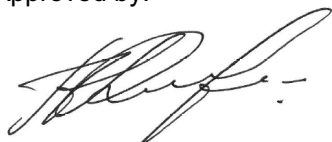


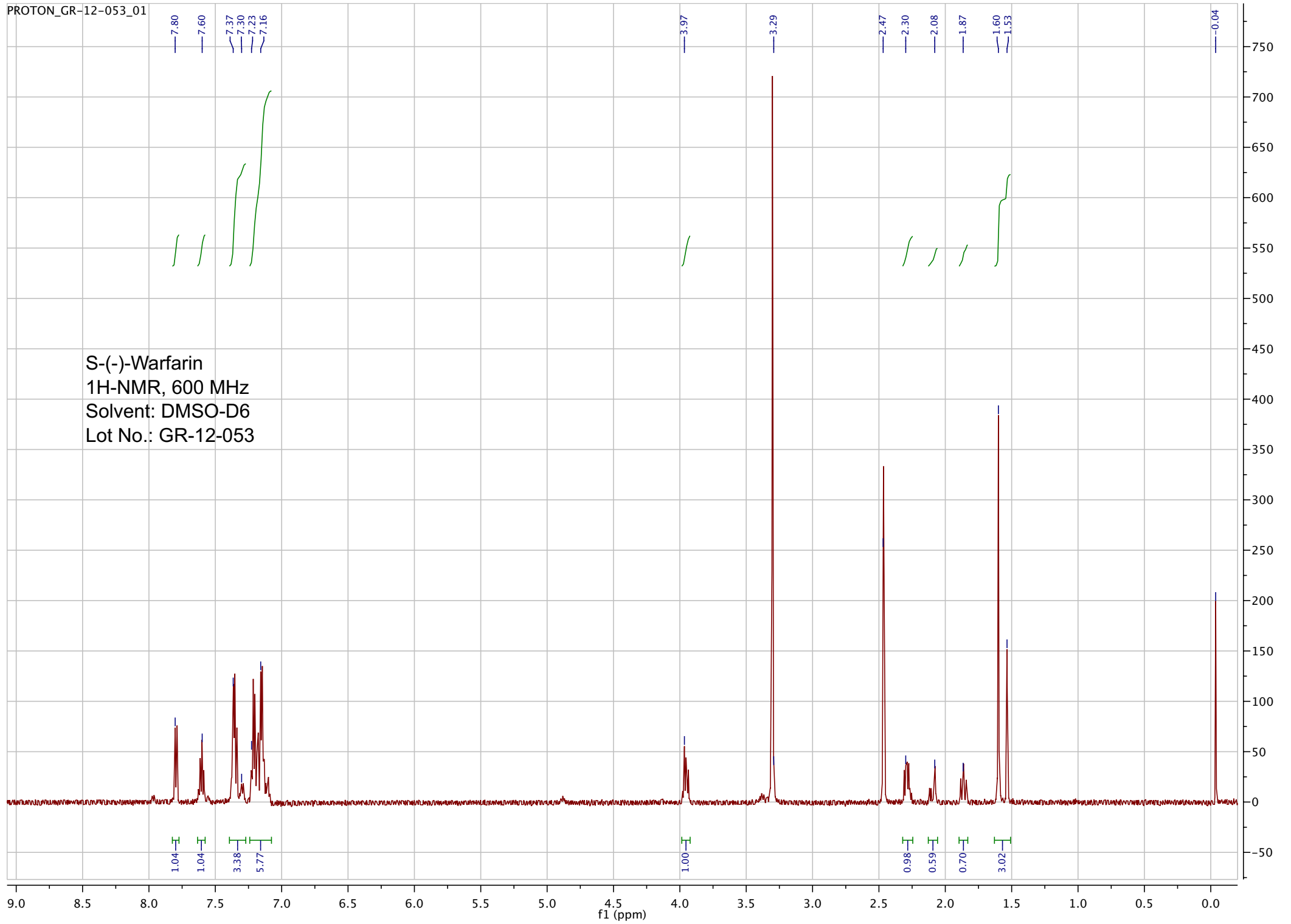
Name:	S-(-)-Warfarin
Lot#:	GR-12-053
Test Date:	07/24/2023 (re-test date: 07/24/2028)
CAS No.:	5543-57-7
MF:	C ₁₉ H ₁₆ O ₄
MW:	308.33
Appearance:	White Solid
Purity:	100% by HPLC (average of two sample preparations); 99.9% ee by chiral HPLC
¹H-NMR:	Conforms
MS-ESI (-)	Conforms (shows peak at m/z = 307.11 [M-H] ⁻)
Storage	Store at 0-5°C in a dry place away from direct sunlight

