

SWMU	FIELD SAMPLE ID	LOCATION ID	DEPTH (FT)	MEDIA CODE	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Cyanide (Total)	Iron	Lead
Soil Background Value [mg/kg]					29200	0.83	8.17	295	1.83	0.4	6120	19.3	8.64	14.7	0.5	21500	22.3
Canyon Sediment Background Value [mg/kg]					15400	0.83	3.98	127	1.31	0.4	4420	10.5	4.73	11.2	0.82	13800	19.7
Qbt2,3,4 Background Value [mg/kg]					7340	0.5	2.79	46	1.21	1.63	2200	7.14	3.14	4.66	0.5	14500	11.2
Qbt1v Background Value [mg/kg]					8170	0.5	1.81	26.5	1.7	0.4	3700	2.24	1.78	3.26	0.5	9900	18.4
Qbt1g, Qct, Qbo Background Value [mg/kg]					3560	0.5	0.56	25.7	1.44	0.4	1900	2.6	8.89	3.96	0.5	3700	13.5
PRS 12-001(a) Sample association	RE12-10-7838	12-610693	0 to 0.5	ALLH	14000	1.22 (U)	2.39	203 (J)	0.976	0.609 (U)	2260	11.7	5.76 (J-)	9.31	0.275 (U)	14500	14.4
PRS 12-001(a) Sample association	RE12-10-7839	12-610693	2 to 2.7	ALLH	17600	1.13 (U)	1.94	209 (J)	0.931	0.566 (U)	2370	14.7	5.83 (J-)	7.95	0.272 (U)	15200	14.8
PRS 12-001(a) Sample association	RE12-10-7840	12-610694	0 to 0.7	ALLH	9340	1.19 (U)	2.04	136 (J)	0.745	0.597 (U)	2100	9.34	4.36 (J-)	7.67	0.266 (U)	11800	11
PRS 12-001(a) Sample association	RE12-10-7841	12-610694	3 to 3.4	ALLH	16000	1.15	2.37	407 (J)	1.24	0.276 (J)	2420	67.6	22.8 (J-)	8.5	0.274 (U)	16500	22.5
PRS 12-001(a) Sample association	RE12-10-7842	12-610695	0 to 1	ALLH	13400	1.14 (U)	2.03	226 (J)	0.878	0.569 (U)	2130	24.5	17.3 (J-)	7.96	0.102 (J)	13900	18.4
PRS 12-001(a) Sample association	RE12-10-7843	12-610695	2 to 2.4	ALLH	14500	1.09 (U)	2.26	195 (J)	1.01	0.544 (U)	2120	20	5.76 (J-)	7.06	0.279 (U)	13300	13.1
PRS 12-001(a) Sample association	RE12-10-7844	12-610696	0 to 0.75	ALLH	7520	1.14 (U)	1.31	150 (J)	0.523	0.571 (U)	2320	27.1	4.19 (J-)	8.09	0.288 (U)	10700	8.71
PRS 12-001(a) Sample association	RE12-10-7845	12-610696	2 to 2.6	ALLH	14000	1.06 (U)	2.09	225 (J)	0.914	0.154 (J)	3160	13.3	12.4 (J-)	8.17	0.27 (U)	15000	15
PRS 12-001(a) Sample association	RE12-10-7846	12-610697	0 to 0.5	ALLH	12600	1.13 (U)	1.86	192 (J)	0.793	0.565 (U)	2060	18.1	6.31 (J-)	7.14	0.249 (U)	13500	14.4
PRS 12-001(a) Sample association	RE12-10-7847	12-610697	1.4 to 1.8	ALLH	15300	1.09 (U)	1.94	211 (J)	0.961	0.545 (U)	2240	36.8	7.27 (J-)	7.29	0.269 (U)	14800	14.4
PRS 12-001(a) Sample association	RE12-10-7848	12-610698	0 to 0.75	ALLH	11000	1.16 (UJ)	1.83	180 (J+)	0.718	0.207 (J)	2280	17	6.34	11	0.286 (U)	15800	41
PRS 12-001(a) Sample association	RE12-10-7849	12-610698	2 to 3	ALLH	14500	1.08 (UJ)	2.77	232 (J+)	0.965	0.265 (J)	2290	12.6	6.99	8.43	0.26 (U)	16300	16.3
PRS 12-001(a) Sample association	RE12-10-7850	12-610699	0 to 0.5	ALLH	10600	1.22 (UJ)	1.84	190 (J+)	0.81	0.234 (J)	2490	43	6.05	9.36	0.311 (U)	14400	15
PRS 12-001(a) Sample association	RE12-10-7851	12-610699	2 to 2.5	ALLH	13400	1.05 (UJ)	2.36	224 (J+)	1	0.31 (J)	2650	13.3	7.49	8.03	0.264 (U)	15300	16.2
PRS 12-001(a) Sample association	RE12-10-7852	12-610700	0 to 0.6	ALLH	11200	1.14 (UJ)	1.8	200 (J+)	0.9	0.21 (J)	2210	31	6.11	7.63	0.269 (U)	13800	15.4
PRS 12-001(a) Sample association	RE12-10-7853	12-610700	2 to 3.5	ALLH	12800	1.08 (UJ)	2.12	206 (J+)	0.853	0.165 (J)	3160	14.3	5.7	7.38	0.0765 (J)	14600	16.7
PRS 12-001(a) Sample association	RE12-10-7854	12-610701	0 to 0.6	ALLH	9660	1.15 (U)	2.03	209	1.02	0.574 (U)	2280	13.3	6.56	10.4	0.259 (U)	13900	15.2
PRS 12-001(a) Sample association	RE12-10-7855	12-610701	2 to 3	QBT3	11400	1.05 (U)	1.87	243	1.05	0.523 (U)	2400	11.5	7.08	7.07	0.265 (U)	13600	14.7
PRS 12-001(a)-99 Sample association	RE12-10-7697	12-610666	0 to 0.5	ALLH	19200	0.795 (U)	2.65	222	1.44	0.574 (U)	2650	20	6.76	11.5	0.271 (U)	17200	16.1
PRS 12-001(a)-99 Sample association	RE12-10-7698	12-610666	1 to 2	ALLH	17600	1.11 (U)	2.27	195	1.45	0.555 (U)	2210	12.7	5.89	9.49	0.257 (U)	16200	12.2
PRS 12-001(a)-99 Sample association	RE12-10-7699	12-610667	0 to 0.5	ALLH	9430	0.433 (U)	2.4	101	0.806	0.601 (U)	1830	42.9	4.86	5.92	0.314 (U)	16000	12
PRS 12-001(a)-99 Sample association	RE12-10-7700	12-610667	1 to 2	QBT3	3750	1.03 (U)	1.03	49.2	0.349	0.516 (U)	990	22.9	1.38	3.3	0.267 (U)	12100	3.85
PRS 12-001(a)-99 Sample association	RE12-10-7701	12-610668	0 to 1	SED	5340	1.28 (U)	1.56	59.9	0.457	0.228 (J)	988	8.36	2.01	6.67	0.336 (U)	13500	10.7
PRS 12-001(a)-99 Sample association	RE12-10-7702	12-610668	1 to 1.9	QBT3	3850	1.08 (U)	1.34	31.1	0.532	0.542 (U)	721	11.4	1.03	2.62	0.294 (U)	9650	3.8
PRS 12-001(a)-99 Sample association	RE12-10-7703	12-610669	0 to 0.7	ALLH	13800	1.45 (U)	2.21	218	1.16	0.599 (U)	2630	69.8	6.95	8.02	0.101 (J)	14300	14.4
PRS 12-001(a)-99 Sample association	RE12-10-7704	12-610669	1 to 2.1	ALLH	16600	0.581 (U)	2.39	237	1.36	0.548 (U)	2260	12.8	6.99	8.15	0.242 (U)	15900	15.2
PRS 12-001(a)-99 Sample association	RE12-10-7705	12-610670	0 to 0.7	ALLH	6290	1.13 (U)	1.32	75.9	0.548	0.565 (U)	1010	19.2	3.8	7.87	0.287 (U)	12200	7.65
PRS 12-001(a)-99 Sample association	RE12-10-7706	12-610670	1 to 2	QBT3	10800	0.438 (U)	1.78	102	0.816	0.532 (U)	1850	14.7	3.15	6.6	0.268 (U)	14600	8.61
PRS 12-001(a)-99 Sample association	RE12-10-7707	12-610671	0 to 0.3	ALLH	7330	1.26 (U)	2.16	96.9	0.645	0.187 (J)	1850	23.9	4.52	7.15	0.318 (U)	14100	13.9
PRS 12-001(a)-99 Sample association	RE12-10-7708	12-610671	1 to 2	QBT3	10800	0.99 (U)	1.77	197	0.675	0.133 (J)	2780	12.4	5.7	6.77	0.235 (U)	14000	15.4
PRS 12-001(a)-99 Sample association	RE12-10-7709	12-610672	0 to 0.8	ALLH	5440	0.724 (U)	1.75	72.5	0.78	0.204 (J)	1670 (J+)	14.5	2.18	5.3	0.265 (U)	11700	11 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7710	12-610672	1 to 2.8	QBT3	2380	1.04 (U)	0.746 (J)	23.2 (J)	0.326	0.519 (U)	591	12.8	0.805	1.87	0.502	9540	3.17
PRS 12-001(a)-99 Sample association	RE12-10-7711	12-610673	0 to 0.9	ALLH	4640	1.2 (U)	1.91	56.3	0.668	0.194 (J)	1360 (J+)	11.3	1.8	5.36	0.267 (U)	10500	9.35 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7712	12-610673	1 to 1.9	QBT3	3820	0.372 (U)	0.997 (J)	28.7	0.877	0.188 (J)	772 (J+)	11.1	0.801	3.63	0.279 (U)	10600	3.45 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7713	12-610674	0 to 0.1	ALLH	4600	0.547 (U)	1.94	61.5	0.609	0.184 (J)	1390 (J+)	18.8	1.94	6.94	0.338 (U)	10300	11.7 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7714	12-610674	1 to 2	ALLH	4710	1.06 (U)	2.04	52.4	0.64	0.532 (U)	1080	5.07	2.37	3.54	0.247 (U)	11700	6.56

PRS 12-001(a)-99 Sample association	RE12-10-7715	12-610675	0 to 0.6	ALLH	6720	0.631 (U)	2.5	121	0.722	0.364 (J)	4640	13	3.44	9.44	0.338 (U)	12400	20.2
PRS 12-001(a)-99 Sample association	RE12-10-7716	12-610675	1 to 2	ALLH	4040	0.999 (U)	1.64	44.8	0.49	0.275 (J)	1280 (J+)	9.15	3.37	3.64	0.252 (U)	22100	8.3 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7717	12-610676	0 to 0.3	SED	2980	1.22 (U)	0.886 (J)	31.1	0.233	0.132 (J)	588	2.82	1.47	2.51	0.306 (U)	7800	6.55
PRS 12-001(a)-99 Sample association	RE12-10-7718	12-610676	1 to 1.5	QBT3	2950	1.12 (U)	2.19	26	0.477	0.558 (U)	637 (J+)	32.1	0.915	3.11	0.271 (U)	8440	4.48 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7719	12-610677	0 to 0.7	ALLH	3590	1.19 (U)	1.59	36.9	0.435	0.594 (U)	1190	8.03	1.69	3.33	0.3 (U)	12800	8.12
PRS 12-001(a)-99 Sample association	RE12-10-7722	12-610678	0 to 0.2	SED	2230	1.13 (U)	0.774 (J)	19.6 (J+)	0.197	0.566 (U)	526 (J+)	2.33	0.888	2.12	0.26 (U)	8080	6.71 (J)
PRS 12-001(a)-99 Sample association	RE12-10-7856	12-610679	0 to 0.5	ALLH	2820	1.08 (U)	1.14	40.5	0.447	0.54 (U)	991	4.63	1.82	3.25	0.26 (U)	8330	6.43
PRS 12-001(a)-99 Sample association	RE12-10-7857	12-610679	1 to 1.8	ALLH	3100	1.03 (U)	1.17	37.6	0.484	0.514 (U)	968	5.05	1.43	2.98	0.262 (U)	9960	5.28
PRS 12-001(a)-99 Sample association	RE12-10-8096	12-610680	0 to 0.5	ALLH	2280	1.04 (U)	0.68 (J)	23.7	0.527	0.52 (U)	761	5.74	0.893	2.49	0.266 (U)	7990	4.75
PRS 12-001(a)-99 Sample association	RE12-10-8097	12-610680	1 to 2	ALLH	2680	1.04 (U)	0.835 (J)	27.7	0.7	0.519 (U)	805	8.2	0.95	3.01	0.252 (U)	8910	4.9
PRS 12-001(b) Sample association	RE12-10-7617	12-610639	0 to 0.5	ALLH	10800	1.07 (UJ)	2.25	197	0.94	0.224 (J)	2100	31.3	6.18	8.17	0.26 (U)	12200	16.4
PRS 12-001(b) Sample association	RE12-10-7618	12-610639	2 to 3	ALLH	15900	1.2 (UJ)	2.54	203	1.2	0.167 (J)	2490	14.8	6.67	7.26	0.28 (U)	16700	14.7
PRS 12-001(b) Sample association	RE12-10-7619	12-610640	0 to 1	ALLH	13000	1.16 (UJ)	2.45	257	1.23	0.291 (J)	2270	16.1	7.79	7.22	0.276 (U)	14600	17
PRS 12-001(b) Sample association	RE12-10-7620	12-610640	2 to 2.8	ALLH	18500	1.1 (UJ)	2.34	242	1.3	0.262 (J)	2570	12.1	6.66	7.59	0.276 (U)	15700	15.6
PRS 12-001(b) Sample association	RE12-10-7621	12-610641	0 to 1	ALLH	10100	1.06 (UJ)	1.43	503	0.728	0.2 (J)	1790	14.2	5.2	29	0.265 (U)	12100	20.2
PRS 12-001(b) Sample association	RE12-10-7622	12-610641	2 to 3.2	ALLH	16000	1.06 (UJ)	2.34	210	1.04	0.284 (J)	2120	11.9	6.09	6.98	0.275 (U)	14400	14.6
PRS 12-001(b) Sample association	RE12-10-7623	12-610642	0 to 0.5	ALLH	11400	1.15 (UJ)	2	346	0.908	0.241 (J)	2410	20	6.45	14.3	0.264 (U)	13300	16.3
PRS 12-001(b) Sample association	RE12-10-7624	12-610642	2 to 2.6	ALLH	13300	1.08 (UJ)	2.13	249	0.979	0.23 (J)	2810	13.5	6.72	7.27	0.24 (U)	13800	14.3
PRS 12-001(b) Sample association	RE12-10-7625	12-610643	0 to 0.6	ALLH	11000	1.19 (UJ)	2.09	197	1.07	0.281 (J)	2290	27.2	5.69	18.5	0.077 (J)	12300	15.6
PRS 12-001(b) Sample association	RE12-10-7626	12-610643	2 to 3	ALLH	16700	1.09 (UJ)	2.17	225	1.08	0.255 (J)	2460	12.3	6.51	7.12	0.0812 (J)	15400	14.7
PRS 12-001(b) Sample association	RE12-10-7627	12-610644	0 to 0.5	ALLH	9460	1.3 (UJ)	2.21	204	0.876	0.275 (J)	2450	21.4	5.8	10.7	0.136 (J)	12200	16
PRS 12-001(b) Sample association	RE12-10-7628	12-610644	2 to 2.5	ALLH	15000	1.07 (UJ)	2.29	228	1.1	0.255 (J)	2480	13.1	6.91	7.14	0.254 (U)	15300	14.9
PRS 12-001(b) Sample association	RE12-10-7629	12-610645	0 to 0.4	ALLH	9800	0.886 (U)	2.12	207	0.858	0.191 (J)	2140	74.3	5.47	9.11	0.278 (U)	12000	13
PRS 12-001(b) Sample association	RE12-10-7630	12-610645	2 to 2.7	ALLH	19400	1.1 (UJ)	2.47	218	1.22	0.152 (J)	2580	11.4	4.8	7.57	0.28 (U)	14900	14
PRS 12-001(b) Sample association	RE12-10-7631	12-610646	0 to 0.6	ALLH	10500	0.955 (U)	2.46	200	0.915	0.228 (J)	2260	56.8	6.57	7.53	0.295 (U)	13900	15.3
PRS 12-001(b) Sample association	RE12-10-7632	12-610646	2 to 3	ALLH	14100	1.08 (UJ)	2.25	219	1.01	0.209 (J)	2230	11.6	6.09	7.05	0.255 (U)	15200	13.4
PRS 12-001(b) Sample association	RE12-10-7633	12-610647	0 to 0.7	ALLH	9350	1.18 (UJ)	2.3	161 (J)	1.25	0.152 (J)	2540	12	4.65 (J-)	6.58	0.263 (J)	10900	12
PRS 12-001(b) Sample association	RE12-10-7634	12-610647	2 to 3	ALLH	18000	1.1 (UJ)	2.12	334 (J)	1.36	0.233 (J)	2550	12.8	15.2 (J-)	8.23	0.268 (U)	16800	18.1
PRS 12-001(b) Sample association	RE12-10-7635	12-610648	0 to 0.7	ALLH	11000	1.16 (UJ)	2.39	175 (J)	1.24	0.183 (J)	2120	13.9	6.71 (J-)	7.82	0.293 (U)	13800	14.9
PRS 12-001(b) Sample association	RE12-10-7636	12-610648	2 to 3	ALLH	14900	1.06 (UJ)	2.63	166 (J)	1.46	0.53 (U)	2140	10.1	5.62 (J-)	6.93	0.257 (U)	14100	13.1
PRS 12-001(b) Sample association	RE12-10-7638	12-610649	0 to 0.6	ALLH	9090	1.13 (UJ)	1.67	178 (J)	0.899	0.192 (J)	2210	10	5.77 (J-)	10.8	0.198 (J)	12600	14.4
PRS 12-001(b) Sample association	RE12-10-7637	12-610649	2 to 3	ALLH	16100	1.11 (UJ)	2.28	193 (J)	1.32	0.553 (U)	2180	10.9	5.9 (J-)	7.61	0.272 (U)	14900	12.9
PRS 12-001(b) Sample association	RE12-10-7639	12-610650	0 to 0.7	ALLH	15600	1.16 (UJ)	2.36	172 (J)	1.19	0.172 (J)	2200	13.7	5.88 (J-)	7.92	0.282 (U)	15000	15.2
PRS 12-001(b) Sample association	RE12-10-7640	12-610650	2 to 3	QBT3	11700	1.07 (UJ)	2.17	130 (J)	1.11	0.537 (U)	1690	13.2	5.3 (J-)	5.81	0.251 (U)	14600	9.91
PRS 12-001(b) Sample association	RE12-10-7641	12-610651	0 to 0.9	ALLH	12000	1.15 (UJ)	2.41	215 (J)	1.21	0.168 (J)	2310	19.6	6.51 (J-)	11.3	0.281 (U)	13900	15
PRS 12-001(b) Sample association	RE12-10-7642	12-610651	2 to 3	ALLH	19900	1.12 (UJ)	2.37	218 (J)	1.66	0.197 (J)	2400	12.5	5.35 (J-)	8.28	0.277 (U)	15900	15
PRS 12-001(b) Sample association	RE12-10-7643	12-610652	0 to 0.5	ALLH	10800	1.15 (UJ)	2.11	196 (J)	1.18	0.196 (J)	2350	17.6	6.48 (J-)	8.06	0.299 (U)	13200	15.4
PRS 12-001(b) Sample association	RE12-10-7644	12-610652	2 to 3	ALLH	18500	1.11 (UJ)	2.34	206 (J)	1.55	0.553 (U)	2190	10.8	5.37 (J-)	6.65	0.262 (U)	15000	14.2
PRS 12-001(b) Sample association	RE12-10-7645	12-610653	0 to 1	ALLH	11700	1.08 (UJ)	2.37	179 (J)	1.19	0.542 (U)	2150	17.8	6.61 (J-)	6.06	0.241 (U)	14000	14.3
PRS 12-001(b) Sample association	RE12-10-7646	12-610653	2 to 3.6	ALLH	17800	1.12 (UJ)	2.41	224 (J)	1.51	0.559 (U)	2490	11.9	5.09 (J-)	6.59	0.274 (U)	14400	12
PRS 12-001(b) Sample association	RE12-10-7647	12-610654	0 to 1	ALLH	13000	1.2 (UJ)	2.17	233 (J)	1.22	0.598 (U)	2390	15.4	5.06 (J-)	8.25	0.274 (U)	14400	13.1
PRS 12-001(b) Sample association	RE12-10-7648	12-610654	2 to 3	QBT3	6640	1.03 (UJ)	1.13	140 (J)	0.608	0.515 (U)	3240	7.26	1.87 (J-)	3.96	0.264 (U)	11700	4.66
PRS 12-001(b) Sample association	RE12-10-7649	12-610655	0 to 0.7	ALLH	11000	1.26 (UJ)	3	155 (J)	1.41	0.126 (J)	1880	11.1	6.11 (J-)	5.95	0.308 (U)	13900	14.1
PRS 12-001(b) Sample association	RE12-10-7650	12-610655	1.5 to 2.5	ALLH	23200	1.14 (UJ)	3.1	213 (J)	1.76	0.186 (J)	2670	13.1	5.69 (J-)	8.13	0.287 (U)	16800	17.3
PRS 12-002 Sample association	RE12-10-8094	12-610787	0.4 to 0.8	QBT3	6010	1.03 (U)	1.12	74.3	0.49	0.514 (U)	829	6.97	13.4	7.83	0.255 (U)	13700	8.71
PRS 12-002 Sample association	RE12-10-8095	12-610787	2 to 3.3	QBT3	14200	0.369 (U)	2.11	191	1.06	0.542 (U)	2440	13.5	14.2	11.1	0.268 (U)	18900	13
PRS 12-004(a) Sample association	RE12-10-7236	12-610527	0 to 0.5	QBT3	6690	1.26 (U)	1.86	80.8 (J-)	0.629	0.629 (U)	1440	14.4 (J)	6.3	6.76	0.319 (U)	12400	12.4

PRS 12-004(a) Sample association	RE12-10-7237	12-610527	1 to 2	QBT3	7700	1.09 (U)	1.63	73.9 (J-)	0.642	0.545 (U)	1880	13.8 (J)	6.96	5.53	0.273 (U)	12300	22.6
PRS 12-004(a) Sample association	RE12-10-7238	12-610528	0 to 0.5	ALLH	18300	1.16 (U)	2.44	211 (J-)	1.35	0.579 (U)	2630	26.4 (J)	6.21	8.83	0.186 (J)	16400	17
PRS 12-004(a) Sample association	RE12-10-7239	12-610528	1 to 2.6	QBT3	10600	1.08 (U)	2.68	214 (J-)	1.11	0.541 (U)	4580	9.3 (J)	4.03	5.81	0.276 (U)	10800	9.19
PRS 12-004(a) Sample association	RE12-10-7240	12-610529	0 to 0.6	ALLH	8120	1.15 (U)	2.7	166 (J-)	0.863	0.574 (U)	4260	9.32 (J)	8.12	7.4	0.249 (U)	13500	10.2
PRS 12-004(a) Sample association	RE12-10-7241	12-610529	1 to 2	QBT3	8620	1.09 (U)	3.14	169 (J-)	1.02	0.547 (U)	4600	8.17 (J)	5.89	6.22	0.276 (U)	11700	10
PRS 12-004(a) Sample association	RE12-10-7242	12-610530	0 to 1	ALLH	8460	1.19 (U)	2.06	115 (J-)	0.981	0.594 (U)	2080	10.4 (J)	4.22	7.16	0.299 (U)	11400	11.7
PRS 12-004(a) Sample association	RE12-10-7243	12-610530	1 to 2	QBT3	2970	1.05 (U)	1.31	70.2 (J-)	0.425	0.527 (U)	782	10.3 (J)	5.8	4.01	0.255 (U)	8120	7.81
PRS 12-004(a) Sample association	RE12-10-7252	12-610539	0 to 0.7	ALLH	6080	1.19 (U)	1.71	68.4 (J-)	0.609	0.595 (U)	1300	10.4 (J)	4.47	5.43	0.297 (U)	11400	18.3
PRS 12-004(a) Sample association	RE12-10-7253	12-610539	1 to 2	QBT3	1800	1.01 (U)	0.919 (J)	17.1 (J-)	0.2	0.506 (U)	410	16.4 (J)	1.84	1.76	0.258 (U)	7310	4.72
PRS 12-004(a) Sample association	RE12-10-7254	12-610540	0 to 0.6	ALLH	5040	1.14 (U)	2.2	73.3 (J-)	0.575	0.572 (U)	1410	17.5 (J)	3.96	5.81	0.295 (U)	10400	11.7
PRS 12-004(a) Sample association	RE12-10-7255	12-610540	1 to 1.9	QBT3	4250	0.373 (J)	1.83	56.6 (J-)	0.57	0.528 (U)	985	21.3 (J)	3.69	4.11	0.268 (U)	8460	8.18
PRS 12-004(a) Sample association	RE12-10-7256	12-610541	0 to 0.6	ALLH	7140	0.696 (U)	2.5	99.3	0.847	0.132 (J)	2690 (J+)	33.8	4.35	7.98	0.329 (U)	12200	14.6
PRS 12-004(a) Sample association	RE12-10-7257	12-610541	1 to 2	QBT3	4600	1.1 (U)	2.68	48.4	0.822	0.549 (U)	1030 (J+)	13.2	1.81	4.15	0.278 (U)	9360	7.06
PRS 12-004(a) Sample association	RE12-10-7258	12-610542	0 to 0.8	QBT3	4040	1.36	1.34	36	0.709	0.577 (U)	638	60.4	4.83	3.73	0.292 (U)	9590	6.4
PRS 12-004(a) Sample association	RE12-10-7259	12-610542	1 to 1.7	QBT3	3880	1.05 (U)	1.23	28.2	0.662	0.526 (U)	587	15.2	1.57	3.02	0.267 (U)	7760	5.06
PRS 12-004(a) Sample association	RE12-10-7260	12-610543	0 to 1	ALLH	9390	0.414 (J)	2.27	118	1.45	0.213 (J)	5100	15.1	3.39	8.69	0.119 (J)	11900	16.1
PRS 12-004(a) Sample association	RE12-10-7261	12-610543	1 to 1.8	QBT3	7320	0.926 (J)	1.84	67.7	1.17	0.552 (U)	2410	43.8	2.57	5.31	0.288 (U)	10000	8.01
PRS 12-004(a) Sample association	RE12-10-7262	12-610544	0 to 0.6	QBT3	6060	0.364 (J)	1.41	55.2	0.728	0.544 (U)	2210	22.7	2.67	2.61	0.274 (U)	10900	9.15
PRS 12-004(a) Sample association	RE12-10-7263	12-610544	1 to 1.7	QBT3	6020	0.47 (J)	1.8	44.9	1.01	0.513 (U)	1680	18.5	1.7	3.81	0.265 (U)	9780	7.66
PRS 12-004(a) Sample association	RE12-10-7264	12-610545	0 to 0.9	ALLH	2050	1.1 (U)	0.796 (J)	36.7	0.784	0.118 (J)	1660	1.98	0.946	2.72	0.26 (U)	7390	8.63
PRS 12-004(a) Sample association	RE12-10-7265	12-610545	1 to 3	QBT3	1970	1.04 (U)	0.451 (J)	10.4	0.692	0.521 (U)	264	2.32	0.399 (J)	2.28	0.266 (U)	7700	6.31
PRS 12-004(a) Sample association	RE12-10-7266	12-610546	0 to 0.5	SED	2420	1.07 (J)	1.19 (J)	41.7	0.965	0.134 (J)	2070	38.1	1.14	3.84	0.311 (U)	7130	7.88
PRS 12-004(a) Sample association	RE12-10-7267	12-610546	1 to 2	QBT3	2280	1.04 (U)	0.892 (J)	26.5	0.679	0.52 (U)	686	4.6	1.05	2.6	0.245 (U)	9160	5.3
PRS 12-004(a) Sample association	RE12-10-7268	12-610547	0 to 0.7	ALLH	3360	1.08 (U)	1.04 (J)	40.1	0.679	0.541 (U)	647	3.91	1.59	4.54	0.277 (U)	10000	10.8
PRS 12-004(a) Sample association	RE12-10-7269	12-610547	1 to 1.9	QBT3	1840	1.06 (U)	1.07	16.2	1.19	0.532 (U)	346	7.37	0.41 (J)	3.1	0.237 (U)	8080	5.91
PRS 12-004(a) Sample association	RE12-10-7270	12-610548	0 to 0.8	ALLH	3160	1.14 (U)	1.07 (J)	42.7	0.744	0.133 (J)	976	9.06	1.36	4.46	0.269 (U)	8200	9.13
PRS 12-004(a) Sample association	RE12-10-7271	12-610548	1 to 1.8	QBT3	4910	0.458 (J)	1.13	31.9	1.17	0.541 (U)	1290	12.6	1.1	5.07	0.27 (U)	9480	7.6
PRS 12-004(a) Sample association	RE12-10-7272	12-610549	0 to 0.3	SED	1600	0.636 (U)	0.738 (J)	18.9	0.317	0.562 (U)	400	13.7	0.76	2.3	0.251 (U)	7240	5.3
PRS 12-004(a) Sample association	RE12-10-7273	12-610549	1 to 1.3	QBT3	2470	1.16 (U)	1.36	28.3	0.424	0.563 (U)	620	40.6	1.28	3.33	0.267 (U)	9690	7.12
PRS 12-004(a) Sample association	RE12-10-7274	12-610550	0 to 0.3	SED	2010	1.15 (U)	0.833 (J)	28.4	0.31	0.573 (U)	985	3.51	0.786	3.82	0.269 (U)	5550	6.75
PRS 12-004(b) Sample association	RE12-10-7288	12-610553	0 to 0.75	ALLH	16400	1.05 (U)	2.3	221	1.05	0.299 (J)	3070 (J+)	18.7	9.62	12.1	0.255 (U)	21700	23.4 (J)
PRS 12-004(b) Sample association	RE12-10-7289	12-610553	2.2 to 3	QBT3	9270	0.373 (J)	1.88	121	0.895	0.533 (U)	2260 (J+)	8.88	7.69	6.23	0.262 (U)	12100	11.5 (J)
PRS 12-004(b) Sample association	RE12-10-7290	12-610553	5 to 6	QBT3	2670	1 (U)	0.92 (J)	37.7	0.424	0.516 (U)	1370 (J+)	21.3	7.12	3.27	0.239 (U)	7230	6.9 (J)
PRS 12-004(b) Sample association	RE12-10-7291	12-610554	0 to 1	ALLH	7410	1.05 (U)	1.96	118	0.901	0.543 (U)	2210 (J+)	14	5.12	5.9	0.262 (U)	11800	11.2 (J)
PRS 12-004(b) Sample association	RE12-10-7292	12-610554	2 to 3	QBT3	5780	1.02 (U)	1.76	406	0.67	0.529 (U)	3620 (J+)	10.5	6.07	4.12	0.256 (U)	9670	7.83 (J)
PRS 12-004(b) Sample association	RE12-10-7293	12-610554	5 to 6	QBT3	1580	0.939 (U)	0.772 (J)	22.9	0.361	0.497 (U)	787 (J+)	2.42	4.49	2.14	0.247 (U)	6500	3.38 (U)
PRS 12-004(b) Sample association	RE12-10-7867	12-610702	0 to 0	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
PRS 12-004(b) Sample association	RE12-10-7868	12-610702	0 to 0	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
PRS 12-004(b) Sample association	RE12-10-15442	12-611939	0 to 0.5	ALLH	8450 (J+)	0.29 (U)	2.9	125	0.71	0.094	1870	8	5.4	6.6	0.58 (U)	9880	23
PRS 12-004(b) Sample association	RE12-10-15443	12-611939	2 to 2.5	QBT3	15200 (J+)	0.27 (U)	3.5	190	1.2	0.046 (J)	2300	10	5.7	7.3	0.59 (U)	12600	16.2
PRS 12-004(b) Sample association	RE12-10-15444	12-611939	5 to 5.4	QBT3	14400 (J+)	0.49 (U)	3.8	79.4	1.6	0.041 (J)	5490	13.7	3.5	18	0.6 (U)	13500	11.9
PRS 12-004(b) Sample association	RE12-10-15445	12-611940	0 to 0.5	ALLH	7230 (J+)	0.21 (U)	2.7	113	0.63	0.062	1380	7.7	6	5	0.58 (U)	9210	13.1
PRS 12-004(b) Sample association	RE12-10-15446	12-611940	2 to 2.5	QBT3	6220 (J+)	0.25 (U)	3	140	0.6	0.029 (J)	2320	8.2	6.4	11.8	0.53 (U)	8670	10.4
PRS 12-004(b) Sample association	RE12-10-15447	12-611940	5 to 5.5	QBT3	3210 (J+)	0.094 (U)	1.2	23.4	0.39	0.052 (U)	696	8.7	1.1	12.8	0.52 (U)	4750	3
PRS 36-002 Sample association	RE36-10-8448	36-610876	7.5 to 10	QBT2	1730	1.02 (UJ)	0.665 (J)	20.4	0.512	0.508 (U)	347	2.23	0.657	2.18 (U)	0.238 (U)	7330	3.72
PRS 36-002 Sample association	RE36-10-8449	36-610876	15 to 16	QBT2	1410	0.857 (UJ)	0.533 (J)	28.2	0.493	0.428 (U)	256	2.24	0.612	2.4 (U)	0.245 (U)	6440	6.97
PRS 36-002 Sample association	RE36-10-8450	36-610877	9 to 10	QBT2	13800	1.07 (UJ)	2.07	82.2	2.69	0.533 (U)	4700	9.64	2.44	9.92	0.294 (U)	12700	13

PRS 36-002 Sample association	RE36-10-8451	36-610877	14 to 15	QBT2	2450	1.01 (UJ)	0.644 (J)	28.8	0.632	0.505 (U)	575	3.44	1.13	2.75 (U)	0.253 (U)	7320	6.4
PRS 36-002 Sample association	RE36-10-8452	36-610878	4 to 5	QBT2	6940	0.913 (UJ)	1.71	84.6	0.863	0.456 (U)	1570	6.86	4.2	5.98	0.232 (U)	11100	9.29
PRS 36-002 Sample association	RE36-10-8453	36-610878	9 to 10	QBT2	3570	0.997 (UJ)	0.85 (J)	63.7	0.678	0.498 (U)	775	8.38	0.916	3.93	0.225 (U)	10000	5.49
PRS 36-003(a) Sample association	RE36-10-8462	36-610879	49 to 50	QBT2	1510 (J+)	0.944 (UJ)	0.321 (J)	14.4	0.406	0.472 (U)	509	3.63	0.625	1.25	0.254 (U)	5670	2.88
PRS 36-003(a) Sample association	RE36-10-8463	36-610879	59 to 60	QBT2	3170 (J+)	1.01 (UJ)	0.323 (J)	28.2	0.591	0.507 (U)	525	6.6	0.81	1.55	0.229 (U)	6380	3.18
PRS 36-003(a) Sample association	RE36-10-8486	36-610879	69 to 70	QBT2	1200 (J+)	0.957 (UJ)	0.333 (J)	11.6	0.268	0.478 (U)	328	14.5	0.668	1.05	0.244 (U)	5950	3.01
PRS 36-003(a) Sample association	RE36-10-8487	36-610879	77.5 to 80	QBT2	1610 (J+)	1.01 (UJ)	0.448 (J)	12.8	0.437	0.505 (U)	349	1.55 (U)	0.644	1.11	0.249 (U)	5720	2.75
PRS 36-003(a) Sample association	RE36-10-8464	36-610880	3 to 4	QBT2	3680	1.05 (UJ)	1.16	43.7	0.561	0.526 (U)	1410 (J+)	8.37	6.75	5.36	0.276 (U)	9910	7.58 (J+)
PRS 36-003(a) Sample association	RE36-10-8466	36-610881	1.5 to 2.5	ALLH	2210	1.08 (U)	0.855 (J)	37.4 (J+)	0.46	0.541 (U)	320 (J+)	17.3	1.72	3.16	0.264 (U)	7510	4.74 (J+)
PRS 36-003(a) Sample association	RE36-10-8471	36-610882	5.6 to 6.1	QBT2	2590	1.08 (UJ)	0.75 (J)	25.7	0.463	0.541 (U)	554 (J+)	59.1	4.06	3.66	0.239 (U)	8980	4.07 (J+)
PRS 36-003(a) Sample association	RE36-10-8470	36-610882	5 to 5.6	QBT2	3640 (J+)	1.03 (U)	0.912 (J)	31.3	0.471	0.515 (U)	1030	12 (J)	3.32	3.35	0.267 (U)	8500	5.78
PRS 36-003(a) Sample association	RE36-10-8474	36-610884	0.5 to 1	ALLH	3290 (J+)	1.11 (U)	1.57	25.2	0.551	0.557 (U)	689	4.24 (J)	1.14	3.08	0.243 (U)	7470	4.55
PRS 36-003(a) Sample association	RE36-10-8475	36-610884	1 to 2.5	QBT2	2650	1.07 (UJ)	2.2	20.8	0.499	0.534 (U)	656 (J+)	13.4	1.34	4.4	0.269 (U)	8670	5.43 (J+)
PRS 36-003(a) Sample association	RE36-10-8476	36-610885	1.5 to 2.5	QBT3	2870 (J+)	1.01 (U)	0.973 (J)	24.1	0.465	0.505 (U)	688	4.2 (J)	0.968	3.17	0.246 (U)	7000	5.36
PRS 36-003(a) Sample association	RE36-10-8477	36-610885	2.5 to 3	QBT2	4360	1.1 (UJ)	1.04 (J)	31.2	0.567	0.548 (U)	959 (J+)	13.3	1.54	2.93	0.276 (U)	9340	6.35 (J+)
PRS 36-003(a) Sample association	RE36-10-8478	36-610886	1.5 to 2.3	ALLH	3280 (J+)	0.99 (U)	1.24	41.1	0.62	0.495 (U)	857	4.29 (J)	1.2	3	0.262 (U)	7910	4.73
PRS 36-003(a) Sample association	RE36-10-8479	36-610886	2.3 to 3.9	QBT2	5240	1.07 (UJ)	1.48	40	0.586	0.536 (U)	1380 (J+)	5.98	1.62	3.62	0.268 (U)	9250	6.69 (J+)
PRS 36-003(a) Sample association	RE36-10-8480	36-610887	1.5 to 2	ALLH	2590 (J+)	1.07 (U)	0.715 (J)	19.7	0.526	0.534 (U)	619	4.1 (J)	0.732	2.23	0.255 (U)	6490	7.52
PRS 36-003(a) Sample association	RE36-10-8481	36-610887	2 to 4	QBT2	5920	1.1 (UJ)	1.49	45.9	0.797	0.549 (U)	1710 (J+)	10.8	1.71	4.12	0.271 (U)	10200	7.49 (J+)
PRS 36-003(a) Sample association	RE36-10-8482	36-610888	2 to 3.5	ALLH	2160 (J+)	0.984 (U)	0.844 (J)	19.3	0.452	0.492 (U)	654	3.87 (J)	0.92	2.48	0.258 (U)	6910	4.58
PRS 36-003(a) Sample association	RE36-10-8483	36-610888	7 to 8	QBT3	2850 (J+)	1.02 (U)	0.811 (J)	33.3	0.43	0.509 (U)	862	7.18 (J)	1.63	2.98	0.256 (U)	8120	5.75
PRS 36-003(a) Sample association	RE36-10-8484	36-610889	2 to 3	ALLH	7260	1.18 (UJ)	1.37	44.6	0.689	0.591 (U)	1380 (J+)	27.1	2.21	4.43	0.271 (U)	10700	7.17 (J+)
PRS 36-003(a) Sample association	RE36-10-8485	36-610889	3 to 4.2	ALLH	19900	1.29 (UJ)	3.82	104	5.57	0.644 (U)	4260 (J+)	42.1	4.07	12.3	0.277 (U)	19000	13 (J+)
PRS 36-008 Sample association	RE36-10-7403	36-610574	0 to 0.5	ALLH	5160	5.62 (U)	1.08 (U)	59.6 (J+)	0.108 (U)	0.335 (U)	2870	6.94	1.7	23.6	0.0826 (J)	8630	15.8
PRS 36-008 Sample association	RE36-10-7404	36-610574	2 to 2.5	ALLH	5840	5.46 (U)	1.67	55.6 (J+)	1.01	0.245 (U)	2620	6.54	1.55	14.5	0.258 (U)	8530	11.7 (J)
PRS 36-008 Sample association	RE36-10-7405	36-610575	0 to 0.5	ALLH	7100	1.17 (U)	2.01	92.4 (J+)	0.834	0.345 (U)	3520	6.89	3.25	6.64	0.98	10400	15.6
PRS 36-008 Sample association	RE36-10-7406	36-610575	2 to 2.5	ALLH	6530	1.06 (U)	1.25	65.1 (J+)	0.831	0.241 (U)	2380	11.3	2.38	5.18	0.19 (J)	9260	8.55 (J)
PRS 36-008 Sample association	RE36-10-7407	36-610576	0 to 0.5	ALLH	4260	1.18 (U)	1.7	48.9 (J+)	0.644	0.209 (J)	2570	7.39	1.61	4.98	0.572	7620	7.45
PRS 36-008 Sample association	RE36-10-7413	36-610579	0 to 0.5	FILL	2800 (J)	1 (U)	1.11	44.1	0.153	0.436 (J)	1920 (J-)	57.8	3.7	88.2 (J+)	0.868	8320	41.6
PRS 36-008 Sample association	RE36-10-7414	36-610579	2 to 3	QBT3	3830 (J)	1.11 (U)	1.1 (J)	39.5	0.613	0.215 (J)	853 (J-)	9.78	1.45	18.5 (J+)	0.269 (U)	9200	11.9
PRS 36-008 Sample association	RE36-10-7415	36-610580	0 to 0.5	ALLH	6700	1.71 (U)	1.36 (J)	184	0.483	0.234 (J)	8490	13.1	3.31	10.3	0.633	8180	13.8
PRS 36-008 Sample association	RE36-10-7416	36-610580	2 to 3	ALLH	8220	1.12 (U)	1.1	89.7	0.608	0.562 (U)	2480	11.4	4.68	4.89	0.0927 (J)	12000	9.56
PRS 36-008 Sample association	RE36-10-7417	36-610581	0 to 0.5	ALLH	5620	0.816 (U)	1.9	66.7	0.555	0.578 (U)	1770	22.2	2.68	5.2	0.143 (J)	14000	12
PRS 36-008 Sample association	RE36-10-7418	36-610581	2 to 3	ALLH	6100	1.21 (U)	1.91	84.3	0.579	0.603 (U)	1830	13	3.03	5.43	0.301 (U)	10100	9.26
PRS 36-008 Sample association	RE36-10-7419	36-610582	0 to 0.5	ALLH	4480	1.19 (U)	1.34	66.2	0.534	0.596 (U)	3720	6.58	1.7	5.76	0.195 (J)	7680	10.9
PRS 36-008 Sample association	RE36-10-7420	36-610582	2 to 3	ALLH	4130	1.09 (U)	1.28	22	0.598	0.545 (U)	1700	6.63	1.47	3.12	0.0718 (J)	8540	6.12
PRS 36-008 Sample association	RE36-10-7421	36-610583	0 to 0.5	ALLH	5150	1.16 (U)	0.934 (J)	69.1 (J+)	0.378	0.578 (U)	2500	13.1	2.7	7.33	0.258 (U)	8690	13.6
PRS 36-008 Sample association	RE36-10-7422	36-610583	2 to 3	ALLH	5990	1.05 (U)	1.35	40.2 (J+)	0.443	0.524 (U)	1160	12	2.53	3.94	0.251 (U)	10200	6.39
PRS 36-008 Sample association	RE36-10-7423	36-610584	0 to 0.5	ALLH	4070 (J+)	0.675 (U)	1.56 (J)	113	0.359	0.302 (J)	5770	9.9	2.31	7.79	0.341 (J)	5730	18.2
PRS 36-008 Sample association	RE36-10-7424	36-610584	2 to 3	QBT3	11000 (J+)	1.06 (U)	3.2	153	0.921	0.16 (J)	6350	13.2	5.34	7.32	0.274 (U)	13200	10.2
PRS 36-008 Sample association	RE36-10-7425	36-610585	0 to 1	ALLH	6550	1.14 (U)	1.69	99 (J+)	0.734	0.316 (U)	3560	8.09	3.03	6.87	0.4	9660	14.9
PRS 36-008 Sample association	RE36-10-7426	36-610585	2 to 3	ALLH	4860	1.14 (U)	1.3	52.7 (J+)	0.494	0.188 (U)	1570	10.1	2.08	3.05	0.428	7660	8.24 (J)
PRS 36-008 Sample association	RE36-10-7427	36-610586	0 to 0.5	ALLH	3820 (J+)	1.42 (U)	1.9	62.2	0.471	0.189 (J)	3100	5.01	1.83	5.94	0.659	6000	10.1
PRS 36-008 Sample association	RE36-10-7428	36-610586	2 to 3	ALLH	4750 (J+)	1.02 (U)	1.19	64.2	0.598	0.102 (J)	1740	15.6	2.58	3.61	0.274 (U)	9360	6.32
PRS 36-008 Sample association	RE36-10-7429	36-610587	0 to 0.5	ALLH	6250	1.4 (U)	1.84	105 (J+)	0.827	0.384 (U)	4100	8.59	2.85	6.64	0.346	10300	15.5
PRS 36-008 Sample association	RE36-10-7431	36-610588	0 to 0.5	ALLH	4850	1.13 (U)	1.25 (J)	75.7 (J+)	0.396	0.902 (J)	3200	13.1	2.99	4870	0.325 (U)	9800	202
PRS 36-008 Sample association	RE36-10-7432	36-610588	2 to 2.5	ALLH	6010	1.13 (U)	1.72	64.1 (J+)	0.957	0.355 (U)	2810	11.9	1.91	31	0.29 (U)	8980	106

