

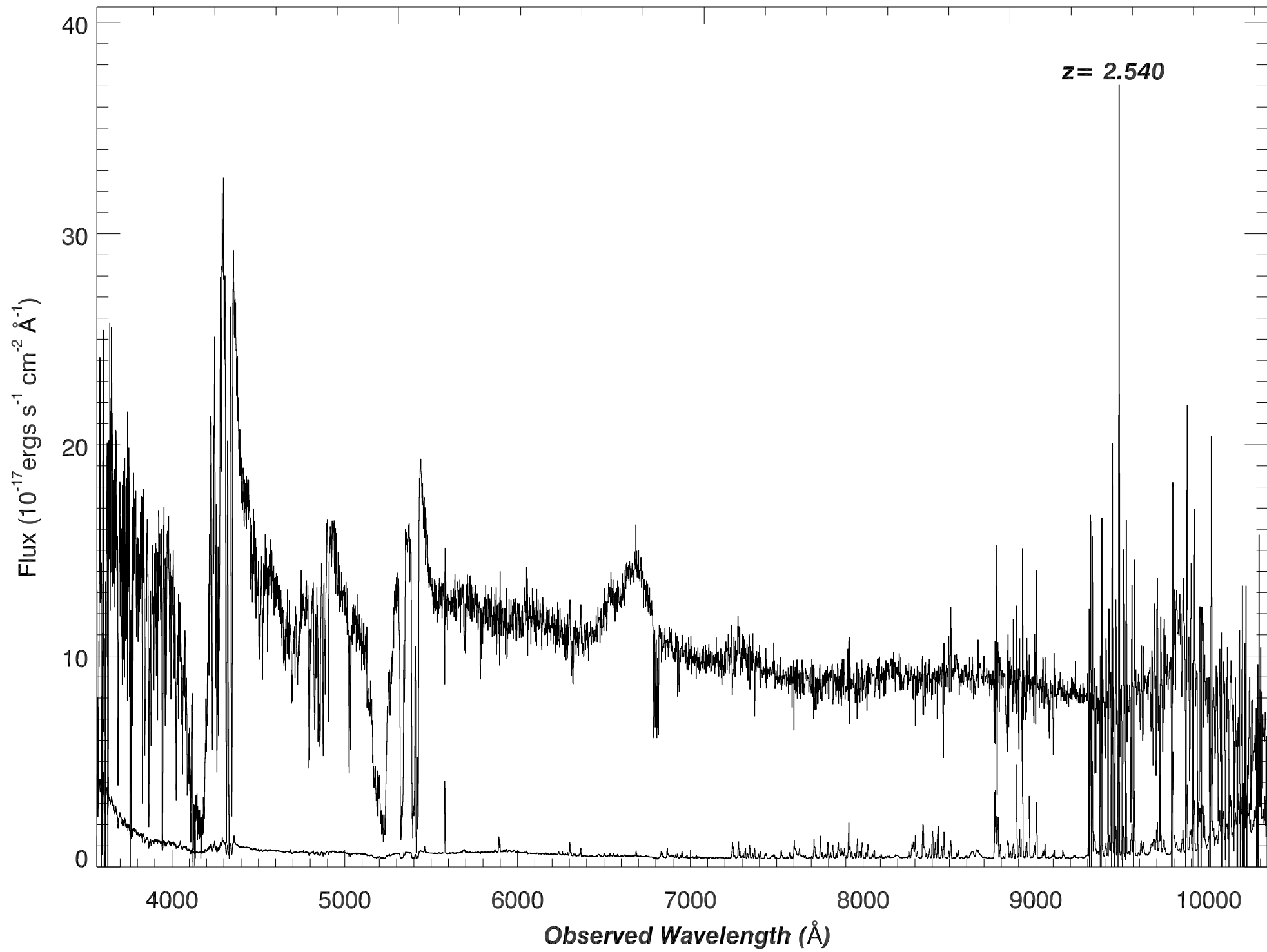
**SDSS\_J1116+2246\_MJD56304**

**Rest Wavelength ( $\text{\AA}$ )**

**1500**

**2000**

**2500**



**$z = 2.540$**

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

