

Table S1. Comparison of PM mass fractions of selected components in the current study with the previous measurements in the literature at each location site.

Study	PM Mass fraction ($\mu\text{g}/\text{mg PM}$)											
	EC	OC	NO_3^-	SO_4^{2-}	NH_4^+	Ca	Al	Fe	Zn	Ba	Cu	Pb
Athens, Greece												
Current study	13.36	241.64	3.93	264.17	69.57	44.54	18.53	18.76	1.35	0.45	0.28	0.26
Taghvaei et al. (2019)	39.98	184.80	1.89	69.94	--	14.22	9.71	11.45	1.32	3.50	1.16	0.77
Diapouli et al. (2017)	38.81	211.59	35.34	247.50	47.62	67.29	9.48	21.34	2.91	0.38	0.62	0.48
Amato et al. (2016)	29.45	247.57	15.72	262.47	85.70	15.90	8.18	10.18	0.90	0.63	0.20	0.25
Beirut, Lebanon												
Current study	10.04	90.27	0.94	93.41	31.89	58.09	13.48	8.54	4.21	0.54	0.80	0.21
Borgie et al. (2016)	--	--	79.07	209.00	43.95	57.29	13.05	15.59	1.15	1.09	1.31	0.20
Los Angeles, USA												
Current study	23.05	241.12	179.15	56.41	46.83	19.02	7.73	7.33	0.45	0.48	0.26	0.06
Shirmohammadi et al. (2017)	30.00	230.00	--	--	--	4.09	3.85	10.41	0.45	0.59	0.58	0.05
Habre et al. (2021)	59.84	190.76	53.53	--	24.80	3.80	3.56	5.88	0.44	0.38	0.26	0.10
Milan, Italy												
Current study	28.05	217.76	224.75	40.29	91.05	10.75	5.42	5.97	0.62	0.21	0.24	0.29
Amato et al. (2016)	59.21	216.50	188.36	64.19	73.05	7.87	4.95	10.52	1.87	1.74	1.87	0.17
Riyadh, Saudi Arabia												
Current study - dust events	6.71	34.62	20.73	37.37	2.67	134.40	58.54	39.45	0.22	0.43	0.08	0.05
Current study - non-dust event	23.00	76.55	40.45	77.97	8.33	160.76	40.05	28.17	2.16	0.54	0.22	0.19
Alharbi et al. (2015)	--	--	16.32	33.29	13.79	133.66	24.24	21.99	0.31	0.48	0.35	0.02

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