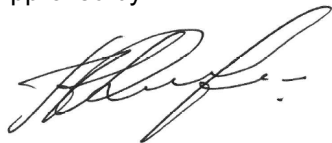


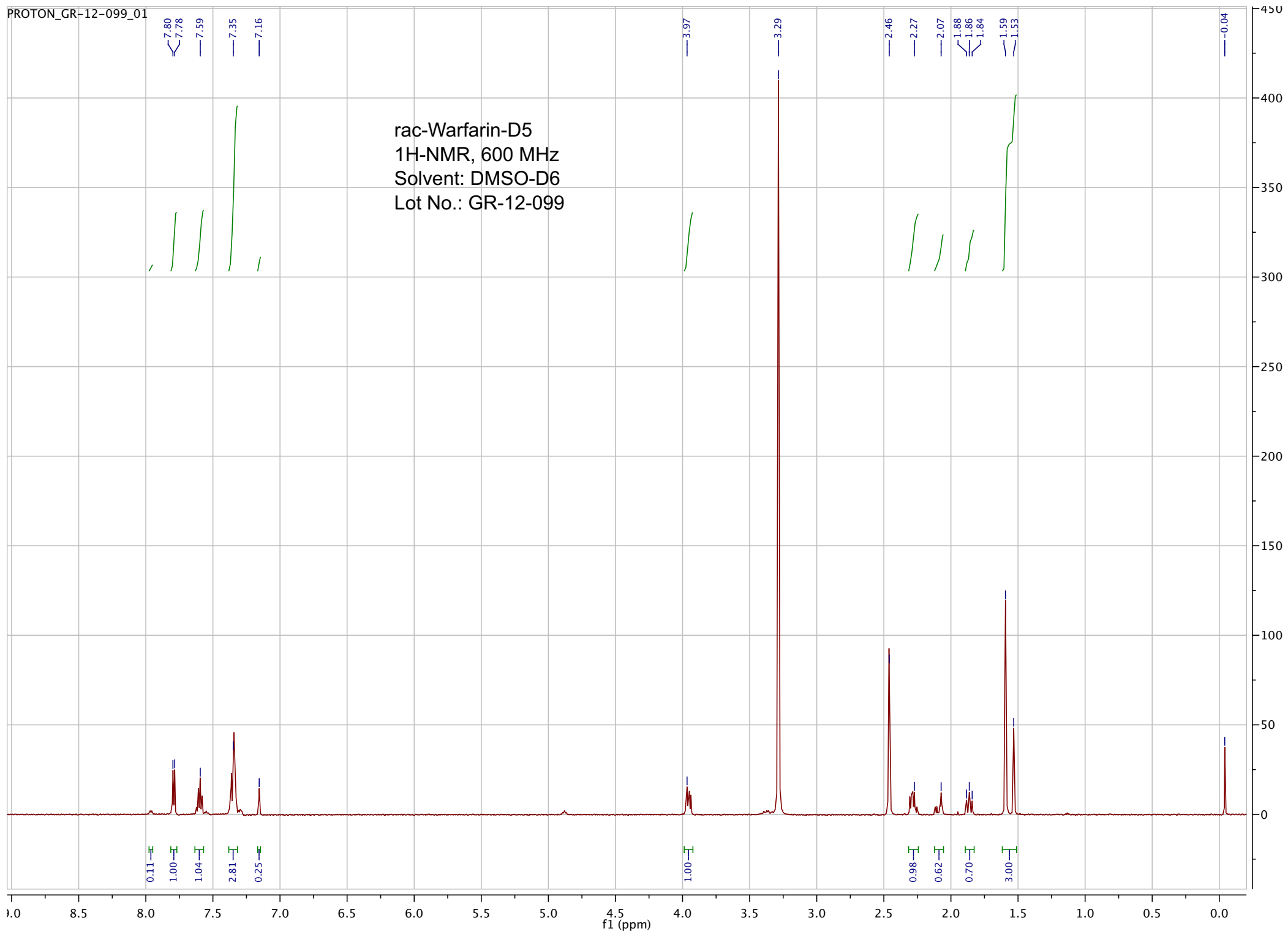
<b>Name:</b>	rac-Warfarin-D5
<b>Lot#:</b>	GR-12-099
<b>Test Date:</b>	02/09/2024 (re-test date: 02/09/2029)
<b>CAS No.:</b>	75472-93-4
<b>MF:</b>	C <sub>19</sub> H <sub>11</sub> D <sub>5</sub> O <sub>4</sub>
<b>MW:</b>	313.36
<b>Appearance:</b>	Off-White solid
<b>Purity:</b>	99.9% by HPLC (average of two sample preparations); 99% atom D
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (-)</b>	Conforms (shows peak at m/z = 312.22 [M-H] <sup>-</sup> )
<b>Storage</b>	Store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 02/09/2024



