

**Name:** 7 $\alpha$ -Hydroxyhydrocortisone  
(Hydrocortisone Impurity H)

**Lot#:** GR-8-295

**Test Date:** 09/16/2016 (re-test date: 09/16/2021)

**CAS No.:** NA

**MF:** C<sub>21</sub>H<sub>30</sub>O<sub>6</sub>

**MW:** 378.46

**Appearance:** White solid

**Purity:** 96.2% by HPLC

**<sup>1</sup>H-NMR:** Conforms

**MS-ESI (+)** Conforms (shows peak at m/z = 379.19 [M+H]<sup>+</sup>)

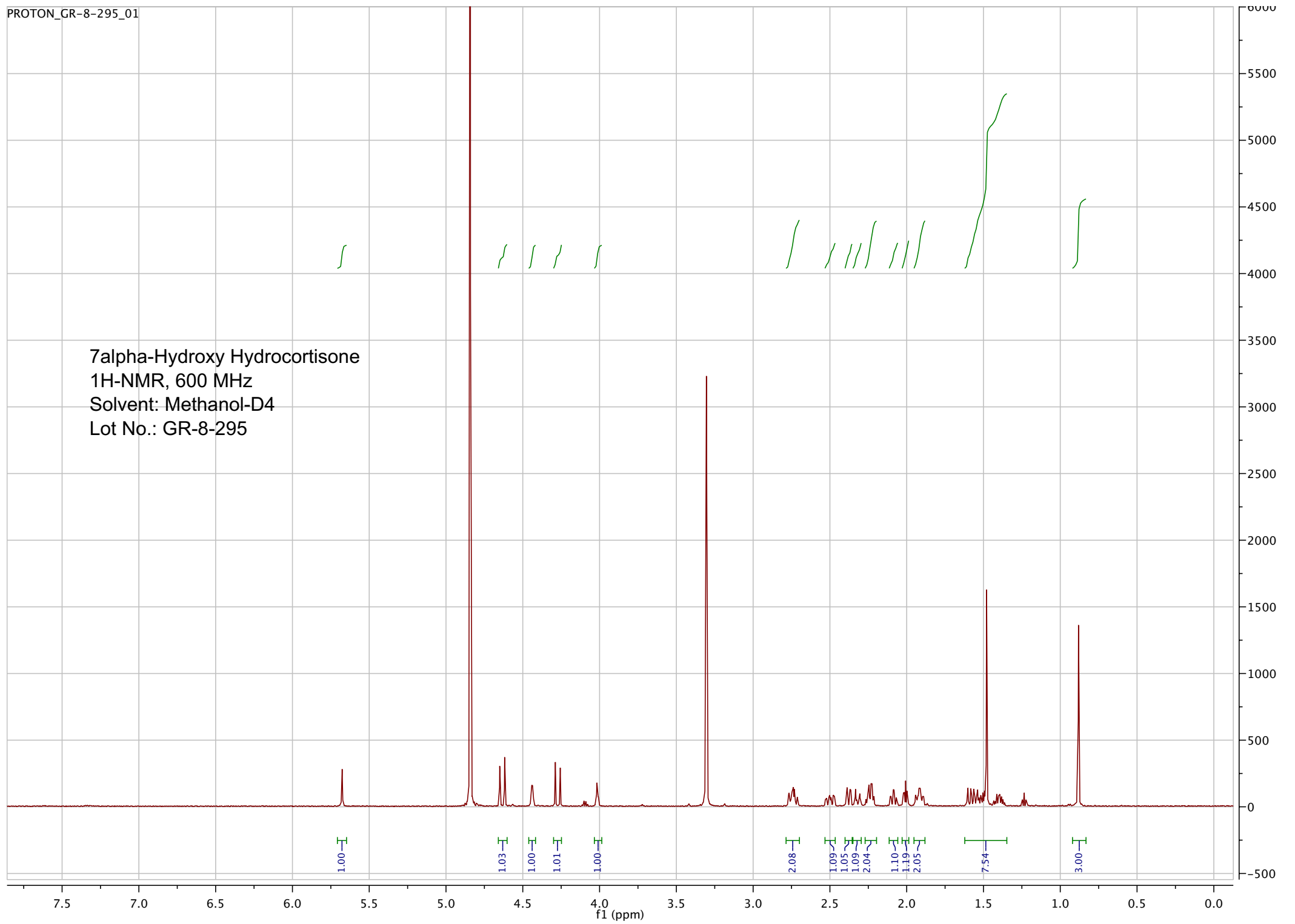
Approved by:

Date: 09/16/2016



Viorica Rusu, QC/QA Manager

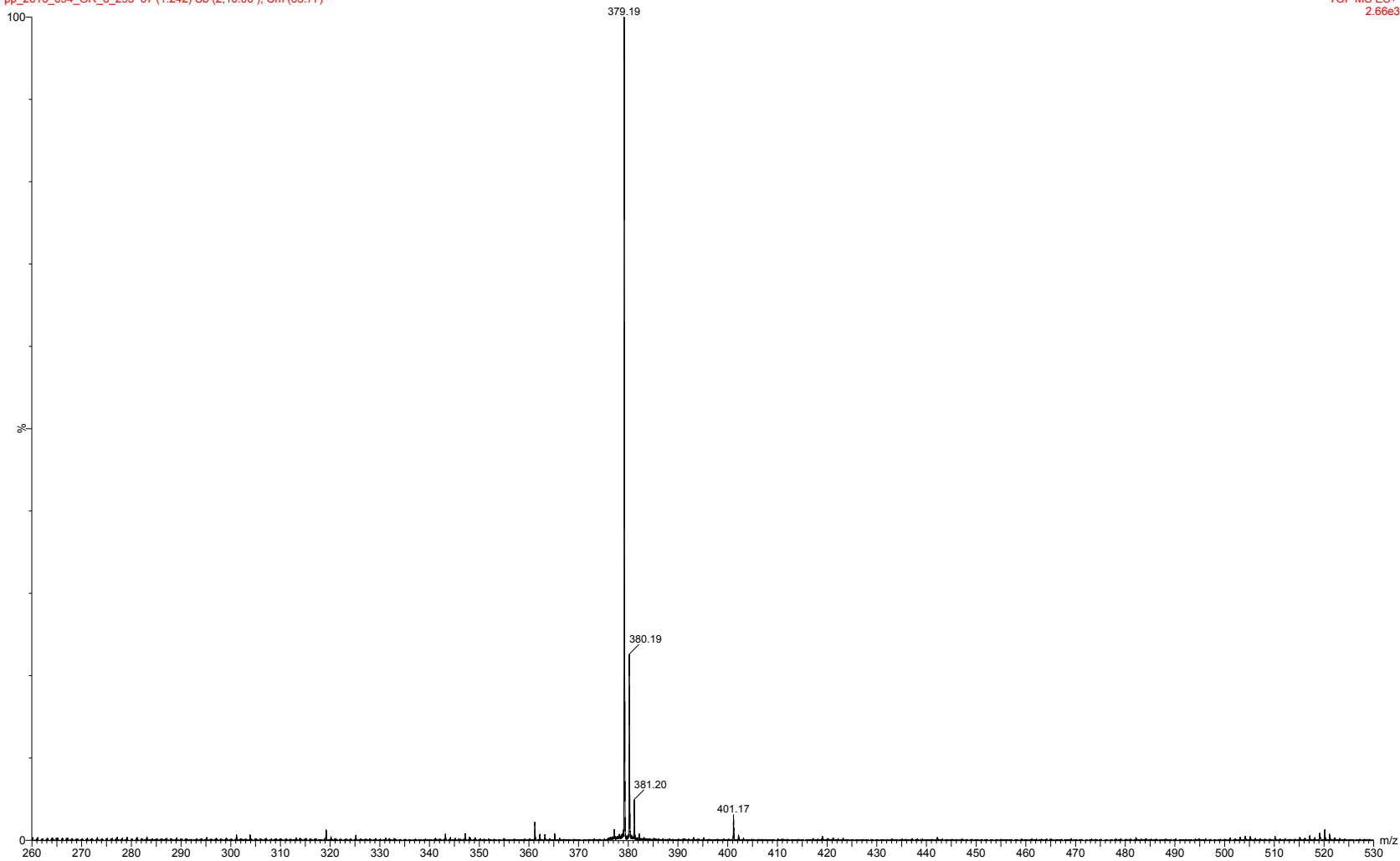
7alpha-Hydroxy Hydrocortisone  
1H-NMR, 600 MHz  
Solvent: Methanol-D4  
Lot No.: GR-8-295



pp\_2016\_094\_GR\_8\_295 67 (1.242) Sb (2,10.00); Cm (65.77)

