

SDSS_J1137+6302_MJD56711

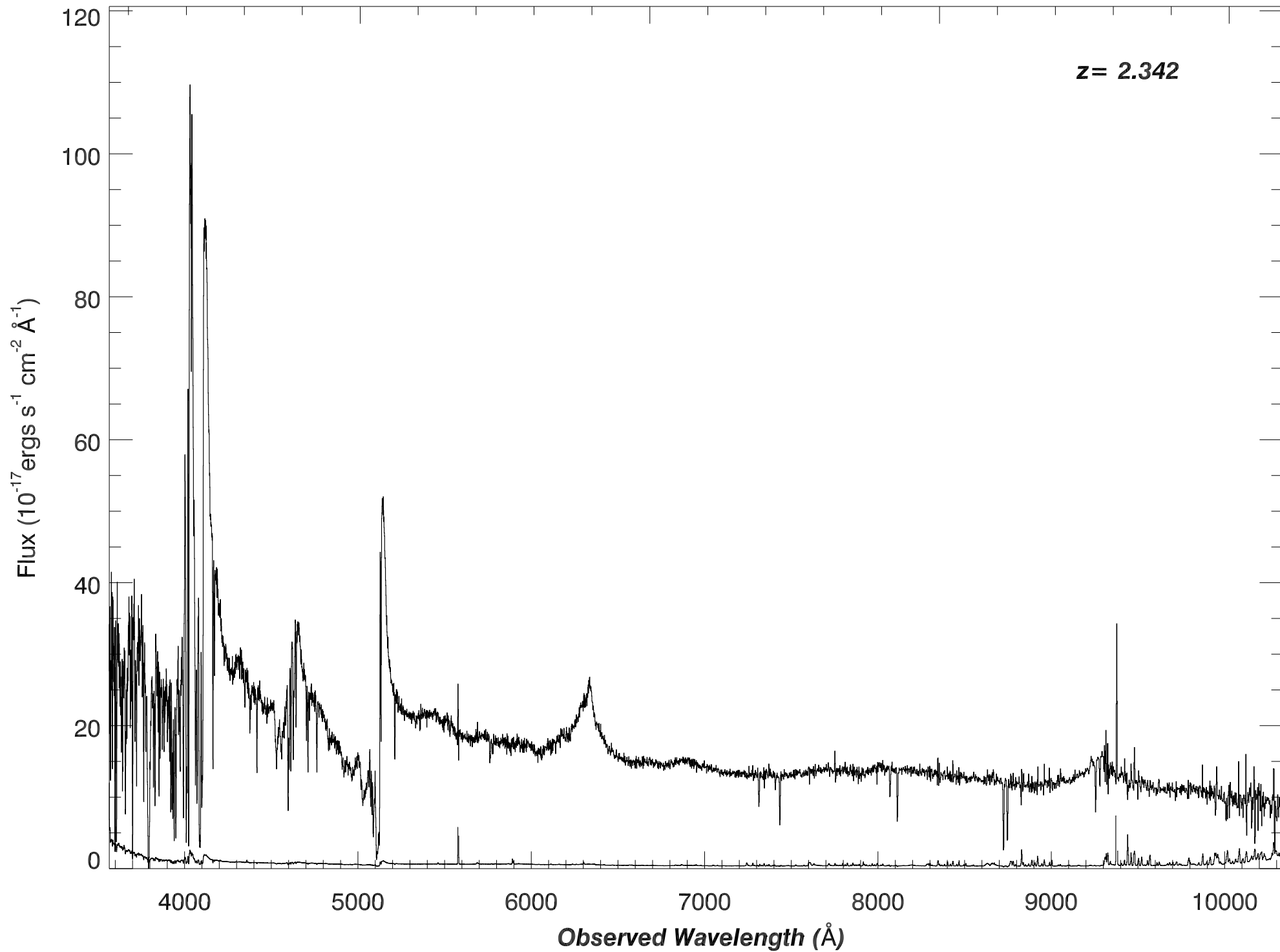
Rest Wavelength (\AA)

1500

2000

2500

3000



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

1100

1150

1200

1250

1300

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

120

100

80

60

40

20

0

-2

-1

0

1

 $z = 2.342$ $z = 2.2502$

3600

3800

4000

4200

4400

Observed Wavelength (\AA)

