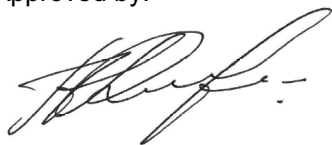


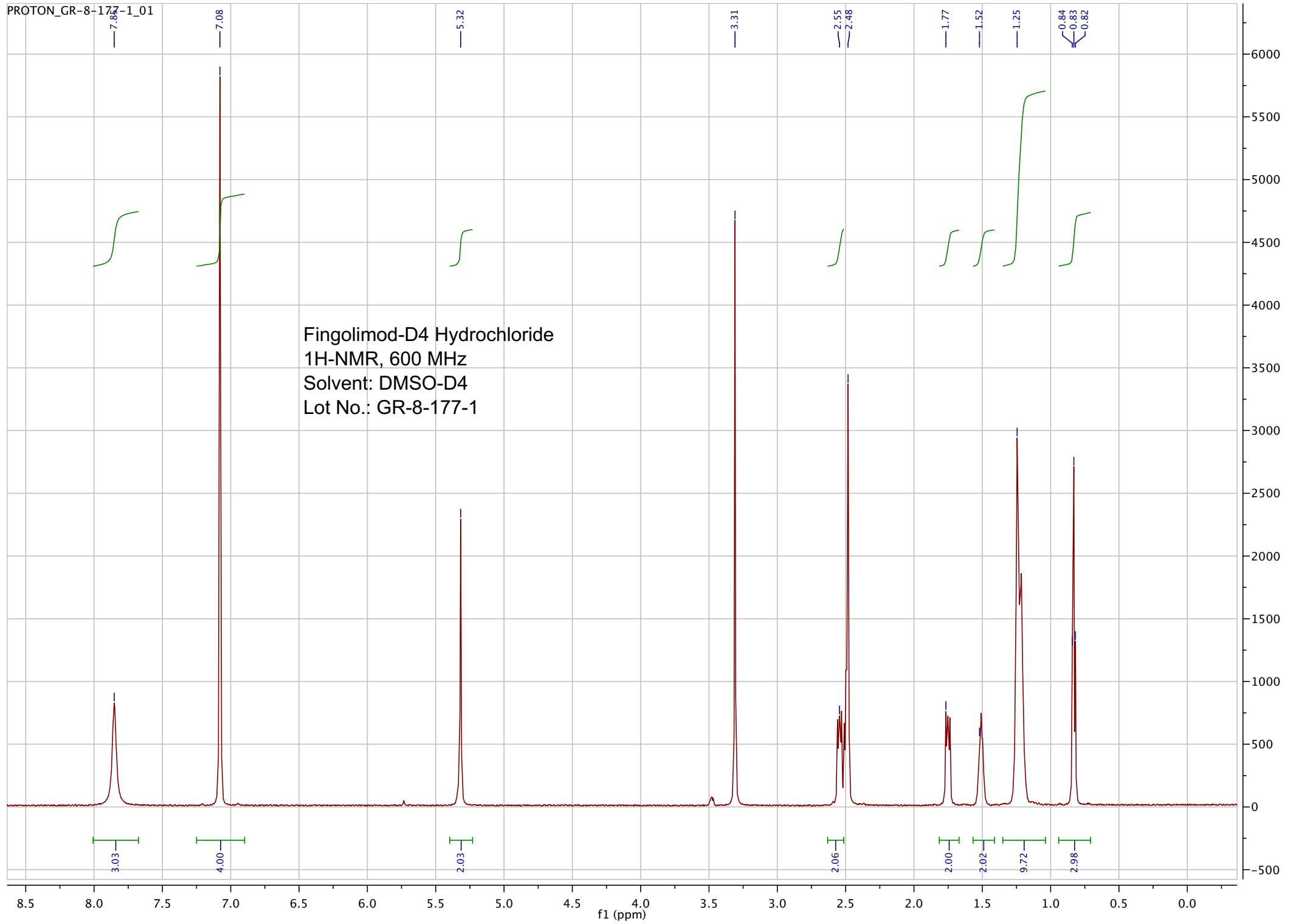
Name:	Fingolimod-D4 Hydrochloride (2-Amino-2-(2-(4-octylphenyl)ethyl)propane-1,3-diol-d4 Hydrochloride)
Lot#:	GR-8-177-1
Test Date:	01/18/2022 (re-test date: 01/18/2027)
CAS No.:	1346604-90-7
MF:	C ₁₉ H ₃₀ D ₄ ClNO ₂
MW:	347.96
Appearance:	White solid
Purity:	99.5% by HPLC (average of two sample preparations); >98% atom D
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peak at m/z = 312.34 [M+H] ⁺)
Storage	Store at 0-5°C in a dry place away from direct sunlight

