

Name:	Cyclosporin A-D4 Acetate
Lot#:	GR-4-283
Test Date:	05/06/2020 (re-test date: 05/06/2025)
CAS No.:	NA
MF:	C ₆₄ H ₁₀₉ D ₄ N ₁₁ O ₁₃
MW:	1248.67
Appearance:	White Solid
Purity:	97.1% by HPLC; >98% atom D
¹H-NMR:	Conforms (shows ~1,3:1 mixture of Z and E isomers)
MS-ESI (+)	Conforms (shows peak at m/z = 1248.8 [M+H] ⁺)
Storage	Store at 0-8°C in a dry place away from direct sunlight

Approved by:

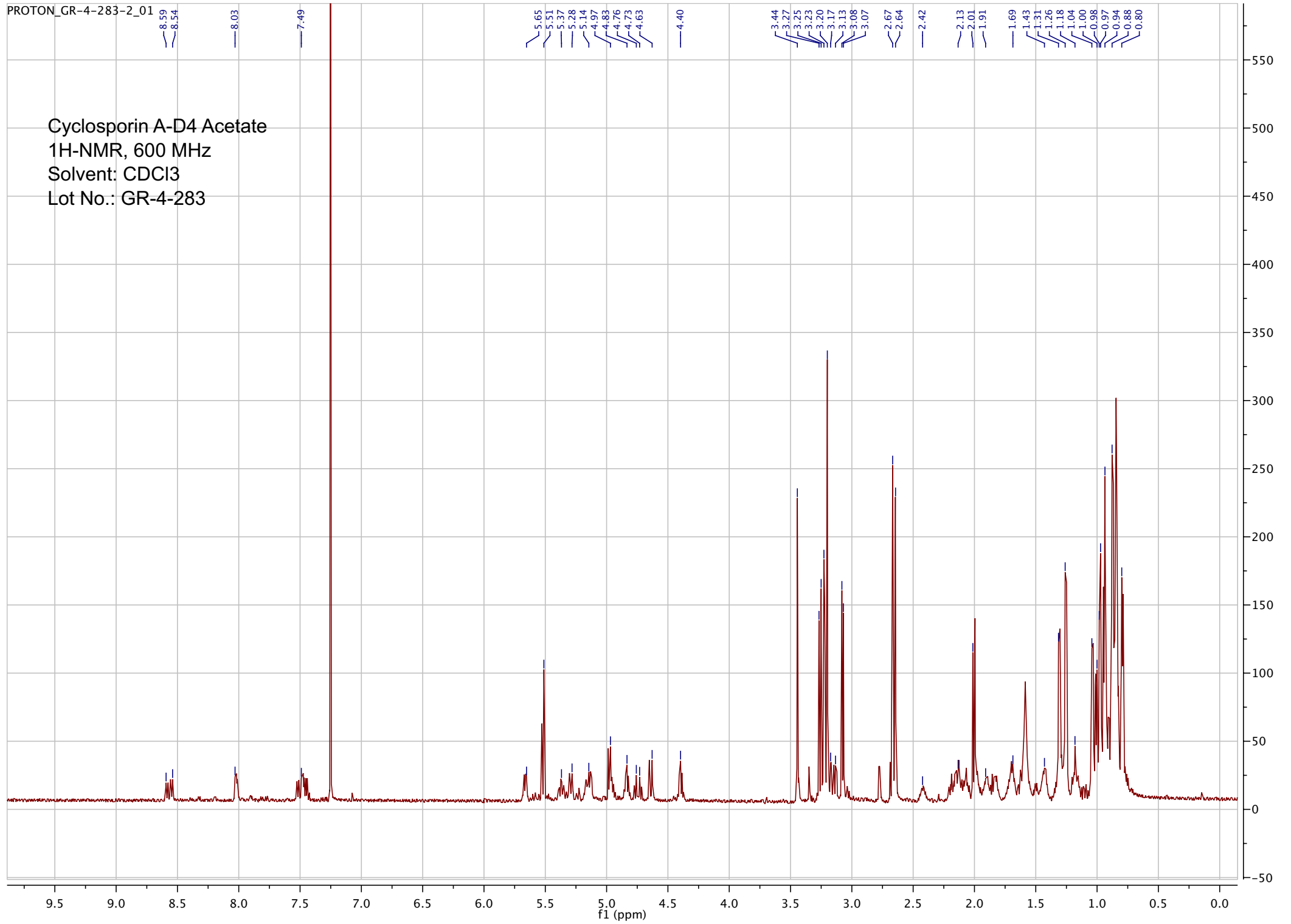
Date: 05/06/2020



Viorica Rusu, QC/QA Manager

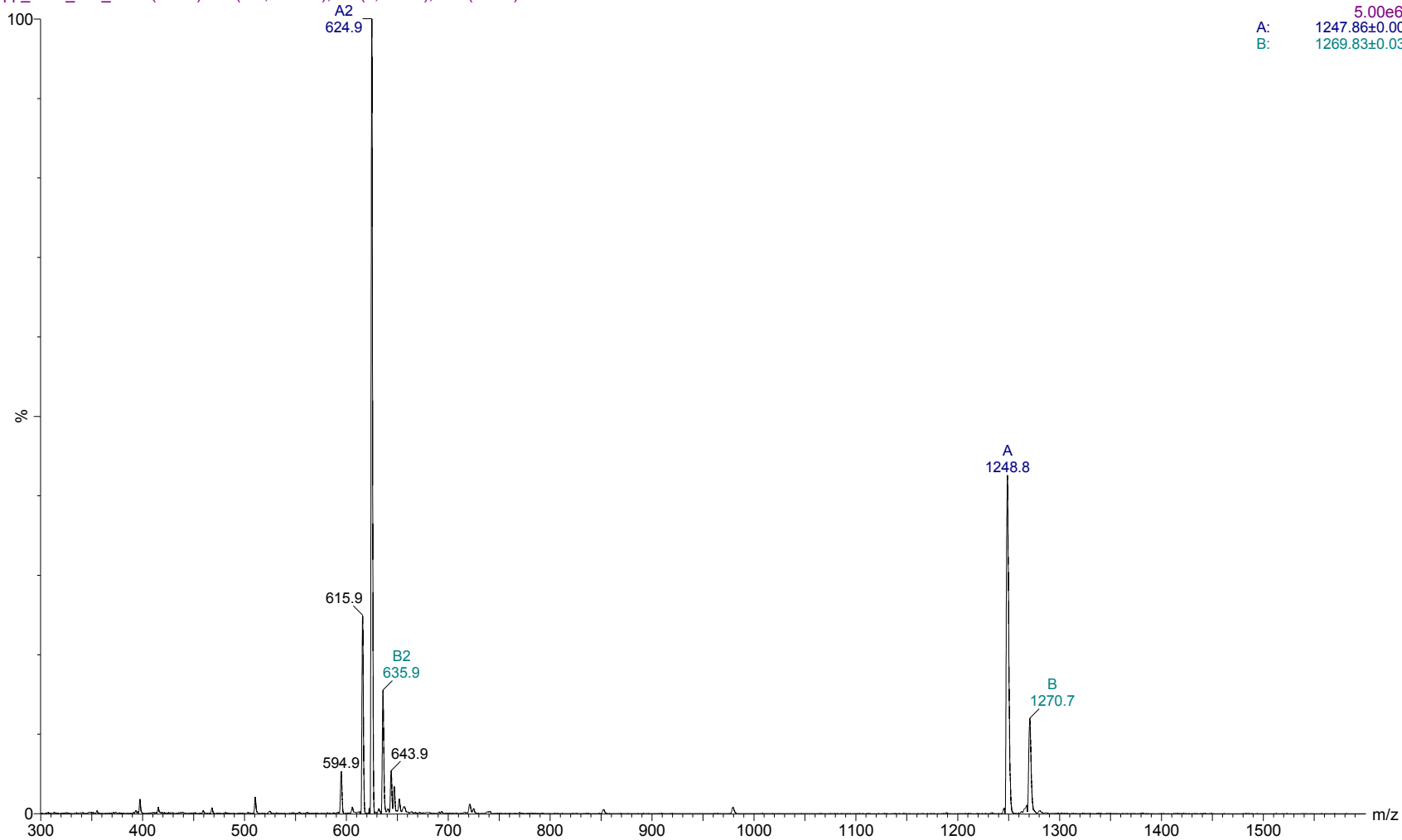
PROTON_GR-4-283-2_01

Cyclosporin A-D4 Acetate
1H-NMR, 600 MHz
Solvent: CDCl3
Lot No.: GR-4-283



pp_2020_079_1 20 (1.170) Sm (SG, 2x3.00); Sb (2,10.00); Cm (18:34)

Scan ES+
5.00e6
A: 1247.86±0.00
B: 1269.83±0.03



Raw ESI-MS spectrum for sample GR-4-283. Shows average [M+H]⁺ mass.

