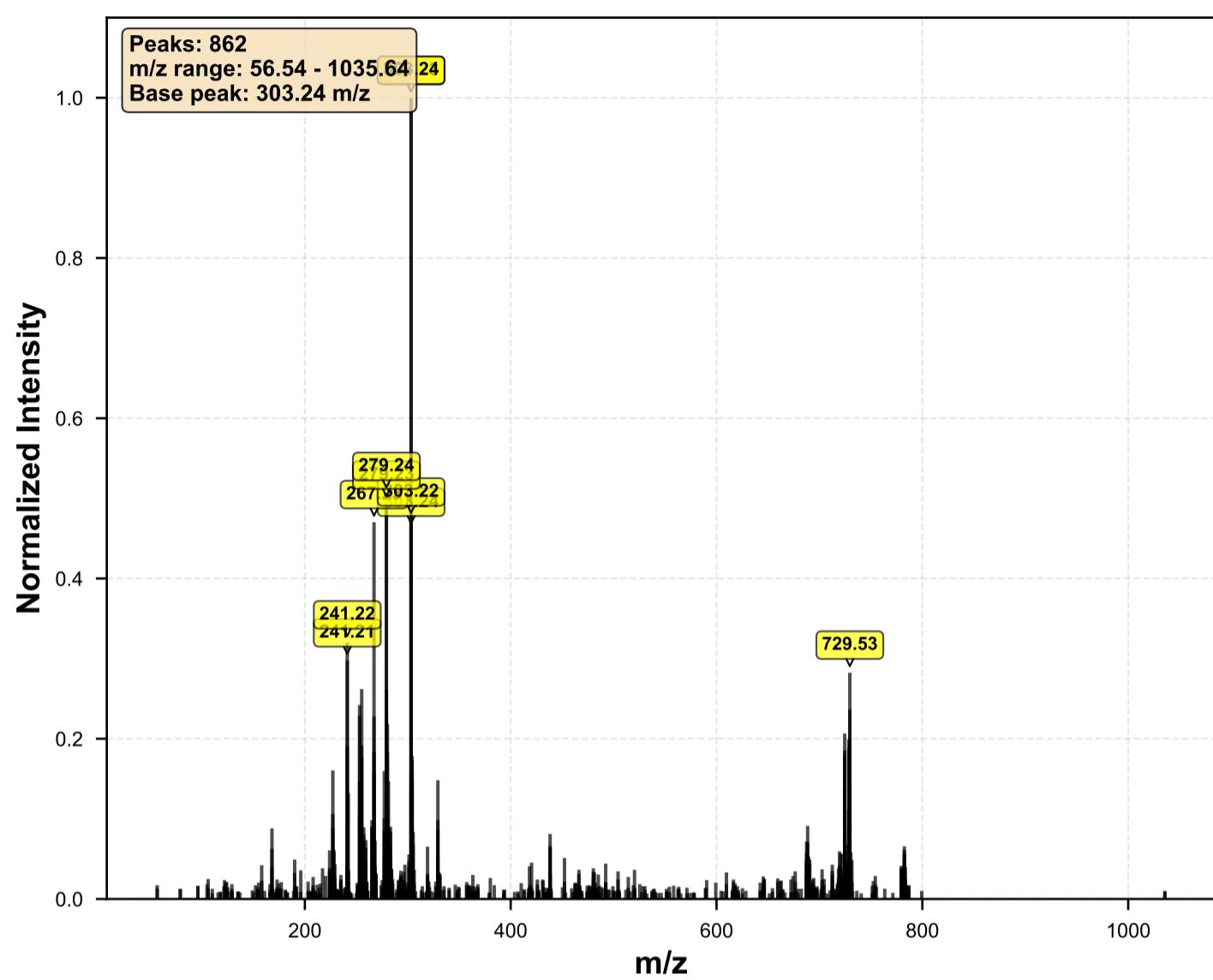# Spectrum 100 - Deep Dive Analysis
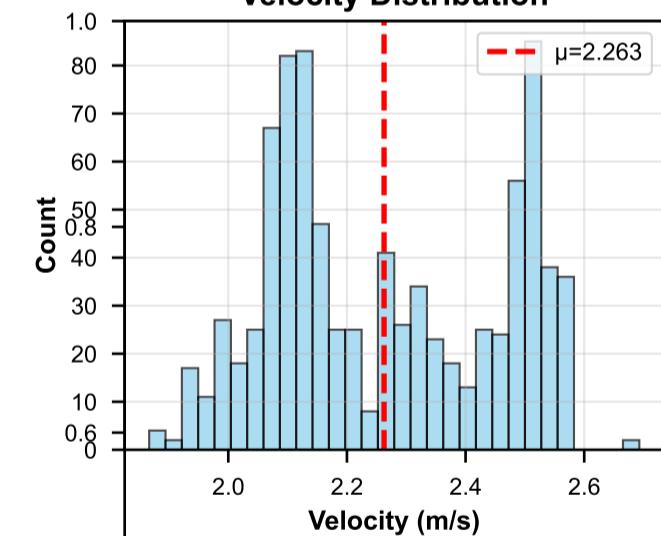
A. Stick Spectrum (Top 10 Peaks Annotated)

