

Electronic Supplement to Paper number 99-0311, Exhumation of Ultrahigh-Pressure Continental Crust in East—Central China: Late Triassic—Early Jurassic Tectonic Unroofing, B.R. Hacker et al.

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Part 1. U/Pb data measured by sensitive high-resolution ion microprobe at the Australian National University

Label	U (ppm)	Th (ppm)	Th/U	$^{204}\text{Pb}/^{206}\text{Pb}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{238}\text{U}/^{206}\text{Pb}$	^{206}Pb (%)	Age (Ma)
DS43; ages used to compute means of 667 – 9 Ma and 739 – 11 Ma identified by ¹ and ², respectively								
1.1	721	1033	1.43	0.00003 – 0.00004	0.0669 – 0.0011	9.09 – 0.21	0.06 – 0.08	672 – 14 ²
2.1	575	797	1.39	0.00024 – 0.00007	0.0704 – 0.0012	8.74 – 0.43	0.43 – 0.12	695 – 32 ²
3.1	152	76	0.50	0.00092 – 0.00073	0.0930 – 0.0042	9.69 – 0.39	1.63 – 1.29	623 – 25
4.1	772	1120	1.45	0.00007 – 0.00004	0.0653 – 0.0010	9.31 – 0.24	0.13 – 0.07	657 – 16 ²
5.1	603	764	1.27	0.00016 – 0.00005	0.0657 – 0.0008	9.27 – 0.45	0.28 – 0.09	658 – 30 ²
6.1	1023	2129	2.08	0.00023 – 0.00004	0.0660 – 0.0009	10.46 – 0.25	0.42 – 0.08	586 – 13
7.1	212	227	1.07	0.00301 – 0.00073	0.1217 – 0.0016	7.74 – 0.20	5.26 – 1.27	744 – 20 ¹
8.1	125	83	0.66	0.00093 – 0.00022	0.0752 – 0.0029	8.31 – 0.36	1.63 – 0.39	720 – 29 ¹
9.1	189	219	1.16	0.00019 – 0.00011	0.0678 – 0.0013	7.97 – 0.30	0.33 – 0.19	759 – 27 ¹
10.1	153	153	1.00	0.00007 – 0.00007	0.0671 – 0.0012	8.28 – 0.21	0.13 – 0.12	734 – 17 ¹
D236; ages used to compute mean of 779 – 12 Ma identified by ¹								
1.1	514	336	0.654	0.00005 – 0.00003	0.0669 – 0.0011	7.60 – 0.19	0.10 – 0.05	795 – 18 ¹
2.1	607	454	0.747	0.00020 – 0.00003	0.0669 – 0.0007	7.92 – 0.19	0.34 – 0.05	764 – 17 ¹
3.1	1604	204	0.127	0.00006 – 0.00006	0.0622 – 0.0008	20.88 – 0.46	0.11 – 0.12	301 – 6
4.1	2228	13	0.006	0.00065 – 0.00006	0.0509 – 0.0006	30.07 – 1.06	1.19 – 0.12	208 – 7
5.1	2222	122	0.055	0.00002 – 0.00009	0.0749 – 0.0007	23.19 – 0.58	0.03 – 0.16	272 – 6
6.1	1202	30	0.025	0.00009 – 0.00004	0.0553 – 0.0009	26.13 – 1.00	0.17 – 0.07	241 – 9
7.1	1264	712	0.563	0.00003 – 0.00004	0.0662 – 0.0007	10.98 – 0.24	0.05 – 0.07	561 – 12
8.1	2109	100	0.048	0.00087 – 0.00010	0.0639 – 0.0009	26.46 – 0.62	1.61 – 0.19	235 – 5
9.1	2120	31	0.015	0.00051 – 0.00025	0.0890 – 0.0011	27.48 – 0.62	0.94 – 0.46	228 – 5
10.1	2369	19	0.008	0.00042 – 0.00008	0.0717 – 0.0007	29.07 – 0.81	0.78 – 0.15	216 – 5
D253A; ages used to compute mean of 778 – 7 Ma identified by ¹								
1.1	153	135	0.881	0.00001 – 0.00029	0.0735 – 0.0017	8.03 – 0.21	0.02 – 0.51	756 – 19 ¹
2.1	95	58	0.608	n.d	0.0624 – 0.0051	8.59 – 0.47	<0.62	710 – 37
3.1	208	197	0.945	0.00015 – 0.00009	0.0665 – 0.0015	7.83 – 0.21	0.25 – 0.15	773 – 19 ¹
4.1	178	120	0.673	0.00059 – 0.00015	0.0669 – 0.0020	7.95 – 0.23	1.03 – 0.26	756 – 21 ¹
5.1	39	81	2.057	0.00002 – 0.00041	0.0798 – 0.0053	7.62 – 0.28	0.04 – 0.72	794 – 27 ¹
6.1	123	171	1.386	0.00099 – 0.00023	0.0924 – 0.0023	7.89 – 0.20	1.73 – 0.40	756 – 18 ¹
7.1	81	151	1.863	0.00098 – 0.00038	0.1029 – 0.0039	7.39 – 0.29	1.71 – 0.66	804 – 29 ¹
8.1	174	134	0.771	0.00015 – 0.00025	0.0956 – 0.0019	7.87 – 0.21	0.26 – 0.43	769 – 19 ¹
9.1	177	260	1.466	0.00102 – 0.00011	0.0755 – 0.0015	7.27 – 0.18	1.77 – 0.18	816 – 19 ¹
10.1	96	86	0.896	0.00113 – 0.00113	0.1009 – 0.0033	7.17 – 0.25	1.96 – 1.96	826 – 31 ¹
D337A; ages used to compute means of 659 – 7 Ma and 733 – 8 Ma identified by ¹ and ², respectively								
1.1	2537	910	0.359	0.00000 – 0.00002	0.0641 – 0.0005	8.70 – 0.28	<0.22	701 – 22
2.1	421	165	0.393	<0.00003	0.0652 – 0.0015	8.30 – 0.22	<0.05	732 – 18 ²
3.1	843	362	0.429	0.00001 – 0.00002	0.0646 – 0.0009	8.22 – 0.18	0.02 – 0.03	739 – 15 ²
4.1	682	324	0.475	0.00008 – 0.00002	0.0644 – 0.0017	9.10 – 0.21	0.15 – 0.04	671 – 14 ¹

5.1	512	159	0.312	0.00004 – 0.00006	0.0654 – 0.0014	8.37 – 0.19	0.07 – 0.11	727 – 15 ²
6.1	3976	2029	0.510	0.00015 – 0.00005	0.0749 – 0.0004	9.06 – 0.21	0.26 – 0.08	673 – 15 ¹
7.1	2302	968	0.421	0.00023 – 0.00004	0.0682 – 0.0011	9.37 – 0.38	0.40 – 0.08	651 – 25 ¹
8.1	514	198	0.386	0.00022 – 0.00011	0.0727 – 0.0012	9.31 – 0.22	0.39 – 0.19	655 – 15 ¹
9.1	398	240	0.604	0.00057 – 0.00007	0.0742 – 0.0014	9.51 – 0.24	1.00 – 0.13	638 – 15 ¹
10.1	399	244	0.613	0.00084 – 0.00011	0.0719 – 0.0012	8.19 – 0.21	1.47 – 0.19	732 – 17 ²

DS347B

1.1	1195	4	0.004	0.00035 – 0.00004	0.0531 – 0.0011	28.51 – 0.71	0.65 – 0.08	220 – 5
2.1	573	2	0.004	0.00009 – 0.00017	0.0553 – 0.0014	30.44 – 0.73	0.17 – 0.31	208 – 4
3.1	1295	7	0.005	0.00035 – 0.00007	0.0519 – 0.0009	27.98 – 0.63	0.65 – 0.13	224 – 5
4.1	668	3	0.005	0.00050 – 0.00024	0.0587 – 0.0014	28.51 – 0.90	0.93 – 0.44	220 – 6
5.1	633	2	0.004	0.00021 – 0.00017	0.0647 – 0.0016	30.22 – 0.78	0.39 – 0.32	209 – 5
6.1	749	2	0.004	0.00015 – 0.00025	0.0662 – 0.0026	29.38 – 0.74	0.28 – 0.45	215 – 5
7.1	827	3	0.004	0.00039 – 0.00008	0.0550 – 0.0022	29.79 – 0.79	0.72 – 0.14	211 – 5
8.1	676	31	0.047	0.00070 – 0.00021	0.0650 – 0.0018	26.09 – 0.62	1.29 – 0.39	239 – 5
9.1	642	83	0.130	0.00021 – 0.00038	0.0677 – 0.0030	30.76 – 0.75	0.39 – 0.70	205 – 5
10.1	638	2	0.004	0.00032 – 0.00011	0.0673 – 0.0023	30.16 – 0.88	0.59 – 0.20	209 – 6

Number before decimal identifies a specific grain; number after decimal identifies specific analysis within that grain.

²⁰⁴Pb/²⁰⁶Pb, ²⁰⁷Pb/²⁰⁶Pb, ²³⁸U/²⁰⁶Pb ratios are as measured (i.e., no common Pb correction)

^{~206}Pb is the percentage of common Pb as estimated from the difference between the measured ²⁰⁷Pb/²⁰⁶Pb ratio and the extrapolated concordant age (²⁰⁷Pb method).

Age: ²³⁸U/²⁰⁶Pb age corrected for common Pb as given by ^{~206}Pb.

¥ inheritance components

All errors – 1_σ.

Part 2. Complete ⁴⁰Ar/³⁹Ar data.

T: temperature; ⁴⁰Ar: moles of ⁴⁰Ar corrected for blank and reactor-produced ⁴⁰Ar; ⁴⁰Ar*/³⁹Ar_K: ratio of radiogenic ⁴⁰Ar to ³⁹Ar produced by irradiation of ³⁹K; ³⁸Ar/³⁹Ar: ratio of corrected ³⁸Ar and ³⁹Ar; ³⁷Ar/³⁹Ar: ratio of corrected ³⁷Ar and ³⁹Ar; ³⁶Ar/³⁹Ar: ratio of corrected ³⁶Ar and ³⁹Ar; K/Ca: inferred K/Ca ratio; • ³⁹Ar: cumulative ³⁹Ar released; ⁴⁰Ar*: radiogenic fraction of ⁴⁰Ar; t: heating time (minutes) 8. Uncertainties for isochron and spectrum ages include uncertainty in J factor. Alteration minerals are shown in parentheses after their host phase.

T t ⁴⁰Ar ⁴⁰Ar*/³⁹Ar_K ³⁸Ar/³⁹Ar ³⁷Ar/³⁹Ar ³⁶Ar/³⁹Ar K/Ca • ³⁹Ar ⁴⁰Ar* Age (Ma)–1 _

Sample: DS1 muscovite J=0.0046110

600	8	5.30E-14	33.0095	2.10E-02	0.4429	0.0426	1.1	0.01	0.619	162.4 – 3.9
625	8	6.00E-14	29.8155	3.60E-03	0.0798	0.019	6.1	0.023	0.812	190.9 – 1.9
650	8	5.10E-14	28.5194	2.00E-03	0.0456	0.0124	11	0.034	0.872	195.8 – 1.9
675	8	7.10E-14	28.3546	6.30E-04	0.0314	0.0104	16	0.049	0.892	198.9 – 1.9
700	8	1.10E-13	28.0627	1.10E-04	0.0187	0.0082	26	0.073	0.913	201.5 – 1.9
725	8	1.70E-13	28.1487	0.00E+00	0.013	0.0083	38	0.11	0.913	202.0 – 1.9
740	8	1.90E-13	27.0545	0.00E+00	0.0079	0.0042	62	0.154	0.954	202.8 – 1.9
760	8	2.80E-13	26.6914	0.00E+00	0.0063	0.003	78	0.219	0.966	202.7 – 1.9
765	8	2.50E-13	26.2834	0.00E+00	0.0069	0.0016	71	0.278	0.982	202.9 – 1.9
775	8	2.60E-13	26.211	0.00E+00	0.0056	0.0014	87	0.339	0.984	202.7 – 1.9
780	8	2.20E-13	26.2743	0.00E+00	0.007	0.0015	70	0.392	0.984	203.1 – 1.9
790	8	2.40E-13	26.2523	0.00E+00	0.0062	0.0013	79	0.448	0.985	203.3 – 1.9
800	8	2.20E-13	26.2187	0.00E+00	0.0052	0.0012	94	0.5	0.986	203.2 – 1.9

815	8	2.30E-13	26.2219	0.00E+00	0.006	0.0014	82	0.553	0.984	202.9 – 1.9
830	8	2.20E-13	26.3409	0.00E+00	0.0067	0.0016	73	0.606	0.982	203.3 – 1.9
840	8	1.80E-13	26.4017	0.00E+00	0.0052	0.002	94	0.649	0.978	203.0 – 1.9
850	8	1.60E-13	26.5595	0.00E+00	0.0049	0.0024	100	0.685	0.973	203.1 – 1.9
860	8	1.40E-13	26.5883	0.00E+00	0.0068	0.0024	72	0.717	0.973	203.4 – 1.9
880	8	1.50E-13	26.738	0.00E+00	0.0066	0.0027	75	0.753	0.97	203.8 – 1.9
900	8	1.60E-13	26.8044	0.00E+00	0.005	0.0034	98	0.791	0.962	202.7 – 1.9
925	8	1.90E-13	26.7136	0.00E+00	0.0034	0.0027	145	0.834	0.97	203.6 – 1.9
950	8	2.00E-13	26.5322	0.00E+00	0.0043	0.002	115	0.882	0.978	203.8 – 1.9
975	8	2.60E-13	26.3823	0.00E+00	0.0044	0.0012	111	0.943	0.987	204.5 – 1.9
1000	8	1.60E-13	26.401	0.00E+00	0.0043	0.0007	113	0.979	0.992	205.6 – 1.9
1050	8	4.40E-14	27.0199	0.00E+00	0.0143	0.0038	34	0.989	0.958	203.5 – 2.0
1100	8	1.50E-14	26.2952	1.60E-04	0.0269	0.0012	18	0.993	0.987	203.9 – 2.2
1300	8	3.10E-14	26.773	0.00E+00	0.0216	0.0022	23	1	0.976	205.2 – 2.0

Sample: DS41 muscoviteJ=0.0036990

600	8	9.70E-14	34.4215	4.20E-02	0.1354	0.0121	3.6	0.02	0.896	194.9 – 1.9
650	8	7.30E-14	37.7488	3.80E-02	0.11	0.007	4.5	0.034	0.946	223.7 – 2.1
700	8	2.90E-13	39.5453	2.60E-02	0.0763	0.0043	6.4	0.087	0.968	238.8 – 2.3
725	8	4.30E-13	36.3886	3.70E-02	0.1286	0.0044	3.8	0.172	0.964	220.1 – 2.1
740	8	3.80E-13	33.6297	5.00E-02	0.1845	0.0057	2.7	0.252	0.95	201.5 – 2.0
750	8	2.70E-13	31.2756	6.00E-02	0.17	0.0066	2.9	0.315	0.938	185.8 – 1.8
760	8	2.20E-13	30.526	6.40E-02	0.1822	0.007	2.7	0.367	0.932	180.5 – 1.8
770	8	1.70E-13	30.263	6.60E-02	0.1863	0.0072	2.6	0.409	0.93	178.6 – 1.8
775	8	1.40E-13	29.4014	7.20E-02	0.202	0.0081	2.4	0.442	0.919	171.8 – 1.7
780	8	9.90E-14	28.3193	7.90E-02	0.2198	0.0085	2.2	0.467	0.911	164.4 – 1.6
785	8	7.40E-14	27.6826	8.30E-02	0.2307	0.0088	2.1	0.486	0.906	159.9 – 1.6
800	8	7.10E-14	28.4638	7.90E-02	0.2177	0.0085	2.3	0.504	0.912	165.3 – 1.6
815	8	6.80E-14	29.2014	7.40E-02	0.2089	0.008	2.3	0.521	0.919	170.7 – 1.7
830	8	7.10E-14	30.8808	6.50E-02	0.1793	0.007	2.7	0.537	0.933	182.7 – 1.8
840	8	6.10E-14	31.2216	6.40E-02	0.1766	0.0072	2.8	0.551	0.931	184.2 – 1.8
850	8	6.30E-14	32.8321	5.40E-02	0.1528	0.0058	3.2	0.565	0.948	196.5 – 1.9
860	8	6.80E-14	34.3258	4.60E-02	0.1307	0.0051	3.7	0.579	0.956	206.6 – 2.0
890	8	1.20E-13	37.7852	2.60E-02	0.0766	0.0034	6.4	0.602	0.974	230.1 – 2.2
925	8	2.40E-13	40.0976	1.40E-02	0.0419	0.002	12	0.646	0.986	246.1 – 2.3
950	8	3.80E-13	40.7397	9.40E-03	0.0286	0.0014	17	0.713	0.99	250.8 – 2.4
975	8	4.80E-13	41.2321	7.70E-03	0.0231	0.001	21	0.797	0.993	254.4 – 2.4
1000	8	6.30E-13	41.3922	6.30E-03	0.0197	0.0007	25	0.905	0.995	255.7 – 2.4
1030	8	3.30E-13	41.106	9.50E-03	0.0289	0.0012	17	0.963	0.992	253.3 – 2.4
1250	8	1.30E-13	39.0262	2.30E-02	0.0796	0.003	6.2	0.987	0.977	238.0 – 2.2
1400	8	6.10E-14	32.3405	5.50E-02	0.1677	0.0065	2.9	1	0.941	192.4 – 1.9

