

On the Divergent Reactivity of Allenylstannanes Generated from the O-Directed Free Radical Hydrostannation Reaction of (\pm)-*Trans*-3-(2- Phenylcyclopropyl)prop-2-yn-1-ol. EPR Evidence for the Reversible Addition of Ph₃Sn Radicals to Vinyl Triphenyltins

K. Lawrence E. Hale,^a Alistair J. Fielding,^{*b} and Karl J. Hale^{*a,c}

^a*The School of Chemistry & Chemical Engineering,
Queen's University Belfast,
Stranmillis Road, Belfast BT9 5AG,
Northern Ireland, United Kingdom.*

^b*The School of Pharmacy and Biomolecular Sciences,
Liverpool John Moores University,
Byrom Street, Liverpool L3 3AF,
United Kingdom.*

^c*Current Address: Halazar Pharma Ltd, Edgware, Middx, HA8 7RB, UK.*

Email: k.hale120@btinternet.com
A.J.Fielding@ljmu.ac.uk

Electronic Supplementary Information

(139 Pages Inclusive of Cover Pages)

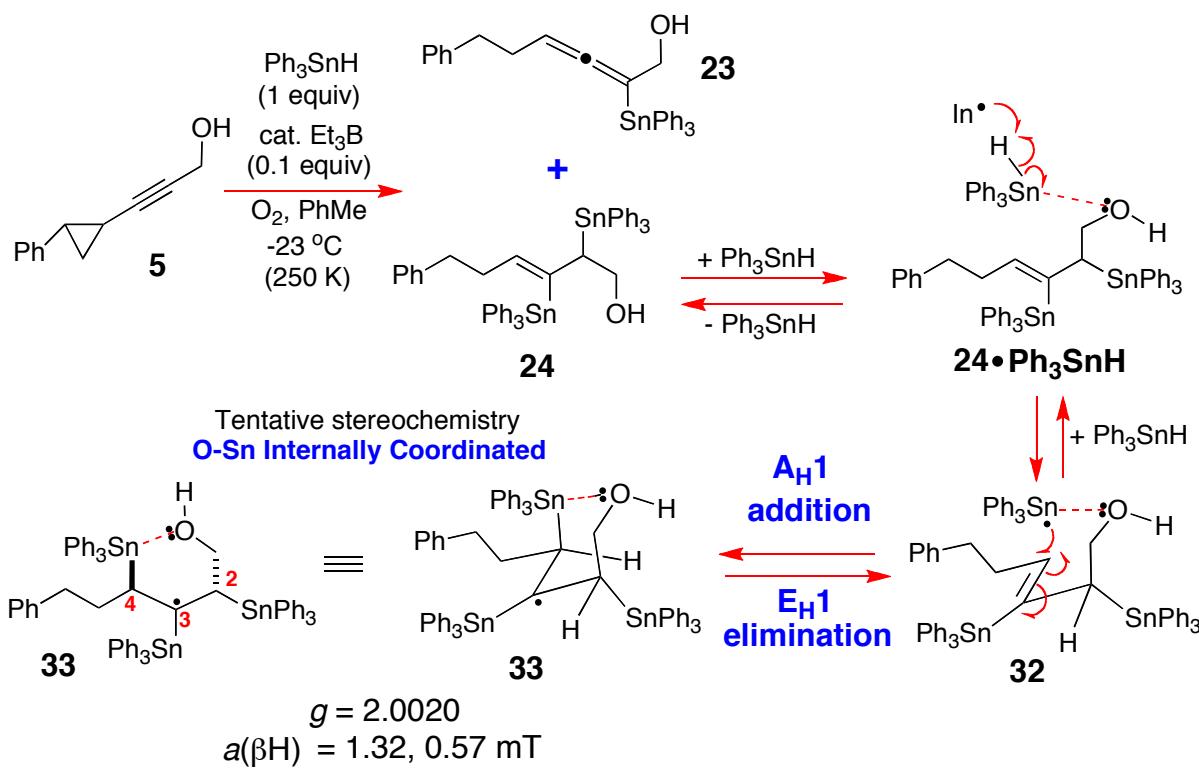
Dedicated to the memory of Professor Alwyn G. Davies FRS of UCL, whose numerous profound mechanistic contributions to the field of organometallic free radical chemistry will have enduring impact. Sadly, he died on 1st September 2023, aged 97 years, but his fine work, always done correctly, with great thoroughness and thought, will forever guide and inspire future generations.

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Part A. EPR Experiments

The Optimised Experimental Conditions for Observing the Radical 33 from the O-Directed Free Radical Hydrostannation Reaction of 3-((1*S*^{*},2*R*^{*})-2-Phenylcyclopropyl)prop-2-yn-1-ol (5) with Ph₃SnH/cat. Et₃B in PhMe



At the very outset of this experiment an approximately 1 M solution of Ph₃SnH in dry PhMe was made up by carefully weighing Ph₃SnH (1.707 g, 4.86 mmol) into a 25 mL septum-capped round-bottomed flask within an argon-filled glove bag, and maintaining the Ar atmosphere throughout the septum-stoppering and weighing procedure. An Ar-filled balloon was then attached to that septum-stoppered flask and PhMe (4.86 mL, Aldrich, Sure-Seal) was added and the flask gently swirled until all of the Ph₃SnH had fully dissolved. The resulting 1 M solution was then used for the subsequent EPR experiments that were conducted over a range of temperatures, under a wide range of experimental conditions.

With regard to the experimental conditions that were used to observe the key dd for radical **33**, we followed the procedure set out below.

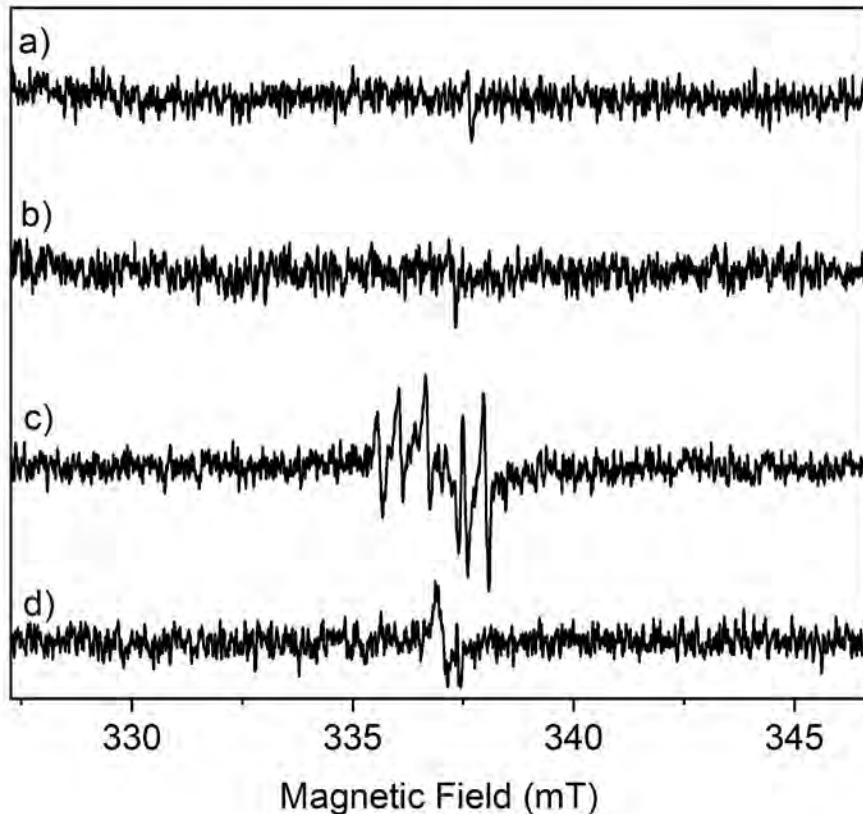
The crystalline probe **5** (100.29 mg, 0.582 mmol) was carefully weighed into a small 5 mL round-bottomed flask, and the flask was gently flushed with Ar gas, before it was stoppered with a rubber-septum that was connected to an Ar-filled balloon. The reaction flask was clamped, and an aliquot of the aforementioned 1 M solution of Ph₃SnH (0.58 mL, 1 equiv) was added to that pre-weighed sample of **5** via syringe. The reaction flask was then gently swirled at rt to fully dissolve all of the probe **5**. When dissolution was complete, Et₃B (0.06 mL, 1M solution in hexanes, 0.06 mmol) was added dropwise at rt via syringe, carefully ensuring that the Et₃B solution was visibly seen to drop directly into the reaction solution inside the flask. After brief swirling, the rubber septum was then removed, and an air-filled glass pipette was used to initiate the hydrostannation reaction, by sucking up the contents of the reaction flask into the pipette and then discharging this solution back into the reaction flask, three times, to ensure that efficient mixing of the reactants and the air had been achieved. An aliquot of that reaction mixture was then immediately taken and transferred into a standard X-band quartz EPR tube, rapidly, and the tube was capped and then immediately introduced into the EPR spectrometer whose probe had been precooled to 250 K (-23 °C). After approximately 10 min at that temperature, a strong dd for the radical **33** began to be observed, and it steadily grew stronger over the course of 40 min/1 h, whereafter it persisted steadily at that temperature for quite a considerable period, alongside what we believe is the O-coordinated tin radical **32**, which can only be *tentatively* assigned. TLC analysis of the rt reaction mixture that remained, using 4:1 petrol:EtOAc as eluent, only revealed the presence of a single faster-moving seemingly homogenous spot which corresponded to **23** and **24** when stained in anisaldehyde stain. Unreacted starting alkynol **5** also always remained. Following staining and heating of the TLC plate, the faster-moving spot, which corresponded to a mixture of **23** and **24**, stained a white/purple colour. This was highly characteristic of these two compounds.

Control Experiments without the Probe 5, With Probe 5 Later Added, and with Probe 5 and cat. Et₃B Without Ph₃SnH Being Added

Without the Probe 5. To a -78 °C (195 K) 1 M solution of Ph₃SnH (0.44 mL, 1 equiv) in a small 5 mL round-bottomed flask under dry Ar was added Et₃B (0.044 mL, 1 M solution in hexanes) dropwise, making sure that the Et₃B solution was visibly seen to be dropping into the solution inside the flask. After briefly swirling, the rubber septum was then removed, and an air-filled glass pipette was used to initiate triphenylstannyl radical formation, by sucking up the contents of the reaction flask into the pipette and then discharging this solution back into the reaction flask, *three times*, to ensure that efficient mixing of the reactants and the air was achieved. An aliquot of this reaction solution was then immediately transferred to a standard X-band quartz EPR tube, rapidly, and the tube was capped, and this tube was then immediately introduced into the EPR spectrometer that had been precooled to (195 K). When it was warmed to 250 K (-23 °C), still no signal was observed (Fig. 1b on page 6).

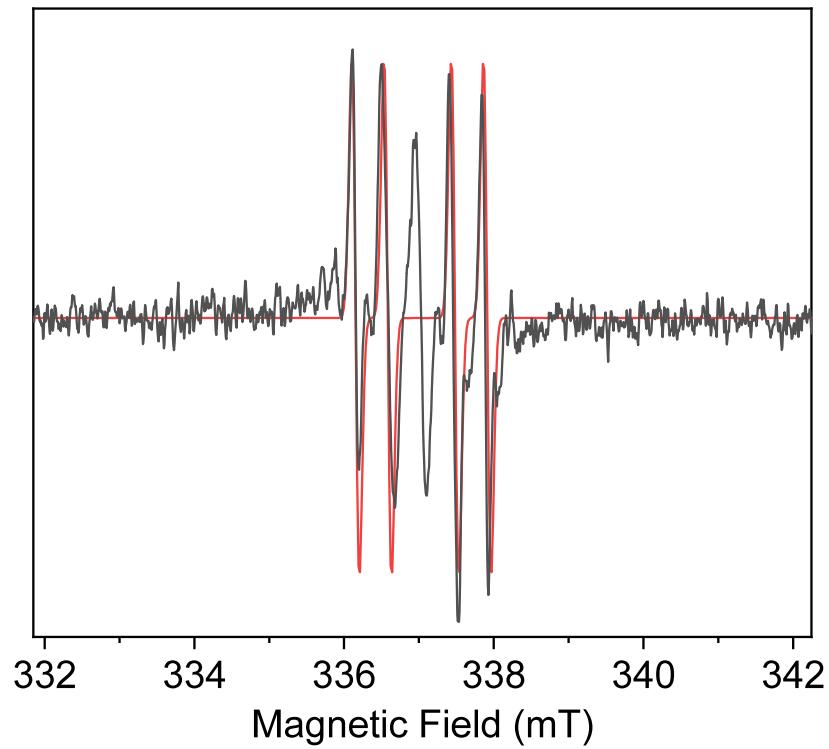
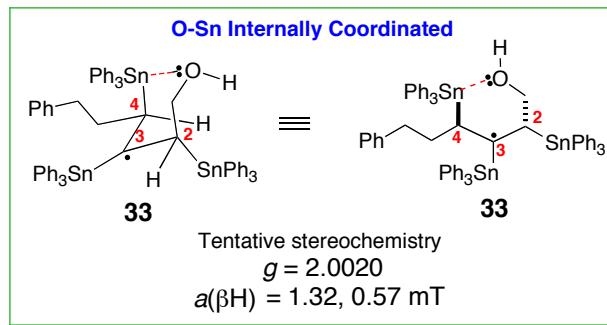
With Probe 5 Later Added. However, when a small quantity of the solid probe **5** was subsequently added to that same EPR tube, and the tube was shaken to dissolve the newly added **5**, and then quickly returned to the EPR spectrometer at 250 K, the aforementioned dd for **33** was again observed, as previously, alongside what we believe is the O-coordinated tin radical **32** (R = Ph) (Fig. 1c on page 6).

With Probe 5 and cat. Et₃B, Without Ph₃SnH Being Added. A similar totally separate control experiment was thereafter conducted with alkynol **5** (1 equiv, 76 .1 mg, 0.0442 mmol) in PhMe (0.44 mL), where Et₃B (1 M in hexanes, 0.044 mL, 0.1 equiv) was added, and the above air-flushing was conducted prior to addition of an aliquot of the solution to the EPR tube. After 162 scans, only the br signal shown in Fig. 1d was observed (see Fig. 1d on page 6).



SI Fig. 1. EPR spectra of control experiments taken at 250 K. a) Empty tube. b) Spectrum in the absence of probe **5** (as described above). c) Spectrum upon addition of solid alkynol probe **5**. d) Spectrum for alkynol **5**, cat. Et₃B and O₂ in PhMe, prepared by the method described, except without the Ph₃SnH being present.

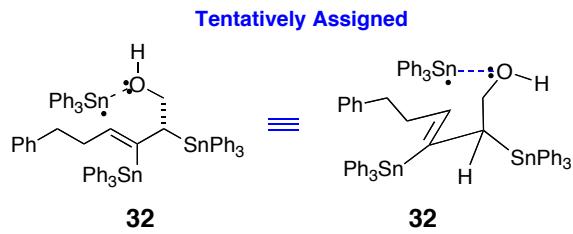
Further Discussion of the EPR Spectrum Obtained for Radical **33 with Various Simulations**



SI Fig. 2. EPR spectrum of the (\pm) -2,3,4-tris(triphenylstannyl)hex-3-yl radical **33** in PhMe at 250 K (black) with EasySpin simulation¹⁶ (in red) overlaid. Radical **33** appears as a dd (N.B. This is Fig 1 in the main paper); internal coordination is suggested to occur between the C(1)-OH and the C(4)-Sn.

Various EasySpin simulations¹⁶ of the radical **33** were performed for a range of hyperfine coupling constant (a) values, and a dd line pattern produced the best-fit, with the lowest level of

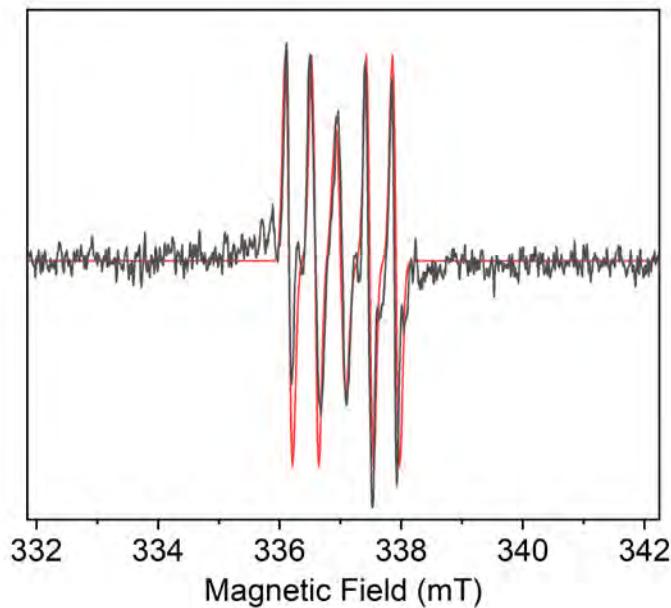
discrepancy from the experimental data (SI Fig. 2). The above simulation assumed a hyperfine coupling from the protons at C(2) and C(4) within the 0.1 mT linewidth. It was not possible to observe the expected $^{119/117}\text{Sn}$ hyperfine splittings due to their large magnitude and their low intensity, and they may well be overlapping with resonator background signals observed at wider field scans.



A relatively broad singlet could also be seen in the centre of the spectrum of **33**. While it was tempting to initially attribute this singlet to the uncoordinated Ph_3Sn radical, which is known to have a g value

close to $g = 2$,³²⁻³⁴ our control experiment with Ph_3SnH and cat. $\text{Et}_3\text{B}/\text{O}_2$ in PhMe clearly ruled out this possibility (See SI Fig. 1b).

A different and much more plausible explanation for the broad singlet at that resonance position is that it is due to the O-coordinated Ph_3Sn radical **32**, which would be expected to have much greater longevity than the uncoordinated Ph_3Sn radical, due to it being stabilised by the coordinating O-atom, and it being more sterically shielded. Further stabilisation of **32** could also



SI Fig. 3. EPR spectra of the 2,3,4-tris(triphenylstannylyl)hex-3-yl radical **33** in PhMe at 250 K (black) and radical **32** with EasySpin simulation¹⁶ (in red) overlaid. Radical **32** is **tentatively** assigned (see discussion above). The relative weighting of radicals **33** and **32** was 80:20, respectively.

come from it reversibly adding onto the alkene at the β -C(4) position to give **33** and the latter then O-coordinatively eliminating back into **32** (see Scheme 6 of our main paper). SI Fig. 3 shows our EPR simulation of this tentatively assigned radical **32** using similar parameters to the literature.³¹⁻³³

Minor resonance lines were also apparent in the EPR spectrum of **33** and its very tentatively assigned precursor radical **32**; those peaks partially overlapped with the main dd and br s. However, it was not possible to discern the exact nature of these other radical species due to their much lower signal intensity.

The benzylic free radical intermediate **29** (Scheme 5, main paper) could very clearly be ruled out as being present in the EPR spectrum in SI Figs. 2 and 3, due to the wide spectral width of the hyperfine splittings of the benzyl radical itself.^{35,36} Indeed, Davies and Pereyre³⁶ noted that the benzylic radical derived from a related 2-phenylcyclopropyl carbonyl ring-opening gave rise to a broad unresolvable signal.

In light of this, and because of our unambiguous structure determination of **24**, we have assigned the dd in our main paper Fig. 1 EPR spectrum to the 2,3,4-*tris*(triphenylstannyl)hex-3-yl radical **33**. The reversible elimination of **33** to give back **32**, followed by O-coordinated re-addition of the tin radical in **32** to return **33** would further very likely hyperconjugatively stabilise the two respective radicals.

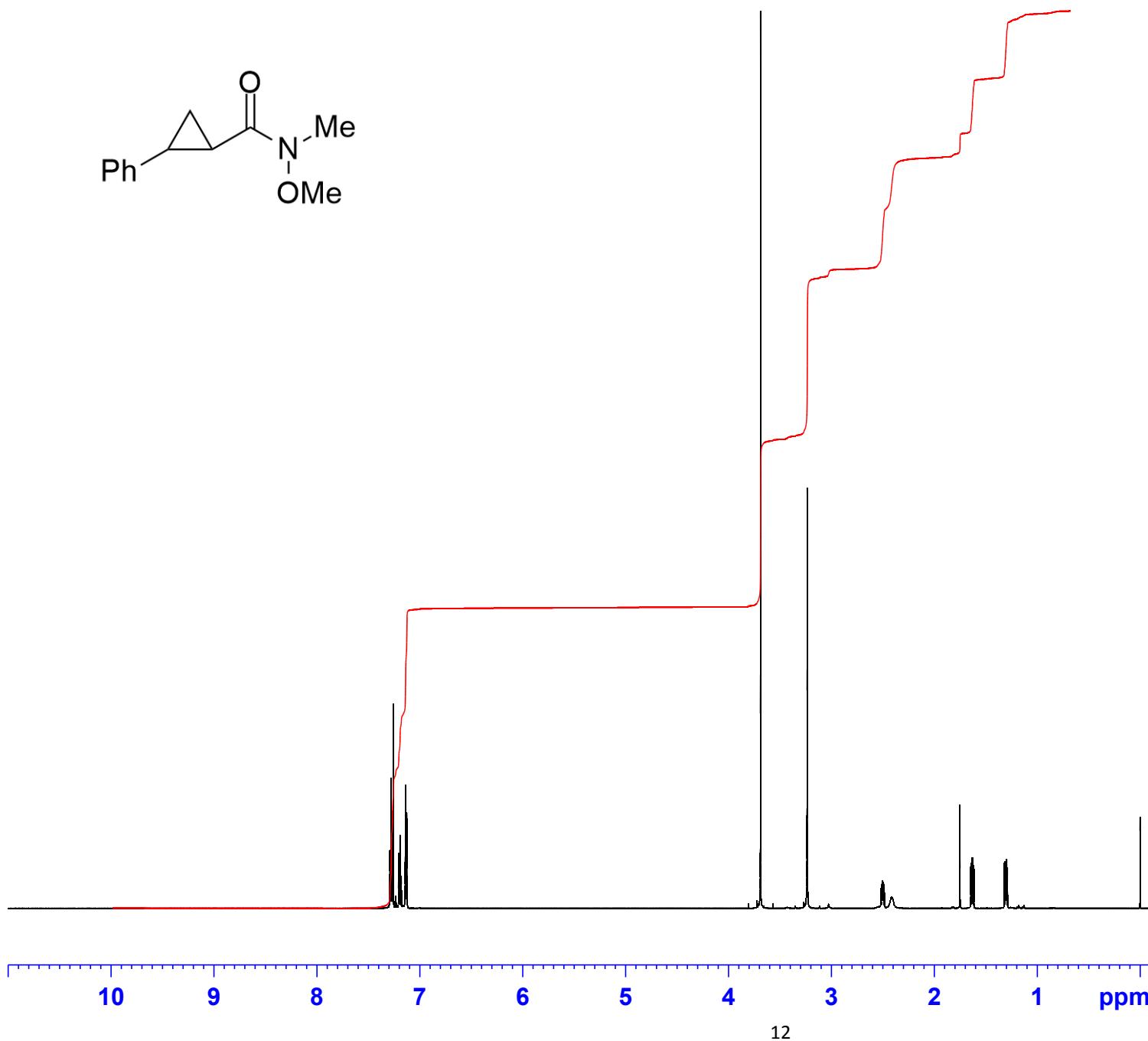
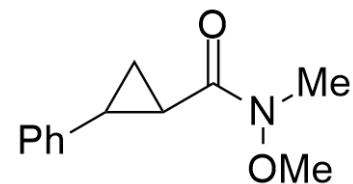
In light of this, and because our proposed radical **33** will likely be much more electronically stabilised than **32**, and it will also be too sterically hindered to quench by H-atom abstraction from the Ph₃SnH, we consider that the O-coordinated structure we have formulated for **33**, best fits all of the available data and the main dd observed, and the NMR spectroscopic data that is currently available for **24** and **23**. Clearly the radical that we are observing by EPR cannot be **31c** (derived from **23**) since **31c** would give rise to a ddd signal rather than the observed dd. The only sensible Ph₃Sn radical adduct that aligns with this EPR signal and product **24** is a 2,3,4-*tris*(triphenylstannyl)hexyl type radical such as **33**, and the fact that the radical **33** does not eliminate its C(2)-SnPh₃ group can only be further satisfactorily explained by invoking an intramolecular Sn-O coordination event lengthening and weakening the C(4)-SnPh₃ bond

selectively. Hence, our *tentative* proposal that the broad singlet in the middle of our EPR spectrum is due to radical **32**. Future work will address these current assignments further and in more detail.

Pertinent EPR References from Main Paper

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33. T. Berclaz, and M. Geoffroy, *Chem. Phys. Lett.*, 1977, **52**, 606.
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35. P. J. Krusic, and J. K. Kochi, *J. Am. Chem. Soc.*, 1968, **90**, 7155.
36. M. Castaing, M. Pereyre, M. Ratier, P. M. Blum, and A. G. Davies, *J. Chem. Soc. Perkin Trans. II*, 1979, 589.

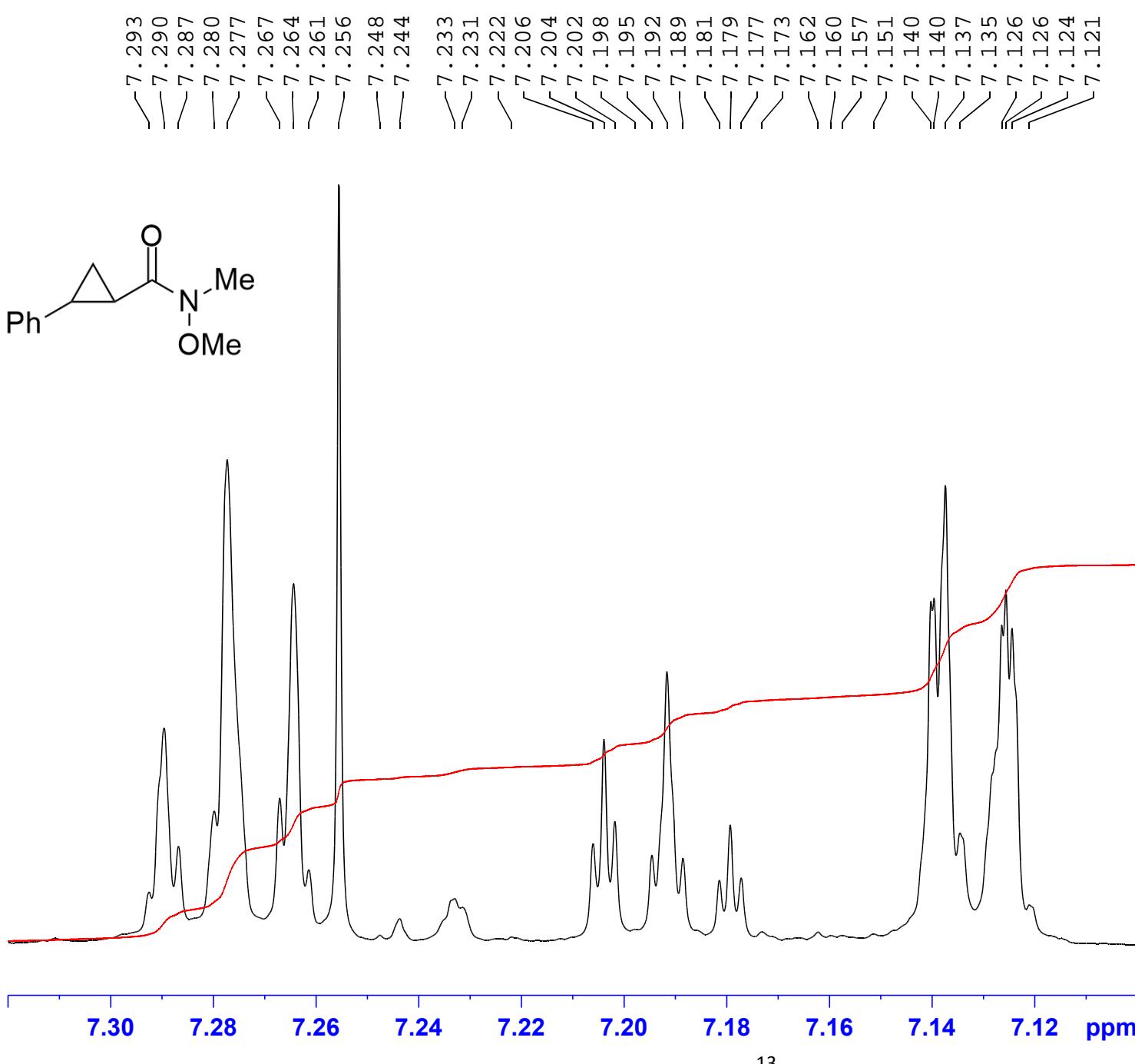
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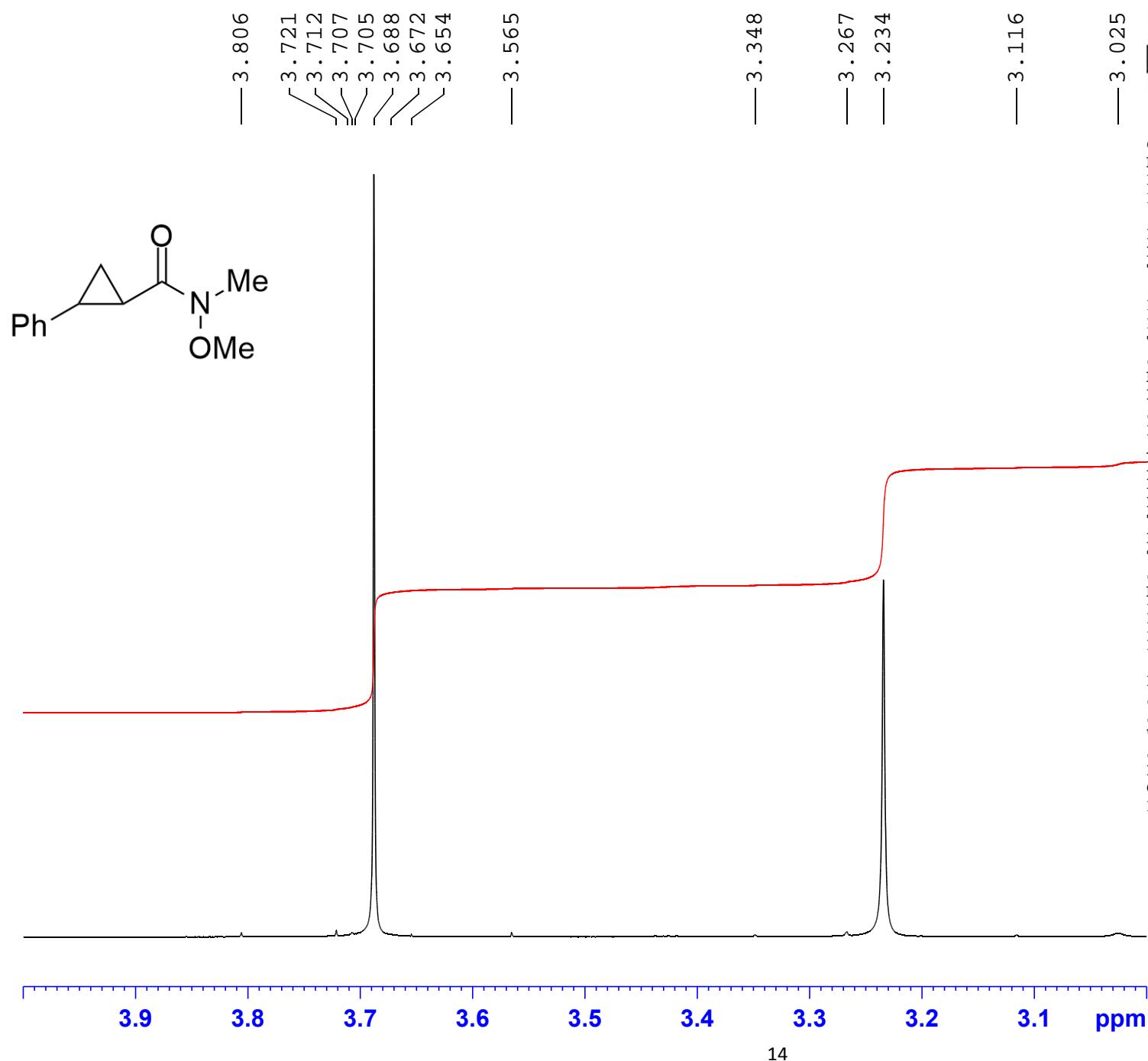
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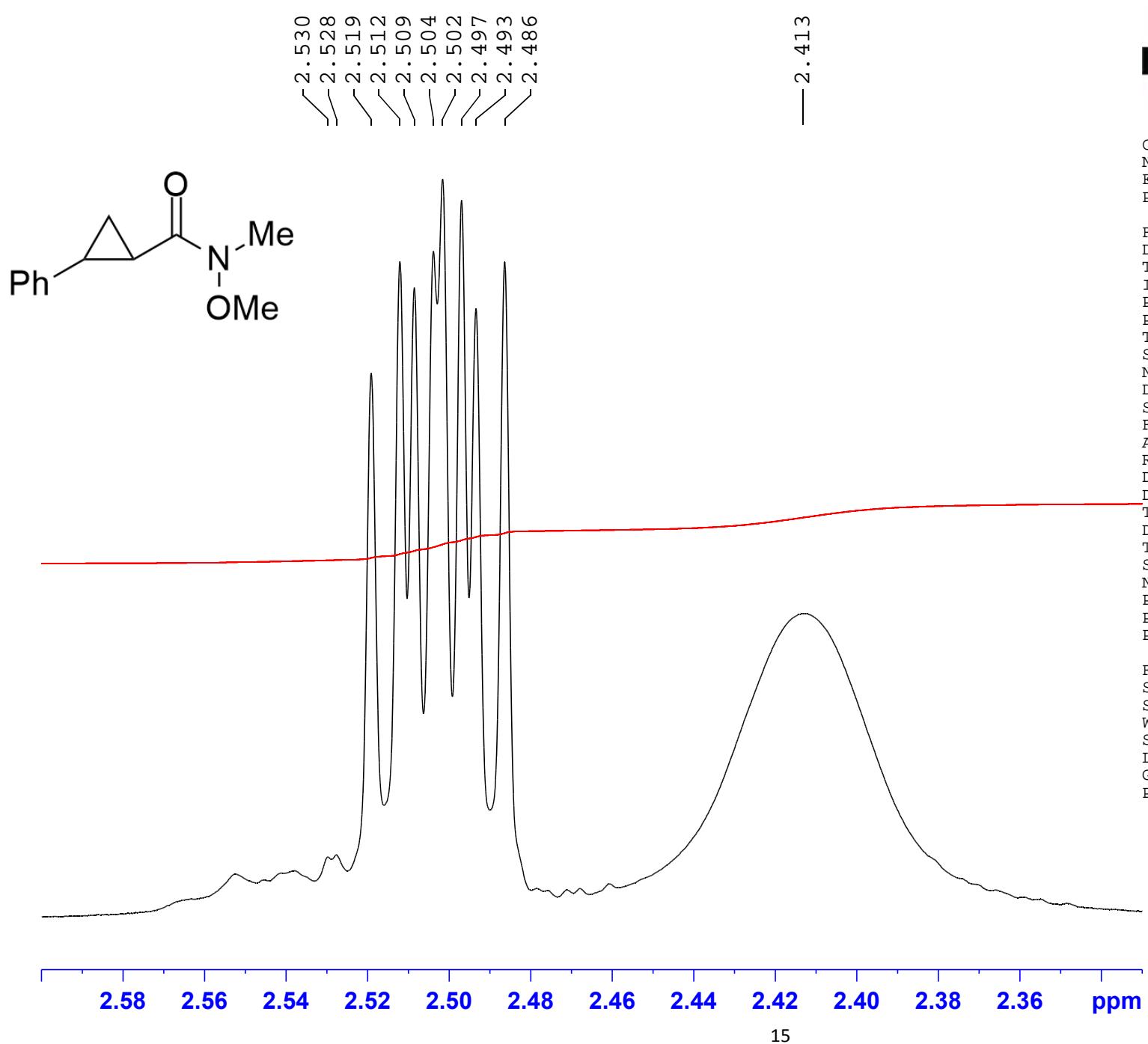
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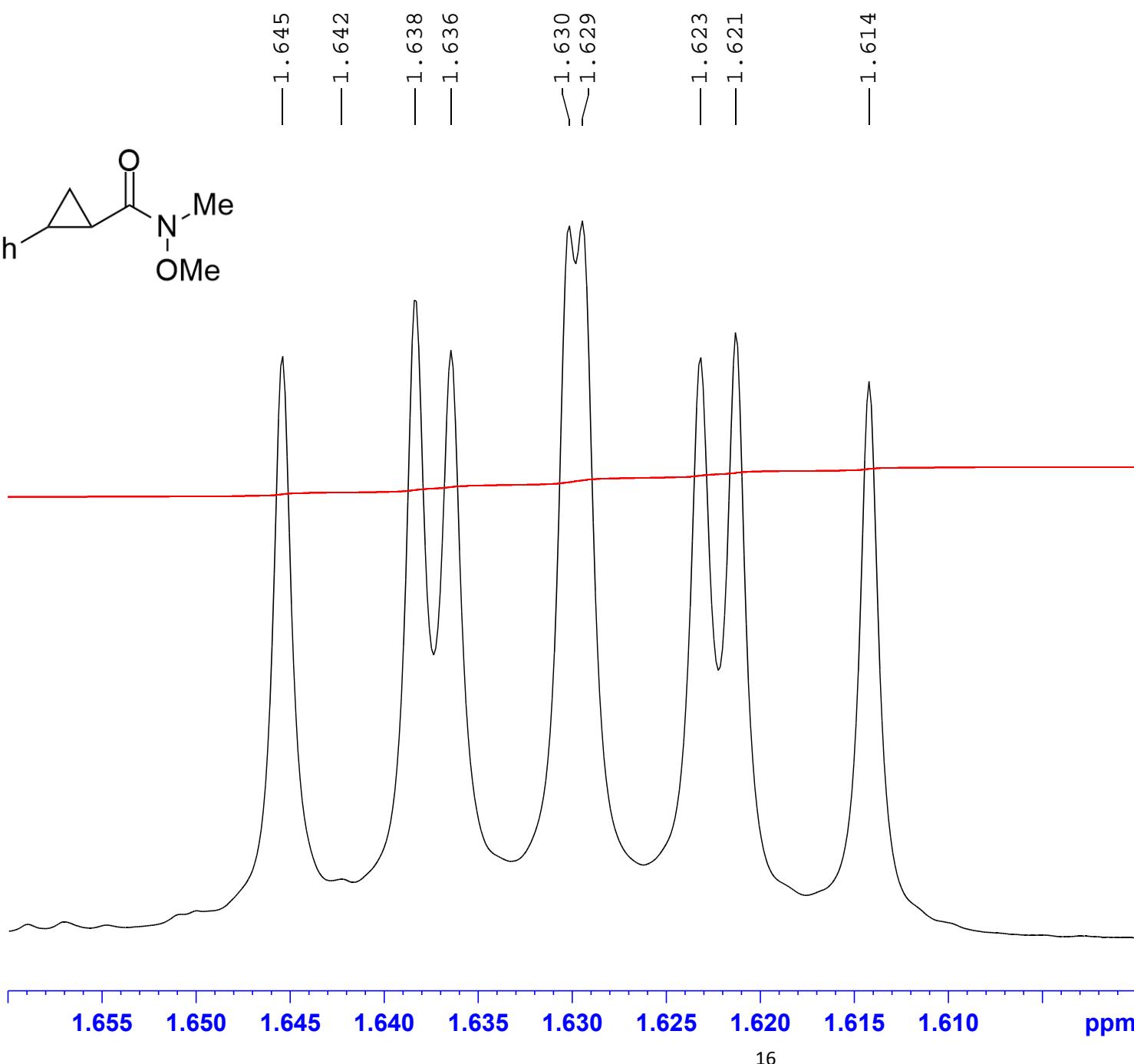
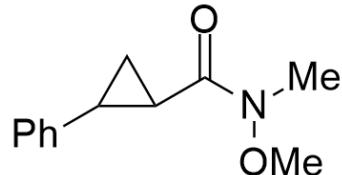
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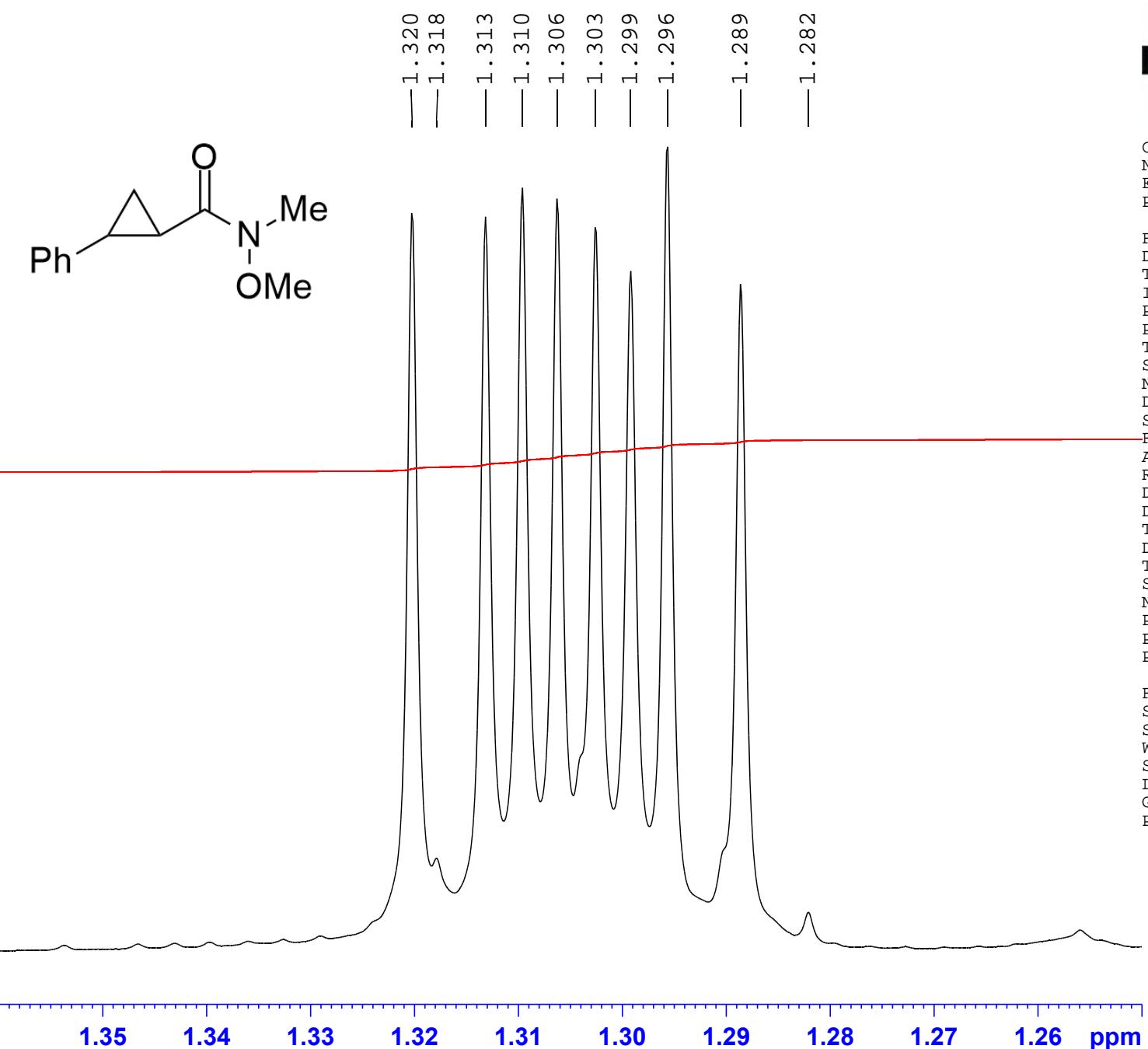
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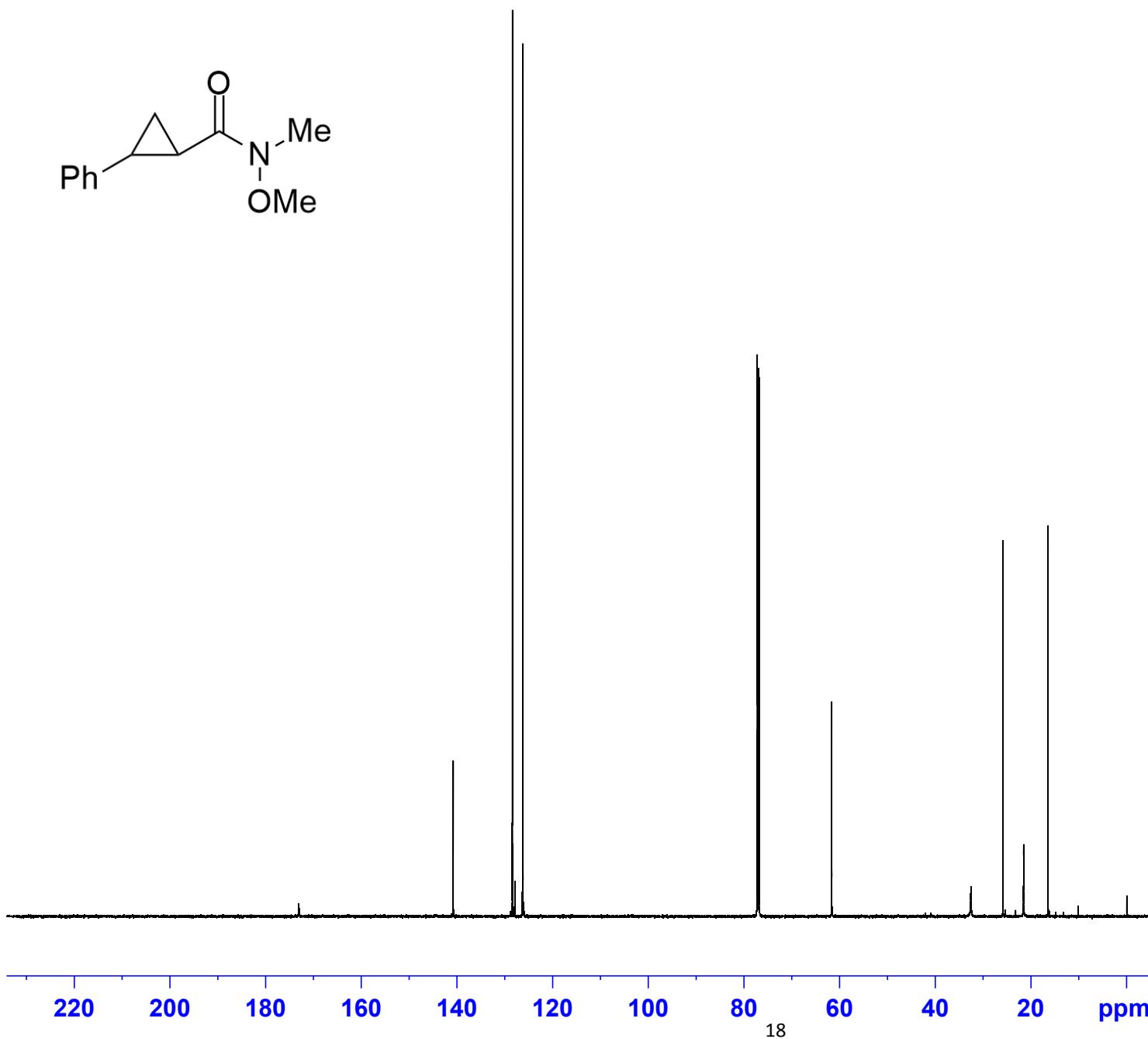
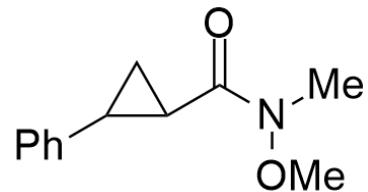
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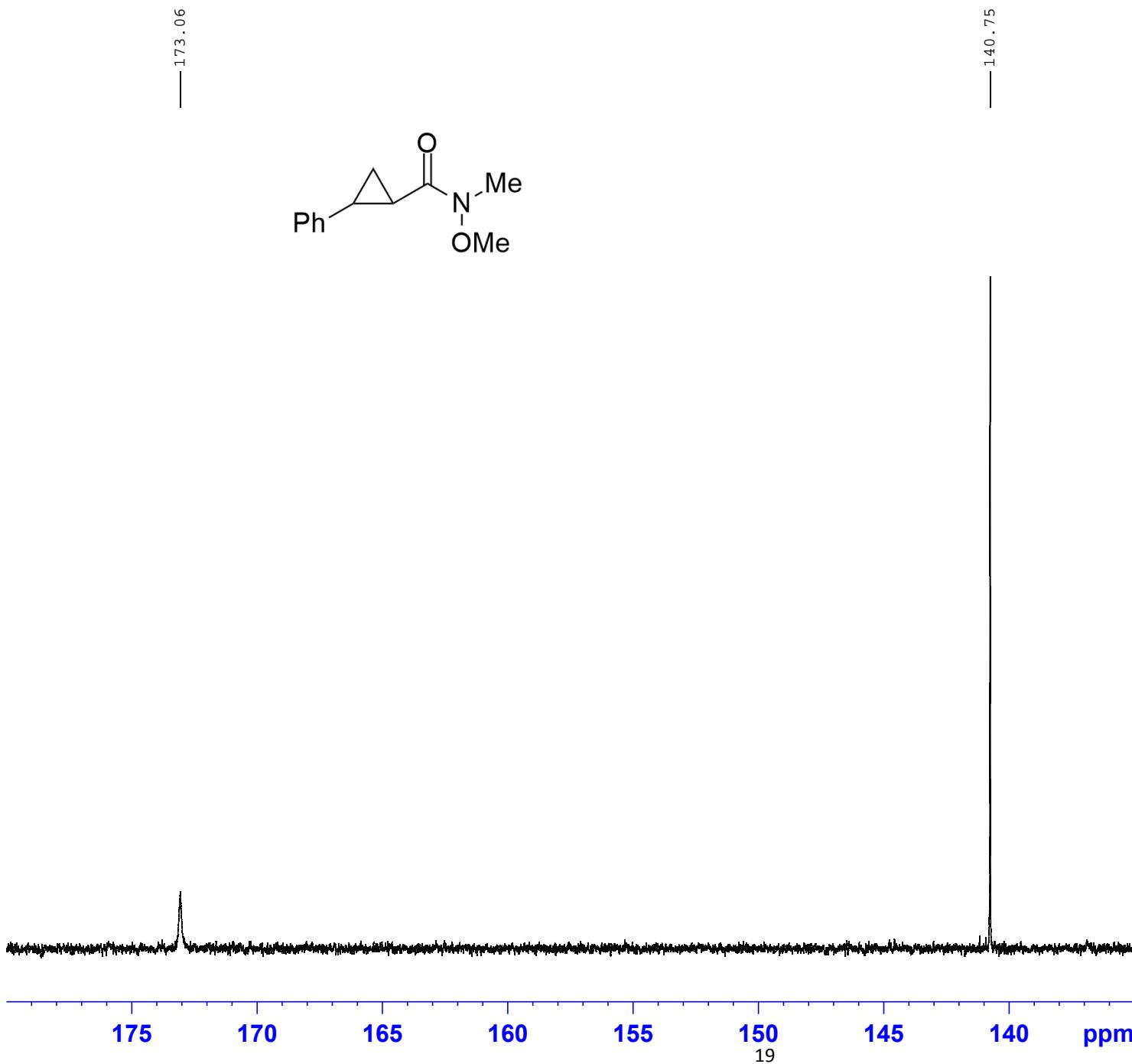
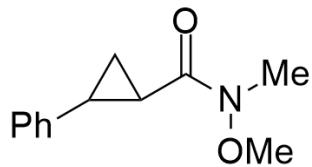
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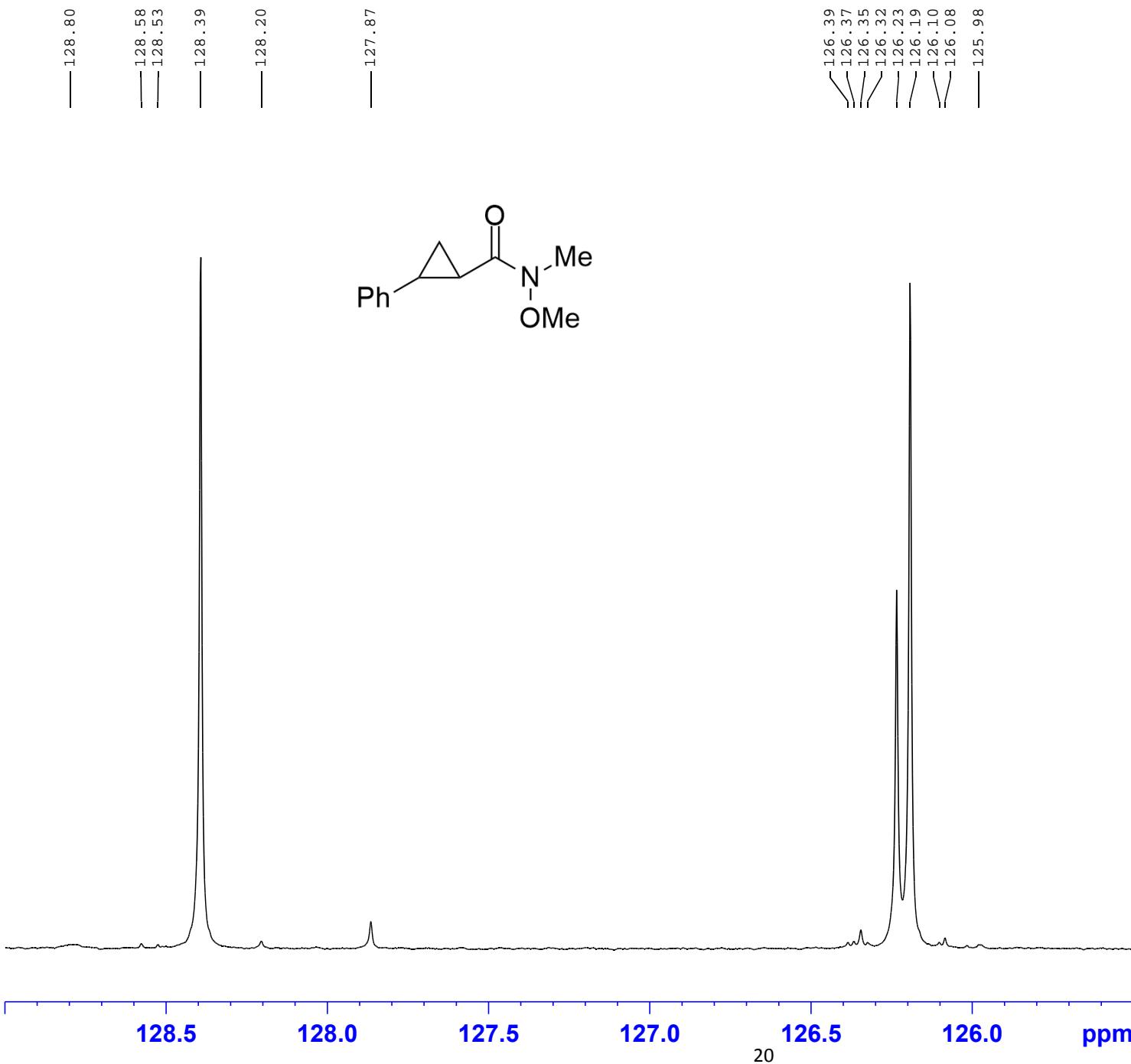


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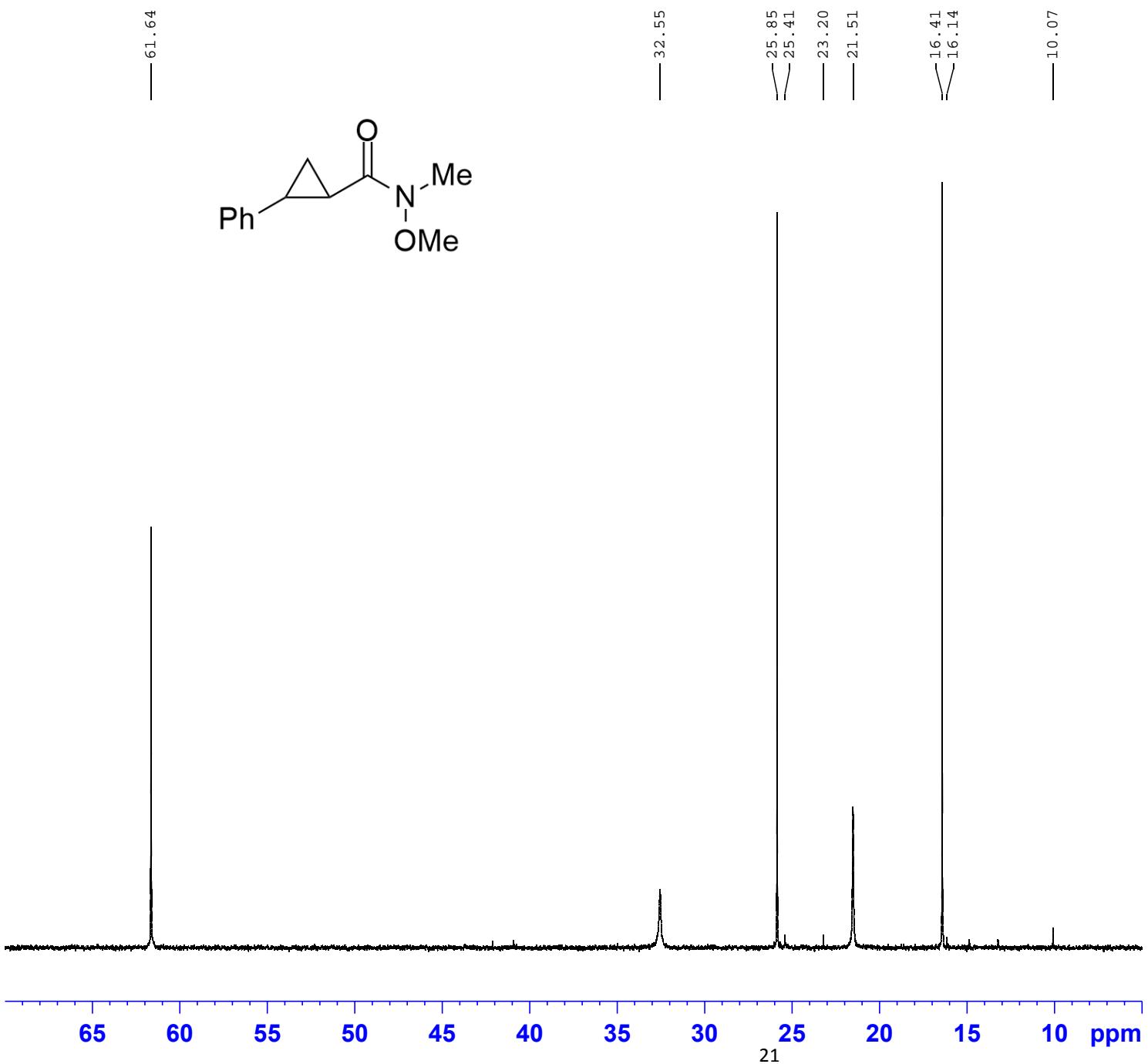




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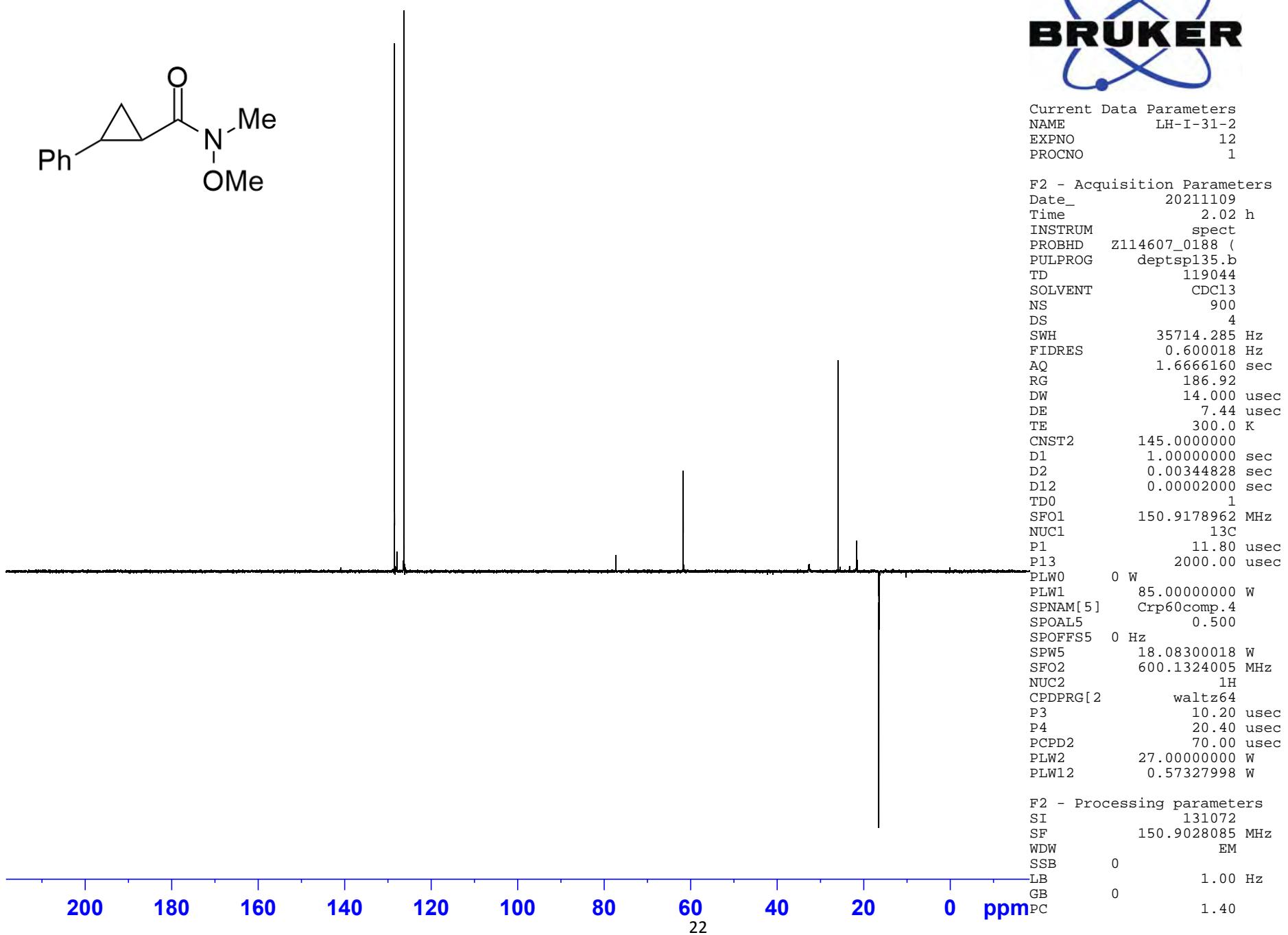
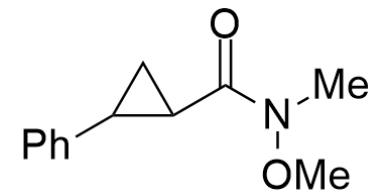
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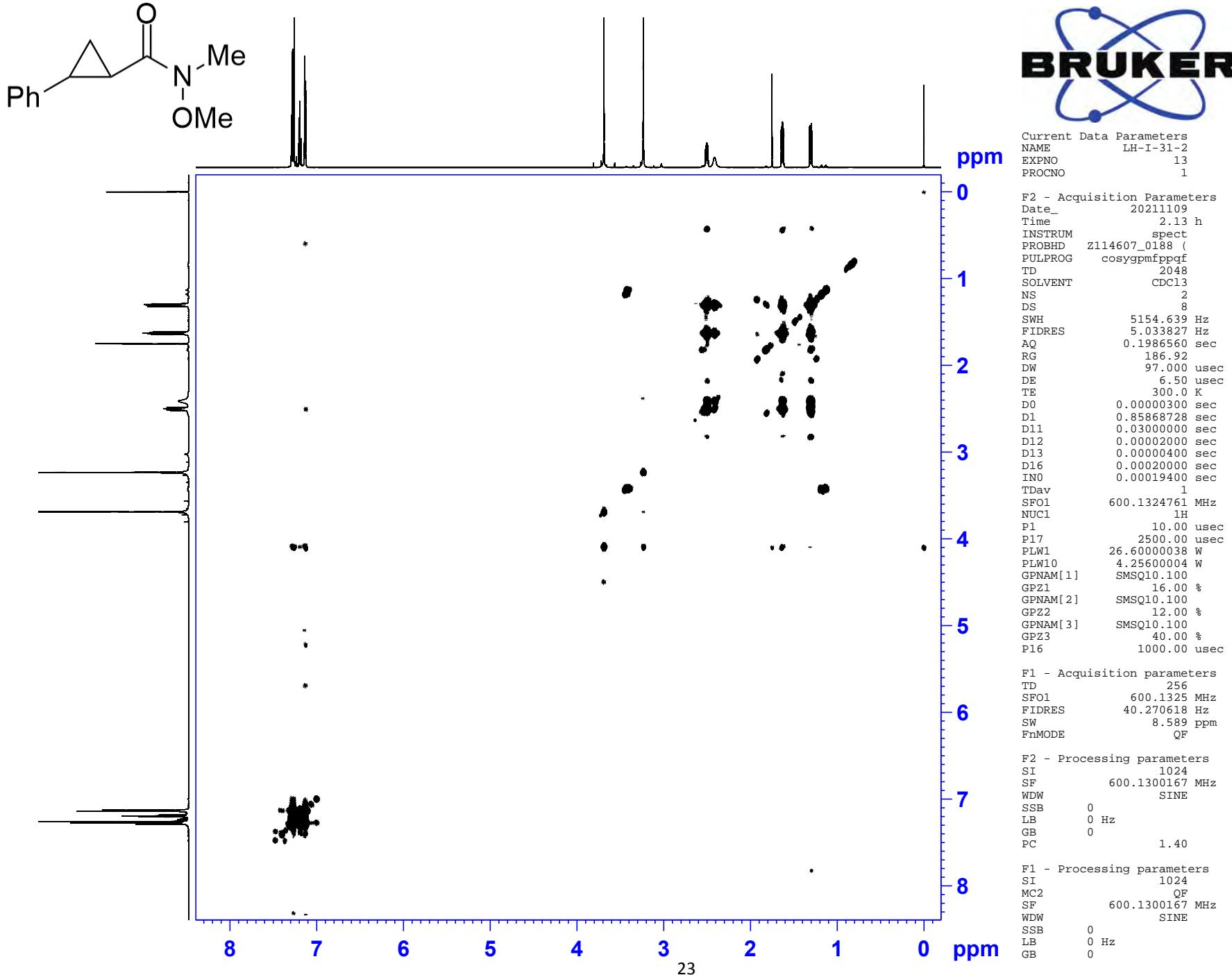


