

<b>Name:</b>	<b>10β-Hydroxy Levonorgestrel</b>
<b>Lot#:</b>	GR-8-027
<b>Test Date:</b>	10/28/2020 (re-test date: 10/28/2025)
<b>CAS No.:</b>	21508-50-9
<b>MF:</b>	C <sub>21</sub> H <sub>28</sub> O <sub>3</sub>
<b>MW:</b>	328.45
<b>Appearance:</b>	White solid
<b>Purity:</b>	98.3% by HPLC (average of two sample preparations)
<b><sup>1</sup>H-NMR:</b>	Conforms (contains a trace of EtOAc)
<b>MS-ESI (+)</b>	Conforms (shows peak at m/z = 329.21 [M+H] <sup>+</sup> )
<b>Storage</b>	Long term store at 0 - 5° C in a dry place away from direct sunlight

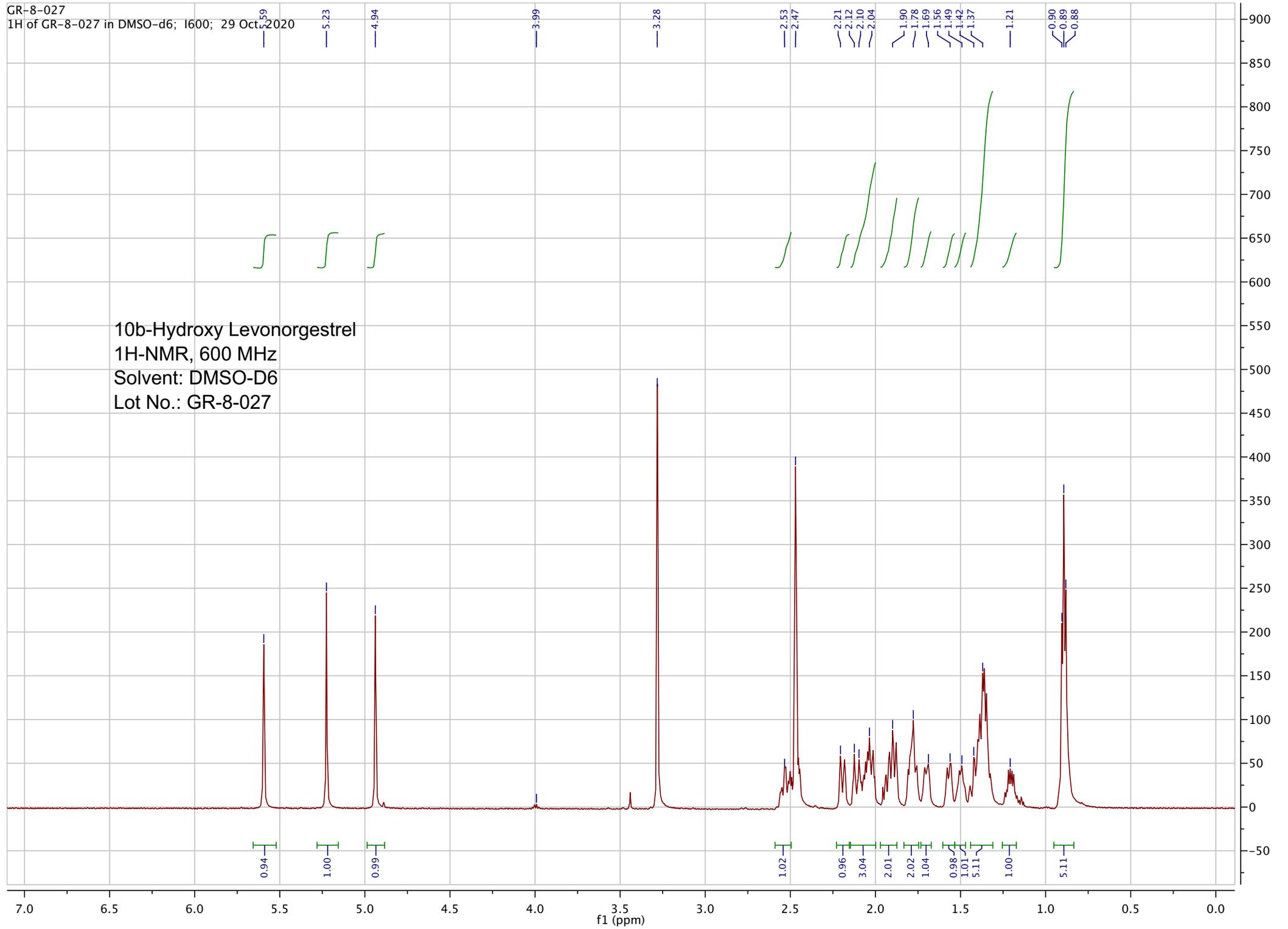
Approved by:

Date: 11/05/2020

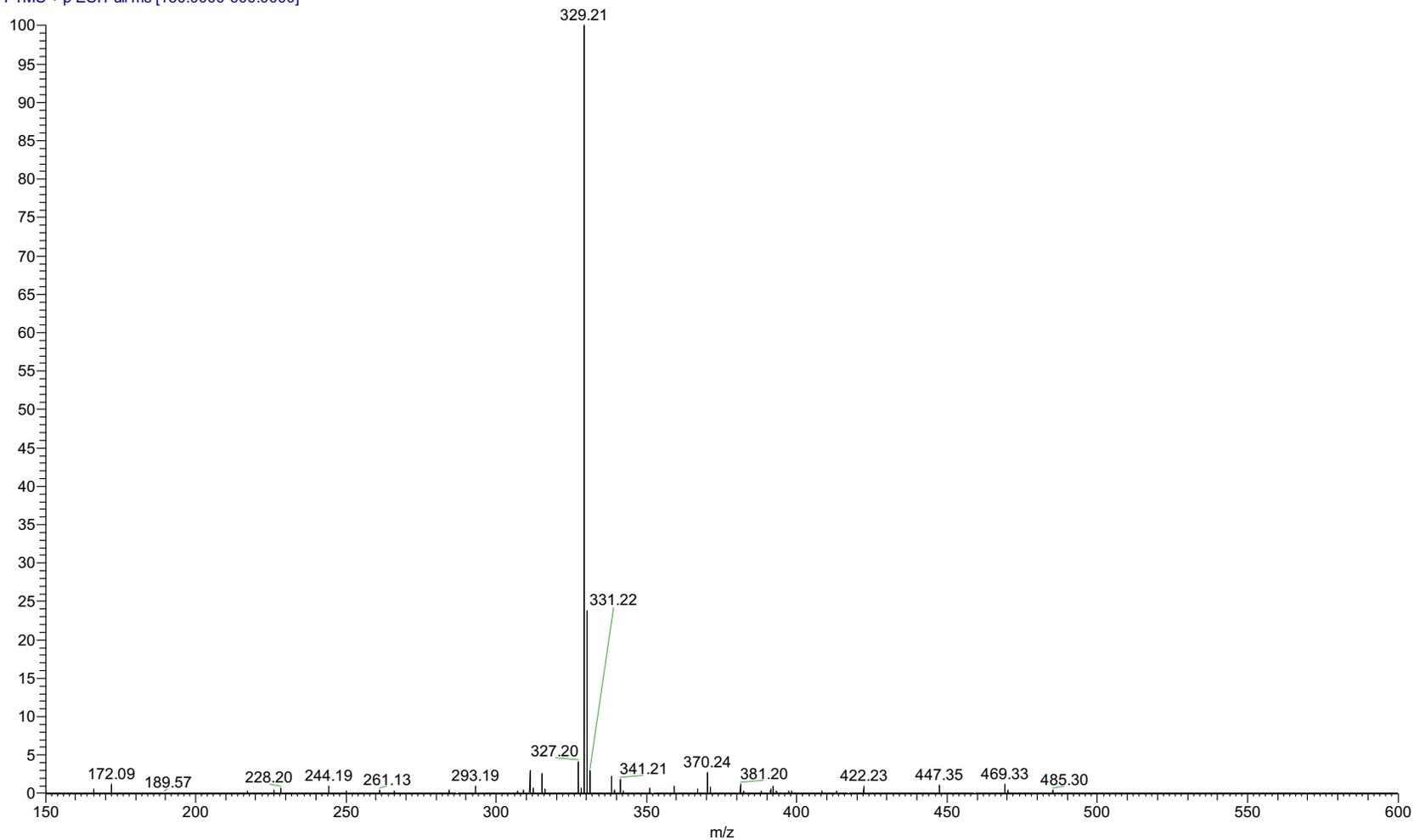


