

Supplementary Information

4,5-Bis(arylethynyl)-1,2,3-triazoles—A New Class of Fluorescent Labels: Synthesis and Applications

Anastasia I. Govdi ^{1,*}, Polina V. Tokareva ¹, Andrey M. Rumyantsev ², Maxim S. Panov ¹, Johannes Stellmacher ³, Ulrike Alexiev ³, Natalia A. Danilkina ¹ and Irina A. Balova ^{1,*}

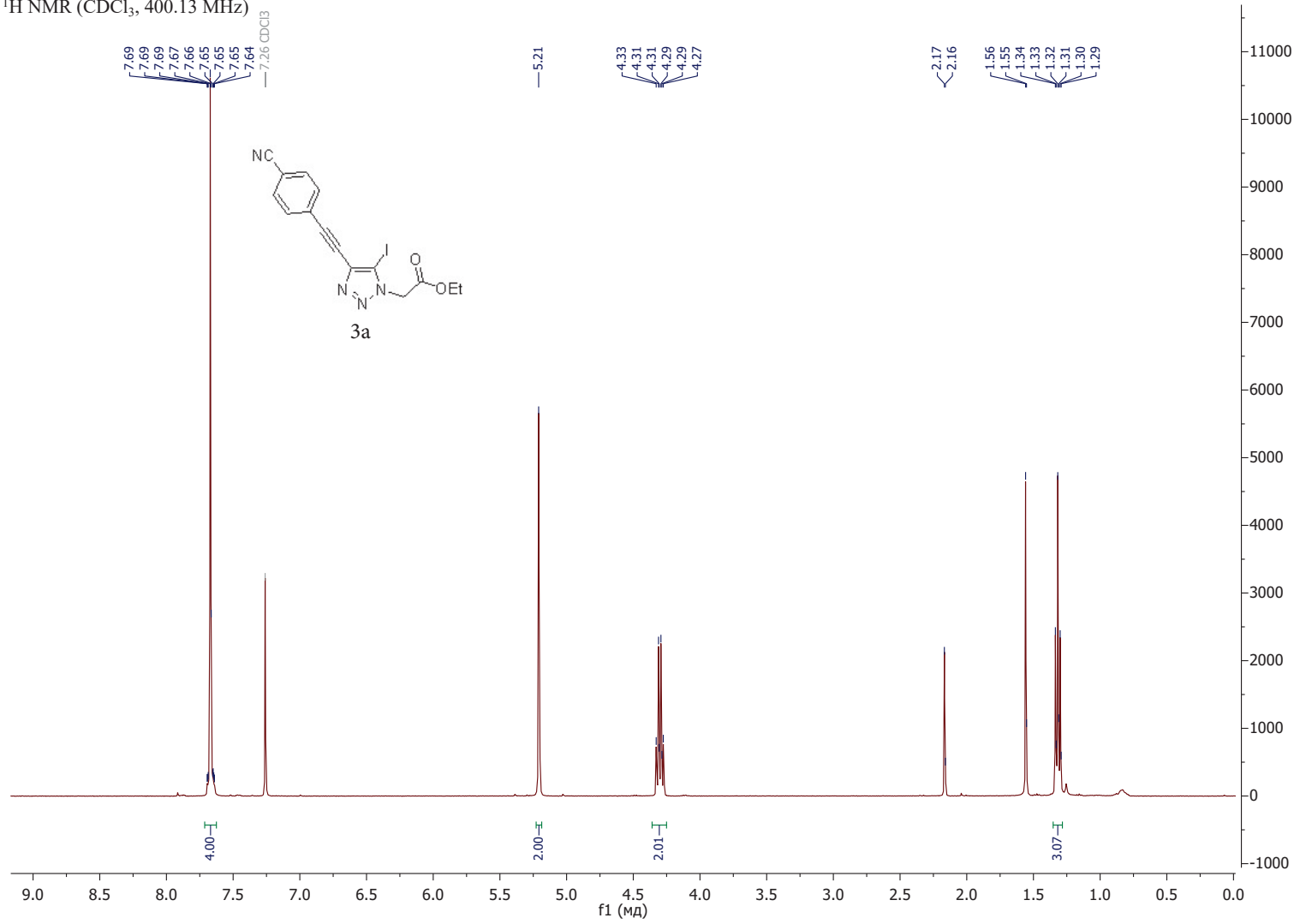
¹ Institute of Chemistry, Saint Petersburg State University (SPbU), Universitetskaya nab. 7/9, 199034 Saint Petersburg, Russia; tokareva.spbu@gmail.com (P.V.T.); m.s.panov@spbu.ru (M.S.P.); danilkina.natalia@gmail.com (N.A.D.)

² Department of Genetics and Biotechnology, Saint Petersburg State University (SPbU), Universitetskaya nab. 7/9, 199034 Saint Petersburg, Russia; rumyantsev-am@mail.ru

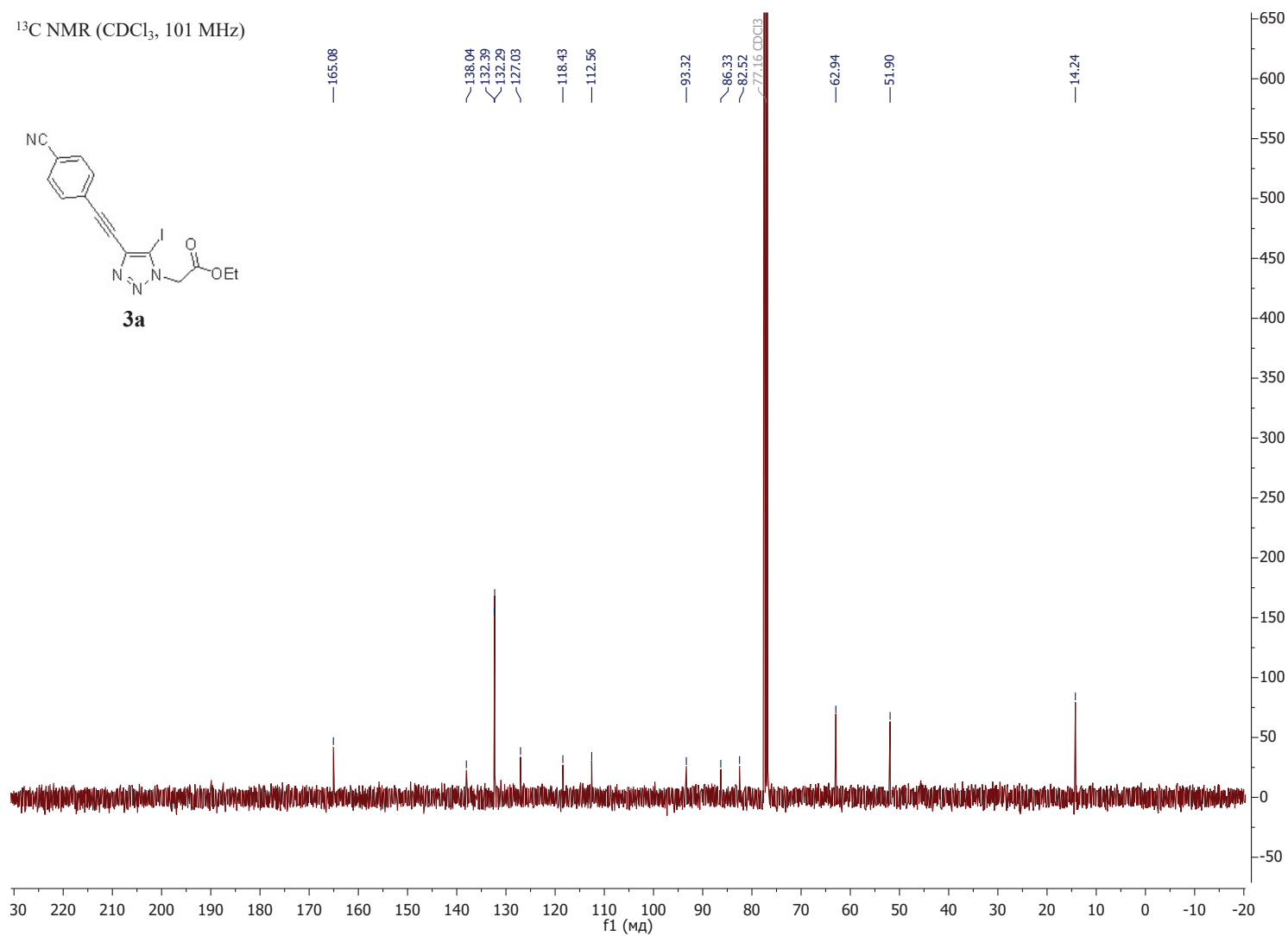
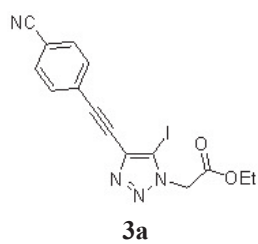
³ Department of Physics, Institute of Experimental Physics, Freie Universität Berlin, Arnimallee 14, 14195 Berlin, Germany; jcart@zedat.fu-berlin.de (J.S.); ulrike.alexiev@fu-berlin.de (U.A.)

* Correspondence: a.govdi@spbu.ru (A.I.G.); i.balova@spbu.ru (I.A.B.); Tel.: +7-812-428-4054 (A.I.G.); +7-812-428-6733 (I.A.B.)

