



A follow up to “Speciation Made Simple” Webinar. Advanced Speciation Software Capabilities

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Overview of Speciation Presentation

1. Quick review of Speciation Made Simple Webinar Communications, Plumbing, and Chromatography Module setup (Software) within Agilent ICP-MS MassHunter and Chemistry

hyperlink: [Speciation Made Simple](#)

2. Advanced capabilities: using Internal Standards

- ✓ Why? FDA, Drift
- ✓ Hardware (Infinity I vs Infinity II)
- ✓ How to achieve in Plumbing and Software

3. Agilent Peak Integrators within Speciation Module:

- ✓ Agile2 vs the General Integrator – some parameters for both

4. MDL (S/N) Calculations with the Speciation Module

Presentation Overview Continued

5. Compound Independent Calibration (CIC)
 - ✓ What if you didn't have all those unique organometallic compounds that you want to quantitate?
6. Manual Integration of peaks
7. Adding Unknown compound peaks
8. Summing Peaks for Total *Inorganic* Arsenic
 - ✓ For USP 232
9. Speciation Applications/Resources

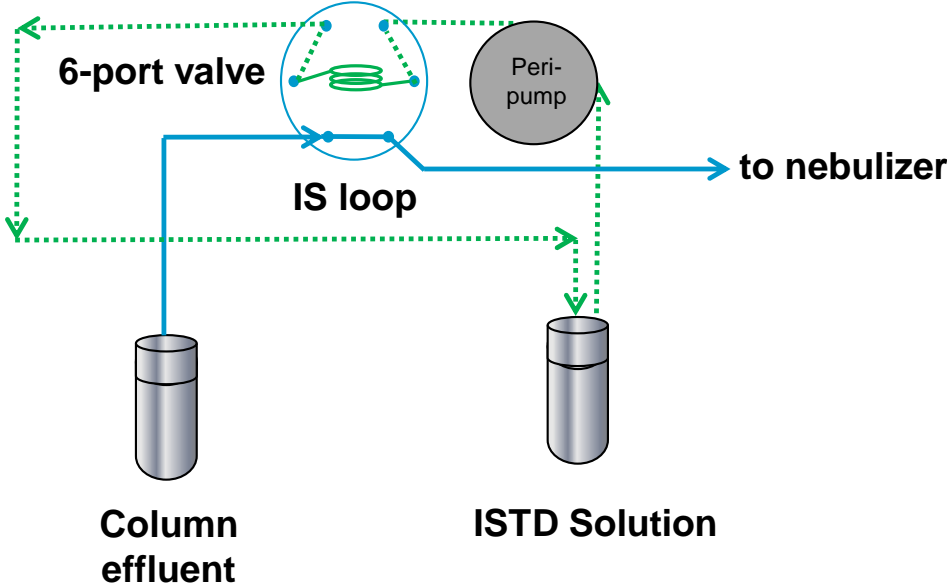
Review of Speciation Made Simple Webinar

1. Speciation on Agilent ICP-MSs. A simple interfacing / coupling to LCs/ICs
 - ✓ Electrical Triggering Communications/hardware
 - ✓ Plumbing
2. Speciation Chemistry can be made simple
 - ✓ Start w/ Basics – IX Chemistry with Anions
3. Ease of use Chromatography Module (Software) within Agilent ICP-MS MassHunter Software

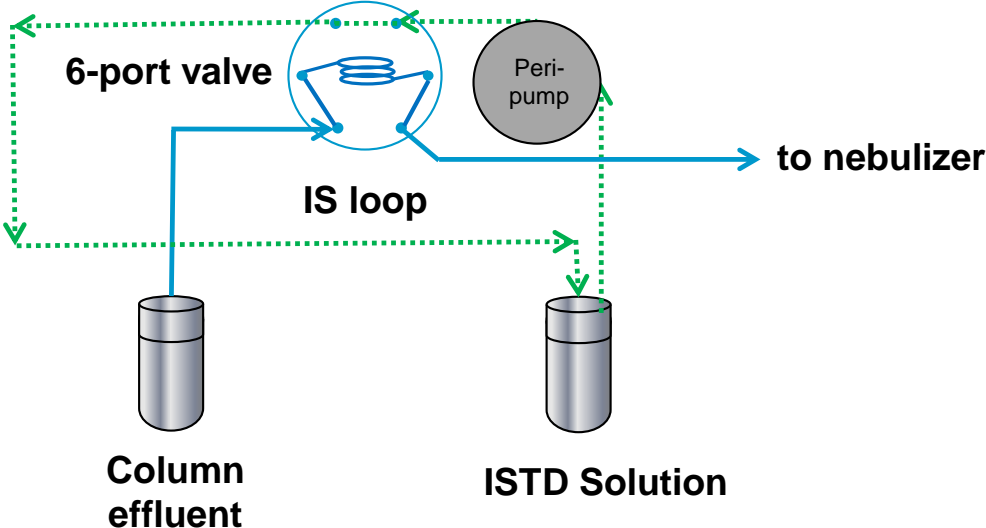
6 Port, 2 Position Switching Valve in Column

Compartment for Introducing Int. Std Post column

Load IS Loop



Inject IS



Speciation Resources

1. Speciation Applications at Agilent

<http://www.agilent.com/search/?No=0&Nrpp=20&Ntt=speciation>

2. Agilent Speciation Handbook, 2nd Edition

http://www.agilent.com/cs/library/applications/5990-9473EN_icpmsSpeciationHB_lr.pdf

3. The first Speciation Webinar

<http://www.agilent.com/en-us/promotions/speciation2>

4. Agilent ICP-MS Journal

<https://www.agilent.com/en-us/newsletters/icpmsjournal>

5. Agilent Speciation Handbook, 1st Edition

http://www.team-cag.com/support/theory/icp/hyph_icp_ms.pdf

6. Columns and Supplies

http://www.agilent.com/cs/library/brochures/5991-4269EN_LR.pdf

Additional Speciation Resources

1. Speciation Applications
Arsenic Speciation Handbook
G3154-90011

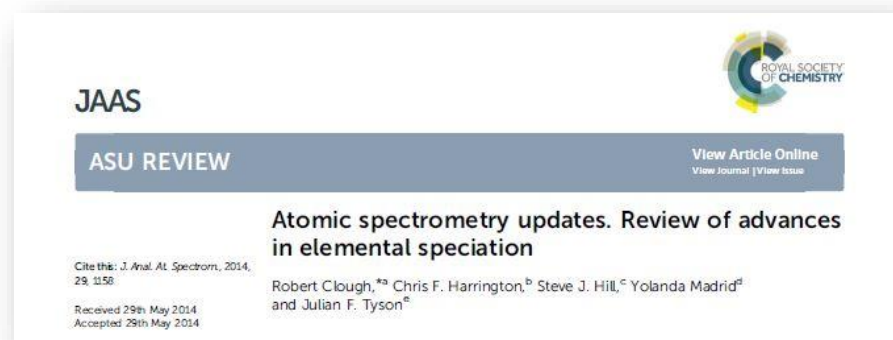
2. JAAS Annual Speciation Reviews

<http://pubs.rsc.org/en/journals/journalissues/ja#!recentarticles&adv>

3. Center for Metallomics
<https://plasmachem.weebly.com/metallomics.html>

4. EVISA (European Virtual Institute for Speciation Analysis)

See more info at the EVISA homepage: www.speciation.net



Questions?



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