Peaks: 862
m/z range: 56.54 - 1035.64
Base peak: 303.24 m/z

Annotated peaks: 279.24, 267, 303.22, 241.22, 247.21, 729.53

Axis labels: Normalized Intensity (y), m/z (x)
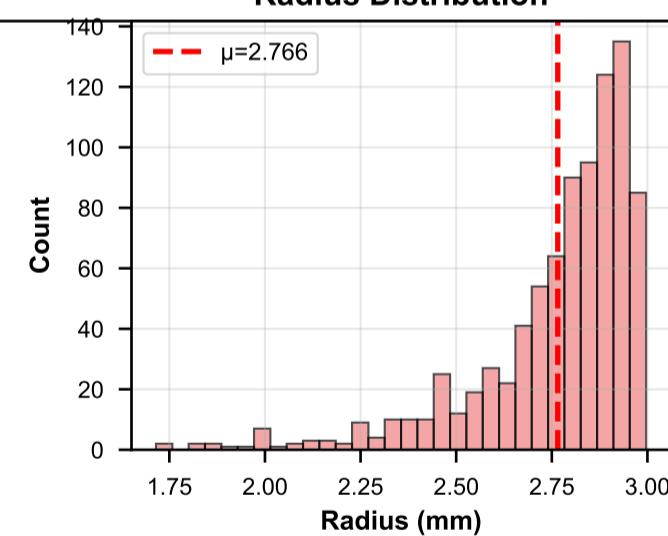
B. S-Entropy 3D Space (CV Method)

Axes: S_knowledge, S_time, S_entropy
Color bar: Intensity (0.2 – 1.0)

Velocity Distribution
μ=2.263
Axis: Velocity (m/s), Count
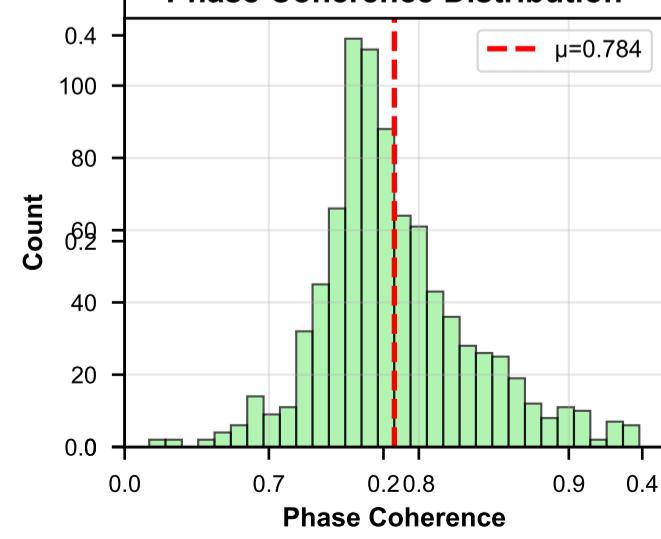
Radius Distribution
μ=2.766
Axis: Radius (mm), Count
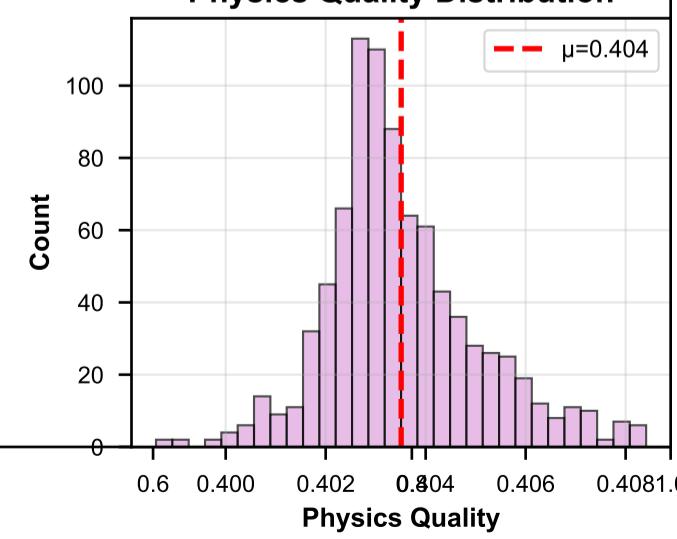
Phase Coherence Distribution
μ=0.784
Axis: Phase Coherence, Count

Physics Quality Distribution
μ=0.404
Axis: Physics Quality, Count

D. Comprehensive Statistics

Parameter	Value	Unit
NUMERICAL METHOD		
Peak count	862	
m/z range	56.54 - 1035.64	Da
Base peak m/z	303.24	Da
Base peak intensity	1565	counts
Shannon entropy	8.632	bits
Gini coefficient	0.581	
CV METHOD		
Droplet count	862	
S_knowledge mean	0.3156	
S_knowledge std	0.0484	
S_time mean	0.5480	
S_time std	0.1739	
S_entropy mean	0.9132	
S_entropy std	0.0792	
Velocity mean	2.2626	m/s
Velocity CV	8.56	%
Radius mean	2.7656	mm
Radius CV	7.73	%
Phase coherence mean	0.7837	
Physics quality mean	0.4035	
Physics quality std	0.0015	