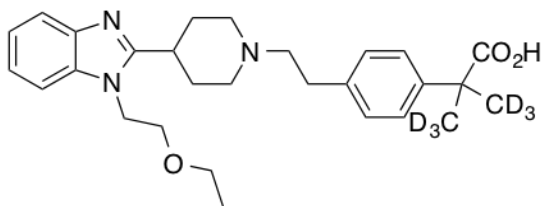


Certificate of Analysis



Name:	Bilastine-D6
Lot#:	GR-19-277
Test Date:	06/25/2025 (re-test date: 06/25/2030)
CAS No.:	1215358-58-9
MF:	C ₂₈ H ₃₁ D ₆ N ₃ O ₃
MW:	469.65
Appearance:	White solid
Purity:	99.2% by HPLC (average of two sample preparations); 99.5% atom D
¹H-NMR:	Conforms
MS-ESI (-)	Conforms (shows peak at m/z = 468.31 [M-H] ⁻)
Storage	Store at 0-8°C in a dry place away from direct sunlight

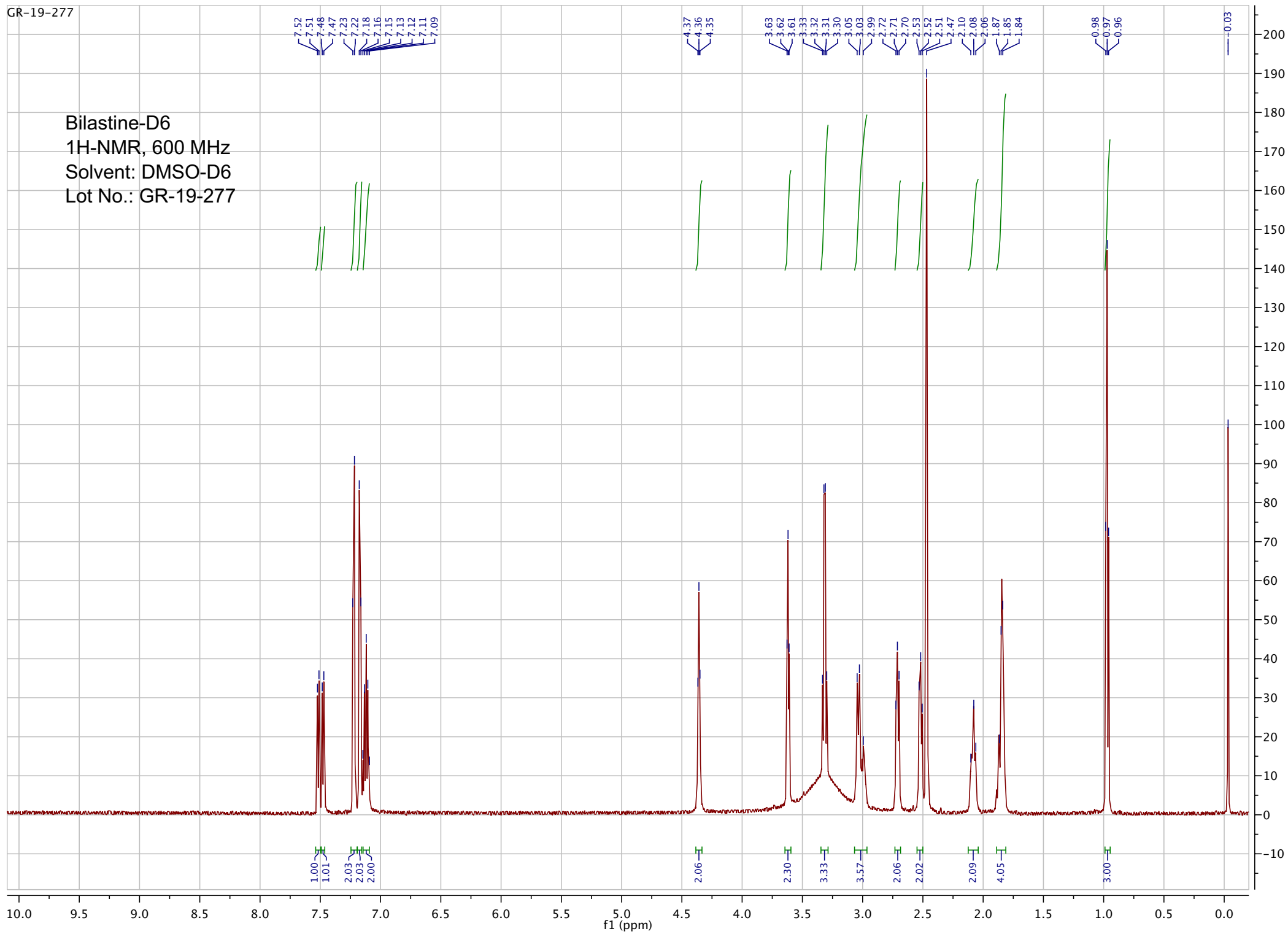
Approved by:

Date: 07/07/2025

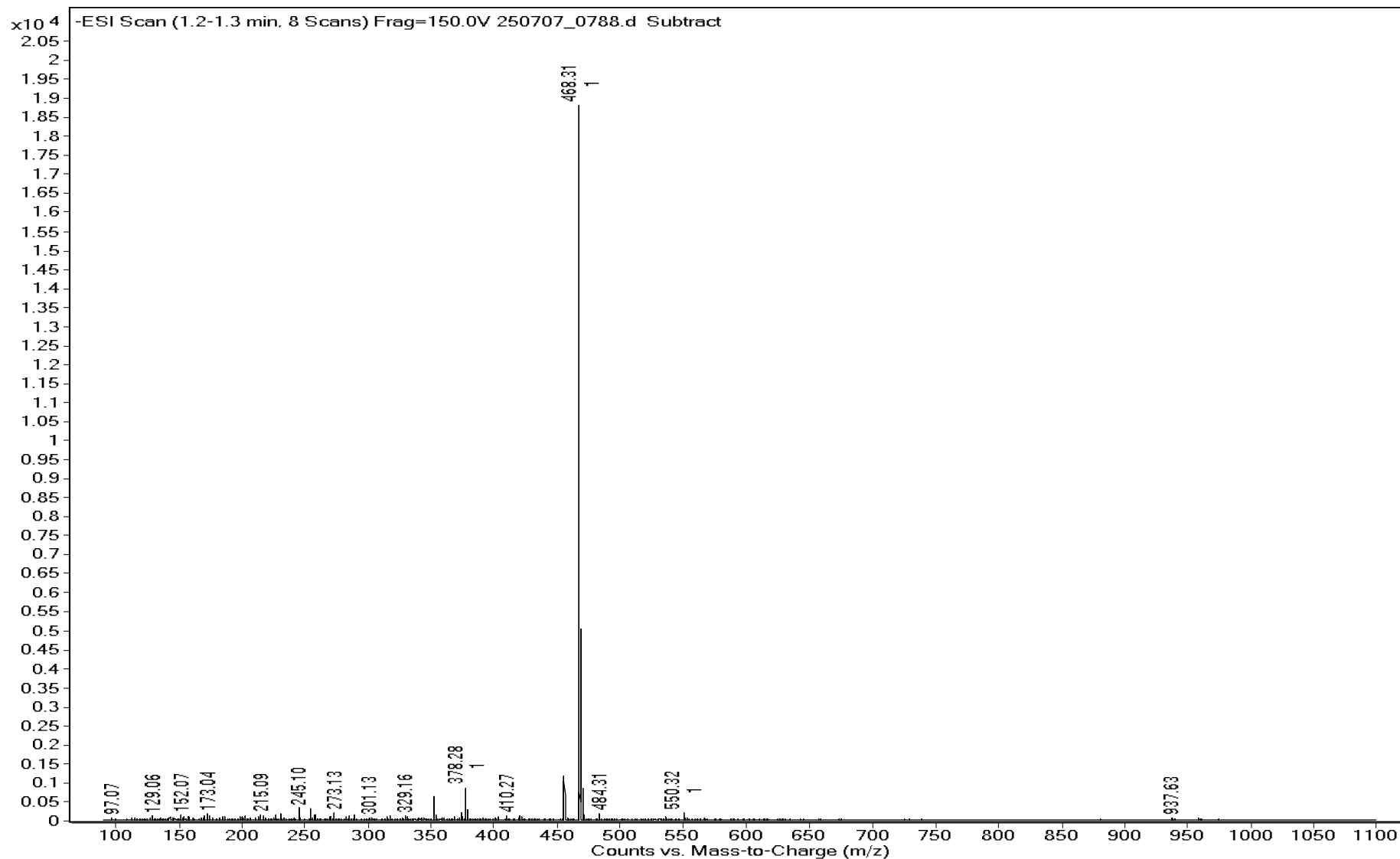
Viorica Rusu, QC/QA Manager

GR-19-277

Bilastine-D6
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-19-277



Sample Name	GR-19-277	Data File	250707_0788.d	Acq Method	HRMS_Negative.m
DA Method	AIMS_Accurate_Mass.m	Instrument	Agilent 6538 UHD	Acq Date, Time	07/07/2025 1:09:05 PM
Comment	ESI-				



