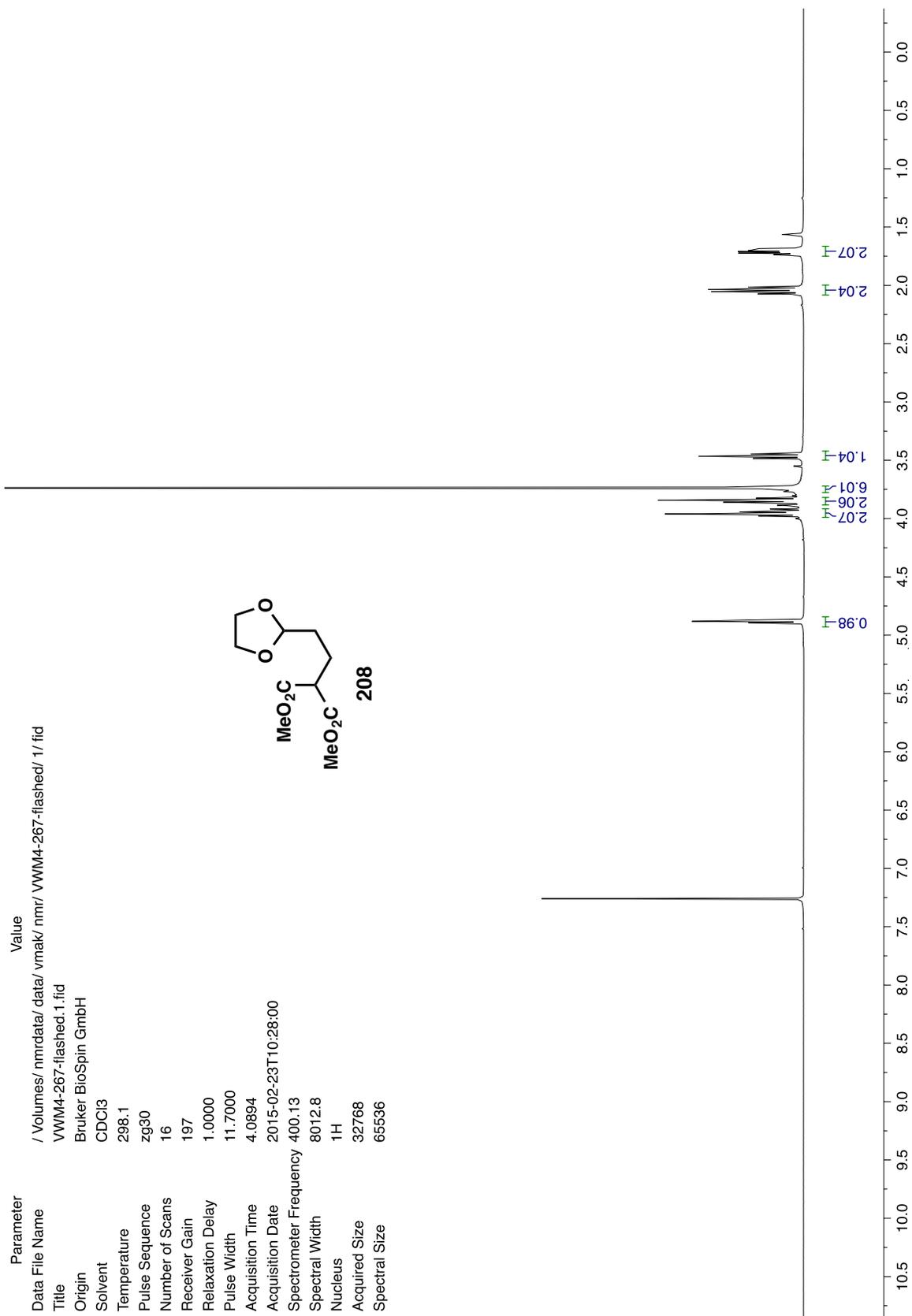
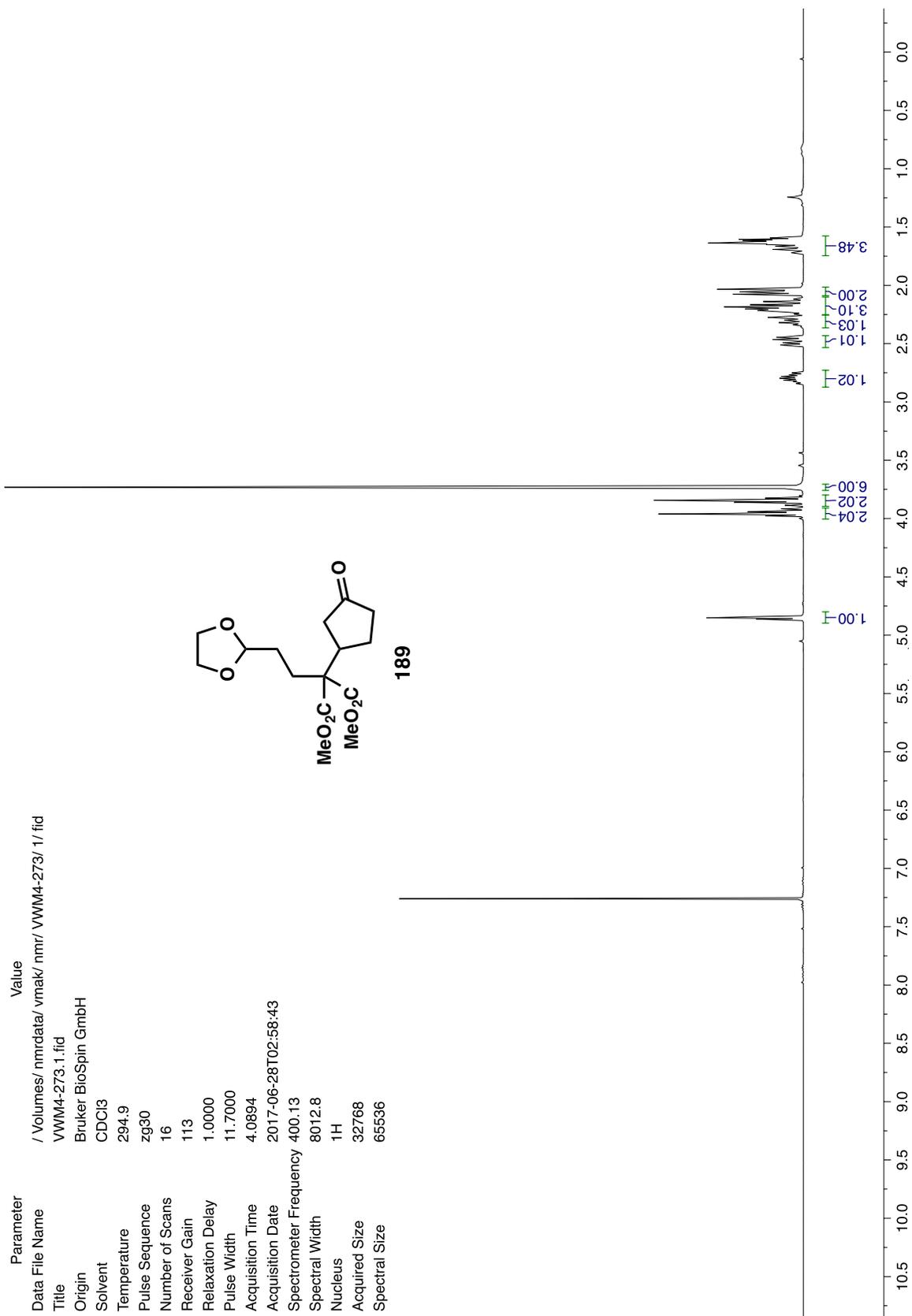


## ***Appendix 2***

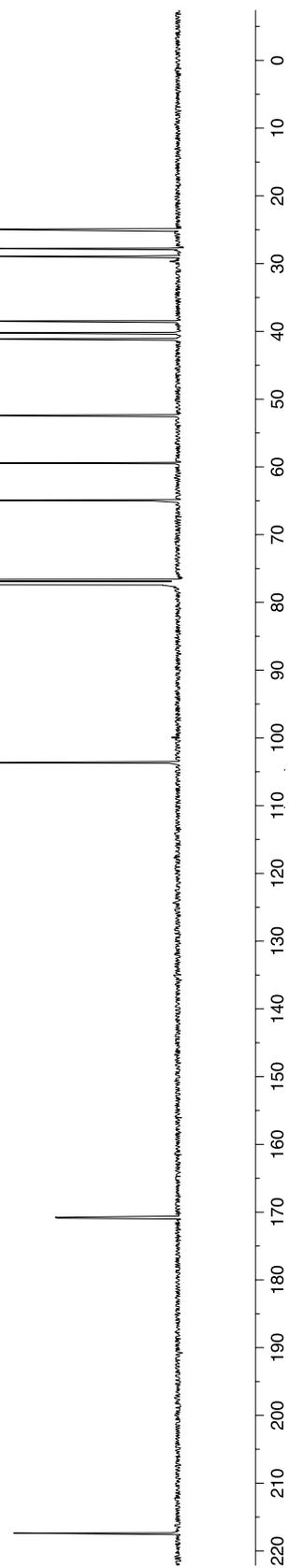
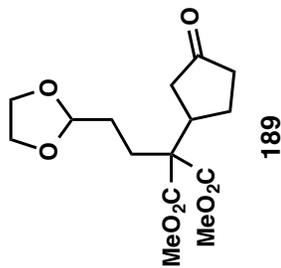
*Spectra Relevant to Chapter 3:*

*Synthetic Studies towards the C<sub>19</sub>-Diterpenoid Alkaloid Talatisamine*



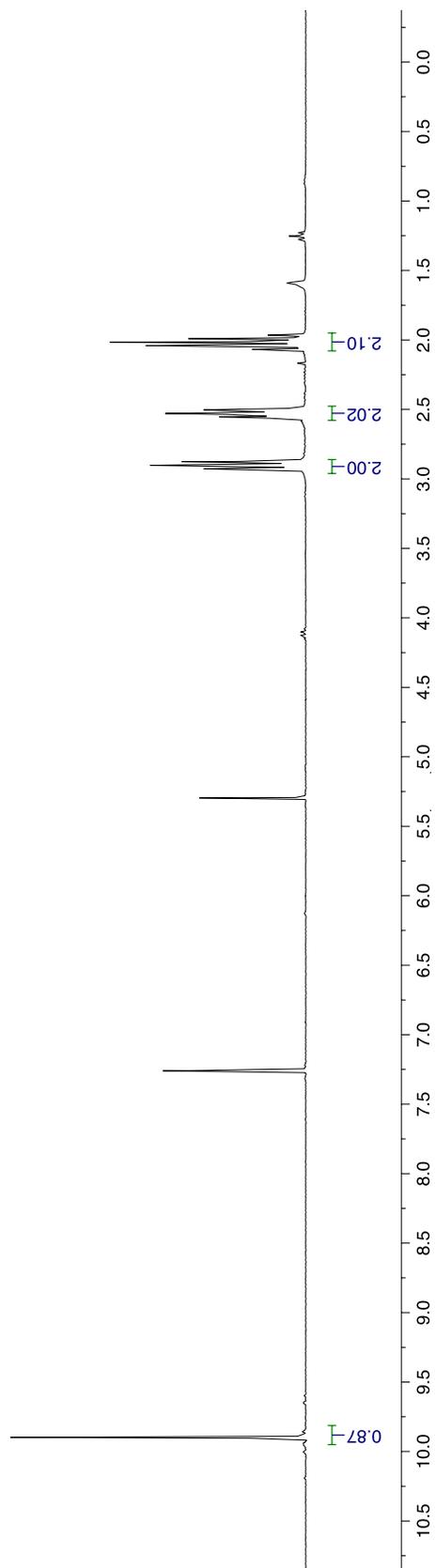
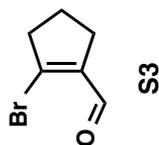


Parameter	Value
Data File Name	/ Volumes/ nmrdata/ vmak/ nmr/ VWM4-273/ 2/ fid
Title	VWM4-273.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	295.0
Pulse Sequence	zgpg30
Number of Scans	1024
Receiver Gain	50
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.2976
Acquisition Date	2017-06-28T03:39:33
Spectrometer Frequency	100.62
Spectral Width	25252.5
Nucleus	<sup>13</sup> C
Acquired Size	32768
Spectral Size	65536



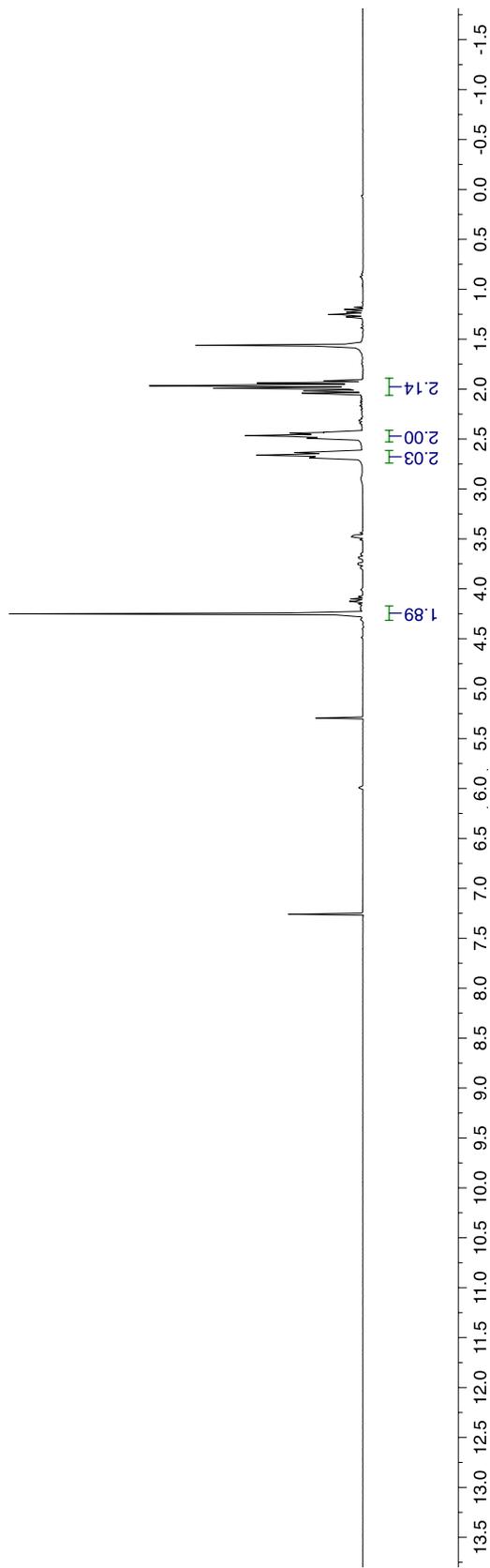
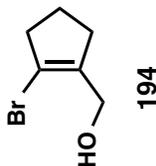
VM4-UZ Parameter Value  
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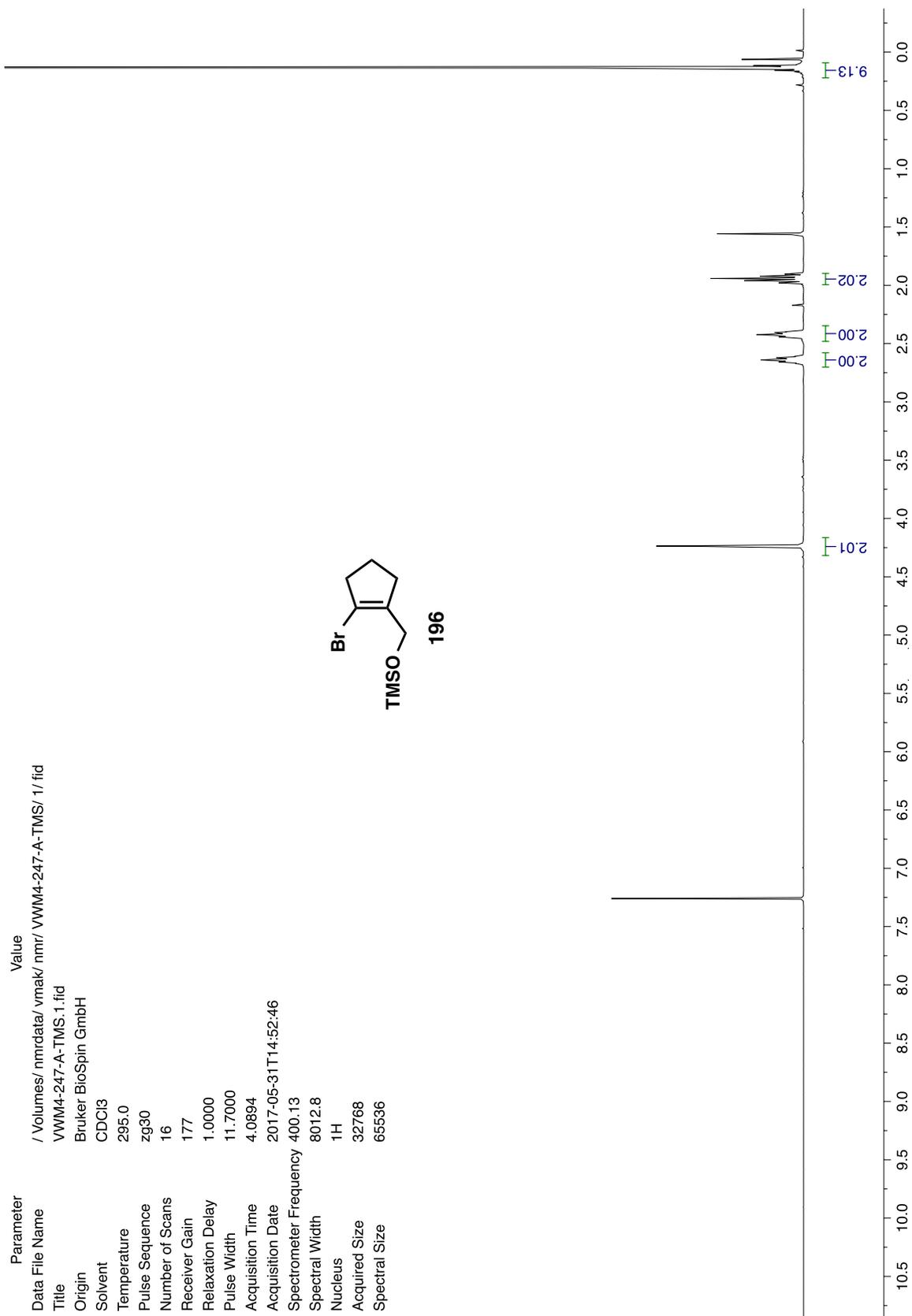
Data File Name PROTON01  
 Title Varian  
 Origin cdc13  
 Solvent 25.0  
 Temperature s2pul  
 Pulse Sequence 8  
 Number of Scans 26  
 Receiver Gain 1.0000  
 Relaxation Delay 0.0000  
 Pulse Width 2.4999  
 Acquisition Time 2014-07-29T08:18:45  
 Acquisition Date 300.09  
 Spectrometer Frequency 4796.2  
 Spectral Width 1H  
 Nucleus 11990  
 Acquired Size 65536  
 Spectral Size



VM4-039-18-12  
Parameter

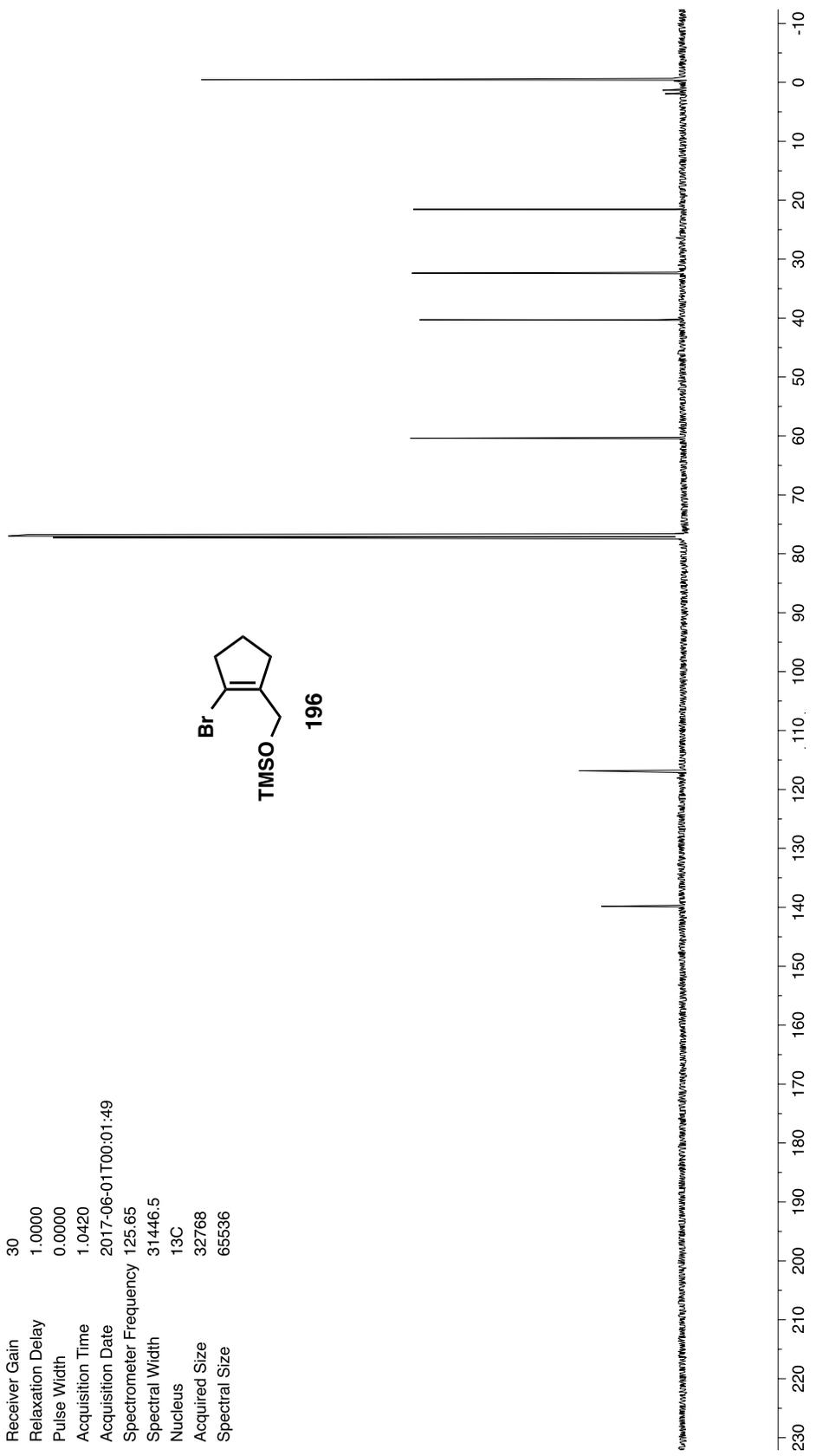
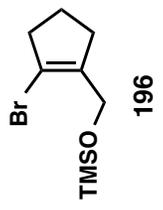
Parameter	Value
Data File Name	/Volumes/nmrdata-1/vmak/vnmrsys/data/VM4-039-18-12/PROTON01.fid/fid
Title	PROTON01
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	16
Receiver Gain	20
Relaxation Delay	1.0000
Pulse Width	0.0000
Acquisition Time	2.4999
Acquisition Date	2014-08-12T12:01:01
Spectrometer Frequency	300.09
Spectral Width	4796.2
Nucleus	1H
Acquired Size	11990
Spectral Size	65536

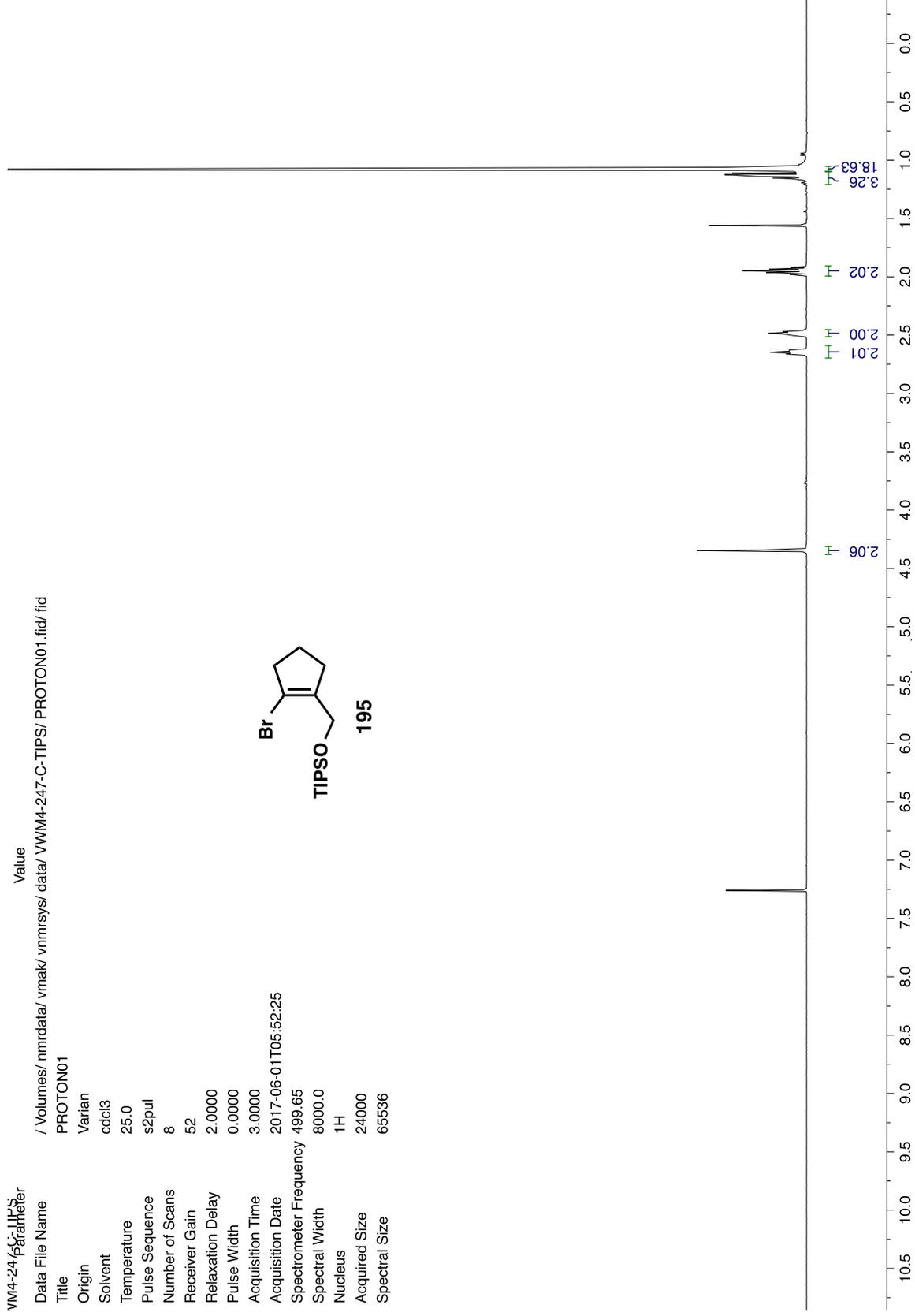




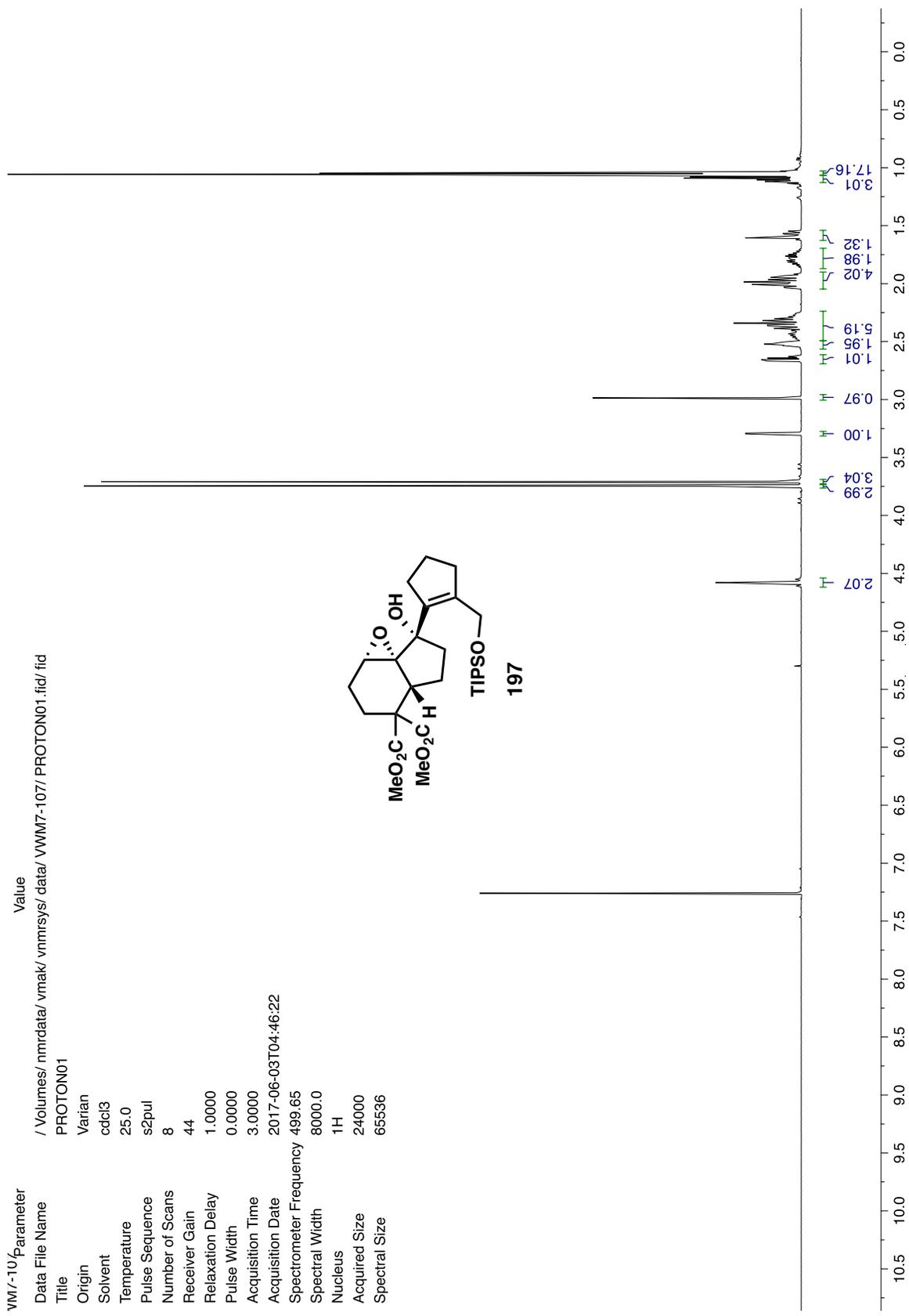
VM4-24  
<sup>13</sup>C NMR  
 Parameter

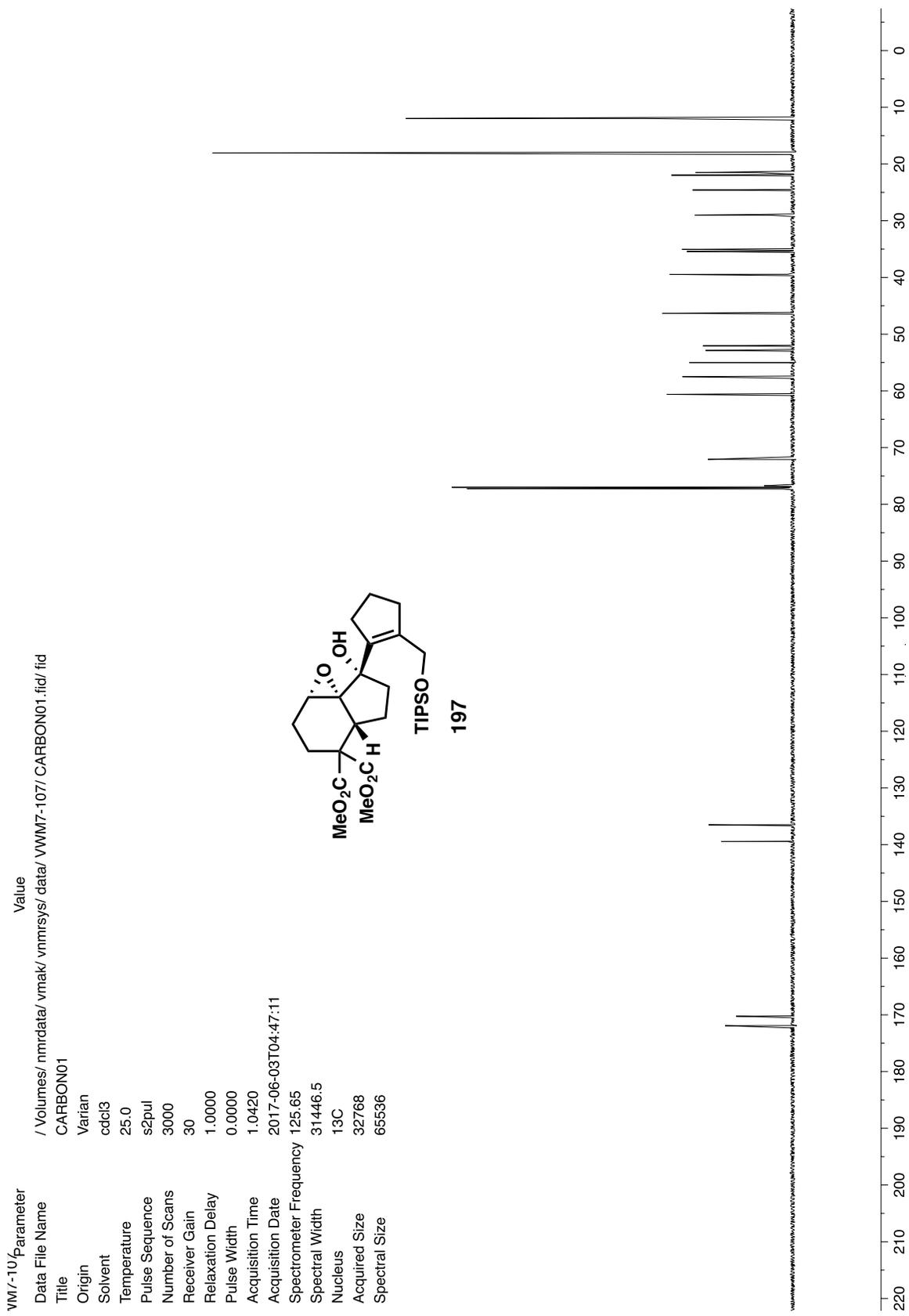
	Value
Data File Name	/Volumes/nmrdata/vmak/vnmrsys/data/VM4-247-A-TMS/CARBON01.fid/ fid
Title	CARBON01
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Number of Scans	5000
Receiver Gain	30
Relaxation Delay	1.0000
Pulse Width	0.0000
Acquisition Time	1.0420
Acquisition Date	2017-06-01T00:01:49
Spectrometer Frequency	125.65
Spectral Width	31446.5
Nucleus	<sup>13</sup> C
Acquired Size	32768
Spectral Size	65536





