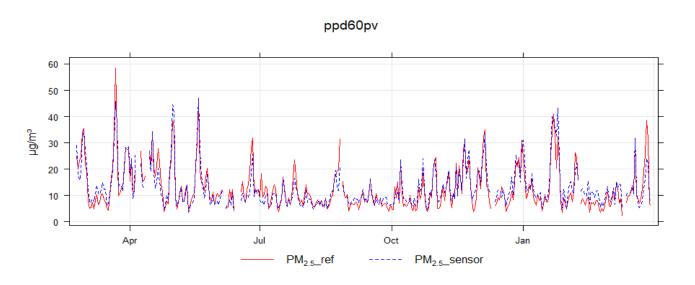
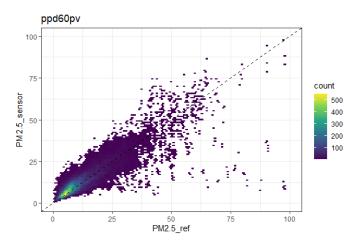


Shinyei PPD60PV





Validation and data availability

3 good units, 2 with issues availability between 43% and 95% sensors does not report μg/m³ requires (non-linear) calibration

PM_{2.5} comparison with automatic reference

mean bias: $+0.6 \mu g/m^3$ R²: 0.75

PM₁₀ and PM_{coarse} performance only PM_{2.5} sensor

PM_{2.5} between sensor uncertainty

1.8 μ g/m³ or **14%**

Effect of relative humidity (PM_{2.5})

sensor/ref x 1.4 (from 50% to 90% RH)

EU expanded uncertainty vs gravimetric ref. (PM_{2.5})

25% without calibration 21% after local calibration