

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_005_RT40**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_005
Compound	RT3	Date Received	08/28/2026
Molecular Formula	C221H342N46O68	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	40 mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0042
Storage	Room Temp	CAS Number	2381089-83-2
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	Retatrutide	Pass
Purity	LC-MS/MS	≥ 95.0%	99.87%	Pass
Net Peptide Content	LC-MS/MS	Report value	43.27 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1184 [M+4H]	Pass
Theoretical Molecular Mass	Reference	—	4731.35	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 · 09/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 09/01/2026

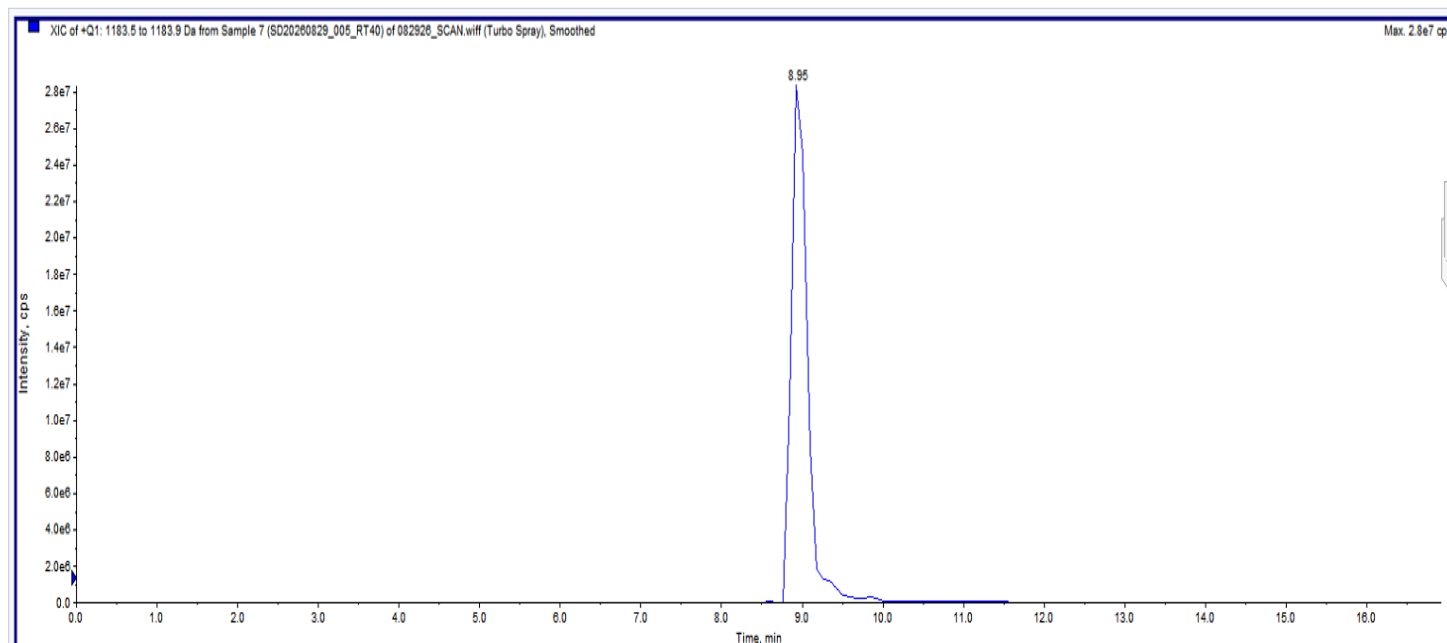
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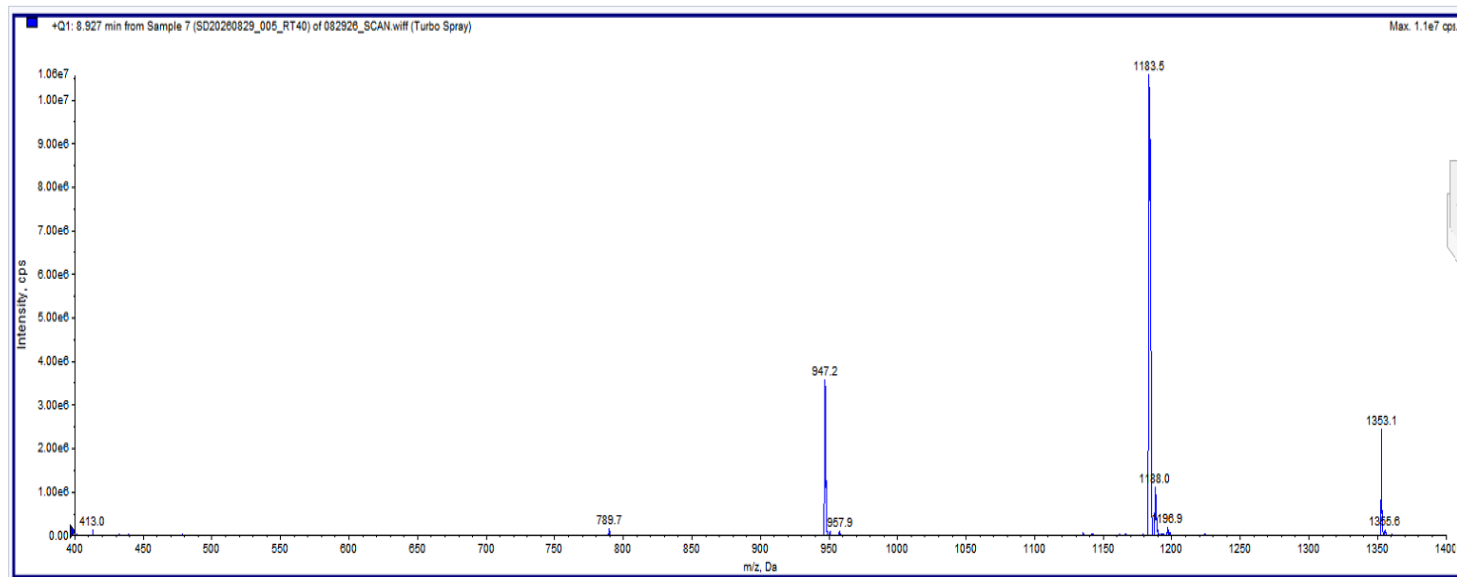
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Matches

Mass Spectrum (LC-MS)

LC-MS analysis of the submitted Retatrutide sample produced a single dominant precursor ion at $m/z \approx 1183$ Da, with minor associated peaks between 1188–1206Da. The retention time was approximately 8.9 minutes, consistent with the expected elution window for this compound under standard chromatographic conditions.

The spectral profile confirms the presence of a single major species corresponding to the Retatrutide molecular ion, with no significant secondary peaks indicative of impurities or degradation products. The data supports the compound identity and purity within the limits of the LC-MS method.

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