

Table 2: Electron Microprobe analyses of individual synthetic crystalline phases.

Lab label	Hd ₉₀ 96-1 no of analyses	Hd C 9	Hd ₉₀ 93-1 10	IIm 100 9	IIm ₉₅ 93-1 8	IIm 94-1 (+ 2-3% Mt) 19
Element wt % (1)						
Ca	14.05(0.62)	15.88(0.12)	14.74(0.41)	0.00(0.00)	0.00(0.00)	0.00(0.00)
Fe	25.09(0.97)	22.41(0.21)	24.22(0.55)	36.47(0.17)	38.28(0.14)	37.56(0.50)
Ti	0.01(0.02)	0.01(0.01)	0.00(0.00)	30.89(0.22)	29.10(0.13)	30.45(0.17)
Si	22.20(0.32)	22.12(0.18)	22.14(0.16)	0.01(0.00)	0.01(0.01)	0.01(0.01)
O	38.32(0.59)	38.18(0.56)	37.93(0.57)	31.44(0.61)	31.00(0.49)	31.49(0.50)
TOTAL	99.67	98.60	99.03	98.81	98.57	99.51
Formula (1)						
Ca	0.88(0.03)	1.00(0.01)	0.93(0.02)	0.00(0.00)	0.00(0.00)	0.00(0.00)
Fe	1.13(0.05)	1.01(0.01)	1.10(0.03)	1.00(0.01)	1.06(0.01)	1.03(0.01)
Ti	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.99(0.01)	0.94(0.01)	0.97(0.01)
Si	1.98(0.03)	1.98(0.03)	1.99(0.02)	0.00(0.00)	0.00(0.00)	0.00(0.00)
O	6.01(0.05)	6.01(0.05)	5.99(0.04)	3.01(0.02)	3.00(0.02)	3.00(0.02)

Table 2 continued: Electron Microprobe analyses of individual synthetic crystalline phases.

Lab label	Fe ₃ O ₄ from J.L. Haas Jr. no of analyses	Mt ₁₀₀ 95-1 11	Usp ₆₀ 93-1 6	Usp ₈₀ 94-1 14	Fay _{compn} of 10-28-93 14
Element wt % (1)					
Ca	0.00(0.01)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
Fe	72.41(0.25)	72.53(0.37)	59.73(0.51)	54.85(0.39)	55.29(0.25)
Ti	0.00(0.00)	0.00(0.00)	12.66(0.37)	16.79(0.24)	0.00(0.00)
Si	0.02(0.01)	0.02(0.01)	0.02(0.01)	0.01(0.01)	13.63(0.11)
O	27.29(0.58)	27.57(0.22)	28.09(0.33)	28.16(0.67)	31.17(0.47)
TOTAL	99.73	100.12	100.49	99.82	100.1
Formula (1)					
Ca	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
Fe	3.02(0.04)	3.01(0.01)	2.42(0.02)	2.22(0.03)	2.02(0.02)
Ti	0.00(0.00)	0.00(0.00)	0.60(0.02)	0.79(0.02)	0.00(0.00)
Si	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.99(0.01)
O	3.98(0.04)	3.99(0.01)	3.98(0.02)	3.98(0.04)	3.98(0.03)

Table 3: Electron microprobe analyses of synthetic crystalline phases in (unreacted) starting mechanical mixtures.

Mechanical Mixture	Phase	3Ttn-Fa Titanite	3Ttn-Fa Titanite	Wo ₅₀ Fs ₅₀ -Il ₁₀₀ Fayalite Hedenbergite	Wo ₄₅ Fs ₅₅ -3Il ₉₅ Hedenbergite
no of analyses	5	5	6	8	6
Element wt % (1)					
Ca	19.77(0.17)	20.17(0.08)	0.40(0.07)	15.52(0.36)	13.94(1.00)
Fe	0.65(0.07)	0.35(0.01)	53.46(0.40)	23.08(0.34)	25.71(1.29)
Ti	24.99(0.99)	24.76(0.10)	0.73(0.10)	0.43(0.23)	0.92(0.27)
Si	13.83(0.42)	13.81(0.06)	13.44(0.13)	21.87(0.32)	21.69(0.39)
O	40.45(0.53)	41.82(0.17)	31.19(0.60)	37.97(0.30)	38.25(0.50)
TOTAL	99.69	100.91	99.22	98.87	100.52
Formula (1)					
Ca	0.98(0.00)	0.97(0.04)	0.02(0.00)	0.98(0.04)	0.87(0.06)
Fe	0.02(0.00)	0.01(0.00)	1.96(0.02)	1.04(0.02)	1.15(0.05)
Ti	1.03(0.01)	1.00(0.00)	0.03(0.00)	0.02(0.01)	0.05(0.01)
Si	0.97(0.04)	0.95(0.04)	0.98(0.02)	1.97(0.02)	1.94(0.03)
O	5.00(0.02)	5.06(0.02)	4.00(0.03)	5.99(0.02)	5.99(0.05)