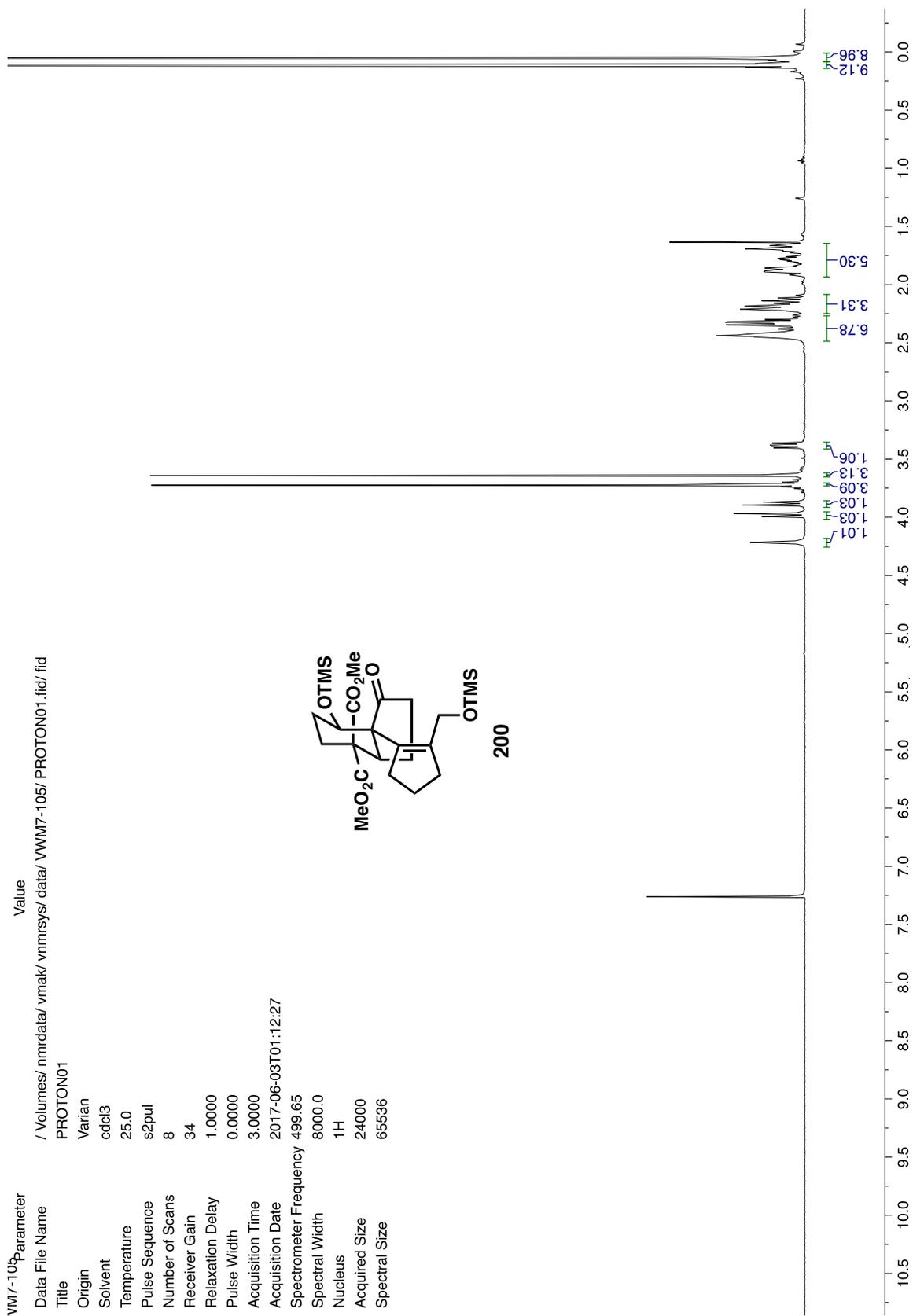




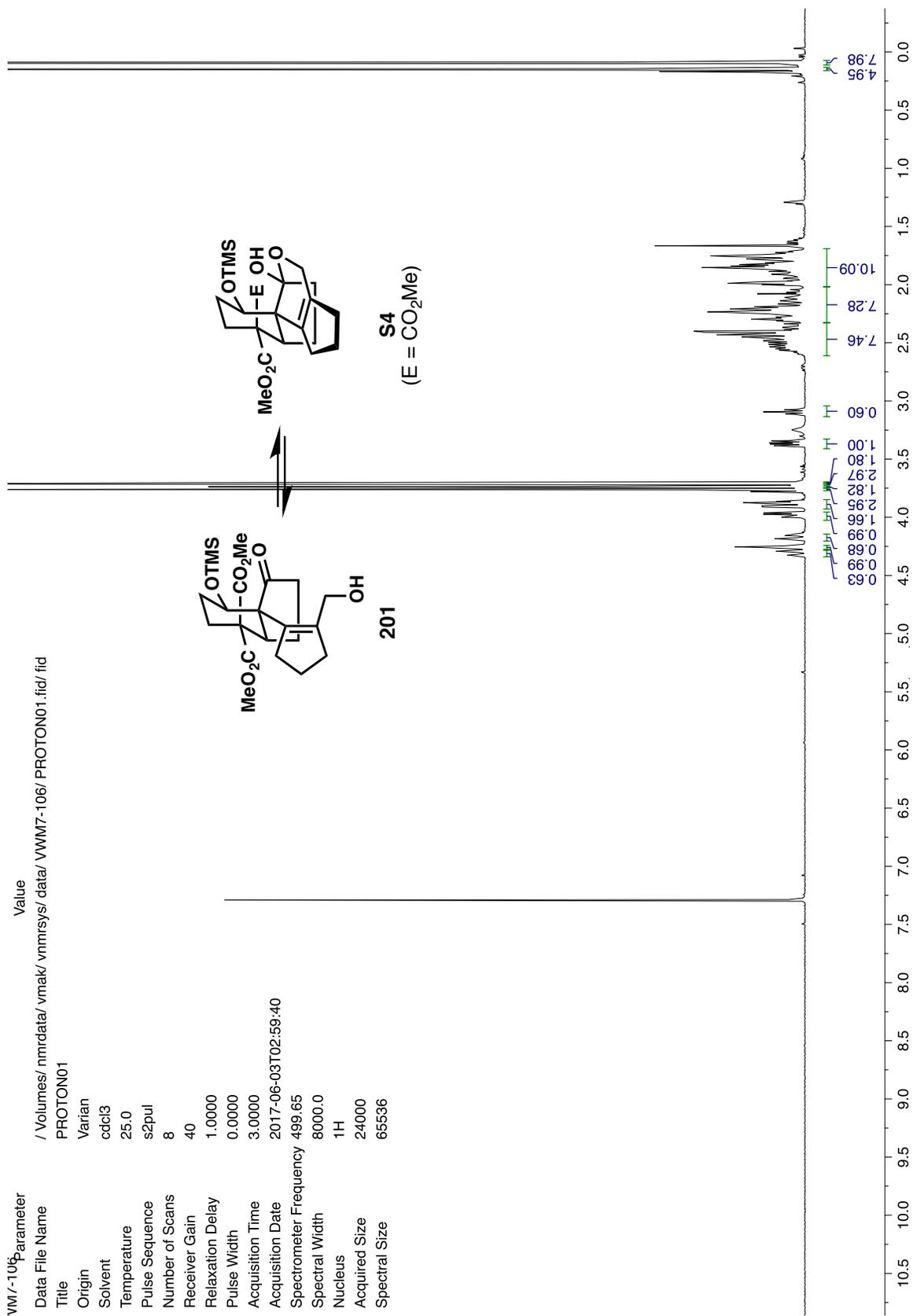


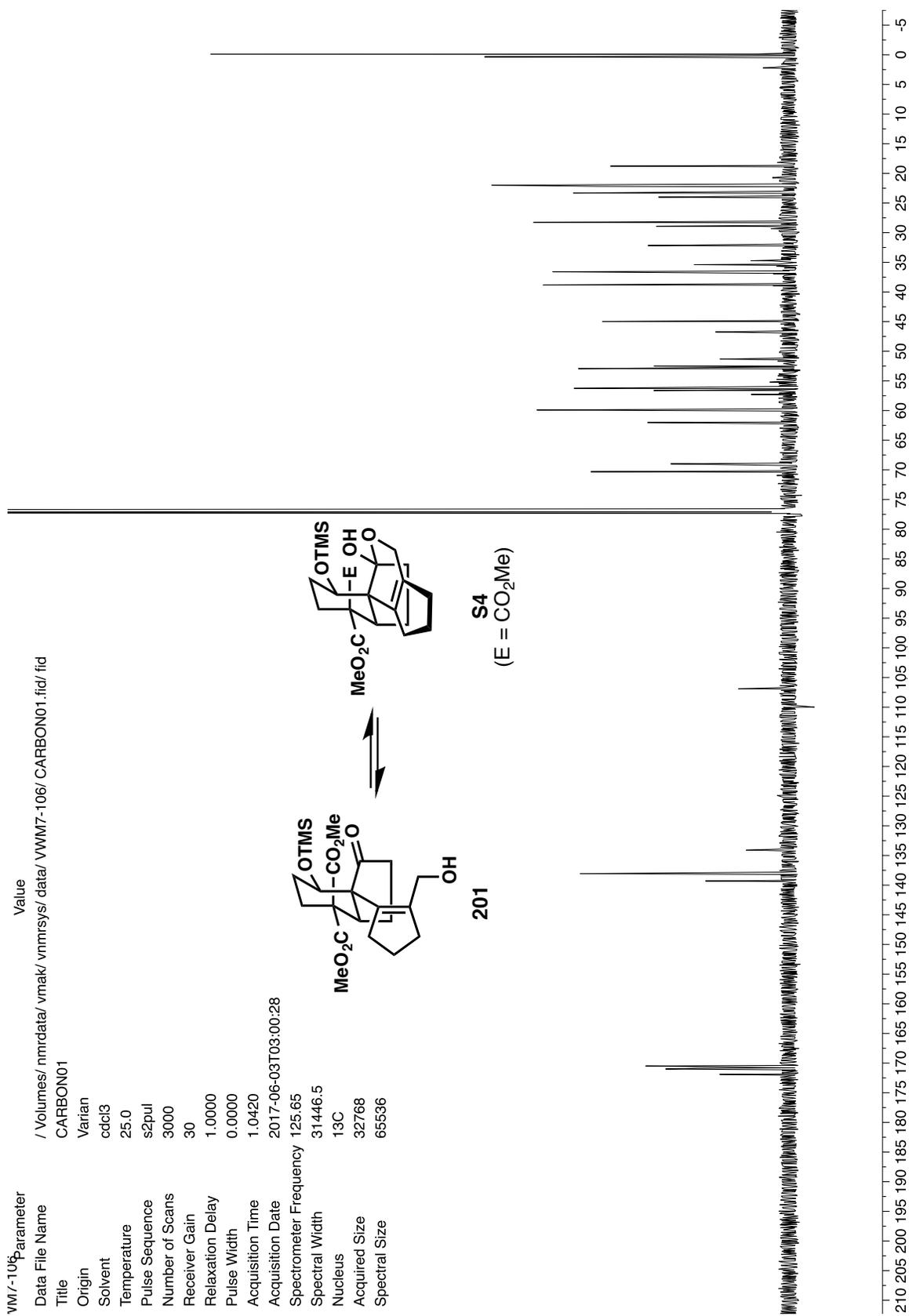


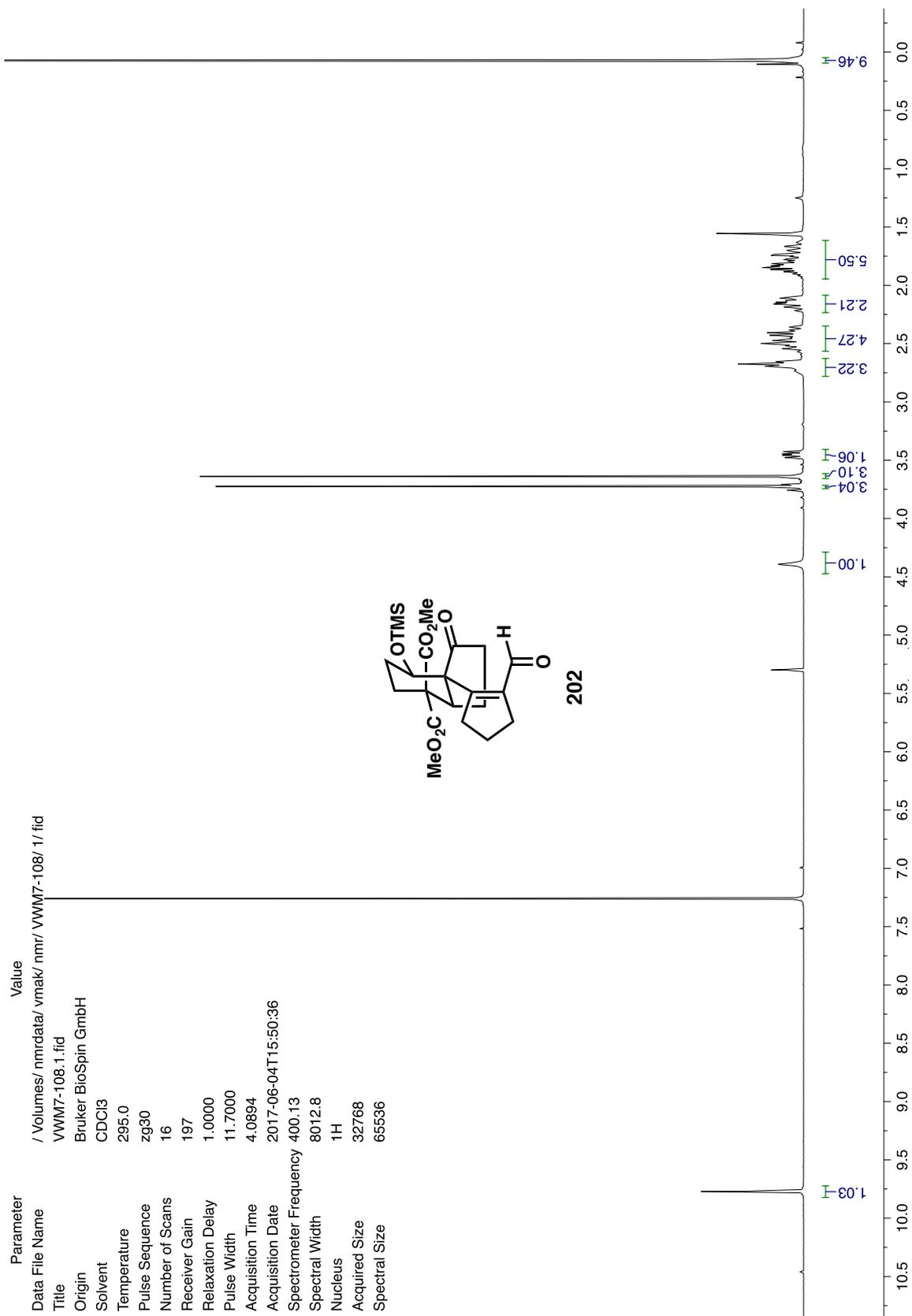


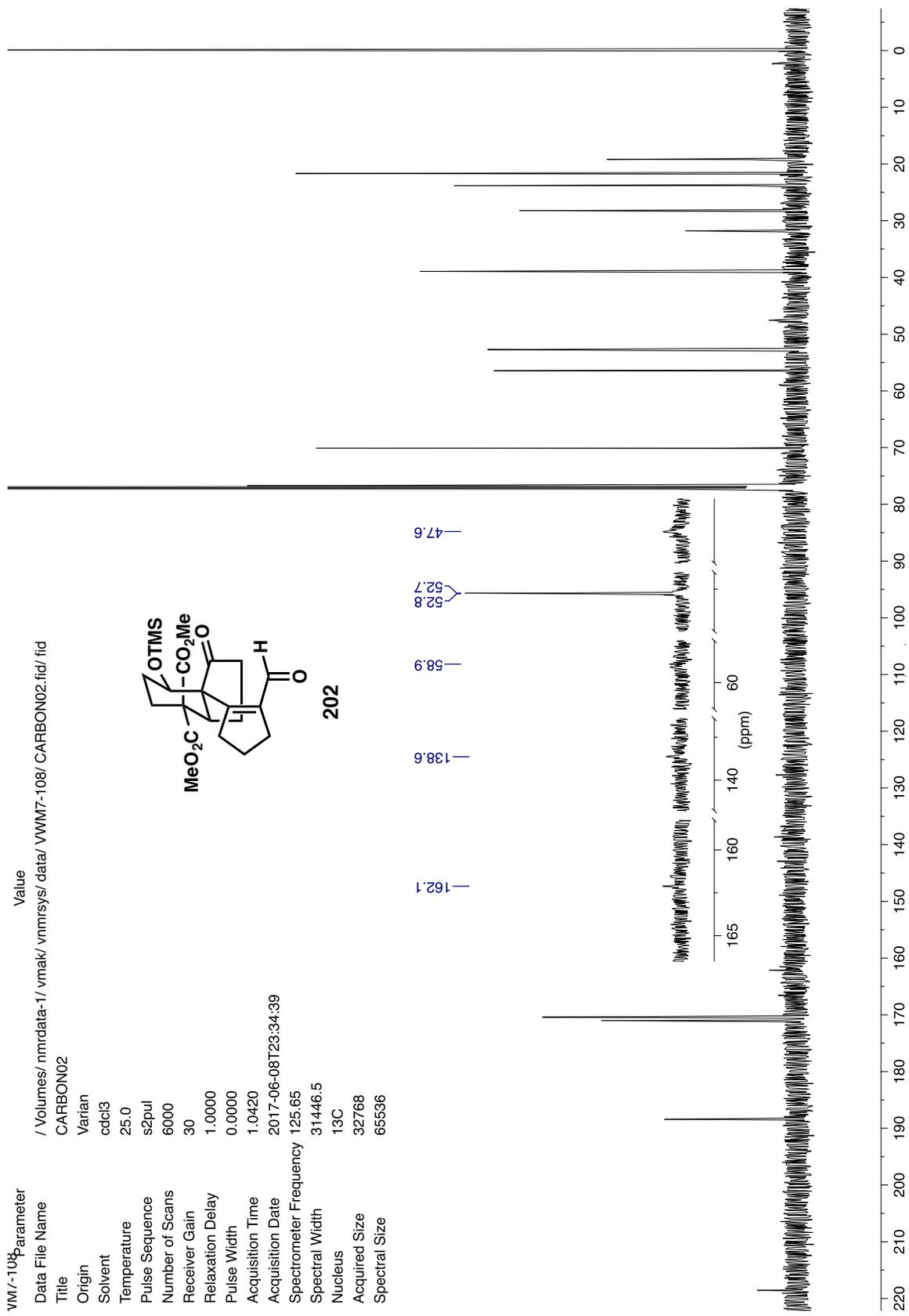


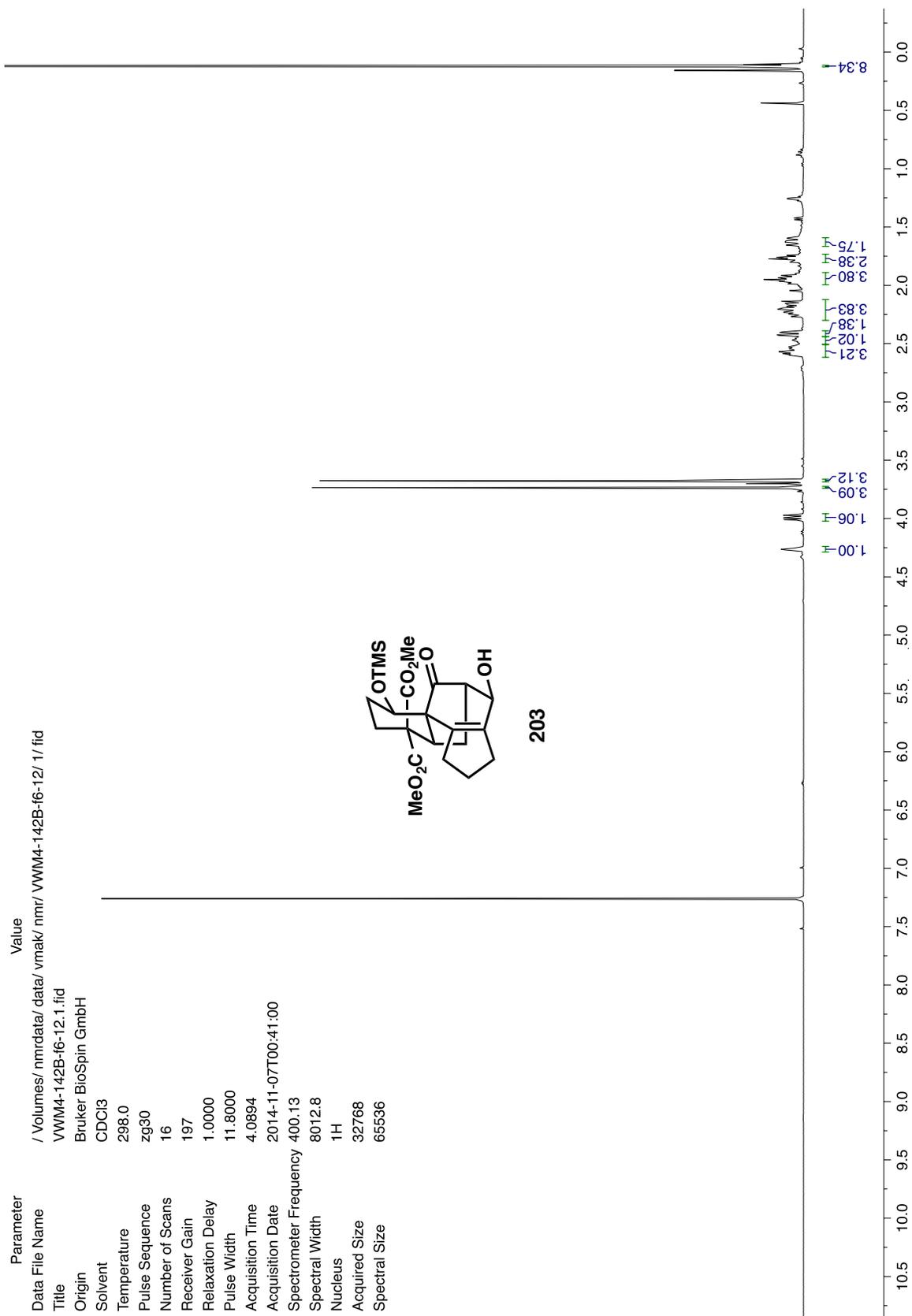


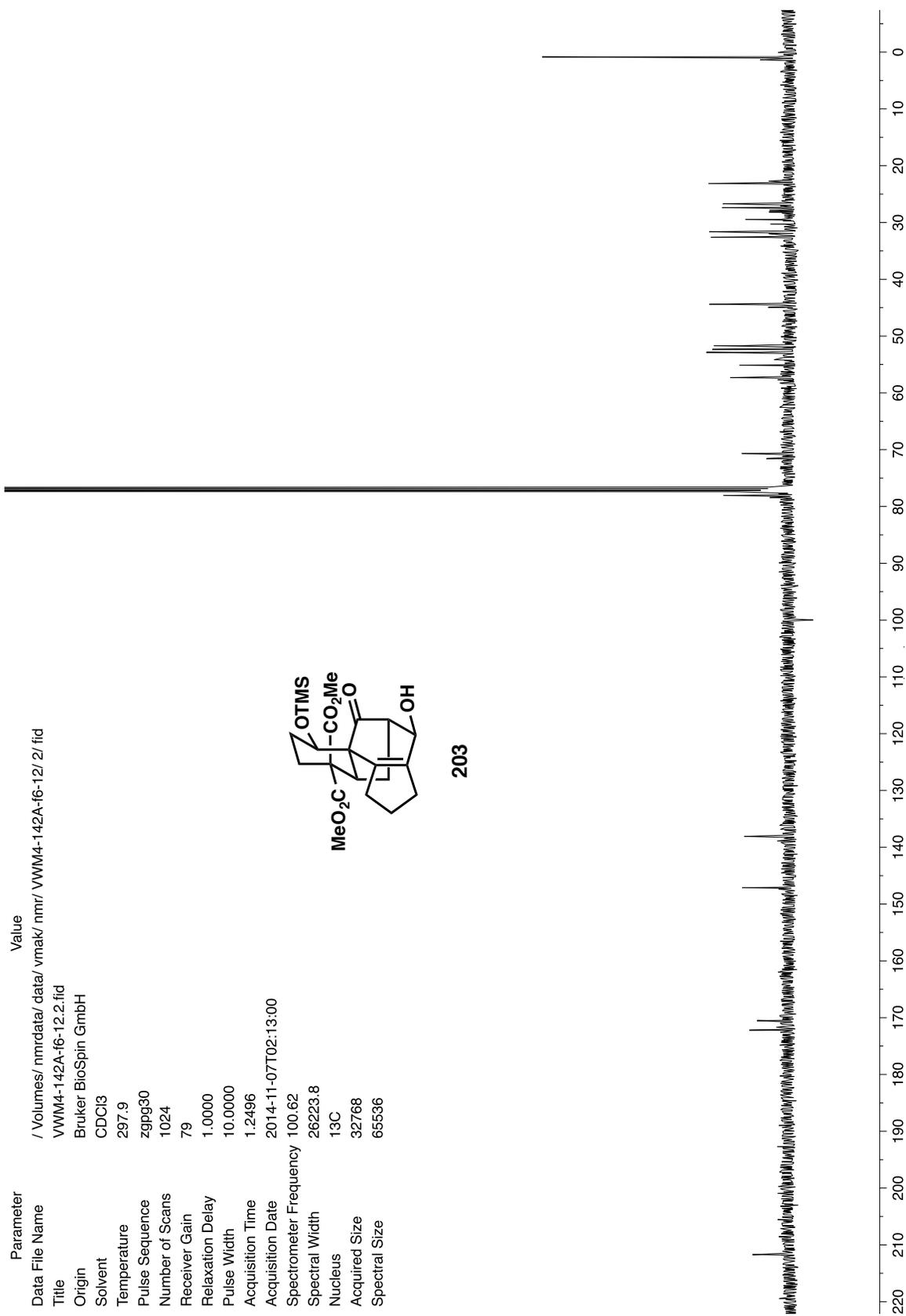


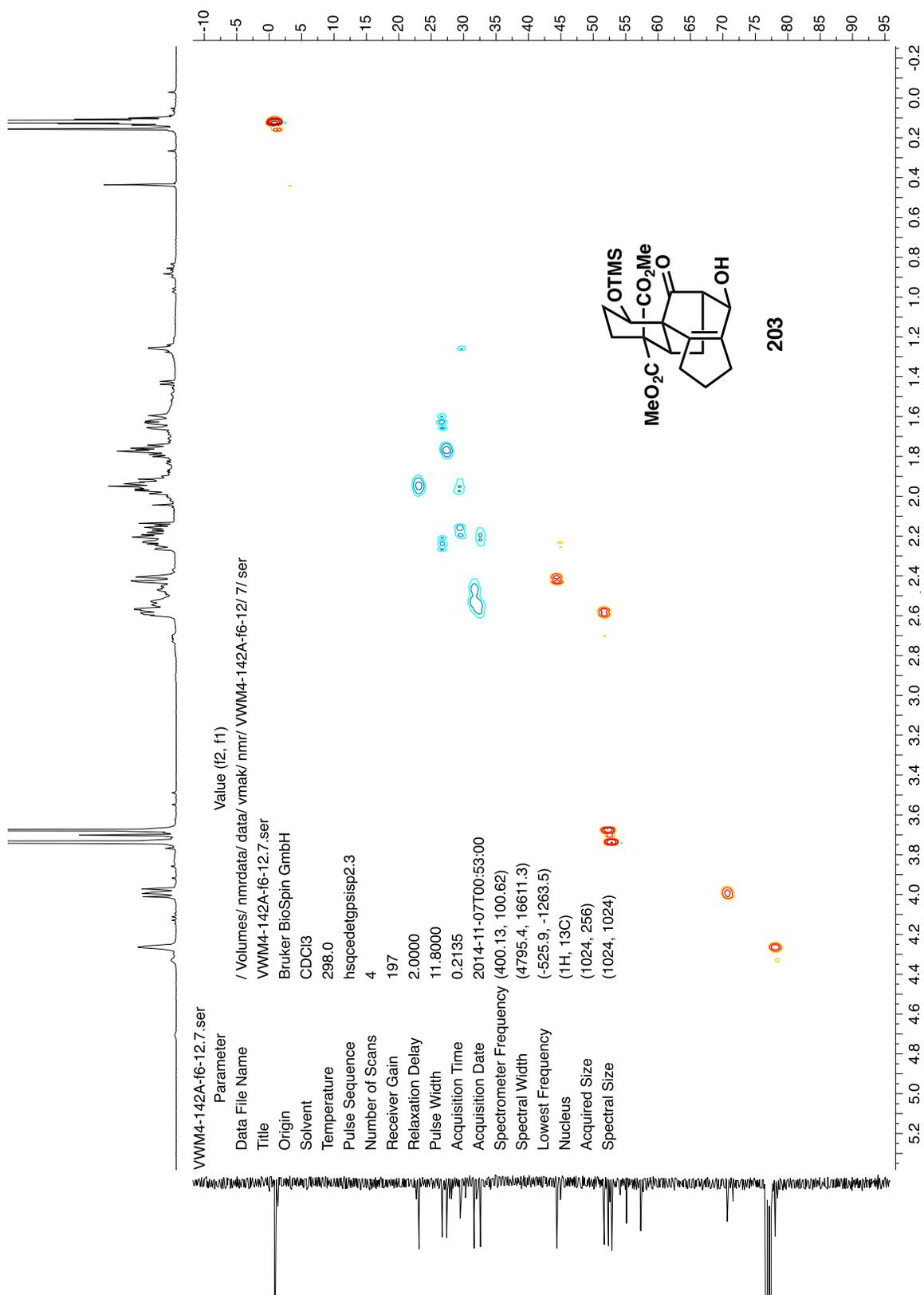


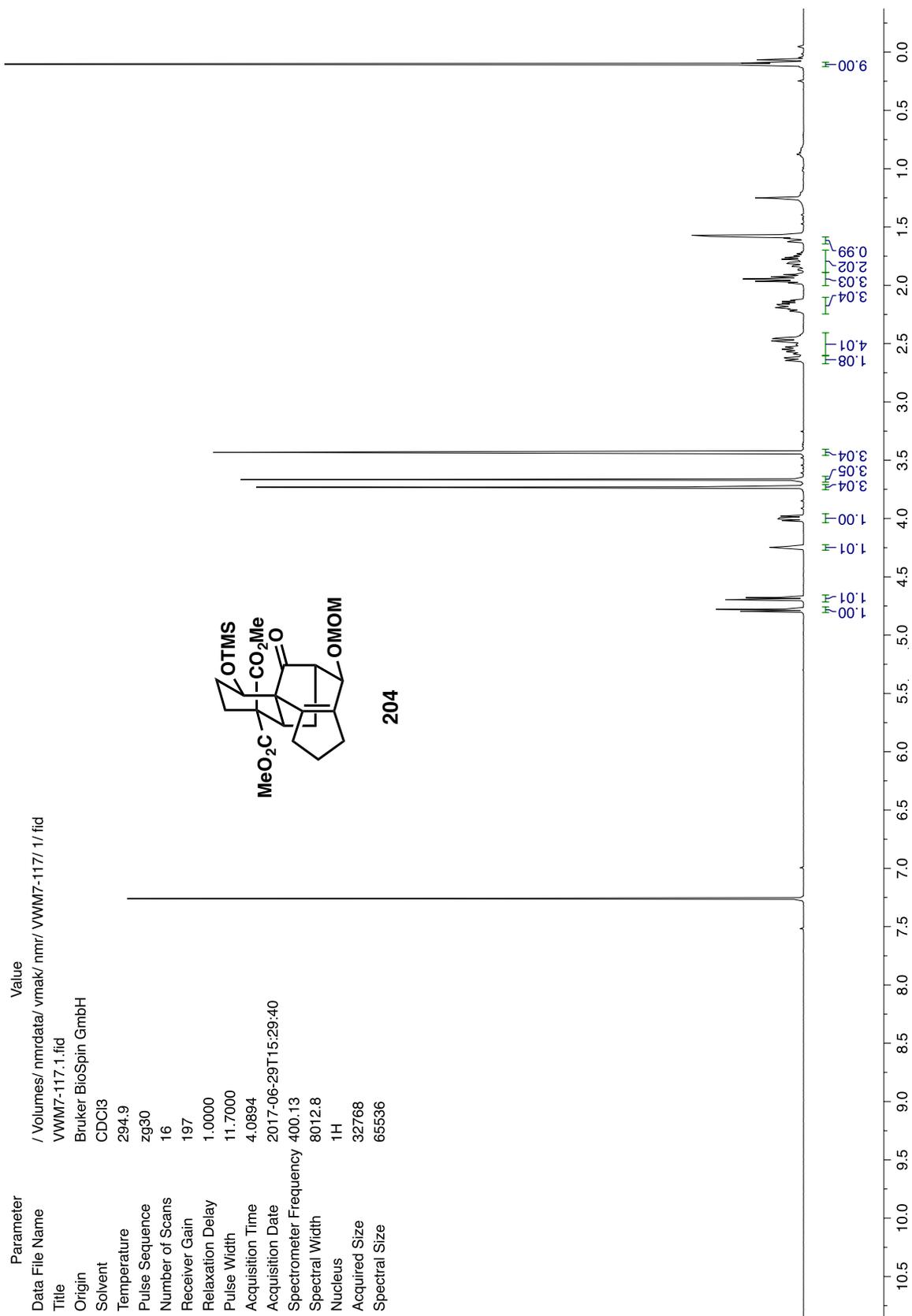


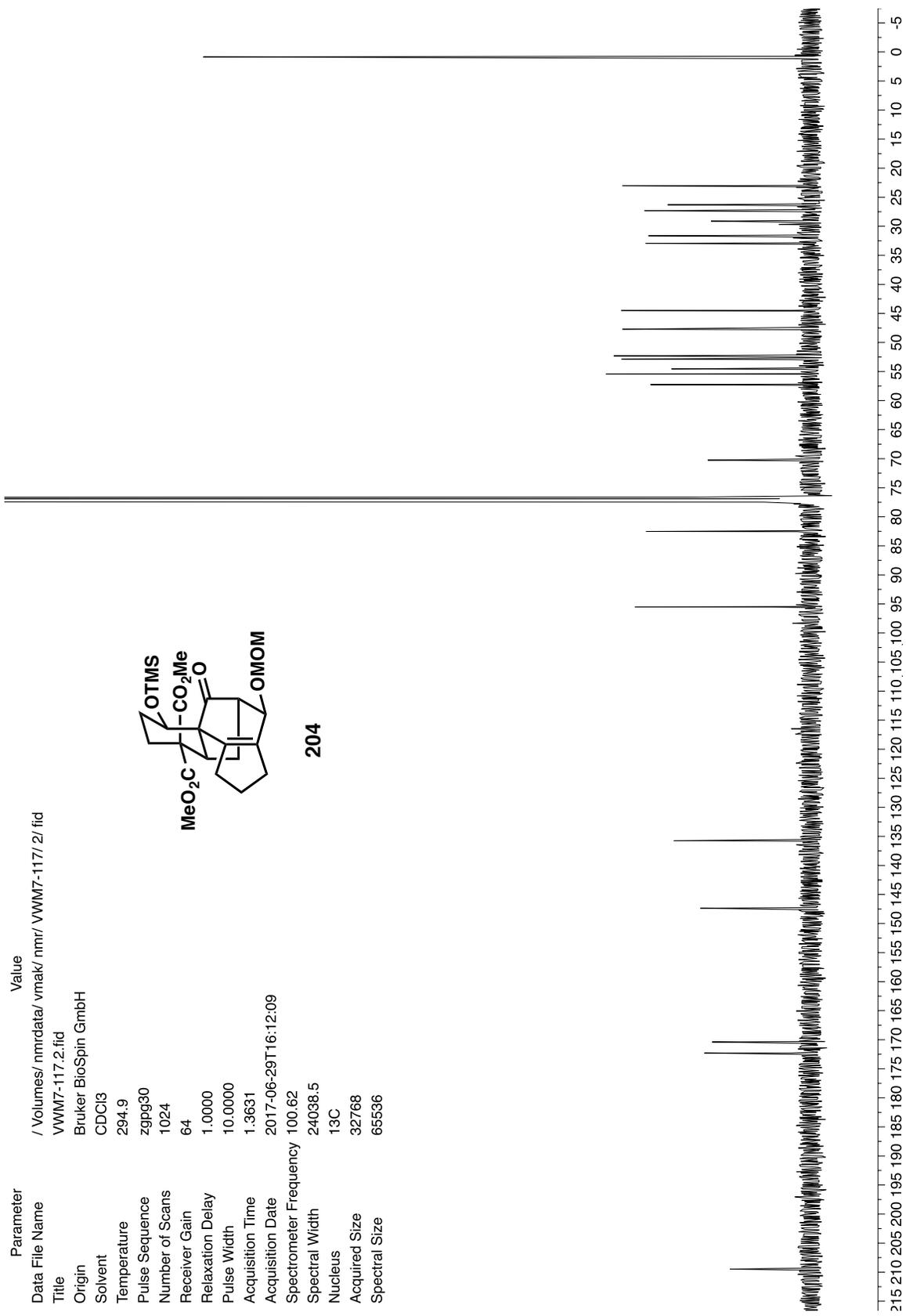






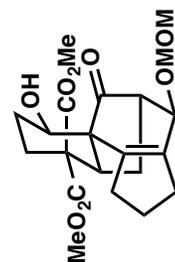




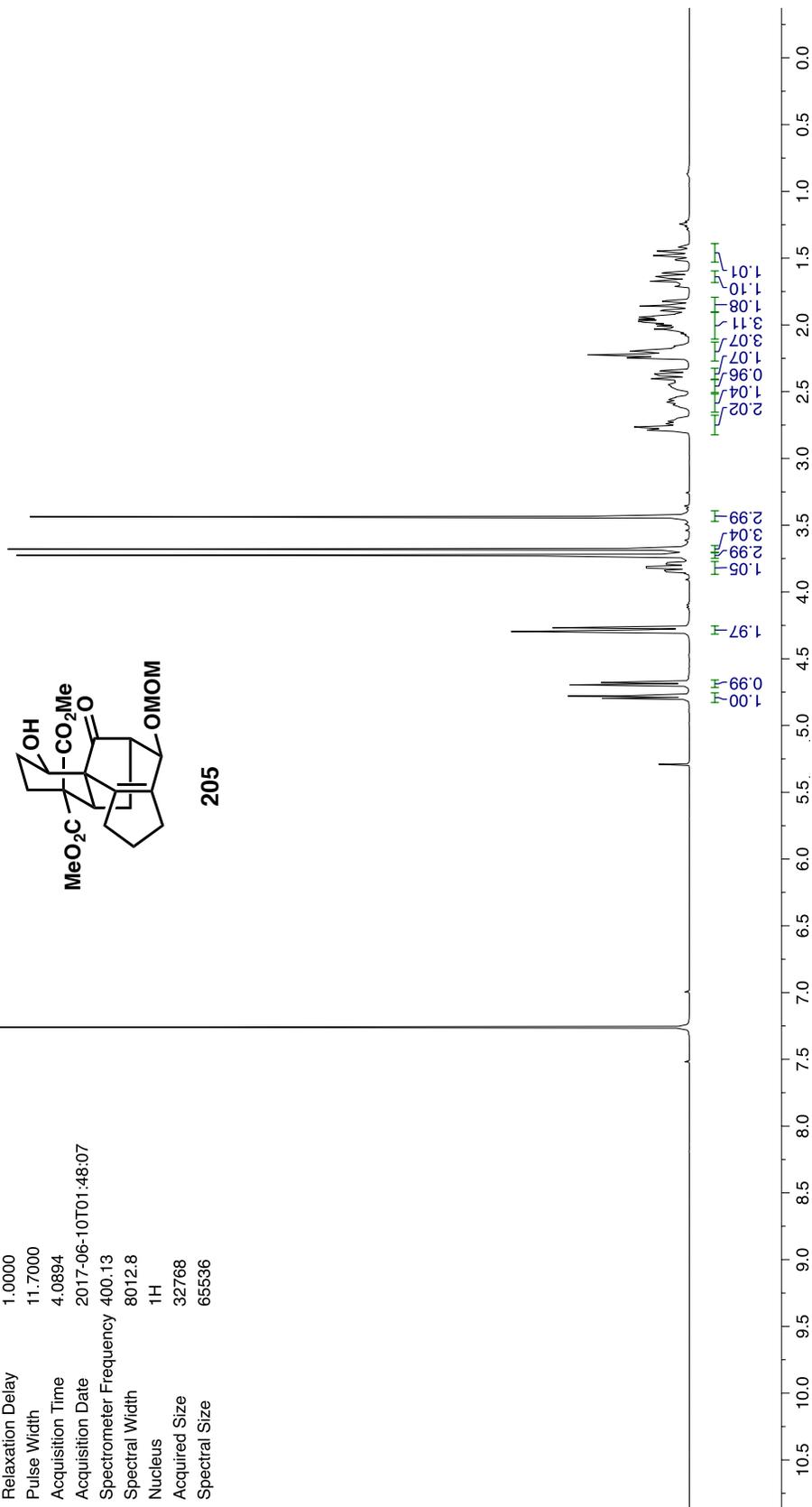


Parameter Value  
 Data File Name / Volumes/nmrdata/vmak/nmr/VWM5-014/ 2/ fid

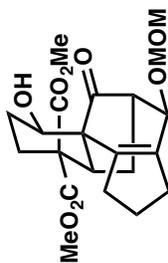
Title VWM5-014\_2.fid  
 Origin Bruker BioSpin GmbH  
 Solvent CDCl3  
 Temperature 294.9  
 Pulse Sequence zg30  
 Number of Scans 16  
 Receiver Gain 64  
 Relaxation Delay 1.0000  
 Pulse Width 11.7000  
 Acquisition Time 4.0894  
 Acquisition Date 2017-06-10T01:48:07  
 Spectrometer Frequency 400.13  
 Spectral Width 8012.8  
 Nucleus 1H  
 Acquired Size 32768  
 Spectral Size 65536



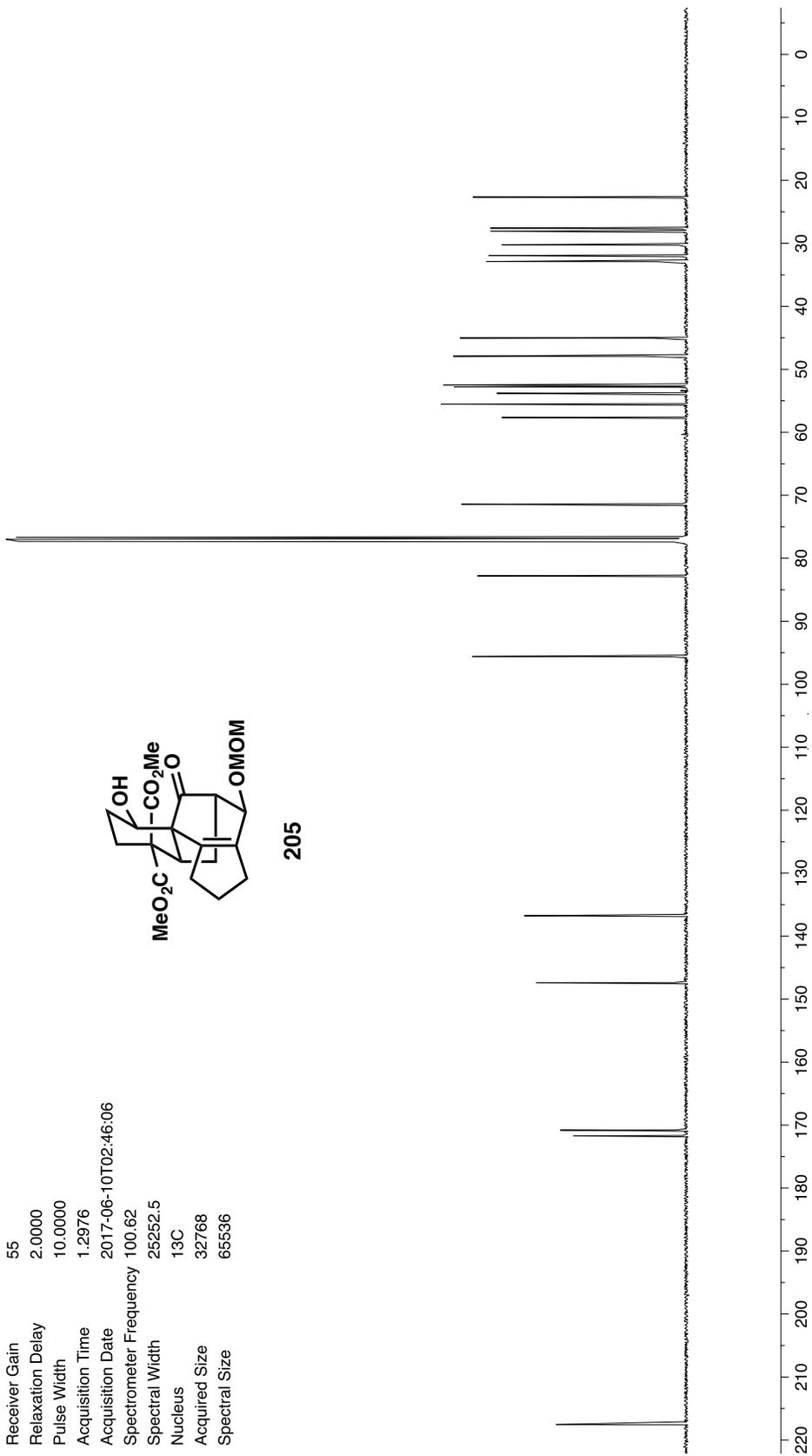
205

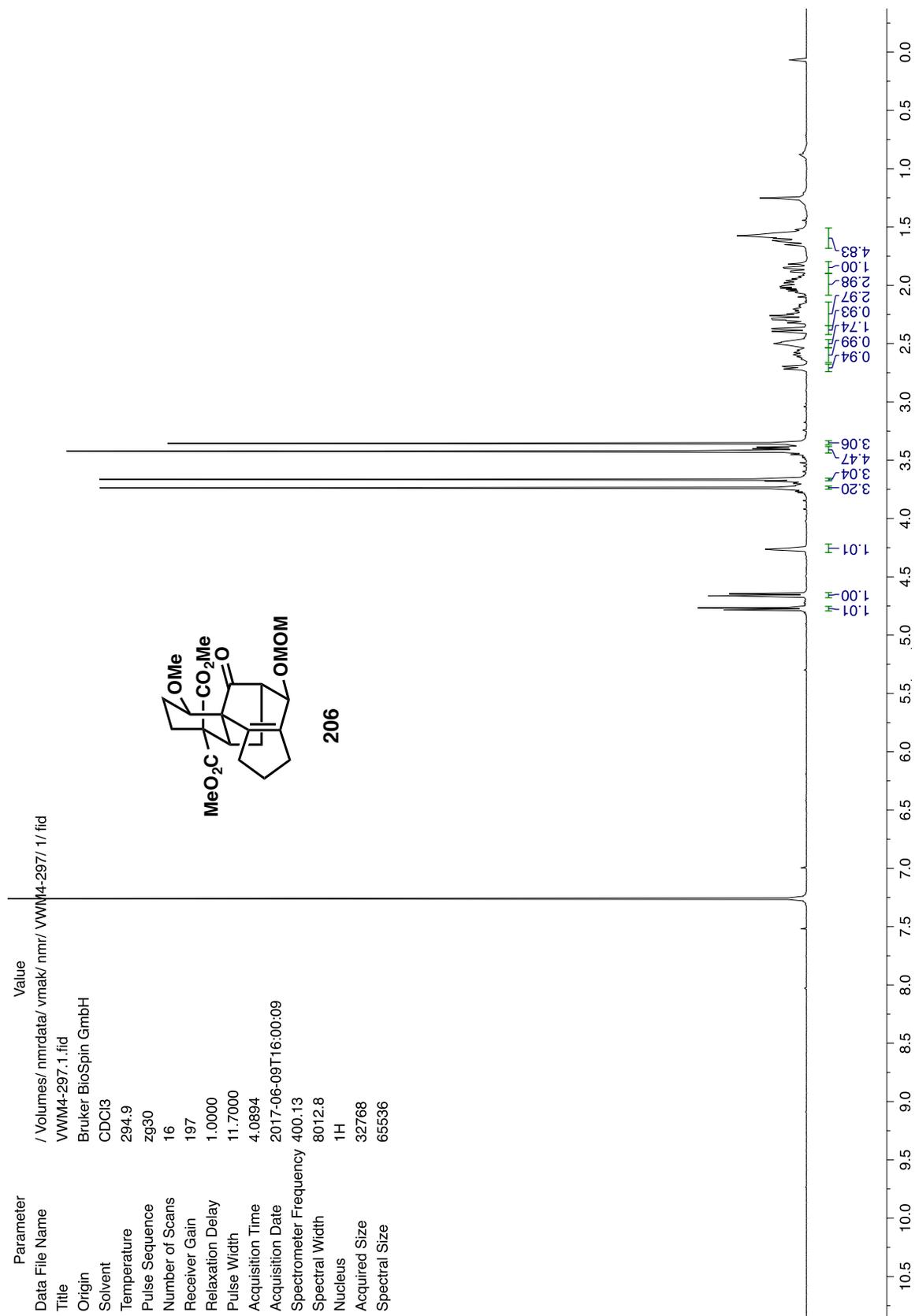


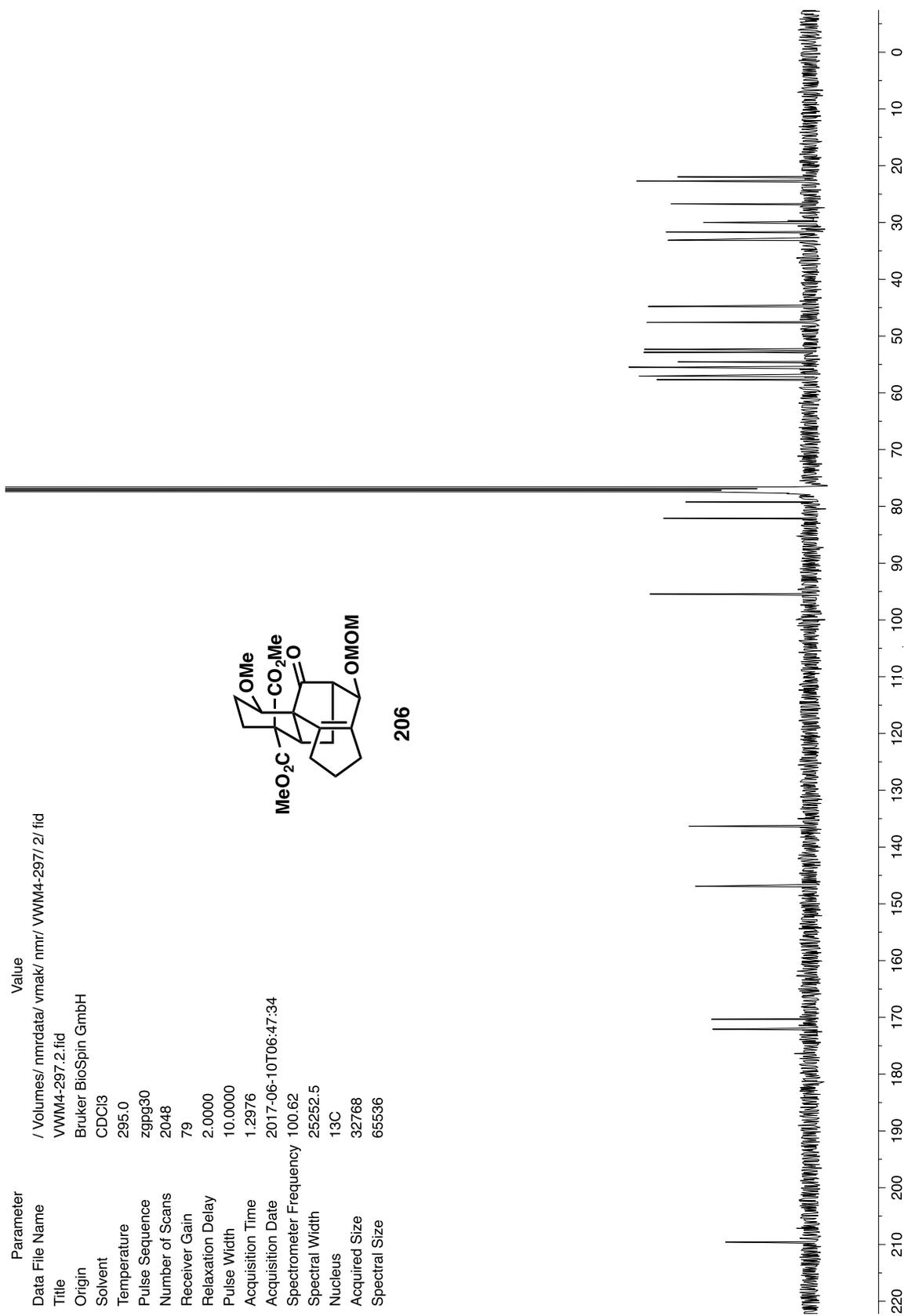
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM5-014/3/fid
Title	VWM5-014_3.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl <sub>3</sub>
Temperature	294.9
Pulse Sequence	zgpg30
Number of Scans	1024
Receiver Gain	55
Relaxation Delay	2.0000
Pulse Width	10.0000
Acquisition Time	1.2976
Acquisition Date	2017-06-10T02:46:06
Spectrometer Frequency	100.62
Spectral Width	25252.5
Nucleus	<sup>13</sup> C
Acquired Size	32768
Spectral Size	65536

