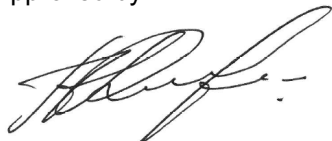


Name:	R-(+)-Warfarin-D5
Lot#:	GR-12-083
Test Date:	12/04/2023 (re-test date: 12/04/2028)
CAS No.:	773005-79-1
MF:	C ₁₉ H ₁₁ D ₅ O ₄
MW:	313.36
Appearance:	Beige solid
Purity:	100% by CP HPLC (average of two sample preparations); 100% ee; 99% atom D
¹H-NMR:	Conforms
MS-ESI (-)	Conforms (shows peak at m/z = 312.22 [M-H] ⁻)
Storage	Store at -18°C in a dry place away from direct sunlight

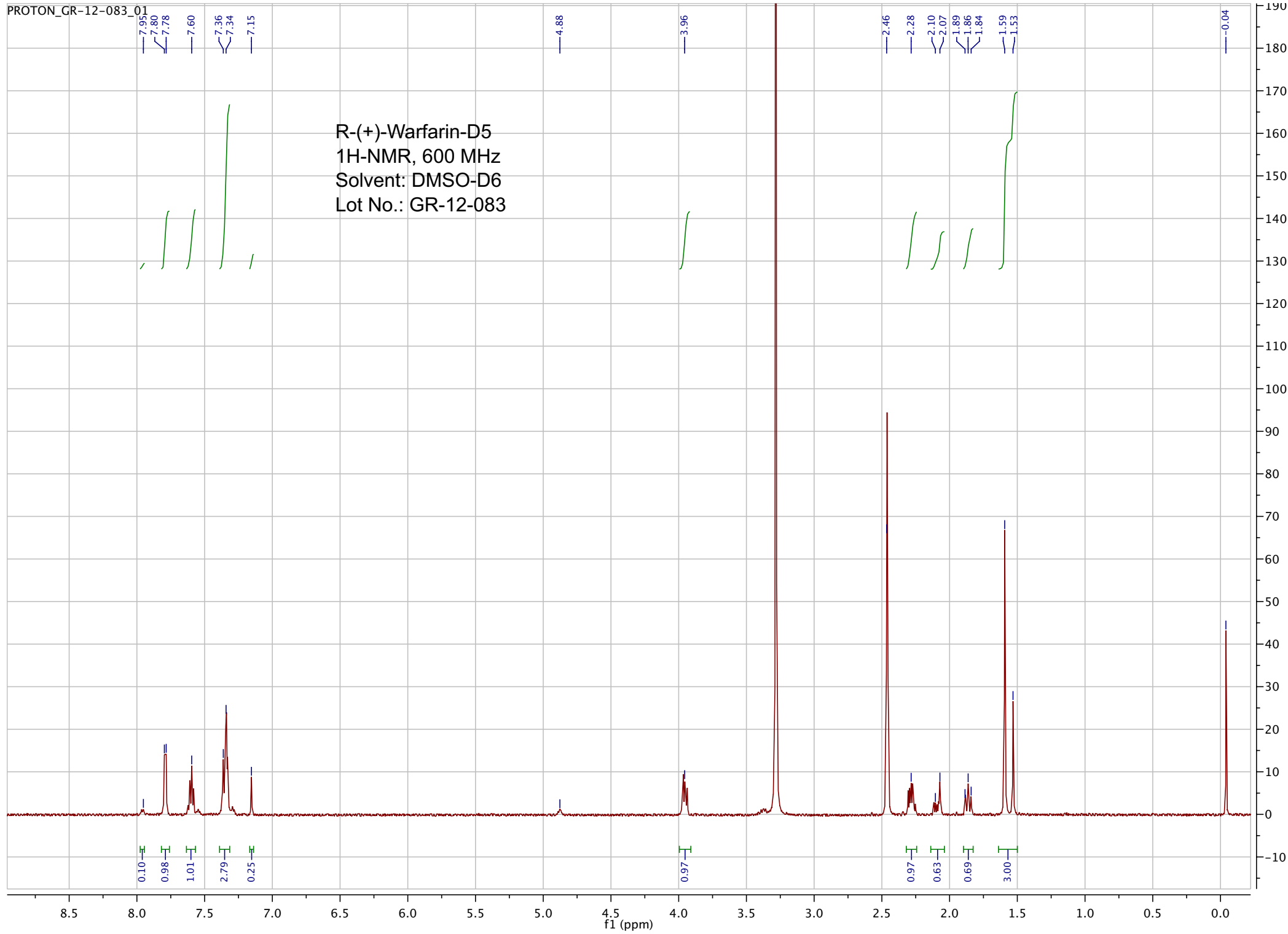
Approved by:

Date: 12/04/2023



Viorica Rusu, QC/QA Manager

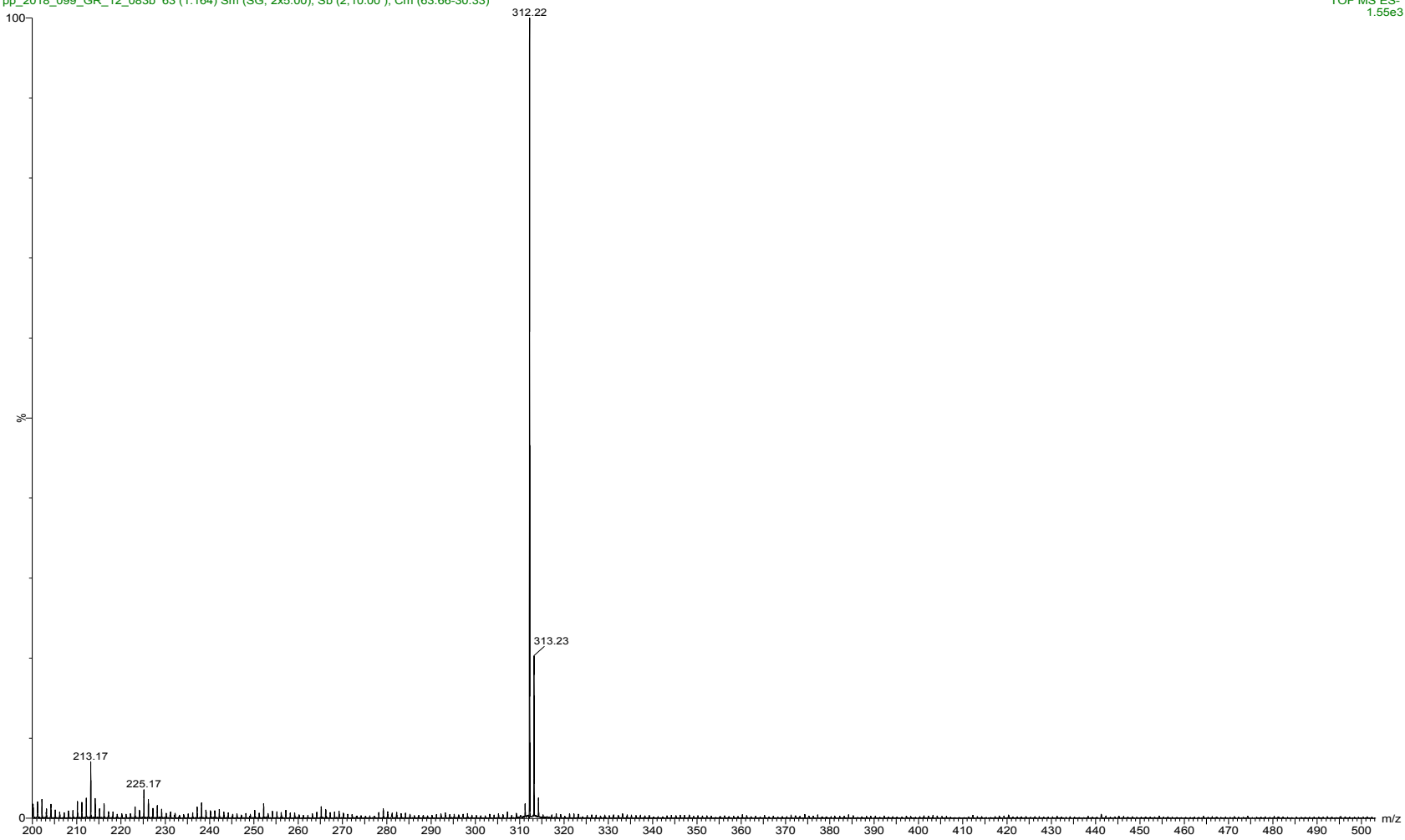
R-(+)-Warfarin-D5
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-12-083



