

**Appendix B.** Experimental molar heat capacities of natural axinites in the temperature range 2 - 300 K (analyses are given in Table 2). Sample weights for the PPMS measurements were the following: ferroaxinite single crystal: 6.298 mg (columns 1-4), ferroaxinite powder: 21.607 mg (columns 5-6), magnesioaxinite single crystal: 35.6382 mg (columns 7-8), manganaxinite powder: 22.1386 mg (columns 9-10), tinzenite powder: 20.6872 mg (columns 11-12). Numbers in parentheses are one standard deviation and refer to the last digit.

$T/K$	$C_p$ [J/(mol.K)]	$T/K$	$C_p$ [J/(mol.K)]	$T/K$	$C_p$ [J/(mol.K)]	$T/K$	$C_p$ [J/(mol.K)]	$T/K$	$C_p$ [J/(mol.K)]	$T/K$	$C_p$ [J/(mol.K)]
ferroaxinite $M = 1136.66 \text{ g} \cdot \text{mol}^{-1}$		ferroaxinite $M = 1136.66 \text{ g} \cdot \text{mol}^{-1}$		ferroaxinite $M = 1136.66 \text{ g} \cdot \text{mol}^{-1}$		magnesioaxinite $M = 1081.17 \text{ g} \cdot \text{mol}^{-1}$		manganaxinite $M = 1148.75 \text{ g} \cdot \text{mol}^{-1}$		tinzenite $M = 1156.06 \text{ g} \cdot \text{mol}^{-1}$	
5.112	0.824(4)	2.028	2.559(11)	5.116	0.805(7)	5.122	0.0902(6)	5.128	3.612(57)	5.122	7.693(63)
5.116	0.828(3)	2.034	2.566(9)	5.124	0.805(7)	5.123	0.0907(2)	5.135	3.615(57)	5.128	7.738(67)
5.120	0.824(4)	2.035	2.535(10)	5.128	0.835(8)	5.130	0.0903(2)	5.137	3.595(54)	5.129	7.725(53)
5.475	0.784(5)	2.184	2.320(9)	5.478	0.764(7)	5.496	0.1016(4)	5.487	3.649(55)	5.487	7.991(46)
5.478	0.782(3)	2.191	2.331(9)	5.486	0.793(6)	5.497	0.0987(4)	5.503	3.697(50)	5.497	7.987(55)
5.481	0.789(3)	2.192	2.316(9)	5.493	0.778(5)	5.498	0.0985(6)	5.506	3.693(50)	5.498	7.985(46)
5.873	0.753(3)	2.351	2.105(9)	5.873	0.764(6)	5.893	0.1114(3)	5.902	3.776(49)	5.883	8.201(40)
5.876	0.751(3)	2.358	2.093(8)	5.882	0.788(6)	5.893	0.1097(3)	5.905	3.748(46)	5.891	8.289(48)
5.878	0.754(3)	2.360	2.067(8)	5.888	0.760(4)	5.897	0.1098(3)	5.908	3.734(46)	5.893	8.338(54)
6.289	0.736(3)	2.531	1.903(7)	6.291	0.755(6)	6.311	0.1255(5)	6.321	3.798(46)	6.315	8.485(61)
6.293	0.737(3)	2.538	1.901(7)	6.301	0.758(4)	6.312	0.1232(3)	6.333	3.823(41)	6.324	8.590(47)
6.296	0.736(3)	2.540	1.888(8)	6.305	0.762(5)	6.313	0.1227(3)	6.335	3.830(45)	6.328	8.557(49)
6.773	0.733(3)	2.725	1.720(7)	6.768	0.786(4)	6.777	0.1389(4)	6.783	3.849(37)	6.771	8.712(55)