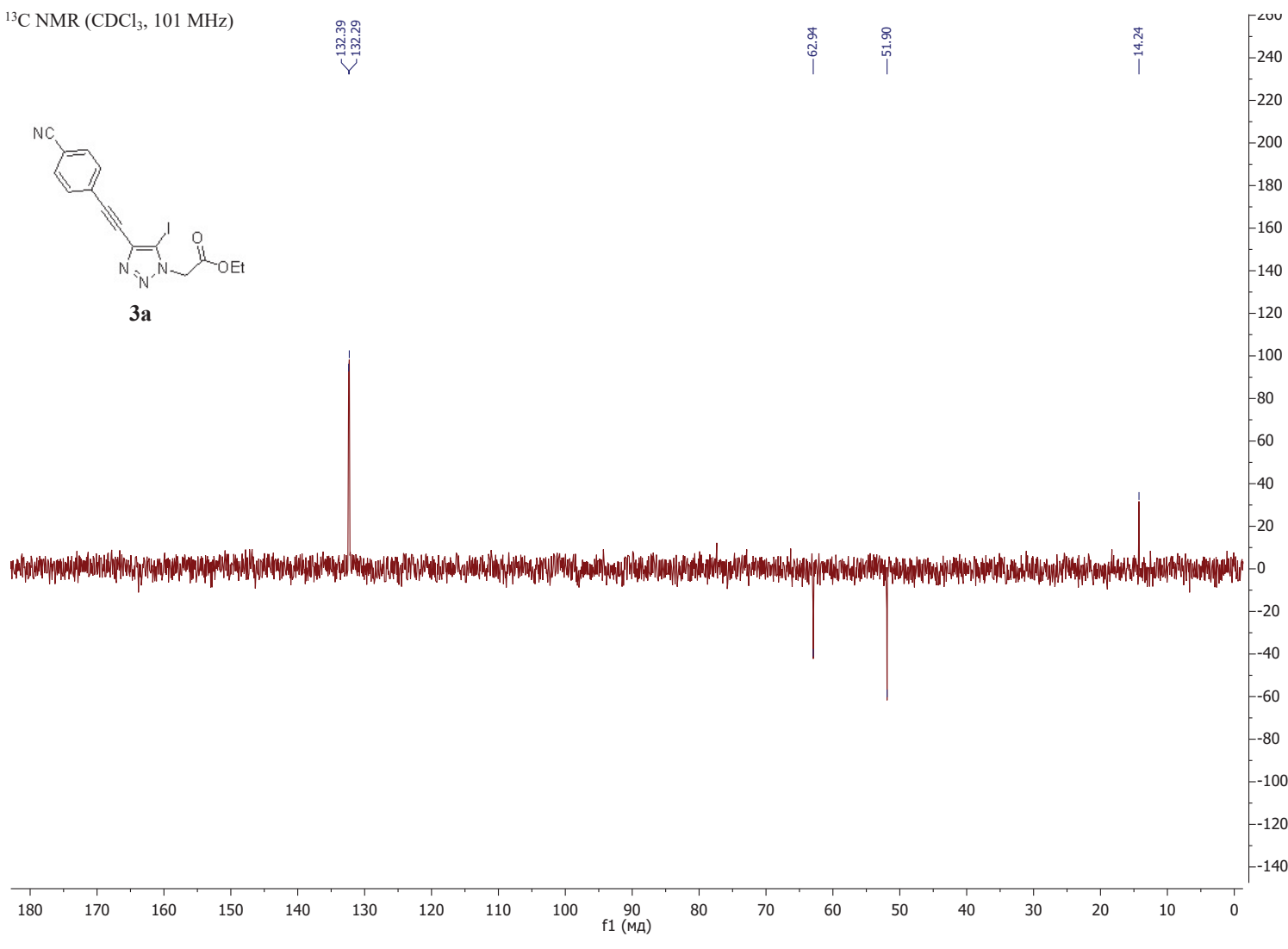
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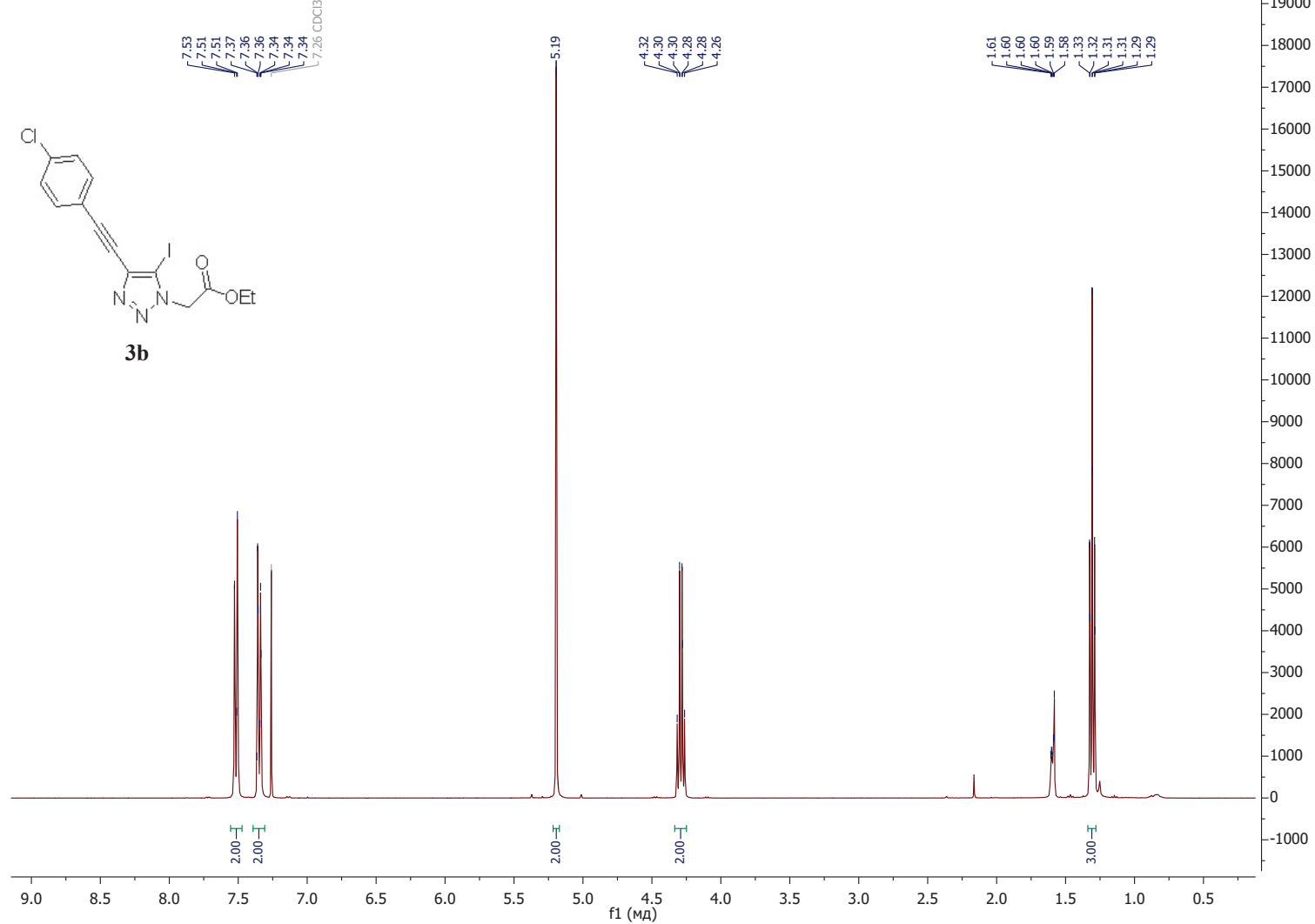
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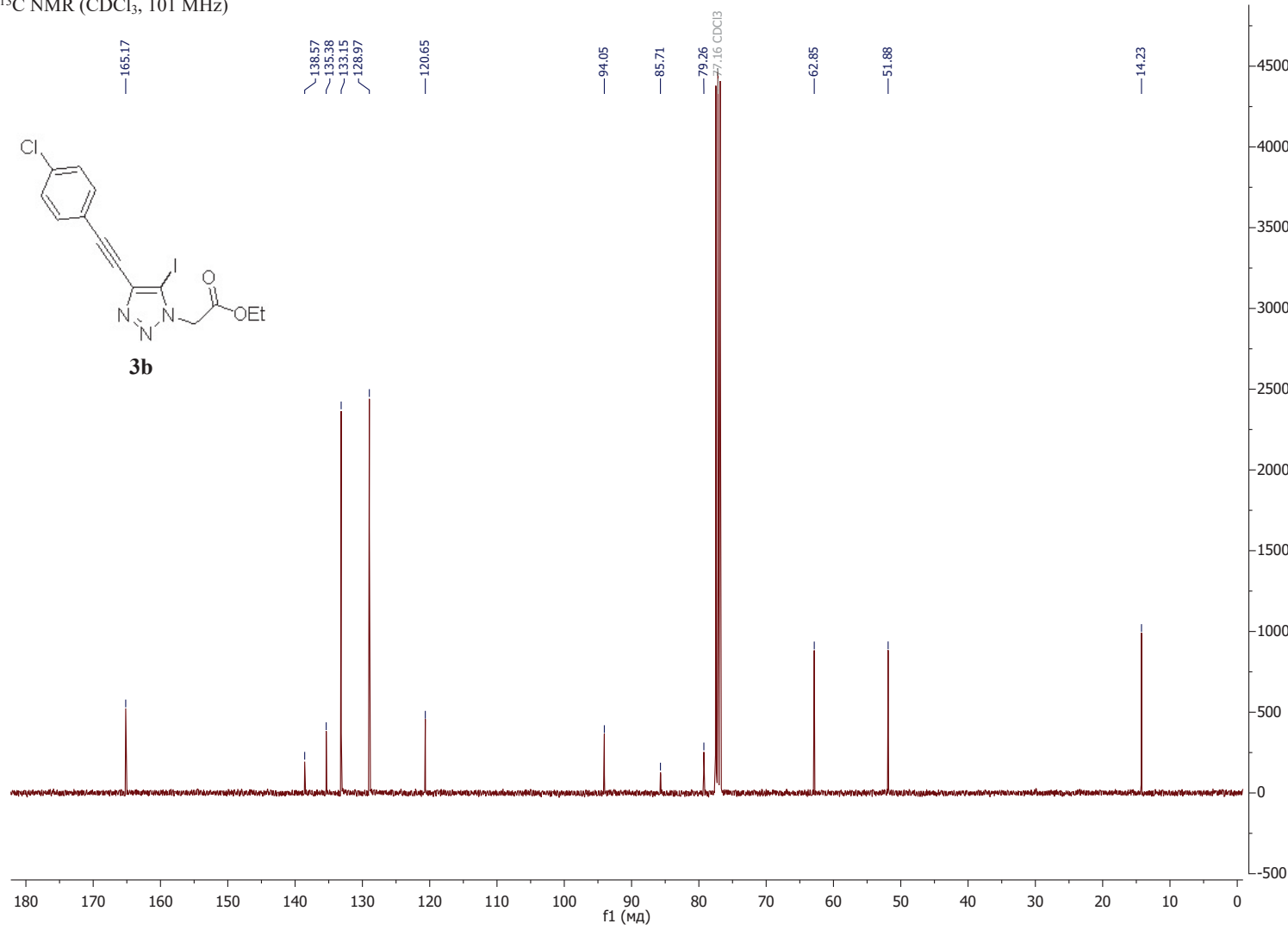
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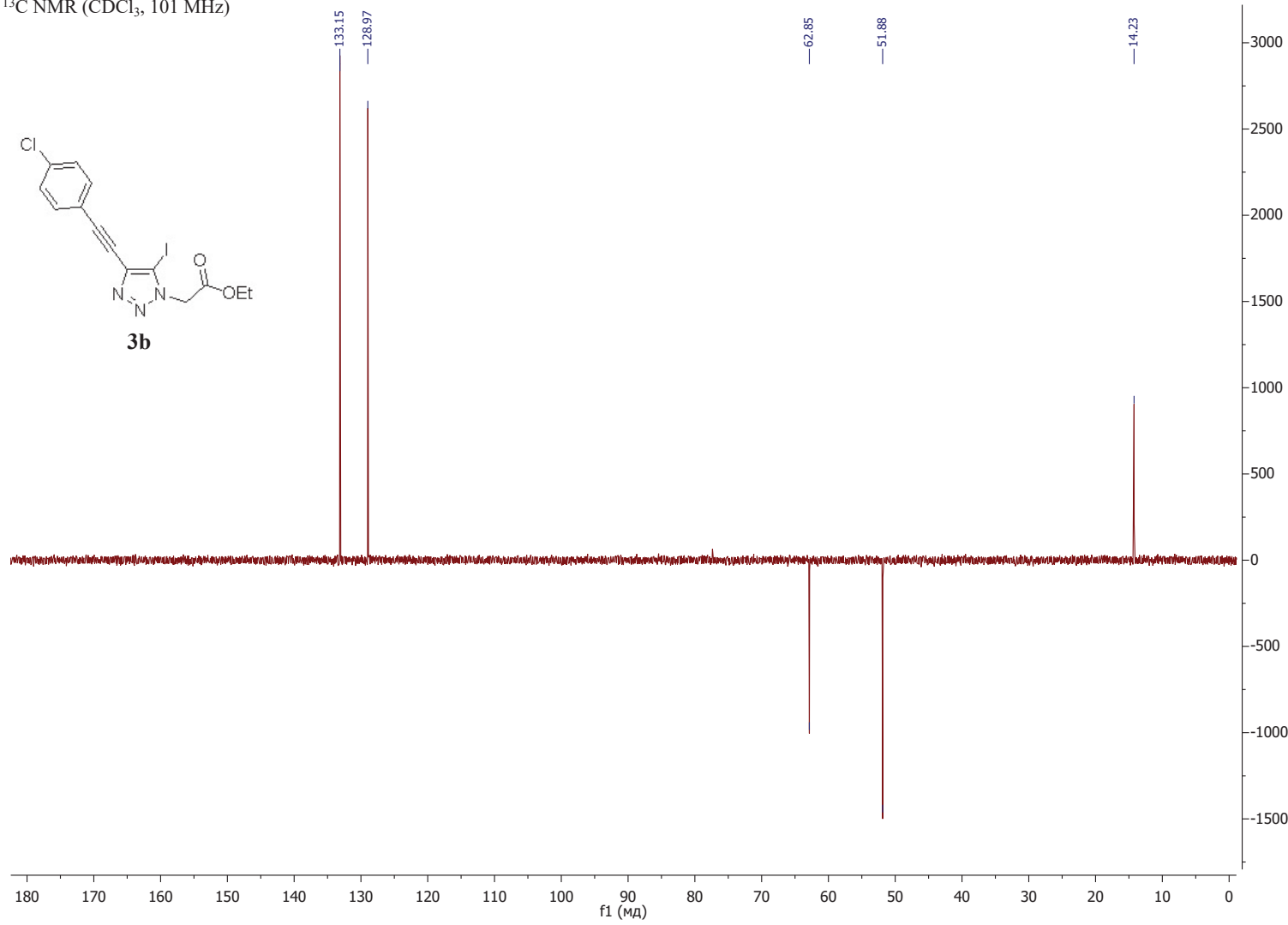
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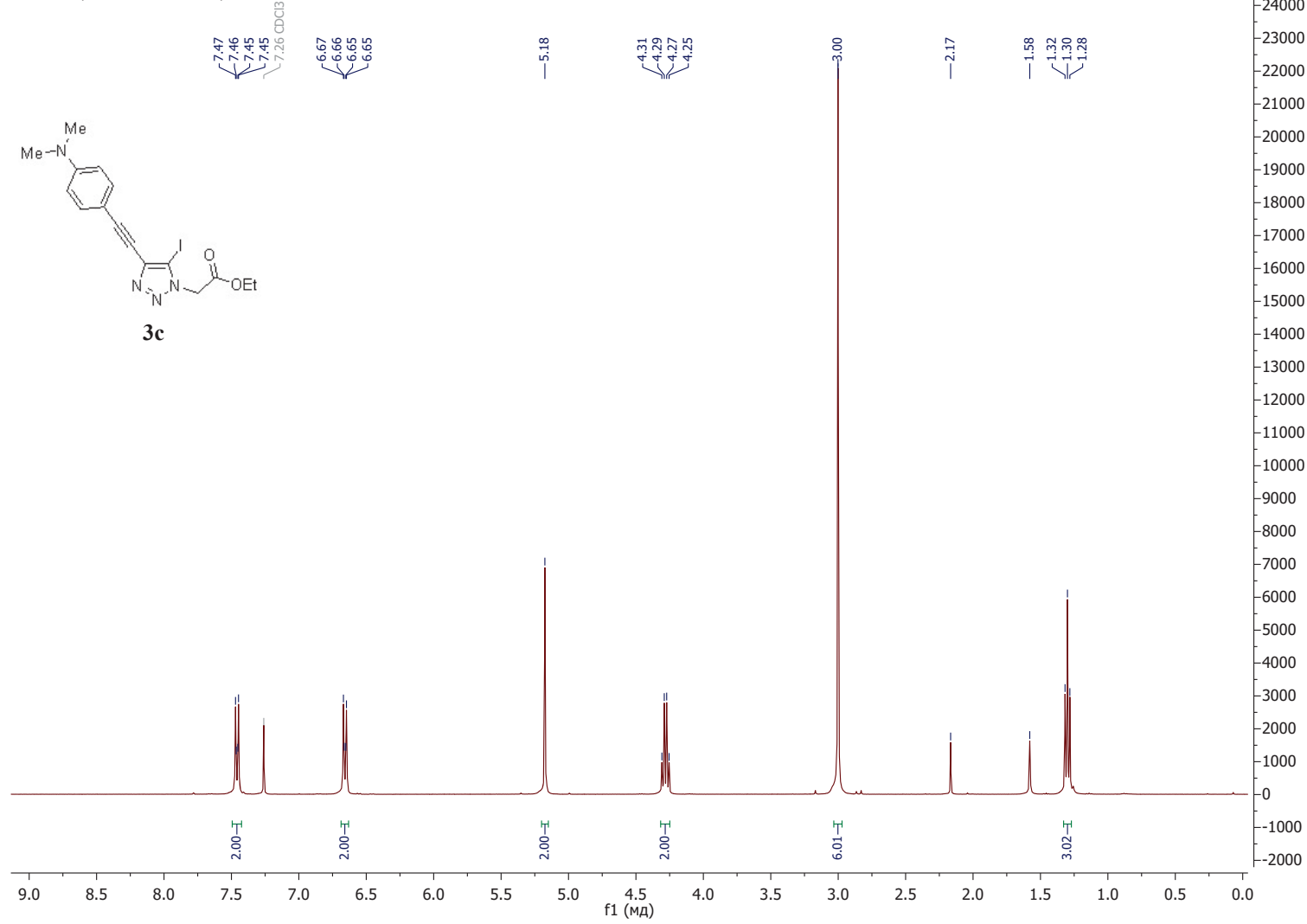
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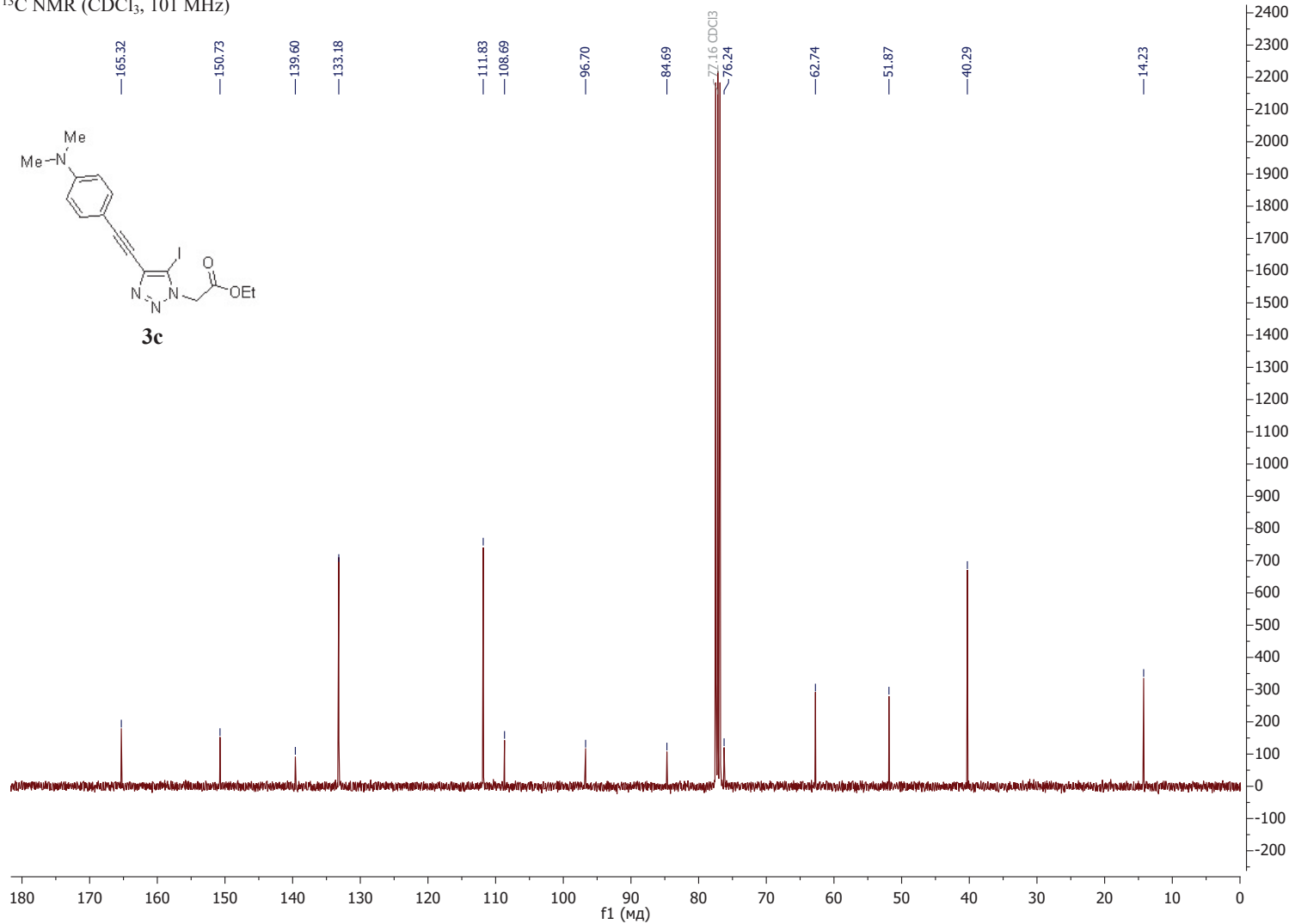
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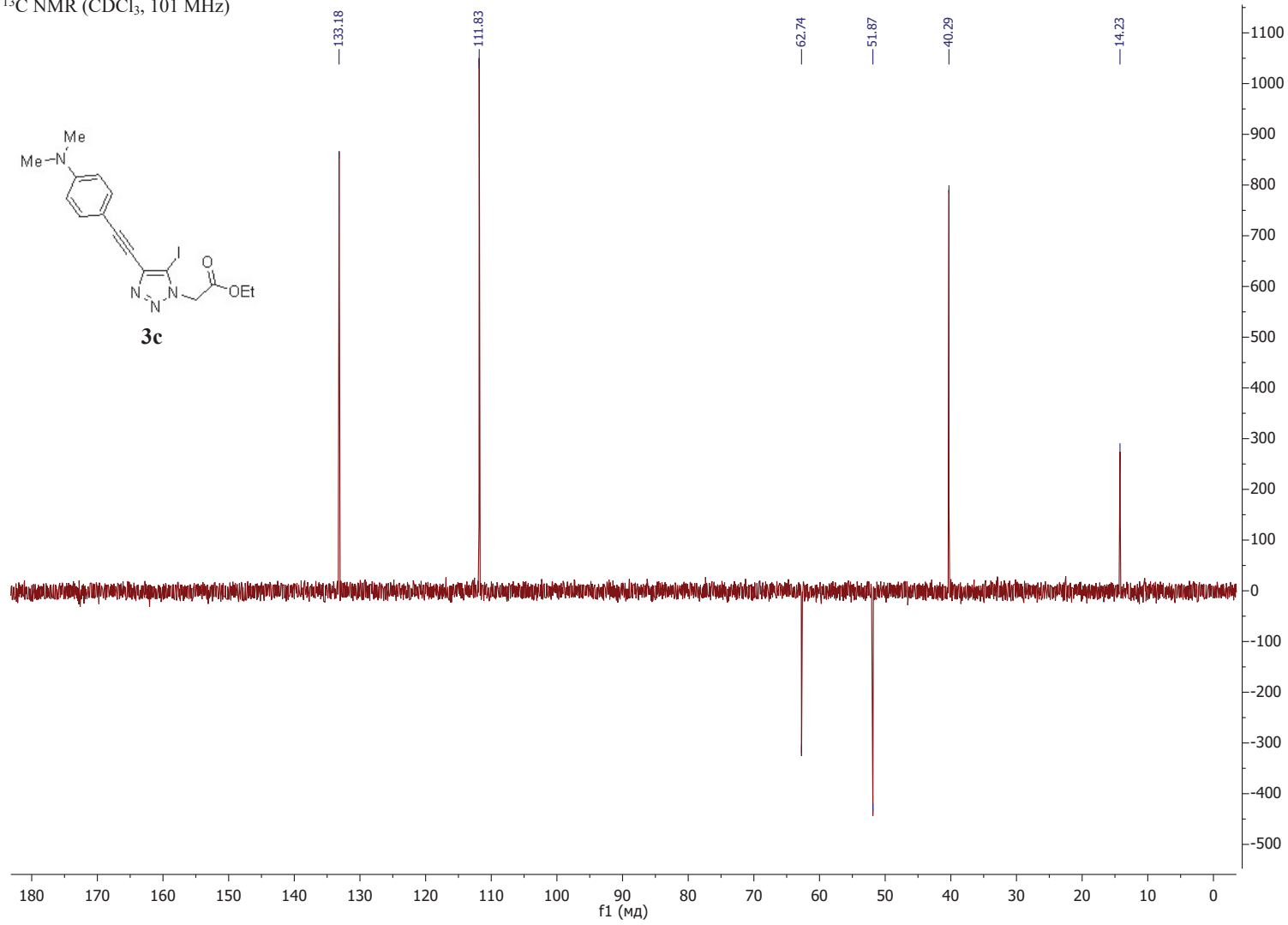
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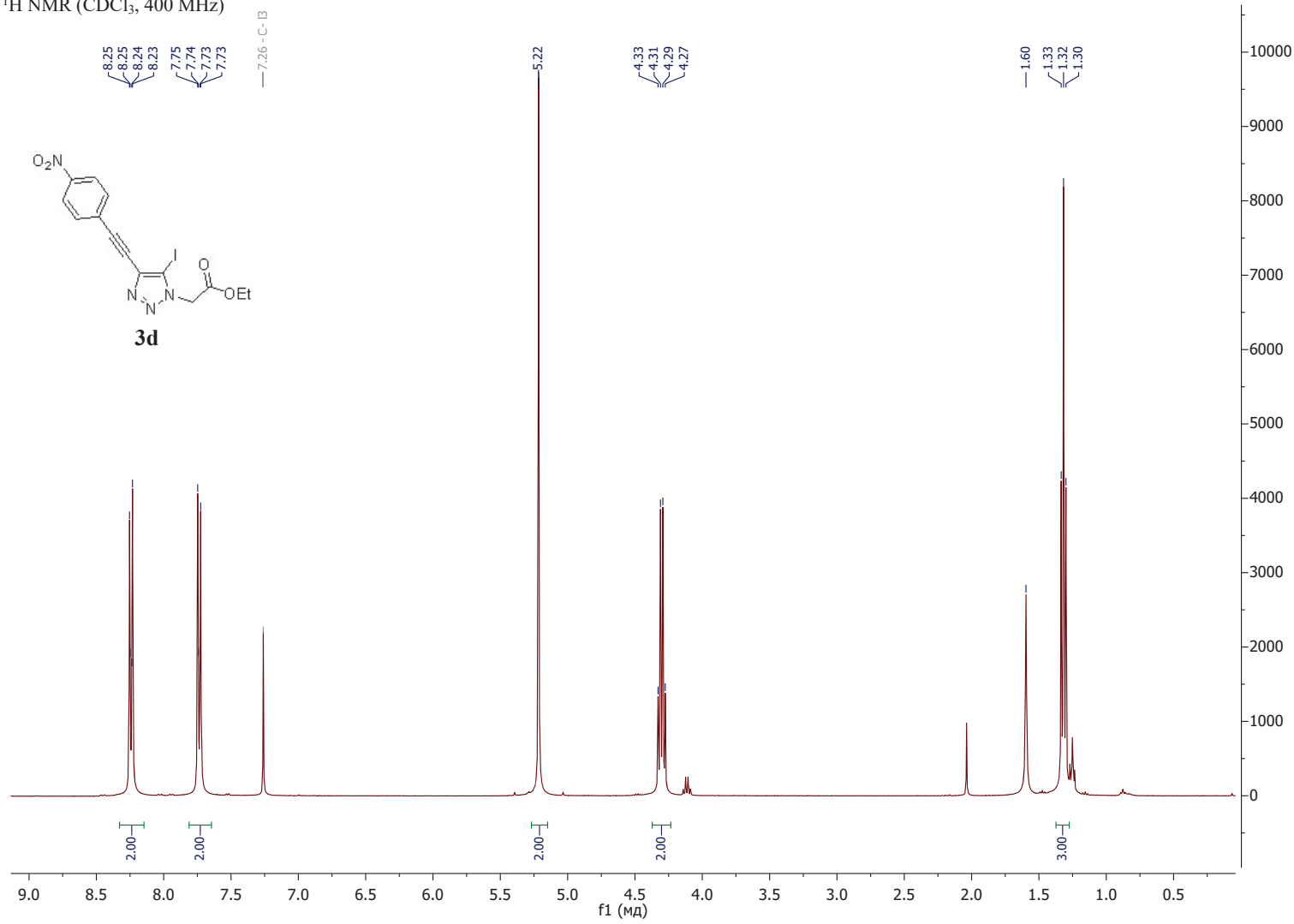
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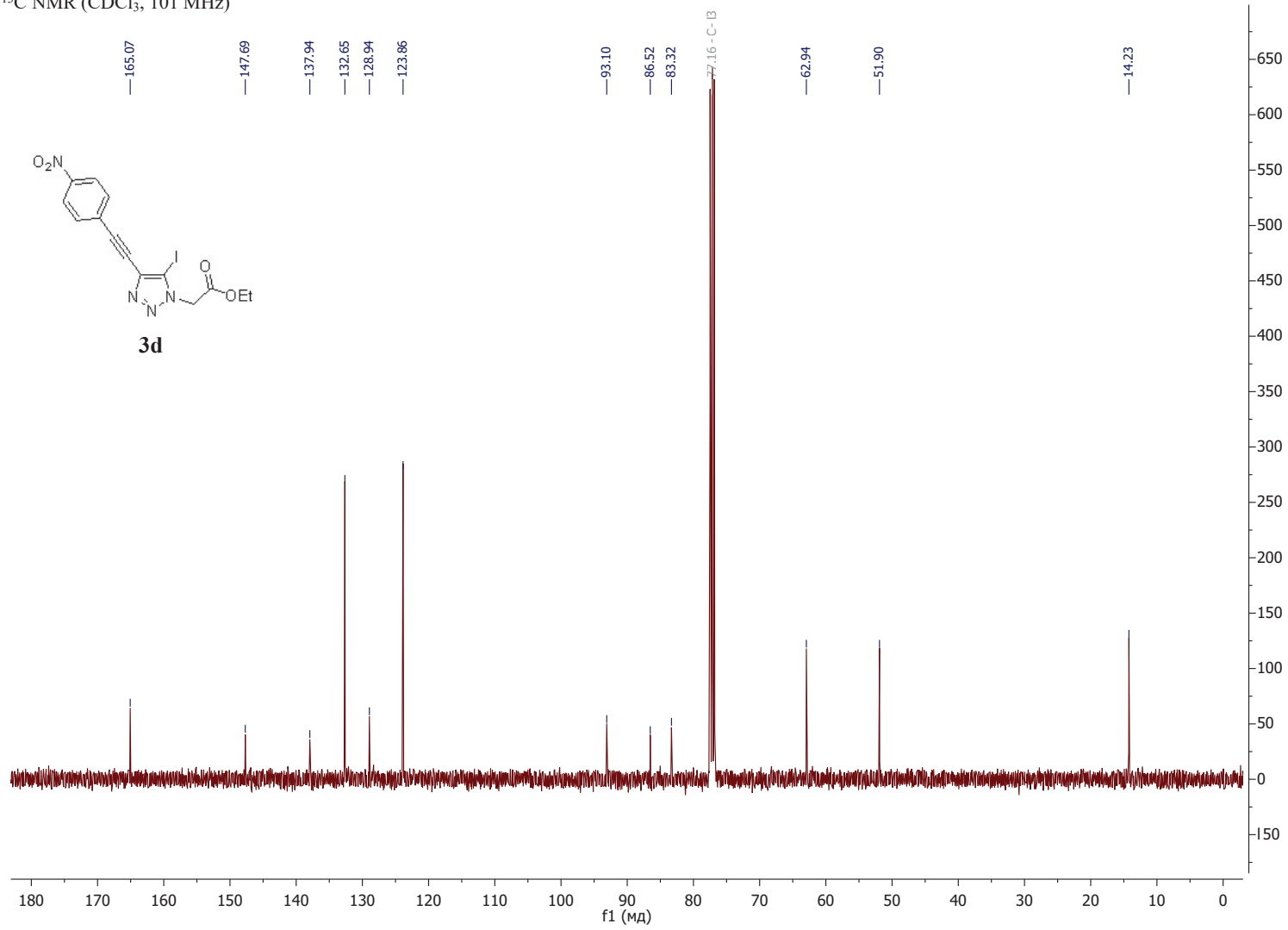
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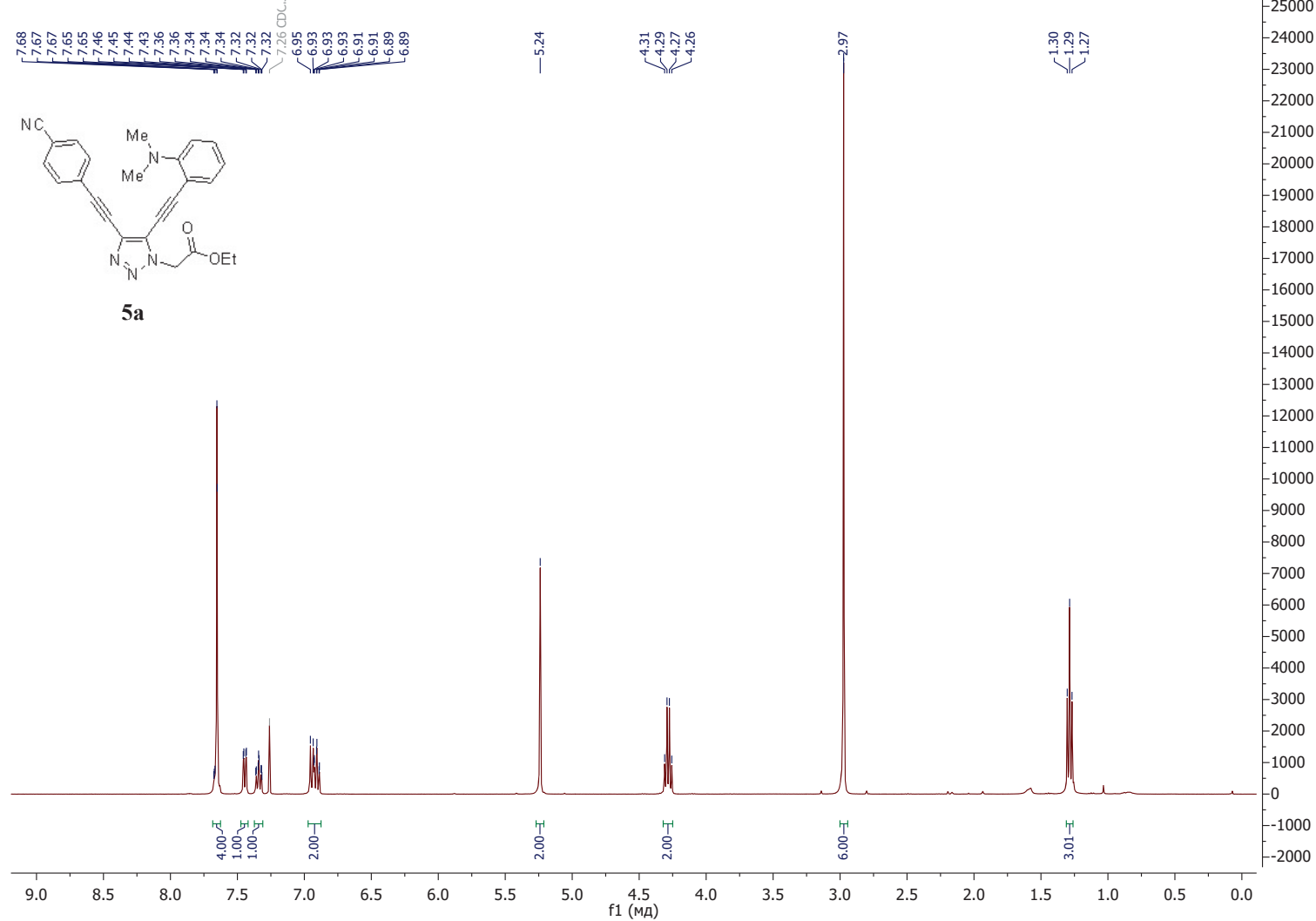
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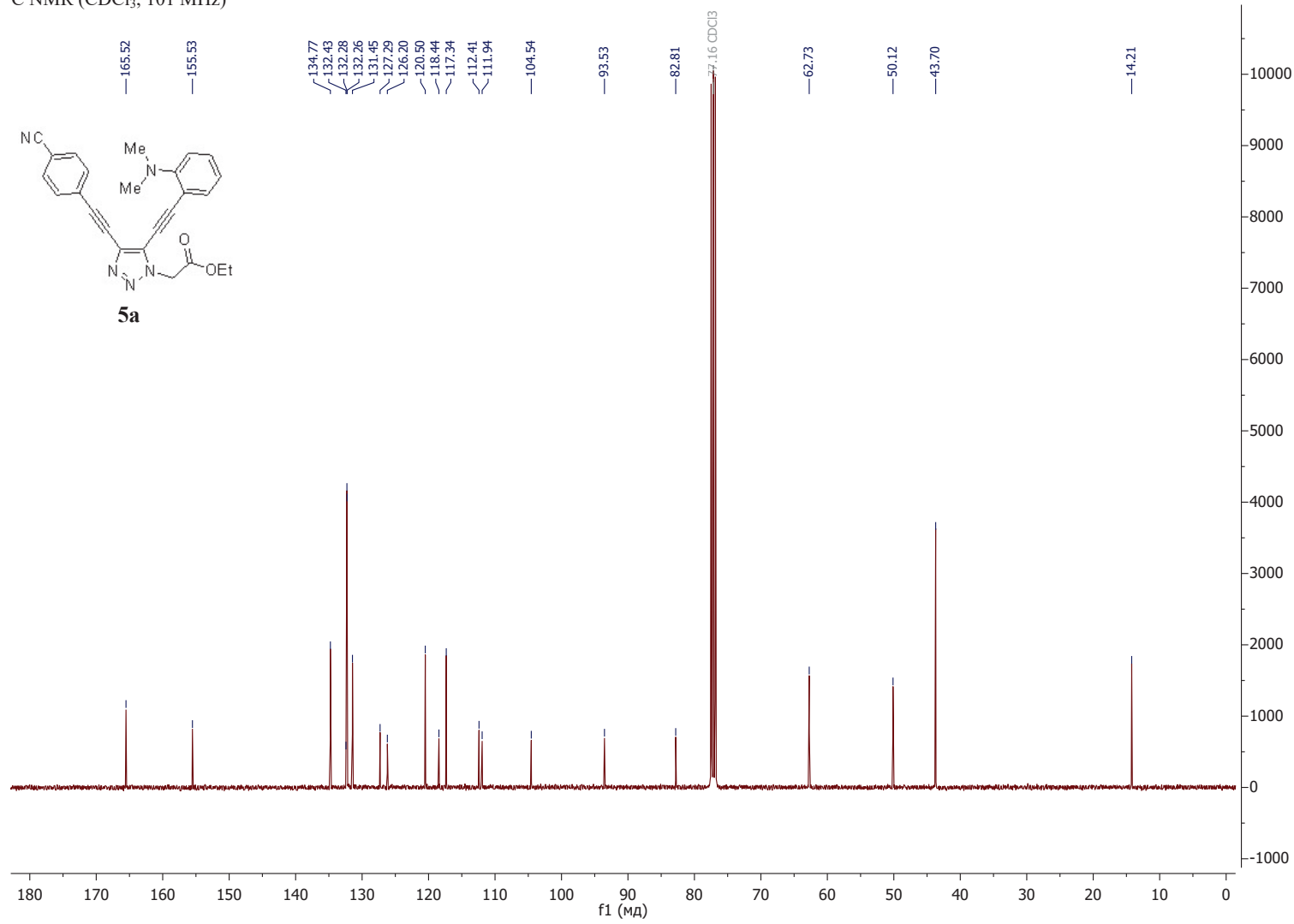
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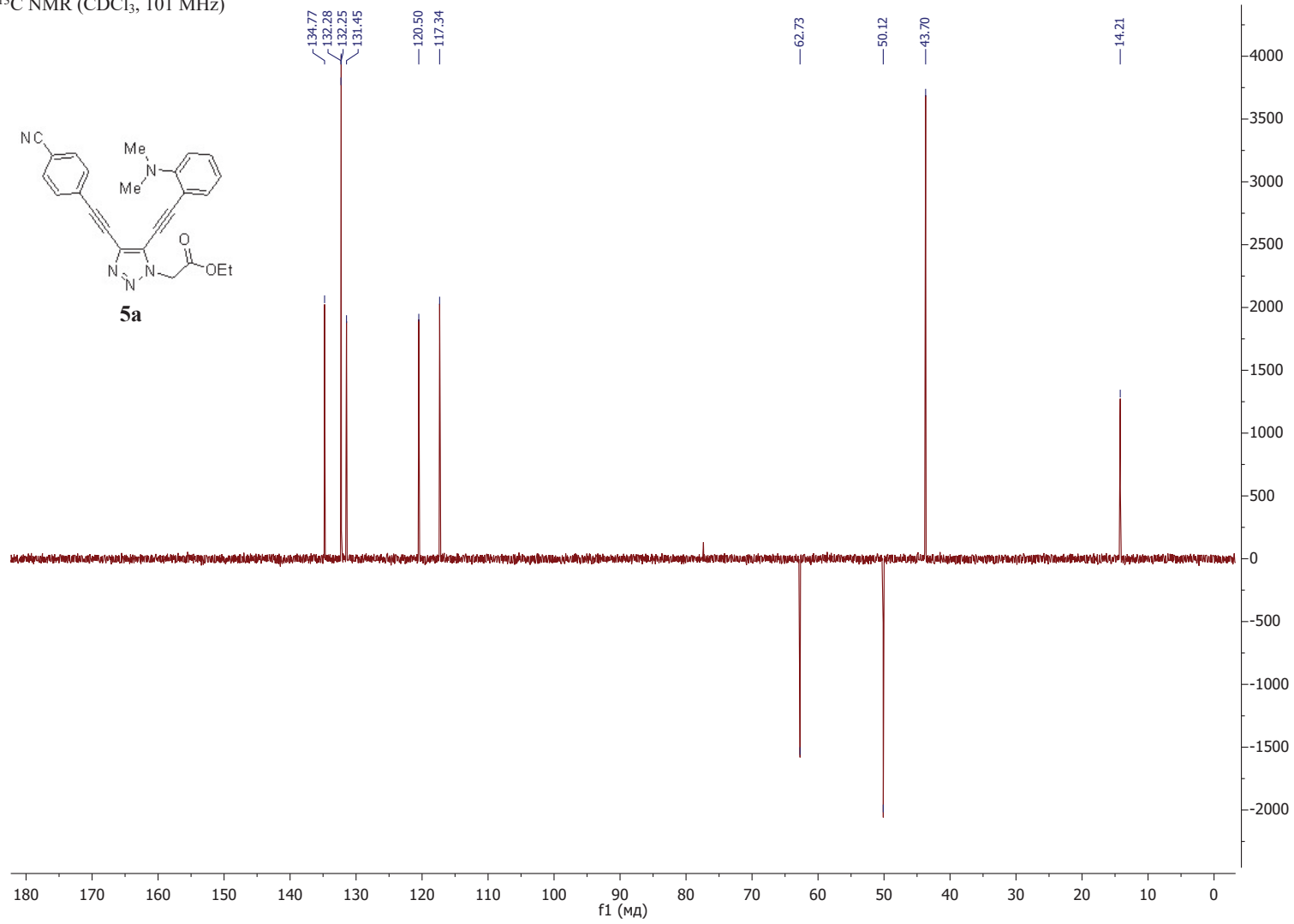
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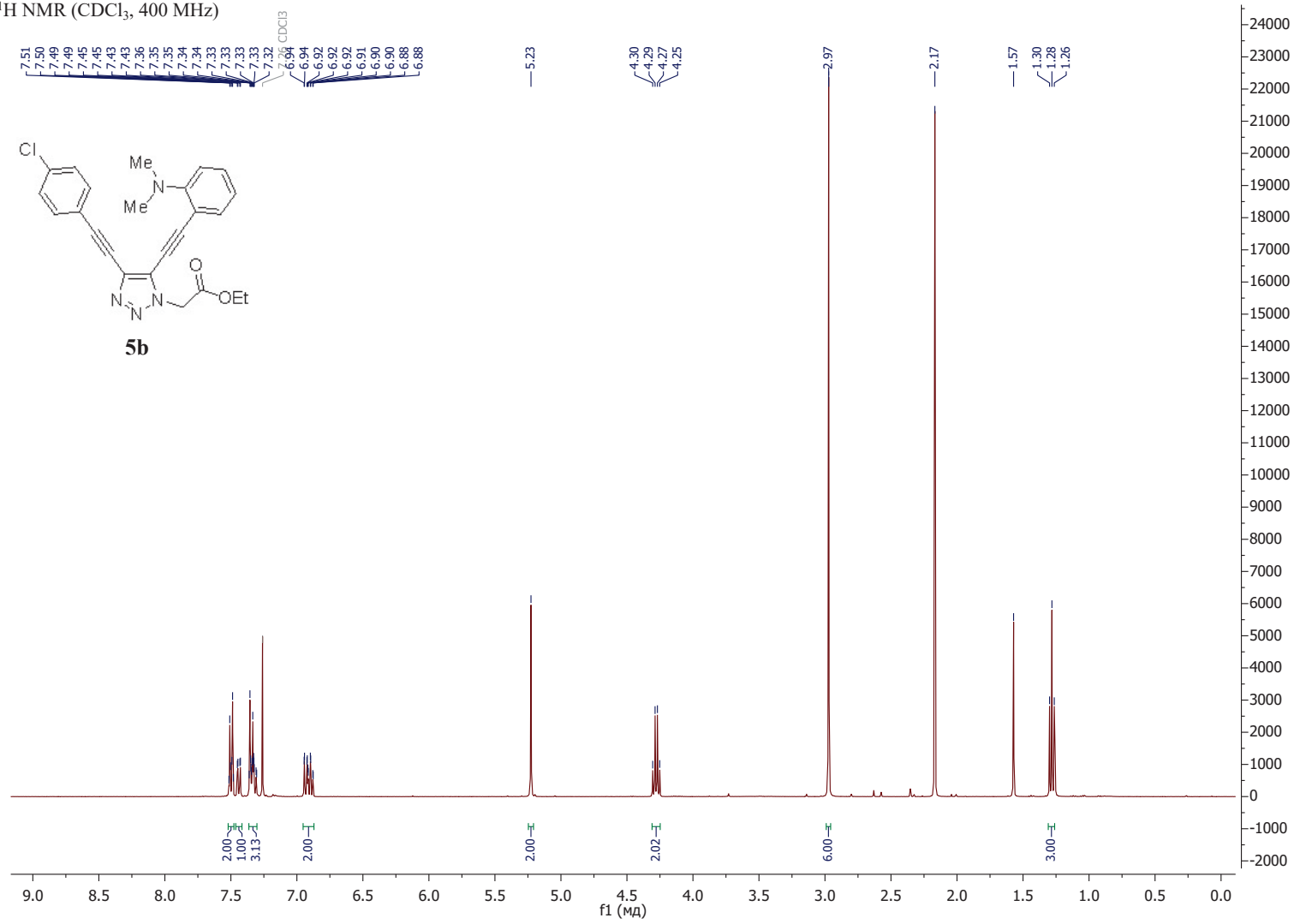
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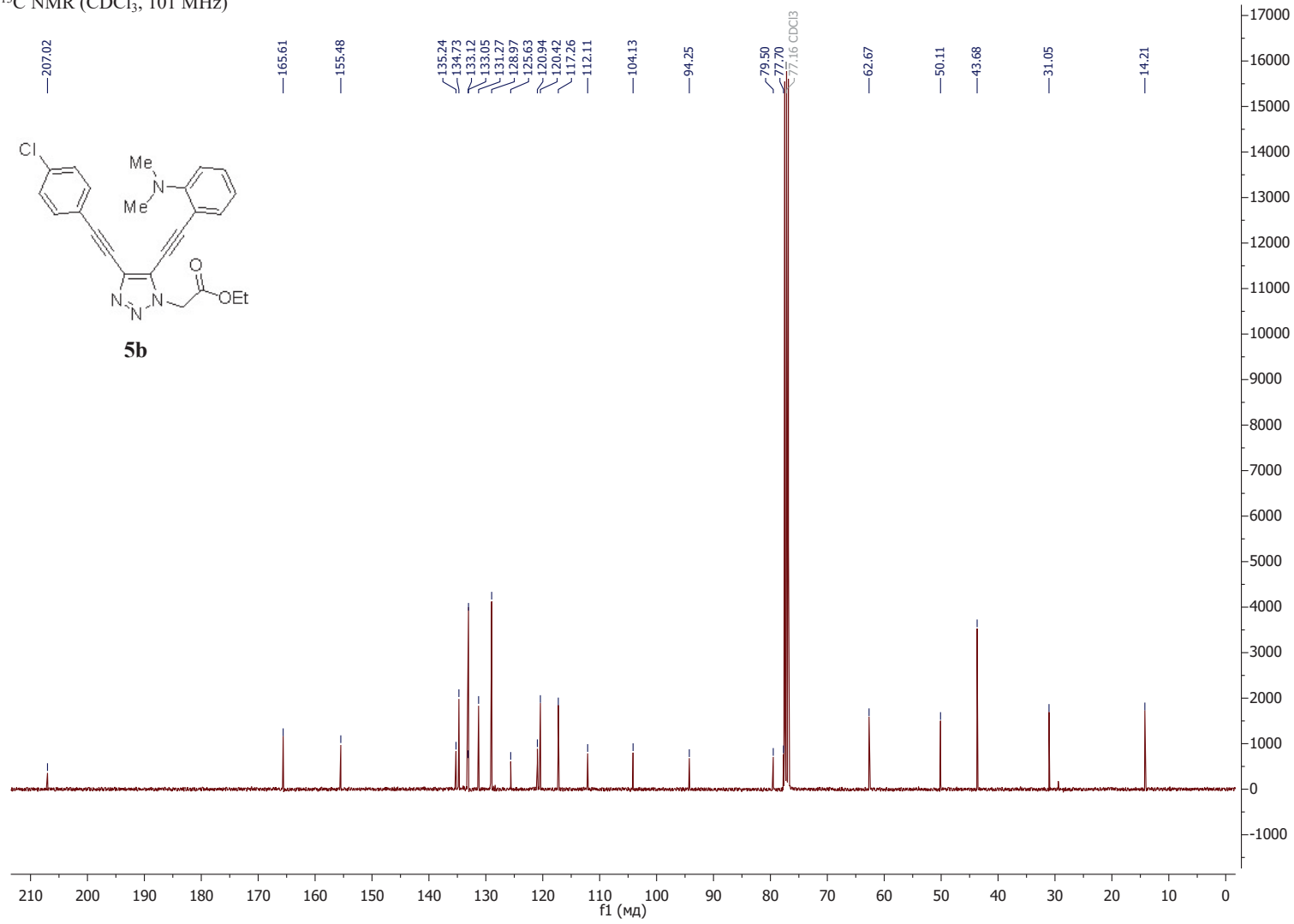
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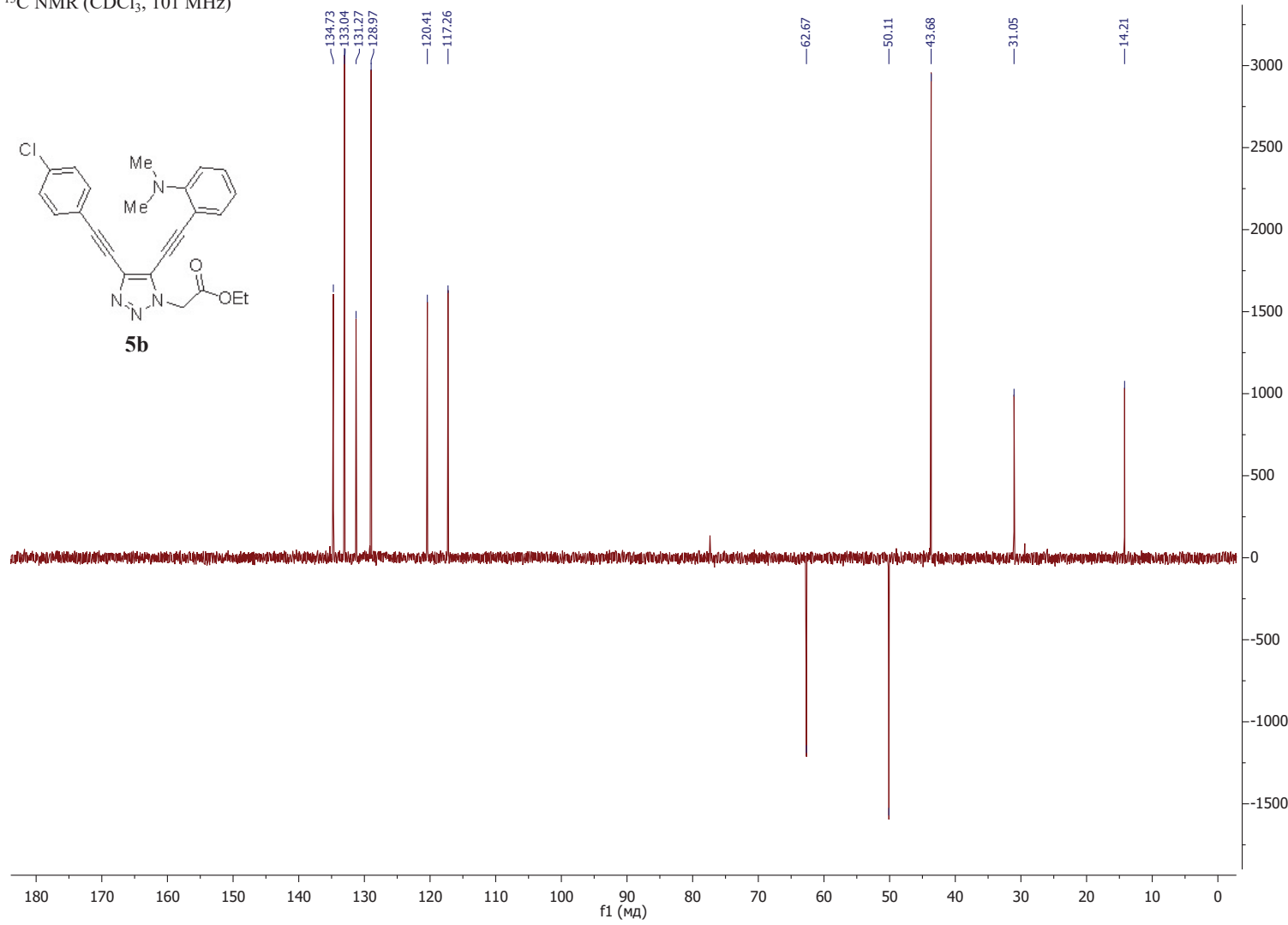
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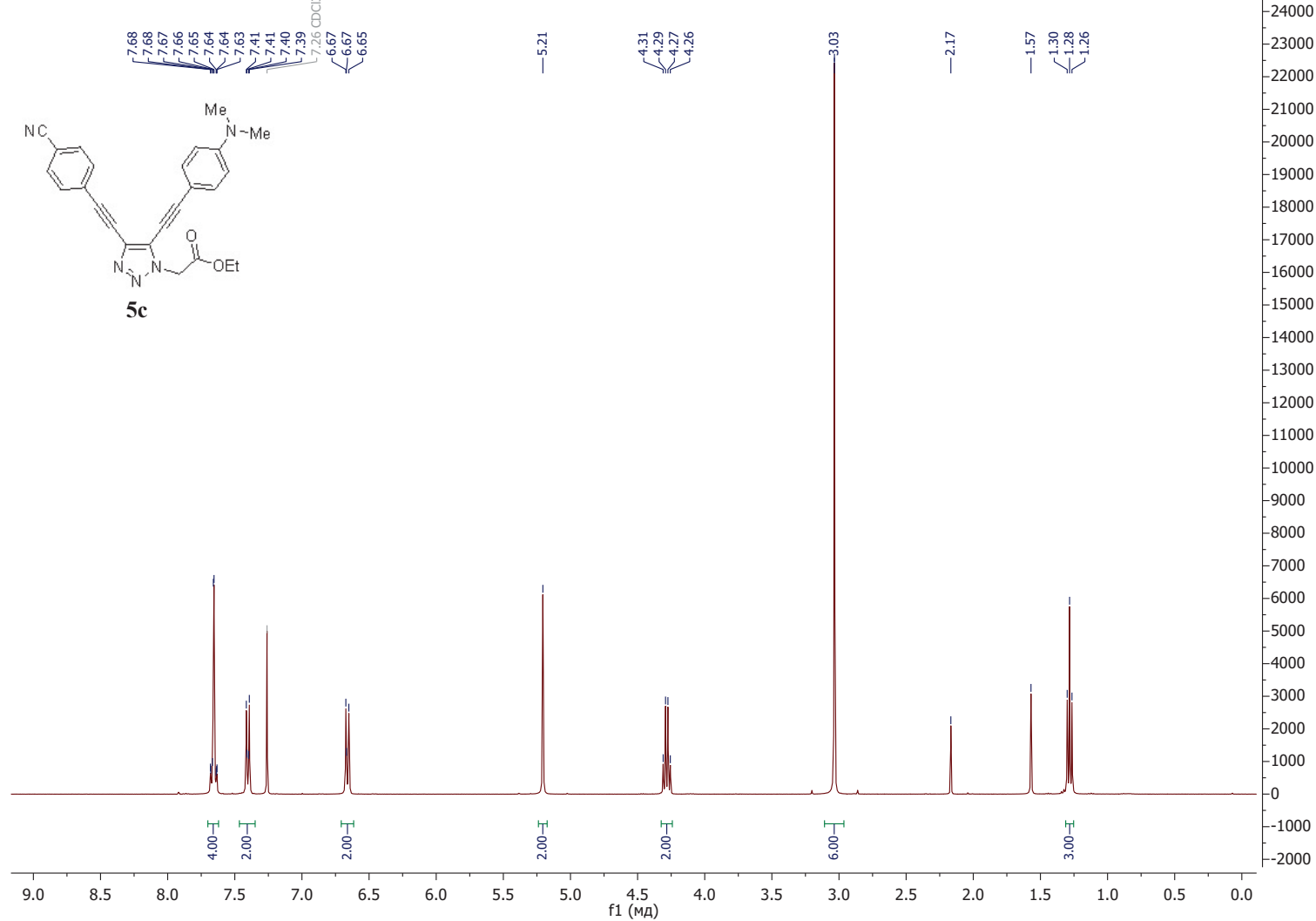
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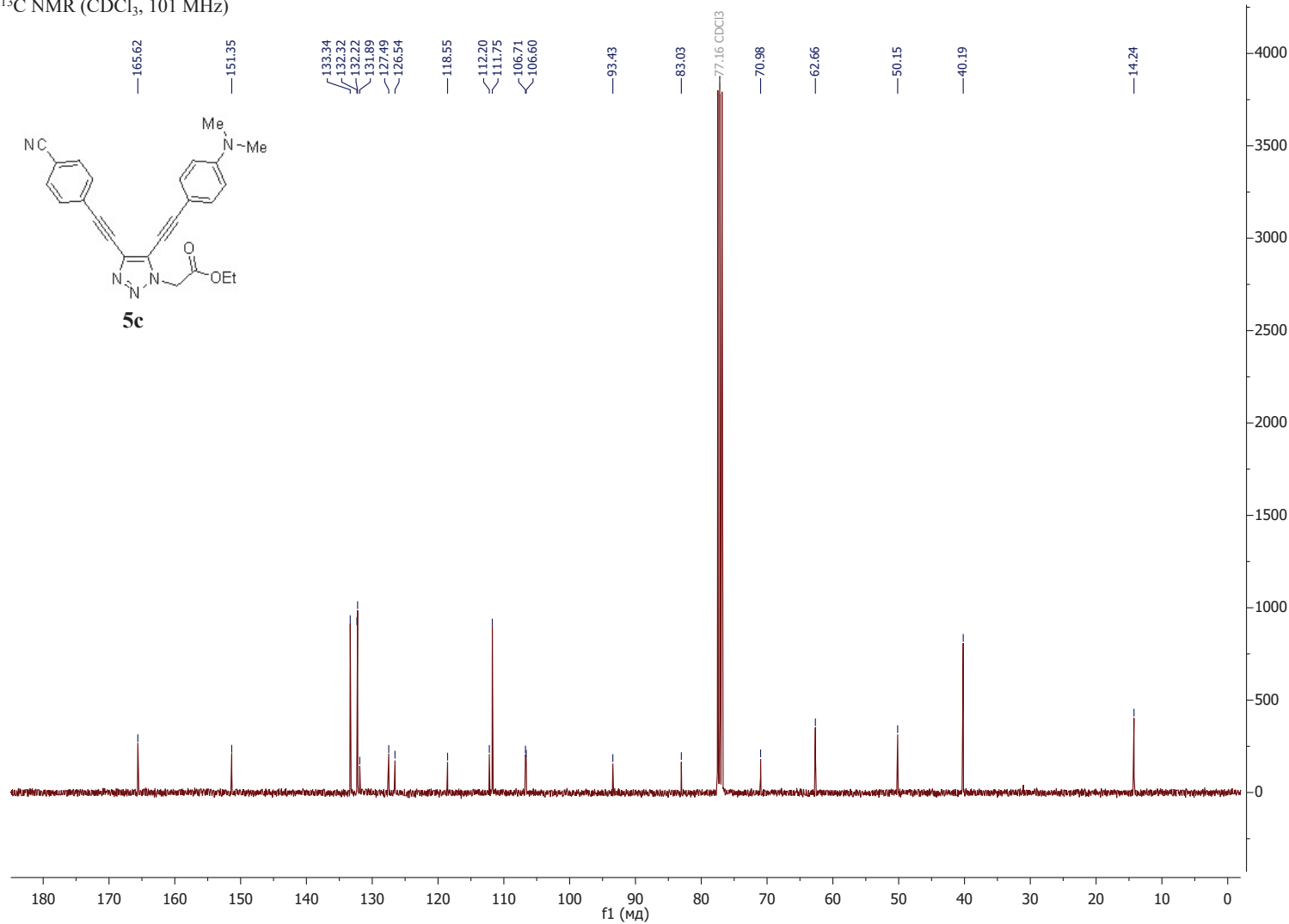
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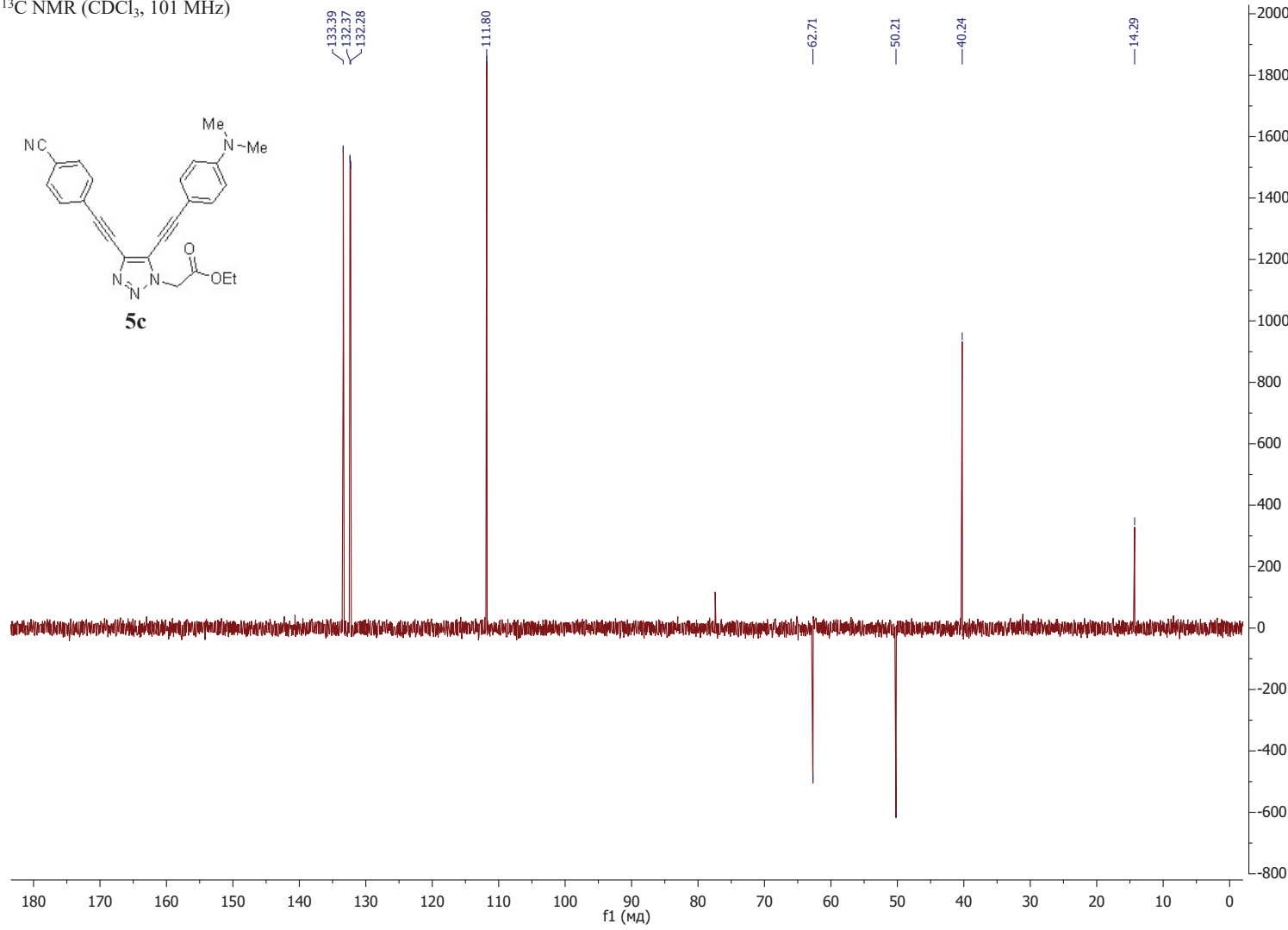
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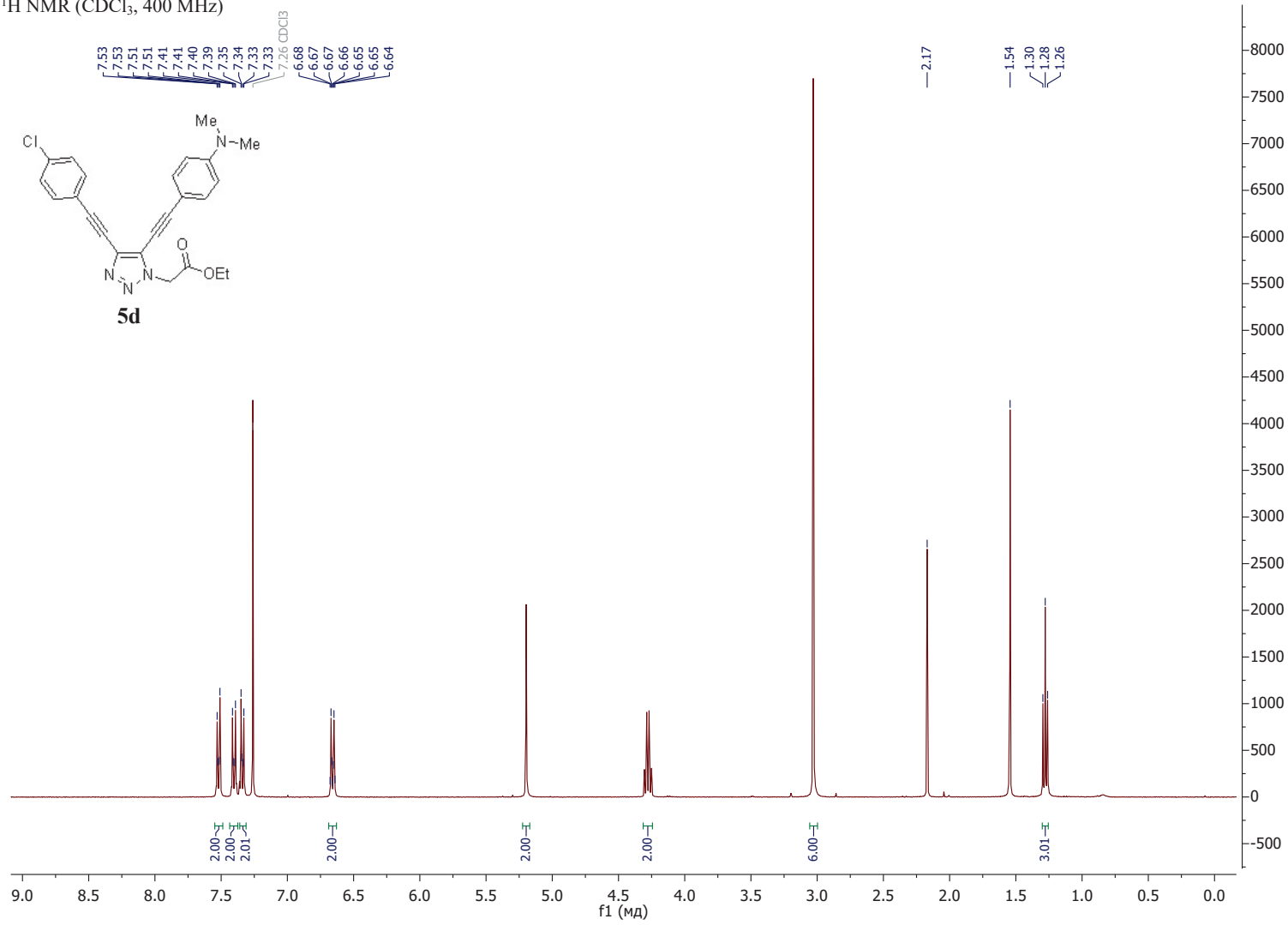
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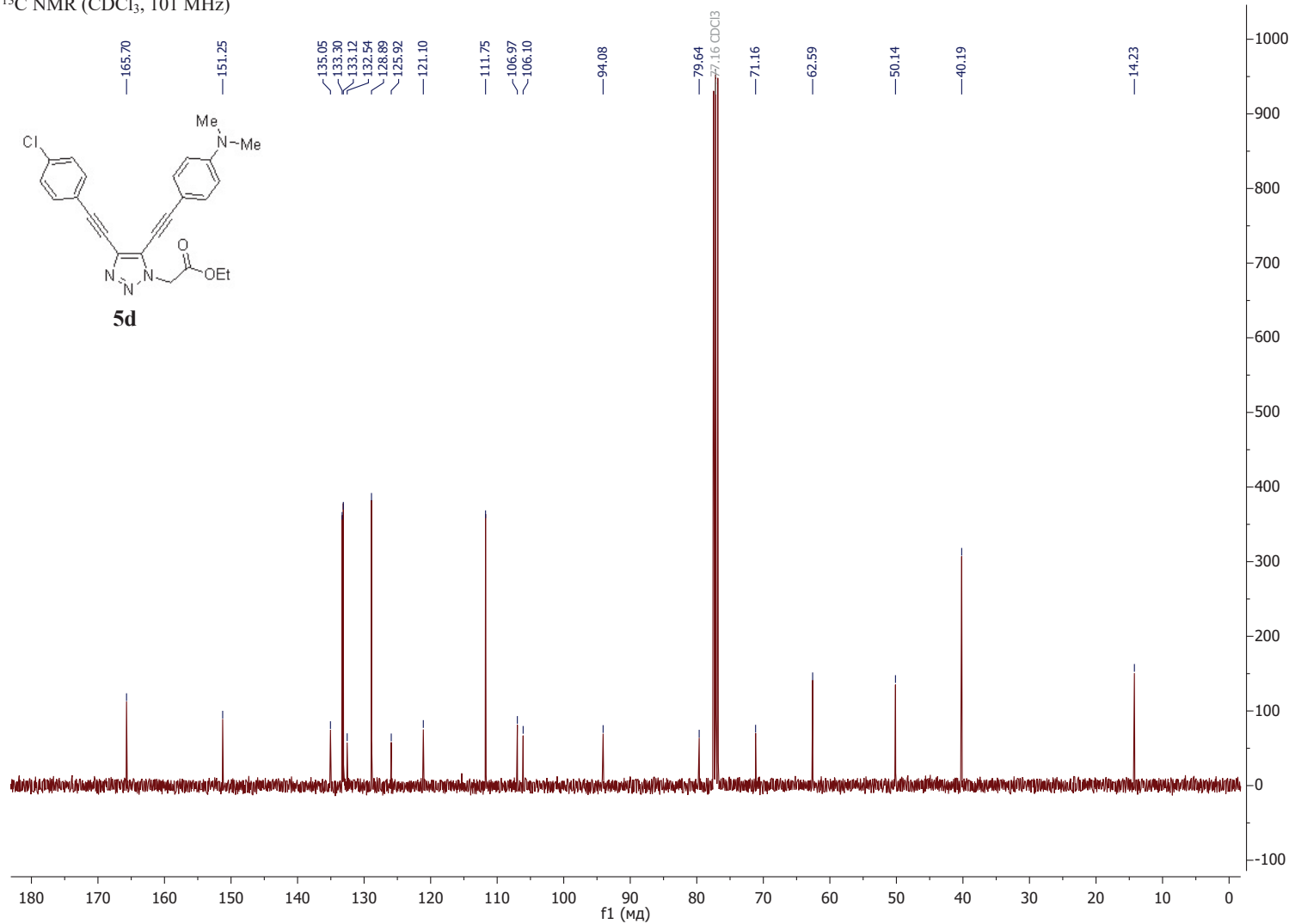
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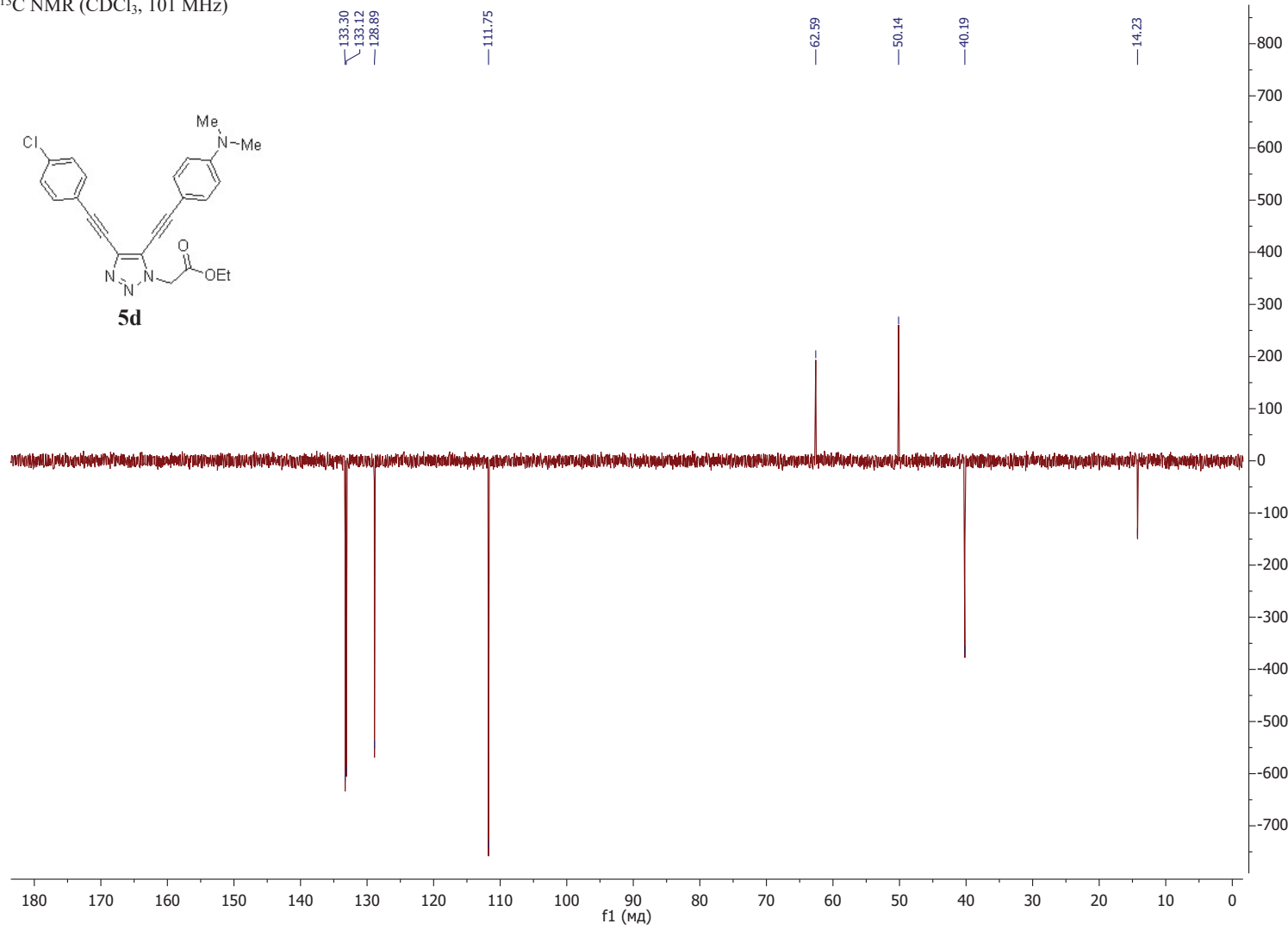
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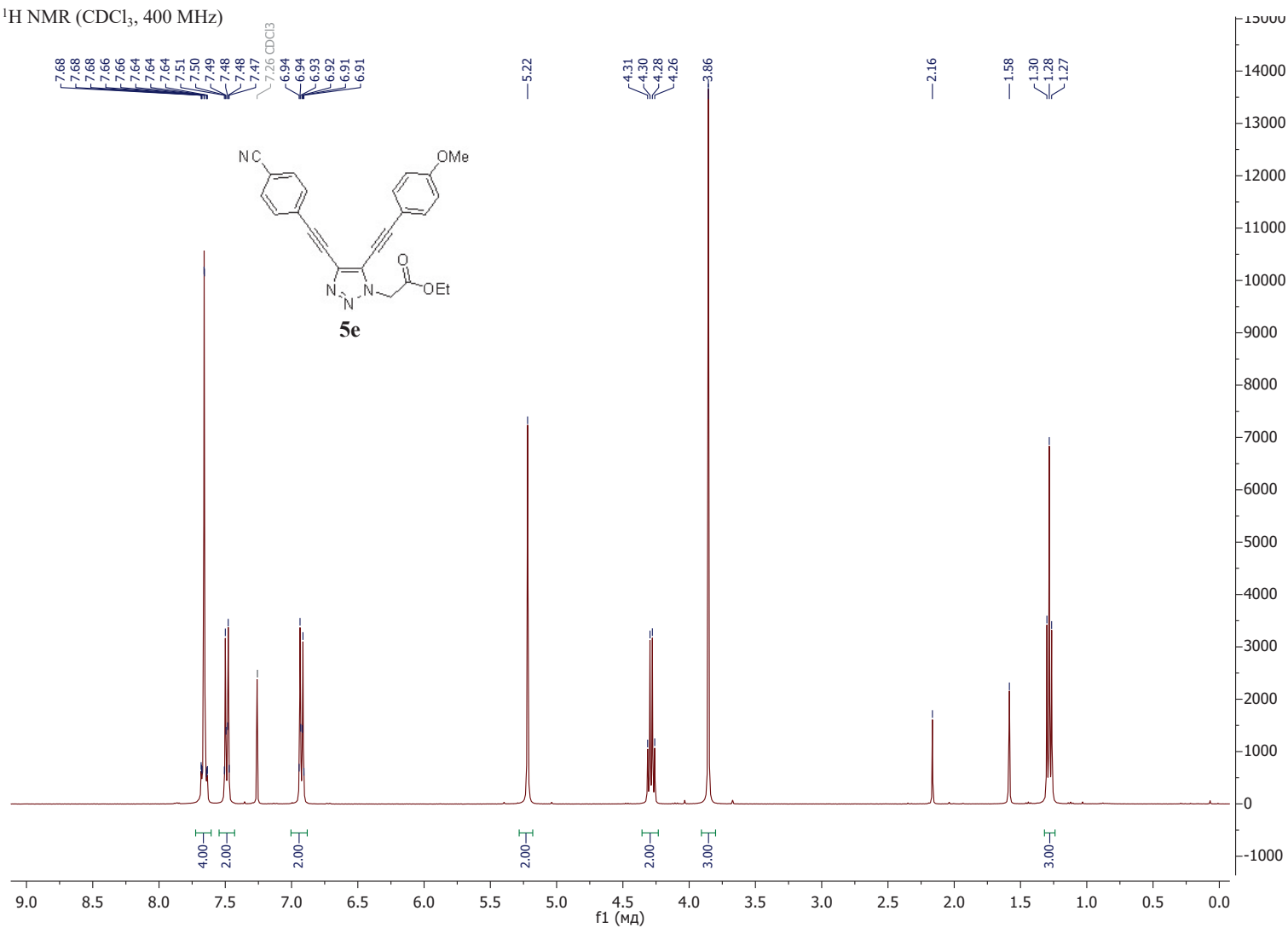
