

**Table S5:** Summary of the 34 – month campaign, seasonal mean and range for PM<sub>2.5</sub> levels (µg/m<sup>3</sup>) when including the adjusted Ni in the PMF model, as measured at the School of Health Systems and Public Health, University of Pretoria from 18 April 2017 to 28 February 2020

	Full Study (350 observations)		Autumn (77 observations)		Winter (91 observations)		Spring (92 observations)		Summer (90 observations)		Kruskal- Wallis <i>p</i>
	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	
PM <sub>2.5</sub> (Observed)	23.0	0.7-138	22.4	5.17-48.5	24.8	7.04-57.9	22.7	0.7-66.8	21.4	1.35-47.9	<i>p</i> <0.001
Biomass burning Resuspended dust matrix	1.1	0-16	0.97	0-7.4	2.5	0-16	0.6	0-4.5	0.23	0-2.4	<i>p</i> <0.001
Industry	2.1	0-19	2.2	0-10	3.2	0-19	2.0	0-13	1.1	0-3.9	<i>p</i> <0.001
Vehicular	11.0	0-44	7.6	0-37	21	0-44	10	0-33	3.2	0-12	<i>p</i> <0.001
Mining	1.7	0-30	1.9	0-19	3.9	0-30	0.8	0-11	0.3	0-2.2	<i>p</i> <0.001
Exhaust	1.7	0-24	1.8	0-22	1.6	0-14	1.4	0-9.4	1.8	0-24	<b><i>p</i>&gt;0.001*</b>
	2.2	0-25	2.9	0-25	1.8	0-21	1.6	0-23	2.8	0-18	<i>p</i> <0.001

\* not seasonal, more ubiquitous presence throughout the year.