

<b>Name:</b>	<b>N-Acetyl Clonidine-D4</b>
<b>Lot#:</b>	GR-16-139
<b>Test Date:</b>	09/13/2021 (re-test date: 09/13/2026)
<b>CAS No.:</b>	54707-71-0 (unlabelled)
<b>MF:</b>	C <sub>11</sub> H <sub>7</sub> D <sub>4</sub> Cl <sub>2</sub> N <sub>3</sub> O
<b>MW:</b>	276.08
<b>Appearance:</b>	White solid
<b>Purity:</b>	99.9% by HPLC (average of two sample preparations); 99% atom D
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (+)</b>	Conforms (shows peaks at m/z = 276.03, 278.04, 280.06 [M+H] <sup>+</sup> exhibits the expected isotope pattern for di-chloro compounds)
<b>Storage</b>	Store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 09/13/2021



Viorica Rusu, QC/QA Manager

GR-16-139

7.38  
7.36  
6.98  
6.96  
6.95  
6.85

3.30

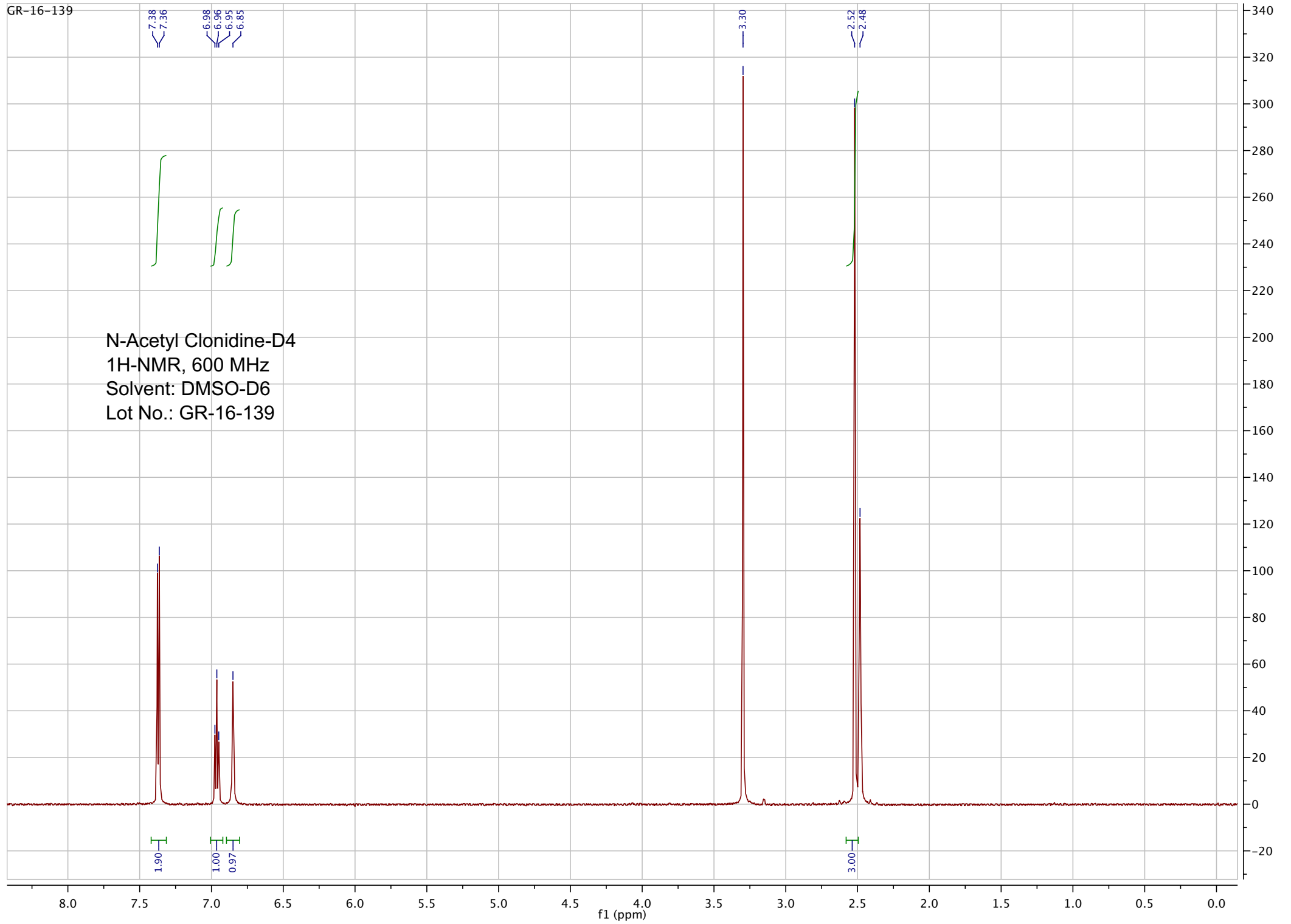
2.52  
2.48

N-Acetyl Clonidine-D4  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-16-139

