

SDSS_J1139+5014_MJD56412

Rest Wavelength (Å)

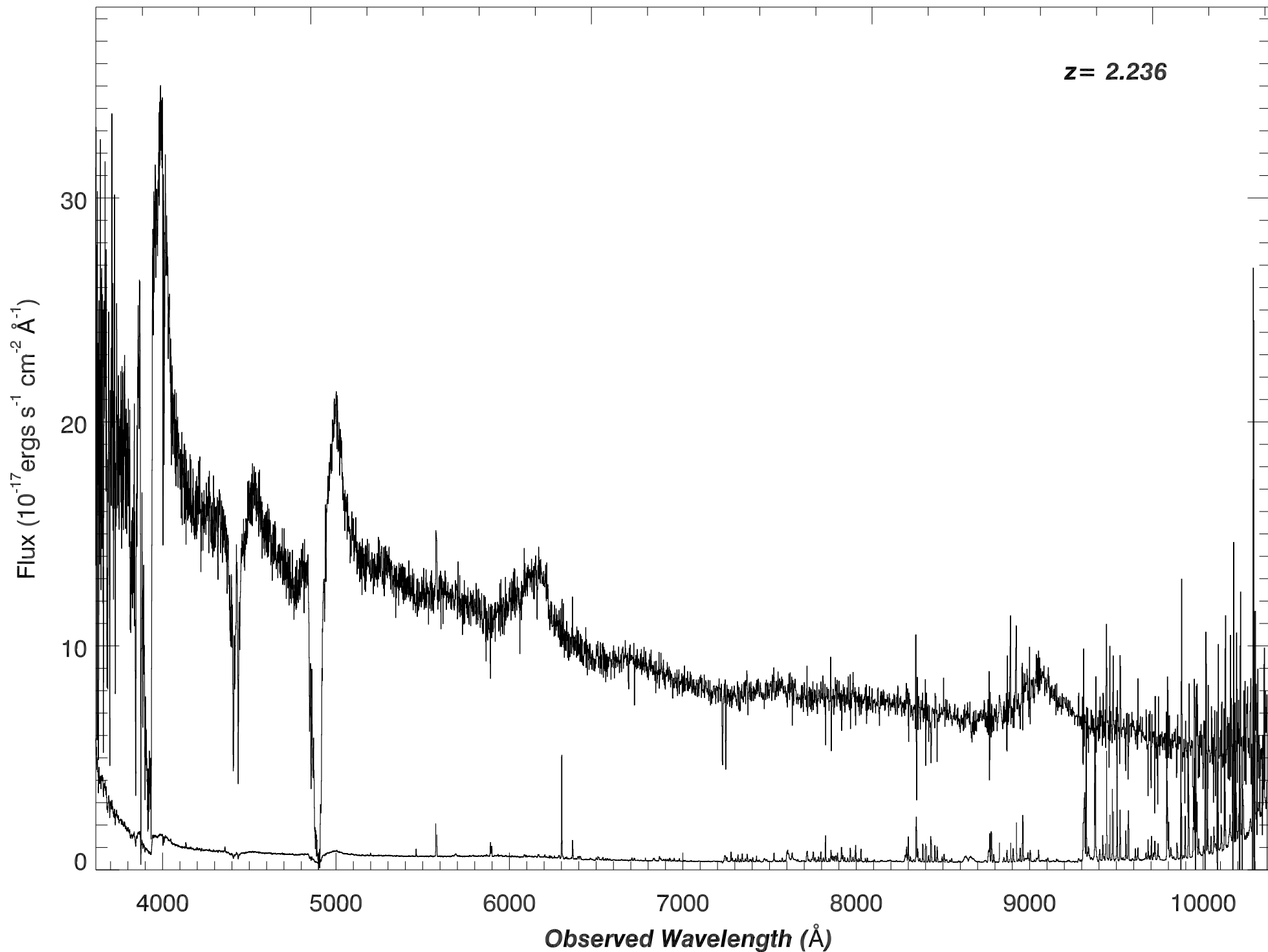
1500

2000

2500

3000

z = 2.236



SDSS_J1139+5014_MJD56412

Rest Wavelength (Å)

1150

1200

1250

1300

1350

Flux (10^{-17} ergs s^{-1} cm^{-2} Å $^{-1}$)

