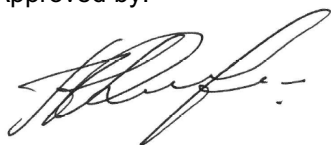


Name: Dienogest Impurity G
Lot#: GR-15-055
Test Date: 08/13/2020 (re-test date: 08/13/2025)
CAS No.: 86153-38-0
MF: C₂₀H₂₃NO₂
MW: 309.40
Appearance: Off-White Solid
Purity: 98.1% by HPLC (average of two sample preparations)
¹H-NMR: Conforms
MS-ESI (-) Conforms (shows peak at m/z = 308.17 [M-H]⁻)
Storage Store at 0-8°C in a dry place away from direct sunlight

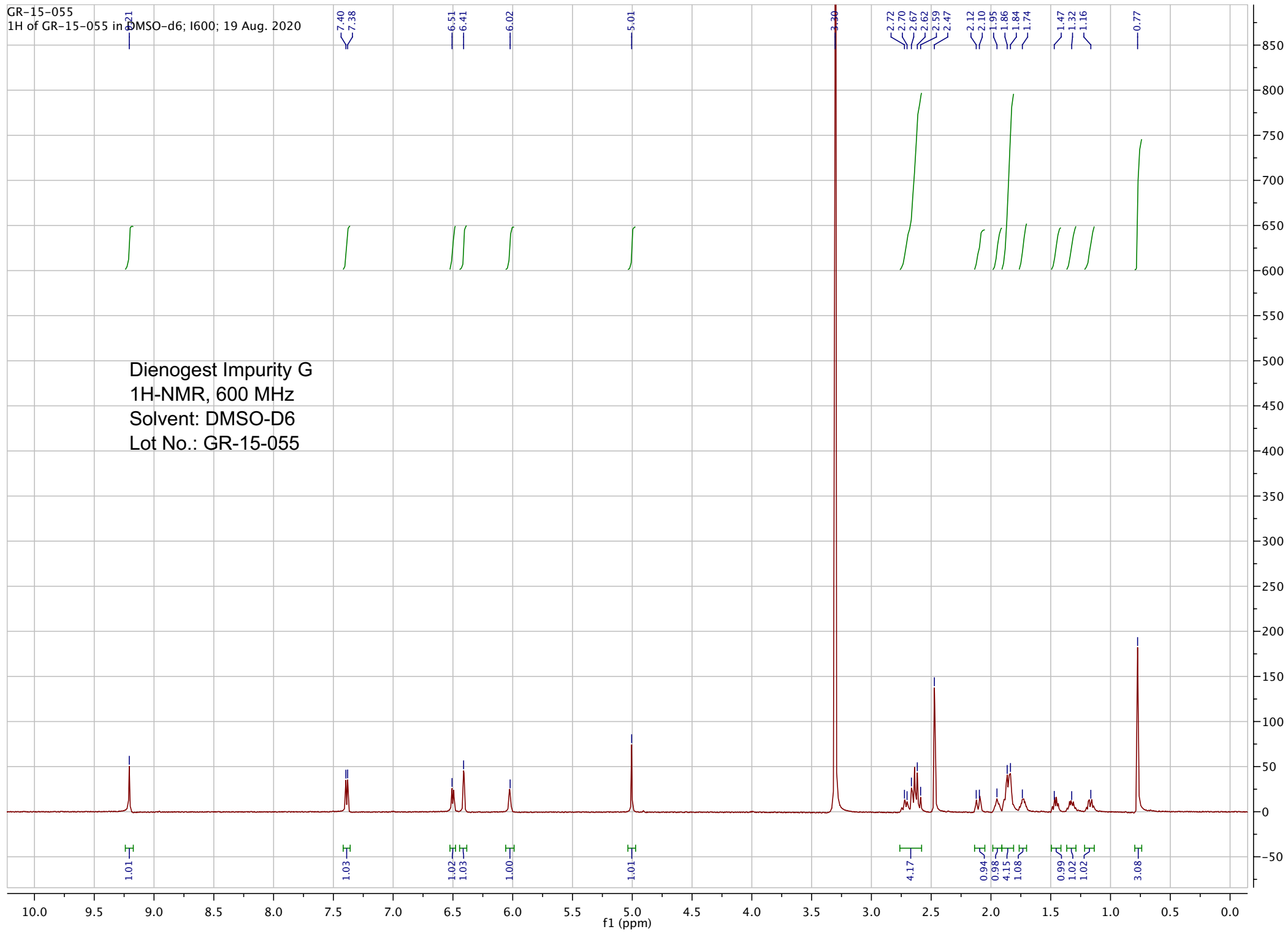
Approved by:

Date: 08/20/2020

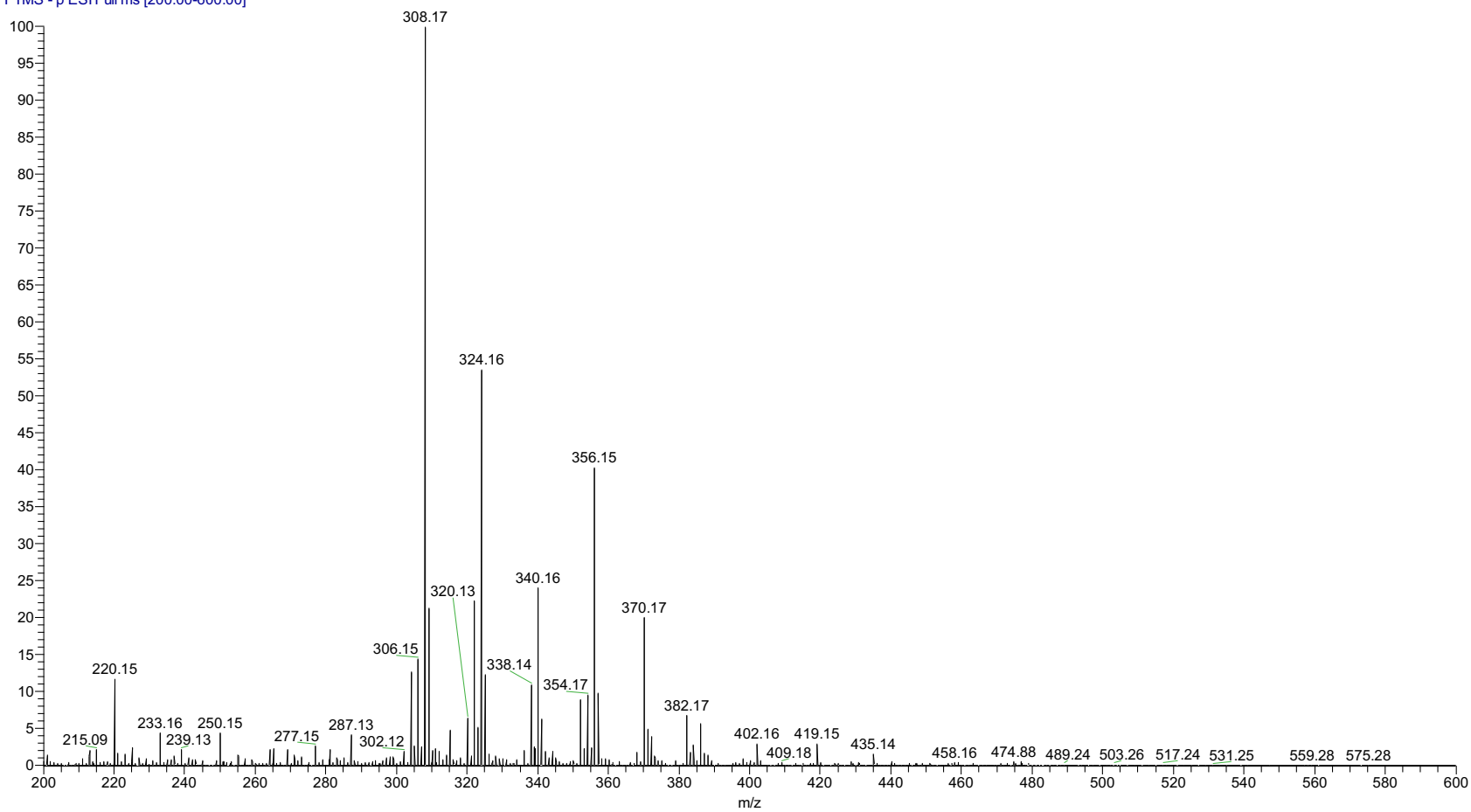


Viorica Rusu, QC/QA Manager

GR-15-055
1H of GR-15-055 in DMSO-d6; 1600; 19 Aug. 2020



pp_2020_017_GR15055_neg_001#407 RT: 2.93 AV: 1 NL: 2.04E5
T: FTMS - p ESI Full ms [200.00-600.00]

