

# Thermo Fisher SCIENTIFIC

# **Introducing AppsLab Library**

Methods, Workflows and More

# Agenda

- Introduction
- AppsLab Library Overview
- From Web to Lab One-click workflow concept
- Interact and Share
- Summary

# Typical Questions in Method Development

How can I make my method more environmentally friendly?

How can I develop a new method to separate X and Y?

I could do this separation using an IC. Are there other ways to achieve this?

How can I make my method faster?



How can I make my method more cost - efficient?



#### Situation / Solution

#### Situation:

- Increasing need for state-of-the-art, faster, more efficient resolution of analytical separation challenges
- Numerous websites with column information, but very few providing complete application data and methods
- Method transfer from the web to the laboratory typically requires adaptations.
- Thermo Fisher Scientific publishes dozens of application notes per week, resulting in 1000's every year
- Application notes contain a lot of valuable information for method development

#### **Problem:**

No central searchable online repository for application material

#### Solution:

On-line application search engine with ready-to-run analytical methods:
Thermo Scientific™ AppsLab Library of Analytical Applications



# AppsLab Library...



- ... is an online search engine for Thermo Scientific applications
- ... provides comprehensive application information and ready-to-run analytical methods
- ... is a central repository for Thermo Scientific chromatography and MS application information



# AppsLab Library Overview



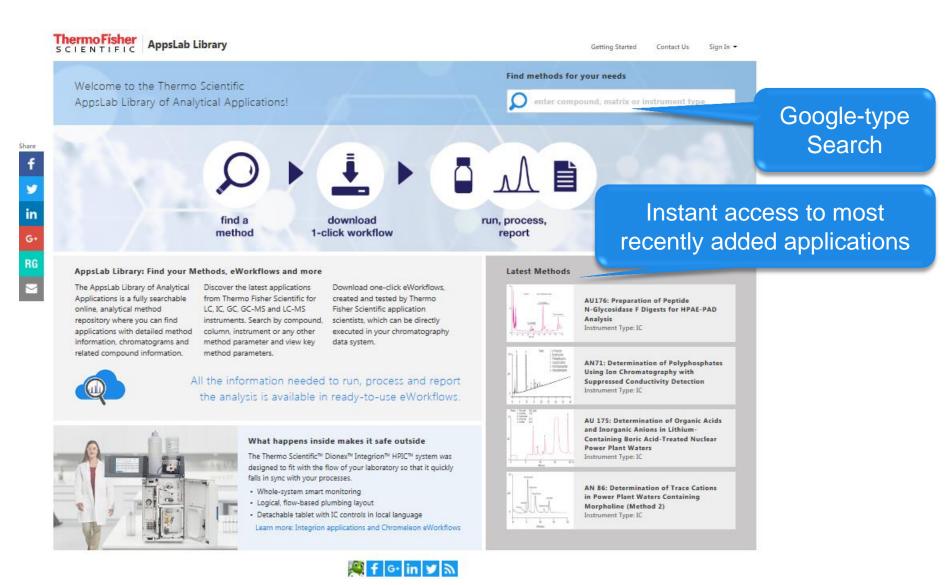


# **AppsLab Library**

methods, workflows and more

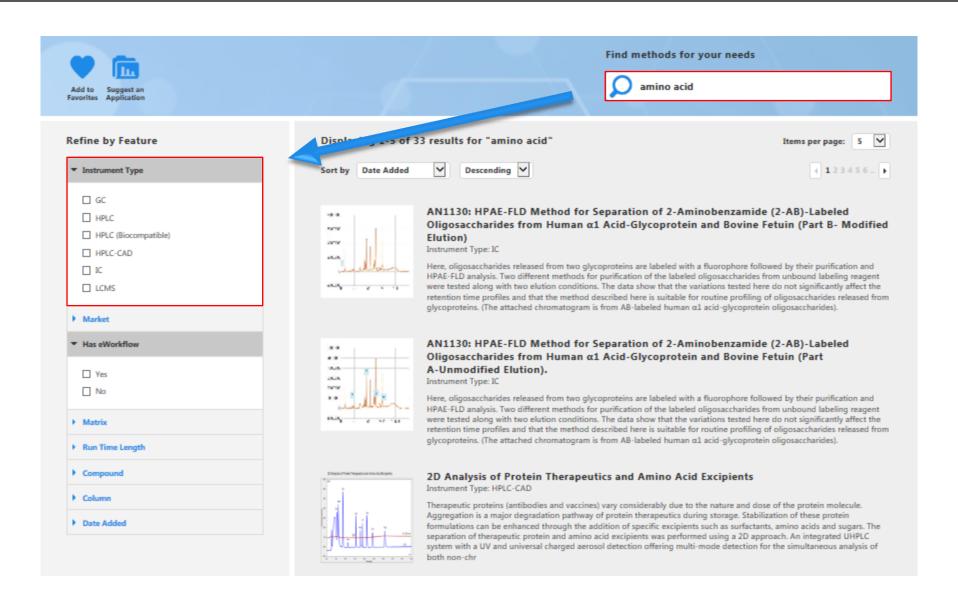


# AppsLab Library Entry Page – Google Type Search

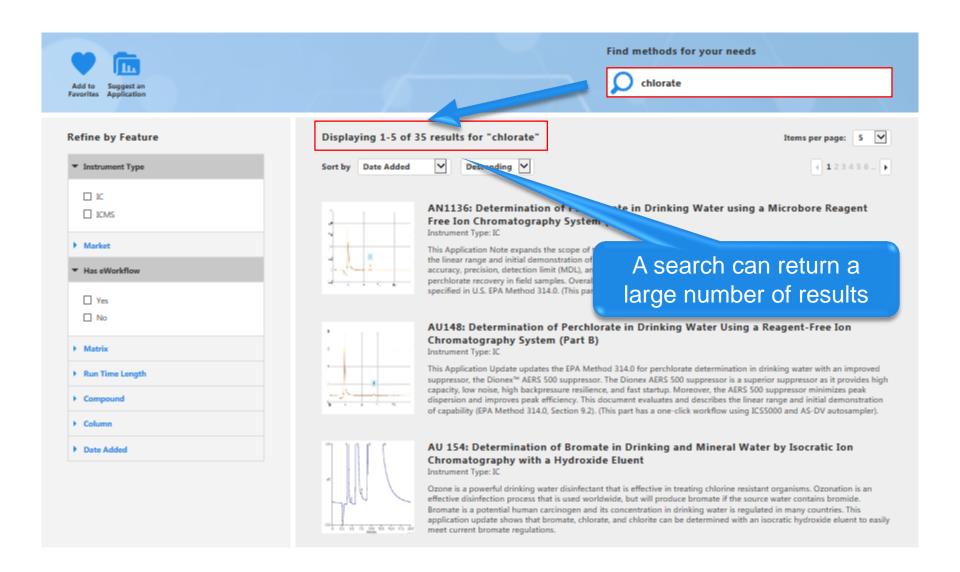




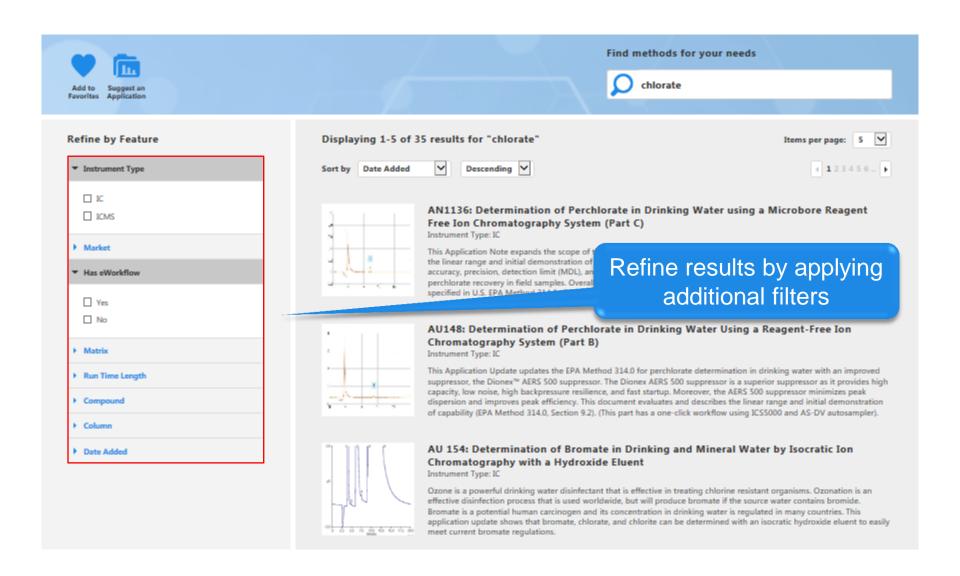
