

**Name:** 17-epi-Ethynyl Estradiol  
**Lot#:** GR-18-041  
**Test Date:** 02/21/2023 (re-test date: 02/21/2028)  
**CAS No.:** 4717-38-8  
**MF:** C<sub>20</sub>H<sub>24</sub>O<sub>2</sub>  
**MW:** 296.41  
**Appearance:** Off-white solid  
**Purity:** 97.8% by HPLC (average of two sample preparations)  
**<sup>1</sup>H-NMR:** Conforms  
**MS-ESI (-)** Conforms (shows peak at m/z = 295.17 [M-H]<sup>-</sup>)  
**Storage** Store at 0-5°C in a dry place away from direct sunlight

Approved by:

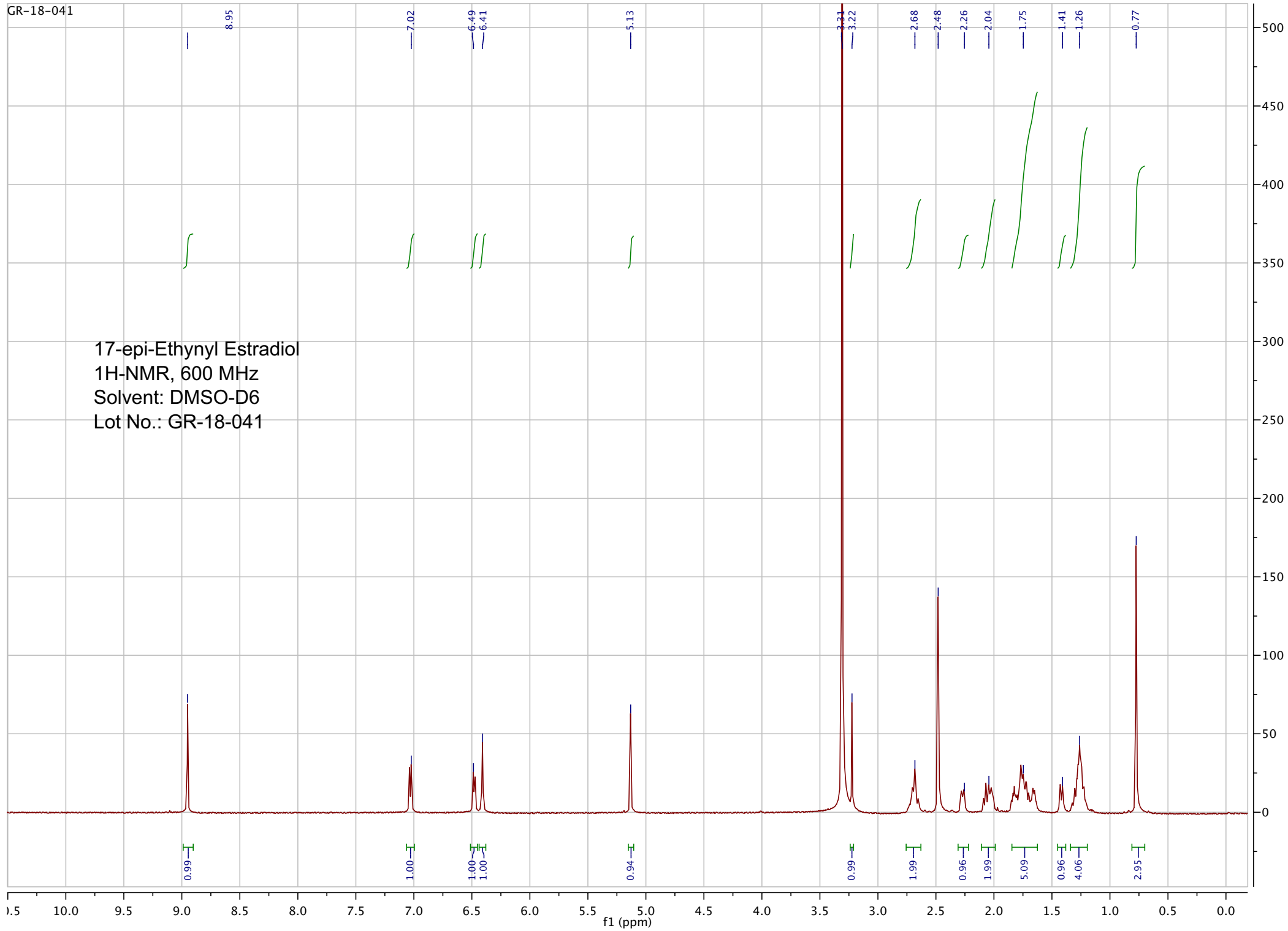
Date: 02/21/2023



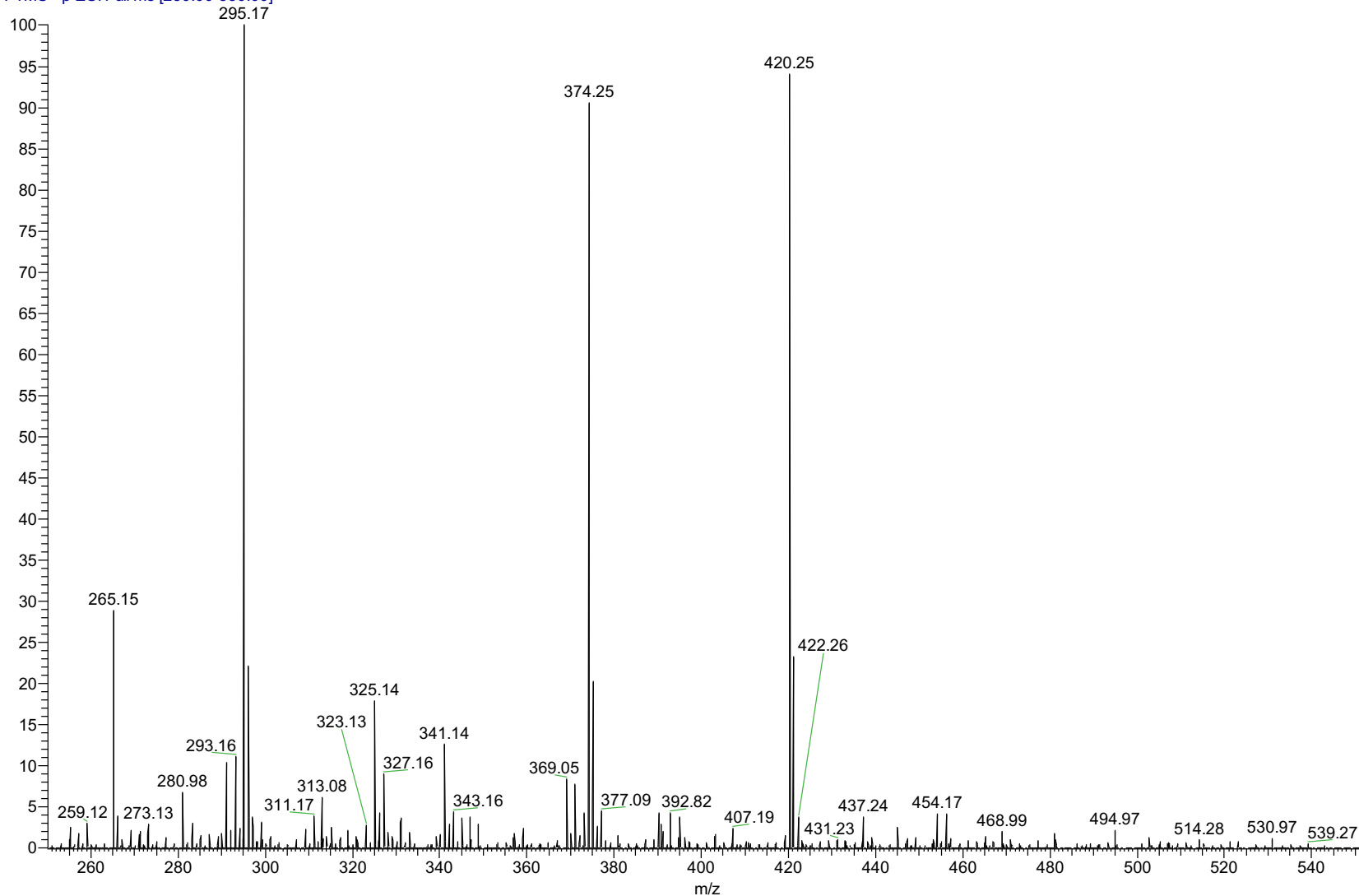
Viorica Rusu, QC/QA Manager

GR-18-041

17-epi-Ethynyl Estradiol  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-18-041