Table 3 continued

Mechanical Mixture	$\text{Wo}_{50}\text{Fs}_{50}-\text{Il}_{100}$	$\text{Wo}_{50}\text{Fs}_{50}-\text{Il}_{95}$
Phase	Ilmenite	Ilmenite
no of analyses	8	8
Element wt % (1)		
Ca	0.34(0.04)	0.30(0.04)
Fe	36.63(0.32)	38.02(0.46)
Ti	30.62(0.19)	29.69(0.44)
Si	0.03(0.00)	0.03(0.02)
O	30.97(0.34)	31.67(1.11)
TOTAL	98.59	99.72
Formula (1)		
Ca	0.01(0.00)	0.01(0.00)
Fe	1.01(0.01)	1.04(0.01)
Ti	0.02(0.01)	0.94(0.03)
Si	0.99(0.00)	0.00(0.00)
O	2.99(0.02)	3.01(0.04)

Table 4a: Titanite electron microprobe analyses.

	HIFT-92	HIFT-11	HIFT-96	HIQMT-145	HIQMT-114
Run no			<1,	<1,	3700,
bars, °C, buffer	2000, 800, WM	2000, 699, WM	900, Fe-sat	800, FMQ	800, FMQ
REACTANTS	3Ttn-Fa	Ttn-Fa	3Ttn-Fa	$\text{Wo}_{50}\text{Fs}_{50}-\text{Il}_{100}$	Ttn- Mt-Qz
no of analyses	5	9	10	11	6
ELEMENT wt % (1)					
Ca	20.01(0.30)	19.64(0.55)	19.70(0.45)	20.41(0.42)	19.29(0.33)
Fe	0.81(0.50)	1.47(1.62)	0.57(0.21)	0.87(0.43)	0.77(0.07)
Ti	23.84(0.89)	22.77(1.96)	24.48(0.69)	23.98(0.57)	24.66(0.59)
Si	14.08(0.39)	14.12(0.81)	14.19(0.74)	14.39(0.32)	13.50(0.30)
O	40.03(0.66)	41.34(1.21)	40.76(0.80)	40.50(1.22)	40.26(0.80)
TOTAL	98.76	99.33	99.70	100.15	98.48
Formula (1)					
Ca	0.99(0.02)	0.96(0.03)	0.97(0.02)	1.00(0.02)	0.96(0.02)
Fe	0.03(0.02)	0.05(0.06)	0.02(0.01)	0.03(0.02)	0.03(0.00)
Ti	0.99(0.03)	0.93(0.08)	1.01(0.03)	0.98(0.02)	1.03(0.03)
Si	1.00(0.03)	0.99(0.06)	0.99(0.04)	1.01(0.03)	0.96(0.02)
O	4.99(0.05)	5.07(0.09)	5.01(0.04)	4.98(0.06)	5.02(0.05)

Table 4a continued: Titanite electron microprobe analyses.

	HIQMT-148	HIQMT-154
Run no		
bars, °C, buffer	3000, 700, FMQ	2000, 690, FMQ
REACTANTS	Ttn-Usp ₂₅ -Qz	Ttn-Usp ₆₀ -Qz
no of analyses	8	7
ELEMENT wt % (1)		
Ca	19.64(0.15)	19.98(0.32)
Fe	0.68(0.34)	0.81(0.09)
Ti	24.60(0.14)	24.83(0.85)
Si	13.78(0.16)	13.65(0.24)
O	40.16(0.40)	40.87(0.34)
TOTAL	98.87	100.15
Formula (1)		
Ca	0.98(0.01)	0.98(0.01)
Fe	0.02(0.01)	0.03(0.00)
Ti	1.02(0.01)	1.02(0.03)
Si	0.98(0.01)	0.96(0.02)
O	5.00(0.02)	5.02(0.02)

Table 4b: Fayalite electron microprobe analyses.