ESI-MS Report

Molecular Formula Generation (MFG)

Sample Name GR-19-277
Acq Method HRMS_Negative.m
Instrument Agilent 6538 UHD
Comment ESI-

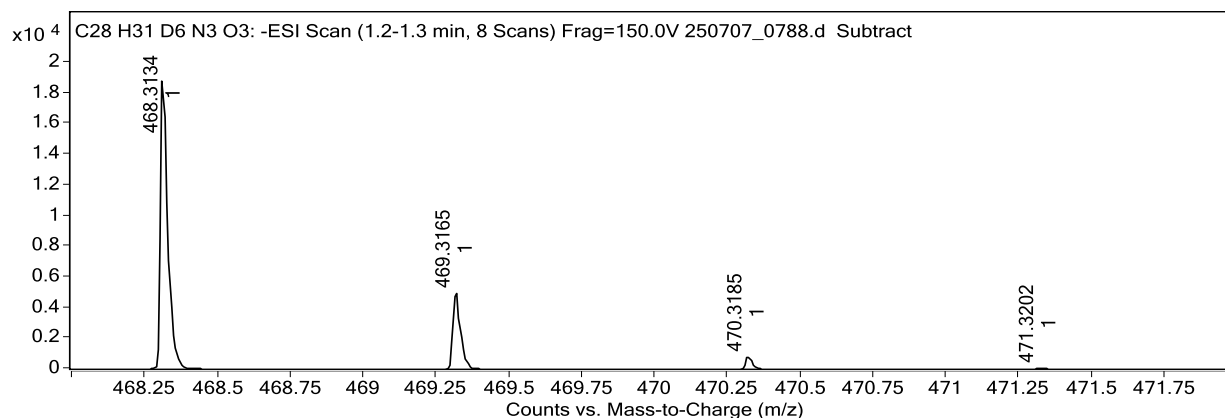
Data File 250707_0788.d
DA Method AIMS_Accurate_Mass.m
Acq Date, Time 07/07/2025 1:09:05 PM

