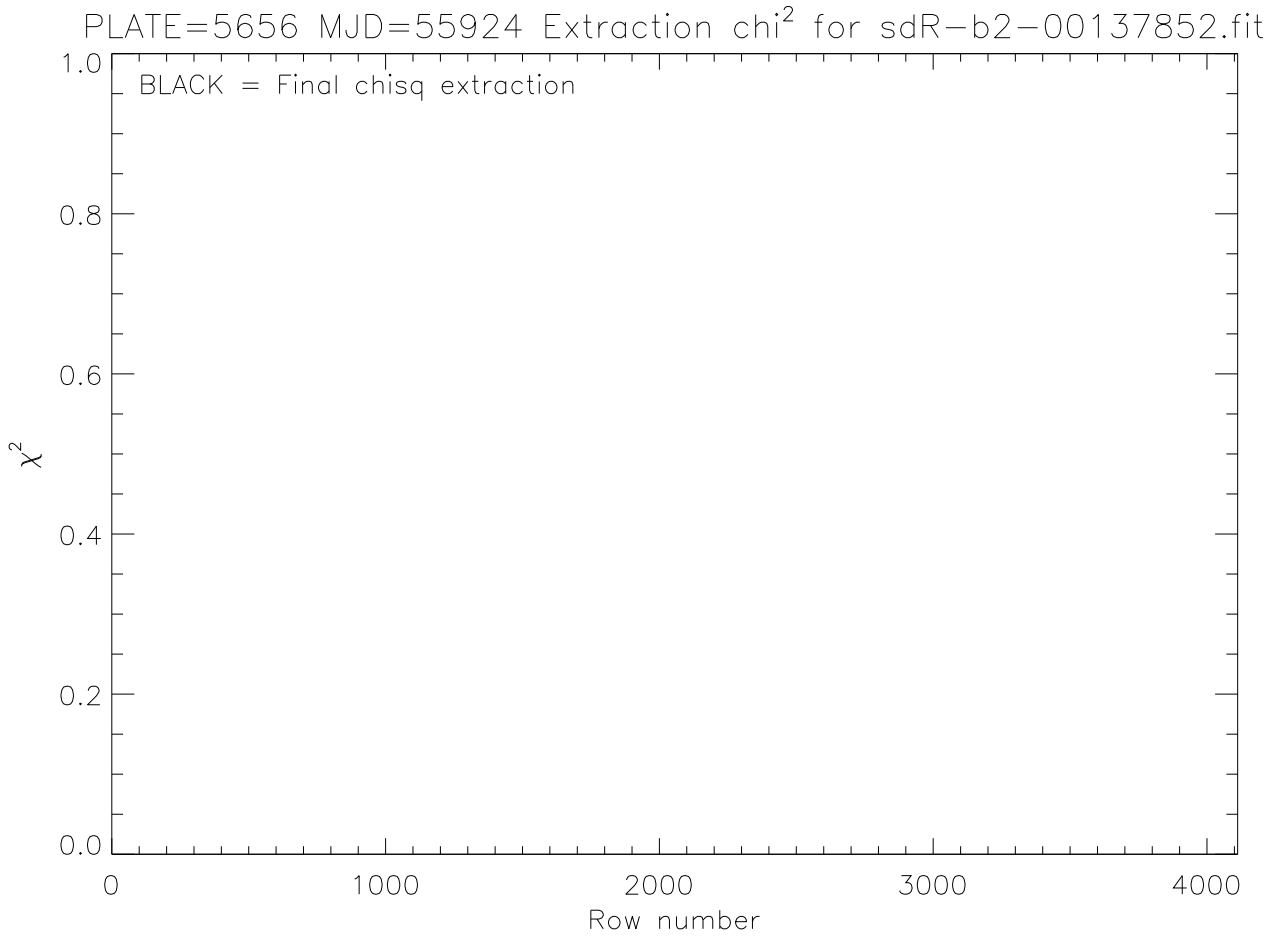
Number of sky fibers = 48

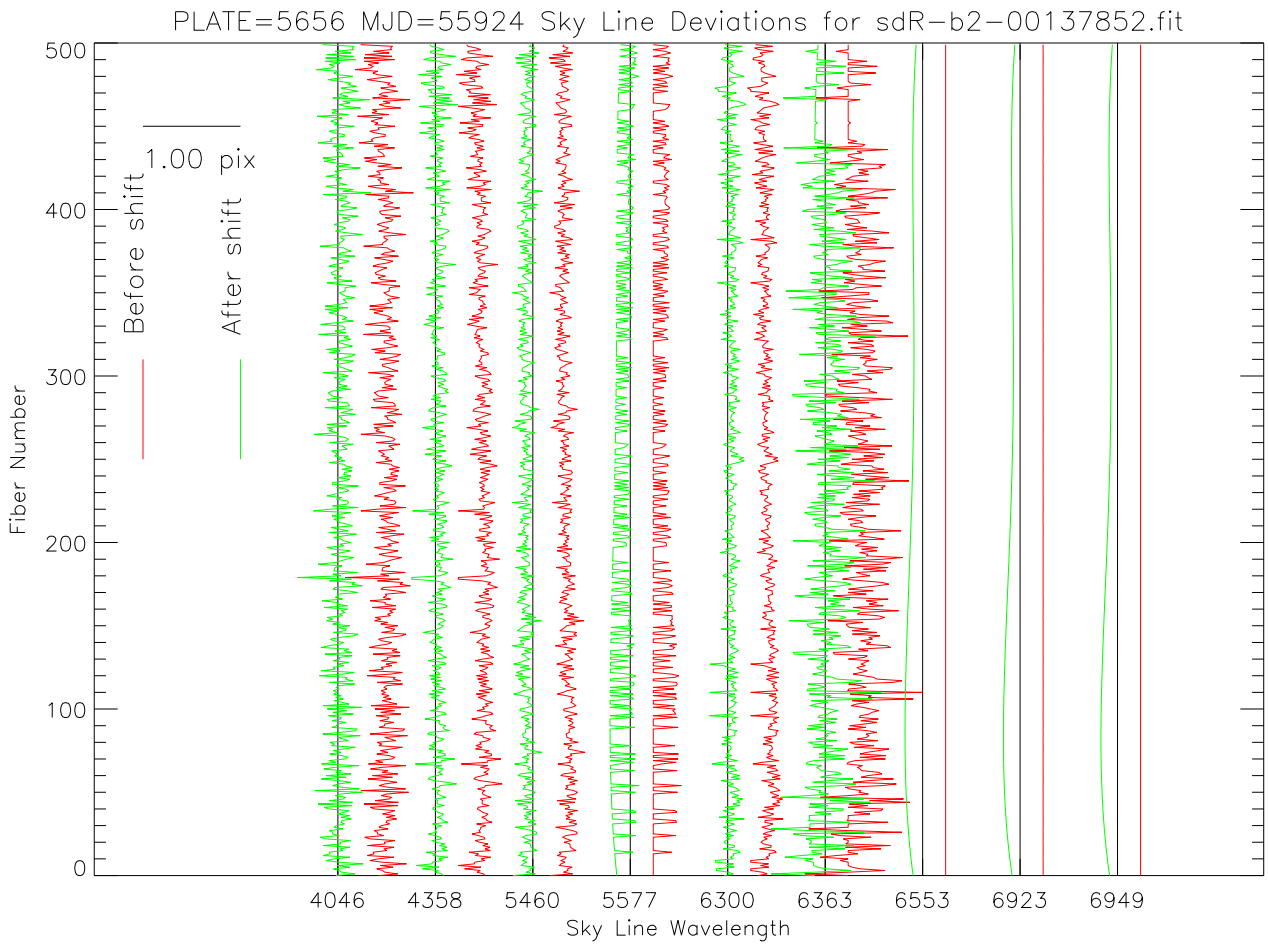


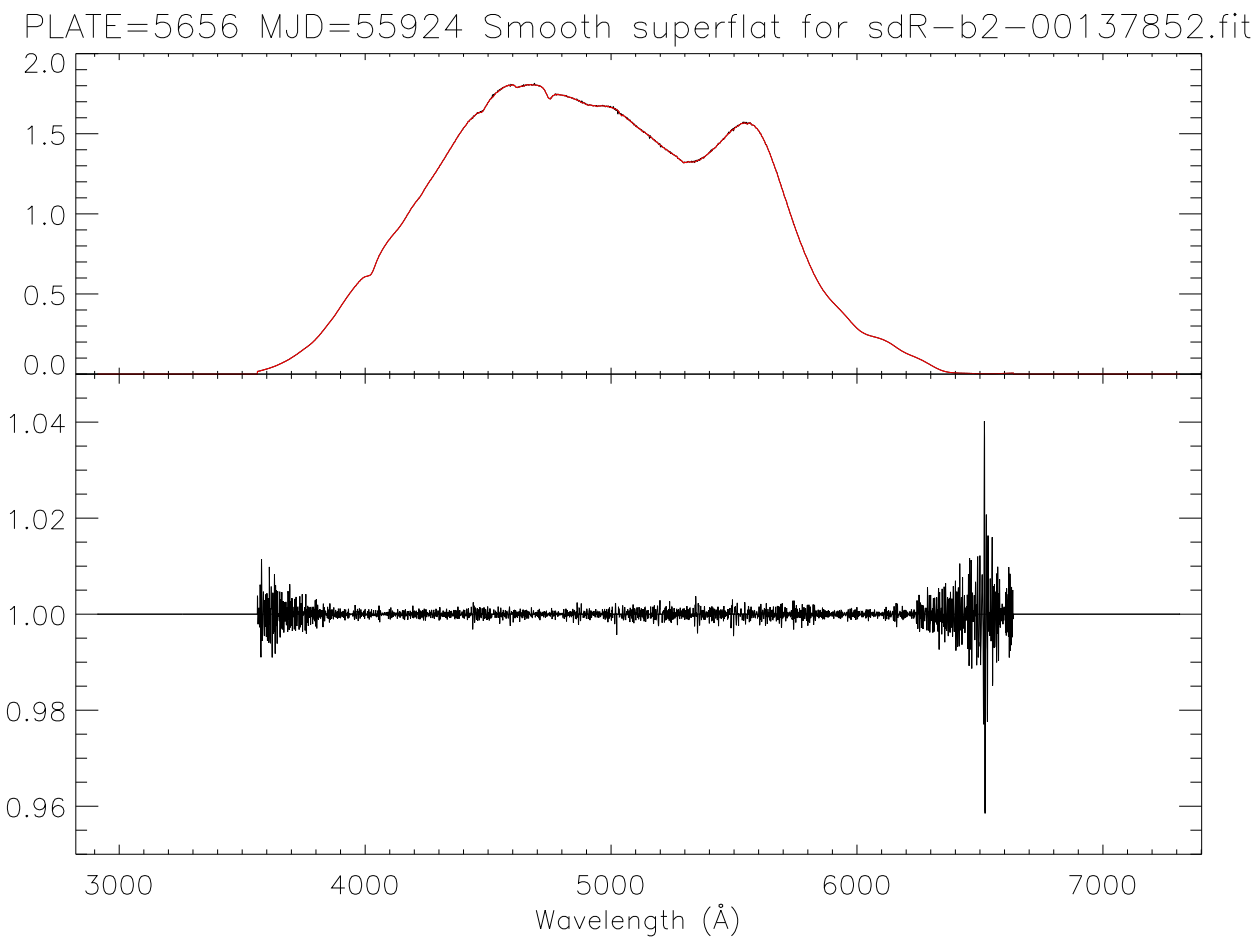

PLATE=5656 MJD=55924 sdR-b2-00137851.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.02 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

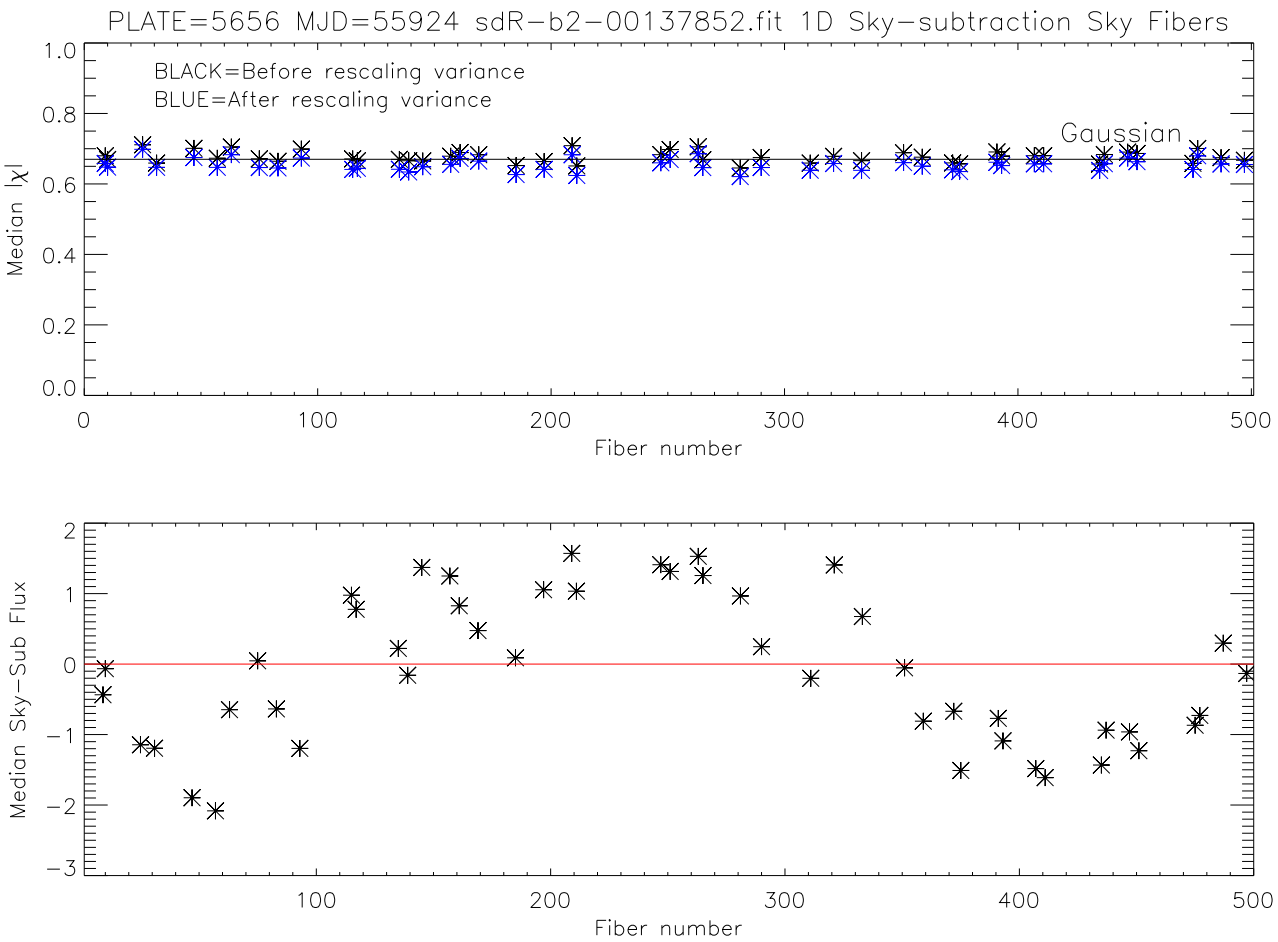

PLATE=5656 MJD=55924 sdR-b2-00137851.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 16.21 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

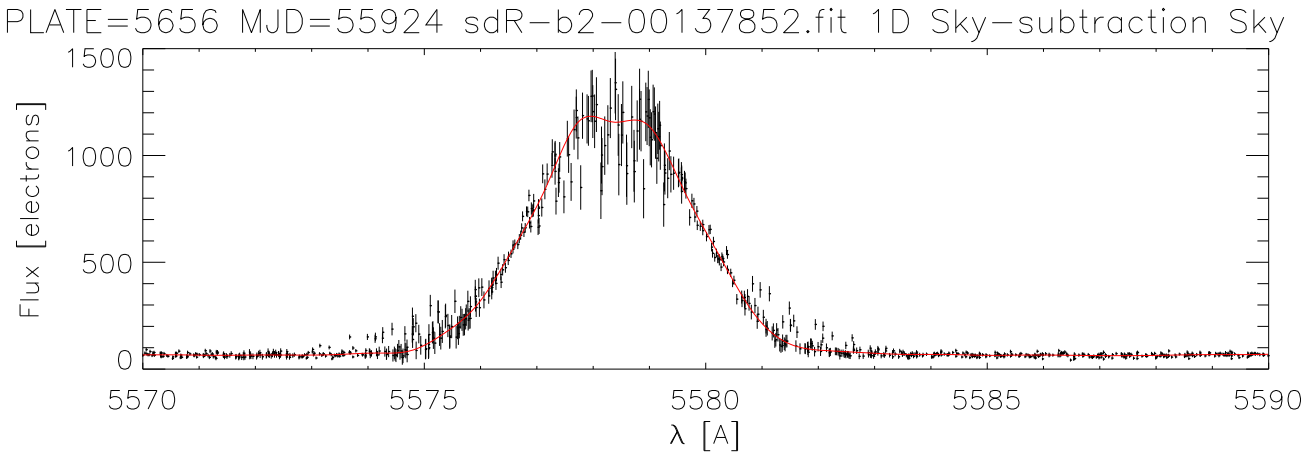

PLATE=5656 MJD=55924 Fiber-Flats for sdR-b2-00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.038
Max value = 1.971
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Mar 16 23:28:51 2019

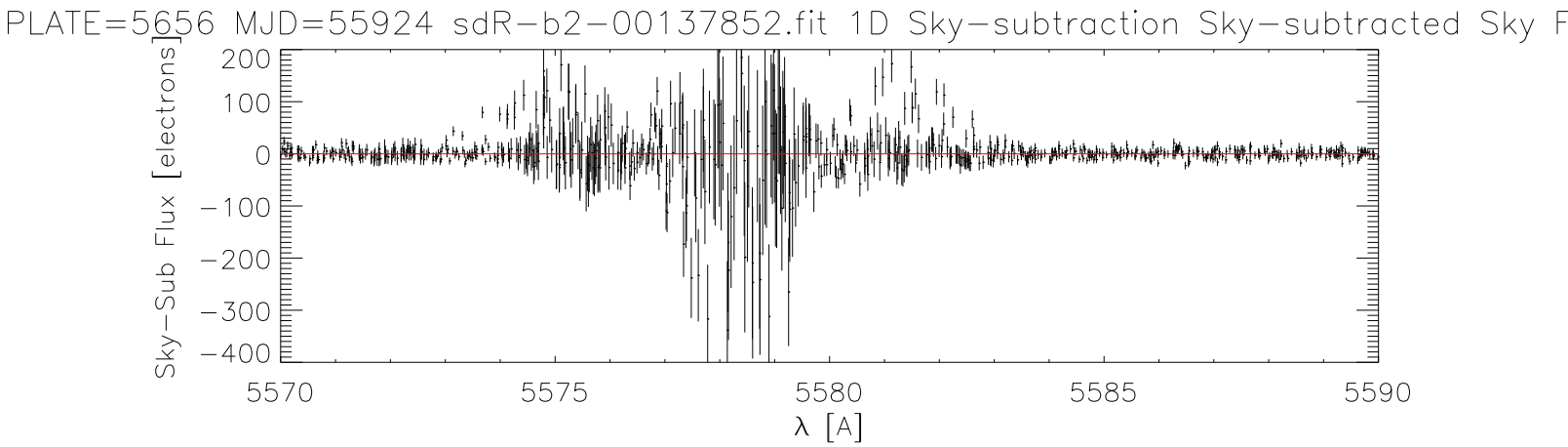

PLATE=5656 MJD=55924 Extraction chi^2 for sdR-b2-00137852.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-b2-00137852.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

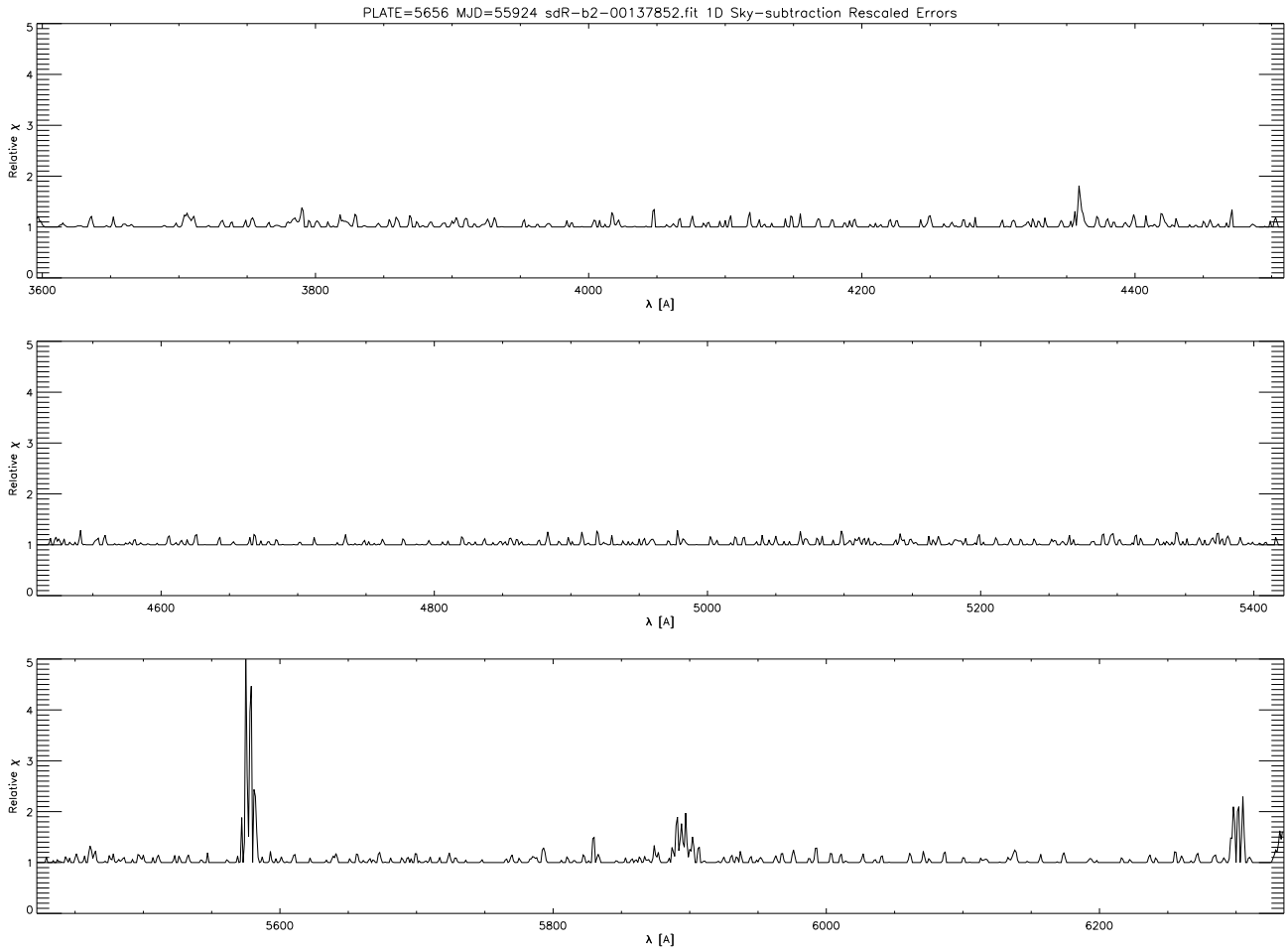

PLATE=5656 MJD=55924 Smooth superflat for sdR-b2-00137852.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

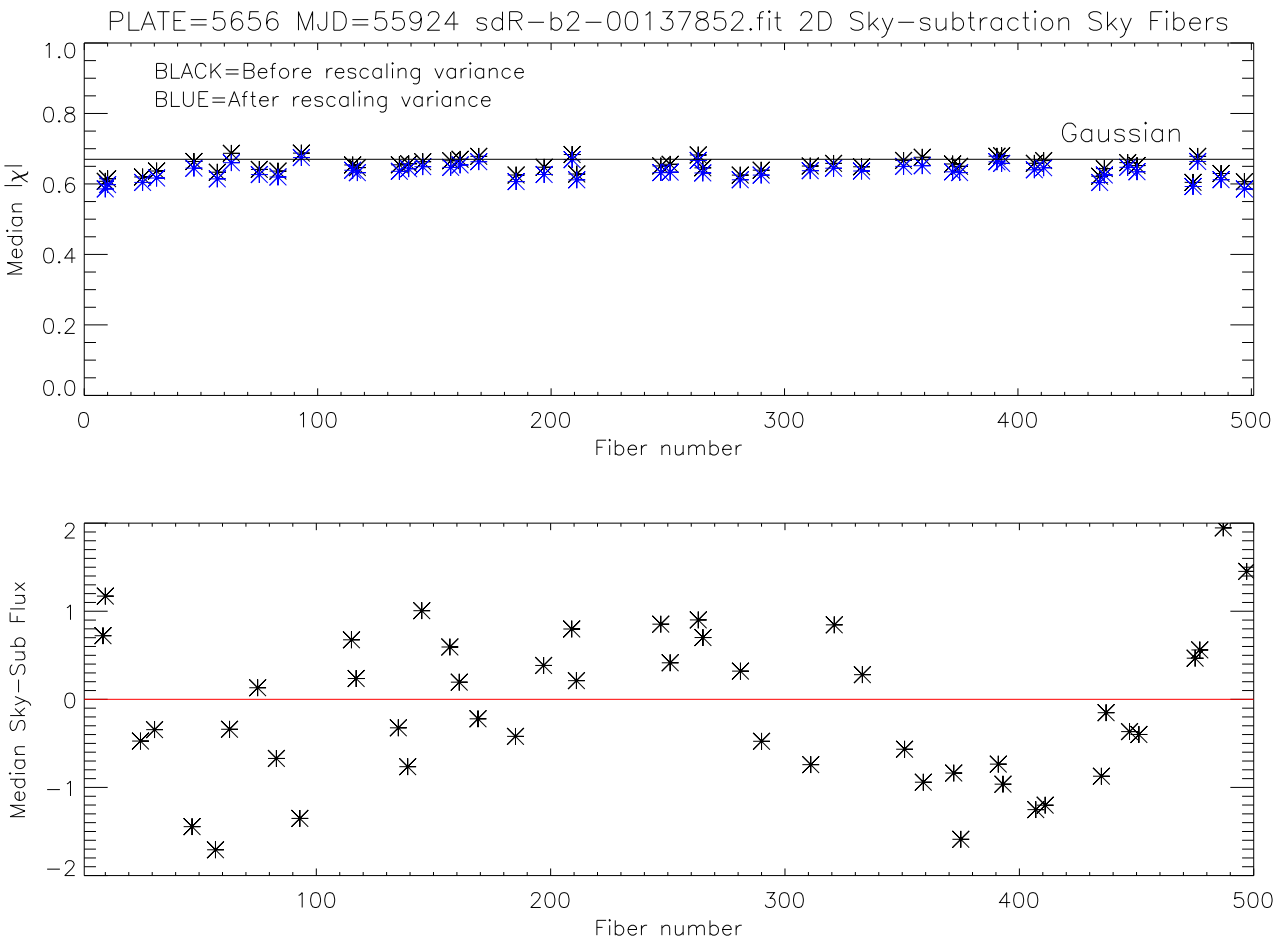

PLATE=5656 MJD=55924 sdR-b2-00137852.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

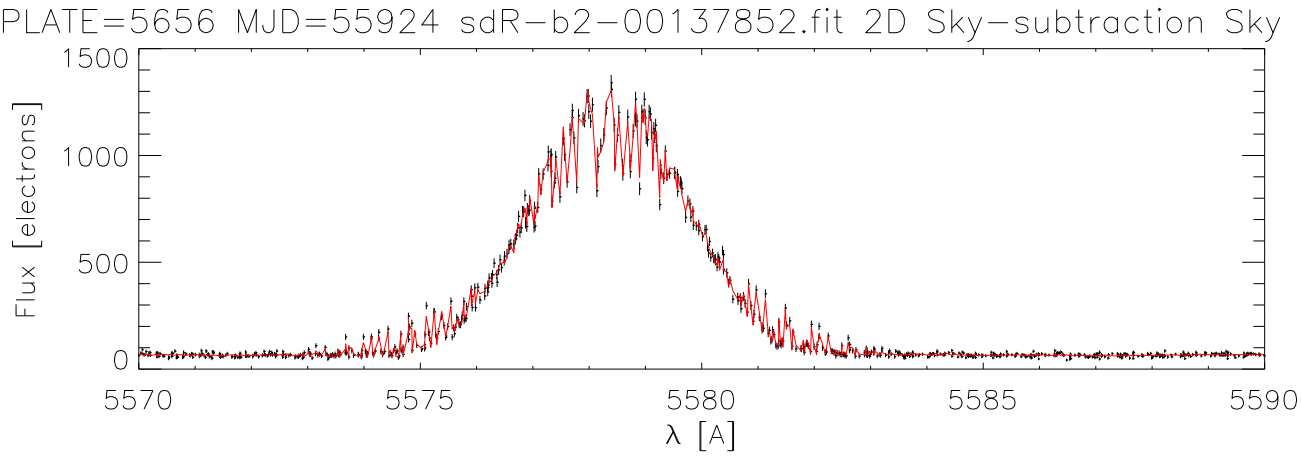

PLATE=5656 MJD=55924 sdR-b2-00137852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

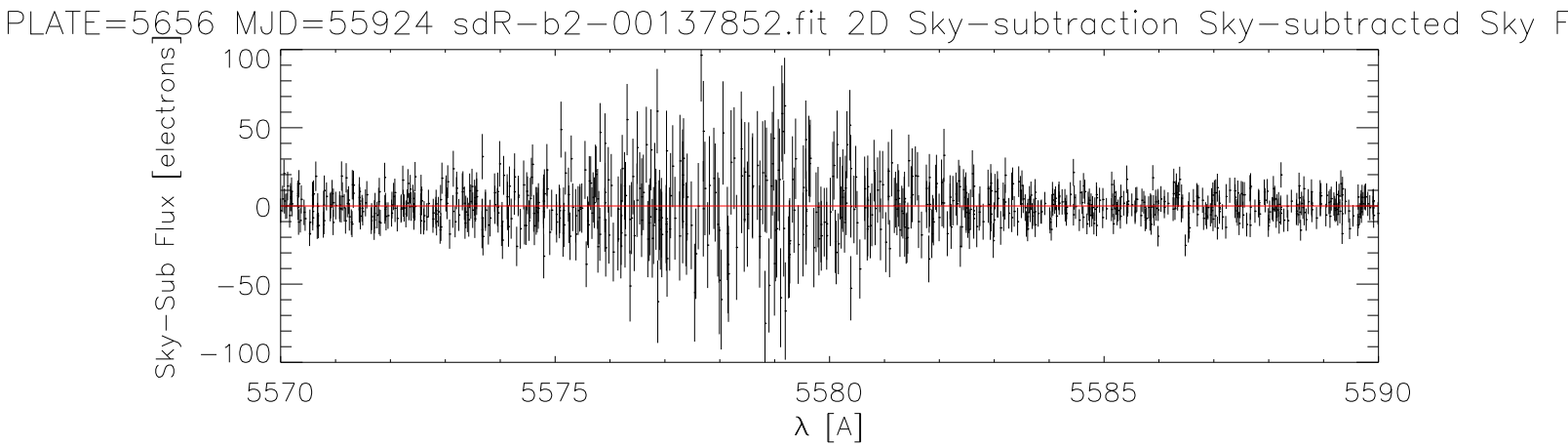

PLATE=5656 MJD=55924 sdR-b2-00137852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 47

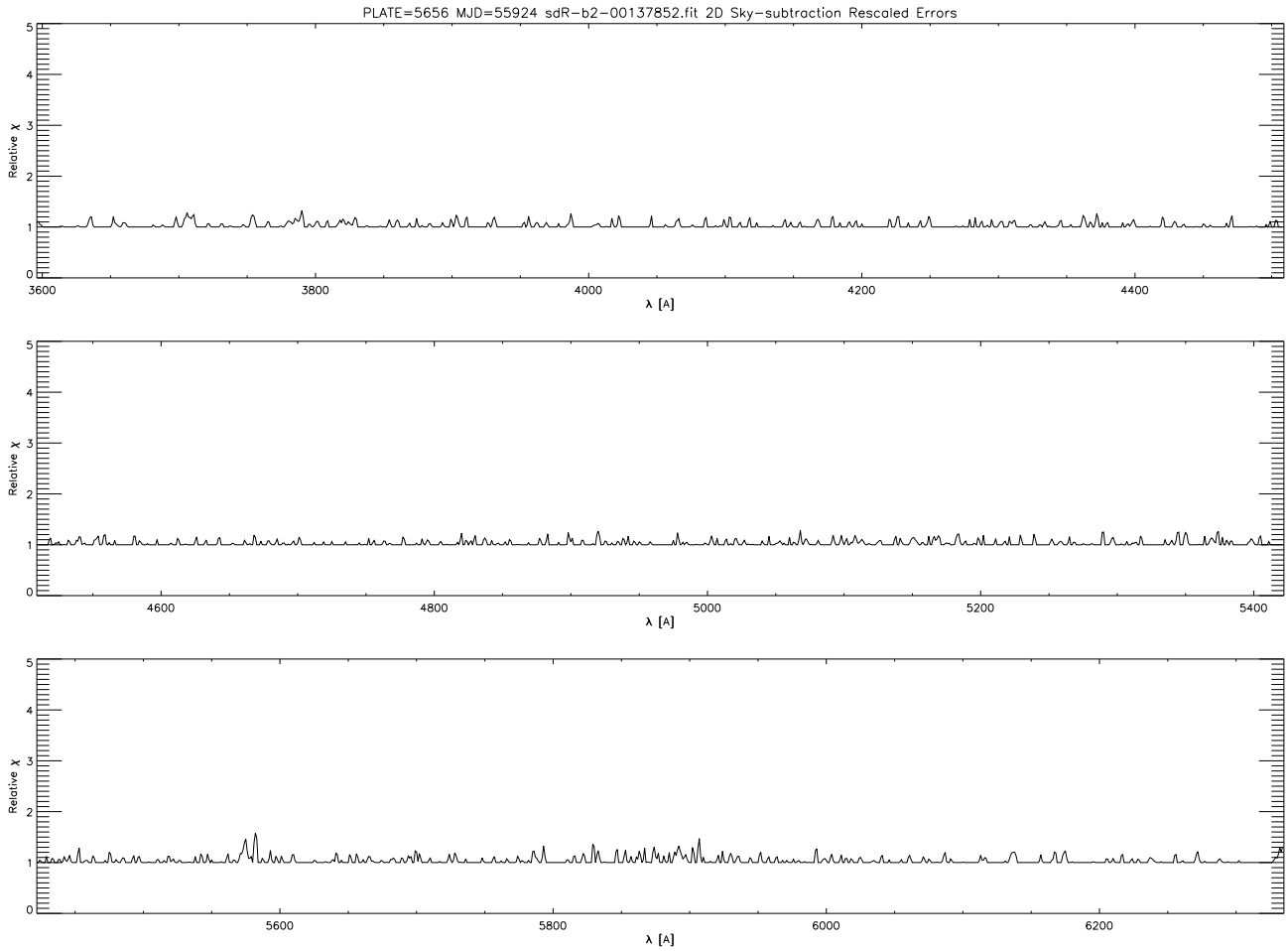


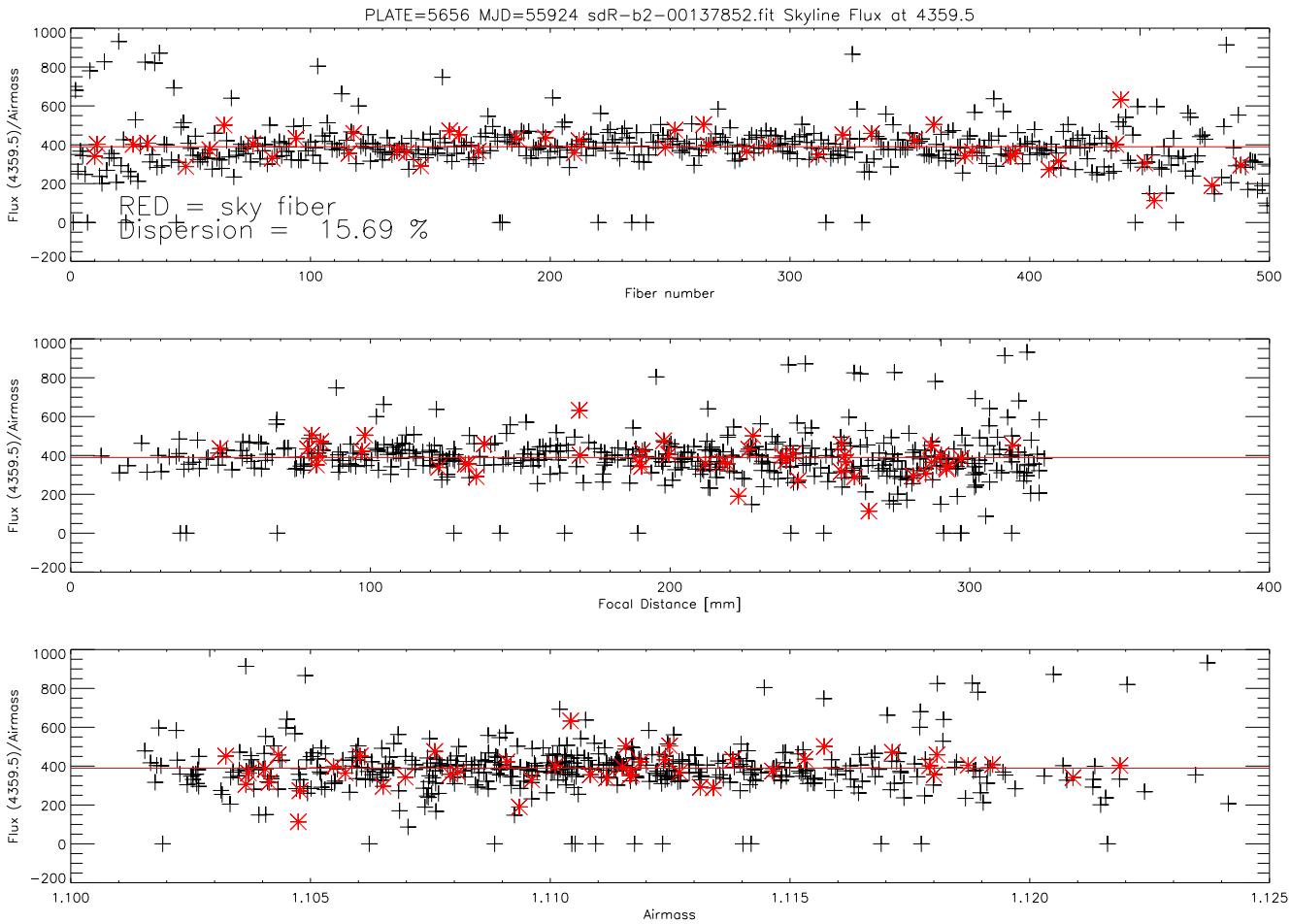

PLATE=5656 MJD=55924 sdR-b2-00137852.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

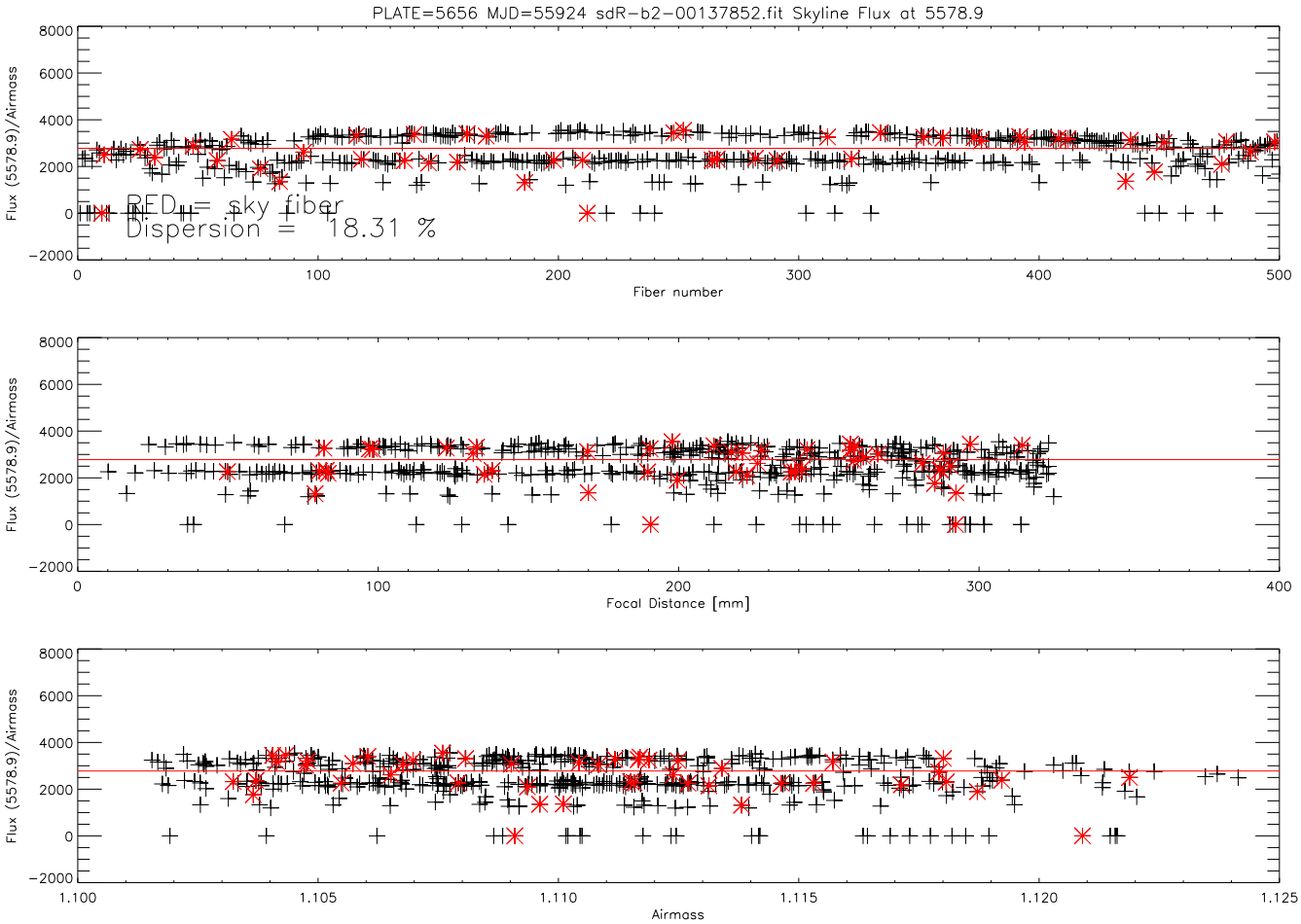

PLATE=5656 MJD=55924 sdR-b2-00137852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=5656 MJD=55924 sdR-b2-00137852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

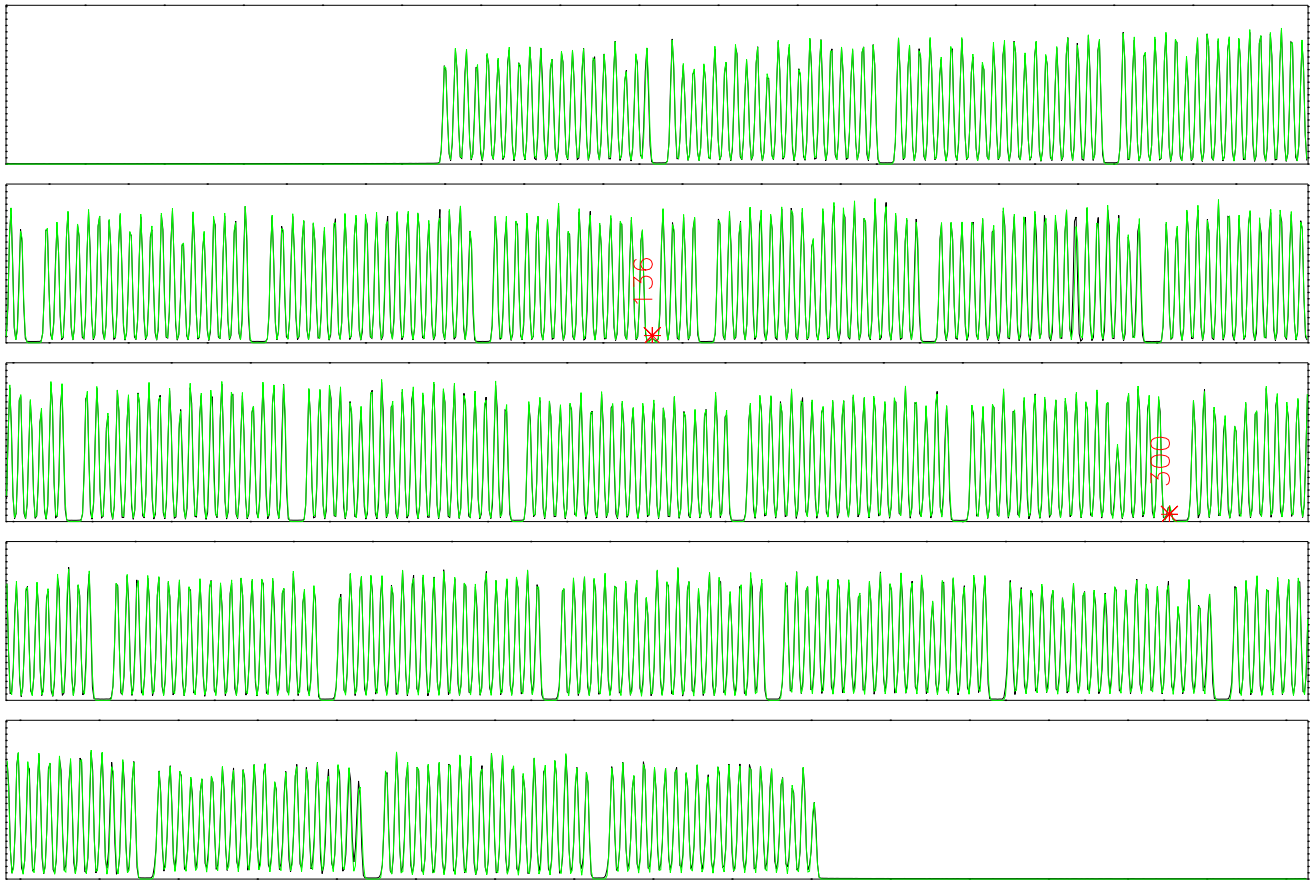
Number of sky fibers = 47

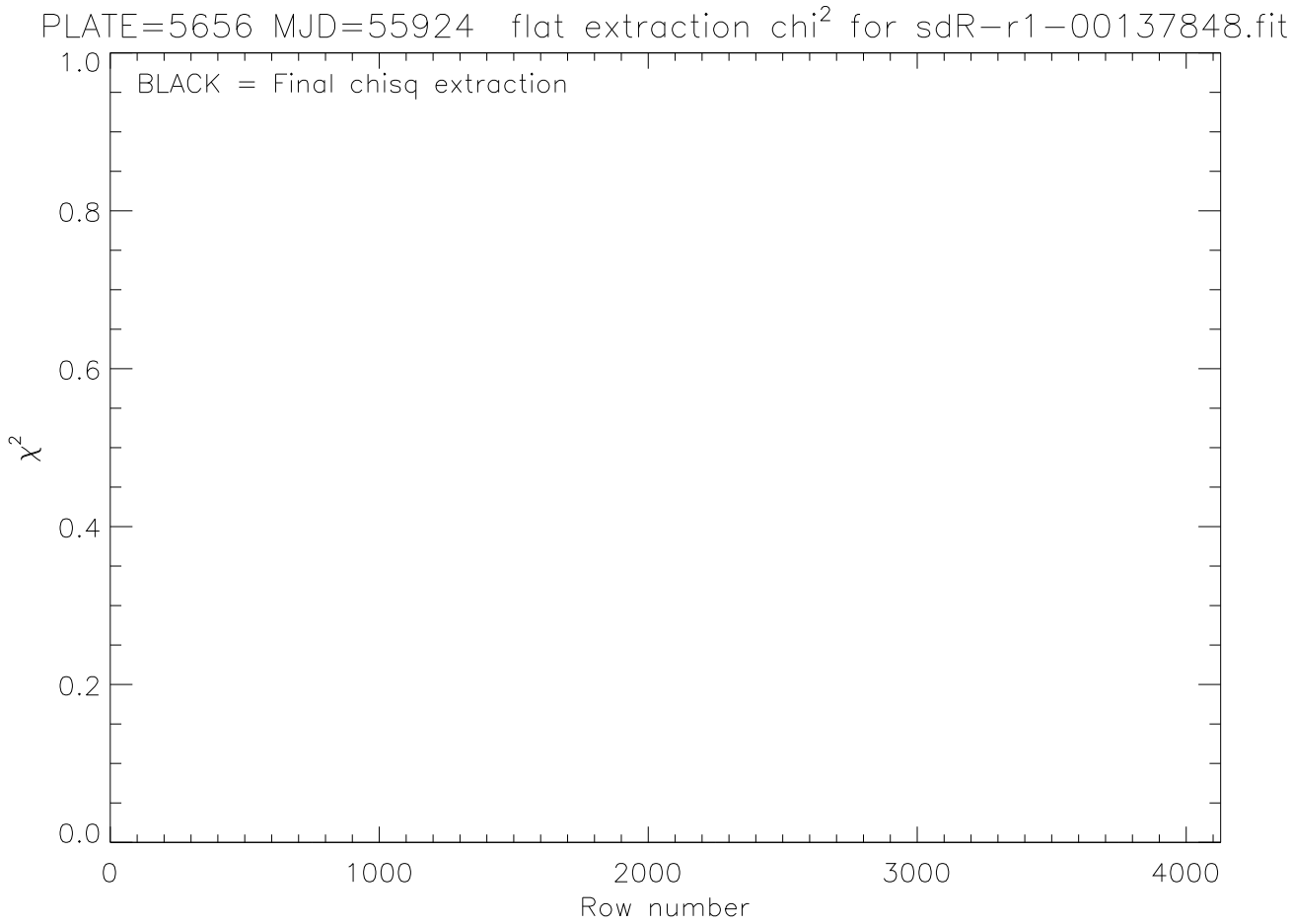


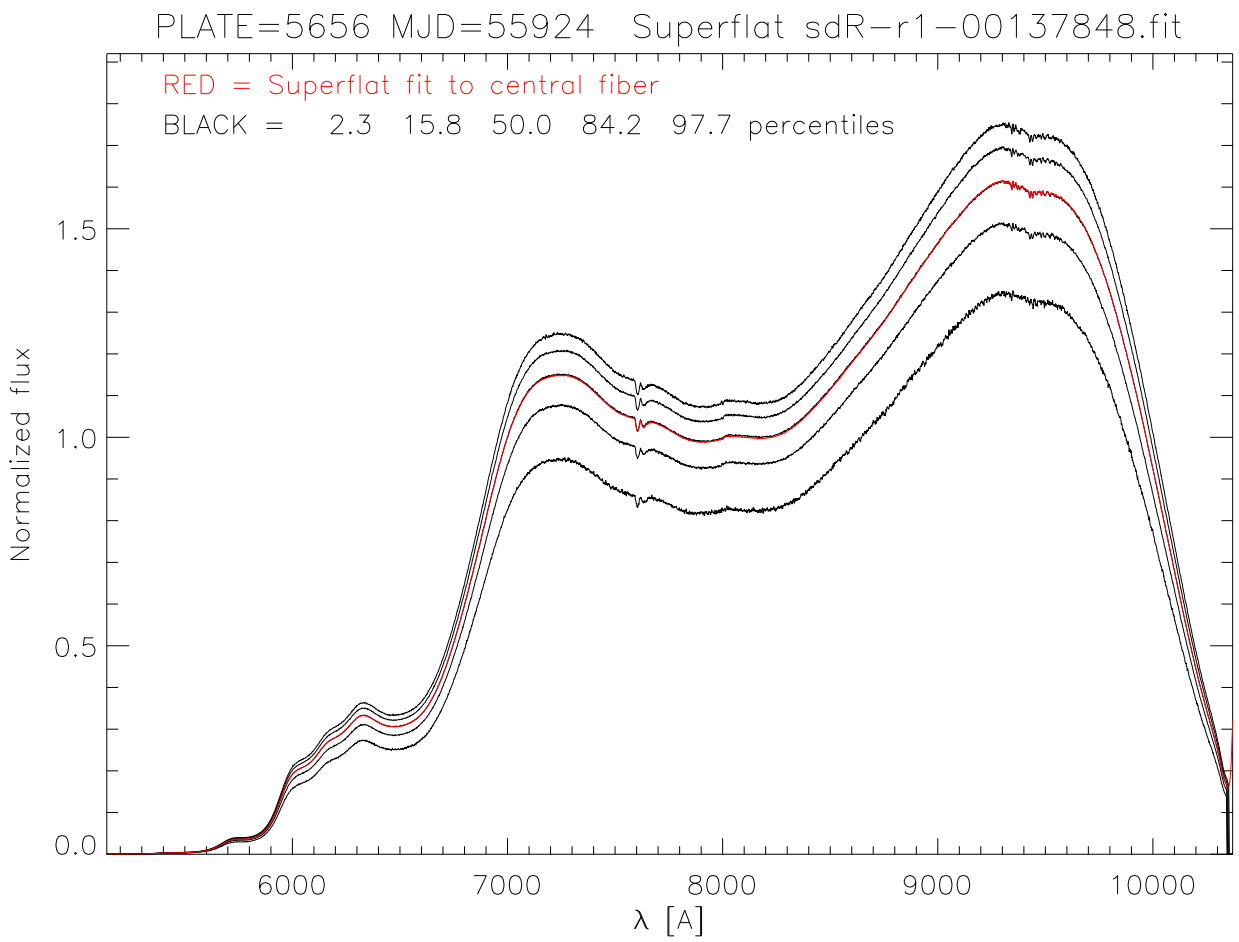

PLATE=5656 MJD=55924 sdR-b2-00137852.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.69 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

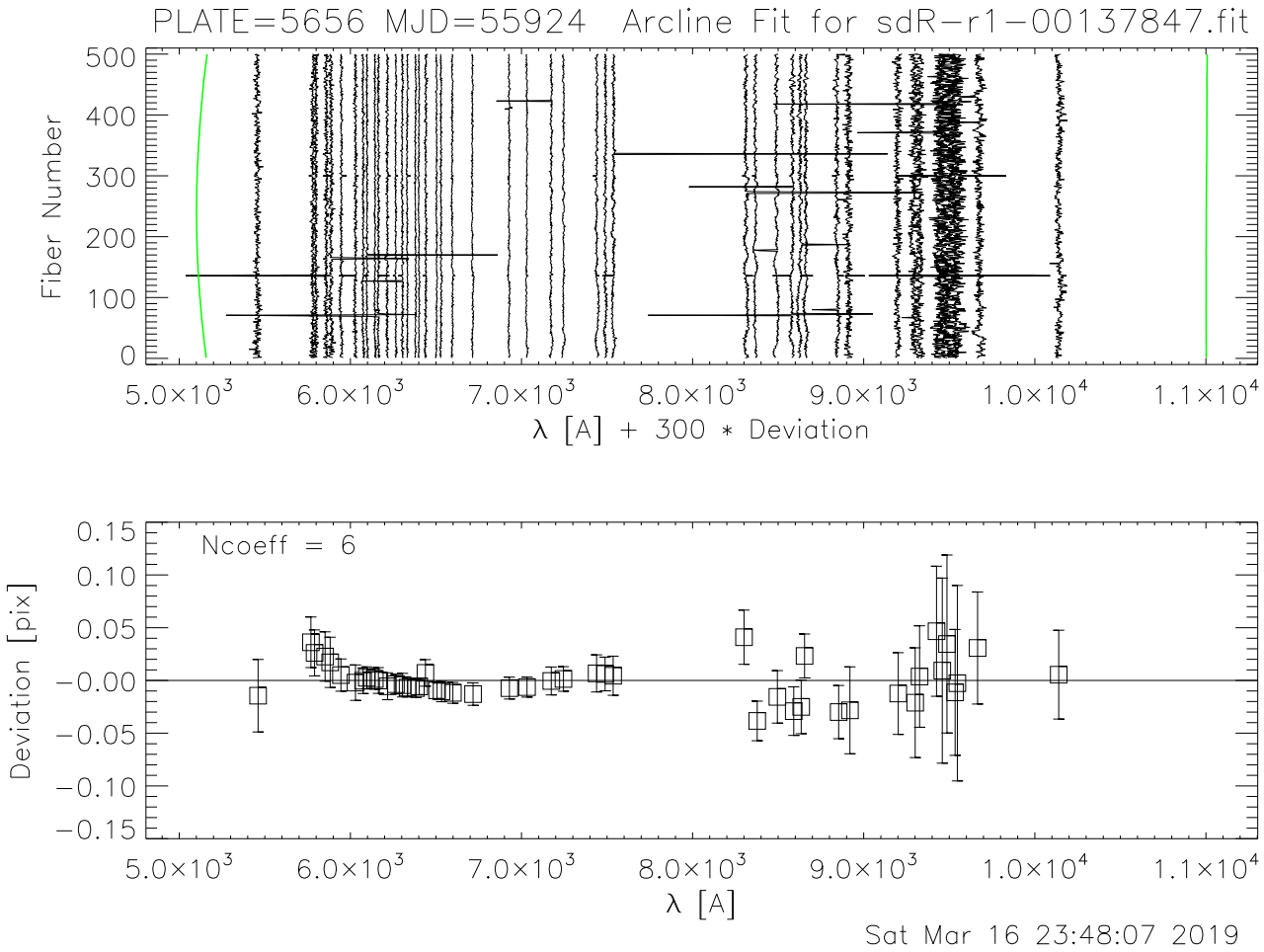

PLATE=5656 MJD=55924 sdR-b2-00137852.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.31 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