40
30
20
10
0

-2
-1
0
1

$z=2.1624$ $z=2.236$

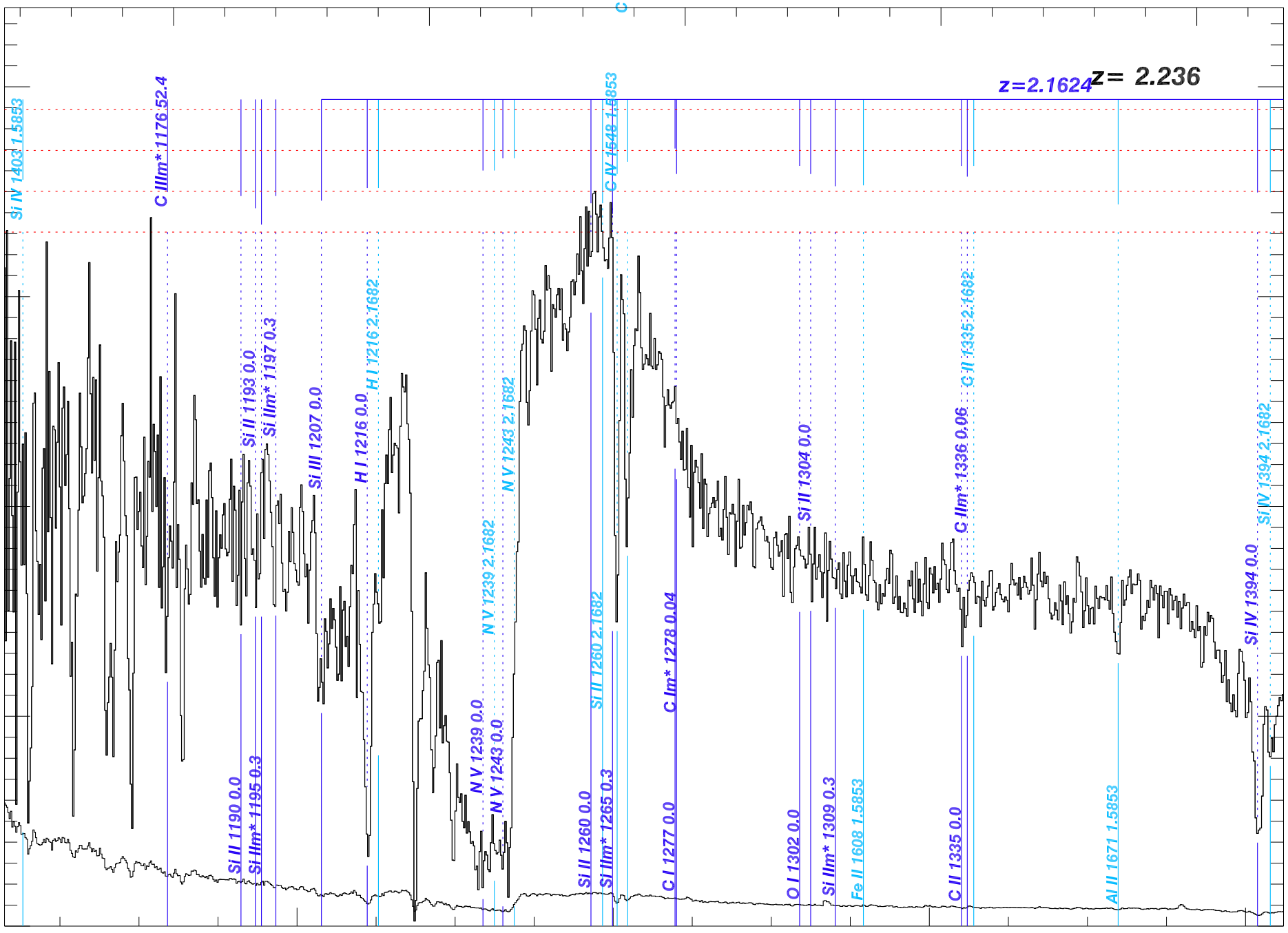
3800

4000

4200

4400

Observed Wavelength (Å)



SDSS_J1139+5014_MJD56412

Rest Wavelength (\AA)

1350

1400

1450

1500

1550

25

20

15

10

5

0

$z=2.1624$

$z= 2.236$

-2

-1

0

1

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

4400

4600

4800

5000

Observed Wavelength (\AA)