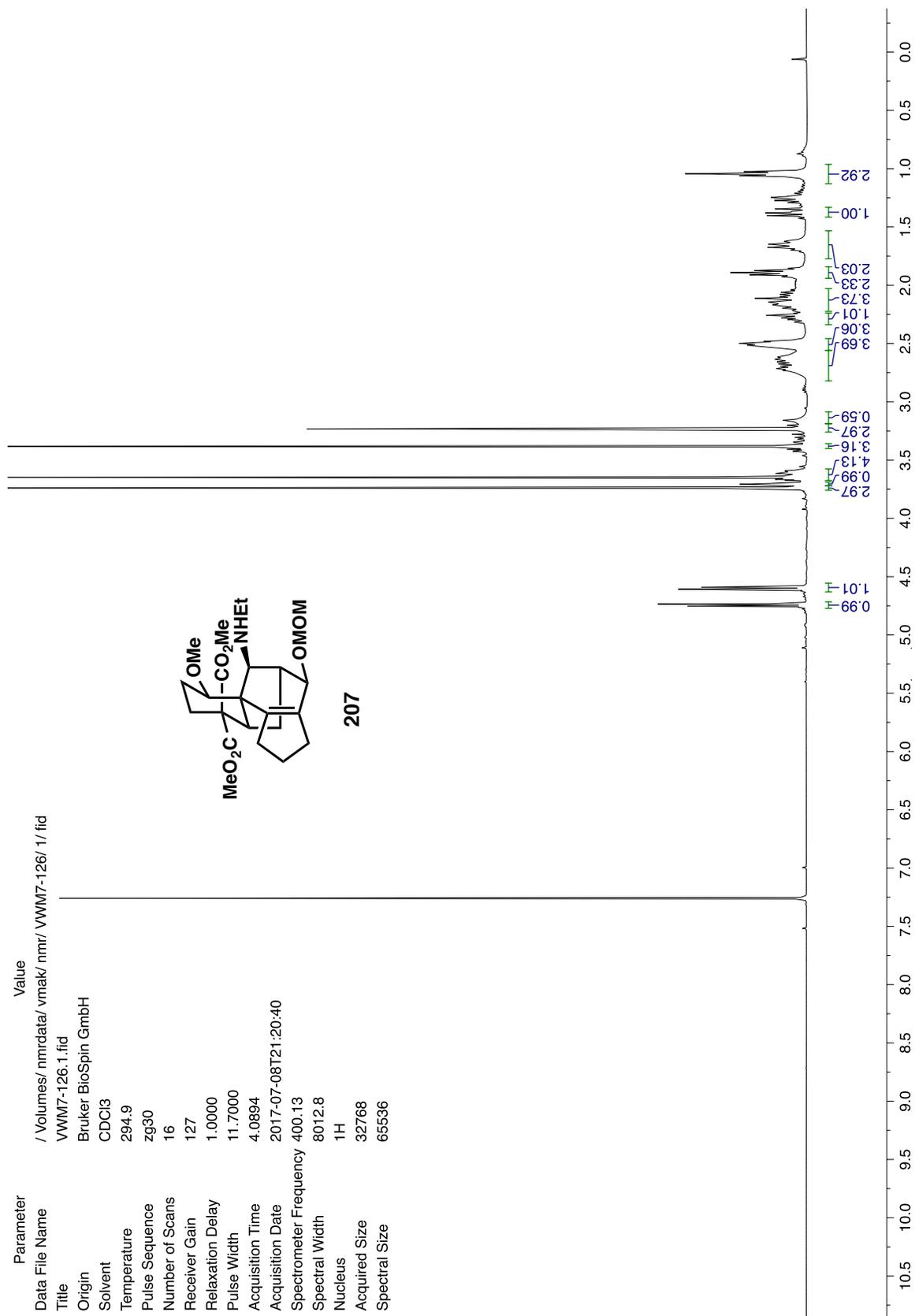


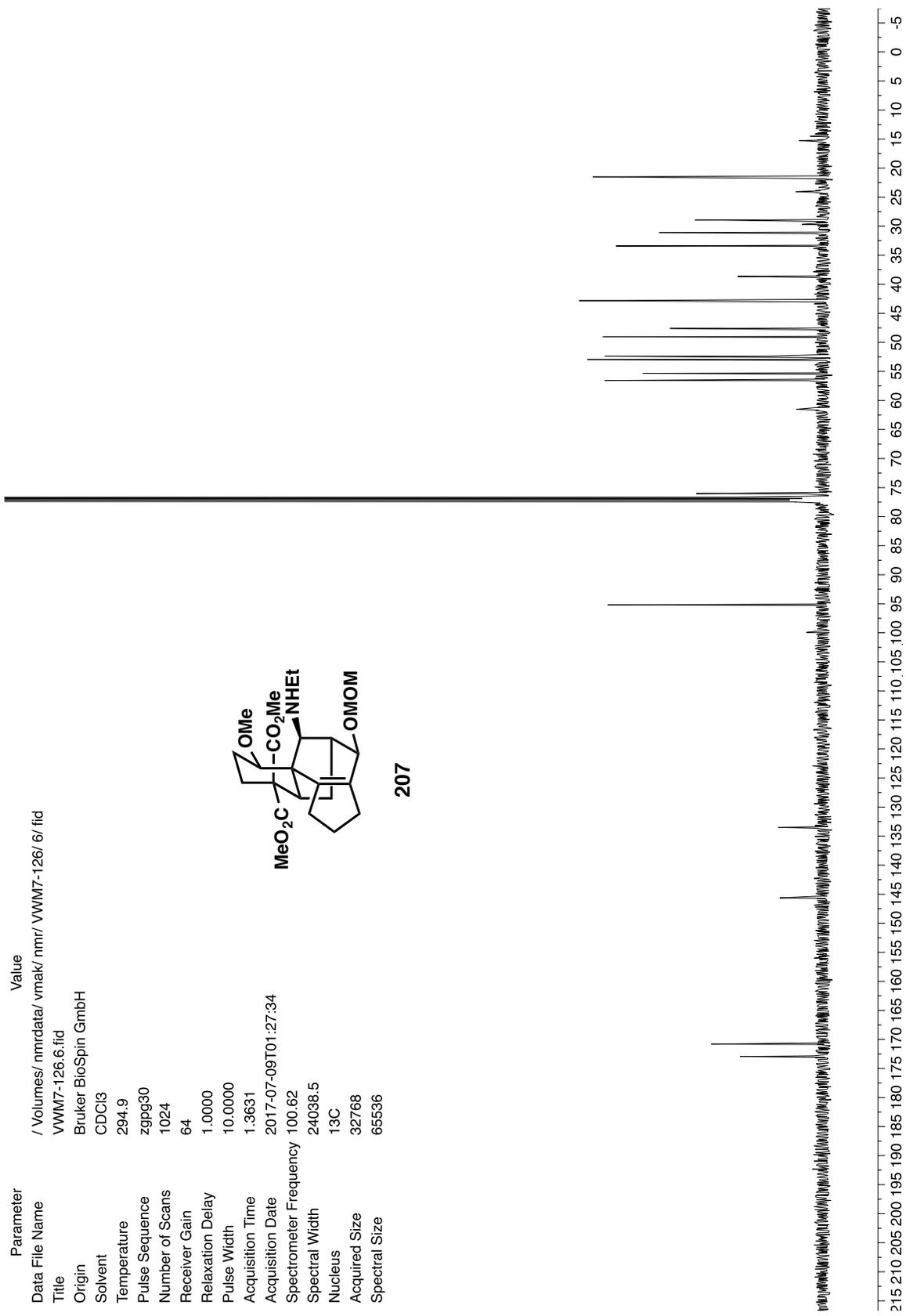
205

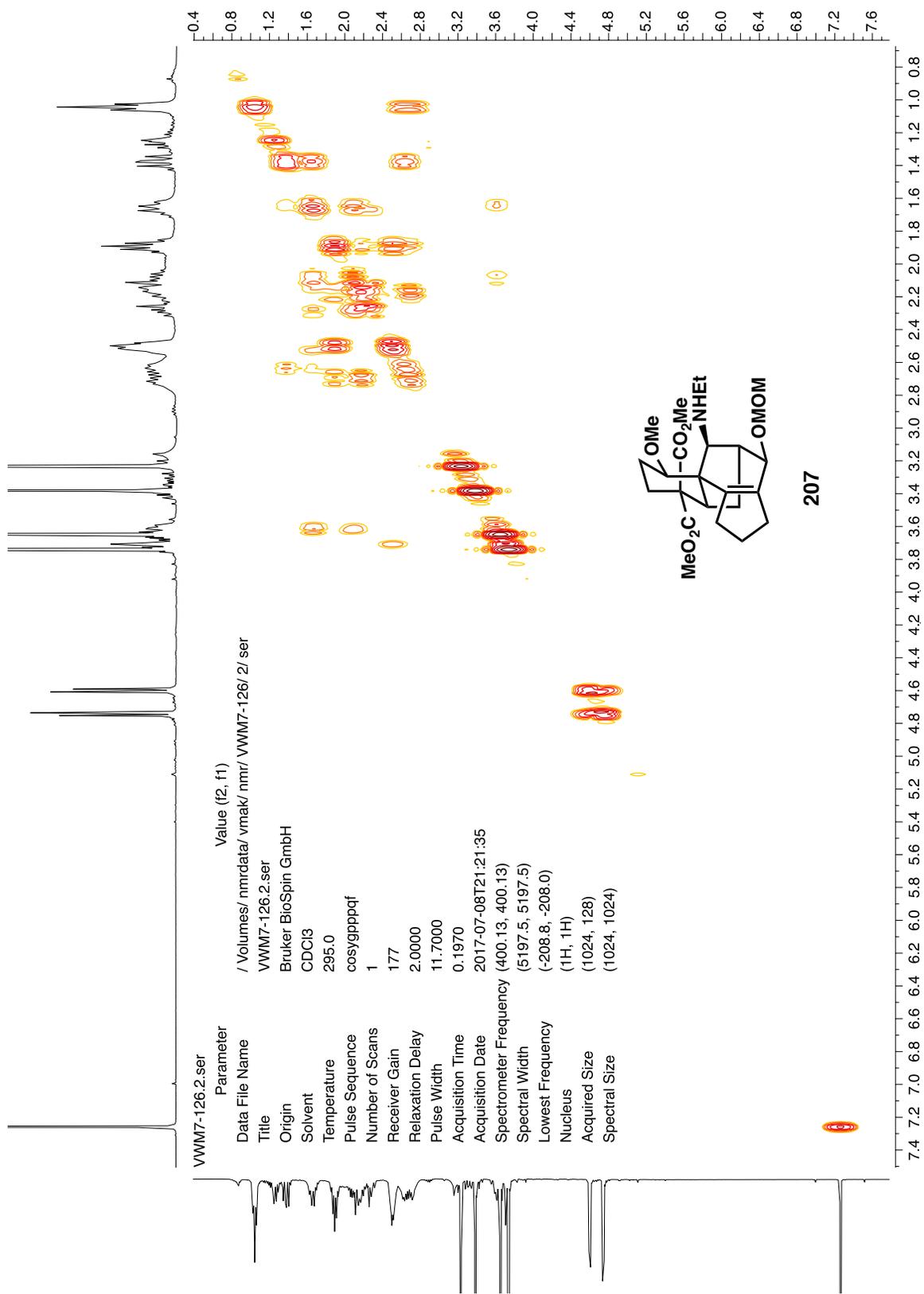


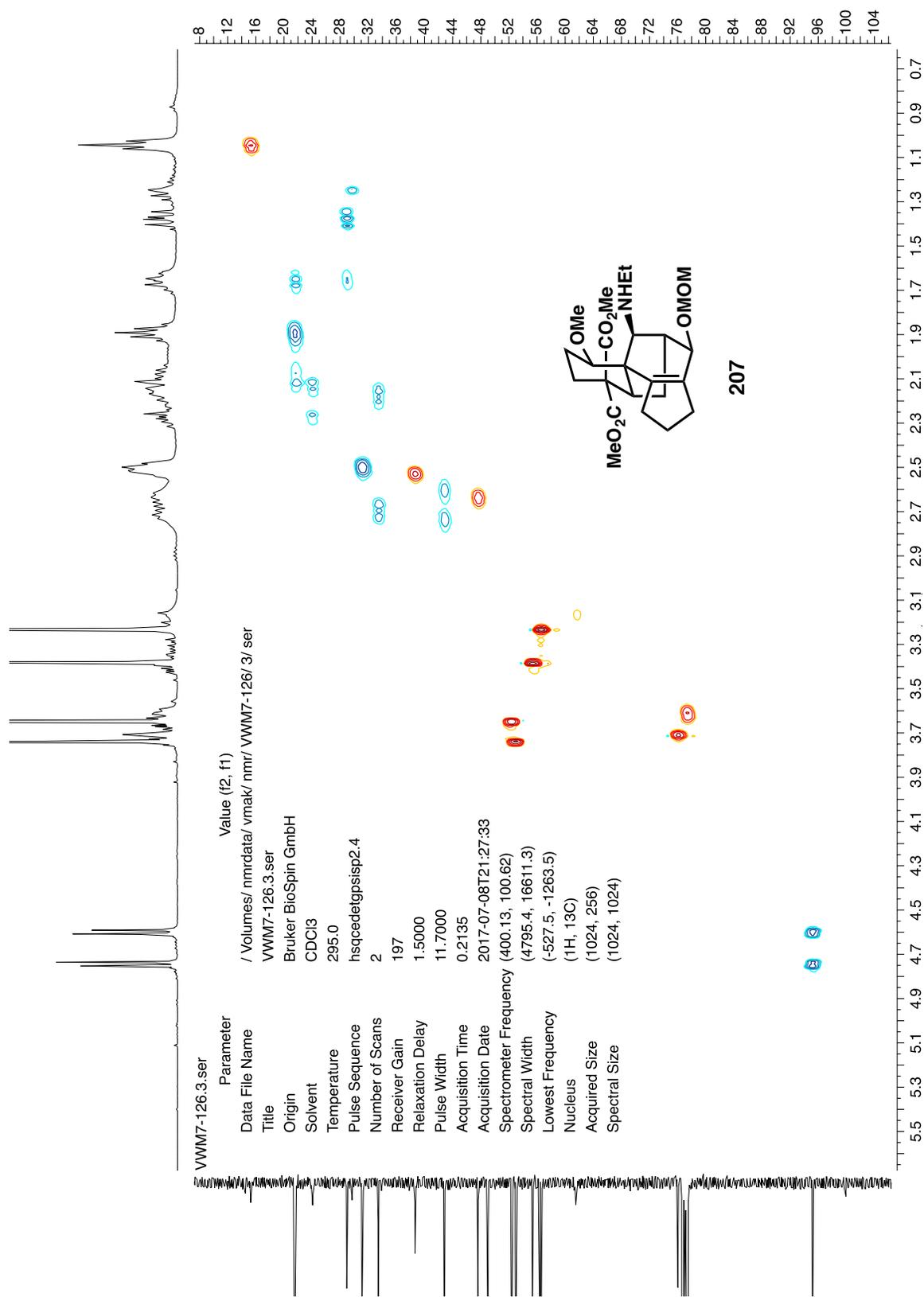


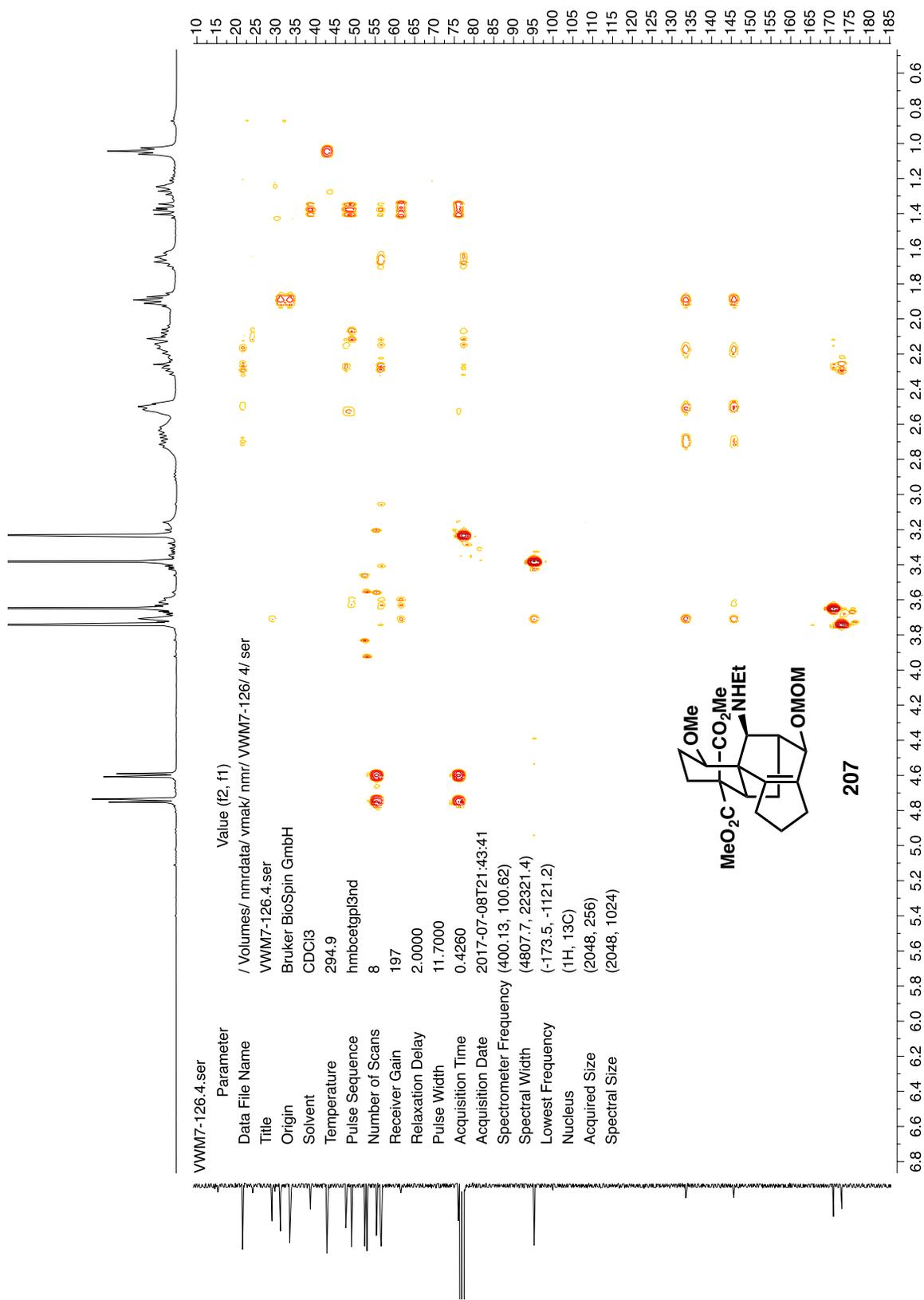


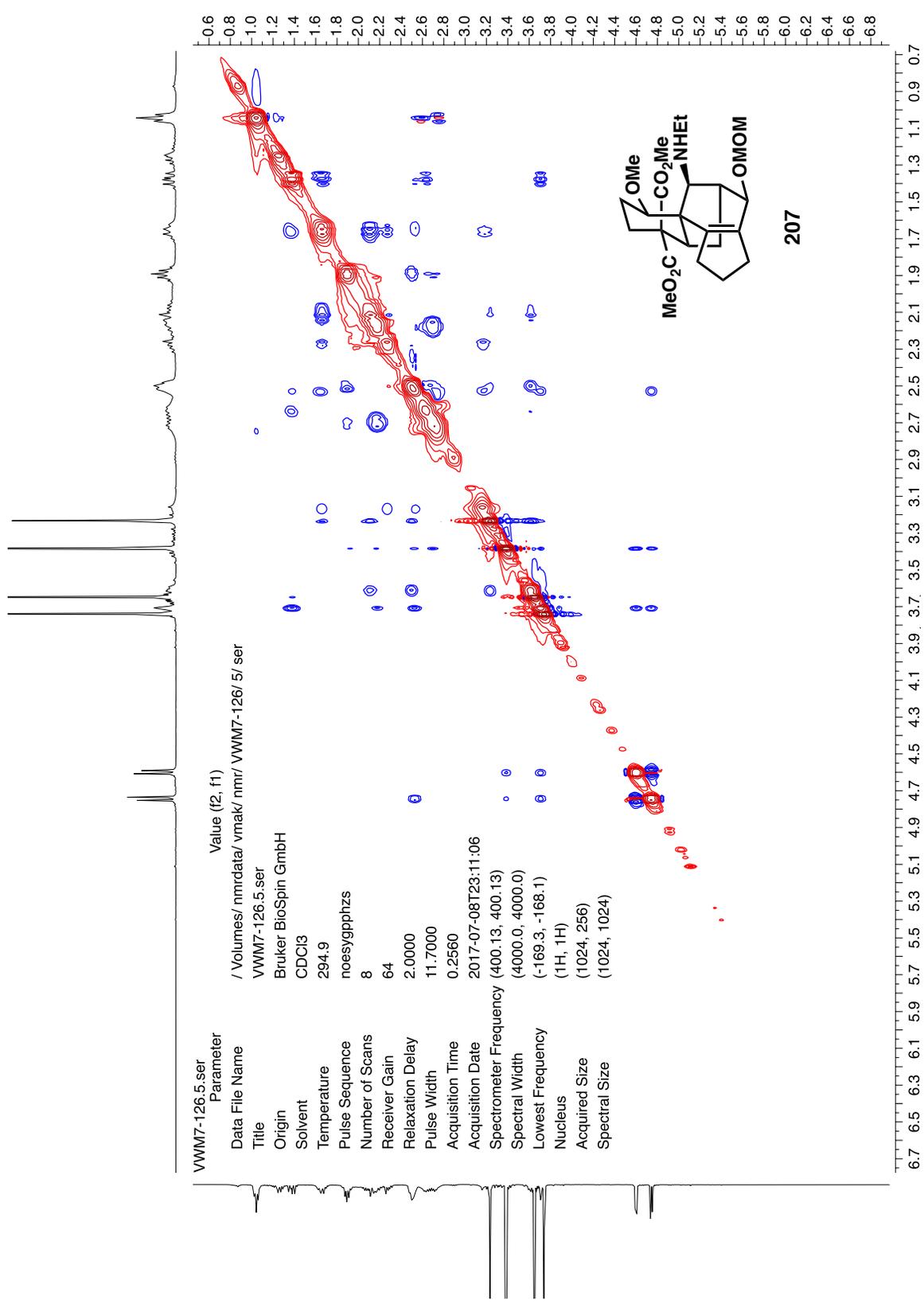


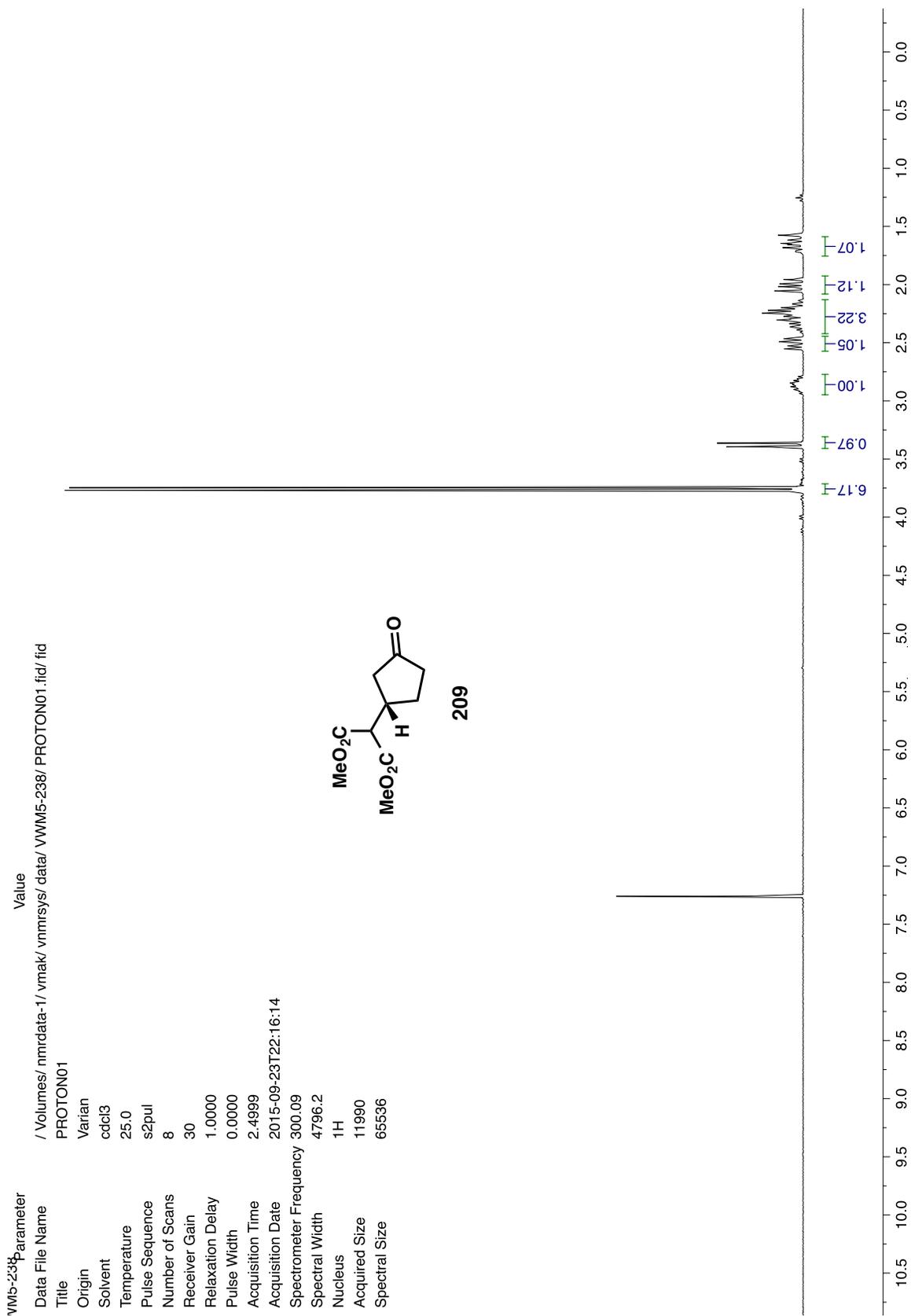


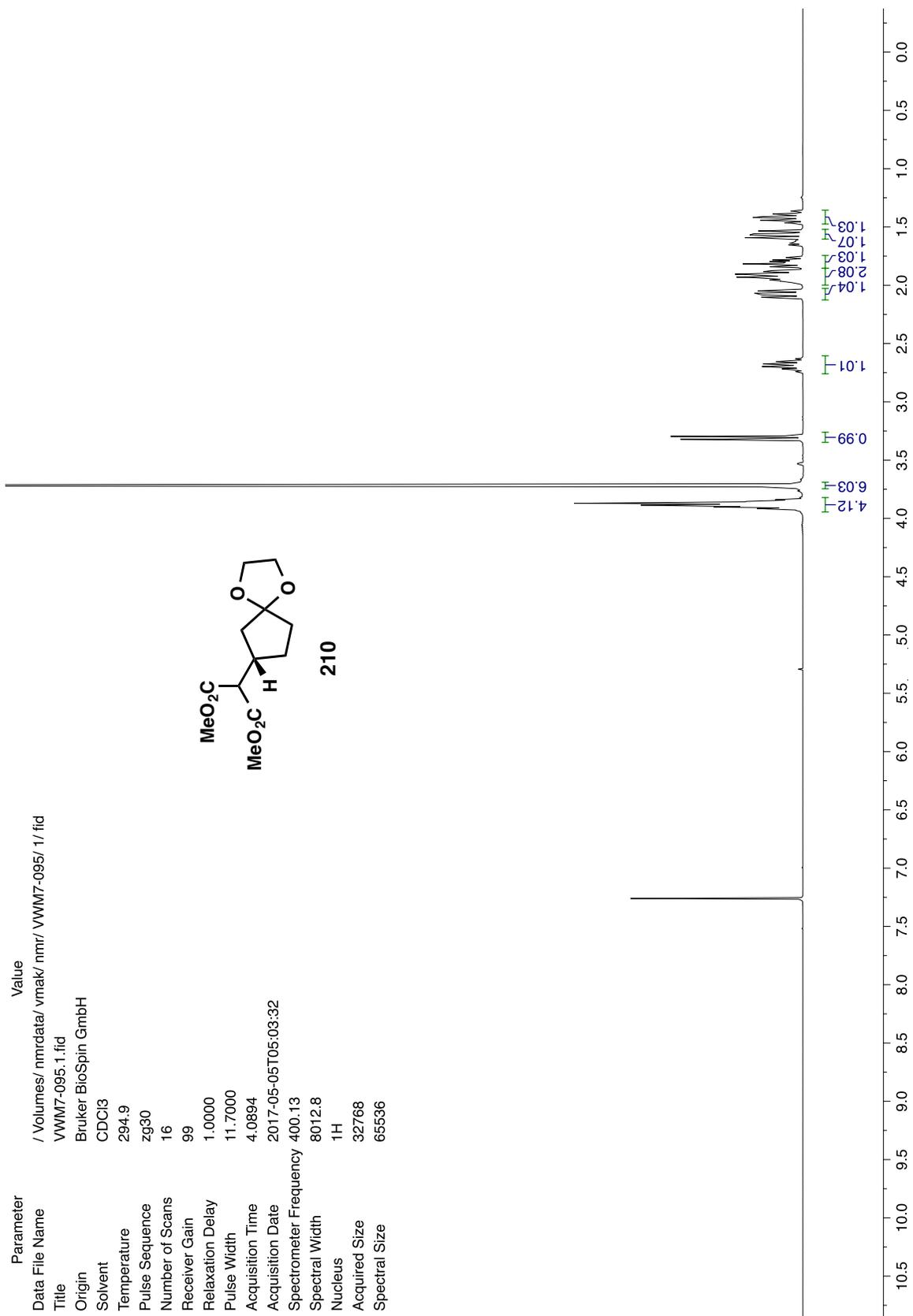


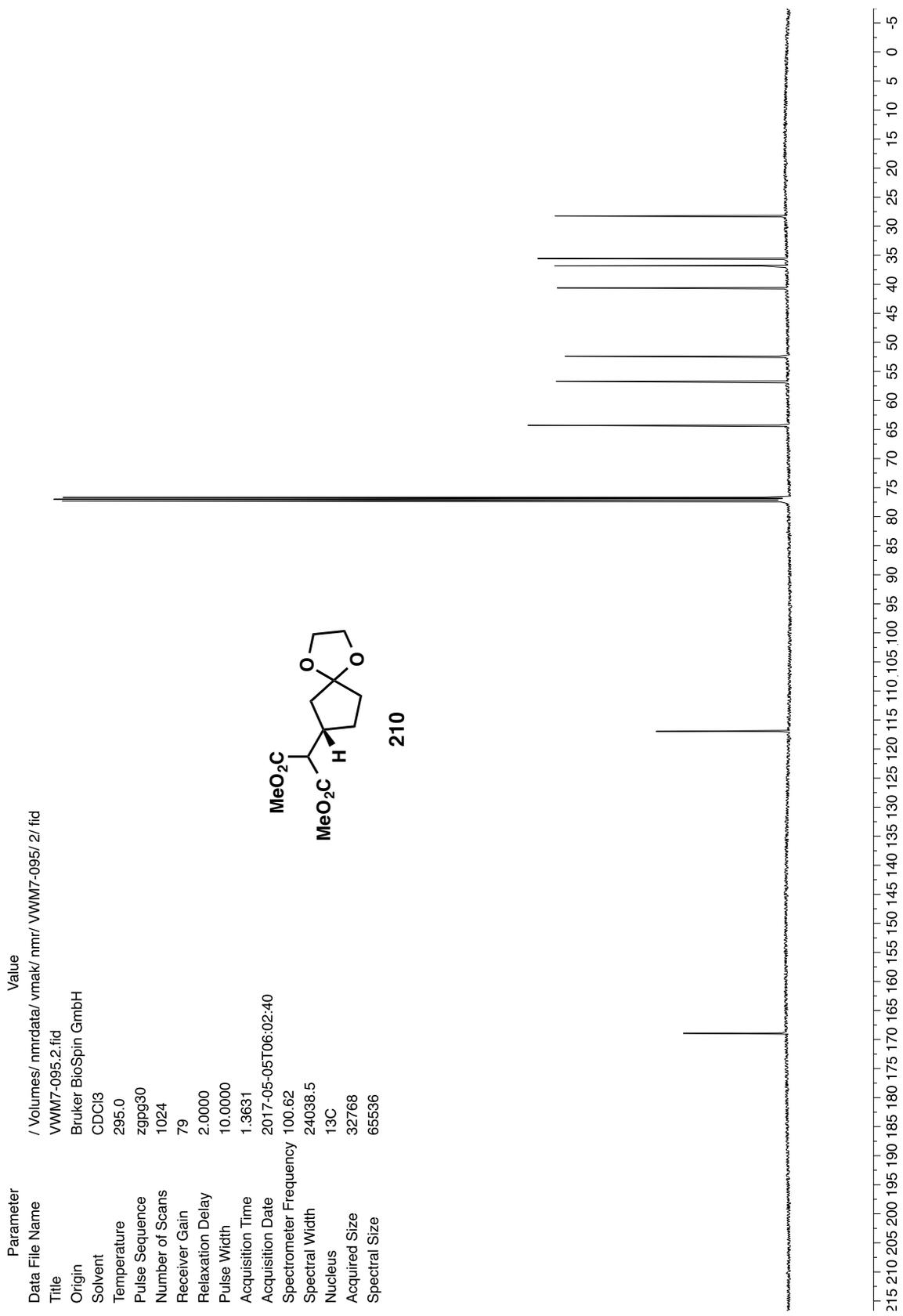


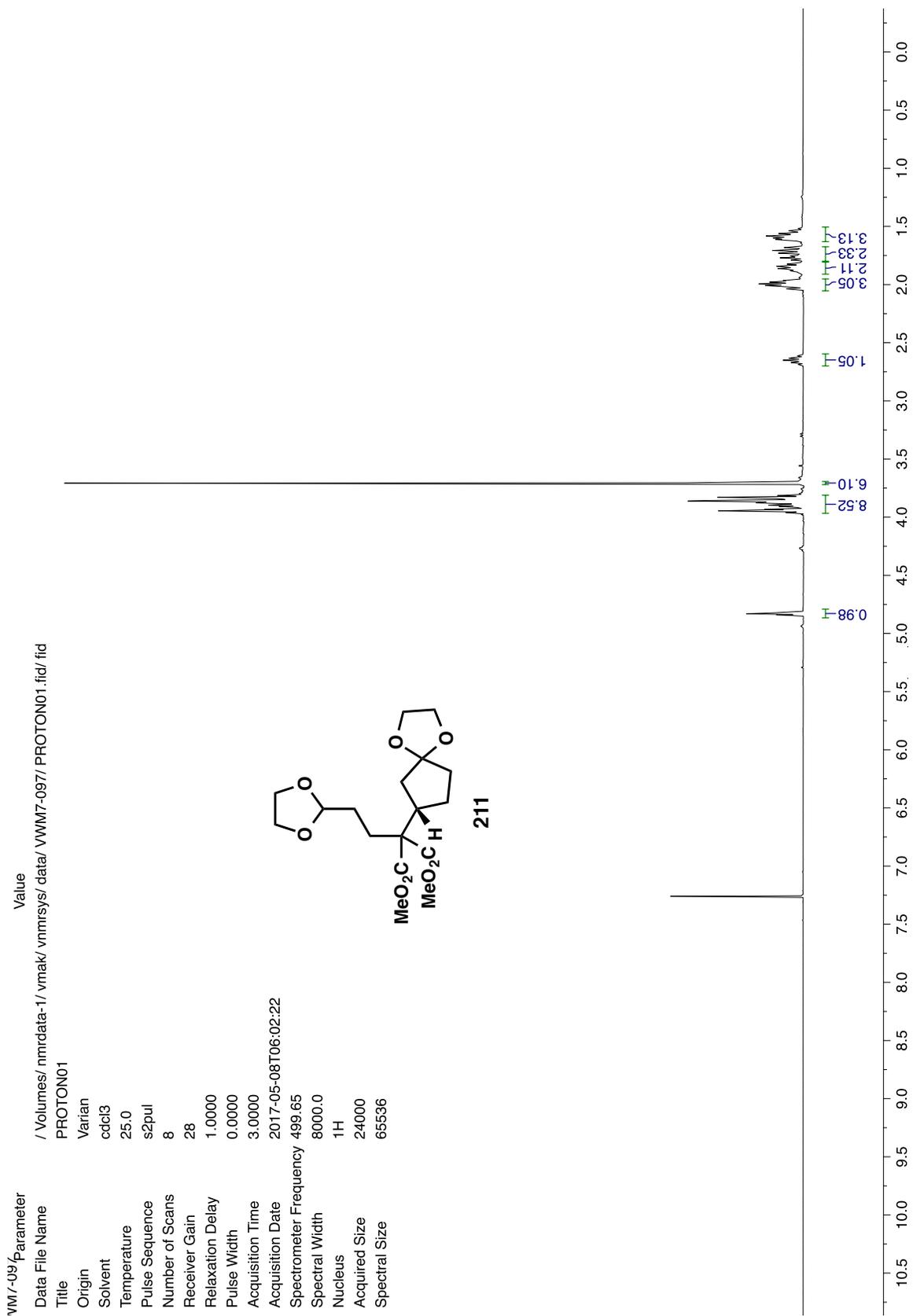


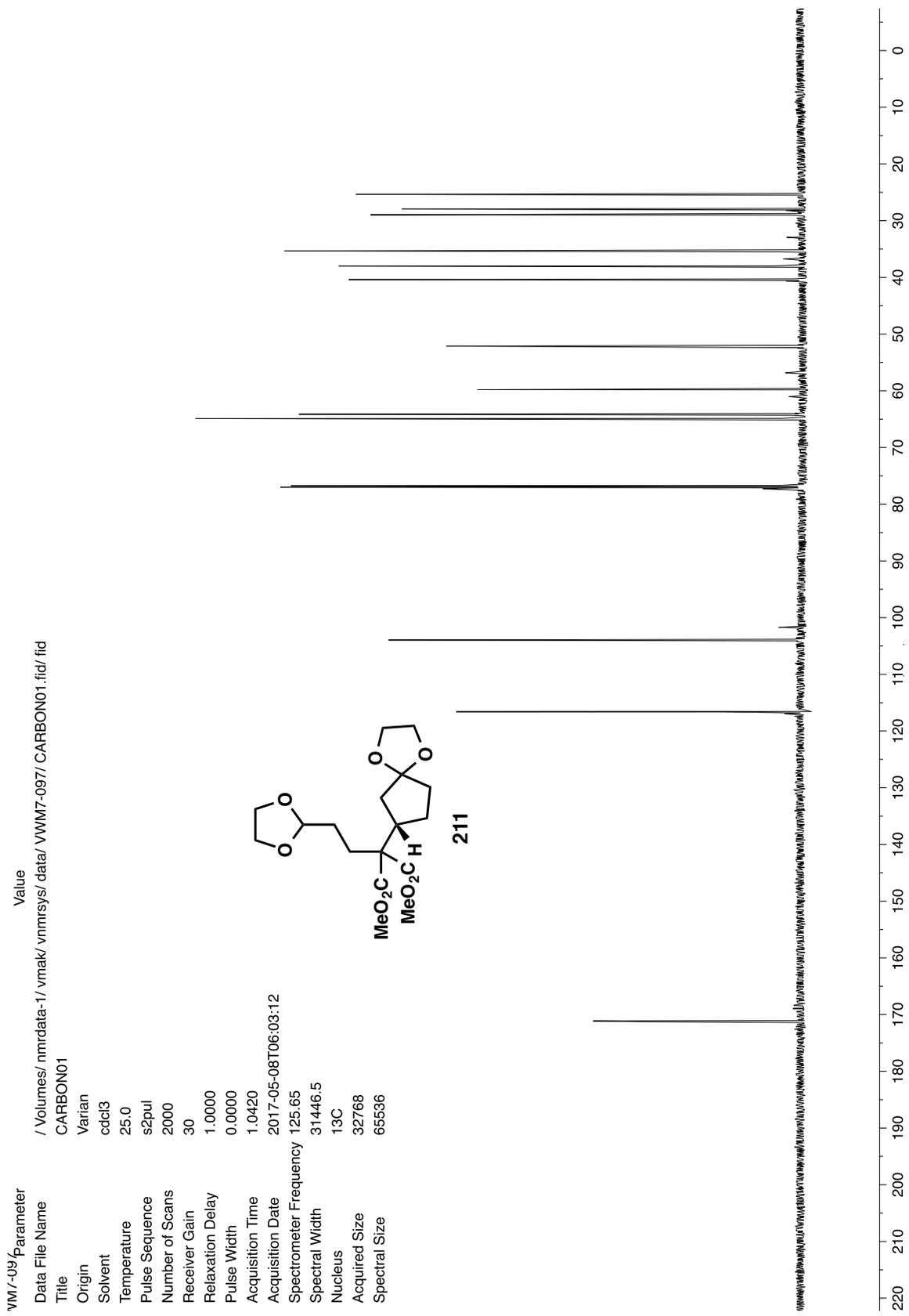


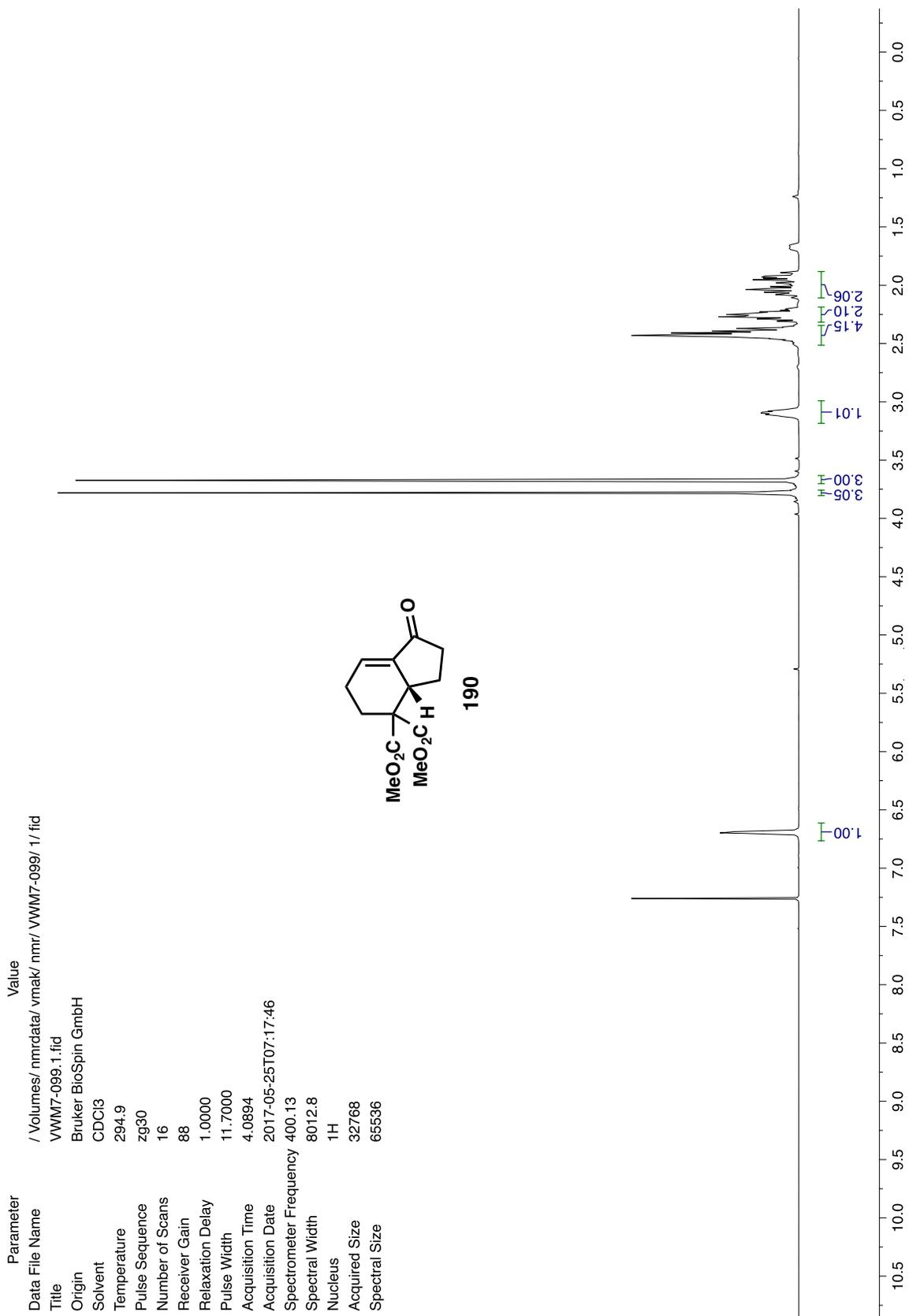




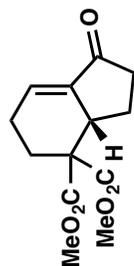




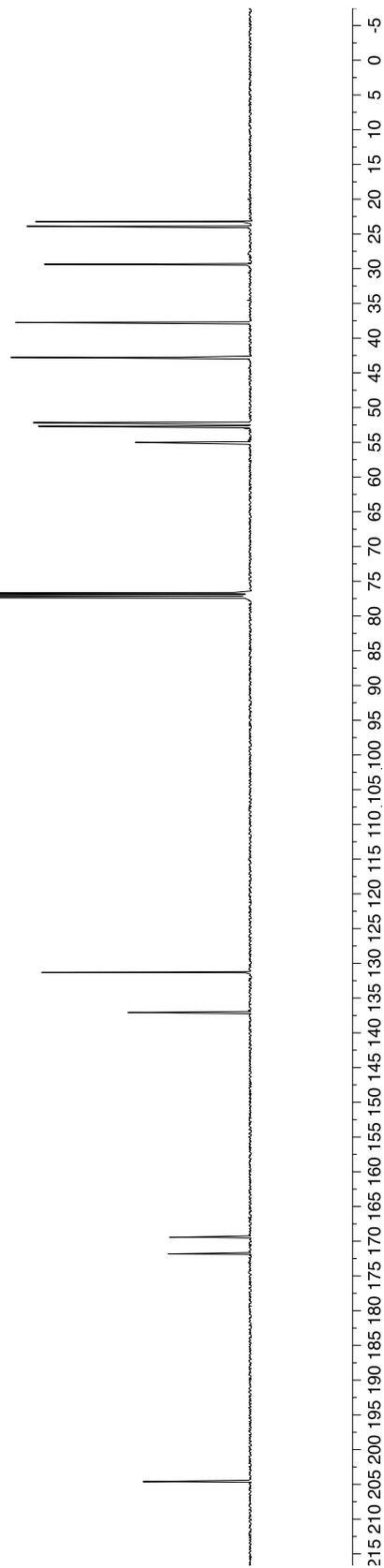


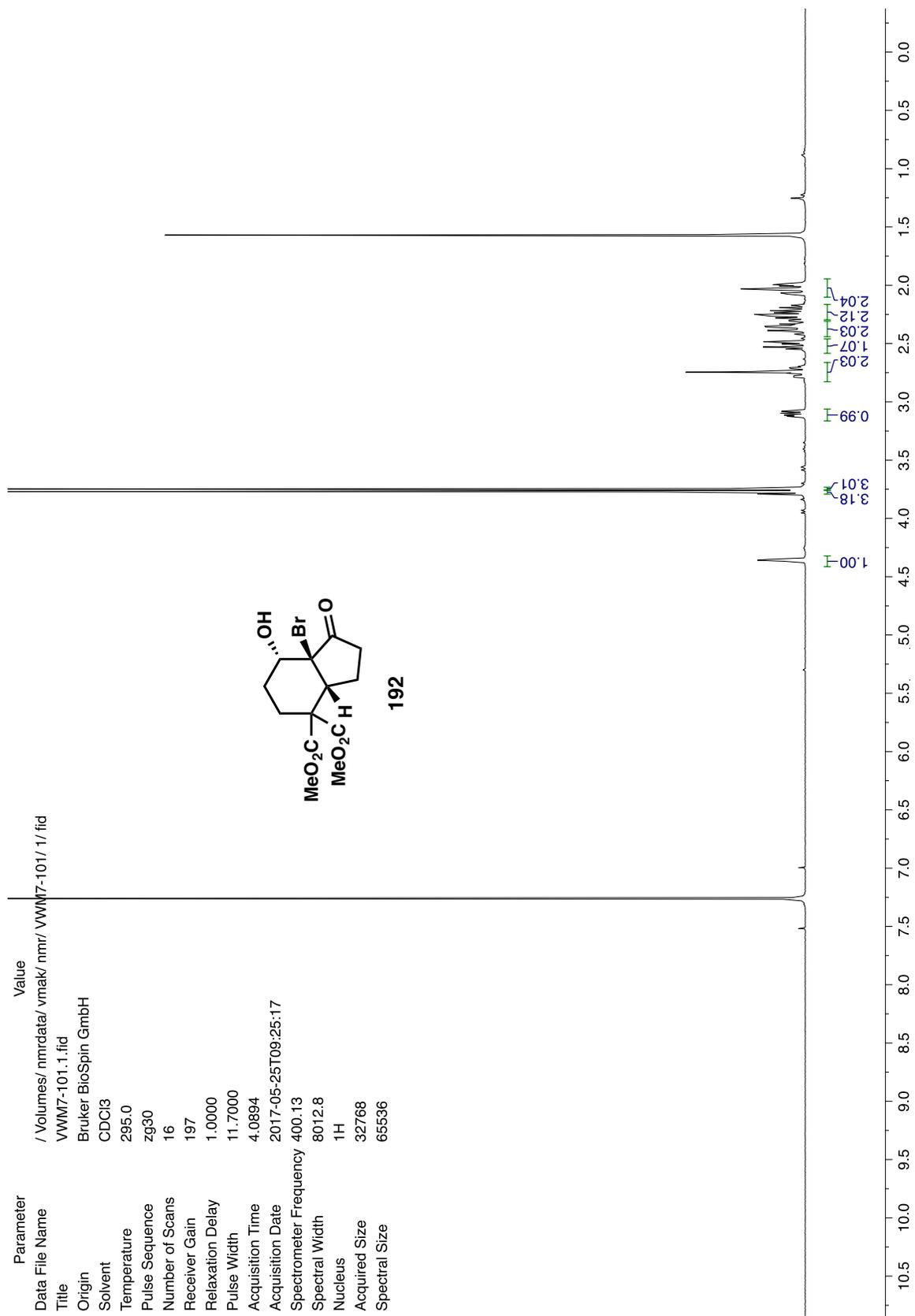


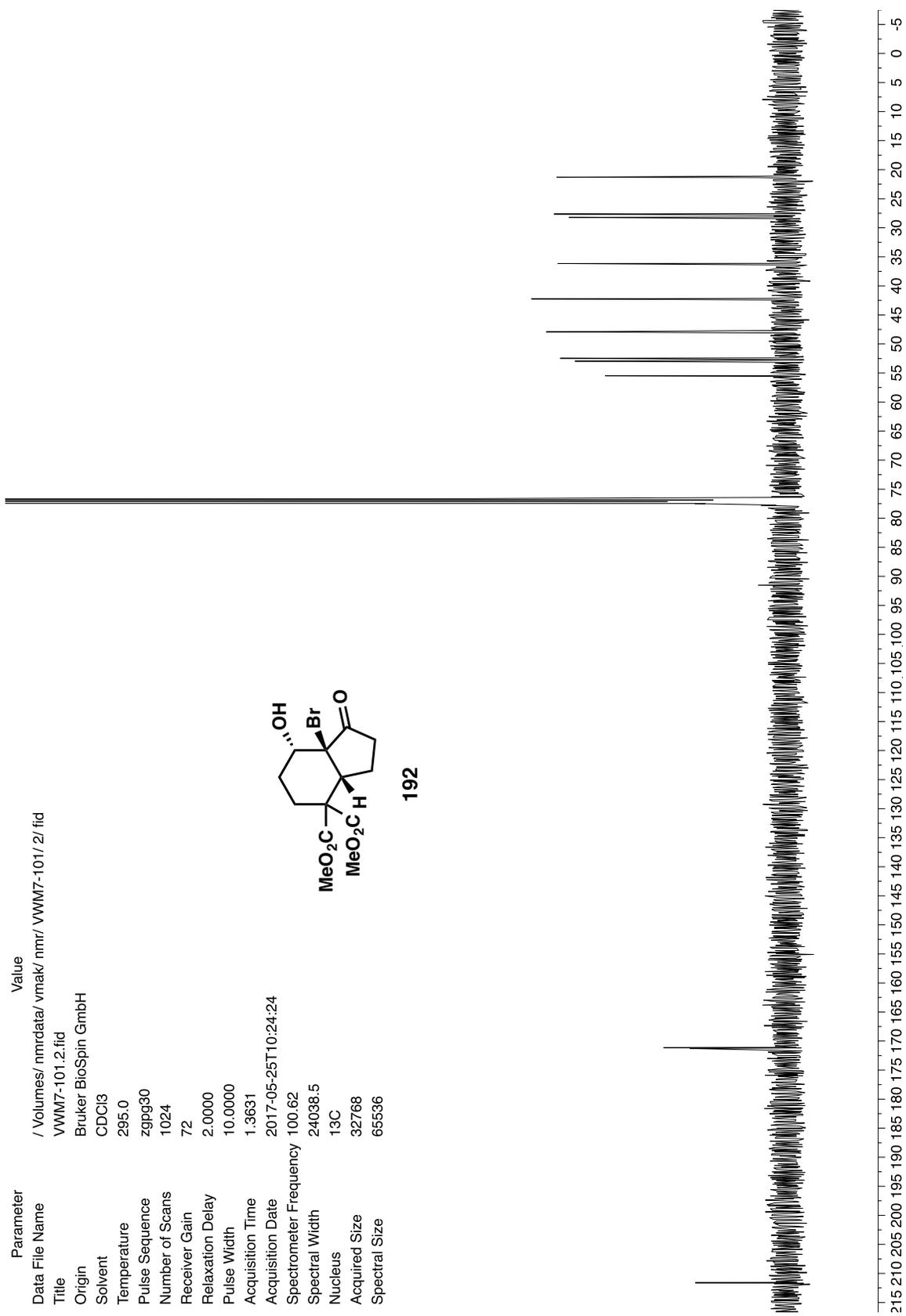
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM7-099/2/ fid
Title	VWM7-099_2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	294.9
Pulse Sequence	zgpg30
Number of Scans	1024
Receiver Gain	72
Relaxation Delay	2.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2017-05-25T08:16:54
Spectrometer Frequency	100.62
Spectral Width	24038.5
Nucleus	13C
Acquired Size	32768
Spectral Size	65536

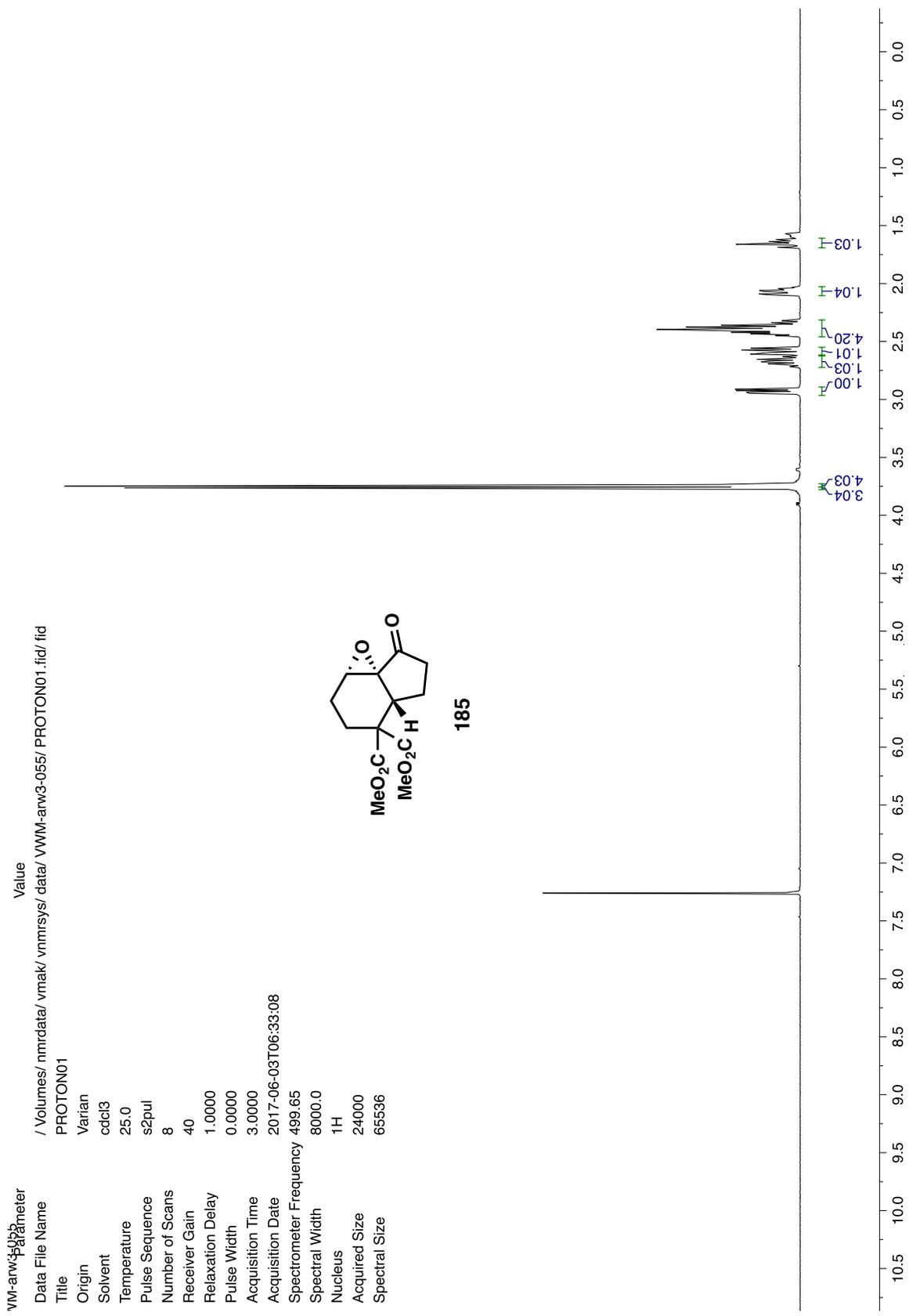


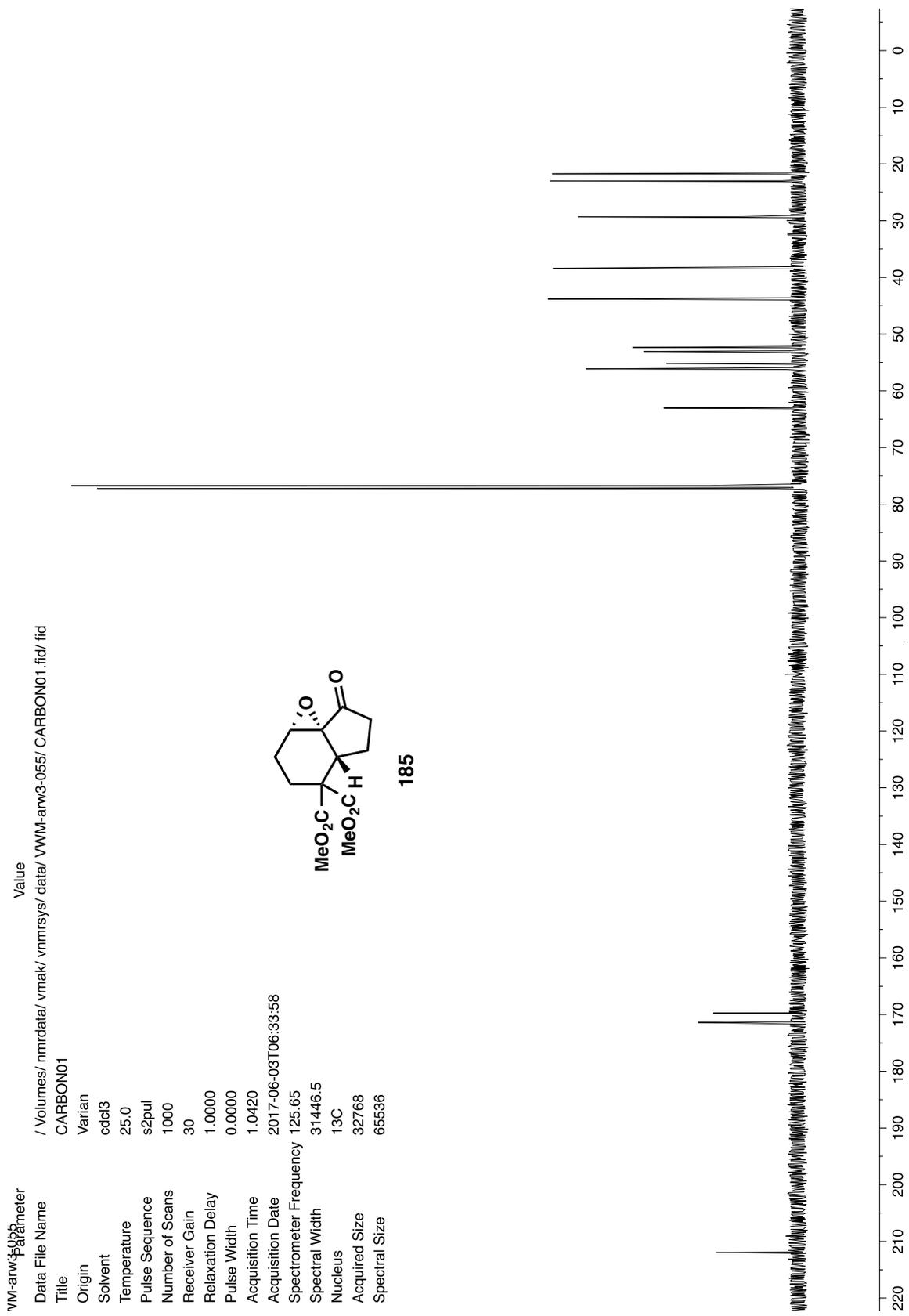
190

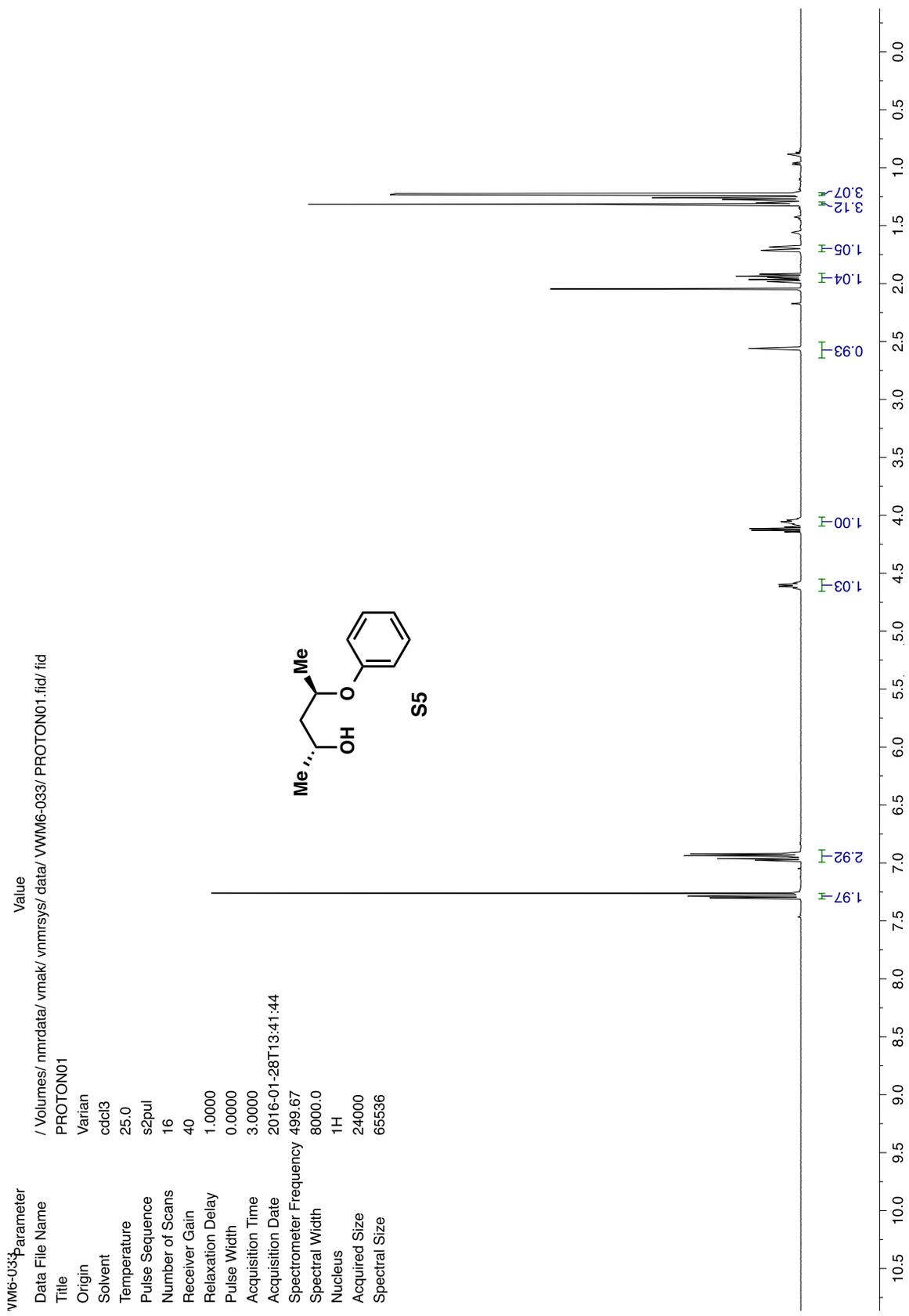






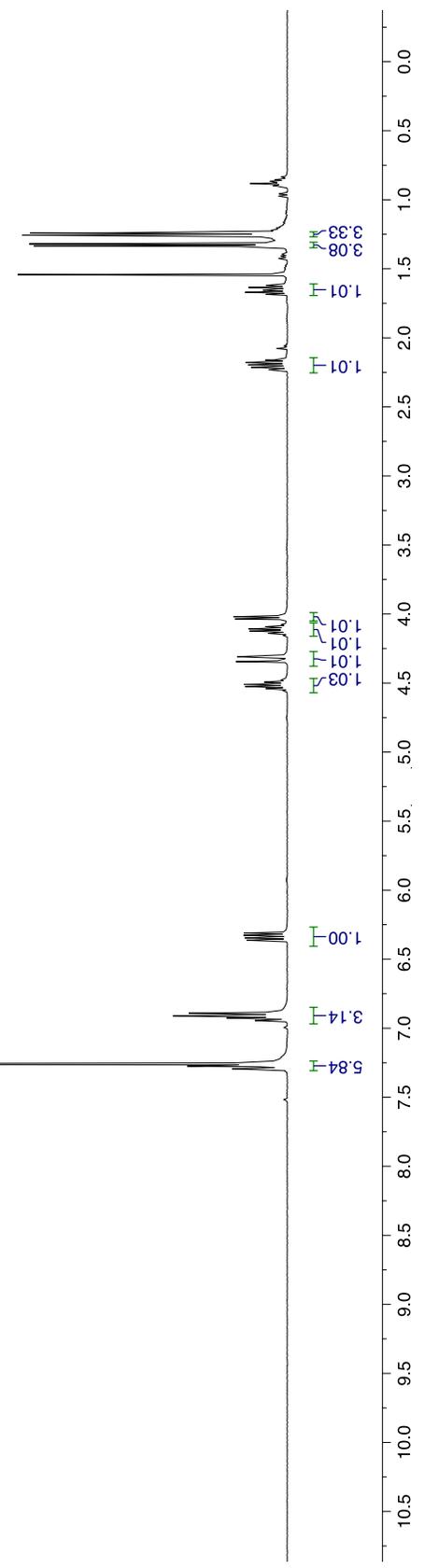
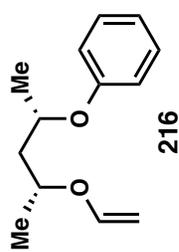


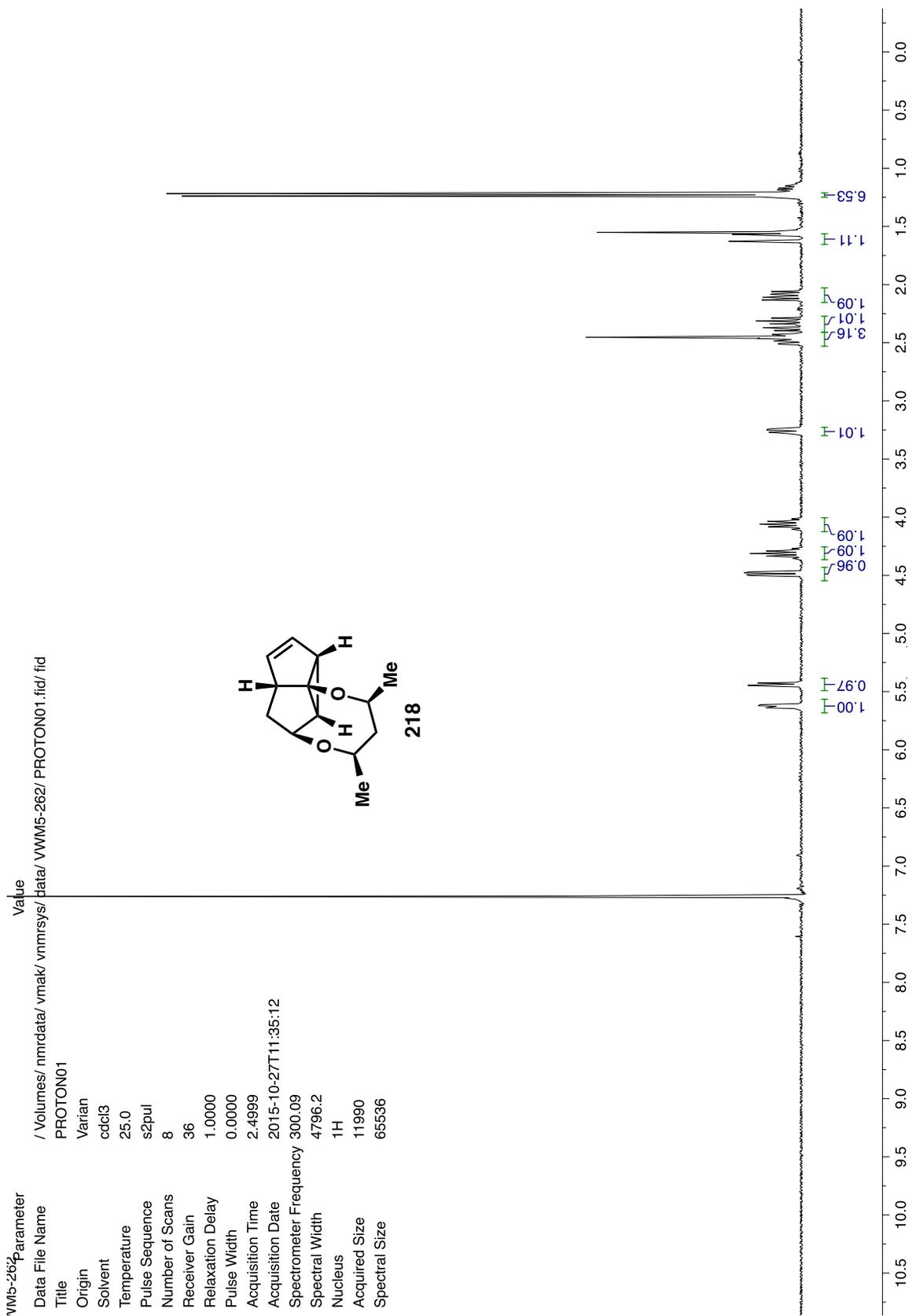




Parameter Value  
 / Volumes/ nmrdata/ vmak/ nmr/ VWM6-048-flashed/ 1/ fid

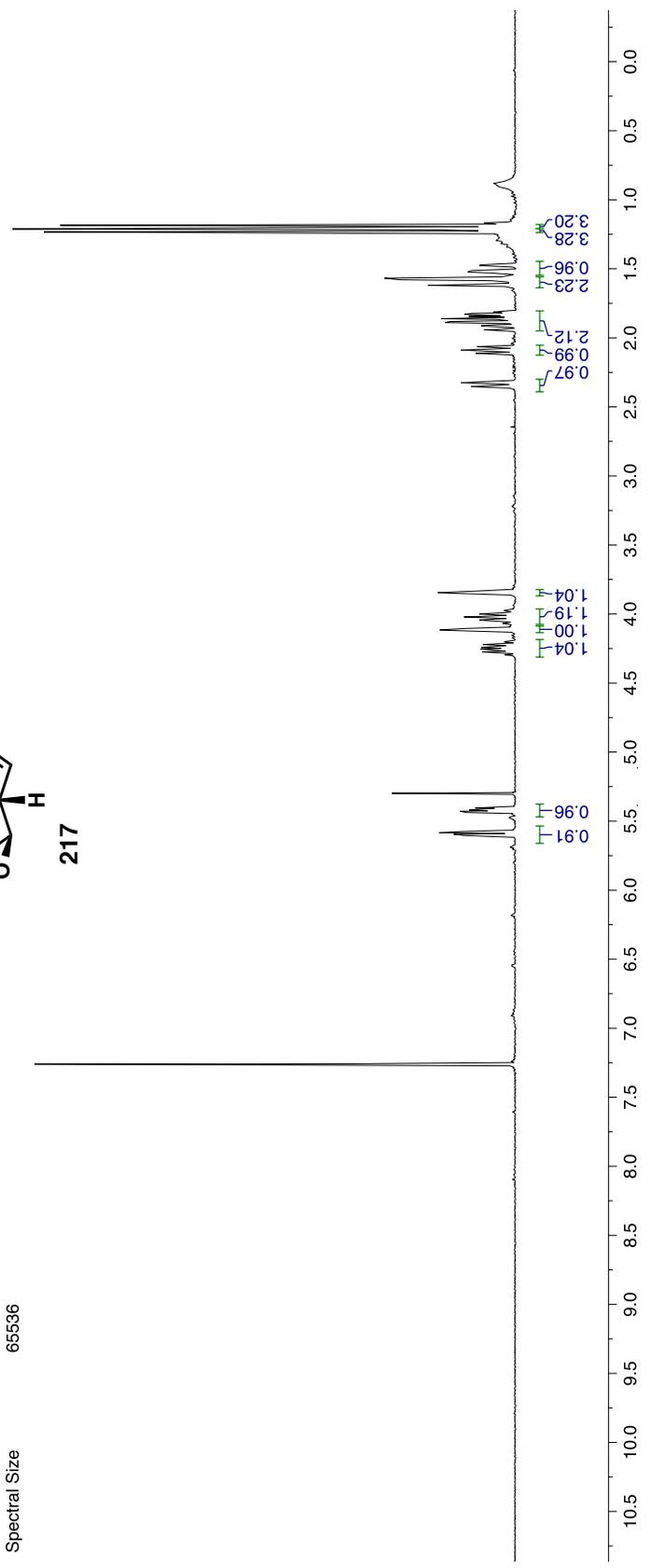
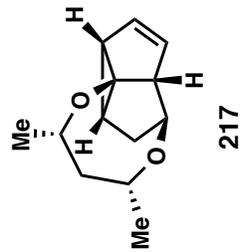
Data File Name VWM6-048-flashed\_1.fid  
 Title Bruker BioSpin GmbH  
 Origin CDC13  
 Solvent z930  
 Temperature 294.9  
 Pulse Sequence 16  
 Number of Scans 197  
 Receiver Gain 1.0000  
 Relaxation Delay 11.7000  
 Pulse Width 4.0894  
 Acquisition Time 2016-03-11T19:56:13  
 Acquisition Date 400.13  
 Spectrometer Frequency 8012.8  
 Spectral Width 1H  
 Nucleus 32768  
 Acquired Size 65536  
 Spectral Size

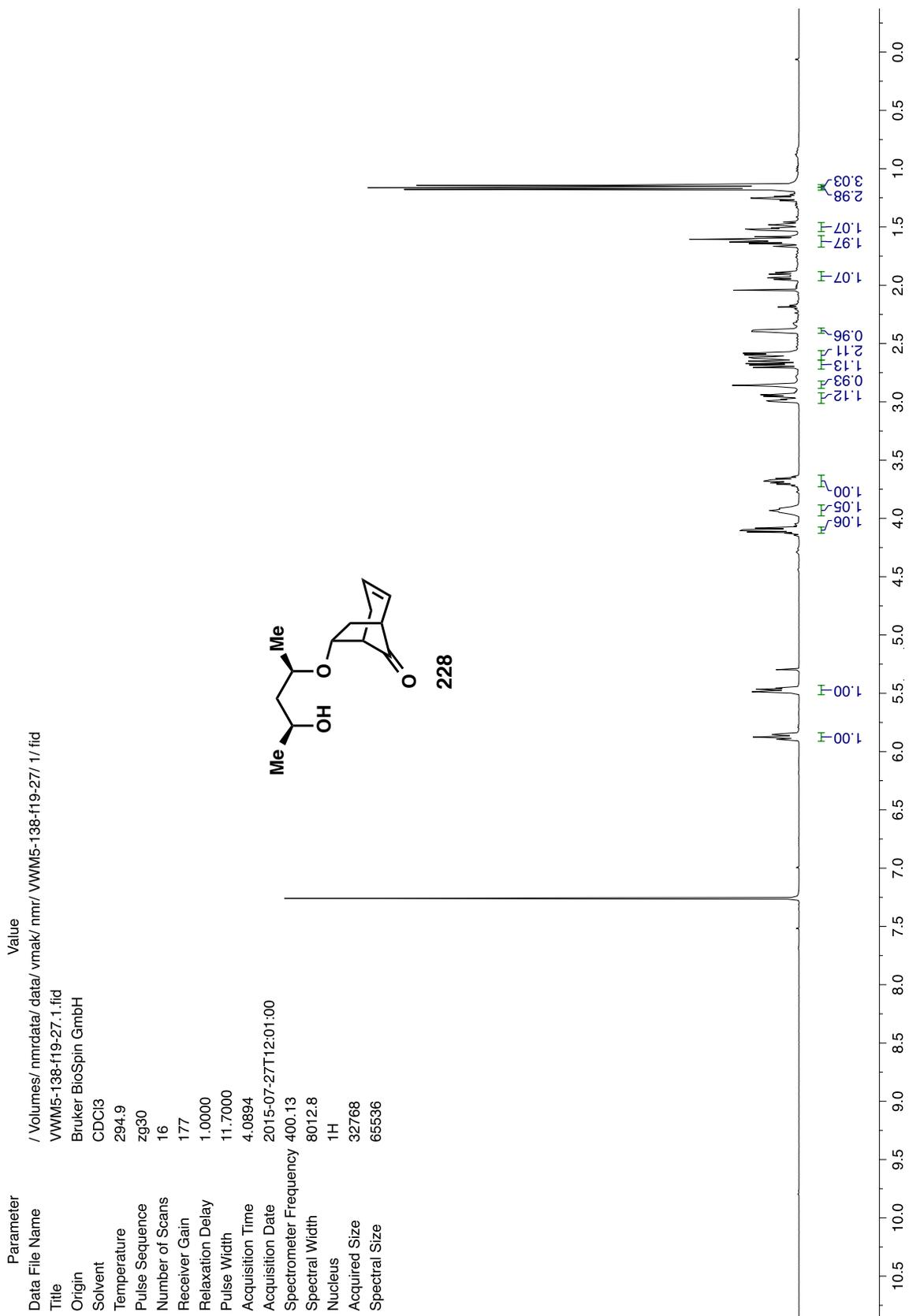


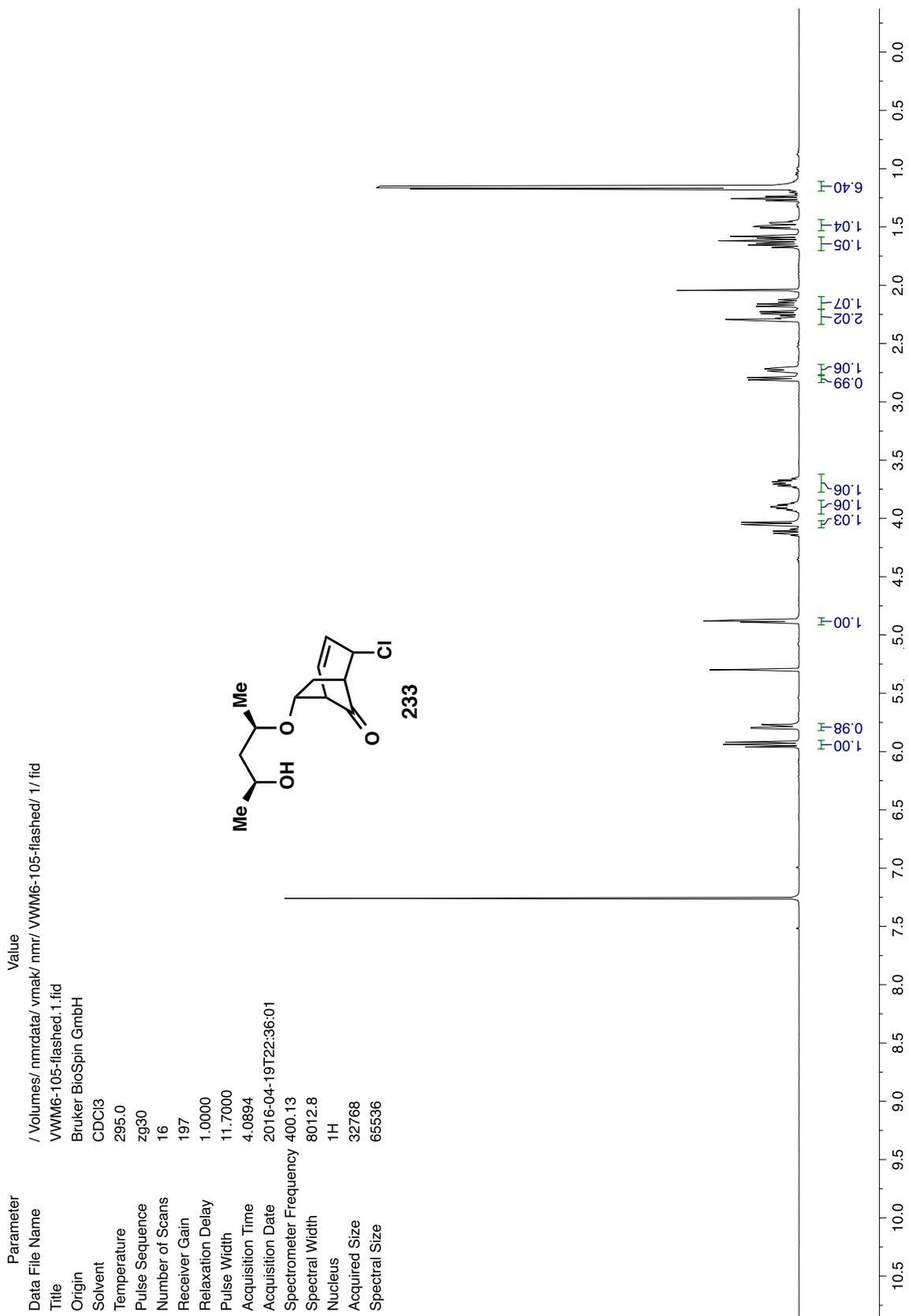


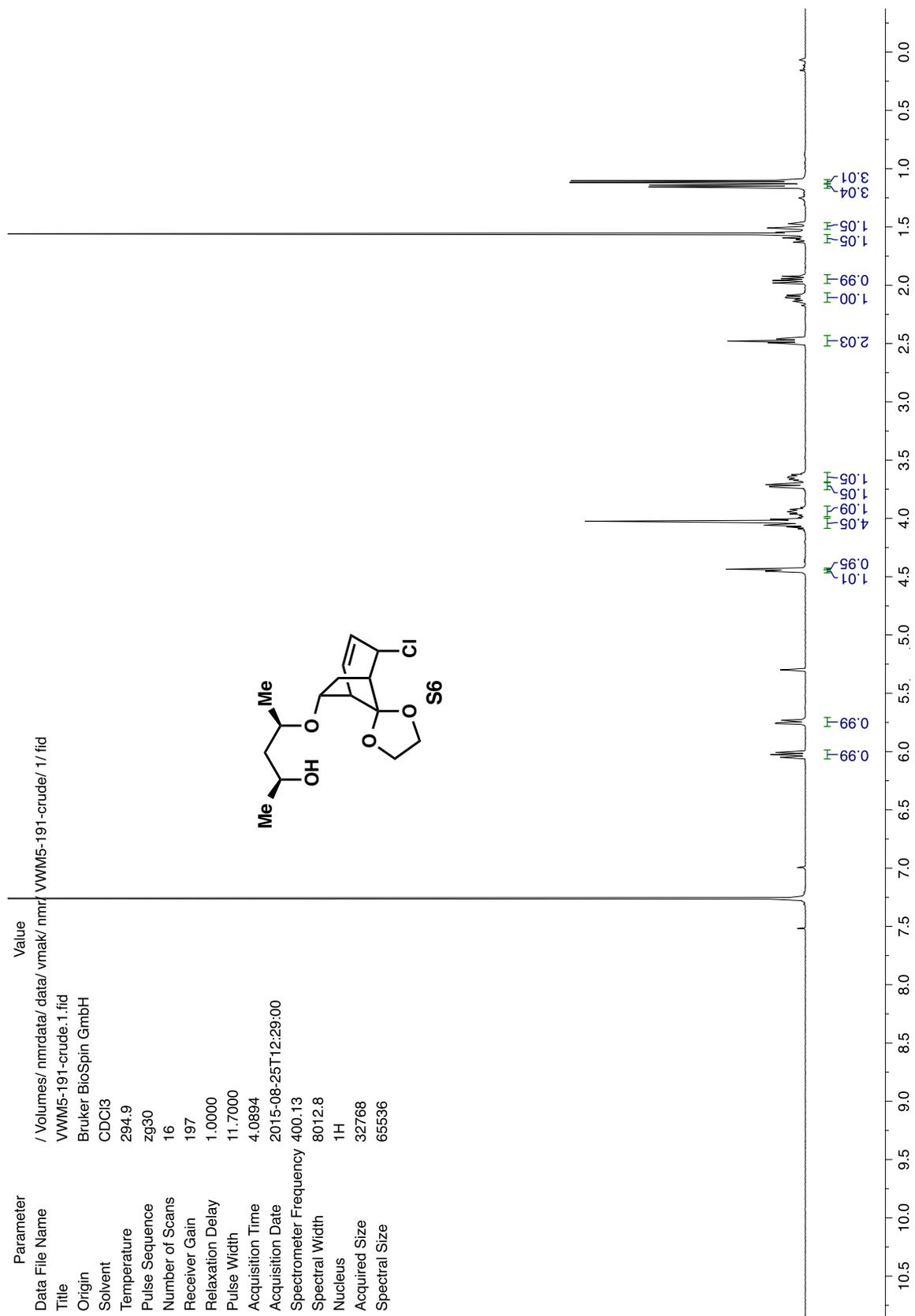
VMb-132-10-16  
 Paramèter  
 / Volumes/ nmrdata-2/ vmak/ vnmsys/ data/ VMM5-132-f10-16/ PROTON01.fid/ fid