Approved by:

Date: 07/24/2023



Viorica Rusu, QC/QA Manager

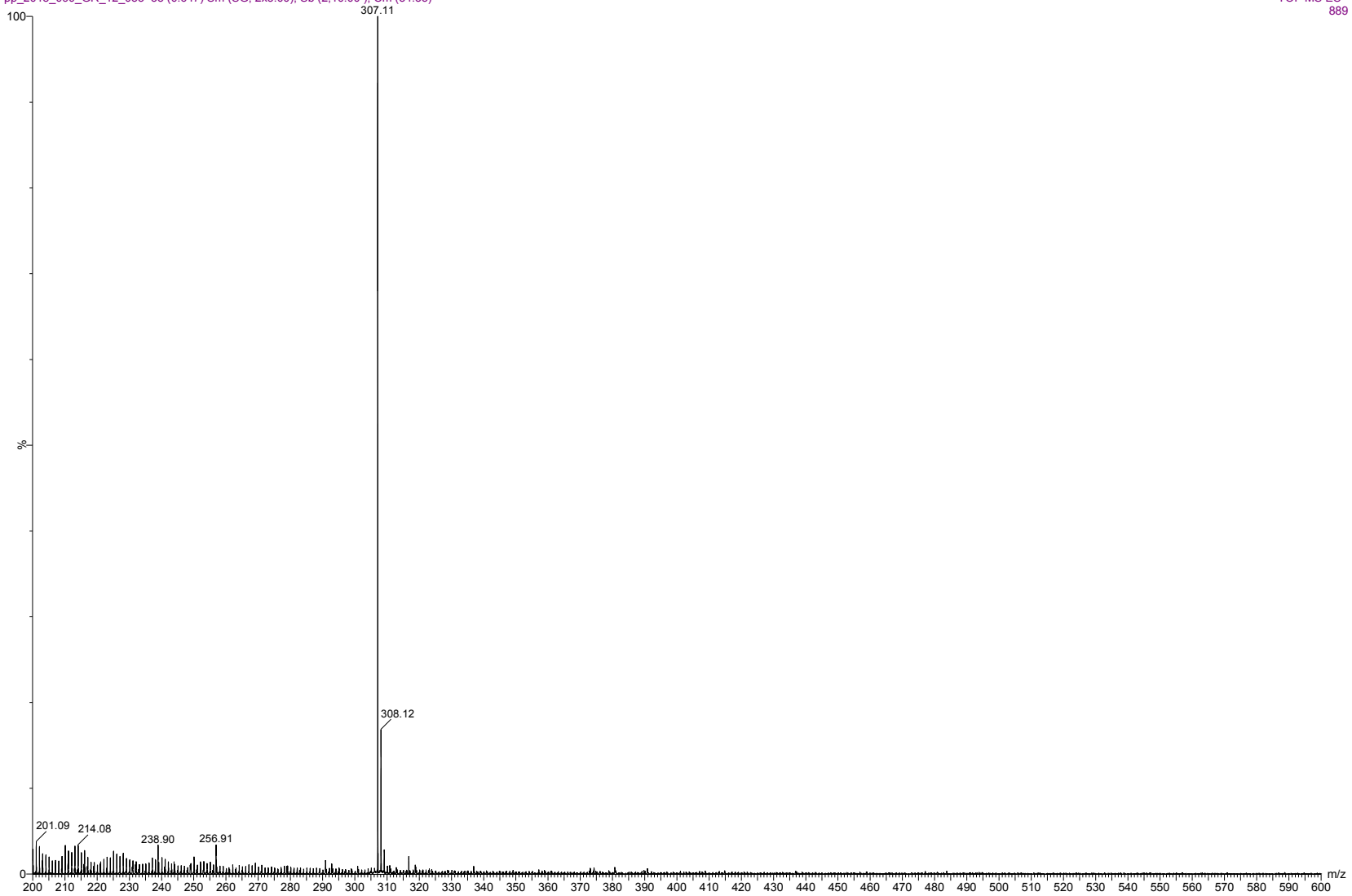


pp_2018_090_GR_12_053 35 (0.647) Sm (SG, 2x5.00); Sb (2,10.00); Cm (34:35)