Si IV 1394 0.0

Si IV 1394 2.1682

Si IV 1403 0.0

Si IV 1403 2.1682

Al III 1855 1.5853

Al III 1863 1.5853

Si II 1527 0.0

Si III* 1533 0.3

C IV 1548 0.0

C IV 1551 0.0

C IV 1551 2.1682

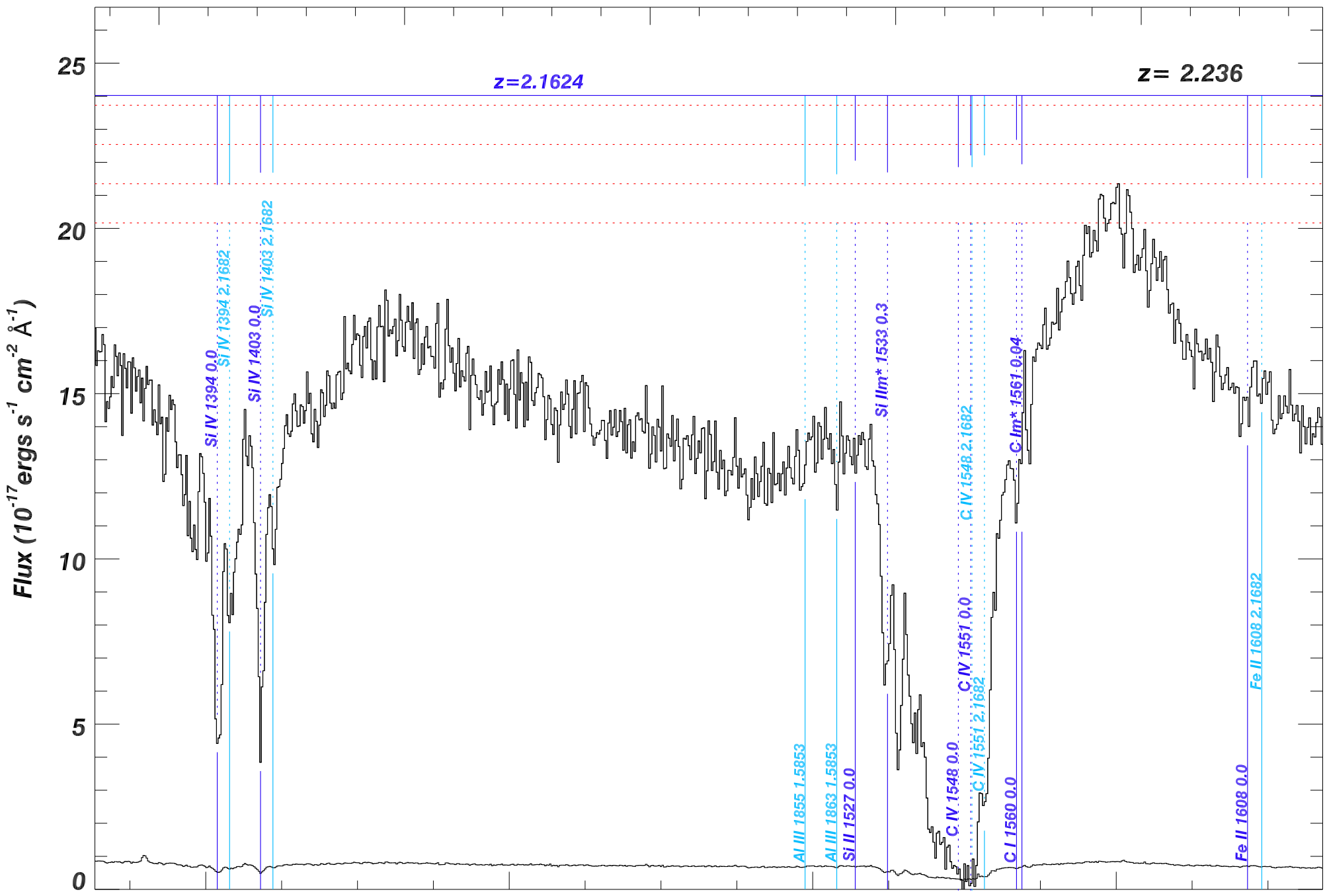
C IV 1548 2.1682

