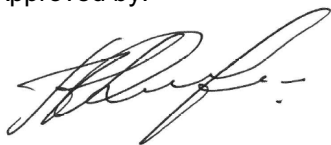


<b>Name:</b>	<b>Furosemide-D5</b>
<b>Lot#:</b>	GR-4-161
<b>Test Date:</b>	02/05/2020 (re-test date: 02/05/2025)
<b>CAS No.:</b>	54-31-9 (unlabeled)
<b>MF:</b>	C <sub>12</sub> H <sub>6</sub> ClD <sub>5</sub> N <sub>2</sub> O <sub>5</sub> S
<b>MW:</b>	335.74
<b>Appearance:</b>	Pale yellow solid
<b>Purity:</b>	97.8% by HPLC; 99% atom D
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (+)</b>	Conforms (shows peak at m/z = 334.3, 336.3 [M+H] <sup>+</sup> , exhibits the expected isotope pattern for mono-chlorinated compounds)

Approved by:

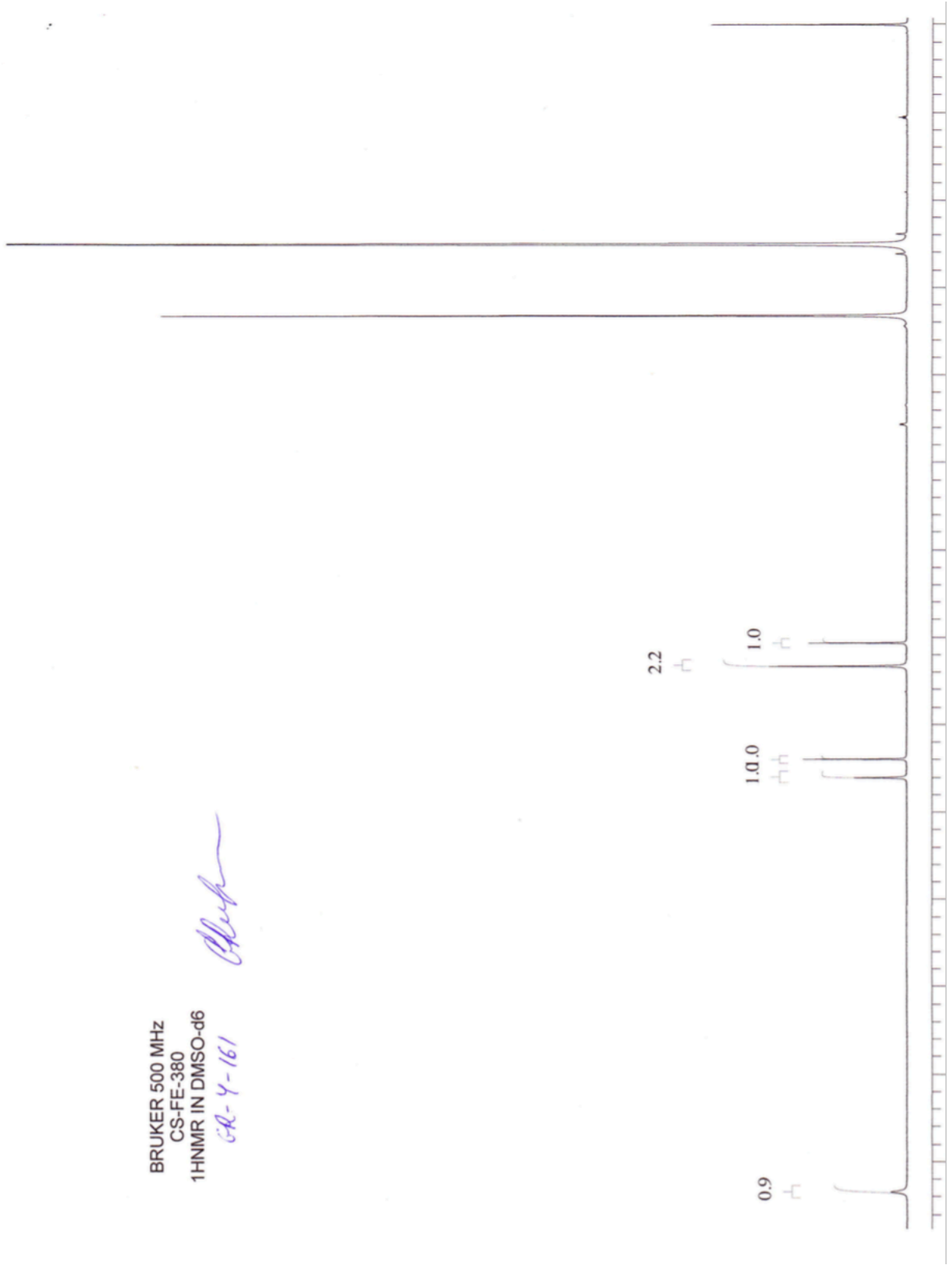
Date: 02/05/2020



Viorica Rusu, QC/QA Manager

BRUKER 500 MHz  
CS-FE-380  
1H NMR IN DMSO-d6  
GA-4-161

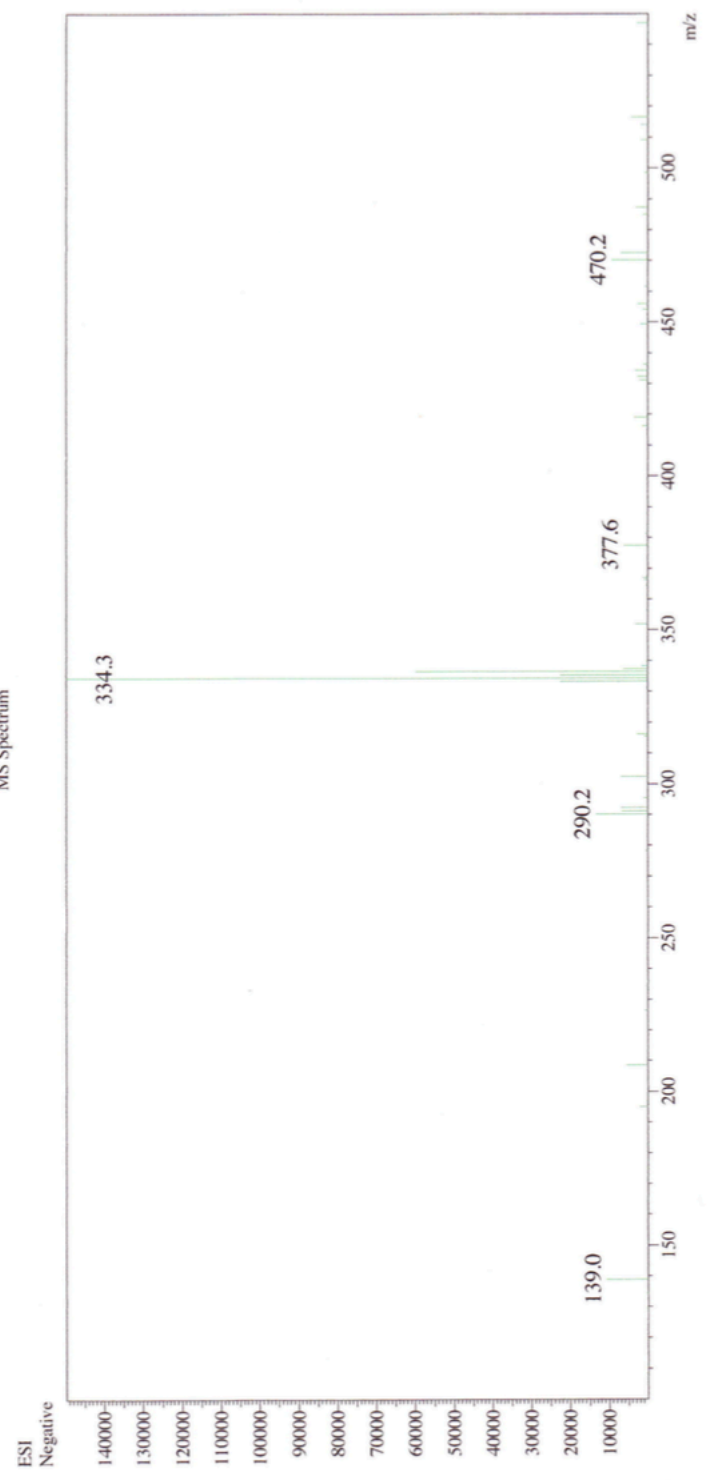
*Allyl*



D:\Data\Furosemide D5.lcd  
Sample Name : Furosemide D5  
Sample ID : CS-FE-380  
Acquired By : PP  
Data Acquired : 10/21/2014 2:26:41 PM  
Method : D:\Methods\ESI.lcm  
Data : D:\Data\Furosemide D5.lcd