P.V. 1118 0.0

Fe III 1123 0.0

Fe III* 1127 0.4

Fe III* 1131 0.9

Fe III* 1131 0.9

H I 1216 2.1197

C III* 1176 52.4

N V 1239 2.1197

N V 1243 2.1197

Si III* 1197 0.3

Si III* 1197 0.3

Si III 1207 0.0

H I 1216 0.0

H I 1216 2.2990

H I 1216 2.3023

H I 1216 2.3099

N V 1239 0.0

N V 1239 2.2990

N V 1239 2.3023

N V 1239 2.3099

Si III* 1265 9.39

Si III* 1265 9.39

C I 1277 0.0

C III* 1278 0.04

C III* 1278 0.04

Si II 1260 2.2990

Si II 1260 2.3099

O I 1302 0.0

Si II* 1309 0.3

Si II* 1309 0.3

Si II 1304 0.0

C II 1335 0.0

C II* 1336 0.06

C II* 1336 0.06

Si IV 1403 2.1197

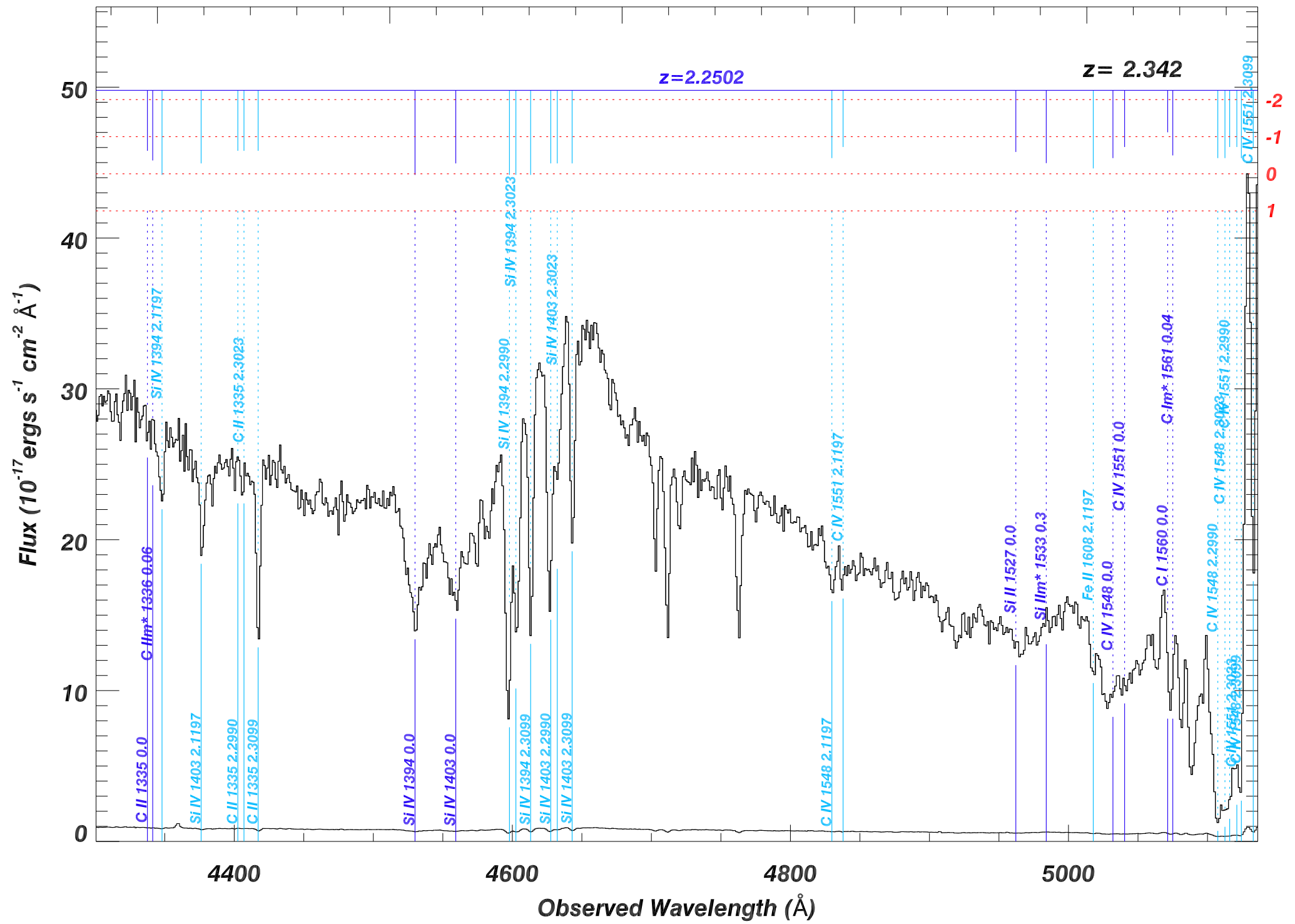
Si IV 1394 2.1197

Si IV 1394 2.1197

SDSS_J1137+6302_MJD56711

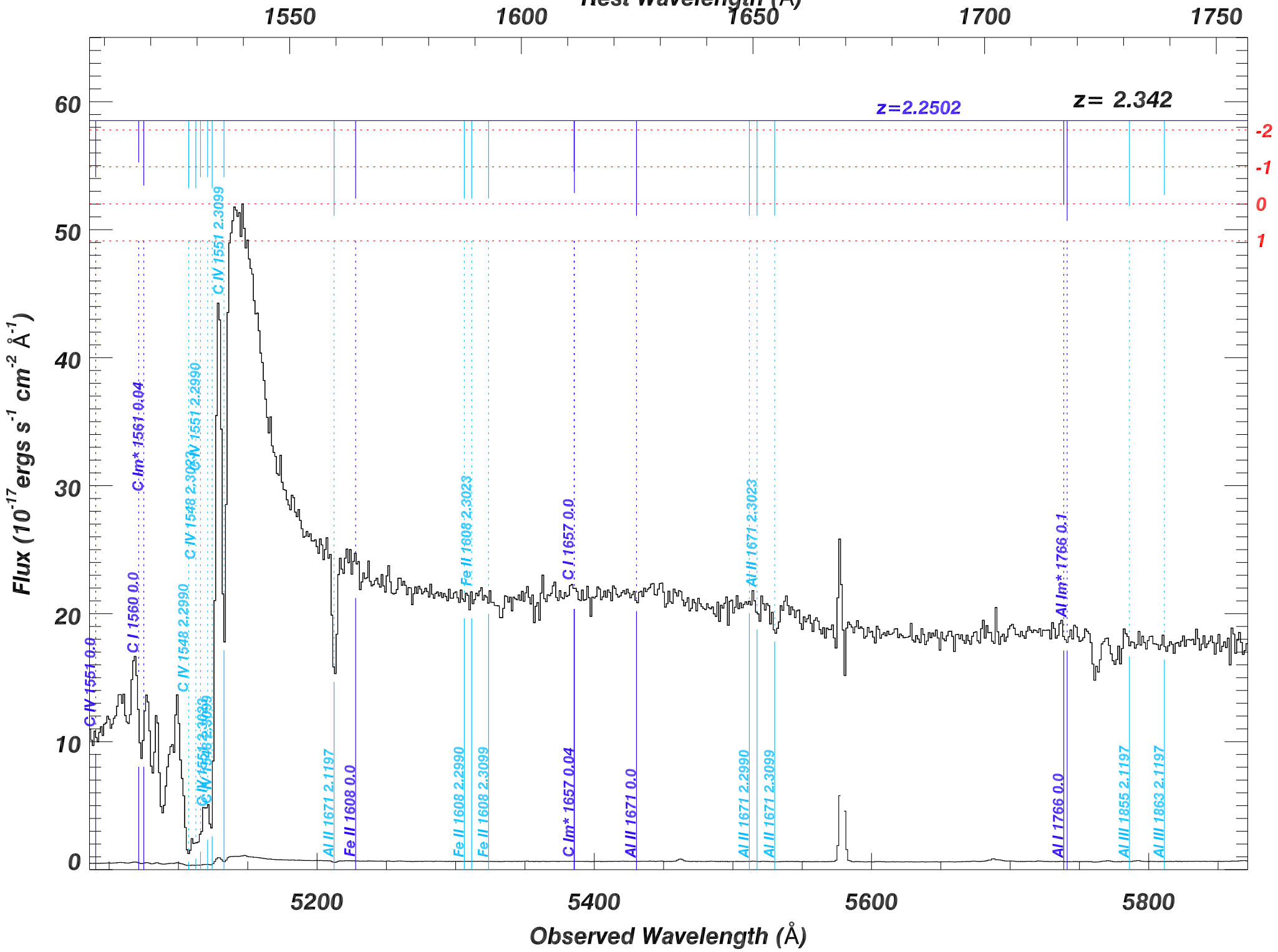
Rest Wavelength (\AA)