6.773	0.730(3)	2.731	1.682(6)	6.771	0.773(7)	6.777	0.1402(3)	6.788	3.875(42)	6.778	8.750(67)
6.779	0.730(3)	2.732	1.726(8)	6.784	0.706(12)	6.779	0.1407(4)	6.790	3.851(38)	6.780	8.759(59)
7.204	0.743(3)	2.929	1.548(7)	7.203	0.811(6)	7.204	0.1567(4)	7.213	3.914(35)	7.206	8.861(61)
7.204	0.743(3)	2.938	1.555(6)	7.209	0.811(5)	7.205	0.1571(4)	7.221	3.924(33)	7.216	8.941(65)
7.206	0.741(3)	2.939	1.543(12)	7.213	0.812(5)	7.206	0.1571(4)	7.223	3.922(34)	7.218	8.939(59)
7.718	0.780(3)	3.156	1.402(5)	7.717	0.850(7)	7.721	0.1809(5)	7.721	3.982(33)	7.722	9.062(45)
7.718	0.778(3)	3.162	1.406(6)	7.722	0.848(5)	7.722	0.1809(5)	7.734	3.988(30)	7.733	9.100(51)
7.720	0.778(3)	3.165	1.408(8)	7.726	0.850(5)	7.723	0.1811(5)	7.739	3.988(30)	7.735	9.101(67)
8.271	0.841(4)	3.403	1.279(5)	8.271	0.915(8)	8.271	0.2116(6)	8.276	4.049(30)	8.274	9.256(71)
8.272	0.840(4)	3.408	1.270(4)	8.276	0.916(6)	8.274	0.2119(6)	8.289	4.055(27)	8.287	9.299(69)
8.273	0.838(4)	3.410	1.282(7)	8.280	0.917(6)	8.274	0.2116(6)	8.293	4.054(27)	8.290	9.294(72)

8.861	0.942(5)	3.658	1.178(4)	8.863	1.041(9)	8.864	0.2507(7)	8.868	4.135(26)	8.867	9.422(84)
8.864	0.942(5)	3.664	1.176(5)	8.868	1.031(7)	8.866	0.2506(7)	8.880	4.146(25)	8.880	9.468(75)
8.865	0.941(5)	3.665	1.154(7)	8.872	1.036(8)	8.867	0.2506(7)	8.885	4.134(23)	8.884	9.456(76)
9.496	1.090(5)	3.935	1.071(6)	9.498	1.194(11)	9.498	0.3003(9)	9.506	4.213(25)	9.496	9.608(76)
9.498	1.089(5)	3.939	1.077(5)	9.501	1.197(9)	9.501	0.3002(9)	9.517	4.221(22)	9.510	9.634(66)
9.500	1.090(5)	3.944	1.070(5)	9.505	1.200(9)	9.501	0.3007(9)	9.521	4.229(23)	9.514	9.614(70)
10.175	1.295(7)	4.238	0.971(5)	10.179	1.420(13)	10.175	0.365(1)	10.183	4.325(25)	10.177	9.805(69)
10.177	1.295(7)	4.243	0.993(5)	10.182	1.411(11)	10.179	0.365(1)	10.195	4.323(21)	10.191	9.804(63)
10.180	1.298(7)	4.246	0.996(4)	10.187	1.415(11)	10.181	0.366(1)	10.199	4.335(21)	10.195	9.798(63)
10.909	1.580(7)	4.554	0.931(4)	10.912	1.702(15)	10.909	0.451(1)	10.918	4.441(25)	10.911	9.985(63)
10.912	1.582(7)	4.562	0.932(4)	10.915	1.701(13)	10.913	0.451(1)	10.929	4.441(21)	10.925	9.987(55)
10.915	1.585(7)	4.563	0.917(4)	10.920	1.695(13)	10.917	0.452(1)	10.934	4.445(20)	10.929	9.992(57)
11.686	1.959(9)	4.901	0.865(3)	11.693	2.083(19)	11.688	0.564(1)	11.700	4.603(26)	11.691	10.206(59)
11.690	1.963(9)	4.905	0.856(3)	11.696	2.087(16)	11.691	0.564(2)	11.710	4.589(21)	11.704	10.200(51)
