Agilent Technologies
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PRAXAIR

Certificate of Analysis

NGA Gas Calibration Standard

Agilent Part No: 5184-3536, 5184-3542 **Sample Lot No:** 072902N

Concentrations (±mole%):

Nitrogen	4.9979% (±5%)
Methane	Balance
Ethane	8.9961% (±5%)
Carbon Dioxide	1.4987% (±5%)
Propane	6.0067% (±5%)
Isobutane	3.0004% (±5%)
n-Butane	2.0009% (±5%)
Isopentane	0.4912% (±5%)
n-Pentane	0.4986% (±5%)
n-Hexane	0.0980% (±5%)
Water content	<5 ppm
Other impurities	<1 ppm
BTU value	1257

Traceability:

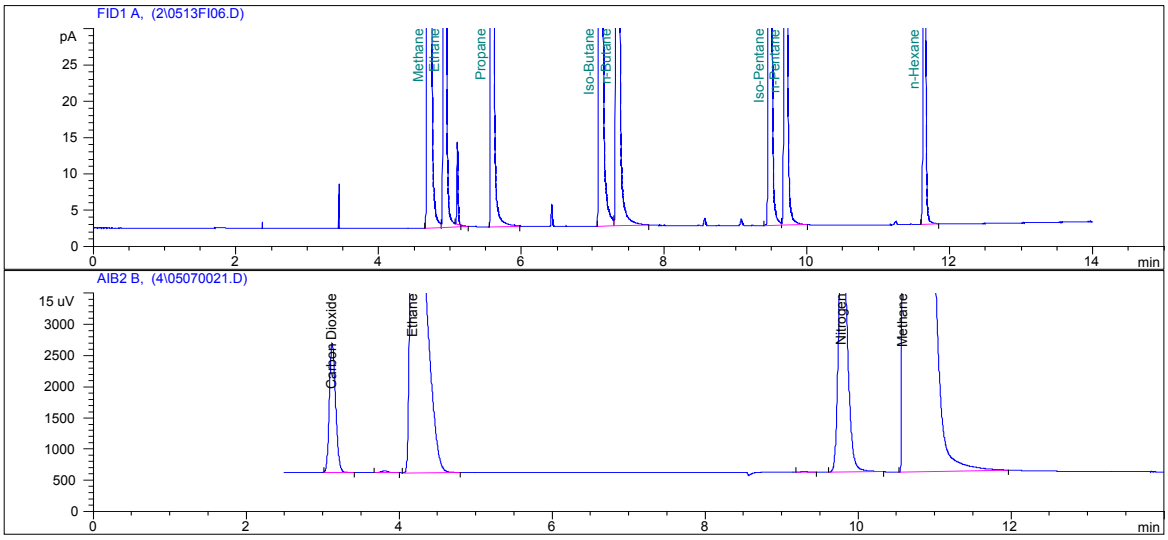
This standard was produced gravimetrically following Specialty Gas Work Instruction #15. Balances used are calibrated per POIS 2.140, traceable to NIST. Concentrations were verified on an Agilent model 6890 gas chromatograph, using a Wasson valve switch, Variable Pressure Control and multiple packed/capillary columns.

Standards Used:

Praxair NGA Primary Standard Source Gas, serial #12853AX

Analytical GC Chromatograms:

Analytical columns: Agilent MS-5A PLOT, U-PLOT
TCD: 1.0 ml loop; He carrier at 35 ml/min; oven temp = 90degC
FID: 0.1 ml loop; He carrier at 30 ml/min; split ratio=25:1; Ramp 75degC for 6 min to 180degC for 3.75 min at 20degC/min



Date of Release: 30 July, 2002
Expiration Date: 16 May, 2004

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