PRS 36-008 Sample association	RE36-10-7433	36-610589	0 to 0.5	ALLH	6760	1.34 (U)	2.38	121 (J+)	0.733	0.51 (U)	4440	7.89	3.64	12.2	0.577	9550	27.1
PRS 36-008 Sample association	RE36-10-7434	36-610589	1 to 2	ALLH	5540	1.29 (U)	1.82	71.1 (J+)	0.537	0.286 (U)	2480	8.08	2.13	5.05	0.534	8170	11.9 (J)
PRS 36-008 Sample association	RE36-10-7435	36-610590	0 to 0.5	SED	8310	1.43 (U)	1.77	77.7 (J+)	0.755	0.713 (U)	3710	9.24	2.76	6.82	0.344 (U)	10600	11.4
PRS 36-008 Sample association	RE36-10-7436	36-610590	2 to 3	ALLH	9450	1.24 (U)	2.58	33.9 (J+)	0.9	0.62 (U)	2060	17.7	2.03	5.41	0.274 (U)	11900	8.8
PRS 36-008 Sample association	RE36-10-7437	36-610591	0 to 0.5	SED	4380	1.11 (U)	1.22	46.9 (J+)	0.495	0.557 (U)	2500	4.07	1.61	4.06	0.875	7080	6.85
PRS 36-008 Sample association	RE36-10-7438	36-610591	2 to 3	QBT3	4360	0.989 (U)	1.23	15.5 (J+)	0.335	0.495 (U)	958	12.2	1.44	2.82	0.254 (U)	9160	4.41
PRS 36-008 Sample association	RE36-10-7439	36-610592	0 to 0.5	ALLH	6640	1.19 (U)	1.44	76.6 (J+)	0.519	0.593 (U)	2840	5.71	2.74	6.09	0.157 (J)	10200	14
PRS 36-008 Sample association	RE36-10-7440	36-610592	2 to 3	ALLH	5410	1.03 (U)	1.21	44.8 (J+)	0.488	0.514 (U)	1580	11.7	2.15	3.9	0.156 (J)	9260	6.63
PRS 36-008 Sample association	RE36-10-7441	36-610593	0 to 0.5	ALLH	4650	1.22 (U)	1.79	52 (J+)	0.644	0.612 (U)	2260	5.39	1.83	4.13	0.269 (J)	8000	9.47
PRS 36-008 Sample association	RE36-10-7442	36-610593	2 to 3	ALLH	4900	1.08 (U)	1.63	30.8 (J+)	0.542	0.539 (U)	1330	12.6	1.83	3.42	0.262 (U)	9420	6.53
PRS 36-008 Sample association	RE36-10-7443	36-610594	0 to 0.5	ALLH	8390	1.29 (U)	1.87	88.2 (J+)	0.474	0.643 (U)	2640	14.5	4.11	7.46	0.306	12300	13
PRS 36-008 Sample association	RE36-10-7444	36-610594	2 to 3	ALLH	9660	1.19 (U)	1.88	109 (J+)	0.449	0.596 (U)	2620	32.7	11.3	7.83	0.37	13900	14
PRS 36-008 Sample association	RE36-10-7445	36-610595	0 to 0.5	ALLH	5110	1.27 (U)	1.87	71.7 (J+)	0.447	0.149 (J)	3320	13.2	2.39	6.99	0.621	9680	11.5
PRS 36-008 Sample association	RE36-10-7447	36-610596	0 to 0.5	ALLH	4780	1.25 (U)	1.79	108 (J+)	0.553	0.626 (U)	5420	8.81	2.28	6.4	1.78	7830	7.79
PRS 36-008 Sample association	RE36-10-7448	36-610596	2 to 3	ALLH	6690	1.2 (U)	1.46	73.1 (J+)	0.514	0.602 (U)	3650	14.8	3.11	5.51	0.888	11300	8.03
PRS 36-008 Sample association	RE36-10-7449	36-610597	0 to 0.5	ALLH	6460	1.18 (U)	1.97	65.5 (J+)	0.44	0.591 (U)	3400	6.57	2.85	4.98	0.477	10300	7.78
PRS 36-008 Sample association	RE36-10-7450	36-610597	2 to 3	ALLH	9290	1.1 (U)	1.94	53.8 (J+)	0.397	0.549 (U)	1620	10.4	3.6	5.21	0.0821 (J)	13400	8.88
PRS 36-008 Sample association	RE36-10-7451	36-610598	0 to 0.5	ALLH	8550	1.57 (U)	1.86	169 (J+)	0.492	0.786 (U)	5230	21.5	4.57	8.51	2.88	11000	13.1
PRS 36-008 Sample association	RE36-10-7452	36-610598	2 to 3	ALLH	8310	1.22 (U)	1.57	144 (J+)	0.573	0.612 (U)	3750	23.2	4.37	7.45	4.24	11400	11.9
PRS 36-008 Sample association	RE36-10-7454	36-610599	0.5 to 1	QBT2	1680	1.06 (U)	0.514 (J)	19.6	0.351	0.528 (U)	298	11.7	0.896	1.79	0.252 (U)	6690	4.82
PRS 36-008 Sample association	RE36-10-7453	36-610599	0 to 0.5	ALLH	4140	1.76 (U)	1.54 (J)	81	0.493	0.882 (U)	3750	9.91	2.3	7.36	0.362 (J)	9170	14.6
PRS 36-008 Sample association	RE36-10-7455	36-610600	0 to 0.5	ALLH	7020	1.26 (U)	1.92	137	0.775	0.63 (U)	4540	6.79	3.1	8.1	0.596	9330	15.8
PRS 36-008 Sample association	RE36-10-7456	36-610600	1 to 2	QBT2	4430	1.07 (U)	1.37	54.2	0.494	0.535 (U)	1650	13.5	1.49	3.57	0.117 (J)	8650	7.06
PRS 36-008 Sample association	RE36-10-7457	36-610601	0 to 0.5	ALLH	4980	1.21 (U)	2.3	66.8	0.638	0.607 (U)	3030	4.97	1.71	5.37	1.1	5550	9.73
PRS 36-008 Sample association	RE36-10-7458	36-610601	2 to 3	ALLH	6710	1.14 (U)	1.5	85.4	0.556	0.572 (U)	3110	9.67	2.47	5.41	0.363	9360	8.86
PRS 36-008 Sample association	RE36-10-7459	36-610602	0 to 0.5	ALLH	5780	1.2 (U)	1.69	97.7	1.07	0.601 (U)	4270	6.35	2.69	6.39	1.31	8060	11.5
PRS 36-008 Sample association	RE36-10-7460	36-610602	1.5 to 2.6	QBT2	4760	1.05 (U)	1.5	40	2.44	0.523 (U)	1550	17.9	1.37	3.47	0.112 (J)	9440	5.68
PRS 36-008 Sample association	RE36-10-7461	36-610603	0 to 0.5	FILL	2210 (J)	1.06 (U)	0.937 (J)	35.8	0.226	0.239 (J)	1410 (J-)	6.36	1.85	13.9 (J+)	0.275 (U)	6290	13
PRS 36-008 Sample association	RE36-10-7462	36-610603	2 to 3	ALLH	4090 (J)	1.05 (U)	1.13	46	0.557	0.25 (J)	1490 (J-)	11	1.8	420 (J+)	0.266 (U)	8920	35.4
PRS 36-008 Sample association	RE36-10-7463	36-610604	0 to 0.5	ALLH	4810 (J)	0.919 (U)	1.48	71.1	0.737	0.2 (J)	1960 (J-)	5.37	1.78	9.86 (J+)	0.262 (U)	9680	20.8
PRS 36-008 Sample association	RE36-10-7464	36-610604	2 to 3	ALLH	8170 (J)	0.998 (U)	1.86	68.1	0.96	0.176 (J)	2190 (J-)	15.6	2.03	7.11 (J+)	0.259 (U)	11500	11
PRS 36-008 Sample association	RE36-10-7465	36-610605	0 to 0.5	FILL	2430 (J)	1.19 (U)	0.933 (J)	39.6	0.264	0.411 (J)	1870 (J-)	14.2	3.02	37.9 (J+)	0.322 (U)	7280	65
PRS 36-008 Sample association	RE36-10-7466	36-610605	2 to 3	FILL	2510 (J)	1.12 (U)	0.764 (J)	27.8	0.351	0.348 (J)	923 (J-)	9.35	1.76	76.5 (J+)	0.134 (J)	7100	45.3
PRS 36-008 Sample association	RE36-10-7467	36-610606	0 to 0.5	SED	5330 (J)	1.15 (U)	1.53	68.1	0.451	1.23	4780 (J-)	10	2.16	20.9 (J+)	0.427	8560	59.7
PRS 36-008 Sample association	RE36-10-7468	36-610606	2 to 2.9	SED	3870 (J)	1.31 (U)	1.33	54.5	0.63	0.895	2740 (J-)	9.45	1.73	15.1 (J+)	0.0982 (J)	6800	53.5
PRS 36-008 Sample association	RE36-10-7469	36-610607	0 to 0.5	SED	7450 (J)	1.09 (U)	1.71	75.9	0.863	0.376 (J)	3780 (J-)	7.56	2.59	33.5 (J+)	0.327	10300	75.7
PRS 36-008 Sample association	RE36-10-7470	36-610607	2 to 3	ALLH	7120 (J)	1.09 (U)	1.86	68	1.07	0.237 (J)	2680 (J-)	7.27	3.61	16.1 (J+)	0.077 (J)	11300	23.2
PRS 36-008 Sample association	RE36-10-7471	36-610608	0 to 0.8	FILL	1770 (J)	1.43 (U)	1.79	42.6	0.33	0.642 (J)	674 (J-)	99	3.05	33.3 (J+)	0.324 (U)	10500	26.7
PRS 36-008 Sample association	RE36-10-7472	36-610608	2 to 3	FILL	2550 (J)	1.25 (U)	0.753 (J)	32.7	0.532	0.386 (J)	515 (J-)	5.52	0.888	13.7 (J+)	0.314 (U)	7320	10.6
PRS 36-008 Sample association	RE36-10-7473	36-610609	0 to 0.5	SED	4460 (J)	1.27 (U)	1.77	118	0.647	0.361 (J)	6260 (J-)	15.6	1.92	12.8 (J+)	0.376	6550	19.1
PRS 36-008 Sample association	RE36-10-7475	36-610610	0 to 0.5	SED	3170 (J)	1.3 (U)	1.12 (J)	59.8	0.67	0.554 (J)	1190 (J-)	7.55	1.97	87.4 (J+)	0.12 (J)	7640	39.4
PRS 36-008 Sample association	RE36-10-7476	36-610610	2 to 3	ALLH	4640 (J)	1.19 (U)	1.13 (J)	44	0.901	0.159 (J)	1040 (J-)	6.46	1.03	7.56 (J+)	0.26 (U)	8800	6.47
PRS 36-008 Sample association	RE36-10-7477	36-610611	0 to 0.5	ALLH	3260	1.21 (U)	1.43	61.7	0.359	0.607 (U)	1640	7.71	1.75	4.82	0.327 (U)	6730	6.14
PRS 36-008 Sample association	RE36-10-7478	36-610611	2 to 3	ALLH	4620	1.1 (U)	1.21	52.8	0.485	0.549 (U)	1810	10.8	2.33	4.64	0.257 (U)	9500	8.47
PRS 36-008 Sample association	RE36-10-7479	36-610612	0 to 0.5	ALLH	5200	1.36 (U)	1.13 (J)	75.5	0.445	0.679 (U)	2710	22	2.85	5.36	0.312 (U)	9160	9.55
PRS 36-008 Sample association	RE36-10-7480	36-610612	2 to 3	ALLH	4740	1.1 (U)	0.995 (J)	52.2	0.483	0.552 (U)	1370	7.51	2.41	3.44	0.0984 (J)	9270	6.4
PRS 36-008 Sample association	RE36-10-7481	36-610613	0 to 0.5	ALLH	5340	0.581 (U)	1.86	79.2	0.556	0.15 (J)	2320	20	2.48	13.6	0.351 (U)	8670	20.3

PRS 36-008 Sample association	RE36-10-7482	36-610613	2 to 3	ALLH	5130	1.1 (U)	1.31	57.6	0.557	0.579 (U)	1640	47.3	2.28	7.87	0.312 (U)	9570	11.5
PRS 36-008 Sample association	RE36-10-7483	36-610614	0 to 0.5	ALLH	4450	1.31 (U)	1.52	54.9	0.545	0.654 (U)	3210	5.88	1.46	5.8	0.448	8400	9.92
PRS 36-008 Sample association	RE36-10-7484	36-610614	2 to 3	ALLH	4120	1.15 (U)	1.56	59.8	0.584	0.577 (U)	3360	4.84	1.8	5.25	0.105 (J)	6590	9.3
PRS 36-008 Sample association	RE36-10-7485	36-610615	0 to 0.5	ALLH	5220	1.34 (U)	1.22 (J)	50.6	0.383	0.669 (U)	1580	7.51	2.19	5.16	0.164 (J)	9570	11.1
PRS 36-008 Sample association	RE36-10-7486	36-610615	2 to 3	ALLH	6880	0.608 (U)	1.6	69.7	0.495	0.632 (U)	1710	20.6	2.89	6.34	0.273 (U)	10600	10.1
PRS 36-008 Sample association	RE36-10-7487	36-610616	0 to 0.5	ALLH	10500	1.32 (U)	2.44	127	0.595	0.659 (U)	3420	17	4.44	7.34	0.296 (U)	12600	12.7
PRS 36-008 Sample association	RE36-10-7488	36-610616	2 to 3	ALLH	11100	1.06 (U)	2.2	118	0.661	0.529 (U)	2560	13.9	5.54	7.82	0.244 (U)	13900	10.6
PRS 36-008 Sample association	RE36-10-7489	36-610617	0 to 0.5	ALLH	5800	1.42 (U)	2.02	59.7	0.538	0.709 (U)	2120	29.9	3.37	5.34	0.385 (U)	10600	10.5
PRS 36-008 Sample association	RE36-10-7490	36-610617	2 to 3	ALLH	5110	1.2 (U)	1.77	57.2	0.479	0.601 (U)	1830	21.4	3.47	4.52	0.286 (U)	10100	10.6
PRS 36-008 Sample association	RE36-10-7491	36-610618	0 to 0.5	ALLH	7410	1.53 (U)	2.62	91.9	0.819	0.764 (U)	3780	8.7	2.41	5.98	0.697	8100	9.57
PRS 36-008 Sample association	RE36-10-7492	36-610618	2 to 3	ALLH	12600	1.2 (U)	2.29	139	0.699	0.598 (U)	3690	12.9	3.28	5.99	0.305	11000	8.7
PRS 36-008 Sample association	RE36-10-7493	36-610619	0 to 0.5	ALLH	4370	1.3 (U)	1.72	70	0.834	0.648 (U)	2870	5.66	1.55	5.75	0.591	8960	10.1
PRS 36-008 Sample association	RE36-10-7494	36-610619	2 to 3	ALLH	4580	1.13 (U)	1.22	48.5	0.69	0.564 (U)	1520	10.5	1.7	4.08	0.179 (J)	9490	7.4
PRS 36-008 Sample association	RE36-10-7495	36-610620	0 to 0.5	ALLH	5310	1.26 (U)	1.53	80.7	0.561	0.16 (J)	3450	7.81	2.11	6.88	0.355	9350	11.7
PRS 36-008 Sample association	RE36-10-7496	36-610620	2 to 3	ALLH	5350	1.02 (U)	1.48	58.6	0.617	0.512 (U)	2070	8.9	2.34	4.9	0.143 (J)	9810	9.78
PRS 36-008 Sample association	RE36-10-7497	36-610621	0 to 0.5	ALLH	7150	1.46 (U)	1.63	111	0.647	0.73 (U)	2440	16.6	3.62	6.02	0.213 (J)	10400	9.33
PRS 36-008 Sample association	RE36-10-7498	36-610621	2 to 3	ALLH	7340	1.24 (U)	1.41	106	0.581	0.124 (J)	2520	16.8	4.55	5.68	0.192 (J)	11200	9.59
PRS 36-008 Sample association	RE36-10-7499	36-610622	0 to 0.5	ALLH	6900	1.18 (U)	1.53	93.6	0.593	0.588 (U)	2900	9.2	3.6	5.72	0.276 (J)	9800	10.3
PRS 36-008 Sample association	RE36-10-7500	36-610622	2 to 3	ALLH	7400	1.18 (U)	1.37	98.6	0.589	0.588 (U)	2710	15.7	4.31	5.83	0.103 (J)	11900	10.5
PRS 36-008 Sample association	RE36-10-7501	36-610623	0 to 0.5	ALLH	3620	1.21 (U)	1.46	41.2 (J+)	0.536	0.607 (U)	1820 (J+)	9.01	1.82	3.02	0.299 (U)	7810	5.97 (J+)
PRS 36-008 Sample association	RE36-10-8273	36-610821	0 to 0.5	SED	4620	1.3 (U)	1.84	101 (J+)	0.743	0.648 (U)	3730 (J+)	27.8	2.7	8.47	0.436	8650	13.9 (J+)
PRS 36-008 Sample association	RE36-10-8274	36-610821	2 to 3	ALLH	4360	0.955 (U)	1.43	66.6 (J+)	0.68	0.478 (U)	1860 (J+)	10.7	2.72	5.44	0.105 (J)	9200	9.26 (J+)
PRS 36-008 Sample association	RE36-10-8275	36-610822	0 to 0.5	SED	4050	1.49 (U)	1.59	75.4 (J+)	0.71	0.745 (U)	2820 (J+)	9.5	2.13	4.89	0.472	8650	9.85 (J+)
PRS 36-008 Sample association	RE36-10-8276	36-610822	2 to 3	SED	7270	1.14 (U)	1.36	82.1 (J+)	0.705	0.568 (U)	2700 (J+)	10.7	4.31	5.58	0.527	12000	9.4 (J+)
PRS 36-008 Sample association	RE36-10-8277	36-610823	0 to 0.5	SED	4970	1.22 (U)	1.28 (J)	63.1 (J+)	0.718	0.609 (U)	2430 (J+)	11.3	2.42	4.75	0.364	9830	9.31 (J+)
PRS 36-008 Sample association	RE36-10-8278	36-610823	2 to 3	SED	4510	1.05 (U)	1.16	59.7 (J+)	0.569	0.524 (U)	1290 (J+)	4.28	2.71	3.67	0.317	10200	7.22 (J+)
PRS 36-008 Sample association	RE36-10-8279	36-610824	0 to 0.5	ALLH	5830	1 (U)	3.57	85.6 (J+)	0.723	0.542	5420 (J+)	101	1.58	18.5	0.838	9900	19.4 (J+)
PRS 36-008 Sample association	RE36-10-8280	36-610824	2 to 3	ALLH	6040	1.07 (U)	4.12	84.9 (J+)	0.662	1.09	5290 (J+)	90.2	1.82	27.8	1.12	8370	21.8 (J+)
PRS 36-008 Sample association	RE36-10-8281	36-610825	0 to 1	ALLH	14100	1.35 (U)	2.59	109	0.673	1.36	11700	28.5	4.18	2720	1.65	13000	144
PRS 36-008 Sample association	RE36-10-8282	36-610825	2 to 2.5	QBT3	4860	1.06 (U)	1.14	28.4	0.466	1.39	2060	30.4	1.48	309	0.192 (J)	7600	35.7
PRS 36-008 Sample association	RE36-10-8283	36-610826	0 to 0.5	ALLH	5880	1.04 (U)	3.1	52	0.534	0.469 (J)	4910 (J+)	108	1.09	12.3	2.18	7120	13.6 (J+)
PRS 36-008 Sample association	RE36-10-8284	36-610826	2 to 3	ALLH	4910	1.02 (U)	2.99	38.5	0.523	0.182 (J)	2660 (J+)	70.9	0.977	8.41	0.825	7500	8.69 (J+)
PRS 36-008 Sample association	RE36-10-8285	36-610827	0 to 0.5	ALLH	5740	1.36 (U)	5.81	55.8	0.89	0.324 (J)	3370 (J+)	192	0.902	15.3	1.57	8160	14.9 (J+)
PRS 36-008 Sample association	RE36-10-8286	36-610827	2 to 3	ALLH	5550	0.986 (U)	2.88	49.6	0.478	3.35	2410 (J+)	97.9	1.28	25.2	1.39	7270	17.4 (J+)
PRS 36-008 Sample association	RE36-10-8287	36-610828	0 to 0.5	SED	7420	1.4 (U)	1.68	116 (J+)	0.68	0.7 (U)	4470 (J+)	21.1	3.69	9.22	0.498	12800	14.6 (J+)
PRS 36-008 Sample association	RE36-10-8288	36-610828	2 to 3	ALLH	4610	1.19 (U)	1.06 (J)	55.8 (J+)	0.596	0.595 (U)	2340 (J+)	7.82	2.36	4.12	0.173 (J)	9280	7.43 (J+)
PRS C-12-001 Sample association	RE12-10-7551	12-610624	0 to 0.5	ALLH	11500	1.08 (U)	2.06	126	1.12	0.561 (U)	2010 (J+)	11.2 (J)	4.74	5.78	0.27 (U)	12800	13 (J)
PRS C-12-001 Sample association	RE12-10-7552	12-610624	2 to 3	QBT3	7260	1.07 (U)	1.83	66.8	0.644	0.536 (U)	1360 (J+)	16.9	3.67	4.16	0.271 (U)	12800	5.47 (J)
PRS C-12-001 Sample association	RE12-10-7553	12-610625	0 to 0.5	ALLH	9590	1.25 (U)	2.61	135	1.35	0.627 (U)	2040 (J+)	11.9 (J)	5.41	6.03	0.277 (U)	14500	14.2 (J)
PRS C-12-001 Sample association	RE12-10-7554	12-610625	2 to 3	QBT3	8510	0.426 (J)	1.57	132	0.806	0.543 (U)	3670 (J+)	27	2.46	4.02	0.252 (U)	13600	5.73 (J)
PRS C-12-001 Sample association	RE12-10-7555	12-610626	0 to 0.5	ALLH	8280	1.13 (U)	1.88	107	0.95	0.564 (U)	1520	9.11	5.2	4.11	0.294 (U)	11200	11.2
PRS C-12-001 Sample association	RE12-10-7556	12-610626	2.1 to 3	QBT3	8220	1.08 (U)	1.89	92.4	0.781	0.538 (U)	1740	6.73	3.16	3.77	0.252 (U)	12100	5.36
PRS C-12-001 Sample association	RE12-10-7557	12-610627	0 to 0.5	ALLH	7200	1.1 (U)	2.09	81.5	0.804	0.548 (U)	1530	8.49	5.02	5.5	0.274 (U)	11600	11.8
PRS C-12-001 Sample association	RE12-10-7558	12-610627	2.4 to 3	QBT3	8840	1.04 (U)	2.3	161	0.882	0.52 (U)	4530	6.88	3.02	4.46	0.252 (U)	12700	5.45
PRS C-12-001 Sample association	RE12-10-7561	12-610628	0 to 1	ALLH	9240	1.12 (U)	2.3	107	1.04	0.558 (U)	1710	9.7	6.26	5.61	0.272 (U)	11500	14.2
PRS C-12-001 Sample association	RE12-10-7562	12-610628	2 to 3	QBT3	10800	1.09 (U)	2.26	144	1.21	0.545 (U)	2300	8.05	3.56	5.36	0.252 (U)	13800	6.06
PRS C-12-002 Sample association	RE12-10-7580	12-610629	0 to 0.5	ALLH	9060	1.11 (U)	2.75	127	0.857	0.158 (J)	2310	11.8	5.74	7.22	0.0975 (J)	13300	18.1

PRS C-12-002 Sample association	RE12-10-7581	12-610629	2 to 2.75	ALLH	12800	1.1 (U)	2.79	150	1.05	0.55 (U)	2380	16	5.56	7.75	0.262 (U)	15500	11.4
PRS C-12-002 Sample association	RE12-10-7582	12-610630	0 to 0.75	ALLH	6790	1.03 (U)	2.24	95.5	0.766	0.514 (U)	1530	9.35	5.2	5.04	0.0832 (J)	11400	11
PRS C-12-002 Sample association	RE12-10-7583	12-610630	2 to 3	ALLH	11400	1.04 (U)	2.61	177	0.987	0.522 (U)	2150	13.1	6.29	6.33	0.0734 (J)	13600	14.5
PRS C-12-002 Sample association	RE12-10-7584	12-610631	0 to 0.5	ALLH	7400	1.07 (U)	1.77	236	0.681	0.535 (U)	2240	10.1	4.66	8.7	0.232 (U)	12100	10.6
PRS C-12-002 Sample association	RE12-10-7585	12-610631	2 to 3	QBT3	11300	1.08 (U)	2.13	125	0.804	0.542 (U)	1830	11.6	5.28	5.97	0.262 (U)	13700	7.66
PRS C-12-002 Sample association	RE12-10-7586	12-610632	0 to 0.75	ALLH	7410	1.04 (U)	1.6	255	0.591	0.521 (U)	2560	9.8	5.06	7.11	0.242 (U)	12600	8.81
PRS C-12-002 Sample association	RE12-10-7587	12-610632	2 to 3	QBT3	10300	1.07 (U)	2.55	275	1.08	0.534 (U)	2710	8.79	6.64	7.21	0.243 (U)	13700	8.87
PRS C-12-002 Sample association	RE12-10-7590	12-610633	0 to 0.5	ALLH	9450	1.07 (U)	2.31	214	0.844	0.13 (J)	2380	12.2	12.1	7.26	0.265 (U)	13300	21.1
PRS C-12-002 Sample association	RE12-10-7591	12-610633	2 to 3	ALLH	12300	1.11 (U)	2.71	223	1.48	0.554 (U)	3360	23	5.95	7.9	0.277 (U)	15400	11.7
PRS C-12-003 Sample association	RE12-10-7596	12-610634	0 to 0.6	ALLH	13200	2.37 (U)	2.24	161 (J+)	0.984	0.546 (U)	2050	11.9	5.43	6.3	0.253 (U)	12700	14.6
PRS C-12-003 Sample association	RE12-10-7597	12-610634	2.5 to 3	ALLH	7600	2.74 (J)	1.64	125 (J+)	0.626	0.523 (U)	1340	10.4	6.66	3.86	0.235 (U)	11100	12.7
PRS C-12-003 Sample association	RE12-10-7598	12-610635	0 to 0.5	ALLH	4650	1.79 (U)	0.497 (J)	106 (J+)	0.261	0.543 (U)	1950	40.7	3.51	6.48	0.266 (U)	7930	6.47
PRS C-12-003 Sample association	RE12-10-7599	12-610635	2 to 2.9	QBT3	3900	1.02 (U)	0.393 (J)	53.7 (J+)	0.222	0.543 (U)	888	4.82	2.76	2.1	0.275 (U)	8640	4.6
PRS C-12-003 Sample association	RE12-10-7600	12-610636	0 to 0.5	ALLH	5470	2.61 (U)	0.82 (J)	94.3 (J+)	0.331	0.555 (U)	2860	104	5.84	11	0.17 (J)	12200	7.11
PRS C-12-003 Sample association	RE12-10-7601	12-610636	2 to 3.2	QBT3	5200	1.55 (U)	1.21	57 (J+)	0.477	0.558 (U)	1070	5.43	2.69	2.56	0.263 (U)	10000	4.04
PRS C-12-003 Sample association	RE12-10-7602	12-610637	0 to 0.5	ALLH	5390	1.9 (U)	1.03	85.8 (J+)	0.351	0.535 (U)	1390	11.8	3.32	6	0.236 (U)	10700	8.35
PRS C-12-003 Sample association	RE12-10-7603	12-610637	1.9 to 2.5	QBT3	3070	1.35 (U)	0.683 (J)	36.2 (J+)	0.236	0.495 (U)	904	35.2	1.92	1.91	0.26 (U)	9760	3.06
PRS C-12-003 Sample association	RE12-10-7606	12-610638	0 to 0.5	ALLH	9050	2.24 (U)	1.74	122 (J+)	0.698	0.555 (U)	1830	14.5	5.16	6.87	0.258 (U)	11800	12.1
PRS C-12-003 Sample association	RE12-10-7607	12-610638	2 to 2.7	QBT3	7170	1.45 (U)	1.3	111 (J+)	0.524	0.533 (U)	1370	37.2	3.44	3.39	0.256 (U)	12000	5.41
PRS C-12-004 Sample association	RE12-10-7351	12-610569	0 to 0.5	ALLH	5470	1.02 (UJ)	0.593 (J)	260 (J-)	0.303	0.832	2660	16.8	4.61	28.1	0.279 (U)	9480	8.61
PRS C-12-004 Sample association	RE12-10-7352	12-610569	2 to 3	ALLH	12500	1.1 (UJ)	2.07	166 (J-)	1.09	0.548 (U)	2200	11.8	4.92	7.69	0.257 (U)	15100	11.1
PRS C-12-004 Sample association	RE12-10-7353	12-610570	0 to 0.75	ALLH	18500	1.21 (UJ)	2.18	202 (J-)	1.18	0.606 (U)	2560	33.5	5.07	10.4	0.298 (U)	14400	13.9
PRS C-12-004 Sample association	RE12-10-7354	12-610570	1.75 to 2.7	QBT3	10800	1.07 (UJ)	1.77	166 (J-)	0.836	0.535 (U)	1990	10.1	5.38	6.8	0.15 (J)	12400	12.4
PRS C-12-004 Sample association	RE12-10-7355	12-610571	0 to 0.75	ALLH	12000	1.11 (UJ)	1.46	154 (J-)	0.865	0.556 (U)	2090	11.7	4.96	7.65	0.256 (U)	13100	12.4
PRS C-12-004 Sample association	RE12-10-7356	12-610571	2 to 2.5	QBT3	12800	0.985 (UJ)	2.06	171 (J-)	0.99	0.492 (U)	3810	13.1	4.56	5.77	0.253 (U)	14700	7.8
PRS C-12-004 Sample association	RE12-10-7357	12-610572	0 to 0.75	ALLH	10900	0.649 (U)	2.26	159 (J-)	0.873	0.525 (U)	2080	12.9	7.27	8.8	0.179 (J)	13500	58.6
PRS C-12-004 Sample association	RE12-10-7358	12-610572	2 to 2.5	ALLH	17900	1.12 (UJ)	2.4	169 (J-)	1.27	0.562 (U)	2060	12.7	5.4	8.44	0.0986 (J)	15500	29.7
PRS C-12-004 Sample association	RE12-10-7359	12-610573	0 to 0.5	ALLH	9690	1.01 (UJ)	1.16	279 (J-)	0.581	0.505 (U)	2540	9.16	4.73	8.27	0.127 (J)	12400	10.1
PRS C-12-004 Sample association	RE12-10-7360	12-610573	2 to 2.5	QBT3	17100	1.11 (UJ)	2.19	143 (J-)	1.2	0.555 (U)	2300	11.6	6.49	7.29	0.276 (U)	15100	10.7
PRS C-12-005 Sample association	RE12-10-7663	12-610656	0 to 0.5	ALLH	7360	3.89	1.13 (J)	121 (J+)	0.549 (J-)	0.636 (U)	2390	196	5.35 (J)	10.6	0.239 (J)	11100	48.2
PRS C-12-005 Sample association	RE12-10-7664	12-610656	2 to 2.9	ALLH	10300	1.09 (U)	2.13	144 (J+)	0.914 (J-)	0.546 (U)	1720	8.68	6.13 (J)	5.59	0.242 (U)	10700	9.54
PRS C-12-005 Sample association	RE12-10-7665	12-610657	0 to 0.5	ALLH	14000	1.08 (U)	2.49	221 (J+)	0.847 (J-)	0.122 (J)	2510	15.1	6.6 (J)	8.09	0.107 (J)	14000	15.8
PRS C-12-005 Sample association	RE12-10-7666	12-610657	2 to 3.6	ALLH	17900	1.08 (U)	2.44	220 (J+)	0.972 (J-)	0.116 (J)	2540	13.6	6.17 (J)	9.18	0.28 (U)	15700	15.2
PRS C-12-005 Sample association	RE12-10-7667	12-610658	0 to 0.5	ALLH	11300	1.2 (U)	1.95	195 (J+)	0.852 (J-)	0.502 (J)	2200	31	6.08 (J)	8.58	0.274 (U)	13100	18.8
PRS C-12-005 Sample association	RE12-10-7668	12-610658	2.5 to 2.9	ALLH	17900	1.09 (U)	2.53	227 (J+)	1.07 (J-)	0.547 (U)	2410	12	6.63 (J)	8.2	0.237 (U)	15200	14.9
PRS C-12-005 Sample association	RE12-10-7669	12-610659	0 to 0.4	ALLH	12800	1.32 (U)	2.14	207 (J+)	0.752 (J-)	0.661 (U)	2900	39	6.08 (J)	8.08	0.308 (U)	13500	14.8
PRS C-12-005 Sample association	RE12-10-7670	12-610659	2 to 3	ALLH	18000	1.1 (U)	3.07	223 (J+)	1.11 (J-)	0.552 (U)	2480	11.7	6.27 (J)	8.39	0.277 (U)	15400	15.8
PRS C-12-005 Sample association	RE12-10-7671	12-610660	0 to 0.6	ALLH	17500	1.23 (U)	2.67	227 (J+)	1.11 (J-)	0.613 (U)	2370	11.8	5.85 (J)	8.28	0.31 (U)	15800	15.6
PRS C-12-005 Sample association	RE12-10-7672	12-610660	2 to 2.5	ALLH	13300	1.13 (U)	2.14	194 (J+)	0.903 (J-)	0.564 (U)	2270	10.5	7.12 (J)	8.89	0.272 (U)	14300	12.7
PRS C-14-006 Sample association	RE14-10-7679	14-610661	0 to 0.5	ALLH	9380	1.27 (UJ)	2.5	164 (J-)	0.821	0.636 (U)	2350	10.3	5.64	6.17	0.0936 (J)	12000	14.6
PRS C-14-006 Sample association	RE14-10-7680	14-610661	2 to 3.1	ALLH	18500	0.922 (J-)	1.27	243 (J-)	0.557	0.543 (U)	2400	13.8	5.81	6.95	0.284 (U)	15400	16
PRS C-14-006 Sample association	RE14-10-7681	14-610662	0 to 0.5	ALLH	7520	1.09 (J-)	1.86	152 (J-)	0.643	0.645 (U)	1960	11.7	5.23	4.71	0.304 (U)	11100	11.3
PRS C-14-006 Sample association	RE14-10-7682	14-610662	2 to 4.5	ALLH	17300	0.873 (J-)	2.58	206 (J-)	1.33	0.558 (U)	2850	11.5	4.07	5.84	0.287 (U)	12700	12.3
PRS C-14-006 Sample association	RE14-10-7683	14-610663	0 to 0.3	ALLH	7570	1.1 (J-)	2.3	154 (J-)	0.851	0.653 (U)	3220	9.75	4.31	7.8	0.316 (U)	10100	13.4
PRS C-14-006 Sample association	RE14-10-7684	14-610663	2 to 3.3	ALLH	15500	0.399 (J-)	2.12	223 (J-)	0.969	0.568 (U)	3930	10.2	4.25	6.09	0.276 (U)	12600	13.3
PRS C-14-006 Sample association	RE14-10-7685	14-610664	0 to 0.5	ALLH	5260	1.17 (UJ)	1.54	92.4 (J-)	0.48	0.584 (U)	2340	20.7	3.29	7.68	0.131 (J)	8120	8.85
PRS C-14-006 Sample association	RE14-10-7686	14-610664	2 to 4	ALLH	17400	0.601 (J-)	2.53	254 (J-)	1.09	0.629 (U)	2480	12.6	5.5	7.97	0.3 (U)	14600	14.3

PRS C-14-006 Sample association	RE14-10-7687	14-610665	0 to 0.8	ALLH	8740	0.548 (J-)	2.19	147 (J-)	0.769	0.662 (U)	3190	9.33	5.23	5.74	0.156 (J)	11400	13.6
PRS C-14-006 Sample association	RE14-10-7688	14-610665	2.4 to 3.5	ALLH	14700	0.517 (J-)	2.62	236 (J-)	0.898	0.626 (U)	2510	9.84	4.55	6.23	0.317 (U)	12300	13.1
PRS C-36-003 Sample association	RE36-10-8273	36-610821	0 to 0.5	SED	4620	1.3 (U)	1.84	101 (J+)	0.743	0.648 (U)	3730 (J+)	27.8	2.7	8.47	0.436	8650	13.9 (J+)
PRS C-36-003 Sample association	RE36-10-8274	36-610821	2 to 3	ALLH	4360	0.955 (U)	1.43	66.6 (J+)	0.68	0.478 (U)	1860 (J+)	10.7	2.72	5.44	0.105 (J)	9200	9.26 (J+)
PRS C-36-003 Sample association	RE36-10-8275	36-610822	0 to 0.5	SED	4050	1.49 (U)	1.59	75.4 (J+)	0.71	0.745 (U)	2820 (J+)	9.5	2.13	4.89	0.472	8650	9.85 (J+)
PRS C-36-003 Sample association	RE36-10-8276	36-610822	2 to 3	SED	7270	1.14 (U)	1.36	82.1 (J+)	0.705	0.568 (U)	2700 (J+)	10.7	4.31	5.58	0.527	12000	9.4 (J+)
PRS C-36-003 Sample association	RE36-10-8277	36-610823	0 to 0.5	SED	4970	1.22 (U)	1.28 (J)	63.1 (J+)	0.718	0.609 (U)	2430 (J+)	11.3	2.42	4.75	0.364	9830	9.31 (J+)
PRS C-36-003 Sample association	RE36-10-8278	36-610823	2 to 3	SED	4510	1.05 (U)	1.16	59.7 (J+)	0.569	0.524 (U)	1290 (J+)	4.28	2.71	3.67	0.317	10200	7.22 (J+)
PRS C-36-003 Sample association	RE36-10-8279	36-610824	0 to 0.5	ALLH	5830	1 (U)	3.57	85.6 (J+)	0.723	0.542	5420 (J+)	101	1.58	18.5	0.838	9900	19.4 (J+)
PRS C-36-003 Sample association	RE36-10-8280	36-610824	2 to 3	ALLH	6040	1.07 (U)	4.12	84.9 (J+)	0.662	1.09	5290 (J+)	90.2	1.82	27.8	1.12	8370	21.8 (J+)
PRS C-36-003 Sample association	RE36-10-8281	36-610825	0 to 1	ALLH	14100	1.35 (U)	2.59	109	0.673	1.36	11700	28.5	4.18	2720	1.65	13000	144
PRS C-36-003 Sample association	RE36-10-8282	36-610825	2 to 2.5	QBT3	4860	1.06 (U)	1.14	28.4	0.466	1.39	2060	30.4	1.48	309	0.192 (J)	7600	35.7
PRS C-36-003 Sample association	RE36-10-8283	36-610826	0 to 0.5	ALLH	5880	1.04 (U)	3.1	52	0.534	0.469 (J)	4910 (J+)	108	1.09	12.3	2.18	7120	13.6 (J+)
PRS C-36-003 Sample association	RE36-10-8284	36-610826	2 to 3	ALLH	4910	1.02 (U)	2.99	38.5	0.523	0.182 (J)	2660 (J+)	70.9	0.977	8.41	0.825	7500	8.69 (J+)
PRS C-36-003 Sample association	RE36-10-8285	36-610827	0 to 0.5	ALLH	5740	1.36 (U)	5.81	55.8	0.89	0.324 (J)	3370 (J+)	192	0.902	15.3	1.57	8160	14.9 (J+)
PRS C-36-003 Sample association	RE36-10-8286	36-610827	2 to 3	ALLH	5550	0.986 (U)	2.88	49.6	0.478	3.35	2410 (J+)	97.9	1.28	25.2	1.39	7270	17.4 (J+)
PRS C-36-003 Sample association	RE36-10-8287	36-610828	0 to 0.5	SED	7420	1.4 (U)	1.68	116 (J+)	0.68	0.7 (U)	4470 (J+)	21.1	3.69	9.22	0.498	12800	14.6 (J+)
PRS C-36-003 Sample association	RE36-10-8288	36-610828	2 to 3	ALLH	4610	1.19 (U)	1.06 (J)	55.8 (J+)	0.596	0.595 (U)	2340 (J+)	7.82	2.36	4.12	0.173 (J)	9280	7.43 (J+)
PRS 15-004(d) Sample association	AAB3451	15-02100	1.5 to 2	ALLH	20400	3.9 (U)	3.2	261	1.3	1 (U)	2650	11.4	8.1 (U)	10.6	—	15300	13.6
PRS 15-004(d) Sample association	AAB3461	15-02112	0 to 0.5	ALLH	16900	3.8 (U)	3.4	229	1.1	0.96 (U)	2920	10.4	6.4 (U)	49.4	—	13600	48.5
PRS 15-004(d) Sample association	RE15-10-8112	15-610788	0 to 0.5	ALLH	9620	0.678 (J-)	2.28	175	1.26	0.746 (U)	2370	9.6	5.07 (J)	8.46	0.316 (U)	11900	13.6
PRS 15-004(d) Sample association	RE15-10-8113	15-610788	2 to 3	ALLH	17200	0.56 (J-)	1.84	237	1.23	0.55 (U)	3910	12.8	5.09 (J)	6.63	0.26 (U)	14900	13
PRS 15-004(d) Sample association	RE15-10-8114	15-610789	0 to 0.5	ALLH	8940	1.77 (UJ)	3.36	229	1.26	0.883 (U)	5520	10.9	5.57 (J)	29.9	0.407 (U)	11800	35.8
PRS 15-004(d) Sample association	RE15-10-8115	15-610789	2 to 3	ALLH	13700	1.51 (J-)	2.05	236	1.25	0.584 (U)	5250	21.3	5.83 (J)	8.04	0.253 (U)	14700	14.6
PRS 15-004(d) Sample association	RE15-10-8116	15-610790	0 to 0.5	ALLH	8570	0.674 (J-)	1.66	142	1.04	0.653 (U)	1660	9.65	4.16 (J)	7.66	0.33 (U)	11600	12.9
PRS 15-004(d) Sample association	RE15-10-8117	15-610790	2 to 3	ALLH	12500	0.437 (J-)	2.16	208	1.23	0.531 (U)	2490	12.9	6.31 (J)	9.5	0.249 (U)	14800	18
PRS 15-004(d) Sample association	RE15-10-8118	15-610791	0 to 0.5	ALLH	11200	0.556 (J-)	1.62	189	0.927	0.674 (U)	2380	17.6	6.85 (J)	14.2	0.332 (U)	14700	16.8
PRS 15-004(d) Sample association	RE15-10-8119	15-610791	2 to 3	ALLH	16900	1.02 (J-)	2.48	405	1.53	0.561 (U)	12100	16.2	4.62 (J)	7.38	0.271 (U)	15100	13.8
PRS 15-005(c) Sample association	RE15-10-7300	15-610555	0 to 0.5	SED	10800 (J+)	1.38 (U)	2.15	196	1.02	0.69 (U)	2160	12.1 (J)	5.87	30.6	0.243 (J)	14800	15.8
PRS 15-005(c) Sample association	RE15-10-7301	15-610555	1 to 2	SED	12600 (J+)	1.17 (U)	1.84	184	0.976	0.584 (U)	1960	10.9 (J)	5.34	11.8	0.105 (J)	12800	12.3 (J)
PRS 15-005(c) Sample association	RE15-10-7302	15-610556	0 to 0.7	SED	11600 (J+)	1.29 (U)	1.99	196	1.06	0.645 (U)	2090	9.8 (J)	5.37	14.5	0.186 (J)	13100	15.2
PRS 15-005(c) Sample association	RE15-10-7303	15-610556	1 to 3	SED	14400 (J+)	1.17 (U)	2.08	214	1.07	0.585 (U)	2350	10.7 (J)	5.88	7.64	0.317 (U)	14200	12.9 (J)
PRS 15-005(c) Sample association	RE15-10-7304	15-610557	0 to 0.5	SED	11100 (J+)	1.25 (U)	2.2	176	1.12	0.624 (U)	2160	10.3 (J)	5.12	8.77	0.186 (J)	13700	14.1
PRS 15-005(c) Sample association	RE15-10-7305	15-610557	1 to 2	SED	13800 (J+)	1.41 (U)	1.59	183	0.987	0.703 (U)	2220	9.68 (J)	3.92	4.9	0.352 (U)	11300	9.03 (J)
PRS 15-005(c) Sample association	RE15-10-7306	15-610558	0 to 0.5	ALLH	11400 (J+)	1.17 (U)	2.21	184	1.01	0.585 (U)	2680	13.3 (J)	5.26	9.37	0.303 (U)	12300	13.3
PRS 15-005(c) Sample association	RE15-10-7307	15-610558	2 to 3	ALLH	12600 (J+)	1.1 (U)	2.34	196	1.09	0.548 (U)	2610	10.4 (J)	5.67	6.56	0.141 (J)	13000	12.8 (J)
PRS 15-005(c) Sample association	RE15-10-7308	15-610559	0 to 0.5	ALLH	9550 (J+)	0.542 (J)	1.92	161 (J)	0.901	0.644 (U)	2110 (J-)	10.3 (J)	6.57	11.9	0.277 (U)	14000	63.8
PRS 15-005(c) Sample association	RE15-10-7309	15-610559	2 to 3.3	ALLH	13600 (J+)	0.664 (J)	1.92	205 (J)	1.15	0.536 (U)	2810 (J-)	10.7 (J)	5.82	8.3	0.243 (U)	14200	13.8
PRS 15-005(c) Sample association	RE15-10-7310	15-610560	0 to 0.5	ALLH	9740 (J+)	1.3 (U)	2.21	181	0.984	0.651 (U)	2340	9.32 (J)	5.01	9.52	0.403	11200	16.4
PRS 15-005(c) Sample association	RE15-10-7311	15-610560	2 to 4	ALLH	12900 (J+)	1.25 (U)	1.88	186	0.991	0.623 (U)	3950	8.81 (J)	3.7	5.12	0.135 (J)	10800	9.52 (J)
PRS 15-005(c) Sample association	RE15-10-7312	15-610561	0 to 0.5	ALLH	10500 (J+)	0.611 (J)	2.15	214 (J)	0.981	0.688 (U)	2520 (J-)	13.9 (J)	9.87	9.58	0.34 (U)	14200	19.1
PRS 15-005(c) Sample association	RE15-10-7313	15-610561	2 to 3	ALLH	15200 (J+)	0.66 (J)	2.32	193 (J)	1.24	0.552 (U)	2650 (J-)	13 (J)	7.06	7.85	0.235 (U)	16000	15.5
PRS 15-005(c) Sample association	RE15-10-7314	15-610562	0 to 0.5	ALLH	10700 (J+)	0.503 (J)	2.33	205 (J)	1.09	0.711 (U)	2450 (J-)	10.5 (J)	5.77	11.1	0.209 (U)	13300	15.8
PRS 15-005(c) Sample association	RE15-10-7315	15-610562	2 to 3	ALLH	13300 (J+)	1.22	2.16	205 (J)	1.15	0.539 (U)	2460 (J-)	11.7 (J)	6.31	8.01	0.245 (U)	15000	14.9
PRS 15-005(c) Sample association	RE15-10-7316	15-610563	0 to 0.7	ALLH	11200 (J+)	0.869 (J)	2.31	185 (J)	1.16	0.767 (U)	2320 (J-)	10.8 (J)	6.24	8.11	0.23 (U)	12900	13.5
PRS 15-005(c) Sample association	RE15-10-7317	15-610563	2 to 3	ALLH	14500 (J+)	1.08 (U)	2.07	216 (J)	1.32	0.54 (U)	3530 (J-)	10.3 (J)	5.25	7.52	0.269 (U)	14100	13.9