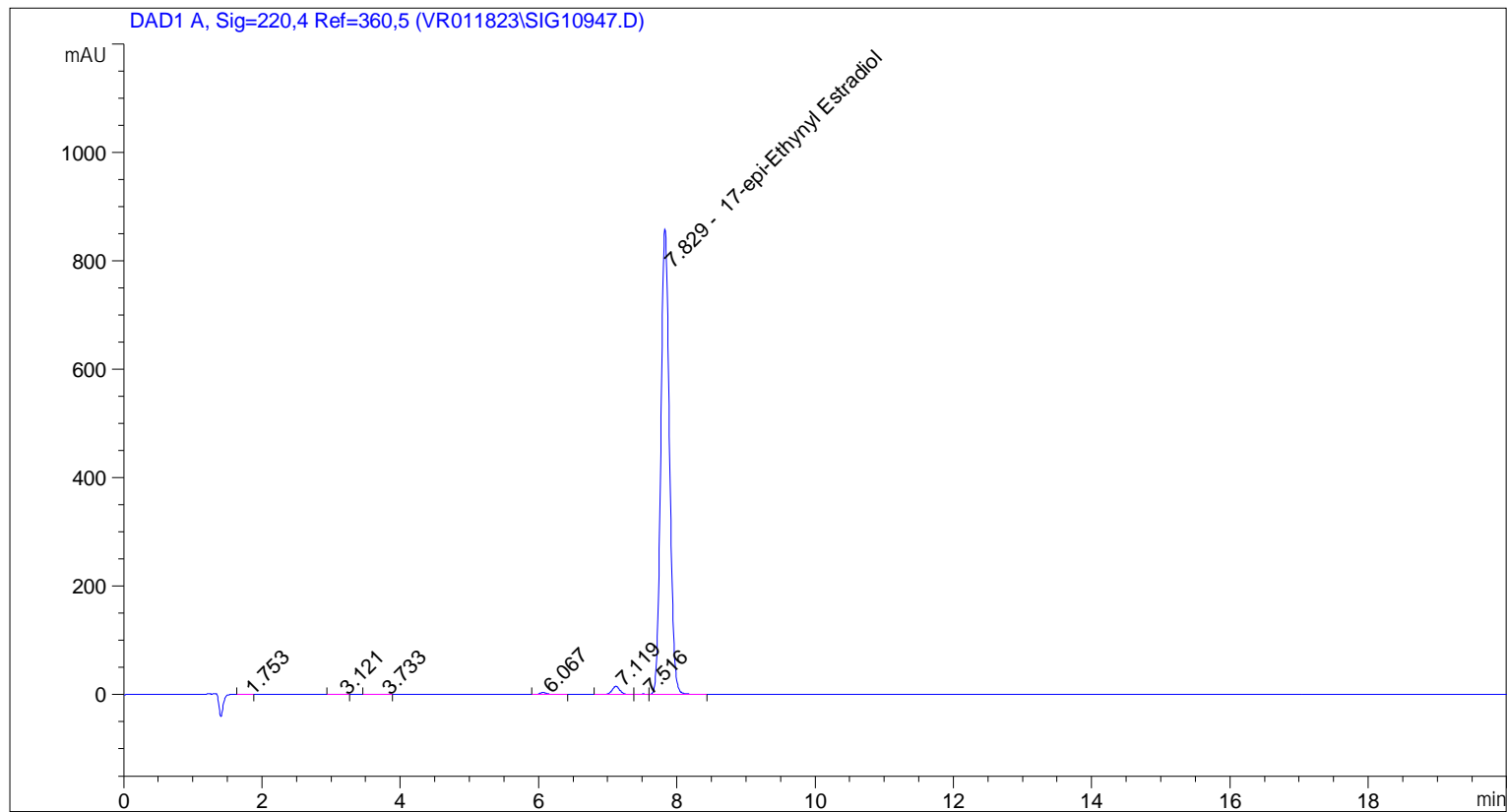
pp\_2023\_011\_GR\_18\_041\_3 #279-302 RT: 2.04-2.17 AV: 24 NL: 1.4  
T: FTMS - p ESI Full ms [250.00-550.00]



ESI-MS data for sample GR-18-041. Shows monoisotopic [M-H]- mass.

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 65
Injection Date  : 2/21/2023 9:33:49 AM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022123_041.M
Last changed    : 2/21/2023 9:32:57 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022123_041PM.M
Last changed    : 2/21/2023 10:28:58 AM by vrusu
  
```



Area Percent Report

```

Sorted By           : Signal
Calib. Data Modified : 2/21/2023 10:24:38 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	1.753	BB	0.0878	1.43852	0.0189	?
2	3.121	BB	0.1218	2.51173	0.0330	?
3	3.733	BB	0.1118	3.85990	0.0507	?
4	6.067	BB	0.1148	29.00953	0.3812	?
5	7.119	BV	0.1243	121.88311	1.6017	?
6	7.516	VV	0.1228	6.98336	0.0918	?
7	7.829	VB	0.1352	7444.14258	97.8227	17-epi-Ethynyl Estradiol