Approved by:

Date: 01/18/2022



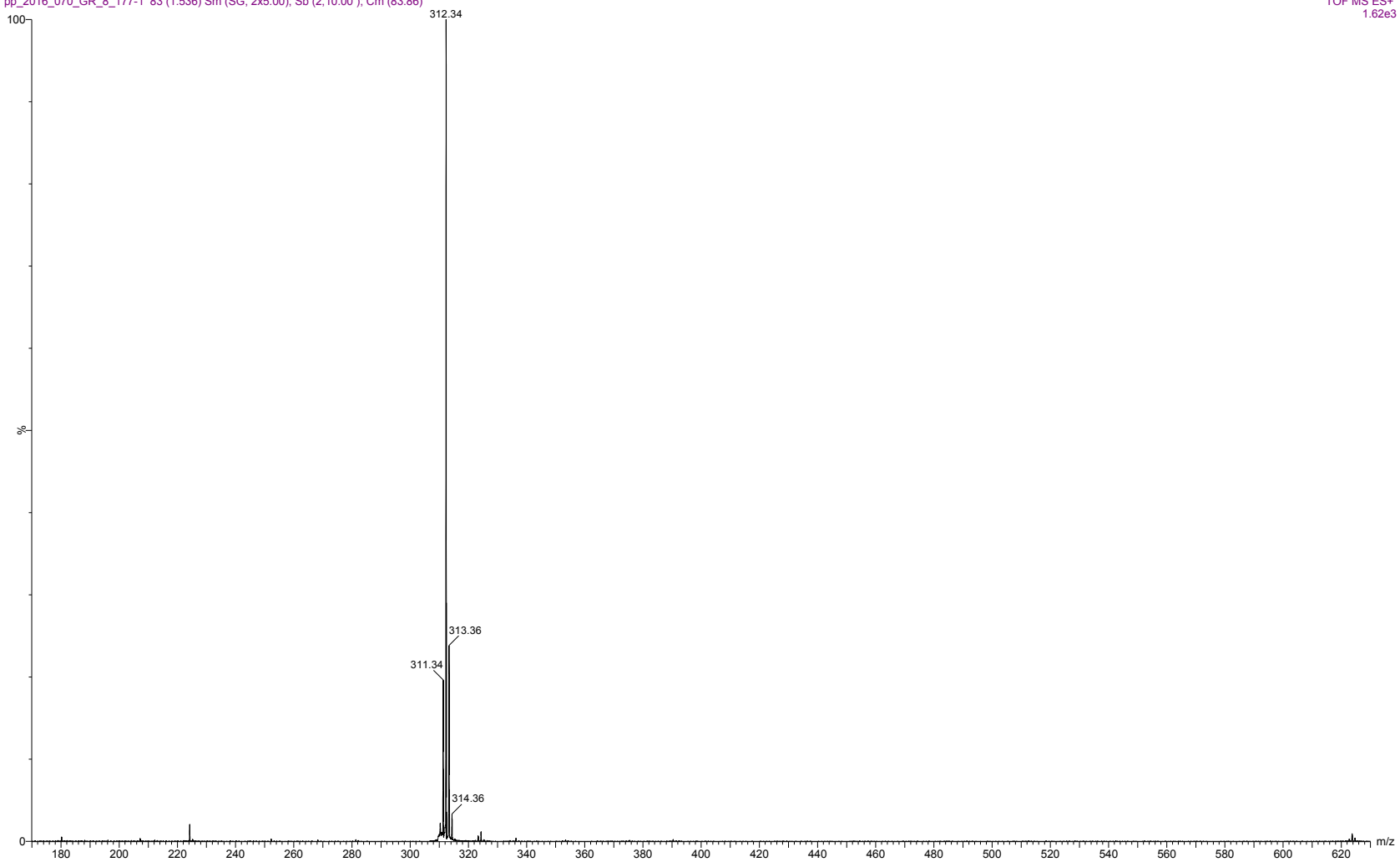
Viorica Rusu, QC/QA Manager



pp_2016_070_GR_8_177-1 83 (1.536) Sm (SG, 2x5.00); Sb (2,10.00); Cm (83:86)