PRS 15-005(c) Sample association	RE15-10-7318	15-610564	0 to 0.7	ALLH	5960 (J+)	0.895 (J)	1.34	102 (J)	0.59	0.56 (U)	2590 (J-)	5.94 (J)	2.93	10.8	0.277 (U)	7940	69.6
PRS 15-005(c) Sample association	RE15-10-7319	15-610564	2 to 3	ALLH	13300 (J+)	0.905 (J)	2.17	205 (J)	1.48	0.557 (U)	2860 (J-)	9.85 (J)	4.72	6.72	0.242 (U)	13000	14.4
PRS 15-007(c) Sample association	RE15-10-8126	15-610792	0 to 0.5	ALLH	15400	1.24 (U)	3.53 (J)	192	1.29	0.595 (U)	2510	17.9	7.73 (J)	8.76 (J)	0.283 (U)	17600	16.4
PRS 15-007(c) Sample association	RE15-10-8127	15-610792	1 to 2	ALLH	22900	0.823 (U)	3.18 (J)	253	1.58	0.543 (U)	3600	23.4	6.28 (J)	10.2 (J)	0.275 (U)	18600	16.8
PRS 15-007(c) Sample association	RE15-10-8128	15-610793	0 to 0.5	ALLH	3990	0.823 (U)	1.65 (J)	75.9	0.408	0.579 (U)	3090	9.14	2.99 (J)	6.46 (J)	0.267 (U)	9140	8.09
PRS 15-007(c) Sample association	RE15-10-8129	15-610793	1 to 2	ALLH	14100	0.898 (U)	3.21 (J)	195	1.16	0.573 (U)	2920	13.9	7.42 (J)	8.03 (J)	0.262 (U)	16500	15.3
PRS 15-007(c) Sample association	RE15-10-8130	15-610794	0 to 0.5	ALLH	12800	0.987 (U)	2.78 (J)	170	1.12	0.578 (U)	2410	13.7	5.74 (J)	9.54 (J)	0.279 (U)	15300	44.7
PRS 15-007(c) Sample association	RE15-10-8131	15-610794	1 to 2	QBT3	10800	0.846 (U)	3.2 (J)	158	0.939	0.591 (U)	3510	13.1	5.39 (J)	6.48 (J)	0.261 (U)	13100	12.6
PRS 15-007(c) Sample association	RE15-10-8134	15-610796	0 to 0.5	ALLH	11100	0.976 (U)	2.79 (J)	158	0.968	0.531 (U)	2140	17.4	5.98 (J)	8.11 (J)	0.286 (U)	14600	15.8
PRS 15-007(c) Sample association	RE15-10-8135	15-610796	1 to 2	ALLH	10900	1.12 (UJ)	1.83 (J)	214	1.33	0.559 (U)	2680	18	4.95 (J)	6.82 (J)	0.281 (U)	8060	14.5
PRS 15-007(c) Sample association	RE15-10-8136	15-610797	0 to 0.5	ALLH	10500	1.02 (U)	2.54 (J)	152	0.743	0.527 (U)	2510	19.2	6.12 (J)	8.89 (J)	0.282 (U)	14900	14.7
PRS 15-007(c) Sample association	RE15-10-8137	15-610797	1 to 1.5	ALLH	14700	1.85 (U)	2.74 (J)	181	1.18	0.55 (U)	2790	151	7.05 (J)	10.2 (J)	0.298 (U)	16900	14.7
PRS 15-007(c) Sample association	RE15-10-8138	15-610798	0 to 0.5	ALLH	4030	0.783 (U)	1.29 (J)	54.8	0.24	0.529 (U)	5210	11	2.78 (J)	6.29 (J)	0.278 (U)	11100	6.88
PRS 15-007(c) Sample association	RE15-10-8139	15-610798	1 to 2	QBT3	13400	1.18 (U)	2.55 (J)	150	0.82	0.539 (U)	1980	14.4	4.62 (J)	6.81 (J)	0.27 (U)	14500	12.1
PRS 15-007(c) Sample association	RE15-10-8140	15-610799	0 to 0.5	ALLH	2390	0.646 (U)	1.2 (U)	46.9	0.198	0.557 (U)	4970	22.5	2.05 (J)	4.09 (J)	0.272 (U)	7260	5.89
PRS 15-007(c) Sample association	RE15-10-8141	15-610799	1 to 2	ALLH	10100	0.738 (U)	2.31 (J)	153	0.805	0.538 (U)	2450	18.4	6.2 (J)	6.44 (J)	0.286 (U)	15000	12.5
PRS 15-007(c) Sample association	RE15-10-8142	15-610800	0 to 0.5	ALLH	13100	0.903 (U)	0.563 (U)	188	0.995	0.623 (U)	2260	13.6	6.48 (J)	7.87 (J)	0.316 (U)	15800	16.9
PRS 15-007(c) Sample association	RE15-10-8143	15-610800	1 to 2	ALLH	20400	1.09 (U)	2.51 (J)	232	1.32	0.552 (U)	2740	14.7	6.81 (J)	8.44 (J)	0.28 (U)	18400	16
PRS 15-007(c) Sample association	RE15-10-8144	15-610801	0 to 0.5	ALLH	8100	1.45 (UJ)	2.96 (J)	176	1.08	0.727 (U)	2890	13.1	5.39 (J)	7.24 (J)	0.136 (U)	6750	19.5
PRS 15-007(c) Sample association	RE15-10-8145	15-610801	1 to 2	QBT3	7630	0.919 (U)	2.46 (J)	125	0.796	0.526 (U)	1430	10.1	5.83 (J)	6.57 (J)	0.266 (U)	13300	9.94
PRS 15-007(c) Sample association	RE15-10-8147	15-610802	0 to 0.5	ALLH	9370	1.17 (U)	0.339 (U)	163	0.938	0.779 (U)	2930	23.2	5.62 (J)	8.55 (J)	0.338 (U)	12900	150
PRS 15-007(c) Sample association	RE15-10-8146	15-610802	1 to 2	ALLH	11700	1.29 (U)	1.12 (U)	158	0.879	0.568 (U)	2300	12	5.36 (J)	9.73 (J)	0.302 (U)	15100	200
PRS 15-007(c) Sample association	RE15-10-8148	15-610803	0 to 0.5	ALLH	11500	1.51 (U)	1.95	135 (J+)	0.912	0.309 (J)	1660	21.7	4.89 (J)	7.17 (J)	0.389 (U)	12300	16.4 (J+)
PRS 15-007(c) Sample association	RE15-10-8149	15-610803	1 to 2.1	ALLH	17600	1.08 (U)	2.73	190 (J+)	1.3	0.264 (J)	3110	42.5	6.76 (J)	8.85 (J)	0.267 (U)	16500	15 (J)
PRS 15-007(c) Sample association	RE15-10-8151	15-610804	0 to 0.5	ALLH	3980	1.32 (U)	1.34 (J)	52.3 (J+)	0.831	0.183 (J)	822	41.4	4.31 (J)	6.6 (J)	0.112 (J)	8160	12.4 (J)
PRS 15-007(c) Sample association	RE15-10-8150	15-610804	1 to 2	ALLH	19800	1.11 (U)	2.85	183 (J+)	1.24	0.214 (J)	2290	22.7	6.55 (J)	8.5 (J)	0.24 (U)	16700	14.2 (J)
PRS 15-007(c) Sample association	RE15-10-8153	15-610805	0 to 0.5	ALLH	20000	1.27 (U)	2.96	176 (J+)	1.27	0.18 (J)	2320	23.2	6.34 (J)	8.76 (J)	0.318 (U)	18000	16.1 (J+)
PRS 15-007(c) Sample association	RE15-10-8152	15-610805	1 to 2	ALLH	21200	1.24 (U)	3.15	186 (J+)	1.18	0.257 (J)	2680	13.5	5.52 (J)	9.81 (J)	0.292 (U)	16900	16 (J+)
PRS 15-007(c) Sample association	RE15-10-8154	15-610806	0 to 0.5	ALLH	12000	1.29 (U)	2.13	181 (J+)	0.679	0.635 (J)	2300	12.1	7.86 (J)	10.8 (J)	0.324 (U)	14700	35.7 (J+)
PRS 15-007(c) Sample association	RE15-10-8155	15-610806	1 to 2	ALLH	18900	1.15 (U)	2.9	183 (J+)	1.34	0.203 (J)	2360	12.7	5.44 (J)	7.99 (J)	0.27 (U)	15800	14.4 (J)
PRS 15-007(c) Sample association	RE15-10-8156	15-610807	0 to 0.5	ALLH	7560	1.24 (U)	1.99	117 (J+)	0.599	0.178 (J)	1700	12.9	3.66 (J)	7.65 (J)	0.323 (U)	10300	18.2 (J+)
PRS 15-007(c) Sample association	RE15-10-8157	15-610807	1 to 2	QBT3	20800	1.1 (U)	2.73	223 (J+)	1.17	0.256 (J)	2790	14	7.48 (J)	10.2 (J)	0.283 (U)	17300	15.7 (J+)
PRS 15-007(c) Sample association	RE15-10-8158	15-610808	0 to 0.5	ALLH	21100	1.16 (U)	3.08	226 (J+)	1.33	0.278 (J)	2780	15.6	7.27 (J)	10 (J)	0.296 (U)	17900	16.5 (J+)
PRS 15-007(c) Sample association	RE15-10-8159	15-610808	1 to 2	QBT3	16600	1.08 (U)	3.01	174 (J+)	1.02	0.162 (J)	2710	13.6	5.64 (J)	8.26 (J)	0.282 (U)	15900	13.3 (J)
PRS 15-007(c) Sample association	RE15-10-8160	15-610809	0 to 0.5	ALLH	19200	1.16 (U)	1.08 (J)	189 (J+)	0.355	0.212 (J)	2440	14.5	6.09 (J)	7.56 (J)	0.294 (U)	16000	14.6 (J)
PRS 15-007(c) Sample association	RE15-10-8161	15-610809	1 to 1.5	QBT3	3830	1.08 (U)	1.42	106 (J+)	0.312	0.538 (U)	3390	11.1	4.61 (J)	7.78 (J)	0.283 (U)	10100	8.44 (J)
PRS 15-007(c) Sample association	RE15-10-8162	15-610810	0 to 0.5	ALLH	6630	1.3 (U)	2.01	83 (J+)	0.575	0.196 (J)	1930	11.5	3.31 (J)	6.3 (J)	0.325 (U)	10800	28.3 (J+)
PRS 15-007(c) Sample association	RE15-10-8163	15-610810	1 to 2	ALLH	15800	1.14 (U)	3.18	170 (J+)	1.09	0.186 (J)	2440	13.6	6.21 (J)	7.71 (J)	0.294 (U)	16600	17.4 (J+)
PRS 15-007(c) Sample association	RE15-10-8164	15-610811	0 to 0.5	ALLH	9170	1.21 (U)	2.37	118 (J+)	0.814	0.21 (J)	2690	10.5	4.37 (J)	9.14 (J)	0.303 (U)	11900	12.3 (J)
PRS 15-007(c) Sample association	RE15-10-8165	15-610811	1 to 2	ALLH	18500	1.08 (U)	2.77	163 (J+)	1.21	0.18 (J)	2190	18.7	5.63 (J)	8.14 (J)	0.267 (U)	16200	13.8 (J)
PRS 15-007(c) Sample association	RE15-10-8166	15-610812	0 to 0.5	ALLH	4420	1.22 (U)	1.56	71.9 (J+)	0.364	0.609 (U)	2950	13.2	2.36 (J)	8.45 (J)	0.305 (U)	8980	15.3 (J)
PRS 15-007(c) Sample association	RE15-10-8167	15-610812	1 to 1.5	ALLH	3660	1.13 (U)	2.91	74.9 (J+)	1.04	0.121 (J)	4220	10.8	2.38 (J)	5.35 (J)	0.255 (U)	8490	19.6 (J+)
PRS 15-007(c) Sample association	RE15-10-8168	15-610813	0 to 0.5	ALLH	4640	1.16 (UJ)	1.27	83.3 (J+)	0.423	0.122 (J)	3110 (J+)	12.8	3.14	6.58	0.286 (U)	8740	45.9 (J)
PRS 15-007(c) Sample association	RE15-10-8169	15-610813	1 to 1.5	ALLH	13900	1.76	3.28	173 (J+)	1.56	0.226 (J)	2480 (J+)	17.4	5.16	8.1	0.288 (U)	12500	180 (J)
PRS 15-007(c) Sample association	RE15-10-8170	15-610814	0 to 0.5	ALLH	3200	243	3.63	49.5 (J+)	0.47	0.313 (J)	1550 (J+)	6.34	2.21	9.11	0.257 (U)	10500	63700 (J)
PRS 15-007(c) Sample association	RE15-10-8171	15-610814	1 to 2	QBT3	15100	0.414 (U)	2.72	180 (J+)	1.13	0.159 (J)	2240 (J+)	15.5	6.75	8.99	0.245 (U)	14700	90.6 (J)
PRS 15-007(c) Sample association	RE15-10-8174	15-610816	3.5 to 5	QBT3	6720 (J+)	1.05 (UJ)	1.85	173 (J+)	0.776	0.367 (J)	2930	7.14 (J)	4.72	5.26	0.245 (U)	11500	11.6

PRS 15-007(c) Sample association	RE15-10-8175	15-610816	17.5 to 20	QBT3	652 (J+)	0.993 (UJ)	0.302 (J)	17.2 (J+)	0.213	0.266 (J)	318	5.02 (J)	0.481 (J)	1.95	0.221 (U)	8310	2.43
PRS 15-007(c) Sample association	RE15-10-8176	15-610816	34 to 35	QBT3	5060 (J+)	1.05 (UJ)	1.14	35.3 (J+)	1.37	0.305 (J)	1120	6.11 (J)	0.924	3.52	0.246 (U)	8750	4.12
PRS 15-007(c) Sample association	RE15-10-8177	15-610816	49 to 50	QBT3	3060 (J+)	5 (UJ)	1.09	18.9 (J+)	1.36	0.25 (J)	779	2.29 (J)	0.709	3.07	0.231 (U)	8400	2.96
PRS 15-007(c) Sample association	RE15-10-8178	15-610816	65 to 66	QBT3	835 (J+)	4.87 (UJ)	0.249 (J)	15.9 (J+)	0.457	0.229 (J)	523	1.56 (J)	0.486 (J)	1.86	0.256 (U)	6690	4.42
PRS 15-007(c) Sample association	RE15-10-8179	15-610816	79 to 80	QBT3	288	0.99 (U)	1.01 (UJ)	8.51	0.244 (J-)	0.212 (J)	414	2.23	0.387 (J)	1.64	0.254 (U)	6490	2.47
PRS 15-007(c) Sample association	RE15-10-8180	15-610816	94 to 95	QBT3	276	0.95 (U)	0.985 (UJ)	8.47	0.326 (J-)	0.216 (J)	254	1.72	0.444 (J)	1.85	0.254 (U)	6980	2.93
PRS 15-007(c) Sample association	RE15-10-8181	15-610816	109 to 110	QBT3	780	1.01 (U)	1.02 (UJ)	16.1	0.286 (J-)	0.35 (J)	586	3.34	0.595	1.98	0.255 (U)	8080	4.65
PRS 15-007(c) Sample association	RE15-10-8182	15-610816	124 to 125	QBT2	1500	1.01 (U)	0.384 (J-)	16.3	0.779 (J-)	0.165 (J)	671	24.8	0.628	2.61	0.255 (U)	6350	3.51
PRS 15-007(c) Sample association	RE15-10-8183	15-610816	139 to 140	QBT2	1050	0.947 (U)	0.634 (J-)	14.4	1.54 (J-)	0.179 (J)	292	11.3	1.24	5.13	0.258 (U)	6090	4.83
PRS 15-007(c) Sample association	RE15-10-8184	15-610816	154 to 155	QBT2	4010	1.03 (U)	1.09 (J-)	19.7	8.68 (J-)	0.206 (J)	950	5.45	0.584	2.85	0.252 (U)	5910	3.86
PRS 15-007(c) Sample association	RE15-10-8185	15-610816	169 to 170	QBT1G	4670	1.07 (U)	0.728 (J-)	22.2	3.14 (J-)	0.249 (J)	1010	4.04	0.686	2.52	0.275 (U)	6590	4.19
PRS 15-007(c) Sample association	RE15-10-8210	15-610816	181.5 to 182.5	QBT1G	3990	1.01 (U)	0.714 (J-)	21.3	2.46 (J-)	0.256 (J)	1180	4.61	0.875	2.91	0.258 (U)	7600	4.43
PRS 15-007(c) Sample association	RE15-10-8186	15-610817	4 to 5	QBT3	1560 (J+)	0.996 (UJ)	0.407 (J)	22.4	0.212	0.498 (U)	471	1.66 (J-)	0.601	1.35	0.243 (U)	6830	3.68
PRS 15-007(c) Sample association	RE15-10-8187	15-610817	18 to 20	QBT3	788 (J+)	5.13 (UJ)	0.256 (J)	12.4	0.314	0.513 (U)	245 (J)	4.79 (J-)	0.408 (J)	0.96 (J)	0.242 (U)	5570	1.89
PRS 15-007(c) Sample association	RE15-10-8188	15-610817	34 to 35	QBT3	759 (J+)	0.997 (UJ)	0.231 (J)	12.1	0.268	0.498 (U)	273 (J)	0.947 (J-)	0.435 (J)	1.07	0.223 (U)	5840	3.31
PRS 15-007(c) Sample association	RE15-10-8189	15-610817	49 to 50	QBT3	938 (J+)	4.67 (UJ)	0.198 (J)	16	0.407	0.467 (U)	321 (J)	15.4 (J-)	0.6	1.48	0.253 (U)	7550	3.7
PRS 15-007(c) Sample association	RE15-10-8190	15-610817	64 to 65	QBT3	690 (J+)	4.71 (UJ)	0.965 (U)	8.21	0.283	0.471 (U)	223 (J)	2.09 (J-)	0.378 (J)	1.05	0.252 (U)	5820	3.85
PRS 15-007(c) Sample association	RE15-10-8191	15-610817	79 to 80	QBT3	616 (J+)	4.53 (UJ)	1 (U)	10.2	0.246	0.453 (U)	238 (J)	2.09 (J-)	0.47	1.23	0.217 (U)	6370	3
PRS 15-007(c) Sample association	RE15-10-8192	15-610817	94 to 95	QBT3	577 (J+)	4.88 (UJ)	0.955 (U)	8.71	0.312	0.488 (U)	209 (J)	2.2 (J-)	0.421 (J)	1.34	0.239 (U)	6350	3.33
PRS 15-007(c) Sample association	RE15-10-8193	15-610817	109 to 110	QBT3	458 (J+)	0.941 (UJ)	0.255 (J)	7.52	0.314	0.471 (U)	207 (J)	1.2 (J-)	0.414 (J)	1	0.253 (U)	5810	2.29
PRS 15-007(c) Sample association	RE15-10-8194	15-610817	124 to 126	QBT2	848 (J+)	0.993 (UJ)	0.741 (J)	17.2	0.429	0.496 (U)	450	2.33 (J-)	0.482 (J)	1.67	0.226 (U)	6630	4.05
PRS 15-007(c) Sample association	RE15-10-8195	15-610817	139 to 140	QBT2	870 (J+)	4.87 (UJ)	0.415 (J)	13.4	0.476	0.487 (U)	642	4.93 (J-)	0.592	1.12	0.231 (U)	5690	4.34
PRS 15-007(c) Sample association	RE15-10-8196	15-610817	156 to 157.5	QBT2	919 (J+)	0.953 (UJ)	0.327 (J)	13.5	0.462	0.476 (U)	597	16.1 (J-)	0.45 (J)	1.64	0.218 (U)	5930	4.44
PRS 15-007(c) Sample association	RE15-10-8197	15-610817	171.5 to 172.5	QBT1G	730 (J+)	4.79 (UJ)	0.259 (J)	11	0.462	0.479 (U)	579	1.71 (J-)	0.324 (J)	1.42	0.227 (U)	5970	4.5
PRS 15-007(c) Sample association	RE15-10-8211	15-610817	181.5 to 182.5	QBT1G	714 (J+)	4.69 (UJ)	0.288 (J)	12.1	0.44	0.469 (U)	580	1.59 (J-)	0.418 (J)	1.58	0.239 (U)	6270	4.91
PRS 15-007(c) Sample association	RE15-10-8198	15-610818	4 to 5	QBT3	411	0.903 (U)	1.07	13.2	0.275	0.452 (U)	207	2.75	0.363 (J)	0.784 (J)	0.251 (U)	6100	25.7
PRS 15-007(c) Sample association	RE15-10-8199	15-610818	19 to 20	QBT3	516	0.934 (U)	1.73	11.5	0.326	0.467 (U)	495	4.63	0.42 (J)	1.27	0.255 (U)	7400	17.9
PRS 15-007(c) Sample association	RE15-10-8200	15-610818	34 to 35	QBT3	256	0.91 (U)	2.29	8.43	0.401	0.455 (U)	205	3.29	0.315 (J)	0.76 (J)	0.249 (U)	6320	9.09
PRS 15-007(c) Sample association	RE15-10-8201	15-610818	49 to 50	QBT3	353	0.936 (U)	1.02	15	0.434	0.468 (U)	293	2.36	0.308 (J)	0.937	0.226 (U)	6690	2.08
PRS 15-007(c) Sample association	RE15-10-8202	15-610818	63.5 to 65	QBT3	1070 (J+)	1 (U)	0.918 (U)	10.9	0.338	0.131 (J)	254	1.36 (J)	0.356 (J)	1.1	0.22 (U)	6260	4.46
PRS 15-007(c) Sample association	RE15-10-8203	15-610818	79 to 80	QBT3	720 (J+)	0.976 (U)	0.982 (U)	5.83	0.277	0.488 (U)	217	1.56 (J)	0.298 (J)	0.786 (J)	0.23 (U)	5090	2.35
PRS 15-007(c) Sample association	RE15-10-8204	15-610818	94 to 95	QBT3	734 (J+)	1.01 (U)	0.985 (U)	4.51	0.334	0.507 (U)	273	1.1 (J)	0.254 (J)	1.02	0.25 (U)	4620	2.56
PRS 15-007(c) Sample association	RE15-10-8205	15-610818	109 to 110	QBT3	490 (J+)	1 (U)	2.06	4.35	0.448	0.5 (U)	125	1.96 (J)	0.201 (J)	0.39 (J)	0.0898 (J)	6670	2.38
PRS 15-007(c) Sample association	RE15-10-8206	15-610818	124 to 130	QBT2	1310 (J+)	1.01 (U)	0.469 (J)	12.5	1.1	0.507 (U)	495	5.14 (J)	0.508	1.45	0.24 (U)	5880	4.34
PRS 15-007(c) Sample association	RE15-10-8207	15-610818	139 to 140	QBT2	1480 (J+)	0.964 (U)	0.393 (J)	12.3	0.718	0.482 (U)	482	3.18 (J)	0.669	1.48	0.256 (U)	5570	3.99
PRS 15-007(c) Sample association	RE15-10-8208	15-610818	154 to 155	QBT2	1440 (J+)	1.02 (U)	0.582 (J)	8.89	0.559	0.509 (U)	371	4.21 (J)	0.581	1.26	0.248 (U)	6320	3.04
PRS 15-007(c) Sample association	RE15-10-8209	15-610818	169 to 170	QBT1G	1100 (J+)	1.01 (U)	0.431 (J)	7.21	0.462	0.505 (U)	440	10.6 (J)	0.448 (J)	1.27	0.245 (U)	5950	5.14
PRS 15-007(c) Sample association	RE15-10-8212	15-610818	180 to 182.5	QBT1G	982 (J+)	0.988 (U)	0.34 (J)	4.45	0.267	0.494 (U)	559	1.59 (J)	0.501	1.14	0.249 (U)	5980	5.02
PRS 15-007(d) Sample association	RE15-10-8240	15-610819	4 to 5	QBT3	1640	0.991 (UJ)	0.528 (J)	—	0.342	0.114 (J)	1530	2.7	0.567	1.69	0.244 (U)	7240	3.04
PRS 15-007(d) Sample association	RE15-10-8241	15-610819	19 to 20	QBT3	965	1 (UJ)	0.288 (J)	—	0.442	0.5 (U)	263	2.27	0.299 (J)	1.47	0.222 (U)	6120	3.13
PRS 15-007(d) Sample association	RE15-10-8242	15-610819	33 to 35	QBT3	1070	0.98 (UJ)	0.416 (J)	—	0.211	0.119 (J)	355	2.42	0.467 (J)	1.48	0.235 (U)	7040	3.31
PRS 15-007(d) Sample association	RE15-10-8243	15-610819	49 to 50	QBT3	1130	0.99 (UJ)	0.248 (J)	—	0.303	0.495 (U)	389	3.04	0.369 (J)	1.63	0.24 (U)	6400	3.71
PRS 15-007(d) Sample association	RE15-10-8244	15-610819	64 to 65	QBT3	1190	1.02 (UJ)	0.29 (J)	—	0.374	0.143 (J)	723	2.6	0.591	2.3	0.251 (U)	9480	6.94
PRS 15-007(d) Sample association	RE15-10-8245	15-610819	79 to 80	QBT3	597	0.958 (UJ)	0.197 (J)	—	0.258	0.121 (J)	298	0.561	0.328 (J)	1.54	0.252 (U)	6010	3.02
PRS 15-007(d) Sample association	RE15-10-8246	15-610819	104 to 105	QBT3	966	4.69 (UJ)	0.321 (J)	—	0.287	0.157 (J)	460	0.781	0.494	2.06	0.249 (U)	7810	5.34
PRS 15-007(d) Sample association	RE15-10-8247	15-610819	109 to 110	QBT3	875 (J+)	1.01 (U)	0.961 (U)	13	0.868	0.507 (U)	332 (J+)	1.39	0.237 (J)	1.17	0.232 (U)	6410	1.74
PRS 15-007(d) Sample association	RE15-10-8248	15-610819	123.5 to 125	QBT2	1310 (J+)	0.95 (U)	0.374 (J)	13.9	0.48	0.475 (U)	646 (J+)	2.4	0.55	0.954	0.244 (U)	5920	3.94

PRS 15-007(d) Sample association	RE15-10-8249	15-610819	138.5 to 140	QBT2	1030 (J+)	0.963 (U)	0.386 (J)	8.53	0.495	0.482 (U)	145 (J+)	9.27	1.57	0.846 (J)	0.227 (U)	5380	3.37
PRS 15-007(d) Sample association	RE15-10-8250	15-610819	154 to 155	QBT2	1020 (J+)	0.968 (U)	0.338 (J)	11.3	0.518	0.484 (U)	291 (J+)	2.8	0.229 (J)	1.11	0.232 (U)	6590	4.19
PRS 15-007(d) Sample association	RE15-10-8251	15-610819	169 to 170	QBT1G	1240 (J+)	1.02 (U)	0.393 (J)	9.84	0.576	0.512 (U)	462 (J+)	2.33	0.191 (J)	1.19	0.257 (U)	5910	3.74
PRS 15-007(d) Sample association	RE15-10-8264	15-610819	181.5 to 182.5	QBT1G	1090 (J+)	1.01 (U)	0.261 (J)	10.4	0.354	0.504 (U)	446 (J+)	2.11	0.336 (J)	1.17	0.255 (U)	5890	3.98
PRS 15-007(d) Sample association	RE15-10-8252	15-610820	4 to 5	QBT3	1440 (J+)	0.998 (U)	0.345 (J)	20.8	0.282	0.499 (U)	453 (J+)	2.09	0.322 (J)	0.989 (J)	0.243 (U)	6750	2.59
PRS 15-007(d) Sample association	RE15-10-8253	15-610820	18 to 20	QBT3	1450 (J+)	0.947 (U)	0.241 (J)	16.4	0.346	0.474 (U)	368 (J+)	3.32	0.511	1.23	0.238 (U)	6870	2.33
PRS 15-007(d) Sample association	RE15-10-8254	15-610820	34 to 35	QBT3	4270 (J+)	0.964 (U)	0.551 (J)	18.8	1.67	0.482 (U)	587 (J+)	4.95	0.538	2.33	0.241 (U)	7600	3.29
PRS 15-007(d) Sample association	RE15-10-8255	15-610820	48.5 to 50	QBT3	1070 (J+)	0.998 (U)	0.286 (J)	10.1	0.376	0.499 (U)	354	1.62	0.274 (J)	0.788 (J)	0.222 (U)	6670	2.62
PRS 15-007(d) Sample association	RE15-10-8256	15-610820	63.5 to 65	QBT3	1160 (J+)	1 (U)	0.972 (U)	8.48	0.289	0.502 (U)	301	1.78	0.26 (J)	0.919 (J)	0.257 (U)	6540	4.41
PRS 15-007(d) Sample association	RE15-10-8257	15-610820	79 to 80	QBT3	848 (J+)	0.963 (U)	0.989 (U)	6.84	0.227	0.481 (U)	573	2.11	0.265 (J)	1.09	0.226 (U)	6780	2.88
PRS 15-007(d) Sample association	RE15-10-8258	15-610820	93.5 to 95	QBT3	644 (J+)	0.978 (U)	0.98 (U)	5.45	0.326	0.489 (U)	347	0.991	0.192 (J)	1	0.227 (U)	4910	2.76
PRS 15-007(d) Sample association	RE15-10-8259	15-610820	108.5 to 110	QBT3	935 (J+)	0.992 (U)	0.589 (J)	10.7	0.804	0.118 (J)	287	1.21	0.284 (J)	1.42	0.252 (U)	6850	4.2
PRS 15-007(d) Sample association	RE15-10-8260	15-610820	124 to 125	QBT2	1180 (J+)	1 (U)	0.389 (J)	10.6	0.56	0.502 (U)	589	18.7	0.834	1.11	0.244 (U)	6040	3.87
PRS 15-007(d) Sample association	RE15-10-8261	15-610820	138.5 to 140	QBT2	1470 (J+)	0.985 (U)	0.362 (J)	11.3	0.506	0.493 (U)	793	12	0.66	1.34	0.254 (U)	6980	4.67
PRS 15-007(d) Sample association	RE15-10-8262	15-610820	153.5 to 155	QBT2	899 (J+)	0.968 (U)	0.329 (J)	7.49	0.488	0.484 (U)	475	2.45	0.484 (U)	1	0.24 (U)	5530	3.59
PRS 15-007(d) Sample association	RE15-10-8263	15-610820	168.5 to 170	QBT2	893 (J+)	0.965 (U)	0.242 (J)	7.58	0.451	0.482 (U)	509	2.09	0.146 (J)	1.17	0.245 (U)	5760	4.02
PRS 15-007(d) Sample association	RE15-10-8265	15-610820	178 to 180	QBT1V	932 (J+)	1 (U)	0.285 (J)	6.97	0.522	0.501 (U)	530	3	0.205 (J)	1.06	0.236 (U)	6040	4.9
PRS 15-008(b) Sample association	AAB3503	15-02500	0 to 0.5	ALLH	5810	4.5 (U)	3.1	110	3.3	0.43 (U)	1690	5.5	1.8 (U)	900	—	6820	413
PRS 15-008(b) Sample association	AAB3504	15-02500	1.5 to 2	ALLH	1700	3.9 (U)	1.7 (U)	28.7 (U)	0.41 (U)	0.43 (U)	736 (U)	4.6	1.3 (U)	12.4	—	4250	12.4
PRS 15-008(b) Sample association	AAB3398	15-02501	0 to 0.5	ALLH	4850	3.9 (U)	2.4	111	10.6	0.43 (U)	1930	7.2	1.4 (U)	1040	—	5900	77.9
PRS 15-008(b) Sample association	AAB3530	15-02501	1.5 to 2	ALLH	2060	3.9 (U)	1.1 (U)	19.9 (U)	0.36 (U)	0.44 (U)	460 (U)	1.8 (U)	1.3 (U)	3.6 (U)	—	6110	3.1
PRS 15-008(b) Sample association	AAB3355	15-02502	0 to 0.5	ALLH	3000	3.7 (U)	1.8 (U)	108	35.5	0.41 (U)	3150	20.2	2.2 (U)	550	—	5260	175
PRS 15-008(b) Sample association	AAB3401	15-02502	1.5 to 2	ALLH	2230	4 (U)	1.5 (U)	58.1	11.9	0.45 (U)	1190	16	5.2 (U)	784	—	5250	67
PRS 15-008(b) Sample association	AAB3353	15-02503	0 to 0.5	ALLH	4650	8.6 (U)	6.6	83.2	17.1	0.59 (U)	1860	9.8	1.8 (U)	4110	—	5700	1250
PRS 15-008(b) Sample association	AAB3352	15-02503	1.5 to 2	ALLH	6010	4 (U)	2.8	52.8	0.93 (U)	0.44 (U)	1190	4.5	1.7 (U)	14.6	—	6980	14
PRS 15-008(b) Sample association	RE15-10-7869	15-610704	0 to 0.5	ALLH	7330	1.31 (UJ)	3.12	87.2	3.07 (J+)	0.654 (U)	1800 (J+)	6.77	2.77	—	0.319 (U)	10000	64.2 (J-)
PRS 15-008(b) Sample association	RE15-10-7870	15-610704	1 to 2.5	QBT3	1230	1.14 (UJ)	0.793 (J)	27.4	0.395 (J+)	0.572 (U)	366 (J+)	5.35	9.38	—	0.271 (U)	7600	9.93 (J-)
PRS 15-008(b) Sample association	RE15-10-7871	15-610705	0 to 0.5	ALLH	2520	2.07 (J-)	1.84	91.7	4.12 (J+)	0.547 (U)	1240 (J+)	6.81	1.37	—	0.275 (U)	7380	147 (J-)
PRS 15-008(b) Sample association	RE15-10-7872	15-610705	2 to 3	QBT3	2380	1.66 (J-)	1.82	117	4.55 (J+)	0.316 (J)	2150 (J+)	6.55	1.61	—	0.261 (U)	7270	157 (J-)
PRS 15-008(b) Sample association	RE15-10-7873	15-610706	0 to 0.5	ALLH	3280	1.13 (J-)	2.27	47.6	3.56 (J+)	0.276 (J)	1040 (J+)	4.03	2.69	—	0.286 (U)	8010	95.1 (J-)
PRS 15-008(b) Sample association	RE15-10-7874	15-610706	2 to 3.5	QBT3	1320	1 (UJ)	1.08	30.1	0.848 (J+)	0.502 (U)	448 (J+)	2.89	4.66	—	0.233 (U)	9340	17.1 (J-)
PRS 15-008(b) Sample association	RE15-10-7875	15-610707	0 to 0.5	ALLH	6360	0.677 (J)	2.19	90.1 (J)	2.12	0.59 (U)	1710 (J+)	10.3	3.12	225 (J+)	0.29 (U)	9410	63.5
PRS 15-008(b) Sample association	RE15-10-7876	15-610707	2.5 to 3.5	QBT3	1480	0.997 (U)	0.915 (J)	22.2 (J)	0.316	0.499 (U)	370 (J+)	8.96	3.6	15.7 (J+)	0.0755 (U)	8830	26.1
PRS 15-008(b) Sample association	RE15-10-7877	15-610708	0 to 0.5	ALLH	4460	1.49	1.74	55 (J)	2.57	0.537 (U)	1300 (J+)	11.7	3.41	131 (J+)	0.0796 (U)	8160	85.4
PRS 15-008(b) Sample association	RE15-10-7878	15-610708	3 to 4	QBT3	1350	1.01 (U)	0.586 (J)	16.8 (J)	0.204	0.506 (U)	273 (J+)	21.4	3.85	3.7 (J+)	0.0785 (U)	8880	3.42
PRS 15-008(b) Sample association	RE15-10-7879	15-610709	0 to 0.5	ALLH	6400	4.33	4.78	68.4 (J)	1.12	0.752 (U)	1320 (J+)	7.17	3.53	110 (J+)	0.125 (U)	9510	977
PRS 15-008(b) Sample association	RE15-10-7880	15-610709	2.8 to 3.6	QBT3	1640 (J+)	1.07 (U)	0.915 (J)	19.6	0.235	0.533 (U)	308	8.57 (J)	4.77 (J)	3.66	0.27 (U)	8040	34.4 (J-)
PRS 15-008(b) Sample association	RE15-10-7881	15-610710	0 to 0.5	ALLH	3450	1.25 (U)	1.49 (J)	44.6 (J-)	2.82	0.731 (U)	1400	13	2.13	16.7	0.298 (J)	9600	15.8 (J)
PRS 15-008(b) Sample association	RE15-10-7882	15-610710	1 to 1.6	QBT3	2020	0.968 (U)	1.07 (J)	21 (J-)	0.248	0.56 (U)	529	25.7	6.65	4.87	0.286 (U)	8730	3.42 (J)
PRS 15-008(b) Sample association	RE15-10-7883	15-610711	0 to 0.4	ALLH	5870	1.58 (U)	1.56	77.6 (J)	0.549	0.717 (U)	1290 (J)	12.7	6.09	10.1	0.363 (U)	10500	14.3 (J)
PRS 15-008(b) Sample association	RE15-10-7884	15-610711	3 to 3.8	QBT3	4780	0.458 (U)	1.16	46.2 (J)	0.427	0.509 (U)	700 (J)	11.1	3.49	3.45	0.25 (U)	11100	5.71 (J)
PRS 15-008(b) Sample association	RE15-10-7885	15-610712	0 to 0.4	ALLH	4690	1.76 (U)	2.03	61.9 (J-)	1.37	7.98	1370	6.51	10.1	118	0.154 (J)	10700	43.8
PRS 15-008(b) Sample association	RE15-10-7886	15-610712	3 to 3.5	QBT3	1960	0.694 (U)	0.774 (J)	25.2 (J-)	0.38	0.533 (U)	364	10.1	14.8	5.92	0.252 (U)	9470	5.13 (J)
PRS 15-008(b) Sample association	RE15-10-7887	15-610713	0 to 0.6	ALLH	6770	1.09 (U)	2.13	61.2 (J-)	0.753	0.725 (U)	1420	15	8.08	11.9	0.322 (U)	13200	17.6
PRS 15-008(b) Sample association	RE15-10-7888	15-610713	3 to 4	QBT3	7810	0.878 (U)	2.52	118 (J-)	0.67	0.528 (U)	4570	7.42	8.4	7.27	0.255 (U)	12500	9.04 (J)
PRS 15-008(b) Sample association	RE15-10-7889	15-610714	0 to 0.5	ALLH	4760	5.16 (J)	1.51 (J)	58.2 (J-)	4.94	0.768 (U)	1180	8.14	6.4	813	0.398 (U)	11500	128
PRS 15-008(b) Sample association	RE15-10-7890	15-610714	2.5 to 3.5	QBT3	7060	1.84 (U)	1.66	80.1 (J-)	1.29	0.512 (U)	1680	14.8	6.97	54.6	0.272 (U)	13000	24.5