	HIFT-9	HIFT-11	HIFT-13b	HIFT-15b
Run no				
bars, °C, buffer	2000, 800, WM	2000, 699, WM	2000, 700, CCO	2000, 595, CCO
REACTANTS	Ttn-Fa	Ttn-Fa	Ttn-Fa	Ttn-Fa
no of analyzed grains	8	8	4	6
ELEMENT wt % (1)				

Ca	0.20(0.08)	0.19(0.02)	0.20(0.05)	0.18(0.03)
Fe	53.91(0.31)	53.96(0.23)	54.99(0.20)	54.40(0.33)
Ti	0.26(0.10)	0.39(0.05)	0.41(0.09)	0.38(0.06)
Si	13.46(0.20)	13.43(0.26)	13.82(0.16)	13.41(0.13)
O	31.11(0.69)	31.12(0.25)	31.85(0.20)	30.54(0.50)
TOTAL	98.94	99.09	101.27	98.91
Formula (1)				
Ca	0.01(0.00)	0.01(0.00)	0.01(0.00)	0.01(0.00)
Fe	1.99(0.02)	1.99(0.02)	1.98(0.02)	2.02(0.02)
Ti	0.01(0.00)	0.02(0.00)	0.02(0.00)	0.02(0.00)
Si	0.99(0.02)	0.99(0.02)	0.99(0.01)	0.99(0.02)
O	4.00(0.04)	4.00(0.02)	4.00(0.00)	3.96(0.03)

Table 4c: Hedenbergite electron microprobe analyses.

Run no	HIFT-92	HIFT-90	HIFT-13b	HIFT-15b	HIFT-9
bars, °C, buffer	3400, 750, CCO	2000, 800, CCO	2000, 700, CCO	2000, 595, CCO	2000, 800, WM
REACTANTS	3Ttn-Fa	3Ttn-Fa	Ttn-Fa	Ttn-Fa	Ttn-Fa
no of analyses	4	13	6	10	4
ELEMENT wt % (1)					
Ca	12.59(0.73)	13.47(0.76)	14.20(0.62)	14.33(0.72)	15.23(0.33)
Fe	26.47(0.69)	24.36(0.88)	25.45(0.94)	24.39(0.73)	23.12(0.62)
Ti	1.03(0.53)	1.03(0.51)	0.63(0.25)	0.65(0.63)	0.96(0.37)
Si	21.45(0.40)	21.56(0.32)	22.20(0.25)	21.66(0.30)	21.98(0.25)
O	37.76(0.53)	37.81(0.54)	38.65(0.38)	38.02(1.13)	38.13(0.32)
TOTAL	99.30	99.24	101.13	99.05	99.42
Formula (1)					
Ca	0.78(0.04)	0.86(0.05)	0.88(0.04)	0.90(0.04)	0.96(0.02)
Fe	1.20(0.04)	1.11(0.04)	1.13(0.04)	1.10(0.04)	1.04(0.03)
Ti	0.05(0.03)	0.05(0.03)	0.03(0.01)	0.03(0.03)	0.05(0.02)
Si	1.94(0.04)	1.96(0.03)	1.96(0.01)	1.95(0.04)	1.97(0.02)
O	6.00(0.01)	6.02(0.03)	6.00(0.01)	6.01(0.07)	5.99(0.01)

Table 4c continued: Hedenbergite electron microprobe analyses.

Run no	HIFT-11	HIFT-88b	HIQMT-148	HIQMT-61	HIQMT-108
bars, °C, buffer	2000, 699, WM	<1, 900	3000, 700, FMQ	1985, 749, CCO	3800, 675, FMQ
REACTANTS	Ttn-Fa	Ttn-Fa	Ttn-Usp ₂₅ -Qz	Ttn-Usp ₅₀ -Qz	Ttn-Mt-Qz
no of analyses	7	6	14	13	8
ELEMENT wt % (1)					
Ca	13.95(0.43)	14.68(0.25)	13.95(0.40)	14.18(0.50)	14.22(0.60)
Fe	23.96(0.58)	24.50(0.56)	24.56(0.65)	24.40(0.73)	25.14(0.67)
Ti	0.97(0.39)	0.60(0.27)	0.27(0.14)	0.72(0.38)	0.33(0.11)
Si	21.50(0.31)	21.76(0.28)	21.94(0.26)	21.94(0.40)	22.41(0.32)
O	37.76(0.72)	38.32(0.50)	37.70(0.37)	38.31(0.57)	38.71(0.56)
TOTAL	98.14	99.86	98.43	99.54	100.81
Formula (1)					
Ca	0.89(0.03)	0.92(0.01)	0.89(0.03)	0.89(0.03)	0.88(0.03)
Fe	1.10(0.02)	1.10(0.02)	1.12(0.03)	1.10(0.03)	1.12(0.03)
Ti	0.05(0.02)	0.03(0.01)	0.01(0.01)	0.04(0.02)	0.02(0.01)
Si	1.96(0.03)	1.94(0.01)	1.99(0.02)	1.96(0.03)	1.98(0.01)
O	6.00(0.05)	6.01(0.02)	5.99(0.02)	6.01(0.05)	6.00(0.02)

Table 4c continued: Hedenbergite electron microprobe analyses.