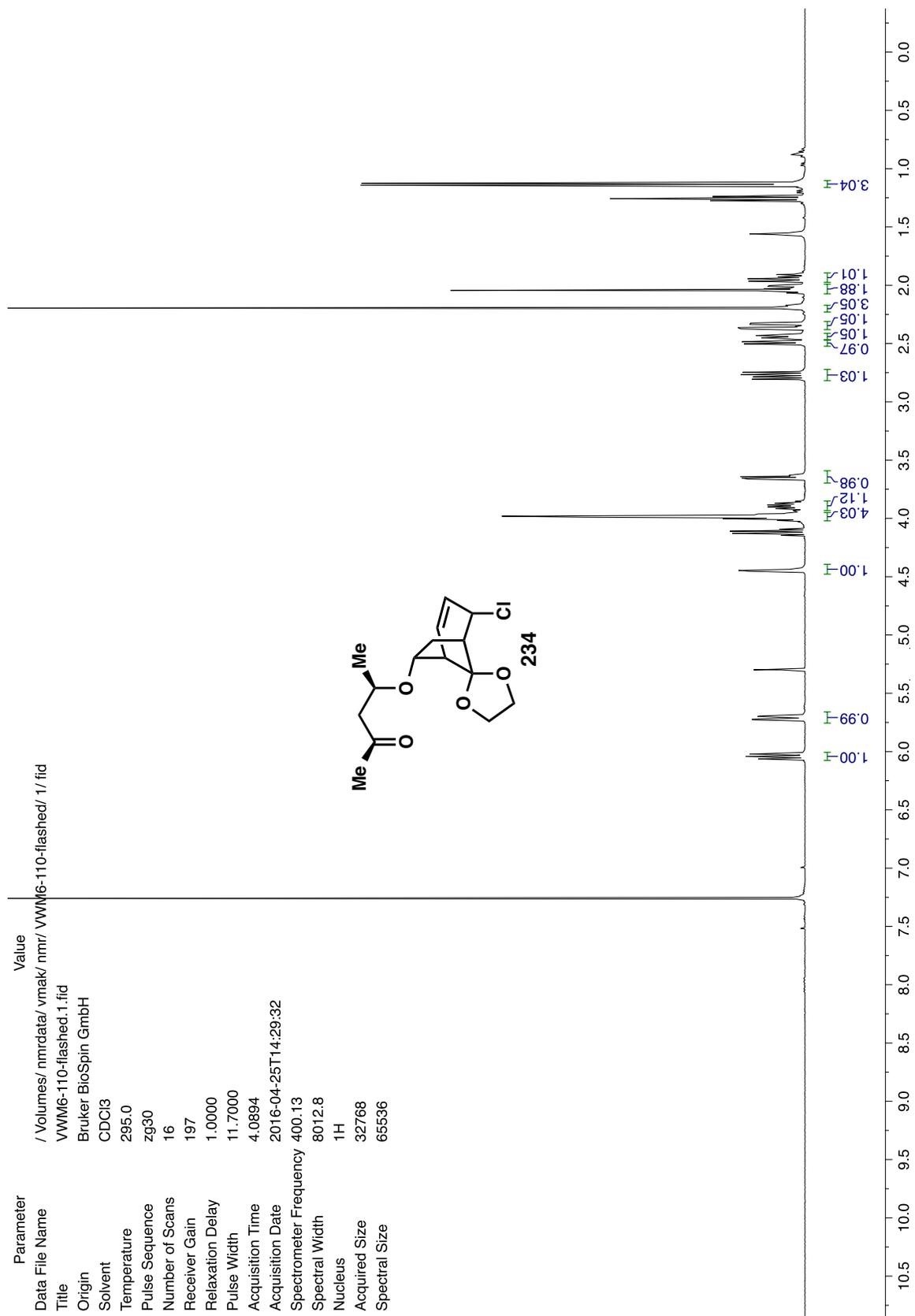
Title PROTON01 Value  
 Origin Varian  
 Solvent cdcl3  
 Temperature 25.0  
 Pulse Sequence s2pul  
 Number of Scans 8  
 Receiver Gain 28  
 Relaxation Delay 1.0000  
 Pulse Width 0.0000  
 Acquisition Time 2.4999  
 Acquisition Date 2015-07-22T22:58:54  
 Spectrometer Frequency 300.09  
 Spectral Width 4796.2  
 Nucleus 1H  
 Acquired Size 11990  
 Spectral Size 65536

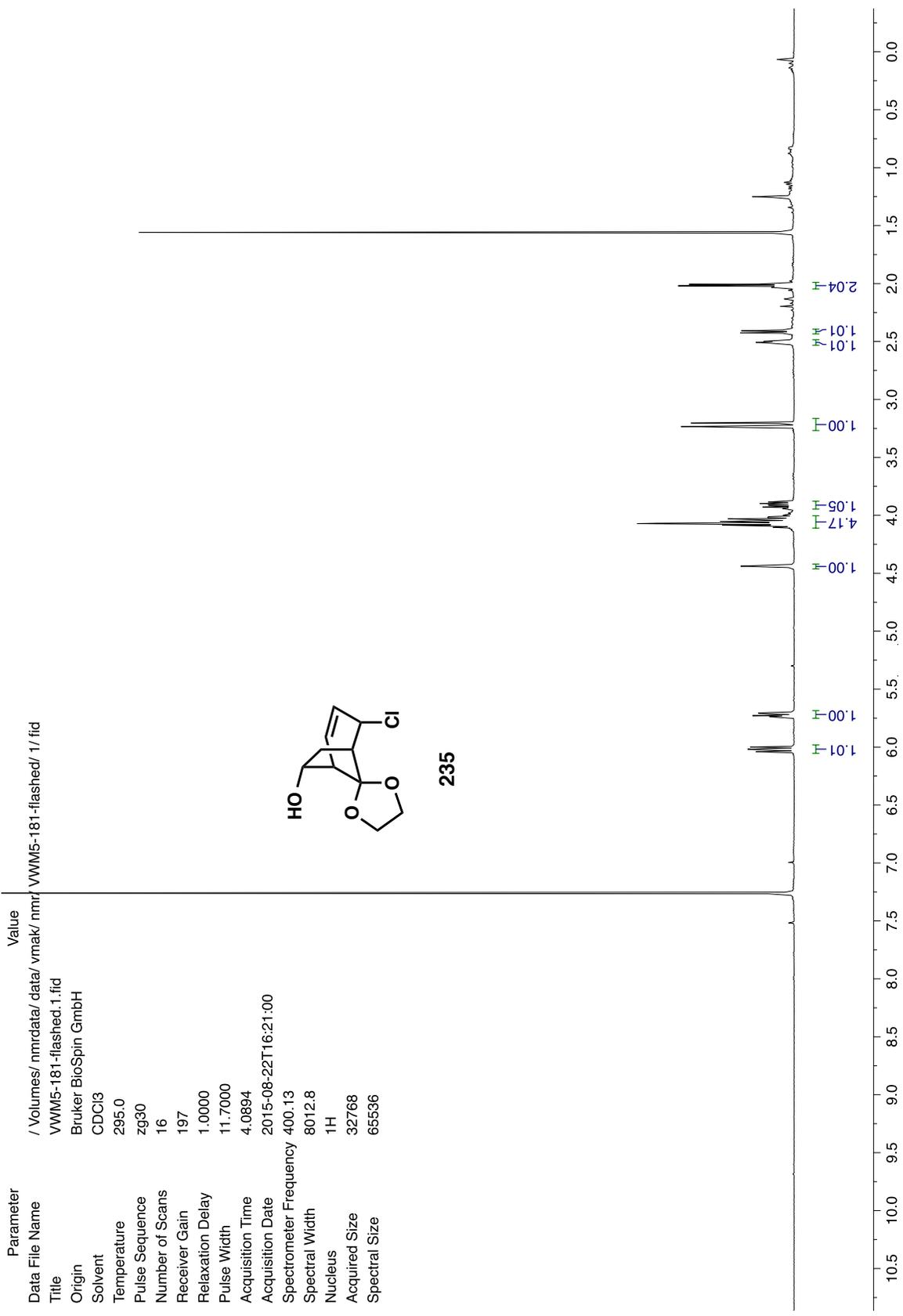




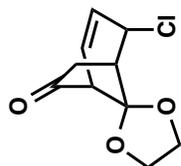




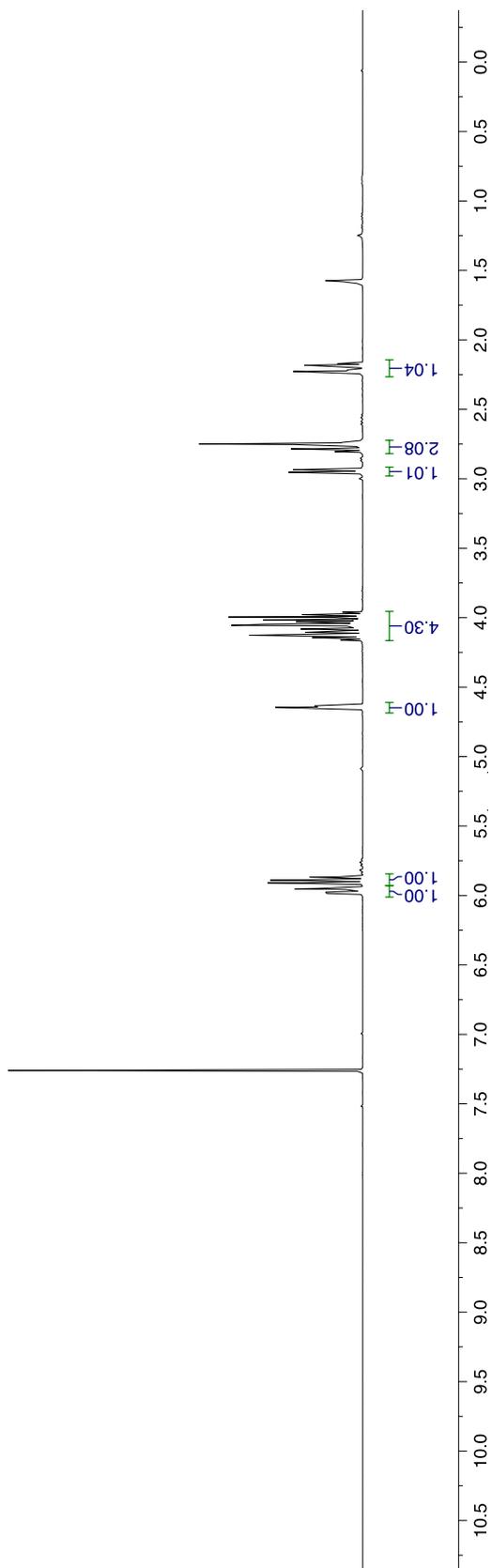


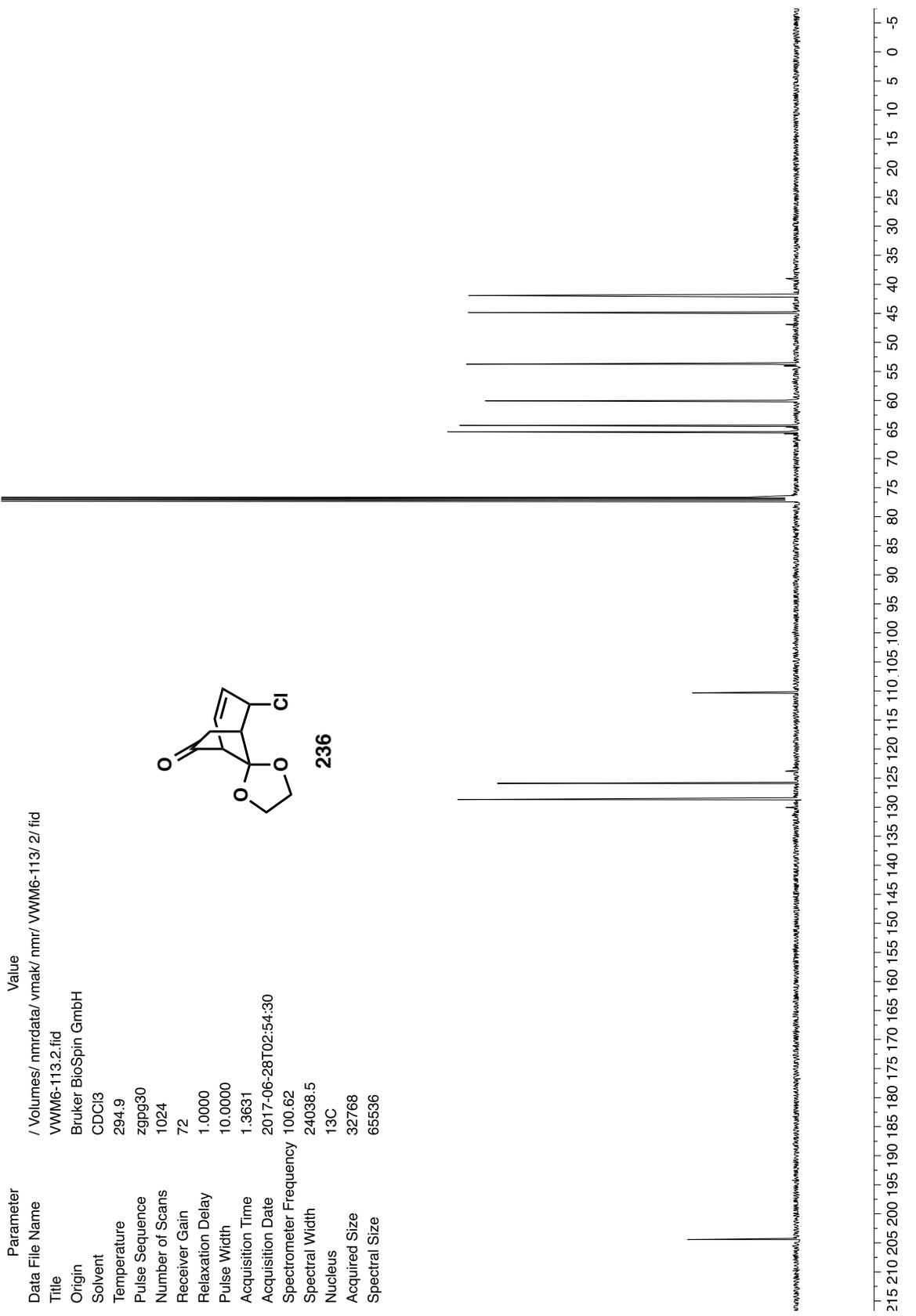


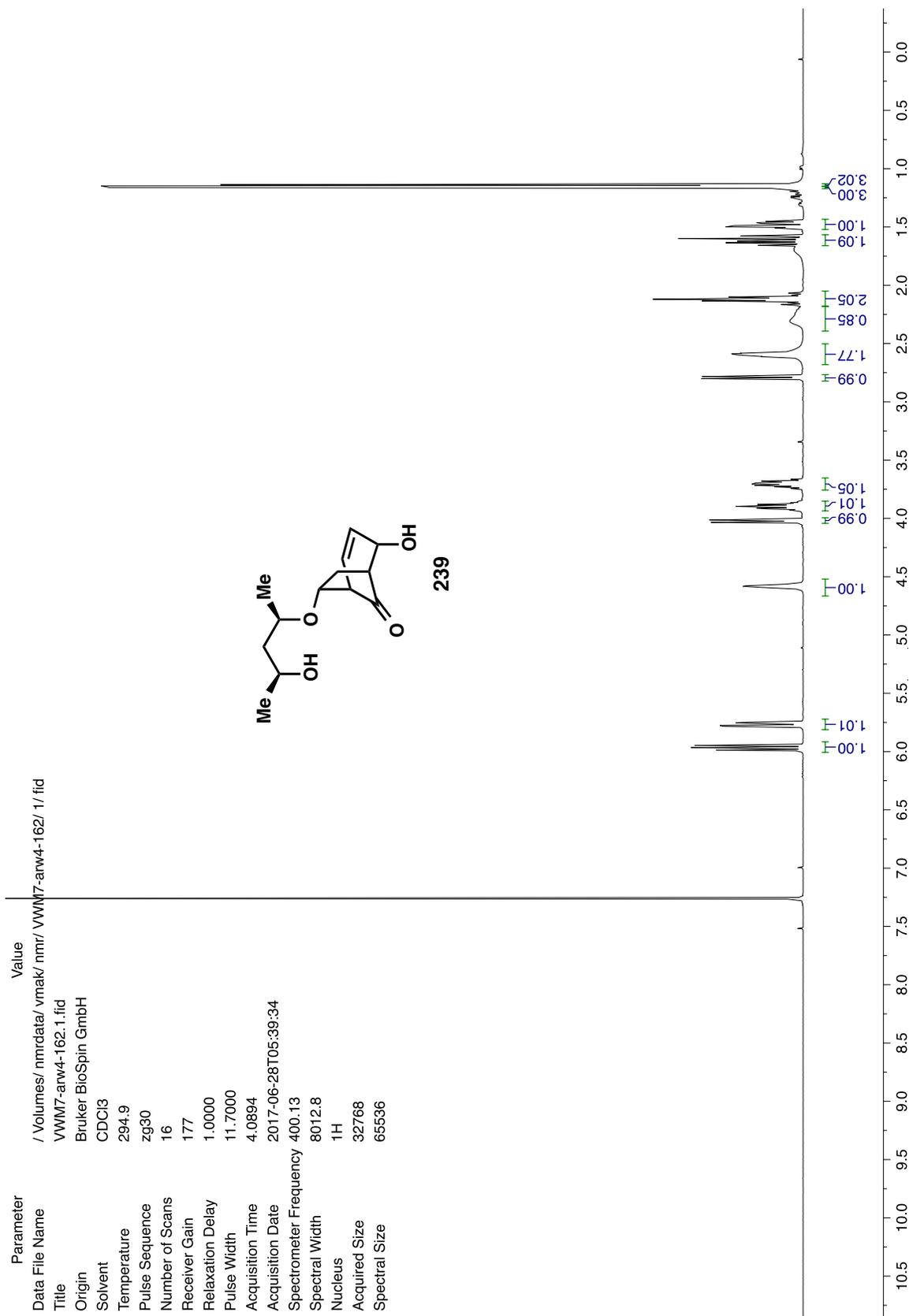
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM6-113/1/fid
Title	VWM6-113_1.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	295.0
Pulse Sequence	zg30
Number of Scans	16
Receiver Gain	177
Relaxation Delay	1.0000
Pulse Width	11.7000
Acquisition Time	4.0894
Acquisition Date	2017-06-28T02:12:35
Spectrometer Frequency	400.13
Spectral Width	8012.8
Nucleus	1H
Acquired Size	32768
Spectral Size	65536

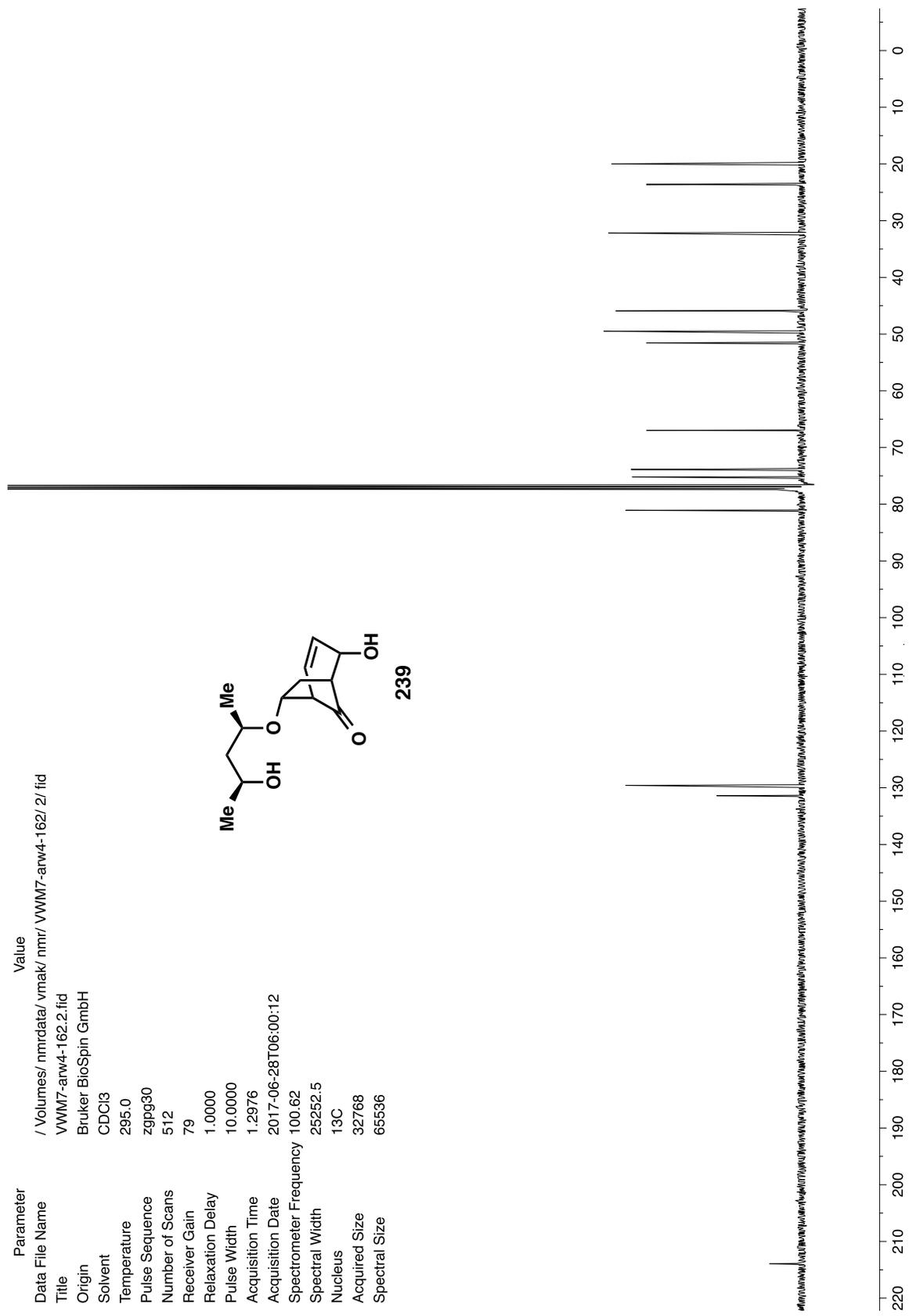


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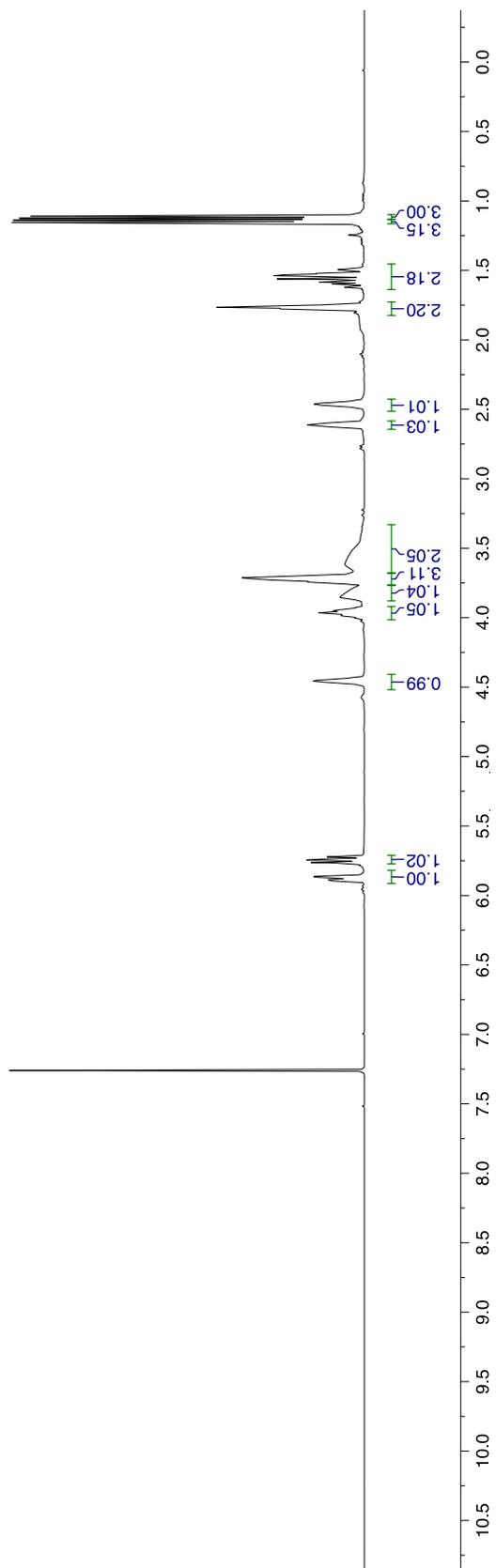
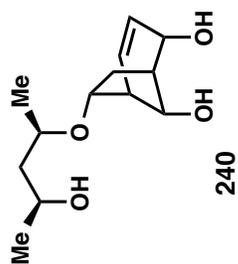




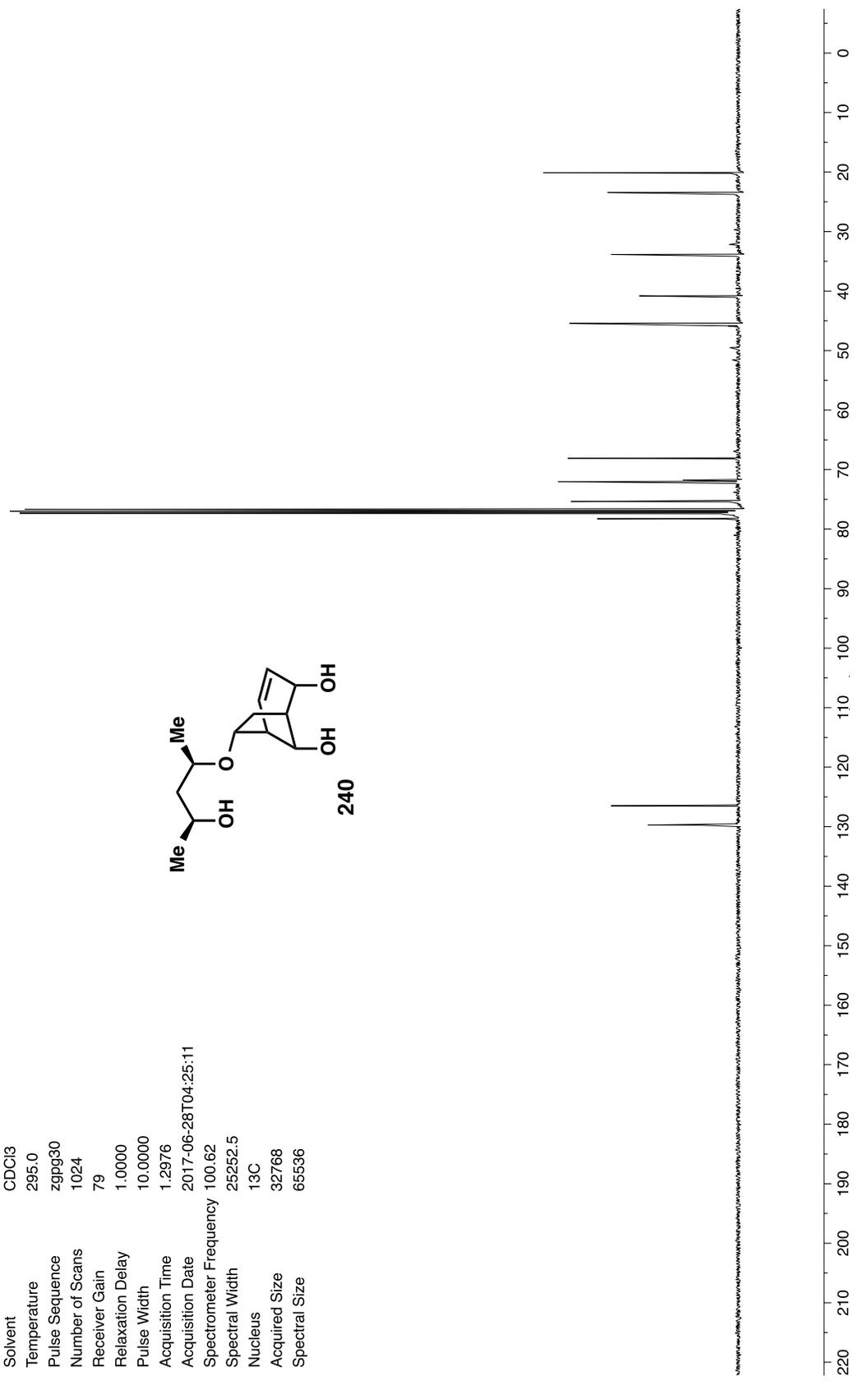
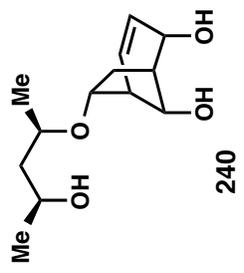


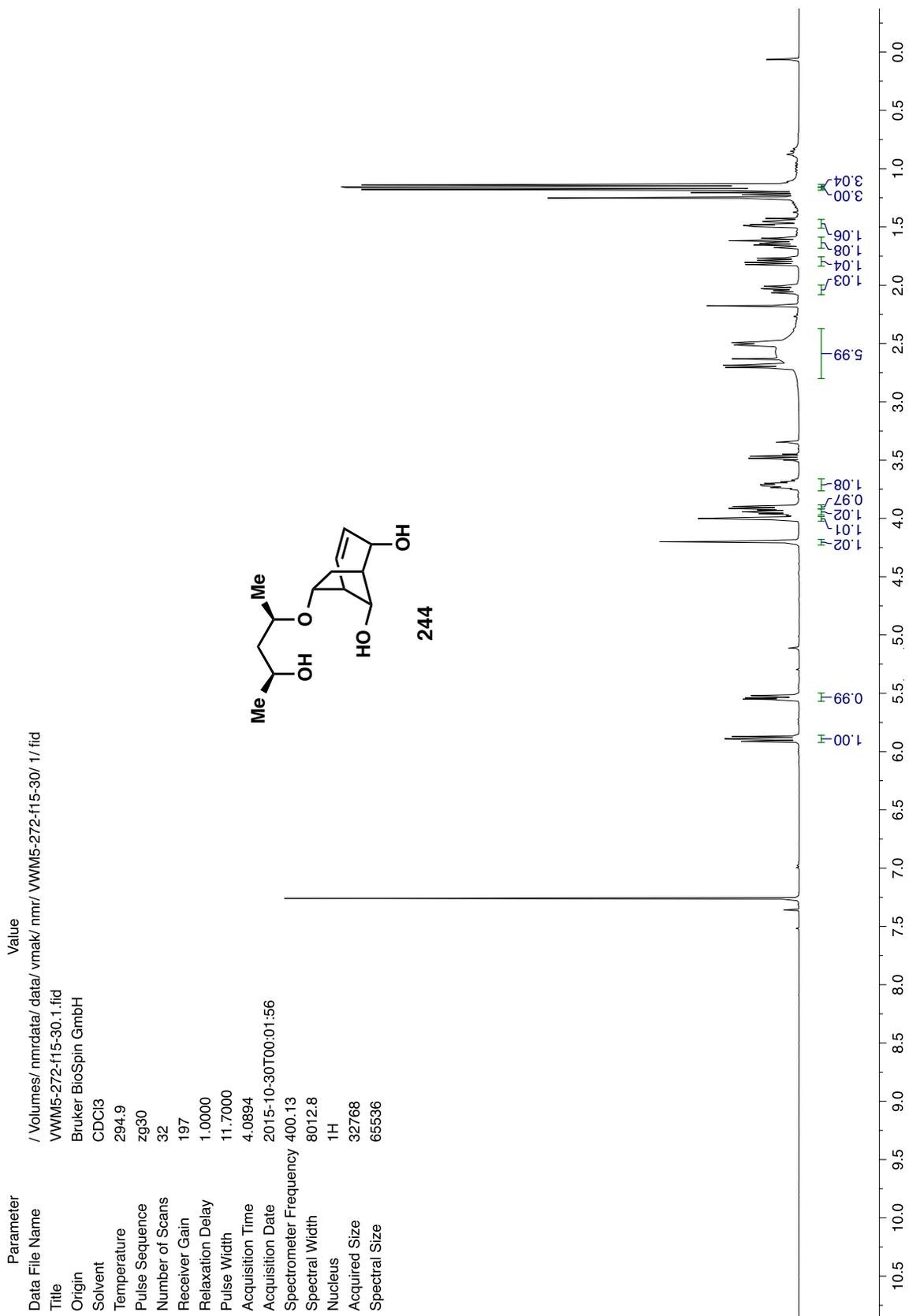


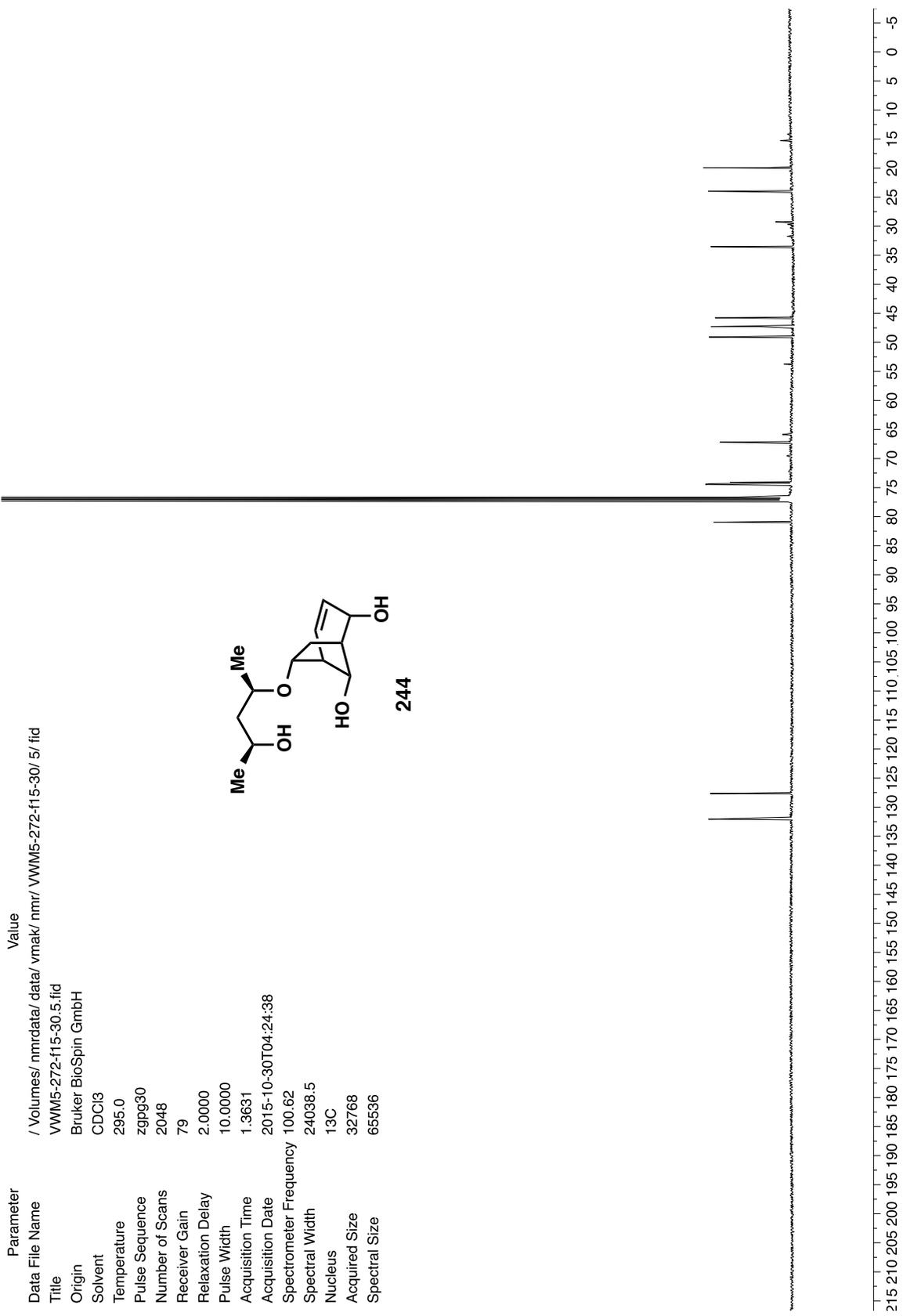
Parameter Value  
 Data File Name / Volumes/nmrdata/vmak/nmr/VWM7-arw4-163/ 1/ fid  
 Title VWM7-arw4-163.1.fid  
 Origin Bruker BioSpin GmbH  
 Solvent CDCl3  
 Temperature 295.0  
 Pulse Sequence zg30  
 Number of Scans 16  
 Receiver Gain 127  
 Relaxation Delay 1.0000  
 Pulse Width 11.7000  
 Acquisition Time 4.0894  
 Acquisition Date 2017-06-28T03:44:24  
 Spectrometer Frequency 400.13  
 Spectral Width 8012.8  
 Nucleus 1H  
 Acquired Size 32768  
 Spectral Size 65536

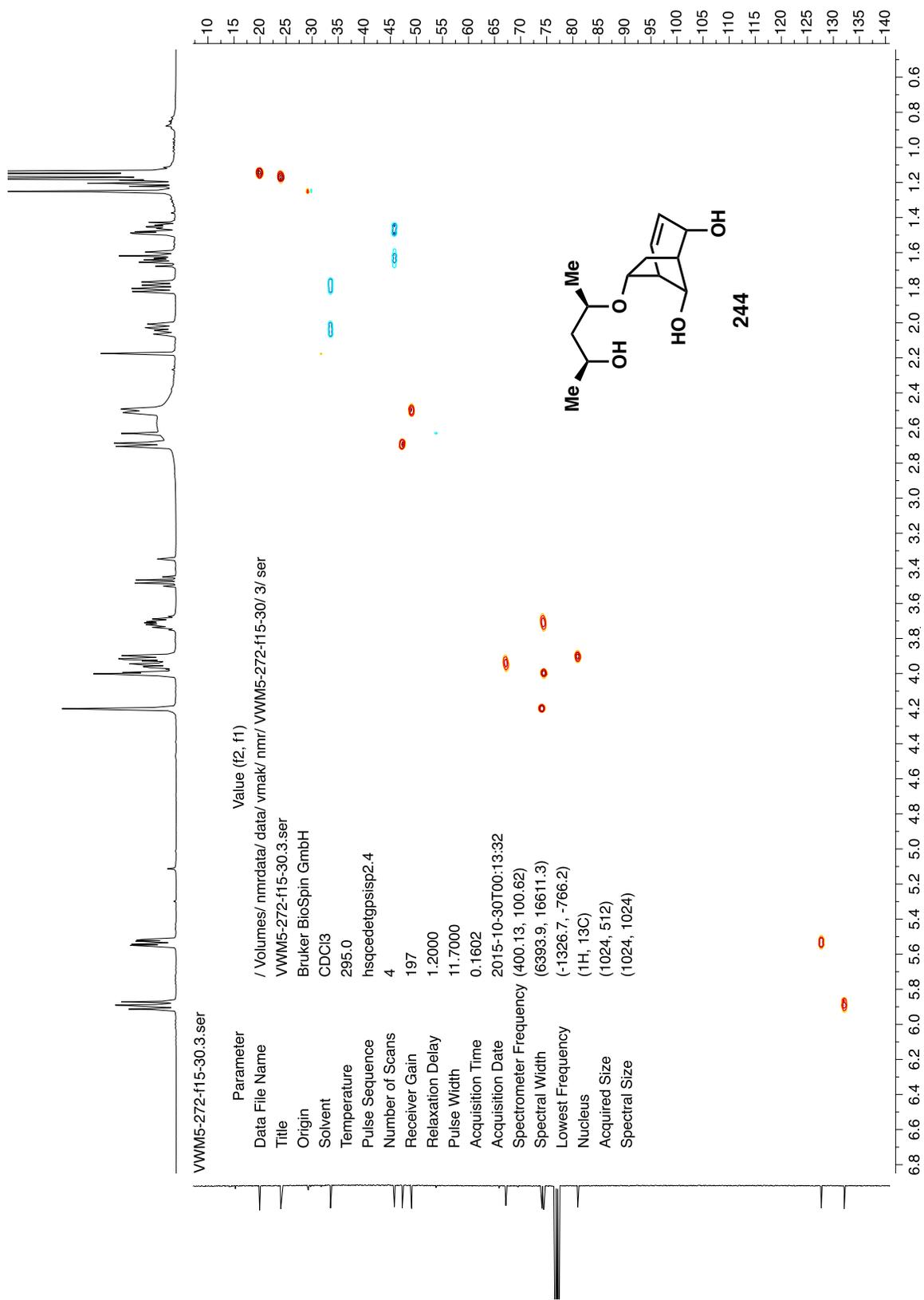


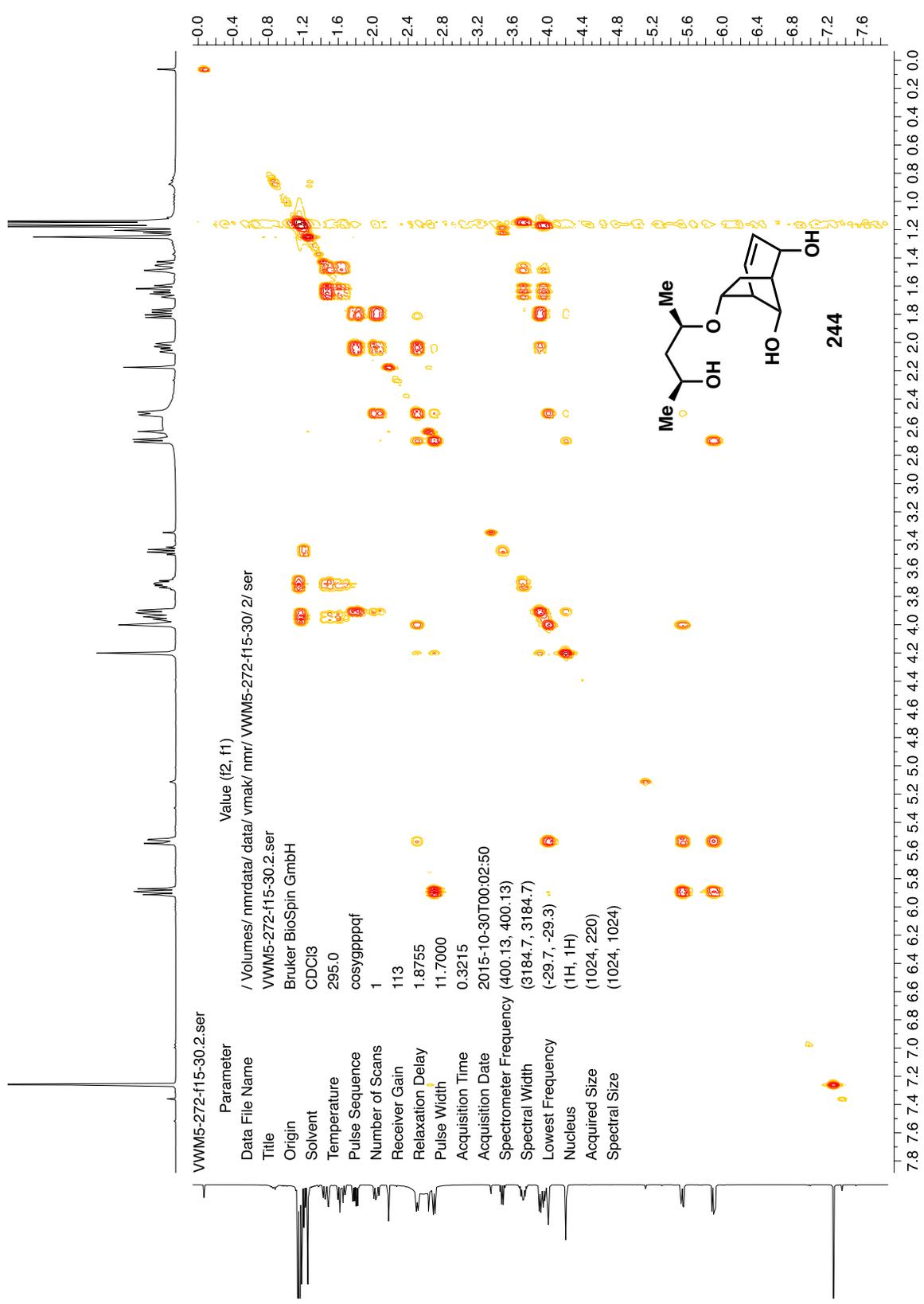
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM7-arw4-163/2/ fid
Title	VWM7-arw4-163.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	295.0
Pulse Sequence	zgpg30
Number of Scans	1024
Receiver Gain	79
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.2976
Acquisition Date	2017-06-28T04:25:11
Spectrometer Frequency	100.62
Spectral Width	25252.5
Nucleus	13C
Acquired Size	32768
Spectral Size	65536

