

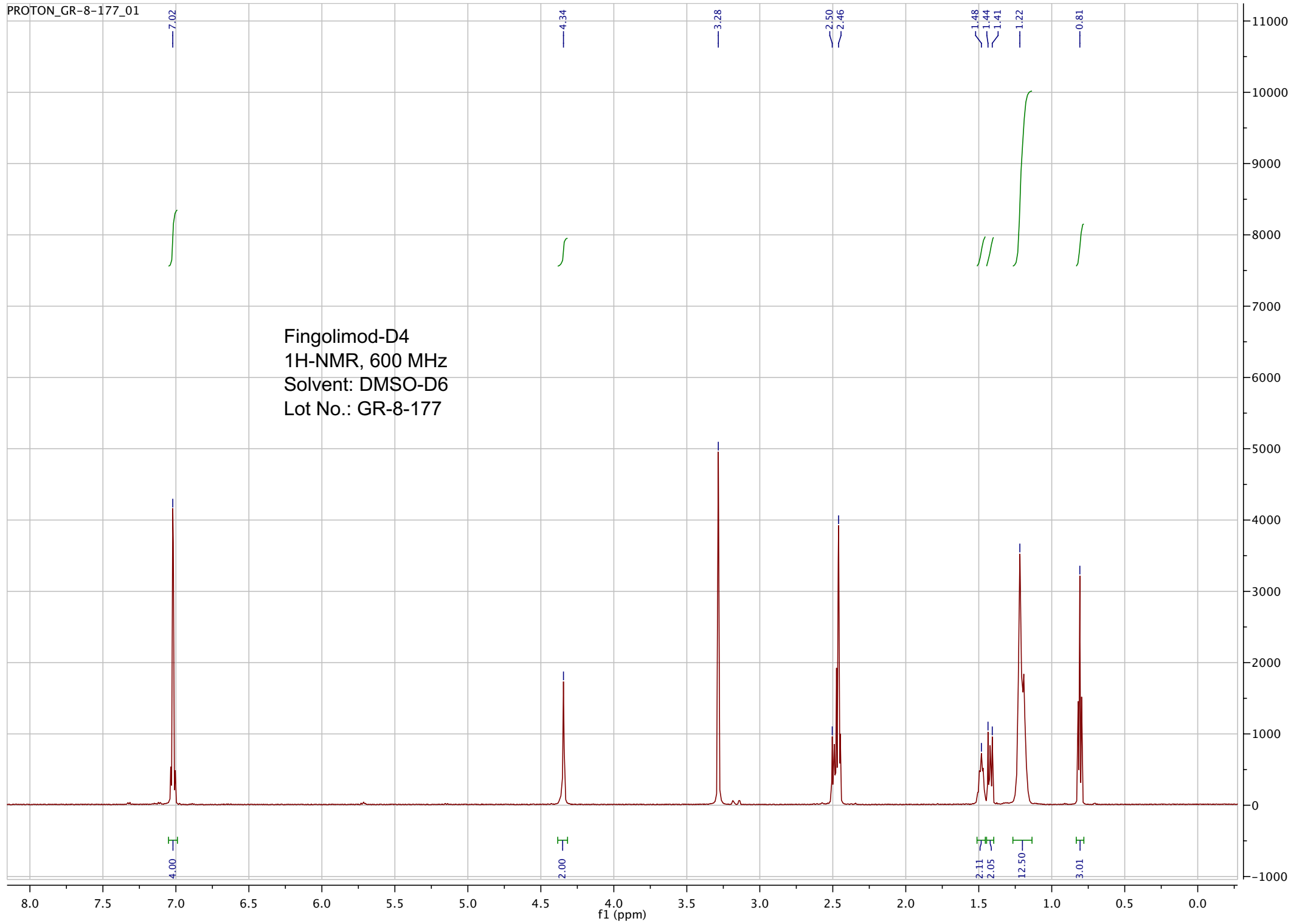
Name:	Fingolimod-D4 (2-Amino-2-(2-(4-octylphenyl)ethyl)propane-1,3-diol-d4)
Lot#:	GR-8-177
Test Date:	08/18/2021 (re-test date: 08/18/2026)
CAS No.:	1346747-38-3
MF:	C ₁₉ H ₂₉ D ₄ NO ₂
MW:	311.50
Appearance:	White flakes
Purity:	99.1% by HPLC (average of two sample preparations); >98% atom D
¹H-NMR:	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

