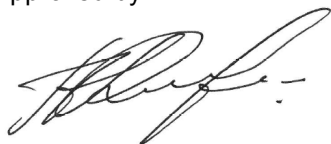


**Name:** Metronidazole-D4  
**Lot#:** GR-14-185  
**Test Date:** 01/22/2020 (re-test date:01/22/2025)  
**CAS No.:** 1261392-47-5  
**MF:** C<sub>6</sub>H<sub>5</sub>D<sub>4</sub>N<sub>3</sub>O<sub>3</sub>  
**MW:** 175.18  
**Appearance:** Off-White Solid  
**Purity:** 99.6% by HPLC; 99.3% atom D  
**<sup>1</sup>H-NMR:** Conforms (shows a trace of MeOH)  
**MS-ESI (+)** Conforms (shows peak at m/z = 176.10 [M+H]<sup>+</sup>)

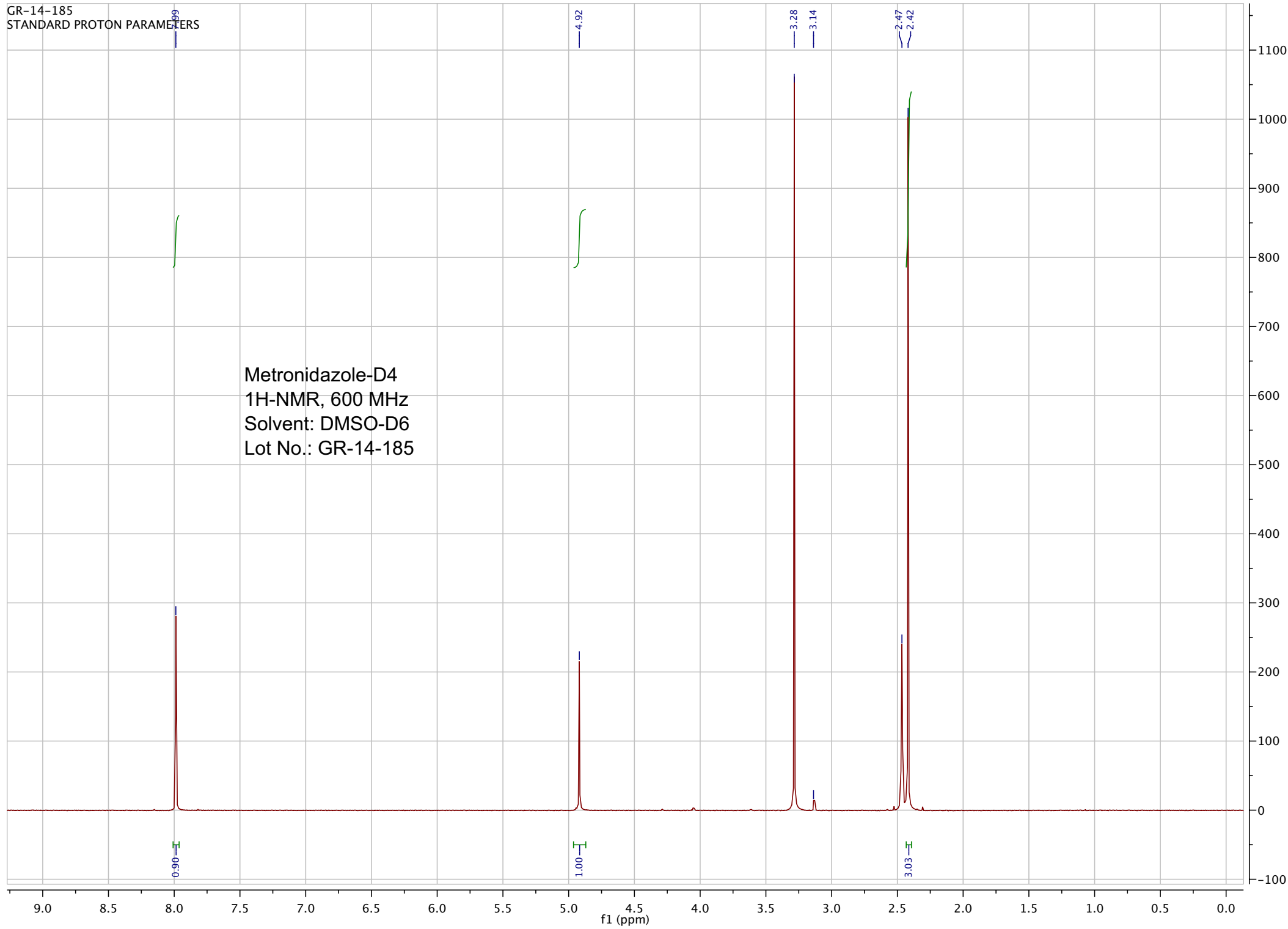
Approved by:

Date: 01/24/2020



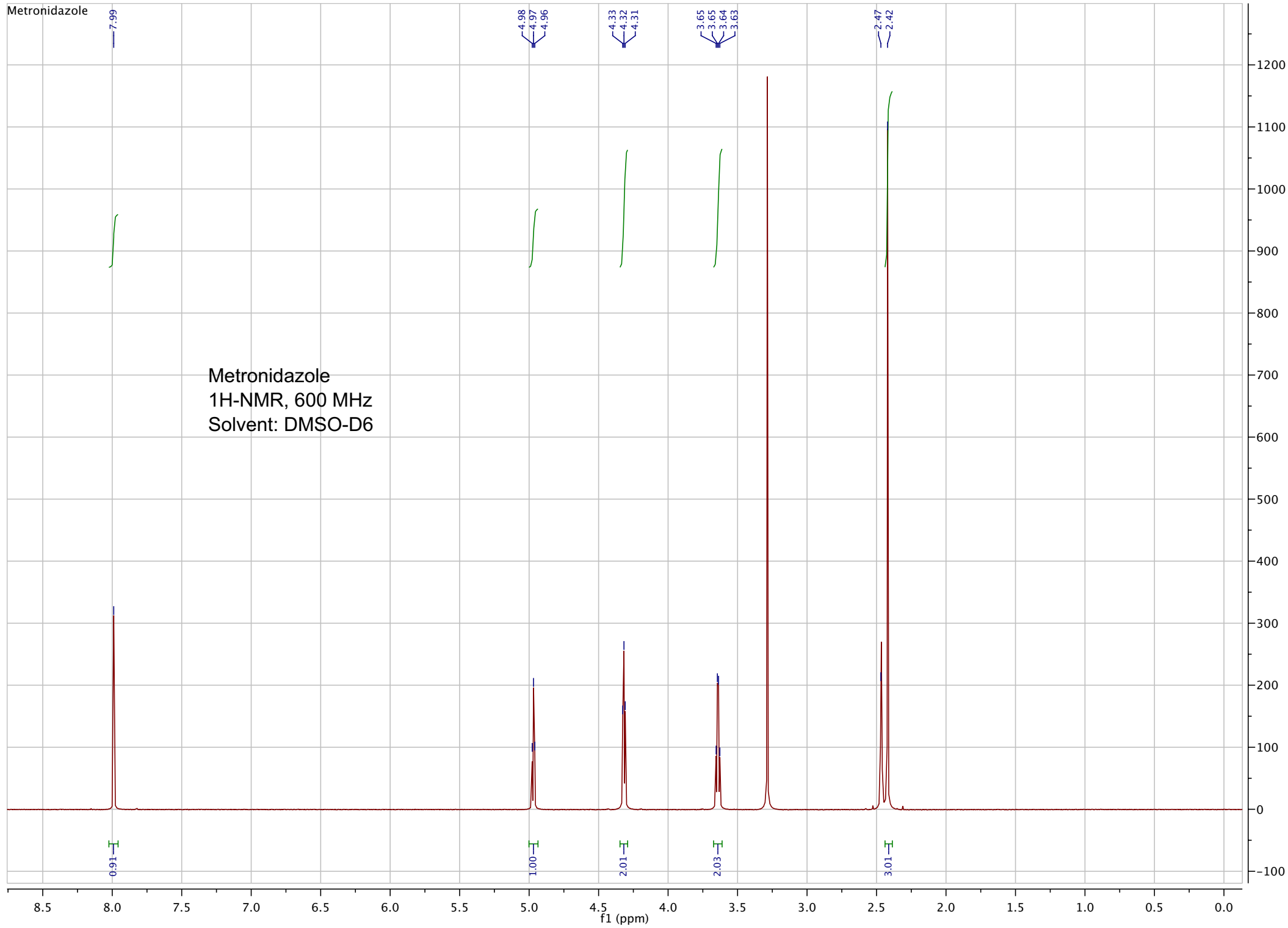
Viorica Rusu, QC/QA Manager

Metronidazole-D4  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-14-185



Metronidazole

Metronidazole  
1H-NMR, 600 MHz  
