Development of Air Pollution Source Profiles – Stationary Sources Volume 2

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Final Report

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Air Pollution Source Profiles for Stationary Sources

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Source Name	Aggregate Dust
Source Code	6004

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0017	0.0012		
Al	0.0479	0.0034		
As	0.0001	0.0010		
Ba	0.0124	0.0009		
Ca	0.8803	0.0624		
Cd	0.0010	0.0001		
Ce	0.0037	0.0026		
Co	0.0008	0.0003		
Cr	0.0040	0.0004		
Cu	0.0120	0.0009		
Fe	3.7681	0.2666		
Ga	0.0008	0.0019		
Hf	0.0011	0.0008		
Hg	0.0071	0.0007		
In	0.0332	0.0042		
K	0.1494	0.0182		
Lu	0.0000	0.0000		
Mg	0.7948	0.0563		
Mn	0.0505	0.0036		
Mo	0.0004	0.0003		
Na	0.5918	0.0428		
Ni	0.0061	0.0022		
P	0.0124	0.0022		
Pb	0.0072	0.0022		
Pd	0.0069	0.0014		
Sb	0.0030	0.0011		
Sc	0.0005	0.0001		
Se	0.0038	0.0011		
Si	0.0570	0.0045		
Sm	0.0017	0.0012		
Sn	0.4186	0.0300		
Sr	0.0098	0.0007		
Th	0.0006	0.0004		
Ti	0.2468	0.0175		

Source Name	Aggregate Dust
Source Code	6004

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0008	0.0006		
W	0.0023	0.0017		
Y	0.0014	0.0002		
Zn	0.0454	0.0032		
Zr	0.0030	0.0003		
ANIONS				
F	0.0427	0.0034		
Cl	0.0928	0.0187		
NO2	0.0012	0.0001		
Br	0.0023	0.0016		
NO3	0.0088	0.0034		
PO4	0.0040	0.0016		
SO4	0.1681	0.0133		
CATIONS				
Na	0.1518	0.0404		
NH4	0.0042	0.0138		
K	0.0022	0.0245		
Ca	1.1567	0.1190		
Mg	0.0187	0.0134		
Organic Carbon				
OC1	0.0464	0.0021		
OC2	0.1654	0.0076		
OC3	0.3675	0.0170		
OC4	0.1538	0.0071		
OP	0.0000	0.0000		
Total OC	0.7331	0.0338		
Elemental Carbon				
EC1	0.1209	0.0056		
EC2	0.0387	0.0018		
EC3	0.0242	0.0011		
Total EC	0.1838	0.0085		
Total Carbon	0.9168	0.0423		
Identified percentage of total mass	9.7586	0.8348		

Source Name	Aggregate Dust
Source Code	6004

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Markers				
n- Hentriacontane	0.0018	0.0002		
n-Tritriacontane	0.0018	0.0002		
n- Pentatriacontane	0.0018	0.0002		
Hexadecanamide	0.0018	0.0002		
Octadecanamide	0.0018	0.0002		
Benzo[b]fluoranthene	0.0018	0.0002		
Benzo[k]fluoranthene	0.0018	0.0002		
Benzo[e]pyrene	0.0018	0.0002		
Indeno[1,2,3-cd]fluoranthene	0.0018	0.0002		
Indeno[1,2,3-cd]pyrene	0.0018	0.0002		
Picene	0.0018	0.0002		
Coronene	0.0018	0.0002		

Source Name	Agricultural Waste Burning
Source Code	15

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0054	0.0061		
Al	0.0033	0.0005		
As	0.0166	0.0061		
Ba	0.0002	0.0002		
Ca	0.0018	0.0013		
Cd	0.0005	0.0003		
Ce	0.0190	0.0137		
Co	0.0021	0.0015		
Cr	0.0045	0.0008		
Cu	0.0115	0.0013		
Fe	0.0018	0.0013		
Ga	0.0145	0.0104		
Hf	0.0056	0.0040		
Hg	0.0021	0.0015		
In	0.0171	0.0123		
K	1.1783	0.1218		
Lu	0.0002	0.0002		
Mg	0.0160	0.0020		
Mn	0.0006	0.0002		
Mo	0.0030	0.0017		
Na	0.0101	0.0073		
Ni	0.0083	0.0102		
P	0.0116	0.0083		
Pb	0.1962	0.0217		
Pd	0.0079	0.0055		
Sb	0.0077	0.0055		
Sc	0.0004	0.0003		
Se	0.0228	0.0060		
Si	0.1066	0.0099		
Sm	0.0088	0.0063		
Sn	0.0321	0.0045		

Source Name	Agricultural Waste Burning
Source Code	15

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Sr	0.0001	0.0001		
Th	0.0078	0.0023		
Ti	0.0005	0.0004		
V	0.0025	0.0028		
W	0.0122	0.0087		
Y	0.0008	0.0004		
Zn	0.0004	0.0003		
Zr	0.0054	0.0009		
ANIONS				
F	0.1798	0.0142		
Cl	2.6569	0.2268		
NO2	0.0168	0.0012		
Br	0.0217	0.0069		
NO3	0.0217	0.0123		
PO4	0.0079	0.0057		
SO4	0.6280	0.0497		
CATIONS				
Na	0.3276	0.1375		
NH4	0.2319	0.0636		
K	2.6111	0.2580		
Ca	0.1347	0.1801		
Mg	0.0700	0.0503		
Organic Carbon				
OC1	22.9007	1.1450		
OC2	15.2051	0.7603		
OC3	10.0999	0.5050		
OC4	3.0107	0.1505		
OP	5.5351	0.2768		
Total OC	56.7515	2.8376		
Elemental Carbon				
EC1	2.3864	0.1193		
EC2	0.3065	0.0153		

Source Name	Agricultural Waste Burning
Source Code	15

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
EC3	0.1501	0.0075		
Total EC	2.8430	0.1422		
Total Carbon	59.5945	2.9797		
Identified percentage of total mass	68.2492	4.2745		
Molecular Marker				
n- Hentriacontane	0.2441	0.0244		
n-Tritriacontane	0.0112	0.0011		
n- Pentatriacontane	0.0112	0.0011		
Hexadecanamide	0.0112	0.0011		
Octadecanamide	0.0112	0.0011		
Benzo[b]fluoranthene	0.0112	0.0011		
Benzo[k]fluoranthene	0.0112	0.0011		
Benzo[e]pyrene	0.0112	0.0011		
Indeno[1,2,3-cd]fluoranthene	0.0112	0.0011		
Indeno[1,2,3-cd]pyrene	0.0112	0.0011		
Picene	0.0112	0.0011		
Coronene	0.0112	0.0011		

Source Name	Asphalt paving and other operations
Source Code	24

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Elements				
Ag	0.0169	0.0381		
Al	0.0599	0.0055		
As	0.0165	0.0346		
Ba	0.1818	0.0136		
Ca	11.1381	0.7932		
Cd	0.0251	0.0037		
Ce	0.1227	0.0881		
Co	0.0137	0.0098		
Cr	0.0340	0.0053		
Cu	0.0178	0.0048		
Fe	5.5657	0.3991		
Ga	0.0660	0.0657		
Hf	0.0362	0.0260		
Hg	0.0138	0.0099		
In	0.7114	0.1148		
K	3.5465	0.5149		
Lu	0.0014	0.0010		
Mg	0.1793	0.0176		
Mn	0.0428	0.0041		
Mo	0.0151	0.0108		
Na	2.2974	0.1958		
Ni	0.0336	0.0646		
P	0.0750	0.0538		
Pb	0.1726	0.0705		
Pd	0.0494	0.0355		
Sb	0.0494	0.0355		
Sc	0.0023	0.0016		
Se	0.0213	0.0314		
Si	0.9957	0.0852		
Sm	0.0567	0.0407		
Sn	1.5762	0.1238		
Sr	0.0146	0.0013		
Th	0.0124	0.0124		
Ti	0.0583	0.0060		

Source Name	Asphalt paving and other operations
Source Code	24

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0260	0.0187		
W	0.0786	0.0564		
Y	0.0037	0.0026		
Zn	1.0983	0.0789		
Zr	0.0083	0.0045		
ANIONS				
F	0.0084	0.0060		
Cl	0.4881	0.1680		
NO2	0.0470	0.0012		
Br	0.0240	0.0172		
NO3	0.0600	0.0344		
PO4	0.0221	0.0159		
SO4	0.9064	0.0793		
CATIONS				
Na	0.2324	0.3479		
NH4	0.1854	0.1520		
K	0.5823	0.2865		
Ca	7.1083	0.9122		
Mg	0.1960	0.1408		
Organic Carbon				
OC1	23.0771	1.1539		
OC2	14.8272	0.7414		
OC3	11.1322	0.5566		
OC4	5.2731	0.2637		
OP	2.7783	0.1389		
Total OC	57.0879	2.8544		
Elemental Carbon				
EC1	5.1314	0.2566		
EC2	0.1607	0.0080		
EC3	0.1890	0.0095		
Total EC	5.4810	0.2741		
Total Carbon	62.5690	3.1284		
Identified percentage of total mass	100.8636	8.3702		

Source Name	Asphalt paving and other operations
Source Code	24

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Marker				
n- Hentriacontane	0.0081	0.0008		
n-Tritriacontane	0.0081	0.0008		
n- Pentatriacontane	0.0081	0.0008		
Hexadecanamide	0.0081	0.0008		
Octadecanamide	0.0081	0.0008		
Benzo[b]fluoranthene	0.0081	0.0008		
Benzo[k]fluoranthene	0.0081	0.0008		
Benzo[e]pyrene	0.0081	0.0008		
Indeno[1,2,3-cd]fluoranthene	0.0081	0.0008		
Indeno[1,2,3-cd]pyrene	0.0081	0.0008		
Picene	0.0081	0.0008		
Coronene	0.0081	0.0008		

Source Name	Bagasse Combustion
Source Code	5

Profile	PM10
Location	Laboratory
Controls	Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0133	0.0130		
Al	0.0106	0.0246		
As	0.0077	0.0119		
Ba	0.0479	0.0105		
Ca	0.1770	0.3902		
Cd	0.0198	0.0020		
Ce	0.0407	0.0292		
Co	0.0045	0.0032		
Cr	0.0156	0.0037		
Cu	0.0138	0.0032		
Fe	0.2541	1.5352		
Ga	0.0310	0.0220		
Hf	0.0120	0.0086		
Hg	0.0036	0.0053		
In	0.2047	0.0410		
K	6.6545	0.8417		
Lu	0.0005	0.0003		
Mg	0.0608	0.3948		
Mn	0.0043	0.0233		
Mo	0.0030	0.0035		
Na	0.7483	0.0544		
Ni	0.0313	0.0227		
P	0.0249	0.0296		
Pb	1.8097	0.1125		
Pd	0.0190	0.0129		
Sb	0.0272	0.0137		
Sc	0.0004	0.0007		

Source Name	Bagasse Combustion
Source Code	5

Profile	PM10
Location	Laboratory
Controls	Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0119	0.0105		
Si	0.5502	0.0629		
Sm	0.0188	0.0135		
Sn	4.4358	0.3490		
Sr	0.0009	0.0019		
Th	0.0121	0.0047		
Ti	0.0125	0.0499		
V	0.0086	0.0061		
W	0.0261	0.0187		
Y	0.0012	0.0012		
Zn	0.3102	0.0258		
Zr	0.0014	0.0014		
ANIONS				
F	0.1181	0.0118		
Cl	8.8724	0.7079		
NO2	0.0661	0.0047		
Br	0.0450	0.0146		
NO3	1.0817	0.0951		
PO4	0.0168	0.0121		
SO4	1.2095	0.0968		
CATIONS				
Na	0.3832	0.2753		
NH4	0.9948	0.1661		
K	8.8322	0.7744		
Ca	0.5580	0.3974		
Mg	0.1489	0.1070		
Organic Carbon				
OC1	7.1904	0.3595		

Source Name	Bagasse Combustion
Source Code	5

Profile	PM10
Location	Laboratory
Controls	Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	6.5633	0.3282		
OC3	6.0005	0.3000		
OC4	6.6967	0.3348		
OP	11.2475	0.5624		
Total OC	37.6984	1.8849		
Elemental Carbon				
EC1	25.3030	1.2651		
EC2	0.5354	0.0268		
EC3	0.1714	0.0086		
Total EC	26.0098	1.3005		
Total Carbon	63.7082	3.1854		
Identified percentage of total mass	101.6649	10.0078		

Molecular Marker				
n- Hentriacontane	0.1235	0.0123		
n-Tritriacontane	0.1235	0.0123		
n- Pentatriacontane	0.1235	0.0123		
Hexadecanamide	0.1235	0.0123		
Octadecanamide	0.1235	0.0123		
Benzo[b]fluoranthene	0.6106	0.0611		
Benzo[k]fluoranthene	0.5022	0.0502		
Benzo[e]pyrene	0.6481	0.0648		
Indeno[1,2,3-cd]fluoranthene	1.0817	0.1082		
Indeno[1,2,3-cd]pyrene	1.0170	0.1017		
Picene	5.7434	0.5743		
Coronene	0.1235	0.0123		

Source Name	Bricks and Related Clay Products
Source Code	40

Profile PM10
Location Kanpur
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0314	0.0226		
Al	0.0303	0.0029		
As	0.0793	0.0233		
Ba	0.0071	0.0010		
Ca	0.5447	0.0425		
Cd	0.0570	0.0051		
Ce	0.2419	0.0603		
Co	0.0087	0.0056		
Cr	0.0159	0.0029		
Cu	0.0876	0.0079		
Fe	1.0448	0.0770		
Ga	0.0476	0.0376		
Hf	0.0934	0.0195		
Hg	0.0077	0.0056		
In	0.1103	0.0475		
K	0.2749	0.1866		
Lu	0.0009	0.0006		
Mg	0.1179	0.0115		
Mn	0.0145	0.0017		
Mo	0.0188	0.0067		
Na	0.9966	0.0928		
Ni	0.0296	0.0369		
P	0.0421	0.0303		
Pb	9.0713	0.6671		
Pd	0.0510	0.0212		
Sb	0.0454	0.0210		
Sc	0.0015	0.0009		

Source Name	Bricks and Related Clay Products
Source Code	40

Profile PM10
Location Kanpur
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0164	0.0179		
Si	0.3902	0.0361		
Sm	0.0319	0.0229		
Sn	0.6293	0.0518		
Sr	0.0018	0.0003		
Th	0.0232	0.0080		
Ti	0.1233	0.0099		
V	0.0792	0.0146		
W	0.0869	0.0343		
Y	0.0024	0.0015		
Zn	0.0891	0.0072		
Zr	0.0121	0.0030		
ANIONS				
F	0.0649	0.0128		
Cl	1.9019	0.3475		
NO2	0.0751	0.0053		
Br	0.0616	0.0293		
NO3	1.5046	0.1515		
PO4	0.0360	0.0259		
SO4	2.3246	0.1894		
CATIONS				
Na	0.8224	0.5908		
NH4	0.7405	0.2752		
K	0.4269	0.4393		
Ca	1.3686	0.8618		
Mg	0.3741	0.2326		
Organic Carbon				
OC1	1.2410	0.0620		

Source Name	Bricks and Related Clay Products
Source Code	40

Profile **PM10**
Location **Kanpur**
Control **Uncontrolled**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	2.5070	0.1253		
OC3	3.8255	0.1913		
OC4	7.3425	0.3671		
OP	12.6173	0.6309		
Total OC	27.5333	1.3767		
Elemental Carbon				
EC1	49.4754	2.4738		
EC2	1.6207	0.0810		
EC3	0.8264	0.0413		
Total EC	51.9225	2.5961		
Total Carbon	79.4558	3.9728		
Identified percentage of total mass	103.7149	8.7803		
Molecular Marker				
n- Hentriacontane	0.0193	0.0019		
n-Tritriacontane	0.0193	0.0019		
n- Pentatriacontane	0.0193	0.0019		
Hexadecanamide	0.0193	0.0019		
Octadecanamide	0.0193	0.0019		
Benzo[b]fluoranthene	0.0194	0.0019		
Benzo[k]fluoranthene	0.0193	0.0019		
Benzo[e]pyrene	0.0193	0.0019		
Indeno[1,2,3-cd]fluoranthene	0.0193	0.0019		
Indeno[1,2,3-cd]pyrene	0.0193	0.0019		
Picene	1.3130	0.1313		
Coronene	0.0193	0.0019		

Source Name	Cement
Source Code	6002

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0002	0.0007		
Al	0.0465	0.0033		
As	0.0010	0.0007		
Ba	0.0171	0.0012		
Ca	0.2158	0.0154		
Cd	0.0009	0.0001		
Ce	0.0004	0.0016		
Co	0.0003	0.0002		
Cr	0.0097	0.0007		
Cu	0.0044	0.0004		
Fe	2.3166	0.1639		
Ga	0.0007	0.0013		
Hf	0.0007	0.0005		
Hg	0.0041	0.0004		
In	0.0296	0.0033		
K	0.3821	0.0315		
Lu	0.0000	0.0000		
Mg	0.5508	0.0390		
Mn	0.0484	0.0034		
Mo	0.0003	0.0002		
Na	0.2426	0.0178		
Ni	0.0028	0.0014		
P	0.0282	0.0028		
Pb	0.0111	0.0018		
Pd	0.0043	0.0009		
Sb	0.0010	0.0007		
Sc	0.0007	0.0001		
Se	0.0002	0.0006		
Si	0.0945	0.0070		
Sm	0.0002	0.0007		
Sn	0.2556	0.0183		
Sr	0.0851	0.0060		
Th	0.0004	0.0003		
Ti	0.1600	0.0113		

Source Name	Cement
Source Code	6002

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0006	0.0004		
W	0.0015	0.0011		
Y	0.0012	0.0001		
Zn	0.0409	0.0029		
Zr	0.0035	0.0003		
ANIONS				
F	0.0248	0.0022		
Cl	0.2149	0.0260		
NO2	0.0009	0.0001		
Br	0.0022	0.0016		
NO3	0.0109	0.0035		
PO4	0.0020	0.0015		
SO4	3.6938	0.2625		
CATIONS				
Na	0.1963	0.0418		
NH4	0.0148	0.0138		
K	0.1951	0.0346		
Ca	5.8078	0.4432		
Mg	0.0179	0.0129		
Organic Carbon				
OC1	0.1061	0.0050		
OC2	0.1470	0.0069		
OC3	0.6039	0.0283		
OC4	0.1523	0.0071		
OP	0.0000	0.0000		
Total OC	1.0092	0.0473		
Elemental Carbon				
EC1	0.6092	0.0286		
EC2	0.1182	0.0055		
EC3	0.0205	0.0010		
Total EC	0.7478	0.0351		
Total Carbon	1.7571	0.0824		
Identified percentage of total mass	16.5025	1.2682		

Source Name	Cement
Source Code	6002

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Markers				
n- Hentriacontane	0.0015	0.0001		
n-Tritriacontane	0.0015	0.0001		
n- Pentatriacontane	0.0015	0.0001		
Hexadecanamide	0.0015	0.0001		
Octadecanamide	0.0015	0.0001		
Benzo[b]fluoranthene	0.0015	0.0001		
Benzo[k]fluoranthene	0.0015	0.0001		
Benzo[e]pyrene	0.0015	0.0001		
Indeno[1,2,3-cd]fluoranthene	0.0015	0.0001		
Indeno[1,2,3-cd]pyrene	0.0015	0.0001		
Picene	0.0015	0.0001		
Coronene	0.0015	0.0001		

Source Name	Chulah (Wood) from Chennai
Source Code	9

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0266	0.0191		
Al	0.0167	0.0020		
As	0.0496	0.0202		
Ba	0.0757	0.0064		
Ca	0.3891	0.0390		
Cd	0.0050	0.0016		
Ce	0.0583	0.0419		
Co	0.0065	0.0047		
Cr	0.0199	0.0025		
Cu	0.0719	0.0049		
Fe	1.4176	0.0652		
Ga	0.0445	0.0320		
Hf	0.0077	0.0122		
Hg	0.0065	0.0047		
In	0.3645	0.0559		
K	2.7552	0.5003		
Lu	0.0007	0.0005		
Mg	0.0840	0.0114		
Mn	0.0118	0.0014		
Mo	0.0065	0.0051		
Na	0.1057	0.0717		
Ni	0.0365	0.0314		
P	0.0356	0.0256		
Pb	0.3685	0.0701		
Pd	0.0195	0.0180		
Sb	0.0733	0.0176		
Sc	0.0008	0.0007		

Source Name	Chulah (Wood) from Chennai
Source Code	9

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0103	0.0154		
Si	0.7840	0.0885		
Sm	0.0269	0.0194		
Sn	7.2449	0.4952		
Sr	0.0018	0.0003		
Th	0.0093	0.0061		
Ti	0.0299	0.0034		
V	0.0124	0.0089		
W	0.0374	0.0268		
Y	0.0017	0.0013		
Zn	0.4941	0.0362		
Zr	0.0024	0.0021		
ANIONS				
F	0.0732	0.0111		
Cl	1.2236	0.2365		
NO2	0.5505	0.0389		
Br	0.0226	0.0200		
NO3	0.5318	0.0700		
PO4	0.0260	0.0187		
SO4	0.7913	0.0747		
CATIONS				
Na	0.2814	0.4104		
NH4	0.2516	0.1807		
K	4.1964	0.5541		
Ca	0.6888	0.6063		
Mg	0.2308	0.1658		
Organic Carbon				
OC1	13.8762	0.6938		

Source Name	Chulah (Wood) from Chennai
Source Code	9

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	11.2860	0.5643		
OC3	10.6350	0.5318		
OC4	7.1301	0.3565		
OP	9.8811	0.4941		
Total OC	52.8084	2.6404		
Elemental Carbon				
EC1	14.5303	0.7265		
EC2	0.6084	0.0304		
EC3	0.0690	0.0034		
Total EC	15.2077	0.7604		
Total Carbon	68.0160	3.4008		
Identified percentage of total mass	91.5973	7.5578		

Molecular Marker				
n- Hentriacontane	0.0224	0.0022		
n-Tritriacontane	0.0224	0.0022		
n- Pentatriacontane	0.0224	0.0022		
Hexadecanamide	0.0224	0.0022		
Octadecanamide	0.0224	0.0022		
Benzo[b]fluoranthene	0.0224	0.0022		
Benzo[k]fluoranthene	0.0224	0.0022		
Benzo[e]pyrene	0.0224	0.0022		
Indeno[1,2,3-cd]fluoranthene	0.0224	0.0022		
Indeno[1,2,3-cd]pyrene	0.0224	0.0022		
Picene	0.0224	0.0022		
Coronene	0.0224	0.0022		

Source Name	Chulha (Wood)- Kanpur
Source Code	9

Profile **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0278	0.0208		
Al	0.0106	0.0015		
As	0.1054	0.0234		
Ba	0.0015	0.0006		
Ca	0.1043	0.0111		
Cd	0.0017	0.0013		
Ce	0.0637	0.0458		
Co	0.0071	0.0051		
Cr	0.0420	0.0044		
Cu	0.0173	0.0031		
Fe	0.0561	0.0077		
Ga	0.0229	0.0336		
Hf	0.0753	0.0167		
Hg	0.0072	0.0051		
In	0.0574	0.0412		
K	0.9067	0.2100		
Lu	0.0093	0.0011		
Mg	0.0425	0.0060		
Mn	0.0024	0.0008		
Mo	0.0447	0.0078		
Na	0.2134	0.0362		
Ni	0.0223	0.0338		
P	0.0592	0.0291		
Pb	0.4709	0.0620		
Pd	0.0213	0.0182		
Sb	0.0531	0.0200		
Sc	0.0025	0.0009		

Source Name	Chulha (Wood)- Kanpur
Source Code	9

Profile **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.1246	0.0229		
Si	0.6710	0.0550		
Sm	0.0294	0.0212		
Sn	0.0399	0.0110		
Sr	0.0017	0.0003		
Th	0.0436	0.0086		
Ti	0.0018	0.0013		
V	0.0053	0.0093		
W	0.0733	0.0311		
Y	0.0019	0.0014		
Zn	0.0014	0.0010		
Zr	0.0118	0.0028		
ANIONS				
F	0.0999	0.0122		
Cl	5.1268	0.4799		
NO2	0.0443	0.0031		
Br	0.0242	0.0181		
NO3	0.2427	0.0470		
PO4	0.0233	0.0167		
SO4	0.8289	0.0749		
CATIONS				
Na	0.5091	0.3802		
NH4	0.2807	0.1646		
K	3.9856	0.5096		
Ca	0.4395	0.5328		
Mg	0.2064	0.1483		
Organic Carbon				
OC1	14.2503	0.7125		

Source Name	Chulha (Wood)- Kanpur
Source Code	9

Profile **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	10.9607	0.5480		
OC3	9.7745	0.4887		
OC4	6.2365	0.3118		
OP	7.2231	0.3612		
Total OC	48.4451	2.4223		
Elemental Carbon				
EC1	7.6483	0.3824		
EC2	0.3206	0.0160		
EC3	0.0297	0.0015		
Total EC	7.9986	0.3999		
Total Carbon	56.4437	2.8222		
Identified percentage of total mass	71.7095	6.0228		
Molecular Marker				
n- Hentriacontane	0.0356	0.0036		
n-Tritriacontane	0.0356	0.0036		
n- Pentatriacontane	0.0356	0.0036		
Hexadecanamide	0.0356	0.0036		
Octadecanamide	0.0356	0.0036		
Benzo[b]fluoranthene	0.5754	0.0575		
Benzo[k]fluoranthene	0.0356	0.0036		
Benzo[e]pyrene	0.0356	0.0036		
Indeno[1,2,3-cd]fluoranthene	0.0356	0.0036		
Indeno[1,2,3-cd]pyrene	0.0356	0.0036		
Picene	0.0356	0.0036		
Coronene	0.0356	0.0036		