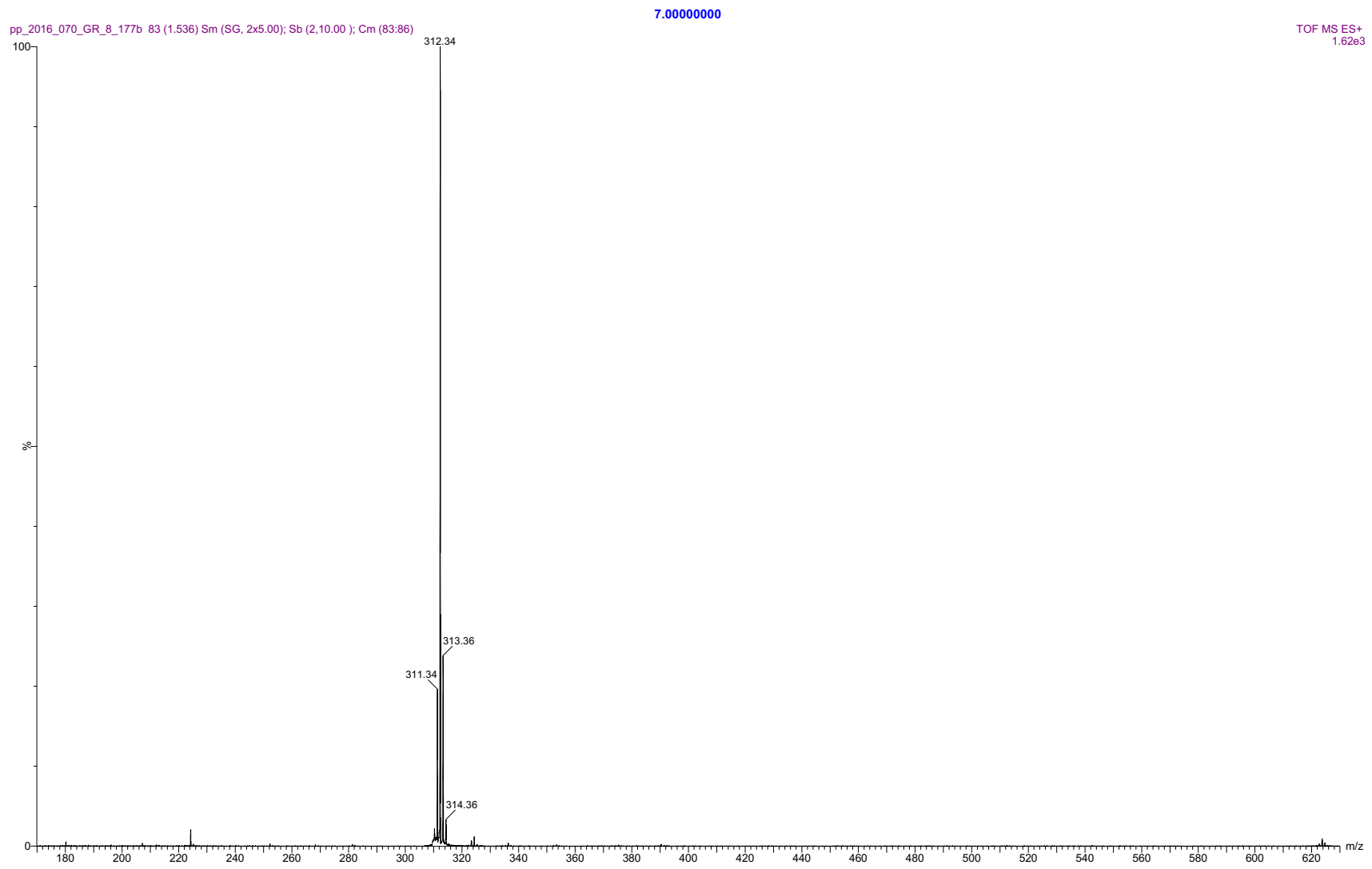
Approved by:

Date: 08/19/2021



Viorica Rusu, QC/QA Manager



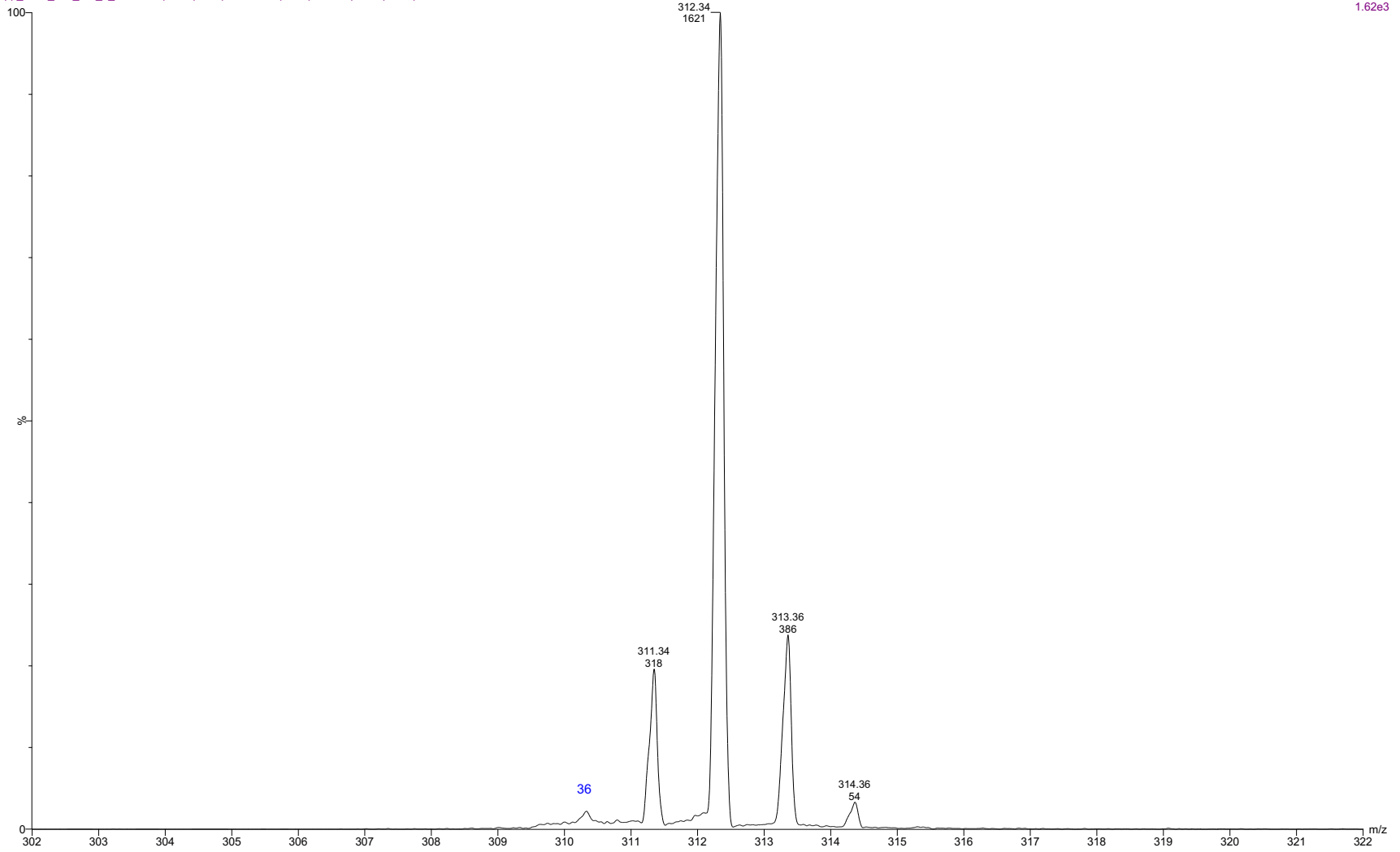


ESI-MS spectrum for sample GR-8-177 (positive ion mode). Shows monoisotopic $[M+H]^+$ mass.

pp_2016_070_GR_8_177b 83 (1.536) Sm (SG, 2x5.00); Sb (2,10.00); Cm (83:86)

