


Name: Hydrocortisone-9 β ,11 β -epoxide
Lot#: GR-17-201
Test Date: 09/17/2022 (re-test date: 09/17/2027)
CAS No.: 10072-97-6
MF: C₂₁H₂₈O₅
MW: 360.44
Appearance: Beige Solid
Purity: 98.4% by HPLC (average of two sample preparations)
¹H-NMR: Conforms (contains a trace of MeOH)
MS-ESI (+) Conforms (shows peak at m/z = 361.20 [M+H]⁺)
Storage Store at 0-5°C in a dry place away from direct sunlight

Approved by:

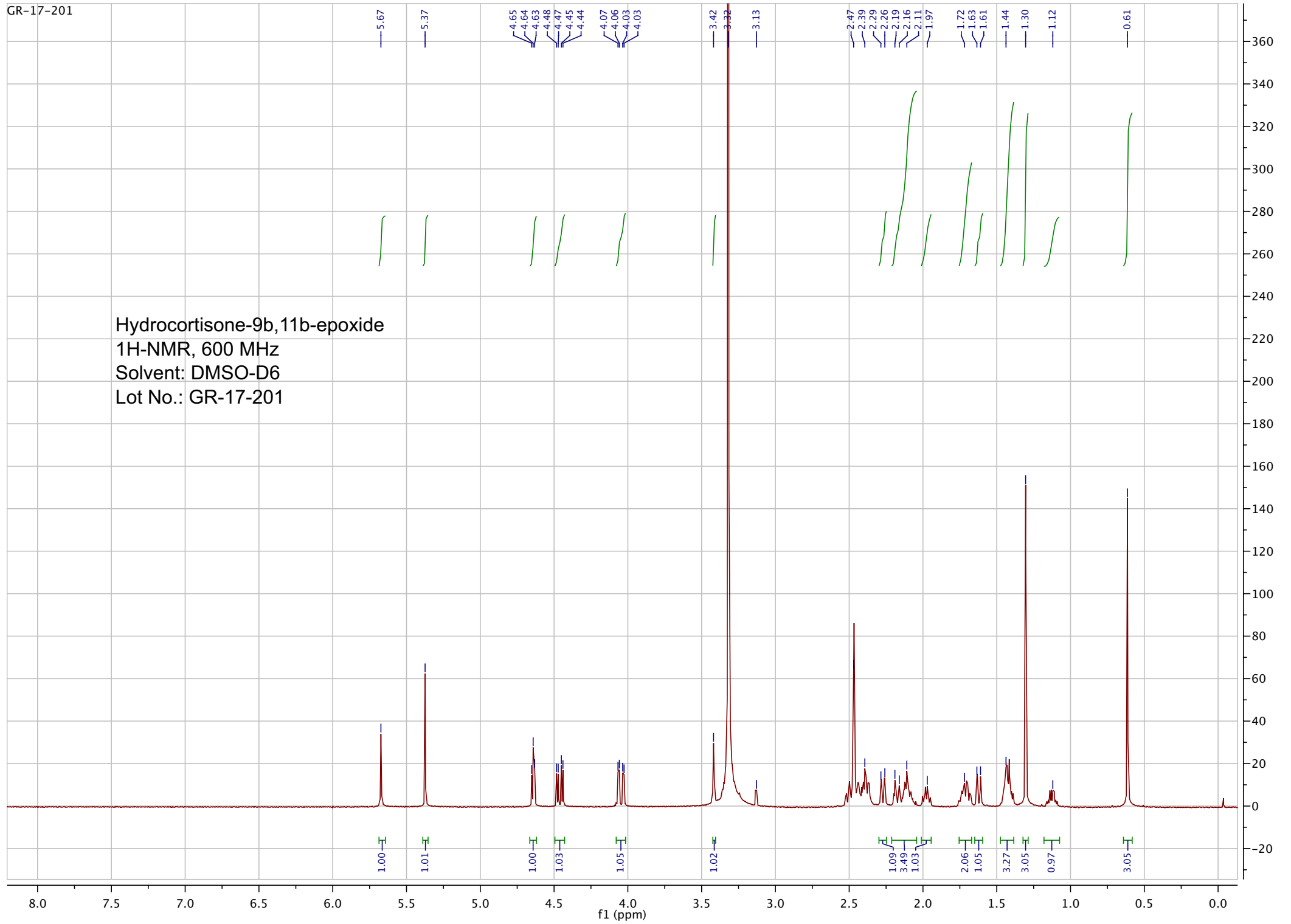
Date: 09/26/2022



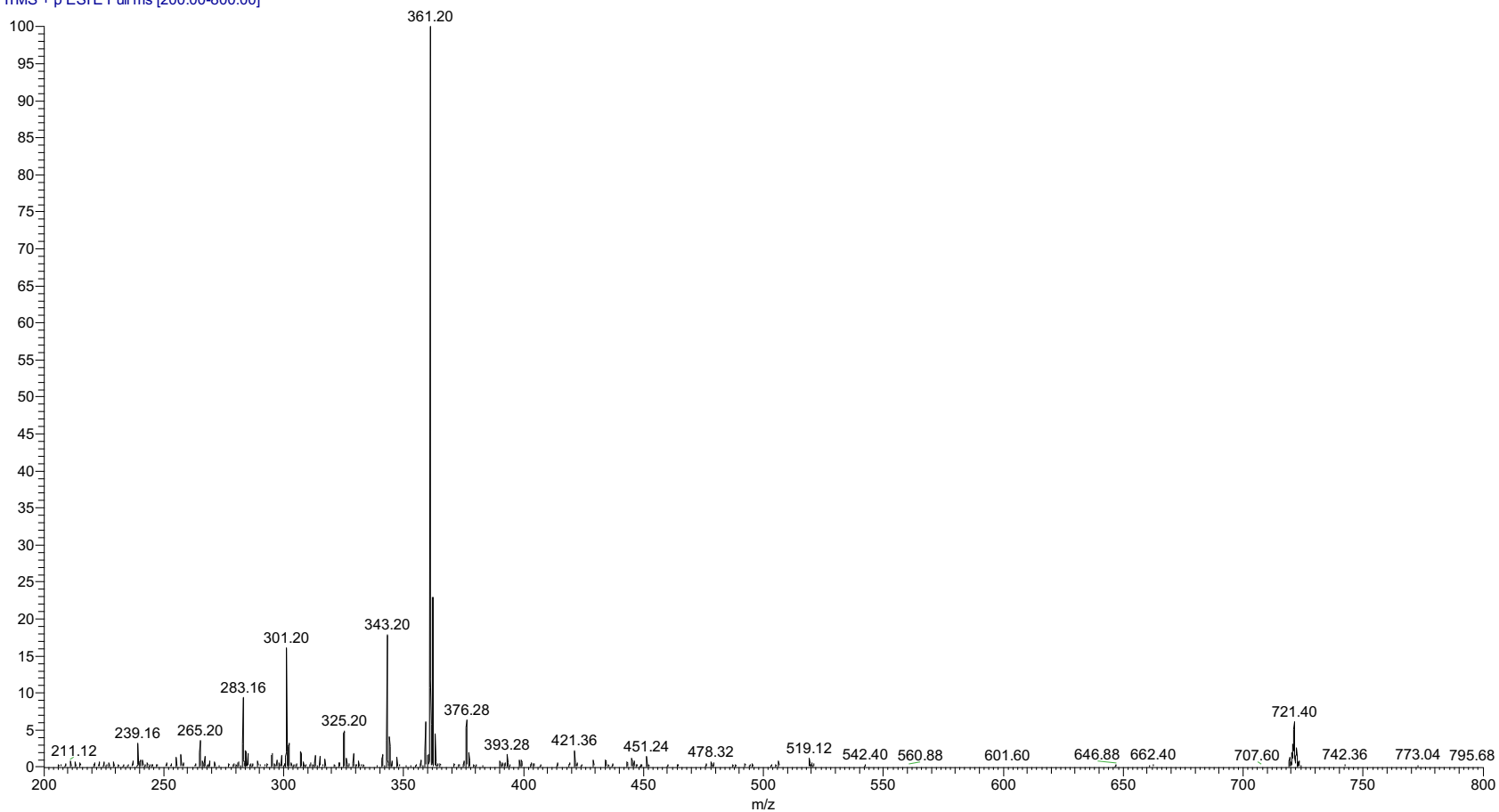
Viorica Rusu, QC/QA Manager

GR-17-201

Hydrocortisone-9b,11b-epoxide
