

<b>Name:</b>	Tizanidine-D4
<b>Lot#:</b>	GR-9-213
<b>Test Date:</b>	02/09/2022 (re-test date: 02/09/2027)
<b>CAS No.:</b>	1188331-19-2
<b>MF:</b>	C <sub>9</sub> H <sub>4</sub> D <sub>4</sub> ClN <sub>5</sub> S
<b>MW:</b>	257.74
<b>Appearance:</b>	Yellow 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 peak at m/z = 258.74, 260.74 [M+H] <sup>+</sup> ), shows the pattern of the monochloro-substituted compound
<b>Storage</b>	Long term store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 02/09/2022



Viorica Rusu, QC/QA Manager

7.59  
7.57  
7.46  
7.45

6.25

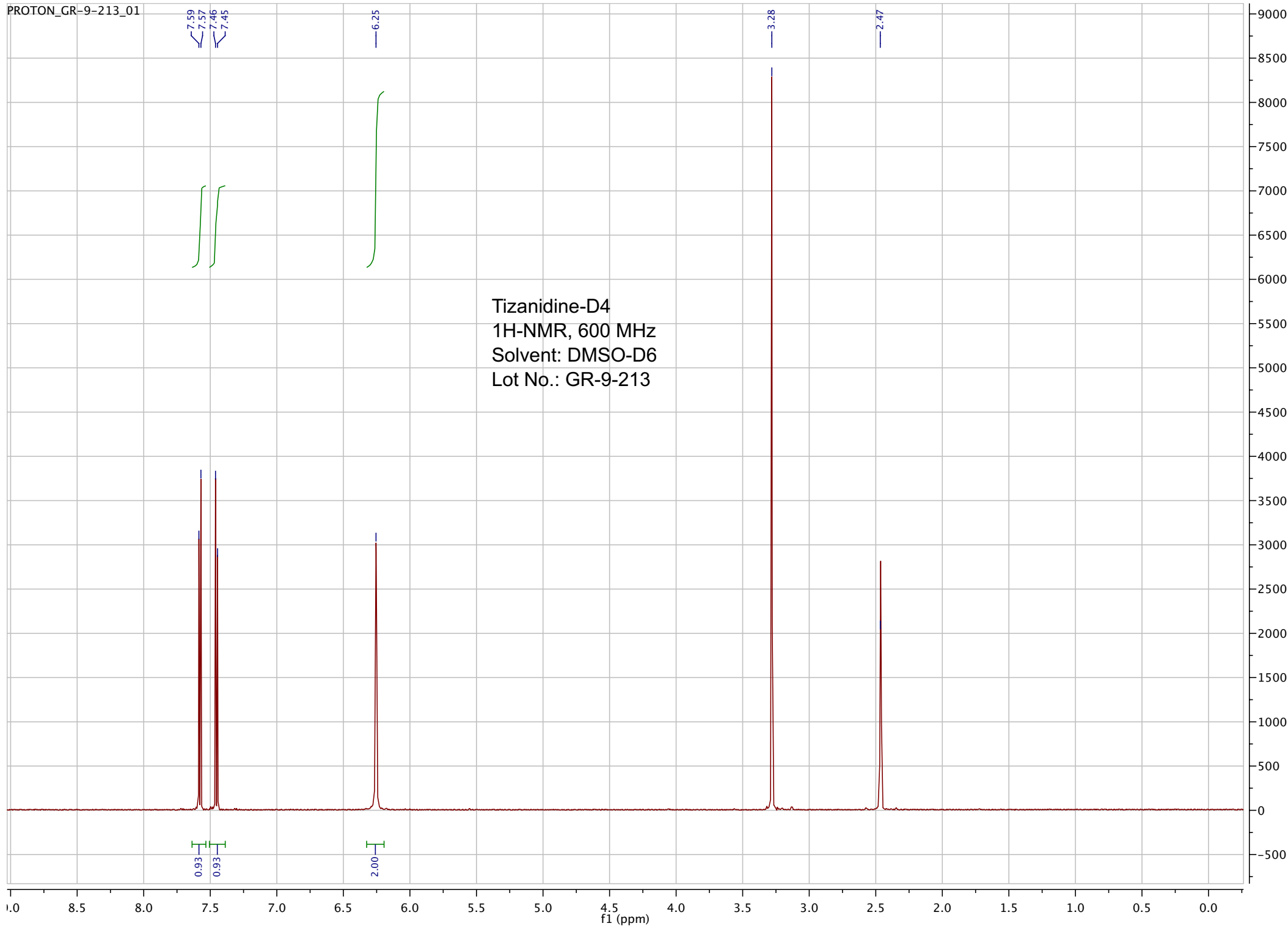
3.28

2.47

Tizanidine-D4  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-9-213

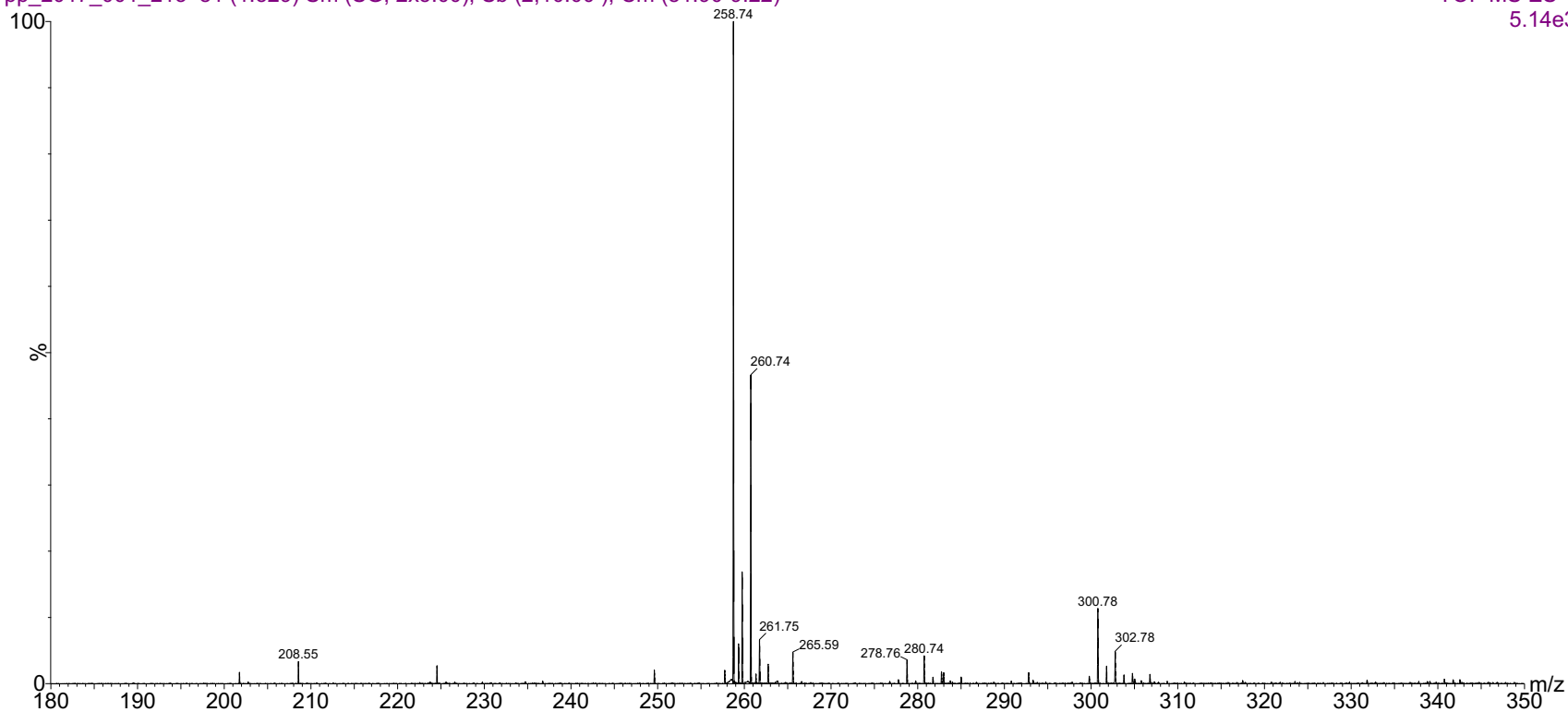
0.93  
0.93

2.00



pp\_2017\_001\_213 81 (1.529) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (81:90-9:22)