Sample: DS43 hornblendeJ=0.0044940

500	8	8.80E-14	33.3143	1.30E-02	0.6968	0.049	0.7	0.017	0.565	146.5 – 2.7
600	8	2.10E-13	43.9956	9.10E-03	2.5599	0.0523	0.19	0.048	0.649	217.7 – 2.2
700	8	3.40E-13	46.055	3.00E-03	1.7384	0.0281	0.28	0.097	0.82	282.7 – 2.6
800	8	4.10E-13	44.4825	1.90E-03	0.4154	0.017	1.2	0.156	0.887	294.6 – 2.7
850	8	8.20E-13	40.2091	3.50E-03	1.368	0.0041	0.36	0.288	0.97	291.2 – 2.7
900	8	2.40E-12	38.4774	4.00E-03	1.7463	0.0012	0.28	0.695	0.991	285.3 – 2.6
935	8	6.20E-13	37.9391	4.40E-03	1.9199	0.0003	0.26	0.801	0.998	283.4 – 2.6
960	8	6.10E-14	36.9862	5.70E-03	1.6352	0	0.3	0.812	1	278.0 – 2.6
970	8	3.60E-14	35.1197	6.10E-03	1.7513	0	0.28	0.819	1	264.9 – 2.5
980	8	1.60E-13	36.025	3.80E-03	1.7723	0.0011	0.28	0.847	0.991	268.3 – 2.5
990	8	1.70E-13	35.1124	3.60E-03	1.7168	0.0009	0.29	0.878	0.992	262.4 – 2.5
995	8	1.30E-13	35.7154	3.90E-03	1.7672	0.0013	0.28	0.902	0.989	265.9 – 2.5
1000	8	9.10E-14	36.4511	3.50E-03	1.8203	0.0006	0.27	0.918	0.995	272.5 – 2.5
1010	8	5.10E-14	37.2536	4.40E-03	1.8667	0.0007	0.26	0.927	0.994	277.8 – 2.6
1030	8	2.60E-13	37.6292	3.30E-03	1.9626	0.001	0.25	0.971	0.992	279.8 – 2.6

1050	8	1.60E-13	38.5927	3.20E-03	1.7479	0.0009	0.28	0.998	0.993	286.7 – 2.7
1080	8	1.10E-14	38.9679	1.00E-02	1.8011	0.0031	0.27	1	0.977	284.8 – 3.3
1100	8	1.00E-15	30.4324	3.90E-02	2.363	0.0217	0.21	1	0.79	184.9 – 18.5
1120	8	2.60E-16	13.4297	3.00E-02	2.0572	0.0113	0.24	1	0.752	79.9 – 32.8

Sample: DS48 muscoviteJ=0.0046100

600	8	1.20E-13	30.9623	3.80E-03	0.1932	0.0076	2.5	0.028	0.928	224.4 – 2.2
625	8	7.40E-14	28.8374	0.00E+00	0.0334	0.0012	15	0.047	0.987	222.5 – 2.1
650	8	7.60E-14	29.7565	2.40E-04	0.0278	0.0009	18	0.065	0.991	230.0 – 2.2
675	8	8.60E-14	30.2288	2.70E-04	0.02	0.0001	24	0.086	0.999	235.2 – 2.2
700	8	1.10E-13	30.7398	0.00E+00	0.0099	0.0003	50	0.113	0.997	238.4 – 2.2
725	8	1.50E-13	31.1868	0.00E+00	0.0099	0.0006	49	0.149	0.994	240.9 – 2.3
740	8	1.70E-13	31.3201	0.00E+00	0.0119	0	41	0.189	1	243.2 – 2.3
760	8	2.50E-13	31.4194	0.00E+00	0.0098	0.0002	50	0.248	0.998	243.5 – 2.3
765	8	2.00E-13	31.705	0.00E+00	0.0091	0.001	54	0.295	0.991	243.9 – 2.3
775	8	2.00E-13	31.494	0.00E+00	0.0075	0.0001	66	0.341	0.999	244.3 – 2.3
780	8	1.70E-13	31.8265	0.00E+00	0.0068	0.0011	72	0.381	0.99	244.7 – 2.3
790	8	1.70E-13	31.8069	0.00E+00	0.0066	0.001	75	0.42	0.991	244.7 – 2.3
800	8	1.70E-13	31.7566	0.00E+00	0.0075	0.0009	65	0.459	0.991	244.4 – 2.3
815	8	1.90E-13	31.7469	0.00E+00	0.0065	0.001	76	0.502	0.991	244.2 – 2.3
830	8	2.20E-13	31.8284	0.00E+00	0.0064	0.001	77	0.552	0.99	244.8 – 2.3
840	8	2.20E-13	31.7378	0.00E+00	0.0054	0.0009	91	0.604	0.992	244.4 – 2.3
850	8	2.10E-13	31.5538	0.00E+00	0.0051	0	97	0.654	1	245.0 – 2.3
860	8	2.00E-13	31.7889	0.00E+00	0.0041	0.0008	118	0.7	0.993	245.0 – 2.3
880	8	2.20E-13	31.5634	0.00E+00	0.0037	0	132	0.75	1	245.0 – 2.3
900	8	2.30E-13	31.79	0.00E+00	0.0028	0.0009	172	0.804	0.992	244.8 – 2.3
925	8	2.80E-13	31.7297	0.00E+00	0.0038	0.0002	127	0.869	0.998	245.9 – 2.3
950	8	2.50E-13	31.6844	0.00E+00	0.0037	0	131	0.927	1	245.9 – 2.3
975	8	9.70E-14	31.6081	0.00E+00	0.0037	0.0009	132	0.95	0.992	243.4 – 2.3
1000	8	5.10E-14	31.3459	1.40E-04	0.0073	0.0014	67	0.962	0.987	240.5 – 2.3
1050	8	3.80E-14	31.1404	4.90E-04	0.0152	0.004	32	0.971	0.962	233.3 – 2.3
1100	8	2.70E-14	28.9302	0.00E+00	0.0135	0.0021	36	0.977	0.978	221.2 – 2.2
1300	8	8.30E-14	27.1069	0.00E+00	0.0066	0.0001	74	1	0.999	212.1 – 2.0

Sample: DS51 hornblendeJ=0.0045290

500	8	1.70E-13	35.4528	2.70E-02	0.9116	0.0436	0.54	0.0264	0.637	175.6 – 3.0
600	8	1.60E-13	64.4539	2.80E-02	1.7583	0.0357	0.28	0.03986	0.836	394.0 – 4.4
650	8	1.10E-13	212.0918	5.70E-02	2.987	0.0813	0.16	0.04265	0.887	1111.4 – 8.8
700	8	1.50E-13	271.2186	3.40E-02	2.4409	0.1178	0.2	0.04569	0.872	1313.0 – 9.8
800	8	4.80E-13	266.1158	1.70E-02	1.8027	0.0513	0.27	0.05553	0.943	1369.6 – 9.7
840	8	2.10E-13	180.4066	1.20E-02	1.9859	0.0142	0.25	0.06192	0.977	1058.5 – 8.1
870	8	2.20E-13	171.3742	1.30E-02	2.8092	0.0135	0.17	0.06892	0.977	1017.8 – 7.8
900	8	2.80E-13	202.8285	1.30E-02	5.3937	0.0129	0.091	0.07653	0.981	1159.1 – 8.6
935	2	1.20E-13	237.8941	2.20E-02	6.2801	0.0172	0.078	0.07931	0.979	1298.8 – 9.4
935	6	2.60E-13	196.5872	1.30E-02	6.0842	0.0123	0.081	0.08661	0.982	1132.9 – 8.5
950	2	7.40E-14	184.171	2.10E-02	5.677	0.0131	0.086	0.08883	0.979	1076.9 – 8.3
950	6	2.40E-13	185.1955	8.90E-03	5.2143	0.0093	0.094	0.09592	0.985	1086.5 – 8.2
960	2	6.60E-14	177.3316	1.30E-02	5.1832	0.0083	0.095	0.09798	0.986	1052.4 – 8.2
935	2	2.50E-14	181.7203	3.70E-02	5.7577	0.0011	0.085	0.09873	0.998	1081.7 – 9.1
935	6	7.00E-14	189.9303	1.10E-02	5.6677	0.0036	0.086	0.10076	0.994	1115.0 – 8.5
950	6	8.70E-14	182.558	1.00E-02	5.3181	0.0017	0.092	0.10338	0.997	1084.7 – 8.3
960	6	1.00E-13	175.5287	8.90E-03	5.6553	0.0027	0.087	0.10659	0.995	1051.6 – 8.0
970	2	3.60E-14	158.4515	1.90E-02	5.9271	0.0039	0.083	0.10785	0.993	970.3 – 7.9
970	6	1.20E-13	160.9658	6.90E-03	6.1852	0.0028	0.079	0.11209	0.995	983.9 – 7.6
980	2	5.10E-14	143.0834	6.30E-03	6.2789	0	0.078	0.11406	1	925.2 – 7.5
990	8	5.00E-13	139.5222	4.20E-03	6.3124	0.0042	0.078	0.13371	0.991	877.2 – 7.0
995	8	5.40E-13	133.0932	4.00E-03	6.2515	0.0032	0.078	0.1559	0.993	846.2 – 6.8
1000	8	5.50E-13	128.755	3.10E-03	6.0979	0.0027	0.08	0.17932	0.994	824.6 – 6.6

1010	8	9.30E-13	147.1196	3.30E-03	6.0563	0.0034	0.081	0.21409	0.993	916.2 – 7.2
1030	8	2.00E-12	120.3026	3.00E-03	5.8498	0.0019	0.084	0.30646	0.995	781.6 – 6.4
1050	8	8.00E-12	114.8453	2.90E-03	5.6283	0.0014	0.087	0.69121	0.996	753.3 – 6.2
1080	8	1.60E-12	117.9883	4.80E-03	6.1684	0.0032	0.079	0.76597	0.992	767.3 – 6.3
1100	8	1.70E-12	121.2537	4.70E-03	6.3765	0.0023	0.077	0.84424	0.994	786.0 – 6.4
1120	8	2.80E-12	119.5501	3.00E-03	5.8607	0.002	0.084	0.97212	0.995	777.4 – 6.6
1130	8	5.40E-13	117.6063	4.30E-03	5.9385	0.0013	0.083	0.99756	0.997	768.2 – 6.3
1140	8	5.00E-14	112.0217	1.80E-02	6.2845	0	0.078	1	1	745.3 – 6.4

Sample: DS52 kspar J=0.0046130

450	15	1.60E-13	93.5077	8.30E-03	0.2299	0.0455	2.1	0.00402	0.856	566.9 – 5.1
450	20	2.40E-14	19.3838	7.10E-04	0.1164	0.0038	4.2	0.00691	0.943	146.0 – 1.5
500	20	1.90E-13	35.261	0.00E+00	0.0557	0.0054	8.8	0.01926	0.955	260.5 – 2.4
500	30	6.30E-14	16.2732	0.00E+00	0.0401	0.002	12	0.02813	0.964	126.0 – 1.2
550	15	1.20E-13	22.7378	0.00E+00	0.0239	0.0017	20	0.04061	0.978	176.1 – 1.7
550	20	7.00E-14	17.302	0.00E+00	0.0186	0.0002	26	0.04987	0.996	138.0 – 1.3
600	20	1.70E-13	19.8553	0.00E+00	0.0144	0.0012	34	0.0696	0.983	155.5 – 1.5
600	25	9.80E-14	18.7979	0.00E+00	0.0096	0.0002	51	0.08157	0.997	149.5 – 1.4
650	15	1.30E-13	19.8974	0.00E+00	0.0093	0.0001	53	0.09698	0.998	158.1 – 1.5
650	20	1.10E-13	19.8715	0.00E+00	0.0076	0.0006	65	0.10931	0.99	156.8 – 1.5
700	15	1.80E-13	21.0801	0.00E+00	0.0067	0.0004	73	0.12876	0.994	166.4 – 1.6
750	15	2.70E-13	21.5568	0.00E+00	0.0059	0.0002	83	0.15771	0.998	170.6 – 1.6
775	15	2.20E-13	21.3509	0.00E+00	0.0069	0	71	0.18175	1	169.5 – 1.6
800	15	2.30E-13	21.8876	0.00E+00	0.0064	0.0003	77	0.20538	0.996	172.8 – 1.6
825	15	2.40E-13	22.1518	0.00E+00	0.0084	0.0001	59	0.2299	0.999	175.4 – 1.7
850	15	2.50E-13	22.3039	0.00E+00	0.0087	0.0002	56	0.25541	0.997	176.2 – 1.7
875	15	2.60E-13	22.2747	0.00E+00	0.01	0.0004	49	0.28253	0.995	175.6 – 1.7
900	15	2.90E-13	22.4402	0.00E+00	0.01	0.0003	49	0.31262	0.996	177.1 – 1.7
925	15	3.20E-13	22.9431	0.00E+00	0.0104	0.0003	47	0.34504	0.996	180.8 – 1.7
950	15	3.70E-13	23.485	0.00E+00	0.0095	0.0005	52	0.38086	0.994	184.5 – 1.8
975	15	4.20E-13	23.9543	0.00E+00	0.0106	0.0006	46	0.42099	0.993	187.9 – 1.8
1000	15	4.80E-13	24.5507	0.00E+00	0.0117	0.0007	42	0.46561	0.991	192.0 – 1.8
1025	15	5.40E-13	25.512	0.00E+00	0.0136	0.0009	36	0.51404	0.989	198.7 – 1.9
1050	15	3.50E-13	26.7441	0.00E+00	0.0163	0.0012	30	0.54454	0.986	207.2 – 2.0
1075	15	4.60E-13	27.8638	0.00E+00	0.0179	0.0012	27	0.58224	0.988	215.6 – 2.0
1100	10	5.00E-13	28.8906	0.00E+00	0.0187	0.0012	26	0.62178	0.987	223.0 – 2.1
1100	85	2.50E-12	29.9966	0.00E+00	0.0077	0.0018	64	0.81555	0.982	229.8 – 2.2
1100	145	1.70E-12	33.5637	0.00E+00	0.0035	0.0032	138	0.93164	0.971	252.8 – 2.4
1100	550	9.20E-13	41.3197	0.00E+00	0.0028	0.0156	172	0.98292	0.889	282.3 – 2.6
1150	8	2.10E-14	40.5813	0.00E+00	0.0417	0.0021	12	0.98409	0.985	305.2 – 3.0
1175	8	6.40E-14	41.6584	0.00E+00	0.0053	0.0014	92	0.98763	0.99	314.2 – 2.9
1200	8	1.10E-13	49.919	0.00E+00	0.0072	0.0009	68	0.99249	0.995	372.1 – 3.4
1225	8	8.40E-14	58.6703	0.00E+00	0.0066	0	74	0.99578	1	432.0 – 3.9
1450	57	1.10E-13	59.0525	0.00E+00	0.0174	0.0397	28	1	0.802	356.3 – 3.3

Sample: DS-54 hornblende J=0.0041831

650	15	4.40E-14	438.6529	2.10E-02	7.5836	0.631	0.065	0.000915	0.575	1299.3 – 18.5
750	15	5.80E-14	498.8352	1.50E-02	6.6751	0.7541	0.073	0.00198	0.553	1384.7 – 19.9
850	15	8.20E-14	327.692	1.00E-02	6.035	0.2568	0.081	0.00429	0.768	1297.9 – 7.7
930	15	4.80E-14	138.9073	1.20E-02	10.0002	0.0613	0.049	0.007465	0.869	737.7 – 4.7
960	15	3.80E-14	156.0506	8.30E-03	13.581	0.0547	0.036	0.009725	0.896	831.1 – 6.3
980	15	5.00E-14	146.2307	1.10E-02	10.5064	0.0319	0.047	0.012865	0.936	816.4 – 4.3
990	15	5.10E-14	142.3449	8.80E-03	8.3664	0.0323	0.059	0.01616	0.933	797.0 – 4.1
1000	15	6.50E-14	136.6299	3.60E-03	7.4548	0.0163	0.066	0.02053	0.965	792.2 – 3.8
1010	15	8.80E-14	134.7977	2.70E-03	6.9339	0.0135	0.071	0.02652	0.971	787.4 – 2.9
1020	15	1.20E-13	134.3148	2.90E-03	6.7042	0.0111	0.073	0.03443	0.976	788.5 – 2.7
1030	15	1.60E-13	132.7063	4.10E-03	6.4854	0.0089	0.076	0.045615	0.98	783.8 – 2.4
1040	15	2.40E-13	131.0754	2.70E-03	6.2292	0.0076	0.079	0.0623	0.983	777.7 – 1.9