C I 1560 0.0

C III* 1561 0.04

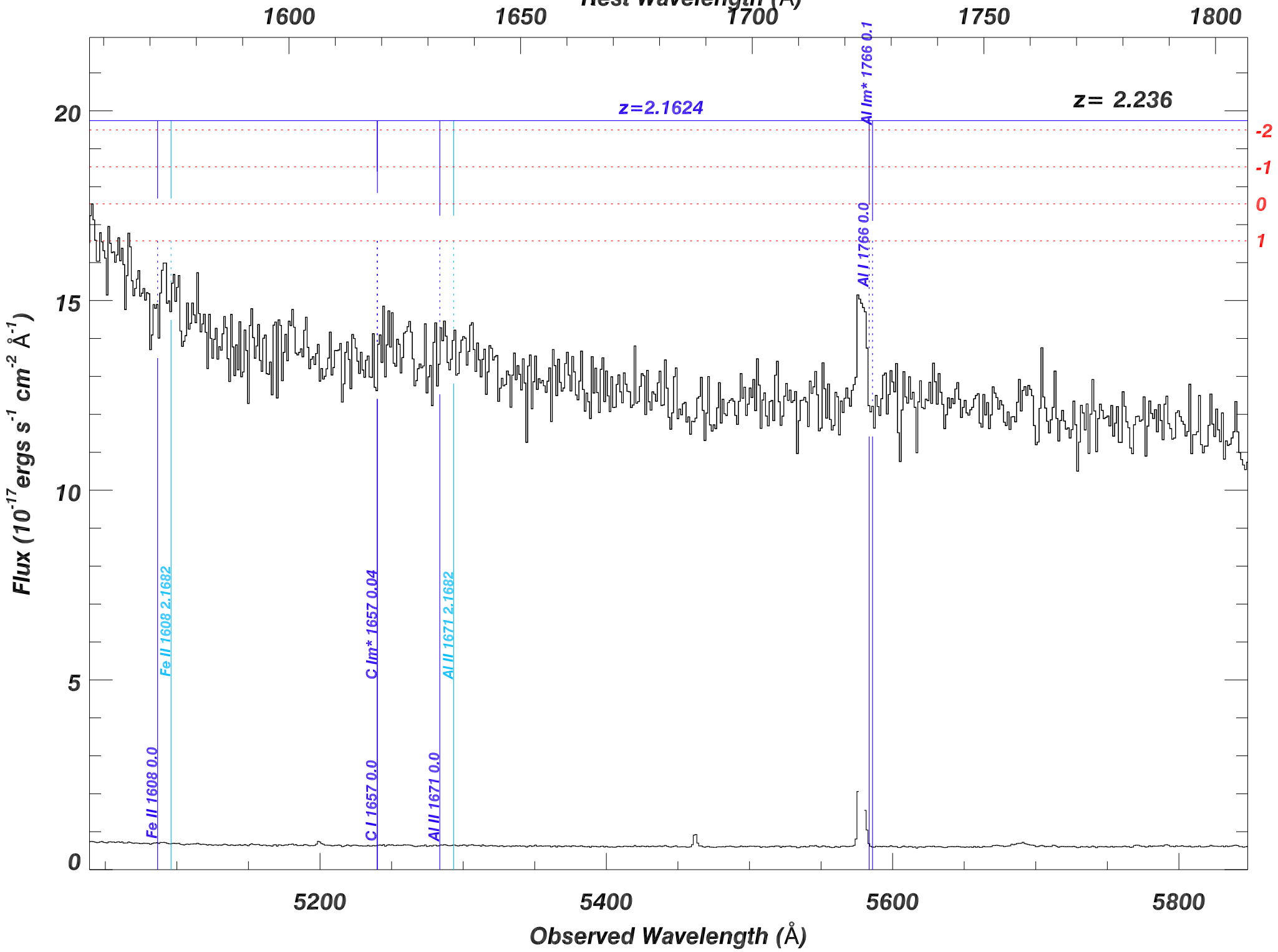
Fe II 1608 0.0

Fe II 1608 2.1682



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Rest Wavelength (\AA)



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Rest Wavelength (\AA)