7.00000000

09-Sep-2016, 13:29:44  
TOF MS ES+  
2.66e3



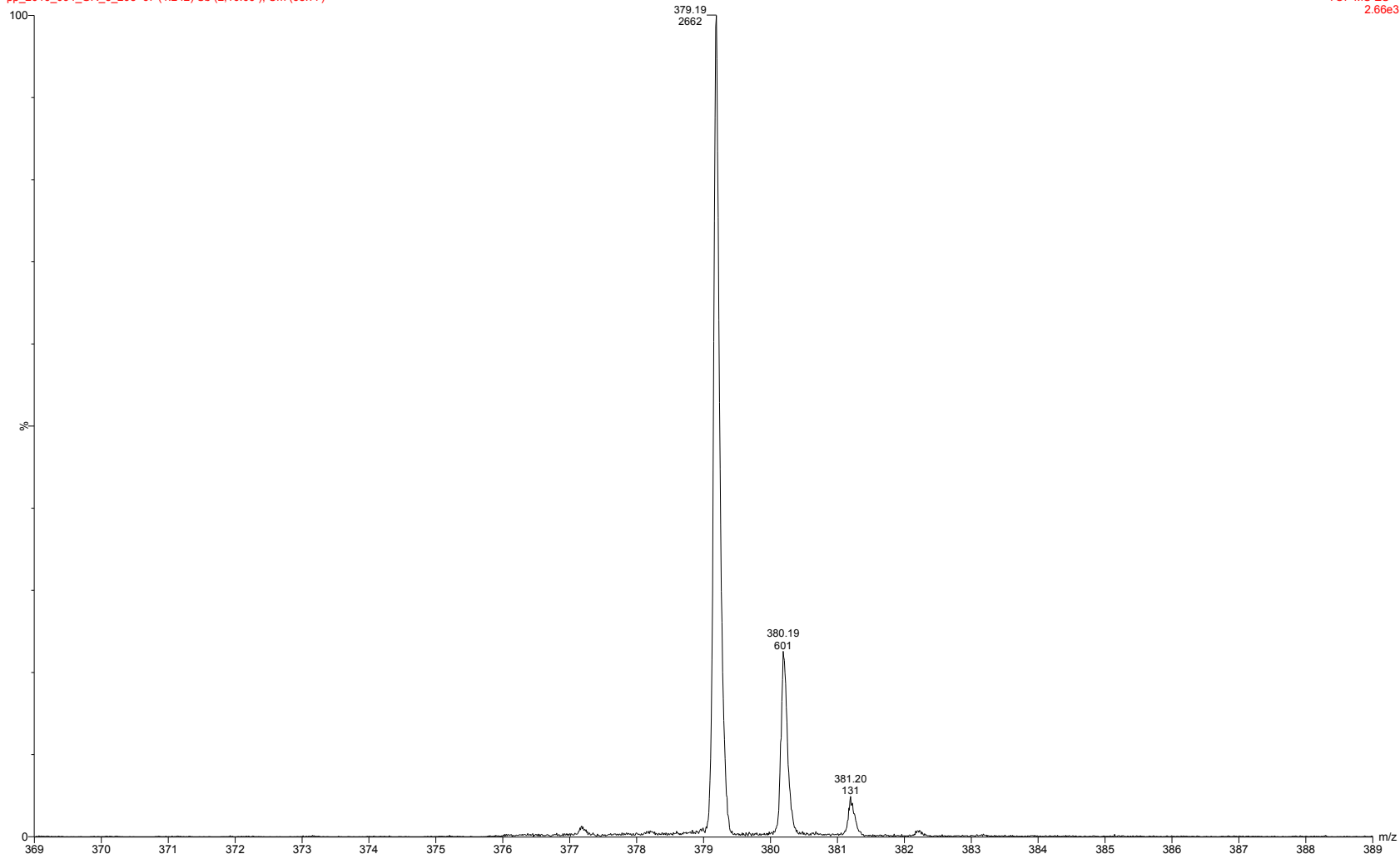
ESI-MS spectrum for sample GR-8-295. Shows monoisotopic [M+H]<sup>+</sup> mass.

pp\_2016\_094\_GR\_8\_295 67 (1.242) Sb (2,10.00); Cm (65.77)

