



# SCIEXUniversity Learning Tools Snapshots

Each course at SCIEXUniversity is a unique experience. Below you will find a few samples of the learning tools you may encounter while taking a course. You will notice some great reference materials that you will be able to keep for years to come.

## Lab Exercise

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### Polarity Switching and Low Resolution Lab Exercise

**Objective:** To become familiar with creating methods using different polarities and low resolution.

**SECTION 1: Low Resolution Experiment**  
 Low resolution experiments are useful for compounds that exhibit low sensitivity but you must check that there is not an increase in background noise as a result.

**1. Modify Tuning Options**  
 You MUST modify the tuning parameters before creating a method.

- Tune and Calibrate** in the Navigation pane on the left.
- Select **Tools > Settings > Tuning Options**.
- Select the **Resolution** tab, and enter **0.1** for the Offset Drop from Unit Resolution for Low Resolution (refer to Figure 1).

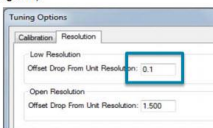


Figure 1: Resolution Setting for Low Resolution

- Click **OK**. The new settings will now be applied to new methods.

**Figure 2: Q1 and Q3 Resolution Settings in Experiments**

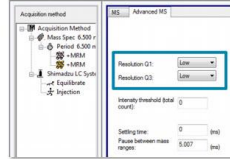
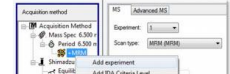


Figure 2: Q1 and Q3 Resolution Settings in Experiments

- Save the method.

**3. Add Additional Experiment to Existing Method**

- Open your existing method in the Acquisition Method Editor.
- Select the experiment in the acquisition browser pane, right-click and select **Add experiment** (refer to Figure 3).



## Consumable Part Numbers

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### Required Consumables for Advanced LC-MS Method Development Training Course at Customer Site

At SCIEX, our Success Technology Programs follow the proven spaced learning approach to maximize learning retention. The training process includes a unique blend of self-paced eLearning, instructor led and hands-on training provided at the customer site.

This SCIEXUniversity course provides a variety of instructor led training and hands-on laboratory exercises, and finishes with a Method Development Challenge.

For this training to be successful, the LC-MS system must be installed and configured before the training. You must also provide the following consumables for use during the training.

Description	Part Number	Size
Triazine standard solution	4376887	N/A
Phenomenex Synergi 4 µm Fusion-RP 80Å HPLC Column	4376878	50 mm x 2.0 mm
PEEK tubing	4425163	0.13 x 3000 mm
PEEK Tube Cutter	011281	N/A
Syringe	WC010615	1 mL
Syringe needle	1005819	1 mL
Syringe adapter	1008236	N/A
Fitting PEEK Tee 0.020 in BORE	1006550	N/A
Ultra-pure MS-grade Water	N/A	N/A
MS-grade Methanol (stored in glass bottles)	N/A	N/A
MS-grade Acetonitrile (stored in glass bottles)	N/A	N/A
Formic acid	N/A	N/A

## Lectures Covered

**SCIEX**

Advanced Method Parameters (00:05 / 04:42)

Menu

- Advanced Method Parameters
- Course Overview
- Objectives
- Scheduled MRM Pro Algorithm
  - Basic Scheduled MRM Alg...
  - Scheduled MRM™ Pro Alg...
  - Group
  - Detection Window
  - Dynamic Window Extensi...
  - Primary/Secondary Transl...
  - Dwell Weight
  - Scheduled MRM Pro Algor...
- Enhancements to Scheduled ...
  - Target Time Can Be Cycle ...
  - Target Cycle Time vs Targ...
  - Q1/Q3 Resolution
  - Dynamic Window Extension
  - Trigger and Extension Thr...
- Low Resolution Using Analyst...
  - Setting Up a Low Resoluti...
  - Modify Offset Drop
  - Acquisition Method Creati...
  - Acquisition Method: Adva...
  - Quick Quant Method

**It's Time to See the Future Differently**

**Advanced Method Parameters**

GEN-CST-03-7464-A

## Recommended eLearning

**SCIEX**

Maintenance and Troubleshooting Guide (00:03 / 21:03)

Menu Notes

- SCIEX Triple Quadrupole and
- Guide: Table of Contents
- Navigating This Guide
- System Familiarization
  - MS Data Analysis
  - Ion Source Guided Tour L...
  - Ion Source Guided Tour (s...
  - The ESI & APCI Probes
- Top Ten Operational Issues
  - Top Ten ...
  - Contamination
  - Communication Loss
  - Source Exhaust Failure
  - Roughing Pump Oil
  - Interface Heater
  - Invalid Source ID/Ion Sour...
  - Failure to Perform Compu...
  - Source Heater Failure
  - Probe Arcing
  - Electrospray Electrode P...
- Problems & Troubleshooting
  - MS Data Introduction
    - High Background Sig...

**It's Time to See the Future Differently**

**SCIEX Triple Quadrupole and QTRAP® Systems Maintenance and Troubleshooting Guide**

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