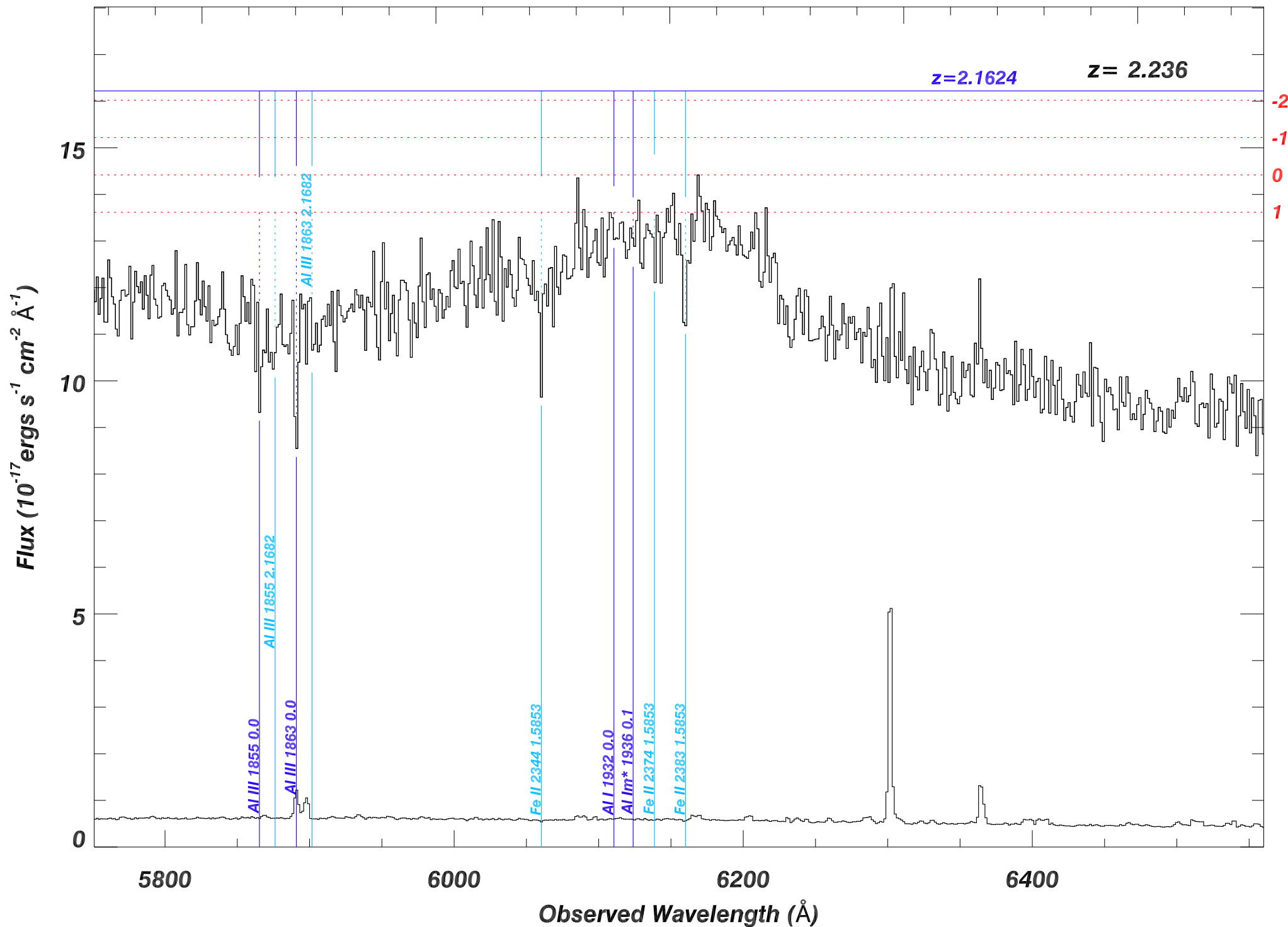
1800

1850

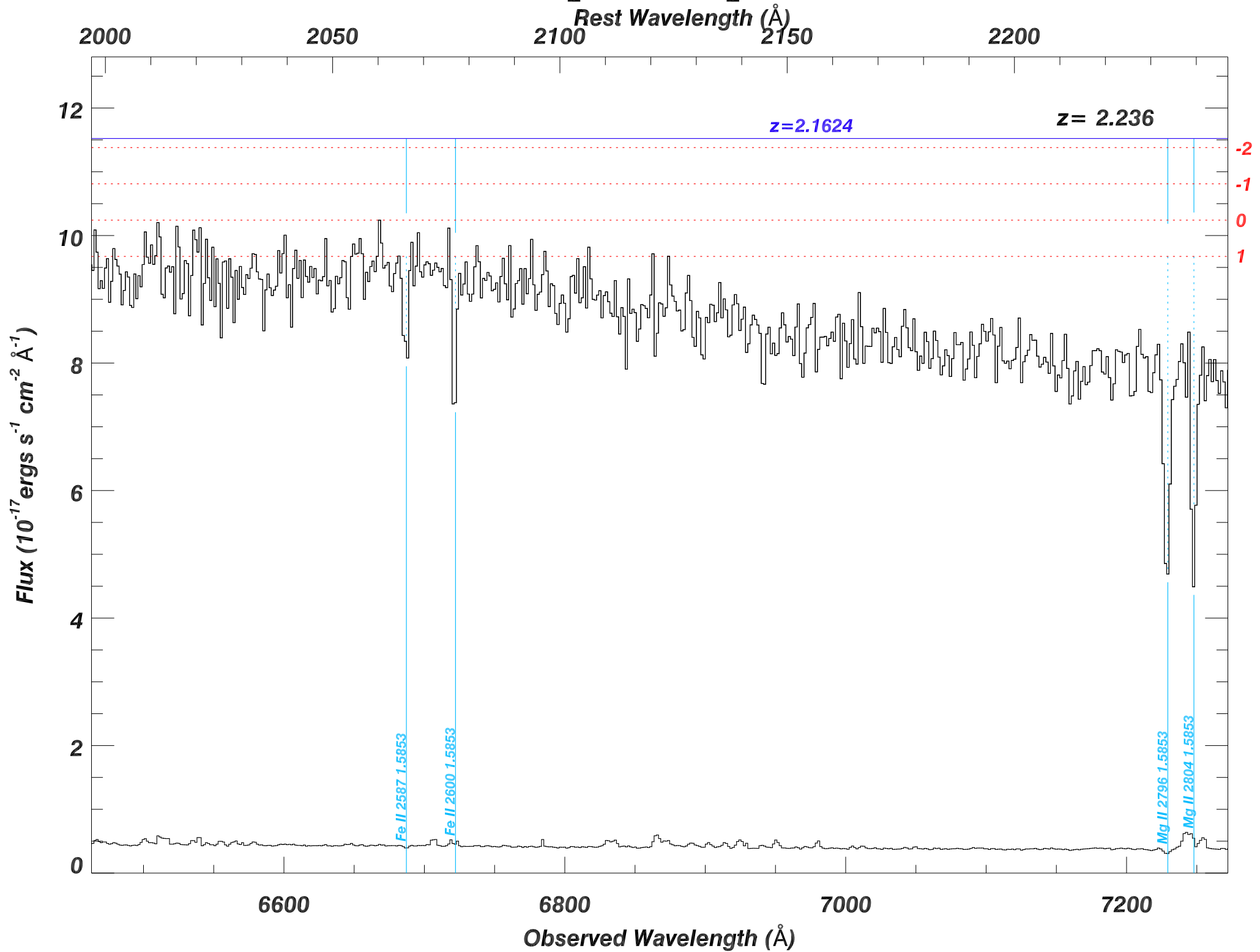
1900

1950

2000



SDSS_J1139+5014_MJD56412



SDSS_J1139+5014_MJD56412

Rest Wavelength (\AA)

