

Mass spectrometry facility-Sample Submission Form

(Use separate form for each sample)

450 Chevron Science center, Department of Chemistry,
University of Pittsburgh, Pittsburgh, PA 15260

| | | | |
|--------------------------------|--|----------------|-------|
| File Number (for facility use) | | | |
| Name | | Advisor | |
| Email | | | |
| Sample ID on Vial | | | |
| Account No: | | | |
| Room Number | | Date Submitted | |
| Phone No. | | / | /2024 |

| |
|-----------------|
| SAMPLE LOCATION |
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- Samples should be submitted as **neat oils or solids** only in 1 dram vials.
- Approximately 1 mg of the sample is sufficient.
- Label the vial on the **top 1/2** of the area to make the sample visible.

Analysis Needed

- ☐ Nominal Mass /LRMS spectrum (Peaks in integer value)
☐ Fragmentation pattern or MS/MS spectrum (For structural elucidation), provide the mass _____
☐ Deconvoluted data Monoisotopic mass ☐ or Average mass ☐
☐ HRMS/Accurate mass for elemental composition determination (Error in Mass (mDa)/PPM).
 ☐ Publication (Example: Error 3mDa for JOC, 5PPM for OL); Journal Name/requirement: _____
 ☐ Dissertation
 ☐ Other _____

Preferred Ion Source (choose one)

- ☐ Use appropriate ionization method needed
☐ Electron Ionization: For volatile, low molecular weight compounds
☐ Electrospray Ionization: For polar, non-volatile high m.w compounds
☐ APCI/ASAP: For non-polar and low molecular weight compounds
☐ MALDI: For high M.Wt compounds like Peptides, Proteins, Polymers etc.
☐ LCMS ☐ GCMS

Molecular Formula:

Mono Isotopic Nominal Mass:

Proposed Structure:

Solubility (Must Provide for any analysis)

☐ CH₂Cl₂ ☐ MeOH ☐ Water ☐ ACN ☐ Other _____

Sample State: ☐ Solid ☐ Liquid ☐ Oil

Special Handling: ☐ Air Sensitive ☐ Hazardous ☐ Light Sensitive

Purity checked by: ☐ NMR ☐ TLC ☐ GC ☐ LC ☐ Other ____

Sample back: ☐ Yes ☐ No

Below For Facility Use Only

| | | | | | |
|-----------------------|--|--|--|--|--|
| File Name | | | | | |
| Date | | | | | |
| Analyzed by | | | | | |
| Representative Masses | | | | | |
| Comments | | | | | |