

Quality Throughput in the Bioanalytical Lab

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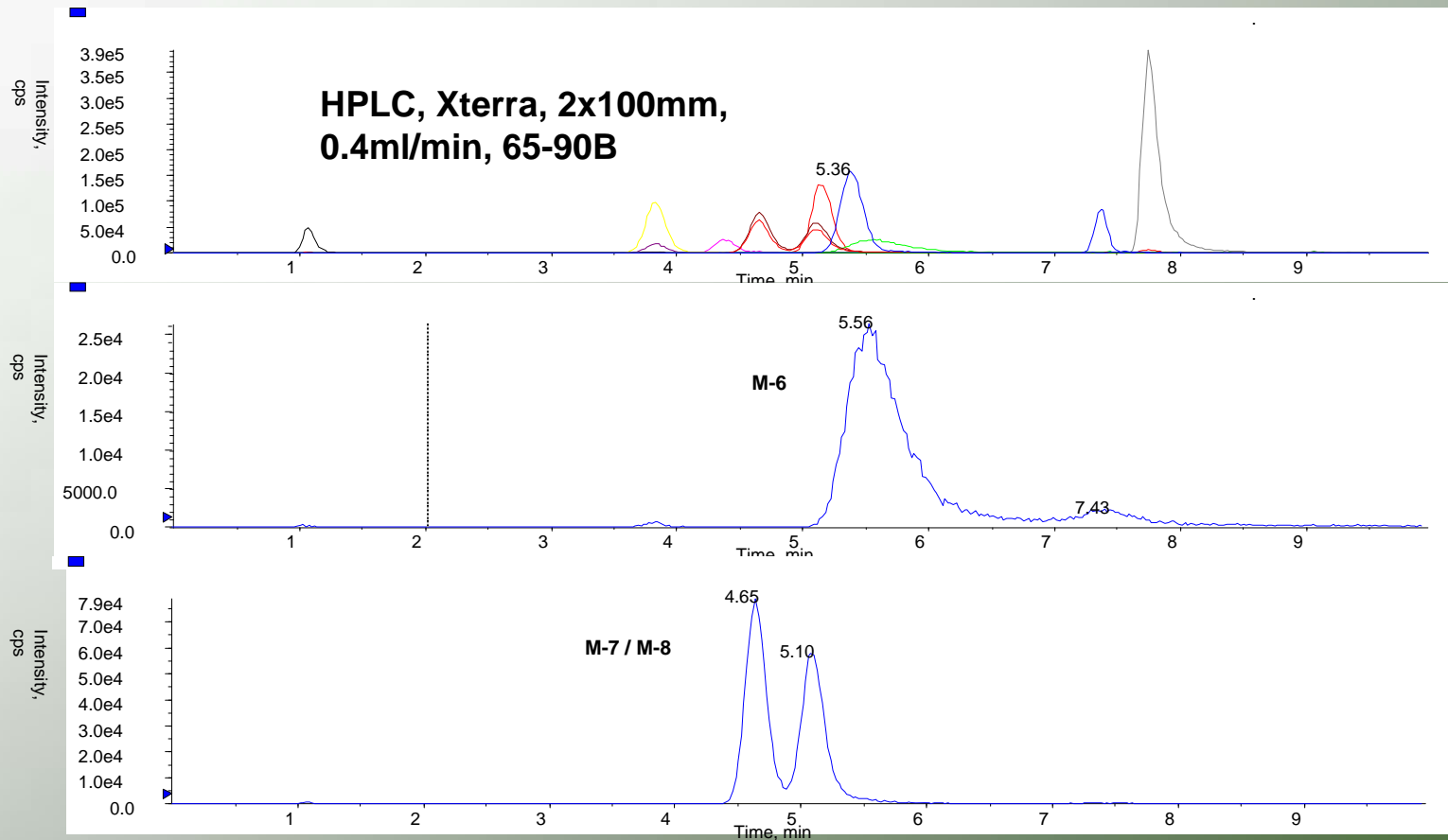