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-17-201



pp_2022_061_GR_17_201_10#443 RT: 1.35 AV: 1 NL: 2.62E7
T: ITMS +p ESI E Full ms [200.00-800.00]



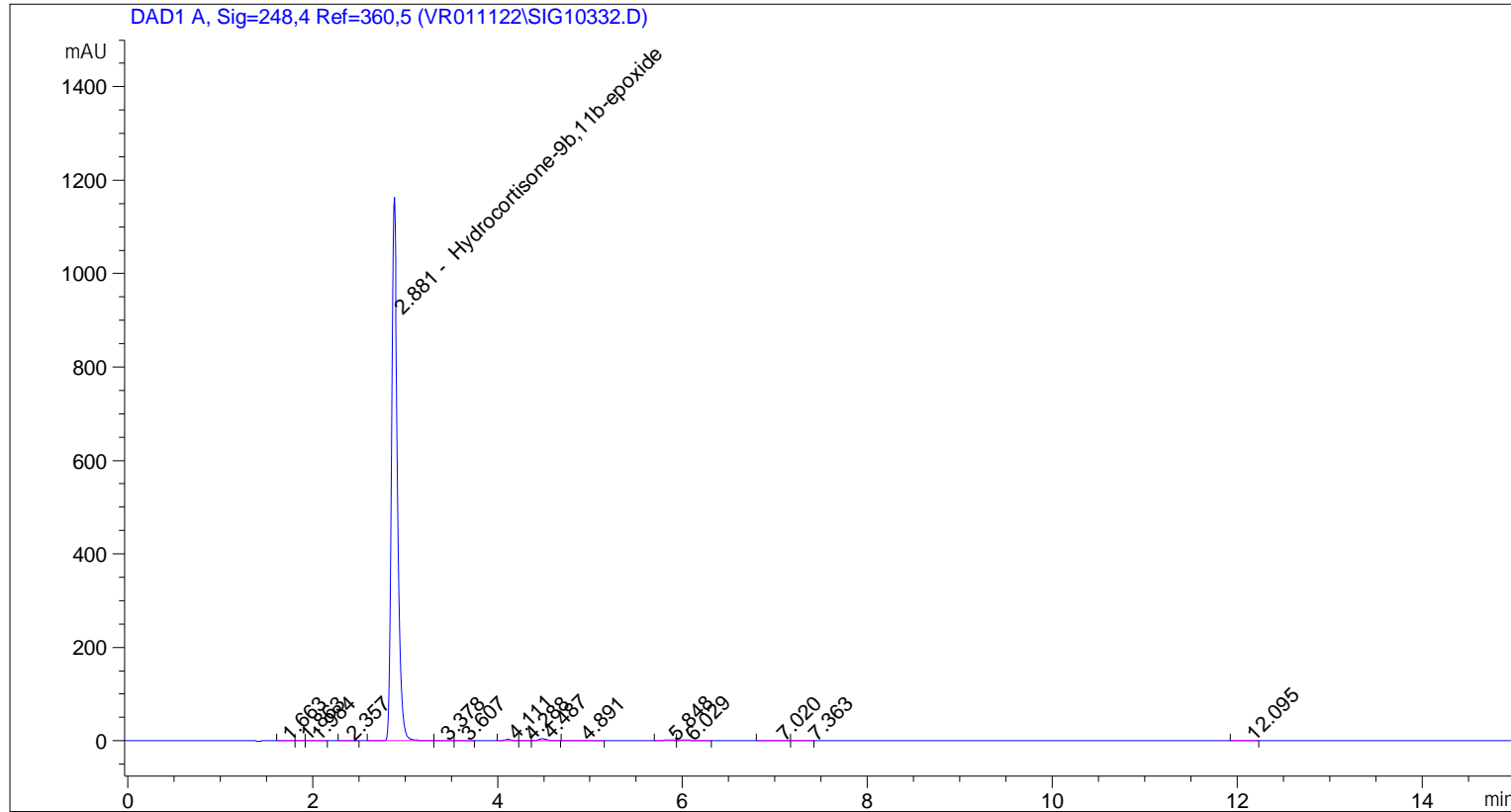
ESI-MS spectrum for sample GR-17-201. Shows monoisotopic $[M+H]^+$ mass.