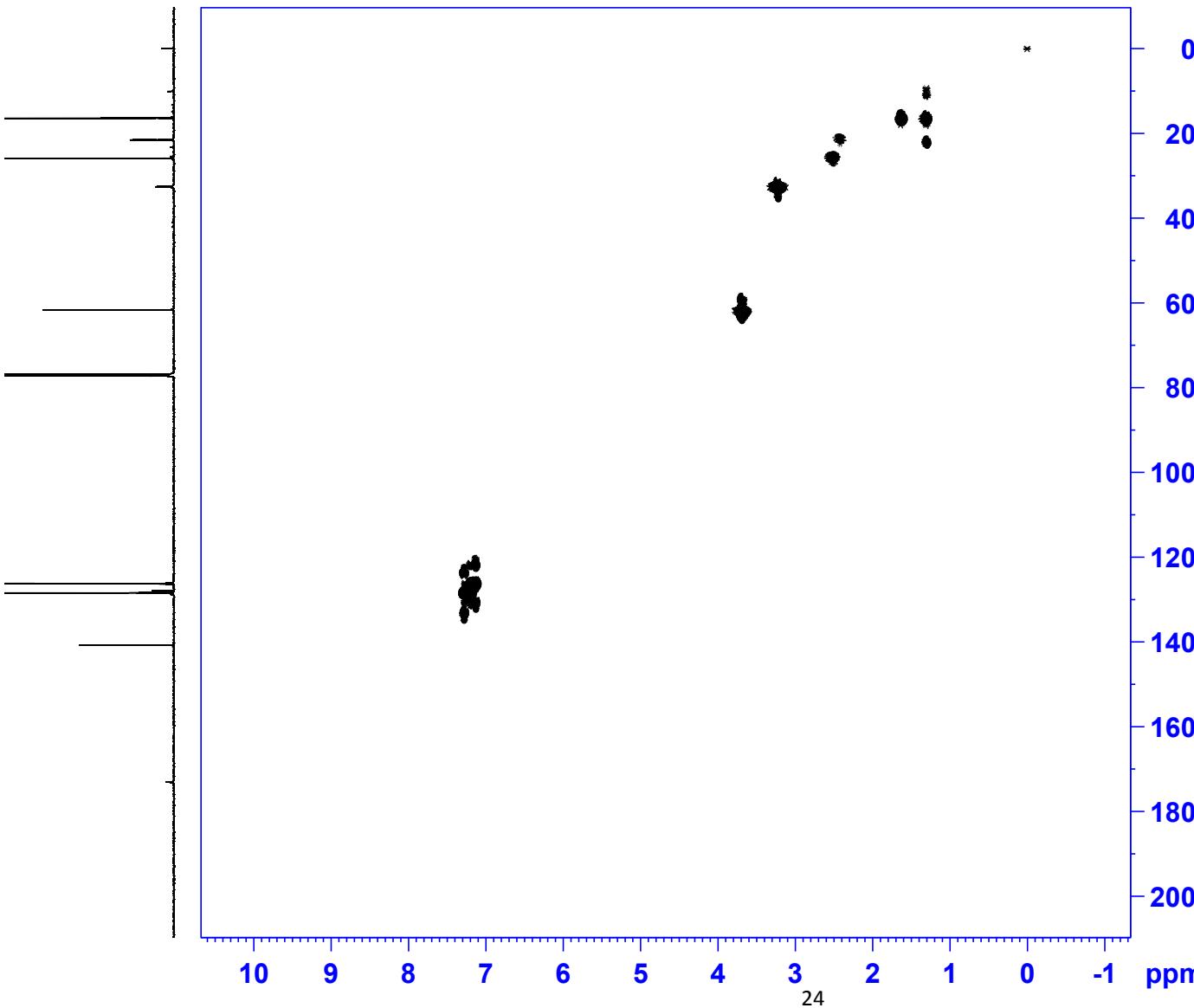
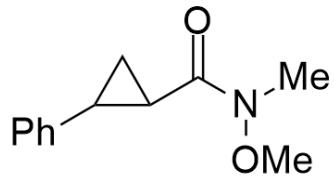
Current Data Parameters
 NAME LH-I-31-2
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211109
 Time 1.21 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028184 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40







Current Data Parameters
 NAME LH-I-31-2
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211109
 Time 2.22 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG hsqcetgpsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 7211.539 Hz
 FIDRES 14.085036 Hz
 AQ 0.0709973 sec
 RG 186.92
 DW 69.333 usec
 DE 6.50 usec
 TE 300.3 K
 CNST2 145.0000000
 D0 0.00000300 sec
 D1 0.80000001 sec
 D4 0.00172414 sec
 D11 0.03000000 sec
 D16 0.00020000 sec
 D21 0.00360000 sec
 IN0 0.00001510 sec
 TDav 1
 ZGOPTNS
 SF01 600.1328223 MHz
 NUC1 1H
 P1 10.00 usec
 P2 20.00 usec
 PLW1 26.60000038 W
 SF02 150.9178988 MHz
 NUC2 13C
 CDPDPRG[2] garp4
 P3 11.80 usec
 P14 500.00 usec
 P31 1730.00 usec
 PCPD2 60.00 usec
 PLW0 0 W
 PLW2 85.00000000 W
 PLW12 3.28760004 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 18.08300018 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 5.22629976 W
 GPNAM[1] SMSQ10,100
 GPZ1 80.00 %
 GPNAM[2] SMSQ10,100
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 150.9179 MHz
 FIDRES 258.692047 Hz
 SW 219.408 ppm
 FnMODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 600.1300170 MHz
 WDW QSINE
 SSB 2
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 echo-antiecho
 SF 150.9028011 MHz
 WDW QSINE
 SSB 2
 LB 0 Hz
 GB 0

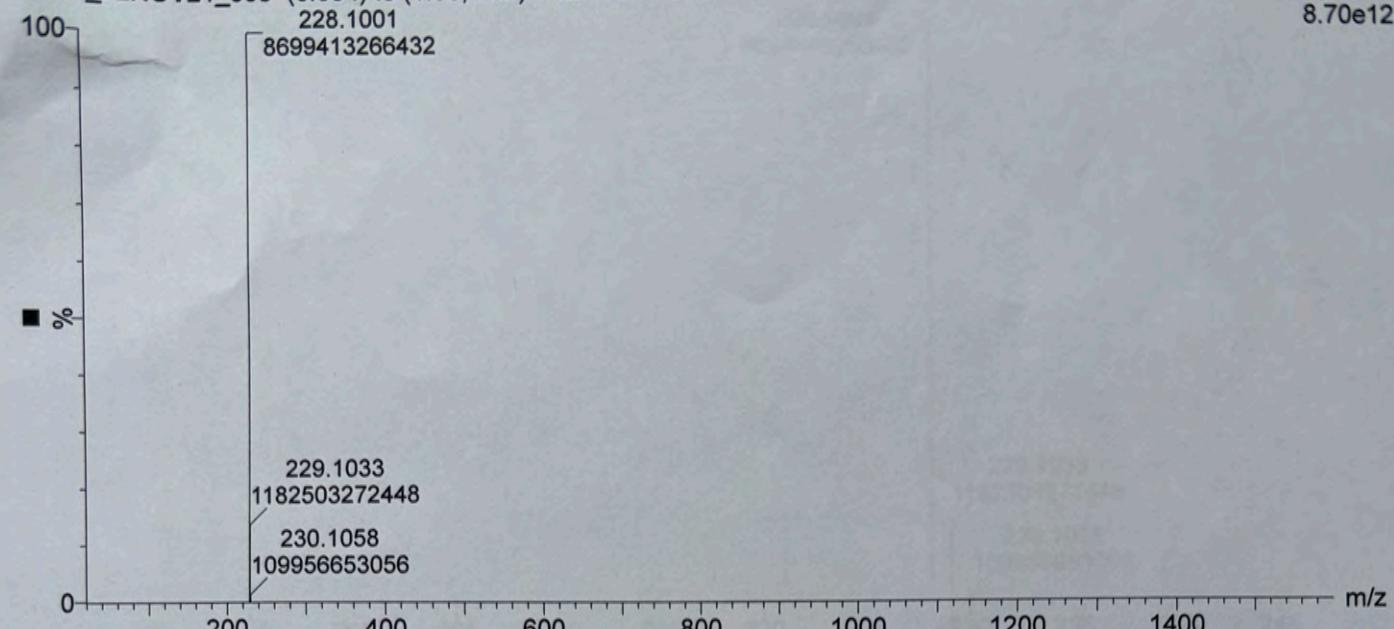
LH-I-31

ASEP_22NOV21_008 (0.054) ls (1.00,1.00) C12H15NO2Na

228.1001
8699413266432

1: TOF MS ES+

8.70e12

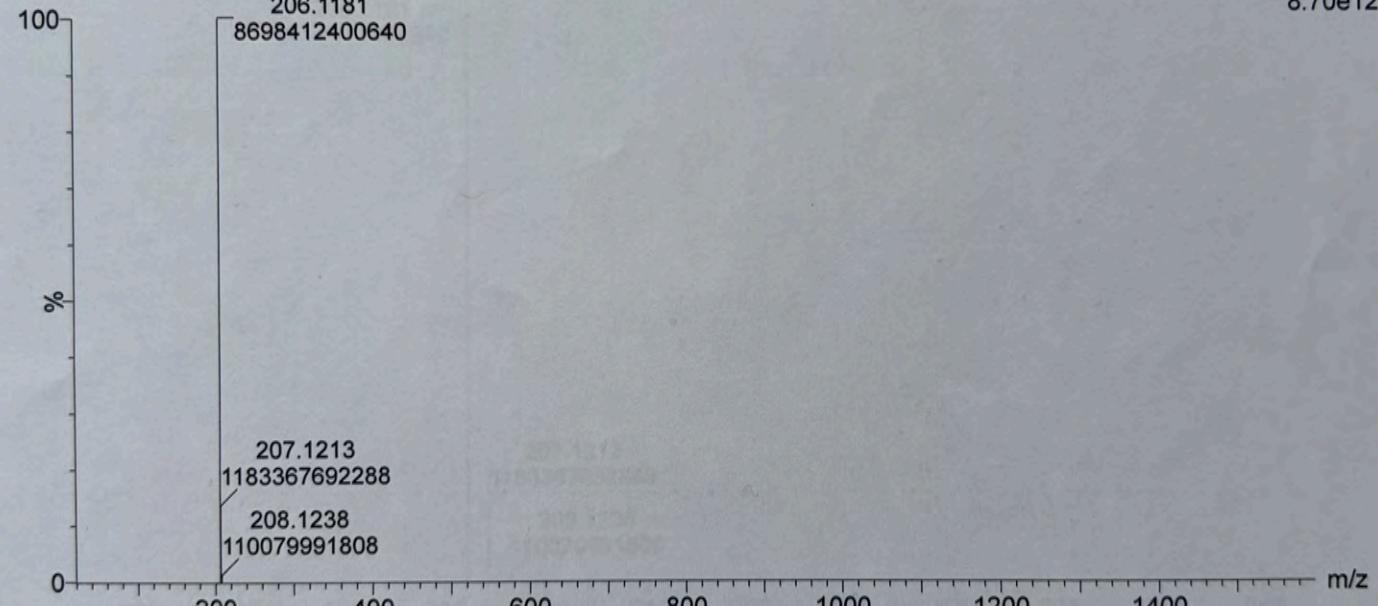


ASEP_22NOV21_008 (0.054) ls (1.00,1.00) C12H15NO2H

206.1181
8698412400640

1: TOF MS ES+

8.70e12

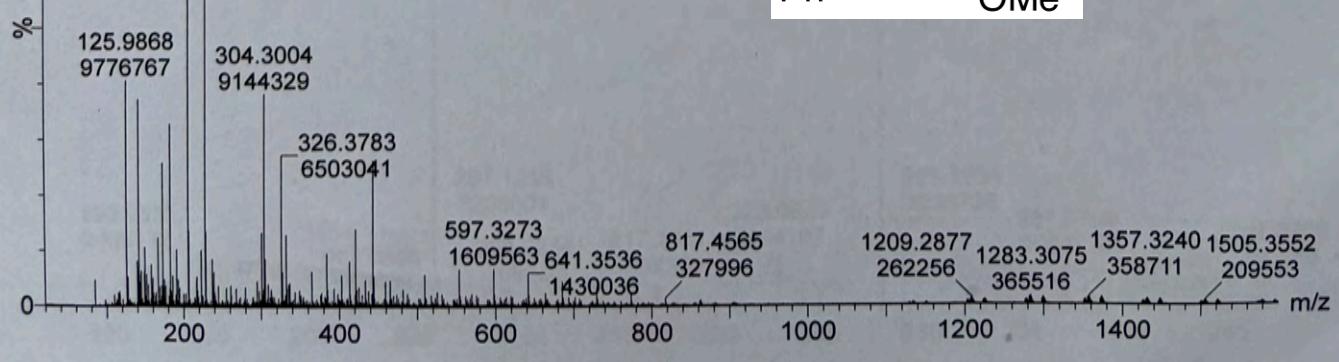
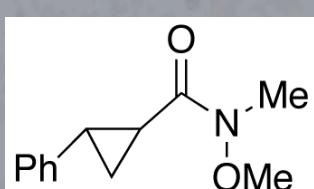


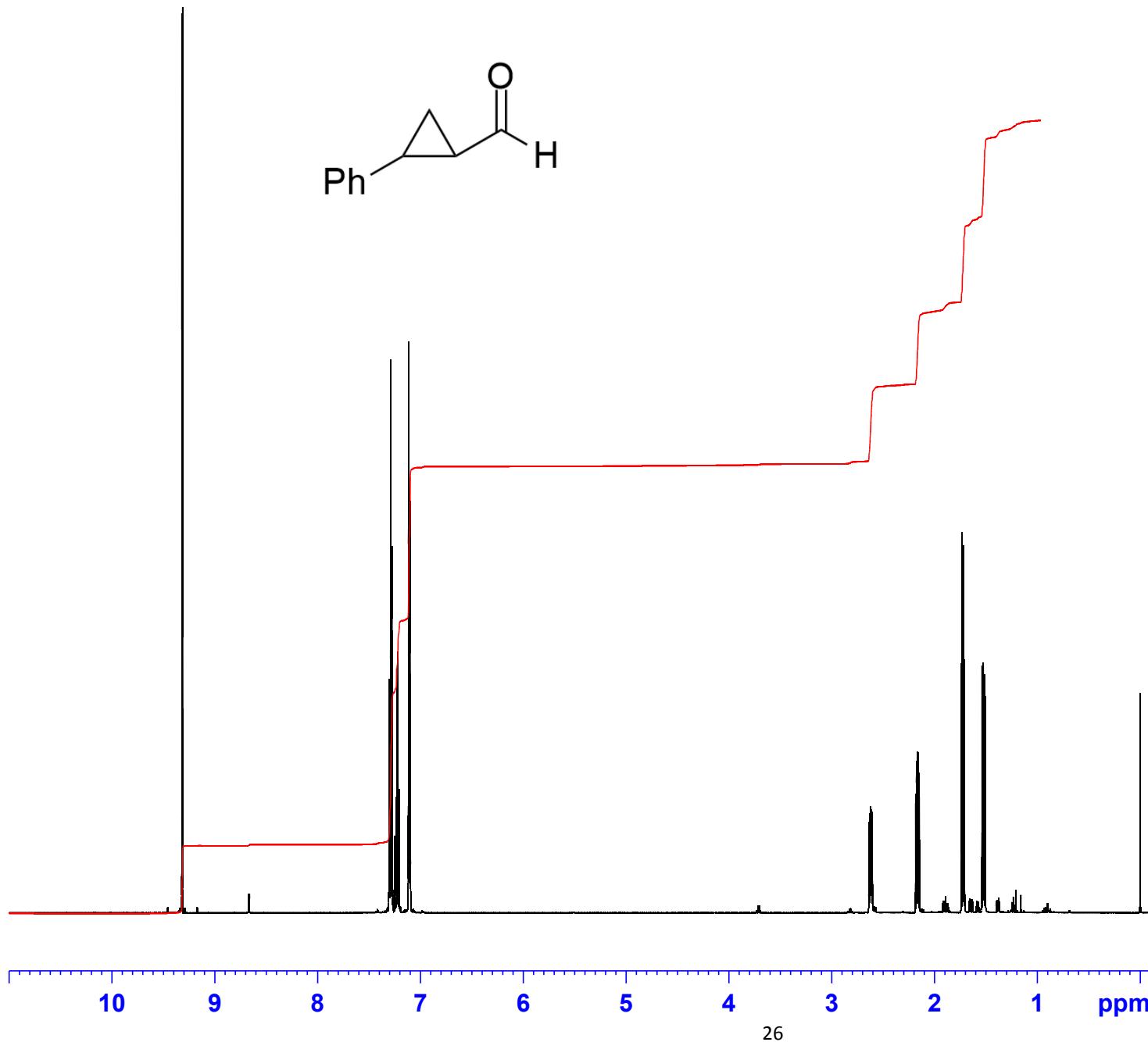
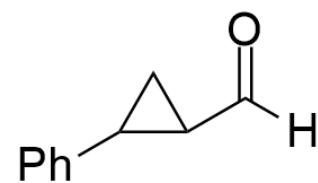
ASEP_22NOV21_008 21 (0.431) Cm (21:33)

228.1004
24138222

1: TOF MS ES+

2.41e7

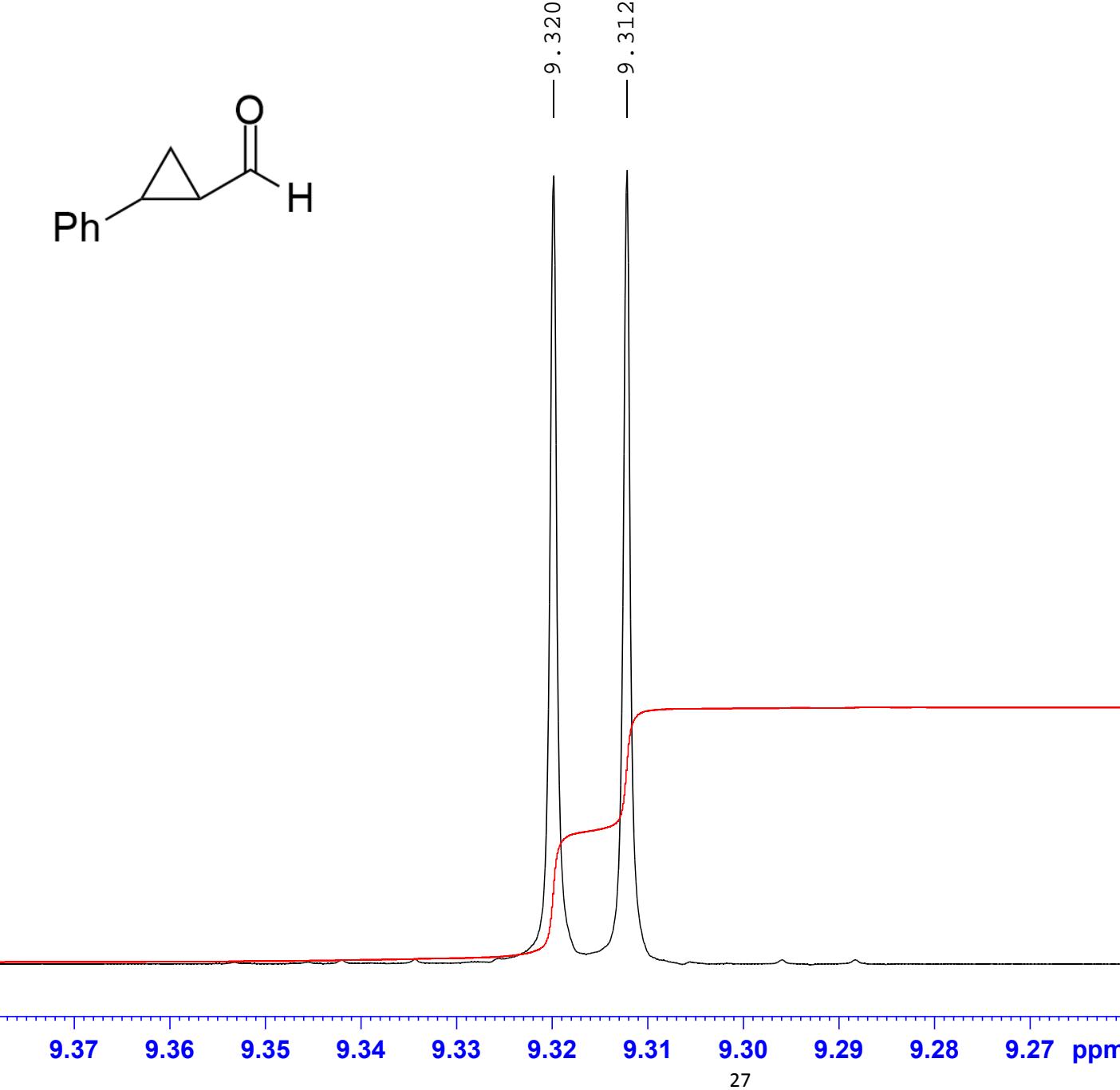




Current Data Parameters
NAME LH-I-32
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211116
Time 8.00 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 49.63
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.1000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

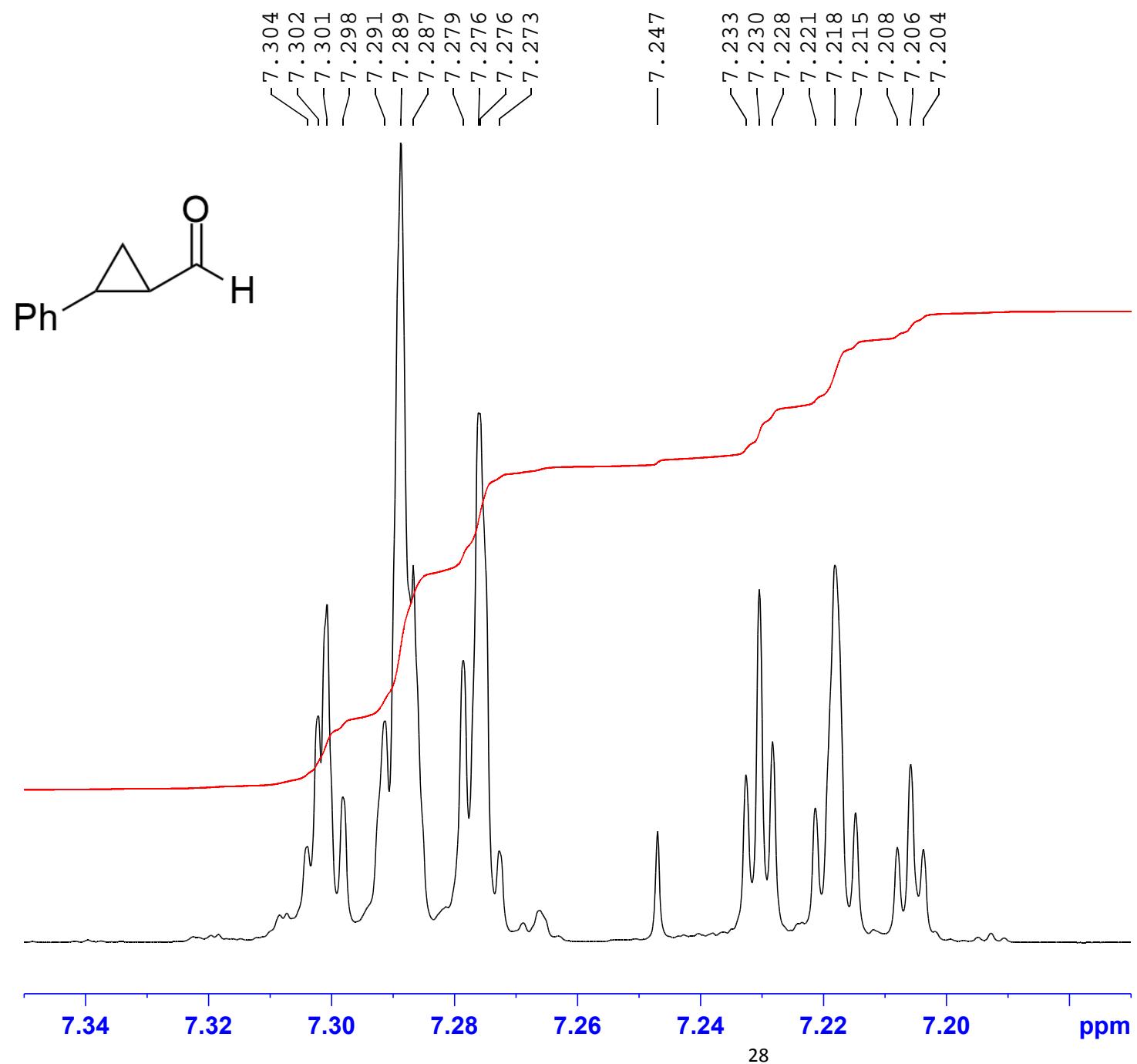
F2 - Processing parameters
SI 262144
SF 600.1300219 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

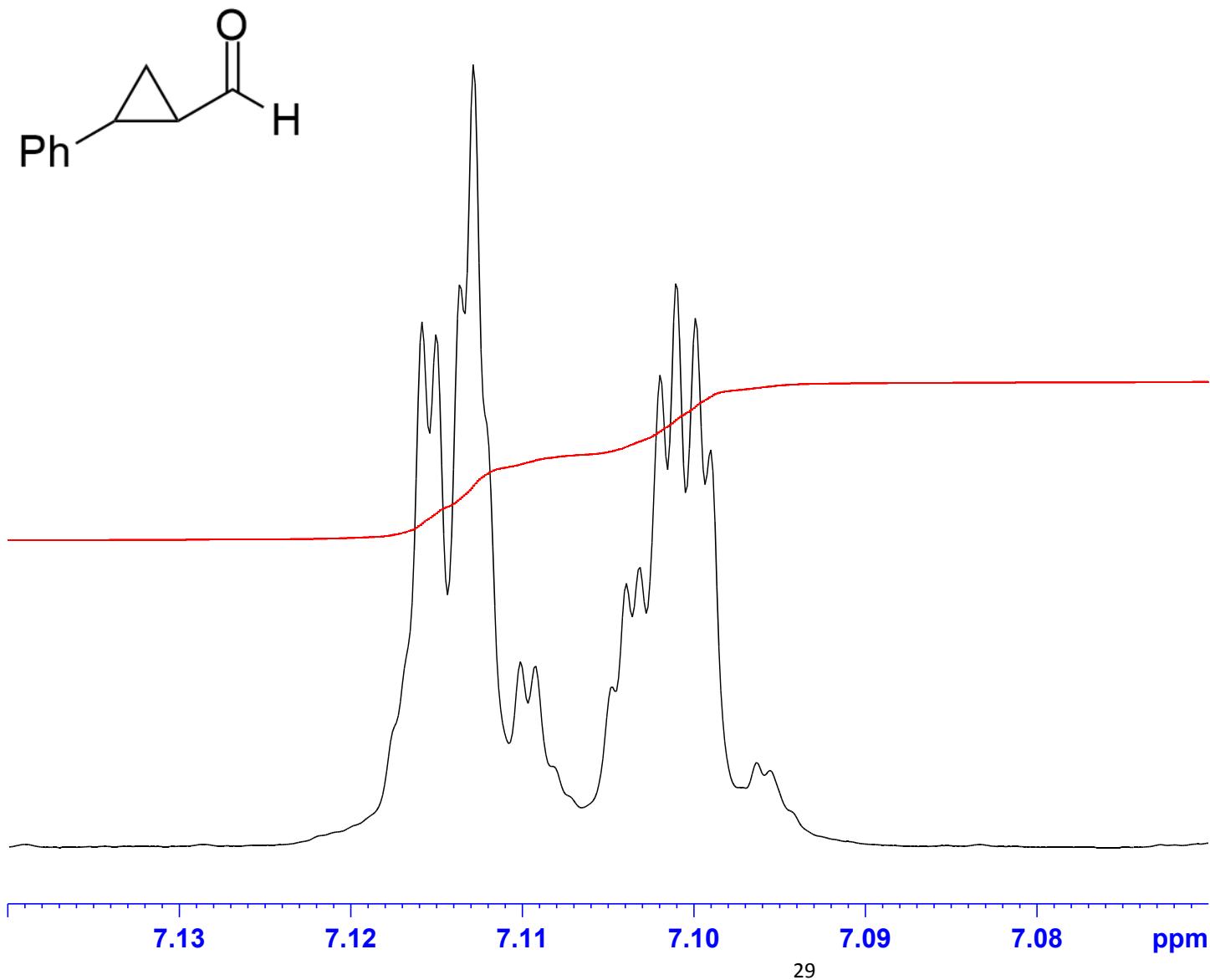
F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

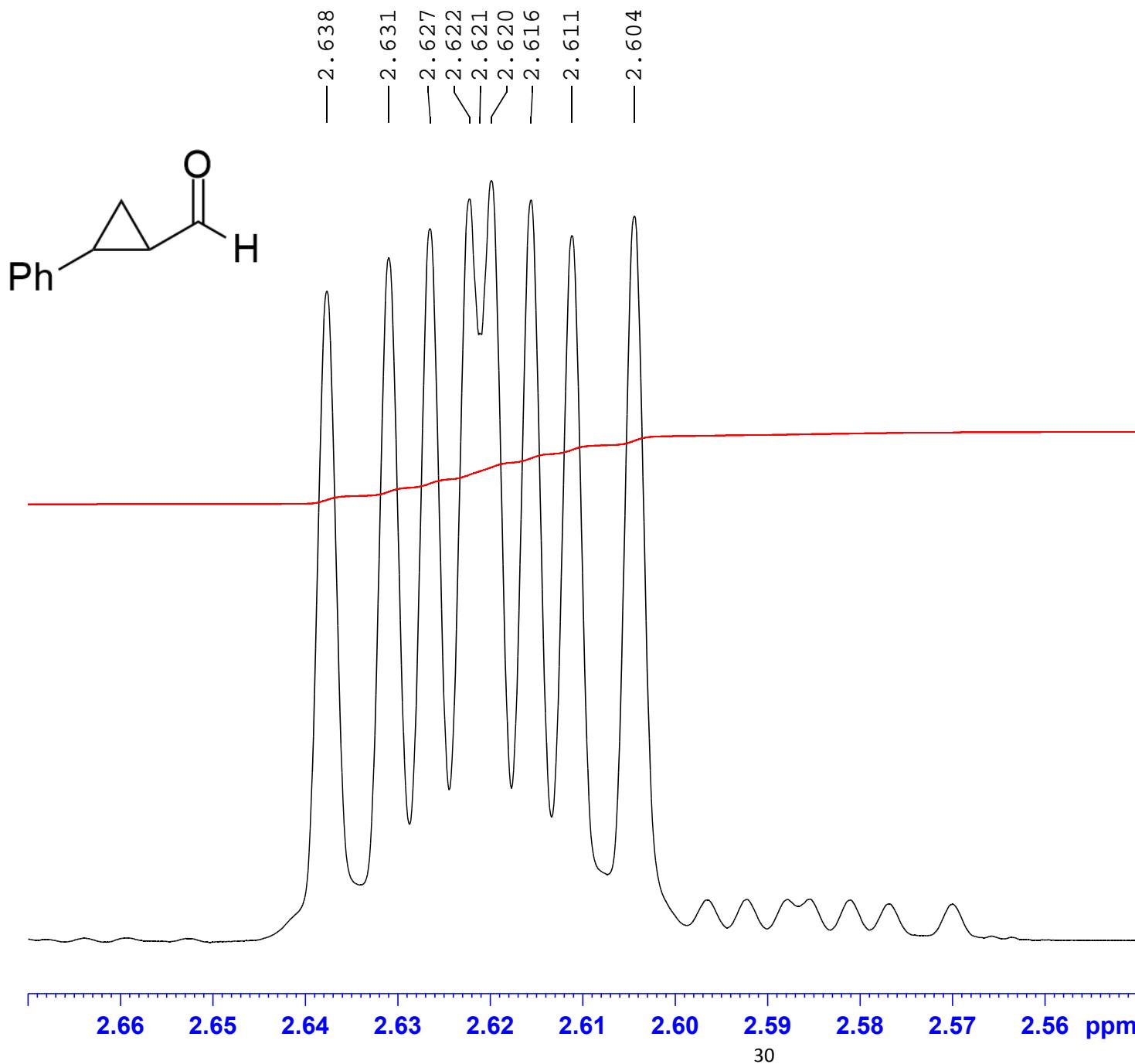
F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0.10 Hz
 PC 1.00



Current Data Parameters
NAME LH-I-32
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211116
Time 8.00 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 49.63
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.1000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

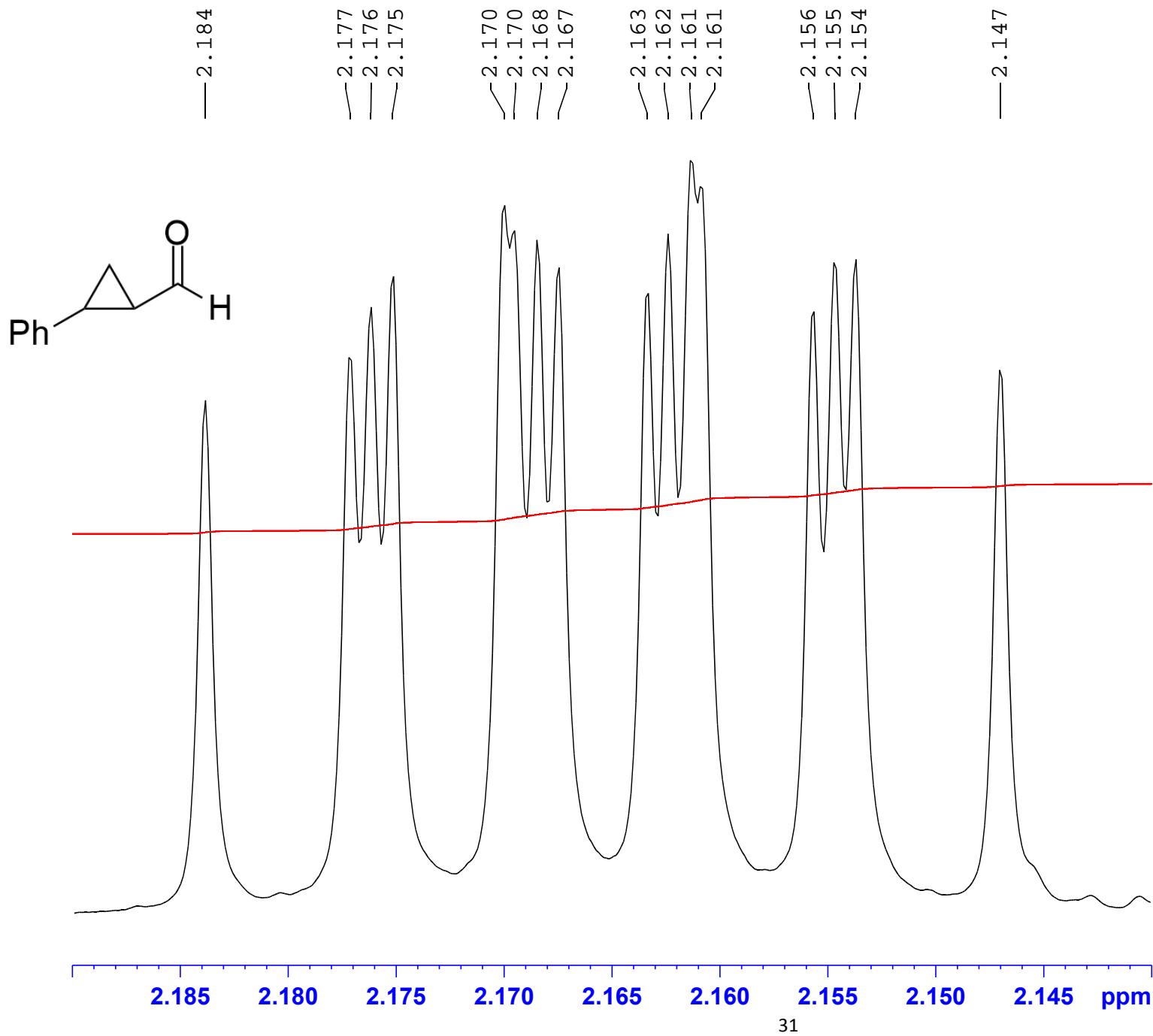
F2 - Processing parameters
SI 262144
SF 600.1300219 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

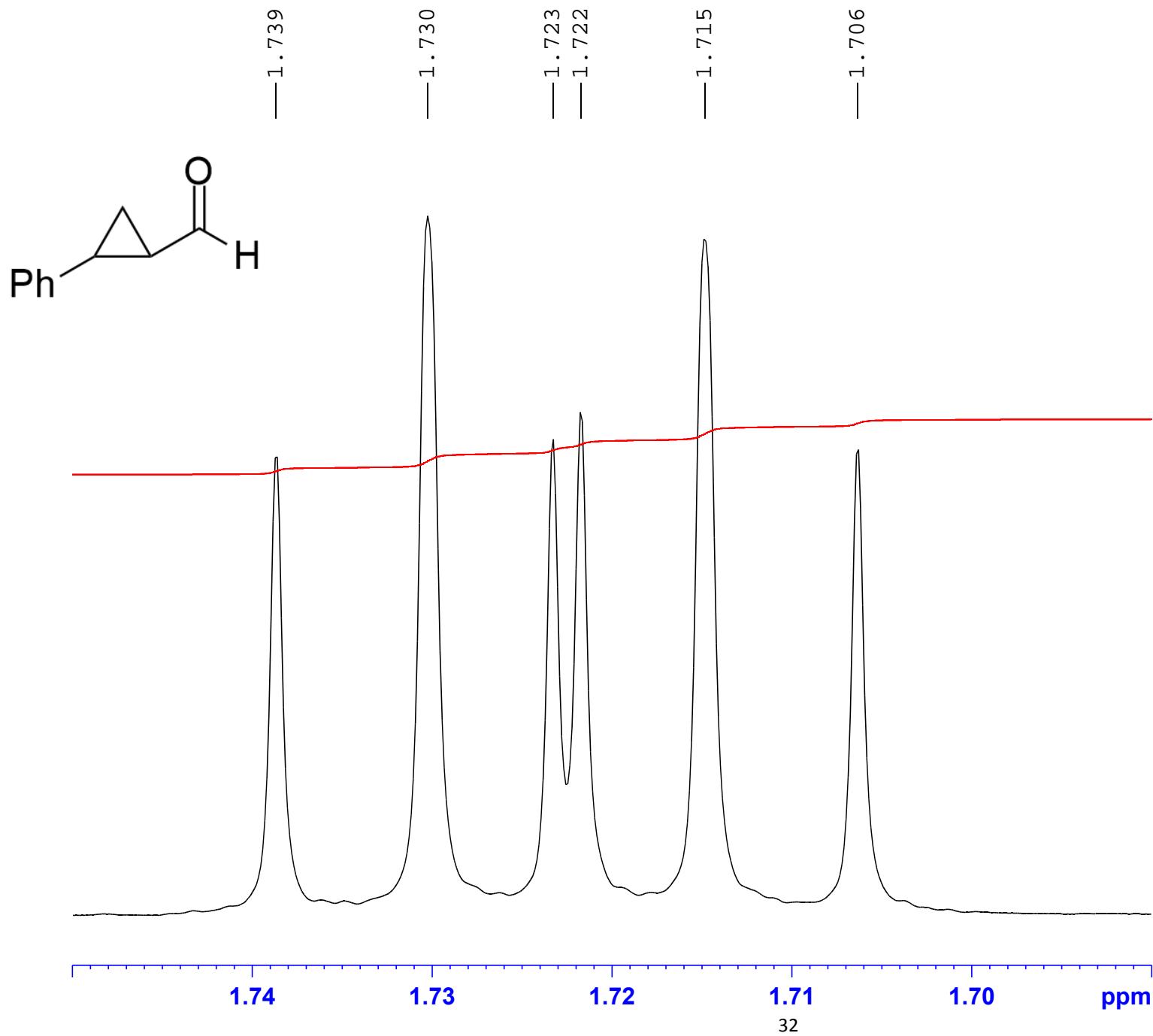
F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

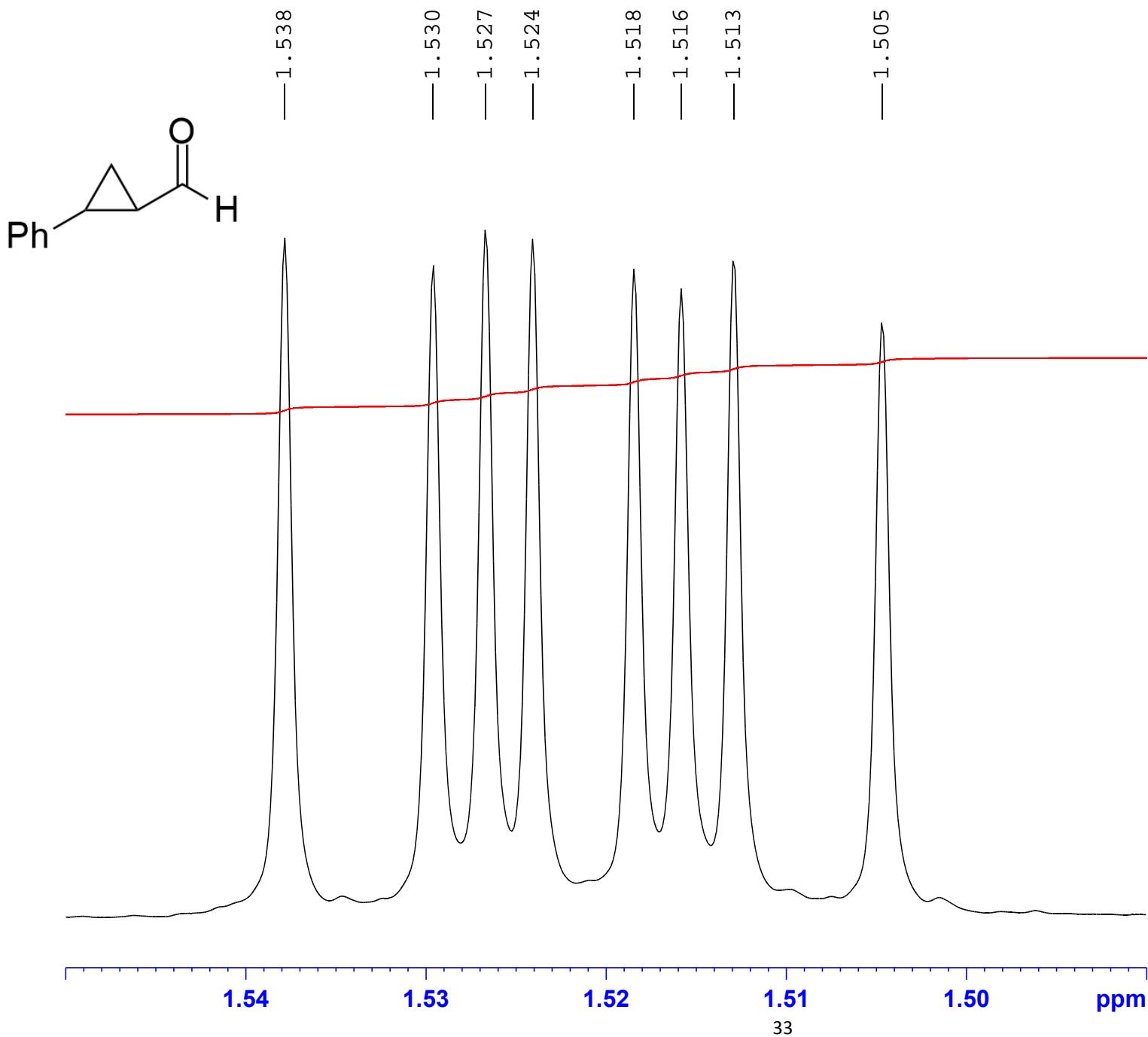
F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 0.10 Hz
 1.00

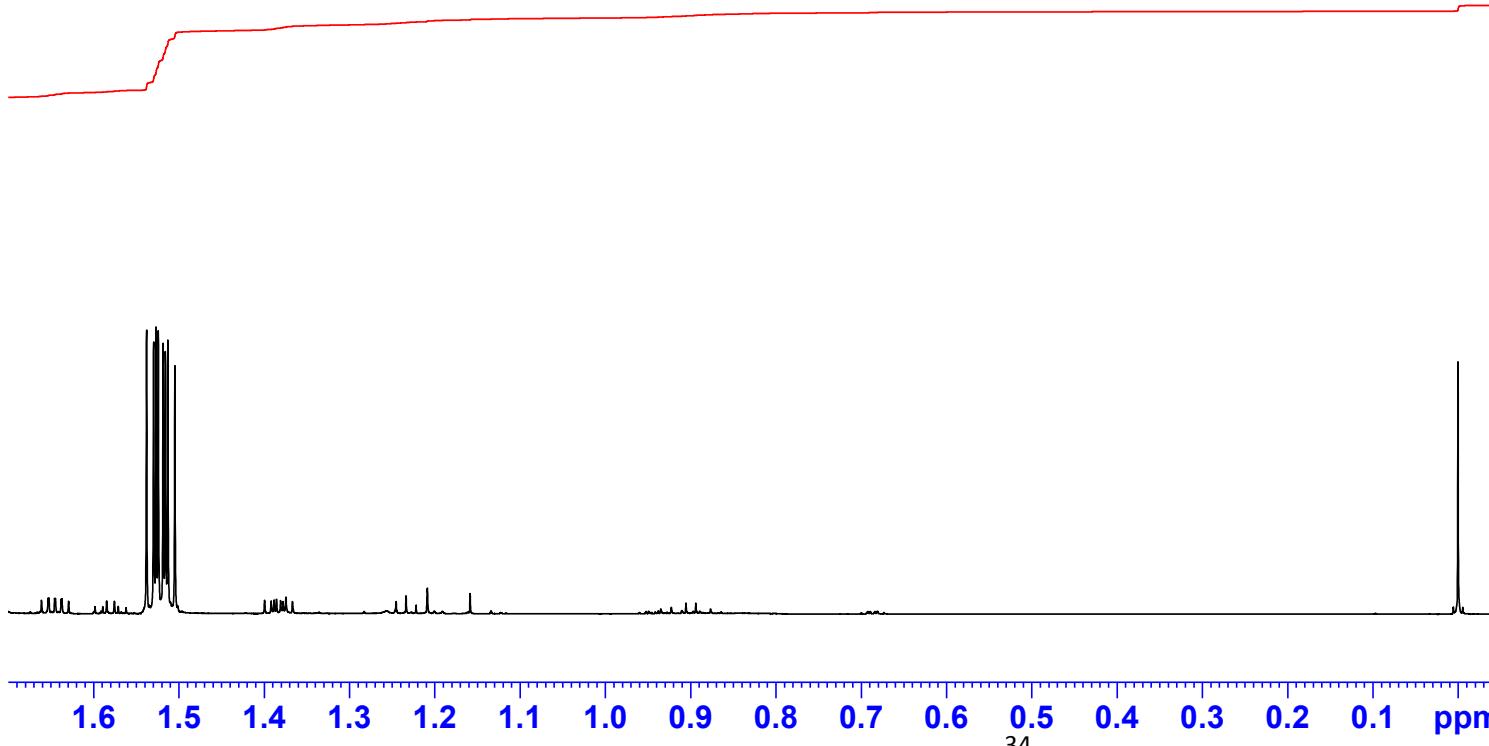
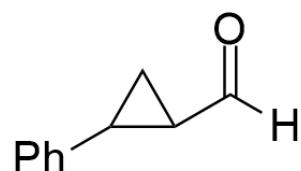


Current Data Parameters
 NAME LH-I-32
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 8.00 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300219 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

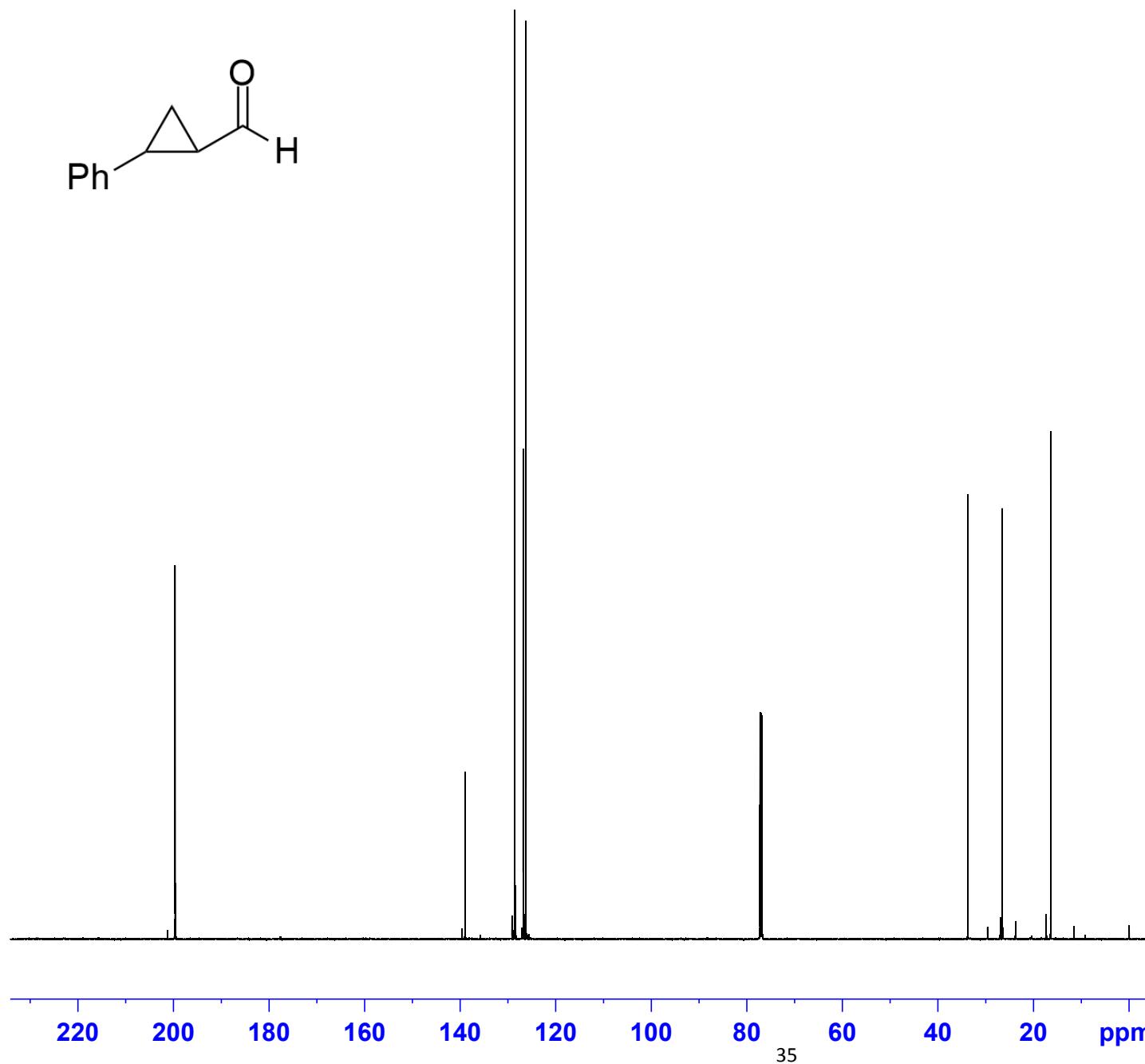
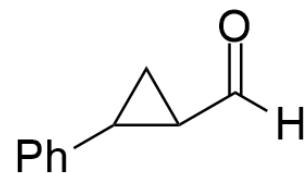
1.538
1.530
1.527
1.524
1.518
1.516
1.513
1.505



Current Data Parameters
NAME LH-I-32
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211116
Time 8.00 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 49.63
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

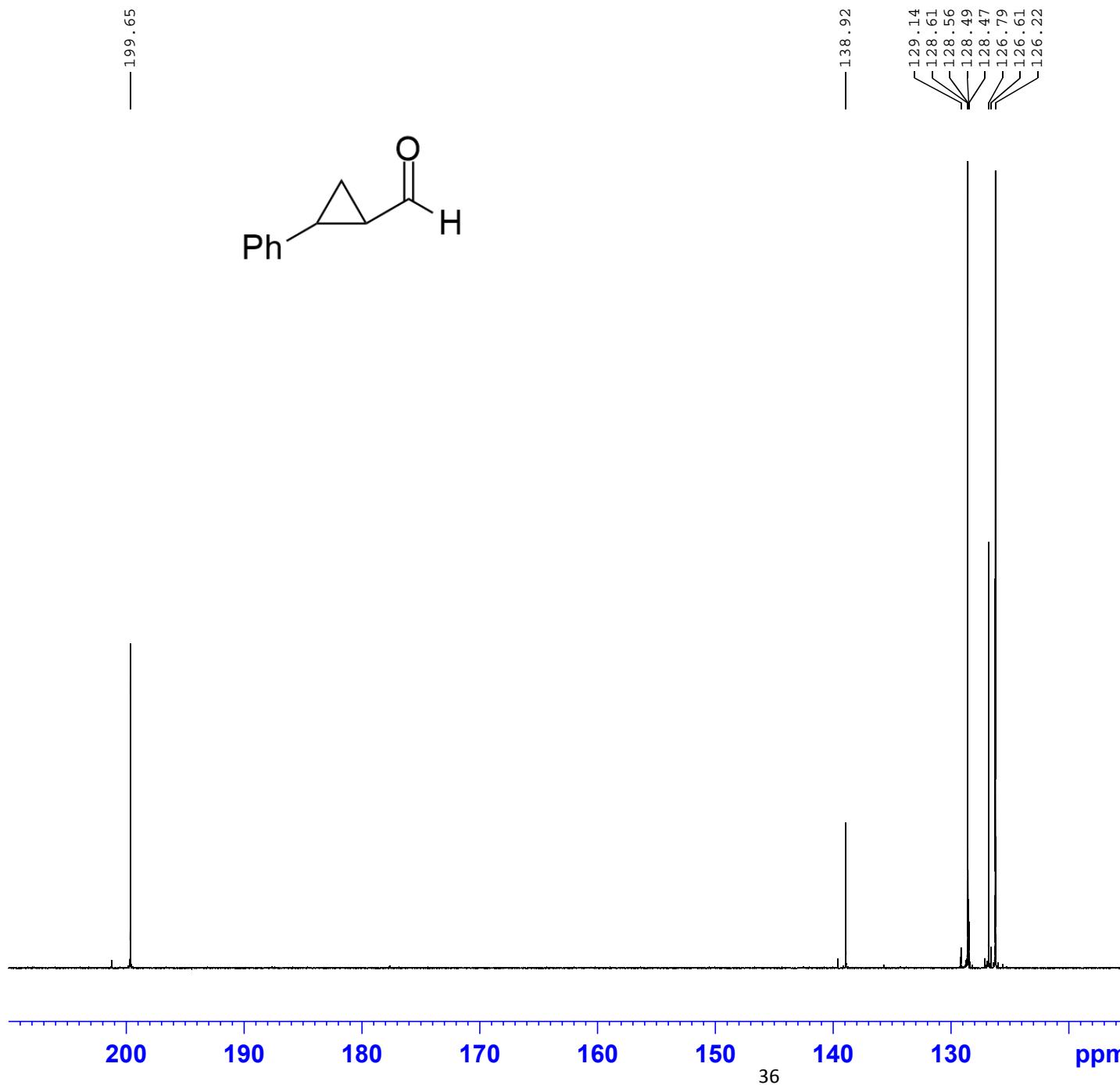
F2 - Processing parameters
SI 262144
SF 600.1300219 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-32
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 9.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2300
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028185 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters

NAME LH-I-32

EXPNO 11

PROCNO 1

F2 - Acquisition Parameters

Date_ 20211116

Time 9.43 h

INSTRUM spect

PROBHD Z114607_0188 (

PULPROG zpgpg30

TD 119044

SOLVENT CDCl3

NS 2300

DS 4

SWH 37500.000 Hz

FIDRES 0.630019 Hz

AQ 1.5872533 sec

RG 186.92

DW 13.333 usec

DE 6.53 usec

TE 300.0 K

D1 1.00000000 sec

D11 0.03000000 sec

TD0 1

SFO1 150.9194058 MHz

NUC1 13C

P0 3.93 usec

P1 11.80 usec

PLW1 85.00000000 W

SFO2 600.1324005 MHz

NUC2 1H

CPDPRG[2 waltz64

PCPD2 70.00 usec

PLW2 27.00000000 W

PLW12 0.57327998 W

PLW13 0.28836000 W

F2 - Processing parameters

SI 131072

SF 150.9028185 MHz

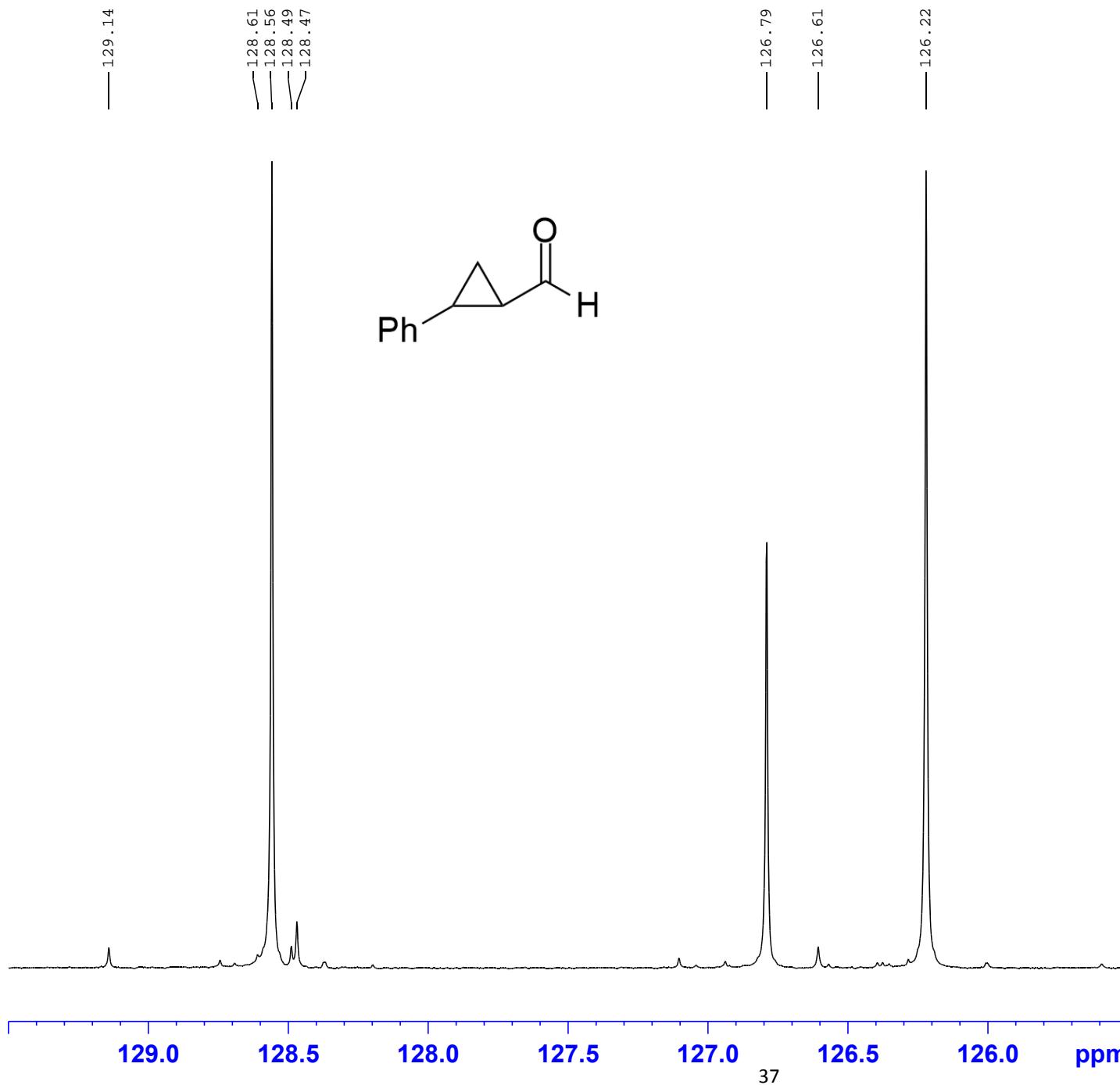
WDW EM

SSB 0

LB 1.00 Hz

GB 0

PC 1.40

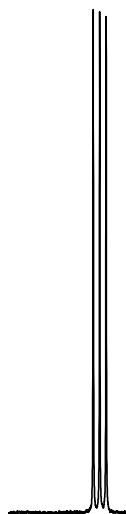
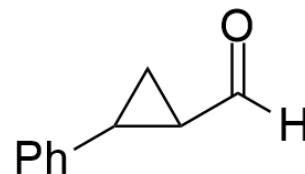


Current Data Parameters
 NAME LH-I-32
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 9.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2300
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028185 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

77.21
77.00
76.79



38

75 70 65 60 55 50 45 40 35 ppm

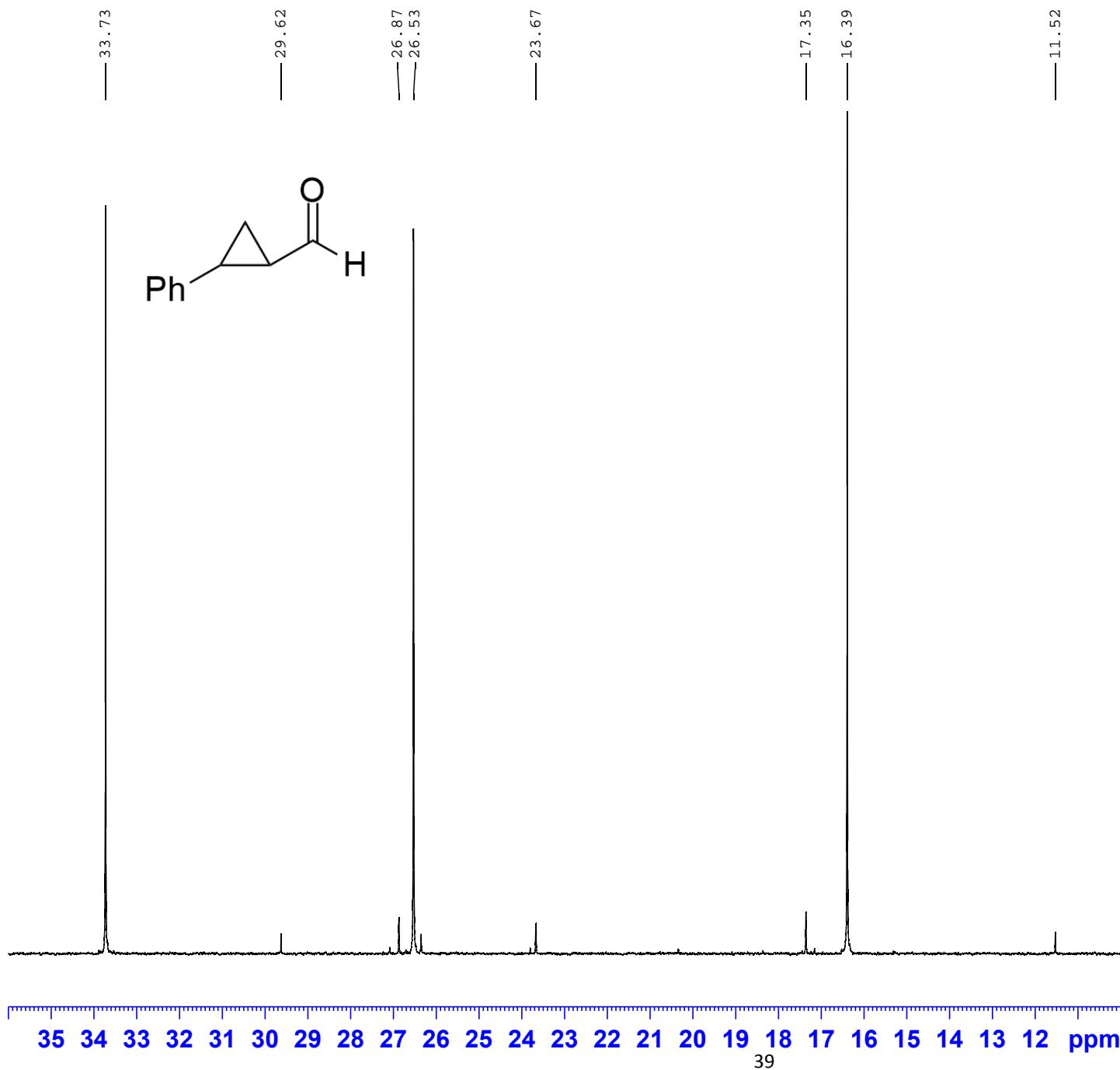
33.73



Current Data Parameters
NAME LH-I-32
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211116
Time_ 9.43 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 2300
DS 4
SWH 37500.000 Hz
FIDRES 0.630019 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 6.53 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 150.9194058 MHz
NUC1 ¹³C
P0 3.93 usec
P1 11.80 usec
PLW1 85.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W
PLW13 0.28836000 W

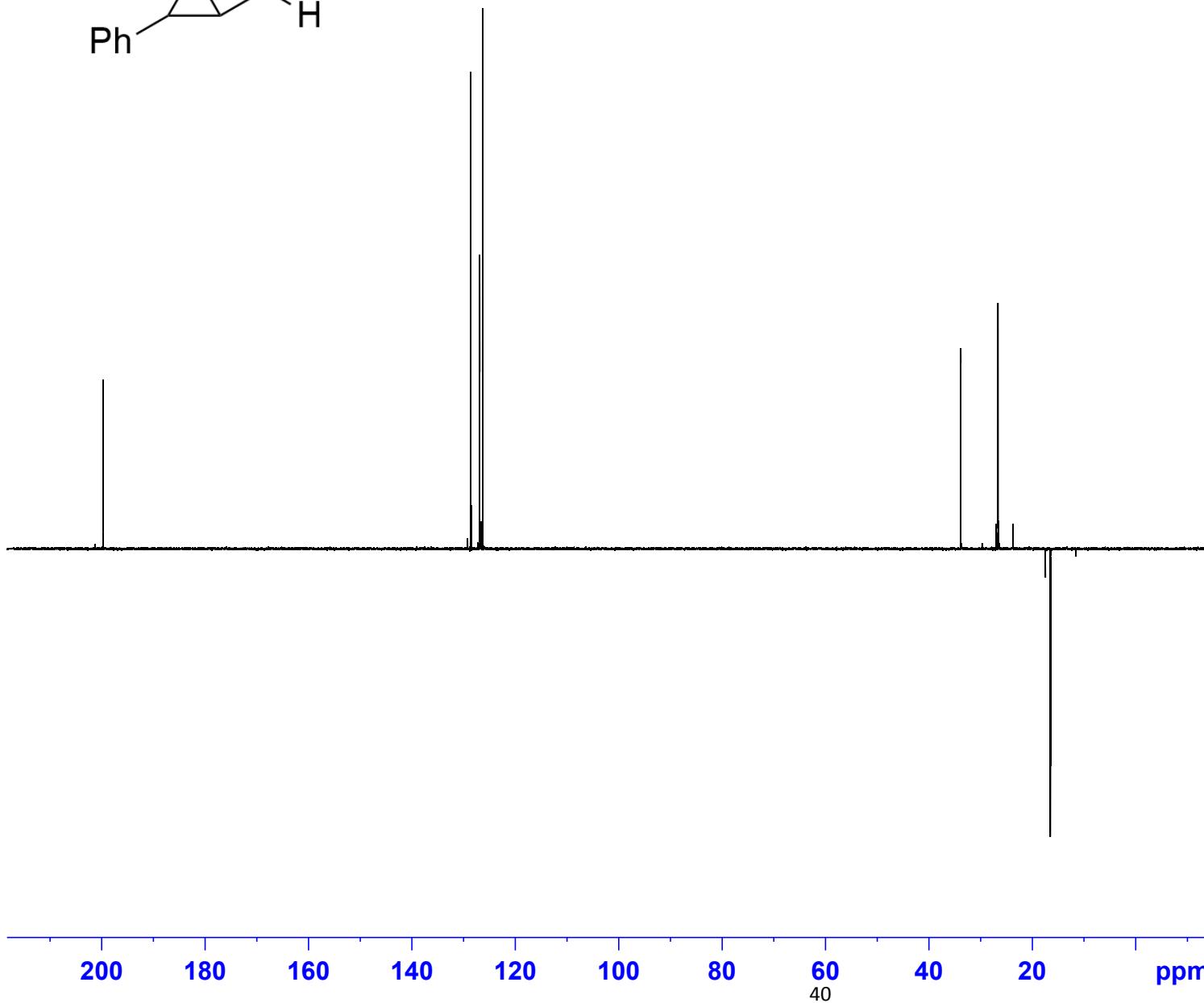
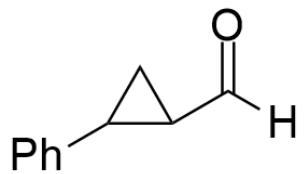
F2 - Processing parameters
SI 131072
SF 150.9028185 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
 NAME LH-I-32
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 9.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2300
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