PLATE=5656 MJD=55924 Traces sdR-r1-00137848.fit

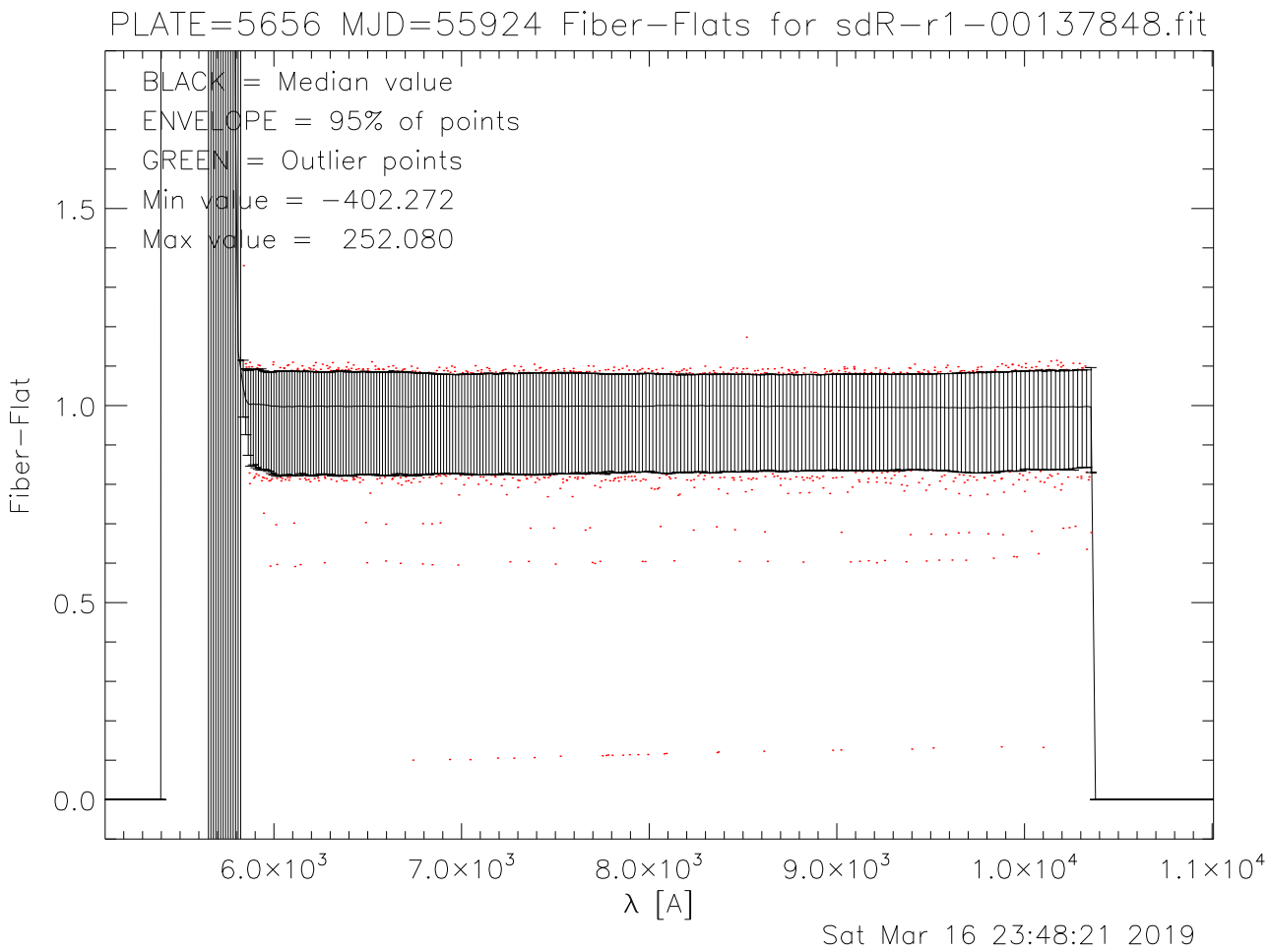


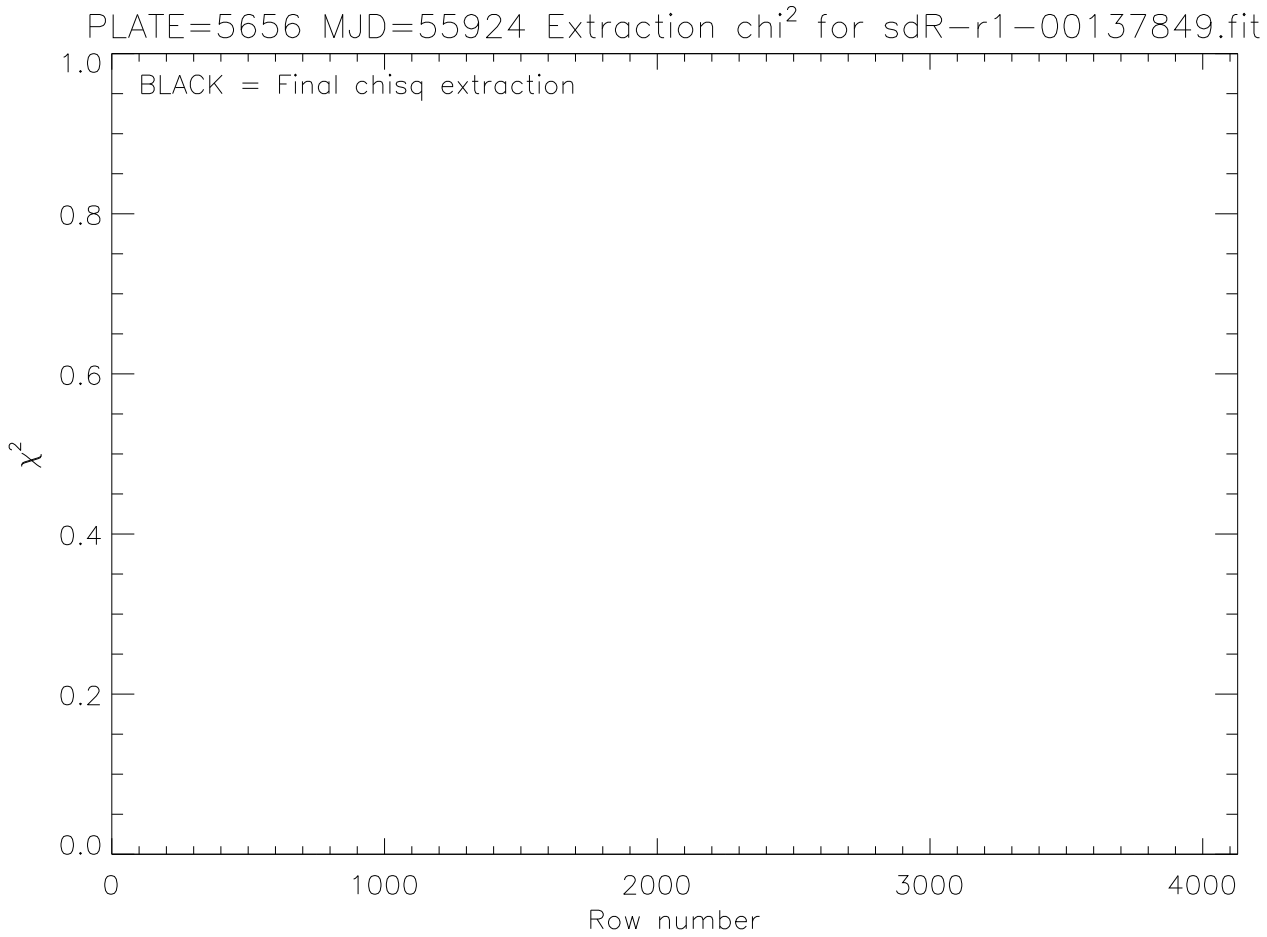

PLATE=5656 MJD=55924 flat extraction chi^2 for sdR-r1-00137848.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

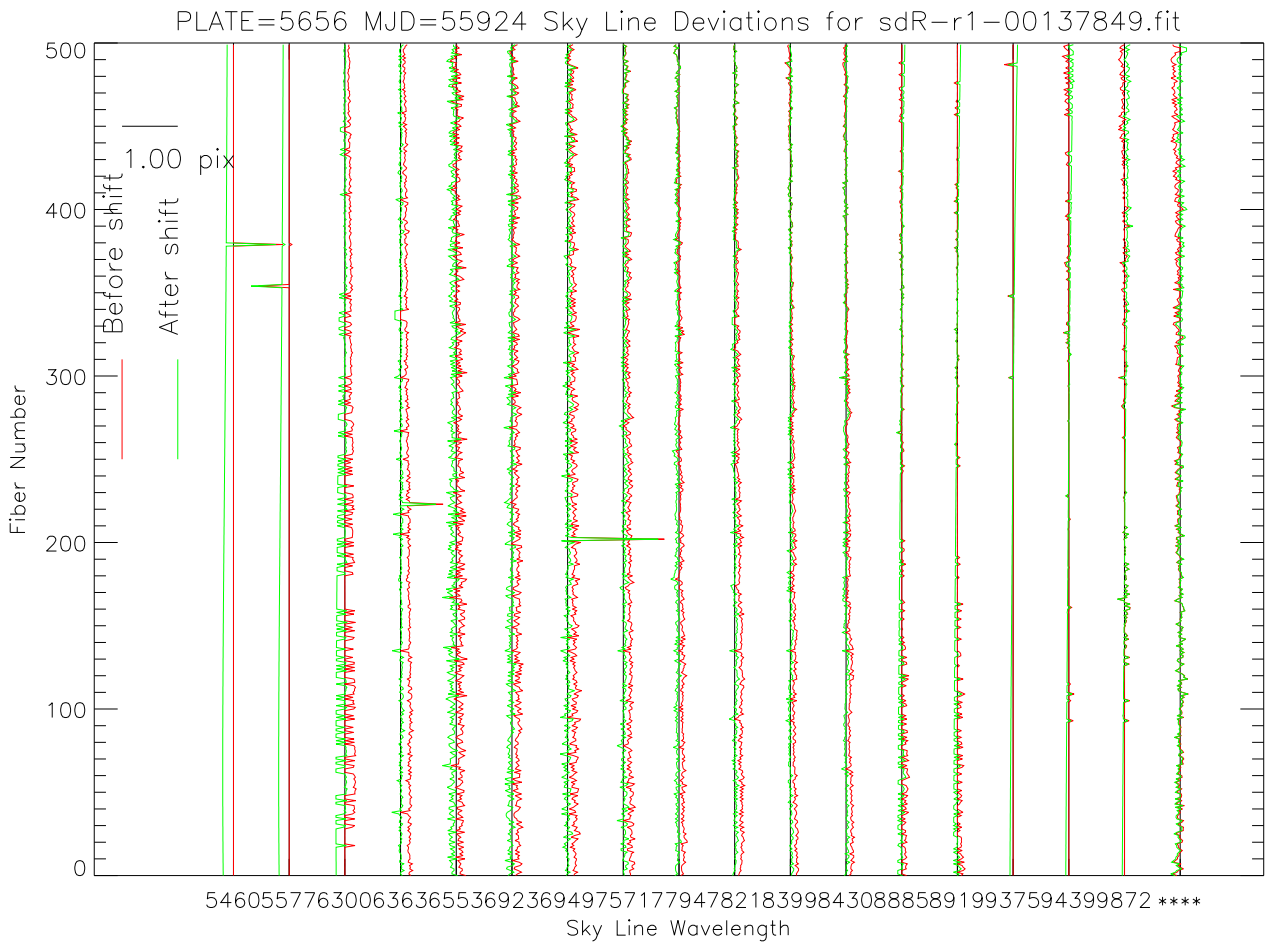

PLATE=5656 MJD=55924 Superflat sdR-r1-00137848.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

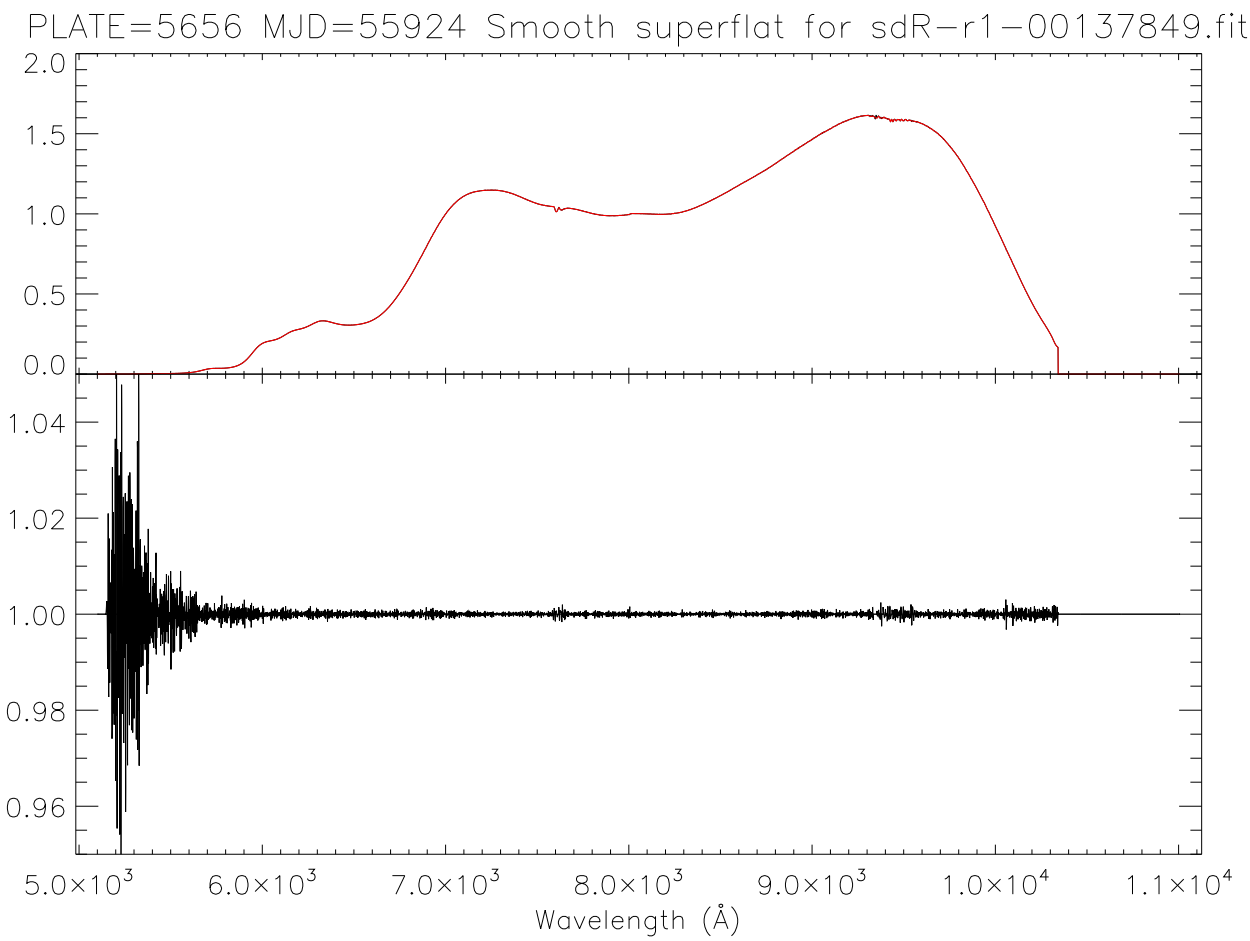

PLATE=5656 MJD=55924 Arcline Fit for sdR-r1-00137847.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

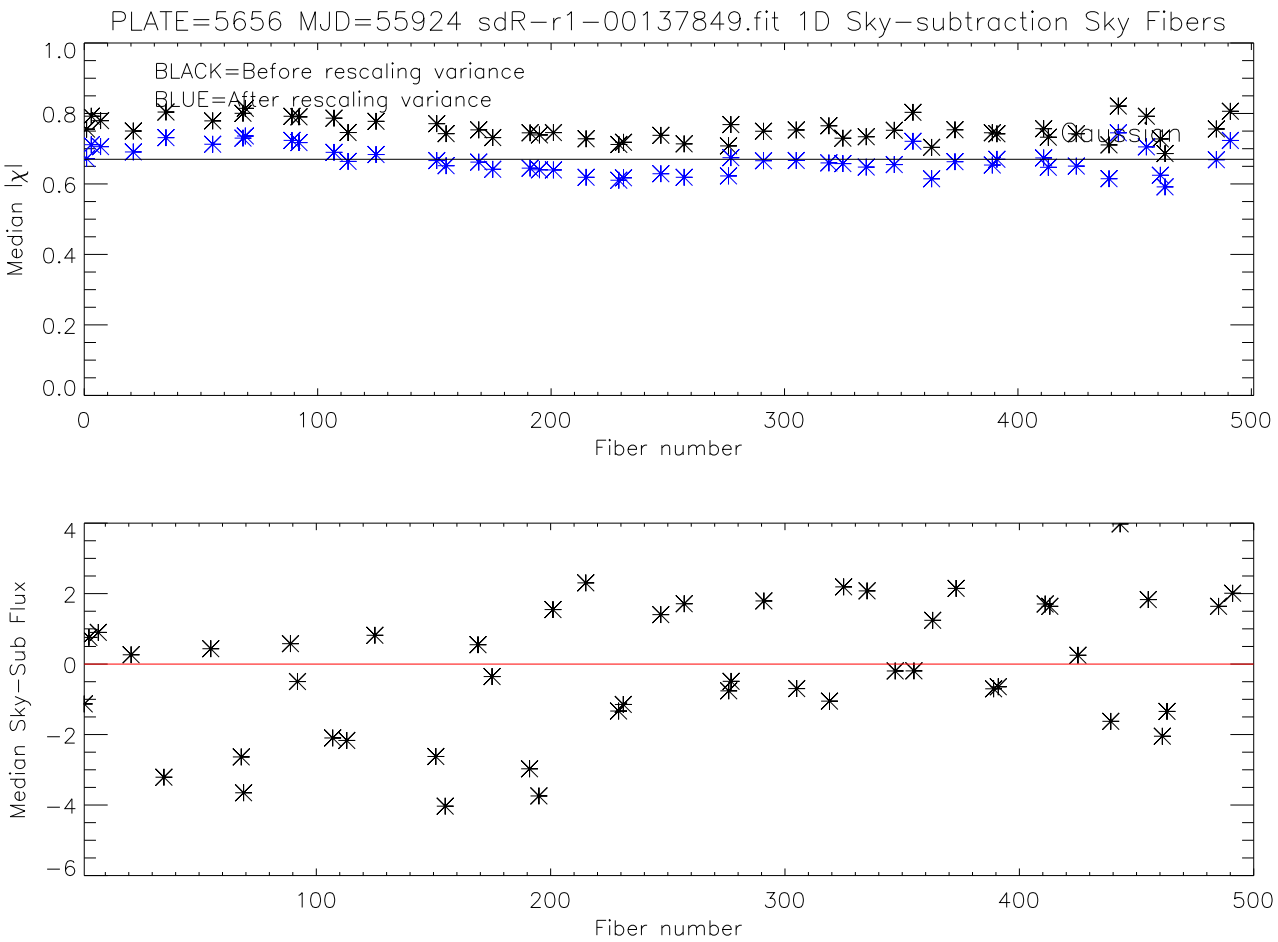
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Mar 16 23:48:07 2019

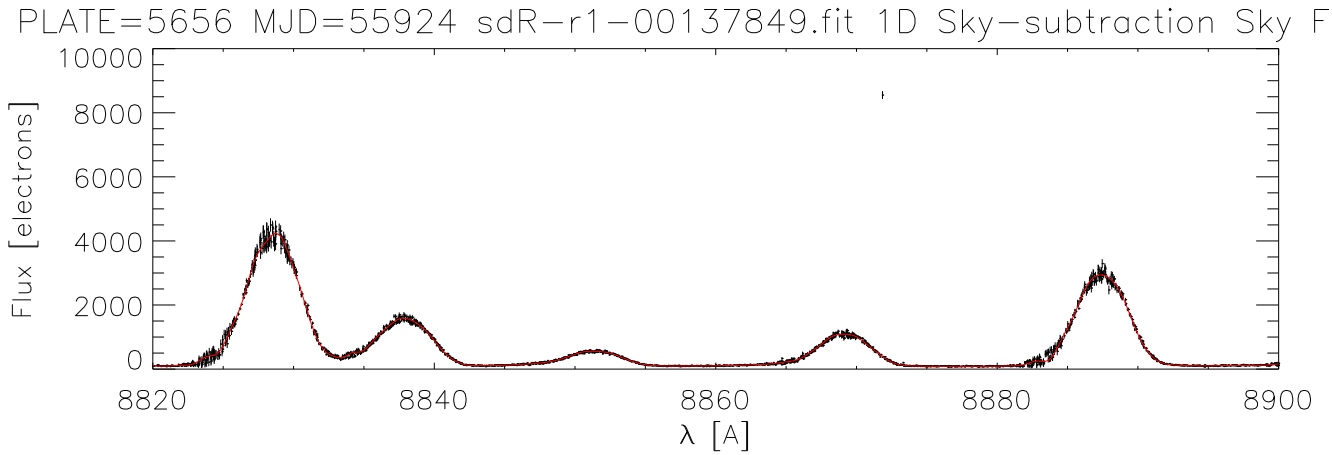

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r1−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −402.272
Max value = 252.080
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Mar 16 23:48:21 2019

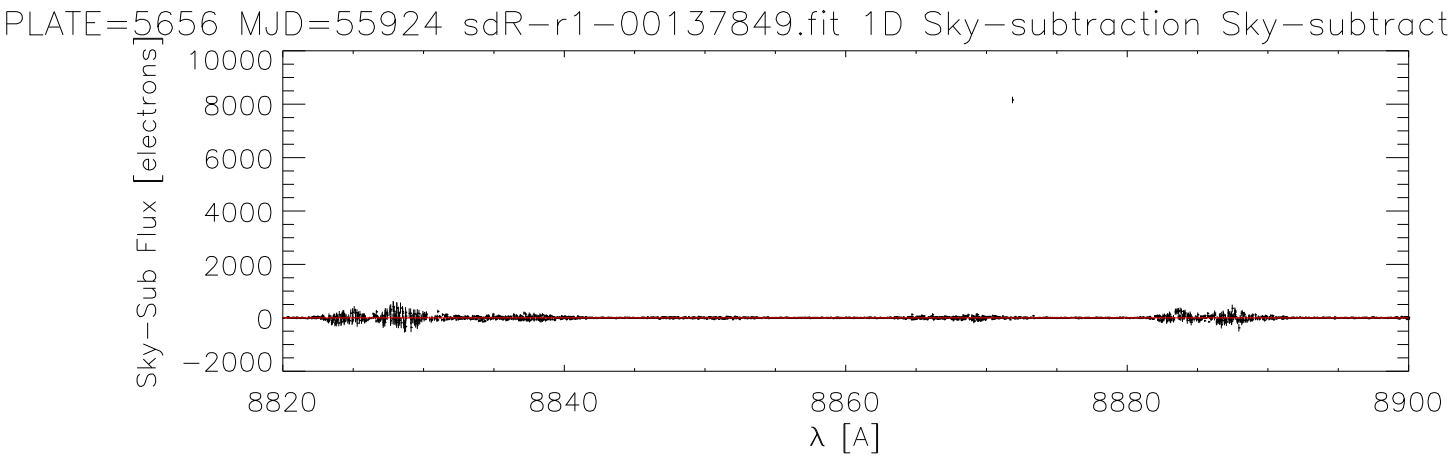

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r1−00137849.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r1-00137849.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460557763006363655369236949757177947821839984308885891993759439987 ****
Sky Line Wavelength

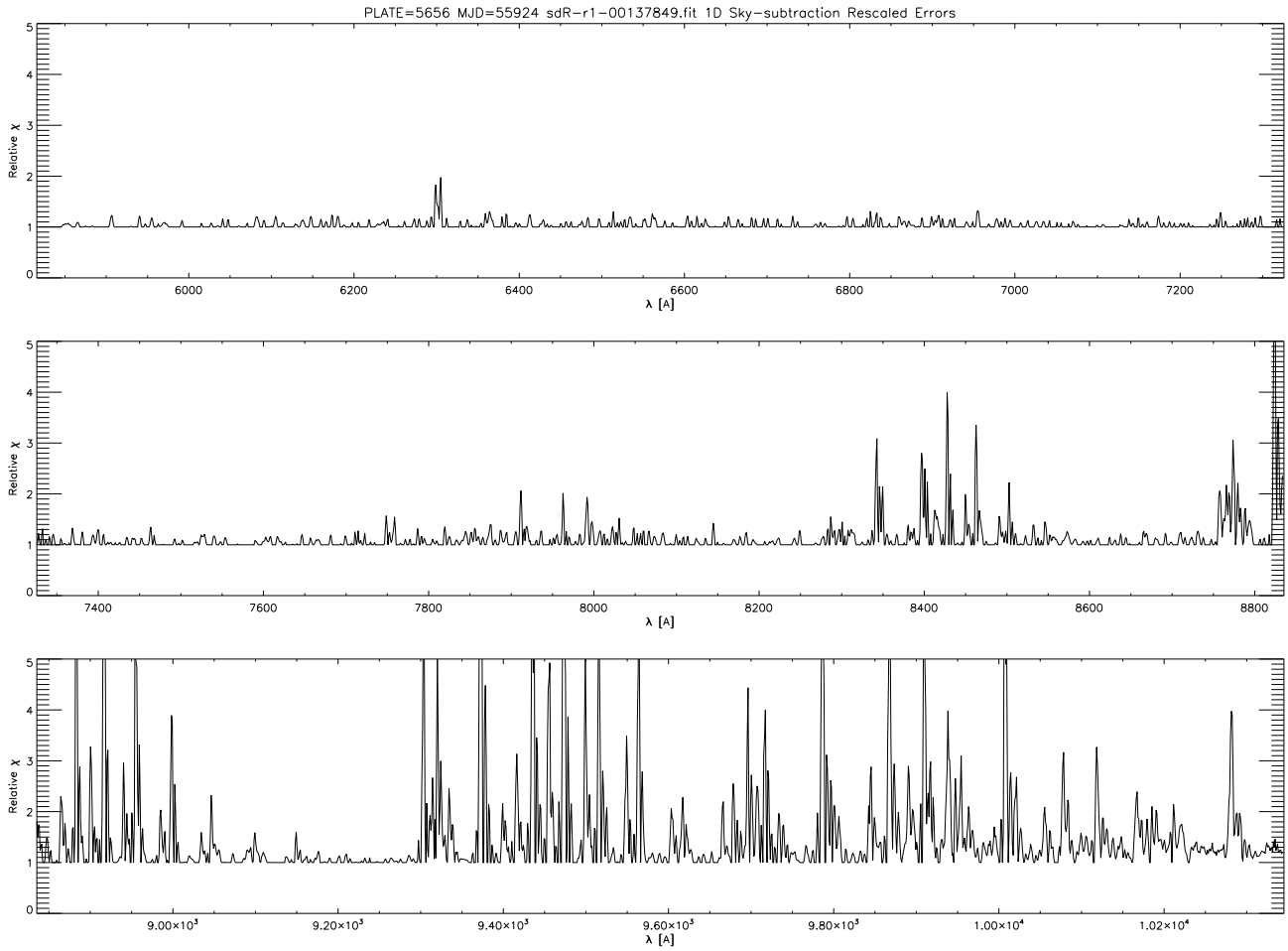

PLATE=5656 MJD=55924 Smooth superflat for sdR-r1-00137849.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

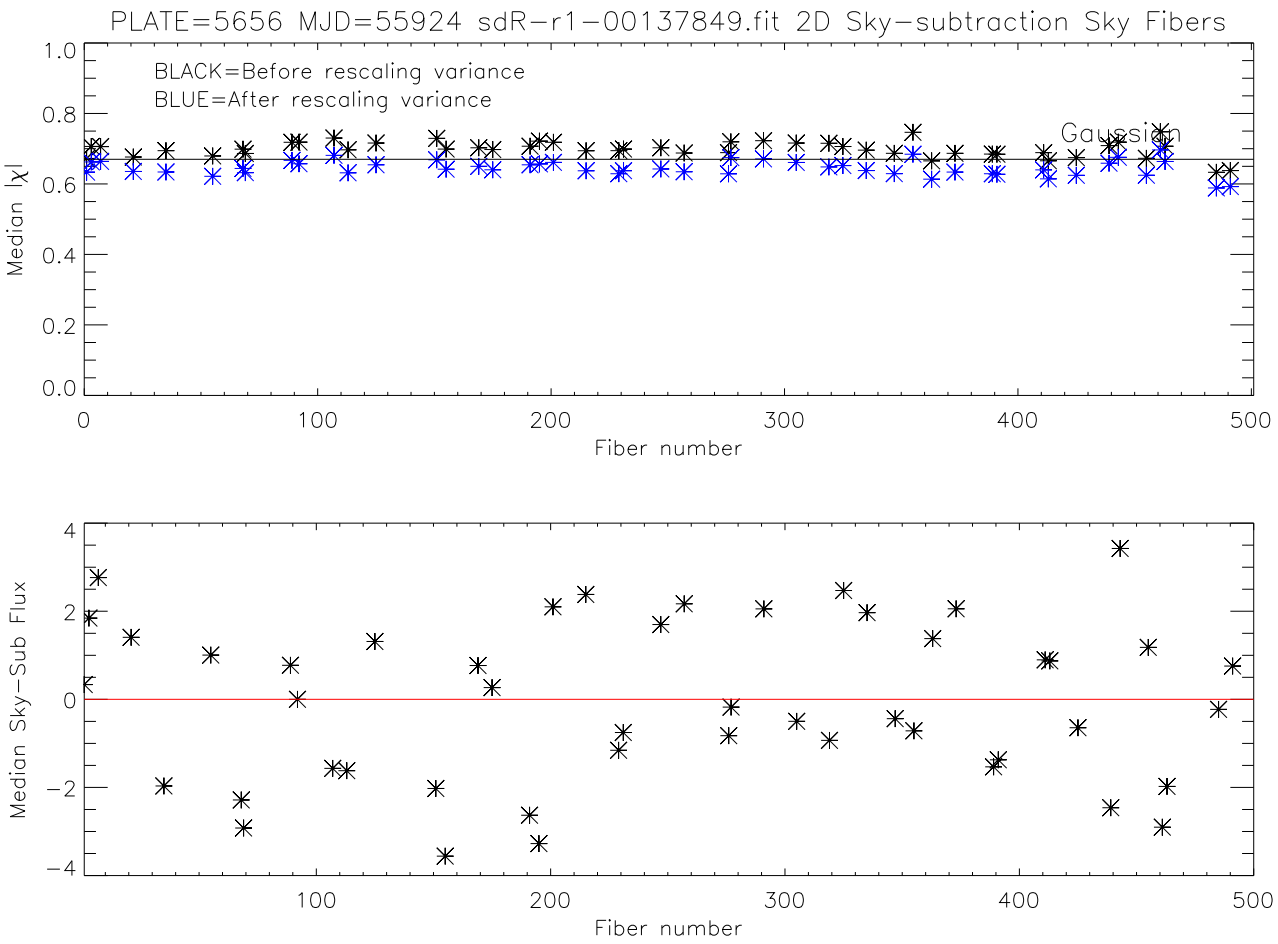

PLATE=5656 MJD=55924 sdR-r1-00137849.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=5656 MJD=55924 sdR-r1-00137849.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

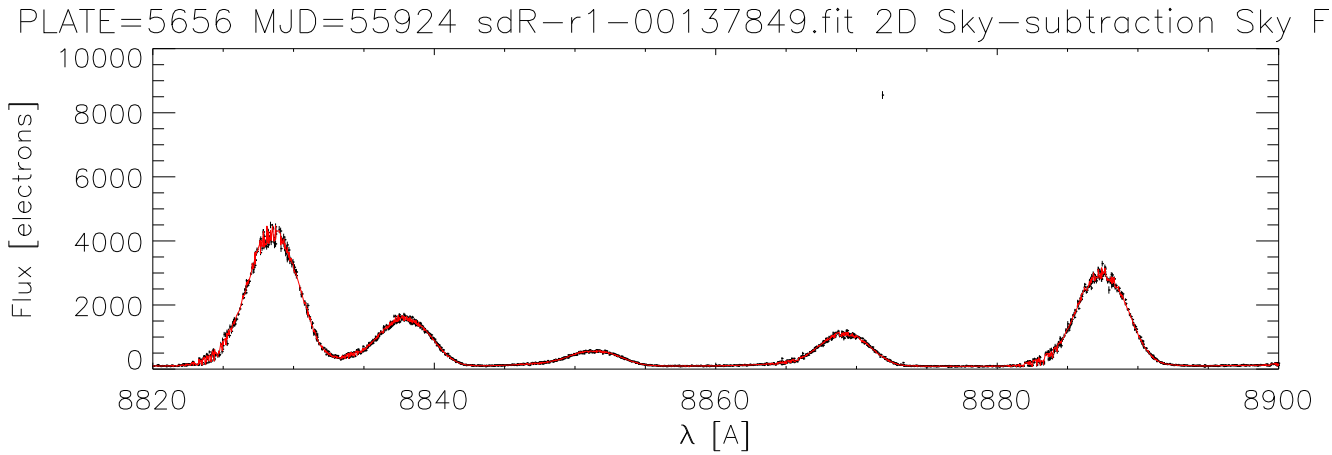

PLATE=5656 MJD=55924 sdR-r1-00137849.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

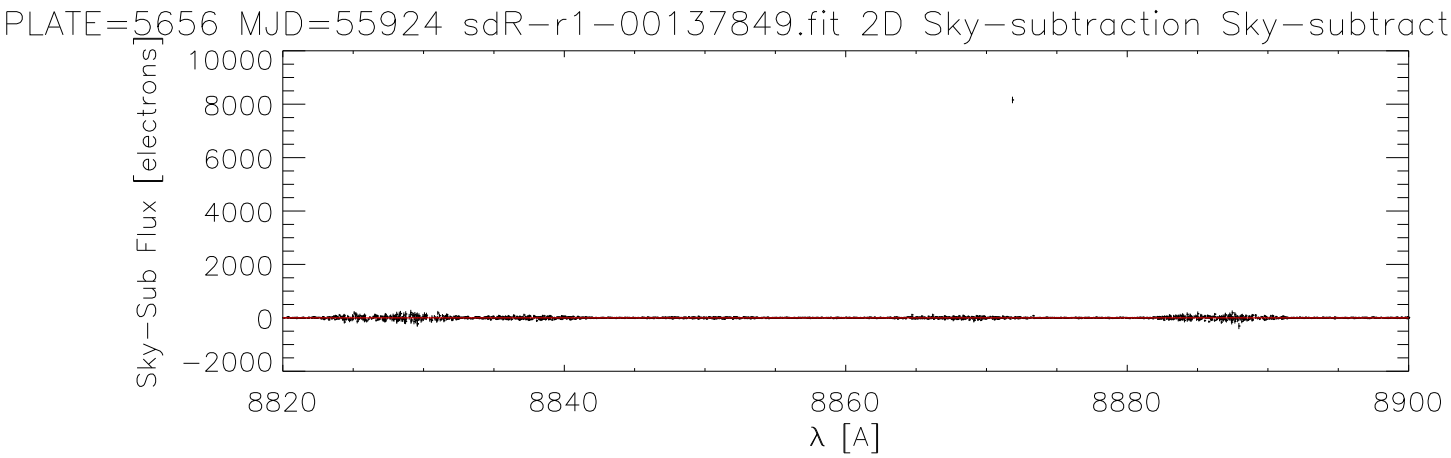
Number of sky fibers = 48



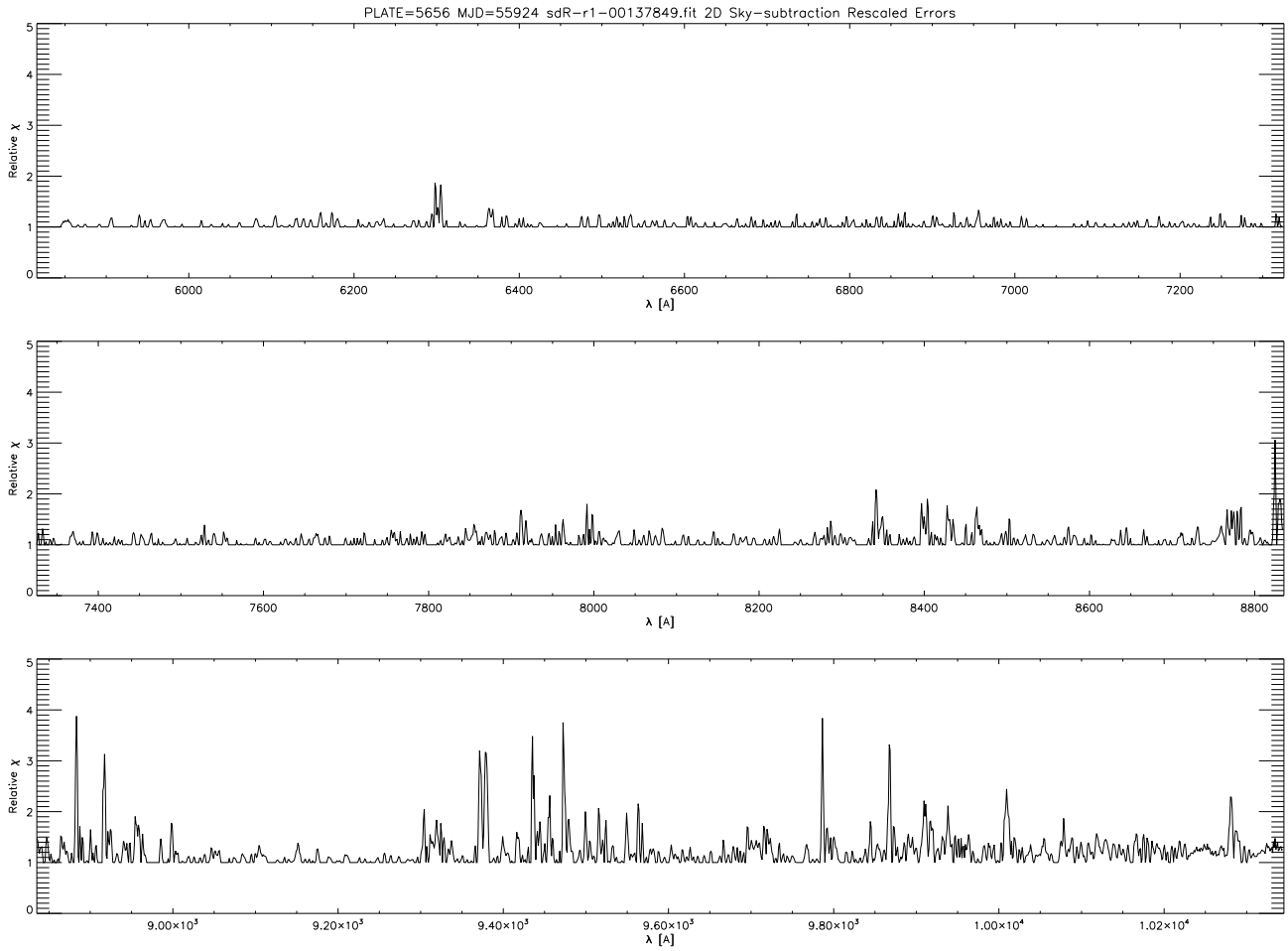

PLATE=5656 MJD=55924 sdR-r1-00137849.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

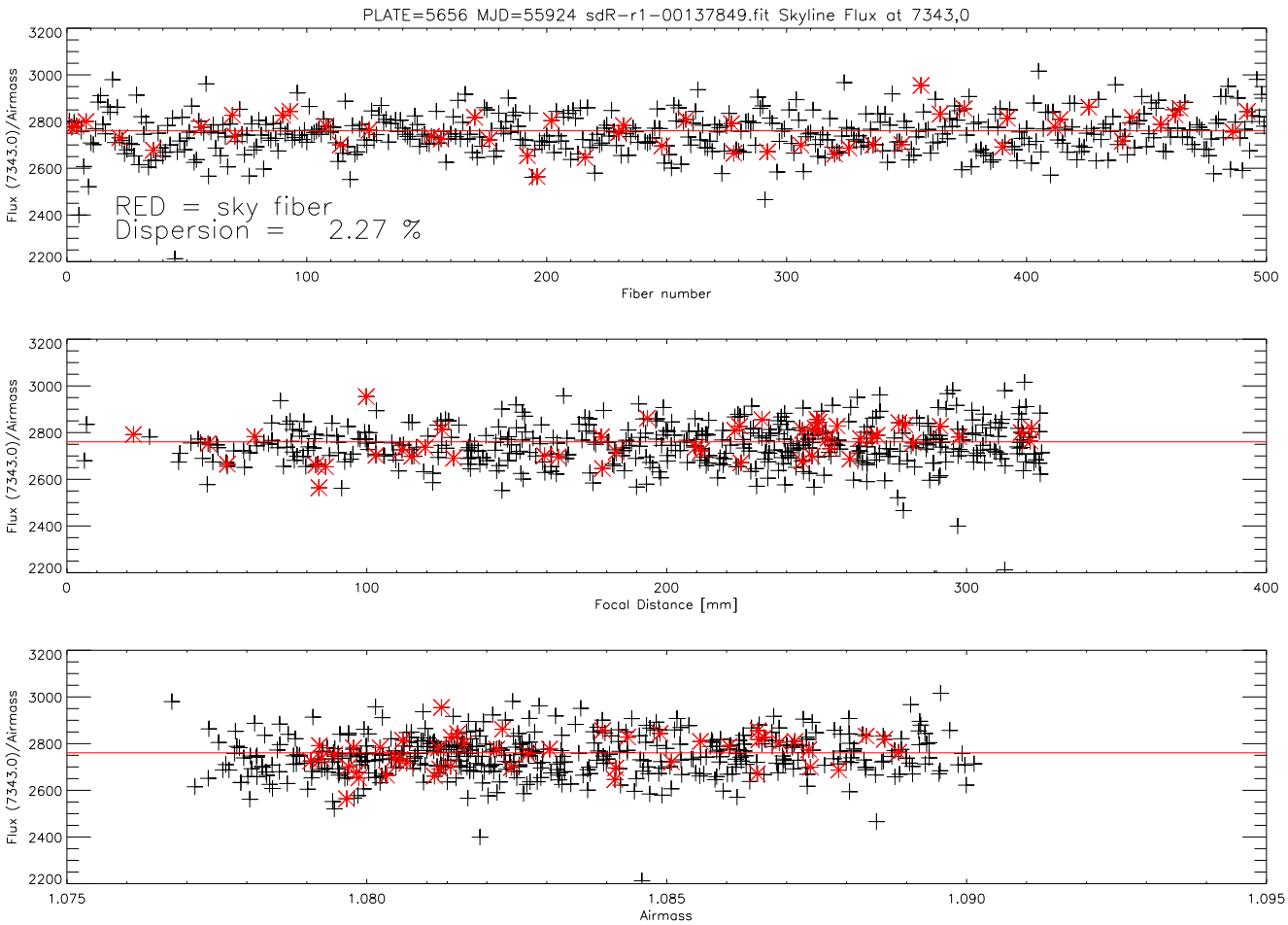
Median Sky-Sub Flux
Fiber number
4
2
0
−2
−4
100
200
300
400
500

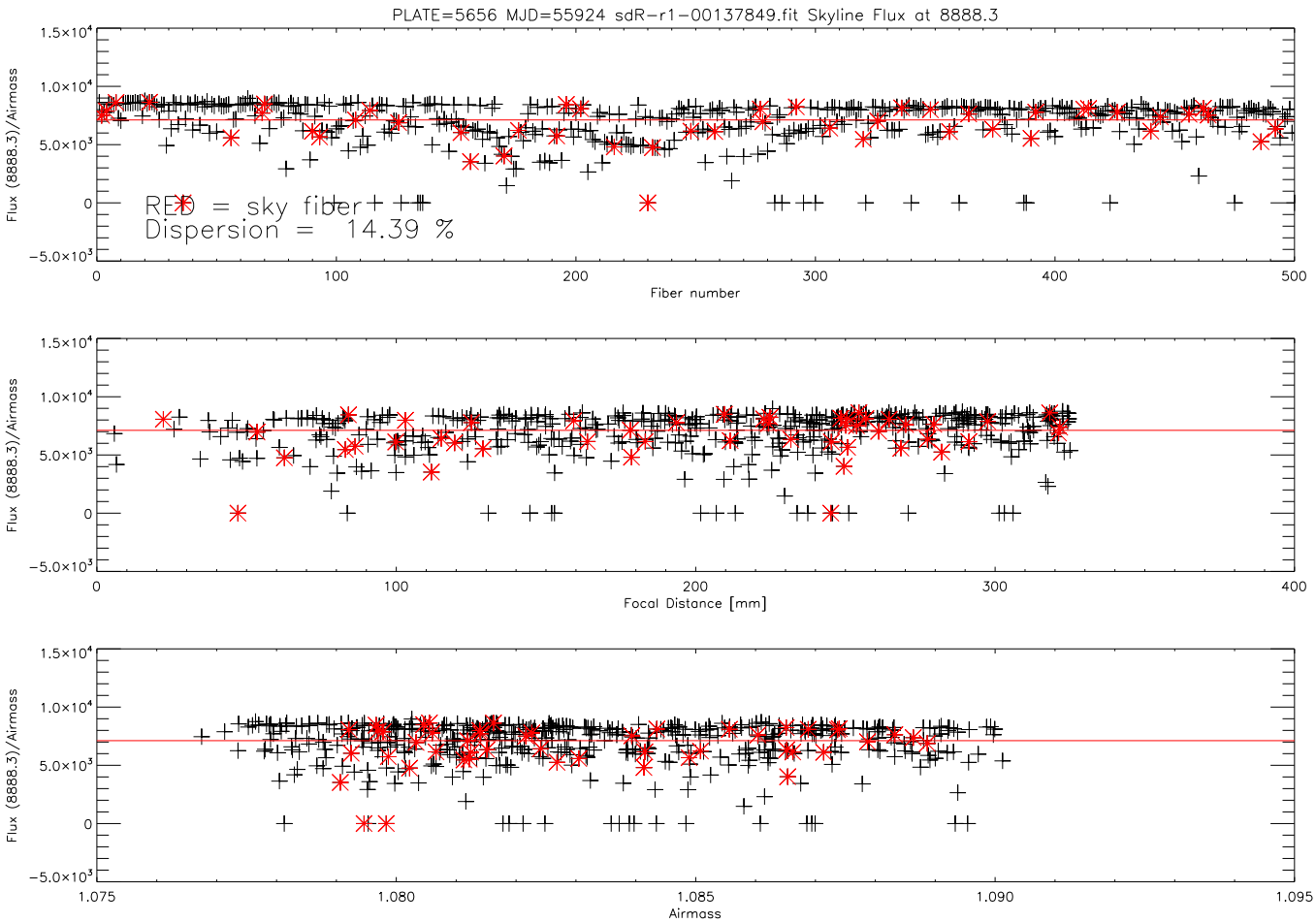

PLATE=5656 MJD=55924 sdR-r1-00137849.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

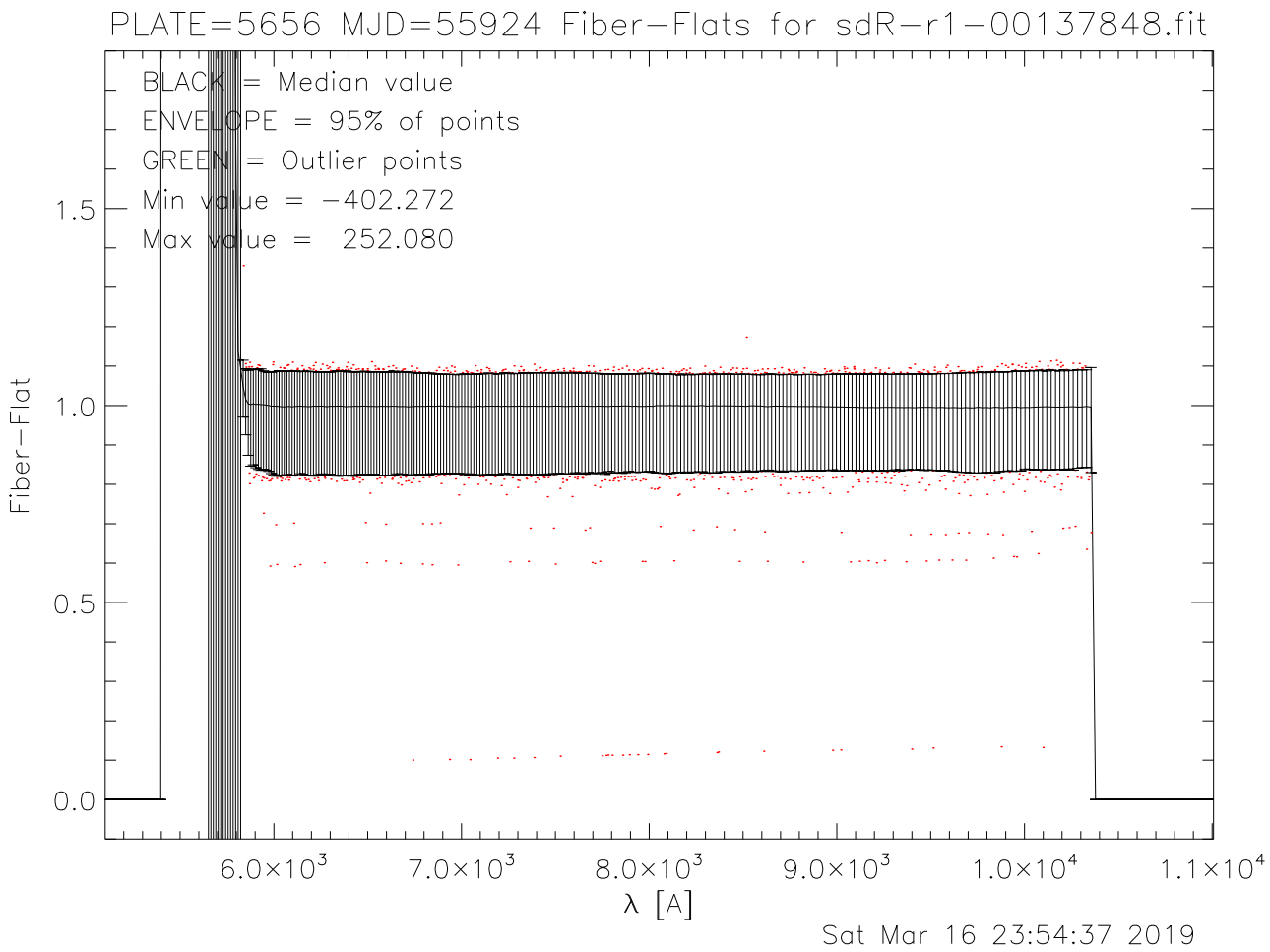

PLATE=5656 MJD=55924 sdR-r1-00137849.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

