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## ABBREVIATIONS

°C	Degree Celsius
µg	Micrograms
ACGIH	American Conference of Industrial Hygienists
AML	Acute Myelogenous Leukemia
BET	Brunauer–Emmett–Teller
BSTFA	N,O-Bis(trimethylsilyl)trifluoroacetamide
BTEX	Benzene Toluene Ethylbenzene Xylene
C	Carbon
C <sub>i</sub>	Concentration in inlet of treatment
C <sub>0</sub>	Concentration in outlet of treatment
cm <sup>2</sup>	Square centimetre
CMR	(C: Carcinogen, M: Mutagenic, R: Reprotoxic)
CYP	Cytochrome
e <sup>-</sup>	Electron
EBRT	Empty Bed Residence Time
Fv/Fm	the ratio between variable fluorescence and maximal fluorescence
eV	Electron vole
FT-IR	Fourier transform infrared spectroscopy
g	Grams
GC-FID	Gas chromatography- flame ionization detector
h	hour
H	Hydrogen
H <sub>3</sub> PO <sub>4</sub>	phosphoric acid
HPLC	High-performance liquid chromatography
IARC	The International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
inch <sup>2</sup>	Square inch
IUPAC	The International Union of Pure and Applied Chemistry
Kg	Kilograms
K <sub>OW</sub>	Octanol-Water Partition Coefficient
L	litter
LD <sub>50</sub>	50% lethal dose
M	Molar
m <sup>3</sup>	Cubic meter
MBq	Megabecquerel
M <sub>c</sub>	Mole concentration
mg	Milligrams
MIRCEN	Microbiological resources centre, Bangkok
mL	Millilitre
mM	Millimolar
mmol	Millimoles
MS	mass spectrometry
NADH	Nicotinamide adenine dinucleotide

**ABBREVIATIONS (CONT.)**

NADPH	Nicotinamide adenine dinucleotide phosphate
NASA	The National Aeronautics and Space Administration
P	Pressure
PAHs	Poly-aromatic-hydrocarbons
PHA	Poly-hydroxy-alkanoates
ppb	Parts per billion
ppm	Parts per million
Q	Air flow
ROS	Reactive oxygen species
T	Temperature
TCA	Tricarboxylic acid
TCE	Trichloroethylene
TNT	Trinitrotoluene
V	Volume of the system
V <sub>b</sub>	Volume of bed
VOCs	Volatile organic compounds
USEPA	United States Environmental Protection Agency
USNTP	United States National Toxicological Program
UV	Ultraviolet
W	Weight
ZnCl <sub>2</sub>	Zinc chloride