Viorica Rusu, QC/QA Manager

GR-8-027  
1H of GR-8-027 in DMSO-d6; 1600; 29 Oct 2020



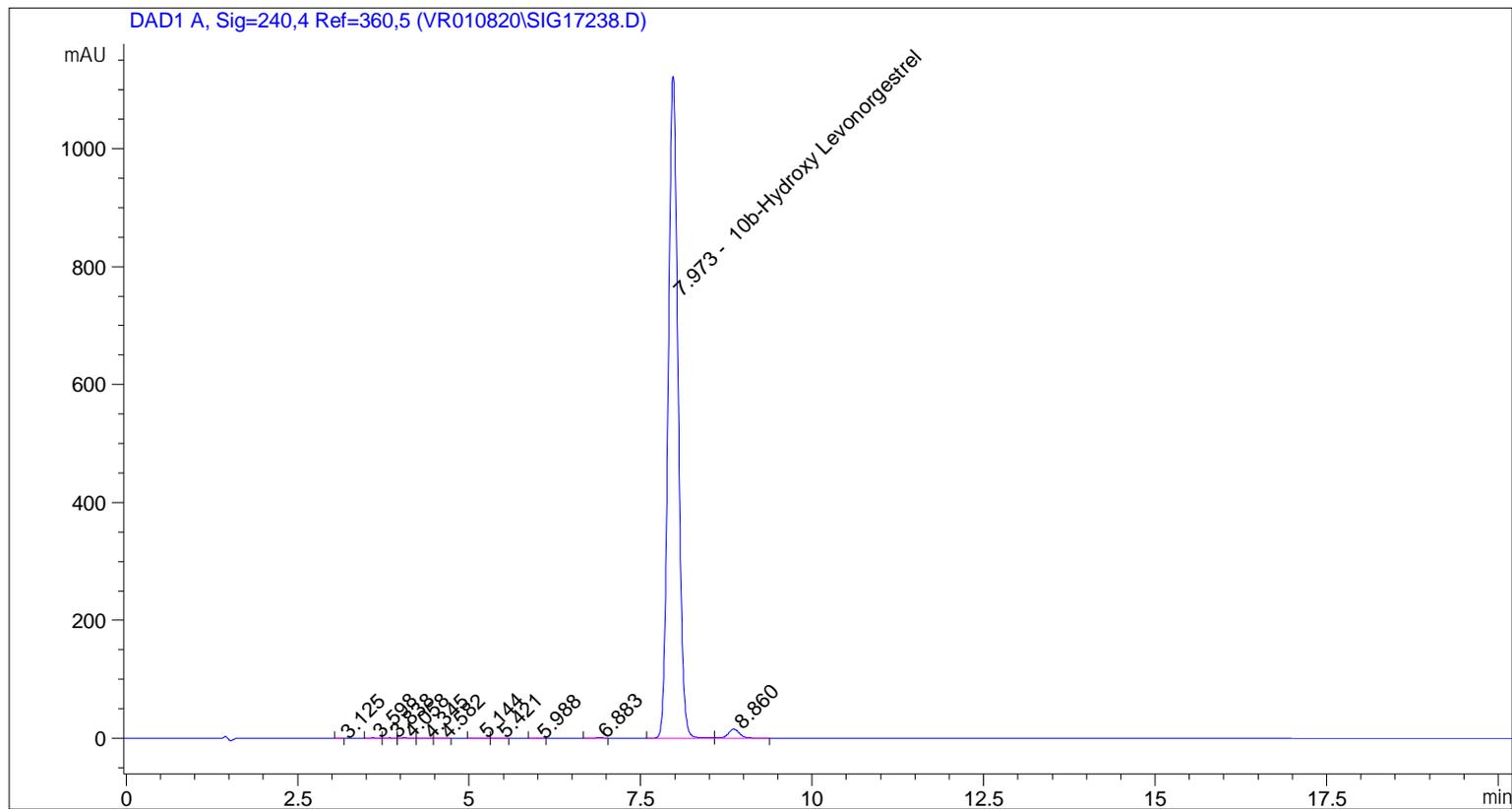
pp\_2020\_032\_GR\_8\_027\_1#917 RT: 2.06 AV: 1 NL: 5.13E8  
T: FTMS + p ESI Full ms [150.0000-600.0000]



ESI-MS spectrum for sample GR-8-027. Shows monoisotopic [M+H]<sup>+</sup> mass.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 85
Injection Date  : 10/28/2020 8:35:51 AM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR102820_027.M
Last changed    : 10/28/2020 8:34:55 AM by vrusu
Analysis Method  : C:\CHEM32\1\METHODS\VR102820_027PM.M
Last changed    : 10/28/2020 1:32:08 PM by vrusu
  
```



Area Percent Report