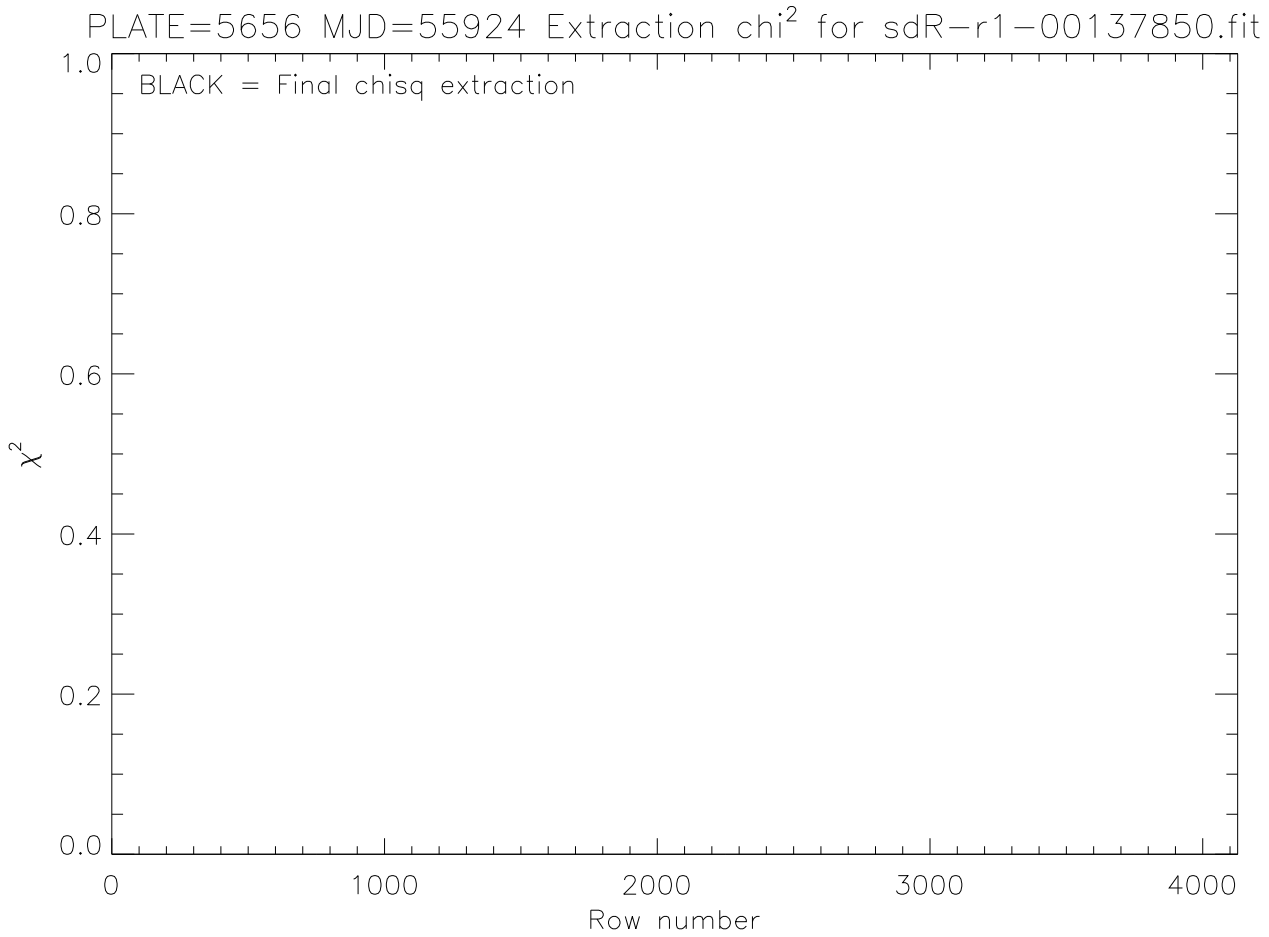
Number of sky fibers = 48

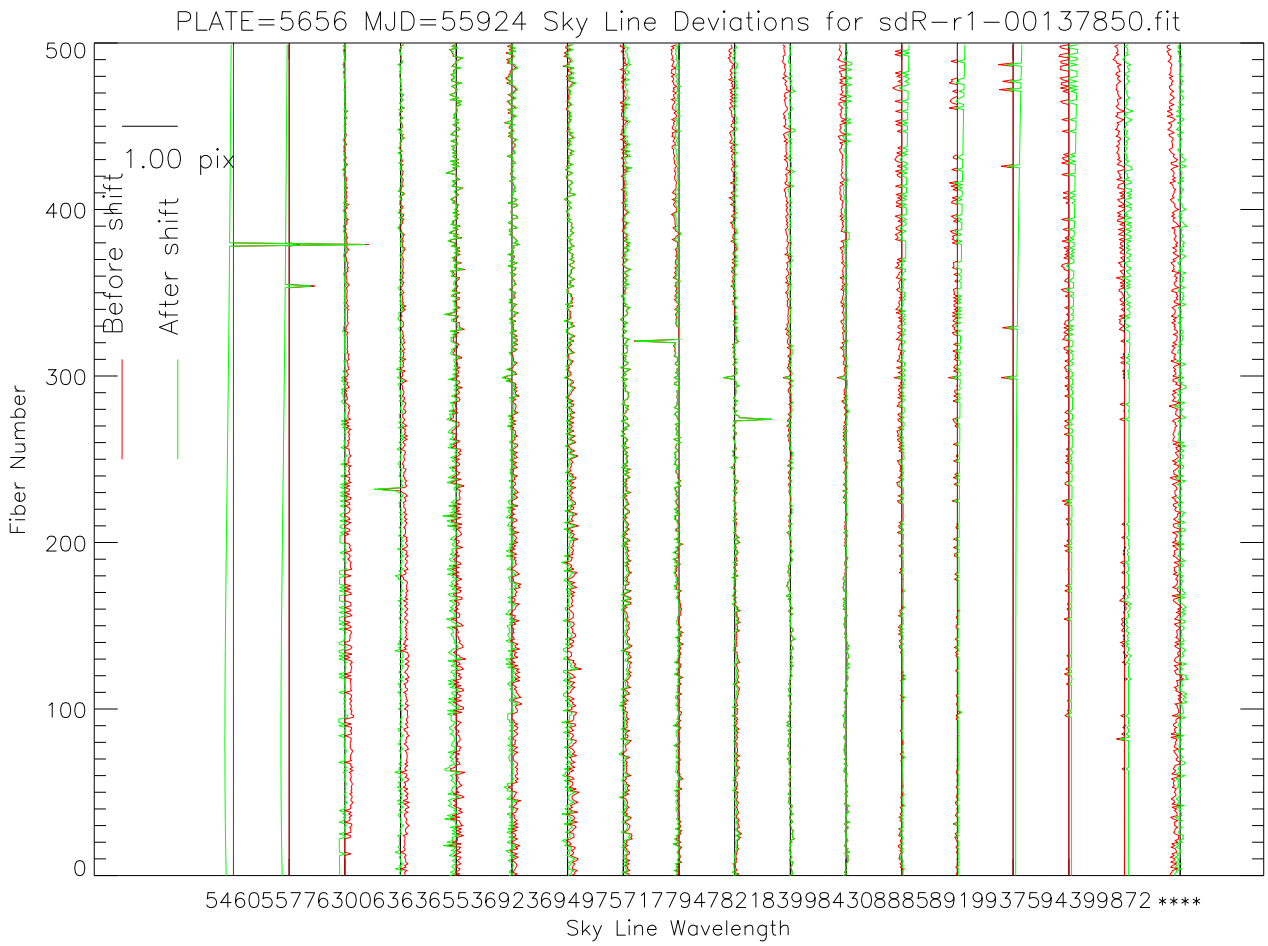


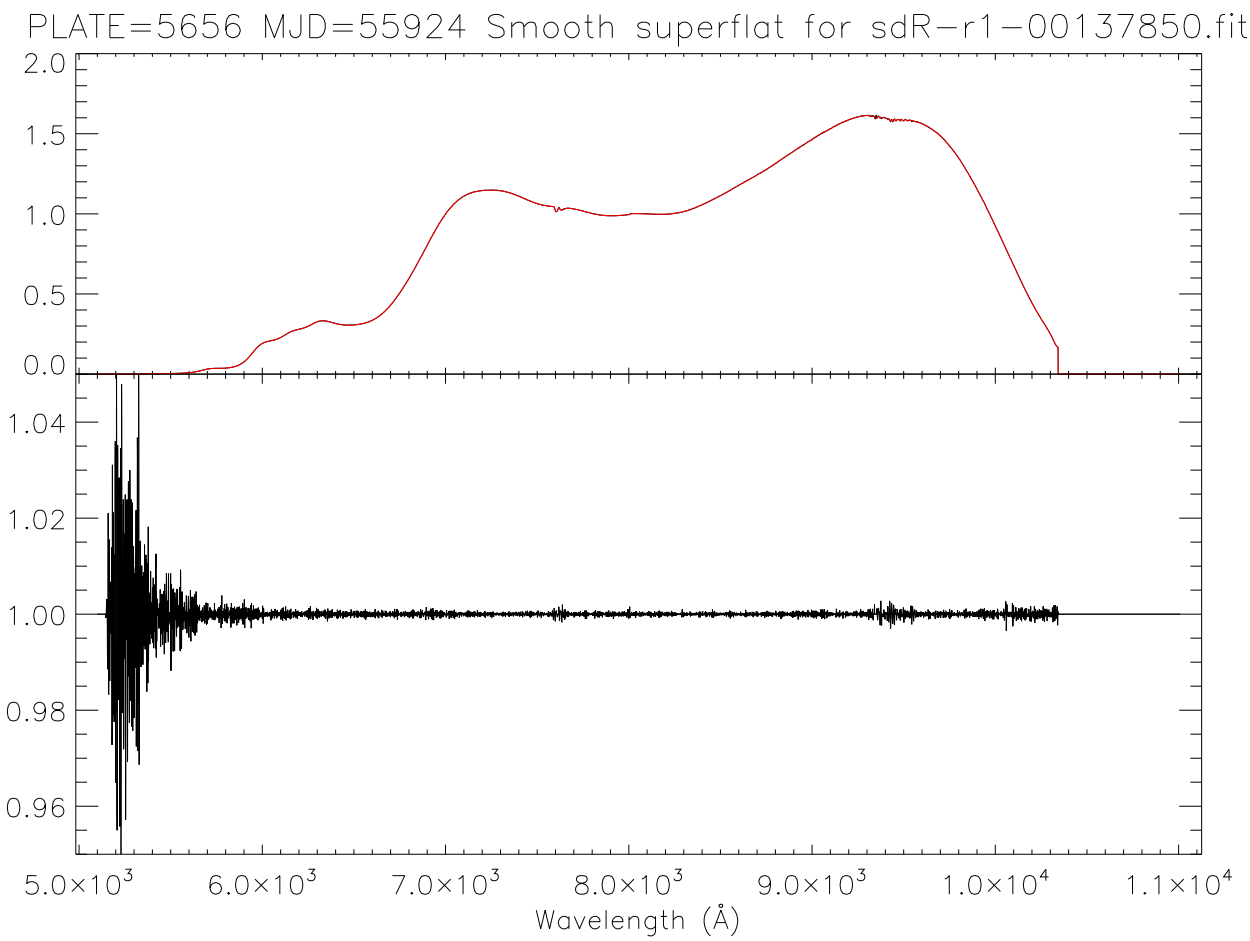

PLATE=5656 MJD=55924 sdR-r1-00137849.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.27 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

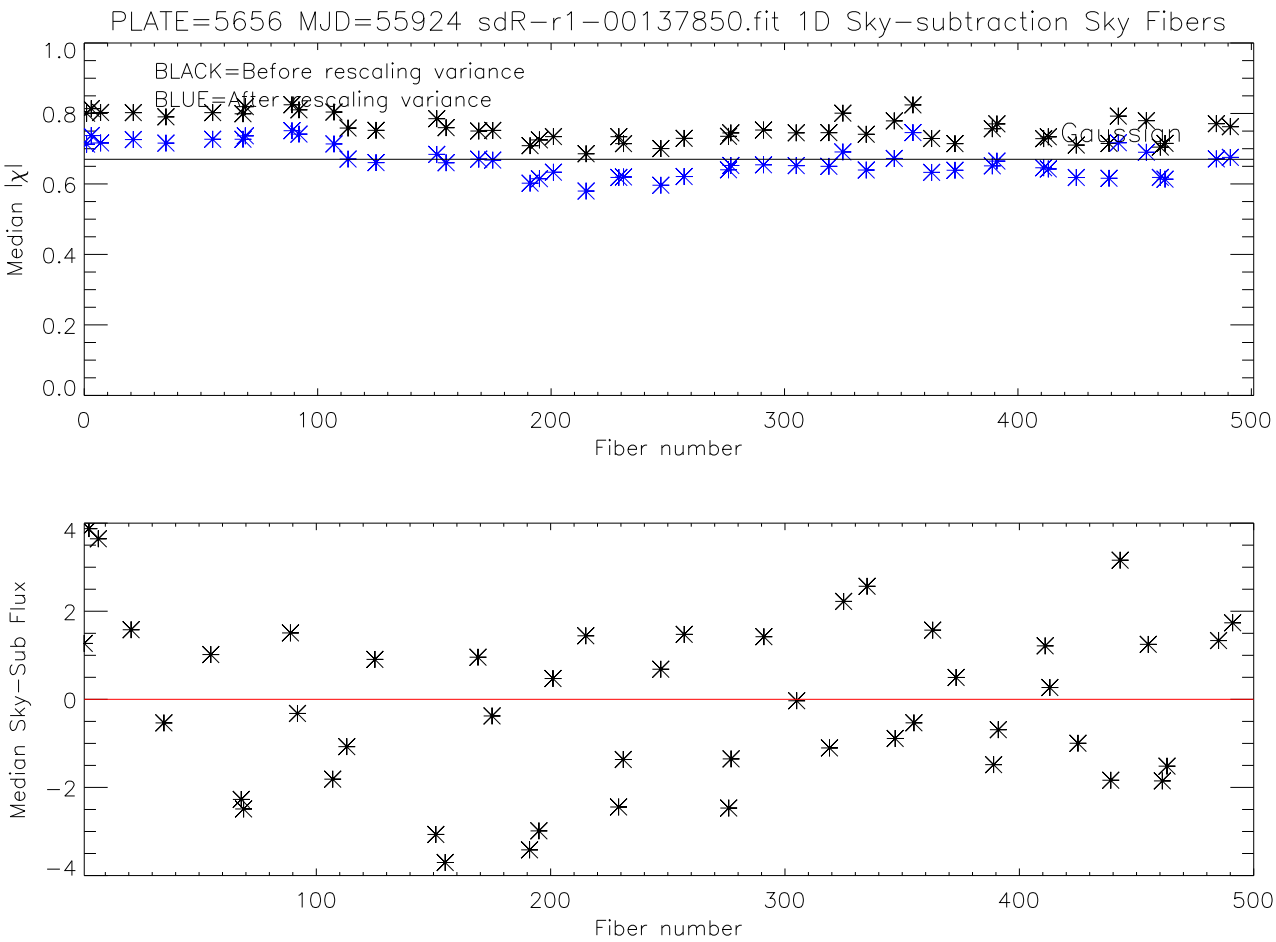

PLATE=5656 MJD=55924 sdR-r1-00137849.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 14.39 %
Focal Distance [mm]
Airmass

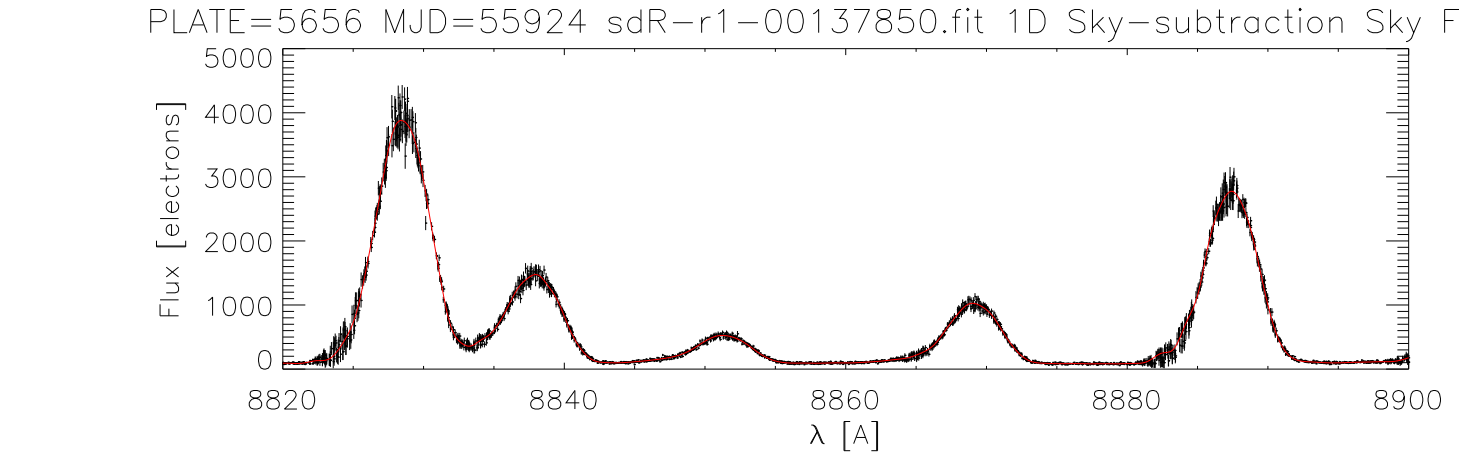

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r1−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −402.272
Max value = 252.080
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Mar 16 23:54:37 2019

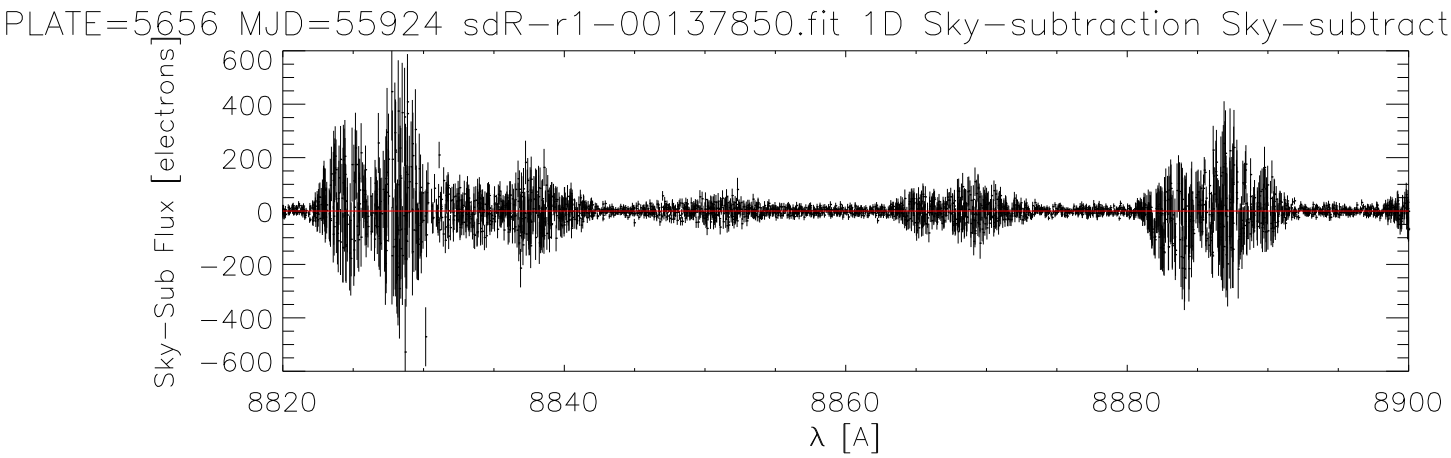

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r1−00137850.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r1-00137850.fit
500
400
300
200
100
0
Fiber Number
1.00 pix
Before shift
After shift
5460557763006363655369236949757177947821839984308885891993759439987 2 ****
Sky Line Wavelength

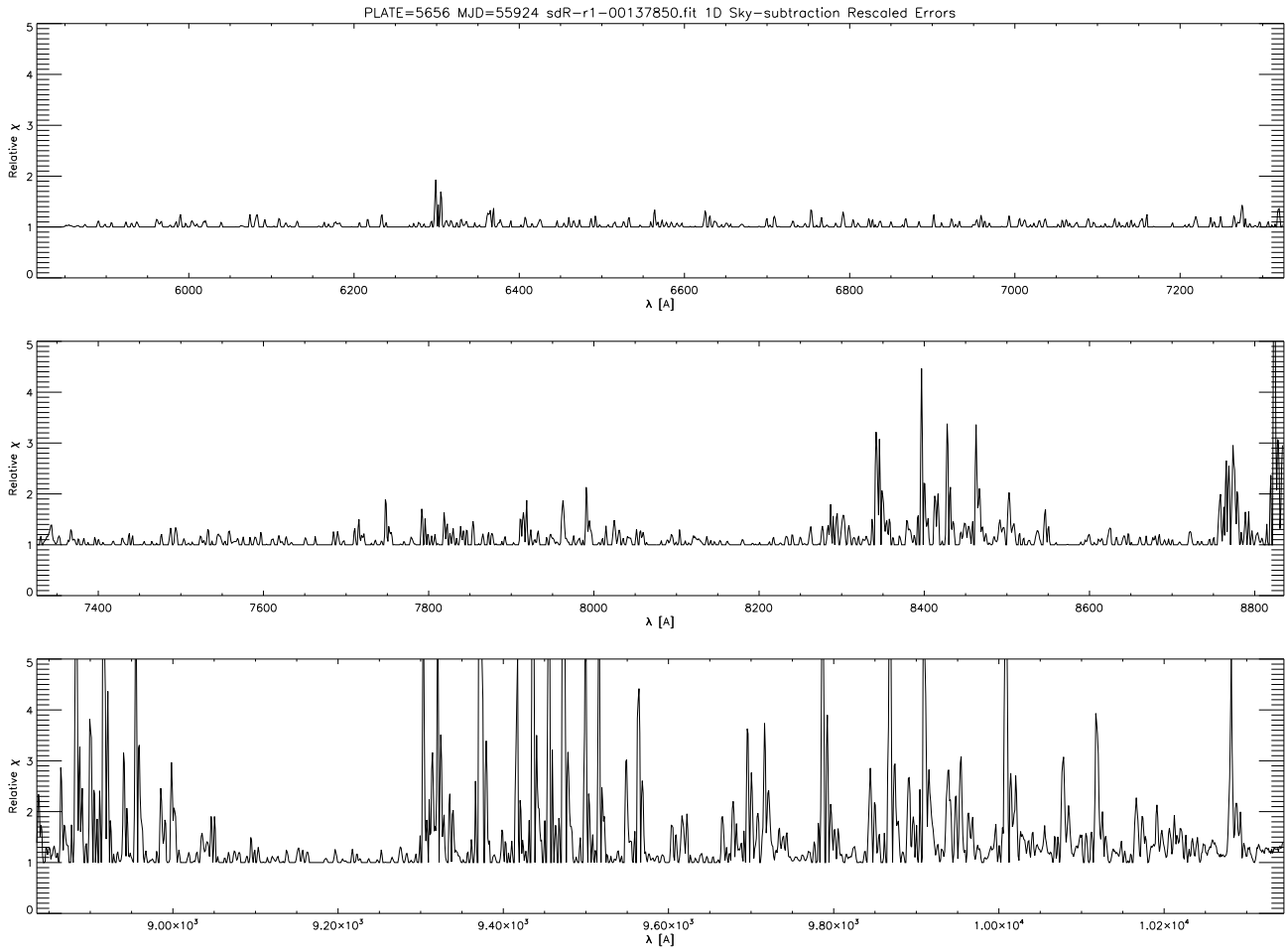

PLATE=5656 MJD=55924 Smooth superflat for sdR-r1-00137850.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

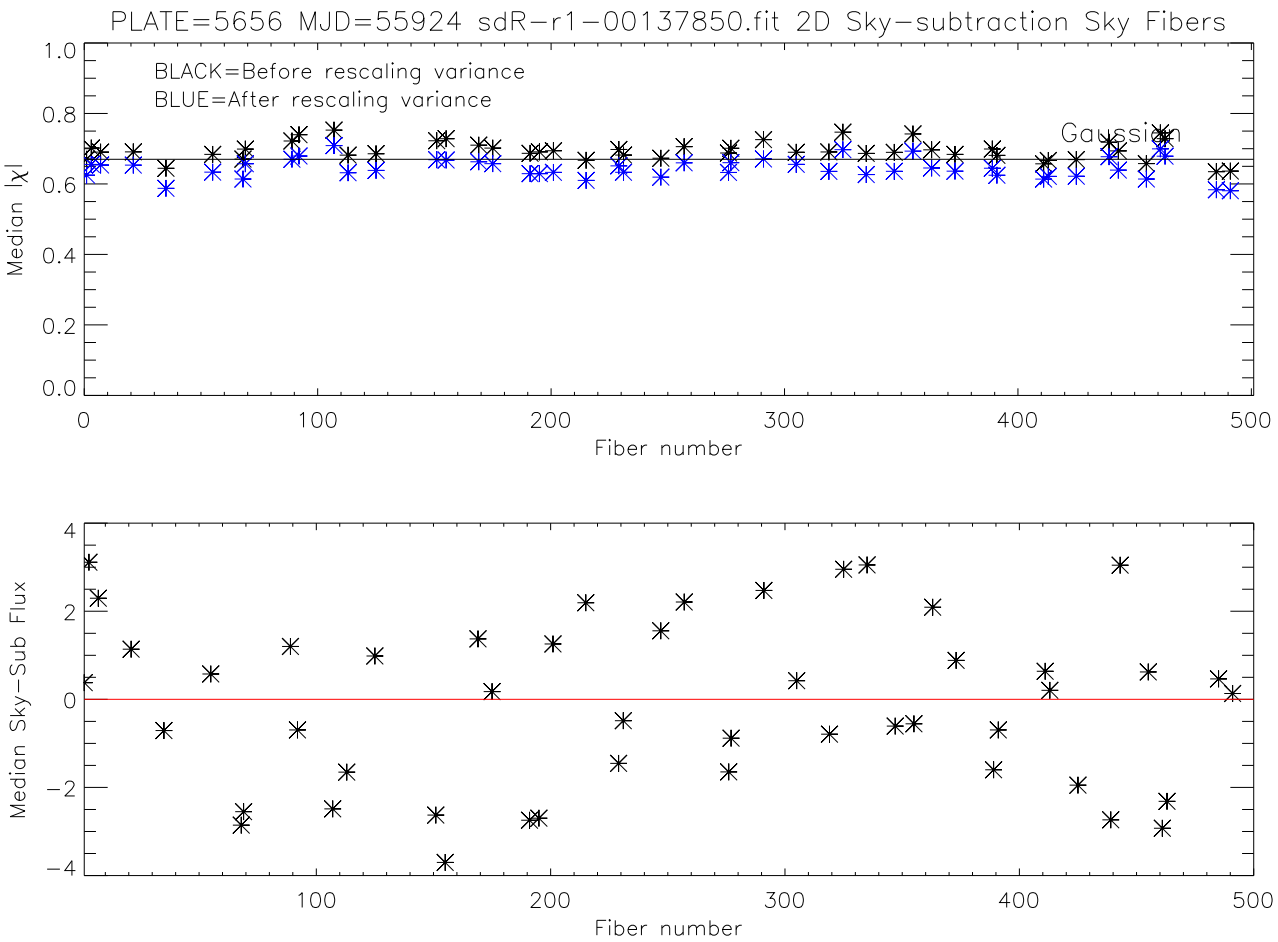

PLATE=5656 MJD=55924 sdR-r1-00137850.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

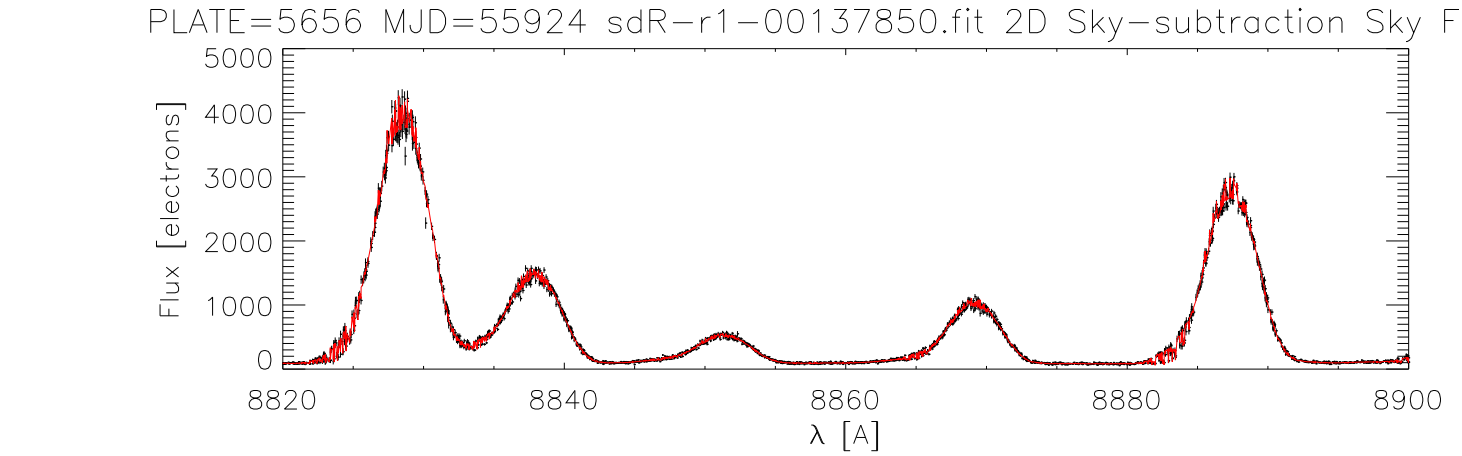

PLATE=5656 MJD=55924 sdR−r1−00137850.fit 1D Sky−subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

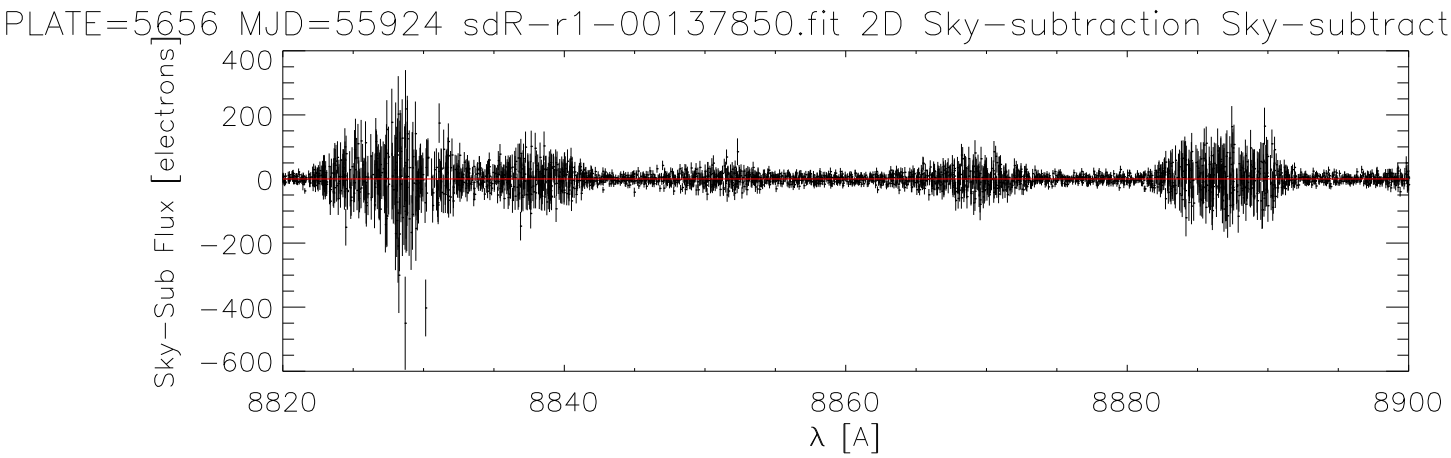

PLATE=5656 MJD=55924 sdR−r1−00137850.fit 1D Sky−subtraction Sky−subtracted Sky F
Sky−Sub Flux [electrons]
600
400
200
0
−200
−400
−600
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

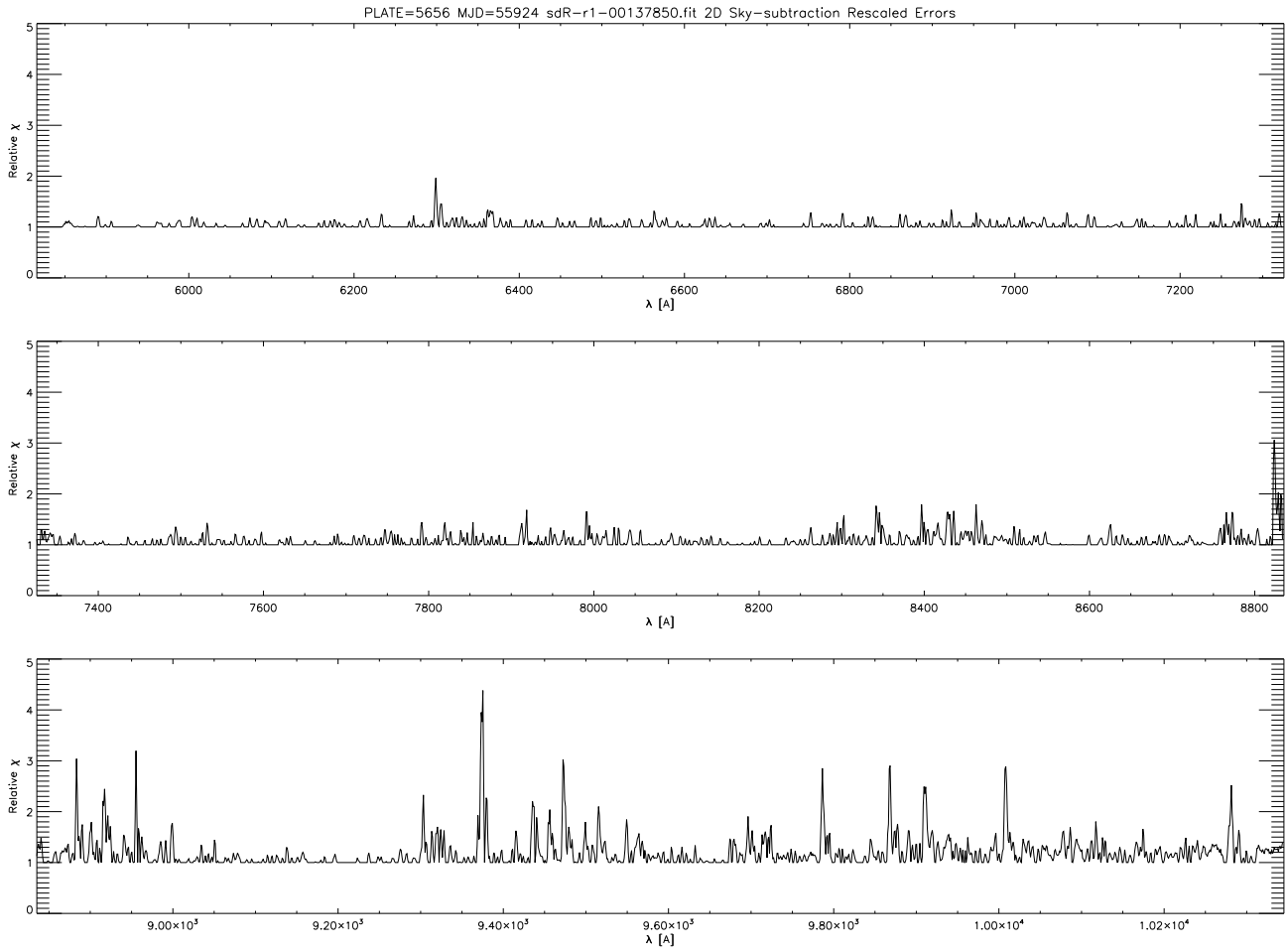


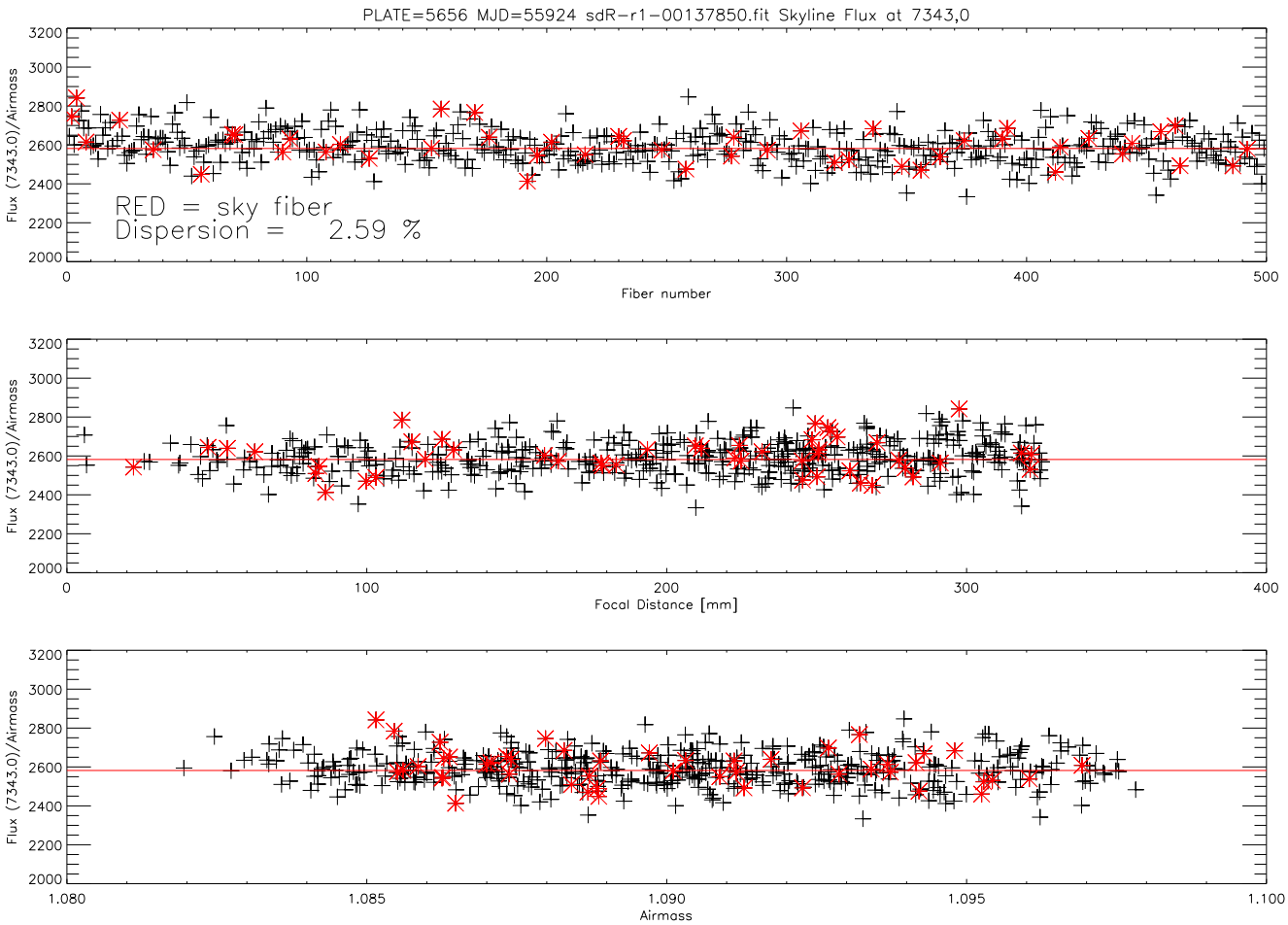

PLATE=5656 MJD=55924 sdR-r1-00137850.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

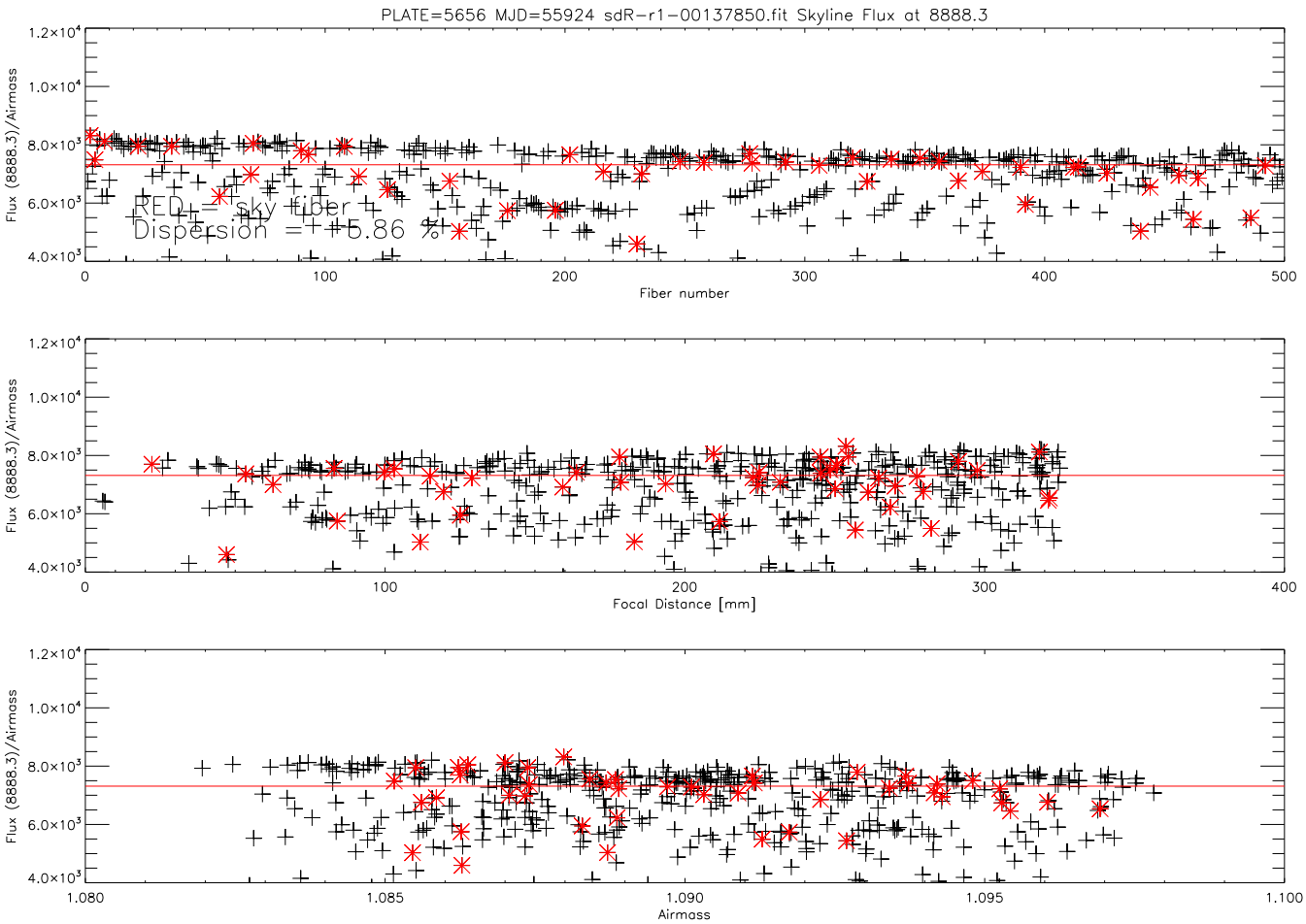

PLATE=5656 MJD=55924 sdR-r1-00137850.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

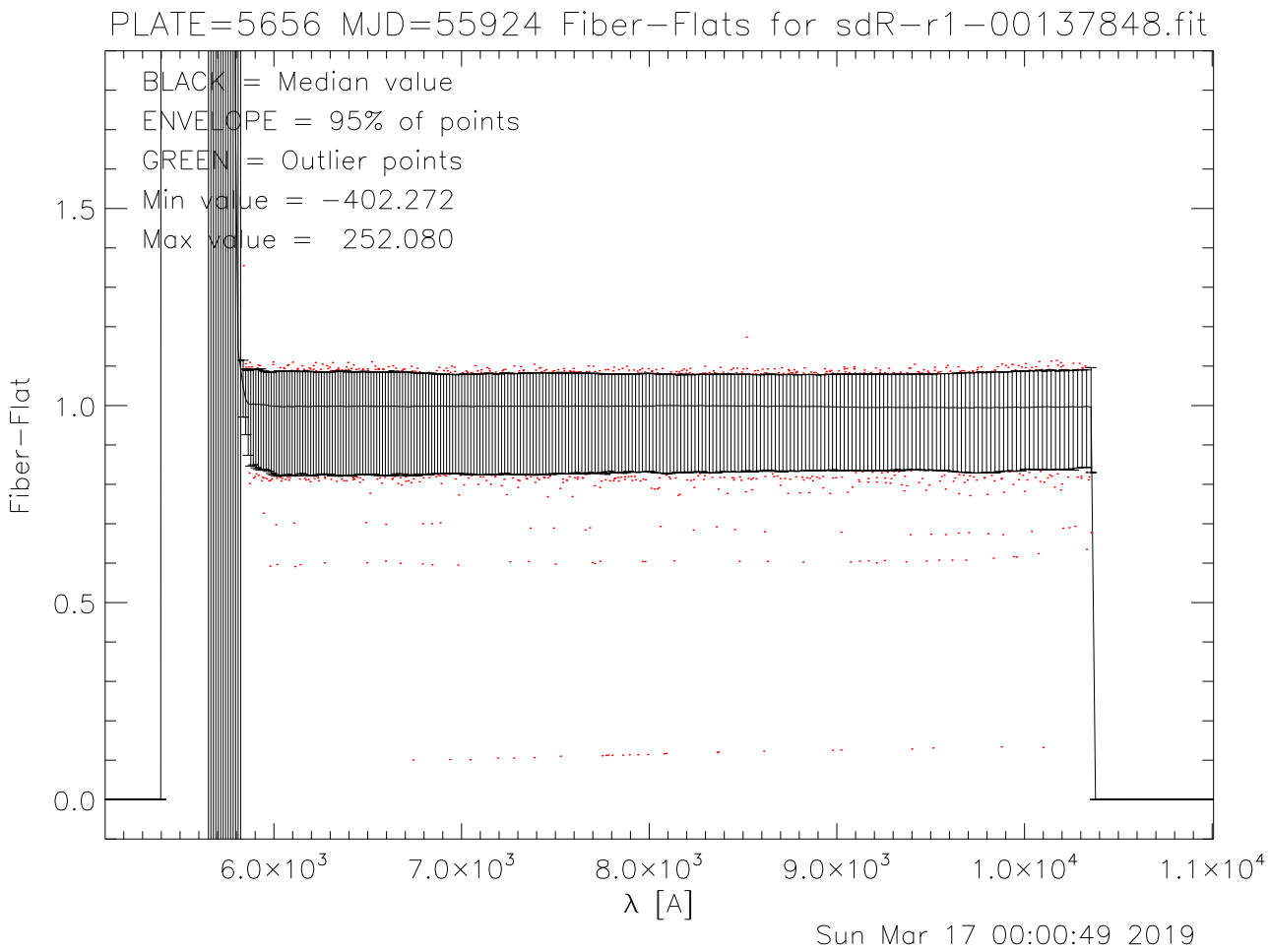

PLATE=5656 MJD=55924 sdR-r1-00137850.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

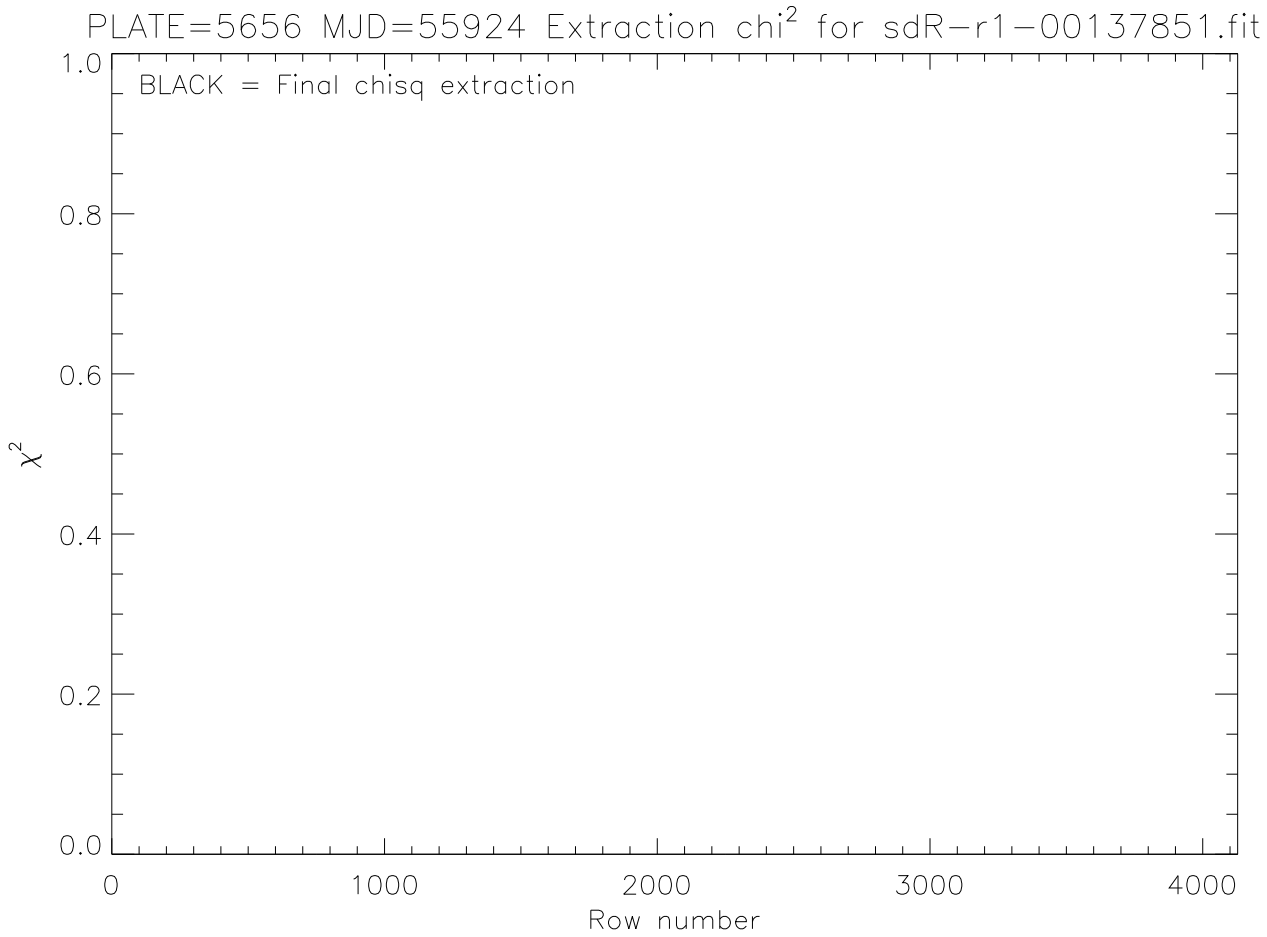
Number of sky fibers = 48

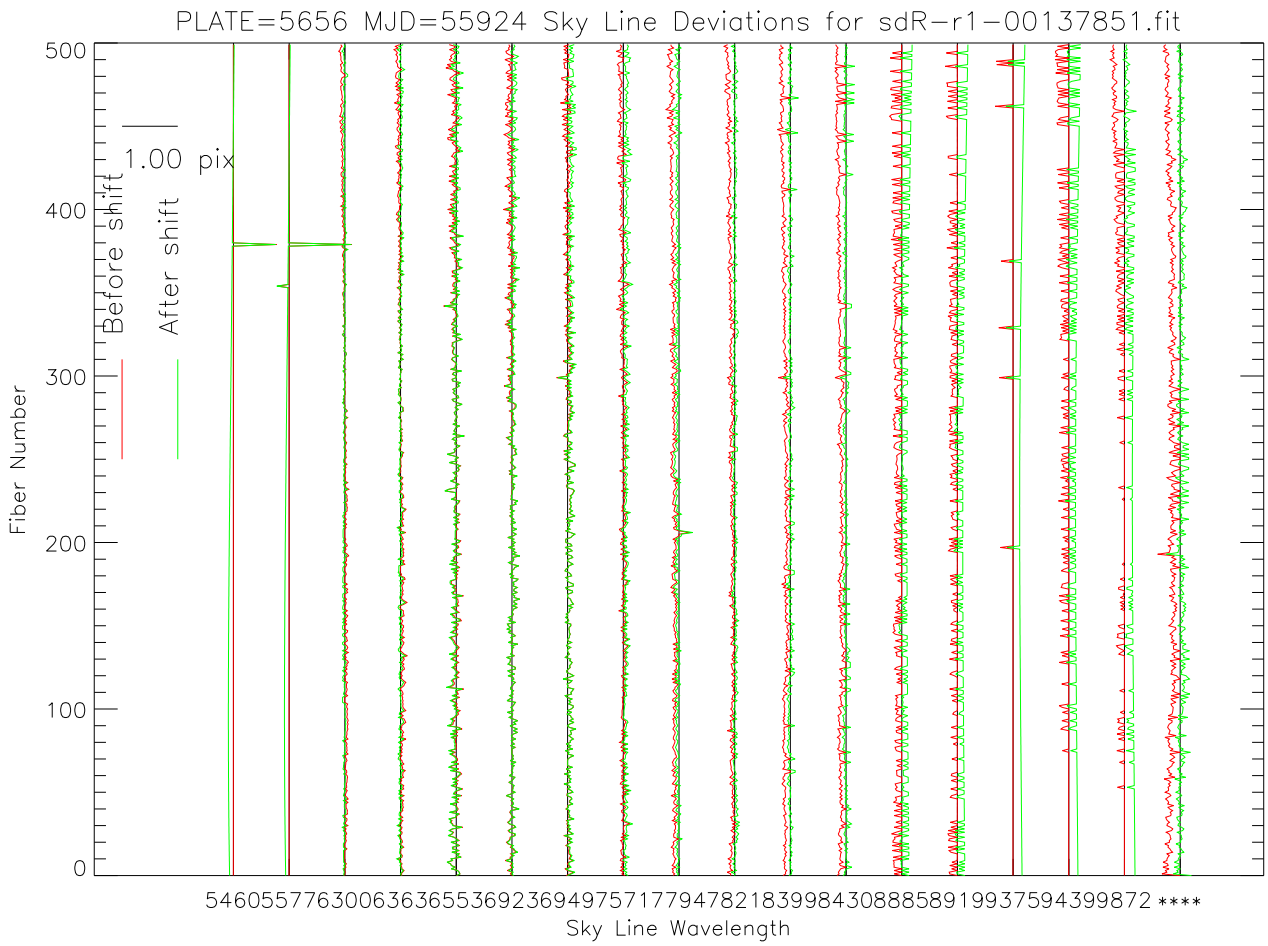


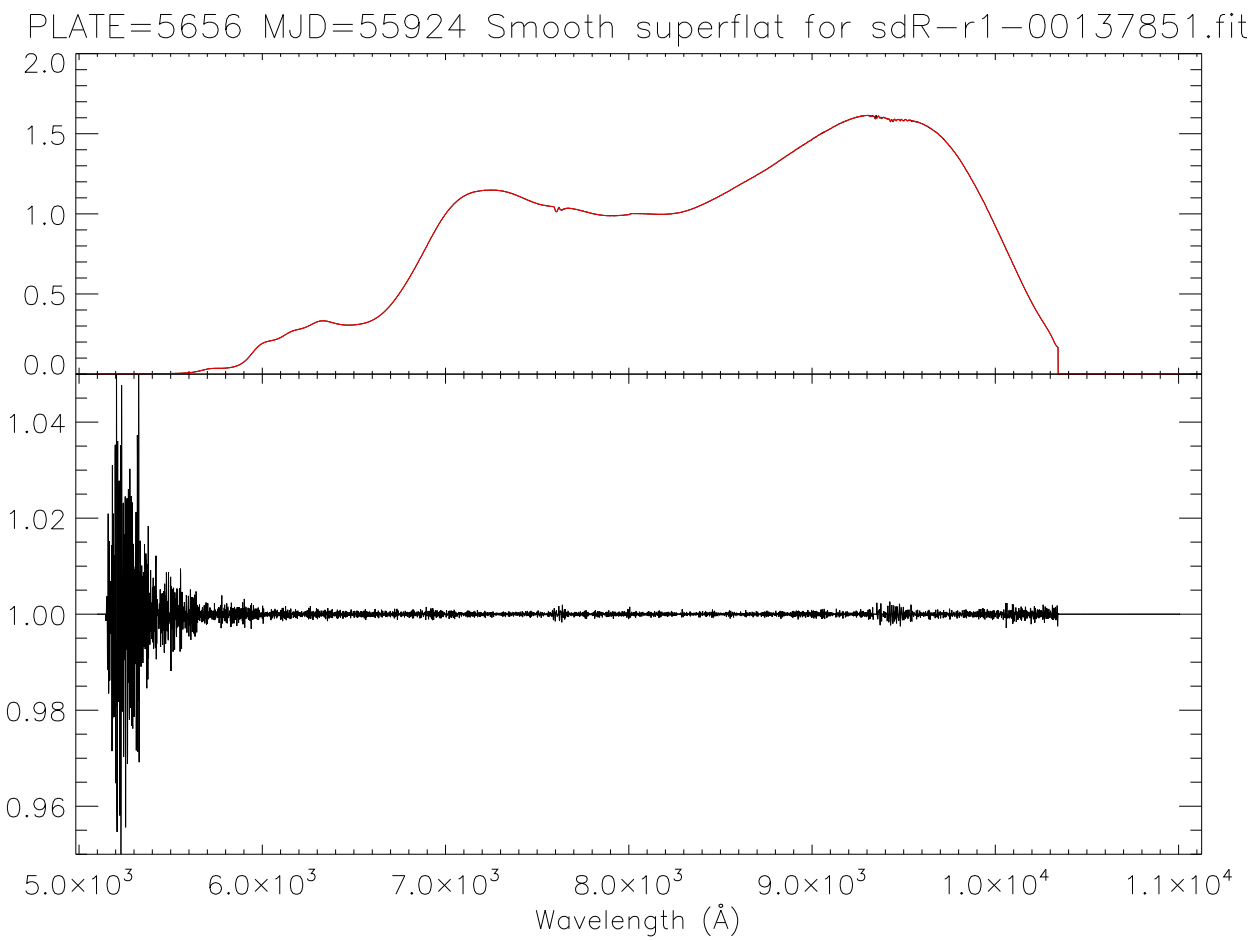

PLATE=5656 MJD=55924 sdR-r1-00137850.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.59 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