11.693	1.966(9)	4.911	0.857(3)	11.701	2.078(16)	11.696	0.566(2)	11.715	4.589(21)	11.707	10.204(52)
12.52	2.45(1)	5.273	0.810(4)	12.53	2.57(2)	12.523	0.712(2)	12.53	4.78(3)	12.53	10.43(6)
12.52	2.45(1)	5.277	0.807(3)	12.53	2.57(2)	12.527	0.712(2)	12.54	4.79(2)	12.54	10.43(5)
12.53	2.45(1)	5.282	0.818(3)	12.54	2.57(2)	12.533	0.714(2)	12.55	4.80(2)	12.54	10.42(5)
13.42	3.08(1)	5.675	0.773(4)	13.43	3.24(3)	13.419	0.909(2)	13.43	5.07(3)	13.42	10.74(6)
13.42	3.09(1)	5.679	0.767(3)	13.43	3.24(2)	13.423	0.910(2)	13.44	5.06(2)	13.44	10.74(5)
13.43	3.09(1)	5.685	0.764(3)	13.43	3.23(2)	13.430	0.915(3)	13.45	5.05(2)	13.44	10.74(5)
14.38	3.88(2)	6.103	0.748(3)	14.39	4.03(4)	14.381	1.174(3)	14.39	5.39(4)	14.38	11.06(6)
14.38	3.87(2)	6.108	0.745(3)	14.39	4.02(3)	14.384	1.176(3)	14.40	5.38(3)	14.40	11.05(4)
14.39	3.89(2)	6.111	0.741(3)	14.39	4.02(3)	14.392	1.178(4)	14.41	5.39(3)	14.40	11.09(5)
15.41	4.86(2)	6.563	0.731(3)	15.42	4.99(4)	15.410	1.522(4)	15.42	5.81(4)	15.42	11.49(6)
15.41	4.86(2)	6.566	0.730(3)	15.42	4.98(4)	15.415	1.521(4)	15.43	5.79(3)	15.43	11.51(5)
15.42	4.89(2)	6.568	0.733(3)	15.42	4.98(4)	15.423	1.529(4)	15.44	5.80(3)	15.43	11.51(5)
16.51	6.09(3)	7.085	0.742(3)	16.53	6.22(5)	16.516	1.983(5)	16.54	6.37(5)	16.53	12.13(7)
16.51	6.09(3)	7.086	0.741(3)	16.53	6.23(5)	16.520	1.986(5)	16.54	6.40(4)	16.53	12.10(5)
16.52	6.10(3)	7.087	0.743(3)	16.53	6.26(6)	16.530	1.992(6)	16.54	6.39(4)	16.53	12.09(5)
17.70	7.54(3)	7.550	0.769(3)	17.71	7.65(6)	17.700	2.583(7)	17.73	7.11(5)	17.72	12.81(6)
17.70	7.54(3)	7.550	0.768(4)	17.71	7.64(6)	17.705	2.587(7)	17.73	7.12(5)	17.72	12.86(7)
17.71	7.55(4)	7.554	0.768(3)	17.72	7.67(6)	17.713	2.597(8)	17.73	7.13(6)	17.72	12.82(6)
18.96	9.26(4)	8.014	0.816(4)	18.98	9.35(7)	18.974	3.368(9)	18.99	8.03(6)	18.98	13.70(7)
18.97	9.26(4)	8.018	0.814(4)	18.98	9.36(7)	18.979	3.370(9)	18.99	8.04(6)	18.98	13.72(7)
18.97	9.30(4)	8.031	0.817(4)	18.99	9.41(8)	18.991	3.385(10)	19.00	8.08(7)	18.99	13.76(8)

20.33	11.35(5)	20.34	11.38(9)	20.35	4.39(1)	20.36	9.23(7)	20.35	14.86(9)
20.34	11.35(5)	20.34	11.35(8)	20.35	4.39(1)	20.36	9.22(8)	20.35	14.88(9)
20.35	11.37(5)	20.36	11.46(9)	20.37	4.41(1)	20.38	9.28(7)	20.36	14.95(9)
21.79	13.72(6)	21.79	13.64(11)	21.80	5.66(1)	21.81	10.64(9)	21.80	16.22(11)
