

## Supplementary Material

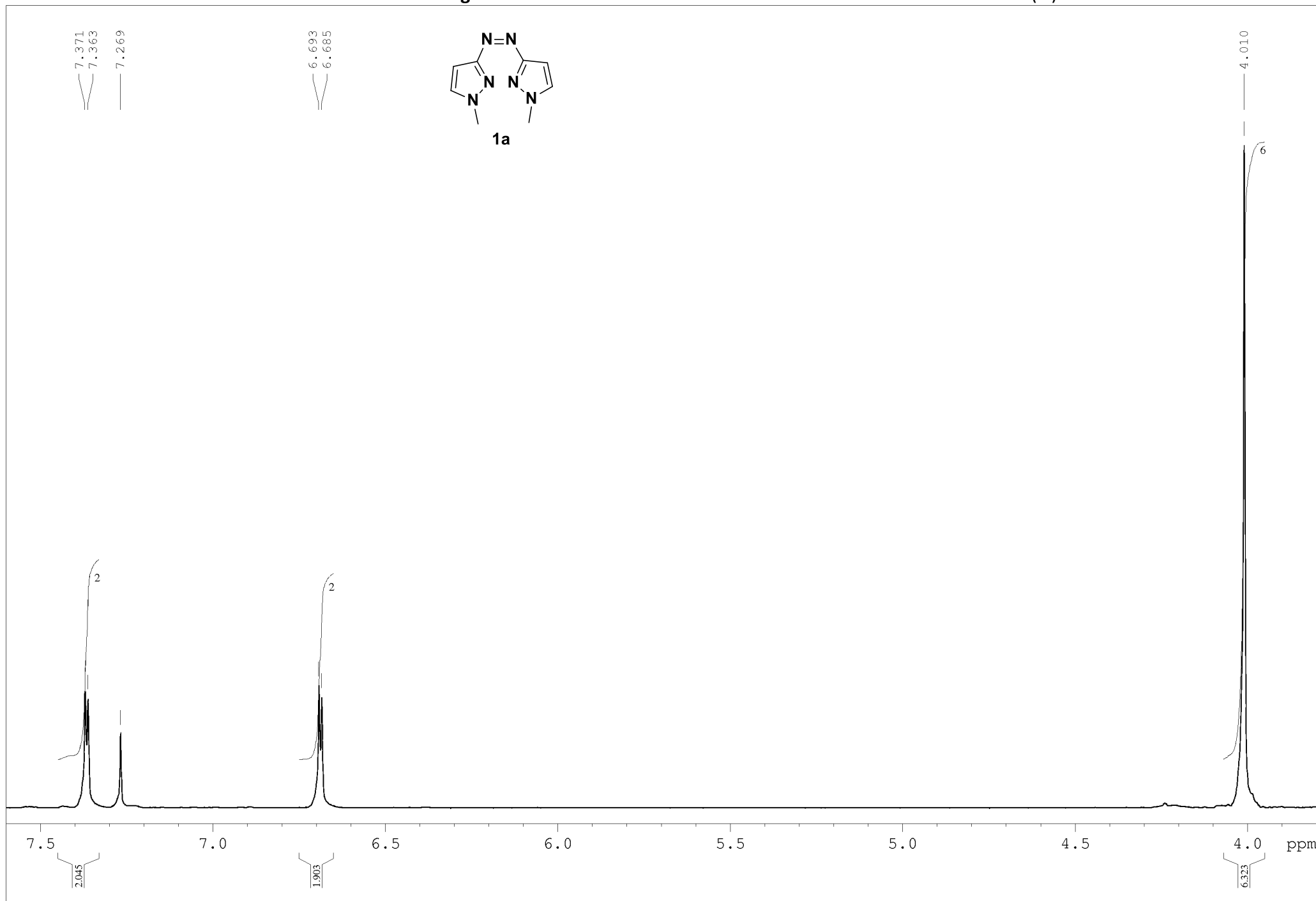
## Oxidative conversion of N-substituted 3-aminopyrazoles to azopyrazoles using electrogenerated NaOCl as the mediator

