

Table S1. Measured concentration of elements in precipitates.

Element (wt%)	FS007	FS009	FS010
Na	3.1	2.4	2.1
Mg	6.9	7.2	7.1
Al	5.2	3.0	<0.1
Si	16.7	17.5	17.9
S	<0.1	<0.1	<0.1
Fe	19.8	14.2	18.7

Table S2. Chemical composition measured by TEM-EDS.

Element (wt%)	FS009O			FS009R1		
	A	B	C	A	B	C
O	54.41(1.19)	54.79(1.37)	48.23(0.82)	55.66(1.15)	56.78(1.56)	56.58(1.44)
Na	2.61(0.30)	1.81(0.30)	1.25(0.16)	2.07(0.26)	2.38(0.38)	2.06(0.38)
Mg	7.86(0.51)	7.49(0.57)	8.19(0.37)	8.25(0.48)	9.28(0.71)	9.79(0.66)
Al	1.76(0.28)	1.98(0.38)	2.22(0.21)	1.91(0.26)	2.63(0.41)	2.53(0.40)
Si	17.59(0.76)	14.29(0.80)	20.39(0.60)	18.12(0.73)	17.78(0.99)	16.82(0.93)
Fe	15.77(0.82)	19.64(1.05)	19.72(0.65)	13.99(0.73)	11.15(1.00)	12.23(0.88)