

Michael P. Valoski Chief, Toxic Agents Branch

MSHA

- Gas chromatographs on-site since the 1970's
- Used several different mobile laboratories
- Transported gas chromatographs all over the US
- Modern gas chromatographs better than older models

Measured Gases

- Methane
- Ethane
- Ethylene
- Acetylene
- Hydrogen

- Oxygen
- Nitrogen
- Carbon dioxide
- Carbon monoxide
- Argon

Laboratories

- MSHA
- Illinois
- West Virginia
- Ohio

Data

- Reporting range
- Data below LOQ
- Data below LOD

Comparison

- How close values compare
- Comparison based upon concentration
- Sampling difference
- Holding time for sample

Standard Method

- Gases measured
- Quantifiable range
- Benchtop or Micro
- Detector(s)
- Columns
- Gas standards/calibration
- Carrier gas
- How report gases

Standard Method (cont.)

- Water vapor?
- Sampling container
- Trend vs absolute analysis

Discussion