Solvent: DMSO-D6

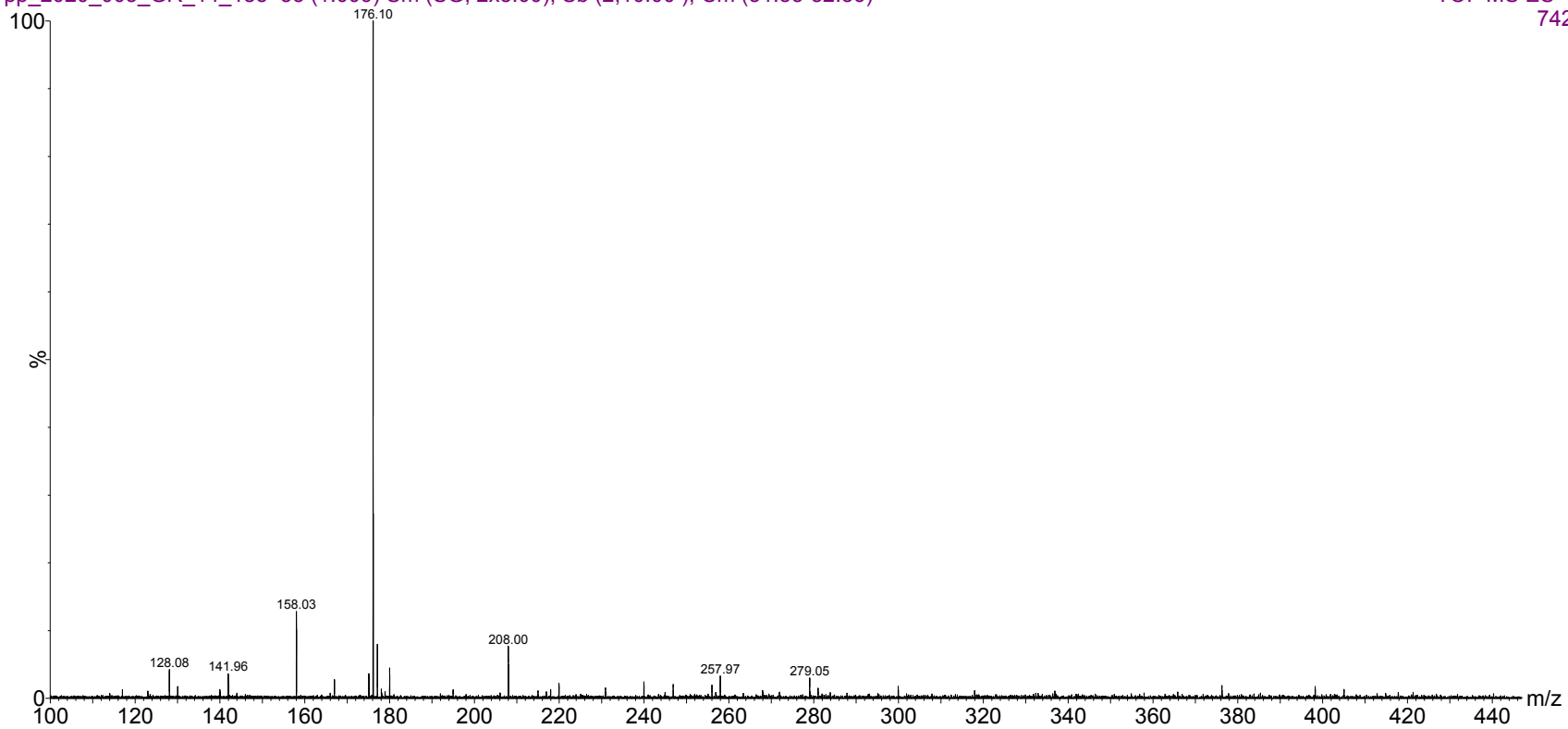


22-Jan-2020, 14:03:08

TOF MS ES+

742

pp\_2020\_003\_GR\_14\_185 53 (1.009) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (51:53-32:36)