2250

2300

2350

2400

2450

$z=2.1624$

$z= 2.236$

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

10

8

6

4

2

0

-2

-1

0

1

Mg II 2796 1.5853

Mg II 2804 1.5853

Mg I 2853 1.5853

Fe III* 2333 0.4

Fe III* 2339 0.9

Fe II 2344 0.0

Fe II 2344 2.1682

Fe III* 2349 0.7

Fe III* 2366 0.4

Fe II 2374 0.0

Fe II 2374 2.1682

Fe II 2383 0.0

Fe II 2383 2.1682

Fe III* 2389 0.4

Fe III* 2396 0.4

Fe III* 2400 0.7

Fe III* 2406 0.7

Fe III* 2407 0.9

Fe III* 2411 0.9

Fe III* 2412 1.0

Fe III* 2414 1.0

Fe I 2484 0.0

Fe I 2524 0.0

7200

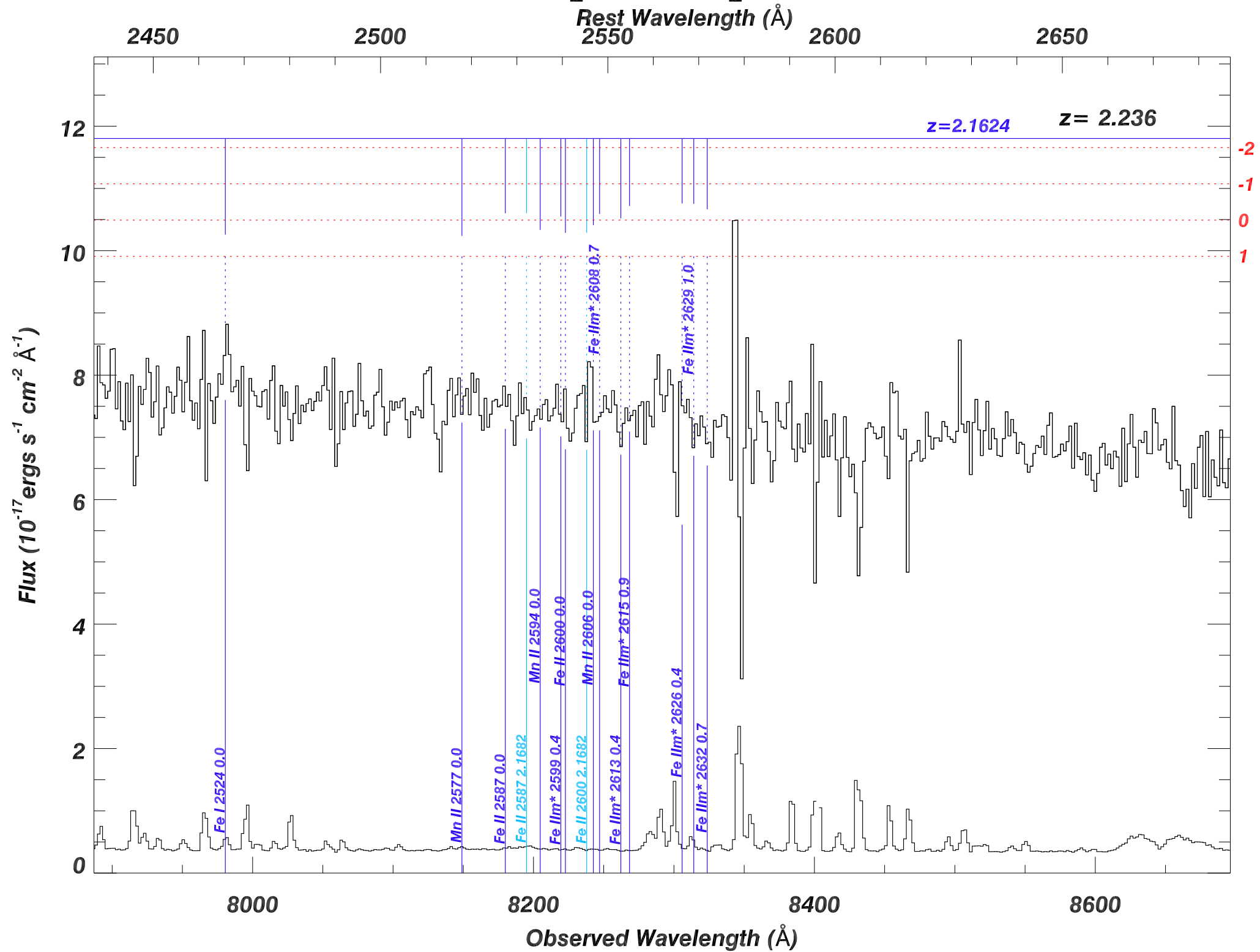
7400

7600

7800

Observed Wavelength (\AA)

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SDSS_J1139+5014_MJD56412

Rest Wavelength (\AA)

