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GEMS: Global Environment Monitoring System

**AIR QUALITY IN  
SELECTED URBAN AREAS  
1983-1985**



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AIR QUALITY IN SELECTED URBAN AREAS, 1983 - 1985

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 Washington, D.C. USA

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## 1. WHO/UNEP AIR QUALITY MONITORING PROJECT

The WHO air quality monitoring project began operation in 1973. It is a cooperative undertaking in which Member States contribute data from a number of urban air monitoring stations. These are either existing stations which belong to a national or local network or stations which have been set up with resources made available under the project. In addition, air monitoring data are now also being received direct from the Commission of the European Communities. All data are stored in a data bank operated by the US Environmental Protection Agency. Summaries of data are prepared at regular intervals.

Air quality data for the periods 1973-1974, 1975-1976, 1977-1978, 1979-1980, 1981 and 1982 have been reported in earlier publications (see section 3). For further information on the objectives of the project, the selection of monitoring sites, and data processing procedures the reader is referred to the first of these publications. The air quality monitoring project provides an input to the Global Environmental Monitoring System (GEMS). Supported by the Environment Fund of the United Nations Environment Programme (UNEP), it began operation on a much broader scale in 1975. At the present time some 50 countries, and about 150 monitoring stations, are participating in the project (see map overleaf).

## 2. PRESENTATION OF DATA

The data are shown as cumulative frequency distributions. Information on sampling site location, minimum and maximum concentrations, arithmetic and geometric means, and standard deviations is also given. For each city the analytical method used (summarized in section 5) is shown at the top of each table.

The cumulative frequency distributions are presented in terms of the 10th, 20th . . . ., 90th, 95th, and 98th percentiles. As an example, consider the cumulative frequency distribution of sulfur dioxide for Sydney, for site 001 in 1983. The entry in the 90th percentile column is 55, that is to say, for 90% of the 308 samples analysed (i.e. for 277 samples) the concentration of sulfur dioxide did not exceed 55  $\mu\text{g}/\text{m}^3$ ; conversely for 10% of the samples (i.e. for 31 samples) the sulfur dioxide concentration was higher than 55  $\mu\text{g}/\text{m}^3$ . Zero values are marked in the frequency distribution as LD (lower discrimination). In cases where the 50th percentile is marked LD, no arithmetic or geometric means are calculated. For Soiling Index data which was reported in COHS/1000 linear feet, a conversion factor of 75 was used to convert to micrograms per cubic metre.

A manual outlining procedures for analysing and interpreting air monitoring data was produced in 1980 (see section 3). In that publication examples are given using GEMS data from London and Zagreb. It is hoped that the manual will promote effective communication at the national level between air monitoring personnel and experts in allied fields such as statistics and meteorology.

3. PROJECT DOCUMENTATION

(a) GUIDELINE DOCUMENTS

Selected methods of measuring air pollutants  
WHO Offset Publication No. 24, 1976  
Air monitoring programme design for urban and industrial areas  
WHO Offset Publication No. 33, 1977  
Analysing and interpreting air monitoring data  
WHO Offset Publication No. 51, 1980  
Estimating human exposure to air pollutants  
WHO Offset Publication No. 69, 1980  
Guidelines for integrated air, water, food and biological  
exposure monitoring  
WHO Int. Rept. PEP/86.6

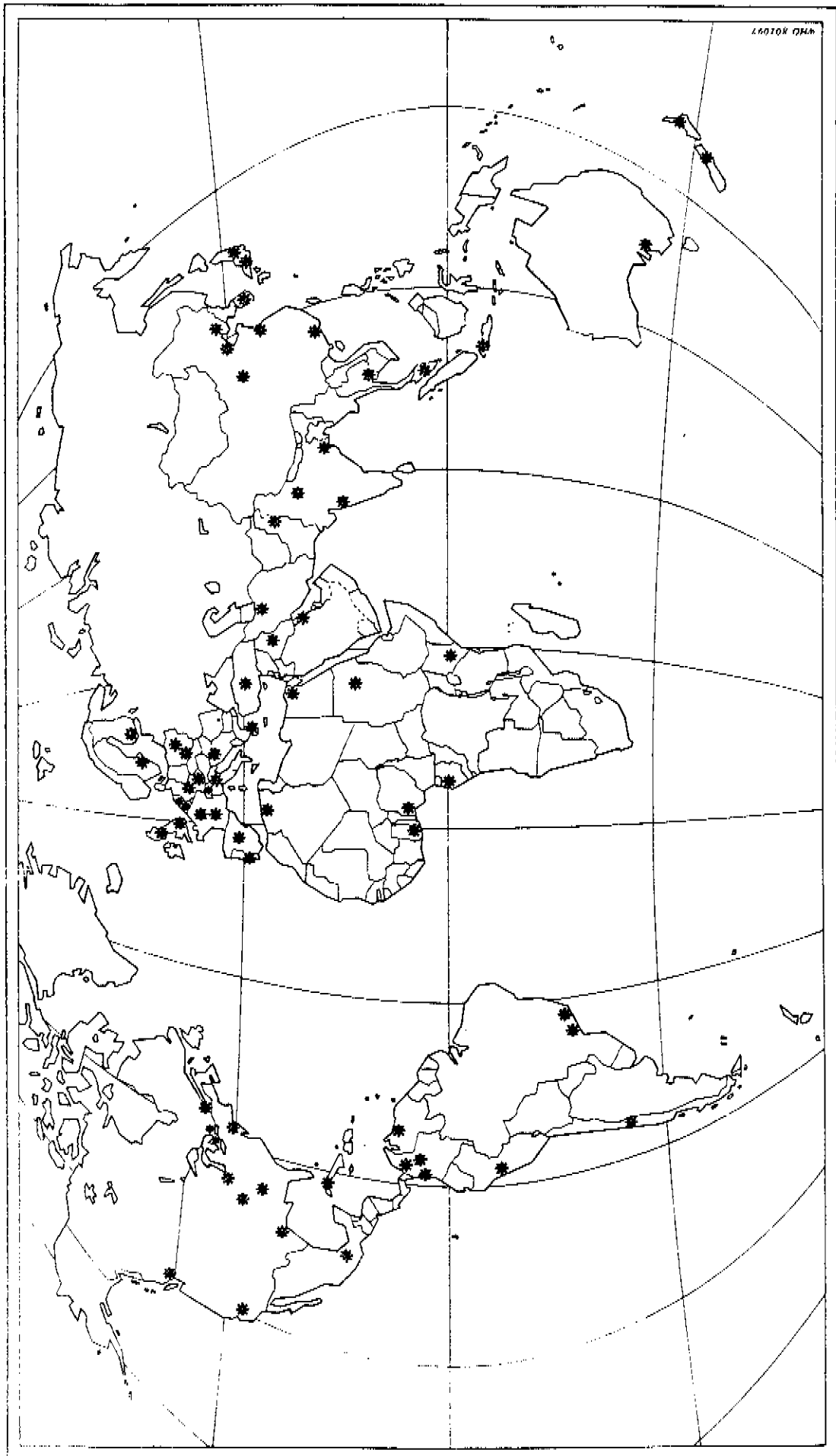
(b) DATA REPORTS

Air quality in selected urban areas - 1974-1974  
WHO Offset Publication No. 30, 1976  
Air quality in selected urban areas - 1975-1976  
WHO Offset Publication No. 41, 1978  
Air quality in selected urban areas - 1977-1978  
WHO Offset Publication No. 57, 1980  
Air quality in selected urban areas - 1979-1980  
WHO Offset Publication No. 76, 1983  
Urban air pollution, 1973-1980  
World Health Organization, Geneva, 1984  
Air quality in selected urban areas - 1981  
WHO Int. Doc. PEP/86.4  
Air quality in selected urban areas - 1982  
WHO Int. Doc. PEP/86.5  
Global pollution and health  
WHO, 1987

(c) SURVEY REPORTS

Human exposure to carbon monoxide and suspended  
particulate matter in Zagreb, Yugoslavia  
WHO Int. Rept. EFP/82.33  
Human exposure to SO<sub>2</sub>, NO<sub>2</sub> and suspended  
particulate matter in Toronto, Canada  
WHO Int. Rept. EFP/82.38  
Human exposure to suspended particulate matter and  
and sulfate in Bombay, India  
WHO Int. Rept. EFP/84.66  
Human exposure to carbon monoxide and suspended  
particulate matter in Beijing, China  
WHO Int. Rept. PEP/85.11  
Urban air pollution in the People's Republic of China  
WHO Int. Doc. EHE/EFP/85.5  
Indoor air pollution study, Maragua, Kenya  
WHO Int. Doc. WHO/PEP/87.1 and WHO/RSD/87.32  
Indoor air quality in the Basse area, The Gambia  
WHO Int. Doc. WHO/PEP/88.3 and WHO/RSD/87.34  
Air pollution in African villages and cities  
WHO/PEP/88.8

MONITORING LOCATIONS, WHO/UNEP AIR MONITORING PROJECT



#### 4. WHO COLLABORATING CENTRES ON AIR POLLUTION

WHO Collaborating Centre on Air Pollution for the South-East Region	National Environmental Engineering Research Institute, Nagpur, India.
WHO Collaborating Centre on Air Pollution for the Western Pacific Region	Institute of Public Health, Tokyo, Japan.
WHO Collaborating Centre on Environmental Pollution Control	United States Environmental Protection Agency, Washington, DC, USA.
WHO Collaborating Centre on Regional Air Pollution Problems	Central Institute for Advanced Medical Training, Moscow, USSR.
Western Collaborating Centre on Air Pollution Monitoring for the Western Pacific Region	Queensland Air Pollution Control Division, Brisbane, Australia.
Western Pacific Regional Centre for the Promotion of Environmental Planning and Applied Studies	Kuala Lumpur, Malaysia.
Pan American Center for Sanitary for Sanitary Engineering and Environmental Sciences.	Lima, Peru.

#### 5. SUMMARY OF MEASUREMENT METHODS<sup>1</sup>

##### Flame photometry or gas chromatography-flame photometry

The flame photometric detector uses a photomultiplier tube to measure the emissions from sulfur compounds introduced into a hydrogen-rich flame. The method can be used either to measure total sulfur (which is generally equivalent to the SO<sub>2</sub> concentration in the vicinity of the station) or, for specialized applications, in conjunction with gas chromatography to measure concentrations of various sulfur-containing compounds in the atmosphere.

##### Acidimetric titration method for sulfur dioxide

Air is bubbled through 0.5% hydrogen peroxide solution adjusted to pH 4.5. Any sulfur dioxide present forms sulfuric acid, which is titrated against standard alkali. Usually an air sample of about 2 m<sup>3</sup> is collected per day. Assuming that sulfuric acid is the only acid present, the concentration of sulfur dioxide in the air can be calculated.

##### Amperometric ("coulometric") method for sulfur dioxide

Air is passed through a cell containing a neutral buffered iodide or bromide electrolyte where an electrical current maintains a constant concentration of free I<sub>2</sub> or Br<sub>2</sub>. When SO<sub>2</sub> in the air samples reacts with the I<sub>2</sub> or Br<sub>2</sub>, the change in electrical current necessary to restore or maintain the original concentration of I<sub>2</sub> or Br<sub>2</sub> is a quantitative measure

<sup>1</sup> More complete descriptions of some of these methods are given in: Selected methods of measuring air pollutants. Geneva, World Health Organization, 1976 (WHO Offset Publication No. 24).

of the SO<sub>2</sub> input. If the rate of air flowing through the cell is constant, the SO<sub>2</sub> concentration can be related to an electrical signal by dynamic calibration with known SO<sub>2</sub> concentration standards.

#### Colorimetric (pararosaniline) method for sulfur dioxide (West-Gaeke method)

In the instrumental pararosaniline method, SO<sub>2</sub> is absorbed continuously in dilute aqueous dipotassium tetrachloromercurate (1-) solution to form the non-volatile dichloro-sulfitomercurate ion, which then reacts with formaldehyde and bleached pararosaniline to form red-purple pararosaniline methyl sulfonic acid. The sampling rate may vary from 0.2 to 1.0 litre per minute, depending on the length of the sampling period. This reaction is specific for SO<sub>2</sub> and sulfite salts. The colour intensity of the dye, which is proportional to the concentration of SO<sub>2</sub>, is measured at a wavelength of 560 nm.

#### Colorimetric (thorin) method for sulfur dioxide

In this method the SO<sub>2</sub> contained in the air sample is absorbed and oxidized in an acidified hydrogen peroxide solution. For the analysis, Ba(ClO<sub>4</sub>)<sub>2</sub> is added in excess to precipitate the sulfate as barium sulfate in an organic solvent. The excess concentration of barium ions in the solution is determined spectrophotometrically, through the reaction with thorin (the sodium salt of 4-(2-arsenophenylazo)-3-hydroxy-2, 7-naphthalene-disulfonic acid). The range is 0.1 to 8 mg SO<sub>2</sub> per litre of absorbing solution.

#### Conductometric method for sulfur dioxide

Samples are collected at field stations and taken to a central laboratory for conductometric analysis. This analysis is based on the oxidation of SO<sub>2</sub> to sulfuric acid by aqueous hydrogen peroxide and the subsequent measurement of the increased electric conductivity of the solution. Usually, an air sample of about 2 m<sup>3</sup> is collected per day. Special precautions should be taken to eliminate other pollutants that could affect the conductivity of the solution (e.g. HCl, HNO<sub>3</sub>).

#### Pulsed fluorescence

Sulfur dioxide has a fluorescence band centred near 340 nm. The fluorescence is sensitive to atmospheric pressure. Current fluorescence SO<sub>2</sub> analysers use a pulsed lamp as an excitation source to achieve greater sensitivity. The fluorescence is measured with a photomultiplier and related directly to the concentration of SO<sub>2</sub> in the atmosphere.

#### High-volume sampler

Suspended particulate matter is collected by means of a high-volume sampler. The sampler consists of a motor and blower enclosed in a shelter. The filter surface is arranged horizontally, facing upwards, and is protected by a roof that keeps out rain and snow and generally prevents the collection of particles larger than about 100 µm. Filters are made of glass or synthetic organic fibre. The air flow rates range from 1.1 to 1.7 m<sup>3</sup> per minute. The amount of suspended particulate matter is calculated by dividing the net weight of the particulate by the total air volume sampled.

### Tape sampler - transmission

The sampler consists of a tape of filter-paper, an intake tube, and a pump. Successive areas of the paper are positioned and clamped between the intake tube and the pump connexion. Air is drawn through the filter for a selected length of time, usually 1-4 hours. An unused portion of tape is then moved into position and sampling is resumed. The rate of air flow can be regulated and usually ranges from 4.2 to 5.7 m<sup>3</sup> per hour. The samples are evaluated by comparing the transmittance of light through both filter and deposit with the transmittance through a clean portion of filter. In the countries in which this method is used, transmittance is usually converted into coefficient of haze (COH) units per thousand linear feet (304.8 m) of air passing through the filter.

### Nephelometry

Several instruments have been designed for assessing suspended particulate matter by measuring the light scattered by the particles in a given volume of air. The integrating nephelometer draws in a sample of particle-laden air and measures the scattered light over all scattering angles. The measurement is expressed as the "scattering coefficient", which is defined as "the reciprocal of the distance in which 63% of the light is lost from a light beam by scattering". The scattering coefficient is related to visibility ("local visual distance") and, under some conditions, can be related to the mass concentration of suspended particulates when the air is sufficiently dry.

### Smoke-shade method

When air is drawn through a filter-paper, smoke particles suspended in the air are retained on the paper, forming a stain. "Smoke" is considered to include particles of roughly 10 µm diameter or less. The density of the stain depends partly on the mass of smoke particles collected and partly on the nature of the smoke. The concentration of smoke in the atmosphere can be estimated by drawing a known volume of air through a filter-paper and measuring the density of the resulting stain with a photoelectric reflectometer. Usually, about 2 m<sup>3</sup> of air are sampled per day. A calibration curve relating the density of the filter stain to the weight of smoke particles deposited on the filter-paper has been established for "standard urban smoke". Thus the concentration of smoke per unit volume of air can be calculated and expressed in terms of the "standard smoke" equivalent.