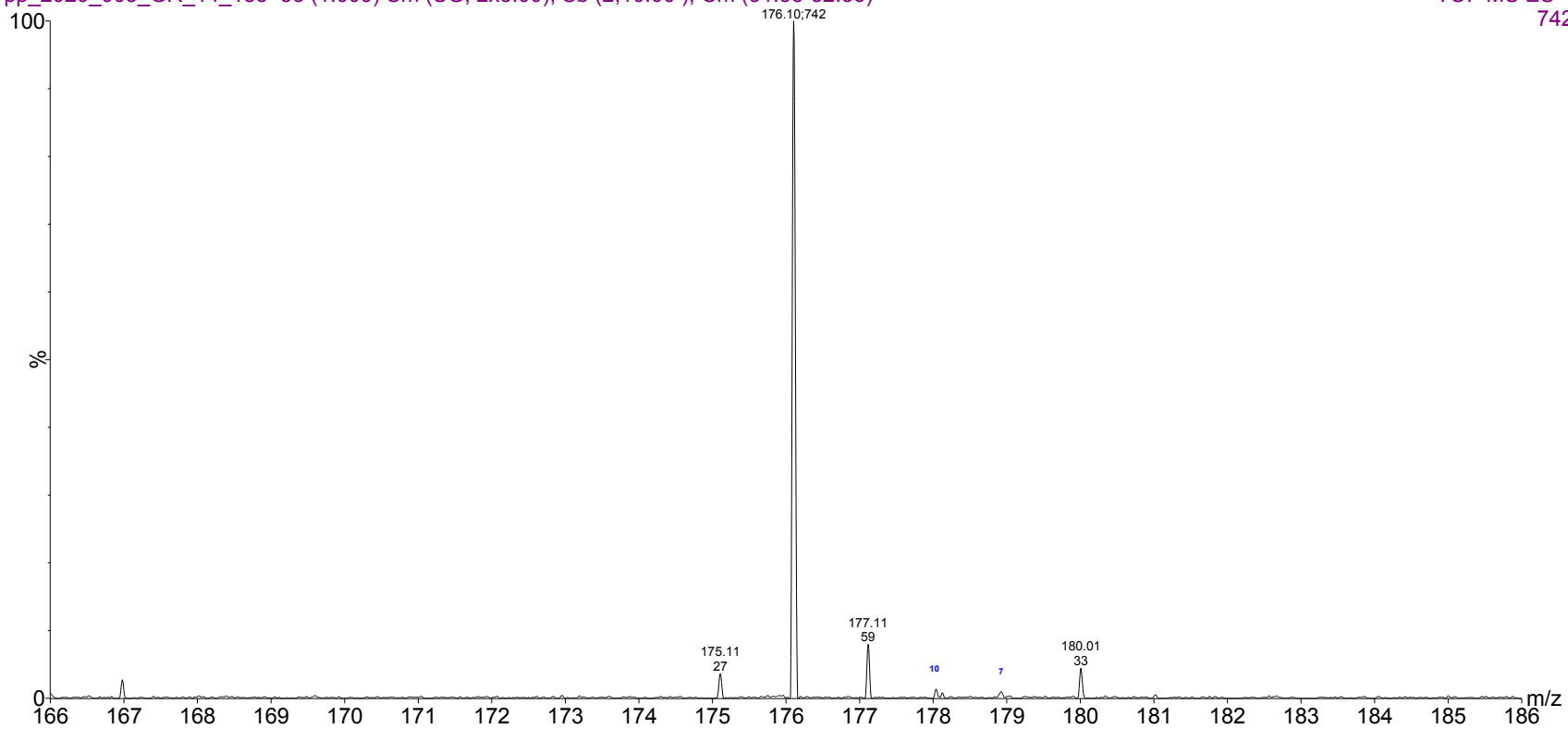


ESI-MS spectrum for sample GR-14-185. Shows monoisotopic  $[M+H]^+$  mass.

