

Total Synthesis of the HDAC inhibitor, (+)-(R)- Trichostatin A, via O-Directed Dialkylacetylene Free Radical Hydrostannation with Ph₃SnH/Et₃B. The Unusual Inhibitory Effect of a Proximal α -OPv group on the Course of a Vinyl Iodide Stille Cross- Coupling

Ke Pan,^a Soraya Manaviazar,^{*a,b} and Karl J. Hale^{*a,b}

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

^b*Current Address: Halazar Pharma Ltd,
Edgware, Middlesex, HA8 7RB, United Kingdom.*

Email for correspondence: k.hale120@btinternet.com

Electronic Supplementary Information (297 Pages Inclusive of Cover Pages)

Dedicated with admiration and respect to the memory of the great Professor Amos B. Smith III (2014 William H. Nichols Gold Medallist, 2015 RSC Perkin Prize Winner, 2009 RSC Simonsen Medallist, and 2002 RSC Centenary Prize Medallist) in recognition of his numerous magnificent achievements in complex natural product total synthesis, new synthetic methodology development, materials science, and his rational design of a totally new class of HIV-1-neutralising drugs. Sadly, Professor Smith passed away on the morning of Monday February 3rd, 2025, aged 80 years. His landmark contributions to the field of organic synthesis and medicinal chemistry will continue to serve as a source of much future inspiration to us all. He will forever be missed by his many friends, former students, postdoctoral fellows, Associate Editors, and admirers within the world of organic chemistry. Professor Smith was recipient of the Order of the Rising Sun of Japan.

Index

Page 3	Part A. Experimental Procedures for the Synthesis of Propargyl Alcohol 15 and Additional Experimental Discussion
Page 4	General Information
Page 5	Experimental Procedures for the Synthesis of Propargyl Alcohol 15
Page 14	Extra Commentary on The O-Desilylation of Enantiomeric (-)- 25 to (-)-(S)- Trichostatin A in the Presence of 3Å Molecular Sieves
Page 16	Proof of the (6 <i>R</i>)-Stereochemistry and Optical Purity of Our Synthetic (+)- (<i>R</i>)-Trichostatin A (1a). Conversion of Our Synthetic (+)-Trichostatic Acid (22) into (+)-Trichostatin C (1b), and Synthetic Verification of the Structure Assigned to (+)-Trichostatin C (1b)
Page 20	Part B. Copies of the ¹ H NMR, ¹³ C NMR, IR and HRMS Spectra For All Synthetic Intermediates in the Route to (+)-(<i>R</i>)-Trichostatin A. Spectra for the (+)-(<i>R</i>)-Trichostatin C Synthesised from the (+)-(<i>R</i>)-Trichostatic Acid Prepared By This Route. TLC Analyses of Key Reactions

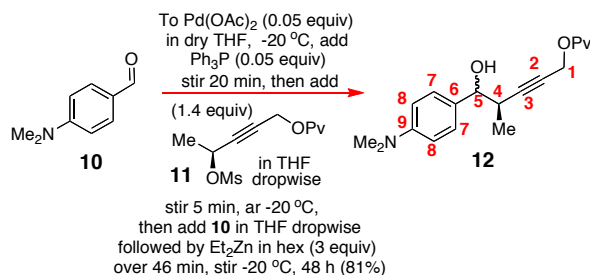
**Part A. Experimental Procedures for the Synthesis of
Propargyl Alcohol 15 and Additional Experimental
Discussion**

General Information

Unless stated otherwise, all the reactions in this total synthesis of (+)-(6*R*)-Trichostatin A were run in dry solvents under an N₂ atmosphere. Dry THF and CH₂Cl₂ were freshly distilled from CaH₂ under an N₂ atmosphere. Dry PhMe and MeOH were used as supplied by Sigma-Aldrich. All anhydrous solvents were taken out by dry syringe under an N₂ atmosphere. Ph₃SnH was purchased from Sigma-Aldrich and used as supplied; it was always handled in a glove-bag under N₂. SiO₂ flash chromatography was conducted with Fluorochem silica gel 60Å, and petrol refers to the 40-60 °C b.p. fraction; it was distilled prior to use for chromatography. HPLC grade EtOAc was used for all chromatographic purifications. TLC analysis and preparative TLC were performed on Merck glass-backed TLC plates coated with silica gel 60 F₂₅₄. NMR analyses were carried out using the QUB School of Chemistry Bruker Avance III HD Ascend 600 instrument operating at a frequency of 600.1337 MHz or on the two Bruker Ultrashield 400 NMR spectrometers operating at a frequency of 399.9025 and 400.11 MHz respectively. All ¹H NMR spectra recorded at these frequencies were referenced with respect the solvent peak at δ 7.26 ppm in CDCl₃, δ 3.31 ppm in CD₃OD-*d*₄ or δ 4.79 ppm in D₂O. ¹³C NMR spectra were recorded at the specified frequency, referenced upon the solvent peak at δ 77.0 ppm in CDCl₃ or δ 49.0 ppm in CD₃OD-*d*₄. For the NMR assignments of all the intermediates in this synthetic route, the numbering shown on each structure has been used. IR spectra were recorded on a Perkin – Elmer FT-IR instrument. All IR measurements were performed as neat films on NaCl plates. IR absorptions were recorded in cm⁻¹ and the intensity of the absorptions was recorded using following abbreviations: very w – very weak, w – weak, m – medium, s – strong, vs –very strong, br – broad.

Experimental Procedures for the Synthesis of Propargylic Alcohol **15**

Preparation of Marshall Adduct **12**



To a stirred -20°C solution of $\text{Pd}(\text{OAc})_2$ (0.17 g, 0.78 mmol, 0.05 equiv) in dry THF (32 mL) under N_2 was added Ph_3P (0.20 g, 0.78 mmol, 0.05 equiv) in one portion. Immediately the reaction mixture turned a yellow-brown colour. The resulting mixture was stirred for 20 min at -20°C , whereupon a solution of the freshly made chiral O-mesylate¹⁸ **11** (5.69 g, 21.71 mmol, 1.4 equiv) in dry THF (10 mL) was added dropwise via cannula. After stirring for 5 min, a solution of 4-dimethylaminobenzaldehyde **10** (2.31 g, 15.5 mmol) in THF (10 mL) was added dropwise via cannula. After 10 min, Et_2Zn (1.0 M in hex, 46.53 mL, 46.53 mmol, 3 equiv) was added dropwise via syringe over 46 min. The reaction mixture was maintained at -20°C for 48 h, whereafter the resulting mixture was diluted with EtOAc (50 mL) and quenched with saturated aq. NH_4Cl (100 mL). This led to a white precipitate being formed that was filtered off. The filtrate was then fractionated in a separatory funnel. The aqueous layer was further extracted with EtOAc (50 mL x 3), and the combined organic extracts were dried over MgSO_4 , filtered and concentrated under reduced pressure. The crude residue was purified by SiO_2 flash chromatography with petrol:EtOAc (8:1) as eluent to afford a mixture of C5-alcohols **12** in 1.00:1.12 ratio (4.0 g, 81% based upon aldehyde **10**, 58% based upon mesylate **11**) as an amber oil. IR of **12** (mixture, neat film): 3487 (br m), 2974 (s), 2934 (s), 2803 (m), 2239 (w), 1733 (s), 1616 (s), 1523 (s), 1480 (m), 1459 (m), 1366 (m), 1351 (m), 1283 (m), 1149 (s), 1032 (w), 949 (w), 816 (w) cm^{-1} .

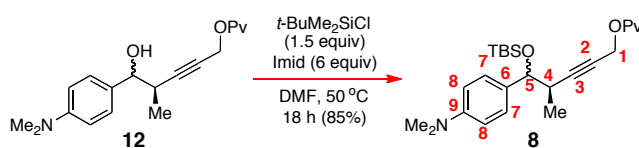
^1H NMR of **12** (Isomer 1) (400.11 MHz, CDCl_3): δ 7.25 (d, $J = 8.8$ Hz, 2H, H7), 6.70 (d, $J = 8.4$ Hz, 2H, H8), 4.62 (d, $J = 2.4$ Hz, 2H, H1), 4.59 (d, $J = 6.0$ Hz, 1H, H5), 2.94 (s, 6H, $\text{N}(\text{CH}_3)_2$), 2.88 (m, 1H, H4), 2.14 (br, 1H, OH), 1.20 (s, 9H, $t\text{-Bu}$ of OPv), 1.13 (d, $J = 7.2$ Hz, 3H, C(4)-Me) ppm. ^{13}C NMR of **12** (Isomer 1) (100.57 MHz, CDCl_3): δ 177.8 ($\text{C}=\text{O}$ of Pv), 150.2 (quaternary C at C9), 129.3 (1 x

quaternary C at C6), 127.4 (2 x C8), 112.1 (2 x C7), 88.6 (C2), 76.8 (C3), 76.2 (C5), 52.7 (C1), 40.6 (N(CH₃)₂), 38.67 (Me₃C=O), 34.2 (C4), 27.1 (Me₃C of Pv), 16.0 (C4-Me) ppm.

¹H NMR of **12** (Isomer 2) (400.11 MHz, CDCl₃): δ 7.21 (d, *J* = 8.8 Hz, 2H, H7), 6.70 (d, *J* = 8.4 Hz, 2H, H8), 4.69 (d, *J* = 2.3 Hz, 2H, H1), 4.41 (br d, *J* = 7.2 Hz, 1H, H5), 2.938 (s, 6H, N(CH₃)₂), 2.79 (m, 1H, CH-Me), 2.44 (br, 1H, OH), 1.22 (s, 9H, *t*-Bu of OPv), 1.05 (d, *J* = 7.2 Hz, 3H, C(4)-Me) ppm. ¹³C NMR of **12** (Isomer 2) (100.57 MHz, CDCl₃): δ 177.9 (C=O of Pv), 150.4 (1 x quaternary C at C9), 129.1 (1 x quaternary C at C6), 127.5 (2 x C8), 112.3 (2 x C7), 88.5 (C2), 77.3 (C5), 77.2 (C3), 52.7 (C1), 40.6 (N(CH₃)₂), 38.71 (Me₃C=O), 35.2 (C4), 27.1 (Me₃C of Pv), 17.3 (C4-Me) ppm.

TOF ES⁺ HRMS of **12**: Calcd. for C₁₉H₂₈NO₃ [M+H]⁺: 318.2069. Found: 318.2069.

Preparation of Silyl Ether **8**



To a stirred solution of the mixed alcohols **12** (3.79 g, 11.94 mmol) and imidazole (4.88 g, 71.64 mmol, 6 equiv) in dry DMF (60 mL) was added *tert*-butyldimethylsilyl chloride (2.70 g, 17.91 mmol, 1.5 equiv) in one portion. The reactants were then heated at 50 °C under N₂ overnight. The reaction mixture was cooled to rt, diluted with EtOAc (50 mL) and excess solid NaHCO₃ (about 1 g) was then added followed by addition of saturated aq. NaHCO₃ (50 mL) dropwise until CO₂ evolution ceased. The aqueous layer was extracted with EtOAc (50 mL x 3), and the combined organic extracts were washed with H₂O (100 mL), dried over MgSO₄, filtered and concentrated under reduced pressure. The crude residue was purified by gradient elution SiO₂ flash chromatography, transitioning from 30:1→25:1 petrol:EtOAc as eluent, to afford **8** (4.70 g, 85%) as an approx. 1:1 mixture of C5 epimers and as an amber oil. IR of **8** (mixture, neat film): 2960 (s), 2934 (s), 2856 (s), 2240 (w), 1736 (s), 1615

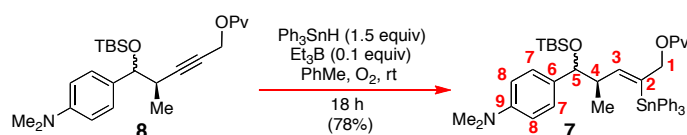
(s), 1521 (s), 1481 (m), 1461 (m), 1360 (m), 1282 (m), 1250 (m), 1146 (s), 1081 (s), 861 (s), 839 (s), 779 (s) cm^{-1} .

^1H NMR of **8** (Isomer 1) (399.9 MHz, CDCl_3): δ 7.17 (d, $J = 8.4$ Hz, 2H, H7), 6.66 (d, $J = 8.8$ Hz, 2H, H8), 4.60 (d, $J = 2.0$ Hz, 2H, H1), 4.55 (d, $J = 6.0$ Hz, 1H, H5), 2.93 (s, 6H, $\text{N}(\text{CH}_3)_2$), 2.65 (m, 1H, H4), 1.21 (s, 9H, *t*-Bu of OPv), 1.14 (d, $J = 6.9$ Hz, C4-Me), 0.89 (s, 9H, *t*-Bu of OTBS), 0.05 (s, 3H, CH_3Si of OTBS), -0.16 (s, 3H, CH_3Si of OTBS) ppm. ^{13}C NMR of **8** (Isomer 1) (100.57 MHz, CDCl_3): δ 177.8 ($\text{C}=\text{O}$), 149.7 (C9), 131.1 (C6), 127.4 (C7), 111.8 (C8), 90.0 (C2), 77.2 (C5), 75.7 (C3), 52.9 (C1), 40.58 ($\text{N}(\text{CH}_3)_2$), 38.68 ($(\text{CH}_3)_3\text{CCO}$), 35.9 (C4), 27.10 ($(\text{CH}_3)_3\text{CCO}$), 25.84 ($(\text{CH}_3)_3\text{CSi}$), 18.2 ($(\text{CH}_3)_3\text{CSi}$), 16.0 (C4-Me), -4.6 (CH_3Si), -5.1 (CH_3Si) ppm.

^1H NMR of **8** (Isomer 2) (399.9 MHz, CDCl_3): δ 7.17 ($J = 8.7$ Hz, 2H, H7), 6.66 ($J = 8.7$ Hz, 2H, H8), 4.67 (d, $J = 2.0$ Hz, 2H, H1), 4.48 (d, $J = 6.8$ Hz, 1H, H5), 2.93 (s, 6H, $\text{N}(\text{CH}_3)_2$), 2.71 (m, 1H, H4), 1.23 (s, 9H, *t*-Bu of OPv), 0.96 (d, $J = 7.0$ Hz, CH_3), 0.87 (s, 9H, *t*-Bu of OTBS), 0.04 (s, 3H, CH_3Si of OTBS), -0.14 (s, 3H, CH_3Si of OTBS) ppm. ^{13}C NMR of **8** (Isomer 2) (100.57 MHz, CDCl_3): δ 177.9 ($\text{C}=\text{O}$), 149.9 (C9), 130.3 (C6), 127.7 (C7), 111.8 (C8), 90.1 (C2), 77.7 (C5), 75.5 (C3), 53.0 (C1), 40.56 ($\text{N}(\text{CH}_3)_2$), 38.7 ($(\text{CH}_3)_3\text{CCO}$), 35.8 (C4), 27.12 ($(\text{CH}_3)_3\text{CCO}$), 25.8 ($(\text{CH}_3)_3\text{CSi}$), 18.2 ($(\text{CH}_3)_3\text{CSi}$), 16.5 (C4-Me), -4.7 (CH_3Si), -5.0 (CH_3Si) ppm.

TOF ES⁺ HRMS of **8**: Calcd. for $\text{C}_{25}\text{H}_{42}\text{NO}_3\text{Si}$ $[\text{M}+\text{H}]^+$: 432.2934. Found: 432.2920.

Vinyl Triphenyltin 7



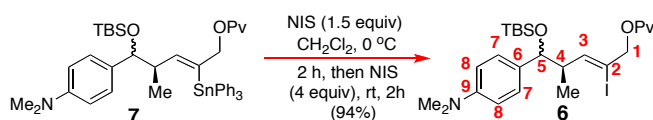
Inside a sealed glove bag containing an N_2 atmosphere, cold solid Ph_3SnH (3.95 g, 11.26 mmol, 1.49 equiv) was weighed into a pear-shaped flask fitted with a rubber septum. When the weighing process

was complete, the septum-sealed flask was removed from the glove bag and fitted with an N₂-filled balloon connected via a Luer-locked needle. Dry PhMe (7.6 mL) was added to a flask containing the pre-dried alkyne **8** (3.27 g, 7.57 mmol) under N₂ and that solution was cannulated into the flask containing the solid Ph₃SnH at rt, maintaining the N₂ atmosphere throughout. A solution of Et₃B (1.0 M in hex, 0.76 mL, 0.76 mmol, 0.1 equiv) was then added slowly to this reaction mixture over 1 min. This was followed by air (10 mL), which was injected into the reaction mixture twice after 5 min and 1 h. The reactants were stirred at rt for 18 h maintaining the N₂ atmosphere throughout. The reaction mixture was then diluted with EtOAc (10 mL) and quenched with H₂O (10 mL). The aqueous layer was extracted with EtOAc (30 mL x 3). The combined organic extracts were then dried over MgSO₄, filtered and concentrated *in vacuo*. The crude residue was purified by gradient elution SiO₂ flash chromatography initially using petrol:CH₂Cl₂ as eluent (3:1→1:1) to remove tin residues and other impurities, and then finally with petrol:EtOAc 25:1 to elute the vinyl triphenyltin **7** (4.63 g, 78%). It was obtained as a colourless oil and as a mixture of C5-epimers. Data for **7**: ¹H NMR of **7** (1:1 mixture at C5) (399.9 MHz, CDCl₃): δ 7.58 (m, 6H x 2, ³J^{119/117}Sn-¹H = ca. 46.8 Hz, *o*-CH₂, -SnPh₃), 7.36 (m, 9H x 2, *m*-CH₂ and *p*-CH₂, -SnPh₃), 6.76 (d, *J* = 8.7 Hz, 2H, H7 isomer 1), 6.72 (d, *J* = 10.4 Hz, ³J¹¹⁹Sn-¹H = 155.2 Hz, ³J¹¹⁷Sn-¹H = 148.8 Hz, 1H, H3-*syn*-isomer), 6.55 (d, *J* = ca. 8.4 Hz, 1H, H3-*anti*-isomer), 6.53 (d, *J* = 8.8 Hz, 2H, H8 isomer 1), 6.44 (d, *J* = 8.8 Hz, 2H, H7 isomer 2), 6.34 (d, *J* = 8.8 Hz, 2H, H8 isomer 2), 4.78 (m, 2H, H1, ³J^{119/117}Sn-¹H = 49.2 Hz), 4.45 (d, 1H, *J* = 3.3 Hz, H5-*syn*), 4.23 (d, 1H, *J* = 7.1 Hz, H5-*anti*), 2.93 and 2.88 (s x 2, each 6H, N(CH₃)₂), 2.48 (m, 1H, H4-*anti*) and 2.26 (m, 1H, H4-*syn*), 0.95 and 0.94 (s x 2, each 9H, *t*-Bu of OPv of *anti* and *syn* isomers), 0.91 and 0.84 (s x 2, each 9H, *t*-Bu of OTBS of *anti* and *syn* isomers), 0.73 (d, *J* = 6.8 Hz, C4-Me-*syn*), 0.56 (d, *J* = 6.8 Hz, C4-Me-*anti*), 0.01, -0.08, -0.22, -0.27 (s x 4, each 3H, CH₃Si of *anti* and *syn* isomers) ppm. ¹³C NMR of **7** (1:1 mixture of isomers at C5) (100.57 MHz, CDCl₃): δ 178.14 and 178.07 (C=O of OPv), 154.2 (C3, *syn*-isomer ²J^{119/117}Sn-¹³C = ca. 27.2 Hz), 152.2 (C3, *anti*-isomer, ²J^{119/117}Sn-¹³C = ca. 29.2 Hz), 149.6 and 149.2 (C9, both isomers), 139.0 and 138.7 (quaternary C of -SnPh₃, both isomers), 137.14 (*o*-C₂, -SnPh₃, ³J^{119/117}Sn-¹³C = 37.9 Hz, isomer 1), 137.03 (*o*-C₂, -SnPh₃, ³J^{119/117}Sn-¹³C = 37.7 Hz, isomer 2), 133.3 and 132.6 (C2, both isomers), 131.36 and 131.33 (C6, both isomers), 129.0 (*p*-C₂, -SnPh₃, ⁵J^{119/117}Sn-¹³C = 11.1 Hz) and 128.7 (*p*-C₂, -SnPh₃, ⁵J^{119/117}Sn-¹³C = 12.1 Hz), 128.6 (*m*-C₂, -SnPh₃, ⁴J^{119/117}Sn-¹³C = ca. 52.3 Hz, isomer 1), 128.4 (*m*-C₂, -SnPh₃, ⁴J^{119/117}Sn-¹³C = ca. 50.3 Hz, isomer 2), 127.9 and 126.7 (C7, both isomers), 111.8 and 111.7 (C8, both isomers), 79.3 and 77.2

(C5, both isomers), 72.2 (C1, $^2J^{119/117}\text{Sn}-^{13}\text{C} = 46.0$ Hz, isomer 1) and 72.0 (C1, $^2J^{119/117}\text{Sn}-^{13}\text{C} = 45.9$ Hz, isomer 2), 47.7 and 47.4 (C4, both isomers), 40.62 and 40.6 ($\text{N}(\underline{\text{C}}\text{H}_3)_2$, both isomers), 38.6 and 38.5 ($(\underline{\text{C}}\text{H}_3)_3\text{CCO}$, both isomers), 27.0 ($(\underline{\text{C}}\text{H}_3)_3\text{CCO}$, both isomers), 25.9 and 25.86 ($(\underline{\text{C}}\text{H}_3)_3\text{CSi}$, both isomers), 18.3 ($(\underline{\text{C}}\text{H}_3)_3\text{CSi}$, both isomers), 17.3 (C4-Me, *anti*-isomer) 13.1 (C4-Me, *syn*-isomer), -4.48, -4.54, -4.98 and -5.11 ($\underline{\text{C}}\text{H}_3\text{Si}$, both isomers) ppm.

TOF ES⁺ HRMS of **7**: Calcd. for $\text{C}_{43}\text{H}_{58}\text{NO}_3\text{SiSn}$ $[\text{M}+\text{H}]^+$: 784.3217. Found: 784.3217.

Vinyl Iodide **6**

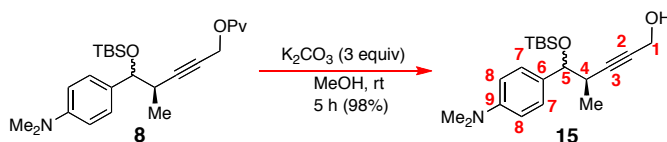


To the vinyl triphenyltin **7** (0.20 g, 0.26 mmol), in an Al-foil-covered pear-shaped flask under N_2 , was added dry CH_2Cl_2 (1.28 mL). The resulting solution was cooled to 0 °C and *N*-iodosuccinimide (NIS, 0.09 g, 0.38 mmol, 1.5 equiv) was added in one portion. Stirring was continued at 0 °C under N_2 for 2 h and then at rt for 1 h. After 3 h in total, a further quantity of NIS (0.23 g, 1.02 mmol, 4 equiv; making in total 5.5 equiv of NIS) was added to the reaction mixture and the reactants were stirred for another 2 h at rt. under N_2 , maintaining darkness throughout. The reaction flask was then diluted with EtOAc (5 mL) and quenched by adding saturated aq. NaHCO_3 (10 mL). The aqueous layer was then extracted with EtOAc (30 mL x 3) and the combined organic extracts were successively washed with saturated aq. $\text{Na}_2\text{S}_2\text{O}_3$ (50 mL) and H_2O (50 mL x 2). The organic layer was dried over MgSO_4 , filtered and concentrated under reduced pressure. The crude residue was purified by gradient elution SiO_2 flash chromatography using petrol: CH_2Cl_2 3:1→2:1→1:1 as the eluent to remove tin residues, and petrol:EtOAc 4:1→3:1 to elute the iodide **6** (0.13 g, approx 91%) as a slightly impure amber oil. It contained a small amount of succinimide/NIS according to NMR analysis (^1H resonances at around δ 2.70 ppm, and ^{13}C resonances at around δ 177.6, 29.67 and 28.20 ppm, as confirmed by DEPT spectroscopy). Data for **6**: ^1H NMR of **6** (mixture of isomers at C5) (399.9 MHz, CDCl_3): δ 7.19 (d, J =

8.8 Hz, 2H, H7, isomer 1), 7.11 (d, $J = 8.4$ Hz, 2H, H7, isomer 2), 6.95 (d, $J = 8.8$ Hz, 2H, H8, isomer 1), 6.92 (d, $J = 8.8$ Hz, 2H, H8, isomer 2), 5.82 (d, $J = 8.8$ Hz, 1H, H3, isomer 1), 5.73 (d, $J = 9.2$ Hz, 1H, H3, isomer 2), 5.07 (m, 2H, H1, isomer 1), 4.69 (complex m, 3H, H1 of isomer 2 superimposed upon H5 of one isomer), 4.68 (d, 1H, $J = 6.0$ Hz, H5 of one isomer), 4.49 (d, 1H, $J = 5.9$ Hz, CH-OTBS), 3.12 and 3.11 (s, 6H, N(CH₃)₂, both isomers), 2.73 and 2.63 (m, 1H, H4, both isomers), 1.24 and 1.23 (s, 9H, *t*-Bu of Pv, both isomers), 0.91 (d, $J = 7.2$ Hz, C4-Me, one isomer) superimposed upon 0.87 (d, C4-Me, of other isomer), 0.89 and 0.86 (s, 9H, *t*-Bu of OTBS of *anti* and *syn* isomers), -0.005, -0.02, -0.20 and -0.23 (s x 4, 3H each, CH₃Si, both isomers) ppm. ¹³C NMR of **6** (mixture of isomers at C5) (100.57 MHz, CDCl₃): δ 177.54 and 177.51 (C=O of OPv, both isomers), 146.5 and 146.3 (C9, both isomers), 142.7 and 141.3 (C3, both isomers), 132.8 and 132.7 (C6, both isomers), 127.6 and 127.2 (C7, both isomers), 112.7 and 112.6 (C8, both isomers), 99.7 and 99.0 (C2, both isomers), 77.4 and 76.3 (C5, both isomers), 57.62 and 57.58 (C1, both isomers), 49.3 and 48.9 (C4, both isomers), 39.4 (N(CH₃)₂, both isomers), 38.84 and 38.82 ((CH₃)₃CCO, both isomers), 28.2 (N(CH₃)₂), 27.19 and 27.17 ((CH₃)₃CCO), 25.9 and 25.8 ((CH₃)₃CSi, both isomers), 18.2 and 18.1 ((CH₃)₃CSi, both isomers), 15.4 and 12.8 (C4-Me, both isomers), -4.5, -4.6, -5.0, -5.2 (CH₃Si, both isomers) ppm.