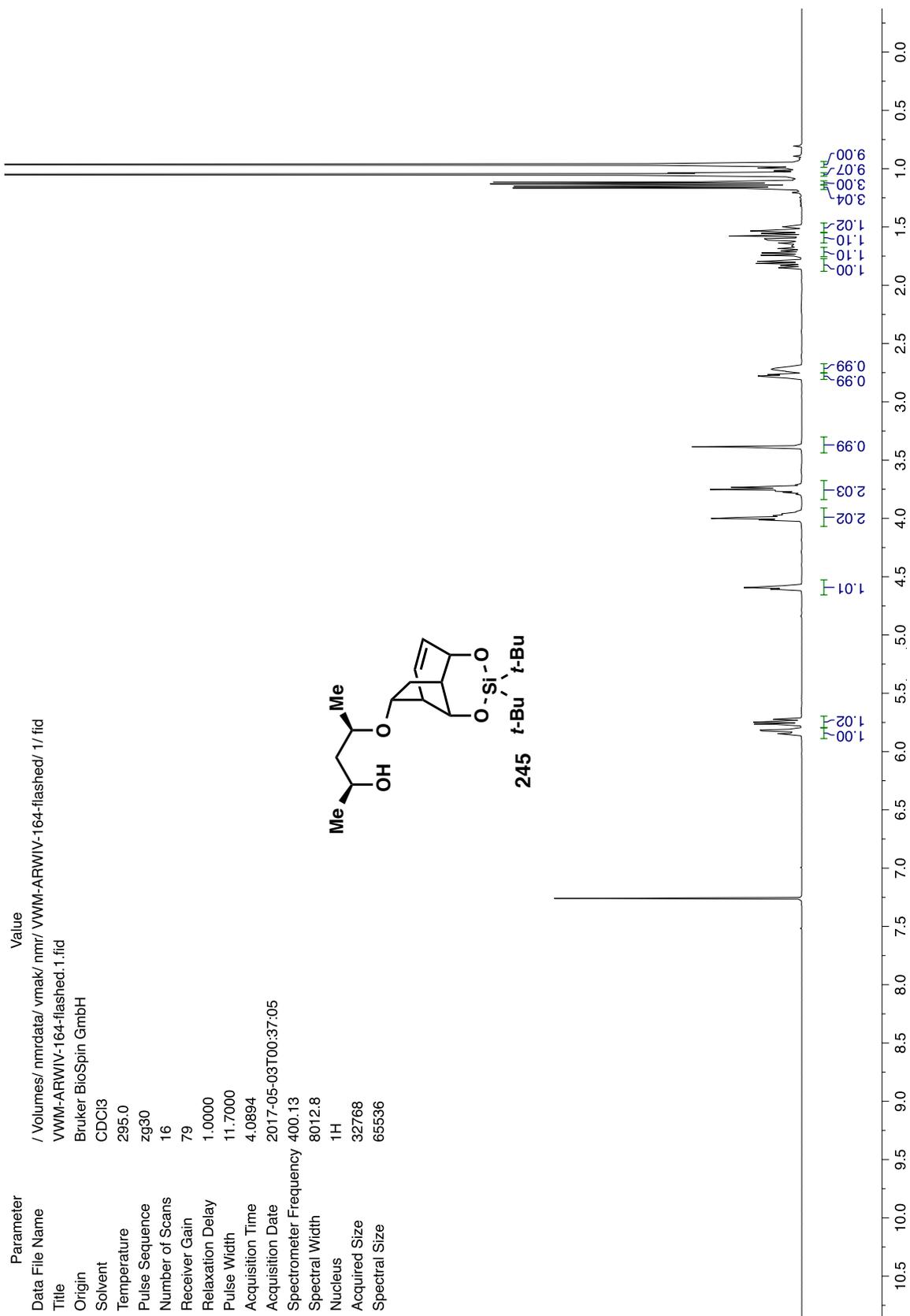


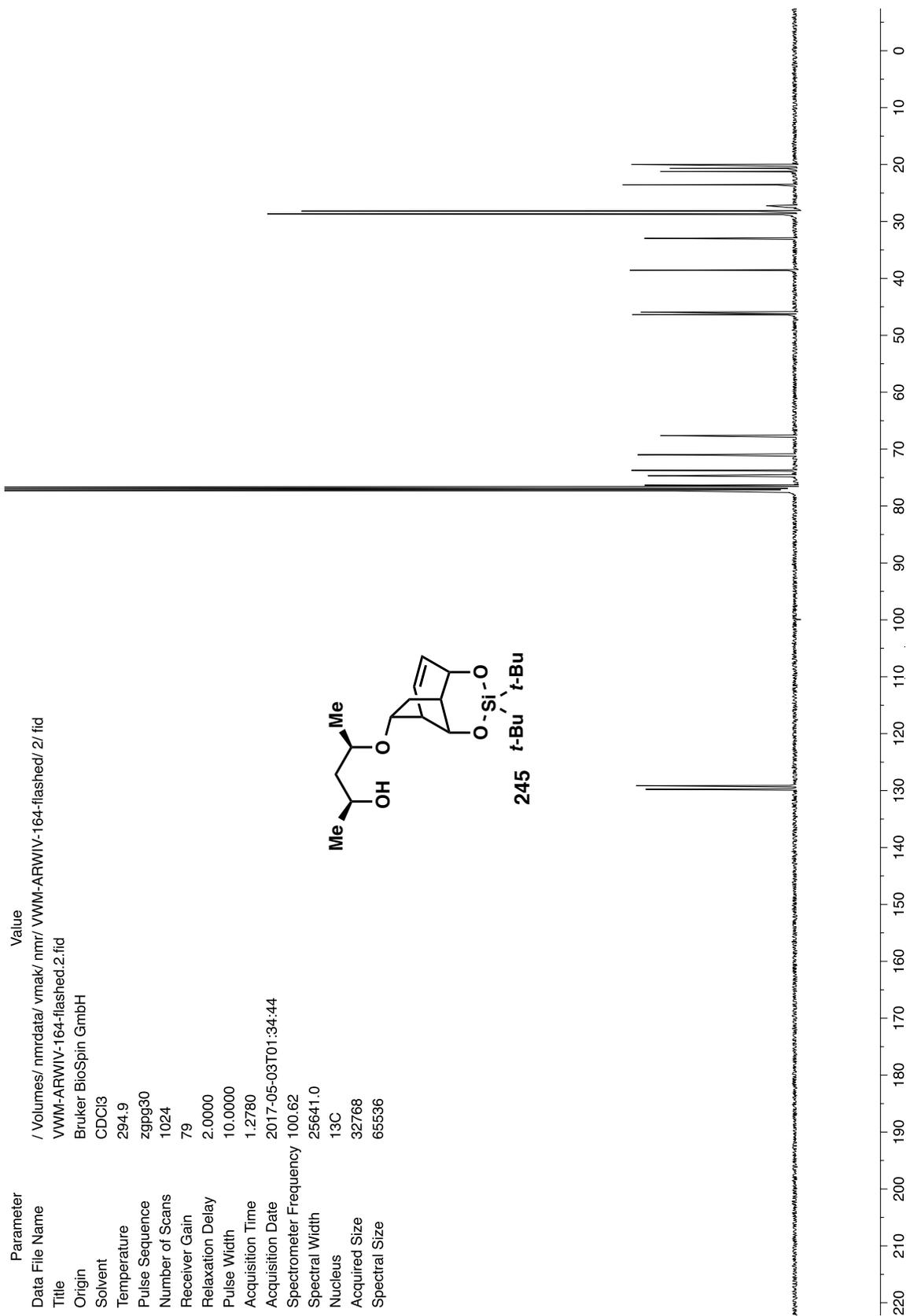


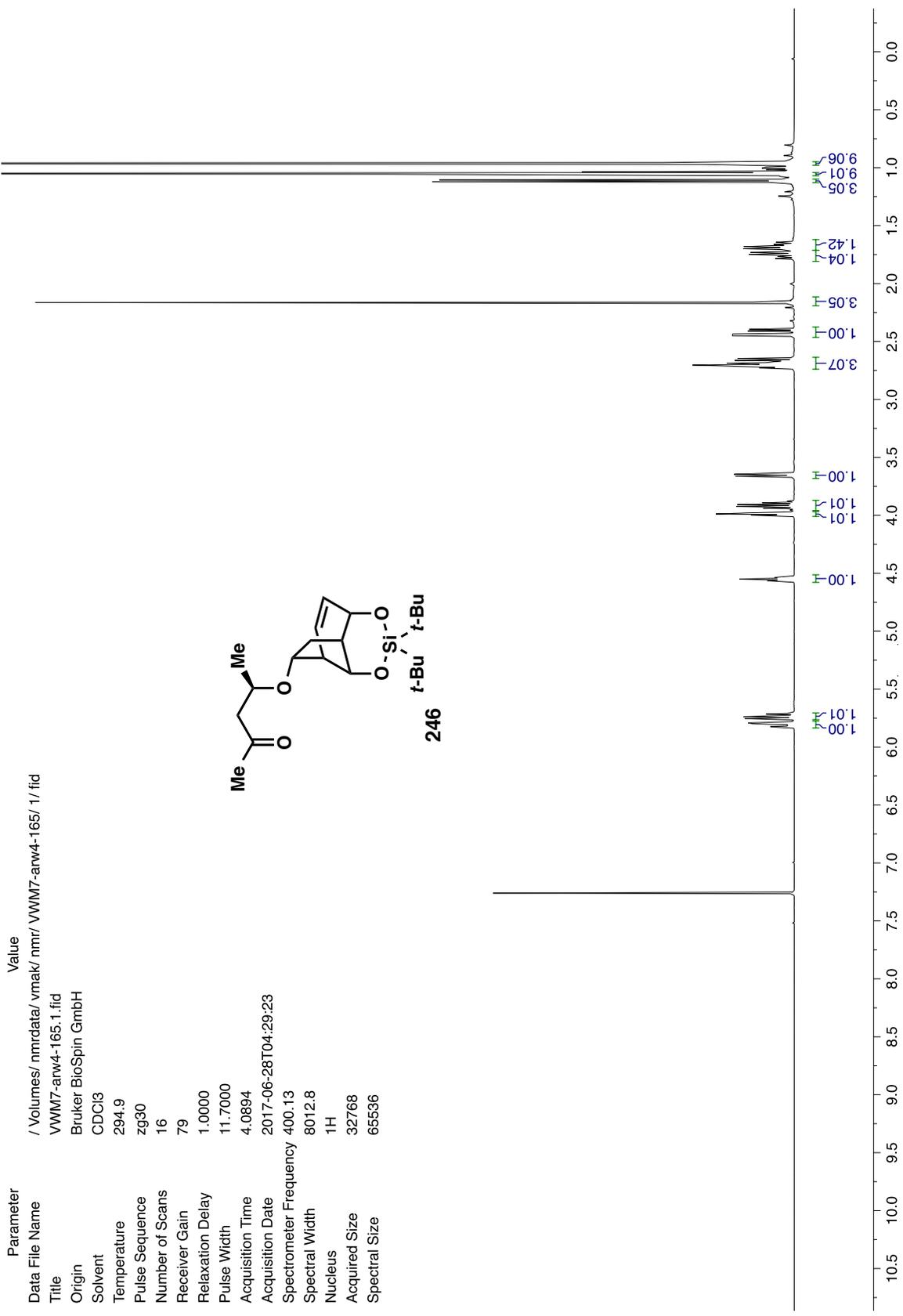


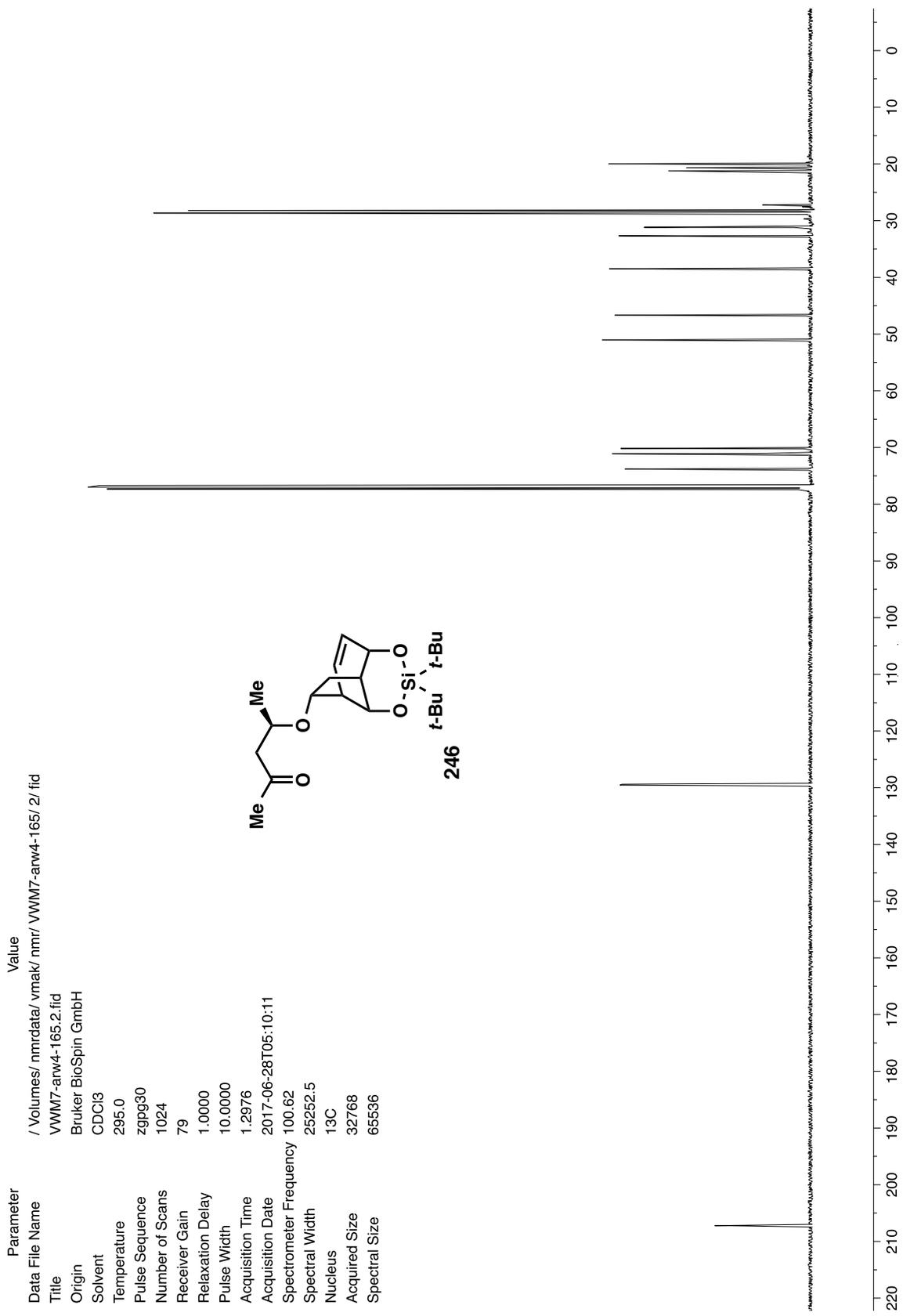


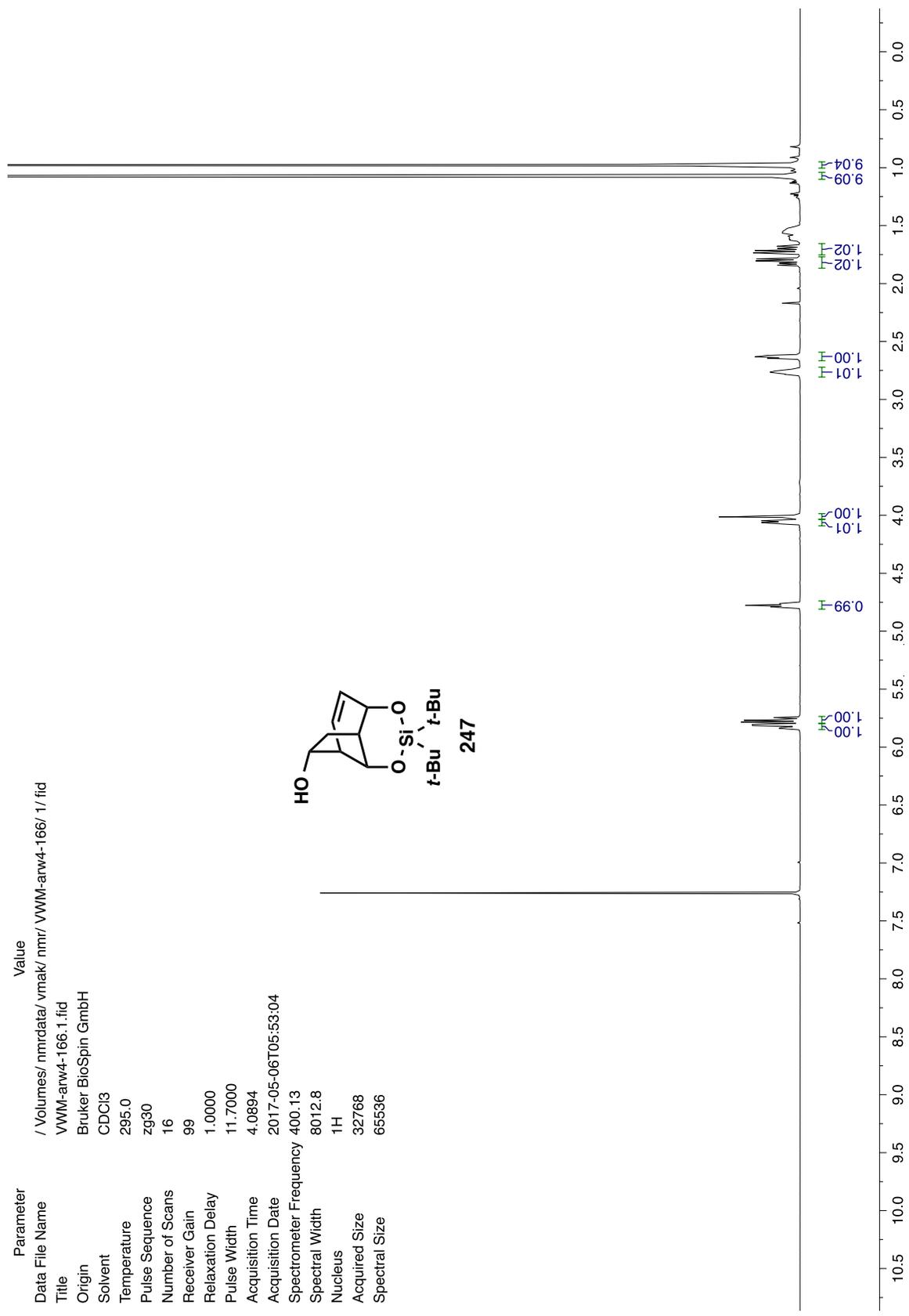




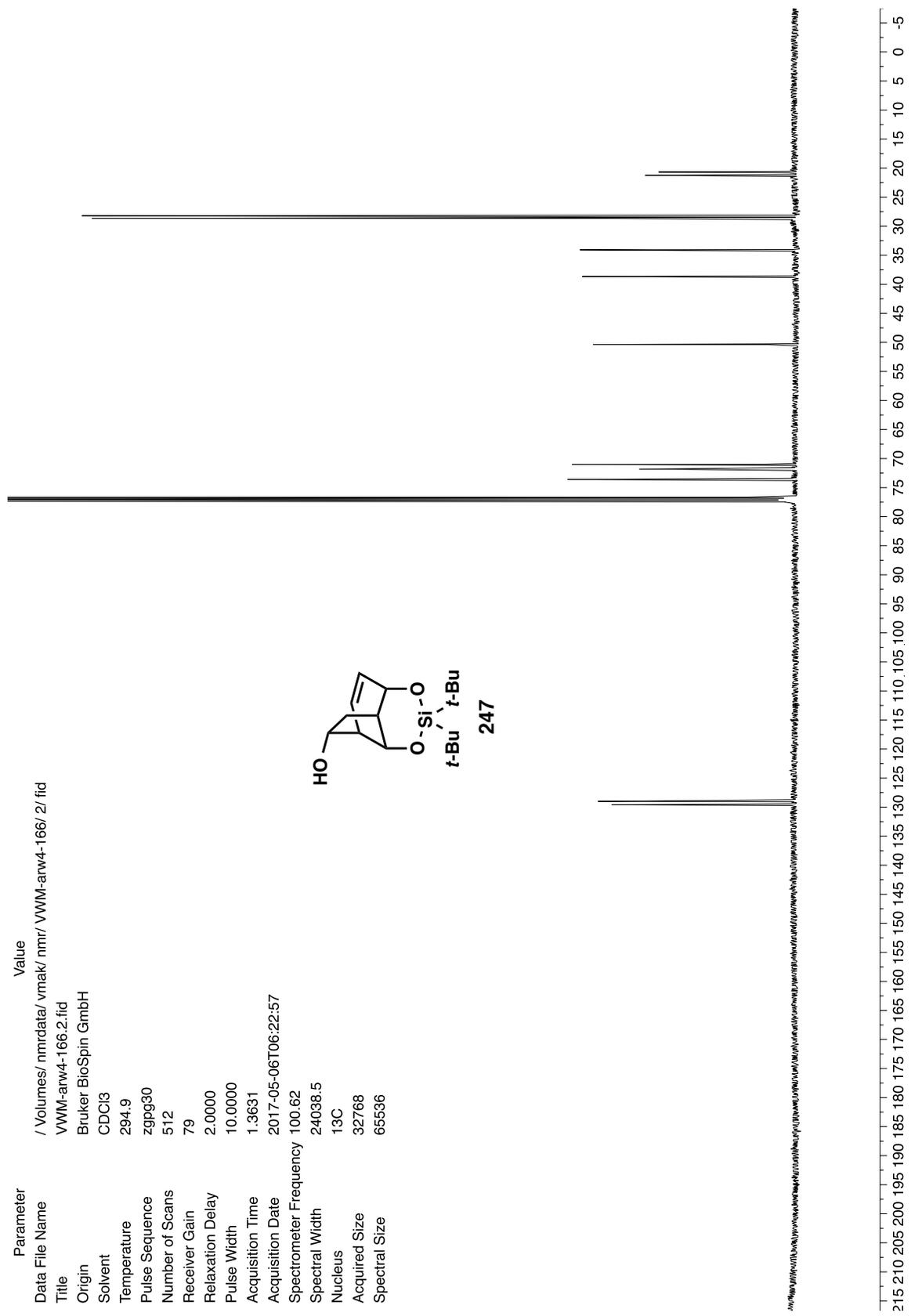


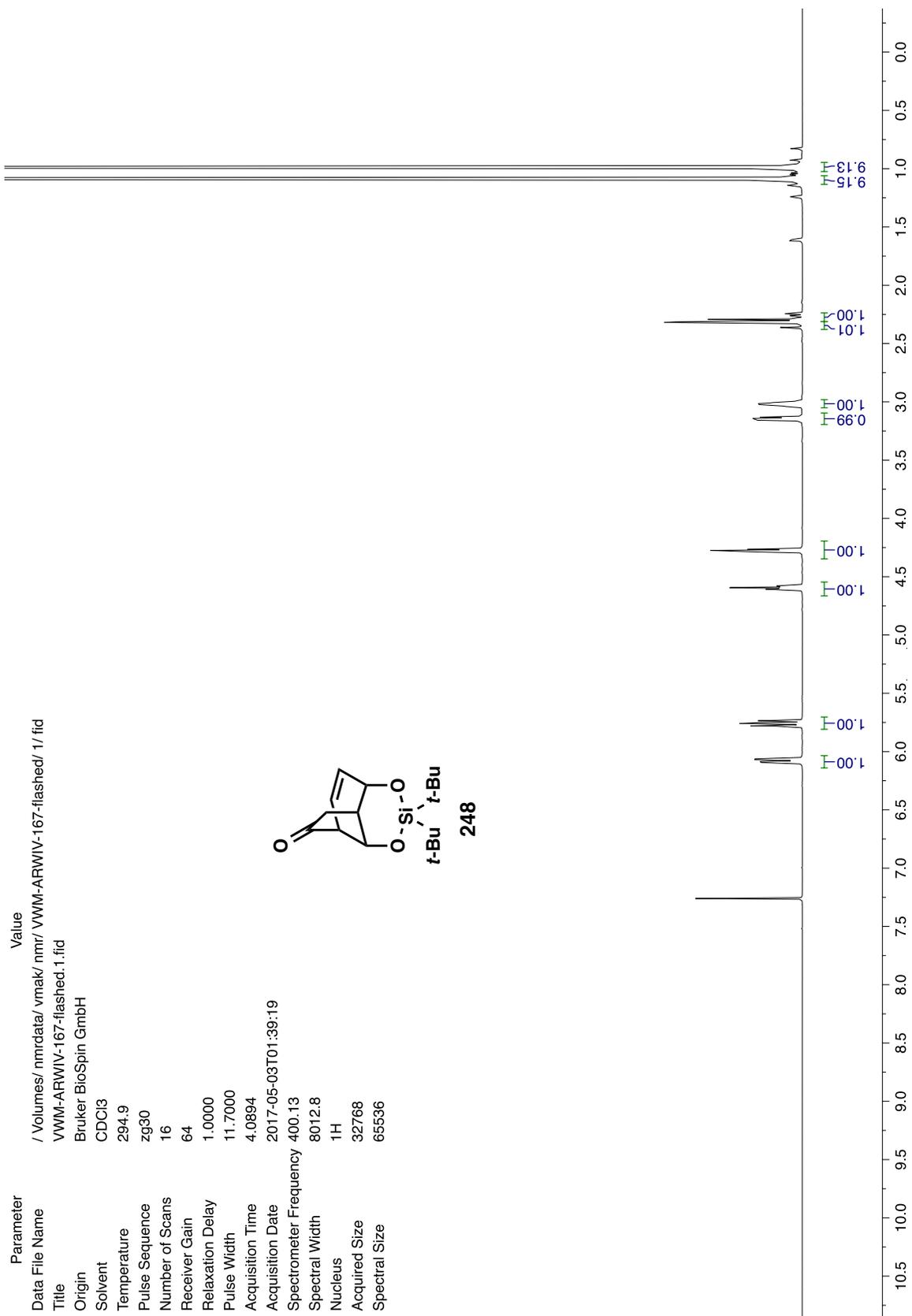




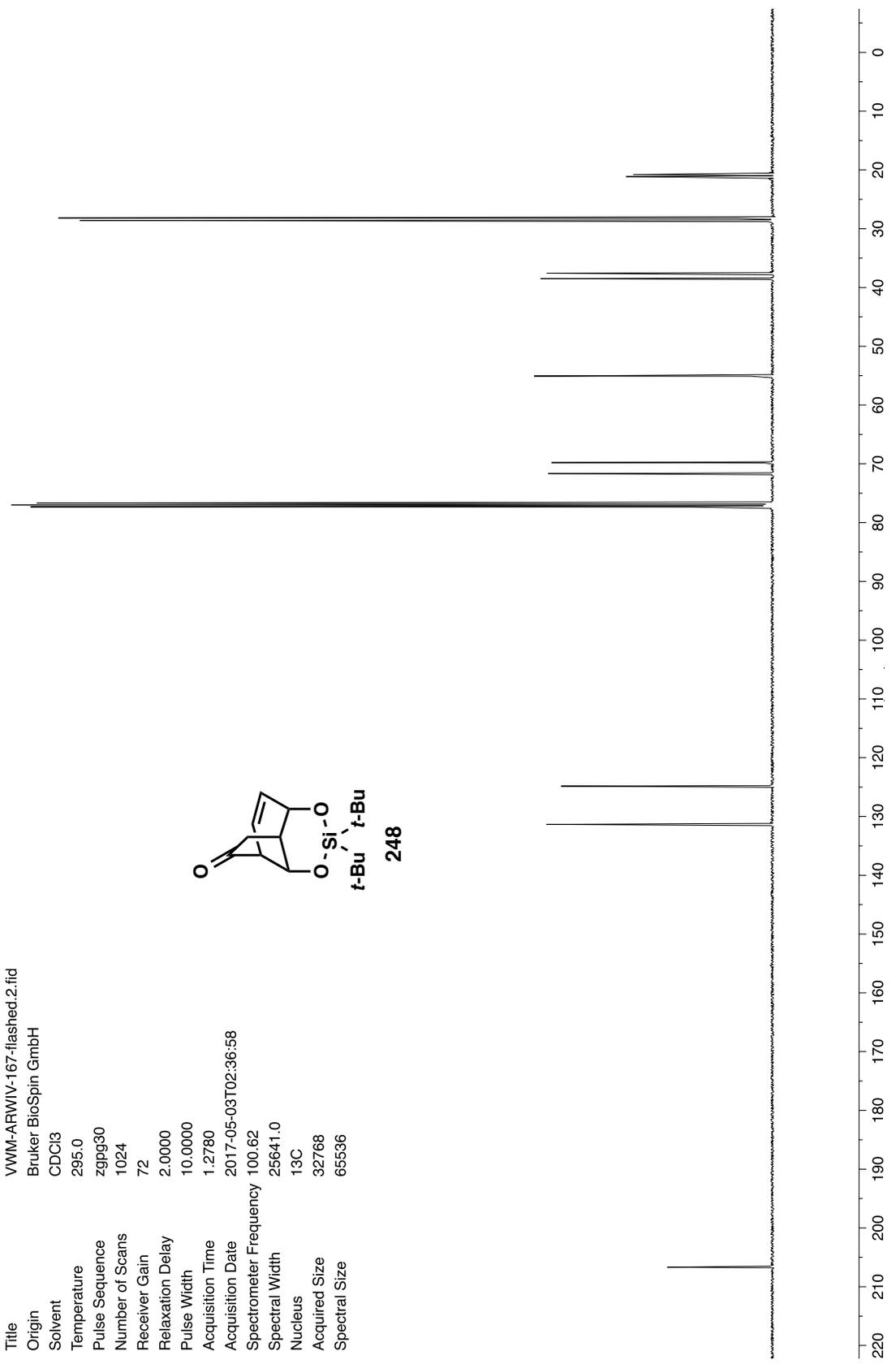
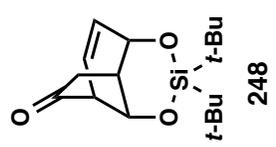


Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM-arw4-166/1/fid
Title	VWM-arw4-166.1.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	295.0
Pulse Sequence	zg30
Number of Scans	16
Receiver Gain	99
Relaxation Delay	1.0000
Pulse Width	11.7000
Acquisition Time	4.0894
Acquisition Date	2017-05-06T05:53:04
Spectrometer Frequency	400.13
Spectral Width	8012.8
Nucleus	1H
Acquired Size	32768
Spectral Size	65536



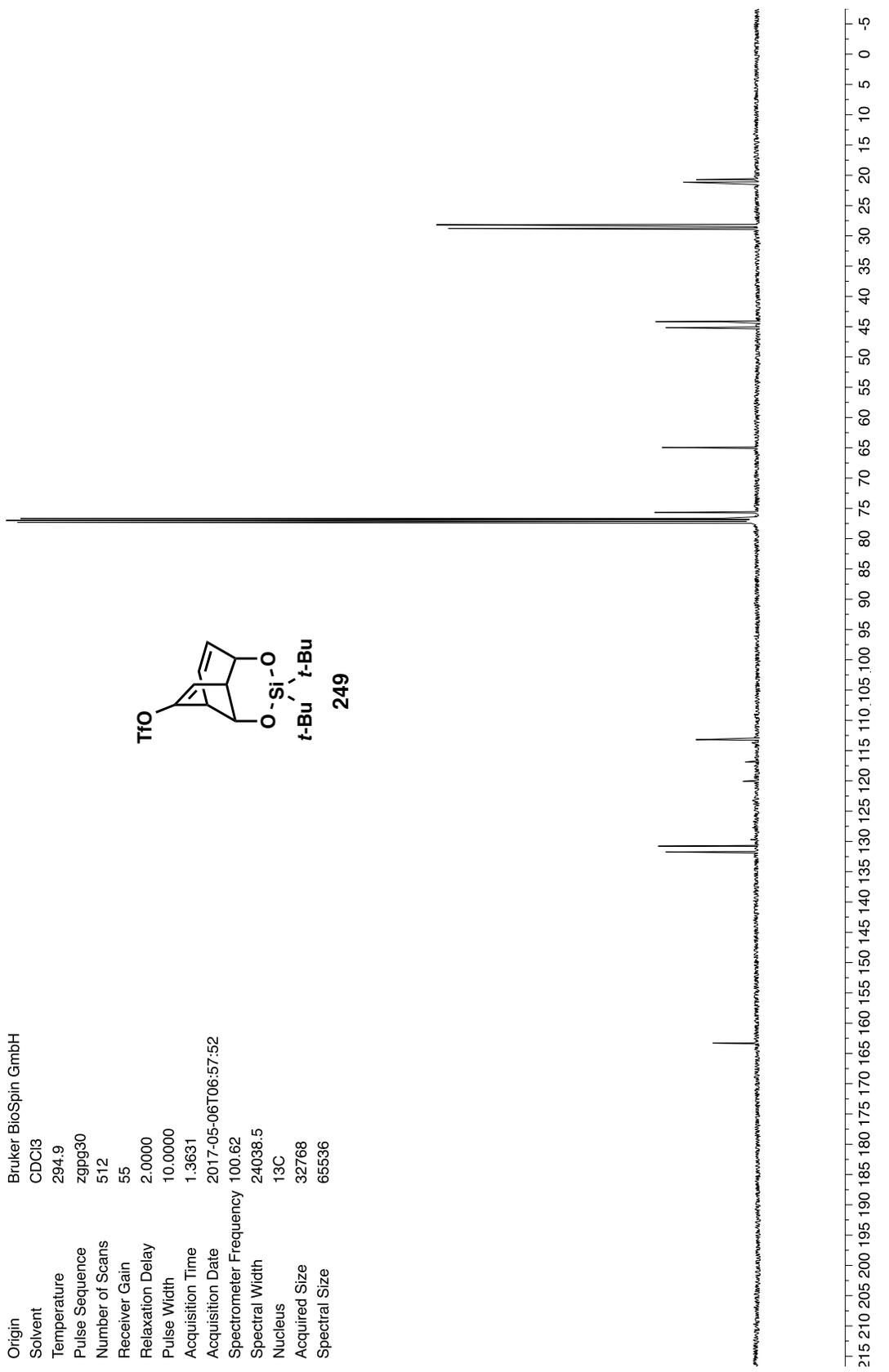
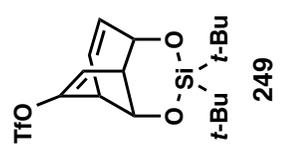


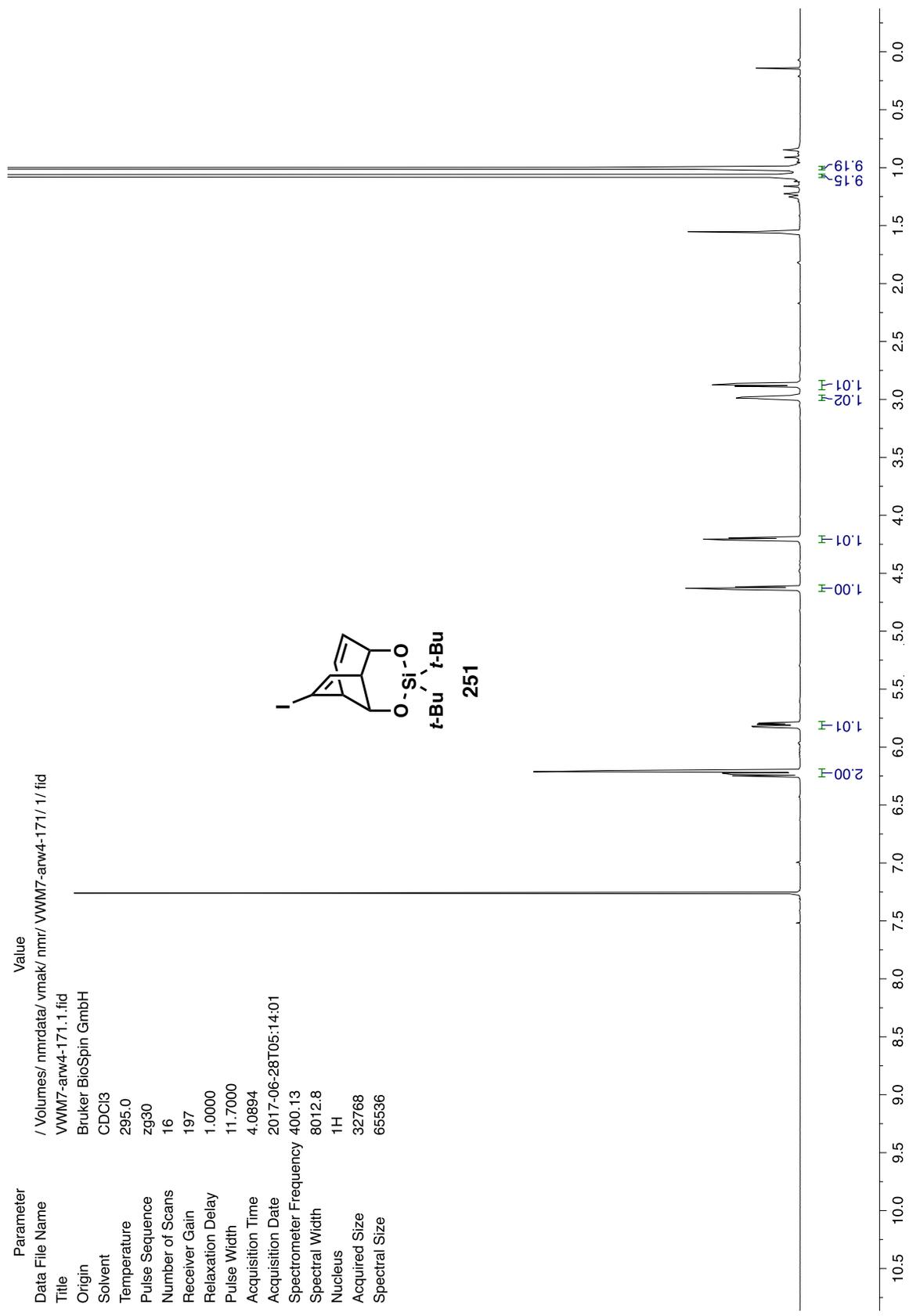
Parameter Value  
 Data File Name / Volumes/ nmrdata/ vmak/ nmr/ VWM-ARWIV-167-flashed/ 2/ fid  
 Title VWM-ARWIV-167-flashed.2.fid  
 Origin Bruker BioSpin GmbH  
 Solvent CDCl3  
 Temperature 295.0  
 Pulse Sequence zgpg30  
 Number of Scans 1024  
 Receiver Gain 72  
 Relaxation Delay 2.0000  
 Pulse Width 10.0000  
 Acquisition Time 1.2780  
 Acquisition Date 2017-05-03T02:36:58  
 Spectrometer Frequency 100.62  
 Spectral Width 25641.0  
 Nucleus 13C  
 Acquired Size 32768  
 Spectral Size 65536

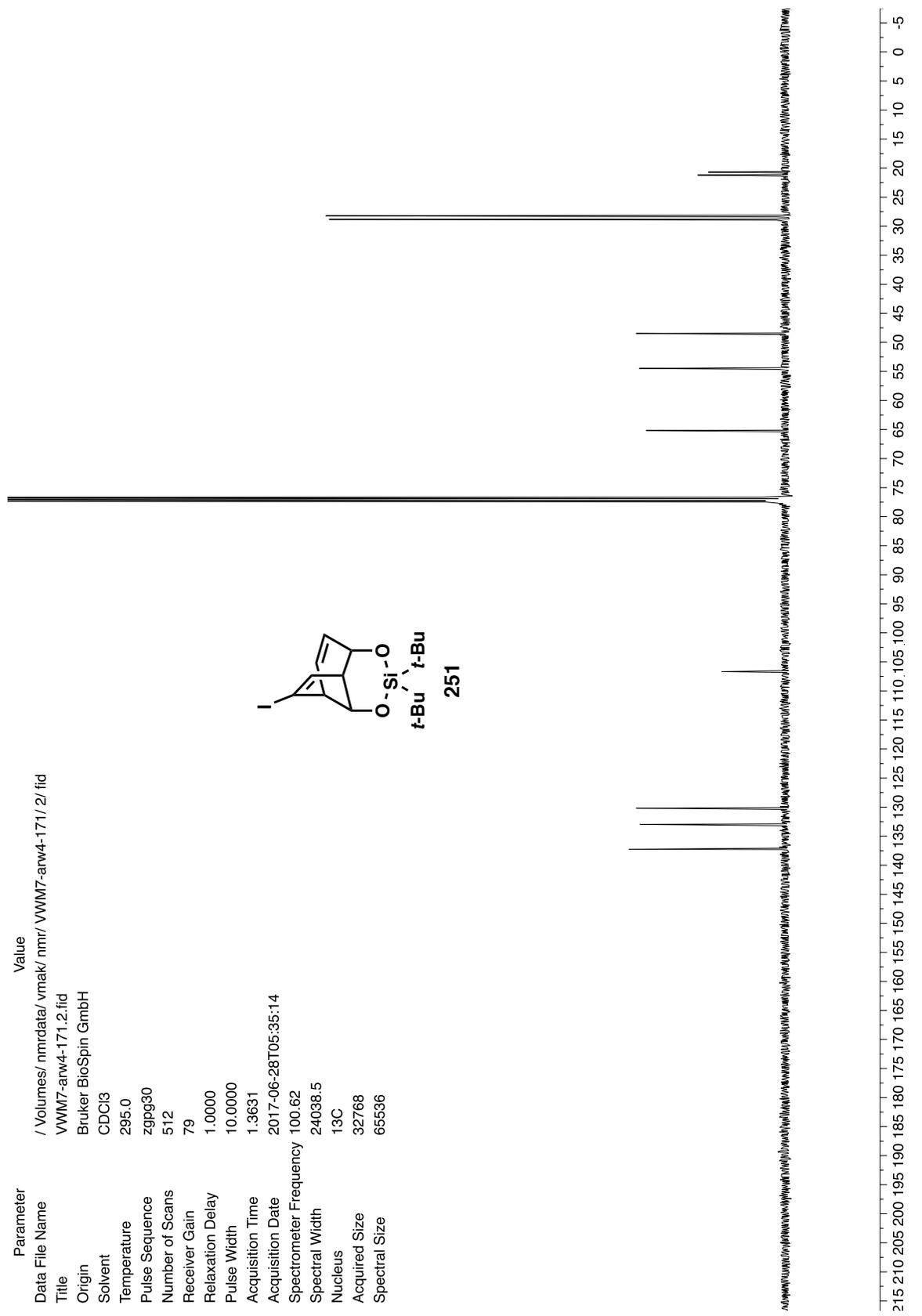


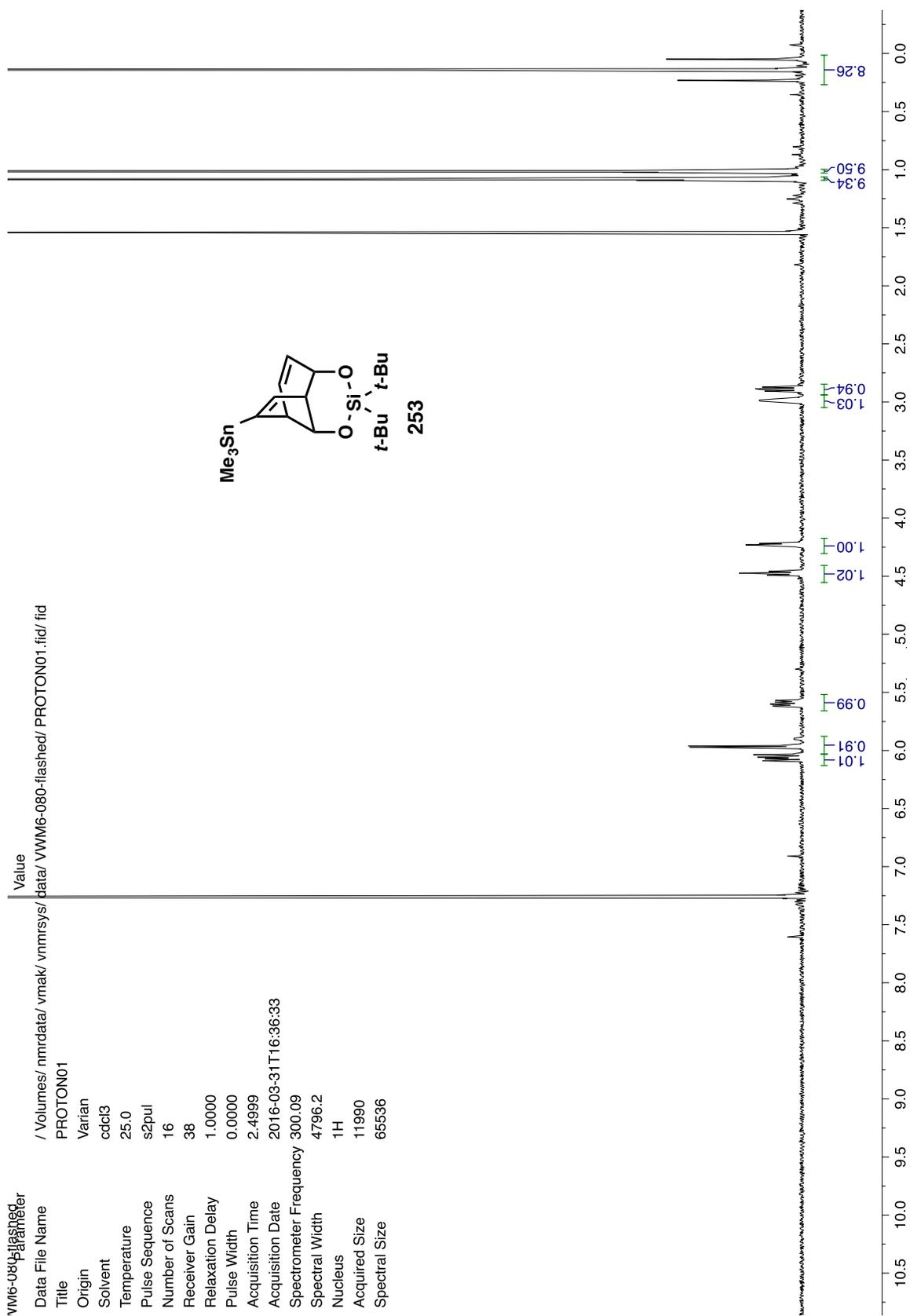


Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM-arw4-168/2/ fid
Title	VWM-arw4-168.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	294.9
Pulse Sequence	zgpg30
Number of Scans	512
Receiver Gain	55
Relaxation Delay	2.0000
Pulse Width	10.0000
Acquisition Time	1.3631
Acquisition Date	2017-05-06T06:57:52
Spectrometer Frequency	100.62
Spectral Width	24038.5
Nucleus	<sup>13</sup> C
Acquired Size	32768
Spectral Size	65536