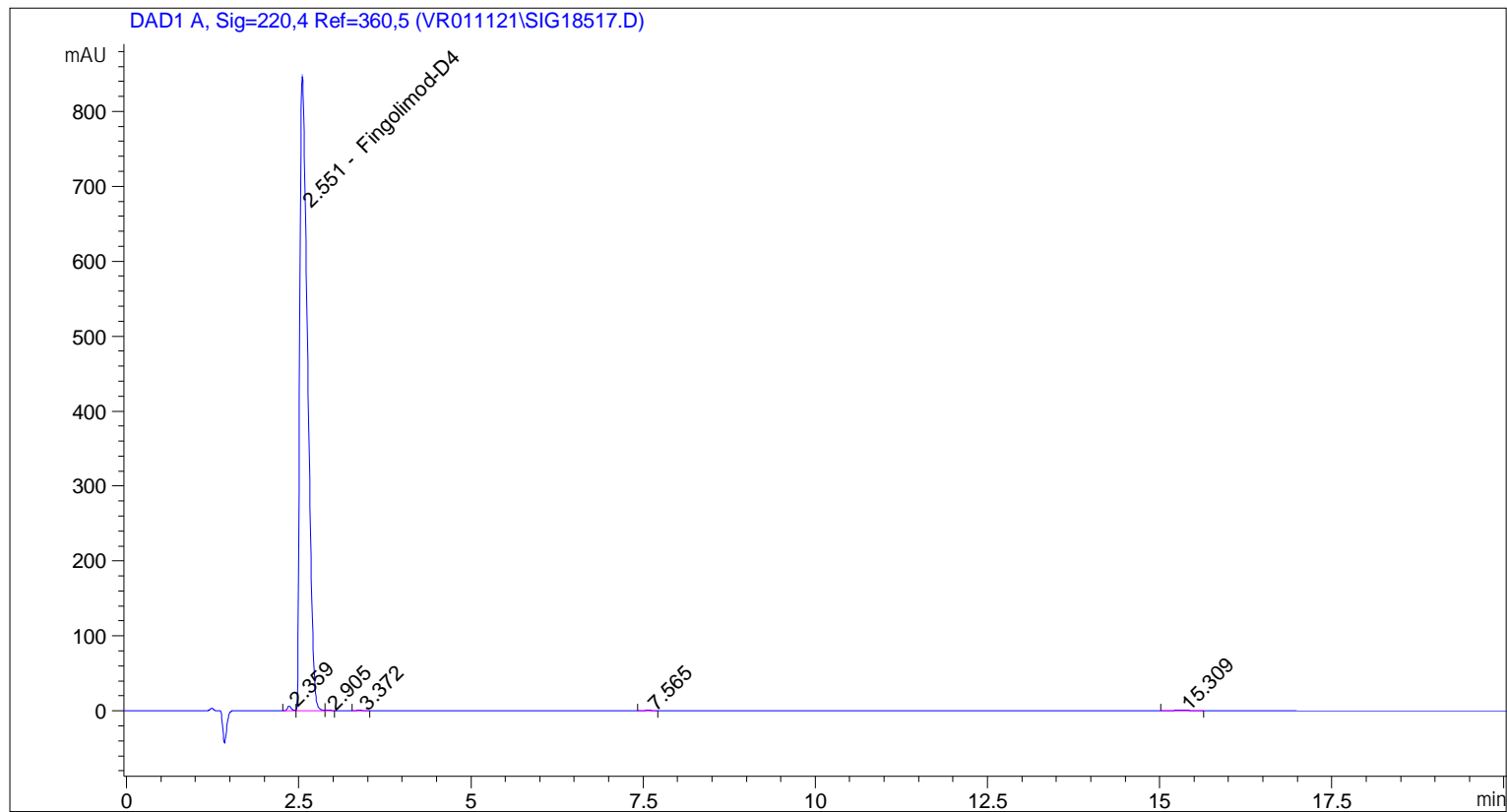
7.0000000

TOF MS ES+
1.62e3



Expansion of above with intensity labels.

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 43
Injection Date : 8/18/2021 12:26:12 PM Inj Volume : 15.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR_081821_177.M
Last changed : 8/18/2021 12:25:01 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081821_177PM.M
Last changed : 8/18/2021 1:27:14 PM by vrusu



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Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 8/18/2021 1:26:44 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	2.359	BV	0.0626	24.96130	0.3709	?
2	2.551	VV	0.1240	6674.02832	99.1614	Fingolimod-D4
3	2.905	VV	0.0732	3.99940	0.0594	?
4	3.372	BV	0.0853	4.96868	0.0738	?
5	7.565	BV	0.1114	6.17006	0.0917	?
6	15.309	BV	0.2243	16.34416	0.2428	?