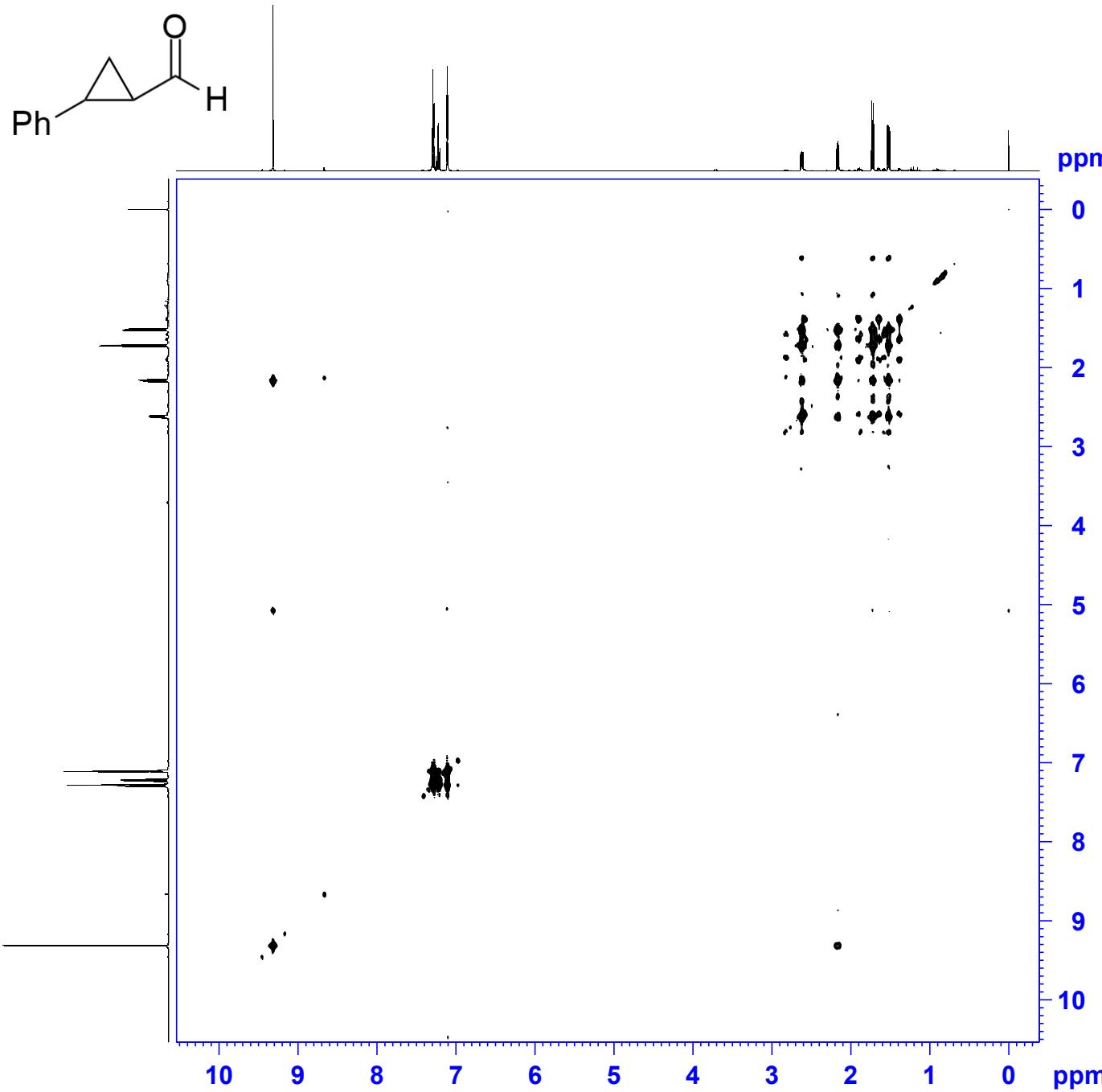
F2 - Processing parameters
 SI 131072
 SF 150.9028185 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-32
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116 h
 Time 10.29 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1
 SF01 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 18.08300018 W
 SF02 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

F2 - Processing parameters
 SI 131072
 SF 150.9028085 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



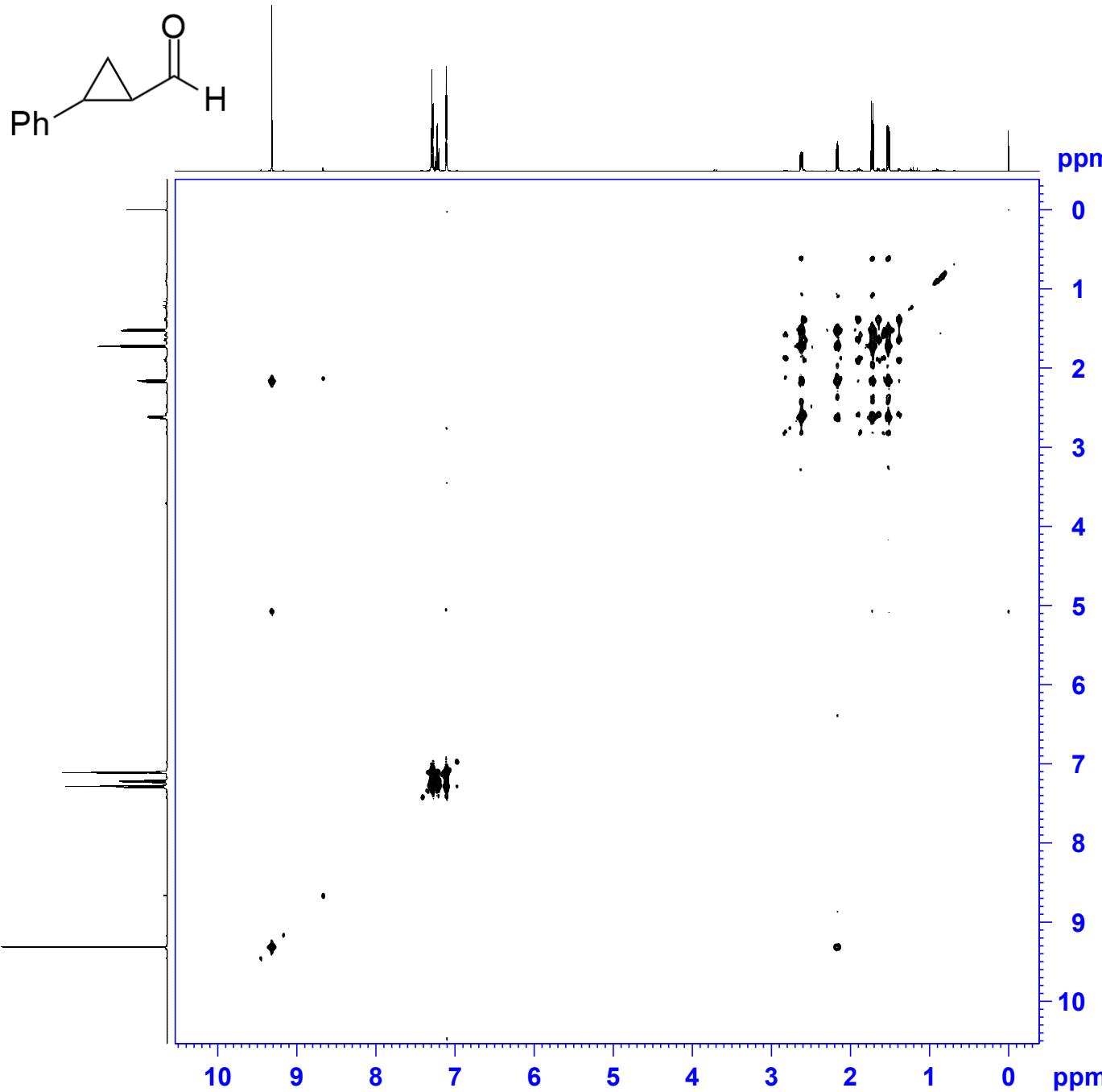
Current Data Parameters
NAME LH-I-32
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211116
Time 10.40 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG cosygppmfpqf
TD 2048
SOLVENT CDCl₃
NS 2
DS 8
SWH 6555.944 Hz
FIDRES 6.402289 Hz
AQ 0.1561941 sec
RG 186.92
DW 76.267 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.90579128 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00015260 sec
TDav 1
SFO1 600.1330681 MHz
NUC1 1H
P1 10.00 usec
P17 2500.00 usec
PLW1 26.6000038 W
PLW10 4.25600004 W
GPNAME[1] SMSQ10.100
GPZ1 16.00 %
GPNAME[2] SMSQ10.100
GPZ2 12.00 %
GPNAME[3] SMSQ10.100
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 600.1331 MHz
FIDRES 51.195938 Hz
SW 10.919 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 600.1300219 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 600.1300219 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0



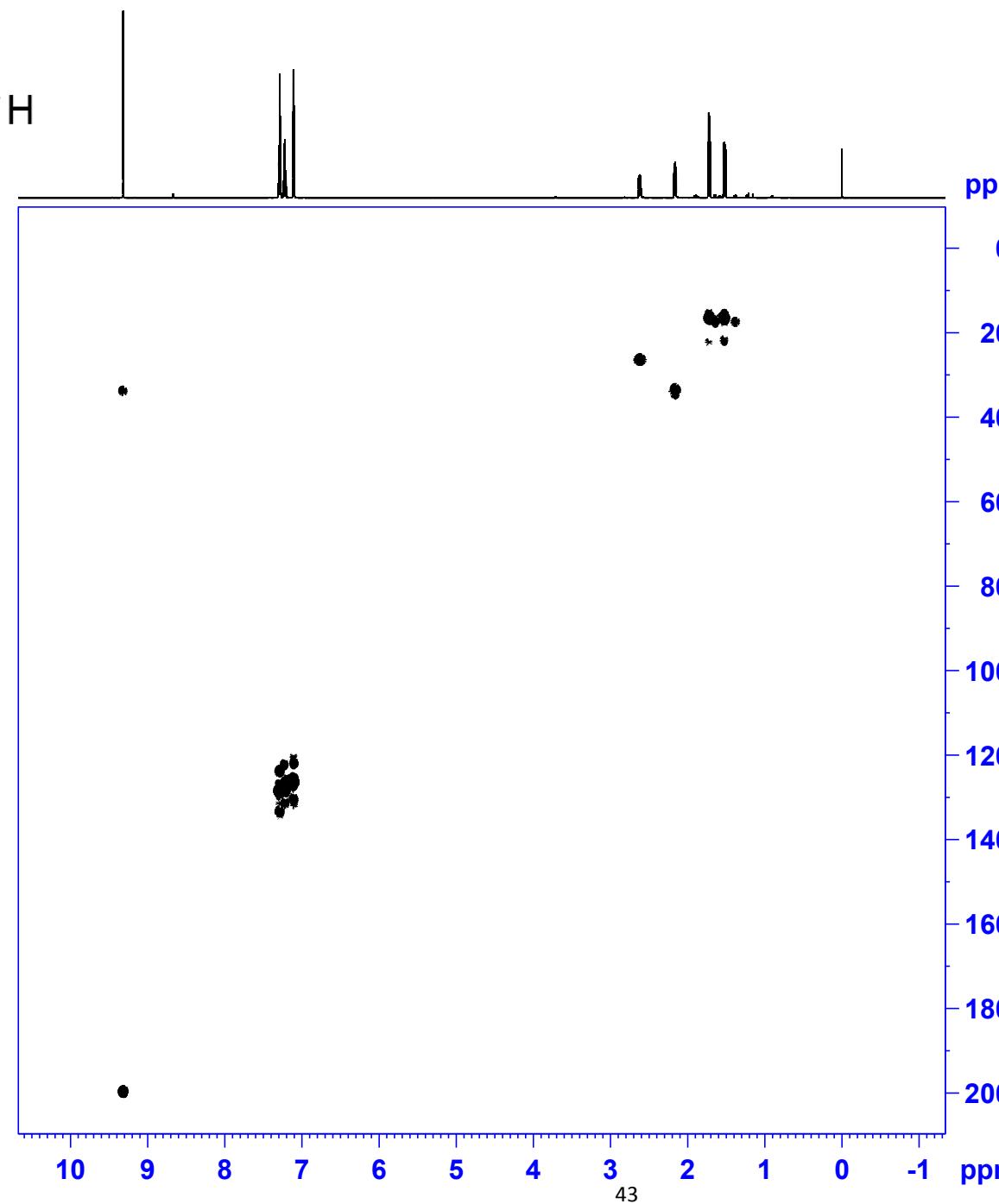
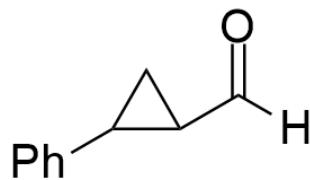
Current Data Parameters
 NAME LH-I-32
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211116
 Time 10.40 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG cosygppmfpqf
 TD 2048
 SOLVENT CDCl3
 NS 2
 DS 8
 SWH 6555.944 Hz
 FIDRES 6.402289 Hz
 AQ 0.1561941 sec
 RG 186.92
 DW 76.267 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.90579128 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00015260 sec
 TDav 1
 SFO1 600.1330681 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 4.25600004 W
 GPNAM[1] SMSQ10.100
 GPZ1 16.00 %
 GPNAM[2] SMSQ10.100
 GPZ2 12.00 %
 GPNAM[3] SMSQ10.100
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1331 MHz
 FIDRES 51.195938 Hz
 SW 10.919 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300219 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300219 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



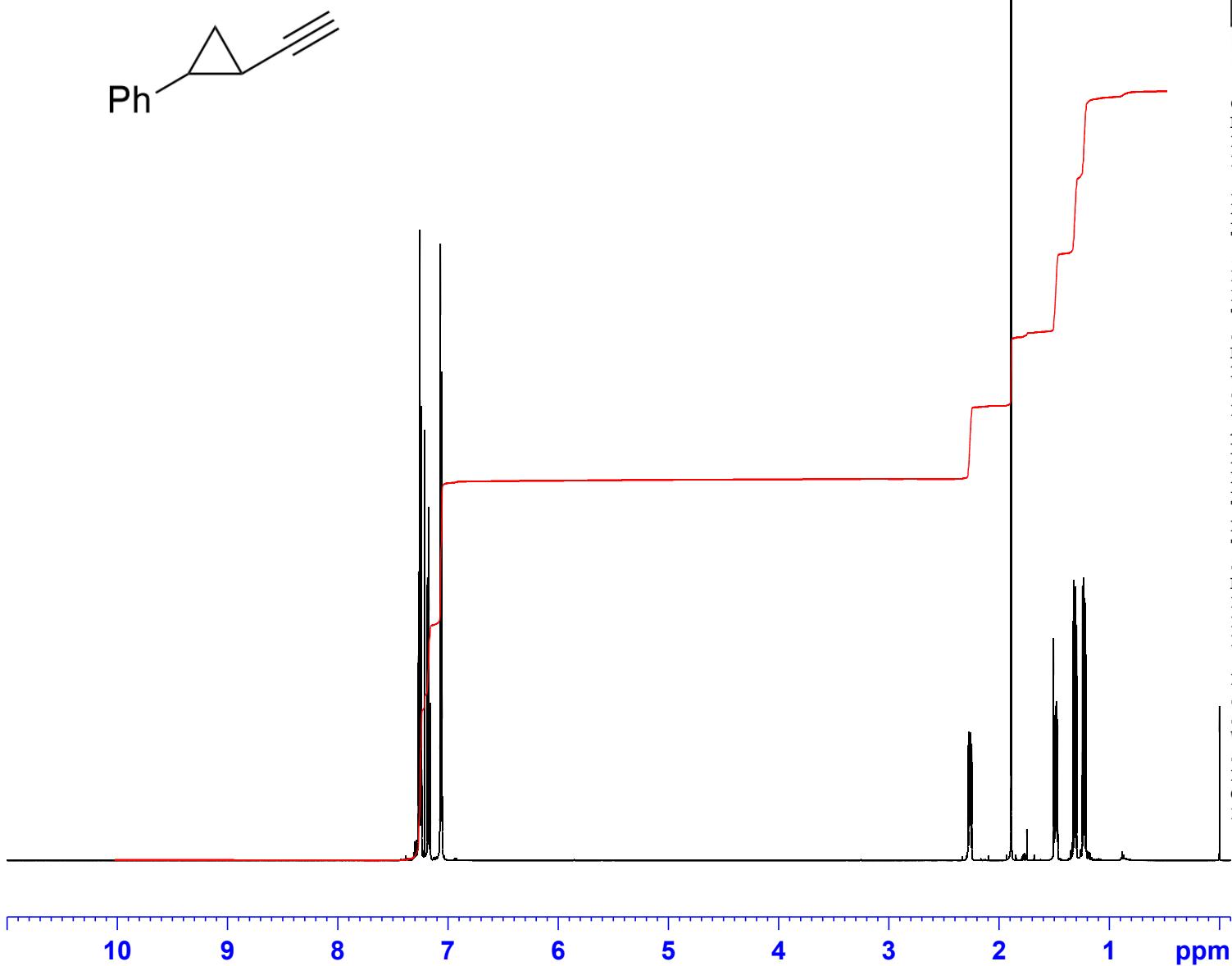
Current Data Parameters
NAME LH-I-32
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211116
Time 10.49 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG hsqcetgpsp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 7211.539 Hz
FIDRES 14.085036 Hz
AQ 0.0709973 sec
RG 186.92
DW 69.333 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D0 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.03000000 sec
D16 0.00020000 sec
D21 0.00360000 sec
IN0 0.00001510 sec
TDav 1
ZGOPTNS 600.1328223 MHz
SF01 1H
NUC1 1H
P1 10.00 usec
P2 20.00 usec
PLW1 26.60000038 W
SF02 150.9178988 MHz
NUC2 13C
CPDPRG[2] garp4
P3 11.80 usec
P14 500.00 usec
P31 1730.00 usec
PCPD2 60.00 usec
PLW0 0 W
PLW2 85.00000000 W
PLW12 3.28760004 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 18.08300018 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 5.22629976 W
GPNAME[1] SMSQ10,100
GPZ1 80.00 %
GPNAME[2] SMSQ10,100
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 150.9179 MHz
FIDRES 258.692047 Hz
SW 219.408 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 600.1300205 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0
PC 1.40

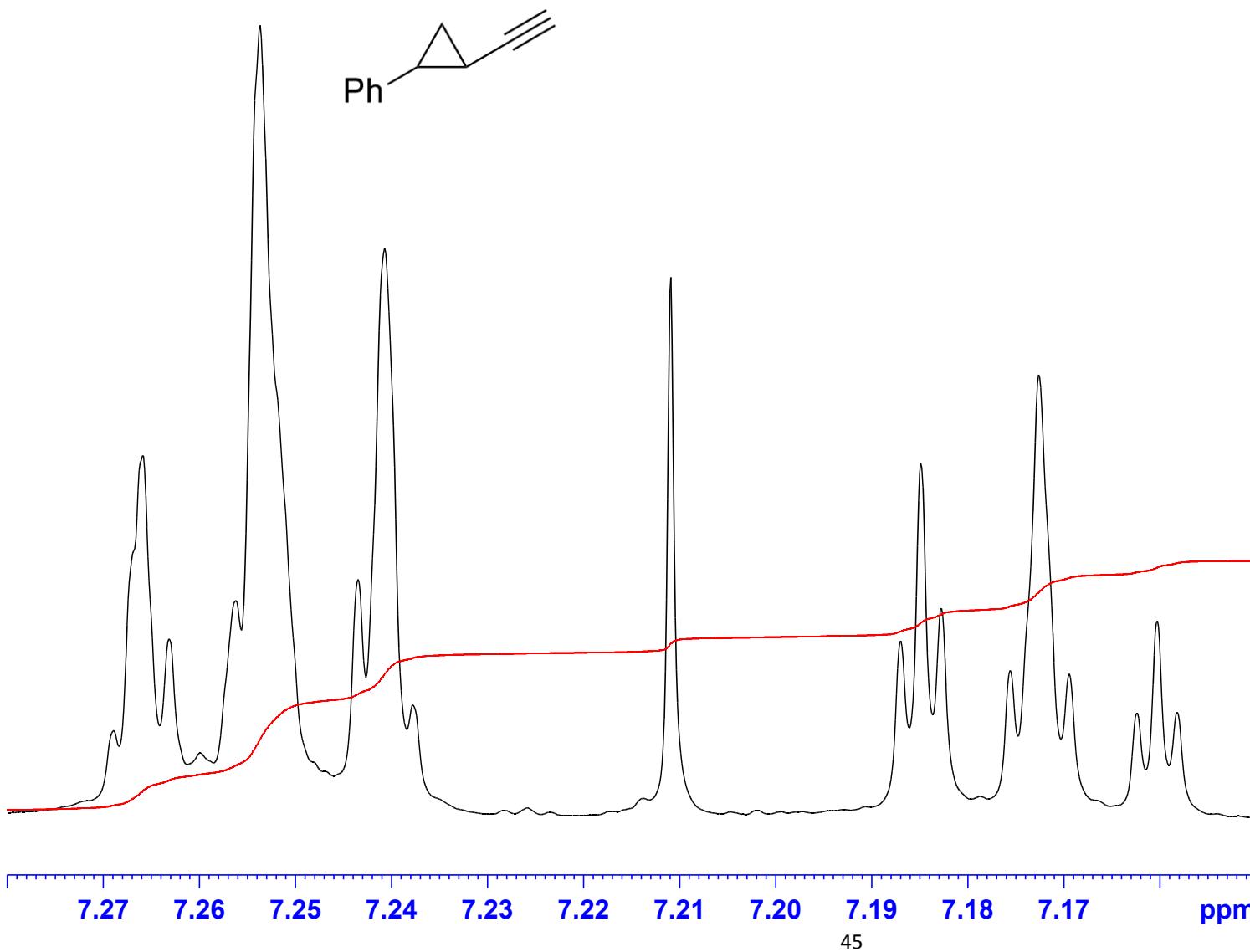
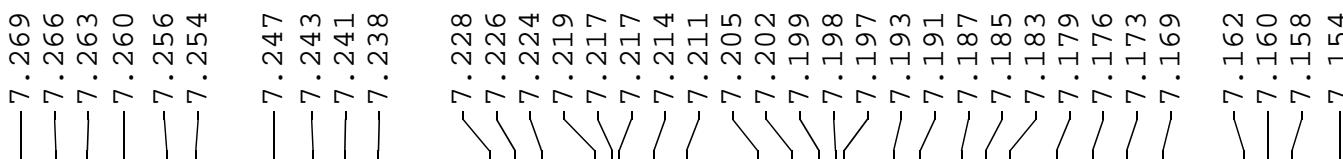
F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 150.9028159 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

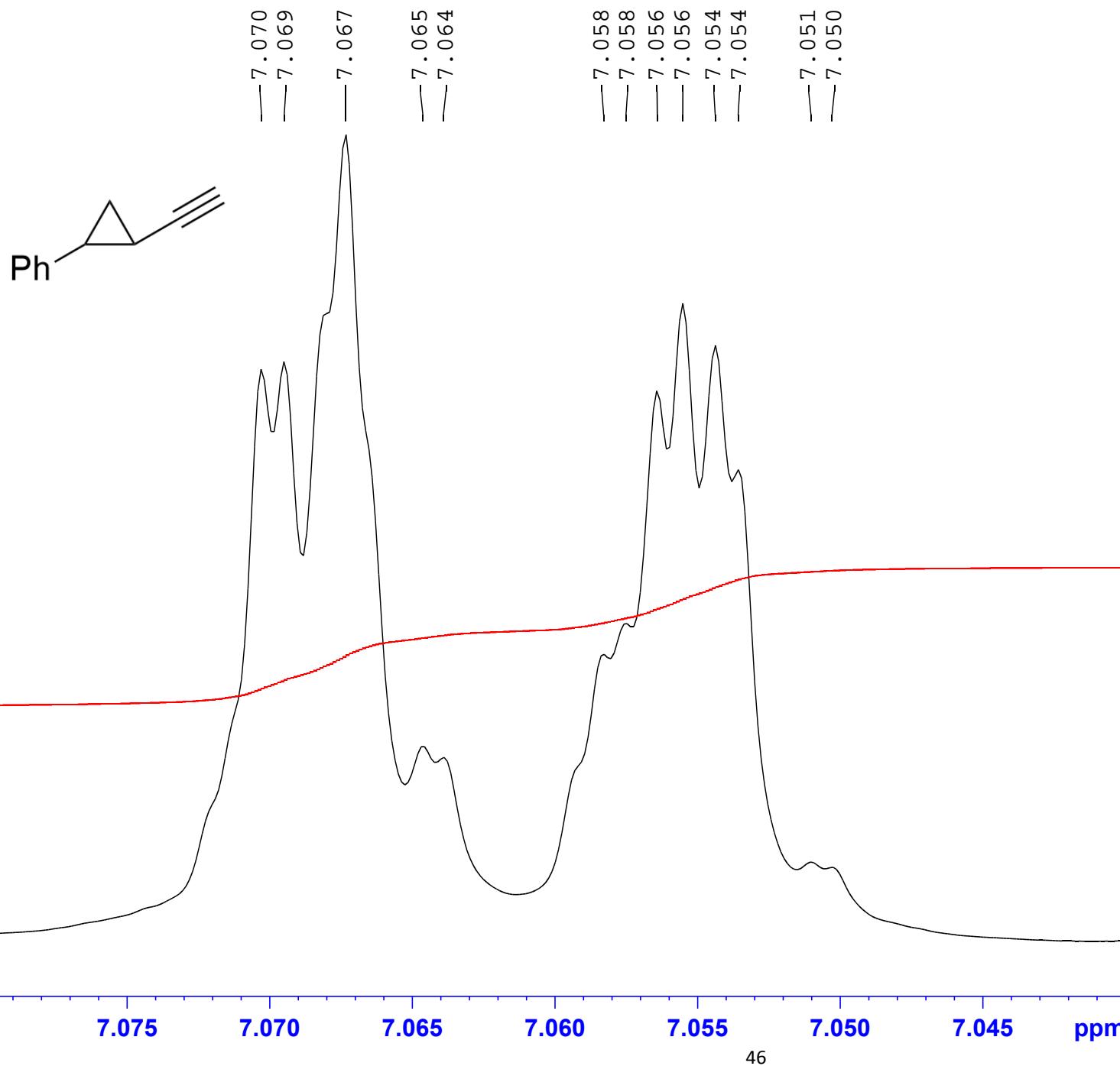
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

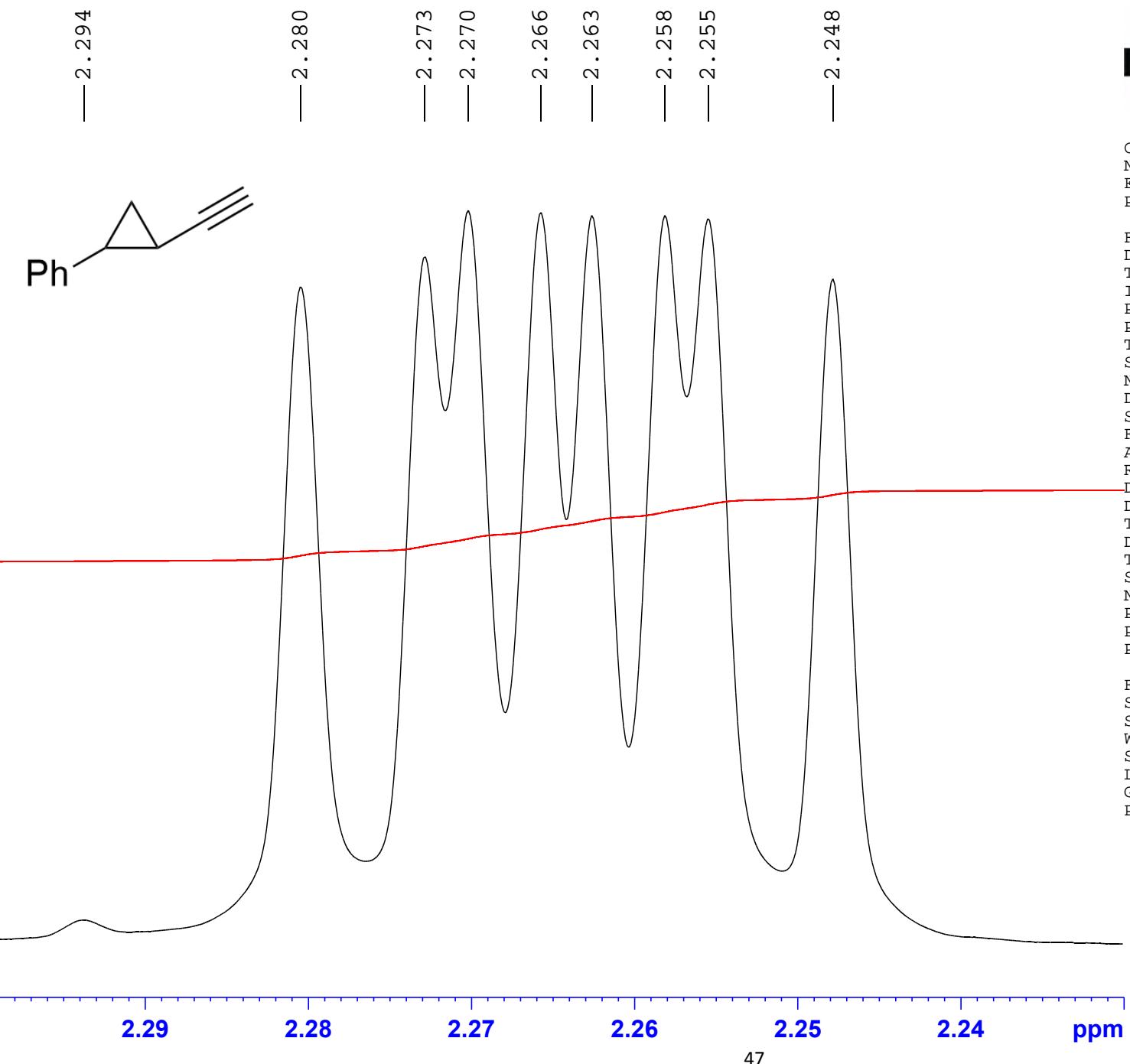
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

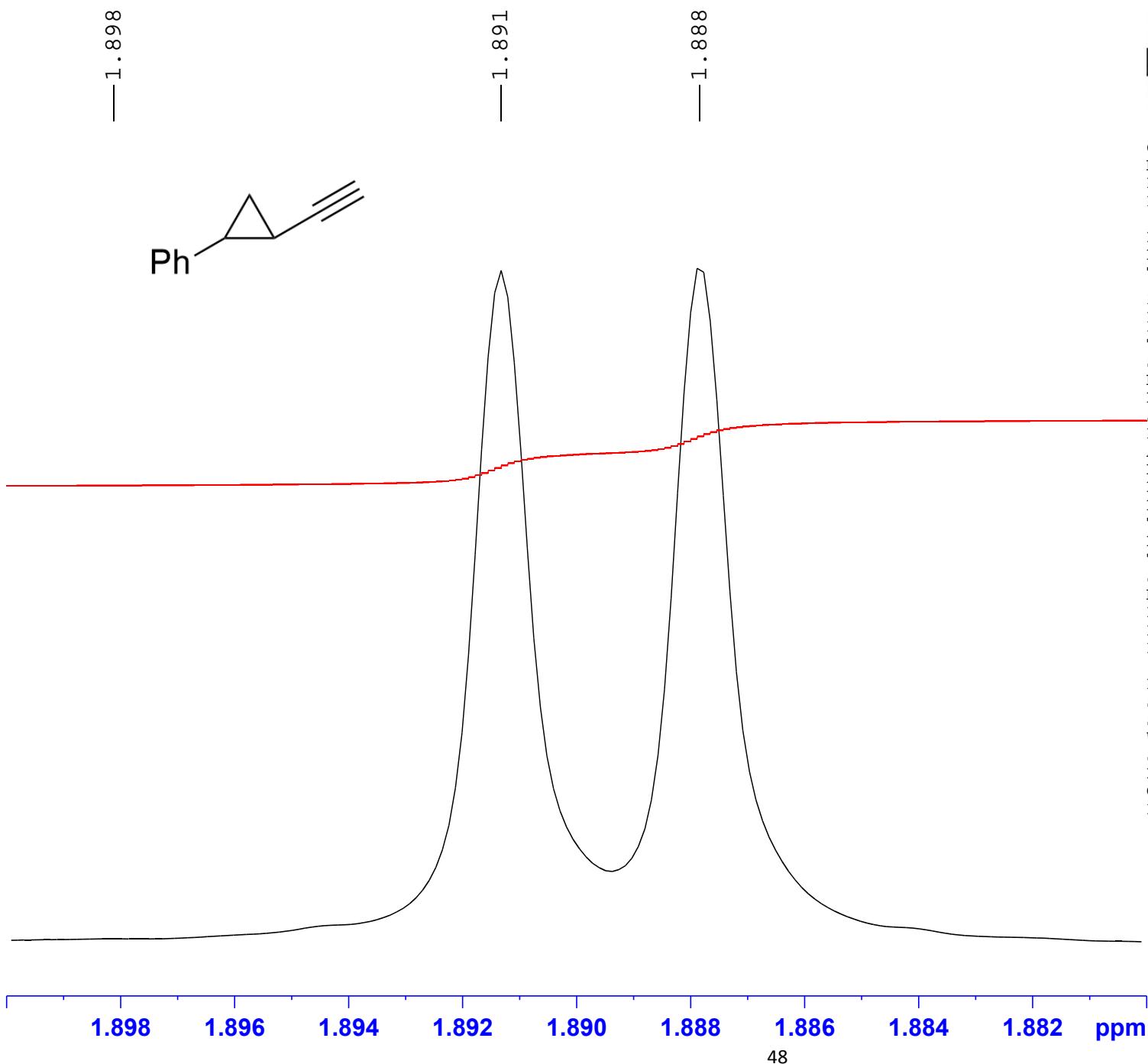
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

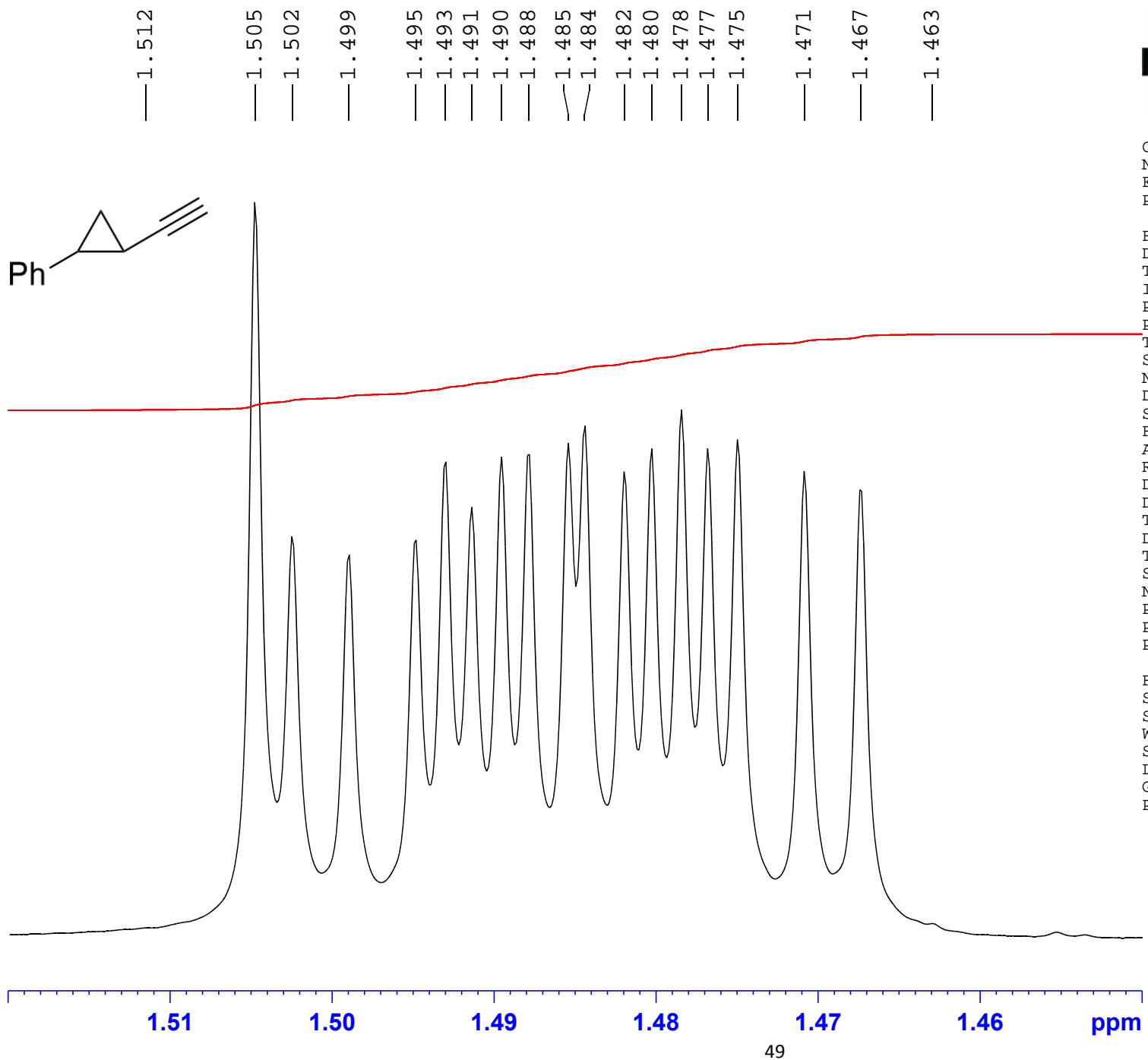
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
NAME LH-I-34
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211118
Time 1.43 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 31.58
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

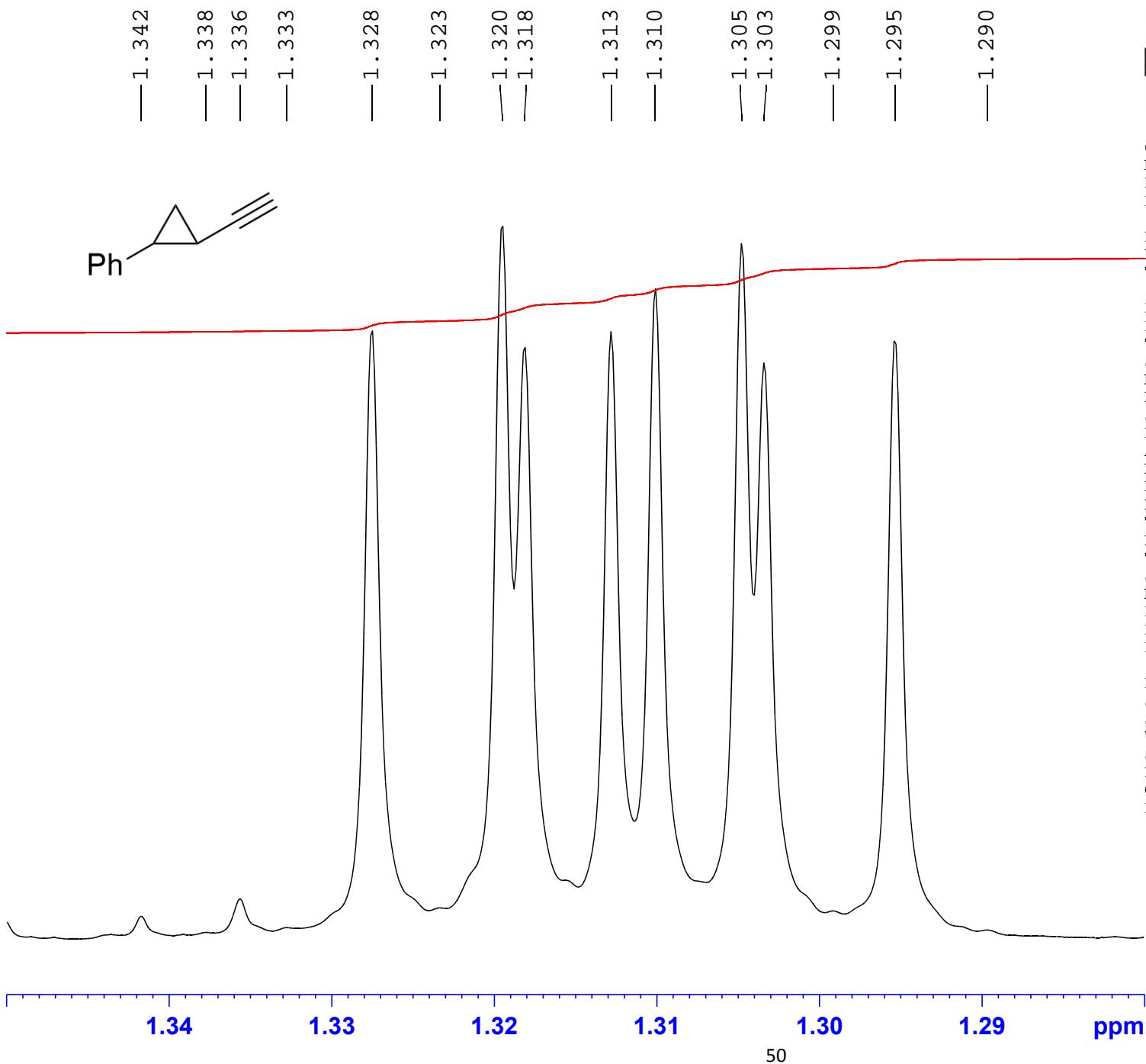
F2 - Processing parameters
SI 262144
SF 600.1300446 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

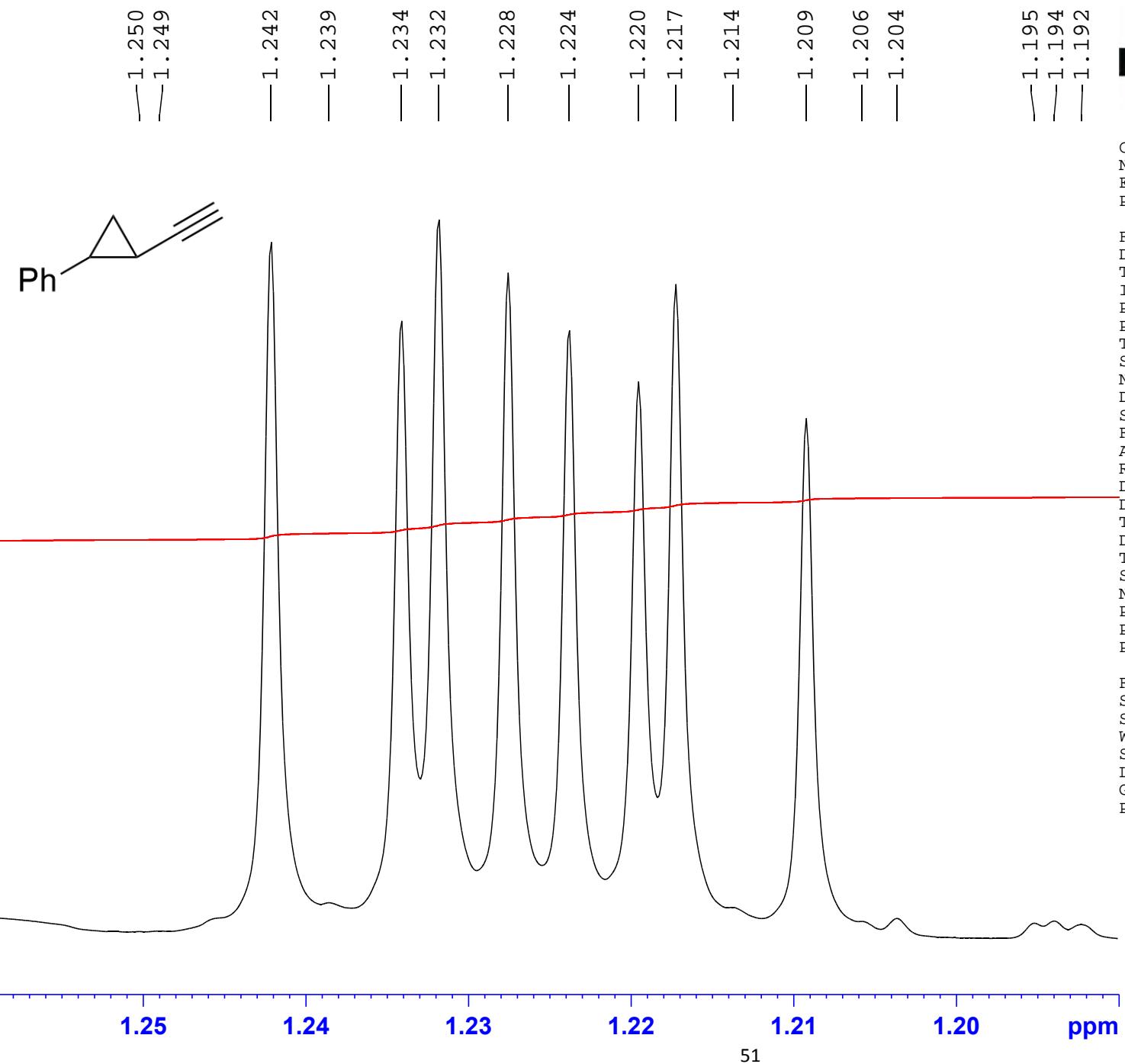
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

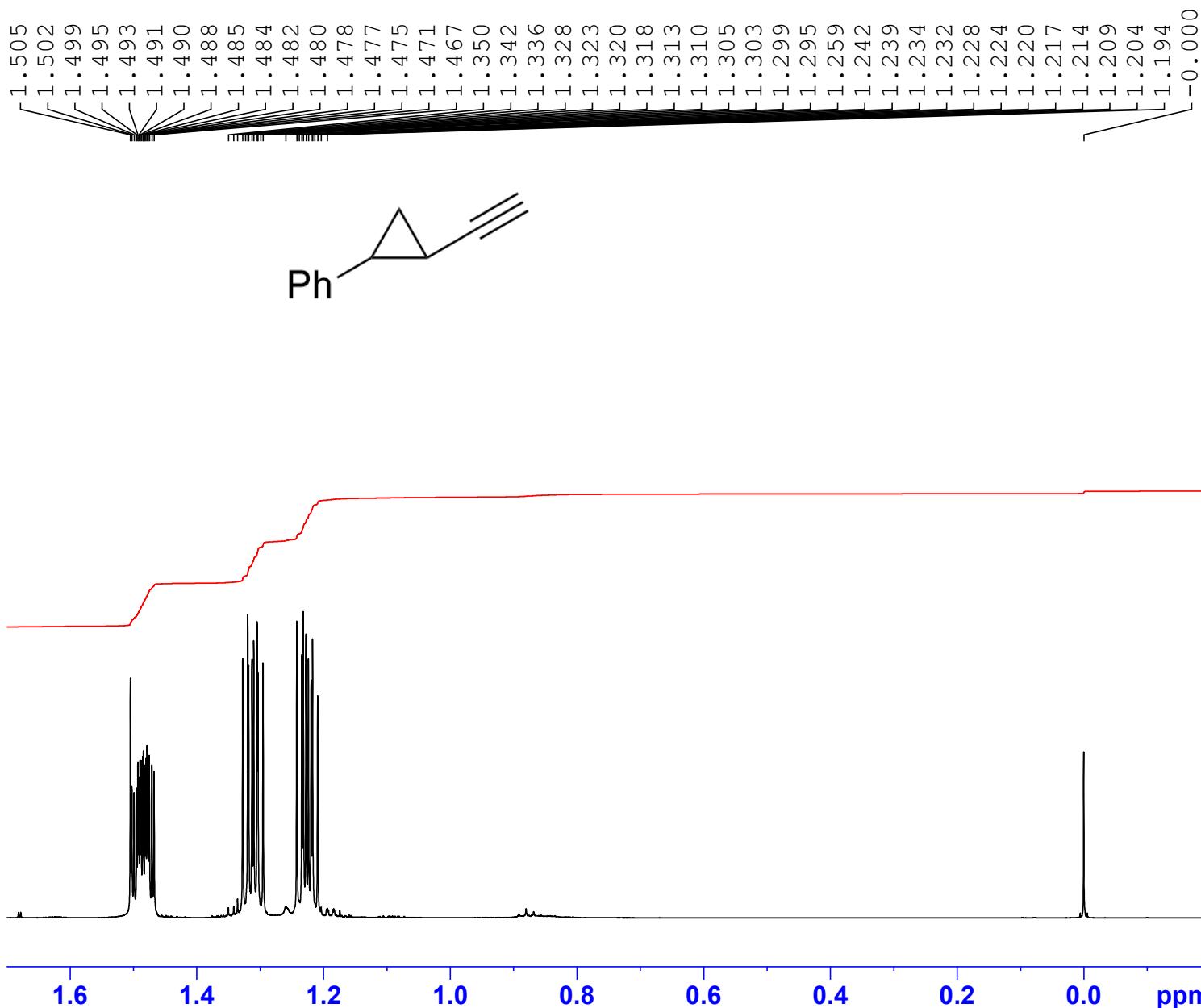
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

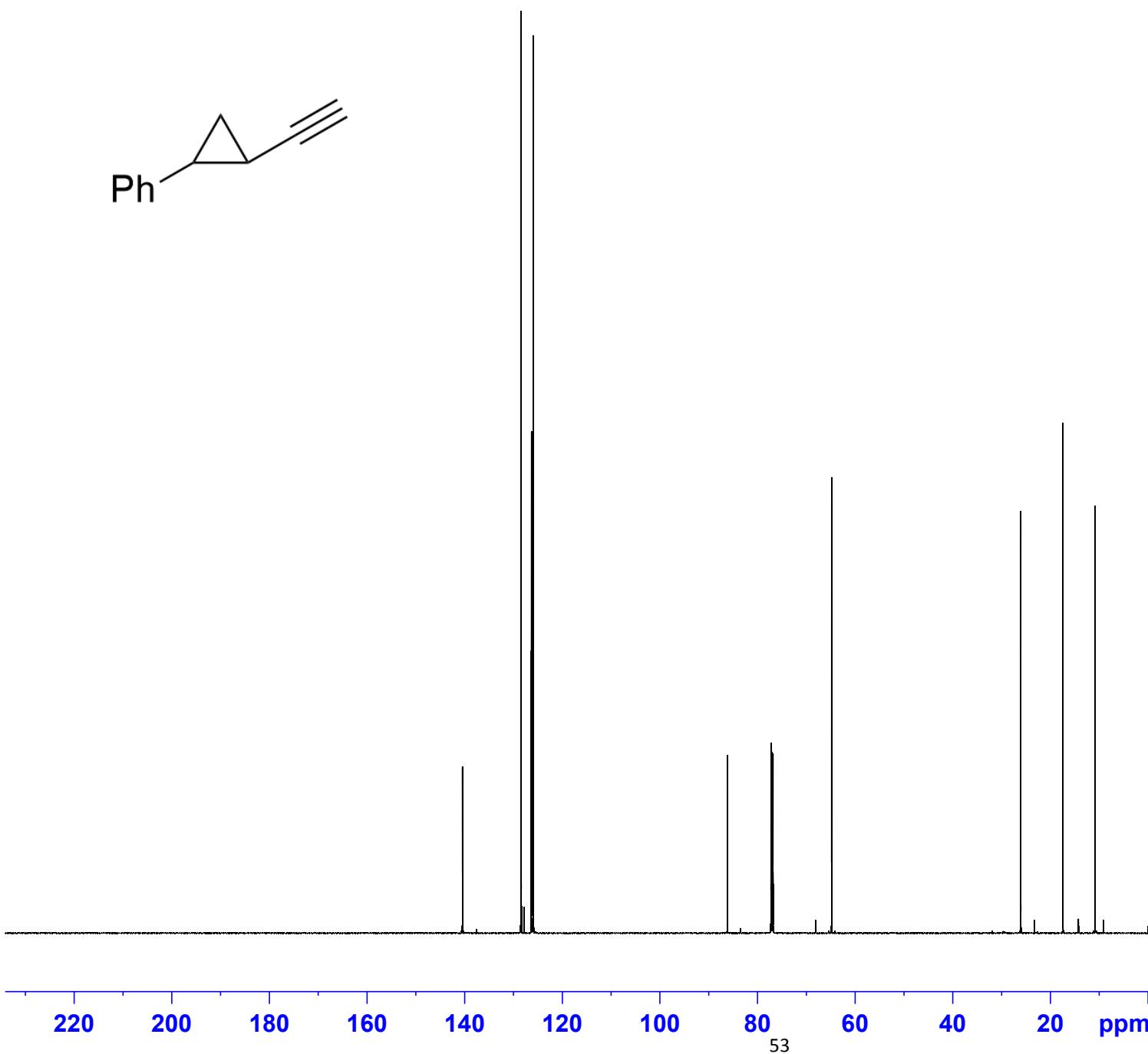
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211118
 Time 1.43 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 31.58
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

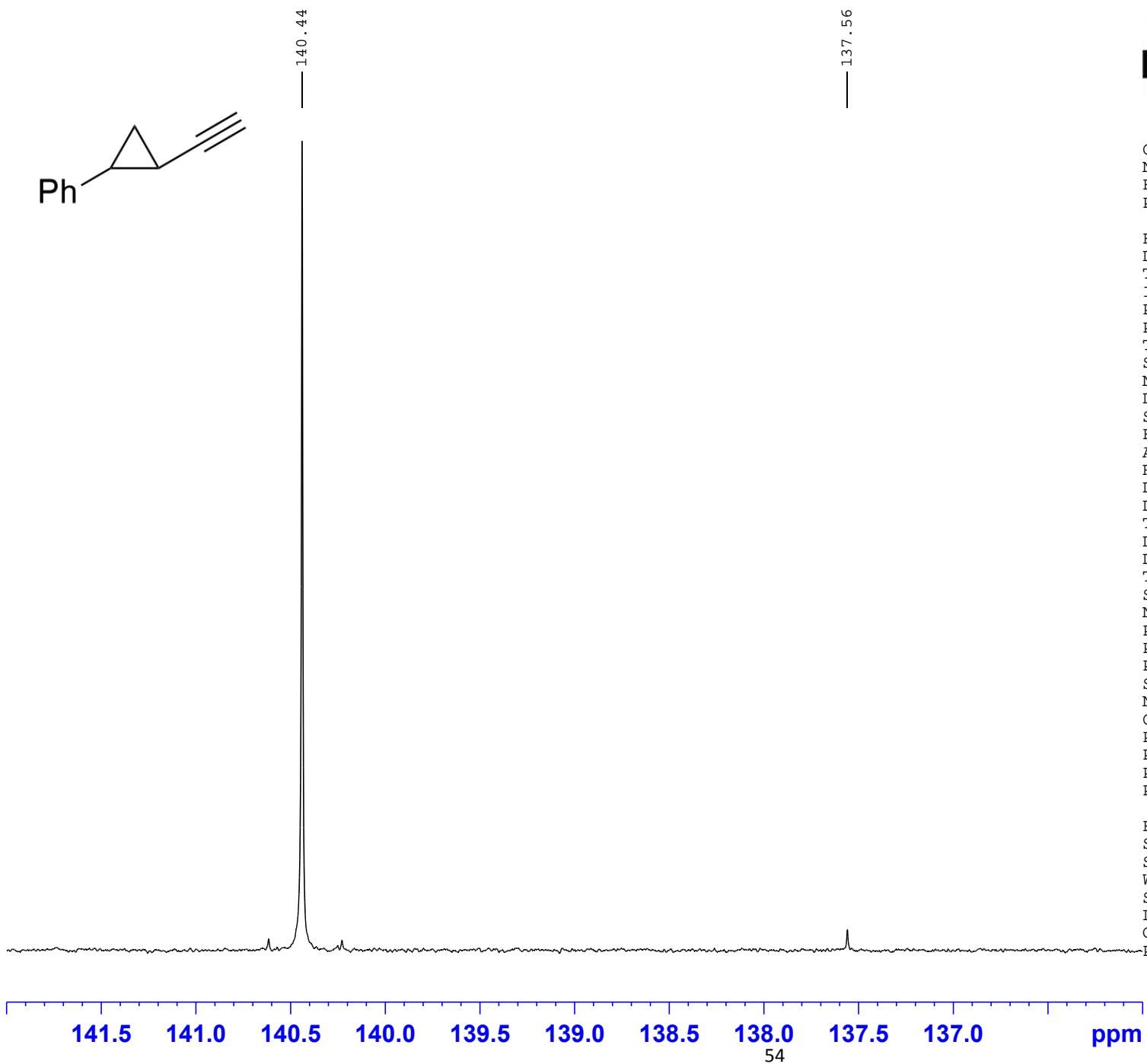
F2 - Processing parameters
 SI 262144
 SF 600.1300446 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-34
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 3.30 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl₃
 NS 2400
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

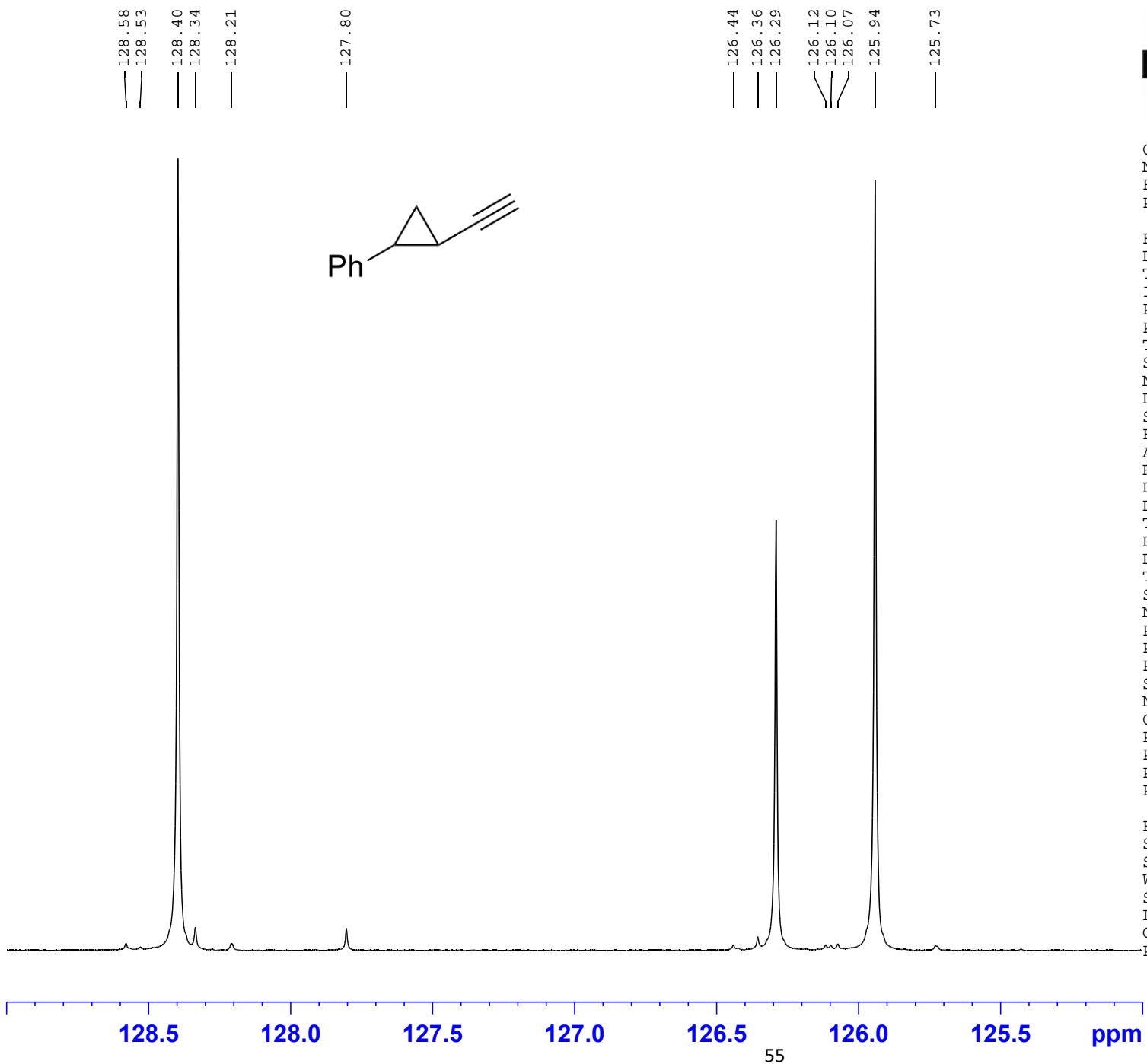
F2 - Processing parameters
 SI 131072
 SF 150.9028228 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
NAME LH-I-34
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211118
Time 3.30 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 2400
DS 4
SWH 37500.000 Hz
FIDRES 0.630019 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 6.53 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 150.9194058 MHz
NUC1 13C
P0 3.93 usec
P1 11.80 usec
PLW1 85.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2 waltz64
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W
PLW13 0.28836000 W

F2 - Processing parameters
SI 131072
SF 150.9028228 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters

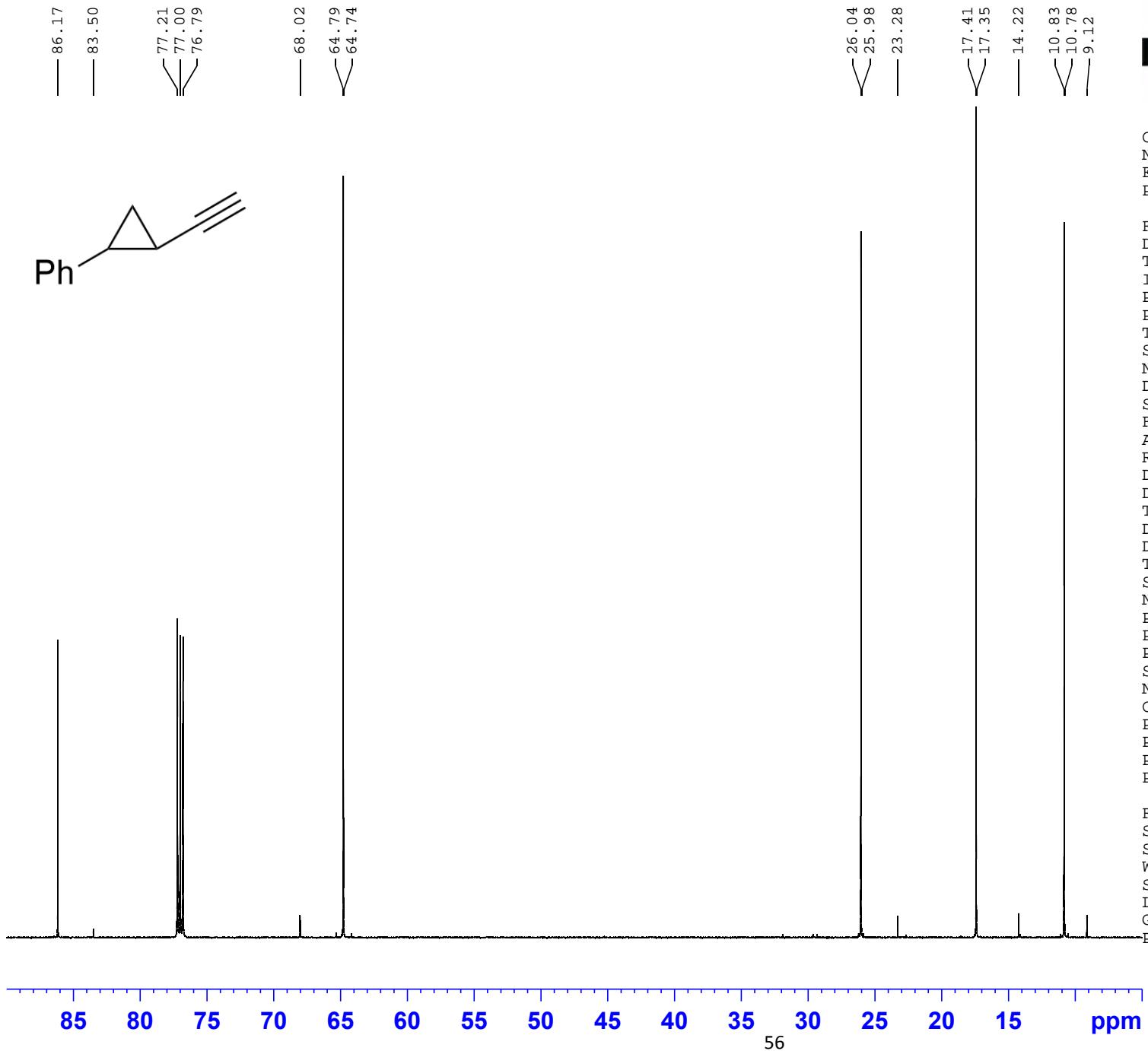
NAME LH-I-34
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20211118
 Time 3.30 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2400
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters

SI 131072
 SF 150.9028228 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters

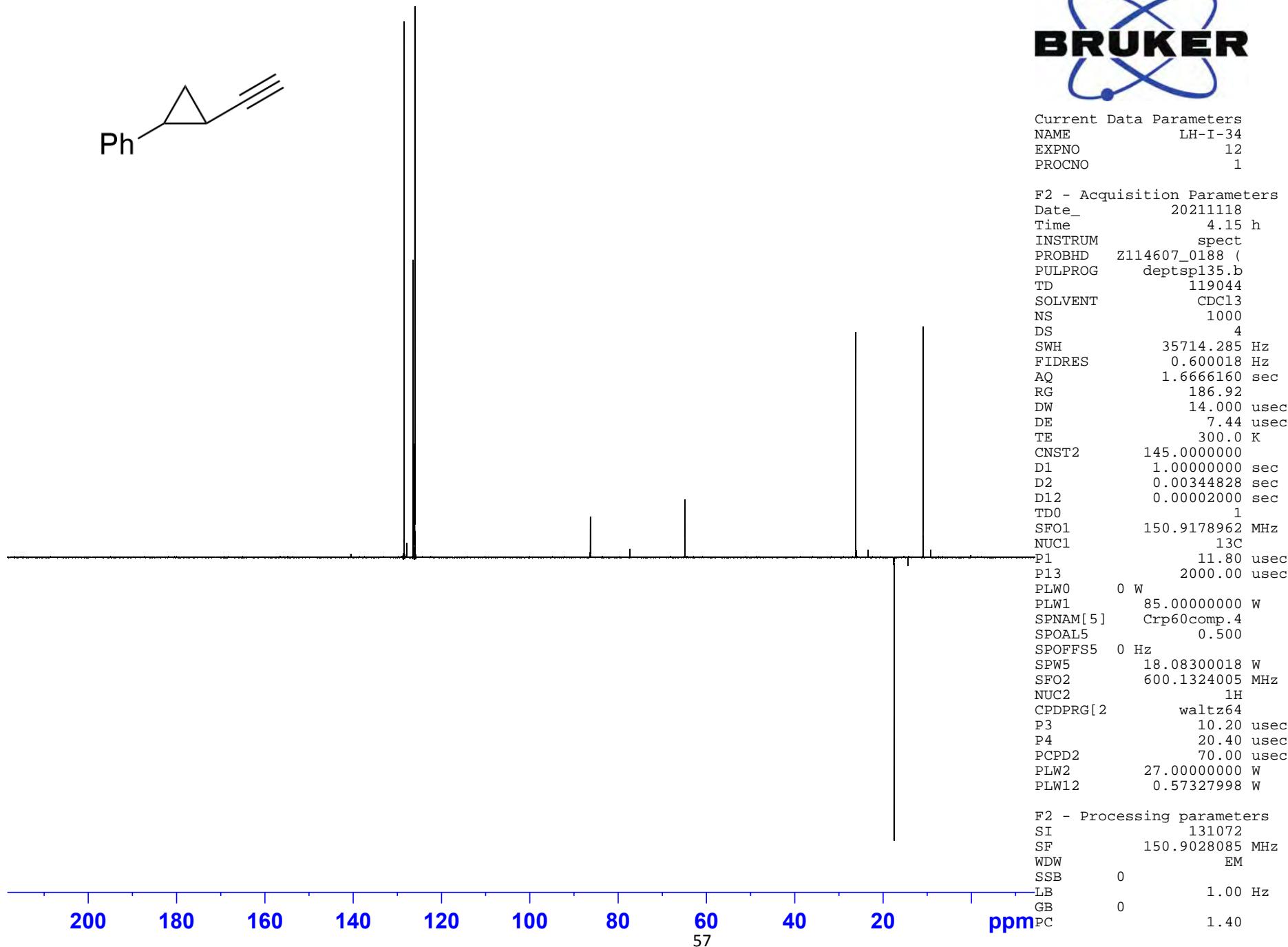
NAME LH-I-34
EXPNO 11
PROCNO 1

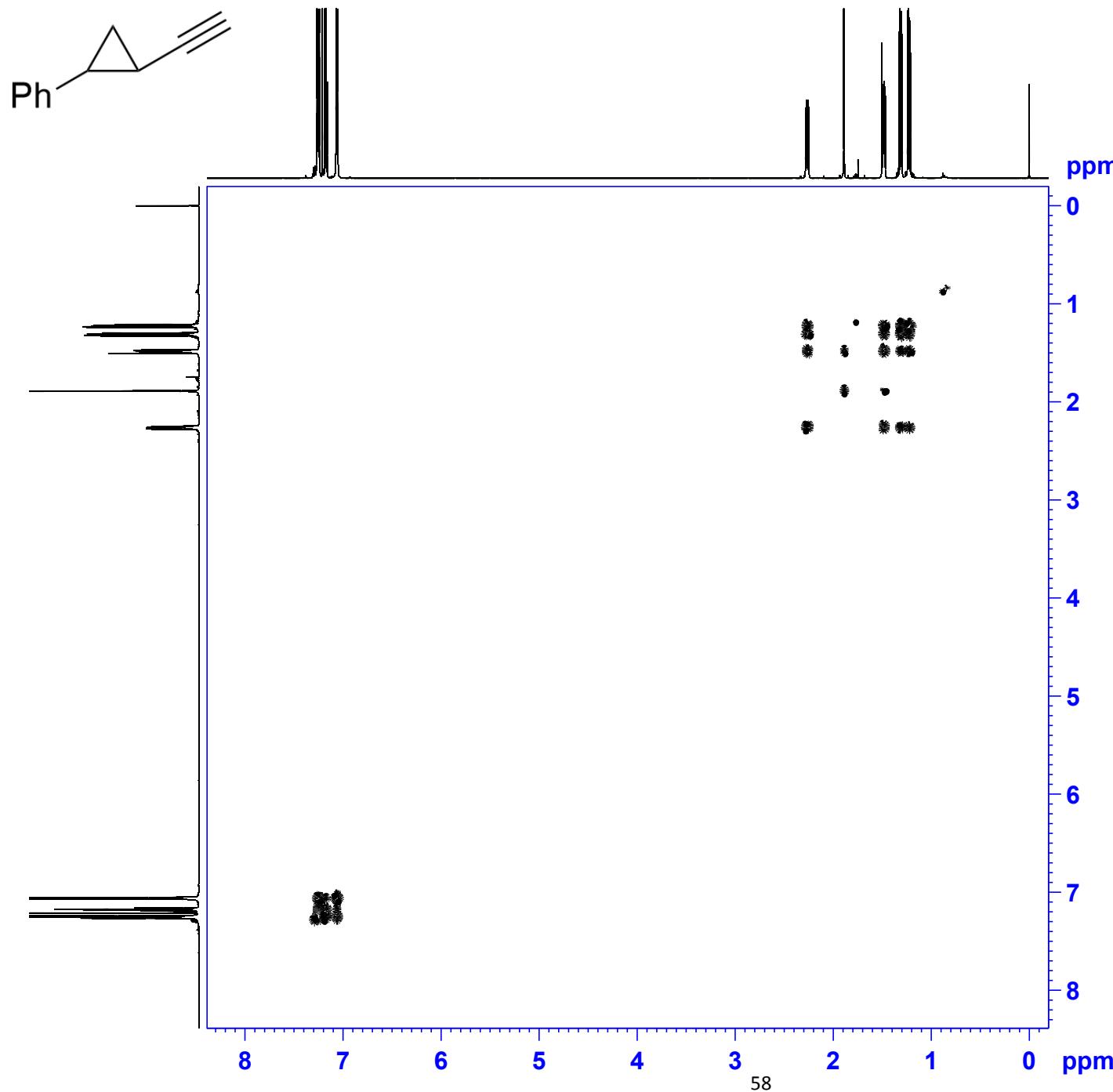
F2 - Acquisition Parameters

Date_ 20211118
Time 3.30 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 2400
DS 4
SWH 37500.000 Hz
FIDRES 0.630019 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 6.53 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 150.9194058 MHz
NUC1 13C
P0 3.93 usec
P1 11.80 usec
PLW1 85.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2 waltz64
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W
PLW13 0.28836000 W