#### Cross-Technique Search Results



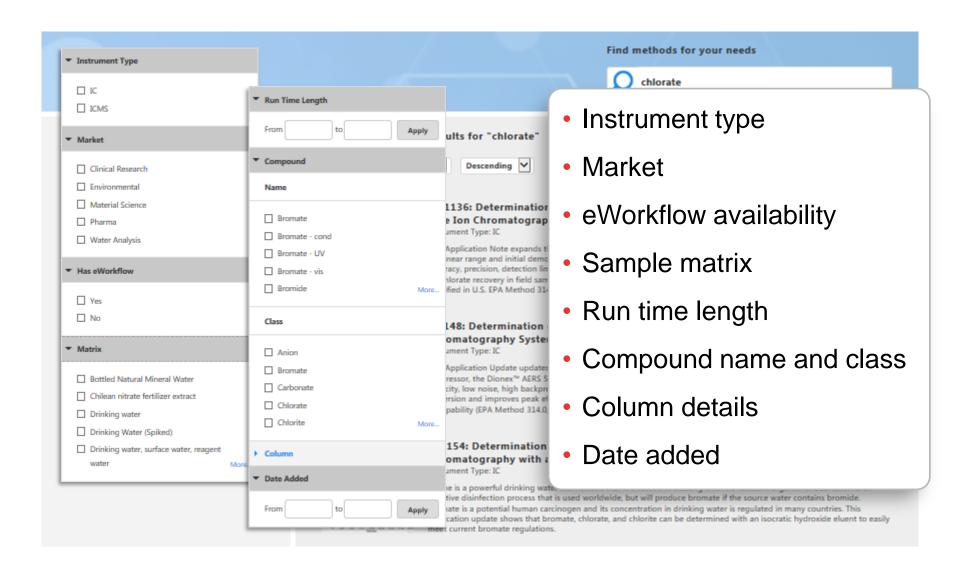


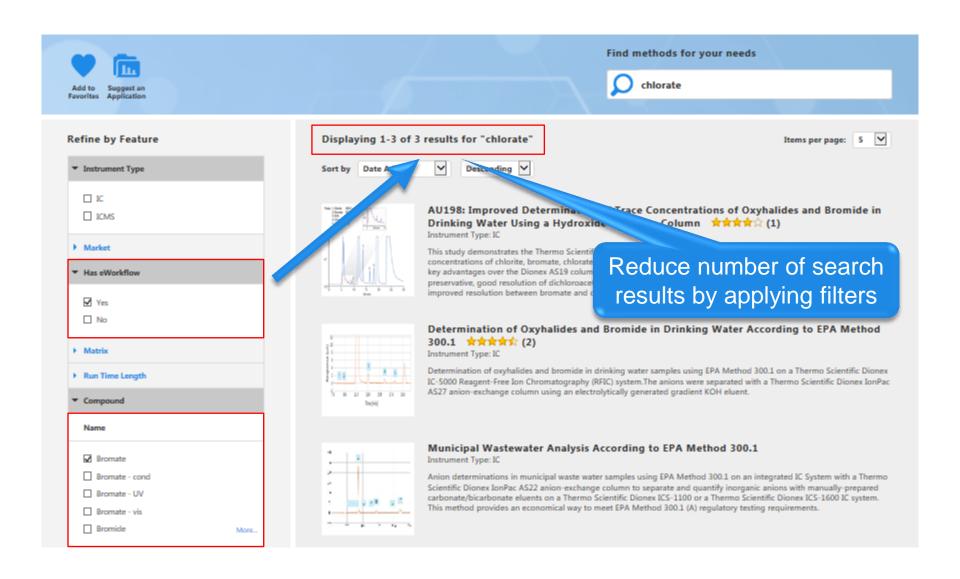




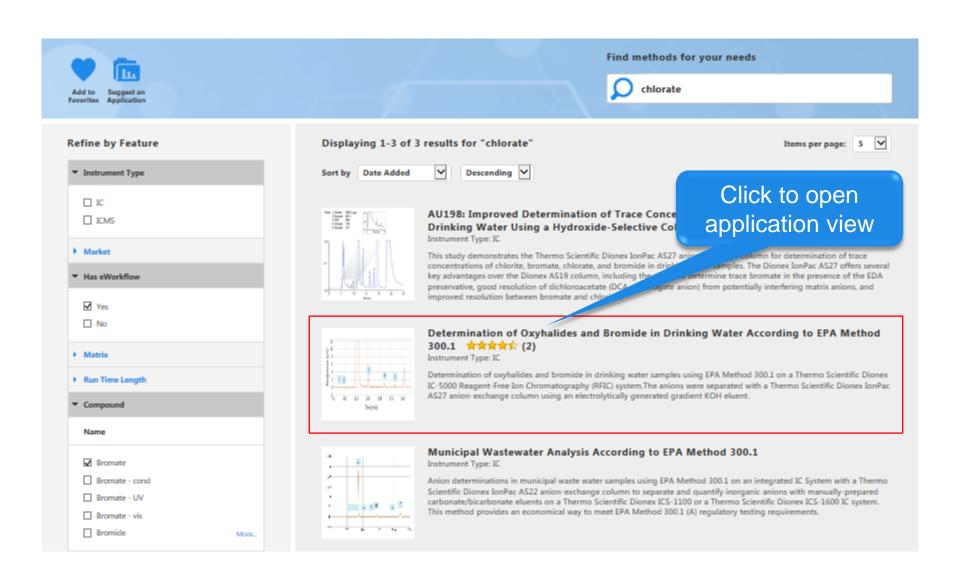




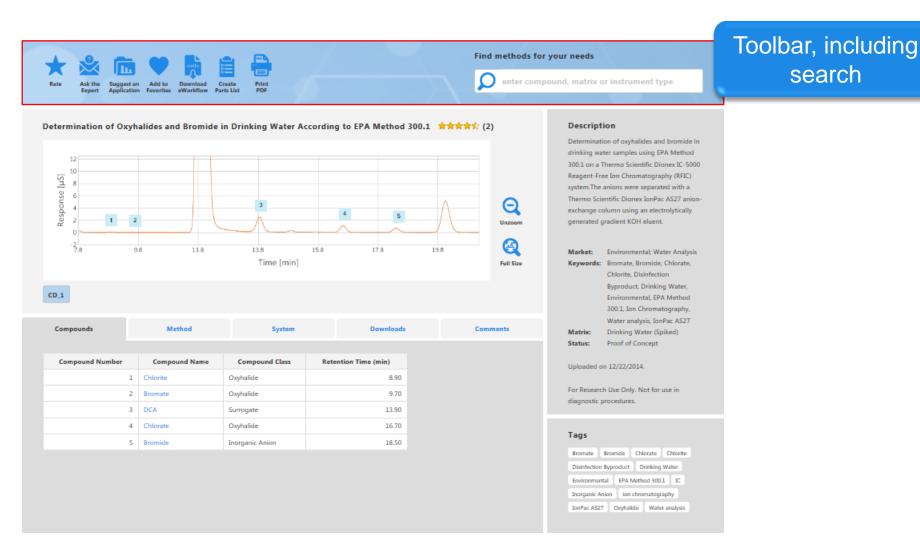




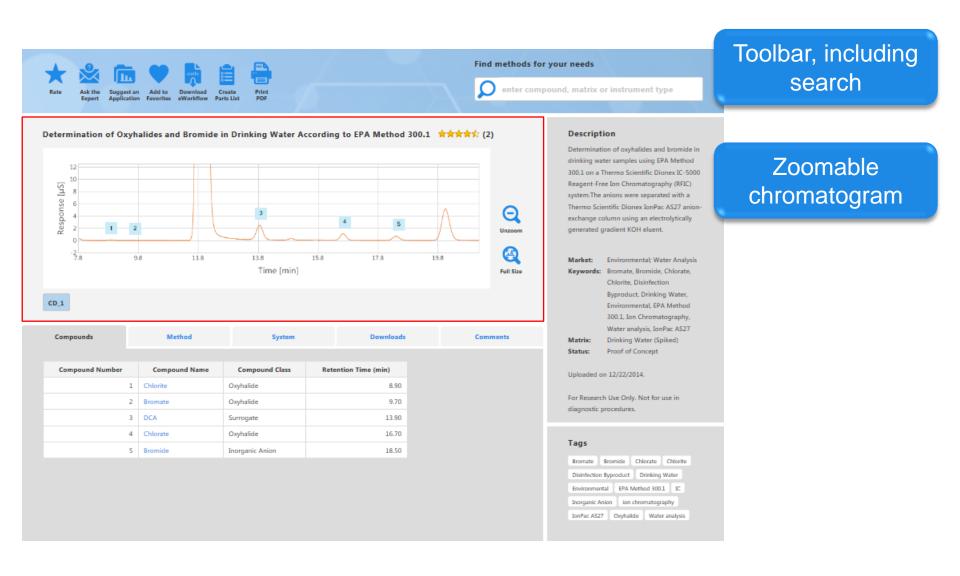




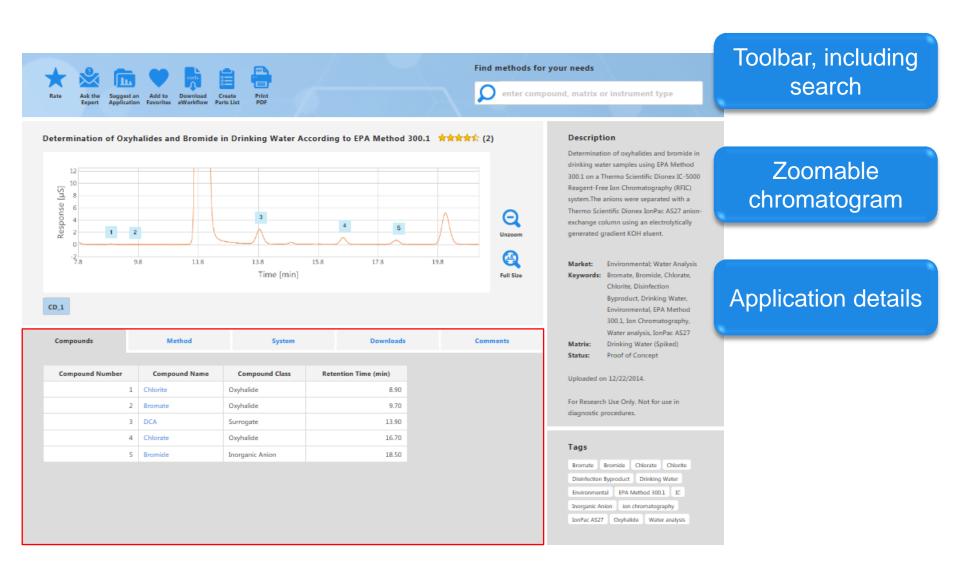




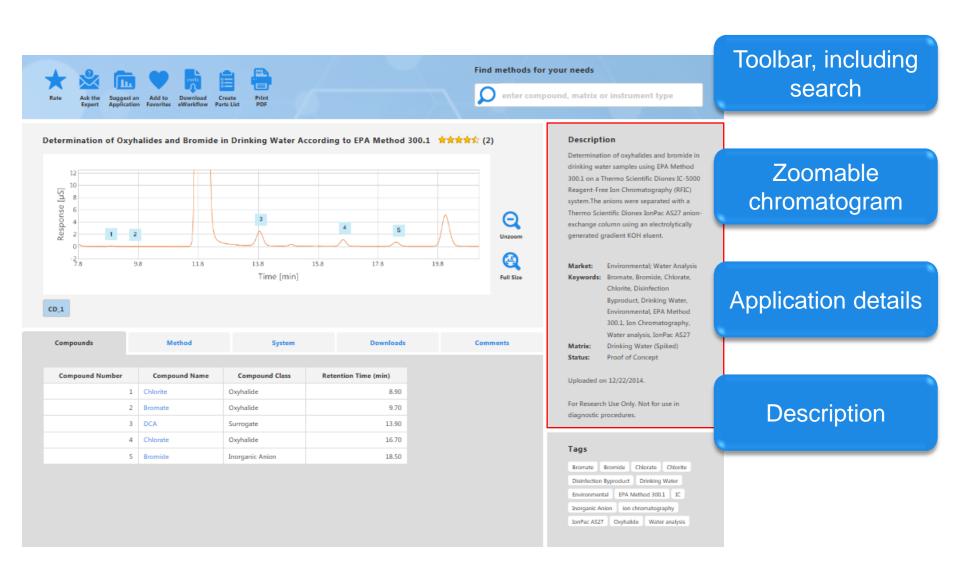




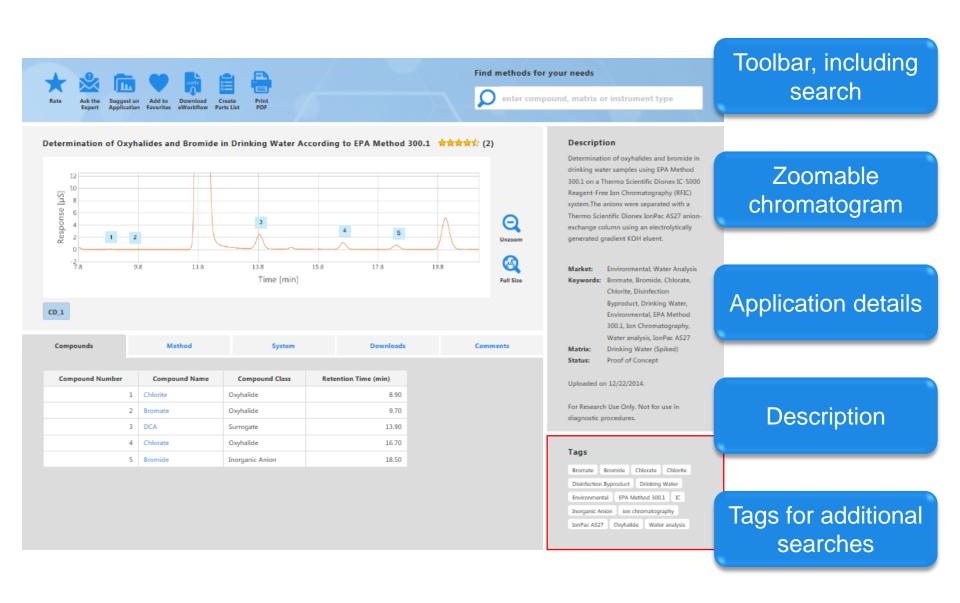






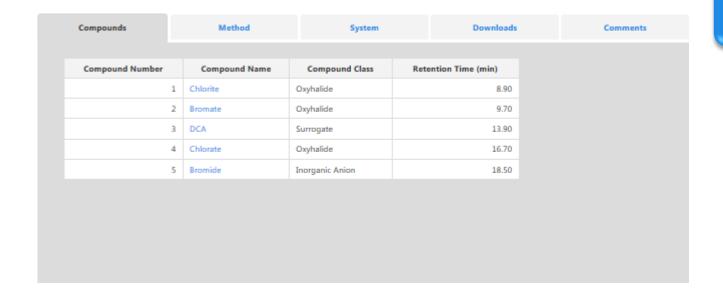








# Application Details - Compounds

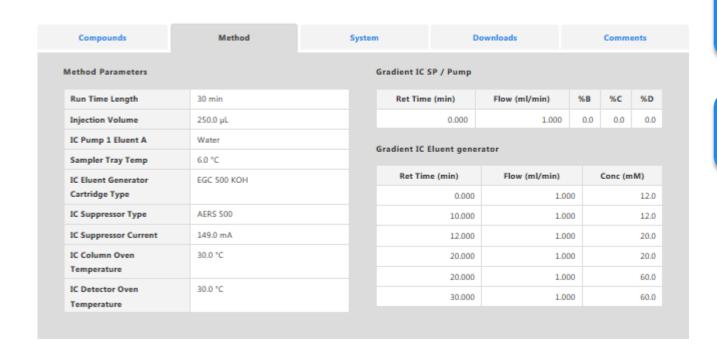


**Compound** information

List of all compounds, including the compound class and retention time



