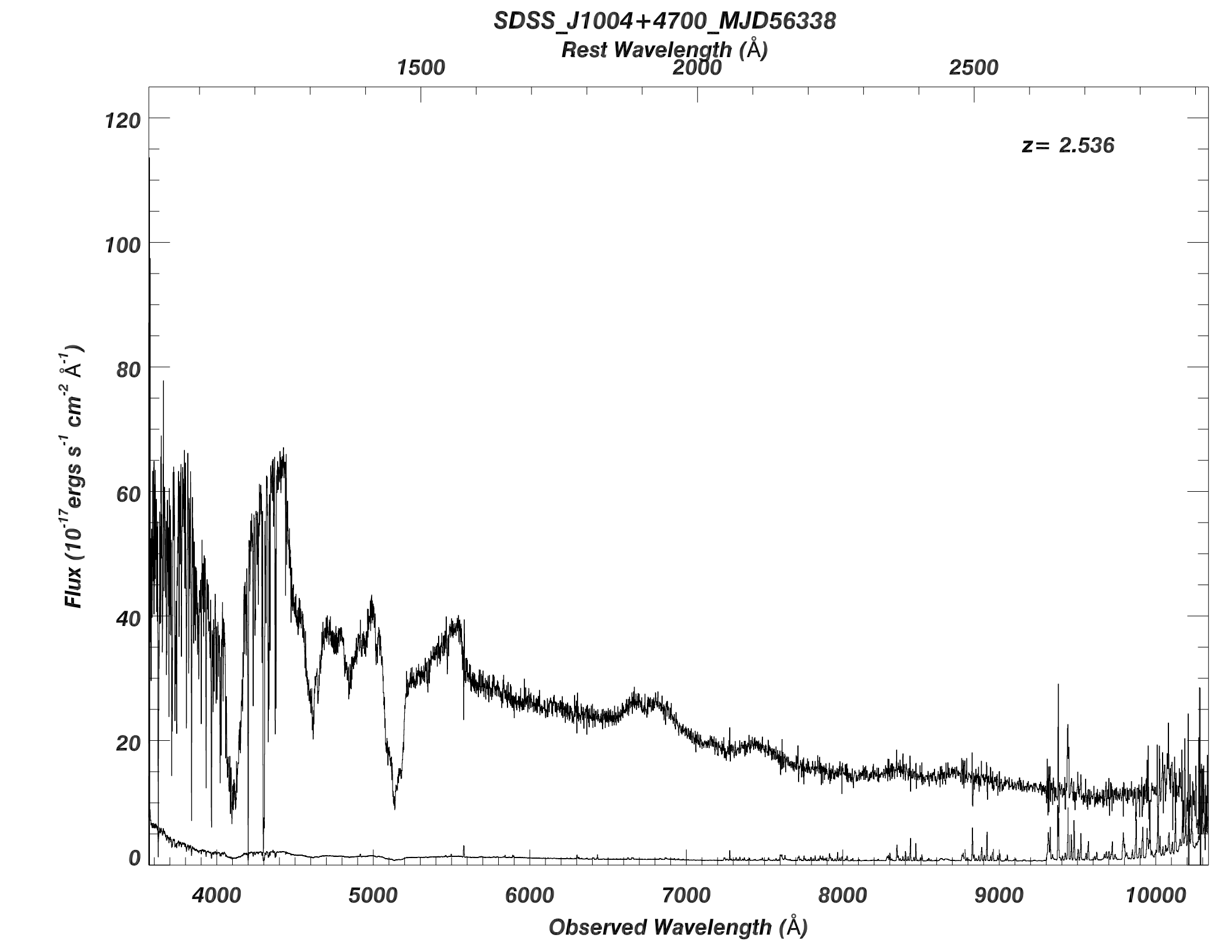
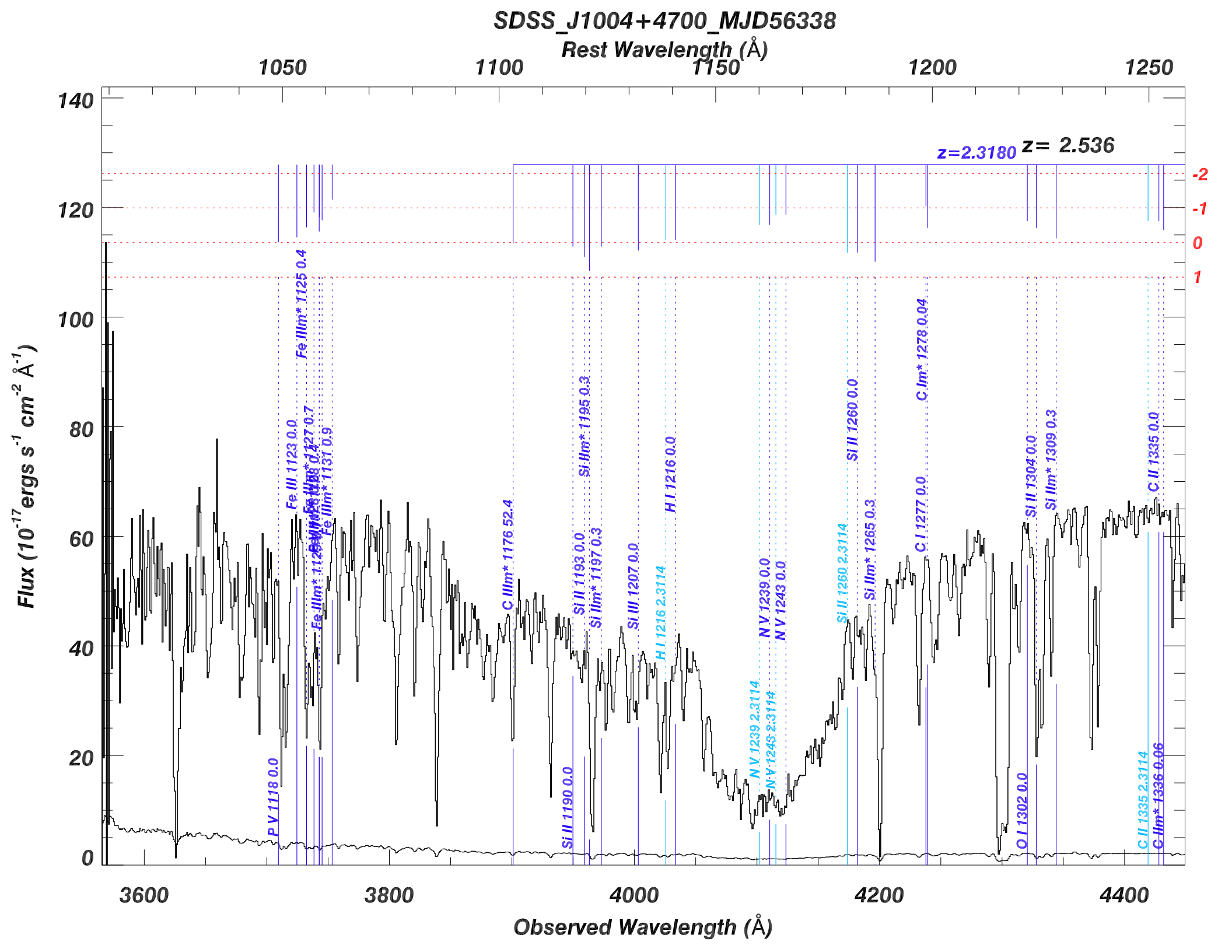
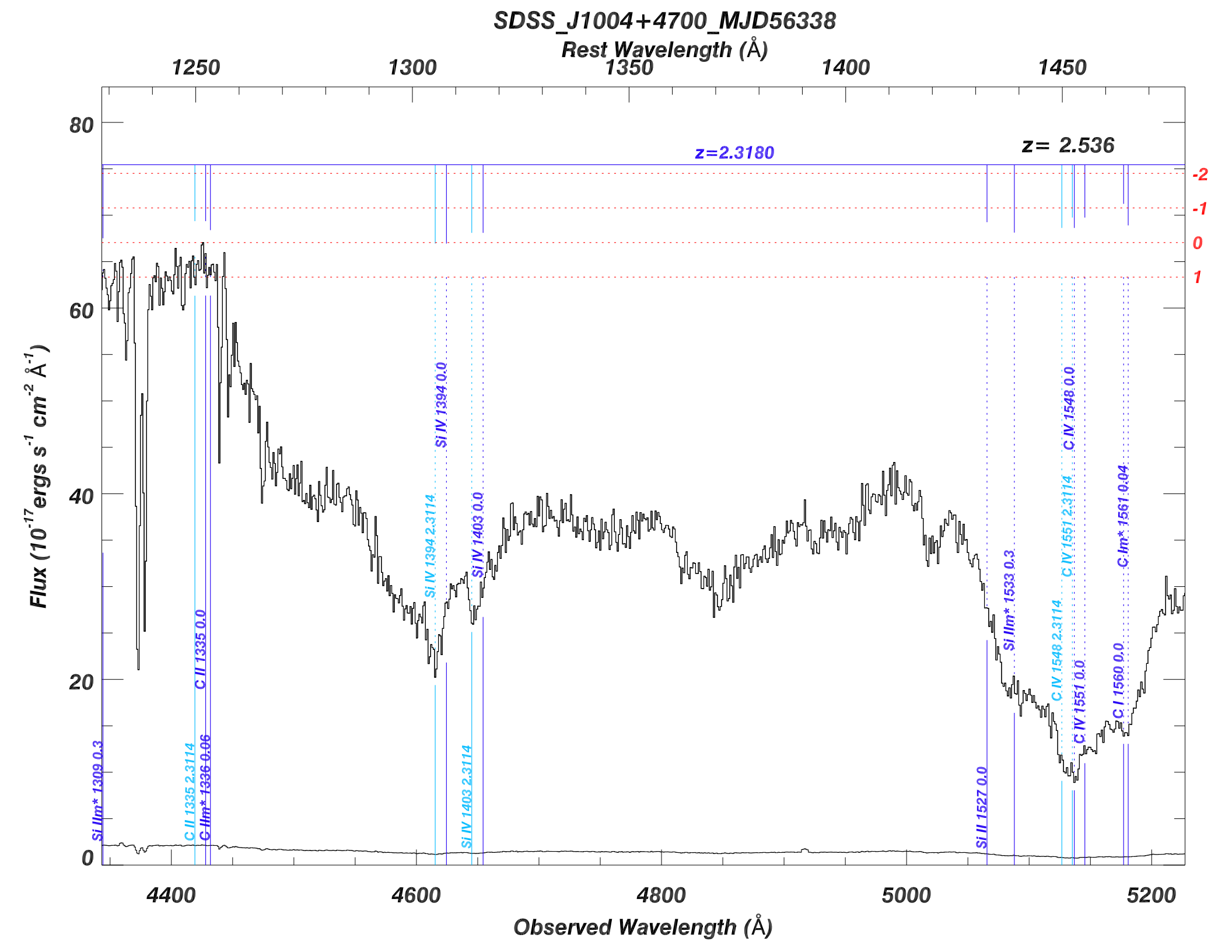
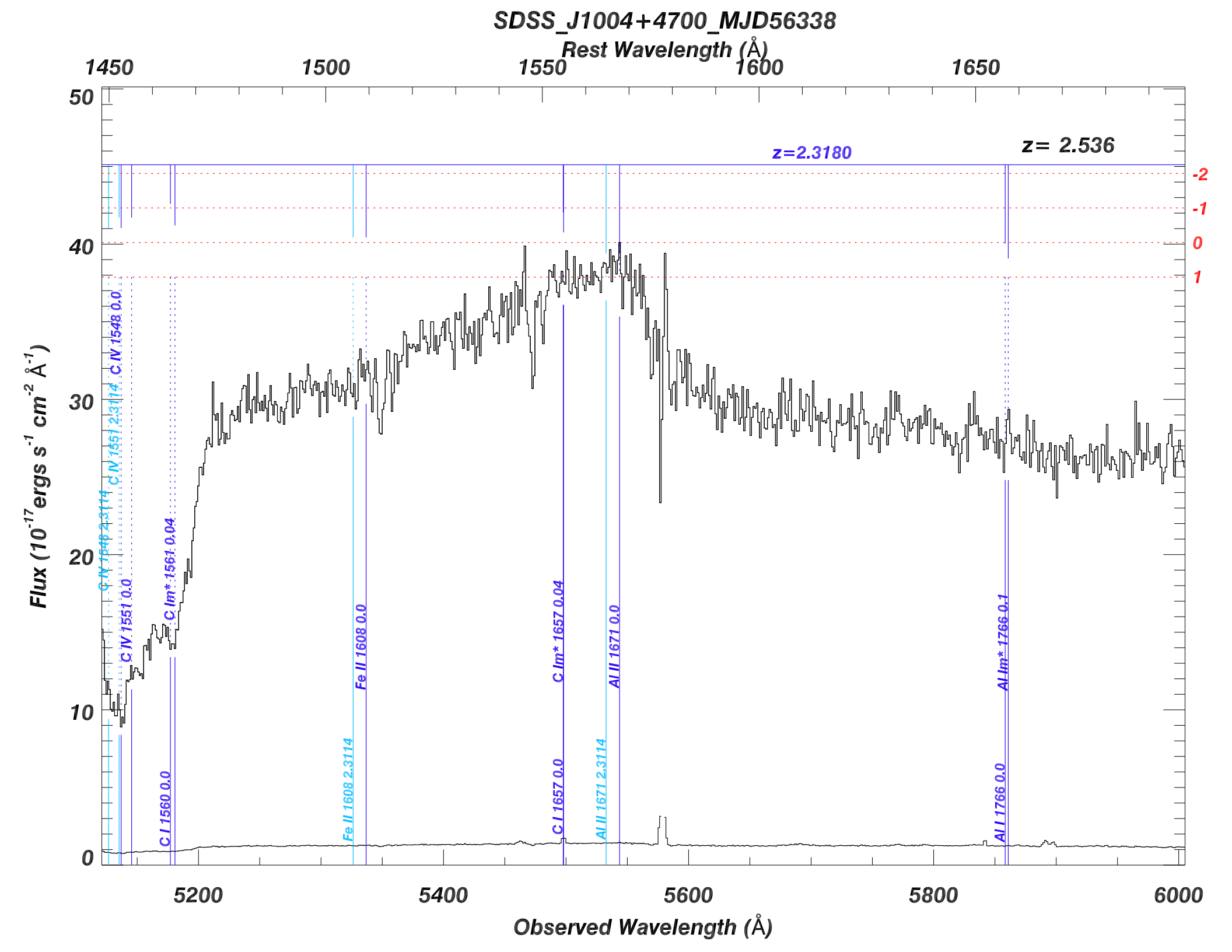
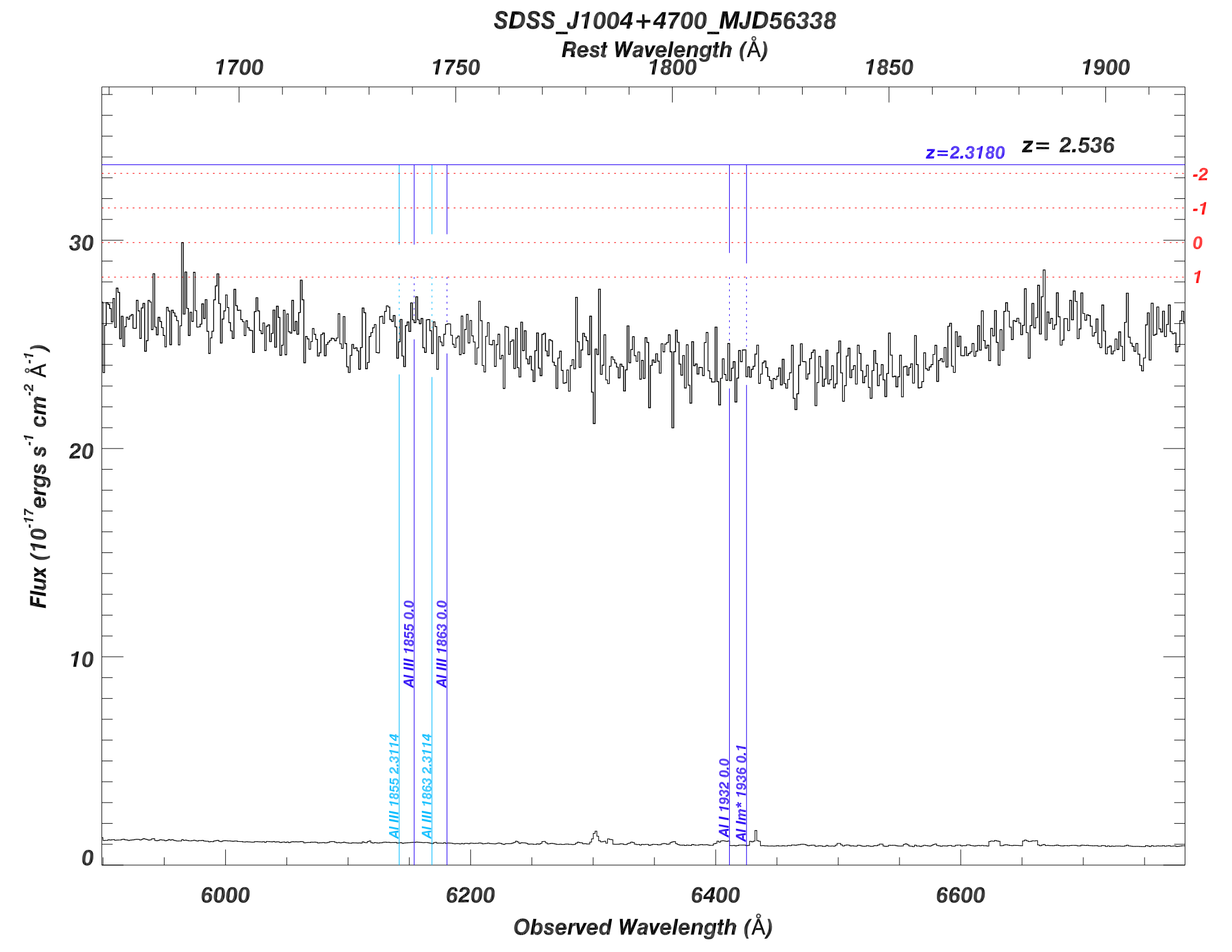
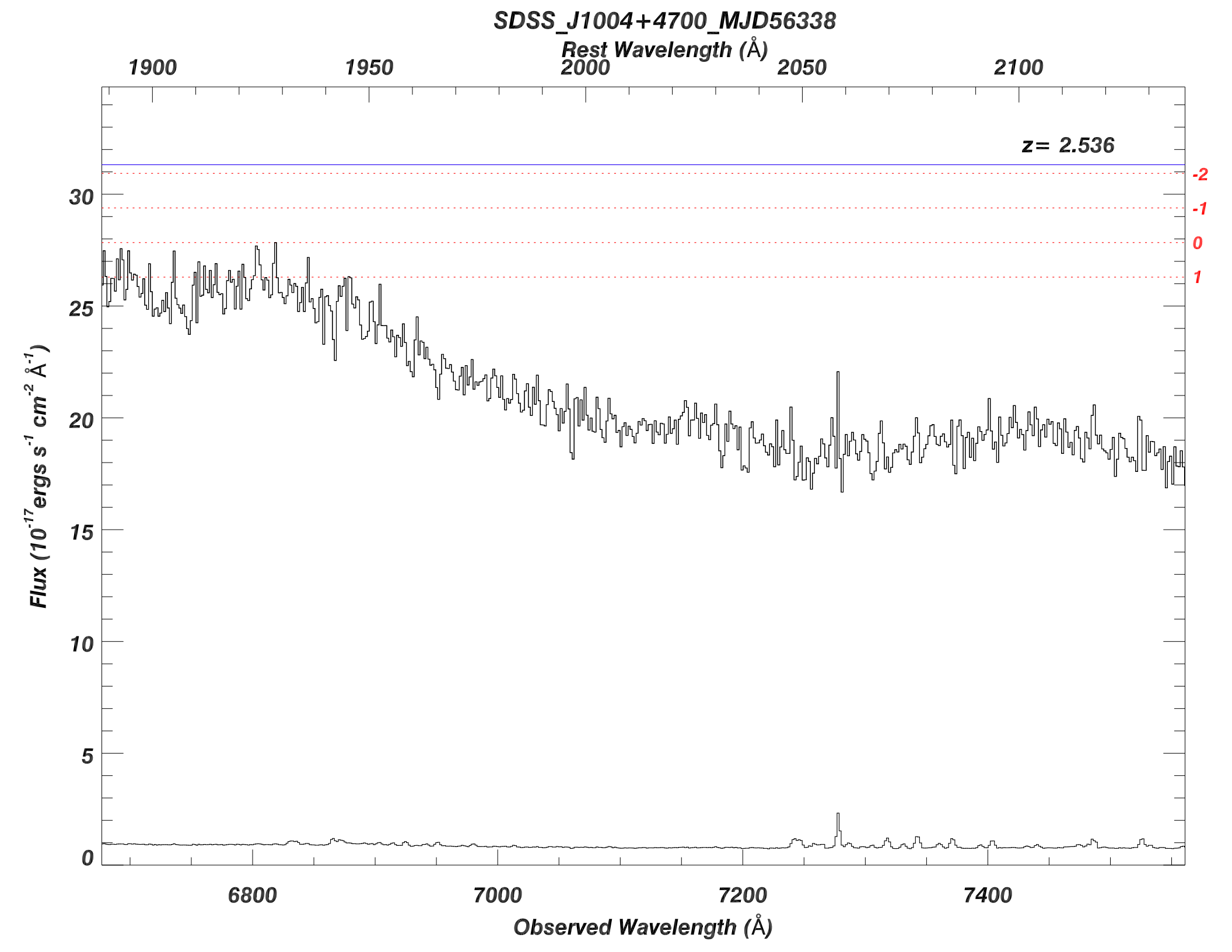

SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1500
2000
2500
z= 2.536
120
100
80
60
40
20
0
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
4000
5000
6000
7000
8000
9000
10000
Observed Wavelength (Å)

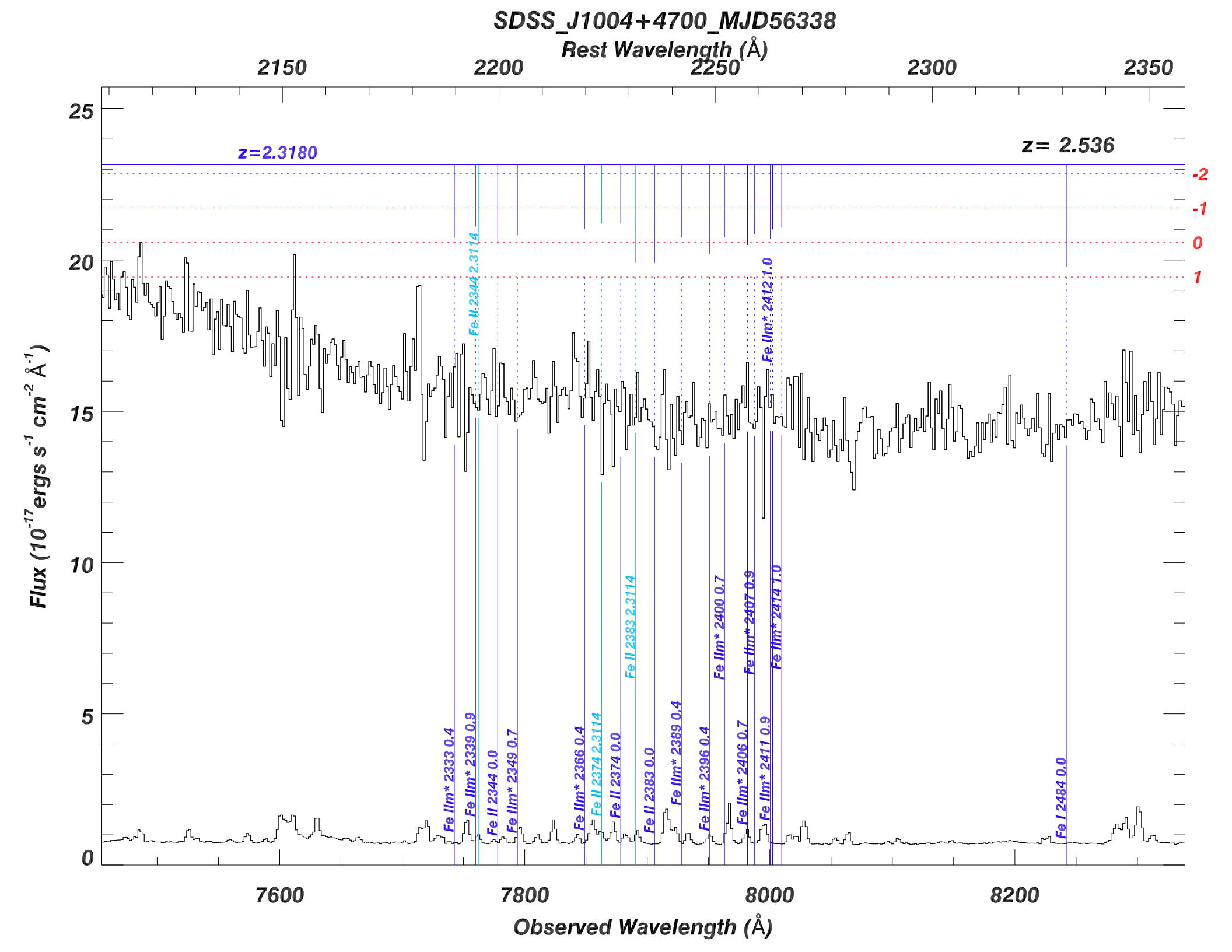

SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1050