\* \* \* \* \*

6. SULFUR DIOXIDE DATA

AUSTRALIA		POLLUTANT - 42401 - SULFUR DIOXIDE											MELBOURNE							
		METHOD - 96 - MANUAL FLAME PHOTOMETRIC																		
		UNITS - 01 - UG/CU METRE (25 C)																		
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC			
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	GEOMETRIC	MEAN	STD	MEAN	STD
SITE 001		-----																		
CENTRE CITY																				
COMMERCIAL		83	168	LD	LD	LD	LD	LD	LD	LD	LD	LD	26	26	-	-	-	-	-	-
		84	157	LD	LD	LD	LD	26	26	26	26	26	26	26	-	-	-	-	-	-
AUSTRALIA		POLLUTANT - 42401 - SULFUR DIOXIDE											SYDNEY							
		METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE																		
		UNITS - 01 - UG/CU METRE (25 C)																		
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC			
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	GEOMETRIC	MEAN	STD	MEAN	STD
SITE 001		-----																		
CENTRE CITY																				
COMMERCIAL		83	308	10	20	25	35	35	40	45	55	60	65	95	34.5	13.9	31.7	1.53		
		84	342	LD	15	20	25	30	30	35	45	55	70	90	28.5	13.9	25.4	1.66		
		85	338	LD	10	15	20	20	25	25	30	35	40	55	20.7	8.9	18.6	1.63		
SITE 002		-----																		
SUBURBAN																				
RESIDENTIAL		83	337	LD	5	5	5	10	10	10	15	25	45	80	9.9	10.8	7.4	1.98		
		84	325	LD	LD	5	5	5	5	10	10	10	15	40	6.0	3.8	5.3	1.66		
		85	295	LD	LD	5	5	5	5	5	10	10	10	15	5.1	2.4	4.6	1.53		
SITE 003		-----																		
SUBURBAN																				
INDUSTRIAL		83	365	LD	5	10	15	15	20	30	40	50	60	110	18.7	15.9	13.8	2.18		
		84	362	LD	5	5	10	10	10	15	20	25	30	90	11.1	7.9	9.3	1.80		
		85	335	5	5	10	15	15	20	20	25	25	35	105	15.3	10.6	13.1	1.70		
BELGIUM		POLLUTANT - 42401 - SULFUR DIOXIDE											BRUSSELS							
		METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE																		
		UNITS - 01 - UG/CU METRE (25 C)																		
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC			
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	GEOMETRIC	MEAN	STD	MEAN	STD
SITE 001		-----																		
CENTRE CITY																				
COMMERCIAL		83	293	7	24	40	50	55	64	80	101	118	160	281	58.8	37.1	50.0	1.77		
SITE 002		-----																		
SUBURBAN																				
RESIDENTIAL		83	333	LD	15	26	32	38	46	57	76	96	120	166	41.0	26.6	33.9	1.87		
		84	317	5	15	22	28	32	38	46	57	78	87	109	33.7	19.1	29.2	1.71		
		85	327	5	12	18	23	26	31	45	66	100	130	1185	38.9	90.7	26.0	2.04		
SITE 003		-----																		
SUBURBAN																				
INDUSTRIAL		83	336	LD	10	21	31	36	44	56	68	82	96	120	36.1	23.3	28.7	2.08		
		84	333	LD	15	23	32	38	42	52	64	78	86	139	36.4	20.7	30.8	1.83		
		85	353	LD	14	22	31	37	46	56	74	91	119	178	39.3	27.5	31.8	1.93		
SITE 004		-----																		
CENTRE CITY																				
COMMERCIAL		83	358	LD	14	23	31	36	43	52	68	86	105	137	37.6	24.2	30.5	2.00		
		84	331	LD	21	32	40	46	56	61	75	91	103	125	45.6	22.4	40.4	1.67		
		85	355	LD	18	25	33	38	47	58	97	125	169	231	45.7	36.8	36.1	1.92		

BRAZIL

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

SAO PAULO

SITE 006 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	49	7	11	18	24	28	31	36	46	56	58	61	27.5	13.5	24.3	1.68
	84	43	14	19	23	29	31	33	41	56	69	76	83	33.4	16.2	30.4	1.51

BRAZIL

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

SAO PAULO

SITE 002 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	23	51	70	86	94	106	120	142	158	186	271	91.7	36.8	84.8	1.49
	84	365	14	38	53	65	73	85	97	119	136	148	183	72.6	31.3	66.3	1.53
	85	362	10	29	38	46	52	59	67	82	98	107	128	51.2	21.3	47.2	1.49

SITE 005  
CENTRE CITY  
MOBILE

	83	362	24	51	69	83	91	98	113	132	143	157	195	87.0	30.7	81.6	1.44
	84	362	10	37	51	64	73	82	95	113	130	160	210	70.6	31.8	64.0	1.57
	85	363	17	27	36	42	48	55	64	77	97	110	151	49.1	22.2	45.0	1.50

SITE 006  
CENTRE CITY  
RESIDENTIAL

	83	365	10	29	42	52	59	65	72	85	96	116	133	55.6	22.6	51.0	1.54
	84	366	5	24	35	45	51	57	65	79	89	103	335	48.9	25.9	43.8	1.61
	85	363	5	17	25	31	34	38	43	53	65	71	87	33.5	14.7	30.5	1.55

CANADA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

HAMILTON

SITE 001 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	353	LD	LD	LD	LD	LD	LD	52	79	105	131	157	-	-	-	-
	84	259	LD	LD	LD	LD	LD	52	79	79	105	131	183	-	-	-	-

SITE 002  
CENTRE CITY  
COMMERCIAL

	83	354	LD	LD	LD	LD	LD	52	52	79	79	105	105	-	-	-	-
	84	353	LD	LD	LD	LD	LD	52	52	79	105	131	183	-	-	-	-
	85	349	LD	LD	LD	LD	LD	52	52	79	79	157	-	-	-	-	

SITE 003  
SUBURBAN  
RESIDENTIAL

	84	69	LD	LD	LD	LD	LD	52	52	52	79	79	105	-	-	-	-
	85	338	LD	LD	LD	LD	LD	52	52	79	79	105	157	-	-	-	-

CANADA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

MONTREAL

SITE 001 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	338	LD	LD	LD	LD	LD	LD	LD	52	52	79	131	-	-	-	-
	84	260	LD	LD	LD	LD	LD	LD	LD	52	79	79	105	131	-	-	-
	85	337	LD	LD	LD	LD	LD	LD	LD	52	52	52	131	-	-	-	-

## CANADA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

## MONTREAL

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002 SUBURBAN	83	320	LD	LD	LD	LD	LD	52	79	105	131	183	367	-	-	-	-
	84	276	LD	LD	LD	LD	LD	LD	52	79	79	105	183	-	-	-	-
	85	320	LD	LD	LD	LD	52	52	79	131	131	183	236	-	-	-	-
SITE 003 CENTRE CITY COMMERCIAL	83	326	LD	LD	LD	LD	LD	LD	LD	52	52	105	-	-	-	-	
	84	188	LD	LD	LD	LD	LD	LD	LD	52	79	79	105	-	-	-	-
	85	172	LD	LD	LD	LD	LD	LD	52	52	52	79	79	-	-	-	-

## CANADA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

## TORONTO

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC			
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD	
SITE 001 SUBURBAN INDUSTRIAL	83	362	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	79	-	-	-	-	
	84	351	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	79	105	-	-	-	-
	85	336	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	79	-	-	-	-	
SITE 002 SUBURBAN RESIDENTIAL	83	339	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	105	-	-	-	-	
	84	350	LD	LD	LD	LD	LD	LD	LD	LD	52	52	131	-	-	-	-	
	85	354	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	79	-	-	-	-	
SITE 004 CENTRE CITY COMMERCIAL	83	359	LD	LD	LD	LD	LD	LD	LD	LD	52	52	131	-	-	-	-	
	84	361	LD	LD	LD	LD	LD	LD	LD	LD	52	79	210	-	-	-	-	
	85	354	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	79	-	-	-	-	

## CANADA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

## VANCOUVER

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002 CENTRE CITY RESIDENTIAL	83	307	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	-	-	-	-
	84	326	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	-	-	-	-
	85	222	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	-	-	-	-
SITE 006 CENTRE CITY COMMERCIAL	83	257	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	52	-	-	-	-
	84	297	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	13	-	-	-	-
	85	100	LD	LD	LD	LD	LD	LD	LD	LD	79	105	131	-	-	-	-

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE BEIJING  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
INDUSTRIAL	83	176	6	6	6	37	56	81	108	174	210	278	326	62.7	73.7	27.5	4.00
	84	76	6	6	27	46	81	113	139	169	195	258	310	78.8	70.6	45.9	3.28
SITE 002																	
CENTRE CITY																	
COMMERCIAL	83	165	LD	6	28	57	80	140	214	288	382	549	628	115.1	135.7	53.5	3.90
	84	86	6	16	38	78	148	167	239	292	358	430	467	130.1	118.5	75.1	3.32
SITE 003																	
SUBURBAN																	
RESIDENTIAL	83	161	LD	6	6	6	6	16	26	48	74	104	161	18.5	25.8	10.2	2.69
	84	80	6	6	6	15	20	31	56	70	76	104	126	27.5	28.6	16.3	2.80
SITE 004																	
CENTRE CITY																	
RESIDENTIAL	83	156	6	8	28	51	73	134	265	376	465	515	636	127.7	153.2	57.6	3.87
	84	78	6	6	23	66	148	252	294	407	431	544	886	161.1	184.9	65.5	4.76

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE GUANGZHOU  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
RESIDENTIAL	83	164	6	45	74	95	107	120	134	151	164	194	253	98.8	43.1	87.9	1.72
	84	159	6	6	20	42	69	98	121	151	175	206	269	66.8	59.6	39.9	3.08
	85	165	5	6	6	6	6	16	22	29	35	50	70	13.1	11.8	9.8	2.01
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	173	6	24	48	57	62	70	78	104	125	152	200	61.4	32.7	53.3	1.75
	84	170	6	32	58	81	97	119	133	153	217	238	320	93.2	58.1	74.7	2.08
	85	167	56	89	113	139	153	173	209	242	280	297	387	154.1	61.5	143.2	1.46
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	172	6	41	70	94	106	120	137	176	215	245	401	103.8	58.7	88.3	1.84
	84	163	6	30	55	73	78	89	110	131	155	197	238	78.0	42.5	66.7	1.81
	85	173	6	24	38	51	57	63	77	92	129	159	170	57.1	32.4	48.9	1.78
SITE 004																	
CENTRE CITY																	
INDUSTRIAL	83	162	6	6	6	12	16	20	25	31	37	43	75	15.4	11.6	11.9	2.04
	84	157	6	6	15	41	85	126	155	184	212	243	265	76.9	74.0	38.1	3.82
	85	160	48	80	116	141	156	173	200	227	240	274	336	149.1	55.3	138.7	1.48

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE SHANGHAI  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
INDUSTRIAL	83	176	LD	12	28	47	58	75	89	122	147	185	267	58.9	48.0	41.0	2.59
	84	86	LD	16	28	40	49	60	71	92	106	109	172	49.0	31.7	39.6	2.01

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE SHANGHAI  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	176	LD	34	52	69	77	89	109	129	153	176	250	77.1	42.2	66.1	1.82
	84	180	LD	5	20	63	79	96	115	140	169	190	229	67.8	55.3	39.3	3.48
	85	173	25	51	77	97	101	113	129	166	177	212	264	100.6	42.9	91.9	1.54
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	178	LD	7	18	32	41	56	73	114	142	170	243	48.0	46.4	29.7	2.93
	84	179	LD	15	26	41	49	56	69	86	105	129	167	46.9	31.0	37.2	2.08
	85	179	LD	6	20	35	48	59	85	132	168	197	346	55.0	57.7	32.1	3.08
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	178	LD	LD	LD	6	8	11	17	28	37	47	64	11.0	12.0	7.0	2.52
	84	178	LD	LD	7	13	15	19	23	31	48	54	129	16.4	15.6	11.4	2.40
	85	177	LD	LD	6	10	12	14	20	28	40	50	63	13.5	11.6	10.0	2.17

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE SHENYANG  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
RESIDENTIAL	83	144	LD	LD	16	50	78	171	251	396	441	546	957	131.5	167.4	41.4	6.13
	84	144	LD	LD	30	81	128	194	253	335	420	445	832	139.7	148.7	61.9	4.75
	85	144	LD	10	18	48	80	184	261	359	456	582	676	130.3	156.4	54.6	4.28
SITE 002																	
CENTRE CITY																	
INDUSTRIAL	83	144	7	33	122	208	260	332	414	571	656	879	1482	265.9	233.8	171.2	2.92
	84	144	LD	33	114	186	252	369	440	704	943	1193	1416	297.3	288.0	178.8	3.21
	85	144	9	46	111	242	278	436	578	915	1013	1266	1356	343.2	329.6	202.2	3.15
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	144	LD	LD	12	41	79	122	234	378	469	642	771	123.9	171.6	38.3	5.70
	84	72	LD	LD	6	22	30	55	129	177	195	236	283	58.0	71.2	22.3	4.69
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	144	LD	LD	LD	8	20	34	74	121	200	305	447	45.9	80.1	12.9	5.03
	84	72	LD	LD	LD	8	15	27	50	79	101	168	-	-	-	-	

PEOPLE'S REP. OF CHINA POLLUTANT - 42401 - SULFUR DIOXIDE XIAN  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
RESIDENTIAL	83	179	LD	LD	LD	17	25	35	64	108	145	198	373	38.2	56.0	13.6	4.67
	84	174	LD	LD	LD	13	20	45	77	107	130	138	168	34.3	43.1	12.4	4.67
	85	139	LD	LD	LD	12	15	24	47	76	99	115	216	26.9	36.3	11.1	4.00
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	185	LD	23	51	88	105	141	179	252	309	339	469	112.3	92.4	71.6	3.20
	84	172	LD	LD	35	69	99	126	166	221	253	292	333	94.5	81.8	50.2	4.15
	85	152	LD	LD	18	53	91	151	210	282	352	395	522	107.3	118.2	39.9	5.61