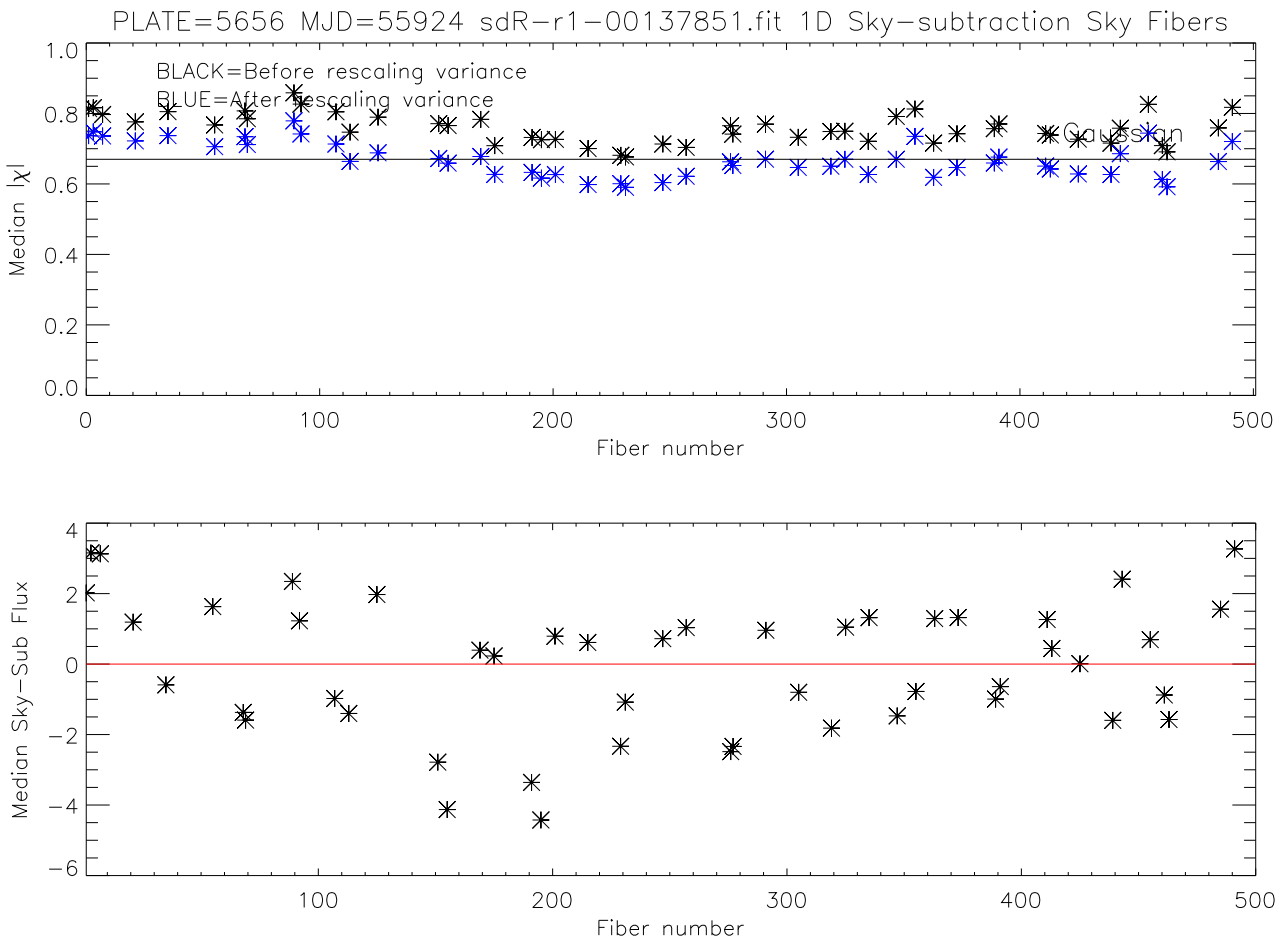

PLATE=5656 MJD=55924 sdR-r1-00137850.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = +-5.86 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

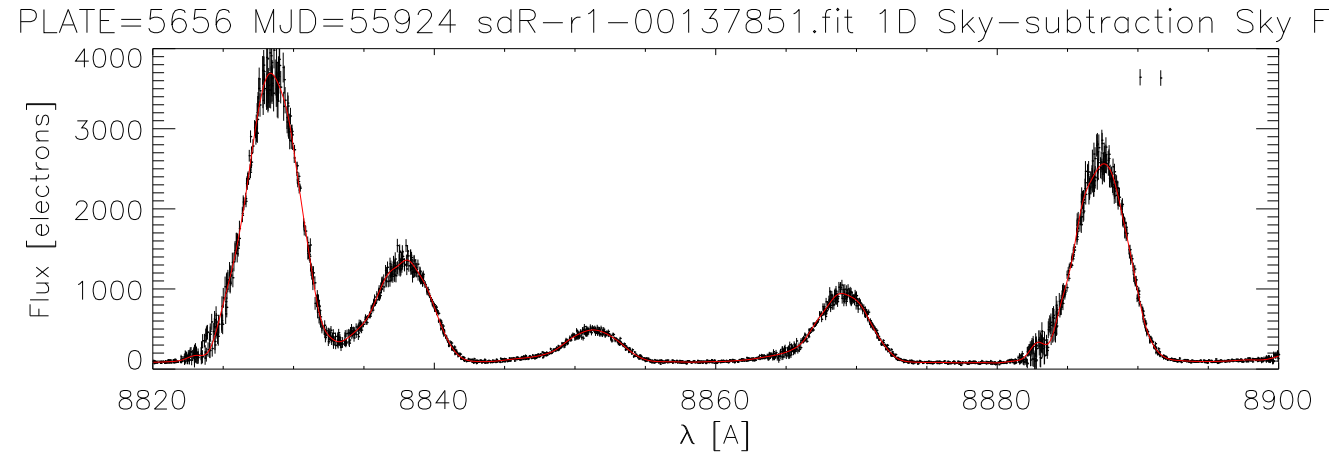

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r1−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −402.272
Max value = 252.080
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:00:49 2019

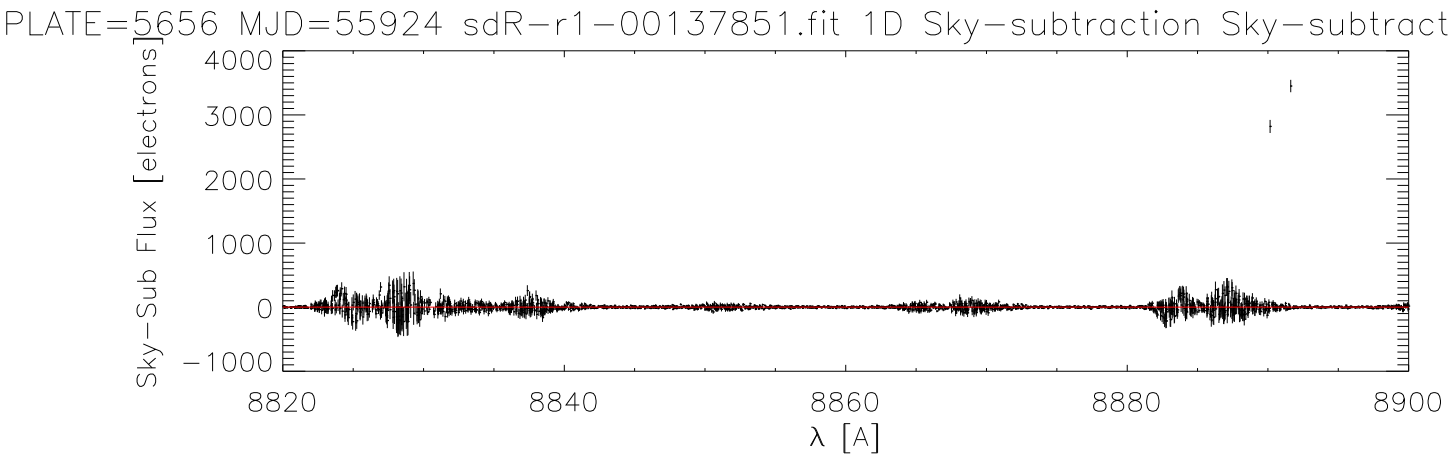

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r1−00137851.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r1-00137851.fit
500
400
300
200
100
0
Fiber Number
1.00 pix
Before shift
After shift
5460557763006363655369236949757177947821839984308885891993759439987 2 ****
Sky Line Wavelength

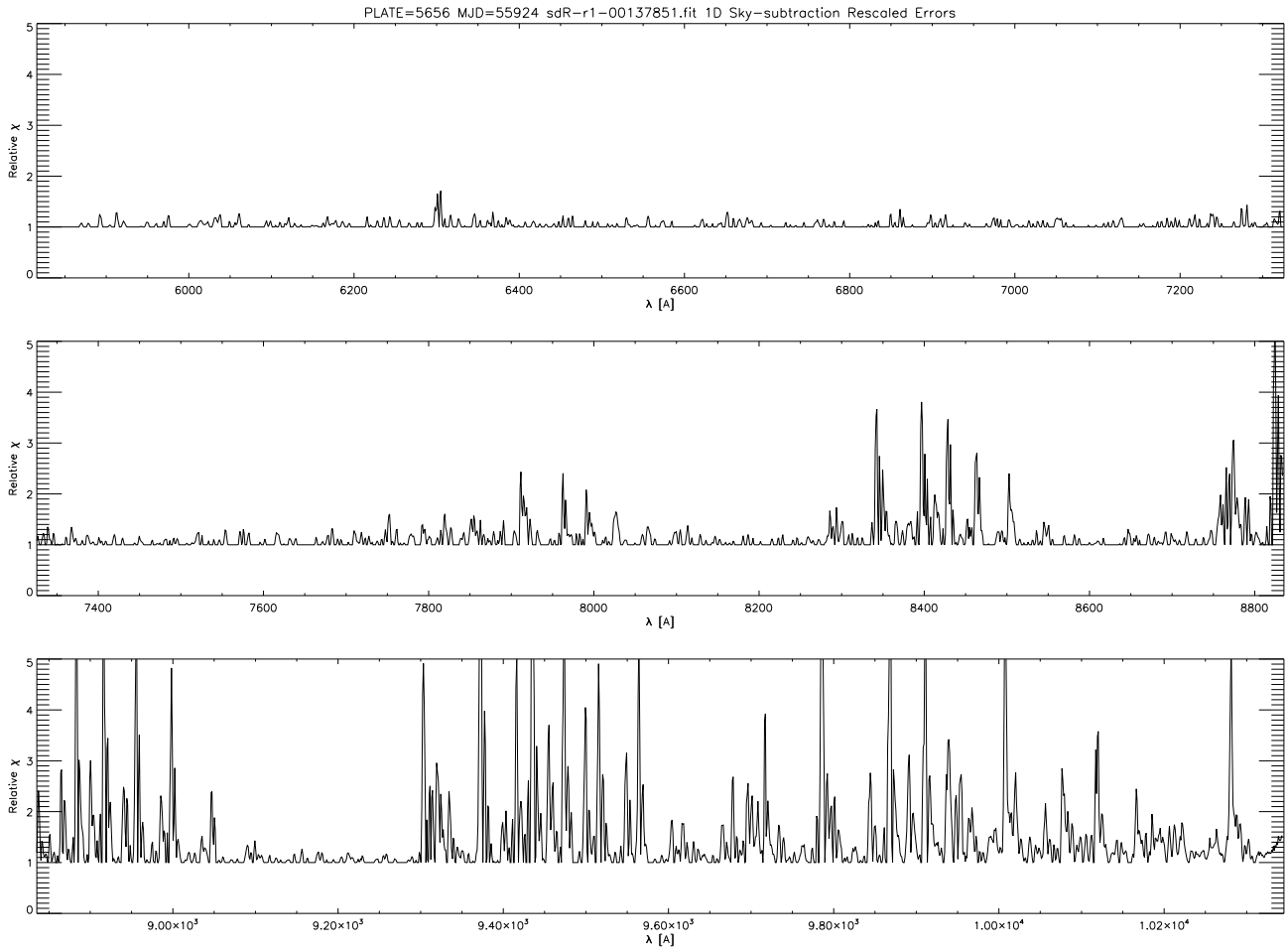

PLATE=5656 MJD=55924 Smooth superflat for sdR-r1-00137851.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

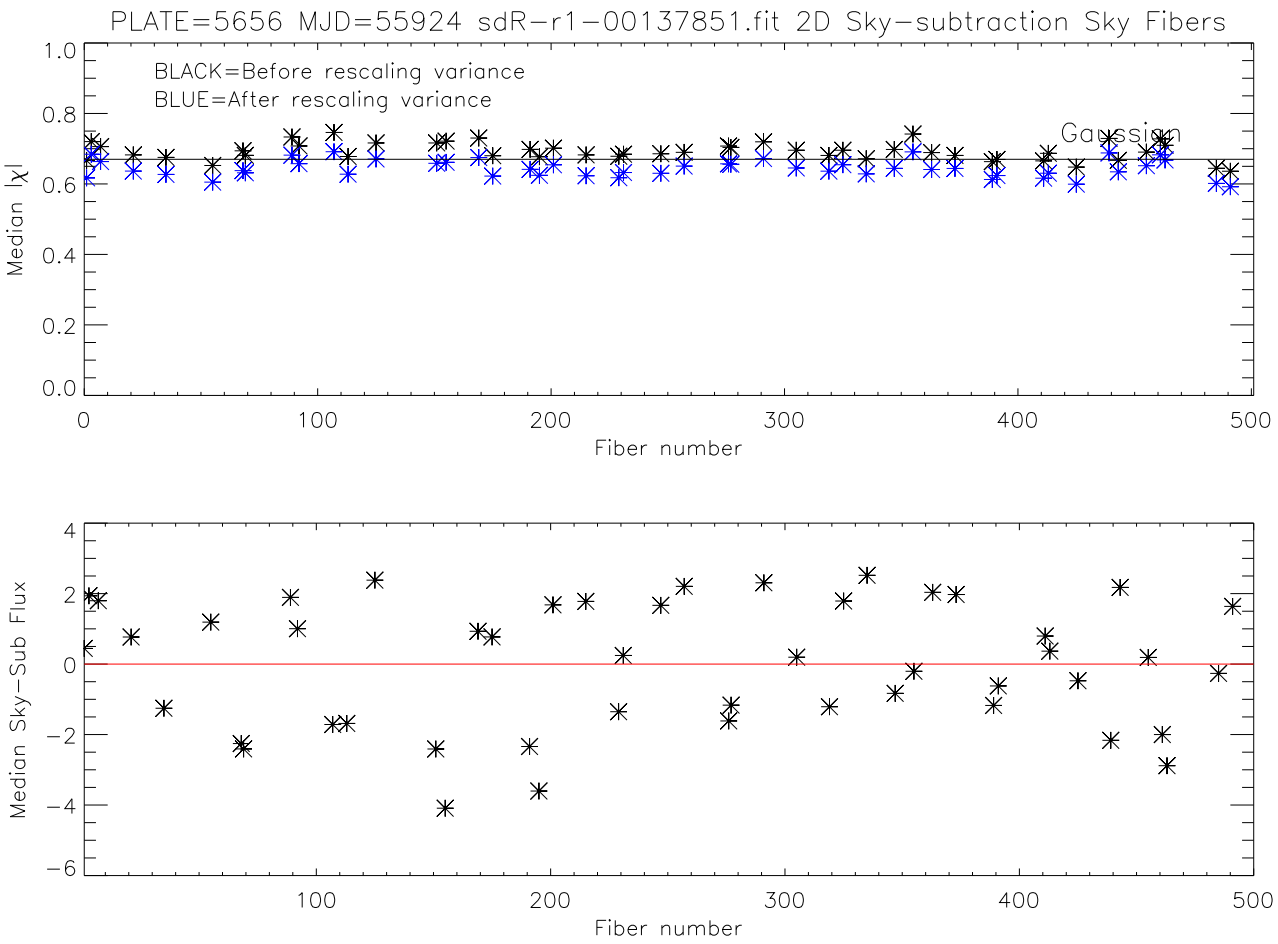

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

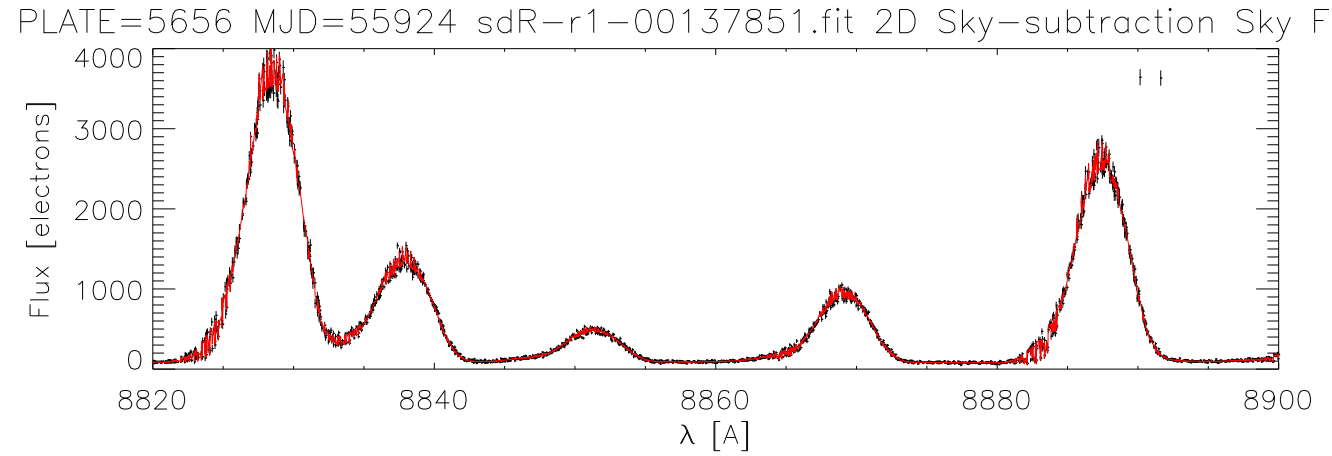

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

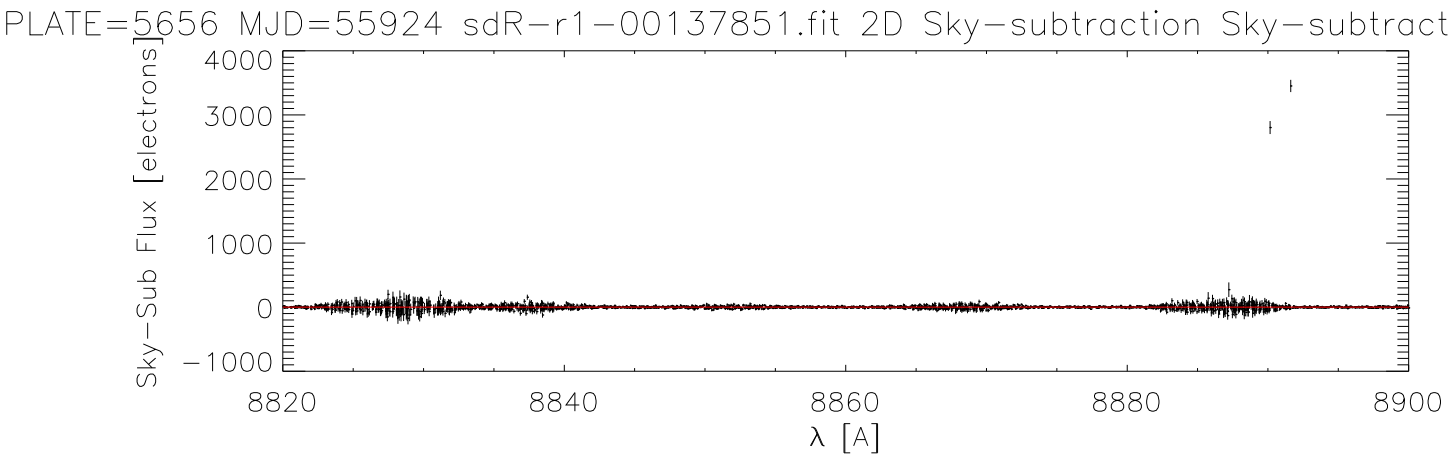

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

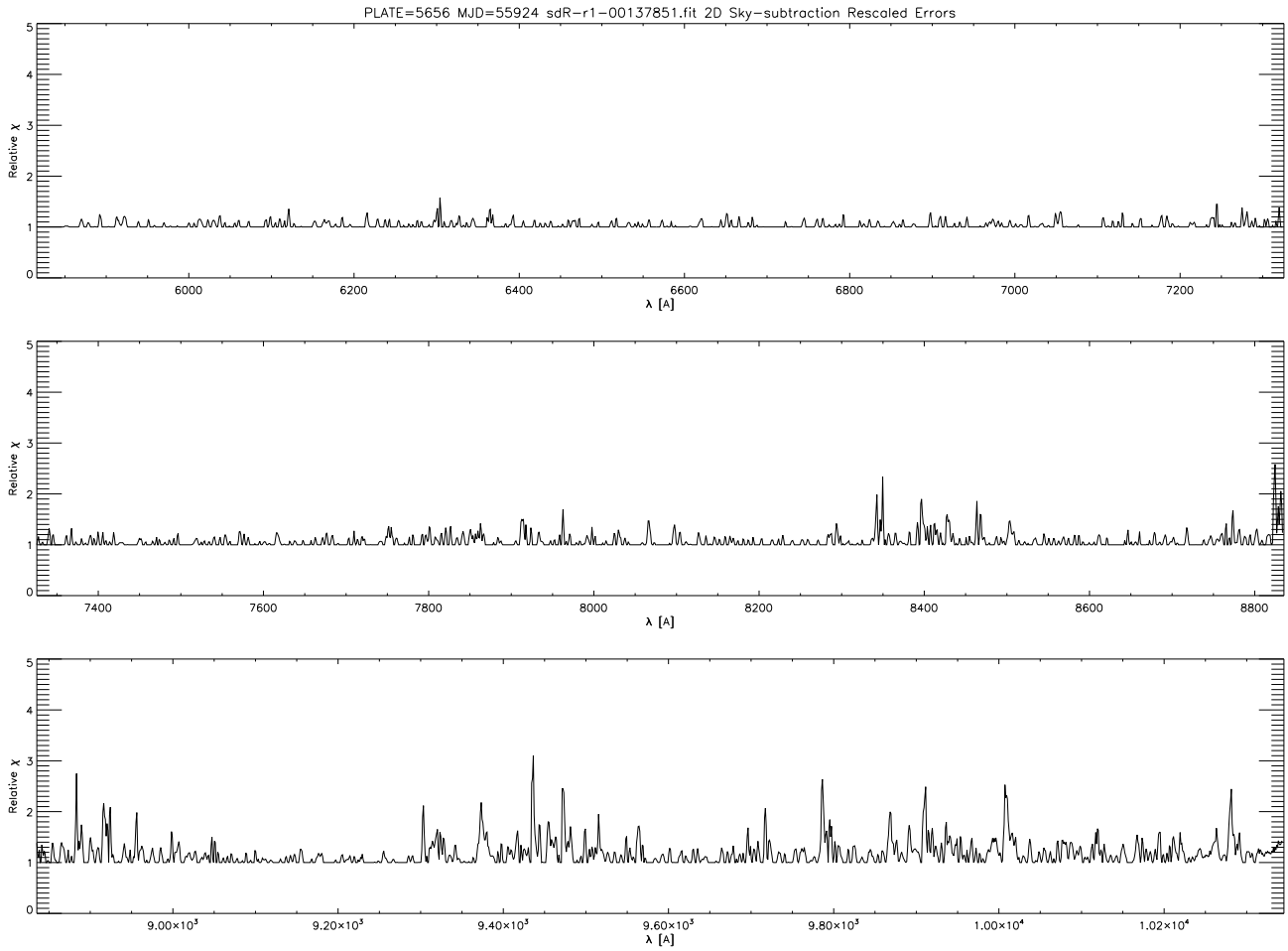


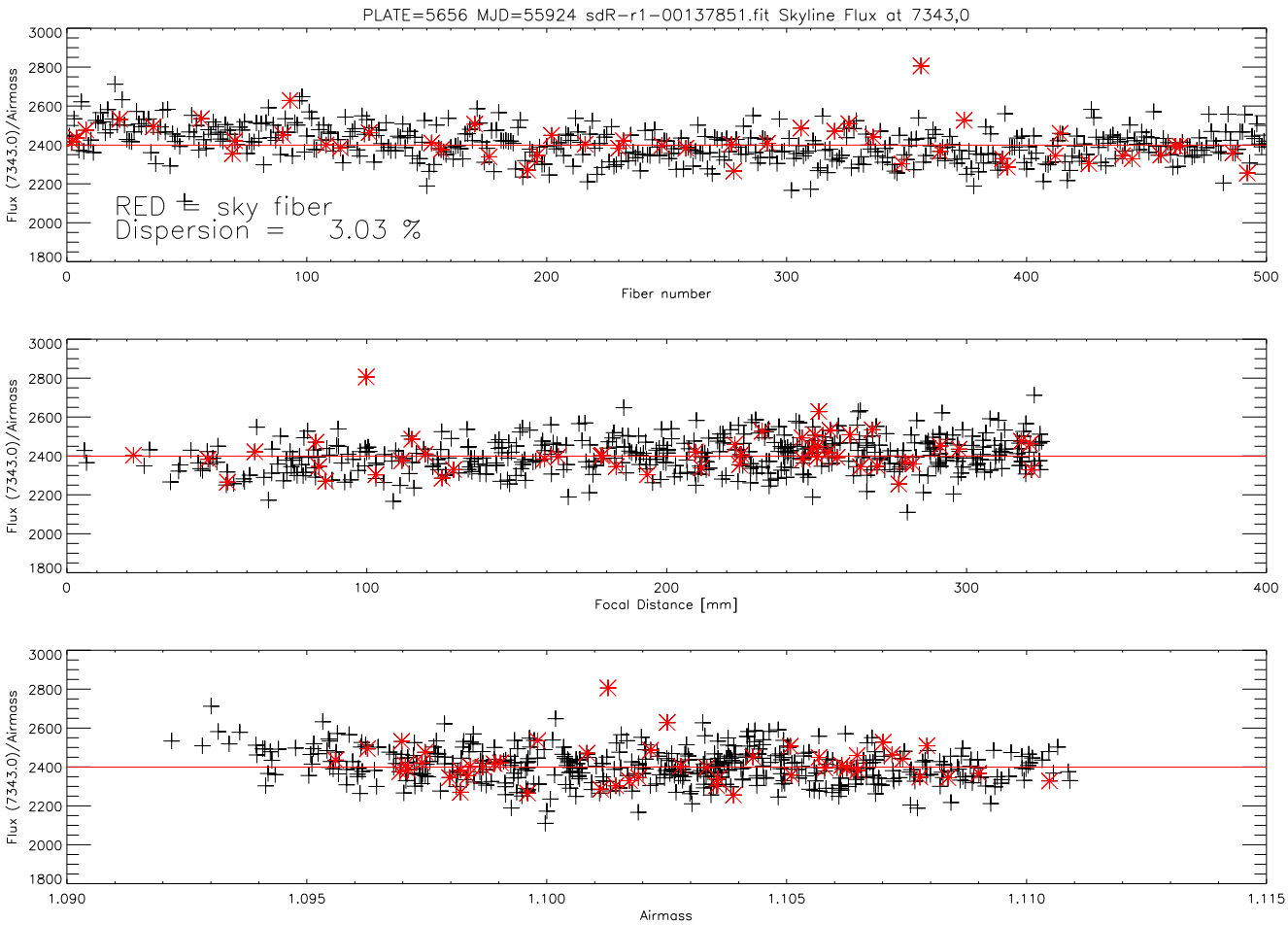

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

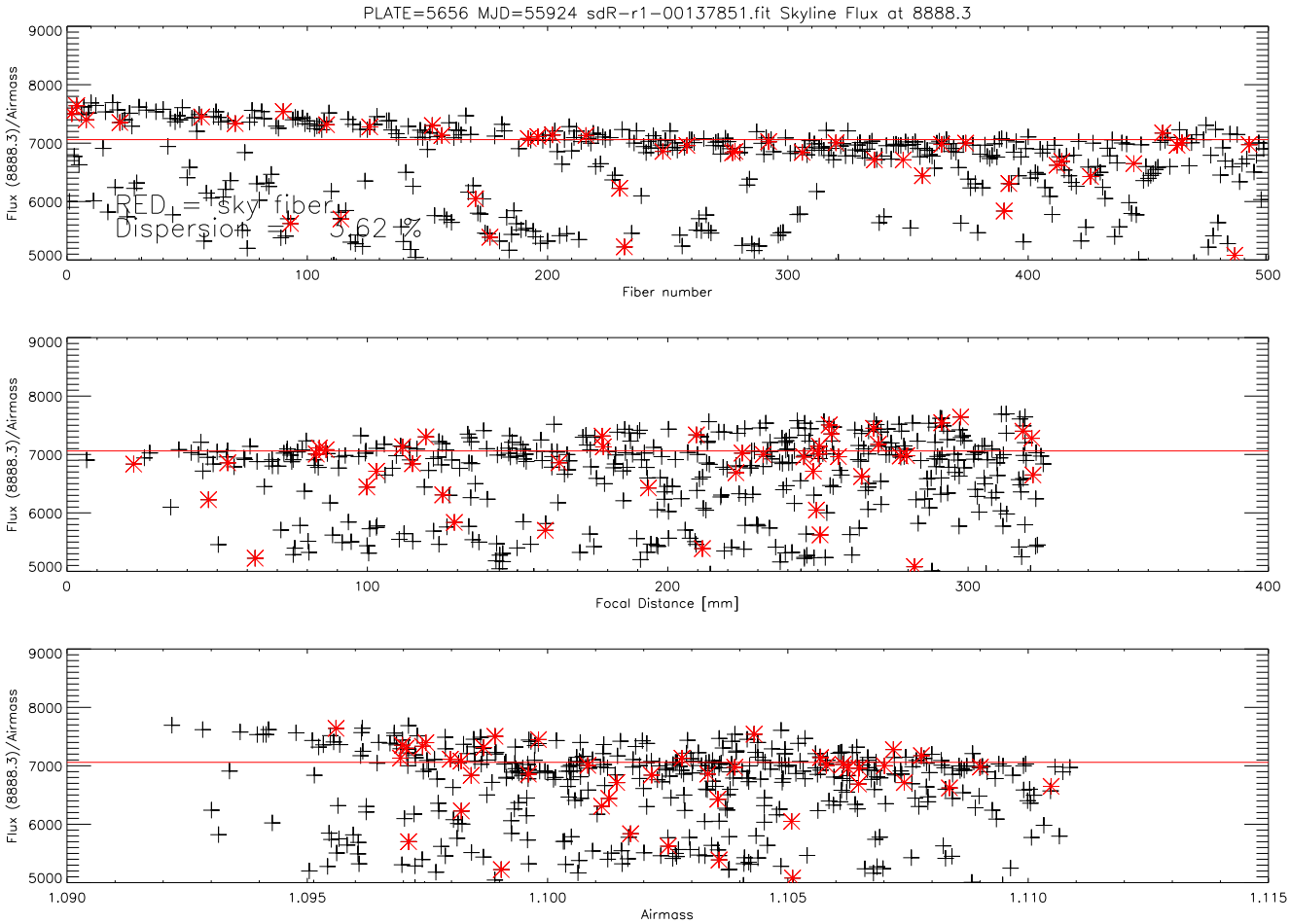

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

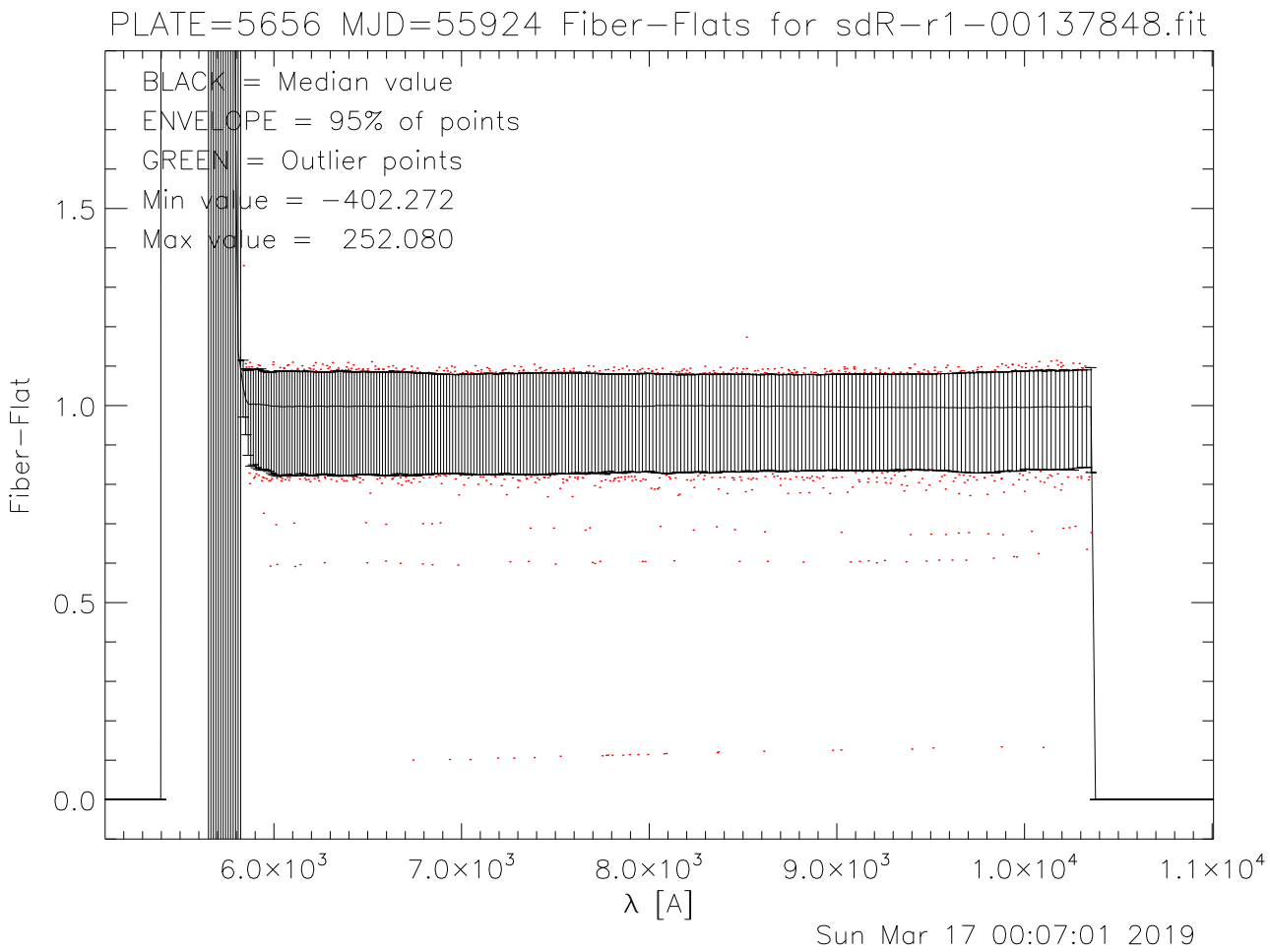

PLATE=5656 MJD=55924 sdR-r1-00137851.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

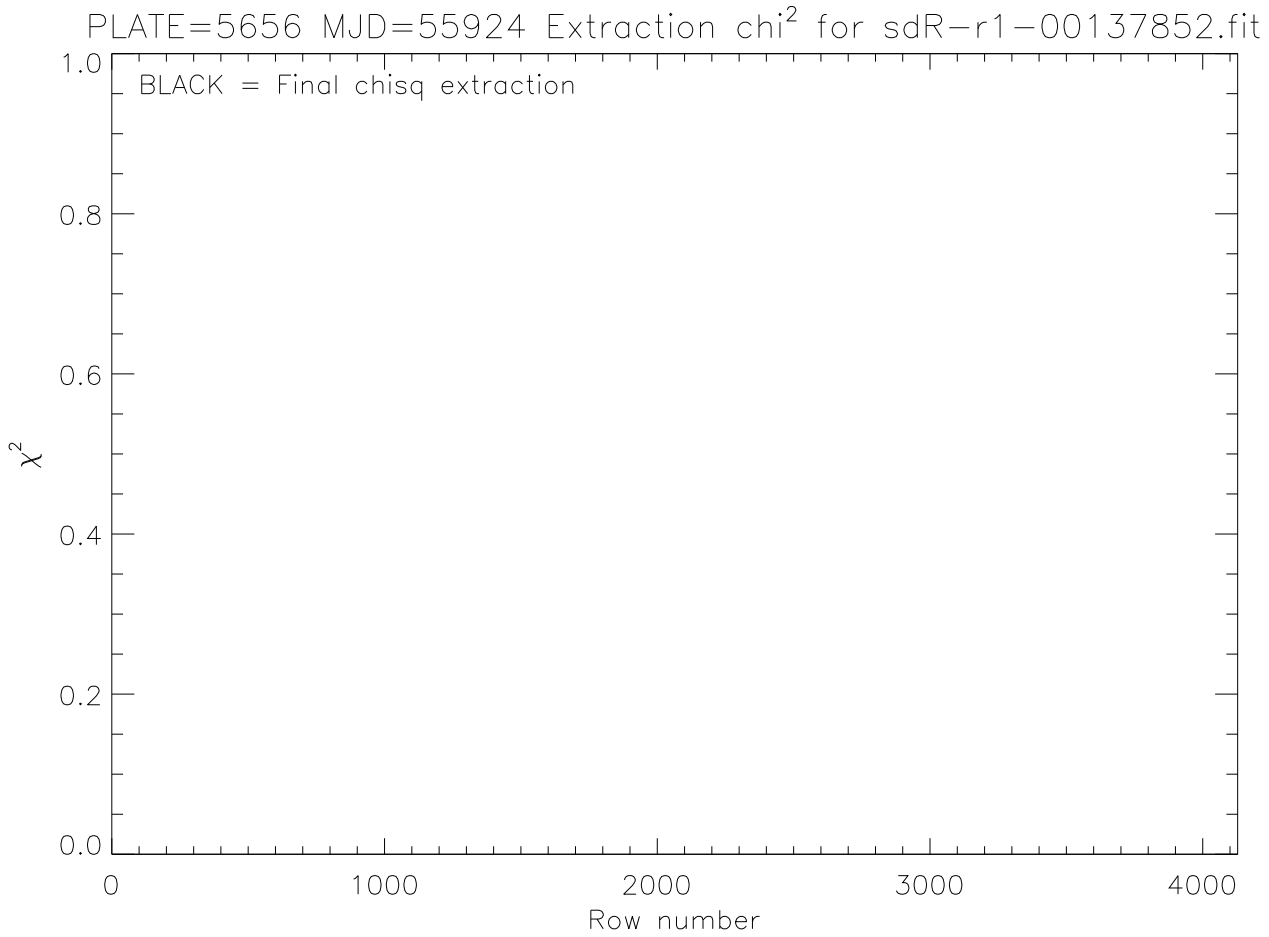
Number of sky fibers = 48

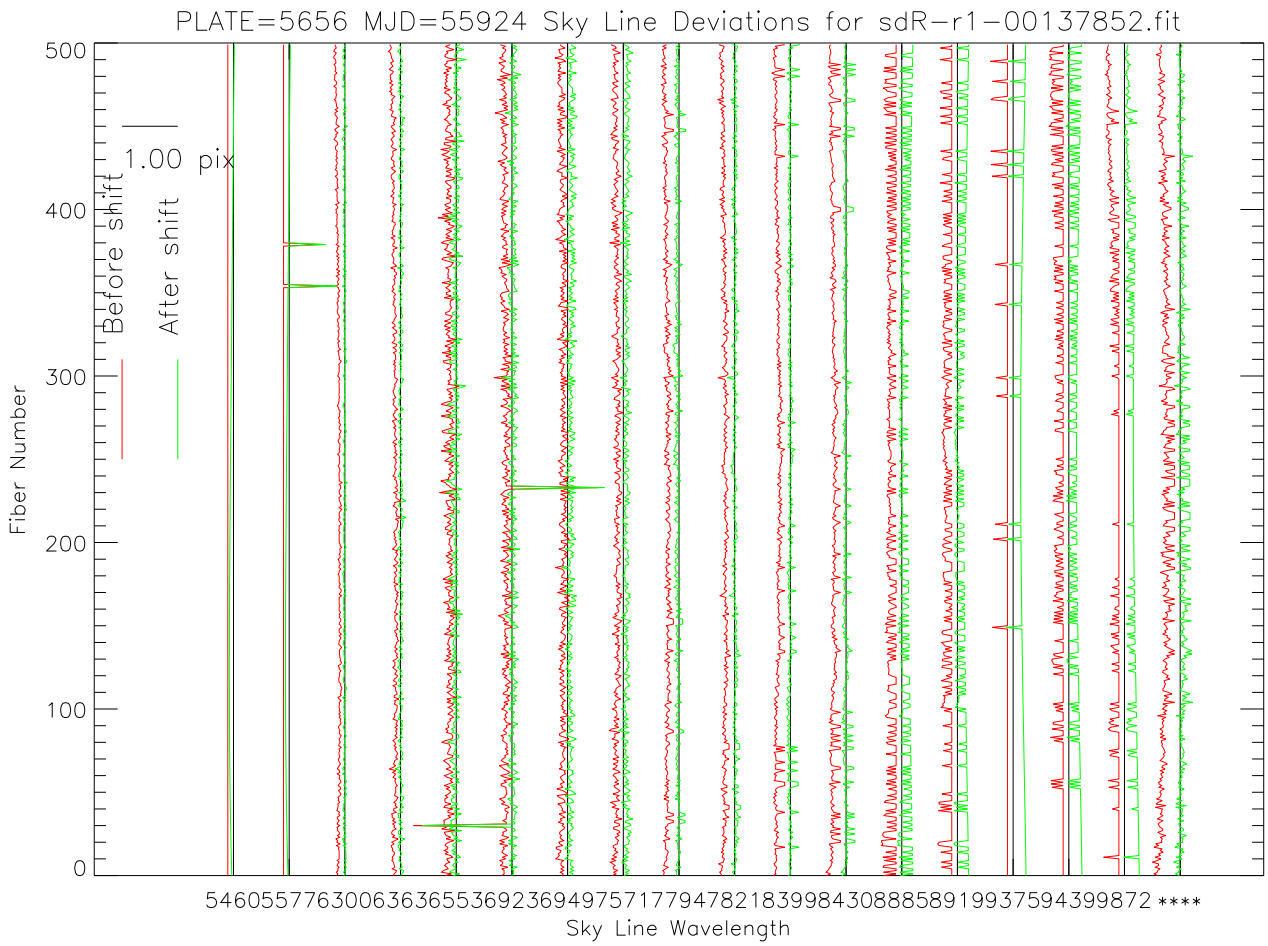


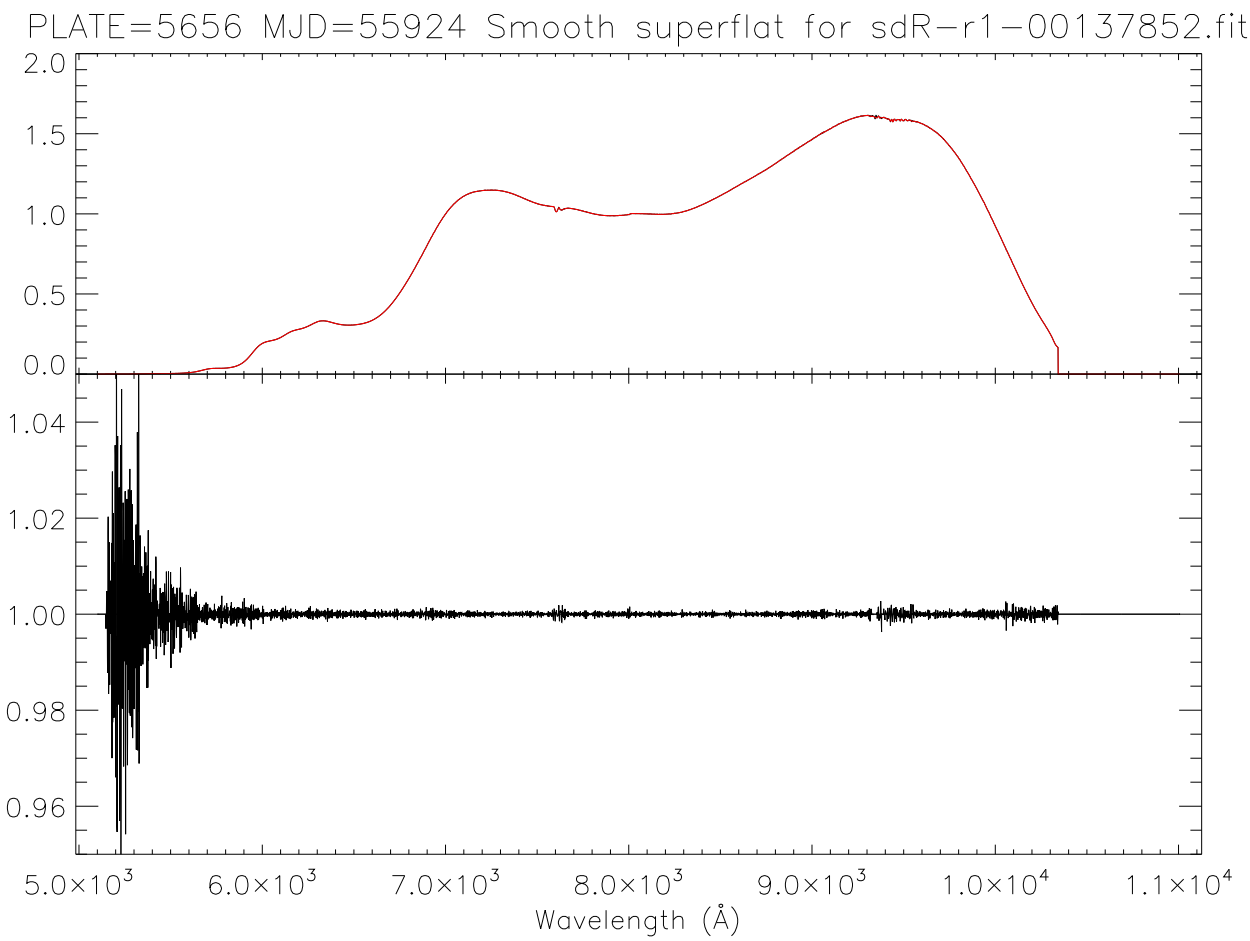

PLATE=5656 MJD=55924 sdR-r1-00137851.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.03 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

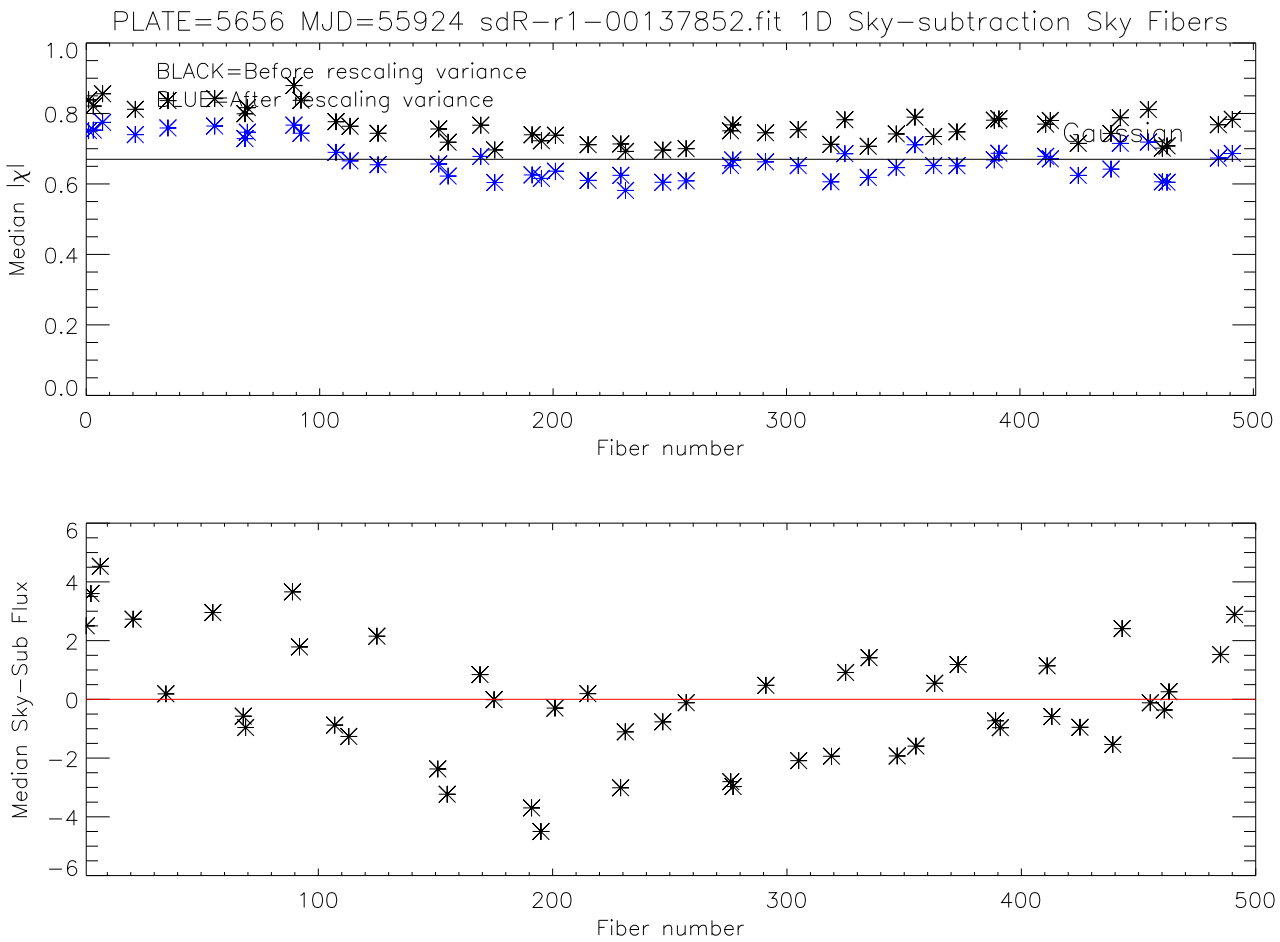

PLATE=5656 MJD=55924 sdR-r1-00137851.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = "sky" fiber
Dispersion = 3.62 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=5656 MJD=55924 Fiber−Flats for sdR−r1−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −402.272
Max value = 252.080
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]
Sun Mar 17 00:07:01 2019

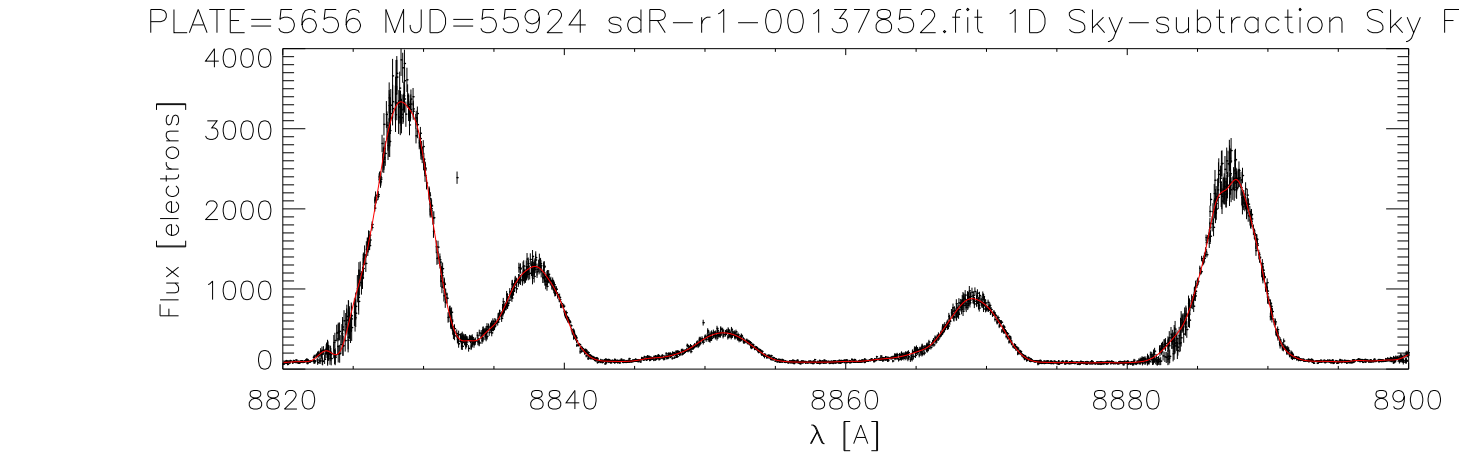

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r1−00137852.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

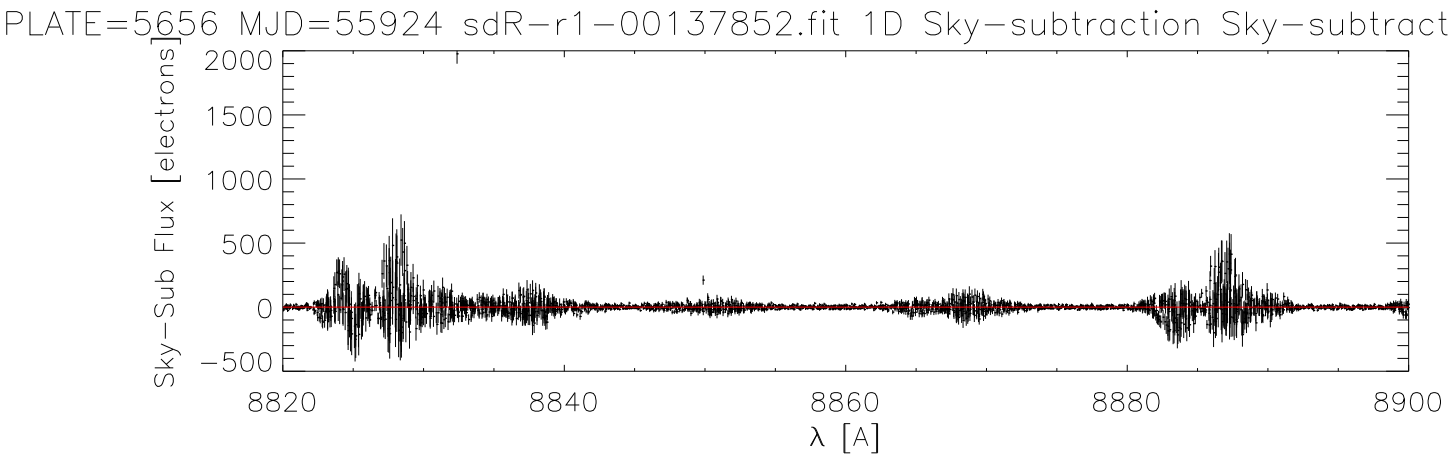

PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r1-00137852.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
5460557763006363655369236949757177947821839984308885891993759439987 2 ****
Sky Line Wavelength


PLATE=5656 MJD=55924 Smooth superflat for sdR-r1-00137852.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)

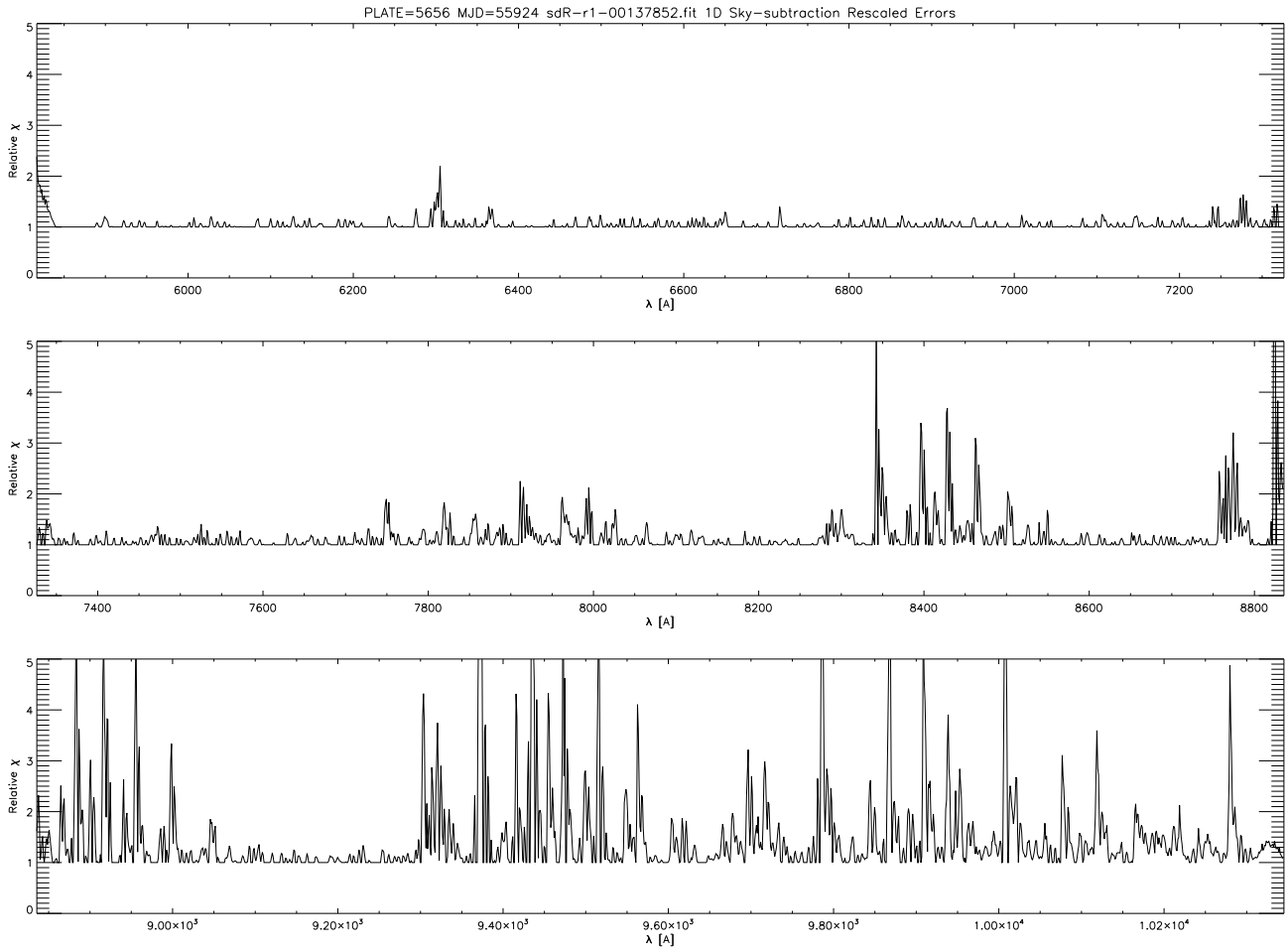

PLATE=5656 MJD=55924 sdR-r1-00137852.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