TOF ES⁺ HRMS of **6**: Calcd. for C₂₅H₄₂NIO₃Si [M]⁺: 559.1928. Found: 559.1931.

Preparation of Propargyl Alcohol **15**



To a stirred rt solution of the ester **8** (4.70 g, 10.88 mmol) in commercial, undried, MeOH (109 mL) was added K₂CO₃ (4.51 g, 32.21 mmol, 3 equiv) in one portion. After stirring at rt for 5 h, the reaction mixture was diluted with EtOAc (50 mL) and quenched with H₂O (100 mL). The aqueous layer was extracted with EtOAc (50 mL x 3) and the combined organic extracts were washed with H₂O (50 mL x 2), dried over MgSO₄, filtered and concentrated under reduced pressure. The crude residue was

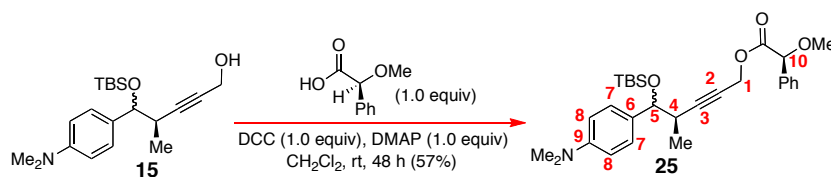
purified by gradient elution SiO₂ flash chromatography with 10:1→6:1 petrol:EtOAc as eluent to afford **15** (3.69 g, 98%) as an oil. Data for **15**: IR of **15** mixture (neat film): 3350 (br, m), 2957 (s), 2932 (s), 2889 (s), 2856 (s), 2235 (w), 1615 (s), 1569 (w), 1524 (s), 1473 (m), 1352 (m), 1254 (m), 1188 (w), 1163 (m), 1080 (s), 946 (m), 868 (s), 838 (s) 780 (s), 674 (m), 565 (m) cm⁻¹.

¹H NMR of **15** (isomer 1) (399.9 MHz, CDCl₃, faster moving from the mixture): δ 7.17 (d, *J* = 8.8 Hz, 2H, H7), 6.67 (d, *J* = 8.8 Hz, 2H, H8), 4.49 (d, *J* = 6.5 Hz, 1H, H5), 4.25 (apparent d, *J* = 1.6 Hz, 2H, H1), 2.94 (s, 6H, N(CH₃)₂), 2.71 (m, 1H, H4), 1.59 (br, 1H, OH), 0.97 (d, *J* = 6.8 Hz, 3H, C4-Me), 0.88 (s, 9H, *t*-Bu of OTBS), 0.03 (s, 3H, CH₃Si of OTBS), -0.14 (s, 3H, CH₃Si of OTBS) ppm. ¹³C NMR of **15** (isomer 1) (100.57 MHz, CDCl₃): δ 149.9 (C9), 130.4 (C6), 127.7 (C7), 111.8 (C8), 89.4 (C2), 79.7 (C3), 77.7 (C5), 51.5 (C1), 40.6 (N(CH₃)₂), 35.6 (C4), 25.8 ((CH₃)₃CSi), 18.3 ((CH₃)₃C₃Si), 16.5 (C4-Me), -4.6 (CH₃Si), -5.1 (CH₃Si) ppm.

¹H NMR of **15** (isomer 2) (399.9 MHz, CDCl₃, slower moving from the mixture): δ 7.17 (d, *J* = 8.4 Hz, 2H, H7), 6.67 (d, *J* = 8.8 Hz, 2H, H8), 4.51 (d, *J* = 6.4 Hz, H5), 4.16 (apparent d, *J* = 2.0 Hz, 2H, H1), 2.94 (s, 6H, N(CH₃)₂), 2.65 (m, 1H, H4), 1.60 (br, 1H, OH), 1.17 (d, *J* = 6.8 Hz, 3H, C4-Me), 0.88 (s, 9H, *t*-Bu of OTBS), 0.04 (s, 3H, CH₃Si of OTBS), -0.17 (s, 3H, CH₃Si of OTBS) ppm. ¹³C NMR of **15** (isomer 2) (100.57 MHz, CDCl₃): δ 149.8 (C9), 131.4 (C6), 127.5 (C7), 111.8 (C8), 89.4 (C2), 80.0 (C3), 77.7 (C5), 51.4 (C1), 40.6 (N(CH₃)₂), 36.0 (C4), 25.8 ((CH₃)₃CSi), 18.3 ((CH₃)₃C₃Si), 16.5 (CH₃), -4.5 (CH₃Si), -5.1 (CH₃Si) ppm.

TOF ES⁺ HRMS of **15**: Calcd. for C₂₀H₃₄NO₂Si [M+H]⁺: 348.2359. Found: 348.2358.

Derivatisation of Chiral Alcohol Mixture **15** as Ester **25**



To a stirred solution of the alcohol **15** (50 mg, 0.14 mmol) and (*R*)-methoxyphenylacetic acid (26 mg, 0.14 mmol, 1 equiv) in commercial CH_2Cl_2 (1 mL) was added *N,N'*-dicyclohexyl-carbodiimide (DCC) (33 mg, 0.14 mmol, 1 equiv) and 4-dimethylaminopyridine (DMAP) (2 mg, 0.01 mmol, 0.1 equiv) and stirring was continued at rt for 36 h. The crude reaction mixture (including the CH_2Cl_2 solvent) was applied directly to a short SiO_2 column and gradient elution flash chromatography performed with 18:1→15:1 petrol/EtOAc as eluent, to obtain the product **25** (40 mg, 56%). ^1H NMR of **25** subsequently revealed that **15** was a mixture of two C(5)-epimers whose ratio was close to 1:1 and that **15** was of approximately 98% ee. Data for **25**: ^1H NMR of **25** (ca. 1:1 mixture of isomers at C5) (600.13 MHz, CD_3OD): δ 7.48-7.42 (m, 2H x 2, Ph of methoxyphenylacetate), 7.39-7.31 (m, 3H x 2, Ph of methoxyphenylacetate), 7.13 (d, J = 9.0 Hz, 2H, H7, isomer 1) superimposed upon 7.12 (d, J = 8.4 Hz, 2H, H7, isomer 2), 6.65 (d, J = 8.4 Hz, H8, both isomers), 4.82 (s, 1H, $-(\text{Ph})\text{CH}(\text{OMe})/\text{H10}$) and 4.79 (s, 1H, $-(\text{Ph})\text{CH}(\text{OMe})/\text{H10}$) superimposed upon 4.80 (dd, J = 15.6 Hz, 1H, H1a, isomer 1), 4.73 (dd, J = 15.6, 2.4 Hz, 1H, H1a, isomer 2), 4.64 (dd, J = 15.6, 1.8 Hz, 1H, H1b, isomer 1), 4.58 (dd, J = 15.0, 2.4 Hz, 1H, H1b, isomer 2), 4.50 (d, J = 6.0 Hz, 1H, H5, isomer 1), 4.43 (d, J = 6.6 Hz, 1H, H5, isomer 2), 3.428 (s, 3H, OCH_3), isomer 1), 3.425 (s, 3H, OCH_3 , isomer 2), 2.94 (s, 6H, $\text{N}(\text{CH}_3)_2$, isomer 1), 2.93 (s, 6H, $\text{N}(\text{CH}_3)_2$, isomer 2), 2.67 (m, 1H, C4-Me, isomer 1), 2.60 (m, 1H, C4-Me, isomer 2), 1.10 (d, J = 6.6 Hz, 3H, CH_3), 0.91 (d, J = 7.2 Hz, 3H, CH_3), 0.88 (s, 9H, *t*-Bu of OTBS of isomer 2), 0.86 (s, 9H, *t*-Bu of OTBS of isomer 1), 0.021 (s, 3H, CH_3Si), 0.013 (s, 3H, CH_3Si), -0.16 (s, 3H, CH_3Si), -0.18 (s, 3H, CH_3Si) ppm. ^{13}C NMR of **25** (ca. 1:1 mixture of isomers at C5) (150.92 MHz, CDCl_3): δ 170.1 and 170.0 ($\text{C}=\text{O}$), 149.9 and 149.8 (C9), 136.0 (quaternary C of Ph), 131.1 and 130.2 (C6), 128.8 (CH -aromatic ring from the acid), 128.6 (CH -aromatic ring from the acid), 127.7 (CH -aromatic ring from **15**), 127.4 (CH -aromatic ring from the acid), 127.3 (CH -aromatic ring from the acid), 111.8 (CH -aromatic ring from **15**), 91.0 and 90.9 (C2), 82.5 ($-(\text{Ph})\text{CH}-\text{OMe}$, both isomers), 77.6 and 77.2 (C5), 74.9 and 74.8 (C3), 57.40 and 57.39 ($-(\text{Ph})\text{CH}-\text{OMe}$), 53.6 and 53.5 (C1), 40.60 and

40.58 (N(CH₃)₂), 35.9 and 35.7 (C4), 25.83 and 25.78 ((CH₃)₃CSi), 18.23 and 18.22 ((CH₃)₃CSi), 16.3 and 15.9 (C4-Me), -4.6 (CH₃Si), -4.7 (CH₃Si), -5.07 (CH₃Si), -5.09 (CH₃Si) ppm.

TOF ES⁺ HRMS of **25**: Calcd. for C₂₉H₄₂NO₄Si [M+H]⁺: 496.2883. Found: 496.2880.

Extra Commentary on The O-Desilylation of Enantiomeric (-)-**24** to (-)-(*S*)-Trichostatin A in the Presence of 3Å Molecular Sieves

It is worthy of mention that when Dr Manaviazar conducted the synthesis of enantiomeric (-)-(*6S*)-trichostatin A by an identical route, using the enantiomer of **11**, synthetically pure (-)-**24** was isolated in 61% yield when 140 mg of (-)-(*6S*)-trichostatic acid was employed for the Helquist siloxyamination procedure.^{17e} In this instance, Dr Manaviazar isolated pure (-)-**24** by extractive work-up and by gradient elution SiO₂ flash chromatographic purification using petrol:EtOAc (6:1→3:1) as eluent.

Dr Manaviazar subsequently observed that when purified **24** was converted through to (-)-(*6S*)-trichostatin A with CsF in MeOH *in the presence of 3Å molecular sieves*, a much lower 44% yield of (-)-(*6S*)-trichostatin A was obtained than that recorded in the literature, despite this deprotection being very clean according to TLC analysis. We believe that the lower yield of (-)-**1a** obtained in the presence of 3Å molecular sieves could potentially be due to irreversible trapping and adsorption of some of the product (-)-**TSA** within the zeolite.

In this regard we note that when Professor Helquist's team^{17e} conducted the (+)-(*6R*)-trichostatic acid (**22**)→(+)-(*6R*)-trichostatin A (**1**) conversion on 173 mg scale, without 3Å sieves added at the CsF/MeOH step, they obtained 61 mg (+)-(*6R*)-trichostatin A (**1**) in 35% yield for the two steps. This procedure also did not purify the intermediary TBSO-trichostatin A **24** by SiO₂ flash chromatography but instead used crude **24** for the CsF/MeOH deprotection step. This appears to be essential to obtain high yields of **1a**.

It is also important to note that when the Helquist team^{17e} performed the conversion of (+)-(*6R*)-trichostatic acid (**22**) into (+)-(*3R*)-trichostatin A (**1**) on much larger 1.02 g scale with respect to **22**, and their crude procedure was followed (*in the absence of 3Å sieves* for the CsF/MeOH deprotection step), 0.98 g of (+)-(*3R*)-trichostatin A (**1**) was isolated after trituration of the crude reaction mixture with Hex/Et₂O (4:1), which represents a 92% yield for the overall (**22**)→(+)-(*6R*)-trichostatin A 2 step conversion.

We therefore strongly recommend that, in future, workers follow Professor Paul Helquist's exact endgame^{17e} for effecting the (+)-(6*R*)-trichostatic acid (**22**)→(+)-(6*R*)-trichostatin A (**1a**) conversion,^{17e} when using our newly developed, improved, intersecting route. The Helquist protocol performs the final CsF deprotection step in MeOH at rt ***without any added molecular sieves***.

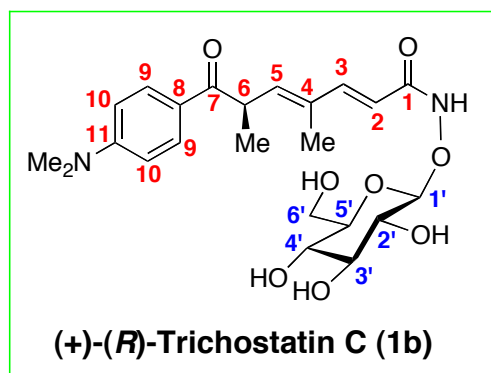
Proof of the (6*R*)-Stereochemistry and Optical Purity of Our Synthetic (+)-(*R*)-Trichostatin A (1a). Conversion of Our Synthetic (+)-Trichostatic Acid (22) into (+)-Trichostatin C (1b), and Synthetic Verification of the Structure Assigned to (+)-Trichostatin C (1b)

Apart from measuring the optical rotation of our fully synthetic (+)-(*R*)-trichostatin A (**1a**) ($[\alpha]_D = +88.8^\circ$ (c 0.26, MeOH)), in order for us confirm that our synthetic material was of high enantiomeric purity, we synthetically converted its (+)-(*R*)-trichostatic acid precursor **22** into its β -glucopyranoside derivative of (+)-trichostatin A, namely, (+)-trichostatin C (**1b**).^{20a,16} The NMR data of our synthetic (+)-trichostatin C (**1b**) nicely matched the NMR data that had previously been reported in the literature by Tsuji,^{20a} so confirming that the original structure that had been assigned to **1b** by Tsuji and Kobayashi,^{20a} and later by Thorsen,^{20b} and Xu and SI,¹⁶ was indeed correct. The details of our first total synthesis of trichostatin C (**1b**) will be reported in a separate paper, but the NMR data and ^1H and ^{13}C NMR spectra for our synthetic **1b** are included here in this SI, in order to support and confirm the integrity of the present total synthesis of (+)-(*R*)-trichostatin A (**1a**).

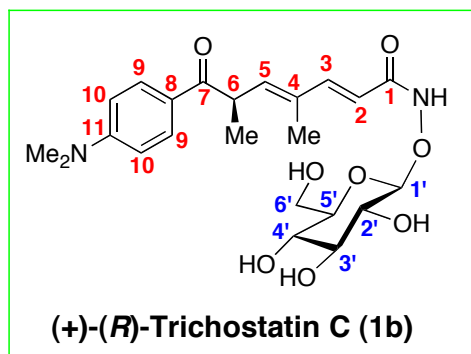
With regard to our synthetic (+)-(*R*)-trichostatin A (**1a**), the $[\alpha]_D$ value of $+88.8^\circ$ (c 0.26, MeOH, 20 $^\circ\text{C}$) that was recorded for **1a** compares very favourably with earlier $[\alpha]_D$ data reported by Mori^{17b} for (*R*)- and (*S*)-trichostatin A in MeOH. Thus, Mori recorded an $[\alpha]_D +96^\circ$ (c 0.31, MeOH, 22 $^\circ\text{C}$) for optically pure (+)-(*R*)-trichostatin A, synthesised from methyl (*R*)-3-hydroxy-2-methyl-propionate of 99% ee. Mori also reported an $[\alpha]_D -82^\circ$ (c 0.24, MeOH, 17 $^\circ\text{C}$) for optically pure (-)-(*S*)-trichostatin A synthesised by the same route from methyl (*S*)-3-hydroxy-2-methyl-propionate of 99% ee. Thus our $[\alpha]_D$ value for **1a** lies well within the margins of error that Mori reported for these two measurements. In light of this, and our derivatisation of our synthetic (+)-(*R*)-trichostatic acid (**22**) as (+)-trichostatin C (**1b**), and our earlier derivatisation of propargylic alcohol **15** as chiral ester **25**, we consider that the synthetic (+)-(*R*)-trichostatin A (**1a**) that we have prepared is of approximately 98-100 % ee. However, we also recognise that there will always be errors associated with weighing small samples, much of which often depends on the accuracy of the balance used, and this could also explain the slightly higher $[\alpha]_D$ recorded by Mori et al. for their synthetic (+)-**1a**. Additionally, Mori has also recorded his $[\alpha]_D$ of -82° (c 0.24, MeOH) at 17 $^\circ\text{C}$ for the optically pure (*S*)-enantiomer, while we recorded our $[\alpha]_D$ value of $+88.8^\circ$ (c 0.26, MeOH) at 20 $^\circ\text{C}$ for the (*R*)-enantiomer, which compares well with the even

higher $[\alpha]_D$ of +96 ° (c 0.31, MeOH) Mori recorded for (+)-**1a** at the higher temperature of 22 °C. Given the aforementioned conversion of (+)-trichostatin A into (+)-trichostatin C (**1b**), and us not detecting any (6*S*)-diastereomer in that reaction mixture, we consider that our synthetic (+)-**1a** is essentially optically pure.

The ^1H and ^{13}C spectral data that we obtained for fully synthetic (+)-trichostatin C (**1b**) derived from the synthetic (+)-trichostatic acid (**22**) of this route is shown opposite, in Tabular format, along with the 2D and DEPT ^{13}C NMR assignments, and comparisons with the spectral data reported previously for (+)-trichostatin C (**1b**).

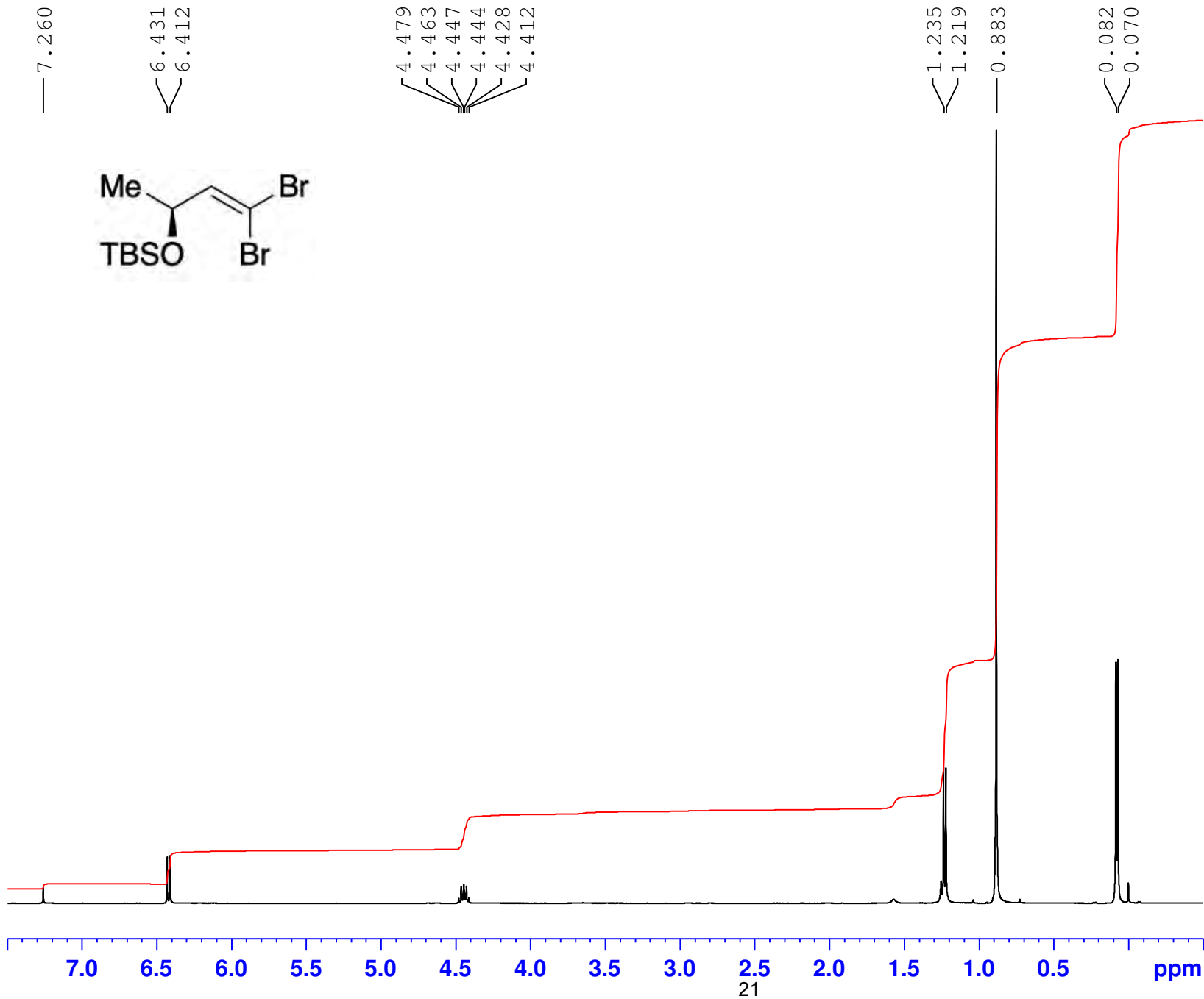


¹ H Assignment	This work Hale, Pan and Manaviazar 600.13 MHz ¹ H NMR (CD ₃ OD) (ref. δ 3.31 ppm)	Xu and Si ¹⁶ 600 MHz ¹ H NMR (CD ₃ OD)	Thorsen ^{20b} 400 MHz ¹ H NMR (CD ₃ OD)
H9	7.86 (d, <i>J</i> = 9.6 Hz, 2H)	7.86 (d, <i>J</i> = 9.2 Hz, 2H)	7.87 (d, <i>J</i> = 8.0 Hz, 2H)
H2	7.26 (d, <i>J</i> = 15.6 Hz, 1H)	7.27 (d, <i>J</i> = 9.2 Hz, 1H)	7.27 (d, <i>J</i> = 8.0 Hz, 1H)
H10	6.73 (d, <i>J</i> = 9.0 Hz, 2H)	6.72 (d, <i>J</i> = 9.2 Hz, 2H)	6.74 (d, <i>J</i> = 9.2 Hz, 2H)
H5	5.97 (d, <i>J</i> = 9.0 Hz, 1H)	5.97 (d, <i>J</i> = 9.6 Hz, 1H)	5.98 (d, <i>J</i> = 9.2 Hz, 1H)
H3	5.87 (d, <i>J</i> = 15.6 Hz, 1H)	5.87 (d, <i>J</i> = 15.6 Hz, 1H)	5.88 (d, <i>J</i> = 15.2 Hz, 1H)
H6	4.55 (d, <i>J</i> = 9.0 Hz, 1H)	—	4.54 (d, <i>J</i> = 8.4 Hz, 1H)
H1'	4.54 (dq, <i>J</i> = 9.6, 6.6 Hz, 1H)	4.54 (dq, <i>J</i> = 9.6, 6.0 Hz, 1H)	4.55 (m, 1H)
H6a'	3.91 (dd, <i>J</i> = 11.4, 2.4 Hz, 1H)	3.91 (dd, <i>J</i> = 12.0, 2.4 Hz, 1H)	3.91 (dd, <i>J</i> = 12.4, 2.4 Hz, 1H)
H6b'	3.67 (dd, <i>J</i> = 12.0, 6.6 Hz, 1H)	3.67 (dd, <i>J</i> = 12.0, 6.0 Hz, 1H)	3.66 (dd, <i>J</i> = 11.4, 6.4 Hz, 1H)
H3'	3.41 (dd, <i>J</i> = 9.0, 9.0 Hz, 1H)	3.40 (t, <i>J</i> = 9.0 Hz, 1H)	3.42 (t, <i>J</i> = 9.2 Hz, 1H)
H5'	3.33 (m, 1H)	3.34 (m, 1H)	3.34 (m, 1H)
H2'	3.32 (m, 1H)	3.32 (m, 1H)	3.31 (m, 1H)
H4'	3.28 (m, 1H)	3.28 (m, 1H)	3.25 (m, 1H)
NMe₂	3.06 (s, 3H)	3.06 (s, 3H)	3.07 (s, 3H)
C4-Me	1.93 (s, 3H)	1.93 (s, 3H)	1.94 (s, 3H)
C6-Me	1.28 (d, <i>J</i> = 7.2 Hz, 3H)	1.27 (d, <i>J</i> = 6.0 Hz, 3H)	1.29 (d, <i>J</i> = 6.8 Hz, 3H)



¹³ C Assignment	This work Hale, Pan and Manaviazar 150.92 MHz ¹³ C NMR (CD ₃ OD) (ref. δ 49.0 ppm)	Xu and Si ¹⁶ 150 MHz ¹³ C NMR (CD ₃ OD)	Thorsen ^{20b} 100 MHz ¹³ C NMR (CD ₃ OD)	Tsuji and Kobayashi ^{20a} 15 MHz ¹³ C NMR (CD ₃ OD)
C7	201.3	201.4	201.5	201.3
C1	166.9	167.1	167.0	168.0
C11	155.5	155.6	155.6	155.6
C2	147.6	147.8	147.8	147.8
C5	142.5	142.7	142.6	142.3
C8	134.3	134.4	134.5	134.5
C9	131.9	132.1	132.1	131.9
C4	124.7	124.8	124.9	124.9
C3	116.2	116.3	116.3	116.3
C10	111.9	112.1	112.1	112.0
C1'	107.7	107.8	107.8	107.9
C5'	78.4	78.5	78.5	78.4
C3'	77.5	77.6	77.7	77.7
C2'	73.1	73.2	73.3	73.2
C4'	71.3	71.4	71.5	71.5
C6'	62.8	62.9	62.9	62.9
C6	41.7	41.8	41.9	41.9
NMe₂	40.0	40.2	40.3	40.1
C6-Me	18.3	18.4	18.4	18.3
C4-Me	12.7	12.9	12.9	12.8

