

Name:	Imipramine Hydrochloride Impurity B (3-(5H-dibenzo[b,f]azepin-5-yl)-N,N-dimethylpropan-1-amine hydrochloride)
Lot#:	GR-15-045
Test Date:	08/06/2025 (re-test date: 08/06/2030)
CAS No.:	58262-51-2 (303-54-8 free base)
MF:	C ₁₉ H ₂₃ ClN ₂
MW:	314.85
Appearance:	Yellow Solid
Purity:	99.6% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peak at m/z = 279.18 [M _{free base} +H] ⁺)
Storage	Store at 0-8°C in a dry place away from direct sunlight

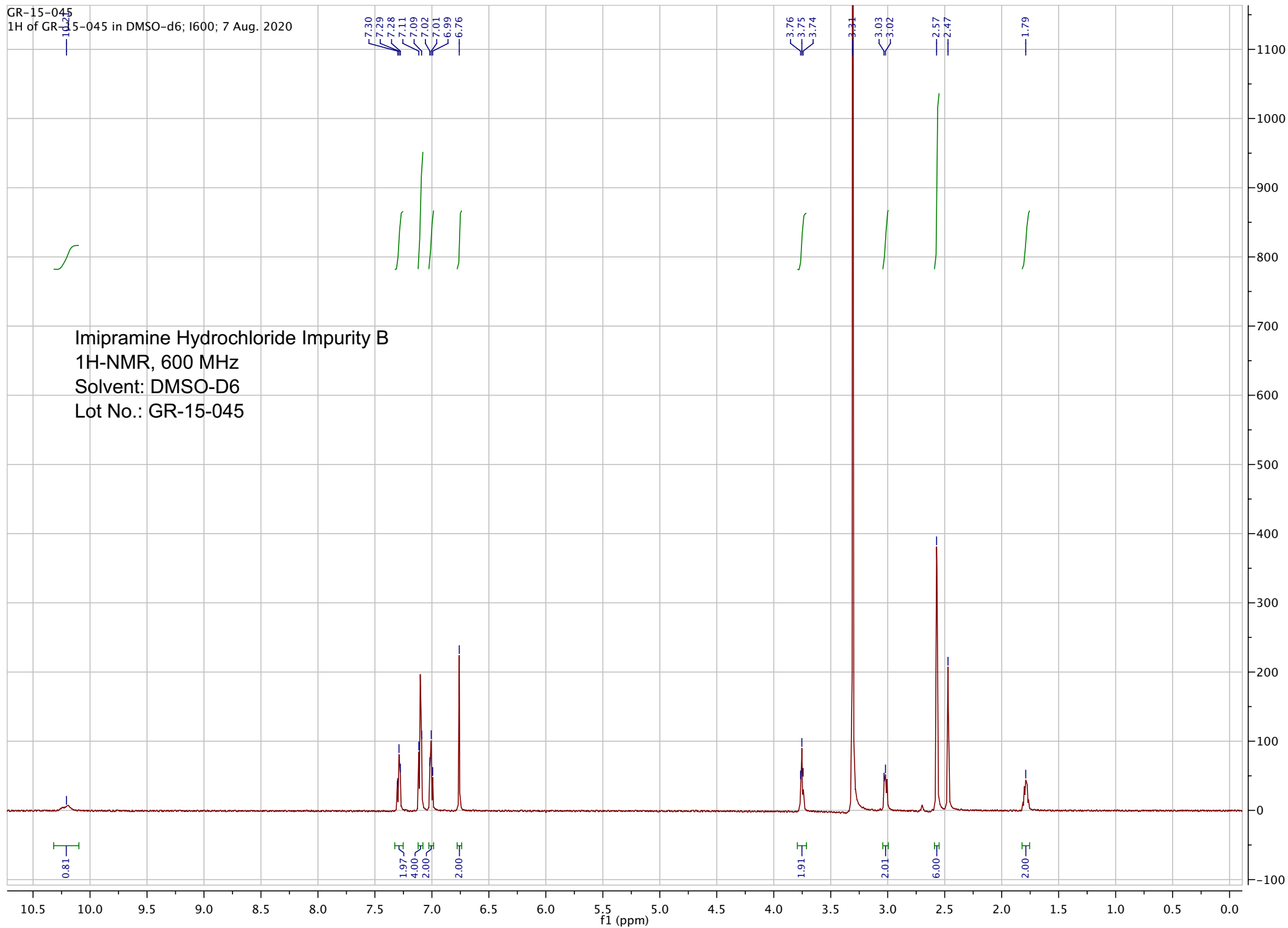
Approved by:

Date: 08/06/2025

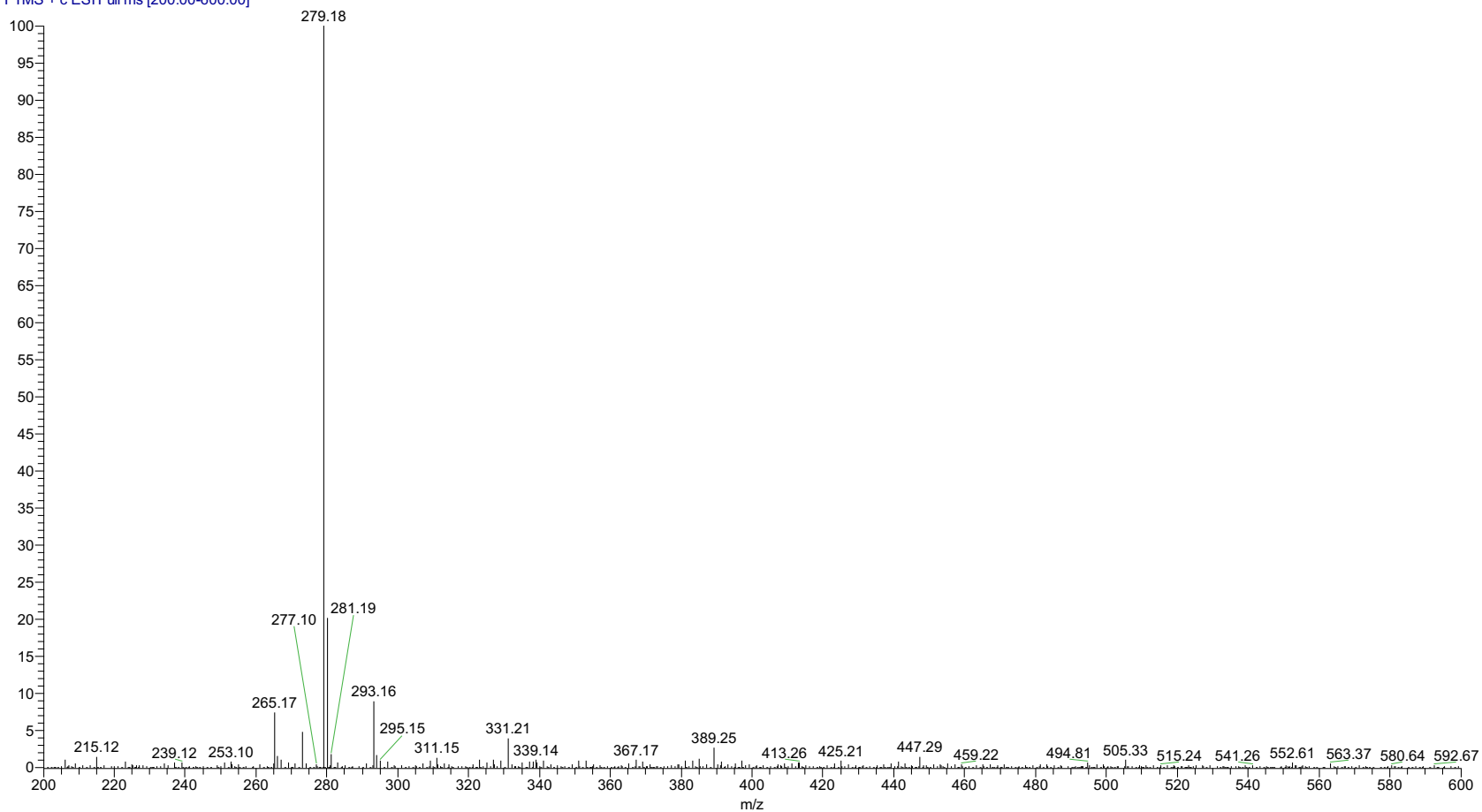


Viorica Rusu, QC/QA Manager

GR-15-045
1H of GR-15-045 in DMSO-d6; I600; 7 Aug. 2020



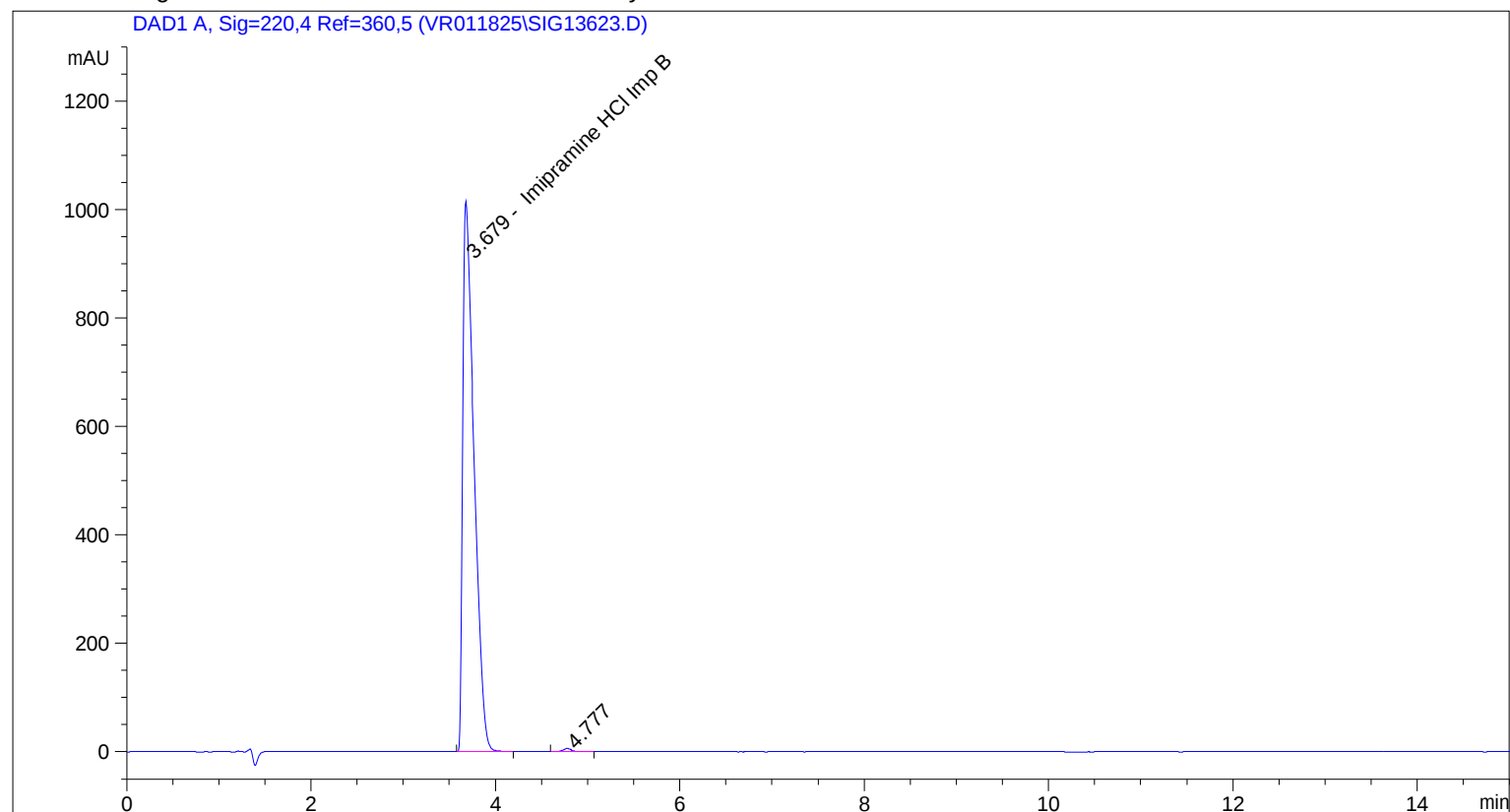
pp_2020_017_GR15045_002 #605 RT: 2.46 AV: 1 NL: 4.11E7
T: FTMS + c ESI Full ms [200.00-600.00]



ESI-MS spectrum for sample GR-15-045. Shows monoisotopic $[M+H]^+$ mass.