22-Jan-2020, 14:03:08

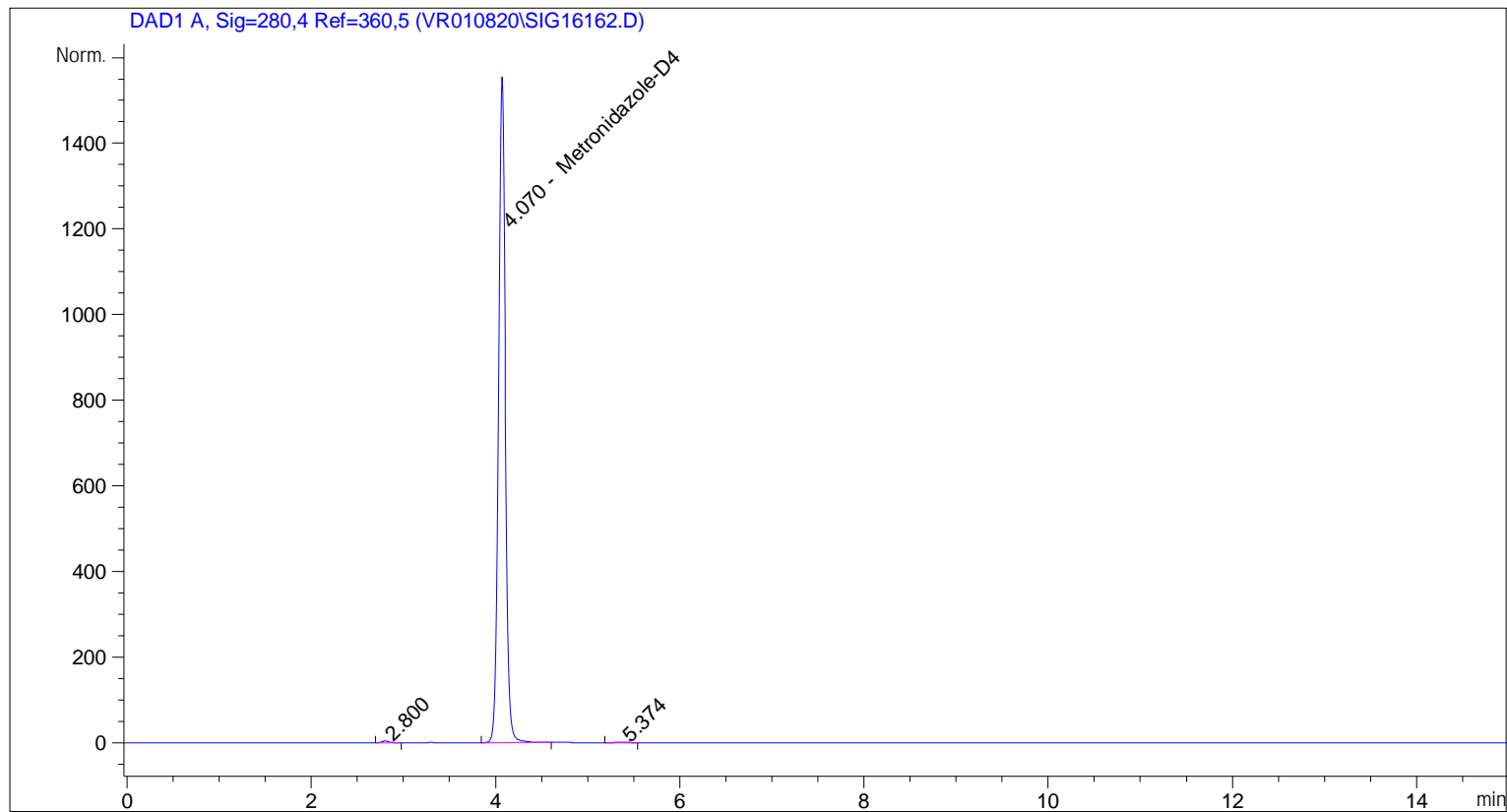
TOF MS ES+  
742

pp\_2020\_003\_GR\_14\_185 53 (1.009) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (51:53-32:36)



Expansion of above showing intensity labels. Peak at 180.01 is likely a contaminant.

=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 20  
Injection Date : 1/22/2020 12:14:02 PM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR012220\_185.M  
Last changed : 1/22/2020 12:12:59 PM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR012220\_185PM.M  
Last changed : 1/22/2020 12:26:01 PM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : 1/22/2020 12:25:29 PM  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=280,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.800	BB	0.0694	19.74812	0.2429	?
2	4.070	BB	0.0788	8101.04980	99.6487	Metronidazole-D4
3	5.374	BB	0.1031	8.81214	0.1084	?

Totals : 8129.61006