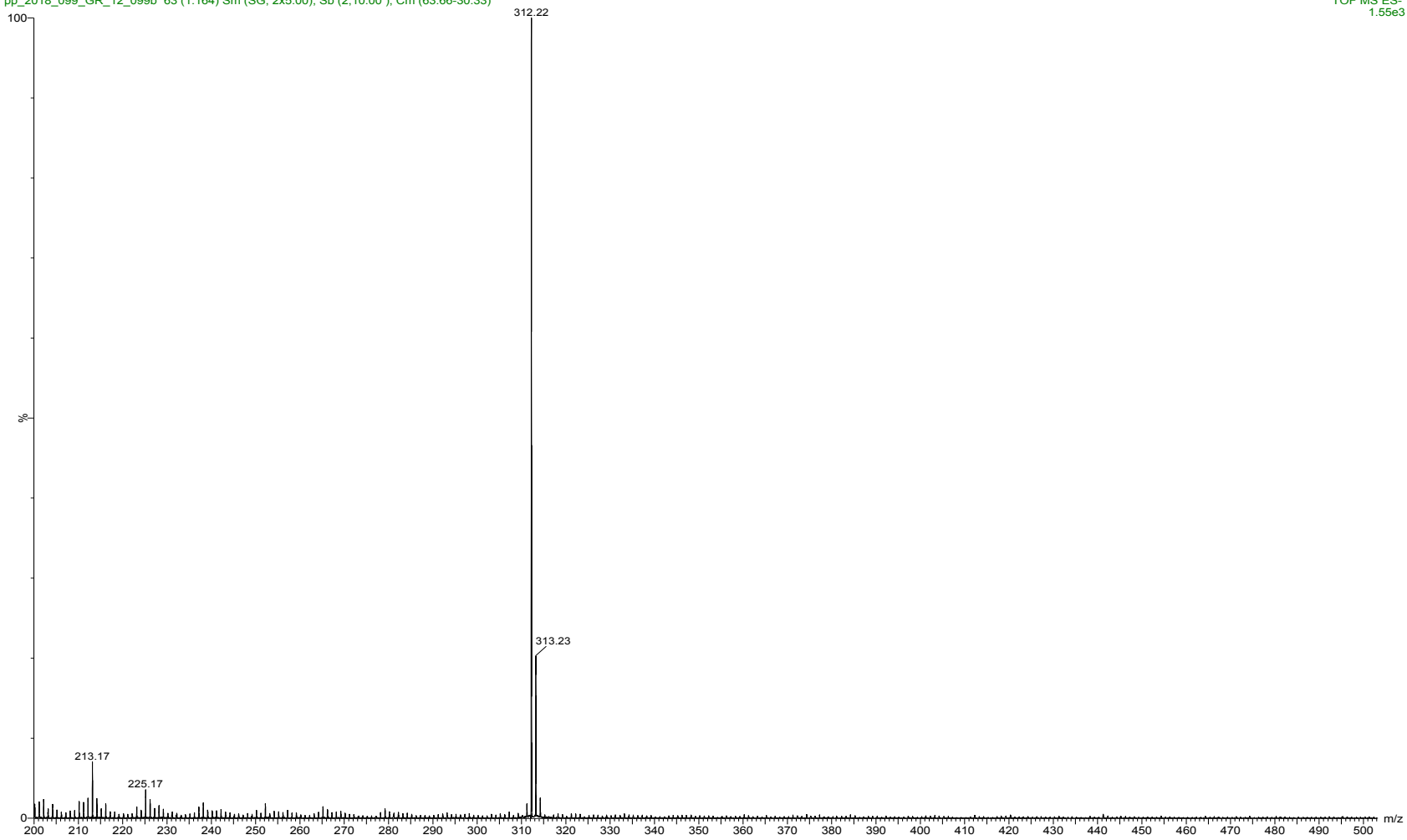
Viorica Rusu, QC/QA Manager



pp\_2018\_099\_GR\_12\_099b 63 (1.164) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (63:66-30:33)

