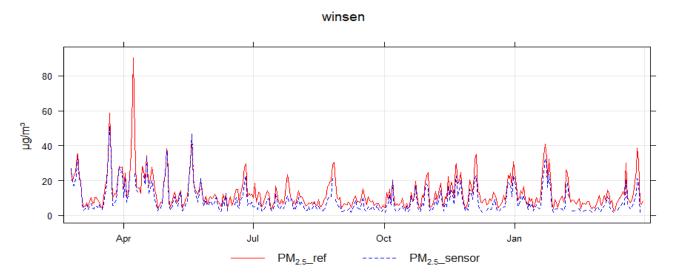
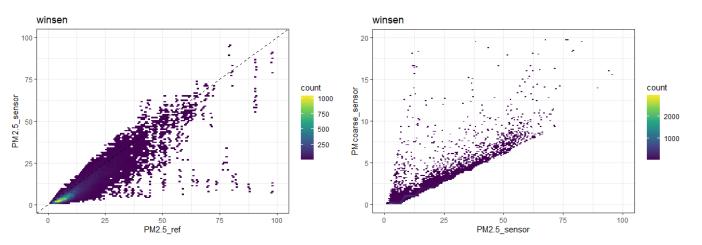


## Winsen ZH03B





## Validation and data availability

2 good units, 3 with some signal issues Availability between 61% and 92%

## $PM_{2.5}$ comparison with automatic reference mean bias: -3.8 µg/m<sup>3</sup> R<sup>2</sup> : 0.82

PM<sub>10</sub> and PM<sub>coarse</sub> performance Appears to calculate PM<sub>coarse</sub> from PM<sub>2.5</sub> hence no PM<sub>10</sub> sensor

 $PM_{2.5}$  between-sensor uncertainty 1.5 µg/m<sup>3</sup> or 16%

Effect of relative humidity (PM<sub>2.5</sub>) sensor/ref x 1.6 (from 50% to 90% RH)

**EU expanded uncertainty vs gravimetric ref. (PM<sub>2.5</sub>) 42% without calibration** 15% 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>