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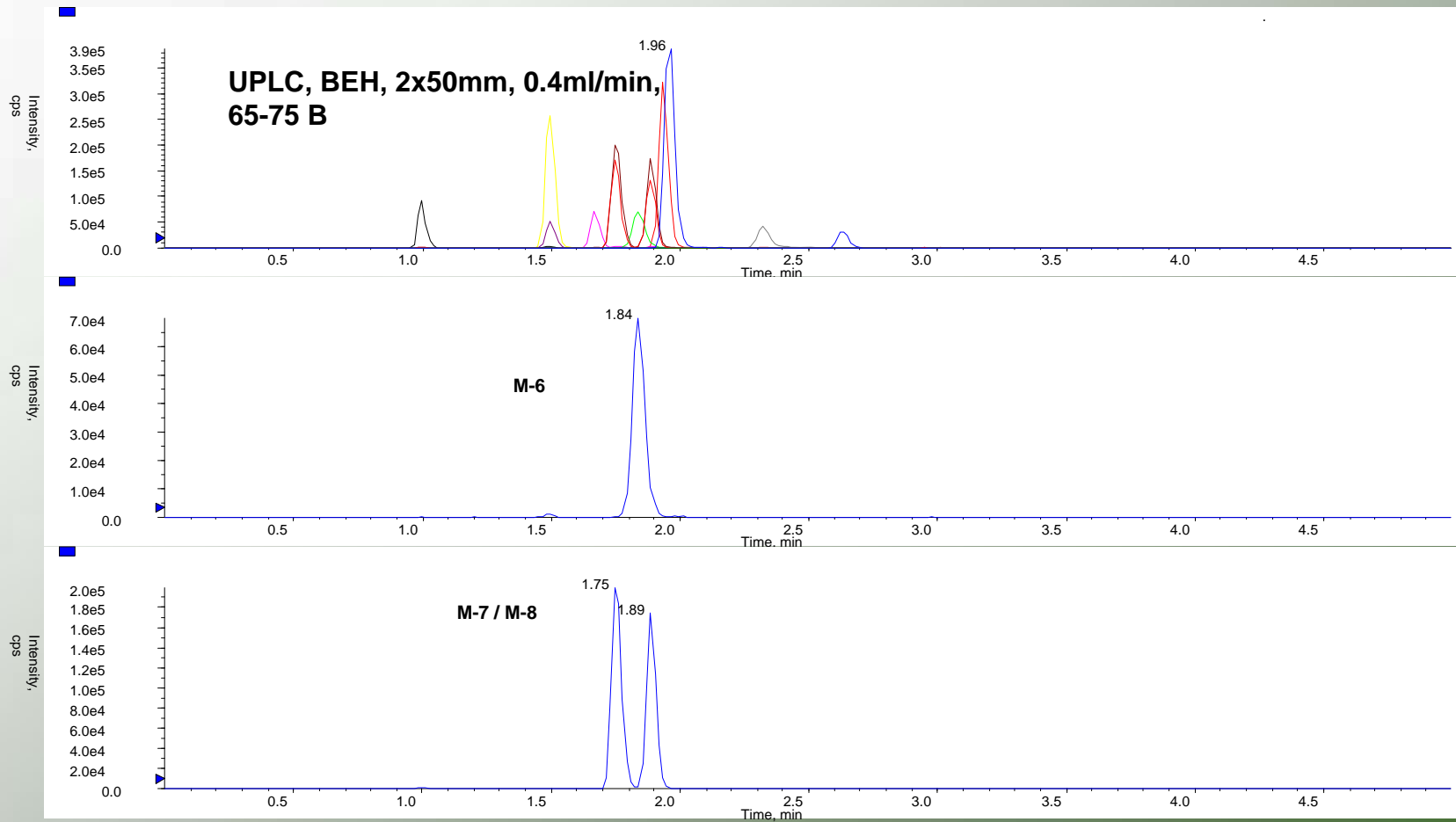
Why Quality Throughput?