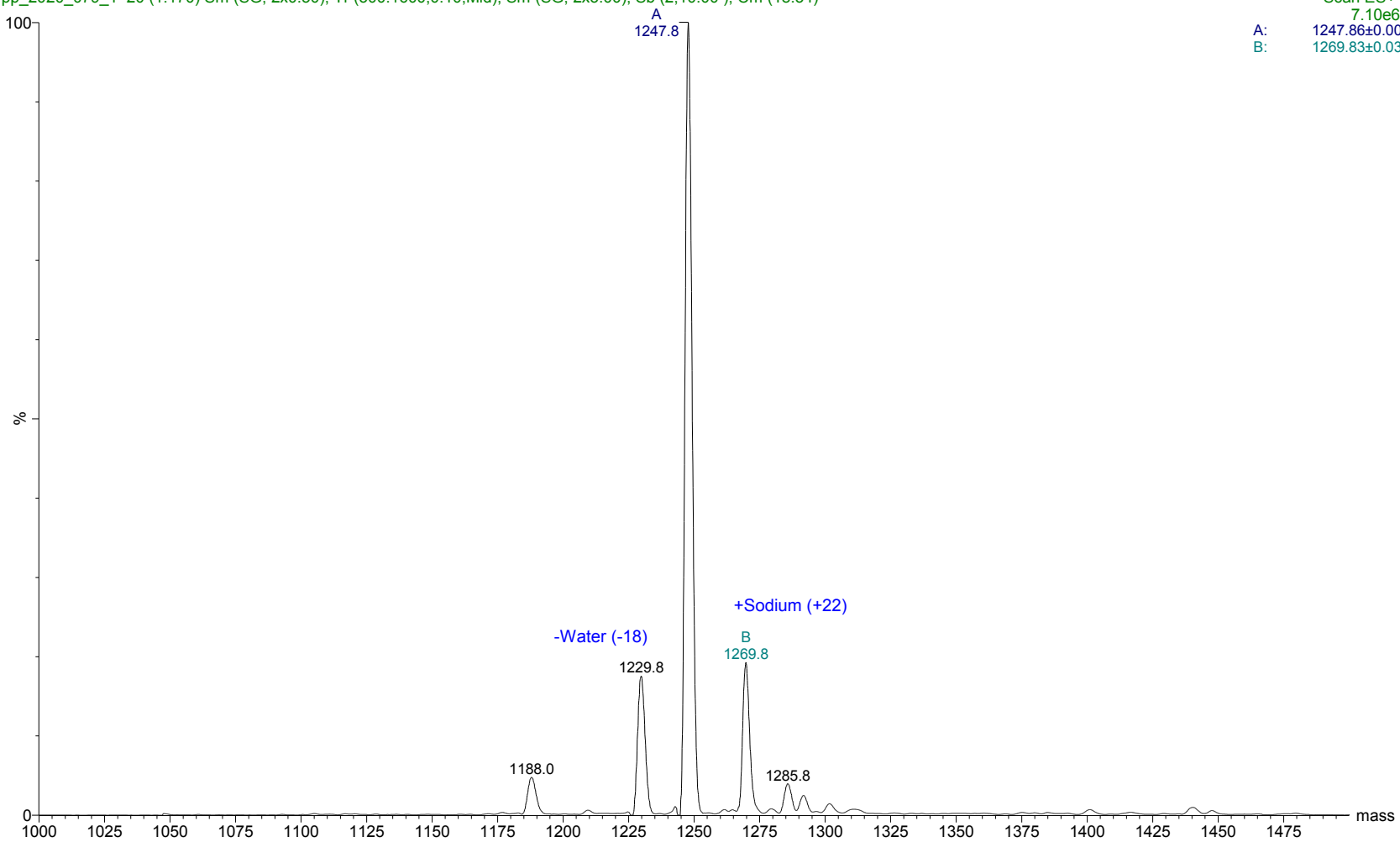
pp_2020_079_1 20 (1.170) Sm (SG, 2x0.50); Tr (300:1600,0.10,Mid); Sm (SG, 2x3.00); Sb (2,10.00); Cm (18:34)