Sample Name: GR-17-201

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 73
Injection Date  : 8/17/2022 1:01:51 PM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR081722_201.M
Last changed   : 8/17/2022 1:00:48 PM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR081722_201PM.M
Last changed   : 8/17/2022 1:40:41 PM by vrusu
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                          Area Percent Report
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Sorted By           :      Signal
Calib. Data Modified :      8/17/2022 1:39:15 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=248,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.663	BB	0.0793	1.79738	0.0332	?
2	1.863	BV	0.0551	6.08982e-1	0.0113	?
3	1.984	VB	0.0841	1.34526	0.0249	?
4	2.357	VB	0.1009	2.36317	0.0437	?
5	2.881	BV	0.0694	5329.73877	98.4924	Hydrocortisone-9b,11b-epoxide
6	3.378	VV	0.1086	1.99915	0.0369	?
7	3.607	VB	0.0824	1.34796	0.0249	?
8	4.111	BV	0.0863	14.82681	0.2740	?

Sample Name: GR-17-201

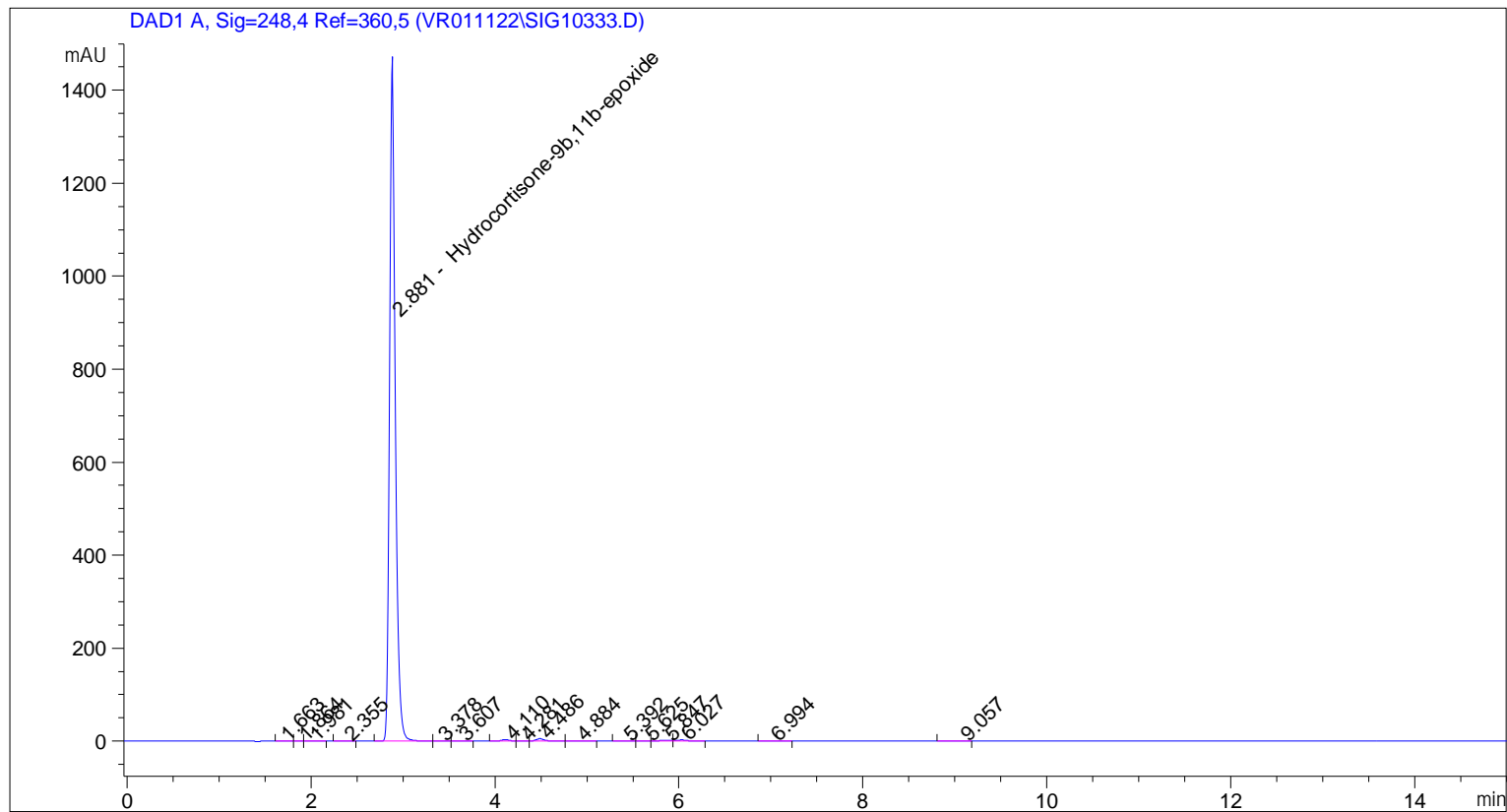
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.288	VB	0.0731	1.08753	0.0201	?
10	4.487	BB	0.0905	24.19872	0.4472	?
11	4.891	BB	0.1400	9.47762e-1	0.0175	?
12	5.848	BV	0.1146	11.94122	0.2207	?
13	6.029	VB	0.1219	15.12362	0.2795	?
14	7.020	BV	0.1373	2.47815	0.0458	?
15	7.363	VV	0.1209	8.44349e-1	0.0156	?
16	12.095	BV	0.1144	6.72387e-1	0.0124	?