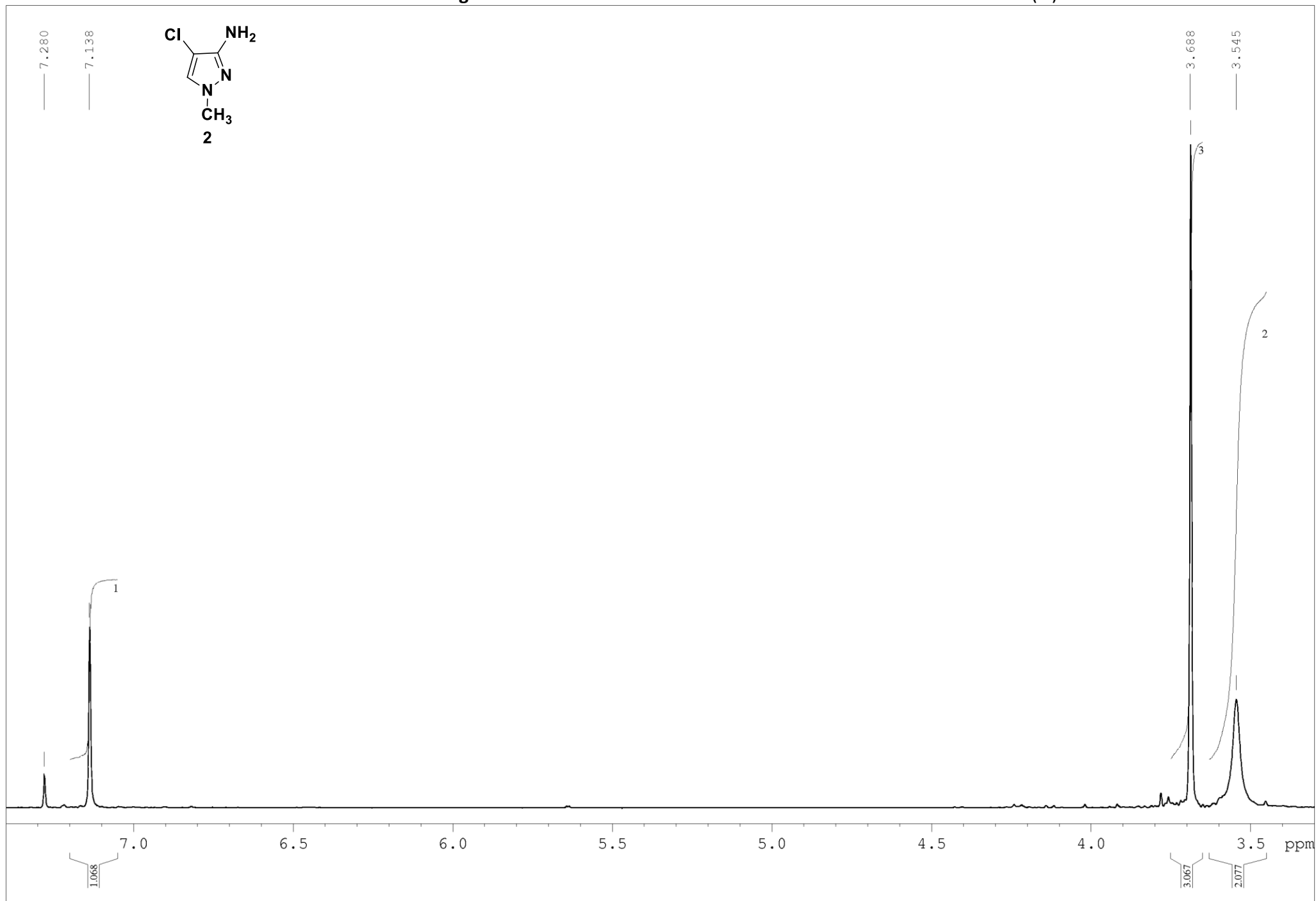
Boris V. Lyalin, Vera L. Sigacheva, Vladimir A. Kokorekin, and Vladimir A. Petrosyan\*

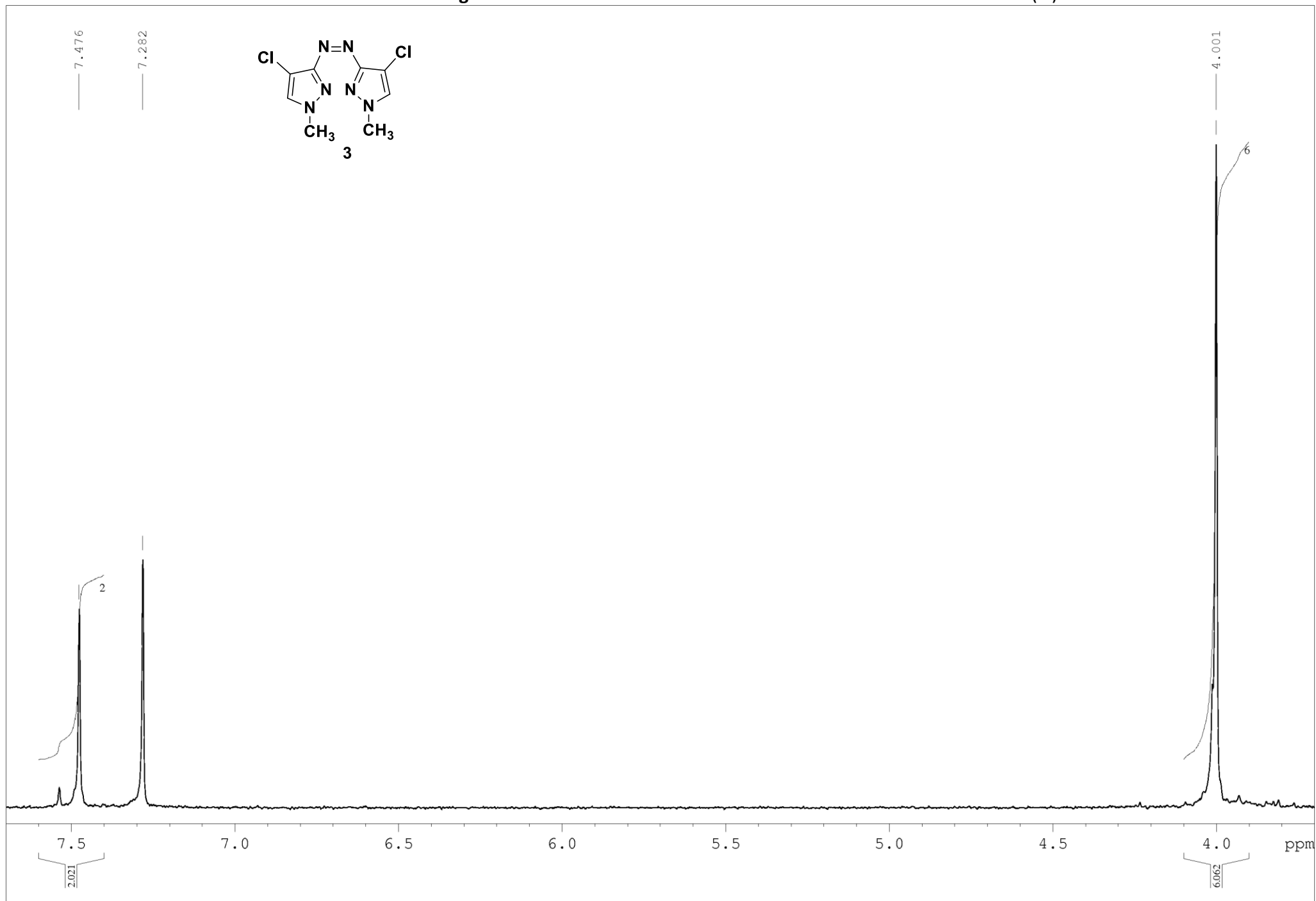
*N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, 119991 Moscow, Russian Federation**First I. M. Sechenov Moscow State Medical University, 119991 Moscow, Russian Federation*Email: [petros@ioc.ac.ru](mailto:petros@ioc.ac.ru)