1050	15	4.10E-13	127.8782	3.20E-03	6.2155	0.008	0.079	0.09144	0.981	761.3 – 1.3
1050	15	2.70E-13	128.4874	2.50E-03	5.9921	0.0057	0.082	0.110825	0.987	767.7 – 1.9
1060	15	4.60E-13	124.5548	3.30E-03	5.9295	0.0071	0.083	0.144535	0.983	746.1 – 1.3
1055	10	1.40E-13	125.7159	9.80E-04	5.8388	0.0048	0.084	0.154975	0.989	755.3 – 2.3
1055	15	2.10E-13	125.5642	2.80E-03	5.8448	0.0042	0.084	0.169995	0.99	755.4 – 2.0
1055	20	2.50E-13	123.9809	1.60E-03	5.7439	0.0041	0.085	0.18869	0.99	747.6 – 1.9
1055	30	4.20E-13	123.1337	4.20E-03	5.9375	0.0057	0.083	0.22002	0.986	741.1 – 1.3
1055	30	4.60E-13	122.7047	1.00E-03	5.814	0.0057	0.084	0.2542	0.986	738.9 – 1.3
1060	10	2.10E-13	122.0552	1.70E-04	5.5871	0.0033	0.088	0.27032	0.992	739.2 – 1.8
1060	15	4.20E-13	120.8193	4.00E-04	5.5839	0.0043	0.088	0.302115	0.99	731.6 – 1.3
1060	10	2.70E-13	121.4511	1.70E-03	5.4891	0.0029	0.089	0.322395	0.993	736.8 – 1.7
1060	10	3.40E-13	122.6043	2.30E-03	5.817	0.0047	0.084	0.347615	0.989	739.9 – 1.3
1060	10	3.40E-13	121.5955	4.10E-03	5.6342	0.0038	0.087	0.37353	0.991	736.3 – 1.3
1060	7	2.10E-13	121.494	9.80E-04	5.4898	0.0031	0.089	0.389255	0.992	736.7 – 2.3
1060	7	2.00E-13	121.7302	2.60E-03	5.4726	0.0032	0.09	0.404155	0.992	737.8 – 1.9
1060	10	2.70E-13	122.3877	1.20E-03	5.49	0.0033	0.089	0.42412	0.992	740.9 – 1.8
1060	10	2.40E-13	121.8076	6.20E-04	5.4915	0.0031	0.089	0.442105	0.993	738.3 – 2.0
1060	10	2.10E-13	122.4429	4.60E-04	5.5565	0.0033	0.088	0.457895	0.992	741.2 – 2.3
1060	12	2.10E-13	122.441	2.40E-03	5.4391	0.0035	0.09	0.47352	0.992	740.9 – 2.0
1060	15	2.00E-13	123.193	2.00E-03	5.4991	0.0043	0.089	0.48863	0.99	743.4 – 2.1
1065	10	1.50E-13	123.0428	2.30E-03	5.5975	0.0035	0.088	0.5	0.992	743.9 – 2.3
1070	10	1.80E-13	122.9481	1.30E-03	5.5799	0.0033	0.088	0.51392	0.992	743.7 – 2.0
1080	10	3.30E-13	122.0759	1.60E-03	5.4852	0.004	0.089	0.53977	0.99	738.3 – 1.3
1080	10	2.10E-13	122.9883	1.40E-03	5.4872	0.0034	0.089	0.556465	0.992	743.7 – 2.0
1085	10	2.10E-13	123.4715	1.40E-03	5.5097	0.0035	0.089	0.573095	0.992	746.0 – 2.1
1090	10	2.00E-13	123.9649	1.10E-03	5.4934	0.0037	0.089	0.588455	0.991	748.3 – 2.3
1095	10	1.50E-13	123.1097	9.30E-04	5.6377	0.004	0.087	0.59992	0.99	743.5 – 2.5
1100	10	1.20E-13	123.6313	1.70E-03	5.5087	0.0039	0.089	0.60927	0.991	746.2 – 2.3
1105	10	1.20E-13	123.6137	2.30E-03	5.5939	0.0017	0.088	0.61888	0.996	749.4 – 2.5
1110	10	1.30E-13	123.072	1.90E-04	5.4881	0.002	0.089	0.629285	0.995	746.3 – 2.5
1115	10	1.60E-13	122.6429	2.60E-03	5.5468	0.002	0.088	0.64148	0.995	744.1 – 2.3
1120	10	1.80E-13	123.0067	1.50E-03	5.5386	0.0023	0.088	0.65573	0.995	745.5 – 2.0
1125	10	2.10E-13	122.8902	1.10E-03	5.5337	0.002	0.089	0.67201	0.995	745.4 – 2.1
1130	10	3.40E-13	122.8419	5.60E-04	5.5444	0.0049	0.088	0.698625	0.988	740.8 – 1.3
1130	10	2.10E-13	122.877	6.50E-04	5.4736	0.0016	0.09	0.715265	0.996	745.9 – 2.0
1135	10	2.60E-13	123.0119	1.60E-03	5.4819	0.0018	0.089	0.73576	0.996	746.3 – 1.9
1138	10	2.50E-13	122.4913	1.40E-03	5.5503	0.0016	0.088	0.754915	0.996	744.0 – 1.9
1141	10	2.30E-13	122.0889	1.40E-03	5.4504	0.0013	0.09	0.77295	0.997	742.4 – 1.9
1143	10	2.20E-13	122.1331	7.80E-04	5.4824	0.0015	0.089	0.79	0.996	742.2 – 2.0
1145	10	1.80E-13	122.1781	3.10E-04	5.4221	0.0011	0.09	0.804425	0.997	743.2 – 2.1
1150	10	2.10E-13	122.3858	1.70E-03	5.4651	0.0012	0.09	0.8211	0.997	744.1 – 1.9
1155	10	2.70E-13	122.7899	8.30E-04	5.4521	0.0013	0.09	0.842205	0.997	745.8 – 1.9
1160	10	3.30E-13	122.7416	6.80E-04	5.4799	0.0039	0.089	0.867855	0.991	741.8 – 1.3
1160	10	1.80E-13	122.2731	1.30E-03	5.4348	0.0008	0.09	0.882225	0.998	744.0 – 2.1
1165	10	3.30E-13	122.6339	6.90E-04	5.5059	0.0039	0.089	0.90804	0.99	741.2 – 1.3
1168	10	2.10E-13	121.7216	9.50E-04	5.5984	0.0005	0.088	0.92442	0.999	741.7 – 2.1
1171	10	3.20E-13	121.47	3.90E-04	5.683	0.0049	0.086	0.949535	0.988	733.9 – 1.3
1172	10	7.60E-14	122.4888	0.00E+00	5.7739	0	0.085	0.955485	1	750.0 – 3.0
1174	10	3.20E-14	120.5624	0.00E+00	6.0481	0	0.081	0.957995	1	748.0 – 4.6
1180	10	3.20E-14	120.2089	8.60E-04	5.9392	0	0.083	0.960575	1	744.8 – 4.5
1200	10	1.20E-13	125.2799	1.90E-03	6.8248	0	0.072	0.969895	1	760.5 – 2.5
1225	10	1.30E-13	126.0216	3.60E-04	7.4951	0	0.065	0.979665	1	764.2 – 2.4
1280	10	1.30E-13	123.0107	1.30E-03	6.115	0	0.08	0.98964	1	750.3 – 2.4
1350	10	1.30E-13	123.715	4.00E-04	5.7003	0.0017	0.086	1	0.996	749.8 – 2.5
Sample: DS84 muscoviteJ=0.0075000										
650	8	1.10E-13	34.6505	2.90E-02	0.0842	0.0449	5.8	0.016	0.617	268.4 – 1.2
700	8	1.70E-13	30.0284	4.80E-03	0.0149	0.0129	33	0.045	0.873	323.9 – 0.5

750	8	1.60E-12	29.2937	1.50E-03	0.0048	0.001	103	0.309	0.99	354.9 - 0.4
775	8	1.20E-12	29.4302	2.20E-03	0.0061	0.0007	80	0.514	0.993	357.5 - 0.4
800	8	7.80E-13	29.3221	2.80E-03	0.0076	0.0009	65	0.647	0.991	355.5 - 0.4
825	8	4.90E-13	29.1734	3.30E-03	0.0089	0.0013	55	0.73	0.987	352.7 - 0.4
850	8	2.90E-13	28.512	3.80E-03	0.0104	0.0018	47	0.781	0.981	343.7 - 0.4
865	8	2.00E-13	28.3558	5.60E-03	0.0131	0.0026	38	0.816	0.973	339.4 - 0.5
880	8	1.80E-13	28.4167	4.30E-03	0.0118	0.0019	42	0.848	0.98	342.2 - 0.5
890	8	1.50E-13	28.4318	4.50E-03	0.0128	0.0021	38	0.874	0.978	341.7 - 0.5
900	8	1.30E-13	28.5119	4.70E-03	0.013	0.002	38	0.897	0.979	342.9 - 0.5
910	8	1.30E-13	28.789	4.50E-03	0.0128	0.0019	38	0.919	0.981	346.5 - 0.5
920	8	1.30E-13	29.1705	4.80E-03	0.0135	0.0033	36	0.941	0.966	346.0 - 0.7
935	8	1.20E-13	29.48	5.40E-03	0.015	0.0025	33	0.962	0.975	352.3 - 0.5
950	8	6.20E-14	29.1458	9.40E-03	0.0268	0.004	18	0.973	0.959	343.5 - 0.8
975	8	2.90E-14	28.504	1.50E-02	0.0437	0.0091	11	0.978	0.906	319.4 - 1.4
1000	8	2.20E-14	28.5268	2.10E-02	0.0597	0.0096	8.2	0.982	0.901	317.9 - 2.0
1030	8	2.10E-14	29.3882	2.00E-02	0.0517	0.0122	9.5	0.986	0.878	319.0 - 2.4
1060	8	1.20E-14	28.1006	3.50E-02	0.085	0.0196	5.8	0.988	0.794	279.2 - 4.0
1100	8	1.20E-14	29.1031	4.30E-02	0.1037	0.0329	4.7	0.99	0.666	244.7 - 3.5
1130	8	8.80E-15	27.6574	4.20E-02	0.1091	0.0266	4.5	0.991	0.716	249.7 - 6.9
1160	8	7.80E-15	29.2174	6.20E-02	0.1457	0.038	3.4	0.993	0.615	228.1 - 4.8
1190	8	1.40E-14	70.6828	7.70E-02	0.1769	0.196	2.8	0.994	0.18	164.7 - 14.1
1250	8	9.60E-15	29.5279	4.70E-02	0.1032	0.0342	4.7	0.995	0.657	245.1 - 4.0
1400	8	3.20E-14	33.7211	1.90E-02	0.0471	0.0214	10	1	0.813	337.2 - 1.6

Sample: DS99 muscovite J=0.0046120

600	8	5.90E-14	28.7385	1.80E-03	0.1181	0.022	4.1	0.009	0.774	176.1 - 1.8
625	8	3.80E-14	22.8825	1.20E-04	0.0217	0.0096	23	0.017	0.876	159.5 - 1.6
650	8	4.60E-14	22.1634	0.00E+00	0.0083	0.0056	59	0.026	0.926	163.1 - 1.6
675	8	5.90E-14	23.4679	0.00E+00	0.0078	0.0088	63	0.038	0.889	165.7 - 1.6
700	8	7.40E-14	24.7688	0.00E+00	0.0068	0.0117	72	0.052	0.86	169.1 - 1.6
725	8	1.20E-13	26.6573	0.00E+00	0.0048	0.0156	103	0.072	0.828	174.8 - 1.7
740	8	1.80E-13	25.7913	0.00E+00	0.0046	0.0098	107	0.104	0.888	181.1 - 1.7
760	8	3.30E-13	25.4021	0.00E+00	0.003	0.0067	161	0.163	0.922	185.0 - 1.8
765	8	2.50E-13	24.563	0.00E+00	0.0029	0.0035	170	0.211	0.958	185.9 - 1.8
775	8	2.80E-13	24.444	0.00E+00	0.0035	0.0028	141	0.262	0.966	186.6 - 1.8
780	8	2.50E-13	24.2661	0.00E+00	0.0028	0.002	176	0.309	0.975	186.9 - 1.8
790	8	2.50E-13	24.2068	0.00E+00	0.0042	0.0016	116	0.358	0.98	187.3 - 1.8
800	8	2.40E-13	24.156	0.00E+00	0.0043	0.0017	115	0.403	0.98	186.9 - 1.8
815	8	2.60E-13	24.0065	0.00E+00	0.0042	0.0013	117	0.451	0.984	186.5 - 1.8
830	8	2.40E-13	23.9569	0.00E+00	0.0052	0.0014	94	0.498	0.983	185.9 - 1.8
840	8	2.00E-13	24.0113	0.00E+00	0.0042	0.0017	116	0.537	0.979	185.6 - 1.8
850	8	1.60E-13	23.9825	0.00E+00	0.006	0.0022	82	0.568	0.972	184.3 - 1.8
860	8	1.40E-13	23.9027	0.00E+00	0.0094	0.0027	52	0.594	0.967	182.7 - 1.7
880	8	1.60E-13	24.0554	0.00E+00	0.0166	0.0037	29	0.624	0.955	181.6 - 1.7
900	8	2.00E-13	24.1967	0.00E+00	0.0137	0.0037	36	0.662	0.955	182.7 - 1.7
925	8	2.80E-13	24.4622	0.00E+00	0.0041	0.0038	120	0.715	0.954	184.4 - 1.8
950	8	4.20E-13	24.2232	0.00E+00	0.0032	0.0028	153	0.794	0.966	184.9 - 1.8
975	8	4.70E-13	23.7623	0.00E+00	0.0026	0.0016	185	0.885	0.98	183.9 - 1.7
1000	8	4.20E-13	23.5648	0.00E+00	0.0037	0.0008	131	0.966	0.99	184.4 - 1.8
1050	8	7.00E-14	23.3039	0.00E+00	0.0326	0.0013	15	0.98	0.984	181.3 - 1.7
1100	8	2.80E-14	22.2731	0.00E+00	0.1306	0.0031	3.8	0.986	0.959	169.5 - 1.7
1300	8	6.30E-14	20.66	0.00E+00	0.0758	0.0018	6.5	1	0.974	160.1 - 1.6

Sample: DS101 kspar J=0.0036100

450	15	6.10E-14	18.501	8.70E-02	0.2972	0.0099	1.6	0.00327	0.841	98.5 - 1.0
500	20	3.10E-13	27.5555	2.30E-02	0.0827	0.0033	5.9	0.01438	0.965	165.3 - 1.6
500	30	1.30E-13	15.7365	1.40E-02	0.0546	0.0019	9	0.0228	0.965	96.3 - 0.9
550	15	1.10E-12	48.2313	1.20E-02	0.0371	0.0024	13	0.04546	0.985	285.6 - 2.7

550	20	2.90E-13	20.5348	8.70E-03	0.0322	0.0013	15	0.05921	0.982	126.7 – 1.2
600	20	6.80E-13	23.8582	4.70E-03	0.0175	0.0009	28	0.08727	0.988	147.4 – 1.4
600	25	3.00E-13	15.7772	3.50E-03	0.0148	0.0006	33	0.10624	0.99	98.9 – 1.0
650	15	3.70E-13	16.2623	3.70E-03	0.0154	0.0006	32	0.1289	0.989	101.9 – 1.0
650	20	2.60E-13	14.5105	3.30E-03	0.0143	0.0005	34	0.14677	0.989	91.1 – 0.9
700	15	3.60E-13	15.0456	3.00E-03	0.0131	0.0005	37	0.17008	0.99	94.5 – 0.9
700	25	3.00E-13	14.4542	2.10E-03	0.0105	0.0004	47	0.19084	0.991	91.0 – 0.9
750	15	3.10E-13	14.8019	2.50E-03	0.0115	0.0005	43	0.2113	0.991	93.1 – 0.9
775	15	2.90E-13	14.7354	2.60E-03	0.0122	0.0005	40	0.23094	0.99	92.6 – 0.9
800	15	2.80E-13	14.8545	2.70E-03	0.0123	0.0005	40	0.24935	0.99	93.3 – 0.9
825	15	2.60E-13	14.9492	2.60E-03	0.0121	0.0005	41	0.2666	0.99	93.9 – 0.9
850	15	2.70E-13	15.1809	2.30E-03	0.0118	0.0005	42	0.28392	0.991	95.4 – 0.9
875	15	2.70E-13	15.1676	2.60E-03	0.0117	0.0005	42	0.30117	0.99	95.3 – 0.9
900	15	2.80E-13	15.6237	1.80E-03	0.0101	0.0005	48	0.31906	0.991	98.1 – 1.0
925	15	3.20E-13	16.3555	2.10E-03	0.0099	0.0006	50	0.33835	0.988	102.3 – 1.0
950	15	3.70E-13	17.0106	2.10E-03	0.0092	0.0007	53	0.35996	0.988	106.3 – 1.0
975	15	4.60E-13	17.9041	1.60E-03	0.0085	0.0006	58	0.38504	0.99	111.9 – 1.1
1000	15	5.80E-13	19.0124	1.40E-03	0.0078	0.0007	63	0.41496	0.989	118.5 – 1.1
1025	15	7.30E-13	20.0927	1.40E-03	0.0076	0.0007	64	0.45051	0.989	125.0 – 1.2
1050	15	9.10E-13	20.8257	1.60E-03	0.0077	0.0007	63	0.49339	0.99	129.5 – 1.3
1075	15	1.40E-12	20.5583	1.30E-03	0.0074	0.0006	66	0.55902	0.991	128.1 – 1.2
1100	10	7.80E-13	20.1836	1.50E-03	0.0095	0.0006	52	0.59694	0.992	125.8 – 1.2
1100	85	1.80E-12	21.1217	1.60E-04	0.0034	0.0003	143	0.67982	0.995	132.0 – 1.3
1100	145	1.30E-12	23.0818	0.00E+00	0.0017	0.0003	293	0.73508	0.996	143.8 – 1.5
1100	550	2.00E-12	25.074	0.00E+00	0.0009	0.0006	525	0.81268	0.993	155.3 – 1.5
1150	8	2.80E-13	25.8498	0.00E+00	0.0001	0.0004	5117	0.82332	0.995	160.2 – 1.5
1175	8	2.40E-13	27.9112	0.00E+00	0.0001	0.0005	4025	0.83169	0.995	172.3 – 1.6
1200	8	1.00E-12	27.9865	3.70E-05	0.0024	0.0004	203	0.867	0.995	172.9 – 1.7
1225	8	2.10E-12	28.4894	5.20E-04	0.0039	0.0005	125	0.941	0.995	175.7 – 1.7
1350	8	1.80E-12	29.263	8.20E-04	0.0051	0.0005	96	1	0.995	180.3 – 1.7