1100
1150
1200
1250
z=2.3180
z= 2.536
-2
-1
0
1
P V 1118 0.0
Fe III 1123 0.0
Fe IIIm* 1125 0.4
Fe IIIm* 1127 0.7
Fe IIIm* 1131 0.9
C IIIm* 1176 52.4
Si II 1190 0.0
Si II 1193 0.0
Si IIm* 1195 0.3
Si IIm* 1197 0.3
Si III 1207 0.0
H I 1216 2.3114
H I 1216 0.0
N V 1239 2.3114
N V 1239 0.0
N V 1243 2.3114
N V 1243 0.0
Si II 1260 2.3114
Si II 1260 0.0
Si IIm* 1265 0.3
C I 1277 0.0
C IIm* 1278 0.04
O I 1302 0.0
Si II 1304 0.0
Si IIm* 1309 0.3
C II 1335 2.3114
C II 1335 0.0
C IIm* 1336 0.06
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
0
20
40
60
80
100
120
140
3600
3800
4000
4200
4400
Observed Wavelength (Å)

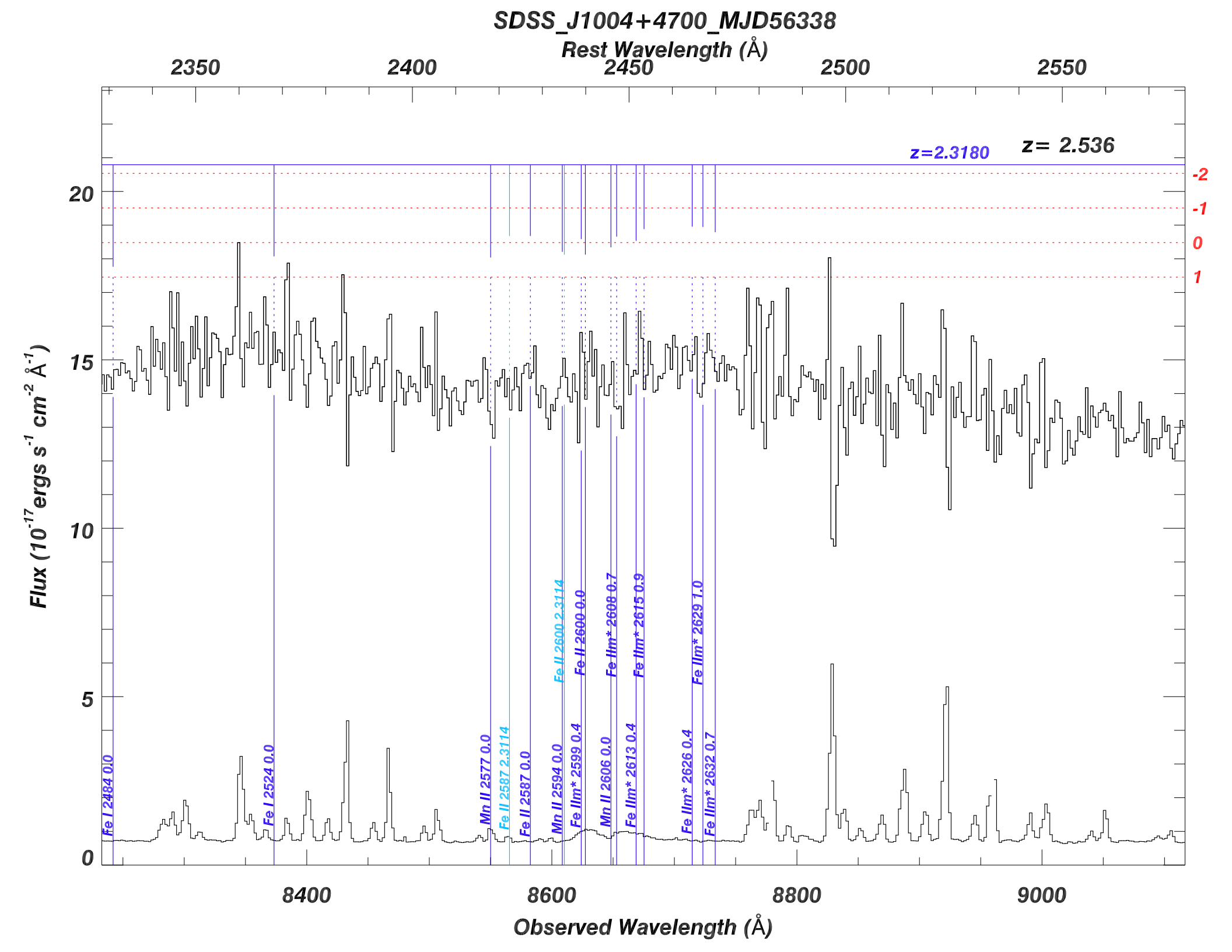

SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1250
1300
1350
1400
1450
z=2.3180
z= 2.536
-2
-1
0
1
Si IIm* 1309 0.3
C II 1335 2.3114
C II 1335 0.0
C IIm* 1336 0.06
Si IV 1394 2.3114
Si IV 1394 0.0
Si IV 1403 2.3114
Si IV 1403 0.0
Si II 1527 0.0
Si IIm* 1533 0.3
C IV 1548 2.3114
C IV 1551 2.3114
C IV 1548 0.0
C IV 1551 0.0
C I 1560 0.0
C Im* 1561 0.04
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