pp_2018_099_GR_12_083b 63 (1.164) Sm (SG, 2x5.00); Sb (2,10.00); Cm (63:66-30:33)

7.00000000

18-Sep-2018, 15:58:35
TOF MS ES-
1.55e3



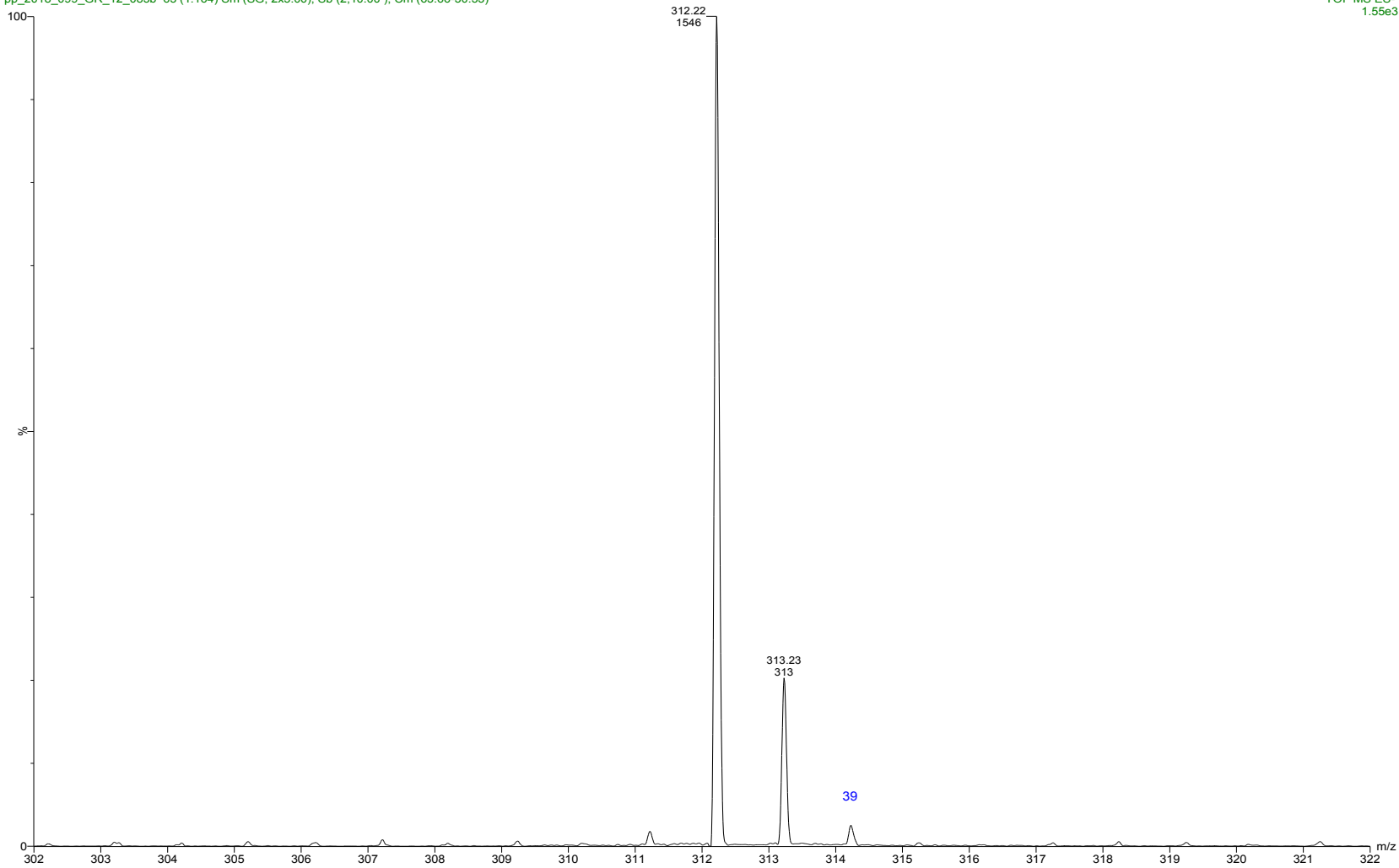
ESI-MS spectrum for sample GR-12-083. Shows monoisotopic $[M-H]^-$ mass.

