# AIHA PAT Side-by-Side Comparisons

Proficiency (PAT) Samples for evaluation of AIHA Accredited Labs have been routinely generated by placing a large number of Assay 566 and 3M 3500 Samplers together in an exposure chamber containing benzene, toluene, and xylene vapor. The exposure chambers were operated and monitored by a 3rd party (SRI, Intl) which provides PAT samples to AIHA. During the exposure, Reference Values for benzene, toluene, and xylene are developed by monitoring the chamber with active samplers (charcoal tubes). Reference Values are not revealed to participating labs until after submission of test results. Ultimately, AIHA compares each Lab's analyzed values for the Diffusive Samplers (they can choose Assay or 3M) to the Reference Values to evaluate each lab's proficiency.   In this study, a set of AT566 Samplers were analyzed and submitted for PAT by Assay Technology's Livermore, California Lab, while 3M Samplers were analyzed and submitted for PAT by Assay Technology's Boardman, Ohio Lab location.
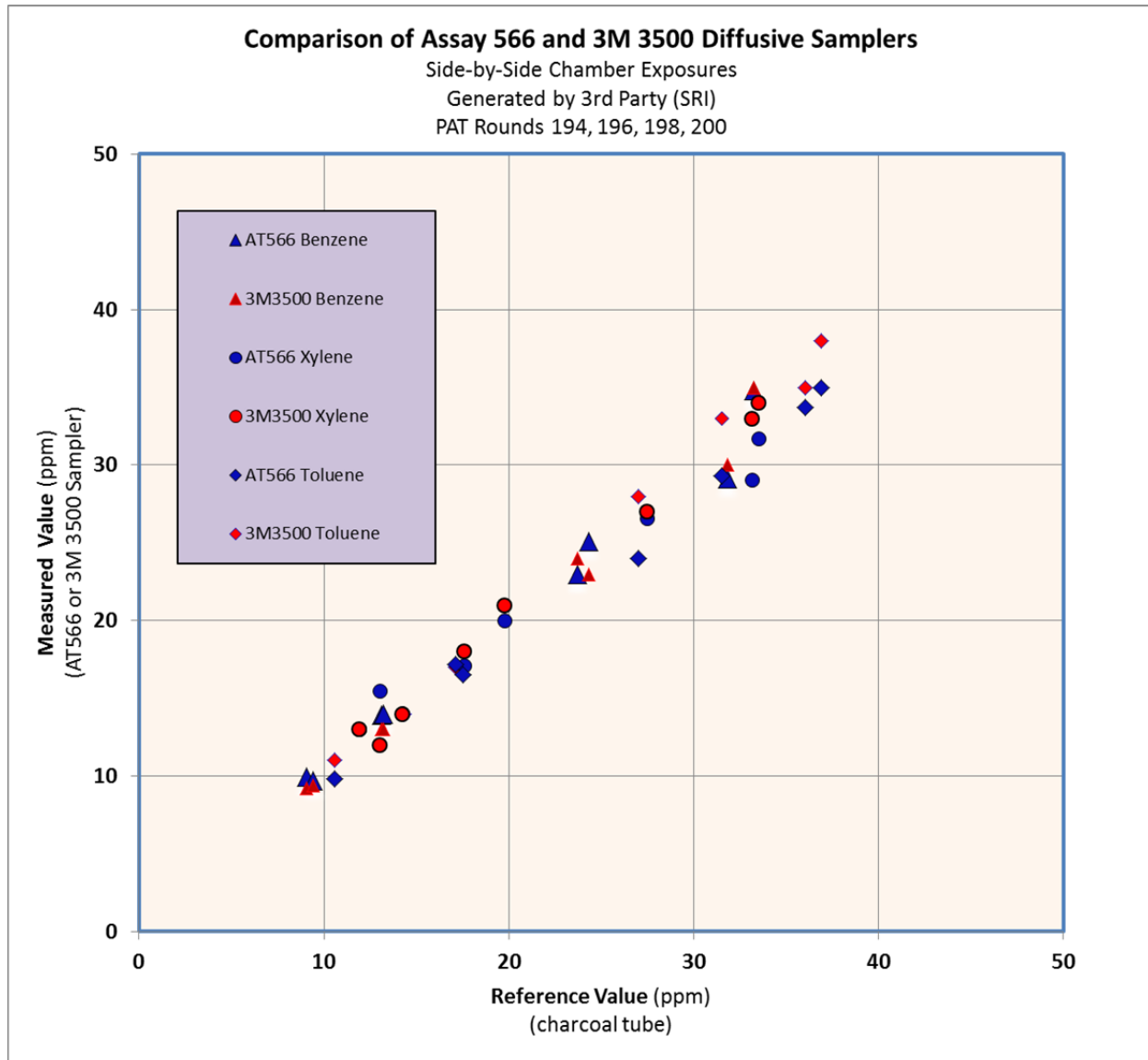
When measured Values for Diffusive Samplers were plotted versus the Reference Values for each exposure, the correlation co-efficients for each sampler for all three analytes were 0.98 or better.