

**Name:** Etonogetrel-D6 (major)  
**Lot#:** GR-3-023  
**Test Date:** 02/16/2022 (re-test date: 02/16/2027)  
**CAS No.:** 54048-10-1 (unlabelled)  
**MF:** C<sub>22</sub>H<sub>22</sub>D<sub>6</sub>O<sub>2</sub>  
**MW:** 330.49  
**Appearance:** White crystals  
**Purity:** 99.7% by HPLC (average of two sample preparations); >98% atom D  
**<sup>1</sup>H-NMR:** Conforms (contains ~3% D5 form and a trace of MeOH)  
**MS-ESI (+)** Conforms (shows peak at m/z = 331.25 [M+H]<sup>+</sup>)  
**Storage** Store at -18°C in a dry place away from direct sunlight

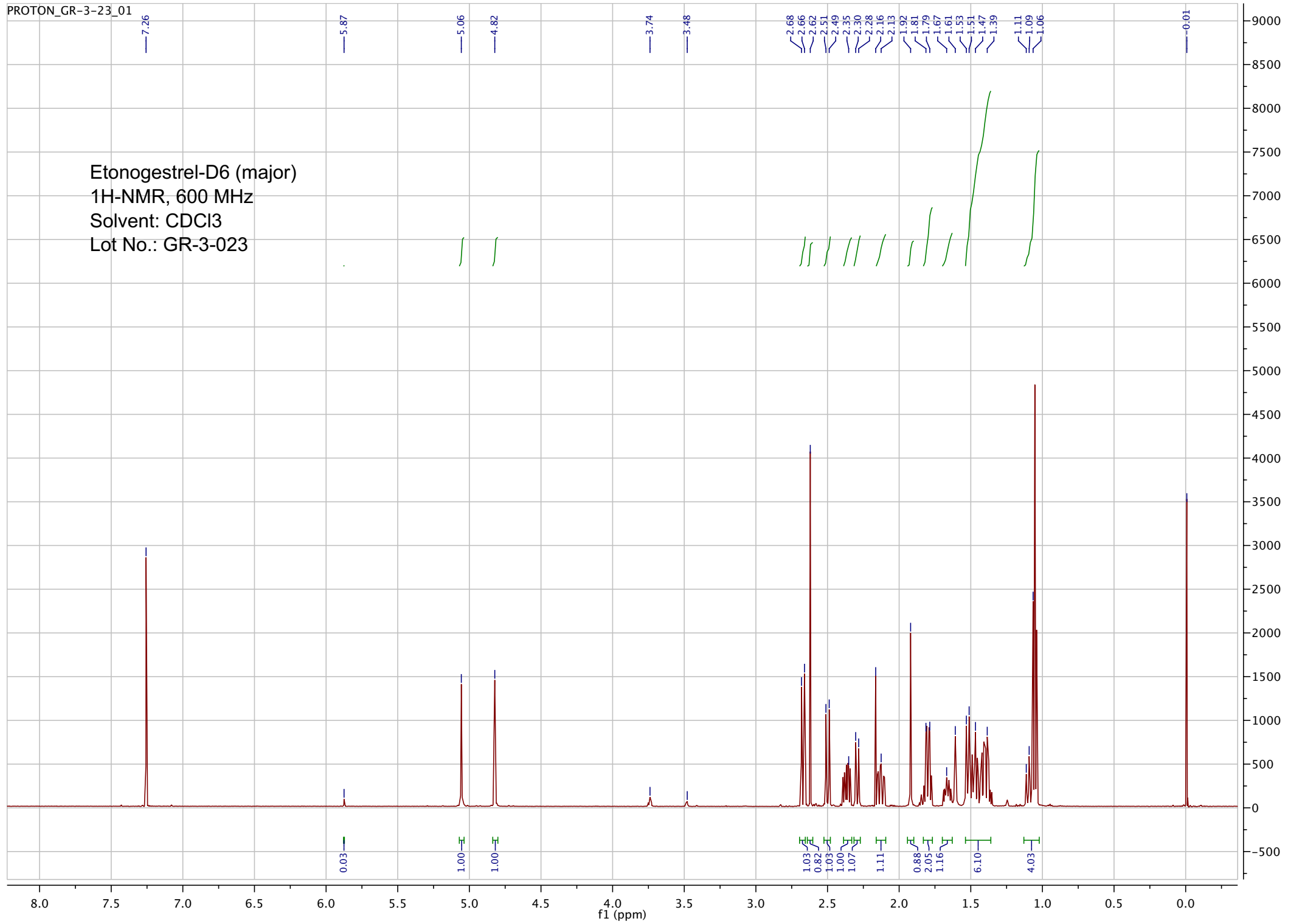
Approved by:

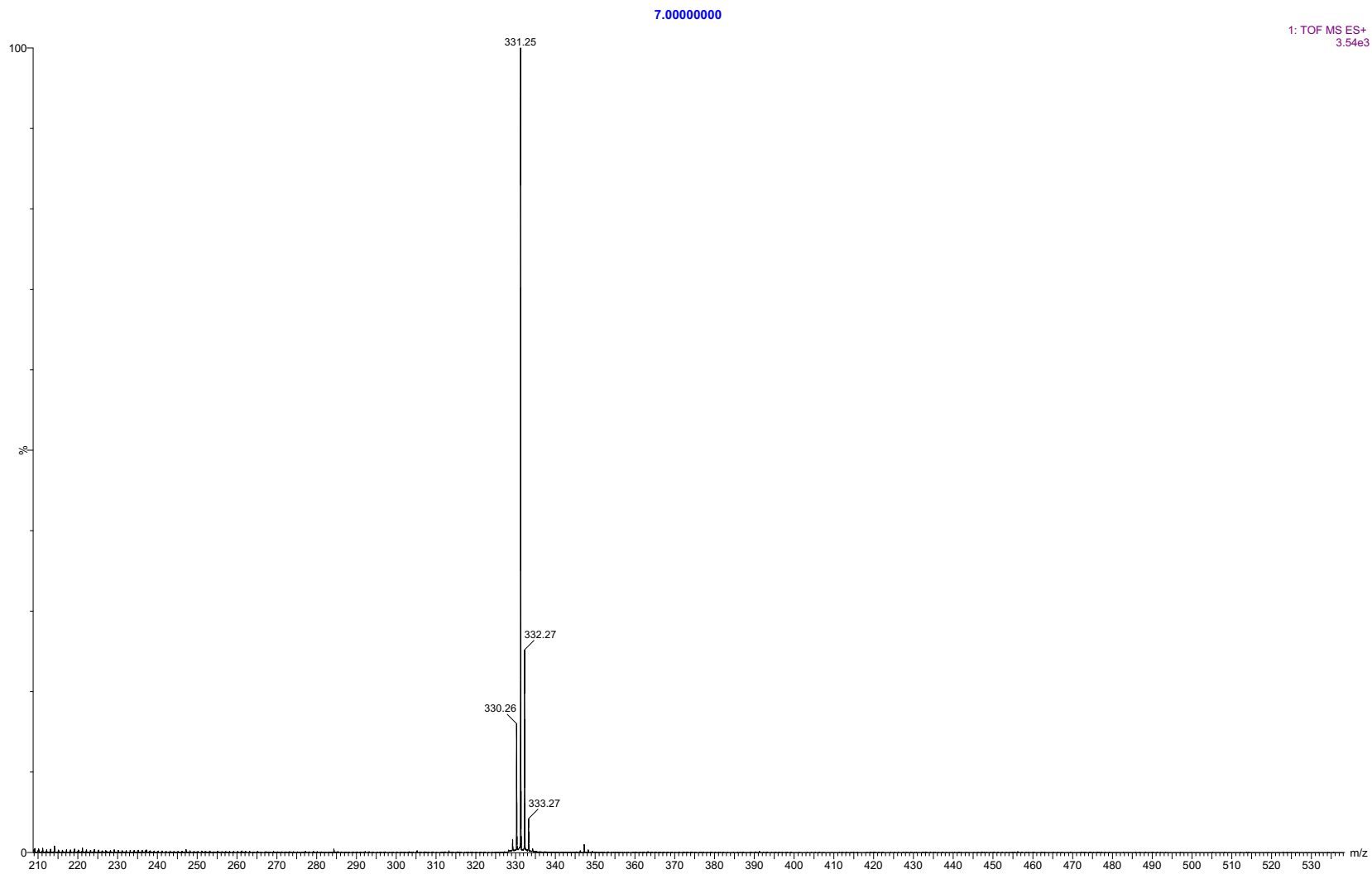
Date: 02/16/2022



Viorica Rusu, QC/QA Manager

Etonogestrel-D6 (major)  
1H-NMR, 600 MHz  
Solvent: CDCl3  