**Observed Wavelength ( $\text{\AA}$ )**

4000

5000

6000

7000

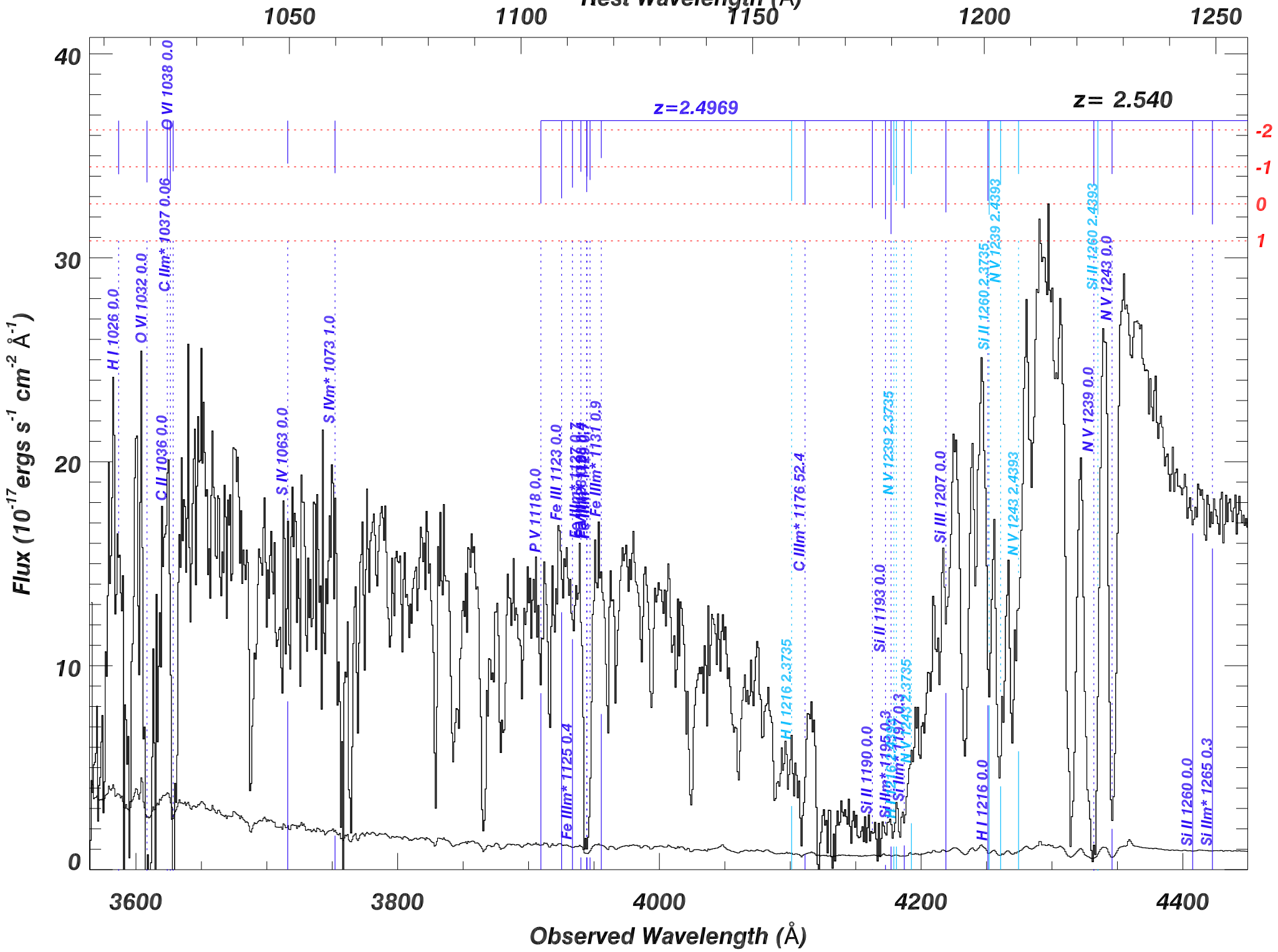
8000

9000

10000

# SDSS\_J1116+2246\_MJD56304

Rest Wavelength (Å)



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )

1250

1300

1350

1400

1450

$z=2.4969$   $z=2.540$

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

30

20

10

0

-2  
-1  
0  
1

4400

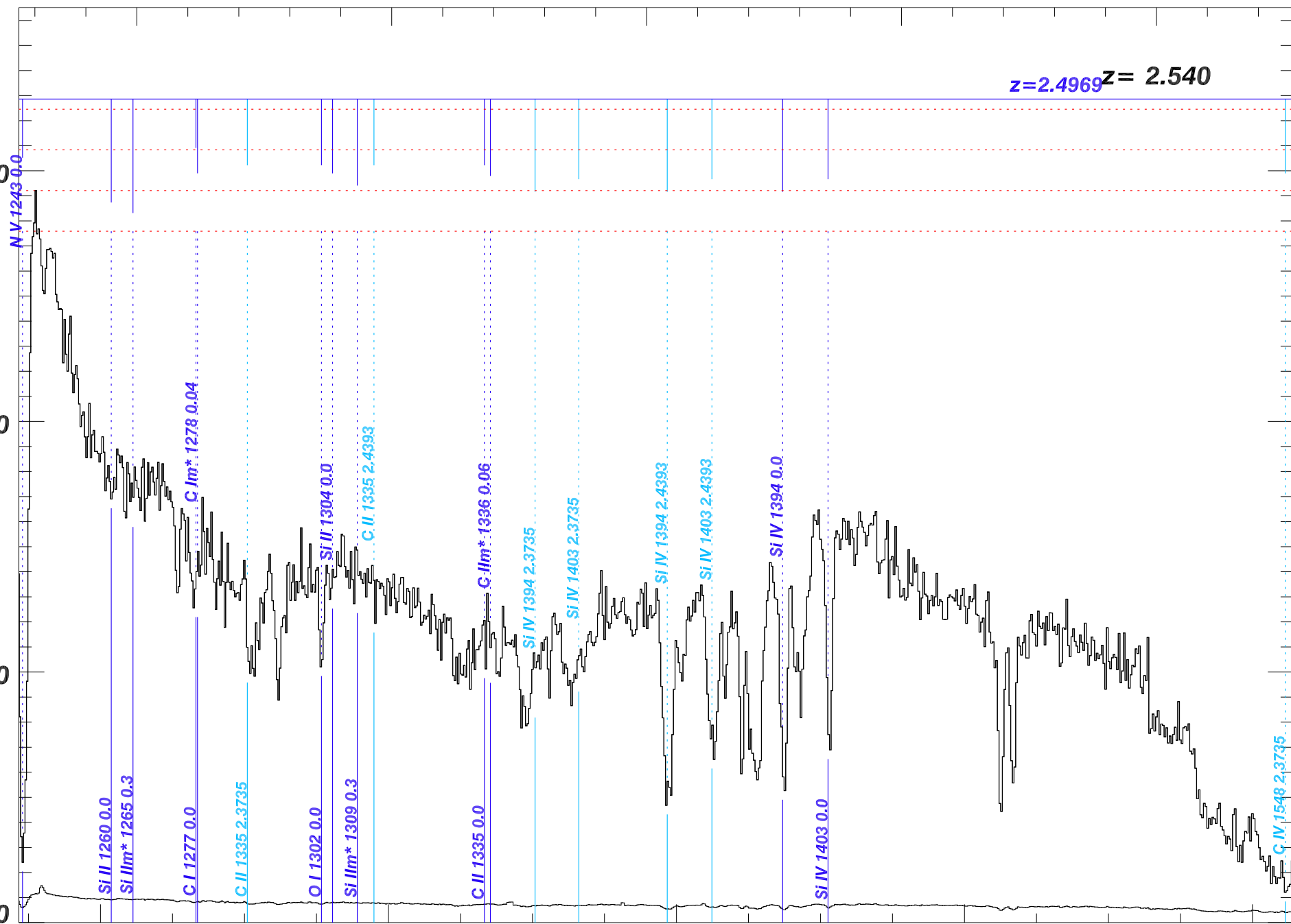
4600

4800

5000

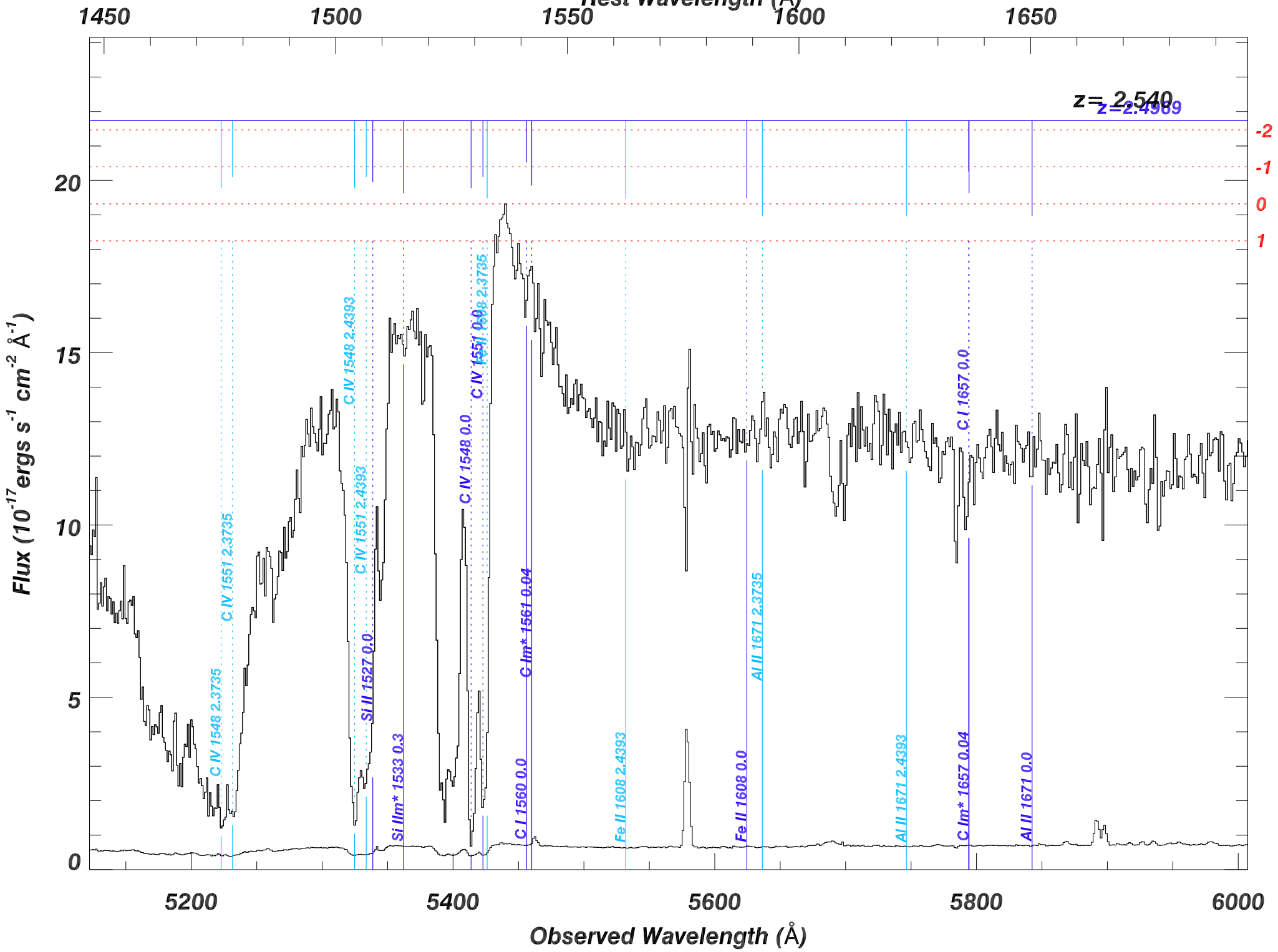
5200

Observed Wavelength ( $\text{\AA}$ )



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )

1700

1750

1800

1850

1900

$z=2.4969$

$z= 2.540$

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

20

15

10

5

0

-2

-1

0

1

Al I 1766 0.0  
Al I m\* 1766 0.1

Al III 1855 2.3735

Al III 1863 2.3735

Al III 1855 2.4393

Al III 1863 2.4393

Al III 1855 0.0

Al III 1863 0.0

Al I 1932 0.0

Al I m\* 1936 0.1

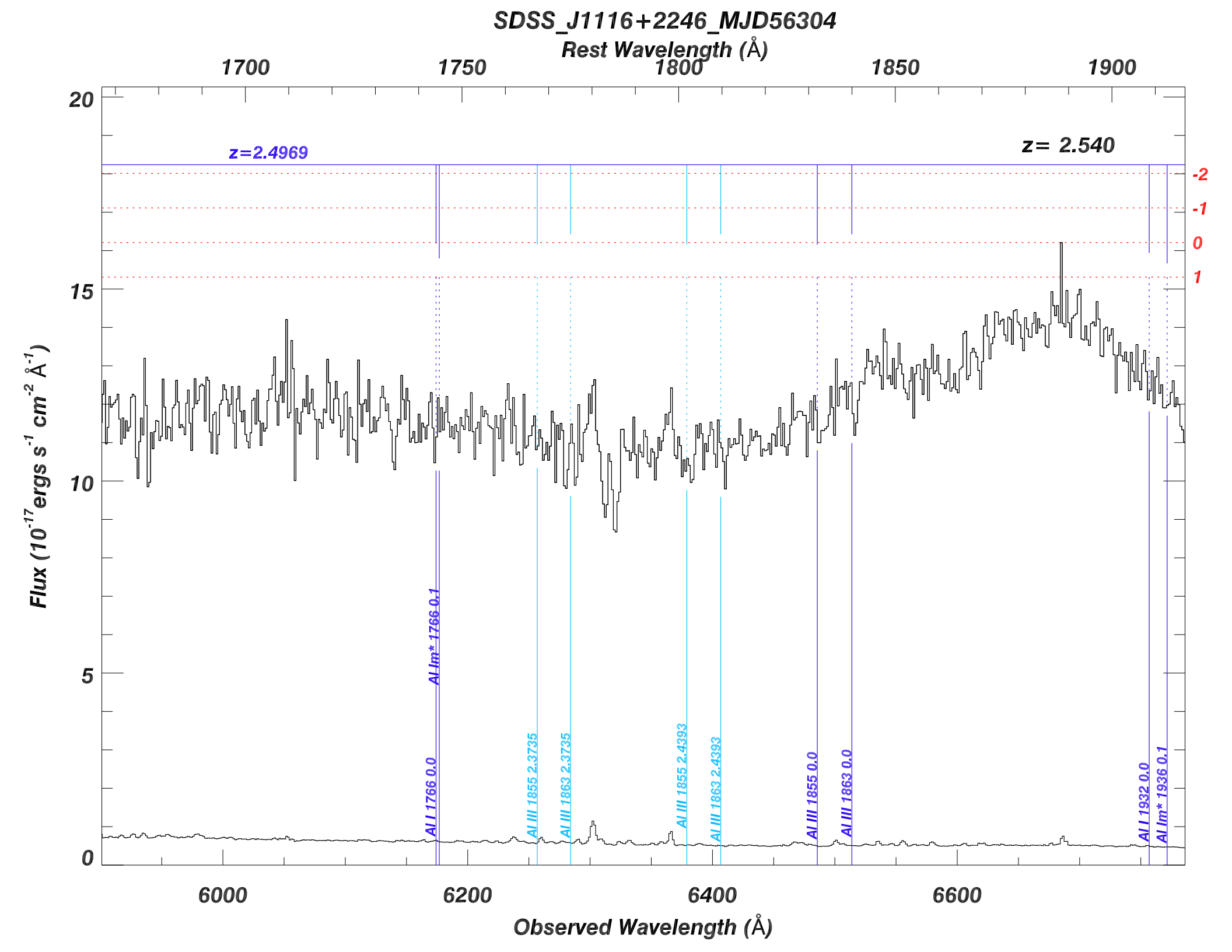
6000

6200

6400

6600

Observed Wavelength ( $\text{\AA}$ )



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )

1900

1950

2000

2050

2100

$z=2.4969$

$z=2.540$

-2

-1

0

1

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

20

15

10

5

0

Al I 1932 0.0

Al I m\* 1936 0.1

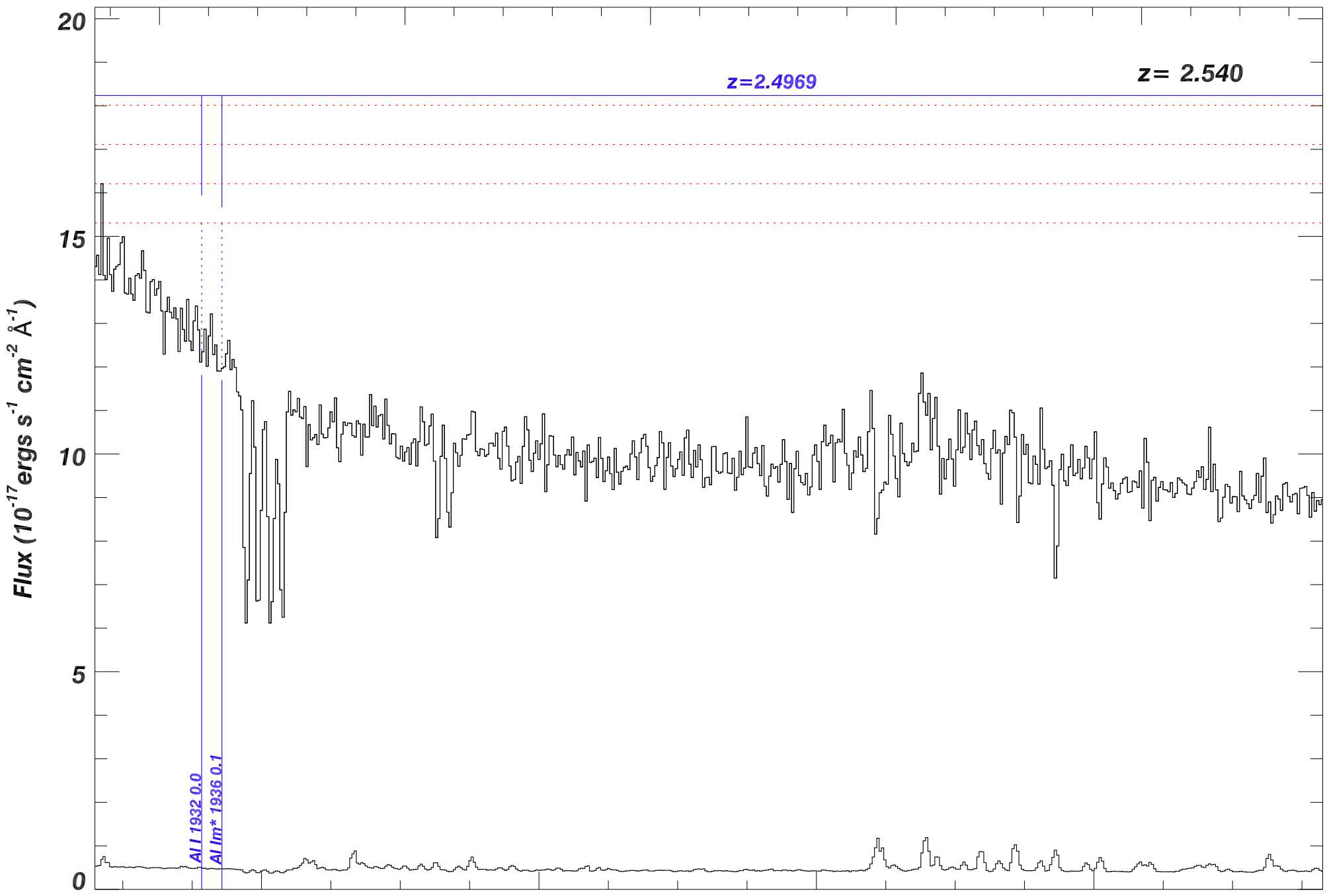
6800

7000

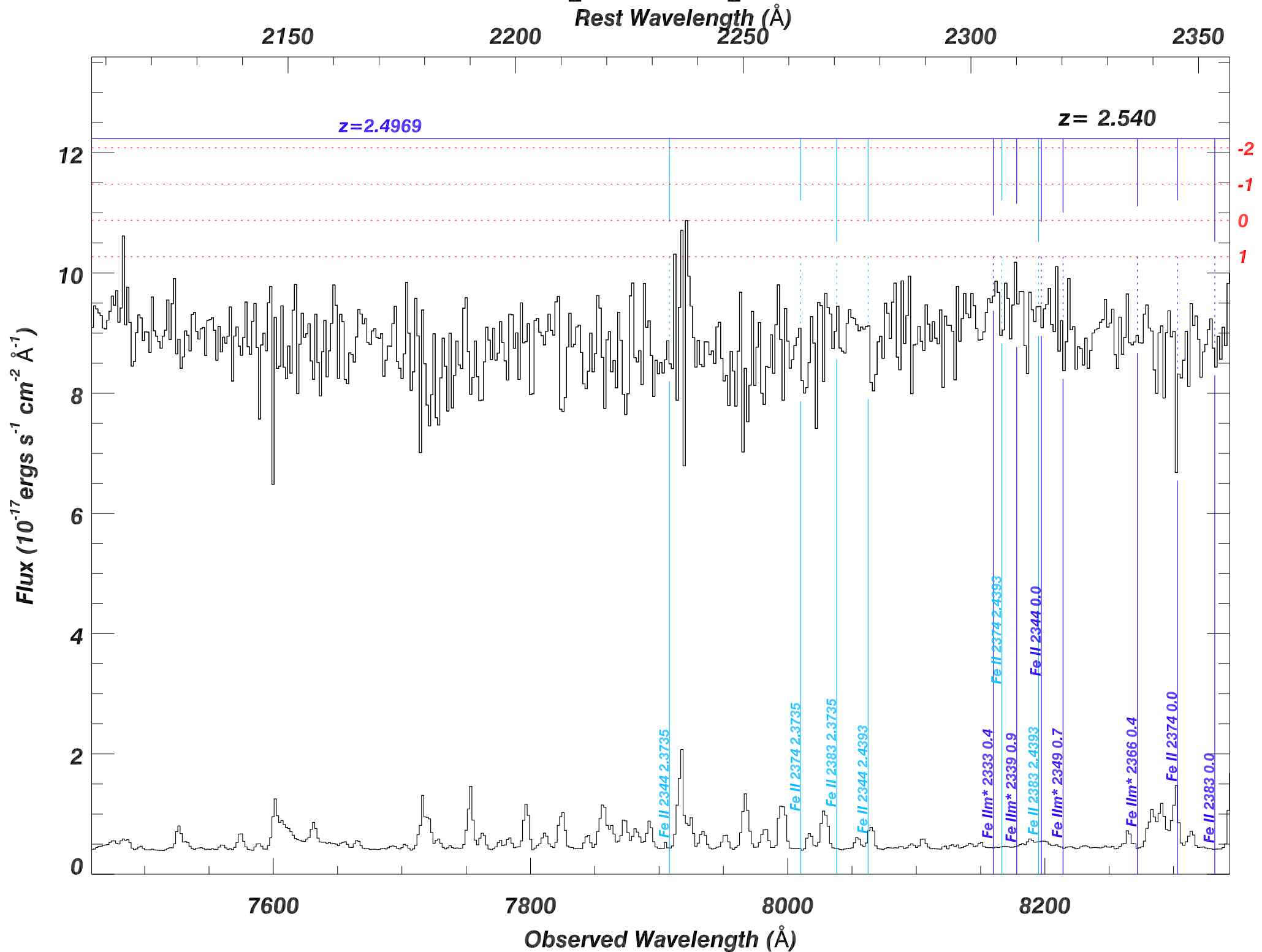
7200

7400

Observed Wavelength ( $\text{\AA}$ )