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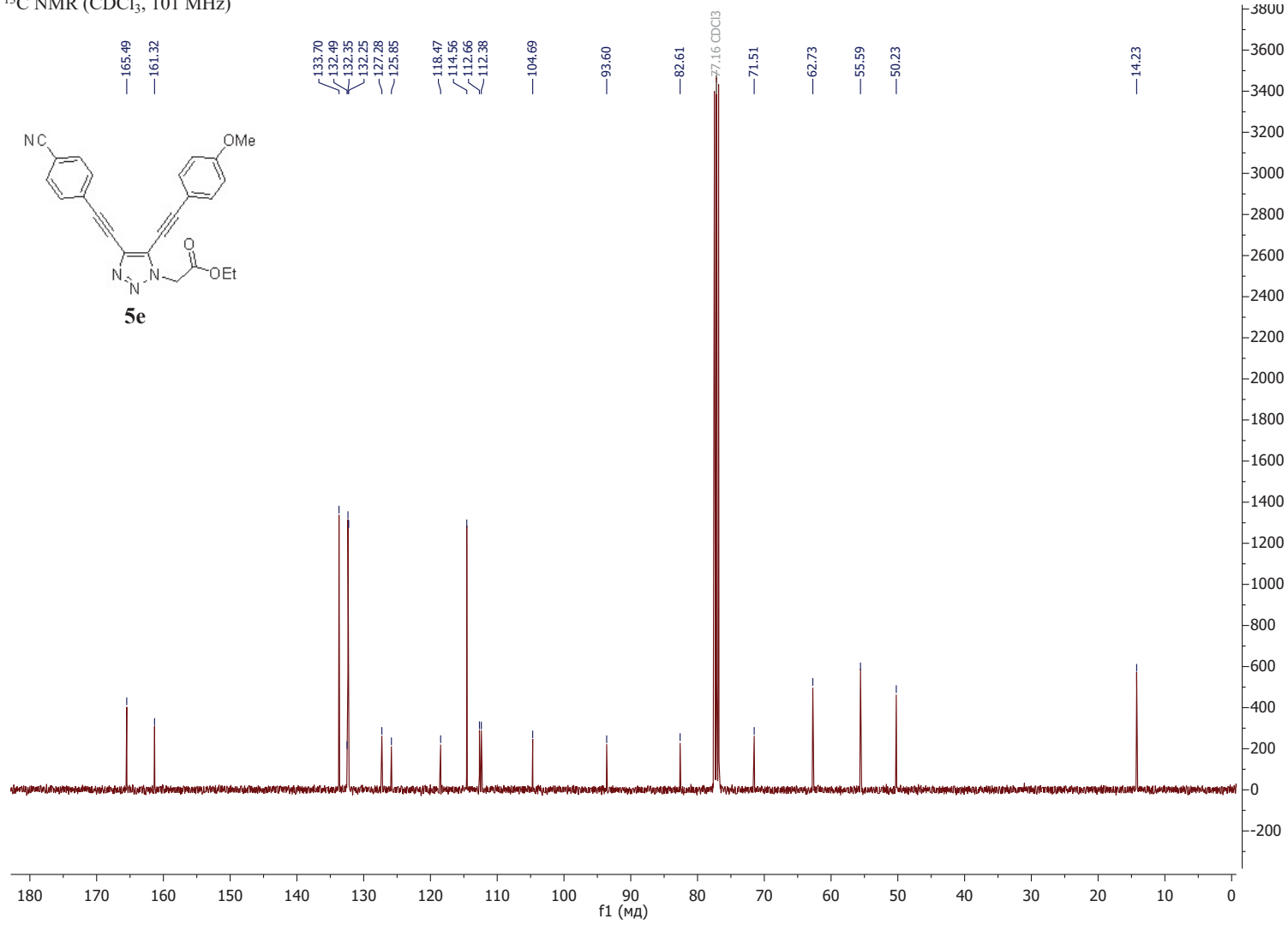
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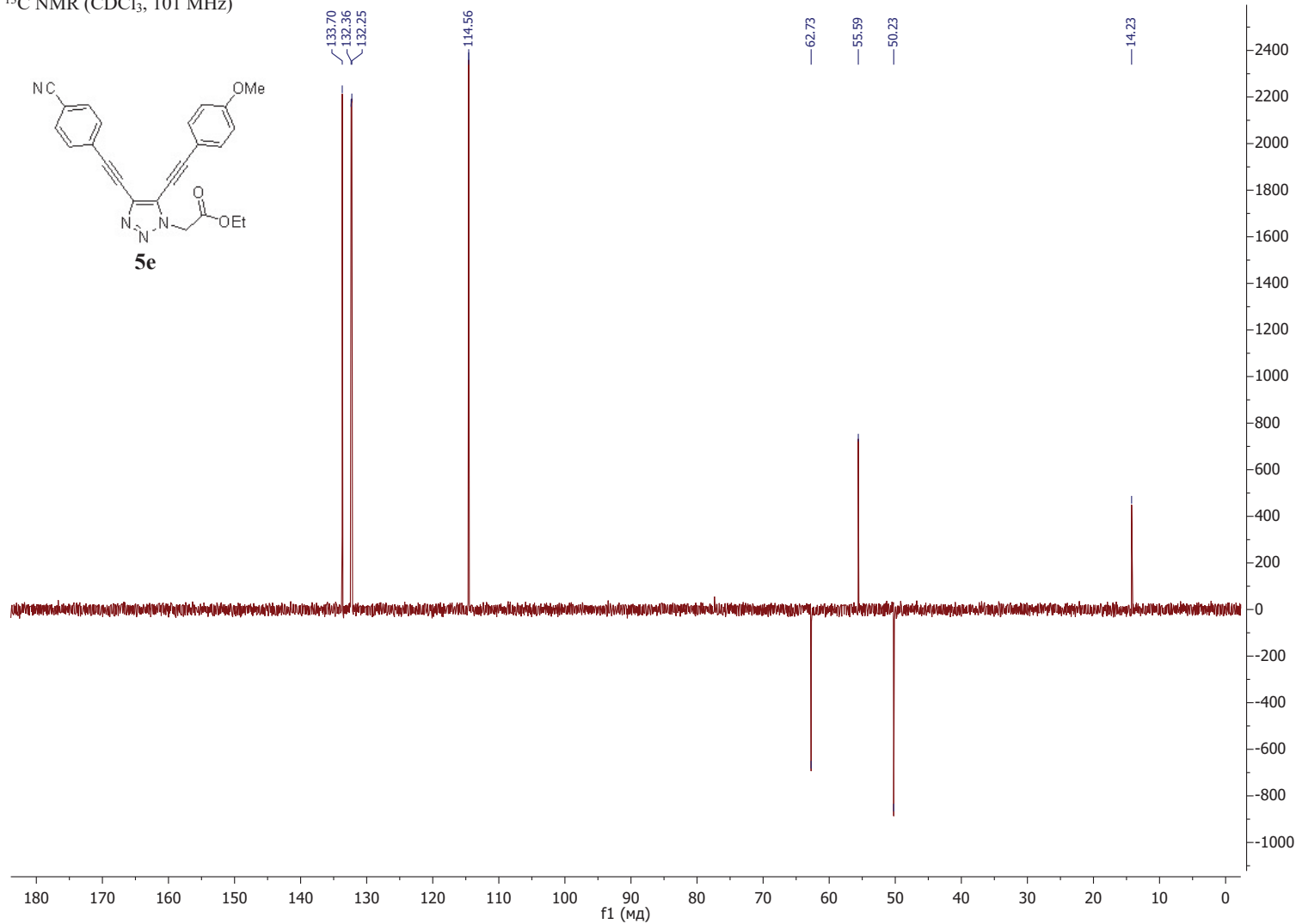
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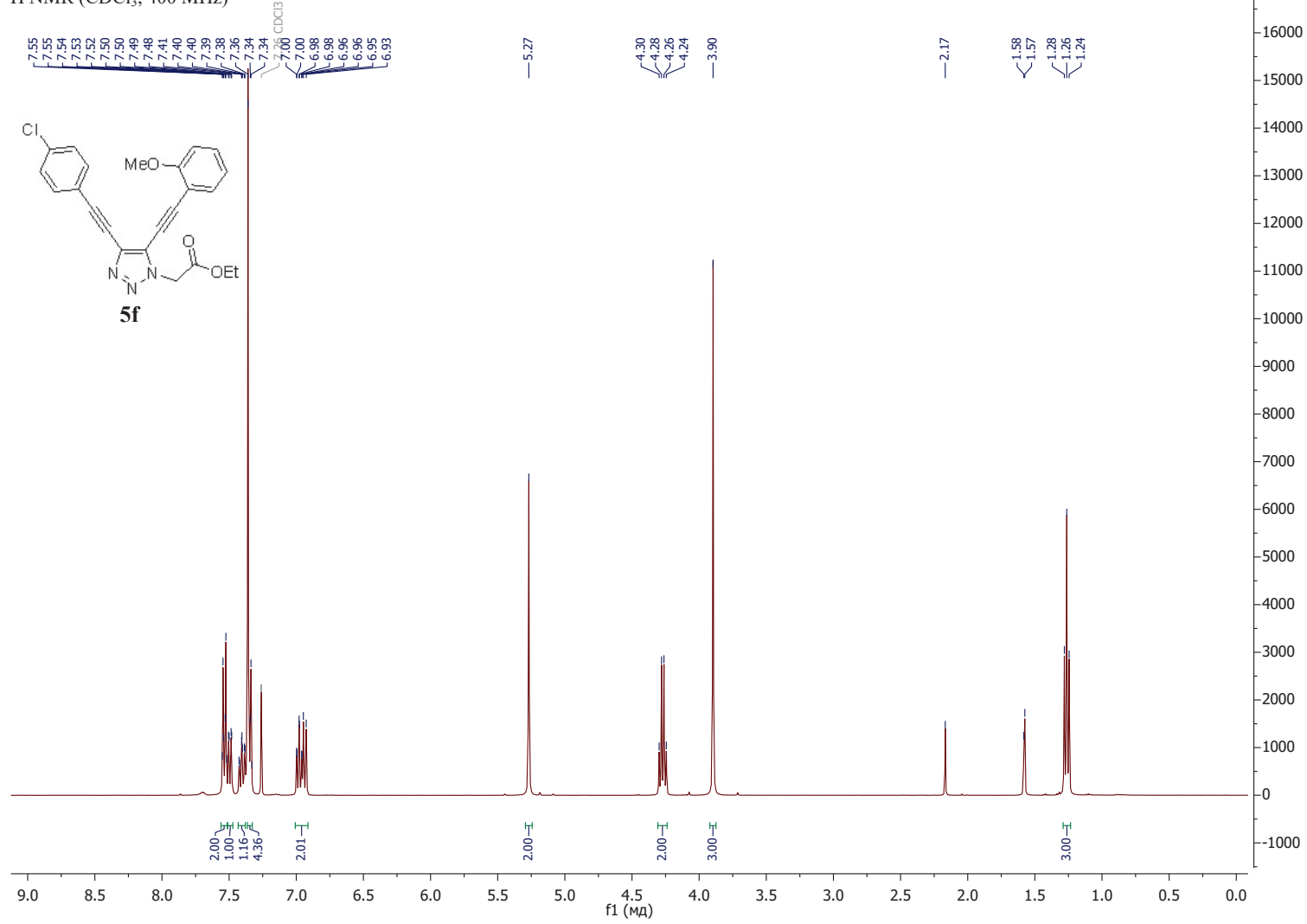
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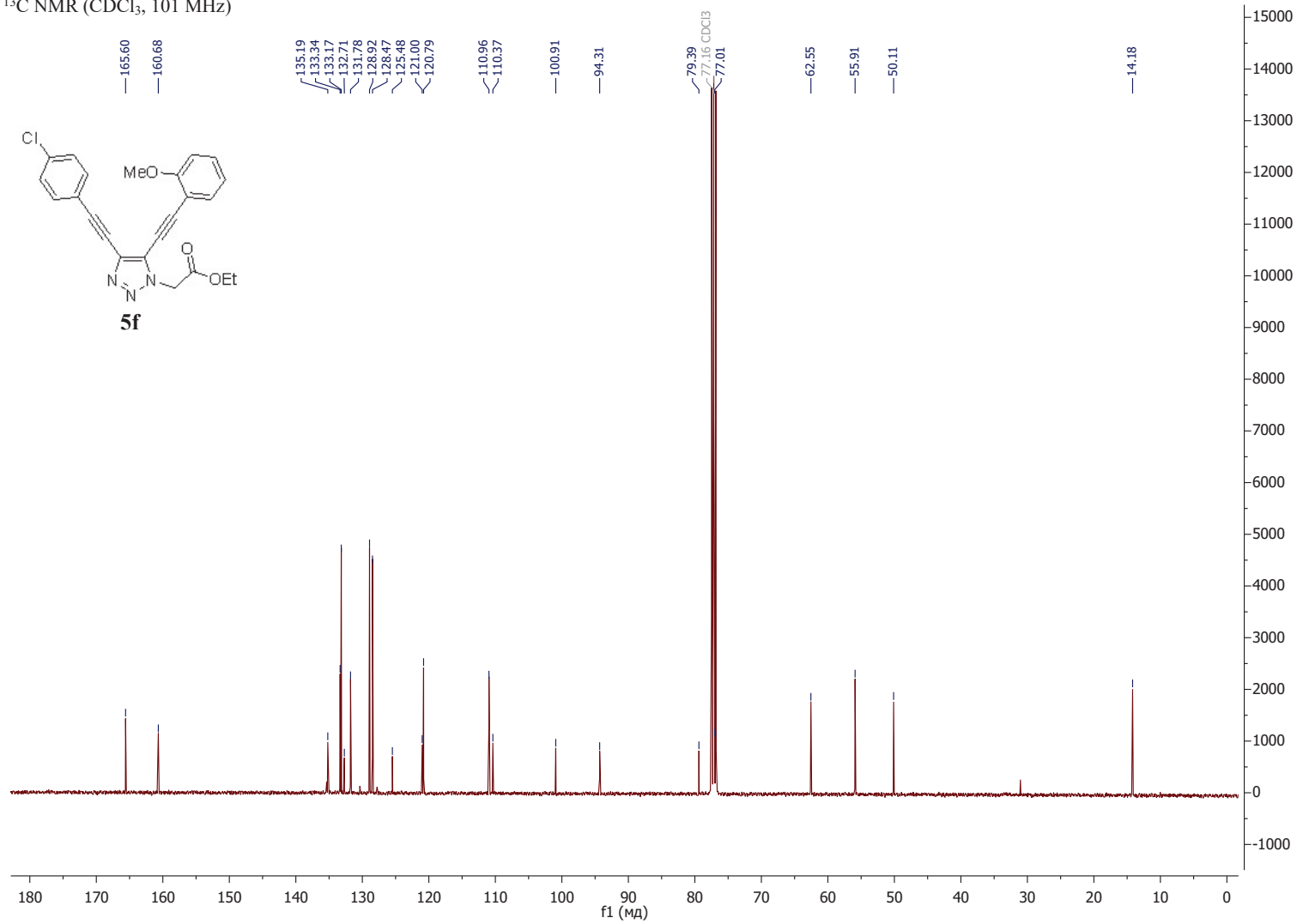
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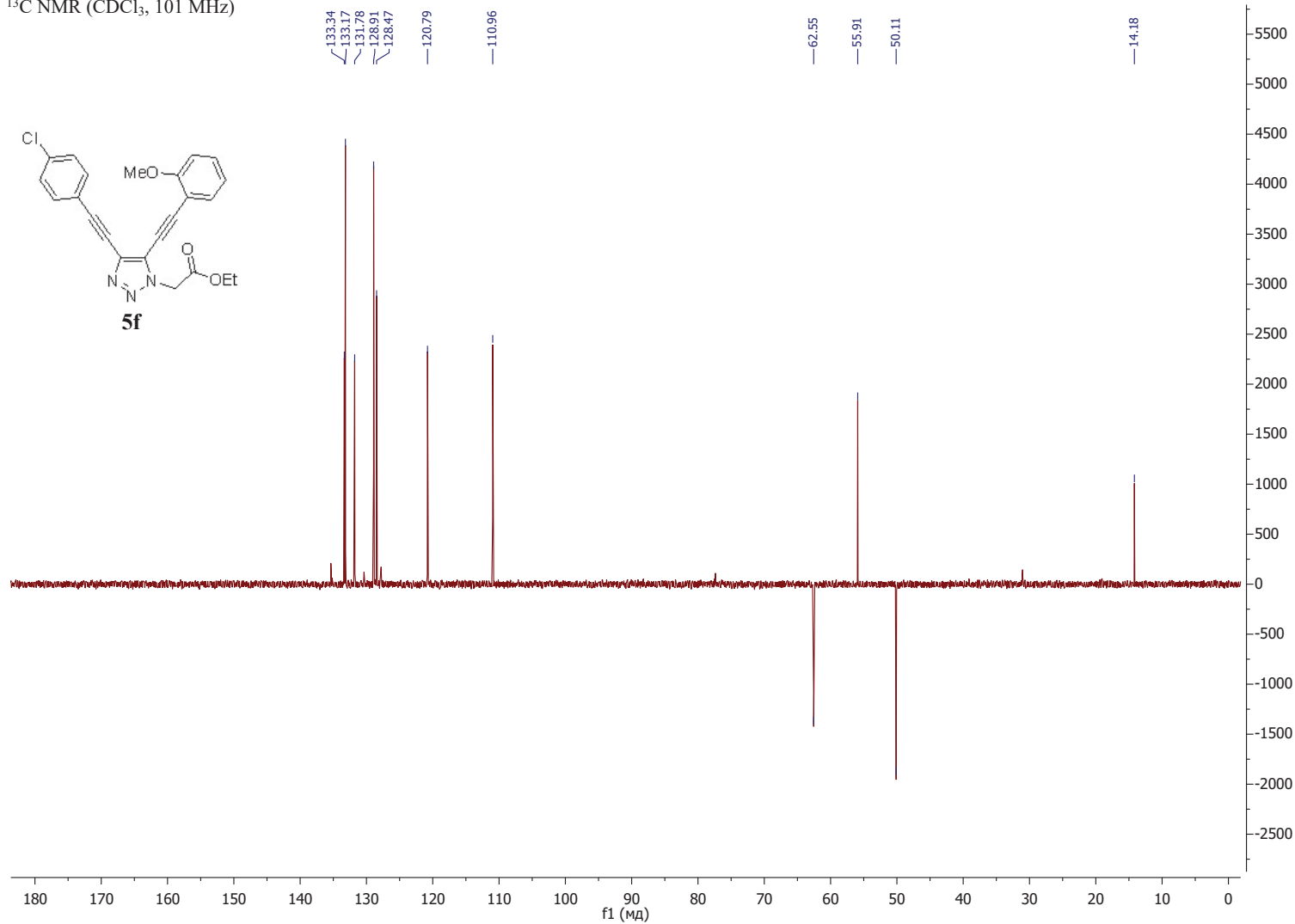
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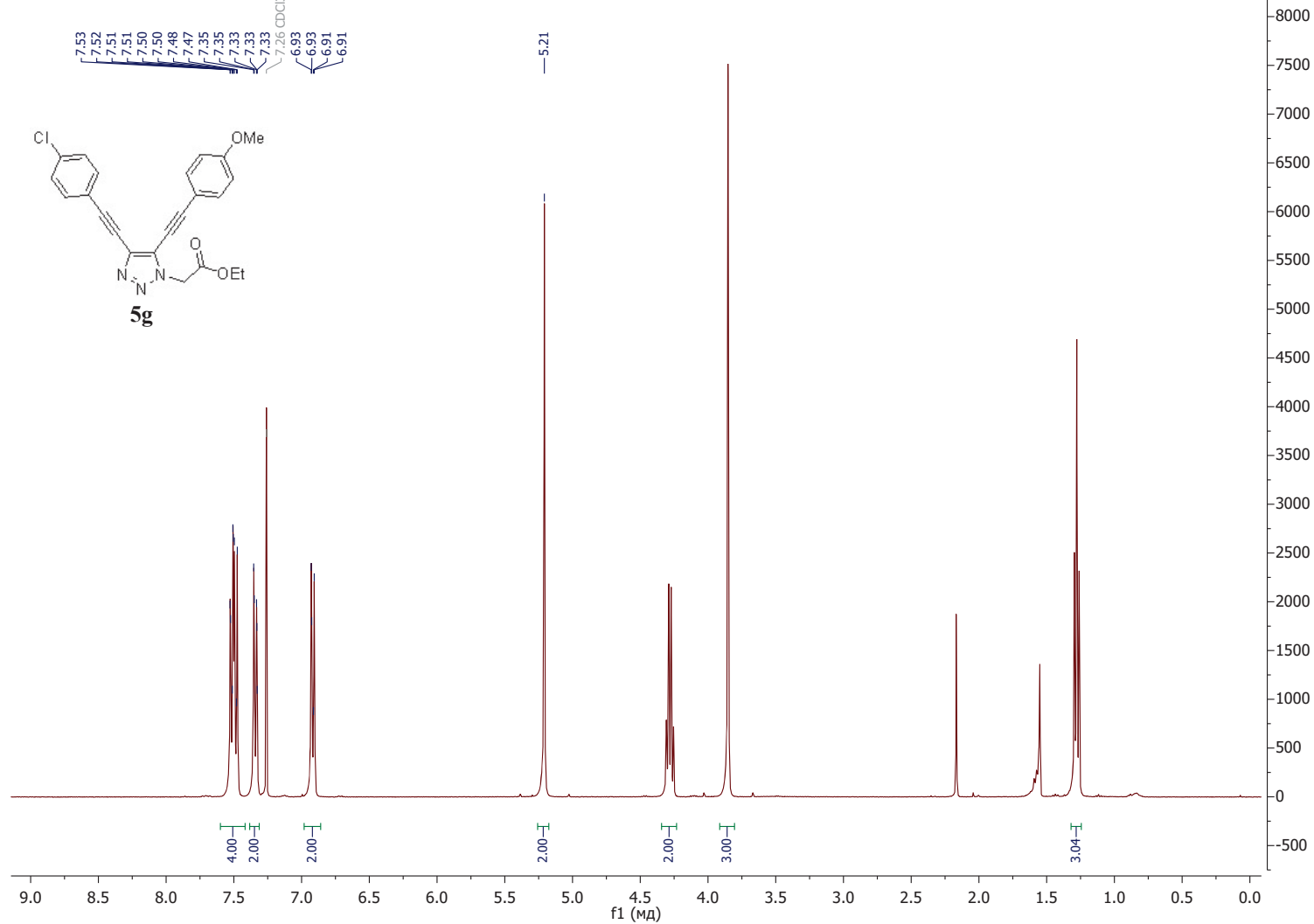
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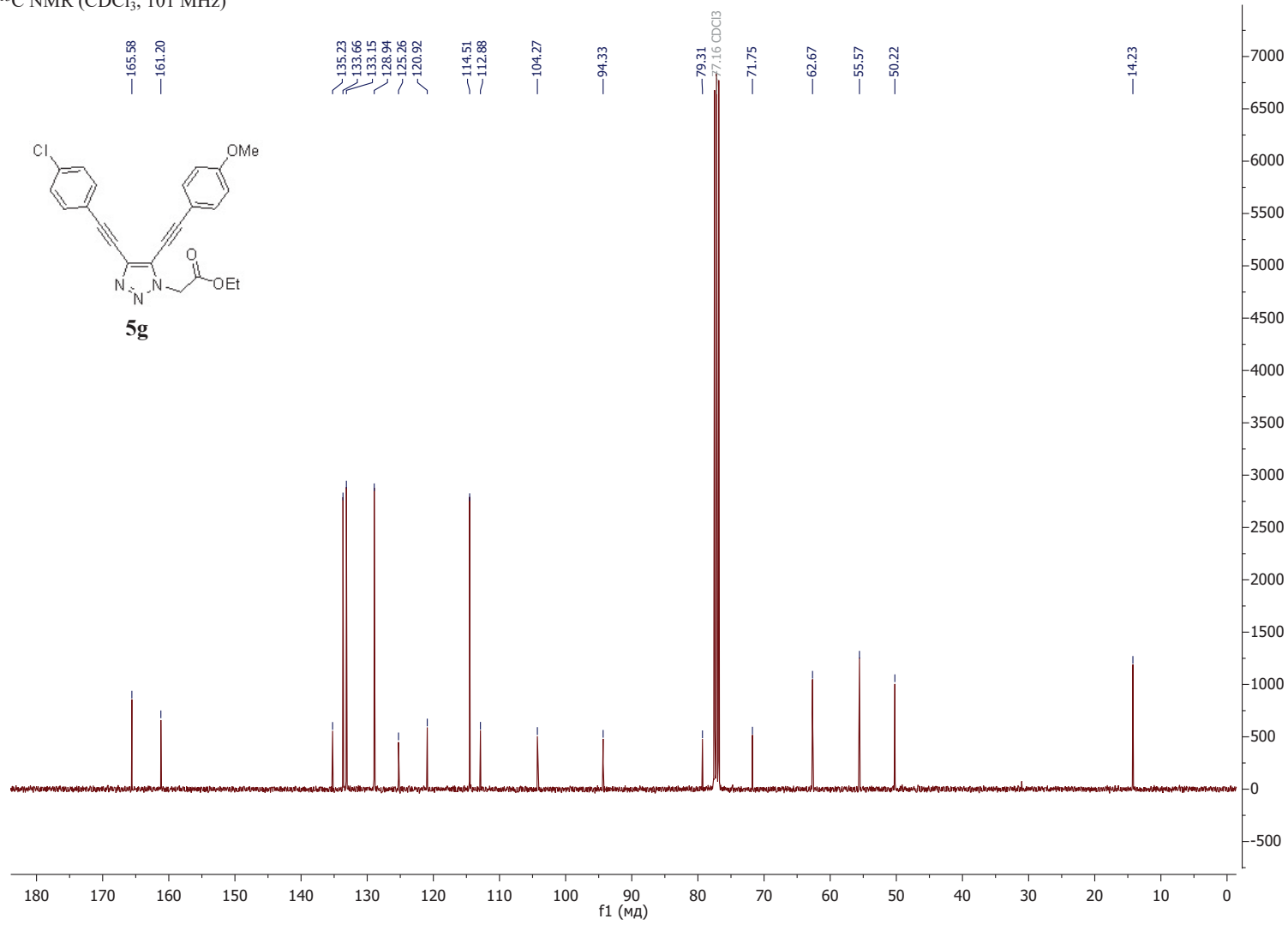
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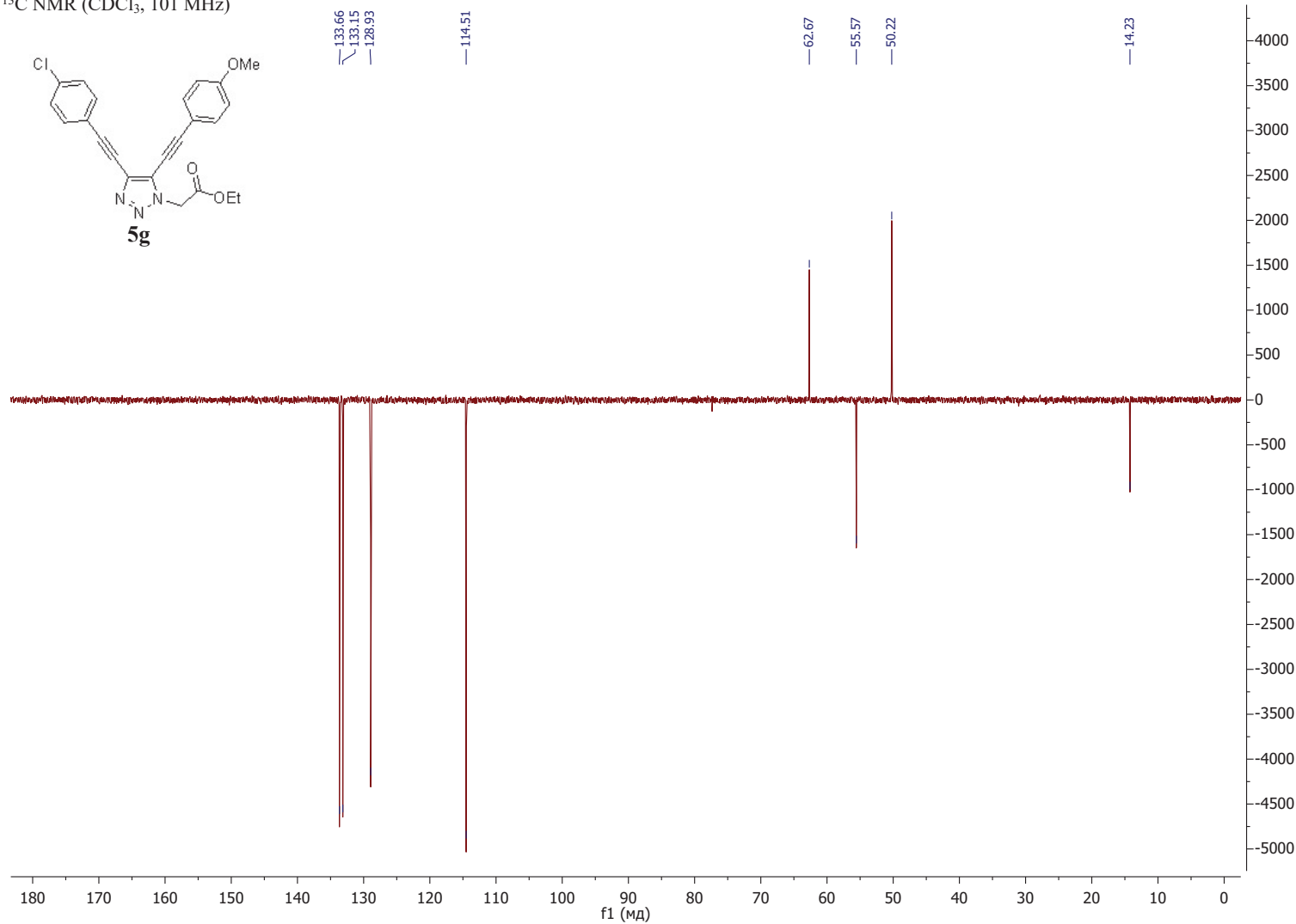
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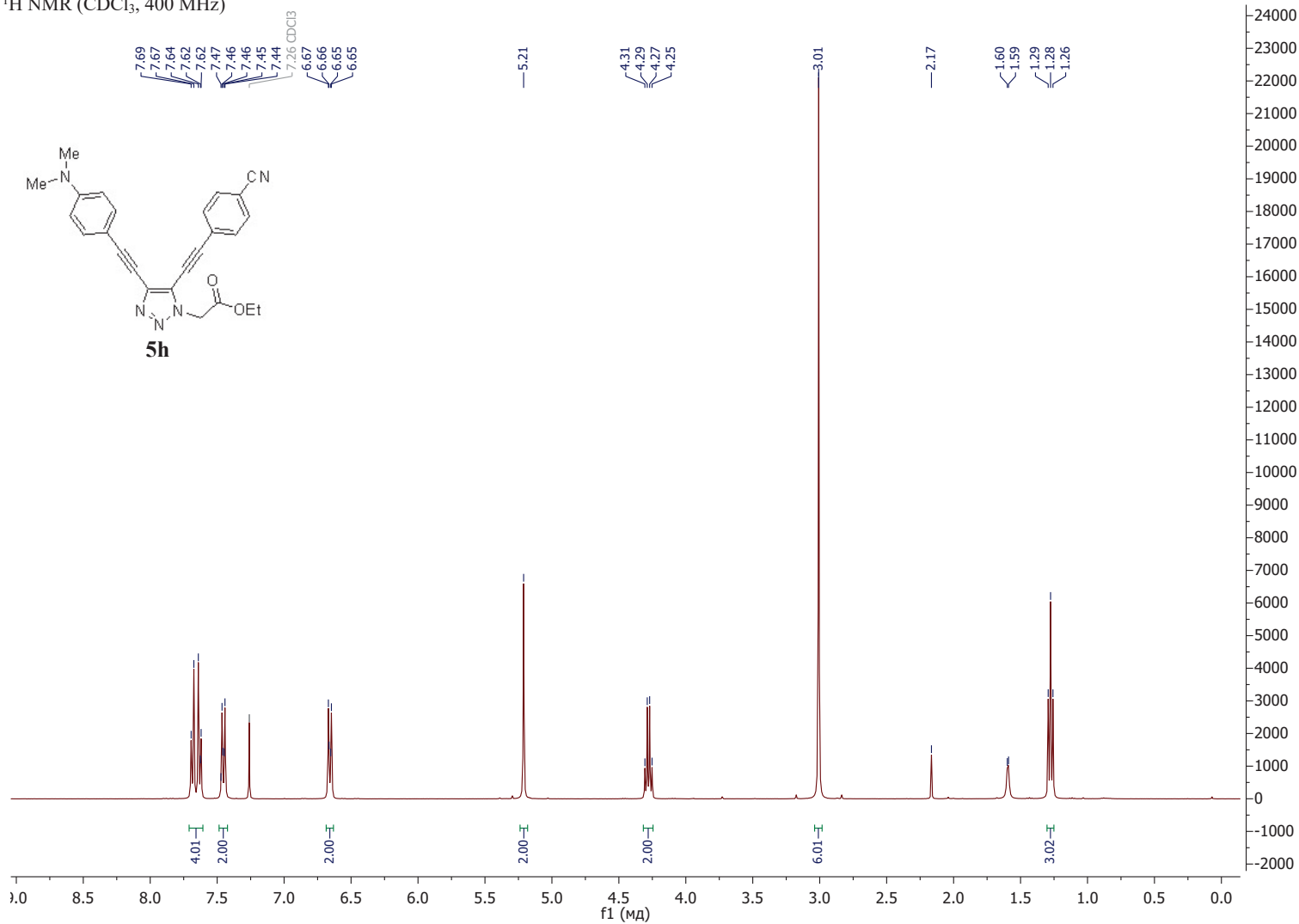
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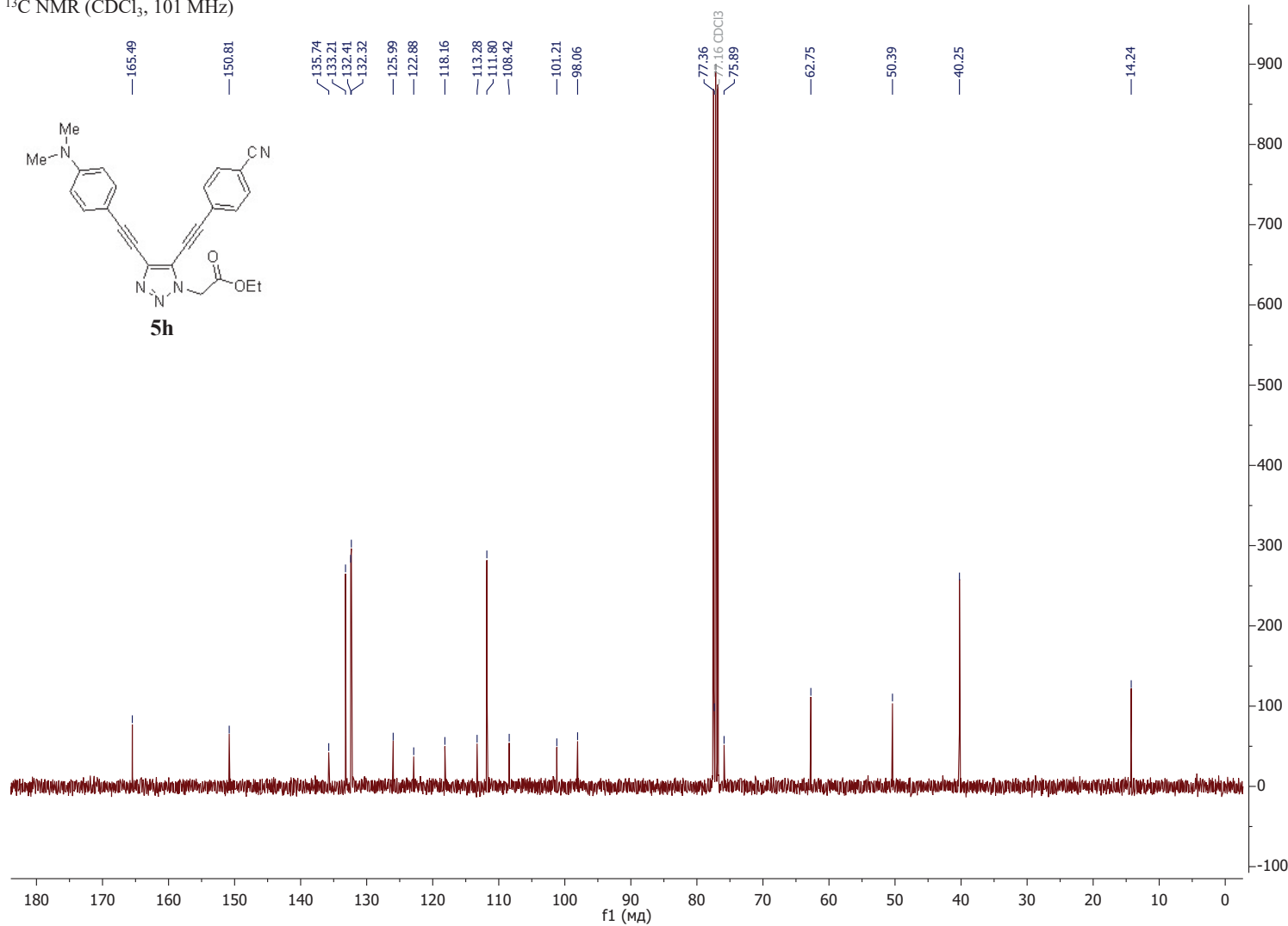
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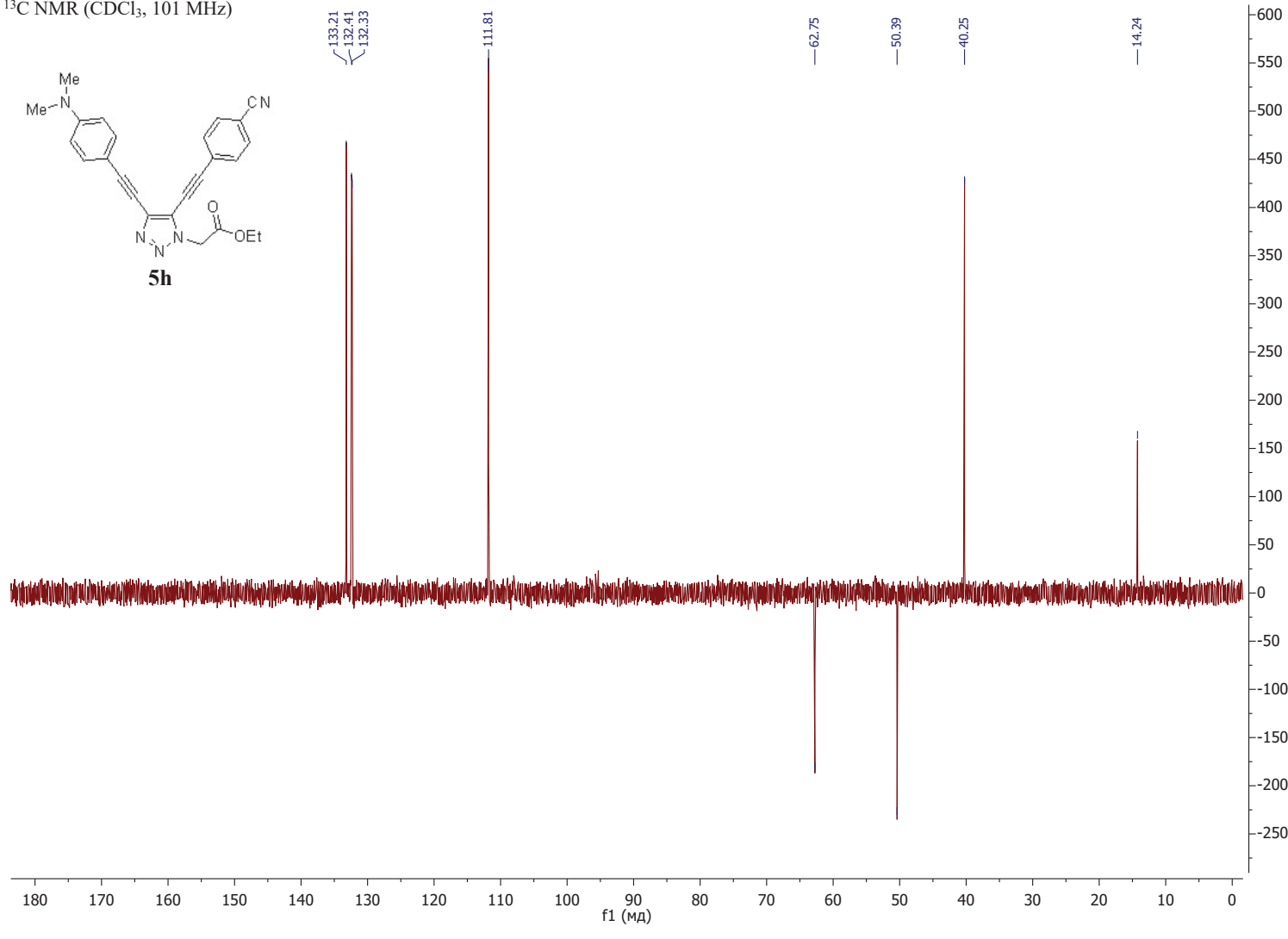
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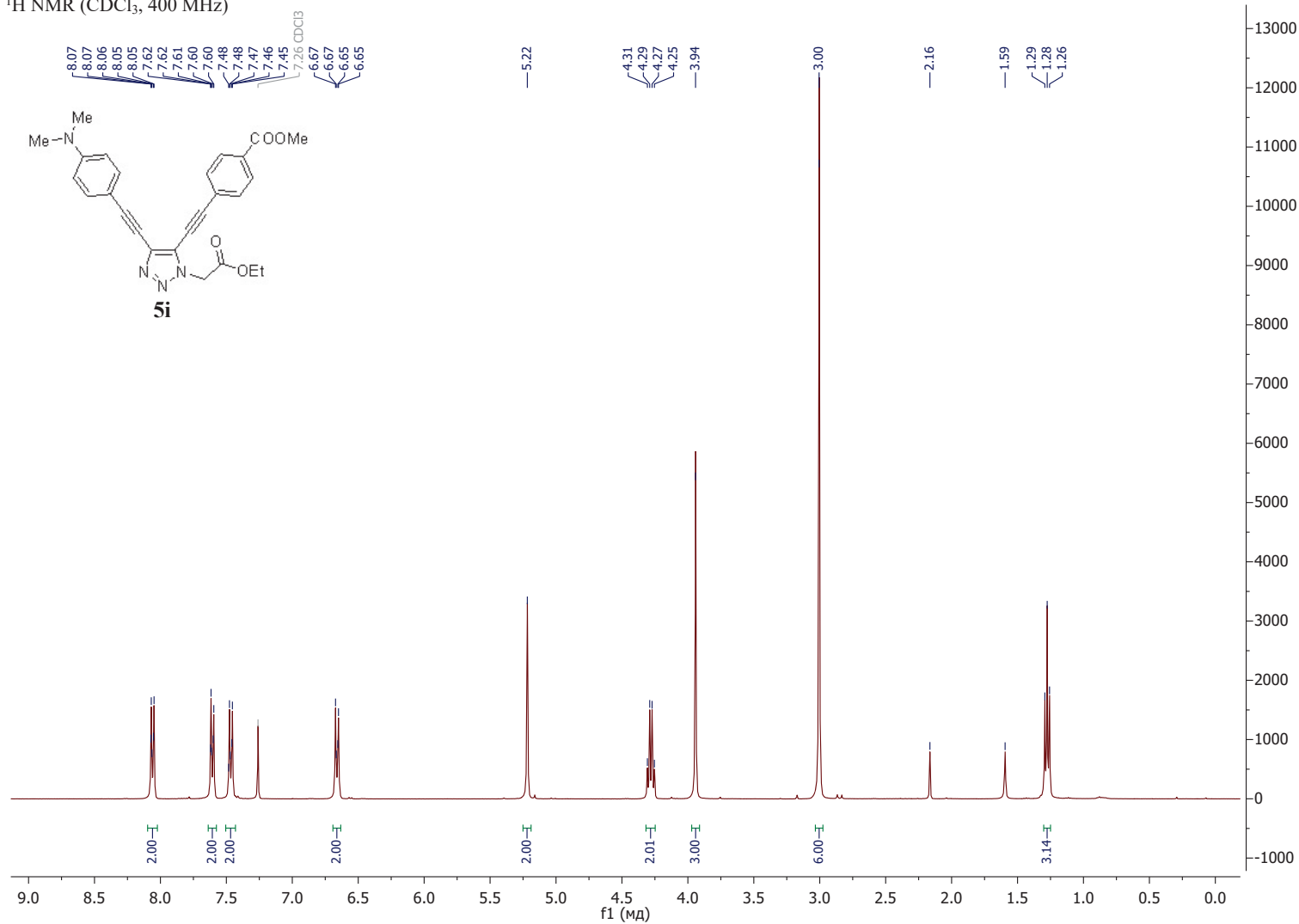
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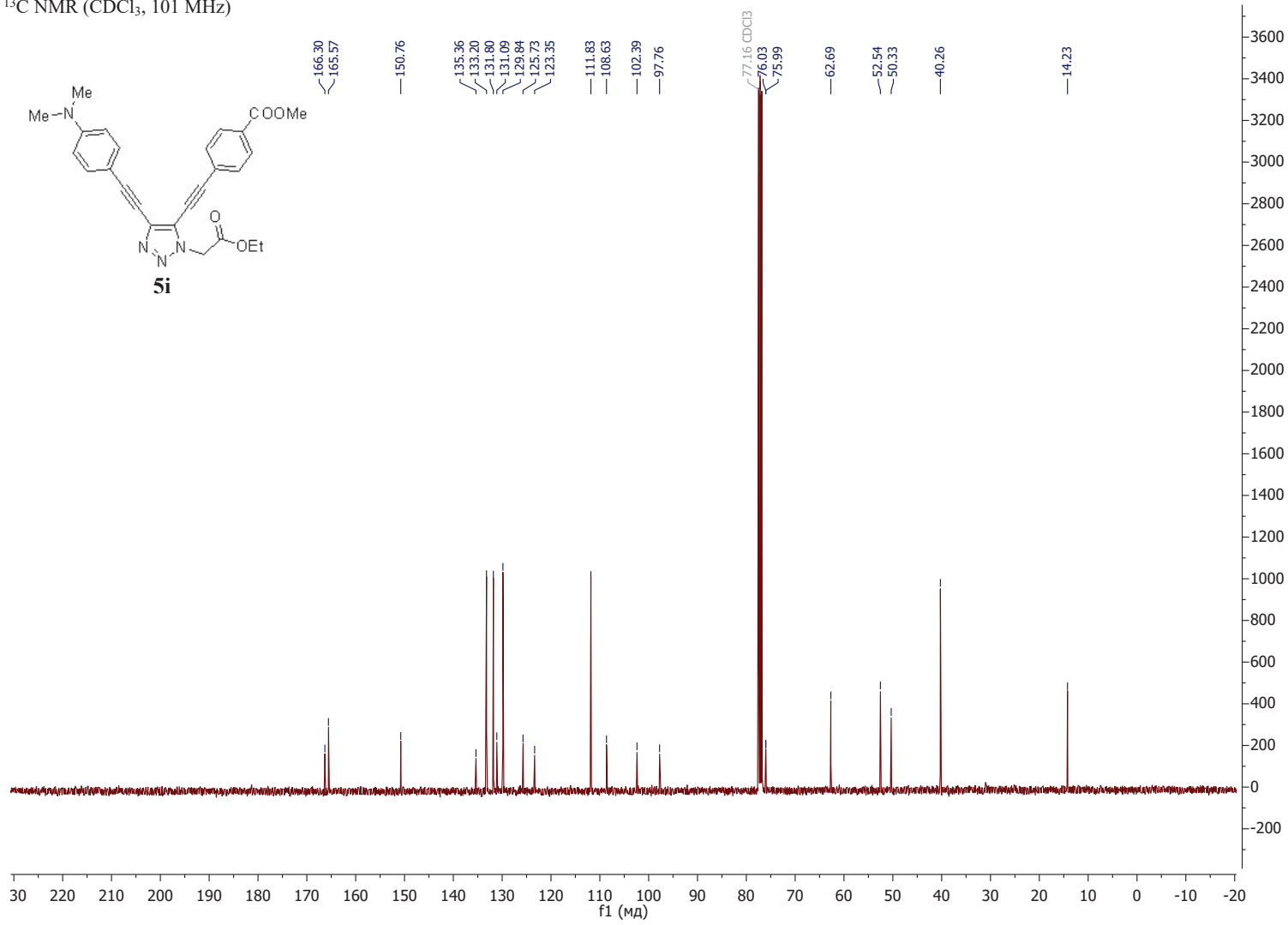
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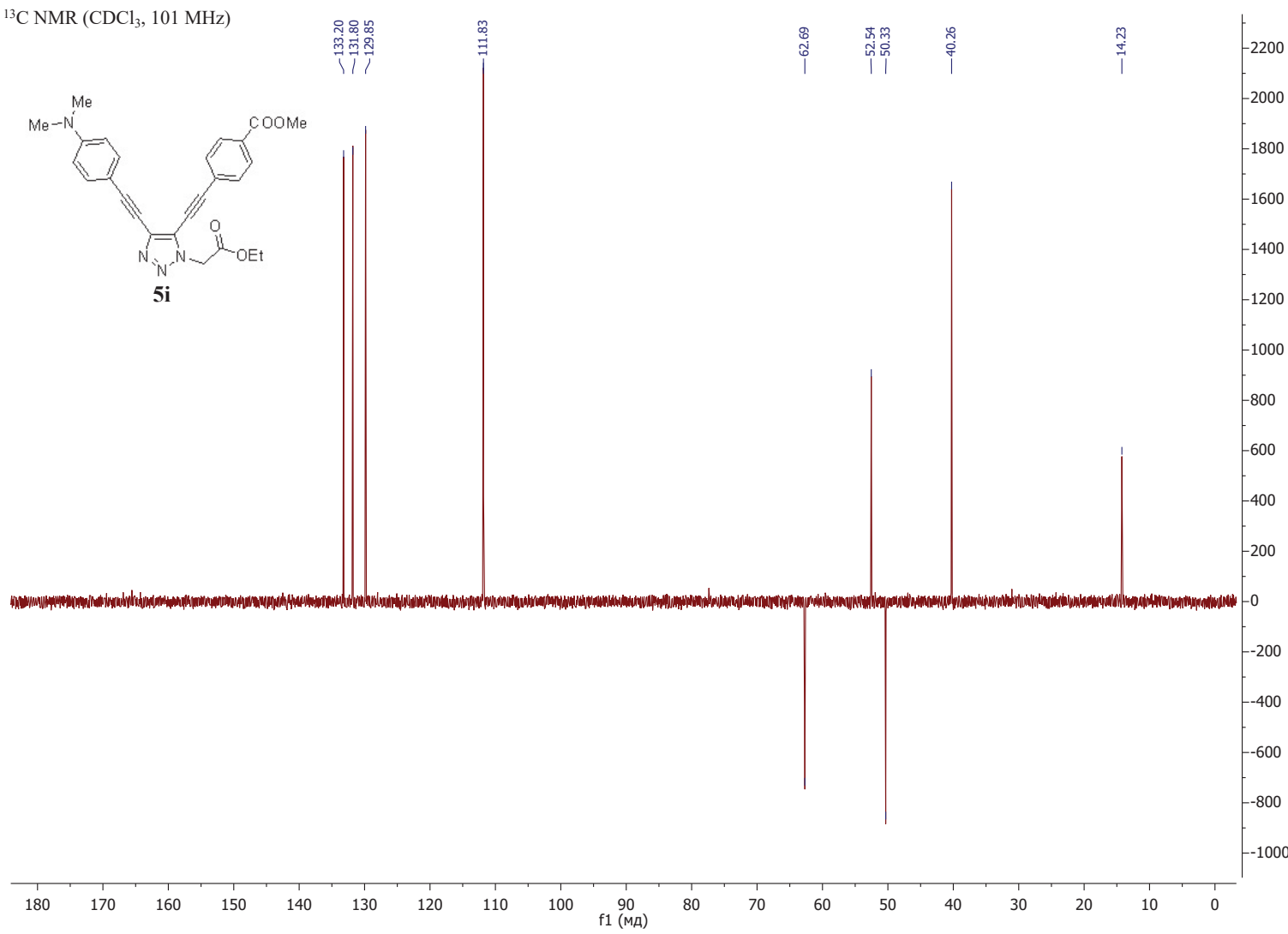
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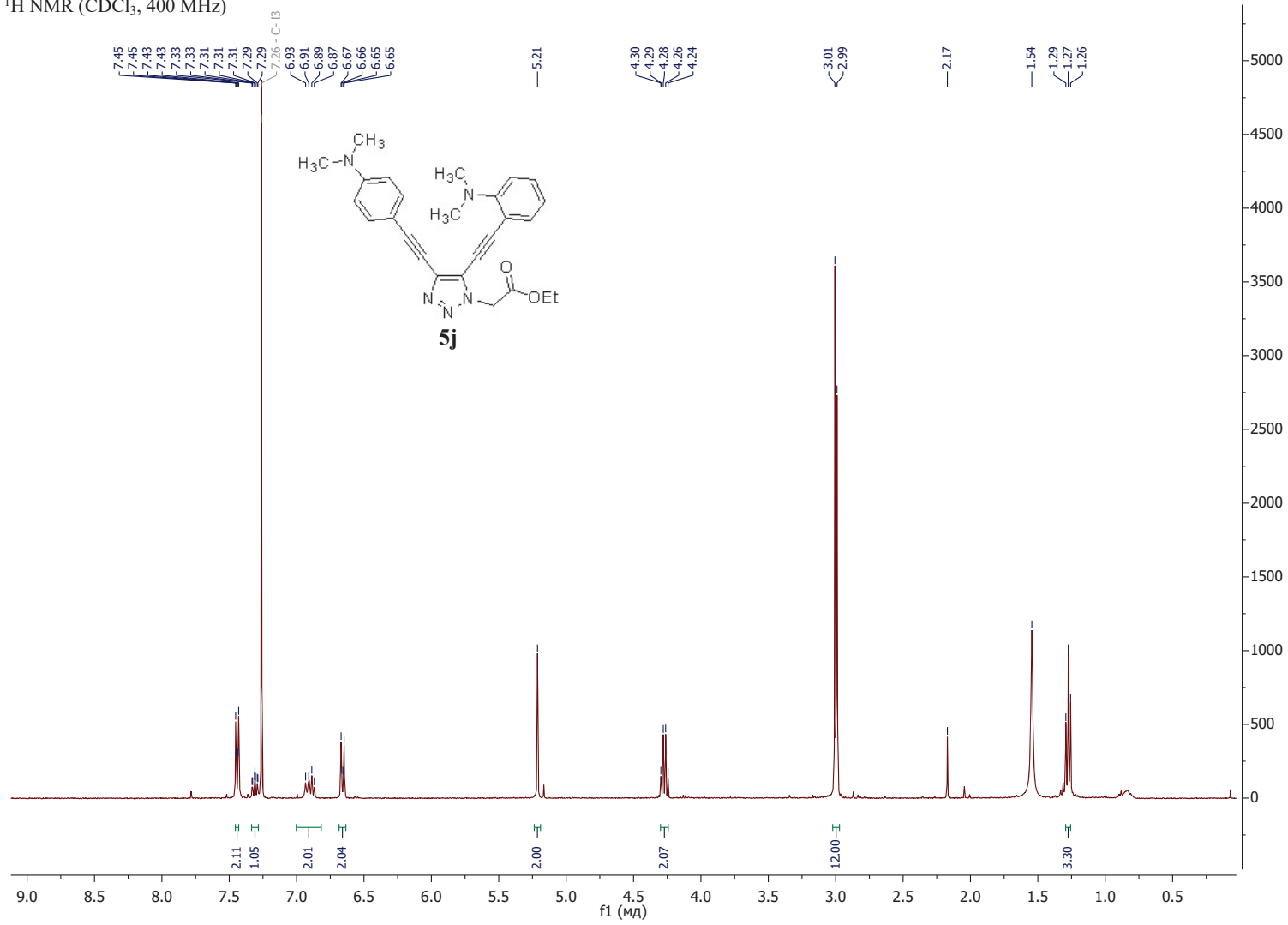
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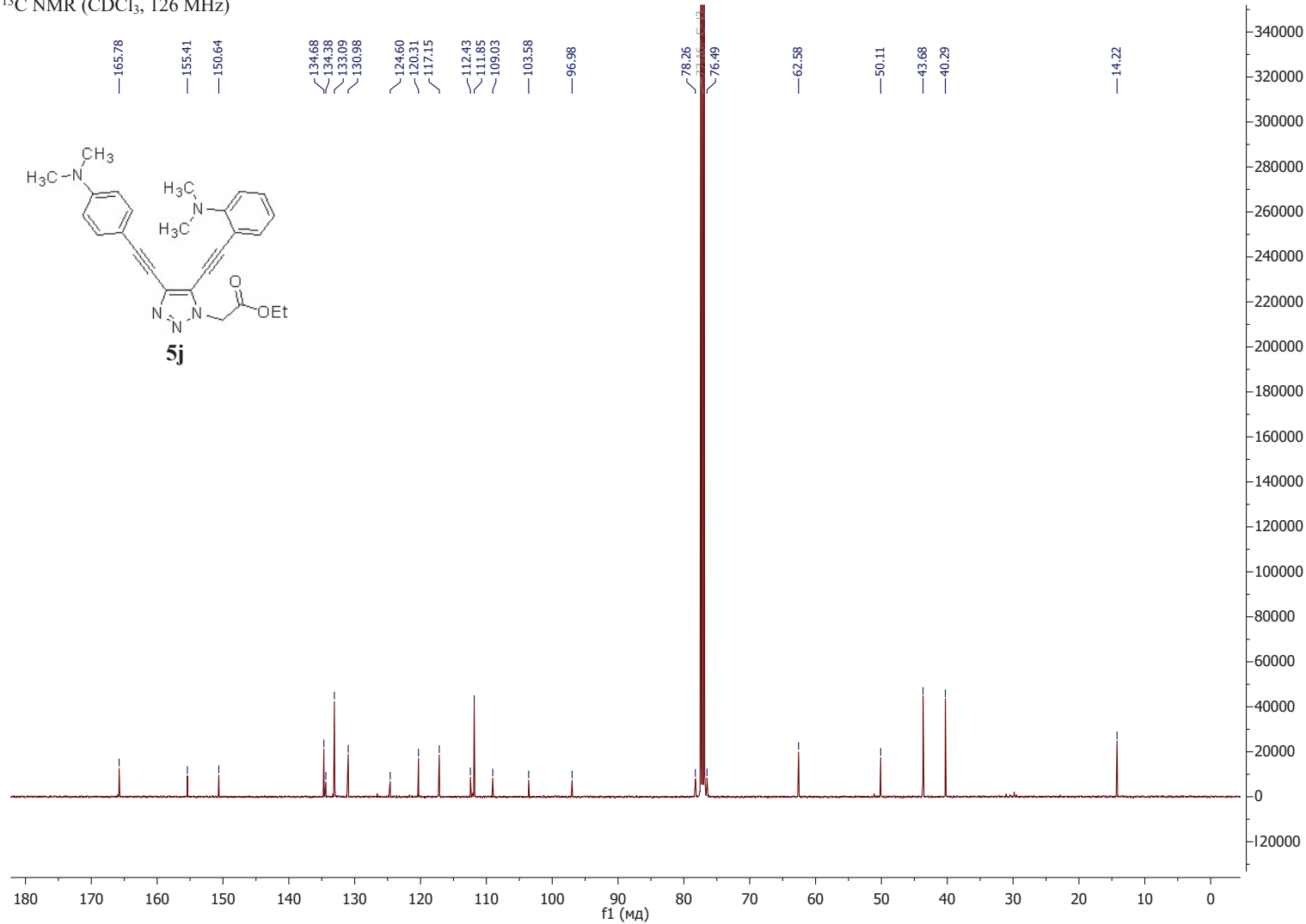
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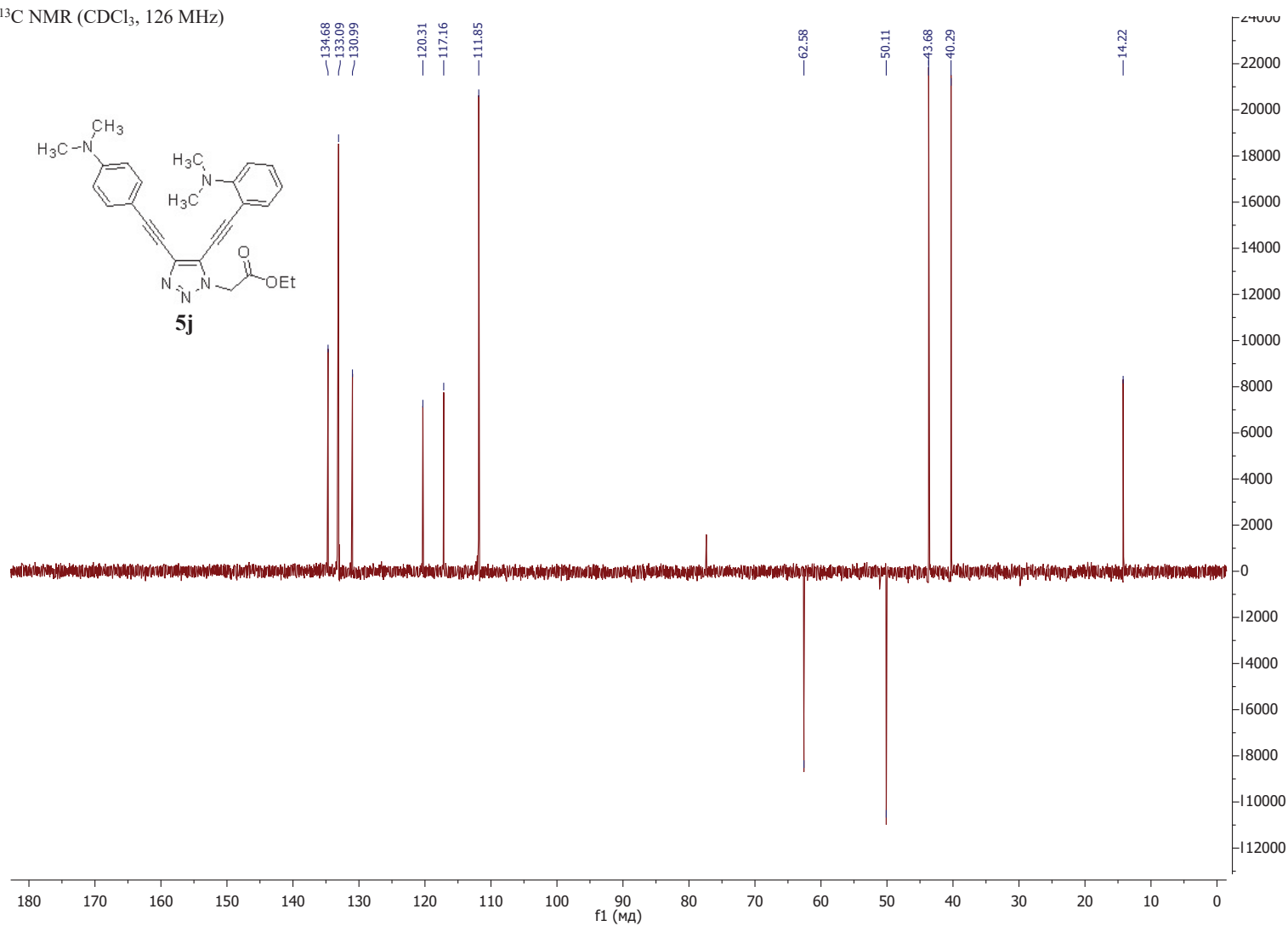
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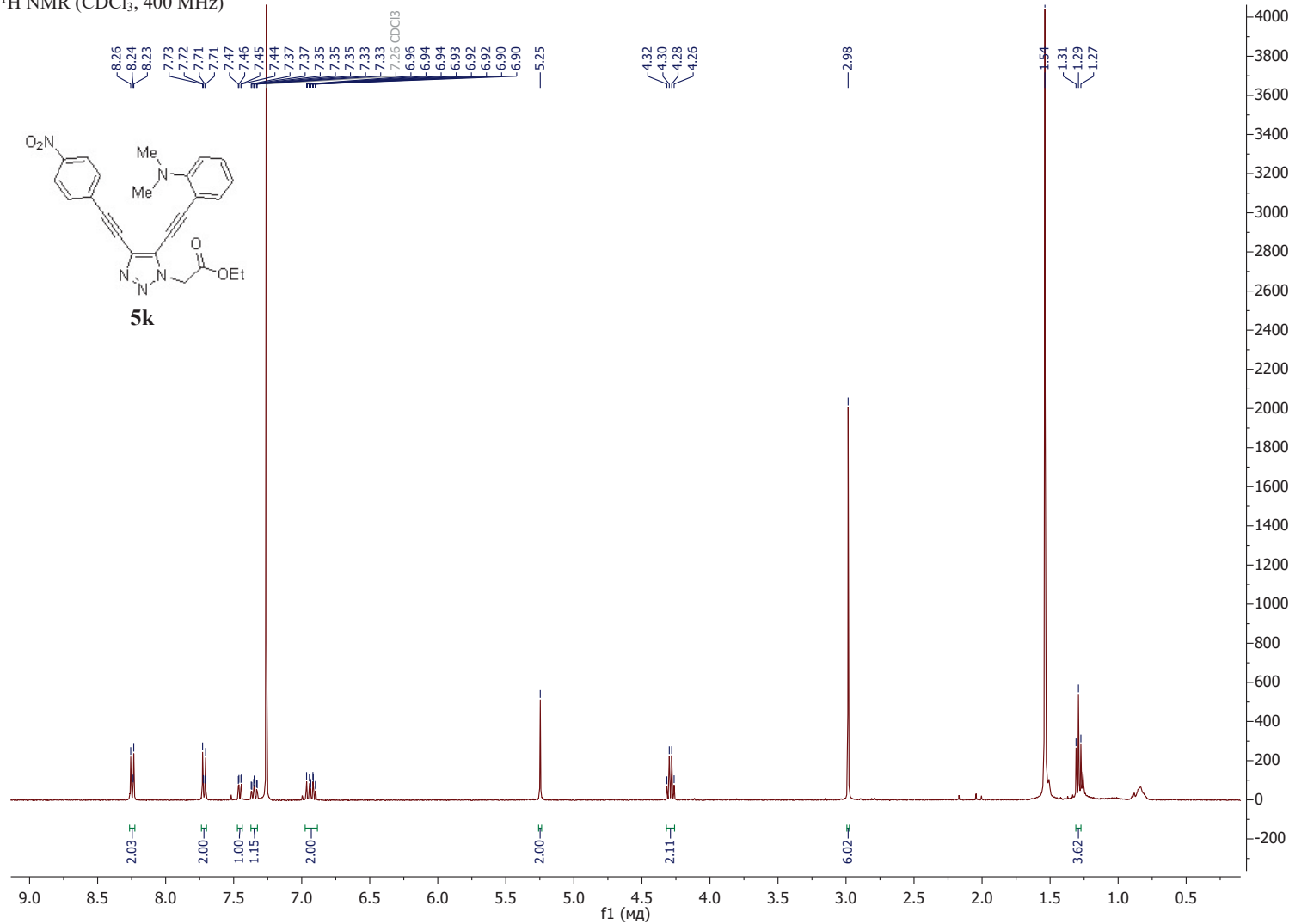
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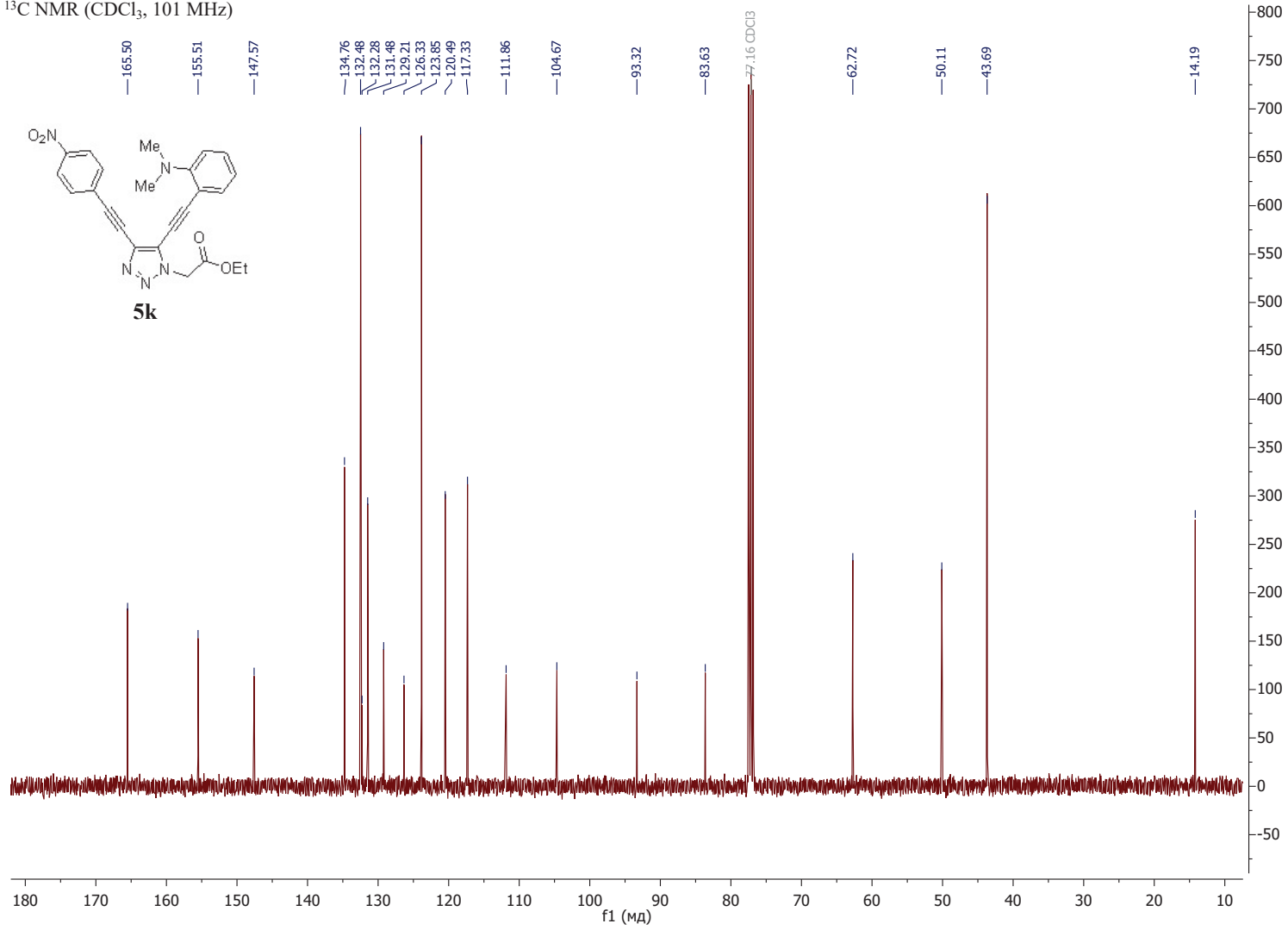
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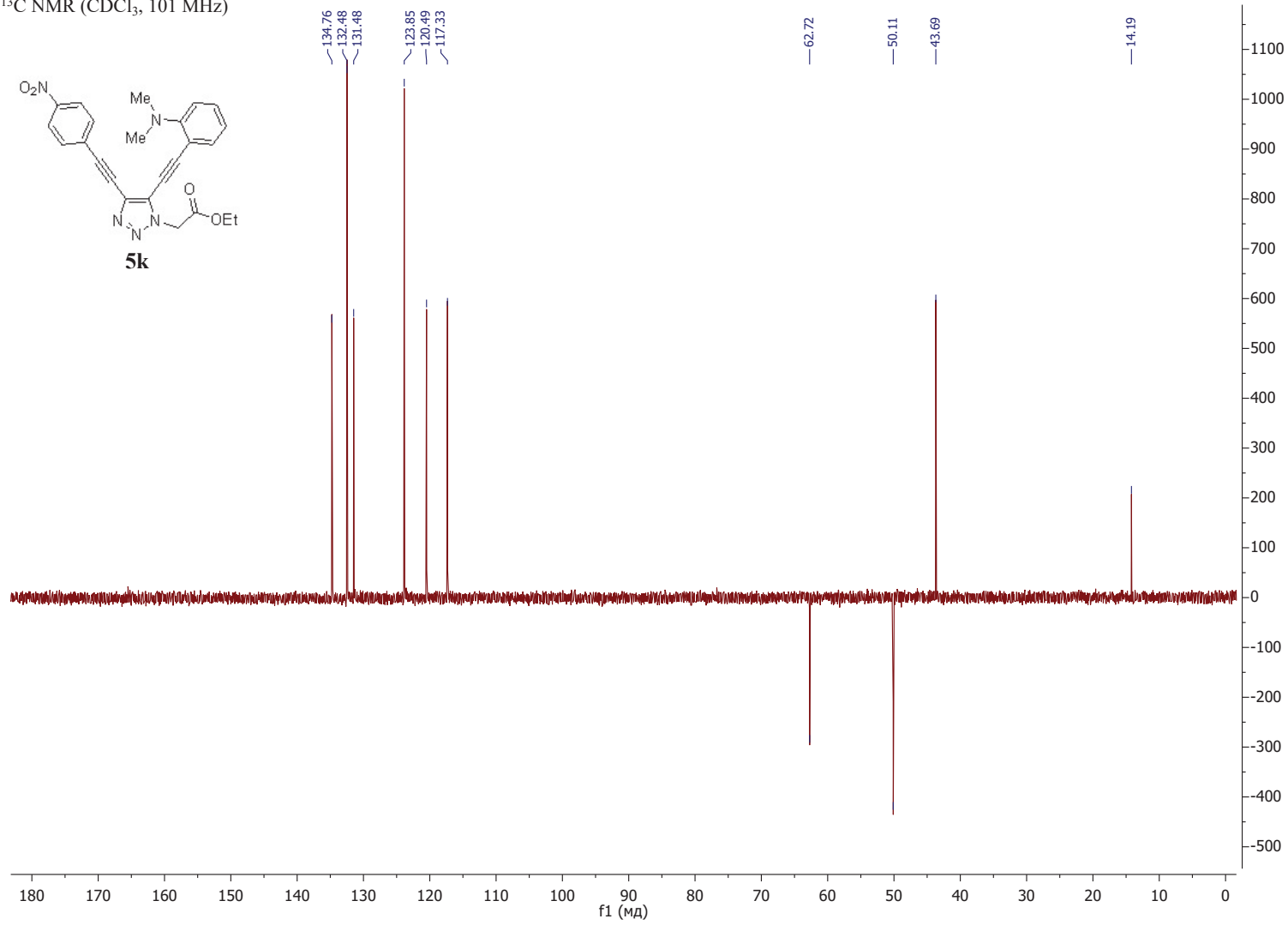
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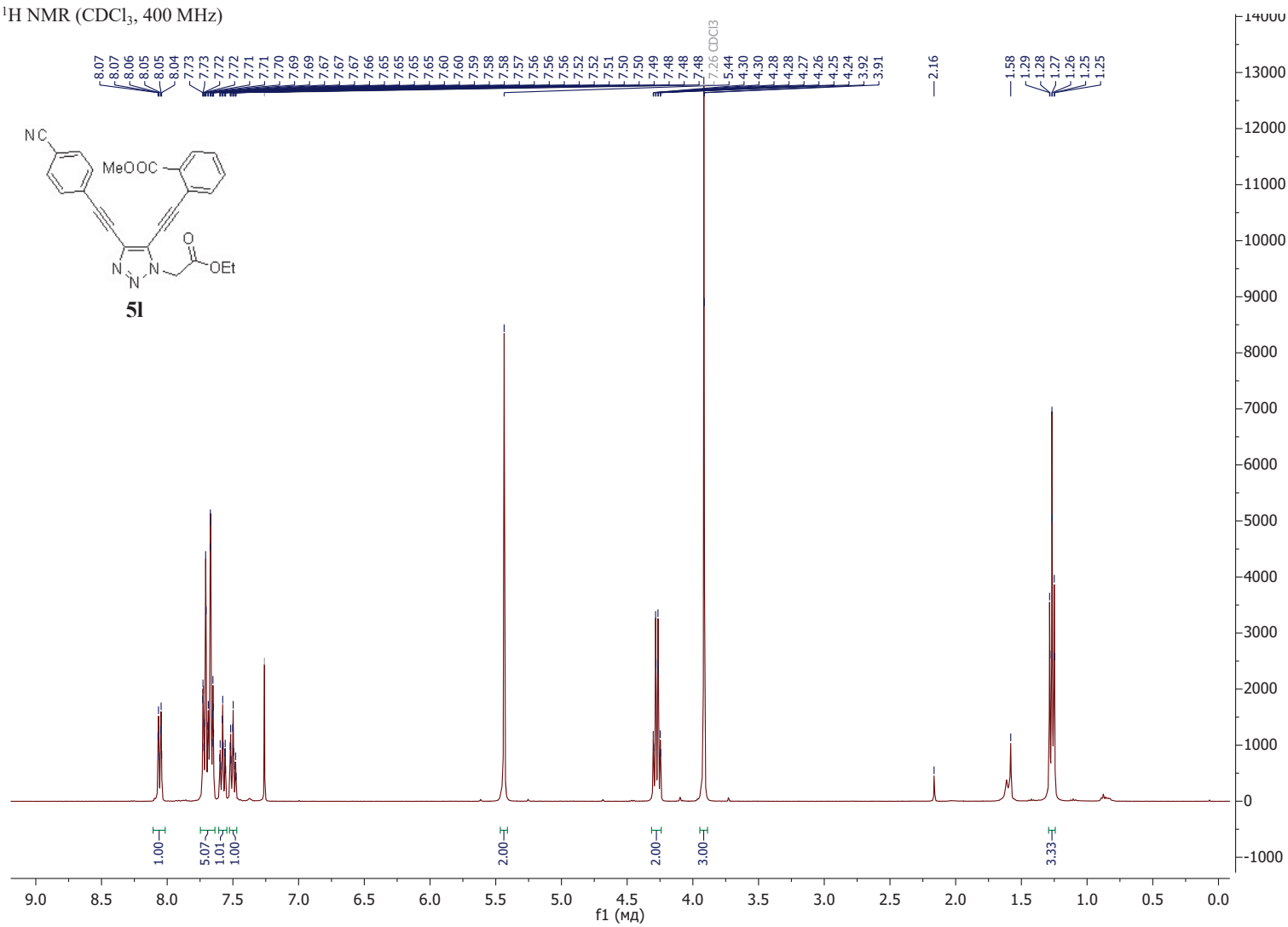
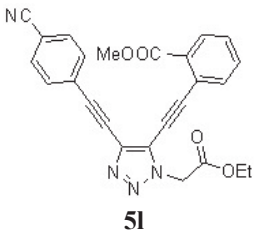