7.0000000

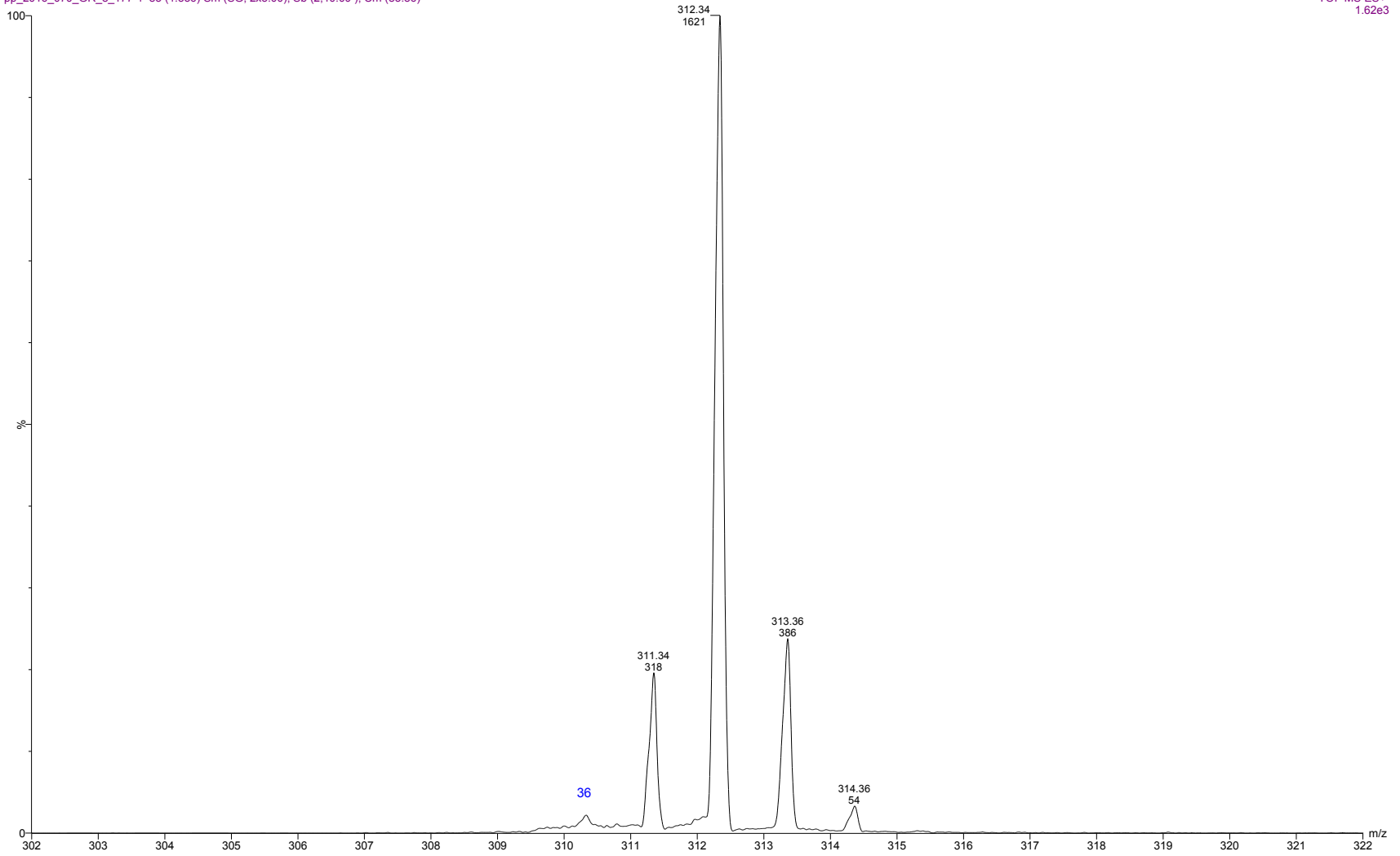
TOF MS ES+
1.62e3



pp_2016_070_GR_8_177-1 83 (1.536) Sm (SG, 2x5.00); Sb (2,10.00); Cm (83.86)