Lot No.: GR-3-023

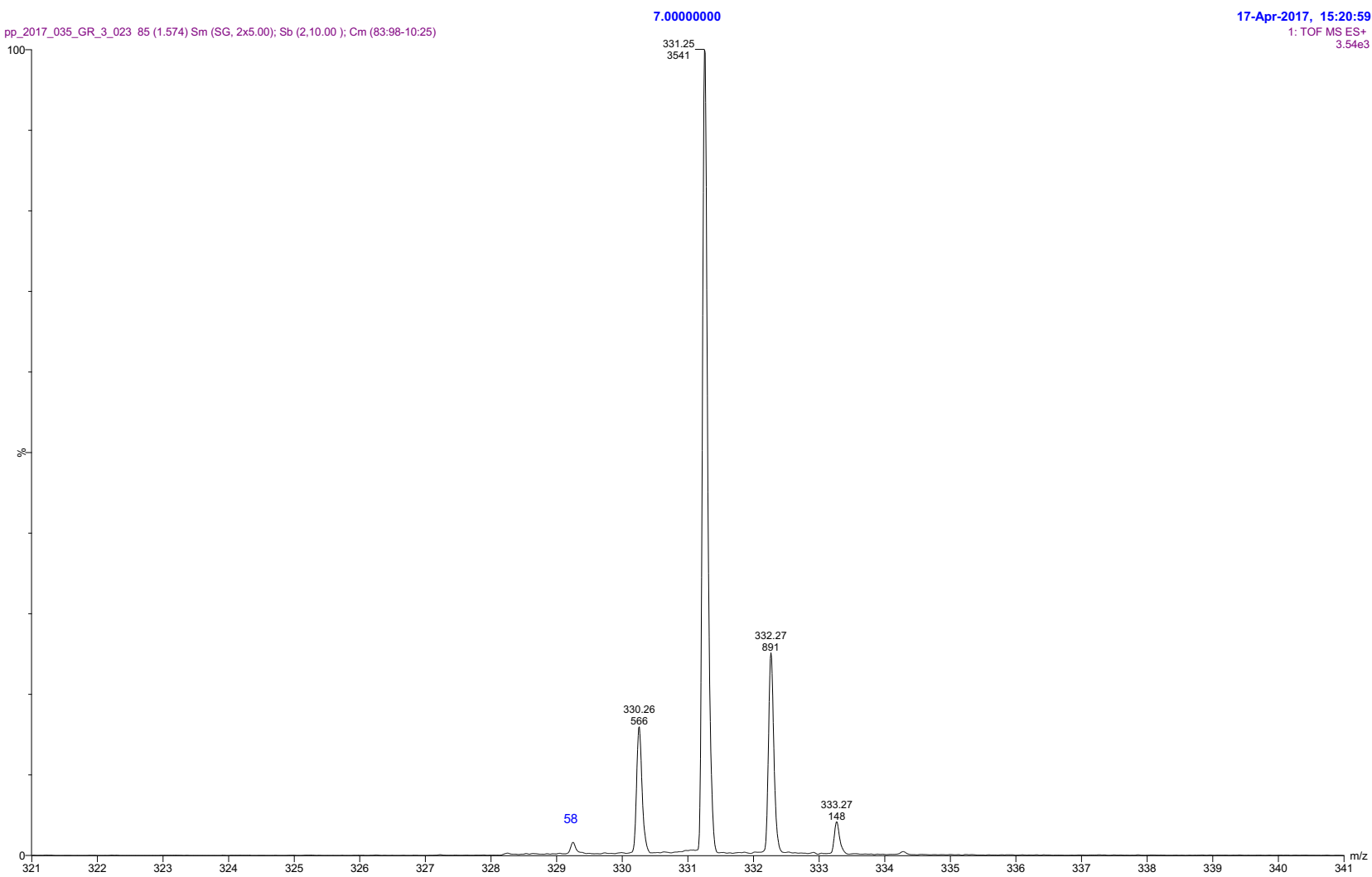




ESI-MS spectrum for sample GR-3-023. Shows monoisotopic  $[M+H]^+$  mass.