1300 1350 1400 1450 1500



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

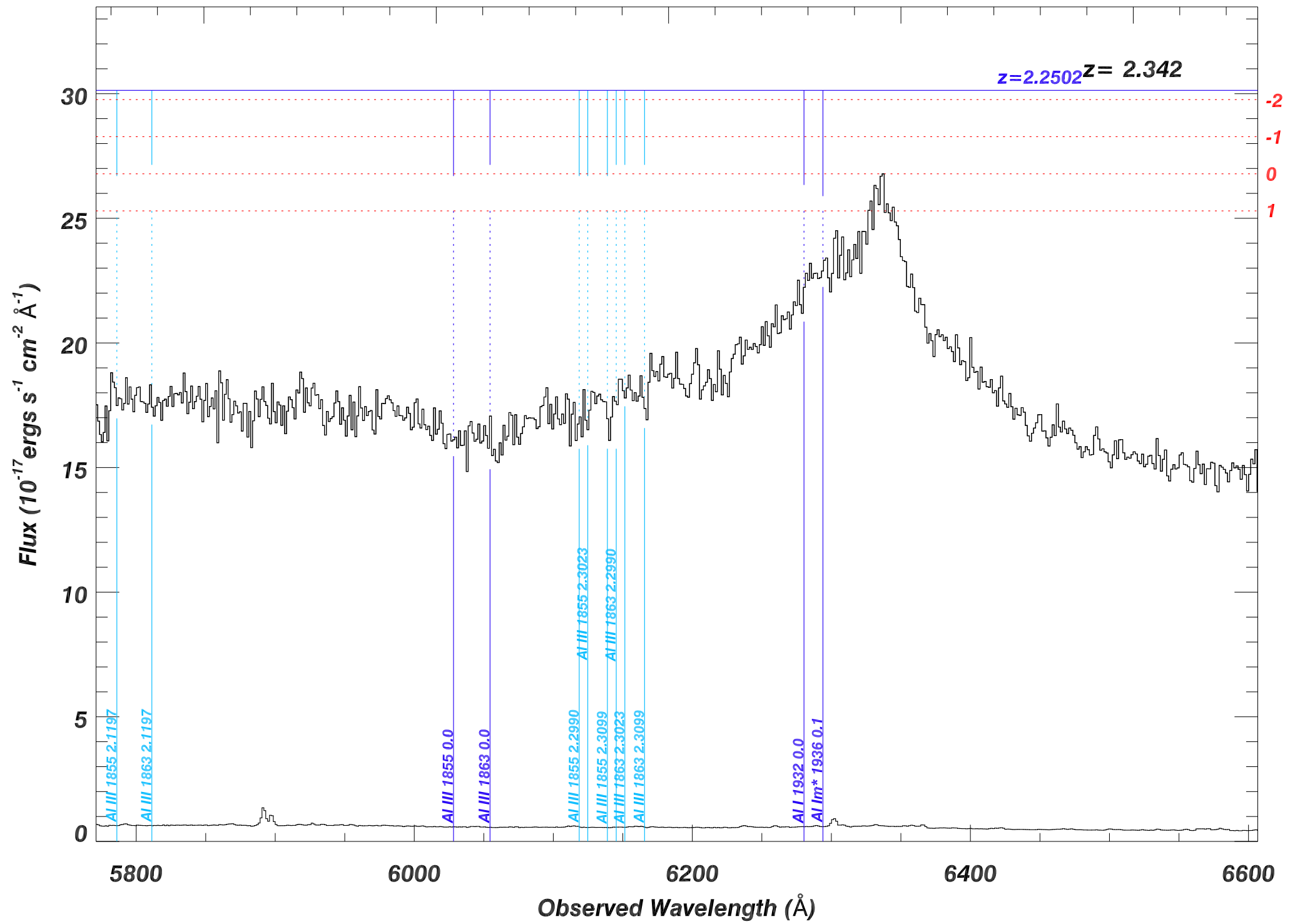
1750

1800

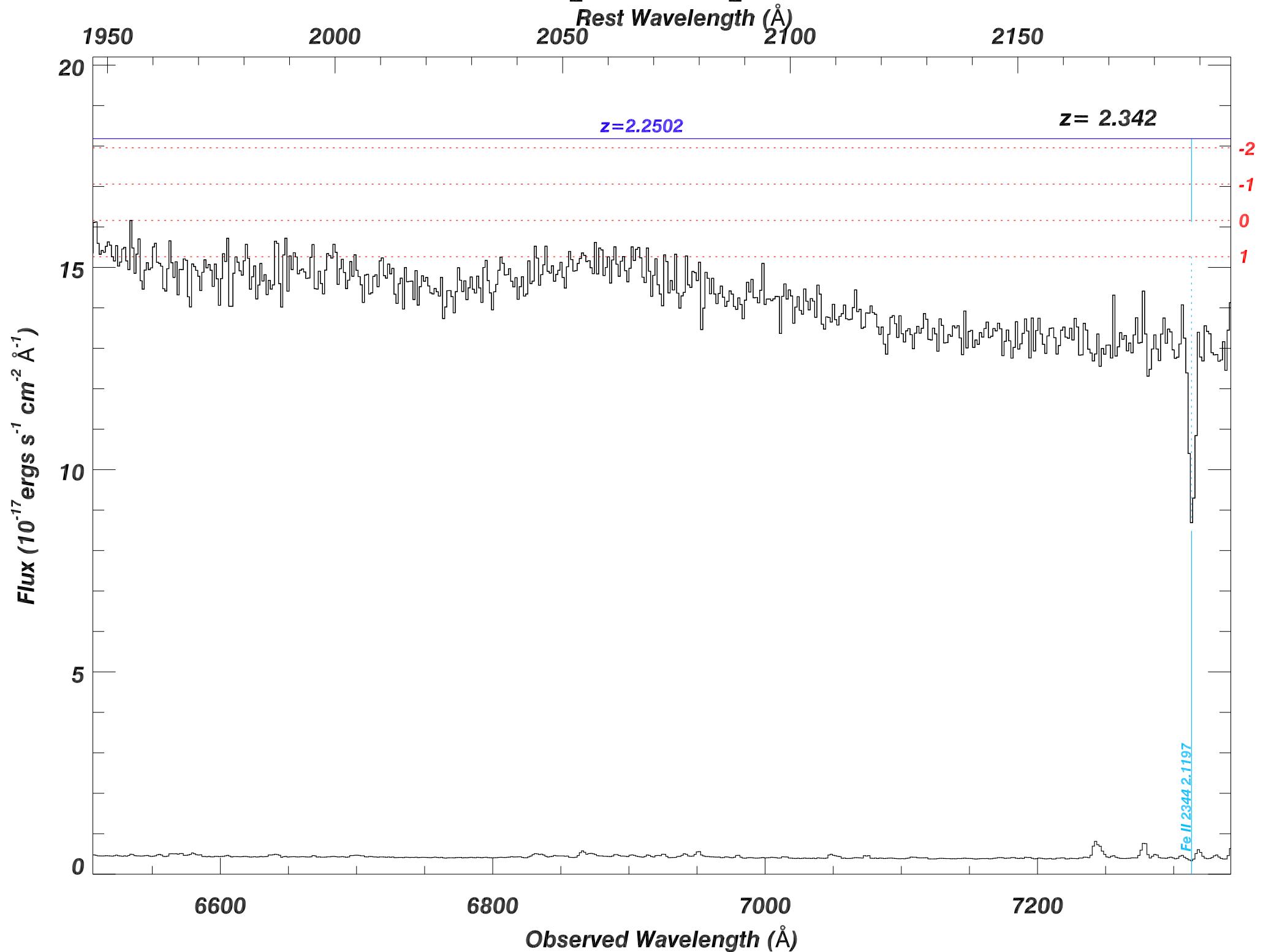
1850

1900

1950



SDSS_J1137+6302_MJD56711



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

2200

2250

2300

2350

2400