PEOPLE'S REP. OF CHINA			POLLUTANT - 42401 - SULFUR DIOXIDE										XIAN				
			METHOD - 91 - GAS BUBBLER PARAROSANILINE														
			UNITS - 01 - UG/CU METRE (25 C)														
SITE	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	187	LD	14	41	67	81	103	168	219	267	279	491	93.9	82.3	58.1	3.22
	84	171	LD	8	43	65	88	146	208	321	389	493	616	121.1	127.0	61.8	4.00
	85	152	LD	LD	22	66	91	164	240	306	360	409	930	120.6	137.5	47.1	5.39
SITE 004																	
SUBURBAN																	
INDUSTRIAL	83	182	LD	LD	LD	23	36	56	93	151	188	230	459	51.6	69.3	17.5	5.23
	84	171	LD	LD	LD	23	37	61	90	124	147	202	247	45.8	54.2	18.0	4.71
	85	150	LD	LD	LD	14	46	88	122	171	212	254	336	59.8	76.4	17.6	5.89
CHILE			POLLUTANT - 42401 - SULFUR DIOXIDE										SANTIAGO				
			METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE														
			UNITS - 01 - UG/CU METRE (25 C)														
SITE	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	343	18	37	63	82	97	114	134	173	204	230	267	94.7	52.3	81.2	1.77
	84	332	9	37	64	83	92	101	120	138	147	166	350	87.3	40.3	77.9	1.66
	85	359	10	37	55	74	74	83	92	111	120	129	157	71.9	27.3	66.1	1.54
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	352	5	23	34	40	46	53	61	74	82	107	177	45.6	22.5	40.6	1.65
	84	360	13	19	29	39	44	55	63	78	93	111	166	46.0	26.1	39.9	1.70
DENMARK			POLLUTANT - 42401 - SULFUR DIOXIDE										COPENHAGEN				
			METHOD - 98 - GAS BUBBLER THORIN														
			UNITS - 01 - UG/CU METRE (25 C)														
SITE	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	359	LD	LD	LD	LD	26	30	37	47	60	73	124	-	-	-	-
	84	114	LD	LD	LD	32	35	40	42	47	51	65	71	30.5	14.7	26.7	1.71
SITE 003																	
SUBURBAN																	
INDUSTRIAL	83	365	LD	LD	LD	LD	LD	27	34	45	56	70	123	-	-	-	-
	84	93	LD	LD	LD	31	36	38	42	51	58	60	66	29.5	15.9	25.1	1.80
FINLAND			POLLUTANT - 42401 - SULFUR DIOXIDE										HELSINKI				
			METHOD - 14 - INSTRUMENTAL COULOMETRIC														
			UNITS - 01 - UG/CU METRE (25 C)														
SITE	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 002																	
SUBURBAN																	
INDUSTRIAL	83	240	LD	LD	LD	LD	LD	32	38	54	78	102	164	-	-	-	-
	85	253	LD	LD	LD	LD	LD	30	39	51	63	91	241	-	-	-	-

FED REP GERMANY

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 13 - INSTRUMENTAL CONDUCTIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

FRANKFURT

SITE 002	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
CENTRE CITY																		
COMMERCIAL	83	288	LD	LD	29	42	50	60	73	97	116	157	213	50.4	36.2	39.2	2.08	
	84	327	LD	LD	29	42	48	59	70	90	107	134	228	48.0	34.3	37.7	2.05	
	85	315	LD	LD	27	47	58	71	97	158	224	293	478	68.1	72.2	43.7	2.56	

FED REP GERMANY

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 13 - INSTRUMENTAL CONDUCTIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

MUNICHEN

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
CENTRE CITY																		
COMMERCIAL	83	324	LD	LD	LD	LD	LD	LD	LD	48	73	98	209	-	-	-	-	

GREECE

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

ATHENS

SITE 002	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SUBURBAN																		
INDUSTRIAL	83	297	26	26	26	26	26	26	29	44	56	63	102	30.3	11.3	29.1	1.29	
	84	199	26	26	26	26	26	26	26	26	26	26	26	26.0	.0	26.0	1.00	
	85	163	20	26	26	26	26	26	26	26	28	33	53	26.4	2.5	26.3	1.07	
SITE 003																		
CENTRE CITY																		
COMMERCIAL	83	309	26	26	26	26	26	32	42	60	80	95	166	35.4	18.9	32.4	1.46	
	84	328	LD	26	26	26	26	31	40	56	71	86	145	34.4	18.1	31.6	1.47	
	85	286	LD	26	26	26	26	28	37	48	59	66	81	31.8	11.5	30.2	1.37	

HONG KONG

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

HONG KONG

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
CENTRE CITY																		
COMMERCIAL	83	360	LD	13	28	39	44	49	57	71	90	103	126	41.2	23.8	32.3	2.34	
	84	208	LD	LD	17	29	32	35	47	62	72	103	256	32.4	27.0	22.6	2.66	
SITE 002																		
SUBURBAN																		
INDUSTRIAL	83	364	LD	LD	LD	11	16	22	28	43	54	72	332	17.7	25.0	8.9	3.31	
	84	208	LD	LD	LD	11	12	16	24	36	55	64	94	15.5	16.6	9.3	2.82	

INDIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

BOMBAY

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
CENTRE CITY																		
COMMERCIAL	84	3	6	6	6	14	14	14	14	10	10	10	10	10.0	4.0	9.4	1.53	
	85	31	6	8	14	17	19	24	33	50	59	60	61	22.7	15.4	18.9	1.82	

INDIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

BOMBAY

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 004																	
SUBURBAN																	
RESIDENTIAL	84	30	6	6	8	10	13	15	20	21	41	41	61	14.8	11.5	12.3	1.78
	85	29	7	7	8	13	14	19	26	38	58	58	65	19.3	16.0	15.0	1.99
SITE 005																	
CENTRE CITY																	
COMMERCIAL	84	26	6	6	12	16	19	20	22	28	32	32	48	17.4	9.5	15.1	1.72
	85	30	6	7	13	21	25	28	47	53	58	58	78	27.4	18.4	22.0	2.00
SITE 006																	
CENTRE CITY																	
COMMERCIAL	84	26	6	6	6	9	11	14	17	20	27	27	27	11.9	6.7	10.4	1.68

INDIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

CALCUTTA

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
COMMERCIAL	84	32	LD	7	32	47	59	71	101	115	119	129	145	59.6	39.7	42.7	2.68
	85	30	16	17	26	37	45	62	77	109	132	132	164	54.5	40.1	43.0	1.99
SITE 003																	
SUBURBAN																	
INDUSTRIAL	84	19	7	8	42	61	68	76	80	97	111	116	116	60.1	32.2	48.4	2.21
	85	25	LD	16	36	57	74	81	82	99	101	116	116	57.1	32.5	44.3	2.40
SITE 004																	
SUBURBAN																	
RESIDENTIAL	84	28	LD	6	17	25	28	41	66	84	137	137	143	40.7	39.3	25.3	2.92
	85	31	6	8	19	24	35	36	49	71	102	133	140	36.1	33.9	25.7	2.30

INDIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

NEW DELHI

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
COMMERCIAL	84	29	7	23	45	68	75	83	108	133	136	136	280	79.2	53.1	63.5	2.09
	85	27	13	21	52	78	91	99	116	155	218	218	236	86.1	57.9	68.2	2.09
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	84	32	8	9	15	25	27	29	48	80	81	82	86	30.9	23.0	24.4	2.00
	85	25	7	11	16	30	34	41	56	62	65	80	80	33.3	20.6	27.1	1.99
SITE 003																	
CENTRE CITY																	
INDUSTRIAL	84	30	11	21	40	51	56	80	101	158	195	195	226	73.1	56.6	55.9	2.13
	85	27	16	20	32	56	59	76	101	111	121	121	172	62.4	39.5	51.1	1.93

INDONESIA			POLLUTANT - 42401 - SULFUR DIOXIDE										JAKARTA					
			METHOD - 91 - GAS BUBBLER PARAROSANILINE															
			UNITS - 01 - UG/CU METRE (25 C)															
SITE 001	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC			
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD		
CENTRE CITY			LD	LD	LD	LD	LD	LD	LD	LD	LD	6	6	7	-	-	-	-
RESIDENTIAL	83	29	LD	LD	LD	LD	LD	LD	LD	LD	6	6	7	-	-	-	-	

ISL.REP.IRAN			POLLUTANT - 42401 - SULFUR DIOXIDE										TEHRAN						
			METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE																
			UNITS - 01 - UG/CU METRE (25 C)																
SITE 001	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC				
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD			
CENTRE CITY			83	52	31	66	92	109	142	171	250	299	373	437	437	157.2	104.4	130.1	1.84
COMMERCIAL	84	66	21	43	56	70	79	100	146	167	203	594	618	103.0	102.9	79.4	1.94		
	85	49	22	33	53	75	87	101	109	166	207	234	409	91.6	68.1	74.5	1.88		
SITE 002																			
SUBURBAN																			
INDUSTRIAL	83	63	41	78	101	118	131	147	174	231	317	331	380	142.4	72.3	128.0	1.57		
	84	59	29	52	69	76	83	102	131	155	164	175	193	91.5	38.7	84.2	1.50		
	85	35	17	32	57	73	80	99	113	145	171	172	206	82.5	46.2	70.3	1.82		
SITE 003																			
SUBURBAN																			
RESIDENTIAL	83	66	15	46	60	65	74	85	142	168	198	224	231	89.4	53.3	76.2	1.76		
	84	63	9	16	33	44	53	59	68	87	117	124	184	51.3	31.4	43.2	1.83		
	85	35	14	16	23	43	45	49	58	83	93	102	137	44.2	27.7	37.1	1.83		

IRELAND			POLLUTANT - 42401 - SULFUR DIOXIDE										DUBLIN					
			METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE															
			UNITS - 01 - UG/CU METRE (25 C)															
SITE 001	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC			
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD		
CENTRE CITY																		
RESIDENTIAL	83	364	6	24	32	42	48	54	61	75	88	108	129	46.0	21.5	41.0	1.65	
	84	366	12	25	32	39	44	46	57	65	77	95	146	42.5	19.4	38.8	1.53	
	85	360	6	13	20	31	34	41	52	69	83	120	153	36.6	25.5	29.3	2.00	
SITE 002																		
CENTRE CITY																		
INDUSTRIAL	83	350	5	13	22	32	39	47	60	79	92	110	199	39.5	27.2	31.7	1.96	
	84	320	5	6	13	18	19	21	25	31	38	43	71	18.4	10.2	15.6	1.81	
	85	223	6	7	14	21	25	31	39	54	63	66	84	26.6	17.3	21.3	1.99	
SITE 003																		
SUBURBAN																		
RESIDENTIAL	83	353	5	14	23	31	35	40	48	65	75	95	123	35.2	20.7	29.8	1.82	
	84	349	6	16	23	29	31	36	42	49	57	78	114	31.9	16.3	28.3	1.64	
	85	347	5	7	14	22	27	31	36	45	47	54	66	24.4	13.6	20.3	1.91	

ISRAEL			POLLUTANT - 42401 - SULFUR DIOXIDE										TEL AVIV					
			METHOD - 14 - INSTRUMENTAL COULOMETRIC															
			UNITS - 01 - UG/CU METRE (25 C)															
SITE 001	YR	NO MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC			
			10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD		
CENTRE CITY																		
COMMERCIAL	83	55	LD	LD	LD	LD	LD	LD	LD	LD	56	83	91	-	-	-	-	
	84	179	LD	LD	LD	54	62	78	99	138	163	190	280	58.8	55.3	36.3	2.76	

ISRAEL			POLLUTANT - 42401 - SULFUR DIOXIDE										TEL AVIV					
			METHOD - 14 - INSTRUMENTAL COULOMETRIC															
			UNITS - 01 - UG/CU METRE (25 C)															
			PERCENTILES										MAX		ARITHMETIC		GEOMETRIC	
	YR	NO	MIN	10	30	50	60	70	80	90	95	98			MEAN	STD	MEAN	STD
SITE 002			-----															
CENTRE CITY																		
RESIDENTIAL	84	142	LD	LD	LD	LD	LD	LD	53	61	75	91	111	-	-	-	-	
SITE 003																		
CENTRE CITY																		
INDUSTRIAL	84	160	LD	LD	LD	LD	LD	LD	LD	LD	LD	53	97	-	-	-	-	
SITE 004																		
SUBURBAN																		
RESIDENTIAL	83	166	LD	LD	LD	LD	LD	LD	LD	LD	57	62	83	-	-	-	-	
	84	179	LD	LD	LD	LD	LD	LD	LD	55	67	90	150	-	-	-	-	
SITE 005																		
CENTRE CITY																		
RESIDENTIAL	83	136	LD	LD	LD	LD	LD	LD	52	64	83	128	135	-	-	-	-	
ITALY			POLLUTANT - 42401 - SULFUR DIOXIDE										MILAN					
			METHOD - 14 - INSTRUMENTAL COULOMETRIC															
			UNITS - 01 - UG/CU METRE (25 C)															
			PERCENTILES										MAX		ARITHMETIC		GEOMETRIC	
	YR	NO	MIN	10	30	50	60	70	80	90	95	98			MEAN	STD	MEAN	STD
SITE 001			-----															
CENTRE CITY																		
RESIDENTIAL	83	219	LD	LD	LD	44	68	117	192	299	426	588	863	113.1	150.2	52.2	3.52	
SITE 002																		
CENTRE CITY																		
COMMERCIAL	83	217	LD	LD	42	62	73	99	138	192	221	359	400	89.0	77.0	63.5	2.33	
JAPAN			POLLUTANT - 42401 - SULFUR DIOXIDE										OSAKA					
			METHOD - 13 - INSTRUMENTAL CONDUCTIMETRIC															
			UNITS - 01 - UG/CU METRE (25 C)															
			PERCENTILES										MAX		ARITHMETIC		GEOMETRIC	
	YR	NO	MIN	10	30	50	60	70	80	90	95	98			MEAN	STD	MEAN	STD
SITE 001			-----															
CENTRE CITY																		
COMMERCIAL	83	365	LD	LD	LD	28	31	35	39	47	51	58	71	26.7	14.1	23.1	1.72	
	84	366	LD	LD	LD	LD	30	32	36	43	48	56	62	-	-	-	-	
	85	358	LD	LD	LD	LD	27	30	34	41	46	49	65	-	-	-	-	
SITE 002																		
CENTRE CITY																		
INDUSTRIAL	83	365	LD	LD	LD	LD	29	33	38	47	53	58	81	-	-	-	-	
	84	366	LD	LD	LD	LD	28	31	34	40	47	53	60	27.2	14.5	23.5	1.72	
	85	365	LD	LD	LD	LD	27	30	34	37	45	50	55	77	25.8	13.6	22.4	1.70
SITE 003																		
SUBURBAN																		
RESIDENTIAL	83	364	LD	LD	LD	LD	LD	30	33	39	42	47	67	-	-	-	-	
	84	366	LD	LD	LD	LD	LD	30	35	41	46	52	62	-	-	-	-	
	85	365	LD	LD	LD	LD	LD	29	33	39	44	49	65	-	-	-	-	
SITE 004																		
CENTRE CITY																		
INDUSTRIAL	83	365	LD	LD	LD	28	31	35	40	54	57	65	85	28.1	16.0	23.9	1.76	
	84	367	LD	LD	LD	32	35	38	43	51	57	67	78	30.9	15.1	27.0	1.72	
	85	364	LD	LD	LD	31	34	37	42	49	55	64	79	29.5	15.0	25.6	1.73	

JAPAN

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 13 - INSTRUMENTAL CONDUCTIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

TOKYO

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	364	LD	LD	LD	LD	LD	29	32	39	45	52	80	-	-	-	-
	84	366	LD	LD	LD	LD	LD	29	33	42	51	64	84	-	-	-	-
	85	365	LD	LD	LD	LD	LD	LD	30	36	41	48	72	-	-	-	-
SITE 002																	
SUBURBAN																	
RESIDENTIAL	83	362	LD	LD	29	32	35	37	40	46	51	56	71	32.0	11.6	29.4	1.54
	84	362	LD	LD	31	36	39	41	45	50	58	70	81	35.4	13.7	32.3	1.58
	85	365	LD	LD	LD	LD	LD	29	35	39	45	50	70	-	-	-	-
SITE 003																	
CENTRE CITY																	
INDUSTRIAL	83	361	LD	LD	LD	28	31	34	39	45	51	58	92	26.8	14.0	23.3	1.70
	84	366	LD	LD	LD	27	30	34	40	51	60	75	101	27.6	17.1	23.3	1.78
	85	365	LD	LD	LD	30	33	37	42	50	57	67	93	29.5	15.7	25.4	1.75

KOREA

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
UNITS - 01 - UG/CU METRE (25 C)

SEOUL

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 004																	
SUBURBAN																	
INDUSTRIAL	83	320	10	26	47	73	105	144	223	367	469	542	713	136.9	141.6	85.7	2.64
SITE 005																	
SUBURBAN																	
RESIDENTIAL	83	319	10	26	47	73	94	110	131	199	262	359	511	98.3	83.7	73.3	2.15
SITE 006																	
SUBURBAN																	
COMMERCIAL	83	324	LD	26	50	76	89	107	131	183	236	362	456	95.0	76.8	72.2	2.15