7.00000000

18-Sep-2018, 16:06:17  
TOF MS ES-  
1.55e3



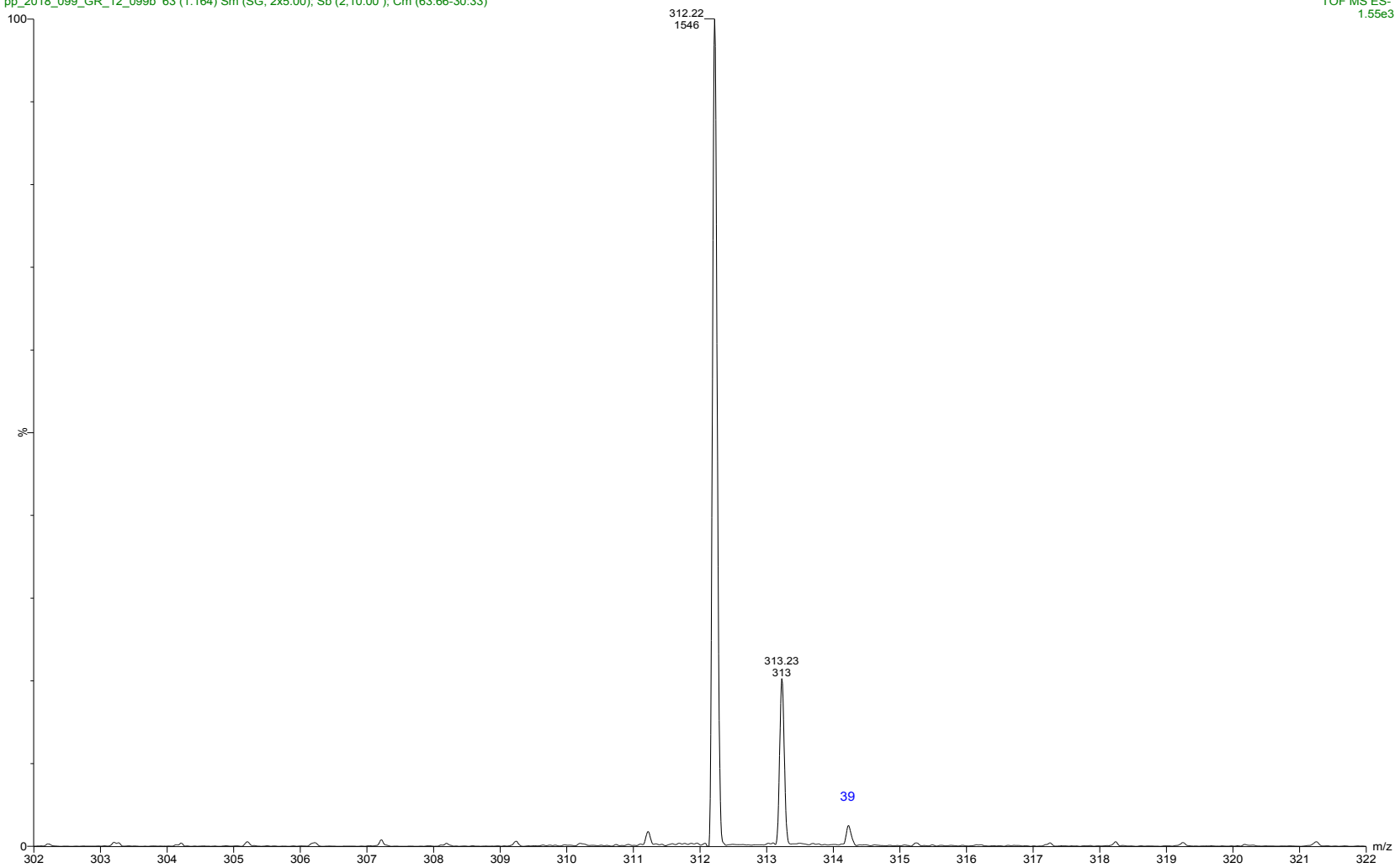
ESI-MS spectrum for sample GR-12-099. Shows monoisotopic [M-H]- mass.

pp\_2018\_099\_GR\_12\_099b 63 (1.164) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (63:66-30:33)

7.00000000

18-Sep-2018, 16:06:17

TOF MS ES-  
1.55e3



Expansion of above showing intensity ratios.