Part B. Copies of the ^1H NMR, ^{13}C NMR, IR and HRMS Spectra For All Synthetic Intermediates in the Route to (+)-(*R*)-Trichostatin A. Spectra for the (+)-(*R*)-Trichostatin C Synthesised from the (+)-(*R*)-Trichostatic Acid Prepared By This Route. TLC Analyses of Key Reactions



Current Data Parameters
 NAME I-PK-33PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180116
 Time 1.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl₃
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 295.5 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000099 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

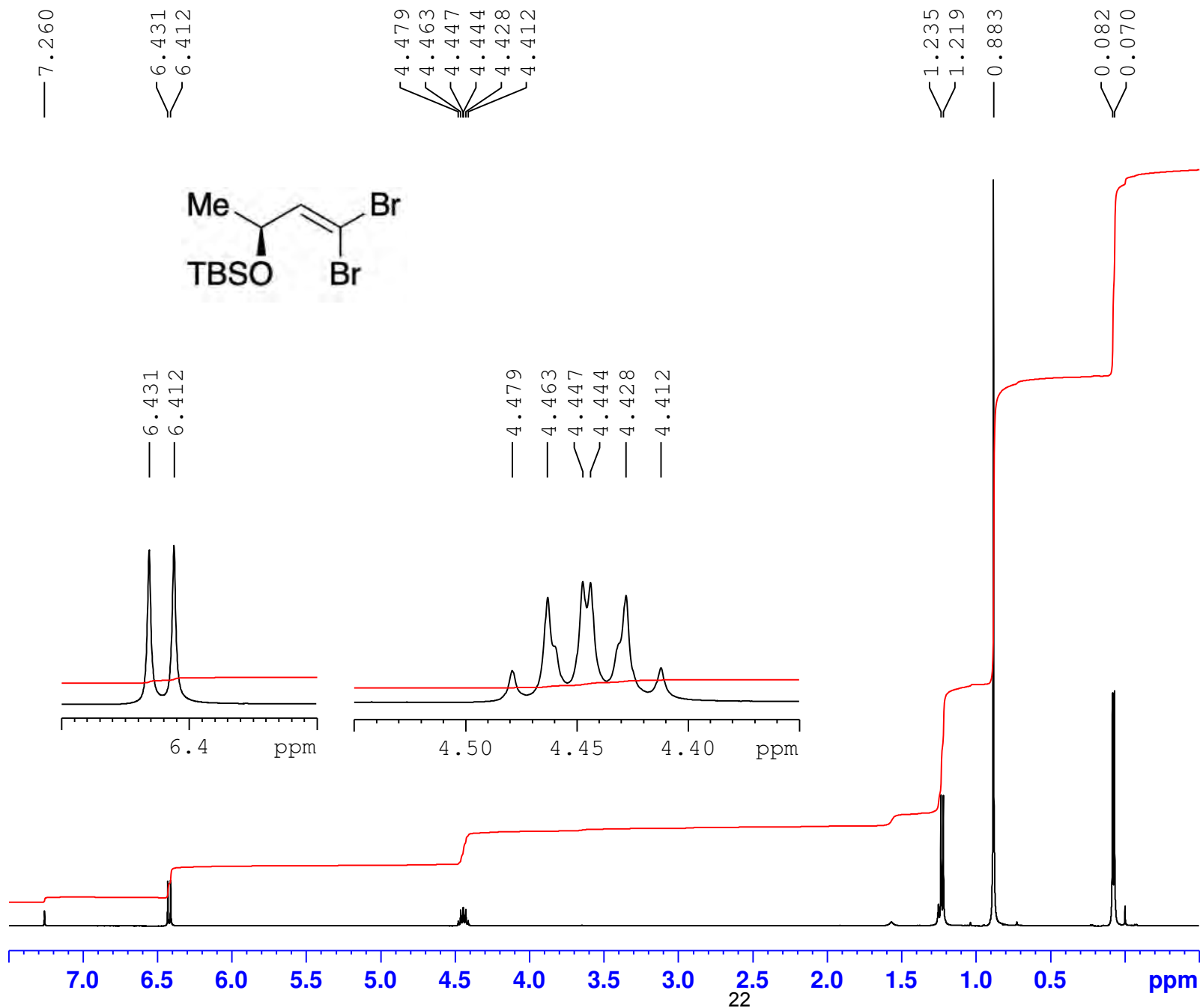
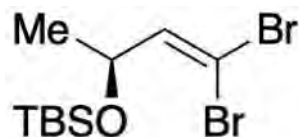


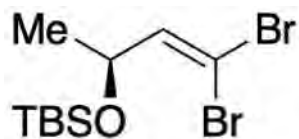
Current Data Parameters
 NAME I-PK-33PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180116
 Time 1.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 295.5 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000099 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00





1.235
1.219

0.883

0.082
0.070

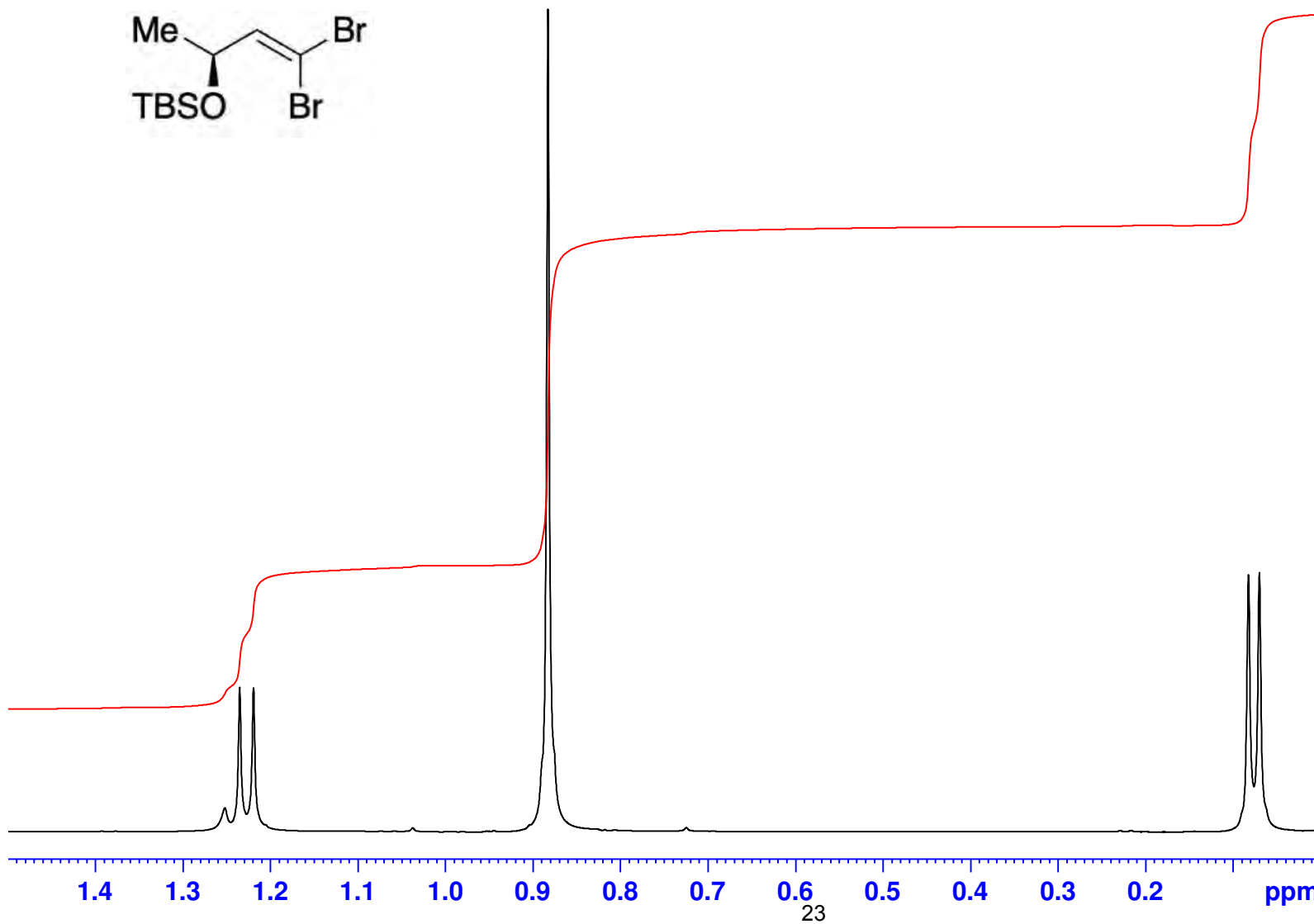


Current Data Parameters
NAME I-PK-33PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180116
Time 1.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 295.5 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000099 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



— 143.02

— 87.49

77.32
77.00
76.68

— 69.89

— 29.70

— 25.77

— 22.82

— 18.08

— -0.01

-4.63

-4.88



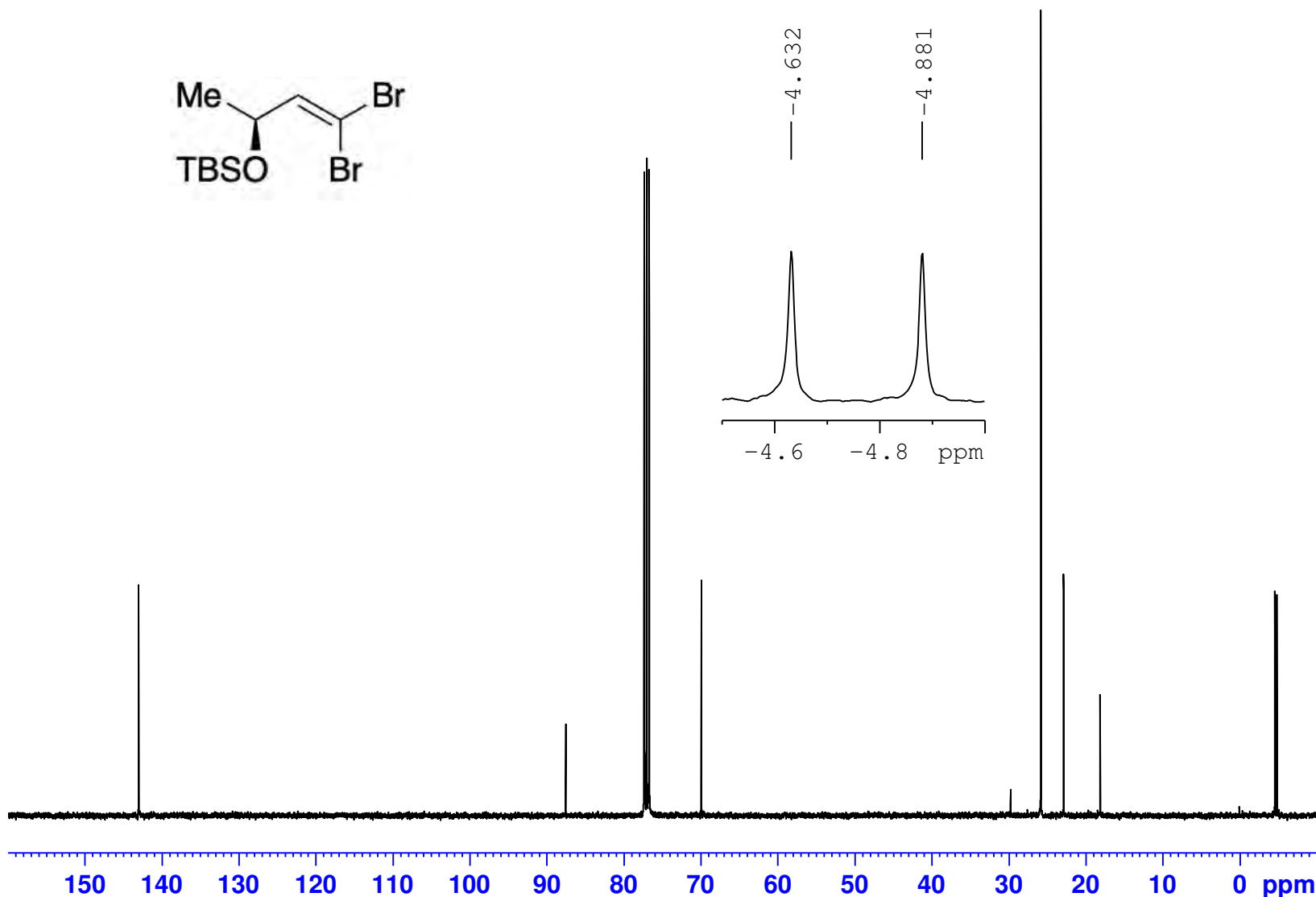
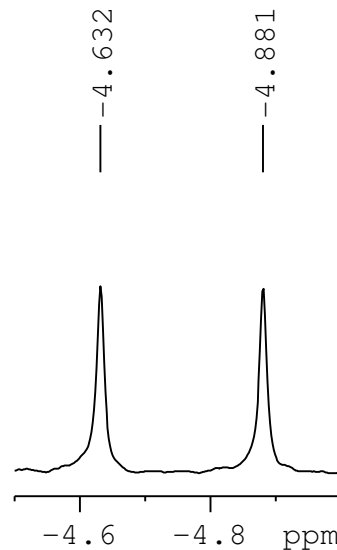
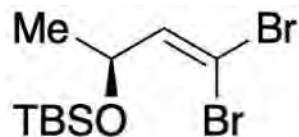
Current Data Parameters
NAME I-PK-33PURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180116
Time 6.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 296.7 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549370 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





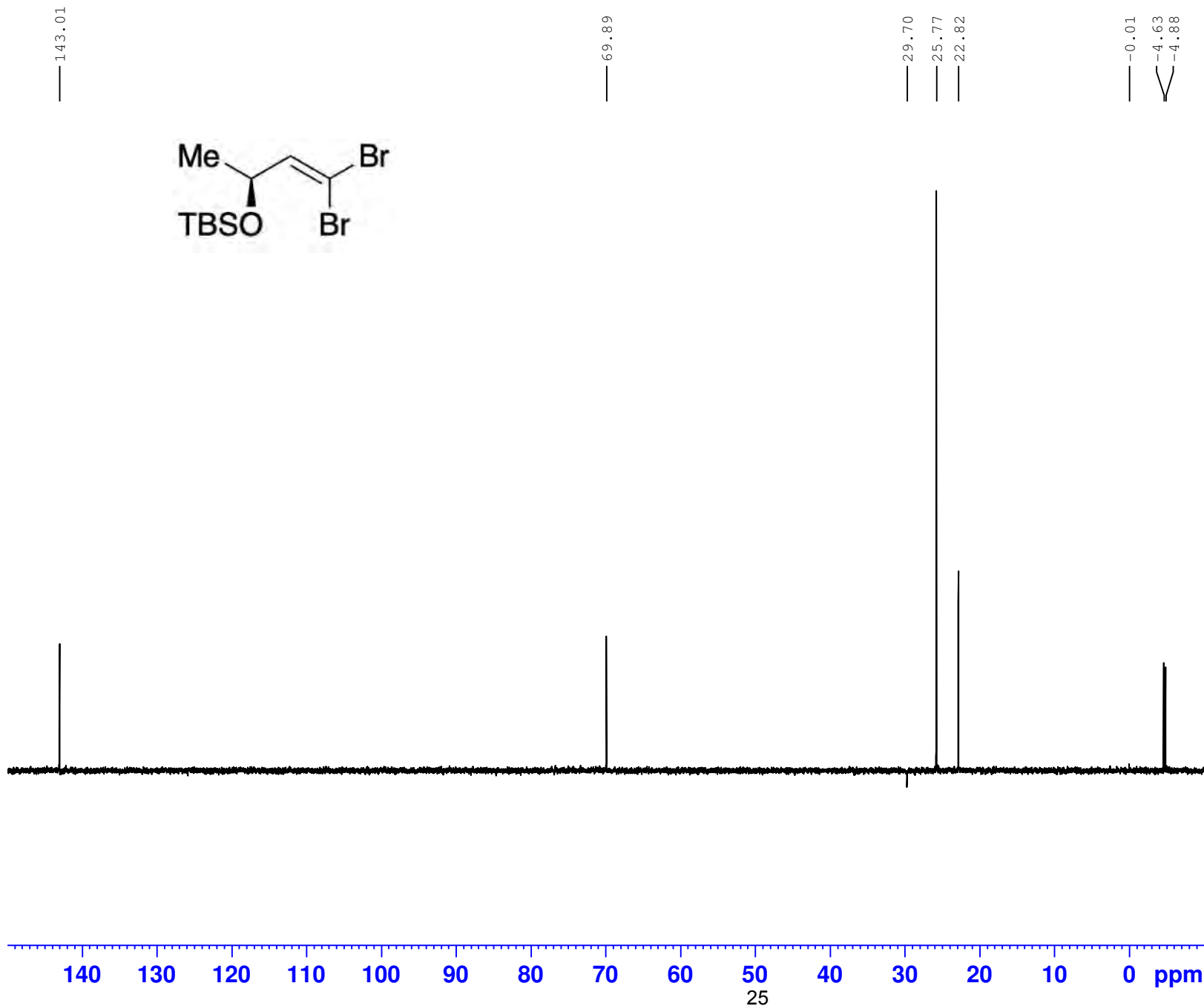
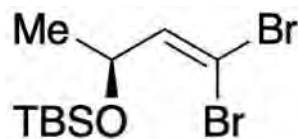
Current Data Parameters
NAME I-PK-33PURE
EXPNO 12
PROCNO 1

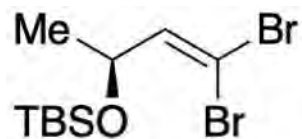
F2 - Acquisition Parameters
Date_ 20180116
Time 7.07
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDC13
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 296.2 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5549369 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME I-PK-33PURE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180116
 Time_ 7.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 4708.098 Hz
 FIDRES 2.298876 Hz
 AQ 0.2174976 sec
 RG 2050
 DW 106.200 usec
 DE 6.50 usec
 TE 295.7 K
 D0 0.00000300 sec
 D1 0.93364388 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00021260 sec

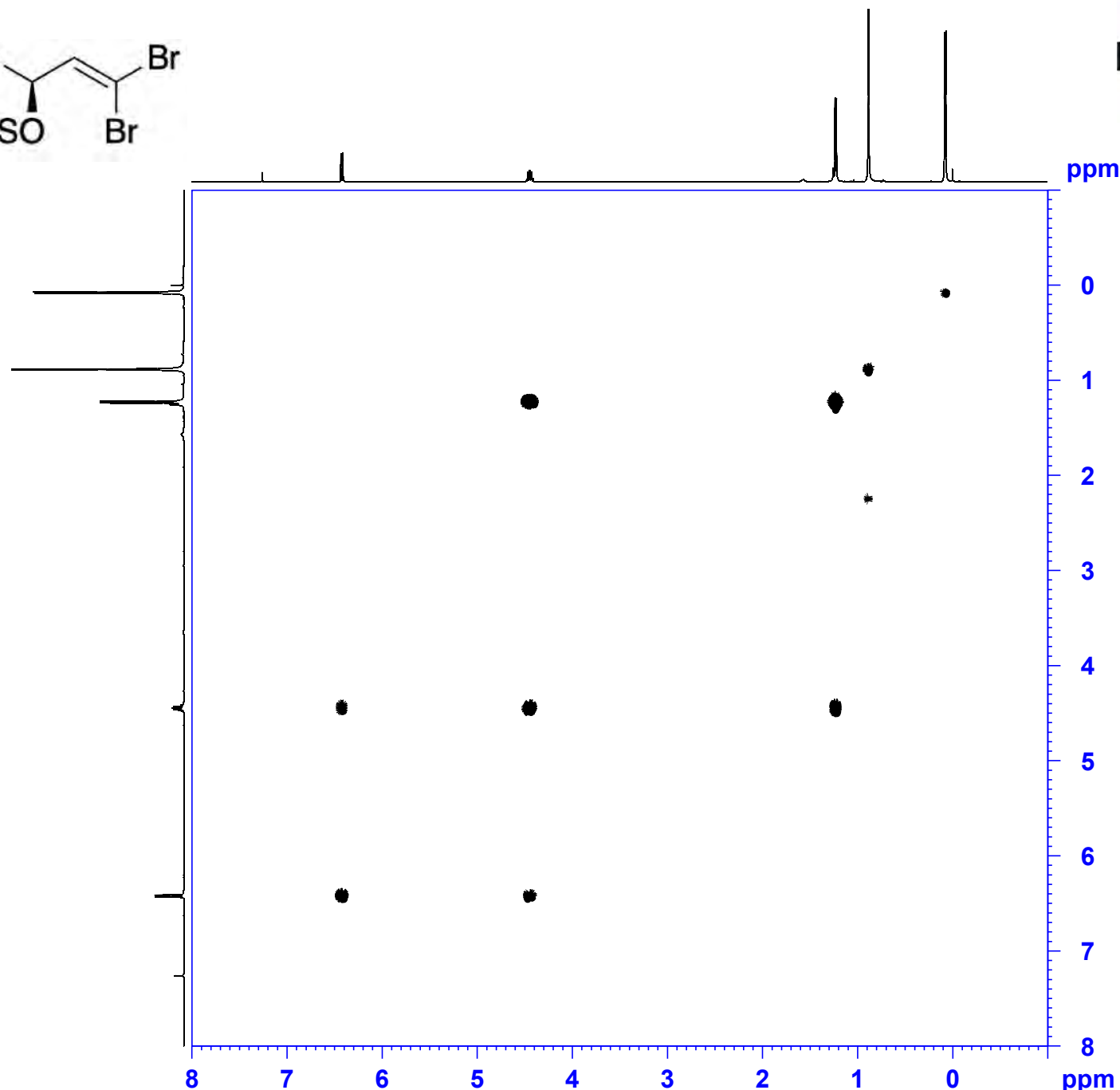
===== CHANNEL f1 =====
 SFO1 399.9008997 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

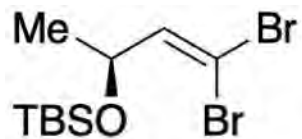
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9009 MHz
 FIDRES 36.747414 Hz
 SW 11.762 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000106 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000107 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
NAME I-PK-33PURE
EXFNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180116
Time 7.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgppsp.3
TD 1024
SOLVENT CDC13
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 295.8 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 0.00001910 sec

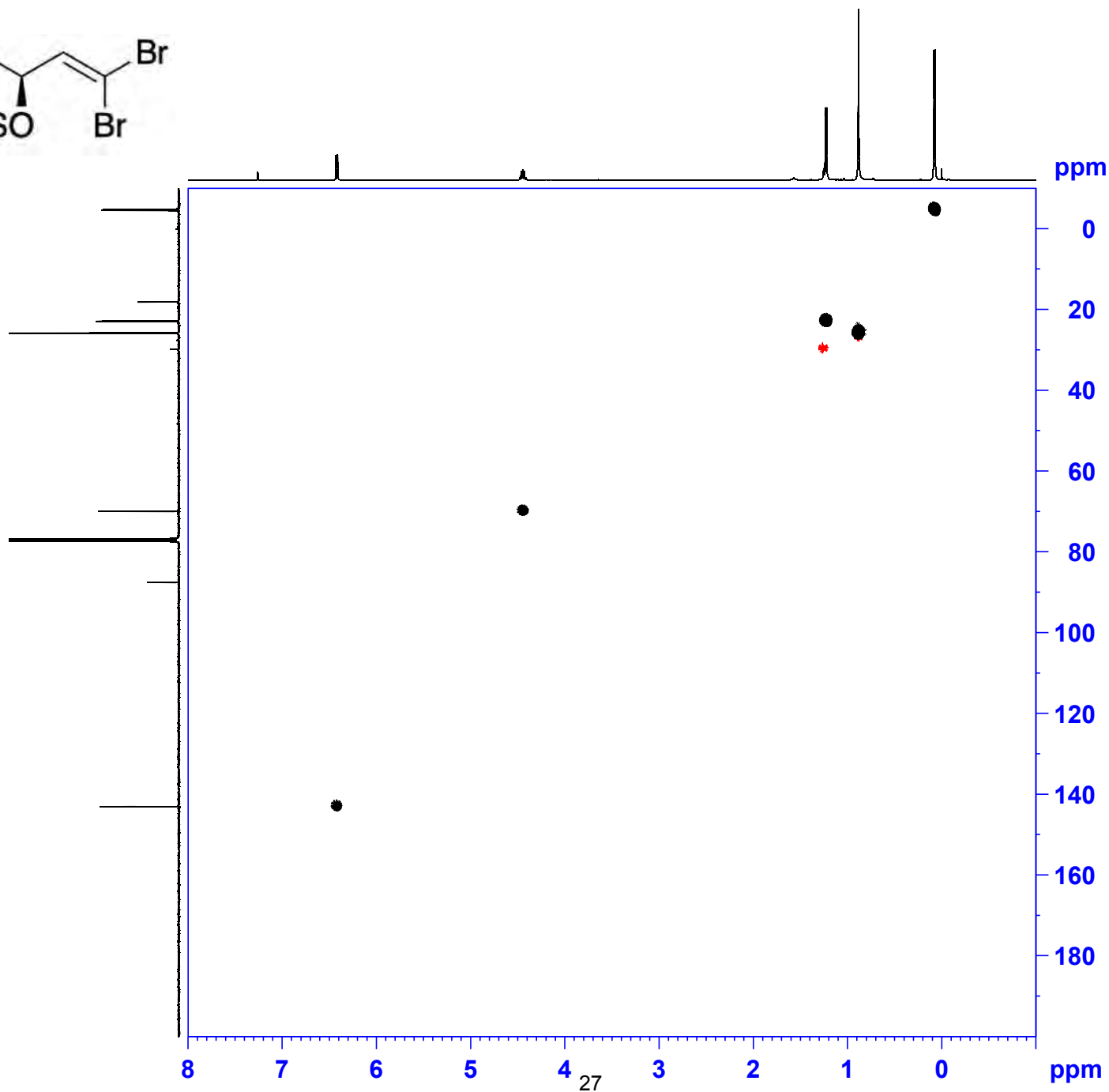
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