pp_2018_099_GR_12_083b 63 (1.164) Sm (SG, 2x5.00); Sb (2,10.00); Cm (63:66-30:33)

7.00000000

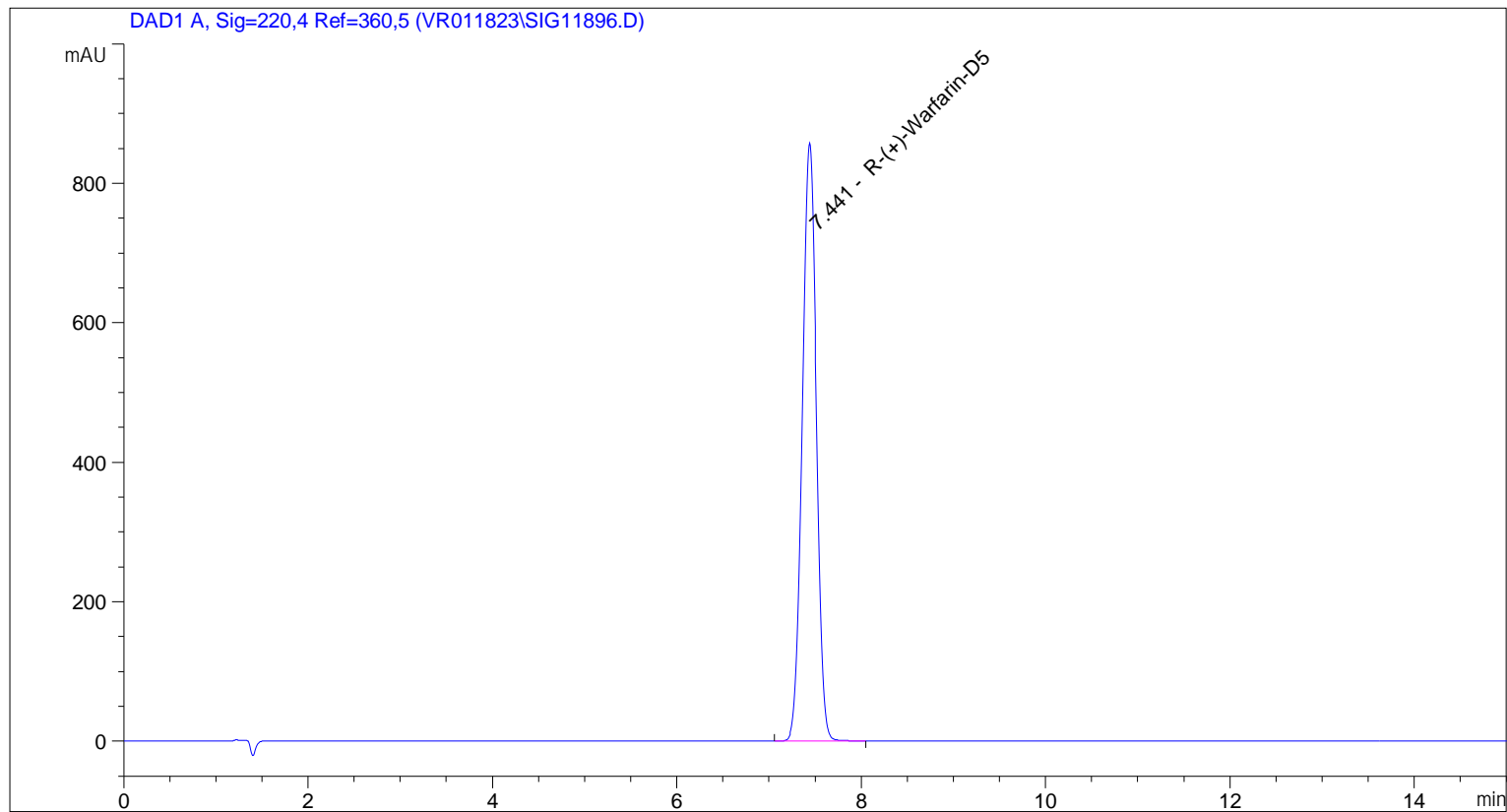
18-Sep-2018, 16:58:35

TOF MS ES-
1.55e3



Expansion of above showing intensity ratios.

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 87
Injection Date : 12/4/2023 1:54:32 PM
Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR120423_083.M
Last changed : 12/4/2023 1:53:37 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR120423_083PM.M
Last changed : 12/4/2023 2:36:44 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 12/4/2023 2:36:22 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