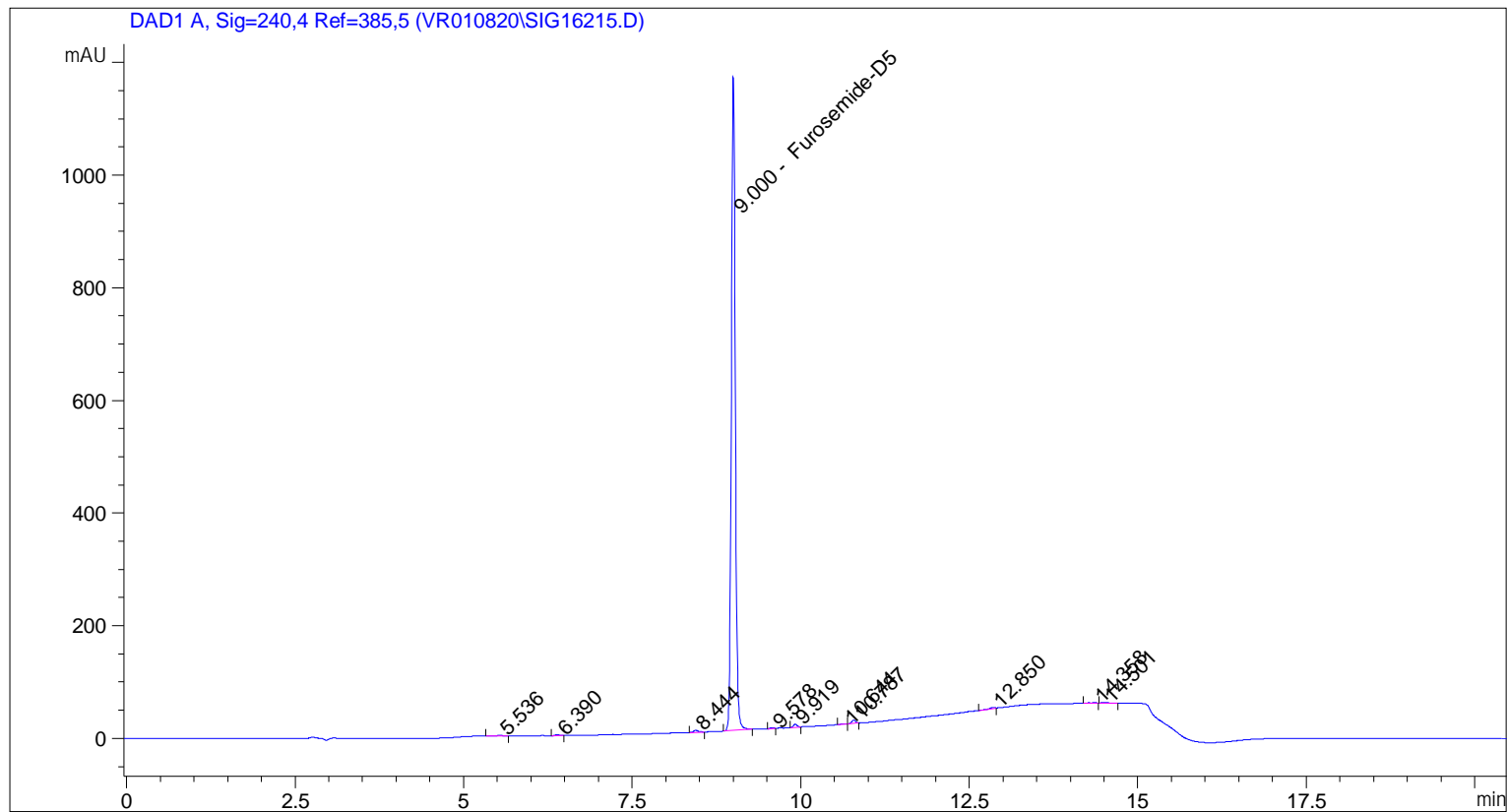
GR-4-161 *Chup*

MS Spectrum



```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 58
Injection Date  : 2/5/2020 10:02:05 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR020520_161.M
Last changed    : 2/5/2020 10:00:54 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020520_161PM.M
Last changed    : 2/5/2020 10:29:12 AM by vrusu
  
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=====  
 Area Percent Report  
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      2/5/2020 10:28:35 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
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Signal 1: DAD1 A, Sig=240,4 Ref=385,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	5.536	BB	0.0766	7.10392	0.1463	?
2	6.390	BB	0.0615	8.95452	0.1844	?
3	8.444	BB	0.0646	15.87492	0.3269	?
4	9.000	BB	0.0634	4748.45166	97.7881	Furosemide-D5
5	9.578	BB	0.0589	5.36877	0.1106	?
6	9.919	BB	0.0565	20.13607	0.4147	?
7	10.644	BV	0.0810	4.28432	0.0882	?
8	10.787	VB	0.0604	24.23993	0.4992	?

Sample Name: GR-4-161

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	12.850	BB	0.0689	7.58208	0.1561	?
10	14.358	BB	0.1255	5.88429	0.1212	?
11	14.501	BB	0.1188	7.97844	0.1643	?

Totals : 4855.85891

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