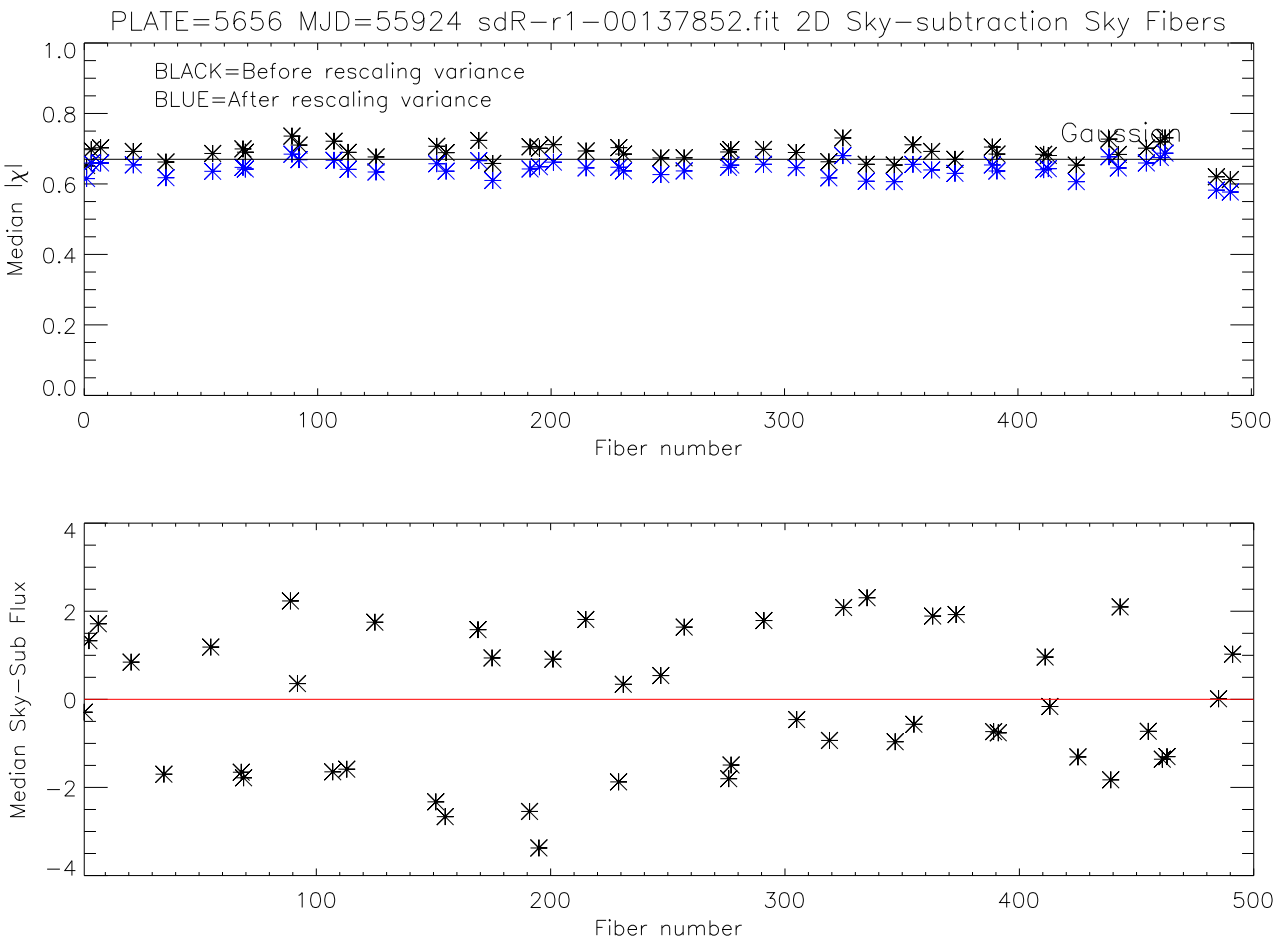
Median Sky-Sub Flux
Fiber number
6
4
2
0
−2
−4
−6
100
200
300
400
500

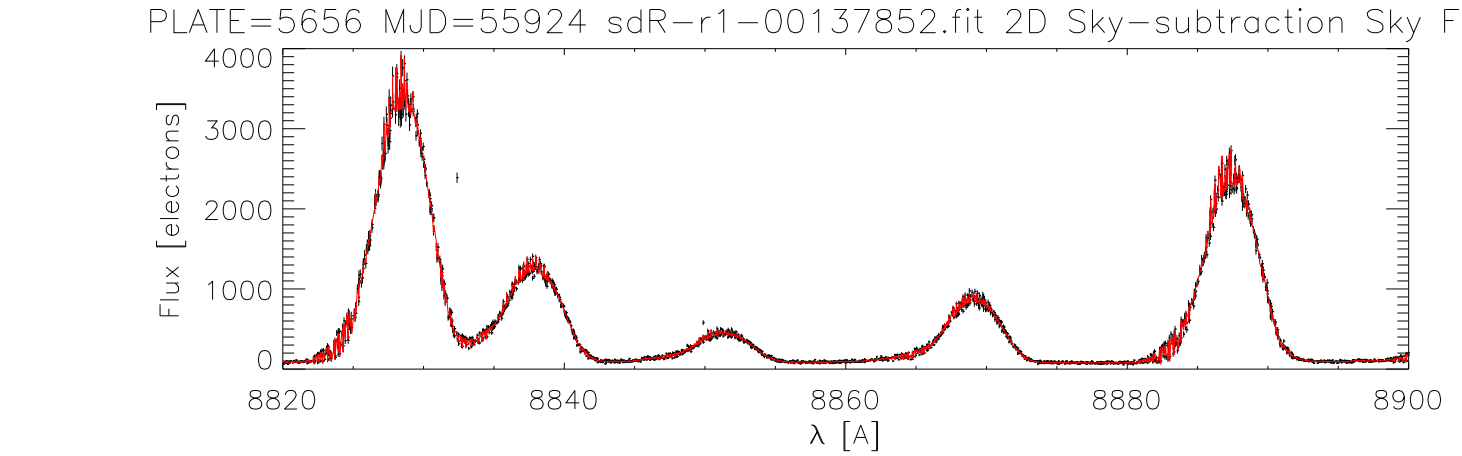

PLATE=5656 MJD=55924 sdR-r1-00137852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

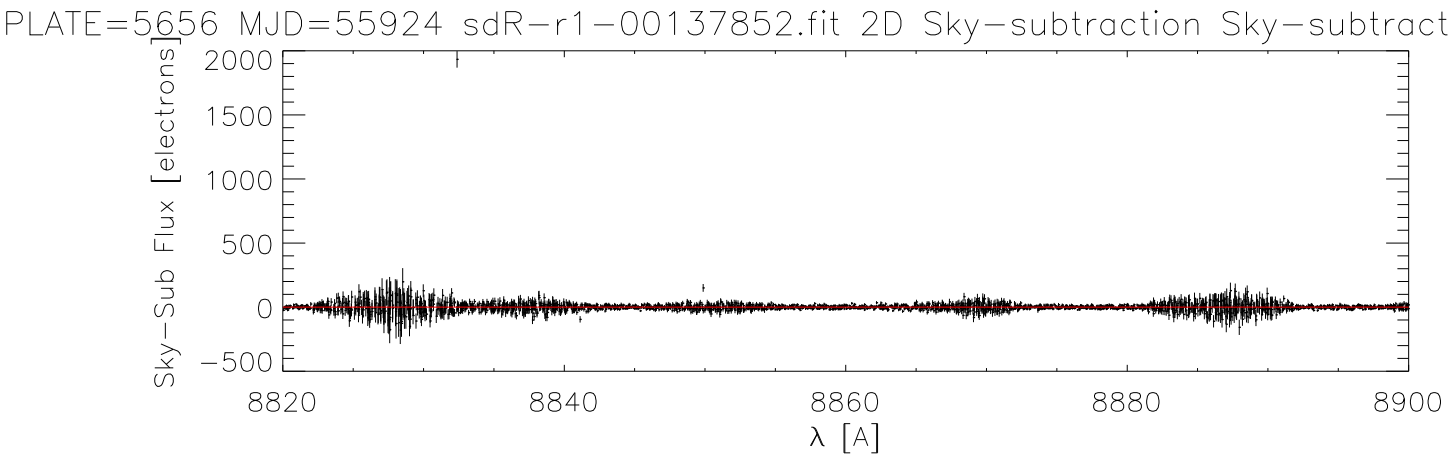

PLATE=5656 MJD=55924 sdR-r1-00137852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 48

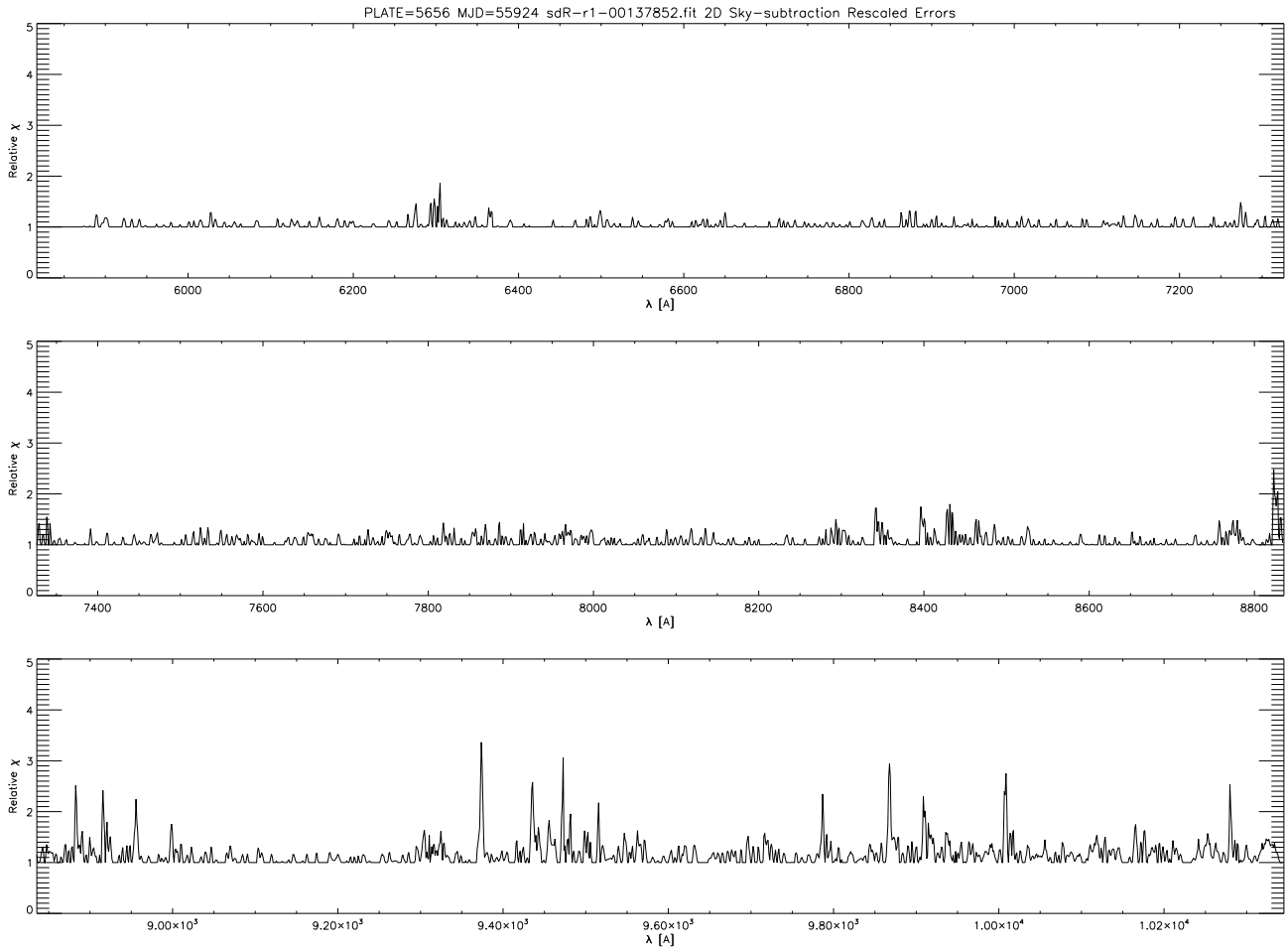


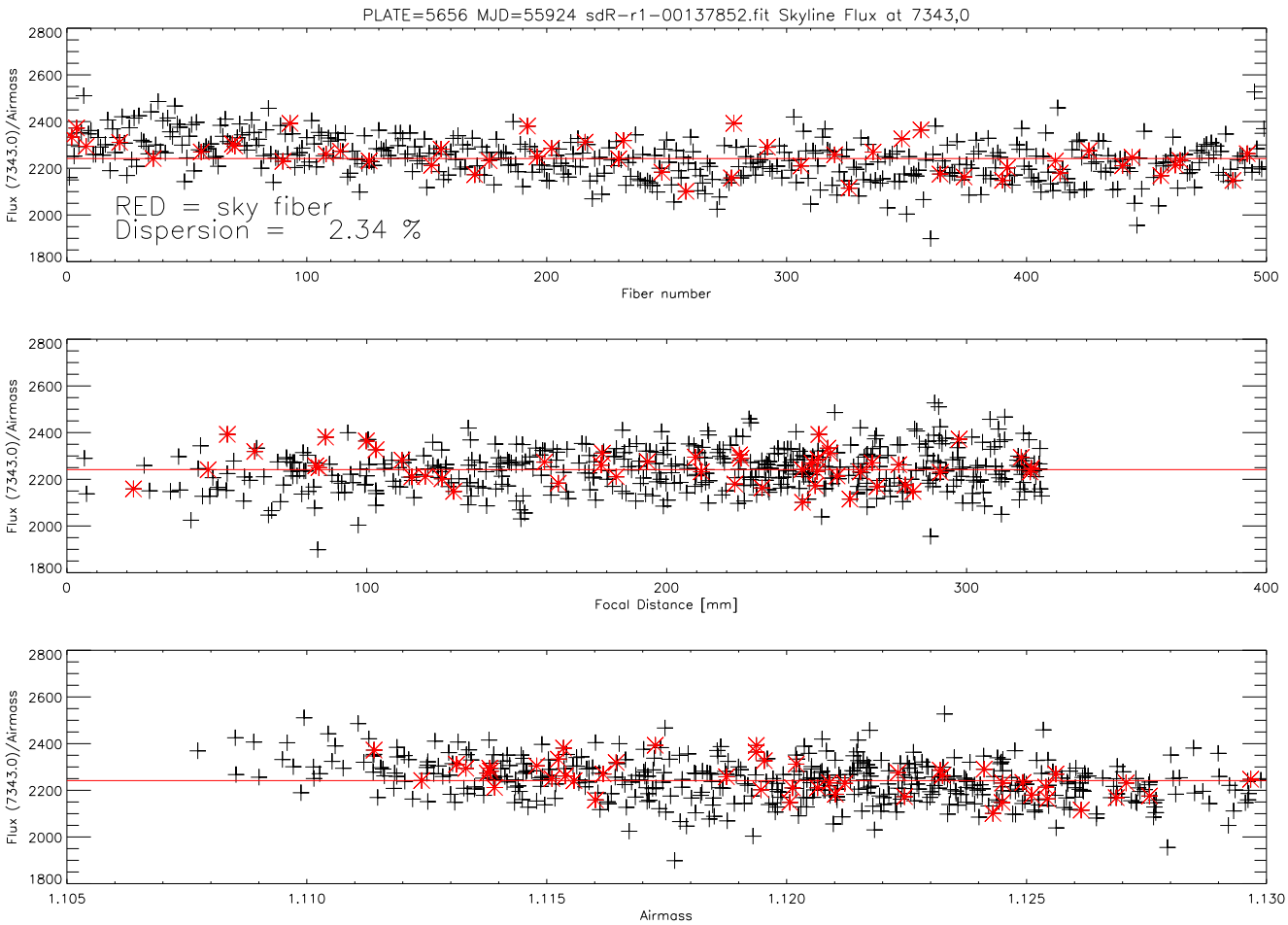

PLATE=5656 MJD=55924 sdR-r1-00137852.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

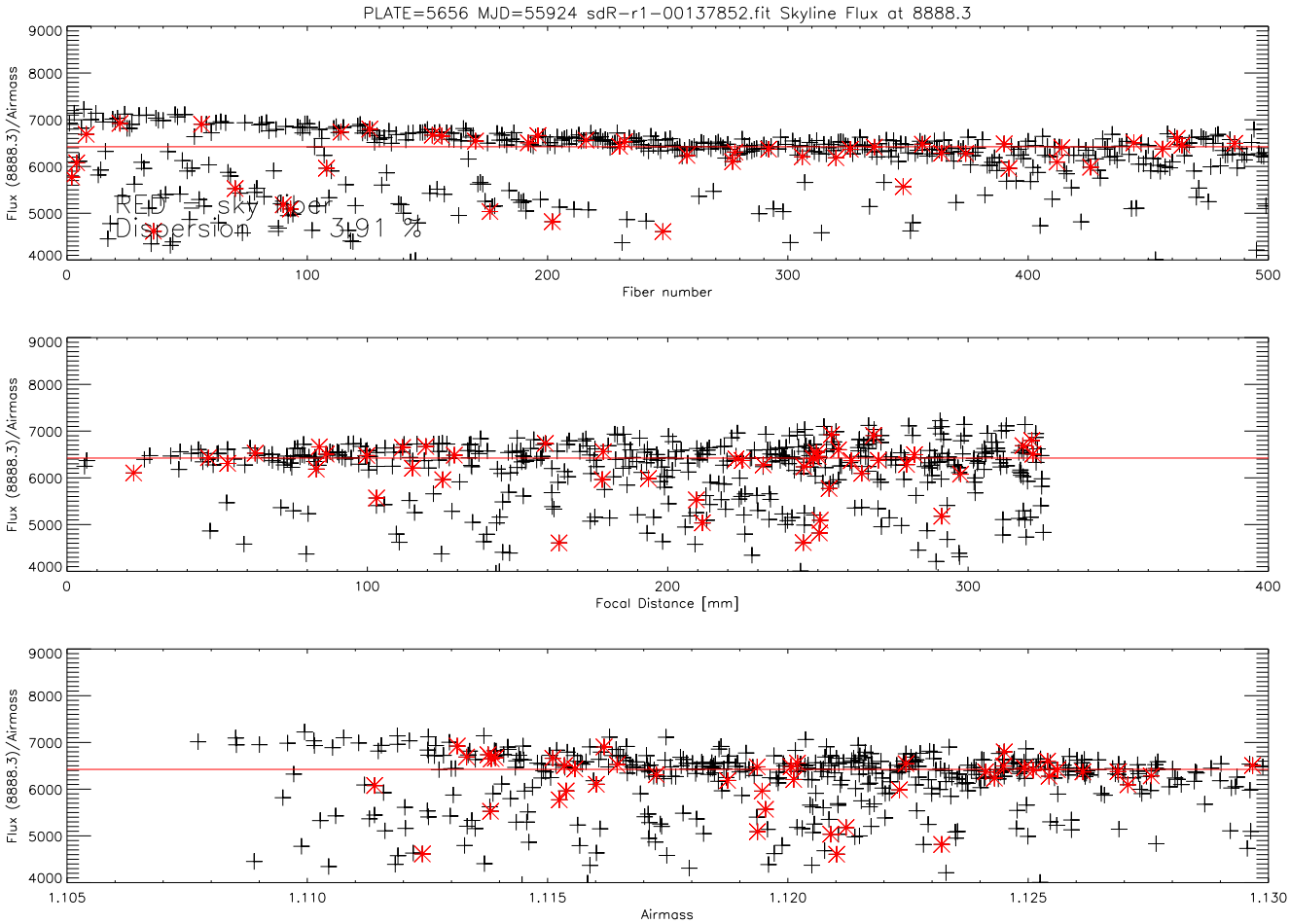

PLATE=5656 MJD=55924 sdR-r1-00137852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=5656 MJD=55924 sdR-r1-00137852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

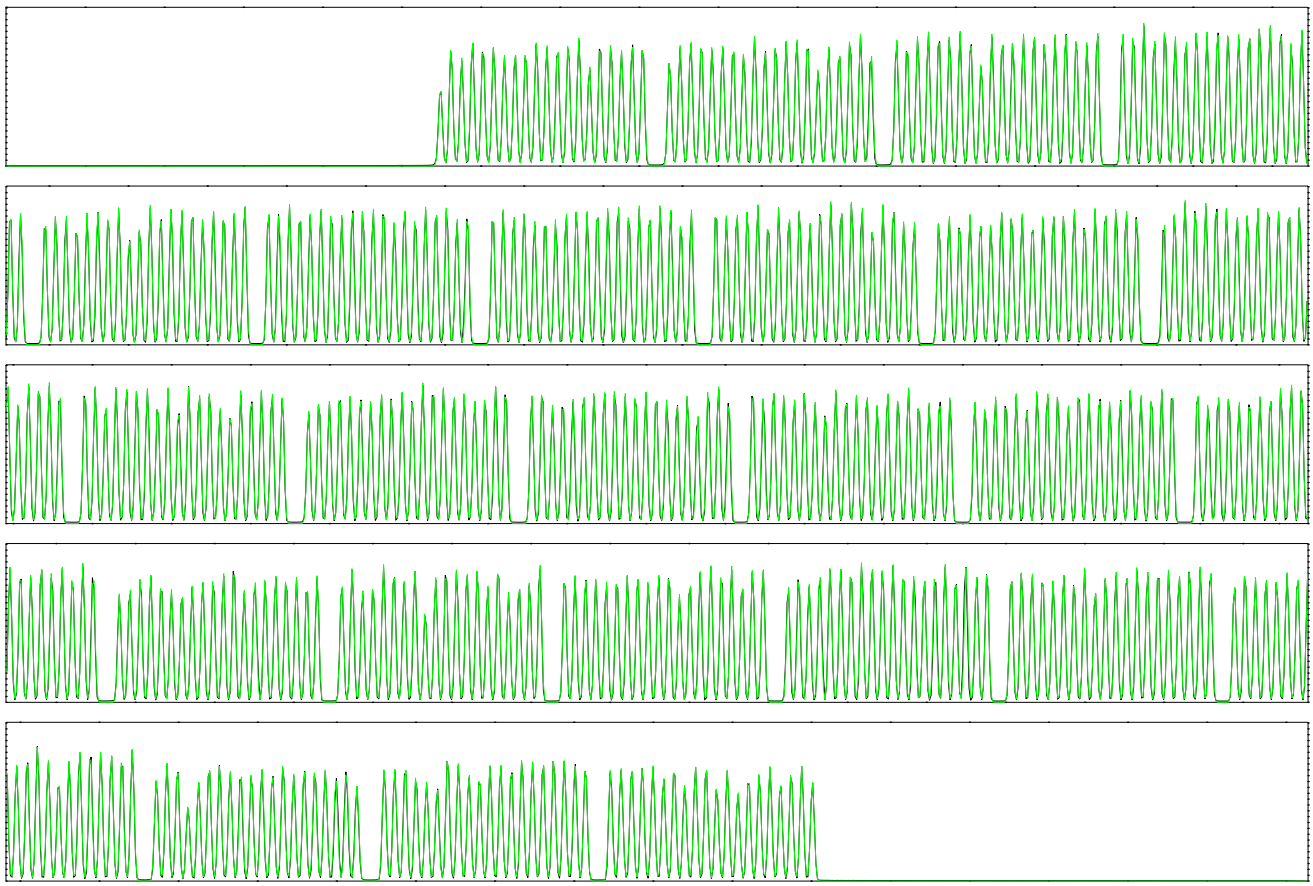
Number of sky fibers = 48

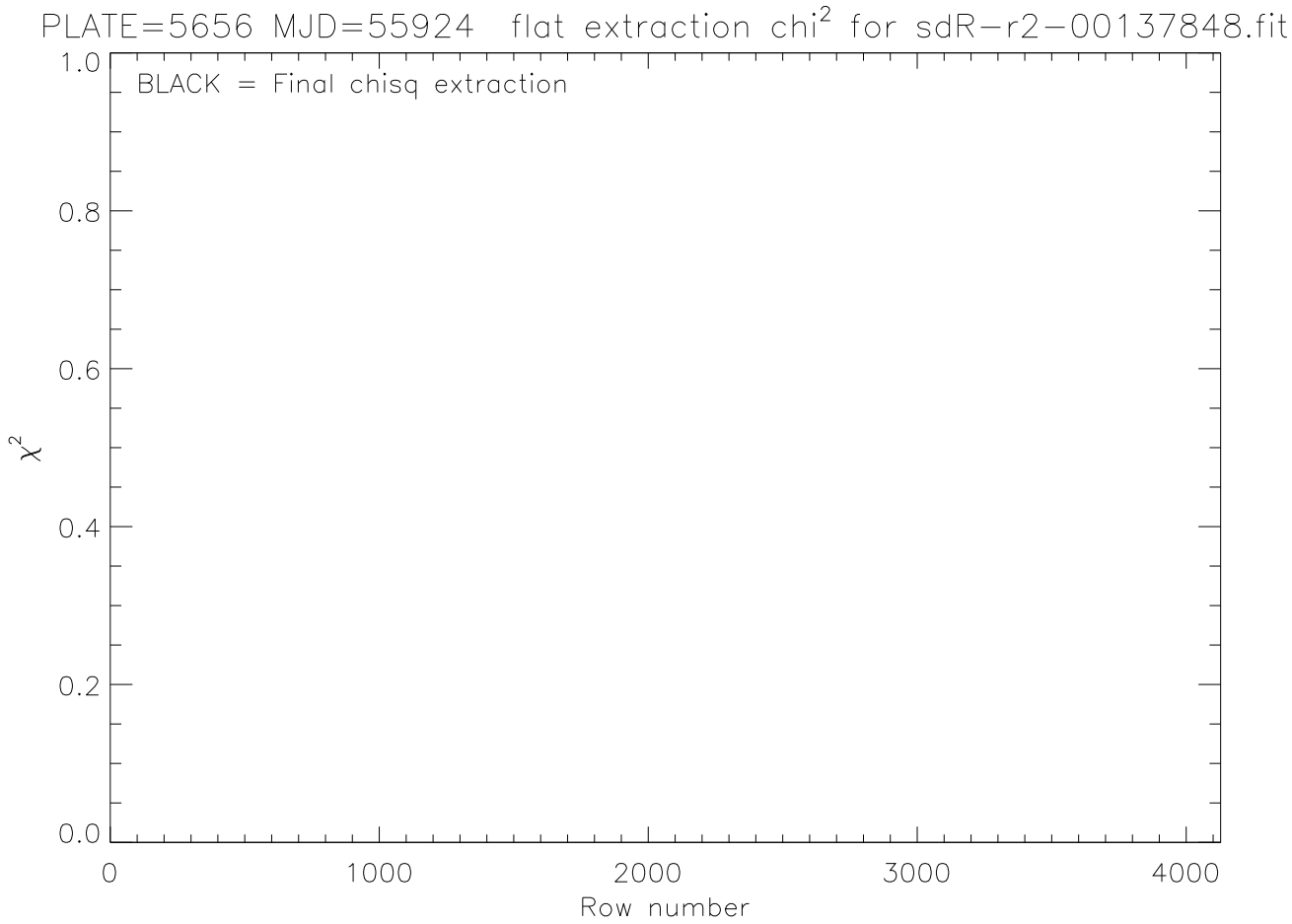


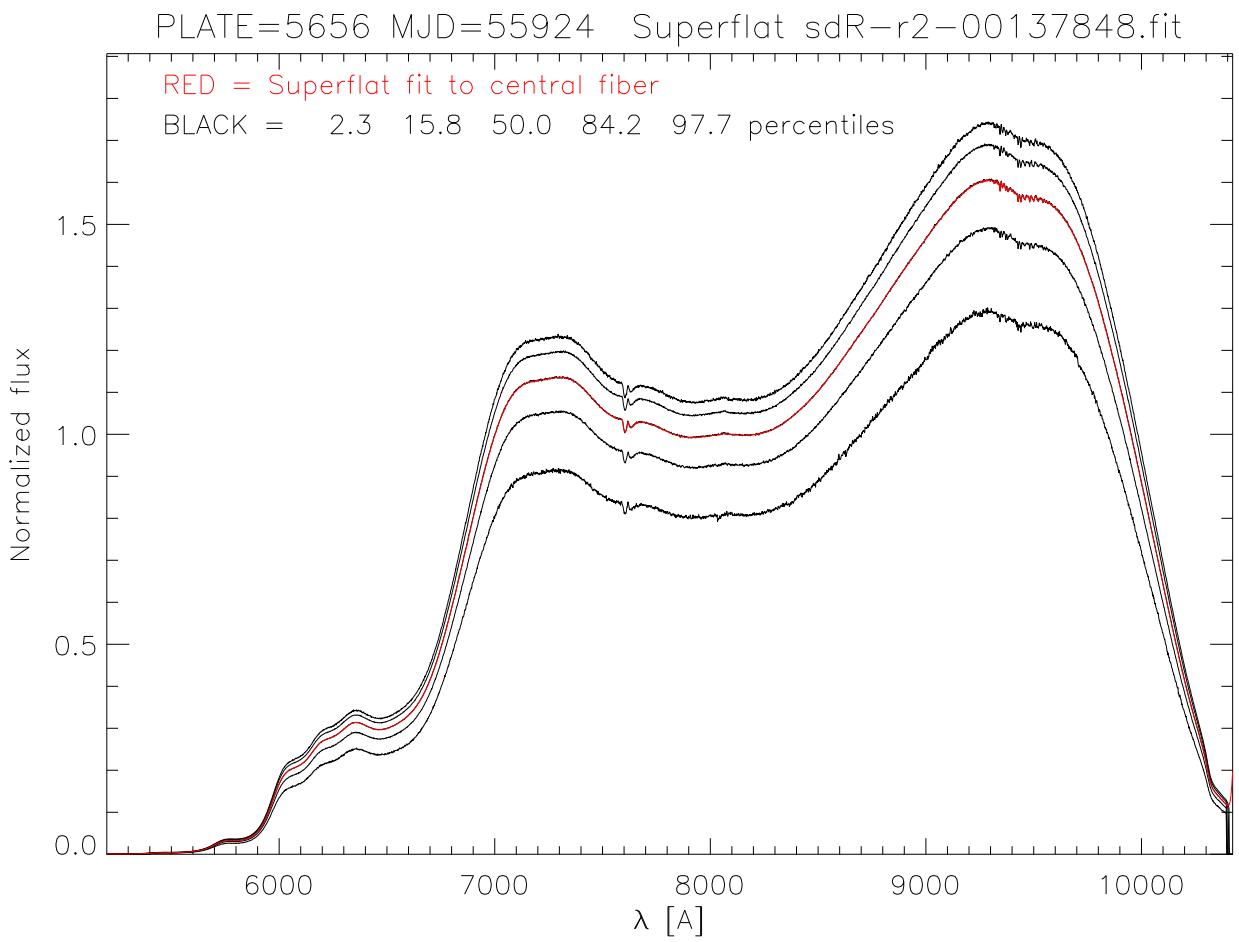

PLATE=5656 MJD=55924 sdR-r1-00137852.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.34 %
Fiber number
Focal Distance [mm]
Airmass

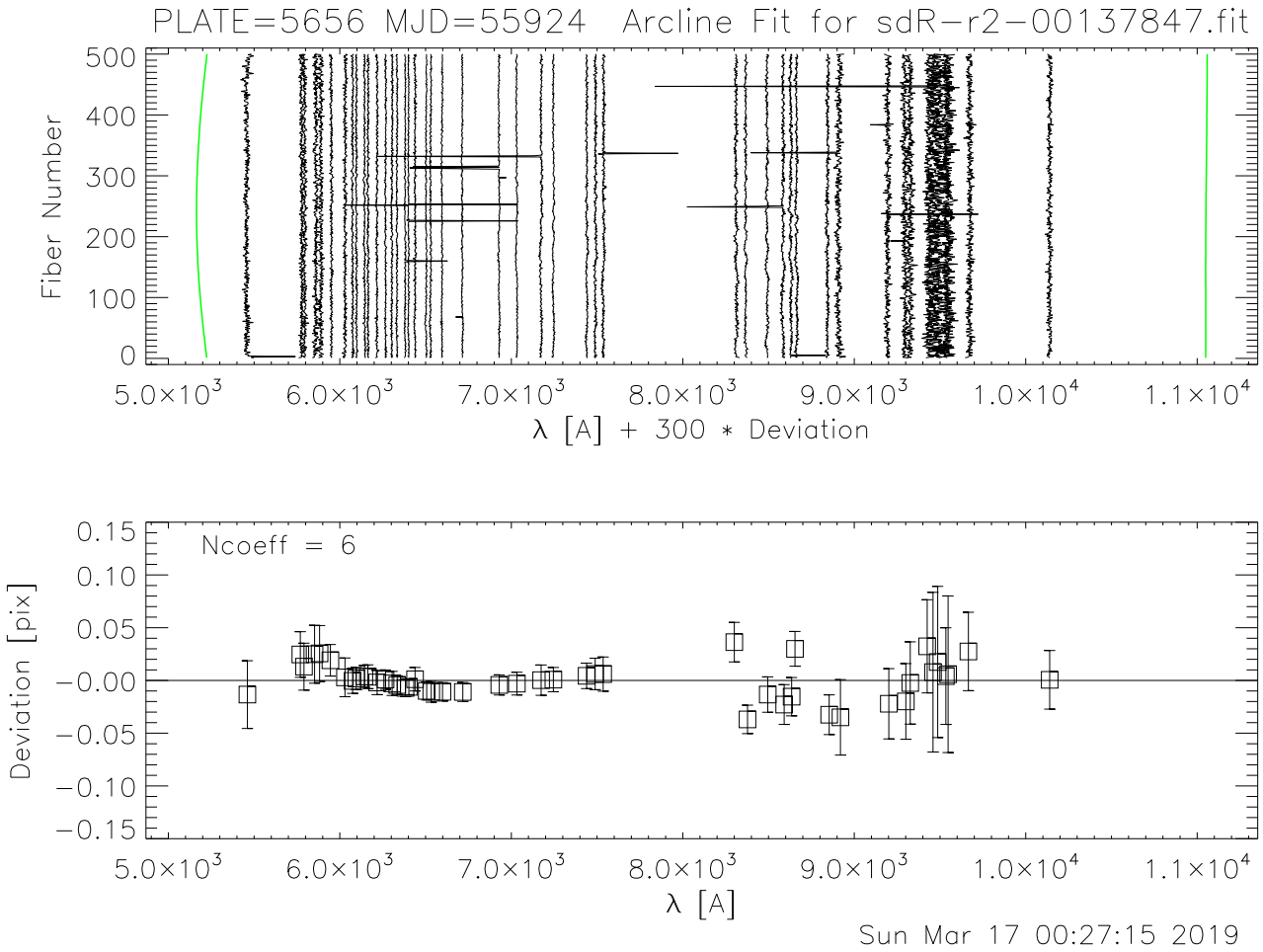

PLATE=5656 MJD=55924 sdR-r1-00137852.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Red sky fiber
Dispersion = 3.91 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

PLATE=5656 MJD=55924 Traces sdR-r2-00137848.fit

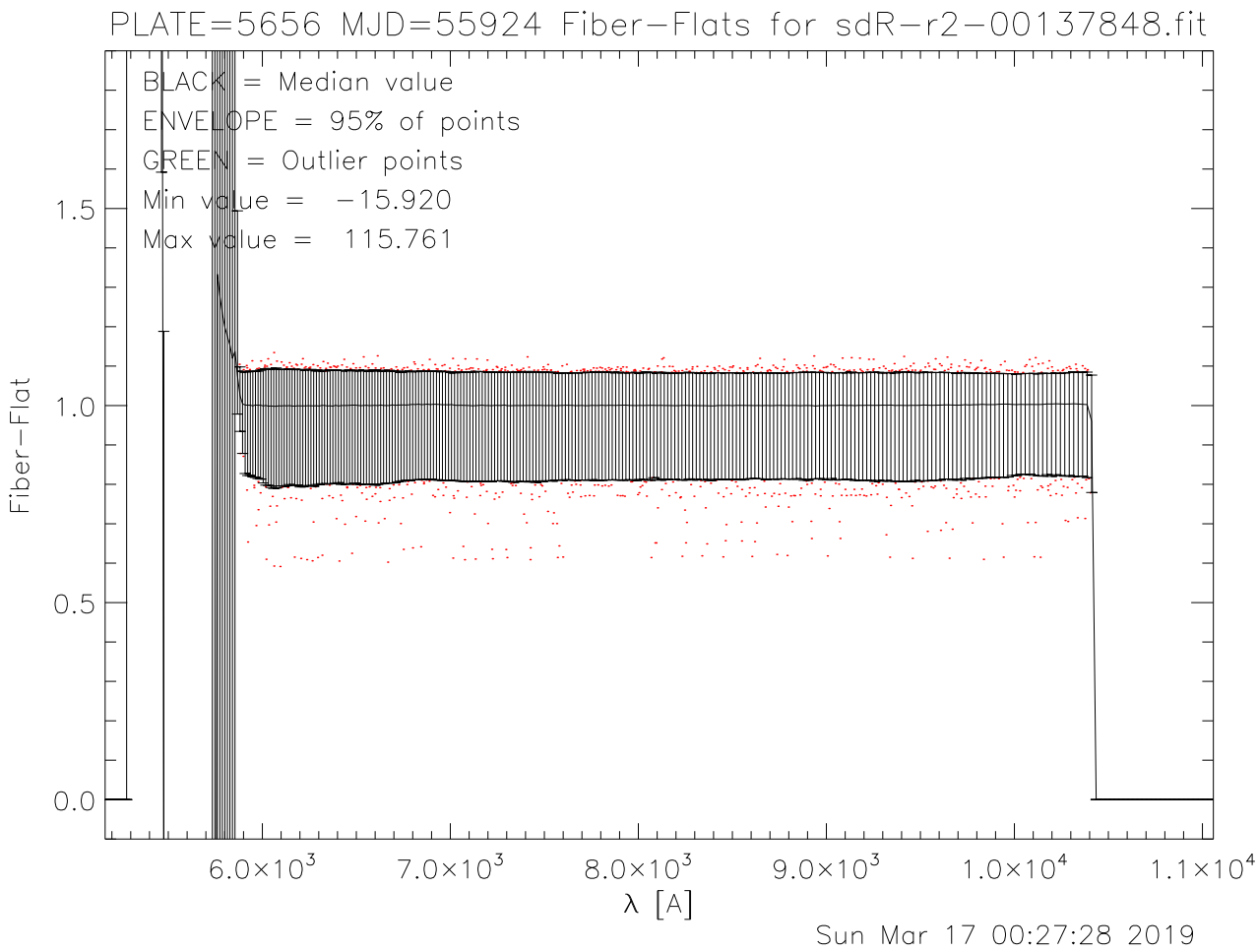


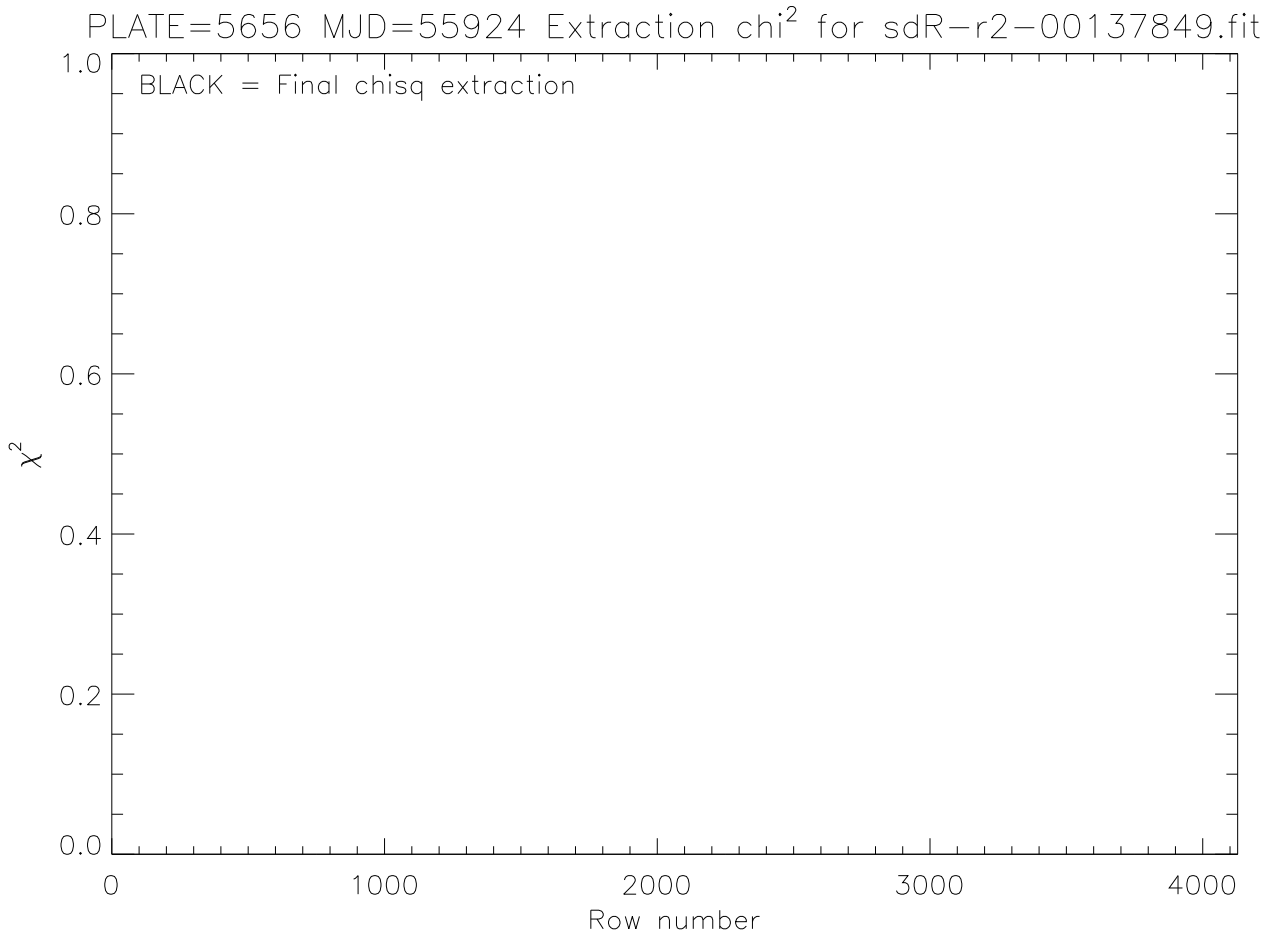

PLATE=5656 MJD=55924 flat extraction chi^2 for sdR−r2−00137848.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

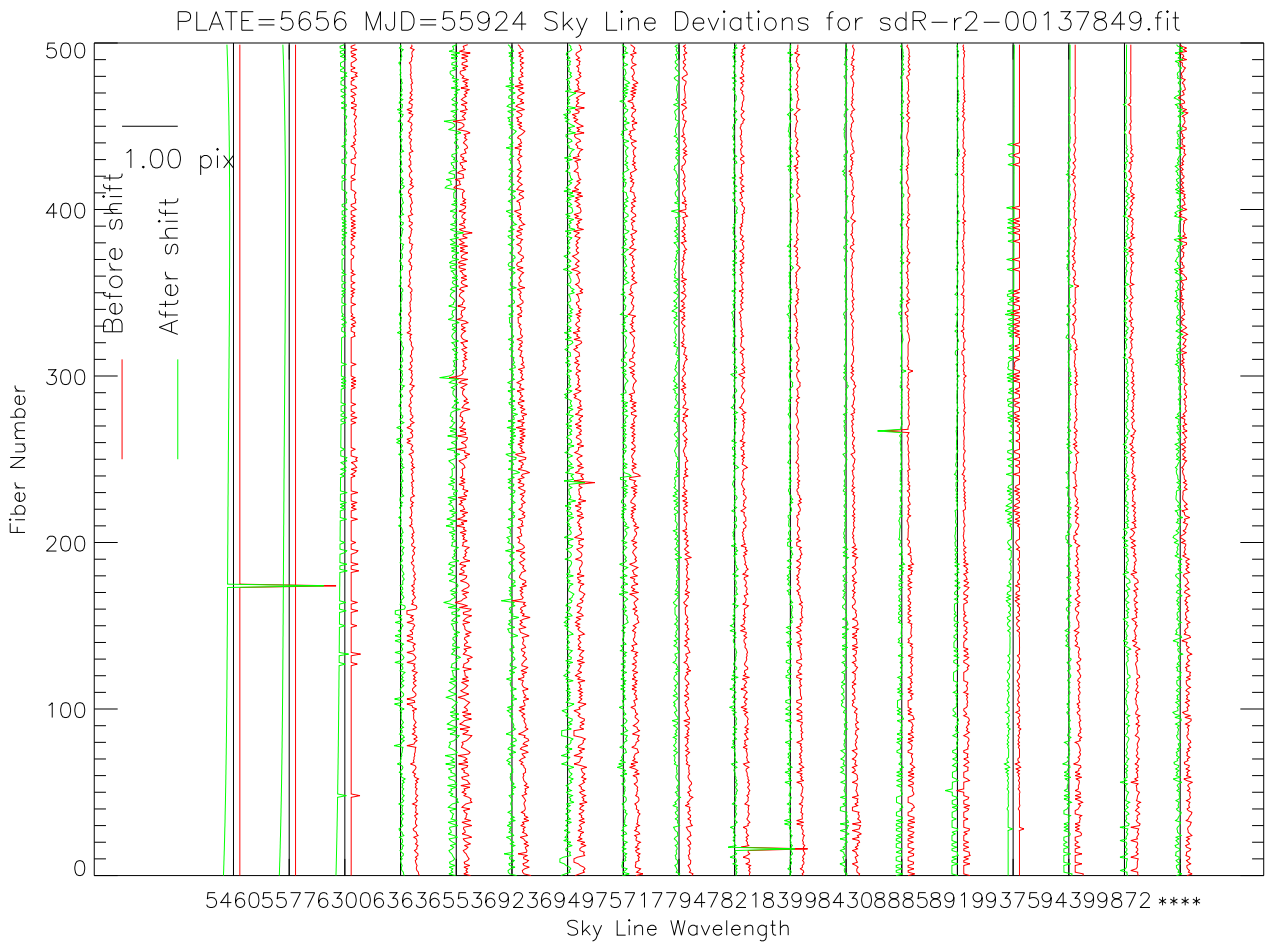

PLATE=5656 MJD=55924 Superflat sdR-r2-00137848.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

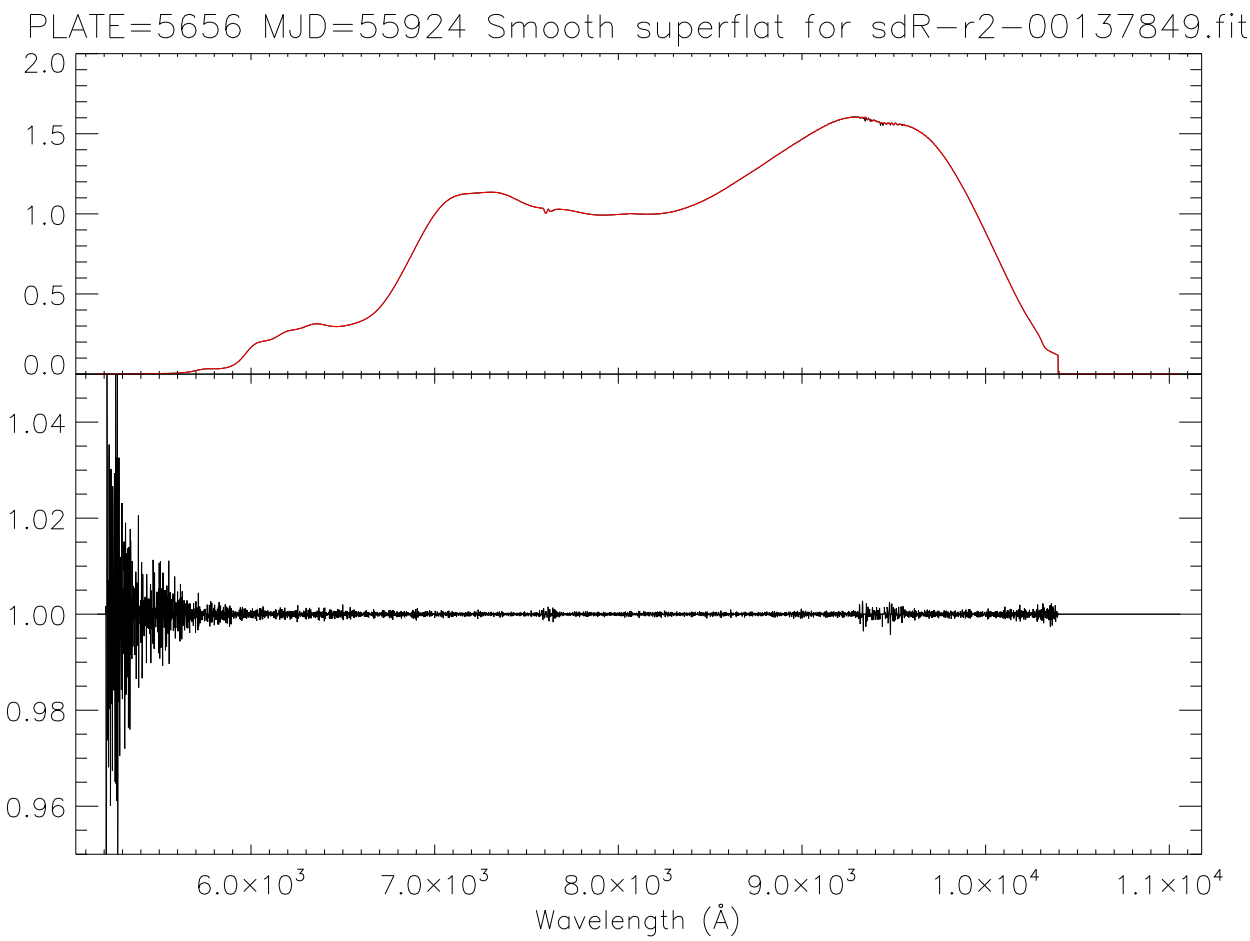

PLATE=5656 MJD=55924 Arcline Fit for sdR-r2-00137847.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

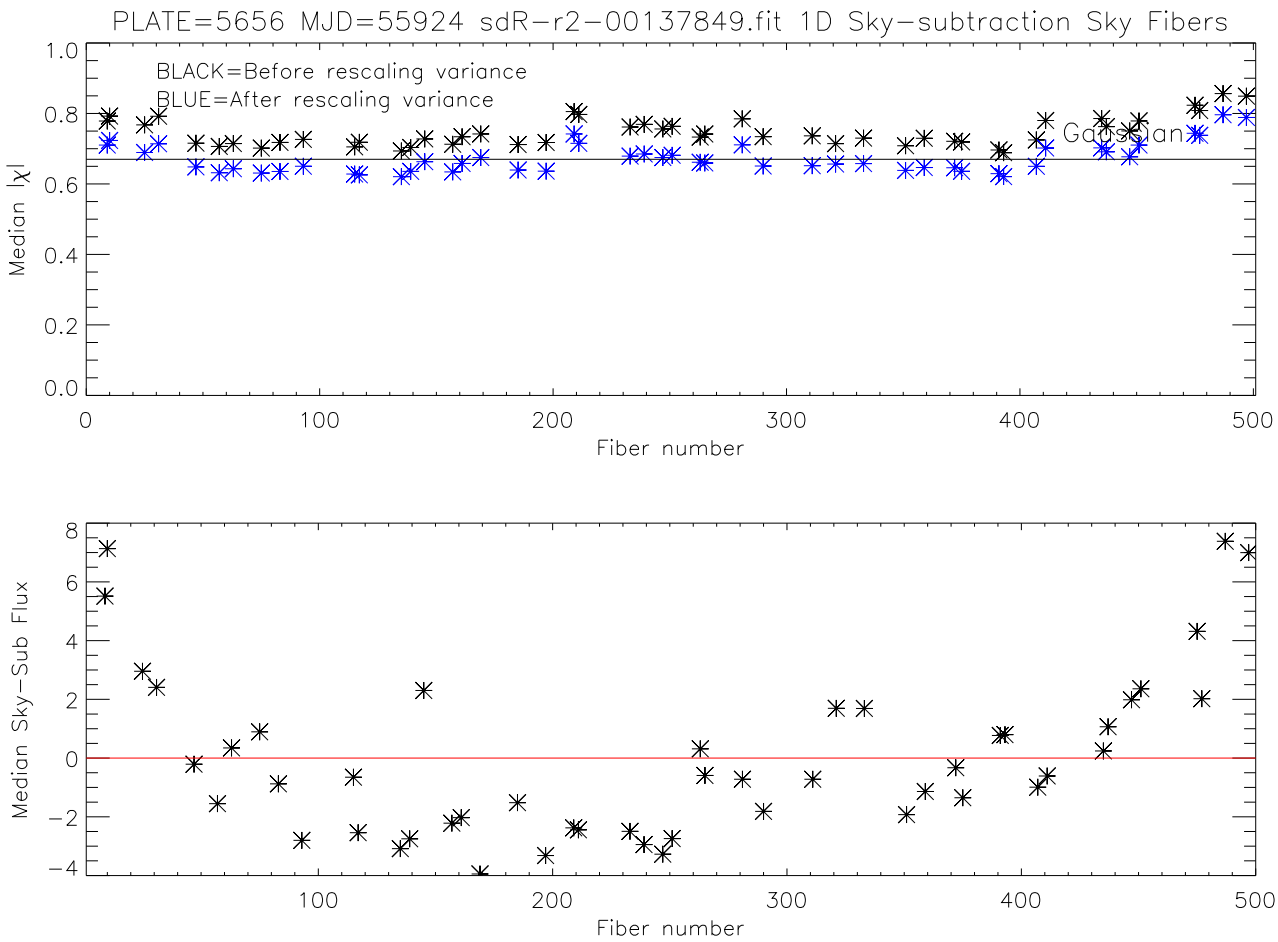
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:27:15 2019