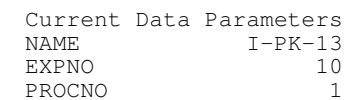
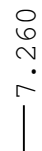
===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000099 MHz
WDW OSINE





```

F2 - Acquisition Parameters
Date_                20171108
Time                 15.21
INSTRUM              spect
PROBHD      5 mm PABBO BB/
PULPROG              zg30
TD                   131072
SOLVENT              CDCl3
NS                     64
DS                      0
SWH                   12019.230 Hz
FIDRES                0.091699 Hz
AQ                   5.4525952 sec
RG                      32
DW                   41.600 usec
DE                   10.58 usec
TE                   300.0 K
D1                   0.10000000 sec
TD0                    1

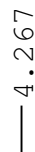
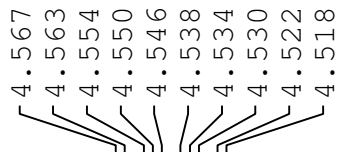
```

```
===== CHANNEL f1 =====
SFO1          399.9024695 MHz
NUC1              1H
P1              11.40 usec
PLW1          4.09999990 W
```

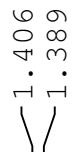
```

F2 - Processing parameters
SI                131072
SF                399.9000096 MHz
WDW               EM
SSB               0
LB                0.10 Hz
GB               0
PC               1.00

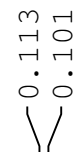
```

```
F2 - Processing parameters
SI                131072
SF                399.9000096 MHz
WDW               EM
SSB               0
LB                0.10 Hz
GB               0
PC               1.00
```



— 0.891



```
Current Data Parameters
NAME          I-PK-13
EXPNO          10
PROCNO         1
```

F2 - Acquisition Parameters

Date_	20171108
Time	15.21
INSTRUM	spect
PROBHD	5 mm PABBO BB/
PULPROG	zg30
TD	131072
SOLVENT	CDC13
NS	64
DS	0
SWH	12019.230 Hz
FIDRES	0.091699 Hz
AQ	5.4525952 sec
RG	32
DW	41.600 usec
DE	10.58 usec
TE	300.0 K
D1	0.10000000 sec
TD0	1

===== CHANNEL f1 =====

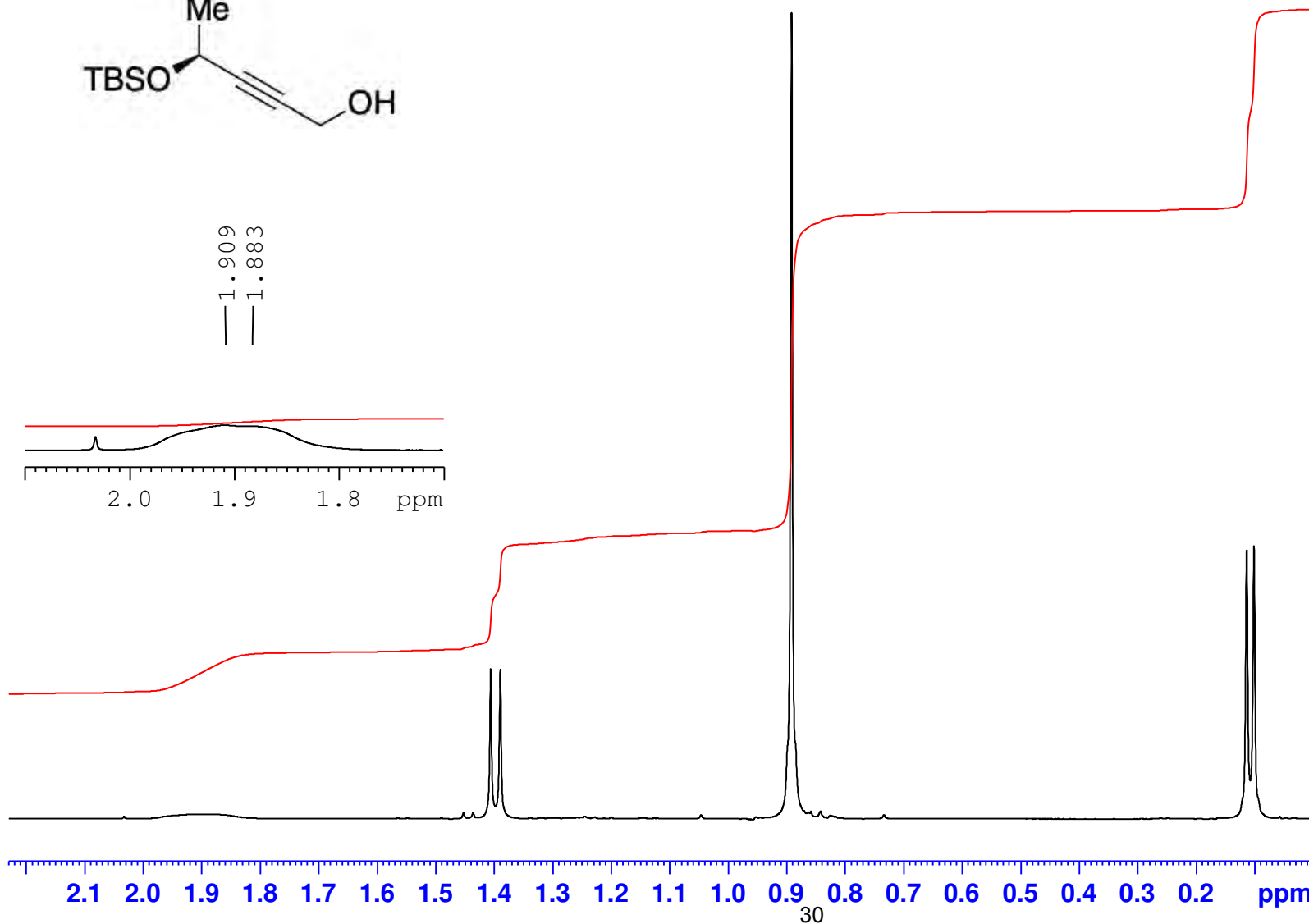
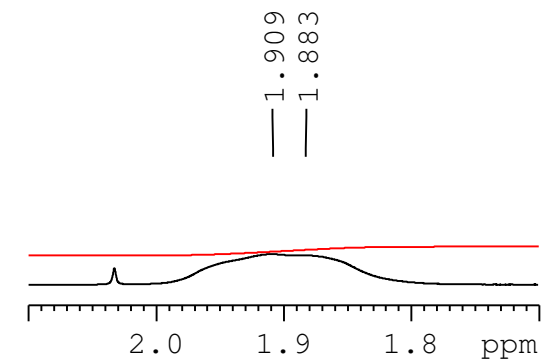
```

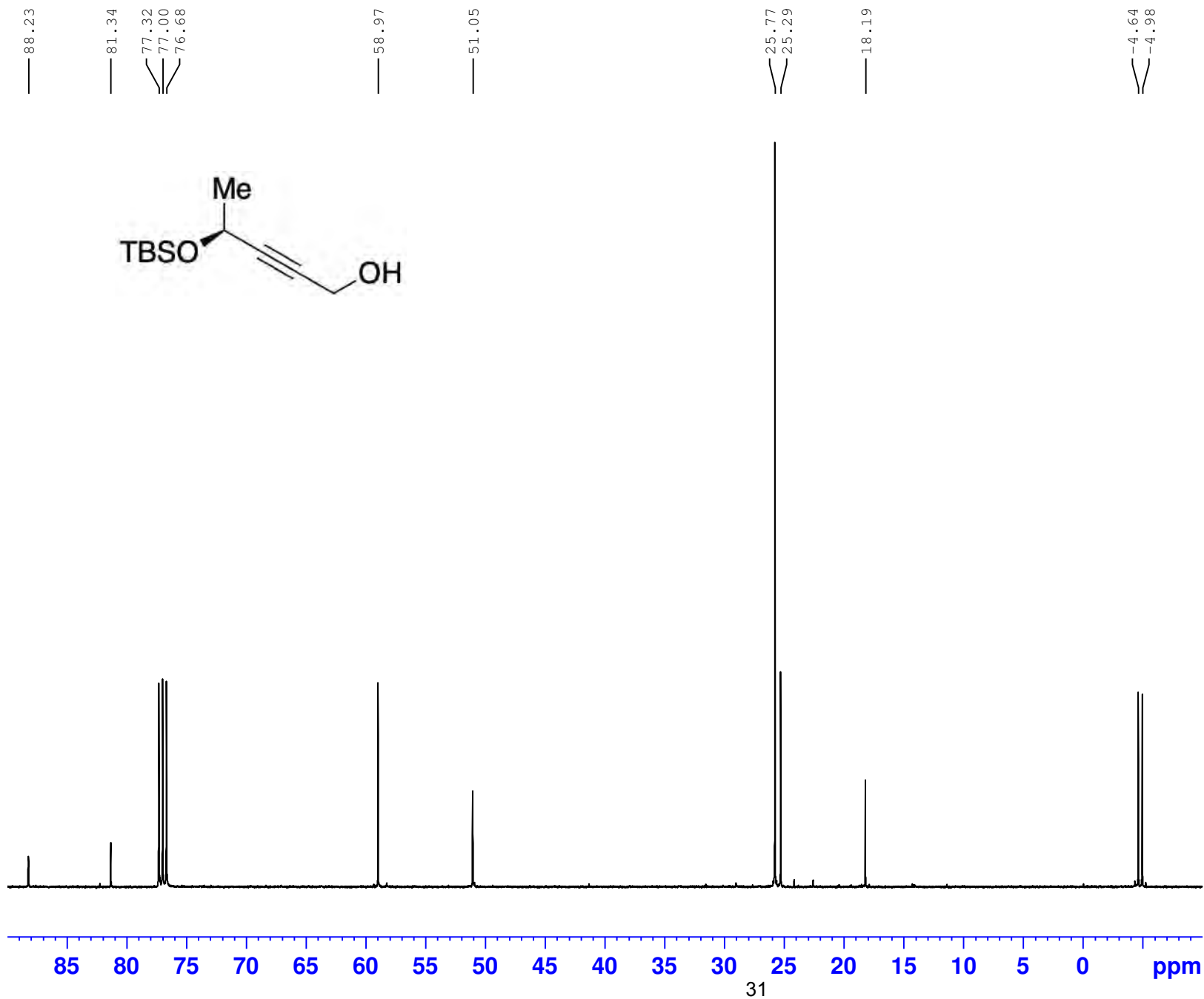
SF01          399.9024695 MHz
NUC1          1H
P1            11.40 usec
PLW1          4.09999990 W

```

F2 - Processing parameters

SI	131072	
SF	399.9000096	MHz
WDW	EM	
SSB	0	
LB	0.10	Hz
GB	0	
PC	1.00	





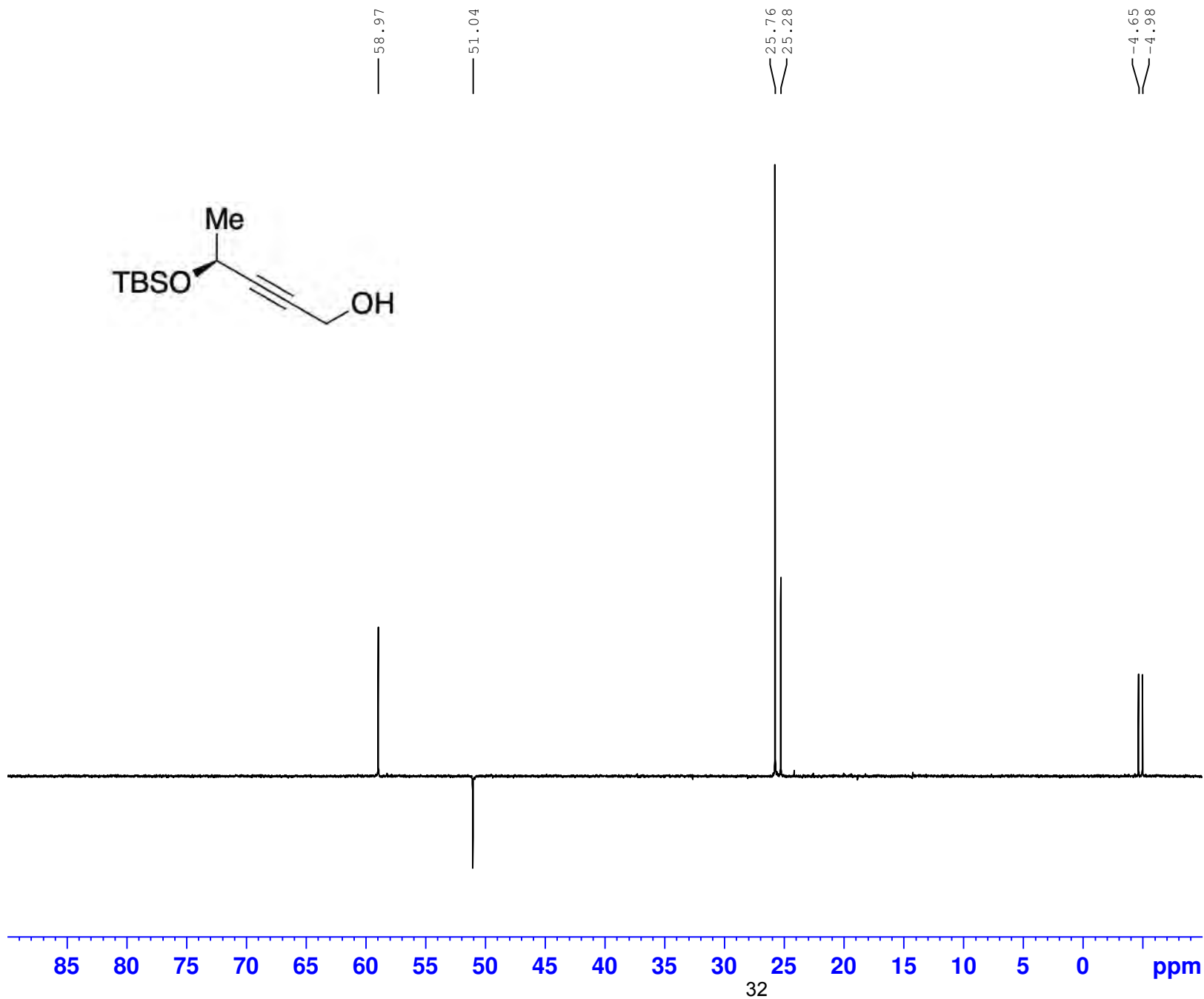
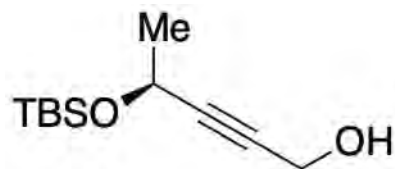
Current Data Parameters
 NAME I-PK-13
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171108
 Time 16.38
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1300
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 17.37999916 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 4.09999990 W
 PLW12 0.06578200 W
 PLW13 0.05328400 W

F2 - Processing parameters
 SI 131072
 SF 100.5549380 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



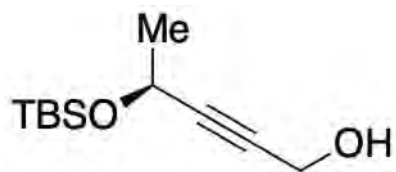
Current Data Parameters
 NAME I-PK-13
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171108
 Time 16.54
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptsp135
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 17.37999916 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 2.65549994 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 11.40 usec
 P4 22.80 usec
 PCPD2 90.00 usec
 PLW2 4.09999990 W
 PLW12 0.06578200 W

F2 - Processing parameters
 SI 32768
 SF 100.5549386 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-13
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171108
 Time_ 16.56
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 2167.630 Hz
 FIDRES 1.058413 Hz
 AQ 0.4724053 sec
 RG 2050
 DW 230.667 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.64077991 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00046120 sec

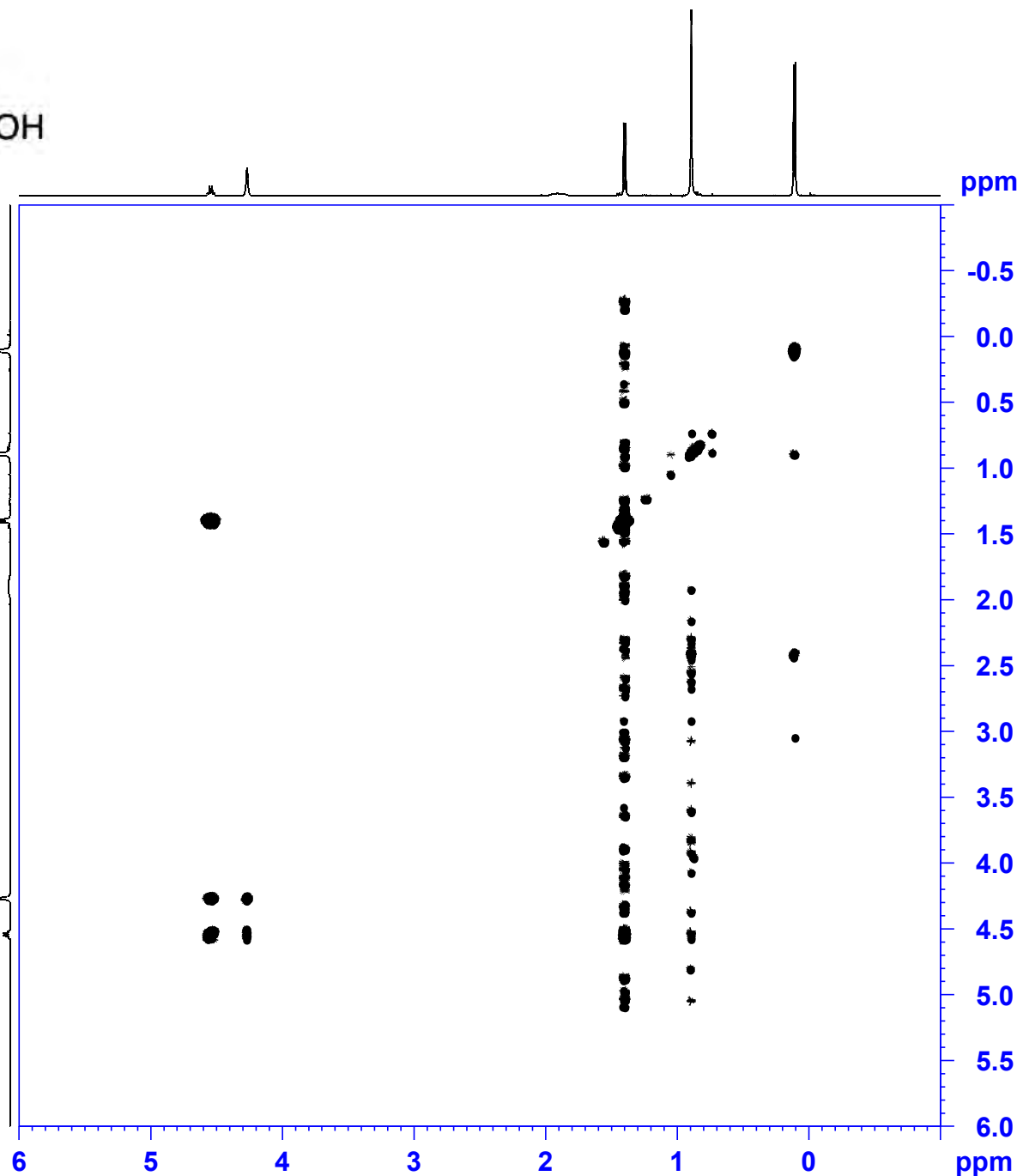
===== CHANNEL f1 =====
 SFO1 399.9009750 MHz
 NUC1 1H
 P1 11.40 usec
 P17 2500.00 usec
 PLW1 4.09999990 W
 PLW10 0.78821999 W

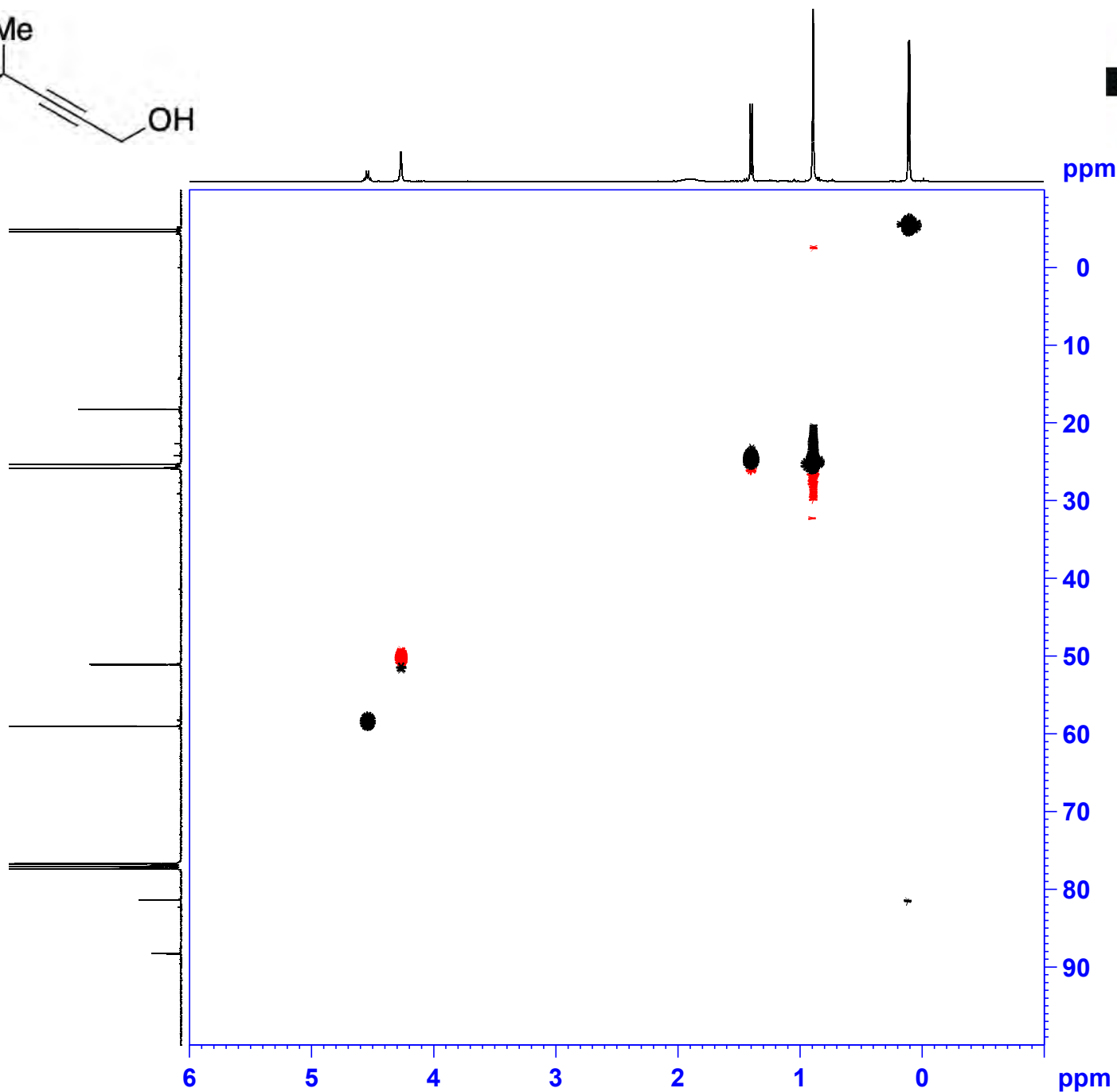
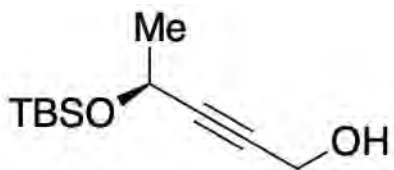
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.901 MHz
 FIDRES 16.939507 Hz
 SW 5.422 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000087 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000101 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
 NAME I-PK-13
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171108
 Time 17.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 300.0 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 0.00001910 sec

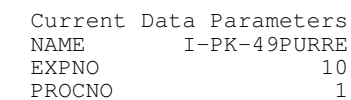
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 ^1H
 P1 11.40 usec
 P2 22.80 usec
 P28 0 usec
 PLW1 4.09999990 W

===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 ^{13}C
 CPDPRG[2] garp4
 P3 10.00 usec
 P14 500.00 usec
 P31 1900.00 usec
 FCPD2 80.00 usec
 PLW0 0 W
 PLW2 17.37999916 W
 PLW12 0.27156001 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 2.65549994 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 0.63628000 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FnmODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 399.9018806 MHz



```

F2 - Acquisition Parameters
Date_                20180315
Time                 18.38
INSTRUM              spect
PROBHDD      5 mm PABBO BB/
PULPROG              zg30
TD                   131072
SOLVENT              CDCl3
NS                     64
DS                      0
SWH                   12019.230 Hz
FIDRES                0.091699 Hz
AQ                   5.4525952 sec
RG                      32
DW                   41.600 usec
DE                     9.85 usec
TE                   297.4 K
D1                   0.10000000 sec
TD0                    1

```

```
===== CHANNEL f1 =====
SFO1      399.9024695 MHz
NUC1              1H
P1              14.88 usec
PLW1       7.59999990 W
```

```

F2 - Processing parameters
SI                      131072
SF                      399.9000098 MHz
WDW                      EM
SSB                      0
LB                      0.10 Hz
GB                      0
PC                      1.00

