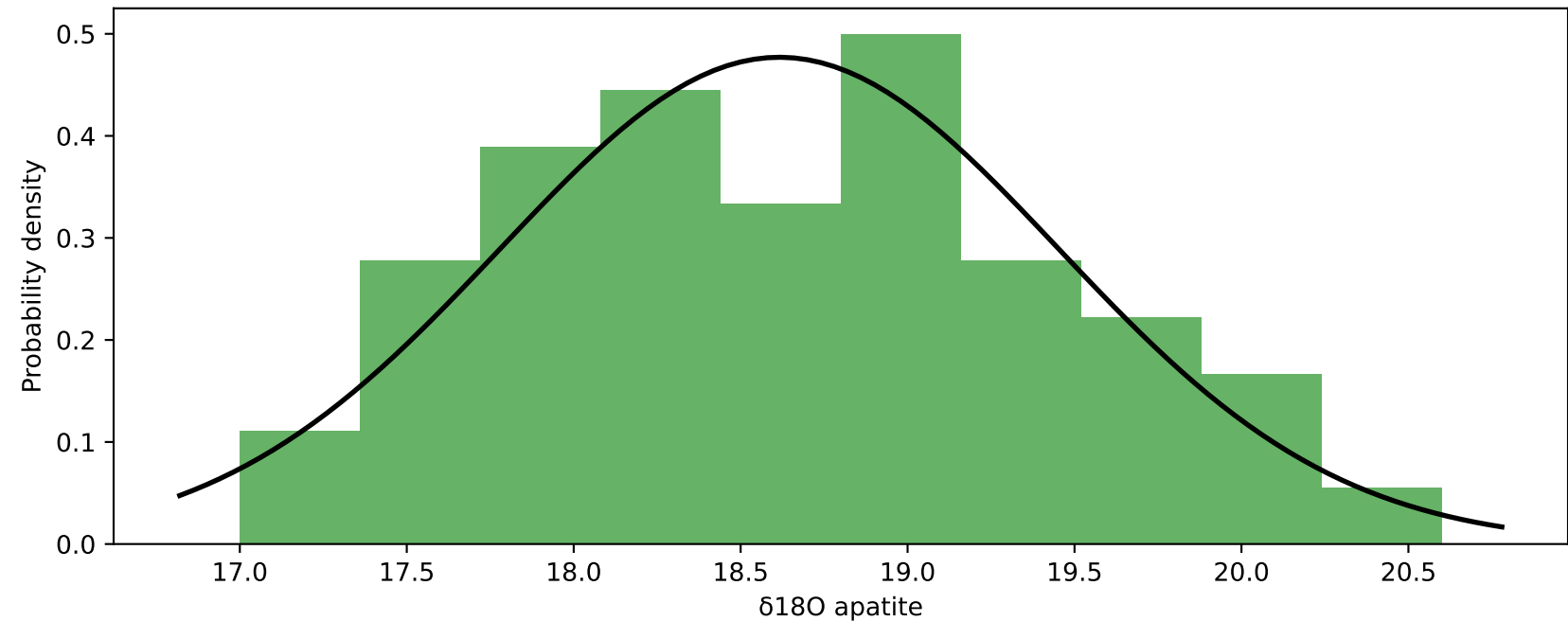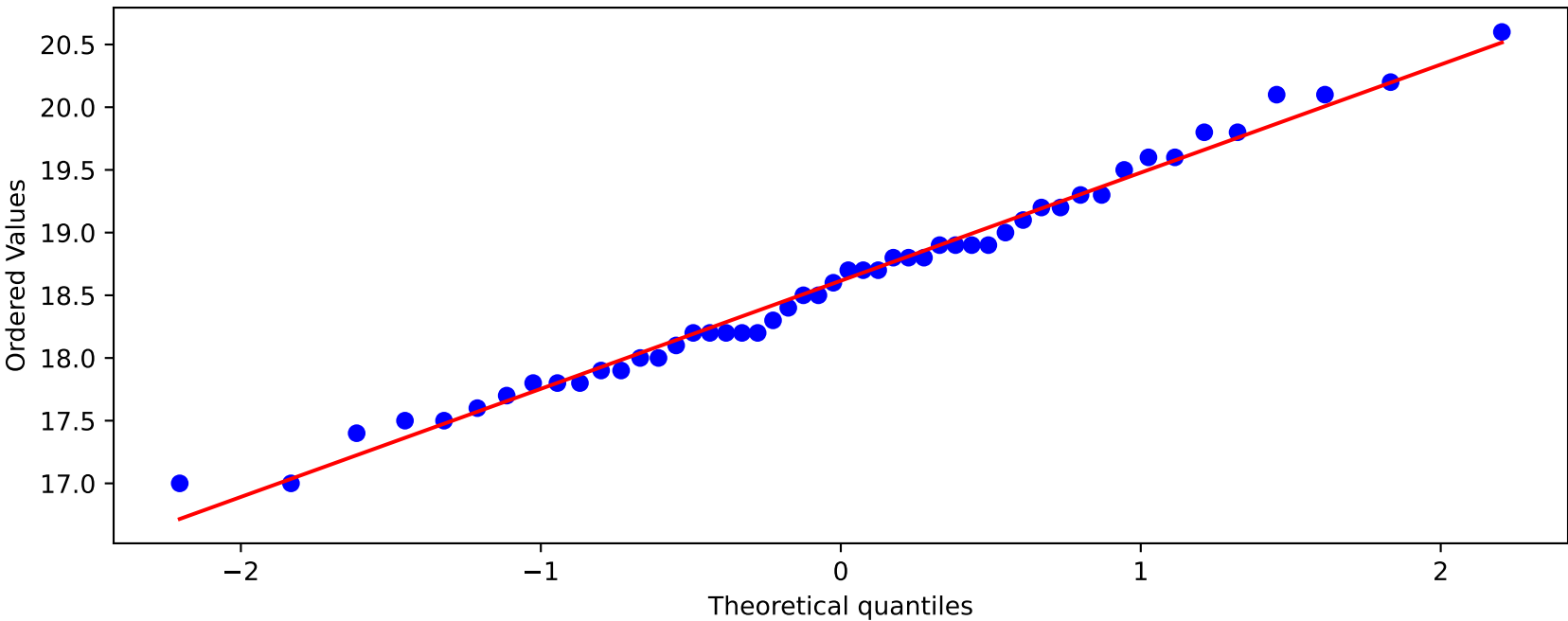### δO18 apatite Fitted to Normal lax (mu = 18.62, std = 0.84)

Probability Plot of the samples

SUMMARY

 BASIC STATISTICS
Number of samples: 50 Mean: 18.616 Variance: 0.714
Skew: 0.251 test statistics z-score: 0.800 p-value: 0.423
        H0 (skew from a normal distrib.) cannot be rejected
        The data are moderately skewed !
Kurtosis -0.531 test: z-score: 0.595 p-value: 0.423
        H0 (normal distrib.) cannot be rejected
        The distribution is moderately flat !!

 NORMALITY TESTS
   Shapiro-Wilk   statistics: 0.984 p-value: 0.732 H0 (normal distrib.) cannot be rejected
   Anderson-Darling   statistics: 0.237 critical value α: 0.736 H0 (normal distrib.) cannot be rejected
        Convergence of the tests: Normal distributed population on this basis

 RISK ESTIMATION (Monte-Carlo diagenesis in-silico 280000 iterations), sample count: 50

 Mean and Std.Dev. estimated by the bootstrap method
 There is a 11.631+/-0.086 % risk of normality of δ18O data by chance for a 50 sample count.

 Computed with ApaOxIRA C. Lécuyer & JP. Flandrois 2023