Sample: DS105 muscoviteJ=0.0046070

600	8	2.60E-14	19.9401	3.30E-03	0.2262	0.0158	2.2	0.012	0.767	122.8 – 2.0
625	8	1.50E-14	19.7987	0.00E+00	0.1016	0.0068	4.8	0.019	0.899	142.1 – 2.1
650	8	1.70E-14	19.5682	7.20E-04	0.0132	0.0038	37	0.027	0.943	147.1 – 2.0
690	8	2.90E-14	20.4152	1.70E-04	0.0171	0.0051	29	0.04	0.926	150.7 – 1.6
725	8	5.00E-14	22.0038	0.00E+00	0.0171	0.0061	29	0.061	0.918	160.6 – 1.6
740	8	6.80E-14	23.6214	0.00E+00	0.0104	0.006	47	0.088	0.925	173.1 – 1.7
760	8	1.00E-13	23.3041	0.00E+00	0.0054	0.0038	91	0.13	0.951	175.5 – 1.7
765	8	7.90E-14	22.3966	0.00E+00	0.0062	0.0022	79	0.163	0.971	172.3 – 1.7
777	8	9.70E-14	22.8764	0.00E+00	0.0022	0.0025	228	0.202	0.968	175.2 – 1.7
790	8	1.10E-13	22.7556	0.00E+00	0.0087	0.0018	56	0.247	0.976	175.7 – 1.7
800	8	1.10E-13	22.6806	0.00E+00	0.0015	0.0015	329	0.294	0.98	175.9 – 1.7
815	8	1.50E-13	22.6804	0.00E+00	0.004	0.0012	122	0.355	0.984	176.6 – 1.7
830	8	1.40E-13	22.4827	0.00E+00	0.0042	0.001	117	0.414	0.987	175.6 – 1.7
840	8	1.00E-13	22.2832	0.00E+00	0.0053	0.0011	92	0.456	0.986	173.9 – 1.7
850	8	8.00E-14	22.4611	0.00E+00	0.0112	0.0016	44	0.49	0.979	174.0 – 1.7
860	8	6.80E-14	22.5514	0.00E+00	0.0113	0.0015	43	0.518	0.981	175.1 – 1.7
880	8	8.00E-14	22.8114	0.00E+00	0.0009	0.0018	533	0.551	0.977	176.3 – 1.7
900	8	9.40E-14	23.0056	0.00E+00	0.0007	0.0019	751	0.589	0.975	177.5 – 1.7
925	8	1.30E-13	23.2557	0.00E+00	0.0001	0.0022	4917	0.639	0.972	178.7 – 1.7
950	8	1.60E-13	23.3964	0.00E+00	0.0038	0.002	128	0.705	0.975	180.2 – 1.7
960	8	1.50E-13	23.2803	0.00E+00	0.007	0.0014	70	0.764	0.982	180.7 – 1.7
970	8	1.40E-13	23.2428	0.00E+00	0.0005	0.001	905	0.819	0.987	181.2 – 1.7
980	8	1.30E-13	23.0776	0.00E+00	0.0095	0.0007	52	0.872	0.991	180.7 – 1.7
1000	8	1.60E-13	23.2026	0.00E+00	0.0057	0.0007	86	0.935	0.991	181.7 – 1.7
1050	8	8.60E-14	23.0801	0.00E+00	0.003	0.0011	161	0.97	0.985	179.7 – 1.8
1100	8	1.30E-14	21.2131	0.00E+00	0.0471	0.0026	10	0.975	0.963	162.3 – 2.2

1300	8	6.00E-14	22.6752	0.00E+00	0.0065	0.0015	75	1	0.98	175.8 – 1.7
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Sample: DS106 biotiteJ=0.0036220

450	8	5.00E-14	48.9724	1.60E-02	0.0077	0.0259	63	0.014	0.844	251.6 – 2.5
500	8	1.30E-13	34.3781	1.00E-02	0.0287	0.0073	17	0.064	0.937	199.1 – 2.0
550	8	1.80E-13	32.8772	7.20E-03	0.0215	0.002	23	0.136	0.982	199.5 – 1.9
600	8	2.70E-13	32.699	5.00E-03	0.027	0.0013	18	0.248	0.989	199.7 – 1.9
626	8	2.80E-13	32.4717	3.50E-03	0.0247	0.0009	20	0.365	0.992	199.1 – 1.9
650	8	2.60E-13	32.3827	2.90E-03	0.0123	0.0009	40	0.474	0.992	198.6 – 1.9
675	8	2.10E-13	32.3476	2.00E-03	0.0109	0.0006	45	0.563	0.995	198.9 – 1.9
700	8	1.60E-13	32.3191	1.60E-03	0.0095	0.0005	52	0.628	0.996	198.9 – 1.9
725	8	9.40E-14	32.4711	1.10E-03	0.0074	0.0007	66	0.668	0.994	199.4 – 1.9
750	8	7.80E-14	32.882	6.80E-04	0.0004	0.0019	1381	0.699	0.983	199.7 – 1.9
775	8	6.30E-14	32.6666	1.20E-03	0.0055	0.0014	90	0.726	0.988	199.4 – 1.9
800	8	5.00E-14	32.5036	0.00E+00	-0.0042	0.0006	>10000	0.746	0.995	199.7 – 1.9
825	8	4.30E-14	32.4915	1.80E-03	0.0084	0.0011	59	0.764	0.99	198.8 – 1.9
850	8	4.30E-14	32.944	0.00E+00	-0.0001	0.0022	>10000	0.782	0.98	199.5 – 1.9
875	8	4.80E-14	32.6759	0.00E+00	-0.0008	0.0013	>10000	0.802	0.988	199.6 – 1.9
900	8	6.60E-14	32.4898	0.00E+00	0.0013	0.0008	368	0.829	0.993	199.4 – 1.9
925	8	6.10E-14	32.4297	0.00E+00	-0.0069	0.0009	>10000	0.854	0.992	198.8 – 1.9
950	8	6.70E-14	32.4037	0.00E+00	0.0223	0.0003	22	0.882	0.998	199.8 – 1.9
975	8	6.80E-14	32.9196	0.00E+00	0.0182	0.0022	27	0.91	0.98	199.4 – 1.9
1000	8	6.40E-14	32.5058	0.00E+00	0.0168	0.0013	29	0.936	0.988	198.5 – 1.9
1025	8	5.60E-14	32.4206	0.00E+00	0.0167	0.0002	29	0.959	0.998	199.9 – 1.9
1050	8	4.80E-14	32.4261	0.00E+00	0.0133	0.0001	37	0.979	0.999	200.2 – 1.9
1075	8	2.40E-14	32.6533	0.00E+00	0.0286	0.0013	17	0.989	0.988	199.4 – 2.1
1100	8	1.10E-14	37.4768	0.00E+00	0.0648	0.0018	7.6	0.993	0.986	226.6 – 2.9
1200	8	1.20E-14	35.0973	0.00E+00	0.0715	0.0119	6.8	0.998	0.9	195.4 – 2.5
1400	8	1.20E-14	76.1471	0.00E+00	0.2201	0.0434	2.2	1	0.832	372.6 – 6.6

Sample: DS106 kspar J=0.0036280

450	15	6.90E-13	165.9748	6.40E-04	0.035	0.0085	14	0.00532	0.985	840.0 – 6.8
450	15	2.00E-14	19.8012	8.00E-04	0.0606	0.0029	8.1	0.00662	0.956	119.9 – 1.2
500	20	2.30E-13	49.9571	0.00E+00	0.0182	0.0032	27	0.01241	0.981	295.2 – 2.7
500	30	4.50E-14	16.7664	0.00E+00	0.0151	0.0025	32	0.01582	0.956	101.9 – 1.0
550	15	9.20E-14	28.898	0.00E+00	0.0085	0.0015	58	0.0199	0.985	177.3 – 1.7
550	20	3.80E-14	15.966	0.00E+00	0.0103	0.0014	48	0.02299	0.974	99.0 – 1.0
600	20	1.60E-13	25.3401	0.00E+00	0.0084	0.0012	58	0.03101	0.986	156.5 – 1.5
600	25	5.70E-14	15.732	0.00E+00	0.0057	0.0011	85	0.03569	0.978	98.0 – 1.0
650	15	1.20E-13	20.8201	0.00E+00	0.0027	0.0011	179	0.04303	0.984	129.3 – 1.3
650	20	6.30E-14	15.4614	0.00E+00	0.004	0.0009	123	0.04824	0.984	96.9 – 1.0
700	15	1.50E-13	20.5806	0.00E+00	0.0038	0.0011	131	0.05784	0.985	128.0 – 1.2
700	25	8.60E-14	15.4502	0.00E+00	0.0046	0.001	106	0.06498	0.981	96.6 – 0.9
750	15	1.20E-13	17.8686	0.00E+00	0.0034	0.0008	146	0.07356	0.986	111.8 – 1.1
775	15	9.80E-14	15.849	0.00E+00	0.0025	0.0006	194	0.08154	0.988	99.7 – 1.0
800	15	9.50E-14	15.878	0.00E+00	0.0033	0.0008	147	0.08925	0.986	99.6 – 1.0
825	15	9.40E-14	16.0347	0.00E+00	0.0026	0.0007	188	0.09678	0.987	100.7 – 1.0
850	15	1.00E-13	16.7372	0.00E+00	0.0038	0.001	128	0.10463	0.983	104.6 – 1.0
875	15	1.10E-13	17.7075	0.00E+00	0.0029	0.0009	167	0.11256	0.984	110.6 – 1.1
900	15	1.30E-13	19.4119	0.00E+00	0.0022	0.0012	221	0.12115	0.981	120.5 – 1.2
925	15	1.70E-13	21.8303	0.00E+00	0.0025	0.0015	194	0.13108	0.98	134.9 – 1.3
950	15	2.30E-13	24.559	0.00E+00	0.0021	0.0016	232	0.14298	0.981	151.1 – 1.5
975	15	3.50E-13	27.1124	0.00E+00	0.0023	0.0016	217	0.1596	0.983	166.5 – 1.6
1000	15	5.40E-13	28.6814	0.00E+00	0.0027	0.0014	181	0.18388	0.986	176.2 – 1.7
1025	15	8.40E-13	29.5413	0.00E+00	0.0029	0.0011	170	0.2205	0.989	181.8 – 1.7
1050	15	7.50E-13	28.8455	0.00E+00	0.0023	0.0008	213	0.25366	0.991	178.1 – 1.7
1075	15	1.10E-12	29.4384	0.00E+00	0.0032	0.0006	154	0.30207	0.994	181.9 – 1.7
1100	10	9.10E-13	29.2296	0.00E+00	0.0032	0.0005	153	0.34192	0.995	181.0 – 1.7

1100	85	3.00E-12	28.269	0.00E+00	0.0022	0.0005	222	0.48025	0.994	175.2 – 1.7
1100	145	2.60E-12	29.8063	0.00E+00	0.0022	0.0007	226	0.59218	0.993	184.0 – 1.8
1100	250	2.20E-12	31.4272	0.00E+00	0.0021	0.0012	239	0.68279	0.988	192.6 – 1.8
1150	8	2.30E-13	32.9551	0.00E+00	0.0071	0.0001	69	0.69166	0.999	203.5 – 1.9
1175	8	1.00E-12	33.5083	0.00E+00	0.0029	0.0004	167	0.73083	0.997	206.3 – 2.0
1225	8	4.10E-12	32.9127	0.00E+00	0.0029	0.0003	169	0.89164	0.997	202.9 – 1.9
1200	8	2.70E-12	32.3375	0.00E+00	0.0035	0.0003	139	1	0.997	199.6 – 1.9

Sample: DS108 muscoviteJ=0.0045960

600	8	6.90E-15	26.199	1.60E-02	0.3351	0.0207	1.5	0.002	0.767	159.2 – 4.0
650	8	1.00E-14	25.5751	6.00E-03	0.1227	0.0093	4	0.006	0.892	179.9 – 2.5
700	8	2.50E-14	27.7369	8.80E-04	0.0378	0.0095	13	0.015	0.899	195.7 – 1.9
740	8	3.90E-14	26.0826	0.00E+00	0.0073	0.0041	67	0.029	0.953	195.2 – 1.9
765	8	5.10E-14	27.2659	0.00E+00	0.0048	0.0082	101	0.046	0.911	195.1 – 1.8
780	8	5.40E-14	26.3911	0.00E+00	0.0032	0.0054	151	0.066	0.94	194.8 – 1.8
800	8	1.10E-13	26.3333	0.00E+00	0.0017	0.005	283	0.105	0.944	195.2 – 1.8
815	8	1.90E-13	25.5871	0.00E+00	0.0011	0.0025	456	0.176	0.972	195.2 – 1.8
830	8	2.10E-13	25.2188	0.00E+00	0.0012	0.0014	404	0.255	0.984	194.8 – 1.8
850	8	2.80E-13	25.0461	0.00E+00	0.0009	0.0009	570	0.361	0.99	194.7 – 1.8
880	8	2.80E-13	24.9179	0.00E+00	0.0011	0.0005	440	0.465	0.994	194.5 – 1.8
915	8	2.10E-13	25.0247	0.00E+00	0.0014	0.0007	358	0.543	0.991	194.8 – 1.8
950	8	1.60E-13	25.2891	0.00E+00	0.0011	0.0016	432	0.603	0.981	194.8 – 1.8
1000	8	3.20E-13	25.2135	0.00E+00	0.0008	0.0015	635	0.722	0.983	194.5 – 1.8
1050	8	6.90E-13	24.9389	0.00E+00	0.0007	0.0004	691	0.981	0.995	194.8 – 1.8
1100	8	5.10E-14	25.1106	0.00E+00	0.0107	0.0001	46	1	0.999	196.8 – 1.8

