

**Name:** 20 $\alpha$ / $\beta$ -Dihydrodydrogesterone-D7 (major) ~1:1 mixture

**Lot#:** GR-13-019-1

**Test Date:** 03/22/2019 (re-test date: 03/22/2024)

**CAS No.:** 4243-74-7 + 4243-73-6 (unlabeled)

**MF:** C<sub>21</sub>H<sub>23</sub>D<sub>7</sub>O<sub>2</sub>

**MW:** 321.51

**Appearance:** Pale Yellow Solid

**Purity:** 98.9% by HPLC (sum of two peaks); >98% atom D

**<sup>1</sup>H-NMR:** Conforms (contains a trace of ACN)

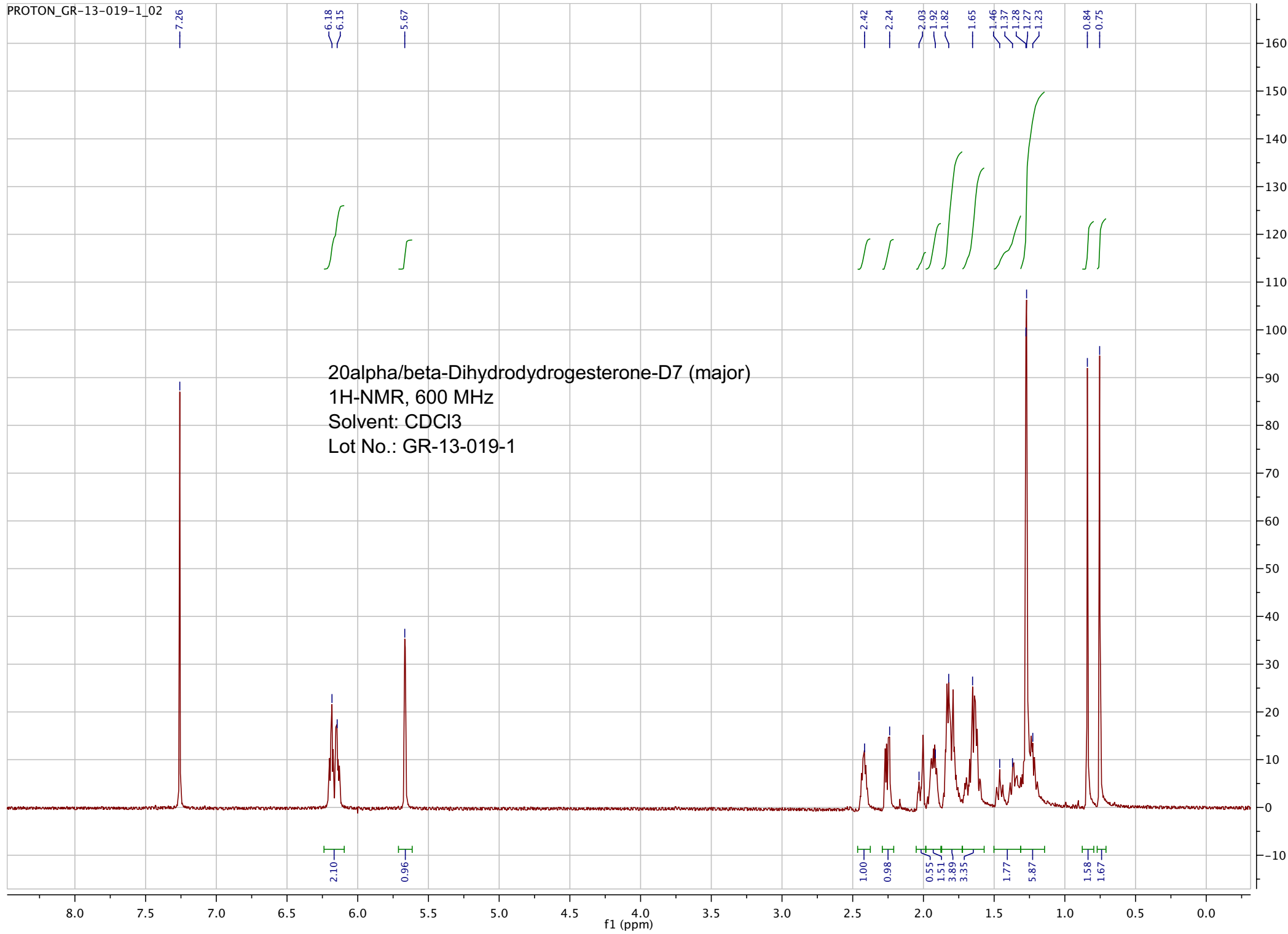
**MS-ESI (+)** Conforms (shows peaks at m/z = 322.27 [M+H]<sup>+</sup>)