0
20
40
60
80
4400
4600
4800
5000
5200
Observed Wavelength (Å)

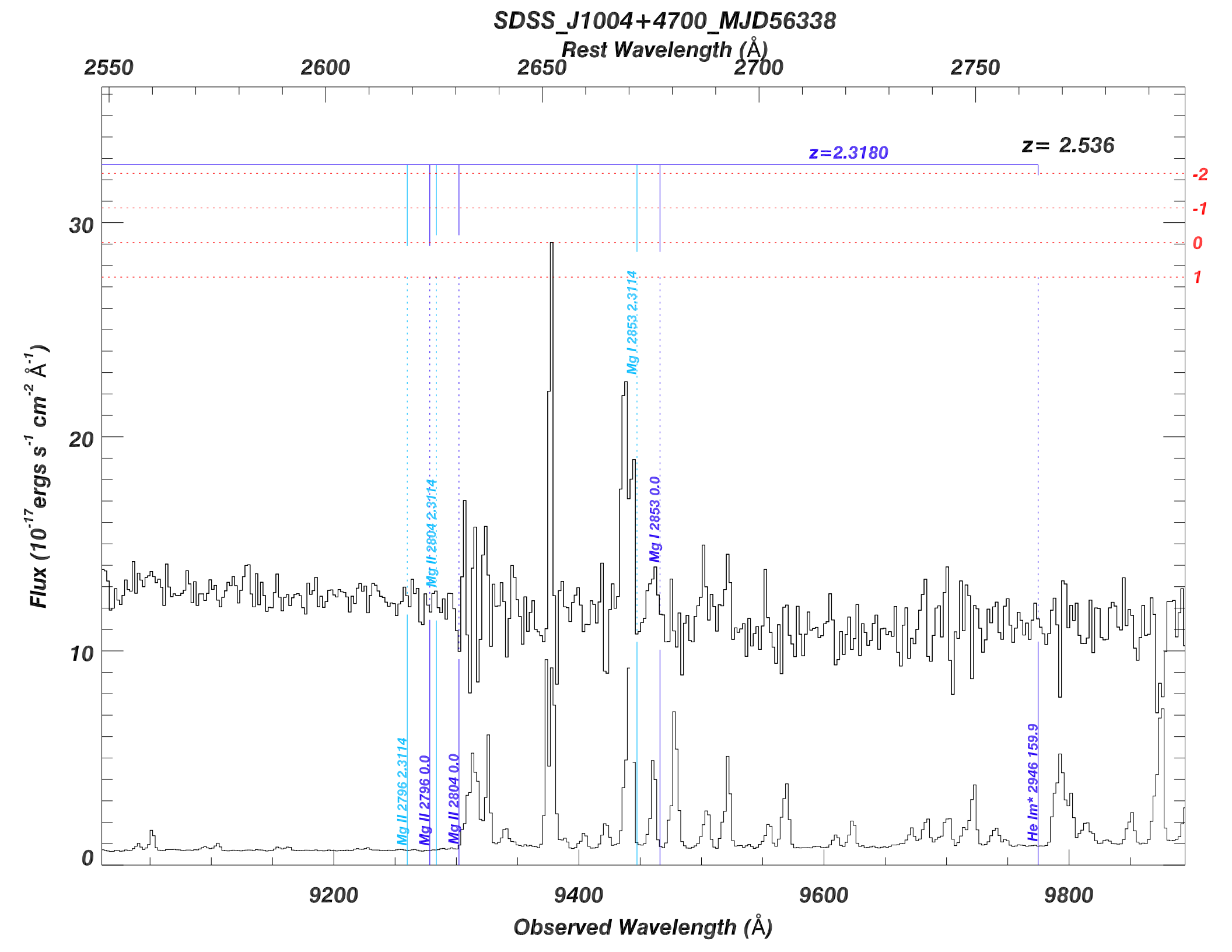

SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1450
1500
1550
1600
1650
z=2.3180
z= 2.536
-2
-1
0
1
C IV 1548 2.3114
C IV 1551 2.3114
C IV 1548 0.0
C IV 1551 0.0
C I 1560 0.0
C III* 1561 0.04
Fe II 1608 2.3114
Fe II 1608 0.0
C I 1657 0.0
C III* 1657 0.04
Al II 1671 2.3114
Al II 1671 0.0
Al II 1766 0.0
Al III* 1766 0.1
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
0
10
20
30
40
50
5200
5400
5600
5800
6000
Observed Wavelength (Å)

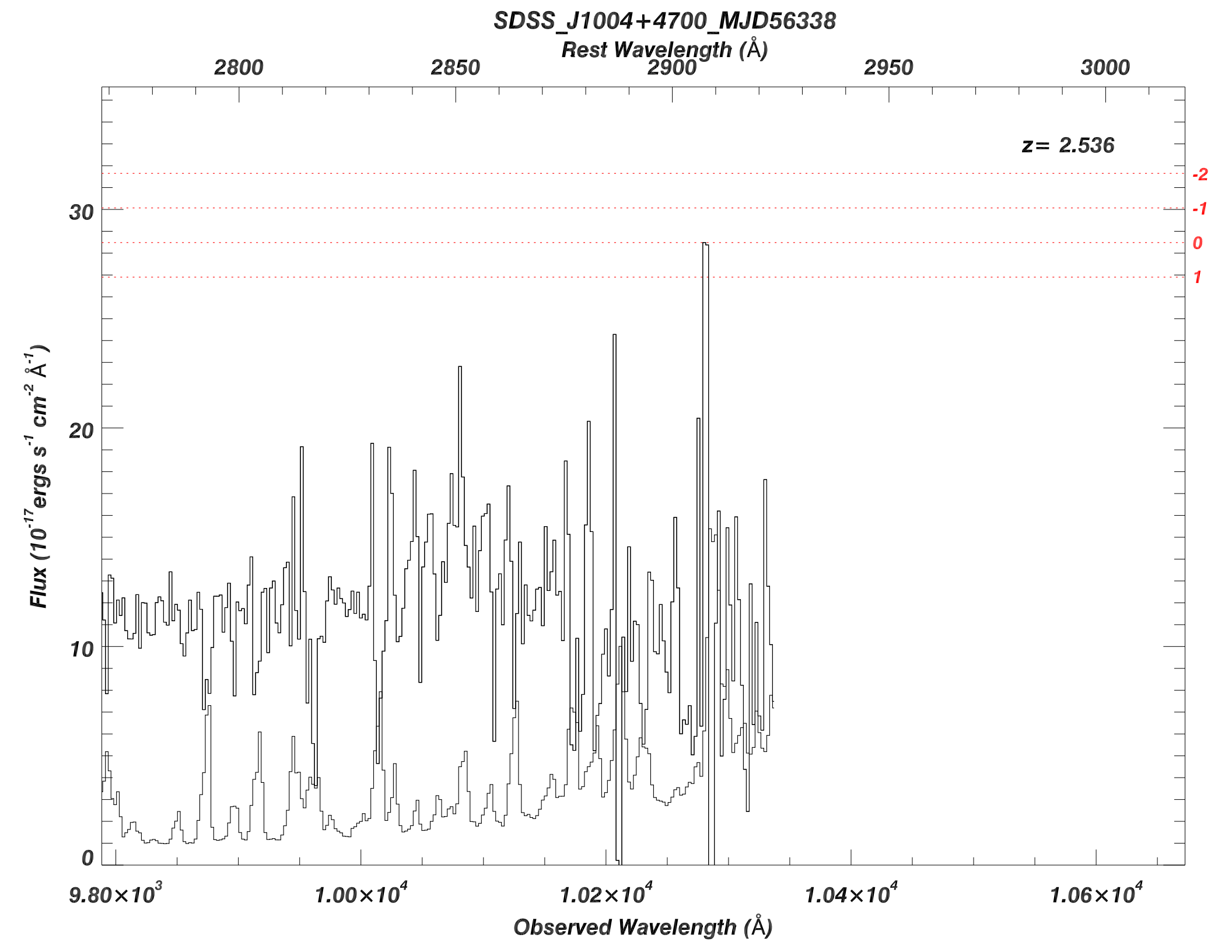

SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1700
1750
1800
1850
1900
z=2.3180
z= 2.536
-2
-1
0
1
30
20
10
0
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
Al III 1855 2.3114
Al III 1855 0.0
Al III 1863 2.3114
Al III 1863 0.0
Al I 1932 0.0
Al Im* 1936 0.1
6000
6200
6400
6600
Observed Wavelength (Å)


SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
1900
1950
2000
2050
2100
z= 2.536
-2
-1
0
1
30
25
20
15
10
5
0
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
6800
7000
7200
7400
Observed Wavelength (Å)


SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
2150
2200
2250
2300
2350
z=2.3180
z= 2.536
-2
-1
0
1
Fe II 2344 2.3114
Fe IIm* 2412 1.0
Fe IIm* 2333 0.4
Fe IIm* 2339 0.9
Fe II 2344 0.0
Fe IIm* 2349 0.7
Fe IIm* 2366 0.4
Fe II 2374 2.3114
Fe II 2374 0.0
Fe II 2383 2.3114
Fe II 2383 0.0
Fe IIm* 2389 0.4
Fe IIm* 2396 0.4
Fe IIm* 2400 0.7
Fe IIm* 2406 0.7
Fe IIm* 2407 0.9
Fe IIm* 2411 0.9
Fe IIm* 2414 1.0
Fe I 2484 0.0
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
0
5
10
15
20
25
7600
7800
8000
8200
Observed Wavelength (Å)


SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
2350
2400
2450
2500
2550
z=2.3180
z= 2.536
-2
-1
0
1
20
15
10
5
0
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Fe I 2484 0.0
Fe I 2524 0.0
Mn II 2577 0.0
Fe II 2587 2.3114
Fe II 2587 0.0
Mn II 2594 0.0
Fe II 2600 2.3114
Fe IIm* 2599 0.4
Fe II 2600 0.0
Mn II 2606 0.0
Fe IIm* 2608 0.7
Fe IIm* 2613 0.4
Fe IIm* 2615 0.9
Fe IIm* 2626 0.4
Fe IIm* 2629 1.0
Fe IIm* 2632 0.7
8400
8600
8800
9000
Observed Wavelength (Å)


SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
2550
2600
2650
2700
2750
z= 2.536
z=2.3180
-2
-1
0
1
30
20
10
0
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
Mg I 2853 2.3114
Mg I 2853 0.0
Mg II 2804 2.3114
Mg II 2796 2.3114
Mg II 2796 0.0
Mg II 2804 0.0
He Im* 2946 159.9
9200
9400
9600
9800
Observed Wavelength (Å)


SDSS_J1004+4700_MJD56338
Rest Wavelength (Å)
2800
2850
2900
2950
3000
z= 2.536
-2
-1
0
1
30
20
10
0
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
9.80×10^3
1.00×10^4
1.02×10^4
1.04×10^4
1.06×10^4
Observed Wavelength (Å)