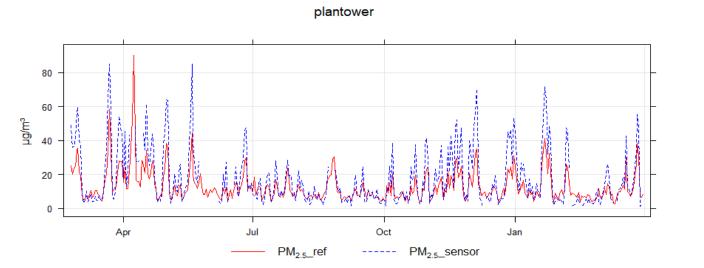
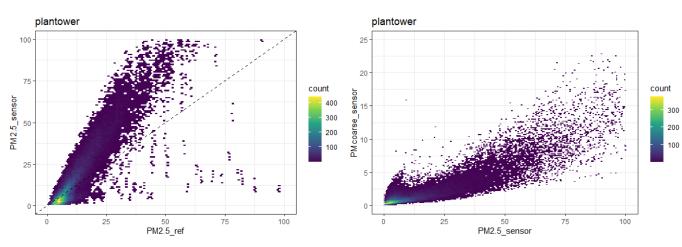


Plantower PMS7003





Validation and data availability

3 good units, 2 with some signal issues Availability between 64% and 93%

$\begin{array}{ll} PM_{2.5} \mbox{ comparison with automatic reference} \\ mean bias: +5.1 \ \mu g/m^3 & R^2: 0.82 \end{array}$

PM₁₀ and PM_{coarse} performance Appears to mostly estimate PM_{coarse} from PM_{2.5} hence no PM₁₀ sensor

 $\begin{array}{c} \text{PM}_{\text{2.5}} \text{ between-sensor uncertainty} \\ \text{2.7 } \mu\text{g/m}^3 \text{ or } \textbf{15\%} \end{array}$

Effect of relative humidity (PM_{2.5}) sensor/ref x 1.7 (from 50% to 90% RH)

EU expanded uncertainty vs gravimetric ref. (PM_{2.5}) 197% without calibration 16% after local calibration

FIELD TEST FACT SHEET Setup and definitions see: <u>Vaquums test protocol</u> - Full test report see: <u>Vaquums PM fieldtest report</u>