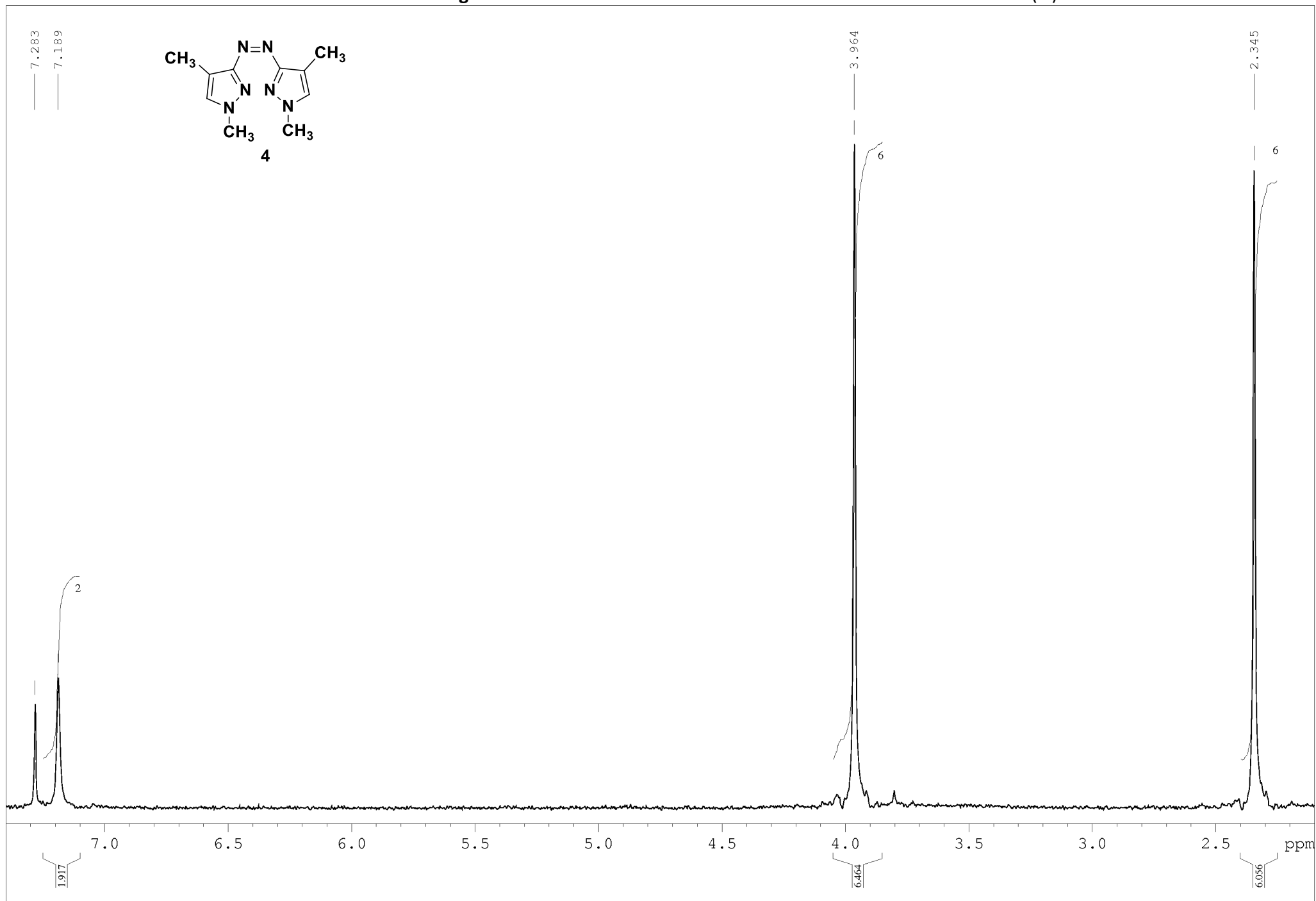
## Table of Contents

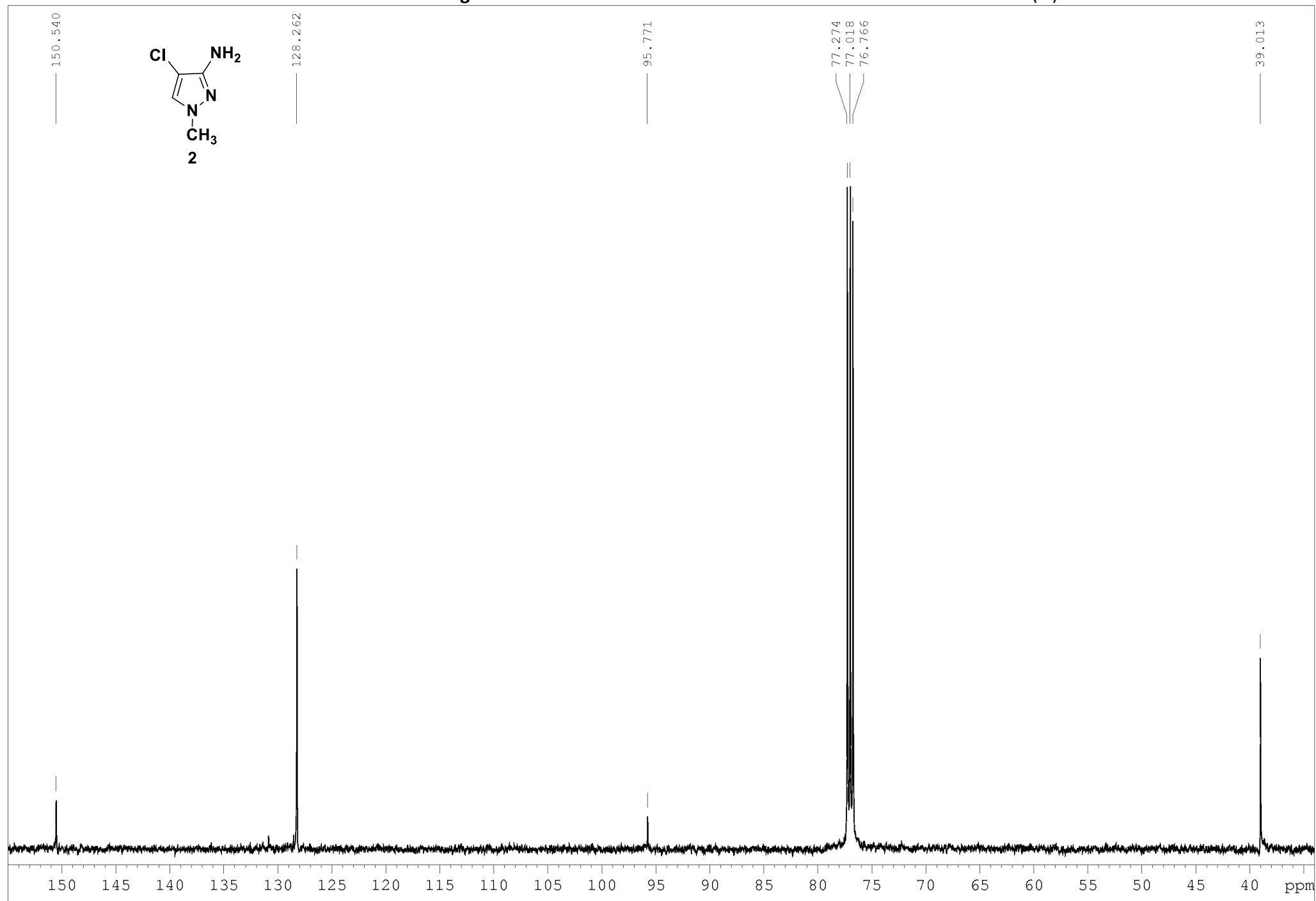
<sup>1</sup> H-NMR spectra of compound <b>1a</b>	<b>S2</b>
<sup>1</sup> H-NMR spectra of compound <b>2</b>	<b>S3</b>
<sup>1</sup> H-NMR spectra of compound <b>3</b>	<b>S4</b>
<sup>1</sup> H-NMR spectra of compound <b>4</b>	<b>S5</b>
<sup>13</sup> C-NMR spectra of compound <b>2</b>	<b>S6</b>
<sup>13</sup> C-NMR spectra of compound <b>3</b>	<b>S7</b>
<sup>13</sup> C-NMR spectra of compound <b>4</b>	<b>S8</b>
HRMS of compound <b>1a</b>	<b>S9</b>
HRMS of compound <b>2</b>	<b>S10</b>
HRMS of compound <b>3</b>	<b>S11</b>
HRMS of compound <b>4</b>	<b>S12</b>

