

SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

1500

2000

2500

3000

3500

4000

$z = 1.454$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

150

100

50

0

4000

5000

6000

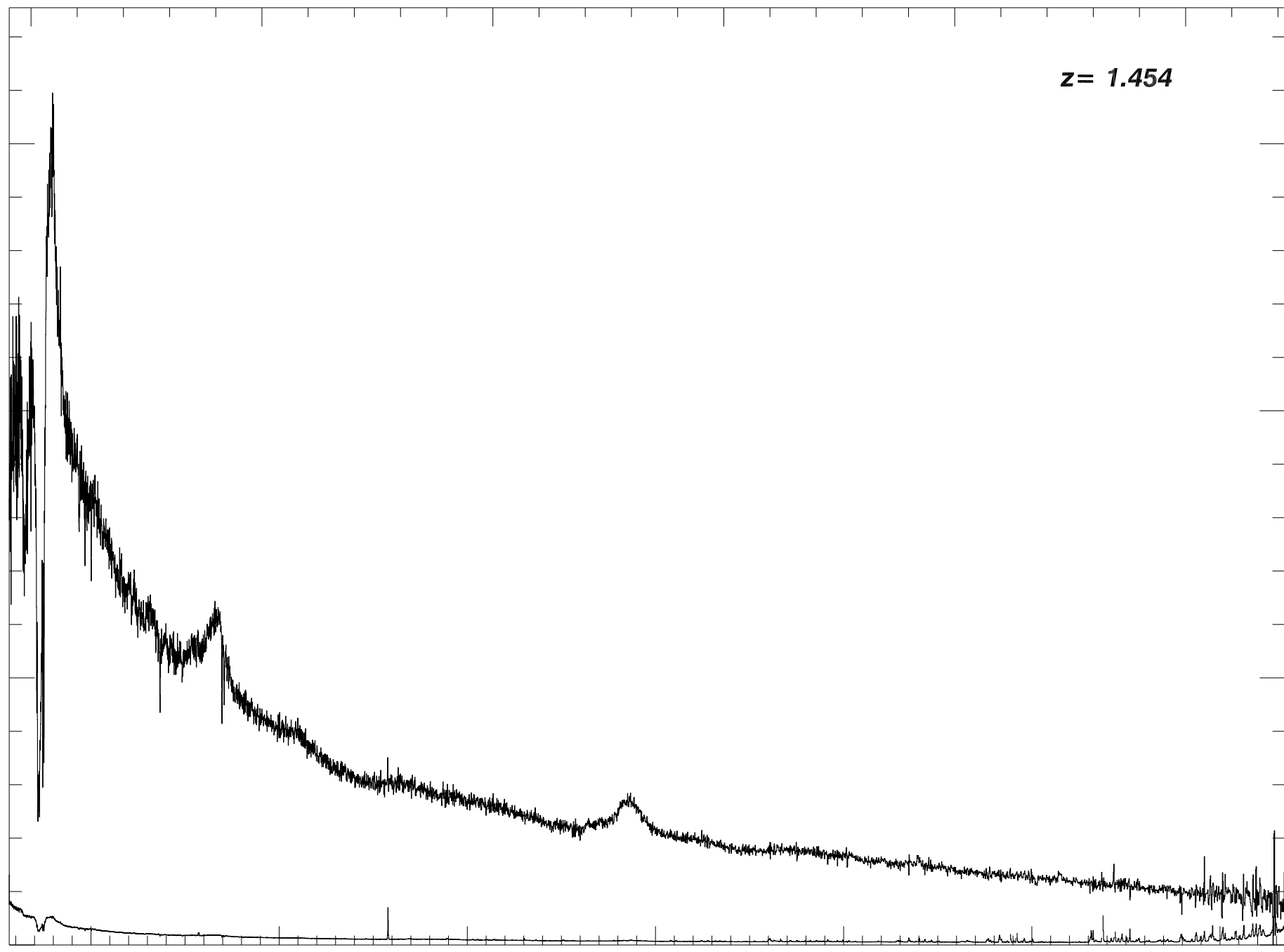
7000

8000

9000

10000

Observed Wavelength (\AA)



SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

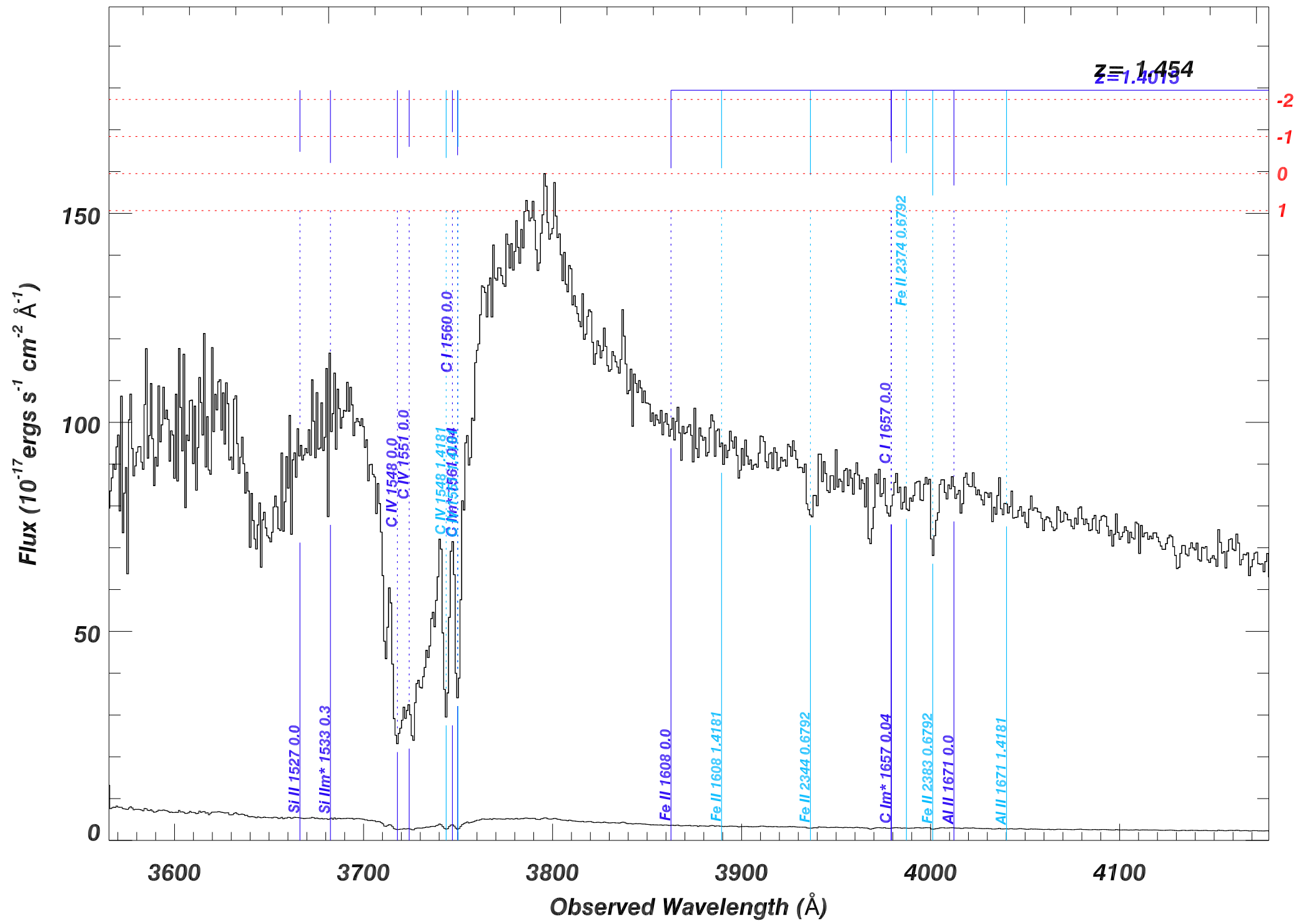
1500

1550

1600

1650

1700



SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

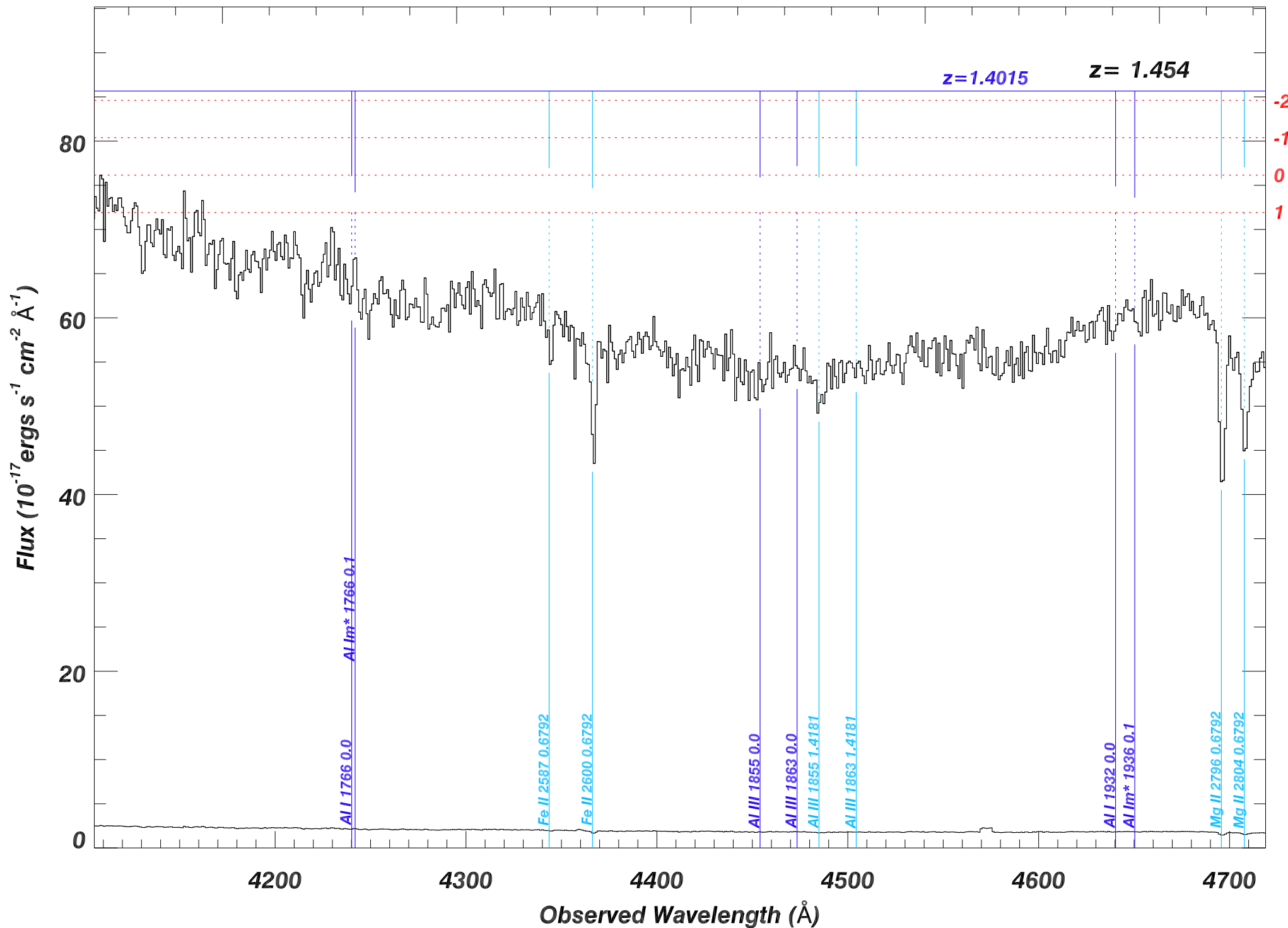
1700

1750

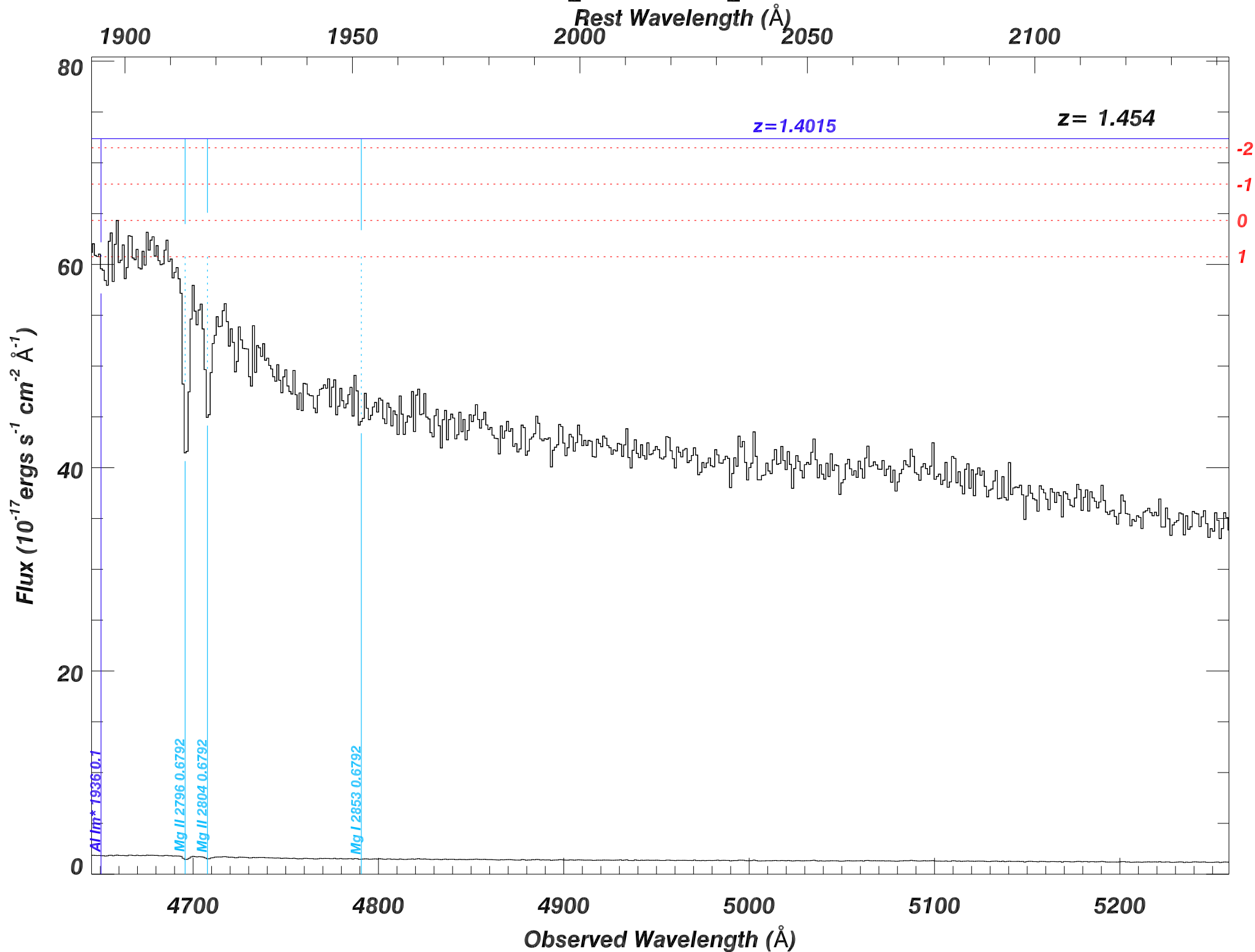
1800

1850

1900



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Rest Wavelength (\AA)

2150

2200

2250

2300

2350

$z=1.4015$

$z= 1.454$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

40

30

20

10

0

-2
-1
0
1

5200

5300

5400

5500

5600

5700

Observed Wavelength (\AA)