pp\_2017\_035\_GR\_3\_023 85 (1.574) Sm (SG, 2x5.00); Sb (2,10.00); Cm (83:98-10:25)

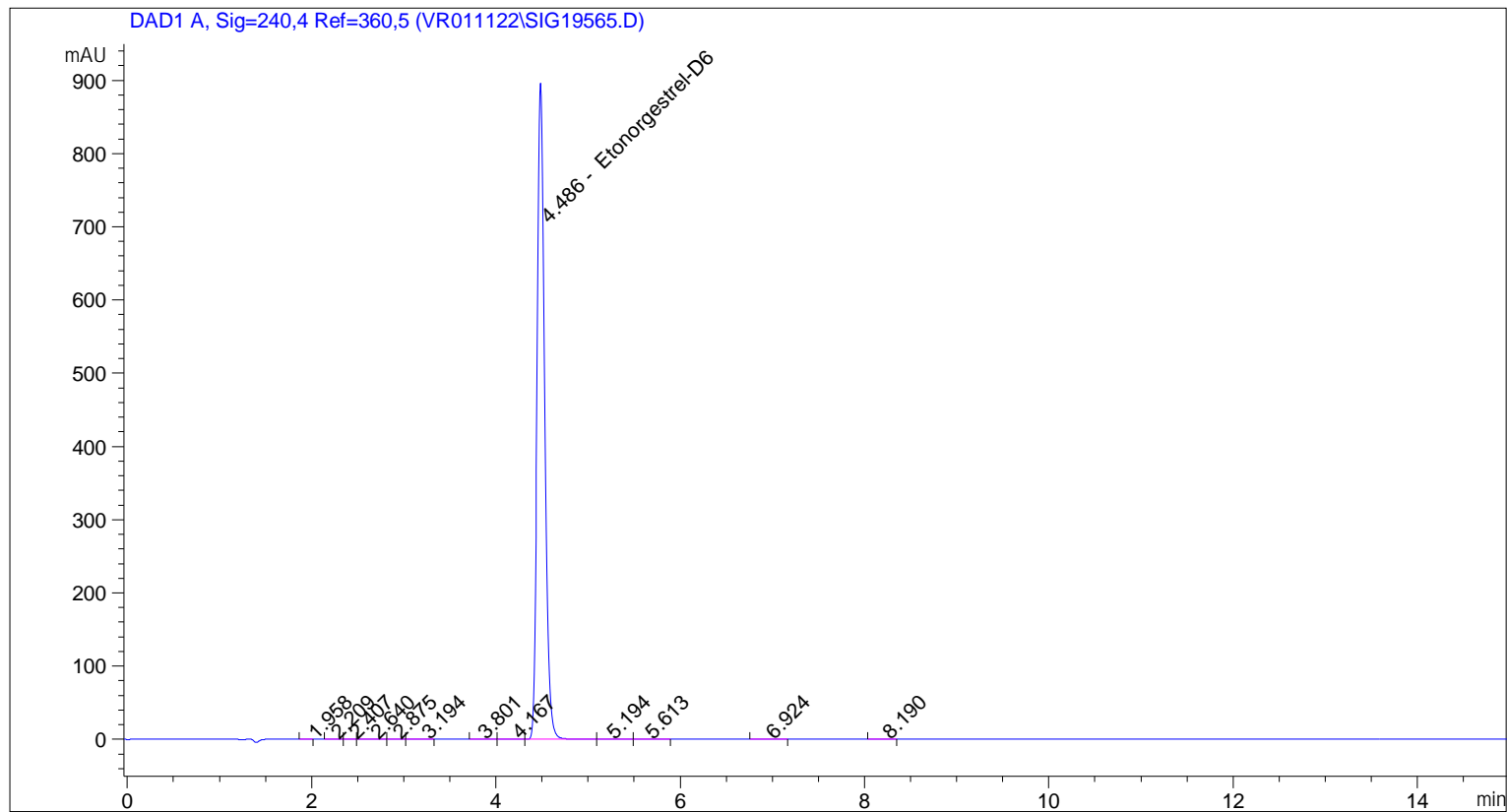
17-Apr-2017, 15:20:59  
1: TOF MS ES+  
3.54e3