```

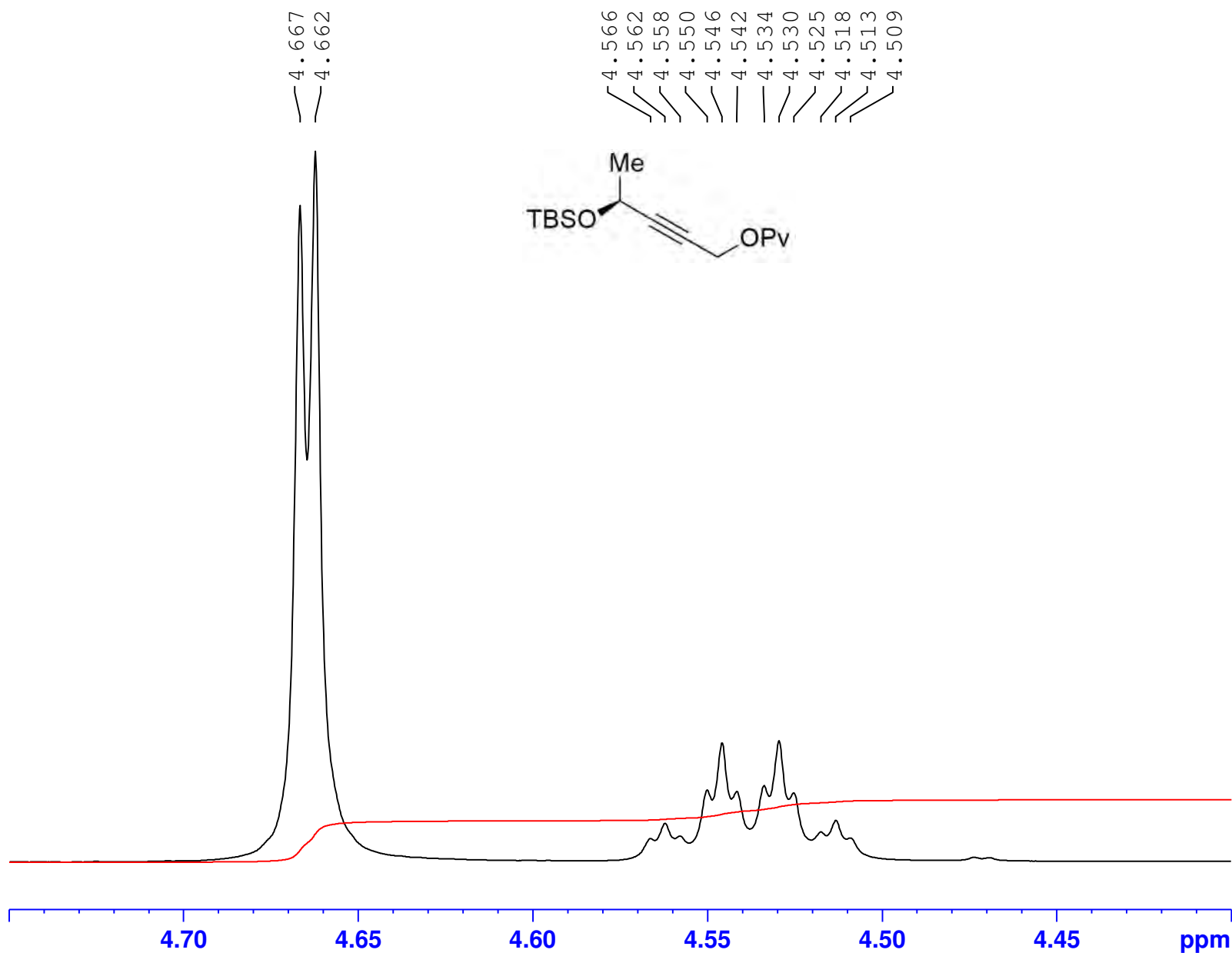



Current Data Parameters
 NAME I-PK-49PURRE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180315
 Time 18.38
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 32
 DW 41.600 usec
 DE 9.85 usec
 TE 297.4 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000098 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



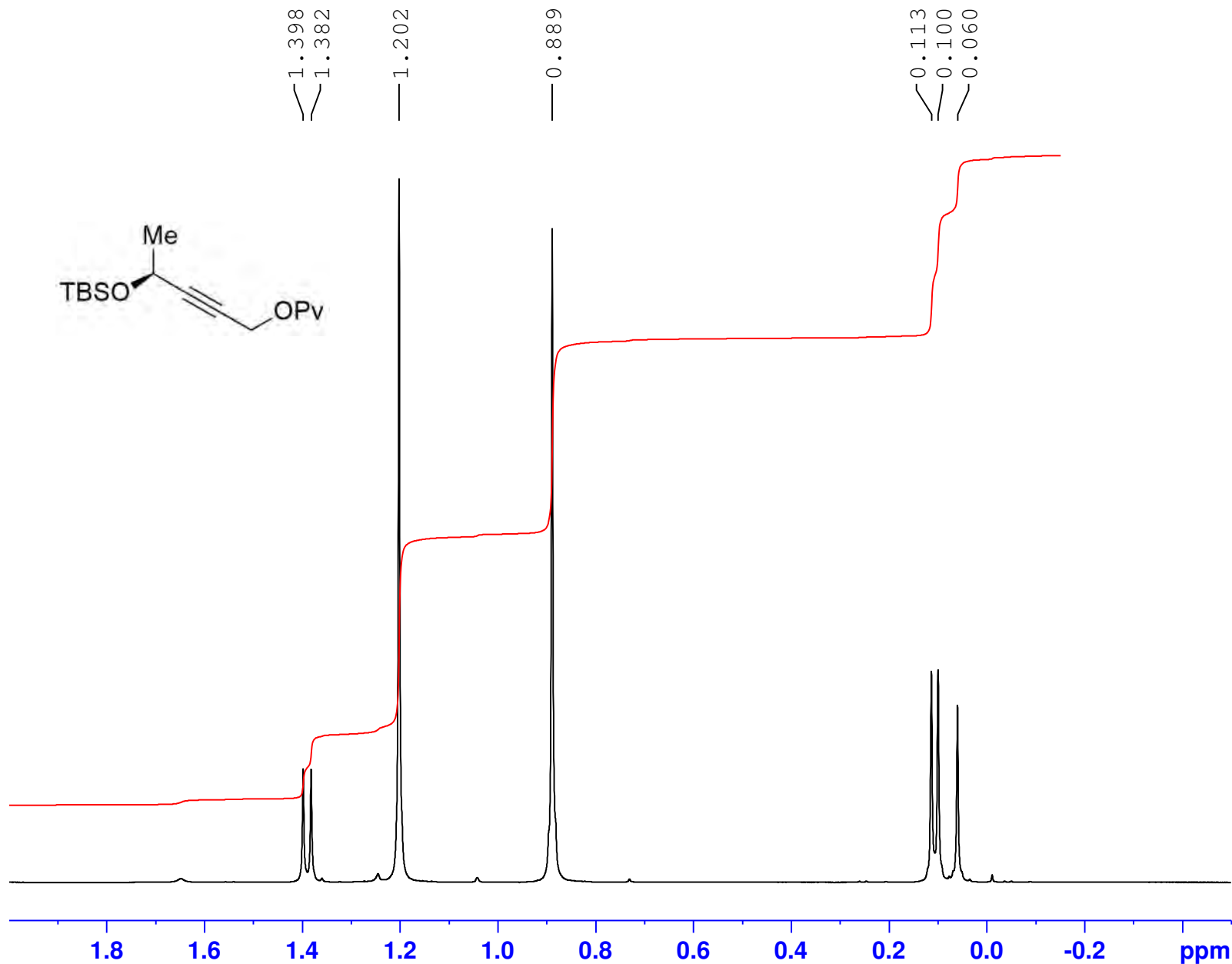


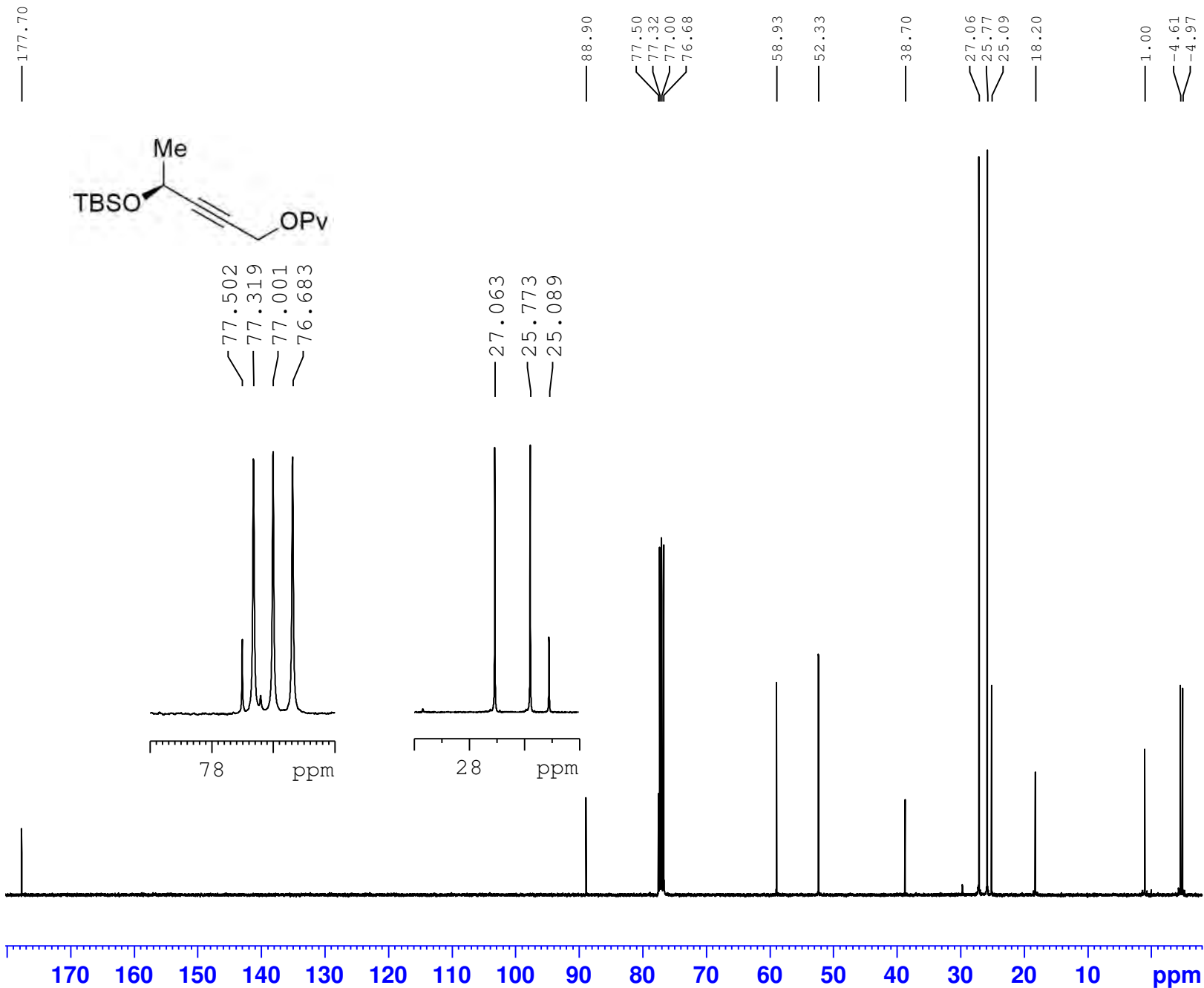
Current Data Parameters
NAME I-PK-49PURRE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180315
Time 18.38
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 32
DW 41.600 usec
DE 9.85 usec
TE 297.4 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





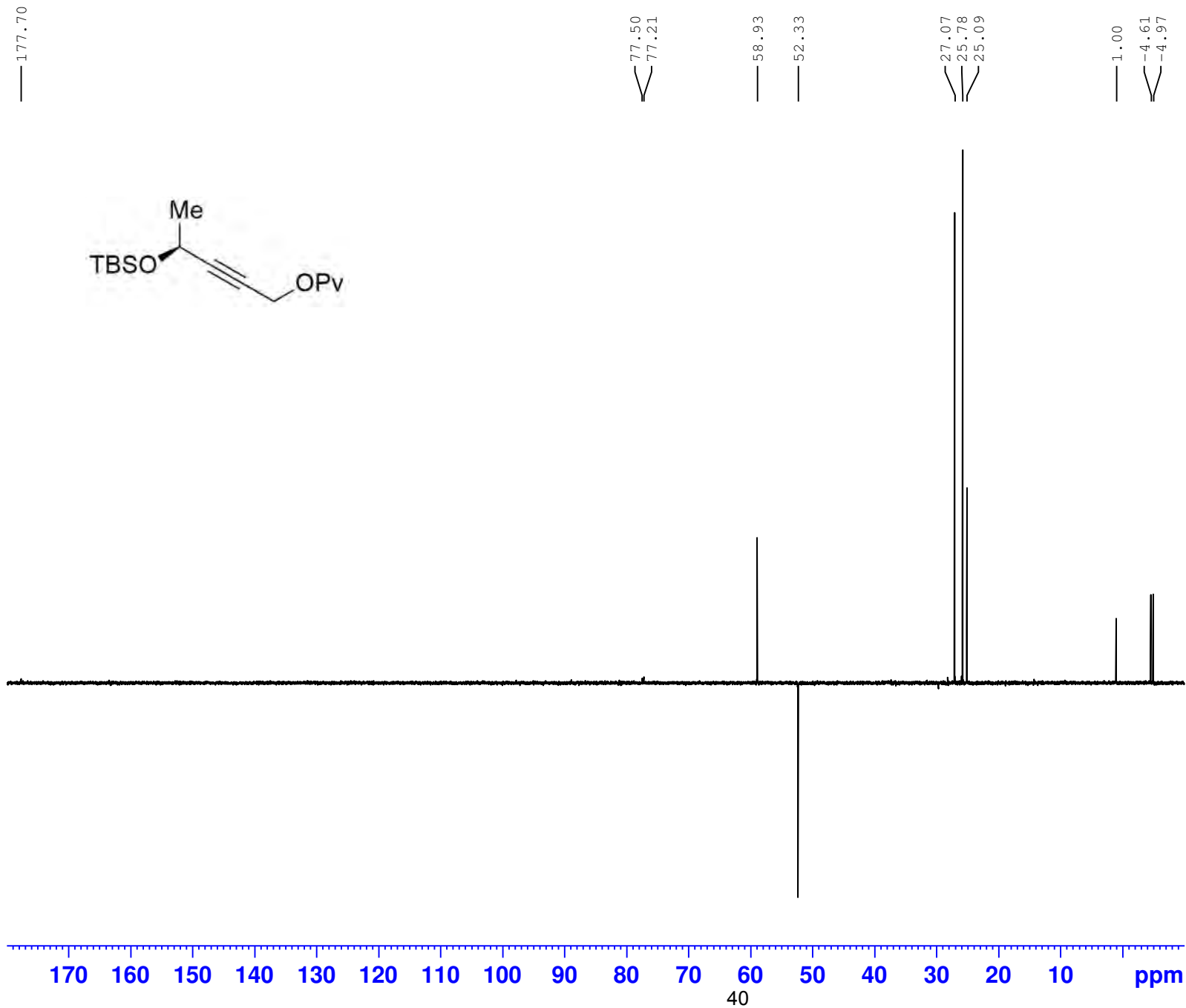
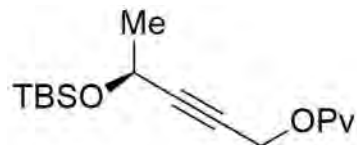
Current Data Parameters
NAME I-PK-49PURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180315
Time 19.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 298.5 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549364 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



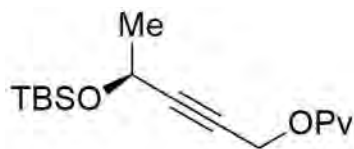
Current Data Parameters
 NAME I-PK-49PURRE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180315
 Time 20.07
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 1820
 DW 20.800 usec
 DE 6.50 usec
 TE 297.8 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549361 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-49PURRE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180315
 Time_ 20.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygmfpqf
 TD 2048
 SOLVENT CDC13
 NS 1
 DS 8
 SWH 4921.260 Hz
 FIDRES 2.402959 Hz
 AQ 0.2080768 sec
 RG 2050
 DW 101.600 usec
 DE 6.50 usec
 TE 297.4 K
 D0 0.00000300 sec
 D1 0.94388402 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00020340 sec

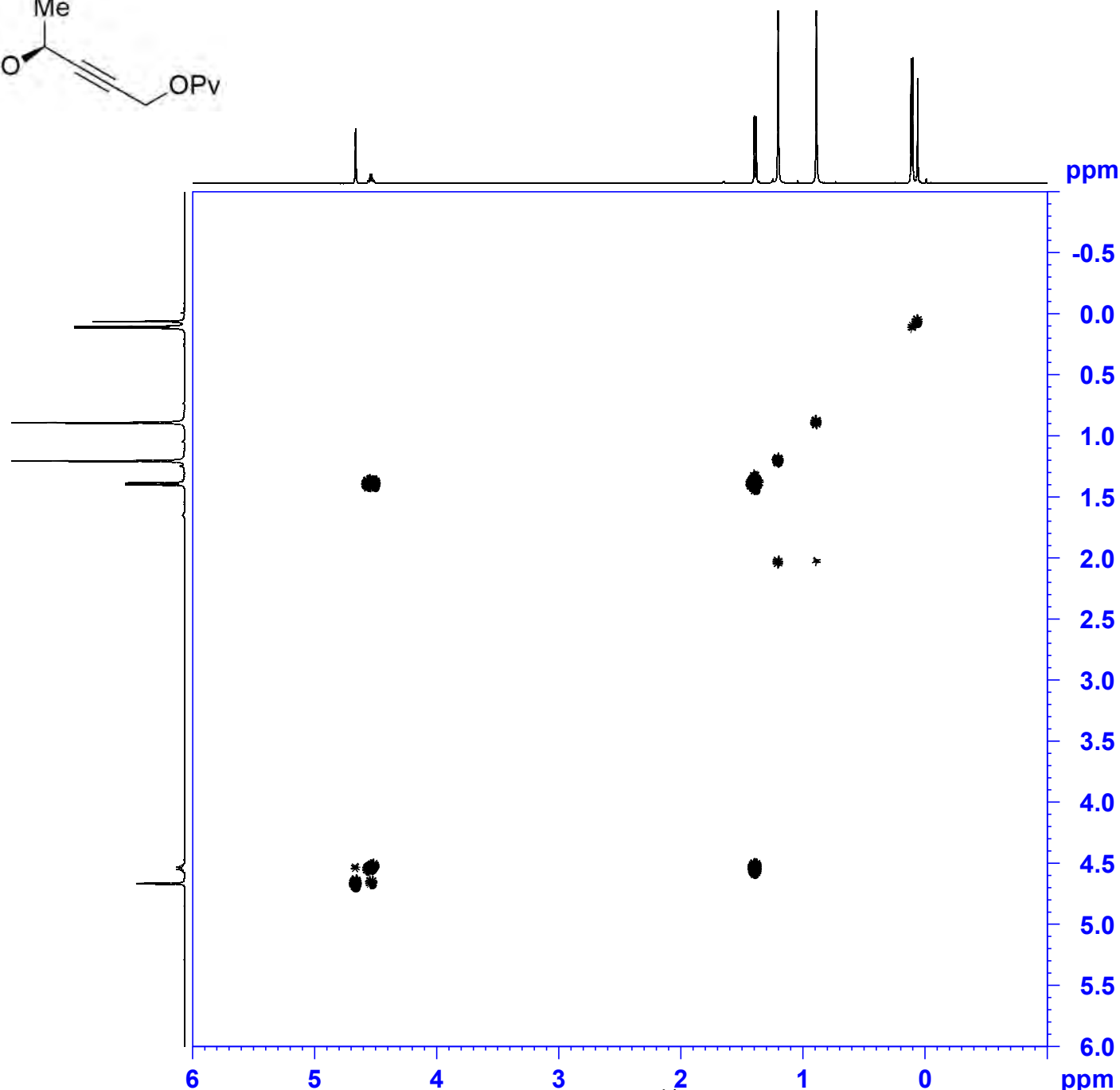
===== CHANNEL f1 =====
 SFO1 399.9008189 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

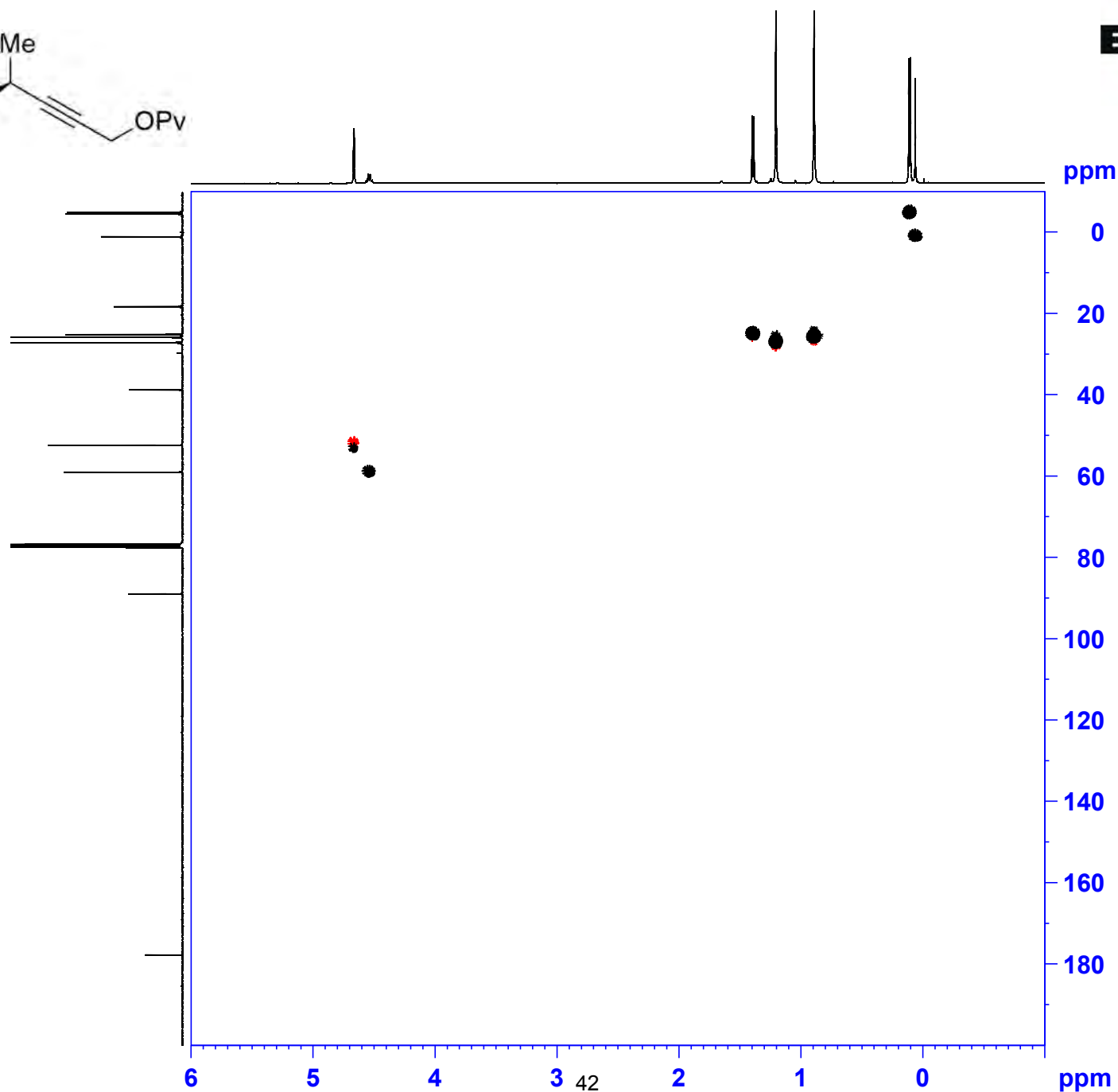
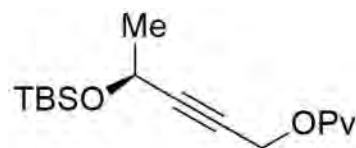
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9008 MHz
 FIDRES 38.409538 Hz
 SW 12.294 ppm
 FhMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000086 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000081 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
NAME I-PK-49PURRE
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date 20180315
Time 20.16
INSTRUM spect
PROBHD 5 mm FABBO BB/
PULPROG hsqcedetgpgp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 297.5 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 0.00001910 sec

===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SFOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SFOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters

Mass Spectrometry Result Sheet

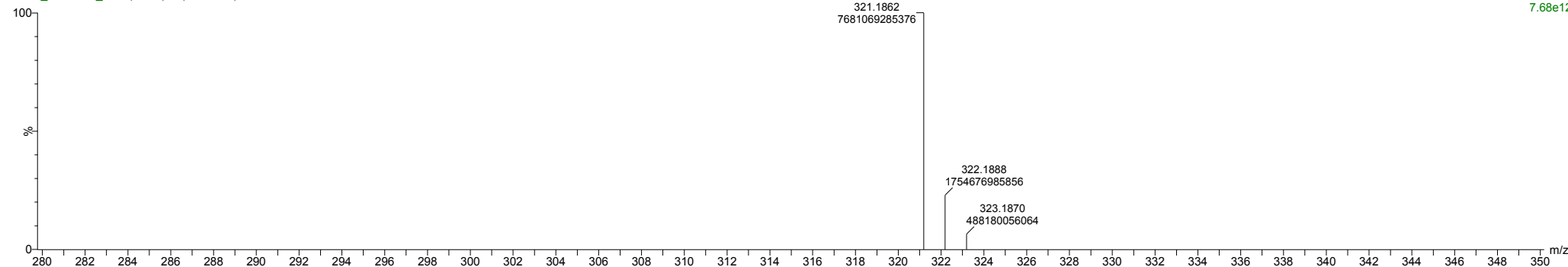
Waters Xevo G2-XS QToF Mass Spectrometer