Sample Name: GR-12-099 spl-2

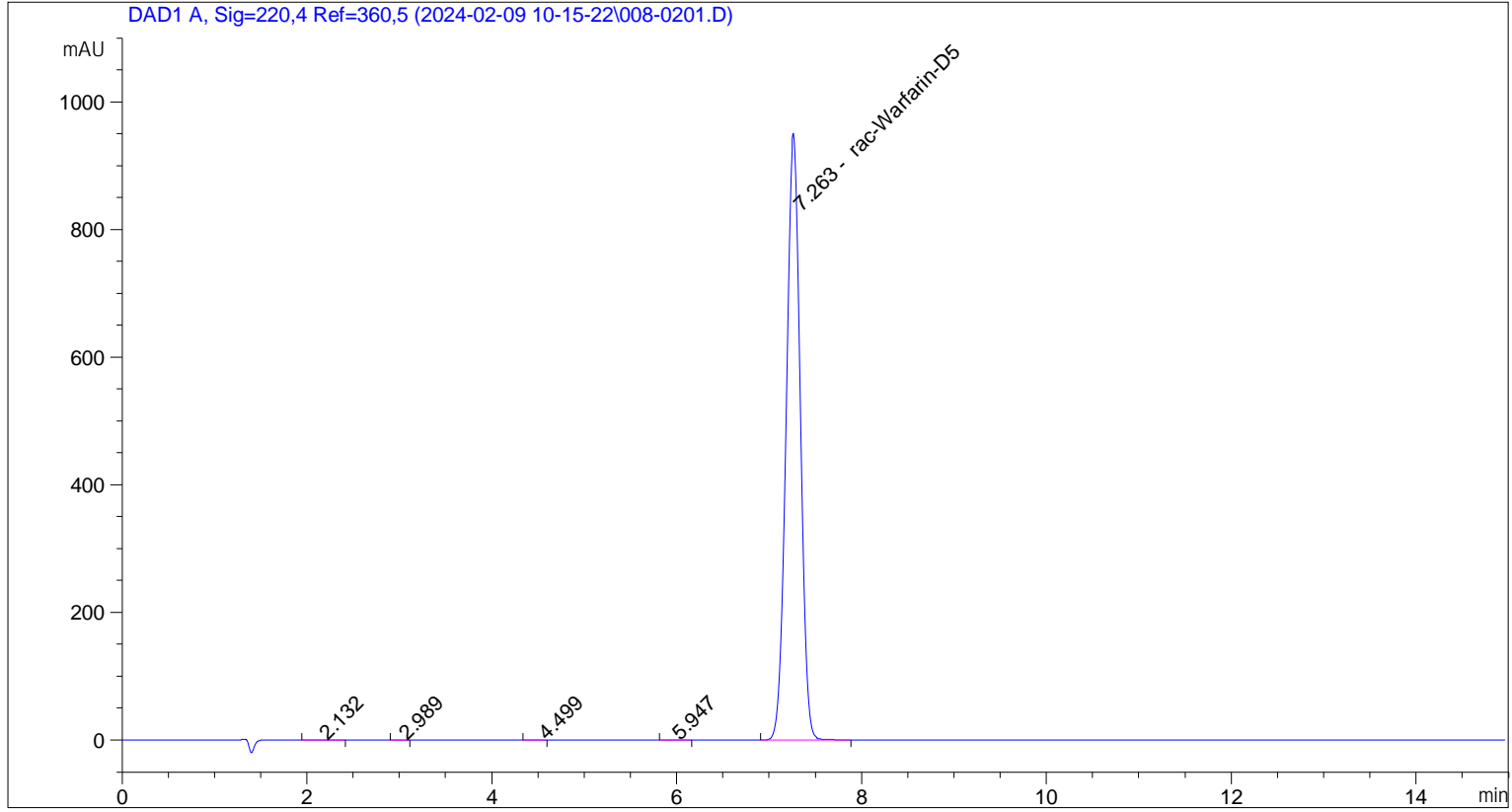
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.132	BV	0.0768	1.54479	0.0140	?
2	2.292	VB	0.0871	1.51889	0.0138	?
3	4.502	BB	0.1291	3.71677	0.0337	?