Scan ES+

7.10e6

A: 1247.86±0.00

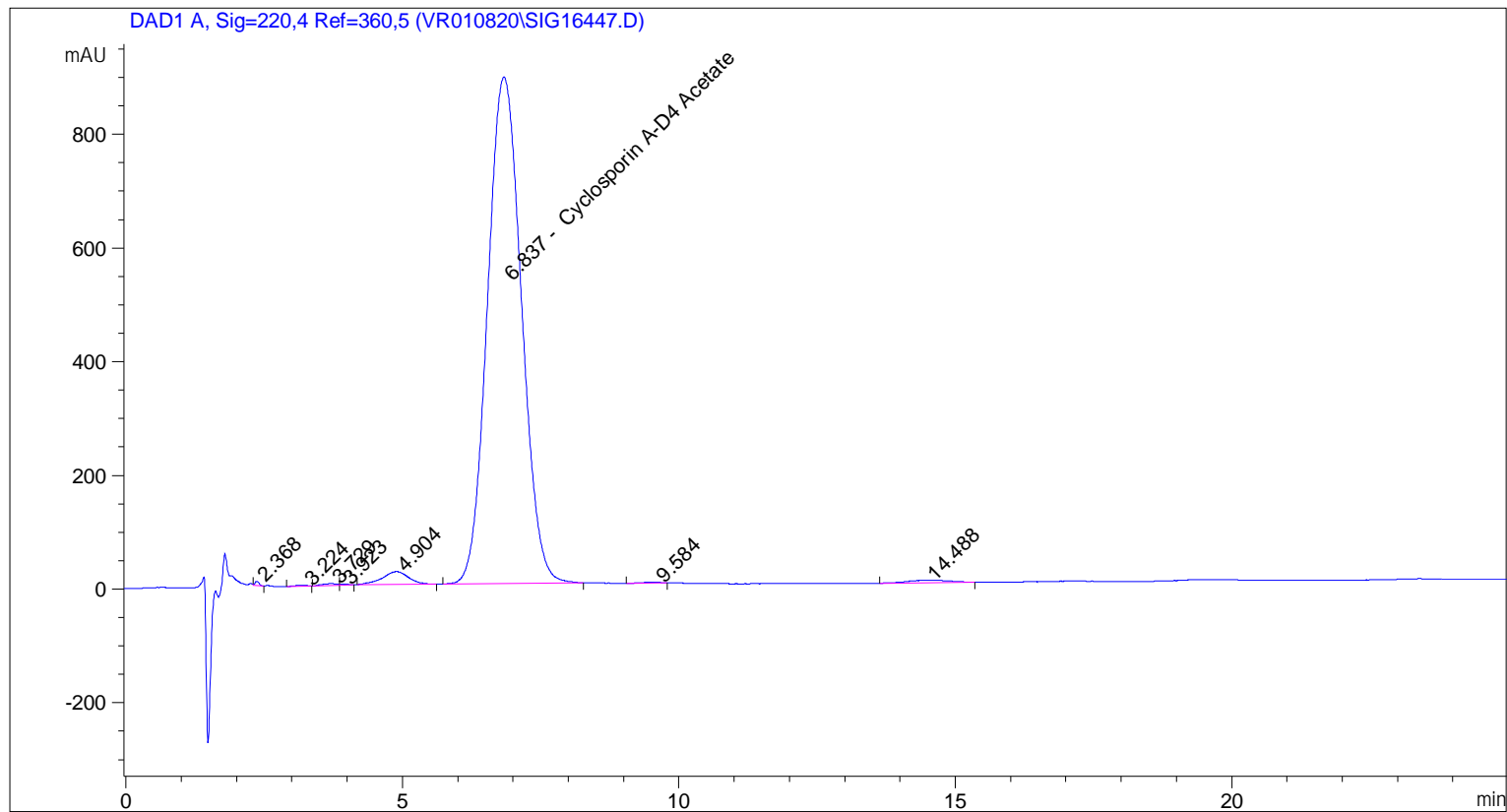
B: 1269.83±0.03



Transform spectrum for sample GR-4-283. Shows average mass, M.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1
Injection Date  : 5/6/2020 2:47:06 PM
Location       : Vial 22
Inj Volume     : 50.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR050620_283.M
Last changed   : 5/6/2020 2:45:10 PM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR050620_283PM.M
Last changed   : 5/6/2020 3:08:24 PM by vrusu
  
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 Area Percent Report
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Sorted By      : Signal
Calib. Data Modified : 5/6/2020 3:08:07 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	2.368	VB	0.0772	38.76199	0.0990	?
2	3.224	BB	0.2165	27.44695	0.0701	?
3	3.729	BV	0.2375	58.56068	0.1495	?
4	3.923	VB	0.1105	15.00987	0.0383	?
5	4.904	BB	0.4213	738.60931	1.8860	?
6	6.837	BV	0.6698	3.80315e4	97.1120	Cyclosporin A-D4 Acetate
7	9.584	BB	0.3113	23.30977	0.0595	?
8	14.488	BB	0.5927	229.30556	0.5855	?

Sample Name: GR-4-283

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
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*** End of Report ***