7.00000000

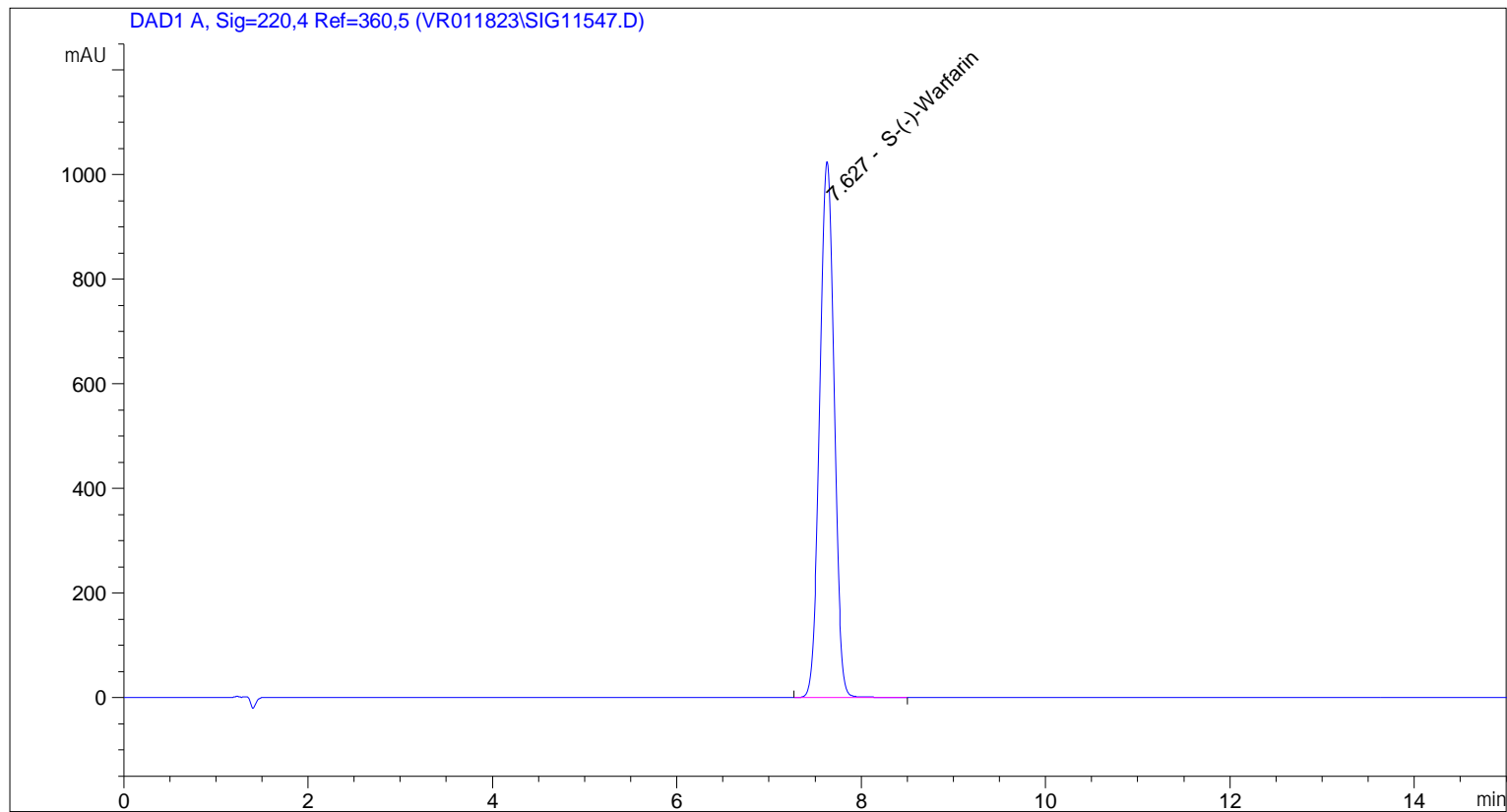
21-Aug-2018, 16:40:45

TOF MS ES-
889



Raw ESI-MS spectrum for sample GR-12-053. Shows monoisotopic [M-H]- mass.