Source Name	Chulha (Wood) from Mumbai
Source Code	9

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	Pmy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0106	0.0076	0.0240	0.0091
Al	0.0062	0.0007	0.0012	0.0004
As	0.0041	0.0066	0.0106	0.0076
Ba	0.0003	0.0002	0.0002	0.0002
Ca	0.0022	0.0016	0.0025	0.0018
Cd	0.0006	0.0005	0.0007	0.0005
Ce	0.0232	0.0167	0.0257	0.0185
Co	0.0026	0.0019	0.0029	0.0021
Cr	0.0092	0.0012	0.0035	0.0009
Cu	0.0065	0.0011	0.0029	0.0010
Fe	0.7167	0.0517	0.0024	0.0017
Ga	0.0177	0.0127	0.0018	0.0132
Hf	0.0044	0.0048	0.0005	0.0051
Hg	0.0026	0.0019	0.0024	0.0020
In	0.2423	0.0287	0.1952	0.0270
K	1.5823	0.1582	1.3442	0.1476
Lu	0.0003	0.0002	0.0004	0.0002
Mg	0.0018	0.0013	0.0020	0.0014
Mn	0.0050	0.0006	0.0004	0.0003
Mo	0.0035	0.0021	0.0050	0.0024
Na	0.3911	0.0340	0.1156	0.0160
Ni	0.0220	0.0130	0.0076	0.0136
P	0.0293	0.0110	0.0265	0.0119
Pb	0.0174	0.0125	0.0193	0.0139
Pd	0.0094	0.0067	0.0255	0.0083
Sb	0.0006	0.0063	0.0027	0.0070
Sc	0.0000	0.0003	0.0005	0.0003

Source Name	Chulha (Wood) from Mumbai
Source Code	9

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	Pmy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0009	0.0058	0.0009	0.0064
Si	0.0055	0.0040	0.0061	0.0044
Sm	0.0107	0.0077	0.0119	0.0085
Sn	0.1324	0.0118	0.0052	0.0038
Sr	0.0001	0.0001	0.0001	0.0001
Th	0.0033	0.0024	0.0009	0.0025
Ti	0.0008	0.0005	0.0002	0.0005
V	0.0021	0.0034	0.0097	0.0042
W	0.0149	0.0107	0.0230	0.0122
Y	0.0002	0.0005	0.0008	0.0006
Zn	0.3594	0.0256	0.3288	0.0235
Zr	0.0103	0.0014	0.0013	0.0009
ANIONS				
F	0.0817	0.0076	0.3009	0.0232
Cl	3.3609	0.2814	3.2136	0.2767
NO2	0.0191	0.0013	0.0214	0.0015
Br	0.0097	0.0070	0.0109	0.0078
NO3	0.0191	0.0137	0.0214	0.0154
PO4	0.0090	0.0065	0.0101	0.0072
SO4	0.4745	0.0396	0.2973	0.0281
CATIONS				
Na	0.2399	0.1491	0.2296	0.1650
NH4	0.0868	0.0624	0.0973	0.0699
K	1.9416	0.2233	1.6163	0.2133
Ca	0.1348	0.2039	0.3311	0.2379
Mg	0.6348	0.0906	0.0893	0.0641
Organic Carbon				
OC1	18.4044	0.9202	17.6921	0.8846

Source Name	Chulha (Wood) from Mumbai
Source Code	9

Profile for **PM10 and PM2.5**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	Pmy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	14.1509	0.7075	13.6303	0.6815
OC3	9.2848	0.4642	9.1476	0.4574
OC4	3.9181	0.1959	4.2552	0.2128
OP	8.3466	0.4173	7.7368	0.3868
Total OC	54.1048	2.7052	52.4620	2.6231
Elemental Carbon				
EC1	6.3487	0.3174	5.6888	0.2844
EC2	0.8118	0.0406	1.1093	0.0555
EC3	0.3889	0.0194	0.5575	0.0279
Total EC	7.5494	0.3775	7.3556	0.3678
Total Carbon	61.6542	3.0827	59.8176	2.9909
Identified percentage of total mass	72.3187	4.6268	68.2717	4.4825
Molecular Marker				
n- Hentriacontane	0.5382	0.0538		
n-Tritriacontane	0.6331	0.0633		
n- Pentatriacontane	0.9950	0.0995		
Hexadecanamide	0.6360	0.0636		
Octadecanamide	0.0923	0.0092		
Benzo[b]fluoranthene	0.0029	0.0003		
Benzo[k]fluoranthene	0.0222	0.0022		
Benzo[e]pyrene	0.0107	0.0011		
Indeno[1,2,3-cd]fluoranthene	0.0994	0.0099		
Indeno[1,2,3-cd]pyrene	0.0029	0.0003		
Picene	0.0029	0.0003		
Coronene	0.9184	0.0918		

Source Name	Coal Combustion-Domestic (Kanpur)
Source Code	8

Profile PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0294	0.0211		
Al	0.0114	0.0016		
As	0.0267	0.0192		
Ba	0.0008	0.0006		
Ca	0.0596	0.0079		
Cd	0.0106	0.0018		
Ce	0.0646	0.0464		
Co	0.0072	0.0052		
Cr	0.0066	0.0021		
Cu	0.1508	0.0122		
Fe	0.0061	0.0044		
Ga	0.0392	0.0349		
Hf	0.0202	0.0137		
Hg	0.0073	0.0052		
In	0.0992	0.0440		
K	2.0697	0.2854		
Lu	0.0008	0.0005		
Mg	0.0049	0.0035		
Mn	0.0017	0.0008		
Mo	0.0114	0.0059		
Na	0.0345	0.0248		
Ni	0.0217	0.0342		
P	0.0395	0.0284		
Pb	1.5716	0.1364		
Pd	0.0260	0.0187		
Sb	0.0260	0.0187		
Sc	0.0005	0.0008		

Source Name	Coal Combustion-Domestic (Kanpur)
Source Code	8

Profile PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0438	0.0183		
Si	0.2214	0.0242		
Sm	0.0298	0.0214		
Sn	0.1478	0.0181		
Sr	0.0004	0.0002		
Th	0.0081	0.0066		
Ti	0.0018	0.0013		
V	0.0137	0.0099		
W	0.0414	0.0297		
Y	0.0019	0.0014		
Zn	0.1465	0.0110		
Zr	0.0249	0.0036		
ANIONS				
F	0.0497	0.0099		
Cl	0.3686	0.1977		
NO2	0.0323	0.0023		
Br	0.0519	0.0229		
NO3	0.2888	0.0557		
PO4	0.0278	0.0199		
SO4	5.9304	0.4373		
CATIONS				
Na	0.8278	0.4660		
NH4	0.5170	0.2065		
K	5.2610	0.6441		
Ca	1.0034	0.6618		
Mg	0.2463	0.1769		
Organic Carbon				
OC1	7.3240	0.3662		

Source Name	Coal Combustion-Domestic (Kanpur)
Source Code	8

Profile **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	17.7417	0.8871		
OC3	7.9100	0.3955		
OC4	8.8308	0.4415		
OP	9.9172	0.4959		
Total OC	51.7237	2.5862		
Elemental Carbon				
EC1	7.0853	0.3543		
EC2	0.5314	0.0266		
EC3	0.1972	0.0099		
Total EC	7.8139	0.3907		
Total Carbon	59.5376	2.9769		
Identified percentage of total mass	79.1719	6.8018		
Molecular Marker				
n- Hentriacontane	0.0052	0.0005		
n-Tritriacontane	0.0052	0.0005		
n- Pentatriacontane	0.0052	0.0005		
Hexadecanamide	0.0052	0.0005		
Octadecanamide	0.0052	0.0005		
Benzo[b]fluoranthene	0.0052	0.0005		
Benzo[k]fluoranthene	0.0052	0.0005		
Benzo[e]pyrene	0.0052	0.0005		
Indeno[1,2,3-cd]fluoranthene	0.0052	0.0005		
Indeno[1,2,3-cd]pyrene	0.0052	0.0005		
Picene	0.0052	0.0005		
Coronene	0.0052	0.0005		

Source Name	Coal Combustion-Domestic (Mumbai)
Source Code	8

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0281	0.0137	0.0231	0.0166
Al	0.1320	0.0097	0.0032	0.0009
As	0.0263	0.0125	0.0227	0.0152
Ba	0.0019	0.0005	0.0011	0.0005
Ca	0.0958	0.0088	0.0049	0.0035
Cd	0.0011	0.0008	0.0014	0.0010
Ce	0.0403	0.0289	0.0508	0.0365
Co	0.0045	0.0032	0.0057	0.0041
Cr	0.0060	0.0014	0.0055	0.0017
Cu	0.0345	0.0035	0.0357	0.0038
Fe	0.1821	0.0148	0.0048	0.0035
Ga	0.0124	0.0211	0.0387	0.0278
Hf	0.0000	0.0079	0.0443	0.0124
Hg	0.0037	0.0032	0.0057	0.0041
In	0.1462	0.0323	0.0603	0.0336
K	9.4542	0.7430	9.5599	0.7709
Lu	0.0002	0.0003	0.0006	0.0004
Mg	0.0348	0.0042	0.0039	0.0028
Mn	0.1212	0.0089	0.0008	0.0006
Mo	0.0138	0.0040	0.0238	0.0055
Na	1.8613	0.1421	1.8038	0.1409
Ni	0.0866	0.0253	0.0391	0.0281
P	0.1951	0.0279	0.1038	0.0264
Pb	0.1153	0.0265	0.0796	0.0297
Pd	0.0162	0.0117	0.0077	0.0140
Sb	0.0162	0.0116	0.0205	0.0147
Sc	0.0007	0.0005	0.0009	0.0007
Se	0.0225	0.0111	0.0441	0.0149
Si	0.0095	0.0069	0.0120	0.0087

Source Name	Coal Combustion-Domestic (Mumbai)
Source Code	8

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Sm	0.0186	0.0134	0.0235	0.0169
Sn	0.1904	0.0178	0.0104	0.0074
Sr	0.0076	0.0006	0.0032	0.0003
Th	0.0112	0.0045	0.0073	0.0053
Ti	0.0011	0.0008	0.0035	0.0011
V	0.0085	0.0061	0.0001	0.0072
W	0.0258	0.0185	0.0325	0.0234
Y	0.0005	0.0008	0.0015	0.0011
Zn	0.2174	0.0158	0.1649	0.0122
Zr	0.0020	0.0014	0.0017	0.0018
ANIONS				
F	0.1153	0.0117	0.4154	0.0333
Cl	9.4162	0.7491	9.7263	0.7872
NO2	0.0288	0.0020	0.0439	0.0031
Br	0.0189	0.0136	0.0224	0.0161
NO3	0.2223	0.0375	0.0439	0.0316
PO4	0.0174	0.0125	0.0207	0.0149
SO4	29.3187	2.0842	32.0992	2.2829
CATIONS				
Na	2.1323	0.3865	2.1530	0.4357
NH4	0.1684	0.1210	0.1999	0.1436
K	23.5188	1.8113	23.9614	1.8713
Ca	1.7474	0.4774	1.0704	0.5099
Mg	0.3519	0.1219	0.1834	0.1318
Organic Carbon				
OC1	2.7867	0.1393	2.8868	0.1443
OC2	3.8683	0.1934	4.2058	0.2103
OC3	4.8675	0.2434	3.0706	0.1535
OC4	2.6858	0.1343	2.1191	0.1060

Source Name	Coal Combustion-Domestic (Mumbai)
Source Code	8

Profile **PM10 and PM2.5**
Location **Laboratory**
Control **Not Applicable**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OP	1.2100	0.0605	0.8217	0.0411
Total OC	15.4183	0.7709	13.1039	0.6552
Elemental Carbon				
EC1	1.0450	0.0523	0.4433	0.0222
EC2	0.9808	0.0490	0.5622	0.0281
EC3	0.4033	0.0202	0.1189	0.0059
Total EC	2.4292	0.1215	1.1244	0.0562
Total Carbon	17.8475	0.8924	14.2284	0.7114
Identified percentage of total mass	98.0496		96.4253	
Molecular Marker				
n- Hentriacontane	0.1448	0.0145		
n-Tritriacontane	0.1153	0.0115		
n- Pentatriacontane	0.0082	0.0008		
Hexadecanamide	0.3714	0.0371		
Octadecanamide	0.3259	0.0326		
Benzo[b]fluoranthene	0.0082	0.0008		
Benzo[k]fluoranthene	0.0082	0.0008		
Benzo[e]pyrene	0.0082	0.0008		
Indeno[1,2,3-cd]fluoranthene	0.0082	0.0008		
Indeno[1,2,3-cd]pyrene	0.0082	0.0008		
Picene	0.0082	0.0008		
Coronene	0.0082	0.0008		

Source Name	Coal Combustion-Power Plant-Delhi
Source Code	12

Profile PM10
Location Delhi
Controls ESP

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0284	0.0204		
Al	0.0432	0.0037		
As	0.0257	0.0185		
Ba	0.0306	0.0026		
Ca	0.2576	0.0212		
Cd	0.0102	0.0017		
Ce	0.0623	0.0447		
Co	0.0070	0.0050		
Cr	0.0192	0.0028		
Cu	0.2158	0.0167		
Fe	2.5518	0.1832		
Ga	0.0540	0.0345		
Hf	0.0546	0.0152		
Hg	0.0070	0.0050		
In	0.0561	0.0403		
K	0.2660	0.1693		
Lu	0.0007	0.0005		
Mg	0.0888	0.0088		
Mn	0.0428	0.0035		
Mo	0.0324	0.0069		
Na	0.2888	0.0394		
Ni	0.0899	0.0367		
P	0.0381	0.0273		
Pb	0.0999	0.0365		
Pd	0.0107	0.0173		
Sb	0.1039	0.0225		
Sc	0.0012	0.0008		
Se	0.0669	0.0190		
Si	0.1120	0.0164		
Sm	0.0288	0.0207		
Sn	0.4588	0.0389		
Sr	0.0092	0.0008		
Th	0.0090	0.0064		
Ti	0.1894	0.0142		
V	0.0523	0.0117		
W	0.1300	0.0337		
Y	0.0019	0.0013		

Source Name	Coal Combustion-Power Plant-Delhi
Source Code	12

Profile PM10
Location Delhi
Controls ESP

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Zn	0.0013	0.0009		
Zr	0.0242	0.0035		
ANIONS				
F	1.3385	0.0996		
Cl	2.5729	0.3289		
NO2	0.6985	0.0494		
Br	0.1085	0.0256		
NO3	6.8718	0.5138		
PO4	0.0271	0.0195		
SO4	1.4343	0.1198		
CATIONS				
Na	0.7436	0.4513		
NH4	1.9135	0.2869		
K	0.0769	0.3179		
Ca	0.8013	0.6362		
Mg	0.2406	0.1728		
Organic Carbon				
OC1	1.5039	0.0752		
OC2	2.4589	0.1229		
OC3	3.1395	0.1570		
OC4	1.2734	0.0637		
OP	0.3293	0.0165		
Total OC	8.7050	0.4353		
Elemental Carbon				
EC1	0.7684	0.0384		
EC2	0.6038	0.0302		
EC3	0.5050	0.0252		
Total EC	1.8771	0.0939		
Total Carbon	10.5821	0.5291		
Identified percentage of total mass	32.9798	4.5038		
Molecular Marker				
n- Hentriacontane	0.0040	0.0004		
n-Tritriacontane	0.0040	0.0004		
n- Pentatriacontane	0.0040	0.0004		

Source Name	Coal Combustion-Power Plant-Delhi
Source Code	12

Profile **PM10**
Location **Delhi**
Controls **ESP**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Hexadecanamide	0.0040	0.0004		
Octadecanamide	0.0040	0.0004		
Benzo[b]fluoranthene	0.0040	0.0004		
Benzo[k]fluoranthene	0.0040	0.0004		
Benzo[e]pyrene	0.0040	0.0004		
Indeno[1,2,3-cd]fluoranthene	0.0040	0.0004		
Indeno[1,2,3-cd]pyrene	0.0040	0.0004		
Picene	0.0040	0.0004		
Coronene	0.0040	0.0004		

Source Name	Coal Combustion-Power Plant-Kanpur
Source Code	12

Profile PM10
Location Kanpur
Control ESP

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0045	0.0024		
Al	0.0416	0.0030		
As	0.0267	0.0036		
Ba	0.0625	0.0045		
Ca	0.7321	0.0521		
Cd	0.0564	0.0041		
Ce	0.0133	0.0054		
Co	0.0017	0.0006		
Cr	0.0164	0.0013		
Cu	0.0397	0.0030		
Fe	3.5098	0.2485		
Ga	0.0049	0.0038		
Hf	0.0044	0.0016		
Hg	0.0068	0.0009		
In	0.0724	0.0087		
K	0.3135	0.0371		
Lu	0.0001	0.0001		
Mg	0.3330	0.0238		
Mn	0.0387	0.0028		
Mo	0.0028	0.0007		
Na	0.0866	0.0082		
Ni	0.0048	0.0039		
P	0.2211	0.0178		
Pb	10.4052	0.7383		
Pd	0.0033	0.0021		
Sb	0.0396	0.0045		
Sc	0.0014	0.0002		

Source Name	Coal Combustion-Power Plant-Kanpur
Source Code	12

Profile **PM10**
Location **Kanpur**
Control **ESP**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Se	0.0064	0.0021		
Si	0.0466	0.0042		
Sm	0.0033	0.0023		
Sn	0.2539	0.0187		
Sr	0.0201	0.0014		
Th	0.0019	0.0008		
Ti	0.9810	0.0695		
V	0.0138	0.0018		
W	0.0065	0.0034		
Y	0.0026	0.0003		
Zn	0.0800	0.0057		
Zr	0.0060	0.0006		
ANIONS				
F	0.3247	0.0235		
Cl	0.3398	0.0419		
NO2	0.0475	0.0034		
Br	0.0058	0.0027		
NO3	0.0883	0.0102		
PO4	0.0042	0.0024		
SO4	0.9103	0.0665		
CATIONS				
Na	0.0875	0.0539		
NH4	0.2742	0.0372		
K	0.2321	0.0517		
Ca	0.1067	0.0767		
Mg	0.0288	0.0207		
Organic Carbon				
OC1	0.0701	0.0035		

Source Name	Coal Combustion-Power Plant-Kanpur
Source Code	12

Profile PM10
Location Kanpur
Control ESP

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
OC2	0.1506	0.0075		
OC3	0.2672	0.0134		
OC4	0.1403	0.0070		
OP	0.0883	0.0044		
Total OC	0.8806	0.0440		
Elemental Carbon				
EC1	0.2735	0.0137		
EC2	0.2053	0.0103		
EC3	0.0358	0.0018		
Total EC	0.5146	0.0257		
Total Carbon	1.3952	0.0698		
Identified percentage of total mass	21.1460			
Molecular Marker				
n- Hentriacontane	0.0014	0.0001		
n-Tritriacontane	0.0014	0.0001		
n- Pentatriacontane	0.0014	0.0001		
Hexadecanamide	0.0014	0.0001		
Octadecanamide	0.0014	0.0001		
Benzo[b]fluoranthene	0.0014	0.0001		
Benzo[k]fluoranthene	0.0014	0.0001		
Benzo[e]pyrene	0.0014	0.0001		
Indeno[1,2,3-cd]fluoranthene	0.0014	0.0001		
Indeno[1,2,3-cd]pyrene	0.0014	0.0001		
Picene	0.0014	0.0001		
Coronene	0.0014	0.0001		

Source Name	Constrution and Aggregate Processing
Source Code	43

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0038	0.0038		
Al	0.0490	0.0490		
As	0.0059	0.0059		
Ba	0.0371	0.0371		
Ca	3.3278	3.3278		
Cd	0.0015	0.0015		
Ce	0.0142	0.0142		
Co	0.0016	0.0016		
Cr	0.0106	0.0106		
Cu	0.0045	0.0045		
Fe	3.0423	3.0423		
Ga	0.0018	0.0018		
Hf	0.0042	0.0042		
Hg	0.0016	0.0016		
In	0.1381	0.1381		
K	0.3419	0.3419		
Lu	0.0002	0.0002		
Mg	0.4879	0.4879		
Mn	0.0459	0.0459		
Mo	0.0017	0.0017		
Na	0.6093	0.6093		
Ni	0.0074	0.0074		
P	0.0087	0.0087		
Pb	0.0433	0.0433		
Pd	0.0090	0.0090		
Sb	0.0136	0.0136		
Sc	0.0004	0.0004		
Se	0.0063	0.0063		
Si	0.1689	0.1689		
Sm	0.0066	0.0066		
Sn	1.5777	1.5777		
Sr	0.0442	0.0442		
Th	0.0028	0.0028		
Ti	0.1476	0.1476		

Source Name	Constrution and Aggregate Processing
Source Code	43

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0030	0.0030		
W	0.0091	0.0091		
Y	0.0007	0.0007		
Zn	0.1779	0.1779		
Zr	0.0035	0.0035		
ANIONS				
F	0.0981	0.0084		
Cl	0.1685	0.0561		
NO2	0.0525	0.0037		
Br	0.0079	0.0057		
NO3	0.8047	0.0647		
PO4	0.0392	0.0071		
SO4	3.2060	0.2314		
CATIONS				
Na	0.2485	0.1245		
NH4	0.2381	0.0603		
K	0.1775	0.0941		
Ca	12.8694	1.0299		
Mg	0.0650	0.0467		
Organic Carbon				
OC1	2.6587	0.1329		
OC2	1.9102	0.0955		
OC3	3.1867	0.1593		
OC4	0.8587	0.0429		
OP	0.1791	0.0090		
Total OC	8.7933	0.4397		
Elemental Carbon				
EC1	1.0102	0.0505		
EC2	0.2893	0.0145		
EC3	0.1240	0.0062		
Total EC	1.4235	0.0712		
Total Carbon	10.2168	0.5108		
Identified percentage of total mass	38.5538	12.6050		

Source Name	Constrution and Aggregate Processing
Source Code	43

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Marker				
n- Hentriacontane	0.0076	0.0008		
n-Tritriacontane	0.0076	0.0008		
n- Pentatriacontane	0.0076	0.0008		
Hexadecanamide	0.0076	0.0008		
Octadecanamide	0.0076	0.0008		
Benzo[b]fluoranthene	0.0076	0.0008		
Benzo[k]fluoranthene	0.0076	0.0008		
Benzo[e]pyrene	0.0076	0.0008		
eno[1,2,3-cd]fluoranthe	0.0076	0.0008		
ndeno[1,2,3-cd]pyrene	0.0076	0.0008		
Picene	0.0076	0.0008		
Coronene	0.0076	0.0008		

Source Name	Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines
Source Code	21

Profile PM10 and PM2.5

Location Bangalore

Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.1243	0.0918	0.1950	0.1048
Al	0.0277	0.0054	1.0770	0.0796
As	0.1475	0.0852	0.3739	0.1061
Ba	0.0116	0.0031	0.1310	0.0114
Ca	0.0271	0.0194	28.7272	2.0492
Cd	0.0159	0.0059	0.0930	0.0117
Ce	0.2813	0.2021	0.2731	0.2212
Co	0.0314	0.0226	0.0347	0.0249
Cr	0.0830	0.0128	1.2363	0.0945
Cu	0.0922	0.0146	1.4358	0.1092
Fe	0.6154	0.0593	184.2229	13.0418
Ga	0.1069	0.1485	0.1514	0.1657
Hf	0.2025	0.0664	0.2212	0.0733
Hg	0.0316	0.0227	0.7235	0.0722
In	0.1993	0.1791	2.4064	0.3409
K	0.4008	0.7222	2.2319	0.8982
Lu	0.0033	0.0024	0.0157	0.0034
Mg	0.0214	0.0154	0.5595	0.0538
Mn	0.0048	0.0034	1.0785	0.0791
Mo	0.1674	0.0327	0.1797	0.0356
Na	0.1883	0.1100	1.3390	0.1960
Ni	0.0971	0.1492	0.8436	0.2101
P	0.2174	0.1260	0.1898	0.1364
Pb	0.1348	0.1477	0.2099	0.1662
Pd	0.1411	0.0830	0.2380	0.0967
Sb	0.2410	0.0887	0.1819	0.0930
Sc	0.0060	0.0038	0.0058	0.0041
Se	0.6585	0.1077	0.5655	0.1088
Si	0.9011	0.1036	0.8323	0.1022
Sm	0.1299	0.0933	0.1435	0.1031
Sn	0.7018	0.0823	1.5019	0.1399
Sr	0.0020	0.0009	0.0553	0.0046
Th	0.1175	0.0336	0.1913	0.0407

Source Name	Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines
Source Code	21

Profile PM10 and PM2.5

Location Bangalore

Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Ti	0.0213	0.0065	0.1228	0.0136
V	0.4749	0.0682	0.4400	0.0699
W	0.3419	0.1386	0.6668	0.1697
Y	0.0084	0.0060	0.0078	0.0066
Zn	0.0239	0.0054	2.6295	0.1894
Zr	0.0114	0.0100	0.0714	0.0144
ANIONS				
F	0.0271	0.0301	0.0491	0.0353
Cl	5.6944	1.0622	5.3504	1.1293
NO2	0.1575	0.0111	0.0737	0.0052
Br	0.3292	0.0999	0.4959	0.1207
NO3	8.4464	0.7263	0.7707	0.2271
PO4	0.1130	0.0812	0.1289	0.0926
SO4	2.6541	0.2727	0.5676	0.1494
CATIONS				
Na	4.9937	1.9892	4.9886	2.2253
NH4	7.6642	1.1758	3.5308	1.0311
K	4.1570	1.5373	2.8770	1.6446
Ca	3.8250	2.6816	1.6876	2.9143
Mg	1.1191	0.7265	1.1438	0.8217
Organic Carbon				
OC1	3.3233	0.1662	4.8058	0.2403
OC2	4.5819	0.2291	6.2528	0.3126
OC3	4.2458	0.2123	4.9661	0.2483
OC4	1.6625	0.0831	1.9480	0.0974
OP	2.6723	0.1336	3.1096	0.1555
Total OC	16.4857	0.8243	21.0823	1.0541
Elemental Carbon				
EC1	17.0459	0.8523	21.3437	1.0672
EC2	14.3070	0.7153	19.1622	0.9581
EC3	1.1836	0.0592	0.8451	0.0423
Total EC	32.5364	1.6268	41.3510	2.0675
Total Carbon	49.0221	2.4511	62.4333	3.1217

