

FAYALITE, Rockport, Mass.  
from Francis Birch 17 June 1970  
Electron probe analysis

Elements identified by wavelength scan:  
Fe, Si, Mn, Zn

Itoanalysis  
(Feb. 18-'70)

Electron microprobe analysis:

FeO (total iron)	67.8	67.2 (total)
SiO <sub>2</sub>	29.3	29.6
MnO	2.3	2.0
ZnO*	~ 0.2	0.47
MgO**	< 0.1	< 0.1
Al <sub>2</sub> O <sub>3</sub> ***	$\frac{< 0.1}{99.7}$	~ < 0.1
		TiO <sub>2</sub> .01
		CaO .03

\* visual estimate from intensity of scanning peak height

\*\* counting rate slightly above background but there are no good standards in this range, estimated value approximately 0.04 wt.%.

\*\*\* counting rate slightly above background but there are no good standards in this range, estimated value approximately 0.07 wt.%.

John C. Drake