F2 - Processing parameters

SI 131072
SF 150.9028228 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





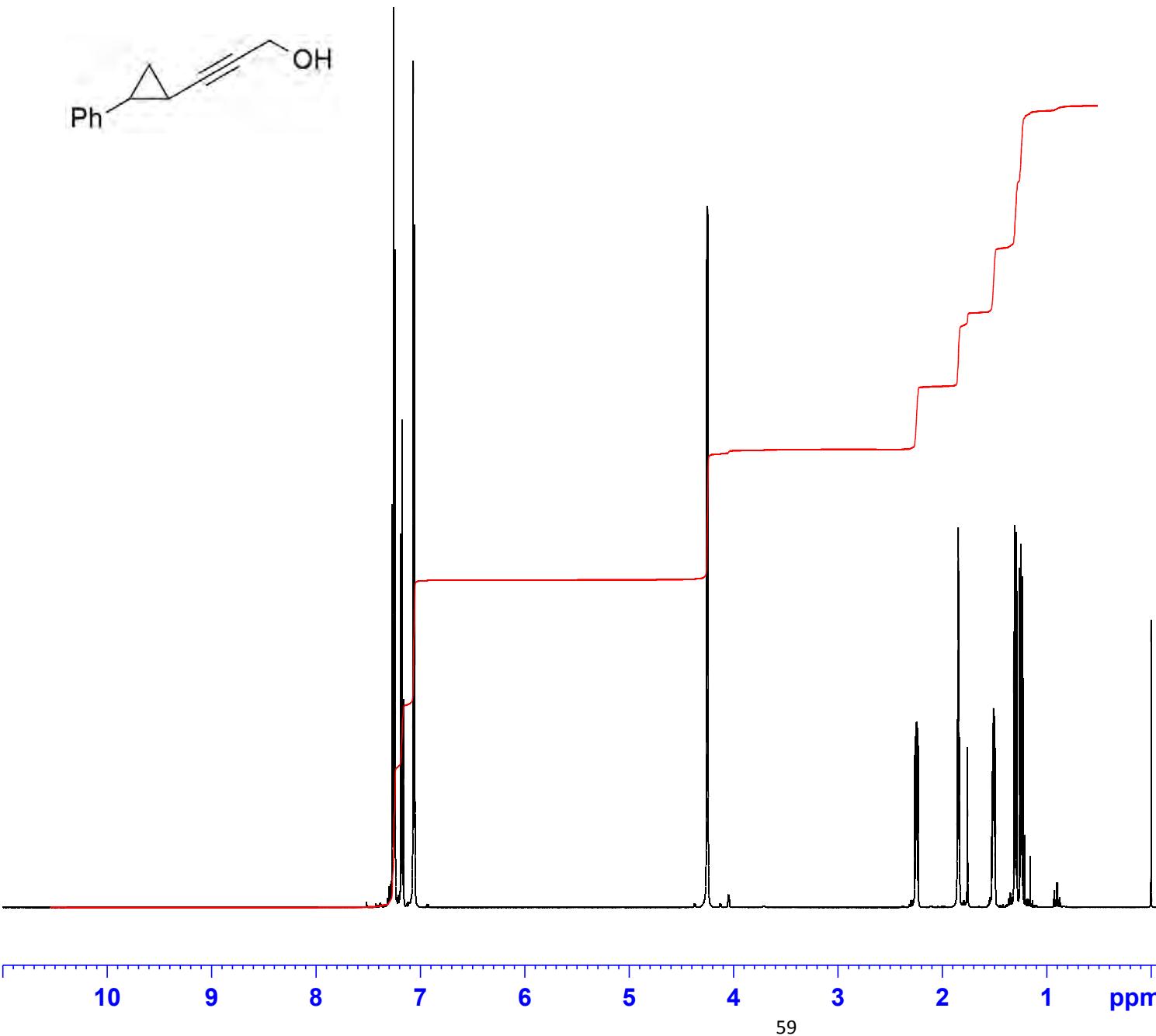
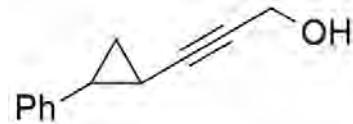
Current Data Parameters
 NAME LH-I-34
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211118
 Time 4.26 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 2
 DS 8
 SWH 5154.639 Hz
 FIDRES 5.033827 Hz
 AQ 0.1986560 sec
 RG 186.92
 DW 97.000 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.85868728 sec
 D11 0.03000000 sec
 D12 0.000002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00019400 sec
 TDav 1
 SFO1 600.1325007 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 4.25600004 W
 GPNAM[1] SMSQ10.100
 GPZ1 16.00 %
 GPNAM[2] SMSQ10.100
 GPZ2 12.00 %
 GPNAM[3] SMSQ10.100
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1325 MHz
 FIDRES 40.270618 Hz
 SW 8.589 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300446 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

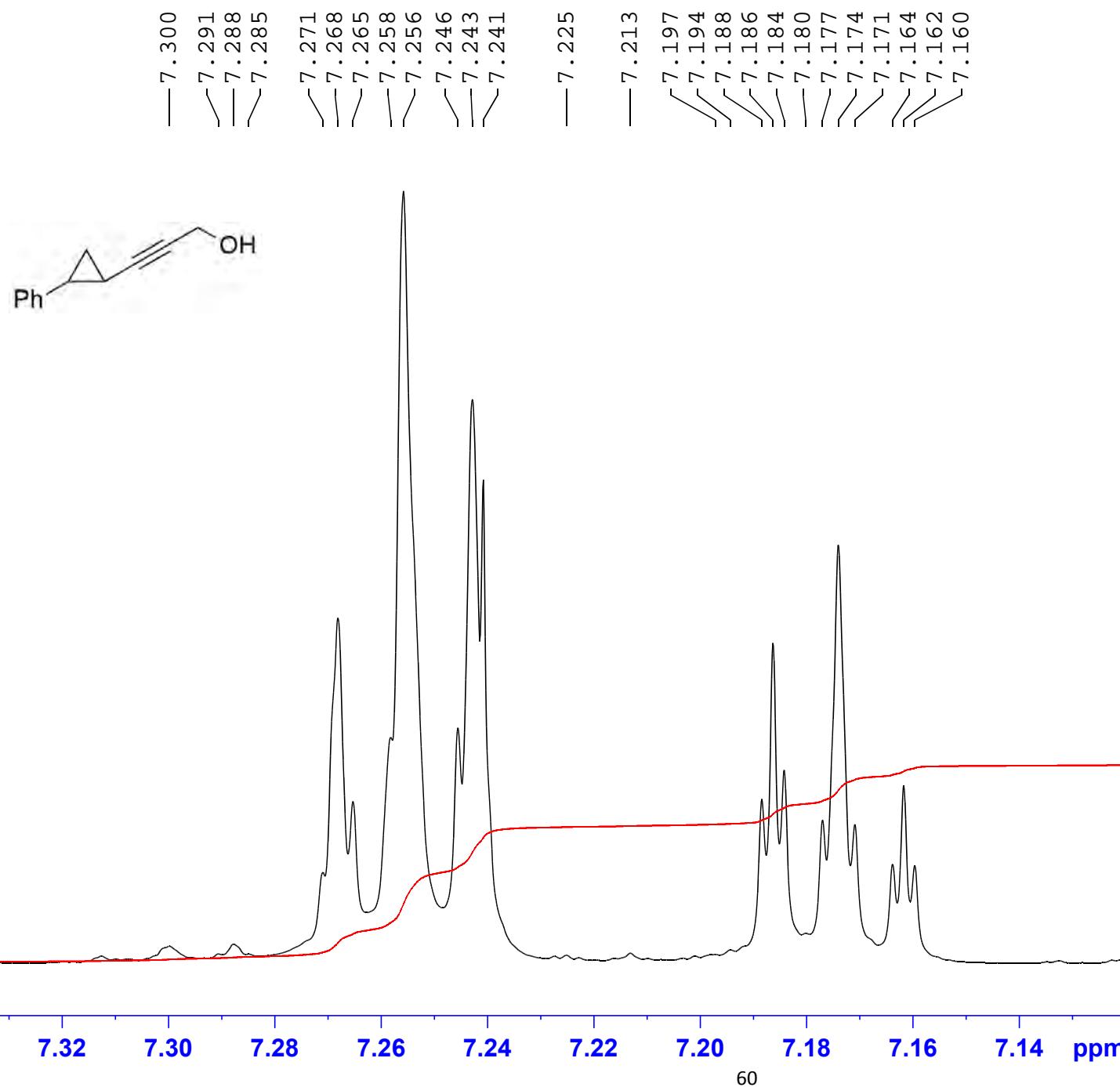
F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300446 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



Current Data Parameters
NAME LH-I-35
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211123
Time 23.35 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 39.55
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300258 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

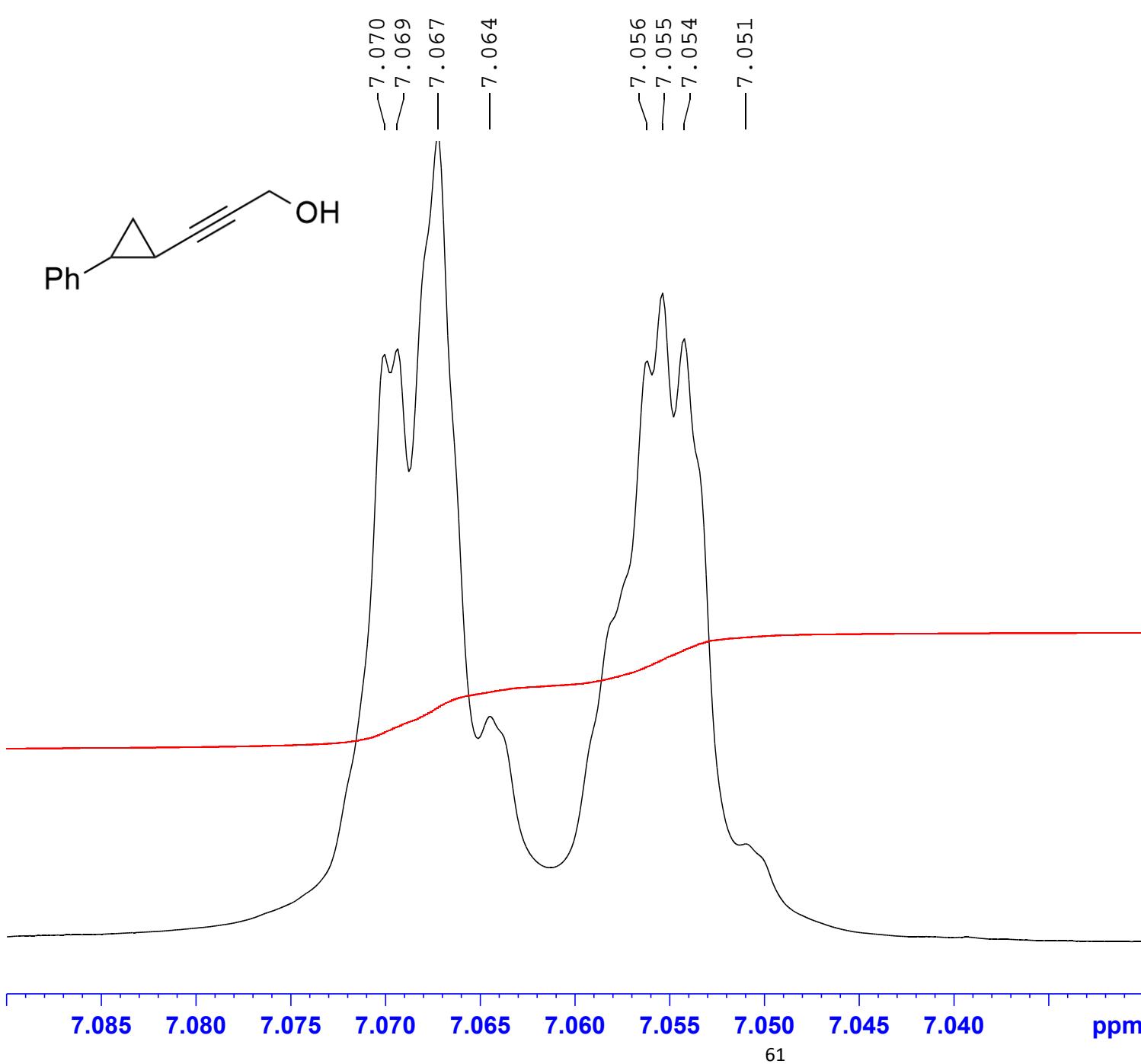
F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

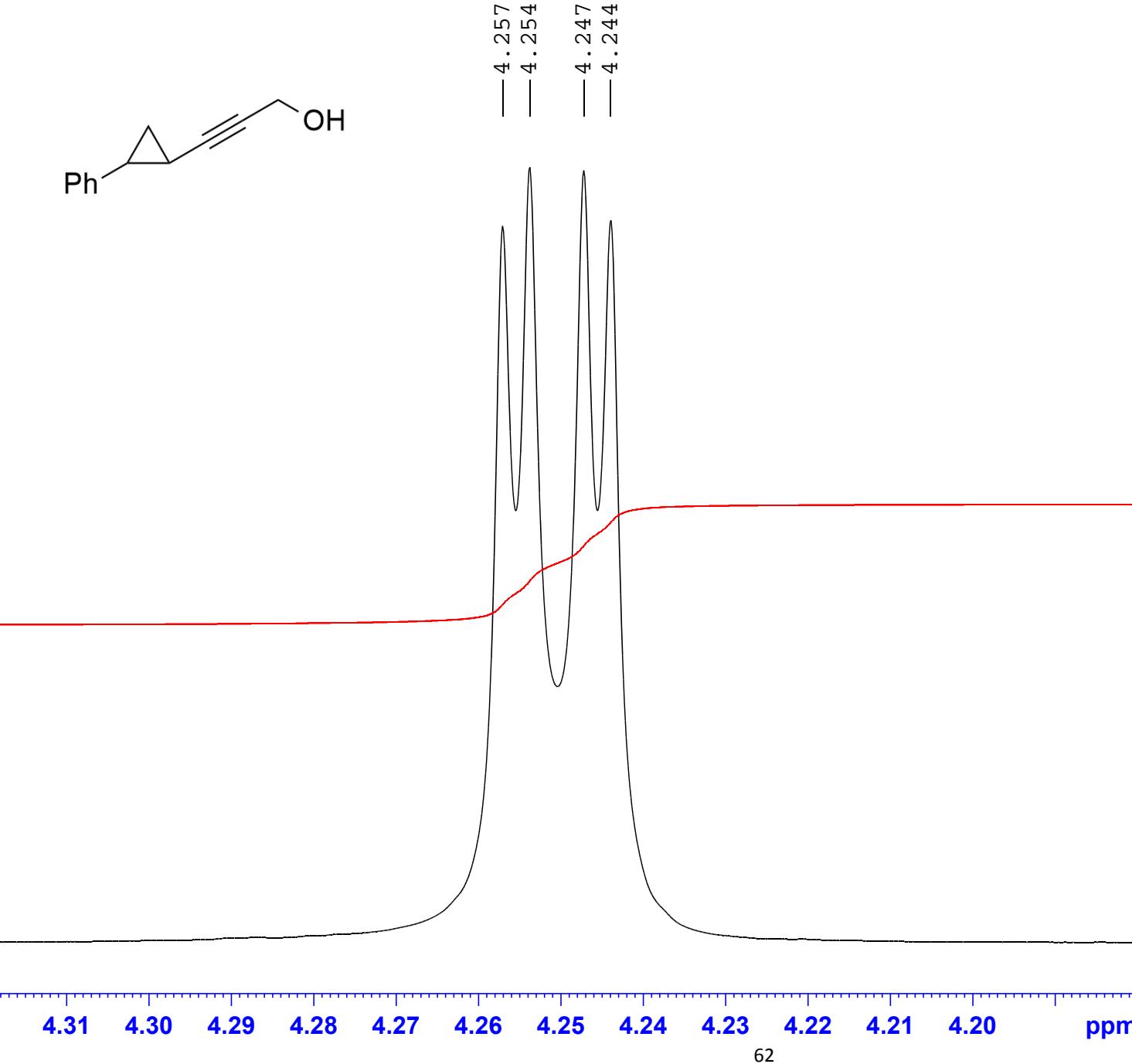


Current Data Parameters
NAME LH-I-35
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211123
Time 23.35 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 39.55
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300258 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

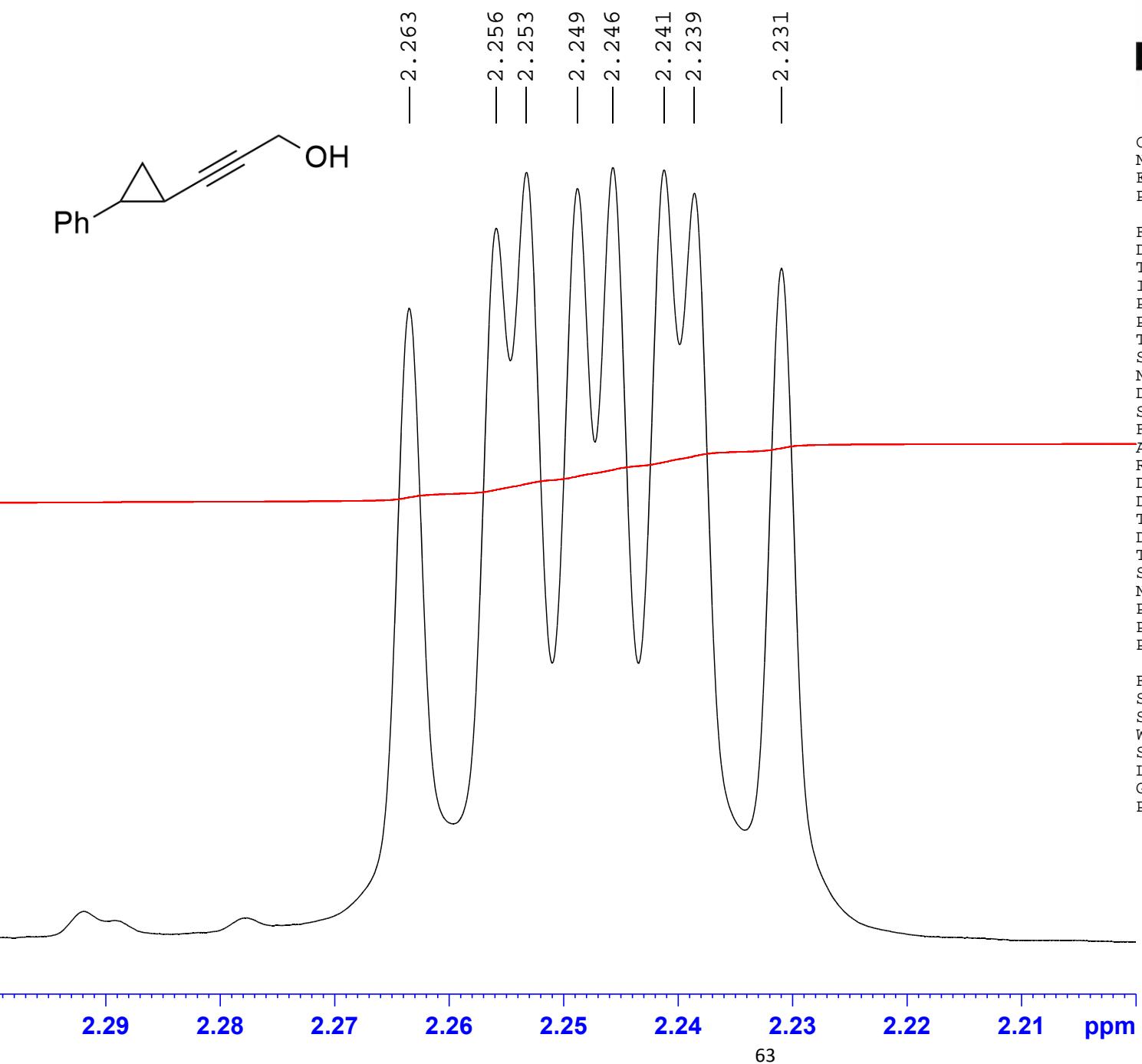




Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

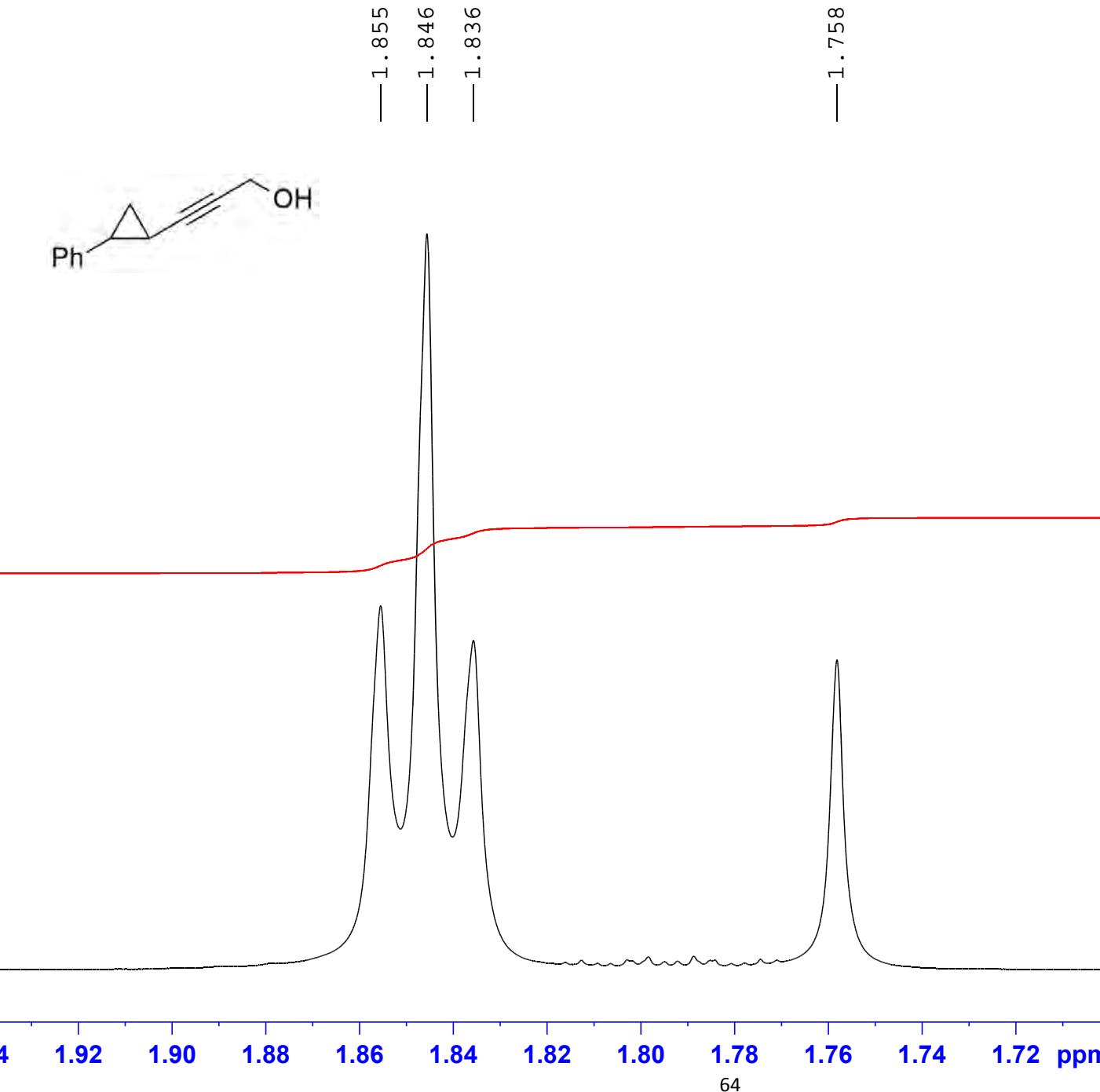
F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

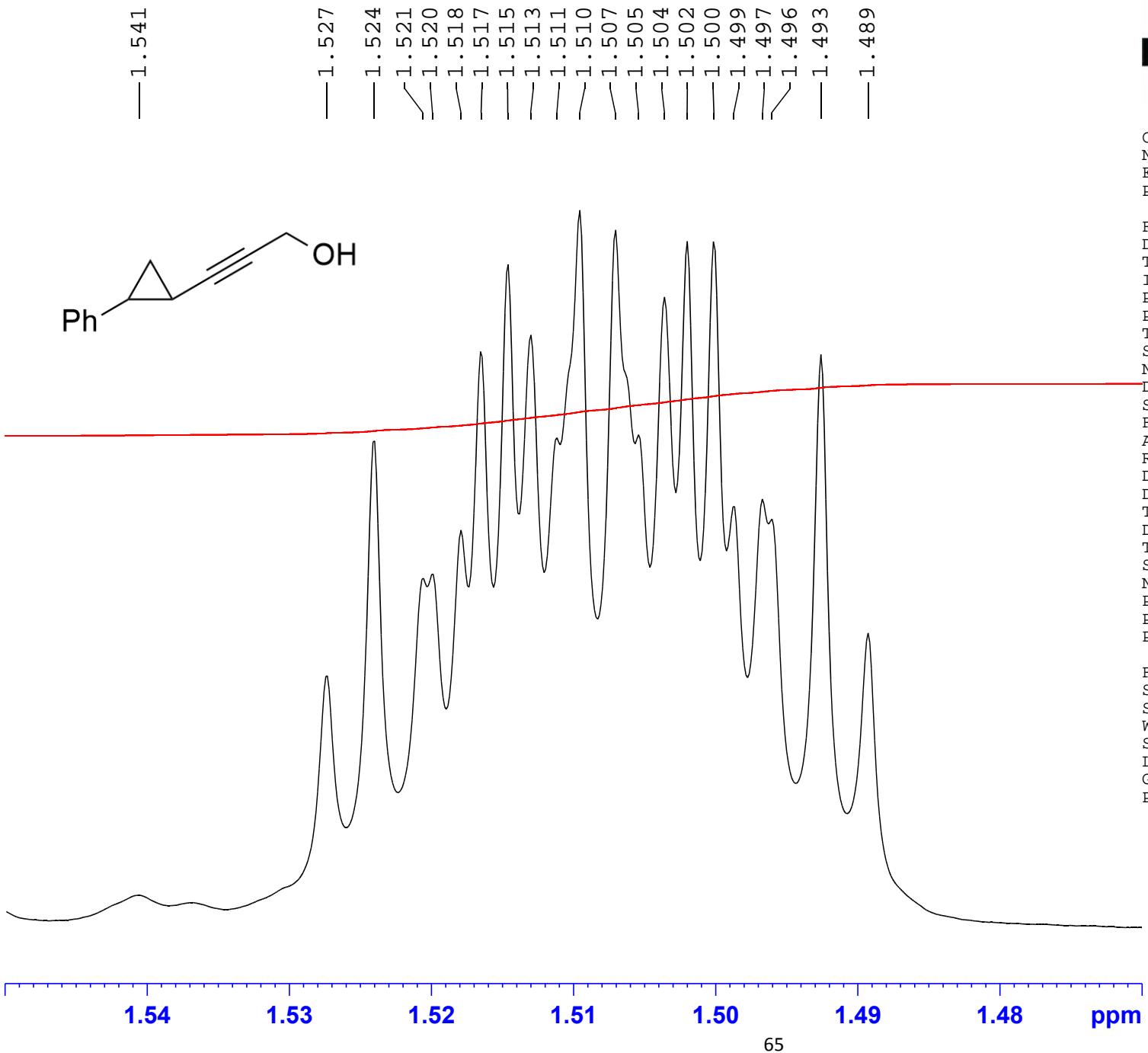
F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

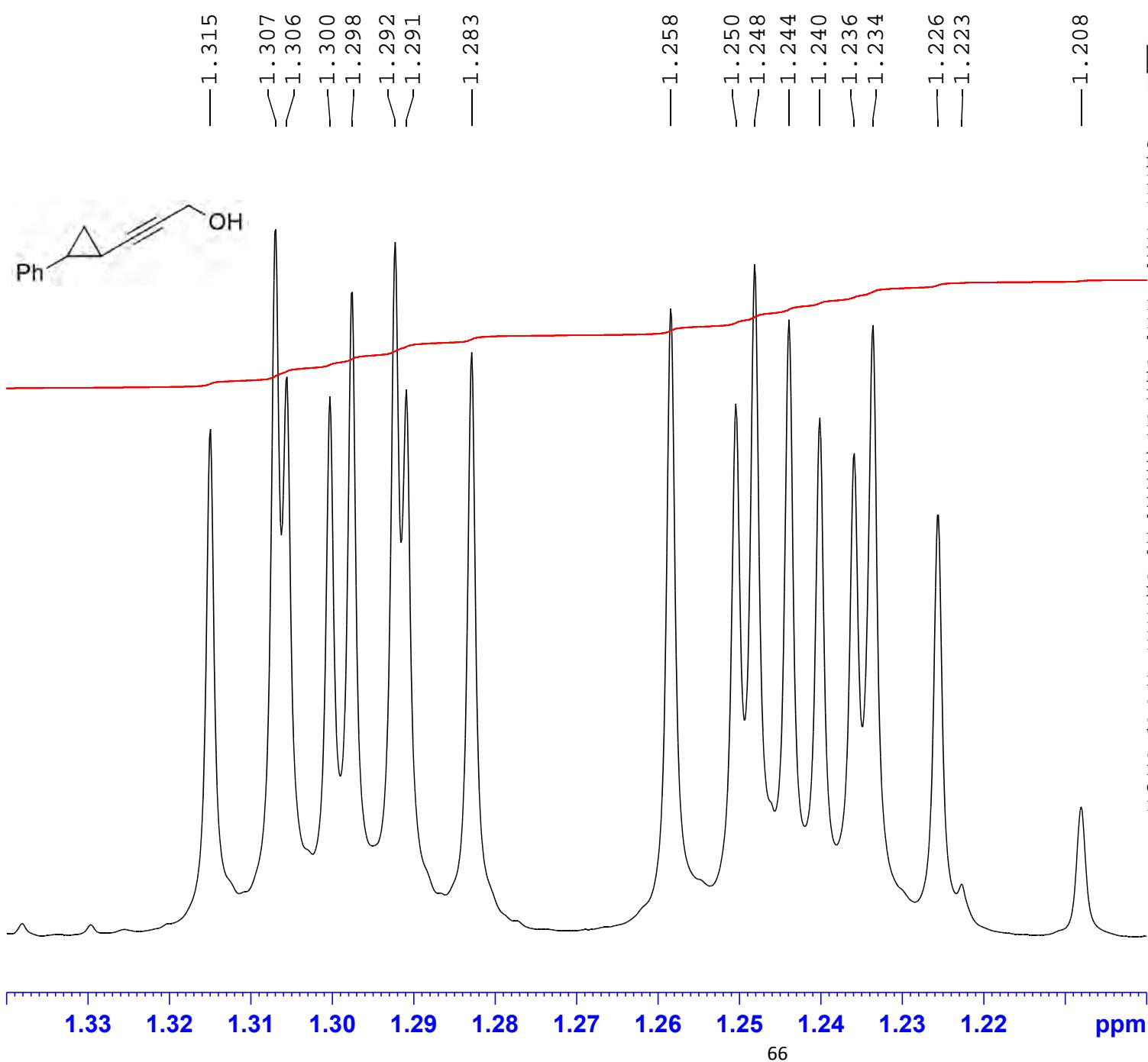
F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

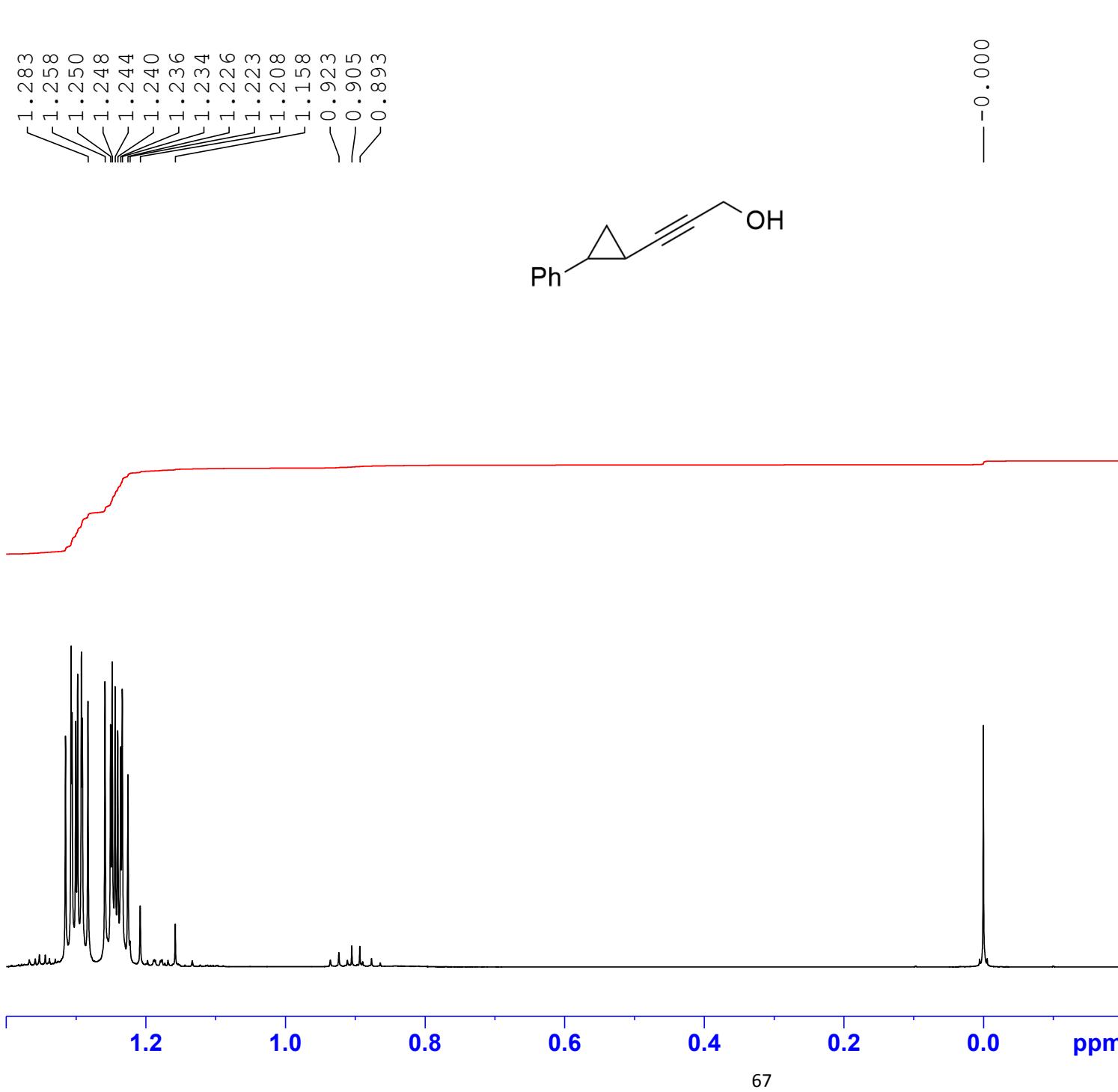


Current Data Parameters
 NAME LH-I-35
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211123
 Time 23.35 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 39.55
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300258 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

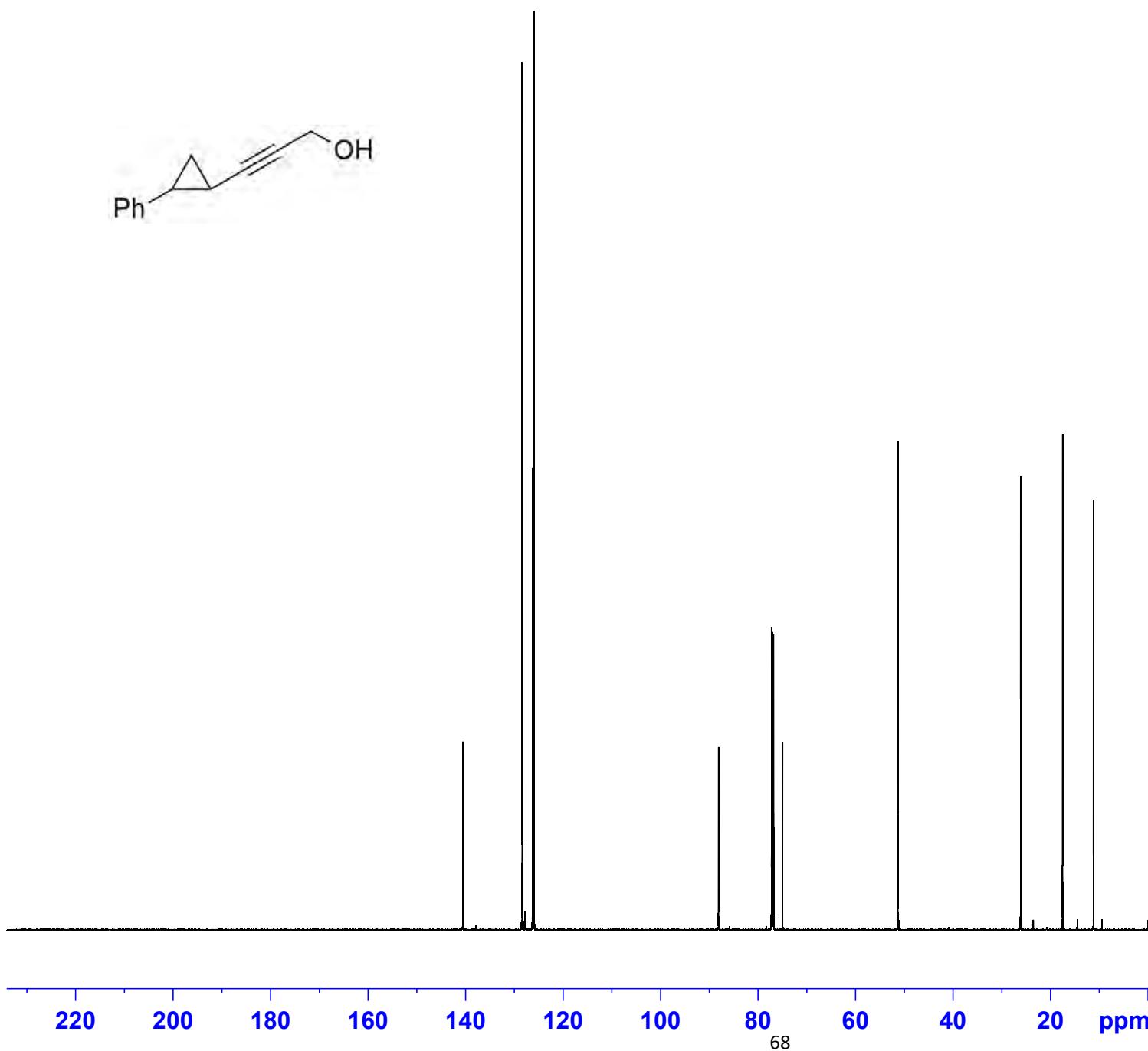
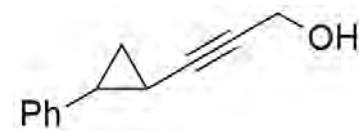
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1.248
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1.240
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1.234
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1.223
1.208
1.158
0.923
0.905
0.893



Current Data Parameters
NAME LH-I-35
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211123
Time 23.35 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 39.55
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300258 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters

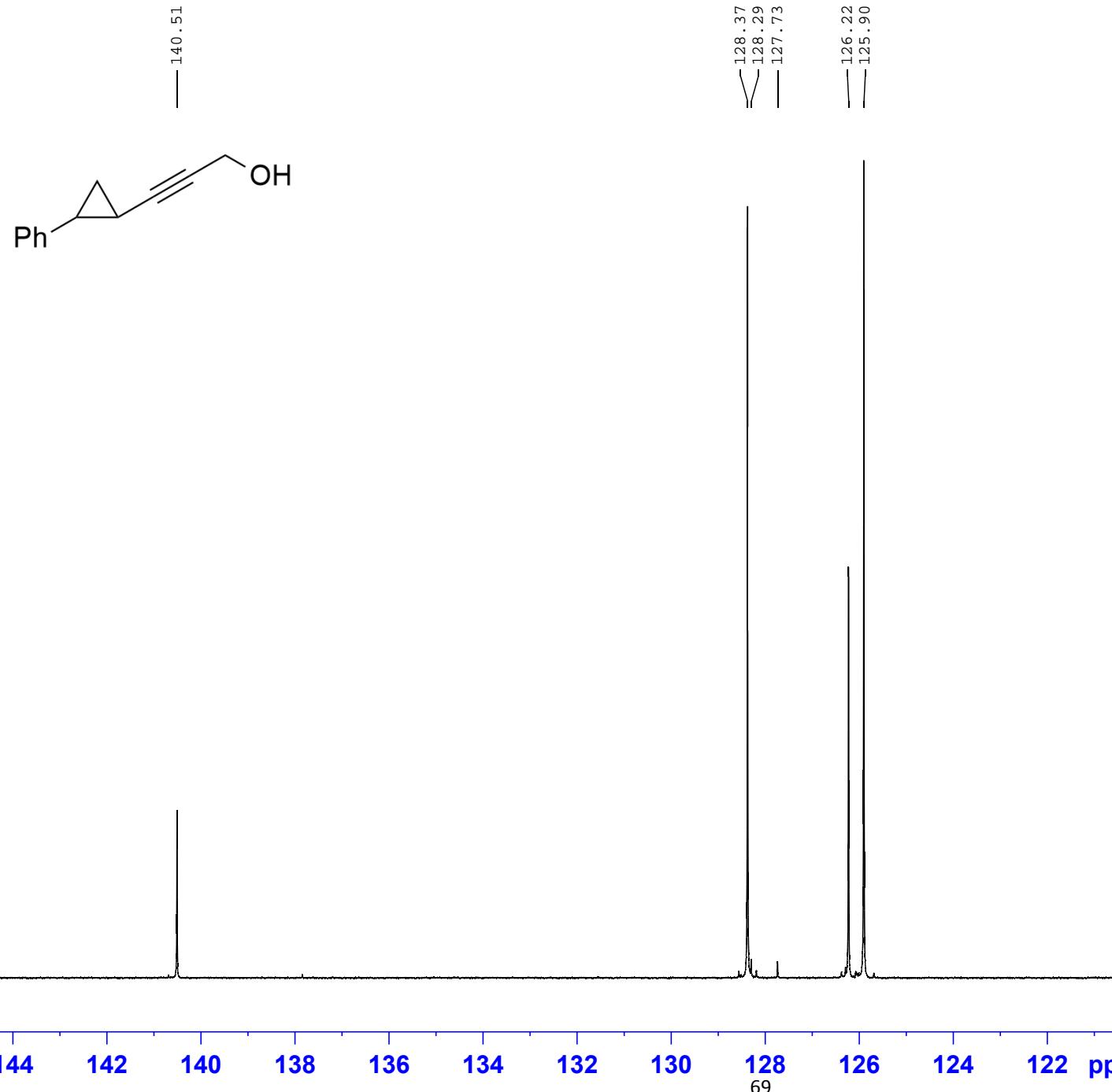
NAME LH-I-35
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters

Date_ 20211124
Time 1.04 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 2000
DS 4
SWH 37500.000 Hz
FIDRES 0.630019 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 6.53 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 150.9194058 MHz
NUC1 ¹³C
P0 3.93 usec
P1 11.80 usec
PLW1 85.00000000 W
SFO2 600.1324005 MHz
NUC2 ^{1H}
CPDPRG[2 waltz64
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W
PLW13 0.28836000 W

F2 - Processing parameters

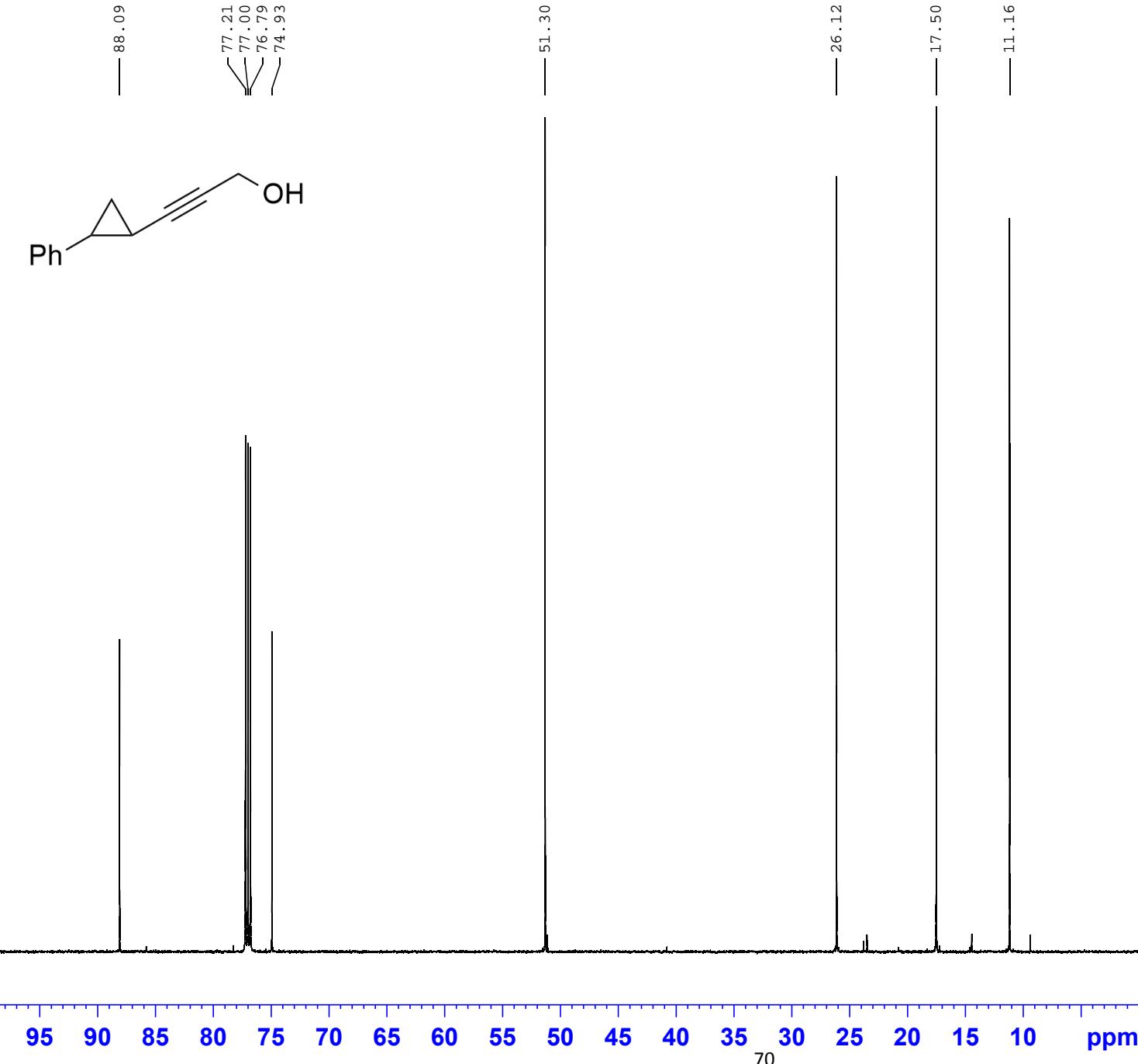
SI 131072
SF 150.9028224 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
 NAME LH-I-35
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 1.04 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

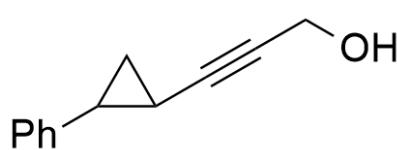
F2 - Processing parameters
 SI 131072
 SF 150.9028224 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



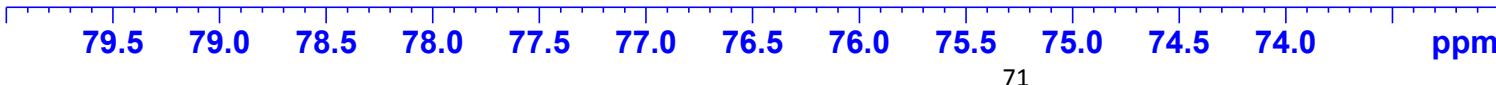
Current Data Parameters
 NAME LH-I-35
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 1.04 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028224 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



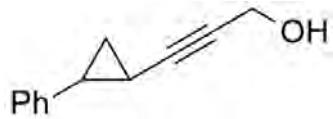
77.21 77.00 76.79 74.93



Current Data Parameters
 NAME LH-I-35
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 1.04 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

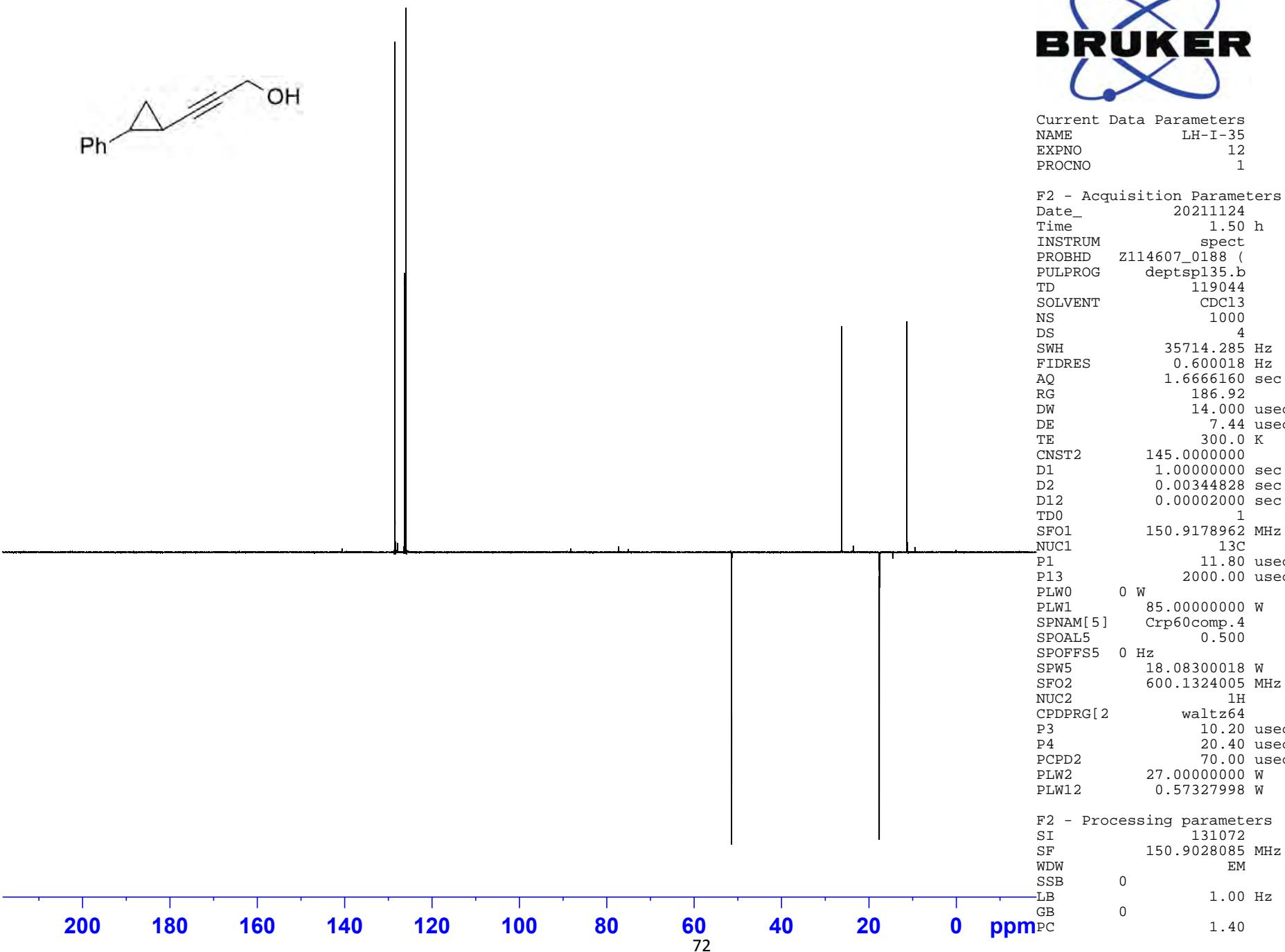
F2 - Processing parameters
 SI 131072
 SF 150.9028224 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-35
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 1.50 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1
 SFO1 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFSS5 0 Hz
 SPW5 18.08300018 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

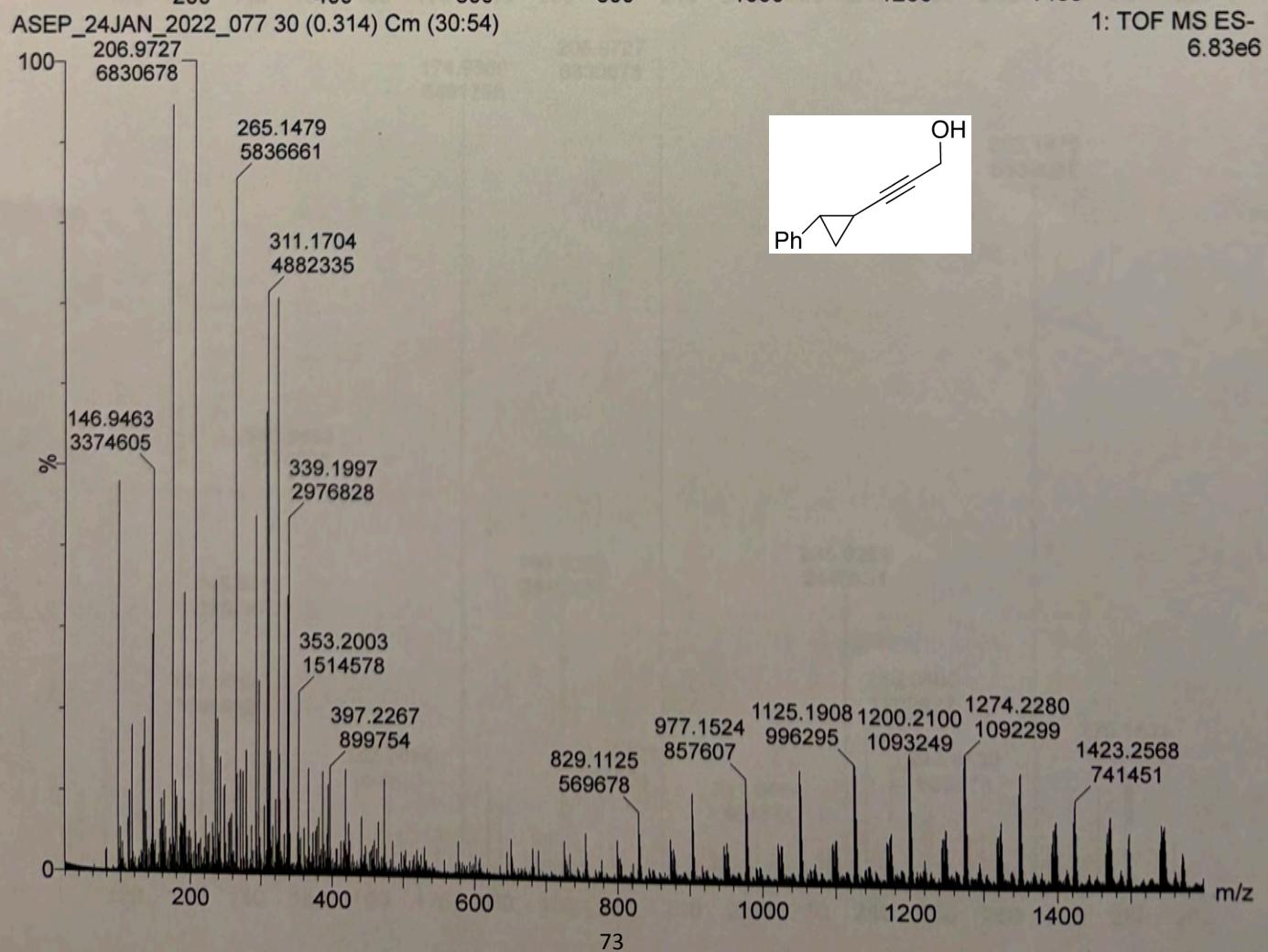
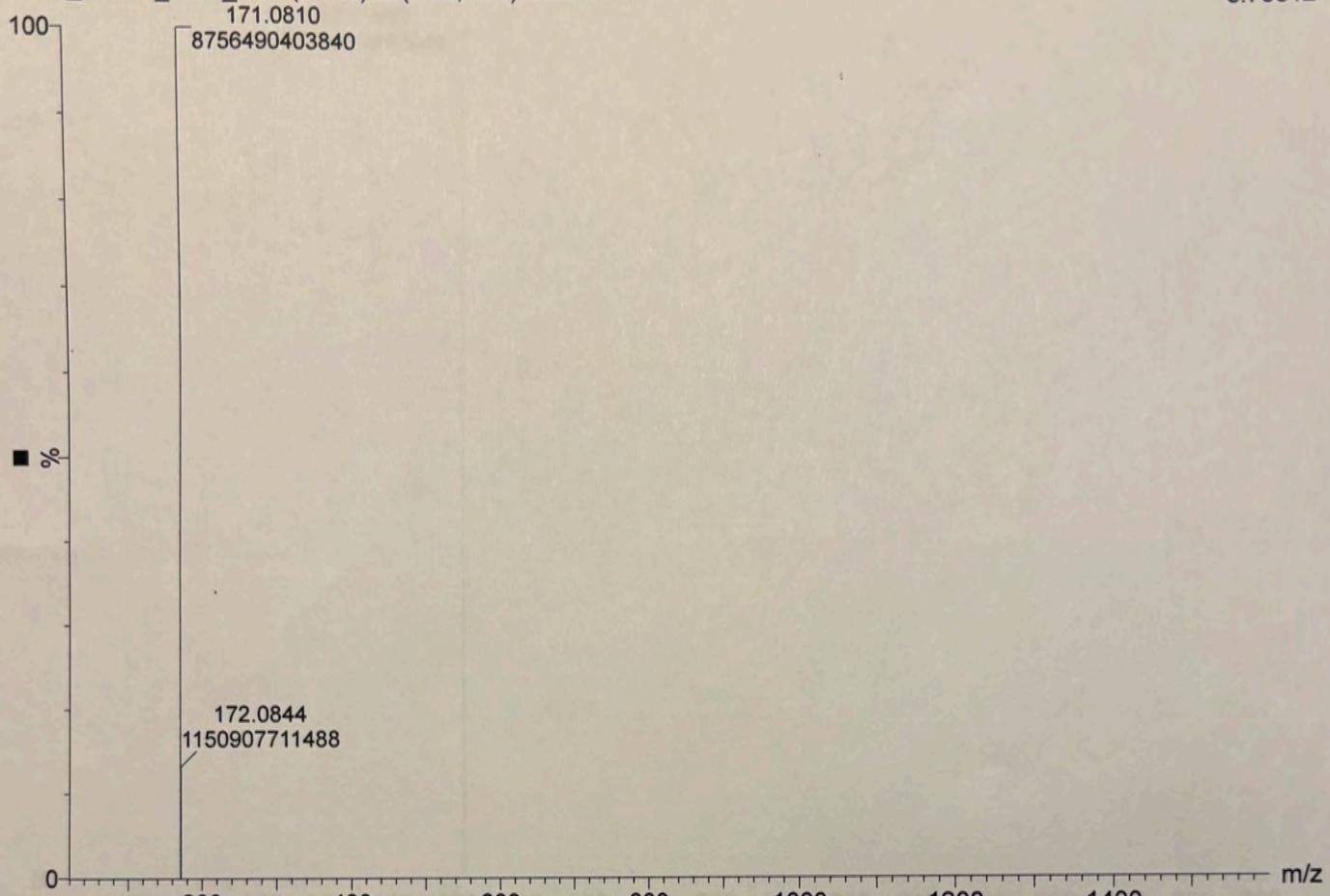
F2 - Processing parameters
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 SF 150.9028085 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

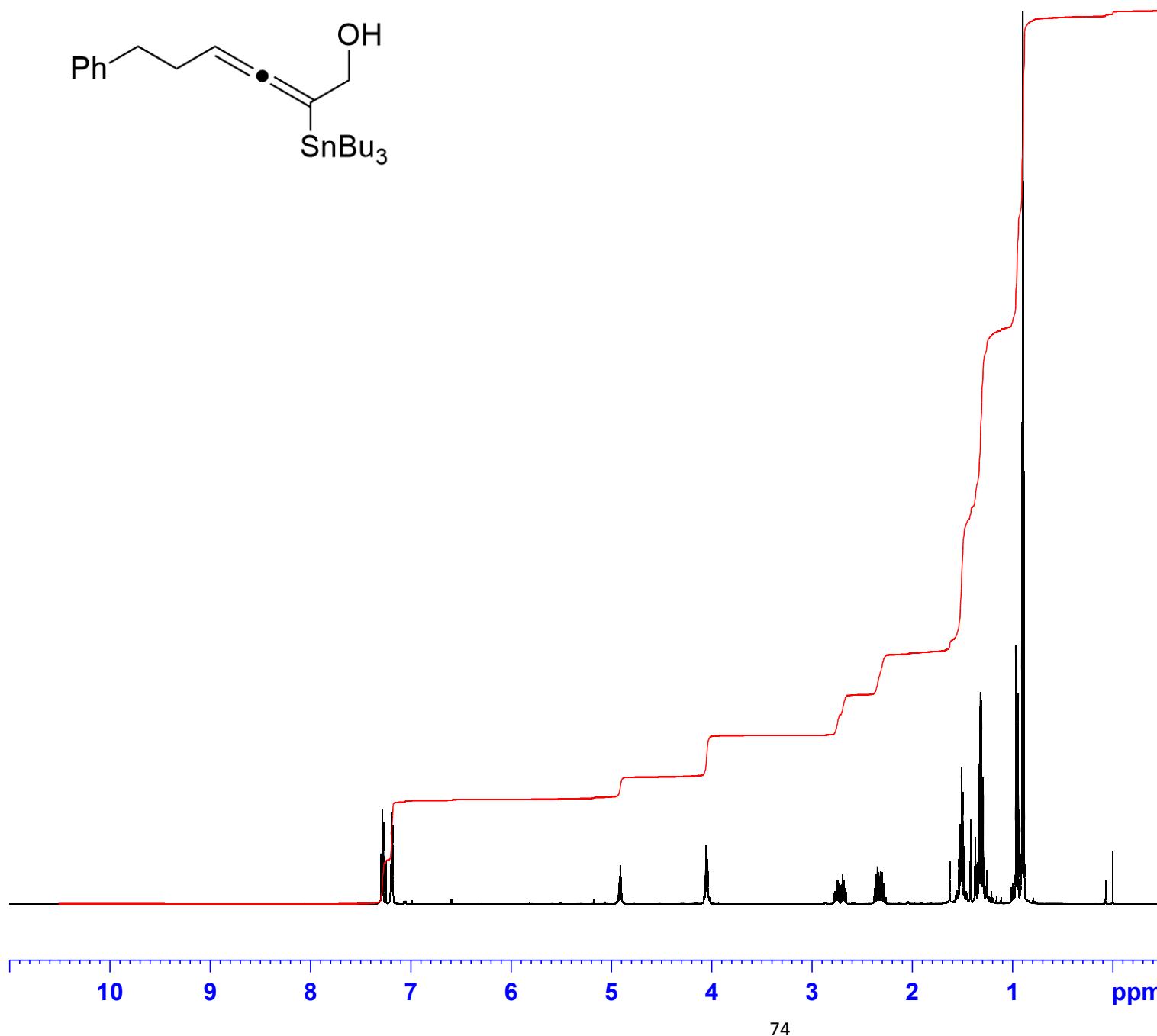
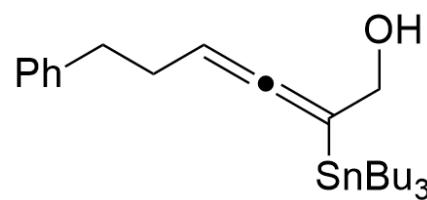


