

CERTIFICATE OF ANALYSIS

COA #: SD20260804_029_RT50

SAMPLE INFORMATION

Client	Omega Labz	Accession #	SD20260804_029
Compound	Retatrutide	Date Received	08/04/2026
Molecular Formula	C221H342N46O68	Date Reported	08/07/2026
Counter Ion / Salt	NA	Appearance	White lyophilized powder
Labeled Quantity	50 mg	Sample Form	Vial
Lot / Batch #	RT4796	Storage	Room Temp
CAS Number	2381089-83-2	Crimp Color	Black

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	Retatrutide	Pass
Purity	LC-MS/MS	≥ 95.0%	99.753 %	Pass
Net Peptide Content	LC-MS/MS	Report value	53.02 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1184.2 [M+4H]	Pass
Theoretical Molecular Mass	Reference	—	4731.35 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

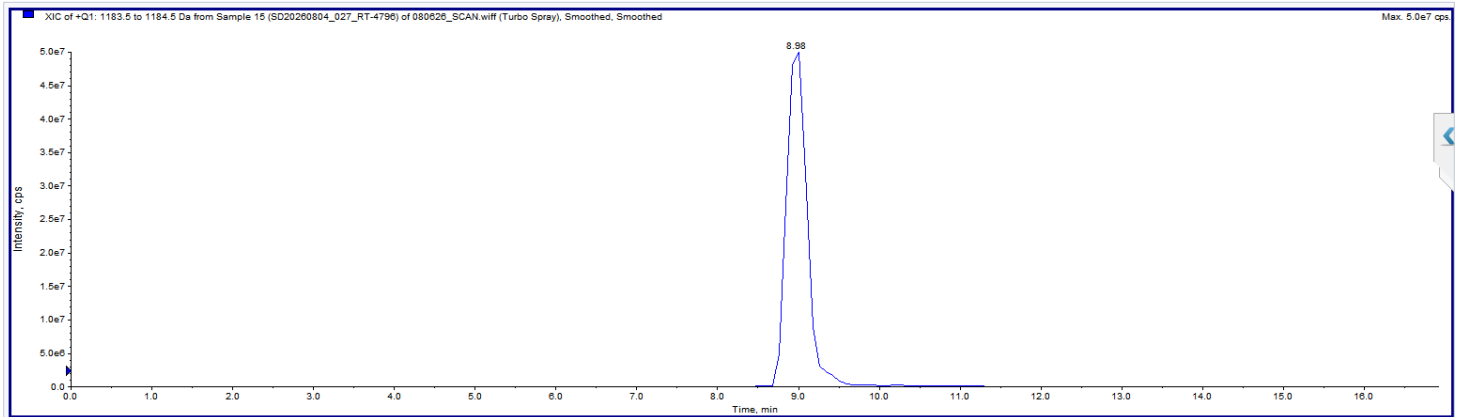
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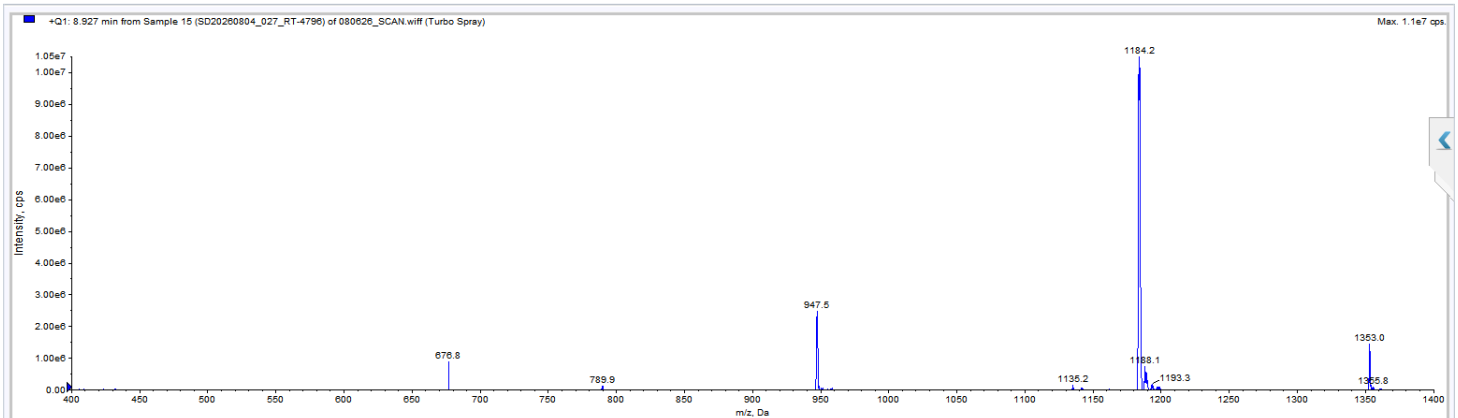
ANALYTICAL DATA

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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 – Retatrutide):

A positive-mode Q1 full scan acquired at 8.93min from the Retatrutide sample shows a dominant precursor ion envelope centered at m/z 1184.2, with supporting peaks at 676.8, 789.9, 947.5, 1135.2, 1188.1, 1193.3, 1353.0, and 1355.8. These ions represent the expected multiply charged isotopic and adduct distribution of Retatrutide under validated LC-MS conditions. The observed mass profile aligns with the theoretical precursor ion pattern within tolerance limits, confirming analyte identity.

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