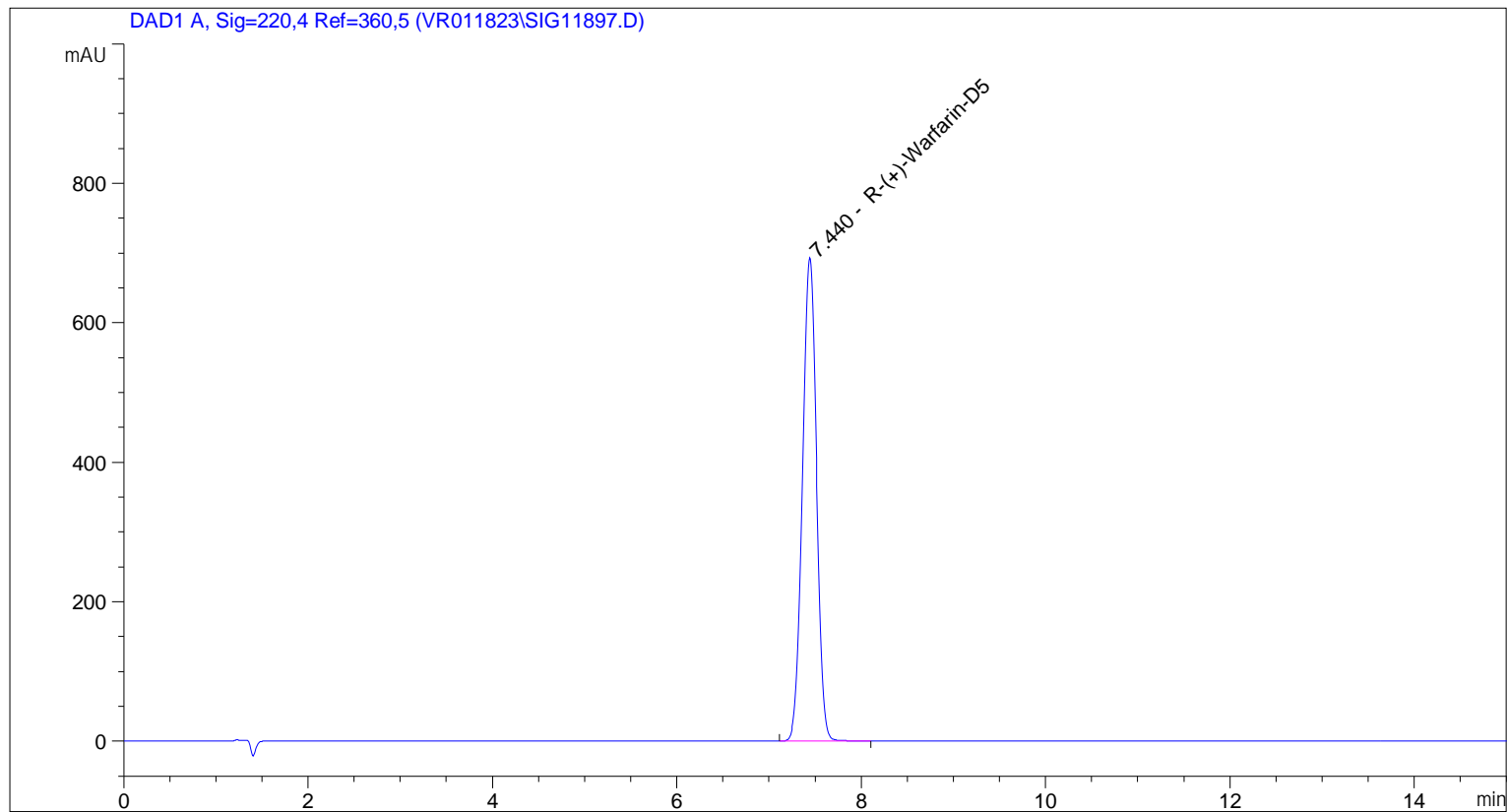
Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.441	BB	0.1659	9108.36523	100.0000	R-(+)-Warfarin-D5

Totals : 9108.36523

=====
*** End of Report ***

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 88
Injection Date : 12/4/2023 2:11:34 PM
Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR120423_083.M
Last changed : 12/4/2023 2:10:39 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR120423_083PM.M
Last changed : 12/4/2023 2:36:44 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 12/4/2023 2:36:22 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