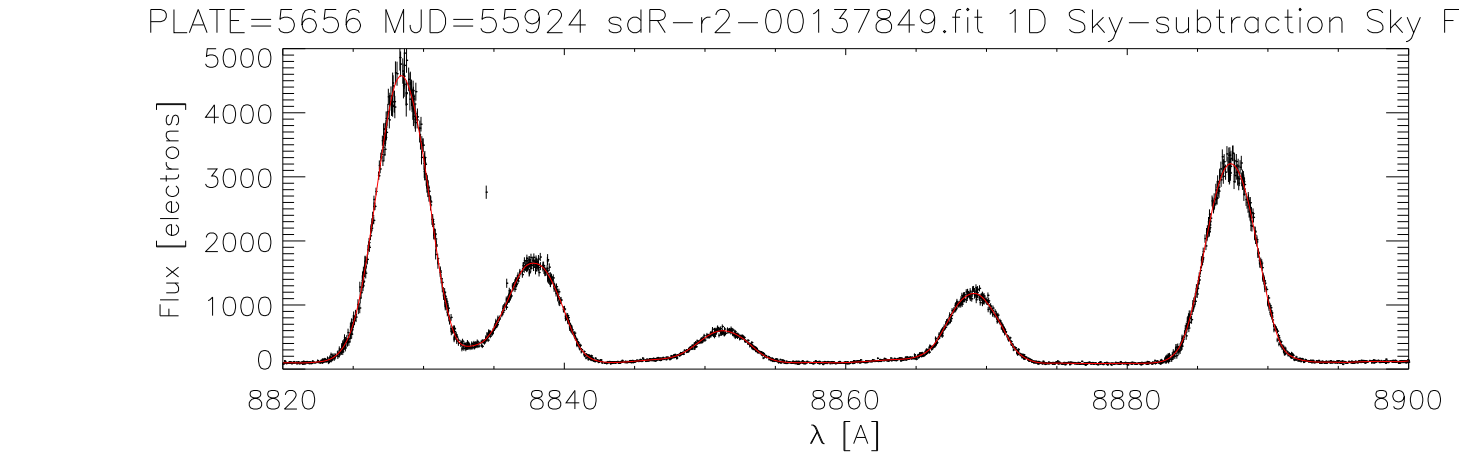

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r2−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −15.920
Max value = 115.761
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:27:28 2019

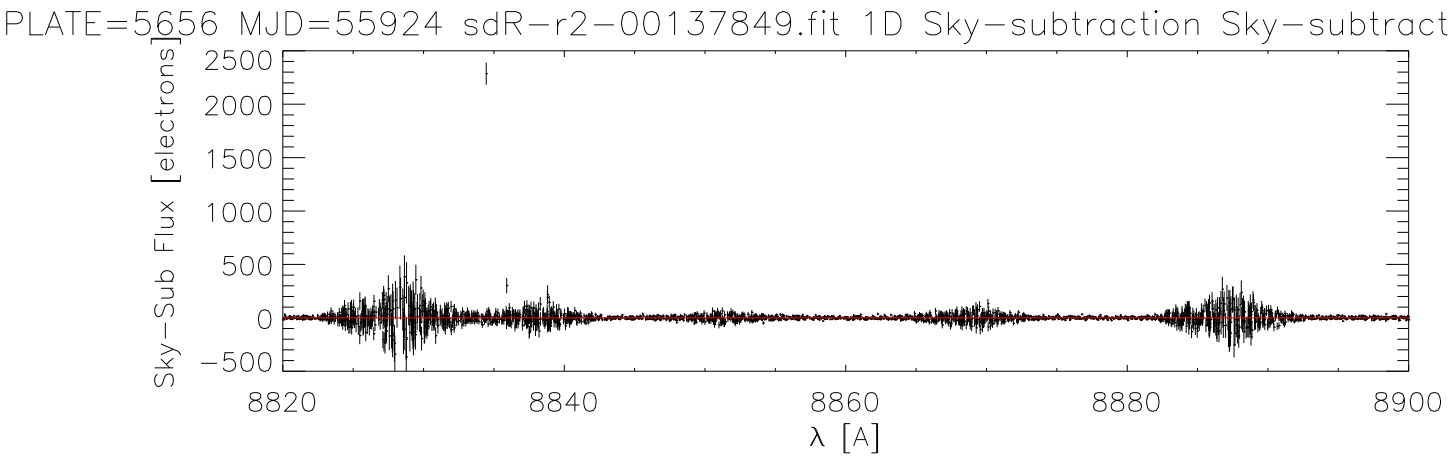

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r2−00137849.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r2-00137849.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
546055776300636365536923694975717794782183998430888589199375943998 72 ****
Sky Line Wavelength

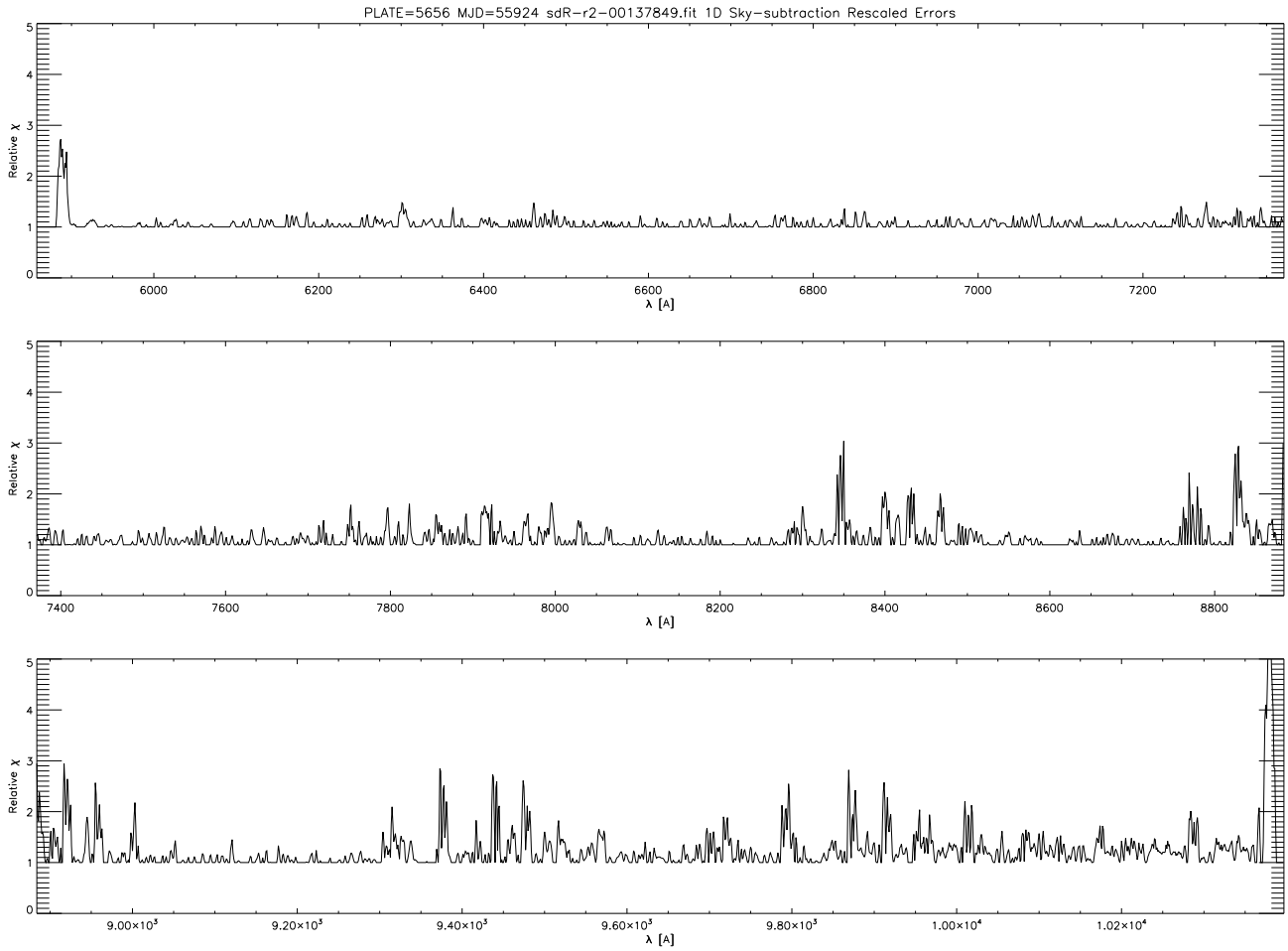

PLATE=5656 MJD=55924 Smooth superflat for sdR-r2-00137849.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

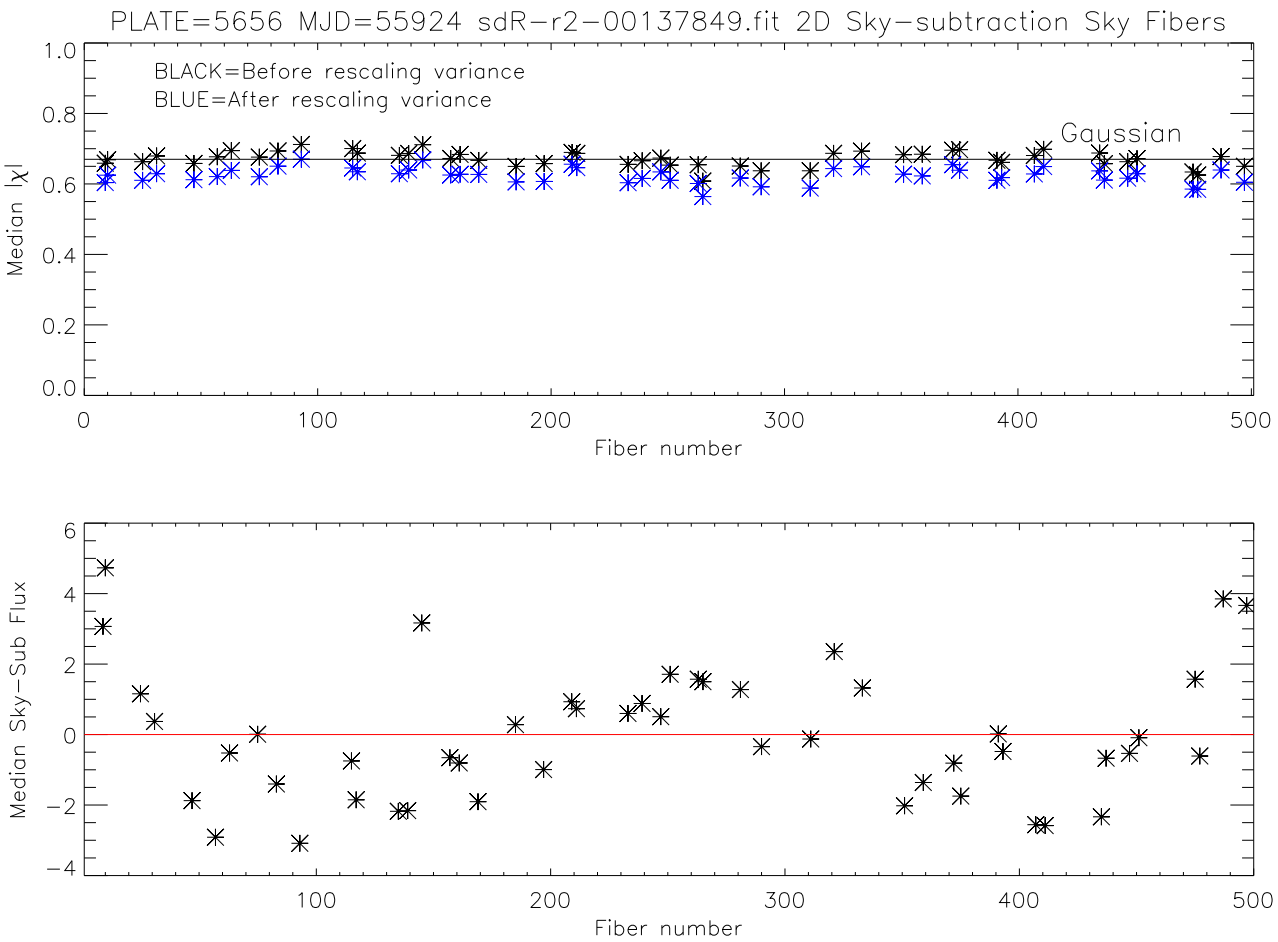

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

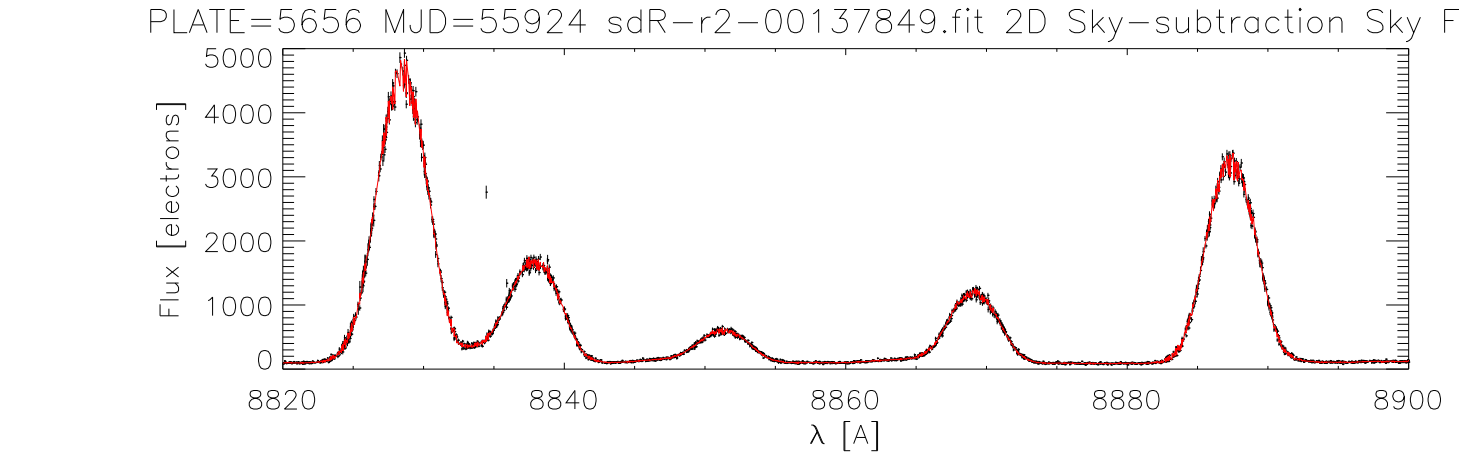

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

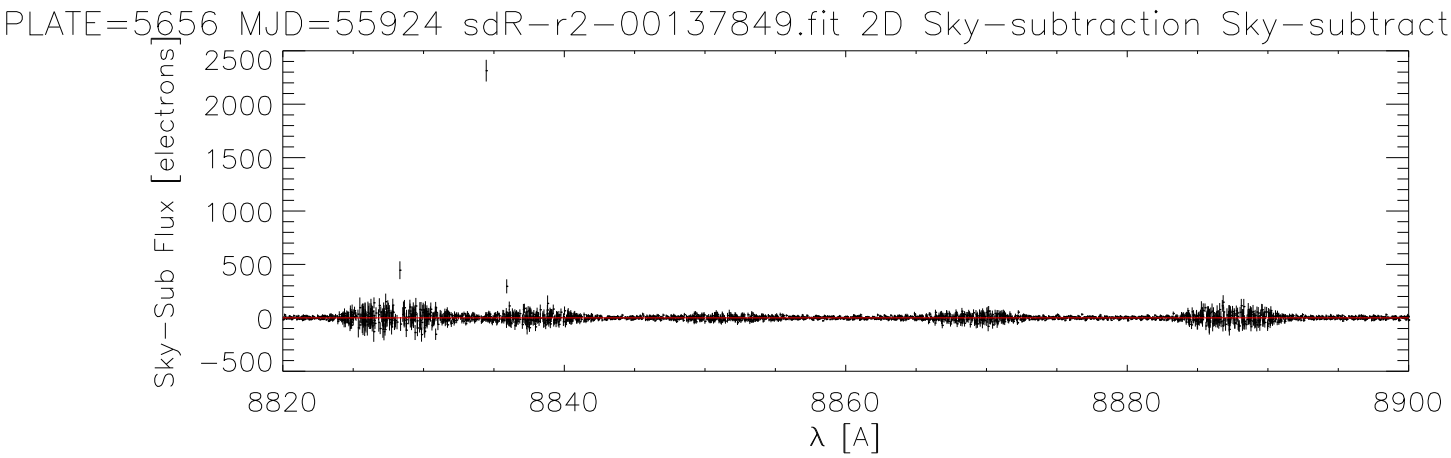

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

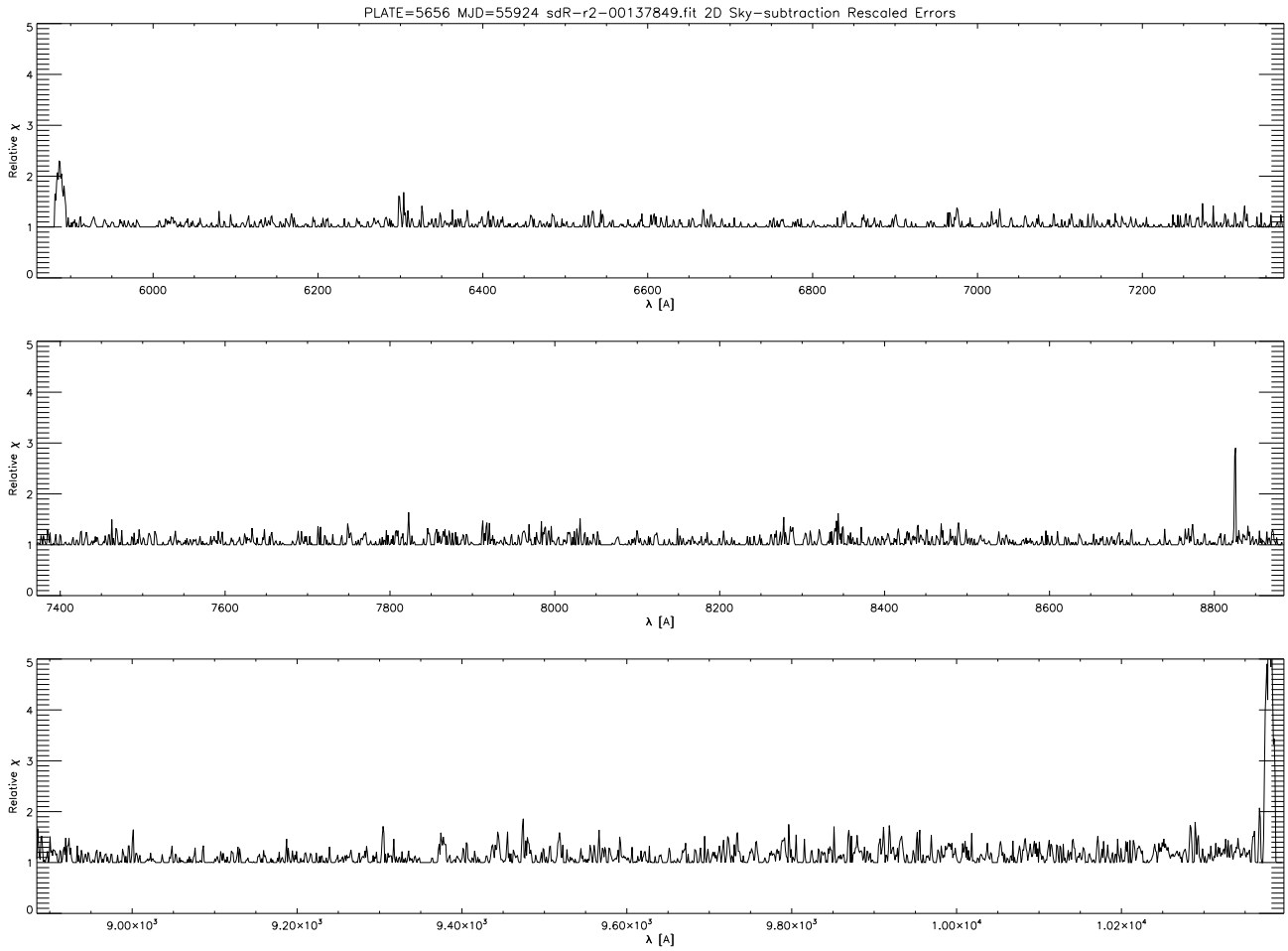


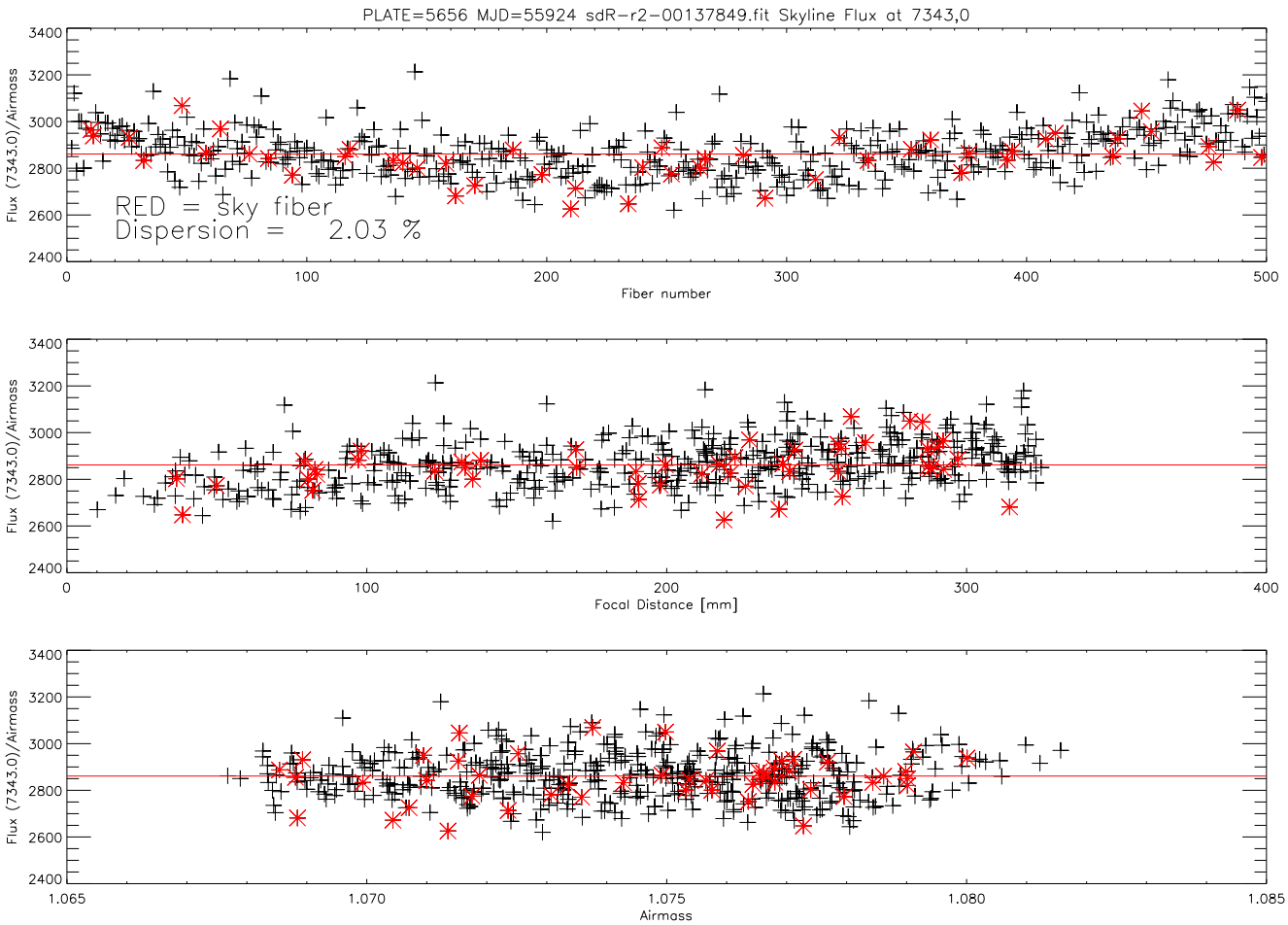

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

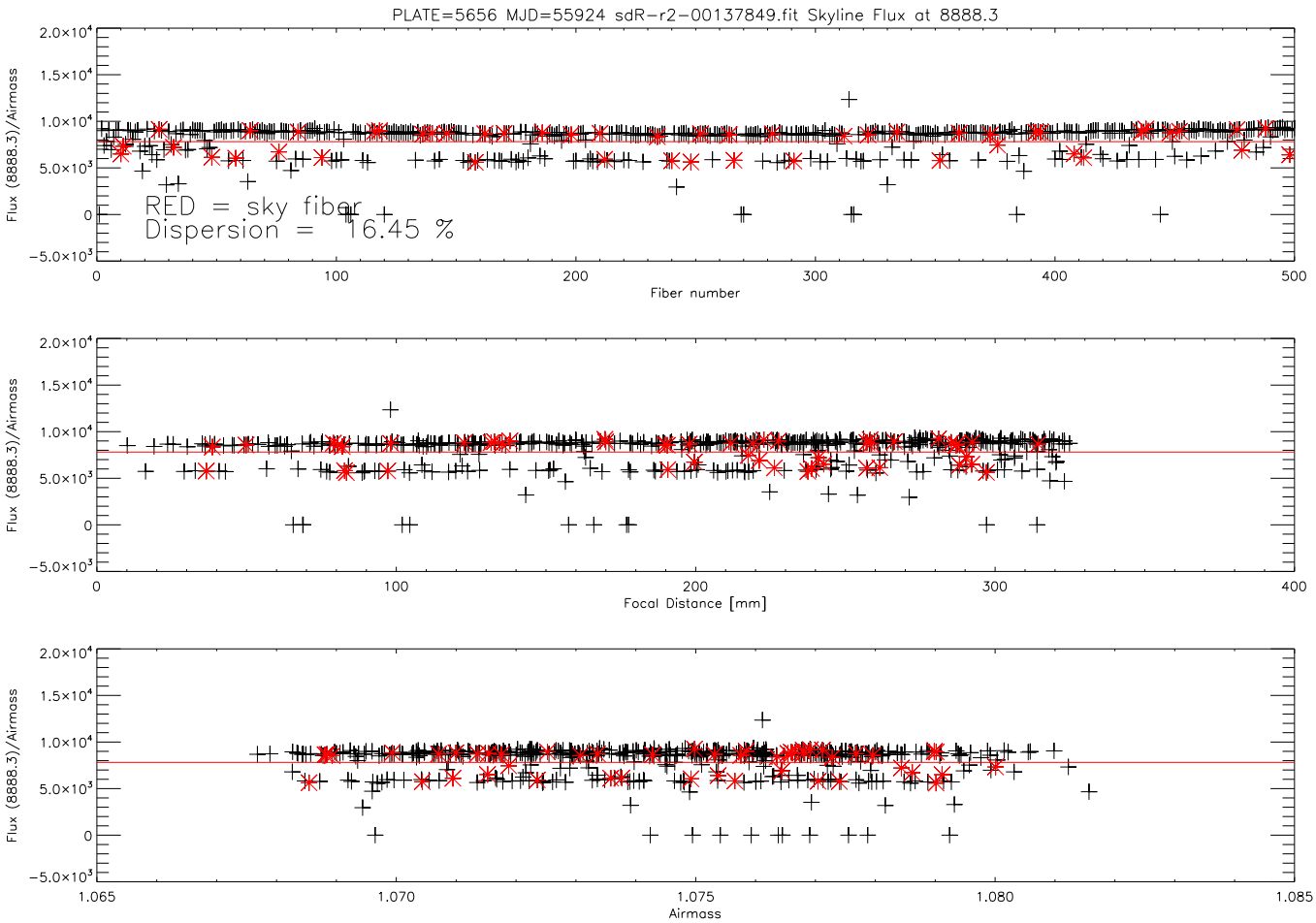

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

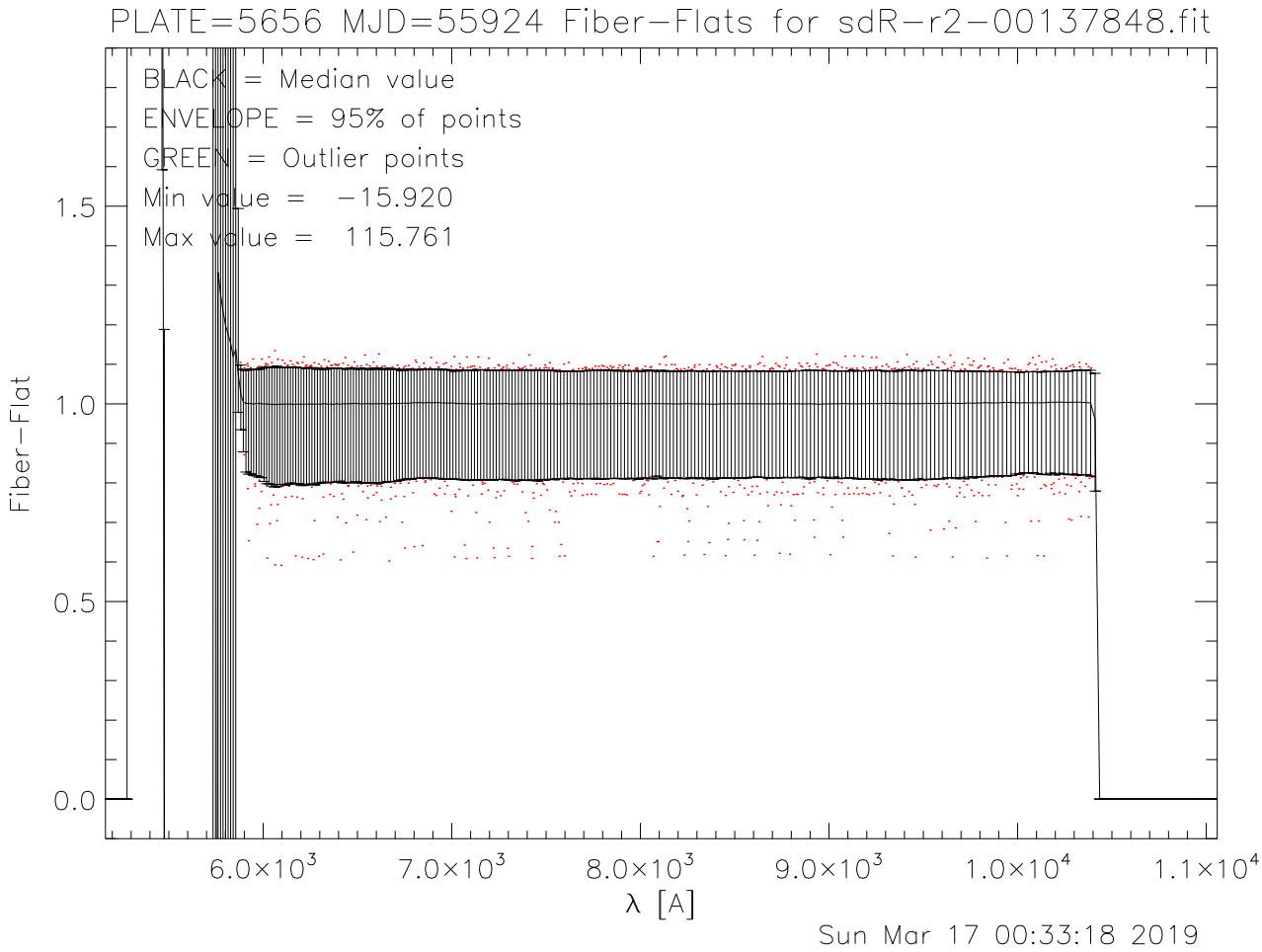

PLATE=5656 MJD=55924 sdR-r2-00137849.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

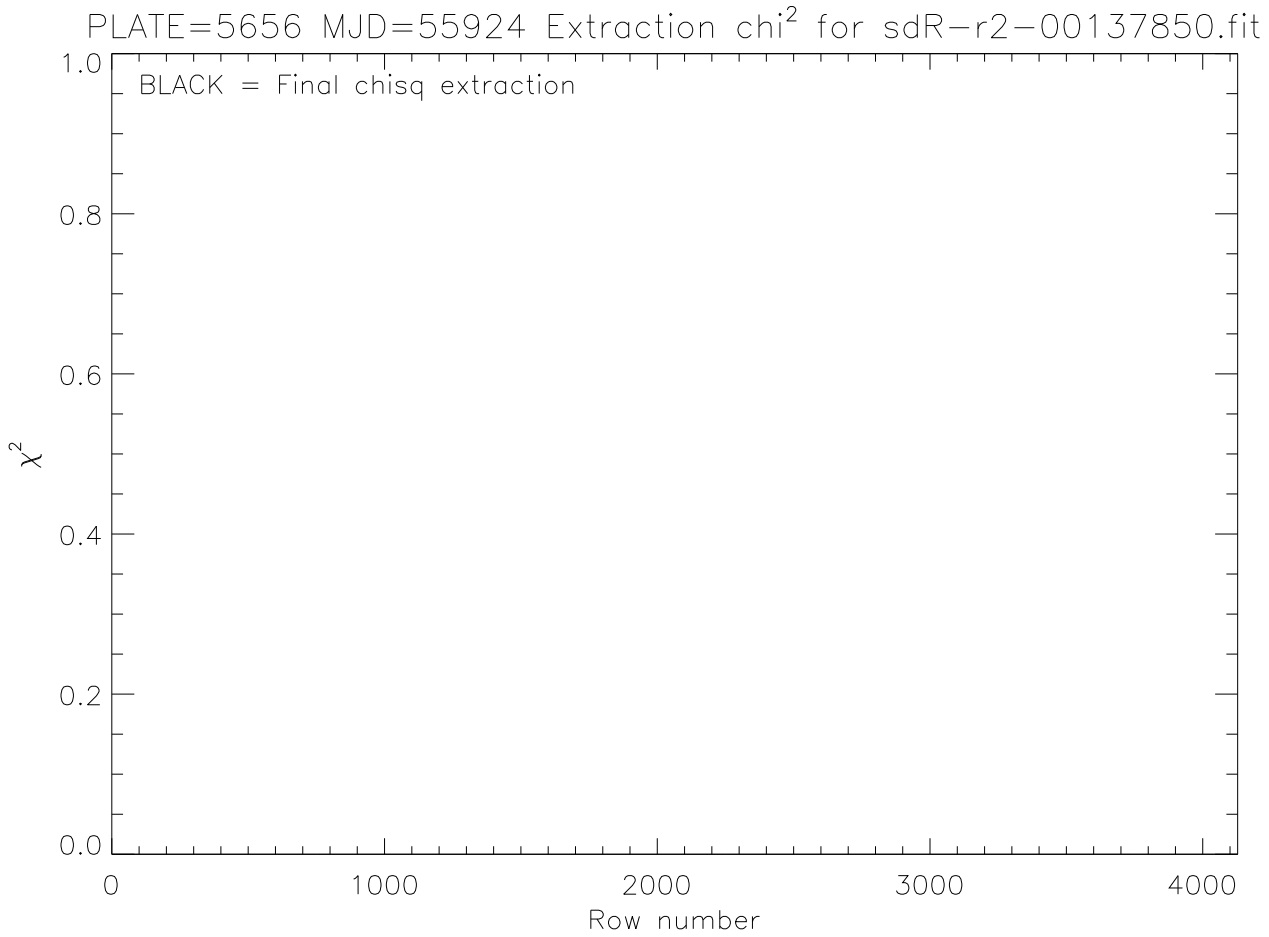
Number of sky fibers = 49

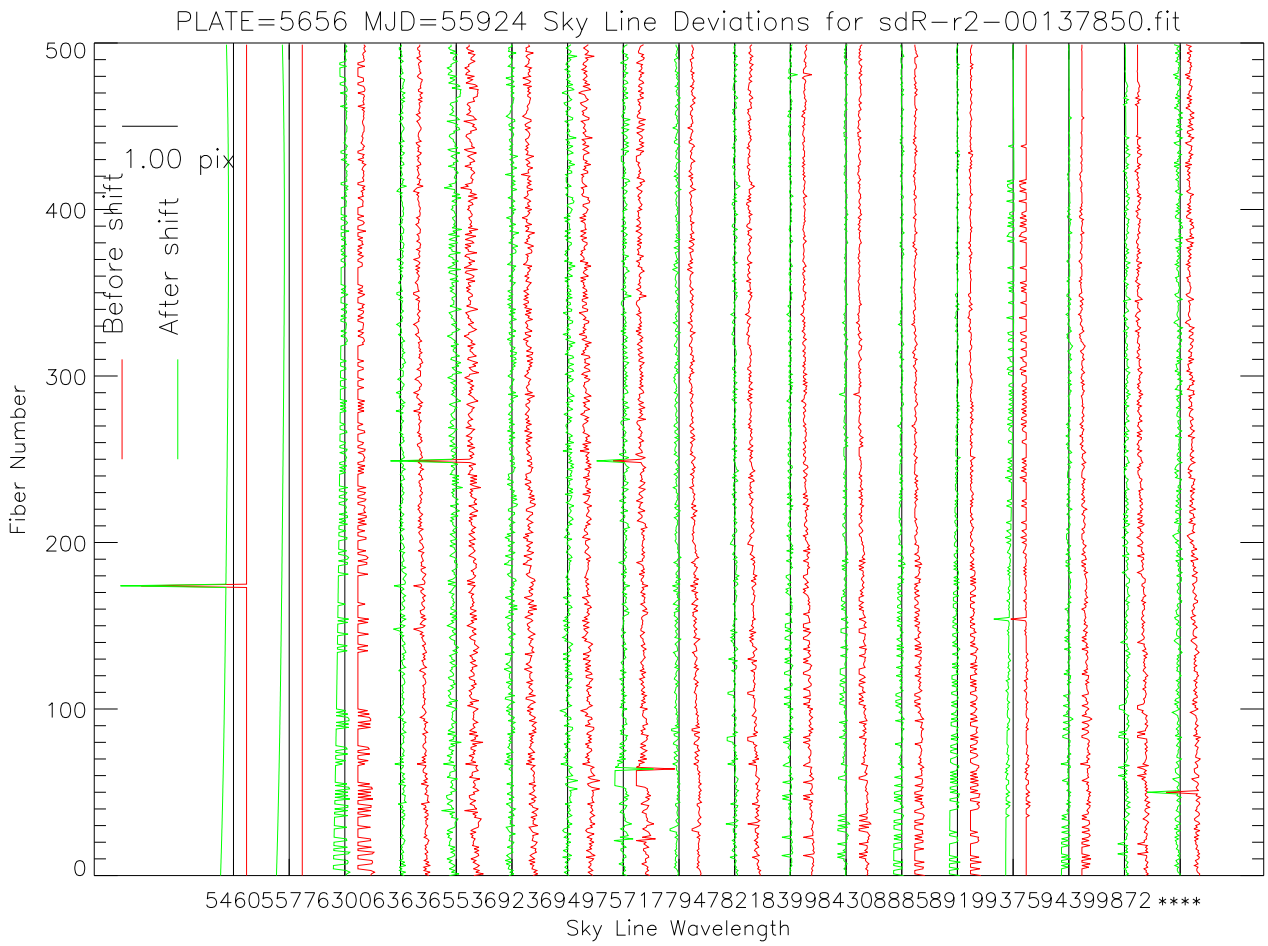


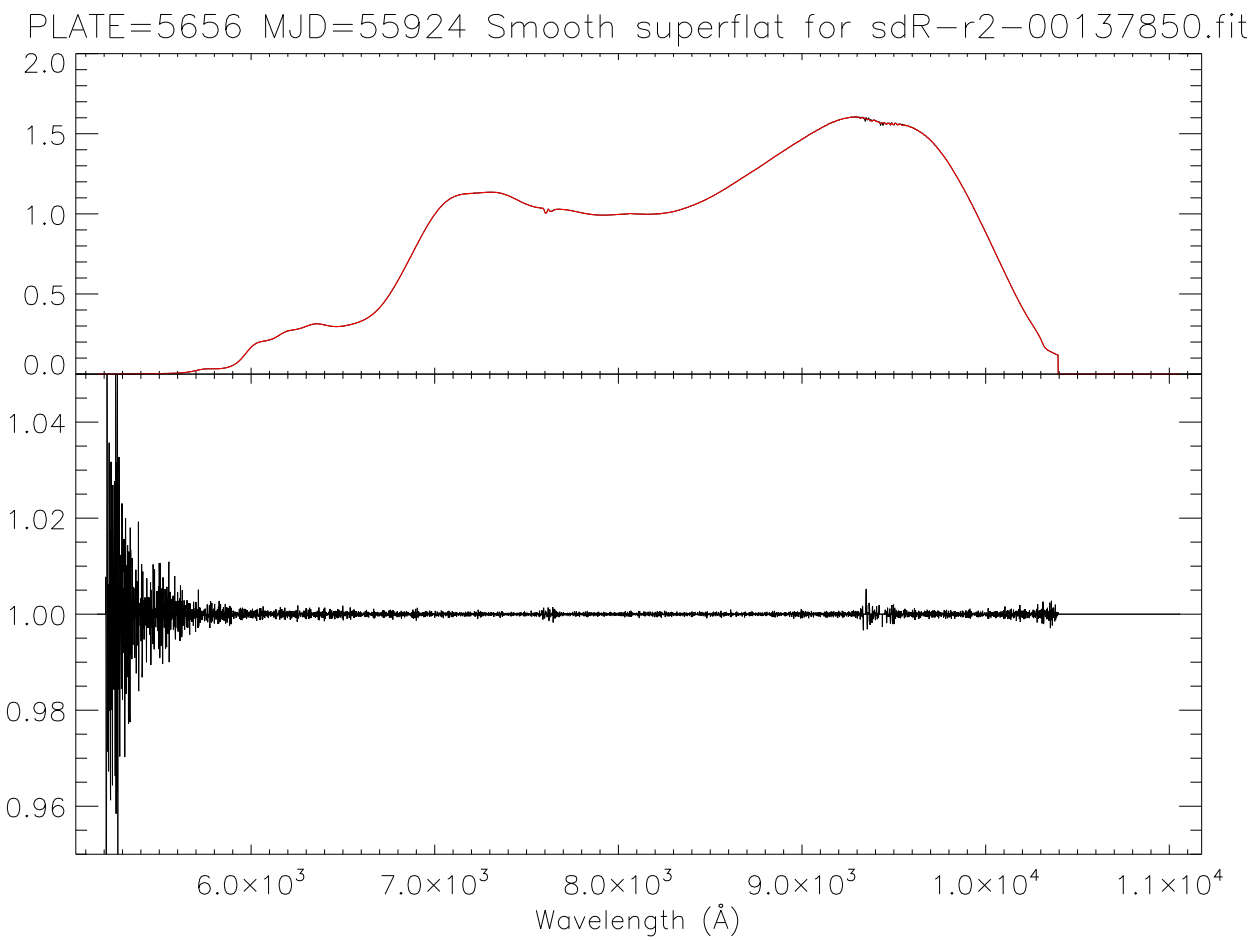

PLATE=5656 MJD=55924 sdR-r2-00137849.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.03 %
Fiber number
Focal Distance [mm]
Airmass

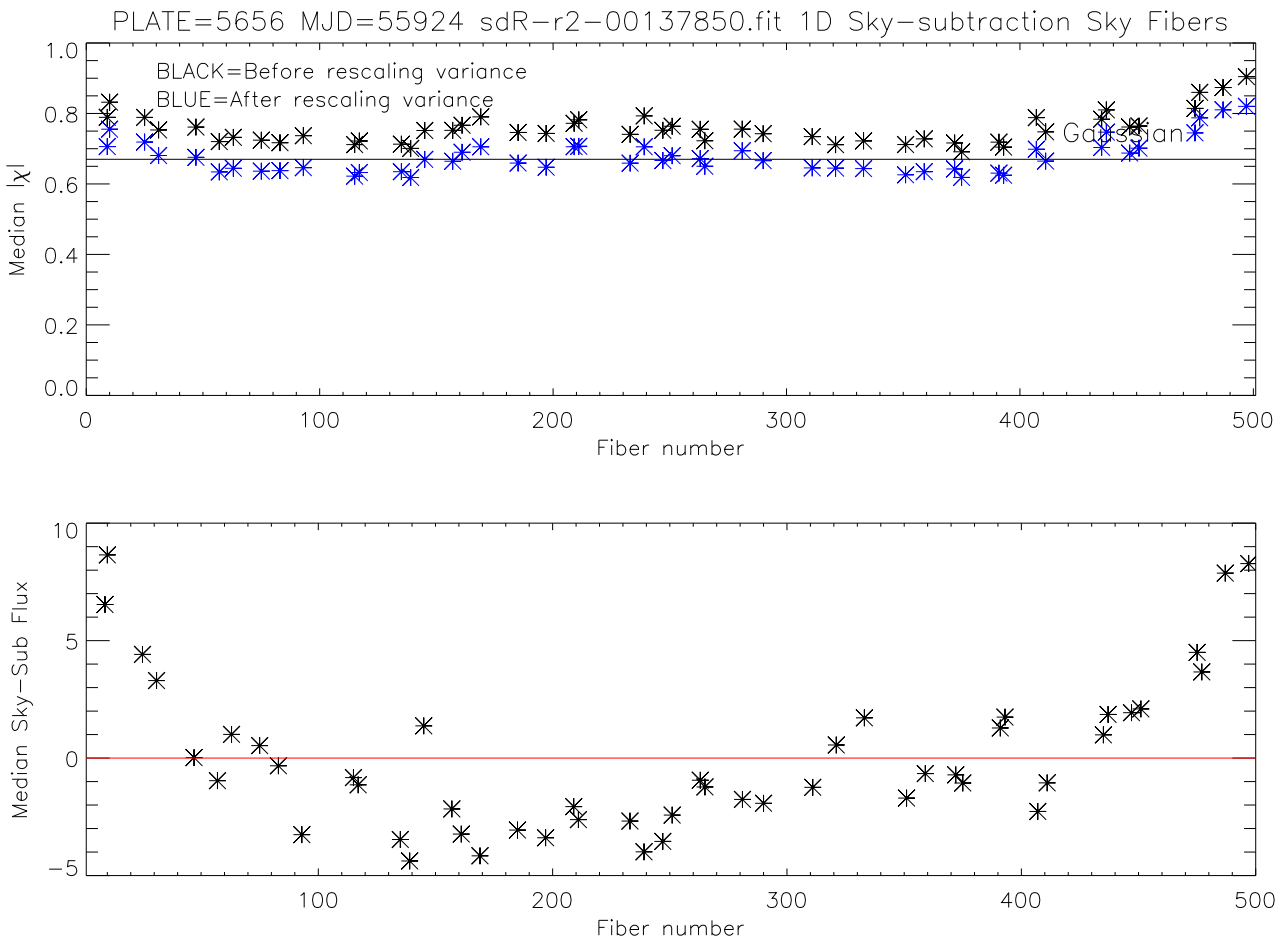

PLATE=5656 MJD=55924 sdR-r2-00137849.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 16.45 %
Fiber number
Focal Distance [mm]
Airmass

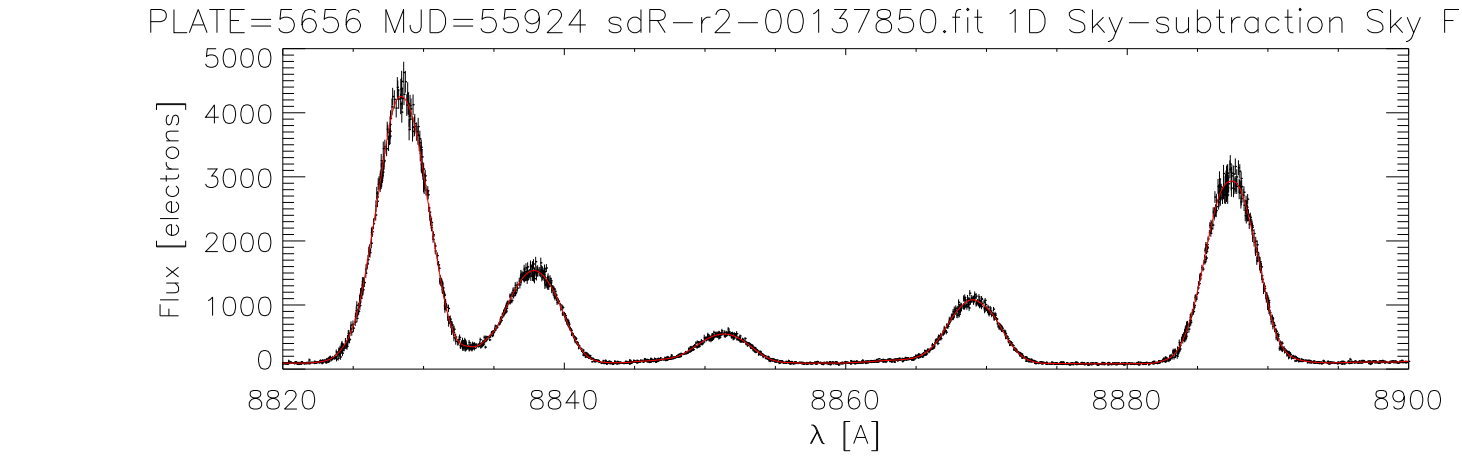

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r2−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −15.920
Max value = 115.761
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:33:18 2019

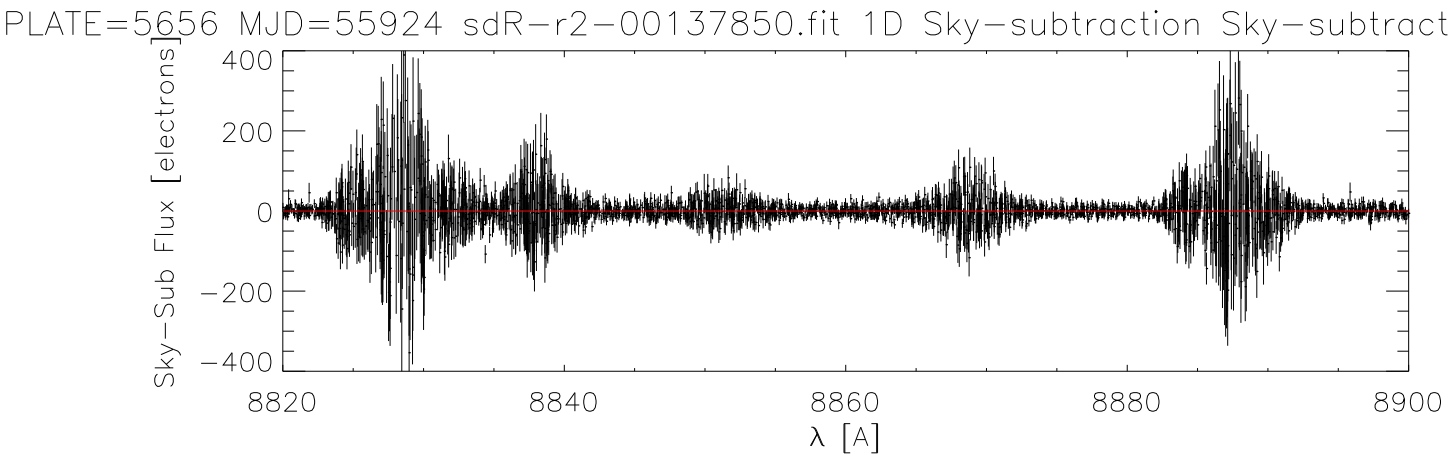

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r2−00137850.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r2-00137850.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
Sky Line Wavelength

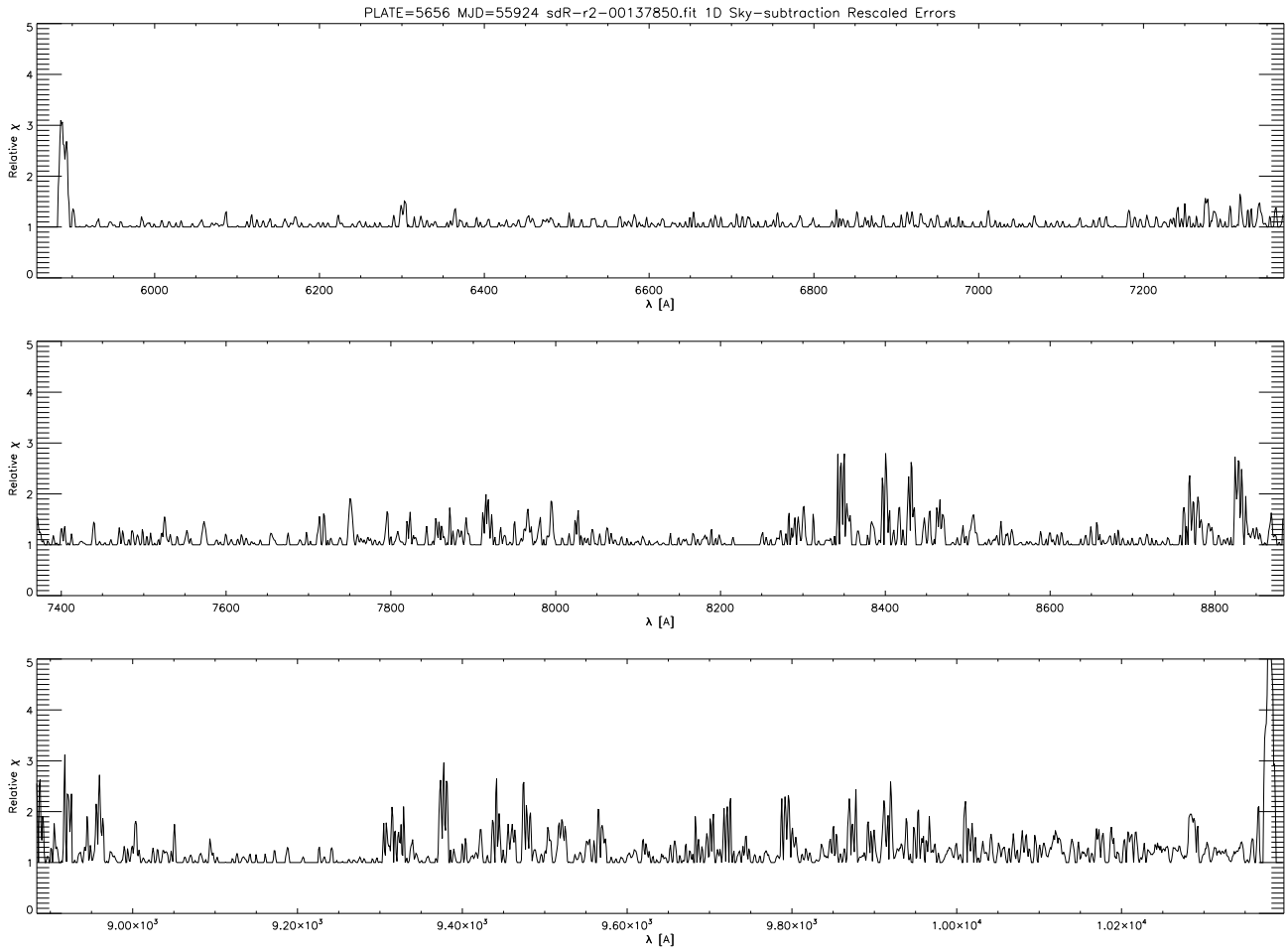

PLATE=5656 MJD=55924 Smooth superflat for sdR-r2-00137850.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