PRS 15-008(b) Sample association	RE15-10-7891	15-610715	0 to 0.5	ALLH	7040 (J+)	1.31	2.23	78.3	2.95	0.259 (J)	27600	10.6 (J)	7.41 (J)	280	0.331 (U)	10400	117 (J-)
PRS 15-008(b) Sample association	RE15-10-7892	15-610715	3 to 4	QBT3	4330 (J+)	0.974 (U)	1.12	43.4	0.559	0.487 (U)	2880	23.8 (J)	3.53 (J)	7.36	0.258 (U)	7650	8.15 (J)
PRS 15-008(b) Sample association	RE15-10-7893	15-610716	0 to 0.5	SED	3750	1.26 (UJ)	2.14	53.9 (J)	0.918	0.629 (U)	1480 (J)	34.2	2.65	5.73	0.0977 (J)	8060	31.3
PRS 15-008(b) Sample association	RE15-10-7894	15-610716	1 to 2	SED	5250	1.16 (UJ)	1.6	75.9 (J)	0.674	0.148 (J)	2060 (J)	22	3.45	8.66	0.101 (J)	9860	9.33
PRS 15-008(b) Sample association	RE15-10-7895	15-610717	0 to 0.5	SED	4510	1.05 (UJ)	1.74	30.6 (J)	1.32	0.523 (U)	1270 (J)	4.99 (J)	0.95	7.13	0.272 (U)	9170	6.94
PRS 15-008(b) Sample association	RE15-10-7896	15-610717	1 to 2	QBT3	4140	1.02 (UJ)	1.47	26.6 (J)	1.33	0.509 (U)	963 (J)	10.4	0.768	5.68	0.242 (U)	9460	5.41
PRS 15-008(b) Sample association	RE15-10-7897	15-610718	0 to 0.5	SED	10700	1.09 (UJ)	3.09	66.3 (J)	2.65	0.544 (U)	2790 (J)	14.5	3.13	33.3	0.287 (U)	14300	32.5
PRS 15-008(b) Sample association	RE15-10-7898	15-610718	1 to 2	SED	12400	1 (UJ)	4.96	65.9 (J)	2.91	0.5 (U)	2900 (J)	23.3	4.58	18.1	0.284 (U)	15600	14
PRS 15-008(b) Sample association	RE15-10-7899	15-610719	0 to 0.5	SED	6510	1.22 (UJ)	1.41	54.6 (J)	0.62	0.611 (U)	2180 (J)	15.6	3.64	5.32	0.307 (U)	22300	9.46
PRS 15-008(b) Sample association	RE15-10-7900	15-610719	1 to 1.5	QBT3	6150	1.05 (UJ)	2	44.3 (J)	1.06	0.11 (J)	1040 (J)	17.8	3.47	6.27	0.257 (U)	15300	7.69
PRS 15-008(b) Sample association	RE15-10-7901	15-610720	0 to 0.5	ALLH	6530 (J+)	1.48 (U)	2.35	93.6	1.08	0.581 (J)	3740	7.5	3.52	12	0.188 (J)	10200	14.5
PRS 15-008(b) Sample association	RE15-10-7902	15-610720	1 to 2	ALLH	6160 (J+)	1.07 (U)	1.55	71	0.62	0.535 (U)	1600	7.82	3.61	5.7	0.274 (U)	10800	9.62
PRS 15-008(b) Sample association	RE15-10-7903	15-610721	0 to 0.5	ALLH	6620	1.18 (U)	1.93	76.7 (J-)	0.746	0.327 (J)	1550 (J-)	7.47	2.88	7.12	0.272 (U)	16500	15.2 (J)
PRS 15-008(b) Sample association	RE15-10-7904	15-610721	1 to 1.9	ALLH	7170	1.06 (U)	1.74	83.8 (J-)	0.893	0.227 (J)	1370 (J-)	26.3	1.3	6.67	0.269 (U)	13900	7.4 (J)
PRS 15-008(b) Sample association	RE15-10-7905	15-610722	0 to 0.5	ALLH	3450	5.43 (J-)	3.46	66.5	2.75 (J+)	0.615 (U)	7200 (J+)	7.7	3.79	—	0.302 (U)	9340	644 (J-)
PRS 15-008(b) Sample association	RE15-10-7906	15-610722	3 to 3.8	QBT3	1290	1.11 (UJ)	1.59	20.8	0.849 (J+)	0.553 (U)	607 (J+)	3.56	1.62	—	0.244 (U)	6200	15.4 (J-)
PRS 15-008(b) Sample association	RE15-10-7907	15-610723	0 to 0.5	ALLH	5350	1.16 (J-)	3.44	101	4.84 (J+)	0.618 (U)	2800 (J+)	6.67	2.3	—	0.309 (U)	8430	179 (J-)
PRS 15-008(b) Sample association	RE15-10-7908	15-610723	2.9 to 3.5	QBT3	1860	1.96 (J-)	5.91	48.2	3.17 (J+)	0.525 (U)	752 (J+)	5.43	5.93	—	0.239 (U)	8600	170 (J-)
PRS 15-008(b) Sample association	RE15-10-7909	15-610724	0 to 0.5	ALLH	4080	0.93 (J-)	1.91	128	6.73 (J+)	0.283 (J)	1440 (J+)	8.01	2.17	—	0.265 (U)	8180	266 (J-)
PRS 15-008(b) Sample association	RE15-10-7910	15-610724	3 to 3.6	QBT3	1210	1.19 (J-)	1.58	26.8	3.27 (J+)	0.537 (U)	440 (J+)	3.01	3.17	—	0.252 (U)	6500	75.4 (J-)
PRS 15-008(b) Sample association	RE15-10-7911	15-610725	0 to 0.3	ALLH	2420	5.54 (J-)	1.32	122	16.5 (J+)	0.569	1700 (J+)	13.4	1.88	—	0.268 (U)	6290	274 (J-)
PRS 15-008(b) Sample association	RE15-10-7912	15-610725	3 to 4	QBT3	5170	2.27 (J-)	1.54	85.5	2.15 (J+)	0.184 (J)	8790 (J+)	5.37	1.31	—	0.283 (U)	6760	79.1 (J-)
PRS 15-008(b) Sample association	RE15-10-7913	15-610726	0 to 0.3	ALLH	12600	1.21 (UJ)	3.63	85.1	1.71 (J+)	0.605 (U)	2930 (J+)	11.6	4.52	—	0.3 (U)	15500	14.1 (J-)
PRS 15-008(b) Sample association	RE15-10-7914	15-610726	2 to 3	QBT3	6160	1.07 (U)	1.44	93.6 (J-)	0.529	0.534 (U)	2250	7.79 (J)	8.49 (J)	6.43	0.261 (U)	15000	5.19 (J)
PRS 15-008(b) Sample association	RE15-10-7915	15-610727	0 to 0.4	ALLH	7420	2.16 (U)	1.79	125 (J-)	5.87	0.164 (J)	2150	12.6 (J)	3.66 (J)	451	0.294 (U)	12200	125
PRS 15-008(b) Sample association	RE15-10-7916	15-610727	2 to 3.1	QBT3	1140	1.03 (U)	0.899 (J)	22.9 (J-)	0.609	0.515 (U)	379 (J)	1.95 (U)	1.92 (J)	7.13	0.248 (U)	10900	6.05 (J)
PRS 15-008(b) Sample association	RE15-10-7917	15-610728	0 to 0.6	ALLH	5210	1.2 (U)	1.8	34.4 (J-)	0.565	0.6 (U)	834 (J)	6.08 (J)	4.18 (J)	5.1	0.307 (U)	10300	9.29 (J)
PRS 15-008(b) Sample association	RE15-10-7918	15-610728	1.3 to 3.6	QBT3	7110	1.08 (U)	2.25	88.2 (J-)	0.908	0.539 (U)	2480	19.6 (J)	2.46 (J)	4.57	0.271 (U)	10600	5.38 (J)
PRS 15-008(b) Sample association	RE15-10-7919	15-610729	0 to 0.5	ALLH	8030	1.15 (U)	2.13	84.6 (J-)	2.95	0.577 (U)	1830	8.28 (J)	3.45 (J)	156	0.323 (U)	12900	36.1
PRS 15-008(b) Sample association	RE15-10-7920	15-610729	2 to 3.3	QBT3	3000	0.464 (U)	1.37	45.9 (J-)	1.29	0.516 (U)	773 (J)	7.83 (J)	2.8 (J)	47.6	0.255 (U)	12900	25.8
PRS 15-008(b) Sample association	RE15-10-7921	15-610730	0 to 0.5	ALLH	5090	2.2 (U)	1.89	64.9 (J-)	2.32	0.143 (J)	1200	6.38 (J)	3.45 (J)	260	0.298 (U)	9890	91.8
PRS 15-008(b) Sample association	RE15-10-7922	15-610730	2 to 3	QBT3	7490	0.836 (U)	2.2	71.8 (J-)	1.6	0.531 (U)	1750	9.58 (J)	5.92 (J)	726	0.272 (U)	19900	65.8
PRS 15-008(b) Sample association	RE15-10-7923	15-610731	0 to 0.5	QBT3	2430	2.45	1.32	48.9 (J)	1.68	0.513 (U)	1000 (J+)	5	1.03	307 (J+)	0.258 (U)	6770	71.7
PRS 15-008(b) Sample association	RE15-10-7924	15-610731	2 to 3	QBT3	1640	0.575 (J)	1.08	28.3 (J)	0.29	0.472 (U)	581 (J+)	12.7	5.43	6.51 (J+)	0.0986 (U)	9540	5.23
PRS 15-008(b) Sample association	RE15-10-7925	15-610732	0 to 0.5	ALLH	3270	3.53	1.27	95.4 (J)	47.5	0.583 (U)	2120 (J+)	8.74	1.84	289 (J+)	0.106 (U)	8760	241
PRS 15-008(b) Sample association	RE15-10-7926	15-610732	2 to 2.8	QBT3	1570	0.947 (J)	0.841 (J)	27.2 (J)	0.333	0.492 (U)	538 (J+)	14.7	4.1	8.38 (J+)	0.104 (U)	10000	7.68
PRS 15-008(b) Sample association	RE15-10-7927	15-610733	0 to 0.5	ALLH	7000 (J+)	0.778 (J)	2.43	97.6	5.83	1.17	2120	12.6 (J)	3.75	526	0.141 (J)	9560	102
PRS 15-008(b) Sample association	RE15-10-7928	15-610733	3 to 4	QBT3	935 (J+)	1.01 (U)	0.709 (J)	18.4	0.36	0.506 (U)	328	8.03 (J)	1.8	5.69	0.0783 (J)	7680	5.49 (J)
PRS 15-008(b) Sample association	RE15-10-7929	15-610734	0 to 0.5	ALLH	10400 (J+)	1.37 (U)	2.81	157	2.06	1.6	4070	10.8 (J)	7.19	73.3	0.232 (J)	12500	102
PRS 15-008(b) Sample association	RE15-10-7930	15-610734	2.5 to 3.5	QBT3	2300 (J+)	1.13 (U)	1.37	47.3	0.857	0.563 (U)	525	14.1 (J)	6.48	44.7	0.206 (J)	15900	15.8
PRS 15-008(b) Sample association	RE15-10-7931	15-610735	0 to 0.5	ALLH	9650	0.959 (U)	1.67	105 (J)	0.614	0.603 (U)	1590 (J)	19.9	3.39	7.78	0.269 (U)	11100	9.73 (J)
PRS 15-008(b) Sample association	RE15-10-7932	15-610735	3 to 4	QBT3	6700	0.868 (U)	1.26	77.7 (J)	0.734	0.545 (U)	1800 (J)	18.4	3.52	4.15	0.255 (U)	12100	5.67 (J)
PRS 15-008(b) Sample association	RE15-10-7933	15-610736	0 to 0.5	ALLH	3570	0.627 (U)	1.59	39.9 (J)	0.52	0.563 (U)	642 (J)	5.38	2.72	10.4	0.271 (U)	6280	6.9 (J)
PRS 15-008(b) Sample association	RE15-10-7934	15-610736	3 to 3.9	QBT3	8850	0.894 (U)	2.18	123 (J)	0.699	0.536 (U)	2620 (J)	28.3	4.42	5.24	0.277 (U)	13000	8.72 (J)
PRS 15-008(b) Sample association	RE15-10-7935	15-610737	0 to 0.3	ALLH	11400	2.52 (J)	2.88	101 (J)	2.47	0.633 (U)	2220 (J)	25.2	4.85	552	0.303 (U)	13700	123 (J)
PRS 15-008(b) Sample association	RE15-10-7936	15-610737	2.9 to 4	QBT3	1370	1.04 (U)	0.469 (J)	26.2 (J)	0.279	0.519 (U)	778 (J)	14.1	0.946	6.48	0.26 (U)	7710	6 (J)
PRS 15-008(b) Sample association	RE15-10-7937	15-610738	0 to 0.5	ALLH	9710	1.09 (U)	2.93	186 (J)	1.05	0.653 (U)	2860 (J)	16.7	9.4	33	0.315 (U)	12700	30.5 (J)

PRS 15-008(b) Sample association	RE15-10-7938	15-610738	2.9 to 3.7	QBT3	1910	0.41 (U)	0.672 (J)	35 (J)	0.358	0.513 (U)	396 (J)	41.3	1.31	2.73	0.259 (U)	8030	3.02 (J)
PRS 15-008(b) Sample association	RE15-10-7939	15-610739	0 to 0.5	ALLH	6600	0.884 (U)	3.28	82.6 (J)	1.12	0.618 (U)	1050 (J)	21.1	5.78	23.1	0.298 (U)	8380	12.7 (J)
PRS 15-008(b) Sample association	RE15-10-7940	15-610739	3 to 3.5	QBT3	3920	0.927 (U)	1.45	55.2 (J)	0.706	0.503 (U)	3040 (J)	27.7	1.12	2.91	0.235 (U)	7420	4.87 (J)
PRS 15-008(b) Sample association	RE15-10-7941	15-610740	0 to 0.5	ALLH	4960	0.893 (U)	1.72	88.4 (J-)	1.04	0.134 (J)	2010	6.54	3.6	16.6	0.324	8990	24.3
PRS 15-008(b) Sample association	RE15-10-7942	15-610740	3 to 4	QBT3	4850	0.578 (U)	1.63	63.4 (J-)	0.591	0.541 (U)	1350	8.83	4.28	4.07	0.26 (U)	7590	5.72 (J)
PRS 15-008(b) Sample association	RE15-10-7943	15-610741	0 to 1	QBT3	1320	0.797 (U)	0.839 (J)	17.2 (J-)	0.325	0.522 (U)	292	20	4.12	1.73	0.241 (U)	6350	2.48 (J)
PRS 15-008(b) Sample association	RE15-10-7944	15-610741	2.9 to 3.5	QBT3	3540	0.825 (U)	1.35	59.1 (J-)	0.44	0.533 (U)	1190	25.8	9.43	6.02	0.269 (U)	9360	4.33 (J)
PRS 15-008(b) Sample association	RE15-10-7945	15-610742	0 to 0.3	ALLH	5240	1.5 (U)	2.16	99.4 (J-)	1.67	0.258 (J)	3360	9.84	5.37	37	0.234 (J)	7940	26.3
PRS 15-008(b) Sample association	RE15-10-7946	15-610742	2.5 to 3.5	QBT3	2010	0.42 (U)	0.969 (J)	28.8 (J-)	0.322	0.51 (U)	756	15.8	17.1	5.87	0.262 (U)	9610	3.6 (J)
PRS 15-008(b) Sample association	RE15-10-7947	15-610743	0 to 0.5	ALLH	7080	3.82 (U)	2.83	112 (J-)	3.22	0.614 (J)	3340	8.8	5.66	143	0.122 (J)	11000	121
PRS 15-008(b) Sample association	RE15-10-7948	15-610743	3 to 3.9	QBT3	4800	1.97 (U)	1.65	67.5 (J-)	0.935	0.527 (U)	1650	15.3	3.61	29.4	0.261 (U)	9520	22.6
PRS 15-008(b) Sample association	RE15-10-7949	15-610744	0 to 0.5	ALLH	7470	2.25 (U)	2.46	108 (J-)	1.81	0.419 (J)	2680	14.5	4.65	88.6	0.422 (U)	12100	55.2
PRS 15-008(b) Sample association	RE15-10-7950	15-610744	1.5 to 1.7	ALLH	8490	0.759 (U)	2.67	90.2 (J-)	1.22	0.619 (U)	2710	12.7	5.47	13	0.289 (U)	12800	11.6 (J)
PRS 15-008(b) Sample association	RE15-10-7951	15-610745	0 to 0.5	QBT3	1940	0.902 (U)	1.7	36.9 (J-)	0.368	0.586 (U)	532	4.59	11.9	5.03	0.287 (U)	8270	6.44 (J)
PRS 15-008(b) Sample association	RE15-10-7952	15-610745	2.5 to 3.5	QBT3	1670	1.04 (U)	0.839 (J)	48.8	0.31 (J)	0.522 (U)	569	24 (J)	5.01	4.31 (J+)	0.268 (U)	8550	7.46 (U)
PRS 15-008(b) Sample association	RE15-10-7953	15-610746	0 to 0.8	ALLH	2950	256	2.29	89	12.2 (J)	0.448 (J)	1220	10.5 (J)	2.69	686 (J+)	0.28 (U)	6900	138000 (J)
PRS 15-008(b) Sample association	RE15-10-7954	15-610746	3 to 3.4	QBT3	3360	5.04	1.48	48.8	1.37 (J)	0.499 (U)	1100	13.4 (J)	3.09	115 (J+)	0.26 (U)	9310	578 (J)
PRS 15-008(b) Sample association	RE15-10-7955	15-610747	0 to 0.5	ALLH	3390	5.53	1.8	73.4	6.85 (J)	0.242 (J)	1460	6.87 (J)	6.08	1200 (J+)	0.263 (U)	8710	203 (J)
PRS 15-008(b) Sample association	RE15-10-7956	15-610747	3 to 3.7	QBT3	4800	0.528 (J)	2.82	54.6	29.1 (J)	0.509 (U)	2290	11.2 (J)	2.06	73.9 (J+)	0.234 (U)	8990	23.9 (J)
PRS 15-008(b) Sample association	RE15-10-7957	15-610748	0 to 1	ALLH	2540	7.9	1.84	97.9	7.22	0.636 (U)	1880 (J-)	11.7 (J)	2.69	36400	0.139 (U)	8340	473
PRS 15-008(b) Sample association	RE15-10-7958	15-610748	3 to 4	ALLH	10200	6.77	6.14	121	4.31	0.574 (U)	3530 (J-)	13.1 (J)	3.4	622	0.114 (U)	13400	283
PRS 15-008(b) Sample association	RE15-10-7959	15-610749	0 to 0.7	ALLH	4330	9.56	4.42	56.7	7.52	0.568 (U)	1190 (J-)	11.9 (J)	3.7	618	0.277 (U)	7080	777
PRS 15-008(b) Sample association	RE15-10-7960	15-610749	3 to 3.6	QBT3	2560	4.1	1.44	44.8	4.02	0.495 (U)	989 (J-)	11.5 (J)	16.5	187	0.268 (U)	10800	257
PRS 15-008(b) Sample association	RE15-10-7961	15-610750	0 to 0.5	ALLH	3710	1.91	1.78	46.5	1.66	0.538 (U)	1030 (J-)	8.57 (J)	4.99	531	0.271 (U)	9470	166
PRS 15-008(b) Sample association	RE15-10-7962	15-610750	3 to 4	QBT3	4650 (J+)	0.95 (U)	1.24 (J)	47.8	0.721 (J)	0.475 (U)	2150	5.69 (J)	8.03 (J)	30	0.244 (U)	7650	32.9 (J-)
PRS 15-008(b) Sample association	RE15-10-7963	15-610751	0 to 0.5	ALLH	4260 (J+)	1.2 (U)	1.32 (J)	56.1	0.684 (J)	0.123 (J)	1030	12.7 (J)	3.31 (J)	29	0.298 (U)	8490	17.1 (J)
PRS 15-008(b) Sample association	RE15-10-7964	15-610751	3 to 4	QBT3	8080 (J+)	1.03 (U)	1.85 (J)	78.8	0.685 (J)	0.517 (U)	1920	13.5 (J)	5.37 (J)	4.95	0.269 (U)	10100	9.07 (J)
PRS 15-008(b) Sample association	RE15-10-7965	15-610752	0 to 0.5	ALLH	5750 (J+)	1.05 (J)	1.64 (J)	85.5	1.51 (J)	0.181 (J)	1740	17.8 (J)	2.8 (J)	49.2	0.112 (J)	8510	113 (J-)
PRS 15-008(b) Sample association	RE15-10-7966	15-610752	3 to 4.2	QBT3	1180	0.434 (J)	0.796 (J)	20.3	1.59	0.526 (U)	395 (J-)	8.43 (J)	4.86	1410	0.271 (U)	7360	6.66
PRS 15-008(b) Sample association	RE15-10-7967	15-610753	0 to 0.5	ALLH	4770 (J+)	4.62	1.79	101	11.9	0.438 (J)	2650	31.7 (J)	5.55 (J)	2200	0.294 (U)	9720	363 (J-)
PRS 15-008(b) Sample association	RE15-10-7968	15-610753	3 to 3.5	QBT3	2880 (J+)	1.34	1.22 (J)	39	1.23 (J)	0.544 (U)	913	33.9 (J)	3.43 (J)	116	0.269 (U)	6750	25.3 (J-)
PRS 15-008(b) Sample association	RE15-10-7969	15-610754	0 to 0.5	ALLH	5250	1.63	1.4	162	0.623	0.543 (U)	1670 (J-)	55.8 (J)	3.45	103	0.266 (U)	9300	406
PRS 15-008(b) Sample association	RE15-10-7970	15-610754	3 to 3.3	ALLH	1920 (J+)	1.05 (U)	1.12 (J)	51.3	0.529 (J)	0.525 (U)	2010	5.68 (J)	2.15 (J)	22.1	0.257 (U)	5510	33.3 (J-)
PRS 15-008(b) Sample association	RE15-10-7971	15-610755	0 to 0.5	ALLH	5600	1.49	1.4	70.5	0.885	0.647 (U)	2010 (J-)	9.15 (J)	4.27	1010	0.338 (U)	9970	155
PRS 15-008(b) Sample association	RE15-10-7972	15-610755	3 to 3.6	QBT3	4470	1.06 (U)	1.76	52.6	0.503	0.528 (U)	952 (J-)	9.12 (J)	7.2	6.67	0.249 (U)	10200	7.57
PRS 15-008(b) Sample association	RE15-10-7973	15-610756	0 to 0.7	ALLH	5690 (J+)	0.717 (J)	2.13 (J)	68.8	1.06 (J)	0.549 (U)	1470	20.1 (J)	4.18 (J)	19.5	0.284 (U)	9990	145 (J-)
PRS 15-008(b) Sample association	RE15-10-7974	15-610756	2.7 to 3.3	QBT3	3250	0.987 (U)	2.13	28	0.412	0.494 (U)	784 (J-)	15 (J)	3.33	2.52	0.227 (U)	7760	4.12
PRS 15-008(b) Sample association	RE15-10-7975	15-610757	0 to 0.3	ALLH	5160 (J+)	1.21 (U)	2.21 (J)	63.3	1.84 (J)	1.17	1570	11.1 (J)	4.13 (J)	45.6	0.329 (U)	10700	46.4 (J-)
PRS 15-008(b) Sample association	RE15-10-7976	15-610757	3 to 3.6	QBT3	2760 (J+)	1 (U)	0.955 (J)	32.4	0.394 (J)	0.102 (J)	593	7.19 (J)	10.1 (J)	21	0.245 (U)	9830	16.4 (J)
PRS 15-008(b) Sample association	RE15-10-7977	15-610758	0 to 0.6	ALLH	11200 (J+)	1.53 (U)	2.26 (J)	159	5.26 (J)	0.232 (J)	2510	10.4 (J)	5.43 (J)	11.6	0.133 (J)	11400	33.1 (J-)
PRS 15-008(b) Sample association	RE15-10-7978	15-610758	1 to 2	ALLH	13300 (J+)	1.15 (U)	3.38 (J)	138	1.31 (J)	0.575 (U)	3240	11.5 (J)	9.04 (J)	9.91	0.0886 (J)	15000	14.1 (J)
PRS 15-008(b) Sample association	RE15-10-7979	15-610759	0 to 0.5	ALLH	4860	0.78 (J)	1.75	71.3	0.793	0.595 (U)	1130 (J-)	18.3 (J)	4.71	20.3	0.337 (U)	11200	64.2
PRS 15-008(b) Sample association	RE15-10-7980	15-610759	3 to 3.7	QBT3	3980	0.729 (J)	1.51	46	0.554	0.473 (U)	1490 (J-)	16 (J)	3.59	3.61 (U)	0.262 (U)	11500	7.91
PRS 15-008(b) Sample association	RE15-10-7981	15-610760	0 to 0.5	ALLH	6970	1.37 (U)	2.04	94.8	0.789	0.631 (U)	1580	8.33	8.87	11.1	0.335 (U)	12700	26.4
PRS 15-008(b) Sample association	RE15-10-7982	15-610760	3 to 3.5	QBT3	10200	0.811 (U)	3.38	171	1.26	0.593 (U)	3370	9.79	5	7.77	0.285 (U)	13000	11.5
PRS 15-008(b) Sample association	RE15-10-7983	15-610761	0 to 0.5	ALLH	6310	1.27 (UJ)	1.8	95.5	0.745	0.635 (U)	1730	15.5	4.77	8.2	0.315 (U)	11200	15.6
PRS 15-008(b) Sample association	RE15-10-7984	15-610761	3 to 3.7	QBT3	1650	1 (UJ)	0.923 (J)	30.1	0.18	0.502 (U)	411	2.65	4.67	2.08	0.236 (U)	7380	3.79

PRS 15-008(b) Sample association	RE15-10-7985	15-610762	0 to 0.4	ALLH	6150	1.43 (U)	2.44	195	1.05	0.297 (J)	9490	7.61	3.66	25.4	0.555	10000	42.8
PRS 15-008(b) Sample association	RE15-10-7987	15-610763	0 to 0.3	ALLH	5640 (J+)	1.37 (U)	1.85	91.7	0.777	0.425 (U)	2060	8.22	3.69	9.88	0.181 (J)	10200	18.9
PRS 15-008(b) Sample association	RE15-10-7988	15-610763	2.5 to 3.5	QBT3	4920 (J+)	1.1 (U)	1.23	52.2	0.379	0.247 (U)	1220	10.5	4.41	5.56	0.275 (U)	10700	5.85
PRS 15-008(b) Sample association	RE15-10-7989	15-610764	0 to 0.5	ALLH	7090 (J+)	1.22 (U)	2.05	88.7	0.627	0.402 (U)	2030	6.24	5.95	12.7	0.327 (U)	10200	19.2
PRS 15-008(b) Sample association	RE15-10-7990	15-610764	3 to 4	QBT3	1940 (J+)	1.08 (U)	0.839 (J)	30.5	0.283	0.21 (U)	543	5.27	4.04	4.57	0.252 (U)	8710	5.86
PRS 15-008(b) Sample association	RE15-10-7991	15-610765	0 to 0.5	ALLH	3450 (J+)	1.29 (U)	1.62	44.3	0.512	0.436 (U)	1170	3.69	12.9	6.89	0.338 (U)	11400	19.3
PRS 15-008(b) Sample association	RE15-10-7992	15-610765	3 to 4	QBT3	1830 (J+)	1.29 (U)	0.757 (J)	21.3	0.371	0.886 (U)	399	8.69	5.19	6.08	0.275 (U)	9330	5.55
PRS 15-008(b) Sample association	RE15-10-7993	15-610766	0 to 0.7	ALLH	3440	1.14 (U)	1.55	40.7 (J-)	0.71	0.145 (J)	1190 (J-)	9.21	1.7	7.37	0.312 (U)	9580	10.3 (J)
PRS 15-008(b) Sample association	RE15-10-7994	15-610766	1 to 2	ALLH	5970	1.07 (U)	1.57	52.3 (J-)	0.809	0.176 (J)	1620 (J-)	16.8	1.93	6.09	0.26 (U)	11700	8.34 (J)
PRS 15-008(b) Sample association	RE15-10-7995	15-610767	0 to 1	SED	3940	1.23 (U)	1.38	47 (J-)	0.761	0.284 (J)	1360 (J-)	5.27	1.7	15.6	0.0842 (J)	10300	15.2 (J)
PRS 15-008(b) Sample association	RE15-10-7996	15-610767	1 to 1.8	SED	3970	1.08 (U)	1.36	33.2 (J-)	0.624	0.151 (J)	1010 (J-)	8.55	1.37	7.33	0.279 (U)	9440	9.26 (J)
PRS 15-008(b) Sample association	RE15-10-7997	15-610768	0 to 0.7	SED	4110	1.24 (U)	1.44	41.3 (J-)	0.723	0.215 (J)	1060 (J-)	5.12	1.69	15.9	0.306 (U)	8390	11 (J)
PRS 15-008(b) Sample association	RE15-10-7998	15-610768	1 to 1.5	SED	5340	1.11 (U)	1.53	59.5 (J-)	0.671	0.212 (J)	1480 (J-)	9.86	2.19	6.45	0.259 (U)	11900	12.3 (J)
PRS 15-008(b) Sample association	RE15-10-7999	15-610769	0 to 0.7	ALLH	4810	1.03 (U)	1.51	61.2 (J-)	0.671	0.194 (J)	1800 (J-)	10.7	2.54	13	0.304 (U)	10200	20.5 (J)
PRS 15-008(b) Sample association	RE15-10-8000	15-610769	1 to 2	ALLH	9290	1.05 (U)	2.19	87.3 (J-)	0.914	0.202 (J)	1980 (J-)	11.1	3.62	6.54	0.274 (U)	13500	9.82 (J)
PRS 15-008(b) Sample association	RE15-10-8001	15-610770	0 to 0.8	SED	5450	0.789 (J-)	1.96	79.6 (J)	2.2	0.359 (J)	2110 (J)	31.6	2.38	43.8	0.328 (U)	9580	27.1
PRS 15-008(b) Sample association	RE15-10-8002	15-610770	1 to 2	QBT3	3390	1.02 (UJ)	0.812 (J)	30.1 (J)	0.693	0.512 (U)	1180 (J)	11.8	1.39	5.27	0.234 (U)	10800	9.51
PRS 15-008(b) Sample association	RE15-10-8003	15-610771	0 to 0.5	SED	4500	1.24 (UJ)	2.95	52.9 (J)	7.96	0.62 (U)	1620 (J)	10.6	2.61	20.9	0.313 (U)	12100	17.6
PRS 15-008(b) Sample association	RE15-10-8004	15-610771	1 to 2	ALLH	5810	1.12 (UJ)	1.56	46.5 (J)	0.861	0.562 (U)	1650 (J)	11.5	2.64	8.78	0.267 (U)	13000	8.67
PRS 15-008(b) Sample association	RE15-10-8005	15-610772	0 to 0.5	ALLH	5840	1.02 (J-)	1.79	74.3 (J)	3.81	0.824	2300 (J)	12	2.1	88.9	0.108 (J)	9270	57.3
PRS 15-008(b) Sample association	RE15-10-8006	15-610772	1 to 2	ALLH	6750	0.968 (UJ)	2.01	28.3 (J)	1.78	0.484 (U)	1480 (J)	12.2	0.947	7.55	0.264 (U)	10700	7.41
PRS 15-008(b) Sample association	RE15-10-8007	15-610773	0 to 0.8	SED	8970	1.28 (UJ)	2.91	113 (J)	1.24	0.278 (J)	3360 (J)	17.6	9.34	47.3	0.129 (J)	20300	48.4
PRS 15-008(b) Sample association	RE15-10-8008	15-610773	1 to 2	ALLH	3090	1.03 (UJ)	0.877 (J)	36.1 (J)	0.47	0.513 (U)	939 (J)	5.36 (J)	1.9	4	0.27 (U)	7770	5.77
PRS 15-008(b) Sample association	RE15-10-8009	15-610774	0 to 0.5	SED	3860	3.45 (J-)	1.5	86.2 (J)	7.37	0.422 (J)	2310 (J)	7.29 (J)	1.69	175	0.149 (J)	5330	97.7
PRS 15-008(b) Sample association	RE15-10-8010	15-610774	1 to 2	QBT3	5170	1 (UJ)	1.83	82 (J)	1.21	0.502 (U)	1550 (J)	7.4 (J)	2.09	17.2	0.274 (U)	9740	12.4
PRS 15-008(b) Sample association	RE15-10-8011	15-610775	0 to 0.5	SED	3720	1.02 (UJ)	1.32	51.4 (J)	1.7	0.511 (U)	1330 (J)	6.83 (J)	2.36	20.1	0.272	10500	16.7
PRS 15-008(b) Sample association	RE15-10-8012	15-610775	1 to 2	QBT3	2970	0.894 (UJ)	0.979	36.4 (J)	0.489	0.447 (U)	825 (J)	4.87 (J)	1.91	3.26 (U)	0.26 (U)	8430	6.01
PRS 15-008(b) Sample association	RE15-10-8013	15-610776	0 to 0.5	SED	4800 (J)	1.08 (UJ)	3.03	52.3	6.27	0.15 (J)	1250 (J+)	8.41 (J)	2.2	64.4 (J)	0.28 (U)	8570	23 (J)
PRS 15-008(b) Sample association	RE15-10-8014	15-610776	1 to 2	QBT3	4900 (J)	0.953 (UJ)	1.65	50.5	1.56	0.477 (U)	1690 (J+)	6.55 (J)	1.85	6.83 (J)	0.237 (U)	11500	9.61 (J)
PRS 15-008(b) Sample association	RE15-10-8016	15-610777	0.5 to 2	ALLH	4380 (J)	0.932 (UJ)	1.52	32.1	1.01	0.466 (U)	999 (J+)	14.8 (J)	1.49	5.17 (J)	0.246 (U)	10400	7.47 (J)
PRS 15-008(b) Sample association	RE15-10-8015	15-610777	0 to 0.5	SED	5220 (J)	1.46 (UJ)	1.92	64.5	1.68	0.949	1720 (J+)	8.58 (J)	2.76	91.4 (J)	0.399 (U)	10200	27.6 (J)
PRS 15-008(b) Sample association	RE15-10-8017	15-610778	0 to 0.5	SED	4340 (J)	0.56 (U)	1.58	54.2	4.41	0.193 (J)	1770 (J+)	6.31 (J)	2.43	50.2 (J)	0.308 (U)	8570	34.8 (J)
PRS 15-008(b) Sample association	RE15-10-8018	15-610778	1 to 2	SED	5180 (J)	1.06 (UJ)	2.79	50.8	1.35	0.528 (U)	1780 (J+)	6.49 (J)	2.67	8.72 (J)	0.292 (U)	11100	9.15 (J)
PRS 15-008(b) Sample association	RE15-10-8019	15-610779	0 to 0.5	ALLH	4160 (J)	1.06 (UJ)	1.12 (J)	37.8	0.845	0.233 (J)	1410 (J+)	7.79 (J)	1.57	16.3 (J)	0.277 (U)	8930	11.6 (J)
PRS 15-008(b) Sample association	RE15-10-8020	15-610779	1 to 2	QBT3	5900 (J)	1 (UJ)	1.23	31.3	0.8	0.501 (U)	1340 (J+)	7.2 (J)	1.26	5.2 (J)	0.266 (U)	11200	5.9 (J)
PRS 15-008(b) Sample association	RE15-10-8021	15-610780	0 to 0.5	ALLH	3980 (J)	1.1 (UJ)	0.826 (J)	37.2	0.496	0.401 (J)	1760 (J+)	9.09 (J)	1.28	16.3 (J)	0.27 (U)	9790	15.5 (J)
PRS 15-008(b) Sample association	RE15-10-8022	15-610780	1 to 2	QBT3	2510 (J)	0.944 (UJ)	0.955	8.66	0.429	0.472 (U)	279 (J+)	9.69 (J)	0.637	3.89 (J)	0.246 (U)	9130	6.68 (J)
PRS 15-008(b) Sample association	RE15-10-8023	15-610781	0 to 0.5	ALLH	7670 (J)	1.11 (UJ)	1.89	48.4	0.621	0.555 (U)	1720 (J+)	25.5 (J)	3.93	7.07 (J)	0.277 (U)	13900	10.5 (J)
PRS 15-008(b) Sample association	RE15-10-8024	15-610781	1 to 2	ALLH	8910 (J)	1.09 (UJ)	4.11	344	1.9	0.544 (U)	2080 (J+)	35.2 (J)	3.39	7.48 (J)	0.271 (U)	12300	9.89 (J)
PRS 15-008(b) Sample association	RE15-10-8025	15-610782	0 to 0.5	ALLH	12400 (J)	1.31 (UJ)	1.62	106	0.796	0.223 (J)	2360 (J+)	24.4 (J)	7.13	14.6 (J)	0.361 (U)	19700	19.9 (J)
PRS 15-008(b) Sample association	RE15-10-8026	15-610782	1 to 2	ALLH	10200 (J)	0.968 (UJ)	2.15	129	1.28	0.102 (J)	2260 (J+)	15.3 (J)	4.28	9.08 (J)	0.245 (U)	13400	9.88 (J)
PRS 15-008(b) Sample association	RE15-10-8027	15-610783	0 to 0.5	ALLH	8760 (J+)	1.21 (U)	1.52	101	0.766	0.411 (J)	1730	36.4	4.49	8.26	0.322 (U)	11900	11
PRS 15-008(b) Sample association	RE15-10-8028	15-610783	1 to 2	ALLH	6980 (J+)	1.04 (U)	1.77	62.7	0.805	0.521 (U)	1180	20.1	4.29	5.58	0.246 (U)	12600	8.69
PRS 15-008(b) Sample association	RE15-10-8029	15-610784	0 to 0.5	ALLH	5900 (J+)	1.25 (U)	0.978 (J)	42.6	0.464	0.626 (U)	896	11.2	3.17	5.63	0.308 (U)	8680	8.72
PRS 15-008(b) Sample association	RE15-10-8030	15-610784	1 to 2	ALLH	4060 (J+)	1.05 (U)	1.1	42	0.432	0.523 (U)	737	11.7	2.93	5.73	0.232 (U)	9770	8.38
PRS 15-008(b) Sample association	RE15-10-8031	15-610785	0 to 0.5	ALLH	4400 (J+)	1.16 (U)	1.64	57	0.618	0.12 (J)	986	15.7	3.79	9.65	0.285 (U)	11400	10.2
PRS 15-008(b) Sample association	RE15-10-8032	15-610785	1 to 2	ALLH	4780 (J+)	1.08 (U)	1.25	54.6	0.404	0.538 (U)	916	16.8	4.25	3.89	0.247 (U)	10400	7.33

PRS 15-008(g) Sample association	RE15-10-7332	15-610565	0 to 0.5	ALLH	2220	1.02 (U)	1.22	—	0.12	0.508 (U)	2370 (J)	14	2.14	34.6 (J)	0.243 (U)	6930	32.7
PRS 15-008(g) Sample association	RE15-10-7333	15-610565	2 to 2.5	ALLH	4990	1.06 (U)	1.2	—	0.614	0.528 (U)	4310 (J)	8.58	3.74	8.59 (J)	0.265 (U)	10900	8.21
PRS 15-008(g) Sample association	RE15-10-7334	15-610566	0 to 0.5	ALLH	3710	1.24 (U)	0.802 (J)	—	0.178	0.621 (U)	2960 (J)	25.4	2.74	41.3 (J)	0.297 (U)	10400	16.6
PRS 15-008(g) Sample association	RE15-10-7335	15-610566	2 to 4	QBT3	4520	1.27	1.24	—	0.558	0.568 (U)	2810 (J)	3.83	1.35	4.02 (J)	0.254 (U)	10200	6.9
PRS 15-008(g) Sample association	RE15-10-7336	15-610567	0 to 0.5	ALLH	1080	1.08 (U)	1.53	—	0.141	0.539 (U)	1400 (J)	6.75	0.966	7.13 (J)	0.259 (U)	3270	4.33
PRS 15-008(g) Sample association	RE15-10-7337	15-610567	2 to 3	ALLH	2710	1.01 (U)	1.55	—	0.189	0.505 (U)	6080 (J)	5.79	4.27	4.32 (J)	0.232 (U)	7410	3.67
PRS 15-008(g) Sample association	RE15-10-7338	15-610568	0 to 0.5	ALLH	3850	3.77	1.62	—	0.214	0.618 (U)	4520 (J)	14	14	21.7 (J)	0.298 (U)	9010	370
PRS 15-008(g) Sample association	RE15-10-7339	15-610568	2 to 3	QBT3	2980	1.15 (U)	1.36	—	0.48	0.573 (U)	928 (J)	2.97	0.958	3.15 (J)	0.272 (U)	7800	4.94
PRS 15-009(b) Sample association	RE15-10-8300	15-610829	0 to 0.3	SED	1050	1.44 (UJ)	0.731 (J)	18.7	0.415	0.721 (U)	664	5.82 (J)	0.635 (J)	2.3	0.36 (U)	5490	2.74
PRS 15-009(b) Sample association	RE15-10-8301	15-610829	1 to 2	QBT3	2870	0.787 (U)	1.5	43.9	0.469	0.506 (U)	808	8.69 (J)	1.49	3.54	0.242 (U)	8300	5.01
PRS 15-009(b) Sample association	RE15-10-8302	15-610830	7 to 8	FILL	3710	0.498 (U)	1.09	49.3	0.435	0.257 (J)	6640 (J+)	3.92	1.16	10.6	0.24 (U)	9380	12.5
PRS 15-009(b) Sample association	RE15-10-8303	15-610830	12 to 13	FILL	3180	1 (U)	0.763 (J)	47.2	0.361	0.191 (J)	2420 (J+)	2.86	1.22	4.79	0.226 (U)	9570	8.53
PRS 15-009(b) Sample association	RE15-10-8305	15-610831	0 to 1	SED	6000	1.34 (U)	2.47	134	0.631	0.757 (U)	3430	6.01 (J)	3.43	17.8	1.22	9710	28.2
PRS 15-009(b) Sample association	RE15-10-8304	15-610831	1 to 2	SED	3700	1.17 (UJ)	2.38	38.7	0.398	0.584 (U)	1310	8.76 (J)	1.44	4.07	0.291 (U)	8530	12.3
PRS 15-009(b) Sample association	RE15-10-8306	15-610832	0 to 1	SED	5590	1.12 (U)	2.86	91	0.595	0.621 (U)	1550	6.87 (J)	3.36	8.65	0.278 (U)	11000	12.1
PRS 15-009(b) Sample association	RE15-10-8307	15-610832	1 to 1.5	ALLH	5860	0.605 (U)	1.86	79.4	0.5	0.556 (U)	1940	7.81 (J)	2.62	7.32	0.292 (U)	10300	10.8
PRS 15-009(b) Sample association	RE15-10-8308	15-610833	0 to 0.5	SED	4950	0.571 (U)	1.46	69.5	0.53	0.644 (U)	1250	14 (J)	2.4	4.68	0.326 (U)	9480	7.74
PRS 15-009(b) Sample association	RE15-10-8309	15-610833	1 to 2	QBT3	5030	0.813 (U)	2.15	83.6	0.607	0.535 (U)	1320	19.1 (J)	2.3	5.52	0.274 (U)	9940	8.89
PRS 15-009(b) Sample association	RE15-10-8310	15-610834	15 to 16	FILL	3570	0.445 (U)	1.02 (J)	51	0.386	0.209 (J)	3000 (J+)	2.9	1.17	4.33	0.228 (U)	9810	12.9
PRS 15-009(b) Sample association	RE15-10-8311	15-610834	17 to 18	QBT3	2400	0.994 (U)	0.712 (J)	29.5	0.398	0.1 (J)	1000 (J+)	2.1	0.693	2.89 (U)	0.24 (U)	8020	6.59
PRS 15-009(b) Sample association	RE15-10-8312	15-610835	7 to 8	FILL	3580	0.8 (U)	1.03	49.2	0.452	0.188 (J)	2670 (J+)	3	1.09	4.21	0.253 (U)	9080	9.49
PRS 15-009(b) Sample association	RE15-10-8313	15-610835	12 to 13	FILL	2630	0.53 (U)	0.897 (J)	36.1	0.368	0.147 (J)	2100 (J+)	2.11	0.817	3.65	0.254 (U)	7910	8.81
PRS 15-009(b) Sample association	RE15-10-8314	15-610836	7 to 8	FILL	2580	0.981 (U)	0.942 (J)	35.9	0.447	0.112 (J)	954 (J+)	2.16	0.862	2.73 (U)	0.247 (U)	7670	5.38
PRS 15-009(b) Sample association	RE15-10-8315	15-610836	12 to 13	FILL	2330	0.972 (U)	1.15	37.2	0.526	0.14 (J)	1740 (J+)	2.1	0.768	4.04	0.249 (U)	8720	13.4
PRS 15-009(b) Sample association	RE15-10-8316	15-610837	47.5 to 50	QBT3	1040	1.01 (UJ)	0.258 (J)	10.4	0.228	0.505 (U)	265 (J+)	2.14	0.258 (J)	0.867 (J)	0.233 (U)	6070	2.84
PRS 15-009(b) Sample association	RE15-10-8317	15-610837	58.5 to 60	QBT3	1310	1.06 (UJ)	0.648 (J)	13.2	0.907	0.532 (U)	334 (J+)	2.37	0.387 (J)	1.2	0.257 (U)	7680	5.18
PRS 15-009(b) Sample association	RE15-10-8318	15-610837	68.5 to 70	QBT3	742	1.02 (UJ)	1.02 (U)	6.35	0.281	0.508 (U)	265 (J+)	1.71	0.285 (J)	1.06	0.23 (U)	6470	3.84
PRS 15-009(b) Sample association	RE15-10-8319	15-610837	78.5 to 80	QBT3	605	0.998 (UJ)	0.209 (J)	5.19	0.216	0.499 (U)	186 (J+)	1.78	0.271 (J)	0.932 (J)	0.253 (U)	6080	2.62
PRS 15-009(c) Sample association	RE15-98-0029	15-03458	0 to 0.5	ALLH	8300	10 (U)	2.9	56	0.58	0.51 (U)	1200	5.4	2.8	3.3	—	8800	7.8
PRS 15-009(c) Sample association	RE15-98-0030	15-03458	1 to 1.33	ALLH	6100	11 (U)	2.9	50	0.58	0.54 (U)	980	4.1	2.3	3.2	—	7800	7.2
PRS 15-009(c) Sample association	RE15-98-0031	15-03458	2 to 2.5	ALLH	6400	11 (U)	2.8	57	0.54 (U)	0.54 (U)	920	4.8	4	3.3	—	8200	8.9
PRS 15-009(c) Sample association	RE15-98-0032	15-03459	0 to 0.5	ALLH	6200	10 (U)	2.6	56	0.52 (U)	0.52 (U)	910	4.9	2.6	3.2	—	8300	7.7
PRS 15-009(c) Sample association	RE15-98-0033	15-03459	1.17 to 1.67	ALLH	4300	10 (U)	2.2	34	0.51 (U)	0.51 (U)	710	3.2	1.6	2.7	—	6400	6.4
PRS 15-009(c) Sample association	RE15-98-0034	15-03459	2.33 to 2.83	ALLH	5400	10 (U)	2.2	34	0.52 (U)	0.52 (U)	800	3.5	1.5	—	—	6800	6
PRS 15-009(c) Sample association	RE15-98-0035	15-03460	0 to 0.5	ALLH	3500	11 (U)	2.3	28	0.53 (U)	0.53 (U)	590	3.3	1.9	2.1	—	9500	5.8
PRS 15-009(c) Sample association	RE15-98-0036	15-03460	1.33 to 1.83	ALLH	3400	11 (U)	2.4	29	0.53 (U)	0.53 (U)	590	3.6	1.3	2.2	—	6700	6.3
PRS 15-009(c) Sample association	RE15-98-0037	15-03471	0 to 0.5	ALLH	2200	10 (U)	1.3	20	2.4	0.5 (U)	350	1.6	1.3	1.7	—	3900	4.8
PRS 15-009(c) Sample association	RE15-10-8336	15-610838	0 to 0.5	SED	2260 (J+)	0.637 (U)	0.787 (J)	30.9	0.366	0.566 (U)	587 (J-)	7.44	1.09 (J)	1.63 (J)	0.286 (U)	6070	8.57
PRS 15-009(c) Sample association	RE15-10-8337	15-610838	1 to 1.5	QBT3	2470 (J+)	0.751 (U)	1.45	39.7	0.456	0.541 (U)	561 (J-)	23.6	1.07 (J)	1.76 (J)	0.252 (U)	6740	7.26
PRS 15-009(c) Sample association	RE15-10-8338	15-610839	0 to 0.8	QBT3	2500 (J+)	0.69 (U)	1.22	41.6	0.52	0.591 (U)	608 (J-)	14.5	1.57 (J)	2.34 (J)	0.288 (U)	8820	7.32
PRS 15-009(c) Sample association	RE15-10-8339	15-610839	1 to 2.5	QBT3	1980 (J+)	0.43 (U)	0.853 (J)	29.6	0.435	0.492 (U)	558 (J-)	9.12	1.34 (J)	2.18 (J)	0.237 (U)	6760	5.73
PRS 15-009(c) Sample association	RE15-10-8340	15-610840	0 to 1	SED	3950 (J+)	1.27 (U)	1.07 (J)	41.8 (J+)	1.12	0.255 (J)	1150 (J+)	15.7	0.732	3.58	0.33 (U)	7080	6.2 (J)
PRS 15-009(c) Sample association	RE15-10-8341	15-610840	1 to 1.5	QBT3	3460 (J+)	1.04 (U)	0.889 (J)	21 (J+)	0.981	0.218 (J)	434 (J+)	14.2	0.614	2.59	0.27 (U)	7330	5.5 (J)
PRS 15-009(c) Sample association	RE15-10-8342	15-610841	3 to 3.5	FILL	3070	1.05 (UJ)	1.42	—	0.605	0.194 (J)	3780	3.03	1.28	6.69	0.259 (U)	8920	8.09
PRS 15-009(c) Sample association	RE15-10-8343	15-610841	8 to 8.5	FILL	2880	1 (UJ)	0.996 (J)	—	0.534	0.145 (J)	1730	2.34	0.983	3.96	0.237 (U)	9290	9.53
PRS 15-009(c) Sample association	RE15-10-8345	15-610842	2 to 2.5	FILL	4370	1.04 (UJ)	1.92	—	0.579	0.304 (J)	6730	4.8	2.03	8.65	1.69	11700	20.9
PRS 15-009(c) Sample association	RE15-10-8344	15-610842	7 to 7.5	FILL	4180	1.01 (UJ)	1.43	—	0.547	0.161 (J)	1350	3.97	1.81	5.15	0.264 (U)	11000	11.2