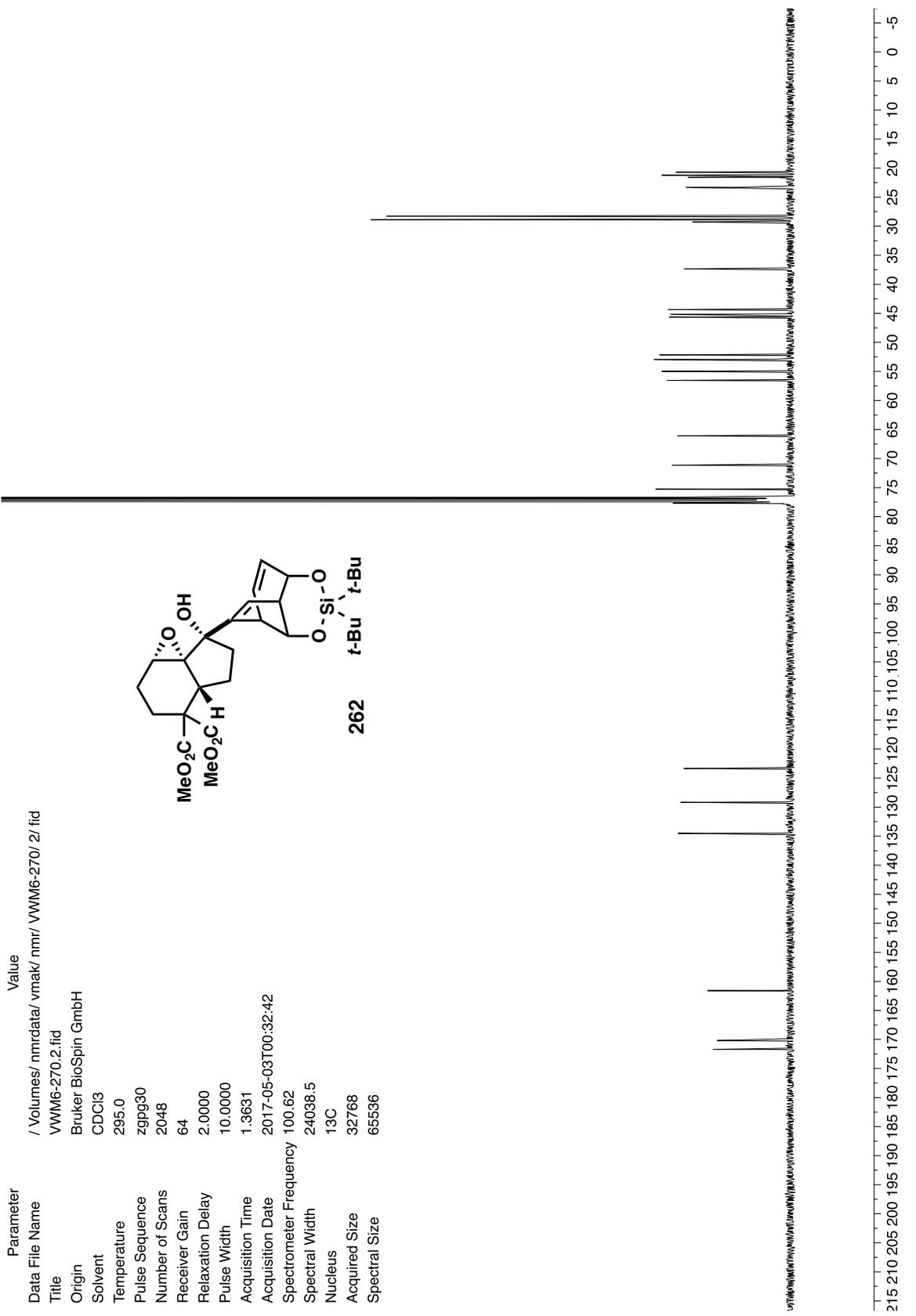


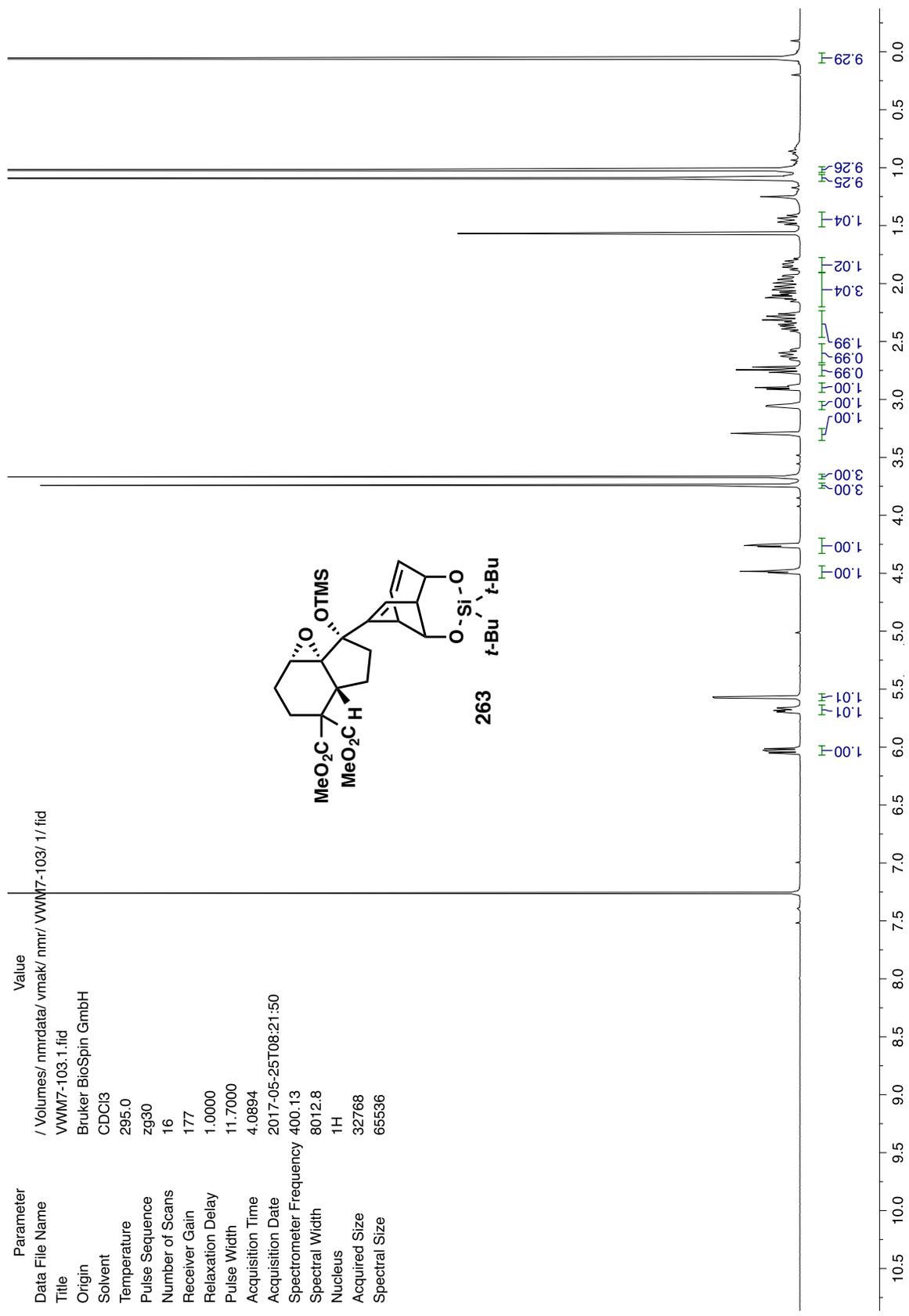


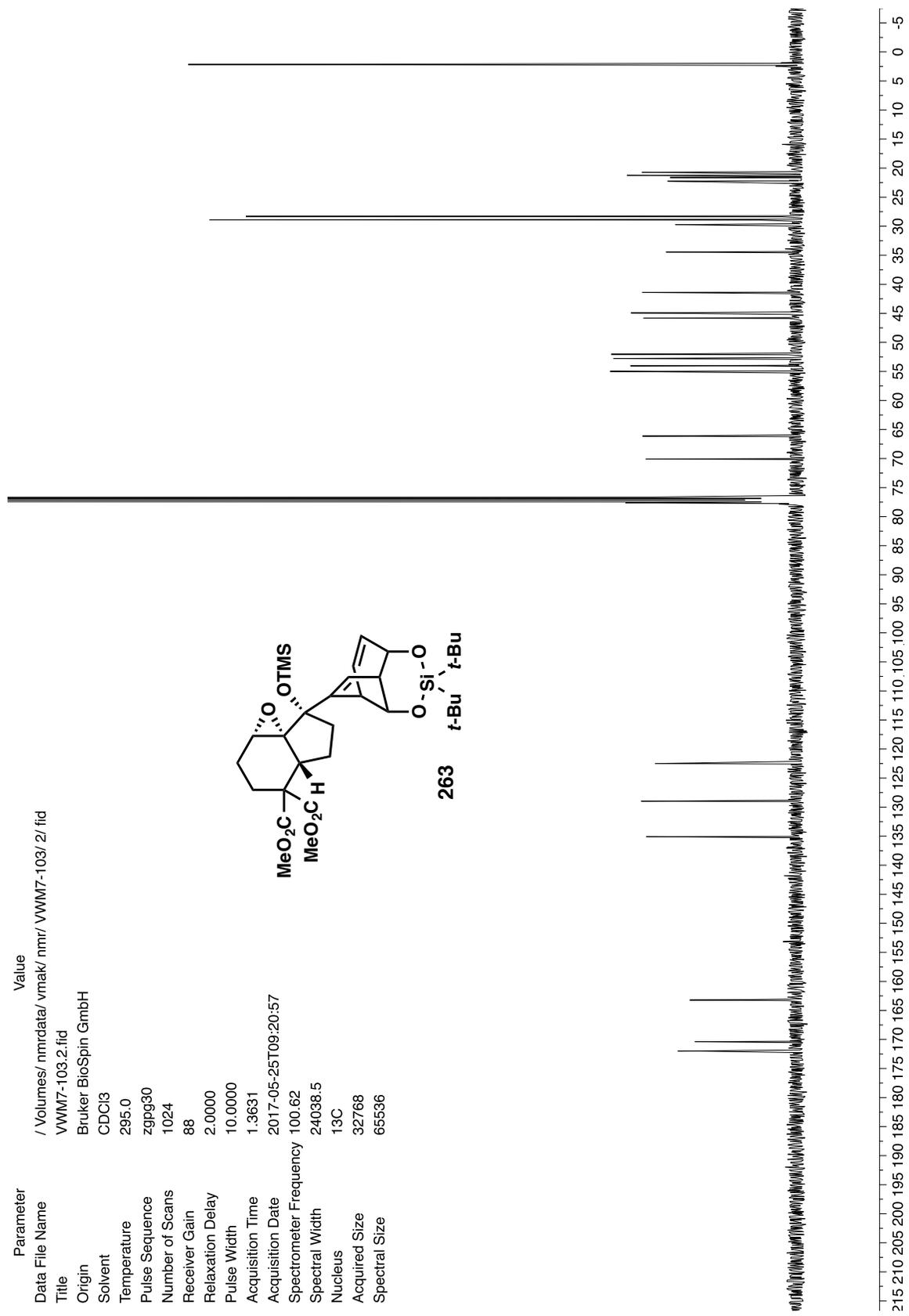


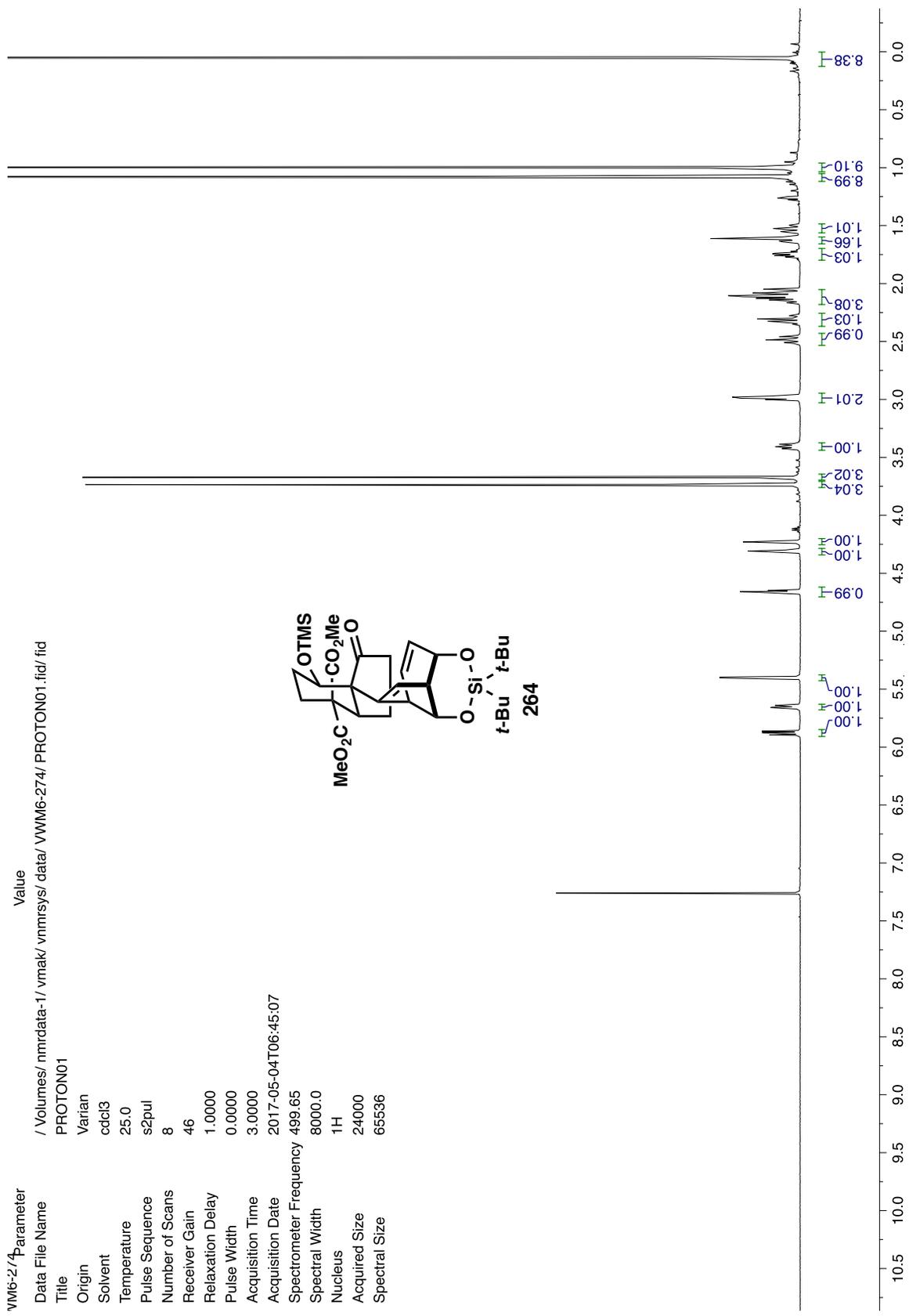


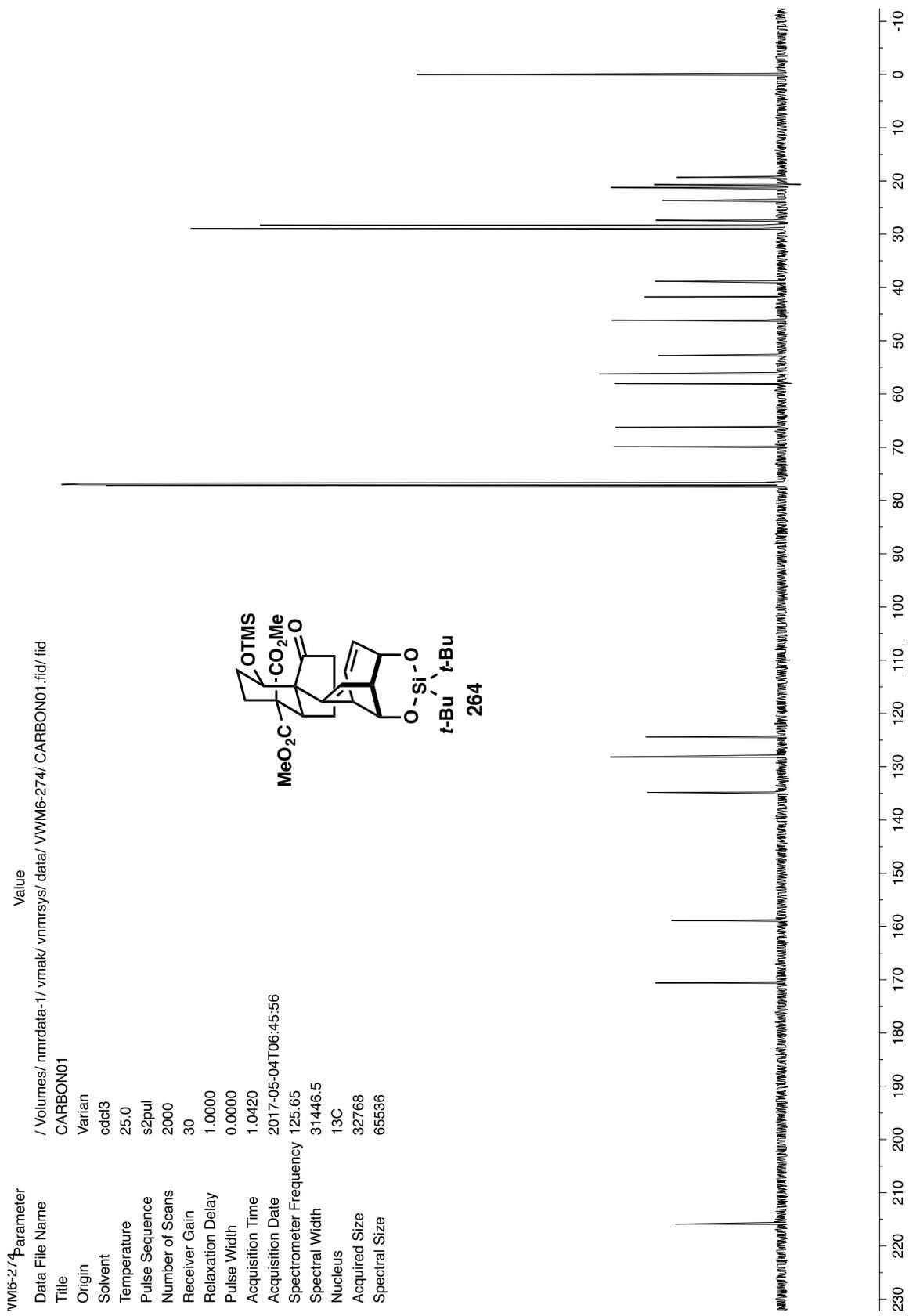


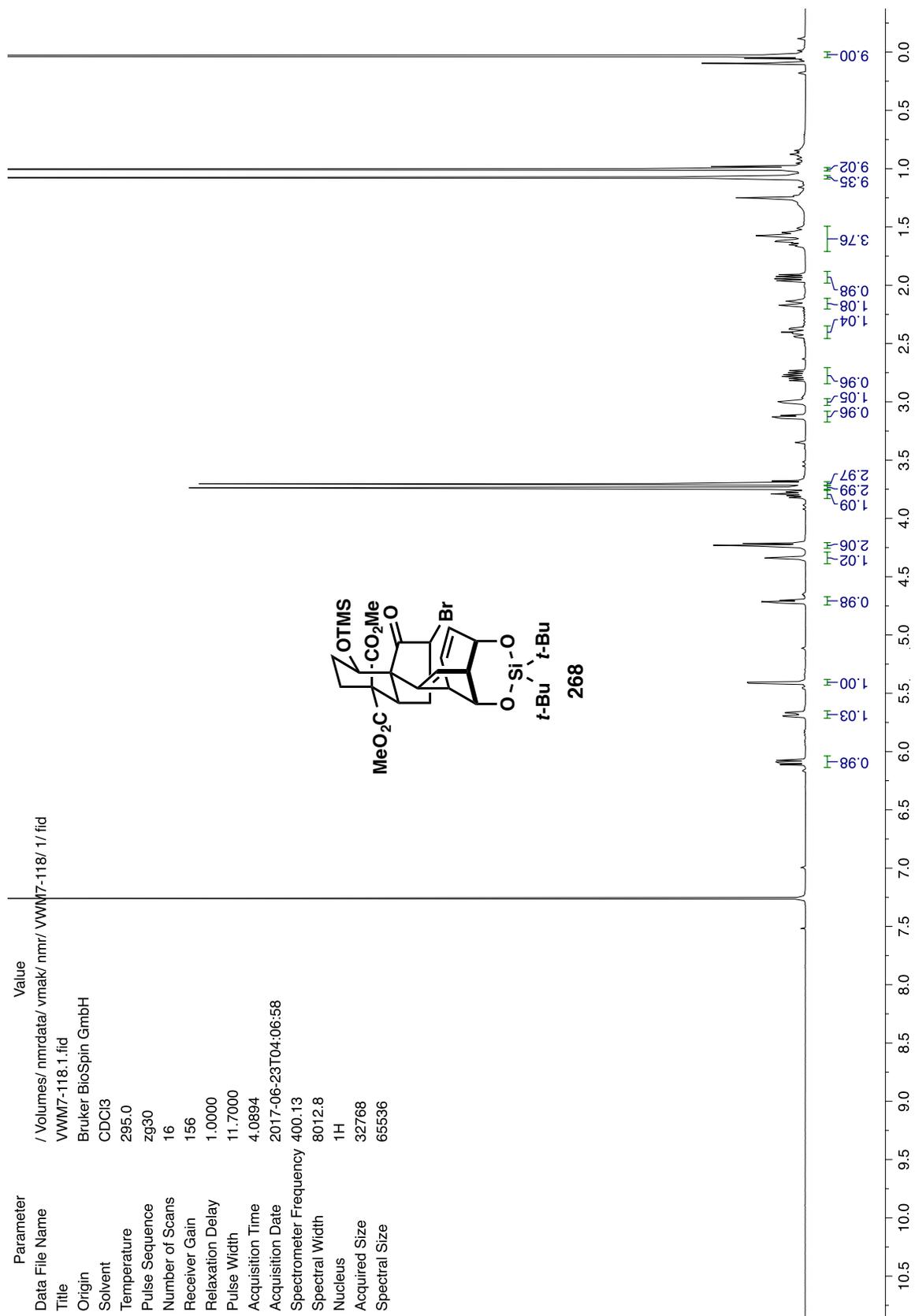




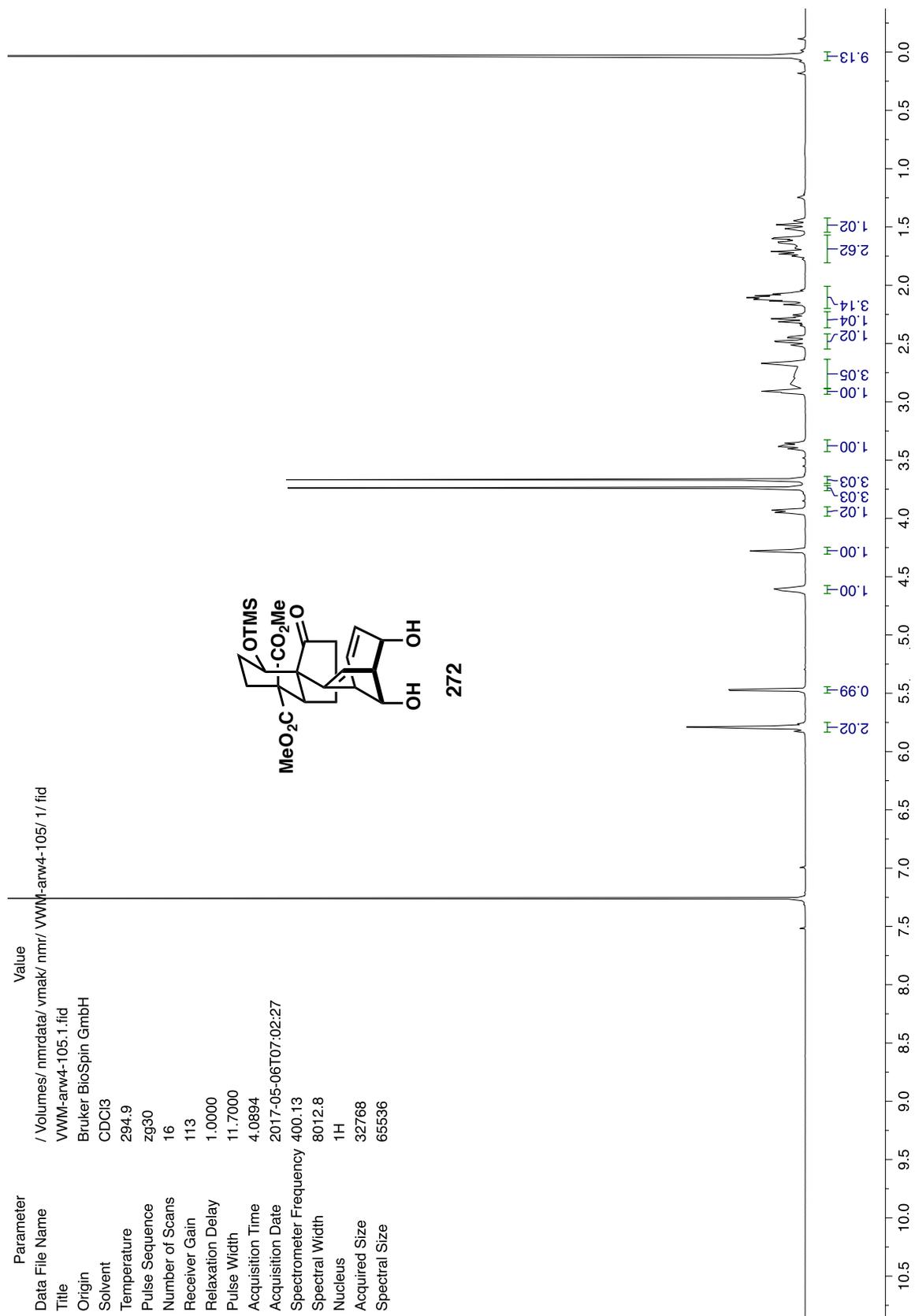


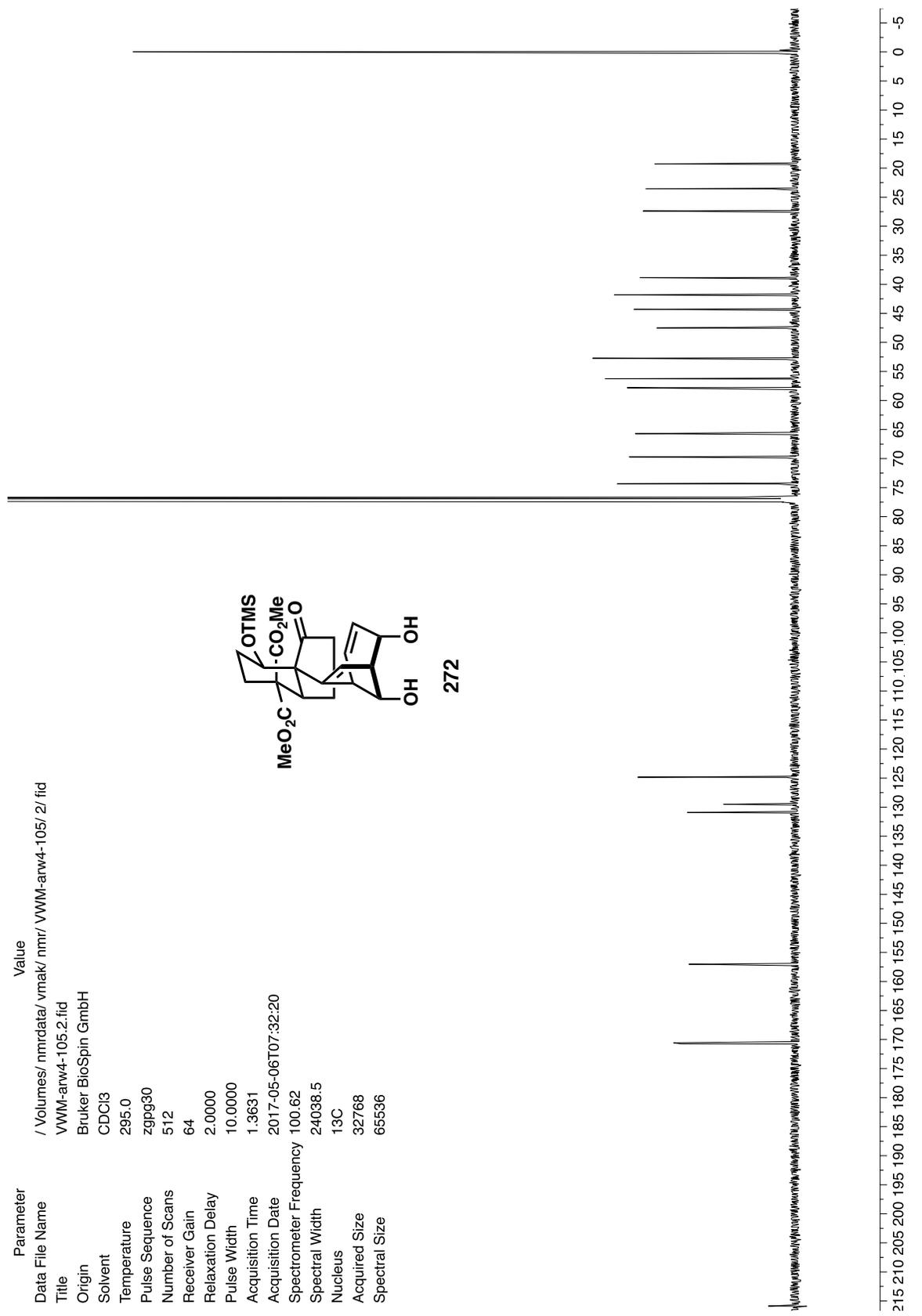


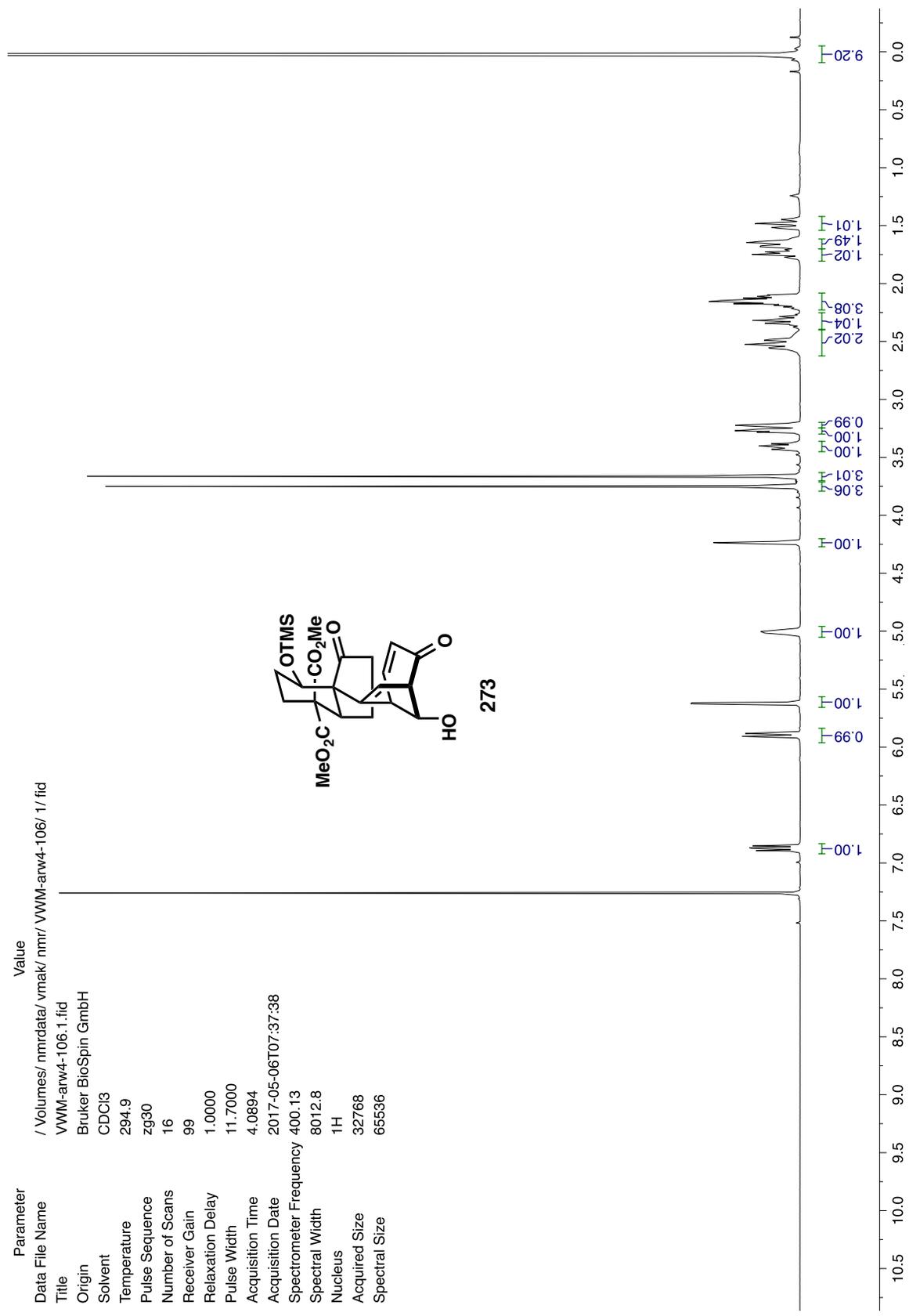


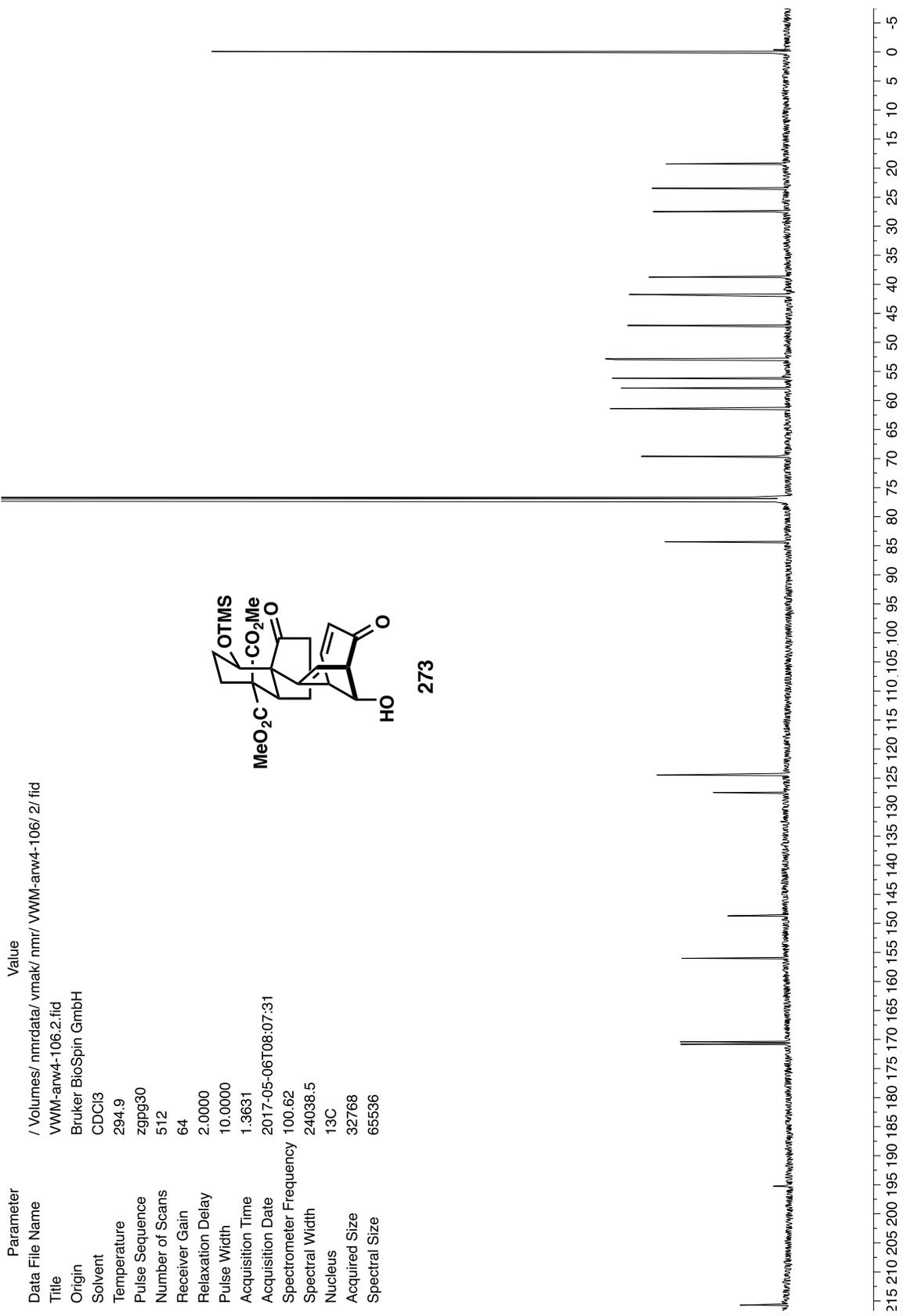


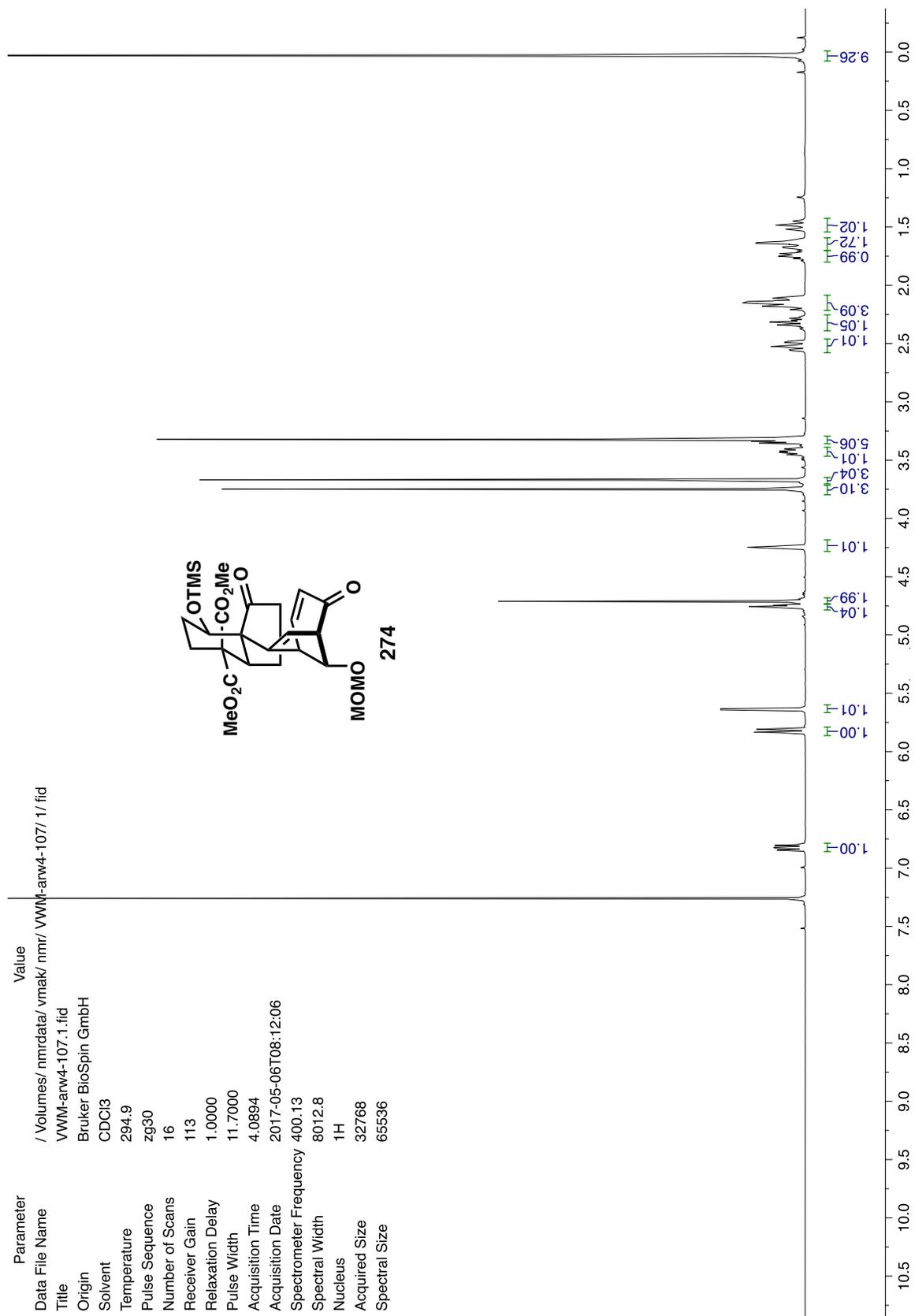


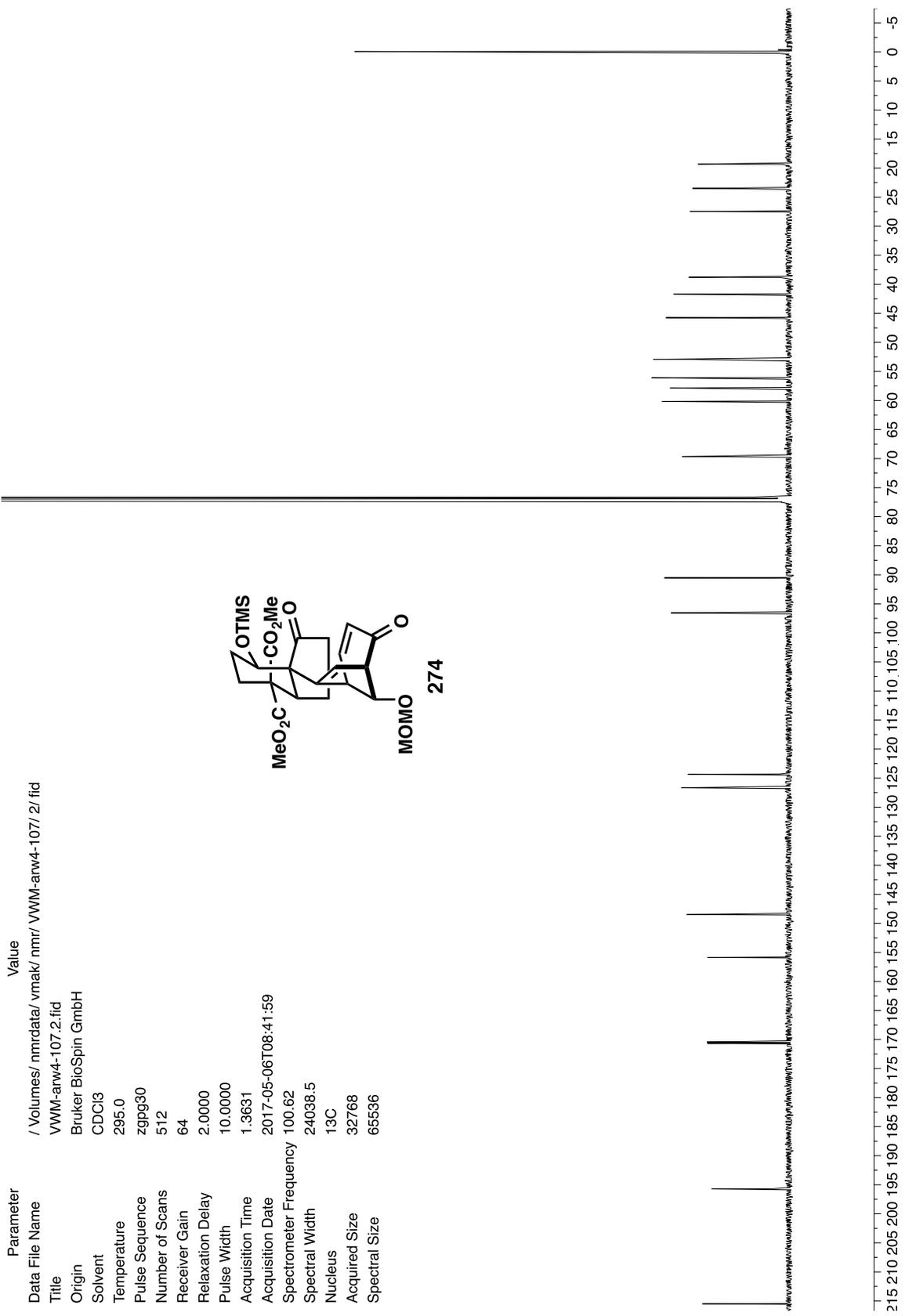


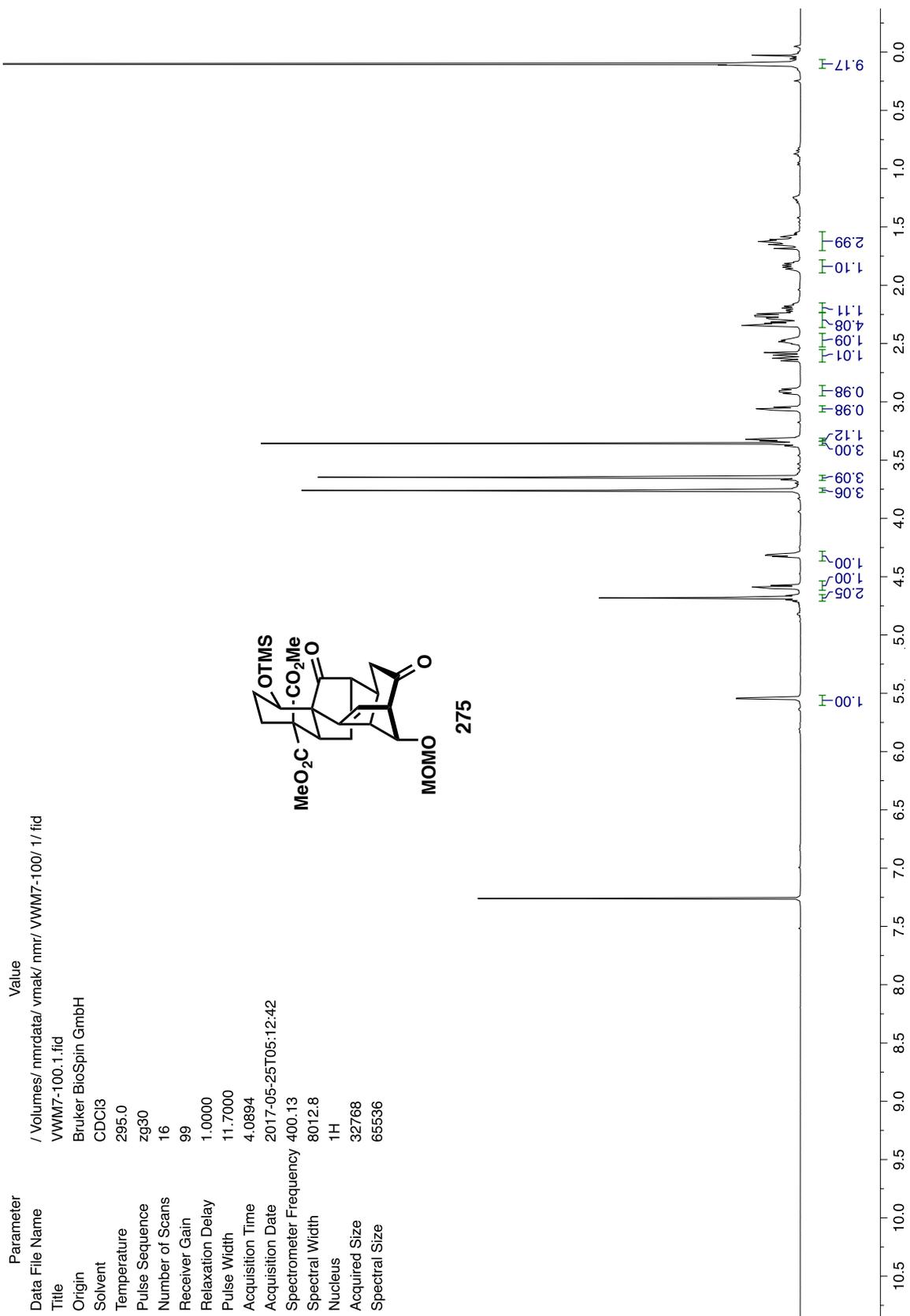


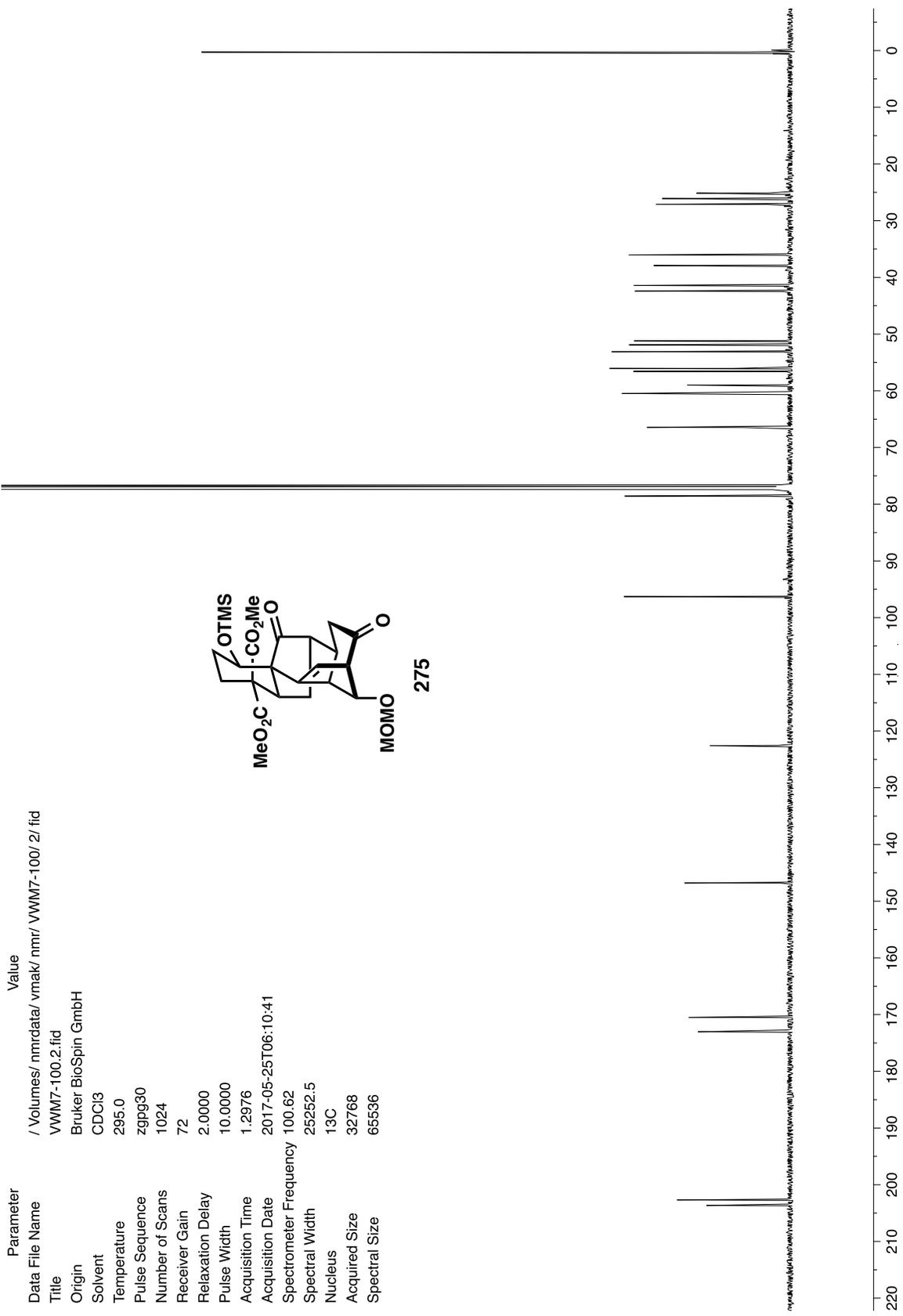


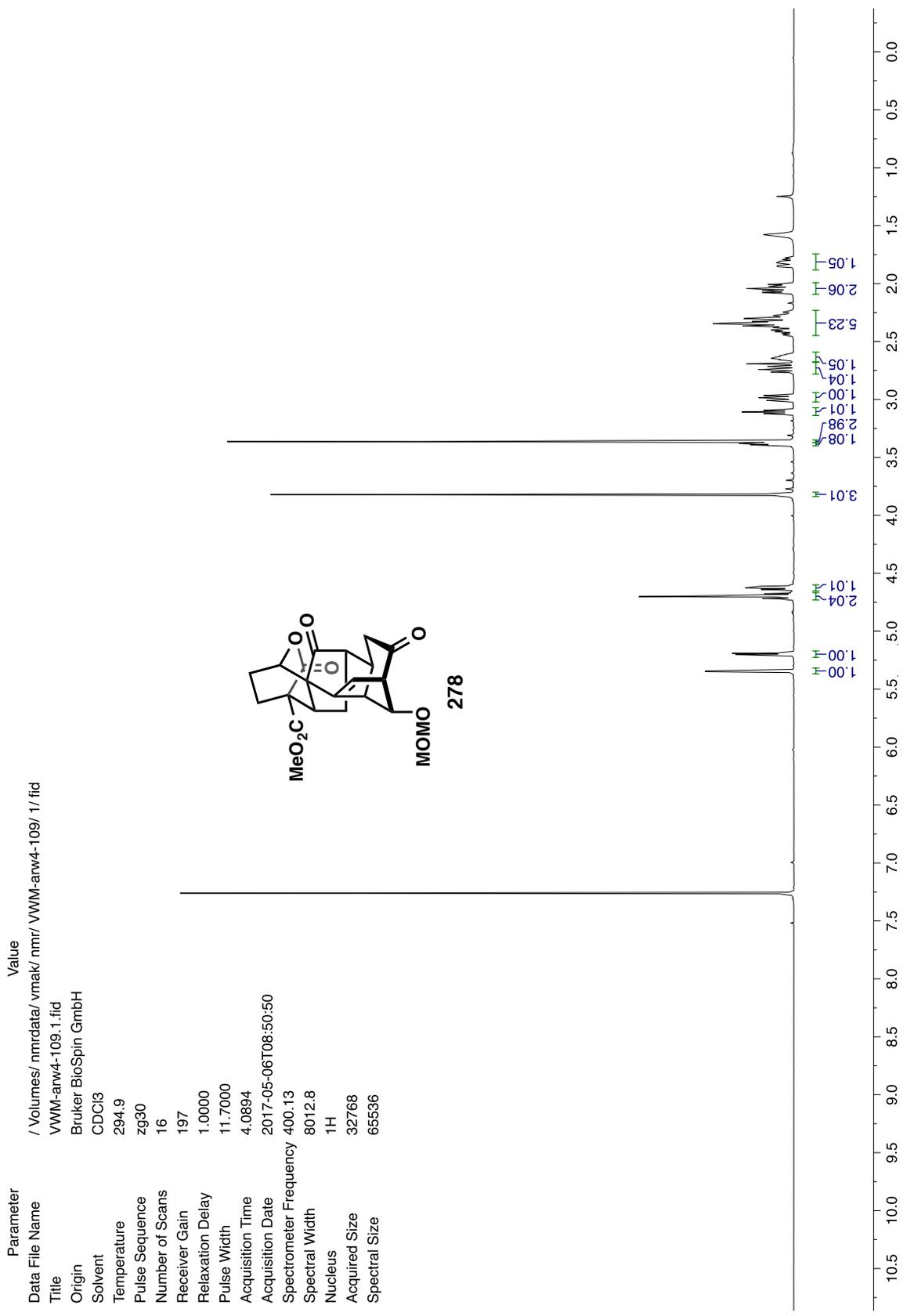


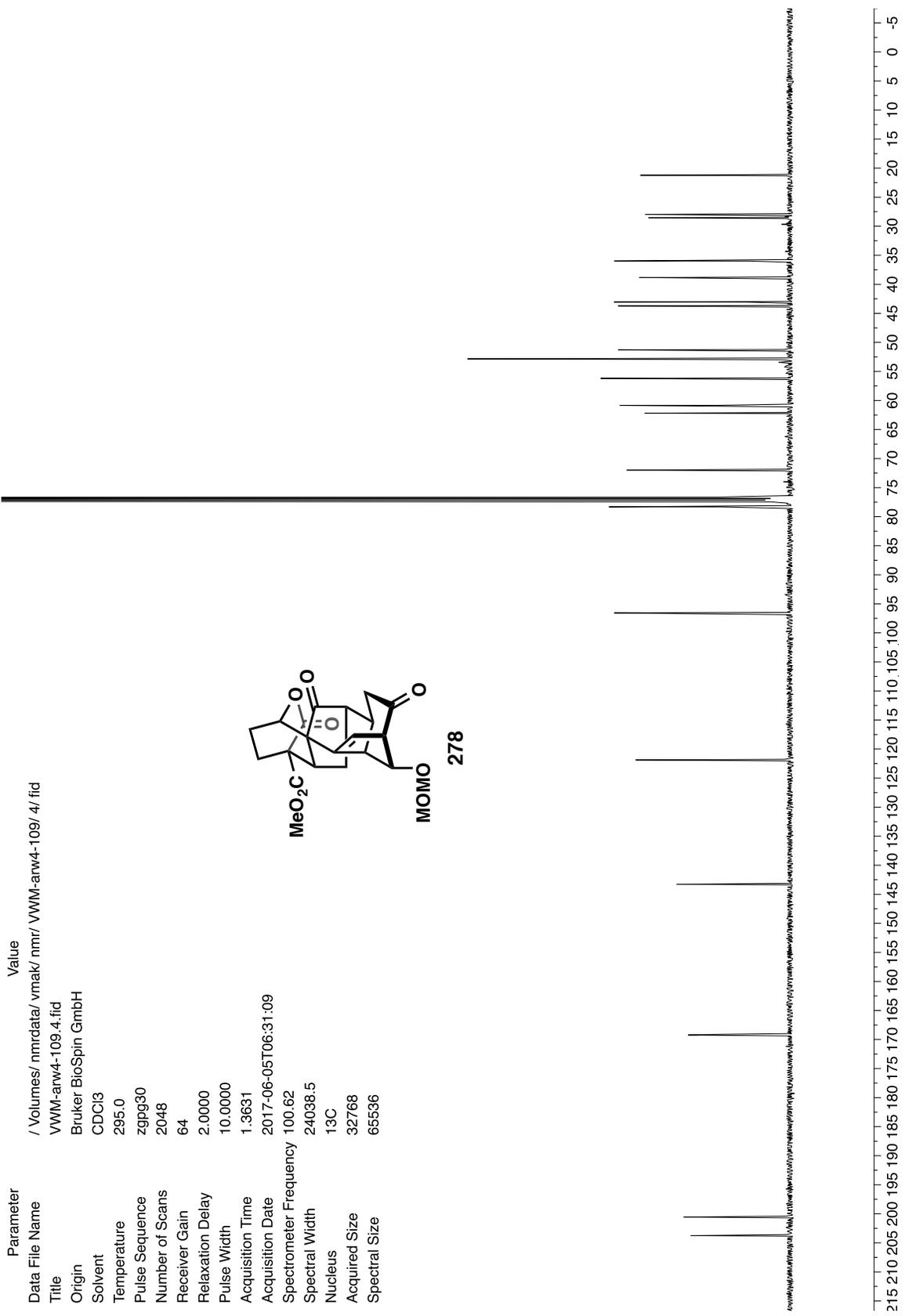


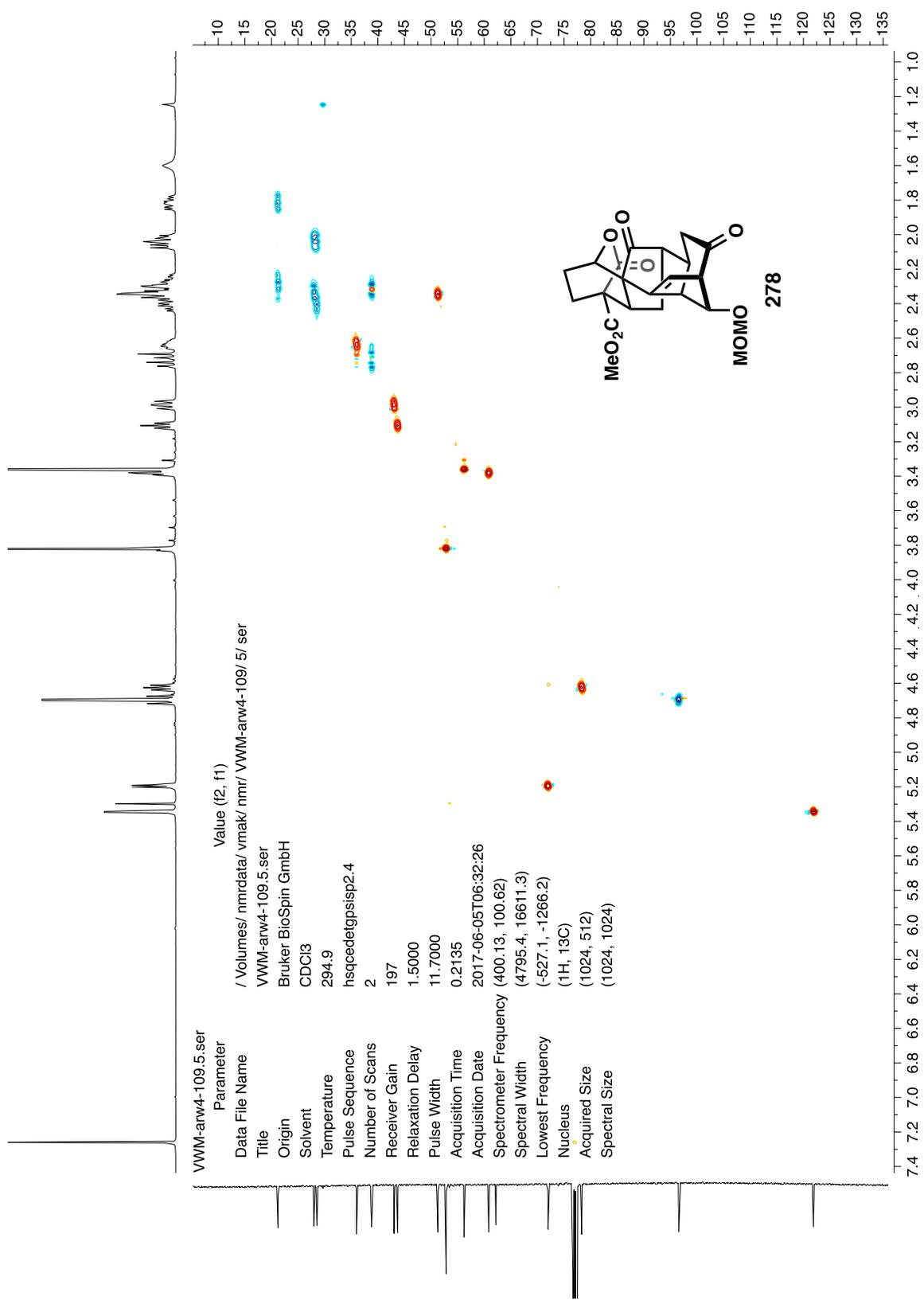


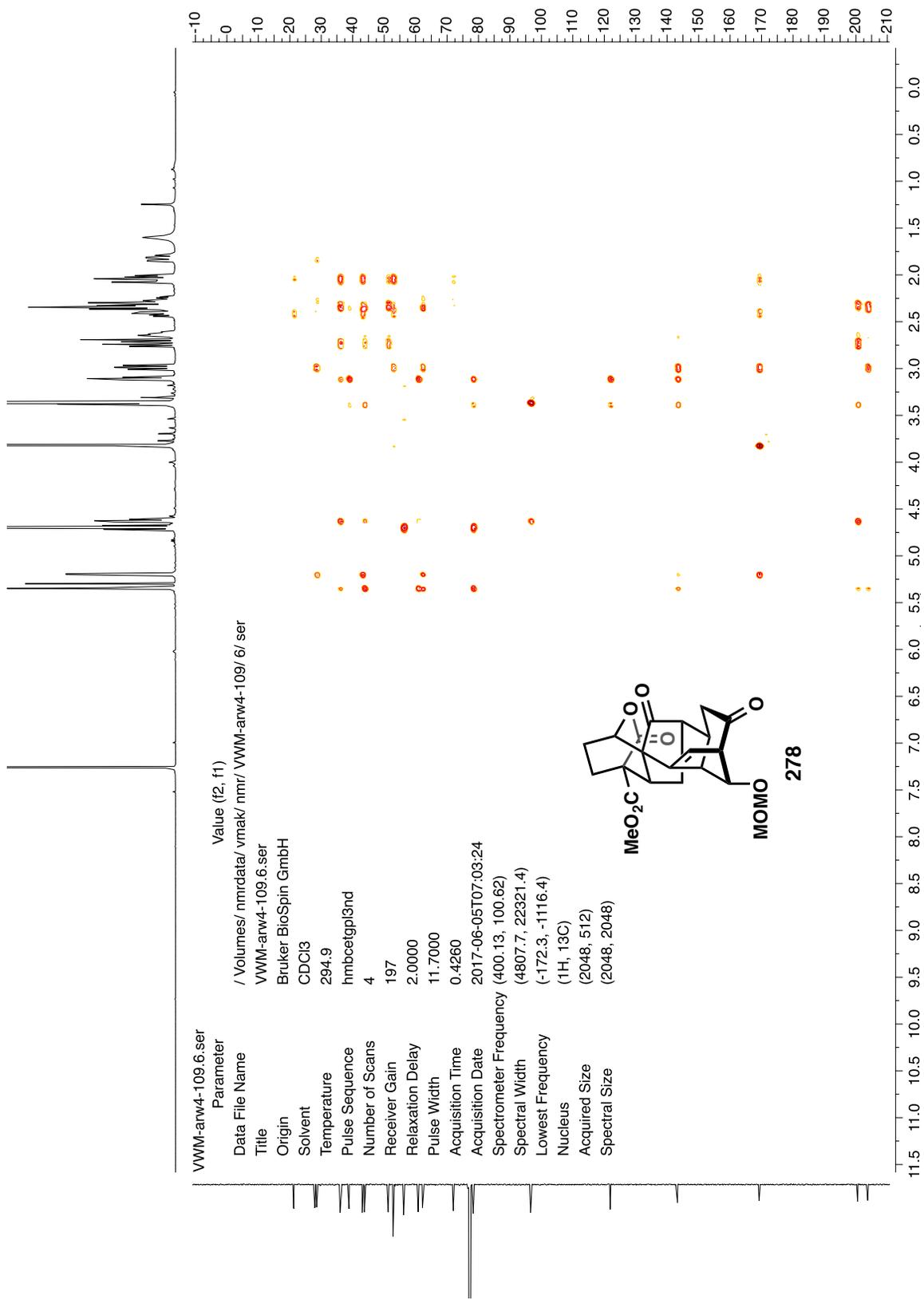


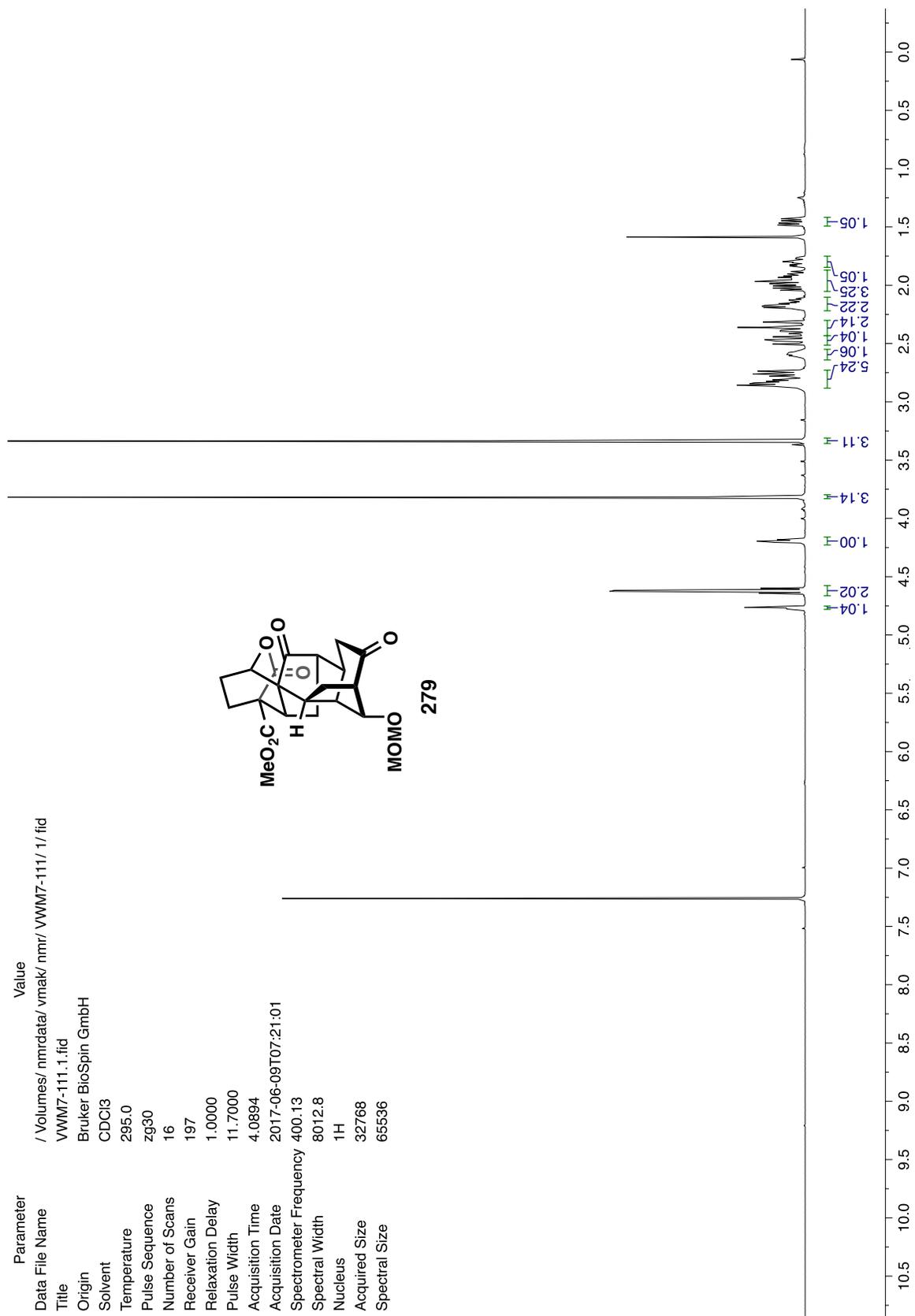


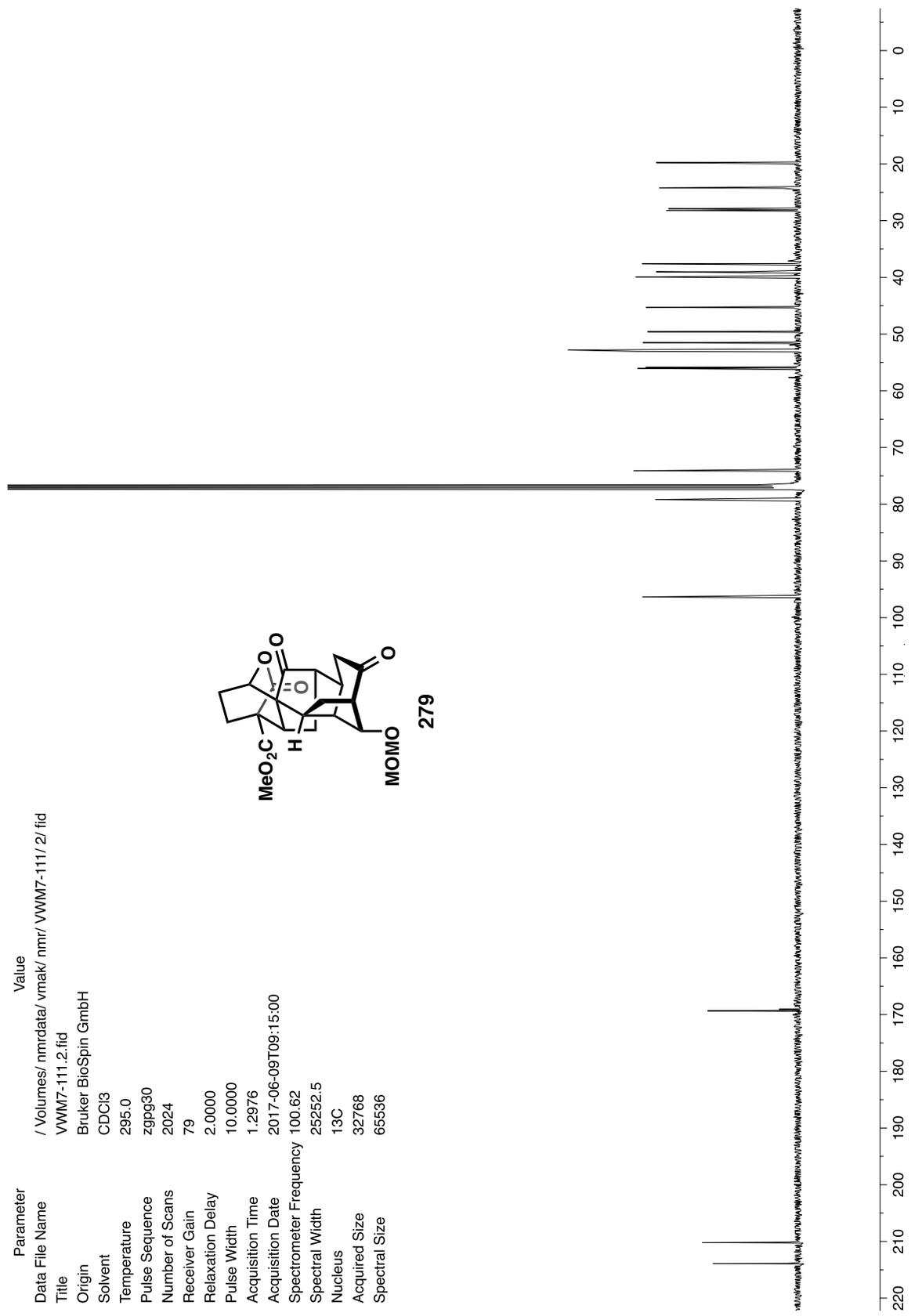


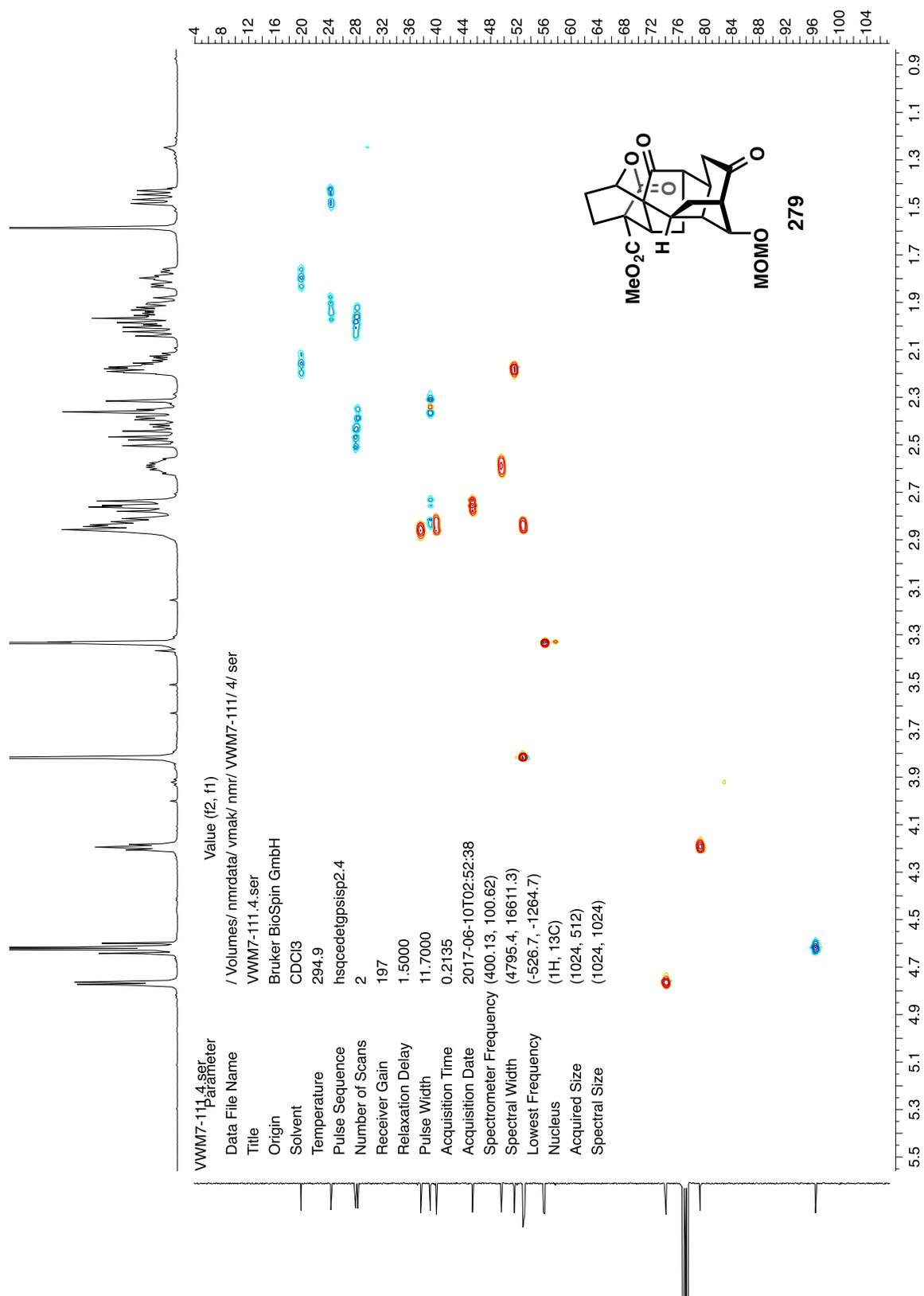


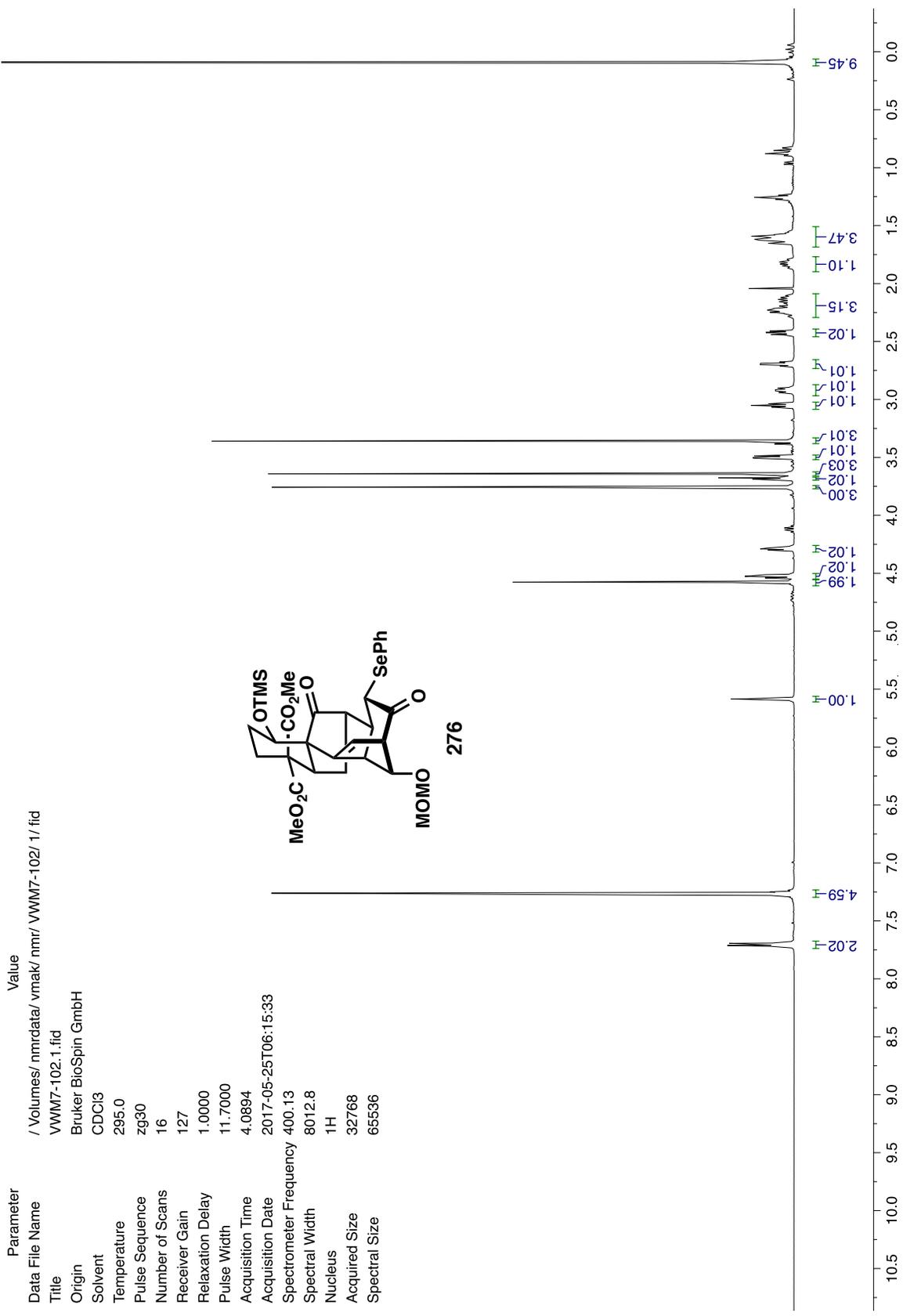


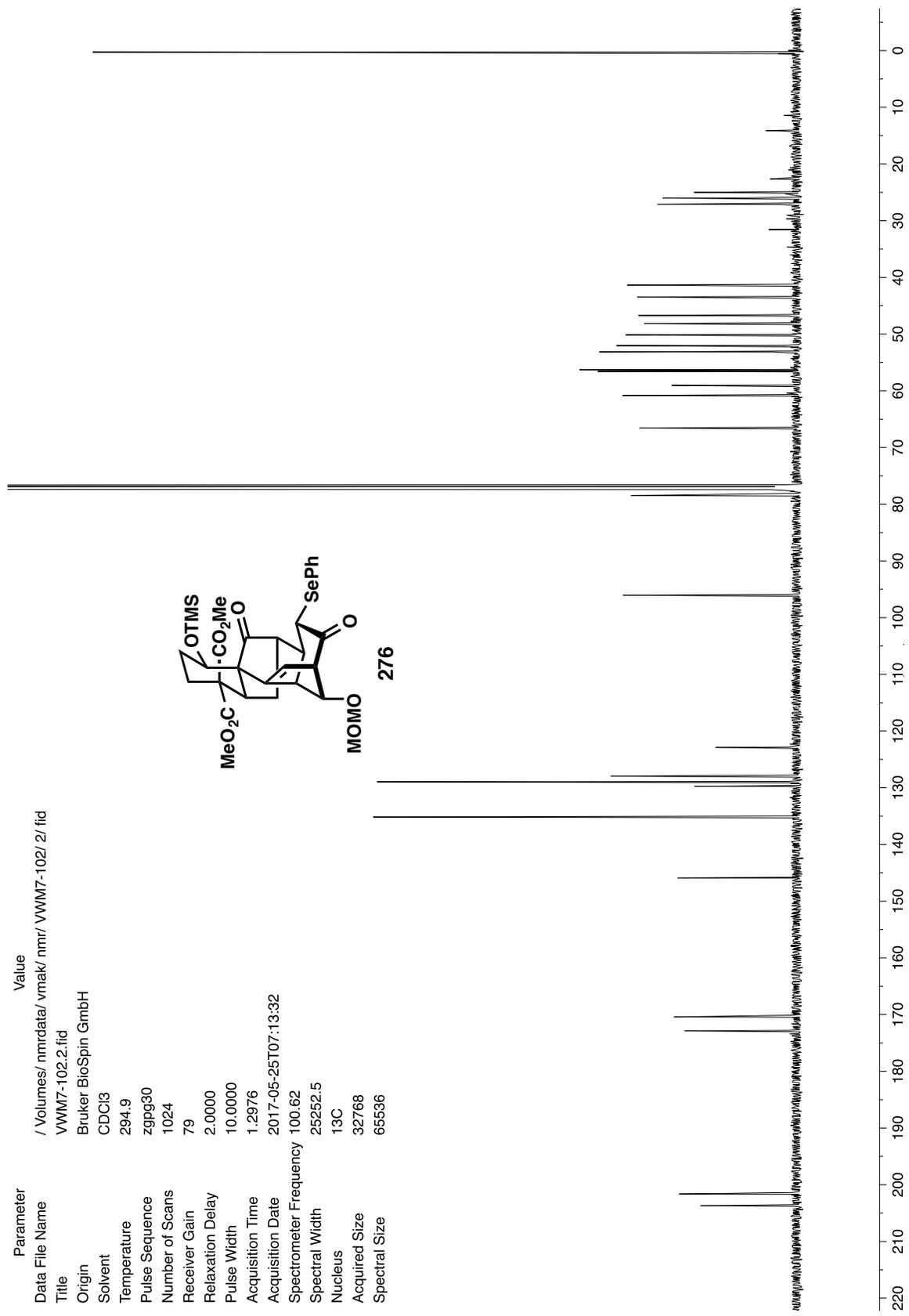


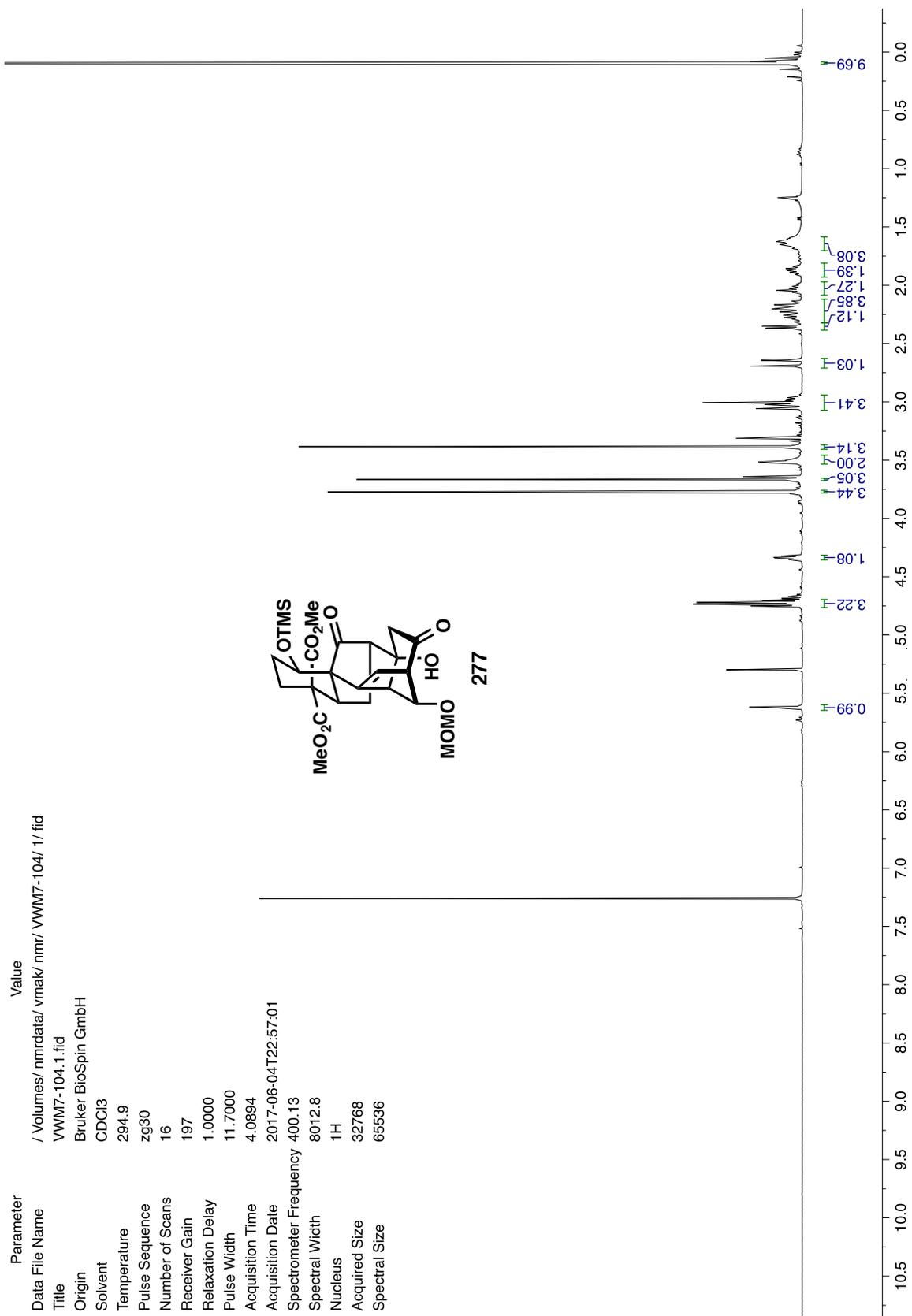


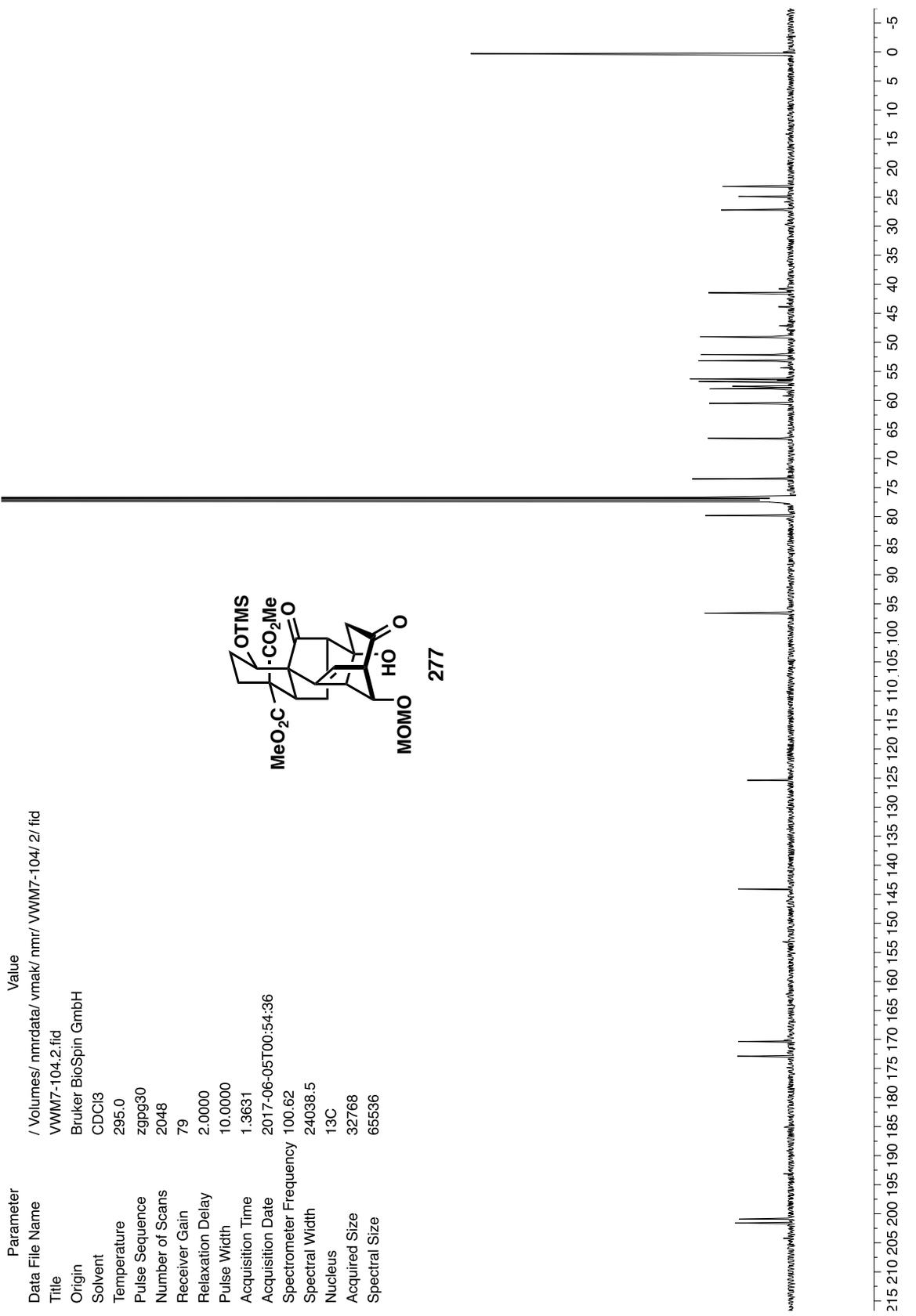


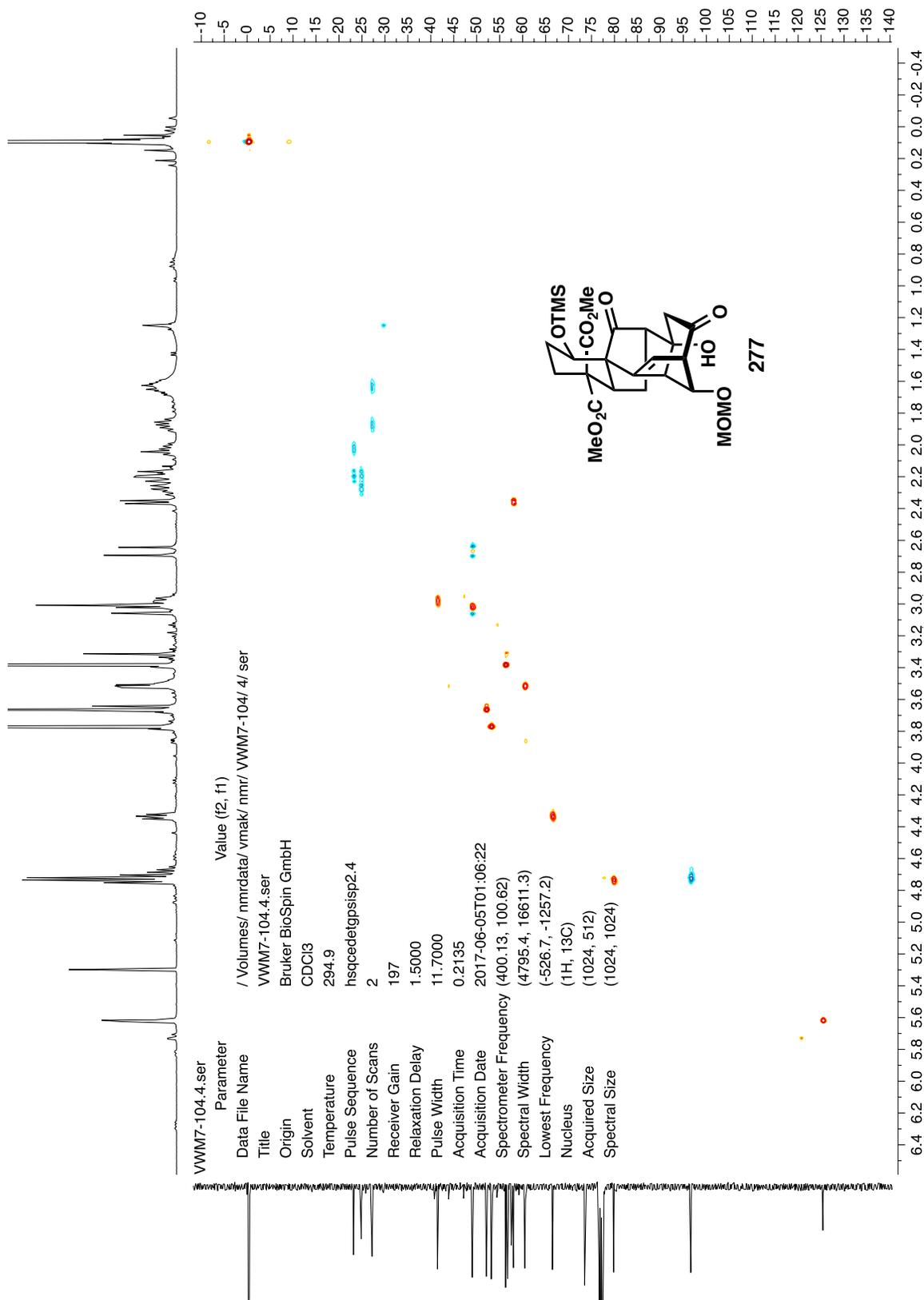


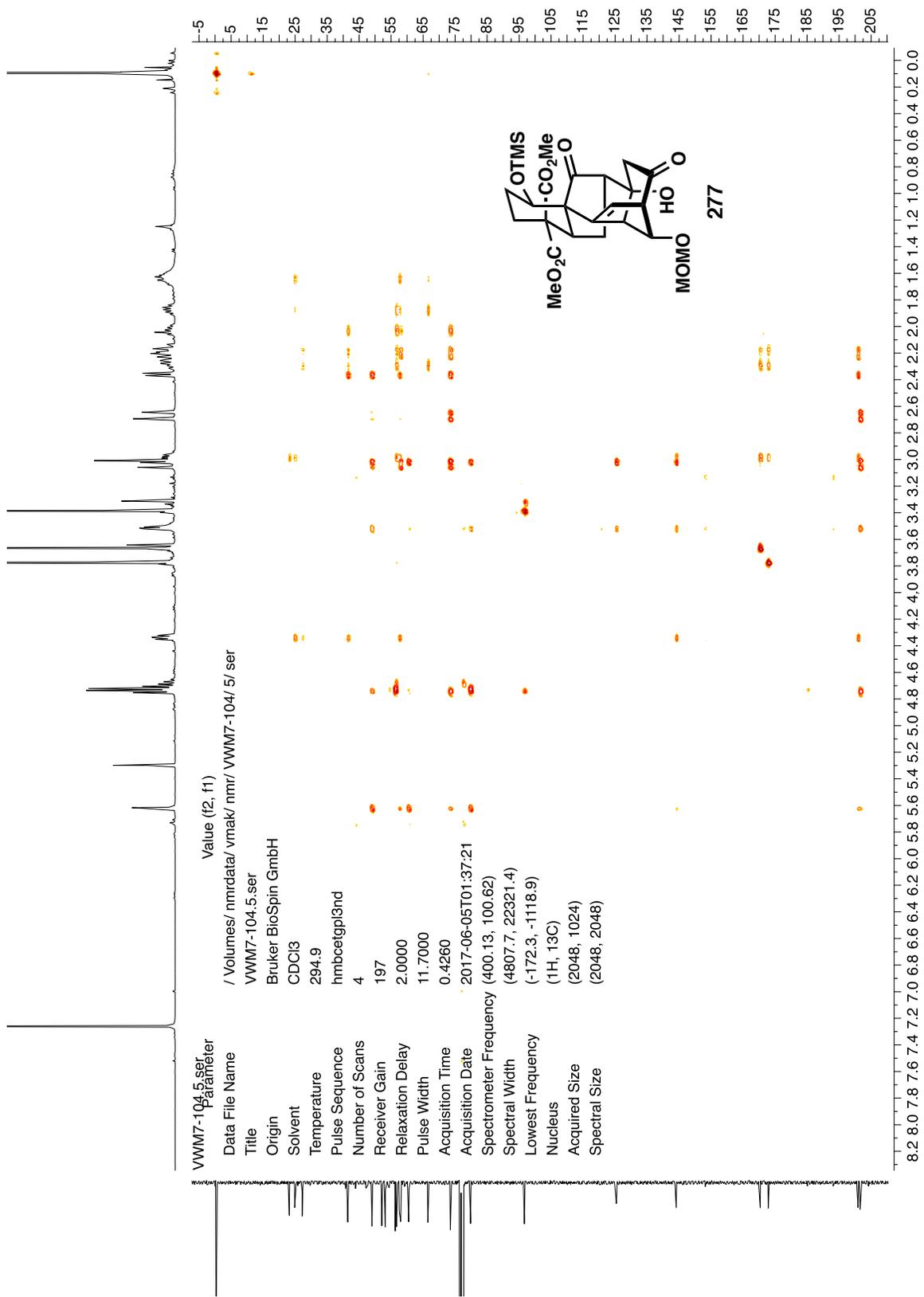


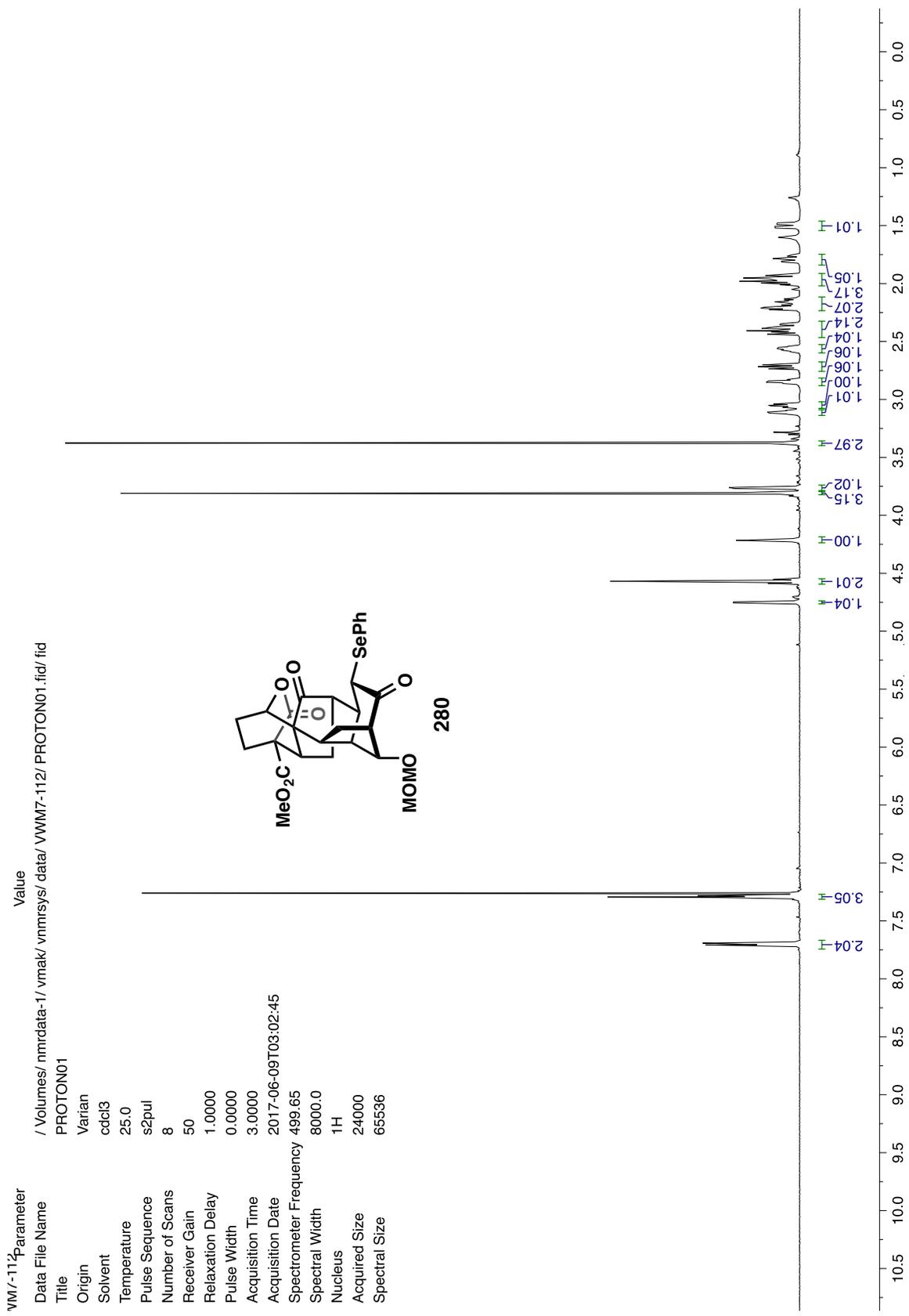




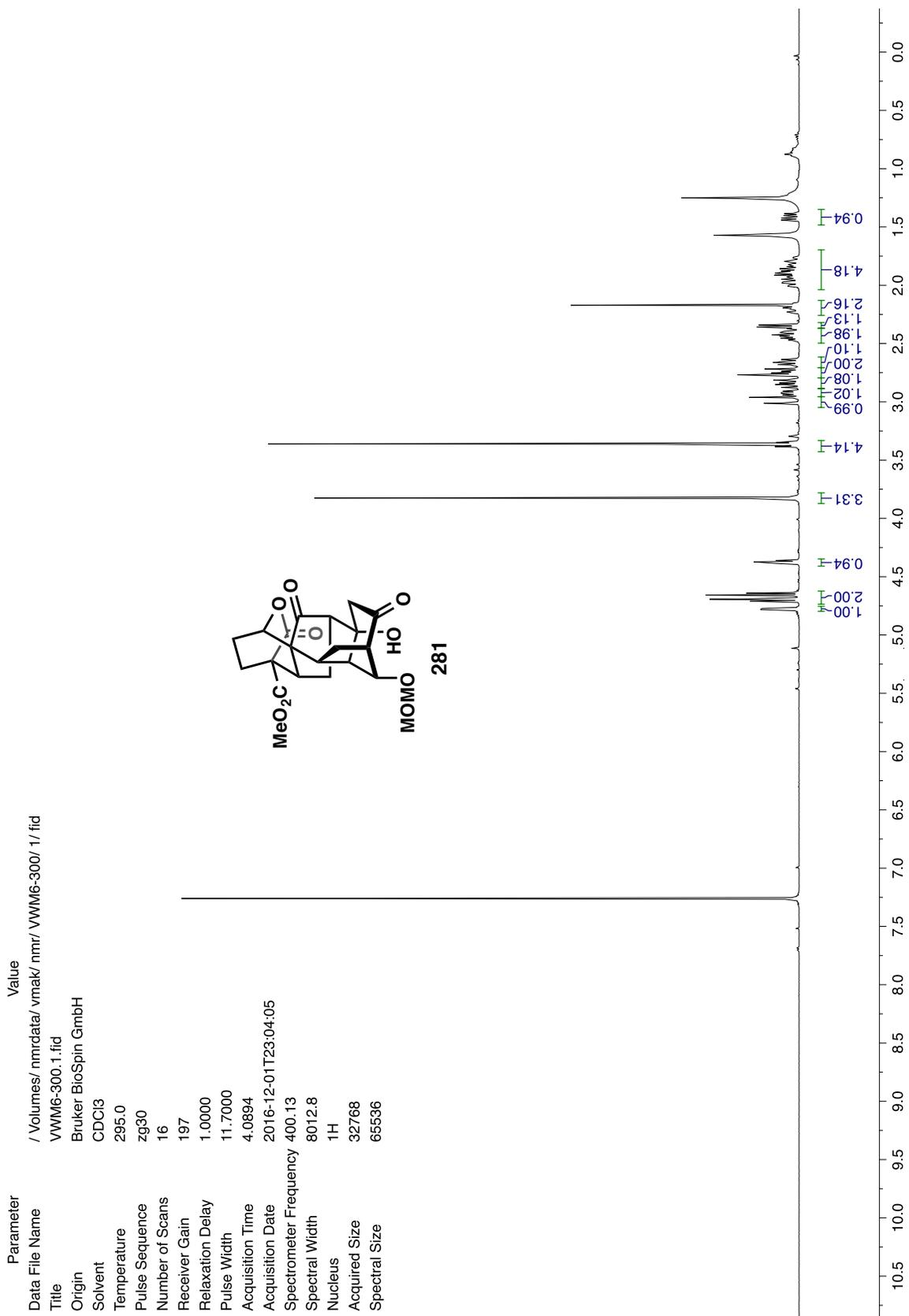


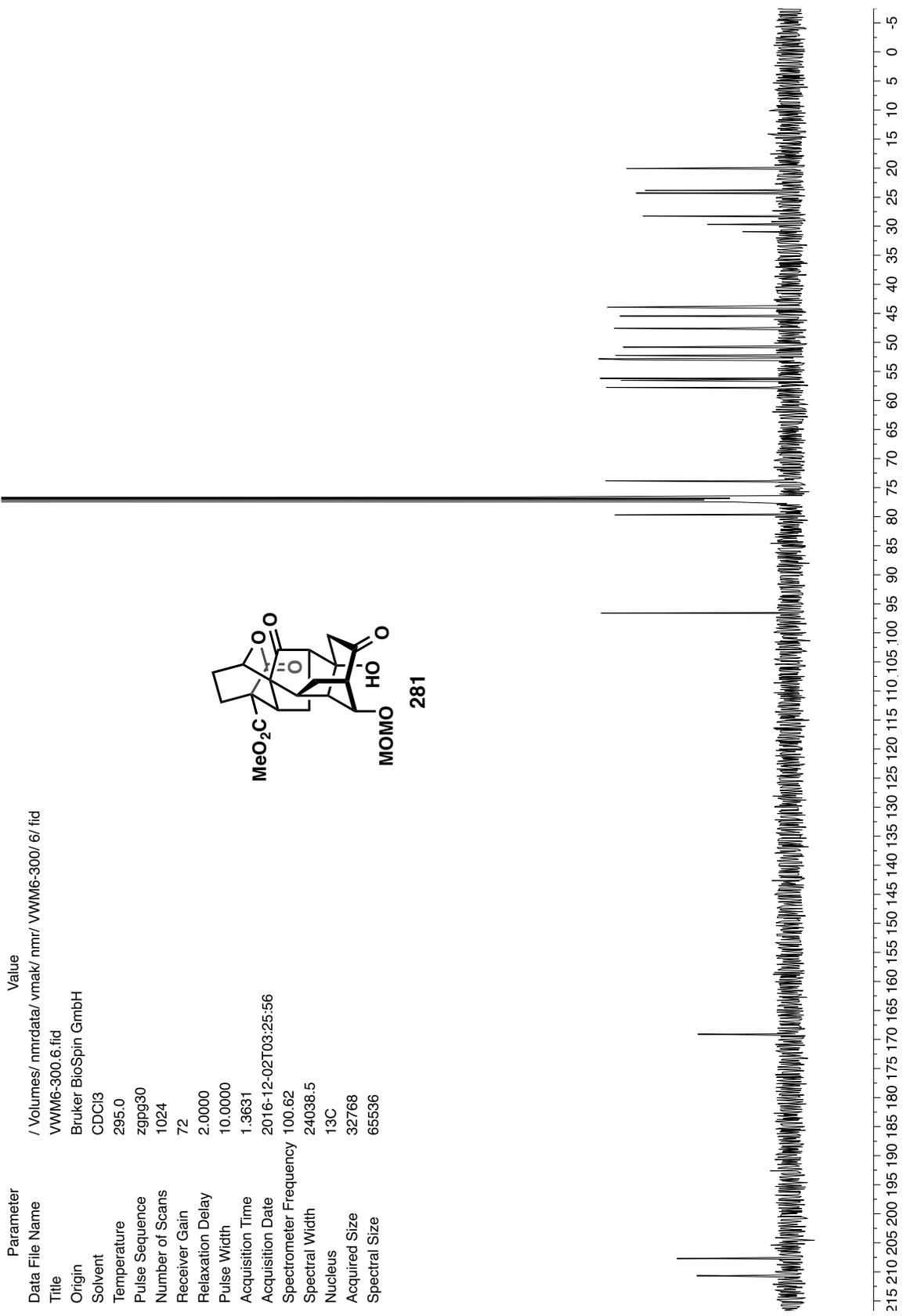


