

<b>Name:</b>	<b>Metronidazole-D4 Hydrochloride</b>
<b>Lot#:</b>	GR-14-185-1
<b>Test Date:</b>	02/05/2020 (re-test date:02/05/2025)
<b>CAS No.:</b>	1261397-74-3
<b>MF:</b>	C <sub>6</sub> H <sub>6</sub> D <sub>4</sub> ClN <sub>3</sub> O <sub>3</sub>
<b>MW:</b>	211.64
<b>Appearance:</b>	Off-White Solid
<b>Purity:</b>	98.6% by HPLC; 99.3% atom D
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (+)</b>	Conforms (shows peak at m/z = 176.10 [M <sub>(free base)</sub> +H] <sup>+</sup> )

Approved by:

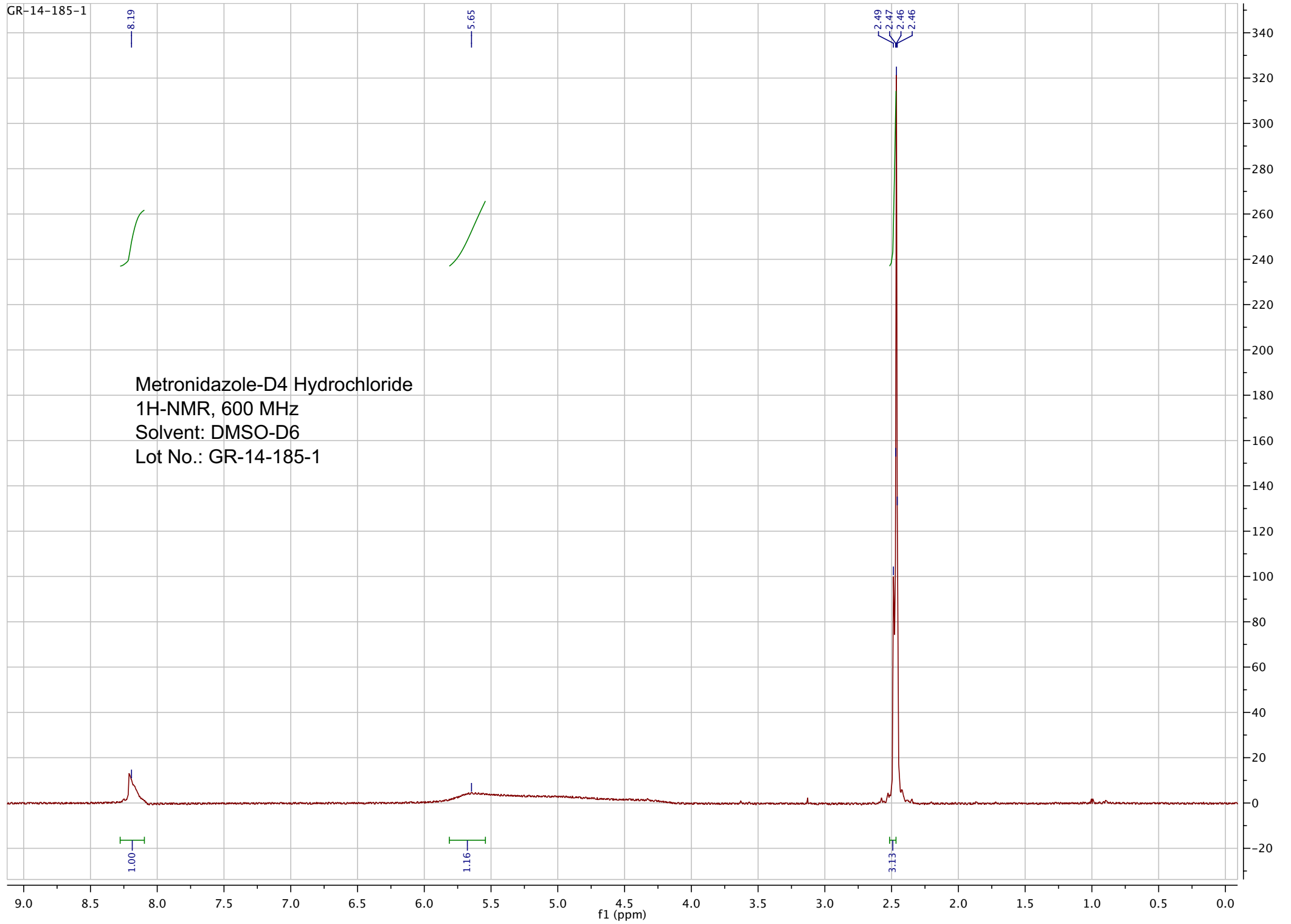
Date: 02/05/2020



Viorica Rusu, QC/QA Manager

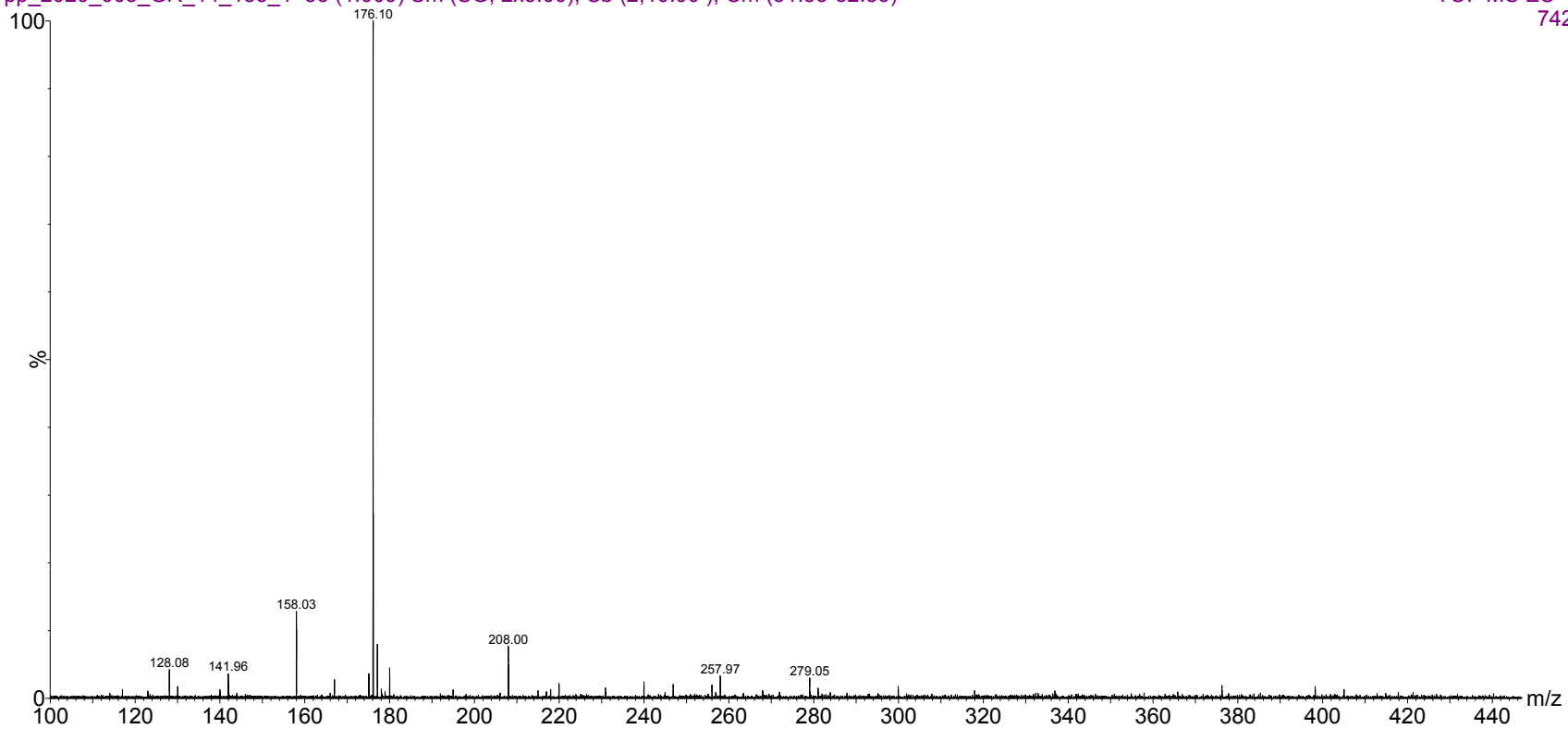
GR-14-185-1

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



pp\_2020\_003\_GR\_14\_185\_1 53 (1.009) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (51:53-32:36)