Run no	HIQMT - 116B	HIQMT - 10	HIFT-15a	HIFT-10	HIFT-12
bars, °C, buffer	3400, 750, FMQ	1020, 699, CCO	2000, 595, CCO	2000, 800, WM	2000, 699, WM
REACTANTS	Ttn- Mt-Qz	Ttn- Mt-Qz	Wo ₄₅ Fs ₅₅ -Il ₁₀₀	Wo ₅₀ Fs ₅₀ -Il ₁₀₀	Wo ₅₀ Fs ₅₀ -Il ₁₀₀
no of analyses	9	6	3	4	10
ELEMENT wt % (1)					
Ca	14.23(0.38)	14.56(1.24)	14.83(0.22)	15.49(0.42)	15.43(0.48)
Fe	25.34(0.49)	23.12(1.19)	24.26(0.23)	22.95(0.36)	23.16(0.56)
Ti	0.37(0.09)	0.34(0.15)	0.30(0.10)	0.46(0.21)	0.45(0.20)
Si	22.43(0.17)	22.59(0.26)	21.83(0.17)	21.70(0.14)	21.62(0.23)
O	38.85(0.35)	39.00(0.43)	37.93(0.28)	38.10(0.57)	38.38(0.40)

TOTAL	101.22	101.61	99.15	98.7	99.04
Formula (1)					
Ca	0.88(0.02)	0.89(0.07)	0.94(0.01)	0.98(0.03)	0.97(0.03)
Fe	1.12(0.02)	1.10(0.06)	1.10(0.02)	1.04(0.02)	1.04(0.03)
Ti	0.02(0.01)	0.02(0.01)	0.02(0.01)	0.02(0.01)	0.02(0.01)
Si	1.98(0.01)	1.98(0.01)	1.96(0.01)	1.95(0.01)	1.94(0.02)
O	6.01(0.02)	6.00(0.01)	5.99(0.01)	6.01(0.02)	6.03(0.03)

Table 4c: Hedenbergite electron microprobe analyses.

Run no	HIQMT-60	HIQMT-58
bars, °C, buffer	1985, 749, CCO	1000, 803, CCO
REACTANTS	W _{0.45} Fs ₅₅ -Il ₉₀	W _{0.45} Fs ₅₅ -Il ₉₀
no of analyses	11	5
ELEMENT wt % (1)		
Ca	14.27(0.47)	14.62(0.20)
Fe	25.07(0.68)	25.15(0.19)
Ti	0.62(0.55)	0.36(0.09)
Si	21.71(0.37)	21.77(0.23)
O	38.30(0.79)	37.85(0.46)
TOTAL	99.98	99.74
Formula (1)		
Ca	0.89(0.03)	0.92(0.01)
Fe	1.13(0.03)	1.14(0.01)
Ti	0.03(0.03)	0.02(0.00)
Si	1.94(0.04)	1.96(0.02)
O	6.01(0.05)	5.97(0.04)

Table 4d: Ilmenite electron microprobe analyses.

RUN no	HIFT-92	HIFT-90	HIFT-13b	HIFT-15b	HIFT-9
bars, °C, buffer	3400, 750, CCO	2000, 800, CCO	2000, 700, CCO	2000, 595, CCO	2000, 800, WM
REACTANTS	3Ttn-Fa	3Ttn-Fa	Ttn-Fa	Ttn-Fa	Ttn-Fa
no of analyses	9	13	5	8	8
ELEMENT wt % (1)					
Ca	0.72 (0.16)	0.74(0.15)	0.45(0.23)	0.30 (0.11)	0.61 (0.20)
Fe	37.23(0.85)	36.48(0.35)	38.48(0.33)	37.56(0.26)	36.61 (0.62)
Ti	29.52(0.55)	29.08(0.37)	28.99(0.25)	29.75(0.15)	29.60 (0.70)
Si	0.15(0.12)	0.13(0.10)	0.16(0.15)	0.08(0.10)	0.41 (0.35)
O	31.38(0.42)	31.58(1.18)	30.91(0.33)	31.81(0.73)	31.70 (0.41)
TOTAL	99.00	98.01	99.01	99.50	98.93
Formula (1)					
Ca	0.03(0.01)	0.03(0.01)	0.02(0.01)	0.01(0.00)	0.02 (0.01)
Fe	1.02(0.02)	1.00(0.02)	1.06(0.01)	1.02(0.02)	1.01 (0.02)
Ti	0.94(0.02)	0.93(0.02)	0.93(0.01)	0.94(0.02)	0.95 (0.02)
Si	0.01(0.01)	0.01(0.01)	0.01(0.01)	0.00(0.01)	0.02 (0.02)
O	3.00(0.02)	3.03(0.05)	2.98(0.01)	3.02(0.03)	3.01 (0.03)