Approved by:

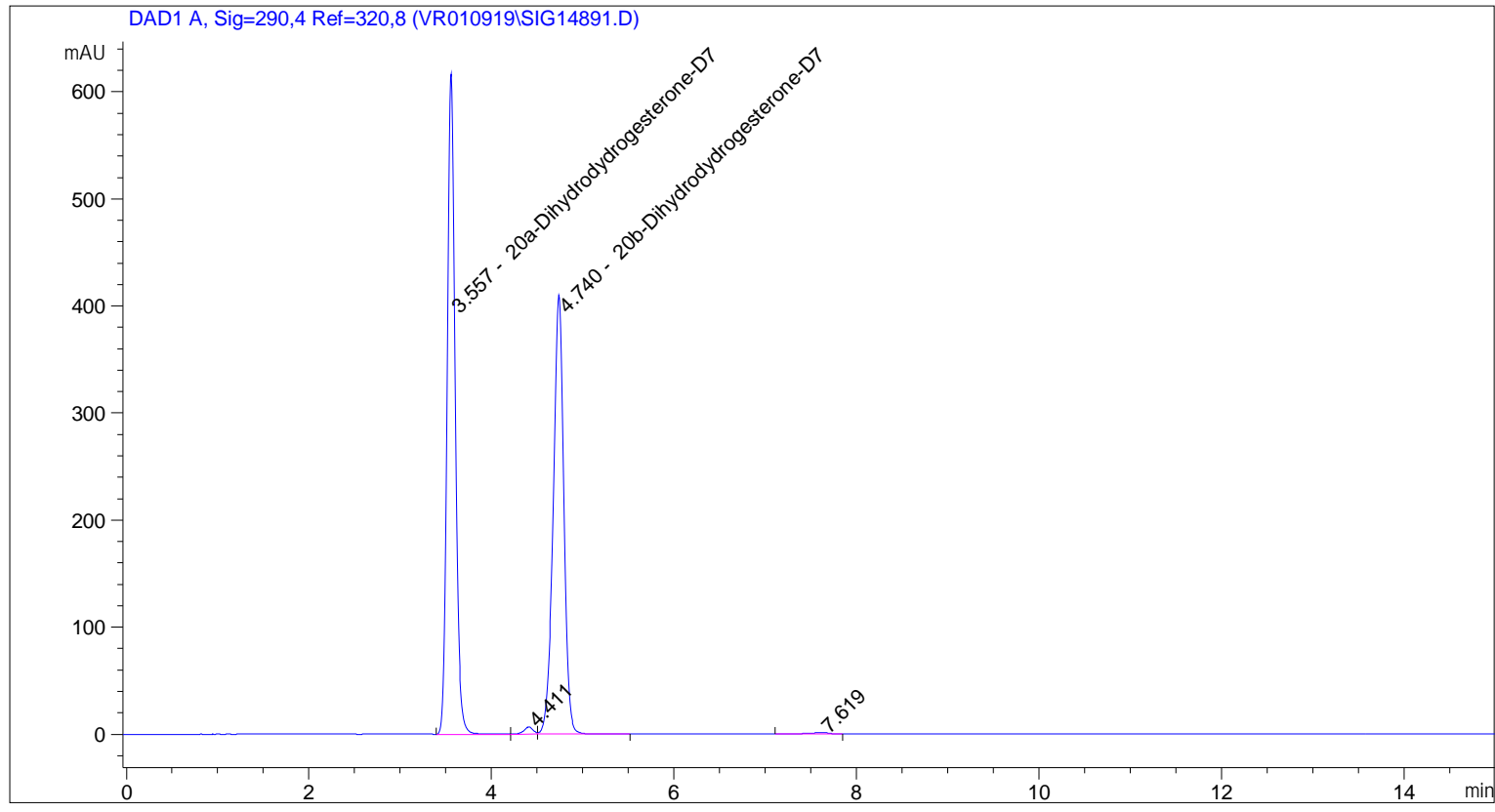
Date: 03/25/2019



Viorica Rusu, QC/QA Manager



=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 51  
Injection Date : 3/22/2019 9:07:03 AM Inj Volume : 10.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR032219\_019.M  
Last changed : 3/22/2019 9:02:58 AM by vrusu  
(modified after loading)  
Analysis Method : C:\CHEM32\1\METHODS\VR032219\_019PM.M  
Last changed : 3/22/2019 1:43:05 PM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : Friday, March 22, 2019 1:42:51 PM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=290,4 Ref=320,8