Sample: DS109 muscoviteJ=0.0046090

600	8	1.30E-14	35.2766	0.00E+00	0.0261	0.0009	19	0.002	0.992	269.8 – 2.9
625	8	3.00E-14	37.7511	0.00E+00	0.0061	0.0084	81	0.007	0.934	271.6 – 2.6
650	8	4.10E-14	38.0206	0.00E+00	0.0091	0.0081	54	0.013	0.937	274.3 – 2.6
690	8	8.00E-14	37.7289	0.00E+00	0.0023	0.0086	216	0.026	0.933	271.1 – 2.5
725	8	1.20E-13	37.5019	0.00E+00	0.003	0.0084	164	0.045	0.934	269.9 – 2.5
740	8	1.20E-13	37.7633	0.00E+00	0.0025	0.0102	194	0.063	0.92	267.9 – 2.5
760	8	1.60E-13	40.8746	0.00E+00	0.0005	0.0215	1008	0.087	0.845	266.4 – 2.5
765	8	1.60E-13	38.9302	0.00E+00	0.0017	0.0157	293	0.111	0.881	264.8 – 2.5
777	8	2.30E-13	37.9683	0.00E+00	0.0018	0.0127	265	0.147	0.901	264.1 – 2.5
790	8	4.10E-13	36.3283	0.00E+00	0.0047	0.0067	105	0.214	0.945	265.0 – 2.5
800	8	4.90E-13	35.703	0.00E+00	0.0058	0.0038	84	0.295	0.968	266.7 – 2.5
815	8	7.20E-13	35.7076	0.00E+00	0.0048	0.0029	101	0.416	0.976	268.6 – 2.5
830	8	8.80E-13	35.6858	0.00E+00	0.0049	0.0026	101	0.562	0.979	269.3 – 2.5
840	8	6.20E-13	35.6016	0.00E+00	0.0051	0.0029	97	0.667	0.976	268.0 – 2.5
850	8	4.10E-13	35.5021	0.00E+00	0.0063	0.0036	78	0.736	0.97	265.7 – 2.5
860	8	2.80E-13	35.2164	0.00E+00	0.0072	0.0044	68	0.783	0.963	262.1 – 2.4
880	8	2.50E-13	35.4311	0.00E+00	0.0067	0.0053	73	0.825	0.956	261.6 – 2.4
900	8	2.40E-13	35.1662	0.00E+00	0.0055	0.0053	89	0.866	0.955	259.7 – 2.4
925	8	2.40E-13	34.2394	0.00E+00	0.0052	0.0041	94	0.908	0.964	255.5 – 2.4
950	8	2.00E-13	33.2603	0.00E+00	0.0085	0.003	58	0.943	0.973	250.8 – 2.3
960	8	1.20E-13	33.1129	0.00E+00	0.0078	0.0016	63	0.966	0.986	252.8 – 2.4
970	8	8.80E-14	33.1246	0.00E+00	0.0106	0.0013	46	0.981	0.988	253.5 – 2.4
980	8	5.90E-14	33.2728	0.00E+00	0.0011	0.0004	451	0.992	0.996	256.5 – 2.4
1000	8	4.50E-14	33.6984	0.00E+00	0.004	0.0009	122	1	0.992	258.4 – 2.4

Sample: DS110 biotiteJ=0.0037170

700	8	1.30E-14	35.8695	0.00E+00	0.0224	0.0014	22	0.017	0.989	223.3 – 2.7
750	8	1.20E-14	34.0848	0.00E+00	0.07	0.0015	7	0.033	0.987	212.6 – 2.4
800	8	2.50E-14	33.618	0.00E+00	0.0843	0.0021	5.8	0.067	0.982	208.8 – 2.1
825	8	3.60E-14	34.9536	0.00E+00	0.0463	0.0025	11	0.115	0.979	216.0 – 2.2
850	8	5.10E-14	34.2355	0.00E+00	0.0315	0.0004	16	0.183	0.997	215.4 – 2.1

875	8	6.80E-14	34.597	0.00E+00	0.0364	0.0011	13	0.273	0.991	216.4 - 2.1
900	8	7.10E-14	34.232	0.00E+00	0.0585	0.0001	8.4	0.368	0.999	216.0 - 2.1
925	8	7.50E-14	34.2303	5.30E-04	0.1104	0.0002	4.4	0.469	0.998	215.7 - 2.1
950	8	8.10E-14	34.669	4.90E-04	0.184	0.0013	2.7	0.576	0.989	216.3 - 2.1
975	8	7.10E-14	34.4138	0.00E+00	0.2968	0.0009	1.7	0.671	0.992	215.5 - 2.1
1000	8	8.10E-14	34.4309	0.00E+00	0.6203	0.0007	0.79	0.779	0.994	216.0 - 2.1
1025	8	6.60E-14	34.778	0.00E+00	0.1475	0.0021	3.3	0.866	0.982	215.6 - 2.2
1050	8	2.90E-14	35.5656	0.00E+00	0.0887	0.0041	5.5	0.903	0.966	216.9 - 2.1
1075	8	2.10E-14	35.4606	9.50E-04	0.1546	0.0023	3.2	0.931	0.981	219.4 - 2.2
1100	8	1.80E-14	36.1917	7.20E-03	0.2543	0.0064	1.9	0.954	0.947	216.4 - 2.3
1150	8	1.60E-14	39.9082	7.40E-03	0.8276	0.0181	0.59	0.973	0.866	218.0 - 2.5
1200	8	2.40E-14	91.1348	3.30E-02	0.1509	0.2099	3.2	0.985	0.32	185.4 - 3.7
1300	8	1.30E-14	42.2776	4.80E-02	0.1903	0.0528	2.6	1	0.631	170.5 - 2.3

Sample: DS120 biotiteJ=0.0045910

550	8	9.00E-15	27.8753	1.00E-02	0.1834	0.0251	2.7	0.01	0.734	161.9 - 2.6
600	8	1.10E-14	27.2492	4.00E-03	0.1954	0.0116	2.5	0.021	0.874	187.3 - 2.3
650	8	2.90E-14	28.4678	1.40E-03	0.3515	0.0135	1.4	0.051	0.86	192.1 - 1.9
675	8	4.00E-14	27.4486	1.90E-04	0.276	0.0093	1.8	0.094	0.899	193.7 - 1.9
700	8	7.60E-14	29.0789	0.00E+00	0.0339	0.0137	14	0.171	0.861	196.2 - 1.9
725	8	8.20E-14	25.5809	0.00E+00	0.0063	0.0021	78	0.265	0.976	195.8 - 1.9
750	8	7.40E-14	25.1959	0.00E+00	0.0067	0.001	73	0.352	0.989	195.4 - 1.9
775	8	5.70E-14	24.9893	0.00E+00	0.0067	0.0002	73	0.42	0.997	195.4 - 1.9
800	8	3.20E-14	24.9669	0.00E+00	0.0101	0.0002	48	0.458	0.998	195.3 - 1.9
825	8	2.60E-14	25.0546	0.00E+00	0.015	0.0003	33	0.489	0.996	195.7 - 1.9
850	8	2.60E-14	25.0492	0.00E+00	0.0146	0.0004	34	0.519	0.995	195.5 - 1.9
875	8	3.40E-14	24.9771	0.00E+00	0.0123	0.0005	40	0.559	0.995	194.8 - 1.9
900	8	2.90E-14	25.0834	0.00E+00	0.0159	0.0006	31	0.594	0.993	195.3 - 1.9
925	8	2.60E-14	25.1783	0.00E+00	0.0152	0.0012	32	0.625	0.985	194.6 - 1.9
950	8	3.60E-14	24.9324	0.00E+00	0.0097	0	51	0.668	1	195.4 - 1.9
1000	8	1.40E-13	25.0029	0.00E+00	0.005	0.0005	97	0.829	0.994	194.9 - 1.8
1025	8	7.80E-14	25.224	0.00E+00	0.0047	0.0011	104	0.921	0.987	195.2 - 1.9
1050	8	4.60E-14	25.7406	0.00E+00	0.0082	0.0029	60	0.973	0.966	195.0 - 1.9
1075	8	1.60E-14	26.8494	0.00E+00	0.0202	0.0056	24	0.991	0.938	197.4 - 2.0
1100	8	4.70E-15	25.8592	0.00E+00	0.0816	0.0006	6	0.996	0.993	201.0 - 3.0
1300	8	4.10E-15	30.2051	0.00E+00	0.7287	0.0274	0.67	1	0.732	174.5 - 3.8

Sample: DS120 kspar J=0.0035930

450	15	1.10E-12	477.6978	1.60E-02	0.1993	0.0523	2.5	0.00317	0.968	1765 - 12
450	20	3.00E-14	27.5679	7.70E-03	0.0998	0.0051	4.9	0.00468	0.945	161.4 - 1.7
500	20	1.90E-13	50.4421	1.30E-03	0.0313	0.0062	16	0.00978	0.964	290.4 - 2.7
500	30	3.90E-14	17.3573	0.00E+00	0.0119	0.0084	41	0.01286	0.857	93.9 - 1.0
550	15	8.40E-14	24.4372	8.00E-05	0.016	0.0014	31	0.01762	0.982	149.3 - 1.4
550	20	4.80E-14	15.786	0.00E+00	0.0031	0.0015	156	0.02182	0.972	96.8 - 1.0
600	20	1.50E-13	20.8019	0.00E+00	0.0078	0.0018	63	0.03178	0.974	126.8 - 1.2
600	25	8.30E-14	15.7178	0.00E+00	0.0016	0.0022	304	0.03907	0.958	95.0 - 1.0
650	15	1.50E-13	18.9763	0.00E+00	0.0055	0.0006	89	0.0498	0.99	117.8 - 1.1
650	20	1.10E-13	16.3066	0.00E+00	0.0043	0.0011	114	0.05948	0.979	100.7 - 1.0
700	15	2.10E-13	18.4152	0.00E+00	0.0057	0.0007	86	0.07495	0.989	114.3 - 1.1
700	15	1.70E-13	15.9506	0.00E+00	0.0031	0.0012	159	0.08942	0.977	98.3 - 1.0
750	15	2.30E-13	17.857	0.00E+00	0.0054	0.0008	91	0.10748	0.988	110.8 - 1.1
775	15	2.10E-13	16.2686	0.00E+00	0.0065	0.0005	75	0.12579	0.992	101.6 - 1.0
800	15	1.90E-13	15.9575	0.00E+00	0.0077	0.0004	64	0.14253	0.992	99.8 - 1.0
825	15	2.10E-13	16.1563	0.00E+00	0.0056	0.0006	88	0.16028	0.99	100.8 - 1.0
850	15	2.00E-13	16.1283	0.00E+00	0.0061	0.0006	81	0.17788	0.988	100.4 - 1.0
875	15	2.40E-13	16.7856	0.00E+00	0.0084	0.0009	58	0.19779	0.985	104.1 - 1.0
900	15	2.00E-13	16.9201	0.00E+00	0.0094	0.0011	52	0.21395	0.98	104.4 - 1.0
925	15	2.20E-13	17.4996	0.00E+00	0.0099	0.0018	49	0.23113	0.97	106.8 - 1.0

950	15	2.10E-13	18.4951	1.70E-05	0.0117	0.0024	42	0.24725	0.962	111.8 – 1.1
975	15	2.60E-13	19.8591	0.00E+00	0.0122	0.0032	40	0.26514	0.952	118.6 – 1.2
1000	15	3.20E-13	21.283	5.40E-05	0.0122	0.0034	40	0.28596	0.953	126.9 – 1.2
1025	15	4.20E-13	22.5365	2.40E-05	0.013	0.0036	38	0.31162	0.953	134.1 – 1.3
1050	15	7.90E-13	23.8909	0.00E+00	0.0106	0.0033	46	0.35756	0.96	142.8 – 1.4
1075	15	8.90E-13	23.5602	2.90E-05	0.0117	0.0023	42	0.41007	0.972	142.6 – 1.4
1100	10	5.90E-13	23.117	4.50E-04	0.0163	0.0015	30	0.44531	0.98	141.2 – 1.4
1100	85	2.20E-12	24.2797	0.00E+00	0.0071	0.0024	69	0.57056	0.971	146.7 – 1.4
1100	145	1.30E-12	26.7886	0.00E+00	0.0059	0.0052	83	0.63965	0.943	156.7 – 1.5
1100	550	1.90E-12	31.425	0.00E+00	0.0053	0.0137	92	0.72533	0.872	169.3 – 1.6
1200	8	5.20E-13	31.8368	0.00E+00	0.0097	0.0006	50	0.74801	0.994	194.3 – 1.8
1200	8	2.70E-12	31.6521	0.00E+00	0.0087	0.0006	56	0.86812	0.994	193.2 – 1.8
1200	8	2.90E-12	30.8905	0.00E+00	0.0064	0.0004	76	1	0.996	189.2 – 1.8

Sample: DS123 kspar J=0.0046150

450	15	2.00E-13	112.8674	8.10E-03	0.2407	0.0571	2	0.00705	0.85	661.5 – 5.9
450	20	2.60E-14	36.8501	7.00E-03	0.287	0.0244	1.7	0.00987	0.804	231.2 – 2.6
500	20	1.70E-13	46.6568	3.30E-03	0.1199	0.0112	4.1	0.0243	0.929	329.0 – 3.0
500	30	3.30E-14	14.5877	1.00E-03	0.0625	0.0055	7.8	0.03336	0.888	104.7 – 1.1
550	15	9.90E-14	23.7217	8.90E-04	0.0619	0.0043	7.9	0.05024	0.947	177.9 – 1.7
550	20	3.70E-14	12.3584	1.90E-04	0.0373	0.0024	13	0.06235	0.944	94.6 – 0.9
600	20	1.10E-13	15.7176	0.00E+00	0.0206	0.0017	24	0.091	0.968	122.4 – 1.2
600	25	5.20E-14	12.2905	0.00E+00	0.0133	0.0014	37	0.10817	0.967	96.3 – 0.9
650	15	7.40E-14	14.5068	0.00E+00	0.0162	0.0014	30	0.1289	0.972	113.7 – 1.1
650	20	4.40E-14	12.4852	0.00E+00	0.0149	0.001	33	0.14332	0.977	98.8 – 1.0
700	15	8.20E-14	15.1994	0.00E+00	0.006	0.0007	82	0.16511	0.986	120.6 – 1.2
750	15	8.60E-14	13.6748	0.00E+00	0.0072	0.0005	68	0.19072	0.99	109.3 – 1.1
775	15	5.90E-14	13.46	0.00E+00	0.0075	0.0004	65	0.20839	0.991	107.8 – 1.1
800	15	5.10E-14	13.8888	0.00E+00	0.004	0.0004	122	0.22327	0.992	111.2 – 1.1
825	15	5.10E-14	14.4751	0.00E+00	0.001	0.0003	499	0.23745	0.995	116.1 – 1.1
850	15	5.30E-14	15.0143	0.00E+00	0.0073	0.0005	67	0.25166	0.991	119.8 – 1.2
875	15	5.70E-14	15.6299	0.00E+00	0.0113	0.0006	43	0.2665	0.989	124.3 – 1.2
900	15	6.30E-14	16.2411	0.00E+00	0.0092	0.0006	53	0.28228	0.988	128.9 – 1.3
925	15	7.20E-14	16.9648	0.00E+00	0.0037	0.0003	132	0.2995	0.996	135.4 – 1.3
950	15	8.40E-14	18.0477	0.00E+00	0.0043	0.0004	113	0.31838	0.993	143.3 – 1.4
975	15	9.90E-14	19.0668	0.00E+00	0.0026	0.0007	191	0.3394	0.99	150.6 – 1.5
1000	15	1.10E-13	20.2892	0.00E+00	0.0073	0.0007	67	0.36133	0.99	159.9 – 1.5
1025	15	1.20E-13	21.6436	0.00E+00	0.0093	0.0013	53	0.38449	0.982	168.8 – 1.6
1050	15	1.80E-13	23.2345	0.00E+00	0.0133	0.0022	37	0.41607	0.972	178.8 – 1.7
1075	15	1.60E-13	23.3925	0.00E+00	0.011	0.002	44	0.4445	0.974	180.4 – 1.7
1100	10	1.60E-13	24.3593	0.00E+00	0.0106	0.0015	46	0.47138	0.982	188.9 – 1.8
1100	85	8.10E-13	25.4573	0.00E+00	0.0056	0.0029	88	0.601	0.966	194.0 – 1.8
1100	145	9.00E-13	26.3857	0.00E+00	0.0026	0.0036	186	0.74023	0.96	199.4 – 1.9
1100	550	9.20E-13	27.981	0.00E+00	0.0012	0.0094	414	0.87324	0.901	198.6 – 1.9
1150	8	4.50E-14	26.3608	0.00E+00	0.0055	0.0007	89	0.8802	0.992	205.5 – 2.0
1175	8	2.20E-13	26.8922	0.00E+00	0.0007	0.0006	722	0.91296	0.993	209.7 – 2.0
1200	8	3.00E-13	26.8	0.00E+00	0.0013	0.0007	369	0.95864	0.992	208.8 – 2.0
1225	8	1.10E-13	25.2295	0.00E+00	0.0029	0.0003	169	0.97605	0.997	198.1 – 1.9
1350	8	8.70E-14	24.485	0.00E+00	0.0007	0.0005	695	0.99039	0.994	192.0 – 1.8
1450	57	7.40E-14	31.2843	0.00E+00	0.0017	0.0271	290	1	0.744	184.1 – 1.8

Sample: DS129 muscovite J=0.0046040

600	8	3.70E-15	24.9181	9.70E-04	0.049	0.0192	10	0.002	0.772	153.2 – 4.0
625	8	2.60E-14	29.7112	6.20E-04	0.0453	0.0153	11	0.01	0.848	198.0 – 2.1
650	8	2.00E-14	27.4254	0.00E+00	0.0018	0.0098	265	0.018	0.894	193.0 – 2.0
690	8	3.40E-14	26.9903	0.00E+00	0.0042	0.0085	116	0.031	0.907	192.6 – 1.9
725	8	6.50E-14	25.7042	0.00E+00	0.0005	0.0032	933	0.056	0.964	194.8 – 1.9
740	8	6.20E-14	25.421	0.00E+00	0.0014	0.0022	359	0.081	0.974	194.8 – 1.9