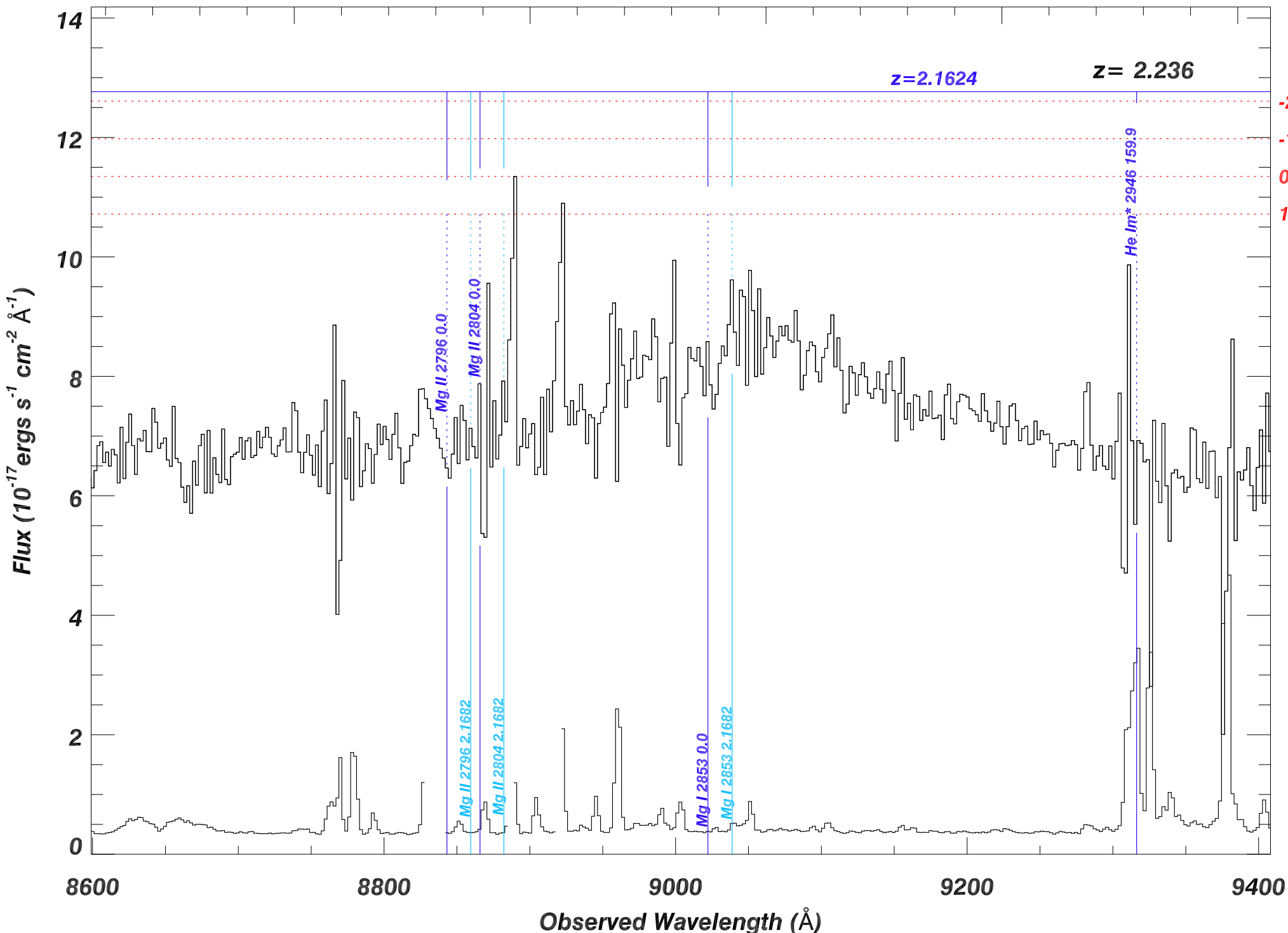
2700

2750

2800

2850

2900



SDSS_J1139+5014_MJD56412

Rest Wavelength (\AA)

