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Formaldehyde Sampling Technical Bulletin:

Sampling with Passive Monitors for Indoor Air Quality Assessment

Looking for a passive monitor sampling method that requires no special equipment or expert knowledge? Analytics offers the SKC-brand UMEX passive monitor for the determination of formaldehyde in indoor air. The monitor is chemically treated to collect formaldehyde, with a recommended sampling time of 4 to 24 hours to represent occupational or residential exposures.

For trailers, new buildings, etc. just place the monitor in the living/working area of the room, at breathing zone height. **NOTE:** Passive monitors require active air circulation, and so may require the HVAC fan (or other circulating fans) to run non-stop during sampling.

UMEX monitors should be kept cool (refrigerator or freezer) before and after sampling for best results. A blank (unused) monitor should be submitted with each sample set for use as a control. Blanks are handled and charged the same as samples.

Below are suggested times for sampling and the measurement sensitivity for each sampling time:

Passive Media	Sampling Times	Concentration
SKC UMEX-100 (Passive Monitor)	4 Hours	20 ppb (or 0.02 ppm)
	8 Hours	10 ppb (or 0.010 ppm)
	24 Hours	2 ppb (or 0.002 ppm)

ppb = parts per billion

ppm = parts per million

HOW ARE THEY ANALYZED?

The DNPH-treated sampler is analyzed by High Performance Liquid Chromatography, the most sensitive method currently in routine use. It should be noted that ketones (such as acetone) and other aldehydes can interfere with this method. Any other compounds suspected in the sampling area should be noted on the Chain of Custody (CoC) form.

ADDITIONAL NOTES

Ship samples by overnight courier in a cooler. Samples collected on Fridays or weekends can ship the following Monday.

QUESTIONS?

These are not the only options for formaldehyde sampling. For more information, please contact **Trena Stooksberry at 800-888-8061, x 5007** or tstooksberry@analyticscorp.com with questions.