

Supplemental Materials
Emission of Carbonyl Compounds in the Night Market Areas

Table S1. Molecular Mass of Target compounds

| Carbonyl compounds | Molecular Mass |
|---------------------|----------------|
| Formaldehyde(FA) | 210.15 |
| Acetaldehyde(AA) | 224.17 |
| Propionaldehyde(PA) | 238.20 |
| Crotonaldehyde(CA) | 250.21 |

Table S2. Risk parameter values for night market health risk assessment

| | Cancer risk | Non- Cancer risk |
|---|-----------------|------------------|
| IR _{inhalation factor} (Nm ⁻³ day) | 14.2 | |
| ET _{exposure time} (hrs day ⁻¹) | 7 ^a | |
| EF _{exposure frequency} (days year ⁻¹) | 96 ^b | |
| ED _{exposure duration} (years) | 40 | |
| AT _{average lifetime} (years) | 70 | 40 |
| BW _{body weight} (kg) | 70.6 | |
| SF _{slope factor} (mg ⁻¹ kg ⁻¹ day ⁻¹) | | |
| <i>Formaldehyde</i> | 0.021 | - |
| <i>Acetaldehyde</i> | 0.01 | - |
| RfD (mg ⁻¹ kg ⁻¹ day ⁻¹) | | |
| <i>Formaldehyde</i> | | 0.2 |
| <i>Acetaldehyde</i> | | 0.0026 |

^a the night market opens from 6 pm to 1 am, thus vendors are exposed 7 hours per day.

^b approximate number of working days in a year (two days a week).

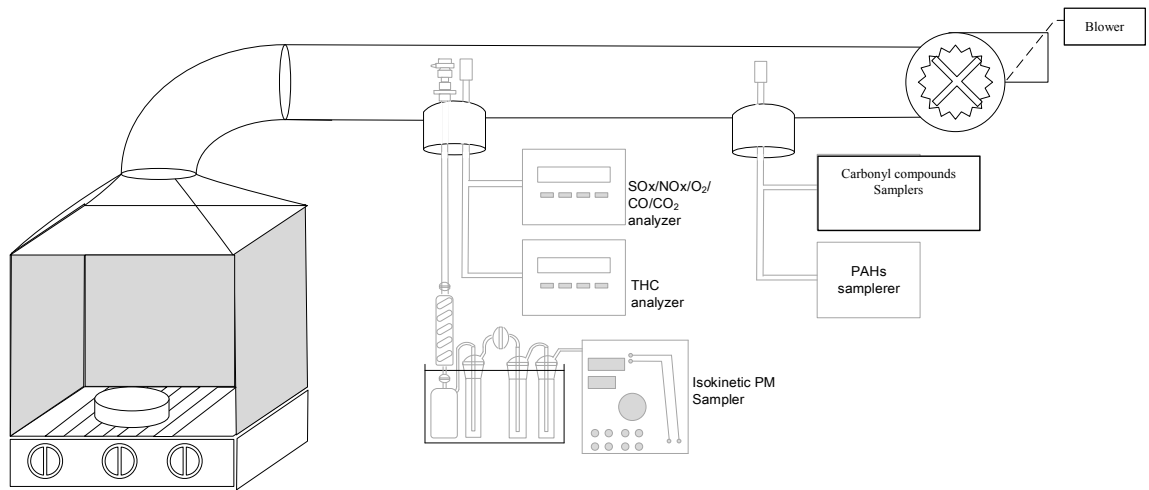


Figure S1. Sampling system of carbonyl compounds in the kitchen classroom

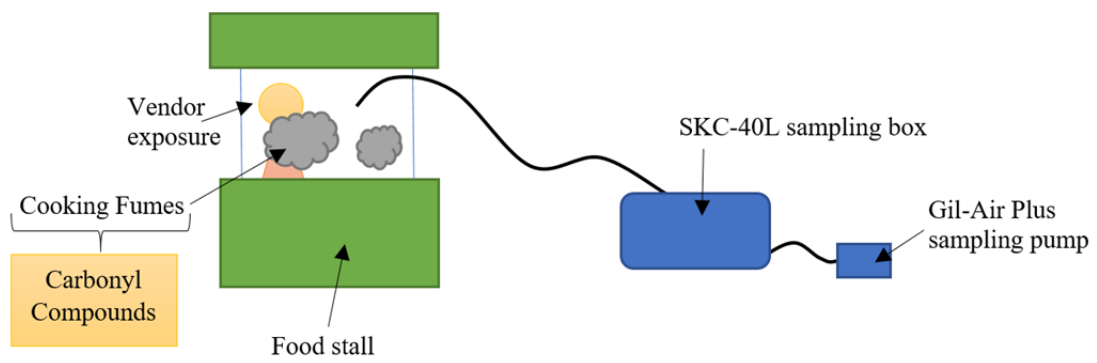


Figure S2. Sampling of carbonyl compounds collected from the food vendor stalls in the night market.