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 92
Injection Date : 7/24/2023 9:28:32 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR072423_053.M
Last changed : 7/24/2023 9:27:28 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR072423_053PM.M
Last changed : 7/24/2023 12:22:57 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 7/24/2023 12:21:40 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

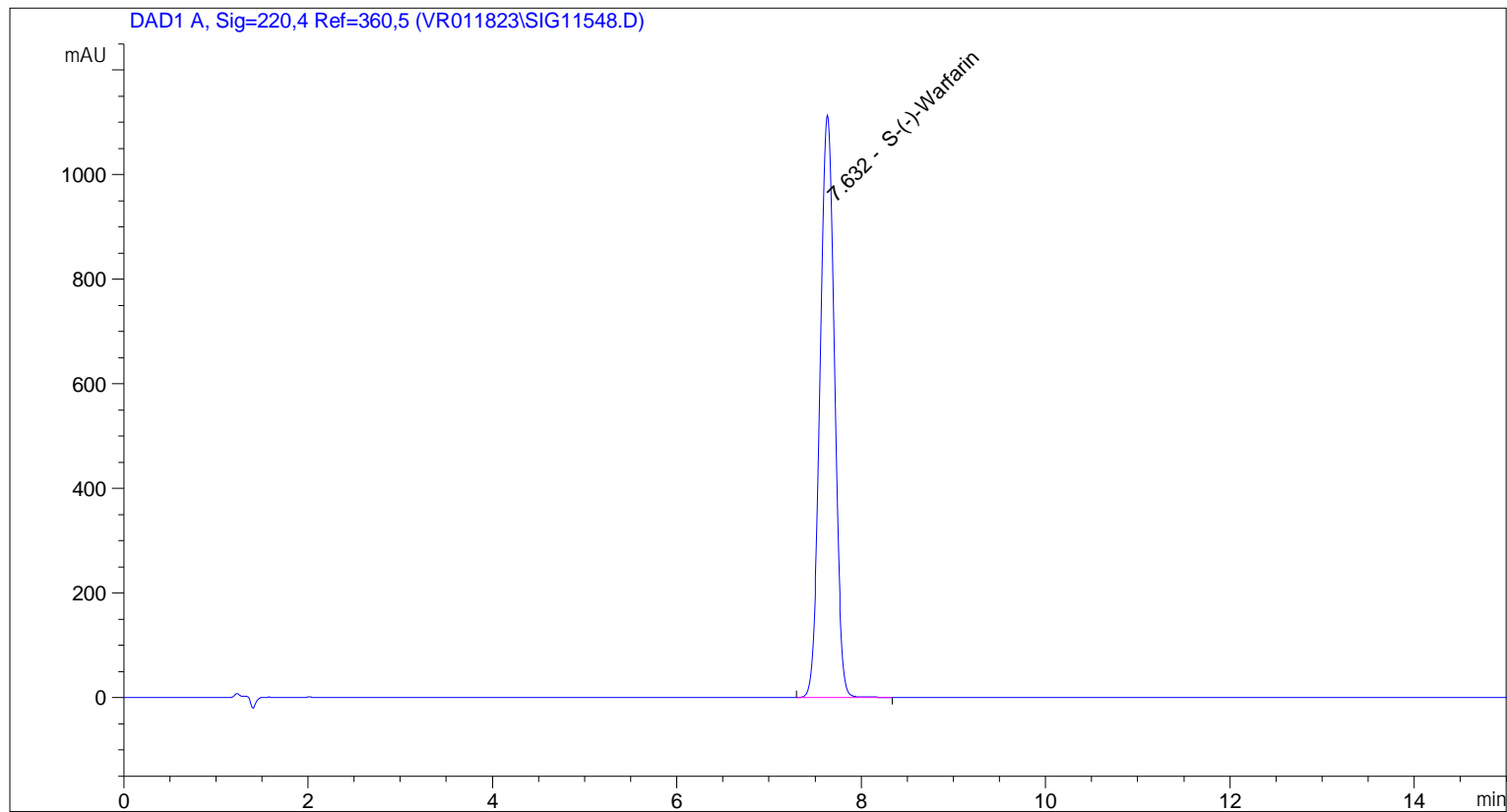
Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.627	BB	0.1704	1.11048e4	100.0000	S(-)-Warfarin

Totals : 1.11048e4

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

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 93
Injection Date : 7/24/2023 9:45:42 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR072423_053.M
Last changed : 7/24/2023 9:44:34 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR072423_053PM.M
Last changed : 7/24/2023 12:22:57 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 7/24/2023 12:21:40 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