LH-1-35

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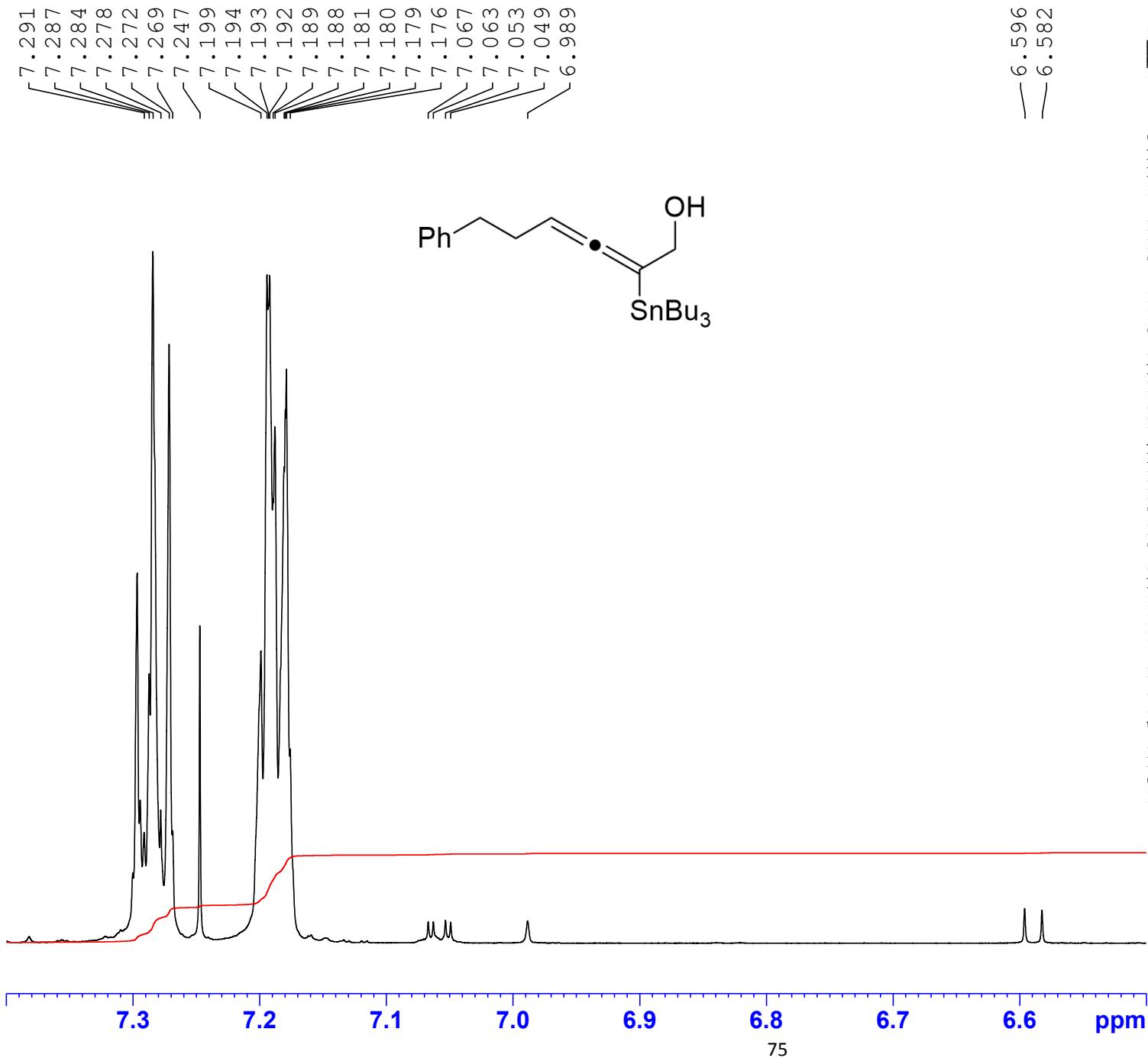




Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

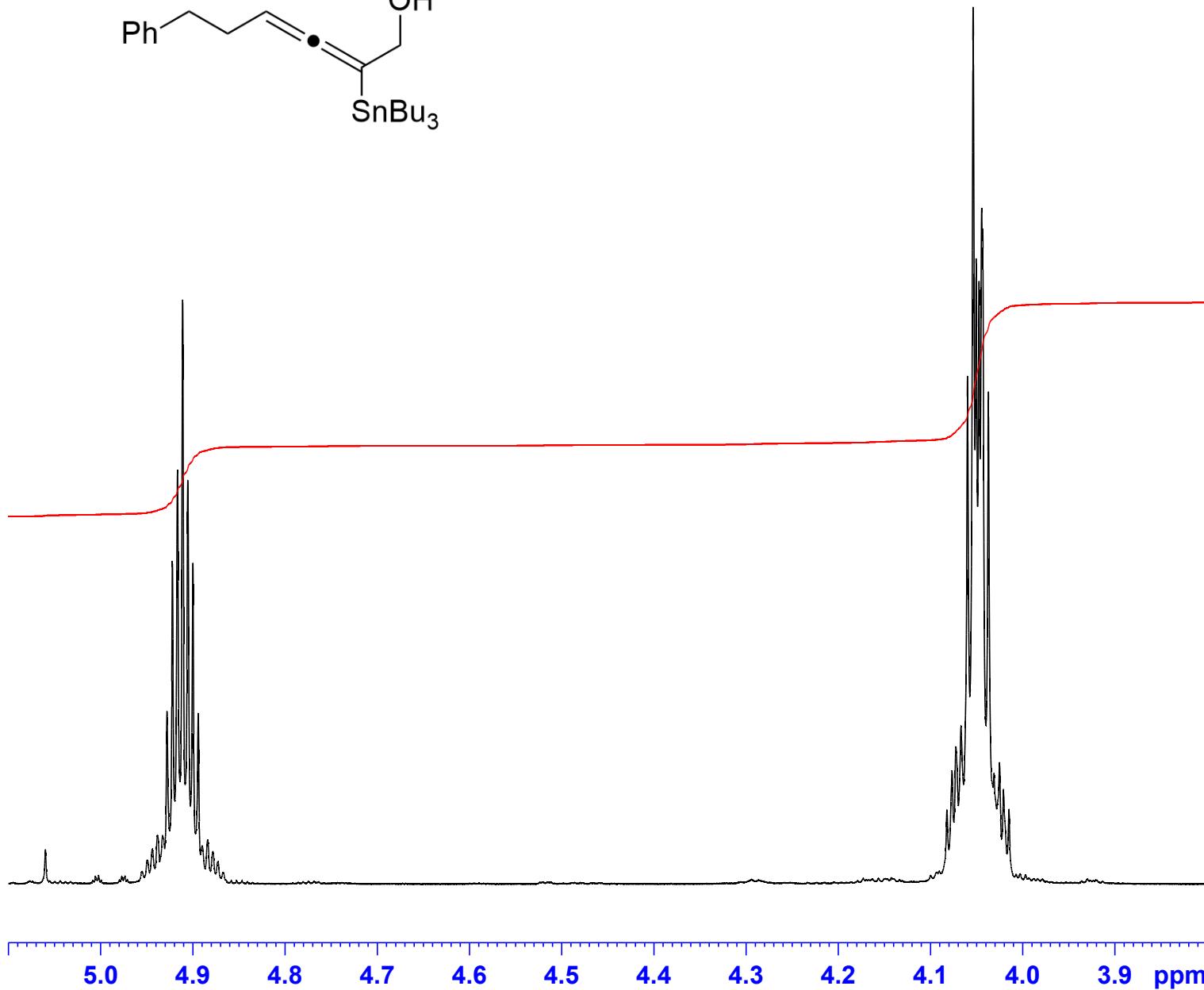
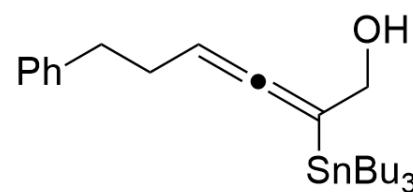
F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl₃
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 ¹H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



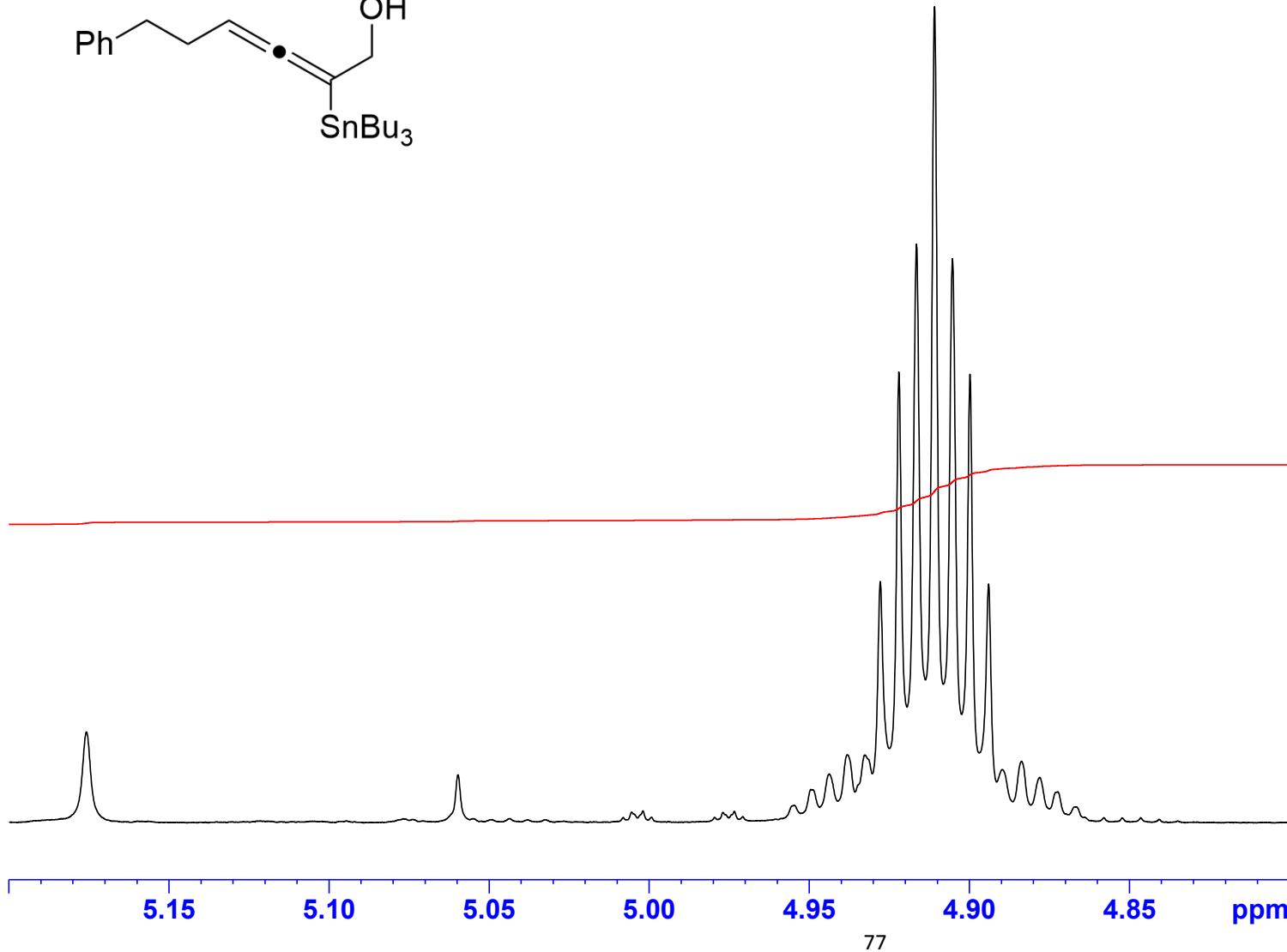
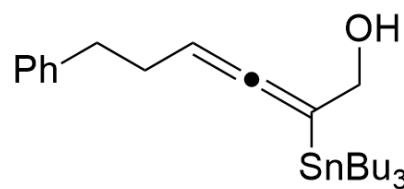
Current Data Parameters
NAME LH-I-46
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211216
Time 14.18 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 27.87
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

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PC 1.00

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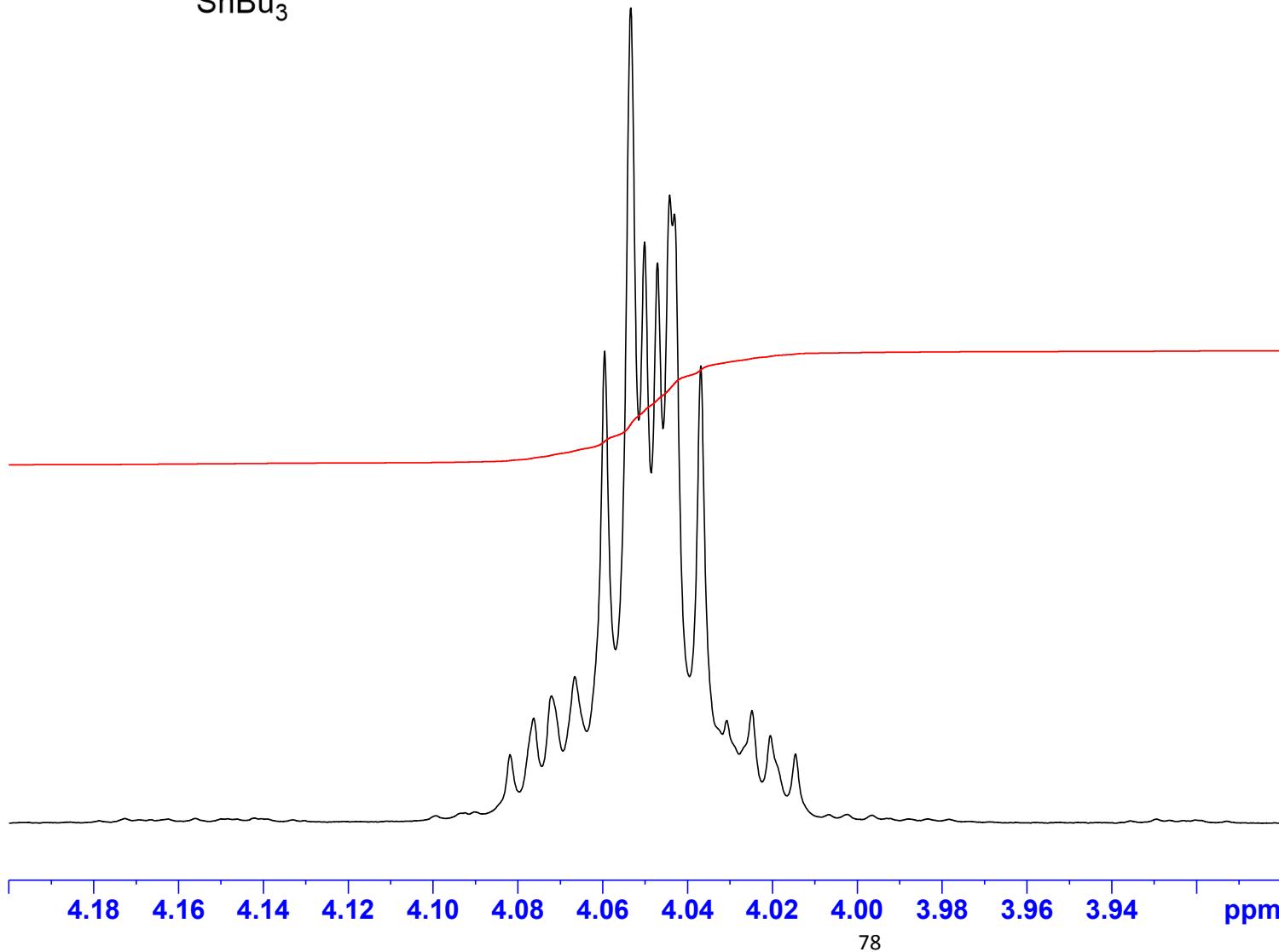
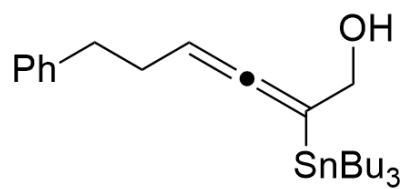
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Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

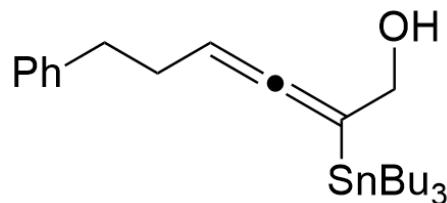
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 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

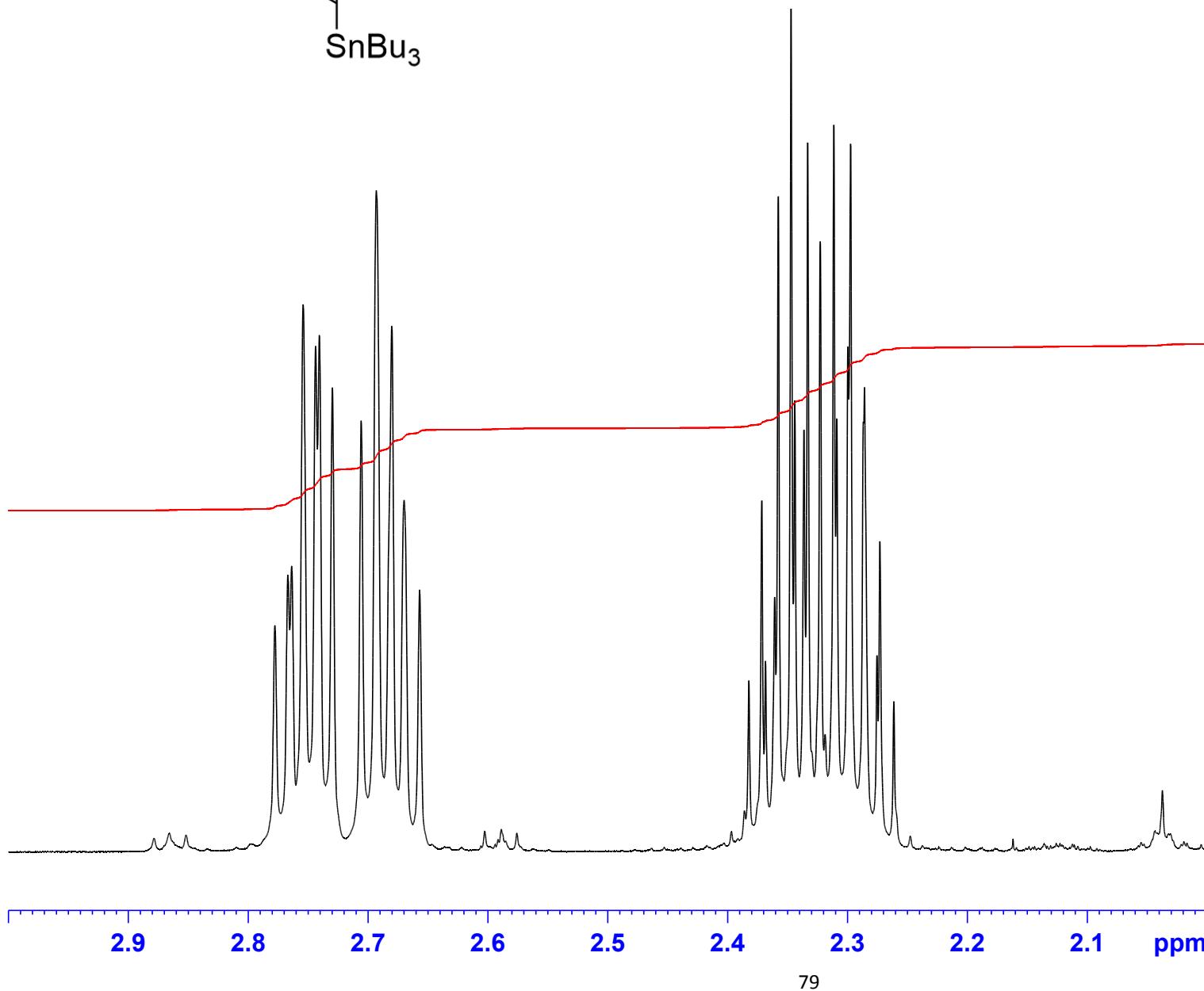
F2 - Processing parameters
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 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

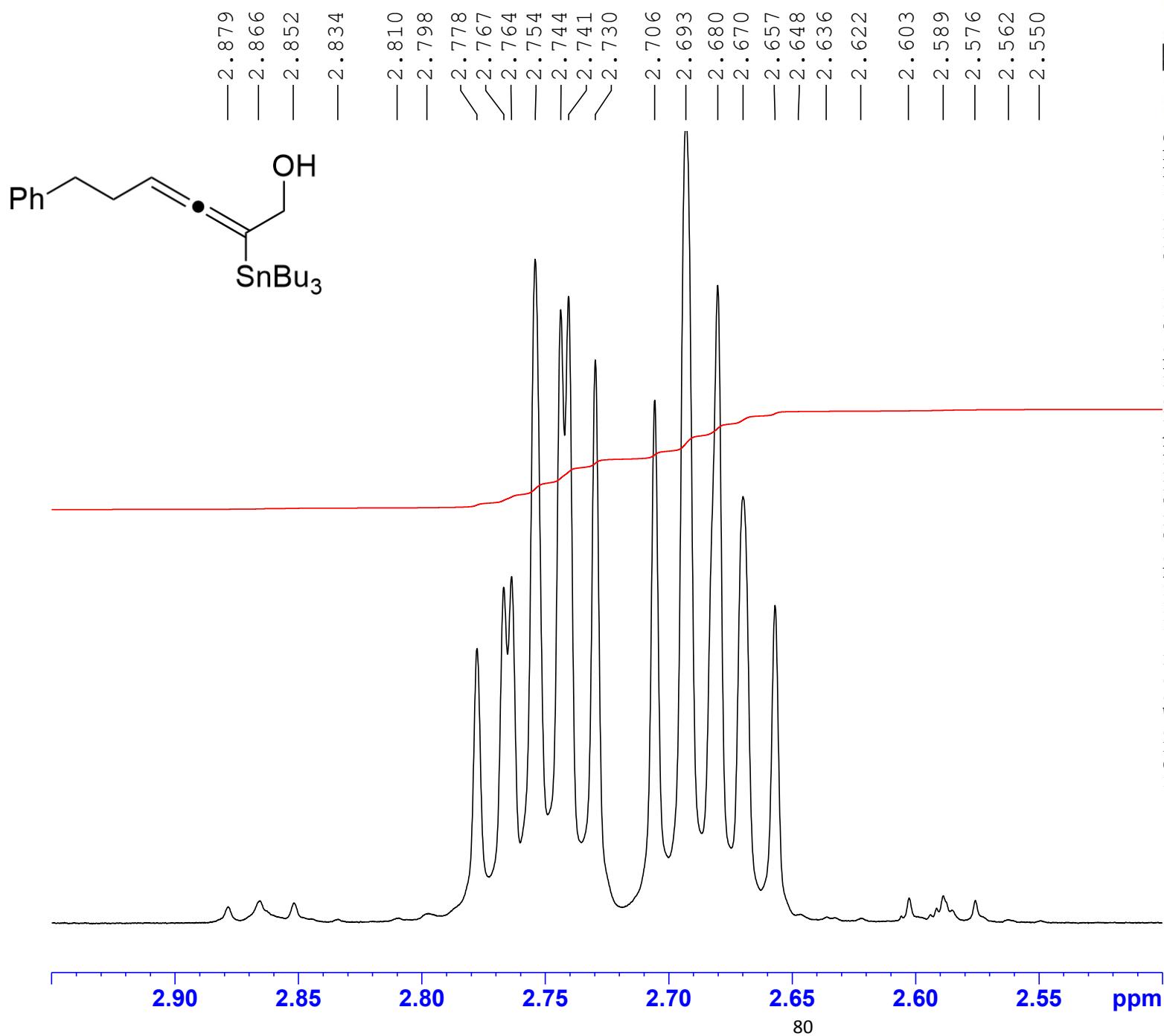


Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.1000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

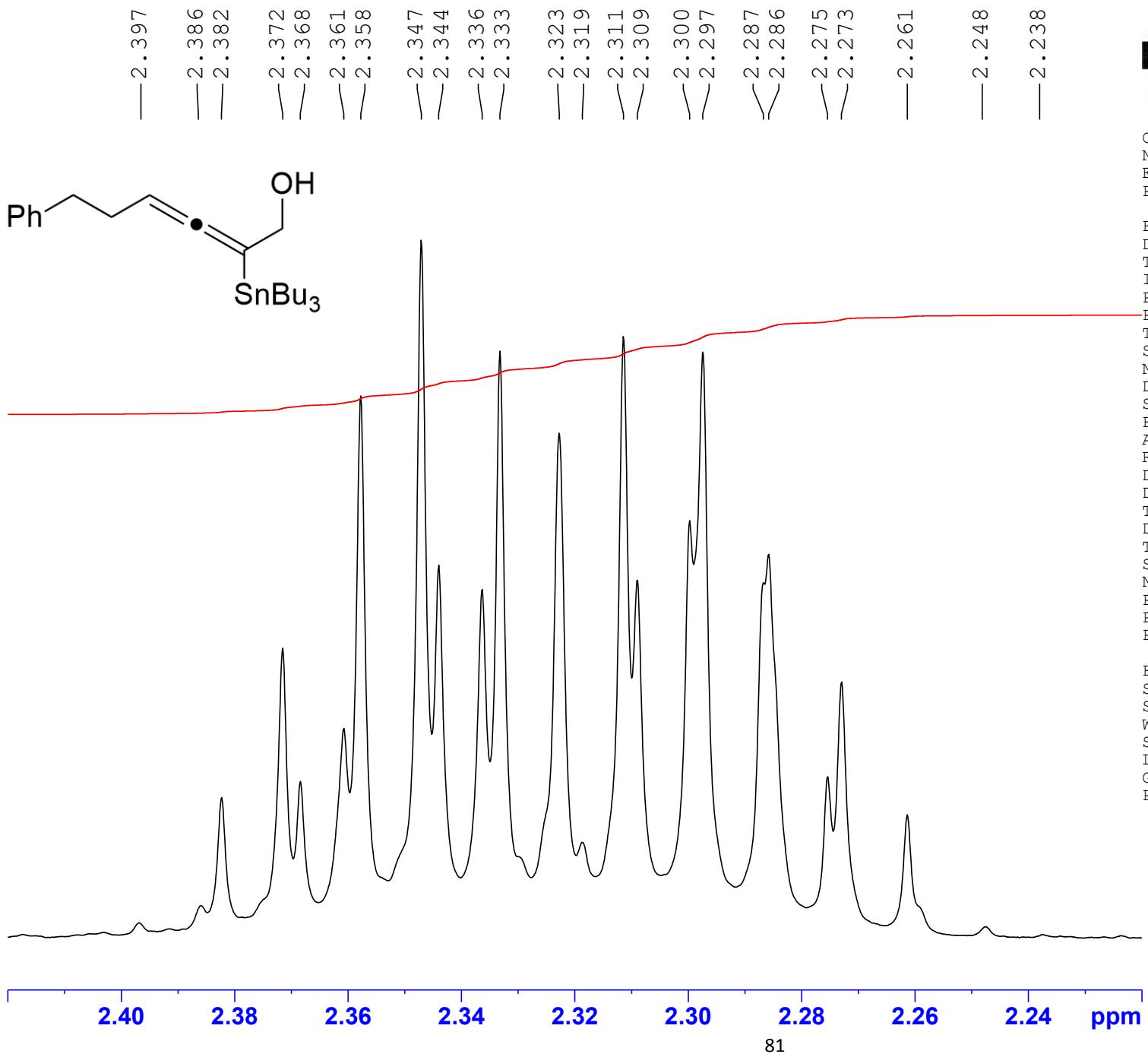




Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

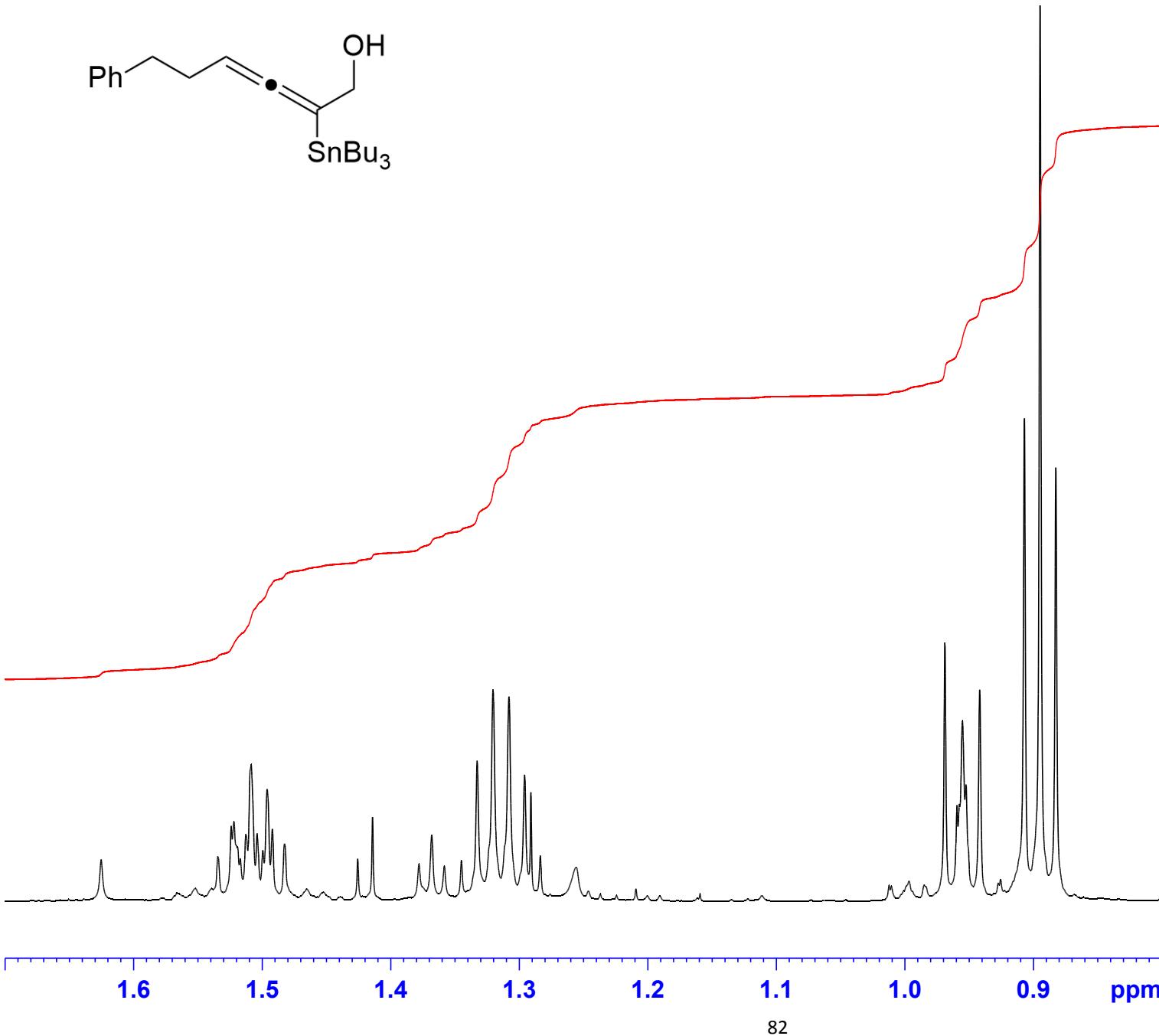
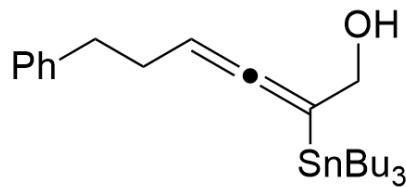
F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

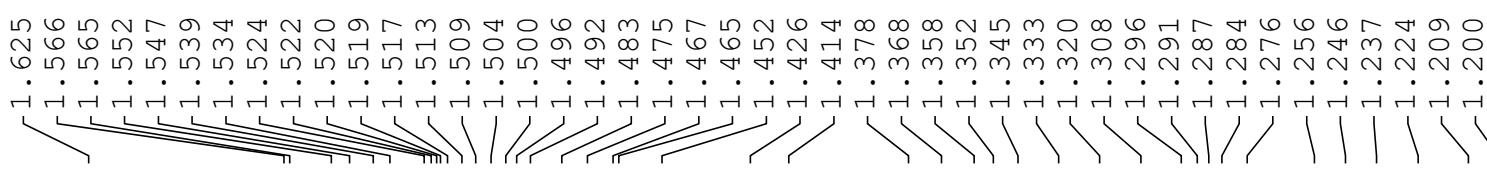
F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

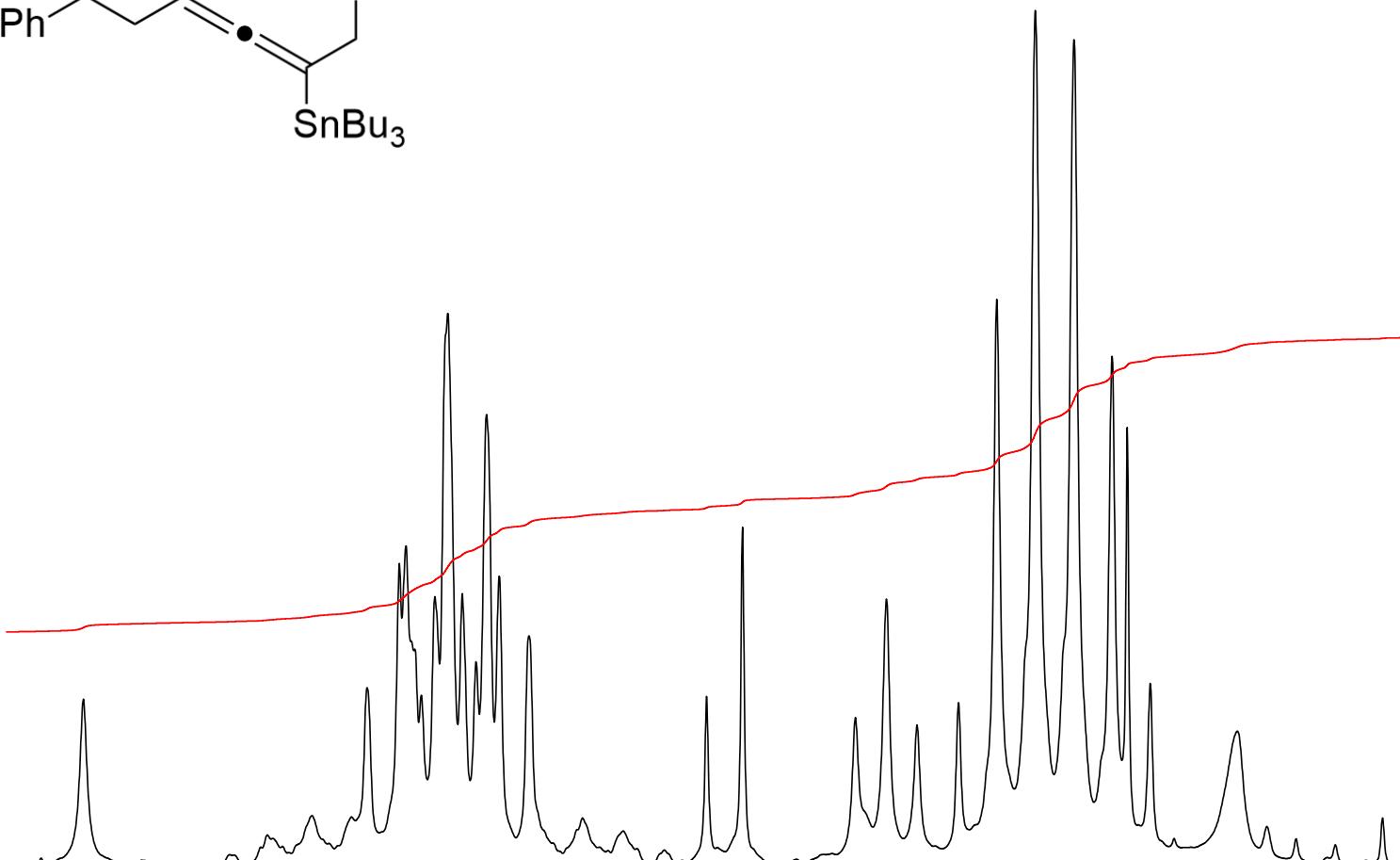
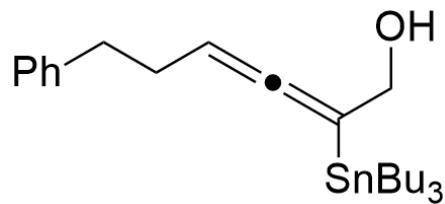
F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

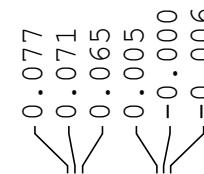
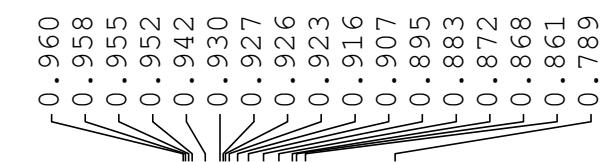


Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

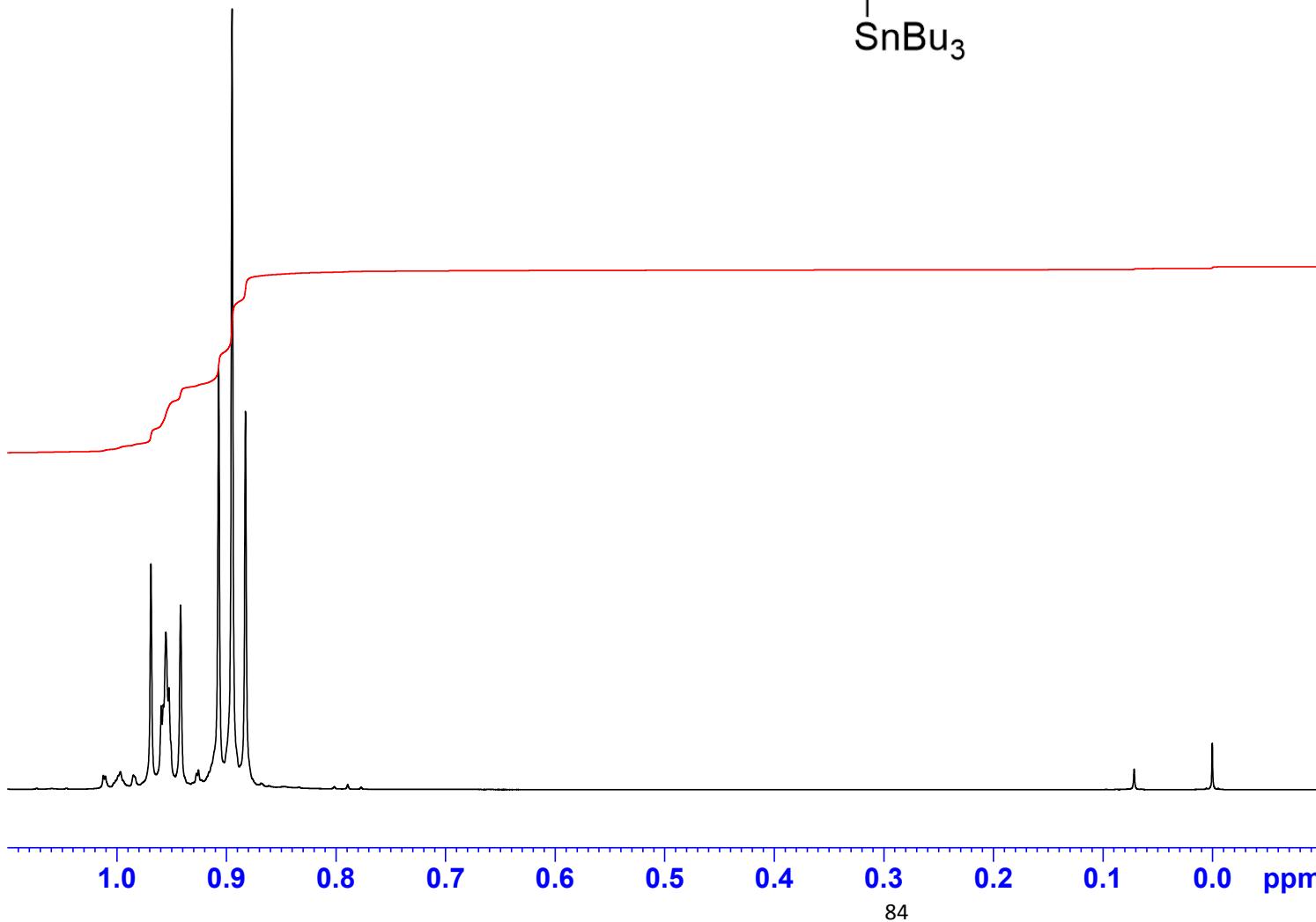
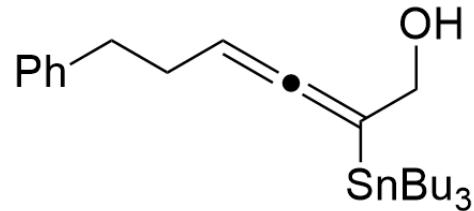


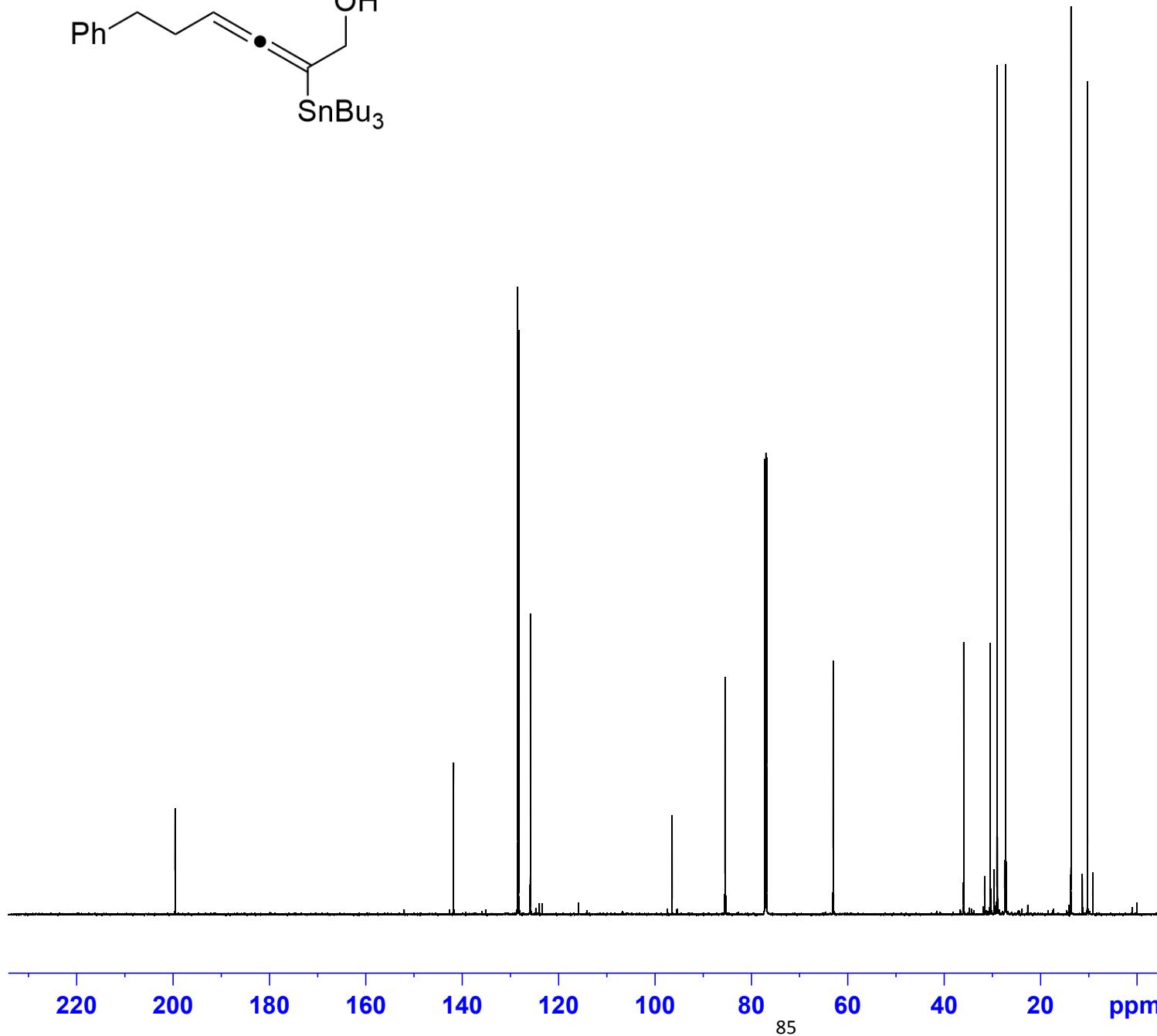
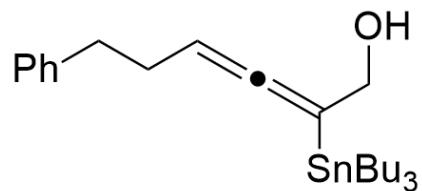


Current Data Parameters
 NAME LH-I-46
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 27.87
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300217 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

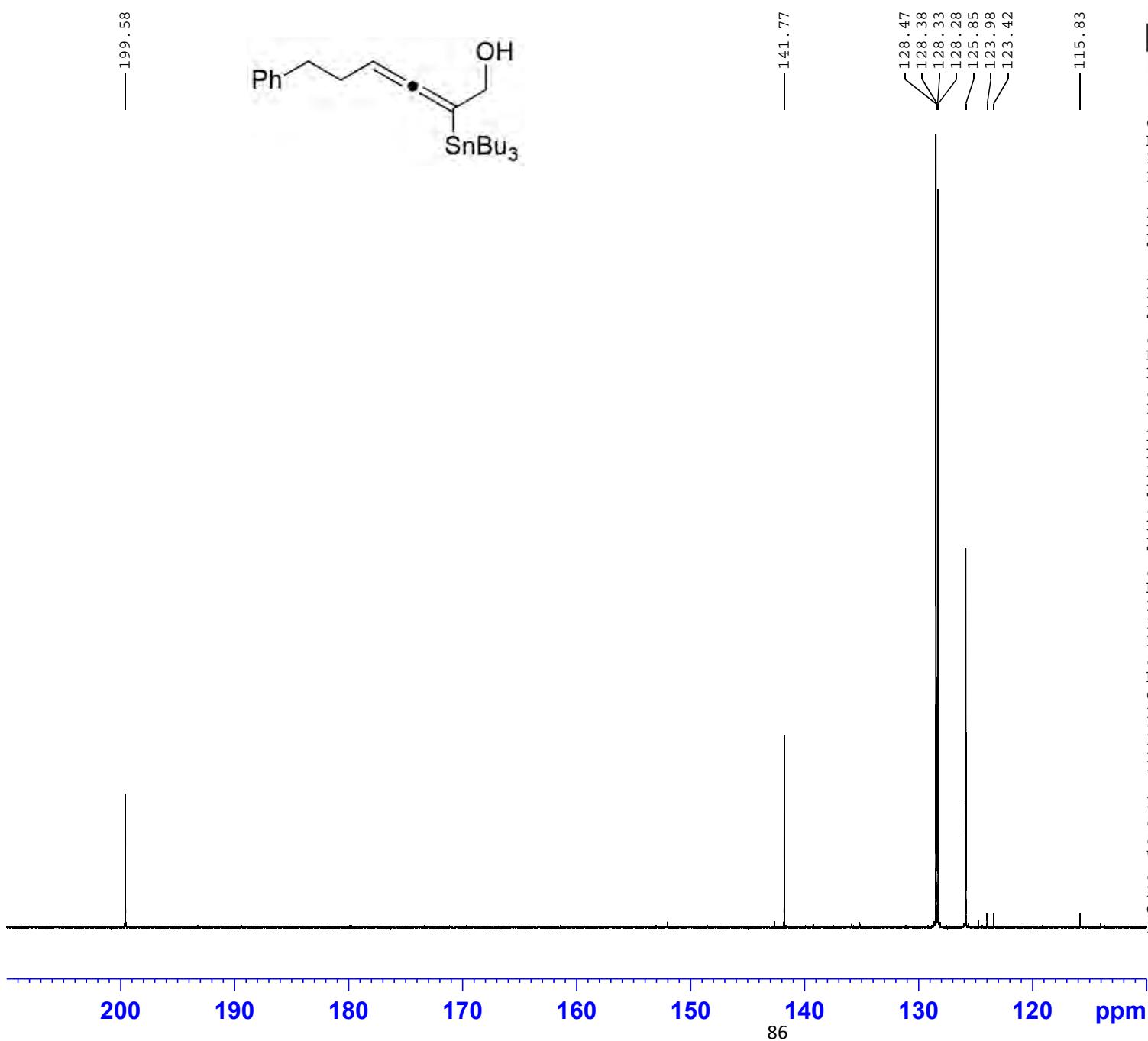




Current Data Parameters
 NAME LH-1-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SF01 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SF02 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

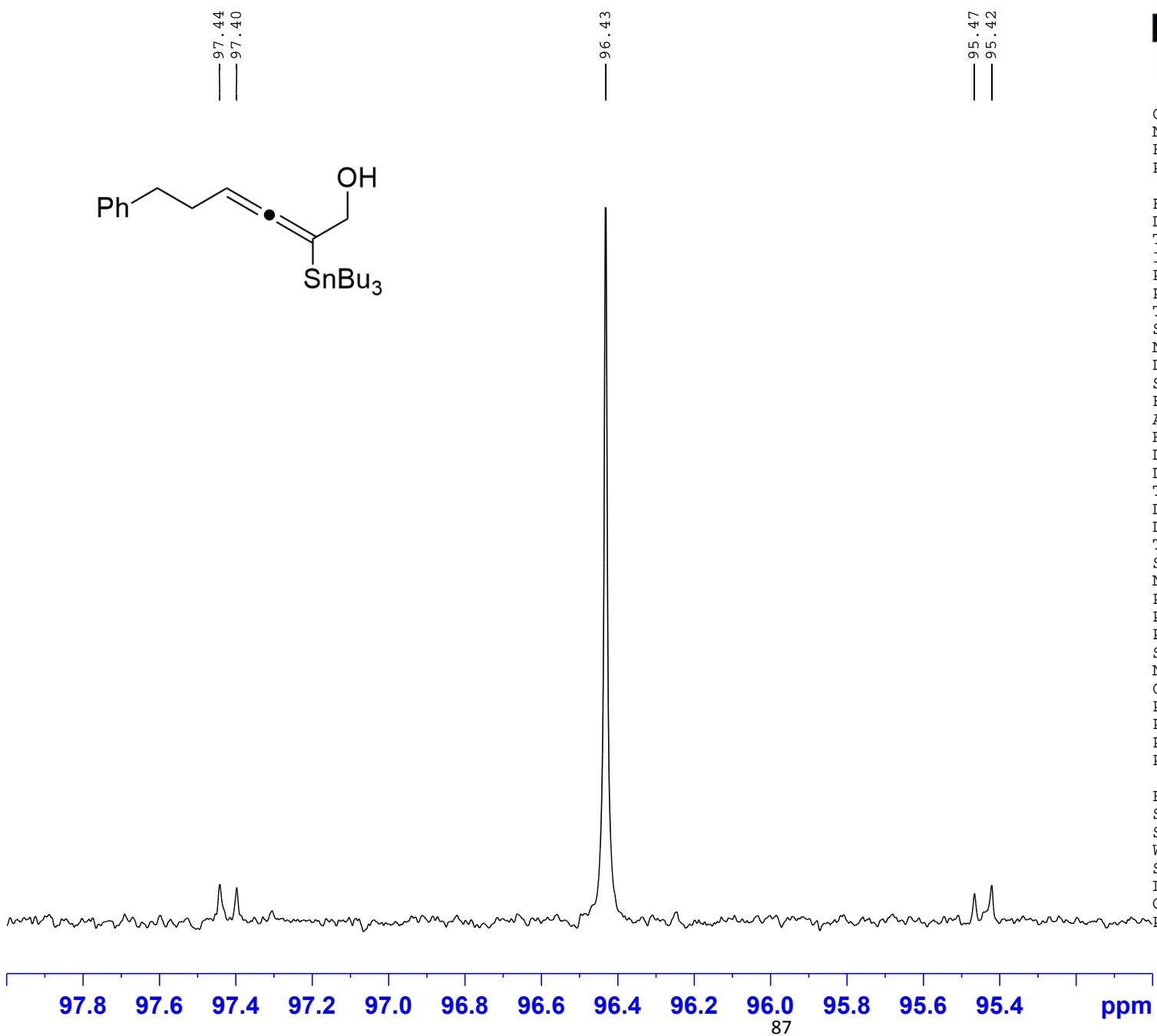
F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

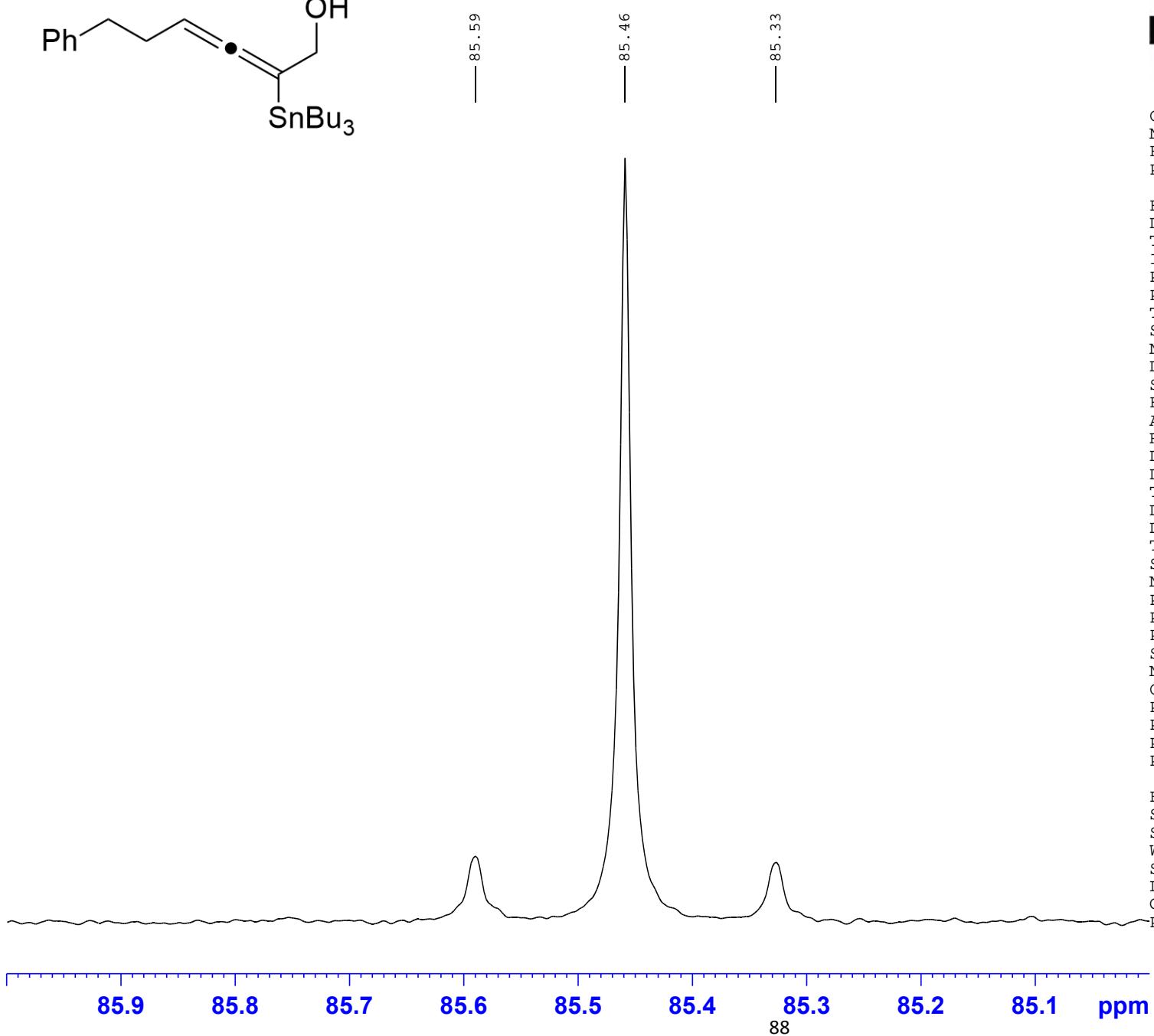
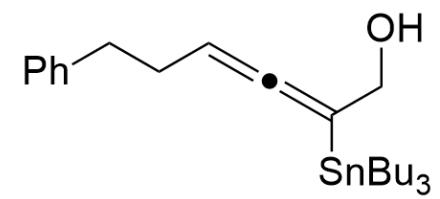
F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

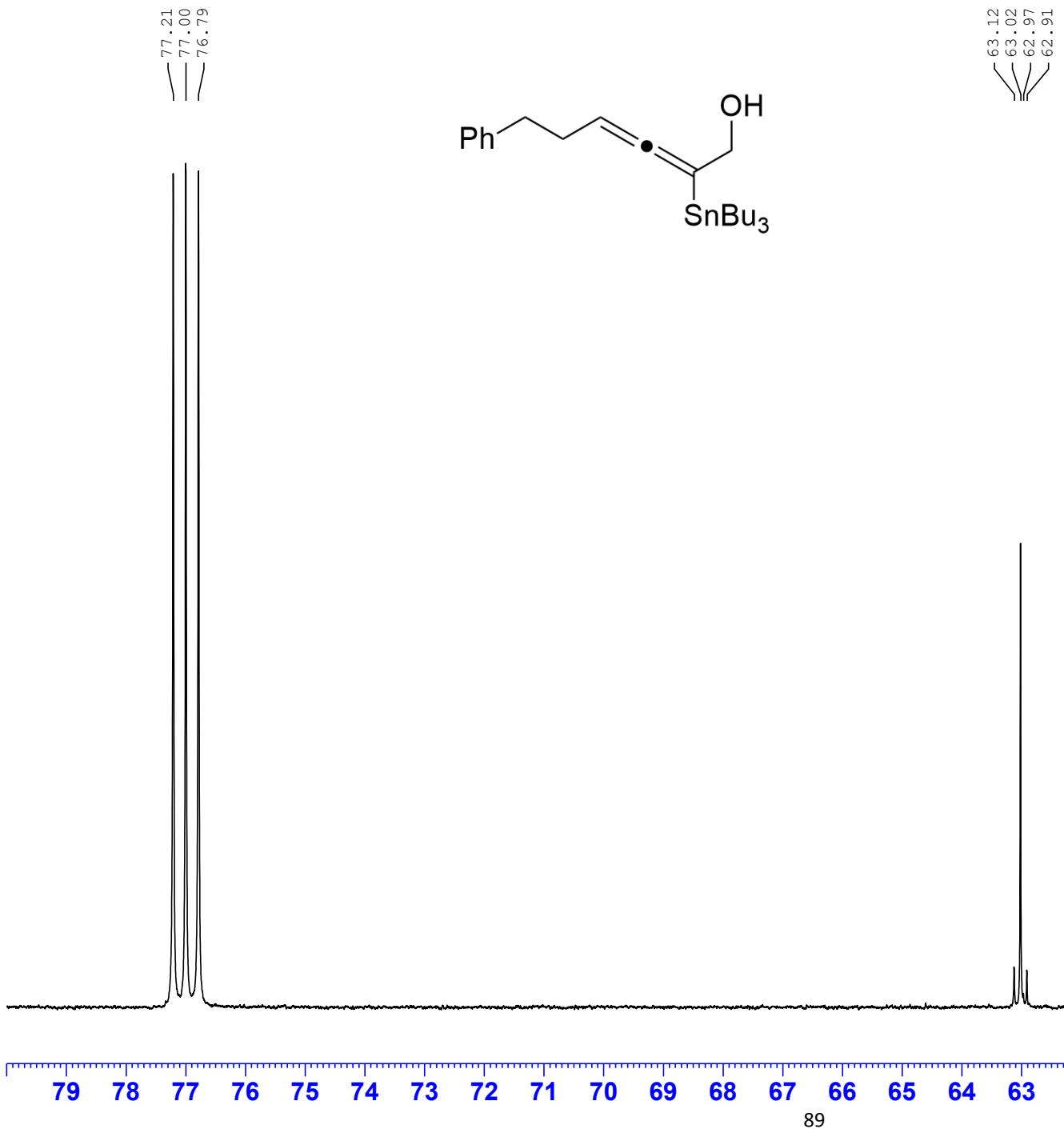
F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

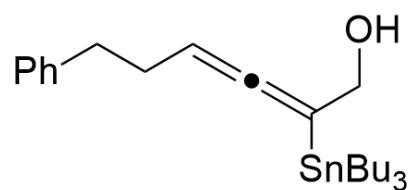
F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



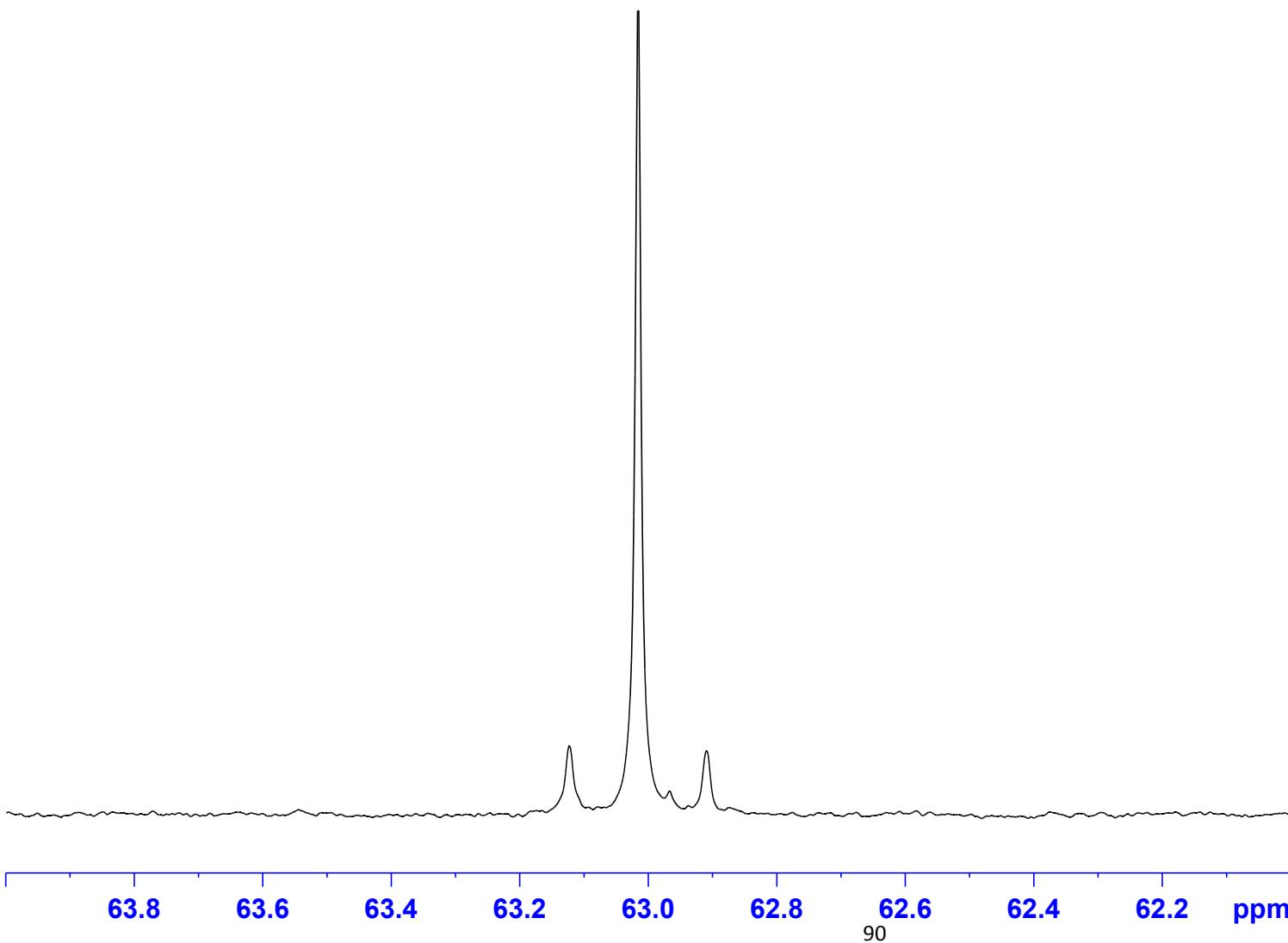
Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



— 63.12
 — 63.02
 — 62.97
 — 62.91



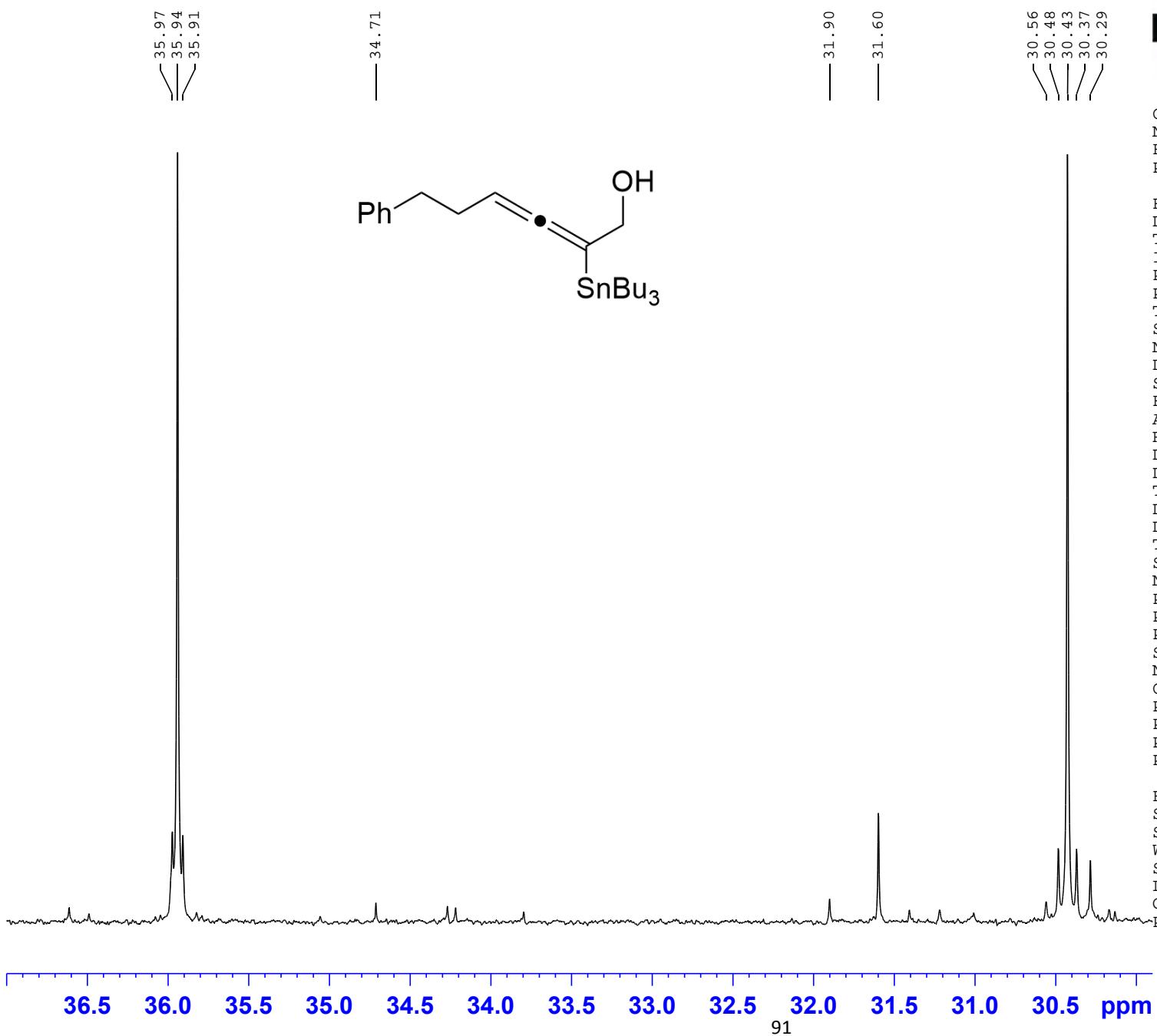
Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters

SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

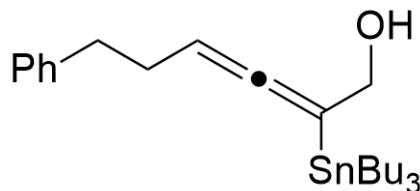


Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

29.13
29.09
29.06
28.99
28.92
28.87



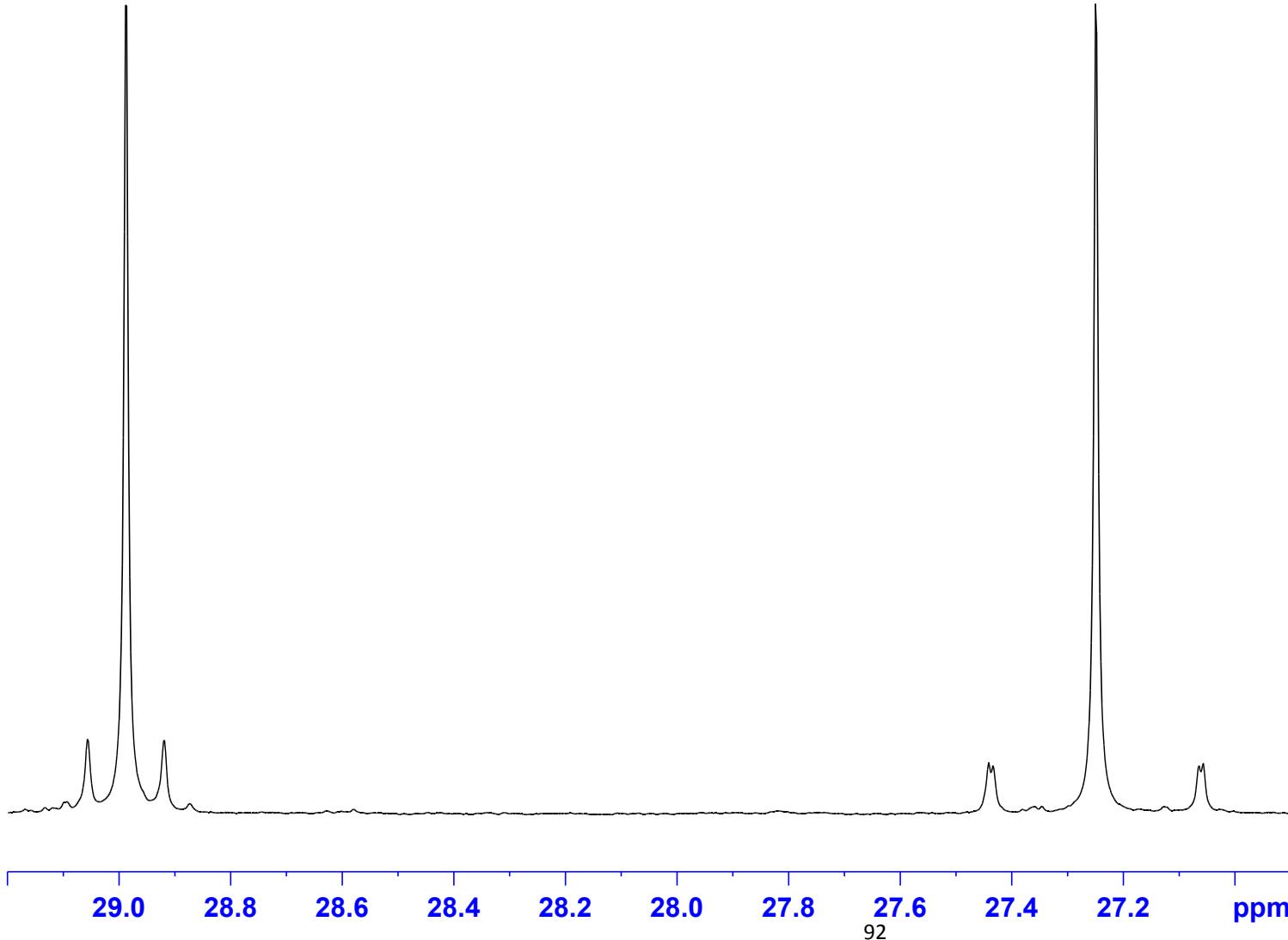
27.44
27.43
27.36
27.35
27.25
27.13
27.06
27.06

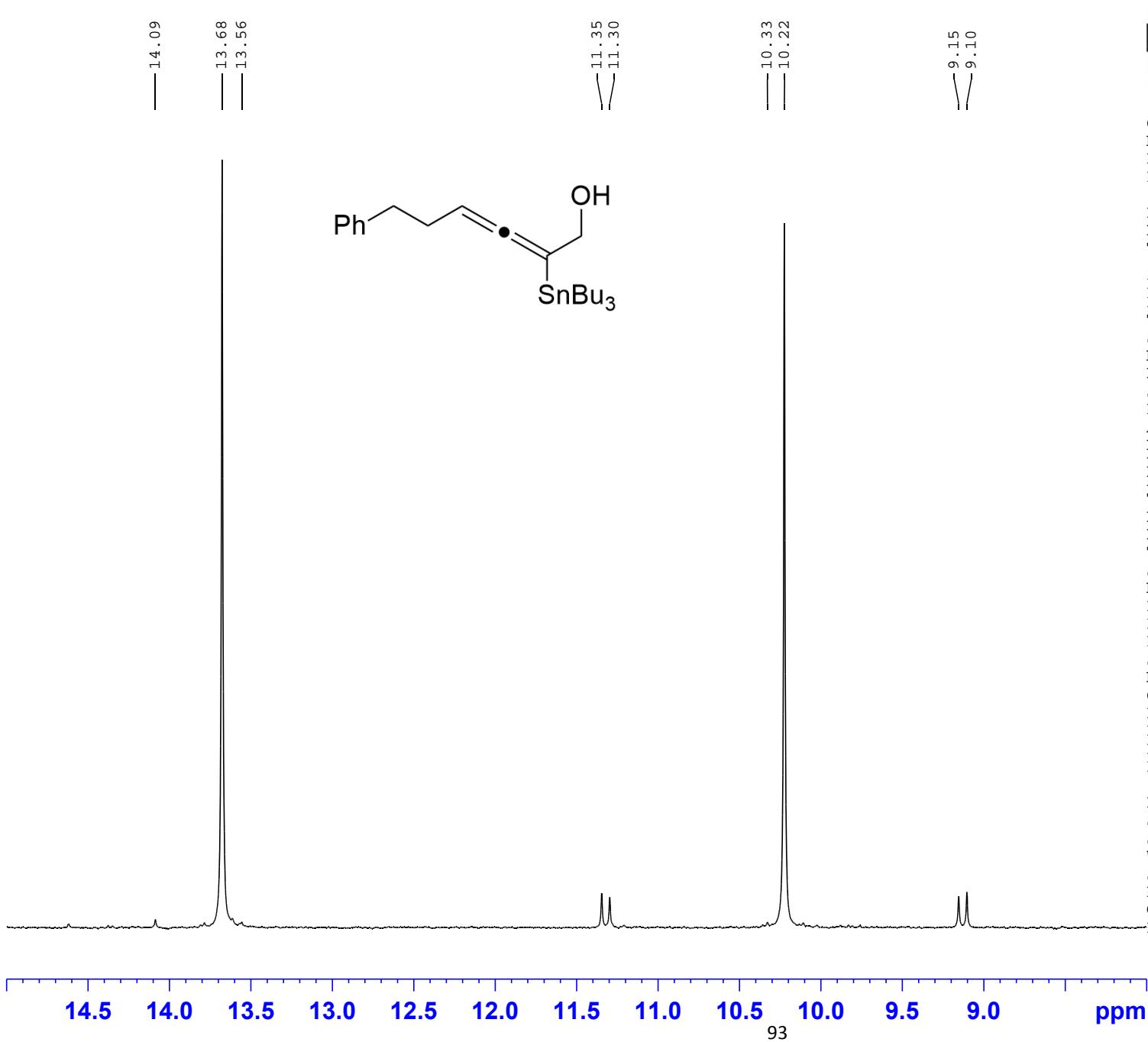


Current Data Parameters
NAME LH-I-46
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211216
Time 16.10 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 2500
DS 4
SWH 37500.000 Hz
FIDRES 0.630019 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 6.53 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 150.9194058 MHz
NUC1 13C
P0 3.93 usec
P1 11.80 usec
PLW1 85.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2 waltz64
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W
PLW13 0.28836000 W

F2 - Processing parameters
SI 131072
SF 150.9028155 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

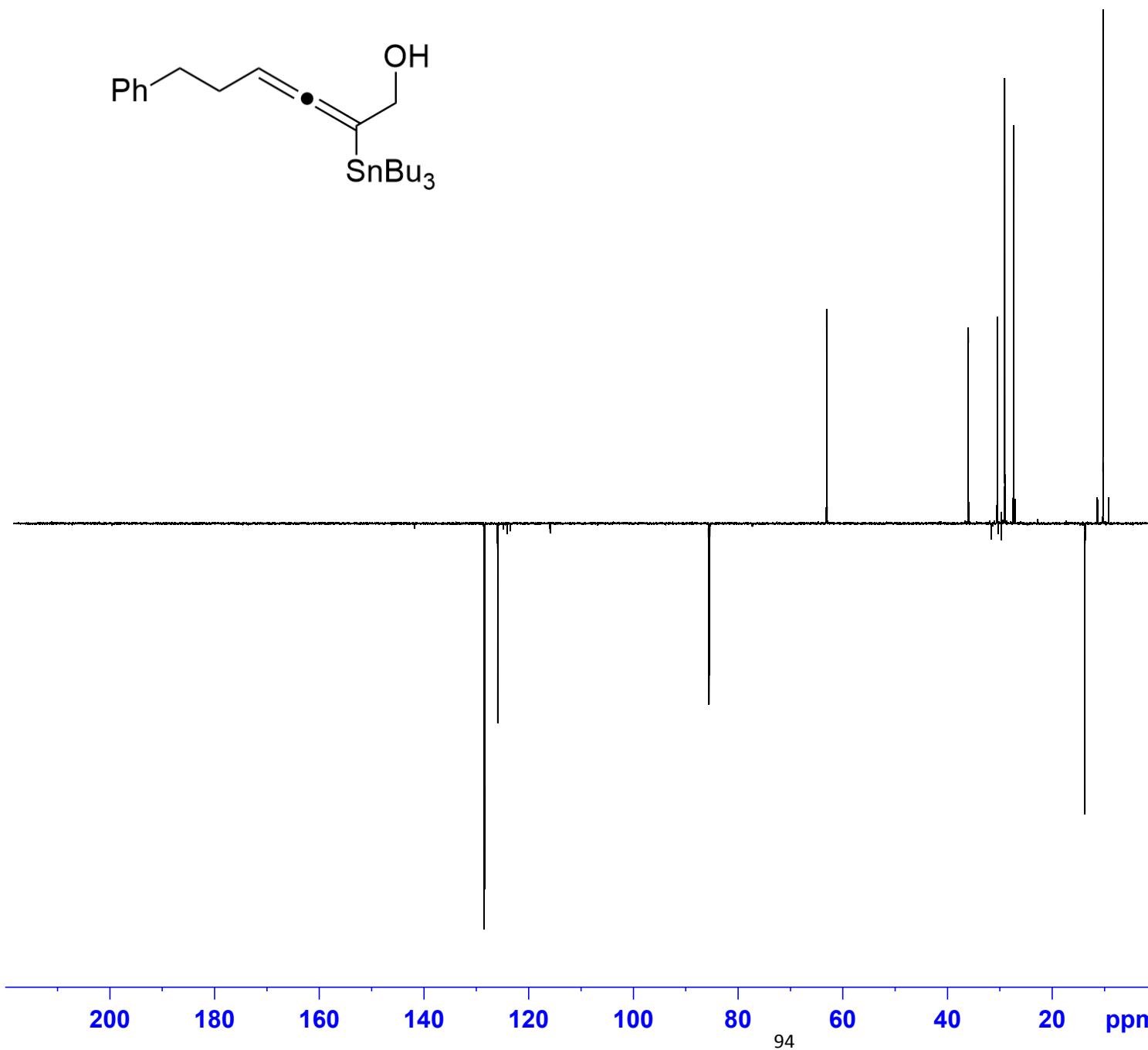
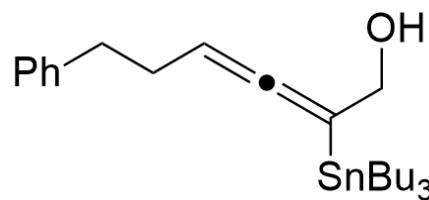




Current Data Parameters
 NAME LH-I-46
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.10 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2500
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

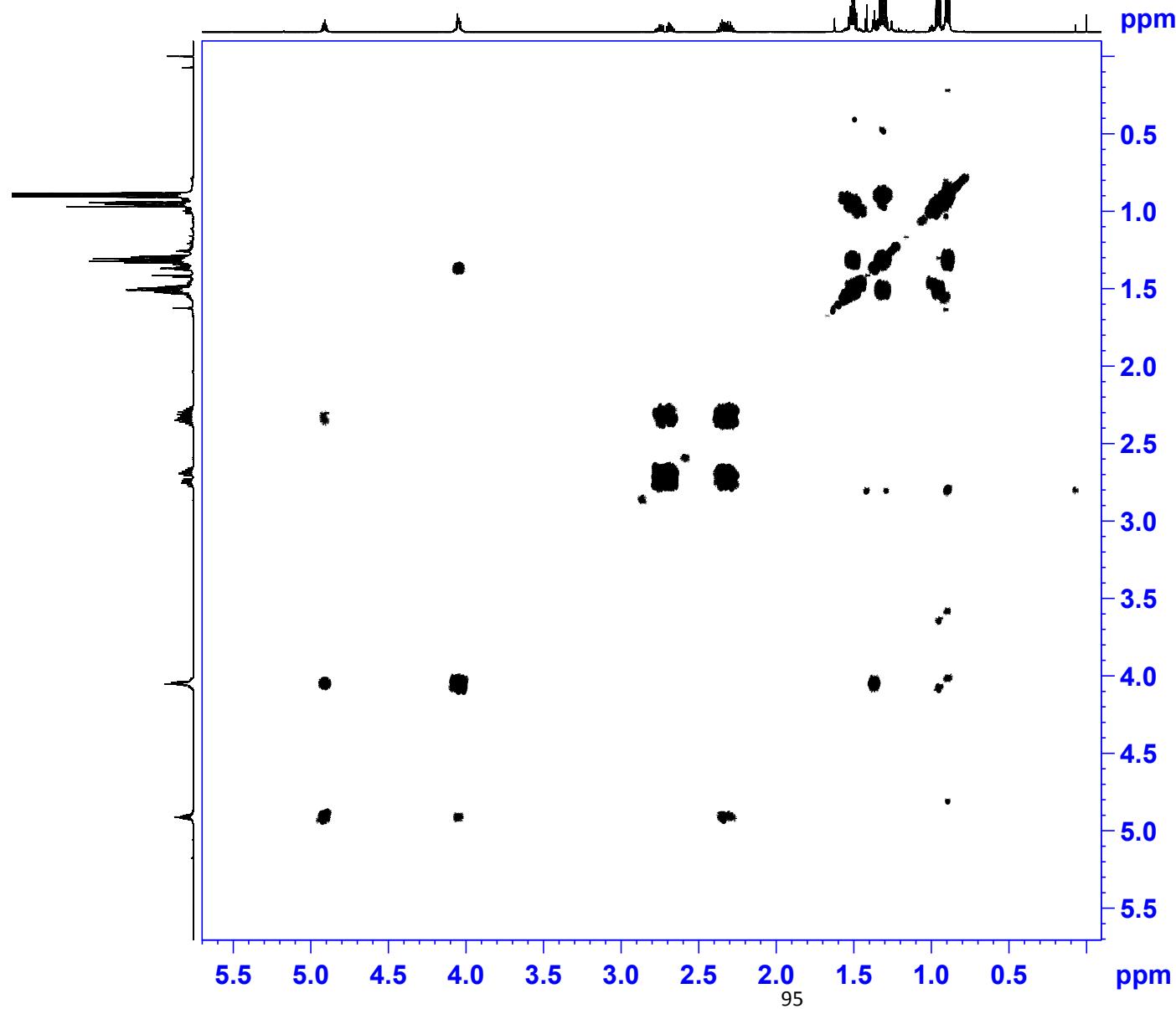
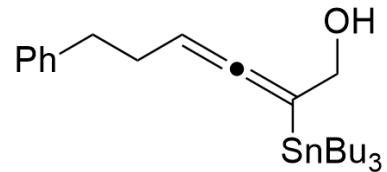
F2 - Processing parameters
 SI 131072
 SF 150.9028155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-46
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211216
 Time 16.55 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1
 SFO1 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 18.08300018 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

F2 - Processing parameters
 SI 131072
 SF 150.9028085 MHz
 WDW EM
 SSB 0
 LB 0 1.00 Hz
 GB 0 1.40
 PC



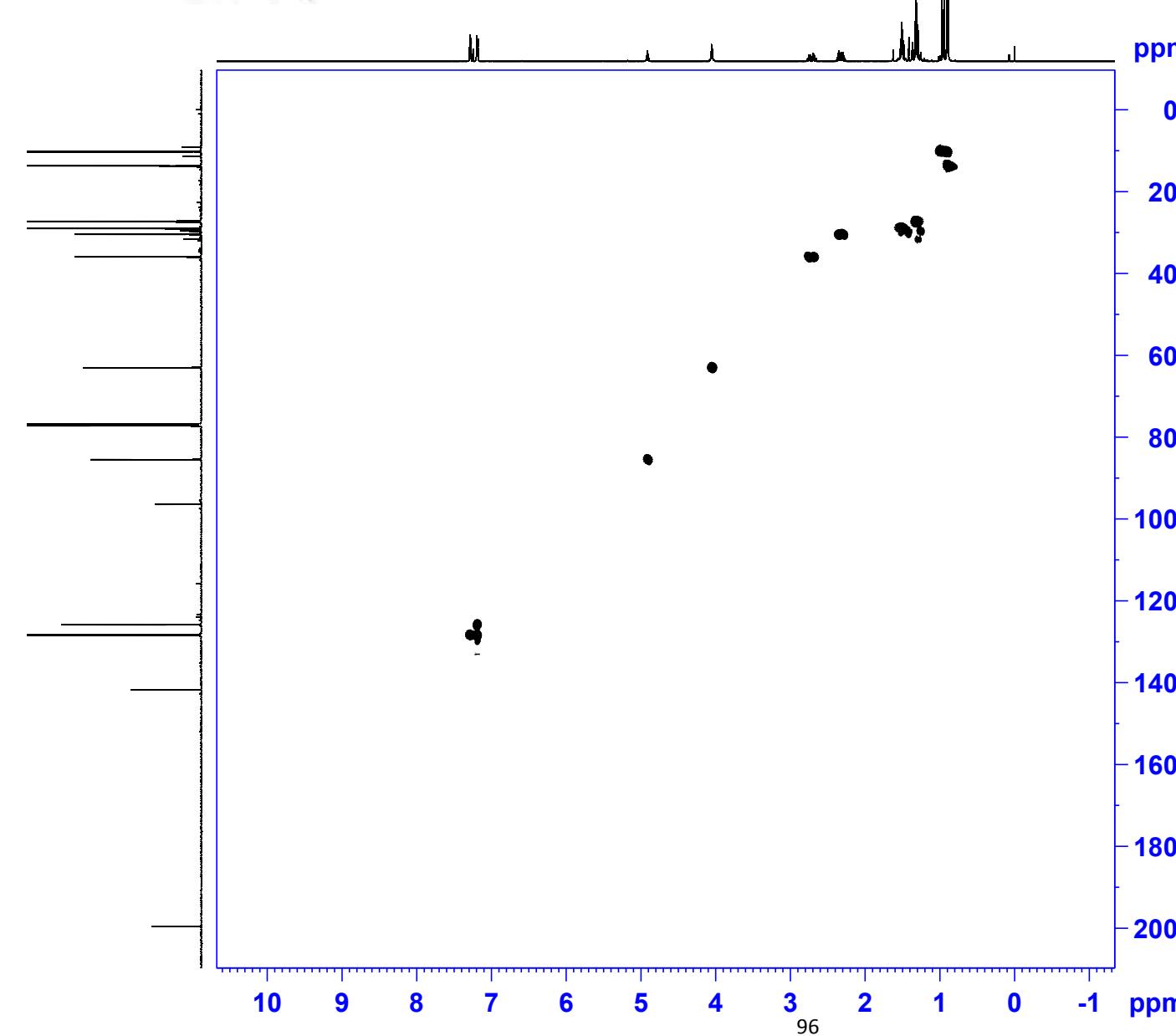
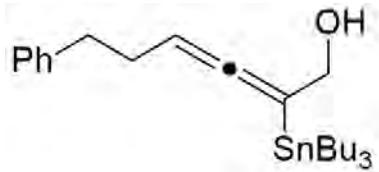
Current Data Parameters
NAME LH-I-46
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211216
Time 17.06 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG cosygppmfpqf
TD 2048
SOLVENT CDCl3
NS 2
DS 8
SWH 3478.664 Hz
FIDRES 3.397133 Hz
AQ 0.2943659 sec
RG 186.92
DW 143.733 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.74809527 sec
D11 0.03000000 sec
D12 0.00000200 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00028700 sec
TDav 1
SF01 600.1317038 MHz
NUC1 1H
P1 10.00 usec
P17 2500.00 usec
PLW1 26.60000038 W
PLW10 4.25600004 W
GPNAM[1] SMSQ10.100
GPZ1 16.00 %
GPNAM[2] SMSQ10.100
GPZ2 12.00 %
GPNAM[3] SMSQ10.100
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 600.1317 MHz
FIDRES 27.221254 Hz
SW 5.806 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 600.1300217 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 600.1300217 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0



Current Data Parameters
NAME LH-I-46
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211216
Time 17.15 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG hsqcetgpsp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 7211.539 Hz
FIDRES 14.085036 Hz
AQ 0.0709973 sec
RG 186.92
DW 69.333 usec
DE 6.50 usec
TE 300.2 K
CNST2 145.0000000
D0 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.03000000 sec
D16 0.00020000 sec
D21 0.00036000 sec
IN0 0.000001510 sec
TDav 1
ZGOPTNS SF01 600.1328223 MHz
NUC1 1H
P1 10.00 usec
P2 20.00 usec
PLW1 26.60000038 W
SF02 150.9178988 MHz
NUC2 13C
CPDPRG[2] garp4
P3 11.80 usec
P14 500.00 usec
P31 1730.00 usec
PCPD2 60.00 usec
PLW0 0 W
PLW2 85.00000000 W
PLW12 3.28760004 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 18.08300018 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 5.22629976 W
GPNAME[1] SMSQ10,100
GPZ1 80.00 %
GPNAME[2] SMSQ10,100
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 150.9179 MHz
FIDRES 258.692047 Hz
SW 219.408 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 600.1300209 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0
PC 1.40

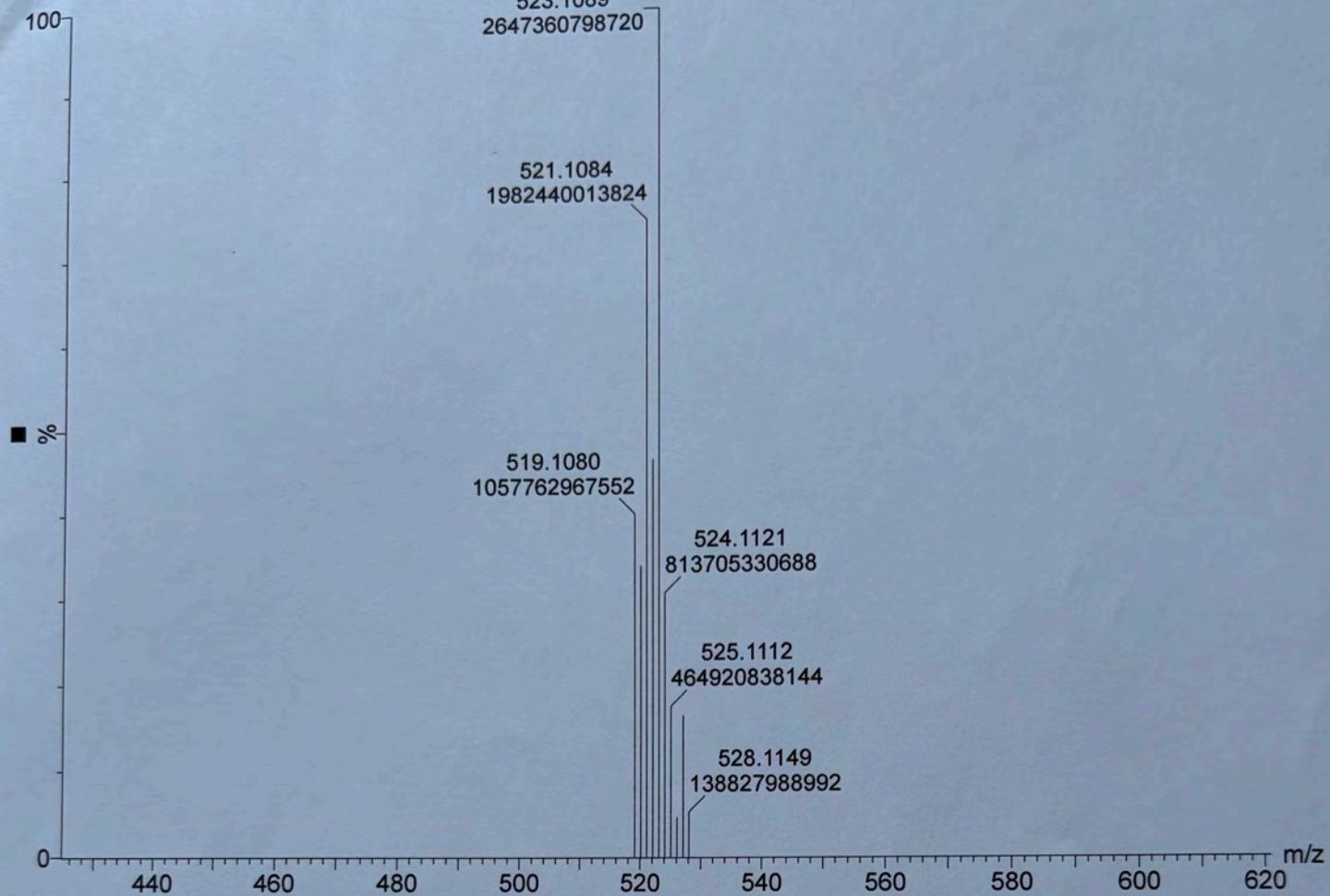
F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 150.9028058 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0

LH-1-48

ASEP_24JAN_2022_078 (0.045) Is (1.00,1.00) C₃₀H₂₇SnO

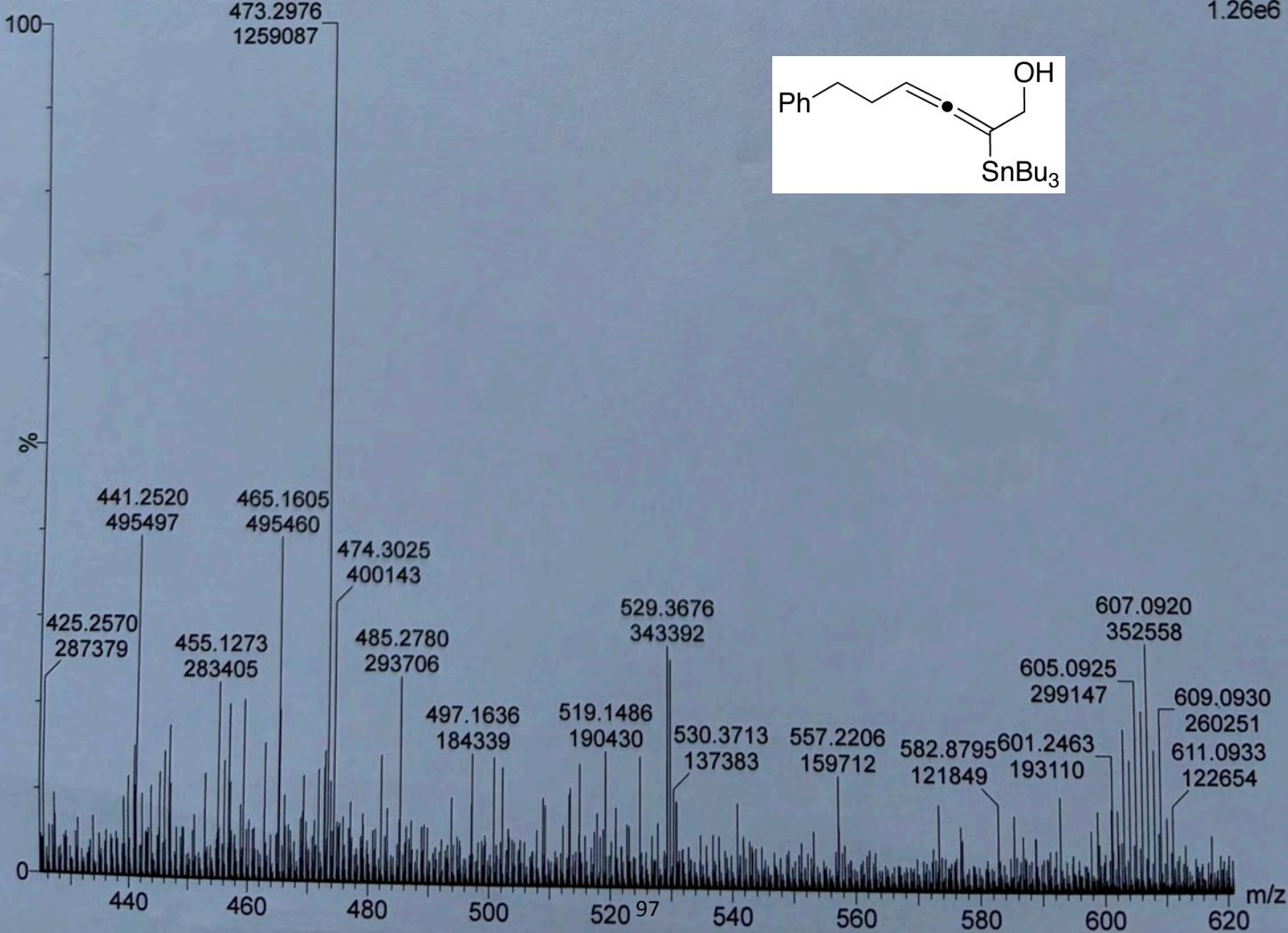
1: TOF MS ES-

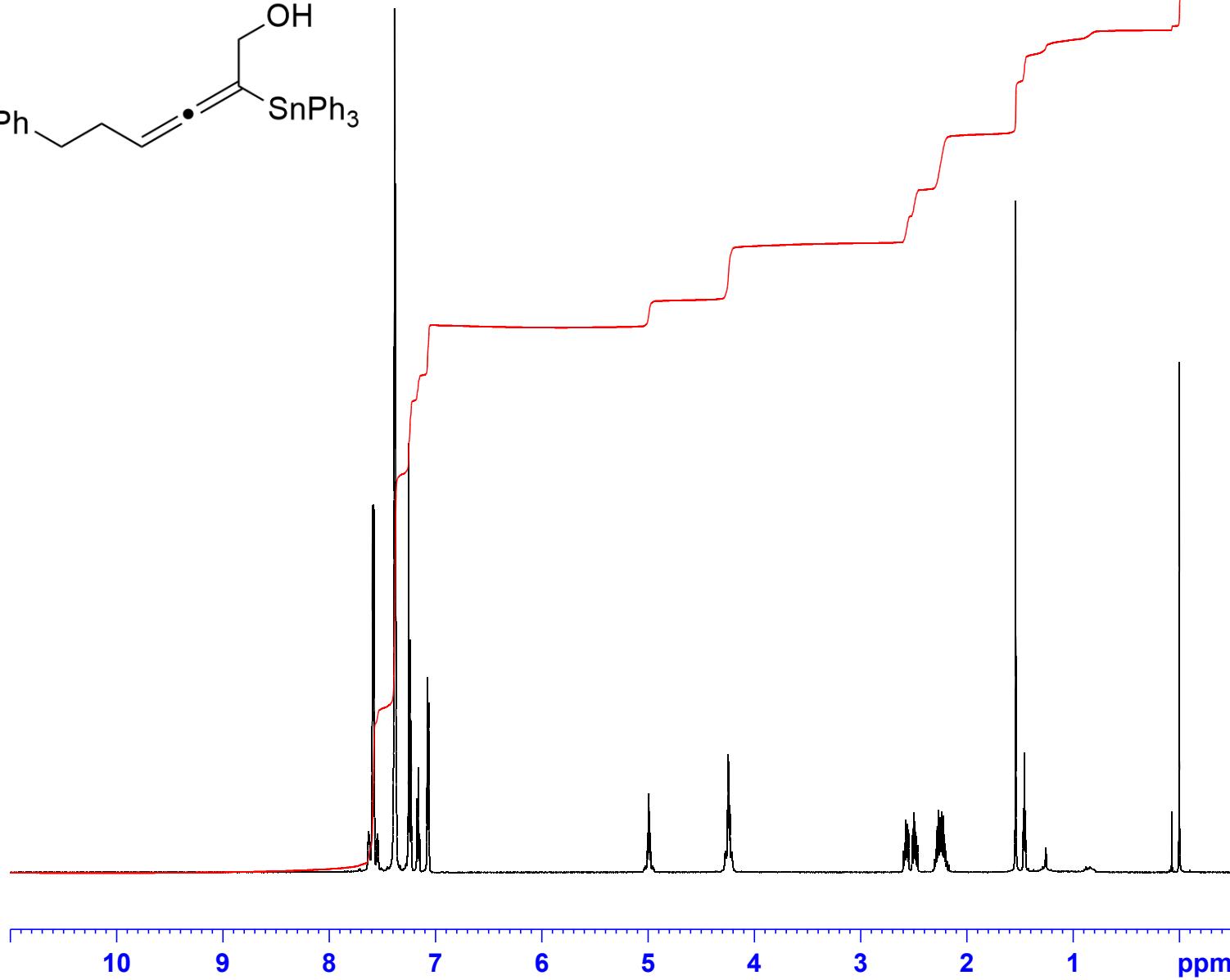
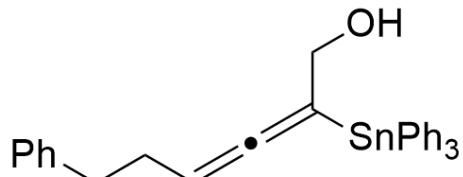
2.65e12



ASEP_24JAN_2022_078 38 (0.402) Cm (37:62)

1: TOF MS ES-
1.26e6





Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 18.06 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300190 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

7.633
 7.629
 7.627
 7.622
 7.620
 7.618
 7.598
 7.593
 7.589
 7.585
 7.583
 7.578
 7.551
 7.550
 7.548
 7.543
 7.538

7.386
 7.381
 7.375
 7.372
 7.365

7.252
 7.240
 7.227

7.174
 7.162
 7.149

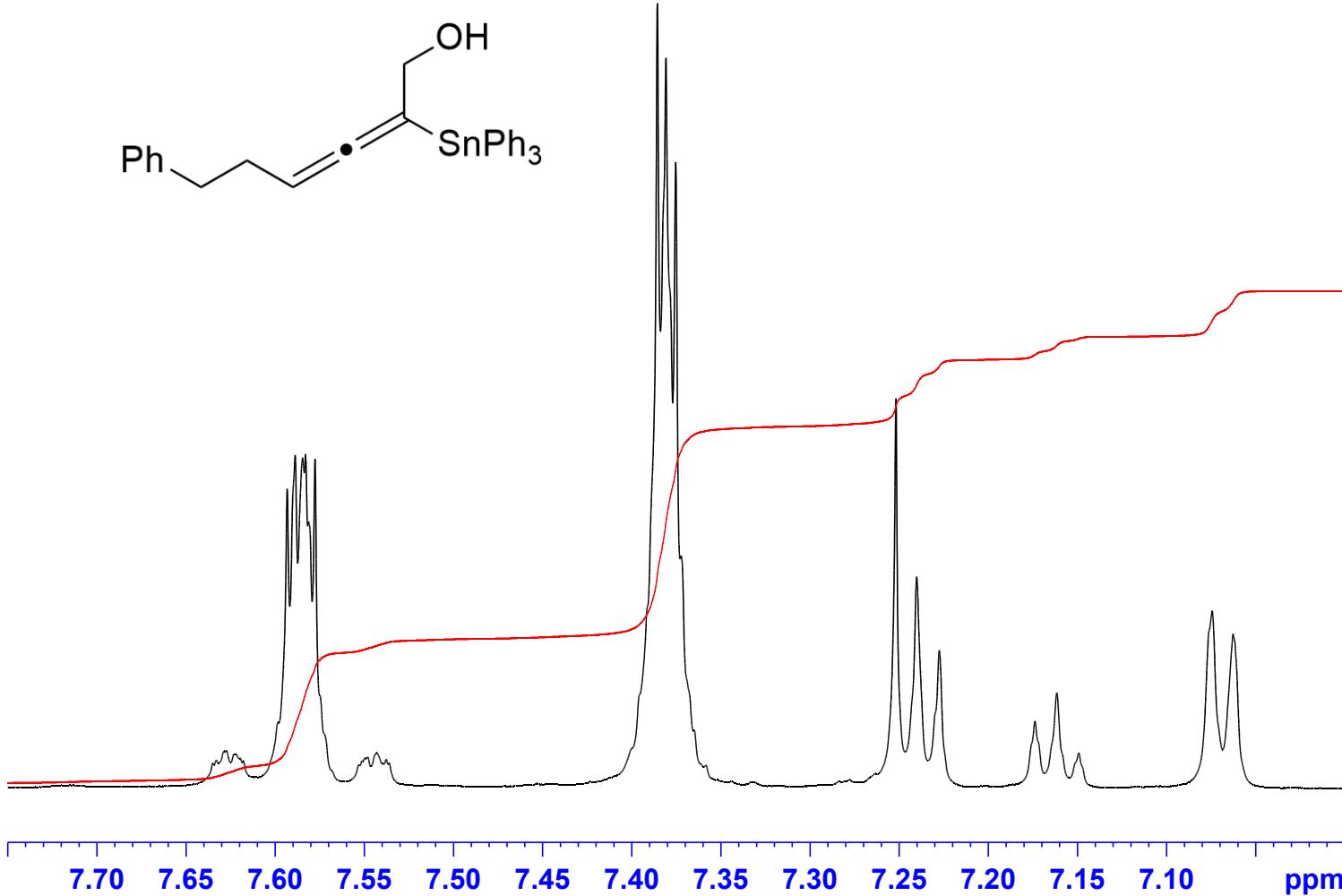
7.074
 7.063



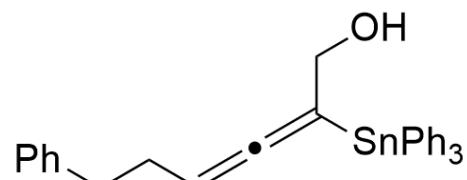
Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 18.06 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

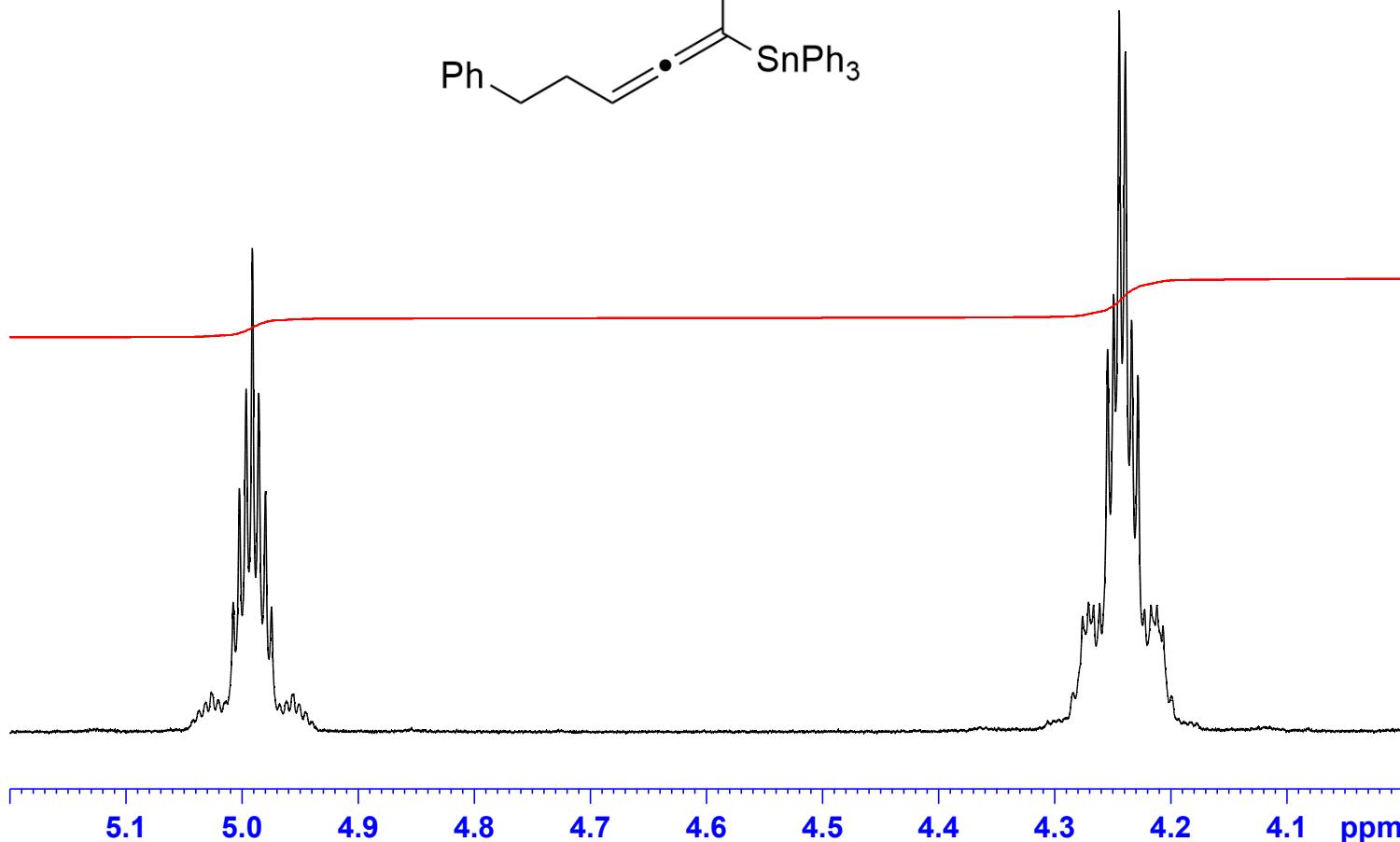
F2 - Processing parameters
 SI 262144
 SF 600.1300190 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



5.002
4.997
4.991
4.986
4.980



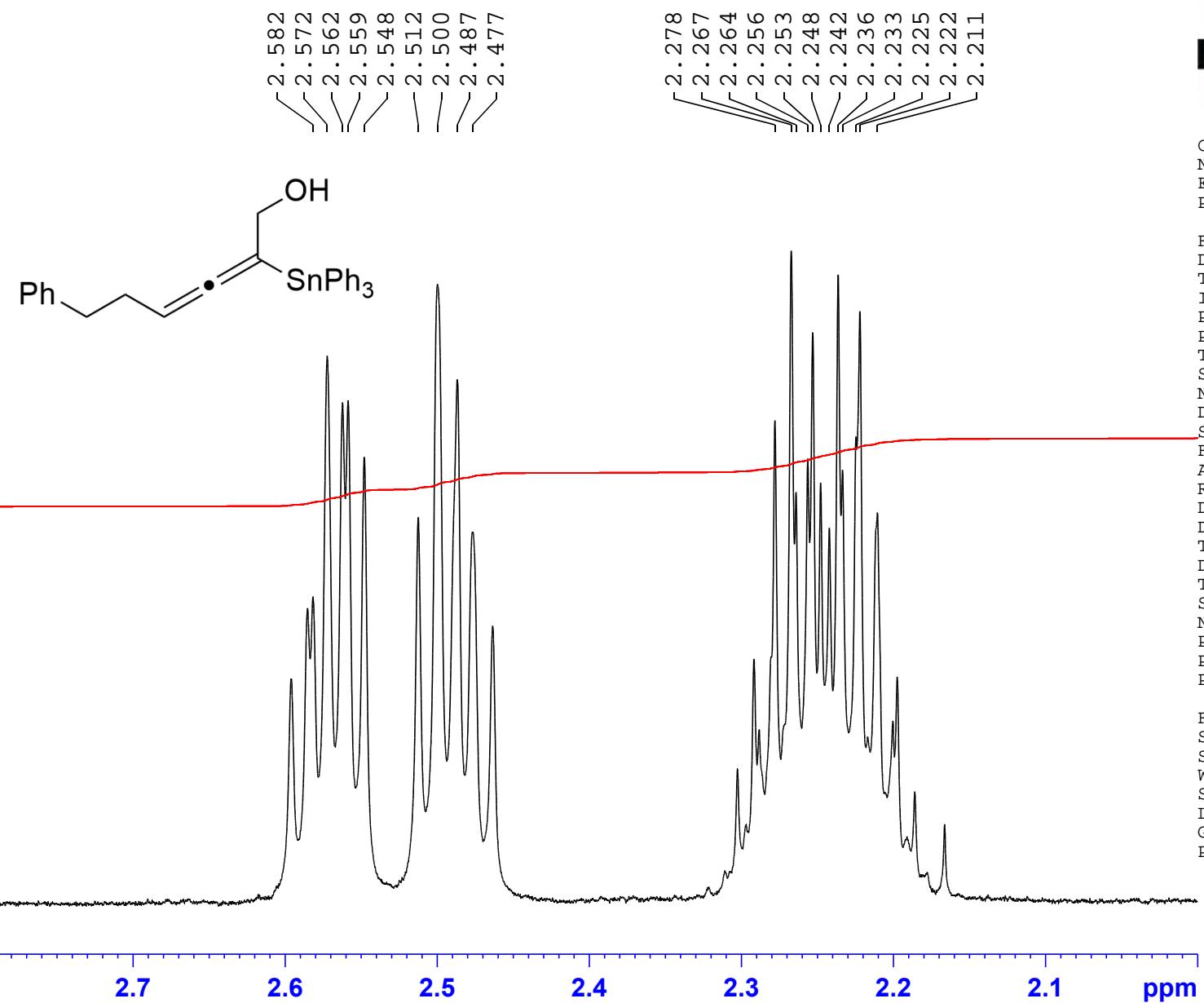
4.254
4.249
4.244
4.239
4.234
4.228



Current Data Parameters
NAME LH-I-26A PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211124
Time 18.06 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

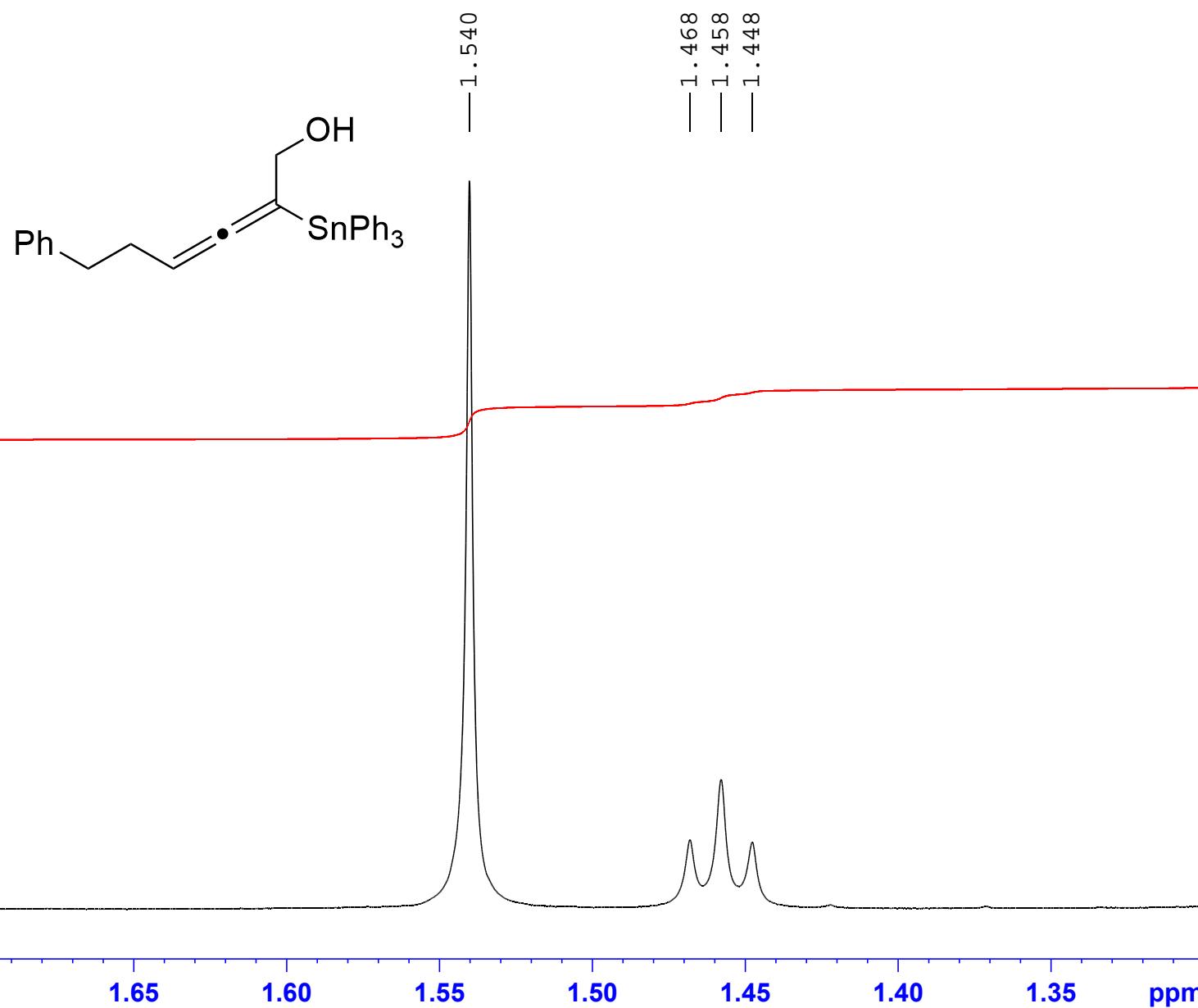
F2 - Processing parameters
SI 262144
SF 600.1300190 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 18.06 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300190 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

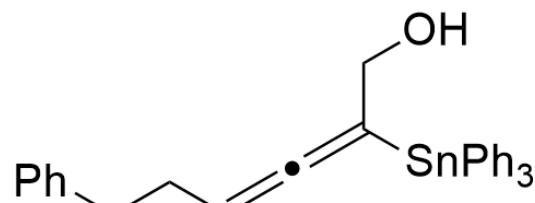


Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 18.06 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300190 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

1.540
1.468
1.458
1.448



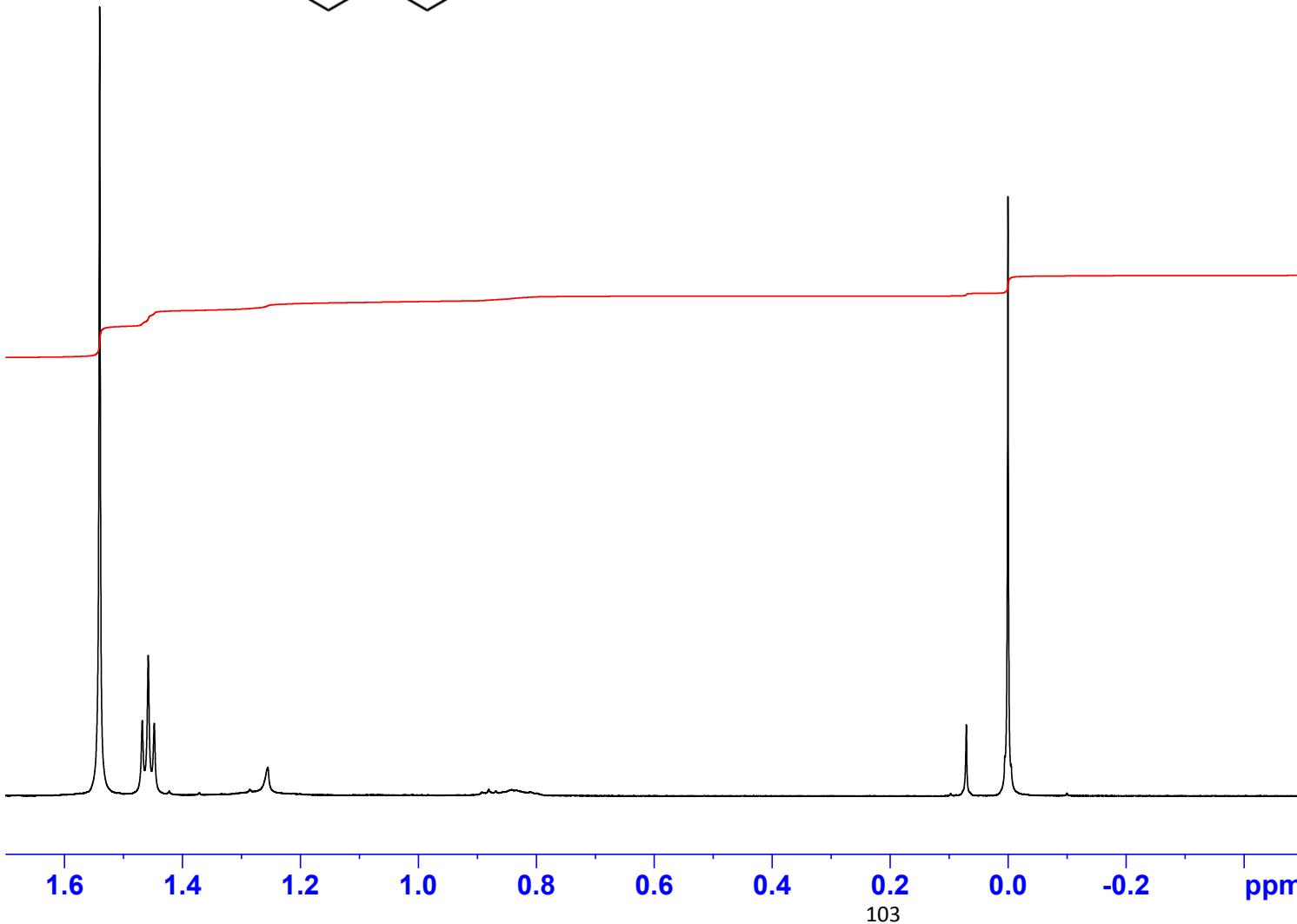
0.071
0.005
0.
-0.005
-0.005

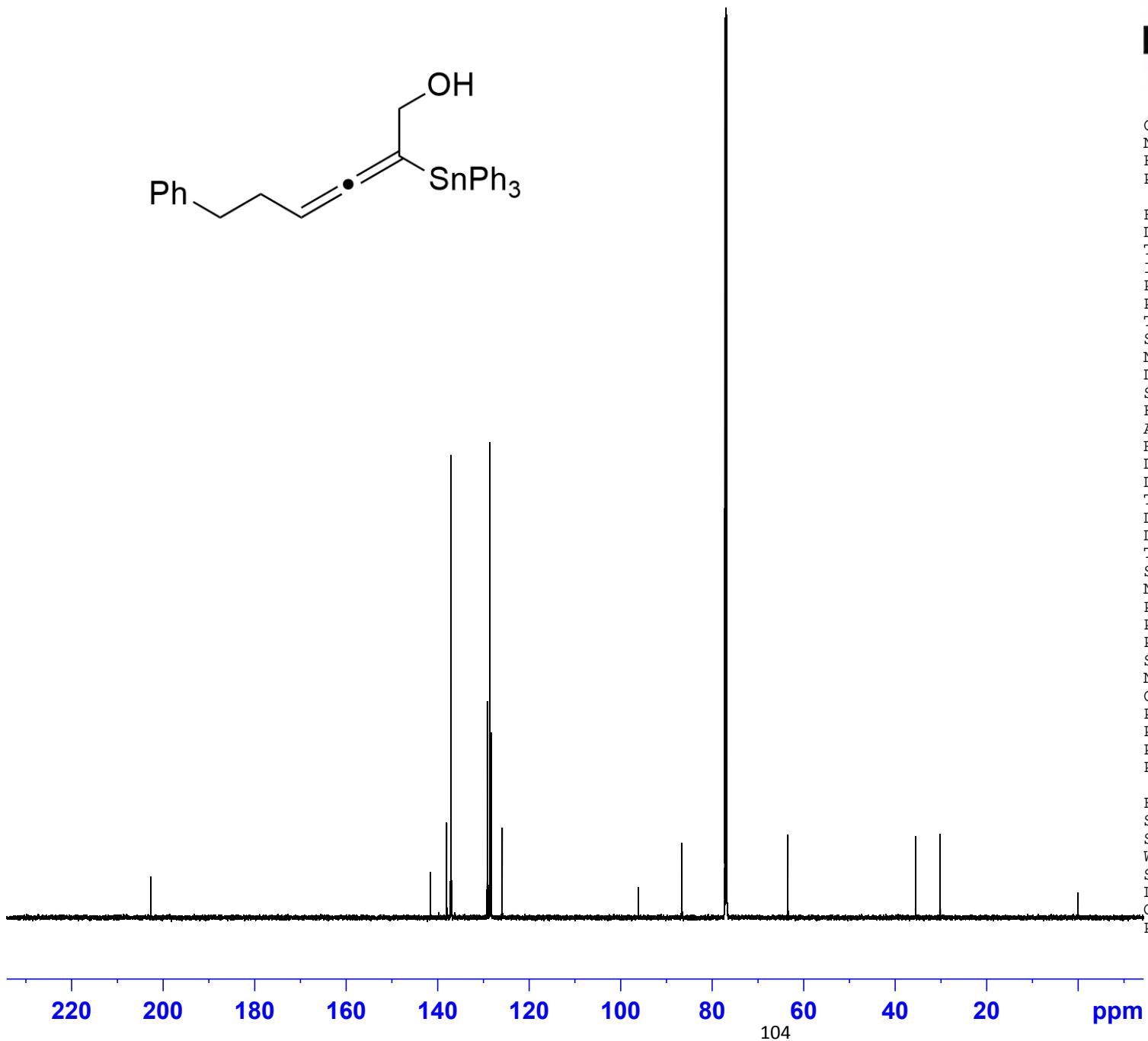


Current Data Parameters
NAME LH-I-26A PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211124
Time 18.06 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300190 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

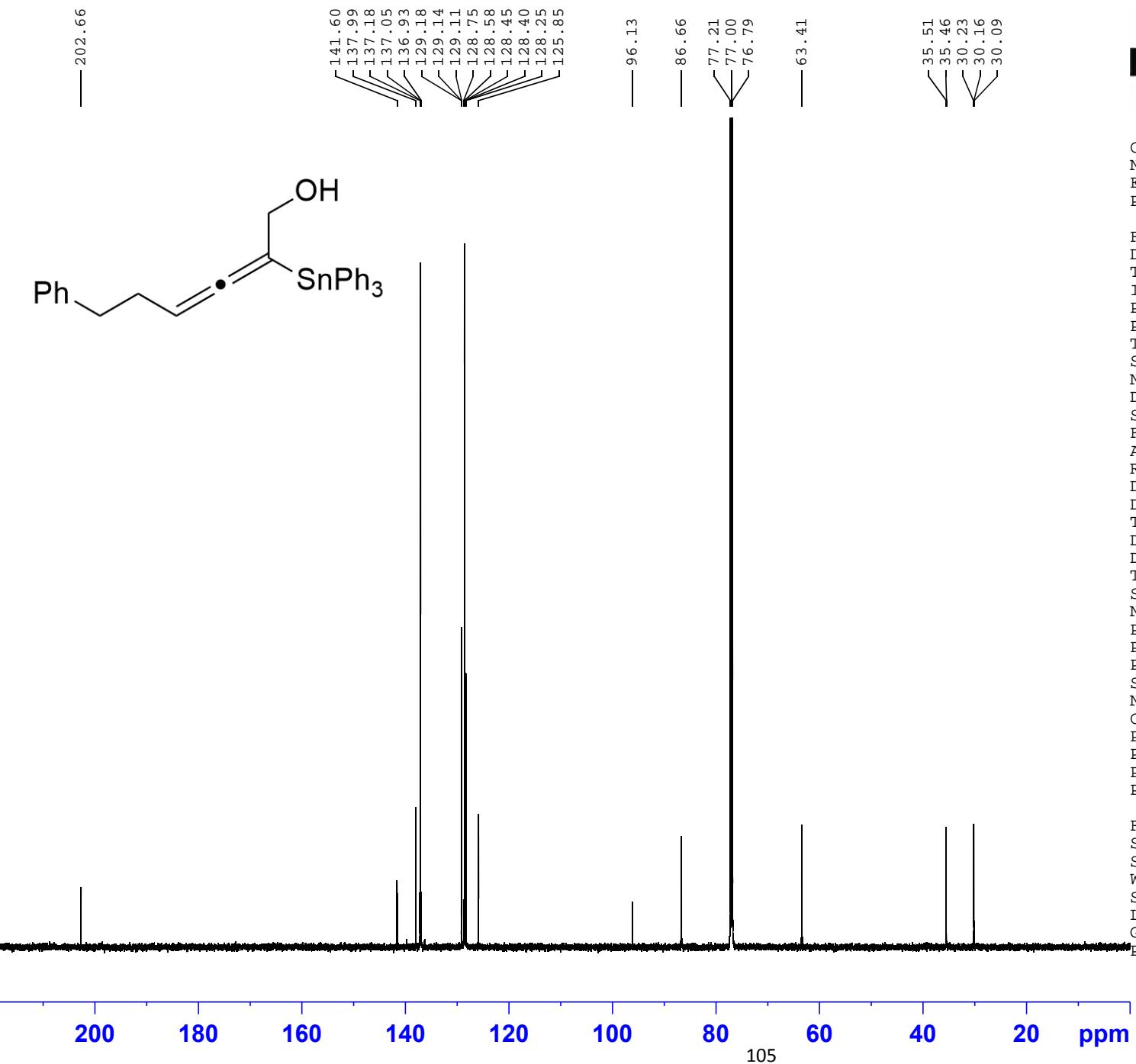




Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 19.36 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 ¹H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

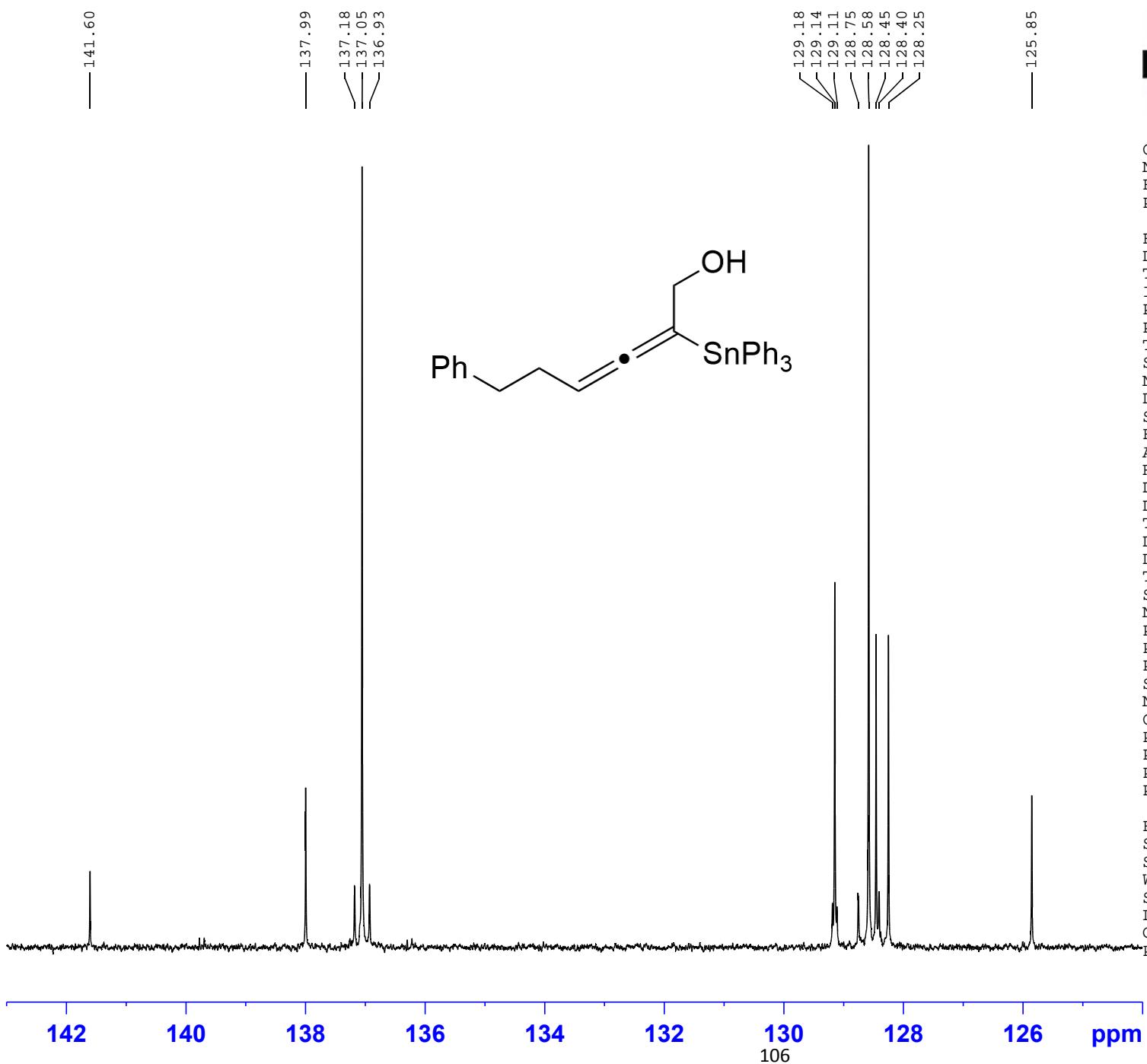
F2 - Processing parameters
 SI 131072
 SF 150.9028127 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 19.36 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

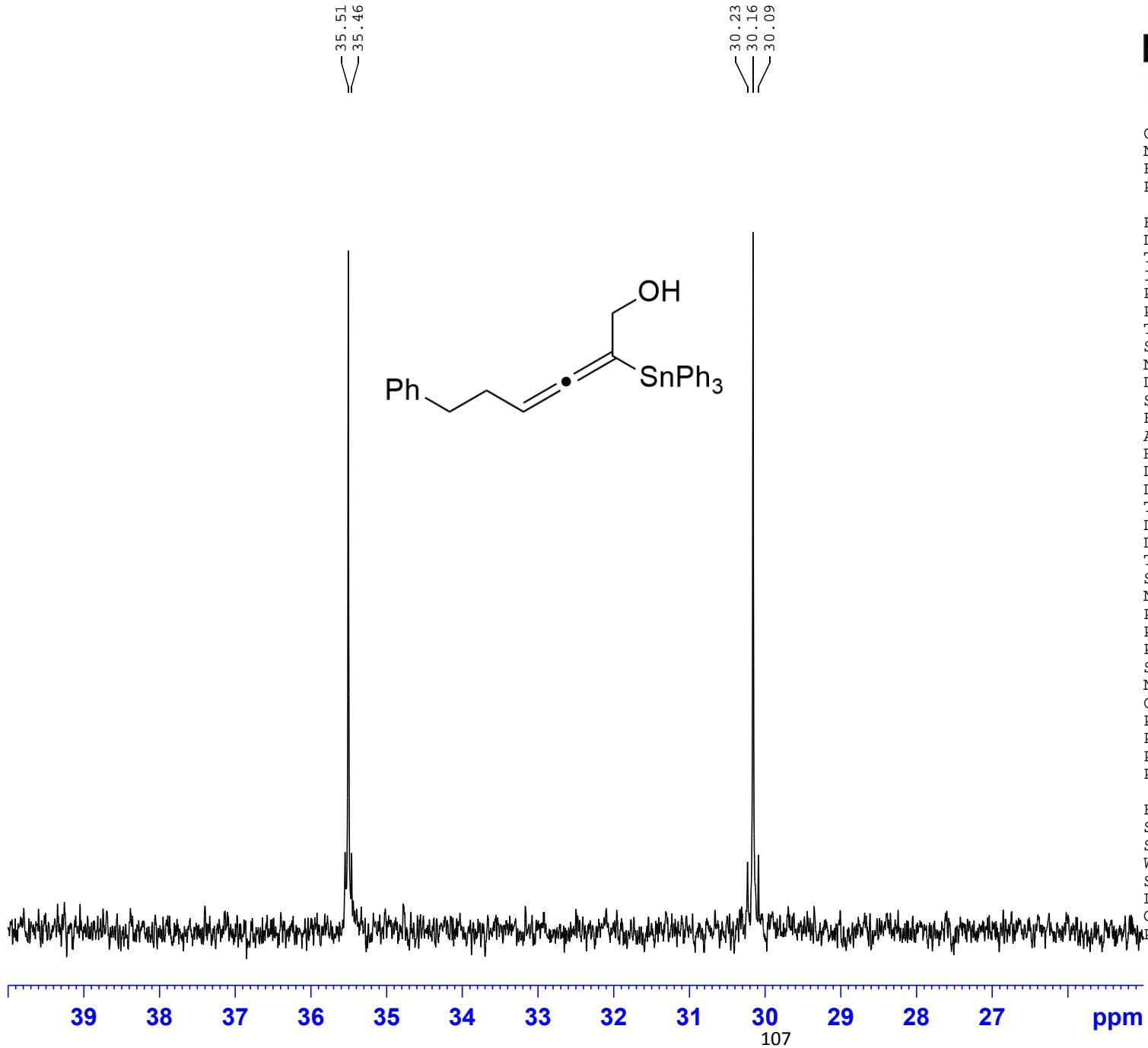
F2 - Processing parameters
 SI 131072
 SF 150.9028127 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