Fe III* 2333 0.4

Fe III* 2339 0.9

Fe II 2344 0.0

Fe III* 2349 0.7

Fe II 2344 1.4181

Fe III* 2366 0.4

Fe II 2374 0.0

Fe II 2383 0.0

Fe III* 2389 0.4

Fe III* 2396 0.4

Fe II 2383 1.4181

Fe III* 2406 0.7

Fe III* 2411 0.9

Fe III* 2400 0.7

Fe III* 2414 1.0

-2

-1

0

1

SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

2350

2400

2450

2500

2550

$z=1.4015$

$z=1.454$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

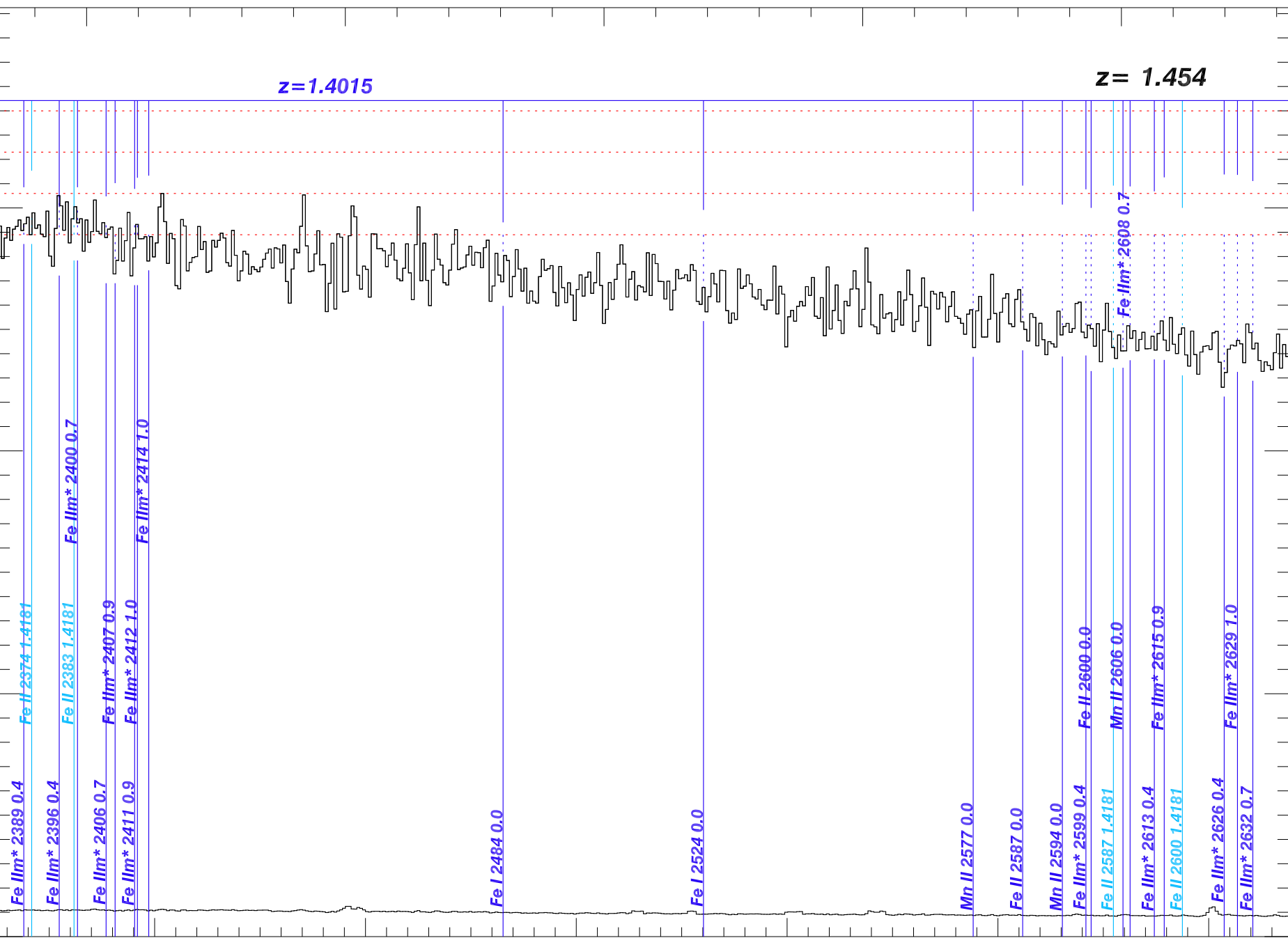
30

20

10

0

-2
-1
0
1



5800

5900

6000

6100

6200

6300

Observed Wavelength (\AA)

SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

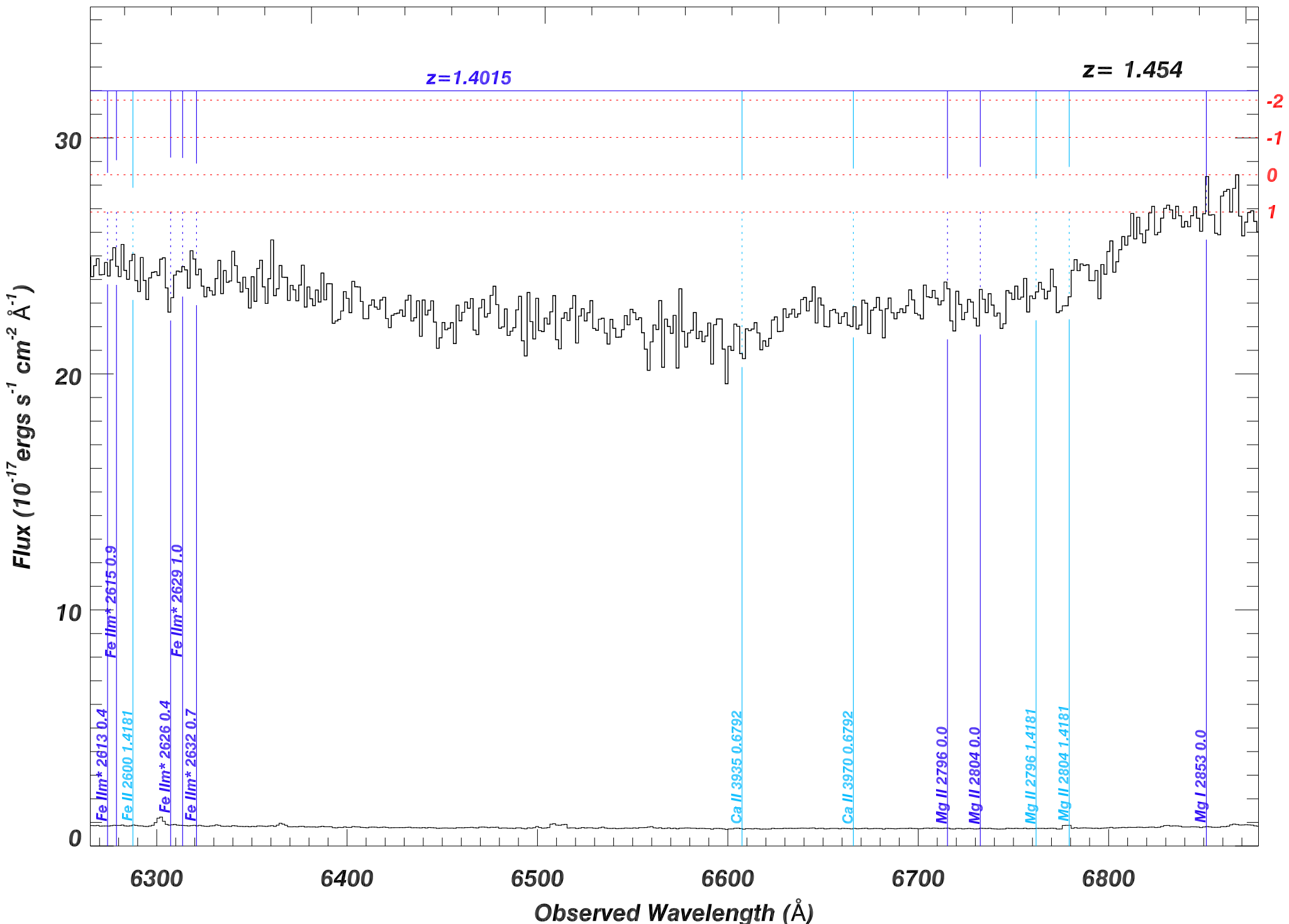
2600

2650

2700

2750

2800



SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