PRS 15-009(c) Sample association	RE15-10-8346	15-610843	10.5 to 11	FILL	3990	1.08 (UJ)	1.7	—	0.647	0.247 (J)	5300	5.15	1.51	7.24	0.269 (U)	10300	130
PRS 15-009(c) Sample association	RE15-10-8347	15-610843	15.5 to 16	QBT3	1780	0.998 (UJ)	0.639 (J)	—	0.458	0.124 (J)	500	1.2	0.546	2.31 (U)	0.23 (U)	7100	4.78
PRS 15-009(c) Sample association	RE15-10-8348	15-610844	3 to 4	FILL	4090	0.386 (J)	1.26	55	0.602	0.164 (J)	1290 (J+)	4.71	1.88	5.69	0.245 (U)	10600	8.14
PRS 15-009(c) Sample association	RE15-10-8349	15-610844	8 to 9	QBT3	2770	0.602 (J)	0.734 (J)	32.9	0.663	0.134 (J)	1070 (J+)	1.84	1.01	4.12	0.269 (U)	9510	6.41
PRS 15-009(c) Sample association	RE15-10-8350	15-610845	0 to 0.7	QBT3	1800 (J+)	1.2 (U)	1.21 (J)	36.9	0.731	0.599 (U)	897 (J-)	12.8	1.55 (J)	3.45 (J)	0.295 (U)	6040	4.76
PRS 15-009(c) Sample association	RE15-10-8351	15-610845	1 to 1.2	QBT3	2880 (J+)	0.677 (U)	1.39	45.8	0.723	0.55 (U)	785 (J-)	13.8	1.59 (J)	3.47 (J)	0.283 (U)	7720	7.09
PRS 15-009(c) Sample association	RE15-10-8352	15-610846	0 to 0.5	QBT3	1350 (J+)	1.06 (U)	0.679 (J)	18.8	0.309	0.597 (U)	507 (J-)	13.6	0.95 (J)	2.85 (J)	0.29 (U)	7230	3.84
PRS 15-009(c) Sample association	RE15-10-8353	15-610846	1 to 2	QBT3	2740 (J+)	0.577 (U)	1.3	39.2	0.633	0.543 (U)	933 (J-)	7.3	1.53 (J)	3.07 (J)	0.276 (U)	8010	6.66
PRS 15-009(c) Sample association	RE15-10-8354	15-610847	0 to 0.7	SED	1770 (J+)	0.827 (U)	1.07 (J)	28	0.501	0.581 (U)	869 (J-)	3.69	1.35 (J)	4.52 (J)	0.314 (U)	5820	7.2
PRS 15-009(c) Sample association	RE15-10-8355	15-610847	1 to 2	QBT3	2060 (J+)	0.852 (U)	0.978 (J)	30	0.533	0.521 (U)	421 (J-)	6.66	0.755 (J)	1.58 (J)	0.26 (U)	9260	7.97
PRS 15-009(c) Sample association	RE15-10-8356	15-610848	0 to 0.8	ALLH	2370 (J+)	0.534 (U)	1.07	35.3	0.465	0.574 (U)	753 (J-)	5.64	2.58 (J)	2.83 (J)	0.293 (U)	9570	6.7
PRS 15-009(c) Sample association	RE15-10-8357	15-610848	1 to 2	QBT3	2450 (J+)	0.763 (U)	0.972	38	0.477	0.521 (U)	877 (J-)	10.5	1.6 (J)	3.23 (J)	0.256 (U)	8780	6.2
PRS 15-009(c) Sample association	RE15-10-8358	15-610849	0 to 0.8	SED	2480	1.18 (U)	1.01 (J)	40.8	0.407	0.59 (U)	645 (J+)	5.75	1.98	5.77	0.299 (U)	5450	6.69
PRS 15-009(c) Sample association	RE15-10-8359	15-610849	1 to 2	ALLH	2750	1.03 (U)	1.1	41.4	0.466	0.513 (U)	824 (J+)	5.31	1.67	4.22	0.244 (U)	6760	10.9
PRS 15-009(c) Sample association	RE15-10-8360	15-610850	0 to 0.9	SED	1420	1.27 (U)	0.81 (J)	23.1	0.324	0.635 (U)	461 (J+)	21.9	1.2	2.72	0.344 (U)	6590	5.18
PRS 15-009(c) Sample association	RE15-10-8361	15-610850	1 to 2	SED	2880	1.17 (U)	1.16	44.5	0.435	0.587 (U)	775 (J+)	12.6	1.66	4.39	0.268 (U)	8630	11.3
PRS 15-009(c) Sample association	RE15-10-8362	15-610851	0 to 0.7	SED	1600	1.26 (U)	1.16 (J)	22.1	0.319	0.63 (U)	448 (J+)	4.55	1.04	2.25	0.327 (U)	5230	5.77
PRS 15-009(c) Sample association	RE15-10-8363	15-610851	1 to 2	ALLH	3000 (J+)	1.19 (U)	1.05 (J)	36.2	0.683	0.297 (J)	741	17.3	1.22	4.39	0.118 (U)	6820	6.81
PRS 15-009(c) Sample association	RE15-10-8364	15-610852	0 to 0.5	SED	3440 (J+)	1.25 (U)	1.14 (J)	37.2 (J+)	0.513	0.28 (J)	981 (J+)	8.08	2.33	3.74	0.307 (U)	6990	9.42 (J)
PRS 15-009(c) Sample association	RE15-10-8365	15-610852	1 to 1.7	SED	1780 (J+)	1.19 (U)	1.22	33.5 (J+)	0.528	0.209 (J)	746 (J+)	12.6	1.21	5.87	0.259 (U)	6350	6.32 (J)
PRS 15-009(c) Sample association	RE15-10-8366	15-610853	0 to 0.5	SED	1970 (J+)	1.16 (U)	1.01 (J)	31.6 (J+)	0.431	0.237 (J)	549 (J+)	1.73	1.41	3.57	0.272 (U)	6850	7.19 (J)
PRS 15-009(c) Sample association	RE15-10-8367	15-610853	1 to 1.5	SED	1500 (J+)	1.24 (U)	0.55 (J)	30.9 (J+)	0.269	0.195 (J)	515 (J+)	2.66	0.616 (J)	3.66	0.298 (U)	5070	6.28 (J)
PRS 15-009(c) Sample association	RE15-10-8368	15-610854	0 to 0.5	SED	3430 (J+)	1.28 (U)	1.46	42.6 (J+)	0.613	0.324 (J)	1380 (J+)	13	1.78	5.35	0.325 (U)	8320	8.68 (J)
PRS 15-009(h) Sample association	RE15-10-8386	15-610855	6 to 7.5	FILL	4680	1.04 (UJ)	1.05	59.6	0.481	0.518 (U)	1980 (J+)	19.1	1.88	3.74	0.236 (U)	10800	3.93
PRS 15-009(h) Sample association	RE15-10-8387	15-610855	8.4 to 9.2	QBT3	3290	1.03 (UJ)	0.535 (J)	68.8	0.306	0.515 (U)	1380 (J+)	32	1.93	3.63	0.233 (U)	10100	2.49
PRS 15-009(h) Sample association	RE15-10-8388	15-610856	6 to 7	FILL	8730 (J+)	1 (U)	1.78	105	1	0.5 (U)	2150	9.26	3.48	6.67	0.237 (U)	14200	7.07
PRS 15-009(h) Sample association	RE15-10-8389	15-610856	11 to 13	FILL	15400 (J+)	1 (U)	1.92	205	1.12	0.207 (J)	3130	13.9	5.98	8.24	0.26 (U)	16900	12.4
PRS 15-009(h) Sample association	RE15-10-8390	15-610857	6.5 to 8	FILL	16500 (J+)	1.06 (U)	1.95	143	0.995	0.127 (J)	1520	14.6	3.49	11	0.214 (J)	15200	12.3
PRS 15-009(h) Sample association	RE15-10-8391	15-610857	11.5 to 13	FILL	19200 (J+)	1.12 (U)	2.15	260	1.17	0.181 (J)	1620	16.2	5.26	12.1	0.26 (U)	16500	12.9
PRS 15-009(h) Sample association	RE15-10-8392	15-610858	5.7 to 6.5	FILL	11300 (J+)	1.1 (U)	1.56	108	0.95	0.551 (U)	1720	19.8	2.31	5.39	0.287 (U)	13100	4.43
PRS 15-009(h) Sample association	RE15-10-8393	15-610858	6.6 to 8.1	QBT3	5620	1.11 (UJ)	1.18 (J)	70.9	0.59	0.553 (U)	1900	36.1	2.55	3.4	0.307 (U)	12900	3.35
PRS 15-009(h) Sample association	RE15-10-8394	15-610859	4.8 to 6	ALLH	6720	1.09 (UJ)	1.34	110	0.824	0.546 (U)	1440	14.6	2.92	4.81	0.273 (U)	13400	4.44
PRS 15-009(h) Sample association	RE15-10-8395	15-610859	6 to 7.1	QBT3	3400	0.992 (UJ)	0.661 (J)	39.1	0.538	0.496 (U)	1040	18.6	1.85	2.51	0.256 (U)	12000	2.64
PRS 15-009(h) Sample association	RE15-10-8396	15-610860	4.8 to 7	FILL	11000	1.03 (UJ)	1.82	164	1.03	0.514 (U)	3100	9.99	4.89	6.26	0.274 (U)	13200	9.21
PRS 15-009(h) Sample association	RE15-10-8397	15-610860	7 to 7.3	FILL	9050	0.994 (UJ)	2	121	1.08	0.497 (U)	45400	12.1	3.61	6.23	0.261 (U)	12700	7.15
PRS 15-009(h) Sample association	RE15-10-8398	15-610861	4.8 to 6.1	FILL	11500	1.08 (UJ)	1.86	148	1	0.538 (U)	3190	12.7	5.75	6.65	0.271 (U)	16200	9.24
PRS 15-009(h) Sample association	RE15-10-8399	15-610861	6.1 to 7	FILL	11000	1.1 (UJ)	1.36	110	0.748	0.55 (U)	3130	23	3.78	5.76	0.253 (U)	15100	7.03
PRS 15-010(b) Sample association	RE15-10-8410	15-610863	0 to 0.5	SED	5010	1.33 (U)	2.08	143 (J-)	0.576	0.666 (U)	4480	7.1	3.33	8.47	0.81	8950	19.4
PRS 15-010(b) Sample association	RE15-10-8411	15-610863	1 to 2	SED	3970	1.16 (U)	1.2	58.1 (J-)	0.311	0.581 (U)	1950	18.2	2.11	3.04	0.284 (U)	8350	7.2
PRS 15-010(b) Sample association	RE15-10-8412	15-610864	0 to 0.5	SED	4220	1.07 (U)	1.51	51.5 (J-)	0.407	0.534 (U)	1140	5.93	2.21	7.67	0.242 (U)	10800	11.5
PRS 15-010(b) Sample association	RE15-10-8413	15-610864	1 to 2	SED	5680	1.12 (U)	1.8	71.8 (J-)	0.676	0.559 (U)	1480	7.45	2.01	8.9	0.25 (U)	11200	14.4
PRS 15-010(b) Sample association	RE15-10-8416	15-610866	0 to 0.7	SED	4890	1.07 (U)	1.76	71.3 (J-)	0.689	0.536 (U)	1450	6.58	2.53	4.03	0.261 (U)	12100	8.59
PRS 15-010(b) Sample association	RE15-10-8417	15-610866	1 to 1.7	SED	3540	1.06 (U)	1.72	31 (J-)	0.739	0.528 (U)	683	7.59	2.29	3.21	0.245 (U)	19100	6.59
PRS 15-010(b) Sample association	RE15-10-8418	15-610867	0 to 0.8	SED	3780	1.07 (U)	1.94	47.6 (J-)	0.457	0.537 (U)	1060	8.25	1.98	3.89	0.271 (UJ)	14600	8.87
PRS 15-010(b) Sample association	RE15-10-8420	15-610868	0 to 0.6	SED	4430	1.35 (U)	1.54	52.9 (J-)	0.747	0.673 (U)	1420	12.8	2.04	7.54	0.331 (UJ)	11300	9.58
PRS 15-010(b) Sample association	RE15-10-8421	15-610868	1 to 2	SED	3740	1.1 (U)	2.09	35.9 (J-)	0.48	0.552 (U)	1020	9.14	1.77	3.04	0.28 (UJ)	18900	9.21
PRS 15-010(b) Sample association	RE15-10-8422	15-610869	0 to 0.6	SED	5620	1.09 (U)	1.87	82.7 (J-)	0.679	0.543 (U)	1970	6.4	2.66	16.9	0.265 (U)	10600	16

PRS 15-010(b) Sample association	RE15-10-8423	15-610869	1 to 2	SED	6290	1.09 (U)	2.24	100 (J-)	0.789	0.547 (U)	2300	7.95	2.66	11.7	0.27 (U)	12400	17.3
PRS 15-010(b) Sample association	RE15-10-8424	15-610870	0 to 0.7	SED	3630	1.1 (U)	1.26	35.8 (J-)	0.522	0.549 (U)	1060	10.7	1.47	4.63	0.121 (J-)	11000	5.23
PRS 15-010(b) Sample association	RE15-10-8425	15-610870	1 to 1.6	SED	3570	1.07 (U)	1.45	30.1 (J-)	0.558	0.534 (U)	818	10.4	1.03	3.02	0.268 (U)	9250	3.75
PRS 15-010(b) Sample association	RE15-10-8426	15-610871	0 to 0.5	SED	3300 (J+)	1.13 (U)	2.21	41.3	0.762	0.566 (U)	1080	3.87 (J)	1.16	3.75	0.248 (U)	8680	5.91 (J)
PRS 15-010(b) Sample association	RE15-10-8427	15-610871	1 to 2	QBT3	3020 (J+)	1.01 (U)	2.21	27.7	0.759	0.505 (U)	830	6.48 (J)	1.32	2.49	0.24 (U)	8860	5.4 (J)
PRS 15-010(b) Sample association	RE15-10-8428	15-610872	0 to 0.5	SED	4800 (J+)	1.18 (U)	1.92	89.1	0.78	0.589 (U)	2330	5.91 (J)	2.25	6.39	0.3	8980	13.1 (J)
PRS 15-010(b) Sample association	RE15-10-8429	15-610872	1 to 1.8	QBT3	2750 (J+)	1.02 (U)	1.68	26.7	0.66	0.512 (U)	608	11.6 (J)	0.66	1.86	0.249 (U)	11100	4.37 (J)
PRS 15-014(h) Sample association	RE15-10-7160	15-610501	0 to 0.5	SED	10800	1.25 (U)	2.05	180	0.767 (J-)	0.307 (J)	2360 (J-)	15.1 (J-)	4.96	26.6	0.269 (U)	13000	25.9
PRS 15-014(h) Sample association	RE15-10-7161	15-610501	1 to 2.2	SED	11700	1.07 (U)	2.37	152	0.757 (J-)	0.115 (J)	2110 (J-)	20.7 (J-)	4.92	15	0.281 (U)	13200	13
PRS 15-014(h) Sample association	RE15-10-7162	15-610502	0 to 0.5	SED	10200	0.439 (U)	2.45	138	0.631 (J-)	0.463 (J)	2140 (J-)	25.3 (J-)	6.1	24.3	0.205 (J)	15300	25.1
PRS 15-014(h) Sample association	RE15-10-7163	15-610502	1 to 2.5	QBT3	5720	0.357 (U)	1.18	55.4	0.557 (J-)	0.133 (J)	1390 (J-)	48.9 (J-)	2.73	7.8	0.262 (U)	12300	12.2
PRS 15-014(h) Sample association	RE15-10-7164	15-610503	2 to 3.9	ALLH	10300	1.2 (U)	1.9	145	0.851	0.597 (U)	5800	13.6	5.01	7.25	0.292 (U)	14100	14.5
PRS 15-014(h) Sample association	RE15-10-7165	15-610503	7 to 8.8	ALLH	13100	1.11 (U)	2.06	174	0.983	0.592 (U)	2690	12.8	5.79	7.67	0.298 (U)	16300	16.3
PRS 15-014(h) Sample association	RE15-10-7166	15-610504	0 to 1	SED	11900	1.57 (U)	1.65	180	0.829	0.715 (U)	3110	29.6	4.15	6.47	0.139 (J)	11200	13.2 (J)
PRS 15-014(h) Sample association	RE15-10-7167	15-610504	1 to 2.2	SED	11100	0.963 (U)	2.12	163	0.835	0.641 (U)	2340	12.4	6.69	8.14	0.32 (U)	14800	13.4 (J)
PRS 15-014(h) Sample association	RE15-10-7168	15-610505	0 to 0.5	SED	10700	0.987 (U)	1.52	195	0.998	0.616 (U)	3690	13.1	4.87	8.28	0.305	11600	15.9
PRS 15-014(h) Sample association	RE15-10-7169	15-610505	1 to 2.1	QBT3	10700	0.817 (U)	1.7	193	0.932	0.547 (U)	2130	11.2	8.24	7.2	0.275 (U)	14200	14.7
PRS 15-014(h) Sample association	RE15-10-7170	15-610506	0 to 0.7	SED	9280	0.836 (U)	1.66	169	0.785	0.64 (U)	2980	10.5	4.89	11.9	0.313 (U)	11700	22.4
PRS 15-014(h) Sample association	RE15-10-7171	15-610506	1 to 2.1	ALLH	9080	0.83 (U)	1.68	114	0.74	0.519 (U)	1790	12.6	6.39	7.09	0.234 (U)	16200	12.1 (J)
PRS 15-014(h) Sample association	RE15-10-7172	15-610507	0 to 0.7	ALLH	10500	0.653 (U)	1.96	155	0.898 (J-)	0.174 (J)	2410 (J-)	10.8 (J-)	4.22	7.6	0.316	11000	17.2
PRS 15-014(h) Sample association	RE15-10-7173	15-610507	1 to 2.6	ALLH	16100	1.1 (U)	2.08	178	1 (J-)	0.552 (U)	2370 (J-)	16.3 (J-)	4.28	8.19	0.277 (U)	13100	11.9
PRS 15-014(h) Sample association	RE15-10-7174	15-610508	0 to 1	ALLH	10800	1.18 (U)	1.75	167	0.708 (J-)	0.157 (J)	2650 (J-)	15.7 (J-)	5.24	10.4	0.291 (J)	11900	19.4
PRS 15-014(h) Sample association	RE15-10-7175	15-610508	1 to 2	QBT3	9680	1.1 (U)	1.89	106	0.649 (J-)	0.55 (U)	1500 (J-)	24.2 (J-)	5.91	6.2	0.265 (U)	14300	12.5
PRS 15-014(h) Sample association	RE15-10-7176	15-610509	0 to 0.6	ALLH	8280	1 (U)	1.48	127	0.75	0.524 (U)	2160	8.14	3.59	6.1	0.396	9630	13.3 (J)
PRS 15-014(h) Sample association	RE15-10-7177	15-610509	1 to 2	ALLH	9050	1.12 (U)	1.15	177	0.771	0.538 (U)	2350	10.1	3.84	5.45	0.093 (J)	10800	10.1 (J)
PRS 15-014(h) Sample association	RE15-10-7178	15-610510	0 to 0.5	SED	8000	0.737 (U)	1.74	138	0.749	0.613 (U)	2240	12.2	4.74	10.4	0.188 (J)	10900	22.9
PRS 15-014(h) Sample association	RE15-10-7179	15-610510	1 to 2	ALLH	8950	0.848 (U)	1.58	139	0.804	0.6 (U)	2080	23.2	4.89	12.4	0.101 (J)	11700	22.8
PRS 15-014(h) Sample association	RE15-10-7180	15-610511	0 to 1	SED	8390	0.912 (U)	1.52	119	0.659	0.576 (U)	1970	10.6	3.77	6.52	0.277 (U)	10600	11.6 (J)
PRS 15-014(h) Sample association	RE15-10-7181	15-610511	1 to 1.9	ALLH	8220	0.799 (U)	1.85	124	0.737	0.563 (U)	2020	21.6	5.21	9.58	0.268 (U)	13000	11.8 (J)
PRS 15-014(h) Sample association	RE15-10-7182	15-610512	0 to 0.6	SED	9000	1.17 (U)	1.59	144	0.868	0.583 (U)	2470	7.31	3.89	6.04	0.631	9210	12.1 (J)
PRS 15-014(h) Sample association	RE15-10-7183	15-610512	1 to 1.8	QBT3	6140	1.18 (U)	1.44	89.4	0.573	0.562 (U)	1640	21.1	3.19	3.87	0.207 (J)	11500	8.56 (J)
PRS 15-014(h) Sample association	RE15-10-7184	15-610513	0 to 0.7	SED	9860	0.575 (U)	2.03	150	0.922	0.594 (U)	2380	15.3	5.06	9.78	0.296 (U)	12200	30.5
PRS 15-014(h) Sample association	RE15-10-7185	15-610513	1 to 2	ALLH	10400	0.967 (U)	1.54	132	0.854	0.545 (U)	2050	15.5	5.17	6.78	0.251 (U)	14100	13.6 (J)
PRS 15-014(h) Sample association	RE15-10-7186	15-610514	0 to 0.5	SED	3840	1.13 (U)	1.59 (U)	49.1	0.669	0.564 (U)	839	4.45	2.41	3.71	0.274 (U)	7860	8.89
PRS 15-014(h) Sample association	RE15-10-7187	15-610514	1 to 2	ALLH	9140	1.09 (U)	2.19 (U)	118	0.983	0.543 (U)	2130	9.46	3.64	9.02	0.27 (U)	10700	16.6
PRS 15-014(h) Sample association	RE15-10-7188	15-610515	0 to 0.8	SED	12500	1.09 (U)	2.81 (U)	162	1.31	0.544 (U)	2740	12.5	5.21	10.2	0.13 (J)	15000	32.4
PRS 15-014(h) Sample association	RE15-10-7189	15-610515	1 to 2.2	ALLH	11100	1.09 (U)	2.6 (U)	130	1.26	0.546 (U)	2140	11.6	4.31	6.85	0.275 (U)	14600	12.2
PRS 15-014(h) Sample association	RE15-10-7190	15-610516	0 to 0.7	SED	9790	1.33 (U)	2.28 (U)	149	1.14	0.666 (U)	3580	22.2	4.82	10	0.233 (J)	12200	15.1
PRS 15-014(h) Sample association	RE15-10-7191	15-610516	1 to 2	SED	8220	1.12 (U)	1.93 (U)	55.4	1.33	0.559 (U)	2030	7.81	1.88	6.22	0.287 (U)	11800	7.35
PRS 15-014(h) Sample association	RE15-10-7192	15-610517	0 to 0.5	SED	8370	1.43 (U)	2.92 (U)	116	1.19	0.716 (U)	1890	9.66	3.65	7.3	0.381 (U)	8920	16
PRS 15-014(h) Sample association	RE15-10-7193	15-610517	1 to 2	SED	6280	0.608 (U)	3.18 (U)	87.8	1.08	0.59 (U)	1380	27.9	4.18	5.84	0.281 (U)	13700	13
PRS 15-014(h) Sample association	RE15-10-7194	15-610518	0 to 1	SED	6410	1.2 (U)	1.87 (U)	91.1	0.781	0.598 (U)	1450	8.92	3.26	5.36	0.309 (U)	10700	11.3
PRS 15-014(h) Sample association	RE15-10-7195	15-610518	1 to 2	ALLH	8820	1.07 (U)	2.44 (U)	86.2	1.17	0.533 (U)	1800	14	3.51	5.56	0.248 (U)	15100	8.26
PRS 15-014(h) Sample association	RE15-10-7196	15-610519	0 to 0.5	SED	6100	1.2 (U)	1.67 (U)	116	0.606	0.598 (U)	1440	9.3	6.83	5.54	0.132 (J)	11800	15.7
PRS 15-014(h) Sample association	RE15-10-7197	15-610519	1 to 2	SED	4240	0.939 (U)	1.45 (U)	46.5	0.77	0.581 (U)	1050	43.3	1.79	3.72	0.266 (U)	9940	6.65
PRS 15-014(h) Sample association	RE15-10-7198	15-610520	0 to 0.5	SED	5520	1.28 (U)	1.95	140	0.55	0.141 (J)	3660 (J)	8.3	4.5	8.87	2.84 (J-)	10400	27.4
PRS 15-014(h) Sample association	RE15-10-7199	15-610520	1 to 2.4	ALLH	9930	1.09 (U)	2.67	140	1.3	0.545 (U)	2020 (J)	21.4	4.13	7.04	0.251 (UJ)	14400	12.7

PRS 15-014(h) Sample association	RE15-10-7200	15-610521	0 to 0.5	SED	9290	1.32 (U)	2.01	157	0.849	0.658 (U)	2110 (J)	16.1	5.69	6.13	0.266 (J-)	12800	14.4
PRS 15-014(h) Sample association	RE15-10-7201	15-610521	2 to 3.7	ALLH	9510	1.05 (U)	2.53	169	0.983	0.523 (U)	1740 (J)	11.3	5.84	5.66	0.092 (J-)	14300	12.8
PRS 15-014(h) Sample association	RE15-10-7202	15-610522	2 to 3.9	ALLH	10700	1.17 (U)	2.35	171	0.91	0.586 (U)	2170 (J)	12	6.26	7.74	0.264 (UJ)	14800	14
PRS 15-014(h) Sample association	RE15-10-7203	15-610522	6 to 6.7	ALLH	8380	1.2 (U)	1.4	93.3	0.538	0.601 (U)	3560 (J)	15.6	1.34	3.72	0.304 (UJ)	12900	7.27
PRS 15-014(h) Sample association	RE15-10-7204	15-610523	0 to 0.5	SED	8860	1.18 (U)	2.84	137	0.887	0.928	2800 (J)	15.2	5.1	34.5	0.297 (J-)	12200	48.9
PRS 15-014(h) Sample association	RE15-10-7205	15-610523	1 to 1.5	ALLH	9310	1.1 (U)	4.06	135	0.902	1.54	1920 (J)	26.3	6.12	53.6	3.25 (J-)	13100	80.2
PRS 15-014(h) Sample association	RE15-10-7206	15-610524	0 to 0.7	SED	11800	1.25 (U)	4.45	150	1.31	0.625 (U)	2300 (J)	9.87	4.41	7.39	0.312 (UJ)	13800	12.7
PRS 15-014(h) Sample association	RE15-10-7207	15-610524	1 to 2.1	QBT3	9540	1.04 (U)	2.5	111	0.991	0.519 (U)	2140 (J)	10.3	2.94	5.45	0.272 (UJ)	13800	9.03
PRS 15-014(h) Sample association	RE15-10-7208	15-610525	0 to 0.5	SED	6710	1.27 (U)	2.55	105	0.826	0.637 (U)	1870 (J)	8.12	4.13	13.8	0.295 (UJ)	11500	11.5
PRS 15-014(h) Sample association	RE15-10-7209	15-610525	1 to 1.4	SED	12800	1.14 (U)	3.2	158	1.08	0.568 (U)	2270 (J)	36	6.07	8.97	0.274 (UJ)	16900	13.9
PRS 15-014(h) Sample association	RE15-10-7210	15-610526	2 to 2.9	ALLH	8670	1.11 (U)	2.33	111	0.857	0.554 (U)	8490 (J)	14.7	9.41	8.73	0.274 (UJ)	13700	10.9
PRS 15-014(h) Sample association	RE15-10-7211	15-610526	6 to 6.7	QBT3	4230	1.19 (U)	0.527 (J)	49.4	0.277	0.595 (U)	2240 (J)	12.4	1.07	2.2	0.294 (UJ)	10200	6.83

Magnesium	Manganese	Mercury	Nickel	Nitrate	Perchlorate	Potassium	Selenium	Silver	Sodium	Thallium	Uranium	Vanadium	Zinc
4610	671	0.1	15.4	—	—	3460	1.52	1	915	0.73	1.82	39.6	48.8
2370	543	0.1	9.38	—	—	2690	0.3	1	1470	0.73	2.22	19.7	60.2
1690	482	0.1	6.58	—	—	3500	0.3	1	2770	1.1	2.4	17	63.5
780	408	0.1	2	—	—	6670	0.3	1	6330	1.24	6.22	4.48	84.6
739	189	0.1	2	—	—	2390	0.3	1	4350	1.22	0.72	4.59	40
2260	415 (J)	0.0138 (U)	8.56	—	0.00256 (U)	2260	1.25 (U)	0.414 (J)	66.3 (U)	0.202 (U)	2.05	28.3	29.3
2370	426 (J)	0.00463 (J)	7.56	—	0.00227 (U)	2040	1.13 (U)	0.337 (J)	78.5 (U)	0.184 (U)	1.59	29.8	29.6
1820	345 (J)	0.0129 (U)	7.03	—	0.000656 (J)	1570	1.17 (U)	0.396 (J)	82.9 (U)	0.165 (U)	3.94	24	26.3
2400	2150 (J)	0.0124 (U)	11.9	—	0.00237 (U)	2490	1.16 (U)	0.725	99.3	0.303 (U)	1.37	35.4	31.4
1950	802 (J)	0.00961 (J)	8.71	—	0.00232 (U)	2030	1.14 (U)	0.503 (J)	61.2 (U)	0.187 (U)	1.84	28.5	26.1
2110	384 (J)	0.0129 (U)	8.67	—	0.00223 (U)	2050	1.11 (U)	0.335 (J)	67.1 (U)	0.21 (U)	1.27	26.3	26.2
1650	414 (J)	0.0135 (U)	7.68	—	0.00231 (U)	1560	1.11 (U)	0.436 (J)	104	0.133 (U)	2.79	23.2	21.1 (J)
2260	493 (J)	0.0305	7.34	—	0.00216 (U)	2020	1.08 (U)	0.337 (J)	95.9	0.183 (U)	1.02	29.4	27.4
1970	460 (J)	0.00552 (J)	7.45	—	0.00227 (U)	1940	1.11 (U)	0.348 (J)	83.6	0.194 (U)	1.49	28.4	25.8
2290	466 (J)	0.0119 (U)	9.65	—	0.0022 (U)	2200	1.09 (U)	0.476 (J)	92.8	0.206 (U)	1.31	29.1	26.4
2090 (J+)	519	0.0152	7.76	—	0.00238 (U)	1990 (J+)	1.15 (U)	0.58 (U)	63.1	0.162 (J)	1.75	33.4	33.9
2550 (J+)	471	0.0151	9.07	—	0.00225 (U)	2080 (J+)	1.11 (U)	0.54 (U)	79.2	0.203 (J)	0.962	34	32.4
1900 (J+)	451	0.0149	10.9	—	0.00253 (U)	2130 (J+)	1.19 (U)	0.61 (U)	56.9	0.196 (J)	2.07	30.3	28.6
2190 (J+)	492	0.015	9.05	—	0.0022 (U)	2070 (J+)	1.09 (U)	0.525 (U)	77.8	0.247	1.36	32.2	31.1
1890 (J+)	485	0.0154	9.27	—	0.00232 (U)	2260 (J+)	1.14 (U)	0.572 (U)	52.1	0.199 (J)	1.84	29.8	28.6
2030 (J+)	457	0.0158	7.88	—	0.000672 (J)	1710 (J+)	1.07 (U)	0.538 (U)	102	0.187 (J)	1.23	30.8	28.9
1980 (J+)	468 (J+)	0.0113 (J)	8.54	—	0.00232 (U)	2110 (J+)	1.11 (U)	0.193 (J)	137 (J)	0.253	3.2	30.7	31
2040 (J+)	474 (J+)	0.009 (J)	8.43	—	0.00216 (U)	1850 (J+)	1.04 (U)	0.138 (J)	89.2 (J)	0.257	1.11	28.8	25.8
2720 (J+)	440 (J-)	0.0229	10.3	—	0.00234 (U)	2650 (J)	1.16 (UJ)	0.197 (J)	95.4	0.249	1.84	34.4	36.3
2760 (J+)	362 (J-)	0.0221	9.39	—	0.00222 (U)	2480 (J)	1.1 (UJ)	0.464 (J)	161	0.277	0.82	30.3	31.1
1720 (J+)	301 (J+)	0.0175	9.08	—	0.00071 (J)	1640 (J+)	1.22 (U)	0.601 (U)	81.2 (J+)	0.165 (J)	3.59 (J)	25	41
1010 (J+)	166 (J+)	0.0131	4.09	—	0.00214 (U)	745 (J+)	0.979 (U)	0.516 (U)	215 (J+)	0.0668 (J)	0.397 (J)	10	40.1
1090 (J+)	314 (J+)	0.00861 (J)	3.78	—	0.00269 (U)	834 (J+)	1.29 (U)	0.642 (U)	85.9 (J+)	0.0875 (J)	4.92 (J)	12.3	52.4
720 (J+)	280 (J+)	0.00853 (J)	3.07	—	0.00235 (U)	520 (J+)	1.16 (U)	0.542 (U)	94.6 (J+)	0.232 (U)	1.04 (J)	6.58	39.1
2070 (J+)	520 (J-)	0.0142 (J)	12.1	—	0.00249 (U)	2100 (J)	1.19 (UJ)	0.349 (J)	98	0.209 (J)	1.25	28.8	25.9
2450 (J+)	475 (J-)	0.0146	9	—	0.00221 (U)	2140 (J)	1.07 (UJ)	0.264 (J)	101	0.244	1.29	32.9	29.7
1180 (J+)	286 (J+)	0.00632 (J)	6.08	—	0.00239 (U)	1220 (J+)	1.15 (U)	0.565 (U)	170 (J+)	0.126 (J)	0.798 (J)	16.1	35
2060 (J+)	167 (J+)	0.0235	6.8	—	0.00223 (U)	1800 (J+)	1.1 (U)	0.532 (U)	96.3 (J+)	0.154 (J)	0.736 (J)	19.1	36.3
1380 (J+)	355 (J+)	0.0171	6.29	—	0.00254 (U)	1280 (J+)	1.25 (U)	0.628 (U)	74.3 (J+)	0.146 (J)	5.55 (J)	22.2	42.3
1910 (J+)	438 (J+)	0.008 (J)	5.75	—	0.00207 (U)	1660 (J+)	1.03 (U)	0.495 (U)	95.7 (J+)	0.151 (J)	0.999 (J)	27.8	28.2
1190 (J+)	330	0.00969 (J)	5.89	—	0.00237 (U)	958 (J+)	1.18 (U)	0.568 (U)	72.4	0.124 (J)	19.1	11	47
440 (J+)	270 (J+)	0.0113 (U)	2.17	—	0.00214 (U)	369 (J+)	1.02 (U)	0.519 (U)	103 (J+)	0.204 (U)	0.457 (J)	5.29	43.5
984 (J+)	318	0.00865 (J)	5.14	—	0.00243 (U)	802 (J+)	1.2 (U)	0.602 (U)	79.2	0.106 (J)	5.41	9.15	42.2
627 (J+)	280	0.0129	4.21	—	0.00223 (U)	473 (J+)	1.11 (U)	0.536 (U)	128	0.221 (U)	0.728	5.89	44.3
966 (J+)	273	0.0122 (J)	5.01	—	0.00271 (U)	808 (J+)	1.34 (U)	0.666 (U)	65.7	0.106 (J)	6.78	9.98	41
904 (J+)	321 (J+)	0.0115 (J)	3.21	—	0.000612 (J)	681 (J+)	1.07 (U)	0.532 (U)	85.1 (J+)	0.0689 (J)	0.557 (J)	12.7	38.4

1710 (J+)	451 (J+)	0.0162	6.05	—	0.00209 (J)	1590 (J+)	1.29 (U)	0.658 (U)	107 (J+)	0.13 (J)	8.43 (J)	16.3	55.8
956 (J+)	417	0.00653 (J)	3.45	—	0.0021 (U)	776 (J+)	1.02 (U)	0.5 (U)	81.9	0.0816 (J)	0.551	23.2	85.6
576 (J+)	203 (J+)	0.0125 (U)	1.79	—	0.00245 (U)	554 (J+)	1.2 (U)	0.609 (U)	42.3 (J+)	0.241 (U)	1.56 (J)	7.98	30.3
442 (J+)	179	0.00829 (J)	5.14	—	0.0023 (U)	434 (J+)	1.11 (U)	0.558 (U)	136	0.223 (U)	1.37	5.29	34.1
782 (J+)	203 (J+)	0.0108 (J)	3.58	—	0.000621 (J)	634 (J+)	1.12 (U)	0.594 (U)	80.3 (J+)	0.0711 (J)	3.18 (J)	13.2	47.4
320 (J+)	145 (J+)	0.00474 (J)	1.76	—	0.00229 (U)	321 (J+)	1.11 (U)	0.592	52.9	0.0849 (U)	2.08	7.52	26.3
662 (J+)	238 (J+)	0.00584 (J)	2.63	—	0.00221 (U)	515 (J+)	1.1 (U)	0.54 (U)	60.5 (J)	0.22 (U)	1.25	9.36	34
692 (J+)	215 (J+)	0.0124 (U)	2.57	—	0.00213 (U)	561 (J+)	1.05 (U)	0.255 (J)	75.7 (J)	0.21 (U)	0.857	9.3	37.8
476 (J)	203 (J+)	0.0113 (U)	1.97	—	0.00213 (U)	462 (J+)	1.06 (U)	0.118 (J)	51.4 (U)	0.212 (U)	1.07	6.11	35.9
486 (J+)	312 (J+)	0.00419 (J)	2.54	—	0.00217 (U)	467 (J+)	1.08 (U)	0.121 (J)	54 (U)	0.216 (U)	1.03	6.63	41.5
1910 (J+)	475	0.0116 (J)	9 (J-)	—	0.000909 (J)	1790 (J+)	1.1 (U)	0.482 (J)	60 (U)	0.2 (U)	2.59	25.7	23.9 (J)
2800 (J+)	394	0.0151	8.25 (J-)	—	0.00247 (U)	2360 (J+)	1.23 (U)	0.645	106 (U)	0.245 (U)	0.886 (J)	30.1	32.9
2330 (J+)	567	0.0146	8.17 (J-)	—	0.00239 (U)	2180 (J+)	1.17 (U)	0.693	61.4 (U)	0.288 (U)	1.67	30.4	29
2520 (J+)	414	0.0171	8.59 (J-)	—	0.00225 (U)	2080 (J+)	1.13 (U)	0.594	97.3 (U)	0.239 (U)	1.33	30.9	28.8
1640 (J+)	386	0.00698 (J)	6.38 (J-)	—	0.00216 (U)	1470 (J+)	1.07 (U)	0.456 (J)	72.5 (U)	0.168 (U)	1.72	23.6	30.5
2380 (J+)	372	0.0158	7.27 (J-)	—	0.0022 (U)	1950 (J+)	1.06 (U)	0.312 (J)	87.8 (U)	0.208 (U)	0.875 (J)	29.8	27.7
1980 (J+)	467	0.0125 (J)	7.79 (J-)	—	0.00117 (J)	1940 (J+)	1.17 (U)	0.682	62.7 (U)	0.215 (U)	2.5	25.9	36.4
2250 (J+)	443	0.0116 (J)	7.68 (J-)	—	0.000546 (J)	1880 (J+)	1.08 (U)	0.517 (J)	82.9 (U)	0.213 (U)	1.53	28.1	28.5
1810 (J+)	411	0.0118 (J)	8.47 (J-)	—	0.00243 (U)	1820 (J+)	1.19 (U)	0.589 (J)	57 (U)	0.203 (U)	1.68	24.7	26.9 (J)
2430 (J+)	415	0.015	8.02 (J-)	—	0.0006 (J)	2070 (J+)	1.09 (U)	0.5 (J)	84.9 (U)	0.217 (U)	0.879 (J)	30.2	29.1
1860 (J+)	427	0.0139	8.22 (J-)	—	0.00262 (U)	1960 (J+)	1.25 (U)	0.632 (J)	46.5 (U)	0.219 (U)	2.92	25.4	28.7 (J)
2480 (J+)	433	0.00972 (J)	7.84 (J-)	—	0.00223 (U)	2210 (J+)	1.09 (U)	0.606	74.2 (U)	0.222 (U)	1.13	31.5	28.4
1820 (J+)	362	0.00712 (J)	8.87 (J-)	—	0.000738 (J)	1920 (J+)	1.22 (U)	0.594 (J)	66.8 (U)	0.166 (U)	3.59	23.2	37.3
2710 (J+)	288	0.0219	8.64 (J-)	—	0.00228 (U)	2110 (J+)	1.14 (U)	0.557	133	0.231 (U)	0.983	26.3	29.1
1930 (J+)	465	0.0124 (J)	11.3 (J-)	—	0.0024 (U)	1860 (J+)	1.19 (U)	0.796	60.7 (U)	0.201 (U)	1.92	28.1	26.7 (J)
2530 (J+)	370	0.0147	7.77 (J-)	—	0.0022 (U)	2190 (J+)	1.09 (U)	0.579	94.8 (U)	0.21 (U)	0.81 (J)	29.3	29.6
1740	337 (J)	0.0171	7.95	—	0.000809 (J)	1670 (J+)	1.15 (UJ)	0.624	55.1 (U)	0.222 (J)	2.24 (J+)	21.2	23.3
2710	1380 (J)	0.0176	8.91	—	0.00223 (U)	2010 (J+)	1.06 (UJ)	1.11	143	0.283	0.97 (J+)	32.3	27.1
1940	415 (J)	0.0134	7.84	—	0.00234 (U)	1850 (J+)	1.14 (UJ)	0.803	49.3 (U)	0.218 (J)	2.15	27.4	30.1
2230	336 (J)	0.014	7.49	—	0.00222 (U)	2130 (J+)	1.1 (UJ)	0.668	65.1 (U)	0.219 (J)	1.97	25	25.8
1820	387 (J)	0.0161	6.62	—	0.00226 (U)	1740 (J+)	1.05 (UJ)	0.787	47.4 (U)	0.184 (J)	8.68 (J+)	25.5	30.3
2530	343 (J)	0.0198	8.56	—	0.00222 (U)	2040 (J+)	1.1 (UJ)	0.909	102	0.233	1.35	26.6	26.2
2190	360 (J)	0.0162	7.94	—	0.00235 (U)	2070 (J+)	1.12 (UJ)	0.834	65.9 (U)	0.228	1.9 (J+)	29.6	27.4
2080	291 (J)	0.0157	7.19	—	0.00217 (U)	1740 (J+)	1.06 (UJ)	0.725	79.4	0.236	0.634	23.1	30.9
2010	471 (J)	0.0142	9.16	—	0.00234 (U)	1960 (J+)	1.13 (UJ)	0.964	60.4 (U)	0.225	7.42	26.3	47.5
2560	320 (J)	0.0236	8.52	—	0.00226 (U)	2110 (J+)	1.12 (UJ)	0.538 (J)	90.3	0.235	1.16	30.6	28.4
1820	464 (J)	0.0155	7.86	—	0.00239 (U)	1710 (J+)	1.15 (UJ)	0.761	58 (U)	0.208 (J)	4.48	26.5	31.5
2300	330 (J)	0.0198	8.86	—	0.00222 (U)	1890 (J+)	1.09 (UJ)	0.823	96	0.243	1.08	27.2	23.5
2120	416 (J)	0.0138	8.39	—	0.00223 (U)	1900 (J+)	1.08 (UJ)	0.831	58.2 (U)	0.229	1.52	28.1	24.5
2290	308 (J)	0.0234	7.55	—	0.00224 (U)	1810 (J+)	1.08 (UJ)	0.761	152	0.243	0.756	23.8	25.6
2110	331 (J)	0.0173	9.34	—	0.00242 (U)	1830 (J+)	1.19 (UJ)	0.744	74.7 (U)	0.264	3.58	25.5	31
1490	203 (J)	0.01 (J)	5.38	—	0.00211 (U)	1070 (J+)	1.01 (UJ)	0.7	135	0.146 (J)	1.45 (J+)	10.7	31.3
1940	372 (J)	0.0177	8.72	—	0.00256 (U)	2020 (J+)	1.23 (UJ)	0.927	78.1 (U)	0.27	1.92	28	26.6
2690	354 (J)	0.0253	10.3	—	0.000645 (J)	2200 (J+)	1.09 (UJ)	0.658	128	0.258	1.25	31.2	28.5
598 (J+)	418 (J+)	0.0123 (U)	5.07	—	0.00212 (U)	613 (J+)	1.06 (U)	0.164 (J)	248	0.105 (J)	0.692	12.5	37.9
2220 (J+)	367 (J+)	0.0189	9.28	—	0.00223 (U)	1830 (J+)	1.1 (U)	0.542 (U)	184	0.247	1.14	27.1	34.5
1290 (J+)	293	0.019	6.36	—	0.00255 (U)	1250 (J+)	1.26 (U)	0.695	71.9 (U)	0.102 (U)	2.51	17.1	28.7