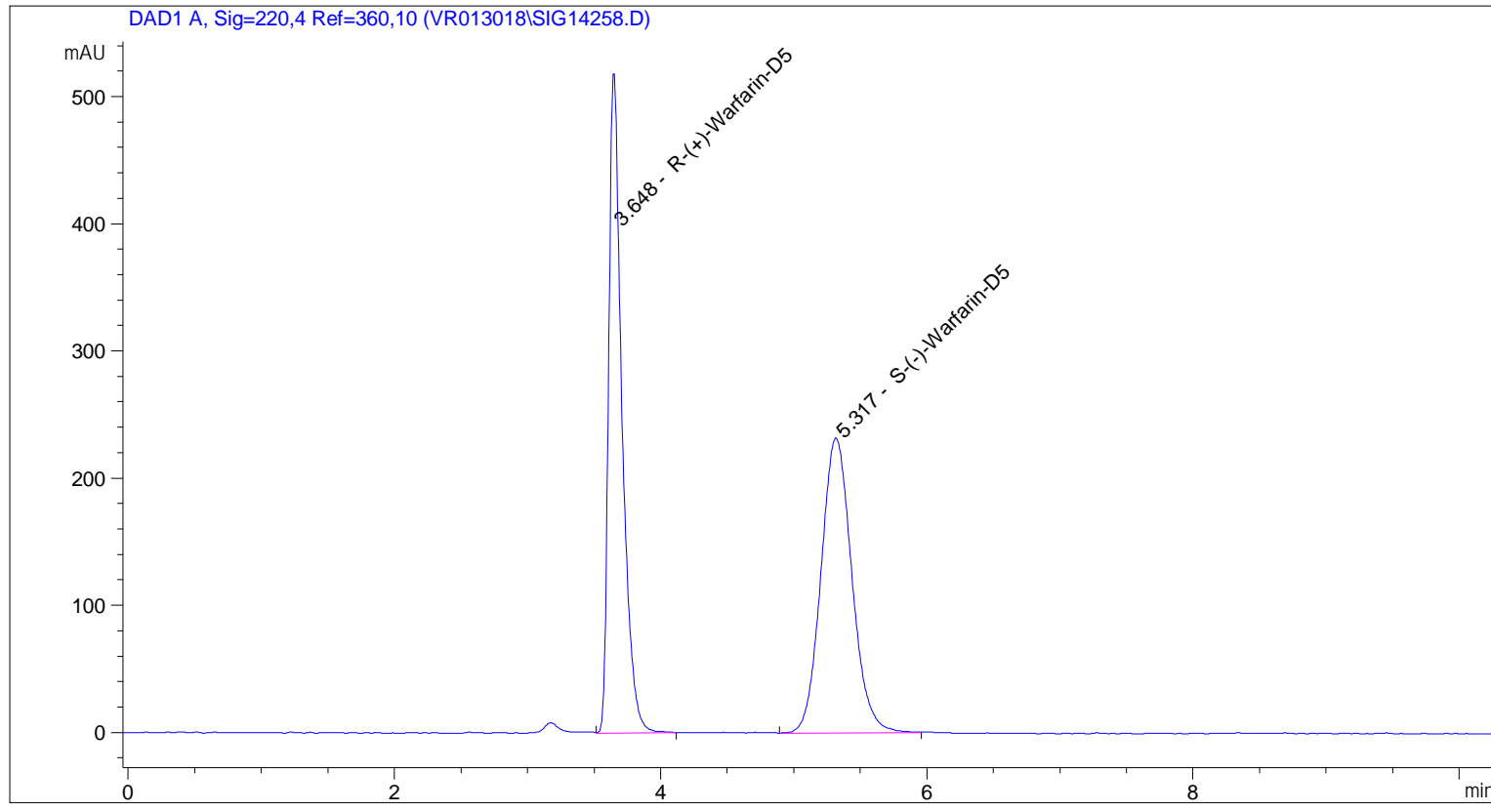
Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.440	BB	0.1654	7333.01465	100.0000	R-(+)-Warfarin-D5

Totals : 7333.01465

=====
*** End of Report ***

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 6
Injection Date : 9/11/2018 4:48:12 PM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR091018_083.M
Last changed : 9/11/2018 4:46:37 PM by vrusu
(modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\VR091118_085PM.M
Last changed : 9/11/2018 10:50:21 AM by vrusu