# SDSS\_J1116+2246\_MJD56304



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )

2350

2400

2450

2500

2550

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

15

10

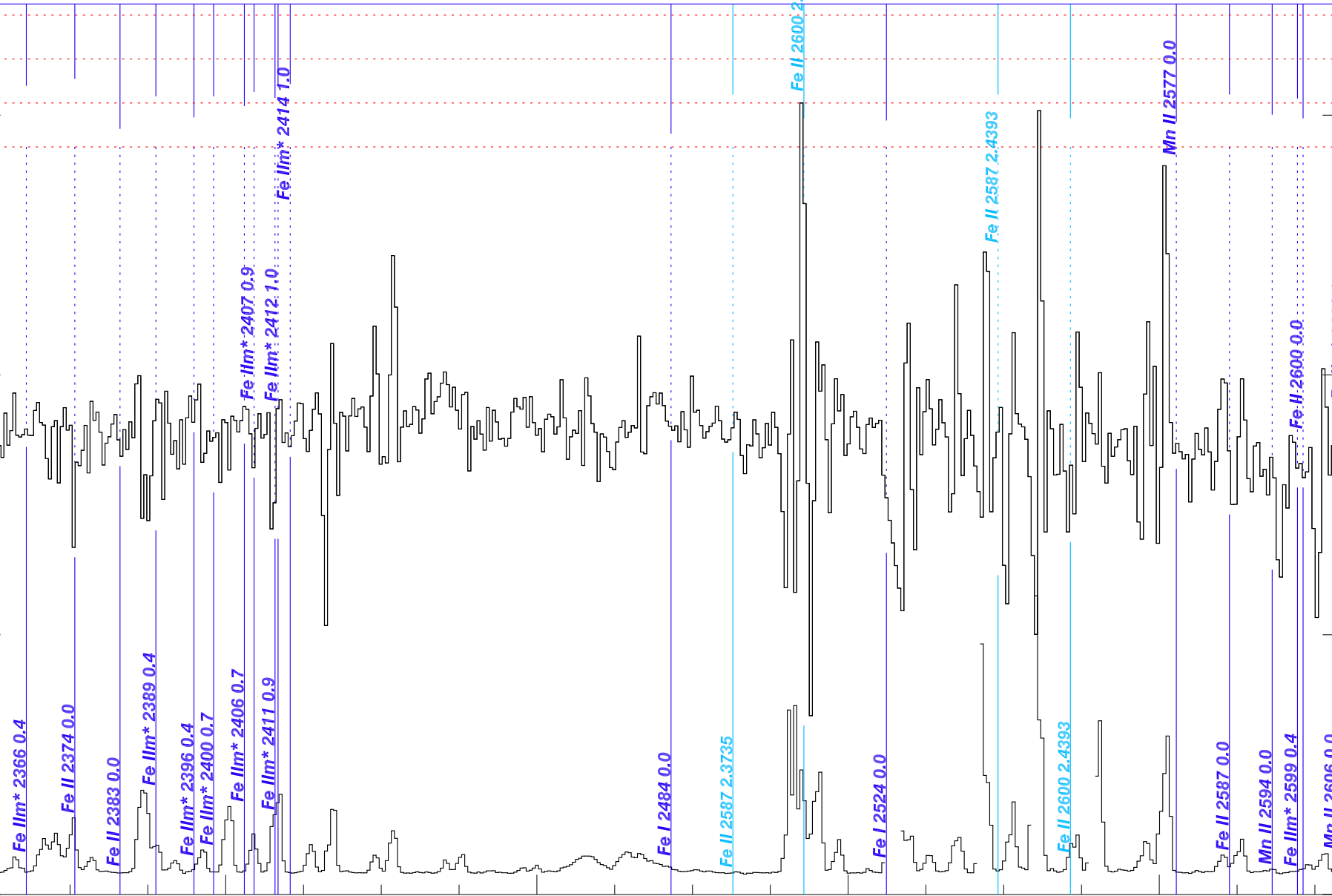
5

0

$z=2.4969$

$z= 2.540$

-2  
-1  
0  
1



8400

8600

8800

9000

Observed Wavelength ( $\text{\AA}$ )