1560 (J+)	285	0.0242	6.4	—	0.00223 (U)	1290 (J+)	1.09 (U)	0.593	111	0.139 (U)	0.463	11.3	30.6
2570 (J+)	383	0.018	12	—	0.0024 (U)	1950 (J+)	1.2 (U)	0.603	190	0.233 (U)	1.47	30.3	27.7
1960 (J+)	216	0.0226	8.94	—	0.00221 (U)	1330 (J+)	1.1 (U)	0.553	432	0.194 (U)	0.647	17.9	20.9
2110 (J+)	322	0.0147	9.69	—	0.00231 (U)	1710 (J+)	1.16 (U)	0.698	343	0.251 (U)	0.709	25	25.5
2170 (J+)	273	0.0132	10.1	—	0.000553 (J)	1660 (J+)	1.1 (U)	0.565	679	0.189 (U)	0.836	21.6	24.7
1840 (J+)	270	0.0153	8.44	—	0.00239 (U)	1580 (J+)	1.16 (U)	0.657	60 (U)	0.171 (U)	3.08	18.6	24.8
635 (J+)	391	0.0114 (U)	4.04	—	0.00212 (U)	565 (J+)	1.03 (U)	0.403 (J)	85.2	0.0684 (U)	1.04	8.51	24
1080 (J+)	302	0.0118 (J)	6.09	—	0.00238 (U)	1070 (J+)	1.18 (U)	0.624	65.6 (U)	0.0862 (U)	2.91	15.1	27.3
305 (J+)	228	0.0119 (U)	3.28	—	0.00207 (U)	356 (J+)	0.996 (U)	0.458 (J)	91.7	0.199 (U)	0.385	3.32	20.8
1060 (J+)	292	0.0116 (J)	6.11	—	0.00236 (U)	919 (J+)	1.18 (U)	0.566 (J)	62.5 (U)	0.0857 (U)	2.15	16	25
766 (J+)	275	0.0154	4.96	—	0.00214 (U)	683 (J+)	1.07 (U)	0.459 (J)	64.5	0.0828 (U)	4.58	11.4	22.2
1560 (J+)	314	0.0189	8.69 (J+)	—	0.00078 (J)	1490 (J+)	1.25 (U)	0.631 (U)	54.3 (U)	0.167 (J)	7.12	20.8	60.6
853 (J+)	275	0.0228	7.01 (J+)	—	0.00222 (U)	634 (J+)	1.11 (U)	0.549 (U)	91.1 (J)	0.157 (J)	0.661	9.48	25.3
563	296	0.0201	4.89	—	0.00233 (U)	589	1.15 (UJ)	0.502 (J)	128	0.0781 (U)	1.39	8.34	28.4
486	212	0.0274	3.24	—	0.00214 (U)	471	1.02 (UJ)	0.392 (J)	98	0.0662 (U)	0.52	6.2	20.7
1810	328	0.0306	5.98	—	0.0025 (U)	1530	1.25 (UJ)	0.487 (J)	70.6	0.125 (U)	6.34	19.2	38.7
1290	217	0.0316	7.16	—	0.00231 (U)	951	1.13 (UJ)	0.438 (J)	94.4	0.127 (U)	1.27	12.4	25.4
1120	265	0.0127	3.76	—	0.00219 (U)	903	1.09 (UJ)	0.421 (J)	80.2	0.0875 (U)	0.945	13.8	28
1090	204	0.0209	6.14	—	0.00212 (U)	799	1.04 (UJ)	0.441 (J)	92.2	0.0872 (U)	0.697	12.3	22.2
519	394	0.00911 (J)	1.55	—	0.00225 (U)	499	1.12 (UJ)	0.309 (J)	70	0.224 (UJ)	2.08	4.74	45.8
370	292	0.0126 (U)	0.837	—	0.00213 (U)	320	1.02 (UJ)	0.369 (J)	200	0.205 (UJ)	0.615	2.7	48.3
498	264	0.00509 (J)	3.23	—	0.00249 (U)	477	1.22 (UJ)	0.363 (J)	42.4	0.0916 (U)	2.63	5.97	37.1
438	257	0.00497 (J)	1.68	—	0.00215 (U)	406	1.07 (UJ)	0.359 (J)	55	0.214 (UJ)	0.678	7	43.2
603	330	0.0057 (J)	1.87	—	0.00222 (U)	530	1.08 (UJ)	0.523 (J)	48.8	0.217 (UJ)	3.89	8.03	45.6
337	326	0.0125 (U)	1.53	—	0.00213 (U)	291	1.01 (UJ)	0.393 (J)	89.9	0.203 (UJ)	0.628	3.21	44.9
599	301	0.00819 (J)	2.58	—	0.00229 (U)	553	1.14 (UJ)	0.358 (J)	53.2	0.229 (UJ)	4.76	7.04	38.5
938	225	0.0169	3.27	—	0.00216 (U)	622	1.06 (UJ)	0.433 (J)	64.4	0.211 (UJ)	1.01	8.39	41.8
312 (J)	205 (J+)	0.0136 (U)	1.54	—	0.00229 (U)	314 (J+)	1.12 (U)	0.282 (J)	55.1 (U)	0.224 (U)	1.84	4.47	34.5
608 (J+)	238 (J+)	0.0135 (U)	4.62	—	0.00231 (U)	484 (J+)	1.12 (U)	0.215 (J)	100 (J)	0.224 (U)	1.23	8.6	43.8
408 (J)	174 (J+)	0.0128 (U)	1.47	—	0.00237 (U)	357 (J+)	1.13 (U)	0.573 (U)	51.7 (U)	0.227 (U)	3.23	4.52	28.2
3000 (J+)	604	0.0136	8.06	—	0.0022 (U)	2990 (J+)	1.08 (U)	0.239 (J)	222	0.219 (U)	2.6	47.5	42.9
1900 (J+)	304	0.0138	6.57	—	0.000832 (J)	1640 (J+)	1.09 (U)	0.259 (J)	387	0.174 (U)	0.832	22.5	24.4
867 (J+)	319	0.00741 (J)	3.5	—	0.00206 (U)	667 (J+)	1.03 (U)	0.277 (J)	357	0.0731 (U)	0.735	6.04	28.5
1630 (J+)	310	0.0134	6.93	—	0.00218 (U)	1600 (J+)	1.09 (U)	0.246 (J)	79.6	0.174 (U)	1.7	22.8	25.4
1320 (J+)	300	0.0136	4.94	—	0.00213 (U)	1080 (J+)	1.03 (U)	0.262 (J)	214	0.112 (U)	0.741	12.7	24.3
351 (J+)	227	0.00711 (J)	2.35	—	0.00205 (U)	358 (J+)	1.01 (U)	0.247 (J)	209	0.0654 (U)	0.934	3.62	20.6
—	—	—	—	—	—	—	—	—	—	—	0.292	—	—
—	—	—	—	—	—	—	—	—	—	—	0.901	—	—
1700	286 (J-)	0.0216 (J)	6.5	—	0.0058 (U)	1860	0.86	0.048 (J)	58.8 (U)	0.24	5.8	20.3	21.2
2210	278 (J-)	0.0318 (J)	8.3	—	0.0059 (U)	1990	1.1	0.068 (J)	365	0.24	0.67	23.1	23
3230	176 (J-)	0.085	13.9	—	0.006 (U)	2300	1.3	0.14 (J)	1470	0.24 (U)	0.93	21.2	35.8
1370	341 (J-)	0.0194 (J)	6.2	—	0.0058 (U)	1450	0.88	0.037 (J)	59.9 (U)	0.23 (U)	1.5	20	18.5
1560	301 (J-)	0.0222 (J)	8.5	—	0.0053 (U)	1330	0.69	0.036 (J)	336	0.21 (J)	0.42	17.8	24.4
598	170 (J-)	0.0143 (J)	7.5	—	0.0052 (U)	503	1.2	0.037 (J)	323	0.21 (U)	0.45	4.2	24
265	399	0.011 (U)	1.87	1.03 (U)	0.00205 (U)	364 (J+)	0.969 (UJ)	0.508 (U)	218	0.194 (U)	0.613	3.63	46.6
160	497	0.0114 (U)	1.72	1.02 (U)	0.00204 (U)	438 (J+)	0.884 (UJ)	0.428 (U)	332	0.177 (U)	0.687	2.75	47
3080	402	0.0561	10.6	1.18 (U)	0.00127 (J)	1920 (J+)	1.02 (UJ)	0.533 (U)	155	0.152 (J)	1.37	16.2	49.6

461	362	0.0105 (U)	1.59	1.03 (U)	0.00206 (U)	479 (J+)	0.999 (UJ)	0.505 (U)	224	0.2 (U)	0.587	4.12	38.7
1730	359	0.0117 (U)	6.82	1.08 (U)	0.00232	1510 (J+)	0.922 (UJ)	0.456 (U)	452	0.124 (J)	0.688	15.7	33.4
766	359	0.0111 (U)	2.99	1.04 (U)	0.00377	601 (J+)	1.02 (UJ)	0.498 (U)	358	0.204 (U)	0.678	7.32	50.5
167	259 (J)	0.0116 (U)	1.06	1.77 (J-)	0.00203 (U)	488 (J+)	1 (U)	0.472 (U)	390 (J)	0.201 (U)	0.908	2.07	42.3 (J-)
308	251 (J)	0.0107 (U)	2.06	2.87 (J-)	0.00206 (U)	435 (J+)	0.93 (U)	0.507 (U)	293 (J)	0.186 (U)	0.676	2.94	43.2 (J-)
132	271 (J)	0.0112 (U)	0.569	2.04 (J-)	0.00207 (U)	586 (J+)	0.99 (U)	0.478 (U)	555 (J+)	0.198 (U)	0.716	1.78	44.4 (J-)
181	250 (J)	0.0127 (U)	0.783	2.27 (J-)	0.00211 (U)	516 (J+)	1.01 (U)	0.505 (U)	441 (J)	0.202 (U)	0.676	2.12	42.8 (J-)
692 (J+)	331	0.0306 (J)	4.04	1.27	0.00221 (U)	612 (J+)	1.03 (U)	0.526 (U)	251 (J)	0.207 (U)	0.55	7.54	45.4
378 (J+)	296	0.0104 (J)	3.22	1.14 (U)	0.00228 (U)	1030 (J+)	1.13 (U)	0.541 (U)	1720 (J-)	0.227 (U)	0.579	7.27	37.7 (J+)
469 (J+)	300	0.0095 (J)	5.72	2.27	0.00226 (U)	517 (J+)	1.09 (U)	0.541 (U)	239 (J)	0.219 (U)	0.581	4.48	46.6
718	232 (J)	0.0146	3.83	2.38 (J-)	0.00126 (U)	690 (J+)	0.991 (U)	0.515 (U)	200 (J)	0.198 (U)	0.6	6.18	37.4 (J-)
659	182 (J)	0.0158	3.12	1.92 (J-)	0.000694 (U)	725 (J+)	1.12 (U)	0.557 (U)	159 (J)	0.225 (U)	0.63	5.21	35.3 (J-)
572 (J+)	191	0.0524 (J)	2.52	2.24	0.000811 (J)	491 (J+)	1.05 (U)	0.534 (U)	134 (J)	0.211 (U)	0.723	6.23	47.4
529	174 (J)	0.00718 (J)	2.74	1.04 (UJ)	0.00108 (U)	507 (J+)	1.04 (U)	0.505 (U)	287 (J)	0.208 (U)	0.688	3.94	34.8 (J-)
928 (J+)	242	0.00785 (J)	3.72	1.15 (U)	0.00229 (U)	666 (J+)	1.07 (U)	0.548 (U)	165 (J)	0.214 (U)	0.685	7.87	49.1
661	328 (J)	0.00875 (J)	3.98	1.62 (J-)	0.00103 (U)	529 (J+)	1.02 (U)	0.495 (U)	200 (J)	0.204 (U)	0.58	5.65	36.5 (J-)
967 (J+)	234	0.0158 (J)	3.1	1.48	0.000631 (J)	741 (J+)	1.03 (U)	0.536 (U)	132 (J)	0.206 (U)	0.586	7.62	41.2
507	177 (J)	0.0117 (J)	3	1.12 (UJ)	0.00224 (U)	546 (J+)	1.07 (U)	0.534 (U)	357 (J)	0.214 (U)	0.668	3.02	33.6 (J-)
1120 (J+)	240	0.0172 (J)	4.42	1.13 (U)	0.000683 (J)	867 (J+)	1.1 (U)	0.549 (U)	131 (J)	0.22 (U)	0.725	8.63	51
436	219 (J)	0.00932 (J)	2.46	1.68 (J-)	0.00211 (U)	496 (J+)	1.02 (U)	0.492 (U)	327 (J)	0.204 (U)	0.509	3.04	38.9 (J-)
531	244 (J)	0.00539 (J)	2.47	1.02 (UJ)	0.00205 (U)	598 (J+)	0.986 (U)	0.509 (U)	399 (J)	0.197 (U)	0.676	4.16	42.6 (J-)
1210 (J+)	281	0.0175 (J)	6.48	1.38	0.000796 (J)	865 (J+)	1.11 (U)	0.591 (U)	924	0.222 (U)	0.679	11	41.5
3800 (J+)	256	0.0535 (J)	39.9	1.47	0.00229 (J)	2220 (J+)	1.28 (U)	0.644 (U)	1300	0.218 (J)	0.884	26.1	50.5
1160 (J+)	279	0.169	0.43 (U)	15.5	0.0591	1360 (J+)	1.08 (U)	0.562 (U)	455	0.215 (U)	0.043 (U)	11.2 (J)	67.9
1230 (J+)	243	0.118	5.43	17.7	0.0882	1280 (J+)	1.12 (U)	0.546 (U)	735	0.0908 (U)	1.3	11.1 (J)	51.2
1580 (J+)	537	0.0855	6.01	1.61	0.0136	1970 (J+)	1.15 (U)	0.348 (J)	92	0.124 (U)	1.67	15.8 (J)	51.4
1320 (J+)	290	0.0324	2.41	1.12 (U)	0.0124	1270 (J+)	1.12 (U)	0.53 (U)	84	0.595 (U)	1.07	13.9 (J)	36
997 (J+)	368	0.706	6	4.25	0.0541	1100 (J+)	1.24 (U)	0.588 (U)	54.2 (U)	0.102 (J)	1.07	7.68	72.8
1010 (J)	165	0.0774	3.95 (J)	1.24 (UJ)	0.00253 (U)	784	1.11 (U)	0.216 (J)	233	0.221 (U)	0.751 (J)	16.6	109
631 (J)	240	0.0457	4.23 (J)	1.25 (UJ)	0.00254 (U)	1020	1.24 (U)	0.295 (J)	332	0.19 (J)	0.648 (J)	8.87 (J)	56.3
1880 (J+)	549	0.0642	6.8	12.4	0.00104 (J)	1920 (J+)	1.69 (U)	0.189 (J)	94.3 (U)	0.14 (J)	3.55	11.4	42.7
1590 (J+)	279	0.0191	7.11	2.97	0.00225 (U)	1610 (J+)	1.09 (U)	0.137 (J)	97.4	0.124 (J)	0.635 (J)	22.1	29.8
1220 (J+)	330	0.0388	6.84	1.34	0.00253 (U)	923 (J+)	1.21 (U)	0.578 (U)	83.8 (U)	0.0918 (J)	1.45 (J)	21	61.7
1440 (J+)	263	0.0408	7.03	1.47	0.00246 (U)	1020 (J+)	1.18 (U)	0.603 (U)	87.5 (U)	0.108 (J)	1.22 (J)	16.3	32.6
1110 (J+)	610	0.302	3.98	5.29	0.0188	1130 (J+)	1.19 (U)	0.633	75.9 (U)	0.238 (U)	1.44 (J)	8.8	38.1
934 (J+)	177	0.049	3.74	2.73	0.0219	894 (J+)	1.08 (U)	0.136 (J)	79.3 (U)	0.0685 (J)	0.743 (J)	9.69	37.4
1100 (J+)	325	0.0276	4.28	1.39	0.00181 (J)	867 (J+)	1.12 (U)	0.578 (U)	63.9 (U)	0.0726 (J)	0.947	11.5	42.2
1080 (J+)	186	0.0156	3.71	1.01	0.0015 (J)	728 (J+)	1.05 (U)	0.524 (U)	72.9 (U)	0.209 (U)	0.542	12.2	28
1250	342	0.0862	4.16	2.04 (UJ)	0.00128 (J+)	1240 (J+)	2.03 (U)	0.964 (U)	64.1 (J+)	0.406 (U)	4.63	9.63	32.7
2590	336	0.0174	9.22	1.33 (J)	0.00219 (U)	2200 (J+)	1.01 (U)	0.529 (U)	103 (J+)	0.174 (J)	0.197	26.2	31.6
1420 (J+)	506	0.0316	6.24	29.9	0.00506	1380 (J+)	1.22 (U)	0.31 (J)	86.2	0.102 (U)	1.37	15.5 (J)	39.7
791 (J+)	240	0.0207	3.73	1.14 (U)	0.00319	840 (J+)	1.13 (U)	0.569 (U)	123	0.226 (U)	0.652	11.4 (J)	27.8
1050	288	0.0716	4.85	12.7 (J)	0.00215 (J+)	927 (J+)	1.51 (U)	0.71 (U)	42.7 (J+)	0.103 (J)	2.97	8.13	34.2
1000	274	0.00598 (J)	5.14	2.08 (J)	0.00113 (J+)	1000 (J+)	1.04 (U)	0.124 (J)	62.5 (J+)	0.0963 (J)	0.593	12.4	35.2
1580 (J+)	605	0.0236	5.52	4.09	0.00499	1630 (J+)	1.35 (U)	0.328 (J)	75.3	0.27 (U)	1.85	15.8 (J)	200
1790 (J+)	271	14.8	4.47	1.3 (U)	0.00912	1070 (J+)	1.28 (U)	1.15	126	0.0789 (U)	3.1	16.3 (J)	936
1210 (J+)	228	10.3	5.9	1.16 (U)	0.0175	850 (J+)	1.1 (U)	0.32 (J)	150	0.0671 (U)	1.88	11.4 (J)	134

1750 (J+)	520	0.0449	5.88	2.04	0.0029	1480 (J+)	1.39 (U)	0.165 (J)	84.1	0.278 (U)	3.88	17.2 (J)	44.8
1140 (J+)	267	0.0651	4.2	1.84	0.00221 (J)	995 (J+)	1.21 (U)	0.149 (J)	96.6	0.104 (U)	1.41	13.2 (J)	30.3
1620 (J+)	646	0.0523	6.84	1.58	0.00286 (U)	1450 (J+)	1.33 (U)	0.713 (U)	62.8 (U)	0.0867 (J)	1.54	13.5	40
1600 (J+)	216	0.0361	5.99	1.25	0.00143 (J)	1190 (J+)	1.22 (U)	0.62 (U)	63.2 (U)	0.085 (J)	0.876	13.4	38.9
985 (J+)	441	0.0993	4.71	4.61	0.0018 (J)	890 (J+)	1.18 (U)	0.557 (U)	46.8 (U)	0.236 (U)	1.96	7.56	34.6
745 (J+)	165	0.0125 (U)	2.6	1.03	0.000633 (J)	519 (J+)	1.02 (U)	0.495 (U)	62 (U)	0.204 (U)	0.494	7.7	40.2
1410 (J+)	655	0.0402	4.44	1.17 (U)	0.000991 (J)	1320 (J+)	1.22 (U)	0.593 (U)	75.6 (U)	0.244 (U)	1.47	11.5	37.6
1100 (J+)	301	0.00758 (J)	3.37	1.17	0.000658 (J)	871 (J+)	1.06 (U)	0.514 (U)	69.6 (U)	0.212 (U)	0.558	9.36	37.3
970 (J+)	465	0.109	5.15	3.29	0.00268	913 (J+)	1.16 (U)	0.612 (U)	45.6 (U)	0.0818 (J)	2.68	8.68	40.4
828 (J+)	245	0.016	3.31	1.24	0.00164 (J)	752 (J+)	1.15 (U)	0.539 (U)	72.2 (U)	0.231 (U)	0.801	9.4	39
1740 (J+)	290	0.0244	5.57	4.83	0.00267 (U)	1640 (J+)	1.28 (U)	0.643 (U)	65.8 (U)	0.0922 (J)	1.53	20.3	35.1
2010 (J+)	470	0.026	5.79	1.86	0.000673 (J)	1650 (J+)	1.2 (U)	0.596 (U)	94.8 (U)	0.0893 (J)	0.981	25.4	33.8
1210 (J+)	692	0.199	4.98	2.64	0.0319	1120 (J+)	1.28 (U)	0.634 (U)	91.4 (U)	0.257 (U)	1.34	10.5	53.7
1220 (J+)	419	0.0231	6.56	7.51	0.000994 (J)	1490 (J+)	1.4 (U)	0.626 (U)	43.6 (U)	0.279 (U)	1.31	10.1	45.3
1380 (J+)	297	0.00813 (J)	4.93	4.29	0.00242 (U)	1710 (J+)	1.2 (U)	0.602 (U)	62.3 (U)	0.24 (U)	0.756	14	46.9
1440 (J+)	252	0.0244	4.36	1.95	0.000714 (J)	1210 (J+)	1.15 (U)	0.591 (U)	54.6 (U)	0.0865 (J)	1.01	17.9	28.6
1880 (J+)	188	0.00855 (J)	4.03	1.22	0.000672 (J)	1400 (J+)	1.02 (U)	0.549 (U)	105 (U)	0.0817 (J)	0.628	23.1	33.2
1830 (J+)	638	0.0381	6.33	1.69	0.0033 (U)	1800 (J+)	1.49 (U)	0.786 (U)	68.3 (U)	0.0947 (J)	1.46	17.1	32.9
1600 (J+)	564	0.0113 (J)	6.83	1.56	0.00266 (U)	1650 (J+)	1.32 (U)	0.612 (U)	87.6 (U)	0.0965 (J)	1.09	17	33.3
194 (J+)	371	0.00856 (J)	3.24	1.47	0.00218 (U)	522 (J+)	1.04 (U)	0.162 (J)	317	0.209 (U)	0.511	2.46	41.4
1010 (J+)	643	0.0404	4.47	3.42	0.00362 (U)	1030 (J+)	1.74 (U)	0.209 (J)	184	0.349 (U)	1.2	8.82	55.5
1710 (J+)	485	0.0732	5.77	2.39	0.00206 (J)	1250 (J+)	1.31 (U)	0.175 (J)	88.7 (U)	0.261 (U)	2.34	14.4	34.2
1040 (J+)	127	0.0106 (J)	3.93	1.39	0.00178 (J)	574 (J+)	1.08 (U)	0.535 (U)	99.8	0.216 (U)	0.515	12.5	30.7
1110 (J+)	302	0.0849	6.17	2.52	0.00433	1200 (J+)	1.21 (U)	0.193 (J)	106	0.243 (U)	1.69	7.66	24.9
1290 (J+)	261	0.0428	4.68	1.17 (U)	0.00384	1550 (J+)	1.15 (U)	0.223 (J)	104	0.0871 (U)	0.655	12.6	34
1420 (J+)	679	0.079	6.03	1.99	0.00414	1460 (J+)	1.15 (U)	0.601 (U)	86.7 (U)	0.23 (U)	1.52	12.1	33.2
938 (J+)	274	0.0239	5.42	1.68	0.00241	826 (J+)	1.09 (U)	0.523 (U)	63.9 (U)	0.219 (U)	1.08	10.2	39.1
1120 (J)	111	0.0152	6.36 (J)	1.15 (UJ)	0.00229 (U)	522	1.1 (U)	0.126 (J)	91.5	0.22 (U)	0.816	11.3	40.2
738 (J)	232	0.0422	4.35 (J)	1.08 (UJ)	0.00217 (U)	529	1.05 (U)	0.237 (J)	304	0.0709 (J)	0.786	11	188
972 (J)	259	0.0415	6.42 (J)	2.87 (J-)	0.000689 (J)	813	1.03 (U)	0.174 (J)	109	0.0886 (J)	0.89	11.7	46.4
1390 (J)	240	0.0422	7.53 (J)	1.56 (J-)	0.000602 (J)	1060	1.02 (U)	0.499 (U)	92.1	0.108 (J)	0.748	15.2	44.3
970 (J)	168	0.0787	8.88 (J)	1.27 (UJ)	0.00257 (U)	1150	1.21 (U)	0.177 (J)	324	0.242 (U)	2.35	12.8	80.8
623 (J)	164	0.469	15.3 (J)	1.25 (UJ)	0.00252 (U)	745	1.24 (U)	0.419 (J)	281	0.248 (U)	0.934	6.97 (J)	69.4
1250 (J)	248	1.68	6.68 (J)	2.66 (J-)	0.00072 (J)	1290	1.07 (U)	0.319 (J)	97.1	0.214 (U)	0.951	12.6	59.7
1040 (J)	234	1.75	9.31 (J)	1.36 (UJ)	0.00272 (U)	894	1.33 (U)	0.269 (J)	113	0.266 (U)	1.01	8.92 (J)	47.5
1530 (J)	344	25	12.2 (J)	19.9 (J-)	0.00905	1360	1.13 (U)	1.5	254	0.0831 (J)	1.99	13.2	70.6
1480 (J)	357	22	7.14 (J)	2.91 (J-)	0.00222 (J)	1180	1.16 (U)	0.263 (J)	177	0.0954 (J)	1.31	14.3	59.6
501 (J)	318	0.421	4.06 (J)	1.42 (UJ)	0.00285 (U)	559	1.34 (U)	0.163 (J)	208	0.269 (U)	0.757 (J)	9.94 (J)	96.7
467 (J)	352	0.111	3.18 (J)	1.27 (UJ)	0.00256 (U)	742	1.1 (U)	0.416 (J)	203	0.22 (U)	0.508 (J)	5.02 (J)	50.7
1350 (J)	505	2.32	5.53 (J)	2.25 (J-)	0.0107	1410	1.09 (U)	0.45 (J)	101 (U)	0.0783 (J)	1.8	9.71 (J)	47.2
732 (J)	367	0.862	5.83 (J)	1.37 (UJ)	0.00347	667	1.36 (U)	0.37 (J)	560	0.273 (U)	1.12	8.95 (J)	126
771 (J)	369	0.146	5.01 (J)	1.2 (UJ)	0.002 (J)	487	1.19 (U)	0.197 (J)	574	0.238 (U)	0.517 (J)	7.49 (J)	51.8
615 (J+)	189	0.0124 (J)	3.16	1.3 (U)	0.00262 (U)	593 (J+)	1.16 (U)	0.607 (U)	165	0.232 (U)	0.739 (J)	12.1	32.8
922 (J+)	250	0.014	5.14	2.23	0.00222 (U)	786 (J+)	1.08 (U)	0.127 (J)	82.6 (U)	0.0725 (J)	1.32 (J)	13	37.3
1020 (J+)	319	0.0247	5.1	1.33 (U)	0.00275 (U)	1150 (J+)	1.36 (U)	0.679 (U)	90.6 (U)	0.272 (U)	1.6 (J)	12.3	36
938 (J+)	263	0.013	4.64	1.13 (U)	0.00228 (U)	855 (J+)	1.1 (U)	0.155 (J)	85.3 (U)	0.221 (U)	0.647 (J)	11	34.1
999 (J+)	402	0.0367	6.17	1.49 (U)	0.00298 (U)	928 (J+)	1.36 (U)	0.731 (U)	79.1 (U)	0.272 (U)	2.78	11	47.6

918 (J+)	321	0.0216	5.56	1.29 (U)	0.00264 (U)	836 (J+)	1.19 (U)	0.193 (J)	89.9 (U)	0.239 (U)	0.926 (J)	10.8	43.7
1080 (J+)	417	0.0512	4.84	1.96	0.000724 (J)	1100 (J+)	1.25 (U)	0.209 (J)	92.9 (U)	0.249 (U)	2.43	8.83	42
1080 (J+)	384	0.0271	4.59	1.7	0.000817 (J)	1070 (J+)	1.21 (U)	0.176 (J)	65 (U)	0.242 (U)	1.51 (J)	8.02	30.7
1020 (J+)	243	0.0512	3.66	1.36 (U)	0.00137 (J)	770 (J+)	1.25 (U)	0.669 (U)	74.5 (U)	0.25 (U)	1.52 (J)	12.8	38.1
1500 (J+)	221	0.0458	4.93	1.27 (U)	0.00173 (J)	882 (J+)	1.22 (U)	0.632 (U)	87.3 (U)	0.0806 (J)	2.21	16.3	37.9
1830 (J+)	301	0.0369	7.01	6.15	0.00265 (U)	2030 (J+)	1.29 (U)	0.659 (U)	94.4 (U)	0.107 (J)	0.982 (J)	22.5	32.7
1990 (J+)	205	0.032	7.82	2.67	0.000627 (J)	1500 (J+)	1.11 (U)	0.107 (J)	203	0.143 (J)	1 (J)	26.6	28.5
1210 (J+)	260	0.0217	6.57	1.54 (U)	0.00308 (U)	1160 (J+)	1.38 (U)	0.203 (J)	77.4 (U)	0.277 (U)	1.24 (J)	14.6	41.9
1030 (J+)	296	0.0228	5.34	1.45	0.0027 (U)	957 (J+)	1.19 (U)	0.148 (J)	76.4 (U)	0.0735 (J)	0.88 (J)	14.1	39.5
1220 (J+)	283	0.0658	7.6	1.93	0.00264 (J)	1210 (J+)	1.54 (U)	0.764 (U)	101 (U)	0.102 (J)	4.12	15	29.3
1610 (J+)	220	0.0383	6.26	5.34	0.00118 (J)	1560 (J+)	1.23 (U)	0.188 (J)	121 (U)	0.0912 (J)	1.35	21.4	25.5
1170 (J+)	893	0.186	8.35	1.16 (U)	0.00931	993 (J+)	1.34 (U)	0.349 (J)	66.3 (U)	0.268 (U)	1.25	8.44	46.7
1030 (J+)	549	0.0325	5.44	1.04 (U)	0.00604	921 (J+)	1.12 (U)	0.564 (U)	86.2 (U)	0.224 (U)	0.587	10	51.5
1190 (J+)	477	0.135	5.01	1.81	0.00218 (J)	1170 (J+)	1.26 (U)	0.791	67.6 (U)	0.253 (U)	1.88	11.6	47.9
1090 (J+)	378	0.0657	4.38	5.04	0.00205 (J)	1020 (J+)	0.999 (U)	0.644	67.8 (U)	0.2 (U)	0.972	11.6	44.2
1440 (J+)	361	0.0135 (J)	6.62	2.91	0.00296 (U)	1510 (J+)	1.34 (U)	0.152 (J)	85.5 (U)	0.268 (U)	2.43	17.1	35.3
1370 (J+)	398	0.0118 (J)	5.83	1.9	0.00259 (U)	1380 (J+)	1.14 (U)	0.62 (U)	79.6 (U)	0.0916 (J)	1.79	20.1	36.9
1280 (J+)	326	0.0212	5.06	1.55	0.00274 (U)	1430 (J+)	1.33 (U)	0.588 (U)	64.7 (U)	0.266 (U)	3.09	17	32.8
1390 (J+)	362	0.0138 (J)	5.33	2.61	0.00256 (U)	1490 (J+)	1.23 (U)	0.588 (U)	75.3 (U)	0.0796 (J)	1.35	20.5	38.6
900 (J+)	132	0.0163	3.86	1.32 (U)	0.00775	809 (J+)	1.25 (U)	0.607 (U)	100 (U)	0.0829 (J)	0.503	11	32.4 (J+)
1050 (J+)	576	0.232	5.55	4.43	0.000991 (J)	1120 (J+)	1.39 (U)	4.32	69.4 (J-)	0.126 (J)	3.89	10.6	45 (J+)
972 (J+)	493	0.0713	4.4	2.43	0.000926 (J)	961 (J+)	0.955 (U)	2.96	60.6 (J-)	0.0862 (J)	1.17	10.4	44.8 (J+)
932 (J+)	487	0.109	5.75	1.67 (U)	0.00334 (U)	979 (J+)	1.56 (U)	0.663 (U)	59.1 (U)	0.311 (U)	2.26	9.19	41.6 (J+)
1660 (J+)	365	0.0336 (U)	5.51	1.73	0.000642 (J)	1540 (J+)	1.1 (U)	0.22 (U)	68.1 (U)	0.104 (J)	0.578	17.8	39.8 (J+)
1050 (J+)	340	0.0531	4.27	2.23	0.00268 (U)	1040 (J+)	1.34 (U)	0.609 (U)	76.5 (J-)	0.268 (U)	1.72	10	49.9 (J+)
901 (J+)	365	0.00927 (U)	3.75	1.44	0.00214 (U)	861 (J+)	1.04 (U)	0.524 (U)	60.3 (J-)	0.209 (U)	0.437	12	40.1 (J+)
1350 (J+)	356	0.582	3.65	54.1	0.027	1410 (J+)	1.04 (U)	348	93.1 (J-)	0.137 (J)	5.2	22.5	89.7 (J+)
1340 (J+)	335	0.815	3.85	20.4	0.0216	1540 (J+)	1.07 (U)	338	85 (J-)	0.163 (J)	5.96	23.3	74.9 (J+)
2040 (J+)	587	0.297	53	19.9	0.0304	2590 (J+)	1.35 (UJ)	32.4	503	0.271 (U)	2.23	14.6	1320
824 (J+)	126	0.131	4.05	4.07	0.00801	721 (J+)	0.635 (J-)	85.9	269	0.213 (U)	1.36	10.9	235
1830 (J+)	88.4	0.366	3.36	540	0.688	1570 (J+)	0.971 (U)	215	1000	0.101 (J)	5.15	13.4	58.3
1040 (J+)	90.4	0.309	2.9	131	0.212	893 (J+)	1.04 (U)	199	331 (J)	0.0856 (J)	4.36	10.5	49.5
900 (J+)	118	0.461	6.1	1.92	0.0126	851 (J+)	1.34 (U)	102	120 (J)	0.143 (J)	10.4	12.6	74.2
1040 (J+)	78.1	0.254	2.87	1.07 (U)	0.0117	846 (J+)	1.04 (U)	302	180 (J)	0.095 (J)	4.73	14.6	53.2
1690 (J+)	860	0.139	5.89	3.36	0.00715	1790 (J+)	1.38 (U)	6.49	102 (J-)	0.0995 (J)	2.2	15.4	56.7 (J+)
987 (J+)	418	0.0378	4.48	5.08	0.0111	964 (J+)	1.15 (U)	1.03	78.4 (J-)	0.23 (U)	0.6	10	39.8 (J+)
1760 (J+)	232	0.0162	7.23	—	0.00225 (U)	1690 (J+)	1.11 (U)	0.22 (J)	105	0.245	1.44	26.5	22.6
1640 (J+)	208	0.0123	5.92	—	0.00216 (U)	1410 (J+)	1.06 (U)	0.369 (J)	232	0.137 (J)	0.47	13.1	33.5
1750 (J+)	301	0.014	9.28	—	0.00252 (U)	1710 (J+)	1.26 (U)	0.318 (J)	81.7	0.387	4.07	32.4	26.7
1970 (J+)	346	0.0314	7.45	—	0.000754 (J)	1680 (J+)	1.07 (U)	0.463 (J)	228	0.175 (J)	0.398	15.3	34.6
1350 (J+)	323	0.0138 (U)	5.88	—	0.00235 (U)	1300	1.13 (U)	0.322 (J)	71.1	0.212 (J)	1.29	23.5	20.2
1480 (J+)	219	0.00847 (J)	5.23	—	0.00218 (U)	1340	1.03 (U)	0.465 (J)	182	0.141 (J)	0.489	14.3	28.5
1440 (J+)	295	0.0128	5.64	—	0.00233 (U)	1380	1.13 (U)	0.318 (J)	73.1	0.244	1.69	23.9	23.9
1860 (J+)	233	0.0148	6.46	—	0.00241	1460	1.04 (U)	0.394 (J)	294	0.196 (J)	0.631	15.6	31
1490 (J+)	354	0.0121 (J)	6.94	—	0.00226 (U)	1410	1.1 (U)	0.184 (J)	76.7	0.258	2	23.9	22.6
2100 (J+)	226	0.0247	9.26	—	0.00222 (U)	1540	1.09 (U)	0.364 (J)	204	0.169 (J)	0.627	16.9	33.3
1710 (J+)	303	0.0182	6.47	—	0.00233 (U)	1680 (J+)	1.15 (U)	0.269 (J)	79.9	0.208 (J)	3.13	30	28.3

2450 (J+)	256	0.0281	7.47	—	0.00226 (U)	2200 (J+)	1.11 (U)	0.555	234	0.195 (J)	0.702	25.5	32.9
1380 (J+)	286	0.0101 (J)	5.73	—	0.00215 (U)	1110 (J+)	1.04 (U)	0.299 (J)	84.7	0.17 (J)	0.799	23.8	22.5 (J)
2010 (J+)	305	0.0196	7.55	—	0.00164 (J)	1760 (J+)	1.06 (U)	0.305 (J)	94	0.198 (J)	1.13	29.3	22.9 (J)
1770 (J+)	352	0.00924 (J)	6.15	—	0.00216 (U)	1180 (J+)	1.08 (U)	0.488 (J)	111	0.156 (J)	2.55	26.9	24 (J)
1710 (J+)	197	0.0167	6.02	—	0.00218 (U)	1560 (J+)	1.08 (U)	0.362 (J)	179	0.12 (J)	0.823	18.8	31.1
1810 (J+)	317	0.0158	6.61	—	0.00224 (U)	1240 (J+)	1.05 (U)	0.445 (J)	120	0.162 (J)	1.36	27.8	24.3 (J)
2310 (J+)	246	0.0261	7.88	—	0.00222 (U)	1960 (J+)	1.09 (U)	0.387 (J)	265	0.189 (J)	0.72	21.5	28.5
1620 (J+)	1070	0.0159	6.28	—	0.00221 (U)	1740 (J+)	1.09 (U)	0.431 (J)	81.3	0.181 (J)	1.15	30.8	26.4 (J)
2660 (J+)	288	0.0266	10.2	—	0.000655 (J)	2410 (J+)	1.09 (U)	0.543 (J)	252	0.268	0.795	25.5	31.4
1820 (J+)	265	0.0244	7.43	—	0.00222 (U)	1600 (J+)	1.09 (UJ)	0.546 (U)	183	0.217 (J)	0.937	29.7	21.8
1340 (J+)	363	0.00976 (J)	5.03	—	0.0019 (J)	1410 (J+)	1.01 (UJ)	0.523 (U)	78.1 (U)	0.158 (J)	0.641	28	21
1320 (J+)	272	0.0132 (U)	4.94	—	0.00221 (U)	945 (J+)	1.05 (UJ)	0.543 (U)	132	0.079 (J)	1.71	22.5	16.4
730 (J+)	233	0.0126 (U)	2.64	—	0.0022 (U)	729 (J+)	1.08 (UJ)	0.543 (U)	217	0.215 (U)	0.298	9.67	29.1
2630 (J+)	333	0.0146	6.01	—	0.00233 (U)	950 (J+)	1.12 (UJ)	0.555 (U)	115 (U)	0.101 (J)	1.43	31.7	33.3
1010 (J+)	221	0.0128	4.5	—	0.00223 (U)	817 (J+)	1.1 (UJ)	0.558 (U)	213	0.0724 (J)	0.371	11.1	34
950 (J+)	354	0.00544 (J)	4.38	—	0.00215 (U)	764 (J+)	1 (UJ)	0.535 (U)	79.5 (U)	0.0806 (J)	0.668	19.8	34.8
902 (J+)	267	0.0118 (U)	4.64	—	0.00208 (U)	695 (J+)	0.997 (UJ)	0.495 (U)	269	0.199 (U)	0.316	10.4	33.6
1680 (J+)	306	0.0134	5.87	—	0.00223 (U)	1510 (J+)	1.08 (UJ)	0.555 (U)	54.5 (U)	0.167 (J)	2.35	27.9	22.7
1340 (J+)	286	0.0322	6.08	—	0.00213 (U)	1040 (J+)	1.03 (UJ)	0.533 (U)	216	0.119 (J)	0.345	14.3	34.3
1570	322	0.00551 (J)	7.3	—	0.00224 (U)	997	1.07 (U)	2.56	237	0.0886 (J)	3.86	20.5	38.2
2610	222	0.0197	8.15	—	0.00117 (J)	2490	1.11 (U)	0.557	283	0.225	0.596 (U)	25	28.8
2320	223	0.0224	8.5	—	0.00243 (U)	2100	1.12 (U)	0.538 (J)	115	0.201 (J)	1.33 (U)	28.1	25.2
1880	323	0.0139	6.25	—	0.00215 (U)	1520	1.07 (U)	0.618	125	0.169 (J)	2.38 (U)	26.7	22.6
1990	273	0.0205	6.5	—	0.0023 (U)	1690	1.14 (U)	0.629	143	0.175 (J)	1.63 (U)	27.8	24.5
2500	221	0.0272	7.09	—	0.0012 (J)	2060	1.11 (U)	0.638	356	0.173 (J)	0.578 (U)	19.2	33.3
1980	345	0.0148	7.08	—	0.00223 (U)	2000	0.949 (U)	0.452 (J)	127	0.204	1.91 (U)	30.9	54.9
2490	251	0.0249	9.04	—	0.00104 (J)	2390	1.12 (U)	0.56 (J)	288	0.238	1.46 (U)	28.7	37.3
1890	367	0.0135	9.29	—	0.00226 (U)	1360	1.1 (U)	0.431 (J)	122	0.154 (J)	2.86 (U)	27.7	23
2320	228	0.0224	8.43	—	0.00225 (U)	2380	1.12 (U)	0.494 (J)	159	0.194 (J)	0.967 (U)	24.9	28.3
1360	335 (J)	0.0158 (U)	11.9	—	0.00267 (U)	1020 (J+)	1.33 (U)	0.43 (J)	123	0.108 (J)	1.62	22	31.3
1580	323 (J)	0.0118 (U)	7.67	—	0.00224 (U)	1410 (J+)	1.09 (U)	0.446 (J)	77.2	0.2 (J)	1.38	19.8	18.8
2160	484 (J)	0.00497 (J)	7.42	—	0.00226 (U)	2230 (J+)	1.1 (U)	0.278 (J)	64.7	0.193 (J)	1.6	28.6	27.7
2590	386 (J)	0.00899 (J)	8.32	—	0.00224 (U)	2210 (J+)	1.08 (U)	0.142 (J)	113	0.252	0.994	33.1	30.6
1990	431 (J)	0.00527 (J)	8.03	—	0.00241 (U)	1910 (J+)	1.15 (U)	0.36 (J)	72.6	0.196 (J)	2.77	26.5	34
2480	421 (J)	0.00632 (J)	8.15	—	0.0022 (U)	2260 (J+)	1.07 (U)	0.377 (J)	132	0.203 (J)	1.02	29.7	28.7
2130	439 (J)	0.0144 (U)	8.18	—	0.00197 (J)	2580 (J+)	1.27 (U)	0.398 (J)	62.8	0.156 (J)	2.16	27.3	28.2
2540	424 (J)	0.00837 (J)	8.57	—	0.00124 (J)	2280 (J+)	1.12 (U)	0.385 (J)	132	0.227	1.12	30.5	30.1
2530	392 (J)	0.00578 (J)	8.62	—	0.00248 (U)	2260 (J+)	1.2 (U)	0.393 (J)	128	0.217 (J)	1.15	31.3	29.2
2160	445 (J)	0.00828 (J)	7.2	—	0.00226 (U)	1890 (J+)	1.11 (U)	0.457 (J)	89.7	0.211 (J)	0.828	26.1	27.3
1710	339	0.0163	7.31	1.49	0.00254 (U)	1310	0.902 (J-)	0.636 (U)	54.4 (U)	0.287	1.28	24.8	24.1
2200	327	0.0258	3.95	1.3	0.00188 (J)	1420	1.11 (UJ)	0.543 (U)	156	0.143 (U)	0.525	31	25
1440	370	0.013 (J)	6.79	1.29 (U)	0.00258 (U)	1430	1.24 (UJ)	0.645 (U)	49.2 (U)	0.239 (J)	0.956	24.9	21.5
2070	213	0.0223	10.7	1.41	0.00125 (J)	1460	1.13 (UJ)	0.558 (U)	147	0.301	1.01	24.9	21.6
1650	283	0.0125 (J)	7.35	1.82	0.00135 (J)	1660	1.32 (UJ)	0.653 (U)	45.1 (U)	0.27	1.94	21.6	27.9
1800	268	0.0208	7.21	1.56	0.00229 (U)	1470	1.13 (UJ)	0.568 (U)	98.6	0.238	0.722	25.3	21.8
1130	217	0.0101 (J)	4.48	1.18 (U)	0.00236 (U)	998	1.13 (UJ)	0.584 (U)	70.2 (U)	0.142 (U)	1.21	17.6	22.5
2310	394	0.0236	8.32	1.56	0.00135 (J)	1650	1.25 (UJ)	0.629 (U)	124	0.276	1.06	27.8	25

