

GAW World Calibration Centre (WCC) for Methane and

Quality Assurance/Science Activity Centre (QA/SAC) in Asia and the South-West Pacific



Methane Reference Gas Intercomparison for Japan from 2012 to 2013 Technical Details on Laboratory Measurements

National Institute for Environmental Studies (NIES)

- 1. Information on contributors
- (1) Contributors: Dr. Toshinobu MACHIDA
- (2) Organization: National Institute for Environmental Studies, Japan
- 2. Information on instrument
- (1) Analytical method: Gas Chromatography (FID)
- (2) Manufacturer: Agilent Technologies
- (3) Model: HP5890
- 3. Information on sampling
- (1) Sampling volume: 10 ml
- (2) Carrier gas: Nitrogen
- (3) Flow rate: 40 ml/min
- (4) Temperature of the oven: 80°C
- 4. Information on the main column
- (1) Diameter: 1/8 inch
- (2) Length: 2 m
- (3) Material: Stainless steel
- 5. Information on column packings
- (1) Trade name: Molecular Sieve 5A
- (2) Mesh: 60/80
- 6. Information on standard gas
- (1) Number of standard gases: 7
- (2) Concentration of standard gases: 512, 1261, 1512, 1762, 2014, 2512 and 3012 ppb
- (3) Scale: NIES94 Scale
- 7. Other information (references, papers, literatures, etc.)