

Are RSA-Pro X vials recommended for PFAS analysis – FAQ

RSA-Pro X™ hydrophobic glass vials & inserts are not recommended for PFAS or Per- and Polyfluoroalkyl Substances analysis with LCMS / MS or GCMS.

During the conversion from RSA™ to RSA-Pro X™, the vials and inserts are exposed to PFAS. While some of these compounds of interest may not be detectable in HPLC, they may be detected, in trace amounts, by LCMS / MS or GCMS.

Recommended vials:

- High-density polyethylene (HDPE) or polypropylene containers with HDPE or polypropylene caps is the recommended containment for **sampling**.
- The use of LC polypropylene vials is commonly recommended for the **analysis** of PFAS. Click [HERE](#) for vial information. *(50% Methanol in Water has been shown as the optimal solution for dissolving PFAS and maintaining them in solution.) Request Samples, Click [HERE](#).*

Recommended caps:

- Sealed replaceable caps are suggested, as it has been noted the concentrations quantified can be altered as the PFAS chemical can be lost through evaporation via cap puncture as well as the organic solvent. If the solvent is lost through evaporation, the amount quantified may be higher than what is actually measured. PFAS compounds may also evaporate, which would lead to a lower measurement than the actual sample contains. Replacing caps with new sealed tops is the best practice to avoid these variances in quantitation. Click [HERE](#) for Caps information.

Sampling tip: *Vortexing the solution before injection ensures a homogenous solution and optimum results. The recovery of the long-chain PFAS is considerably lower before vortex due to settling in vials.*