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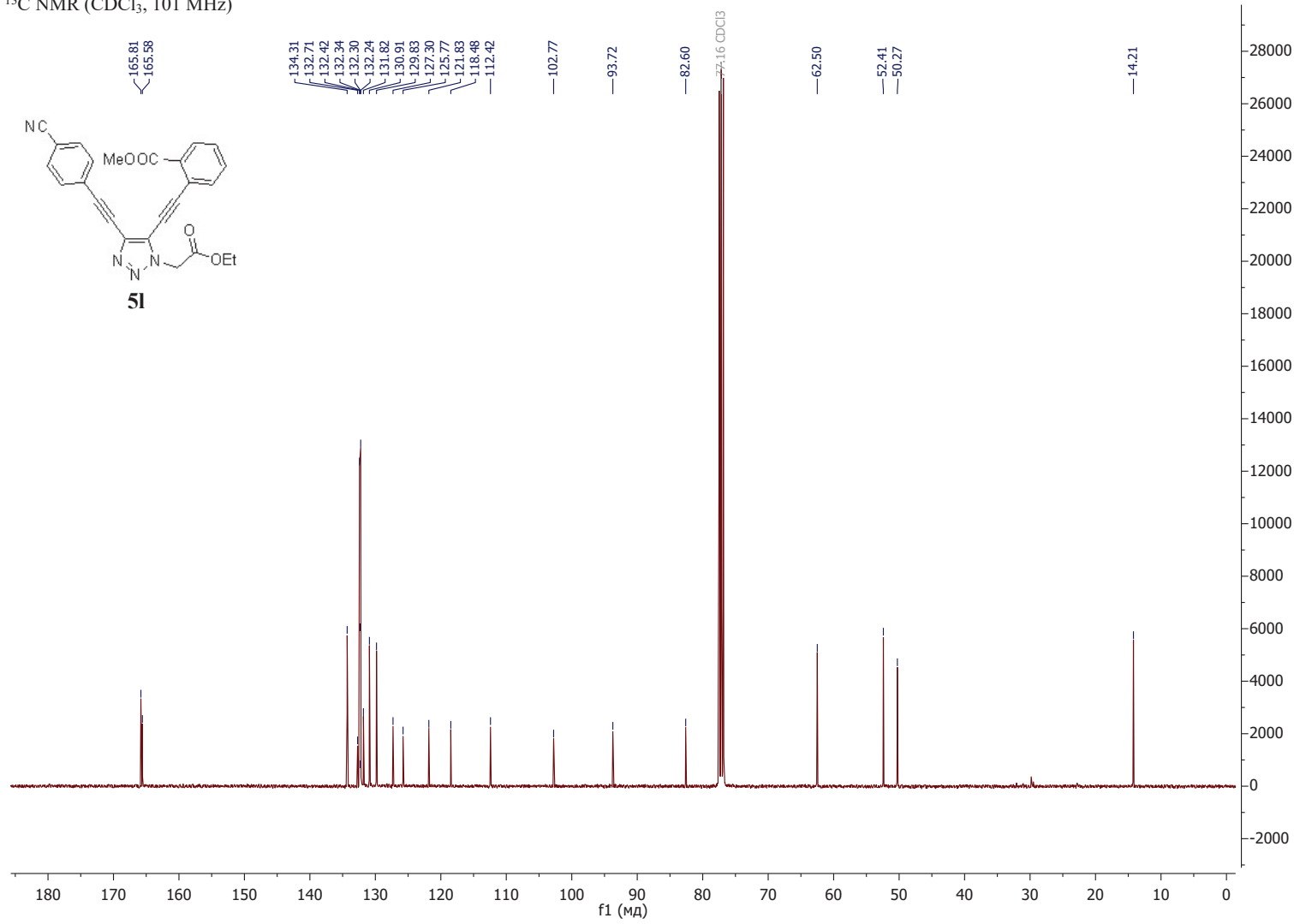


