

Sampling Solutions for Ambient Air

Introduction

Pollutant levels in ambient air are monitored over a long period by measuring the number and kinds of pollutants in the surrounding outdoor air.

SKC offers active and passive sampling solutions for some compounds present in fertilizers, pesticides, poultry farming/processing, and food additives. SKC active samplers require an air sample pump to collect hazardous gases and



vapours in air; passive samplers collect hazardous vapours by diffusion without the use of an air sample pump.

See the SKC equipment recommended for sampling the following compounds in ambient air monitoring:

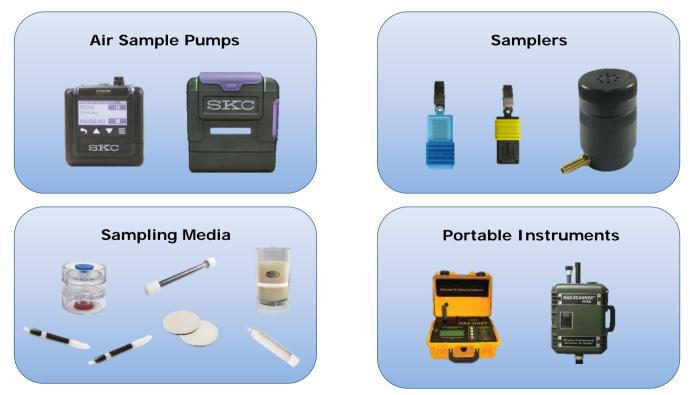
• Formaldehyde

- Volatile organic compounds (VOCs)
- Nitrogen dioxide

- Pesticides, PCBs and PAHs
- Particulate Matter

SKC Sampling Solutions

For over 50 years, SKC has led the research, design, and manufacture of quality sampling equipment and media to aid health and safety professionals in the evaluation of occupational and environmental hazards. SKC method-based sampling solutions for ambient air monitoring include air sample pumps, active and passive samplers, filter cassettes, sorbent tubes and innovative portable instruments.



Sample Collection

Active Air Sampling Solutions

Target Compound	Select Methods*	SKC Sample Collection Media and Part No.	SKC Sample Pump and Part No.	Notes
Formaldehyde	<u>TO-11A</u>	Sorbent tube <u>226-119</u> or <u>226-120</u>	AirChek TOUCH 220-5000TC	
PAHs	ASTM D6209 <u>EPA TO-13A</u>	PUF tube <u>226-131</u> and quartz filter <u>225-1808</u>	-	
	Modification of methods above	Filter/PUF <u>226-206</u> or filter/PUF/ XAD-2/PUF <u>226-207</u>	Deployable Cartridge Sampler 100-3960	
	<u>NIOSH 5506</u>	Preloaded filter cassette <u>225-1713</u> (pre-filter) and sorbent tube <u>226-30-04</u>	AirChek TOUCH 220-5000TC	
PCBs	<u>EPA TO-10A</u>	PUF tube <u>226-92</u> or <u>226-124</u>	AirChek TOUCH 220-5000TC	
	EPA TO-4A	PUF tube <u>226-131</u> and quartz filter <u>225-1808</u>	-	
	Modification of methods above	Media cartridge containing filter/ PUF <u>226-206</u> or filter/PUF/ XAD- 2/PUF <u>226-207</u>	Deployable Cartridge Sampler 100-3960	
Pesticides	EPA TO-10A	PUF tube <u>226-92</u> or <u>226-124</u>	AirChek TOUCH 220-5000TC	
	EPA TO-4A	PUF tube 226-131 and quartz filter 225-1808	-	
	Modification of methods above	Media cartridge containing filter/ PUF <u>226-206</u> or filter/PUF/ XAD- 2/PUF <u>226-207</u>	Deployable Cartridge Sampler 100-3960	
VOCs	<u>EPA TO-17A</u>	Thermal desorption tube 226-300 Series	Pocket Pump TOUCH 220-1000TC	

* Other methods may apply. SKC recommends those listed.

Passive Air Sampling Solutions

Target Compound	Select Methods*/ SKC Validation	SKC Sample Collection Media/Sampler and Part No.	Notes
Nitrogen dioxide and/or sulphur dioxide	Research Reports <u>1789</u> and <u>1781</u>	UME ^x 200 <u>500-200</u>	
Organic vapours	Research Report <u>1667</u>	ULTRA <u>690 Series</u>	

* Other methods may apply. SKC recommends those listed.

Monitoring Solutions

Target Compound	SKC Sample Collection Media/Sampler and Part No.	Notes
PM10 and 2.5	Particulate Monitors	Custom configured
VOCs	HAZ-SCANNER EPAS	Custom configured