



ASAS II

Automated Standard Addition System

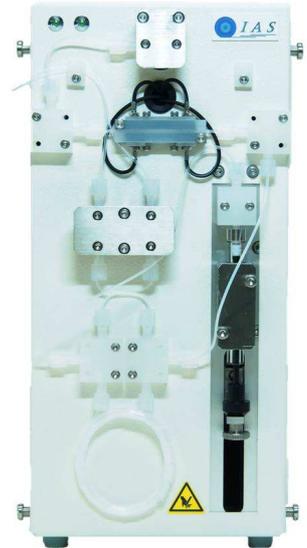


IAS Inc.

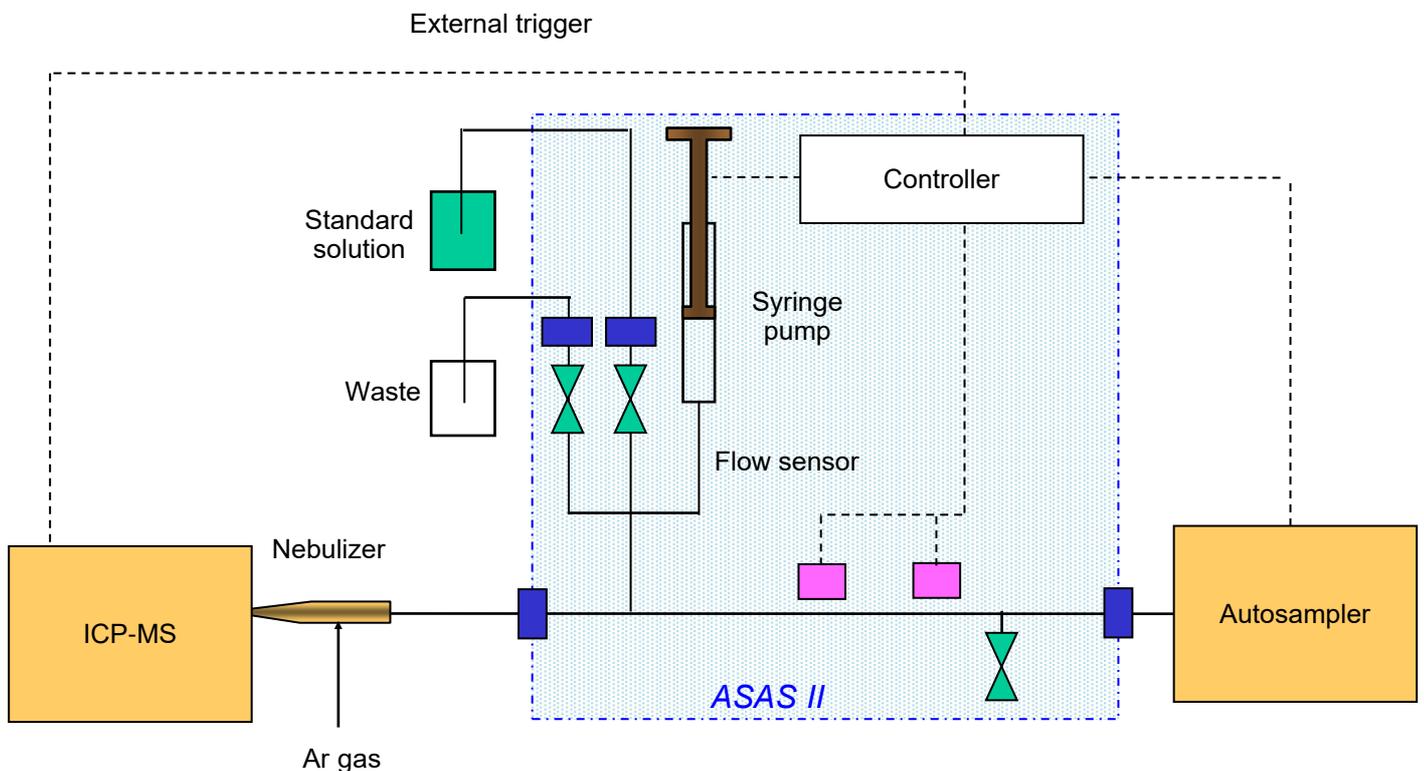
ASAS II sets an operator free from troublesome preparation of standard solution and improves the productivity and precision of your ICP analysis.