Target Ion Species

Ion Species	m/z	Ionic Formula
(M-H) ⁻	468.3134	C28 H30 D6 N3 O3

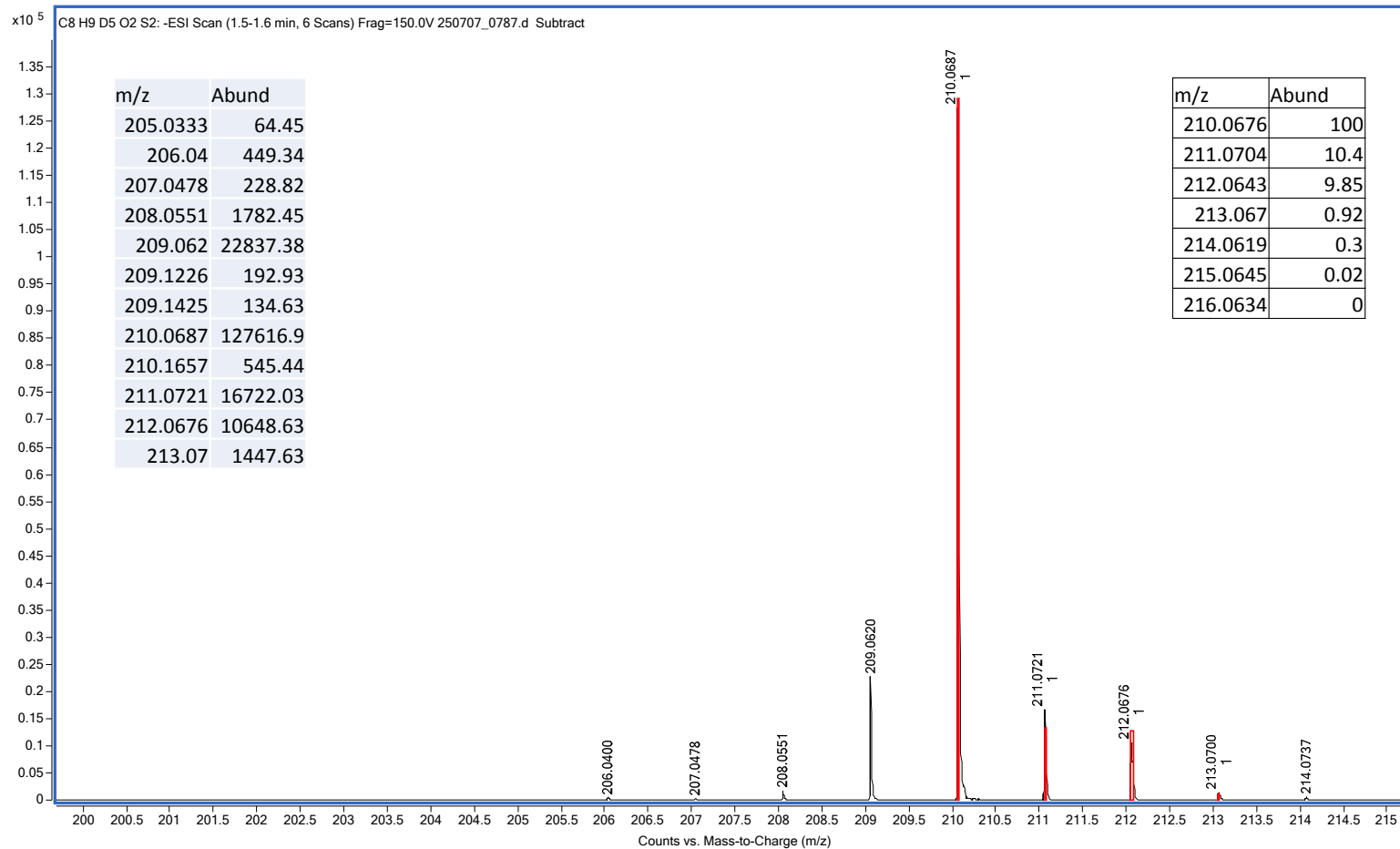
MFG Calculator Results

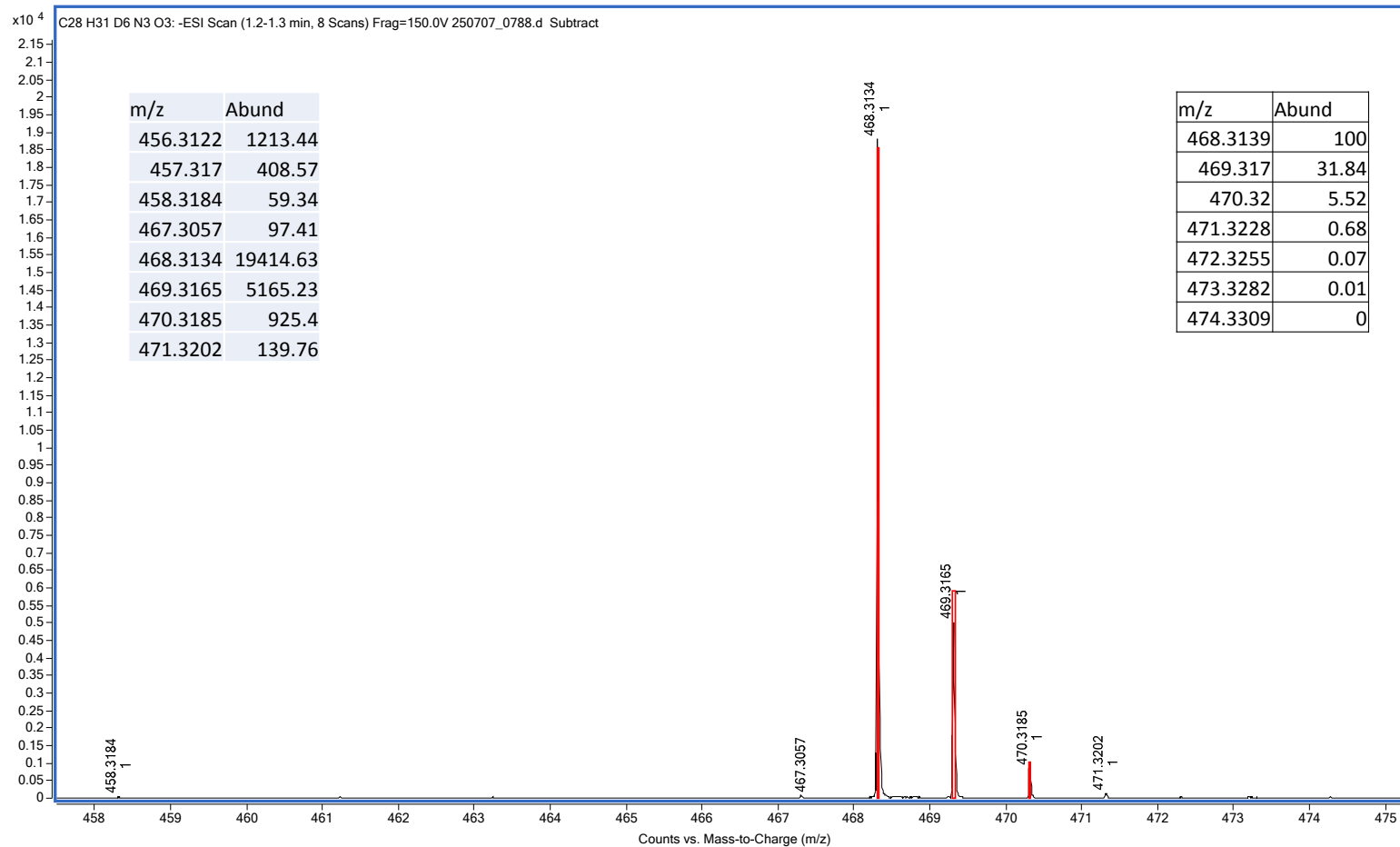
Target m/z	Ionic Formula	Calc m/z	+/- (mDa)	+/- (ppm)	DBE	MFG Score
468.3134	C21 H34 D3 N8 O4	468.3132	0.2	0.4	7.0	99.45
468.3134	C23 H34 D4 N5 O5	468.3129	0.5	1.1	7.0	99.40
468.3134	C25 H34 D5 N2 O6	468.3127	0.7	1.5	7.0	98.66
468.3134	C24 H30 D4 N9 O	468.3143	-0.9	-1.9	12.0	96.61
468.3134	C26 H30 D5 N6 O2	468.3141	-0.7	-1.5	12.0	96.19
468.3134	C28 H30 D6 N3 O3	468.3139	-0.5	-1.1	12.0	95.29
468.3134	C22 H42 D2 N O9	468.3147	-1.3	-2.8	1.0	94.90
468.3134	C20 H42 D N4 O8	468.3149	-1.5	-3.2	1.0	93.35
468.3134	C20 H38 D3 N4 O8	468.3118	1.6	3.4	2.0	93.29
468.3134	C22 H38 D4 N O9	468.3116	1.8	3.8	2.0	93.22



