

**GC INSTRUMENT CONDITIONS**

FS#: \_\_\_\_\_

**GCs AVAILABLE:**

Perkin-Elmer AutoSystem \_\_\_\_\_ #1 \_\_\_\_\_ #2

Perkin-Elmer AutoSystem XL \_\_\_\_\_ #1 \_\_\_\_\_ #2

Agilent 6890N \_\_\_\_\_

**CAPILLARY COLUMNS AVAILABLE:**

\_\_\_\_\_ Fused silica, cross-linked 100% Dimethylpolysiloxane

\_\_\_\_\_ Fused silica, cross-linked 100% Polyethylene glycol

**ALL COLUMNS:**

INNER DIAMETER: 0.25 Millimeter  
FILM THICKNESS: 0.25 Micrometer  
LENGTH: 15.0 Meters ± 1.0 meter

**GC PARAMETERS:**

FID with Helium carrier gas  
Split Flow = 50 ml/minute ± 5.0 ml/minute

**NONPOLAR:** \_\_\_\_\_

Oven Temperature Initial Value = 60°C hold for 2.0 minutes  
Program Temperature Ramp Rate #1 = 15°C/minute  
Oven Temperature #2 = 100°C hold for 0.5 minutes  
Program Temperature Ramp Rate #2 = 25°C/minute  
Oven Temperature Final Value = 280°C hold for 6.0 minutes [\_\_\_\_\_ 300°C for 11 min.]  
Injector Temperature = 270°C; Detector Temperature = 290°C [\_\_\_\_\_ 325°C]

**POLAR:** \_\_\_\_\_

Oven Temperature Initial Value = 40°C hold for 2.0 minutes  
Program Temperature Ramp Rate = 15°C/minute  
Oven Temperature Final Value = 240°C hold for 6.0 min. [\_\_\_\_\_ 160°C for 0.00 min.]  
Injector Temperature = 235°C; Detector Temperature = 245°C

**PYROLYSIS:** \_\_\_\_\_

Oven Temperature Initial Value = 40°C hold for 2.0 minutes  
Program Temperature Ramp Rate = 20°C/minute  
Oven Temperature Final Value = 280°C hold for 23.0 minutes  
Injector Temperature = 325°C; Detector Temperature = 325°C

**CDS Pyroprobe Coil:**

Ramp = OFF; Interface Temperature = \_\_\_\_\_ °C  
Interval = 20 seconds  
Tube Temperature Calibrated to 700°C  
Pyrolysis Temperature Setting = \_\_\_\_\_ °C