#### **Application Details - Method**



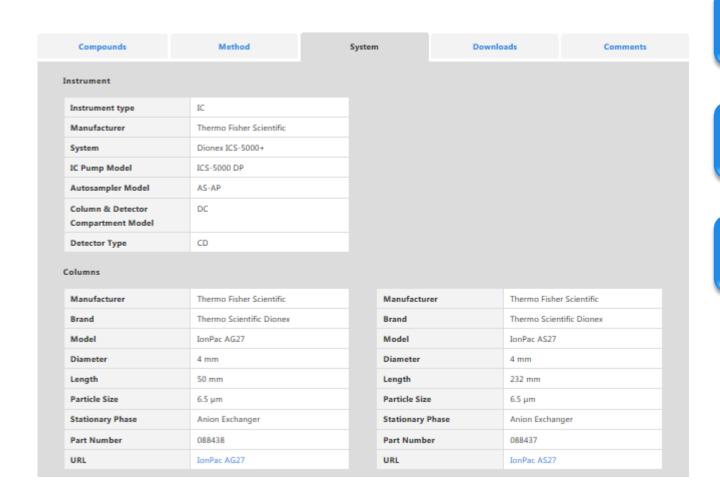
**Compound** information

Method details

Detailed overview of method parameters



# Application Details - System



**Compound** information

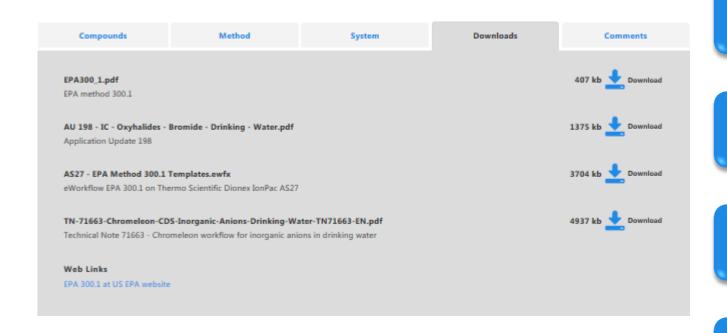
Method details

Instruments and consumables

Details for all instruments, columns and consumables



# Application Details - Downloads



Compound information

Method details

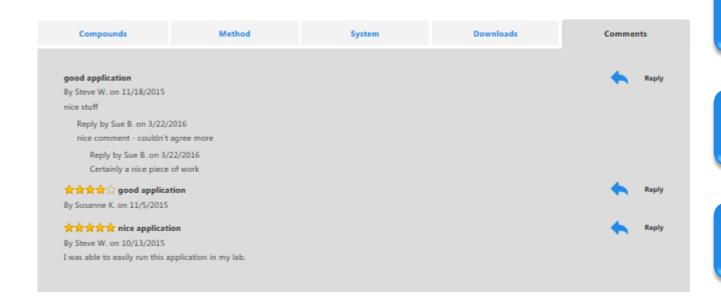
Instruments and consumables

Downloadable files

List of all downloadable files and web links



# Application Details - Comments



**Compound** information

Method details