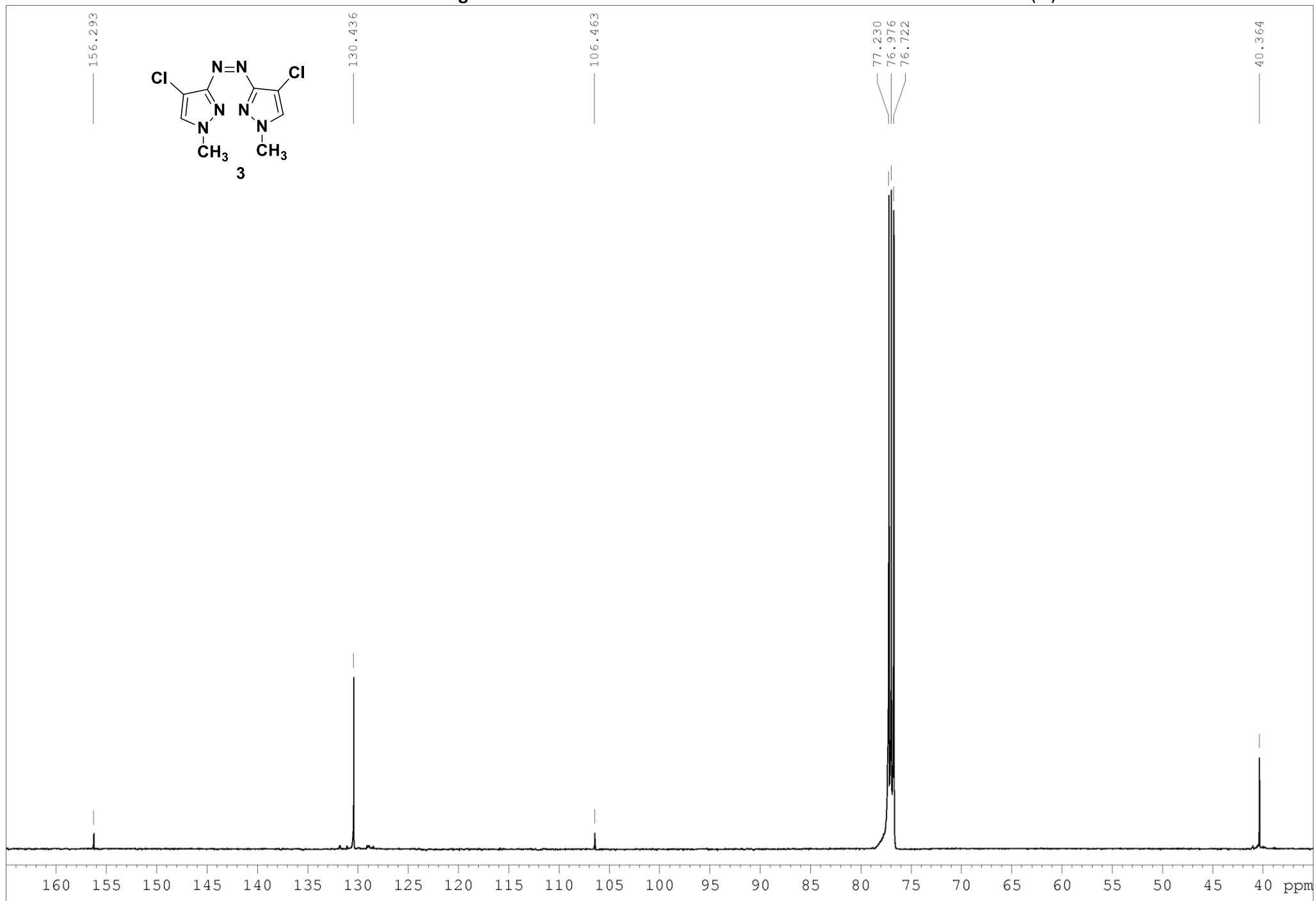


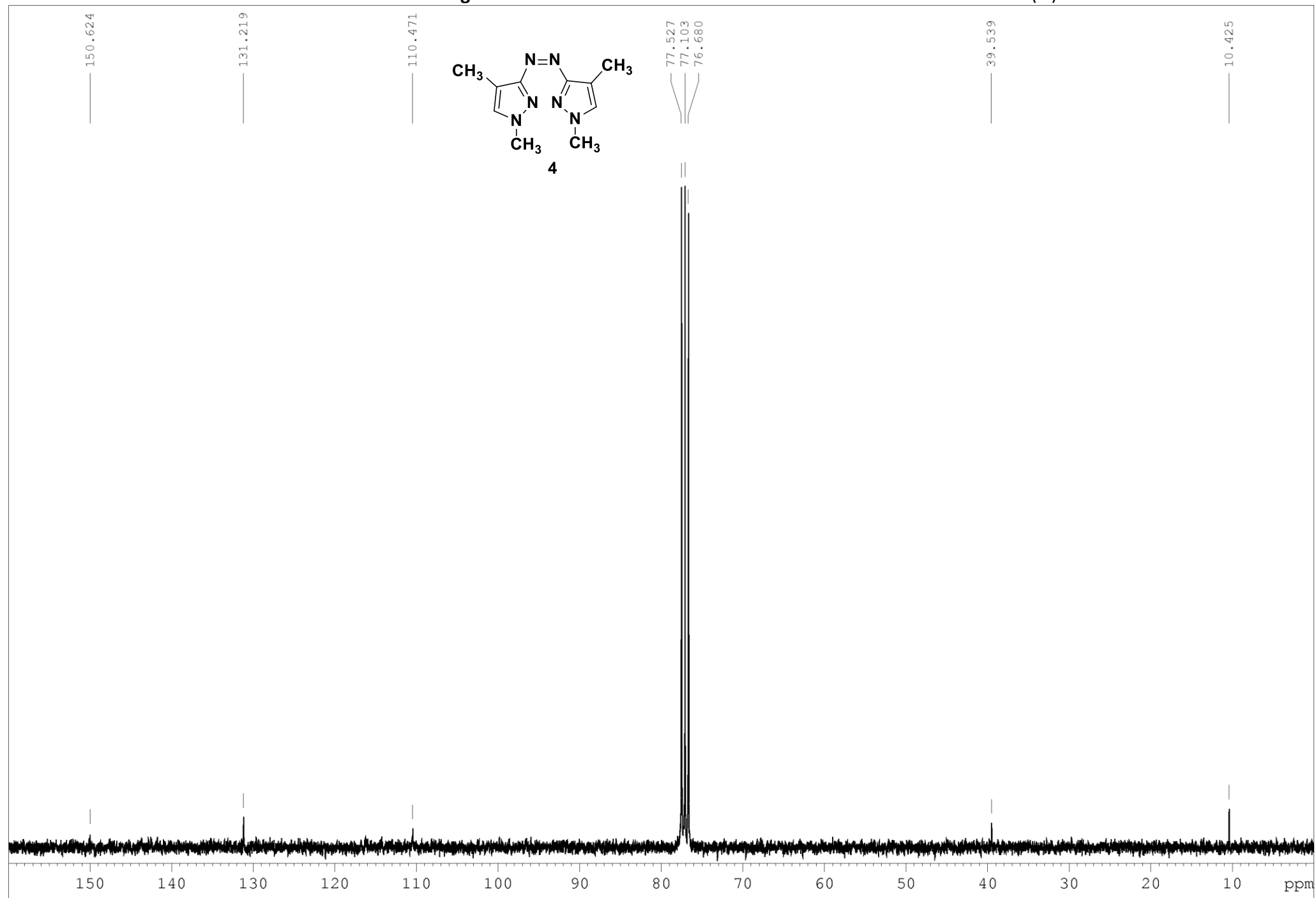














## Display Report

## Analysis Info

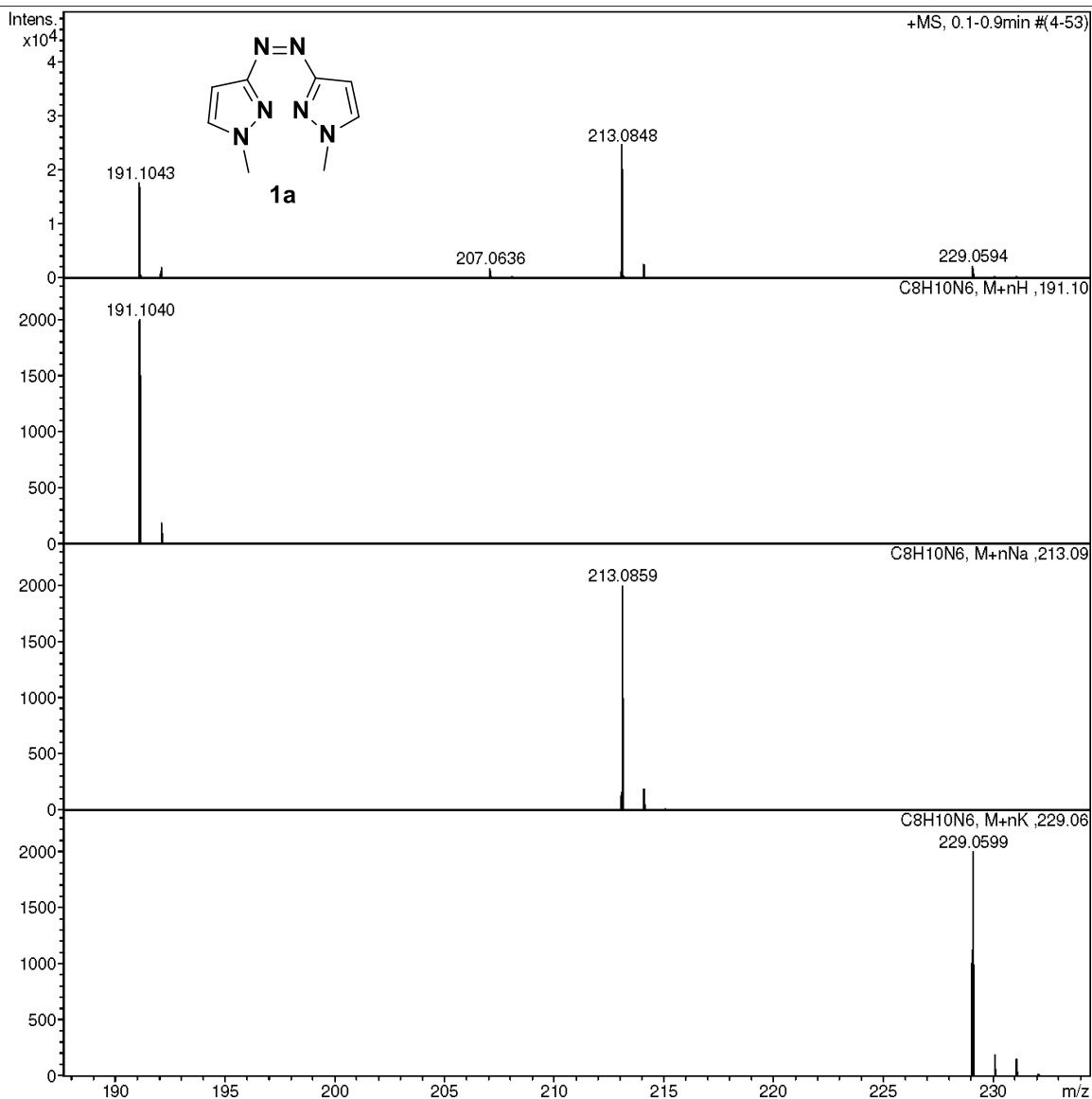
Analysis Name D:\Data\Kolotyrkina\2015\Sigacheva\0211026.d  
Method tune\_low.m  
Sample Name /VAPP SIG-mass-011  
Comment C8H10N6 mw 190 clb added