23-02-2018

I-PK-49

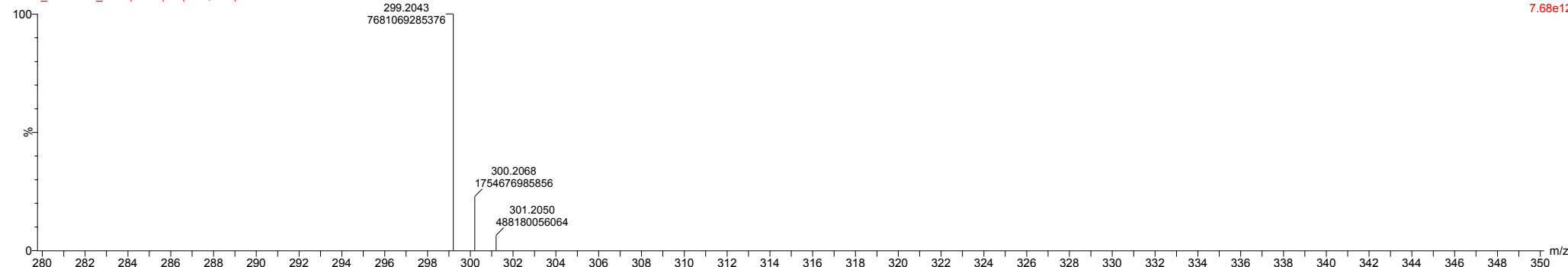
ASEP_26FEB18_022 (0.053) Is (1.00,1.00) C₁₆H₃₀O₃SiNa

1: TOF MS ES+
7.68e12



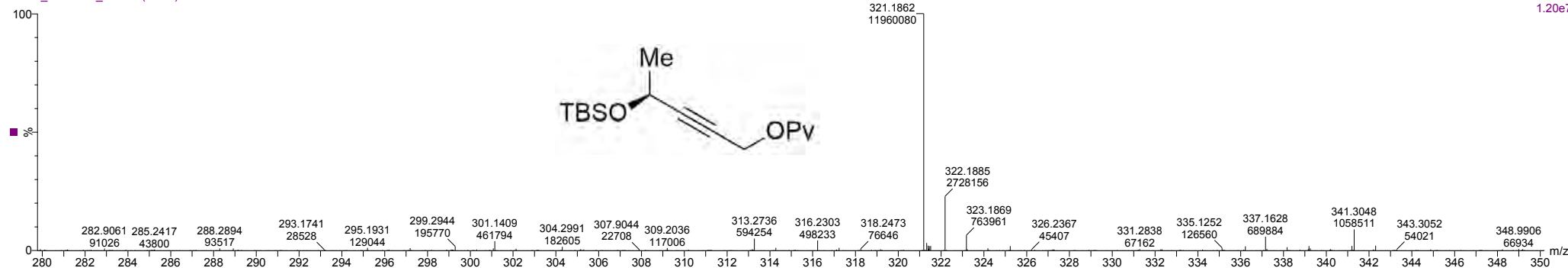
ASEP_26FEB18_022 (0.364) Is (1.00,1.00) C₁₆H₃₀O₃Si

1: TOF MS ES+
7.68e12



ASEP_26FEB18_022 17 (0.364)

1: TOF MS ES+
1.20e7



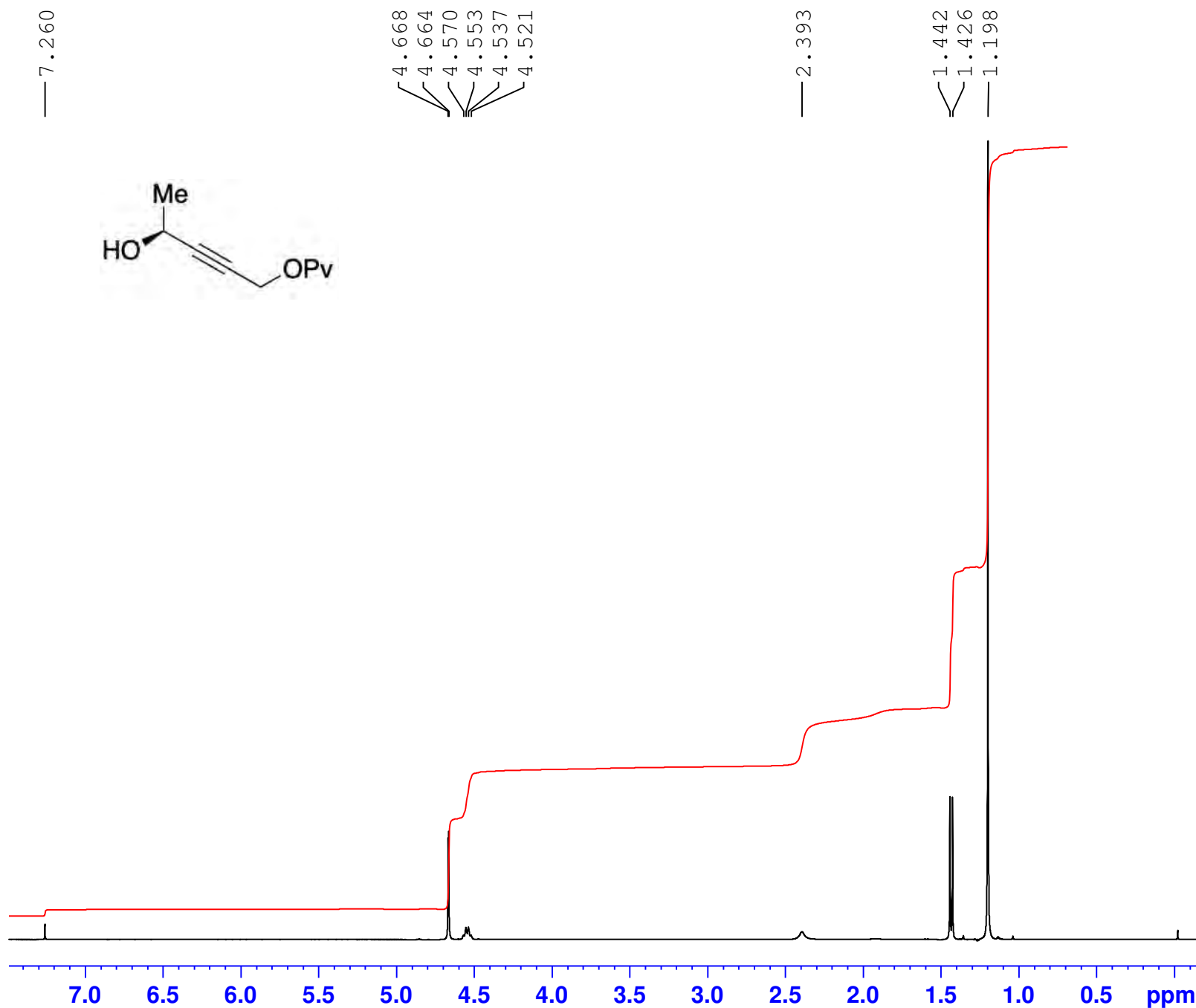


Current Data Parameters
 NAME I-PK-51PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180220
 Time 8.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 45.2
 DW 41.600 usec
 DE 9.85 usec
 TE 295.9 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000097 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



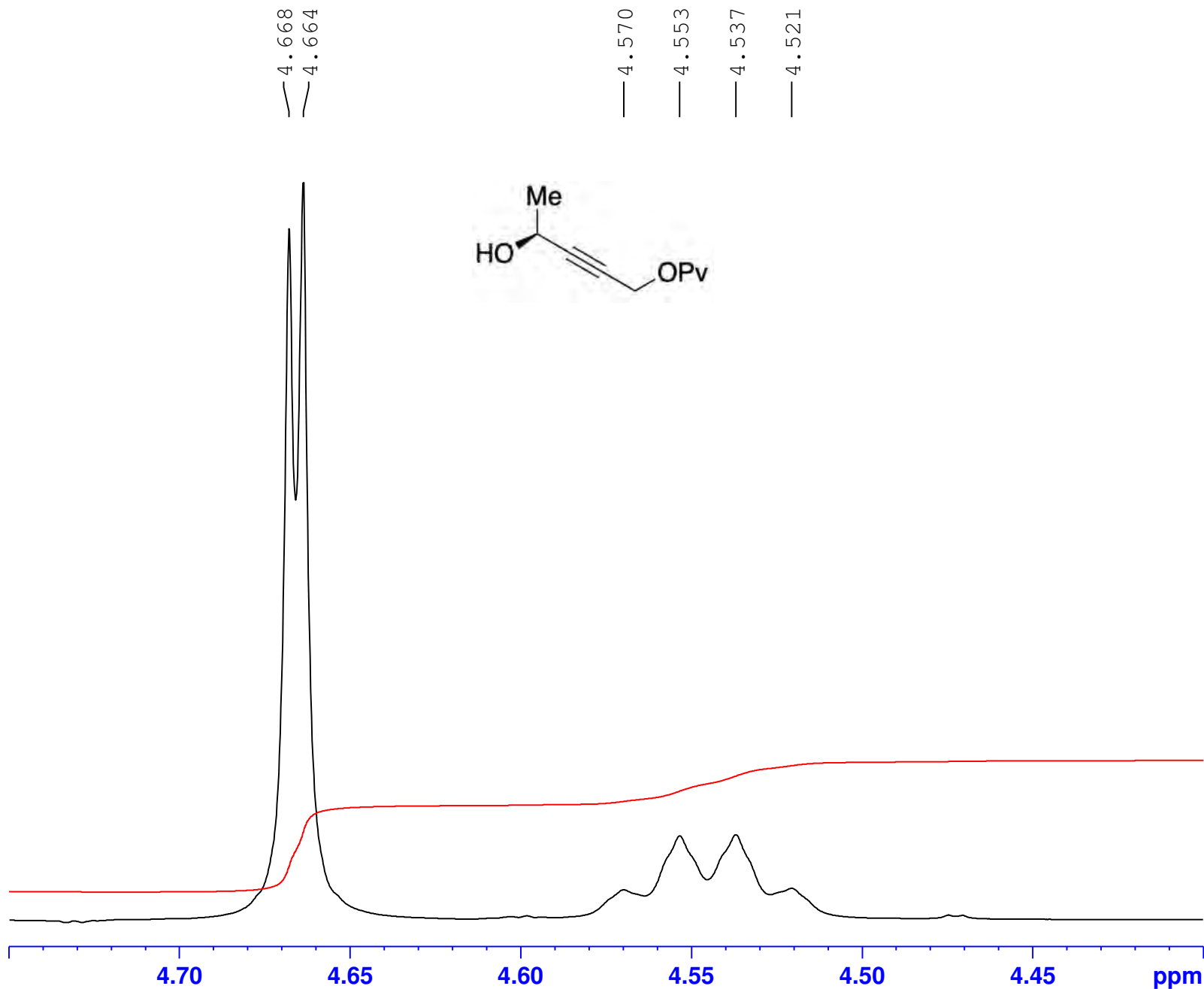
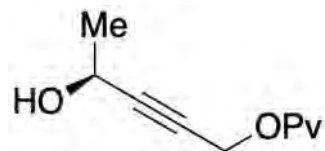


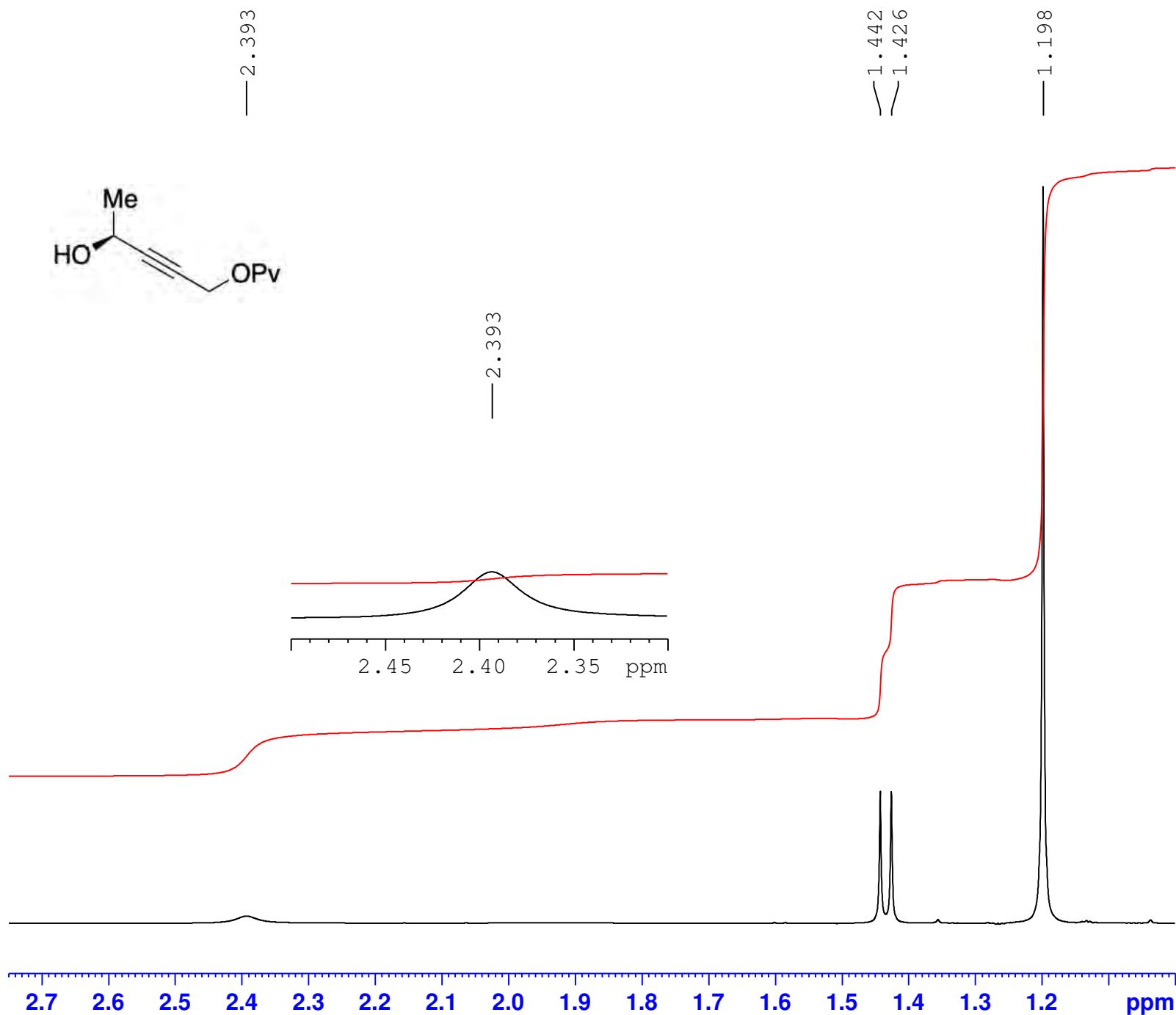
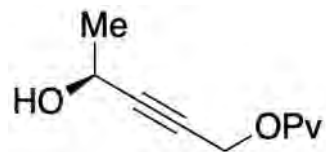
Current Data Parameters
NAME I-PK-51PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180220
Time 8.03
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 45.2
DW 41.600 usec
DE 9.85 usec
TE 295.9 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000097 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





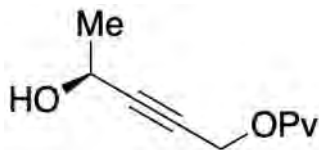
Current Data Parameters
 NAME I-PK-51PURE
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180220
 Time 8.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 45.2
 DW 41.600 usec
 DE 9.85 usec
 TE 295.9 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000097 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

— 177.91



78.162
77.317
77.202
76.999

88.30
78.16
77.32
77.20
77.00
76.68

58.16

52.27

38.68

27.01
23.99



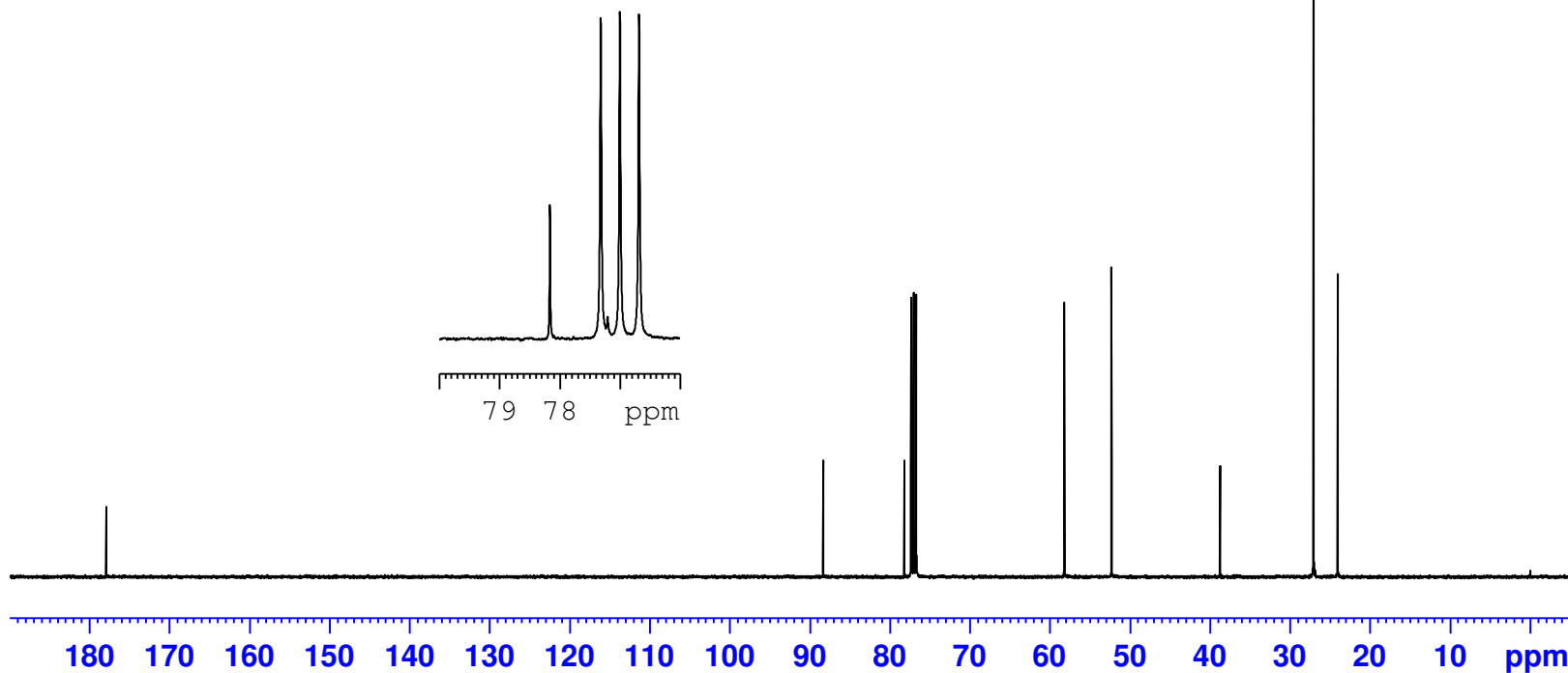
Current Data Parameters
NAME I-PK-51PURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180220
Time 9.14
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.4 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

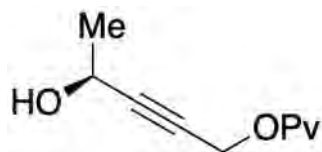
===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549399 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



—177.91



—88.30

—77.20

—58.16

—38.68

—27.01

—23.99



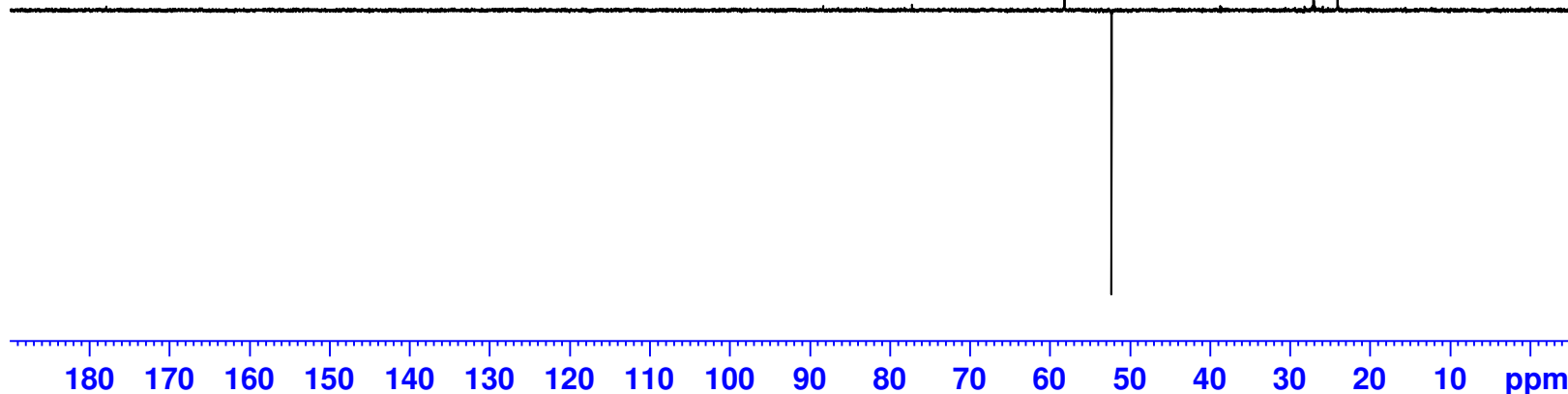
Current Data Parameters
NAME I-PK-51PURE
EXPNO 12
PROCNO 1

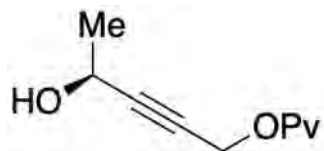
F2 - Acquisition Parameters
Date_ 20180220
Time 9.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 1820
DW 20.800 usec
DE 6.50 usec
TE 297.1 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5549398 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME I-PK-51PURE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180220
 Time 9.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygmfpfqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 4472.272 Hz
 FIDRES 2.183727 Hz
 AQ 0.2289664 sec
 RG 2050
 DW 111.800 usec
 DE 6.50 usec
 TE 296.7 K
 D0 0.00000300 sec
 D1 0.92135590 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00022360 sec

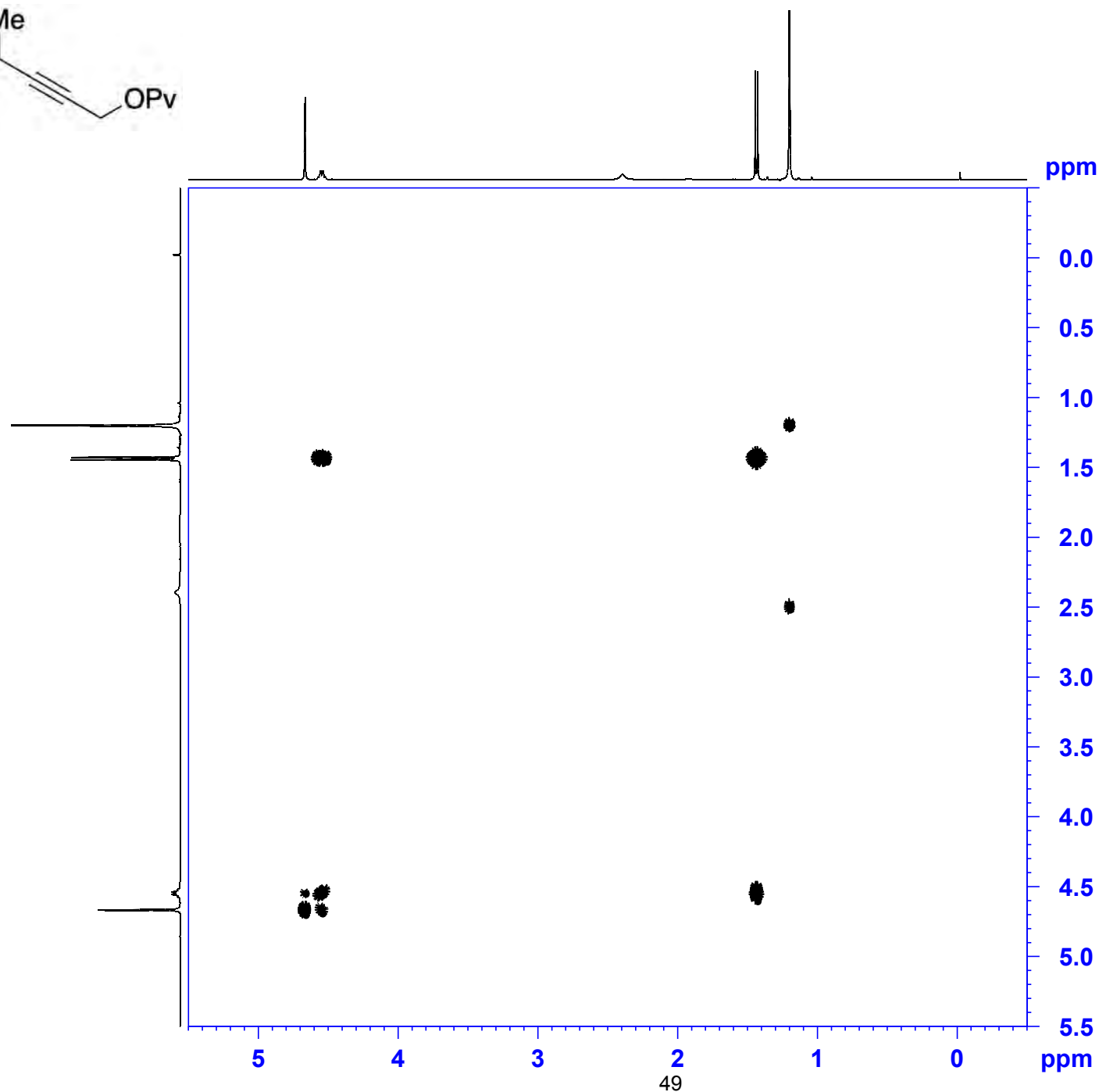
===== CHANNEL f1 =====
 SF01 399.9010158 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

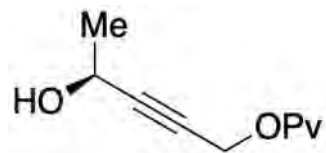
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 399.901 MHz
 FIDRES 34.939625 Hz
 SW 11.183 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000094 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000090 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
NAME I-PK-51PURE
EXFNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180220
Time 9.43
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgppsp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 297.0 K
CNST2 145.0000000
D0 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.030000000 sec
D16 0.00020000 sec
D21 0.00360000 sec
IN0 0.00001910 sec