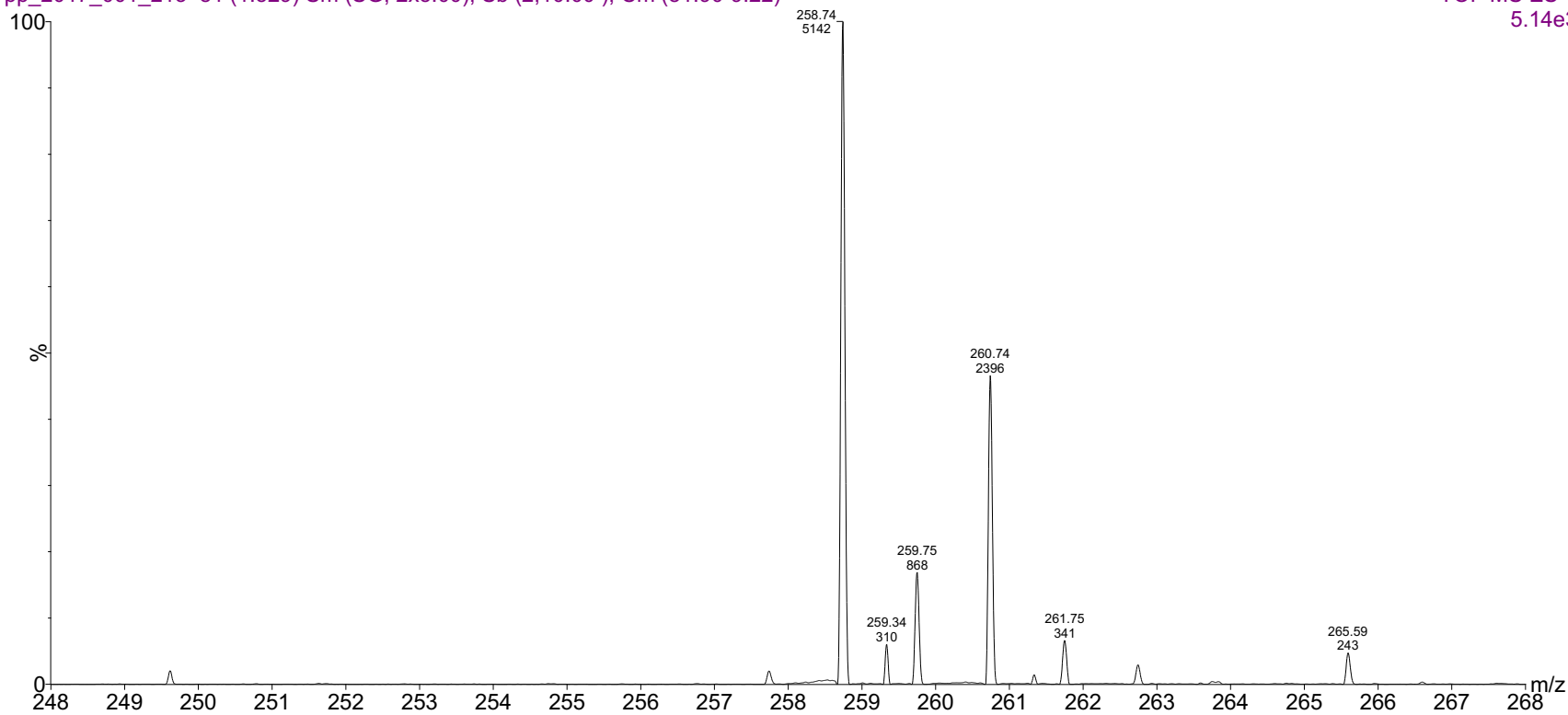
TOF MS ES+  
5.14e3



ESI-MS spectrum for sample GR-9-213. Shows monoisotopic [M+H]<sup>+</sup> mass.