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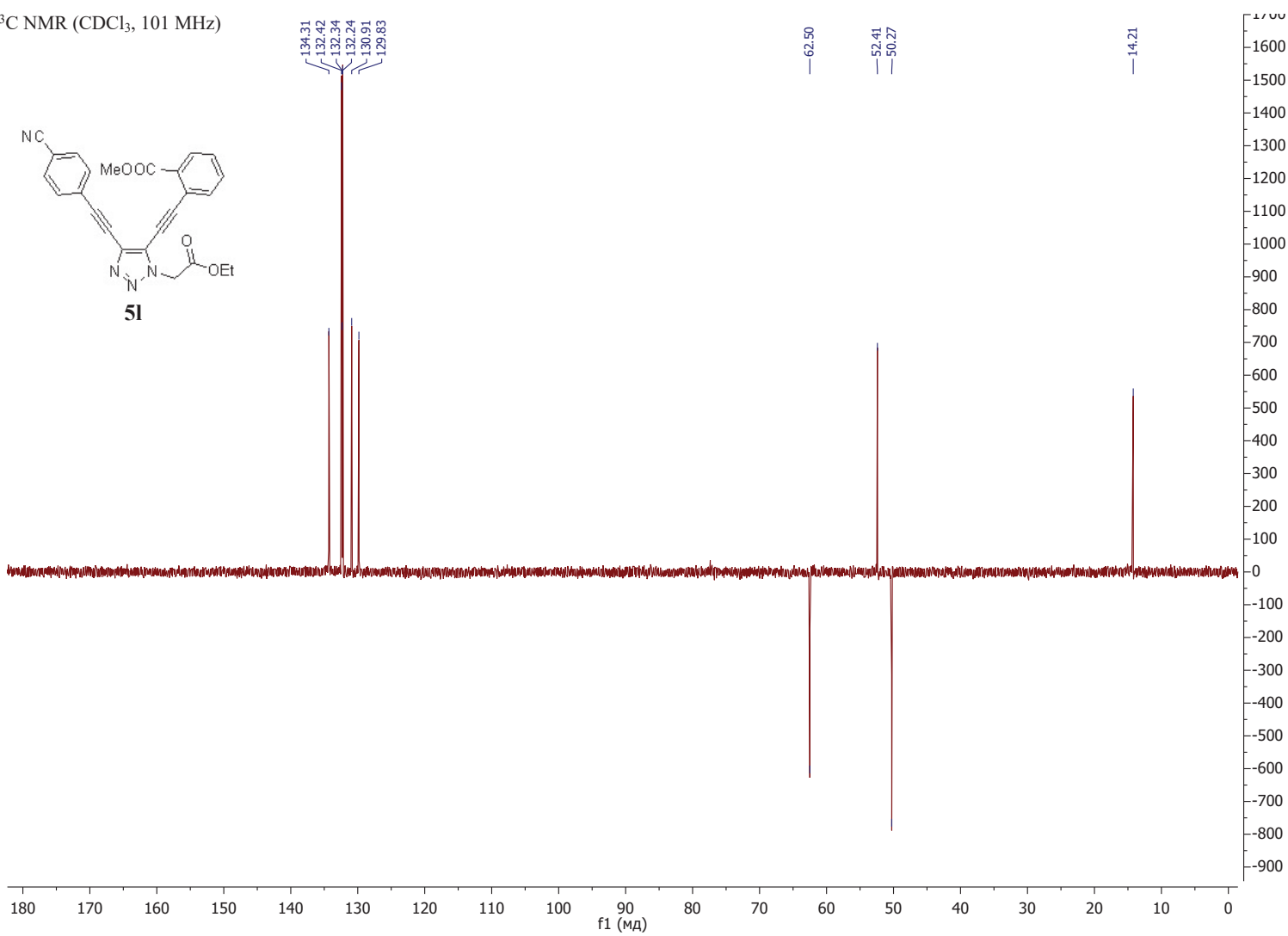
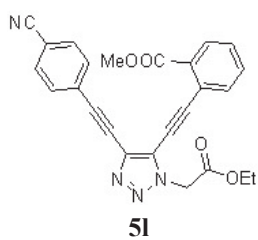