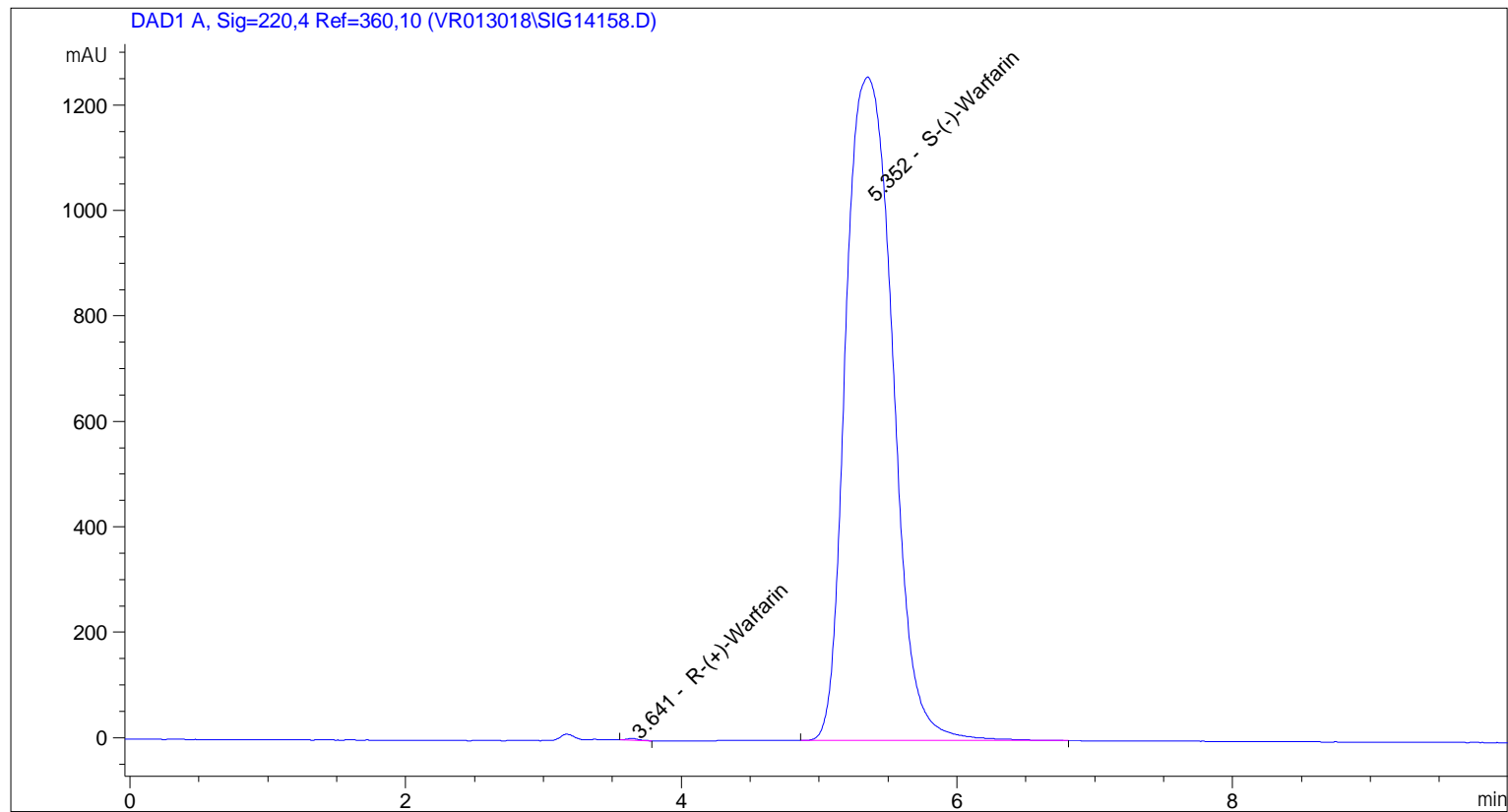
Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.632	BB	0.1683	1.20471e4	100.0000	S(-)-Warfarin

Totals : 1.20471e4

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

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 31
Injection Date : 8/14/2018 1:53:59 PM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR081318_049.M
Last changed : 8/14/2018 1:47:52 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081418_049PM.M
Last changed : 8/14/2018 2:28:43 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 8/14/2018 2:28:17 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