Sample Name: GR-15-045 spl-2

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 3
Injection Date  : 8/5/2025 11:19:39 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR080525_045.M
Last changed    : 8/5/2025 11:18:37 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR080625_045PM.M
Last changed    : 8/6/2025 8:15:38 AM by vrusu
=====
```



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                        Area Percent Report
=====
```

```
Sorted By           :      Signal
Calib. Data Modified :      8/6/2025 8:14:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

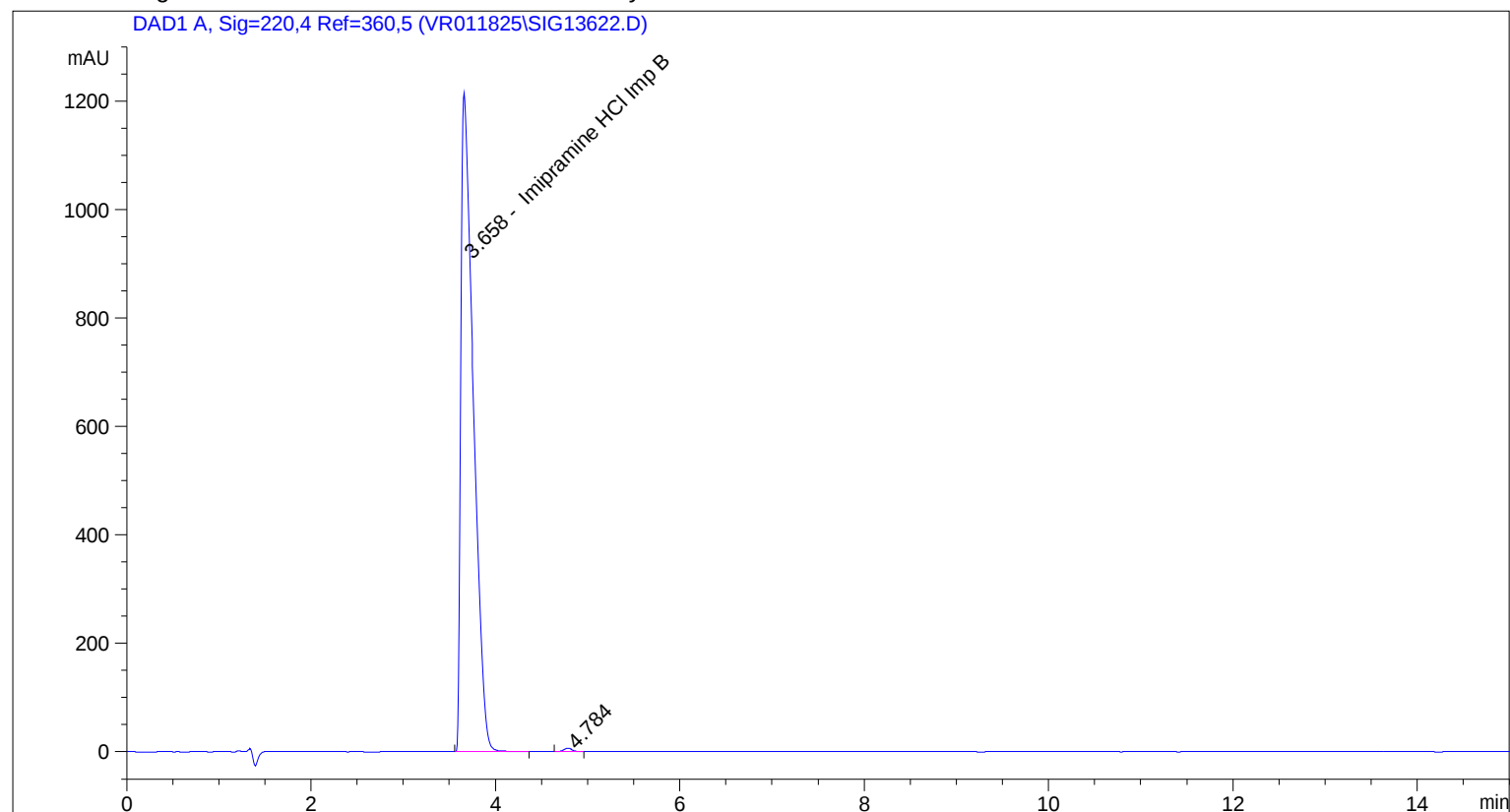
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.679	BB	0.1278	8682.03516	99.5719	Imipramine HCl Imp B
2	4.777	BB	0.0990	37.32570	0.4281	?

Totals : 8719.36086

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=====
*** End of Report ***
```

Sample Name: GR-15-045

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 2
Injection Date  : 8/5/2025 11:01:56 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR080525_045.M
Last changed    : 8/5/2025 11:00:53 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR080625_045PM.M
Last changed    : 8/6/2025 8:15:38 AM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      8/6/2025 8:14:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.658	BB	0.1420	1.14484e4	99.6581	Imipramine HCl Imp B
2	4.784	BB	0.0957	39.27355	0.3419	?

Totals : 1.14877e4

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*** End of Report ***
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