Source Name	Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines
Source Code	21

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Identified percentage of total mass	95.2165		319.7013	
Molecular Marker				
n- Hentriacontane	0.0031	0.0003		
n-Tritriacontane	0.0031	0.0003		
n- Pentatriacontane	0.0338	0.0034		
Hexadecanamide	0.9135	0.0913		
Octadecanamide	0.2154	0.0215		
Benzo[b]fluoranthene	0.0031	0.0003		
Benzo[k]fluoranthene	0.0031	0.0003		
Benzo[e]pyrene	0.0031	0.0003		
Indeno[1,2,3-cd]fluoranthene	0.0031	0.0003		
Indeno[1,2,3-cd]pyrene	0.0031	0.0003		
Picene	0.4415	0.0442		
Coronene	0.0031	0.0003		

Source Name	Electric Arc Furnace
Source Code	45

Profile **PM10 and PM2.5**
Location **Bangalore**
Control **Uncontrolled**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0037	0.0041	0.0065	0.0059
Al	4.9772	0.3521	4.5453	0.3216
As	0.0786	0.0086	0.0929	0.0109
Ba	0.0241	0.0018	0.0231	0.0017
Ca	1.8492	0.1313	2.2654	0.1610
Cd	0.0201	0.0016	0.0126	0.0012
Ce	0.0220	0.0098	0.0301	0.0138
Co	0.0015	0.0010	0.0020	0.0015
Cr	0.0491	0.0037	0.0522	0.0041
Cu	0.1173	0.0086	0.1151	0.0086
Fe	47.3869	3.3513	43.4826	3.0755
Ga	0.0117	0.0072	0.0110	0.0098
Hf	0.0044	0.0028	0.0086	0.0040
Hg	0.0737	0.0060	0.0695	0.0060
In	1.1195	0.0849	1.2108	0.0937
K	4.3470	0.3314	4.5109	0.3534
Lu	0.0009	0.0002	0.0005	0.0002
Mg	1.7935	0.1273	1.7679	0.1257
Mn	4.8520	0.3432	4.4208	0.3127
Mo	0.0046	0.0013	0.0066	0.0019
Na	0.6687	0.0507	0.8144	0.0625
Ni	0.0218	0.0078	0.0220	0.0105
P	0.0410	0.0077	0.0268	0.0089
Pb	0.5200	0.0416	0.5233	0.0440
Pd	0.0267	0.0051	0.0320	0.0068
Sb	0.0052	0.0038	0.0062	0.0052
Sc	0.0002	0.0002	0.0003	0.0002
Se	0.0105	0.0038	0.0234	0.0059
Si	0.0571	0.0057	0.0741	0.0076

Source Name	Electric Arc Furnace
Source Code	45

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Sm	0.0060	0.0043	0.0084	0.0060
Sn	0.0377	0.0043	0.0377	0.0049
Sr	0.0053	0.0004	0.0057	0.0004
Th	0.0023	0.0014	0.0038	0.0019
Ti	0.0593	0.0044	0.0584	0.0044
V	0.0089	0.0023	0.0151	0.0035
W	0.0617	0.0093	0.0390	0.0100
Y	0.0007	0.0003	0.0007	0.0004
Zn	1.0149	0.0719	1.0965	0.0777
Zr	0.0052	0.0007	0.0091	0.0012
ANIONS				
F	0.3905	0.0286	0.3982	0.0296
Cl	0.4242	0.0597	0.3720	0.0703
NO2	0.0071	0.0005	0.0114	0.0008
Br	0.0288	0.0056	0.0449	0.0081
NO3	0.0114	0.0082	0.0162	0.0116
PO4	0.0054	0.0039	0.0076	0.0055
SO4	0.7549	0.0569	0.6998	0.0546
CATIONS				
Na	0.9150	0.1370	0.9229	0.1706
NH4	0.2349	0.0483	0.2022	0.0605
K	5.9033	0.4655	6.6069	0.5367
Ca	0.6555	0.1552	0.6469	0.2033
Mg	0.2235	0.0450	0.2906	0.0621
Organic Carbon				
OC1	0.0863	0.0043	0.1437	0.0072
OC2	0.4507	0.0225	0.6298	0.0315
OC3	1.2291	0.0615	1.4249	0.0712
OC4	0.3171	0.0159	0.3639	0.0182
OP	0.0000	0.0000	0.0000	0.0000

Source Name	Electric Arc Furnace
Source Code	45

Profile **PM10 and PM2.5**
Location **Bangalore**
Control **Uncontrolled**

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Total OC	2.0832	0.1042	2.5623	0.1281
Elemental Carbon				
EC1	0.0511	0.0026	0.1261	0.0063
EC2	0.0346	0.0017	0.0961	0.0048
EC3	0.0000	0.0000	0.0044	0.0002
Total EC	0.0857	0.0043	0.2266	0.0113
Total Carbon	2.1689	0.1084	2.7888	0.1394
Identified percentage of total mass	81.0132		78.4394	
Molecular Markers				
n- Hentriacontane	0.0065	0.0006		
n-Tritriacontane	0.0065	0.0006		
n- Pentatriacontane	0.0065	0.0006		
Hexadecanamide	0.0065	0.0006		
Octadecanamide	0.0065	0.0006		
Benzo[b]fluoranthene	0.0065	0.0006		
Benzo[k]fluoranthene	0.0065	0.0006		
Benzo[e]pyrene	0.0239	0.0024		
Indeno[1,2,3-cd]fluoranthene	0.0065	0.0006		
Indeno[1,2,3-cd]pyrene	0.1280	0.0128		
Picene	0.0065	0.0006		
Coronene	0.0065	0.0006		

Source Name	Fertilizer Plant Stack
Source Code	6007

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0059	0.0043		
Al	0.0058	0.0006		
As	0.0054	0.0039		
Ba	0.0201	0.0015		
Ca	0.7463	0.0534		
Cd	0.0008	0.0003		
Ce	0.0130	0.0094		
Co	0.0015	0.0010		
Cr	0.0066	0.0008		
Cu	0.0006	0.0004		
Fe	0.7325	0.0524		
Ga	0.0099	0.0071		
Hf	0.0003	0.0026		
Hg	0.0015	0.0011		
In	0.0975	0.0136		
K	0.3825	0.0551		
Lu	0.0002	0.0001		
Mg	0.0010	0.0007		
Mn	0.0045	0.0004		
Mo	0.0016	0.0011		
Na	0.2094	0.0184		
Ni	0.0060	0.0070		
P	0.0195	0.0064		
Pb	0.0287	0.0081		
Pd	0.0053	0.0038		
Sb	0.0226	0.0048		
Sc	0.0000	0.0002		
Se	0.0121	0.0039		
Si	0.0322	0.0040		
Sm	0.0060	0.0043		
Sn	1.5442	0.1105		
Sr	0.0010	0.0001		
Th	0.0029	0.0014		
Ti	0.0045	0.0005		

Source Name	Fertilizer Plant Stack
Source Code	6007

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0028	0.0020		
W	0.0084	0.0060		
Y	0.0004	0.0003		
Zn	0.1440	0.0103		
Zr	0.0007	0.0005		
ANIONS				
F	0.1285	0.0103		
Cl	11.3644	0.8330		
NO2	0.0135	0.0001		
Br	0.0069	0.0050		
NO3	40.4648	2.8677		
PO4	3.7561	0.2686		
SO4	3.2440	0.2334		
CATIONS				
Na	0.3376	0.1151		
NH4	13.3951	0.9767		
K	6.5220	0.5160		
Ca	2.6025	0.2997		
Mg	0.0113	0.0383		
Organic Carbon				
OC1	1.7012	0.0851		
OC2	0.3887	0.0194		
OC3	0.3692	0.0185		
OC4	0.0591	0.0030		
OP	0.0000	0.0000		
Total OC	2.5183	0.1259		
Elemental Carbon				
EC1	0.0404	0.0020		
EC2	0.0000	0.0000		
EC3	0.0022	0.0001		
Total EC	0.0425	0.0021		
Total Carbon	2.5608	0.1280		
Identified percentage of total mass	88.4954			

Source Name	Fertilizer Plant Stack
Source Code	6007

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Markers				
n- Hentriacontane	0.0031	0.0003		
n-Tritriacontane	0.0031	0.0003		
n- Pentatriacontane	0.0031	0.0003		
Hexadecanamide	0.0031	0.0003		
Octadecanamide	0.0031	0.0003		
Benzo[b]fluoranthene	0.0031	0.0003		
Benzo[k]fluoranthene	0.0031	0.0003		
Benzo[e]pyrene	0.0031	0.0003		
ndeno[1,2,3-cd]fluoranthene	0.0031	0.0003		
Indeno[1,2,3-cd]pyrene	0.0031	0.0003		
Picene	0.0031	0.0003		
Coronene	0.0031	0.0003		

Source Name	Fuel Oil Combustion (Furnace Oil)
Source Code	2

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0046	0.0044	0.0083	0.0059
Al	0.0045	0.0005	0.0041	0.0005
As	0.0241	0.0052	0.1121	0.0122
Ba	0.0001	0.0001	0.0019	0.0003
Ca	0.2142	0.0159	0.3845	0.0281
Cd	0.0029	0.0004	0.0019	0.0004
Ce	0.0137	0.0099	0.0135	0.0128
Co	0.0015	0.0011	0.0020	0.0015
Cr	0.0006	0.0004	0.0109	0.0012
Cu	0.0017	0.0005	0.0018	0.0007
Fe	0.0690	0.0057	0.1663	0.0128
Ga	0.0033	0.0072	0.0149	0.0100
Hf	0.0091	0.0032	0.0109	0.0042
Hg	0.0015	0.0011	0.0020	0.0015
In	0.0166	0.0091	0.0188	0.0119
K	0.0533	0.0371	0.0559	0.0481
Lu	0.0002	0.0001	0.0004	0.0002
Mg	0.0318	0.0028	0.0413	0.0037
Mn	0.0012	0.0002	0.0016	0.0003
Mo	0.0078	0.0016	0.0117	0.0022
Na	0.2345	0.0204	0.1345	0.0148
Ni	0.2989	0.0266	0.2554	0.0255
P	0.0172	0.0065	0.0521	0.0104
Pb	0.0103	0.0074	0.0116	0.0097
Pd	0.0057	0.0040	0.0136	0.0056
Sb	0.0098	0.0042	0.0051	0.0051
Sc	0.0003	0.0002	0.0005	0.0003
Se	0.0193	0.0045	0.0240	0.0059
Si	0.0565	0.0058	0.1068	0.0099
Sm	0.0063	0.0046	0.0084	0.0060

Source Name	Fuel Oil Combustion (Furnace Oil)
Source Code	2

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Sn	0.0247	0.0034	0.0346	0.0047
Sr	0.0007	0.0001	0.0004	0.0001
Th	0.0246	0.0029	0.0045	0.0020
Ti	0.0131	0.0011	0.0262	0.0021
V	0.6553	0.0477	0.6126	0.0452
W	0.0102	0.0064	0.0359	0.0097
Y	0.0011	0.0003	0.0005	0.0004
Zn	0.0462	0.0034	0.0458	0.0035
Zr	0.0019	0.0006	0.0055	0.0009
ANIONS				
F	0.0395	0.0040	0.0523	0.0054
Cl	0.1926	0.0481	0.3307	0.0704
NO2	0.0093	0.0007	0.0127	0.0009
Br	0.0963	0.0102	0.1122	0.0129
NO3	0.0403	0.0104	0.0658	0.0152
PO4	0.0057	0.0041	0.0080	0.0058
SO4	30.0644	2.1295	35.0042	2.4802
CATIONS				
Na	0.5494	0.1184	0.4674	0.1476
NH4	0.7203	0.0815	0.7670	0.0979
K	0.0659	0.0700	0.1598	0.1012
Ca	0.0858	0.1305	0.2346	0.1881
Mg	0.0510	0.0366	0.0711	0.0511
Organic Compounds				
OC1	0.7988	0.0399	0.9215	0.0461
OC2	0.3578	0.0179	0.6043	0.0302
OC3	1.4673	0.0734	0.5661	0.0283
OC4	0.8485	0.0424	0.5321	0.0266
OP	0.2617	0.0131	0.2234	0.0112
Total OC	3.7342	0.1867	2.8474	0.1424

Source Name	Fuel Oil Combustion (Furnace Oil)
Source Code	2

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elemental Carbon				
EC1	15.4987	0.7749	1.9021	0.0951
EC2	0.7780	0.0389	0.6014	0.0301
EC3	0.1471	0.0074	0.0000	0.0000
Total EC	16.4238	0.8212	2.5035	0.1252
Total TC	20.1580	1.0079	5.3509	0.2675
Identified percentage of total mass	53.9770	3.9086	44.8793	3.7641
Molecular Markers				
n- Hentriacontane	0.0089	0.0009		
n-Tritriacontane	0.0037	0.0004		
n- Pentatriacontane	0.0037	0.0004		
Hexadecanamide	0.0037	0.0004		
Octadecanamide	0.0037	0.0004		
Benzo[b]fluoranthene	0.0037	0.0004		
Benzo[k]fluoranthene	0.0037	0.0004		
Benzo[e]pyrene	0.0037	0.0004		
Indeno[1,2,3-cd]fluoranthene	0.0037	0.0004		
Indeno[1,2,3-cd]pyrene	0.0037	0.0004		
Picene	0.0037	0.0004		
Coronene	0.0037	0.0004		

Source Name	Fugitive Rock Phosphate Emissions from Fertilizer Plant			
Source Code	6005			

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0063	0.0045		
Al	0.0133	0.0011		
As	0.0057	0.0041		
Ba	0.0228	0.0017		
Ca	3.1689	0.2247		
Cd	0.0035	0.0005		
Ce	0.0137	0.0099		
Co	0.0015	0.0011		
Cr	0.0365	0.0029		
Cu	0.0030	0.0006		
Fe	1.6994	0.1208		
Ga	0.0030	0.0071		
Hf	0.0040	0.0029		
Hg	0.0015	0.0011		
In	0.1170	0.0153		
K	0.1637	0.0432		
Lu	0.0002	0.0001		
Mg	1.8246	0.1295		
Mn	0.0117	0.0009		
Mo	0.0012	0.0012		
Na	0.4928	0.0385		
Ni	0.0136	0.0077		
P	6.1083	0.4359		
Pb	0.0282	0.0084		
Pd	0.0064	0.0040		
Sb	0.0055	0.0040		
Sc	0.0004	0.0002		
Se	0.0065	0.0037		
Si	0.1478	0.0121		
Sm	0.0003	0.0042		
Sn	0.9511	0.0686		
Sr	0.1006	0.0071		
Th	0.0026	0.0015		
Ti	0.0192	0.0015		

Source Name	Fugitive Rock Phosphate Emissions from Fertilizer Plant			
Source Code	6005			

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0029	0.0021		
W	0.0088	0.0063		
Y	0.0120	0.0011		
Zn	0.1538	0.0110		
Zr	0.0007	0.0005		
ANIONS				
F	1.6799	0.1199		
Cl	0.0157	0.0406		
NO2	0.0132	0.0003		
Br	0.0067	0.0048		
NO3	0.0132	0.0095		
PO4	17.6067	1.2479		
SO4	34.3005	2.4293		
CATIONS				
Na	0.1935	0.1045		
NH4	0.0073	0.0403		
K	0.2213	0.0836		
Ca	11.5168	0.9156		
Mg	0.8457	0.0896		
Organic Carbon				
OC1	0.1415	0.0059		
OC2	0.4524	0.0190		
OC3	4.3824	0.1841		
OC4	0.3828	0.0161		
OP	0.9535	0.0401		
Total OC	6.3126	0.2653		
Elemental Carbon				
EC1	0.0000	0.0000		
EC2	0.5962	0.0251		
EC3	0.1206	0.0051		
Total EC	0.0302	0.0013		
Total Carbon	6.3428	0.2665		
Identified percentage of total mass	88.6131			

Source Name	Fugitive Rock Phosphate Emissions from Fertilizer Plant			
Source Code	6005			

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Markers				
n- Hentriacontane	0.0018	0.0002		
n-Tritriacontane	0.0018	0.0002		
n- Pentatriacontane	0.0018	0.0002		
Hexadecanamide	0.0018	0.0002		
Octadecanamide	0.0018	0.0002		
Benzo[b]fluoranthene	0.0018	0.0002		
Benzo[k]fluoranthene	0.0018	0.0002		
Benzo[e]pyrene	0.0018	0.0002		
Indeno[1,2,3-cd]fluoranthene	0.0018	0.0002		
Indeno[1,2,3-cd]pyrene	0.0018	0.0002		
Picene	0.0018	0.0002		
Coronene	0.0018	0.0002		

Source Name	Garden Waste Combustion
Source Code	5001

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0103	0.0181		
Al	0.0063	0.0459		
As	0.0128	0.0145		
Ba	0.0423	0.0067		
Ca	0.4154	0.2410		
Cd	0.0070	0.0020		
Ce	0.0310	0.0334		
Co	0.0035	0.0060		
Cr	0.0142	0.8266		
Cu	0.0161	0.0128		
Fe	0.1597	3.3317		
Ga	0.0236	0.0255		
Hf	0.0045	0.0097		
Hg	0.0035	0.0082		
In	0.1702	0.0532		
K	3.3455	0.3258		
Lu	0.0004	0.0004		
Mg	0.0390	0.0245		
Mn	0.0015	0.0470		
Mo	0.0031	0.0049		
Na	0.3201	0.1372		
Ni	0.0238	0.3287		
P	0.0189	0.0330		
Pb	0.4055	0.0619		
Pd	0.0123	0.0174		
Sb	0.0176	0.0159		
Sc	0.0003	0.0006		

Source Name	Garden Waste Combustion
Source Code	5001

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Se	0.0115	0.0125		
Si	0.8430	0.0531		
Sm	0.0143	0.0154		
Sn	2.3092	0.3244		
Sr	0.0015	0.0007		
Th	0.0071	0.0050		
Ti	0.0154	0.0037		
V	0.0066	0.0071		
W	0.0199	0.0214		
Y	0.0009	0.0010		
Zn	0.2660	0.0394		
Zr	0.0016	0.0018		
ANIONS				
F	0.0886	0.0090		
Cl	5.8684	0.4789		
NO2	0.0279	0.0020		
Br	0.0328	0.0113		
NO3	0.4911	0.0503		
PO4	0.3379	0.0318		
SO4	0.9886	0.0787		
CATIONS				
Na	0.4112	0.2215		
NH4	0.5813	0.1186		
K	4.4678	0.4395		
Ca	0.4322	0.3105		
Mg	0.1115	0.0835		
Organic Carbon				
OC1	12.0287	0.6014		

Source Name	Garden Waste Combustion
Source Code	5001

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
OC2	9.6518	0.4826		
OC3	10.0349	0.5017		
OC4	4.8294	0.2415		
OP	8.2413	0.4121		
Total OC	44.7861	2.2393		
Elemental Carbon				
EC1	16.9844	0.8492		
EC2	0.4914	0.0246		
EC3	0.2429	0.0121		
Total EC	17.7188	0.8859		
Total Carbon	62.5049	3.1252		
Identified percentage of total mass	84.9494	11.0787		
Molecular Marker				
n- Hentriacontane	0.0056	0.0006		
n-Tritriacontane	0.0056	0.0006		
n- Pentatriacontane	0.0056	0.0006		
Hexadecanamide	0.0056	0.0006		
Octadecanamide	0.0056	0.0006		
Benzo[b]fluoranthene	0.0056	0.0006		
Benzo[k]fluoranthene	0.1259	0.0126		
Benzo[e]pyrene	0.0056	0.0006		
ndeno[1,2,3-cd]fluoranthene	0.0056	0.0006		
Indeno[1,2,3-cd]pyrene	0.0056	0.0006		
Picene	0.0056	0.0006		
Coronene	0.3171	0.0317		

Source Name	Kerosene Combustion (Domestic)
Source Code	7

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.1674	0.1286	0.1412	0.1759
Al	0.0360	0.0075	1.1585	0.0883
As	0.2039	0.1196	0.2097	0.1641
Ba	0.0284	0.0051	0.2039	0.0183
Ca	0.0380	0.0273	32.8701	2.3545
Cd	0.0108	0.0076	0.0412	0.0125
Ce	0.3951	0.2839	0.4805	0.3951
Co	0.0441	0.0317	0.0644	0.0447
Cr	0.0491	0.0134	10.1592	0.7300
Cu	0.1263	0.0199	4.2043	0.3112
Fe	0.3607	0.0486	92.6787	6.5831
Ga	0.1348	0.2078	0.4512	0.3058
Hf	0.1395	0.0849	0.1637	0.1177
Hg	0.0444	0.0319	0.1482	0.0498
In	1.3370	0.3137	16.7057	1.4609
K	1.2834	1.0522	2.4533	1.5140
Lu	0.0042	0.0033	0.0054	0.0046
Mg	0.1227	0.0275	0.8418	0.0842
Mn	0.0102	0.0049	1.0613	0.0803
Mo	0.0788	0.0365	0.1229	0.0520
Na	0.3116	0.1571	3.6194	0.4225
Ni	0.2822	0.2171	6.5192	0.7106
P	0.3688	0.1806	0.9999	0.2819
Pb	0.2373	0.2099	0.5272	0.3057
Pd	0.1386	0.1133	0.2925	0.1649
Sb	0.1781	0.1154	0.2312	0.1610
Sc	0.0053	0.0052	0.0086	0.0073
Se	0.6137	0.1323	0.5104	0.1650
Si	0.3767	0.0853	0.5868	0.1240
Sm	0.1825	0.1311	0.2565	0.1843
Sn	0.4017	0.0787	1.0407	0.1411
Sr	0.0014	0.0011	0.0824	0.0071
Th	0.1874	0.0484	0.1751	0.0629
Ti	0.0265	0.0089	0.1770	0.0218
V	0.3148	0.0743	0.6331	0.1153
W	0.2976	0.1843	0.4851	0.2628
Y	0.0139	0.0086	0.0249	0.0124
Zn	1.7006	0.1243	14.7051	1.0454

Source Name	Kerosene Combustion (Domestic)
Source Code	7

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Zr	0.0278	0.0146	0.0423	0.0209
ANIONS				
F	0.2069	0.0502	16.6231	1.2912
Cl	7.2473	1.4057	12.6493	4.5572
NO2	0.4976	0.0352	1.2419	0.0878
Br	0.1650	0.1185	0.6496	0.4667
NO3	0.3230	0.2320	8.1998	1.3779
PO4	0.1520	0.1092	0.5985	0.4299
SO4	12.4134	0.9792	39.0546	3.1637
CATIONS				
Na	3.0348	2.4707	14.8201	9.8763
NH4	1.4695	1.0557	5.4688	4.1407
K	2.6402	1.8967	10.3970	7.4693
Ca	10.4841	3.9021	26.6147	14.5248
Mg	3.0876	1.0671	6.3266	3.8694
Organic Carbon				
OC1	25.8752	1.2938	18.5636	0.9282
OC2	26.8054	1.3403	17.3896	0.8695
OC3	26.1067	1.3053	16.9920	0.8496
OC4	11.6864	0.5843	6.3552	0.3178
OP	6.4257	0.3213	3.2773	0.1639
Total OC	96.8993	4.8450	62.5778	3.1289
Elemental Carbon				
EC1	42.3574	2.1179	26.9907	1.3495
EC2	7.9898	0.3995	3.9691	0.1985
EC3	2.3284	0.1164	1.0095	0.0505
Total EC	52.6756	2.6338	31.9693	1.5985
Total Carbon	149.5749	7.4787	94.5470	4.7274
Identified percentage of total mass	201.5776		432.2735	
Molecular Marker				
n- Hentriacontane	0.0054	0.0005		
n-Tritriacontane	0.0054	0.0005		
n- Pentatriacontane	0.0054	0.0005		
Hexadecanamide	0.0054	0.0005		
Octadecanamide	0.0054	0.0005		

Source Name	Kerosene Combustion (Domestic)
Source Code	7

Profile **PM10 and PM2.5**
Location **Laboratory**
Control **Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Benzo[b]fluoranthene	0.0054	0.0005		
Benzo[k]fluoranthene	0.0054	0.0005		
Benzo[e]pyrene	0.0054	0.0005		
Indeno[1,2,3-cd]fluoranthene	0.0054	0.0005		
Indeno[1,2,3-cd]pyrene	0.0054	0.0005		
Picene	0.0054	0.0005		
Coronene	0.0054	0.0005		

Source Name	Kerosene Generator-80 % load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0032	0.0076		
Al	0.0078	0.0008		
As	0.0084	0.0072		
Ba	0.0293	0.0022		
Ca	1.7128	0.1224		
Cd	0.0019	0.0006		
Ce	0.0246	0.0176		
Co	0.0027	0.0020		
Cr	0.0061	0.0010		
Cu	0.0150	0.0017		
Fe	0.8503	0.0614		
Ga	0.0074	0.0129		
Hf	0.0078	0.0052		
Hg	0.0028	0.0020		
In	0.1099	0.0211		
K	0.1128	0.0672		
Lu	0.0003	0.0002		
Mg	0.0128	0.0020		
Mn	0.0050	0.0006		
Mo	0.0030	0.0022		
Na	0.0674	0.0127		
Ni	0.0081	0.0130		
P	0.0150	0.0108		
Pb	0.0762	0.0166		
Pd	0.0099	0.0071		
Sb	0.0236	0.0079		
Sc	0.0001	0.0003		
Se	0.0092	0.0065		
Si	0.1503	0.0139		
Sm	0.0113	0.0081		
Sn	1.6794	0.1214		
Sr	0.0018	0.0002		
Th	0.0027	0.0025		
Ti	0.0072	0.0009		
V	0.0052	0.0037		
W	0.0157	0.0113		
Y	0.0007	0.0005		