KUWAIT

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
UNITS - 01 - UG/CU METRE (25 C)

KUWAIT CITY

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 1																	
SUBURBAN																	
INDUSTRIAL	83	351	0	0	0	0	0	0	0	28	-	-	76	6	13	2	14
	84	336	0	0	0	0	0	0	0	25	-	-	50	5	11	2	12
	85	290	0	0	0	10	17	43	80	125	-	-	293	38	54	10	6
SITE 2																	
CENTRE CITY																	
COMMERCIAL	83	308	0	0	0	0	22	31	40	56	-	-	78	18	29	5	30
	84	333	0	0	0	0	0	0	25	31	-	-	58	8	14	2	16
	85	296	0	0	0	14	42	69	93	120	-	-	319	43	56	9	70
SITE 3																	
SUBURBAN																	
RESIDENTIAL	83	326	0	0	0	0	0	0	0	40	-	-	74	7	18	2	19
	84	333	0	0	0	0	0	0	0	25	-	-	55	4	11	2	12
	85	284	0	0	0	0	25	83	134	212	-	-	350	60	80	9	108

NETHERLANDS		POLLUTANT - 42401 - SULFUR DIOXIDE											AMSTERDAM					
		METHOD - 14 - INSTRUMENTAL COULOMETRIC																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC
														MEAN	STD	MEAN	STD	
SITE 001		-----																
CENTRE CITY																		
COMMERCIAL		83	270	LD	LD	LD	LD	LD	LD	30	40	50	71	117	-	-	-	-
		84	303	LD	LD	LD	LD	LD	LD	29	42	52	71	99	-	-	-	-
		85	341	LD	LD	LD	LD	LD	LD	37	48	100	211	-	-	-	-	
SITE 002																		
SUBURBAN																		
RESIDENTIAL		85	325	LD	LD	LD	LD	LD	LD	31	47	61	126	225	-	-	-	-
SITE 003																		
SUBURBAN																		
INDUSTRIAL		83	289	LD	LD	LD	LD	27	33	43	62	74	149	-	-	-	-	
		84	273	LD	LD	LD	LD	27	34	45	56	67	108	-	-	-	-	
		85	323	LD	LD	LD	LD	LD	LD	28	40	49	106	246	-	-	-	
NEW ZEALAND		POLLUTANT - 42401 - SULFUR DIOXIDE											AUCKLAND					
		METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC
														MEAN	STD	MEAN	STD	
SITE 001		-----																
SUBURBAN																		
INDUSTRIAL		83	355	LD	LD	5	7	8	9	10	12	14	16	25	7.2	3.6	6.3	1.74
SITE 002																		
CENTRE CITY																		
COMMERCIAL		83	349	LD	LD	LD	LD	LD	LD	5	7	7	8	16	-	-	-	-
SITE 003																		
CENTRE CITY																		
RESIDENTIAL		83	338	LD	LD	LD	LD	LD	LD	5	6	7	16	-	-	-	-	
NEW ZEALAND		POLLUTANT - 42401 - SULFUR DIOXIDE											CHRISTCHURCH					
		METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC
														MEAN	STD	MEAN	STD	
SITE 001		-----																
SUBURBAN																		
RESIDENTIAL		83	319	LD	5	10	18	21	24	28	35	44	54	97	19.4	14.0	14.7	2.22
SITE 002																		
SUBURBAN																		
INDUSTRIAL		83	201	LD	21	29	35	39	47	65	82	93	138	150	44.3	27.2	37.6	1.79
SITE 003																		
SUBURBAN																		
COMMERCIAL		83	330	LD	LD	6	10	12	15	19	28	35	48	58	13.0	10.8	9.6	2.25
PHILIPPINES		POLLUTANT - 42401 - SULFUR DIOXIDE											DAVAO					
		METHOD - 91 - GAS BUBBLER PARAROSANILINE																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
		YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC
														MEAN	STD	MEAN	STD	
SITE 001		-----																
SUBURBAN																		
RESIDENTIAL		83	34	LD	LD	LD	LD	9	12	17	27	31	47	54	-	-	-	-

PHILIPPINES

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

DAVAO

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 002 SUBURBAN	83	34	LD	LD	LD	9	12	14	16	24	26	34	37	11.2	9.3	7.7	2.52
INDUSTRIAL	83	34	LD	LD	LD	9	12	14	16	24	26	34	37	11.2	9.3	7.7	2.52

PHILIPPINES

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 13 - INSTRUMENTAL CONDUCTIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

MANILA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 003 SUBURBAN	83	73	LD	LD	LD	LD	LD	LD	45	141	157	267	288	-	-	-	-
INDUSTRIAL	83	73	LD	LD	LD	LD	LD	LD	45	141	157	267	288	-	-	-	-

POLAND

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

WARSAW

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY	83	185	LD	LD	6	13	22	28	42	83	124	160	382	32.1	49.2	13.9	3.75
RESIDENTIAL	84	204	LD	LD	10	22	29	45	63	84	101	113	219	34.7	35.5	18.7	3.44
	85	193	LD	LD	8	16	25	41	64	91	152	205	319	39.9	55.3	17.1	3.98
SITE 002 CENTRE CITY	83	194	LD	LD	12	32	46	61	80	108	140	178	205	47.2	46.1	25.4	3.58
INDUSTRIAL	84	280	LD	LD	15	28	41	51	61	81	95	124	171	37.5	32.1	23.0	3.14
	85	264	LD	LD	12	28	42	61	90	143	166	244	336	52.8	61.4	25.0	3.92
SITE 003 CENTRE CITY	83	221	LD	LD	12	21	30	43	58	90	116	145	175	35.4	36.6	19.6	3.30
COMMERCIAL	84	284	LD	LD	12	23	34	44	59	79	97	110	213	34.0	32.3	19.5	3.30
	85	254	LD	LD	17	32	40	60	83	114	147	226	401	51.1	60.5	27.0	3.51

POLAND

POLLUTANT - 42401 - SULFUR DIOXIDE  
METHOD - 91 - GAS BUBBLER PARAROSANILINE  
UNITS - 01 - UG/CU METRE (25 C)

WROCLAW

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY	83	288	LD	8	17	29	37	48	64	89	123	173	241	42.4	41.2	27.4	2.69
COMMERCIAL	84	282	LD	16	28	41	53	65	87	118	159	184	458	58.9	54.8	42.2	2.32
	85	283	LD	14	26	39	52	69	98	158	197	262	520	66.4	71.8	42.2	2.66
SITE 002 CENTRE CITY	83	282	LD	8	16	25	30	41	54	78	91	132	192	35.3	31.5	24.9	2.37
INDUSTRIAL	84	275	LD	8	21	31	39	47	59	74	93	122	255	38.6	30.3	28.2	2.40
	85	272	LD	8	24	36	49	58	87	132	184	247	416	57.6	61.6	35.0	2.91
SITE 003 CENTRE CITY	83	244	LD	9	16	27	31	42	52	73	96	115	314	36.0	33.7	25.4	2.39
RESIDENTIAL	84	255	LD	6	16	28	33	43	53	67	82	121	304	35.0	31.7	24.0	2.61
	85	267	LD	11	23	36	43	56	71	110	154	276	368	52.9	55.4	35.1	2.57

## PORTUGAL

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

LISBON

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 002																		
CENTRE CITY																		
RESIDENTIAL	83	257	LD	LD	LD	9	13	25	34	55	63	105	137	20.0	24.6	9.9	3.38	
	84	225	LD	LD	8	15	18	21	28	38	45	64	86	17.4	15.2	11.4	2.74	
	85	164	LD	LD	7	19	31	43	64	92	104	133	155	34.1	35.8	17.2	3.68	
SITE 003																		
CENTRE CITY																		
RESIDENTIAL	83	225	LD	LD	13	30	37	47	54	67	78	108	184	33.2	29.7	18.7	3.55	
	84	189	LD	LD	10	26	32	38	46	60	68	107	114	29.2	24.8	18.1	3.10	
	85	249	LD	5	20	37	45	55	66	91	144	166	258	46.7	41.7	30.3	2.88	
SITE 004																		
SUBURBAN																		
RESIDENTIAL	83	258	LD	LD	LD	9	19	29	49	73	118	199	-	-	-	-	-	
	84	196	LD	LD	LD	11	12	17	22	32	39	42	49	12.8	11.7	8.0	2.79	
	85	270	LD	LD	LD	10	16	23	35	46	58	83	222	19.0	24.0	9.3	3.44	

## ROMANIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - MANUAL WEST - GAEKE  
 UNITS - 01 - UG/CU METRE (25 C)

BUCAREST

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 1																	
SUBURBAN																	
RESIDENTIAL	83	140	LD	1	4	12	19	23	28	40	52	55	65	17	16	11	3
	84	256	0	1	3	4	6	8	13	22	38	49	75	9	12	5	3
	85	253	1	2	4	5	7	12	26	52	62	95	136	17	23	8	3
SITE 2																	
CENTRE CITY																	
RESIDENTIAL	83	126	1	6	10	19	22	26	30	40	47	57	103	21	16	16	2
	84	248	0	3	7	11	13	15	17	22	35	45	91	13	11	9	2
	85	245	1	7	12	16	18	23	35	62	73	87	125	25	23	18	2
SITE 3																	
CENTRE CITY																	
COMMERCIAL	83	91	1	1	3	5	7	10	14	20	31	56	86	10	14	5	3
SITE 4																	
SUBURBAN																	
INDUSTRIAL	83	32	LD	8	10	12	14	15	21	26	38	47	78	17	14	14	2
	84	139	2	5	7	9	10	12	16	20	24	38	44	12	8	10	2
	85	163	1	5	8	11	12	13	15	18	26	40	59	12	8	10	2

## ROMANIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - MANUAL WEST - GAEKE  
 UNITS - 01 - UG/CU METRE (25 C)

CRAIOVA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 1																	
CENTRE CITY																	
RESIDENTIAL	83	234	1	1	3	6	7	9	11	15	19	27	39	8	6	5	2
	84	222	0	1	1	3	5	7	10	17	20	31	39	6	7	4	3
	85	221	LD	LD	1	2	3	4	5	8	12	15	31	4	4	3	2
SITE 2																	
SUBURBAN																	
RESIDENTIAL	83	208	1	1	1	3	5	6	8	12	17	24	48	6	6	3	3
	84	78	0	1	1	2	3	4	6	9	13	16	21	4	4	3	2
	85	174	LD	LD	1	2	3	4	5	8	12	15	31	4	4	3	2

## ROMANIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - MANUAL WEST - GAEKE  
 UNITS - 01 - UG/CU METRE (25 C)

CRAIOVA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SUBURBAN INDUSTRIAL	83	63	1	1	1	1	1	1	2	6	8	11	17	2	3	2	2
	84	77	0	0	1	1	2	4	5	6	8	10	12	3	3	2	2
	85	100	LD	LD	2	3	4	5	8	11	16	18	31	5	5	3	2

## SPAIN

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 98 - GAS BUBBLER THORIN  
 UNITS - 01 - UG/CU METRE (25 C)

MADRID

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	83	284	LD	LD	33	48	51	66	99	139	187	250	393	65.8	63.2	45.7	2.35
	84	197	LD	LD	28	44	53	81	104	112	118	134	142	55.9	39.4	41.4	2.28
	85	302	LD	LD	LD	28	35	48	60	94	109	115	123	37.9	31.2	27.8	2.18
SITE 002 SUBURBAN RESIDENTIAL	83	340	LD	LD	LD	LD	26	37	45	63	74	90	115	-	-	-	-
	84	286	LD	LD	LD	LD	LD	28	38	53	64	76	109	-	-	-	-
	85	296	LD	LD	LD	LD	28	35	47	62	92	110	119	-	-	-	-

## THAILAND

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 91 - GAS BUBBLER PARAROSANILINE  
 UNITS - 01 - UG/CU METRE (25 C)

BANGKOK

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 002 SUBURBAN RESIDENTIAL	83	155	LD	7	11	14	17	24	31	40	43	50	60	18.6	13.3	14.0	2.25
	84	69	LD	9	13	13	18	20	26	31	40	40	48	17.9	10.3	14.9	1.91

## UNITED KINGDOM

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

GLASGOW

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	83	365	11	23	35	51	57	68	79	102	118	142	183	57.0	31.7	49.0	1.76
	84	366	12	26	39	45	52	58	67	86	106	118	177	51.9	24.5	47.0	1.55
	85	365	11	22	33	44	50	56	61	76	86	101	129	46.6	21.5	41.7	1.63
SITE 003 CENTRE CITY INDUSTRIAL	83	365	11	12	23	29	29	34	40	57	64	82	93	30.7	16.5	27.1	1.63
	84	349	6	22	29	35	36	41	54	70	83	136	236	41.5	29.7	35.7	1.66
	85	338	LD	24	40	50	55	59	67	73	83	94	121	50.4	19.8	45.8	1.61

## UNITED KINGDOM

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

LONDON

SITE 001	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
CENTRE CITY																	
COMMERCIAL	83	365	7	20	27	39	41	53	63	80	113	159	262	47.5	34.5	39.4	1.80
	84	366	7	20	27	36	42	50	59	82	108	138	234	45.4	32.9	37.1	1.89
	85	307	LD	16	23	30	37	39	46	68	98	149	240	39.7	33.1	31.6	1.97
SITE 003																	
SUBURBAN																	
INDUSTRIAL	83	354	LD	15	22	29	36	40	51	62	74	90	119	34.9	20.1	29.6	1.83
	84	366	LD	15	29	30	37	44	45	53	67	76	104	35.5	16.2	31.8	1.64
	85	361	LD	15	23	30	36	37	38	45	53	61	82	31.9	12.8	28.8	1.66

## UNITED STATES

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 14 - INSTRUMENTAL COULOMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

BIRMINGHAM - FAIRFIELD

SITE 003	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SUBURBAN																	
INDUSTRIAL	85	69	LD	LD	36	61	76	89	109	157	186	231	313	76.8	60.3	56.5	2.29

## UNITED STATES

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 20 - PULSE FLUORESCENCE ABSORPTION  
 UNITS - 01 - UG/CU METRE (25 C)

BIRMINGHAM - FAIRFIELD

SITE 003	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SUBURBAN																	
INDUSTRIAL	83	274	LD	13	58	103	116	131	150	166	174	185	228	95.5	55.3	69.8	2.64

## UNITED STATES

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 20 - PULSE FLUORESCENCE ABSORPTION  
 UNITS - 01 - UG/CU METRE (25 C)

CHICAGO

SITE 039	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
CENTRE CITY																	
COMMERCIAL	83	348	0	6	12	23	29	34	46	61	71	82	98	27.9	21.5	19.6	2.54
	84	351	0	5	14	22	26	33	42	57	70	79	147	26.9	21.2	19.4	2.45
	85	361	1	5	12	19	23	29	35	46	59	71	119	23.3	17.6	17.2	2.35
SITE 050																	
CENTRE CITY																	
INDUSTRIAL	83	341	0	5	9	15	19	25	32	44	53	80	131	20.6	18.2	14.3	2.49
	84	345	1	5	9	16	19	24	31	43	54	69	210	20.5	19.3	14.6	2.36
	85	343	2	6	10	13	16	20	27	35	45	64	145	18.3	16.2	14.2	2.00
SITE 054																	
CENTRE CITY																	
RESIDENTIAL	84	213	0	3	10	16	19	22	28	40	66	103	165	21.1	22.7	14.0	2.59
	85	323	0	8	13	18	21	25	30	39	48	61	91	21.4	13.5	17.9	1.86

## UNITED STATES

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 20 - PULSE FLUORESCENCE ABSORPTION  
 UNITS - 01 - UG/CU METRE (25 C)