Table 4d: Ilmenite electron microprobe analyses.

RUN no	HIFT-11	HIFT-88b	HIQMT-61	HIQMT-59	HIQMT-63
bars, °C, buffer	2000, 699, WM	900, <1 atm	1985, 749, CCO	1000, 803, CCO	1001, 701, CCO
REACTANTS	Ttn-Fa	Ttn-Fa	Ttn-Usp ₅₀ -Qz	Ttn-Usp ₅₀ -Qz	Ttn-Usp ₅₀ -Qz
no of analyses	5	4	10	14	14
ELEMENT wt % (1)					
Ca	0.43(0.01)	0.56 (0.06)	0.34(0.16)	0.40(0.11)	0.43(0.27)
Fe	36.45(0.25)	36.56(0.16)	37.52(0.63)	38.57(0.39)	38.31(0.94)
Ti	30.09(0.21)	30.86(0.16)	29.53(0.41)	29.42(0.52)	29.85(1.33)
Si	0.12(0.03)	0.15(0.14)	0.10(0.01)	0.21(0.52)	0.14(0.20)
O	31.57(0.44)	32.09(0.35)	31.11(0.41)	31.94(0.97)	31.37(1.07)
TOTAL	98.66	100.22	98.60	100.54	100.10
Formula (1)					
Ca	0.02(0.00)	0.02(0.00)	0.01(0.01)	0.01(0.00)	0.02(0.01)
Fe	1.00(0.01)	0.99(0.01)	1.04(0.02)	1.04(0.01)	1.04(0.03)
Ti	0.96(0.01)	0.97(0.01)	0.95(0.01)	0.93(0.03)	0.95(0.03)
Si	0.01(0.00)	0.01(0.01)	0.01(0.01)	0.01(0.01)	0.01(0.01)

O	3.02(0.02)	3.02(0.01)	3.00(0.01)	3.01(0.03)	2.98(0.04)
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Table 4d: Ilmenite electron microprobe analyses.

RUN no	HIQMT-148	HIQMT-108	HIQMT-116B	HIQMT-118	HIFT-89
bars, °C, buffer	3000, 700, FMQ	3800, 675, FMQ	3400, 750, FMQ	3400, 700, FMQ	2000, 800, CCO
REACTANTS	Ttn-Usp ₂₅ -Qz	Ttn-Mt-Qz	Ttn-Mt-Qz	Ttn-Mt-Qz	W ₄₅ Fs ₅₅ - Il ₉₅
no of analyses	12	8	10	14	6
ELEMENT wt % (1)					
Ca	0.26(0.14)	0.23(0.08)	0.32(0.32)	0.30(0.07)	0.16(0.05)
Fe	39.30(0.32)	39.42(0.50)	39.40(0.45)	39.70(0.18)	38.57(0.31)
Ti	28.57(0.46)	28.92(0.31)	29.03(0.26)	29.00(0.15)	29.10(0.26)
Si	0.04(0.07)	0.03(0.02)	0.07(0.16)	0.03(0.03)	0.01(0.00)
O	30.94(1.24)	31.97(0.62)	31.91(0.31)	32.01(0.40)	30.75(0.21)
TOTAL	99.11	100.57	100.74	101.03	98.56
Formula (1)					
Ca	0.01(0.01)	0.01(0.00)	0.01(0.01)	0.01(0.00)	0.01(0.00)
Fe	1.09(0.03)	1.07(0.01)	1.06(0.02)	1.07(0.01)	1.07(0.00)
Ti	0.92(0.03)	0.91(0.01)	0.91(0.01)	0.91(0.01)	0.94(0.01)
Si	0.00(0.00)	0.00(0.00)	0.00(0.01)	0.00(0.00)	0.00(0.00)
O	2.98(0.06)	3.01(0.01)	3.01(0.01)	3.01(0.02)	2.98(0.01)

Table 4d continued: Ilmenite electron microprobe analyses.