1520	376	0.0116 (J)	6.69	1.33 (U)	0.00273 (U)	1480	1.36 (UJ)	0.662 (U)	52.3 (U)	0.275	1.18	23.8	24.6
1760	285	0.0241	7.19	1.49	0.00253 (U)	1420	1.22 (UJ)	0.626 (U)	75.3 (U)	0.242 (J)	1.28	24.7	21.3
1050 (J+)	576	0.232	5.55	4.43	0.000991 (J)	1120 (J+)	1.39 (U)	4.32	69.4 (J-)	0.126 (J)	3.89	10.6	45 (J+)
972 (J+)	493	0.0713	4.4	2.43	0.000926 (J)	961 (J+)	0.955 (U)	2.96	60.6 (J-)	0.0862 (J)	1.17	10.4	44.8 (J+)
932 (J+)	487	0.109	5.75	1.67 (U)	0.00334 (U)	979 (J+)	1.56 (U)	0.663 (U)	59.1 (U)	0.311 (U)	2.26	9.19	41.6 (J+)
1660 (J+)	365	0.0336 (U)	5.51	1.73	0.000642 (J)	1540 (J+)	1.1 (U)	0.22 (U)	68.1 (U)	0.104 (J)	0.578	17.8	39.8 (J+)
1050 (J+)	340	0.0531	4.27	2.23	0.00268 (U)	1040 (J+)	1.34 (U)	0.609 (U)	76.5 (J-)	0.268 (U)	1.72	10	49.9 (J+)
901 (J+)	365	0.00927 (U)	3.75	1.44	0.00214 (U)	861 (J+)	1.04 (U)	0.524 (U)	60.3 (J-)	0.209 (U)	0.437	12	40.1 (J+)
1350 (J+)	356	0.582	3.65	54.1	0.027	1410 (J+)	1.04 (U)	348	93.1 (J-)	0.137 (J)	5.2	22.5	89.7 (J+)
1340 (J+)	335	0.815	3.85	20.4	0.0216	1540 (J+)	1.07 (U)	338	85 (J-)	0.163 (J)	5.96	23.3	74.9 (J+)
2040 (J+)	587	0.297	53	19.9	0.0304	2590 (J+)	1.35 (UJ)	32.4	503	0.271 (U)	2.23	14.6	1320
824 (J+)	126	0.131	4.05	4.07	0.00801	721 (J+)	0.635 (J-)	85.9	269	0.213 (U)	1.36	10.9	235
1830 (J+)	88.4	0.366	3.36	540	0.688	1570 (J+)	0.971 (U)	215	1000	0.101 (J)	5.15	13.4	58.3
1040 (J+)	90.4	0.309	2.9	131	0.212	893 (J+)	1.04 (U)	199	331 (J)	0.0856 (J)	4.36	10.5	49.5
900 (J+)	118	0.461	6.1	1.92	0.0126	851 (J+)	1.34 (U)	102	120 (J)	0.143 (J)	10.4	12.6	74.2
1040 (J+)	78.1	0.254	2.87	1.07 (U)	0.0117	846 (J+)	1.04 (U)	302	180 (J)	0.095 (J)	4.73	14.6	53.2
1690 (J+)	860	0.139	5.89	3.36	0.00715	1790 (J+)	1.38 (U)	6.49	102 (J-)	0.0995 (J)	2.2	15.4	56.7 (J+)
987 (J+)	418	0.0378	4.48	5.08	0.0111	964 (J+)	1.15 (U)	1.03	78.4 (J-)	0.23 (U)	0.6	10	39.8 (J+)
2740	520	0.11 (U)	10.9	—	—	2840	0.56 (U)	0.64 (U)	129 (U)	0.66 (U)	3.17	28.6 (J)	34.8
2460	371	0.27 (J)	9.6	—	—	2500	0.55 (U)	0.63 (U)	115 (U)	0.65 (U)	66.3	26.7 (J)	35.3
1840	337 (J)	0.016 (U)	10.7 (J+)	—	0.00298 (U)	1800 (J+)	—	0.746 (U)	44.7 (U)	0.259 (J)	10.4	24.5	25.3
2330	324 (J)	0.0134	8.87 (J+)	—	0.000597 (J)	1760 (J+)	—	0.55 (U)	121	0.217 (J)	1.03	29.1	27.3
2050	797 (J)	0.0428	10.6 (J+)	—	0.00357 (U)	2040 (J+)	—	0.883 (U)	50.3 (U)	0.226 (J)	23.8	23.8	43.4
2790	359 (J)	0.0223	10.9 (J+)	—	0.00235 (U)	1410 (J+)	—	0.584 (U)	114 (U)	0.249	1.17	28.1	26
1580	325 (J)	0.011 (J)	8.14 (J+)	—	0.0028 (U)	1490 (J+)	—	0.653 (U)	55.4 (U)	0.23 (J)	11.8	22	28.5
2110	441 (J)	0.014	9.87 (J+)	—	0.000695 (J)	1940 (J+)	—	0.531 (U)	67.6 (U)	0.242	29.5	30.8	34.5
2010	458 (J)	0.0114 (J)	8.21 (J+)	—	0.00276 (U)	1990 (J+)	—	0.674 (U)	68.2 (U)	0.183 (J)	18.9	30.5	30.2
2910	269 (J)	0.0103 (J)	11.2 (J+)	—	0.00225 (U)	1890 (J+)	—	0.561 (U)	307	0.246	0.898	31.2	27.2
1960	365	0.00901 (J)	7.4	—	0.0028 (U)	2220 (J+)	1.26 (U)	0.619 (J)	177	0.203 (J)	4.65	31.8	32
1800	324	0.0167	7.01	—	0.00252 (U)	1620 (J+)	1.16 (U)	0.658	203	0.184 (J)	1.59	25.2	23.7
1910	361	0.0121 (J)	7.57	—	0.00258 (U)	2090 (J+)	1.28 (U)	0.801	231	0.237 (J)	3.95	26.8	26.2
2190	373	0.0172	7.76	—	0.00259 (U)	1800 (J+)	1.19 (U)	0.645	274	0.231 (J)	0.843	28.4	26.7
1780	335	0.0174	7.95	—	0.00257 (U)	1900 (J+)	1.27 (U)	0.617 (J)	211	0.226 (J)	4.62	26.5	28.2
1740	206	0.0181	6.13	—	0.00282 (U)	1450 (J+)	1.28 (U)	0.577 (J)	209	0.145 (J)	0.867	21.6	19.6
2010	334	0.0181	7.68	—	0.00262 (U)	2460 (J+)	1.27 (U)	0.723	59.6 (U)	0.23 (J)	6.14	24.9	27.8
2040	368	0.0146	8.29	—	0.00228 (U)	1840 (J+)	1.07 (U)	0.417 (J)	71.2 (U)	0.247	1.06	27.6	25
1660 (J+)	312	0.00479 (J)	8.38	—	0.00257 (U)	1710	1.2 (U)	0.644 (U)	91.1	0.167 (J)	7.73	23	39.7
2290 (J+)	364	0.00797 (J)	9.06	—	0.000892 (J)	1840	1.1 (U)	0.536 (U)	94.7	0.24	0.908	27.9	27.9
1740	334	0.0145 (J)	7.58	—	0.0026 (U)	2010 (J+)	1.26 (U)	0.547 (J)	67.5 (U)	0.217 (J)	5.2	23.5	25
1770	204	0.0155	7.04	—	0.00262 (U)	1510 (J+)	1.23 (U)	0.49 (J)	112	0.21 (J)	2.15	21.4	20.2
2050 (J+)	693	0.00627 (J)	8.66	—	0.00283 (U)	2310	1.35 (U)	0.688 (U)	52.7 (U)	0.205 (J)	17.4	29.1	38.2
2770 (J+)	440	0.0103 (J)	10.9	—	0.000928 (J)	1910	1.1 (U)	0.552 (U)	82.9	0.288	1.14	30.1	31.8
2030 (J+)	418	0.0151 (U)	9.31	—	0.00297 (U)	1930	1.48 (U)	0.711 (U)	53.6 (U)	0.227 (J)	8.52	27.4	33.9
2400 (J+)	422	0.0113 (J)	9.63	—	0.0022 (U)	1960	1.1 (U)	0.539 (U)	60.8	0.229	1.59	30	30.3
1900 (J+)	405	0.0172 (U)	9.45	—	0.00311 (U)	2100	1.48 (U)	0.767 (U)	62.6 (U)	0.217 (J)	6.4	25.1	28.3
2280 (J+)	354	0.0108 (J)	10.6	—	0.00224 (U)	1740	1.12 (U)	0.54 (U)	78.5	0.235	1.1	27.5	27

1120 (J+)	224	0.00652 (J)	5.37	—	0.00149 (J)	1290	1.17 (U)	0.56 (U)	52 (U)	0.117 (J)	7.65	14.3	27.2
2160 (J+)	310	0.0117 (J)	11	—	0.000618 (J)	1760	1.09 (U)	0.557 (U)	96.9	0.268	1.5	25.4	26
2770	408	0.0371	12.9 (J)	—	0.00245 (U)	2200 (J+)	1.12 (UJ)	0.595 (U)	104 (U)	0.217	—	34.7	36.1
3460	349	0.0239	12.6 (J)	—	0.00229 (U)	2320 (J+)	1.08 (UJ)	0.543 (U)	281	0.23	—	32.6	54.5
1200	202	0.0124 (U)	5.04 (J)	—	0.00239 (U)	828 (J+)	1.18 (UJ)	0.579 (U)	54.4 (U)	0.22 (U)	—	17.2	27.6
2470	429	0.0128	10.9 (J)	—	0.00231 (U)	1780 (J+)	1.08 (UJ)	0.573 (U)	84.8 (U)	0.223	—	34	30.6
2330	344	0.0148 (J)	10.6 (J)	—	0.00259 (U)	2090 (J+)	1.26 (UJ)	14.7	101 (U)	0.192 (J)	—	30.8	37.5
2120	338	0.0141	9.69 (J)	—	0.00242 (U)	1620 (J+)	1.11 (UJ)	0.591 (U)	231	0.181 (J)	—	24.7	35.7
2100	345	0.0154	10.3 (J)	—	0.00229 (U)	1910 (J+)	1.12 (UJ)	0.531 (U)	55 (U)	0.172 (J)	—	30	31.6
2180	326	0.0233	10.5 (J)	—	0.00224 (U)	1570 (J+)	1.1 (UJ)	0.559 (U)	104 (U)	0.223	—	11.8	36.2
1980	370	0.0103 (J)	8.67 (J)	—	0.00226 (U)	1660 (J+)	1.07 (UJ)	0.527 (U)	65.6 (U)	0.137 (J)	—	30	31.4
2680	383	0.0194	16.8	—	0.00239 (U)	1760 (J+)	1.14 (UJ)	0.55 (U)	94.1 (U)	0.178 (J)	—	31.4	54.3
2070	238	0.0134 (U)	4.83 (J)	—	0.00223 (U)	553 (J+)	1.1 (UJ)	0.529 (U)	73.8 (U)	0.199 (U)	—	21.5	28.2
2060	345	0.0136	8.06 (J)	—	0.00216 (U)	1450 (J+)	1.02 (UJ)	0.539 (U)	126	0.113 (J)	—	23.9	34.7
820	155	0.0123 (U)	4.65 (J)	—	0.0023 (U)	498 (J)	1.12 (UJ)	0.557 (U)	44.6 (U)	0.228 (U)	—	13.3	24
1940	387	0.00758 (J)	9.16 (J)	—	0.00229 (U)	1550 (J+)	1.08 (UJ)	0.538 (U)	92.5 (U)	0.172 (J)	—	31.6	29.9
2500	394	0.014 (J)	1.5 (J)	—	0.00253 (U)	2170 (J+)	1.19 (UJ)	0.623 (U)	84.8 (U)	0.179 (J)	—	32.7	29.6
2920	355	0.0257	9.86 (J)	—	0.00224 (U)	2350 (J+)	1.06 (UJ)	0.552 (U)	89.6 (U)	0.192 (J)	—	34.8	34.2
1850	377	0.017	9.26 (J)	—	0.00296 (U)	1910 (J+)	1.32 (UJ)	0.727 (U)	37.2 (U)	0.176 (J)	—	11.7	30.2
1860	365	0.0139	6.92 (J)	—	0.00213 (U)	1450 (J+)	1.04 (UJ)	0.526 (U)	62.6 (U)	0.301	—	24.3	32.6
1890	376	0.00906 (J)	0.849 (U)	—	0.00314 (U)	1840 (J+)	1.46 (UJ)	0.779 (U)	55.8 (U)	0.151 (J)	—	24.8	108
2230	331	0.0147	1.3 (U)	—	0.00241 (U)	1810 (J+)	1.12 (UJ)	0.568 (U)	89.1 (U)	0.148 (J)	—	28.9	77.5
1700 (J+)	315 (J)	0.0144 (J)	6.8	—	0.00311 (U)	1690 (J+)	1.48 (U)	0.203 (J)	77 (U)	0.214 (J)	—	23.4	29.2
2480 (J+)	365 (J)	0.0213	9.28	—	0.00226 (U)	2110 (J+)	1.11 (U)	0.286 (J)	99.9 (U)	0.291	—	33.2	30.6
637 (J+)	281 (J)	0.017	4.85	—	0.00273 (U)	714 (J+)	1.35 (U)	0.188 (J)	84.8 (U)	0.144 (J)	—	8.99	39.5
2610 (J+)	329 (J)	0.0172	12	—	0.000619 (J)	2300 (J+)	1.11 (U)	0.308 (J)	273 (J)	0.293	—	31.8	32.9
2610 (J+)	345 (J)	0.0123 (J)	10.5	—	0.00265 (U)	2320 (J+)	1.31 (U)	0.416 (J)	277 (J)	0.284	—	34.6	32.9
2730 (J+)	296 (J)	0.0186	9.3	—	0.00247 (U)	2380 (J+)	1.22 (U)	0.491 (J)	105 (U)	0.216 (J)	—	32.1	31.3
2120 (J+)	525 (J)	0.0104 (J)	6.26	—	0.00259 (U)	2310 (J+)	1.24 (U)	0.528 (J)	77 (U)	0.145 (J)	—	31.3	41
2700 (J+)	312 (J)	0.0198	10.3	—	0.00234 (U)	2230 (J+)	1.13 (U)	0.24 (J)	229 (J)	0.289	—	29.7	30.8
1380 (J+)	271 (J)	0.00531 (J)	6.11	—	0.00258 (U)	1310 (J+)	1.29 (U)	0.244 (J)	80 (U)	0.137 (J)	—	17.9	32
3080 (J+)	408 (J)	0.0244	9.82	—	0.000579 (J)	2490 (J+)	1.08 (U)	0.246 (J)	136 (J)	0.228	—	33.1	34.1
3190 (J+)	445 (J)	0.0133 (U)	11.1	—	0.00237 (U)	2540 (J+)	1.17 (U)	0.196 (J)	136 (J)	0.254	—	34.6	36.2
2660 (J+)	303 (J)	0.0154	9.31	—	0.00226 (U)	1990 (J+)	1.1 (U)	0.354 (J)	121 (J)	0.321	—	30.1	29.3
2610 (J+)	317 (J)	0.0119 (U)	3.56	—	0.00235 (U)	2400 (J+)	1.12 (U)	0.287 (J)	128 (J)	0.0691 (J)	—	29.4	30.2
1830 (J+)	240 (J)	0.0136 (U)	3.75	—	0.00226 (U)	608 (J+)	1.13 (U)	0.229 (J)	113 (J)	0.225 (U)	—	15.7	32.2
1210 (J+)	246 (J)	0.015 (U)	6.32	—	0.0026 (U)	1190 (J+)	1.24 (U)	0.265 (J)	76.8 (U)	0.143 (J)	—	18.9	42.3
2460 (J+)	358 (J)	0.0163	10.2	—	0.00236 (U)	2170 (J+)	1.18 (U)	0.663	89.4 (U)	0.256	—	30.6	35.8
1820 (J+)	279 (J)	0.00473 (J)	7.5	—	0.00243 (U)	1620 (J+)	1.16 (U)	0.338 (J)	121 (J)	0.168 (J)	—	23.5	29.8
2390 (J+)	287 (J)	0.0209	10.1	—	0.00226 (U)	2180 (J+)	1.1 (U)	0.48 (J)	266 (J)	0.297	—	30.7	29.3
1430 (J+)	241 (J)	0.0133 (U)	7.2	—	0.00244 (U)	834 (J+)	1.21 (U)	0.506 (J)	134 (J)	0.116 (J)	—	12.6	27
1070 (J+)	195 (J)	0.0114 (J)	13.2	—	0.00232 (U)	635 (J+)	1.16 (U)	0.153 (J)	119 (J)	0.332	—	14.6	33.4
1240 (J+)	242 (J+)	0.0144 (UJ)	4.94	—	0.00252 (U)	1090 (J+)	1.23 (U)	0.578 (UJ)	83 (U)	0.0842 (J)	—	18.8 (J)	23.5 (J+)
1890 (J+)	282 (J+)	0.0188	11.5	—	0.00235 (U)	1690 (J+)	2.11 (U)	0.508 (UJ)	71.9	0.278	—	26.6 (J)	24.5 (J+)
749 (J+)	177 (J+)	0.0143	5.23	—	0.000831 (J)	726 (J+)	1.17 (U)	0.743	116	0.107 (J)	—	9.99 (J)	206 (J+)
2400 (J+)	364 (J+)	0.0192	9.15	—	0.0017 (J)	2060 (J+)	1.05 (U)	0.515 (UJ)	1030	0.223	—	30.9 (J)	37.2 (J+)
1480	614	0.0109 (J)	5.92	—	0.000576 (J)	1050 (J+)	1.03 (U)	0.308 (J)	273 (J+)	0.132 (U)	—	12.2	43

180	256	0.0111 (U)	1.12	—	0.000838 (J)	274 (J+)	0.977 (U)	0.211 (J)	229 (J+)	0.195 (U)	—	2.96	49.8
695	236	0.00507 (J)	4.49	—	0.00462	525 (J+)	1.05 (U)	0.192 (J)	124 (J+)	0.21 (U)	—	6.67	42.1
529	223	0.0114 (U)	1.74	—	0.00141 (J)	377 (J+)	0.933 (U)	0.192 (J)	68.8 (J+)	0.187 (U)	—	5.11	42.6
287	207	0.0107 (U)	0.668	—	0.000587 (J)	247 (J+)	0.975 (U)	0.487 (U)	99.5 (J+)	0.195 (U)	—	2.71	40.8
111 (J+)	202	0.0104 (UJ)	0.95 (J-)	—	0.00203 (U)	138 (J+)	1.01 (UJ)	0.165 (J)	69	0.202 (UJ)	—	2.3	43.1
129 (J+)	222	0.0114 (UJ)	0.635 (J-)	—	0.00203 (U)	124 (J+)	0.985 (UJ)	0.121 (J)	58.5	0.197 (UJ)	—	2.17	46.1
635 (J+)	325	0.0116 (UJ)	0.678 (J-)	—	0.00204 (U)	536 (J+)	1.02 (UJ)	0.162 (J)	161	0.203 (UJ)	—	3.86	59.4
306 (J+)	248	0.0104 (UJ)	1.2 (J-)	—	0.00204 (U)	360 (J+)	0.944 (UJ)	0.114 (J)	147	0.189 (UJ)	—	3.28	40.7
166 (J+)	357	0.0113 (UJ)	0.952 (J-)	—	0.00206 (U)	287 (J+)	1 (UJ)	0.647	162	0.201 (UJ)	—	2.77	44.8
632 (J+)	194	0.0105 (J+)	3.53 (J-)	—	0.00206 (U)	438 (J+)	1.03 (UJ)	0.111 (J)	50.7	0.0832 (J-)	—	4.35	40.5
722 (J+)	243	0.0128 (UJ)	2.5 (J-)	—	0.0022 (U)	545 (J+)	1.05 (UJ)	0.128 (J)	58.9	0.0659 (J-)	—	4.98	44.4
777 (J+)	297	0.0167 (J+)	2.43 (J-)	—	0.00214 (U)	578 (J+)	1.07 (UJ)	0.153 (J)	57.1	0.214 (UJ)	—	5.7	50.3
264	247	0.0117 (U)	1.72	—	0.00202 (U)	368 (J+)	1.01 (U)	0.498 (U)	223 (J+)	0.202 (U)	—	2.63	35.6
157	183	0.0111 (U)	0.87	—	0.00205 (U)	307 (J+)	0.998 (U)	0.513 (U)	237 (J+)	0.2 (U)	—	1.77	33.8
158	236	0.012 (U)	0.524	—	0.00213	394 (J+)	0.961 (U)	0.498 (U)	295 (J+)	0.192 (U)	—	1.91	35.2
213	262	0.0118 (U)	2.26	—	0.000533 (J)	424 (J+)	0.939 (U)	0.467 (U)	292 (J+)	0.188 (U)	—	2.4	43.1
138	175	0.0114 (U)	0.573	—	0.00202 (U)	391 (J+)	0.965 (U)	0.471 (U)	258 (J+)	0.193 (U)	—	1.5	34.1
133	203	0.0115 (U)	0.421	—	0.00201 (U)	318 (J+)	1 (U)	0.453 (U)	210 (J+)	0.2 (U)	—	2.11	43.2
119	206	0.0114 (U)	0.46	—	0.00202 (U)	327 (J+)	0.955 (U)	0.488 (U)	221 (J+)	0.191 (U)	—	1.61	43
113	201	0.0107 (U)	0.509	—	0.00203 (U)	215 (J+)	0.997 (U)	0.471 (U)	138 (J+)	0.199 (U)	—	1.53	39.8
148	298	0.011 (U)	0.536	—	0.00202 (U)	455 (J+)	0.979 (U)	0.496 (U)	334 (J+)	0.196 (U)	—	1.88	44.3
113	272	0.0104 (U)	0.417	—	0.00203 (U)	509 (J+)	0.96 (U)	0.487 (U)	353 (J+)	0.192 (U)	—	1.44	42.7
126	279	0.0104 (U)	0.493	—	0.00202 (U)	507 (J+)	0.986 (U)	0.476 (U)	365 (J+)	0.197 (U)	—	1.94	45.3
119	266	0.0118 (U)	0.383 (J)	—	0.00203 (U)	442 (J+)	0.987 (U)	0.479 (U)	314 (J+)	0.197 (U)	—	1.76	46
163	317	0.0109 (U)	0.375 (J)	—	0.00202 (U)	437 (J+)	0.941 (U)	0.469 (U)	291 (J+)	0.188 (U)	—	2.11	52.4
157 (J)	213	0.0114 (U)	2.04	—	0.00201 (U)	143 (U)	0.946 (U)	0.452 (U)	50.4 (U)	0.125 (U)	—	2.33	31.2
220 (J)	230	0.0121 (U)	0.986	—	0.00204 (U)	192	0.965 (U)	0.269 (J)	137	0.193 (U)	—	2.38	24.4
130 (J)	177	0.0115 (U)	0.432	—	0.00203 (U)	120 (U)	0.988 (U)	0.102 (J)	94.8 (U)	0.198 (U)	—	2.17	37.3
182 (J)	195	0.0116 (U)	0.433	—	0.00203 (U)	150 (U)	0.99 (U)	0.0991 (J)	138	0.198 (U)	—	1.97	36.7
143	219	0.0121 (U)	0.398	—	0.00204 (U)	523 (J+)	0.918 (U)	0.176 (J)	479 (J+)	0.184 (U)	—	2.09	39.5
136	152	0.0104 (U)	0.486	—	0.00202 (U)	388 (J+)	0.982 (U)	0.488 (U)	288 (J+)	0.196 (U)	—	1.72	35.8
95.2	144	0.0117 (U)	0.474	—	0.00204 (U)	385 (J+)	0.985 (U)	0.507 (U)	309 (J+)	0.197 (U)	—	1.42	32
55	95.1	0.0117 (U)	0.523	—	0.00204 (U)	253 (J+)	0.962 (U)	0.5 (U)	167 (J+)	0.192 (U)	—	3.38	23.4
173	292	0.0107 (U)	0.793	—	0.00204 (U)	496 (J+)	0.982 (U)	0.147 (J)	349 (J+)	0.196 (U)	—	2.64	41.8
167	292	0.0108 (U)	0.404	—	0.00205 (U)	510 (J+)	1.01 (U)	0.125 (J)	349 (J+)	0.201 (U)	—	2.28	41.7
191	337	0.0104 (U)	0.695	—	0.00206 (U)	392 (J+)	0.993 (U)	0.122 (J)	256 (J+)	0.199 (U)	—	2.94	42.1
120	334	0.0116 (U)	0.766	—	0.00204 (U)	450 (J+)	0.957 (U)	0.505 (U)	368 (J+)	0.191 (U)	—	2.09	41
84.3	322	0.0118 (U)	0.355 (J)	—	0.00203 (U)	506 (J+)	0.986 (U)	0.116 (J)	412 (J+)	0.197 (U)	—	2.12	46.8
465 (J+)	245 (J+)	0.00376 (J)	1.46	—	0.00203 (U)	508 (J+)	0.965 (U)	0.496 (U)	355	0.193 (U)	—	3.58	35.8 (J+)
107 (J+)	195 (J+)	0.0121 (U)	0.516	—	0.00202 (U)	513 (J+)	1.01 (U)	0.5 (U)	430	0.202 (U)	—	1.75	36.4 (J+)
155 (J+)	257 (J+)	0.0115 (U)	0.655	—	0.00203 (U)	549 (J+)	0.992 (U)	0.49 (U)	455	0.198 (U)	—	2.36	41.6 (J+)
148 (J+)	202 (J+)	0.0118 (U)	0.717	—	0.00203 (U)	557 (J+)	0.99 (U)	0.495 (U)	500	0.198 (U)	—	1.88	36.6 (J+)
297 (J+)	306 (J+)	0.0114 (U)	0.614	—	0.00205 (U)	600 (J+)	1.01 (U)	0.509 (U)	554	0.202 (U)	—	2.95	53.6 (J+)
103 (J+)	168 (J+)	0.0113 (U)	0.313 (J)	—	0.00202 (U)	346 (J+)	0.96 (U)	0.479 (U)	246	0.192 (U)	—	1.6	41.3 (J+)
234 (J+)	250 (J+)	0.011 (U)	0.397	—	0.00203 (U)	503 (J+)	0.964 (U)	0.469 (U)	382	0.193 (U)	—	2.05	53.3 (J+)
189	274 (J)	0.0115 (U)	0.606	—	0.00205 (U)	305 (J+)	0.961 (U)	0.192 (J)	227 (J+)	0.192 (U)	—	1.88 (J)	33.8
108	302 (J)	0.0121 (U)	0.361 (J)	—	0.00203 (U)	786 (J+)	0.968 (U)	0.139 (J)	604 (J+)	0.194 (U)	—	1.61 (J)	40.4

65.3	248 (J)	0.0116 (U)	0.341 (J)	—	0.00203 (U)	637 (J+)	0.549 (J)	0.224 (J)	464 (J+)	0.201 (U)	—	1.41 (J)	37.6
125	312 (J)	0.0118 (U)	0.413	—	0.00204 (U)	500 (J+)	0.928 (U)	0.484 (U)	349 (J+)	0.186 (U)	—	2.21 (J)	47.2
155	268 (J)	0.0119 (U)	0.579	—	0.00205 (U)	459 (J+)	1 (U)	0.131 (J)	324 (J+)	0.201 (U)	—	2.01 (J)	40.8
126	282 (J)	0.0125 (U)	0.386	—	0.00208 (U)	459 (J+)	0.513 (J)	0.102 (J)	358 (J+)	0.191 (U)	—	2.08 (J)	42.4
162	214 (J)	0.00413 (J)	1.64	—	0.00206 (U)	564 (J+)	1 (U)	0.18 (J)	445 (J+)	0.067 (U)	—	2.67 (J)	33.7
266	257 (J)	0.0117 (U)	0.796	—	0.00212	458 (J+)	1.01 (U)	0.211 (J)	442 (J+)	0.201 (U)	—	3.35 (J)	37.6
394	185 (J)	0.0112 (U)	1.25	—	0.00237	494 (J+)	1.02 (U)	0.21 (J)	366 (J+)	0.204 (U)	—	4.09 (J)	36.3
211 (J+)	184	0.011 (U)	0.646	—	0.00202 (U)	536 (J+)	1 (U)	0.195 (J)	453 (J+)	0.201 (U)	—	1.8	34.3
185 (J+)	183	0.0105 (U)	0.617	—	0.00206 (U)	623 (J+)	0.972 (U)	0.137 (J)	495 (J+)	0.194 (U)	—	1.71	37.3
177 (J+)	183	0.0105 (U)	0.366 (J)	—	0.00203 (U)	488 (J+)	0.989 (U)	0.229 (J)	339 (J+)	0.198 (U)	—	1.62	40.9
112 (J+)	147	0.0109 (U)	0.503	—	0.00203 (U)	366 (J+)	0.98 (U)	0.489 (U)	279 (J+)	0.196 (U)	—	1.23	31.7
426 (J+)	243	0.0113 (U)	0.737	—	0.00206 (U)	267 (J+)	1 (U)	0.496 (U)	145 (U)	0.0606 (U)	—	1.95	31.9
103 (J+)	325	0.0111 (U)	0.642	—	0.00203 (U)	736 (J+)	0.935 (U)	0.149 (J)	538 (J+)	0.187 (U)	—	1.66	57.9
156 (J+)	394	0.0103 (U)	0.742	—	0.00203 (U)	933 (J+)	1.02 (U)	0.298 (J)	654 (J+)	0.203 (U)	—	2.76	43.3
84.1 (J+)	269	0.0114 (U)	0.366 (J)	—	0.00204 (U)	511 (J+)	1.01 (U)	0.484 (U)	368 (J+)	0.202 (U)	—	1.73	39.2
98.1 (J+)	268	0.0106 (U)	0.422	—	0.00204 (U)	510 (J+)	0.961 (U)	0.225 (J)	423 (J+)	0.192 (U)	—	1.85	39.4
110 (J+)	282	0.0121 (U)	0.509	—	0.00204 (U)	464 (J+)	0.989 (U)	0.109 (J)	365 (J+)	0.198 (U)	—	1.99	44.3
940 (U)	185	0.11 (U)	7 (U)	—	—	683 (U)	0.56 (U)	0.64 (U)	120 (U)	0.67 (U)	310	8.9 (U)	77.6
217 (U)	270	0.11 (U)	7 (U)	—	—	325 (U)	0.56 (U)	0.64 (U)	176 (U)	0.66 (U)	19.4	3.2 (U)	25.9
913 (U)	156	0.11 (U)	8.4 (U)	—	—	759 (U)	0.56 (U)	0.65 (U)	98.4 (U)	0.67 (U)	282	7.1 (U)	71.7
333 (U)	195	0.11 (U)	2.8 (U)	—	—	278 (U)	0.57 (U)	0.65 (U)	165 (U)	0.68 (U)	93	3.7 (U)	26.3
902 (U)	102	0.1 (U)	15.9	—	—	454 (U)	0.54 (U)	0.7 (U)	90.9 (U)	0.64 (U)	659	7.8 (J)	60.1
576 (U)	146	1.1 (J)	10.6	—	—	337 (U)	0.58 (U)	1.1 (U)	152 (U)	0.7 (U)	303	4.7 (U)	43.4
863 (U)	140	0.12 (J)	10	—	—	697 (U)	0.55 (U)	0.77 (U)	89.2 (U)	0.65 (U)	400	8.4 (U)	71.2
955 (U)	189	0.11 (U)	5.9 (U)	—	—	763 (U)	0.57 (U)	0.66 (U)	122 (U)	0.68 (U)	31.8	8.8 (U)	28.8
1300 (J+)	174 (J-)	0.0127 (J)	9.64 (J-)	—	0.00266 (U)	860 (J+)	1.32 (U)	0.493 (J)	62 (J)	0.183 (J)	69.6 (J)	17.7	32.6
268 (J+)	220 (J-)	0.00602 (J)	3.69 (J-)	—	0.0023 (U)	301 (J+)	1.15 (U)	0.402 (J)	181 (J)	0.23 (U)	3.75 (J)	2.8	29.9
658 (J+)	196 (J-)	0.013	21 (J-)	—	0.00225 (U)	355 (J+)	1.11 (U)	0.57	56.5 (J)	0.222 (U)	66.9 (J)	8.54	47.5
739 (J+)	199 (J-)	0.013 (U)	6.18 (J-)	—	0.00225 (U)	308 (J+)	1.07 (U)	0.536 (J)	61.3 (J)	0.0845 (J)	82.3 (J)	10.7	50.6
709 (J+)	218 (J-)	0.0074 (J)	6.15 (J-)	—	0.00229 (U)	625 (J+)	1.11 (U)	0.656	56.4 (J)	0.0982 (J)	71.1 (J)	9.73	53.3
347 (J+)	319 (J-)	0.00806 (J)	6.46 (J-)	—	0.00209 (U)	404 (J+)	1.01 (U)	0.552	179 (J)	0.202 (U)	13.3 (J)	4.29	51.8
1210 (J+)	204	0.0203	5.46	—	0.00255 (U)	1400 (J+)	1.17 (UJ)	0.59 (U)	49.9 (U)	0.114 (J)	87.7	15.1	32.8
230 (J+)	229	0.0122 (U)	3.77	—	0.0021 (U)	397 (J+)	0.975 (UJ)	0.499 (U)	190	0.195 (U)	3.88	2.98	34.8
891 (J+)	207	0.00857 (J)	4.52	—	0.00223 (U)	643 (J+)	1.05 (UJ)	0.168 (J)	43.2 (U)	0.0865 (J)	46.4	12.5	41.5
186 (J+)	274	0.0121	4.18	—	0.00209 (U)	361 (J+)	1.02 (UJ)	0.506 (U)	221	0.205 (U)	0.648	3.09	42.4
1210 (J+)	202	0.01 (J)	6.1	—	0.00309 (U)	1130 (J+)	1.52 (UJ)	0.336 (J)	46.6 (U)	0.173 (J)	14.8	18.7	35.9
136	221	0.0144	3.04	—	0.00216 (U)	616 (J+)	1.04 (U)	0.533 (U)	423 (J+)	0.207 (U)	0.606 (U)	2.08	23
701 (J+)	259	0.0209	3.8 (J-)	—	0.00318 (U)	706 (J+)	1.53 (U)	0.731 (U)	70.9 (U)	0.305 (U)	29.5	12	51.6
373 (J+)	192	0.0171	3.85 (J-)	—	0.00229 (U)	365 (J+)	1.11 (U)	0.56 (U)	156	0.221 (U)	0.767	7.35	33.2
1140 (J+)	406	0.0178	4.82	—	0.0029 (U)	1190 (J+)	1.41 (UJ)	0.717 (U)	53.8	0.229 (J)	7.58	17.6	29.8
679 (J+)	272	0.0163	5.16	—	0.00212 (U)	651 (J+)	0.992 (UJ)	0.509 (U)	180	0.0649 (J)	0.598	5.73	51.2
830 (J+)	292	0.0123 (J)	5.31 (J-)	—	0.00299 (U)	824 (J+)	1.43 (U)	0.675 (U)	106 (U)	0.286 (U)	39.8	16.3	72.4
219 (J+)	262	0.00423 (J)	3.98 (J-)	—	0.00214 (U)	394 (J+)	1.03 (U)	0.533 (U)	199	0.205 (U)	1.4	5.39	37.1
1420 (J+)	230	0.0142 (J)	6.73 (J-)	—	0.00299 (U)	1220 (J+)	1.36 (U)	0.725 (U)	88.4 (U)	0.271 (U)	2.54	25.1	31.1
1710 (J+)	207	0.0362	7.47 (J-)	—	0.00123 (J)	1100 (J+)	0.67 (J)	0.528 (U)	392	0.163 (U)	0.534	15.5	35
885 (J+)	226	0.0176 (U)	5.46 (J-)	—	0.00318 (U)	812 (J+)	1.59 (U)	0.768 (U)	77 (U)	0.318 (U)	104	16.1	57.5
1260 (J+)	217	0.0375	6.99 (J-)	—	0.00222 (U)	794 (J+)	0.573 (J)	0.512 (U)	176	0.206 (U)	17.1	12.1	51.9

1660	200	0.01 (J)	7.45	—	0.0027 (U)	1010 (J+)	1.3 (U)	0.159 (J)	123 (J+)	0.127 (J)	213 (J+)	19.2	44
924	210	0.0277	5.92	—	0.000571 (J)	572 (J+)	0.984 (U)	0.487 (U)	198 (J+)	0.0756 (J)	6.79 (J+)	7.52	35.4
712 (J+)	268	0.0157 (U)	4.17	—	0.00278 (U)	724 (J+)	1.37 (U)	0.629 (U)	116 (U)	0.0876 (J)	16.2	11.4	31.8
1020 (J+)	330	0.00504 (J)	3.85	—	0.00274 (U)	954 (J+)	1.35 (U)	0.578 (U)	87.5 (U)	0.0954 (J)	14.9	16	36.2
874 (J+)	237	0.00621 (J)	5.44	—	0.00222 (U)	675 (J+)	1.03 (U)	0.142 (J)	75.7 (U)	0.0673 (J)	2.38	8.28	43.7
764 (J+)	238	0.00849 (J)	4.13	—	0.00213 (U)	519 (J+)	1.05 (U)	0.212 (J)	122 (U)	0.21 (U)	0.813	7.43	47.1
2130 (J+)	205	0.0123 (U)	11.9	—	0.00239 (U)	1630 (J+)	1.07 (U)	0.188 (J)	95.2 (U)	0.208 (J)	36.5	20.8	33.9
2310 (J+)	263	0.015	16.9	—	0.000616 (J)	1800 (J+)	1.11 (U)	0.152 (J)	106 (U)	0.33	15.5	23.1	38.8
2870 (J+)	280	0.00489 (J)	4.78	—	0.00245 (U)	1780 (J+)	1.04 (U)	0.269 (J)	253 (J)	0.105 (J)	4.21	34.8	90
1120 (J+)	280	0.00815 (J)	7.1	—	0.00218 (U)	983 (J+)	0.999 (U)	0.189 (J)	120 (U)	0.16 (J)	1.53	23.8	49.2
1350	371	0.0273	6.48	—	0.00306 (U)	1230 (J+)	1.5 (U)	0.741 (U)	78.4 (J+)	0.144 (J)	17.2	15.5	36.9 (J+)
1130	342	0.0158	4.38	—	0.00237 (U)	994 (J+)	1.15 (U)	0.257 (J)	85.4 (J+)	0.102 (J)	3.07	14.4	33.9 (J+)
1100	498	0.00887 (J)	4.41	—	0.00248 (U)	964 (J+)	1.16 (U)	0.591 (U)	107 (U)	0.078 (J)	5.11	17.3	65 (J)
1120	242	0.0119 (J)	4.86	—	0.00224 (U)	774 (J+)	1.11 (U)	0.529 (U)	83.4 (U)	0.109 (J)	1.07	11.9	53.7 (J)
829 (J+)	181 (J-)	0.0145 (U)	5.37 (J-)	—	0.00256 (U)	570 (J+)	1.25 (U)	0.767	105 (J)	0.25 (U)	30.9 (J)	13.2	35
256 (J+)	231 (J-)	0.0113 (U)	2.35 (J-)	—	0.00222 (U)	215 (J+)	1.07 (U)	0.435 (J)	91.6 (J)	0.214 (U)	5.34 (J)	2.99	20
1160 (J+)	166 (J-)	0.0175	9.4 (J-)	—	0.00247 (U)	775 (J+)	1.18 (U)	0.615 (J)	51 (J)	0.169 (J)	118 (J)	13.5	32.2
383 (J+)	239 (J-)	0.00732 (J)	3.88 (J-)	—	0.00218 (U)	358 (J+)	1.07 (U)	0.541	132 (J)	0.214 (U)	403 (J)	5.3	34.3
1060 (J+)	128 (J-)	0.00487 (J)	7.91 (J-)	—	0.00237 (U)	629 (J+)	1.13 (U)	0.674	61.9 (J)	0.107 (J)	132 (J)	13.3	28.1
215 (J+)	165 (J-)	0.00633 (J)	4.31 (J-)	—	0.00222 (U)	276 (J+)	1.1 (U)	0.439 (J)	146 (J)	0.221 (U)	62.6 (J)	3.01	21.9
807 (J+)	110 (J-)	0.0247	10.2 (J-)	—	0.00227 (U)	336 (J+)	1.14 (U)	2	46.5 (J)	0.227 (U)	348 (J)	12.7	54.8
1090 (J+)	167 (J-)	0.0166	6.26 (J-)	—	0.00231 (U)	592 (J+)	1.12 (U)	0.88	72.5 (J)	0.224 (U)	163 (J)	9.35	33.3
2650 (J+)	232 (J-)	0.0246	16.2 (J-)	—	0.00254 (U)	1740 (J+)	1.22 (U)	0.738	92.7 (J)	0.2 (J)	27.2 (J)	29.7	32
1350 (J+)	257 (J-)	0.0196	6.09 (J-)	—	0.00221 (U)	847 (J+)	1.05 (UJ)	0.976	206 (J)	0.0785 (U)	5.45	10.2 (J)	47.1 (J)
1640 (J+)	220 (J-)	0.00639 (J)	7.02 (J-)	—	0.00245 (U)	1070 (J+)	1.15 (UJ)	1.15	94.6 (J)	0.129 (U)	73.1	19.9	56.1 (J)
148 (J+)	252 (J-)	0.0101 (J)	3.6 (J-)	—	0.00215 (U)	413 (J)	0.977 (UJ)	0.738	241 (J)	0.195 (U)	8.75	1.99 (J)	33.8 (J)
951 (J+)	189 (J-)	0.0146 (J)	5.62 (J-)	—	0.00251 (U)	854 (J+)	1.23 (UJ)	0.688	96.8 (J)	0.14 (U)	2.5	16.5	18.6 (J)
1440 (J+)	202 (J-)	0.0256	7.97 (J-)	—	0.00181 (J)	888 (J+)	1.07 (UJ)	0.574	352 (J)	0.172 (U)	1.31	9.93 (J)	34 (J)
1550 (J+)	250 (J-)	0.023	6.72 (J-)	—	0.00258 (U)	1240 (J+)	1.29 (UJ)	0.917	69.6 (U)	0.137 (U)	38.2	18.4	41 (J)
489 (J+)	382 (J-)	0.00749 (J)	4.74 (J-)	—	0.00208 (U)	583 (J+)	1.04 (UJ)	1.23	229 (J)	0.208 (U)	26.1	5.4 (J)	34.6 (J)
945 (J+)	252 (J-)	0.00869 (J)	5.06 (J-)	—	0.00243 (U)	885 (J+)	1.22 (UJ)	0.697	56.8 (U)	0.0854 (U)	30.9	13.7 (J)	44.6 (J)
1430 (J+)	246 (J-)	0.0264	7.35 (J-)	—	0.000587 (J)	1000 (J+)	1.04 (UJ)	1.26	152 (J)	0.103 (U)	23.5	14.7 (J)	44.2 (J)
553 (J+)	214	0.0162	3.08	—	0.00223 (U)	448 (J+)	1.03 (UJ)	0.513 (U)	51.9 (U)	0.207 (U)	81.3	5.88	35.5
333 (J+)	237	0.0148	3.76	—	0.00207 (U)	383 (J+)	0.951 (UJ)	0.472 (U)	143	0.19 (U)	10.5	5.73	34.6
874 (J+)	169	0.0073 (J)	4.69	—	0.0025 (U)	717 (J+)	1.24 (UJ)	0.316 (J)	42.8 (U)	0.247 (U)	276	13.2	52.4
294 (J+)	231	0.015	3.41	—	0.00213 (U)	325 (J+)	0.961 (UJ)	0.492 (U)	133	0.192 (U)	54.5	4.68	36.7
1230	282	0.0153	7.08	—	0.00265 (U)	1250 (J+)	1.32 (U)	0.771	63.8	0.127 (J)	84.6	16.1	56.8
205	238	0.00991 (J)	2.57	—	0.00207 (U)	225 (J+)	1.04 (U)	0.396 (J)	134	0.207 (U)	1.37	2.86	32.7
2150	419	0.0249	8.61	—	0.00276 (U)	1870 (J+)	0.696 (J)	0.748	70	0.24 (J)	31.8	24.2	41.7
388	279	0.0114 (J)	3.84	—	0.00226 (U)	508 (J+)	1.07 (U)	0.722	222	0.214 (U)	8.68	4.51	33.8
1420 (J+)	321	0.0173	5.76	—	0.00241 (U)	1190 (J+)	1.15 (UJ)	0.603 (U)	76	0.108 (J)	2.26	13	25.9
1040 (J+)	327	0.0169	5.42	—	0.0022 (U)	841 (J+)	0.963 (UJ)	0.545 (U)	203	0.0724 (J)	0.938	7.97	28.5
651 (J+)	177	0.00904 (J)	4.99	—	0.00252 (U)	691 (J+)	1.15 (UJ)	0.563 (U)	26.3 (J)	0.132 (J)	13.8	19.4	13.1 (J)
1740 (J+)	291	0.0158	7.26	—	0.00243	1220 (J+)	1.05 (UJ)	0.536 (U)	325	0.141 (J)	1.18	14.9	28.4
1840 (J+)	226	0.0179	8.31	—	0.00262 (U)	1480 (J+)	1.18 (UJ)	1.68	90.5	0.162 (J)	141	22.7	52.9
323 (J+)	234	0.0188	3.79	—	0.00208 (U)	359 (J+)	0.911 (UJ)	0.519 (U)	137	0.182 (U)	1.85	6.32	46.7
2080 (J+)	738	0.0314	9.3	—	0.00262 (U)	1770 (J+)	1.31 (UJ)	0.653 (U)	71.8	0.208 (J)	27.7	19	35.8