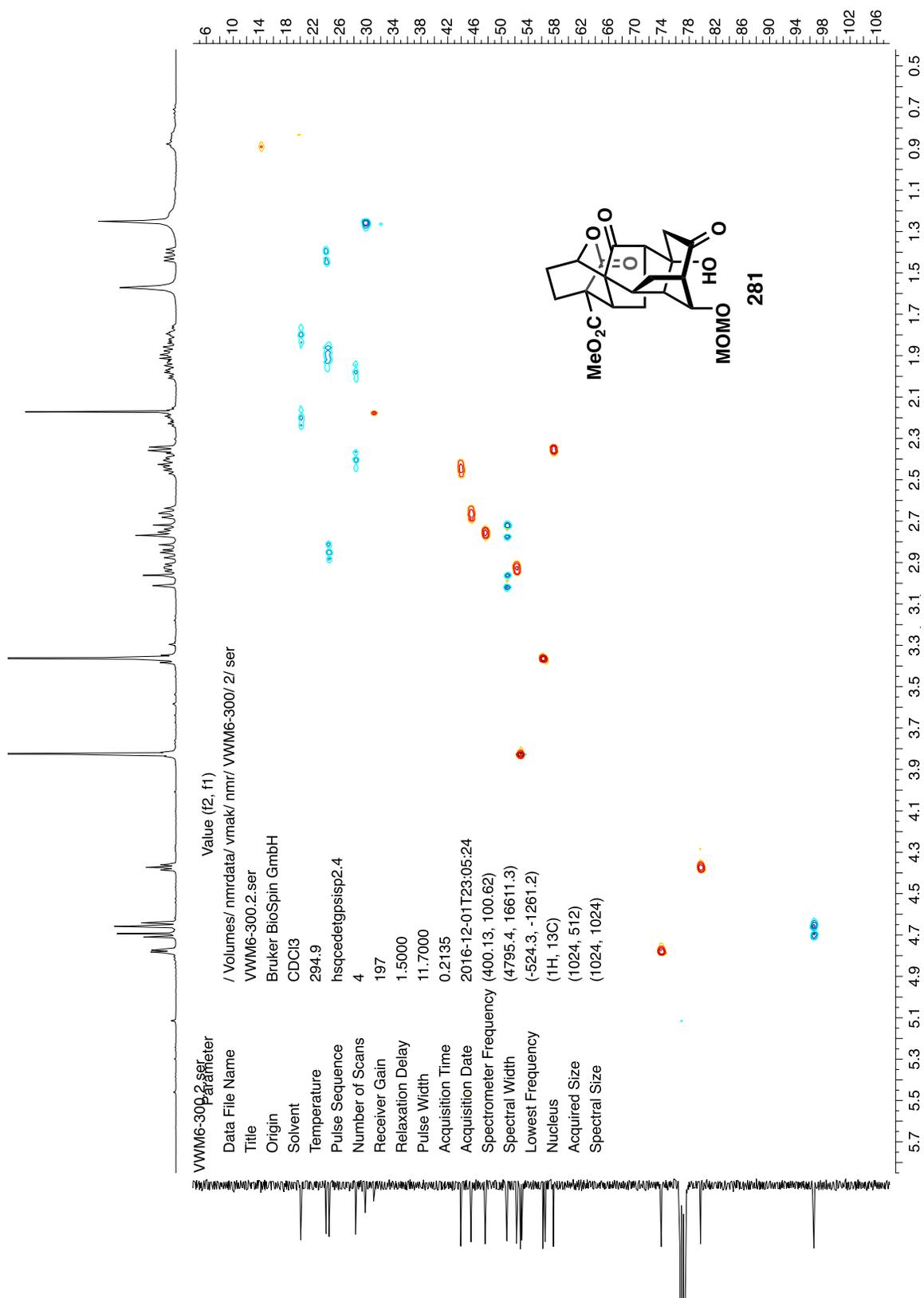


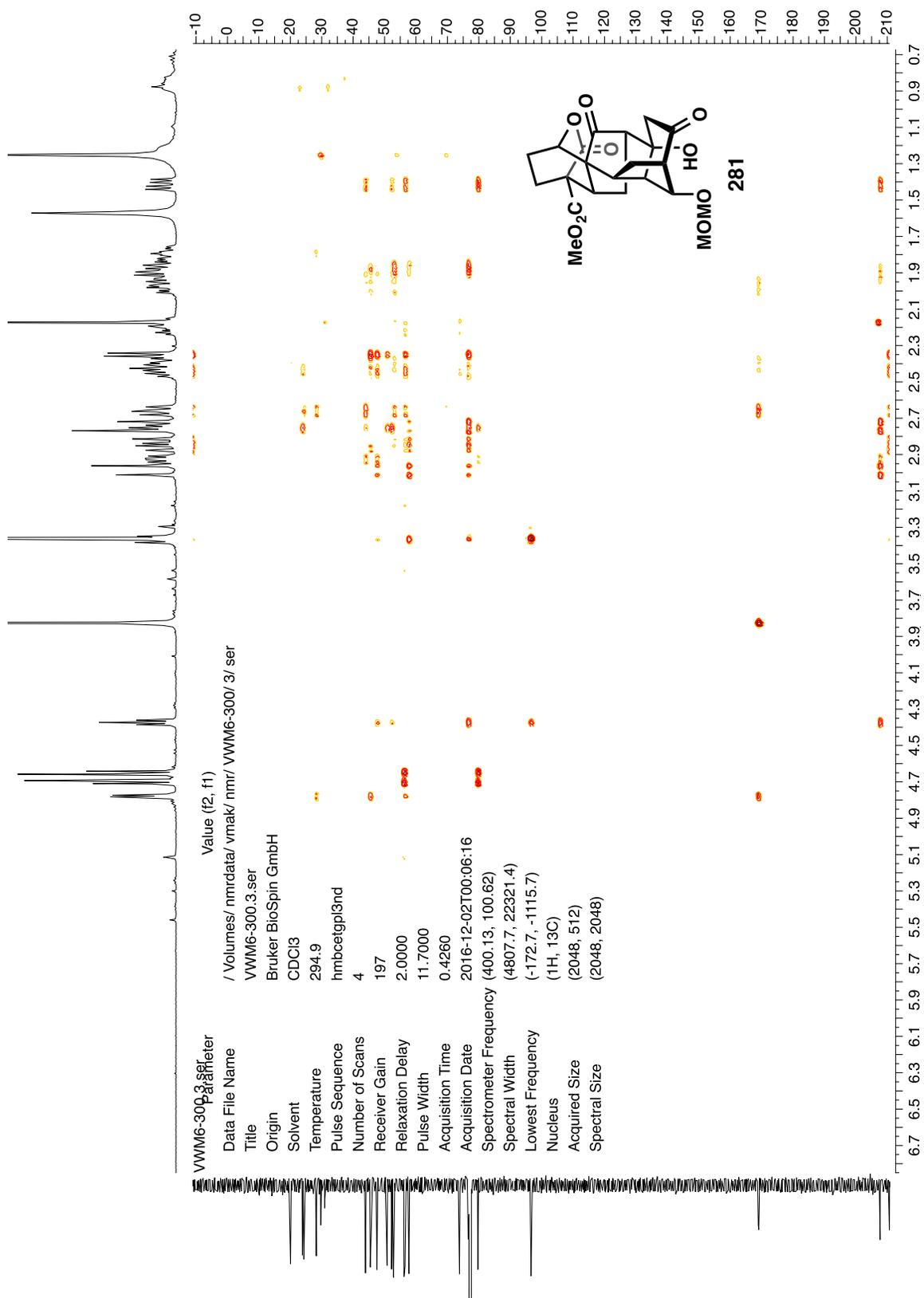




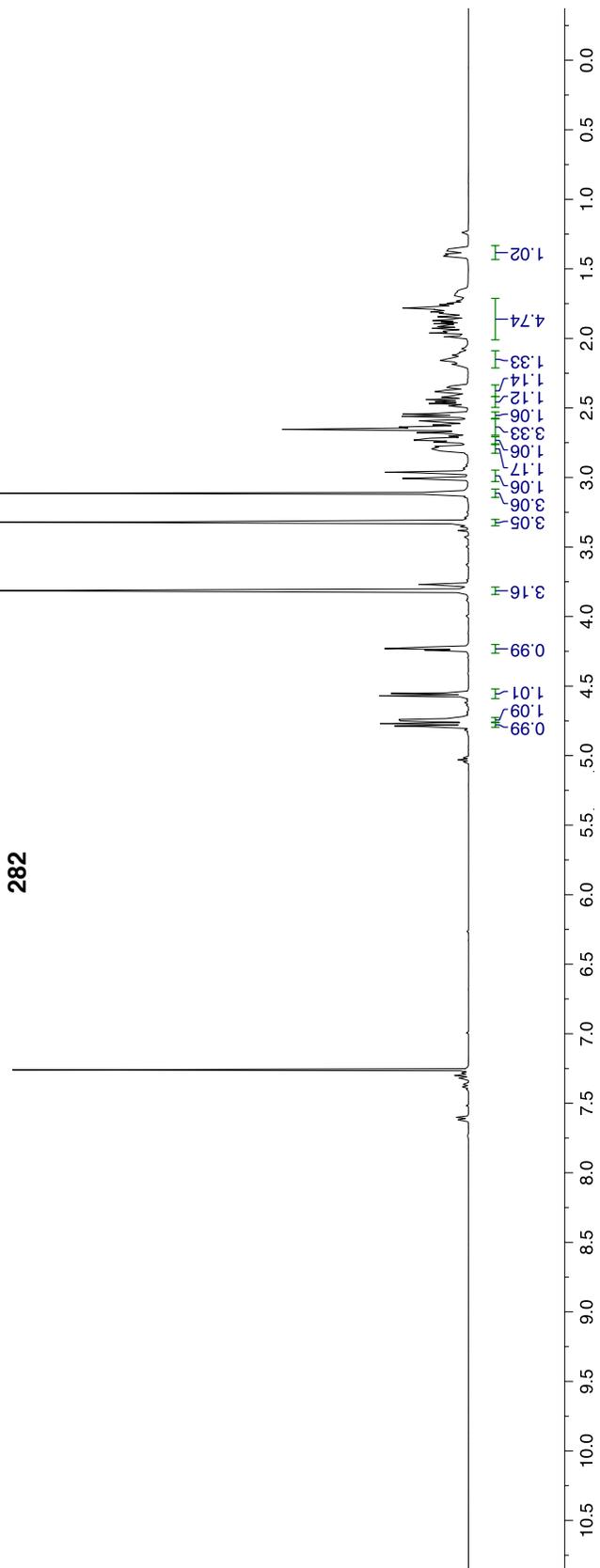
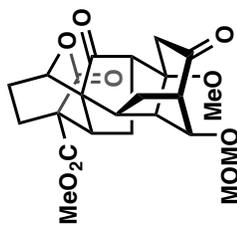




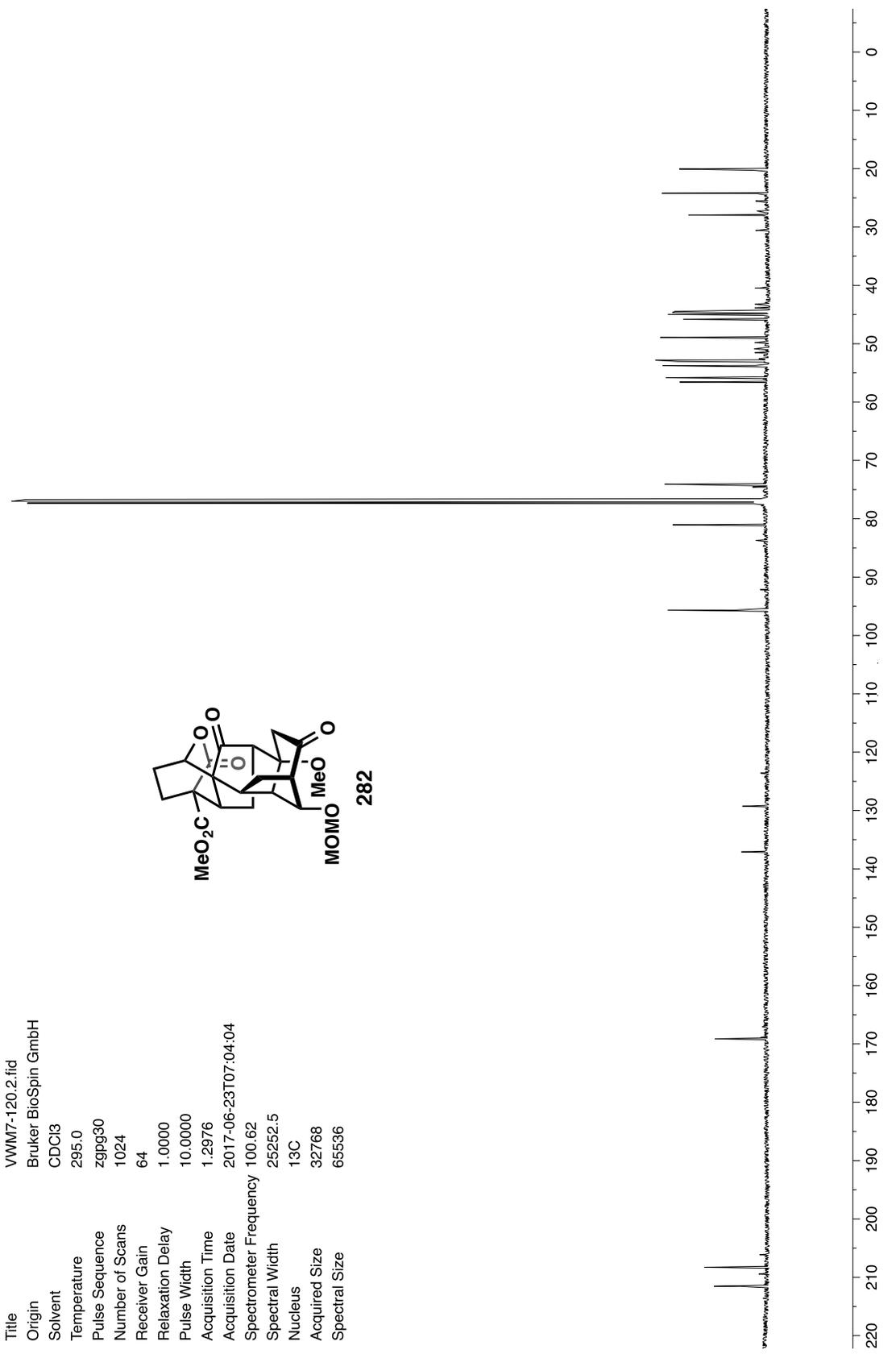
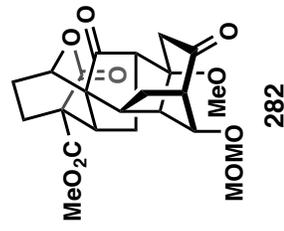


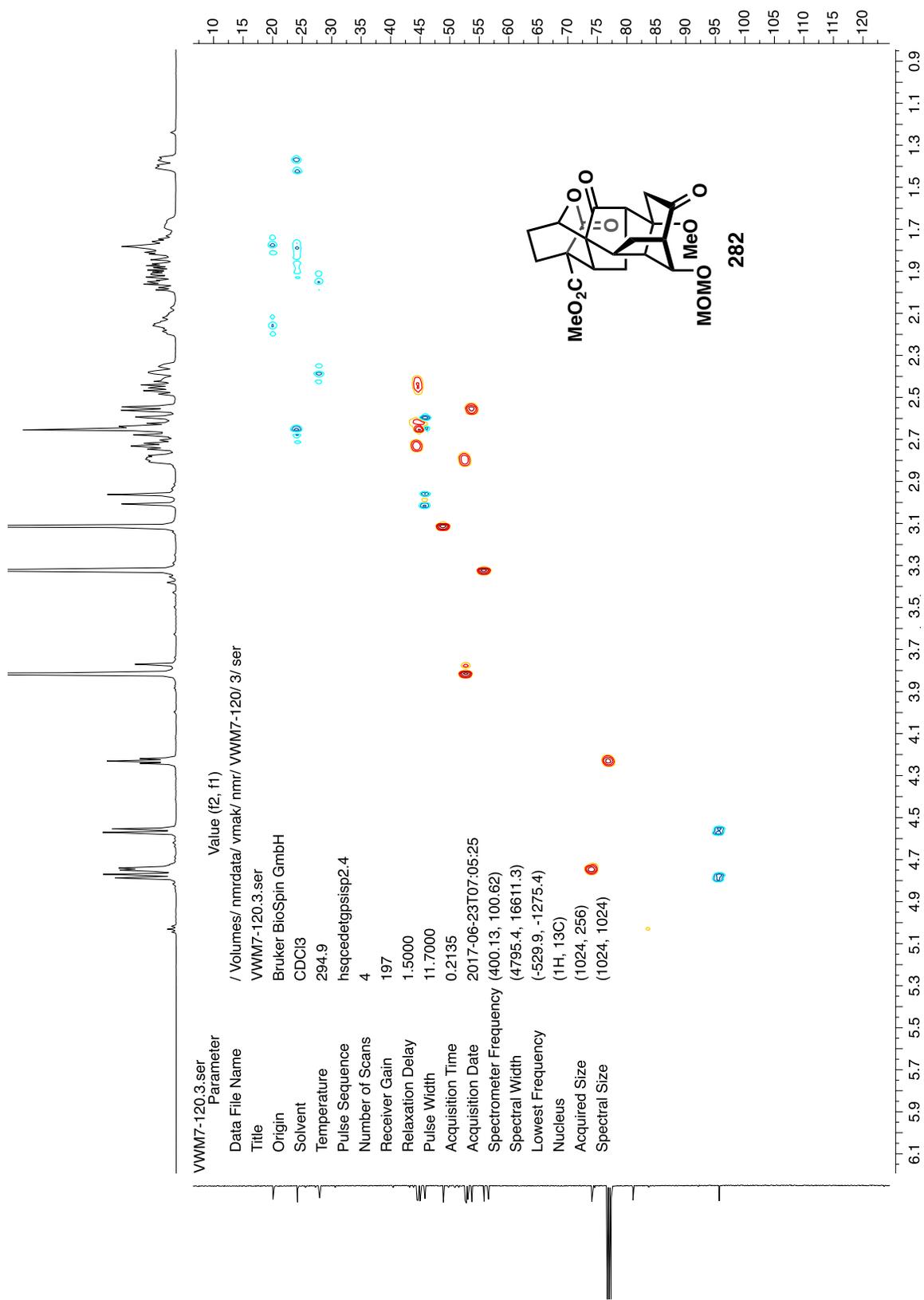


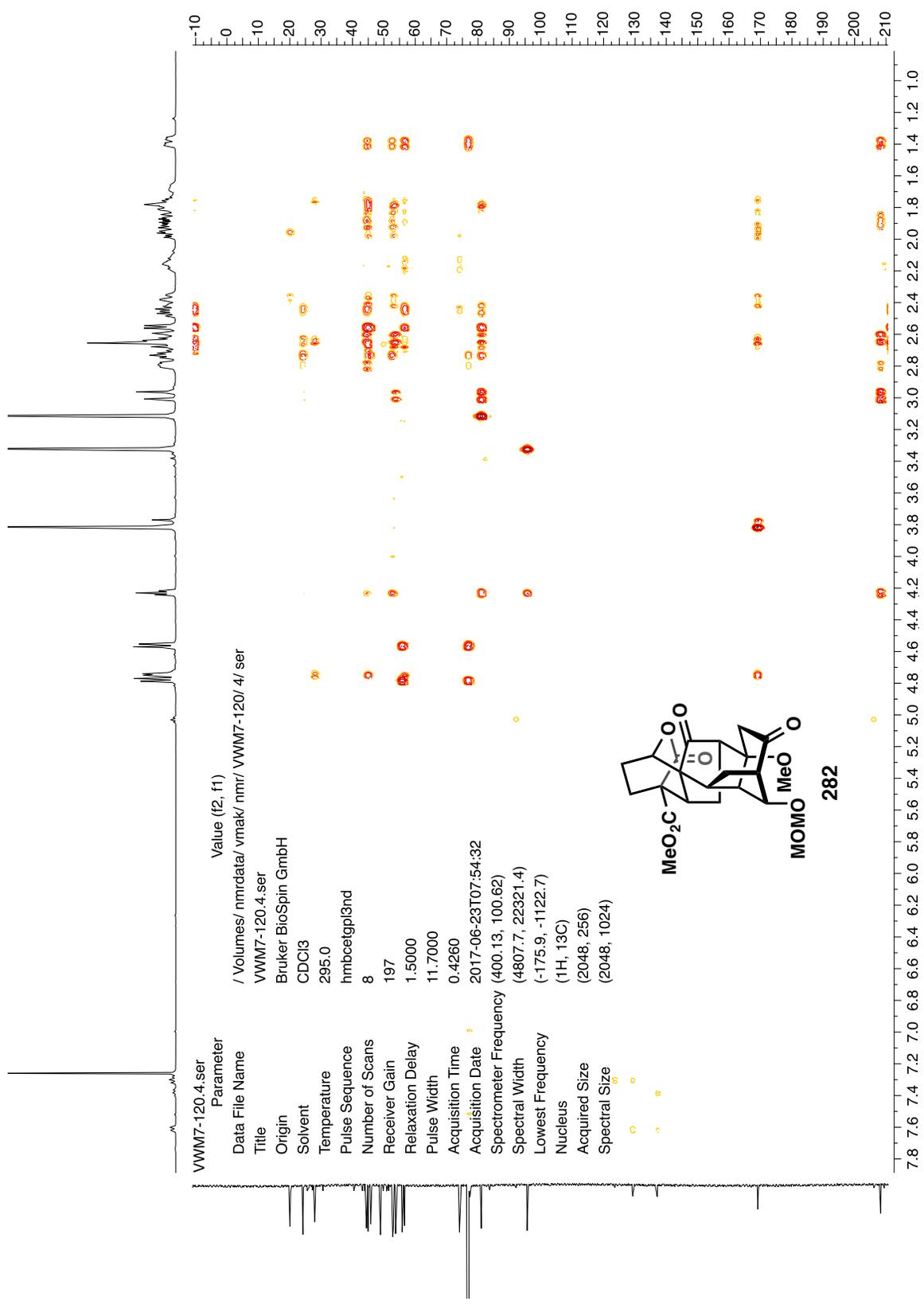
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM7-120/5/ fid
Title	VWM7-120.5.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	294.9
Pulse Sequence	zg30
Number of Scans	16
Receiver Gain	99
Relaxation Delay	1.0000
Pulse Width	11.7000
Acquisition Time	4.0894
Acquisition Date	2017-06-28T01:02:03
Spectrometer Frequency	400.13
Spectral Width	8012.8
Nucleus	1H
Acquired Size	32768
Spectral Size	65536



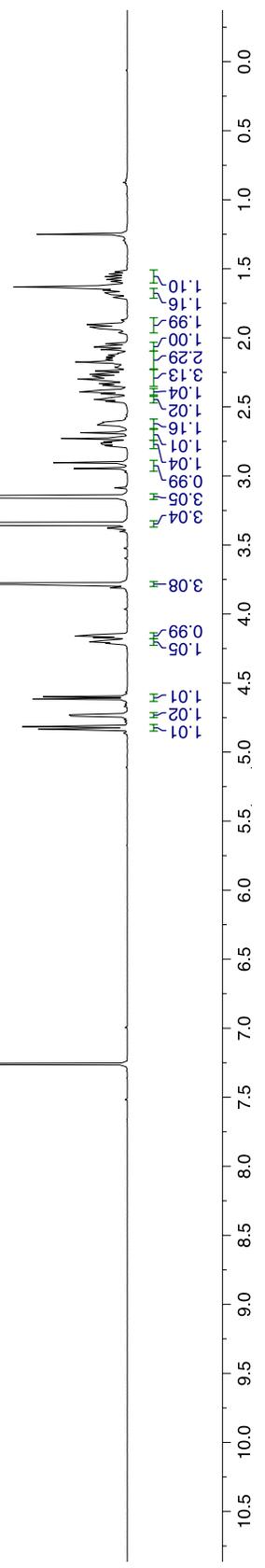
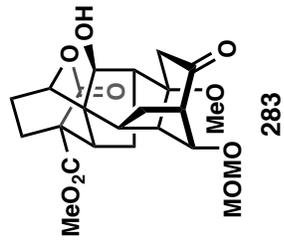
Parameter	Value
Data File Name	/Volumes/nmrdata/vmak/nmr/VWM7-120/2/ fid
Title	VWM7-120.2.fid
Origin	Bruker BioSpin GmbH
Solvent	CDCl3
Temperature	295.0
Pulse Sequence	zgpg30
Number of Scans	1024
Receiver Gain	64
Relaxation Delay	1.0000
Pulse Width	10.0000
Acquisition Time	1.2976
Acquisition Date	2017-06-23T07:04:04
Spectrometer Frequency	100.62
Spectral Width	25252.5
Nucleus	13C
Acquired Size	32768
Spectral Size	65536