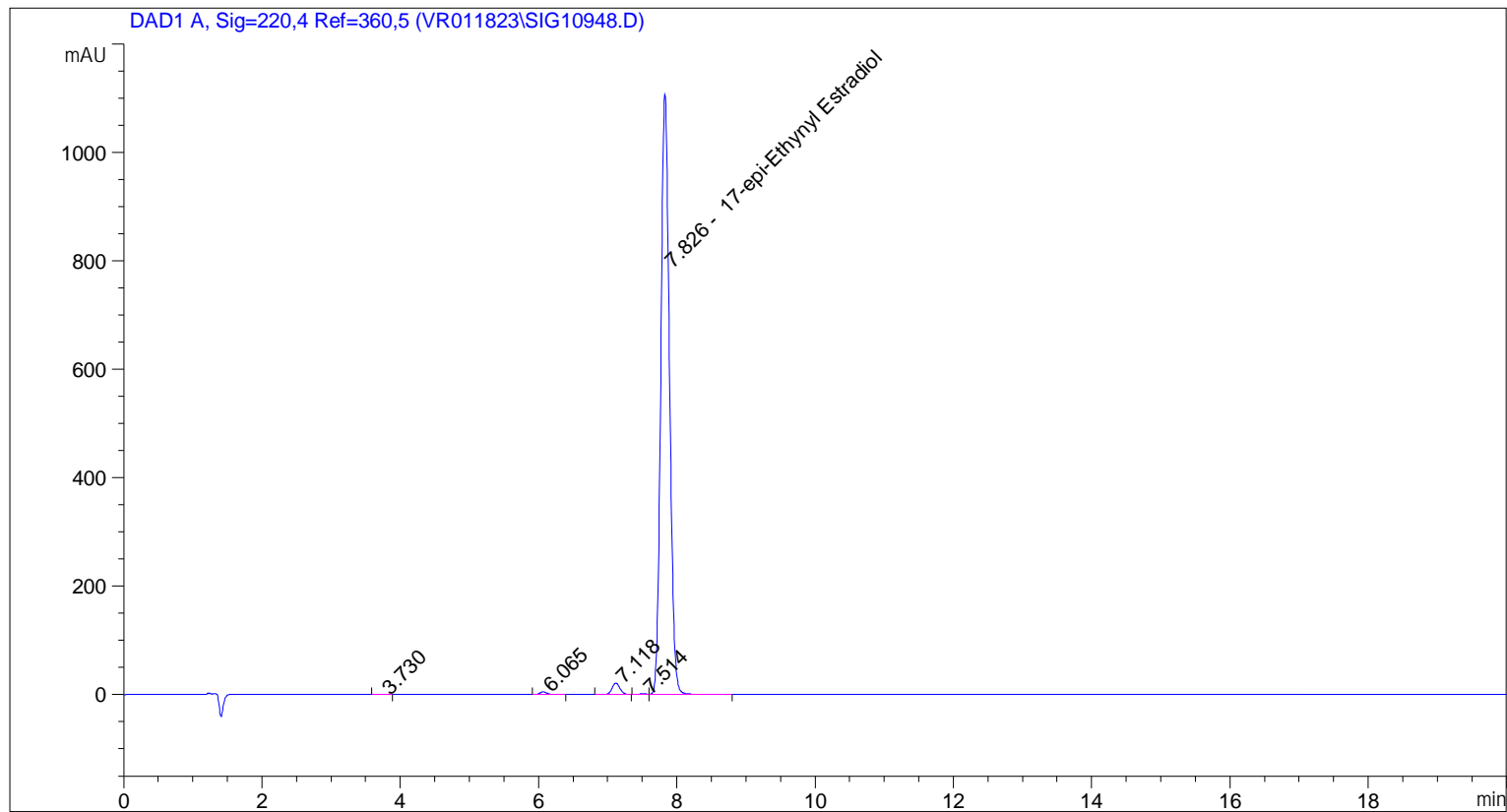
Sample Name: GR-18-041

Totals : 7609.82874

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

=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 66  
Injection Date : 2/21/2023 9:55:55 AM Inj Volume : 10.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR022123\_041.M  
Last changed : 2/21/2023 9:55:00 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR022123\_041PM.M  
Last changed : 2/21/2023 10:28:58 AM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : 2/21/2023 10:24:38 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	3.730	BB	0.0928	3.42875	0.0347	?
2	6.065	BB	0.1083	34.90543	0.3528	?
3	7.118	BB	0.1232	170.81624	1.7265	?
4	7.514	BV	0.1197	10.34598	0.1046	?
5	7.826	VB	0.1380	9674.54980	97.7815	17-epi-Ethynyl Estradiol

Totals : 9894.04621

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