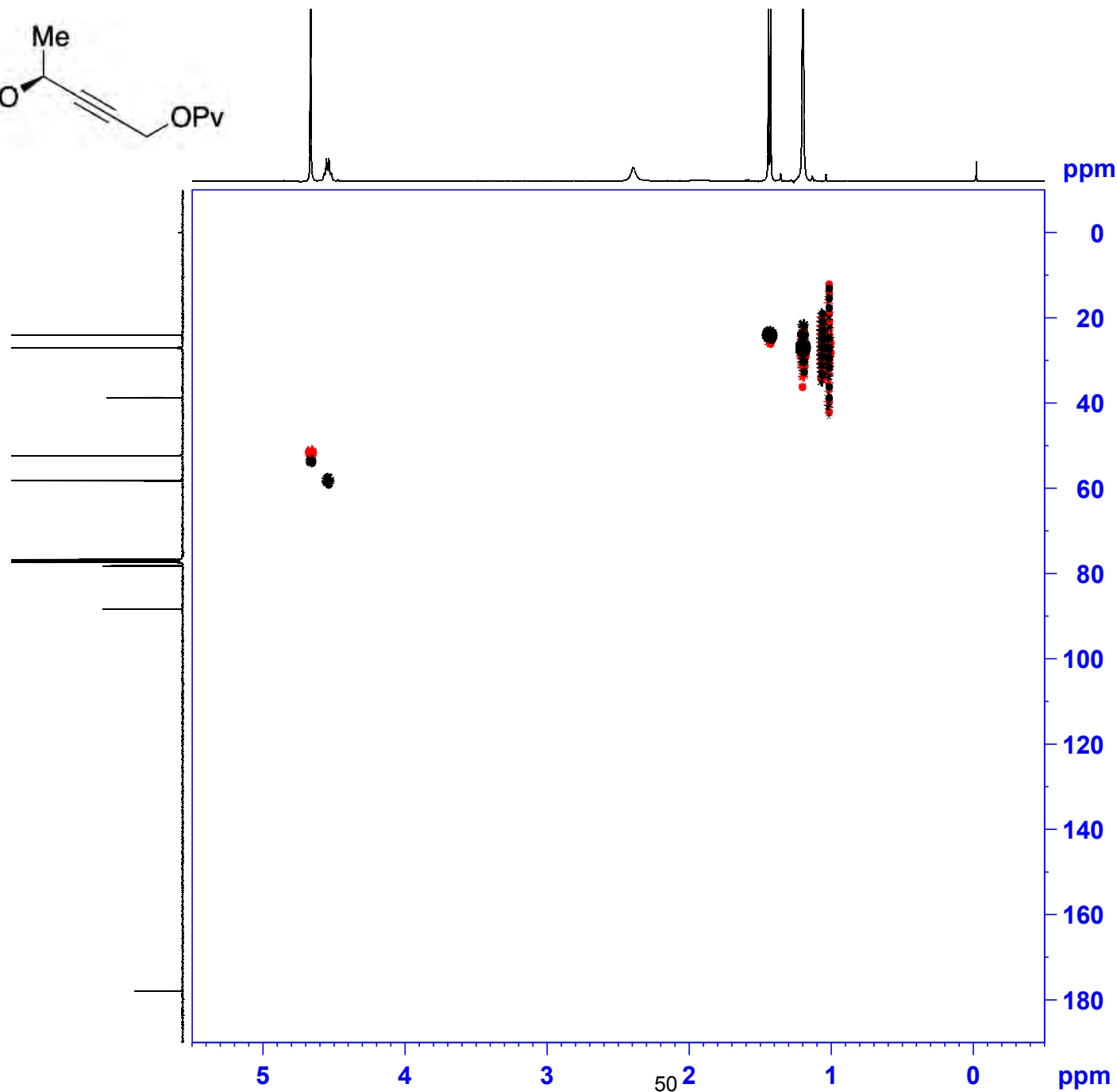
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000087 MHz
WDW QSINE



Mass Spectrometry Result Sheet

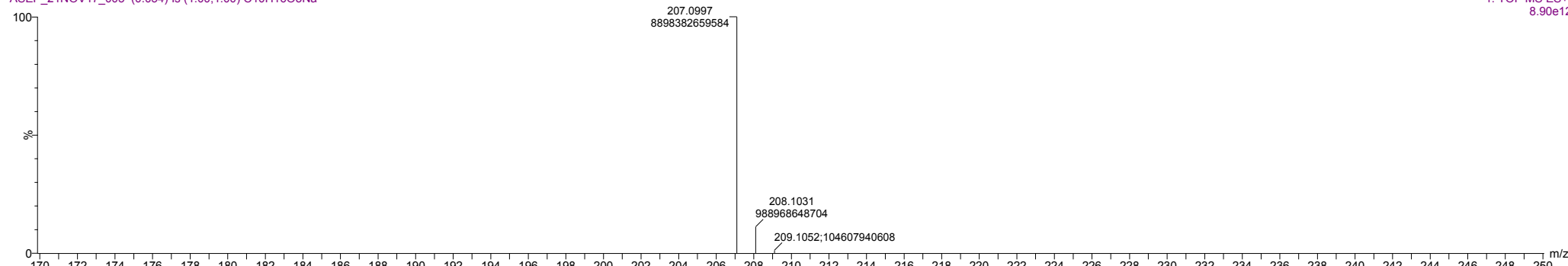
Waters Xevo G2-XS QToF Mass Spectrometer

15-11-2017

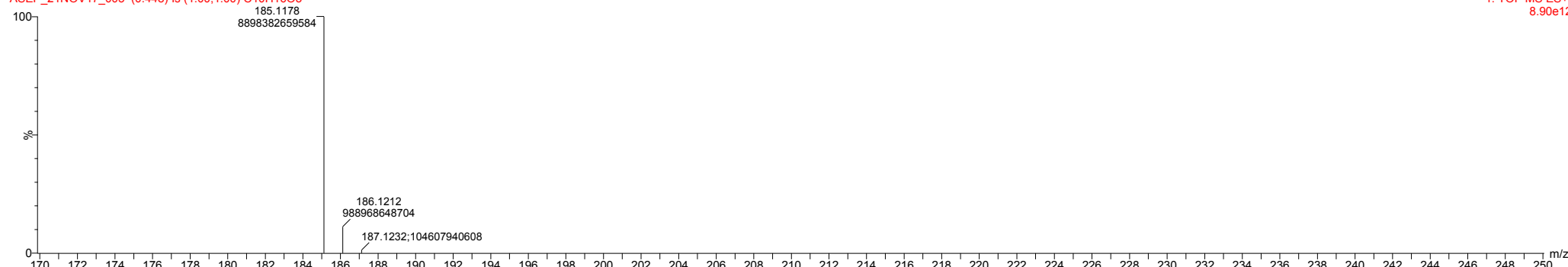
1: TOF MS ES+
8.90e12

I-PK-15

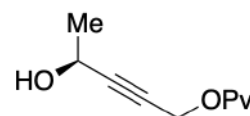
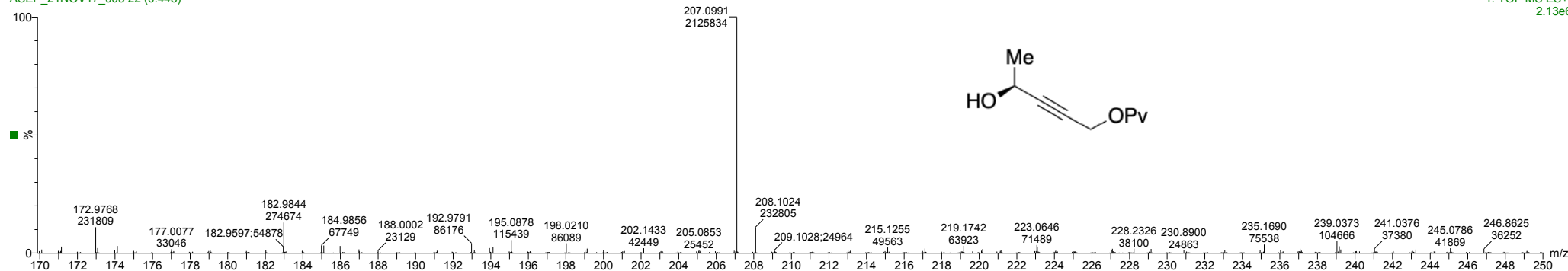
ASEP_21NOV17_005 (0.054) Is (1.00,1.00) C₁₀H₁₆O₃Na



ASEP_21NOV17_005 (0.448) Is (1.00,1.00) C₁₀H₁₆O₃



ASEP_21NOV17_005 22 (0.448)



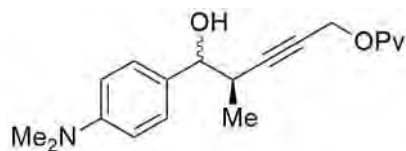
7.260
7.257
7.256
7.242
7.241
7.226
7.212
6.710
6.696

4.691
4.688
4.630
4.627

2.944
2.941

1.224
1.221
1.205
1.201
1.134
1.123
1.061
1.049

— 0.000



in a mixture of 1 : 1 ratio

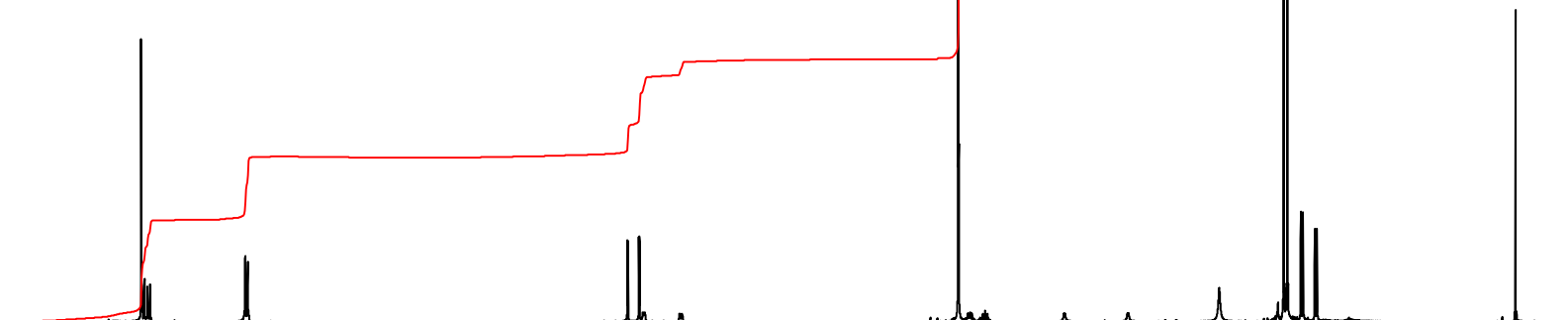


Current Data Parameters
NAME III-PK-66
EXPNO 10
PROCNO 1

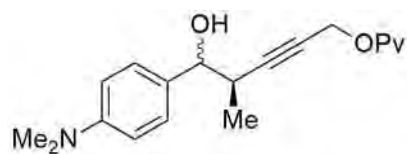
F2 - Acquisition Parameters
Date_ 20191107
Time 10.06
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDC13
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300144 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm



in a mixture of 1 : 1 ratio

4.691
4.688
4.630
4.627

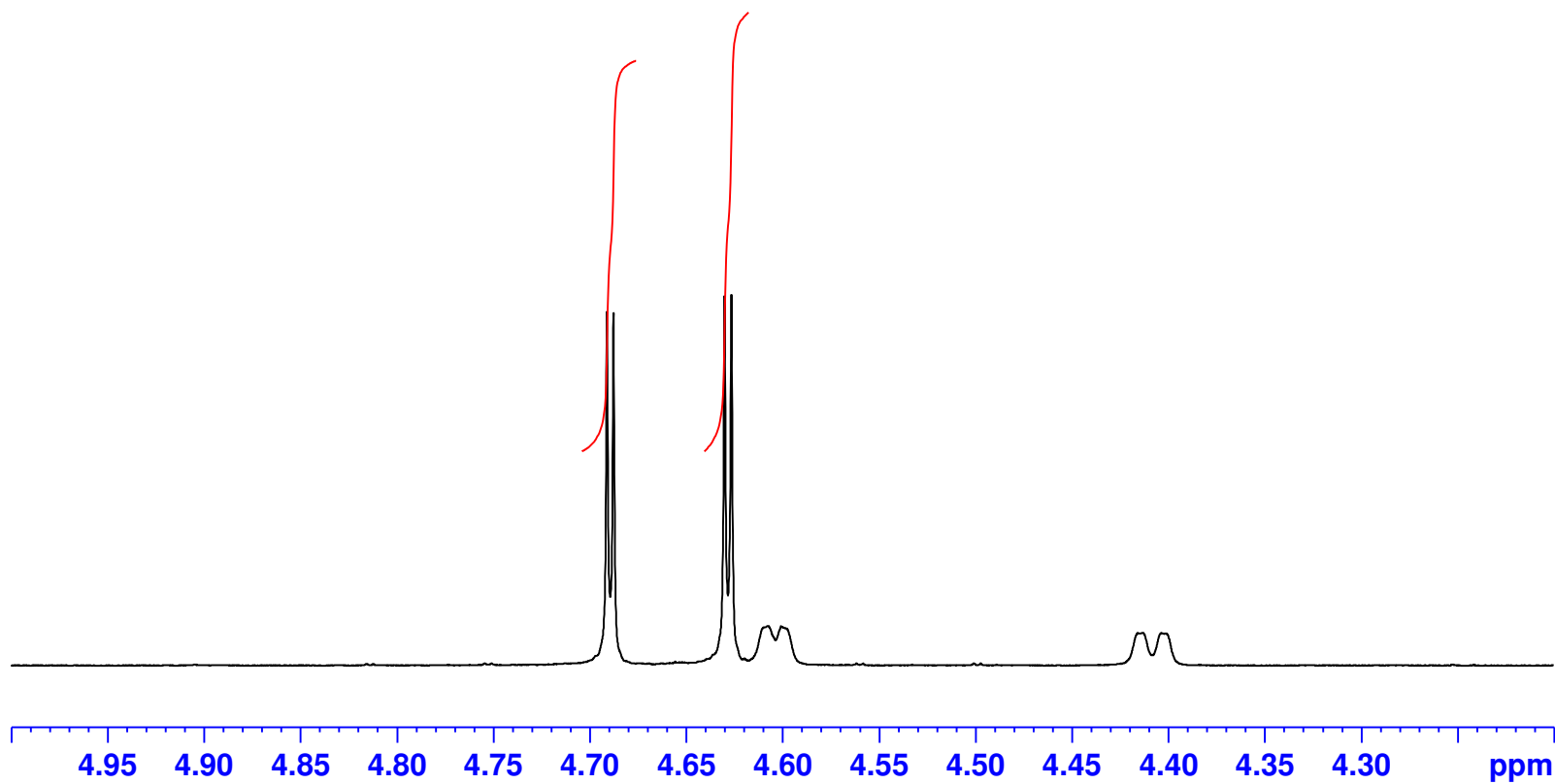


Current Data Parameters
NAME III-PK-66
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191107
Time 10.06
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

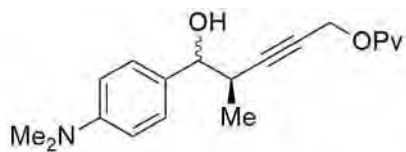
F2 - Processing parameters
SI 262144
SF 600.1300144 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



1.00
1.12

7.260
7.256
7.234
7.227
7.205
6.710
6.689

4.688
4.683
4.626
4.620
4.598
4.583
4.415
4.397
2.940
2.938
2.891
2.876
2.873
2.859
2.841
2.820
2.816
2.811
2.803
2.798
2.793
2.786
2.781
2.775
2.769
2.440
2.143
1.224
1.204
1.199
1.137
1.119
1.061
1.043

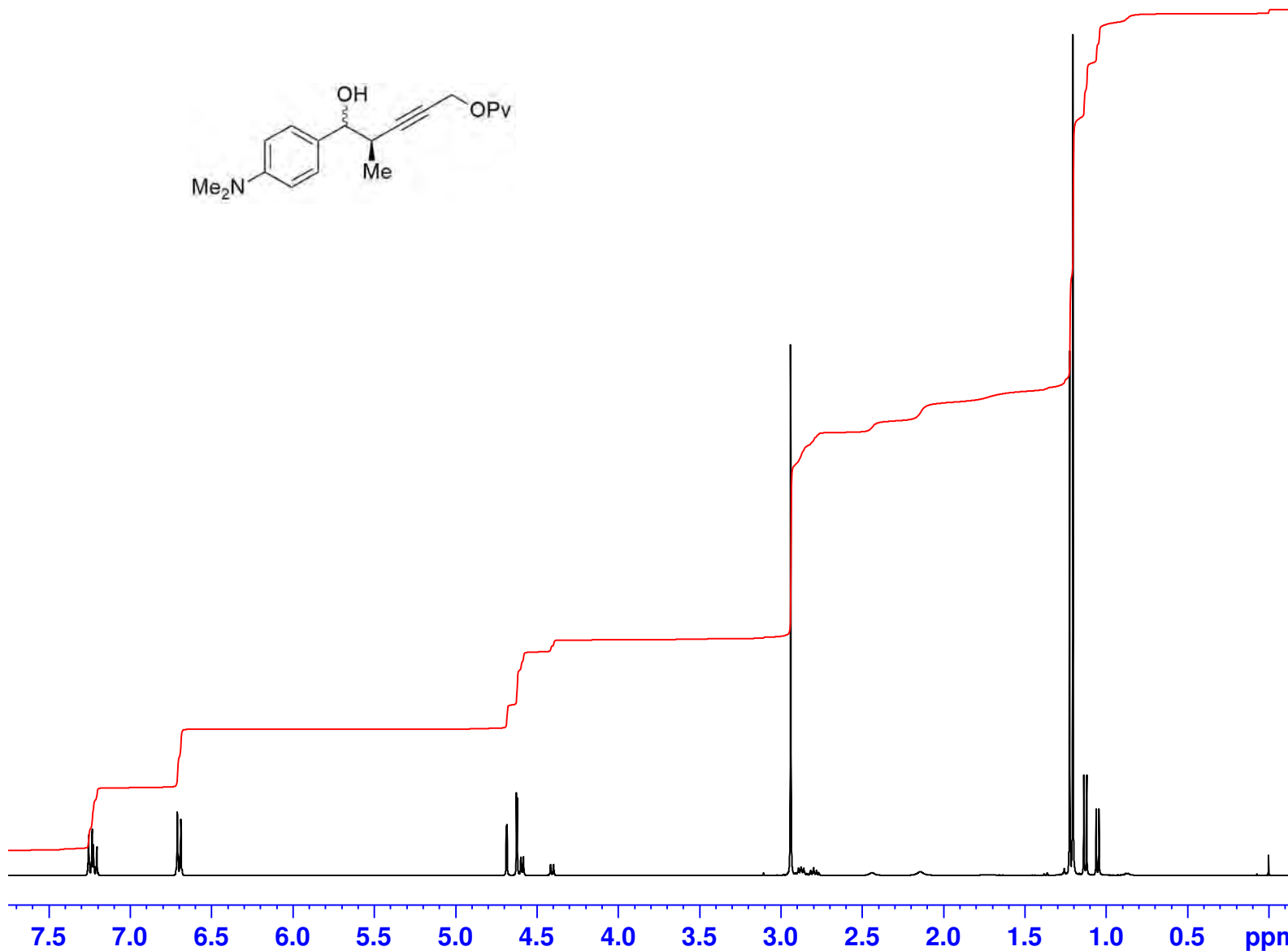


Current Data Parameters
NAME I-PK-20-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171128
Time 13.19
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 36
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

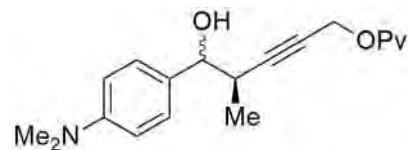
===== CHANNEL f1 =====
SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



7.260
7.256
7.234
7.227
7.205

6.710
6.689

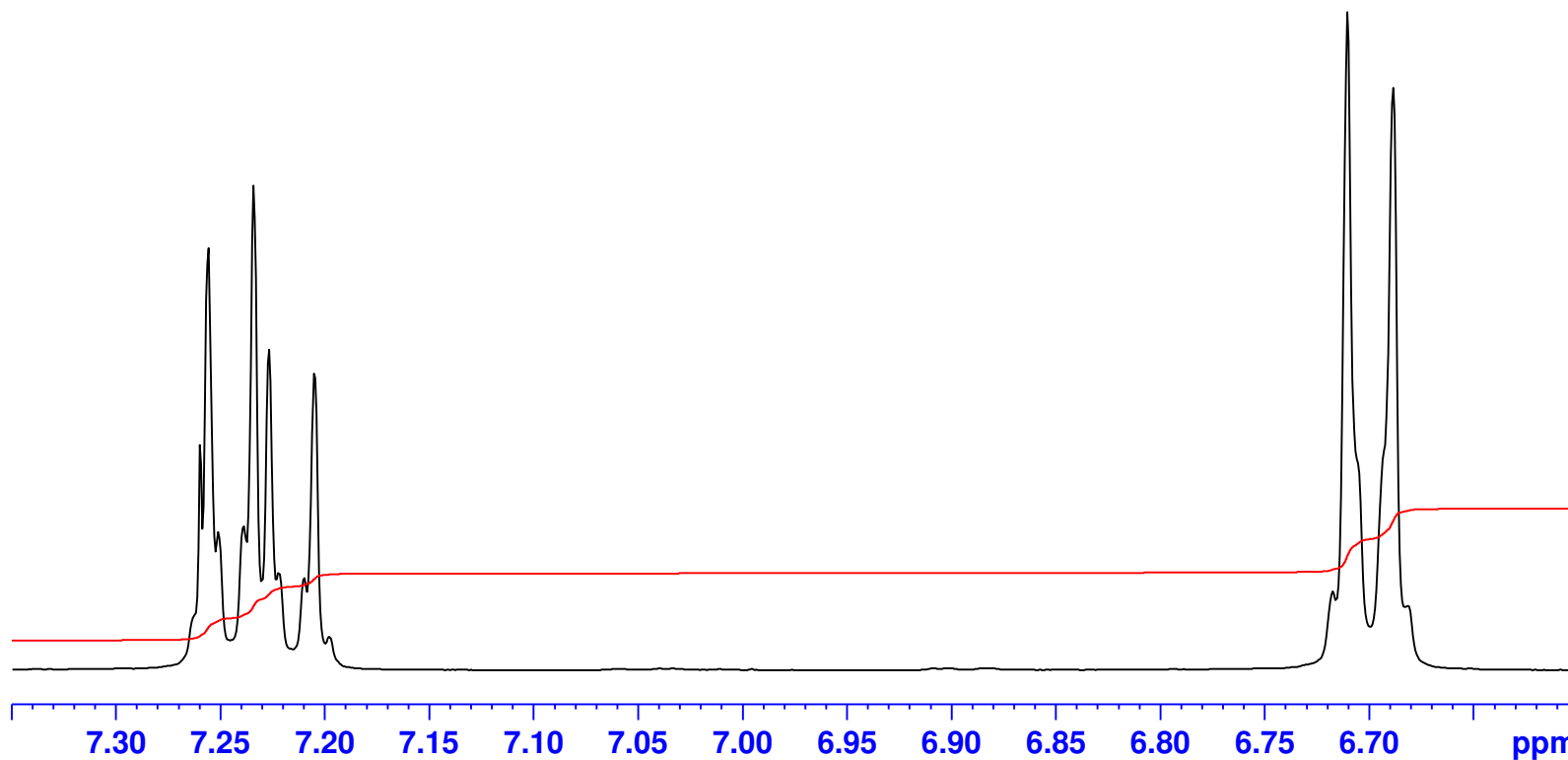


Current Data Parameters
NAME I-PK-20-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171128
Time 13.19
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 36
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

