TECHNICAL ASSISTANCE DOCUMENT FOR THE NATIONAL AMBIENT AIR TOXICS TRENDS AND ASSESSMENT PROGRAM

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February 28, 2007

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ACRONYMS AND ABBREVIATIONS

ACN	acetonitrile
ACS	American Chemical Society
amu	atomic mass unit
ANSI	American National Standards Institute
AQS	Air Quality System
ASE	accelerated solvent extraction
ASQ	American Society for Quality
ASQC	American Society for Quality Control
BC	black carbon
BFB	4-bromofluorobenzene
CAA	Clean Air Act
CARB	California Air Resources Board
CBL	convective boundary layer
cc,cm^3	cubic centimeter
CCB	continuing calibration blank
CCV	continuing calibration verification
CD	compact disk
CFR	Code of Federal Regulations
cm	centimeter
COC	chain of custody
Cr^{+6}, Cr^{VI}	hexavalent chromium
CSV	comma separated variable
CV	coefficient of variation
dB	decibels
DDD	*p, p'*-diclorodiphenyldichloroethane
DDE	*p, p'*-dichlorodiphenyldichloroethylene
DDL	dynamic link library
DDT	*p, p'*-diclorodiphenyltrichloroethane
DFTPP	decafluorotriphenylphosphine
DNPH	2,4-dinitrophenylhydrazine

ACRONYMS AND ABBREVIATIONS

DNSH	dansylhydrazine
DQA	data quality assessment
DQI	data quality indicator
DQO	data quality objective
EC	elemental carbon
ECD	electron capture detector
EI	electron ionization
EPA	U.S. Environmental Protection Agency
EPC	electronic pressure control
ER	extended range
ERG	Eastern Research Group, Inc.
eV	electron volts
FAA	Federal Aviation Administration
FID	flame ionization detector
FRM	Federal Reference Method
FTIR	Fourier transform IR
FTP	File transfer protocol
g	gram(s)
GACT	Generally Achievable Control Technology
GC	gas chromatograph/gas chromatography
GC/MS	gas chromatograph/mass spectrometer, gas chromatography/mass spectrometry
GPRA	Government Performance Results Act
HAP	hazardous air pollutant
Hg	mercury
HPLC	high performance liquid chromatography
HRGC	high resolution gas chromatography
HRMS	high resolution mass spectrometry
HS	high sensitivity
HSV	high standard verification
IC	initial calibration
IC	ion chromatography

ICB	initial calibration blank
ICP	inductively coupled plasma
ICS	interference check standard
ICV	initial calibration verification
ID	identification
in.	inch(es)
IO	Inorganic (*EPA Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air*. EPA/625/R-96/01a)
IPA	instrument performance audit
IS	internal standard
KI	potassium iodide
km	kilometer
kW	Kilowatt
L	liter(s)
LCS	laboratory control standard; laboratory control spike
LIDAR	light detection and ranging
LFB	laboratory fortified blank
LIMS	Laboratory Information Management System
Lpm	liters per minute
LRB	laboratory reagent blank
MACT	Maximum Achievable Control Technology
m	meter(s)
MB	megabyte(s)
MB	method blank
MDL	method detection limit
mg	milligram(s)
min	minute(s)
mL	milliliter(s)
mm	millimeter(s)
MQO	measurement quality objective

ACRONYMS AND ABBREVIATIONS

MRRT	mean relative retention time
MS	mass spectrometer/mass spectrometry; matrix spike
MS/MSD	matrix spike/matrix spike duplicate
cg	microgram(s)
cL	microliter(s)
cm	micrometer(s)
cs	microsecond(s)
n	number
NAAQS	National Ambient Air Quality Standard
NAMS	National Air Monitoring Station
NATA	National Air Toxics Assessment
NATTS	National Air Toxics Trends Stations
ND	not detected
NERL	National Exposure Research Laboratory (EPA)
NESCAUM	Northeast States for Coordinated Air Use Management
ng	nanogram(s)
NIOSH	National Institute for Occupational Safety and Health
NIST	National Institute of Standards and Technology
nm	nanometer
NMOC	nonmethane organic compounds
NO_X	oxides of nitrogen
NPEP	National Performance Evaluation Program
NWS	National Weather Service
O_3	ozone
OAQPS	Office of Air Quality Planning and Standards (EPA)
OC	organic carbon
ORD	Office of Research and Development (EPA)
ORIA	Office of Radiation and Indoor Air (EPA)
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon, polynuclear aromatic hydrocarbon
PAMS	Photochemical Assessment Monitoring Stations

PBMS	Performance-based measurement system
PBT	Persistent Bioaccumulative Toxics Initiative
PCB	polychlorinated biphenyl
PCDD	polychorinated dibenzo-*p*-dioxin
PCDF	polychorinated dibenzofuran
PDFID	preconcentration direct flame ionization detection
PE	performance evaluation
PFK	perfluorokerosene
pg	picogram(s)
PM	particulate matter
$PM_{2.5}$	particulate matter with an aerodynamic diameter ≤ 2.5 microns
PM_{10}	particulate matter with an aerodynamic diameter ≤ 10 microns
POC	parameter occurrence code
ppb	parts per billion
ppbC	parts per billion as carbon
ppbv	parts per billion (by volume)
ppmC	parts per million as carbon
ppmv	parts per million (by volume)
PSP	precision spectral pyranometer
psig	pounds per square inch gauge
PT	Proficiency Test
PTFE	polytetrafluoroethylene
PUF	polyurethane foam
PVC	polyvinyl chloride
QA	quality assurance
QAAR	Quality Assurance Annual Report
QAD	Quality Assurance Division (EPA)
QAPP	Quality Assurance Project Plan
QC	quality control
QCS	quality control specifications
QMP	quality management plan

radar	radio detection and ranging
RASS	radio acoustic sounding system
RB	reagent blank
RCA	recommendation for corrective action
RF	response factor
RH	Relative humidity
rms	root mean square
RPD	relative percent difference
RRF	relative response factor
RRT	relative retention time
RSD	relative standard deviation
RT	retention time
RTD	resistance temperature detector
RTP	Research Triangle Park
scfm	standard cubic feet per minute
scm	standard cubic meters
scmm	standard cubic meters per minute
SD	standard deviation
SIM	selected ion monitoring
SIP	State Implementation Plan
SLAMS	State and Local Air Monitoring Stations
sodar	sound detection and ranging
SOP	standard operating procedure
SRM	standard reference material
SSQC	second source quality control
STI	Sonoma Technology, Inc.
STP	standard temperature and pressure
SVOC	semivolatile organic compound
TAD	technical assistance document
TCDD	tetrachlorodibenzo-*p*-dioxin
TCEQ	Texas Commission on Environmental Quality

ACRONYMS AND ABBREVIATIONS

TM	toxics monitoring
TMDL	Total Maximum Daily Load Initiative
TO	toxic organic *(EPA Compendium for the Determination of Toxic Organic Compounds in Ambient Air*, Second Edition. EPA/625/R-96/01b)
TSA	technical systems audit
TSP	total suspended particulate
TTU	Texas Tech University
UAM	urban airshed model
UATMP	Urban Air Toxics Monitoring Program
UATS	Urban Air Toxics Strategy
UV-DOAS	UV-differential optical absorption spectroscopy
VOC	volatile organic compound
WUAQL	Washington University Air Quality Laboratory