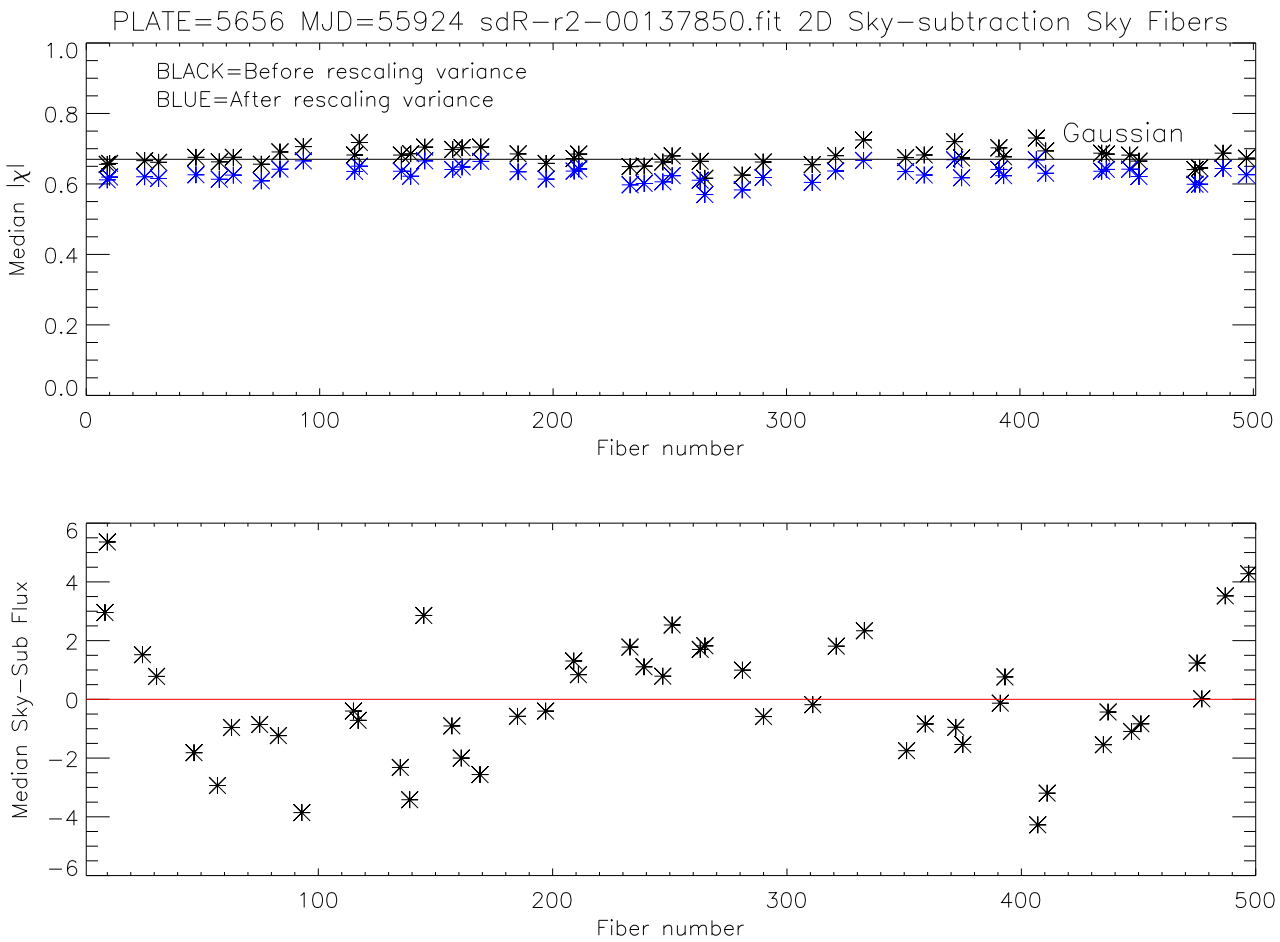

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

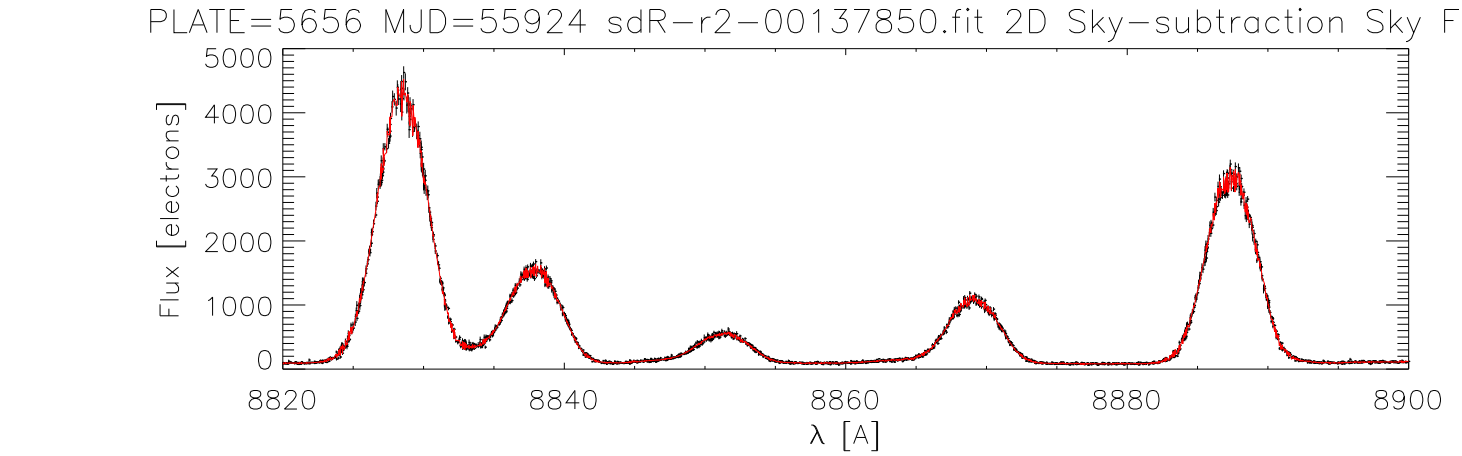

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

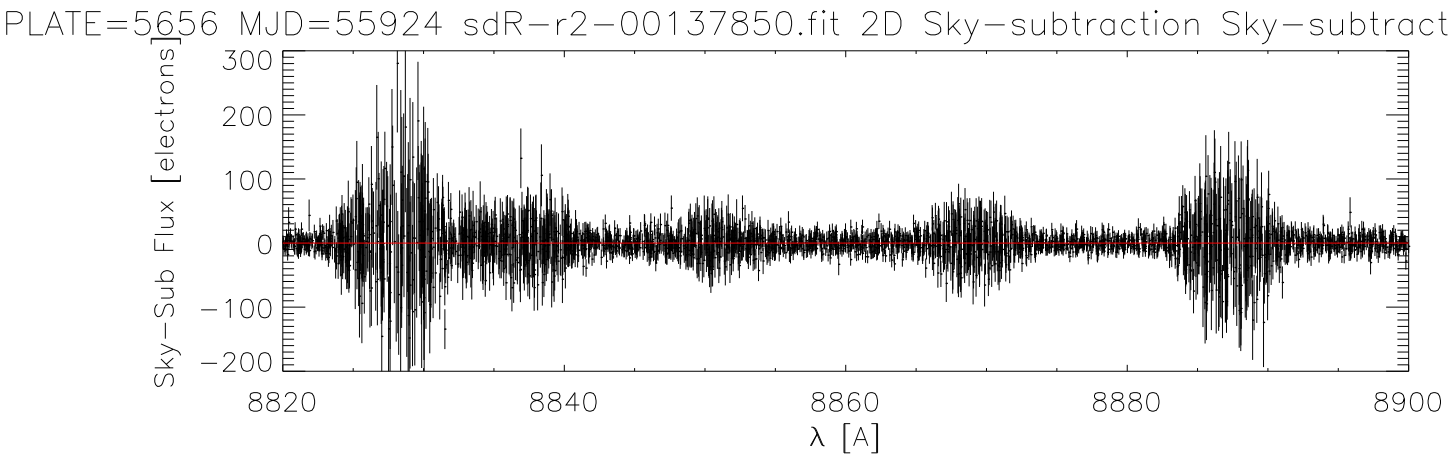

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

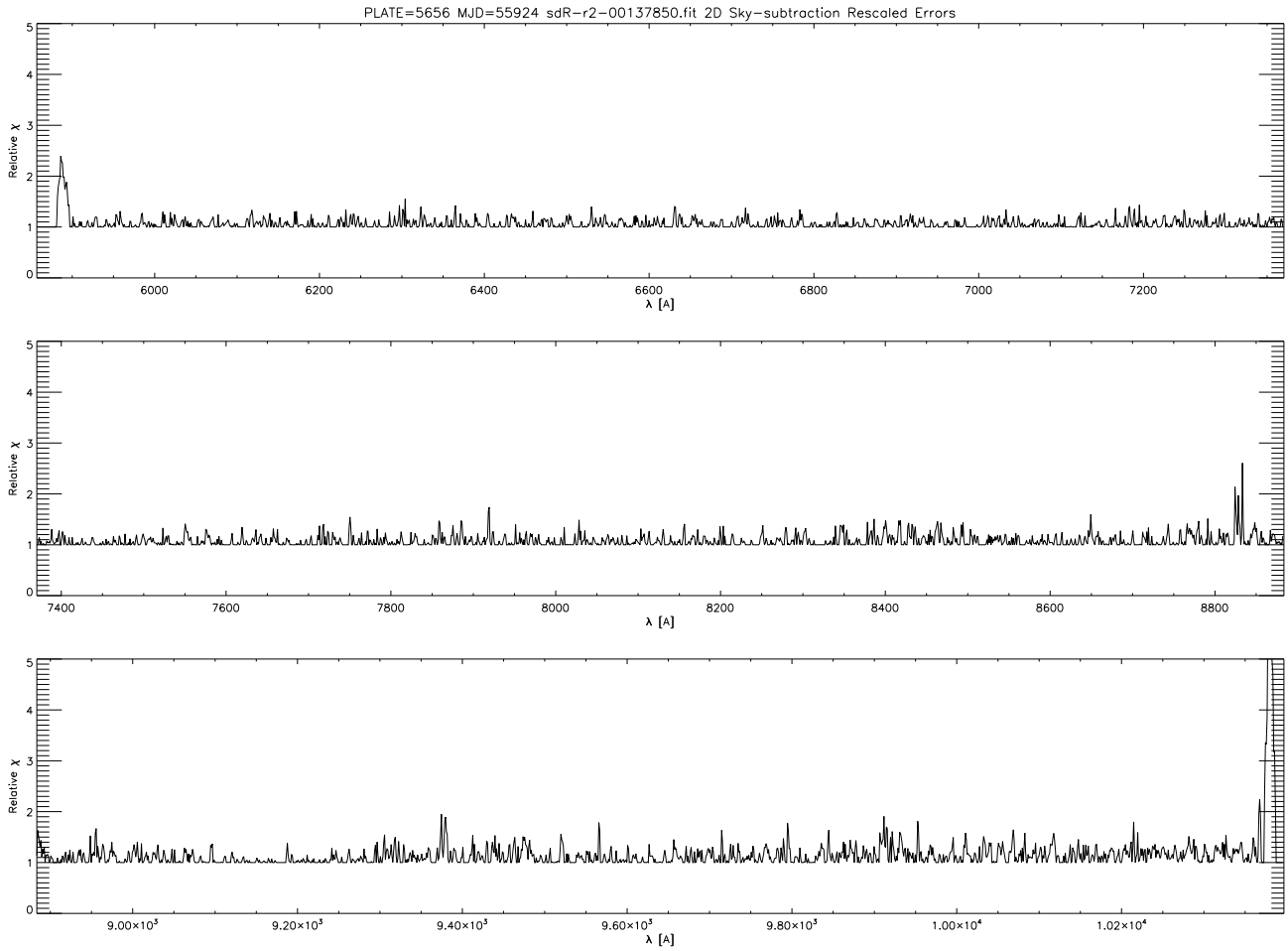


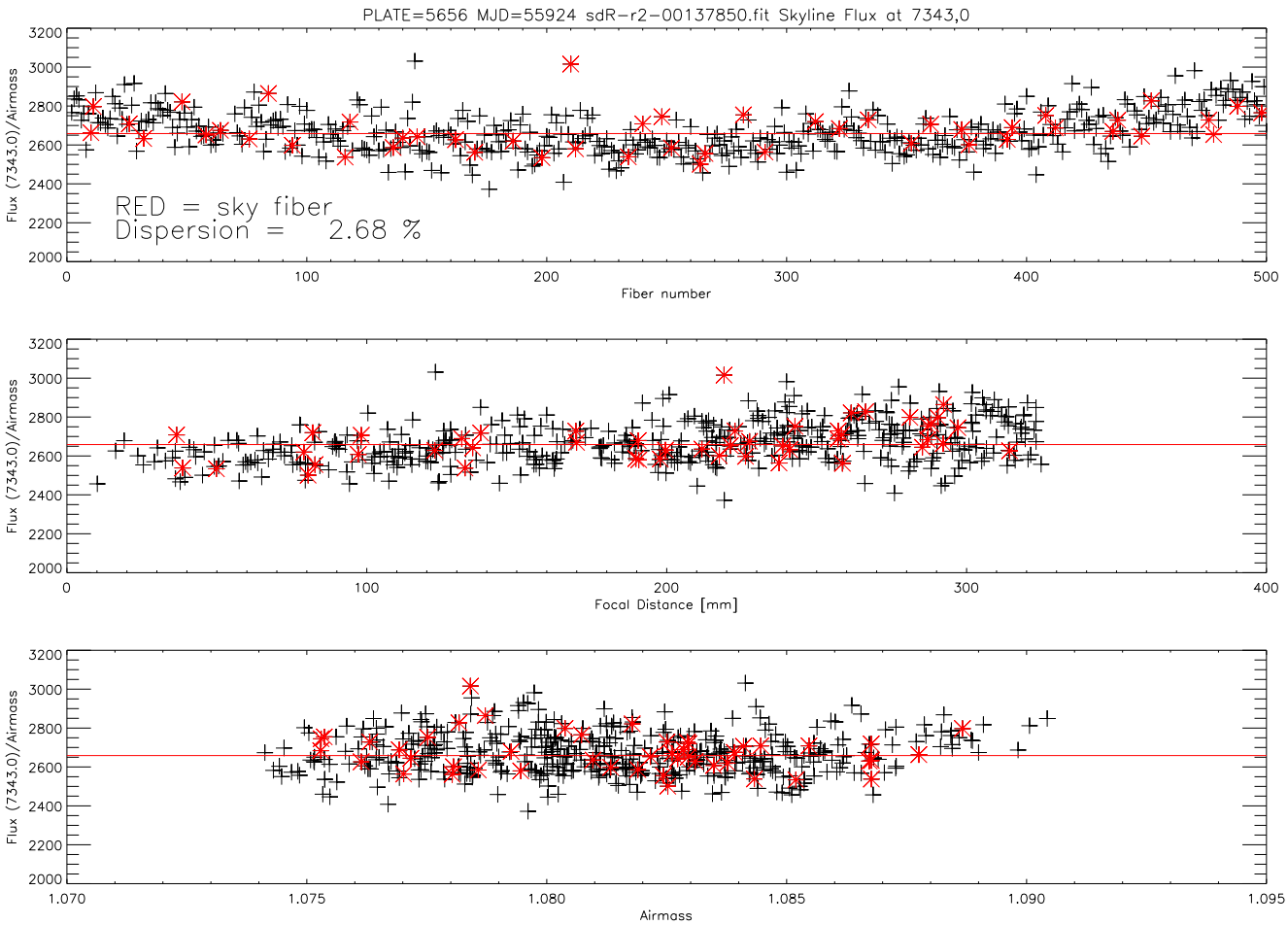

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

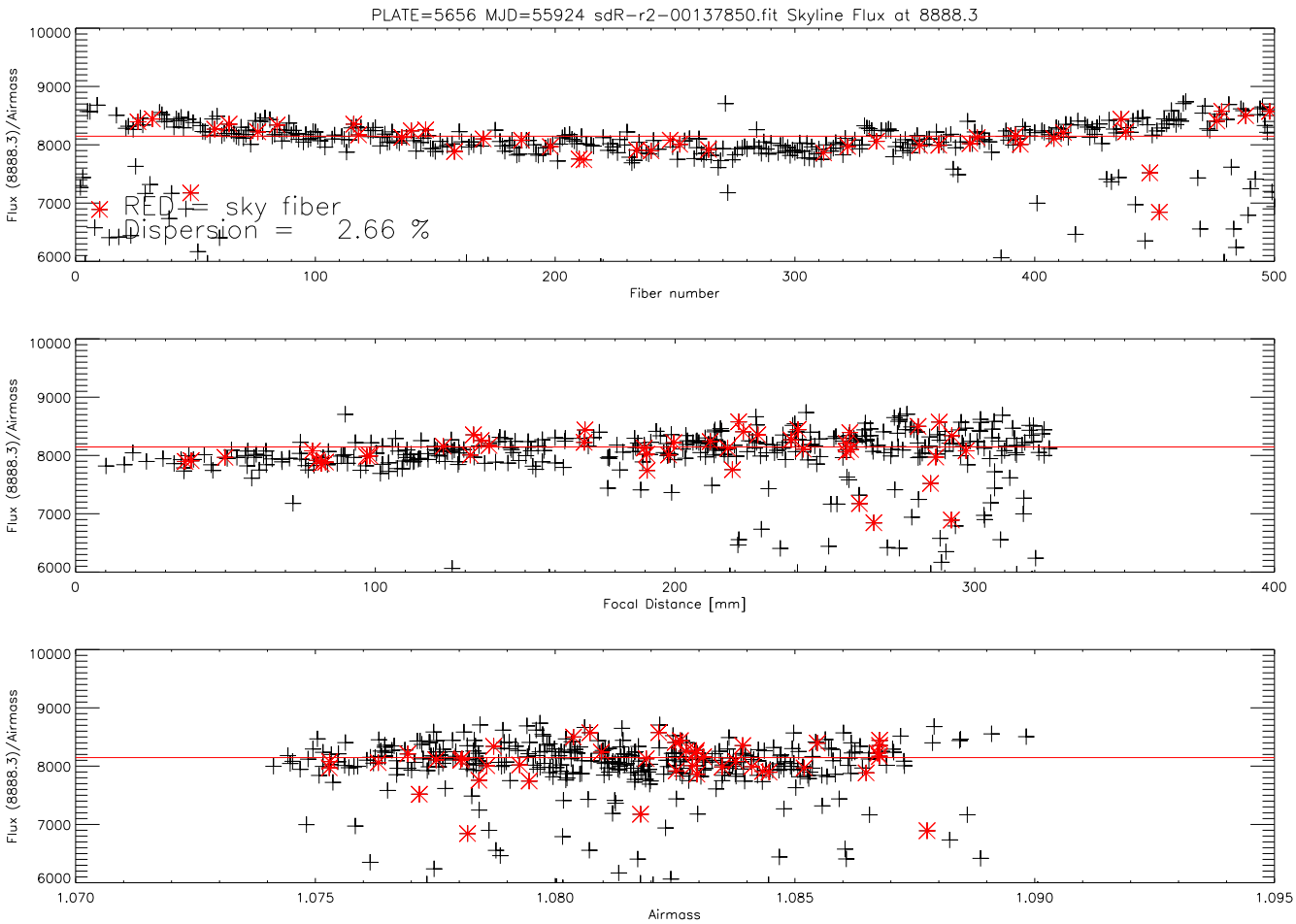

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

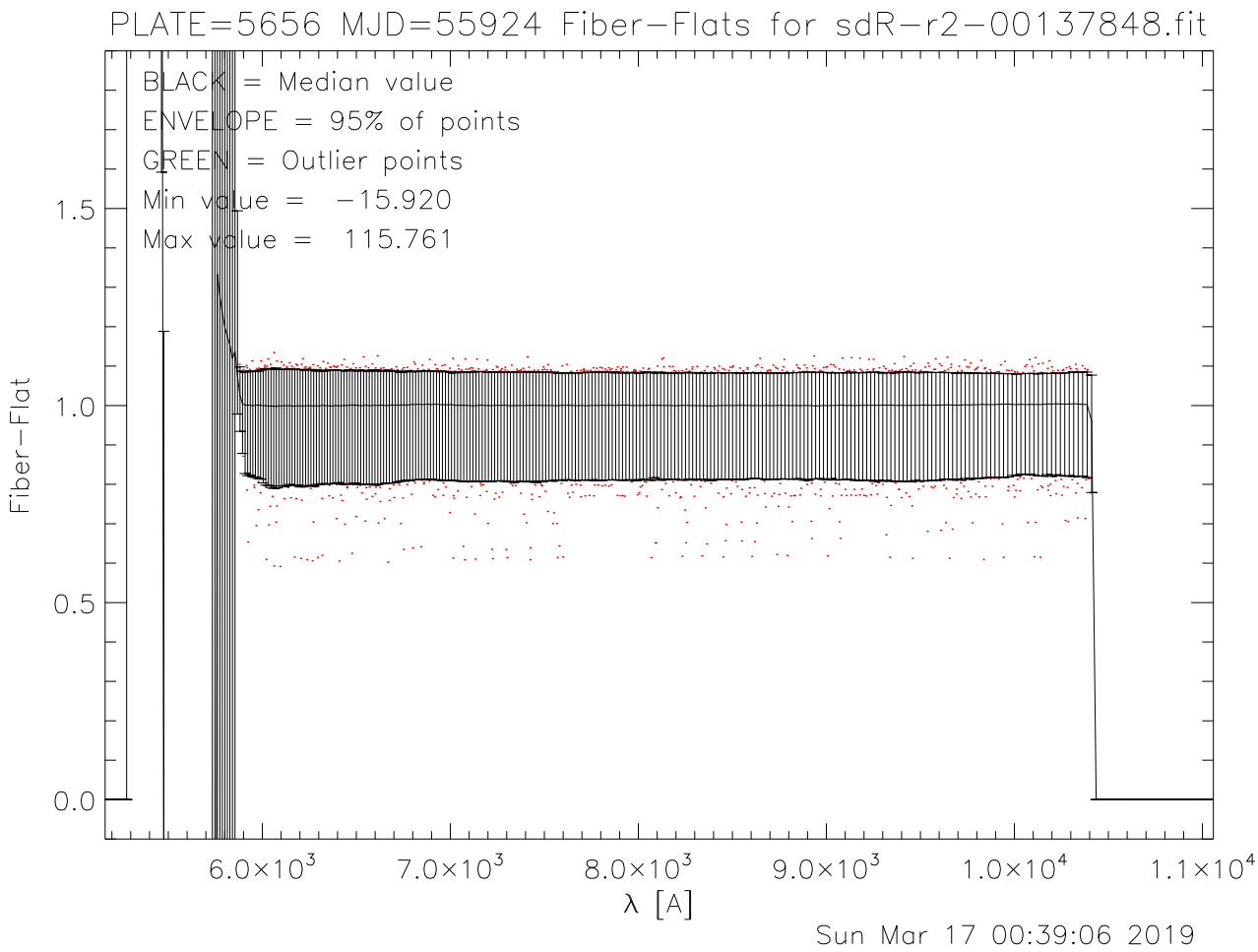

PLATE=5656 MJD=55924 sdR-r2-00137850.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

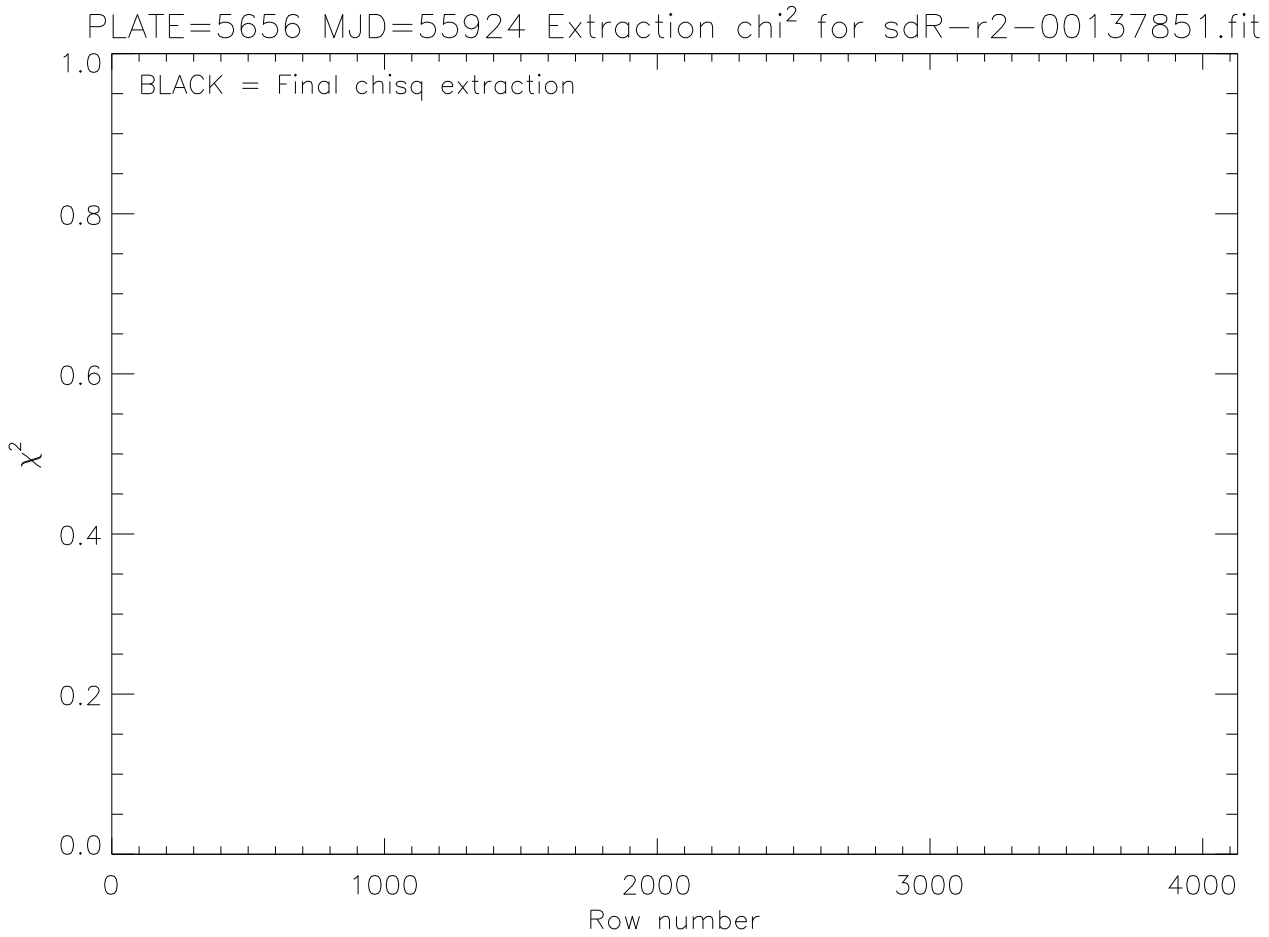
Number of sky fibers = 49

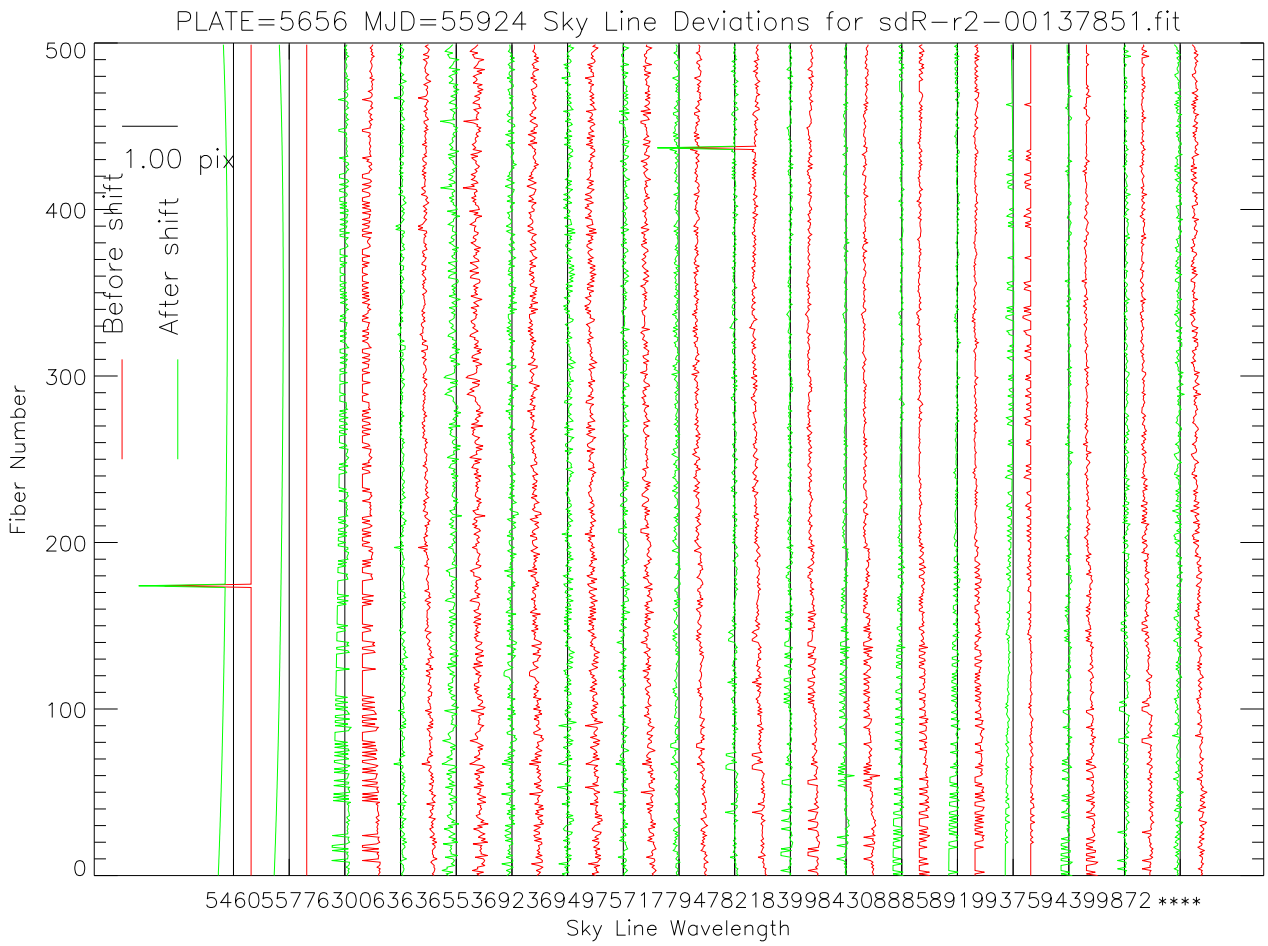


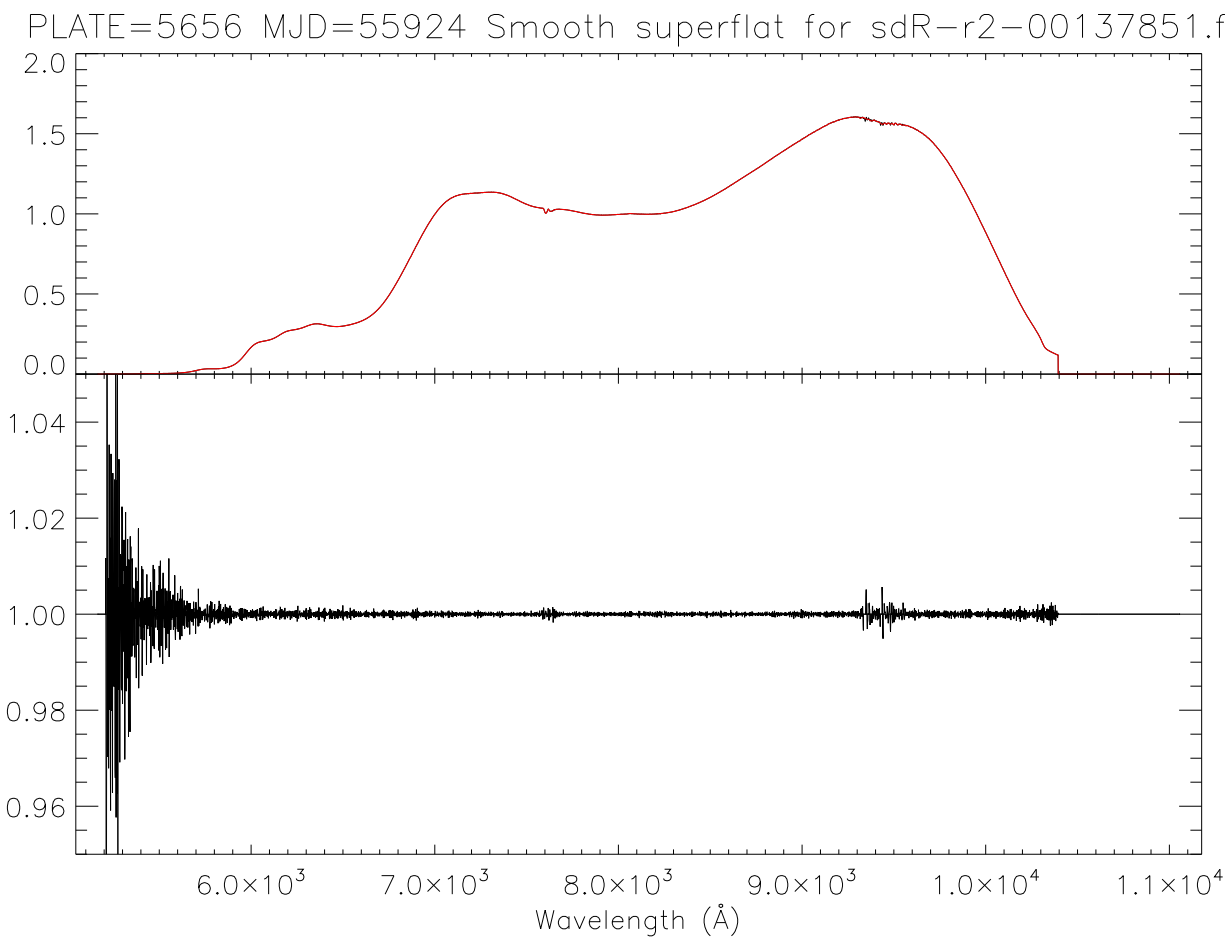

PLATE=5656 MJD=55924 sdR-r2-00137850.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.68 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

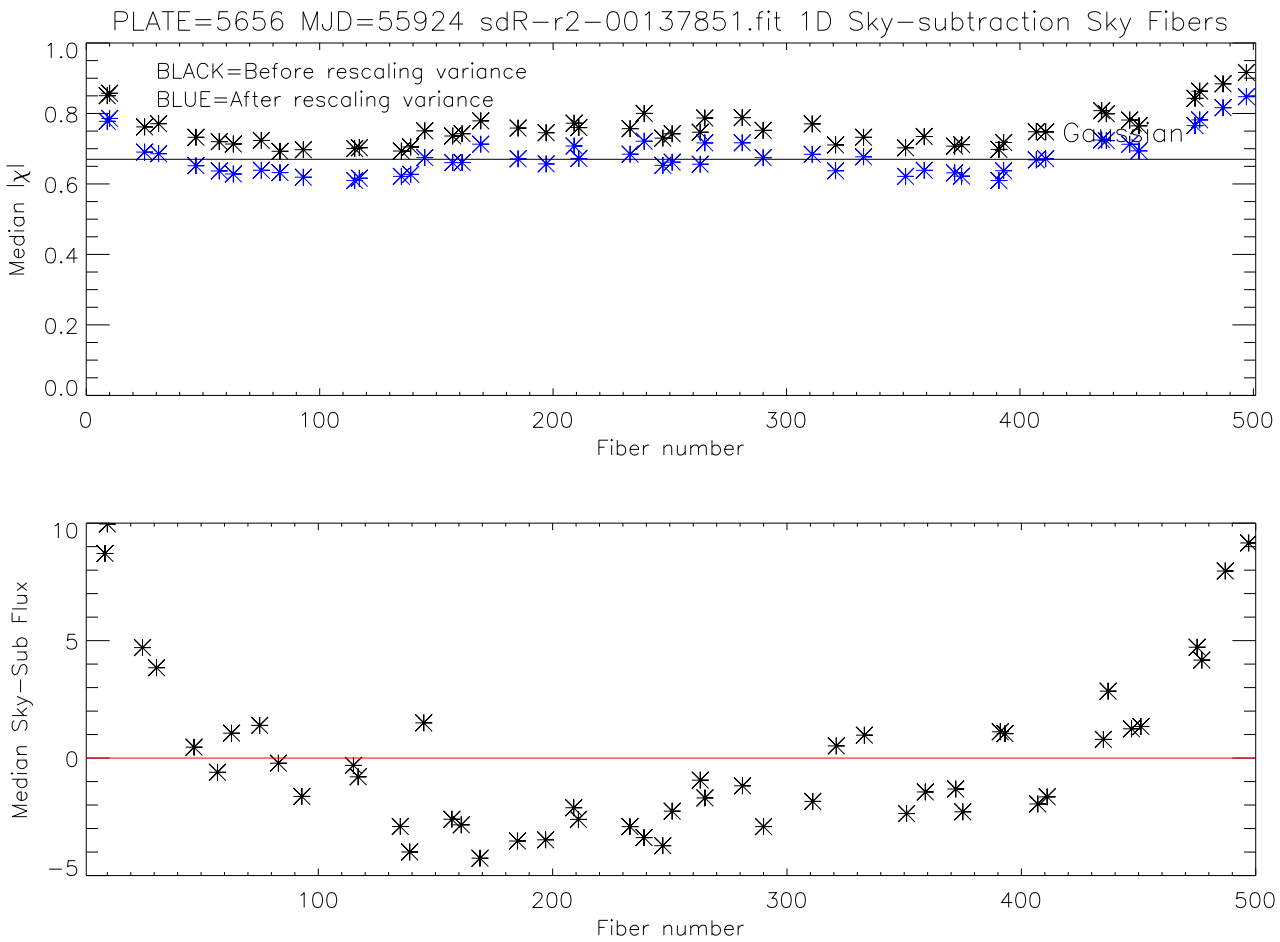

PLATE=5656 MJD=55924 sdR-r2-00137850.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.66 %
Focal Distance [mm]
Airmass

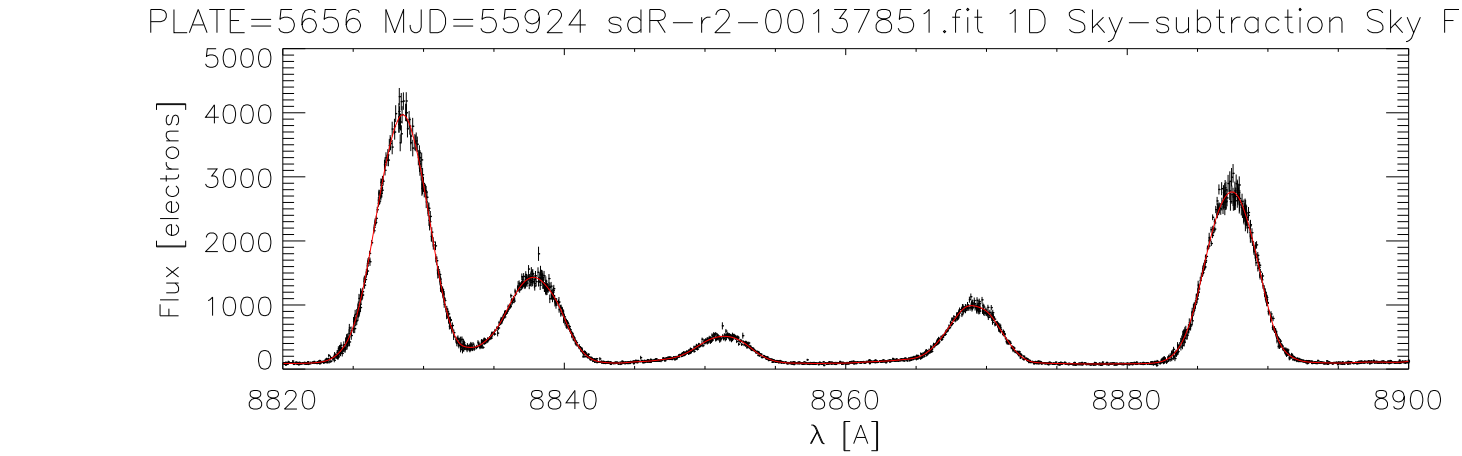

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r2−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −15.920
Max value = 115.761
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:39:06 2019

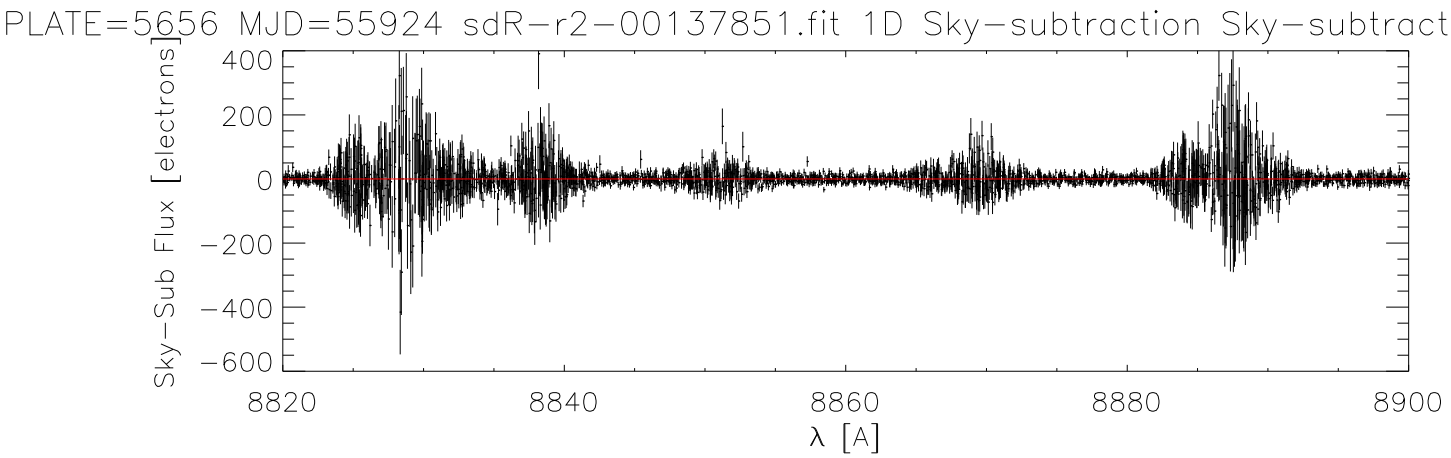

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r2−00137851.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r2-00137851.fit
500
400
300
200
100
0
Fiber Number
Before shift
After shift
1.00 pix
5460557763006363655369236949757177947821839984308885891993759439987 2 ****
Sky Line Wavelength

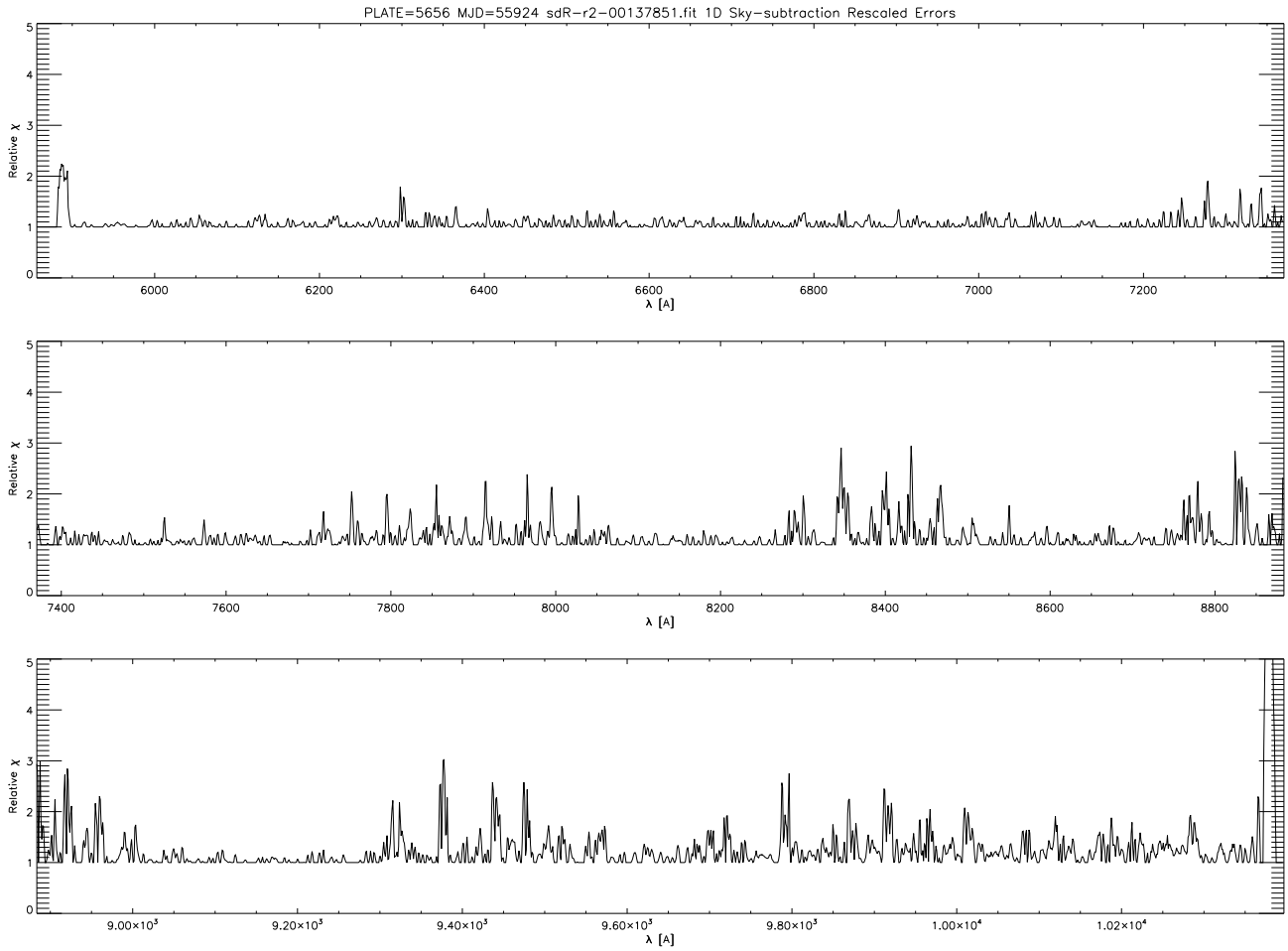

PLATE=5656 MJD=55924 Smooth superflat for sdR-r2-00137851.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