| Peak # | RetTime [min] | Type | Width [min] | Area [mAU*s] | Area %  | Name                         |
|--------|---------------|------|-------------|--------------|---------|------------------------------|
| 1      | 3.557         | BV   | 0.0917      | 3687.88452   | 52.3945 | 20a-Dihydrodydrogesterone-D7 |
| 2      | 4.411         | VV   | 0.1111      | 49.94441     | 0.7096  | ?                            |
| 3      | 4.740         | VB   | 0.1193      | 3276.94995   | 46.5563 | 20b-Dihydrodydrogesterone-D7 |
| 4      | 7.619         | BB   | 0.2046      | 23.90881     | 0.3397  | ?                            |

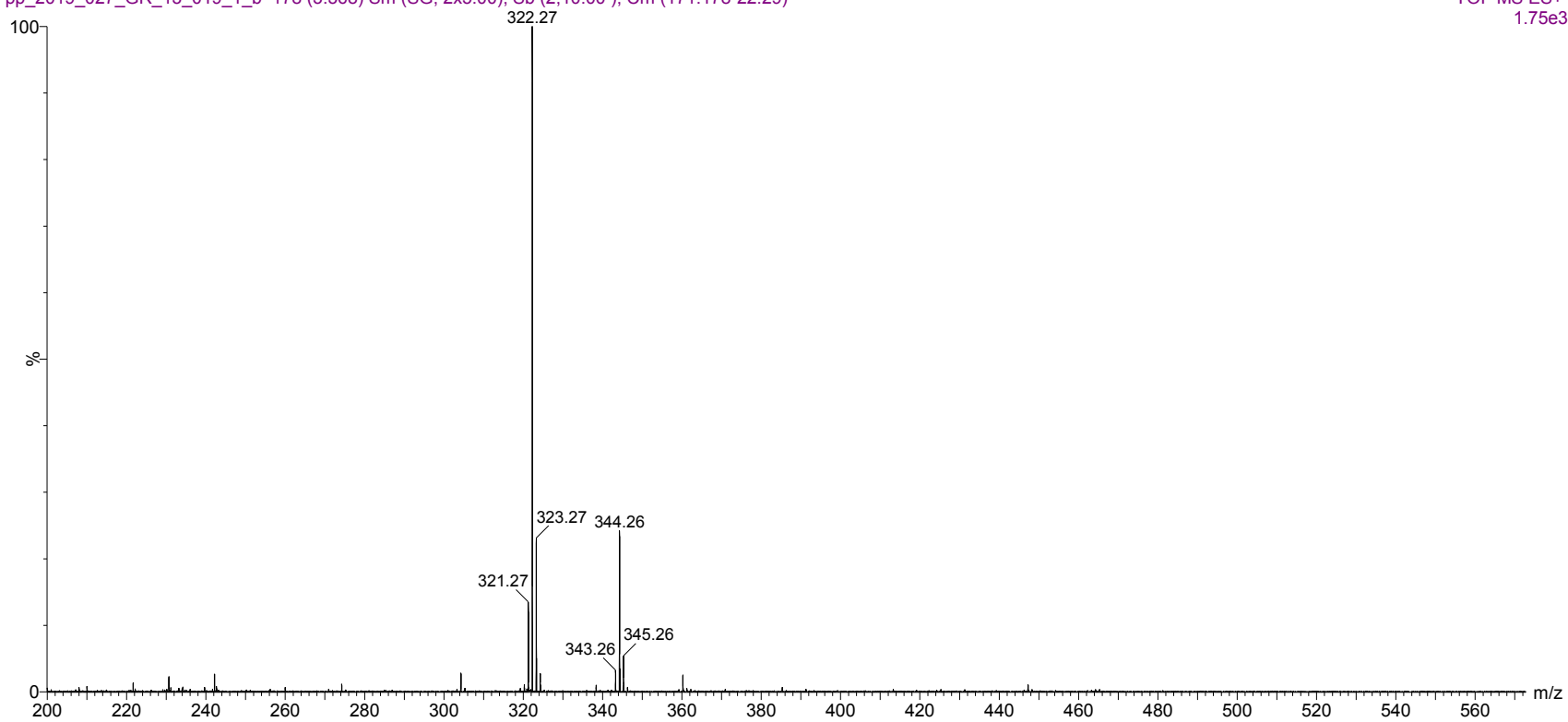
Totals : 7038.68769

=====

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

pp\_2019\_027\_GR\_13\_019\_1\_b 178 (3.368) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (171:178-22:29)