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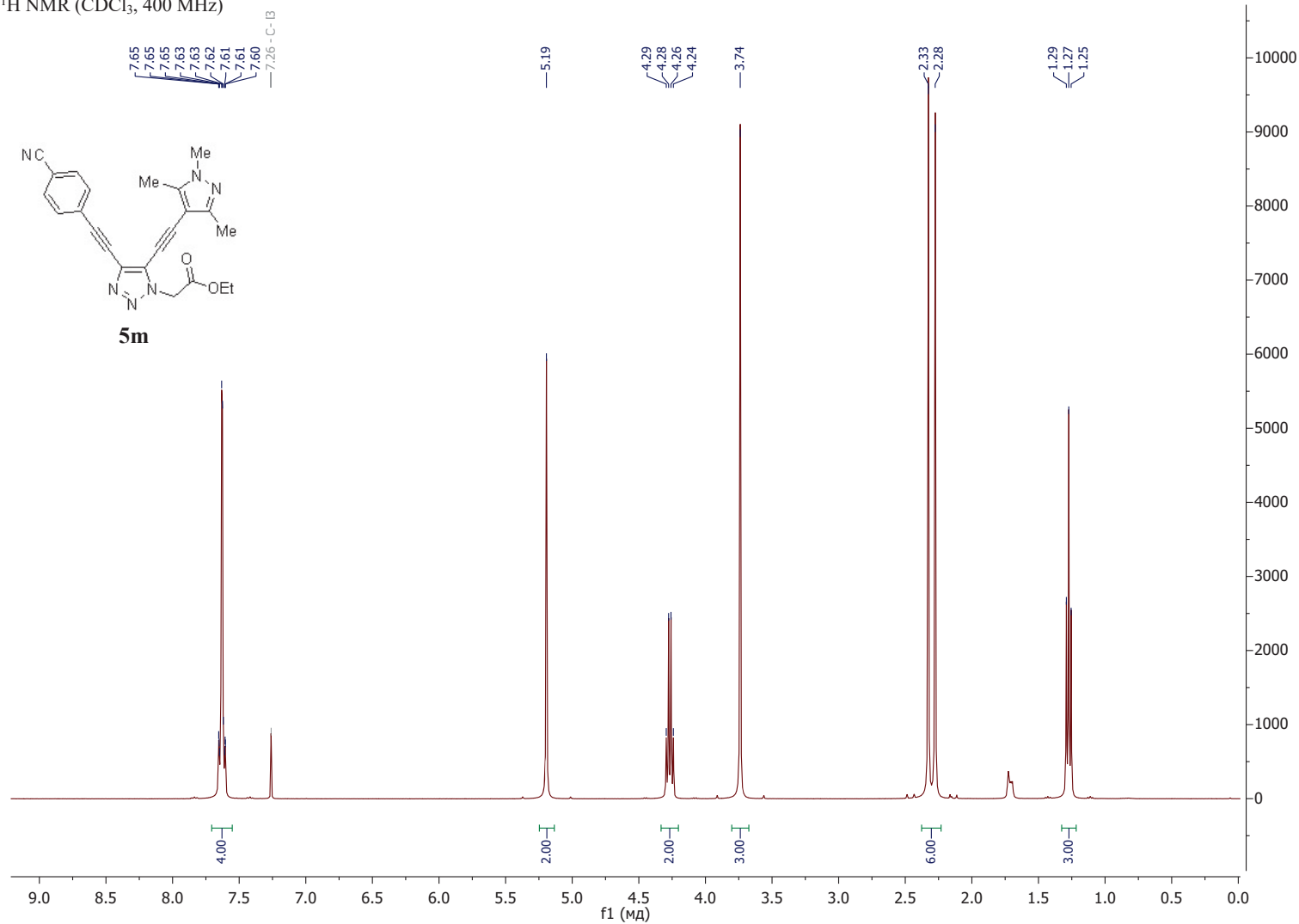
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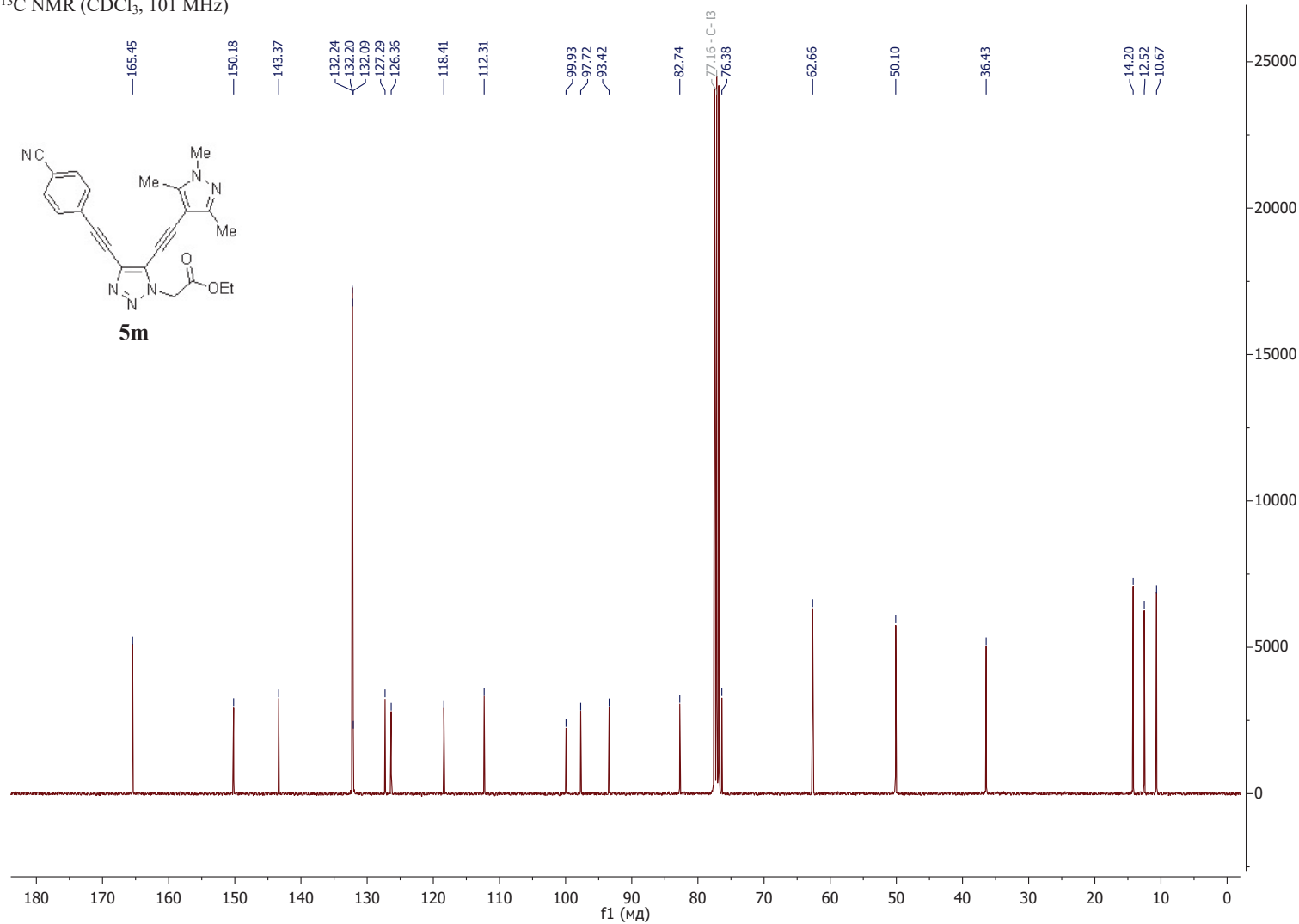
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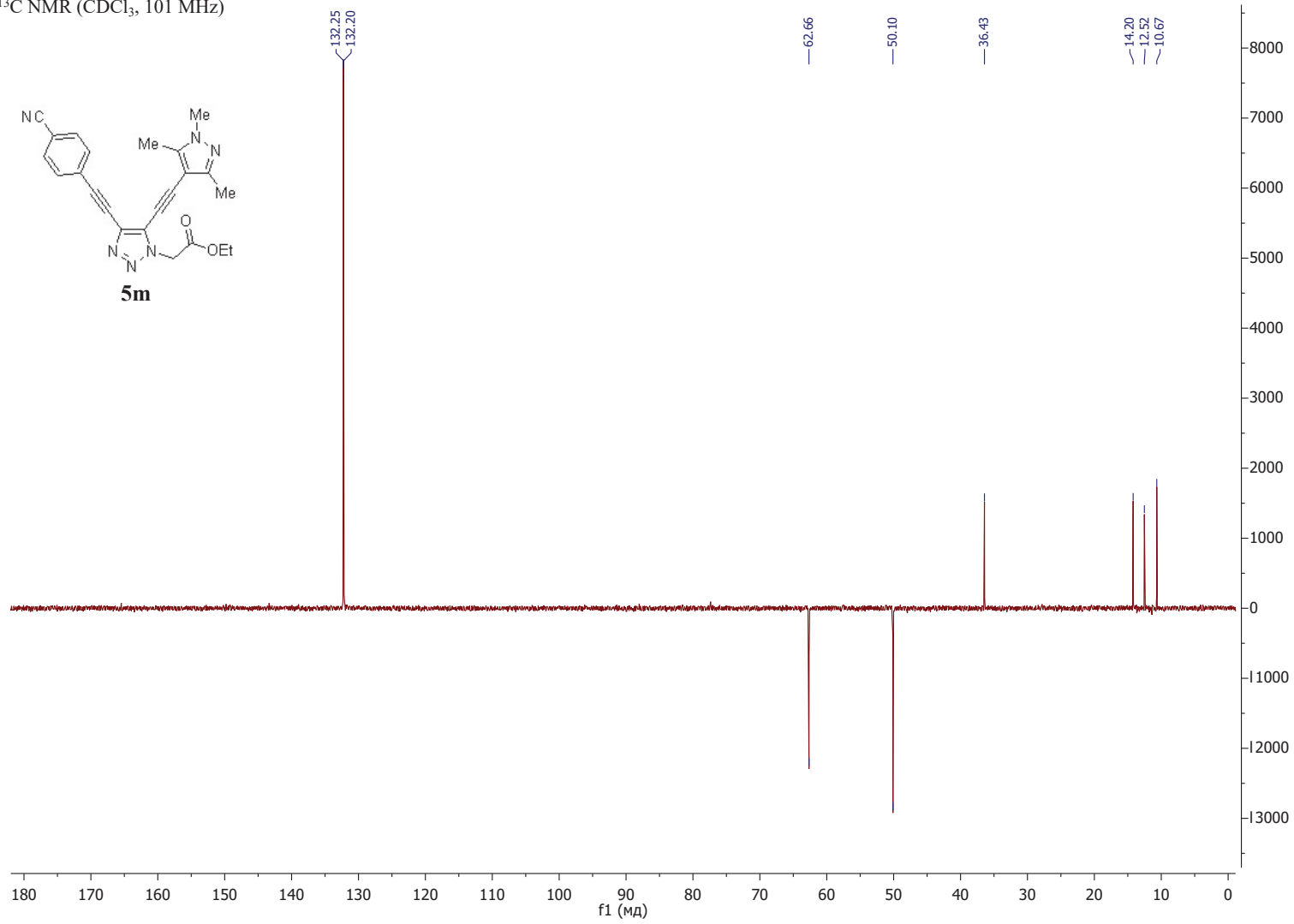
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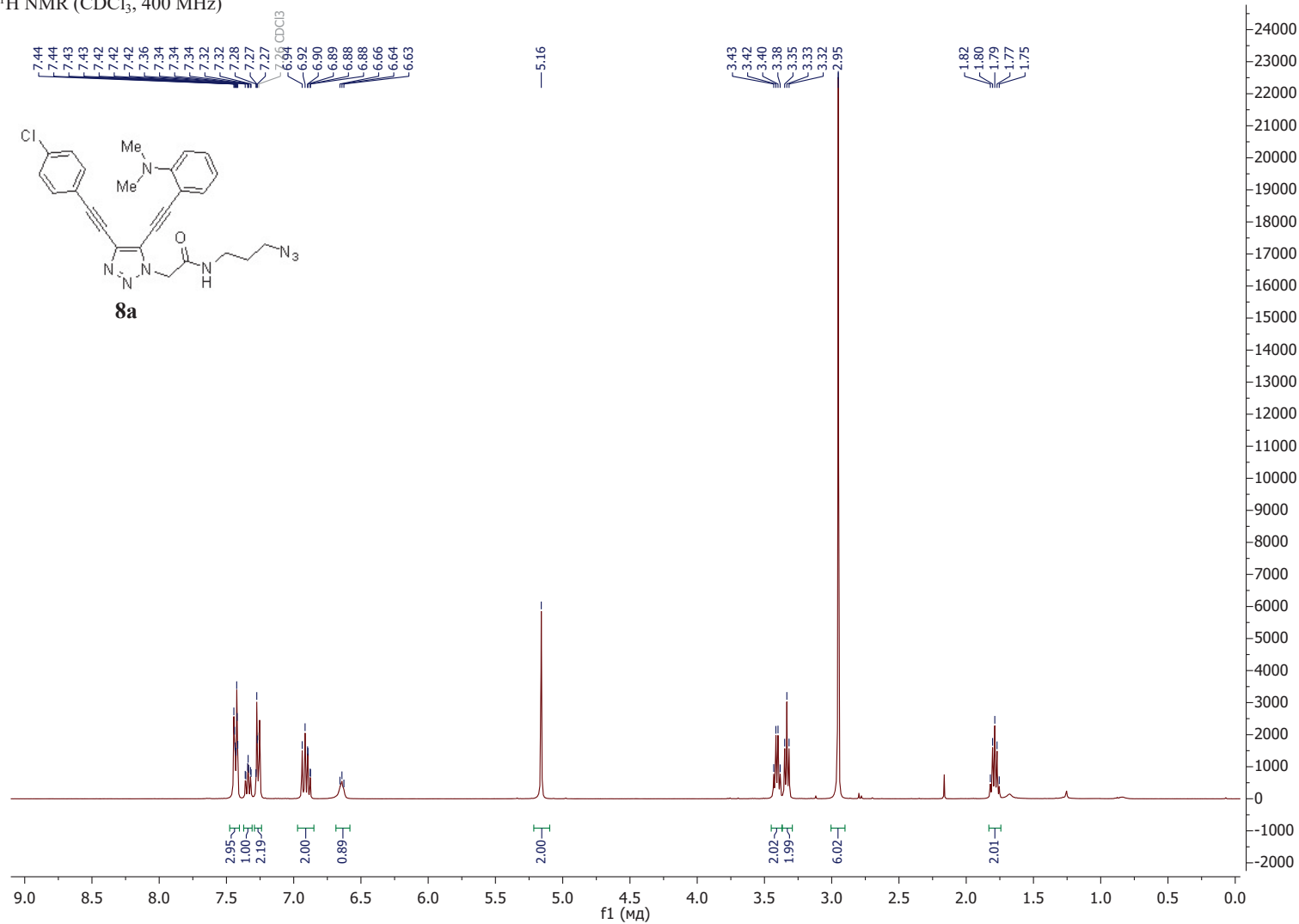
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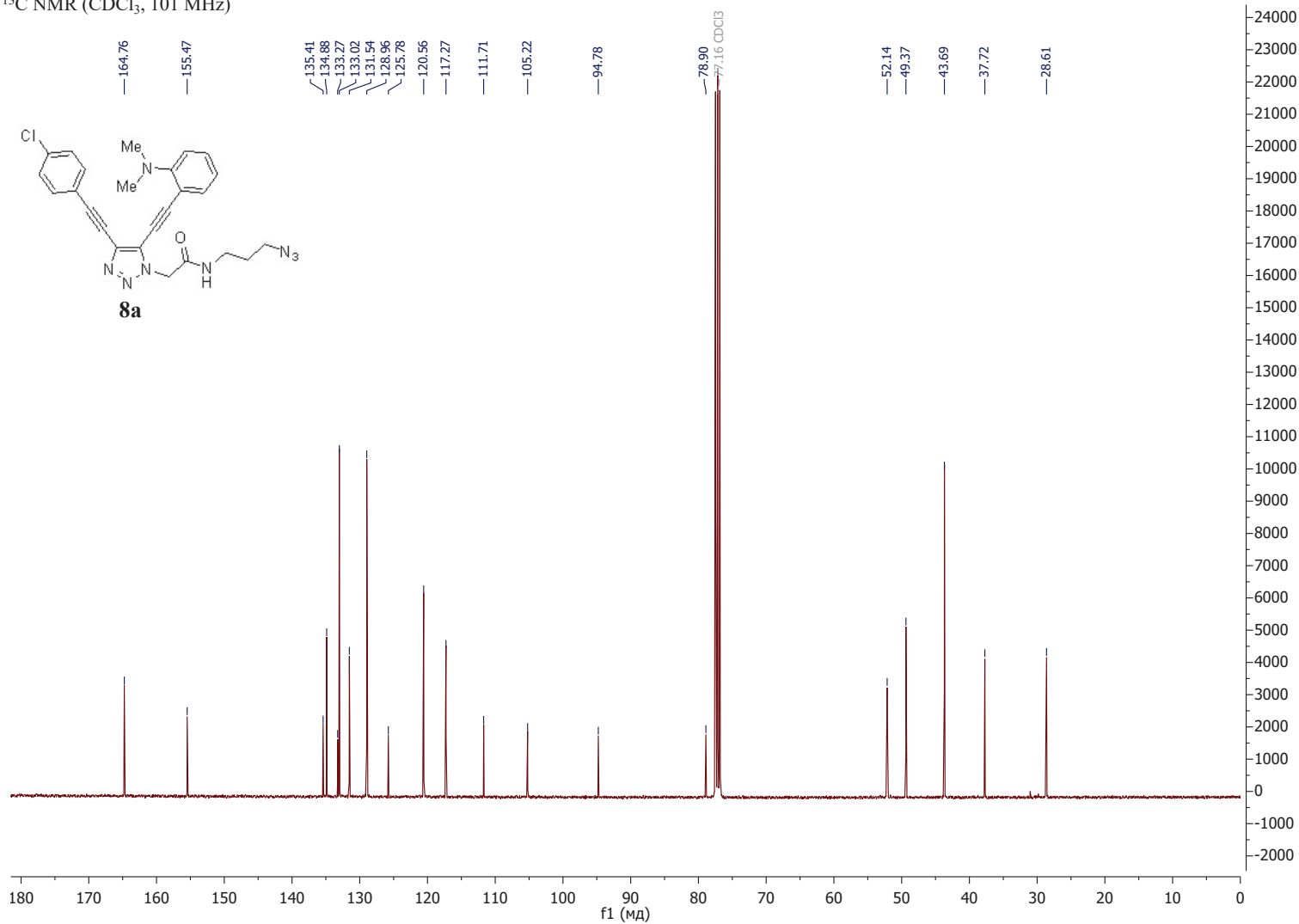
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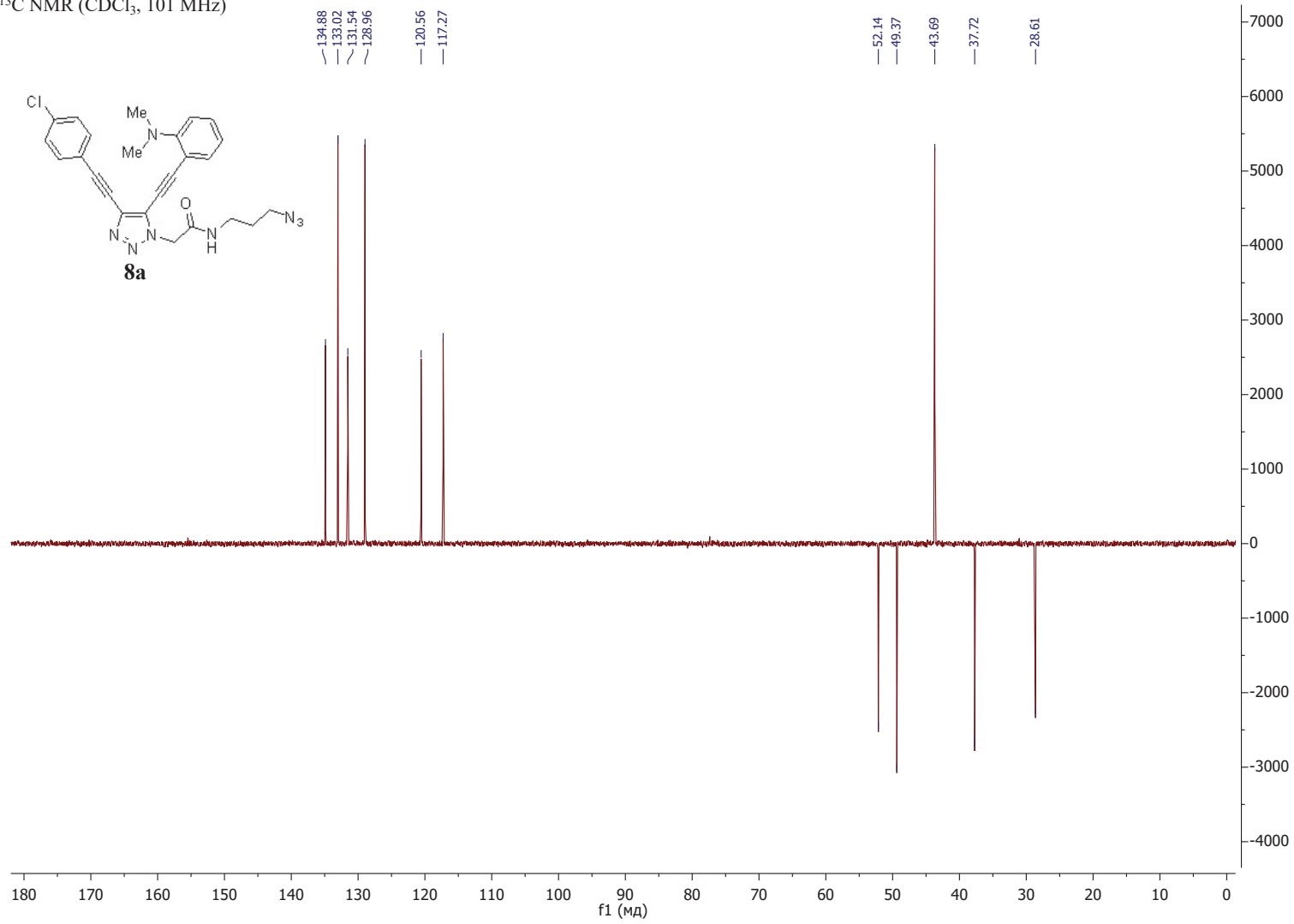
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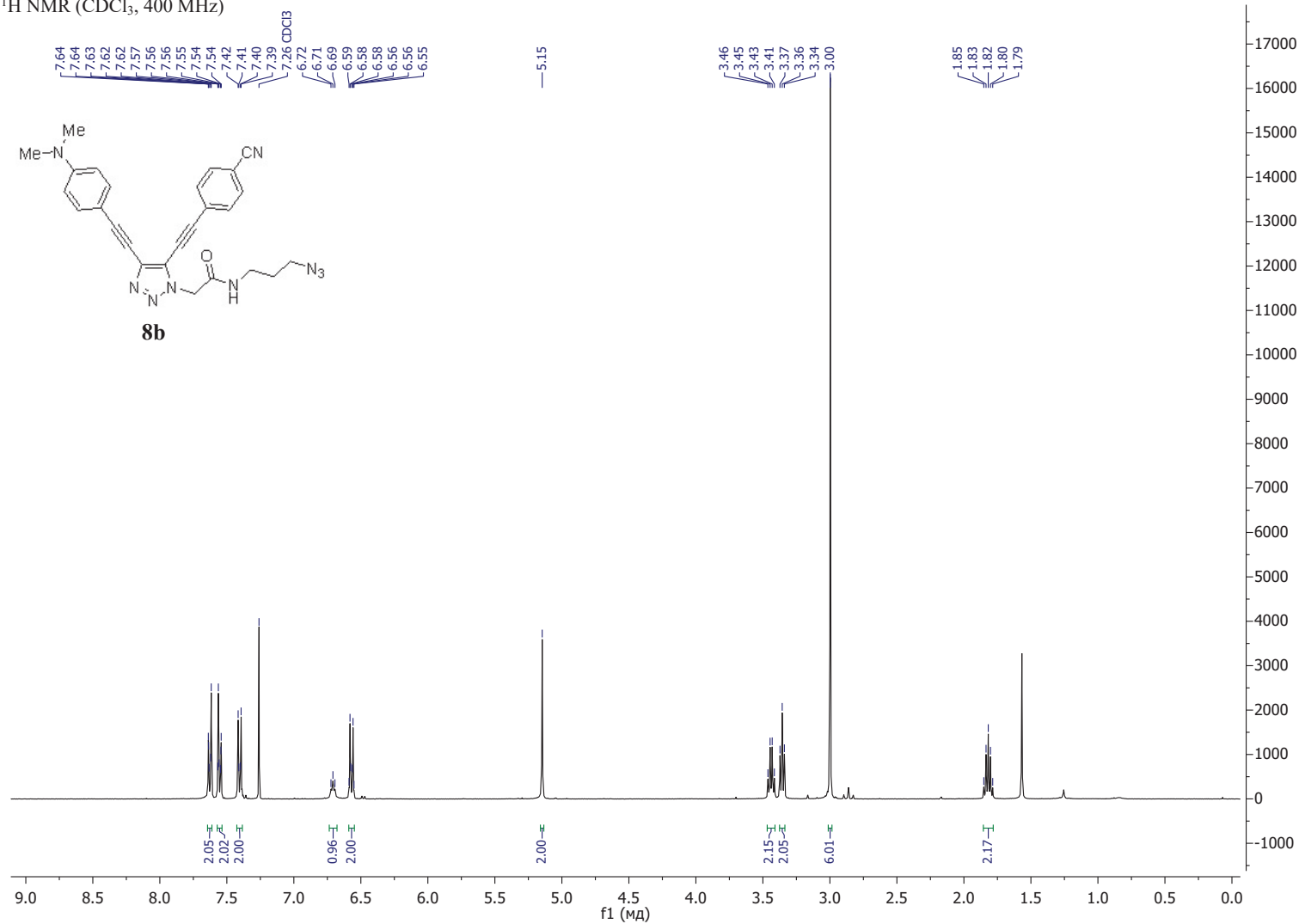
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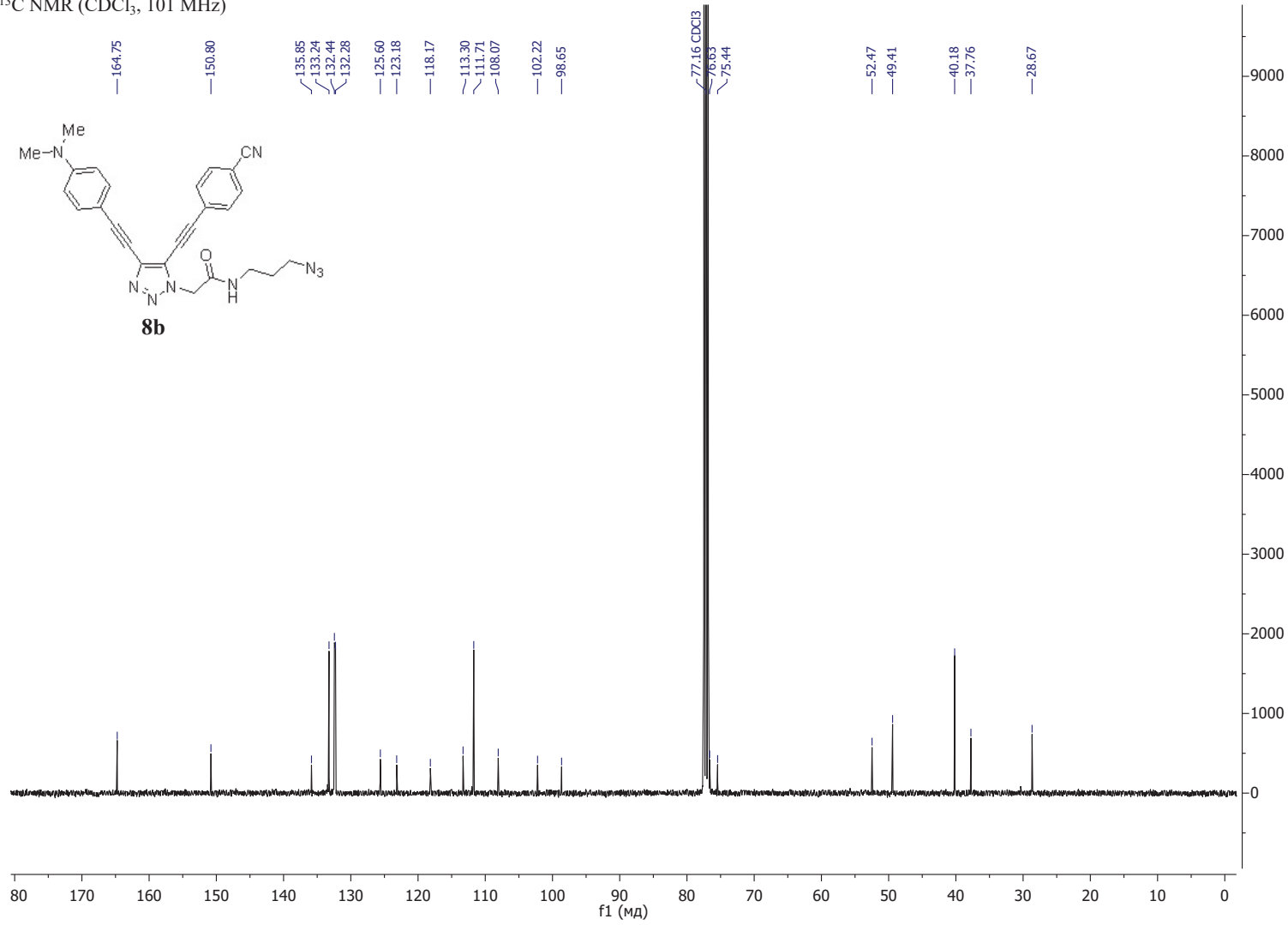
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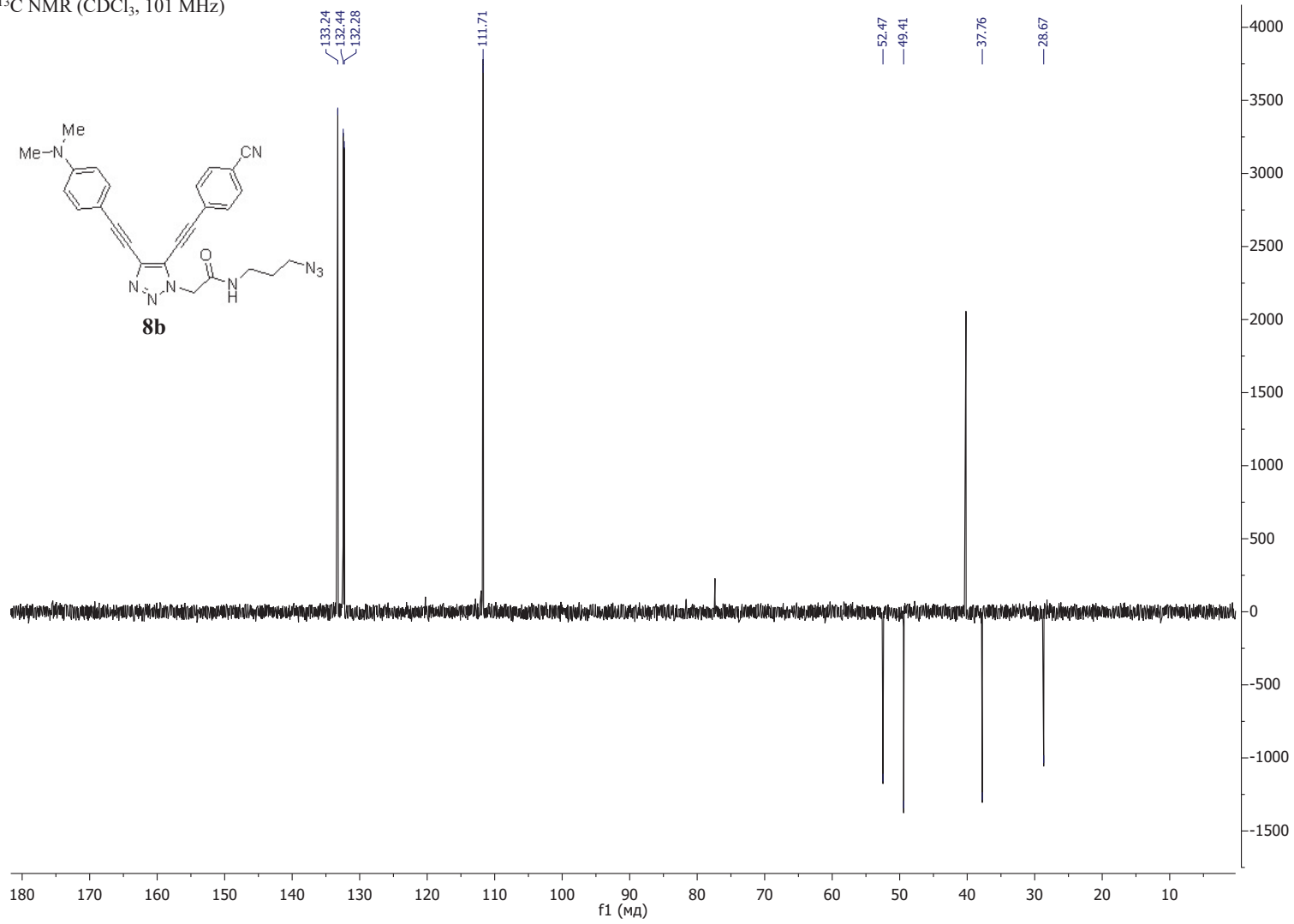
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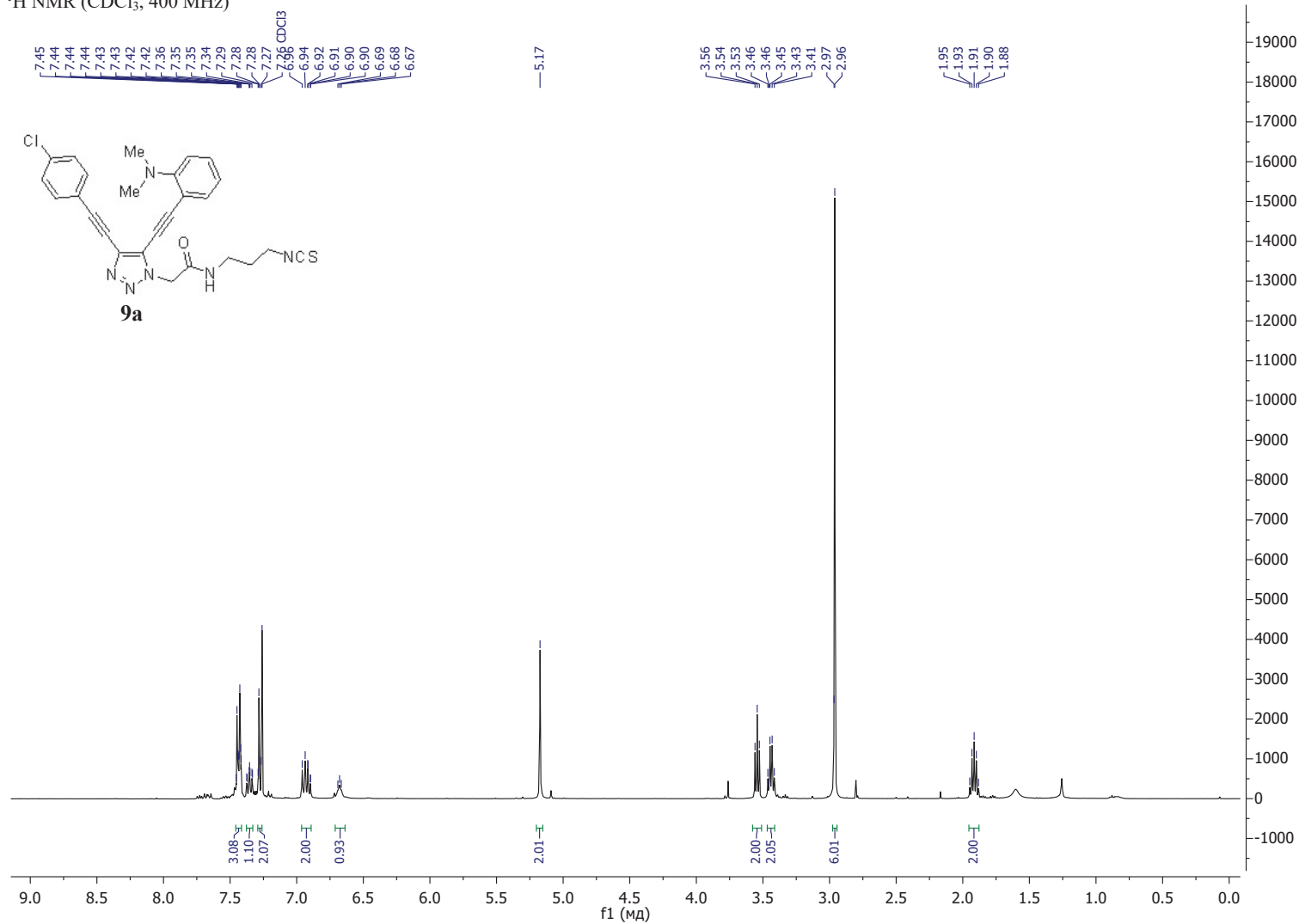
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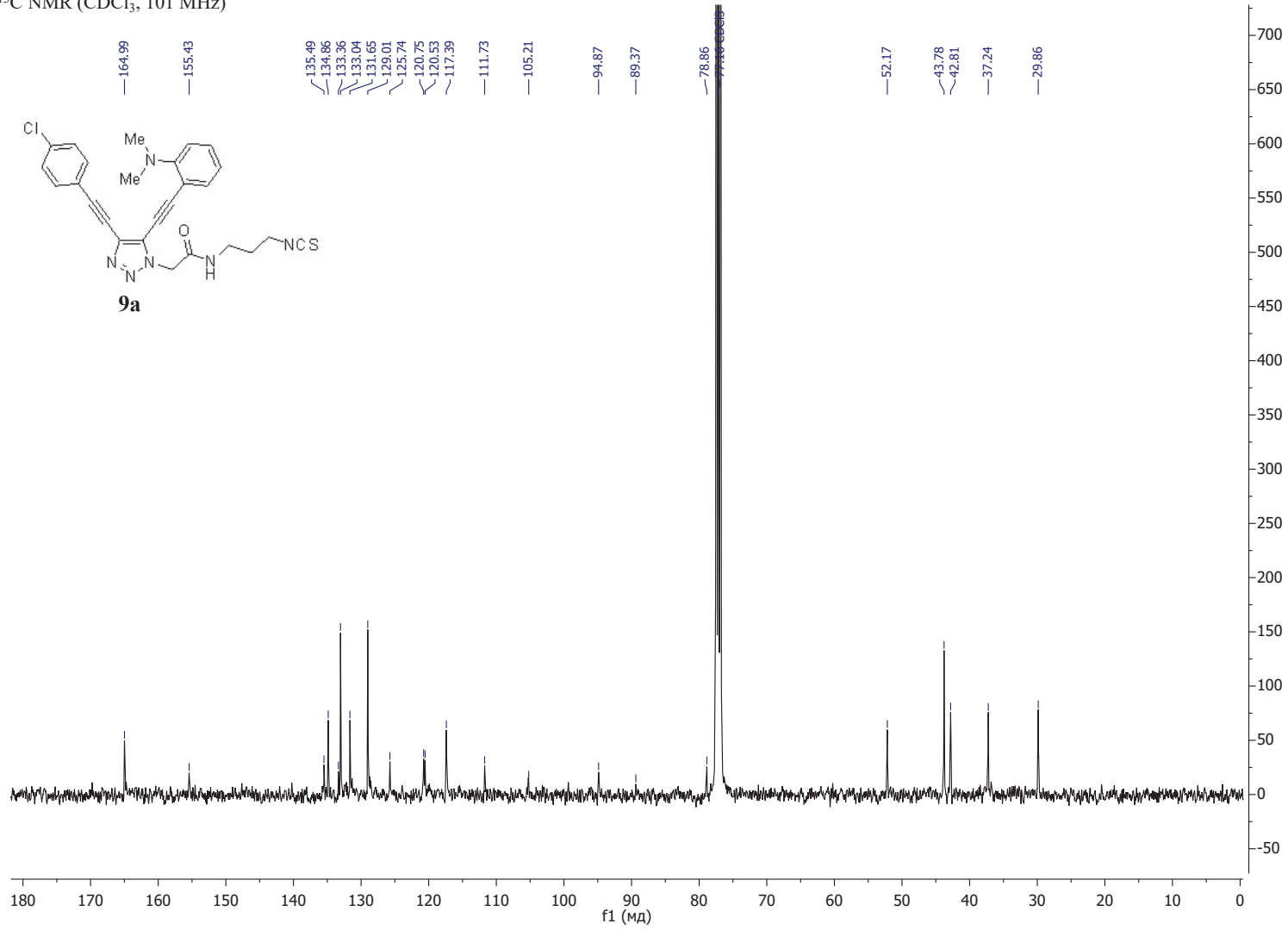
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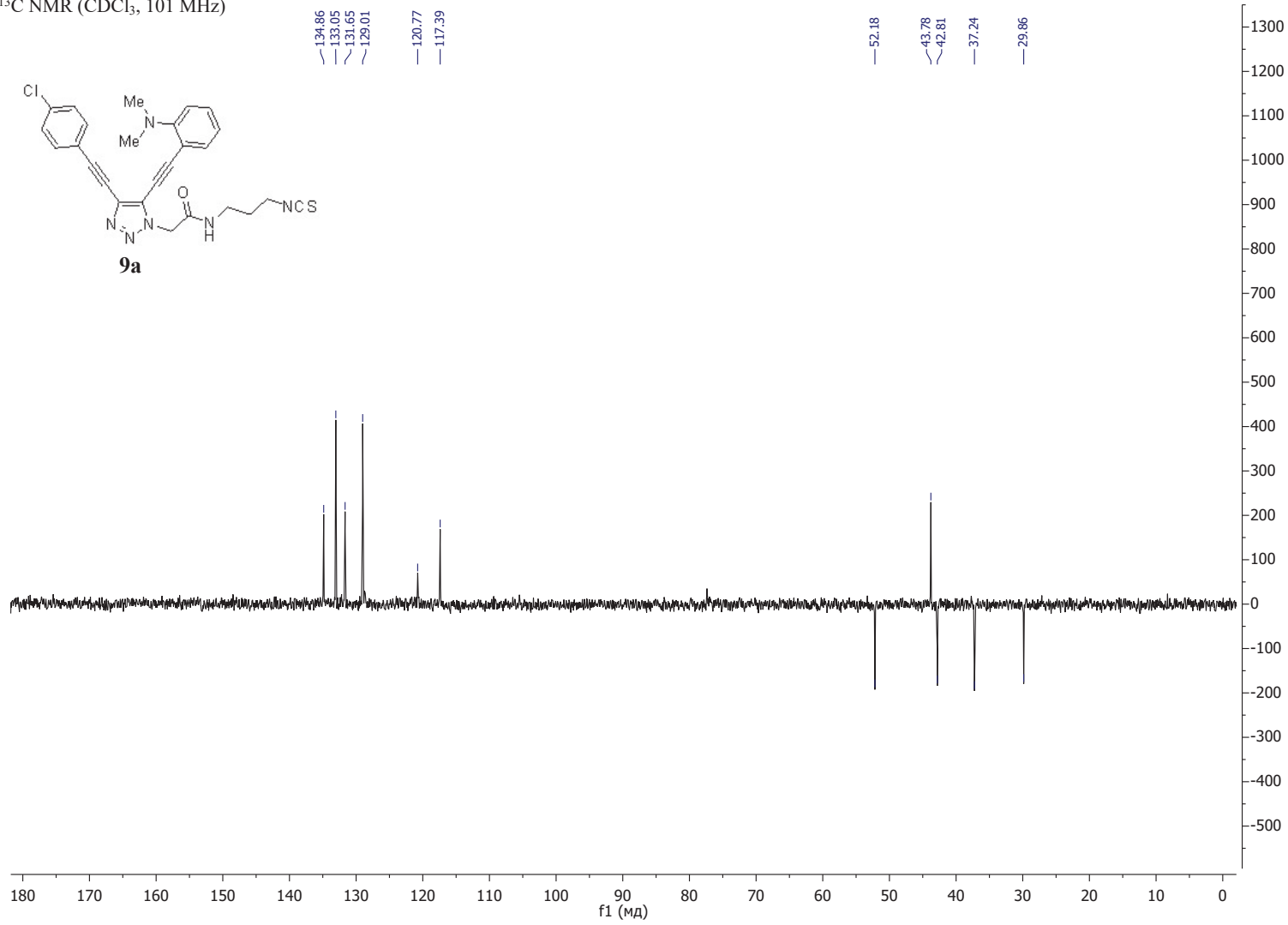
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¹³C NMR (CDCl₃, 101 MHz)