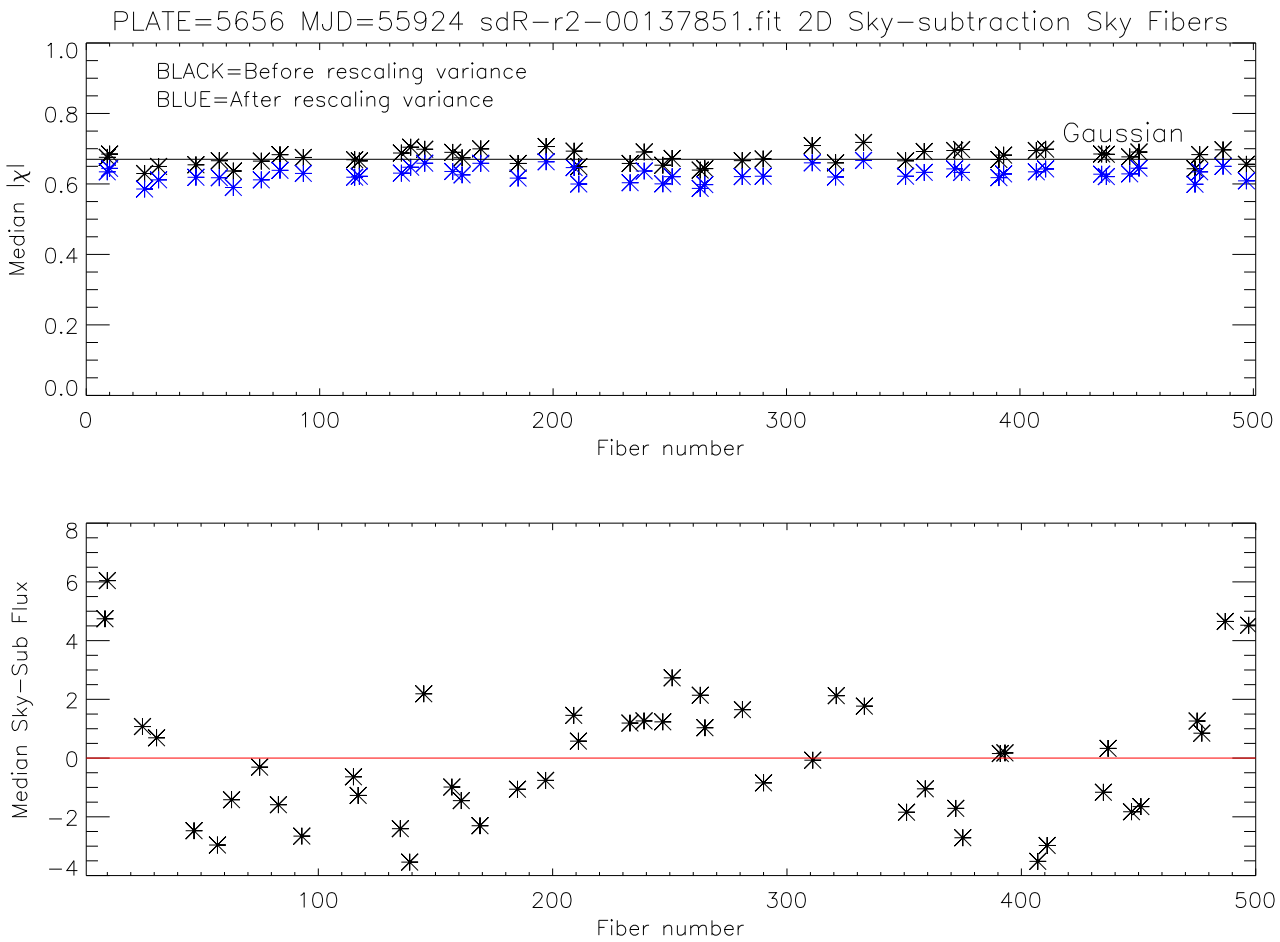

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

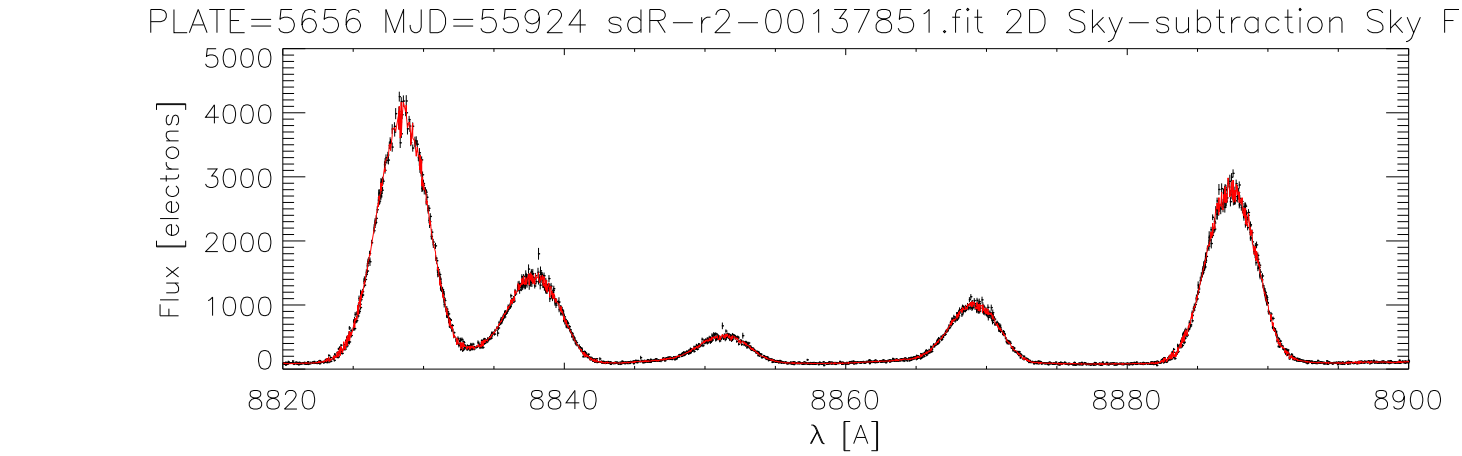

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

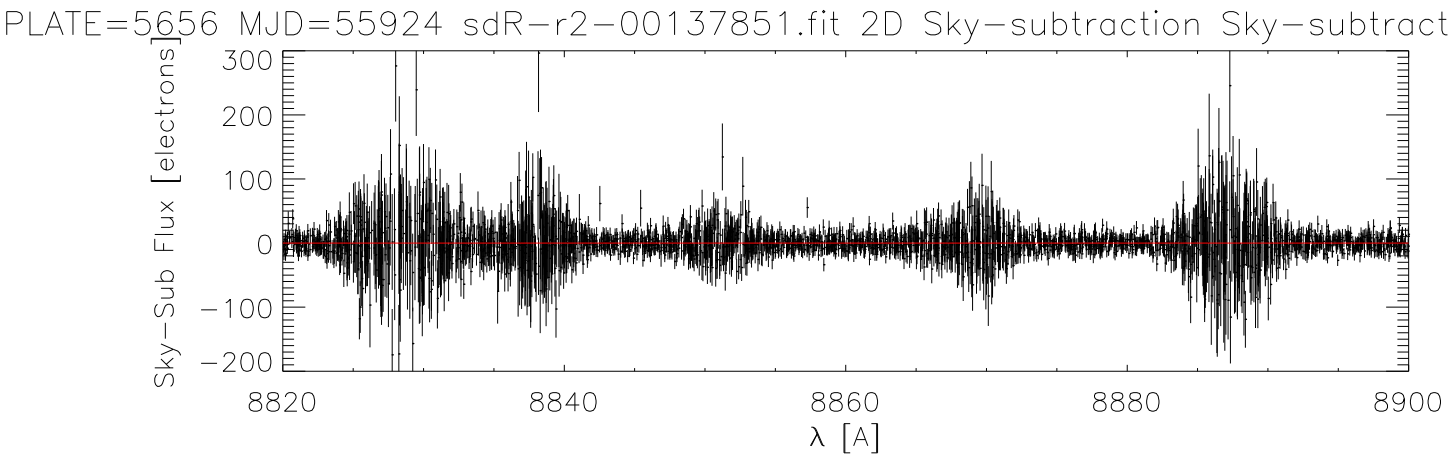

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

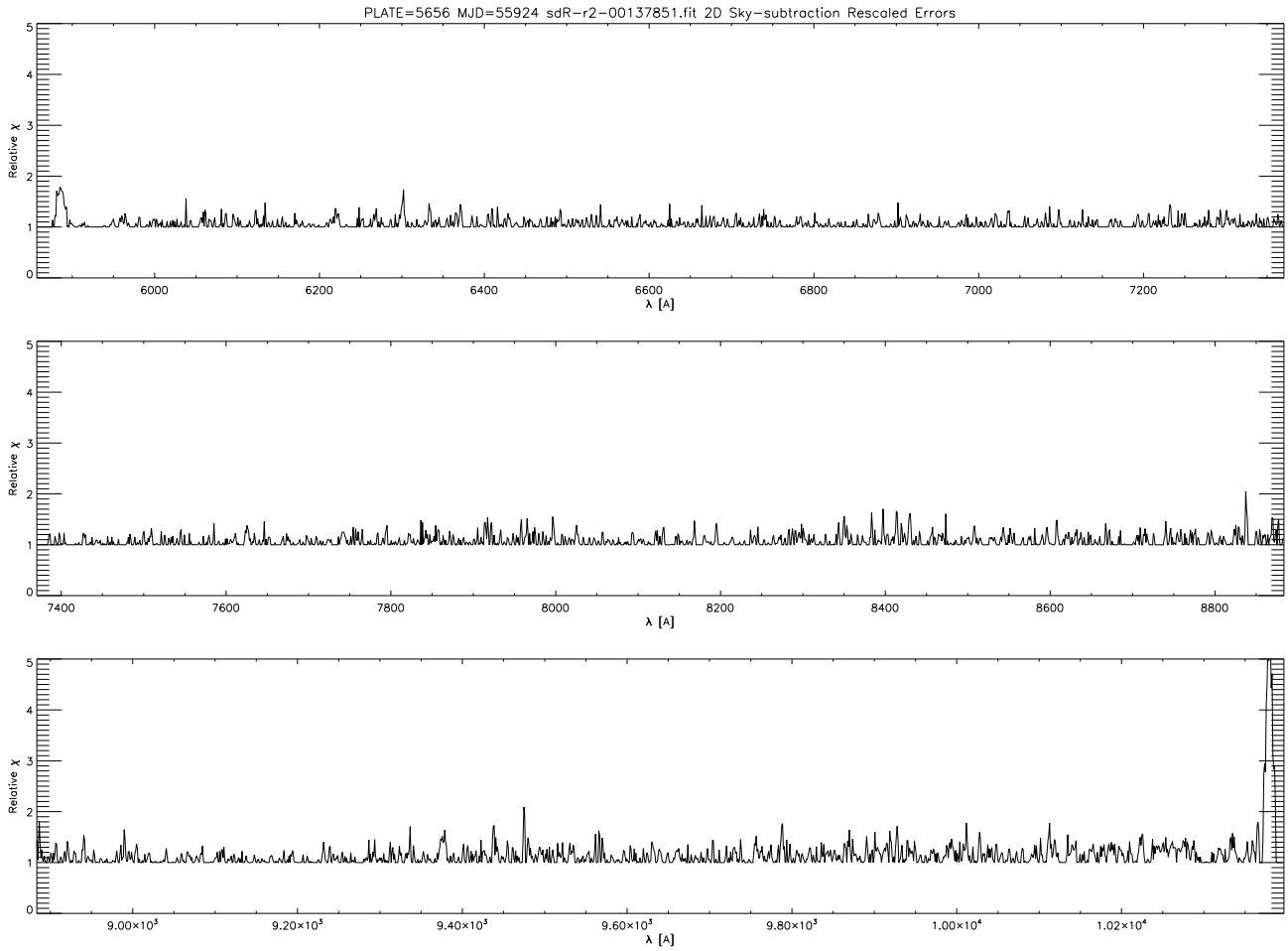


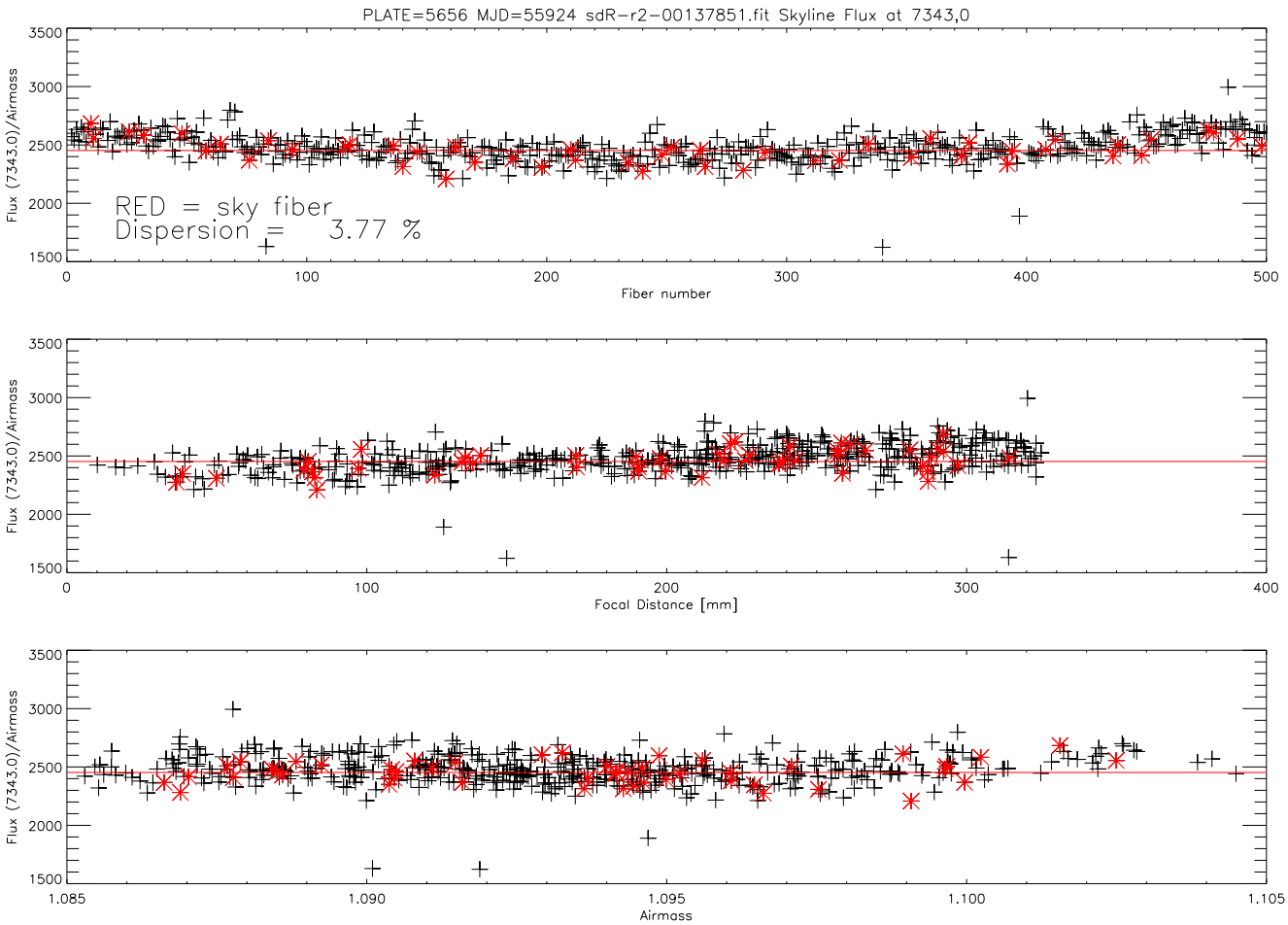

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

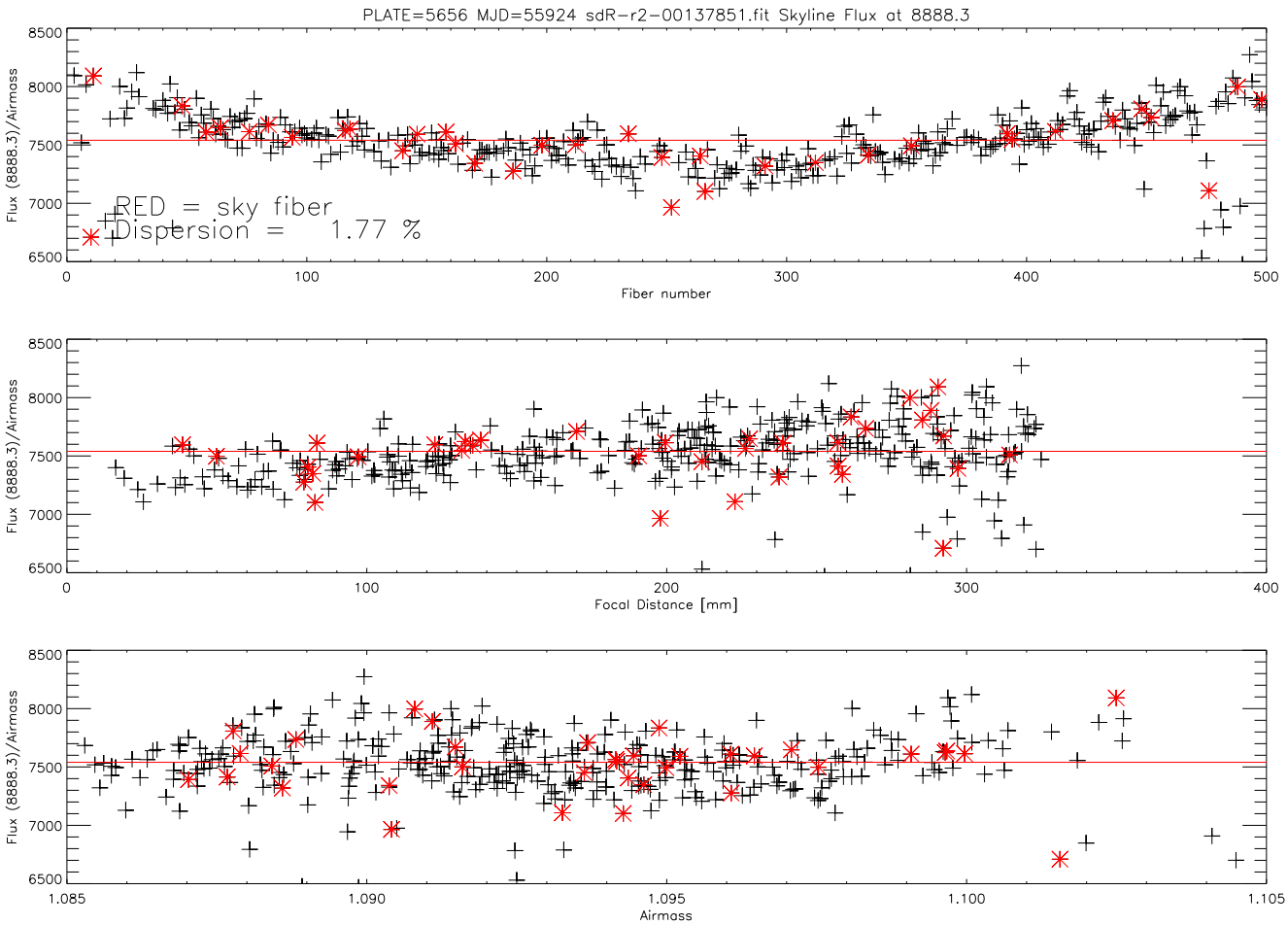

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

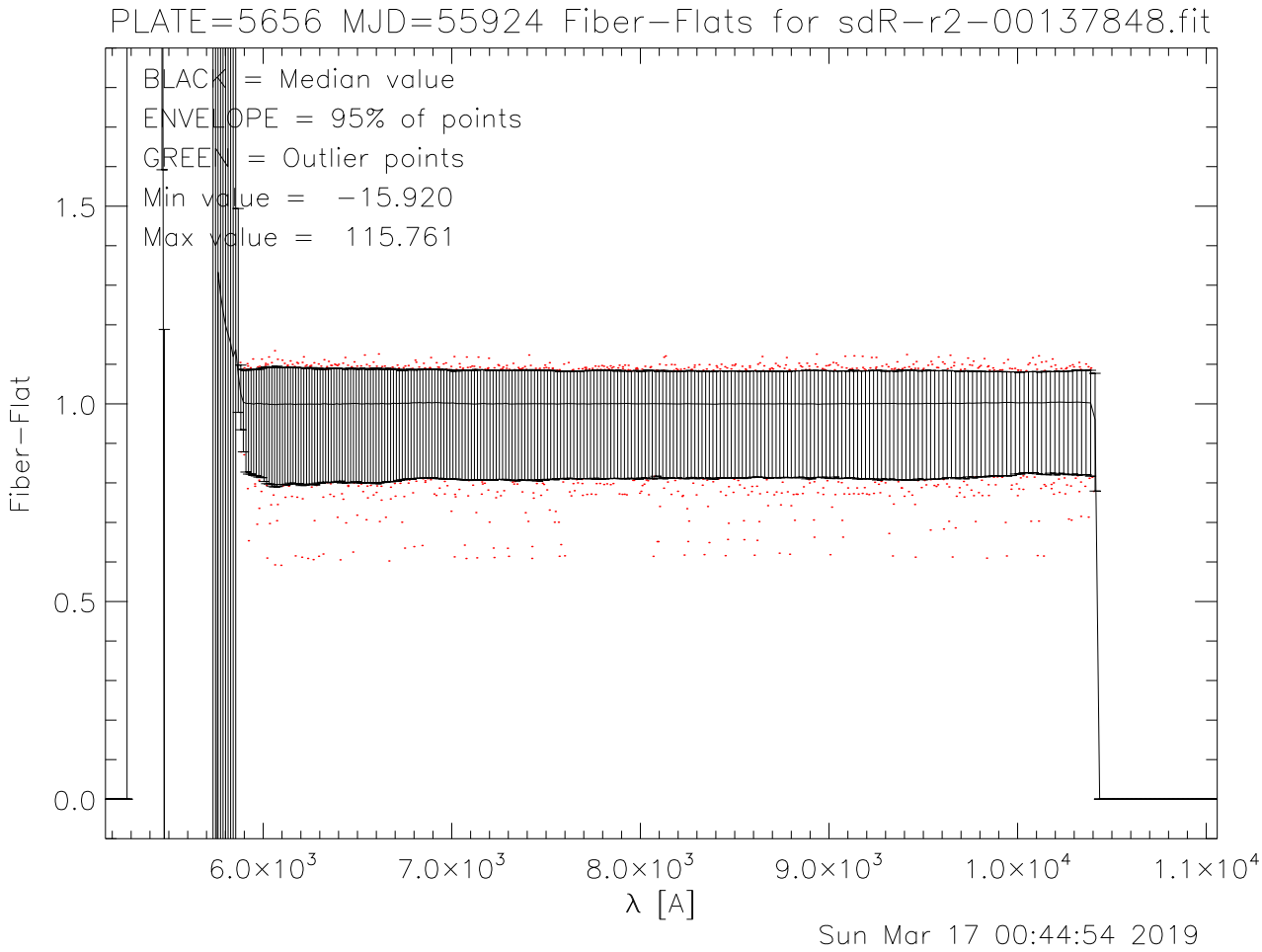

PLATE=5656 MJD=55924 sdR-r2-00137851.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

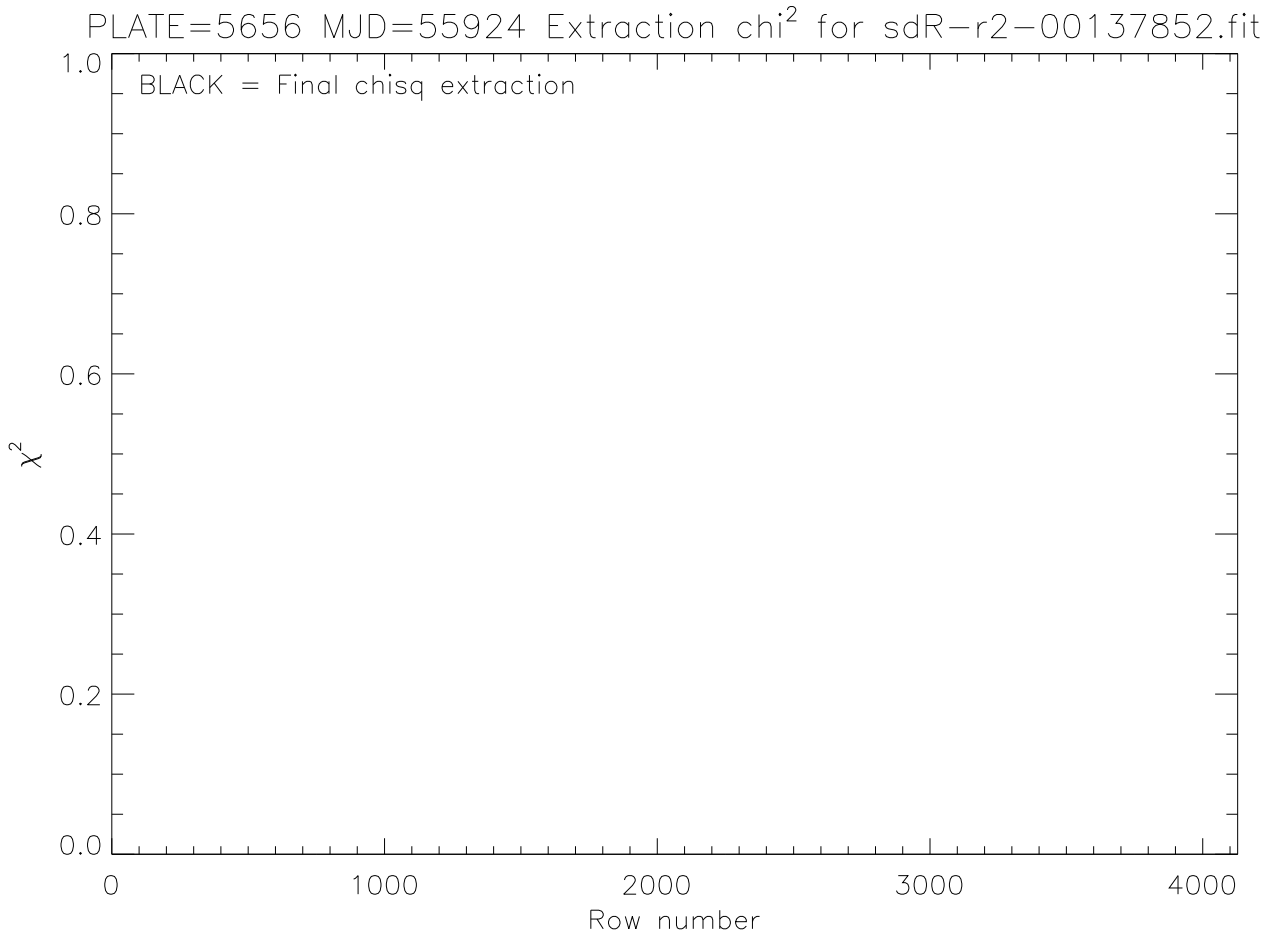
Number of sky fibers = 49

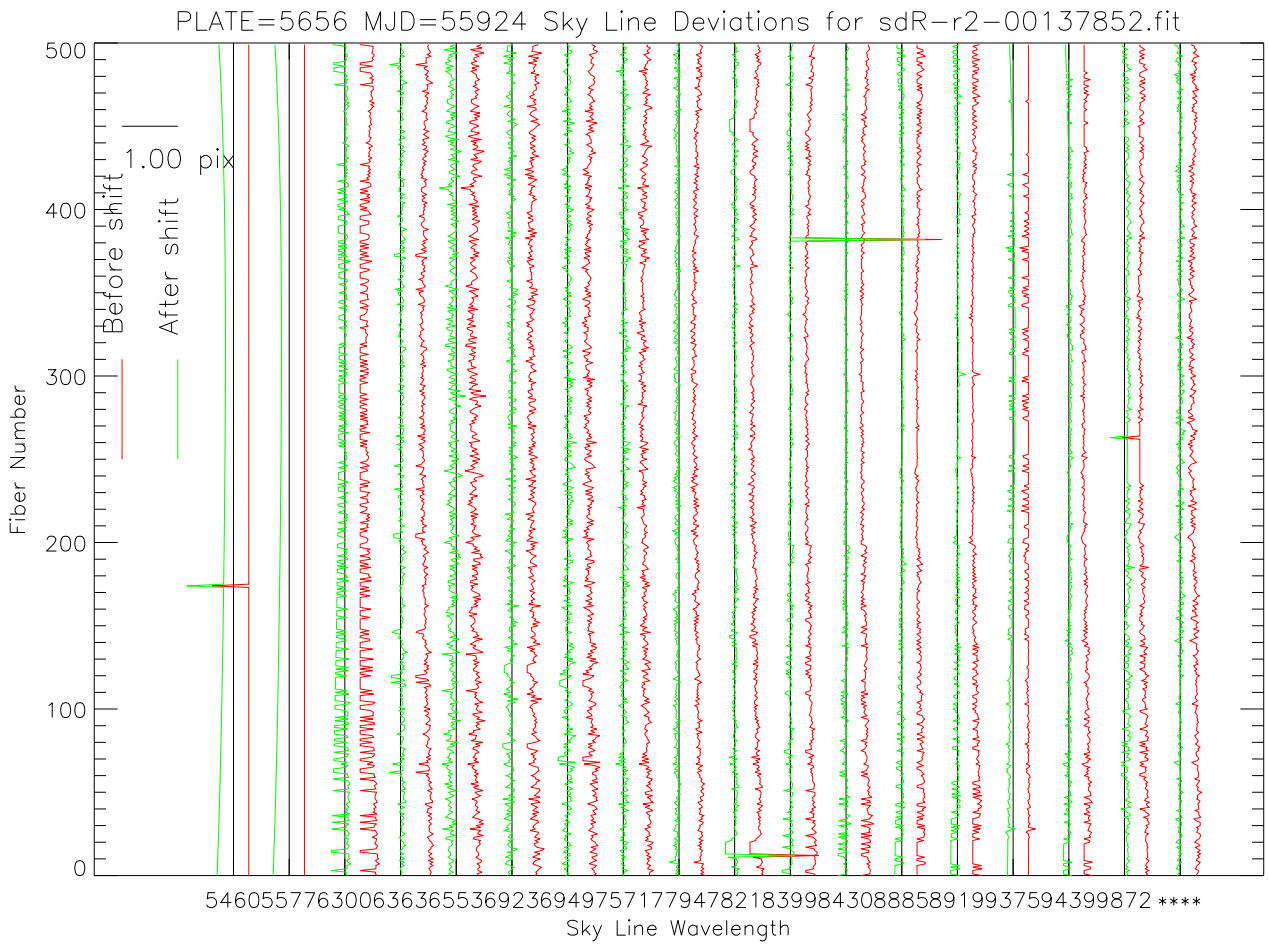


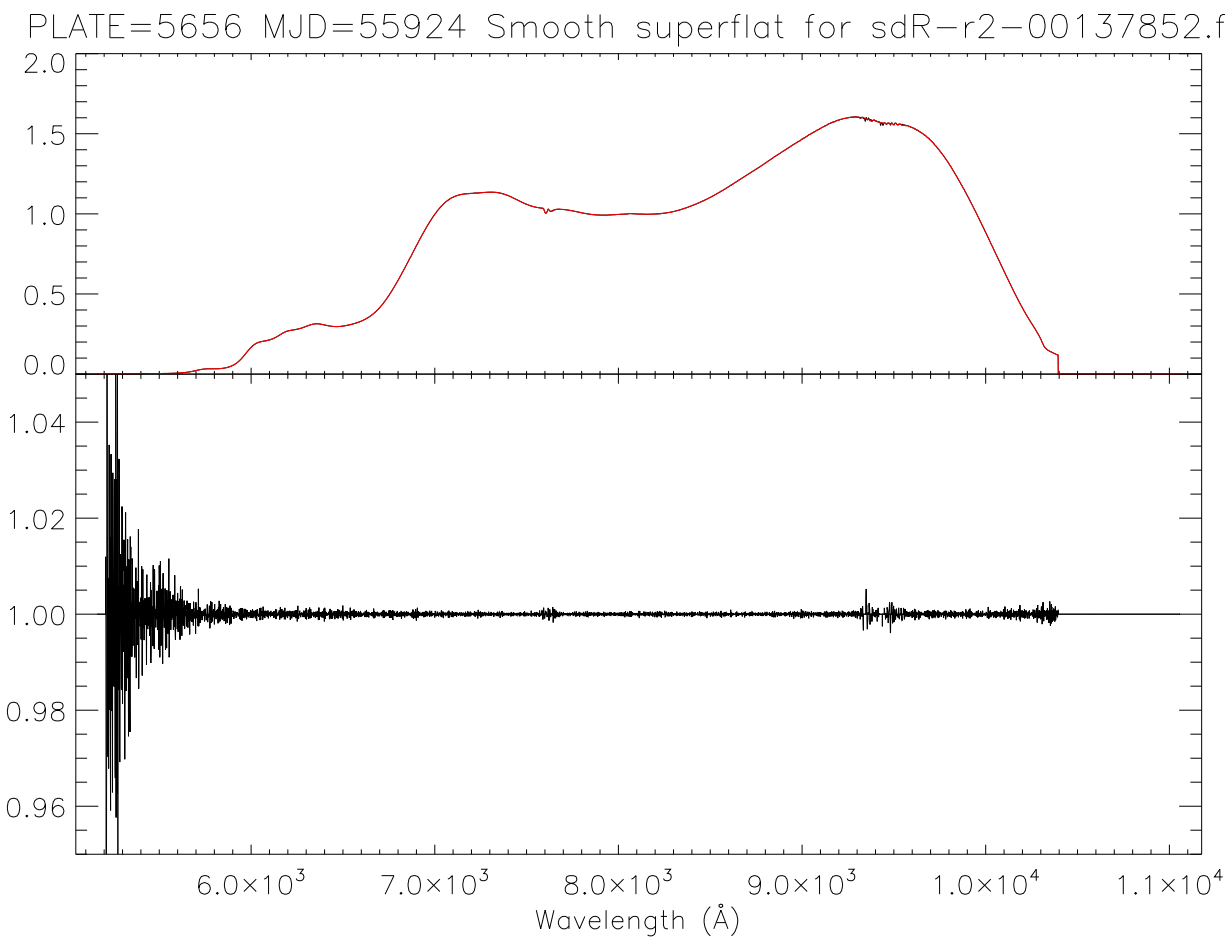

PLATE=5656 MJD=55924 sdR-r2-00137851.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.77 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

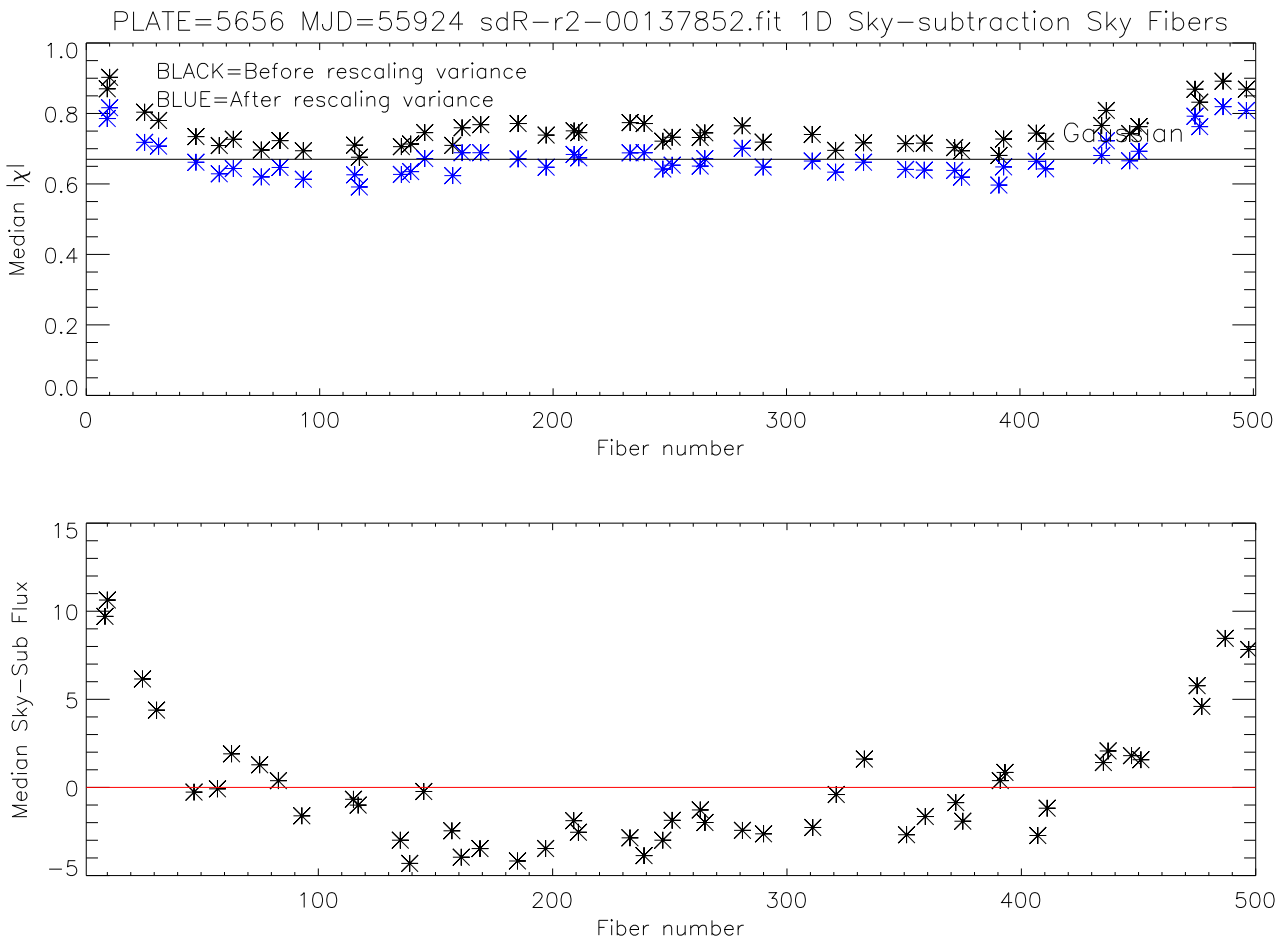

PLATE=5656 MJD=55924 sdR-r2-00137851.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

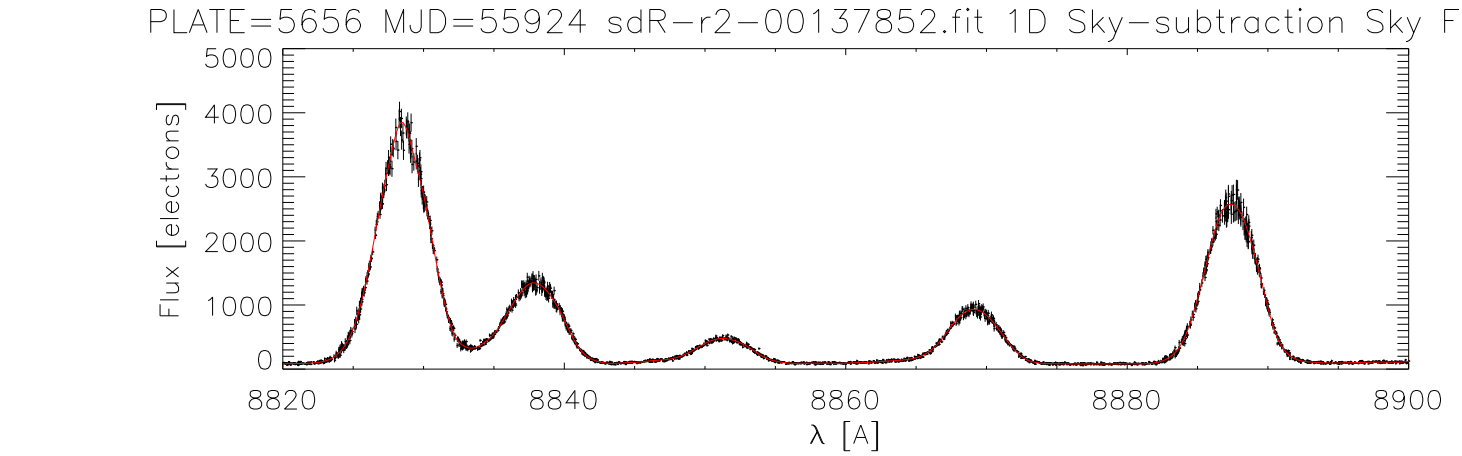

PLATE=5656 MJD=55924 Fiber−Flats for sdR−r2−00137848.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −15.920
Max value = 115.761
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun Mar 17 00:44:54 2019

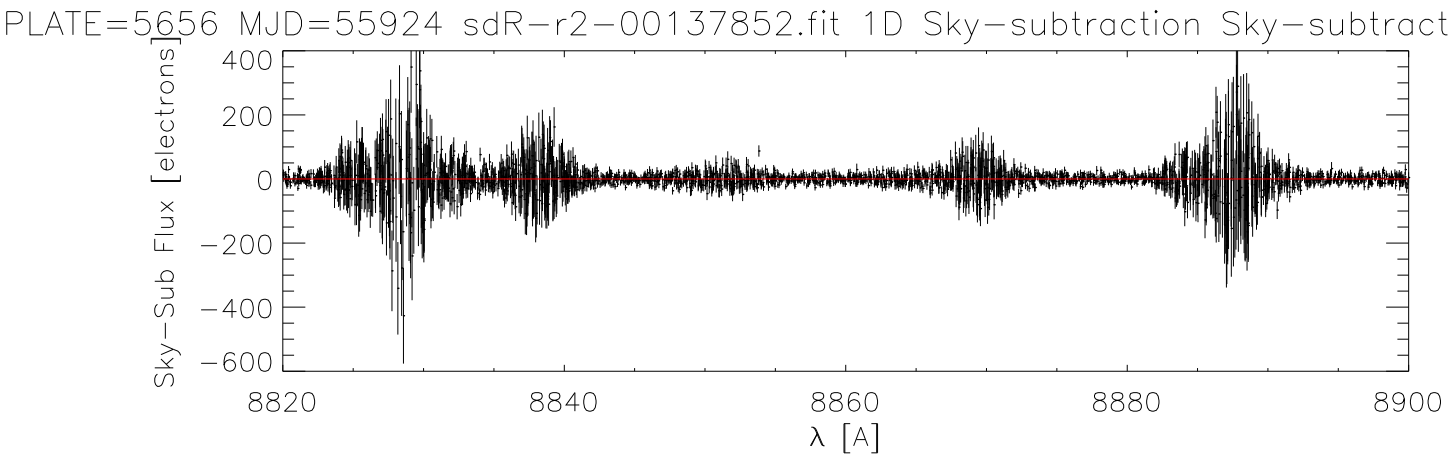

PLATE=5656 MJD=55924 Extraction chi^2 for sdR−r2−00137852.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5656 MJD=55924 Sky Line Deviations for sdR-r2-00137852.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460557763006363655369236949757177947821839984308885891993759439987 2 ****
Sky Line Wavelength

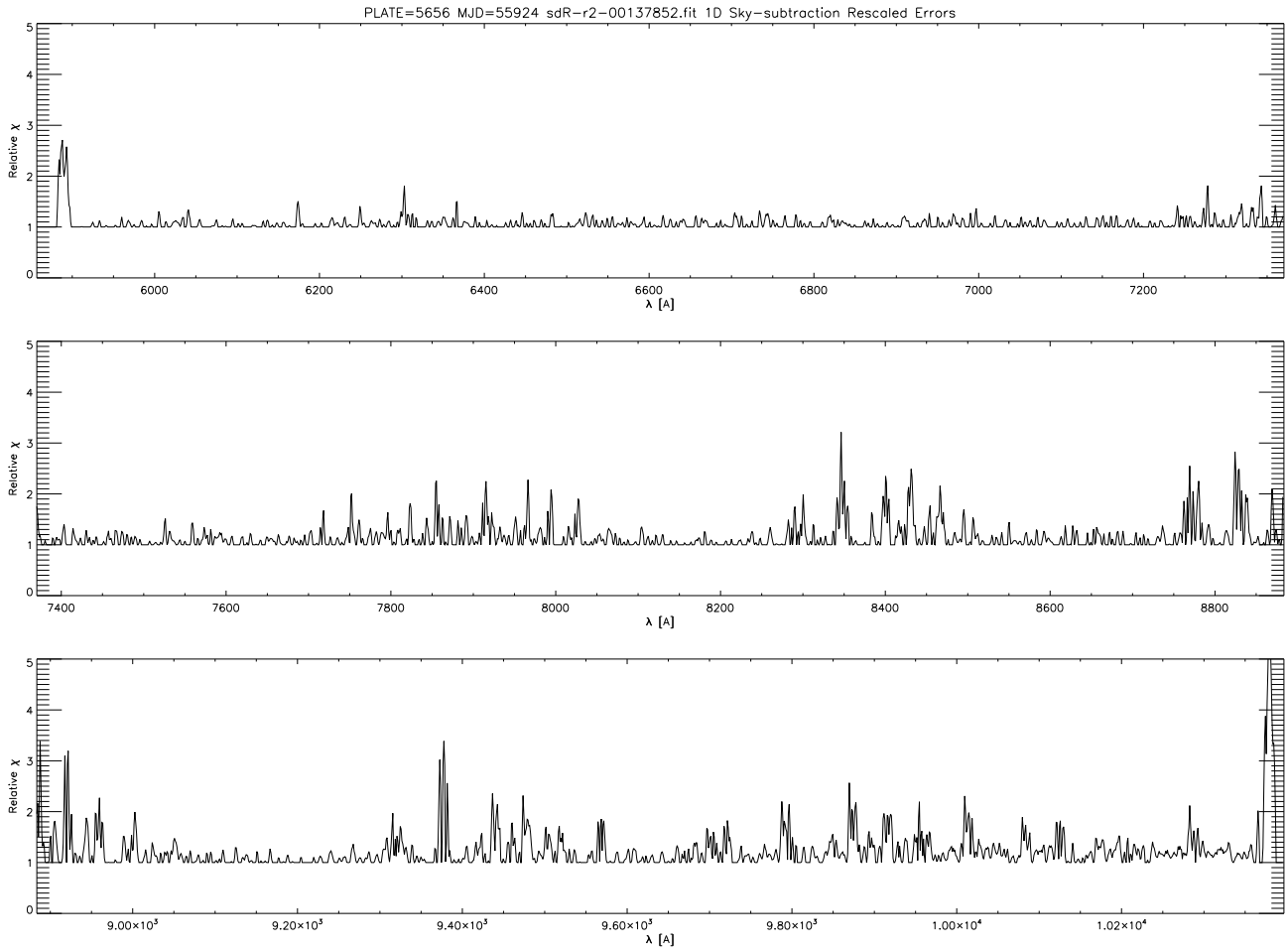

PLATE=5656 MJD=55924 Smooth superflat for sdR-r2-00137852.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

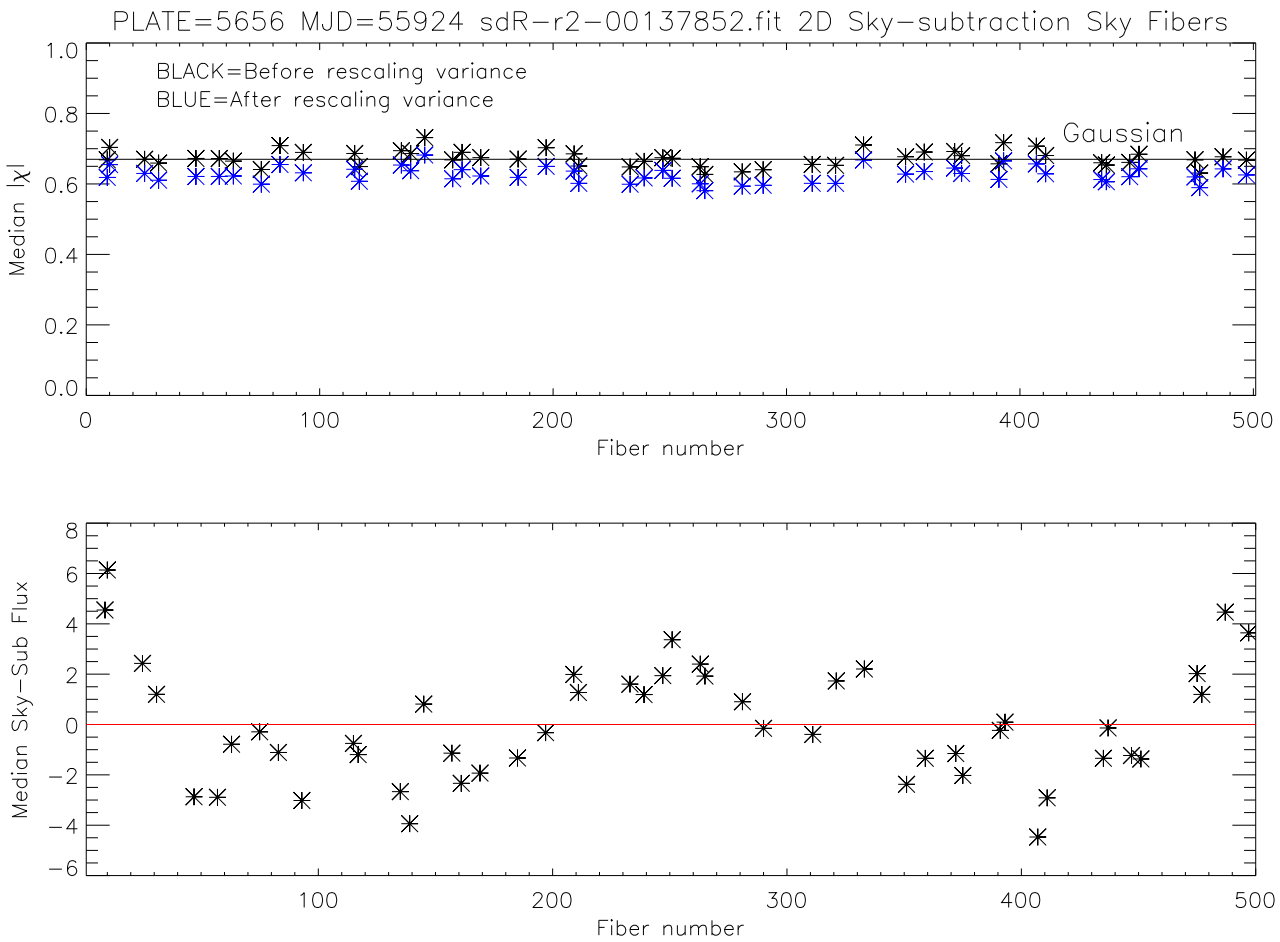

PLATE=5656 MJD=55924 sdR-r2-00137852.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

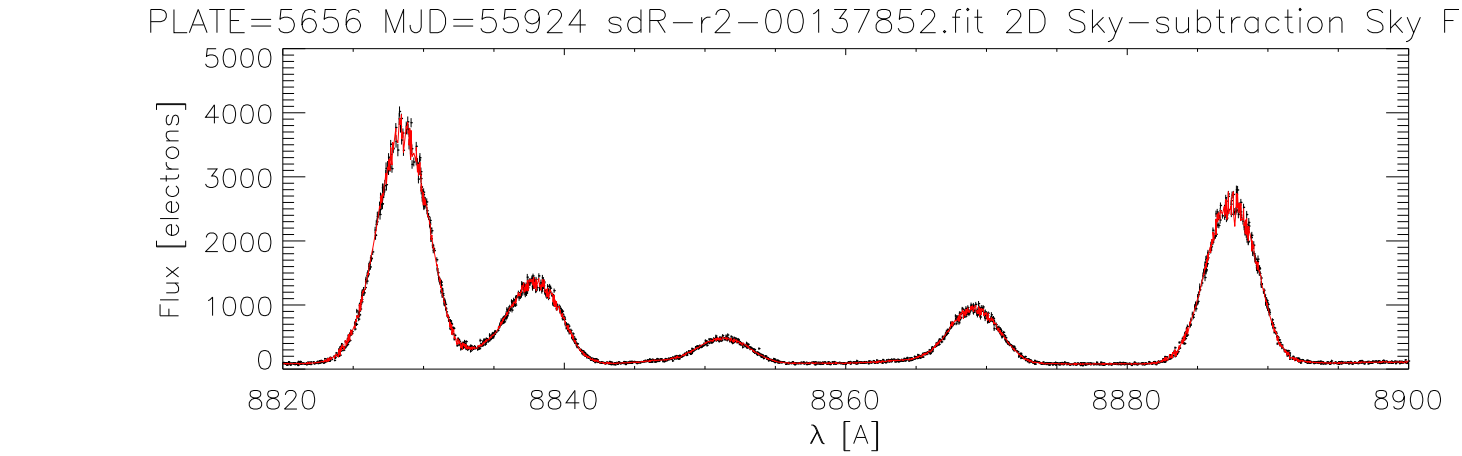

PLATE=5656 MJD=55924 sdR-r2-00137852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

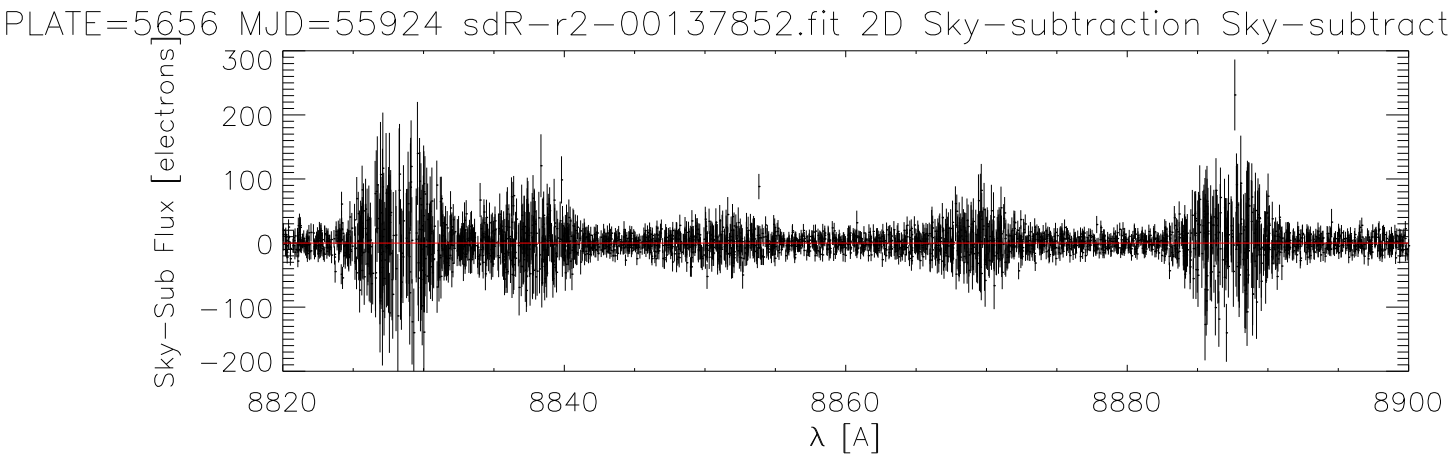

PLATE=5656 MJD=55924 sdR-r2-00137852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

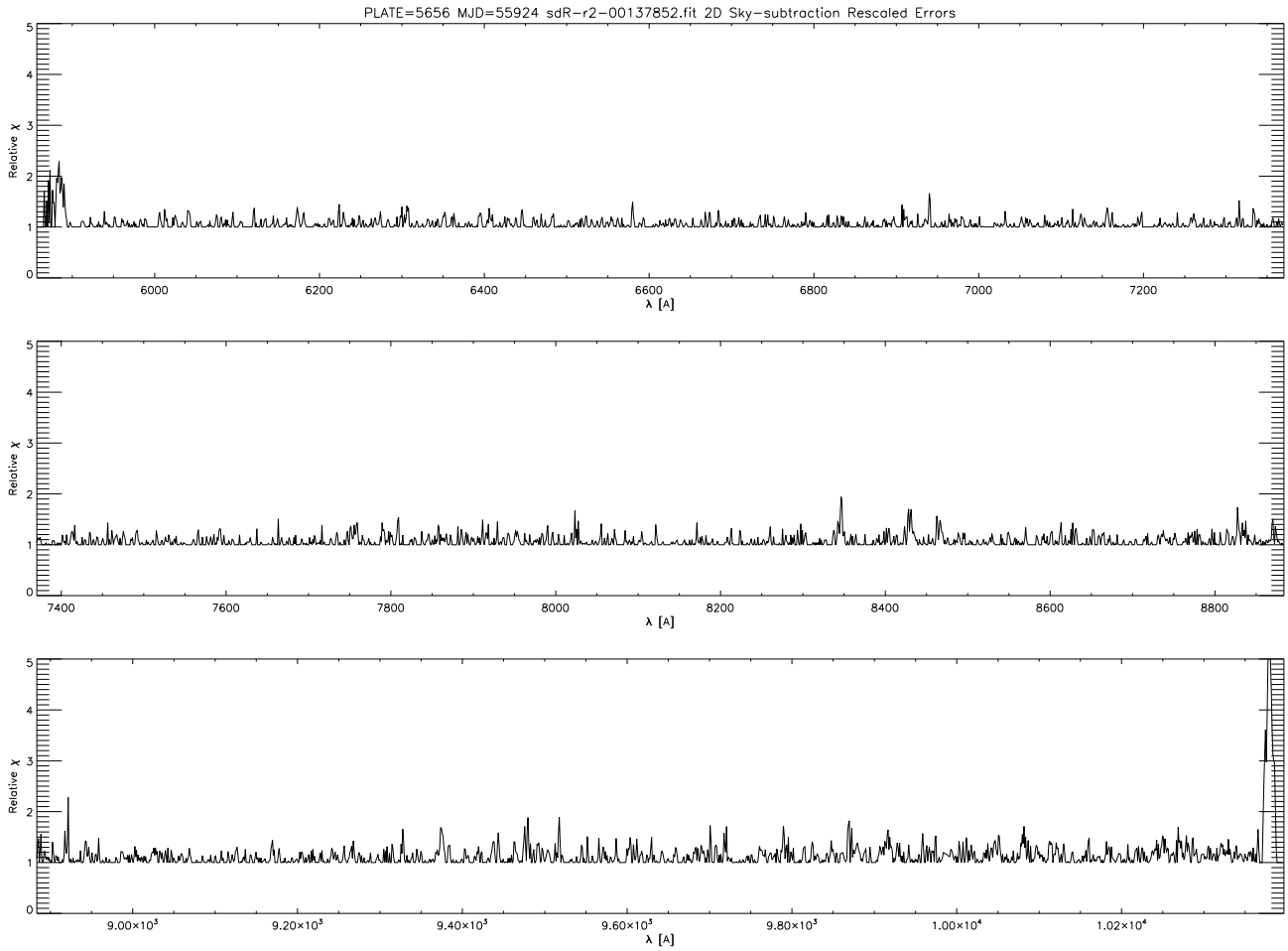


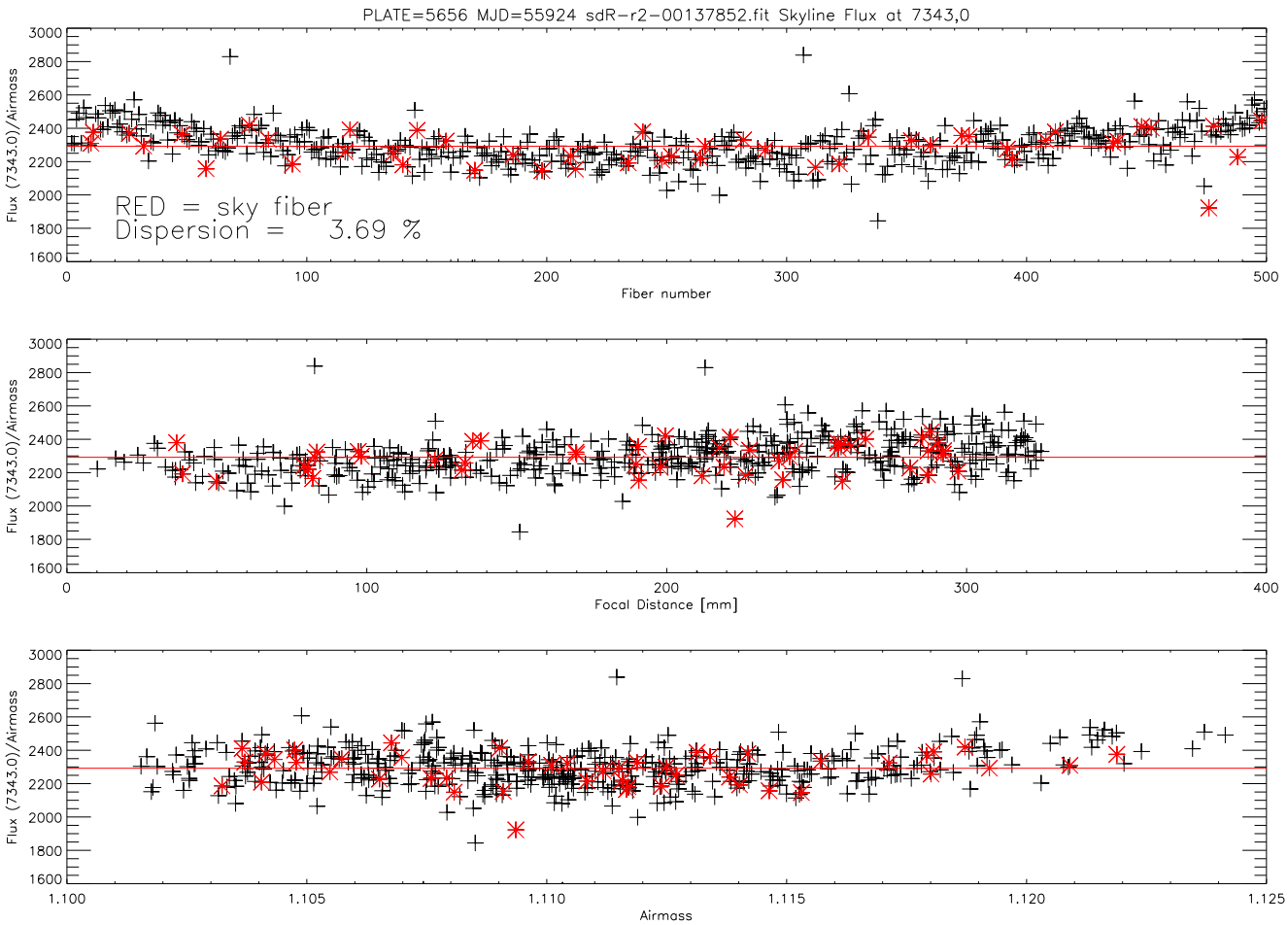

PLATE=5656 MJD=55924 sdR-r2-00137852.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

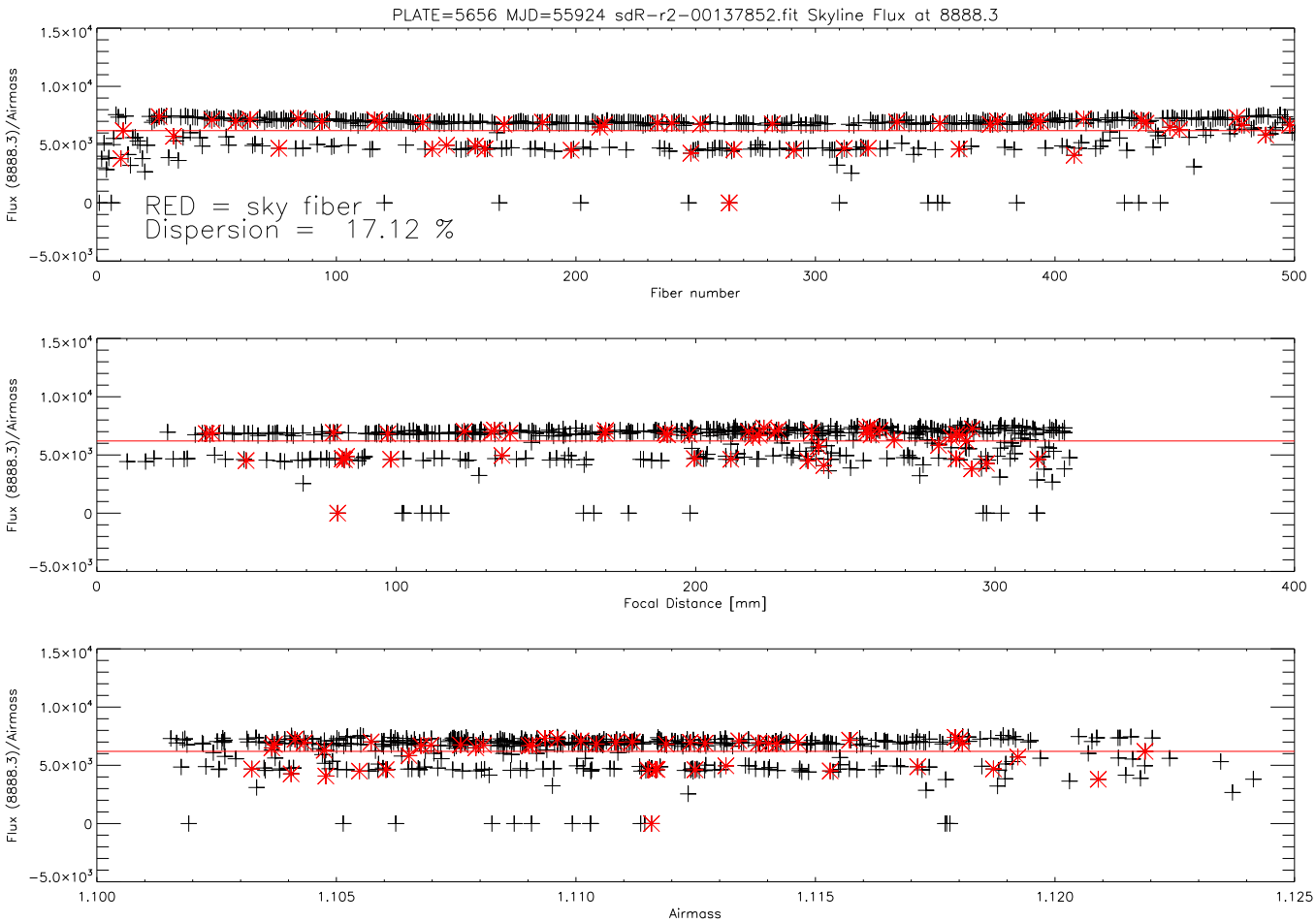

PLATE=5656 MJD=55924 sdR-r2-00137852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=5656 MJD=55924 sdR-r2-00137852.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 = 49




PLATE=5656 MJD=55924 sdR-r2-00137852.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.69 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=5656 MJD=55924 sdR-r2-00137852.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 17.12 %
Fiber number
Focal Distance [mm]
Airmass