Source Name	Kerosene Generator-80 % load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Zn	0.1614	0.0117		
Zr	0.0010	0.0009		
ANIONS				
F	0.0372	0.0050		
Cl	0.4620	0.0959		
NO2	0.0169	0.0003		
Br	0.0067	0.0082		
NO3	0.2782	0.0337		
PO4	0.0109	0.0078		
SO4	0.2015	0.0222		
CATIONS				
Na	0.3605	0.1844		
NH4	0.0158	0.0709		
K	0.1529	0.1338		
Ca	3.3449	0.4389		
Mg	0.0965	0.0693		
Organic Carbon				
OC1	39.1658	1.9583		
OC2	19.5007	0.9750		
OC3	3.9160	0.1958		
OC4	0.8217	0.0411		
OP	0.0000	0.0000		
Total OC	63.4043	3.1702		
Elemental Carbon				
EC1	0.7424	0.0371		
EC2	0.0000	0.0000		
EC3	0.0000	0.0000		
Total EC	0.7424	0.0371		
Total Carbon	64.1467	3.2073		
Identified percentage of total mass	74.3007	4.8657		

Molecular marker				
n- Hentriacontane	0.0026	0.0003		
n-Tritriacontane	0.0026	0.0003		
n- Pentatriacontane	0.0026	0.0003		

Source Name	Kerosene Generator-80 % load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Hexadecanamide	0.0026	0.0003		
Octadecanamide	0.0026	0.0003		
Benzo[b]fluoranthene	0.0026	0.0003		
Benzo[k]fluoranthene	0.0026	0.0003		
Benzo[e]pyrene	0.0026	0.0003		
Indeno[1,2,3-cd]fluoranthene	0.0026	0.0003		
Indeno[1,2,3-cd]pyrene	0.0026	0.0003		
Picene	0.0026	0.0003		
Coronene	0.0026	0.0003		

Source Name	Kerosene Generator-Full Load
Source Code	20

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0310	0.0265		
Al	0.0462	0.0041		
As	0.0235	0.0238		
Ba	0.1788	0.0132		
Ca	4.9278	0.3522		
Cd	0.0132	0.0023		
Ce	0.0822	0.0590		
Co	0.0092	0.0066		
Cr	0.0286	0.0039		
Cu	0.0860	0.0082		
Fe	7.1322	0.5080		
Ga	0.0339	0.0435		
Hf	0.0232	0.0173		
Hg	0.0092	0.0066		
In	0.6931	0.0909		
K	0.8430	0.2513		
Lu	0.0010	0.0007		
Mg	0.1192	0.0122		
Mn	0.0373	0.0033		
Mo	0.0101	0.0072		
Na	0.6939	0.0737		
Ni	0.0292	0.0436		
P	0.0502	0.0361		
Pb	0.6324	0.0794		
Pd	0.0331	0.0238		
Sb	0.0338	0.0238		
Sc	0.0010	0.0011		
Se	0.0304	0.0219		
Si	0.4440	0.0427		
Sm	0.0380	0.0273		
Sn	5.0797	0.3672		
Sr	0.0060	0.0006		
Th	0.0082	0.0083		
Ti	0.0445	0.0044		

Source Name	Kerosene Generator-Full Load
Source Code	20

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
V	0.0174	0.0125		
W	0.0526	0.0378		
Y	0.0025	0.0018		
Zn	0.9494	0.0680		
Zr	0.0048	0.0030		
ANIONS				
F	0.0842	0.0139		
Cl	0.7437	0.2677		
NO2	0.0754	0.0012		
Br	0.0561	0.0287		
NO3	0.0754	0.0542		
PO4	0.0350	0.0255		
SO4	0.8044	0.0826		
CATIONS				
Na	0.5883	0.5703		
NH4	0.0312	0.2303		
K	0.5700	0.4406		
Ca	11.0094	1.4386		
Mg	0.3148	0.2262		
Organic Carbon				
OC1	35.6235	1.7812		
OC2	18.6342	0.9317		
OC3	9.5227	0.4761		
OC4	2.6404	0.1320		
OP	0.0000	0.0000		
Total OC	66.4208	3.3210		
Elemental Carbon				
EC1	4.8912	0.2446		
EC2	0.0433	0.0022		
EC3	0.0216	0.0011		
Total EC	4.9561	0.2478		
Total Carbon	71.3769	3.5688		
Identified percentage of total mass	108.2445			

Source Name	Kerosene Generator-Full Load
Source Code	20

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Molecular Markers				
n- Hentriacontane	0.0616	0.0062		
n-Tritriacontane	0.0935	0.0093		
n- Pentatriacontane	0.0042	0.0004		
Hexadecanamide	0.1901	0.0190		
Octadecanamide	0.1444	0.0144		
Benzo[b]fluoranthene	0.0042	0.0004		
Benzo[k]fluoranthene	0.0145	0.0014		
Benzo[e]pyrene	0.0042	0.0004		
deno[1,2,3-cd]fluoranther	0.0341	0.0034		
Indeno[1,2,3-cd]pyrene	0.0042	0.0004		
Picene	0.0042	0.0004		
Coronene	0.0042	0.0004		

Source Name	Kerosene Generator-No Load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Elements				
Ag	0.0009	0.0009		
Al	0.0009	0.0001		
As	0.0011	0.0008		
Ba	0.0046	0.0003		
Ca	0.2446	0.0174		
Cd	0.0002	0.0001		
Ce	0.0027	0.0020		
Co	0.0003	0.0002		
Cr	0.0010	0.0001		
Cu	0.0022	0.0002		
Fe	0.1295	0.0093		
Ga	0.0018	0.0015		
Hf	0.0008	0.0006		
Hg	0.0003	0.0002		
In	0.0178	0.0027		
K	0.0149	0.0076		
Lu	0.0000	0.0000		
Mg	0.0002	0.0001		
Mn	0.0005	0.0001		
Mo	0.0003	0.0002		
Na	0.0015	0.0010		
Ni	0.0006	0.0014		
P	0.0017	0.0012		
Pb	0.0157	0.0023		
Pd	0.0011	0.0008		
Sb	0.0017	0.0008		
Sc	0.0000	0.0000		
Se	0.0010	0.0007		
Si	0.0391	0.0031		
Sm	0.0013	0.0009		
Sn	0.3301	0.0236		
Sr	0.0002	0.0000		
Th	0.0002	0.0003		
Ti	0.0005	0.0001		
V	0.0006	0.0004		
W	0.0017	0.0012		
Y	0.0001	0.0001		

Source Name	Kerosene Generator-No Load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Zn	0.0273	0.0020		
Zr	0.0002	0.0001		
ANIONS				
F	0.0004	0.0003		
Cl	0.0059	0.0073		
NO2	0.0023	0.0001		
Br	0.0012	0.0008		
NO3	0.0023	0.0017		
PO4	0.0011	0.0008		
SO4	0.0774	0.0062		
CATIONS				
Na	0.0221	0.0177		
NH4	0.0157	0.0078		
K	0.0189	0.0136		
Ca	0.3235	0.0432		
Mg	0.0097	0.0069		
Organic Carbon				
OC1	35.4872	1.7744		
OC2	12.0902	0.6045		
OC3	0.4095	0.0205		
OC4	0.0000	0.0000		
OP	0.0000	0.0000		
Total OC	47.9869	2.3993		
Elemental Carbon				
EC1	0.0000	0.0000		
EC2	0.0000	0.0000		
EC3	0.0000	0.0000		
Total EC	0.0000	0.0000		
Total Carbon	47.9869	2.3993		

Identified percentage of total mass	49.3166	2.5902		

Molecular Marker				
n- Hentriacontane	0.0066	0.0007		
n-Tritriacontane	0.0012	0.0001		
n- Pentatriacontane	0.0012	0.0001		

Source Name	Kerosene Generator-No Load	
Source Code	20	

Profile for	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMy	Uncertainty
	x=10µm	± (%)	y=2.5µm	± (%)
Hexadecanamide	0.0012	0.0001		
Octadecanamide	0.0394	0.0039		
Benzo[b]fluoranthene	0.0126	0.0013		
Benzo[k]fluoranthene	0.0094	0.0009		
Benzo[e]pyrene	0.0051	0.0005		
Indeno[1,2,3-cd]fluoranthene	0.0128	0.0013		
Indeno[1,2,3-cd]pyrene	0.0141	0.0014		
Picene	0.0499	0.0050		
Coronene	0.0012	0.0001		

Source Name	Leather Waste Burning
Source Code	13

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0063	0.0062		
Al	0.0024	0.0004		
As	0.0199	0.0064		
Ba	0.0016	0.0003		
Ca	0.0207	0.0026		
Cd	0.0030	0.0005		
Ce	0.0193	0.0139		
Co	0.0022	0.0016		
Cr	0.0010	0.0006		
Cu	0.0139	0.0015		
Fe	0.0120	0.0020		
Ga	0.0147	0.0106		
Hf	0.0044	0.0040		
Hg	0.0022	0.0016		
In	0.0174	0.0125		
K	0.0518	0.0509		
Lu	0.0002	0.0002		
Mg	0.0015	0.0011		
Mn	0.0004	0.0002		
Mo	0.0035	0.0018		
Na	0.1211	0.0143		
Ni	0.0114	0.0105		
P	0.0118	0.0085		
Pb	0.2744	0.0273		
Pd	0.0059	0.0055		
Sb	0.0078	0.0056		
Sc	0.0005	0.0003		
Se	0.0166	0.0057		
Si	0.1393	0.0122		
Sm	0.0089	0.0064		
Sn	0.0271	0.0043		

Source Name	Leather Waste Burning
Source Code	13

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sr	0.0004	0.0001		
Th	0.0089	0.0024		
Ti	0.0009	0.0004		
V	0.0041	0.0029		
W	0.0124	0.0089		
Y	0.0005	0.0004		
Zn	0.0004	0.0003		
Zr	0.0053	0.0009		
ANIONS				
F	0.0333	0.0040		
Cl	3.2278	0.2659		
NO2	0.0020	0.0001		
Br	0.0179	0.0066		
NO3	0.0436	0.0133		
PO4	0.0077	0.0056		
SO4	1.2101	0.0906		
CATIONS				
Na	0.9036	0.1691		
NH4	1.2236	0.1273		
K	0.6608	0.1274		
Ca	0.3773	0.1897		
Mg	0.0686	0.0493		
Organic Carbon				
OC1	26.5869	1.3293		
OC2	17.7769	0.8888		
OC3	6.9948	0.3497		
OC4	1.8712	0.0936		
OP	2.5835	0.1292		
Total OC	55.8132	2.7907		
Elemental Carbon				
EC1	7.0753	0.3538		
EC2	0.2295	0.0115		

Source Name	Leather Waste Burning
Source Code	13

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC3	0.0504	0.0025		
Total EC	7.3552	0.3678		
Total Carbon	63.1684	3.1584		
Identified percentage of total mass	71.8009			
Molecular Marker				
n- Hentriacontane	0.0654	0.0065		
n-Tritriacontane	0.0955	0.0096		
n- Pentatriacontane	0.1765	0.0177		
Hexadecanamide	0.5849	0.0585		
Octadecanamide	0.2585	0.0259		
Benzo[b]fluoranthene	0.1697	0.0170		
Benzo[k]fluoranthene	0.1430	0.0143		
Benzo[e]pyrene	0.0919	0.0092		
Indeno[1,2,3-cd]fluoranthene	0.2172	0.0217		
Indeno[1,2,3-cd]pyrene	0.1596	0.0160		
Picene	0.7472	0.0747		
Coronene	0.2339	0.0234		

Source Name	Liquified Petroleum Gas Combustion
Source Code	4

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.1047	0.0752		
Al	0.0614	0.0069		
As	0.3278	0.0814		
Ba	0.0030	0.0021		
Ca	0.0221	0.0159		
Cd	0.0393	0.0065		
Ce	0.2298	0.1651		
Co	0.0257	0.0184		
Cr	0.0093	0.0067		
Cu	0.0057	0.0075		
Fe	0.2679	0.0309		
Ga	0.0235	0.1180		
Hf	0.0677	0.0487		
Hg	0.0258	0.0185		
In	0.2069	0.1487		
K	0.0755	0.5773		
Lu	0.0027	0.0019		
Mg	0.0175	0.0126		
Mn	0.0179	0.0035		
Mo	0.0873	0.0236		
Na	0.1227	0.0881		
Ni	0.0556	0.1206		
P	0.1404	0.1009		
Pb	0.4458	0.1390		
Pd	0.0926	0.0666		
Sb	0.0925	0.0665		
Sc	0.0043	0.0031		
Se	0.3599	0.0769		
Si	0.6990	0.0794		
Sm	0.1062	0.0763		
Sn	0.2658	0.0465		
Sr	0.0009	0.0007		
Th	0.0027	0.0222		
Ti	0.0428	0.0068		
V	0.0488	0.0350		
W	0.1472	0.1058		
Y	0.0005	0.0046		

Source Name	Liquified Petroleum Gas Combustion
Source Code	4

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Zn	0.0049	0.0035		
Zr	0.0922	0.0131		
ANIONS				
F	0.2542	0.0449		
Cl	1.1507	0.8267		
NO2	0.2539	0.0180		
Br	0.1297	0.0932		
NO3	0.2539	0.1824		
PO4	0.2542	0.0932		
SO4	7.7401	0.6274		
CATIONS				
Na	2.7270	1.9591		
NH4	1.0593	0.8249		
K	2.0759	1.4914		
Ca	1.1017	2.6772		
Mg	1.0601	0.7616		
Organic Carbon				
OC1	6.6805	0.3340		
OC2	6.8629	0.3431		
OC3	5.2630	0.2631		
OC4	2.4140	0.1207		
OP	1.9929	0.0996		
Total OC	23.2133	1.1607		
Elemental Carbon				
EC1	1.8666	0.0933		
EC2	0.7438	0.0372		
EC3	0.2105	0.0105		
Total EC	2.8210	0.1410		
Total Carbon	26.0342	1.3017		
Identified percentage of total mass	48.4413			
Molecular Marker				
n- Hentriacontane	0.0548	0.0055		
n-Tritriacontane	0.0548	0.0055		
n- Pentatriacontane	0.0548	0.0055		

Source Name	Liquified Petroleum Gas Combustion
Source Code	4

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Hexadecanamide	1.7244	0.1724		
Octadecanamide	0.0548	0.0055		
Benzo[b]fluoranthene	9.5898	0.9590		
Benzo[k]fluoranthene	0.0548	0.0055		
Benzo[e]pyrene	0.0548	0.0055		
ndeno[1,2,3-cd]fluoranthen	0.0548	0.0055		
Indeno[1,2,3-cd]pyrene	0.0548	0.0055		
Picene	0.0548	0.0055		
Coronene	0.0548	0.0055		

Source Name	Low Sulphur Heavy Stock Metal	
Source Code	6000	

Profile PM10
Location Chennai
Control Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0211	0.0102	0.0100	0.0090
Al	0.0144	0.0013	0.0250	0.0021
As	0.2266	0.0230	0.2180	0.0218
Ba	0.0126	0.0011	0.0101	0.0009
Ca	2.2648	0.1615	2.3683	0.1687
Cd	0.0094	0.0011	0.0094	0.0011
Ce	0.0487	0.0224	0.0277	0.0201
Co	0.0068	0.0026	0.0034	0.0023
Cr	0.0180	0.0019	0.1511	0.0113
Cu	0.0214	0.0023	0.0098	0.0015
Fe	0.8213	0.0594	1.6627	0.1188
Ga	0.0118	0.0157	0.0081	0.0146
Hf	0.0174	0.0068	0.0153	0.0063
Hg	0.0136	0.0030	0.0031	0.0023
In	0.1096	0.0241	0.1901	0.0287
K	0.0993	0.0795	0.0877	0.0744
Lu	0.0003	0.0002	0.0017	0.0003
Mg	0.0862	0.0073	0.1227	0.0098
Mn	0.0107	0.0010	0.0223	0.0018
Mo	0.0154	0.0033	0.0093	0.0028
Na	0.1367	0.0192	0.3416	0.0325
Ni	1.5858	0.1234	1.4181	0.1109
P	0.1514	0.0213	0.0343	0.0132
Pb	0.0266	0.0163	0.0750	0.0183
Pd	0.0199	0.0091	0.0108	0.0081
Sb	0.0120	0.0086	0.0113	0.0081
Sc	0.0009	0.0004	0.0008	0.0004
Se	0.0299	0.0090	0.0243	0.0083
Si	0.1259	0.0127	0.0906	0.0100
Sm	0.0138	0.0099	0.0129	0.0093
Sn	0.1311	0.0129	0.0574	0.0075
Sr	0.0038	0.0003	0.0055	0.0004
Th	0.0036	0.0030	0.0101	0.0032
Ti	0.1124	0.0084	0.1368	0.0101

Source Name	Low Sulphur Heavy Stock Metal	
Source Code	6000	

Profile PM10
Location Chennai
Control Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.5754	0.0438	0.3895	0.0305
W	0.0251	0.0140	0.0286	0.0135
Y	0.0019	0.0007	0.0012	0.0006
Zn	0.2042	0.0147	0.2210	0.0159
Zr	0.0034	0.0012	0.0069	0.0013
ANIONS				
F	0.0444	0.0057	0.0545	0.0064
Cl	0.1806	0.0873	0.4256	0.0977
NO2	0.0257	0.0018	0.0240	0.0017
Br	0.0131	0.0094	0.0123	0.0088
NO3	0.5067	0.0496	0.7638	0.0678
PO4	0.0851	0.0130	0.0430	0.0099
SO4	22.1346	1.5728	17.4748	1.2428
CATIONS				
Na	0.4401	0.2071	0.5182	0.1993
NH4	1.0314	0.1394	1.0443	0.1354
K	0.2100	0.1508	0.1450	0.1382
Ca	1.2231	0.3320	0.9865	0.3010
Mg	0.1072	0.0770	0.0902	0.0714
Organic Carbon				
OC1	4.8105	0.2405	3.6664	0.1833
OC2	24.7790	1.2390	14.4724	0.7236
OC3	8.1379	0.4069	12.9711	0.6486
OC4	6.2858	0.3143	4.4063	0.2203
OP	1.3846	0.0692	1.5285	0.0764
Total OC	45.3977	2.2699	37.0446	1.8522
Elemental Carbon				
EC1	2.8657	0.1433	3.1747	0.1587
EC2	0.8781	0.0439	0.6740	0.0337
EC3	0.1467	0.0073	0.2805	0.0140
Total EC	3.8905	0.1945	4.1291	0.2065
Total Carbon	49.2882	2.4644	41.1737	2.0587
Identified percentage of total mass	82.2834		70.5883	

Source Name	Low Sulphur Heavy Stock Metal	
Source Code	6000	

Profile **PM10**
Location **Chennai**
Control **Uncontrolled**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Marker				
n- Hentriacontane	0.0081	0.0008		
n-Tritriacontane	0.0031	0.0003		
n- Pentatriacontane	0.0031	0.0003		
Hexadecanamide	0.0031	0.0003		
Octadecanamide	0.0031	0.0003		
Benzo[b]fluoranthene	0.0031	0.0003		
Benzo[k]fluoranthene	0.0031	0.0003		
Benzo[e]pyrene	0.0031	0.0003		
deno[1,2,3-cd]fluoranthe	0.0031	0.0003		
Indeno[1,2,3-cd]pyrene	0.0031	0.0003		
Picene	0.0031	0.0003		
Coronene	0.0031	0.0003		

Source Name	Marine Aerosol
Source Code	26

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0171	0.0123		
Al	0.0661	0.0050		
As	0.0170	0.0113		
Ba	0.0801	0.0059		
Ca	7.2331	0.5132		
Cd	0.0111	0.0014		
Ce	0.0377	0.0271		
Co	0.0042	0.0030		
Cr	0.0201	0.0023		
Cu	0.0150	0.0021		
Fe	5.9553	0.4228		
Ga	0.0287	0.0206		
Hf	0.0111	0.0080		
Hg	0.0042	0.0030		
In	0.9815	0.0869		
K	0.6493	0.1305		
Lu	0.0004	0.0003		
Mg	0.5953	0.0435		
Mn	0.0631	0.0048		
Mo	0.0046	0.0033		
Na	0.6687	0.0575		
Ni	0.0260	0.0206		
P	0.0230	0.0165		
Pb	0.2573	0.0342		
Pd	0.0152	0.0109		
Sb	0.0090	0.0106		
Sc	0.0006	0.0005		
Se	0.0140	0.0100		
Si	0.3255	0.0275		
Sm	0.0174	0.0125		
Sn	4.4815	0.3205		
Sr	0.0155	0.0012		
Th	0.0036	0.0038		
Ti	0.0798	0.0062		

Source Name	Marine Aerosol
Source Code	26

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0080	0.0057		
W	0.0241	0.0173		
Y	0.0011	0.0008		
Zn	1.0423	0.0741		
Zr	0.0019	0.0014		
ANIONS				
F	0.0198	0.0142		
Cl	1.7291	0.4291		
NO2	0.7026	0.0497		
Br	0.0565	0.0406		
NO3	7.5368	0.5873		
PO4	0.0520	0.0374		
SO4	6.0280	0.4603		
CATIONS				
Na	1.9611	0.8947		
NH4	1.2787	0.4043		
K	0.9035	0.6491		
Ca	17.6988	2.2108		
Mg	0.4614	0.3315		
Organic Carbon				
OC1	7.8272	0.3914		
OC2	12.9961	0.6498		
OC3	14.6699	0.7335		
OC4	4.8243	0.2412		
OP	0.6892	0.0345		
Total OC	41.0067	2.0503		
Elemental Carbon				
EC1	4.3074	0.2154		
EC2	0.3200	0.0160		
EC3	0.4184	0.0209		
Total EC	5.0458	0.2523		
Total Carbon	46.0525	2.3026		
Identified percentage of total mass	107.2904			

Molecular Marker				
n- Hentriacontane	0.0129	0.0013		

Source Name	Marine Aerosol
Source Code	26

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
n-Tritriacontane	0.0022	0.0002		
n- Pentatriacontane	0.0022	0.0002		
Hexadecanamide	0.0022	0.0002		
Octadecanamide	0.0022	0.0002		
Benzo[b]fluoranthene	0.0022	0.0002		
Benzo[k]fluoranthene	0.0022	0.0002		
Benzo[e]pyrene	0.0022	0.0002		
ndeno[1,2,3-cd]fluoranthene	0.0022	0.0002		
Indeno[1,2,3-cd]pyrene	0.0022	0.0002		
Picene	0.0022	0.0002		
Coronene	0.0022	0.0002		

Source Name	Medical Waste Incineration
Source Code	17

Profile PM10
Location Kanpur
Control Wet Scrubber

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0299	0.0091		
Al	0.0091	0.0009		
As	0.0101	0.0073		
Ba	0.0042	0.0005		
Ca	0.6011	0.0436		
Cd	0.0007	0.0005		
Ce	0.0022	0.0165		
Co	0.0027	0.0020		
Cr	0.0158	0.0016		
Cu	0.0035	0.0010		
Fe	1.5669	0.1119		
Ga	0.0069	0.0128		
Hf	0.0162	0.0057		
Hg	0.0028	0.0020		
In	0.1625	0.0242		
K	0.1327	0.0681		
Lu	0.0003	0.0002		
Mg	0.0672	0.0057		
Mn	0.0104	0.0009		
Mo	0.0030	0.0022		
Na	0.0767	0.0131		
Ni	0.0135	0.0133		
P	0.0150	0.0108		
Pb	2.9461	0.2172		
Pd	0.0036	0.0068		
Sb	0.0099	0.0071		
Sc	0.0018	0.0004		
Se	0.0091	0.0065		
Si	0.4628	0.0356		
Sm	0.0113	0.0081		
Sn	0.3621	0.0281		

Source Name	Medical Waste Incineration
Source Code	17

Profile PM10
Location Kanpur
Control Wet Scrubber

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Sr	0.0014	0.0002		
Th	0.0035	0.0025		
Ti	0.0788	0.0059		
V	0.0718	0.0079		
W	0.0157	0.0113		
Y	0.0007	0.0005		
Zn	0.0678	0.0050		
Zr	0.0046	0.0011		
ANIONS				
F	0.0639	0.0078		
Cl	5.5128	0.4656		
NO2	0.0843	0.0060		
Br	0.0168	0.0121		
NO3	3.7031	0.2778		
PO4	0.0155	0.0111		
SO4	0.3735	0.0375		
CATIONS				
Na	1.9204	0.3457		
NH4	0.1500	0.1078		
K	0.2439	0.1923		
Ca	0.5106	0.3669		
Mg	0.1377	0.0989		
Organic Carbon				
OC1	30.3415	1.5171		
OC2	33.3912	1.6696		
OC3	9.8201	0.4910		
OC4	0.8580	0.0429		
OP	1.6255	0.0813		
Total OC	76.0362	3.8018		
Elemental Carbon				
EC1	1.3293	0.0665		
EC2	0.3050	0.0152		

Source Name	Medical Waste Incineration
Source Code	17

Profile **PM10**
Location **Kanpur**
Control **Wet Scrubber**

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC3	0.2057	0.0103		
Total EC	1.8400	0.0920		
Total Carbon	77.8762	3.8938		
Identified percentage of total mass	97.4132			
Molecular Marker				
n- Hentriacontane	0.0397	0.0040		
n-Tritriacontane	0.0094	0.0009		
n- Pentatriacontane	0.0094	0.0009		
Hexadecanamide	0.0094	0.0009		
Octadecanamide	0.0094	0.0009		
Benzo[b]fluoranthene	0.0094	0.0009		
Benzo[k]fluoranthene	0.0094	0.0009		
Benzo[e]pyrene	0.0094	0.0009		
leno[1,2,3-cd]fluoranthe	0.0094	0.0009		
Indeno[1,2,3-cd]pyrene	0.0791	0.0079		
Picene	0.6711	0.0671		
Coronene	0.0094	0.0009		

Source Name	Medical Waste Incineration
Source Code	17

Profile	**PM10**
Location	**Kanpur**
Control	**Uncontrolled**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0116	0.0084		
Al	0.0069	0.0008		
As	0.0426	0.0094		
Ba	0.0052	0.0006		
Ca	0.3219	0.0240		
Cd	0.0007	0.0005		
Ce	0.0563	0.0201		
Co	0.0029	0.0020		
Cr	0.0108	0.0014		
Cu	0.0073	0.0012		
Fe	0.4160	0.0306		
Ga	0.0136	0.0137		
Hf	0.0156	0.0059		
Hg	0.0033	0.0021		
In	0.0421	0.0176		
K	0.2430	0.0770		
Lu	0.0003	0.0002		
Mg	0.0167	0.0023		
Mn	0.0063	0.0007		
Mo	0.0067	0.0025		
Na	0.2164	0.0230		
Ni	0.0086	0.0135		
P	0.0257	0.0118		
Pb	0.3067	0.0322		
Pd	0.0103	0.0074		
Sb	0.0173	0.0078		
Sc	0.0011	0.0004		
Se	0.0394	0.0086		
Si	0.1527	0.0140		
Sm	0.0118	0.0085		

