

Institution	Instrument	Parameters	References
Berlin Senate	Leckel GmbH SEQ47/50 (x1)	PM ₁₀	DIN EN 16450:2015-10; Beuth (2015)
	Horiba APNA-370 Air Pollution Monitor	NO _x , NO (measured directly); NO ₂ (inferred)	DIN EN 14211:2005; Verbraucherschutz (2010)
	Horiba APOA-370 Air Pollution Monitor	O ₃	DIN EN 14625:2005; Verbraucherschutz (2010)
	Horiba APMA-370 Air Pollution Monitor	CO	DIN EN 14626:2005; Verbraucherschutz (2010)
	AMA Instruments GC5000 BTX	Benzene, toluene	DIN EN 14662:2005; Verbraucherschutz (2010)
KIT	Vaisala CL51 Ceilometer	Mixing layer height	Emeis et al. (2007); Münkler et al. (2007); Wiegner et al. (2014)
UBA	GRIMM 1.108	Particle number and size distribution (350–22 500 nm), 15 size bins	Görner et al. (2012)
	GRIMM 5.403	Particle number and size distribution (10–1100 nm), 44 size bins	Heim et al. (2004)
	GRIMM 5.416	Total particle number (4–3000 nm)	Helsper et al. (2008); Wiedensohler et al. (2017)
	NSAM	Particle surface area (10–1000 nm)	Kaminski et al. (2013); VDI (2017)
IASS	PTR-MS	NMVOCs (for a complete list of m/z see Table S1)	Bourtsoukidis et al. (2014)
FZJ	Canister samples	NMVOCs (for a list of compounds, see Table 8 in Bonn et al. (2016), or for the 57 compounds included in this analysis the Supplement)	Urban (2010); Ehlers et al. (2016)
	Filter sampling/analysis	PM ₁₀ , mass, EC, OC	Kofahl (2012); Ehlers (2013)
FMI Helsinki	Cartridge samples	Biogenic NMVOCs	Mäki et al. (2017)
UW Madison	Filter analysis	WSOC, WIOC, ions, organic tracers	Yang et al. (2003); Wang et al. (2005); Miyazaki et al. (2011); Villalobos et al. (2015)