3a

Mass Spectrum Report

Analysis Info

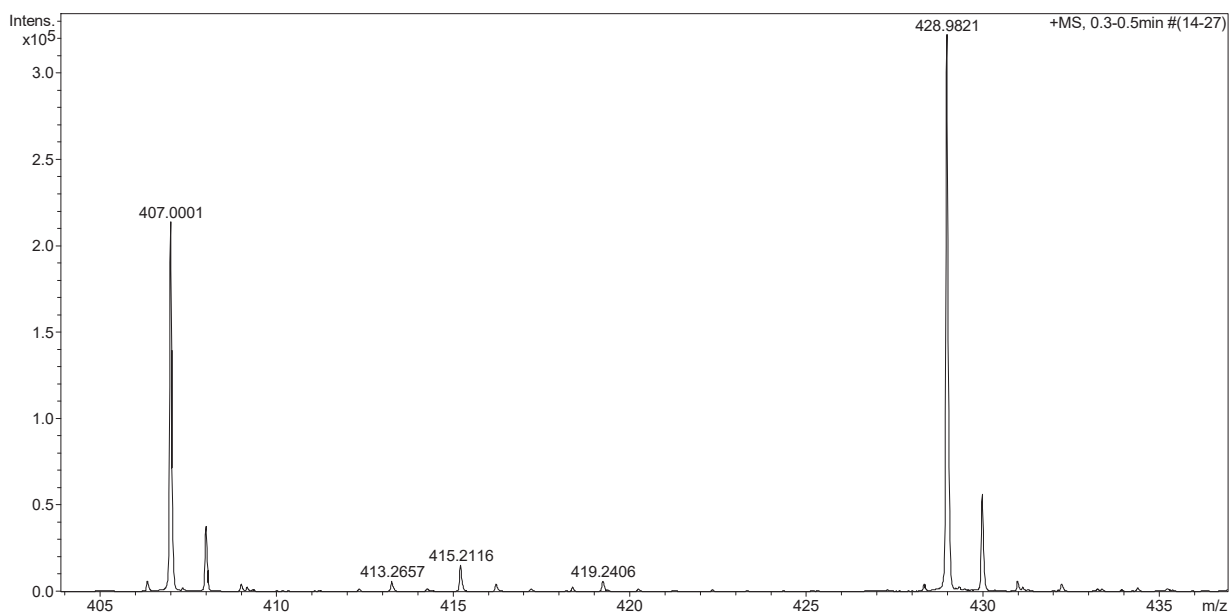
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Sample Name TOK62
Comment MeOH

Acquisition Date 20.11.2018 13:13:01

Operator
Instrument / Ser# Bruker Customer
microTOF 10223

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3b

Display Report

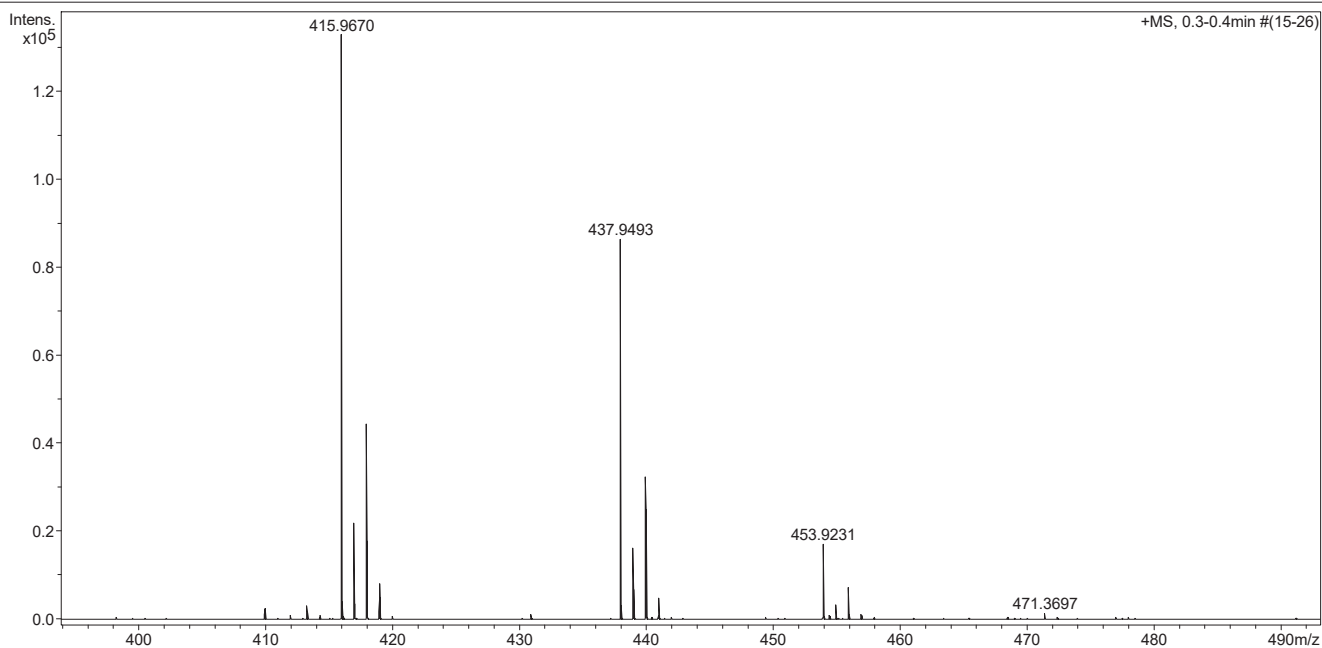
Analysis Info

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Comment

Acquisition Date 23-Oct-18 14:08:54
Operator BDAL@DE
Instrument maXis 62

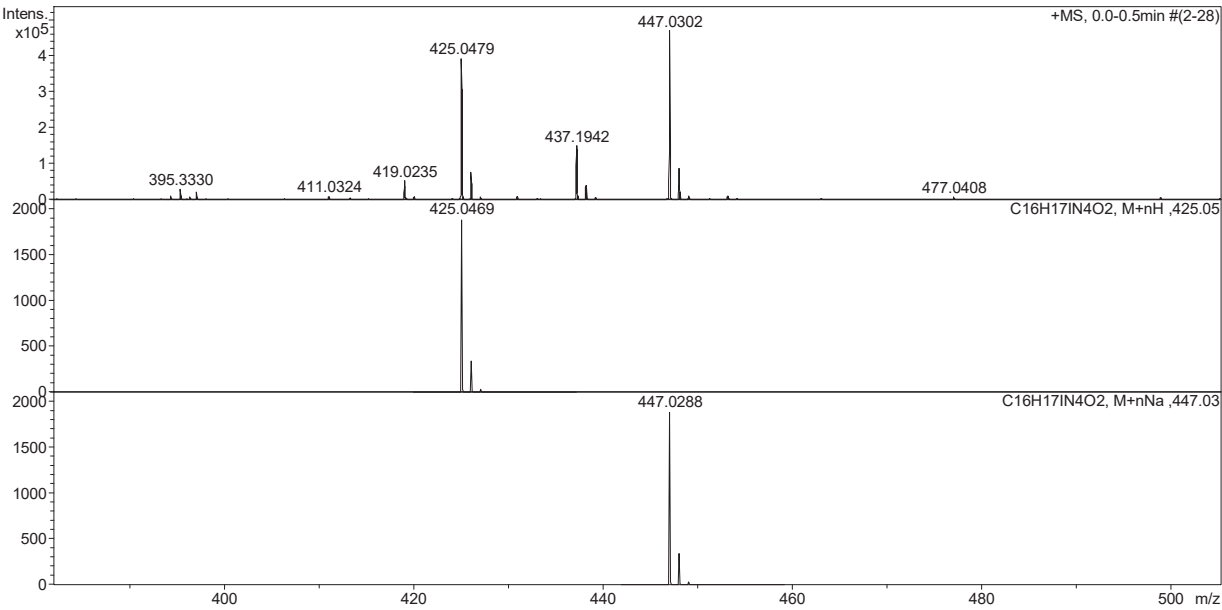
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Mass Spectrum Report

Analysis Info				Acquisition Date		13.11.2018 10:18:33					
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Comment		MeOH									
Acquisition Parameter											
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3d

Mass Spectrum Report

Analysis Info

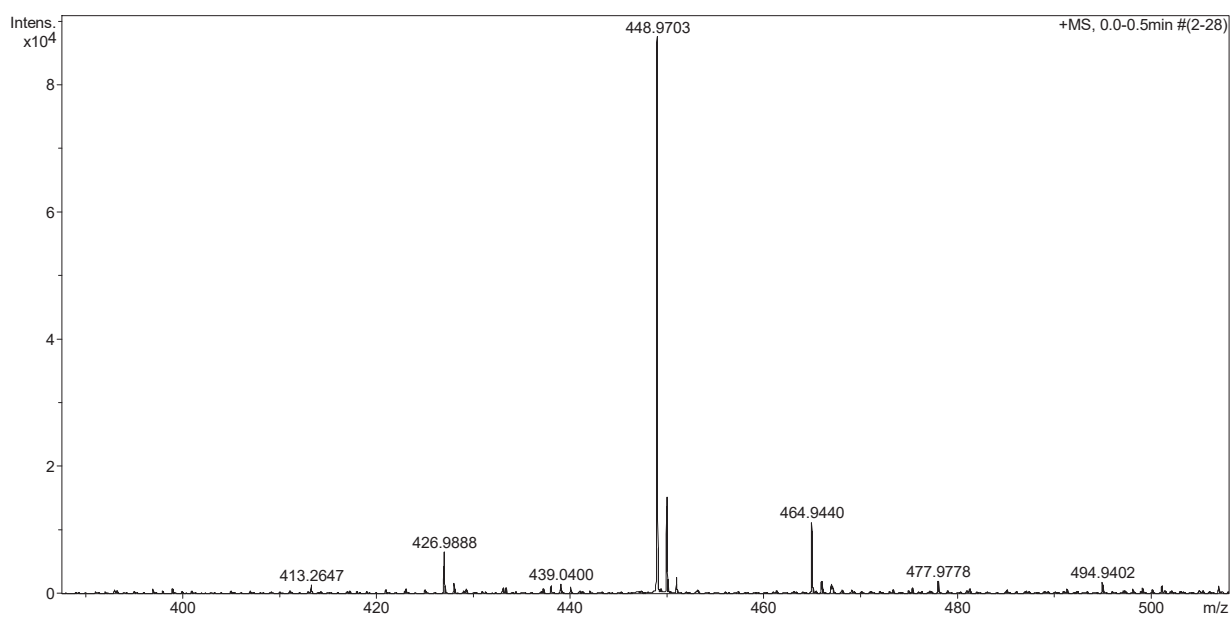
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Method tune_low.m
Sample Name TOK38
Comment MeOH

Acquisition Date 05.10.2018 9:49:27

Operator
Instrument / Ser# Bruker Customer
microTOF 10223

Acquisition Parameter

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5a

Mass Spectrum Report

Analysis Info

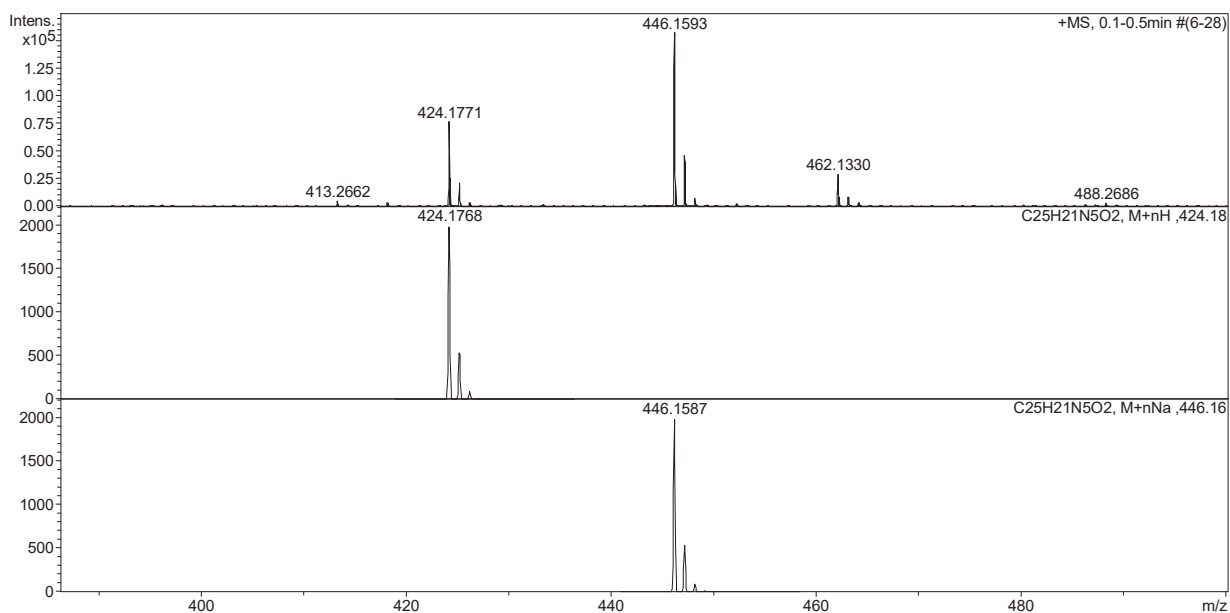
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Sample Name TOK128
Comment MeOH

Acquisition Date 09.04.2019 17:30:18

Operator
Instrument / Ser# Bruker Customer
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5b

Mass Spectrum Report

Analysis Info

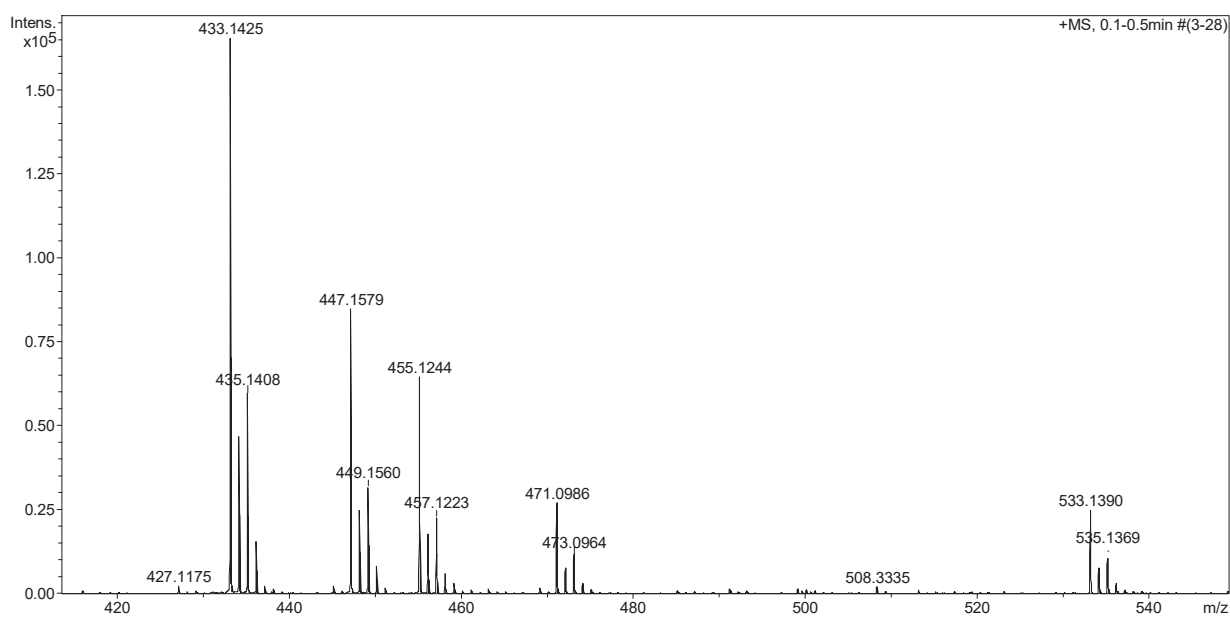
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Comment MeOH

Acquisition Date 08.02.2019 14:19:51

Operator
Instrument / Ser# Bruker Customer
microTOF 10223

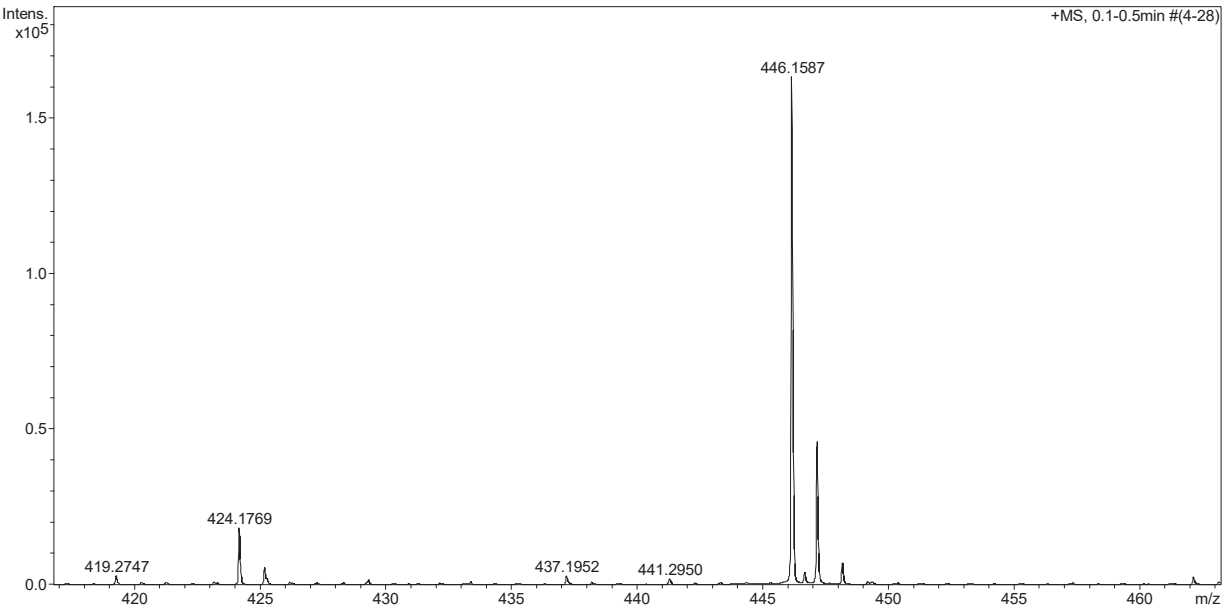
Acquisition Parameter

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Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Mass Spectrum Report

Analysis Info				Acquisition Date		03.12.2018 13:48:26	
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Comment	MeOH 50v						
Acquisition Parameter							
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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	Source		



Mass Spectrum Report

Analysis Info

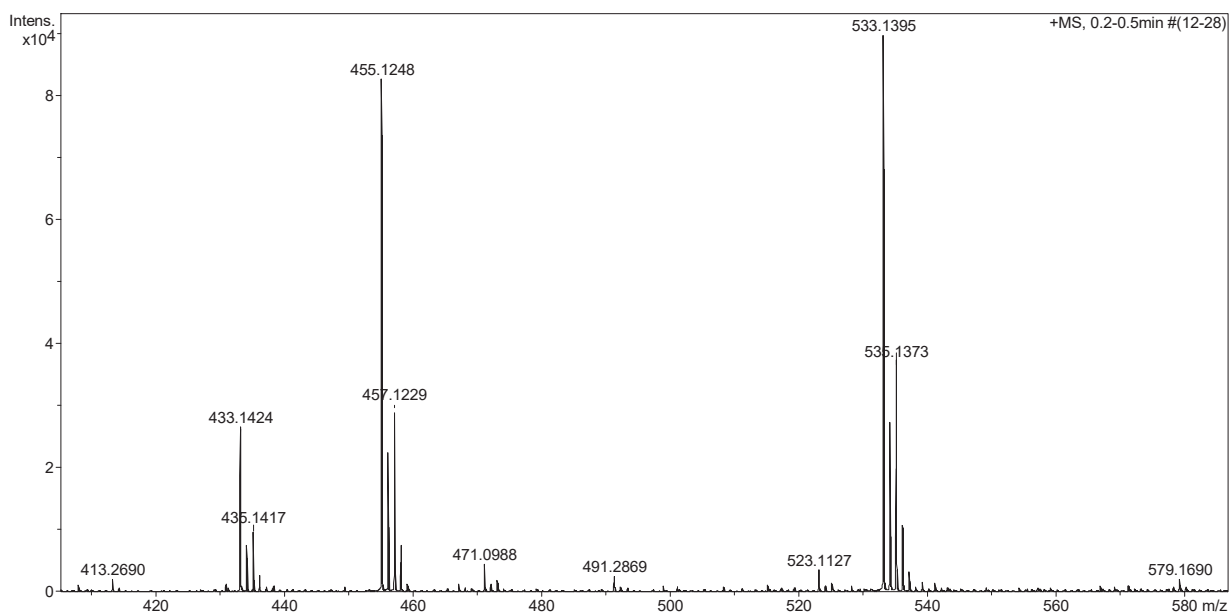
Analysis Name D:\Data\2019\february\08\TOK101.d
Method tune_low.m
Sample Name TOK101
Comment MeOH

Acquisition Date 08.02.2019 14:05:29

Operator
Instrument / Ser# Bruker Customer
microTOF 10223

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	Source



Mass Spectrum Report

Analysis Info

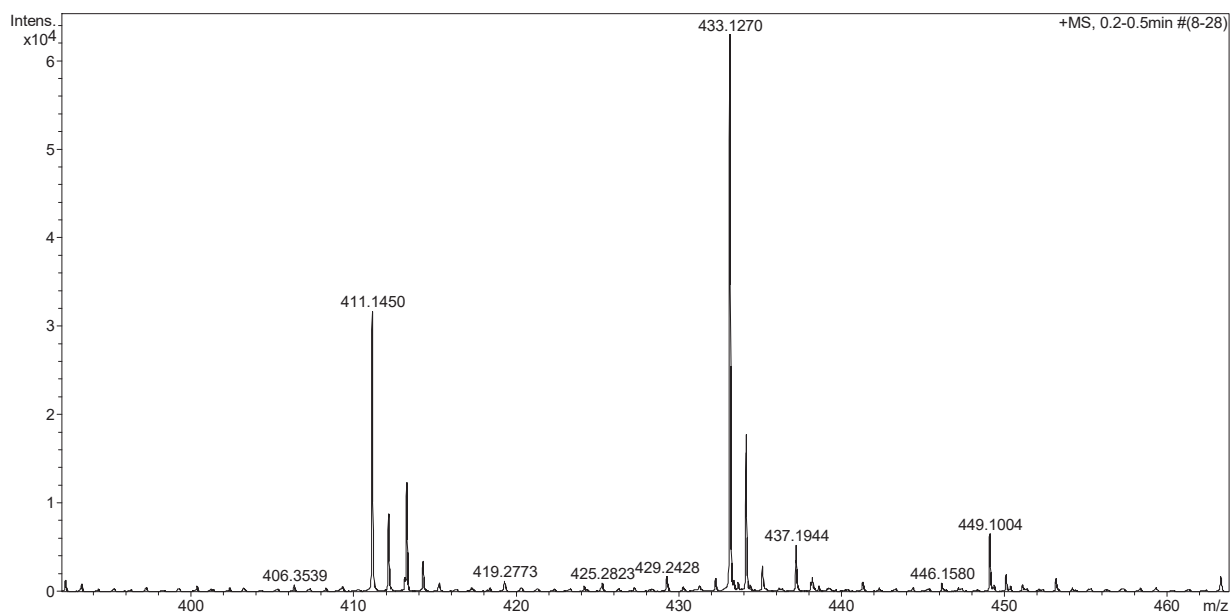
Analysis Name D:\Data\2018\december\3\TOK71.d
Method tune_low.m
Sample Name TOK71
Comment MeOH 50v

