

## Calculation: Use Equation (2) for VOC quantitative analysis

Ethylbenzene was examined with an integral analysis of 49,926 by the GC-MS, and the sampling time at the site was 12 min. The standard concentration of gaseous ethylbenzene prepared in the 1-L Tedler bag is 10 ppm and the analysis area by the GC-MS was 4,523,619. Substituting the data into the Eq. (2), the concentration of ethylbenzene in the site was calculated as  $(49,926/4,523,619) \times (1/12) \times 10 = 0.015 \text{ ppm} = 9.0 \text{ ppb}$ .