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Table 2 Iron and multiple sulfur isotopic compositions of pyrite and magnetite grains from the VMS and BIF ore samples.

Sample	Analyses	$\delta^{56}\text{Fe}$ (‰)	$\delta^{57}\text{Fe}$ (‰)	δ^{34} (‰)	δ^{33} (‰)	δ^{36} (‰)	$\Delta^{33}\text{S}$ (‰)	$\Delta^{36}\text{S}$ (‰)
HTM-1	Pyrite	0.04 ± 0.07	0.11 ± 0.09	1.52 ± 0.13	0.73 ± 0.07	3.04 ± 0.29	-0.05 ± 0.007	0.05 ± 0.10
HTM-2	Pyrite	0.08 ± 0.06	0.14 ± 0.06	0.45 ± 0.13	0.18 ± 0.07	0.97 ± 0.29	-0.05 ± 0.007	0.03 ± 0.10
HTM-3	Pyrite	0.00 ± 0.06	0.00 ± 0.07	0.49 ± 0.13	0.21 ± 0.07	1.04 ± 0.29	-0.05 ± 0.007	0.02 ± 0.10
HTM-4	Pyrite	/	/	0.11 ± 0.13	0.00 ± 0.07	0.37 ± 0.29	-0.05 ± 0.007	0.08 ± 0.10
HTD-1	Pyrite	/	/	0.56 ± 0.13	0.22 ± 0.07	1.23 ± 0.29	-0.06 ± 0.007	0.08 ± 0.10
HTD-2	Pyrite	/	/	0.54 ± 0.13	0.20 ± 0.07	1.18 ± 0.29	-0.08 ± 0.007	0.07 ± 0.10
HTD-3	Pyrite	/	/	0.98 ± 0.13	0.46 ± 0.07	1.99 ± 0.29	-0.05 ± 0.007	0.03 ± 0.10
HTD-4	Pyrite	/	/	0.83 ± 0.13	0.36 ± 0.07	1.72 ± 0.29	-0.06 ± 0.007	0.06 ± 0.10
HTD-5	Pyrite	/	/	0.85 ± 0.13	0.40 ± 0.07	1.75 ± 0.29	-0.04 ± 0.007	0.05 ± 0.10
HTB-1	Pyrite	-0.53 ± 0.06	-0.76 ± 0.08	0.98 ± 0.13	0.44 ± 0.07	2.06 ± 0.29	-0.06 ± 0.007	0.09 ± 0.10
HTB-2	Pyrite	-0.58 ± 0.06	-0.94 ± 0.08	0.70 ± 0.13	0.28 ± 0.07	1.43 ± 0.29	-0.08 ± 0.007	0.01 ± 0.10
HTB-3	Pyrite	0.16 ± 0.07	0.24 ± 0.07	1.61 ± 0.13	0.69 ± 0.07	3.30 ± 0.29	-0.13 ± 0.007	0.14 ± 0.10
HTB-4	Pyrite	0.24 ± 0.07	0.31 ± 0.07	0.98 ± 0.13	0.44 ± 0.07	2.06 ± 0.29	-0.06 ± 0.007	0.11 ± 0.10
HTB-5	Pyrite	0.51 ± 0.06	0.77 ± 0.07	1.59 ± 0.13	0.76 ± 0.07	3.12 ± 0.29	-0.06 ± 0.007	0.01 ± 0.10
HTB-6	Pyrite	/	/	0.22 ± 0.13	-0.02 ± 0.07	0.66 ± 0.29	-0.13 ± 0.007	0.15 ± 0.10
XLH-Si1	Magnetite	0.69 ± 0.07	1.09 ± 0.08	/	/	/	/	/
XLH-Si2	Magnetite	0.55 ± 0.06	0.93 ± 0.08	/	/	/	/	/
XLH-Si3	Magnetite	0.52 ± 0.07	0.81 ± 0.09	/	/	/	/	/
XLH-Si4	Magnetite	0.48 ± 0.07	0.74 ± 0.09	/	/	/	/	/
TYG-Si1	Magnetite	-0.78 ± 0.06	-1.21 ± 0.07	/	/	/	/	/

TYG-Si2	Magnetite	-0.72 ± 0.07	-1.05 ± 0.07	/	/	/	/	/
XD-Si1	Magnetite	-0.83 ± 0.07	-1.27 ± 0.08	/	/	/	/	/
XD-Si2	Magnetite	-0.75 ± 0.06	-1.18 ± 0.07	/	/	/	/	/
XD-Si3	Magnetite	-0.65 ± 0.06	-0.98 ± 0.06	/	/	/	/	/
XD-Su1	Pyrite	-1.06 ± 0.07	-1.59 ± 0.08	/	/	/	/	/
	Magnetite	1.04 ± 0.02	1.40 ± 0.06	/	/	/	/	/
XD-Su2	Pyrite	-1.29 ± 0.06	-1.93 ± 0.08	-2.37 ± 0.13	-1.29 ± 0.07	-4.41 ± 0.29	-0.06 ± 0.007	0.03 ± 0.10
	Magnetite	0.85 ± 0.07	1.32 ± 0.09	/	/	/	/	/
XD-Su3	Pyrite	-1.16 ± 0.06	-1.76 ± 0.08	-3.36 ± 0.13	-1.78 ± 0.07	-6.33 ± 0.29	-0.04 ± 0.007	0.00 ± 0.10
	Magnetite	0.94 ± 0.05	1.38 ± 0.05	/	/	/	/	/
XD-Su4	Pyrite	-0.91 ± 0.05	-1.36 ± 0.06	-2.12 ± 0.13	-1.19 ± 0.07	-3.90 ± 0.29	-0.09 ± 0.007	0.06 ± 0.10
	Magnetite	0.79 ± 0.07	1.12 ± 0.08	/	/	/	/	/

Notes: “/” means data not analyzed, Si and Su are short for silicate-facies and sulfide-bearing BIFs, respectively.