

CERTIFICATE OF ANALYSIS

COA #: SD20260804_022_TZ50

SAMPLE INFORMATION

Client	Omega Labz	Accession #	SD20260804_022
Compound	Tirzepatide	Date Received	08/04/2026
Molecular Formula	C225H348N48O68	Date Reported	08/07/2026
Counter Ion / Salt	NA	Appearance	White lyophilized powder
Labeled Quantity	50 mg	Sample Form	Vial
Lot / Batch #	TZ564	Storage	Room Temp
CAS Number	2023788-19-2	Crimp Color	White

All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	Tirzepatide	Pass
Purity	LC-MS/MS	≥ 95.0%	99.57%	Pass
Net Peptide Content	LC-MS/MS	Report value	53.45 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1204 [M+4H]	Pass
Theoretical Molecular Mass	Reference	—	4813.45 Da	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

*John Humes, MS.***John Humes, MS.**

Analyzed by · Laboratory Analyst · 08/07/2026

*Chetan Soni, PhD.***Chetan Soni, PhD.**

Approved by · Laboratory Director · 08/07/2026

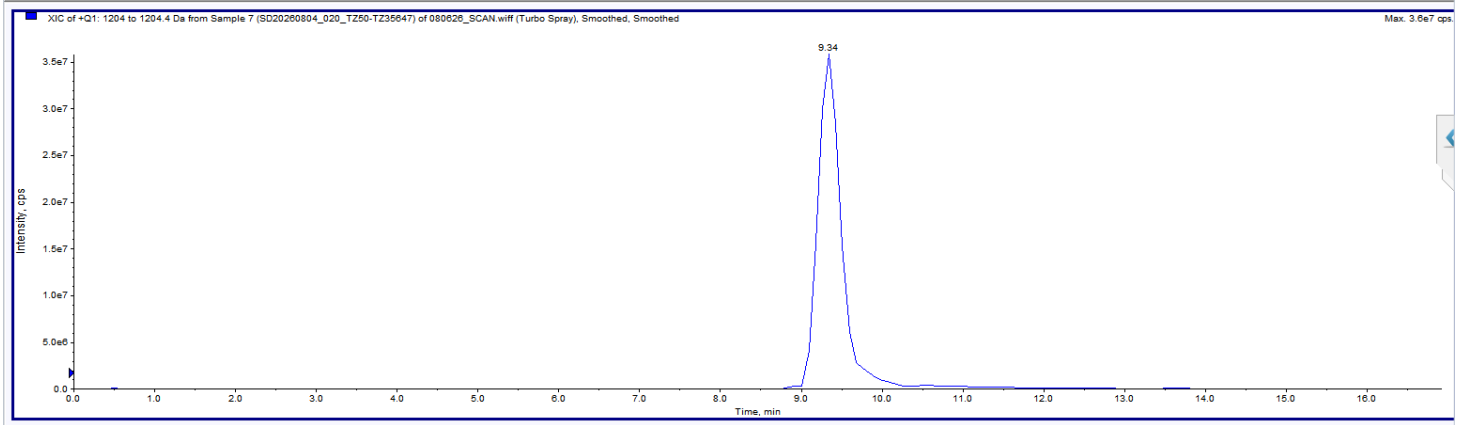
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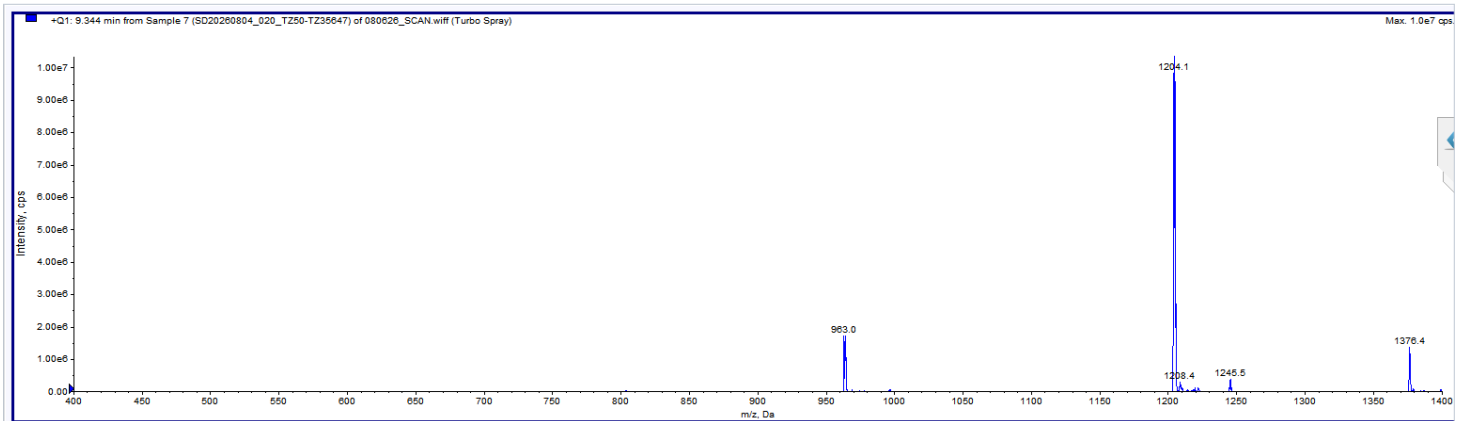
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – Tirzepatide):

A positive-mode Q1 full scan acquired at 9.34min from the Tirzepatide sample shows a dominant precursor ion envelope centered around m/z 1204.1, with supporting peaks at 983.0, 1208.4, 1245.4, and 1376.4. These ions correspond to the expected multiply charged isotopic and adduct distribution of Tirzepatide under validated LC-MS conditions. The observed mass profile and charge-state pattern match the theoretical precursor ion distribution within tolerance limits, confirming analyte identity in this sample.

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