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

20

15

10

5

0

$z = 2.342$
 ~~$z = 2.382$~~

-2
-1
0
1

Fe II 2344 2.1197

Fe II 2374 2.1197

Fe II 2383 2.1197

Fe III* 2333 0.4

Fe III* 2339 0.9

Fe II 2344 0.0

Fe III* 2349 0.7

Fe III* 2366 0.4

Fe II 2374 0.0

Fe II 2344 2.2990

Fe II 2344 2.3023

Fe II 2383 0.0

Fe II 2344 2.3099

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* 2414 1.0

Fe III* 2414 1.0

Fe II 2374 2.2990

Fe II 2374 2.3099

Fe II 2383 2.3023

Fe II 2383 2.3099

Fe I 2484 0.0

Fe II 2587 2.1197

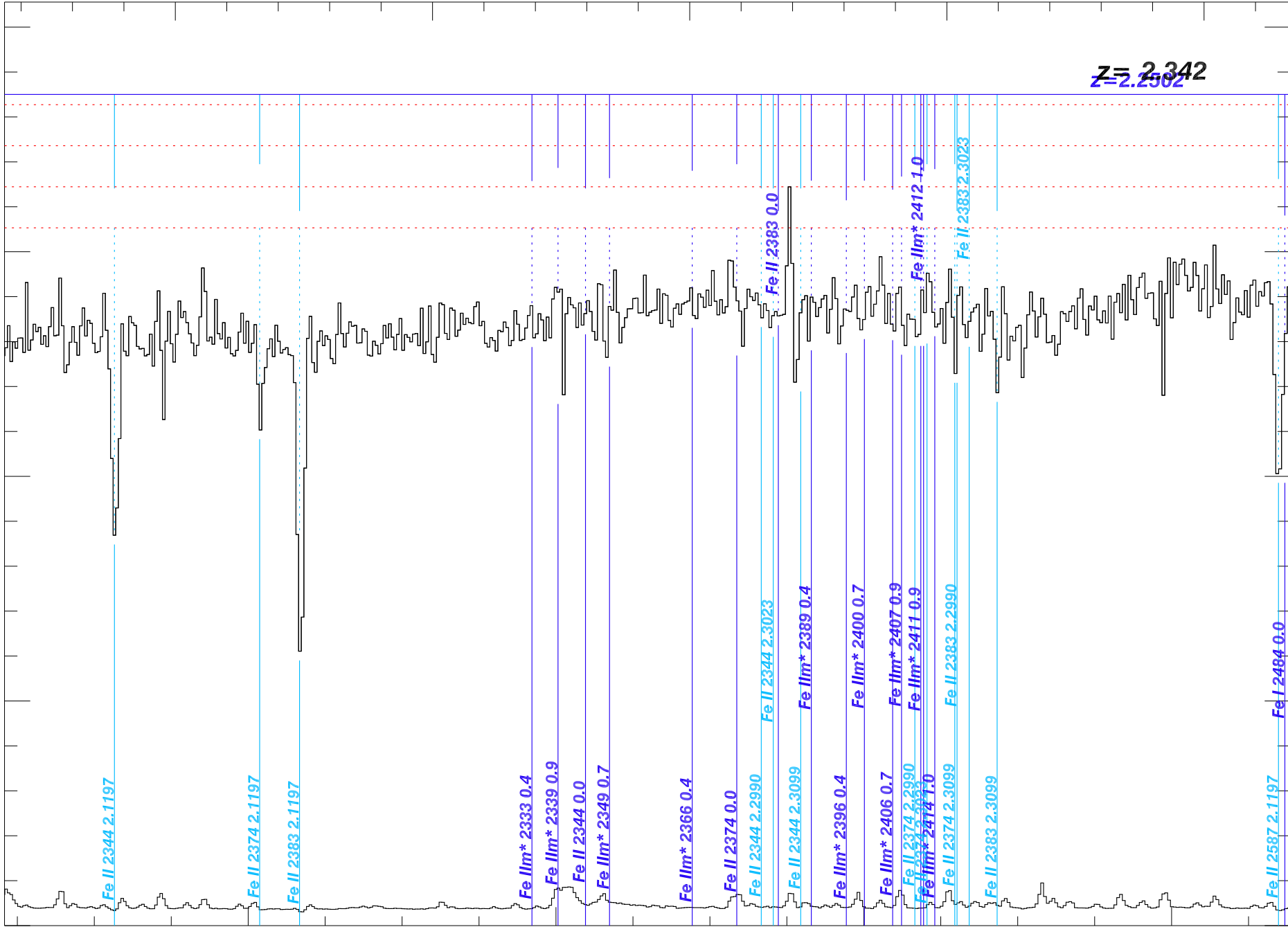
7400

7600

7800

8000

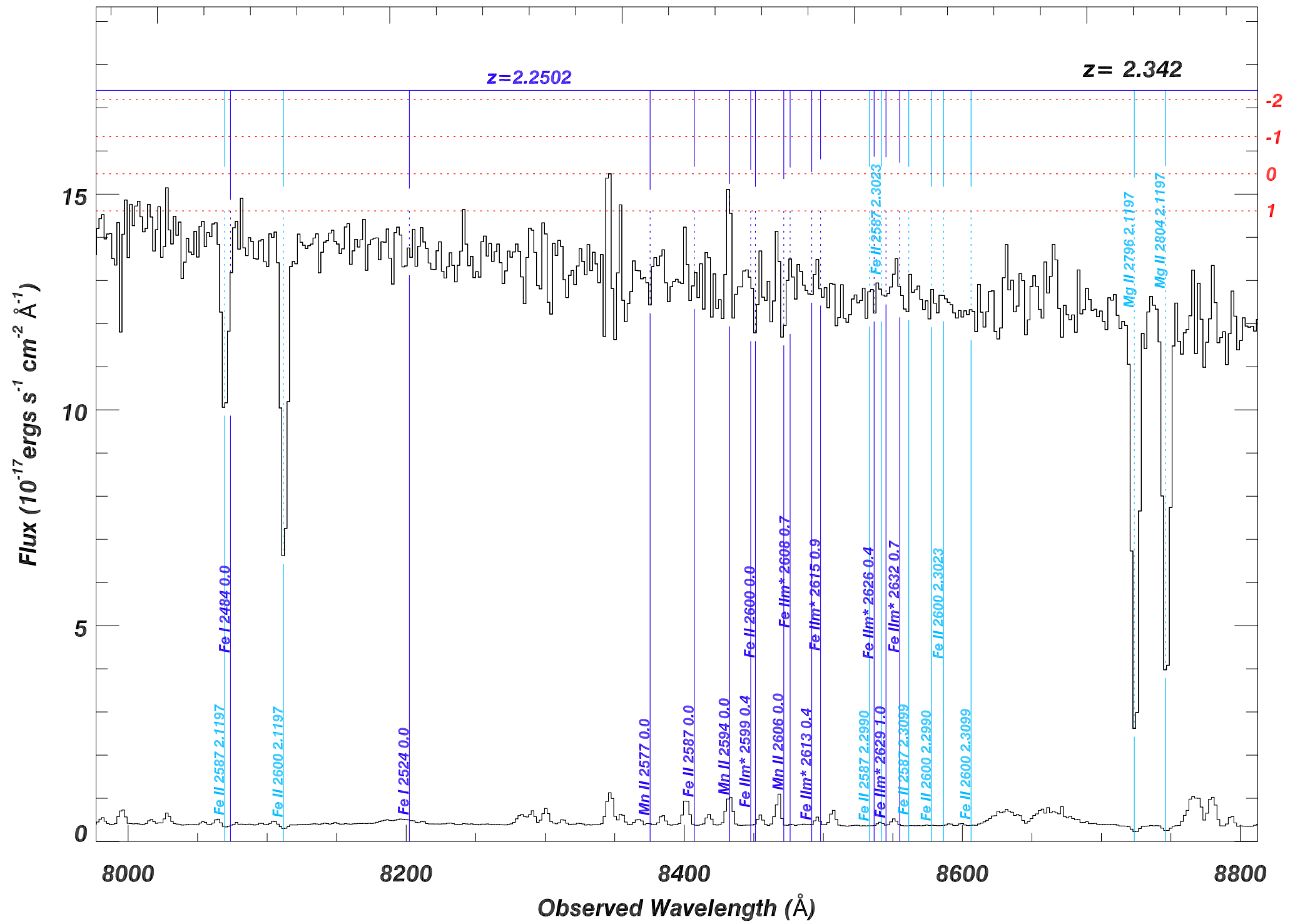
Observed Wavelength (\AA)



