

CERTIFICATE OF ANALYSIS

COA #: **SD20260818_002_TZ30**

SAMPLE INFORMATION

Client	MTCompounds	Accession #	SD20260818_002
Compound	Tirzepatide	Date Received	08/18/2026
Molecular Formula	C225H348N48O68	Date Reported	08/20/2026
Appearance	White lyophilized powder	Labeled Quantity	30mg
Sample Form	Lyophilized Vial	Lot / Batch #	N/A
Storage	Room Temp	CAS Number	2023788-19-2
Cap 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%	99.723%	Pass
Net Peptide Content	LC-MS/MS	Report value	32.53 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1204.1 [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.

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Analyzed by · Laboratory Analyst ·

Chetan Soni, PhD.

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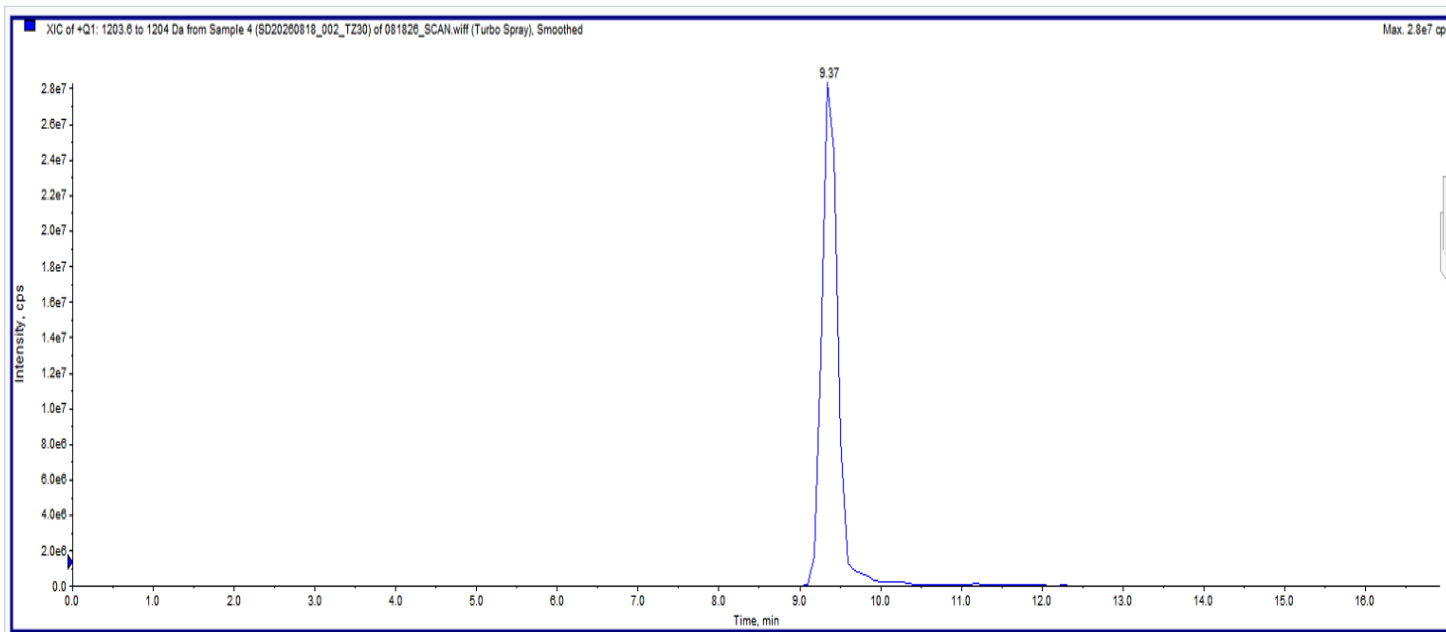
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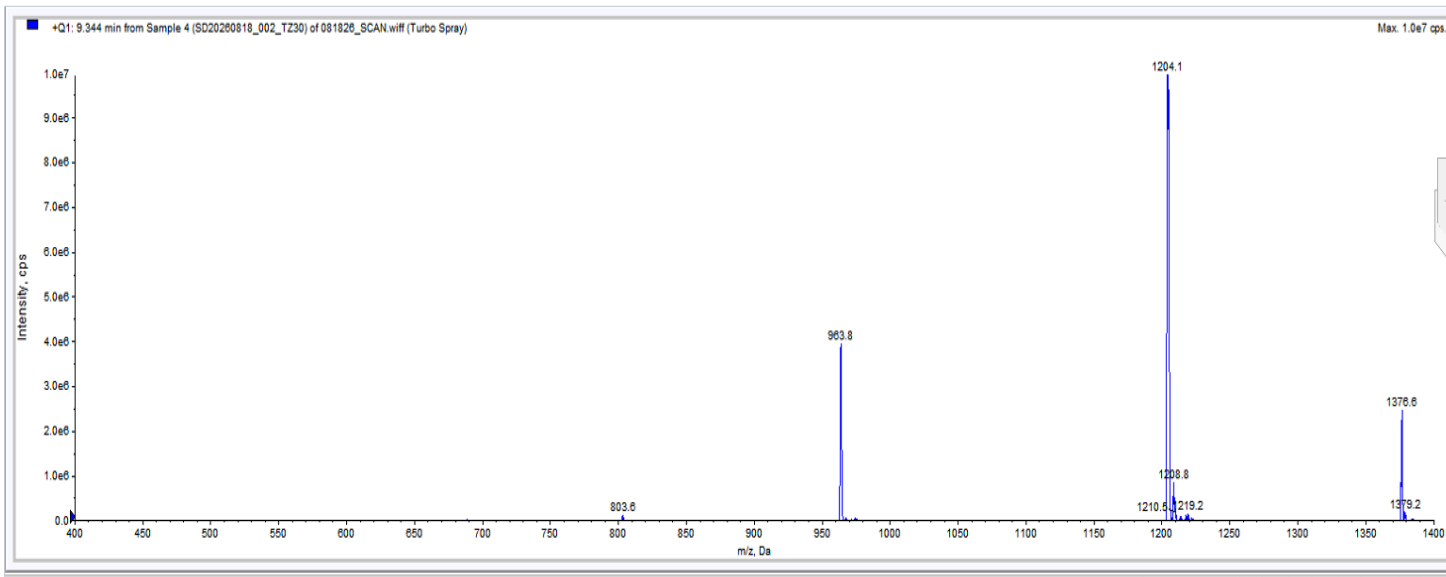
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

LC MS Q1 scan collected at approximately 9.3 minutes shows a dominant precursor ion at $m/z \approx 1204.1$ Da, with minor associated peaks between 1208–1222 Da. The spectral profile indicates a single major species consistent with the expected molecular ion for the Tirzepatide compound.

No extraneous peaks or interfering ions were observed within the analytical window, and the chromatographic retention time aligns with the validated method parameters. The data confirm the presence of the target compound and support identity verification under standard LC MS conditions.

Instrument performance and method integrity were verified; results are consistent with a valid Tirzepatide standard.

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