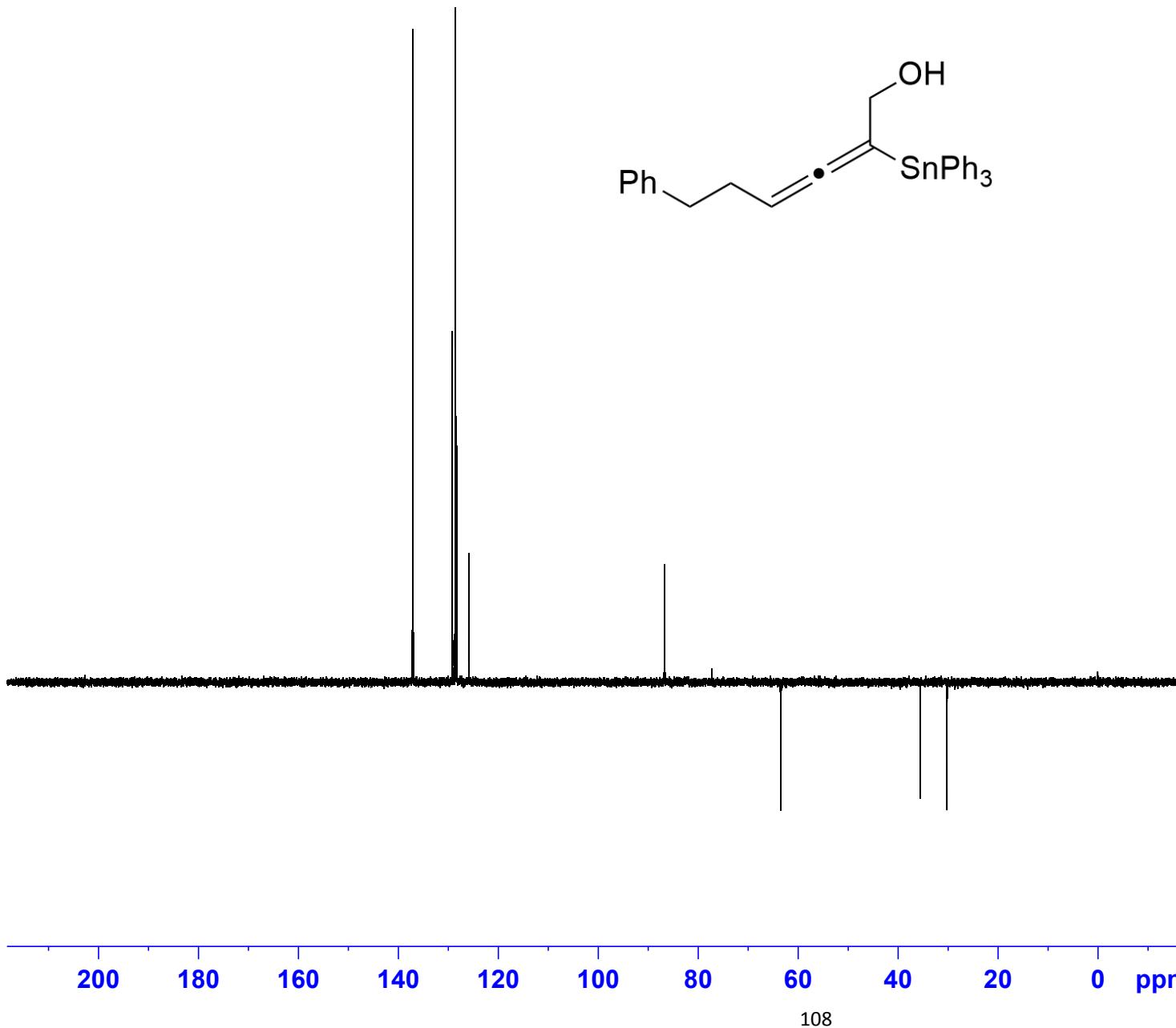
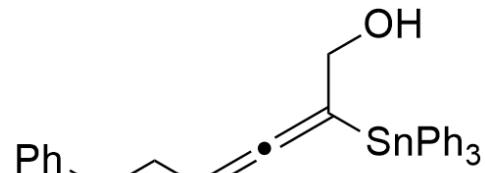


Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 19.36 h
 INSTRUM spect
 PROBHD Z114607_0188 (zgpg30
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2 waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028127 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

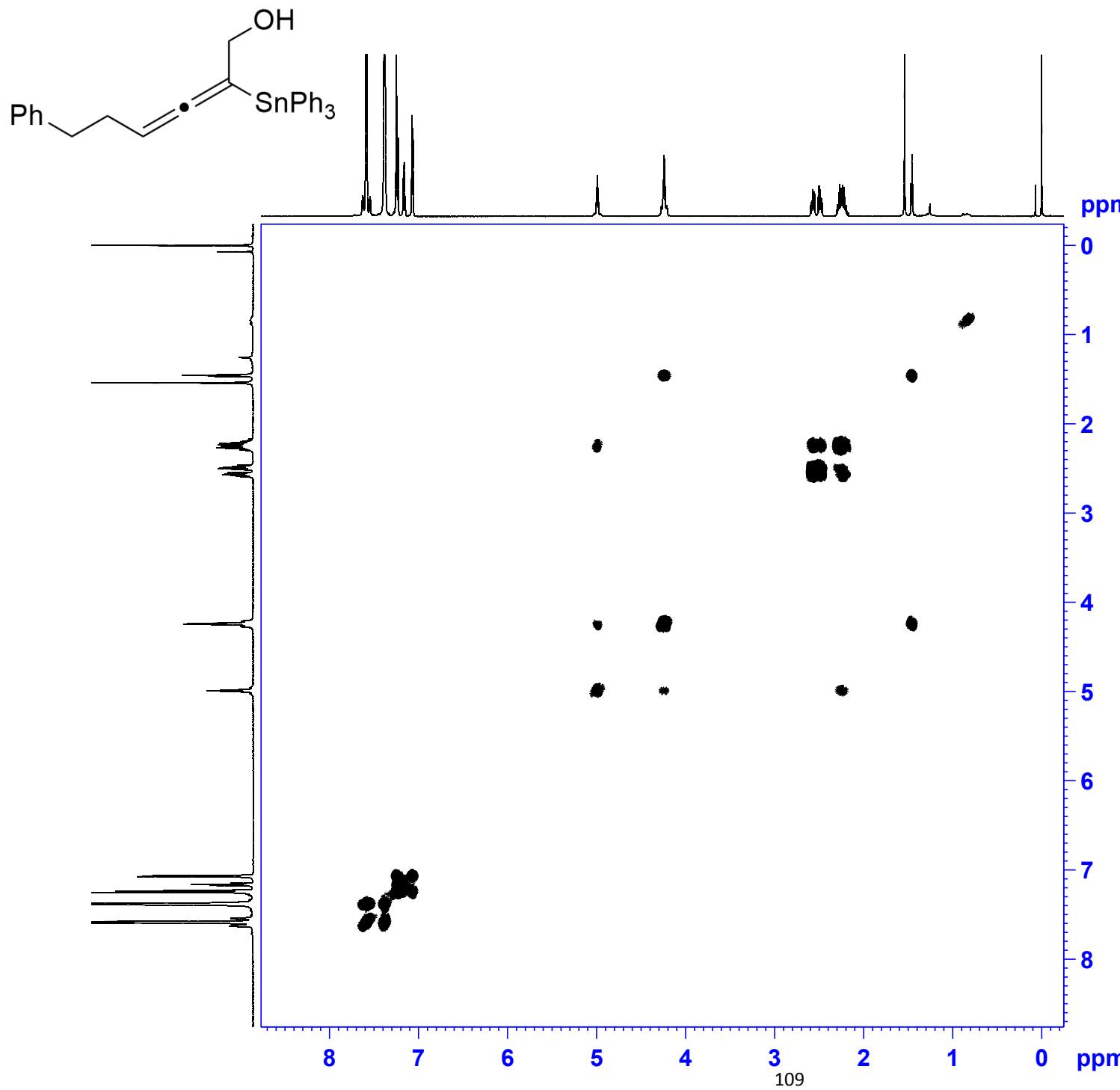




Current Data Parameters
NAME LH-I-26A PURE
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211124
Time 20.21 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG deptsp135.b
TD 119044
SOLVENT CDCl3
NS 1000
DS 4
SWH 35714.285 Hz
FIDRES 0.600018 Hz
AQ 1.6666160 sec
RG 186.92
DW 14.000 usec
DE 7.44 usec
TE 300.0 K
CNST2 145.0000000
D1 1.0000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 150.9178962 MHz
NUC1 ¹³C
P1 11.80 usec
P13 2000.00 usec
PLW0 0 W
PLW1 85.00000000 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFSS5 0 Hz
SPW5 18.08300018 W
SFO2 600.1324005 MHz
NUC2 ^{1H}
CPDPRG[2] waltz64
P3 10.20 usec
P4 20.40 usec
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W

F2 - Processing parameters
SI 131072
SF 150.9028085 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



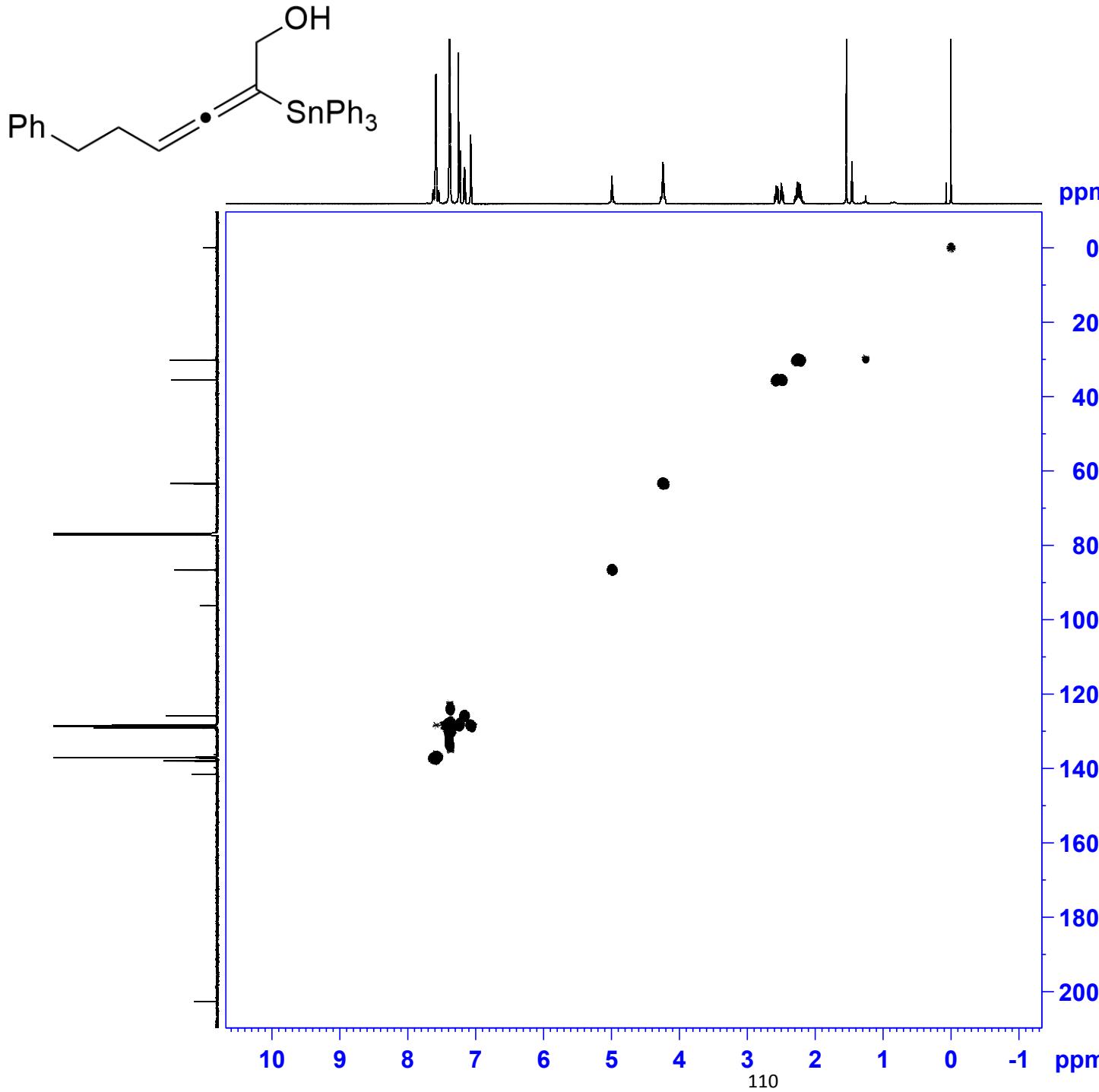
Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 20.32 h
 INSTRUM spect
 PROBHD Z114607_0188 (PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 2
 DS 8
 SWH 5411.255 Hz
 FIDRES 5.284429 Hz
 AQ 0.1892352 sec
 RG 186.92
 DW 92.400 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.86892730 sec
 D11 0.03000000 sec
 D12 0.000002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00018520 sec
 TDav 1
 SFO1 600.1325763 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 4.25600004 W
 GPNAM[1] SMSQ10.100
 GPZ1 16.00 %
 GPNAM[2] SMSQ10.100
 GPZ2 12.00 %
 GPNAM[3] SMSQ10.100
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1326 MHz
 FIDRES 42.184124 Hz
 SW 8.997 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300190 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300190 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



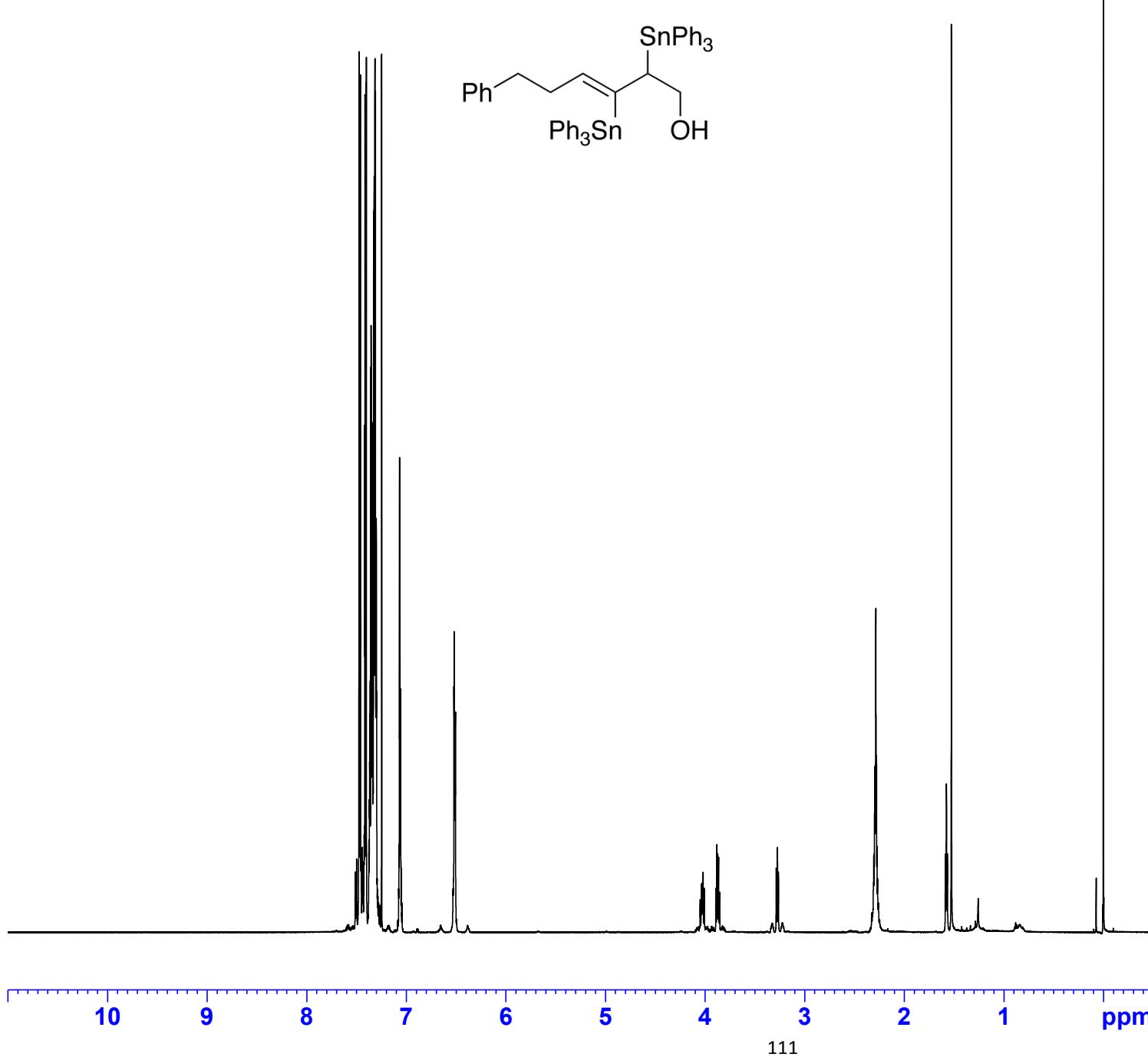
Current Data Parameters
 NAME LH-I-26A PURE
 EXPNO 14
 PROBNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 20.41 h
 INSTRUM spect
 PROBHD Z114607_0188.p
 PULPROG hsqcetgpsp3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 7211.539 Hz
 FIDRES 14.085036 Hz
 AQ 0.0709973 sec
 RG 186.92
 DW 69.333 usec
 DE 6.50 usec
 TE 300.3 K
 CNST2 145.0000000
 D0 0.00000300 sec
 D1 0.80000001 sec
 D4 0.00172414 sec
 D11 0.03000000 sec
 D16 0.00020000 sec
 D21 0.00360000 sec
 IN0 0.00001510 sec
 TDav 1
 ZGOPTNS 600.1328223 MHz
 SF01 1H
 P1 10.00 usec
 P2 20.00 usec
 PLW1 26.60000038 W
 SF02 150.9178988 MHz
 NUC2 13C
 CPDPRG[2] garp4
 P3 11.80 usec
 P14 500.00 usec
 P31 1730.00 usec
 PCPD2 60.00 usec
 PLW0 0 W
 PLW2 85.00000000 W
 PLW12 3.28760004 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 18.08300018 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 5.22629976 W
 GPNAM[1] SMSQ10,100
 GPZ1 80.00 %
 GPNAM[2] SMSQ10,100
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 150.9179 MHz
 FIDRES 258.692047 Hz
 SW 219.408 ppm
 FnMODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 600.1300190 MHz
 WDW QSINE
 SSB 2
 LB 0 Hz
 GB 0
 PC 1.40

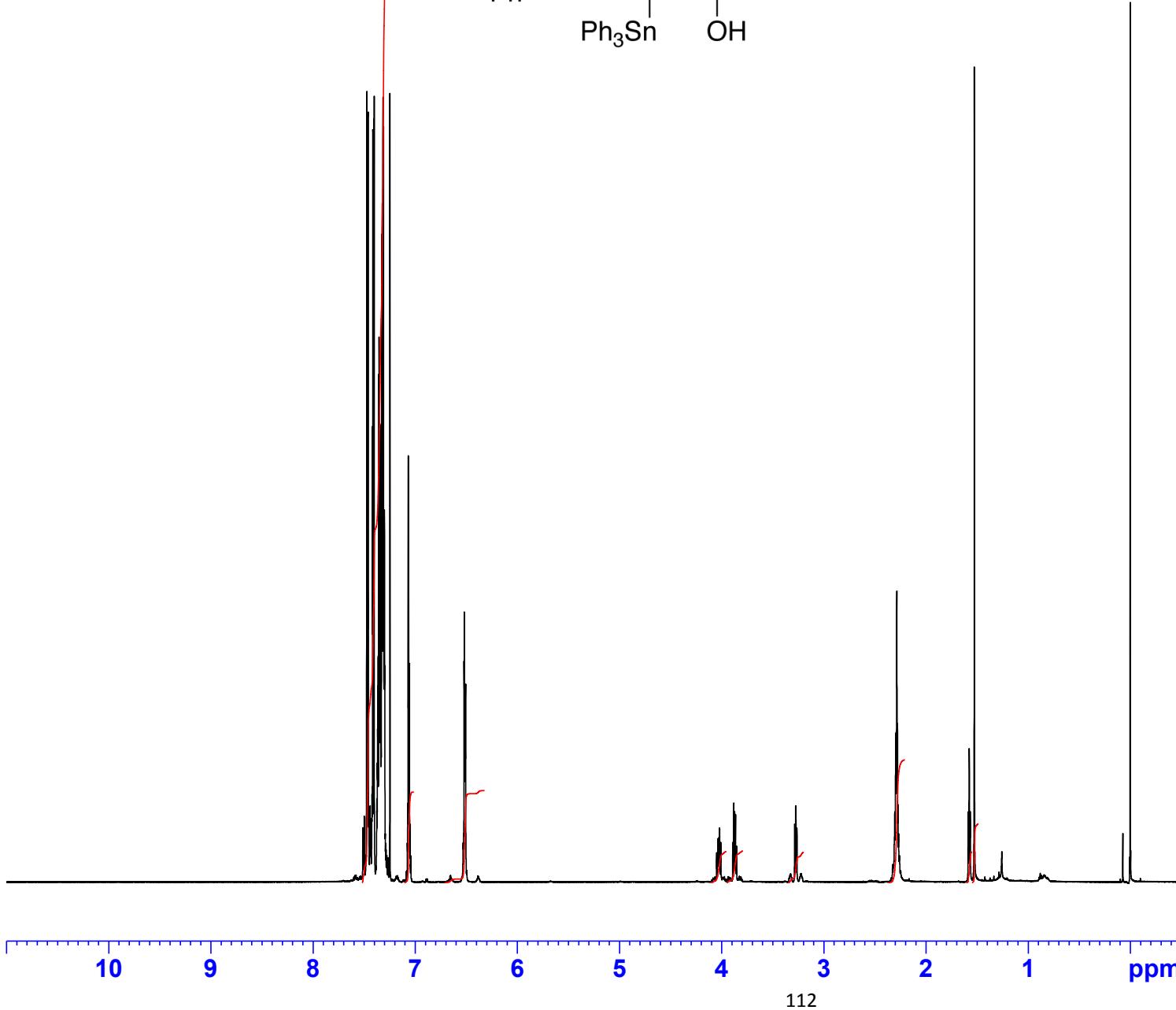
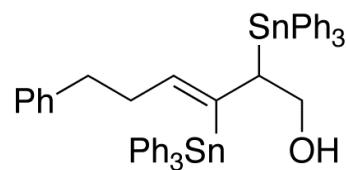
F1 - Processing parameters
 SI 1024
 MC2 echo-antiecho
 SF 150.9028004 MHz
 WDW QSINE
 SSB 2
 LB 0 Hz
 GB 0



Current Data Parameters
NAME LH-I-26B PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211124
Time 14.18 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

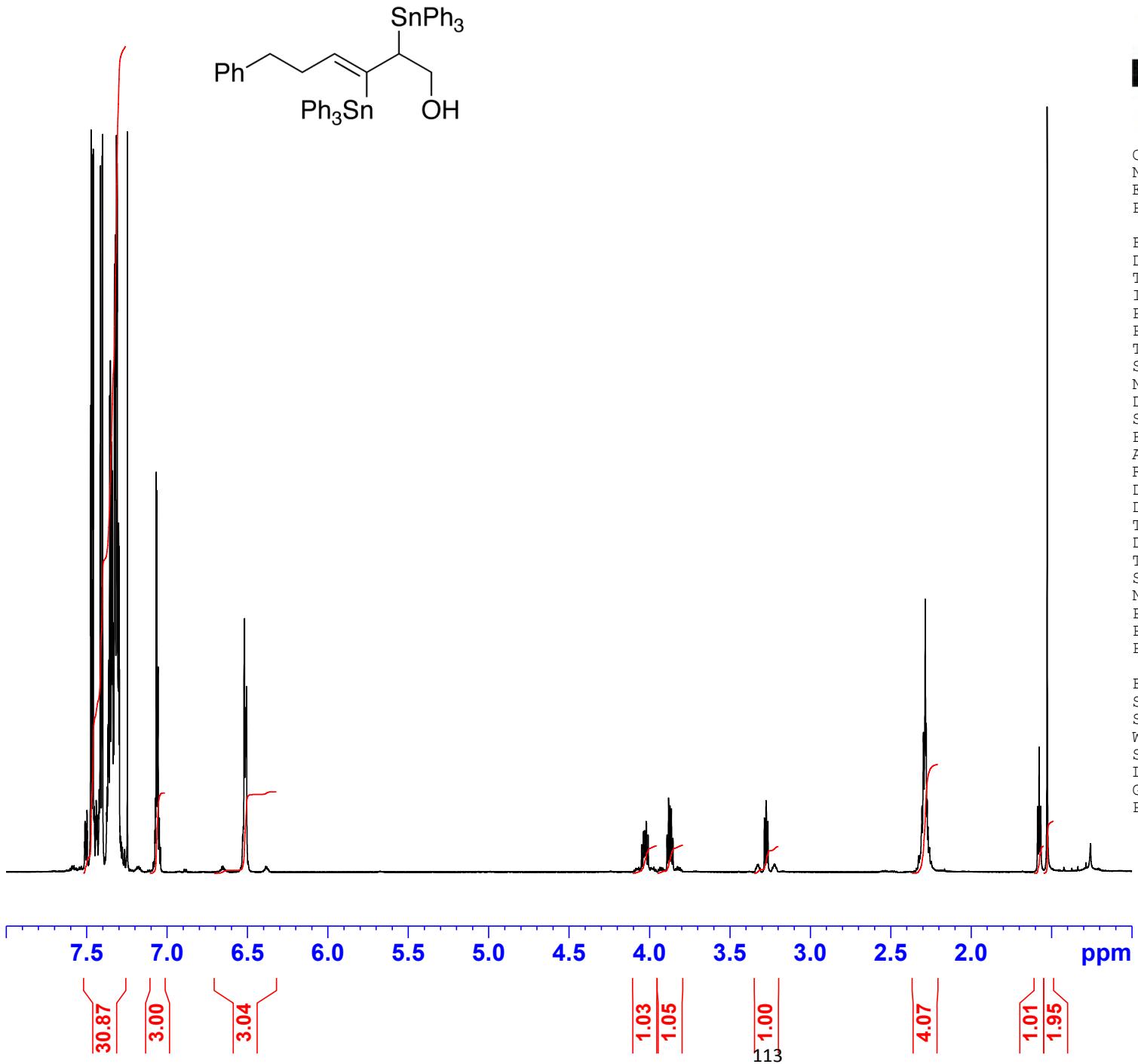
F2 - Processing parameters
SI 262144
SF 600.1300225 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

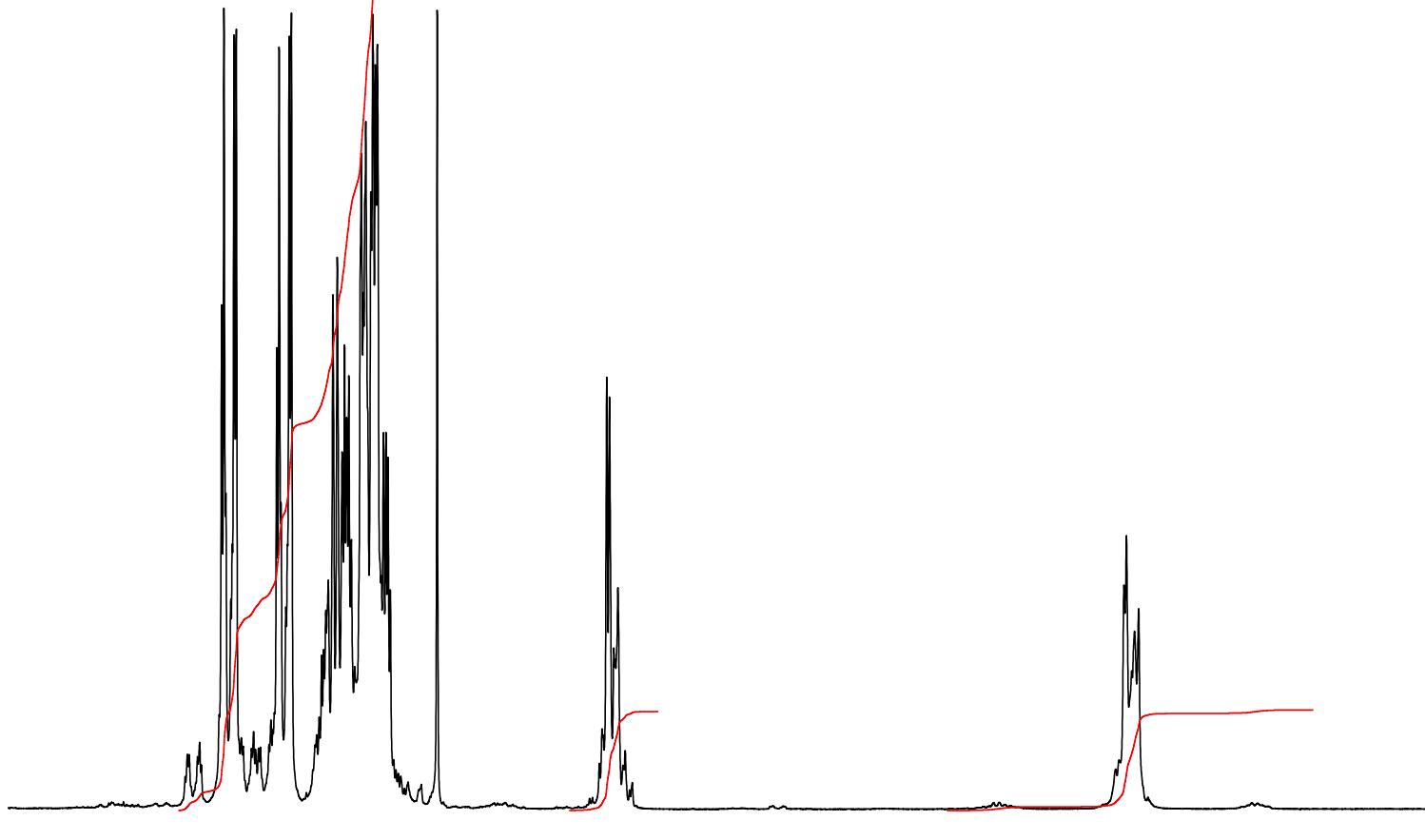
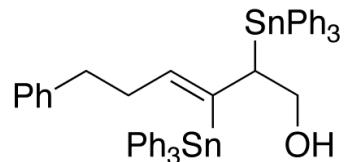
F2 - Processing parameters
 SI 262144
 SF 600.1300225 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300225 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

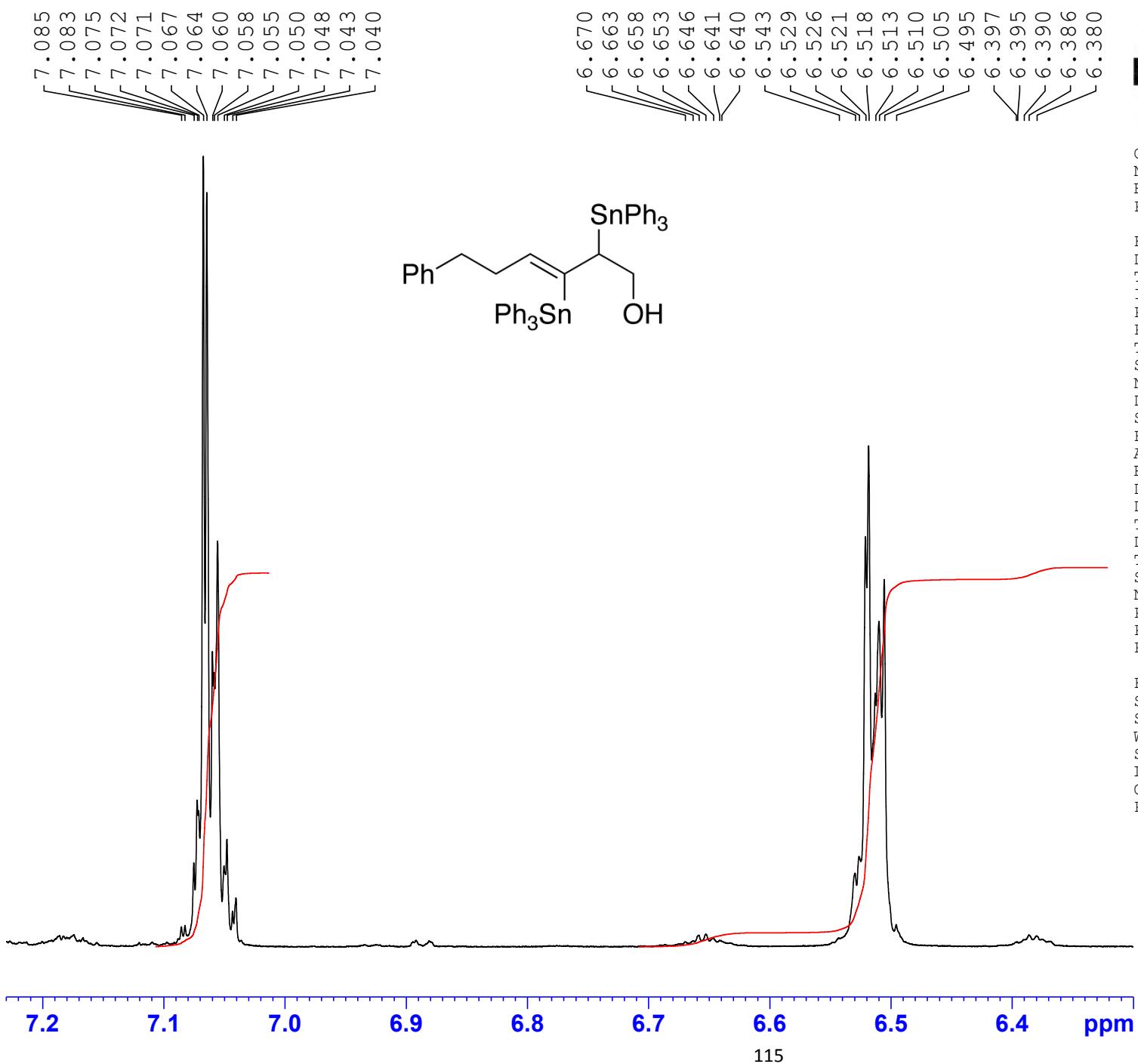
F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl₃
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 ¹H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300225 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

30.87

3.00

3.04



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

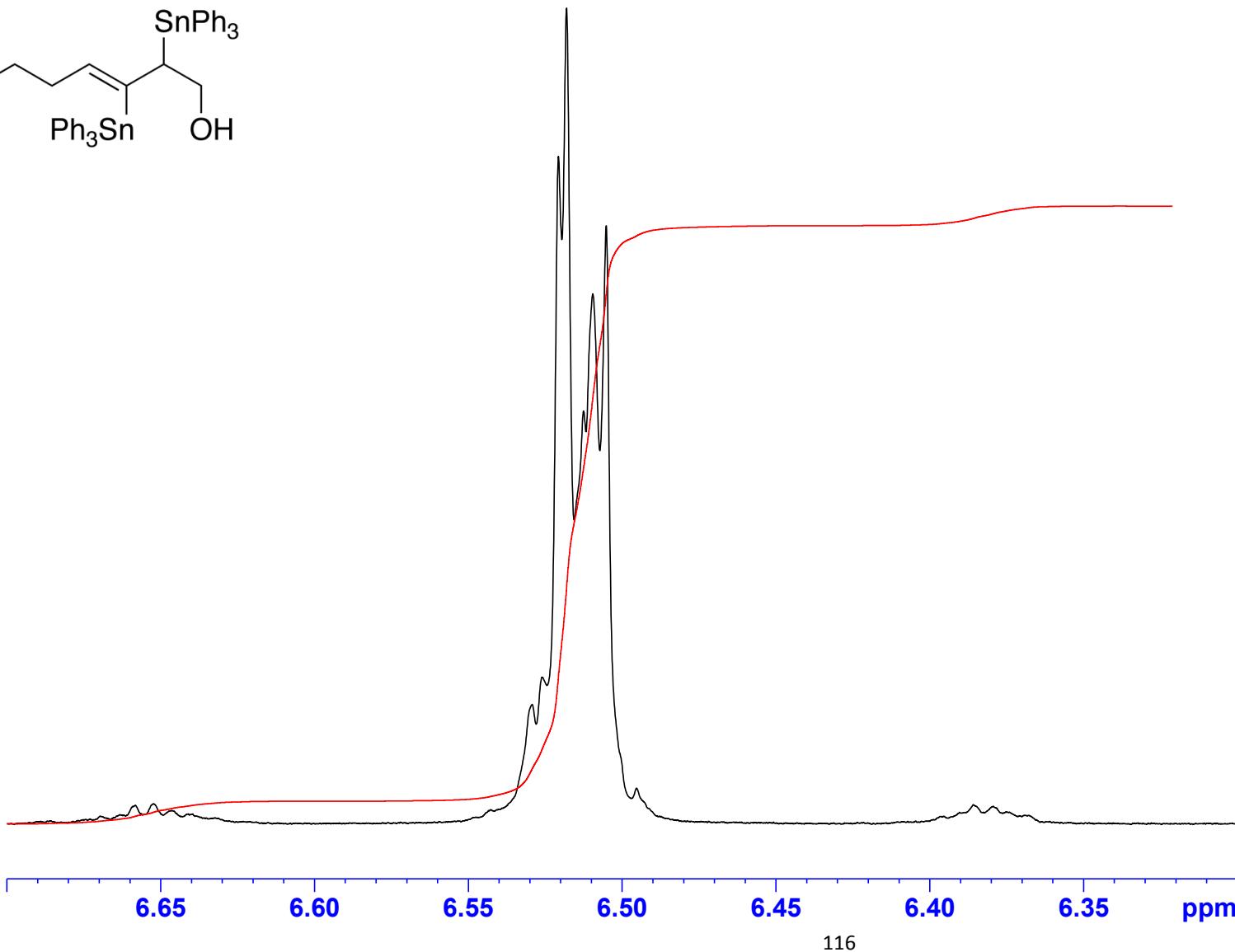
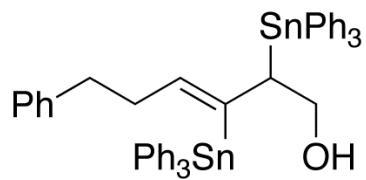
F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300225 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

6.670
6.663
6.658
6.653
6.646
6.641
6.640

6.543
6.529
6.526
6.521
6.518
6.513
6.510
6.505
6.495

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6.395
6.390
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6.369
6.368

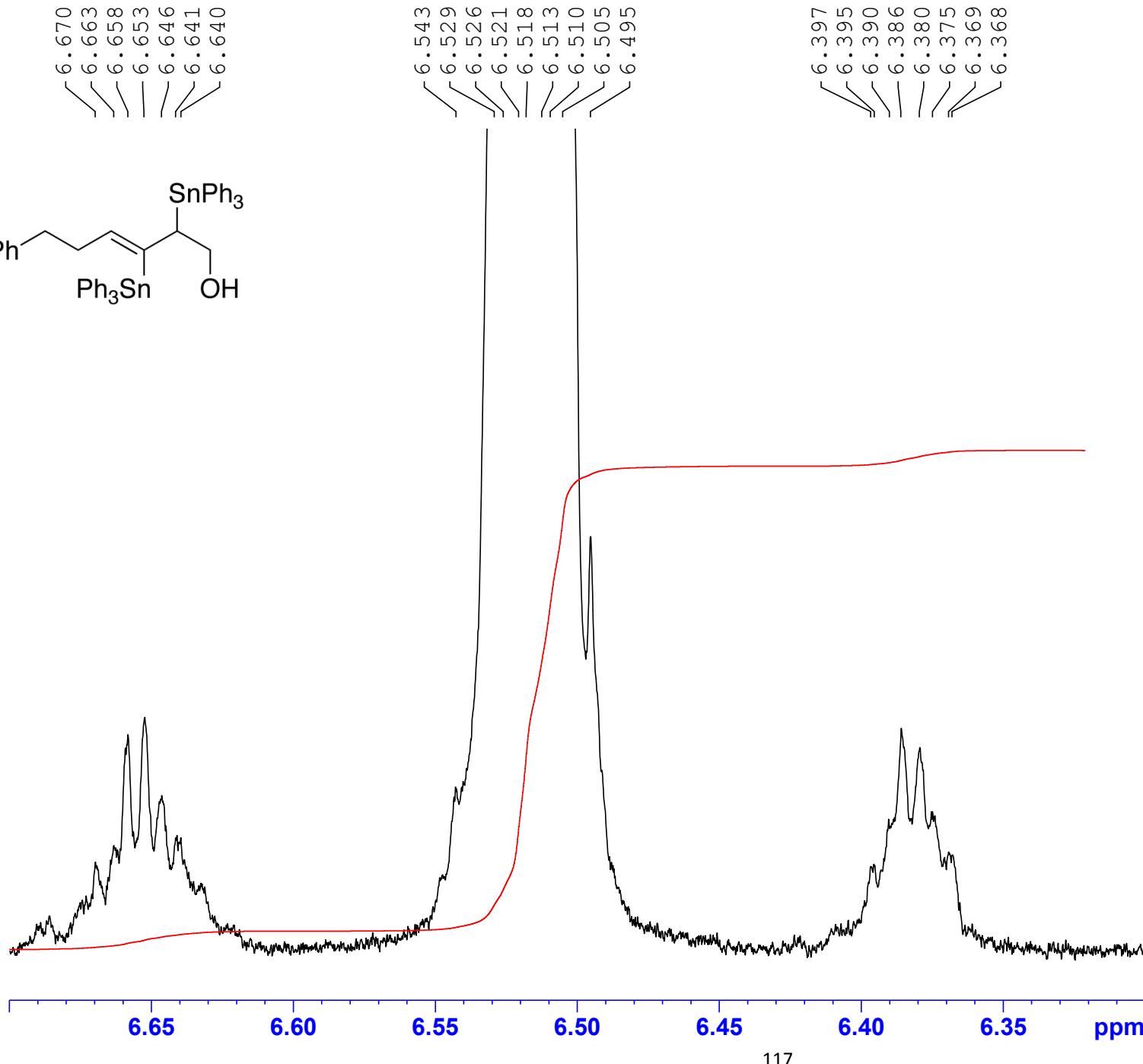
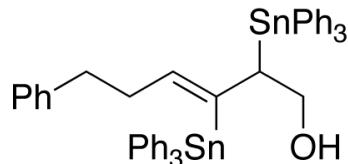


Current Data Parameters
NAME LH-I-26B PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211124
Time 14.18 h
INSTRUM spect
PROBHD Z114607_0188 (pzg30
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 1H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300225 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

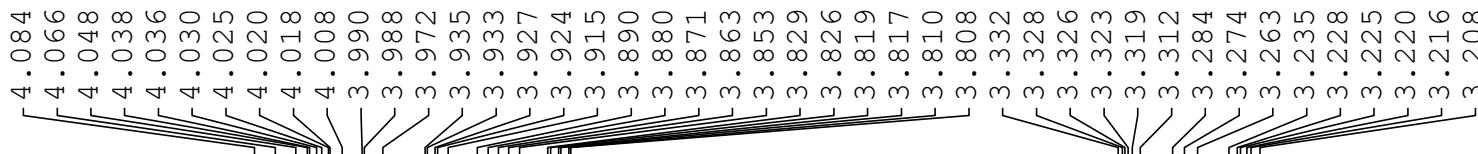
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6.658
6.653
6.646
6.641
6.640



Current Data Parameters
NAME LH-I-26B PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 20211124
Time 14.18 h
INSTRUM spect
PROBHD Z114607_0188 (zg30
PULPROG zg30
TD 180286
SOLVENT CDCl₃
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.200003 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 8.00 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1
SFO1 600.1337060 MHz
NUC1 ¹H
P0 3.33 usec
P1 10.00 usec
PLW1 26.60000038 W

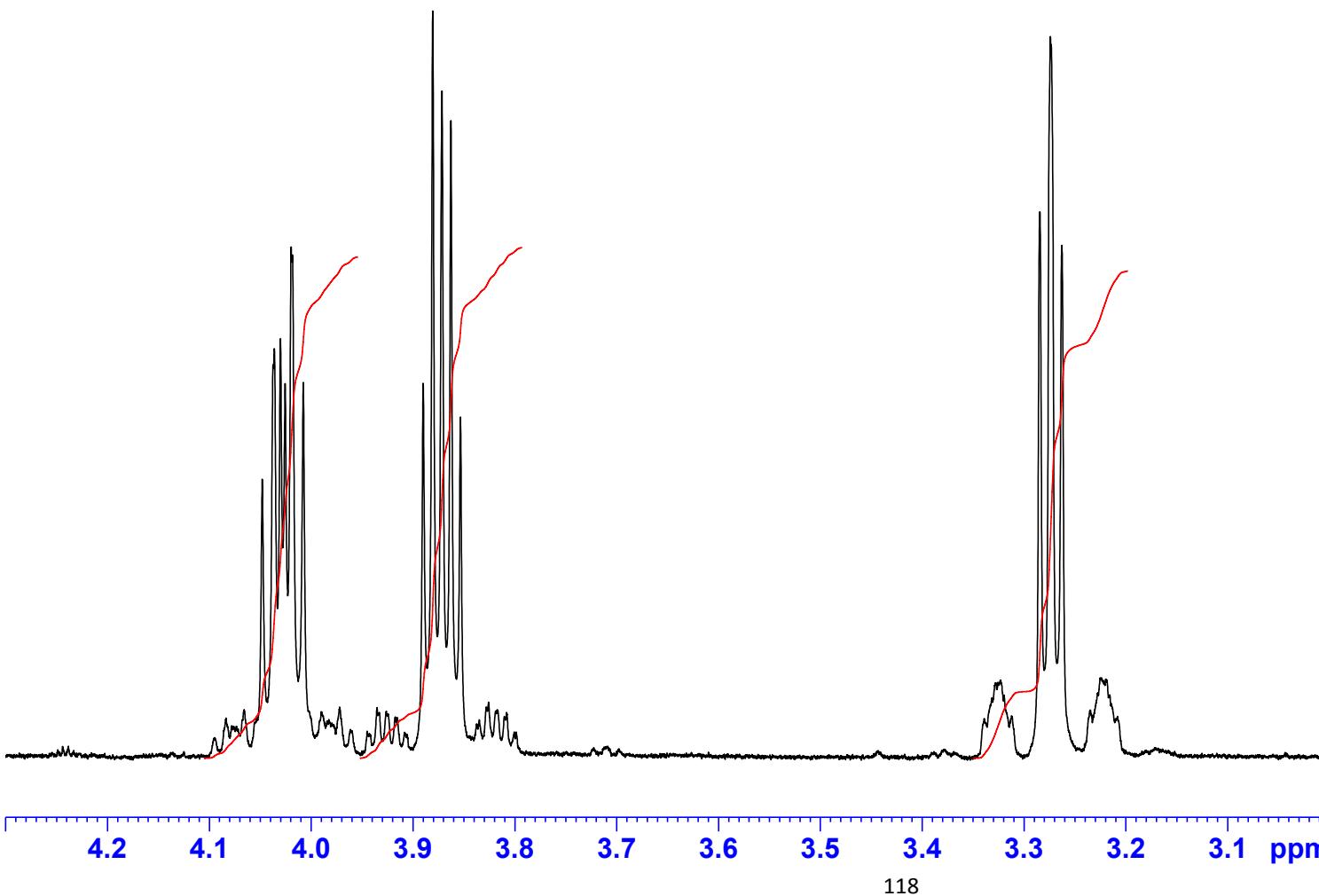
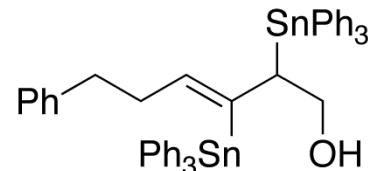
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SF 600.1300225 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

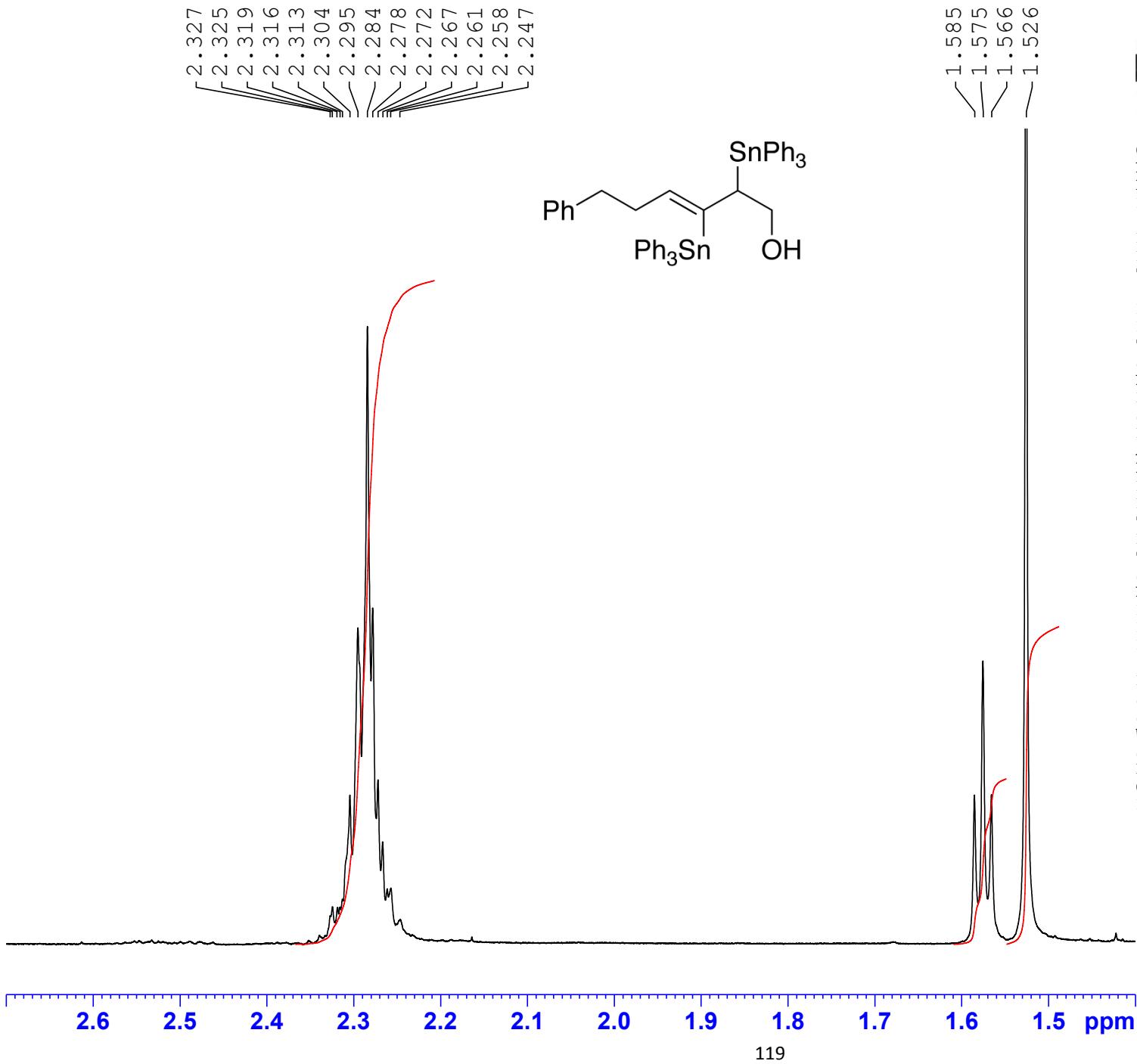


Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
 INSTRUM spect
 PROBHD Z114607_0188 (zg30
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
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 SF 600.1300225 MHz
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 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

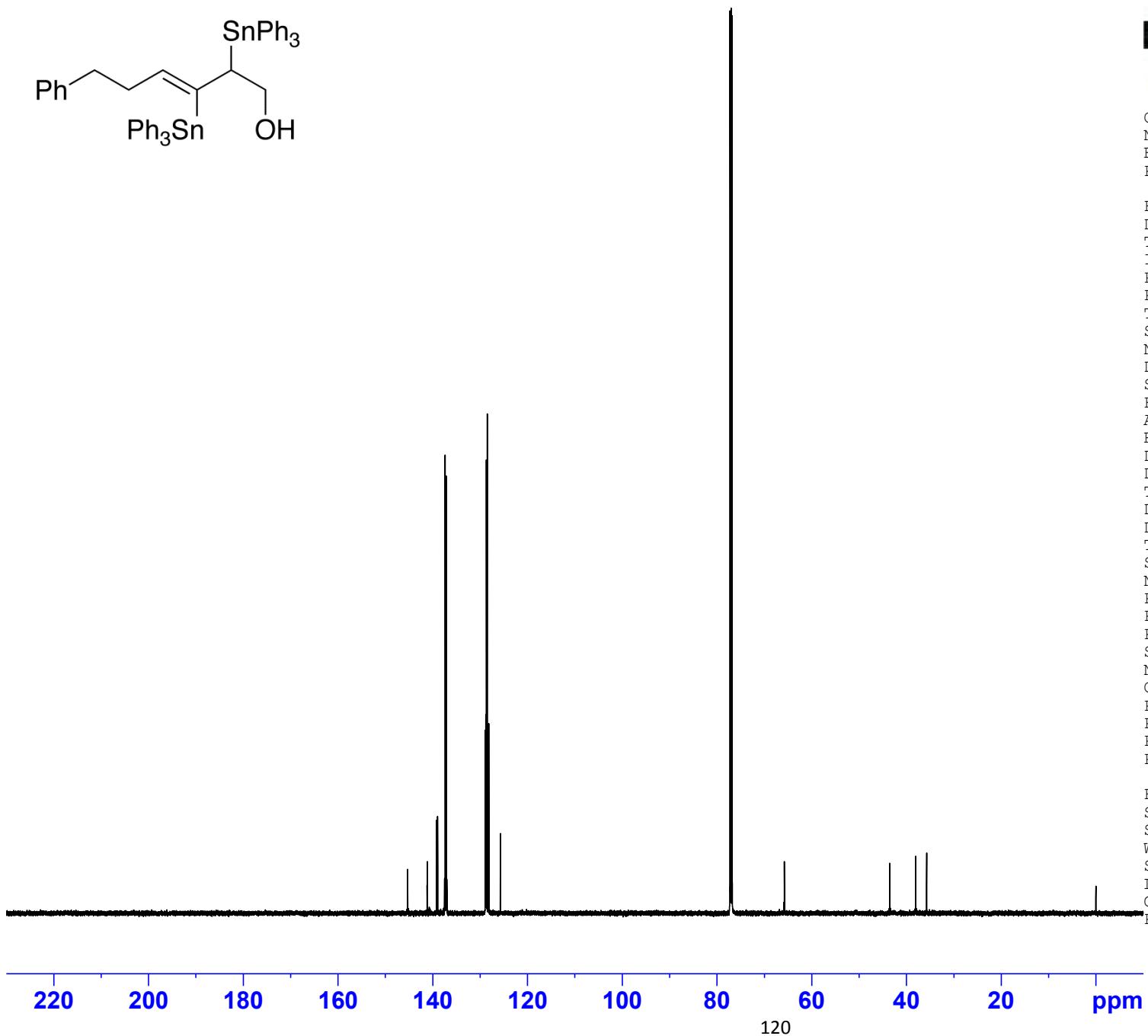
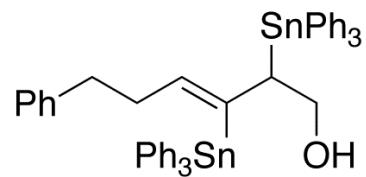




Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 14.18 h
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 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.200003 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 8.00 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1
 SFO1 600.1337060 MHz
 NUC1 1H
 P0 3.33 usec
 P1 10.00 usec
 PLW1 26.60000038 W

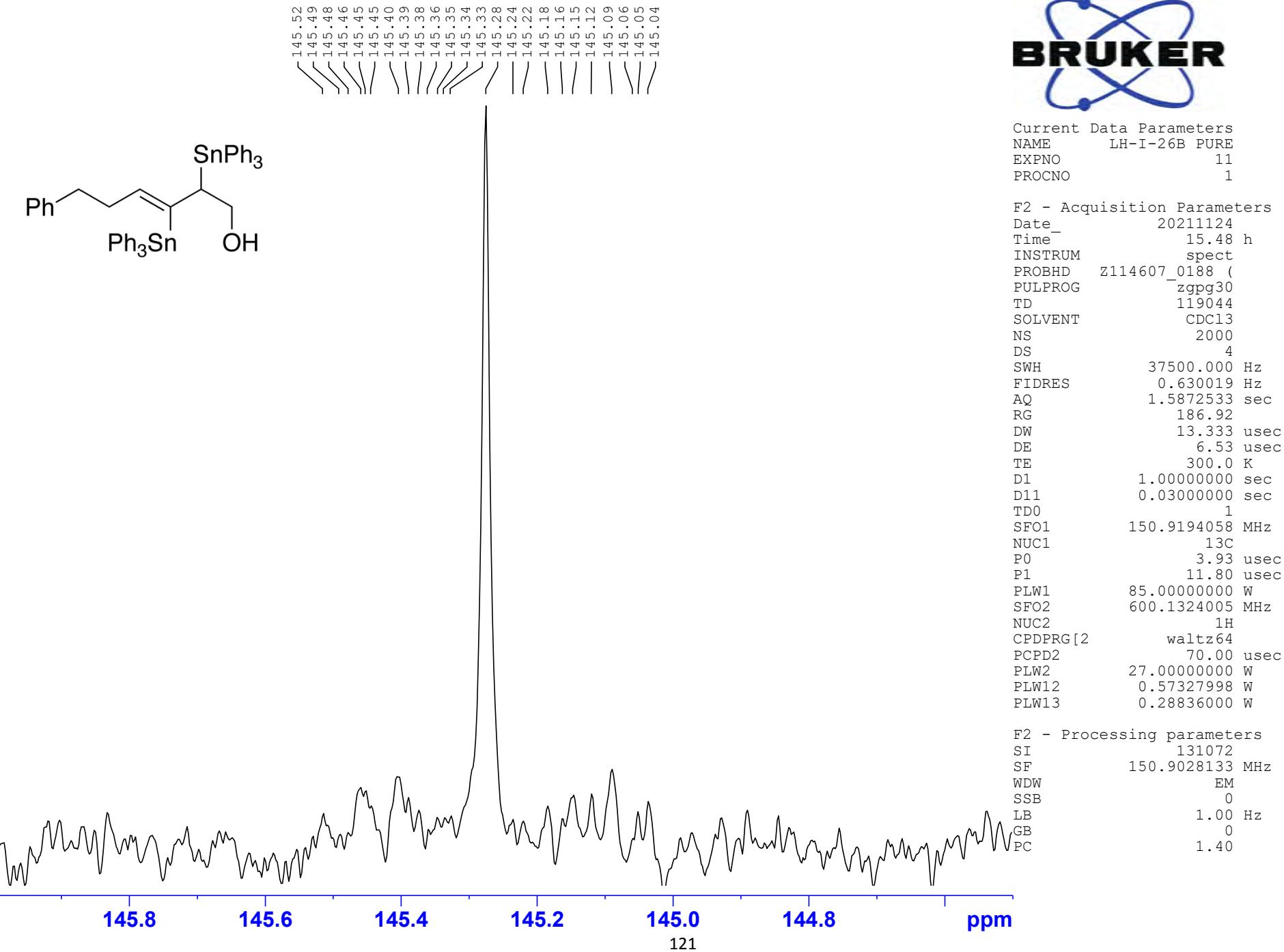
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 SF 600.1300225 MHz
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 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

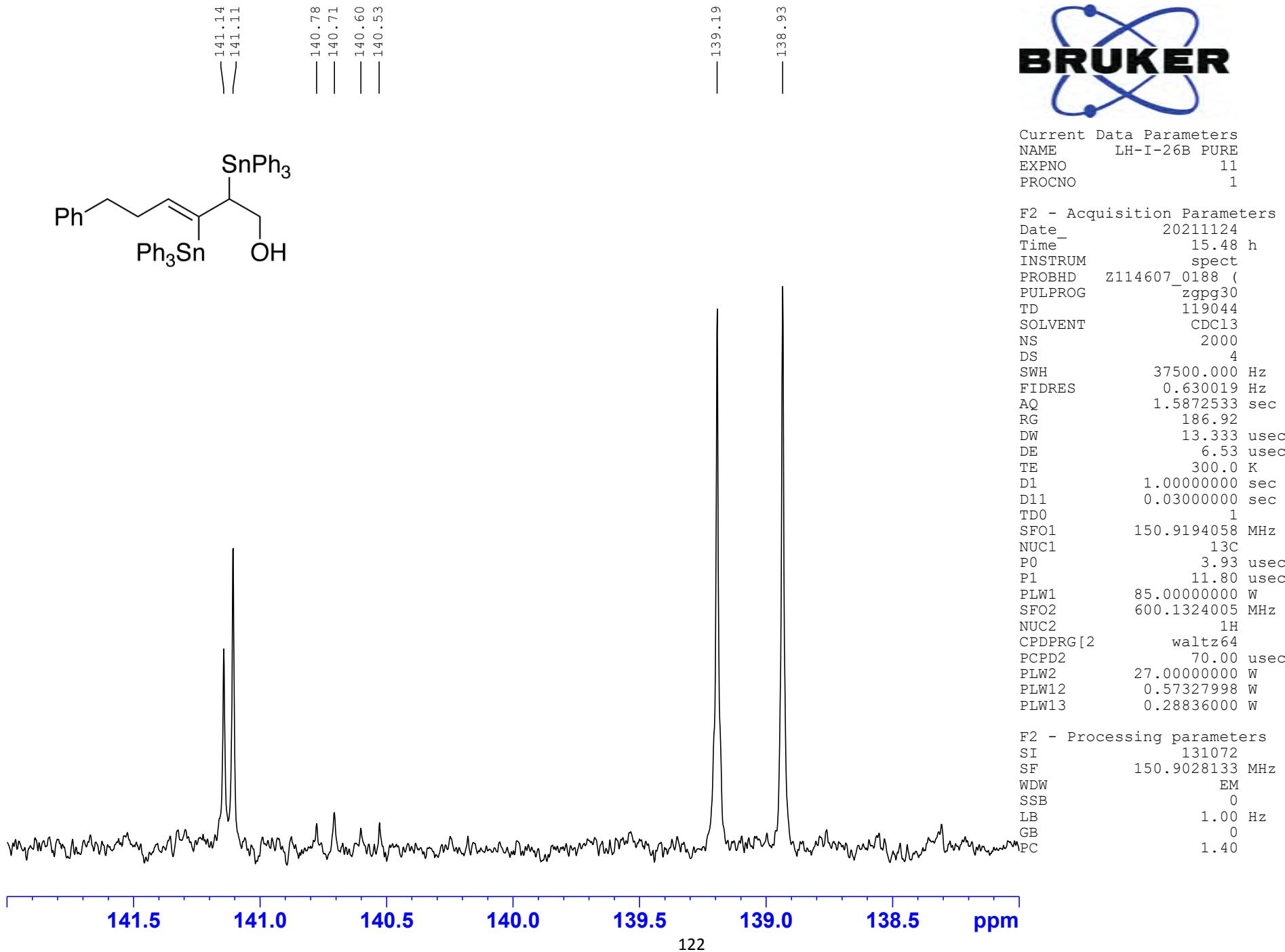


Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 11
 PROCNO 1

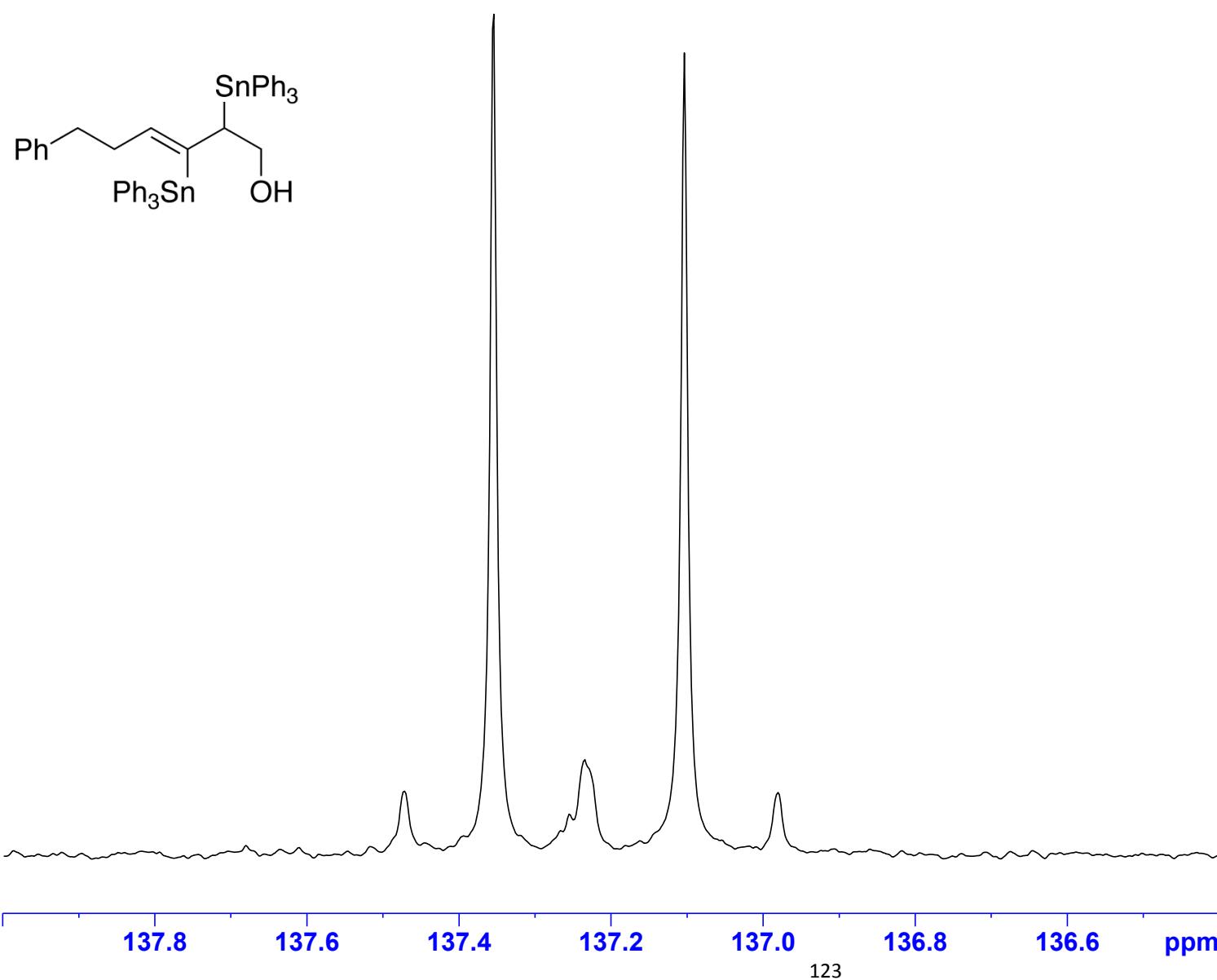
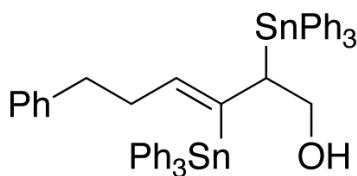
F2 - Acquisition Parameters
 Date 20211124
 Time 15.48 h
 INSTRUM spect
 PROBHD Z114607_0188 (zgpg30
 PULPROG 119044
 TD 2000
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028133 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