352 (J+)	223	0.0149	5.53	—	0.00207 (U)	320 (J+)	0.966 (UJ)	0.513 (U)	126	0.193 (U)	0.593	4.02	41.3
1230 (J+)	295	0.0305	12	—	0.00263 (U)	1160 (J+)	1.23 (UJ)	0.618 (U)	85.8	0.313	16.5	24.7	18 (J)
832 (J+)	252	0.027	7.31	—	0.00081 (J)	471 (J+)	1 (UJ)	0.503 (U)	292	0.0914 (J)	0.888	7.59	22.5
1160 (J+)	260	0.0156 (U)	4.8 (J-)	—	0.00262 (U)	1230 (J+)	1.22 (U)	0.641 (U)	38.4 (U)	0.245 (U)	26.5	17	32.9
1030 (J+)	188	0.0137	5.18 (J-)	—	0.00225 (U)	771 (J+)	1.11 (U)	0.541 (U)	101	0.223 (U)	0.956	9.96	17.2
197 (J+)	201	0.0165	5.71 (J-)	—	0.00216 (U)	355 (J+)	1.05 (U)	0.522 (U)	196	0.21 (U)	0.638	2.59	24.3
864 (J+)	198	0.0299	7.46 (J-)	—	0.00216 (U)	602 (J+)	1.05 (U)	0.533 (U)	182	0.211 (U)	0.533	8.64	42.2
1090 (J+)	365	0.022	6.13 (J-)	—	0.00329 (U)	973 (J+)	1.63 (U)	0.278 (J)	76.4 (U)	0.325 (U)	46.3	11.6	47.2
352 (J+)	218	0.0108 (J)	4.71 (J-)	—	0.00218 (U)	412 (J+)	1.05 (U)	0.51 (U)	164	0.21 (U)	0.879	6.57	37.6
1500 (J+)	393	0.0193	8.85 (J-)	—	0.00314 (U)	1500 (J+)	1.55 (U)	0.771 (U)	54 (U)	0.31 (U)	71.5	21.4	68.7
974 (J+)	267	0.0124	5.45 (J-)	—	0.00217 (U)	812 (J+)	1 (U)	0.527 (U)	58.8 (U)	0.201 (U)	11.8	16.2	40.1
1570 (J+)	340	0.0145 (J)	7.59 (J-)	—	0.00338 (U)	1540 (J+)	1.54 (U)	0.827 (U)	59 (U)	0.307 (U)	48.8	22.8	63.6
1780 (J+)	179	0.0495	8.79 (J-)	—	0.00249 (U)	1200 (J+)	1.23 (U)	0.619 (U)	74.3 (U)	0.246 (U)	5.41	20.1	32.8
291 (J+)	295	0.0141 (U)	4.3 (J-)	—	0.00248 (U)	629 (J+)	1.17 (U)	0.586 (U)	281	0.233 (U)	1.89	4.12	31.7
390 (J+)	354 (J+)	0.0222 (U)	4.07 (J)	—	0.00214 (U)	353 (J+)	1.01 (U)	0.589	128	0.201 (U)	0.519 (J)	3.9	37.5
862 (J+)	140 (J+)	0.0177 (U)	8.47 (J)	—	0.00233 (U)	340 (J+)	1.12 (U)	2.52	42.7 (U)	0.223 (U)	362	9.67	125
696 (J+)	192 (J+)	0.0144 (U)	7.19 (J)	—	0.00212 (U)	460 (J+)	1.05 (U)	0.766	85	0.0878 (U)	84.4	8.04	36.6
713 (J+)	234 (J+)	0.0157 (U)	6.47 (J)	—	0.00244 (U)	586 (J+)	1.17 (U)	1.06	68.3 (U)	0.0733 (U)	183	11.3	64.7
1050 (J+)	185 (J+)	0.0155 (U)	7.17 (J)	—	0.000923 (J)	675 (J+)	0.64 (J)	0.692	63.9 (U)	0.139 (U)	69.8	11.4	32.1
707 (J+)	122	0.0133 (U)	7.12	—	0.00259 (U)	492 (J+)	1.17 (UJ)	6.95	118	0.234 (U)	364	14.7	13300
1610 (J+)	172	0.0119 (J)	11.9	—	0.00249 (U)	1070 (J+)	1.17 (UJ)	0.438 (J)	63.6	0.262	515	22.7	91.3
602 (J+)	156	0.0134 (U)	5.5	—	0.00253 (U)	499 (J+)	1.22 (UJ)	1.05	53.7 (U)	0.243 (U)	249	11.3	90.6
452 (J+)	249	0.0125 (U)	4	—	0.00214 (U)	436 (J+)	1.03 (UJ)	0.495 (U)	142	0.207 (U)	143	7.13	53.2
692 (J+)	199	0.0141 (U)	8.02	—	0.00234 (U)	700 (J+)	1.16 (UJ)	0.129 (J)	42.1 (U)	0.0891 (J)	49.3	14.6	43.6
972	212	0.0136	4.43 (J)	—	0.000689 (J)	721 (J+)	1.02 (UJ)	0.475 (U)	169 (J+)	0.0926 (J)	17 (J+)	6.88	23.6
832	238	0.00955 (J)	5 (J)	—	0.00252 (U)	740 (J+)	1.15 (UJ)	0.601 (U)	78.9 (J+)	0.101 (J)	7.41 (J+)	15	28
1580	189	0.0162	7.05 (J)	—	0.00224 (U)	967 (J+)	1.05 (UJ)	0.517 (U)	275 (J+)	0.138 (J)	1.79 (J+)	17.5	23.7
968	210	0.0171	5.67 (J)	—	0.00257 (U)	801 (J+)	1.19 (UJ)	0.616 (U)	60 (U)	0.0993 (J)	71.2 (J+)	13.6	32.9
213 (J+)	205	0.0118 (U)	3.61	—	0.00221 (U)	285 (J+)	1.07 (UJ)	0.526 (U)	166	0.214 (U)	11.2	3.22	39.9
1020	182	0.008 (J)	10	—	0.00264 (U)	676 (J+)	1.21 (U)	1.87	62.2 (U)	0.242 (U)	295 (J+)	16.1	75.1
511	221	0.00516 (J)	5.59 (J)	—	0.00224 (U)	453 (J+)	1.03 (UJ)	0.242 (J)	166 (J+)	0.205 (UJ)	37.7 (J+)	4.53	27.8
1260 (J+)	248	0.0114 (U)	4.41	—	0.00221 (U)	770 (J+)	0.981 (UJ)	0.167 (J)	59.2	0.0879 (J)	5.37	15.8	39
494	169	0.0114 (U)	2.52 (J)	—	0.00218 (U)	477 (J+)	1.06 (UJ)	0.525 (U)	246 (J+)	0.211 (UJ)	4.23 (J+)	7.38	56.9
952 (J+)	246	0.00671 (J)	3.4	—	0.0027 (U)	820 (J+)	1.32 (UJ)	0.313 (J)	64.3	0.264 (U)	45.9	19.4	42.6
691 (J+)	205	0.0154	4.32	—	0.00219 (U)	544 (J+)	1.07 (UJ)	0.528 (U)	159	0.214 (U)	8.19	6.72	29.7
1070	274	0.00718 (J)	8.1 (J)	—	0.00245 (U)	993 (J+)	1.21 (UJ)	0.549 (U)	57.7 (U)	0.0767 (J)	9.61 (J+)	21.1	20.9
567 (J+)	224	0.0127	3.83	—	0.00211 (U)	454 (J+)	1 (UJ)	0.494 (U)	120	0.201 (U)	0.622 (U)	6.5	20.3
946	249	0.0148 (U)	6.42 (J)	—	0.00268 (U)	1020 (J+)	1.31 (UJ)	0.603 (U)	56.3 (U)	0.132 (J)	45.7 (J+)	22.2	40.7
451	223	0.00803 (J)	3.65 (J)	—	0.00208 (U)	613 (J+)	1.02 (UJ)	0.502 (U)	244 (J+)	0.203 (UJ)	5.33 (J+)	7.45	31.4
2020	425	0.0184	9.14 (J)	—	0.00314 (U)	1890 (J+)	1.42 (UJ)	0.764 (U)	61.2 (U)	0.205 (J)	16.6 (J+)	22.8	28.5
2250	231	0.0457	10.4 (J)	—	0.00241 (U)	1760 (J+)	1.05 (UJ)	0.575 (U)	137 (J+)	0.191 (J)	2.68 (J+)	24.3	34.5
1050 (J+)	269	0.0135 (U)	4.77	—	0.0027 (U)	1110 (J+)	1.33 (UJ)	0.595 (U)	47.9 (U)	0.102 (J)	11.4	22.4	27.7
791 (J+)	214	0.0162	3.79	—	0.00138 (J)	628 (J+)	0.973 (UJ)	0.473 (U)	244	0.0949 (J)	0.641	8.75	42.7
1350 (J+)	292	0.0104 (J)	6.25	—	0.00268 (U)	1280	1.34 (UJ)	0.631 (U)	109	0.225 (U)	9.1	19.3	27.2
2170 (J+)	189	0.0517	9.25	—	0.000859 (J)	1500	1.19 (UJ)	0.593 (U)	264	0.175 (U)	2.34	16.7	25.4
1190 (J+)	332	0.00841 (J)	6.13	—	0.00267 (U)	1270	1.25 (UJ)	0.635 (U)	42.2	0.202 (U)	4.12	21.5	24.3
208 (J+)	269	0.0114 (U)	2.29	—	0.00211 (U)	400	1 (UJ)	0.502 (U)	186	0.201 (U)	0.514	3.44	16.6

1670 (J+)	539	0.0426	6.64	—	0.00383 (U)	1530	1.86 (UJ)	0.859 (U)	59.4	0.125 (U)	57.8	15.8	63.7
1200 (J+)	298	0.00706 (J)	5.24 (J+)	—	0.00305 (U)	1150	1.4 (U)	0.686 (U)	42.1	0.14 (J)	13.7	18.7	29.9
915 (J+)	195	0.00993 (J)	12.3 (J+)	—	0.0022 (U)	819	1.1 (U)	0.55 (U)	178	0.219 (U)	0.905	10.2	38.8
1340 (J+)	288	0.0108 (J)	5.41 (J+)	—	0.00272 (U)	1200	1.17 (U)	0.356 (U)	69.3	0.103 (J)	9.09	17	26.7
370 (J+)	290	0.0117 (J)	11.3 (J+)	—	0.00217 (U)	400	1.08 (U)	0.147 (U)	169	0.217 (U)	1.47	6.71	37.5
559 (J+)	369	0.0215	3.23 (J+)	—	0.00282 (U)	864	1.41 (U)	0.798	430	0.281 (U)	2.8	6.19	46.4
352 (J+)	272	0.0196	17 (J+)	—	0.0022 (U)	408	1.08 (U)	0.501 (U)	214	0.215 (U)	0.548	5.66	46.8
740	252	0.00879 (J)	4.95	—	0.00249 (U)	776 (J+)	1.21 (U)	0.141 (J)	126	0.245 (U)	3.08	8.97	48.2 (J)
1310	255	0.0137	5.37	—	0.00225 (U)	1040 (J+)	1.12 (U)	0.537 (U)	120	0.0834 (J)	0.876	11.3	44.5 (J)
694	296	0.0126 (J)	3.39	—	0.00269 (U)	667 (J+)	1.34 (U)	0.617 (U)	96.2 (U)	0.26 (U)	19.3	8.71	49.4 (J)
628	205	0.0127	2.52	—	0.00236 (U)	569 (J+)	1.02 (U)	0.538 (U)	90.7 (U)	0.228 (U)	6.46	7.82	41.8 (J)
754	232	0.00818 (J)	4.01	—	0.0026 (U)	664 (J+)	1.19 (U)	0.622 (U)	57.1 (U)	0.0999 (J)	27.3	8.27	35.5 (J)
1200	333	0.00516 (J)	4.27	—	0.00232 (U)	931 (J+)	1.1 (U)	0.553 (U)	73.6 (U)	0.0768 (J)	4.02	12.7	50.3 (J)
1040	353	0.00817 (J)	3.72	—	0.00243 (U)	960 (J+)	1.05 (U)	0.515 (U)	73.8 (U)	0.089 (J)	15.5	11.6	41 (J)
1880	275	0.0442	8.25	—	0.000589 (J)	1430 (J+)	1.14 (U)	0.116 (J)	130	0.158 (J)	0.844	17.7	37.6 (J)
1030 (J+)	266	0.0147 (U)	6.03	—	0.00283 (U)	884 (J+)	1.31 (U)	0.257 (J)	105 (U)	0.0887 (J)	47.9	11.7	42.5
589 (J+)	266	0.0128 (U)	2.29	—	0.00217 (U)	510 (J+)	1.06 (U)	0.228 (J)	187 (J)	0.212 (U)	2.35	8.48	50.3
896 (J+)	329	0.0157 (U)	9.93	—	0.00266 (U)	852 (J+)	1.24 (U)	0.17 (J)	116 (U)	0.127 (J)	103	12.8	50.9
1060 (J+)	287	0.0116 (U)	4.86	—	0.00227 (U)	895 (J+)	1.05 (U)	0.185 (J)	122 (U)	0.0757 (J)	4.82	14.1	48.1
1030 (J+)	265	0.00494 (J)	4.81	—	0.00244 (U)	937 (J+)	1.22 (U)	0.168 (J)	85.5 (U)	0.0756 (J)	59	10.8	54.8
1180 (J+)	145	0.0244	6.6	—	0.00215 (U)	679 (J+)	1.05 (U)	0.484 (U)	111 (U)	0.0801 (J)	0.985	9.73	43.5
1550 (J+)	765	0.00737 (J)	7.19	—	0.00265 (U)	1360 (J+)	1.14 (U)	0.519 (J)	131 (U)	0.104 (J)	28.4	27.6	83.9
584 (J+)	236	0.0333	3.31	—	0.00224 (U)	602 (J+)	1.07 (U)	0.513 (U)	104 (U)	0.214 (U)	1.03	8.33	34
867 (J+)	240	0.00756 (J)	6.05	—	0.00262 (U)	849 (J+)	1.26 (U)	0.183 (J)	153 (U)	0.251 (U)	348	7.23	51.3
1090 (J+)	180	0.0213	4.76	—	0.00224 (U)	766 (J+)	1.09 (U)	0.203 (J)	147 (J)	0.0826 (J)	13.7	11.3	32.1
694 (J+)	338	0.013 (U)	4.33	—	0.00235 (U)	695 (J+)	1.05 (U)	3.27	95.4 (U)	0.0713 (J)	39.3	11.7	42
623 (J+)	272	0.0113 (U)	3.73	—	0.00212 (U)	589 (J+)	0.913 (U)	0.13 (J)	94.4 (U)	0.183 (U)	1.03	8.81	35.4
852 (J+)	220 (J+)	0.00766 (J)	7.76	—	0.00255 (U)	744 (J+)	1.07 (UJ)	0.208 (J)	83.6 (U)	0.138 (J)	33.7	10.5	34.8 (J+)
915 (J+)	282 (J+)	0.00971 (J)	6.39	—	0.00213 (U)	728 (J+)	0.728 (U)	0.477 (U)	97.9 (U)	0.0834 (J)	1.02 (J)	10.7	52.3 (J+)
773 (J+)	282 (J+)	0.0183	6.89	—	0.00221 (U)	615 (J+)	1.09 (UJ)	0.162 (J)	124 (J)	0.079 (J)	0.881 (J)	11.1	44.7 (J+)
982 (J+)	372 (J+)	0.0145 (J)	6.33	—	0.00319 (U)	928 (J+)	1.45 (UJ)	0.729 (U)	86.7 (U)	0.0886 (J)	32.6	12.3	48.8 (J+)
893 (J+)	252 (J+)	0.00558 (J)	5.53	—	0.00266 (U)	726 (J+)	1.2 (UJ)	0.29 (J)	76.3 (U)	0.241 (U)	126	11.5	34.5 (J+)
969 (J+)	295 (J+)	0.0111 (J)	7.23	—	0.00253 (U)	816 (J+)	1.07 (UJ)	0.131 (J)	68.5 (U)	0.116 (J)	189	13.2	42.5 (J+)
828 (J+)	200 (J+)	0.011 (J)	4.1	—	0.000629 (J)	716 (J+)	0.628 (U)	0.531 (U)	94.7 (U)	0.227 (U)	9.2	9.35	38.6 (J+)
1100 (J+)	157 (J+)	0.0195	4.29	—	0.000569 (J)	658 (J+)	1.01 (UJ)	0.501 (U)	84.7 (U)	0.202 (U)	0.438 (J)	10.6	43 (J+)
700 (J+)	243 (J+)	0.017	2.67	—	0.00233 (U)	728 (J+)	1.01 (UJ)	0.141 (J)	204 (J)	0.202 (U)	11.3	7.44	43.1 (J+)
367 (J+)	192 (J+)	0.00628 (J)	2.22	—	0.00208 (U)	562 (J+)	0.937 (UJ)	0.472 (U)	415	0.187 (U)	0.893 (J)	4.48	46.4 (J+)
1400 (J+)	269 (J+)	0.0189	4.7	—	0.00244 (U)	1200 (J+)	1.17 (UJ)	0.133 (J)	116 (U)	0.0887 (J)	1.67	18.7	46.7 (J+)
1790 (J+)	225 (J+)	0.0317	14.9	—	0.0023 (U)	1180 (J+)	1.06 (UJ)	0.544 (U)	122 (U)	0.197 (J)	0.783 (J)	17.6	35.3 (J+)
2850 (J+)	504 (J+)	0.0113 (J)	6.72	—	0.00295 (U)	2510 (J+)	1.37 (UJ)	0.655 (U)	191 (J)	0.106 (J)	2.09	34.9	66.5 (J+)
2090 (J+)	323 (J+)	0.0232	11	—	0.00213 (J)	1760 (J+)	0.93 (UJ)	0.484 (U)	348	0.178 (J)	0.776 (J)	20.9	40.2 (J+)
1320	409	0.0131 (J)	6.76	—	0.00263 (U)	1260 (J+)	1.2 (U)	0.605 (U)	89.4 (J+)	0.108 (J)	2.22	17.7	35.3 (J+)
1220	312	0.0145	7.91	—	0.00224 (U)	1080 (J+)	1.05 (U)	0.124 (J)	92.5 (J+)	0.127 (J)	0.766	20.9	33.6 (J+)
907	193	0.00642 (J)	3.2	—	0.00261 (U)	889 (J+)	1.25 (U)	0.626 (U)	56.5 (J+)	0.0775 (J)	4.57	13	27.4 (J+)
728	225	0.00721 (J)	3.57	—	0.00219 (U)	697 (J+)	1.08 (U)	0.177 (J)	70.5 (J+)	0.0688 (J)	7.44	13.6	33.2 (J+)
859	325	0.0122 (J)	4.12	—	0.00251 (U)	832 (J+)	1.19 (U)	0.129 (J)	67.8 (J+)	0.093 (J)	18.5	21.7	31.5 (J+)
880	246	0.00753 (J)	3.88	—	0.0023 (U)	791 (J+)	1.14 (U)	0.111 (J)	79.7 (J+)	0.101 (J)	1.1	21.2	25.2 (J+)

1130	168 (J-)	0.0122 (U)	3.1	—	0.00214 (U)	535	1.04 (U)	0.142 (J)	134 (J+)	0.208 (U)	1.27	20.2 (J)	27.2
1260	222 (J-)	0.0108 (U)	4.27	—	0.00212 (U)	673	1.01 (U)	0.39 (J)	181 (J+)	0.202 (U)	7.77	15.7 (J)	26.2
1290	220 (J-)	0.0143 (U)	3.75	—	0.00257 (U)	709	1.28 (U)	0.376 (J)	157 (J+)	0.257 (U)	3.7	11.2 (J)	38.4
953	237 (J-)	0.00804 (J)	3.42	—	0.00227 (U)	706	1.13 (U)	0.296 (J)	91.9 (J+)	0.225 (U)	4.26	9.92 (J)	34.8
487	51.3 (J-)	0.0108 (U)	5.37	—	0.00216 (U)	235	1.06 (U)	0.539 (U)	87 (J+)	0.212 (U)	2.39	5.86 (J)	9.39
1080	129 (J-)	0.00802 (J)	4.1 (J+)	—	0.00212 (U)	507	1.03 (UJ)	0.108 (J)	89.8 (J+)	0.0899 (U)	1.08	12.7 (J)	13.3
1580	165 (J-)	0.0131 (U)	4.54	—	0.00248 (U)	845	1.13 (U)	0.174 (J)	169 (J+)	0.225 (U)	3.8	16.3 (J)	27.2
576	215 (J-)	0.013 (U)	3.21	—	0.00231 (U)	457	1.13 (U)	0.31 (J)	147 (J+)	0.226 (U)	4.03	4.89 (J)	32
242 (J+)	202	0.0162 (U)	1.48	1.44 (UJ)	0.00288 (U)	340	1.27 (U)	0.721 (U)	49.8 (U)	0.253 (U)	1.5 (J)	2.76	31
507 (J+)	224	0.00849 (J)	3.14	1.3 (J-)	0.000892 (J)	478	1.06 (U)	0.506 (U)	58.8 (U)	0.0643 (U)	2.62 (J)	7.58	32.9
659 (J+)	226	0.0118 (U)	3.32	1.27 (U)	0.00211 (U)	599 (J+)	1.02 (UJ)	0.123 (J)	151 (U)	0.204 (U)	1.95 (J)	8	114
551 (J+)	270	0.012 (U)	2.22	1.03 (U)	0.00207 (U)	529 (J+)	0.946 (UJ)	0.115 (J)	190 (J+)	0.189 (U)	1.74 (J)	7.1	53.1
1300 (J+)	447	0.0165 (J)	4.46	1.61 (UJ)	0.00325 (U)	1190	1.59 (U)	0.757 (U)	58.6 (U)	0.115 (U)	615 (J)	13.7	51.5
579 (J+)	152	0.0129 (J)	2.14	1.75 (J-)	0.00251 (U)	489	0.669 (U)	0.584 (U)	59.7 (U)	0.107 (U)	52 (J)	9.9	38
1050 (J+)	280	0.0139 (J)	4.22	2.76 (J-)	0.00254 (U)	856	1.26 (U)	0.621 (U)	47.1 (U)	0.161 (U)	13.7 (J)	17.8	34.8
1020 (J+)	233	0.0118 (J)	4.78	1.17 (UJ)	0.00234 (U)	841	1.15 (U)	0.556 (U)	54.6 (U)	0.11 (U)	3.62 (J)	15.8	34.8
979 (J+)	233	0.00896 (J)	4.2	1.37 (UJ)	0.00276 (U)	963	1.38 (U)	0.644 (U)	44.6 (U)	0.0859 (U)	10.6 (J)	11.5	31.7
910 (J+)	210	0.00721 (J)	3.97	1.12 (UJ)	0.00224 (U)	798	1.12 (U)	0.535 (U)	62.2 (U)	0.118 (U)	3.07 (J)	15.1	31.6
625 (J+)	262	0.0111 (U)	2.64	1.25 (U)	0.000621 (J)	614 (J+)	1.03 (UJ)	0.107 (J)	208 (J+)	0.205 (U)	2.32 (J)	7.06	54.4
382 (J+)	211	0.0121 (U)	1.64	0.992 (U)	0.00208 (U)	542 (J+)	0.996 (UJ)	0.497 (U)	274 (J+)	0.199 (U)	1.2 (J)	4.73	42
619 (J+)	248	0.0117 (U)	4.02	1.05 (U)	0.00211 (U)	592 (J+)	0.995 (UJ)	0.112 (J)	153 (U)	0.199 (U)	2.48 (J)	6.77	76.4
470 (J+)	196	0.00422 (J)	2.44	1.22 (U)	0.00207 (U)	464 (J+)	1.03 (UJ)	0.117 (J)	192 (J+)	0.207 (U)	4.7 (J)	5.47	45.8
459 (J+)	229	0.0108 (U)	2.31	1.03 (U)	0.00247	624 (J+)	1.02 (UJ)	0.491 (U)	269 (J+)	0.0732 (J)	1.37 (J)	5.68	33.8
409 (J+)	232	0.0117 (U)	2.95	1.02 (U)	0.00106 (J)	558 (J+)	1.02 (UJ)	0.486 (U)	268 (J+)	0.0694 (J)	1.1 (J)	5.03	39.3
119 (J+)	206	0.0113 (U)	0.35 (J-)	1.04 (U)	0.00208 (U)	519	1 (U)	0.118 (J)	402	0.201 (U)	0.358 (J)	2.04	34.2
239 (J+)	266	0.0109 (U)	1.94 (J-)	1.07 (U)	0.00214 (U)	639	1.05 (U)	0.124 (J)	475	0.078 (J)	0.687 (J)	3.34	51.5
138 (J+)	203	0.0122 (U)	0.471 (J-)	1.05 (U)	0.0021 (U)	404	1.02 (U)	0.149 (J)	277	0.203 (U)	0.441 (J)	1.94	39.7
114 (J+)	177	0.0106 (U)	0.36 (J-)	1.03 (U)	0.00207 (U)	347	0.985 (U)	0.499 (U)	223	0.197 (U)	0.424 (J)	1.75	41
1100	230 (J-)	0.1 (U)	3.9	—	—	1000	1 (U)	2 (U)	64	0.26 (U)	—	10	31
880	260 (J-)	0.11 (U)	3.8	—	—	740	1.1 (U)	2.2 (U)	92	0.27 (U)	—	7.7	32
890	330 (J-)	0.11 (U)	4	—	—	820	1.1 (U)	2.2 (U)	74	0.27 (U)	—	8.2	32
900	260 (J-)	0.1 (U)	3.6	—	—	820	1 (U)	2.1 (U)	55	0.26 (U)	—	8.9	34
630	220 (J-)	0.1 (U)	2.9	—	—	500	1 (U)	2 (U)	60	0.26 (U)	—	5.6	28
720	190 (J-)	0.1 (U)	2.9	—	—	640	1 (U)	2.1 (U)	62	0.26 (U)	—	5.9	28
490	230 (J-)	0.11 (U)	2.1 (U)	—	—	460	1.1 (U)	2.1 (U)	41	0.27 (U)	—	8	42
510	250 (J-)	0.11 (U)	3.1	—	—	460	1.1 (U)	2.1 (U)	71	0.26 (U)	—	4.6	31
330	150 (J-)	0.1 (U)	2 (U)	—	—	300	1 (U)	2 (U)	36	0.25 (U)	—	2.9	17
443 (J+)	180 (J+)	0.0142 (U)	2.41	1.19 (U)	0.00243 (U)	391	1.13 (U)	0.566 (U)	48.8 (U)	0.227 (U)	1.52	4.83	25.4 (J)
519 (J+)	260 (J+)	0.0124 (U)	3.59	1.3	0.00226 (U)	441	1.03 (U)	0.541 (U)	66.9 (U)	0.206 (U)	3.3	4.17	28 (J)
472 (J+)	282 (J+)	0.0146 (U)	3.1	1.29 (U)	0.00258 (U)	429	1.22 (U)	0.591 (U)	57.4 (U)	0.244 (U)	4	5.9	38 (J)
369 (J+)	200 (J+)	0.0124 (U)	2.33	1.06 (U)	0.00213 (U)	308	1.01 (U)	0.492 (U)	50.9 (U)	0.202 (U)	2.12	4.66	29.9 (J)
483	349	0.00868 (J)	2.88	1.32 (U)	0.00264 (U)	430	1.3 (U)	0.635 (U)	62.7	0.26 (U)	0.77	4.64	42.3
310	349	0.00576 (J)	2.37	1.08 (U)	0.00216 (U)	285	1.07 (U)	0.159 (J)	70.7	0.215 (U)	0.728	3.83	43.8
603 (J+)	282 (J+)	0.0108 (J)	7.35 (J-)	1.06 (U)	0.00211 (U)	532 (J+)	1.04 (UJ)	0.523 (U)	260	0.208 (U)	1.8	6.68	53.8 (J+)
555 (J+)	250 (J+)	0.00953 (J)	2.18 (J-)	1.64	0.000645 (J)	538 (J+)	1.02 (UJ)	0.502 (U)	236	0.203 (U)	1.22	5.95	49.4 (J+)
810 (J+)	286 (J+)	0.0156	7.99 (J-)	2.24	0.00136 (J)	883 (J+)	1.05 (UJ)	0.15 (J)	281	0.0729 (J)	8.19	11.1	47.2 (J+)
714 (J+)	268 (J+)	0.0146	3.4 (J-)	2.14	0.0011 (J)	702 (J+)	1.03 (UJ)	0.132 (J)	183	0.0712 (J)	1.51	8.78	35.9 (J+)

801 (J+)	315 (J+)	0.0133	4.29 (J-)	1.22	0.000598 (J)	651 (J+)	1.1 (UJ)	0.127 (J)	203	0.22 (U)	3.27	9.07	56.3 (J+)
360 (J+)	232 (J+)	0.00592 (J)	1.14 (J-)	1.03 (U)	0.00206 (U)	480 (J+)	1.02 (UJ)	0.499 (U)	315	0.203 (U)	0.593	2.88	41.7 (J+)
711 (J+)	282	0.0133	4.63	1.1	0.000599 (J)	639 (J+)	0.945 (UJ)	0.506 (U)	177 (J+)	0.189 (U)	1.63 (J)	10.5	36.9
456 (J+)	332	0.00634 (J)	1.93	1.21	0.000562 (J)	592 (J+)	1.05 (UJ)	0.529 (U)	383 (J+)	0.21 (U)	1.09 (J)	5.3	52.6
380 (J+)	277 (J+)	0.00733 (J)	2.84	1.3 (U)	0.0026 (U)	386	1.25 (U)	0.599 (U)	81.9	0.251 (U)	1.33	5.43	28.4 (J)
551 (J+)	277 (J+)	0.00581 (J)	4.07	1.16 (U)	0.00236 (U)	472	1.1 (U)	0.55 (U)	54.2 (U)	0.093 (J)	3.22	7.67	31.8 (J)
263 (J+)	189 (J+)	0.0141 (U)	2.02	1.28 (U)	0.0026 (U)	250	1.23 (U)	0.597 (U)	54.8 (U)	0.246 (U)	1.33	5.05	35.2 (J)
509 (J+)	243 (J+)	0.00706 (J)	4.04	1.14 (U)	0.0023 (U)	391	1.11 (U)	0.543 (U)	57.9 (U)	0.221 (U)	3.53	7.86	34.6 (J)
360 (J+)	169 (J+)	0.0134 (U)	2.91	1.27 (U)	0.00256 (U)	335	1.19 (U)	0.581 (U)	34.9 (U)	0.237 (U)	2.82	6.42	25.8 (J)
432 (J+)	289 (J+)	0.00506 (J)	3.13	1.13 (U)	0.00229 (U)	366	1.11 (U)	0.521 (U)	50.7 (U)	0.223 (U)	1.8	4.41	45.6 (J)
495 (J+)	259 (J+)	0.0134 (U)	2.94	1.16 (U)	0.000642 (J)	443	1.05 (U)	0.574 (U)	43.2 (U)	0.21 (U)	3.62	8.19	40.9 (J)
499 (J+)	291 (J+)	0.0122 (U)	3.09	1.04 (U)	0.00213 (U)	497	0.97 (U)	0.521 (U)	61.9 (U)	0.194 (U)	1.91	6.5	41.9 (J)
538 (J+)	217	0.00689 (J)	2.88	1.2 (U)	0.00239 (U)	479 (J+)	1.09 (U)	0.59 (U)	38.1	0.217 (U)	2.61	6.09	21
604 (J+)	211	0.00698 (J)	2.81	1.07 (U)	0.00215 (U)	489 (J+)	0.992 (U)	0.513 (U)	41.1	0.0631 (U)	3.58	7.12	27.2
309 (J+)	197	0.0142 (U)	3.69	1.38 (U)	0.00276 (U)	272 (J)	1.28 (U)	0.635 (U)	44.6	0.256 (U)	3.99	5.63	31.1
549 (J+)	246	0.00788 (J)	3.21	1.22 (U)	0.00244 (U)	498 (J+)	1.16 (U)	0.587 (U)	52.7	0.152 (U)	4.08	8.57	36.1
310 (J+)	177	0.0159 (U)	1.85	1.33 (U)	0.00267 (U)	312 (J+)	1.27 (U)	0.63 (U)	42.3	0.255 (U)	1.6	3.73	25.3
464	254	0.00511 (J)	5.77 (J-)	1.23 (U)	0.00246 (U)	472 (J+)	1.17 (UJ)	0.208 (J)	56.3 (J+)	0.104 (J)	1.61	5.5	30.7
599	334	0.0138 (J)	3.34	1.29 (U)	0.0026 (U)	590	1.24 (U)	0.171 (J)	43	0.248 (U)	4.29	7.95	26.3
363	283	0.0137 (U)	2.81	1.2 (U)	0.00241 (U)	341	1.17 (U)	0.152 (J)	58.6	0.233 (U)	3.55	4.32	40.4
378	265	0.0127 (U)	2.61	1.22 (U)	0.00244 (U)	342	1.17 (U)	0.211 (J)	37.5	0.235 (U)	4.11	5.81	39.1
295	125	0.00613 (J)	1.54	1.24 (U)	0.00248 (U)	260	1.24 (U)	0.138 (J)	36.7	0.247 (U)	2.83	4.13	25.1
685	257	0.00904 (J)	4.36	1.29 (U)	0.00265 (U)	595	1.29 (U)	0.272 (J)	59.6	0.257 (U)	8.8	8.95	36.7
1150 (J+)	228	0.0083 (J)	7.4 (J-)	1.26	0.00211 (U)	869	1.05 (U)	0.224 (J)	342	0.158 (J)	3.15 (J)	11.6	31.8
955 (J+)	318	0.00874 (J)	5.45 (J-)	1.08	0.00212 (U)	810	1.05 (U)	0.273 (J)	457	0.21 (U)	1.67 (J)	8.99	34.4
1680	270	0.016	7.61	1.88	0.00216 (U)	1360 (J+)	1.06 (U)	0.138 (J)	190 (J+)	0.181 (J)	5.66	17.9	40.5 (J+)
2400	400	0.0173	8.77	1.71	0.0022 (U)	2210 (J+)	1.01 (U)	0.502 (U)	275 (J+)	0.204	3.1	28.2	31.8 (J+)
2110	174	0.118	7.36	9.71	0.00236 (U)	1840 (J+)	1.11 (U)	0.16 (J)	177 (J+)	0.17 (J)	6.41	25.9	39.7 (J+)
2390	202	0.058	7.77	10.2	0.00225 (U)	2150 (J+)	1.05 (U)	0.559 (U)	195 (J+)	0.199 (J)	4.05	31.2	86.5 (J+)
1690	252	0.0363	8.63	1.24 (U)	0.00248 (U)	1230 (J+)	1.2 (U)	0.551 (U)	430 (J+)	0.123 (J)	0.962	13.4	35.7 (J+)
1120	254	0.0145	7.31	1.25 (UJ)	0.0025 (U)	880 (J+)	1.23 (UJ)	0.553 (U)	409	0.1 (J)	0.847	9.59	31.3
1310	195	0.0147	6.02	1.12 (UJ)	0.0015 (J)	1050 (J+)	1.08 (UJ)	0.546 (U)	808	0.107 (J)	1.12	11.5	30.2
1320	250	0.0119 (U)	4.65	1.05 (UJ)	0.000907 (J)	1200 (J+)	0.919 (UJ)	0.496 (U)	1020	0.0693 (J)	0.507	7.35	39.4
1980	310	0.0132	7.79	1.57 (J-)	0.000681 (J)	1590 (J+)	1.09 (UJ)	0.514 (U)	523	0.22	3.91	19.8	27.9
2020	278	0.0141	9.68	1.93 (J-)	0.000631 (J)	1410 (J+)	1.01 (UJ)	0.497 (U)	456	0.189 (J)	5.28	17.7	27.4
2170	283	0.0082 (J)	7.67	1.15 (UJ)	0.000737 (J)	1780 (J+)	1.11 (UJ)	0.121 (J)	293	0.206 (J)	4.06	21	28.6
1970	240	0.0127	6.98	1.13 (UJ)	0.00123 (J)	1510 (J+)	1.12 (UJ)	0.55 (U)	404	0.187 (J)	1.79	15.6	34.1
1210 (J+)	574	0.0243	5	1.32 (UJ)	0.00266 (U)	1050 (J+)	1.33 (U)	0.521 (J)	57.8	0.145 (J)	13.3 (J-)	11.8	38.9
737 (J+)	189	0.00744 (J)	3.47	1.16 (UJ)	0.00236 (U)	698 (J+)	1.13 (U)	0.417 (J)	64.2	0.0884 (J)	1.42 (J-)	14.3	22.8
867 (J+)	259	0.163	3.86	1.07 (UJ)	0.00216 (U)	690 (J+)	1.08 (U)	0.503 (J)	49	0.104 (J)	3.15 (J-)	14.4	40.2
1110 (J+)	157	0.222	4.88	1.12 (UJ)	0.00224 (U)	755 (J+)	1.09 (U)	0.512 (J)	63.7	0.158 (J)	5.44 (J-)	16.2	36.3
823 (J+)	311	0.0246	4.58	1.11 (UJ)	0.00221 (U)	714 (J+)	1.09 (U)	0.466 (J)	45.3	0.121 (J)	1.12 (J-)	16.1	41.5
674 (J+)	313	0.0125	4.27	1.04 (UJ)	0.00211 (U)	510 (J+)	1.05 (U)	0.67	53.5	0.0912 (J)	0.768 (J-)	23.7	70.6
738 (J+)	279	0.0428	3.66	1.47 (J-)	0.00225 (U)	574 (J+)	1.09 (U)	0.608	90.8	0.0992 (J)	1.08 (J-)	16.7	52.8
903 (J+)	247	0.226	5.67	1.38 (UJ)	0.00286 (U)	694 (J+)	1.38 (U)	0.481 (J)	128	0.112 (J)	1.52 (J-)	12.7	42.3
731 (J+)	290	0.027	3.43	1.39 (J-)	0.00228 (U)	513 (J+)	1.12 (U)	0.575	117	0.0903 (J)	0.512 (J-)	22	72.9
1220 (J+)	249	0.688	5.21	1.11 (UJ)	0.00225 (U)	1010 (J+)	1.1 (U)	0.413 (J)	59.5	0.187 (J)	3.97 (J-)	15	41.3

1300 (J+)	308	0.252	5.94	1.09 (UJ)	0.000762 (J+)	983 (J+)	1.07 (U)	0.604	69.5	0.148 (J)	2.02 (J-)	16.1	44.6
690 (J+)	218	0.0739	3.22	1.11 (UJ)	0.00222 (U)	558 (J+)	1.1 (U)	0.465 (J)	113	0.22 (U)	0.663 (J-)	11.1	41.3
607 (J+)	220	0.0426	3.04	1.11 (UJ)	0.00223 (U)	456 (J)	1.08 (U)	0.553	55.5	0.217 (U)	0.591 (J-)	8.04	33.9
699	226	0.0203	4.18	1.65 (J-)	0.00226 (U)	606 (J+)	0.72 (J)	0.402 (J)	49.4 (U)	0.0993 (J)	1.49	8.21	32.2
596	214	0.02	3.89	1.07 (UJ)	0.00215 (U)	424 (J+)	0.579 (J)	0.459 (J)	50.6 (U)	0.0904 (J)	0.579	7.46	33.4
1060	266	0.0513	4.99	1.19 (UJ)	0.000598 (J)	819 (J+)	1.11 (U)	0.437 (J)	63 (U)	0.139 (J)	4.98	11.5	31.5
513	128	0.00971 (J)	2.65	1.05 (UJ)	0.00211 (U)	337 (J+)	0.971 (U)	0.503 (J)	65.2 (U)	0.194 (U)	0.395	7.19	29.1
1870	319	0.644	9.94	—	0.000831 (J)	1610	1.23 (U)	8.47	79.3 (U)	0.23 (J)	1.97	25.8	68.4
1830	300	0.106	10.5	—	0.00224 (U)	1550	1.1 (U)	3.67	99 (U)	0.26	0.658	26	42.3
2270	445	1.54	9.5	—	0.00222 (U)	1880	1.06 (U)	21	164	0.23	3.57	29.1	60.6
1490	268	0.542	9.61	—	0.00214 (U)	1130	1.06 (U)	4.12	222	0.167 (J)	0.895	14	50.4
1780 (J+)	361	0.0172	8.1	—	0.00243 (U)	1430 (J+)	1.2 (UJ)	7.63	242	0.197 (U)	0.947	24.3	44.2
2090 (J+)	362	0.0161	9.58	—	0.00248 (U)	1780 (J+)	1.22 (UJ)	1.9	231	0.277 (U)	0.977	27.9	33.2
1650 (J+)	292	0.0159	8.81	—	0.00158 (J)	2060 (J+)	1.36 (UJ)	0.715 (U)	169	0.177 (U)	2.81	21.6	27.6
2110 (J+)	380	0.0103 (J)	7.37	—	0.00256 (U)	1970 (J+)	1.24 (UJ)	0.641 (U)	96.7	0.204 (U)	0.898	28.4	30.8
1820 (J+)	393	0.0261	7.46	—	0.000895 (J)	1800 (J+)	1.2 (UJ)	0.616 (U)	84.8	0.153 (U)	4.86	25.2	30.6
1830 (J+)	574	0.0128	6.66	—	0.0022 (U)	1870 (J+)	1.05 (UJ)	0.547 (U)	102	0.186 (U)	0.974	30.8	27.7
1810 (J+)	370	0.0382	7.21	—	0.000686 (J)	1860 (J+)	1.26 (UJ)	0.373 (J)	84.5	0.165 (U)	11	24.7	32.3
1680 (J+)	352	0.0121	5.79	—	0.00217 (U)	1860 (J+)	1.07 (UJ)	0.397 (J)	260	0.179 (U)	1.02	31.2	43.5
1680	319	0.0453	8.96	—	0.00065 (J)	1710	1.25 (U)	0.196 (J)	86.7 (U)	0.183 (J)	3.51	22.5	33.3
2080	254	0.0204	10.7	—	0.0011 (J)	1970	1.1 (U)	0.552 (U)	127 (U)	0.231	1.08	25.2	25.3
1750	433	0.0181	9.08	—	0.0012 (J)	1850	1.19 (U)	0.601 (U)	79.3 (U)	0.182 (J)	4.81	23.8	30
1730	477	0.0155	8.81	—	0.00284	1760	1.1 (U)	0.55 (U)	237	0.185 (J)	0.668	21.4	40
1490 (J+)	203	0.015	6.21	—	0.00119 (J)	1880 (J+)	0.969 (UJ)	0.524 (U)	131	0.134 (U)	3.28	20.3	28.5
1530 (J+)	201	0.0183	6.8	—	0.00116 (J)	1730 (J+)	1.06 (UJ)	0.538 (U)	138	0.189 (U)	1.21	23.8	22.3
1540 (J+)	317	0.119	7.96	—	0.00127 (J)	1560 (J+)	1.25 (UJ)	0.613 (U)	75.6	0.145 (U)	3.47	23.3	44.7
1590 (J+)	307	0.171	9.37	—	0.000752 (J)	1540 (J+)	1.24 (UJ)	0.6 (U)	94.5	0.151 (U)	3.8	25.1	39.8
1340 (J+)	147	0.0277	5.85	—	0.00231 (U)	1270 (J+)	1.13 (UJ)	0.576 (U)	120	0.118 (U)	0.624	24.1	23.9
1720 (J+)	313	0.022	7.98	—	0.00228 (U)	1390 (J+)	1.14 (UJ)	0.563 (U)	150	0.15 (U)	0.581	27.1	29.8
1460 (J+)	197	0.0169	6.63	—	0.00244 (U)	1900 (J+)	1.2 (UJ)	0.583 (U)	133	0.147 (U)	2.38	17.5	24.4
1140 (J+)	270	0.00885 (J)	5.55	—	0.00228 (U)	1420 (J+)	1.13 (UJ)	0.562 (U)	144	0.0926 (U)	1.06	16.4	44.6
1740 (J+)	340	0.185	8.75	—	0.000616 (J)	1560 (J+)	1.17 (UJ)	0.594 (U)	83	0.174 (U)	2.8	25.5	36.2
1720 (J+)	297	0.0366	7.19	—	0.00221 (U)	1810 (J+)	1.09 (UJ)	0.545 (U)	123	0.165 (U)	1.4	30.2	30.6
829 (J+)	208	0.0241	5.22	—	0.00246 (U)	699 (J+)	1.15 (U)	0.638	57.1	0.173 (J)	1.33	11.3	22.4
1620 (J+)	263	0.0307	7.84	—	0.00221 (U)	1260 (J+)	1.09 (U)	1.08	110	0.225	3.2	18.3	31.6
2240 (J+)	353	0.692	9.67	—	0.000889 (J)	1670 (J+)	1.1 (U)	0.547	97.8	0.278	4.11	29.5	37.2
1890 (J+)	257	0.0376	8.18	—	0.000646 (J)	1760 (J+)	1.08 (U)	0.499 (J)	179	0.221	1.13	25.5	34.7
1800 (J+)	328	0.0297	9.21	—	0.00279 (U)	1560 (J+)	1.33 (U)	0.34 (J)	77.8	0.19 (J)	4.85	20	34.6
1540 (J+)	180	0.0178	6.93	—	0.00234 (U)	1220 (J+)	1.15 (U)	0.431 (J)	65.5	0.155 (J)	1.07	13	40.7
1370 (J+)	267	0.0276	8.85	—	0.00305 (U)	1300 (J+)	1.5 (U)	1.68	86.7	0.245 (J)	5.93	16.7	21.2
1150 (J+)	343	0.0149	8.37	—	0.00247 (U)	1020 (J+)	1.18 (U)	1.83	86.8	0.187 (J)	2.67	22.3	40.4
1100 (J+)	262	0.0148	6.35	—	0.00252 (U)	1100 (J+)	1.23 (U)	0.574 (J)	75.6	0.183 (J)	6.67	18.3	26.1
1600 (J+)	261	0.0135	7.67	—	0.00222 (U)	1500 (J+)	1.06 (U)	0.558	121	0.199 (J)	1.05	25	36.4
1090 (J+)	610	0.0288	3.81	—	0.00262 (U)	1070 (J+)	1.18 (U)	0.55 (J)	79.5	0.119 (J)	3.42	20.5	32.9
697 (J+)	270	0.00904 (J)	5.62	—	0.00234 (U)	625 (J+)	1.12 (U)	0.514 (J)	133	0.115 (J)	0.817	10.8	34.4
1450 (J+)	542	0.0217	5.44 (J)	—	0.00262 (U)	1480 (J+)	1.28 (U)	0.714	57.8	0.15 (J)	13.9	20.4	31.5
1840 (J+)	328	0.0155	8.63 (J)	—	0.000829 (J)	1810 (J+)	1.11 (U)	1.02	120	0.193 (J)	0.971	21.4	37.2

1580 (J+)	434	0.0186	7.04 (J)	—	0.00268 (U)	1650 (J+)	1.32 (U)	0.845	62.6	0.185 (J)	3.76	25.7	21.5
1900 (J+)	409	0.00851 (J)	7.88 (J)	—	0.000617 (J)	2150 (J+)	1.08 (U)	0.904	77.8	0.238	0.731	28.5	23.9
2080 (J+)	372	0.0112 (J)	8.89 (J)	—	0.0024 (U)	1890 (J+)	1.17 (U)	0.809	86.8	0.231 (J)	0.984	31	27.8
1530 (J+)	140	0.0133 (J)	4.69 (J)	—	0.00243 (U)	967 (J+)	1.2 (U)	0.857	273	0.159 (J)	0.375	11	28.8
1750 (J+)	329	0.678	9.07 (J)	—	0.00244 (U)	1690 (J+)	1.19 (U)	3.2	86.2	0.219 (J)	7.55	25	126
1770 (J+)	360	1.34	8.53 (J)	—	0.00221 (U)	1370 (J+)	1.1 (U)	5.42	123	0.203 (J)	9.66	29.1	125
2020 (J+)	264	0.0225	10.8 (J)	—	0.00255 (U)	1560 (J+)	1.25 (U)	0.938	136	0.28	1.15	23.5	25.2
1730 (J+)	237	0.0183	7.58 (J)	—	0.00217 (U)	1310 (J+)	1.06 (U)	0.863	169	0.204 (J)	1.04	17.8	29.2
1370 (J+)	298	0.00927 (J)	7.61 (J)	—	0.00138 (J)	1390 (J+)	1.29 (U)	0.756	80.8	0.249 (J)	0.777	19	24
2270 (J+)	398	0.023	12.1 (J)	—	0.00228 (U)	1710 (J+)	1.14 (U)	1.14	85.3	0.295	1.06	29.1	27.7
1670 (J+)	278	0.0367	7.88 (J)	—	0.00232 (U)	1250 (J+)	1.15 (U)	0.902	249	0.195 (J)	0.838	18.6	30.9
1110 (J+)	185	0.0166	2.85 (J)	—	0.00245 (U)	941 (J+)	1.2 (U)	0.691	462	0.147 (J)	0.261	7.65	31.5