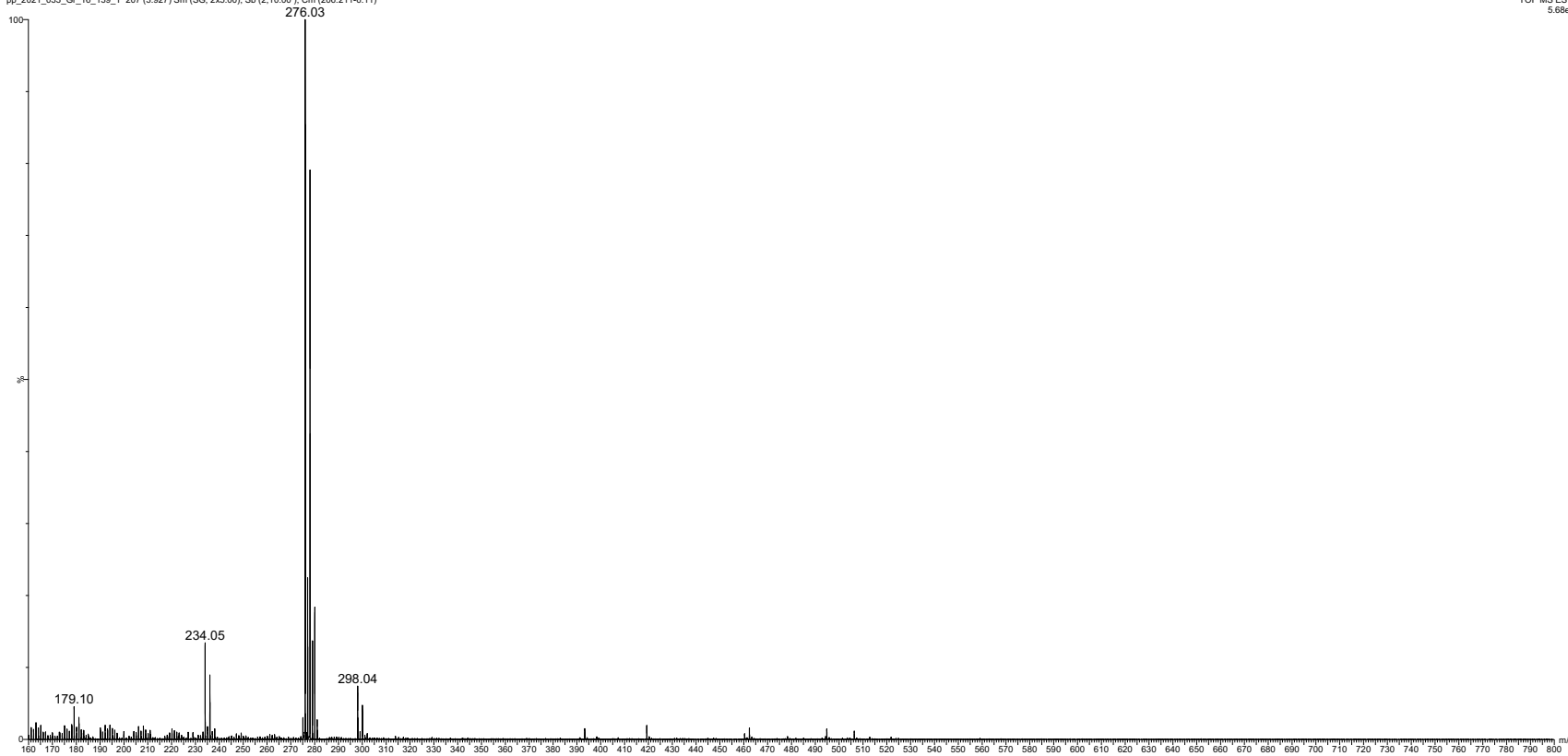
1.90

1.00  
0.97

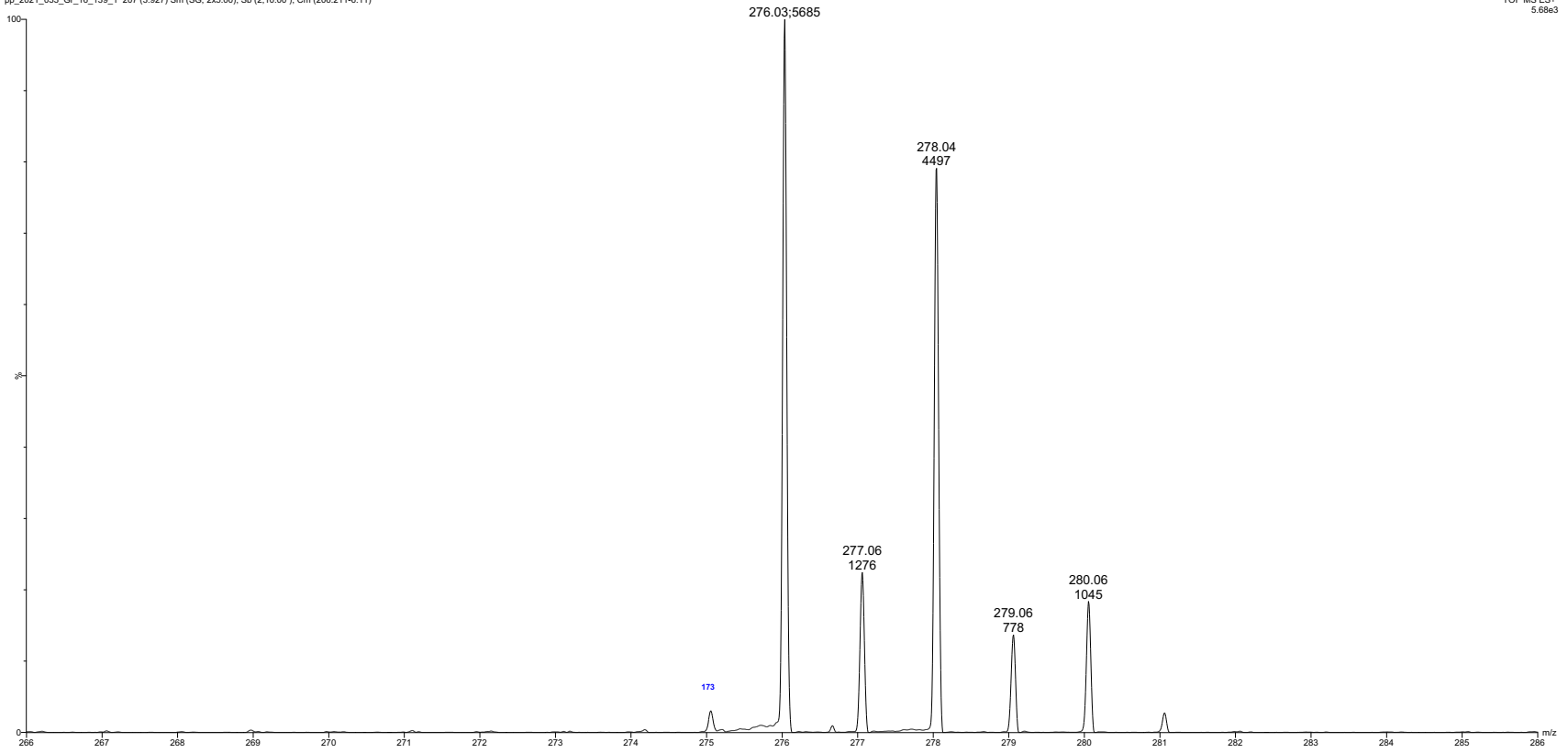
3.00



pp\_2021\_033\_Gr\_16\_139\_1 207 (3.927) Sm (SG, 2x5.00); Sb (2,10.00); Cm (206.211-6.11)