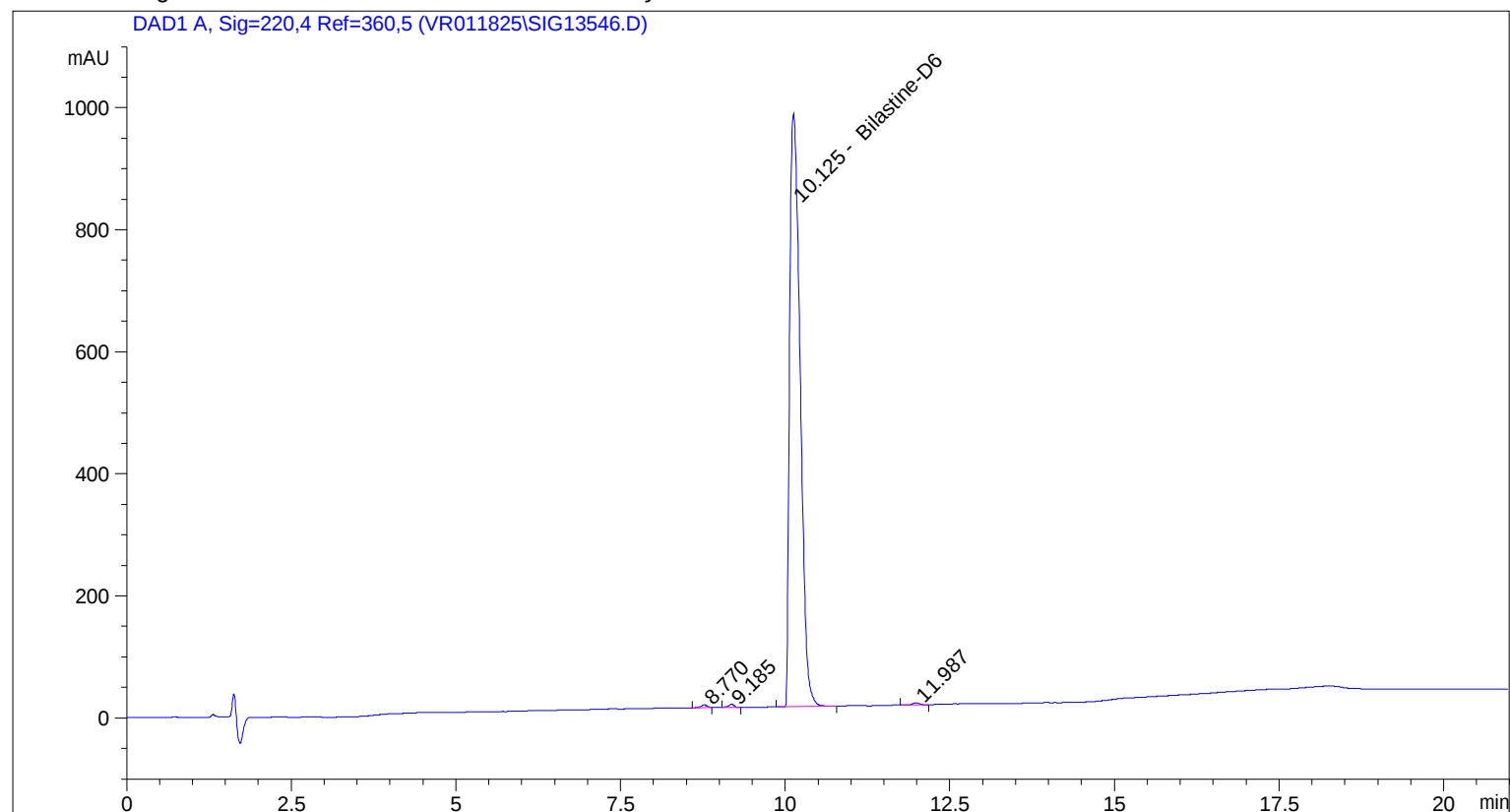
Predicted Isotope Match Table

Isotope	m/z	Calc m/z	Diff (mDa)	Abund (%)	Calc Abund (%)	+/-
1	468.3134	468.3139	-0.5	100.0	100.0	0.0
2	469.3165	469.3170	-0.5	26.6	31.8	5.2
3	470.3185	470.3200	-1.5	4.8	5.5	0.7





=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 1
Injection Date : 6/24/2025 2:30:28 PM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR062425_277.M
Last changed : 6/24/2025 2:28:59 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR062525_277PM.M
Last changed : 6/25/2025 8:39:57 AM by vrusu



=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 6/25/2025 8:39:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	8.770	BB	0.0948	29.64020	0.2725	?
2	9.185	BB	0.0888	29.87022	0.2746	?
3	10.125	BB	0.1815	1.07861e4	99.1742	Bilastine-D6
4	11.987	BB	0.1170	30.30547	0.2786	?