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Sorted By           : Signal
Calib. Data Modified : 10/28/2020 1:31:48 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.125	BB	0.0753	5.94711e-1	5.241e-3	?
2	3.598	BV	0.1066	3.02784	0.0267	?
3	3.838	VV	0.1006	2.94878	0.0260	?
4	4.058	VB	0.1018	3.80998	0.0336	?
5	4.345	BV	0.1089	1.53874	0.0136	?
6	4.582	VB	0.1198	2.47721	0.0218	?
7	5.144	BV	0.1106	3.31409	0.0292	?
8	5.421	VB	0.1125	3.10089	0.0273	?

Sample Name: GR-8-027

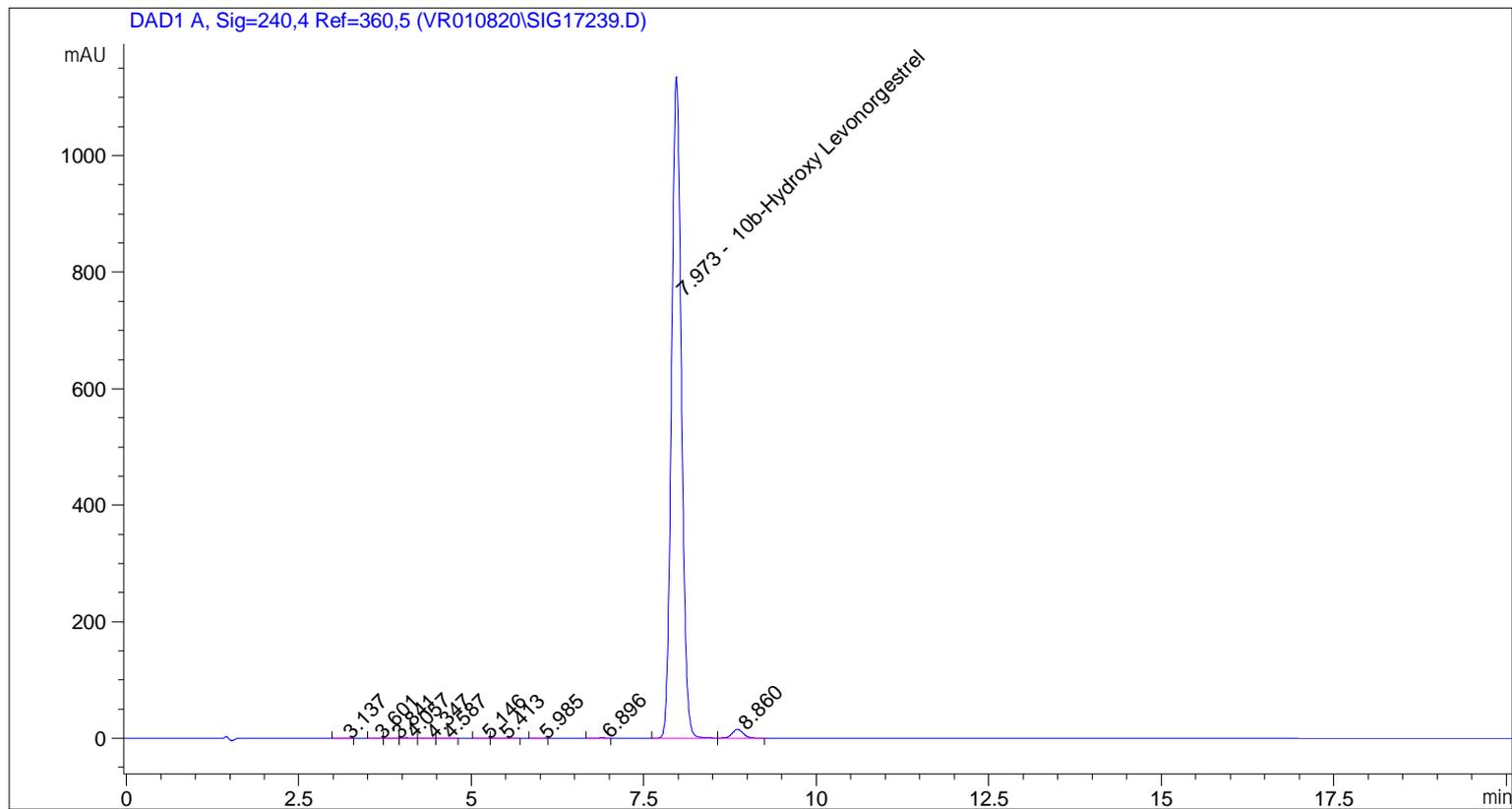
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	5.988	BB	0.1133	2.39279	0.0211	?
10	6.883	BB	0.1191	4.10690	0.0362	?