## NEW YORK CITY

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	362	0	10	19	30	37	42	53	68	95	113	160	35.9	26.4	27.2	2.23
	84	365	0	8	16	25	31	39	49	69	101	122	201	33.8	30.6	23.6	2.48
	85	360	0	6	13	21	27	33	45	66	80	94	132	28.3	23.8	19.1	2.75
SITE 010																	
CENTRE CITY																	
RESIDENTIAL	83	365	10	28	43	56	64	71	86	108	134	173	275	64.1	37.3	55.7	1.70
	84	364	3	24	39	55	66	77	89	110	140	182	225	63.7	38.9	53.2	1.86
	85	360	2	21	34	49	57	67	82	118	131	147	199	58.1	35.7	48.3	1.88
SITE 011																	
CENTRE CITY																	
INDUSTRIAL	83	359	3	17	28	40	46	53	61	76	100	124	238	44.8	27.7	37.8	1.82
	84	366	12	20	29	39	45	54	63	83	111	147	198	47.1	30.3	40.1	1.74
	85	363	0	17	26	37	43	51	60	83	96	112	150	43.1	26.0	36.2	1.85

## UNITED STATES

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 20 - PULSE FLUORESCENCE  
 UNITS - 01 - UG/CU METRE (25 C)

## HOUSTON

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 034																	
SUBURBAN																	
RESIDENTIAL	83	313	0	1	10	16	19	23	26	33	44	60	73	17.5	13.6	11.4	3.08
	84	346	0	5	15	23	26	29	32	38	45	52	87	22.8	13.4	17.2	2.53
	85	363	0	0	11	21	23	26	29	33	39	48	111	19.4	13.6	12.9	3.15

## VENEZUELA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

## CARACAS

	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 002																	
CENTRE CITY																	
COMMERCIAL	83	273	11	21	26	29	32	33	37	41	45	47	52	30.2	8.1	29.1	1.32
	84	250	15	19	23	27	30	32	36	42	47	49	59	29.2	8.7	28.0	1.33
	85	221	13	18	21	24	26	27	30	33	38	41	43	25.1	6.1	24.4	1.26

YUGOSLAVIA

POLLUTANT - 42401 - SULFUR DIOXIDE  
 METHOD - 94 - GAS BUBBLER HYDROGEN PEROXIDE  
 UNITS - 01 - UG/CU METRE (25 C)

ZAGREB

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	351	9	49	79	96	112	130	154	199	231	268	297	111.9	57.4	98.1	1.70
	84	365	5	47	65	84	97	112	130	167	215	247	671	99.4	60.4	86.4	1.70
	85	362	LD	38	60	82	104	133	166	216	267	321	425	109.8	76.7	87.3	2.00
SITE 002																	
SUBURBAN																	
RESIDENTIAL	83	347	LD	18	38	58	71	85	103	126	149	167	276	67.0	43.4	51.2	2.32
	84	370	LD	20	37	51	62	74	90	127	164	204	343	64.8	48.0	49.8	2.21
	85	330	LD	16	29	42	55	83	104	147	184	213	345	65.3	56.0	46.2	2.36
SITE 003																	
CENTRE CITY																	
INDUSTRIAL	83	353	LD	27	40	55	65	82	111	151	171	206	348	73.1	52.2	57.2	2.09
	84	358	12	27	39	51	64	81	111	169	208	259	372	76.9	62.3	60.0	1.96

7. SUSPENDED PARTICULATE AND SMOKE DATA

AUSTRALIA		POLLUTANT - 11101 - SUSPENDED PART. METHOD - 91 - HI-VOL GRAVIMETRIC UNITS - 01 - UG/CU METRE (25 C)											MELBOURNE				
SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	55	23	33	44	53	56	67	71	84	96	116	170?	58.5?	24.9?	54.4	1.45
	84	24	30	35	46	52	53	69	72	84	88	97	97	58.4	17.5	56.0	1.34
AUSTRALIA		POLLUTANT - 11101 - SUSPENDED PART. METHOD - 91 - HI-VOL GRAVIMETRIC UNITS - 01 - UG/CU METRE (25 C)											SYDNEY				
SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	57	41	63	72	85	92	100	108	121	126	166	218	90.5	29.5	86.5	1.34
	84	58	39	69	89	103	114	119	134	143	168	267	355	113.1	51.0	104.7	1.46
	85	59	61	79	109	128	131	140	159	206	238	282	408	137.7	59.1	128.1	1.44
SITE 003 SUBURBAN INDUSTRIAL																	
	83	58	26	45	51	57	61	74	88	95	116	187	252	69.0	35.9	63.0	1.49
	84	57	18	27	44	53	60	62	72	84	89	91	91	54.8	19.2	51.2	1.47
	85	54	23	31	38	51	54	58	60	72	92	101	102	50.6	18.9	47.4	1.43
BELGIUM		POLLUTANT - 11101 - SUSPENDED PART. METHOD - 91 - HI-VOL GRAVIMETRIC UNITS - 01 - UG/CU METRE (25 C)											BRUSSELS				
SITE 002 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	85	335	3	6	8	13	15	18	22	34	45	78	180	18.4	21.0	13.6	2.01
SITE 003 SUBURBAN INDUSTRIAL																	
	85	363	4	10	16	22	26	33	41	58	74	109	163	29.4	23.5	23.0	1.98
SITE 004 CENTRE CITY COMMERCIAL																	
	83	358	3	6	10	13	16	18	23	32	42	57	83	17.0	12.7	13.7	1.91
	84	326	2	7	14	20	23	27	32	37	44	59	111	22.6	14.4	18.7	1.90
	85	362	2	5	11	18	22	27	36	49	67	97	190	24.3	24.0	17.1	2.31
BELGIUM		POLLUTANT - 11204 - SMOKE SHADE METHOD - 91 - SMOKE SHADE REFLECTANCE UNITS - 01 - UG/CU METRE (25 C)											BRUSSELS				
SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	293	3	13	20	26	29	32	37	45	55	69	105	28.3	14.9	25.0	1.67
SITE 002 SUBURBAN RESIDENTIAL																	
	83	333	2	6	10	13	15	18	22	30	34	54	96	16.4	11.4	13.6	1.83
	84	317	1	5	10	13	16	19	22	28	39	45	78	15.8	10.8	12.0	1.95

BELGIUM  
POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)  
BRUSSELS

SITE 003 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	336	1	8	13	17	21	25	30	38	47	58	99	21.5	14.0	17.5	1.98
	84	333	3	10	17	22	26	29	35	43	50	68	108	25.6	15.1	21.8	1.79

BRAZIL  
POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)  
SAO PAULO

SITE 006 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	58	LD	37	54	77	86	103	110	159	216	282	385	92.3	65.9	72.2	2.40
	84	58	LD	42	61	80	95	111	142	189	252	270	281	101.3	66.4	69.8	3.61
	85	56	22	40	59	76	92	113	138	208	231	260	281	100.3	64.6	83.6	1.82

BRAZIL  
POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)  
SAO PAULO

SITE 002 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	13	30	46	57	63	72	84	113	142	177	242	65.6	37.4	57.4	1.66
	84	365	16	30	45	57	66	76	98	136	198	243	320	73.9	51.3	61.8	1.77
	85	362	7	31	48	56	63	71	88	135	179	249	309	71.8	50.6	60.2	1.76

SITE 005  
CENTRE CITY  
MOBILE

	83	362	18	39	64	92	108	126	150	184	213	260	300	103.3	58.7	87.4	1.81
	84	362	11	35	56	86	101	126	164	229	281	383	496	111.4	86.9	86.1	2.05
	85	363	12	37	52	72	85	103	134	191	282	324	459	96.7	73.8	77.0	1.92

SITE 006  
CENTRE CITY  
RESIDENTIAL

	83	365	7	17	30	43	52	62	79	118	174	252	348	60.4	55.3	44.7	2.12
	84	366	7	17	26	40	51	66	99	180	229	299	371	69.0	72.2	45.8	2.39
	85	363	3	16	27	40	47	59	86	160	220	256	492	63.1	65.0	43.6	2.27

CANADA  
POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)  
HAMILTON

SITE 001 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	56	19	37	59	75	82	99	131	164	175	203	235	90.6	49.8	78.3	1.74
	84	52	28	38	72	107	118	127	144	165	186	238	305	105.9	55.7	91.8	1.75

SITE 002  
CENTRE CITY  
COMMERCIAL

	83	54	32	46	62	83	94	105	124	155	171	236	282	94.9	49.3	84.8	1.60
	84	57	23	51	67	77	83	104	119	157	190	232	267	93.9	48.8	83.7	1.61
	85	51	32	40	50	67	83	88	107	121	122	147	159	75.5	32.0	69.3	1.52

CANADA POLLUTANT - 11101 - SUSPENDED PART. HAMILTON  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 003																	
SUBURBAN																	
RESIDENTIAL	85	53	12	20	43	65	81	95	109	133	152	178	243	75.4	47.8	60.8	2.01

CANADA POLLUTANT - 11201 - SOIL INDEX HAMILTON  
METHOD - 81 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
RESIDENTIAL	83	351		7	22	37	45	52	60	75	90	97	120	40.3	25.4	31.3	2.29
	84	260	7	15	30	52	60	75	82	97	105	120	127	54.0	31.8	42.6	2.15
SITE 002																	
CENTRE CITY																	
COMMERCIAL	83	362		7	22	30	30	37	52	60	67	82	135	33.1	19.9	26.4	2.23
	84	351		15	30	37	45	45	52	67	82	97	180	41.3	23.3	35.0	1.91
	85	353		22	30	37	45	45	52	67	75	90	120	39.6	18.6	35.1	1.72
SITE 003																	
SUBURBAN																	
RESIDENTIAL	84	69	7	15	30	45	60	67	75	82	97	97	120	51.0	25.9	43.6	1.84
	85	342		7	15	30	37	37	45	52	60	67	90	29.6	19.1	19.3	3.56

CANADA POLLUTANT - 11101 - SUSPENDED PART. MONTREAL  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
RESIDENTIAL	83	53	20	29	35	42	44	50	59	62	68	86	87	44.4	15.0	42.1	1.38
	84	49	23	27	32	37	40	45	52	63	69	78	91	41.9	14.8	39.8	1.37
	85	56	13	25	30	34	39	42	48	54	59	61	63	37.3	11.6	35.6	1.37
SITE 002																	
SUBURBAN																	
RESIDENTIAL	83	59	26	31	47	63	71	76	88	104	128	154	178	67.6	32.4	60.9	1.58
	84	51	26	32	50	60	65	73	85	125	129	137	161	67.9	31.5	61.7	1.54
	85	51	23	34	43	56	61	65	78	89	92	103	111	58.0	21.5	54.1	1.46
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	58	16	33	43	52	58	64	71	84	96	125	131	56.4	22.7	52.3	1.48
	84	58	15	27	36	52	60	68	76	90	127	131	202	58.6	33.7	51.2	1.67
	85	55	23	28	39	50	58	64	71	89	104	126	150	55.9	26.9	50.6	1.56

CANADA POLLUTANT - 11201 - SOIL INDEX MONTREAL  
METHOD - 81 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002																	
SUBURBAN																	
RESIDENTIAL	83	283	7	7	15	15	15	22	22	30	30	37	52	17.1	8.7	15.1	1.66

CANADA  
POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)  
TORONTO

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001 SUBURBAN INDUSTRIAL	83	53	18	27	42	53	57	65	73	97	107	143	179	59.4	30.3	53.4	1.58
	84	58	26	40	48	66	73	78	84	99	127	133	139	68.3	26.4	63.7	1.45
	85	56	8	25	45	54	62	66	74	84	112	154	203	59.9	33.1	51.9	1.76
SITE 002 SUBURBAN RESIDENTIAL	83	58	15	25	38	52	57	60	76	96	118	151	161	58.3	31.4	51.3	1.66
	84	58	25	33	49	60	70	76	83	101	163	176	208	69.2	37.0	61.6	1.61
	85	58	14	25	36	45	54	61	78	93	101	108	180	53.8	29.2	47.4	1.65
SITE 004 CENTRE CITY COMMERCIAL	83	59	22	30	49	58	62	71	84	109	125	130	144	65.1	28.7	59.3	1.54
	84	60	9	32	42	58	64	75	86	102	120	189	245	65.6	39.3	56.5	1.75
	85	61	18	27	36	45	54	63	69	81	88	100	186	52.8	26.6	47.7	1.57

CANADA  
POLLUTANT - 11201 - SOIL INDEX  
METHOD - 81 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)  
TORONTO

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001 SUBURBAN INDUSTRIAL	83	357		7	15	22	30	30	45	52	67	82	90	27.9	18.6	19.7	3.01
	84	343		15	30	37	45	45	52	67	75	82	135	39.5	19.8	33.7	1.92
	85	354	7	15	22	30	37	45	45	52	60	75	97	35.0	16.9	30.5	1.76
SITE 002 SUBURBAN RESIDENTIAL	83	362		7	15	22	22	30	30	45	52	67	90	23.9	15.4	19.4	2.03
	84	355		7	22	22	30	30	37	45	52	67	90	27.0	15.0	22.3	2.06
	85	355		7	15	22	22	30	37	45	45	60	75	25.0	13.1	20.7	2.13
SITE 004 CENTRE CITY COMMERCIAL	83	359	7	15	22	30	30	37	37	52	60	75	105	30.8	17.0	26.5	1.77
	84	359	7	15	22	30	37	45	45	60	67	75	120	35.1	17.1	31.0	1.69
	85	351		7	22	22	30	30	37	45	45	67	82	27.0	13.9	22.8	2.02

CANADA  
POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)  
VANCOUVER

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002 CENTRE CITY RESIDENTIAL	83	49	16	21	29	33	34	40	47	67	72	82	83	37.9	16.5	35.0	1.48
	84	56	13	19	24	29	33	37	46	59	61	92	128	35.0	19.8	31.2	1.58
	85	45	20	22	34	42	46	49	53	63	87	95	100	43.9	19.4	40.1	1.53
SITE 004 SUBURBAN INDUSTRIAL	83	57	17	26	35	46	51	55	68	77	85	116	120	50.4	21.8	46.2	1.52
	84	56	18	26	33	38	43	49	58	64	82	128	160	46.1	25.5	41.4	1.55
	85	56	24	33	41	58	67	73	85	106	111	126	207	65.3	31.9	59.1	1.56

CANADA POLLUTANT - 11101 - SUSPENDED PART. VANCOUVER  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 005																		
CENTRE CITY	83	54	19	23	30	38	45	51	63	79	85	87	87	45.1	19.8	41.2	1.53	
COMMERCIAL	84	50	23	27	37	42	46	52	56	69	80	125	168	48.9	24.7	45.0	1.47	
	85	56	25	32	40	49	54	62	72	95	104	111	139	56.4	25.2	51.7	1.51	

CANADA POLLUTANT - 11201 - SOIL INDEX VANCOUVER  
METHOD - 81 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 002																		
CENTRE CITY	83	287		7	7	15	15	22	22	30	37	45	60	15.8	12.0	11.2	2.73	
RESIDENTIAL	84	316		7	7	7	15	15	15	30	30	37	67	13.5	9.3	10.7	2.22	
	85	277		7	7	15	15	15	22	22	30	37	45	14.2	7.9	12.2	1.79	
SITE 004																		
SUBURBAN	83	261		7	7	15	15	15	22	22	30	52	67	14.8	10.3	12.0	2.01	
INDUSTRIAL	84	333		7	7	7	15	15	22	22	30	45	75	13.5	10.5	10.2	2.37	
	85	338	7	7	7	15	22	22	37	52	67	75	105	23.7	19.6	17.8	2.09	
SITE 006																		
CENTRE CITY	83	250		7	7	7	15	15	15	22	30	37	52	13.4	7.9	11.5	1.79	
COMMERCIAL	84	337		7	15	15	15	22	22	30	37	45	60	17.7	10.3	15.1	1.79	
	85	294	7	15	15	22	22	30	30	45	52	60	67	24.9	12.7	22.0	1.67	