Acquisition Date 11.02.2015 15:59:34

Operator BDAL@DE  
Instrument / Ser# micrOTOF 10248

## Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste



## Display Report

## Analysis Info

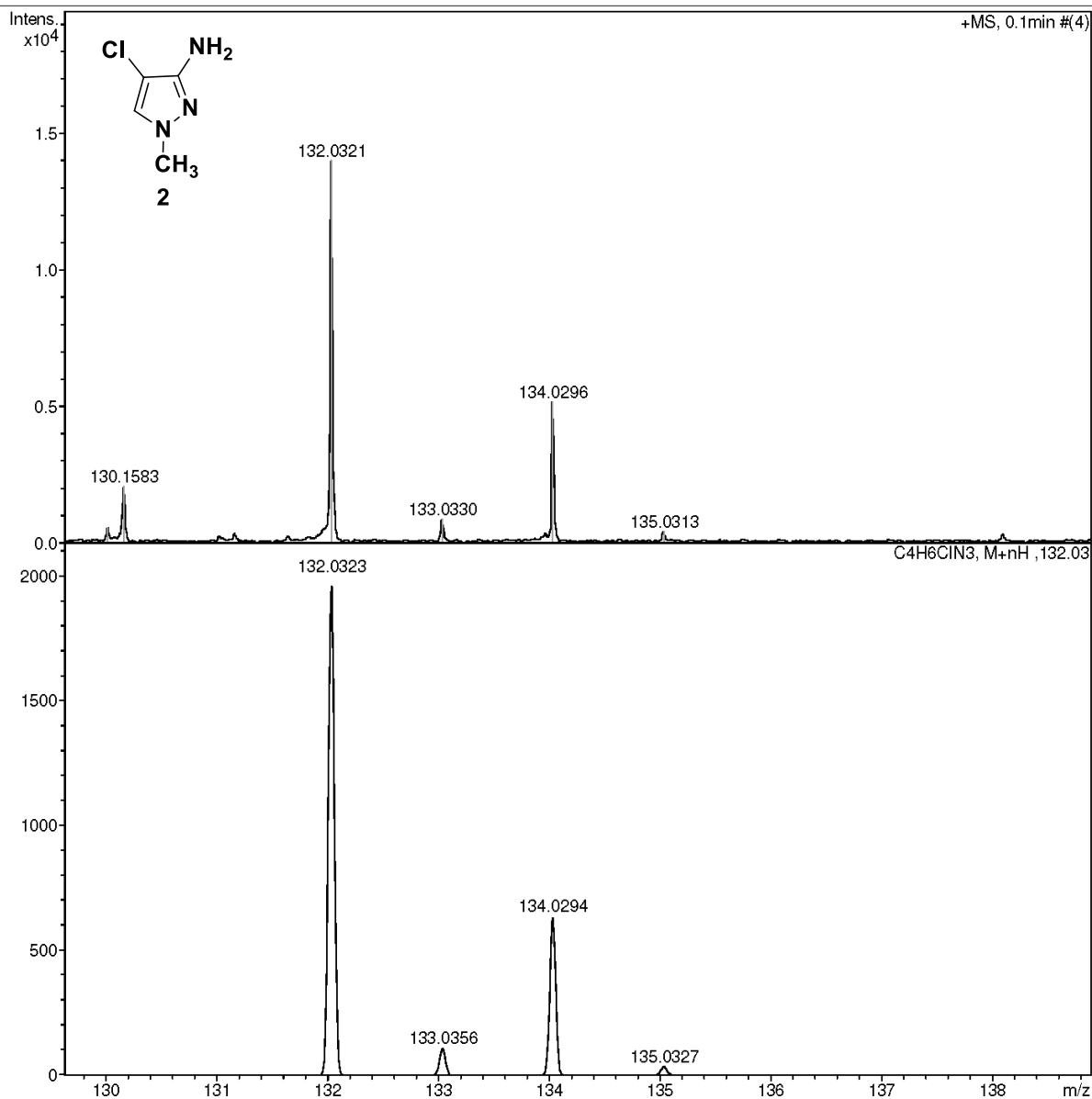
Analysis Name D:\Data\Kolotyrkina\2015\Sigachova\1022004.d  
Method tune\_low.m  
Sample Name /VAPP sigmass016  
Comment C4H6ClN3 mw 131 calibrant added

