

Table 9-1
High-Ionization Broad Absorption-Line Search List[†]

Ion	$\lambda(\text{\AA})^a$	S.A. ^b	U = -2.2		U = -1.7		U = -1.2	
			R.A. ^c	Depth ^d	R.A.	Depth	R.A.	Depth
H I	937.804	0.00	100.00	29.58	100.00	9.09	100.00	4.26
S VI	933.376	-4.72	0.06	1.74	1.36	10.03	8.12	25.03
S VI ^e	944.525	...	...	...	...	...	...	...
H I	949.743	0.00	100.00	46.57	100.00	15.66	100.00	7.48
P IV	950.657	-6.42	0.01	0.95	0.04	0.86	0.03	0.27
H I	972.537	0.00	100.00	72.84	100.00	29.83	100.00	14.92
C III	977.026	-3.35	15.57	99.54	15.49	76.63	10.08	35.06
N III	989.790	-4.04	2.96	13.27	2.53	3.25	1.01	0.60
S III	1012.504	-4.72	0.97	1.54	0.96	0.41	0.20	0.04
H I	1025.722	0.00	100.00	97.15	100.00	61.96	100.00	35.66
O VI	1031.927	-3.13	0.36	3.14	11.28	23.57	178.42	85.62
O VI ^e	1037.615	...	...	...	...	...	...	...
C II	1036.337	-3.35	0.51	2.82	0.16	0.24	0.03	0.02
S IV	1062.671	-4.72	0.62	1.05	2.06	0.94	1.40	0.29
Fe III	1122.526	-4.48	0.01	0.02	0.00	0.00	0.00	0.00
P V	1117.977	-6.42	0.00	0.07	0.02	0.20	0.05	0.19
P V ^e	1128.008	...	...	...	...	...	...	...
S III	1190.206	-4.72	0.97	0.98	0.96	0.26	0.20	0.03
Si II	1193.290	-4.43	0.04	1.00	0.01	0.09	0.00	0.00
Si III	1206.500	-4.43	1.19	58.88	0.95	17.59	0.22	2.01
H I	1215.670	0.00	100.00	100.00	100.00	99.38	100.00	90.17
N V	1238.821	-4.04	0.87	8.50	9.26	22.71	42.34	41.57
N V ^e	1242.804	...	...	...	...	...	...	...
Si II	1260.422	-4.43	0.04	1.91	0.01	0.17	0.00	0.01
C II	1334.532	-3.35	0.51	2.66	0.16	0.23	0.03	0.02
Si IV	1393.755	-4.43	1.64	44.09	4.05	32.37	2.82	11.67
Si IV ^e	1402.770	...	...	...	...	...	...	...
C IV	1548.202	-3.35	22.93	95.02	84.37	95.02	184.93	95.02
C IV ^e	1550.774	...	...	...	...	...	...	...
Al II	1670.787	-5.51	0.02	1.78	0.01	0.16	0.00	0.01
Al III	1854.716	-5.51	0.10	3.49	0.09	0.93	0.02	0.11
Al III ^e	1862.790	...	...	...	...	...	...	...
Mg II	2796.352	-4.40	0.03	1.29	0.01	0.07	0.00	0.00
Mg II ^e	2803.531	...	...	...	...	...	...	...

[†]Suitable for ground-based study of BALQSOs with $z_e \lesssim 3$. Lines selected from the search list of Morton *et al.* (1988). ^aVacuum wavelength. ^b \log_{10} solar elemental abundance relative to hydrogen. ^cPercentage ionic abundance relative to neutral hydrogen ($H^0=100$). ^dPercentage depth of BAL trough, $(1 - \text{residual intensity}) \times 100$, scaled such that the optical depth of C IV $\lambda 1549$ is 3. ^eRed component of doublet, oscillator strength combined with blue component.