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART. BEIJING  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD	
SITE 001																		
SUBURBAN	83	146	121	215	304	369	406	479	534	657	833	953	1355	420.8	207.5	379.1	1.57	
INDUSTRIAL	84	88	122	229	364	458	505	560	652	839	929	1320	1788	511.9	281.0	451.6	1.64	
SITE 002																		
CENTRE CITY	83	160	27	240	320	469	556	609	707	801	925	1088	1295	504.2	239.4	445.5	1.70	
COMMERCIAL	84	84	159	250	386	574	611	738	814	931	1076	1413	1457	594.8	289.0	528.2	1.65	
SITE 003																		
SUBURBAN	83	151	14	74	137	185	228	254	336	420	478	525	615	220.3	133.2	176.6	2.10	
RESIDENTIAL	84	76	59	126	232	288	340	371	409	478	526	665	863	308.3	149.4	269.9	1.74	
SITE 004																		
CENTRE CITY	83	163	101	180	239	337	406	450	550	640	752	837	1127	384.1	194.9	340.0	1.64	
RESIDENTIAL	84	81	100	163	292	368	408	468	559	629	694	801	1381	400.4	199.0	356.8	1.63	

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

GUANGZHOU

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SUBURBAN																	
RESIDENTIAL	83	150	94	189	257	304	330	391	437	531	680	759	830	343.0	149.4	315.1	1.50
	84	147	19	50	91	189	224	273	311	370	501	586	716	206.0	146.6	154.6	2.25
	85	147	18	35	67	95	112	134	163	168	200	265	1124	108.9	100.4	88.9	1.86
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	163	37	89	124	148	169	199	229	279	361	497	620	177.6	98.5	156.3	1.65
	84	150	53	90	133	178	197	218	248	334	403	428	2412	206.3	202.5	175.1	1.67
	85	144	82	115	163	204	219	247	274	323	384	459	573	216.4	89.4	200.3	1.48
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	163	56	139	177	203	222	252	302	357	438	570	701	234.4	107.7	215.5	1.49
	84	144	53	92	137	171	195	233	271	347	388	403	425	196.7	93.0	175.9	1.62
	85	149	40	82	111	146	163	178	203	261	324	382	477	159.6	79.4	142.8	1.60
SITE 004																	
CENTRE CITY																	
INDUSTRIAL	83	158	23	53	71	92	100	120	140	172	194	222	280	103.4	49.3	92.7	1.60
	84	146	22	43	91	144	189	241	315	429	480	510	678	192.6	145.1	141.9	2.28
	85	147	93	176	234	279	295	335	379	455	541	591	782	301.1	122.7	278.8	1.48

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SHANGHAI

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
CENTRE CITY																	
INDUSTRIAL	83	182	87	140	187	242	276	300	361	442	497	573	730	270.6	122.4	246.1	1.54
	84	88	64	126	173	232	252	293	317	378	451	518	608	249.0	106.7	227.5	1.54
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	178	31	118	157	189	211	235	256	312	353	400	574	205.1	79.9	191.0	1.46
	84	180	50	132	166	202	221	237	266	304	339	398	578	212.3	76.9	199.4	1.43
	85	175	73	120	172	211	229	265	287	352	387	506	1531	232.8	134.3	211.0	1.52
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	180	50	105	150	186	203	217	250	311	368	442	595	200.1	91.3	182.4	1.54
	84	174	70	119	152	183	200	227	256	288	314	384	560	198.1	70.5	187.0	1.40
	85	180	67	120	161	202	226	253	287	350	428	557	617	224.9	106.1	204.1	1.54
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	178	47	86	107	137	153	172	193	234	280	331	506	151.4	69.5	138.6	1.51
	84	177	45	92	121	142	160	177	190	218	228	276	354	151.2	52.1	142.7	1.41
	85	176	30	82	116	140	155	173	197	234	270	395	467	154.9	72.2	141.2	1.53

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SHENYANG

SITE 001	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
CENTRE CITY																	
RESIDENTIAL	83	144	86	191	357	476	536	621	705	942	988	1142	1305	517.0	269.7	444.2	1.80
	84	144	89	201	357	433	484	581	675	864	1040	1336	1655	506.5	281.3	439.8	1.72
	85	144	106	232	341	408	473	533	604	725	880	1006	1619	462.6	220.8	417.0	1.58

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART. SHENYANG  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 002																	
CENTRE CITY																	
INDUSTRIAL	83	144	109	264	370	491	568	634	716	895	1018	1181	2058	544.7	277.0	485.2	1.62
	84	144	108	193	342	432	482	587	657	856	981	1193	1491	495.6	264.5	430.7	1.72
	85	144	88	261	366	440	540	672	757	944	1133	1354	1737	553.7	302.4	483.5	1.69
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	144	81	194	303	408	473	552	631	780	893	1049	1754	463.5	251.5	403.3	1.72
	84	72	121	227	367	488	510	576	629	797	922	1242	1340	503.9	243.0	451.6	1.61
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	144	16	113	170	220	254	283	319	389	459	527	1113	245.0	133.9	214.3	1.72
	84	72	58	126	230	296	318	363	406	504	571	750	851	317.4	153.0	280.2	1.70

PEOPLE'S REP. OF CHINA POLLUTANT - 11101 - SUSPENDED PART. XIAN  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
SUBURBAN																	
RESIDENTIAL	83	176	13	101	183	234	260	310	390	476	566	739	1054	273.2	169.1	227.4	1.89
	84	178	57	136	214	298	335	388	444	603	784	930	2878	358.9	291.3	296.1	1.81
	85	154	44	150	247	332	380	422	493	631	739	794	947	363.2	184.7	314.9	1.77
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	182	77	140	239	325	384	459	528	714	854	990	1439	386.7	233.9	326.0	1.81
	84	174	67	204	303	389	452	521	645	767	897	1488	2849	476.9	348.0	399.6	1.78
	85	155	100	219	349	441	521	595	656	823	937	1063	1140	492.9	233.3	436.0	1.68
SITE 003																	
CENTRE CITY																	
COMMERCIAL	83	184	59	148	256	341	393	469	538	736	848	995	1296	395.0	231.5	333.8	1.82
	84	178	77	207	314	408	471	544	660	836	919	1401	2713	497.3	368.3	415.7	1.78
	85	150	75	251	350	489	545	625	718	887	1034	1077	1260	525.8	252.3	461.6	1.72
SITE 004																	
SUBURBAN																	
INDUSTRIAL	83	185	70	140	252	334	377	425	558	723	853	960	1259	384.3	224.5	325.1	1.81
	84	175	99	229	361	440	490	584	695	873	1072	2041	2795	530.6	372.9	449.0	1.75
	85	156	58	252	394	496	540	594	714	892	999	1144	1403	528.4	250.7	464.1	1.74

CHILE POLLUTANT - 11204 - SMOKE SHADE SANTIAGO  
 METHOD - 91 - SMOKE SHADE REFLECTANCE  
 UNITS - 01 - UG/CU METRE (25 C)

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	343	17	103	178	223	232	238	292	377	444	532	727	231.6	110.0	205.5	1.69
	84	335	18	42	57	83	95	117	138	177	219	268	434	97.0	61.8	81.2	1.81
	85	362	11	35	49	67	71	85	106	138	162	205	304	74.9	44.4	64.2	1.74
SITE 002																	
CENTRE CITY																	
RESIDENTIAL	83	347	10	28	43	69	87	122	173	232	282	390	915	107.9	103.9	76.1	2.26
	84	359	9	18	29	41	51	78	98	138	191	251	328	64.4	56.3	46.9	2.20

DENMARK

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

COPENHAGEN

SITE 003 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	347	6	23	33	42	48	55	66	79	96	125	186	49.0	26.3	43.4	1.63
	84	361	16	30	41	56	63	69	80	99	117	126	233	60.0	28.7	53.9	1.58
	85	335	11	29	39	48	54	63	72	88	99	133	228	55.2	28.6	49.5	1.58

DENMARK

POLLUTANT - 11204 - SMOKE SHADE  
 METHOD - 91 - SMOKE SHADE REFLECTANCE  
 UNITS - 01 - UG/CU METRE (25 C)

COPENHAGEN

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	5	14	19	26	28	33	38	51	61	77	129	29.3	16.7	25.6	1.67
	84	317	7	14	21	28	33	39	45	58	66	76	106	32.6	17.7	28.4	1.70
	85	356	8	15	20	25	28	32	36	45	56	60	78	28.0	12.8	25.5	1.54
SITE 003 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	361	1	5	9	13	17	22	27	43	53	66	94	18.8	15.8	13.7	2.28
	84	365	2	8	15	22	25	29	35	46	54	65	98	24.7	15.2	20.4	1.89
	85	363	3	8	12	17	19	23	28	42	52	85	179	22.0	18.4	17.5	1.92

FINLAND

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

HELSINKI

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	174	16	37	52	70	74	84	105	145	185	301	375	82.5	56.1	70.0	1.73
	84	163	8	27	41	56	66	81	96	156	205	309	371	77.8	67.4	59.6	2.03
SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	175	10	23	34	50	60	73	86	108	136	167	280	60.5	39.8	50.4	1.83

FRANCE

POLLUTANT - 11204 - SMOKE SHADE  
 METHOD - 91 - SMOKE SHADE REFLECTANCE  
 UNITS - 01 - UG/CU METRE (25 C)

GOURDON

SITE 001 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	354	3	14	21	28	32	40	50	72	88	104	172	36.0	25.6	29.1	1.92
	84	364	6	14	21	27	33	39	47	72	98	112	144	35.9	25.4	29.4	1.85
SITE 002 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	364	8	21	29	36	41	48	59	75	90	147	229	44.5	29.2	38.2	1.70
	84	365	11	21	28	36	41	47	56	80	106	127	164	44.1	27.1	38.2	1.67
SITE 003 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	364	5	16	24	31	35	40	51	63	80	114	194	37.0	24.3	31.3	1.77
	84	362	7	18	25	32	37	43	50	71	92	114	144	39.3	24.4	33.6	1.73

FED REP GERMANY POLLUTANT - 11101 - SUSPENDED PART. FRANKFURT  
METHOD - 93 - MILLIPORE FILT BETA ABSORP.  
UNITS - 01 - UG/CU METRE (25 C)

SITE 002 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	94	9	17	25	39	45	57	65	86	107	150	217	48.1	35.5	38.6	1.93
	84	314	7	12	19	27	32	39	48	62	88	113	157	34.2	25.5	27.5	1.91
	85	214	9	20	29	42	49	56	68	89	106	144	236	49.9	33.2	41.6	1.82

GHANA POLLUTANT - 11101 - SUSPENDED PART. ACCRA  
METHOD - 75 - HI-VOL 20M CUT GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE 001 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	85	35	29	54	71	83	86	100	110	139	218	256	322	98.1	58.3	87.3	1.58

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	85	20	73	73	84	105	106	115	132	151	161	182	182	109.8	30.7	106.1	1.30

GHANA POLLUTANT - 11101 - SUSPENDED PART. ACCRA  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	85	3	98	98	98	113	113	113	113	74	74	74	74	95.0	19.7	93.6	1.24

GREECE POLLUTANT - 11101 - SUSPENDED PART. ATHENS  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	33	90	116	202	236	250	259	305	370	370	377	415	239.9	80.6	225.7	1.44
	84	53	86	118	151	175	191	206	214	252	283	294	358	183.3	52.6	176.2	1.32
	85	16	45	85	125	142	153	191	216	264	296	302	302	166.8	72.6	151.3	1.61

SITE 003 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	38	63	115	166	191	198	214	228	273	282	288	296	192.1	55.4	183.3	1.38
	84	94	84	142	160	187	201	209	226	256	280	301	308	193.1	47.2	187.4	1.28
	85	62	57	116	140	154	168	193	213	242	279	325	367	172.5	55.8	164.5	1.36

GREECE POLLUTANT - 11204 - SMOKE SHADE ATHENS  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	175	1	8	13	22	29	35	43	71	112	135	239	33.7	37.1	22.0	2.57
	84	204	2	11	20	28	33	39	51	72	119	160	308	38.4	37.8	27.6	2.26
	85	197	4	10	15	21	26	33	50	71	108	142	168	33.6	32.8	24.0	2.19

GREECE POLLUTANT - 11204 - SMOKE SHADE ATHENS  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE 003 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	174	15	43	68	95	108	119	138	212	223	251	401	106.7	61.8	91.6	1.74
	84	340	20	57	85	104	119	138	160	212	261	293	386	122.4	65.8	107.5	1.67
	85	360	LD	56	79	103	119	145	185	253	304	393	418	129.2	82.5	107.4	1.90

HONG KONG POLLUTANT - 11204 - SMOKE SHADE HONG KONG  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	364	4	25	37	44	47	52	57	65	71	81	104	44.8	15.7	41.9	1.48
	84	207	11	20	33	40	43	48	55	67	88	100	164	43.3	21.1	39.0	1.58
SITE 002 SUBURBAN INDUSTRIAL	83	364	5	10	15	18	21	24	28	35	43	48	78	20.9	10.5	18.6	1.63
	84	208	1	8	13	19	22	25	29	36	42	52	91	21.2	12.8	17.4	2.00

INDIA POLLUTANT - 11101 - SUSPENDED PART. BOMBAY  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	84	3	88	88	88	98	98	98	98	127	127	127	127	104.3	20.3	103.1	1.20
	85	32	36	49	102	155	181	199	285	308	311	325	327	175.2	91.1	149.9	1.82
SITE 004 SUBURBAN RESIDENTIAL	84	30	14	73	170	272	309	330	351	371	401	401	408	244.0	118.4	200.6	2.15
	85	29	117	140	189	301	327	356	370	436	493	493	527	288.8	117.1	264.2	1.55
SITE 005 CENTRE CITY COMMERCIAL	84	26	45	118	165	206	239	259	326	350	420	420	436	230.4	103.4	205.4	1.68
	85	30	66	103	185	214	251	266	298	317	341	341	373	226.9	76.8	211.9	1.49
SITE 006 CENTRE CITY COMMERCIAL	84	26	43	51	101	126	180	219	230	238	350	350	429	162.0	97.1	135.1	1.89

INDIA POLLUTANT - 11101 - SUSPENDED PART. CALCUTTA  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	84	33	143	152	220	391	462	527	545	665	707	725	1327	411.9	243.8	353.2	1.75
	85	31	57	201	264	339	387	451	521	575	608	649	848	374.3	168.5	334.4	1.68

INDIA		POLLUTANT - 11101 - SUSPENDED PART.											CALCUTTA					
		METHOD - 91 - HI-VOL GRAVIMETRIC																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC		
													MEAN	STD	MEAN	STD		
SITE 003		-----																
SUBURBAN																		
INDUSTRIAL		84	19	119	198	306	483	487	530	598	625	809	813	813	443.5	202.7	394.5	1.69
		85	26	136	164	243	371	413	473	595	638	804	804	828	404.5	205.1	356.4	1.68
SITE 004		-----																
SUBURBAN																		
RESIDENTIAL		84	29	81	111	165	238	297	333	428	497	1018	1018	1062	323.2	250.2	257.5	1.94
		85	30	67	135	199	245	274	337	431	489	635	635	741	297.3	160.6	259.8	1.70

INDIA		POLLUTANT - 11101 - SUSPENDED PART.											NEW DELHI					
		METHOD - 91 - HI-VOL GRAVIMETRIC																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC		
													MEAN	STD	MEAN	STD		
SITE 001		-----																
CENTRE CITY																		
COMMERCIAL		84	29	142	201	339	467	475	522	571	688	969	969	1415	481.5	256.1	427.3	1.64
		85	27	120	141	271	395	449	558	660	694	790	790	1029	438.6	232.8	374.1	1.83
SITE 002		-----																
CENTRE CITY																		
RESIDENTIAL		84	32	52	93	191	267	306	324	431	528	549	550	1313	307.7	229.3	250.7	1.92
		85	25	69	90	209	285	344	375	391	504	534	697	697	293.9	159.8	247.4	1.90
SITE 003		-----																
CENTRE CITY																		
INDUSTRIAL		84	30	160	227	332	358	502	619	671	811	950	950	1138	497.7	251.2	440.4	1.66
		85	27	96	251	307	496	519	587	624	714	914	914	1228	488.3	247.5	426.8	1.75

INDONESIA		POLLUTANT - 11101 - SUSPENDED PART.											JAKARTA					
		METHOD - 91 - HI-VOL GRAVIMETRIC																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC		
													MEAN	STD	MEAN	STD		
SITE 001		-----																
CENTRE CITY																		
RESIDENTIAL		83	46	LD	84	230	271	302	332	346	405	434	527	529	271.2	119.3	210.5	3.06
SITE 003		-----																
CENTRE CITY																		
INDUSTRIAL		83	36	100	122	176	224	253	288	351	390	551	581	581	261.8	136.4	232.1	1.63

ISL.REP.IRAN		POLLUTANT - 11101 - SUSPENDED PART.											TEHRAN					
		METHOD - 91 - HI-VOL GRAVIMETRIC																
		UNITS - 01 - UG/CU METRE (25 C)																
		PERCENTILES											MAX		ARITHMETIC		GEOMETRIC	
YR	NO	MIN	10	30	50	60	70	80	90	95	98	MAX	ARITHMETIC	ARITHMETIC	GEOMETRIC	GEOMETRIC		
													MEAN	STD	MEAN	STD		
SITE 001		-----																
CENTRE CITY																		
COMMERCIAL		83	61	92	149	172	269	288	323	365	458	509	530	834	277.6	133.3	250.8	1.56
		84	62	89	130	194	226	235	252	286	319	396	641	852	243.2	113.9	225.9	1.44
		85	38	119	161	230	258	281	297	311	336	415	554	569	270.6	94.6	256.3	1.39

ISL.REP.IRAN

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

TEHRAN

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	62	125	208	267	331	393	412	449	548	580	592	727	355.2	125.2	333.1	1.44
	84	62	LD	165	273	315	335	368	396	429	449	631	905	317.5	129.0	271.5	2.45
	85	32	180	267	312	365	367	387	462	502	538	576	584	372.3	99.7	359.5	1.31

SITE 003 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	64	69	147	189	242	270	308	355	444	599	616	640	276.6	128.9	250.4	1.56
	84	58	41	118	177	221	237	261	280	306	387	415	879	229.8	116.1	208.1	1.57
	85	36	LD	91	172	247	271	292	336	372	539	576	820	258.3	158.8	170.4	4.57

ISL.REP.IRAN

POLLUTANT - 11204 - SMOKE SHADE  
 METHOD - 91 - SMOKE SHADE REFLECTANCE  
 UNITS - 01 - UG/CU METRE (25 C)

TEHRAN

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	54	42	97	126	182	216	277	332	386	409	439	576	218.7	119.5	188.4	1.75
	84	71	2	50	71	92	105	147	238	289	315	549	563	142.3	116.8	105.7	2.32
	85	48	18	49	59	78	87	112	124	229	292	411	547	114.1	100.2	88.5	1.98

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	65	18	89	128	156	177	196	285	389	473	580	613	197.2	123.4	166.3	1.82
	84	59	35	54	85	112	123	143	172	291	302	339	408	138.1	85.9	116.7	1.78
	85	32	17	29	84	110	126	145	154	193	204	238	347	118.4	68.5	98.2	1.96

SITE 003 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	61	22	28	43	55	67	102	106	139	199	296	525	82.7	78.5	64.1	1.94
	84	61	17	22	31	42	49	60	91	121	131	174	353	61.0	52.4	48.4	1.90
	85	32	15	18	37	46	53	56	75	91	111	132	292	58.8	50.1	47.9	1.84

IRELAND

POLLUTANT - 11204 - SMOKE SHADE  
 METHOD - 91 - SMOKE SHADE REFLECTANCE  
 UNITS - 01 - UG/CU METRE (25 C)

DUBLIN

SITE 001 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	1	7	19	29	34	42	60	96	138	214	424	45.1	54.7	27.9	2.72
	84	365	LD	6	22	45	55	73	92	129	173	219	472	59.6	60.8	35.2	3.18
	85	362	1	5	13	27	33	47	72	122	173	267	611	49.6	67.3	24.9	3.49

SITE 002 CENTRE CITY INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	349	1	4	8	14	18	21	31	51	74	152	274	24.7	35.1	13.4	3.14
	84	357	1	4	9	20	25	32	41	56	94	152	358	29.2	38.8	16.1	3.22
	85	230	1	5	11	15	22	33	55	96	144	211	515	39.1	61.8	18.9	3.29

SITE 003 SUBURBAN RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	338	1	1	5	16	22	28	36	51	80	93	125	22.5	24.0	10.9	4.04
	84	351	1	4	11	20	26	36	48	67	79	125	211	30.3	31.2	18.2	3.03
	85	349	1	1	6	13	20	33	47	75	104	118	268	28.1	35.6	12.5	4.09

ISRAEL

POLLUTANT - 11201 - SOIL INDEX  
METHOD - 81 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)

TEL AVIV

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	83	134	15	22	22	30	30	30	37	45	52	52	90	30.4	11.4	28.8	1.37
	84	212					7	7	7	7	15	15	22	3.9	4.5	1.4	4.68
SITE 002 CENTRE CITY RESIDENTIAL	84	201		7	7	7	15	15	15	22	22	30	45	11.7	7.5	8.9	2.58
SITE 003 CENTRE CITY INDUSTRIAL	84	201		7	7	7	15	15	22	30	37	60	11.9	9.2	7.8	3.24	
SITE 004 SUBURBAN RESIDENTIAL	83	192	15	22	22	30	30	37	45	52	67	75	105	35.3	15.3	32.7	1.45
	84	210			7	7	7	15	15	22	22	30	60	9.6	8.1	5.2	4.26
SITE 005 CENTRE CITY RESIDENTIAL	83	207	15	15	22	22	22	22	30	30	37	37	52	23.4	6.5	22.6	1.30

JAPAN

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 93 - MILLIPORE FILT BETA ABSORP.  
UNITS - 01 - UG/CU METRE (25 C)

OSAKA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 002 CENTRE CITY INDUSTRIAL	85	325	10	22	33	43	49	55	65	75	94	125	197	47.7	25.2	42.1	1.64
SITE 004 CENTRE CITY INDUSTRIAL	83	275	9	17	25	31	36	41	47	63	69	81	132	35.9	18.5	31.9	1.62
	84	366	6	17	27	34	40	46	52	65	78	96	164	38.9	21.2	33.7	1.73
	85	363	7	16	25	32	37	42	50	60	71	93	133	36.3	19.4	31.9	1.68

JAPAN

POLLUTANT - 11203 - LIGHT SCATTER  
METHOD - 11 - NEPHELOMETER  
UNITS - 01 - UG/CU METRE (25 C)

OSAKA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	83	363	8	16	25	33	38	44	53	68	77	102	173	38.7	22.2	33.6	1.69
	84	366	9	18	26	35	40	46	55	71	85	104	198	40.6	24.1	35.0	1.71
	85	364	11	17	26	34	40	46	55	66	81	96	167	39.6	22.5	34.4	1.69
SITE 002 CENTRE CITY INDUSTRIAL	83	325	11	20	31	42	48	55	66	78	92	109	178	46.7	24.8	41.0	1.68
	84	366	11	19	32	41	47	58	68	87	101	137	230	49.1	29.4	42.1	1.74
	85	31	18	20	27	39	48	56	64	81	87	89	95	44.8	22.9	39.5	1.66
SITE 003 SUBURBAN RESIDENTIAL	83	361	8	20	30	42	48	55	67	86	100	114	205	48.0	27.6	41.3	1.73
	84	360	10	19	30	42	49	59	69	88	108	143	243	50.1	31.2	42.3	1.79
	85	364	8	18	32	42	48	57	68	86	106	154	285	49.8	34.1	41.6	1.80

JAPAN

POLLUTANT - 11203 - LIGHT SCATTER  
 METHOD - 11 - NEPHELOMETER  
 UNITS - 01 - UG/CU METRE (25 C)

OSAKA

SITE 004 CENTRE CITY INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	90	9	18	23	37	43	53	63	82	94	116	132	43.6	26.7	36.6	1.83
	84	59	13	16	21	32	34	37	44	60	76	84	103	34.5	19.6	30.1	1.66

JAPAN

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 93 - MILLIPORE FILT BETA ABSORP.  
 UNITS - 01 - UG/CU METRE (25 C)

TOKYO

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	84	334	18	32	41	52	60	70	83	111	139	155	266	63.7	35.2	56.4	1.61
	85	363	15	25	37	47	54	63	79	97	127	154	221	56.2	31.9	48.9	1.68
SITE 002 SUBURBAN RESIDENTIAL	85	290	14	23	33	42	46	57	71	94	116	143	224	51.4	31.6	44.2	1.70
SITE 003 CENTRE CITY INDUSTRIAL	84	314	6	24	33	42	47	55	67	98	120	153	247	52.0	33.9	44.6	1.70
	85	349	12	21	33	42	47	56	70	90	115	141	224	50.7	30.6	43.6	1.72

JAPAN

POLLUTANT - 11203 - LIGHT SCATTER  
 METHOD - 11 - NEPHELOMETER  
 UNITS - 01 - UG/CU METRE (25 C)

TOKYO

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	364	2	20	33	48	55	64	77	98	118	145	170	54.2	31.8	45.7	1.83
	84	122	14	18	27	39	45	52	64	83	96	108	132	45.0	25.4	38.7	1.74
SITE 002 SUBURBAN RESIDENTIAL	83	361	2	19	32	46	53	60	72	94	110	143	175	51.5	30.2	43.3	1.84
	84	362	10	20	34	44	50	60	75	111	133	167	324	55.9	41.2	45.7	1.85
	85	60	11	15	32	40	46	56	66	78	93	96	111	45.3	24.5	38.7	1.80
SITE 003 CENTRE CITY INDUSTRIAL	83	361	2	22	35	49	56	64	76	101	119	143	190	55.6	32.1	47.4	1.79
	84	60	15	18	27	38	43	47	55	76	81	94	120	43.1	22.2	38.2	1.63

KUWAIT

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL. GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

KUWAIT CITY

SITE 1 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	84	125	52	143	252	410	498	590	866	1247	-	-	5949	614	708	415	841
	85	139	78	180	243	311	356	395	516	994	-	-	5942	402	710	349	796

KUWAIT		POLLUTANT - 11101 - SUSPENDED PART. METHOD - 91 - HI-VOL. GRAVIMETRIC UNITS - 01 - UG/CU METRE (25 C)										KUWAIT CITY					
SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 2 CENTRE CITY COMMERCIAL	84	144	137	233	369	480	556	717	1020	1860	-	-	4319	770	765	557	931
	85	148	136	235	298	425	472	549	629	1535	-	-	4006	625	628	469	751
SITE 3 SUBURBAN RESIDENTIAL	84	152	73	145	250	389	431	542	726	1125	-	-	5390	597	731	397	857
	85	154	95	149	230	304	340	383	464	708	-	-	4153	447	566	321	646

MALAYSIA		POLLUTANT - 11101 - SUSPENDED PART. METHOD - 91 - HI-VOL. GRAVIMETRIC UNITS - 01 - UG/CU METRE (25 C)										KUALA LUMPUR					
SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001 SUBURBAN INDUSTRIAL	83	99	12	48	75	94	100	114	134	175	192	229	276	103.5	49.0	92.5	1.64

NEW ZEALAND		POLLUTANT - 11204 - SMOKE SHADE METHOD - 91 - SMOKE SHADE REFLECTANCE UNITS - 01 - UG/CU METRE (25 C)										AUCKLAND					
SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001 SUBURBAN INDUSTRIAL	83	357	LD	1	2	4	4	6	7	10	13	18	35	4.8	4.5	3.3	2.36
SITE 002 CENTRE CITY COMMERCIAL	83	365	1	1	1	3	3	4	6	10	13	17	28	4.2	4.5	2.8	2.43
SITE 003 CENTRE CITY RESIDENTIAL	83	364	LD	1	1	2	3	4	7	12	18	23	36	4.4	5.8	2.4	2.84

NEW ZEALAND		POLLUTANT - 11204 - SMOKE SHADE METHOD - 91 - SMOKE SHADE REFLECTANCE UNITS - 01 - UG/CU METRE (25 C)										CHRISTCHURCH					
SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 001 SUBURBAN RESIDENTIAL	83	336	LD	1	3	7	11	17	30	53	81	124	270	19.7	32.3	7.4	4.30
SITE 002 SUBURBAN INDUSTRIAL	83	341	LD	1	2	3	4	7	13	25	34	57	147	9.0	15.7	3.7	3.74
SITE 003 SUBURBAN COMMERCIAL	83	342	LD	1	2	5	7	11	22	48	72	123	202	16.6	30.6	6.0	3.92

## PHILIPPINES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

DAVAO

SITE 002 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	30	13	20	74	143	195	242	301	372	637	637	863	205.3	202.2	126.3	2.97

## POLAND

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

WARSAW

SITE 001 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	194	LD	8	19	30	38	51	68	101	153	213	398	48.0	55.7	28.7	3.00
	84	212	3	11	24	39	55	65	88	117	159	191	251	55.7	48.3	38.9	2.43
	85	213	LD	20	38	55	66	78	103	128	174	216	340	69.3	54.0	49.8	2.67
SITE 002 CENTRE CITY INDUSTRIAL	83	195	2	8	21	32	40	55	71	93	117	155	219	44.5	38.7	30.2	2.61
	84	292	2	13	25	41	52	60	74	95	123	154	298	50.8	41.6	37.4	2.31
	85	276	10	24	42	57	66	82	105	139	194	258	620	75.9	65.5	59.1	1.99
SITE 003 CENTRE CITY COMMERCIAL	83	227	2	13	24	38	46	59	83	112	147	169	366	53.9	50.6	37.8	2.39
	84	297	3	15	31	47	57	72	89	115	140	194	352	59.8	46.8	45.4	2.18
	85	297	LD	25	45	70	81	95	130	177	224	323	457	88.3	74.2	62.6	2.62

## POLAND

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

WROCLAW

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	289	9	26	40	59	74	91	117	174	242	364	490	84.9	77.8	63.4	2.08
	84	294	2	22	37	56	73	96	149	217	272	312	453	90.7	83.5	61.1	2.55
	85	288	6	27	45	60	71	94	119	195	260	355	585	89.3	82.7	65.0	2.20
SITE 002 CENTRE CITY INDUSTRIAL	83	283	6	20	34	50	58	68	83	113	154	224	341	61.6	47.6	48.5	2.01
	84	285	2	15	33	47	56	68	88	124	157	199	351	60.9	49.4	44.0	2.43
	85	246	4	19	34	46	54	69	88	129	156	206	237	61.5	46.4	47.6	2.08
SITE 003 CENTRE CITY RESIDENTIAL	83	276	8	28	50	67	80	94	118	151	197	258	345	84.0	57.5	68.3	1.93
	84	283	LD	7	21	37	50	64	84	116	159	211	483	54.8	56.5	33.3	3.03
	85	279	2	19	29	38	45	55	76	110	135	156	322	52.6	42.8	41.4	1.97

