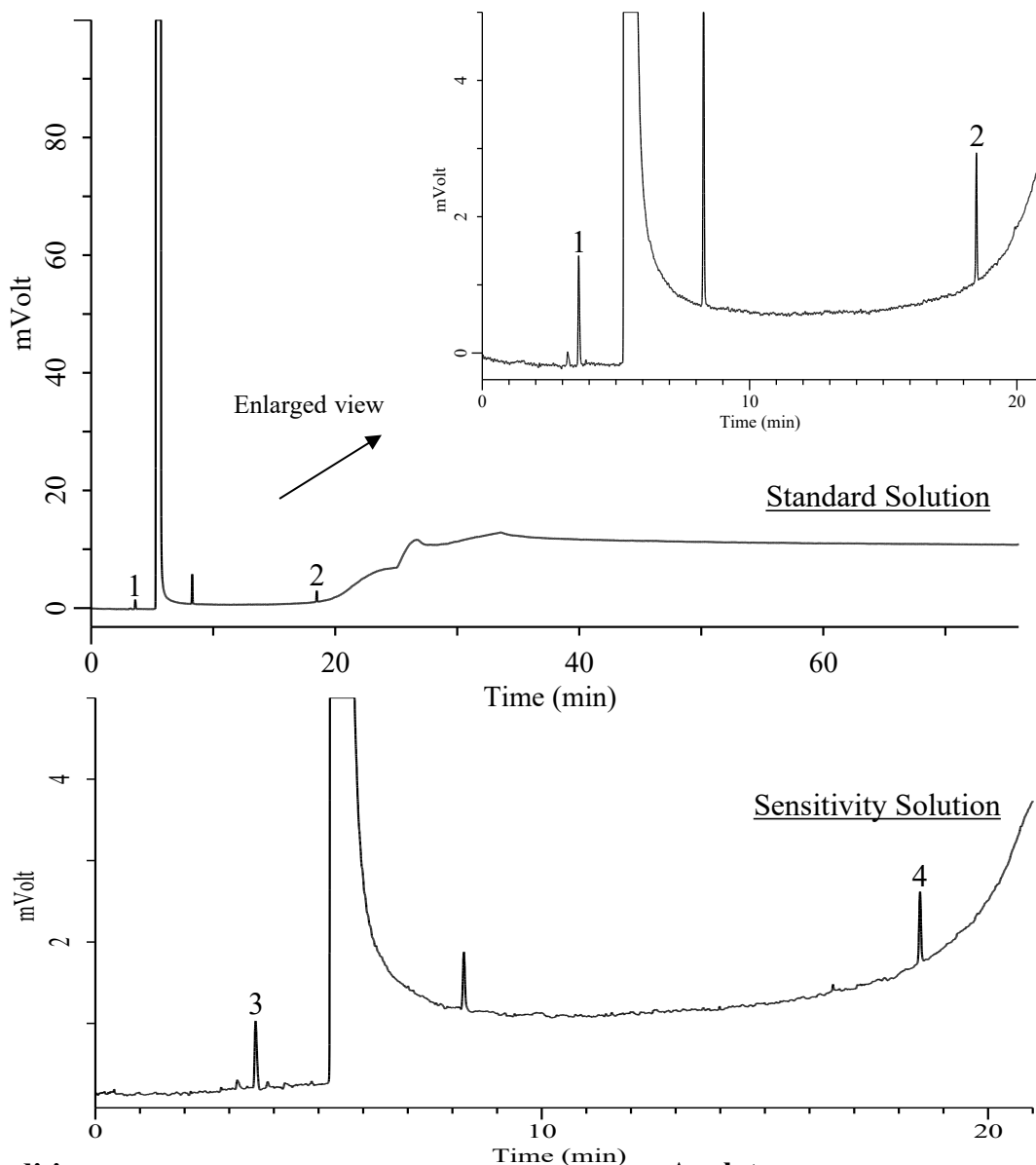


Analysis of Tetrahydrofuran and 1,4-butanediol

(Under the Condition of Draft for USP, Busulfan Injection)



Conditions

System : GC-4000 Plus /FID
Column : InertCap Pure-WAX (GL Sciences Inc.)
 0.53 mm I.D. x 30 m df= 1.0 μm
Col. Cat. No. : 1010-68445
Col. Temp. : 50 °C (2 min) - 10 °C/min - 240 °C (55 min)
Carrier Gas : N₂, 17.6 kPa (25 min) – 11.1 kPa/min –
 112.6 kPa (43 min)
Injection : Split 1 : 5
 200 °C
Detection : FID Auto Range
 250 °C
Sample : Standard
Sample Size : 2 μL

Analyte

1. Tetrahydrofuran
 2. 1,4-butanediol 2.4 μg/mL each

Analyte

3. Tetrahydrofuran
 4. 1,4-butanediol 1.2 μg/mL each

RSD of the
 peak area of 1 (%) (n=6) : 2.59 (≦ 10.0)
 peak area of 2 (%) (n=6) : 0.90 (≦ 5.0)

Signal-to-noise ratio
 (3) : 12.9 (≧ 10)
 (4) : 22.2 (≧ 10)