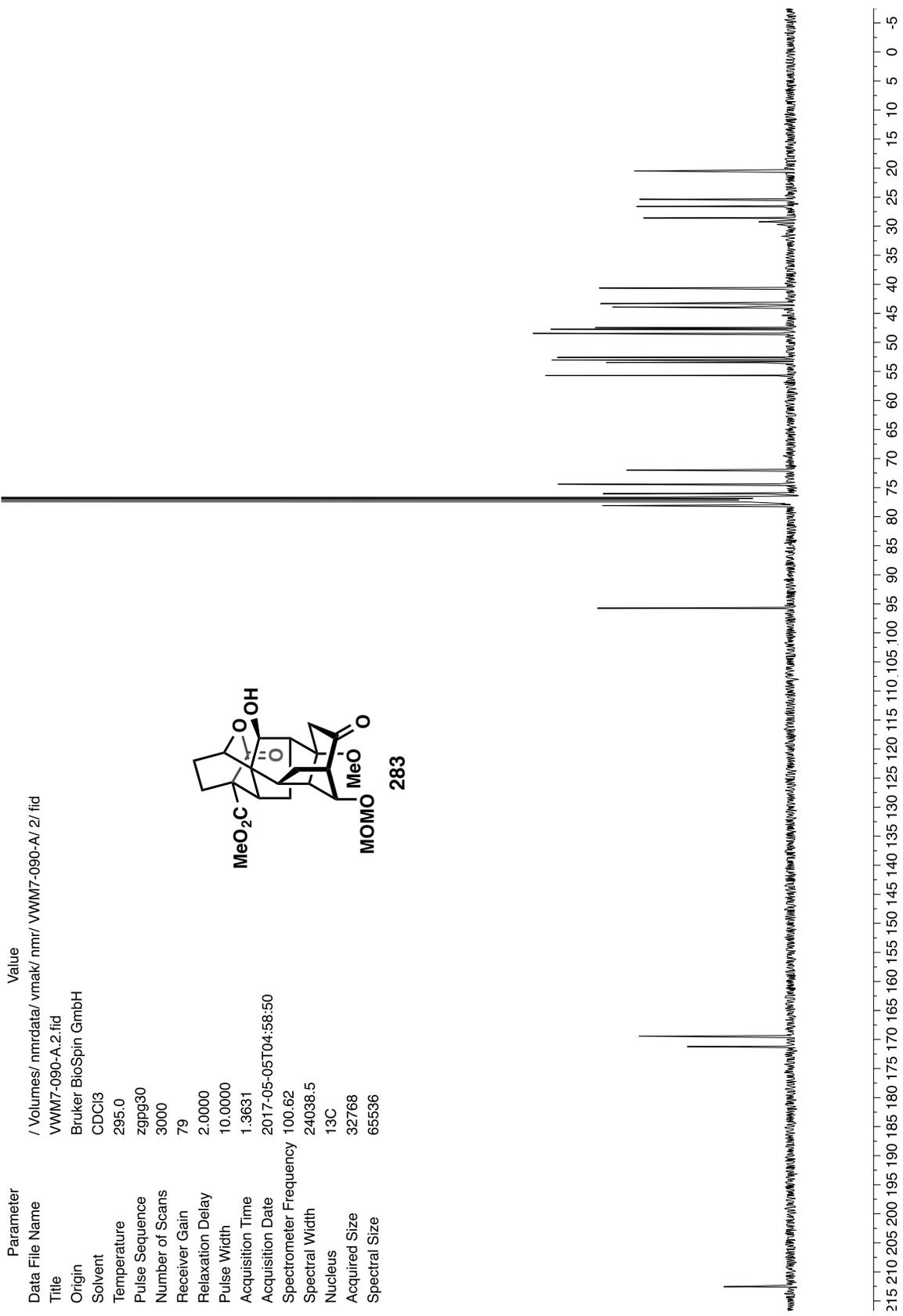


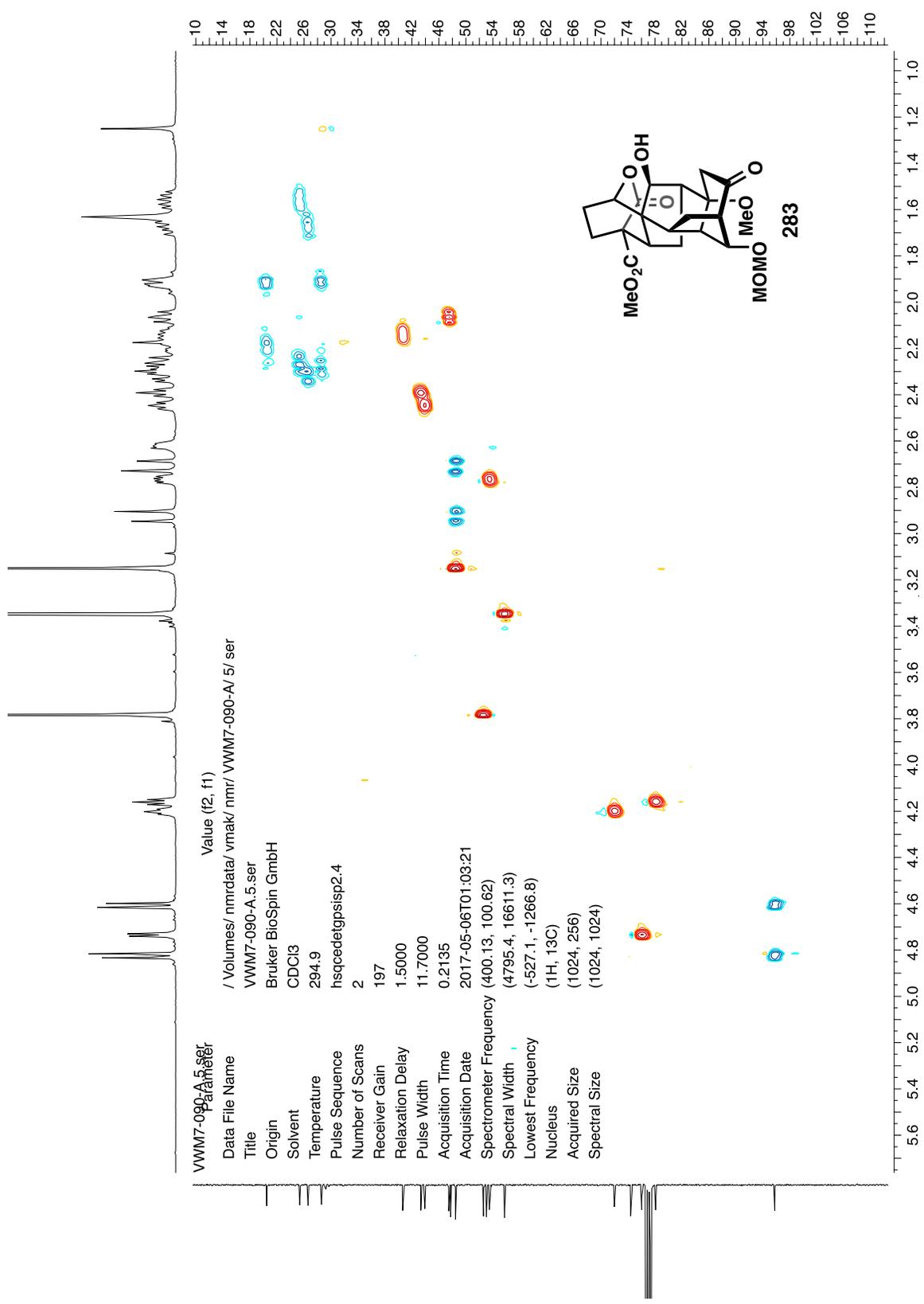


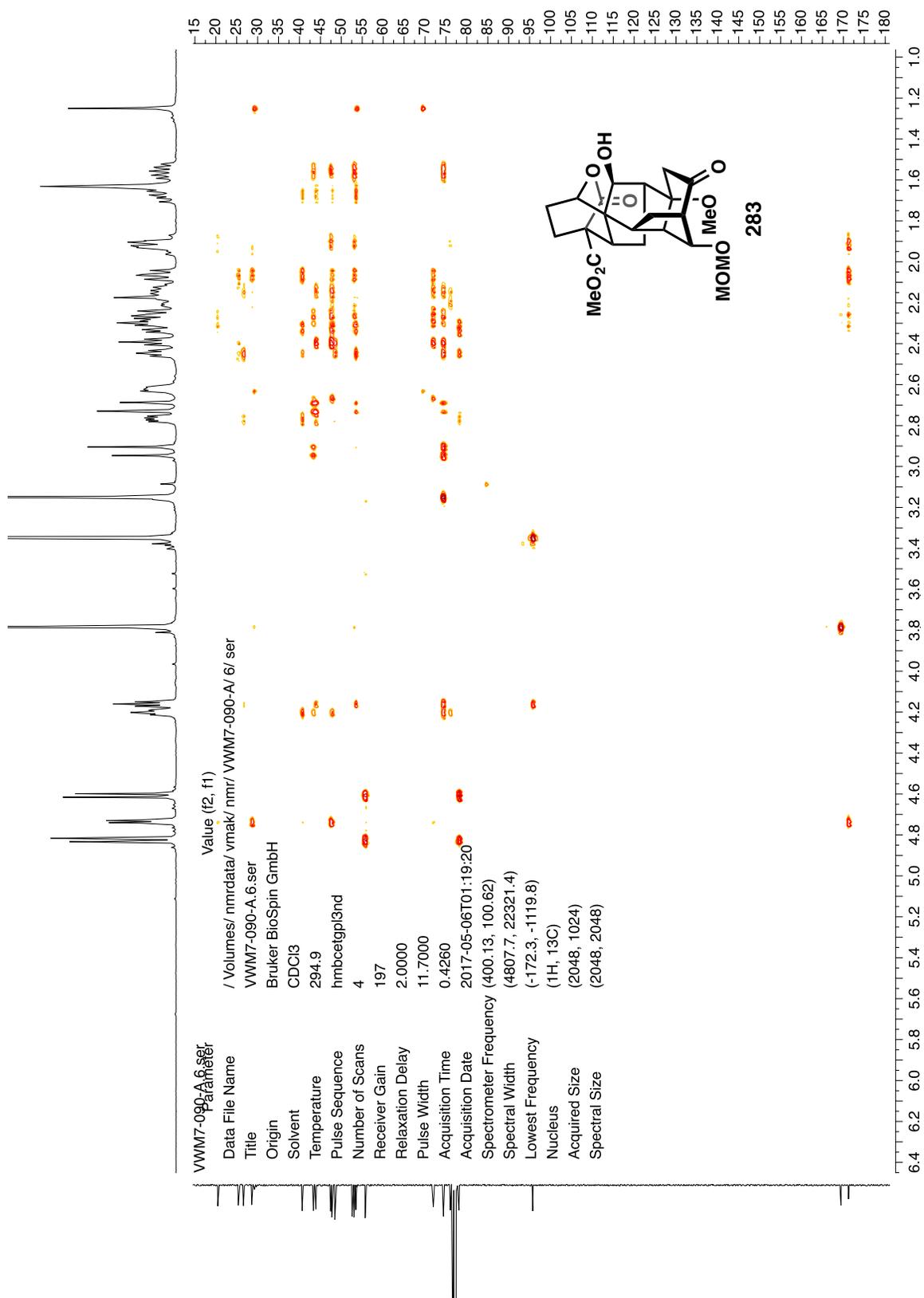


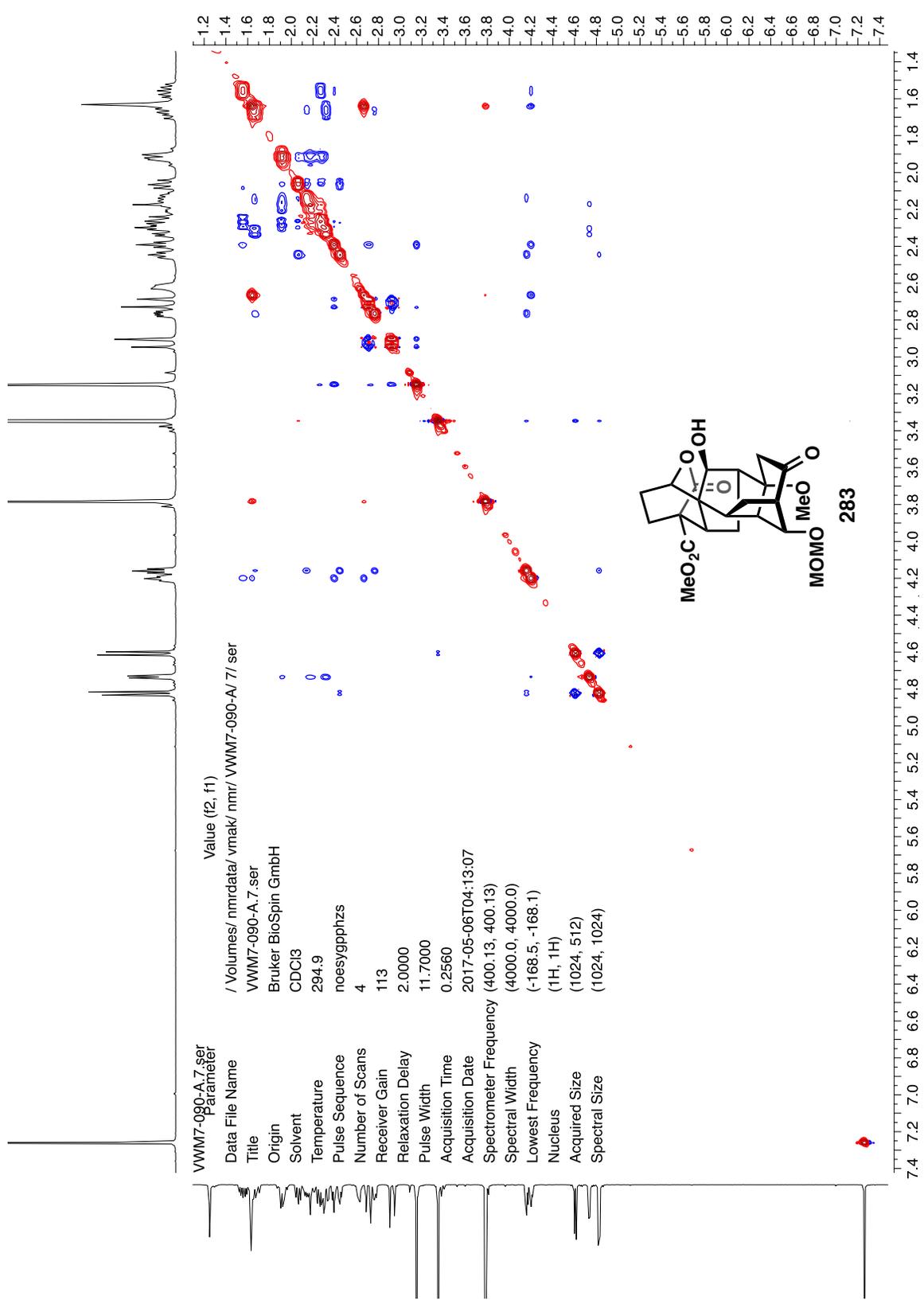
Parameter Value  
 Data File Name / Volumes/ nmrdata/ vmak/ nmr/ VWM7-090-A/ 1/ fid  
 Title VWM7-090-A\_1.fid  
 Origin Bruker BioSpin GmbH  
 Solvent CDCl3  
 Temperature 294.9  
 Pulse Sequence zg30  
 Number of Scans 16  
 Receiver Gain 197  
 Relaxation Delay 1.0000  
 Pulse Width 11.7000  
 Acquisition Time 4.0894  
 Acquisition Date 2017-05-05T02:06:53  
 Spectrometer Frequency 400.13  
 Spectral Width 8012.8  
 Nucleus 1H  
 Acquired Size 32768  
 Spectral Size 65536

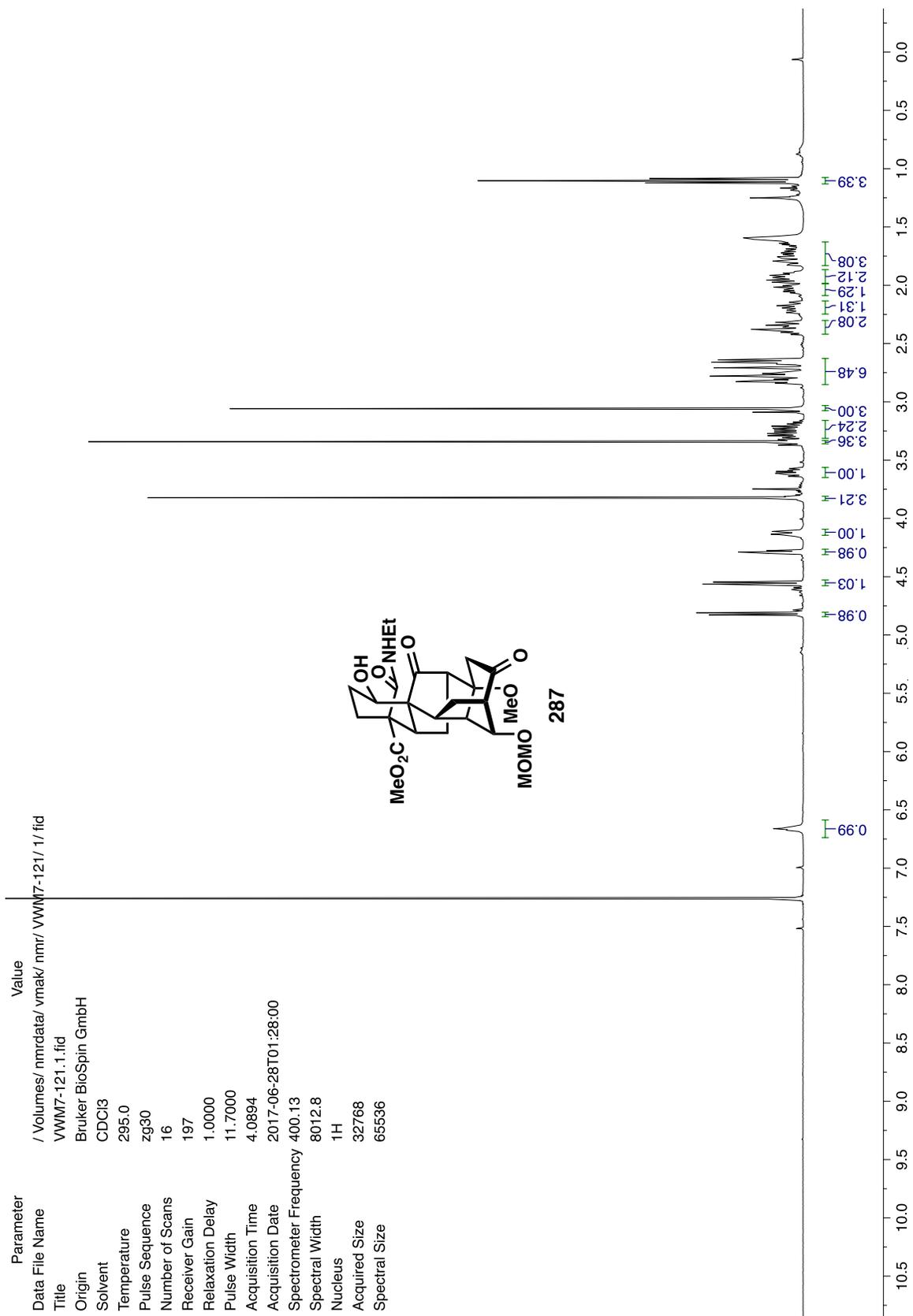


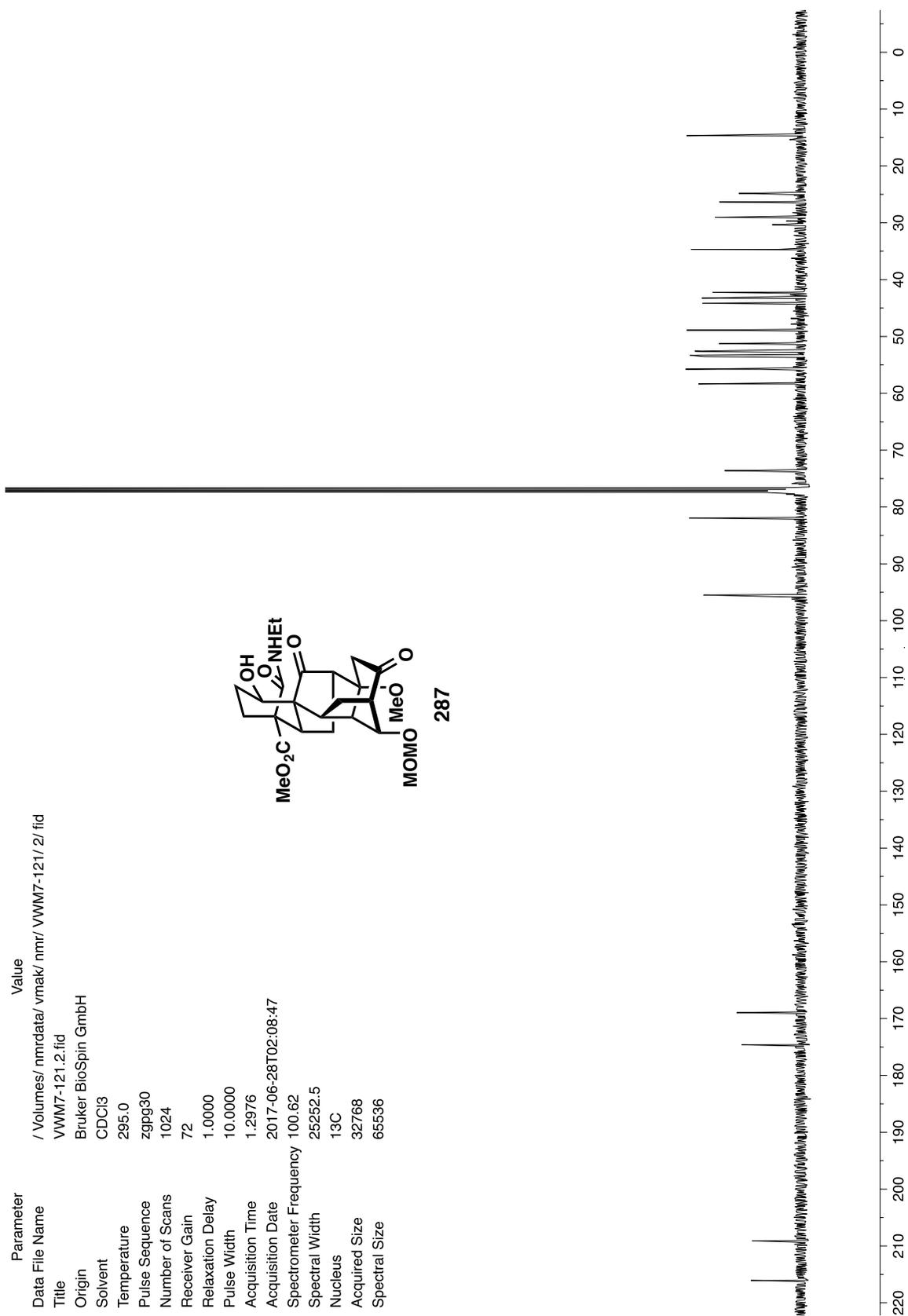


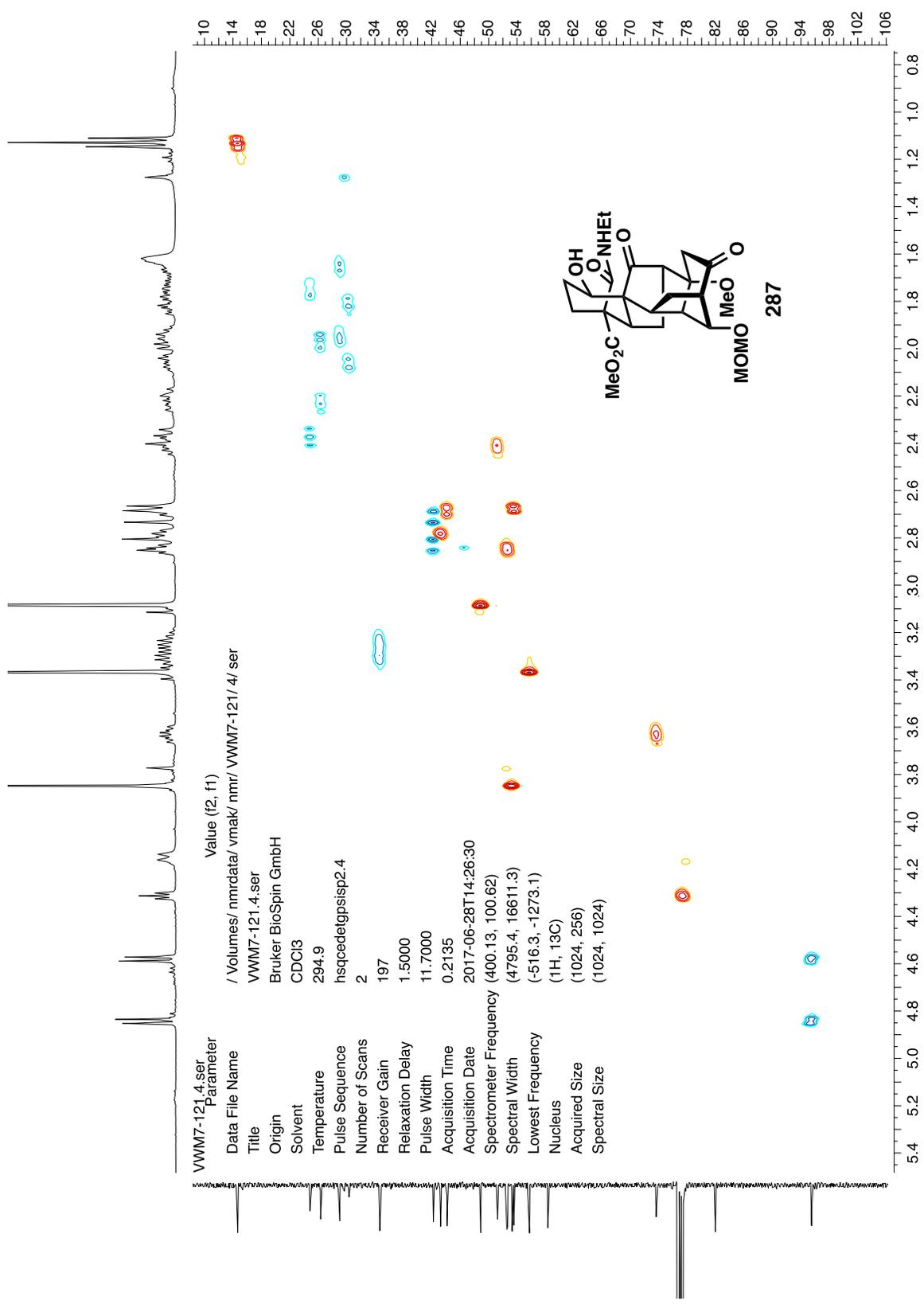


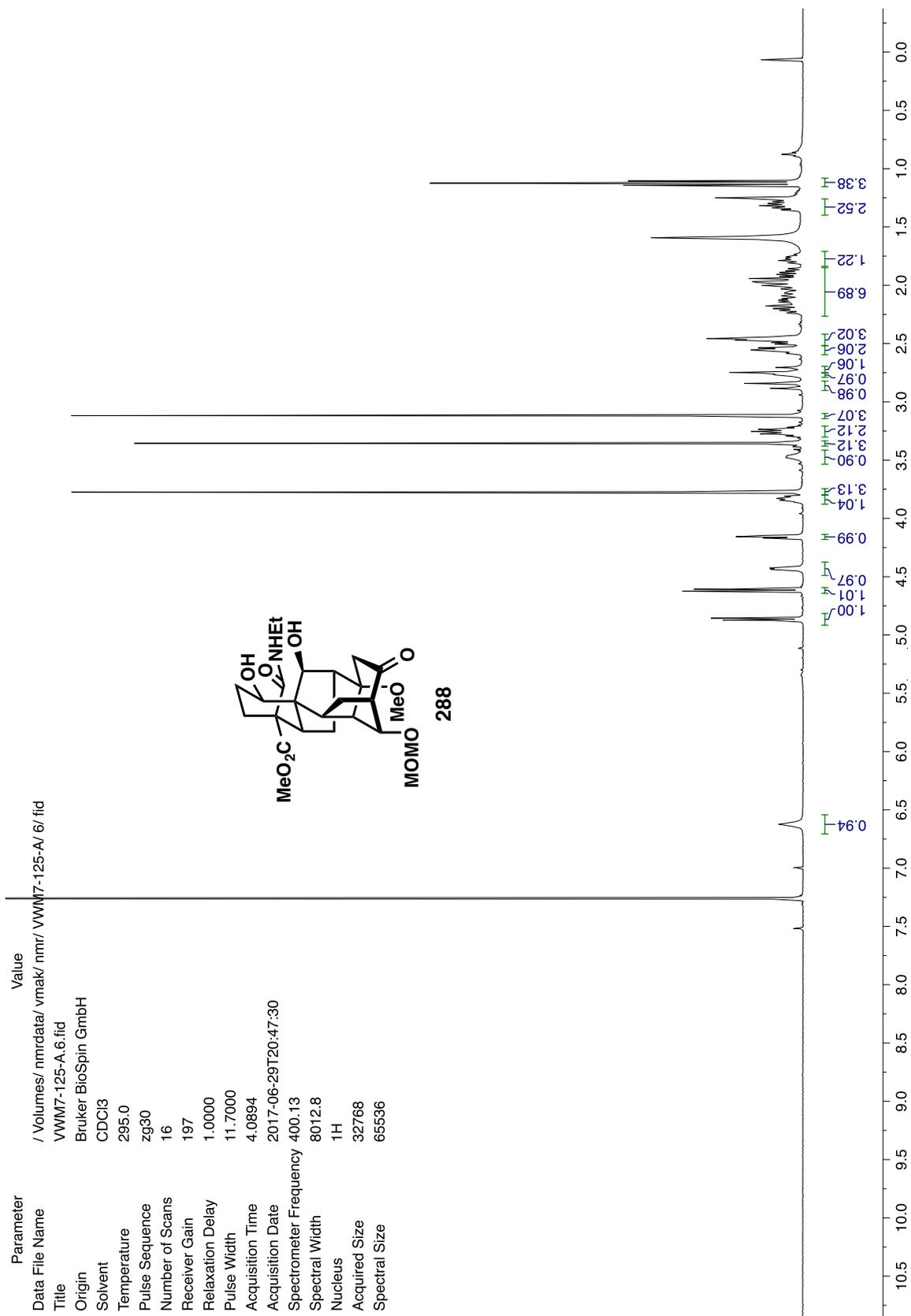


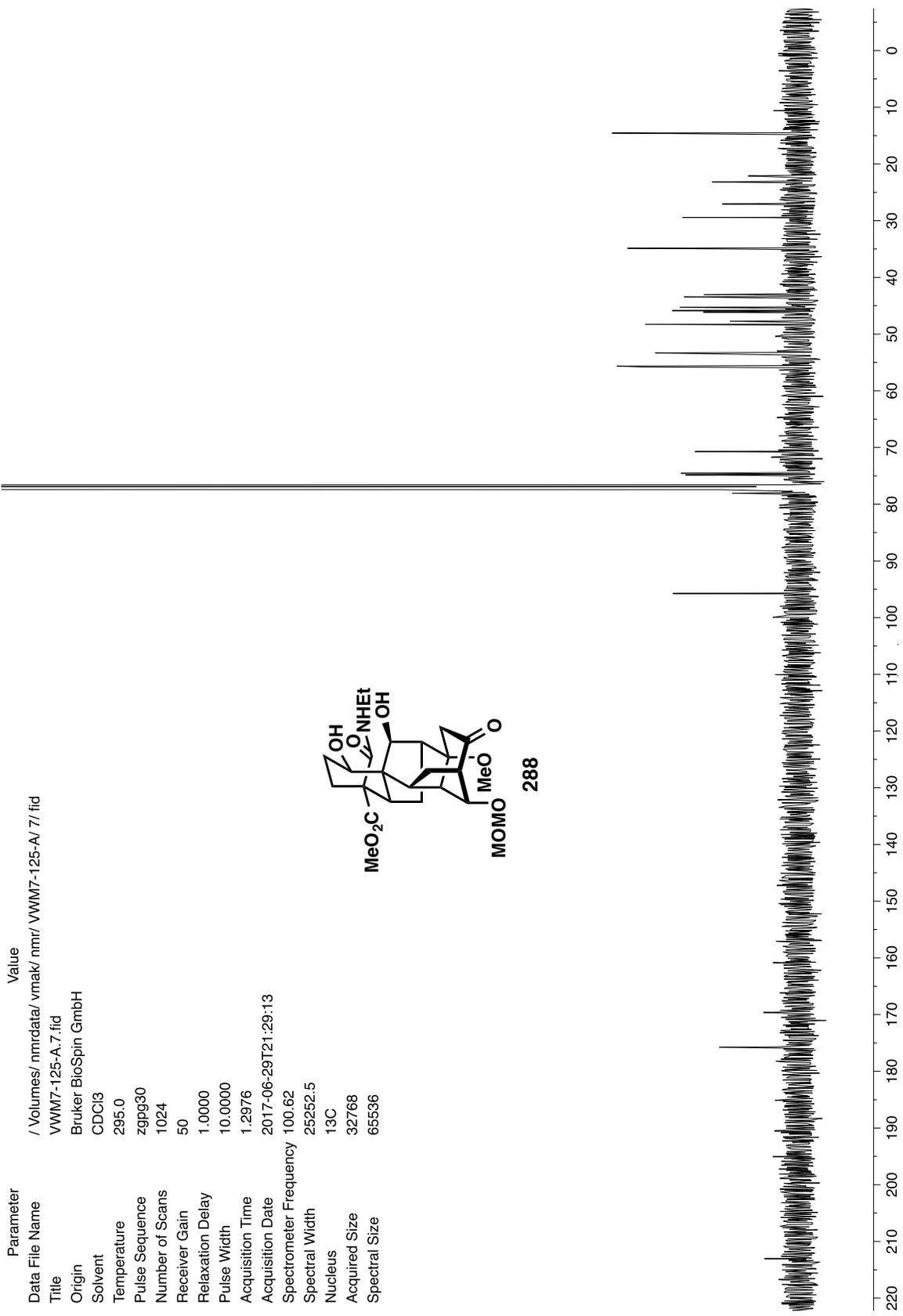


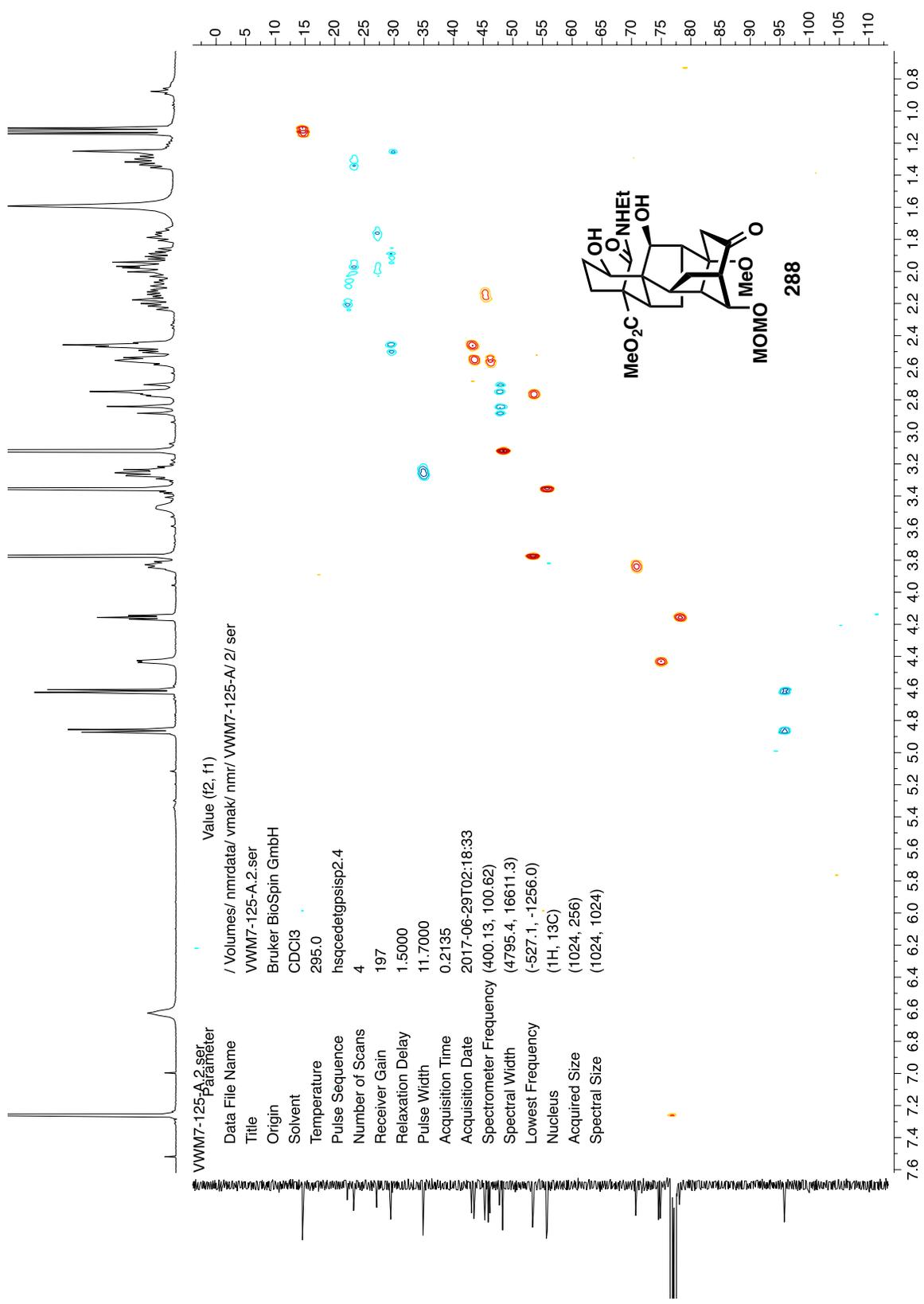


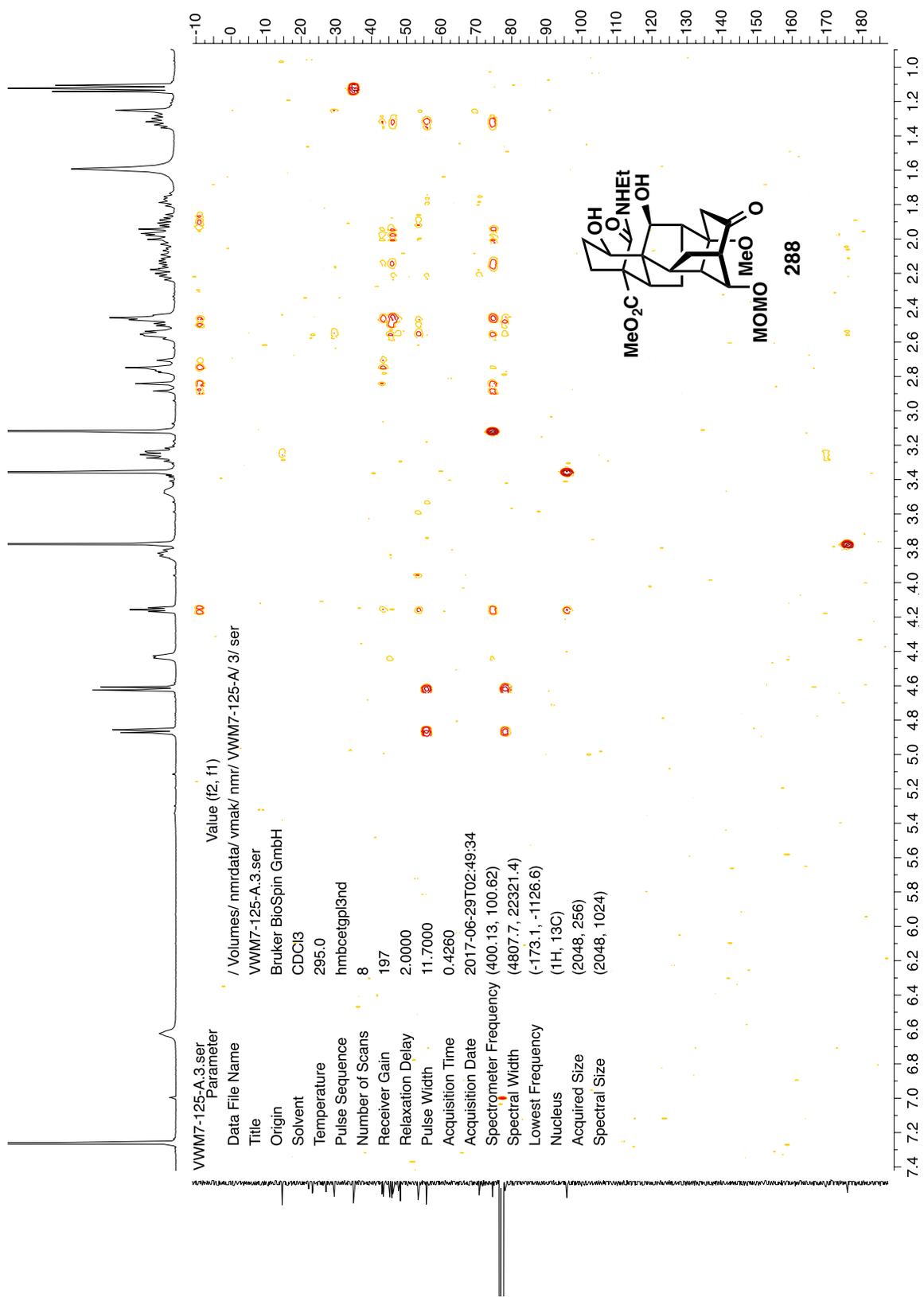


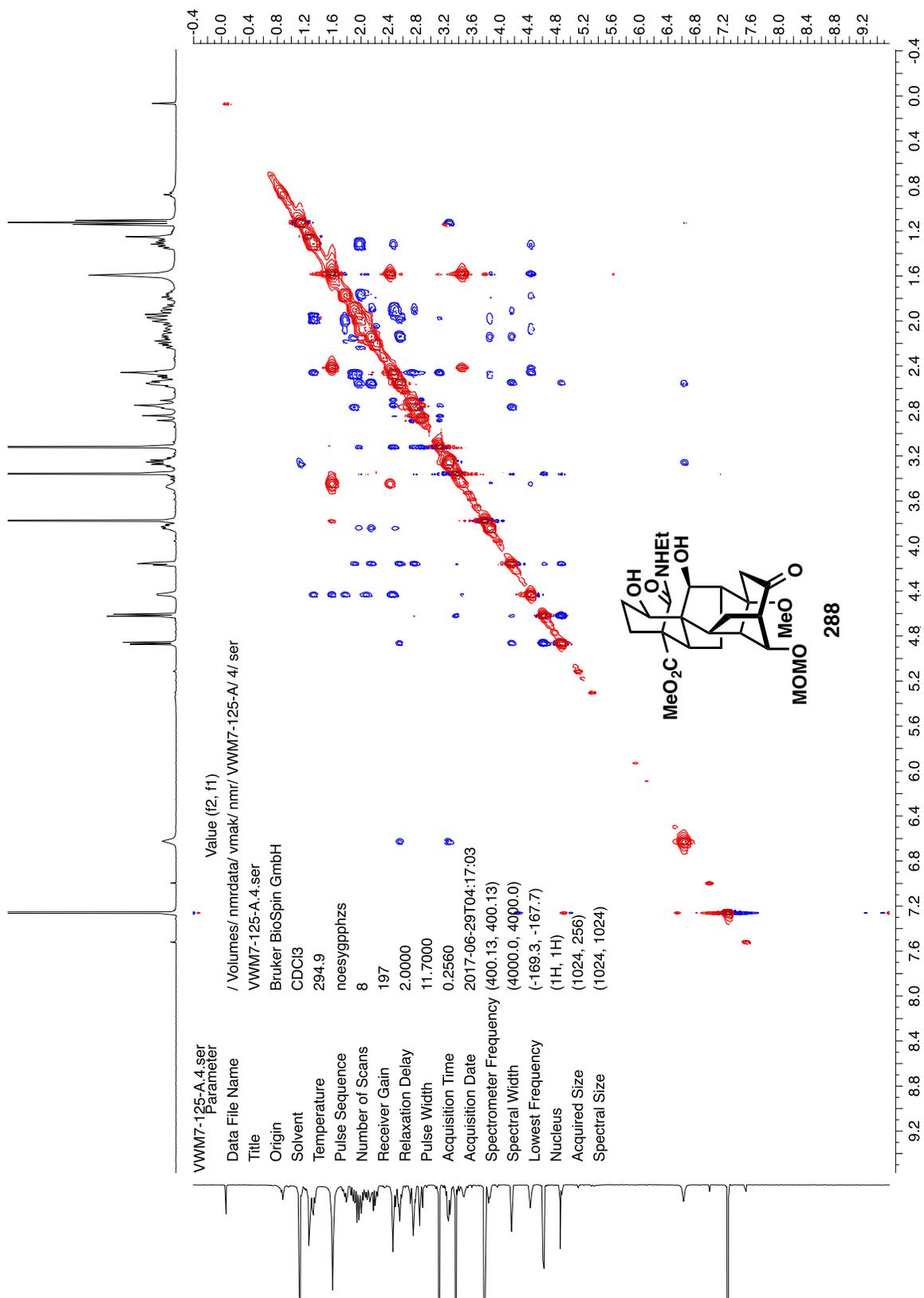


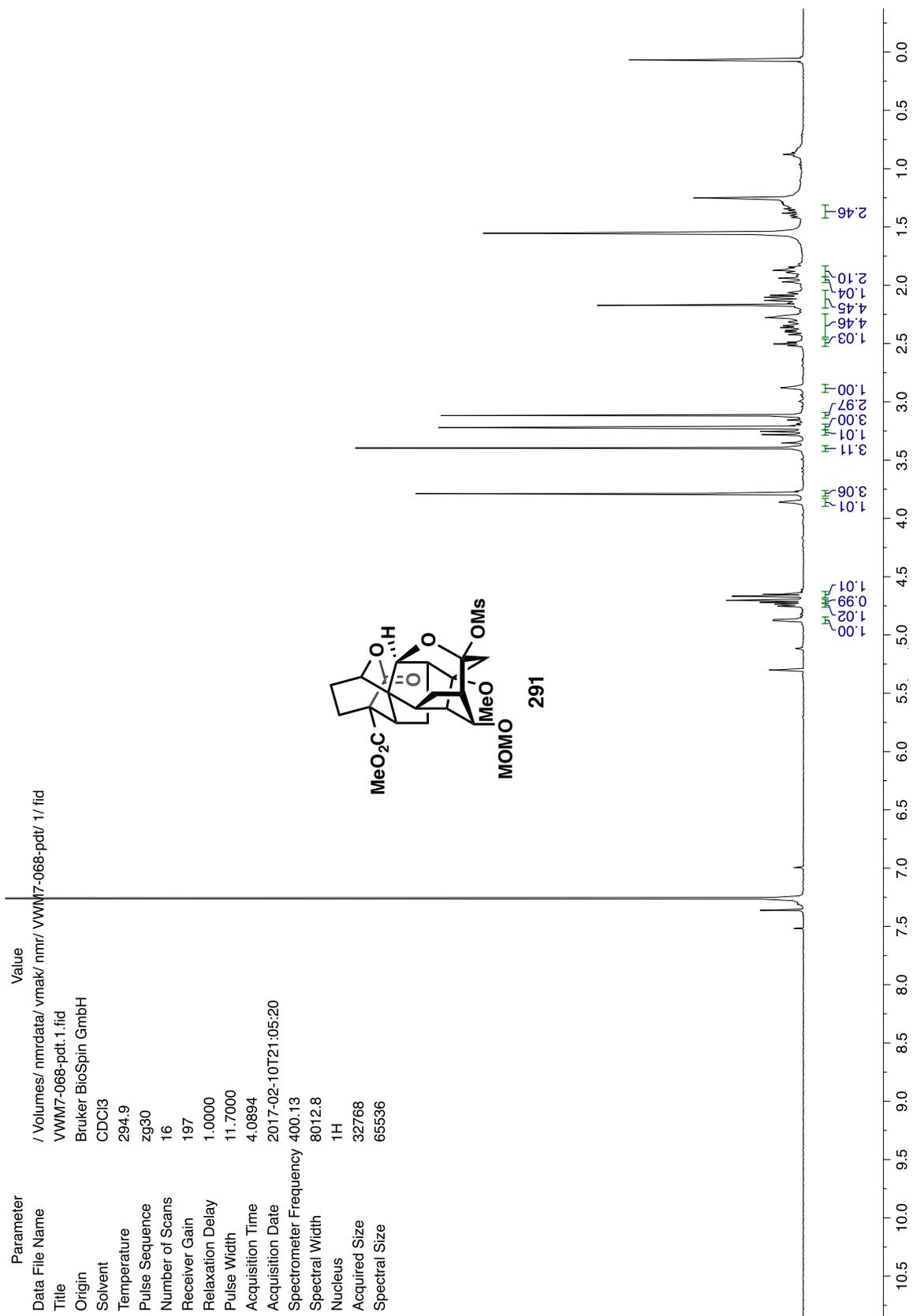


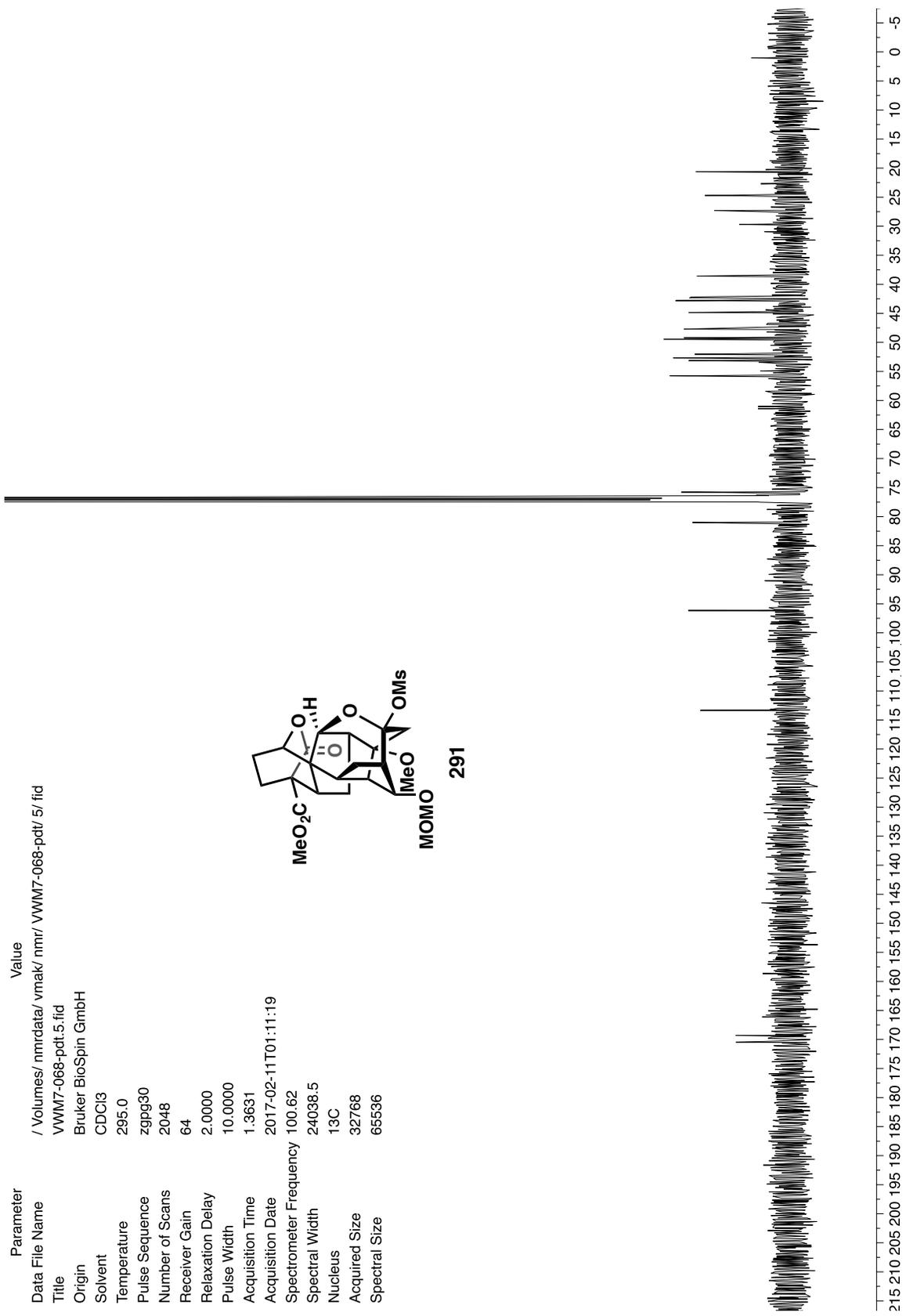


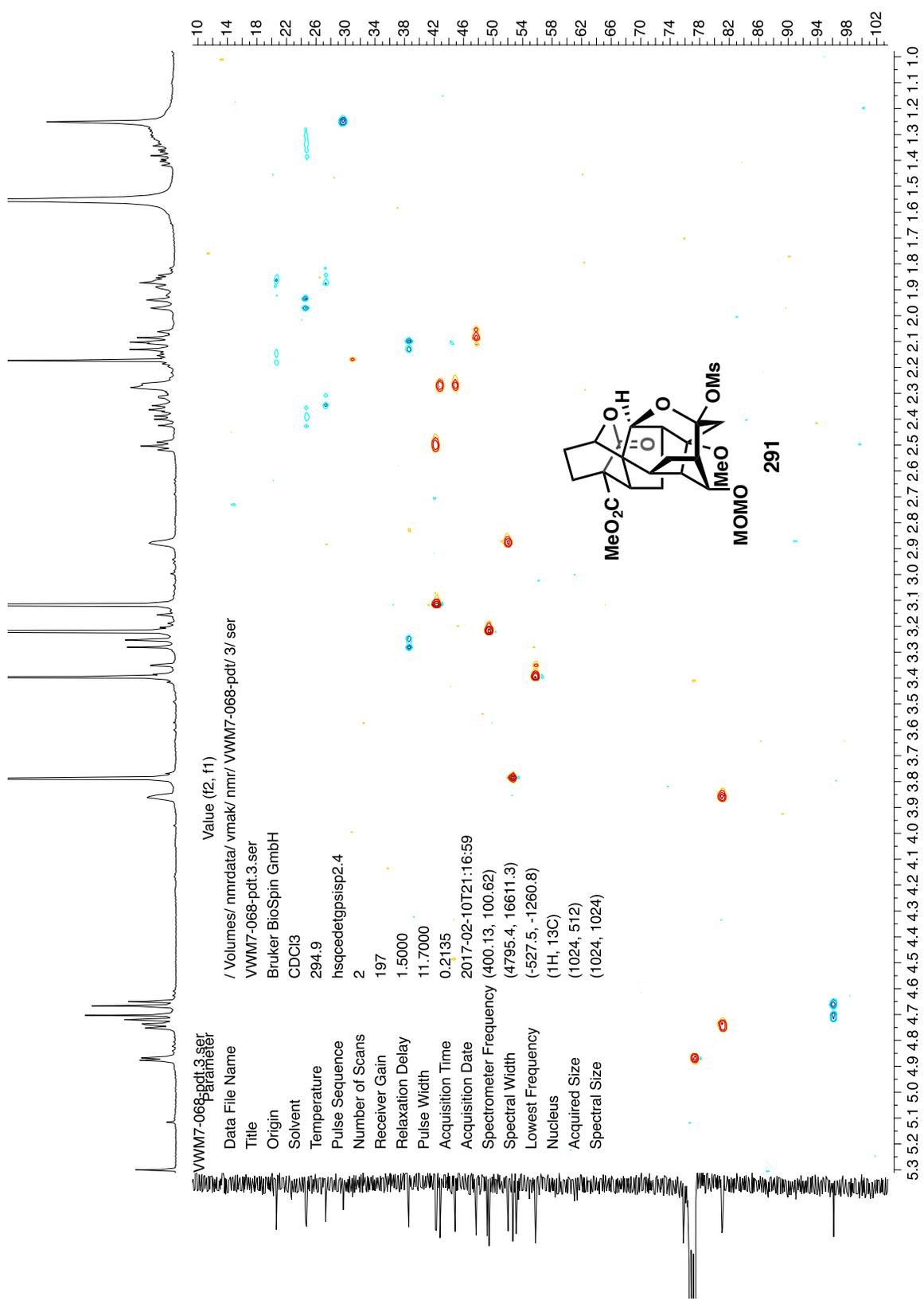


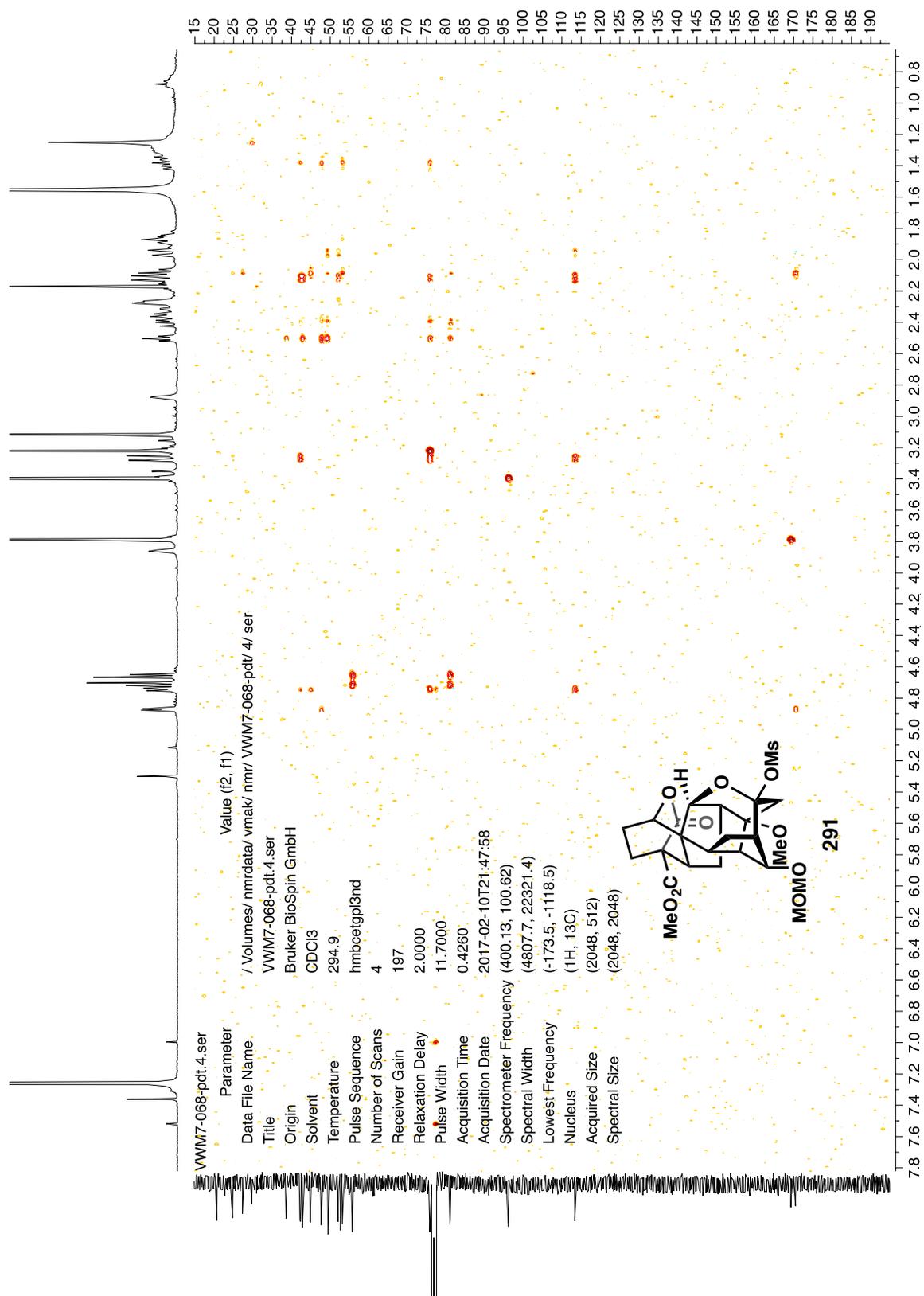












Parameter Value  
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 Nucleus 1H  
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