$\text{Fe III}^* 2366 0.4$

$\text{Fe II } 2374 0.0$

$\text{Fe II } 2383 0.0$

$\text{Fe III}^* 2389 0.4$

$\text{Fe III}^* 2396 0.4$

$\text{Fe III}^* 2400 0.7$

$\text{Fe III}^* 2406 0.7$

$\text{Fe III}^* 2411 0.9$

$\text{Fe III}^* 2407 0.9$

$\text{Fe III}^* 2412 1.0$

$\text{Fe III}^* 2414 1.0$

$\text{Fe I } 2484 0.0$

$\text{Fe II } 2587 2.3735$

$\text{Fe II } 2600 2.3735$

$\text{Fe I } 2524 0.0$

$\text{Fe II } 2587 2.4393$

$\text{Fe II } 2600 2.4393$

$\text{Fe II } 2587 0.0$

$\text{Mn II } 2594 0.0$

$\text{Fe III}^* 2599 0.4$

$\text{Fe II } 2600 0.0$

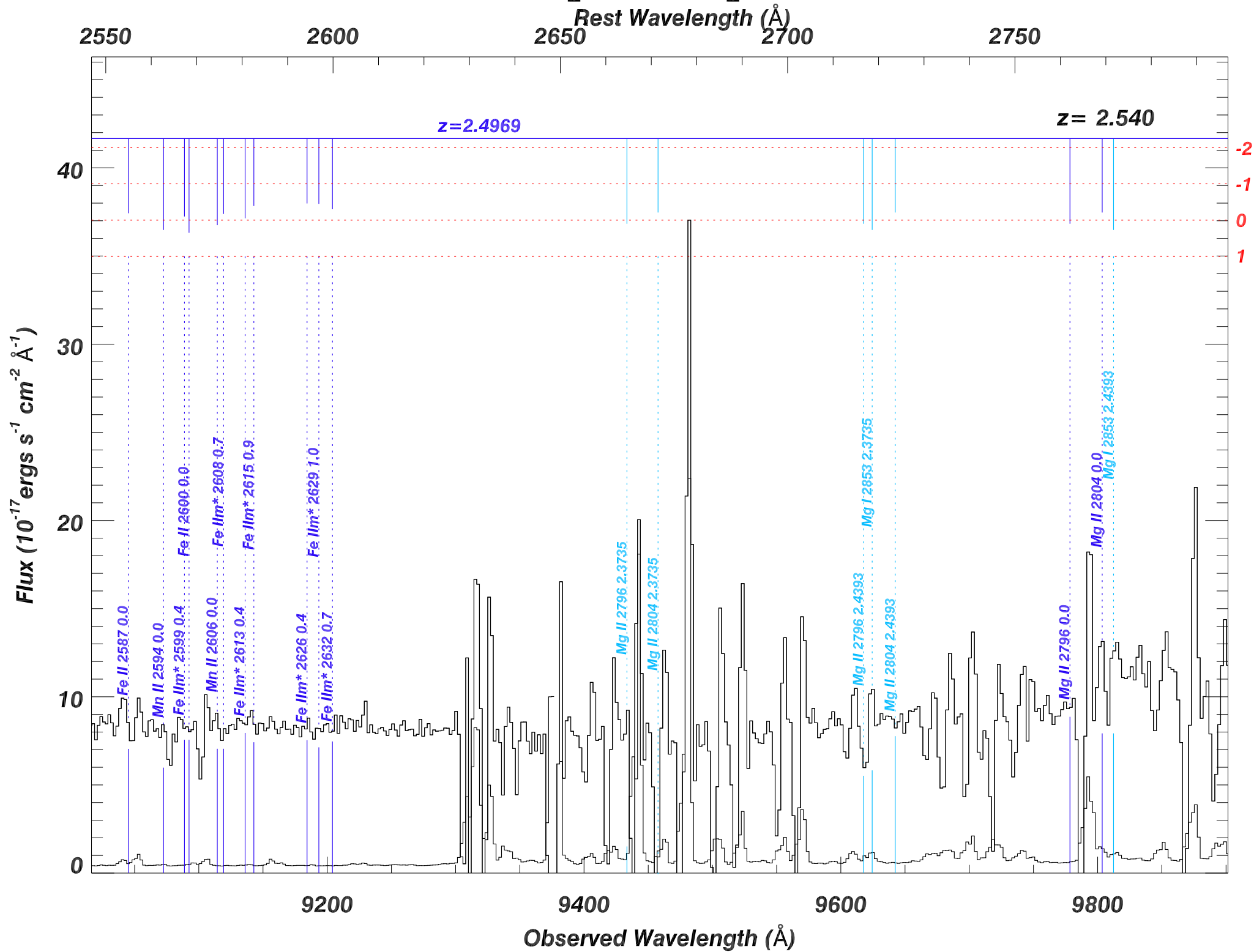
$\text{Mn II } 2606 0.0$

$\text{Fe III}^* 2608 0.7$

$\text{Mn II } 2577 0.0$



# SDSS\_J1116+2246\_MJD56304



# SDSS\_J1116+2246\_MJD56304

Rest Wavelength ( $\text{\AA}$ )

2800

2850

2900

2950

3000

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

25  
20  
15  
10  
5  
0

$z=2.4969$

$z=2.540$

-2  
-1  
0  
1