Instruments and consumables

Downloadable files

Comments and ratings

User comments and rating, including replies



# From Web to Lab - One-Click Workflow Concept





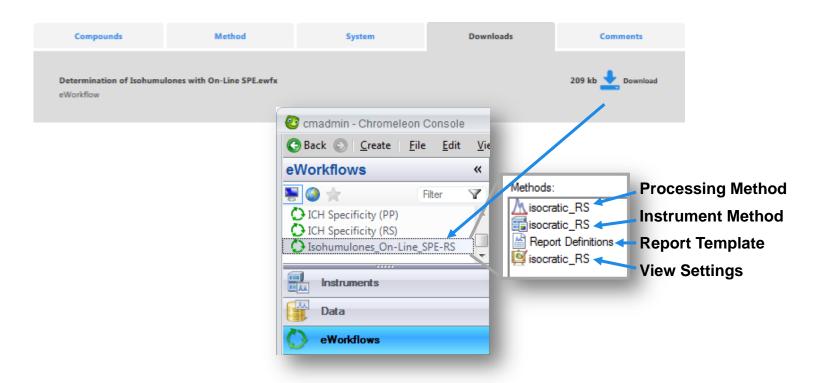
# AppsLab Library

methods, workflows and more



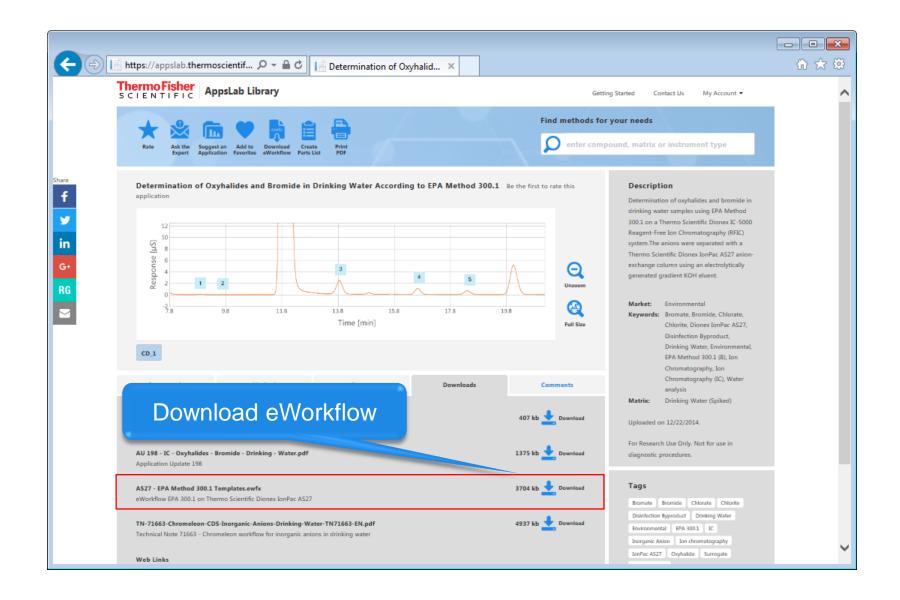
# From Web to Lab - One-Click Workflow Concept

- Direct download of an eWorkflow containing instrument parameters, processing method, report template and sequence setup
- Import directly into Thermo Scientific<sup>™</sup> Dionex<sup>™</sup> Chromeleon<sup>™</sup> Chromatography Data System software → Ready to run