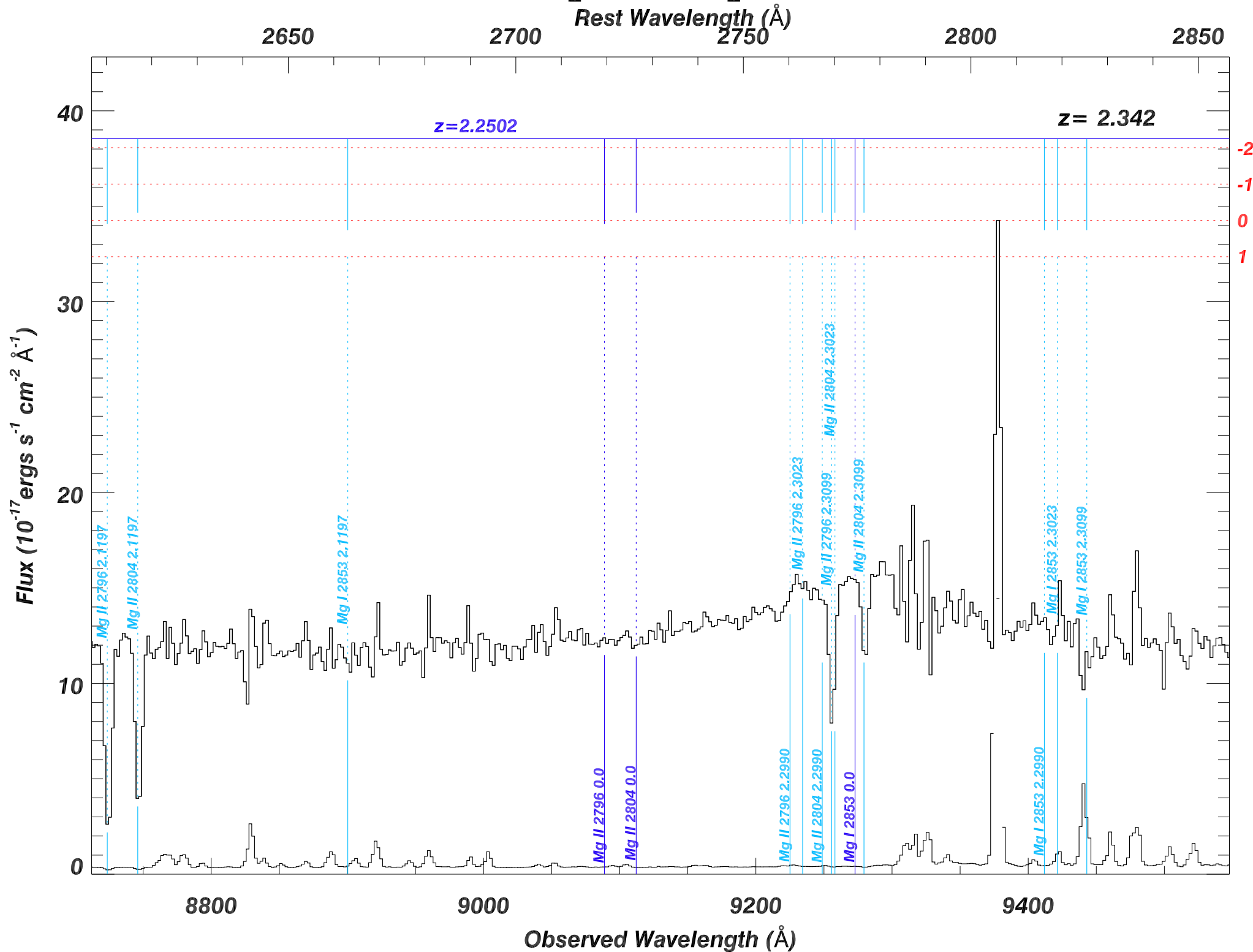
SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