Source Name	Medical Waste Incineration
Source Code	17

Profile	**PM10**
Location	**Kanpur**
Control	**Uncontrolled**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sn	0.1862	0.0158		
Sr	0.0011	0.0001		
Th	0.0037	0.0026		
Ti	0.0459	0.0036		
V	0.0339	0.0056		
W	0.0329	0.0127		
Y	0.0008	0.0005		
Zn	0.1040	0.0076		
Zr	0.0045	0.0011		
ANIONS				
F	0.0465	0.0057		
Cl	9.6275	0.7334		
NO2	0.0317	0.0022		
Br	0.0485	0.0108		
NO3	2.0148	0.1541		
PO4	0.0112	0.0081		
SO4	0.2131	0.0233		
CATIONS				
Na	0.2557	0.1837		
NH4	4.2742	0.3570		
K	0.1141	0.1357		
Ca	0.2104	0.2567		
Mg	0.0994	0.0714		
Organic Carbon				
OC1	22.1436	1.1072		
OC2	16.6588	0.8329		
OC3	10.3381	0.5169		
OC4	2.8101	0.1405		
OP	3.1180	0.1559		
Total OC	55.0686	2.7534		
Elemental Carbon				

Source Name	Medical Waste Incineration
Source Code	17

Profile	**PM10**
Location	**Kanpur**
Control	**Uncontrolled**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
EC1	6.9844	0.3492		
EC2	0.8783	0.0439		
EC3	0.5747	0.0287		
Total EC	8.4374	0.4219		
Total Carbon	63.5060	3.1753		
Identified percentage of total mass	82.8857			
Molecular Marker				
n- Hentriacontane	0.0288	0.0029		
n-Tritriacontane	0.0131	0.0013		
n- Pentatriacontane	0.0131	0.0013		
Hexadecanamide	0.0131	0.0013		
Octadecanamide	0.5538	0.0554		
Benzo[b]fluoranthene	0.1053	0.0105		
Benzo[k]fluoranthene	0.0401	0.0040		
Benzo[e]pyrene	0.0823	0.0082		
Indeno[1,2,3-cd]fluoranthene	0.1355	0.0135		
Indeno[1,2,3-cd]pyrene	0.0131	0.0013		
Picene	0.0131	0.0013		
Coronene	0.6537	0.0654		

Source Name	Paint Spray Booth
Source Code	31

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0010	0.0010		
Al	0.0008	0.0008		
As	0.0009	0.0009		
Ba	0.0044	0.0044		
Ca	0.1166	0.1166		
Cd	0.0001	0.0001		
Ce	0.0022	0.0022		
Co	0.0002	0.0002		
Cr	0.0008	0.0008		
Cu	0.0001	0.0001		
Fe	0.1098	0.1098		
Ga	0.0001	0.0001		
Hf	0.0001	0.0001		
Hg	0.0002	0.0002		
In	0.0213	0.0213		
K	0.0093	0.0093		
Lu	0.0000	0.0000		
Mg	0.0002	0.0002		
Mn	0.0006	0.0006		
Mo	0.0003	0.0003		
Na	0.0430	0.0430		
Ni	0.0025	0.0025		
P	0.0068	0.0068		
Pb	0.0070	0.0070		
Pd	0.0009	0.0009		
Sb	0.0033	0.0033		
Sc	0.0000	0.0000		
Se	0.0008	0.0008		
Si	0.0470	0.0470		
Sm	0.0010	0.0010		
Sn	0.2509	0.2509		
Sr	0.0001	0.0001		
Th	0.0003	0.0003		
Ti	0.0559	0.0559		

Source Name	Paint Spray Booth
Source Code	31

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0005	0.0005		
W	0.0014	0.0014		
Y	0.0001	0.0001		
Zn	0.0260	0.0260		
Zr	0.0051	0.0051		
ANIONS				
F	0.0056	0.0006		
Cl	0.0111	0.0080		
NO2	0.0013	0.0001		
Br	0.0012	0.0009		
NO3	0.0043	0.0019		
PO4	0.0035	0.0010		
SO4	0.1334	0.0102		
CATIONS				
Na	0.0060	0.0178		
NH4	0.0111	0.0080		
K	0.0200	0.0144		
Ca	0.3493	0.0461		
Mg	0.0102	0.0073		
Organic Carbon				
OC1	3.0150	0.1508		
OC2	22.7106	1.1355		
OC3	5.7733	0.2887		
OC4	0.7202	0.0360		
OP	5.6509	0.2825		
Total OC	37.8699	1.8935		
Elemental Carbon				
EC1	0.0440	0.0022		
EC2	0.0333	0.0017		
EC3	0.0368	0.0018		
Total EC	0.1141	0.0057		
Total Carbon	37.9840	1.8992		
Identified percentage of total mass	39.2629			

Source Name	Paint Spray Booth
Source Code	31

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Marker				
n- Hentriacontane	0.0254	0.0025		
n-Tritriacontane	0.0254	0.0025		
n- Pentatriacontane	0.0254	0.0025		
Hexadecanamide	0.0254	0.0025		
Octadecanamide	0.0254	0.0025		
Benzo[b]fluoranthene	0.0254	0.0025		
Benzo[k]fluoranthene	0.0254	0.0025		
Benzo[e]pyrene	0.0254	0.0025		
Indeno[1,2,3-cd]fluoranth	0.0254	0.0025		
Indeno[1,2,3-cd]pyrene	0.0254	0.0025		
Picene	0.0254	0.0025		
Coronene	8.2661	0.8266		

Source Name	Paved Road Dust (Composite)- Bangalore
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.001732	0.002004		
Al	0.059680	0.003712		
As	0.005141	0.001893		
Ba	0.036295	0.002195		
Ca	2.887104	0.164475		
Cd	0.001145	0.000411		
Ce	0.006617	0.004493		
Co	0.000692	0.000497		
Cr	0.010074	0.001039		
Cu	0.015579	0.001901		
Fe	4.301438	0.253959		
Ga	0.004110	0.003256		
Hf	0.001826	0.001293		
Hg	0.006558	0.000830		
In	0.044974	0.006398		
K	0.405101	0.038309		
Lu	0.000066	0.000051		
Mg	0.505021	0.028665		
Mn	0.059333	0.003610		
Mo	0.000568	0.000571		
Na	0.054916	0.003040		
Ni	0.004477	0.003443		
P	0.018514	0.004372		
Pb	0.017455	0.057767		
Pd	0.005380	0.002019		
Sb	0.003943	0.001859		
Sc	0.000603	0.000110		
Se	0.002295	0.001789		

Source Name	Paved Road Dust (Composite)- Bangalore
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Si	0.044702	0.003502		
Sm	0.002861	0.002055		
Sn	0.407314	0.025827		
Sr	0.006400	0.000388		
Th	0.001130	0.000684		
Ti	0.103410	0.006648		
V	0.001315	0.000945		
W	0.003967	0.002850		
Y	0.001194	0.000209		
Zn	0.068210	0.004241		
Zr	0.001586	0.000275		
ANIONS				
F	0.006786	0.001556		
Cl	0.183064	0.039673		
NO2	0.008083	0.000572		
Br	0.004979	0.003577		
NO3	0.072552	0.010768		
PO4	0.019624	0.004171		
SO4	0.274216	0.022493		
CATIONS				
Na	0.083258	0.074079		
NH4	0.015636	0.030360		
K	0.085628	0.057567		
Ca	0.983953	0.158394		
Mg	0.040693	0.029234		
Organic Carbon				
OC1	0.143269	0.007163		
OC2	0.830203	0.041510		
OC3	2.624563	0.131228		

Source Name	Paved Road Dust (Composite)- Bangalore
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
OC4	1.489934	0.074497		
OP	0.000000	0.000000		
Total OC	5.087969	0.254398		
Elemental Carbon				
EC1	1.021688	0.051084		
EC2	0.456481	0.022824		
EC3	0.059534	0.002977		
Total EC	1.537703	0.076885		
Total Carbon	6.625672	0.331284		
total mass	17.506869			

Molecular Marker				
n- Hentriacontane	0.012710052	0.001271005		
n-Tritriacontane	0.012710052	0.001271005		
n- Pentatriacontane	0.012710052	0.001271005		
Hexadecanamide	0.012710052	0.001271005		
Octadecanamide	0.012710052	0.001271005		
Benzo[b]fluoranthene	0.125377398	0.01253774		
Benzo[k]fluoranthene	0.012710052	0.001271005		
Benzo[e]pyrene	0.074096982	0.007409698		
Indeno[1,2,3-cd]fluoranthene	0.012710052	0.001271005		
Indeno[1,2,3-cd]pyrene	0.101380932	0.010138093		
Picene	0.435626857	0.043562686		
Coronene	0.012710052	0.001271005		

Source Name	Paved Road Dust- Chennai
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0086	0.0075		
Al	0.0526	0.0068		
As	0.0085	0.0067		
Ba	0.0830	0.0048		
Ca	4.4472	0.2888		
Cd	0.0022	0.0005		
Ce	0.0230	0.0165		
Co	0.0026	0.0018		
Cr	0.0269	0.0024		
Cu	0.0169	0.0018		
Fe	3.7305	0.3729		
Ga	0.0175	0.0123		
Hf	0.0059	0.0048		
Hg	0.0026	0.0022		
In	0.2293	0.0218		
K	0.3710	0.0796		
Lu	0.0003	0.0002		
Mg	0.5098	0.0480		
Mn	0.0503	0.0064		
Mo	0.0022	0.0020		
Na	0.4258	0.0412		
Ni	0.0133	0.0127		
P	0.0345	0.0109		
Pb	0.0656	0.0143		
Pd	0.0139	0.0071		
Sb	0.0231	0.0071		
Sc	0.0004	0.0003		
Se	0.0085	0.0061		
Si	0.6795	0.0470		
Sm	0.0106	0.0076		
Sn	3.1279	0.1483		
Sr	0.0120	0.0008		
Th	0.0048	0.0025		
Ti	0.0861	0.0096		
V	0.0049	0.0035		

Source Name	Paved Road Dust- Chennai
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
W	0.0147	0.0106		
Y	0.0004	0.0005		
Zn	0.3238	0.0143		
Zr	0.0013	0.0008		
ANIONS				
F	0.0073	0.0029		
Cl	0.0953	0.0684		
NO2	0.0232	0.0016		
Br	0.0189	0.0082		
NO3	0.0107	0.0146		
PO4	0.0101	0.0071		
SO4	0.3919	0.0345		
CATIONS				
Na	0.2871	0.1657		
NH4	0.1509	0.0720		
K	0.4792	0.1416		
Ca	2.7918	0.3833		
Mg	0.1394	0.0659		
Organic Carbon				
OC1	0.3393	0.0170		
OC2	2.0410	0.1021		
OC3	6.1664	0.3083		
OC4	3.7389	0.1869		
OP	1.8109	0.0905		
Total OC	14.0965	0.7048		
Elemental Carbon				
EC1	0.3496	0.0175		
EC2	0.7192	0.0360		
EC3	0.0483	0.0024		
Total EC	1.1171	0.0559		
Total Carbon	15.2137	0.7607		
Identified percentage of total mass	34.0615			

Source Name	Paved Road Dust- Chennai
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Marker				
n- Hentriacontane	0.0057	0.0006		
n-Tritriacontane	0.0057	0.0006		
n- Pentatriacontane	0.0057	0.0006		
Hexadecanamide	0.0057	0.0006		
Octadecanamide	0.0057	0.0006		
Benzo[b]fluoranthene	0.0057	0.0006		
Benzo[k]fluoranthene	0.0057	0.0006		
Benzo[e]pyrene	0.0057	0.0006		
Indeno[1,2,3-cd]fluoranthene	0.0057	0.0006		
Indeno[1,2,3-cd]pyrene	0.0057	0.0006		
Picene	0.0057	0.0006		
Coronene	0.0057	0.0006		

Source Name	Paved Road Dust- Delhi
Source Code	52

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0025	0.0024		
Al	0.2345	0.0148		
As	0.0032	0.0022		
Ba	0.0715	0.0050		
Ca	1.3559	0.1233		
Cd	0.0011	0.0003		
Ce	0.0074	0.0053		
Co	0.0008	0.0006		
Cr	0.0686	0.0049		
Cu	0.0796	0.0058		
Fe	5.9873	0.3329		
Ga	0.0033	0.0040		
Hf	0.0019	0.0016		
Hg	0.0080	0.0009		
In	0.0966	0.0110		
K	1.1941	0.0591		
Lu	0.0001	0.0001		
Mg	1.2009	0.0482		
Mn	0.2221	0.0139		
Mo	0.0008	0.0006		
Na	0.3879	0.0223		
Ni	0.0128	0.0044		
P	0.0228	0.0083		
Pb	0.1353	0.0093		
Pd	0.0078	0.0023		
Sb	0.0037	0.0023		
Sc	0.0005	0.0001		

Source Name	Paved Road Dust- Delhi
Source Code	52

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Se	0.0027	0.0020		
Si	0.3882	0.0227		
Sm	0.0034	0.0025		
Sn	0.9370	0.0679		
Sr	0.0230	0.0015		
Th	0.0005	0.0008		
Ti	0.1202	0.0058		
V	0.0016	0.0011		
W	0.0047	0.0034		
Y	0.0009	0.0002		
Zn	0.1314	0.0098		
Zr	0.0001	0.0003		
ANIONS				
F	0.2015	0.0150		
Cl	0.2900	0.0427		
NO2	0.0083	0.0006		
Br	0.0116	0.0035		
NO3	0.0089	0.0060		
PO4	0.0039	0.0028		
SO4	1.3158	0.0956		
CATIONS				
Na	0.2103	0.0709		
NH4	0.0281	0.0267		
K	0.3427	0.0648		
Ca	2.7488	0.2623		
Mg	0.1272	0.0302		
Organic Carbon				
OC1	0.2616	0.0131		

Source Name	Paved Road Dust- Delhi
Source Code	52

Profile	PM10
Location	Laboratory
Controls	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
OC2	1.9070	0.0953		
OC3	3.8527	0.1926		
OC4	3.1597	0.1580		
OP	0.0000	0.0000		
Total OC	9.1809	0.4590		
Elemental Carbon				
EC1	2.1009	0.1050		
EC2	0.3429	0.0171		
EC3	0.3684	0.0184		
Total EC	2.8121	0.1406		
Total Carbon	11.9930	0.5997		
Identified percentage of total mass	30.0149	2.0246		

Molecular Marker				
n- Hentriacontane	0.0315	0.0031		
n-Tritriacontane	0.0315	0.0031		
n- Pentatriacontane	0.0315	0.0031		
Hexadecanamide	0.0315	0.0031		
Octadecanamide	0.0315	0.0031		
Benzo[b]fluoranthene	0.0315	0.0031		
Benzo[k]fluoranthene	0.0315	0.0031		
Benzo[e]pyrene	0.0315	0.0031		
Indeno[1,2,3-cd]fluoranthene	0.0315	0.0031		
Indeno[1,2,3-cd]pyrene	0.0315	0.0031		
Picene	0.0315	0.0031		
Coronene	0.0315	0.0031		

Source Name	Paved Road Dust- Kanpur
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0022	0.0019		
Al	0.0620	0.0084		
As	0.0021	0.0017		
Ba	0.0319	0.0029		
Ca	0.8183	0.0633		
Cd	0.0012	0.0002		
Ce	0.0042	0.0041		
Co	0.0007	0.0005		
Cr	0.0085	0.0022		
Cu	0.0118	0.0025		
Fe	3.2689	0.2675		
Ga	0.0045	0.0032		
Hf	0.0008	0.0012		
Hg	0.0054	0.0008		
In	0.0712	0.0089		
K	0.8589	0.0703		
Lu	0.0001	0.0000		
Mg	1.1264	0.0758		
Mn	0.0596	0.0079		
Mo	0.0005	0.0005		
Na	0.3057	0.0248		
Ni	0.0048	0.0033		
P	0.1031	0.0078		
Pb	0.0440	0.0059		
Pd	0.0061	0.0018		
Sb	0.0041	0.0018		
Sc	0.0004	0.0001		
Se	0.0022	0.0015		
Si	0.2067	0.0182		
Sm	0.0027	0.0019		
Sn	0.7514	0.0565		

Source Name	Paved Road Dust- Kanpur
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sr	0.0188	0.0014		
Th	0.0021	0.0007		
Ti	0.1016	0.0068		
V	0.0012	0.0009		
W	0.0038	0.0027		
Y	0.0009	0.0002		
Zn	0.0894	0.0072		
Zr	0.0003	0.0002		
ANIONS				
F	2.1975	0.1559		
Cl	0.2904	0.0375		
NO2	0.0066	0.0005		
Br	0.0883	0.0081		
NO3	0.0054	0.0047		
PO4	0.0031	0.0022		
SO4	0.6146	0.0455		
CATIONS				
Na	0.3488	0.0673		
NH4	0.0859	0.0248		
K	0.3327	0.0553		
Ca	2.5031	0.2307		
Mg	0.2016	0.0304		
Organic Carbon				
OC1	0.1603	0.0080		
OC2	1.2337	0.0617		
OC3	3.2768	0.1638		
OC4	3.5706	0.1785		
OP	0.0000	0.0000		
Total OC	8.2414	0.4121		
Elemental Carbon				
EC1	1.4015	0.0701		
EC2	0.2770	0.0139		

Source Name	Paved Road Dust- Kanpur
Source Code	52

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC3	0.0895	0.0045		
Total EC	1.7680	0.0884		
Total Carbon	10.0094	0.5005		
Identified percentage of total mass	27.5084			

Molecular Marker				
n- Hentriacontane	0.0078	0.0008		
n-Tritriacontane	0.0078	0.0008		
n- Pentatriacontane	0.0078	0.0008		
Hexadecanamide	0.0078	0.0008		
Octadecanamide	0.2421	0.0242		
Benzo[b]fluoranthene	0.0185	0.0019		
Benzo[k]fluoranthene	0.0078	0.0008		
Benzo[e]pyrene	0.0487	0.0049		
Indeno[1,2,3-cd]fluoranthene	0.0078	0.0008		
Indeno[1,2,3-cd]pyrene	0.0078	0.0008		
Picene	0.0078	0.0008		
Coronene	1.2888	0.1289		

Source Name	Paved Road Dust- Mumbai (Composite)	
Source Code	52	

Profile	PM10 and PM2.5
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0039	0.0019	0.0444	0.0129
Al	0.1168	0.0083	0.0742	0.0056
As	0.0032	0.0017	0.0290	0.0111
Ba	0.0174	0.0013	0.0157	0.0014
Ca	2.6698	0.1890	2.4491	0.1751
Cd	0.0029	0.0003	0.0018	0.0007
Ce	0.0091	0.0042	0.0345	0.0248
Co	0.0039	0.0007	0.0039	0.0028
Cr	0.4691	0.0333	0.0046	0.0012
Cu	0.0308	0.0023	0.0188	0.0023
Fe	6.2385	0.4414	3.7904	0.2696
Ga	0.0020	0.0029	0.0302	0.0191
Hf	0.0025	0.0012	0.0788	0.0115
Hg	0.0159	0.0015	0.0078	0.0030
In	0.0295	0.0051	0.0526	0.0235
K	0.1658	0.0239	4.0852	0.3584
Lu	0.0001	0.0000	0.0004	0.0003
Mg	1.0640	0.0754	0.8586	0.0620
Mn	0.1153	0.0082	0.0673	0.0051
Mo	0.0022	0.0006	0.0111	0.0034
Na	0.2258	0.0175	18.5663	1.3219
Ni	0.2597	0.0209	0.0539	0.0206
P	0.0462	0.0053	0.1098	0.0204
Pb	0.0314	0.0048	0.0283	0.0187
Pd	0.0085	0.0020	0.0444	0.0118
Sb	0.0045	0.0017	0.0148	0.0100
Sc	0.0006	0.0001	0.0033	0.0006
Se	0.0091	0.0019	0.0267	0.0100
Si	0.0301	0.0029	0.0600	0.0094
Sm	0.0026	0.0019	0.0160	0.0115

Source Name	Paved Road Dust- Mumbai (Composite)	
Source Code	52	

Profile	PM10 and PM2.5
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Sn	0.0251	0.0024	0.0696	0.0092
Sr	0.0141	0.0010	0.0104	0.0008
Th	0.0020	0.0006	0.0066	0.0037
Ti	0.2282	0.0162	0.1829	0.0134
V	0.0116	0.0015	0.0492	0.0078
W	0.0036	0.0026	0.0664	0.0184
Y	0.0010	0.0002	0.0016	0.0008
Zn	0.0549	0.0039	0.0292	0.0025
Zr	0.0019	0.0003	0.0104	0.0018
ANIONS				
F	0.0579	0.0049	0.1377	0.0125
Cl	0.0352	0.0283	0.5611	0.1155
NO2	0.0073	0.0005	0.1238	0.0025
Br	0.0045	0.0032	0.0632	0.0130
NO3	0.2656	0.0237	15.2548	0.0255
PO4	0.0041	0.0030	0.0583	0.0120
SO4	0.4073	0.0315	3.4780	0.0419
CATIONS				
Na	0.0700	0.0664	1.3297	0.2737
NH4	0.0399	0.0286	0.5634	0.1160
K	0.0716	0.0515	1.0122	0.2084
Ca	1.5836	0.1873	1.0399	0.4623
Mg	0.0276	0.0258	0.5169	0.1076
Organic Carbon				
OC1	0.1913	0.0096	1.3731	0.0687
OC2	1.3513	0.0676	1.9857	0.0993
OC3	3.8455	0.1923	5.6180	0.2809
OC4	2.5458	0.1273	3.7498	0.1875
OP	0.0000	0.0000	0.0000	0.0000
Total OC	7.9339	0.3967	12.7266	0.6363
Elemental Carbon				

Source Name	Paved Road Dust- Mumbai (Composite)	
Source Code	52	

Profile	PM10 and PM2.5
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC1	2.1071	0.1054	2.1369	0.1068
EC2	0.6009	0.0300	0.8770	0.0439
EC3	0.1516	0.0076	0.1302	0.0065
Total EC	2.8595	0.1430	3.1441	0.1572
Total Carbon	10.7935	0.5397	15.8708	0.7935
Identified percentage of total mass	25.2916		71.0176	
Molecular Marker				
n- Hentriacontane	0.0079	0.0008		
n-Tritriacontane	0.0079	0.0008		
n- Pentatriacontane	0.0079	0.0008		
Hexadecanamide	0.0079	0.0008		
Octadecanamide	0.2318	0.0232		
Benzo[b]fluoranthene	0.0079	0.0008		
Benzo[k]fluoranthene	0.0079	0.0008		
Benzo[e]pyrene	0.0393	0.0039		
deno[1,2,3-cd]fluoranther	0.0079	0.0008		
Indeno[1,2,3-cd]pyrene	0.0079	0.0008		
Picene	0.2675	0.0267		
Coronene	0.0079	0.0008		

Source Name	Paved Road Dust- Pune (Composite)
Source Code	52

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0065	0.0047	0.0121	0.0109
Al	0.1425	0.0102	0.1360	0.0099
As	0.0051	0.0042	0.0124	0.0100
Ba	0.0356	0.0026	0.0323	0.0025
Ca	7.3733	0.5220	7.4904	0.5312
Cd	0.0023	0.0004	0.0077	0.0011
Ce	0.0131	0.0103	0.0621	0.0261
Co	0.0013	0.0011	0.0038	0.0027
Cr	0.0160	0.0014	0.1257	0.0097
Cu	0.0349	0.0028	0.0275	0.0028
Fe	7.9905	0.5657	6.5229	0.4628
Ga	0.0065	0.0076	0.0237	0.0185
Hf	0.0048	0.0031	0.0045	0.0069
Hg	0.0229	0.0025	0.0120	0.0032
In	0.0218	0.0098	0.0587	0.0236
K	0.3707	0.0576	0.4516	0.1097
Lu	0.0002	0.0001	0.0004	0.0003
Mg	1.8279	0.1298	1.3176	0.0944
Mn	0.1451	0.0104	0.1280	0.0093
Mo	0.0027	0.0013	0.0067	0.0031
Na	0.3351	0.0276	0.5132	0.0459
Ni	0.0143	0.0081	0.0674	0.0212
P	0.0694	0.0100	0.0709	0.0179
Pb	0.0137	0.0079	0.1844	0.0288
Pd	0.0106	0.0044	0.0107	0.0097
Sb	0.0078	0.0043	0.0136	0.0098
Sc	0.0009	0.0002	0.0007	0.0005
Se	0.0250	0.0050	0.0328	0.0102
Si	0.0435	0.0051	0.0988	0.0118
Sm	0.0066	0.0048	0.0157	0.0112
Sn	0.0661	0.0063	0.1829	0.0166
Sr	0.0244	0.0018	0.0207	0.0015
Th	0.0045	0.0016	0.0093	0.0037
Ti	0.4418	0.0314	0.3079	0.0222
V	0.0198	0.0032	0.0416	0.0072

