

Table S2. Results of isotopic homogeneity testing of the Tianyu-Py pyrite

Grain NO.	$^{56}\text{Fe}/^{54}\text{Fe}$			$^{57}\text{Fe}/^{54}\text{Fe}$		
	$X_1$	$X_2$	$\bar{X}$	$X_1$	$X_2$	$\bar{X}$
1	16.434944	16.432831	16.4338876	0.38806	0.38795	0.3880041
5	16.438500	16.434562	16.4365308	0.38817	0.38807	0.3881184
11	16.432871	16.436534	16.4347026	0.38798	0.38808	0.3880322
15	16.434471	16.433158	16.4338143	0.38808	0.38802	0.3880502
21	16.436151	16.436898	16.4365247	0.38807	0.38815	0.3881058
25	16.437181	16.436283	16.4367320	0.38814	0.38805	0.3880972
31	16.436227	16.437380	16.4368033	0.38817	0.38818	0.3881770
35	16.438018	16.438128	16.4380731	0.38821	0.38816	0.3881870
41	16.436421	16.441494	16.4389572	0.38811	0.38825	0.3881816
45	16.438997	16.439575	16.4392857	0.38818	0.38823	0.3882068
51	16.439853	16.439457	16.4396551	0.38823	0.38824	0.3882342
55	16.439042	16.439241	16.4391415	0.38824	0.38817	0.3882057
61	16.442520	16.440252	16.4413862	0.38837	0.38822	0.3882970
65	16.437640	16.441484	16.4395617	0.38820	0.38824	0.3882178
71	16.440108	16.432831	16.4364695	0.38830	0.38801	0.3881546