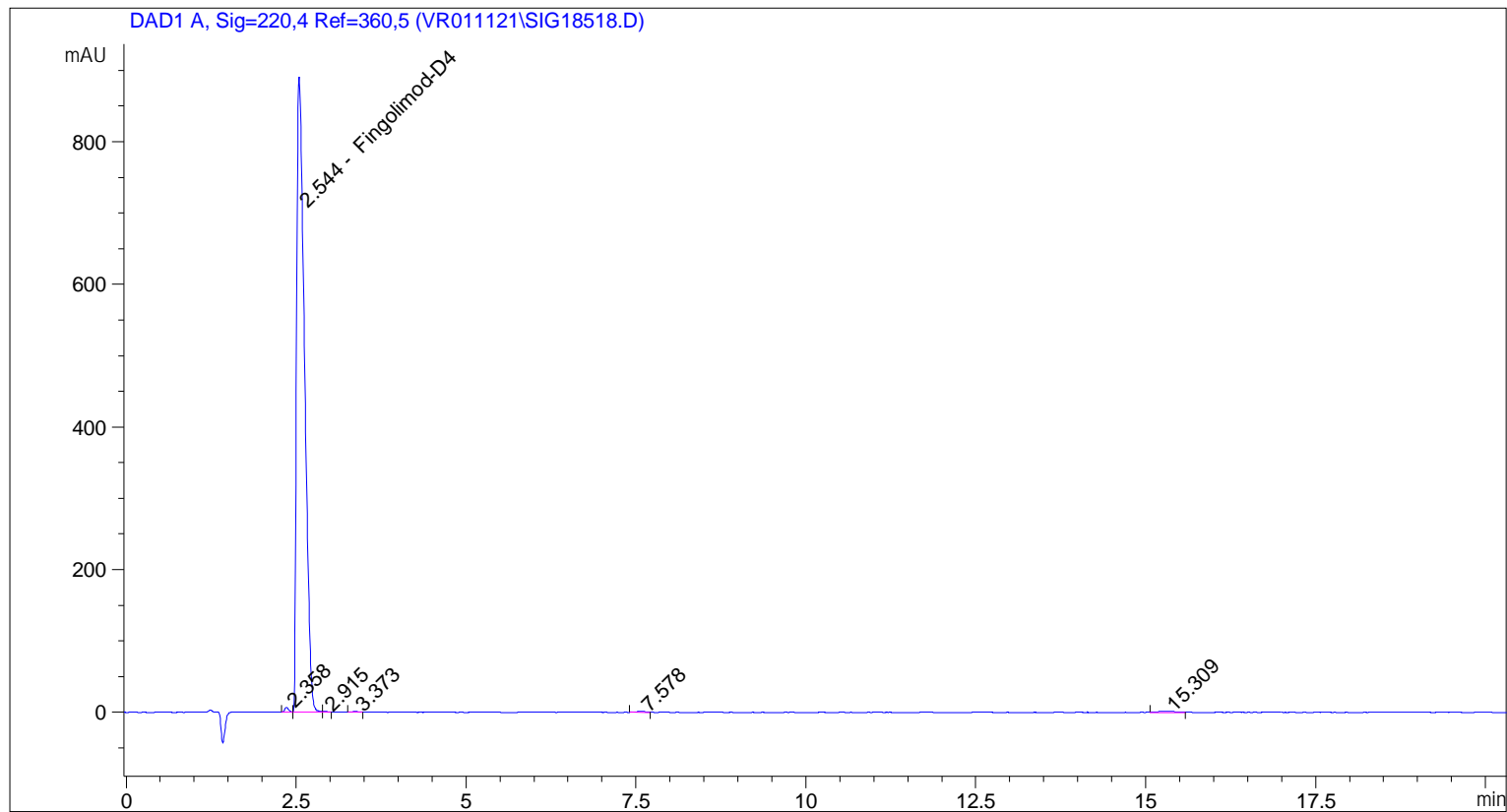
Totals : 6730.47192

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 44
Injection Date  : 8/18/2021 12:50:15 PM
                                           Inj Volume : 15.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR_081821_177.M
Last changed    : 8/18/2021 12:49:02 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081821_177PM.M
Last changed    : 8/18/2021 1:27:14 PM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      8/18/2021 1:26:44 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	2.358	BV	0.0603	26.41307	0.3598	?
2	2.544	VV	0.1291	7264.77979	98.9715	Fingolimod-D4
3	2.915	VB	0.0656	4.41657	0.0602	?
4	3.373	VV	0.0925	6.43640	0.0877	?
5	7.578	BV	0.1263	12.93873	0.1763	?
6	15.309	VV	0.2188	25.28817	0.3445	?

Totals : 7340.27273

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*** End of Report ***