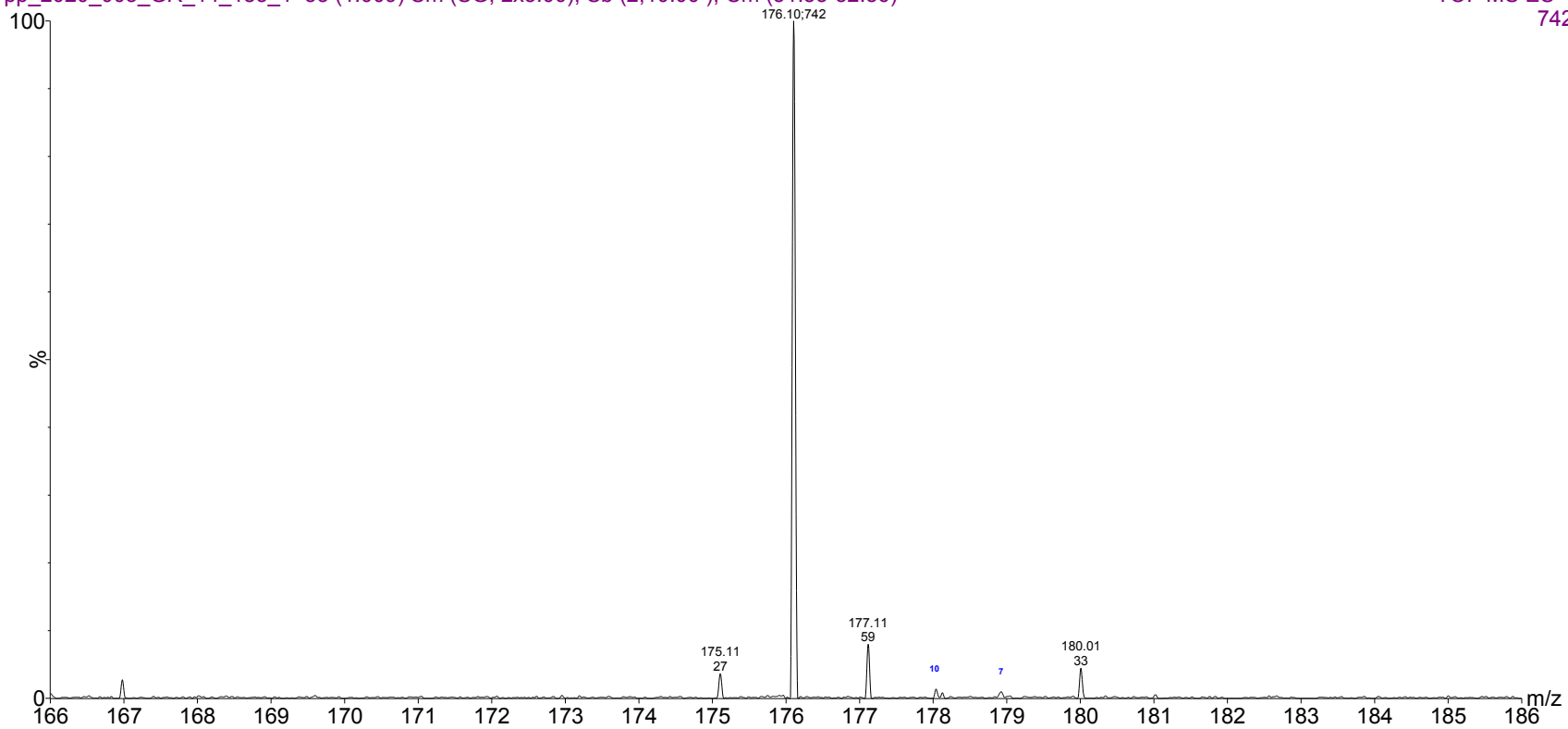
TOF MS ES+  
742



ESI-MS spectrum for sample GR-14-185-1. Shows monoisotopic [M+H]<sup>+</sup> mass.