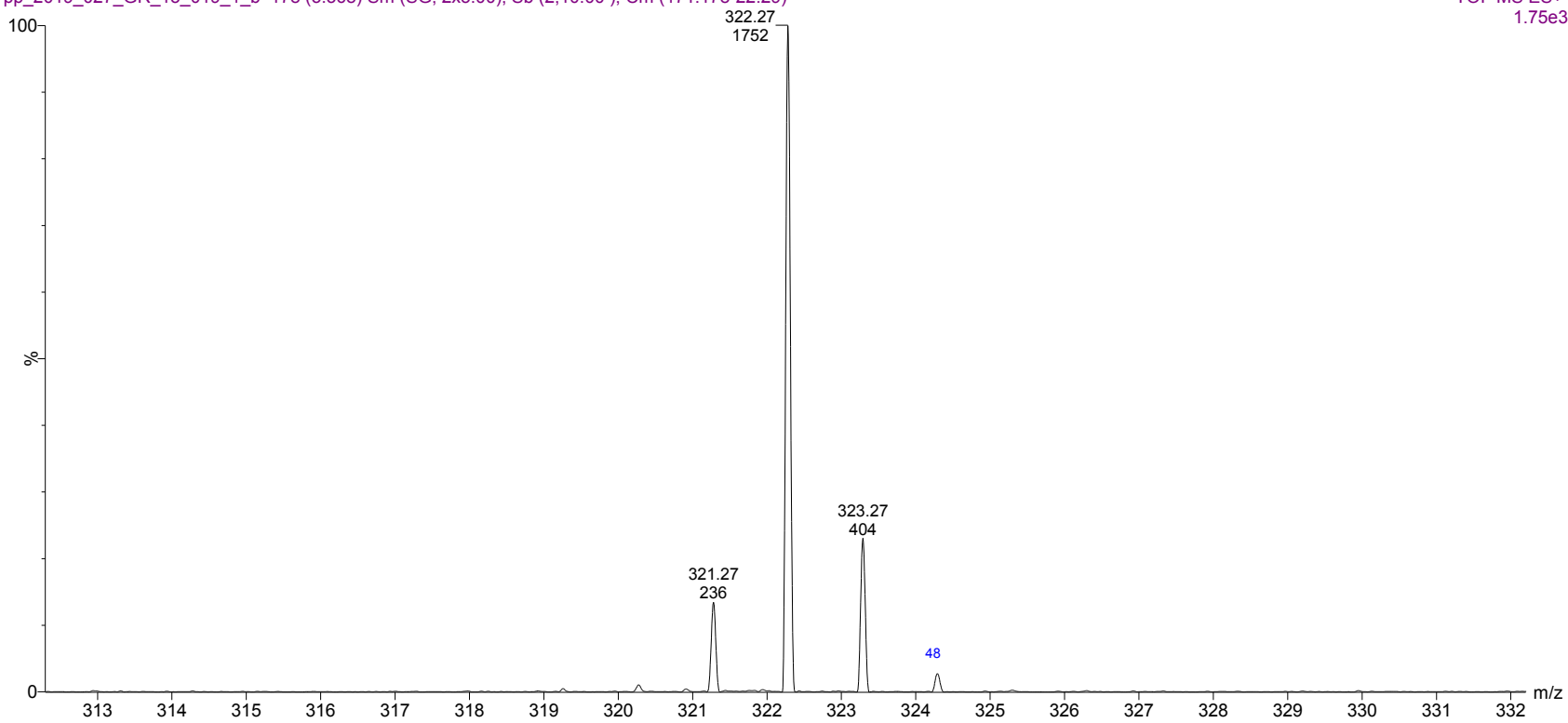
TOF MS ES+  
1.75e3



ESI-MS spectrum for sample GR-13-019-1. Shows monoisotopic [M+H]<sup>+</sup> mass.

pp\_2019\_027\_GR\_13\_019\_1\_b 178 (3.368) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (171:178-22:29)

TOF MS ES+  
1.75e3



Expansion of above.