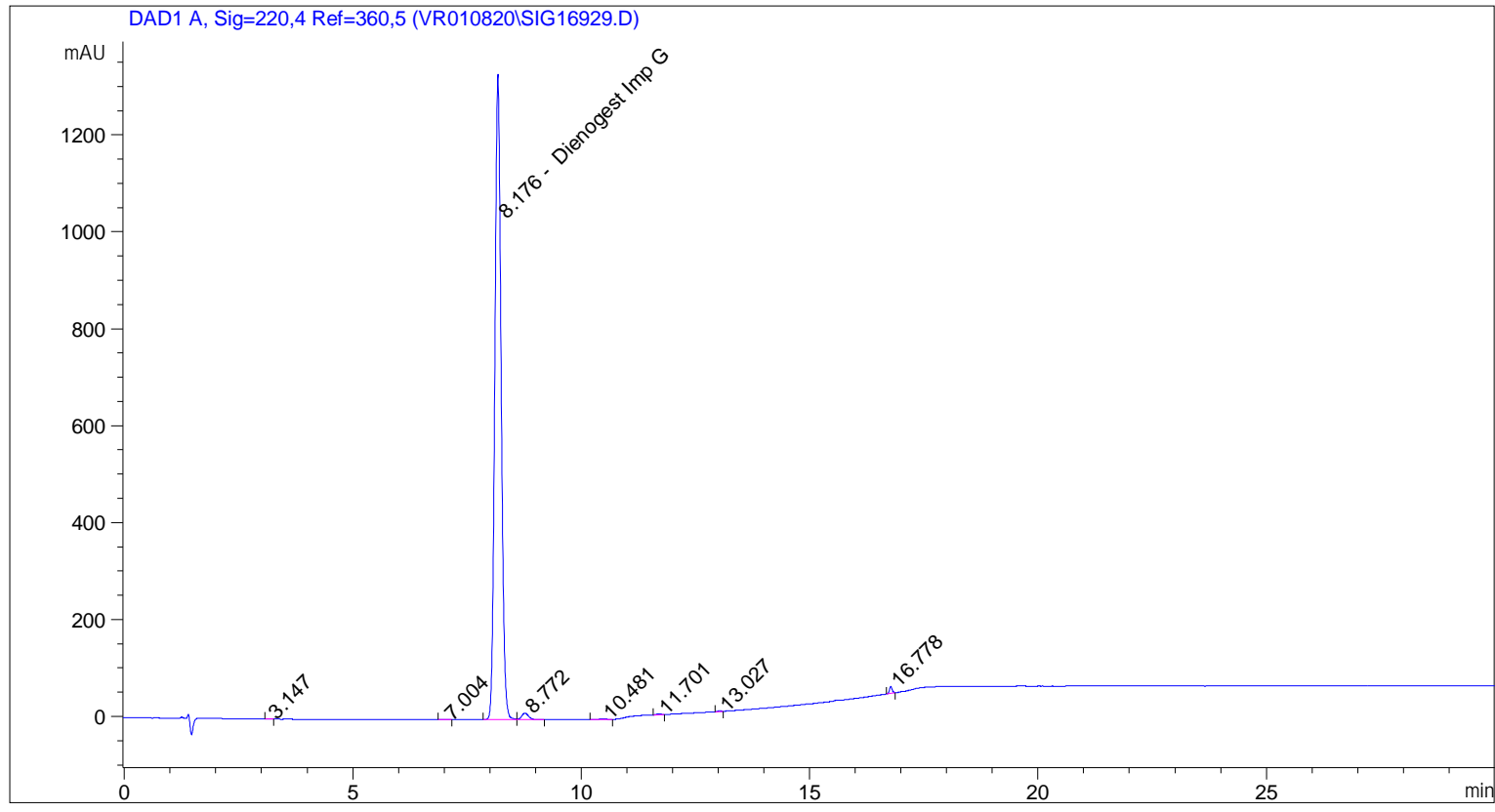


ESI-MS spectrum for sample GR-15-055. Shows monoisotopic [M-H]⁻ mass.

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 69
Injection Date  : 8/13/2020 7:51:43 AM
                                           Inj Volume : 10.0 µl

Acq. Method     : C:\CHEM32\1\METHODS\VR_081320_055.M
Last changed    : 8/13/2020 7:50:33 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081320_055PM.M
Last changed    : 8/13/2020 8:24:22 AM by vrusu
                  (modified after loading)
  
```



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

```

Sorted By      :      Signal
Calib. Data Modified :      Thursday, August 13, 2020 8:24:21 AM
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	3.147	BB	0.0681	3.93467	0.0298	?
2	7.004	BB	0.1220	5.44519	0.0413	?
3	8.176	BV	0.1513	1.29396e4	98.1063	Dienogest Imp G
4	8.772	VB	0.1646	145.68765	1.1046	?
5	10.481	BB	0.1583	18.25180	0.1384	?
6	11.701	BB	0.1088	11.13994	0.0845	?
7	13.027	BB	0.0725	8.27664	0.0628	?