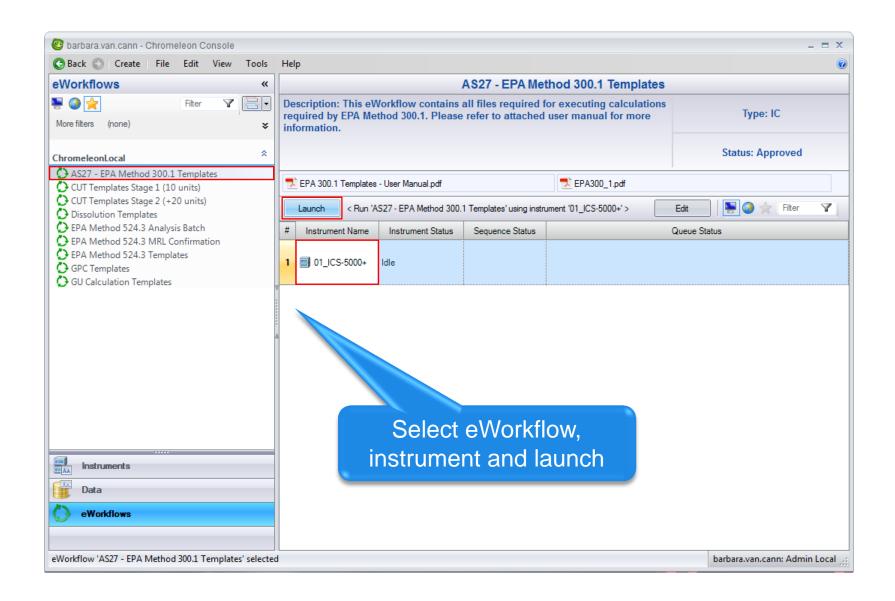


#### From Web to Lab – Find Application and Download eWorkflow



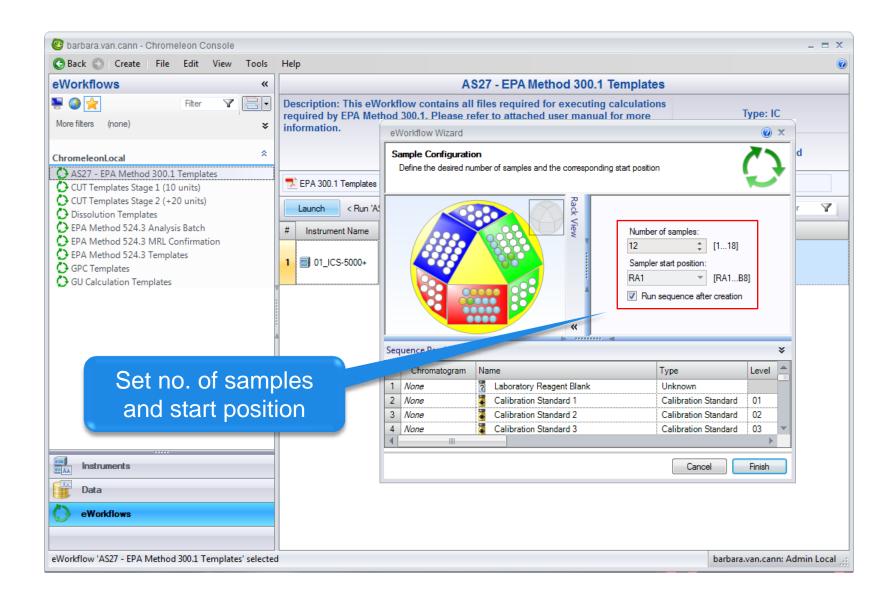


#### From Web to Lab – Import eWorkflow and Start Run



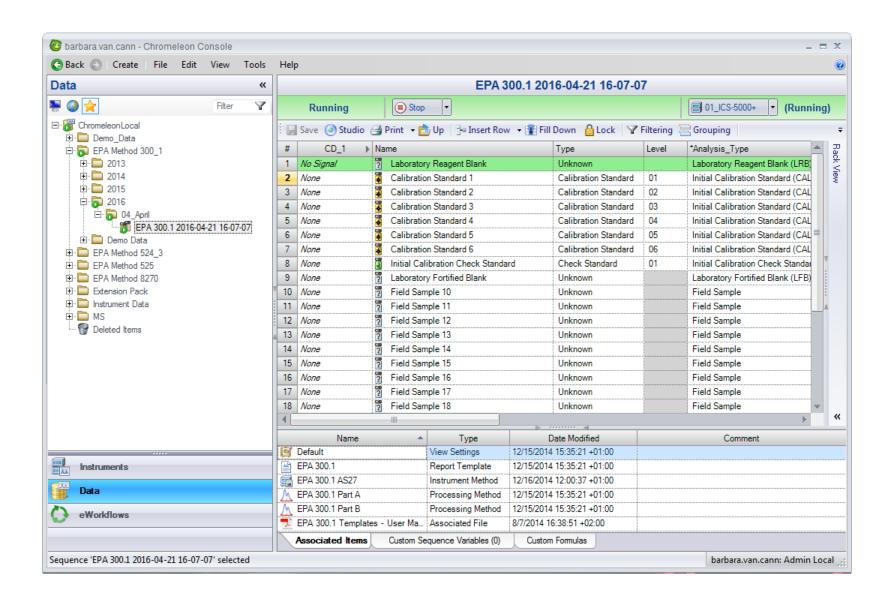


#### From Web to Lab – Import eWorkflow and Start Run



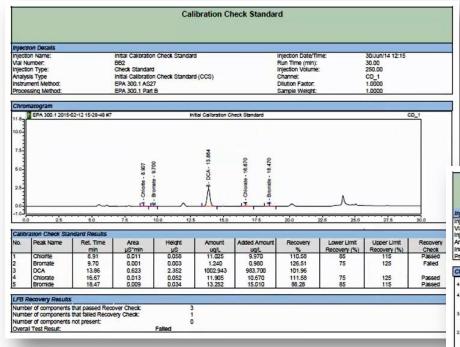


#### From Web to Lab – Run Analysis

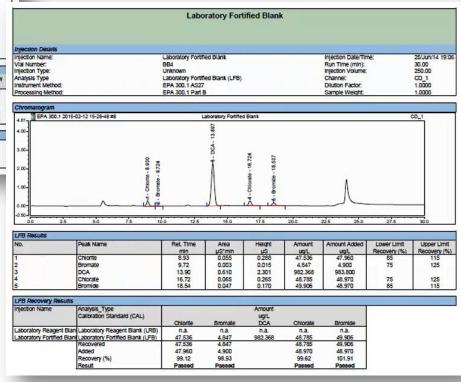




# From Web to Lab – Report Results



After sequence completion a full report, including calculations and checks, is created.