760	8	7.40E-14	25.5076	0.00E+00	0.0075	0.0023	65	0.111	0.973	195.2 – 1.9
765	8	6.50E-14	25.5427	0.00E+00	0.0034	0.0024	143	0.137	0.972	195.3 – 1.9
777	8	9.80E-14	25.8357	0.00E+00	0.0037	0.0034	132	0.175	0.962	195.4 – 1.9
790	8	1.50E-13	25.7985	0.00E+00	0.0027	0.0026	183	0.236	0.97	196.8 – 1.9
800	8	1.80E-13	25.3861	0.00E+00	0.0007	0.0011	658	0.31	0.987	197.0 – 1.9
815	8	1.90E-13	25.182	0.00E+00	0.0004	0.0006	1119	0.387	0.993	196.6 – 1.9
830	8	1.50E-13	25.0678	0.00E+00	0.0021	0.0007	237	0.447	0.992	195.5 – 1.9
840	8	1.00E-13	25.1496	0.00E+00	0.0008	0.0007	595	0.488	0.992	196.1 – 1.9
850	8	8.00E-14	25.0472	0.00E+00	0.0038	0.0011	130	0.521	0.988	194.6 – 1.9
860	8	6.70E-14	25.1668	0.00E+00	0.0013	0.0012	390	0.548	0.986	195.2 – 1.9
880	8	6.70E-14	25.1964	0.00E+00	0.001	0.0013	484	0.575	0.985	195.2 – 1.9
900	8	6.70E-14	25.2365	0.00E+00	0.0048	0.0019	102	0.602	0.978	194.2 – 1.9
925	8	7.80E-14	25.2974	0.00E+00	0.0002	0.0019	2260	0.633	0.977	194.5 – 1.9
950	8	8.80E-14	25.3593	0.00E+00	0.0008	0.0019	637	0.669	0.978	195.0 – 1.9
960	8	8.90E-14	25.4662	0.00E+00	0.0019	0.0019	256	0.705	0.978	195.7 – 1.9
970	8	1.10E-13	25.6489	0.00E+00	0.002	0.0025	247	0.749	0.971	195.9 – 1.9
980	8	1.20E-13	25.3022	0.00E+00	0.002	0.0012	241	0.796	0.986	196.2 – 1.9
1000	8	1.80E-13	25.2192	0.00E+00	0.0023	0.0007	209	0.869	0.992	196.6 – 1.9
1050	8	3.00E-13	25.2626	0.00E+00	0.0009	0.0003	534	0.989	0.996	197.8 – 1.9
1100	8	1.70E-14	25.5415	0.00E+00	0.004	0.0025	124	0.996	0.971	195.1 – 2.2
1300	8	1.30E-14	30.8648	0.00E+00	0.0333	0.0117	15	1	0.888	214.3 – 2.3

Sample: DS135 biotite J=0.0036550

450	8	2.10E-13	60.3894	2.50E-02	0.1412	0.0181	3.5	0.012	0.911	330.6 – 4.0
500	8	3.50E-13	50.8966	1.80E-02	0.094	0.0101	5.2	0.034	0.941	291.1 – 3.0
550	8	5.70E-13	47.4803	1.20E-02	0.0329	0.0036	15	0.074	0.978	282.7 – 2.8
600	8	1.10E-12	45.8021	6.90E-03	0.022	0.0014	22	0.154	0.991	277.0 – 2.6
650	8	1.40E-12	45.2331	5.80E-03	0.0198	0.0006	25	0.253	0.996	275.0 – 2.6
675	8	9.30E-13	45.9029	9.30E-03	0.0259	0.0015	19	0.32	0.99	277.3 – 2.7
700	8	6.30E-13	46.2591	1.20E-02	0.0319	0.0022	15	0.365	0.986	278.2 – 2.8
725	8	4.80E-13	46.3961	1.00E-02	0.0339	0.0014	14	0.399	0.991	280.3 – 2.9
750	8	4.60E-13	45.0835	9.00E-03	0.0218	0	23	0.433	1	275.7 – 2.7
775	8	4.30E-13	45.2249	8.20E-03	0.0256	0.0011	19	0.464	0.993	274.2 – 2.7
800	8	4.10E-13	45.7592	8.80E-03	0.0255	0.0011	19	0.494	0.993	277.1 – 2.7
825	8	4.10E-13	45.6052	8.30E-03	0.0244	0.0011	20	0.523	0.993	276.2 – 2.7
850	8	5.80E-13	45.8386	6.80E-03	0.0224	0.0011	22	0.565	0.993	277.6 – 2.6
875	8	7.60E-13	45.6336	6.50E-03	0.0215	0.0012	23	0.621	0.992	276.3 – 2.6
900	8	8.30E-13	46.2269	6.30E-03	0.0198	0.0008	25	0.68	0.995	280.3 – 2.6
925	8	7.20E-13	45.674	6.50E-03	0.0205	0.0008	24	0.732	0.995	277.2 – 2.6
950	8	5.70E-13	45.673	6.70E-03	0.0219	0.0009	22	0.773	0.994	277.0 – 2.6
975	8	5.10E-13	45.5543	7.10E-03	0.0227	0.0009	22	0.81	0.994	276.3 – 2.7
1000	8	4.30E-13	45.8561	7.30E-03	0.0226	0.001	22	0.841	0.994	277.9 – 2.7
1025	8	5.70E-13	45.7969	6.10E-03	0.0199	0.0009	25	0.883	0.994	277.7 – 2.7
1050	8	9.90E-13	46.4876	6.10E-03	0.0174	0.0018	28	0.953	0.989	280.1 – 2.7
1075	8	4.20E-13	47.2997	6.50E-03	0.0162	0.0012	30	0.982	0.992	285.7 – 3.3
1100	8	1.30E-13	46.0662	1.40E-02	0.036	0.001	14	0.992	0.994	279.1 – 3.6
1150	8	5.20E-14	43.8037	2.40E-02	0.0558	0.0016	8.8	0.996	0.989	265.1 – 6.4
1200	8	2.40E-14	42.4289	5.00E-02	0.0946	0.0058	5.2	0.998	0.96	250.2 – 12.8
1300	8	1.90E-14	40.3882	4.70E-02	0.0964	0.0055	5.1	0.999	0.96	239.0 – 15.4
1400	8	7.00E-15	33.9078	1.60E-01	0.282	0.0187	1.7	1	0.837	177.9 – 36.1

Sample: DS136 biotite J=0.0046050

550	8	2.00E-14	30.4861	1.20E-03	0.021	0.0285	23	0.003	0.723	174.5 – 2.1
600	8	3.50E-14	31.3592	6.40E-04	0.0424	0.0267	12	0.009	0.748	185.1 – 1.8
650	8	8.20E-14	28.9172	0.00E+00	0.0099	0.0162	50	0.023	0.835	190.2 – 1.8
675	8	9.40E-14	26.8801	0.00E+00	0.0106	0.0084	46	0.04	0.908	192.1 – 1.8
700	8	1.40E-13	25.5998	0.00E+00	0.0064	0.004	77	0.067	0.954	192.3 – 1.8
750	8	2.90E-13	25.2097	0.00E+00	0.0042	0.0021	116	0.125	0.975	193.4 – 1.8

800	8	4.30E-13	25.1182	0.00E+00	0.0045	0.0014	108	0.209	0.983	194.3 – 1.8
850	8	3.70E-13	25.0872	0.00E+00	0.0044	0.0012	111	0.283	0.986	194.6 – 1.8
900	8	2.60E-13	25.0631	0.00E+00	0.0046	0.0009	108	0.336	0.989	195.0 – 1.9
925	8	1.40E-13	24.9779	0.00E+00	0.0074	0.0008	66	0.363	0.991	194.7 – 1.9
975	8	1.10E-13	24.6648	0.00E+00	0.0069	0.0012	71	0.386	0.986	191.4 – 1.8
1000	8	1.30E-13	24.5582	0.00E+00	0.003	0.0005	164	0.411	0.994	192.3 – 1.9
1050	8	3.50E-13	25.0843	0.00E+00	0.0019	0.0013	260	0.481	0.985	194.4 – 1.8
1075	8	4.80E-13	25.2022	0.00E+00	0.0026	0.0013	191	0.575	0.985	195.3 – 1.9
1300	8	2.20E-12	25.2681	0.00E+00	0.0021	0.0008	235	1	0.99	196.7 – 1.9

Sample: DS136 muscoviteJ=0.0045990

600	8	8.10E-14	28.6079	2.10E-03	0.2652	0.0118	1.8	0.013	0.878	197.3 – 1.9
625	8	5.60E-14	26.9181	0.00E+00	0.031	0.0058	16	0.022	0.936	197.8 – 1.9
650	8	6.40E-14	26.4985	0.00E+00	0.0288	0.0043	17	0.033	0.952	198.1 – 1.9
690	8	1.10E-13	26.8611	0.00E+00	0.0232	0.0045	21	0.052	0.951	200.3 – 1.9
725	8	2.00E-13	27.4456	0.00E+00	0.0169	0.005	29	0.085	0.946	203.5 – 1.9
740	8	2.00E-13	27.6849	0.00E+00	0.0147	0.0055	33	0.117	0.941	204.2 – 1.9
760	8	2.70E-13	27.8192	0.00E+00	0.0111	0.0048	44	0.161	0.949	206.6 – 2.0
765	8	2.60E-13	27.3933	0.00E+00	0.0099	0.0028	50	0.203	0.97	207.9 – 2.0
777	8	3.40E-13	27.3943	0.00E+00	0.0097	0.0027	50	0.259	0.971	208.1 – 2.0
790	8	4.40E-13	27.2656	0.00E+00	0.0067	0.002	73	0.333	0.978	208.7 – 2.0
800	8	4.70E-13	27.3058	0.00E+00	0.0065	0.0018	76	0.41	0.981	209.6 – 2.0
815	8	5.30E-13	27.2954	0.00E+00	0.0065	0.0018	76	0.497	0.981	209.5 – 2.0
830	8	5.70E-13	27.1782	0.00E+00	0.0067	0.0018	73	0.591	0.98	208.5 – 2.0
840	8	4.30E-13	27.1058	0.00E+00	0.0066	0.0019	75	0.663	0.98	207.9 – 2.0
850	8	3.20E-13	26.8253	0.00E+00	0.0071	0.0019	69	0.717	0.979	205.7 – 2.0
860	8	2.70E-13	26.6323	0.00E+00	0.009	0.0019	54	0.762	0.979	204.4 – 1.9
880	8	3.20E-13	26.6132	0.00E+00	0.0064	0.0018	77	0.816	0.98	204.4 – 1.9
900	8	3.10E-13	26.4927	0.00E+00	0.0076	0.0015	65	0.869	0.983	204.1 – 1.9
925	8	2.50E-13	26.2953	0.00E+00	0.0077	0.0013	64	0.911	0.986	203.2 – 1.9
950	8	1.60E-13	26.0224	0.00E+00	0.0155	0.0009	32	0.938	0.99	202.0 – 1.9
960	8	8.40E-14	26.0629	0.00E+00	0.027	0.0005	18	0.953	0.995	203.2 – 1.9
970	8	5.70E-14	26.2904	0.00E+00	0.0338	0.0004	14	0.963	0.996	205.1 – 2.0
980	8	4.70E-14	26.1818	0.00E+00	0.0283	0	17	0.971	1	205.1 – 2.0
1000	8	4.70E-14	26.7174	0.00E+00	0.0259	0.0017	19	0.979	0.982	205.4 – 2.0
1050	8	5.70E-14	26.7829	0.00E+00	0.0222	0.0018	22	0.988	0.98	205.6 – 2.0
1100	8	7.00E-14	26.5926	0.00E+00	0.0257	0.0005	19	1	0.994	207.0 – 2.0

Sample: DS137 biotiteJ=0.0045940

550	8	7.20E-14	74.0316	1.70E-03	0.1118	0.1632	4.4	0.02	0.349	202.1 – 2.8
600	8	1.00E-13	42.2763	0.00E+00	0.0443	0.0366	11	0.071	0.744	243.5 – 2.3
650	8	1.50E-13	37.8464	0.00E+00	0.0242	0.0194	20	0.154	0.849	248.3 – 2.3
675	8	1.00E-13	37.4496	0.00E+00	0.0311	0.0184	16	0.213	0.855	247.6 – 3.2
700	8	9.30E-14	41.4488	7.50E-05	0.0376	0.0326	13	0.26	0.768	246.1 – 2.4
750	8	1.80E-13	64.0199	0.00E+00	0.0378	0.107	13	0.318	0.506	250.4 – 2.4
800	8	1.50E-13	40.1811	0.00E+00	0.0211	0.0235	23	0.394	0.827	256.4 – 2.4
850	8	2.50E-13	57.8709	0.00E+00	0.0427	0.0842	11	0.483	0.57	254.5 – 2.4
900	8	3.30E-13	46.1234	0.00E+00	0.0205	0.0447	24	0.632	0.714	254.1 – 2.4
925	8	1.40E-13	39.0165	0.00E+00	0.0202	0.0219	24	0.707	0.834	251.3 – 2.4
950	8	1.00E-13	36.9782	0.00E+00	0.0327	0.0157	15	0.767	0.875	249.9 – 2.4
975	8	1.20E-13	35.1365	0.00E+00	0.0193	0.0091	25	0.84	0.924	250.7 – 2.4
1000	8	1.10E-13	34.0438	0.00E+00	0.0147	0.0061	33	0.91	0.947	249.2 – 2.3
1025	8	7.30E-14	33.5512	0.00E+00	0.0309	0.0052	16	0.956	0.954	247.4 – 2.3
1050	8	3.70E-14	32.9744	0.00E+00	0.0568	0.0036	8.6	0.98	0.968	246.9 – 2.4
1075	8	1.60E-14	33.3858	6.30E-04	0.0863	0.0065	5.7	0.99	0.943	243.6 – 2.5
1300	8	1.80E-14	35.8907	0.00E+00	0.1642	0.0155	3	1	0.873	242.5 – 2.6

Sample: DS137 muscoviteJ=0.0044680

500	8	8.50E-16	922.869	0.00E+00	4.3661	1.7299	0.11	0	0.446	1883 – 992
600	8	5.00E-15	44.0319	0.00E+00	0.8725	0.0284	0.56	0.004	0.81	266.6 – 6.0
650	8	1.70E-14	73.8329	0.00E+00	0.7137	0.0265	0.69	0.011	0.894	466.3 – 5.5
700	8	4.40E-14	115.4396	1.60E-03	0.6504	0.0284	0.75	0.022	0.927	705.2 – 6.2
800	8	7.60E-14	92.574	3.00E-04	0.9067	0.0244	0.54	0.048	0.922	582.8 – 5.0
840	8	4.30E-14	35.6867	0.00E+00	1.6673	0.0046	0.29	0.086	0.962	257.4 – 2.5
870	8	3.70E-14	43.0239	0.00E+00	2.7834	0.0039	0.18	0.113	0.973	309.4 – 2.9
900	8	6.80E-14	54.8407	0.00E+00	6.5358	0.0044	0.075	0.153	0.976	386.8 – 3.5
935	8	1.00E-13	57.7493	0.00E+00	8.1236	0.0047	0.06	0.209	0.976	405.1 – 3.6
950	8	1.60E-13	66.0476	0.00E+00	9.2148	0.0069	0.053	0.283	0.969	453.8 – 4.0
955	8	7.20E-14	62.53	0.00E+00	8.8475	0.0061	0.055	0.32	0.971	433.1 – 3.9
960	8	6.30E-14	58.493	0.00E+00	8.5992	0.0056	0.057	0.354	0.972	408.2 – 3.7
965	8	5.10E-14	55.5882	0.00E+00	8.8391	0.0045	0.055	0.383	0.976	391.5 – 3.6
970	8	3.10E-14	51.6011	0.00E+00	8.7714	0.0032	0.056	0.402	0.982	368.1 – 3.5
975	8	2.10E-14	48.676	0.00E+00	8.6394	0.0041	0.057	0.415	0.975	347.0 – 3.4
980	8	1.40E-14	44.1892	0.00E+00	8.6513	0.0012	0.057	0.425	0.992	322.7 – 3.3
985	8	9.50E-15	41.5663	0.00E+00	8.422	0.0006	0.058	0.433	0.996	306.1 – 3.7
990	8	6.20E-15	37.855	0.00E+00	8.3093	0.0019	0.059	0.438	0.985	278.1 – 4.1
995	8	4.40E-15	37.9862	0.00E+00	7.979	0.0062	0.061	0.442	0.952	270.1 – 4.9
1000	8	3.10E-15	34.8372	0.00E+00	7.8608	0	0.062	0.444	1	264.7 – 5.8
1050	8	9.50E-14	39.4897	0.00E+00	10.2377	0.0028	0.048	0.521	0.979	287.5 – 2.7
1090	8	2.60E-13	49.7372	0.00E+00	10.4435	0.0043	0.047	0.683	0.974	353.6 – 3.2
1120	8	5.00E-13	50.9388	0.00E+00	10.0914	0.0044	0.049	0.992	0.974	361.3 – 3.3
1130	8	1.00E-14	46.1445	0.00E+00	9.1079	0.0039	0.054	0.999	0.975	330.4 – 3.7
1140	8	1.50E-15	43.1652	0.00E+00	9.2859	0	0.053	1	1	321.7 – 14.7

