Details statistical tests mentioned in the article

#	Text (factors in bold)	Normality?	Which test	p-value	Remarks
1	**Laboratory experiments** yield significantly higher concentrations in both topsoils and subsoils **than other methods**	No	Mann-Whitney U	Top; 1.01e-07 Sub; 2.082e-05	
2	In subsoils, **piezometer-based concentrations** are much higher than **for other sampling methods**	No	Mann-Whitney U	9.234e-12	Excluded lab incubations
3	found different concentrations between **zero-tension and tension lysimeters** (Sparling et al., 2016), we did not observe this in neither **top- or subsoil** data.	Top; possibly/ yes Sub; no	Top; Mann-Whitney U & T-test Sub; Mann-Whitney U	Top; 0.1813 (MW-U), 0.138 (T) Sub; 0.1772	For top, t-test might be acceptable
4	Values for **Histosols do not differ significantly compared to all topsoil data**, so can be included in a further topsoil data analysis.	No	Mann-Whitney U	0.2237	Excluded lab incubations ; Tested for 'Peat' vs 'others', like in figure 6.
5	Topsoils; **Also, oceanic climates** have higher values than **the three tropical climates**.	No	Mann-Whitney U	2.763e-05	Excluded lab incubations
6	Topsoils; Where some studies identified different DOC concentrations between **coniferous and deciduous forests** (Currie et al., 1996; Fernández-Sanjurjo et al., 1997), this was not observed at the global scale, despite the large number of data entries	possibly/ yes	Mann-Whitney U & T-test	Top; 0.2084 (MW-U), 0.2096 (T)	Excluded lab incubations ; t-test might be acceptable (though irrelevant as both >>0.05)