**GIVING ION MOBILITY TO THE MASSES: WHAT COLLISION-CROSS SECTION VALUES CAN DO FOR GLYCAN ANALYSIS OF BIOOTHERAPUTIC MONOCLONAL ANTIBODIES**

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**CONCLUSIONS**

- **rCCS values can improve the confidence of GLU library search results, particularly when high quality GU library searches return multiple isomeric possibilities.**
- **rCCS values can add an extra dimension of knowledge and may be useful in cases when tandem MS data is inconclusive.**
- **Possible resolution of glycans within a given chromatographic peak was observed.**

**Reference**


**INSTRUMENTATION**

**MC Conditions**

- LC System: ACQUITY UPLC H-Class Bio
- MS System: Vion IMS QToF
- Column Temp.: 4°C
- Gradient Conditions: Mobile Phase A: 50 mM ammonium formate, pH = 4.5 Mobile Phase B: 100 mM ammonium formate, pH = 4.5

**MS Conditions**

- MS System: Vion IMS QToF
- Acquisition Mode: ESI+, sensitivity mode
- Acquisition: UNIFI Glycan Application Solution
- Scientific Library: RFMS Glycan GU Library

**RESULTS**

We identified 25 mass confirmed RFMS labeled glycans from pooled human IgG using our Glu- 

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