Acquisition Date 03.12.2018 13:57:39

Operator
Instrument / Ser# Bruker Customer
microTOF 10223

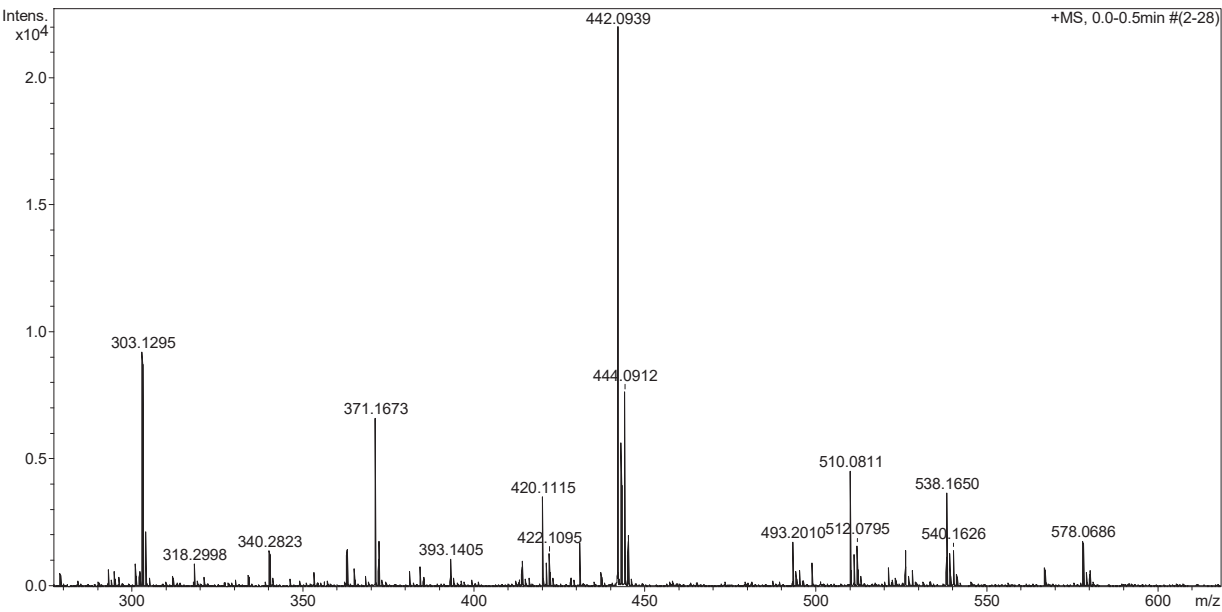
Acquisition Parameter

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	Source



Mass Spectrum Report

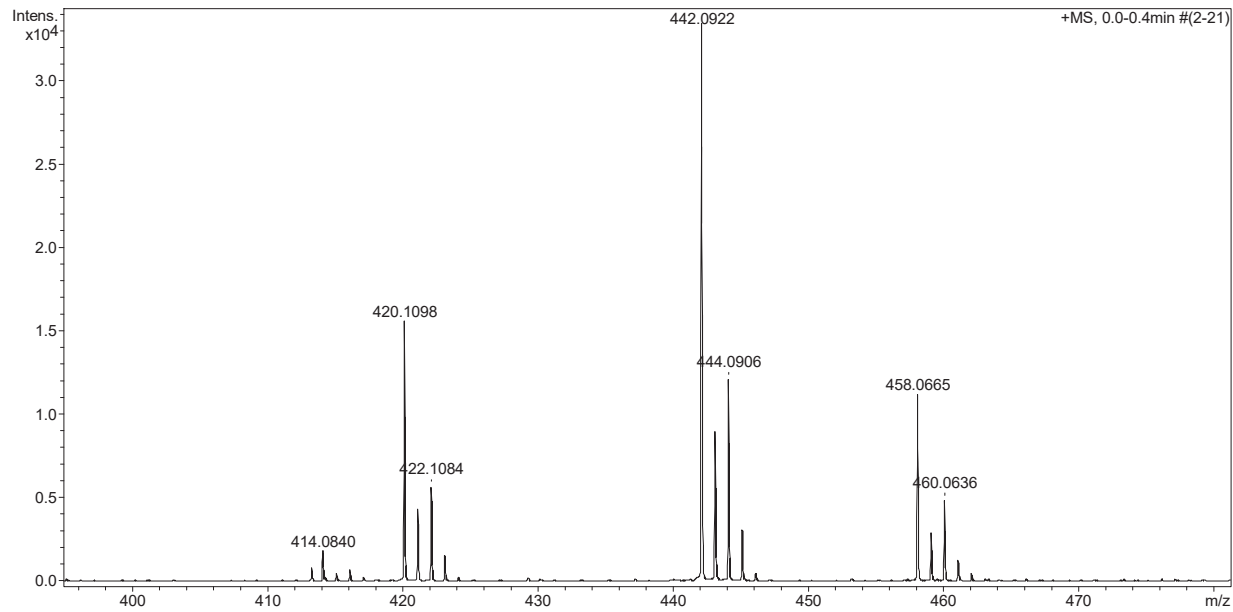
Analysis Info				Acquisition Date		21.01.2019 14:21:16	
Analysis Name	D:\Data\2019\january\21\TOK64.d			Operator	Bruker Customer		
Method	tune_low.m			Instrument / Ser#	microTOF 10223		
Sample Name	TOK64						
Comment	MeOH						
Acquisition Parameter							
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	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	Source		



5g

Mass Spectrum Report

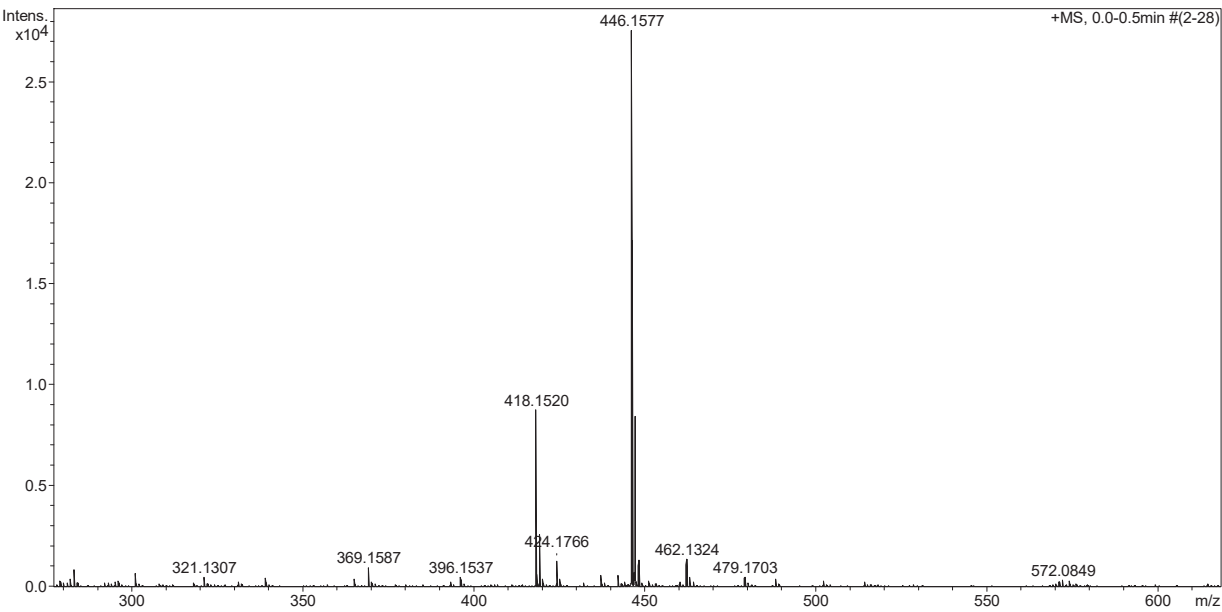
Analysis Info				Acquisition Date		24.05.2019 13:43:53	
Analysis Name	D:\Data\Data\2019\may\24\TOK-100.d			Operator		Bruker Customer	
Method	tune_low.m			Instrument / Ser#		microTOF 10223	
Sample Name	TOK-100						
Comment	MeOH						
Acquisition Parameter							
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.0 Bar		
Focus	Not active			Set Dry Heater	180 °C		
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	8.0 l/min		
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source		



5h

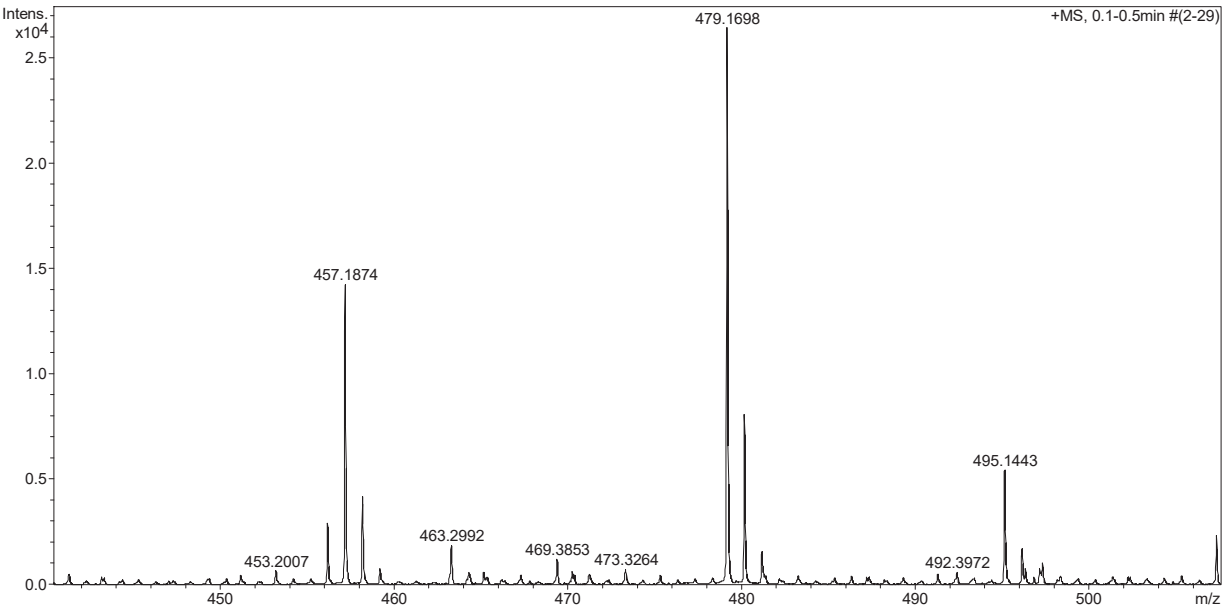
Mass Spectrum Report

Analysis Info				Acquisition Date	21.01.2019 14:34:19	
Analysis Name	D:\Data\2019\january\21\TOK72.d			Operator	Bruker Customer	
Method	tune_low.m			Instrument / Ser#	microTOF 10223	
Sample Name	TOK72					
Comment	MeOH 300v					
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	Source	



Mass Spectrum Report

Analysis Info				Acquisition Date		03.12.2018 13:40:50	
Analysis Name	D:\Data\2018\december\3\TOK63.d			Operator		Bruker Customer	
Method	tune_low.m			Instrument / Ser#		microTOF 10223	
Sample Name	TOK63						
Comment	MeOH 50v						
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	Source		



Display Report

Analysis Info

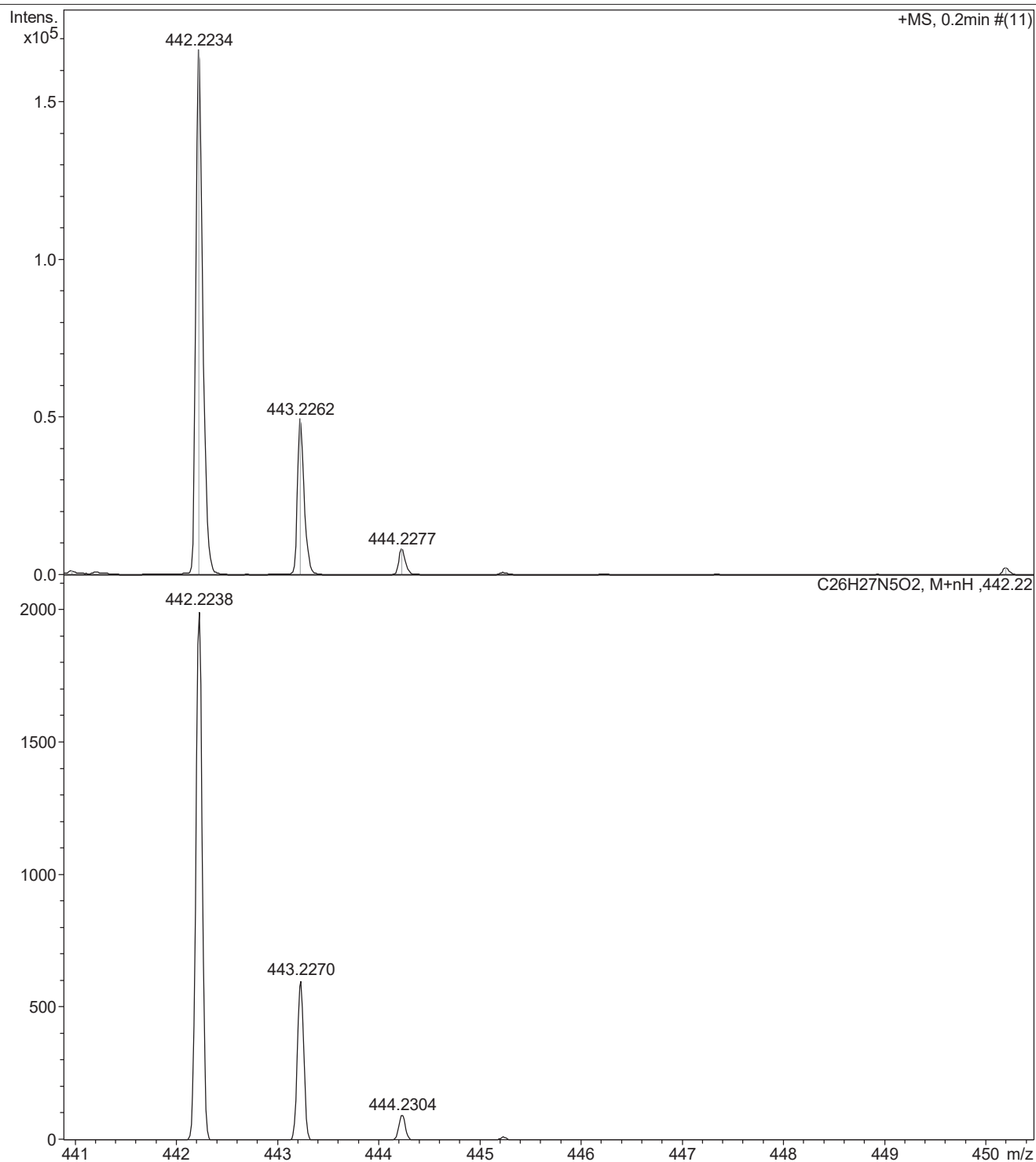
Analysis Name D:\Data\2021\june\22\TOK_141000001.d
Method tune_low.m
Sample Name
Comment

Acquisition Date 22.06.2021 10:51:23

Operator Bruker Customer
Instrument / Ser# microTOF 10223

Acquisition Parameter

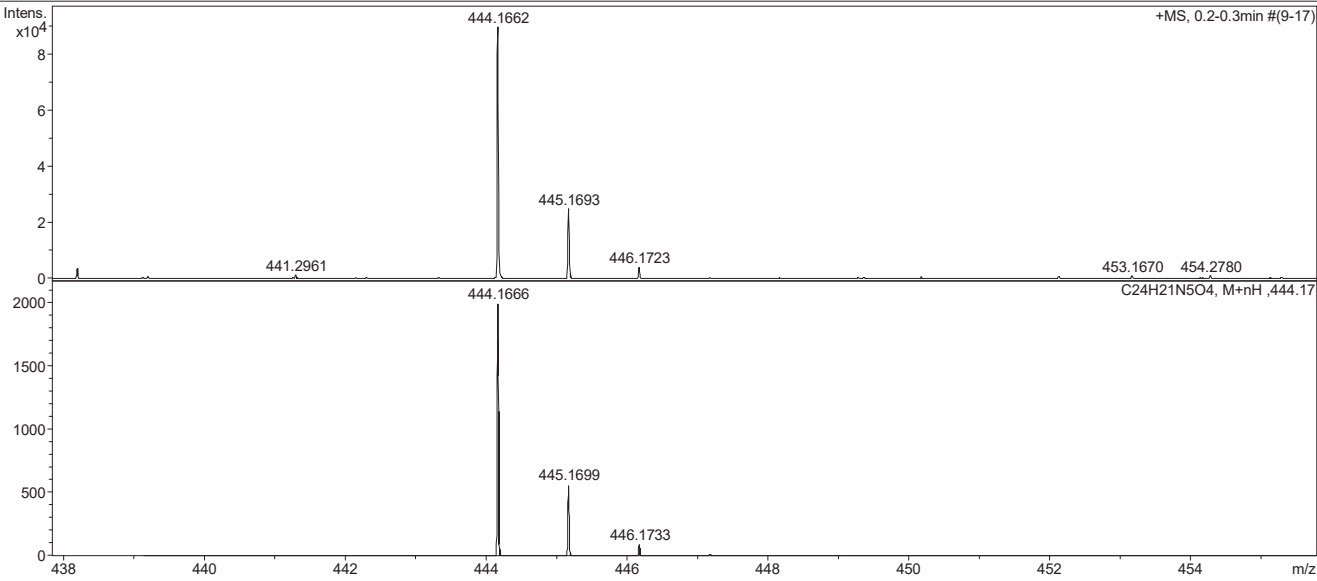
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Focus	Not active			Set Dry Heater	180 °C
Scan Begin	100 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	1000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Display Report

Analysis Info		Acquisition Date		17-Feb-22 12:13:32	
Analysis Name	D:\Data\Work\2022\02\17\GAI_18.d	Operator		BDAL@DE	
Method	20211118_tune_low_pos.m	Instrument / Ser#		maXis 62	
Sample Name					
Comment					

Acquisition Parameter					
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.3 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	100 m/z	Set Capillary	3200 V	Set Dry Gas	4.0 l/min
Scan End	1000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Display Report

Analysis Info

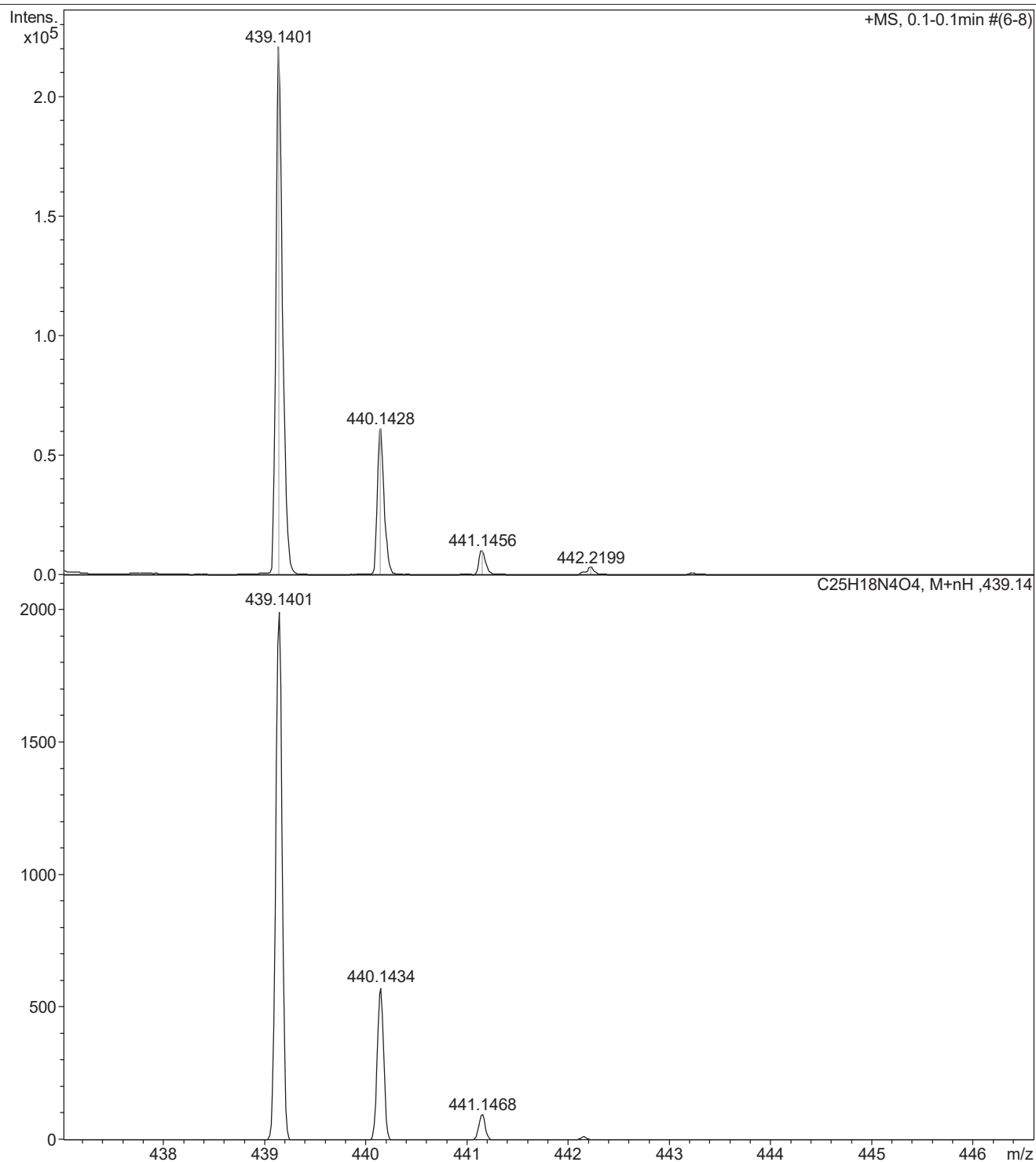
Analysis Name D:\Data\2021\june\22\TOK_156000001.d
Method tune_low.m
Sample Name
Comment

Acquisition Date 22.06.2021 10:57:16

Operator Bruker Customer
Instrument / Ser# microTOF 10223

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	100 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	1000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Display Report

Analysis Info

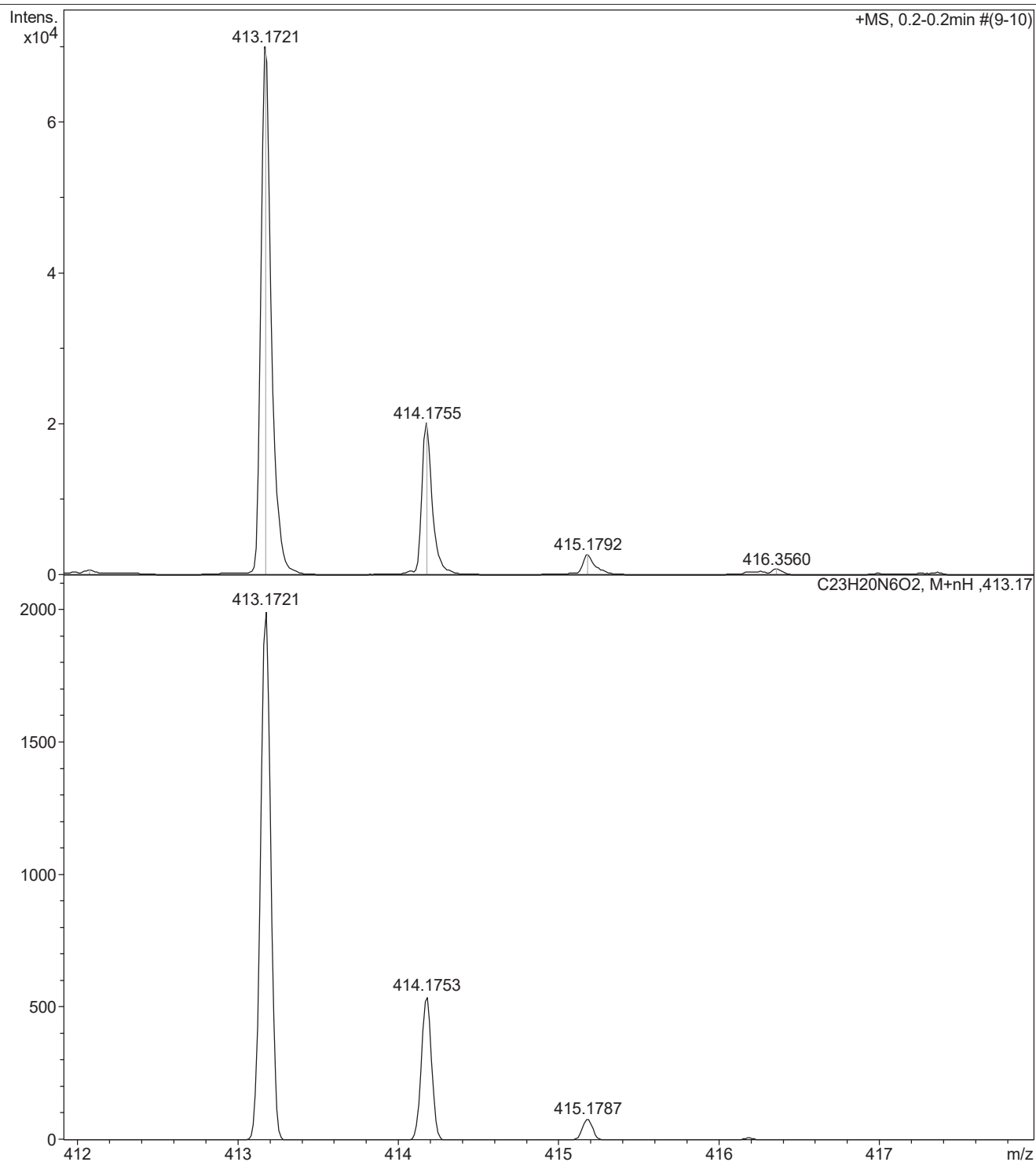
Analysis Name D:\Data\2021\june\22\TOK_157000001.d
Method tune_low.m
Sample Name
Comment

Acquisition Date 22.06.2021 11:00:19

Operator Bruker Customer
Instrument / Ser# microTOF 10223

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	100 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	1000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Mass Spectrum Report

Analysis Info

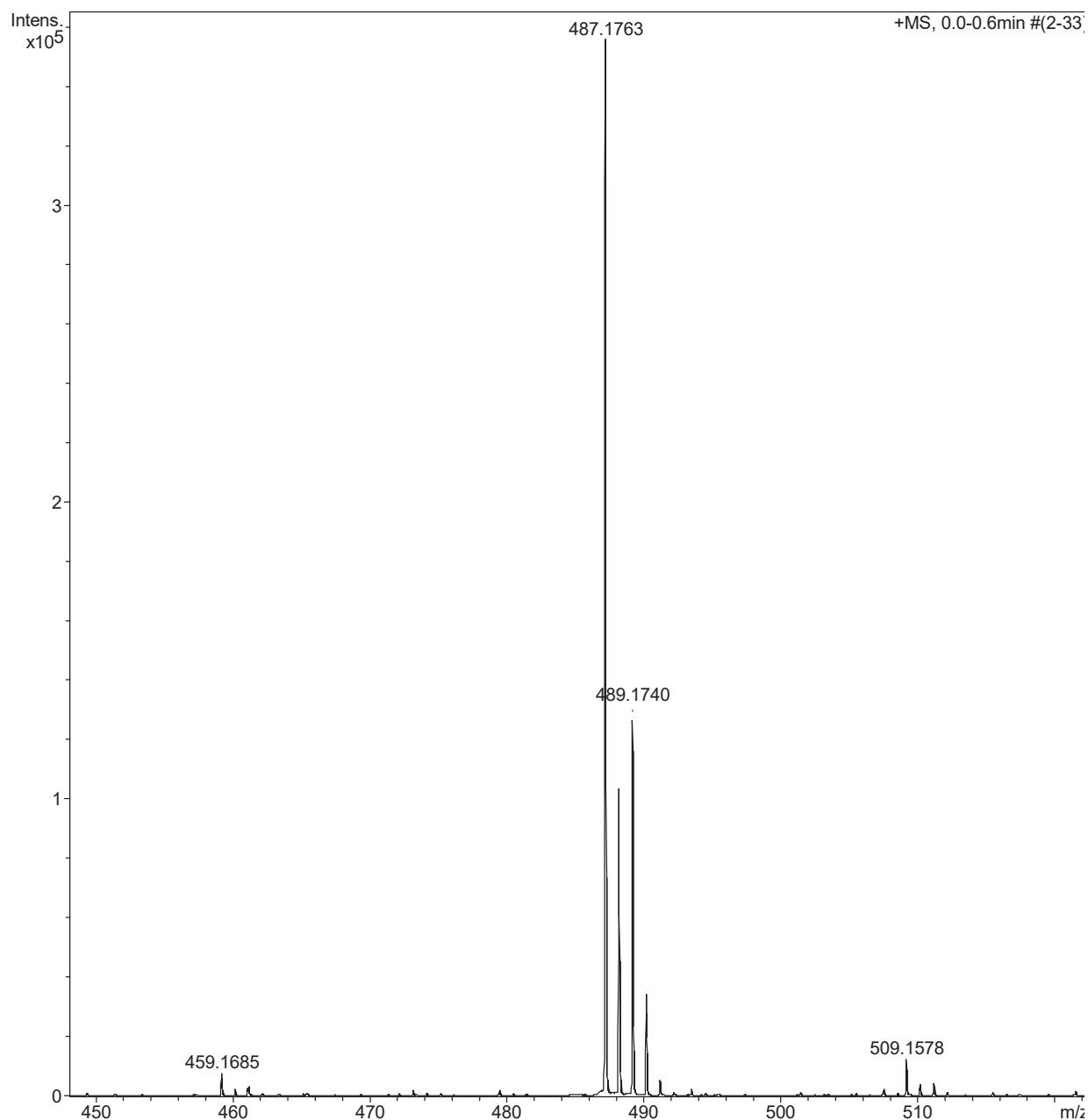
Analysis Name D:\Data\Data\2019\april\25\TOK134.d
Method tune_low.m
Sample Name TOK134
Comment MeOH

Acquisition Date 25.04.2019 10:24:31

Operator Bruker Customer
Instrument / Ser# micrOTOF 10223

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.0 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	8.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



Mass Spectrum Report

Analysis Info

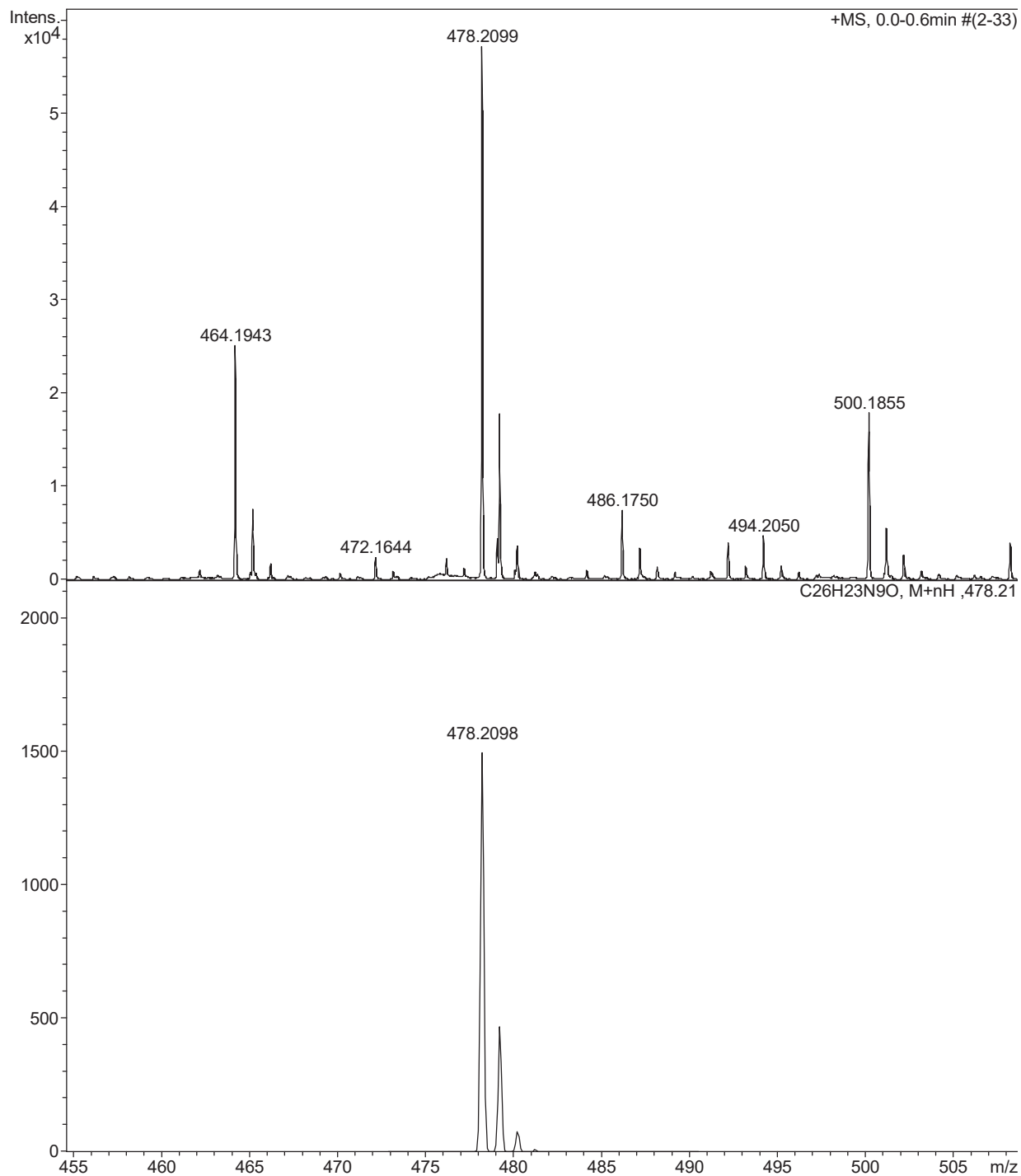
Analysis Name D:\Data\2019\december\20\GAI954.d
Method tune_low.m
Sample Name GAI954
Comment

Acquisition Date 20.12.2019 18:13:57

Operator Bruker Customer
Instrument / Ser# microTOF 10223

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	Source



Mass Spectrum Report

Analysis Info

Analysis Name D:\Data\2019\december\23\GAI958.d
Method tune_low.m
Sample Name GAI958
Comment MeOH

Acquisition Date 23.12.2019 9:47:53

Operator Bruker Customer
Instrument / Ser# microTOF 10223

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	Source