21.79	13.71(6)	21.79	13.63(11)	21.81	5.66(1)	21.81	10.60(9)	21.80	16.24(10)
21.81	13.77(6)	21.82	13.73(11)	21.83	5.69(2)	21.84	10.72(9)	21.82	16.3(1)
23.36	16.50(7)	23.35	16.33(13)	23.36	7.27(2)	23.37	12.5(1)	23.36	18.0(1)
23.36	16.49(7)	23.35	16.34(14)	23.37	7.27(2)	23.37	12.5(1)	23.36	18.1(1)
23.37	16.53(8)	23.38	16.46(14)	23.39	7.31(2)	23.40	12.6(1)	23.38	18.1(1)
25.03	19.64(9)	25.02	19.60(16)	25.03	9.27(2)	25.04	14.9(1)	25.03	20.4(2)
25.03	19.64(9)	25.02	19.58(17)	25.03	9.25(2)	25.04	15.0(2)	25.03	20.5(3)
25.04	19.70(9)	25.05	19.80(17)	25.06	9.31(3)	25.07	15.0(2)	25.06	20.6(2)
26.82	23.22(10)	26.81	23.07(20)	26.83	11.71(3)	26.83	17.7(2)	26.82	23.1(2)
26.82	23.23(10)	26.82	23.14(21)	26.83	11.71(3)	26.83	17.7(3)	26.82	22.8(2)
26.84	23.26(11)	26.84	23.53(23)	26.85	11.73(3)	26.86	17.9(2)	26.85	23.7(2)
28.73	27.27(12)	28.73	27.05(24)	28.75	14.68(3)	28.75	20.8(2)	28.74	26.3(2)
28.73	27.28(12)	28.73	27.06(24)	28.75	14.66(3)	28.75	20.9(2)	28.74	26.3(2)
28.74	27.31(13)	28.77	27.47(27)	28.76	14.72(4)	28.79	21.4(2)	28.77	26.7(3)
30.79	31.90(14)	30.79	31.51(29)	30.81	18.26(5)	30.80	24.6(3)	30.79	30.1(3)
30.79	31.90(14)	30.79	31.51(29)	30.81	18.17(4)	30.80	24.7(3)	30.79	30.1(3)
30.80	31.98(15)	30.83	31.85(32)	30.82	18.28(5)	30.85	25.0(3)	30.83	30.4(3)
32.99	37.2(2)	32.99	36.9(4)	33.00	22.47(5)	33.01	29.5(3)	33.00	35.1(3)
33.00	37.2(2)	32.99	36.8(4)	33.01	22.50(5)	33.01	29.6(3)	33.00	35.0(4)
33.00	37.2(2)	33.03	37.3(4)	33.03	22.56(5)	33.05	29.9(4)	33.04	35.4(4)
35.36	42.9(2)	35.35	42.9(4)	35.37	27.42(6)	35.37	35.3(4)	35.36	40.7(4)
35.36	43.1(2)	35.35	43.0(4)	35.37	27.46(6)	35.37	35.3(4)	35.36	40.7(4)
35.37	43.0(2)	35.40	43.4(5)	35.40	27.39(7)	35.42	35.6(4)	35.41	41.1(5)
37.90	49.6(2)	37.89	49.9(5)	37.90	33.22(7)	37.90	42.0(5)	37.90	47.4(5)
37.90	49.6(2)	37.89	49.9(5)	37.90	33.25(7)	37.90	41.9(5)	37.90	47.3(5)
37.91	49.5(2)	37.93	50.4(6)	37.94	33.37(8)	37.95	42.3(5)	37.94	47.8(6)
40.62	56.8(3)	40.60	57.6(6)	40.61	39.94(8)	40.62	49.5(5)	40.61	55.0(6)
40.62	56.8(2)	40.60	57.5(6)	40.61	39.92(8)	40.62	49.5(5)	40.61	55.0(6)
40.62	56.8(2)	40.65	58.1(6)	40.66	40.07(9)	40.67	50.0(6)	40.66	55.6(7)
43.53	65.2(3)	43.51	65.7(7)	43.52	47.67(10)	43.53	57.8(6)	43.52	63.2(7)
43.54	65.5(3)	43.51	65.9(7)	43.53	47.68(10)	43.53	57.7(6)	43.52	63.2(7)
43.54	65.2(3)	43.56	66.4(7)	43.57	47.79(9)	43.58	58.3(7)	43.57	63.8(7)