Source Name	Paved Road Dust- Pune (Composite)
Source Code	52

Profile	**PM10**
Location	**Laboratory**
Control	**Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
W	0.0078	0.0065	0.0217	0.0156
Y	0.0013	0.0004	0.0017	0.0008
Zn	0.0601	0.0044	0.0940	0.0070
Zr	0.0049	0.0008	0.0065	0.0015
ANIONS				
F	0.4200	0.0313	0.6445	0.0496
Cl	0.0769	0.0552	0.4265	0.1514
NO2	0.0170	0.0012	0.0424	0.0030
Br	0.0087	0.0062	0.0216	0.0155
NO3	0.0170	0.0122	0.0424	0.0304
PO4	0.0080	0.0057	0.0199	0.0143
SO4	0.8500	0.0654	1.9764	0.1529
CATIONS				
Na	0.1822	0.1309	0.4550	0.3268
NH4	0.0772	0.0555	0.1928	0.1385
K	0.1387	0.0997	0.3463	0.2488
Ca	2.9541	0.3551	3.2387	0.6218
Mg	0.0458	0.0496	0.1793	0.1272
Organic Carbon				
OC1	0.3401	0.0170	0.5666	0.0283
OC2	1.2518	0.0626	1.3270	0.0664
OC3	4.1731	0.2087	3.5575	0.1779
OC4	3.3239	0.1662	2.9674	0.1484
OP	0.0000	0.0000	0.0000	0.0000
Total OC	9.0890	0.4544	8.4185	0.4209
Elemental Carbon				
EC1	1.8399	0.0920	1.4151	0.0708
EC2	1.0709	0.0535	0.9801	0.0490
EC3	0.2159	0.0108	0.1560	0.0078
Total EC	3.1266	0.1563	2.5512	0.1276
Total Carbon	12.2156	0.6108	10.9698	0.5485
Identified percentage of total mass	36.1922		36.6862	

Source Name	Paved Road Dust- Pune (Composite)
Source Code	52

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Marker				
n- Hentriacontane	0.0754	0.0075		
n-Tritriacontane	0.0583	0.0058		
n- Pentatriacontane	0.0047	0.0005		
Hexadecanamide	0.0047	0.0005		
Octadecanamide	0.1607	0.0161		
Benzo[b]fluoranthene	0.0149	0.0015		
Benzo[k]fluoranthene	0.0047	0.0005		
Benzo[e]pyrene	0.0047	0.0005		
Indeno[1,2,3-cd]fluoranthene	0.0341	0.0034		
Indeno[1,2,3-cd]pyrene	0.0347	0.0035		
Picene	0.1688	0.0169		
Coronene	0.0047	0.0005		

Source Name	Petroleum Refining-Combustion
Source Code	27

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0639	0.0100		
Al	0.6577	0.0008		
As	0.0276	0.0100		
Ba	0.0575	0.0003		
Ca	3.1360	0.0116		
Cd	0.0285	0.0032		
Ce	0.0307	0.0221		
Co	0.0397	0.0025		
Cr	12.0100	0.0009		
Cu	0.1664	0.0032		
Fe	48.4057	0.0106		
Ga	0.0234	0.0169		
Hf	0.0081	0.0069		
Hg	0.0726	0.0024		
In	0.2830	0.0199		
K	0.2489	0.0998		
Lu	0.0005	0.0003		
Mg	0.3042	0.0037		
Mn	0.6768	0.0006		
Mo	0.0179	0.0028		
Na	1.4721	0.0162		
Ni	4.4982	0.0197		
P	0.2232	0.0135		
Pb	0.5709	0.0771		
Pd	0.0754	0.0090		
Sb	0.0534	0.0091		
Sc	0.0006	0.0004		
Se	0.0213	0.0098		
Si	0.0073	0.0117		
Sm	0.0142	0.0102		
Sn	2.7898	0.0143		
Sr	0.0082	0.0002		
Th	0.0063	0.0036		
Ti	0.0527	0.0030		
V	0.0050	0.0046		
W	0.0197	0.0153		
Y	0.0009	0.0007		

Source Name	Petroleum Refining-Combustion
Source Code	27

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Zn	0.3278	0.0005		
Zr	0.0069	0.0015		
ANIONS				
F	0.0210	0.0038		
Cl	0.1119	0.0711		
NO2	0.0017	0.0001		
Br	0.0110	0.0079		
NO3	0.2206	0.0277		
PO4	0.0102	0.0073		
SO4	42.8113	3.0336		
CATIONS				
Na	0.1542	0.1624		
NH4	2.0216	0.1952		
K	0.1292	0.1243		
Ca	0.1314	0.2295		
Mg	0.0901	0.0647		
Organic Carbon				
OC1	0.6361	0.0318		
OC2	0.7439	0.0372		
OC3	0.8511	0.0426		
OC4	0.8667	0.0433		
OP	0.4295	0.0215		
Total OC	3.5273	0.1764		
Elemental Carbon				
EC1	0.4942	0.0247		
EC2	0.2430	0.0121		
EC3	0.0860	0.0043		
Total EC	0.8231	0.0412		
Total Carbon	4.3504	0.2175		
Identified percentage of total mass	126.4778			

Molecular Markers				
n- Hentriacontane	0.0017	0.0002		
n-Tritriacontane	0.0017	0.0002		

Source Name	Petroleum Refining-Combustion
Source Code	27

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
n- Pentatriacontane	0.0017	0.0002		
Hexadecanamide	0.0017	0.0002		
Octadecanamide	0.0017	0.0002		
Benzo[b]fluoranthene	0.0017	0.0002		
Benzo[k]fluoranthene	0.0017	0.0002		
Benzo[e]pyrene	0.0017	0.0002		
ndeno[1,2,3-cd]fluoranthen	0.0017	0.0002		
Indeno[1,2,3-cd]pyrene	0.0017	0.0002		
Picene	0.0017	0.0002		
Coronene	0.0017	0.0002		

Source Name	Petroleum Refining-- Non- Combustion
Source Code	28

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0638	0.0299		
Al	0.0323	0.0024		
As	0.1681	0.0296		
Ba	0.0067	0.0087		
Ca	0.4430	0.0185		
Cd	0.0671	0.0028		
Ce	0.1402	0.0692		
Co	0.0157	0.0077		
Cr	0.0512	0.0043		
Cu	0.6556	0.0118		
Fe	1.1144	0.0534		
Ga	0.0672	0.0525		
Hf	0.0419	0.0193		
Hg	0.0064	0.0077		
In	0.1262	0.0817		
K	0.6945	0.5635		
Lu	0.0016	0.0008		
Mg	0.0313	0.0071		
Mn	0.0181	0.0012		
Mo	0.0297	0.0090		
Na	0.1672	0.0383		
Ni	0.0315	0.0526		
P	0.0857	0.0423		
Pb	13.1869	0.1976		
Pd	0.0264	0.0262		
Sb	0.0601	0.0290		
Sc	0.0026	0.0013		
Se	0.1852	0.0268		
Si	0.6260	0.1871		
Sm	0.0647	0.0320		
Sn	0.1395	0.7191		
Sr	0.0089	0.0005		
Th	0.0202	0.0096		
Ti	0.0454	0.0078		

Source Name	Petroleum Refining-- Non- Combustion
Source Code	28

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0298	0.0147		
W	0.0898	0.0443		
Y	0.0042	0.0021		
Zn	0.0030	0.0453		
Zr	0.0317	0.0037		
ANIONS				
F	0.5838	0.0530		
Cl	1.0078	0.4224		
NO2	0.0604	0.0043		
Br	0.0948	0.0464		
NO3	1.0276	0.1453		
PO4	0.0572	0.0411		
SO4	4.8710	0.3828		
CATIONS				
Na	1.3761	0.9414		
NH4	0.1512	0.3764		
K	1.2707	0.7335		
Ca	1.7659	1.3459		
Mg	0.5073	0.3645		
Organic Carbon				
OC1	2.2844	0.1142		
OC2	3.0856	0.1543		
OC3	4.3598	0.2180		
OC4	2.4848	0.1242		
OP	0.0000	0.0000		
Total OC	12.2146	0.6107		
Elemental Carbon				
EC1	2.7427	0.1371		
EC2	0.4672	0.0234		
EC3	0.0807	0.0040		
Total EC	3.2906	0.1645		
Total Carbon	15.5052	0.7753		

Source Name	Petroleum Refining-- Non- Combustion
Source Code	28

Profile	PM10
Location	Mumbai
Control	Uncontrolled

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Identified percentage of total mass	46.8627			

Molecular Marker				
n- Hentriacontane	0.0143	0.0014		
n-Tritriacontane	0.0026	0.0003		
n- Pentatriacontane	0.0026	0.0003		
Hexadecanamide	0.0026	0.0003		
Octadecanamide	0.0914	0.0091		
Benzo[b]fluoranthene	0.0712	0.0071		
Benzo[k]fluoranthene	0.0649	0.0065		
Benzo[e]pyrene	0.0459	0.0046		
ndeno[1,2,3-cd]fluoranthen	0.0692	0.0069		
Indeno[1,2,3-cd]pyrene	0.0405	0.0041		
Picene	0.2401	0.0240		
Coronene	0.0026	0.0003		

Source Name	Power Plant-Natutal Gas based
Source Code	5002

Profile PM10
Location Delhi
Control Not Used

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.1498	0.1076		
Al	0.1962	0.0173		
As	0.4732	0.1167		
Ba	0.0597	0.0065		
Ca	4.4072	0.3269		
Cd	0.0090	0.0065		
Ce	1.0259	0.2754		
Co	0.0367	0.0264		
Cr	0.2112	0.0221		
Cu	3.6984	0.2689		
Fe	12.5962	0.9055		
Ga	0.0744	0.1710		
Hf	0.4852	0.0922		
Hg	0.0369	0.0265		
In	0.4554	0.2214		
K	1.8370	0.9174		
Lu	0.0038	0.0028		
Mg	0.0251	0.0180		
Mn	0.0779	0.0085		
Mo	0.2425	0.0409		
Na	1.5018	0.2063		
Ni	0.3035	0.1845		
P	0.2010	0.1444		
Pb	0.1142	0.1704		
Pd	0.1326	0.0953		
Sb	0.3009	0.1044		
Sc	0.0061	0.0044		
Se	0.4943	0.1088		
Si	0.7212	0.0952		
Sm	0.1519	0.1092		
Sn	1.6457	0.1513		
Sr	0.0083	0.0014		
Th	0.1482	0.0397		
Ti	0.0093	0.0067		
V	0.1273	0.0533		
W	0.5400	0.1696		
Y	0.0111	0.0071		

Source Name	Power Plant-Natutal Gas based
Source Code	5002

Profile **PM10**
Location **Delhi**
Control **Not Used**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Zn	1.7548	0.1274		
Zr	0.0693	0.0148		
ANIONS				
F	17.2874	1.2482		
Cl	10.3091	1.5170		
NO2	1.6361	0.1157		
Br	0.1792	0.1120		
NO3	39.9625	2.9714		
PO4	0.1419	0.1020		
SO4	6.0087	0.5224		
CATIONS				
Na	3.5067	2.3416		
NH4	13.0537	1.6982		
K	2.4660	1.7716		
Ca	1.8960	3.2104		
Mg	1.2593	0.9047		
Organic Carbon				
OC1	5.8161	0.2908		
OC2	6.3917	0.3196		
OC3	9.6936	0.4847		
OC4	4.0592	0.2030		
OP	0.5756	0.0288		
Total OC	26.5362	1.3268		
Elemental Carbon				
EC1	2.7566	0.1378		
EC2	2.2113	0.1106		
EC3	2.5143	0.1257		
Total EC	7.4822	0.3741		
Total Carbon	34.0184	1.7009		
Identified percentage of total mass	166.0681			
Molecular Marker				
n- Hentriacontane	0.0702	0.0070		
n-Tritriacontane	0.0702	0.0070		
n- Pentatriacontane	0.0702	0.0070		
Hexadecanamide	3.2179	0.3218		

Source Name	Power Plant-Natutal Gas based
Source Code	5002

Profile **PM10**
Location **Delhi**
Control **Not Used**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Octadecanamide	0.0702	0.0070		
Benzo[b]fluoranthene	0.0704	0.0070		
Benzo[k]fluoranthene	0.0702	0.0070		
Benzo[e]pyrene	0.3685	0.0368		
ndeno[1,2,3-cd]fluoranthene	0.0702	0.0070		
Indeno[1,2,3-cd]pyrene	0.0702	0.0070		
Picene	0.0702	0.0070		
Coronene	0.0702	0.0070		

Source Name	Sand
Source Code	6003

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0012	0.0013		
Al	0.1914	0.0136		
As	0.0017	0.0012		
Ba	0.0655	0.0047		
Ca	1.0497	0.0744		
Cd	0.0023	0.0002		
Ce	0.0015	0.0029		
Co	0.0062	0.0007		
Cr	0.0169	0.0013		
Cu	0.0375	0.0027		
Fe	10.5367	0.7452		
Ga	0.0037	0.0023		
Hf	0.0012	0.0009		
Hg	0.0191	0.0016		
In	0.0590	0.0062		
K	0.4657	0.0410		
Lu	0.0001	0.0000		
Mg	0.9297	0.0659		
Mn	0.1967	0.0139		
Mo	0.0005	0.0004		
Na	0.7247	0.0523		
Ni	0.0082	0.0026		
P	0.0026	0.0018		
Pb	0.0142	0.0029		
Pd	0.0187	0.0023		
Sb	0.0025	0.0013		
Sc	0.0021	0.0002		
Se	0.0030	0.0012		
Si	0.0937	0.0071		
Sm	0.0019	0.0014		
Sn	0.3576	0.0257		
Sr	0.0204	0.0014		
Th	0.0006	0.0004		
Ti	0.3869	0.0274		

Source Name	Sand
Source Code	6003

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
V	0.0128	0.0014		
W	0.0107	0.0024		
Y	0.0026	0.0003		
Zn	0.0785	0.0056		
Zr	0.0038	0.0004		
ANIONS				
F	0.0203	0.0021		
Cl	0.3777	0.0436		
NO2	0.0068	0.0001		
Br	0.0035	0.0025		
NO3	0.0586	0.0080		
PO4	0.0062	0.0025		
SO4	1.1449	0.0830		
CATIONS				
Na	0.4061	0.0717		
NH4	0.0290	0.0220		
K	0.0553	0.0397		
Ca	1.3936	0.1560		
Mg	0.0632	0.0222		
Organic Carbon				
OC1	0.0309	0.0014		
OC2	0.3622	0.0166		
OC3	0.9855	0.0452		
OC4	0.7628	0.0350		
OP	0.0000	0.0000		
Total OC	2.1414	0.0982		
Elemental Carbon				
EC1	0.2834	0.0130		
EC2	0.0234	0.0011		
EC3	0.0213	0.0010		
Total EC	0.3281	0.0150		
Total Carbon	2.4695	0.1132		
Identified percentage of total mass	21.3665			

Source Name	Sand
Source Code	6003

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Markers				
n- Hentriacontane	0.0195	0.0019		
n-Tritriacontane	0.0195	0.0019		
n- Pentatriacontane	0.0195	0.0019		
Hexadecanamide	0.0195	0.0019		
Octadecanamide	0.0195	0.0019		
Benzo[b]fluoranthene	0.0195	0.0019		
Benzo[k]fluoranthene	0.0195	0.0019		
Benzo[e]pyrene	0.0195	0.0019		
Indeno[1,2,3-cd]fluoranthene	0.0195	0.0019		
Indeno[1,2,3-cd]pyrene	0.0195	0.0019		
Picene	0.0195	0.0019		
Coronene	0.0195	0.0019		

Source Name	Secondary Metal Smelting (Lead)
Source Code	46

Profile PM10 and PM2.5
Location Bangalore
Control Baghouse Filters

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.1190	0.1216	0.2446	0.1700
Al	0.0921	0.0109	0.1392	0.0157
As	1.7384	0.2165	0.9079	0.1967
Ba	0.0733	0.0079	0.0953	0.0107
Ca	8.3298	0.6101	14.3404	1.0399
Cd	0.4055	0.0340	0.3397	0.0315
Ce	0.5411	0.2830	0.2205	0.3568
Co	0.0425	0.0305	0.0579	0.0416
Cr	0.5484	0.0475	0.1780	0.0250
Cu	0.0180	0.0129	0.0220	0.0174
Fe	2.2664	0.1783	5.8837	0.4411
Ga	0.3092	0.2096	0.2662	0.2771
Hf	0.2992	0.0912	0.3301	0.1197
Hg	0.0401	0.0305	0.0582	0.0418
In	0.4571	0.2523	2.0605	0.4289
K	0.8908	0.9947	1.2275	1.3564
Lu	0.0062	0.0033	0.0066	0.0044
Mg	0.2502	0.0352	0.8012	0.0795
Mn	0.0408	0.0066	0.1321	0.0143
Mo	0.1814	0.0414	0.3454	0.0629
Na	0.2055	0.1460	3.6277	0.4184
Ni	0.2379	0.2073	0.1169	0.2716
P	1.2139	0.2265	2.1087	0.3361
Pb	17.5220	1.3802	14.8054	1.2444
Pd	0.1409	0.1095	0.1578	0.1474
Sb	0.1548	0.1101	0.1503	0.1468
Sc	0.0073	0.0051	0.0154	0.0072
Se	0.5924	0.1279	0.5798	0.1604
Si	3.8631	0.3187	2.6569	0.2546
Sm	0.1757	0.1262	0.2393	0.1719
Sn	1.8875	0.1771	1.3818	0.1593
Sr	0.0182	0.0022	0.0187	0.0026
Th	0.1046	0.0421	0.3160	0.0681
Ti	0.3718	0.0321	1.1324	0.0881

Source Name	Secondary Metal Smelting (Lead)
Source Code	46

Profile PM10 and PM2.5
Location Bangalore
Control Baghouse Filters

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0807	0.0580	0.2692	0.0881
W	0.7403	0.2036	0.8291	0.2668
Y	0.0177	0.0085	0.0472	0.0131
Zn	0.9290	0.0704	2.2357	0.1634
Zr	0.0529	0.0157	0.1137	0.0238
ANIONS				
F	0.1297	0.0356	0.1085	0.0574
Cl	3.5411	0.9124	9.6377	1.8564
NO2	0.1351	0.0096	0.7370	0.0521
Br	0.4256	0.1045	0.2209	0.1587
NO3	1.7407	0.2657	20.3100	1.6652
PO4	0.1115	0.0801	0.2035	0.1462
SO4	28.2538	2.0728	9.0201	0.7778
CATIONS				
Na	3.5902	1.8856	4.3809	3.3221
NH4	19.4095	1.9650	8.8416	1.8200
K	4.2887	1.5246	1.9518	2.4573
Ca	0.7101	2.4830	5.7989	4.7640
Mg	0.9895	0.7109	1.8051	1.2968
Organic Carbon				
OC1	4.5511	0.2276	8.9994	0.4500
OC2	3.2610	0.1631	6.7407	0.3370
OC3	1.8475	0.0924	20.4264	1.0213
OC4	1.0791	0.0540	2.8660	0.1433
OP	0.4500	0.0225	1.0848	0.0542
Total OC	11.1888	0.5594	40.1173	2.0059
Elemental Carbon				
EC1	0.5345	0.0267	2.1492	0.1075
EC2	0.4913	0.0246	0.8453	0.0423
EC3	0.0579	0.0029	0.1141	0.0057
Total EC	1.0836	0.0542	3.1086	0.1554
Total Carbon	12.2725	0.6136	43.2259	2.1613

Source Name	Secondary Metal Smelting (Lead)
Source Code	46

Profile **PM10 and PM2.5**
Location **Bangalore**
Control **Baghouse Filters**

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Identified percentage of total mass	120.5640		164.7008	
Molecular Marker				
n- Hentriacontane	0.0134	0.0013		
n-Tritriacontane	0.0134	0.0013		
n- Pentatriacontane	0.0134	0.0013		
Hexadecanamide	0.0134	0.0013		
Octadecanamide	0.0134	0.0013		
Benzo[b]fluoranthene	0.0134	0.0013		
Benzo[k]fluoranthene	0.0134	0.0013		
Benzo[e]pyrene	0.0134	0.0013		
Indeno[1,2,3-cd]fluoranthene	0.0134	0.0013		
Indeno[1,2,3-cd]pyrene	0.0134	0.0013		
Picene	0.0134	0.0013		
Coronene	0.0134	0.0013		

Source Name	Secondary Metal Smelting (Lead)	
Source Code	46	

Profile PM10
Location Kanpur
Control Cyclone Separator

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0016	0.0010		
Al	0.0009	0.0001		
As	0.1140	0.0087		
Ba	0.0001	0.0000		
Ca	0.0423	0.0032		
Cd	0.5195	0.0368		
Ce	0.0029	0.0023		
Co	0.0004	0.0003		
Cr	0.0004	0.0001		
Cu	0.0287	0.0021		
Fe	0.0322	0.0024		
Ga	0.0024	0.0017		
Hf	0.0022	0.0007		
Hg	0.0003	0.0003		
In	0.1803	0.0142		
K	0.7835	0.0615		
Lu	0.0001	0.0000		
Mg	0.0017	0.0003		
Mn	0.0003	0.0001		
Mo	0.0025	0.0004		
Na	0.7108	0.0511		
Ni	0.0024	0.0017		
P	0.0108	0.0019		
Pb	76.3159	5.3975		
Pd	0.0011	0.0009		
Sb	0.4731	0.0341		
Sc	0.0000	0.0000		
Se	0.0346	0.0030		
Si	0.0152	0.0015		
Sm	0.0015	0.0010		
Sn	2.1376	0.1515		

Source Name	Secondary Metal Smelting (Lead)	
Source Code	46	

Profile PM10
Location Kanpur
Control Cyclone Separator

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sr	0.0001	0.0000		
Th	0.0015	0.0004		
Ti	0.0004	0.0001		
V	0.0007	0.0005		
W	0.0050	0.0016		
Y	0.0001	0.0001		
Zn	0.1856	0.0132		
Zr	0.0006	0.0001		
ANIONS				
F	0.1320	0.0028		
Cl	1.3139	0.1331		
NO2	0.0205	0.0005		
Br	0.0361	0.0043		
NO3	0.6967	0.0720		
PO4	0.0022	0.0009		
SO4	2.0814	0.1894		
CATIONS				
Na	0.4530	0.0601		
NH4	0.1481	0.0130		
K	0.9569	0.1041		
Ca	0.0564	0.0290		
Mg	0.0170	0.0079		
Organic Carbon				
OC1	0.0277	0.0014		
OC2	0.1355	0.0068		
OC3	0.2360	0.0118		
OC4	0.0333	0.0017		
OP	0.0063	0.0003		
Total OC	0.4387	0.0219		
Elemental Carbon				
EC1	0.0060	0.0003		
EC2	0.0026	0.0001		

Source Name	Secondary Metal Smelting (Lead)	
Source Code	46	

Profile **PM10**
Location **Kanpur**
Control **Cyclone Separator**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
EC3	0.0057	0.0003		
Total EC	0.0144	0.0007		
Total Carbon	0.4531	0.0227		
Identified percentage of total mass	87.9805			
Molecular Marker				
n- Hentriacontane	0.0147	0.0015		
n-Tritriacontane	0.0147	0.0015		
n- Pentatriacontane	0.0147	0.0015		
Hexadecanamide	0.0147	0.0015		
Octadecanamide	0.4507	0.0451		
Benzo[b]fluoranthene	0.0372	0.0037		
Benzo[k]fluoranthene	0.0194	0.0019		
Benzo[e]pyrene	0.1843	0.0184		
Indeno[1,2,3-cd]fluoranthene	0.0147	0.0015		
Indeno[1,2,3-cd]pyrene	0.1334	0.0133		
Picene	0.2583	0.0258		
Coronene	0.0147	0.0015		

Source Name	Soil Dust-Bangalore (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0089	0.0087		
Al	0.1196	0.0062		
As	0.0226	0.0089		
Ba	0.0356	0.0040		
Ca	2.1028	0.1274		
Cd	0.0033	0.0008		
Ce	0.0279	0.0200		
Co	0.0031	0.0022		
Cr	0.0224	0.0015		
Cu	0.0093	0.0016		
Fe	6.2356	0.3805		
Ga	0.0049	0.0148		
Hf	0.0049	0.0058		
Hg	0.0076	0.0022		
In	0.0576	0.0250		
K	0.2931	0.0853		
Lu	0.0003	0.0002		
Mg	0.6109	0.0293		
Mn	0.1153	0.0059		
Mo	0.0037	0.0025		
Na	0.1535	0.0116		
Ni	0.0214	0.0151		
P	0.0170	0.0122		
Pb	0.0311	0.0168		
Pd	0.0170	0.0081		
Sb	0.0151	0.0086		
Sc	0.0009	0.0004		
Se	0.0153	0.0074		
Si	0.2176	0.0114		
Sm	0.0129	0.0092		
Sn	1.2799	0.1578		

Source Name	Soil Dust-Bangalore (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sr	0.0059	0.0004		
Th	0.0143	0.0035		
Ti	0.1440	0.0083		
V	0.0059	0.0042		
W	0.0179	0.0128		
Y	0.0013	0.0007		
Zn	0.1136	0.0162		
Zr	0.0021	0.0011		
ANIONS				
F	0.1414	0.0113		
Cl	0.1562	0.0522		
NO2	0.0550	0.0039		
Br	0.0074	0.0053		
NO3	0.2224	0.0240		
PO4	0.0068	0.0049		
SO4	0.1901	0.0185		
CATIONS				
Na	0.1073	0.1090		
NH4	0.1123	0.0499		
K	0.0922	0.0835		
Ca	1.2975	0.2239		
Mg	0.0603	0.0433		
Organic Carbon				
OC1	1.0044	0.0502		
OC2	3.2404	0.1620		
OC3	8.6624	0.4331		
OC4	5.2215	0.2611		
OP	0.3275	0.0164		
Total OC	18.4562	0.9228		
Elemental Carbon				
EC1	0.6153	0.0308		
EC2	0.3080	0.0154		

Source Name	Soil Dust-Bangalore (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
EC3	0.0041	0.0002		
Total EC	0.9274	0.0464		
Total Carbon	19.3836	0.9692		
Identified percentage of total mass	33.6087			

Molecular Marker				
n- Hentriacontane	0.1148	0.0115		
n-Tritriacontane	0.2119	0.0212		
n- Pentatriacontane	0.1225	0.0123		
Hexadecanamide	0.6835	0.0684		
Octadecanamide	0.1529	0.0153		
Benzo[b]fluoranthene	0.0041	0.0004		
Benzo[k]fluoranthene	0.0484	0.0048		
Benzo[e]pyrene	0.0213	0.0021		
ndeno[1,2,3-cd]fluoranthen	0.0979	0.0098		
Indeno[1,2,3-cd]pyrene	0.0041	0.0004		
Picene	0.0041	0.0004		
Coronene	0.3335	0.0334		