Sample Name: GR-15-055

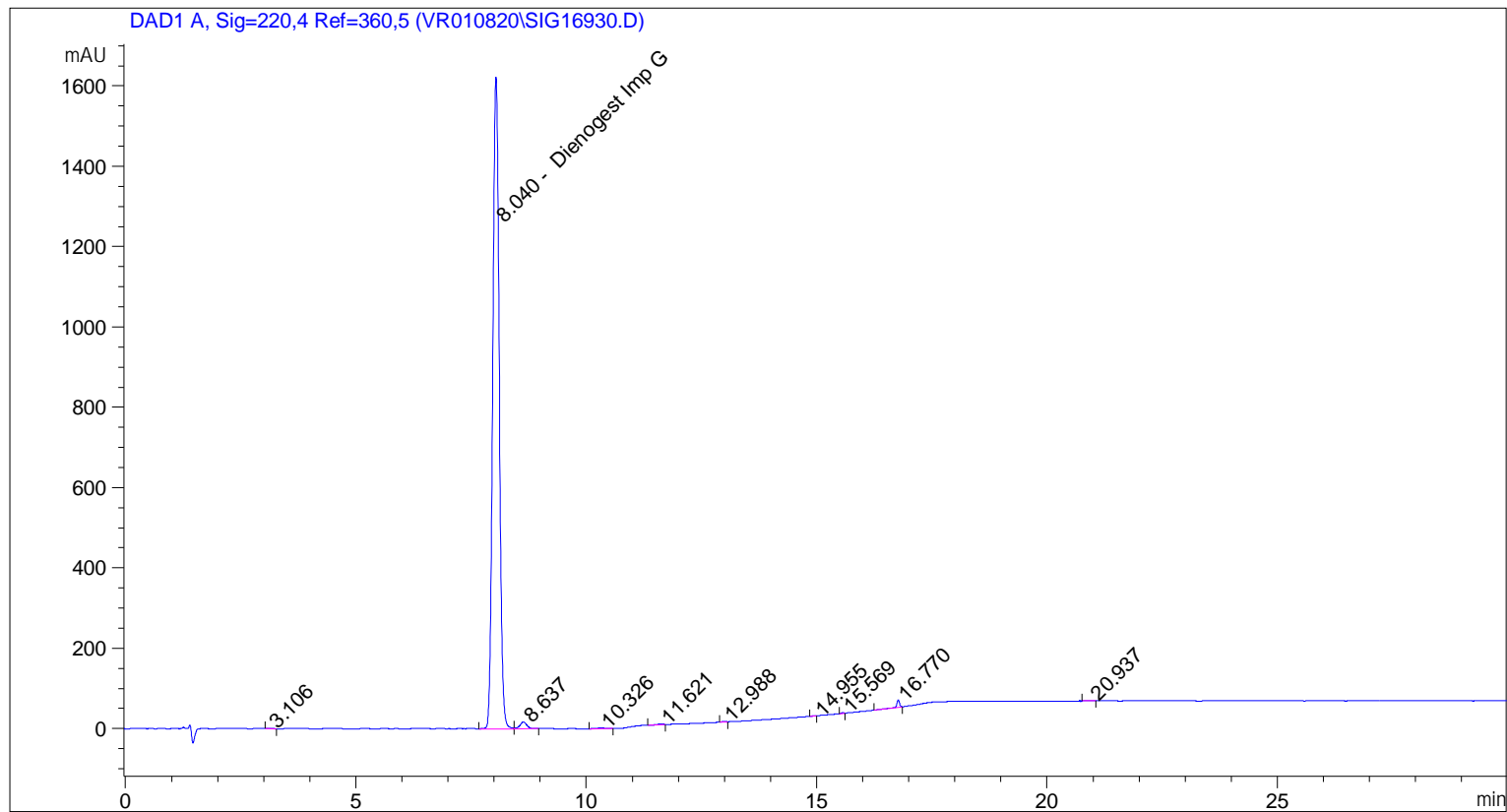
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
8	16.778	BB	0.0621	57.02527	0.4324	?

Totals : 1.31893e4

=====
*** End of Report ***

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 70
Injection Date  : 8/13/2020 8:28:50 AM
                                           Inj Volume : 10.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR_081320_055.M
Last changed   : 8/13/2020 8:25:07 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR081320_055PM.M
Last changed   : 8/13/2020 9:01:57 AM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      Thursday, August 13, 2020 8:24:21 AM
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	3.106	BB	0.0738	4.46949	0.0278	?
2	8.040	BV	0.1514	1.57755e4	98.0580	Dienogest Imp G
3	8.637	VB	0.1607	176.83676	1.0992	?
4	10.326	BB	0.1704	25.76609	0.1602	?
5	11.621	BB	0.1148	10.93645	0.0680	?
6	12.988	BB	0.0698	9.70937	0.0604	?
7	14.955	BB	0.0583	2.70498	0.0168	?
8	15.569	BB	0.0593	4.43594	0.0276	?

Sample Name: GR-15-055

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	16.770	BB	0.0640	73.11440	0.4545	?
10	20.937	BB	0.1064	4.45671	0.0277	?

Totals : 1.60879e4

=====
*** End of Report ***