## PORTUGAL

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

LISBON

SITE 002 CENTRE CITY RESIDENTIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	97	13	39	63	82	96	104	125	162	184	247	282	93.8	52.6	80.5	1.78
	84	88	16	46	61	79	95	104	113	131	182	229	248	88.7	43.3	79.7	1.59
	85	107	39	55	72	106	120	145	174	206	251	283	508	122.4	71.8	106.0	1.70

PORTUGAL

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

LISBON

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 003 CENTRE CITY	83	64	31	55	86	114	124	136	165	190	203	213	255	118.4	49.9	107.7	1.57
	84	93	11	51	71	95	113	130	141	167	185	231	293	105.0	49.5	93.7	1.65
	85	100	39	51	87	116	133	145	181	210	265	306	327	128.4	65.0	113.5	1.66
SITE 004 SUBURBAN RESIDENTIAL	83	104	18	31	52	82	93	101	150	218	285	366	530	105.8	86.0	82.3	2.00
	84	79	8	34	54	77	92	100	109	147	176	202	248	85.7	48.3	72.4	1.87
	85	67	29	49	79	100	120	137	154	172	200	224	229	109.6	49.0	98.4	1.62

ROMANIA

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 92 - MEMBRANE - GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

BUCAREST

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 1 SUBURBAN RESIDENTIAL	83	255	14	43	67	85	103	129	162	246	298	353	547	118	88	94	2
	84	256	10	44	64	77	86	95	110	135	168	187	418	81	43	78	2
	85	252	22	43	65	86	101	120	142	184	213	252	294	101	56	87	2
SITE 2 CENTRE CITY RESIDENTIAL	83	249	12	29	38	48	54	65	78	92	119	140	160	57	29	51	2
	84	238	13	25	40	56	67	79	98	122	170	328	581	74	69	58	2
	85	233	12	38	52	64	74	85	100	129	148	189	225	75	39	67	2
SITE 3 CENTRE CITY COMMERCIAL	83	149	19	43	76	94	105	123	142	170	223	250	395	107	59	93	2
SITE 4 SUBURBAN INDUSTRIAL	83	103	27	50	70	84	91	108	124	180	256	300	321	102	60	89	2
	84	162	18	38	59	70	83	92	106	118	138	156	250	78	34	71	2
	85	180	11	48	65	80	88	97	125	167	236	293	363	97	61	84	2

ROMANIA

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 92 - MEMBRANE - GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

CRAIOVA

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
SITE 1 CENTRE CITY COMMERCIAL	83	233	24	34	50	63	77	97	122	168	226	307	557	90	71	72	2
	84	218	19	31	46	50	67	74	84	106	127	214	443	69	46	60	2
	85	219	9	33	46	59	71	86	107	136	161	206	296	75	46	64	2
SITE 2 SUBURBAN RESIDENTIAL	83	207	10	21	26	32	36	44	56	79	105	145	361	44	36	36	2
	84	80	9	23	36	43	48	54	73	117	144	183	237	57	42	47	2
	85	168	7	33	45	58	66	74	85	101	120	142	227	64	31	57	2

## ROMANIA

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 92 - MEMBRANE - GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

CRAIOVA

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 3 SUBURBAN INDUSTRIAL	83	60	13	22	30	40	47	55	64	82	96	172	181	49	32	42	2
	84	85	12	19	28	37	43	49	61	80	108	114	144	45	27	39	2
	85	108	7	28	36	44	48	56	72	83	110	132	164	52	28	46	2

## SPAIN

POLLUTANT - 11201 - SOIL INDEX  
METHOD - 71 - TAPE SAMPLER TRANSMITTANCE  
UNITS - 01 - UG/CU METRE (25 C)

MADRID

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	83	271	LD	14	28	47	58	69	91	127	151	259	364	63.0	58.4	38.9	3.53
SITE 002 SUBURBAN RESIDENTIAL	83	330	LD	LD	10	20	31	43	62	91	123	163	252	36.3	41.9	14.7	5.47

## SPAIN

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

MADRID

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 CENTRE CITY COMMERCIAL	84	197	4	34	60	91	109	130	165	214	291	325	407	111.5	78.0	86.7	2.14
	85	303	5	28	45	60	74	89	124	163	209	273	465	83.9	68.5	64.6	2.06
SITE 002 SUBURBAN RESIDENTIAL	84	286	LD	21	33	42	46	51	61	83	101	125	209	47.4	28.8	39.6	2.00
	85	296	17	23	37	45	49	60	71	103	120	168	340	55.8	39.8	47.0	1.74

## THAILAND

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

BANGKOK

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 001 SUBURBAN INDUSTRIAL	83	114	21	114	163	195	217	241	311	460	521	694	999	247.1	159.4	211.5	1.73
	84	81	57	120	158	189	213	234	280	359	378	513	767	218.3	110.6	197.4	1.55
SITE 002 SUBURBAN RESIDENTIAL	83	156	72	103	126	162	172	182	200	224	258	280	394	163.0	52.3	155.1	1.37
	84	75	76	108	150	183	195	242	264	308	371	458	458	205.3	87.0	189.3	1.49
SITE 003 SUBURBAN RESIDENTIAL	83	108	43	79	116	182	207	231	257	290	354	402	589	187.5	92.4	165.9	1.66
	84	118	63	127	186	234	252	272	293	335	377	433	612	237.1	88.0	220.8	1.47

## UNITED KINGDOM

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

## GLASGOW

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	3	3	6	13	14	17	22	36	57	94	167	17.7	20.9	11.5	2.47
	84	366	3	3	7	11	16	20	25	35	47	79	163	17.6	19.7	11.8	2.42
	85	365	3	3	9	13	17	21	30	45	60	77	120	19.7	19.2	13.4	2.43
SITE 003 CENTRE CITY INDUSTRIAL	83	365	3	3	3	10	10	14	18	36	52	90	182	15.5	20.9	9.0	2.69
	84	349	3	3	3	6	10	13	17	22	32	42	121	11.4	12.8	7.8	2.28
	85	339	3	3	5	9	11	14	21	35	49	70	130	15.1	18.1	9.6	2.47

## UNITED KINGDOM

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

## LONDON

SITE 001 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	365	6	19	24	28	32	35	42	51	68	77	132	33.4	16.6	30.4	1.51
	84	366	6	16	23	30	34	37	42	49	61	75	175	32.6	16.7	29.3	1.59
	85	307	3	11	23	28	32	35	41	54	74	84	107	31.6	18.5	26.5	1.88
SITE 003 SUBURBAN INDUSTRIAL	83	361	1	5	8	12	14	18	24	36	48	68	109	17.0	15.7	12.3	2.24
	84	366	1	4	6	9	11	14	18	24	31	42	69	12.3	9.6	9.5	2.10
	85	361	1	3	6	9	11	14	18	25	30	39	119	12.1	11.3	8.6	2.31

## UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

## BIRMINGHAM

SITE 012 CENTRE CITY COMMERCIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	292	19	38	53	66	78	87	105	134	154	193	293	77.9	41.3	69.3	1.61
	84	253	23	44	57	69	74	82	96	116	134	146	239	74.8	30.4	69.4	1.47
	85	153	22	40	54	67	75	82	93	115	139	178	256	75.7	36.0	69.0	1.53
SITE 023 CENTRE CITY INDUSTRIAL	83	219	19	36	50	72	81	98	116	142	168	202	238	81.5	44.5	71.0	1.69
	84	254	19	43	60	78	87	103	122	148	170	200	216	88.0	42.2	78.9	1.60
	85	150	22	39	55	75	87	101	119	144	174	180	214	84.5	42.6	74.5	1.66

## UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

## BIRMINGHAM - FAIRFIELD

SITE 003 SUBURBAN INDUSTRIAL	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
	83	295	15	28	38	46	51	57	66	81	90	100	120	50.7	20.4	46.8	1.49
	84	252	18	34	44	50	55	59	64	75	87	95	139	53.3	17.7	50.5	1.38
	85	153	16	35	42	49	53	58	62	73	77	83	95	51.1	15.3	48.7	1.36

UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

CHICAGO

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 022																	
CENTRE CITY																	
INDUSTRIAL	83	56	34	49	66	85	110	127	145	167	190	317	332	106.6	60.1	93.4	1.66
	84	54	26	44	56	83	94	113	142	176	203	233	240	98.4	55.0	85.0	1.72
	85	50	24	39	60	85	103	119	139	176	252	539	545	103.6	82.5	84.8	1.84
SITE 047																	
CENTRE CITY																	
RESIDENTIAL	83	57	18	31	50	73	83	95	128	155	163	267	392	85.9	60.5	70.9	1.85
	84	54	20	30	53	73	85	98	115	126	156	187	189	77.4	38.3	68.0	1.70
	85	51	19	24	39	53	76	83	120	136	153	322	328	72.8	54.1	58.8	1.92
SITE 049																	
CENTRE CITY																	
INDUSTRIAL	83	57	33	38	65	86	93	107	128	145	182	663	747	99.4	96.3	82.1	1.75
	84	60	21	38	60	81	89	101	115	123	132	171	174	82.4	32.9	75.5	1.56
	85	56	12	35	53	73	83	99	118	133	145	411	453	83.7	61.1	71.0	1.76

UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
 METHOD - 91 - HI-VOL GRAVIMETRIC  
 UNITS - 01 - UG/CU METRE (25 C)

NEW YORK CITY

SITE	YR	NO	MIN	PERCENTILES									MAX	ARITHMETIC		GEOMETRIC	
				10	30	50	60	70	80	90	95	98		MEAN	STD	MEAN	STD
SITE 004																	
SUBURBAN																	
RESIDENTIAL	83	59	16	25	33	42	44	50	56	69	77	81	82	43.4	16.0	40.6	1.45
	84	54	24	29	38	49	51	55	63	73	93	114	114	50.3	18.9	47.3	1.41
	85	53	18	28	35	45	52	56	60	71	90	119	120	48.2	20.1	44.6	1.48
SITE 010																	
CENTRE CITY																	
RESIDENTIAL	83	58	25	33	40	51	59	64	70	86	87	111	115	54.5	19.5	51.2	1.42
	84	60	36	42	50	59	62	67	72	91	110	123	126	62.2	19.4	59.6	1.33
	85	56	31	46	51	65	74	82	86	92	101	122	124	67.8	20.0	64.9	1.35
SITE 011																	
CENTRE CITY																	
INDUSTRIAL	83	57	22	36	48	59	67	74	82	101	106	127	128	63.3	23.4	59.2	1.46
	84	60	33	47	54	63	65	72	82	104	116	125	126	67.0	21.0	64.1	1.34
	85	57	34	44	62	69	76	86	91	101	122	128	129	73.6	22.3	70.3	1.36

UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

CHATTANOOGA

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
-----																	
SITE 019																	
CENTRE CITY																	
COMMERCIAL	83	59	20	31	47	64	71	77	81	93	113	115	115	62.8	23.8	58.0	1.52
	84	61	20	34	44	56	63	65	82	99	108	137	146	60.0	25.0	55.3	1.51
	85	57	16	25	46	57	60	68	77	99	121	145	146	60.0	28.3	53.5	1.66
SITE 020																	
CENTRE CITY																	
COMERCIAL	83	59	22	30	45	65	78	84	96	110	133	142	144	68.1	31.0	60.9	1.64
	84	60	18	32	51	59	67	82	102	126	167	182	185	72.0	38.9	63.1	1.68
	85	61	12	24	43	55	66	75	85	132	181	197	198	66.1	42.1	55.2	1.84
SITE 025																	
CENTRE CITY																	
RESIDENTIAL	83	60	16	27	35	47	54	61	68	75	94	104	105	50.2	20.7	46.0	1.54
	84	58	12	27	37	46	52	59	62	71	91	183	203	50.3	26.6	45.5	1.56
	85	58	13	20	34	41	46	53	57	65	78	90	92	43.3	17.1	39.8	1.54

UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

HOUSTON - HARRIS CO

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
-----																	
SITE 024																	
SUBURBAN																	
RESIDENTIAL	83	53	22	31	48	62	70	75	82	97	115	142	144	63.6	25.6	58.6	1.52
	84	61	17	30	42	48	52	57	63	78	112	133	138	52.5	22.3	48.7	1.48
	85	61	10	26	35	47	52	57	64	69	96	127	130	48.9	21.7	44.3	1.59

UNITED STATES

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

HOUSTON

SITE	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
-----																	
SITE 001																	
CENTRE CITY																	
COMMERCIAL	83	57	33	43	58	69	73	79	85	99	102	110	111	69.1	18.8	66.4	1.34
	84	54	34	41	49	59	64	69	84	106	115	207	216	66.3	30.0	61.7	1.44
	85	54	13	35	47	56	60	71	72	85	123	134	134	59.4	24.4	54.4	1.57
SITE 034																	
SUBURBAN																	
RESIDENTIAL	83	51	35	45	60	71	76	78	87	108	114	126	126	72.2	20.7	69.4	1.34
	84	55	27	38	51	60	71	80	85	97	115	170	176	67.0	26.6	62.5	1.45
	85	56	18	38	54	62	66	70	77	85	103	132	133	62.2	22.0	58.1	1.48

VENEZUELA

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 91 - HI-VOL GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

CARACAS

SITE 004	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
TYPE																	
ON TABLE	83	43	57	63	84	93	98	103	110	133	138	150	161	96.0	24.0	93.2	1.28
	84	25	LD	46	65	76	85	107	122	190	199	223	223	94.7	56.6	61.1	4.52
	85	57	LD	LD	40	56	61	66	73	80	88	105	119	50.1	30.3	23.1	6.89

SITE 005

TYPE NOT

ON TABLE	83	37	24	29	50	59	62	64	74	80	84	115	151	60.6	24.1	56.3	1.47
	84	36	46	67	83	103	109	115	138	145	190	208	235	108.9	41.5	102.2	1.49
	85	57	39	73	88	98	105	114	133	144	152	160	235	105.3	32.0	100.9	1.34

VENEZUELA

POLLUTANT - 11204 - SMOKE SHADE  
METHOD - 91 - SMOKE SHADE REFLECTANCE  
UNITS - 01 - UG/CU METRE (25 C)

CARACAS

SITE 002	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
CENTRE CITY																	
COMMERCIAL	83	276	16	21	25	31	32	36	41	44	47	53	58	31.8	9.1	30.5	1.33
	84	253	13	19	23	27	29	32	36	41	44	48	61	28.7	8.6	27.5	1.34
	85	221	18	22	28	31	33	34	37	42	44	49	86	31.7	8.1	30.7	1.27

YUGOSLAVIA

POLLUTANT - 11101 - SUSPENDED PART.  
METHOD - 92 - MEMBRANE SAMPLER GRAVIMETRIC  
UNITS - 01 - UG/CU METRE (25 C)

ZAGREB

SITE 001	YR	NO	MIN	PERCENTILES								MAX	ARITHMETIC		GEOMETRIC		
				10	30	50	60	70	80	90	95		98	MEAN	STD	MEAN	STD
CENTRE CITY																	
COMMERCIAL	83	181	10	56	85	115	129	150	190	237	282	337	494	133.4	75.6	114.7	1.76
	84	181	11	56	87	109	125	141	162	217	268	333	671	129.2	82.5	110.0	1.78
	85	162	41	72	108	138	150	167	192	239	298	365	529	150.8	76.7	135.1	1.59
SITE 002																	
SUBURBAN																	
RESIDENTIAL	83	202	31	54	86	111	120	136	185	257	309	347	418	133.4	79.9	114.0	1.74
	84	215	2	52	72	99	111	135	165	203	232	295	471	115.1	66.2	98.3	1.82
	85	185	40	63	93	119	131	150	182	234	272	348	435	135.8	71.9	120.2	1.63
SITE 003																	
CENTRE CITY																	
INDUSTRIAL	83	187	3	56	86	103	111	130	157	212	241	296	497	120.8	69.0	105.1	1.74
	84	189	4	49	78	105	121	136	170	205	242	288	345	117.2	63.4	99.8	1.85