2800

2850

2900

2950

3000

$z=1.4015$

$z=1.454$

-2

-1

0

1

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

30

20

10

0

Mg I 2853 0.0

Mg I 2853 1.4181

He I m* 2946 159.9

6900

7000

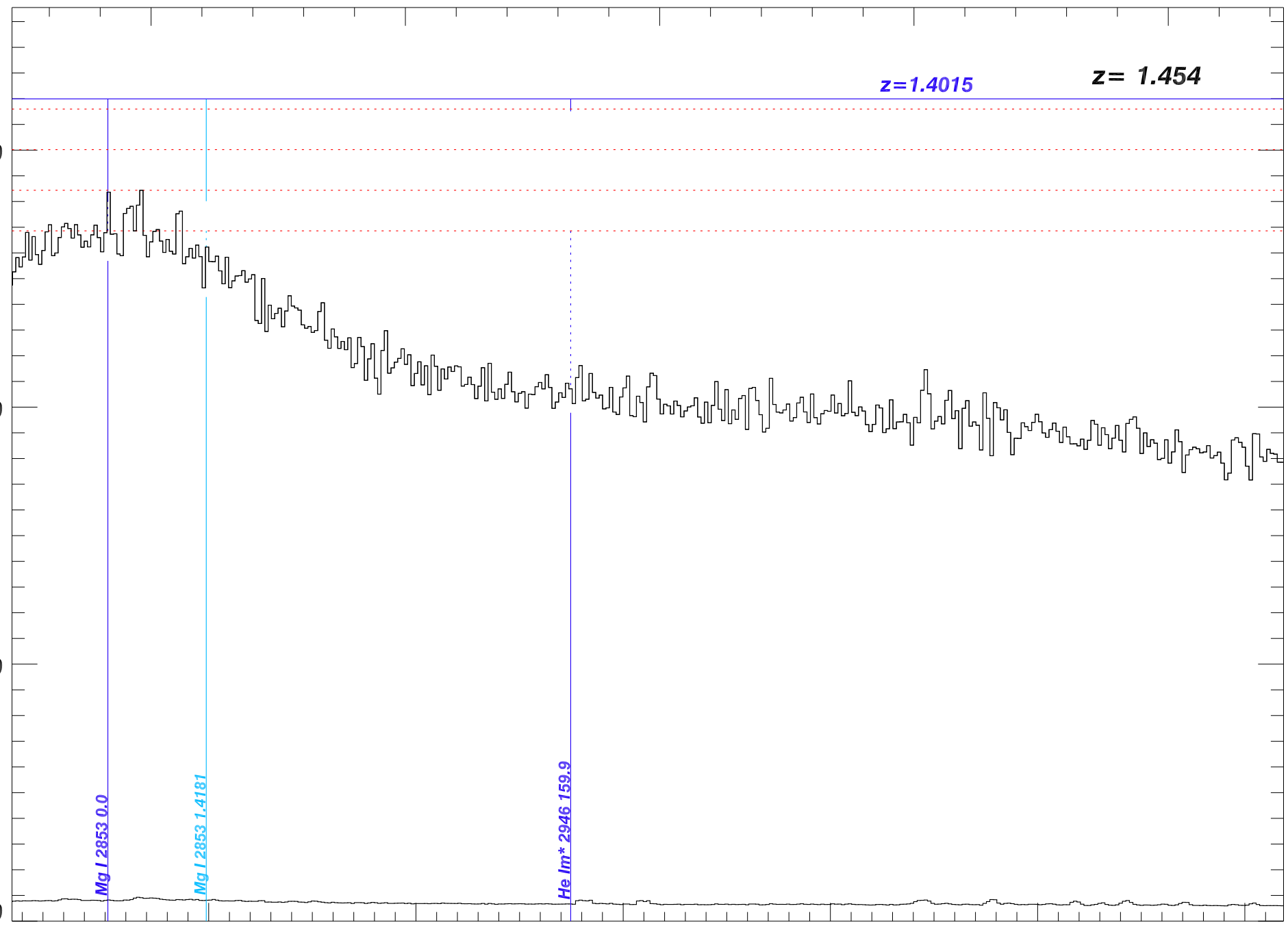
7100

7200

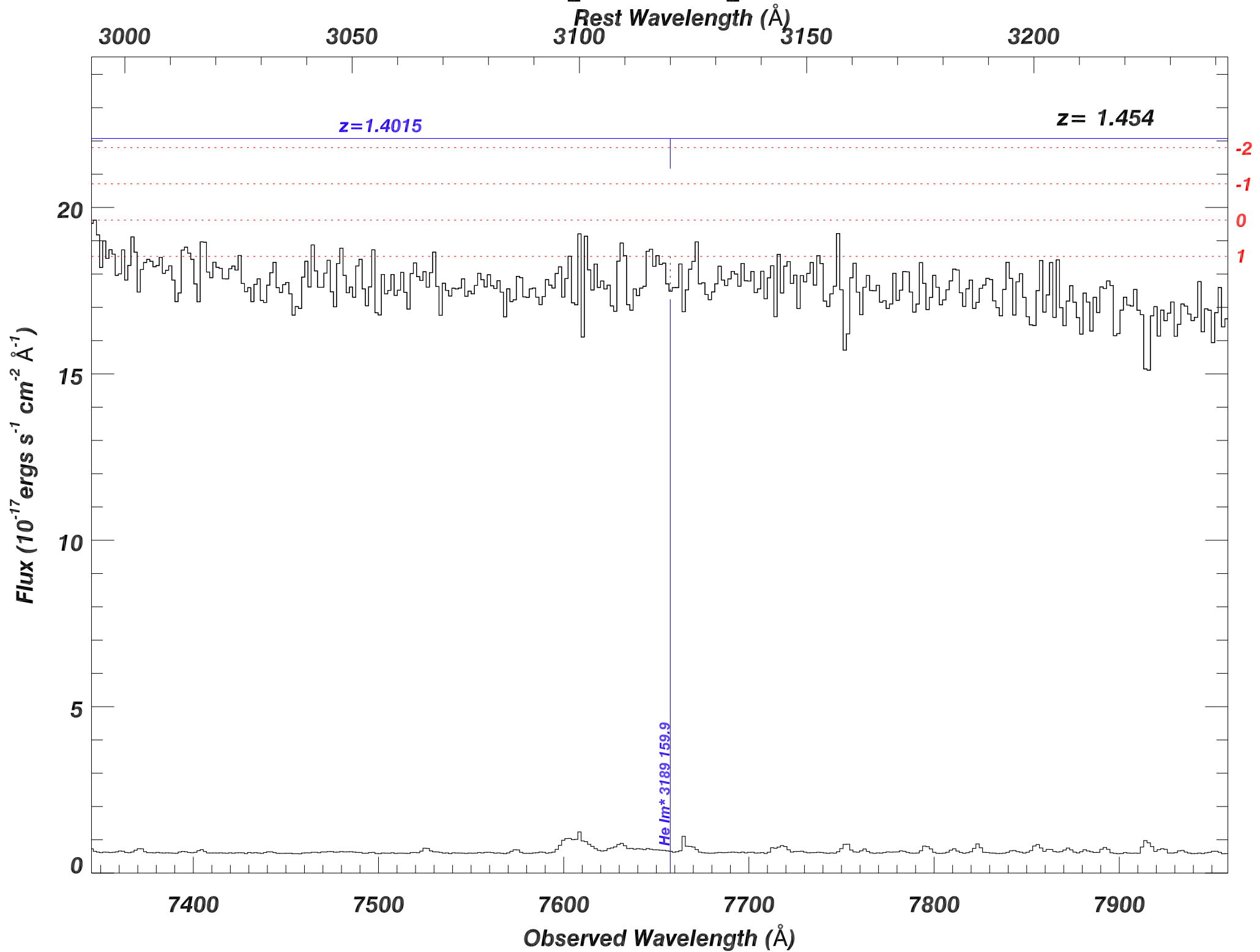
7300

7400

Observed Wavelength (\AA)