#### Interact and Share

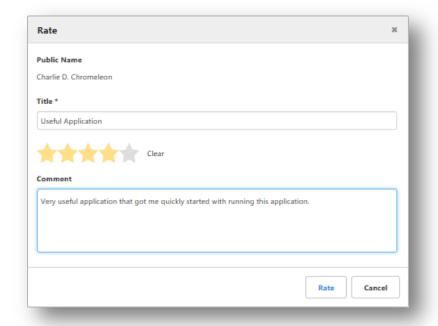




# AppsLab Library

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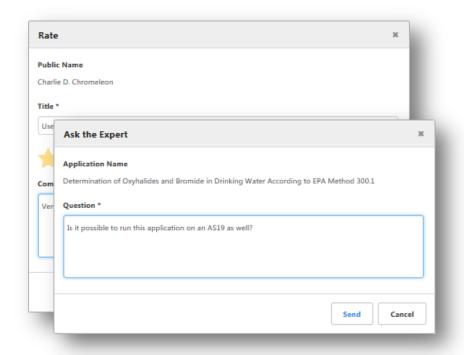
# Interact with experts



- Rate and comment
  - Viewable for other users



# Interact with experts



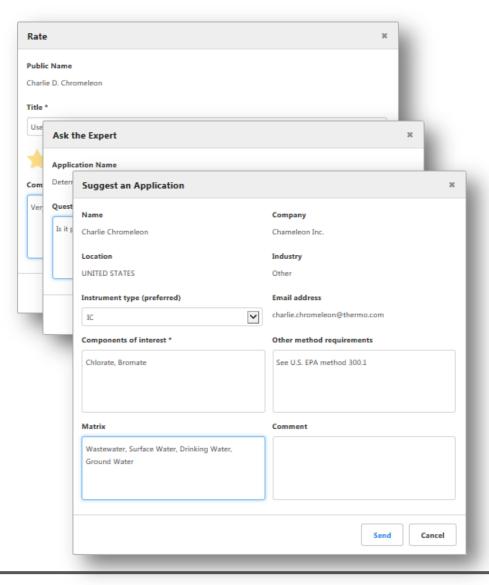
- Rate and comment
  - Viewable for other users



- Ask the expert
  - Connect directly with application experts for additional information



# Interact with experts



- Rate and comment
  - Viewable for other users



- Ask the expert
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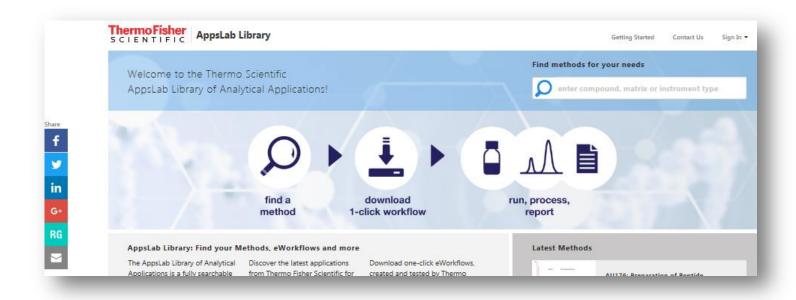
- Suggest an application
  - Provide suggestions for future applications





#### Share

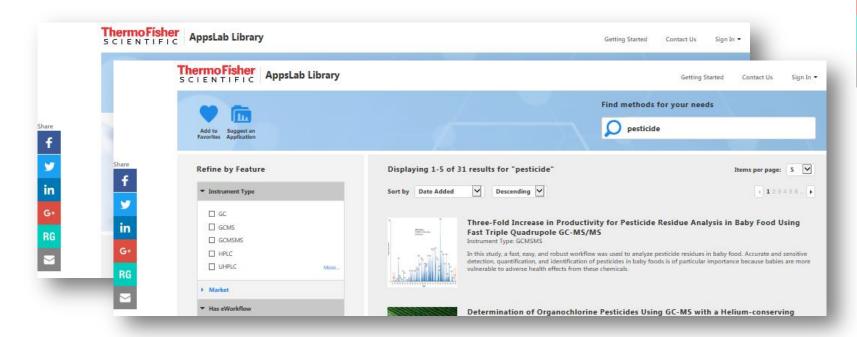
- Share via email or social media
  - AppsLab Library





#### Share

- Share via email or social media
  - AppsLab Library
  - Searches





Share



#### Share

Share Share via email or social media AppsLab Library Searches in 154 Individual applications G٠ RG Thermo Fisher **AppsLab Library** Getting Started Contact Us Sign In • ThermoFisher SCIENTIFIC **AppsLab Library** Sign In • Getting Started Contact Us Find methods for your needs Thermo Fisher AppsLab Library Getting Started Sign In 🕶 Contact Us Find methods for your needs Analysis of total organic carbon (TOC) by GC-MS Be the first to rate this application Description In this work the suitability and selective performance of the Thermo Scientific TraceGOLD TG-5SilMS for the analysis of total organic carbon was demonstrated. TOC in 60 estimation or residual pesticides and other G٠ carbonaceous material. It is especially useful when coupled to mass selective detection as it allows identification and quantification of RG specific contaminating materials. Note the retention times in the component table



match the component number and are not

the actual retention time.

# Summary





# **AppsLab Library**

methods, workflows and more

# Summary

- AppsLab Library is the chromatographer's web-portal to Thermo Scientific's comprehensive application expertise to speed up method development and optimization.
- Save significant time by easily recreating applications found in AppsLab Library on your existing hardware and chromatography data system.
- Download one-click workflows including all application parameters from AppsLab Library directly into Chromeleon CDS – Ready to Run

Visit <u>www.thermofisher.com/appslab</u>



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