

Table S1. Fifteen monitoring stations in different cities (from UK Air Defra dataset website¹) shown in Figure 1 and coordinates.

City	UK Air ID	EU Site ID	Site Name	Environment Type	Latitude	Longitude	Altitude (m)
London	UKA00238	GB0608A	London Bexley	Background Suburban	51.46603	0.184806	13
London	UKA00315	GB0682A	London Marylebone Road	Traffic Urban	51.52253	-0.15461	35
Birmingham	UKA00626	GB1067A	Birmingham A4540 Roadside	Traffic Urban	52.47609	-1.87502	109
Liverpool	UKA00247	GB0777A	Liverpool Speke	Industrial Urban	53.34633	-2.84433	26
Bristol	UKA00494	GB0884A	Bristol St Paul's	Background Urban	51.46284	-2.58448	15
Chesterfield	UKA00604	GB1046A	Chesterfield Loundsley Green	Background Urban	53.24413	-1.45495	98
Manchester	UKA00248	GB0613A	Manchester Piccadilly	Background Urban	53.48152	-2.23788	57
Leeds	UKA00527	GB0926A	Leeds Centre	Background Urban	53.81997	-1.57636	85
Newcastle	UKA00213	GB0568A	Newcastle Centre	Background Urban	54.97825	-1.61053	45
Norwich	UKA00549	GB0995A	Norwich Lakenfields	Background Urban	52.61419	1.301976	36
Preston	UKA00408	GB0731A	Preston	Background Urban	53.76559	-2.68035	40
Nottingham	UKA00274	GB0646A	Nottingham Centre	Background Urban	52.95473	-1.14645	41
Oxford	UKA00518	GB0920A	Oxford St Ebbes	Background Urban	51.74481	-1.26028	58
Southampton	UKA00235	GB0598A	Southampton Centre	Background Urban	50.90814	-1.39578	7
Plymouth	UKA00360	GB0687A	Plymouth Centre	Background Urban	50.37167	-4.14236	18

Table S2. Time-split of the meteorological seasons during the studied period.

¹ <https://uk-air.defra.gov.uk/data/openair>

Season	Period
Spring	1 st March 2017 to 31 st May 2017
Summer	1 st June 2017 to 31 st August 2017
Autumn	1 st September 2017 to 30 th November 2017
Winter	1 st December 2017 to 28 th February 2018