- Speed + good science & compliance achieves goal of quality throughput in the bioanalytical work we do for our clients
- Its not only about throughput because without quality there can be issues like
 - Rework time & cost
 - Compliance & data quality risk
 - Client and Staff dissatisfaction
- So today I will present an example of bioanalytical quality throughput
 - HPLC/MS/MS assay converted to UPLC/MS/MS assay

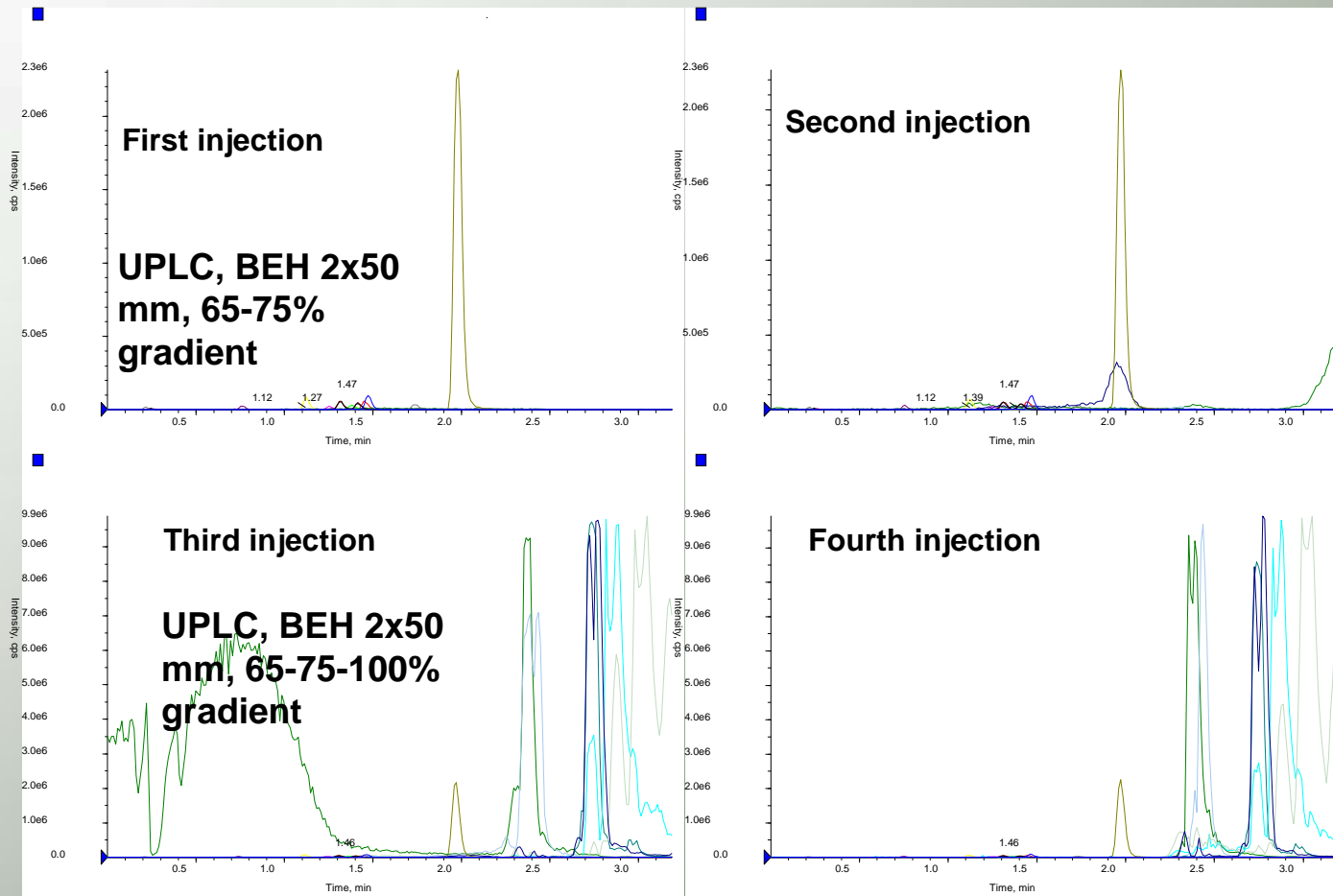
LC/MS/MS Chromatogram using conventional HPLC column



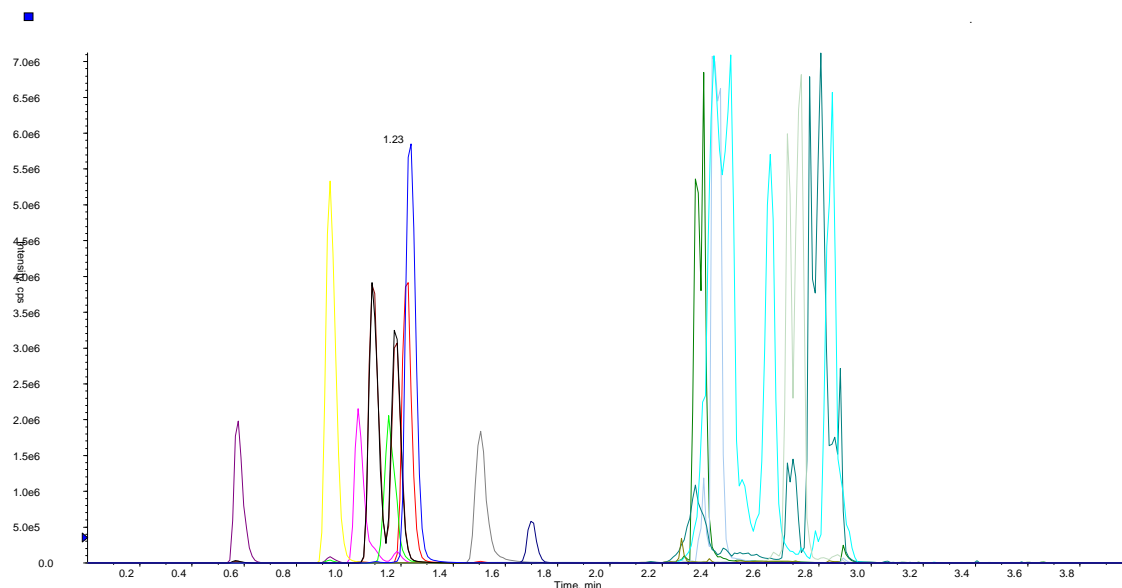
Chromatogram using UPLC column



UPLC elution of phospholipids (LLQ injected on a new column)



Std 8 (ULQ) Chromatogram. Gradient 65-75-100% plus optimized wash solvent to prevent carry-over.



Conclusion

- Throughput is not just speed, its speed and quality
- Example presented shows how UPLC and MS/MS technology was applied to deliver Quality Throughput in the Bioanalytical Lab