Sample: DS137 muscoviteJ=0.0046050

625	8	4.00E-14	31.7594	2.80E-03	0.1306	0.0167	3.8	0.014	0.845	210.1 – 2.2
650	8	3.30E-14	29.636	0.00E+00	0.0422	0.0086	12	0.027	0.914	212.1 – 2.1
690	8	5.70E-14	30.0582	0.00E+00	0.0233	0.0105	21	0.049	0.897	211.2 – 2.0
725	8	1.30E-13	30.7062	0.00E+00	0.0126	0.013	39	0.096	0.875	210.5 – 2.0
740	8	1.60E-13	28.6748	0.00E+00	0.0069	0.0065	71	0.161	0.933	209.6 – 2.0
760	8	2.50E-13	27.5498	0.00E+00	0.0045	0.0024	108	0.265	0.974	210.2 – 2.0
765	8	1.90E-13	27.1445	0.00E+00	0.006	0.001	81	0.345	0.989	210.2 – 2.0
777	8	1.70E-13	27.2124	0.00E+00	0.0094	0.0011	52	0.417	0.988	210.6 – 2.0
790	8	1.50E-13	27.1538	0.00E+00	0.0094	0.001	52	0.481	0.989	210.4 – 2.0
800	8	1.20E-13	27.141	0.00E+00	0.0113	0.001	43	0.533	0.989	210.2 – 2.0
815	8	1.20E-13	27.2113	0.00E+00	0.0095	0.001	52	0.583	0.989	210.8 – 2.0
830	8	1.10E-13	27.2567	0.00E+00	0.0126	0.0013	39	0.628	0.986	210.5 – 2.0
840	8	8.80E-14	27.276	0.00E+00	0.009	0.0012	54	0.665	0.987	210.8 – 2.0
850	8	7.50E-14	27.4525	0.00E+00	0.017	0.0016	29	0.696	0.982	211.2 – 2.0
860	8	6.30E-14	27.4559	0.00E+00	0.0171	0.0018	29	0.722	0.981	210.9 – 2.0
880	8	8.20E-14	27.9547	0.00E+00	0.0274	0.0028	18	0.756	0.97	212.3 – 2.0
900	8	1.00E-13	28.3356	0.00E+00	0.009	0.0043	54	0.796	0.956	212.0 – 2.0
925	8	1.20E-13	28.3928	0.00E+00	0.0111	0.0051	44	0.843	0.947	210.6 – 2.0
950	8	1.10E-13	28.2856	0.00E+00	0.0109	0.0052	45	0.888	0.946	209.6 – 2.0
960	8	7.90E-14	27.2336	0.00E+00	0.0139	0.0027	35	0.921	0.971	207.3 – 2.0
970	8	5.90E-14	26.5928	0.00E+00	0.0151	0.0005	32	0.947	0.994	207.2 – 2.0
980	8	4.40E-14	26.417	0.00E+00	0.0091	0	54	0.966	1	207.1 – 2.0
1000	8	3.50E-14	26.5545	0.00E+00	0.0404	0.0007	12	0.981	0.992	206.5 – 2.1
1050	8	2.50E-14	27.2016	0.00E+00	0.0587	0	8.4	0.991	1	212.8 – 2.2
1100	8	2.30E-14	30.0541	1.90E-04	0.139	0.0032	3.5	1	0.969	227.0 – 2.4

Sample: DS138 muscoviteJ=0.0045970

600	8	5.00E-14	23.262	5.90E-03	0.1072	0.0126	4.6	0.019	0.84	155.2 – 1.7
625	8	2.80E-14	20.4906	3.20E-04	0.0368	0.0031	13	0.032	0.955	155.4 – 1.6
650	8	3.10E-14	21.0788	1.90E-05	0.0224	0.0029	22	0.045	0.959	160.4 – 1.6
675	8	3.60E-14	21.5731	0.00E+00	0.0101	0.0027	49	0.06	0.963	164.5 – 1.6

700	8	4.70E-14	22.1771	0.00E+00	0.0108	0.0023	45	0.079	0.969	170.0 – 1.7
725	8	6.20E-14	22.8363	0.00E+00	0.0112	0.0021	44	0.103	0.972	175.3 – 1.7
740	8	6.20E-14	23.3215	0.00E+00	0.0149	0.002	33	0.128	0.975	179.3 – 1.7
760	8	8.20E-14	23.8907	0.00E+00	0.0105	0.0019	47	0.159	0.977	183.9 – 1.8
765	8	6.40E-14	24.0229	0.00E+00	0.0219	0.0018	22	0.183	0.977	184.9 – 1.8
775	8	6.90E-14	24.3668	0.00E+00	0.0163	0.0023	30	0.208	0.972	186.4 – 1.8
780	8	6.30E-14	24.4464	0.00E+00	0.0137	0.0015	36	0.231	0.982	188.9 – 1.8
790	8	7.90E-14	24.7205	0.00E+00	0.0102	0.0014	48	0.26	0.983	191.0 – 1.8
800	8	8.20E-14	24.6667	0.00E+00	0.0076	0.0011	64	0.29	0.986	191.3 – 1.8
815	8	8.10E-14	24.5031	0.00E+00	0.0085	0.0005	57	0.32	0.994	191.5 – 1.8
830	8	8.00E-14	24.5965	0.00E+00	0.01	0.0012	49	0.349	0.986	190.6 – 1.8
840	8	7.60E-14	24.6214	0.00E+00	0.0117	0.0009	42	0.377	0.99	191.5 – 1.8
850	8	7.50E-14	24.5838	0.00E+00	0.0066	0.0007	74	0.404	0.992	191.6 – 1.8
860	8	7.70E-14	24.705	0.00E+00	0.0061	0.0007	80	0.433	0.992	192.6 – 1.8
880	8	1.00E-13	24.7535	0.00E+00	0.0043	0.0006	115	0.469	0.993	193.1 – 1.8
900	8	1.30E-13	25.0883	0.00E+00	0.0001	0.0015	5403	0.514	0.983	193.7 – 1.8
925	8	1.50E-13	24.9543	0.00E+00	0.0038	0.0009	129	0.57	0.989	193.9 – 1.8
950	8	2.50E-13	25.1381	0.00E+00	0.0031	0.0008	157	0.66	0.99	195.5 – 1.9
975	8	5.00E-13	25.2828	0.00E+00	0.0016	0.0005	300	0.838	0.995	197.4 – 1.9
1000	8	2.60E-13	25.1972	0.00E+00	0.0028	0.0003	175	0.931	0.997	197.1 – 1.9
1050	8	5.80E-14	24.6286	0.00E+00	0.0074	0.0015	67	0.953	0.982	190.1 – 1.8
1100	8	3.90E-14	24.3654	0.00E+00	0.0124	0.0013	39	0.967	0.985	188.8 – 1.8
1300	8	8.00E-14	21.9235	0.00E+00	0.004	0.0017	123	1	0.977	169.4 – 1.6

Sample: D244B kspar J=0.0045610

450	15	1.70E-13	16.7234	0.00E+00	0.0296	0.0065	17	0.01523	0.885	117.9 – 1.2
450	20	1.40E-13	16.1757	0.00E+00	0.0107	0.0035	46	0.02813	0.936	120.5 – 1.2
500	20	3.10E-13	17.097	0.00E+00	0.0069	0.0016	71	0.0564	0.972	131.8 – 1.3
550	15	3.10E-13	18.6897	0.00E+00	0.0059	0.0013	84	0.08167	0.979	144.6 – 1.4
600	15	3.40E-13	19.4332	0.00E+00	0.0057	0.0011	86	0.10868	0.983	150.6 – 1.4
650	15	4.30E-13	20.039	0.00E+00	0.0045	0.0027	109	0.14187	0.96	151.8 – 1.5
700	15	5.10E-13	19.1524	0.00E+00	0.0028	0.0005	178	0.18301	0.993	150.1 – 1.4
750	15	5.20E-13	19.1626	0.00E+00	0.0034	0.0004	142	0.2243	0.994	150.3 – 1.4
775	15	3.20E-13	19.3723	0.00E+00	0.0029	0.0006	169	0.24996	0.991	151.5 – 1.5
800	15	2.50E-13	19.6461	0.00E+00	0.006	0.0008	82	0.26956	0.987	152.9 – 1.5
825	15	2.20E-13	19.8242	0.00E+00	0.003	0.0009	162	0.28642	0.987	154.2 – 1.6
850	15	2.10E-13	20.0827	0.00E+00	0.005	0.0012	99	0.30227	0.983	155.5 – 1.5
875	15	2.10E-13	20.36	0.00E+00	0.0029	0.0014	168	0.31775	0.979	157.0 – 1.5
900	15	2.10E-13	20.6515	0.00E+00	0.0036	0.0018	137	0.33328	0.974	158.4 – 1.5
925	15	2.20E-13	20.8571	0.00E+00	0.0027	0.0019	178	0.3492	0.972	159.6 – 1.5
950	15	2.30E-13	21.2027	0.00E+00	0.0022	0.0023	220	0.36556	0.968	161.4 – 1.5
975	15	2.40E-13	21.5391	0.00E+00	0.0041	0.0028	119	0.38261	0.962	162.9 – 1.6
1000	15	2.50E-13	21.9635	0.00E+00	0.0034	0.0033	146	0.40004	0.956	165.0 – 1.6
1025	15	2.40E-13	22.5592	0.00E+00	0.0017	0.0043	293	0.41666	0.943	167.1 – 1.6
1050	15	2.00E-13	23.0093	0.00E+00	0.004	0.0047	123	0.43021	0.94	169.7 – 1.6
1075	15	1.90E-13	23.4265	0.00E+00	0.0043	0.0051	114	0.44279	0.936	172.0 – 1.6
1100	10	1.40E-13	23.6057	0.00E+00	0.0005	0.0054	1031	0.45202	0.932	172.5 – 1.7
1100	85	5.60E-13	24.9083	0.00E+00	0.0021	0.0088	230	0.48643	0.896	174.9 – 1.7
1100	145	4.80E-13	26.4189	0.00E+00	0.0009	0.014	552	0.51453	0.843	174.6 – 1.7
1100	550	8.50E-13	28.7364	0.00E+00	0.0016	0.0224	313	0.55991	0.769	173.3 – 1.7
1150	8	4.50E-14	26.0429	0.00E+00	0.0006	0.0143	877	0.56256	0.838	171.1 – 1.7
1175	8	1.70E-13	26.1039	0.00E+00	0.0029	0.0156	170	0.57235	0.824	168.8 – 1.6
1200	8	7.90E-13	26.4507	0.00E+00	0.0017	0.0167	282	0.61847	0.813	168.8 – 1.6
1225	8	3.10E-12	26.992	0.00E+00	0.0016	0.0183	308	0.79214	0.8	169.4 – 1.6
1350	8	2.70E-12	27.6257	0.00E+00	0.0027	0.0191	184	0.94325	0.796	172.4 – 1.6
1450	57	1.00E-12	27.9881	0.00E+00	0.0022	0.0194	223	1	0.795	174.4 – 1.7

Sample: D247A muscovite J=0.0040421

725	8	6.10E-13	34.8082	0.00E+00	0.0462	0.0015	11	0.0375	0.987	234.7 - 2.2
740	8	9.70E-13	34.427	0.00E+00	0.0167	0.0009	29	0.09749	0.993	233.4 - 2.2
760	8	1.70E-12	34.3602	0.00E+00	0.0374	0.0004	13	0.20392	0.997	233.9 - 2.2
775	8	1.80E-12	34.6106	0.00E+00	0.0312	0.0002	16	0.31271	0.998	235.8 - 2.2
800	8	1.90E-12	34.2123	0.00E+00	0.0324	0.0002	15	0.43143	0.998	233.3 - 2.2
815	8	1.60E-12	34.6462	0.00E+00	0.0364	0.0003	13	0.52995	0.998	236.0 - 2.2
830	8	1.30E-12	34.7602	0.00E+00	0.0473	0.0002	10	0.61023	0.998	236.7 - 2.2
850	8	1.20E-12	35.1091	0.00E+00	0.0563	0.0002	8.7	0.683	0.998	239.0 - 2.2
875	8	9.80E-13	34.5716	0.00E+00	0.047	0.0002	10	0.74363	0.998	235.6 - 2.2
900	8	9.70E-13	34.1122	0.00E+00	0.0369	0.0004	13	0.80429	0.996	232.2 - 2.2
925	8	1.00E-12	34.2564	0.00E+00	0.0529	0.0003	9.3	0.8665	0.998	233.4 - 2.2
950	8	8.80E-13	34.2747	0.00E+00	0.0491	0.0003	10	0.92089	0.998	233.6 - 2.2
1000	8	3.70E-13	33.7374	0.00E+00	0.0622	0.0003	7.9	0.9443	0.998	230.1 - 2.2
1050	8	8.70E-14	34.2904	1.60E-03	0.0865	0.0023	5.7	0.94974	0.98	229.8 - 2.2
1100	8	6.60E-14	33.391	8.50E-04	0.1323	0	3.7	0.95395	1	229.2 - 2.2
1300	8	7.40E-13	34.2987	0.00E+00	0.0393	0.0004	12	1	0.996	233.4 - 2.2

Sample: D247 kspar J=0.0045650

450	15	1.60E-13	188.535	1.90E-03	0.3308	0.35	1.5	0.00459	0.451	592.2 - 7.3
450	20	1.60E-14	37.4413	1.60E-03	0.5139	0.0618	0.95	0.0069	0.513	151.5 - 2.5
500	20	1.60E-13	76.3176	1.70E-03	0.8111	0.1041	0.6	0.01825	0.597	340.8 - 3.2
500	30	2.30E-14	17.4583	1.30E-03	0.9625	0.0184	0.51	0.02556	0.688	96.3 - 1.1
550	15	1.00E-13	45.7823	0.00E+00	0.8988	0.0579	0.55	0.03764	0.626	221.9 - 2.2
550	20	2.60E-14	15.8713	1.40E-04	0.8596	0.0127	0.57	0.04646	0.763	97.0 - 1.3
600	20	9.60E-14	24.2927	0.00E+00	0.8221	0.0243	0.6	0.06811	0.705	135.7 - 1.4
600	25	3.70E-14	14.0503	0.00E+00	0.6383	0.0079	0.77	0.08264	0.833	93.9 - 1.1
650	15	6.30E-14	17.5206	0.00E+00	0.5663	0.013	0.87	0.10226	0.78	109.2 - 1.1
650	20	3.70E-14	12.829	0.00E+00	0.4273	0.005	1.1	0.1178	0.885	91.1 - 1.0
700	15	6.80E-14	15.3496	0.00E+00	0.3713	0.0086	1.3	0.14177	0.834	102.4 - 1.0
750	15	9.90E-14	15.6437	0.00E+00	0.3239	0.0087	1.5	0.1764	0.836	104.6 - 1.0
775	15	6.90E-14	13.6043	0.00E+00	0.226	0.0048	2.2	0.20392	0.896	97.7 - 1.0
800	15	7.30E-14	14.6182	0.00E+00	0.187	0.0063	2.6	0.2313	0.873	102.1 - 1.0
825	15	9.70E-14	15.6725	0.00E+00	0.1437	0.0078	3.4	0.2649	0.852	106.8 - 1.1
850	15	1.00E-13	15.3512	0.00E+00	0.0988	0.0067	5	0.30199	0.871	106.9 - 1.0
875	15	8.80E-14	14.1057	0.00E+00	0.0781	0.004	6.3	0.33606	0.917	103.5 - 1.0
900	15	7.90E-14	13.909	0.00E+00	0.0721	0.0039	6.8	0.36697	0.917	102.1 - 1.0
925	15	7.50E-14	14.3297	0.00E+00	0.0821	0.0059	6	0.39529	0.879	100.8 - 1.0
950	15	8.40E-14	15.2689	0.00E+00	0.0837	0.0066	5.9	0.42516	0.873	106.6 - 1.0
975	15	1.00E-13	16.0227	0.00E+00	0.0896	0.0075	5.5	0.45971	0.862	110.4 - 1.1
1000	15	1.10E-13	16.195	0.00E+00	0.0726	0.0067	6.7	0.49645	0.878	113.4 - 1.1
1025	15	1.10E-13	16.7831	0.00E+00	0.0735	0.007	6.7	0.53234	0.877	117.3 - 1.1
1050	15	9.70E-14	18.422	0.00E+00	0.0858	0.0088	5.7	0.56104	0.859	125.8 - 1.2
1075	15	1.40E-13	22.2556	0.00E+00	0.1056	0.0124	4.6	0.59503	0.835	146.9 - 1.4
1100	10	2.00E-13	28.6717	0.00E+00	0.1384	0.0179	3.5	0.63356	0.816	183.1 - 1.7
1100	85	1.10E-12	25.6263	0.00E+00	0.0935	0.0135	5.2	0.85861	0.845	170.0 - 1.6
1100	145	5.70E-13	25.0866	0.00E+00	0.147	0.0146	3.3	0.98194	0.827	163.3 - 1.5
1100	550	1.90E-13	74.2784	1.40E-03	0.9816	0.1355	0.5	0.99578	0.461	262.1 - 2.6
1150	8	6.00E-15	65.4423	2.10E-04	2.682	0.0536	0.18	0.99628	0.758	368.3 - 14.1
1175	8	6.50E-15	59.7476	0.00E+00	3.3383	0.0261	0.15	0.99687	0.871	384.5 - 9.6
1200	8	6.60E-15	54.2433	0.00E+00	1.8678	0.0144	0.26	0.99754	0.921	370.7 - 11.9
1225	8	6.40E-15	43.7423	0.00E+00	1.1097	0.0231	0.44	0.99834	0.844	281.0 - 11.5
1350	8	1.40E-14	52.4819	0.00E+00	2.0247	0.0366	0.24	0.99974	0.794	314.1 - 6.3
1450	57	2.10E-14	441.5985	0.00E+00	0.6156	1.3368	0.8	1	0.105	347.7 - 54

