

LSI Q-TOF/TOF New User Training Content

Trainer: Wendy Feng/Paul Lennon

Location: Q-TOF, Room 3358A, Phone: 734-764-1319

TOF, Room 4151, Phone: 734-763-3814

Usually training is first conducted on Q-TOF:

1st session: - 1 hour, Nothing required on user's part

- HPLC: flow pathway, hardware components, plumbing, valve position, injection, pressure watch, mobile phases, column pressure limit, void volume, handling of capillary lines
- Q-TOF: ESI source, ion pathway, reference ions, vacuum, drying gas, salts to avoid, neutral species, diverting to waste
- Sample prep guideline: no solid particles/precipitates, components not miscible with mobile phases, caution on salts, diverting of column flow-through to waste, new solvents, sample concentration
- Sample log-in sheet, User Sign-up Rules, Instrument Usage Rules, Instrument problem reporting sheet, Contact info sheet, Communication

2nd session: - 1 hour or more, Schedule when you are ready!

- User sample runs: bring sample prep procedure, column, sample, sample composition, HPLC method
- Connect column: torque wrench, flow direction, wash, fittings
- MassHunter: acquisition software components, create method, create worklist, autosampler, start runs
- MassHunter: data analysis software components, data analysis, transfer to Word, printing, transfer to folder in Adenosine, use data analysis workstation
- Trouble-shoot: fittings, leak, pressure, after-hour contact
- End of runs: instrument standby, overnight/long runs: wash, end method

TOF training for Q-TOF users:

1st session: - 1 hour, Schedule when you have samples to run

- Fittings: Quick Connect and Quick Turn
- Creating method on TOF, solvent set up changes from Q-TOF, purge upon mobile phase change, bottle filling
- Difference with Q-TOF, end-of-run shut down
- Instrument sign-up rules, usage guideline
- Contact info sheet

2nd session: - 1 hour or more, Schedule when you have samples to run

- User sample runs
- Questions