

Methane Detection Limits using SRI 8610C FID GC November 2014

A study was performed to determine if the SRI 8610C GC with FID detector could detect 0.1 ppm methane using a 1ml loop injection.

The chromatogram to the right shows room air with an approximate concentration of 2ppm.

Hydrogen was used as a carrier gas at 10 psi, and the column was a 2 meter MS13X molecular sieve. The column oven was set to 50C isothermal.

This chromatogram shows 0.4ppm. Room air was diluted in hydrogen carrier 5:1.

This last chromatogram shows 0.1ppm methane diluted 20:1 from room air in hydrogen.