46.64	74.4(3)	46.63	75.1(7)	46.64	56.43(10)	46.65	67.2(7)	46.64	72.8(7)
46.65	74.4(3)	46.63	75.2(7)	46.64	56.44(10)	46.65	67.3(7)	46.64	72.6(7)
46.67	74.5(3)	46.69	75.8(8)	46.68	56.55(9)	46.70	67.8(7)	46.70	73.3(8)
49.98	84.6(4)	49.98	85.3(8)	49.98	66.4(1)	49.99	77.6(8)	49.99	83.2(8)
49.99	84.6(4)	49.98	85.3(8)	49.98	66.4(1)	50.00	77.7(8)	49.99	83.4(8)
50.01	84.7(4)	50.03	86.0(9)	50.02	66.5(1)	50.05	78.3(9)	50.05	83.8(9)
53.57	96.0(4)	53.56	96.3(9)	53.57	77.6(1)	53.58	89.2(9)	53.57	94.6(9)
53.57	96.1(4)	53.57	96.3(9)	53.57	77.6(1)	53.58	89.3(9)	53.58	94.8(9)
53.59	96.1(4)	53.63	97.2(10)	53.60	77.7(1)	53.64	89.9(9)	53.64	95.4(10)
57.42	109.1(4)	57.41	109.3(10)	57.42	90.2(1)	57.43	102.5(10)	57.44	108.0(10)
57.42	109.1(4)	57.41	109.4(10)	57.42	90.3(2)	57.43	102.5(10)	57.44	108.1(11)
57.45	109.3(4)	57.47	110.2(11)	57.45	90.3(1)	57.49	103.2(10)	57.50	108.9(11)
61.55	123.3(5)	61.54	123.8(12)	61.54	104.2(2)	61.56	117.4(11)	61.56	122.9(11)
61.55	123.4(5)	61.55	123.8(11)	61.54	104.3(2)	61.56	117.4(10)	61.56	122.9(11)
61.58	123.6(5)	61.62	123.7(12)	61.58	104.4(2)	61.63	117.2(12)	61.64	122.7(13)
65.98	139.2(5)	65.97	139.6(12)	65.97	119.8(2)	65.98	133.9(12)	65.99	139.4(13)
65.98	139.1(5)	65.98	139.8(12)	65.97	119.9(2)	65.98	133.8(11)	65.99	139.4(12)
66.01	139.3(5)	66.05	140.7(14)	66.00	120.0(2)	66.06	134.7(13)	66.06	140.3(14)
70.72	156.6(6)	70.71	156.5(14)	70.70	137.2(2)	70.72	150.9(12)	70.73	157.3(13)
70.72	156.6(6)	70.71	156.4(12)	70.71	137.2(2)	70.72	150.9(12)	70.73	157.4(13)
70.75	156.7(6)	70.79	157.4(14)	70.74	137.4(2)	70.80	151.7(13)	70.80	158.1(14)
75.79	175.7(7)	75.78	175.7(13)	75.77	156.4(2)	75.79	170.9(13)	75.80	176.8(15)
75.79	175.6(7)	75.79	175.2(14)	75.77	156.3(2)	75.79	171.1(13)	75.80	177.3(15)
75.82	175.9(6)	75.86	177.4(16)	75.81	156.4(2)	75.88	172.2(14)	75.88	177.6(15)
81.23	196.8(8)	81.22	199.3(15)	81.20	177.1(2)	81.17	194.5(13)	81.18	199.3(14)
81.24	196.7(7)	81.22	198.4(16)	81.20	177.3(2)	81.17	194.4(14)	81.23	198.2(16)
81.29	197.3(8)	81.29	197.0(19)	81.21	177.3(3)	81.26	194.9(15)	81.27	200.7(16)
87.00	219.1(8)	86.98	220.7(15)	86.97	199.8(3)	86.99	216.8(14)	87.00	221.8(16)
87.01	219.4(9)	86.98	220.9(16)	86.97	199.8(3)	86.99	215.3(15)	87.00	221.5(15)
87.05	219.9(8)	87.07	220.8(16)	87.03	200.1(3)	87.08	217.2(15)	87.09	222.8(16)
