(a) CO₂ processing

1. Start conditions
   1a. Vehicle distance: Enough distance to previous vehicle?
   1b. CO₂ emission valid?
   1c. Search for emission gradient (peak) → Peak found?
   1d. Separability: Peak separable from previous vehicle?

2. BG determination
   Interference from previous vehicle?
   - Min(movavg(conc before peak))
   - Mean(min before peak, general BG)

3. Emission integration
   Peak integration
   - Stop 1: Maximum allowed event duration reached
   - Stop 2: Conc below BG
   - Stop 3: Next vehicle passed & conc gradient rising
   - Stop 4: tstop pollutant - tstop CO₂ > Δtstop max
   - Stop 5: Integration interval pollutant + Δt > Integration interval CO₂

4. CO₂ emission valid

(b) Pollutant processing

1. Start conditions
   1e. Pollutant vs CO₂: tstart pollutant - tstart CO₂ > Δtstart max?

2. BG determination
   Interference from previous vehicle?
   - Min(movavg(conc before peak))
   - Mean(min before peak, general BG)

3. Emission integration
   Pollutant vs CO₂
   - Duration CO₂: Integration interval > min duration?
   - Duration pollutant: Integration interval pollutant > min duration pollutant?
   - Plume strength: Integrated CO₂ area > min plume strength?

4. Low emitter processing
   - BG determination
   - Integration over the same time period as for CO₂

Finish