Differences between Kj-N and combustion-N

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> Kj-N: Sample + H₂SO₄ + cat. Then FIA with diffusion

> Combustion-N: High temp. (950 °C, Elementar vario EL)

> Exp. that combustion should give higher N than Kj-N
> Results: Kj-N gave between 3.5-24% higher results

> Test done some years ago gave accurate results.

> What have we done this time that is different from before?
> Control samples: Kj-N test since 1995 to test the FIA system and its calibration, within limits.
> CRM: NIST-tomato leaves certified value 3,03 % N±0,15, within limits.
> In-house test, pine needles, tested OK
> What next?
> Rerun com-N and Kj-N to verify the results
> Are the samples not homogeneous enough for the com-N?
> Com-N uses 10 mg/Kj-N 100 mg
> Test on the older interlaboratory tests and on previous samples.
> Or do you have any other ideas?
> A problem is the limited amount of sample