93.24	243.4(10)	93.23	242.0(16)	93.20	223.9(3)	93.23	238.7(14)	93.24	244.6(15)
93.25	243.2(10)	93.23	242.5(16)	93.21	223.8(3)	93.23	238.3(15)	93.24	244.3(15)
93.29	243.5(9)	93.32	242.7(17)	93.26	224.0(3)	93.33	239.1(15)	93.33	244.9(16)
99.94	269.6(11)	99.92	270.7(16)	99.90	250.3(3)	99.93	267.2(13)	99.94	272.6(14)
99.95	269.6(11)	99.93	269.8(16)	99.90	250.3(3)	99.94	266.8(15)	99.94	272.4(15)
100.00	269.6(10)	100.02	270.0(18)	99.96	250.5(3)	100.03	267.7(15)	100.03	272.1(17)

107.12	296.7(11)	107.10	296.3(17)	107.06	278.2(3)	107.11	294.1(15)	107.12	298.8(17)
107.13	296.6(11)	107.10	296.3(17)	107.07	278.4(4)	107.11	293.2(16)	107.12	298.3(16)
107.18	296.9(11)	107.20	296.7(18)	107.13	278.5(4)	107.21	293.6(16)	107.21	298.7(17)
114.82	326.6(12)	114.80	327.0(19)	114.75	308.3(4)	114.81	325.3(16)	114.81	330.1(18)
114.82	327.0(15)	114.80	327.1(19)	114.76	308.4(4)	114.81	325.7(15)	114.82	330.3(18)
114.87	326.9(13)	114.89	329.3(19)	114.81	308.7(4)	114.90	326.1(18)	114.91	331.5(19)
123.06	357.7(13)	123.04	357.7(18)	122.98	340.0(4)	123.05	355.9(15)	123.06	361.5(16)
123.07	358.2(16)	123.04	358.5(18)	122.99	339.9(4)	123.05	356.6(15)	123.06	360.5(17)
123.11	358.0(14)	123.14	359.6(19)	123.05	340.3(5)	123.15	357.6(17)	123.16	361.9(18)
131.90	389.8(14)	131.88	389.5(18)	131.81	372.8(4)	131.89	388.1(15)	131.90	392.8(16)
131.91	390.3(15)	131.88	389.3(18)	131.81	372.7(5)	131.90	388.2(15)	131.91	392.8(17)
131.95	390.7(16)	131.98	390.6(19)	131.88	373.1(5)	131.99	388.5(18)	132.00	393.0(18)
141.38	424.6(16)	141.37	424.6(20)	141.28	407.8(4)	141.38	422.9(17)	141.39	428.0(17)
141.39	424.8(16)	141.37	424.5(19)	141.29	407.9(4)	141.39	422.3(16)	141.39	428.2(18)
141.43	425.3(16)	141.46	429.6(21)	141.34	407.9(5)	141.47	427.6(19)	141.49	431.6(17)
151.54	461.2(17)	151.52	460.4(20)	151.41	443.9(5)	151.53	459.9(17)	151.54	462.4(17)
151.54	461.2(20)	151.52	459.4(19)	151.41	443.8(5)	151.54	457.8(15)	151.55	463.0(17)
151.56	460.2(18)	151.61	460.0(21)	151.46	444.0(5)	151.62	459.2(19)	151.64	464.9(19)
162.41	496.9(18)	162.41	496.0(20)	162.26	481.0(5)	162.43	496.2(16)	162.44	501.3(17)
162.42	496.4(19)	162.41	498.6(20)	162.27	481.0(5)	162.43	497.2(16)	162.45	502.5(17)
162.43	494.5(19)	162.48	497.2(22)	162.31	480.6(6)	162.51	498.0(18)	162.53	501.0(19)