Expansion of above showing intensity labels.

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 30
Injection Date  : 2/16/2022 8:18:03 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR021622_023.M
Last changed   : 2/16/2022 8:17:14 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR021622_023PM.M
Last changed   : 2/16/2022 9:04:06 AM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      2/16/2022 8:48:30 AM
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	1.958	BB	0.0711	2.84958e-1	5.553e-3	?
2	2.209	BB	0.0677	1.12262	0.0219	?
3	2.407	BB	0.0549	6.35660e-1	0.0124	?
4	2.640	BV	0.0998	2.82998	0.0552	?
5	2.875	VV	0.0771	8.10919e-1	0.0158	?
6	3.194	VB	0.1054	1.24964	0.0244	?
7	3.801	BV	0.0990	1.04066	0.0203	?
8	4.167	VB	0.1202	1.89342	0.0369	?

Sample Name: GR-3-023

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.486	BV	0.0885	5112.75293	99.6399	Etonorgestrel-D6
10	5.194	VV	0.1926	2.45859	0.0479	?
11	5.613	VB	0.1257	3.28284	0.0640	?
12	6.924	BB	0.1241	2.13995	0.0417	?
13	8.190	BB	0.1062	7.28607e-1	0.0142	?

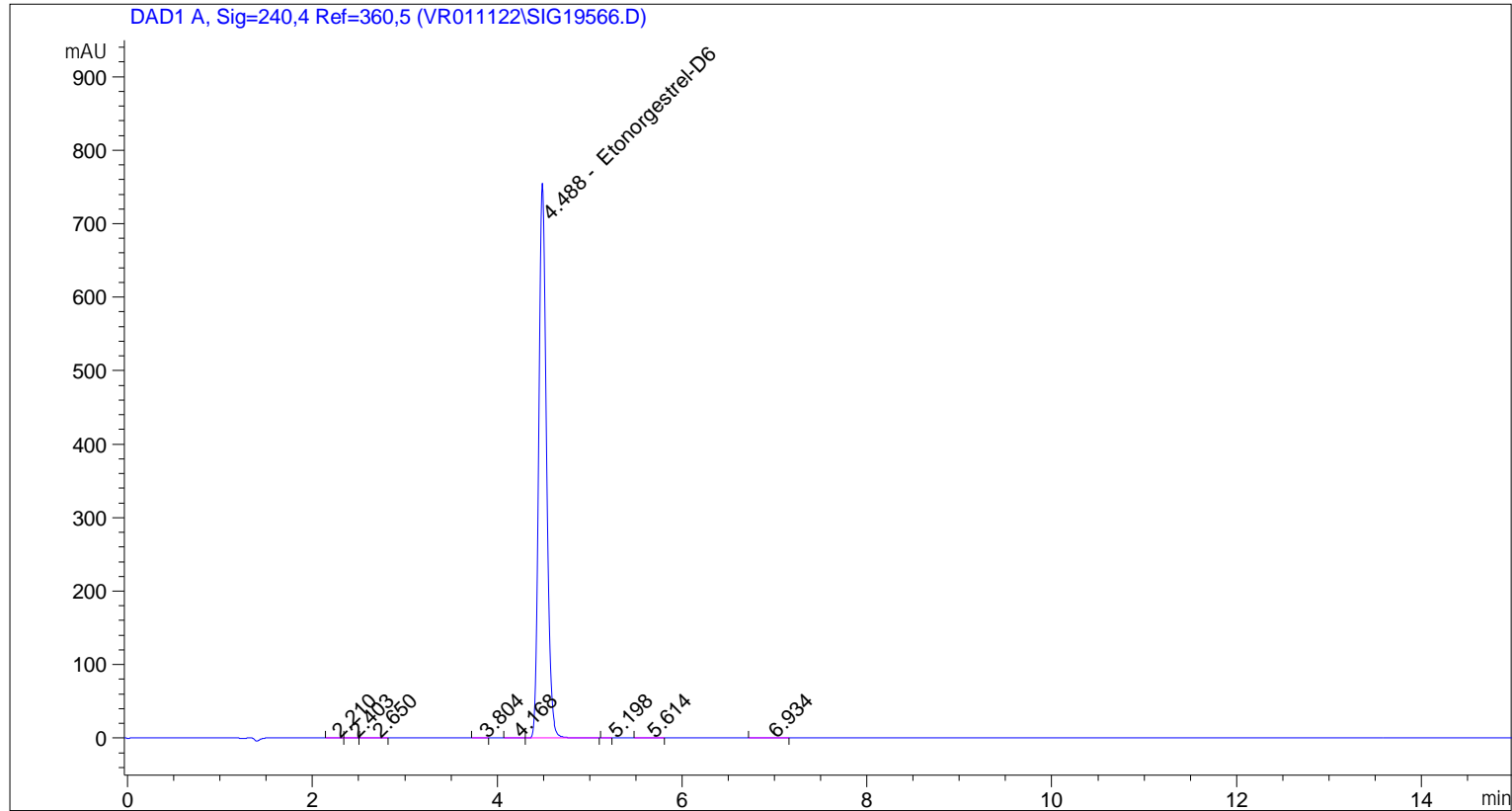
Totals : 5131.23077

=====

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

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 31
Injection Date  : 2/16/2022 8:34:47 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR021622_023.M
Last changed    : 2/16/2022 8:33:56 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR021622_023PM.M
Last changed    : 2/16/2022 9:04:06 AM by vrusu
  
```



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

```

Sorted By      : Signal
Calib. Data Modified : 2/16/2022 8:48:30 AM
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	2.210	BV	0.0652	1.32891	0.0309	?
2	2.403	VB	0.0625	4.67141e-1	0.0108	?
3	2.650	BB	0.1088	1.84669	0.0429	?
4	3.804	BB	0.0712	3.94328e-1	9.156e-3	?
5	4.168	BB	0.0996	8.96454e-1	0.0208	?
6	4.488	BB	0.0885	4298.37500	99.8075	Etonorgestrel-D6
7	5.198	BB	0.0534	1.14708e-1	2.663e-3	?
8	5.614	BB	0.1080	1.58081	0.0367	?

Sample Name: GR-3-023 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	6.934	BB	0.1276	1.66245	0.0386	?

Totals : 4306.66650

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