Run no	HIFT-13a	HIFT-15a	HIFT-10	HIFT-12	HIQMT-58
bars, °C, buffer	2000, 700, CCO	2000, 595, CCO	2000, 800, WM	2000, 699, WM	1000, 803, CCO
REACTANTS	W ₄₅ Fs ₅₅ -Il ₁₀₀	W ₅₀ Fs ₅₀ -Il ₁₀₀	W ₅₀ Fs ₅₀ -Il ₁₀₀	W ₅₀ Fs ₅₀ -Il ₁₀₀	W ₄₅ Fs ₅₅ -Il ₉₀
no of analyses	3	8	7	11	5
ELEMENT wt % (1)					
Ca	0.19(0.04)	0.18(0.03)	0.33(0.06)	0.26(0.04)	0.39(0.04)
Fe	37.37(0.07)	36.64(0.16)	36.67(0.18)	36.54(0.22)	404.40(0.56)
Ti	30.65(0.18)	31.55(0.17)	30.78(0.10)	31.28(0.17)	27.72(0.53)
Si	0.03(0.02)	0.02(0.03)	0.04(0.03)	0.02(0.01)	0.10(0.09)
O	31.78(1.43)	32.16(0.43)	31.85(0.27)	31.89(0.45)	31.05(0.40)
TOTAL	99.82	100.55	99.67	99.99	99.66
Formula (1)					
Ca	0.01(0.00)	0.02(0.00)	0.01(0.00)	0.01(0.00)	0.02(0.00)
Fe	1.01(0.03)	0.98(0.01)	1.00(0.00)	0.99(0.01)	1.11(0.01)
Ti	0.97(0.03)	0.99(0.01)	0.97(0.02)	0.99(0.01)	0.89(0.02)
Si	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.01(0.00)
O	3.01(0.06)	3.02(0.01)	3.02(0.01)	3.01(0.02)	2.98(0.01)

Table 4d continued: Ilmenite electron microprobe analyses.

Run no	HIQMT-60
bars, °C, buffer	1985, 749, CCO
REACTANTS	W ₄₅ Fs ₅₅ -Il ₉₀
no of analyses	9
ELEMENT wt % (1)	
Ca	0.27(0.19)
Fe	40.09(0.42)
Ti	27.55(0.46)
Si	0.18(0.31)
O	31.91(0.75)
TOTAL	100.00
Formula (1)	
Ca	0.01(0.01)
Fe	1.09(0.02)
Ti	0.87(0.02)
Si	0.01(0.02)
O	3.02(0.02)

Table 4e: Magnetite electron microprobe analyses

Run no	HIQMT-135	HIQMT-153	HIQMT-3	HIQMT-145
bars, °C, buffer	2000, 800, FMQ	2000, 690, FMQ	1020, 800, FMQ	<1, 800, FMQ
REACTANTS	W ₅₀ Fs ₅₀ -Il ₁₀₀	W ₄₅ Fs ₅₅ -3Il ₉₅	W ₄₅ Fs ₅₅ -3Il ₁₀₀	W ₄₅ Fs ₅₅ -Il ₁₀₀
no of analyses	14	2	10	10

ELEMENT	wt %	(1)		
Ca	0.24(0.05)	0.14(0.01)	0.57(0.34)	0.20(0.04)
Fe	62.75(0.91)	68.65(0.087)	61.09(0.93)	62.48(0.36)
Ti	8.91(0.77)	3.81(0.17)	9.27(0.74)	9.60(0.07)
Si	0.10(0.06)	0.03(0.00)	0.38(0.34)	0.07(0.04)
O	28.10(0.59)	27.93(0.15)	27.63(0.55)	28.31(0.84)
TOTAL	100.09	100.56	98.94	100.66
Formula	(1)			
Ca	0.01(0.00)	0.01(0.00)	0.03(0.02)	0.01(0.00)
Fe	2.56(0.05)	2.81(0.03)	2.52(0.06)	2.53(0.05)
Ti	0.42(0.04)	0.18(0.01)	0.45(0.03)	0.45(0.01)
Si	0.01(0.01)	0.00(0.00)	0.03(0.03)	0.01(0.00)
O	4.00(0.04)	3.99(0.03)	3.97(0.02)	4.00(0.05)