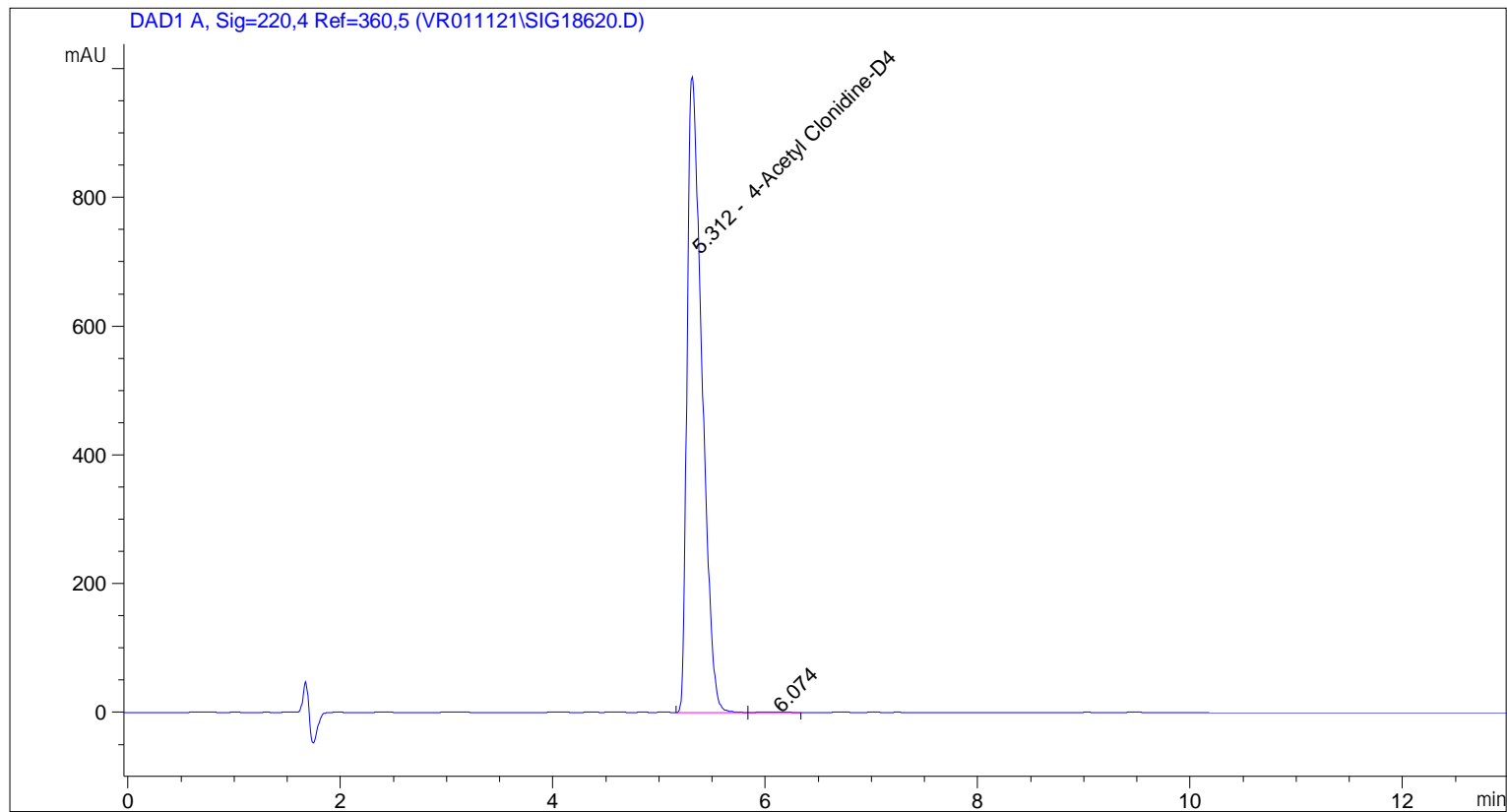


ESI-MS spectrum for sample GR-16-139. Shows monoisotopic  $[M+H]^+$  mass.



Expansion of above showing intensity labels.

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Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 13  
Injection Date : 9/13/2021 12:35:27 PM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR091321\_139.M  
Last changed : 9/13/2021 12:34:22 PM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR\_091321\_139PM.M  
Last changed : 9/13/2021 1:03:59 PM by vrusu



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Area Percent Report  
=====

Sorted By : Signal  
Calib. Data Modified : 9/13/2021 12:51:37 PM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