2400 2450 2500 2550 2600



SDSS_J1137+6302_MJD56711



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

2850

2900

2950

3000

3050

$z=2.2502$

$z= 2.342$

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

20

15

10

5

0

-2

-1

0

1

9.60×10^3

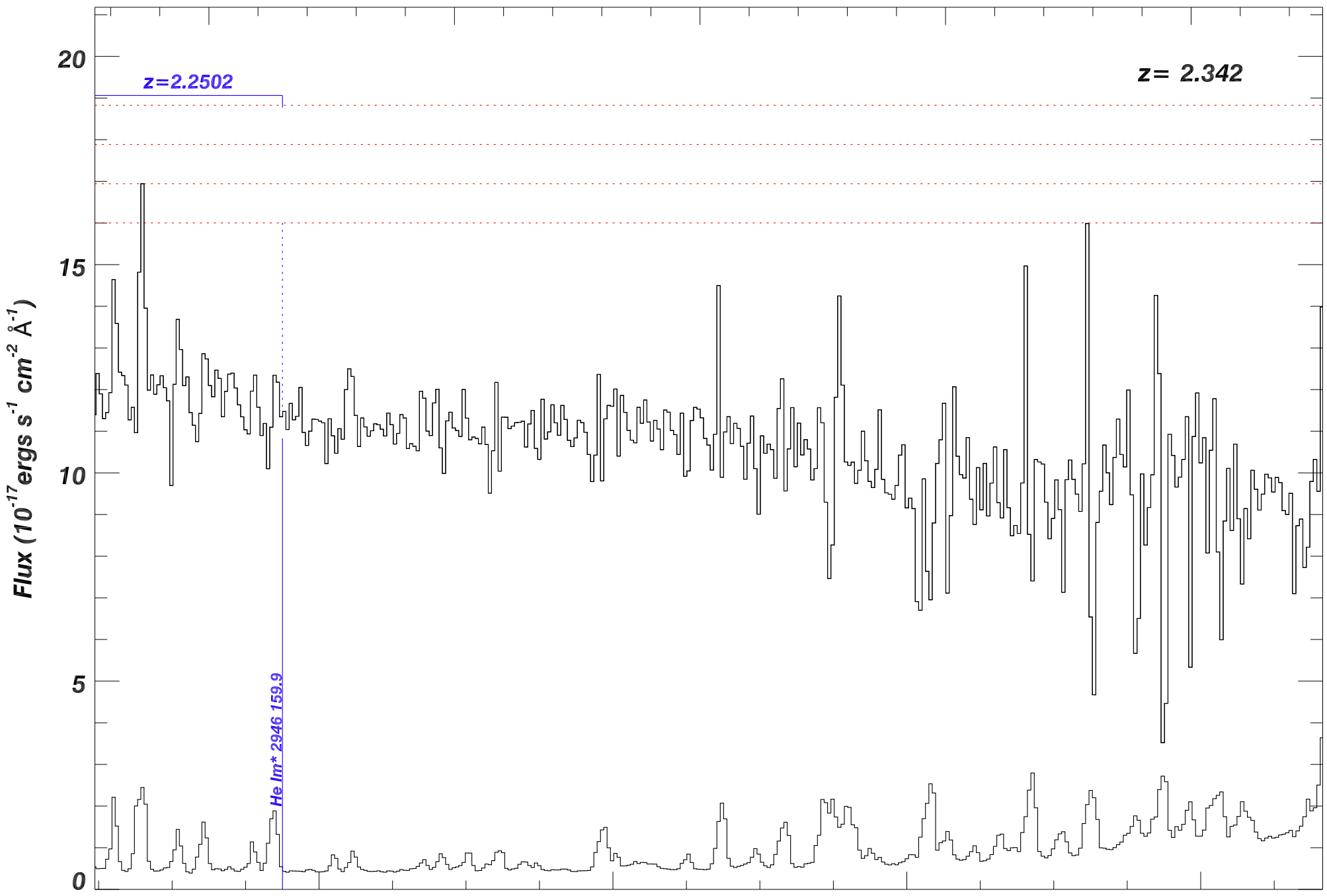
9.80×10^3

1.00×10^4

1.02×10^4

Observed Wavelength (\AA)

He I λ 2946



SDSS_J1137+6302_MJD56711

Rest Wavelength (\AA)

3100

3200

3300

3400

z = 2.342

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

15

10

5

0

1.02×10^4

1.04×10^4

1.06×10^4

1.08×10^4

1.10×10^4

1.12×10^4

1.14×10^4

Observed Wavelength (\AA)

-2

-1

0

1