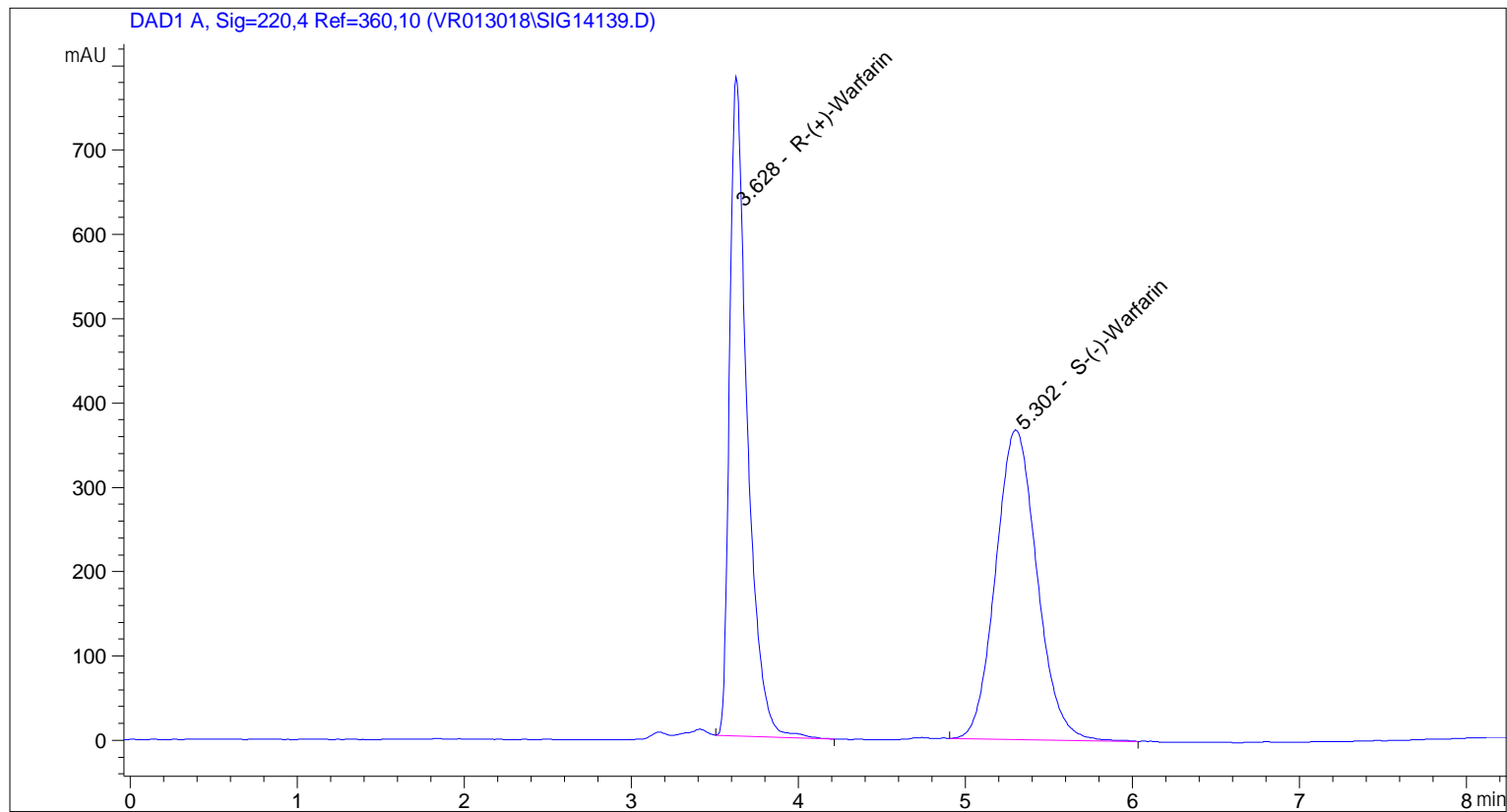
Signal 1: DAD1 A, Sig=220,4 Ref=360,10

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.641	BB	0.0795	19.60526	0.0658	R-(+)-Warfarin
2	5.352	BB	0.3380	2.97763e4	99.9342	S-(-)-Warfarin

Totals : 2.97959e4

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

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 16
Injection Date : 8/9/2018 10:43:43 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR080918_047.M
Last changed : 8/9/2018 10:42:03 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081418_047PM.M
Last changed : 8/14/2018 3:30:03 PM by vrusu



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Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 8/14/2018 2:28:17 PM
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	3.628	BB	0.1077	5740.59619	47.6524	R-(+)-Warfarin
2	5.302	BB	0.2625	6306.22412	52.3476	S-(-)-Warfarin

Totals : 1.20468e4

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