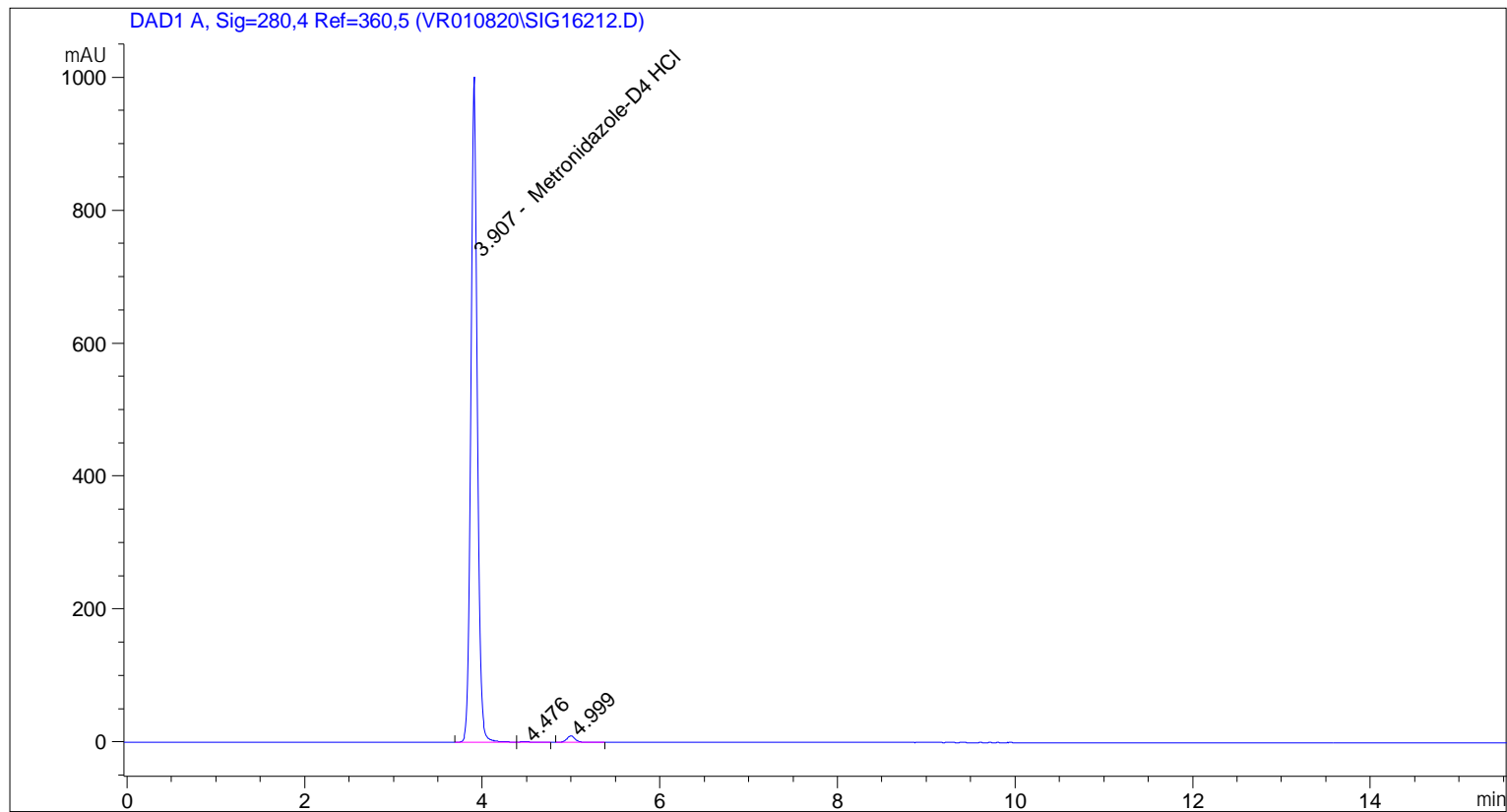
pp\_2020\_003\_GR\_14\_185\_1 53 (1.009) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (51:53-32:36)

TOF MS ES+  
742



Expansion of above showing intensity labels.

=====  
Acq. Operator : vrusu  
Acq. Instrument : Instrument 1 Location : Vial 56  
Injection Date : 2/5/2020 7:24:26 AM Inj Volume : 5.0 µl  
Acq. Method : C:\CHEM32\1\METHODS\VR020520\_185\_1.M  
Last changed : 2/5/2020 7:23:17 AM by vrusu  
Analysis Method : C:\CHEM32\1\METHODS\VR020520\_185\_1PM.M  
Last changed : 2/5/2020 7:47:31 AM by vrusu



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

Sorted By : Signal  
Calib. Data Modified : 2/5/2020 7:47:02 AM  
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	3.907	BV	0.0778	5131.02197	98.6432	Metronidazole-D4 HCl
2	4.476	VB	0.0951	8.28791	0.1593	?
3	4.999	BB	0.0974	62.28835	1.1975	?

Totals : 5201.59823