Acquisition Date 22.10.2015 10:16:24

Operator BDAL@DE  
Instrument / Ser# micrOTOF 10248

## Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste



## Display Report

## Analysis Info

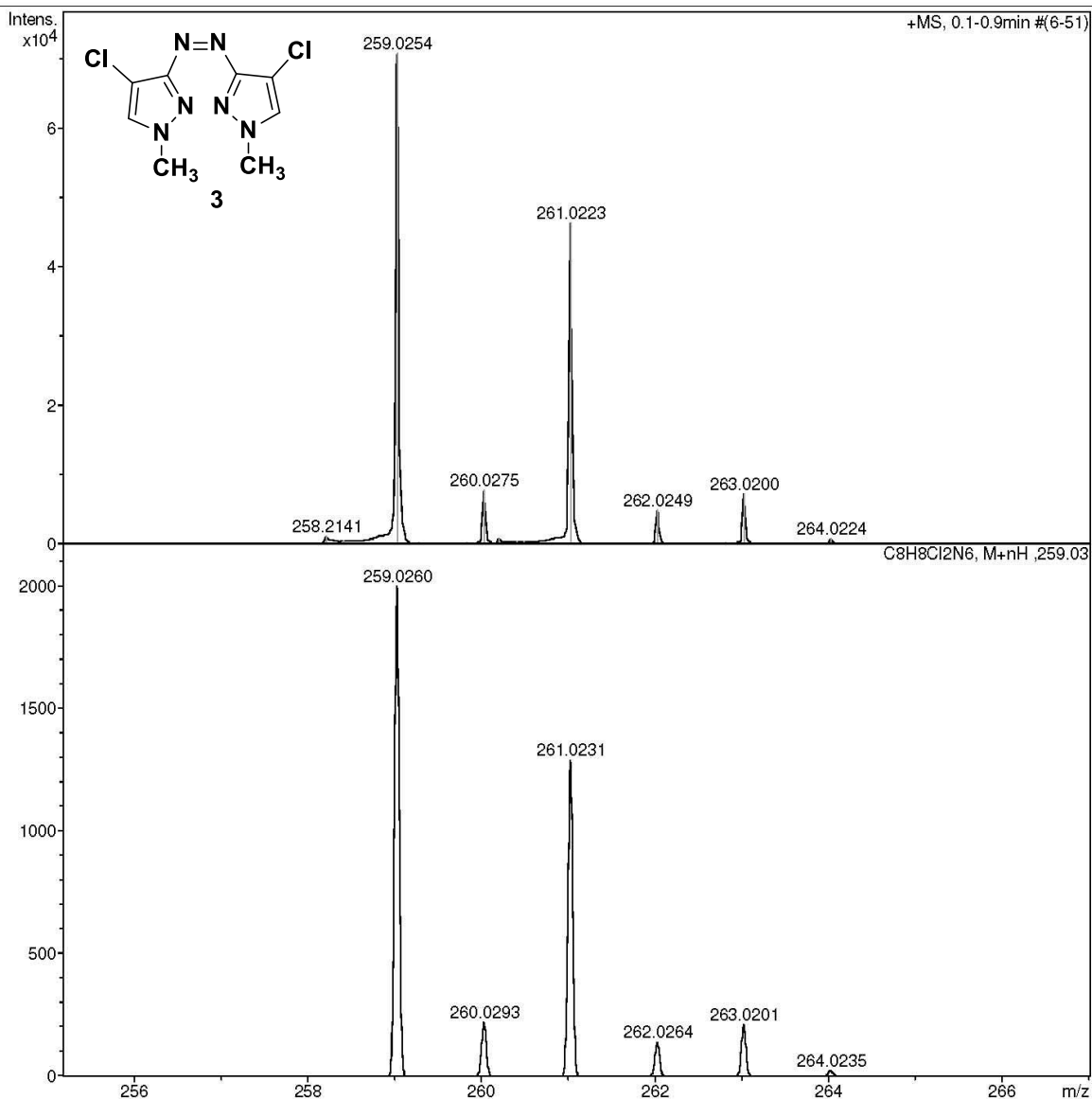
Analysis Name D:\Data\Kolotyrkina\2016\Sigacheva\0517015.d  
Method tune\_low.m  
Sample Name /VAPP Sigmass025  
Comment C8H8Cl2N6 mW 259.026 clb added

Acquisition Date 17.05.2016 16:35:21

Operator BDAL@DE  
Instrument / Ser# micrOTOF 10248

## Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste



## Display Report

## Analysis Info

Analysis Name D:\Data\Chizhov\Egorov\Sigacheva\sigmass20\_&clblow.d  
Method tune\_low.m  
Sample Name /VAPP Sigmass20  
Comment CH3CN 100 %, dil. 200, calibrant added

Acquisition Date 14.03.2016 14:12:40  
Operator BDAL@DE  
Instrument / Ser# micrOTOF 10248

## Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste