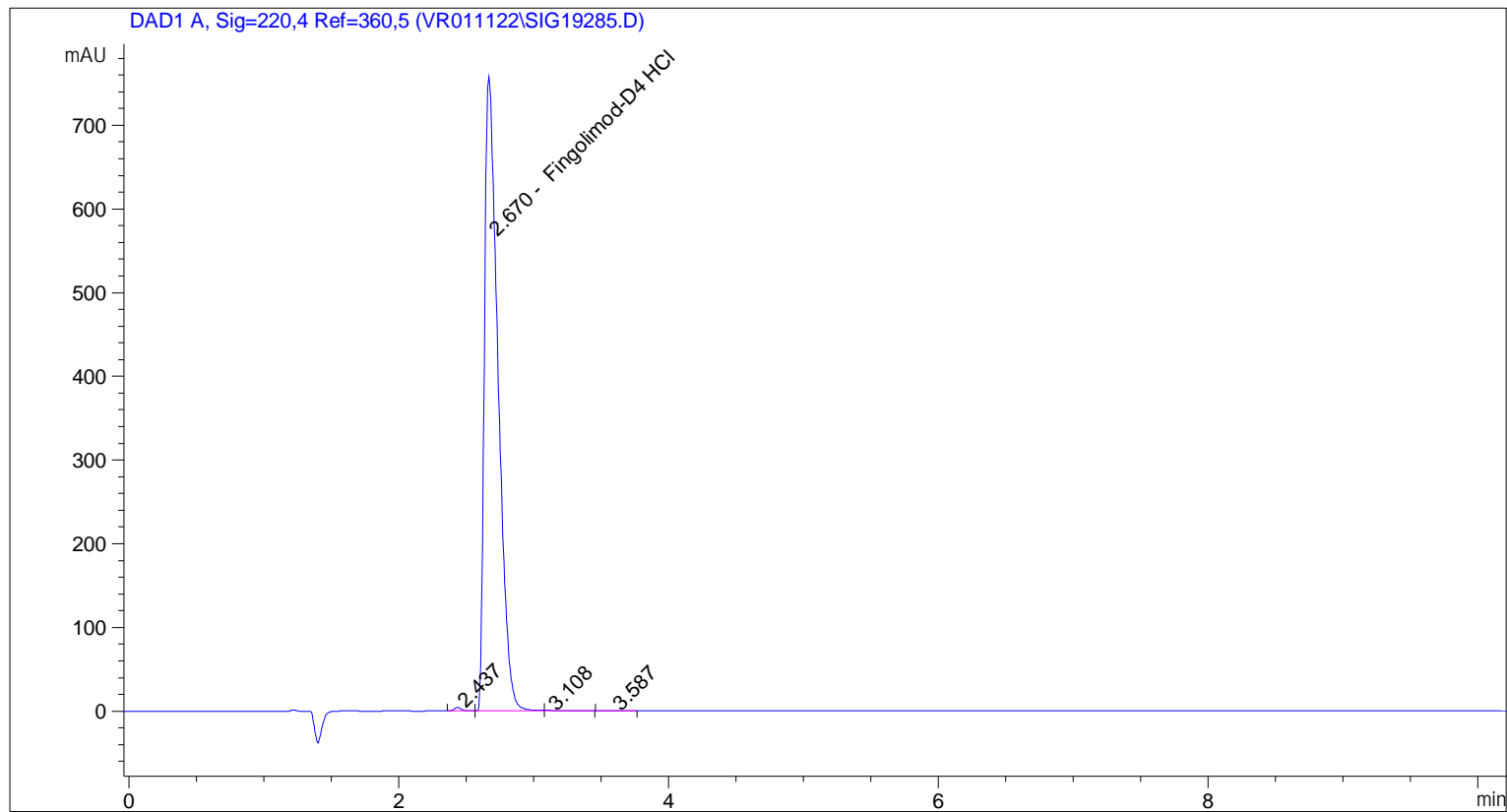
7.0000000

TOF MS ES+
1.62e3



```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 10
Injection Date  : 1/18/2022 1:29:10 PM
                                           Inj Volume : 7.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR011822_177.M
Last changed    : 1/18/2022 1:28:05 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR011822_177PM.M
Last changed    : 1/18/2022 2:37:13 PM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      1/18/2022 2:36:55 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

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

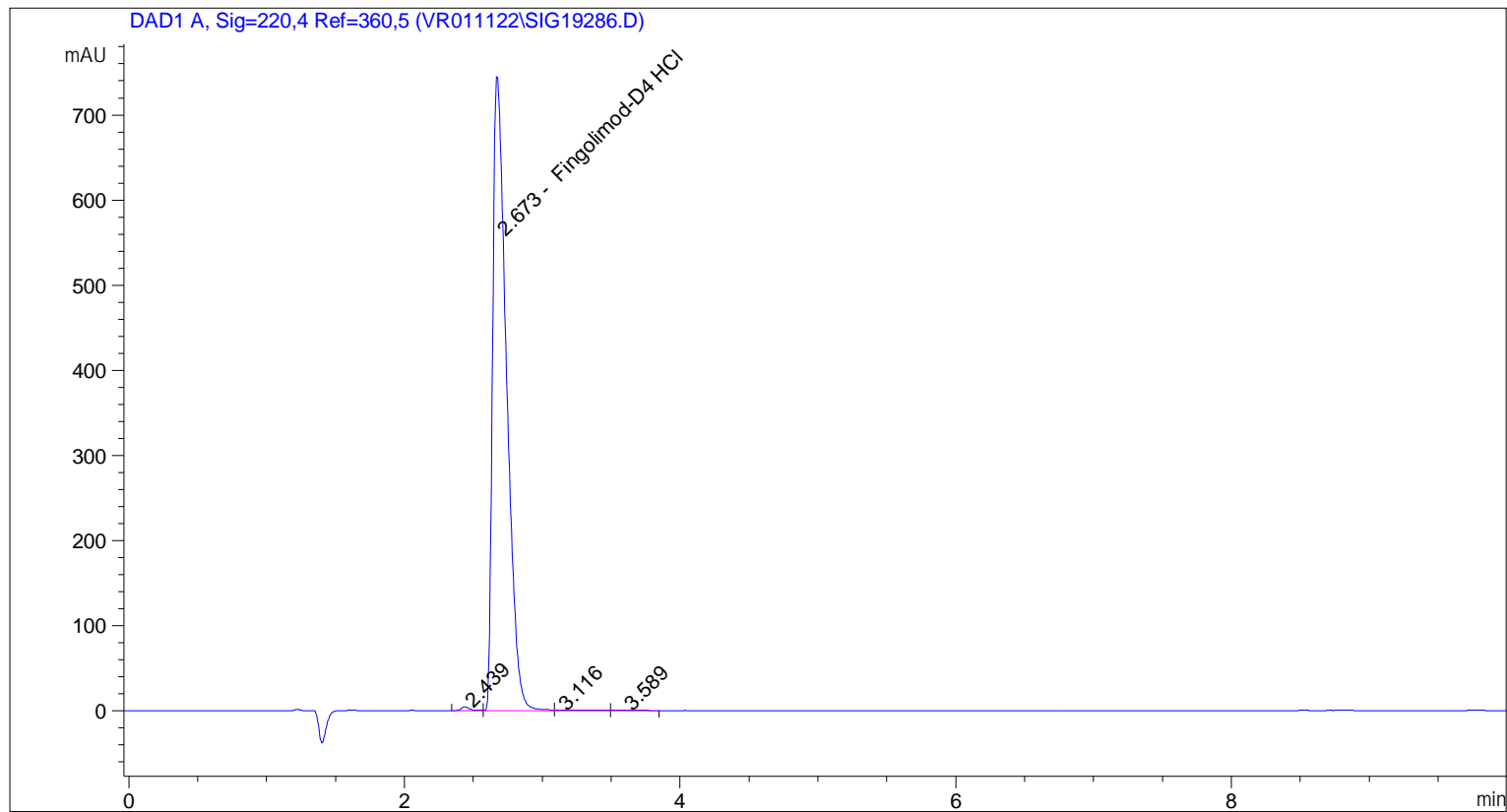
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.437	BV	0.0594	16.74149	0.3123	?
2	2.670	VV	0.1081	5335.99512	99.5539	Fingolimod-D4 HCl
3	3.108	VV B	0.0966	4.30521	0.0803	?
4	3.587	BB	0.0878	2.86551	0.0535	?

Totals : 5359.90732

=====

*** End of Report ***

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 11
Injection Date : 1/18/2022 1:41:36 PM Inj Volume : 7.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR011822_177.M
Last changed : 1/18/2022 1:40:33 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR011822_177PM.M
Last changed : 1/18/2022 2:37:13 PM by vrusu



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

Sorted By : Signal
Calib. Data Modified : 1/18/2022 2:36:55 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	2.439	BV	0.0641	17.72833	0.3365	?
2	2.673	VV	0.1060	5239.06445	99.4379	Fingolimod-D4 HCl
3	3.116	VV B	0.1333	7.83147	0.1486	?
4	3.589	VB	0.1053	4.05319	0.0769	?

Totals : 5268.67744

=====

*** End of Report ***