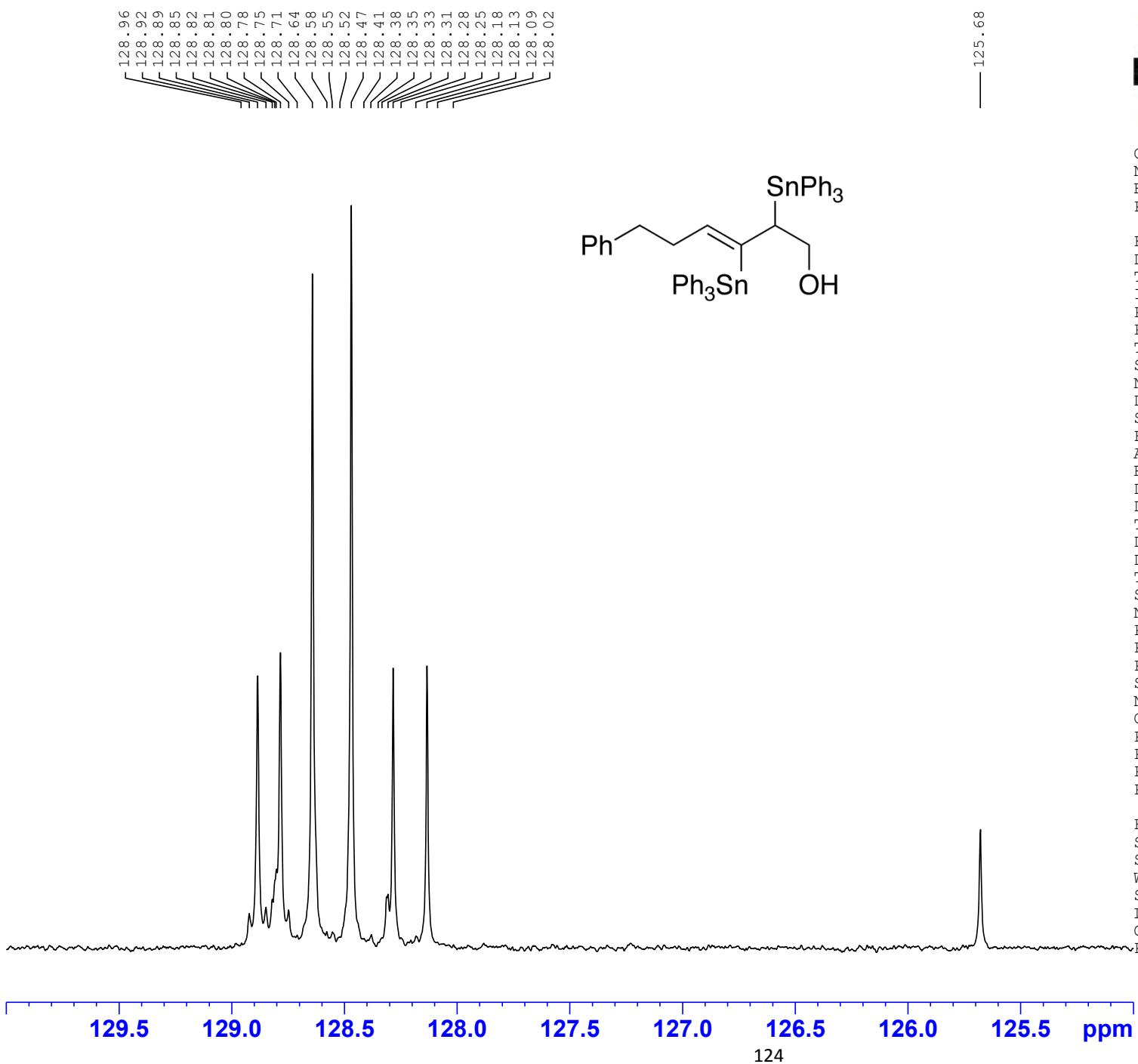
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 137.64
 137.61
 137.55
 137.52
 137.47
 137.45
 137.43
 137.41
 137.40
 137.35



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 15.48 h
 INSTRUM spect
 PROBHD Z114607_0188 (zgpg30
 PULPROG 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 ¹³C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

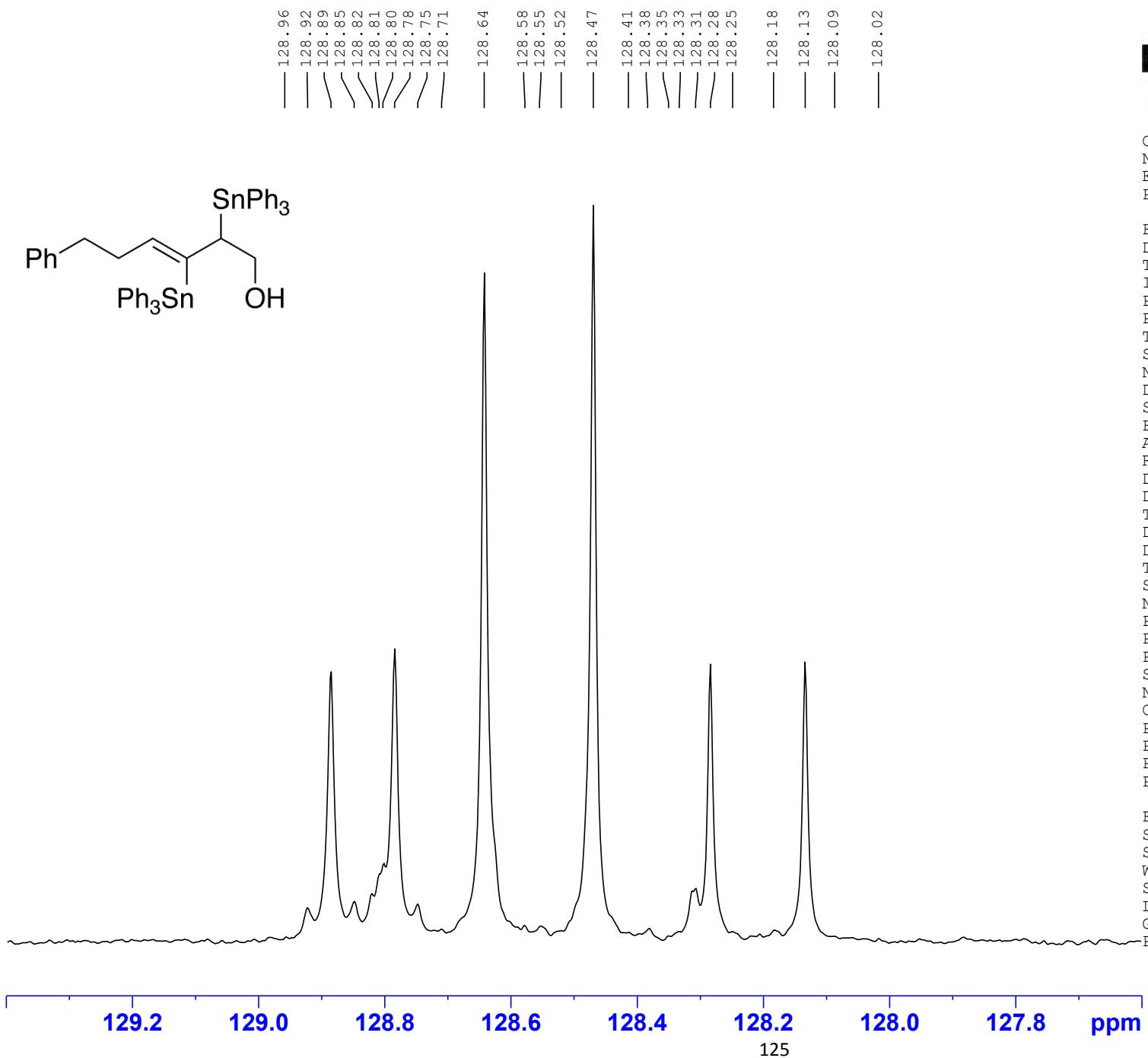
F2 - Processing parameters
 SI 131072
 SF 150.9028133 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 15.48 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

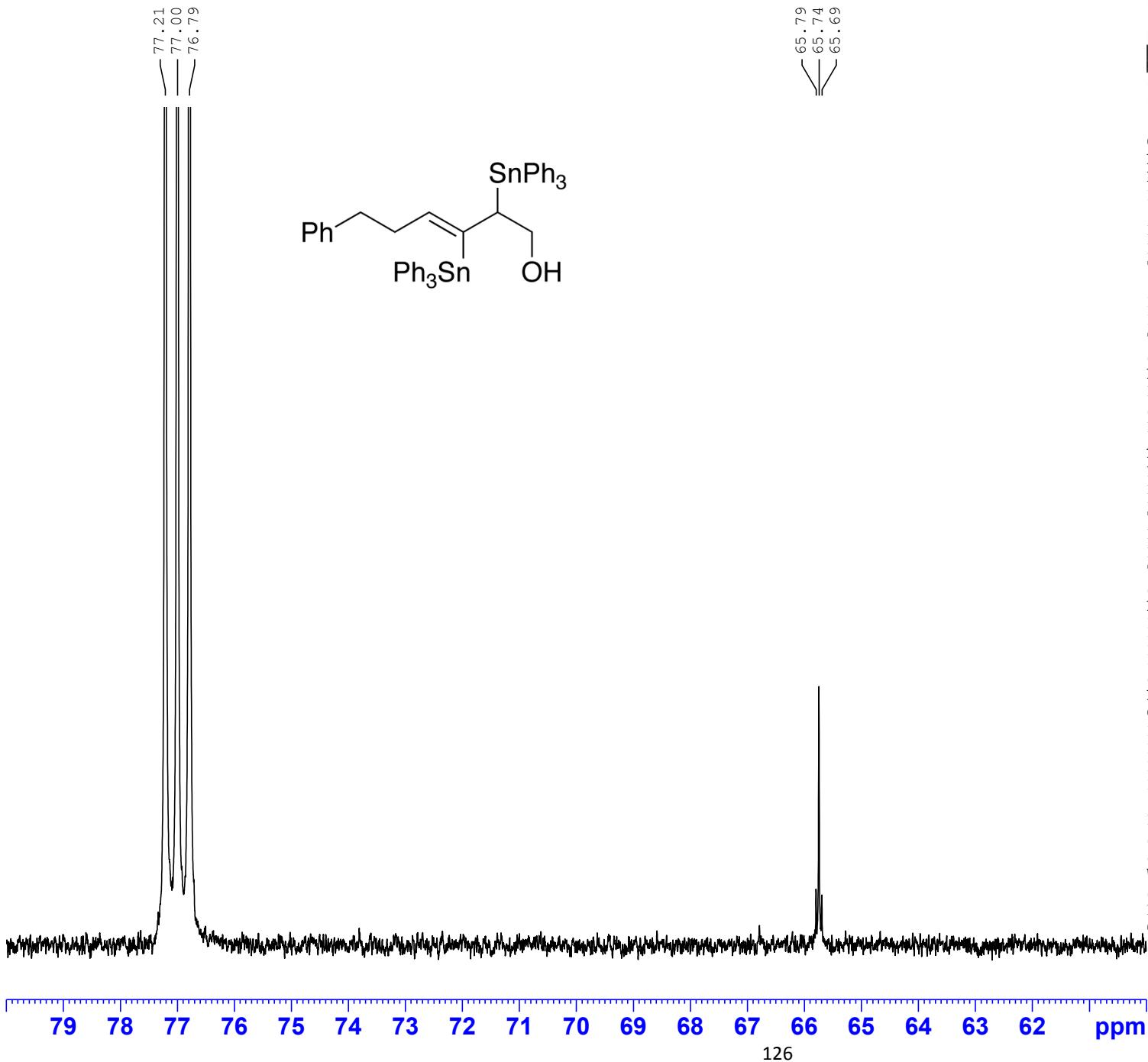
F2 - Processing parameters
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 SF 150.9028133 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 15.48 h
 INSTRUM spect
 PROBHD Z114607_0188 (zgpg30
 PULPROG 119044
 TD 2000
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

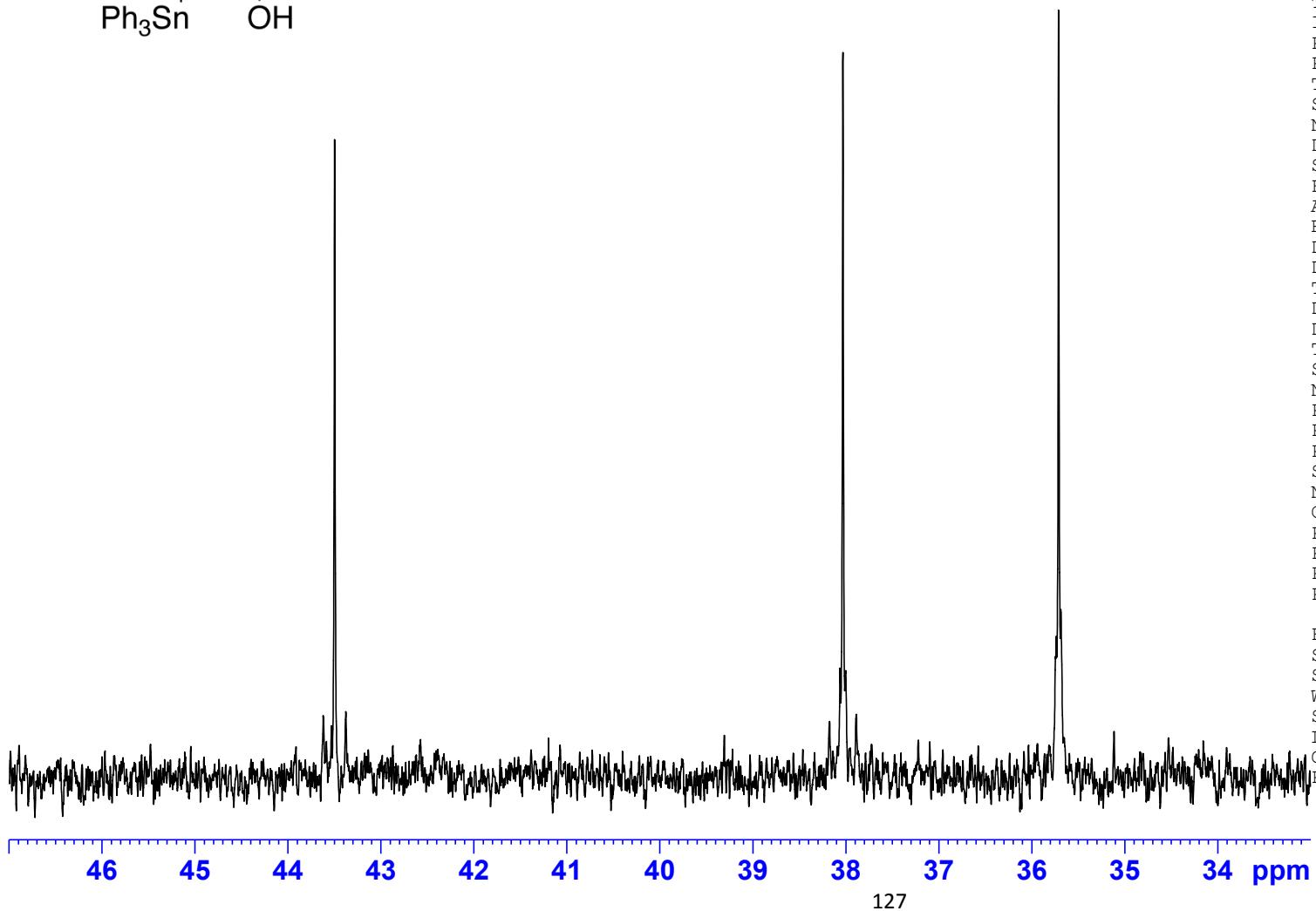
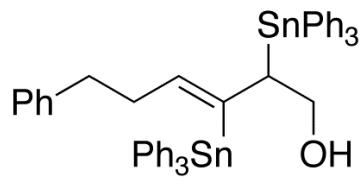
F2 - Processing parameters
 SI 131072
 SF 150.9028133 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 15.48 h
 INSTRUM spect
 PROBHD Z114607_0188 (zgpg30
 PULPROG 119044
 TD 119044
 SOLVENT CDCl3
 NS 2000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.630019 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 6.53 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 150.9194058 MHz
 NUC1 13C
 P0 3.93 usec
 P1 11.80 usec
 PLW1 85.00000000 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W
 PLW13 0.28836000 W

F2 - Processing parameters
 SI 131072
 SF 150.9028133 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



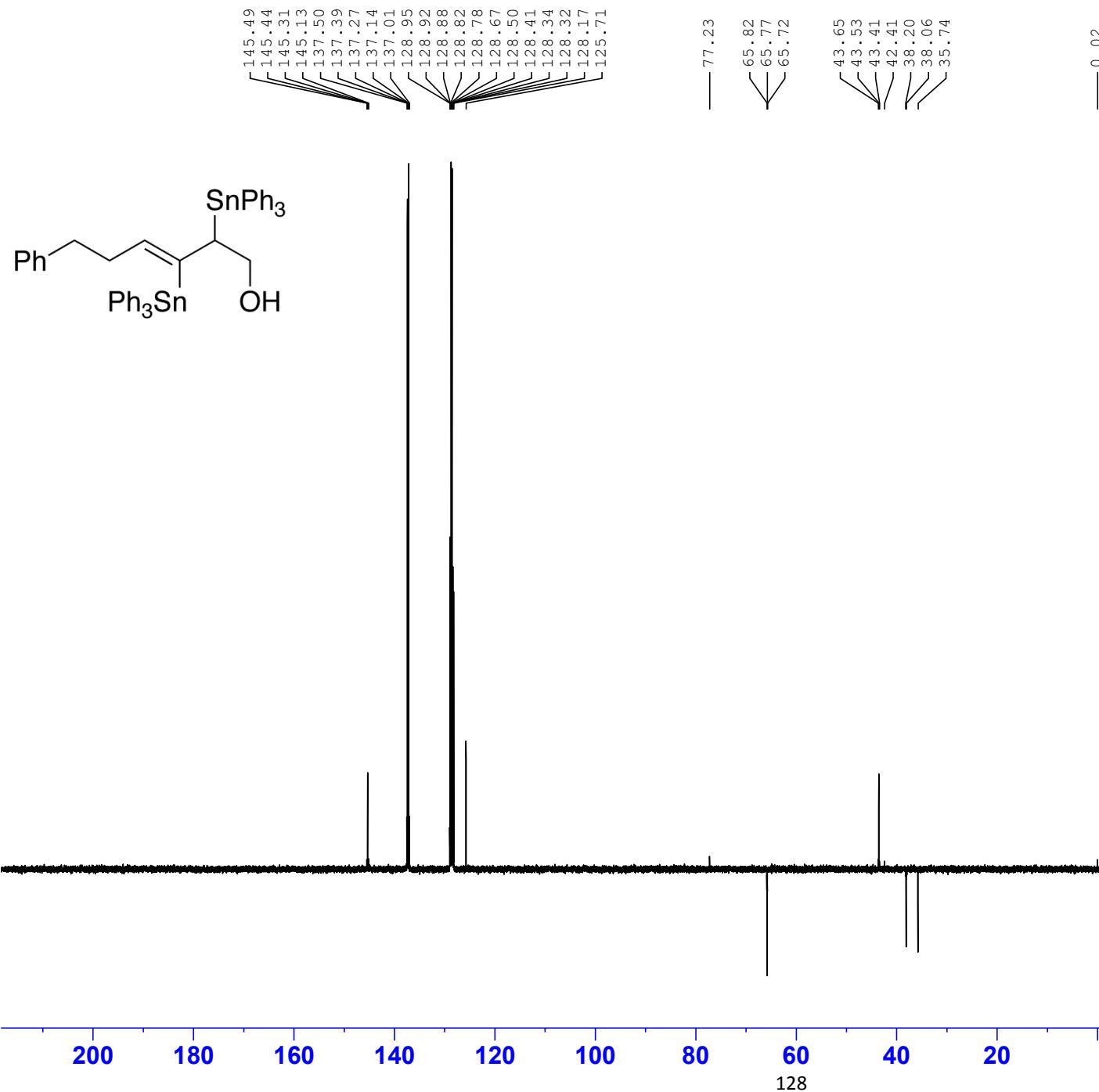
Current Data Parameters
NAME LH-I-26B PURE
EXPNO 11
PROCNO 1

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F2 - Acquisition Parameters
Date_           20211124
Time_          15.48 h
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PROBHD        Z114607_0188 (
PULPROG       zgpg30
TD             119044
SOLVENT        CDCl3
NS              2000
DS                 4
SWH            37500.000 Hz
FIDRES       0.630019 Hz
AQ            1.5872533 sec
RG             186.92
DW             13.333 usec
DE               6.53 usec
TE             300.0 K
D1           1.000000000 sec
D11          0.030000000 sec
TD0                  1
SFO1         150.9194058 MHz
NUC1           13C
P0              3.93 usec
P1              11.80 usec
PLW1         85.000000000 W
SFO2         600.1324005 MHz
NUC2           1H
CPDPRG[2]     waltz64
PCPD2          70.00 usec
PLW2         27.000000000 W
PLW12          0.57327998 W
PLW13          0.28836000 W

F2 - Processing parameters
SI              131072
SF            150.9028133 MHz
WDW                EM
SSB                  0
LB              1.00 Hz
GB                  0
PC                1.40

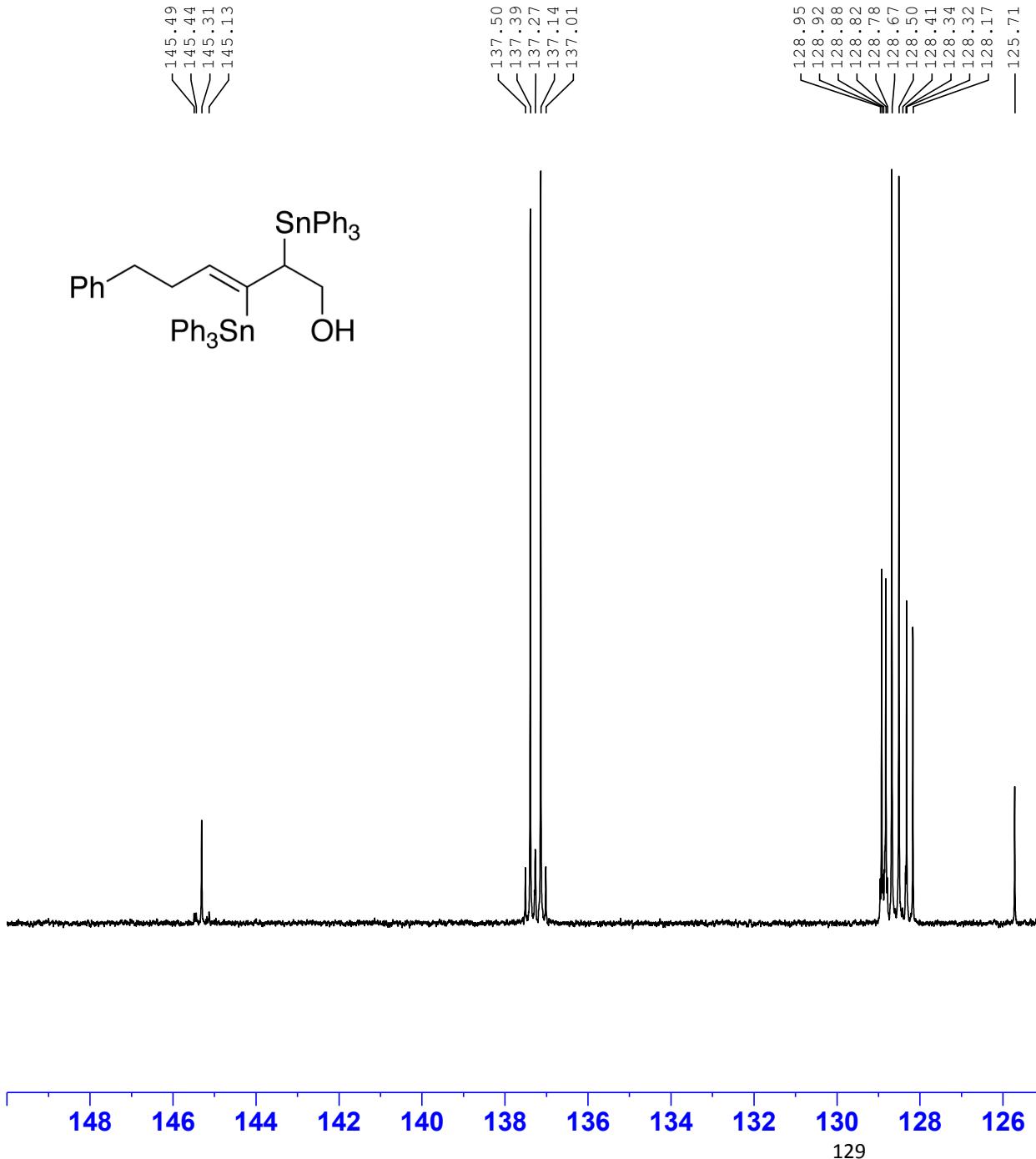
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Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 16.33 h
 INSTRUM spect
 PROBHD Z114607_0188 (PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TDO 1
 SFO1 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 18.08300018 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

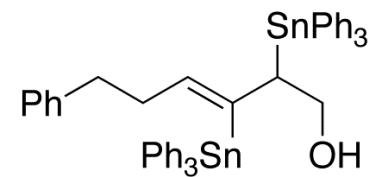
F2 - Processing parameters
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 SF 150.9028085 MHz
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 LB 1.00 Hz
 GB 0
 PC 1.40



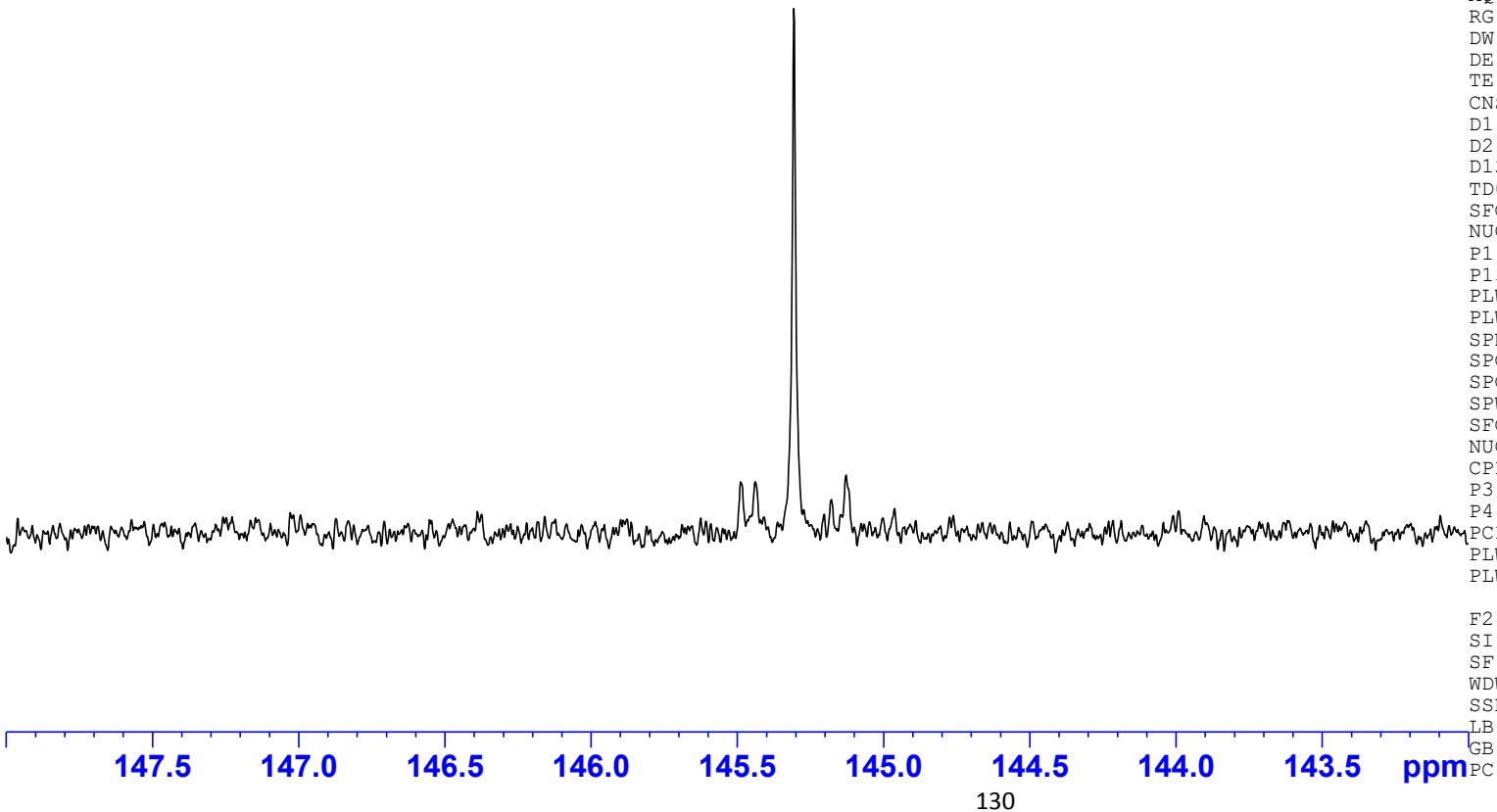
Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 16.33 h
 INSTRUM spect
 PROBHD Z114607_0188 (b
 PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TDO 1
 SFO1 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 18.08300018 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

F2 - Processing parameters
 SI 131072
 SF 150.9028085 MHz
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 SSB 0
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 PC 1.40



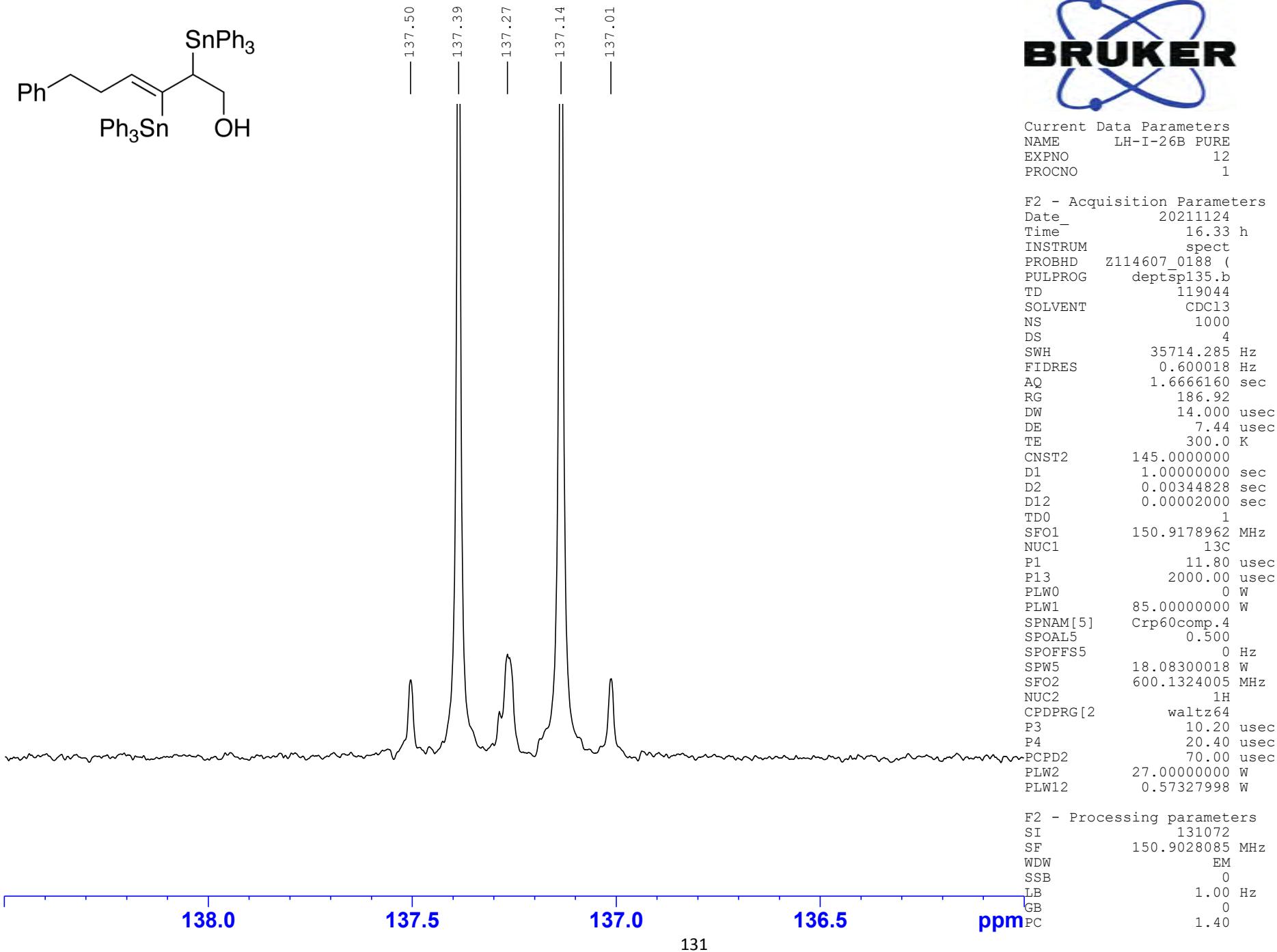
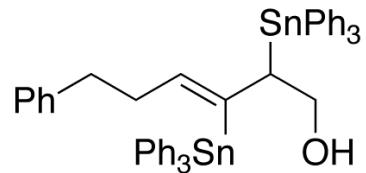
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|| 145.44
| 145.31
— 145.13

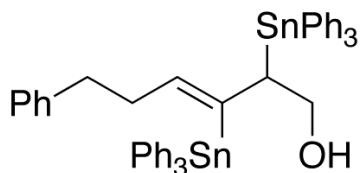
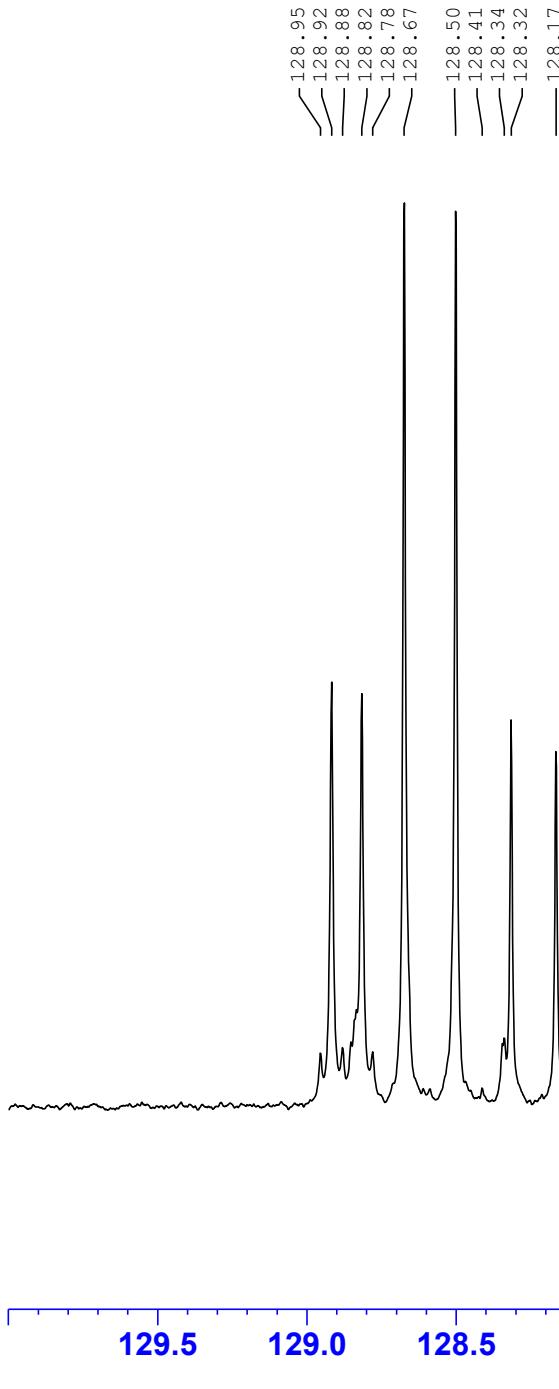


Current Data Parameters
NAME LH-I-26B PURE
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211124
Time 16.33 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG deptsp135.b
TD 119044
SOLVENT CDCl3
NS 1000
DS 4
SWH 35714.285 Hz
FIDRES 0.600018 Hz
AQ 1.6666160 sec
RG 186.92
DW 14.000 usec
DE 7.44 usec
TE 300.0 K
CNST2 145.0000000
D1 1.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 150.9178962 MHz
NUC1 13C
P1 11.80 usec
P13 2000.00 usec
PLW0 0 W
PLW1 85.00000000 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 18.08300018 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
P3 10.20 usec
P4 20.40 usec
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W

F2 - Processing parameters
SI 131072
SF 150.9028085 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





125.71



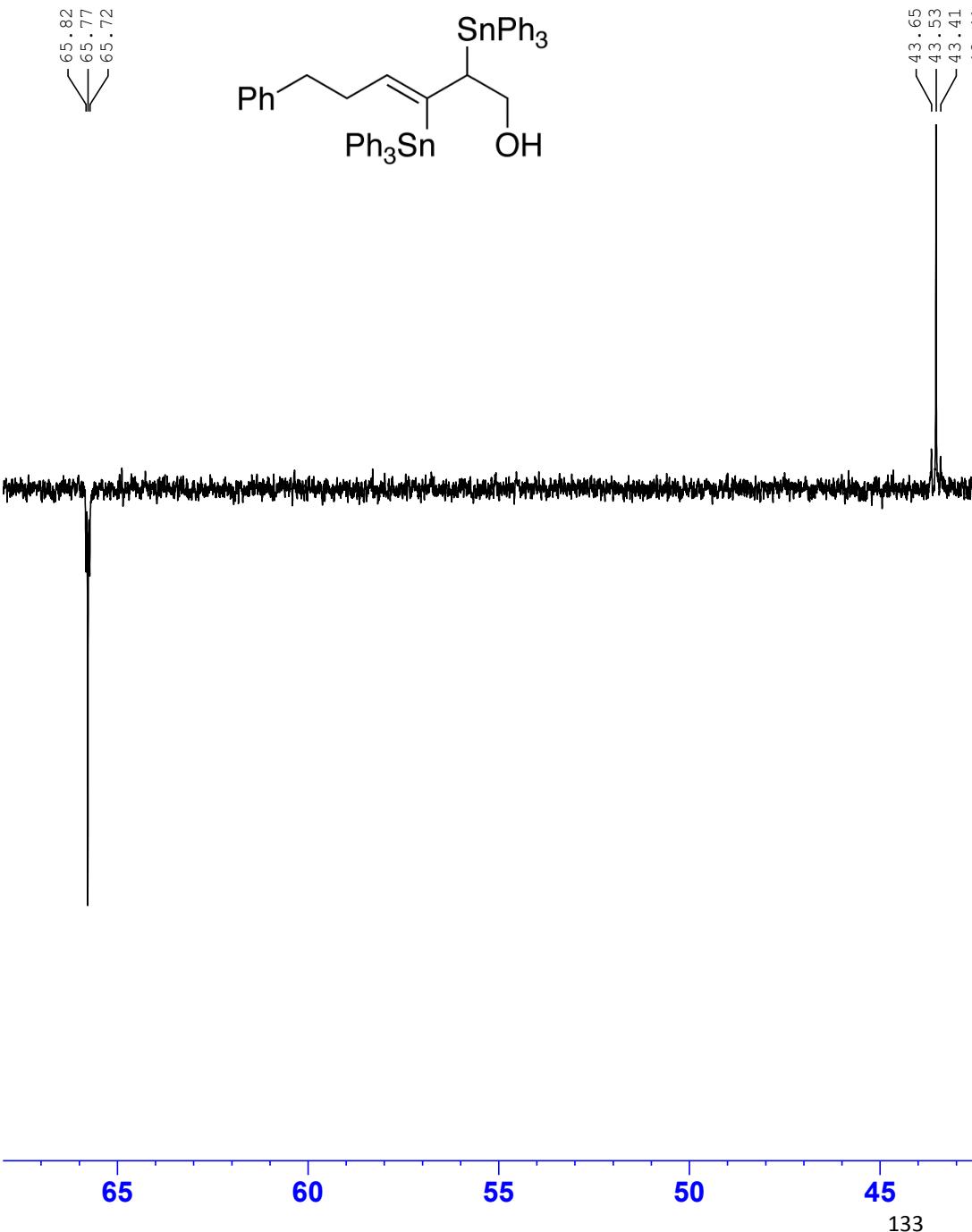
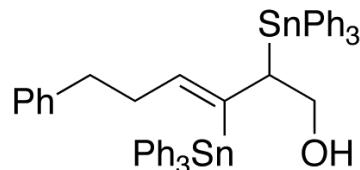
Current Data Parameters
NAME LH-I-26B PURE
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211124
Time 16.33 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG deptsp135.b
TD 119044
SOLVENT CDCl3
NS 1000
DS 4
SWH 35714.285 Hz
FIDRES 0.600018 Hz
AQ 1.6666160 sec
RG 186.92
DW 14.000 usec
DE 7.44 usec
TE 300.0 K
CNST2 145.0000000
D1 1.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 150.9178962 MHz
NUC1 13C
P1 11.80 usec
P13 2000.00 usec
PLW0 0 W
PLW1 85.00000000 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 18.08300018 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
P3 10.20 usec
P4 20.40 usec
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W

F2 - Processing parameters
SI 131072
SF 150.9028085 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

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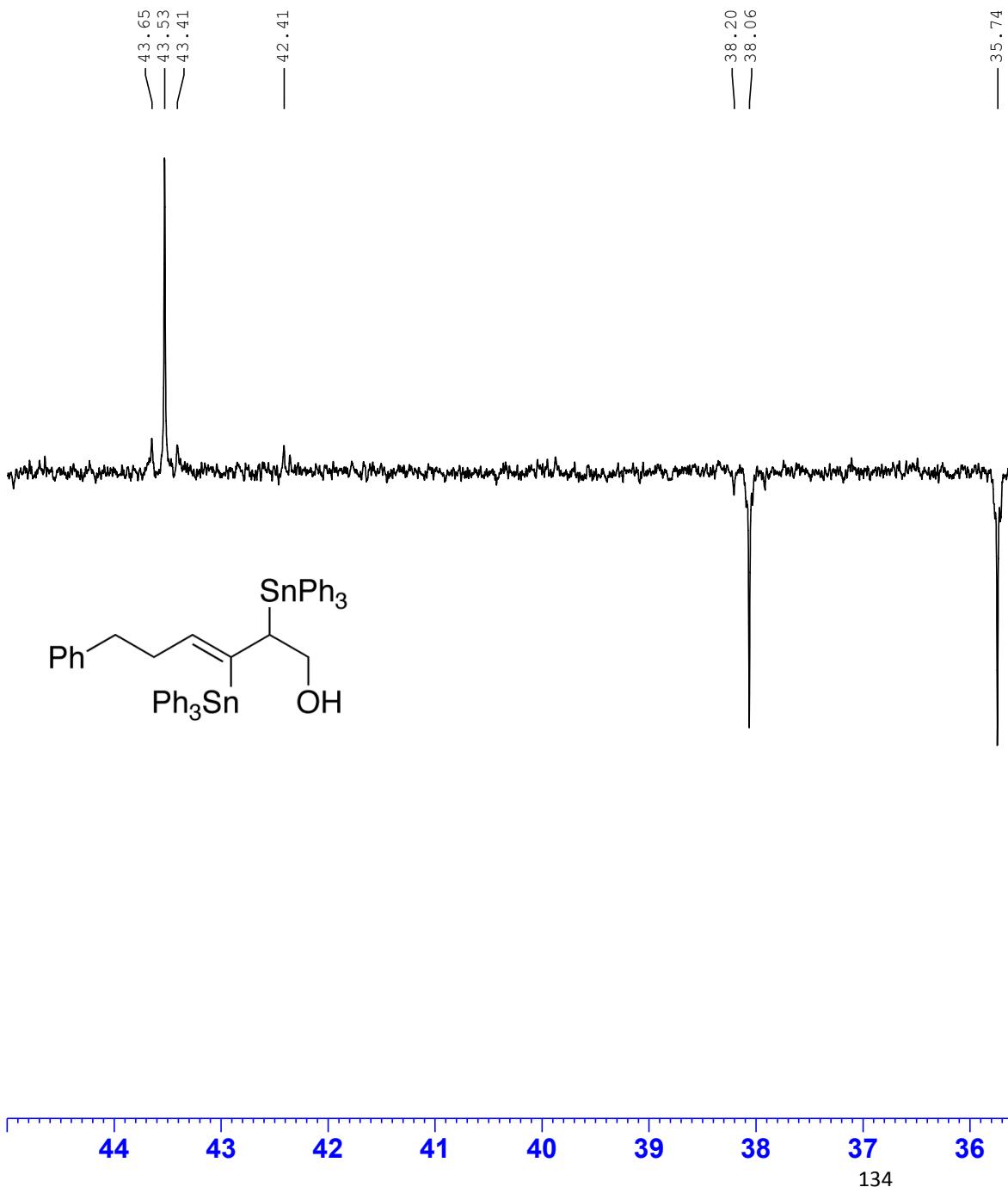
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Current Data Parameters
NAME LH-I-26B PURE
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211124
Time 16.33 h
INSTRUM spect
PROBHD Z114607_0188 (PULPROG deptsp135.b
TD 119044
SOLVENT CDCl₃
NS 1000
DS 4
SWH 35714.285 Hz
FIDRES 0.600018 Hz
AQ 1.6666160 sec
RG 186.92
DW 14.000 usec
DE 7.44 usec
TE 300.0 K
CNST2 145.0000000
D1 1.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1
SFO1 150.9178962 MHz
NUC1 ¹³C
P1 11.80 usec
P13 2000.00 usec
PLW0 0 W
PLW1 85.00000000 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 18.08300018 W
SFO2 600.1324005 MHz
NUC2 ¹H
CPDPRG[2] waltz64
P3 10.20 usec
P4 20.40 usec
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.57327998 W

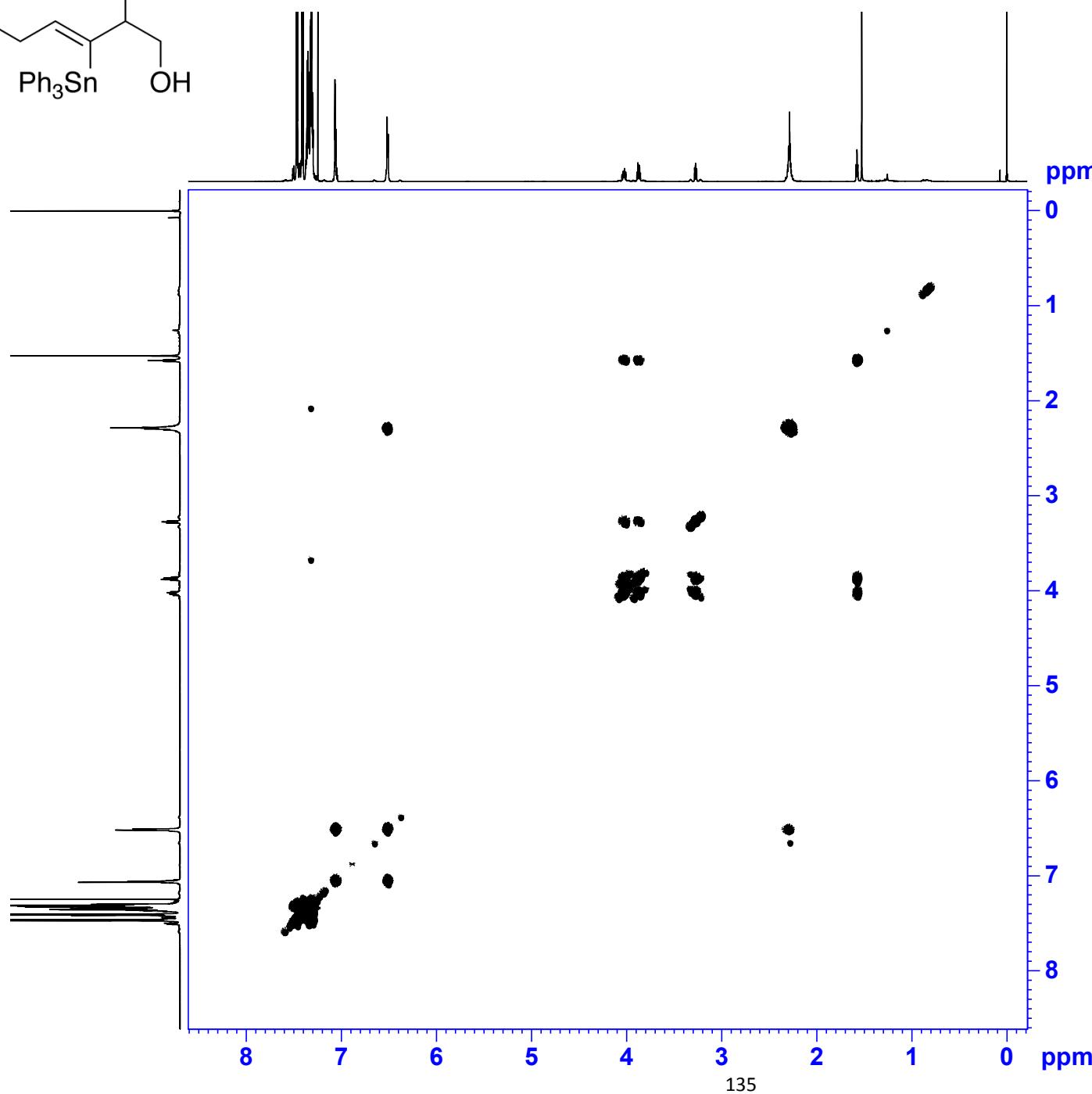
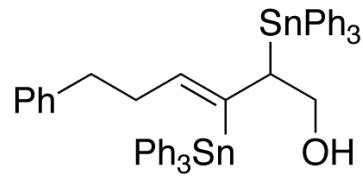
F2 - Processing parameters
SI 131072
SF 150.9028085 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
1.40



Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211124
 Time 16.33 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG deptsp135.b
 TD 119044
 SOLVENT CDCl3
 NS 1000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.600018 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TDO 1
 SFO1 150.9178962 MHz
 NUC1 13C
 P1 11.80 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 85.00000000 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 18.08300018 W
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 70.00 usec
 PLW2 27.00000000 W
 PLW12 0.57327998 W

F2 - Processing parameters
 SI 131072
 SF 150.9028085 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



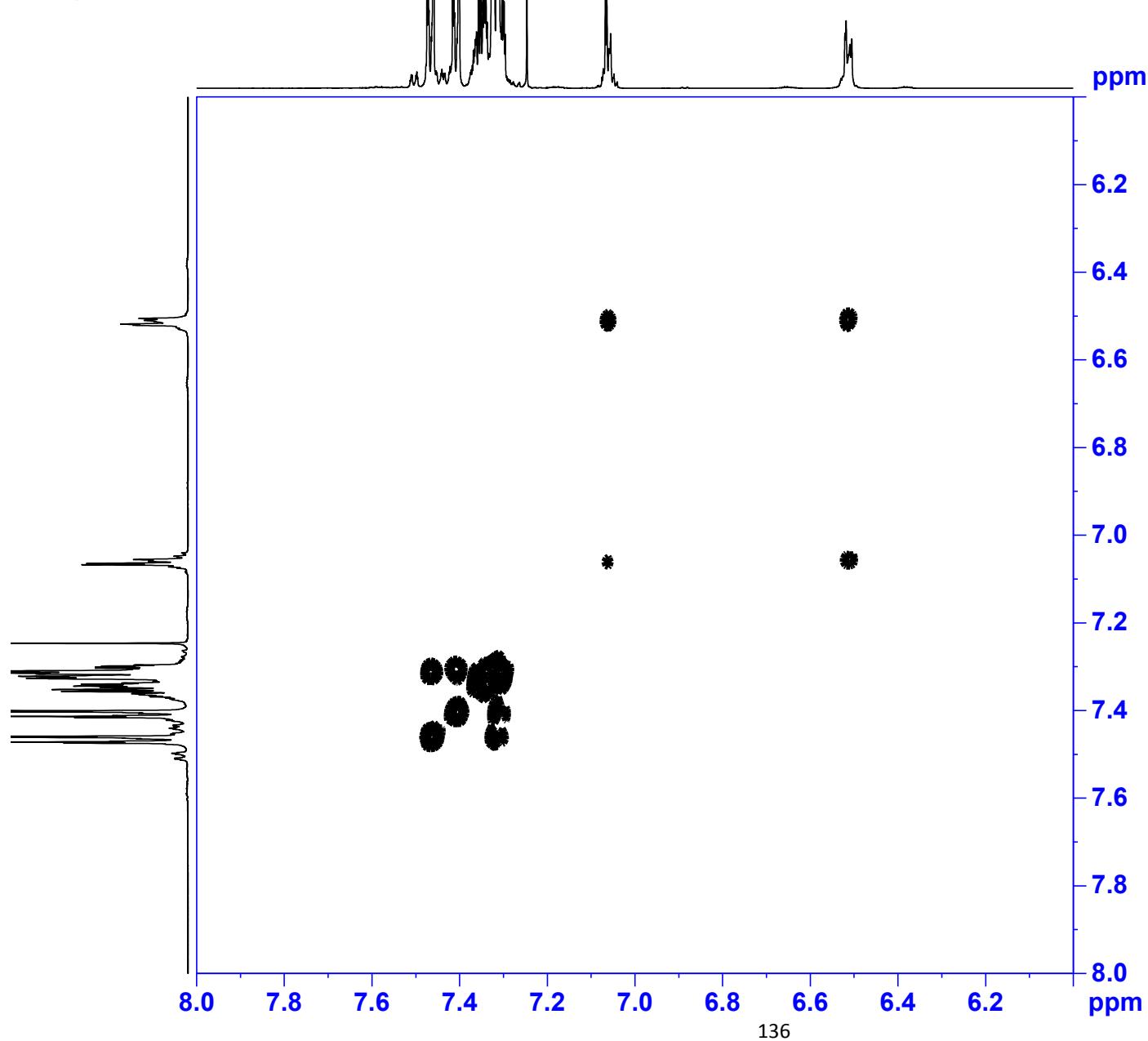
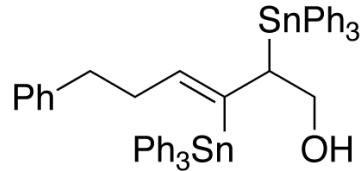
Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211124
 Time 16.44 h
 INSTRUM spect
 PROBHD Z114607_0188 (
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 2
 DS 8
 SWH 5296.610 Hz
 FIDRES 5.172471 Hz
 AQ 0.1933312 sec
 RG 186.92
 DW 94.400 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.86483133 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00018860 sec
 TDav 1
 SFO1 600.1325431 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 4.25600004 W
 GPNAM[1] SMSQ10.100
 GPZ1 16.00 %
 GPNAM[2] SMSQ10.100
 GPZ2 12.00 %
 GPNAM[3] SMSQ10.100
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1325 MHz
 FIDRES 41.423649 Hz
 SW 8.835 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300239 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300234 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



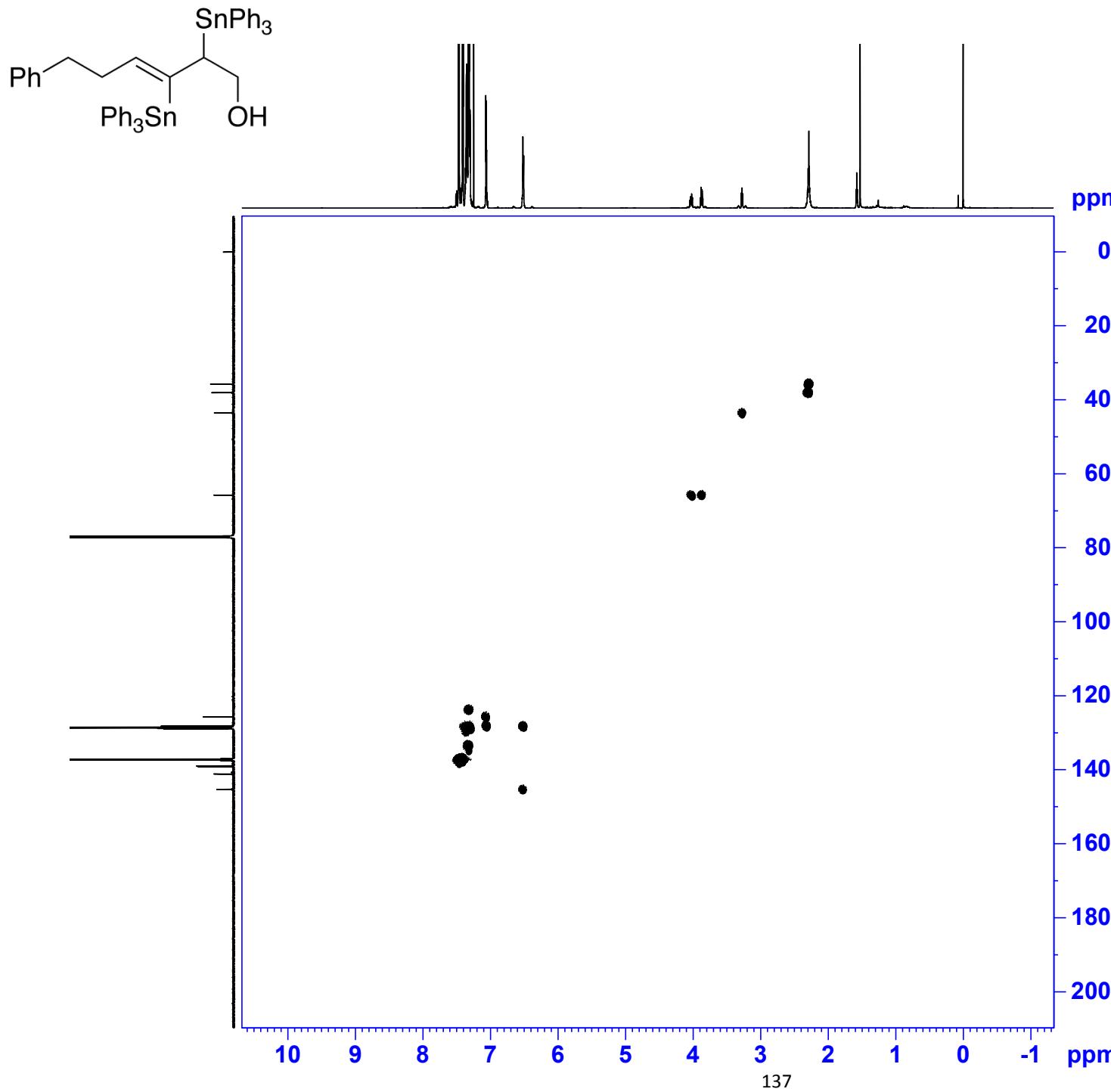
Current Data Parameters
NAME LH-I-26B PURE
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date 20211124
Time 16.44 h
INSTRUM spect
PROBHD Z114607_0188 (
PULPROG cosygpmfpqf
TD 2048
SOLVENT CDCl3
NS 2
DS 8
SWH 5296.610 Hz
FIDRES 5.172471 Hz
AQ 0.1933312 sec
RG 186.92
DW 94.400 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.86483133 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.000020000 sec
IN0 0.00018860 sec
TDav 1
SFO1 600.1325431 MHz
NUC1 1H
P1 10.00 usec
P17 2500.00 usec
PLW1 26.60000038 W
PLW10 4.25600004 W
GPNAM[1] SMSQ10.100
GPZ1 16.00 %
GPNAM[2] SMSQ10.100
GPZ2 12.00 %
GPNAM[3] SMSQ10.100
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 600.1325 MHz
FIDRES 41.423649 Hz
SW 8.835 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 600.1300239 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 600.1300234 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0



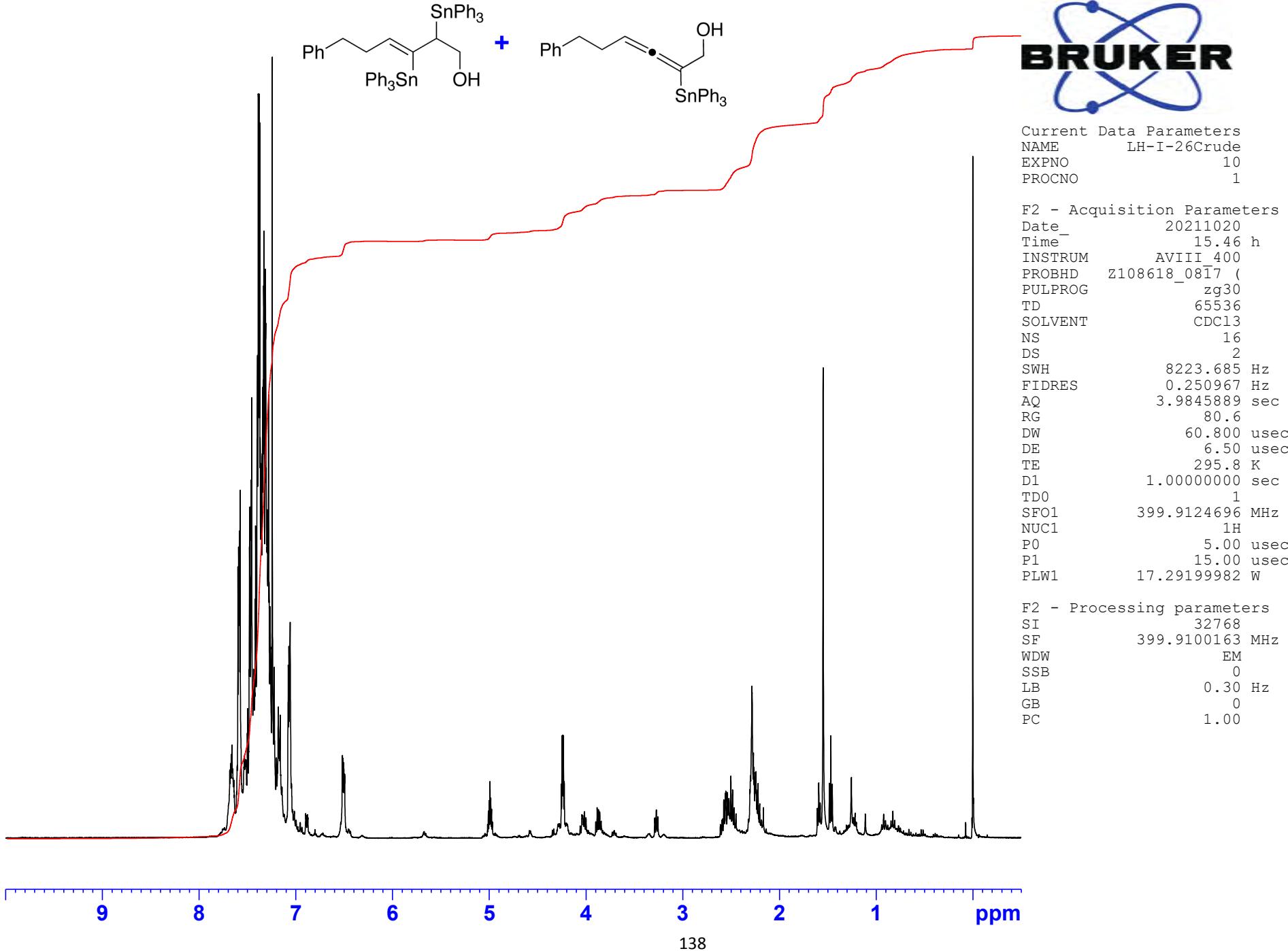
Current Data Parameters
 NAME LH-I-26B PURE
 EXPNO 14
 PROCNO 1

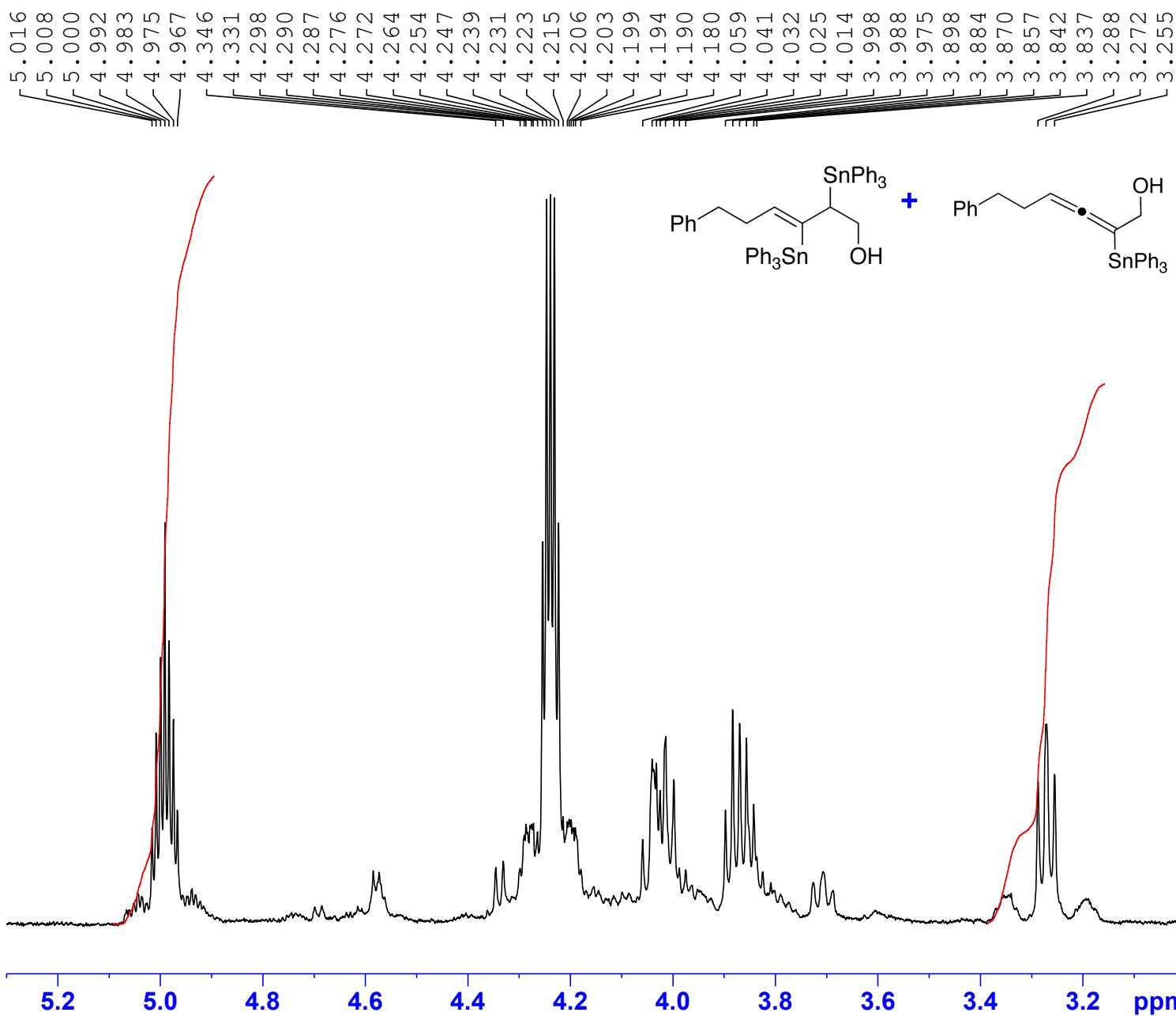
F2 - Acquisition Parameters
 Date_ 20211124
 Time_ 16.53 h
 INSTRUM spect
 PROBHD Z114607.0188 (PULPROG hsqcetdppsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 7211.539 Hz
 FIDRES 14.085036 Hz
 AQ 0.0709973 sec
 RG 186.92
 DW 69.333 usec
 DE 6.50 usec
 TE 300.3 K
 CNST2 145.000000
 D0 0.00000300 sec
 D1 0.80000001 sec
 D4 0.00172414 sec
 D11 0.03000000 sec
 D16 0.00020000 sec
 D21 0.00360000 sec
 I0 0.00001510 sec
 TDav 1
 ZGOPTNS 600.1328223 MHz
 SFO1 600.1328223 MHz
 NUC1 1H
 P1 10.00 usec
 P2 20.00 usec
 PLW1 26.60000038 W
 SFO2 150.9178988 MHz
 NUC2 13C
 CPDPRG[2] gsrp4
 P3 11.4 usec
 P14 500.00 usec
 P31 1730.00 usec
 PCPD2 60.00 usec
 PLW0 0 W
 PLW2 85.00000000 W
 PLW12 3.28760004 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 18.08300018 W
 SPNAM[18] Crp60_xfilt,2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 5.22629976 W
 GPNAM[1] SMSQ10.100
 GP21 80.00 %
 GPNAM[2] SMSQ10.100
 GP22 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 150.9179 MHz
 FIDRES 258.692047 Hz
 SW 219.408 ppm
 FnMODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 600.1300195 MHz
 WDW QSINE
 SSB 2
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024





Current Data Parameters
 NAME LH-I-26Crude
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211020
 Time 15.46 h
 INSTRUM AVIII_400
 PROBHD Z108618_0817 (zg30
 PULPROG zg30
 TD 65536
 SOLVENT CDCl₃
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.250967 Hz
 AQ 3.9845889 sec
 RG 80.6
 DW 60.800 usec
 DE 6.50 usec
 TE 295.8 K
 D1 1.00000000 sec
 TD0 1
 SFO1 399.9124696 MHz
 NUC1 1H
 P0 5.00 usec
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100163 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00