SDSS_J1054+2733_MJD56363



SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

3300

3400

3500

3600

$z = 1.454$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

20

15

10

5

0

-2
-1
0
1

8000

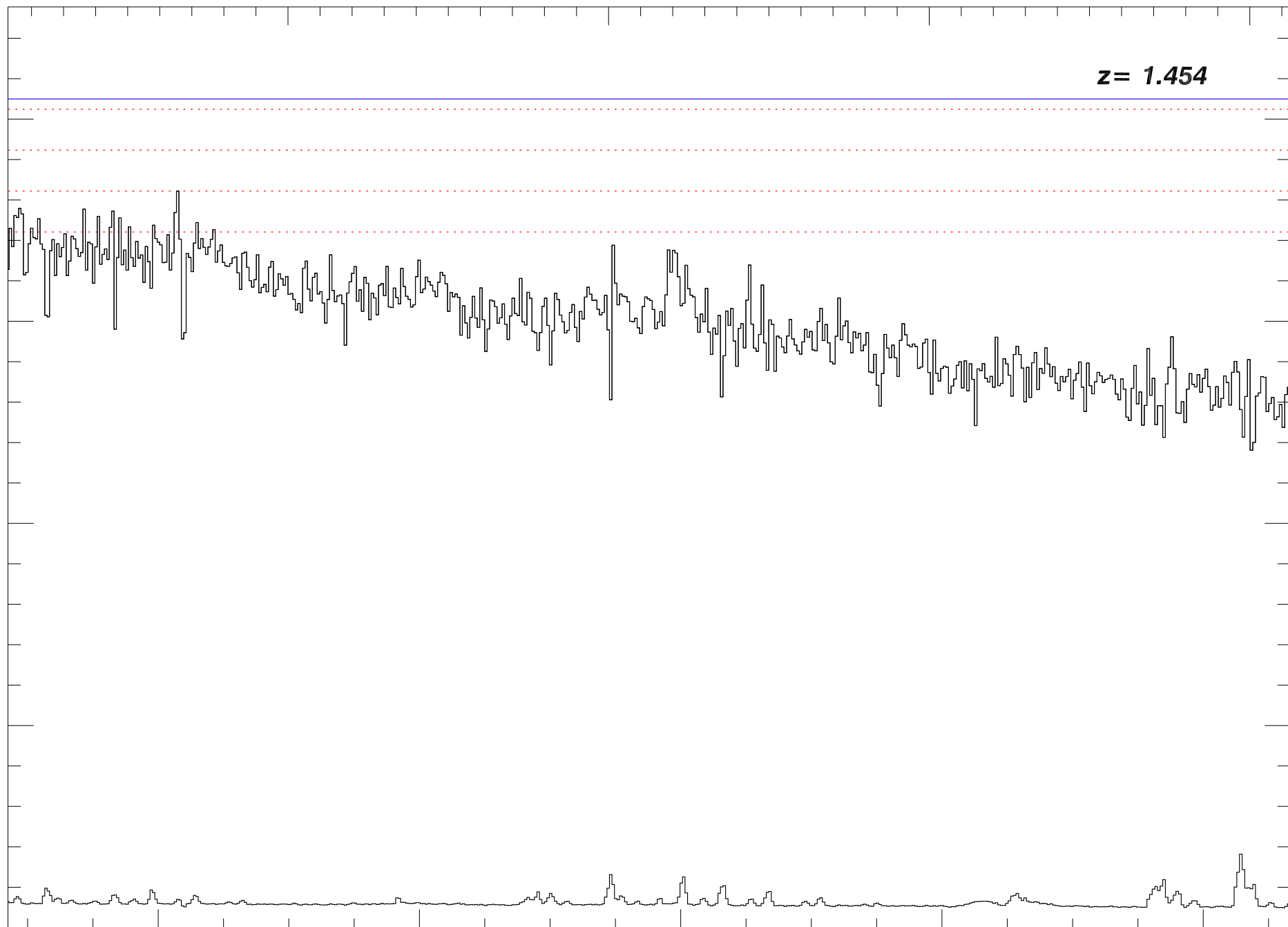
8200

8400

8600

8800

Observed Wavelength (\AA)



SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

3600

3700

3800

3900

$z=1.4015$

$z=1.454$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

15

10

5

0

-2

-1

0

1

8800

9000

9200

9400

9600

Observed Wavelength (\AA)

He I λ 3890.159.9

Ca II 3935.0.0

Ca II 3935.1.4181

Ca II 3970.0.0

Ca II 3970.1.4181

SDSS_J1054+2733_MJD56363

Rest Wavelength (\AA)

4000

4100

4200

4300

$z = 1.454$