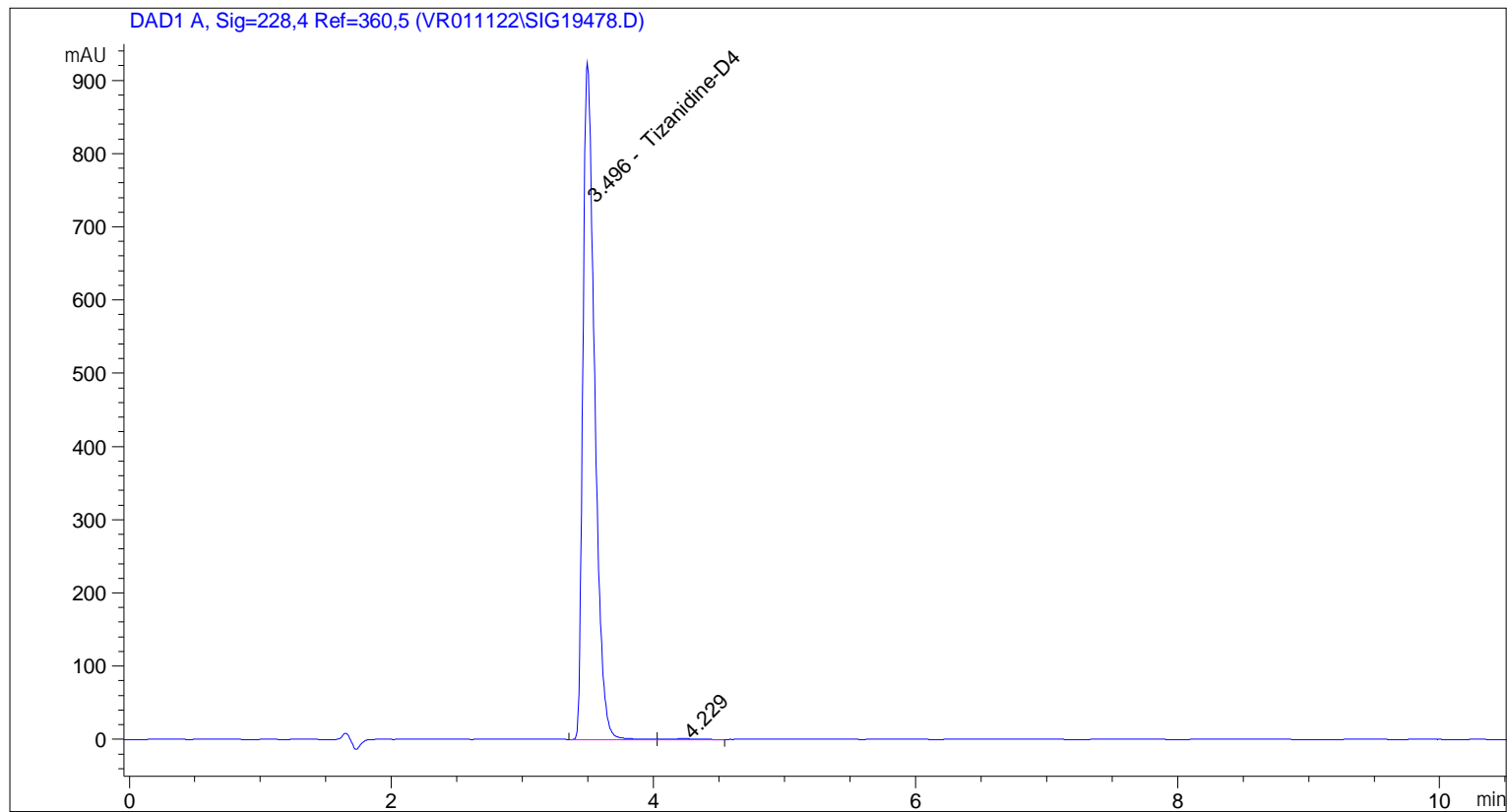
pp\_2017\_001\_213 81 (1.529) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (81:90-9:22)

TOF MS ES+  
5.14e3



Expansion of above with intensity labels.

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Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 91  
Injection Date : 2/9/2022 9:54:55 AM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR020922\_213.M  
Last changed : 2/9/2022 9:54:04 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR020922\_277PM.M  
Last changed : 2/9/2022 10:26:07 AM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : 2/9/2022 10:24:56 AM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