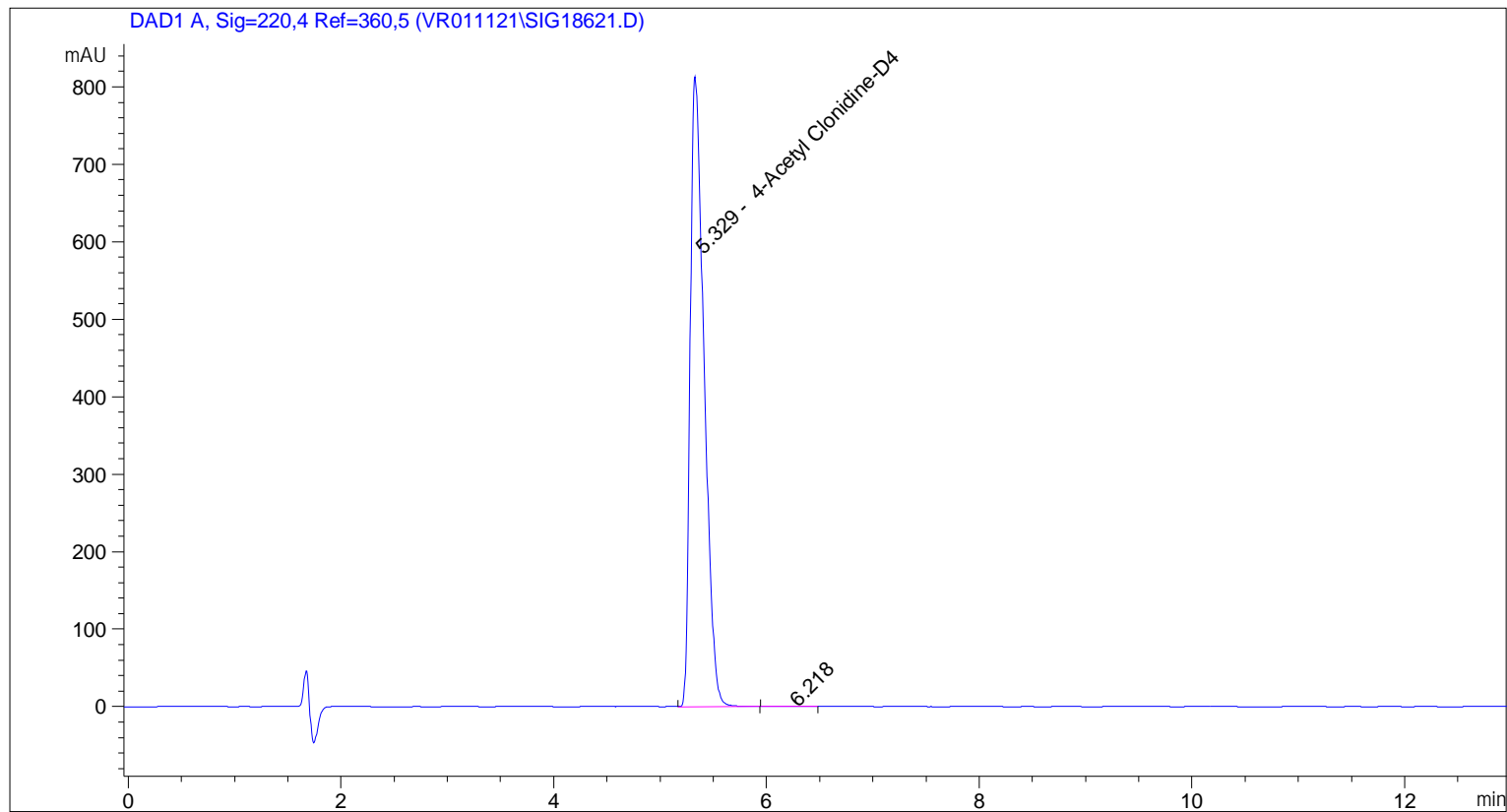
Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	5.312	BV	0.1488	9545.71387	99.9127	4-Acetyl Clonidine-D4
2	6.074	VB	0.2085	8.34319	0.0873	?

Totals : 9554.05705

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\*\*\* End of Report \*\*\*

=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 14  
Injection Date : 9/13/2021 12:50:29 PM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR091321\_139.M  
Last changed : 9/13/2021 12:49:32 PM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR\_091321\_139PM.M  
Last changed : 9/13/2021 1:03:59 PM by vrusu



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Area Percent Report  
=====

Sorted By : Signal  
Calib. Data Modified : 9/13/2021 12:51:37 PM  
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	5.329	BB	0.1399	7380.92822	99.9151	4-Acetyl Clonidine-D4
2	6.218	BB	0.2039	6.27193	0.0849	?

Totals : 7387.20016

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\*\*\* End of Report \*\*\*