7.00000000

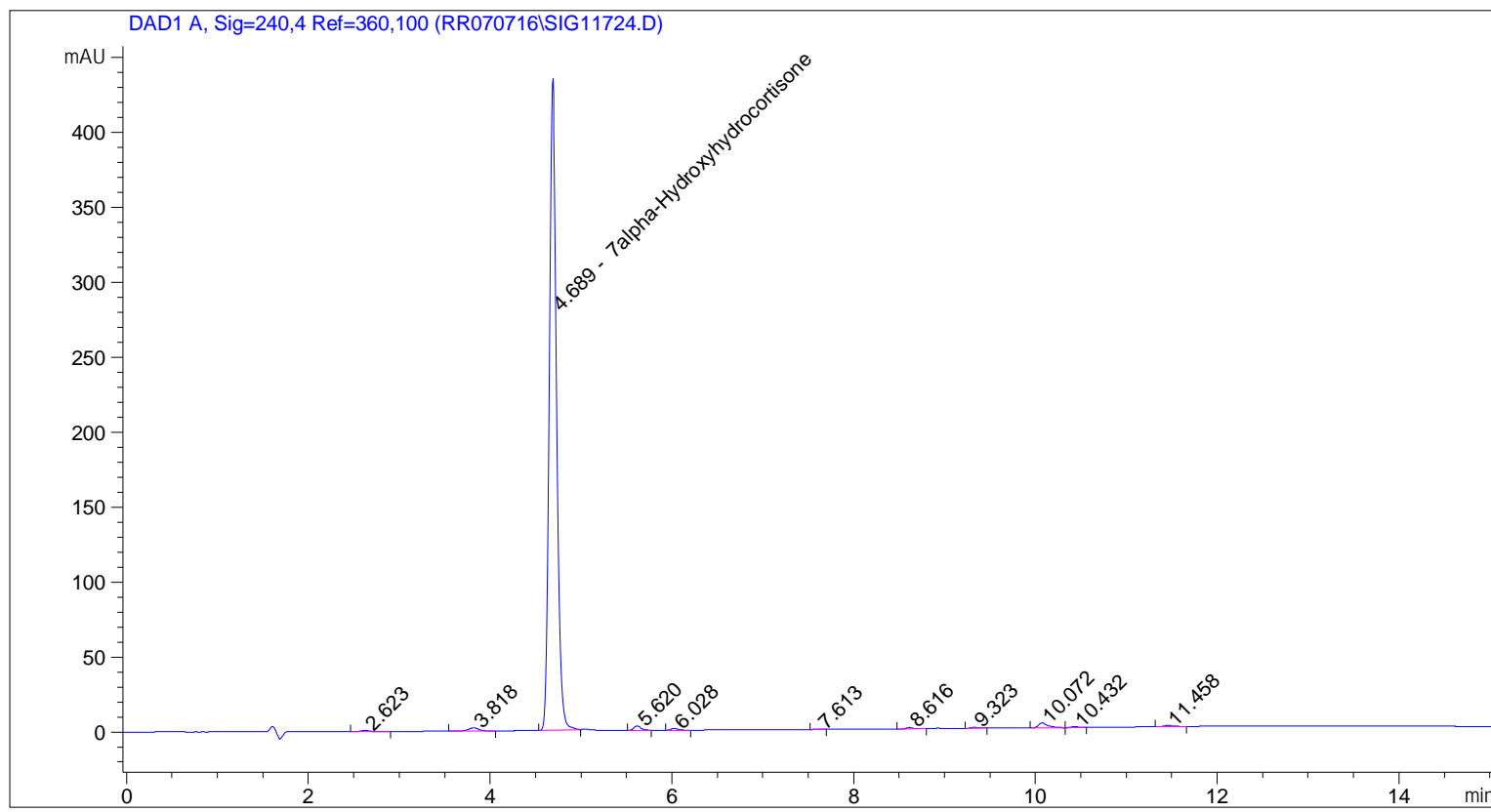
09-Sep-2016, 13:29:44

TOF MS ES+  
2.66e3



Expansion of the above

=====  
Acq. Operator : rrusu  
Acq. Instrument : Instrument 1 Location : Vial 3  
Injection Date : 9/8/2016 2:56:10 PM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR\_090816\_295.M  
Last changed : 9/8/2016 2:51:48 PM by rrusu  
Analysis Method : C:\CHEM32\1\METHODS\RR091416\_295PM.M  
Last changed : 9/16/2016 10:00:31 AM by vrusu  
Sample Info : Zorbax Eclipse XDB C18, 4.6x150mm, 3.5µ



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

Sorted By : Signal  
Calib. Data Modified : 9/16/2016 10:00:22 AM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=240,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.623	BB	0.1118	6.56376	0.2558	?
2	3.818	BB	0.1191	17.11245	0.6668	?
3	4.689	BB	0.0885	2478.52563	96.5824	7alpha-Hydroxyhydrocortisone
4	5.620	BB	0.0798	15.09304	0.5881	?
5	6.028	BB	0.0792	6.15554	0.2399	?

Sample Name: GR-8-295

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
6	7.613	BB	0.0704	1.49450	0.0582	?
7	8.616	BB	0.0815	4.84778	0.1889	?
8	9.323	BB	0.0872	3.46327	0.1350	?
9	10.072	BV	0.1086	24.10427	0.9393	?
10	10.432	VB	0.0866	3.30266	0.1287	?
11	11.458	BB	0.0993	5.56619	0.2169	?

Totals : 2566.22909

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