Uncalib. totals :                   6.78045 6.151e-2

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

Sample Name: GR-12-099

```
=====
Acq. Operator   : vrusu                               Seq. Line :    2
Acq. Instrument : Instrument 1                         Location  : Vial 8
Injection Date  : 2/9/2024 10:32:51 AM                Inj       :    1
                                                    Inj Volume: 5.0 µl
Acq. Method     : C:\CHEM32\1\DATA\2024-02-09 10-15-22\VR020924_099.M
Last changed    : 2/9/2024 10:14:55 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020924_099_PM.M
Last changed    : 2/9/2024 12:38:22 PM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      2/9/2024 12:35:02 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not 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	7.263	BB	0.1685	1.01399e4	99.9043	rac-Warfarin-D5

Totals : 1.01399e4 99.9043

Uncalibrated Peaks:

Sample Name: GR-12-099

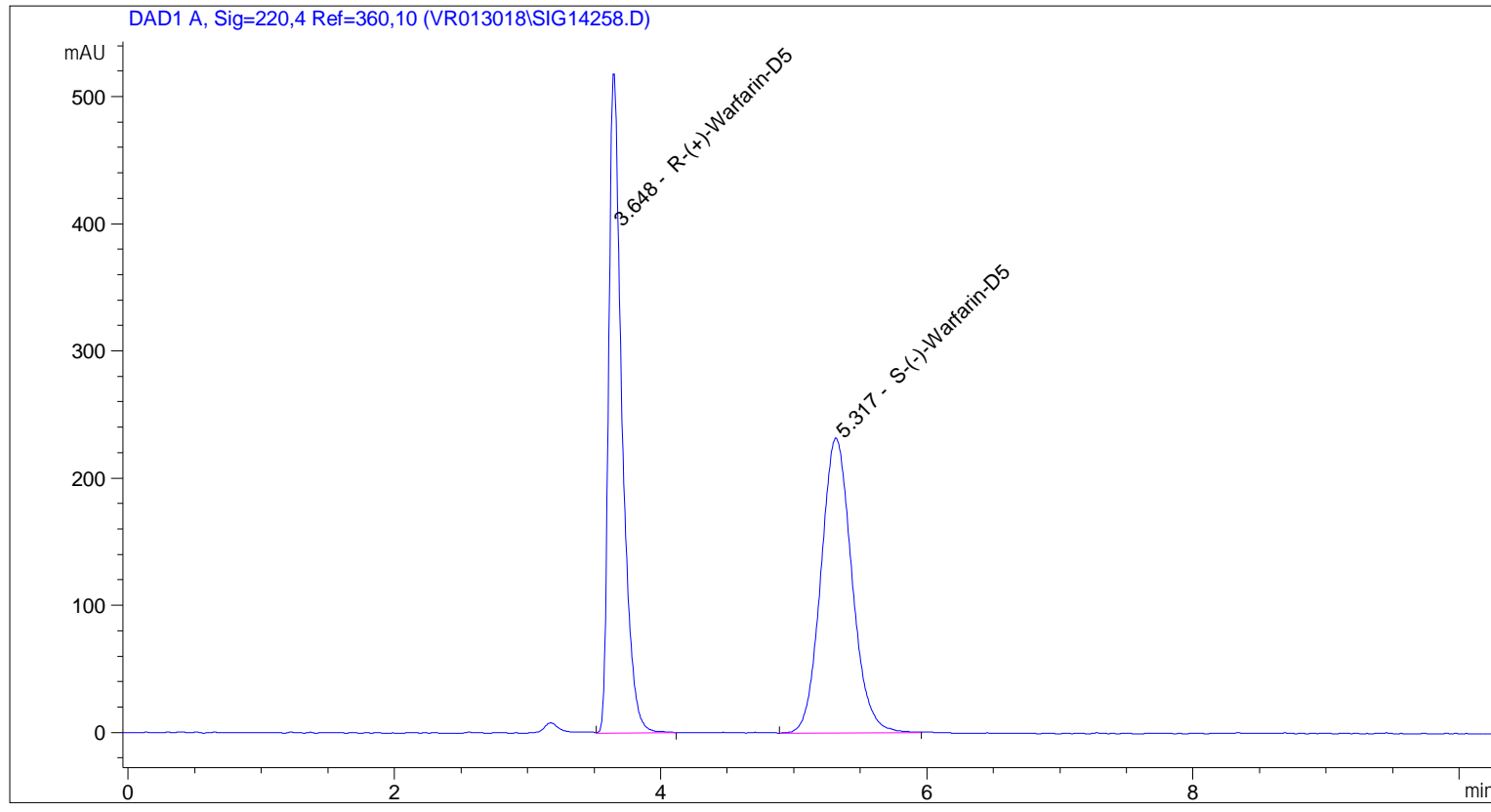
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.132	BB	0.1234	3.52802	0.0348	?
2	2.989	BB	0.0888	1.67933	0.0165	?
3	4.499	BB	0.1019	2.17593	0.0214	?
4	5.947	BB	0.1411	2.32748	0.0229	?

Uncalib. totals :                    9.71077 9.568e-2

=====  
\*\*\* 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