

Table 3: major element concentrations (in wt. %), corrected from olivine addition, of 34 glassy olivine-hosted melt inclusions from Iwate volcano. Concentration are given after normalization to 100% on an anhydrous basis.

	olivine addition (%)	SiO ₂	MgO	FeO	MnO	K ₂ O	CaO	Na ₂ O	Al ₂ O ₃	TiO ₂	P ₂ O ₅
ITM1.1	4.8	48.9(4)	7.89(10)	11.2(3)	0.15(7)	0.070(1)	8.45(6)	1.75(7)	16.2(2)	0.71(1)	0.040(2)
ITM1.2	3.2	48.9(4)	7.37(9)	10.5(3)	0.2(1)	0.100(2)	8.33(6)	1.87(7)	16.1(2)	0.84(1)	0.120(7)
ITM2	7.0	48.9(4)	7.59(10)	12.9(4)	0.19(9)	0.090(2)	8.14(6)	2.08(8)	14.5(2)	0.87(1)	0.080(5)
ITM5.1	6.0	48.6(4)	7.51(10)	11.1(3)	0.16(7)	0.090(2)	9.07(7)	2.02(8)	16.8(2)	0.72(1)	n.d.
ITM5.2	10.2	50.7(5)	8.14(10)	12.1(4)	0.18(8)	0.110(2)	8.90(7)	2.33(9)	15.3(2)	0.85(1)	0.030(2)
ITM6	6.8	48.8(4)	8.02(10)	12.0(4)	0.18(9)	0.140(3)	9.12(7)	1.71(7)	16.2(2)	0.76(1)	n.d.
ITM8	10.4	48.2(4)	9.26(12)	12.2(4)	0.11(5)	0.150(3)	8.87(7)	1.67(7)	15.3(2)	0.80(1)	0.070(4)
ITM10.1	10.6	50.6(5)	7.55(10)	10.4(3)	0.2(1)	0.150(3)	8.81(7)	2.03(8)	15.2(2)	0.81(1)	0.040(2)
ITM10.2	13.6	50.3(5)	7.32(9)	10.1(3)	0.18(8)	0.070(2)	8.65(7)	1.88(8)	16.8(2)	0.65(1)	0.050(3)
ITM11	6.8	51.0(5)	7.56(10)	10.9(3)	0.17(8)	0.170(4)	8.15(6)	2.08(8)	15.2(2)	0.73(1)	0.150(9)
ITM12	4.8	48.3(4)	7.97(10)	11.0(3)	0.2(1)	0.100(2)	8.97(7)	1.78(7)	16.1(2)	0.70(1)	0.150(9)
ITM13	8.0	48.0(4)	8.31(11)	10.9(3)	0.14(6)	0.110(2)	9.34(7)	1.83(7)	16.4(2)	0.70(1)	0.080(5)
ITM14	9.4	52.0(5)	8.25(11)	11.4(3)	0.17(8)	0.220(5)	8.71(7)	1.32(5)	15.2(2)	0.86(1)	0.150(9)
ITM15.1	8.0	50.5(5)	6.91(9)	12.0(4)	0.17(8)	0.190(4)	8.18(6)	2.29(9)	14.9(2)	1.01(1)	0.040(2)
ITM15.2	7.8	51.5(5)	7.02(9)	12.2(4)	0.3(1)	0.140(3)	8.20(6)	2.25(9)	14.4(2)	0.97(1)	0.140(8)
ITM15.3	9.0	51.1(5)	7.36(9)	12.8(4)	0.2(1)	0.150(3)	7.66(6)	2.11(8)	14.4(2)	0.75(1)	0.110(6)
ITM16	9.2	48.8(4)	7.48(10)	11.9(4)	0.12(6)	0.050(1)	9.70(7)	1.54(6)	15.8(2)	0.74(1)	n.d.
ITM17	13.6	51.2(5)	8.76(11)	13.8(4)	0.3(1)	0.250(5)	7.76(6)	2.01(8)	12.5(2)	0.98(1)	0.040(2)
ITM19.1	11.0	49.1(4)	7.40(9)	10.9(3)	0.15(7)	0.110(2)	9.21(7)	1.89(8)	16.7(2)	0.80(1)	0.17(1)
ITM19.2	13.6	44.3(4)	7.90(10)	11.7(3)	0.09(4)	0.140(3)	7.84(6)	1.73(7)	20.9(3)	0.85(1)	0.29(2)
ITM20	10.8	47.5(4)	8.17(10)	12.1(4)	0.19(9)	0.080(2)	9.34(7)	1.85(7)	16.0(2)	0.71(1)	0.110(6)
ITM23	8.6	51.6(5)	7.57(10)	12.2(4)	0.2(1)	0.170(4)	8.86(7)	1.23(5)	15.8(2)	1.01(1)	0.150(9)
ITM24	8.0	52.4(5)	7.38(9)	12.1(4)	0.20(9)	0.140(3)	9.18(7)	1.03(4)	15.4(2)	1.00(1)	0.28(2)
IEM26	11.0	48.5(4)	7.94(10)	12.0(4)	0.19(9)	0.130(3)	9.17(7)	1.84(7)	16.5(2)	0.64(1)	0.030(2)
IEM28.1	10.0	47.4(4)	8.74(11)	10.8(3)	0.18(8)	0.130(3)	8.32(6)	1.92(8)	15.9(2)	0.90(1)	0.100(6)
IEM31.2	9.2	52.1(5)	6.08(8)	12.8(4)	0.2(1)	0.220(5)	7.43(6)	2.29(9)	14.4(2)	0.89(1)	0.100(6)
IEM34.1	16.8	50.7(5)	9.84(13)	13.8(4)	0.20(9)	0.230(5)	7.49(6)	1.96(8)	13.2(2)	0.90(1)	0.18(1)
IEM34.3	9.8	47.2(4)	8.46(11)	11.9(4)	0.20(9)	0.110(2)	10.02(8)	1.59(6)	16.3(2)	0.71(1)	0.18(1)
IEM34.4	17.8	50.0(5)	9.98(13)	14.0(4)	0.13(6)	0.170(4)	7.78(6)	1.92(8)	13.0(2)	0.90(1)	0.140(8)
IEM35	9.8	49.5(4)	6.83(9)	10.3(3)	0.16(7)	0.140(3)	8.51(6)	2.30(9)	16.5(2)	0.62(1)	0.110(6)
IEM36	13.2	49.4(4)	7.56(10)	11.9(4)	0.16(7)	0.100(2)	8.45(6)	2.23(9)	16.0(2)	0.66(1)	0.19(1)
IEM37	12.2	52.0(5)	8.47(11)	12.2(4)	0.14(7)	0.170(4)	8.90(7)	1.22(5)	15.2(2)	0.82(1)	0.070(4)
IEM38	15.0	50.2(5)	8.04(10)	13.6(4)	0.18(9)	0.150(3)	8.41(6)	2.26(9)	14.0(2)	1.09(2)	0.140(8)
IEM39	10.4	49.4(4)	7.20(9)	10.3(3)	0.12(6)	0.100(2)	9.16(7)	1.67(7)	16.7(2)	0.92(1)	0.030(2)

Units in parenthesis represent 1 standard deviation of least units cited thus, 48.8(4) should be read as 48.8±0.4.