11	7.973	BV	0.1558	1.11488e4	98.2574	10b-Hydroxy Levonorgestrel
12	8.860	VB	0.1740	170.40985	1.5019	?

Totals : 1.13465e4

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

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 86
Injection Date  : 10/28/2020 8:57:51 AM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR102820_027.M
Last changed    : 10/28/2020 8:56:55 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR102820_027PM.M
Last changed    : 10/28/2020 1:34:46 PM by vrusu
  
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Area Percent Report

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Sorted By           : Signal
Calib. Data Modified : 10/28/2020 1:31:48 PM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.137	BB	0.1195	1.20792	0.0106	?
2	3.601	BV	0.1028	3.00934	0.0263	?
3	3.841	VV	0.1021	2.70892	0.0237	?
4	4.057	VB	0.1031	3.73806	0.0327	?
5	4.347	BV	0.1082	1.55203	0.0136	?
6	4.587	VB	0.1062	2.79795	0.0245	?
7	5.146	BV	0.1044	2.88498	0.0252	?
8	5.413	VB	0.1432	3.97375	0.0348	?

Sample Name: GR-8-027

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	5.985	BB	0.0984	2.26765	0.0198	?
10	6.896	BB	0.1180	3.93105	0.0344	?
11	7.973	BV	0.1534	1.12347e4	98.2963	10b-Hydroxy Levonorgestrel
12	8.860	VB	0.1706	166.65102	1.4581	?

Totals : 1.14294e4

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