Totals : 5411.32121

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 74
Injection Date  : 8/17/2022 1:18:43 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR081722_201.M
Last changed    : 8/17/2022 1:17:34 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081722_201PM.M
Last changed    : 8/17/2022 1:40:41 PM by vrusu
  
```



Area Percent Report

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Sorted By           : Signal
Calib. Data Modified : 8/17/2022 1:39:15 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=248,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.663	BV	0.0709	2.46560	0.0360	?
2	1.864	VV	0.0576	7.06884e-1	0.0103	?
3	1.981	VB	0.0785	1.44654	0.0211	?
4	2.355	VV	0.0936	2.86085	0.0417	?
5	2.881	VV	0.0695	6749.25146	98.4481	Hydrocortisone-9b,11b-epoxide
6	3.378	VV	0.1084	2.44967	0.0357	?
7	3.607	VV	0.1075	1.99995	0.0292	?
8	4.110	BV	0.0887	19.72533	0.2877	?

Sample Name: GR-17-201 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.281	VV	0.0865	2.02721	0.0296	?
10	4.486	VB	0.0918	31.45077	0.4588	?
11	4.884	BV	0.0930	6.79042e-1	9.905e-3	?
12	5.392	VB	0.0809	5.92964e-1	8.649e-3	?
13	5.625	BV	0.0903	7.56742e-1	0.0110	?
14	5.847	VV	0.1225	16.31042	0.2379	?
15	6.027	VB	0.1222	19.77083	0.2884	?
16	6.994	BV	0.1330	2.04450	0.0298	?
17	9.057	BV	0.1573	1.10399	0.0161	?

Totals : 6855.64276

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*** End of Report ***