Source Name	Soil Dust-Chennai (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0042	0.0030		
Al	0.0893	0.0052		
As	0.0017	0.0026		
Ba	0.0551	0.0036		
Ca	3.5787	0.2305		
Cd	0.0029	0.0003		
Ce	0.0093	0.0067		
Co	0.0010	0.0007		
Cr	0.0113	0.0011		
Cu	0.0210	0.0015		
Fe	4.2035	0.2589		
Ga	0.0055	0.0050		
Hf	0.0018	0.0019		
Hg	0.0055	0.0009		
In	0.1043	0.0126		
K	0.3087	0.0409		
Lu	0.0001	0.0001		
Mg	0.4847	0.0283		
Mn	0.0919	0.0053		
Mo	0.0006	0.0008		
Na	0.0242	0.0058		
Ni	0.0071	0.0050		
P	0.2463	0.0159		
Pb	0.0819	0.0071		
Pd	0.0053	0.0027		
Sb	0.0097	0.0030		
Sc	0.0005	0.0001		
Se	0.0025	0.0024		
Si	0.1623	0.0130		
Sm	0.0043	0.0031		
Sn	1.0918	0.0842		

Source Name	Soil Dust-Chennai (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sr	0.0114	0.0007		
Th	0.0009	0.0009		
Ti	0.1016	0.0062		
V	0.0020	0.0014		
W	0.0059	0.0043		
Y	0.0008	0.0002		
Zn	0.1378	0.0108		
Zr	0.0004	0.0003		
ANIONS				
F	0.1495	0.0116		
Cl	0.0489	0.0352		
NO2	0.0108	0.0008		
Br	0.1172	0.0115		
NO3	0.0047	0.0074		
PO4	0.0055	0.0037		
SO4	0.2599	0.0220		
CATIONS				
Na	0.0933	0.0821		
NH4	0.0764	0.0368		
K	0.1972	0.0696		
Ca	1.8637	0.2251		
Mg	0.0253	0.0314		
Organic Carbon				
OC1	0.0817	0.0041		
OC2	0.5707	0.0285		
OC3	2.3805	0.1190		
OC4	1.9966	0.0998		
OP	0.0000	0.0000		
Total OC	5.0295	0.2515		
Elemental Carbon				
EC1	1.3417	0.0671		
EC2	0.3851	0.0193		

Source Name	Soil Dust-Chennai (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Available

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC3	0.0337	0.0017		
Total EC	1.7605	0.0880		
Total Carbon	6.7900	0.3395		
Identified percentage of total mass	20.5203			

Molecular Marker				
n- Hentriacontane	0.0118	0.0012		
n-Tritriacontane	0.0118	0.0012		
n- Pentatriacontane	0.0118	0.0012		
Hexadecanamide	0.0118	0.0012		
Octadecanamide	0.0118	0.0012		
Benzo[b]fluoranthene	0.0118	0.0012		
Benzo[k]fluoranthene	0.0118	0.0012		
Benzo[e]pyrene	0.0118	0.0012		
Indeno[1,2,3-cd]fluoranthene	0.0118	0.0012		
Indeno[1,2,3-cd]pyrene	0.0118	0.0012		
Picene	0.0118	0.0012		
Coronene	0.0118	0.0012		

Source Name	Soil Dust-Delhi (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0014	0.0014		
Al	0.1096	0.0073		
As	0.0022	0.0013		
Ba	0.0342	0.0036		
Ca	0.9524	0.0618		
Cd	0.0010	0.0002		
Ce	0.0045	0.0032		
Co	0.0005	0.0004		
Cr	0.0217	0.0007		
Cu	0.0239	0.0025		
Fe	4.0697	0.4550		
Ga	0.0028	0.0024		
Hf	0.0006	0.0009		
Hg	0.0062	0.0009		
In	0.0587	0.0079		
K	0.7574	0.1315		
Lu	0.0001	0.0000		
Mg	0.9303	0.1076		
Mn	0.1090	0.0074		
Mo	0.0004	0.0004		
Na	0.1682	0.0202		
Ni	0.0040	0.0027		
P	0.0230	0.0037		
Pb	0.0251	0.0039		
Pd	0.0062	0.0019		
Sb	0.0046	0.0015		
Sc	0.0005	0.0001		

Source Name	Soil Dust-Delhi (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Se	0.0011	0.0012		
Si	0.1962	0.0171		
Sm	0.0021	0.0015		
Sn	0.5884	0.0437		
Sr	0.0101	0.0011		
Th	0.0020	0.0005		
Ti	0.0899	0.0115		
V	0.0010	0.0007		
W	0.0029	0.0021		
Y	0.0007	0.0002		
Zn	0.0677	0.0068		
Zr	0.0002	0.0002		
ANIONS				
F	0.0408	0.0035		
Cl	0.2450	0.0332		
NO2	0.0234	0.0017		
Br	0.0023	0.0021		
NO3	0.1187	0.0117		
PO4	0.0027	0.0020		
SO4	0.1970	0.0158		
CATIONS				
Na	0.1673	0.0508		
NH4	0.0418	0.0198		
K	0.2398	0.0454		
Ca	1.3014	0.1408		
Mg	0.1062	0.0221		
Organic Carbon				
OC1	0.0085	0.0004		

Source Name	Soil Dust-Delhi (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
OC2	0.1694	0.0085		
OC3	0.7183	0.0359		
OC4	0.8733	0.0437		
OP	0.0000	0.0000		
Total OC	1.7695	0.0885		
Elemental Carbon				
EC1	0.4127	0.0206		
EC2	0.1539	0.0077		
EC3	0.0419	0.0021		
Total EC	0.6085	0.0304		
Total Carbon	2.3781	0.1189		
Identified percentage of total mass	13.1450			

Molecular Marker				
n- Hentriacontane	0.1850	0.0185		
n-Tritriacontane	0.0697	0.0070		
n- Pentatriacontane	0.0697	0.0070		
Hexadecanamide	0.0697	0.0070		
Octadecanamide	0.0697	0.0070		
Benzo[b]fluoranthene	0.0697	0.0070		
Benzo[k]fluoranthene	0.0697	0.0070		
Benzo[e]pyrene	0.0697	0.0070		
ndeno[1,2,3-cd]fluoranthen	0.0697	0.0070		
Indeno[1,2,3-cd]pyrene	0.0697	0.0070		
Picene	0.0697	0.0070		
Coronene	0.0697	0.0070		

Source Name	Soil Dust-Kanpur (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0015	0.0011		
Al	0.0688	0.0044		
As	0.0016	0.0010		
Ba	0.0237	0.0018		
Ca	1.0119	0.0513		
Cd	0.0011	0.0002		
Ce	0.0024	0.0024		
Co	0.0003	0.0003		
Cr	0.0064	0.0005		
Cu	0.0046	0.0004		
Fe	4.2474	0.2669		
Ga	0.0021	0.0018		
Hf	0.0008	0.0007		
Hg	0.0063	0.0006		
In	0.0338	0.0043		
K	1.2721	0.0783		
Lu	0.0000	0.0000		
Mg	1.1043	0.0750		
Mn	0.0662	0.0042		
Mo	0.0003	0.0003		
Na	0.0798	0.0137		
Ni	0.0027	0.0019		
P	0.0342	0.0048		
Pb	0.0119	0.0035		
Pd	0.0078	0.0014		
Sb	0.0036	0.0010		
Sc	0.0007	0.0001		
Se	0.0010	0.0009		
Si	0.0883	0.0055		
Sm	0.0016	0.0011		

Source Name	Soil Dust-Kanpur (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sn	0.4250	0.0281		
Sr	0.0049	0.0007		
Th	0.0010	0.0004		
Ti	0.1202	0.0076		
V	0.0006	0.0005		
W	0.0022	0.0016		
Y	0.0010	0.0001		
Zn	0.0406	0.0034		
Zr	0.0003	0.0001		
ANIONS				
F	0.2671	0.0193		
Cl	0.0199	0.0143		
NO2	0.0049	0.0003		
Br	0.0052	0.0018		
NO3	0.0044	0.0032		
PO4	0.0021	0.0015		
SO4	0.1186	0.0098		
CATIONS				
Na	0.0475	0.0339		
NH4	0.0292	0.0149		
K	0.1550	0.0327		
Ca	0.6756	0.0861		
Mg	0.0530	0.0151		
Organic Carbon				
OC1	0.0054	0.0003		
OC2	0.2193	0.0110		
OC3	0.7605	0.0380		
OC4	0.7645	0.0382		
OP	0.0000	0.0000		
Total OC	1.7497	0.0875		
Elemental Carbon				

Source Name	Soil Dust-Kanpur (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
EC1	0.3325	0.0166		
EC2	0.1405	0.0070		
EC3	0.0361	0.0018		
Total EC	0.5092	0.0255		
Total Carbon	2.2589	0.1129		
Identified percentage of total mass	12.3245			

Molecular Marker				
n- Hentriacontane	0.2274	0.0227		
n-Tritriacontane	0.0474	0.0047		
n- Pentatriacontane	0.0474	0.0047		
Hexadecanamide	0.0474	0.0047		
Octadecanamide	0.0474	0.0047		
Benzo[b]fluoranthene	0.3993	0.0399		
Benzo[k]fluoranthene	0.2650	0.0265		
Benzo[e]pyrene	0.1240	0.0124		
Indeno[1,2,3-cd]fluoranthene	0.3776	0.0378		
Indeno[1,2,3-cd]pyrene	0.4137	0.0414		
Picene	3.0696	0.3070		
Coronene	0.0474	0.0047		

Source Name	Soil Dust-Mumbai (Composite)
Source Code	54

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Elements				
Ag	0.0035	0.0035	0.0252	0.0171
Al	0.1954	0.0139	0.1743	0.0128
As	0.0137	0.0037	0.0524	0.0172
Ba	0.0327	0.0024	0.0323	0.0026
Ca	2.2323	0.1583	0.4589	0.0351
Cd	0.0083	0.0007	0.0020	0.0011
Ce	0.0114	0.0078	0.0494	0.0372
Co	0.0032	0.0010	0.0033	0.0040
Cr	0.0211	0.0017	0.0235	0.0029
Cu	0.0221	0.0018	0.0159	0.0026
Fe	9.5918	0.6787	8.5889	0.6097
Ga	0.0052	0.0058	0.0300	0.0280
Hf	0.0028	0.0023	0.0208	0.0113
Hg	0.0344	0.0031	0.0341	0.0059
In	0.0316	0.0082	0.0581	0.0343
K	0.1683	0.0364	0.2178	0.1412
Lu	0.0001	0.0001	0.0006	0.0004
Mg	0.9762	0.0694	0.8872	0.0647
Mn	0.1852	0.0132	0.1638	0.0120
Mo	0.0029	0.0010	0.0333	0.0062
Na	0.0372	0.0060	0.0561	0.0216
Ni	0.0147	0.0063	0.0370	0.0286
P	0.0563	0.0078	0.1566	0.0302
Pb	0.0826	0.0107	0.0220	0.0272
Pd	0.0071	0.0033	0.0196	0.0150
Sb	0.0028	0.0030	0.0125	0.0146
Sc	0.0021	0.0003	0.0011	0.0007
Se	0.0108	0.0033	0.1112	0.0193
Si	0.0555	0.0054	0.1038	0.0149
Sm	0.0123	0.0040	0.0240	0.0173
Sn	0.0566	0.0052	0.0893	0.0126
Sr	0.0123	0.0009	0.0115	0.0009
Th	0.0100	0.0016	0.0151	0.0058
Ti	0.4038	0.0287	0.3524	0.0256
V	0.0172	0.0026	0.0542	0.0105
W	0.0213	0.0058	0.0497	0.0249

Source Name	Soil Dust-Mumbai (Composite)
Source Code	54

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Y	0.0029	0.0004	0.0012	0.0011
Zn	0.0612	0.0044	0.0645	0.0052
Zr	0.0037	0.0006	0.0082	0.0022
ANIONS				
F	0.1311	0.0109	0.0859	0.0164
Cl	0.0941	0.0556	0.4373	0.3142
NO2	0.0168	0.0012	0.0643	0.0045
Br	0.0086	0.0062	0.0493	0.0354
NO3	0.0479	0.0139	6.3112	0.4980
PO4	0.0079	0.0057	0.0454	0.0326
SO4	0.2684	0.0246	1.3973	0.1324
CATIONS				
Na	0.1720	0.1289	1.0364	0.7446
NH4	0.0763	0.0548	0.4391	0.3155
K	0.1371	0.0985	0.7889	0.5668
Ca	0.9379	0.2252	0.9565	1.0453
Mg	0.0997	0.0519	0.4029	0.2894
Organic Carbon				
OC1	0.1845	0.0092	2.2019	0.1101
OC2	0.4293	0.0215	2.1536	0.1077
OC3	1.9963	0.0998	4.2737	0.2137
OC4	1.3078	0.0654	2.7005	0.1350
OP	0.0000	0.0000	0.0000	0.0000
Total OC	3.9179	0.1959	11.3297	0.5665
Elemental Carbon				
EC1	1.2342	0.0617	2.1059	0.1053
EC2	0.6415	0.0321	0.9080	0.0454
EC3	0.1485	0.0074	0.1397	0.0070
Total EC	2.0242	0.1012	3.1536	0.1577
Total Carbon	5.9421	0.2971	14.4833	0.7242
Identified percentage of total mass	22.3525		38.5597	
Molecular Marker				
n- Hentriacontane	0.0032	0.0003		

Source Name	Soil Dust-Mumbai (Composite)
Source Code	54

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
n-Tritriacontane	0.0032	0.0003		
n- Pentatriacontane	0.0032	0.0003		
Hexadecanamide	0.3235	0.0324		
Octadecanamide	0.0032	0.0003		
Benzo[b]fluoranthene	0.0051	0.0005		
Benzo[k]fluoranthene	0.0032	0.0003		
Benzo[e]pyrene	0.0080	0.0008		
ndeno[1,2,3-cd]fluoranthene	0.0032	0.0003		
Indeno[1,2,3-cd]pyrene	0.0032	0.0003		
Picene	0.0032	0.0003		
Coronene	0.0032	0.0003		

Source Name	Soil Dust-Pune (Composite)
Source Code	54

Profile PM10
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0072	0.0061	0.0219	0.0123
Al	0.1572	0.0113	0.1252	0.0092
As	0.0109	0.0058	0.0203	0.0112
Ba	0.0332	0.0025	0.0304	0.0024
Ca	6.2073	0.4398	4.9710	0.3532
Cd	0.0027	0.0005	0.0007	0.0007
Ce	0.0201	0.0136	0.0419	0.0266
Co	0.0032	0.0016	0.0041	0.0029
Cr	0.5845	0.0418	0.0098	0.0016
Cu	0.0242	0.0022	0.0129	0.0019
Fe	8.5381	0.6046	6.3425	0.4501
Ga	0.0043	0.0098	0.0162	0.0195
Hf	0.0042	0.0039	0.0085	0.0076
Hg	0.0163	0.0024	0.0131	0.0035
In	0.0310	0.0130	0.0476	0.0245
K	0.2541	0.0611	0.6327	0.1286
Lu	0.0002	0.0002	0.0004	0.0003
Mg	1.3672	0.0974	1.2853	0.0922
Mn	0.1532	0.0110	0.1222	0.0089
Mo	0.0015	0.0016	0.0019	0.0031
Na	0.1880	0.0187	0.2535	0.0291
Ni	0.1832	0.0217	0.0133	0.0195
P	0.0452	0.0103	0.0756	0.0193
Pb	0.0324	0.0112	0.0513	0.0211
Pd	0.0059	0.0054	0.0165	0.0107
Sb	0.0048	0.0053	0.0148	0.0106
Sc	0.0013	0.0003	0.0007	0.0005
Se	0.0219	0.0059	0.0396	0.0113
Si	0.0440	0.0058	0.0655	0.0099
Sm	0.0087	0.0063	0.0169	0.0122
Sn	0.1337	0.0114	0.0894	0.0108
Sr	0.0202	0.0015	0.0188	0.0014
Th	0.0146	0.0027	0.0053	0.0038
Ti	0.3728	0.0266	0.2885	0.0209
V	0.0214	0.0039	0.0327	0.0071
W	0.0121	0.0087	0.0235	0.0169
Y	0.0013	0.0004	0.0017	0.0008

Source Name	Soil Dust-Pune (Composite)
Source Code	54

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Zn	0.0635	0.0047	0.0371	0.0031
Zr	0.0040	0.0009	0.0105	0.0018
ANIONS				
F	0.0074	0.0035	1.2796	0.0958
Cl	0.1171	0.0833	0.2320	0.1667
NO2	0.0256	0.0018	0.0512	0.0036
Br	0.0131	0.0094	0.0261	0.0188
NO3	0.0256	0.0184	0.0512	0.0368
PO4	0.0120	0.0086	0.0241	0.0173
SO4	0.1249	0.0184	0.1490	0.0303
CATIONS				
Na	0.3496	0.2014	0.5498	0.3950
NH4	0.1164	0.0836	0.2329	0.1673
K	0.2091	0.1502	0.4185	0.3007
Ca	1.9143	0.3725	1.9346	0.6329
Mg	0.1054	0.0767	0.2137	0.1535
Organic Carbon				
OC1	0.1603	0.0080	0.2264	0.0113
OC2	0.7795	0.0390	0.7379	0.0369
OC3	2.0921	0.1046	1.7570	0.0879
OC4	1.8168	0.0908	1.4028	0.0701
OP	0.0000	0.0000	0.0000	0.0000
Total OC	4.8487	0.2424	4.1241	0.2062
Elemental Carbon				
EC1	1.6410	0.0820	1.0068	0.0503
EC2	0.7506	0.0375	0.5131	0.0257
EC3	0.1347	0.0067	0.0085	0.0004
Total EC	2.5263	0.1263	1.5283	0.0764
Total Carbon	7.3750	0.3687	5.6525	0.2826
Identified percentage of total mass	28.9028		23.9537	
Molecular Marker				
n- Hentriacontane	0.0203	0.0020		
n-Tritriacontane	0.0203	0.0020		
n- Pentatriacontane	0.3285	0.0328		

Source Name	Soil Dust-Pune (Composite)
Source Code	54

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Hexadecanamide	0.0203	0.0020		
Octadecanamide	0.6009	0.0601		
Benzo[b]fluoranthene	0.0203	0.0020		
Benzo[k]fluoranthene	0.0203	0.0020		
Benzo[e]pyrene	0.0203	0.0020		
ndeno[1,2,3-cd]fluoranthene	0.0203	0.0020		
Indeno[1,2,3-cd]pyrene	0.0203	0.0020		
Picene	0.0203	0.0020		
Coronene	0.0203	0.0020		

Source Name	Solid Waste Open Burning-Commerical Area
Source Code	18

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Elements				
Ag	0.0014	0.0029		
Al	0.0041	0.0004		
As	0.0038	0.0027		
Ba	0.0158	0.0012		
Ca	0.4370	0.0313		
Cd	0.0009	0.0002		
Ce	0.0092	0.0066		
Co	0.0010	0.0007		
Cr	0.0032	0.0004		
Cu	0.0003	0.0003		
Fe	0.4858	0.0348		
Ga	0.0002	0.0047		
Hf	0.0027	0.0020		
Hg	0.0010	0.0007		
In	0.0620	0.0092		
K	0.1064	0.0288		
Lu	0.0001	0.0001		
Mg	0.0006	0.0005		
Mn	0.0034	0.0003		
Mo	0.0011	0.0008		
Na	0.2137	0.0176		
Ni	0.0008	0.0048		
P	0.0056	0.0040		
Pb	0.0168	0.0055		
Pd	0.0036	0.0027		
Sb	0.0100	0.0030		
Sc	0.0002	0.0001		
Se	0.0035	0.0025		
Si	0.0605	0.0054		
Sm	0.0043	0.0031		
Sn	1.1174	0.0799		
Sr	0.0008	0.0001		
Th	0.0008	0.0009		
Ti	0.0072	0.0006		

Source Name	Solid Waste Open Burning-Commerical Area
Source Code	18

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0020	0.0014		
W	0.0059	0.0042		
Y	0.0003	0.0002		
Zn	0.0831	0.0060		
Zr	0.0001	0.0003		
ANIONS				
F	0.0476	0.0045		
Cl	0.2619	0.0503		
NO2	0.0117	0.0003		
Br	0.0060	0.0043		
NO3	0.0135	0.0085		
PO4	0.0210	0.0048		
SO4	0.2506	0.0215		
CATIONS				
Na	0.1071	0.0896		
NH4	0.1045	0.0412		
K	0.0960	0.0689		
Ca	1.7544	0.2266		
Mg	0.0490	0.0352		
Organic Carbon				
OC1	34.3086	1.4844		
OC2	9.0610	0.3920		
OC3	4.3943	0.1901		
OC4	0.8152	0.0353		
OP	3.4800	0.1506		
Total OC	52.0591	2.2524		
Elemental Carbon				
EC1	1.3086	0.0566		
EC2	0.0686	0.0030		
EC3	0.0629	0.0027		
Total EC	1.4400	0.0623		
Total Carbon	53.4991	2.3147		
Identified percentage of total mass	58.8990			

Source Name	Solid Waste Open Burning-Commerical Area
Source Code	18

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Marker				
n- Hentriacontane	0.2803	0.0280		
n-Tritriacontane	0.3217	0.0322		
n- Pentatriacontane	0.4232	0.0423		
Hexadecanamide	0.3063	0.0306		
Octadecanamide	0.1911	0.0191		
Benzo[b]fluoranthene	0.0847	0.0085		
Benzo[k]fluoranthene	0.0456	0.0046		
Benzo[e]pyrene	0.0930	0.0093		
Indeno[1,2,3-cd]fluoranthene	0.1515	0.0152		
Indeno[1,2,3-cd]pyrene	0.1268	0.0127		
Picene	0.4547	0.0455		
Coronene	0.3720	0.0372		

Source Name	Solid Waste Open Burning-Residential Area	
Source Code	18	

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0022	0.0043		
Al	0.0065	0.0006		
As	0.0057	0.0041		
Ba	0.0247	0.0018		
Ca	0.7558	0.0541		
Cd	0.0016	0.0003		
Ce	0.0139	0.0100		
Co	0.0016	0.0011		
Cr	0.0057	0.0007		
Cu	0.0007	0.0005		
Fe	0.9362	0.0668		
Ga	0.0000	0.0071		
Hf	0.0012	0.0028		
Hg	0.0016	0.0011		
In	0.1297	0.0162		
K	0.0101	0.0352		
Lu	0.0002	0.0001		
Mg	0.0011	0.0008		
Mn	0.0051	0.0005		
Mo	0.0017	0.0012		
Na	0.0636	0.0087		
Ni	0.0037	0.0073		
P	0.0085	0.0061		
Pb	0.0463	0.0096		
Pd	0.0005	0.0038		
Sb	0.0021	0.0038		
Sc	0.0001	0.0002		
Se	0.0052	0.0037		
Si	0.1892	0.0150		
Sm	0.0064	0.0046		
Sn	1.7518	0.1252		
Sr	0.0008	0.0001		
Th	0.0020	0.0014		
Ti	0.0093	0.0009		

Source Name	Solid Waste Open Burning-Residential Area	
Source Code	18	

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0030	0.0021		
W	0.0089	0.0064		
Y	0.0004	0.0003		
Zn	0.1518	0.0109		
Zr	0.0005	0.0005		
ANIONS				
F	0.0723	0.0064		
Cl	0.6023	0.0792		
NO2	0.0018	0.0001		
Br	0.0073	0.0052		
NO3	0.0143	0.0103		
PO4	0.0037	0.0047		
SO4	0.3969	0.0326		
CATIONS				
Na	0.1535	0.1103		
NH4	0.2321	0.0562		
K	0.1168	0.0839		
Ca	2.0471	0.2701		
Mg	0.0597	0.0429		
Organic Carbon				
OC1	37.7432	1.8872		
OC2	16.6789	0.8339		
OC3	5.3577	0.2679		
OC4	0.8261	0.0413		
OP	2.8228	0.1411		
Total OC	63.4287	3.1714		
Elemental Carbon				
EC1	3.5765	0.1788		
EC2	0.0677	0.0034		
EC3	0.1762	0.0088		
Total EC	3.8204	0.1910		
Total Carbon	67.2491	3.3625		

Identified percentage of total mass	75.1161			

Source Name	Solid Waste Open Burning-Residential Area	
Source Code	18	

Profile for PM10
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Molecular Markers				
n- Hentriacontane	0.2803	0.0005		
n-Tritriacontane	0.3217	0.0005		
n- Pentatriacontane	0.4232	0.0005		
Hexadecanamide	0.3063	0.0005		
Octadecanamide	0.1911	0.0005		
Benzo[b]fluoranthene	0.0847	0.0005		
Benzo[k]fluoranthene	0.0456	0.0005		
Benzo[e]pyrene	0.0930	0.0005		
Indeno[1,2,3-cd]fluoranthene	0.1515	0.0005		
Indeno[1,2,3-cd]pyrene	0.1268	0.0005		
Picene	0.4547	0.0005		
Coronene	0.3720	0.0005		