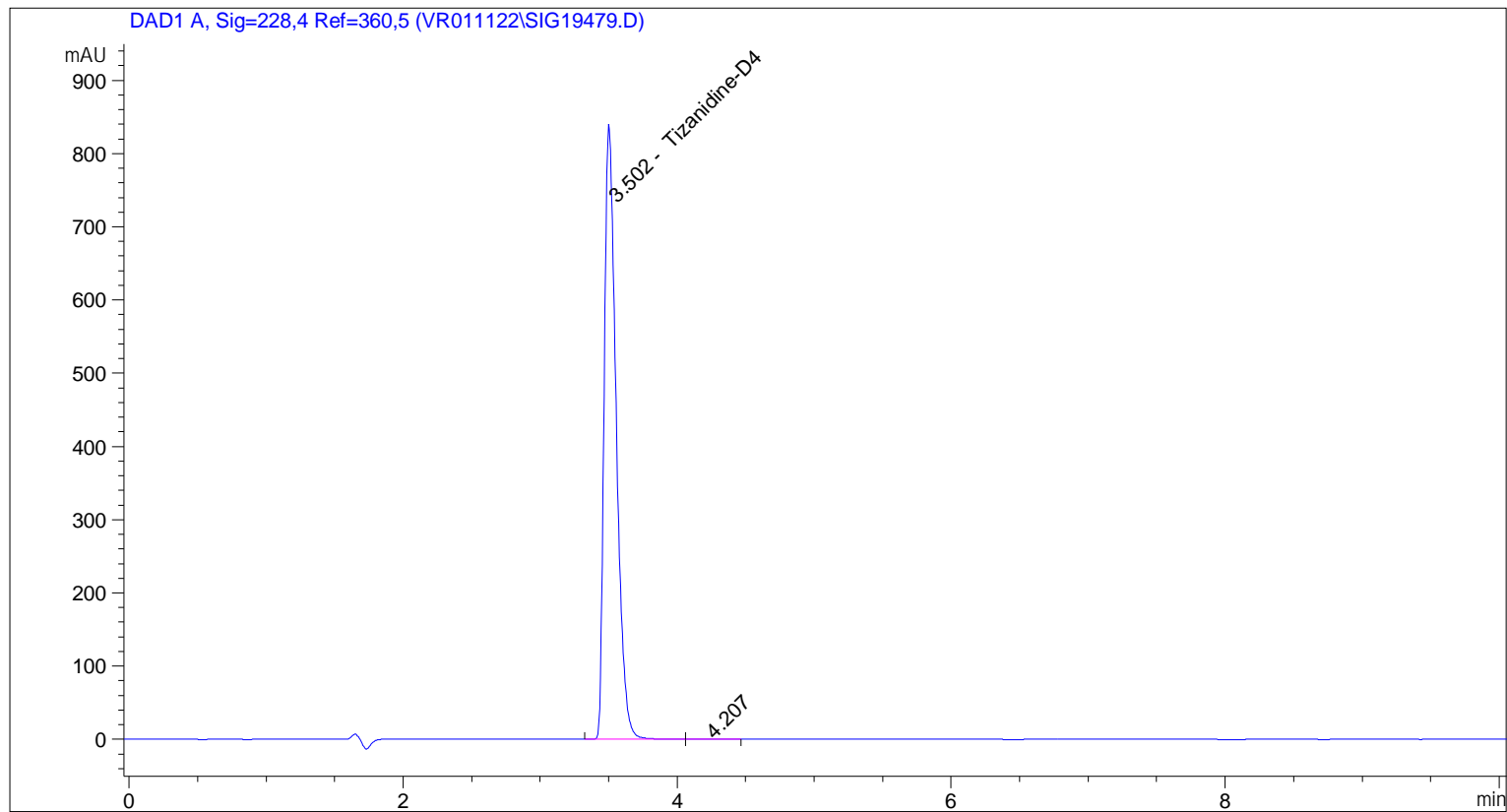
Signal 1: DAD1 A, Sig=228,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.496	BV	0.0968	5770.35205	99.7842	Tizanidine-D4
2	4.229	VB	0.1289	12.47656	0.2158	?

Totals : 5782.82861

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

=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 92  
Injection Date : 2/9/2022 10:07:09 AM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR020922\_213.M  
Last changed : 2/9/2022 10:06:17 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR020922\_277PM.M  
Last changed : 2/9/2022 10:26:07 AM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : 2/9/2022 10:24:56 AM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=228,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.502	BV	0.0953	5140.01172	99.9340	Tizanidine-D4
2	4.207	VB	0.1941	3.39440	0.0660	?

Totals : 5143.40612

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