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

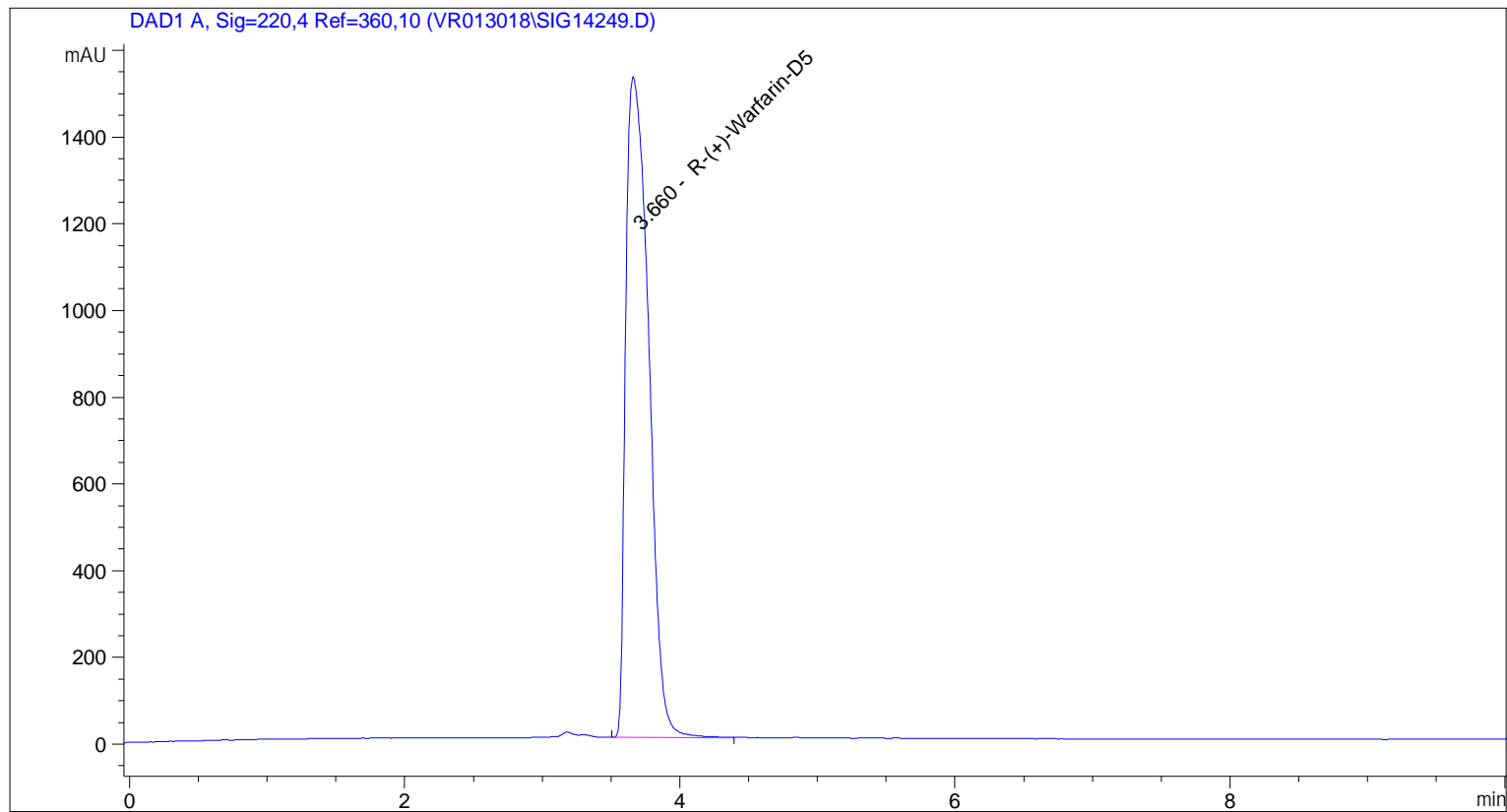
Sorted By : Signal
Calib. Data Modified : Tuesday, September 11, 2018 10:50:02 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,10

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.648	VV	0.1034	3625.84375	49.1348	R-(+)-Warfarin-D5
2	5.317	BV	0.2507	3753.53687	50.8652	S-(-)-Warfarin-D5

Totals : 7379.38062

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 2
Injection Date : 9/10/2018 2:53:40 PM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR091018_083.M
Last changed : 9/10/2018 2:51:15 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR091118_083PM.M
Last changed : 9/11/2018 10:44:31 AM by vrusu



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

Sorted By : Signal
Calib. Data Modified : Tuesday, September 11, 2018 10:44:23 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,10

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.660	BV	0.1910	1.76283e4	100.0000	R-(+)-Warfarin-D5
2	5.324		0.0000	0.00000	0.0000	S(-)-Warfarin-D5

Totals : 1.76283e4

1 Warnings or Errors :

Sample Name: GR-12-083

Warning : Calibrated compound(s) not found

=====

*** End of Report ***