2900

2950

3000

3050

3100

15

$z=2.1624$

$z=2.236$

-2

-1

0

1

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

10

5

0

He I m* 2946.159.9

He I m* 3189.159.9

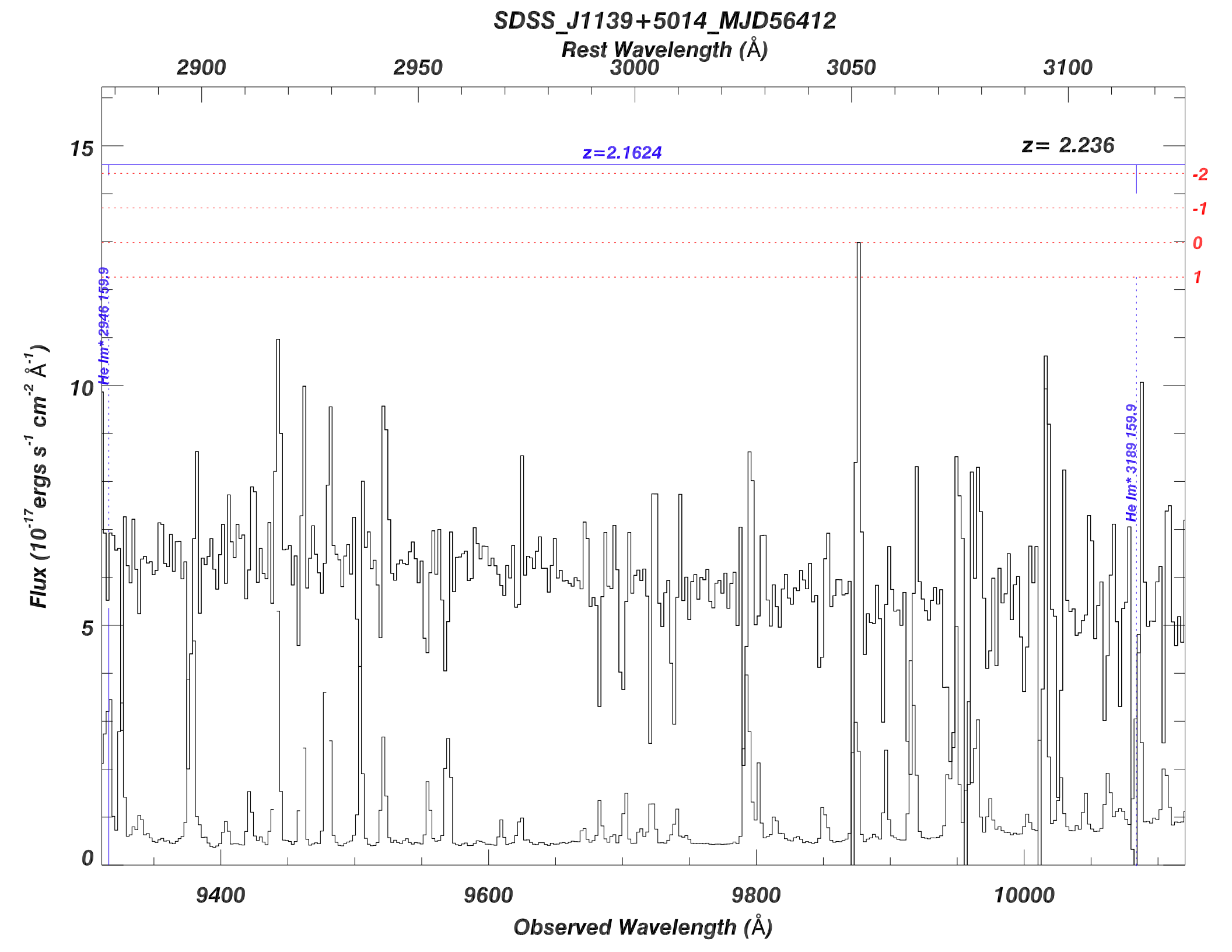
9400

9600

9800

10000

Observed Wavelength (\AA)



SDSS_J1139+5014_MJD56412

Rest Wavelength (\AA)

3100

3200

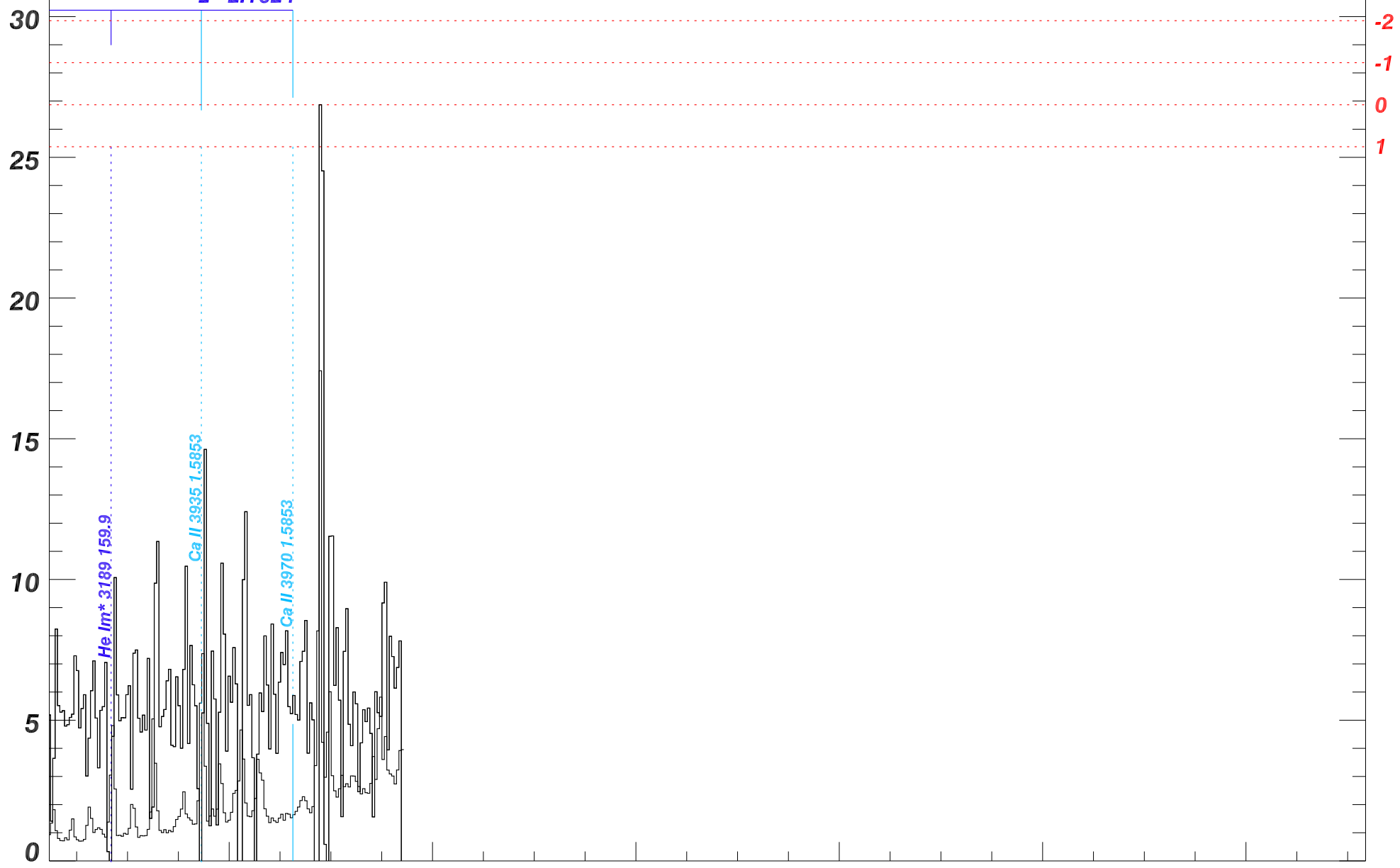
3300

3400

$z=2.1624$

$z= 2.236$

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



1.02×10^4 1.04×10^4 1.06×10^4 1.08×10^4 1.10×10^4 1.12×10^4

Observed Wavelength (\AA)