Totals : 1.08760e4

Sample Name: GR-19-277

=====

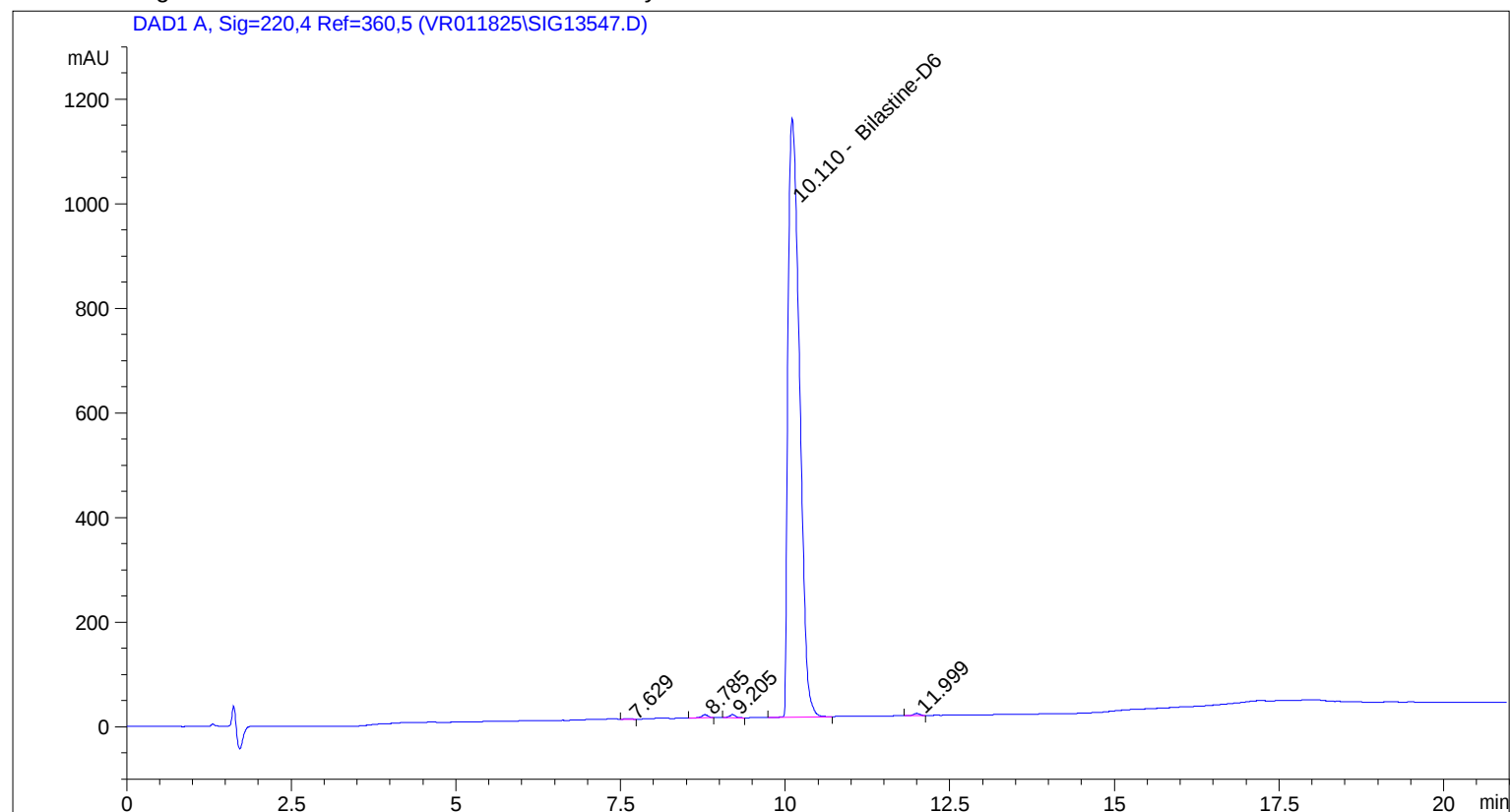
*** End of Report ***

Sample Name: GR-19-277 spl-2

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1
Injection Date  : 6/24/2025 2:56:49 PM
Location       : Vial 2
Inj Volume     : 10.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR062425_277.M
Last changed   : 6/24/2025 2:55:44 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR062525_277PM.M
Last changed   : 6/25/2025 8:42:24 AM by vrusu
=====

```



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=====
                        Area Percent Report
=====

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```

Sorted By           :      Signal
Calib. Data Modified :      6/25/2025 8:39:26 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.629	BB	0.0950	8.10319	0.0578	?
2	8.785	BB	0.0992	43.69765	0.3117	?
3	9.205	BB	0.0906	36.82823	0.2627	?
4	10.110	BB	0.1976	1.39027e4	99.1649	Bilastine-D6
5	11.999	BB	0.1023	28.45041	0.2029	?

```
Totals :                      1.40198e4
```

Sample Name: GR-19-277 spl-2

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*** End of Report ***