Source Name	Steel Rolling Mills
Source Code	6001

Profile PM10
Location Chennai
Control Not Used

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0013	0.0009	0.0014	0.0010
Al	0.2547	0.0180	0.0700	0.0050
As	0.0154	0.0017	0.0047	0.0011
Ba	0.2466	0.0175	0.1748	0.0124
Ca	4.9808	0.3523	4.6317	0.3277
Cd	0.0111	0.0008	0.0029	0.0002
Ce	0.0324	0.0039	0.0024	0.0022
Co	0.0109	0.0009	0.0004	0.0003
Cr	0.0122	0.0009	0.0003	0.0001
Cu	0.0610	0.0044	0.0094	0.0007
Fe	17.3209	1.2249	4.2400	0.3000
Ga	0.0112	0.0021	0.0016	0.0016
Hf	0.0008	0.0006	0.0009	0.0007
Hg	0.0490	0.0036	0.0120	0.0010
In	3.2550	0.2314	1.2300	0.0883
K	3.3165	0.2396	0.5931	0.0477
Lu	0.0005	0.0001	0.0000	0.0000
Mg	6.8823	0.4868	1.3036	0.0923
Mn	0.2468	0.0175	0.0675	0.0048
Mo	0.0003	0.0002	0.0004	0.0003
Na	6.8636	0.4860	1.6126	0.1148
Ni	0.0465	0.0045	0.0079	0.0020
P	0.1913	0.0144	0.0973	0.0078
Pb	2.1272	0.1514	2.6710	0.1900
Pd	0.0042	0.0010	0.0012	0.0009
Sb	0.0011	0.0008	0.0012	0.0009
Sc	0.0041	0.0003	0.0011	0.0001
Se	0.0010	0.0007	0.0011	0.0008
Si	0.1033	0.0076	0.1004	0.0075
Sm	0.0013	0.0009	0.0014	0.0010
Sn	0.0006	0.0004	0.0006	0.0005
Sr	0.3080	0.0218	0.0579	0.0041
Th	0.0004	0.0003	0.0017	0.0004
Ti	3.2861	0.2324	1.0987	0.0777
V	0.0178	0.0016	0.0080	0.0009

Source Name	Steel Rolling Mills
Source Code	6001

Profile PM10
Location Chennai
Control Not Used

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
W	0.0275	0.0030	0.0020	0.0014
Y	0.0062	0.0005	0.0015	0.0002
Zn	2.2593	0.1598	0.9426	0.0667
Zr	0.0063	0.0005	0.0035	0.0003
ANIONS				
F	0.0193	0.0012	0.0164	0.0014
Cl	0.1597	0.0145	0.7575	0.0591
NO2	0.0112	0.0002	0.0025	0.0002
Br	0.0031	0.0009	0.0236	0.0024
NO3	0.3204	0.0305	0.3287	0.0244
PO4	0.0012	0.0007	0.0012	0.0008
SO4	12.1661	0.7781	3.4775	0.2466
CATIONS				
Na	0.8267	0.0452	0.2934	0.0357
NH4	0.0989	0.0105	0.1644	0.0178
K	0.0908	0.0140	0.0628	0.0170
Ca	2.5623	0.1657	1.1199	0.0991
Mg	0.3149	0.0096	0.1708	0.0177
Organic Carbon				
OC1	0.0058	0.0003	0.0561	0.0028
OC2	0.1400	0.0070	0.6432	0.0322
OC3	0.3815	0.0191	0.9095	0.0455
OC4	0.4864	0.0243	0.6743	0.0337
OP	1.3751	0.0688	17.7682	0.8884
Total OC	2.3887	0.1194	20.0513	1.0026
Elemental Carbon				
EC1	2.1258	0.1063	9.1439	0.4572
EC2	0.1739	0.0087	0.2662	0.0133
EC3	0.0634	0.0032	0.1525	0.0076
Total EC	2.3630	0.1182	9.5626	0.4781
Total Carbon	4.7518	0.2376	29.6139	1.4807
Identified percentage of total mass	73.2921		54.9915	
Molecular Marker				
n- Hentriacontane	0.0052	0.0005		

Source Name	Steel Rolling Mills
Source Code	6001

Profile **PM10**
Location **Chennai**
Control **Not Used**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
n-Tritriacontane	0.0019	0.0002		
n- Pentatriacontane	0.0019	0.0002		
Hexadecanamide	0.0019	0.0002		
Octadecanamide	0.0019	0.0002		
Benzo[b]fluoranthene	0.0106	0.0011		
Benzo[k]fluoranthene	0.0089	0.0009		
Benzo[e]pyrene	0.0099	0.0010		
Indeno[1,2,3-cd]fluoranthene	0.0168	0.0017		
Indeno[1,2,3-cd]pyrene	0.0161	0.0016		
Picene	0.0019	0.0002		
Coronene	0.0019	0.0002		

Source Name	Tar Melting
Source Code	6006

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0009	0.0013		
Al	0.0015	0.0001		
As	0.0017	0.0012		
Ba	0.0069	0.0005		
Ca	0.3801	0.0271		
Cd	0.0008	0.0001		
Ce	0.0041	0.0029		
Co	0.0005	0.0003		
Cr	0.0012	0.0002		
Cu	0.0002	0.0001		
Fe	0.2193	0.0157		
Ga	0.0005	0.0021		
Hf	0.0012	0.0009		
Hg	0.0005	0.0003		
In	0.0263	0.0040		
K	0.0294	0.0117		
Lu	0.0000	0.0000		
Mg	0.0091	0.0008		
Mn	0.0010	0.0001		
Mo	0.0005	0.0004		
Na	0.0574	0.0052		
Ni	0.0006	0.0021		
P	0.0218	0.0030		
Pb	0.0098	0.0026		
Pd	0.0016	0.0012		
Sb	0.0054	0.0014		
Sc	0.0000	0.0001		
Se	0.0023	0.0011		
Si	0.0248	0.0023		
Sm	0.0019	0.0013		
Sn	0.5009	0.0358		
Sr	0.0008	0.0001		
Th	0.0006	0.0004		
Ti	0.0013	0.0002		

Source Name	Tar Melting
Source Code	6006

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
V	0.0009	0.0006		
W	0.0026	0.0019		
Y	0.0001	0.0001		
Zn	0.0521	0.0037		
Zr	0.0002	0.0001		
ANIONS				
F	0.0062	0.0007		
Cl	0.0136	0.0097		
NO2	0.0030	0.0001		
Br	0.0015	0.0011		
NO3	0.0030	0.0021		
PO4	0.0035	0.0011		
SO4	0.0803	0.0066		
CATIONS				
Na	0.0018	0.0215		
NH4	0.0136	0.0098		
K	0.0221	0.0174		
Ca	0.4663	0.0590		
Mg	0.0754	0.0127		
Organic Carbon				
OC1	34.2111	1.6584		
OC2	14.9674	0.7256		
OC3	3.6885	0.1788		
OC4	0.1483	0.0072		
OP	2.4157	0.1171		
Total OC	55.4309	2.6871		
Elemental Carbon				
EC1	4.3057	0.2087		
EC2	0.0249	0.0012		
EC3	0.0202	0.0010		
Total EC	4.3508	0.2109		
Total Carbon	59.7817	2.8980		
Identified percentage of total mass	61.8429			

Source Name	Tar Melting
Source Code	6006

Profile for **PM10 and PM2.5**
Location **Laboratory**
Controls **Not Applicable**

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Molecular Markers				
n- Hentriacontane	0.0064	0.0006		
n-Tritriacontane	0.0064	0.0006		
n- Pentatriacontane	0.0064	0.0006		
Hexadecanamide	0.0064	0.0006		
Octadecanamide	0.2003	0.0200		
Benzo[b]fluoranthene	0.0064	0.0006		
Benzo[k]fluoranthene	0.0064	0.0006		
Benzo[e]pyrene	0.0064	0.0006		
deno[1,2,3-cd]fluoranther	0.0064	0.0006		
Indeno[1,2,3-cd]pyrene	0.0064	0.0006		
Picene	0.3352	0.0335		
Coronene	0.0064	0.0006		

Source Name	UnPaved Road Dust- Bangalore (Composite)	
Source Code	53	

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0066	0.0065		
Al	0.0379	0.0056		
As	0.0214	0.0069		
Ba	0.0261	0.0028		
Ca	1.1848	0.2472		
Cd	0.0026	0.0004		
Ce	0.0198	0.0142		
Co	0.0022	0.0016		
Cr	0.0027	0.0012		
Cu	0.0071	0.0018		
Fe	2.7162	0.3531		
Ga	0.0151	0.0108		
Hf	0.0058	0.0042		
Hg	0.0020	0.0019		
In	0.0646	0.0129		
K	0.2068	0.0820		
Lu	0.0002	0.0002		
Mg	0.2291	0.0485		
Mn	0.0356	0.0055		
Mo	0.0024	0.0017		
Na	0.0726	0.0199		
Ni	0.0086	0.0107		
P	0.0121	0.0087		
Pb	0.0280	0.0111		
Pd	0.0049	0.0055		
Sb	0.0147	0.0058		
Sc	0.0003	0.0003		
Se	0.0102	0.0055		
Si	0.0910	0.0139		
Sm	0.0091	0.0066		
Sn	0.7288	0.0054		

Source Name	UnPaved Road Dust- Bangalore (Composite)	
Source Code	53	

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
Sr	0.0031	0.0006		
Th	0.0160	0.0027		
Ti	0.0606	0.0080		
V	0.0042	0.0030		
W	0.0127	0.0091		
Y	0.0012	0.0004		
Zn	0.0868	0.0027		
Zr	0.0060	0.0011		
ANIONS				
F	0.0434	0.0043		
Cl	0.3881	0.0618		
NO2	0.0192	0.0014		
Br	0.0074	0.0047		
NO3	0.1793	0.0201		
PO4	0.0059	0.0042		
SO4	0.4101	0.0331		
CATIONS				
Na	0.1333	0.0966		
NH4	0.0853	0.0426		
K	0.2417	0.0816		
Ca	2.1229	0.2585		
Mg	0.1173	0.0414		
Organic Carbon				
OC1	0.1537	0.0077		
OC2	0.4384	0.0219		
OC3	1.2352	0.0618		
OC4	0.7751	0.0388		
OP	0.0000	0.0000		
Total OC	2.6024	0.1301		
Elemental Carbon				
EC1	0.7047	0.0352		
EC2	0.2535	0.0127		

Source Name	UnPaved Road Dust- Bangalore (Composite)	
Source Code	53	

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC3	0.0202	0.0010		
Total EC	0.9783	0.0489		
Total Carbon	3.5808	0.1790		
Identified percentage of total mass	13.0947			

Molecular Marker				
n- Hentriacontane	0.0290	0.0029		
n-Tritriacontane	0.0302	0.0030		
n- Pentatriacontane	0.0010	0.0001		
Hexadecanamide	0.0358	0.0036		
Octadecanamide	0.0448	0.0045		
Benzo[b]fluoranthene	0.0010	0.0001		
Benzo[k]fluoranthene	0.0010	0.0001		
Benzo[e]pyrene	0.0010	0.0001		
Indeno[1,2,3-cd]fluoranthene	0.0010	0.0001		
Indeno[1,2,3-cd]pyrene	0.0010	0.0001		
Picene	0.0010	0.0001		
Coronene	0.0010	0.0001		

Source Name	Unpaved Road Dust- Delhi
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0004	0.0006		
Al	0.0670	0.0044		
As	0.0007	0.0006		
Ba	0.0396	0.0023		
Ca	1.5716	0.1177		
Cd	0.0012	0.0001		
Ce	0.0025	0.0015		
Co	0.0008	0.0002		
Cr	0.0071	0.0005		
Cu	0.0386	0.0021		
Fe	4.7725	0.2893		
Ga	0.0008	0.0011		
Hf	0.0006	0.0004		
Hg	0.0070	0.0005		
In	0.0733	0.0053		
K	1.1014	0.0601		
Lu	0.0001	0.0000		
Mg	1.1653	0.0740		
Mn	0.0668	0.0044		
Mo	0.0004	0.0002		
Na	0.2149	0.0121		
Ni	0.0055	0.0013		
P	0.0170	0.0020		
Pb	0.0194	0.0035		
Pd	0.0089	0.0010		
Sb	0.0014	0.0006		
Sc	0.0006	0.0001		
Se	0.0006	0.0005		
Si	0.1118	0.0063		
Sm	0.0009	0.0007		

Source Name	Unpaved Road Dust- Delhi
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sn	0.2949	0.0201		
Sr	0.0138	0.0008		
Th	0.0006	0.0002		
Ti	0.1254	0.0078		
V	0.0016	0.0004		
W	0.0037	0.0011		
Y	0.0009	0.0001		
Zn	0.0810	0.0048		
Zr	0.0003	0.0001		
ANIONS				
F	0.3016	0.0216		
Cl	0.2628	0.0253		
NO2	0.0028	0.0002		
Br	0.0140	0.0018		
NO3	0.0028	0.0020		
PO4	0.0013	0.0009		
SO4	0.6315	0.0455		
CATIONS				
Na	0.2077	0.0322		
NH4	0.0436	0.0109		
K	0.1197	0.0221		
Ca	1.0617	0.0977		
Mg	0.1470	0.0169		
Organic Carbon				
OC1	0.0242	0.0012		
OC2	0.2890	0.0144		
OC3	0.9751	0.0488		
OC4	1.1421	0.0571		
OP	0.0000	0.0000		
Total OC	2.4304	0.1215		
Elemental Carbon				

Source Name	Unpaved Road Dust- Delhi
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx x=10µm	Uncertainty ± (%)	PMx x=2.5µm	Uncertainty ± (%)
EC1	0.6128	0.0306		
EC2	0.1405	0.0070		
EC3	0.0349	0.0017		
Total EC	0.7882	0.0394		
Total Carbon	3.2186	0.1609		
Identified percentage of total mass	15.8365			

Molecular Marker				
n- Hentriacontane	0.0059	0.0006		
n-Tritriacontane	0.0059	0.0006		
n- Pentatriacontane	0.0059	0.0006		
Hexadecanamide	0.0059	0.0006		
Octadecanamide	0.0059	0.0006		
Benzo[b]fluoranthene	0.0059	0.0006		
Benzo[k]fluoranthene	0.0059	0.0006		
Benzo[e]pyrene	0.0367	0.0037		
Indeno[1,2,3-cd]fluoranthene	0.0059	0.0006		
Indeno[1,2,3-cd]pyrene	0.0059	0.0006		
Picene	0.0059	0.0006		
Coronene	0.0059	0.0006		

Source Name	Unpaved Road Dust- Kanpur (Composite)
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0009	0.0008		
Al	0.0435	0.0027		
As	0.0005	0.0007		
Ba	0.0238	0.0015		
Ca	0.3331	0.0240		
Cd	0.0011	0.0001		
Ce	0.0036	0.0018		
Co	0.0002	0.0002		
Cr	0.0049	0.0003		
Cu	0.0040	0.0004		
Fe	2.4616	0.1456		
Ga	0.0017	0.0013		
Hf	0.0004	0.0005		
Hg	0.0044	0.0004		
In	0.0326	0.0033		
K	0.6044	0.0411		
Lu	0.0000	0.0000		
Mg	0.8061	0.0484		
Mn	0.0413	0.0026		
Mo	0.0003	0.0002		
Na	0.2424	0.0145		
Ni	0.0014	0.0013		
P	0.0690	0.0049		
Pb	0.0209	0.0019		
Pd	0.0048	0.0009		
Sb	0.0019	0.0007		
Sc	0.0005	0.0001		
Se	0.0010	0.0006		
Si	0.0415	0.0032		

Source Name	Unpaved Road Dust- Kanpur (Composite)
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Sm	0.0011	0.0008		
Sn	0.2690	0.0186		
Sr	0.0145	0.0009		
Th	0.0013	0.0003		
Ti	0.0782	0.0045		
V	0.0005	0.0004		
W	0.0016	0.0011		
Y	0.0011	0.0001		
Zn	0.0430	0.0028		
Zr	0.0003	0.0001		
ANIONS				
F	0.3226	0.0231		
Cl	0.1926	0.0208		
NO2	0.0029	0.0002		
Br	0.0107	0.0016		
NO3	0.0029	0.0021		
PO4	0.0022	0.0010		
SO4	1.2634	0.0902		
CATIONS				
Na	0.2695	0.0369		
NH4	0.0107	0.0094		
K	0.1054	0.0220		
Ca	1.1847	0.1072		
Mg	0.0988	0.0140		
Organic Carbon				
OC1	0.0524	0.0026		
OC2	0.3059	0.0153		
OC3	1.2852	0.0643		
OC4	1.7572	0.0879		
OP	0.0000	0.0000		

Source Name	Unpaved Road Dust- Kanpur (Composite)
Source Code	53

Profile	PM10
Location	Laboratory
Control	Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Total OC	3.4006	0.1700		
Elemental Carbon				
EC1	0.5844	0.0292		
EC2	0.1564	0.0078		
EC3	0.0332	0.0017		
Total EC	0.7739	0.0387		
Total Carbon	4.1745	0.2087		
Identified percentage of total mass	12.8030			

Molecular Marker				
n- Hentriacontane	0.0018	0.0002		
n-Tritriacontane	0.0018	0.0002		
n- Pentatriacontane	0.0018	0.0002		
Hexadecanamide	0.0018	0.0002		
Octadecanamide	0.0018	0.0002		
Benzo[b]fluoranthene	0.0018	0.0002		
Benzo[k]fluoranthene	0.0018	0.0002		
Benzo[e]pyrene	0.0018	0.0002		
Indeno[1,2,3-cd]fluoranthene	0.0018	0.0002		
Indeno[1,2,3-cd]pyrene	0.0018	0.0002		
Picene	0.0018	0.0002		
Coronene	0.0018	0.0002		

Source Name	UnPaved Road-Pune (Composite)
Source Code	53

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0023	0.0028	0.0057	0.0049
Al	0.1275	0.0091	0.1215	0.0087
As	0.0085	0.0029	0.0070	0.0046
Ba	0.0191	0.0014	0.0199	0.0015
Ca	5.0712	0.3590	6.0381	0.4277
Cd	0.0015	0.0003	0.0017	0.0004
Ce	0.0064	0.0061	0.0063	0.0105
Co	0.0011	0.0007	0.0017	0.0012
Cr	0.0144	0.0012	0.0084	0.0009
Cu	0.0222	0.0018	0.0174	0.0016
Fe	7.2180	0.5108	6.7152	0.4755
Ga	0.0011	0.0045	0.0086	0.0082
Hf	0.0015	0.0018	0.0044	0.0032
Hg	0.0213	0.0020	0.0143	0.0020
In	0.0140	0.0060	0.0137	0.0099
K	0.2742	0.0381	0.2605	0.0528
Lu	0.0001	0.0001	0.0002	0.0001
Mg	1.9001	0.1347	1.7909	0.1272
Mn	0.1245	0.0089	0.1164	0.0083
Mo	0.0017	0.0008	0.0033	0.0014
Na	0.2939	0.0231	0.2910	0.0247
Ni	0.0233	0.0058	0.0209	0.0089
P	0.0361	0.0057	0.0448	0.0088
Pb	0.0091	0.0048	0.0097	0.0081
Pd	0.0079	0.0028	0.0065	0.0044
Sb	0.0051	0.0026	0.0129	0.0048
Sc	0.0016	0.0002	0.0014	0.0003
Se	0.0080	0.0026	0.0165	0.0047

Source Name	UnPaved Road-Pune (Composite)
Source Code	53

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Si	0.0497	0.0047	0.0319	0.0044
Sm	0.0040	0.0029	0.0070	0.0051
Sn	0.0264	0.0029	0.0279	0.0037
Sr	0.0158	0.0011	0.0154	0.0011
Th	0.0064	0.0012	0.0064	0.0018
Ti	0.2482	0.0177	0.2057	0.0147
V	0.0044	0.0015	0.0178	0.0032
W	0.0046	0.0040	0.0098	0.0070
Y	0.0018	0.0003	0.0013	0.0004
Zn	0.0165	0.0013	0.0094	0.0008
Zr	0.0063	0.0007	0.0057	0.0008
ANIONS				
F	0.3564	0.0260	0.0595	0.0062
Cl	0.0500	0.0315	0.0873	0.0627
NO2	0.0096	0.0007	0.0193	0.0014
Br	0.0049	0.0035	0.0098	0.0071
NO3	0.0096	0.0069	0.0193	0.0138
PO4	0.0045	0.0032	0.0091	0.0065
SO4	0.1464	0.0137	0.2592	0.0247
CATIONS				
Na	0.0869	0.0730	0.0913	0.1426
NH4	0.0435	0.0313	0.0876	0.0630
K	0.0782	0.0562	0.1574	0.1131
Ca	2.3792	0.2483	2.8739	0.3715
Mg	0.0473	0.0291	0.1158	0.0597
Organic Carbon				
OC1	0.0284	0.0014	0.0802	0.0040
OC2	0.3228	0.0161	0.4457	0.0223
OC3	1.1212	0.0561	1.3213	0.0661

Source Name	UnPaved Road-Pune (Composite)
Source Code	53

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
OC4	1.7477	0.0874	1.7961	0.0898
OP	0.0000	0.0000	0.0000	0.0000
Total OC	3.2202	0.1610	3.6433	0.1822
Elemental Carbon				
EC1	0.7694	0.0385	0.7229	0.0361
EC2	0.5257	0.0263	0.5925	0.0296
EC3	0.1497	0.0075	0.1161	0.0058
Total EC	1.4448	0.0722	1.4315	0.0716
Total Carbon	4.6649	0.2332	5.0748	0.2537
Identified percentage of total mass	23.4814		24.7614	
Molecular Marker				
n- Hentriacontane	0.0037	0.0004		
n-Tritriacontane	0.0037	0.0004		
n- Pentatriacontane	0.0037	0.0004		
Hexadecanamide	0.0037	0.0004		
Octadecanamide	0.0037	0.0004		
Benzo[b]fluoranthene	0.0092	0.0009		
Benzo[k]fluoranthene	0.0037	0.0004		
Benzo[e]pyrene	0.0194	0.0019		
Indeno[1,2,3-cd]fluoranthene	0.0037	0.0004		
Indeno[1,2,3-cd]pyrene	0.0037	0.0004		
Picene	0.0037	0.0004		
Coronene	0.0037	0.0004		

Source Name	Wood Residue Combustion in Boilers/Bakeries
Source Code	11

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Elements				
Ag	0.0123	0.0080	0.0105	0.0098
Al	0.0209	0.0017	0.0173	0.0016
As	0.0101	0.0072	0.0123	0.0090
Ba	0.0263	0.0020	0.0300	0.0023
Ca	3.1176	0.2216	3.4099	0.2425
Cd	0.0006	0.0005	0.0169	0.0017
Ce	0.0283	0.0178	0.0263	0.0216
Co	0.0027	0.0020	0.0034	0.0024
Cr	0.0041	0.0009	0.0120	0.0016
Cu	0.0558	0.0045	0.0435	0.0038
Fe	0.0176	0.0027	0.2136	0.0168
Ga	0.0161	0.0132	0.0079	0.0158
Hf	0.0189	0.0058	0.0179	0.0070
Hg	0.0027	0.0020	0.0034	0.0024
In	0.0517	0.0175	0.0754	0.0225
K	27.5540	1.9920	39.9724	2.8808
Lu	0.0003	0.0002	0.0008	0.0003
Mg	1.3332	0.0952	1.4795	0.1057
Mn	0.0177	0.0015	0.0173	0.0015
Mo	0.0168	0.0030	0.0241	0.0039
Na	4.4281	0.3193	4.3809	0.3175
Ni	0.0063	0.0128	0.0084	0.0160
P	0.1995	0.0234	0.1839	0.0239
Pb	0.1516	0.0217	0.3668	0.0393
Pd	0.0124	0.0072	0.0072	0.0085
Sb	0.0172	0.0075	0.0154	0.0090
Sc	0.0005	0.0003	0.0006	0.0004
Se	0.0610	0.0096	0.0730	0.0118
Si	0.0890	0.0097	0.1570	0.0153
Sm	0.0113	0.0081	0.0140	0.0101
Sn	0.2166	0.0178	0.2492	0.0207
Sr	0.0665	0.0048	0.0607	0.0043
Th	0.0047	0.0026	0.0155	0.0038
Ti	0.0026	0.0006	0.0184	0.0018
V	0.0394	0.0059	0.0499	0.0073
W	0.0337	0.0123	0.0337	0.0148
Y	0.0007	0.0005	0.0005	0.0006

Source Name	Wood Residue Combustion in Boilers/Bakeries
Source Code	11

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Zn	0.0781	0.0058	0.1116	0.0082
Zr	0.0025	0.0009	0.0025	0.0011
ANIONS				
F	0.0309	0.0044	0.1076	0.0104
Cl	14.6499	1.0819	14.8362	1.1082
NO2	1.1806	0.0835	0.3788	0.0268
Br	0.0334	0.0090	0.0330	0.0109
NO3	0.1683	0.0246	0.2940	0.0375
PO4	0.0099	0.0071	0.0126	0.0091
SO4	10.6344	0.7583	11.7600	0.8396
CATIONS				
Na	4.8510	0.4623	5.3010	0.5285
NH4	0.0958	0.0688	0.1220	0.0877
K	22.8274	1.6973	27.0551	2.0193
Ca	1.8006	0.3241	1.2130	0.3450
Mg	0.9056	0.1182	0.6226	0.1143
Organic Carbon				
OC1	0.2796	0.0140	0.5244	0.0262
OC2	1.1358	0.0568	1.8703	0.0935
OC3	2.2940	0.1147	3.1696	0.1585
OC4	2.2516	0.1126	2.4117	0.1206
OP	0.0000	0.0000	0.0000	0.0000
Total OC	5.9610	0.2980	7.9760	0.3988
Elemental Carbon				
EC1	1.7839	0.0892	2.0932	0.1047
EC2	0.2270	0.0114	1.3342	0.0667
EC3	0.2191	0.0110	1.3507	0.0675
Total EC	2.2301	0.1115	5.5634	0.2782
Total Carbon	8.1910	0.4096	12.7540	0.6377
Identified percentage of total mass	103.1080		125.6341	
Molecular Markers				
n- Hentriacontane	0.0098	0.0010		
n-Tritriacontane	0.0098	0.0010		
n- Pentatriacontane	0.0098	0.0010		

Source Name	Wood Residue Combustion in Boilers/Bakeries
Source Code	11

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

Species	PMx	Uncertainty	PMx	Uncertainty
	x=10µm	± (%)	x=2.5µm	± (%)
Hexadecanamide	0.0098	0.0010		
Octadecanamide	0.2914	0.0291		
Benzo[b]fluoranthene	0.0098	0.0010		
Benzo[k]fluoranthene	0.0098	0.0010		
Benzo[e]pyrene	0.0098	0.0010		
Indeno[1,2,3-cd]fluoranthene	0.0098	0.0010		
Indeno[1,2,3-cd]pyrene	0.0098	0.0010		
Picene	0.0098	0.0010		
Coronene	0.0098	0.0010		