Features

- ◆ Calibration standard solution is prepared automatically.
- ◆ Optical flow sensors that don't contact sample solution measure the sample uptake rate automatically.
- ◆ High precision syringe pump (Glass: 1,000 μL) and the patented configuration of no valve in the standard addition line allows the addition of standard solution into sample line at $\mu\text{L}/\text{min}$ level automatically. A typical output flow is around 1-10 $\mu\text{L}/\text{min}$.
- ◆ Self aspiration of sample can be used.
- ◆ Metal free fluoropolymers are used for all wetted surface.
- ◆ Auto refilling of standard solution when solution in the syringe becomes the empty level.

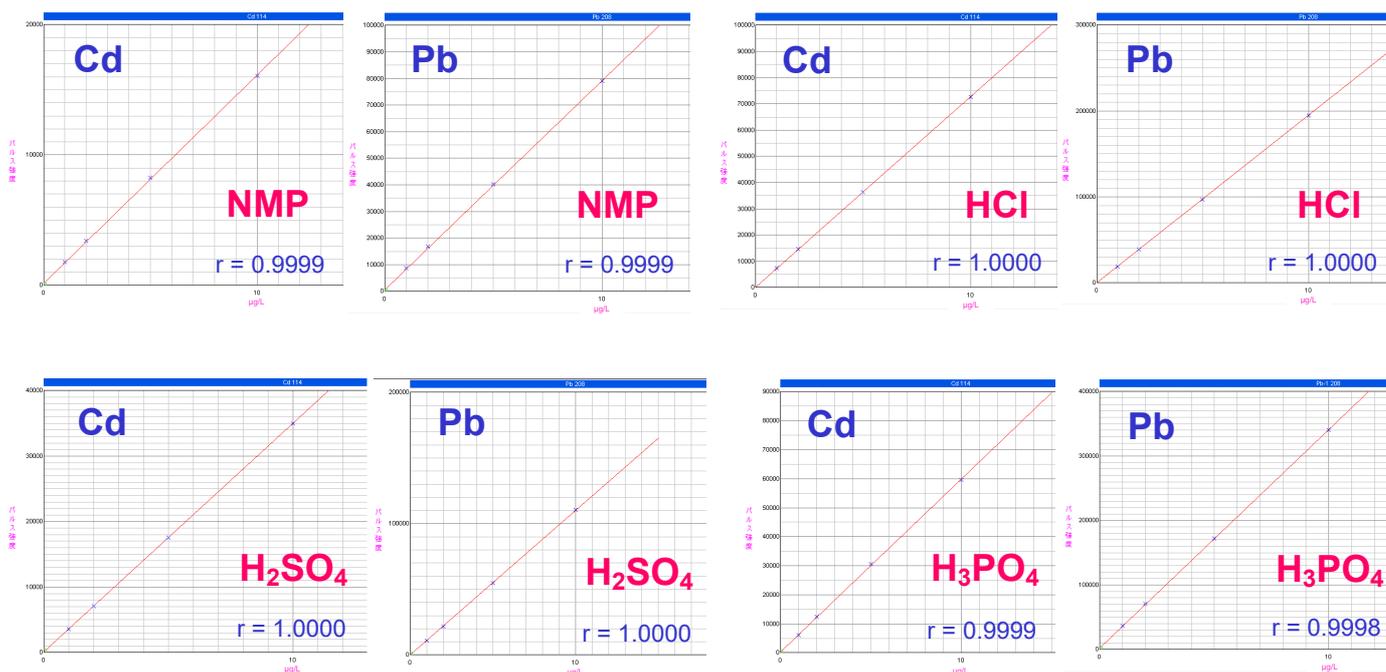


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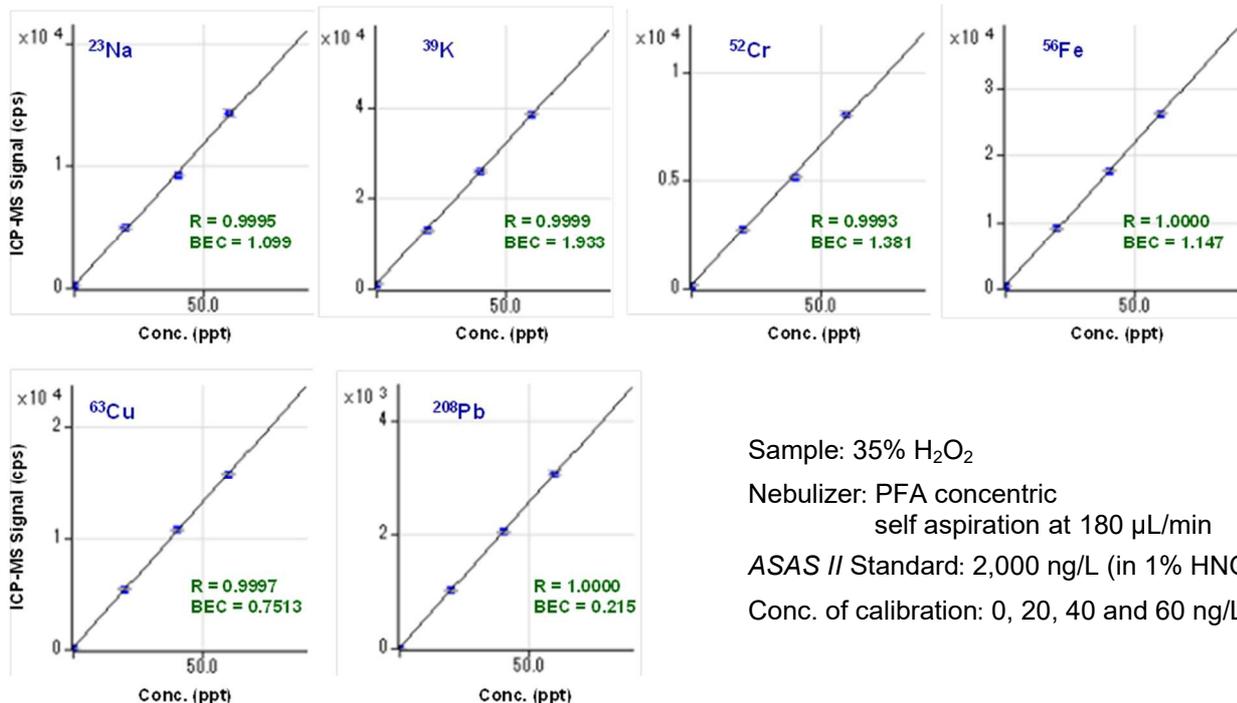
Standard Addition Calibration Curves Using Autosampler

Different chemical samples were set on an autosampler and analyzed by the method of standard addition.



Sample: 10% NMP, 10% HCl, 5% H₂SO₄, 1% H₃PO₄
 Nebulizer: PFA concentric, self aspiration at 200 µL/min
 ASAS II Standard: 0.2 mg/L (in 1% HNO₃)
 Conc. of calibration: 1, 2, 5 and 10 µg/L

Standard Addition Calibration Curves of 35% H₂O₂



Sample: 35% H₂O₂
 Nebulizer: PFA concentric self aspiration at 180 µL/min
 ASAS II Standard: 2,000 ng/L (in 1% HNO₃)
 Conc. of calibration: 0, 20, 40 and 60 ng/L