Sample: D249C ksparJ=0.0045920

450	15	4.70E-13	101.2601	1.20E-03	0.0585	0.0386	8.4	0.00849	0.887	623.1 - 5.5
450	20	4.70E-14	20.2907	0.00E+00	0.0335	0.0083	15	0.01271	0.879	142.0 - 1.4
500	20	2.60E-13	37.1119	0.00E+00	0.0165	0.0142	30	0.02531	0.887	253.8 - 2.4

500	30	8.70E-14	17.6888	0.00E+00	0.008	0.0049	61	0.03424	0.918	129.7 – 1.3
550	15	1.80E-13	21.5747	0.00E+00	0.0059	0.0051	83	0.04982	0.931	159.1 – 1.5
550	20	1.10E-13	16.3319	0.00E+00	0.0032	0.0016	152	0.06224	0.972	126.9 – 1.2
600	20	2.70E-13	17.2971	0.00E+00	0.0024	0.0014	207	0.09042	0.977	134.8 – 1.3
600	25	1.50E-13	16.0504	0.00E+00	0.0046	0.001	106	0.10697	0.982	126.1 – 1.2
650	15	1.90E-13	16.6576	0.00E+00	0.0004	0.0011	1197	0.12734	0.981	130.5 – 1.3
650	20	1.10E-13	15.9142	0.00E+00	0.0029	0.0009	168	0.14049	0.984	125.3 – 1.2
700	15	1.60E-13	16.2102	0.00E+00	0.0023	0.0007	216	0.15818	0.987	127.9 – 1.2
750	15	2.00E-13	16.93	0.00E+00	0.0024	0.0009	207	0.1793	0.984	132.9 – 1.3
775	15	1.30E-13	15.8383	0.00E+00	0.0037	0.0004	133	0.19424	0.992	125.7 – 1.2
800	15	1.20E-13	15.8476	0.00E+00	0.0014	0.0004	347	0.20844	0.992	125.8 – 1.2
825	15	1.30E-13	15.857	0.00E+00	0.0002	0.0004	2238	0.22372	0.992	125.9 – 1.2
850	15	1.50E-13	15.8599	0.00E+00	0.0024	0.0004	201	0.24084	0.993	126.0 – 1.2
875	15	1.60E-13	15.9274	0.00E+00	0.0022	0.0004	227	0.25945	0.992	126.3 – 1.2
900	15	1.80E-13	16.4557	0.00E+00	0.0024	0.0024	206	0.27912	0.957	126.0 – 1.2
925	15	1.80E-13	15.9692	0.00E+00	0.0013	0.0003	371	0.29944	0.994	126.9 – 1.2
950	15	1.80E-13	15.9983	0.00E+00	0.0009	0.0003	545	0.31994	0.994	127.1 – 1.2
975	15	1.80E-13	16.0838	0.00E+00	0.0016	0.0004	298	0.34031	0.992	127.6 – 1.2
1000	15	1.70E-13	16.1898	0.00E+00	0.0001	0.0005	5715	0.35987	0.99	128.2 – 1.2
1025	15	1.70E-13	16.3924	0.00E+00	0.0014	0.0007	339	0.37846	0.988	129.4 – 1.3
1050	15	1.70E-13	16.6186	0.00E+00	0.0012	0.0009	419	0.39712	0.984	130.7 – 1.3
1075	15	1.60E-13	16.9926	0.00E+00	0.0007	0.0011	703	0.41398	0.981	133.1 – 1.3
1100	10	1.00E-13	17.3735	0.00E+00	0.0014	0.0012	343	0.42458	0.979	135.7 – 1.3
1100	85	3.70E-13	18.8583	0.00E+00	0.0007	0.0037	736	0.45995	0.942	141.5 – 1.4
1100	145	2.80E-13	21.4926	0.00E+00	0.0001	0.0085	3423	0.48351	0.883	150.8 – 1.5
1100	550	4.60E-13	25.5184	0.00E+00	0.0014	0.0175	350	0.51628	0.797	161.2 – 1.5
1150	8	1.90E-14	23.814	0.00E+00	0.0023	0.0081	211	0.51774	0.899	169.2 – 1.7
1175	8	6.40E-14	22.3599	0.00E+00	0.001	0.0035	498	0.52293	0.953	168.5 – 1.6
1200	8	2.70E-13	22.0017	0.00E+00	0.0006	0.0025	809	0.5454	0.966	168.0 – 1.6
1225	8	6.80E-13	22.434	0.00E+00	0.0012	0.0028	411	0.60103	0.963	170.7 – 1.6
1350	8	3.70E-12	22.6266	0.00E+00	0.0015	0.0034	323	0.90159	0.955	170.8 – 1.6
1450	57	1.20E-12	22.6344	0.00E+00	0.0019	0.0042	264	1	0.945	169.1 – 1.6

Part 3. Description of K-feldspar Modeling

We ran modified 1997 versions of *Lovera s* [1992] modeling routines on an IBM 43P computer.

A minimum of 4 age steps from a spectrum were fit with a line to define an activation energy, E , and frequency factor, D_0 [Lovera *et al.*, 1997]; more steps were added if the fit improved. The number of domains was limited to a minimum of three and a maximum of eight. The diffusion domain theory predicts constant or monotonically increasing age spectra, and spectra that do not fit this ideal must be adjusted. Spectrum step ages were assigned 2_ analytical uncertainties except for step ages younger than previous steps, for which the uncertainties were expanded until adjacent steps were concordant. Multiple, isothermal, low-T steps designed to identify Cl-correlated excess ^{40}Ar [Harrison *et al.*, 1994] were all assigned the age of the youngest step in the group. Steps with low radiogenic yields (<95%) and anomalously old ages

were adjusted to provide a smoothly increasing trend. Steps above melting ($>1100^{\circ}\text{C}$) that yielded spurious ages were either ignored or set equal to the final 1100°C step, but in any case are not modeled by the program. Fifty monotonic and non-monotonic cooling histories were generated using age spectrum modeling routines; unless otherwise noted, we only show cooling histories that provide a good fit to the data. Cooling histories were calculated from initial ages 50—100 m.y. older than the oldest step.

Part 4. Laser step heating of individual K-feldspars from molassic red beds.

Sample: D32		J=0.0044880					
xl.stp	^{40}Ar	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	Age (Ma)
1.1	1.6e-13	17.2220	0.0309	0.0073	16	0.875	118.1 – 1.2
1.2	1.7e-13	18.8695	0.0178	0.0124	28	0.806	119.1 – 1.2
preferred age: 119 – 1 Ma			total gas age: 118.6 – 1.2 Ma				
3.1	1.6e-13	22.9564	0.0387	0.0283	13	0.636	114.4 – 1.1
3.2	7.6e-14	16.0093	0.0278	0.0033	18	0.939	117.8 – 1.1
3.3	3.0e-13	16.6761	0.0259	0.0047	19	0.917	119.8 – 1.2
preferred age: 120 – 1 Ma			total gas age: 118.2 – 1.2 Ma				
4.1	9.9e-14	16.5336	0.0045	0.0027	108	0.952	123.1 – 1.2
4.2	2.4e-14	16.7299	0.0029	0.0023	172	0.959	125.4 – 1.2
4.3	4.5e-14	16.6038	0.0047	0.0032	104	0.943	122.5 – 1.2
preferred age: 123 – 1 Ma			total gas age: 123.3 – 1.2 Ma				
6.1	1.5e-14	22.4244	0.4552	0.0267	1.1	0.648	113.9 – 1.4
6.2	9.0e-15	52.9789	0.9818	0.1297	0.50	0.277	115.0 – 3.0
6.3	1.3e-14	95.3003	1.1198	0.2760	0.44	0.144	107.9 – 4.7
6.4	2.2e-14	87.3815	0.5654	0.2448	0.87	0.172	118.0 – 3.1
preferred age: 114 – 1.4 Ma			total gas age: 114.7 – 1.5 Ma				
7.1	1.8e-13	16.9952	0.0084	0.0050	58	0.913	121.4 – 1.2
7.2	2.7e-13	17.0111	0.0090	0.0051	54	0.911	121.3 – 1.2
7.3	1.6e-13	16.9404	0.0110	0.0048	45	0.917	121.5 – 1.2
preferred age: 121 – 1 Ma			total gas age: 121.4 – 1.2 Ma				
10.1	1.7e-14	24.0308	0.6448	0.0282	0.76	0.654	122.9 – 1.4
preferred age: 119 – 1 Ma			total gas age: 122.9 – 1.4 Ma				
2.1	1.9e-13	33.5145	0.0509	0.0306	9.6	0.730	188.1 – 1.8
2.2	5.9e-14	26.2996	0.1271	0.0113	3.9	0.874	177.0 – 1.7
preferred age: Jura—Triassic			total gas age: 184.9 – 1.8 Ma				
5.1	6.7e-14	27.3496	0.0016	0.0007	311	0.992	207.3 – 2.0
5.2	1.3e-13	31.8808	0.0011	0.0014	457	0.987	238.3 – 2.2
5.3	3.8e-14	34.2875	0.0005	0.0020	967	0.983	254.2 – 2.4
5.4	6.1e-15	35.4827	0.0014	0.0012	354	0.990	264.1 – 3.0
5.5	4.7e-14	35.9931	0.0019	0.0022	263	0.982	265.6 – 2.5
preferred age: Jura—Triassic			total gas age: 236.3 – 3.2 Ma				

Sample: D220A		J=0.0045180					
xl.stp	⁴⁰ Ar	⁴⁰ Ar/ ³⁹ Ar	³⁷ Ar/ ³⁹ Ar	³⁶ Ar/ ³⁹ Ar	K/Ca	⁴⁰ Ar*	Age (Ma)
A1.1	3.7e-13	26.7602	0.0198	0.0010	25	0.989	203.7 – 1.9
A1.2	5.2e-13	27.9254	0.0063	0.0016	78	0.983	210.9 – 2.0
A1.3	1.1e-13	27.9500	0.0115	0.0023	43	0.975	209.5 – 2.0
A1.4	1.6e-13	28.5437	0.0053	0.0018	93	0.981	215.0 – 2.0
A5.1	1.3e-13	26.9118	0.0367	0.0016	13	0.983	203.6 – 1.9
A5.2	3.8e-14	26.4316	0.0642	0.0008	7.6	0.991	201.7 – 1.9
A5.3	3.8e-14	26.9951	0.0178	0.0011	28	0.988	205.3 – 2.0
A5.4	1.3e-13	28.0043	0.0200	0.0012	24	0.987	212.3 – 2.0
isochron age: 189 – 2 Ma		total gas age: 208.5 – 2.0					
B6.1	1.7e-13	25.3247	0.0344	0.0006	14	0.993	194.1 – 1.8
B6.2	4.9e-14	26.3788	0.1121	0.0009	4.4	0.990	201.2 – 1.9
B6.3	2.2e-13	30.9824	0.0233	0.0016	21	0.984	232.9 – 2.2
B6.4	1.8e-14	33.5052	0.0382	0.0031	13	0.973	247.8 – 2.4
B6.5	3.3e-14	35.9961	0.0275	0.0082	18	0.933	254.8 – 2.4
B7.1	3.7e-14	26.3693	0.0134	0.0003	37	0.996	202.3 – 1.9
B7.2	1.3e-14	28.6481	0.0109	0.0017	45	0.982	215.9 – 2.1
B7.3	1.9e-14	30.6188	0.0106	0.0013	46	0.987	230.9 – 2.2
B7.4	2.8e-14	29.7525	0.0092	0.0013	53	0.987	224.7 – 2.1
B7.5	6.5e-15	32.4322	0.0577	0.0041	8.5	0.962	238.0 – 2.6
isochron age: 178 – 10 Ma		total gas age: 211.3 – 2.0					
C2.1	2.8e-13	30.2703	0.0703	0.0014	7.0	0.987	228.3 – 2.1
C2.2	1.8e-14	33.2962	0.0554	0.0024	8.8	0.979	247.9 – 2.4
C2.3	2.3e-14	35.9318	0.0776	0.0020	6.3	0.984	267.3 – 2.5
C8.1	5.5e-14	25.2653	0.0691	0.0002	7.1	0.998	194.6 – 1.8
C8.2	4.9e-14	26.3605	0.3192	0.0006	1.5	0.993	201.7 – 1.9
C8.3	4.6e-14	27.4179	0.2462	0.0007	2.0	0.992	209.2 – 2.0
C8.4	9.8e-14	32.9928	0.1724	0.0012	2.8	0.989	248.1 – 2.3
C8.5	8.4e-14	37.4746	0.2038	0.0028	2.4	0.978	276.3 – 2.6
isochron age: 180 – 9 Ma		total gas age: 2226.0 – 2.1					
D3.1	1.9e-13	29.5450	0.1044	0.0014	4.7	0.986	223.1 – 2.1
D3.2	1.3e-13	33.2215	0.0250	0.0015	20	0.987	249.1 – 2.3
D3.3	1.5e-13	31.2001	0.0136	0.0009	36	0.991	236.0 – 2.2
D3.4	1.9e-13	32.1190	0.0144	0.0016	34	0.985	241.1 – 2.3
D10.1	2.1e-14	31.4924	0.0231	0.0029	21	0.972	233.8 – 2.2
D10.2	3.3e-13	26.5323	0.0105	0.0003	47	0.996	203.6 – 1.9
D10.3	1.8e-13	25.9865	0.0059	0.0002	84	0.997	199.7 – 1.9
D10.4	8.3e-14	26.4788	0.0315	0.0004	16	0.995	203.0 – 1.9
D10.5	1.4e-13	28.2451	0.0338	0.0007	14	0.993	215.2 – 2.0
D10.6	4.9e-13	35.6922	0.0073	0.0012	68	0.990	267.2 – 2.5
isochron age: 179 – 4 Ma		total gas age: 229.4 – 2.2					
E9.1	1.7e-13	25.9914	0.0249	0.0008	20	0.991	198.6 – 1.9
E9.2	1.6e-13	25.8855	0.0599	0.0009	8.2	0.989	197.5 – 1.9
E9.3	7.5e-14	26.9186	0.0388	0.0027	13	0.971	201.3 – 1.9
E9.4	7.6e-14	28.4086	0.0289	0.0022	17	0.977	213.2 – 2.0
E9.5	5.1e-14	30.6525	0.0824	0.0018	5.9	0.983	230.2 – 2.2
E9.6	2.0e-13	30.5314	0.0630	0.0009	7.8	0.991	231.2 – 2.2
isochron age: 181 – 8 Ma		total gas age: 210.3 – 2.0					
F4.1	3.0e-14	18.9335	0.1597	0.0119	3.1	0.814	121.4 – 1.2
F4.2	9.0e-15	18.3624	0.1794	0.0103	2.7	0.835	120.8 – 1.3
F4.3	1.1e-14	18.6486	0.2217	0.0103	2.2	0.836	122.8 – 1.3
F4.4	3.2e-14	19.9317	0.4050	0.0151	1.2	0.775	121.8 – 1.2

F11.1	1.4e-14	15.9840	0.0082	0.0007	60	0.987	124.2 – 1.2
F11.2	2.9e-13	16.1342	0.0121	0.0019	40	0.964	122.5 – 1.2
isochron age: 123 – 1 Ma			total gas age: 122.5 – 1.2				

xl.stp, crystal identifier.heating-step number. ^{40}Ar : moles of ^{40}Ar corrected for blank and reactor-produced ^{40}Ar ; $^{40}\text{Ar}/^{39}\text{Ar}$: ratio of radiogenic ^{40}Ar to ^{39}Ar produced by irradiation of ^{39}K ; $^{37}\text{Ar}/^{39}\text{Ar}$: ratio of corrected ^{37}Ar and ^{39}Ar ; $^{36}\text{Ar}/^{39}\text{Ar}$: ratio of corrected ^{36}Ar and ^{39}Ar ; K/Ca: inferred K/Ca ratio; $^{40}\text{Ar}^*$: radiogenic fraction of ^{40}Ar . Uncertainties for ages include uncertainty in J factor.