174.08	535.4(20)	174.08	537.6(21)	173.89	519.7(5)	174.13	538.4(18)	174.19	542.4(18)
174.08	539.8(21)	174.08	537.9(21)	173.90	519.3(6)	174.13	538.2(17)	174.19	543.3(18)
174.10	536.3(24)	174.15	537.6(23)	173.92	519.8(6)	174.21	539.2(19)	174.27	543.7(21)
186.58	576.7(23)	186.65	576.8(21)	186.36	558.6(6)	186.67	576.8(17)	186.69	579.0(18)
186.59	572.9(21)	186.65	575.7(21)	186.37	558.3(6)	186.67	577.0(17)	186.69	580.7(18)
186.61	573.0(21)	186.72	575.6(22)	186.38	558.4(7)	186.74	576.8(19)	186.76	580.9(20)
199.95	612.4(23)	200.04	616.1(22)	199.72	598.1(6)	200.06	619.1(18)	200.08	620.5(19)
199.98	612.6(23)	200.04	615.1(21)	199.73	598.2(7)	200.07	619.5(17)	200.08	619.1(19)
200.00	613.0(27)	200.09	615.5(25)	199.73	598.2(7)	200.12	620.0(20)	200.13	620.2(21)
214.29	649.1(24)	214.38	654.3(24)	214.03	638.4(7)	214.41	657.9(20)	214.43	658.8(18)
214.32	652.5(25)	214.38	654.5(24)	214.03	638.7(1.0)	214.41	658.7(20)	214.43	658.7(20)
214.34	653.2(29)	214.41	654.9(26)	214.04	638.6(7)	214.42	657.3(20)	214.45	659.8(23)
229.60	695.6(30)	229.77	689.0(24)	229.34	678.6(8)	229.79	692.1(20)	229.80	694.2(20)
229.69	694.3(26)	229.77	688.6(23)	229.37	678.6(7)	229.79	692.1(19)	229.81	692.8(18)
229.71	695.1(32)	229.77	688.1(25)	229.38	678.5(6)	229.79	693.4(18)	229.81	693.9(19)

246.04	740.5(27)	246.23	733.2(27)	245.74	719.2(8)	246.25	737.3(22)	246.28	736.1(21)
246.16	734.8(27)	246.28	732.3(26)	245.82	719.6(7)	246.30	737.5(20)	246.32	737.3(20)
246.19	735.7(33)	246.28	731.6(25)	245.83	719.6(1.2)	246.31	736.4(21)	246.33	734.9(19)
263.61	776.7(34)	263.85	767.3(28)	263.26	758.2(7)	263.88	773.5(30)	263.89	773.3(29)
263.79	773.2(28)	263.93	768.0(26)	263.41	758.5(13)	263.95	772.5(21)	263.98	772.6(22)
263.79	773.7(33)	263.94	767.5(27)	263.41	758.8(13)	263.97	772.6(22)	263.99	771.7(24)
282.43	795.4(35)	282.67	809.8(31)	282.06	796.1(9)	282.69	814.8(25)	282.77	815.2(31)
282.66	805.5(33)	282.85	808.3(30)	282.25	797.5(15)	282.88	816.6(24)	282.91	816.1(25)
282.66	805.0(39)	282.86	809.6(31)	282.25	797.5(13)	282.89	816.3(25)	282.92	816.0(23)
302.97	853.1(31)	302.96	848.0(33)	302.48	836.1(15)	302.99	855.2(28)	302.99	855.1(26)
302.97	853.7(41)	303.15	848.9(30)	302.48	836.0(16)	303.18	856.4(24)	303.20	855.9(23)
303.24	851.6(32)	303.16	849.9(31)	302.49	835.5(17)	303.18	857.0(25)	303.21	856.4(25)

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