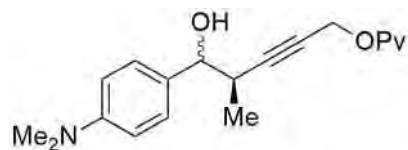


— 4.688
— 4.683

— 4.626
— 4.620

— 4.598
— 4.583

— 4.415
— 4.397

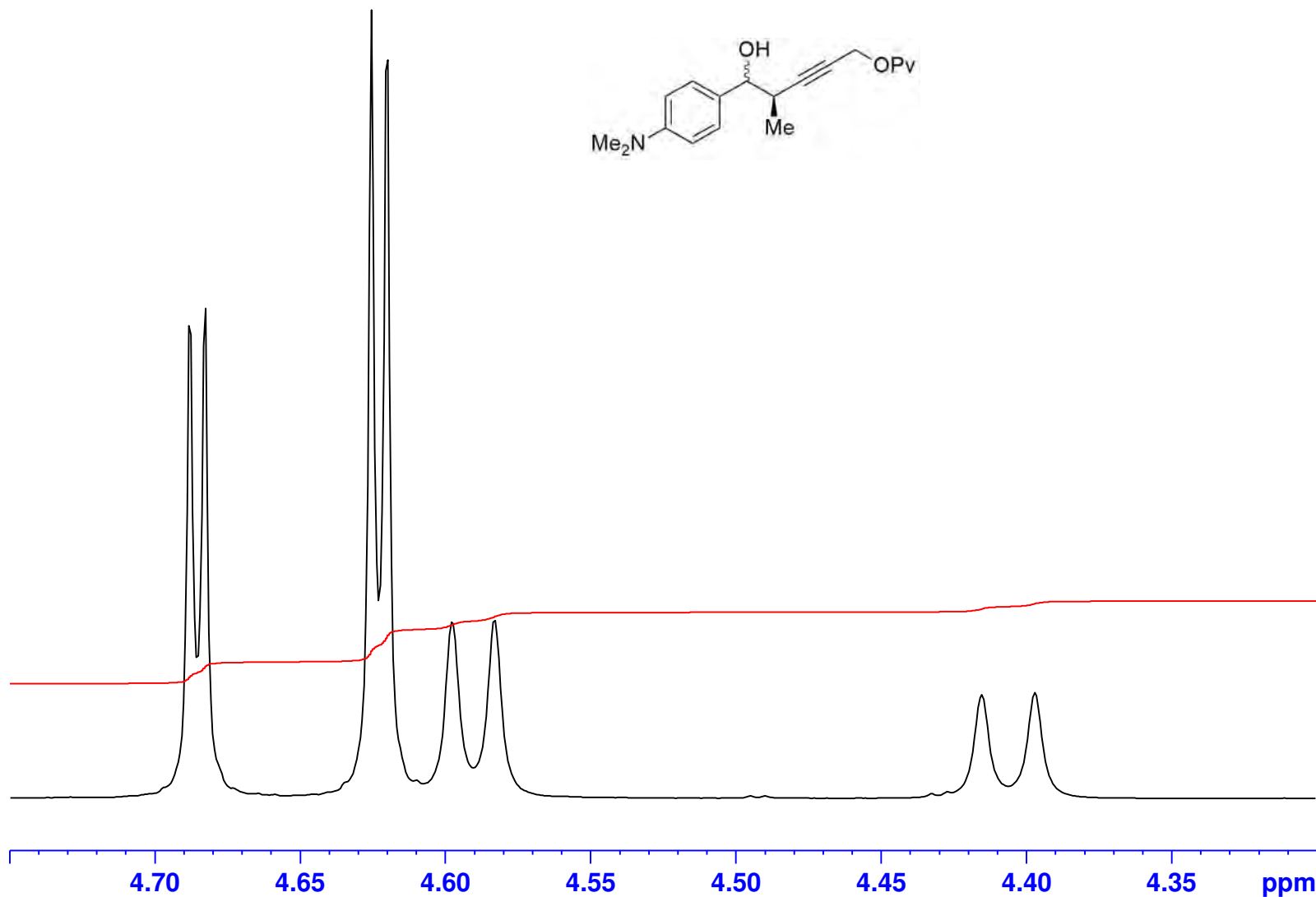


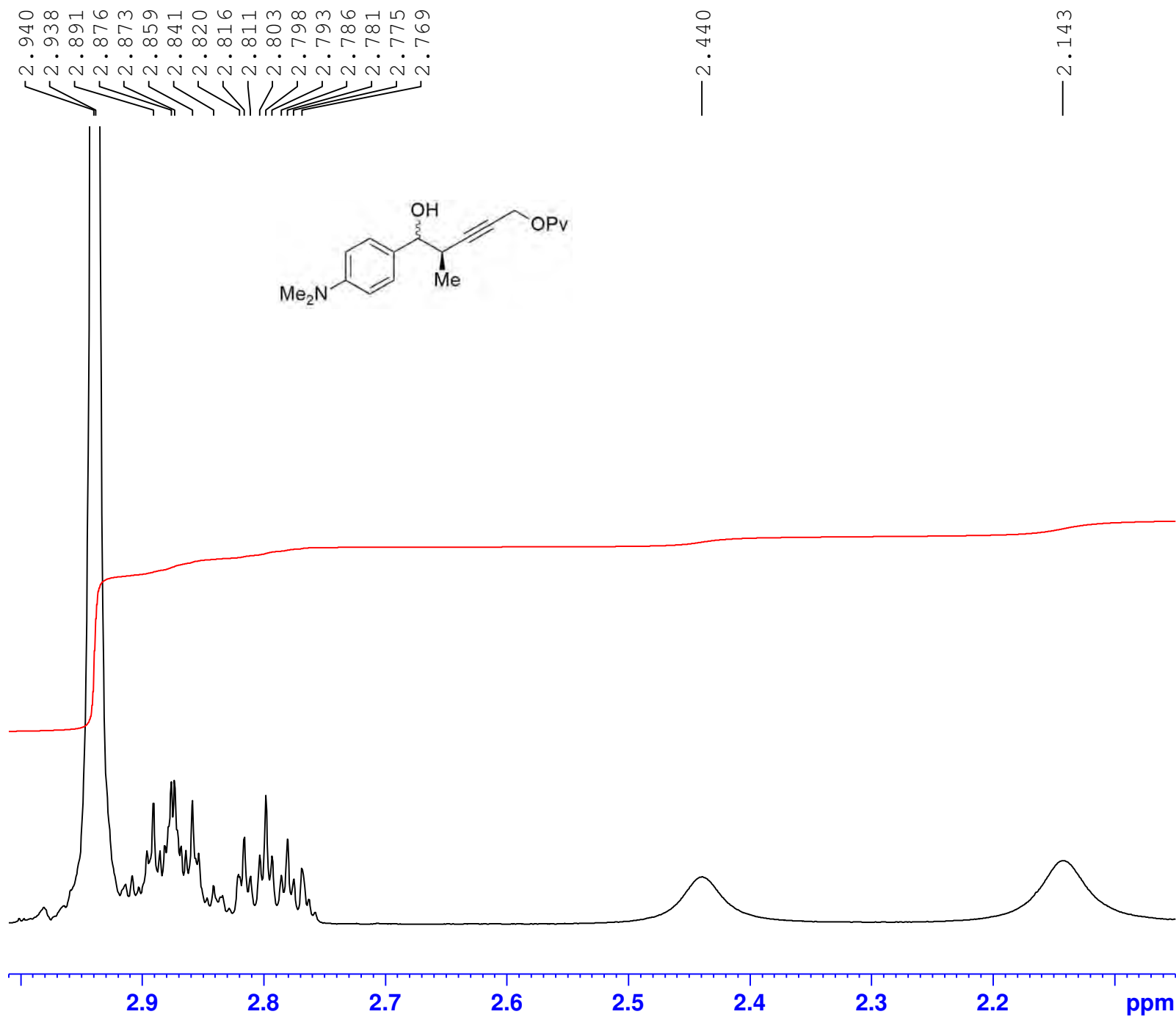
Current Data Parameters
NAME I-PK-20-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171128
Time 13.19
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 36
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME I-PK-20-03
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171128
 Time 13.19
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 36
 DW 60.800 usec
 DE 16.82 usec
 TE 300.0 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 400.1124708 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 400.1100099 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

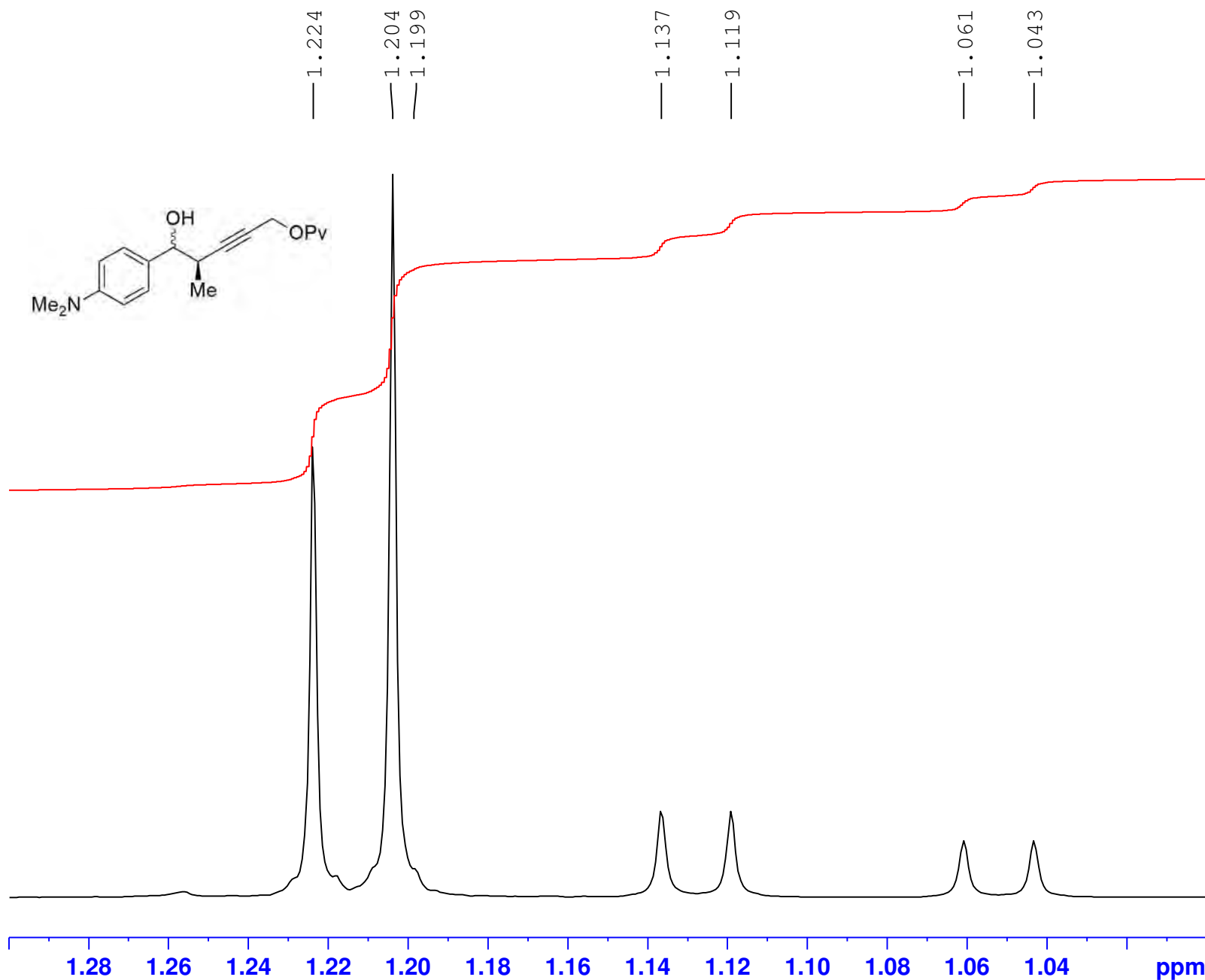


Current Data Parameters
NAME I-PK-20-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171128
Time 13.19
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 36
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





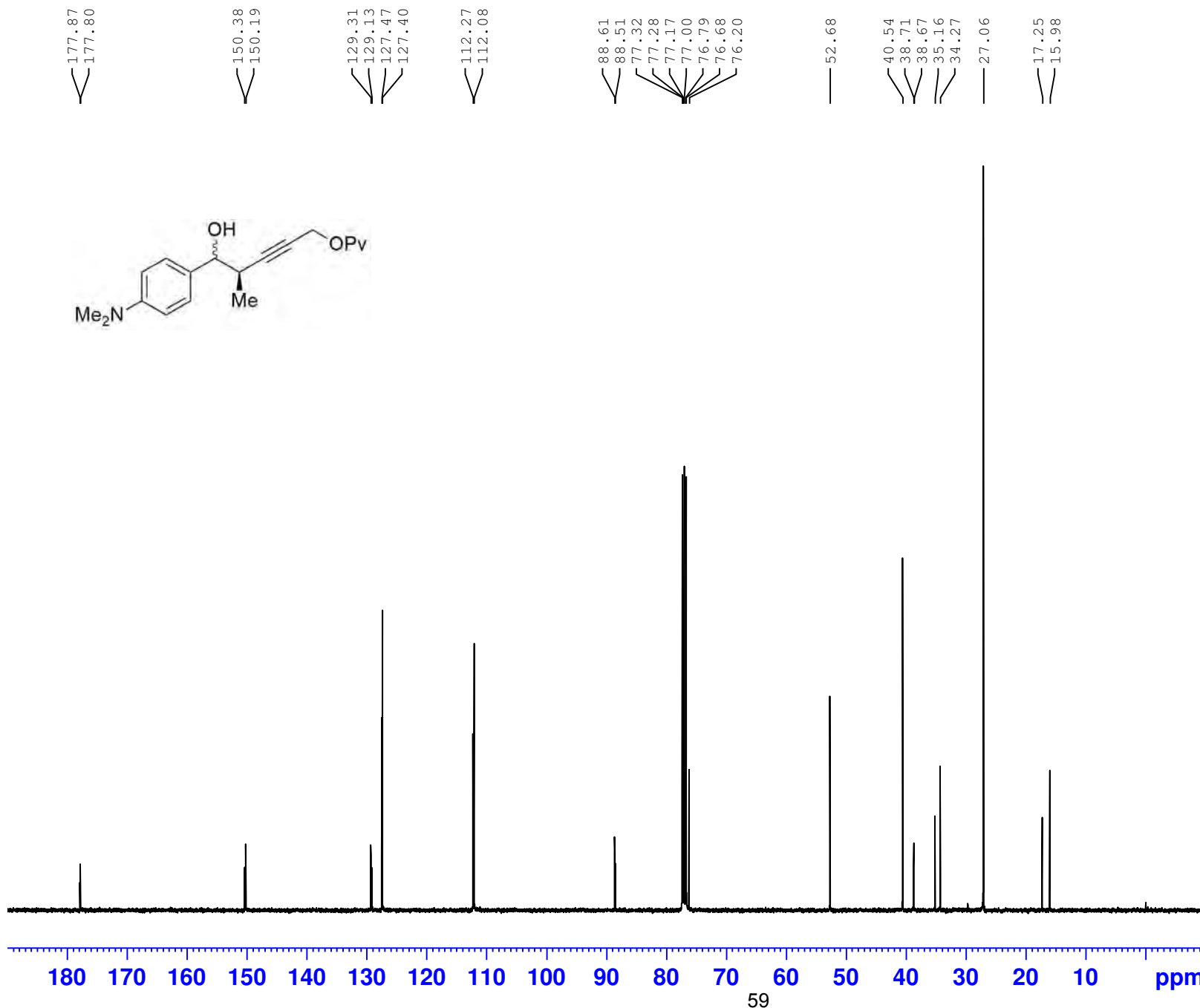
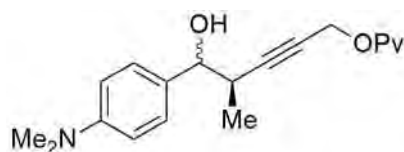
Current Data Parameters
 NAME I-PK-20-04
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171129
 Time 11.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 298.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549404 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





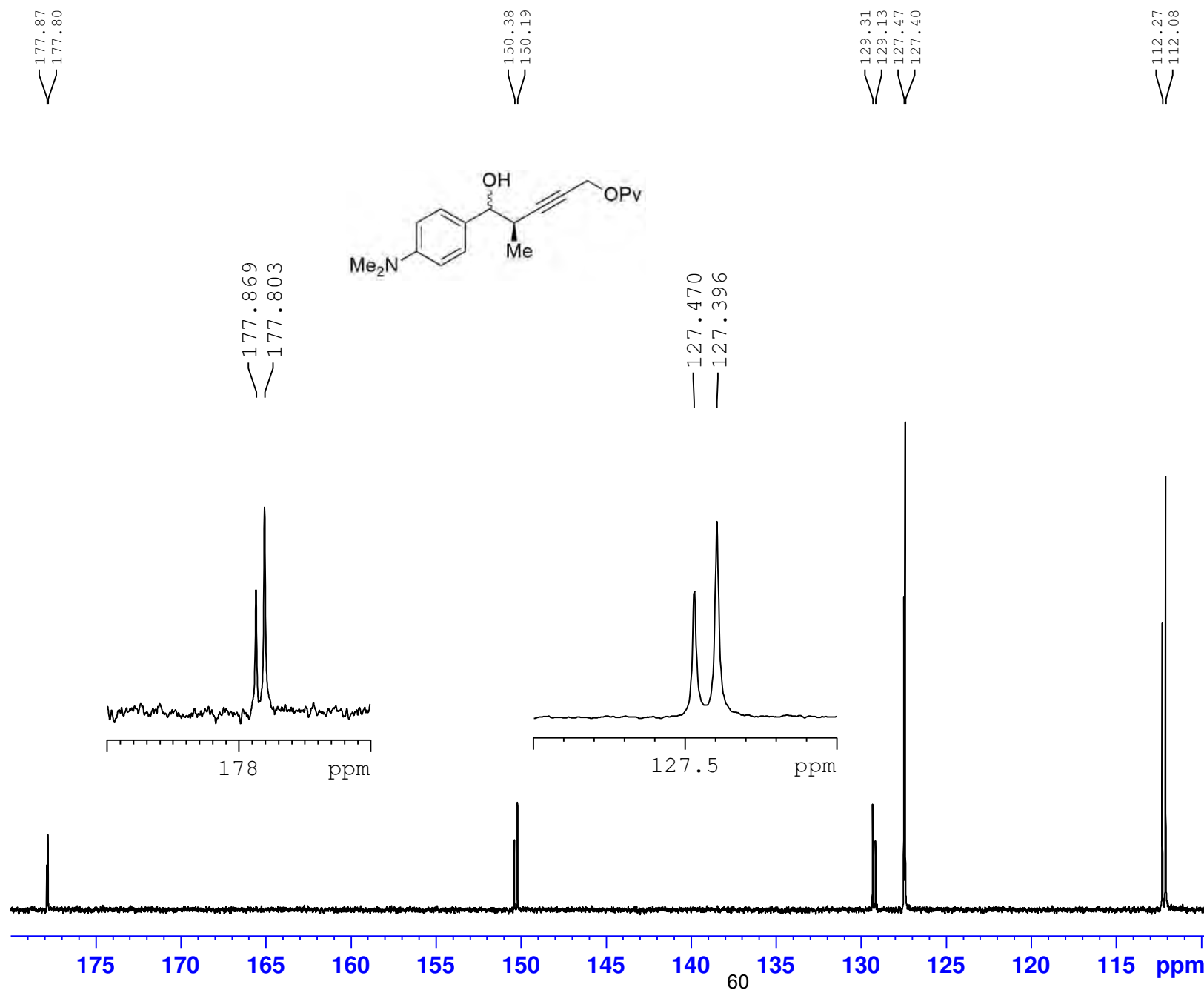
Current Data Parameters
 NAME I-PK-20-04
 EXPNO 11
 PROCNO 1

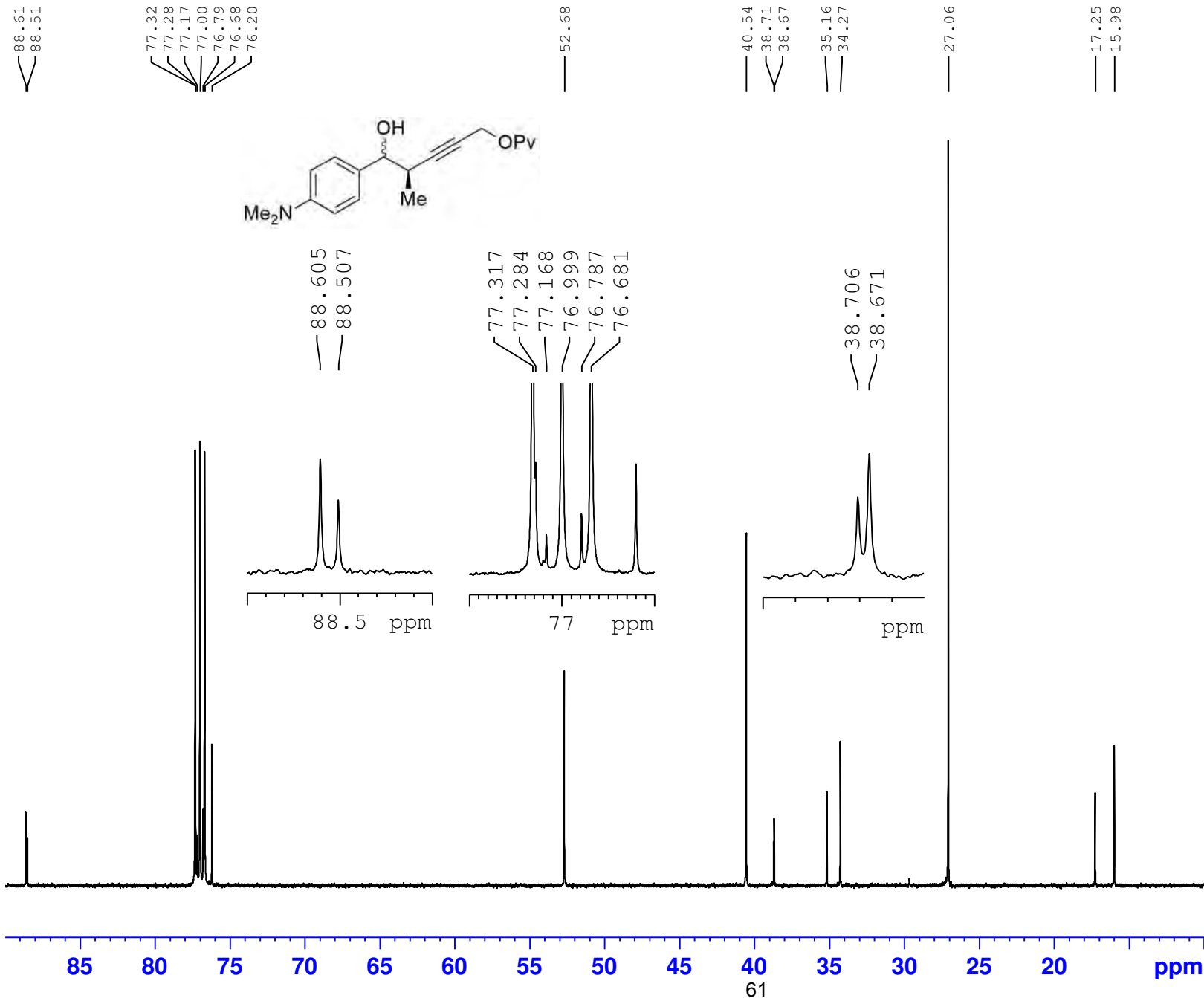
F2 - Acquisition Parameters
 Date_ 20171129
 Time 11.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 298.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549404 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





Current Data Parameters
 NAME I-PK-20-04
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171129
 Time 11.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 298.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549404 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



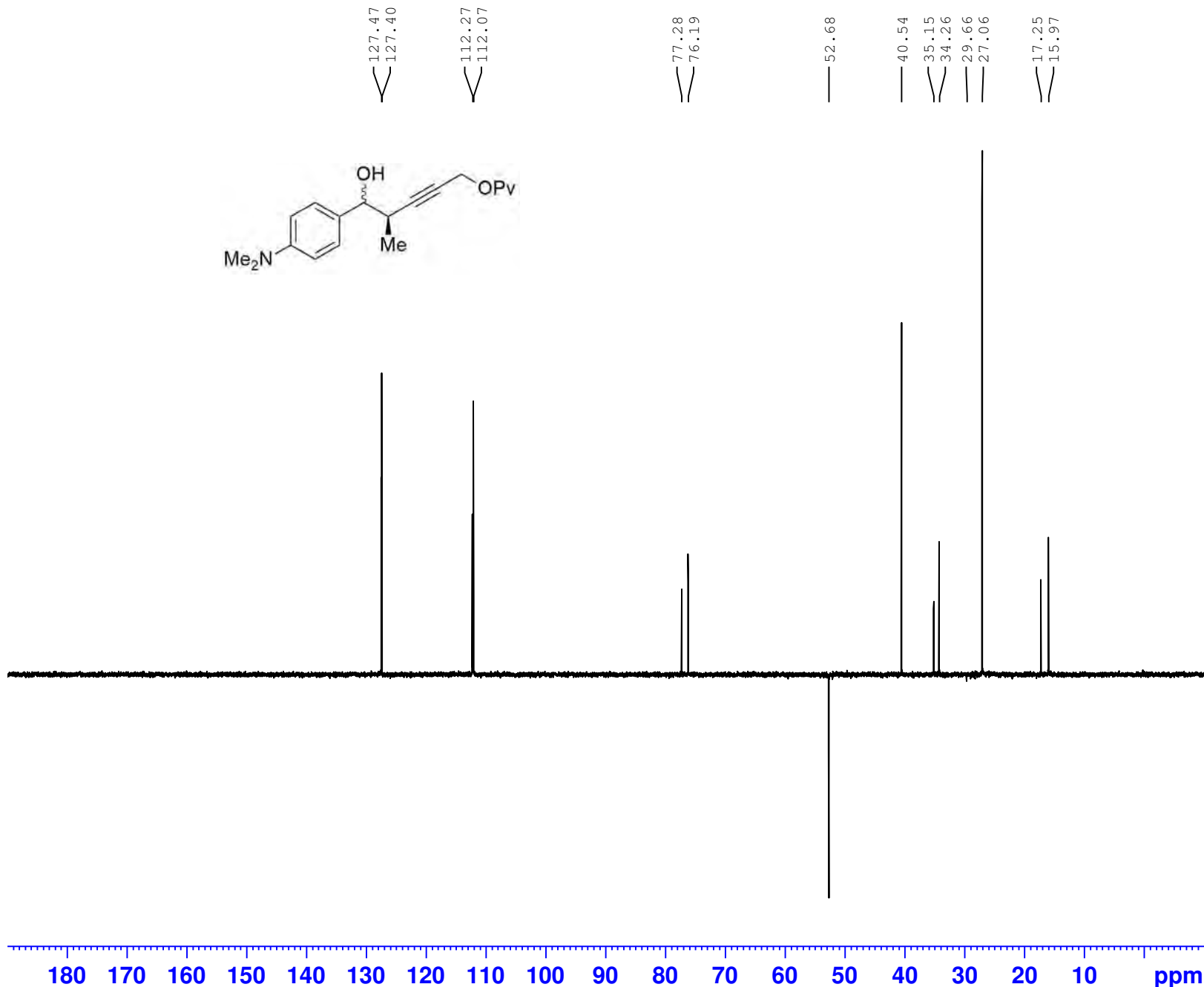
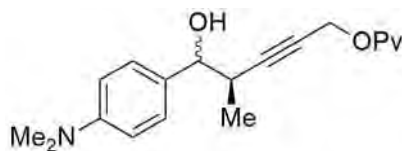
Current Data Parameters
 NAME I-PK-20-04
 EXPNO 12
 PROCNO 1

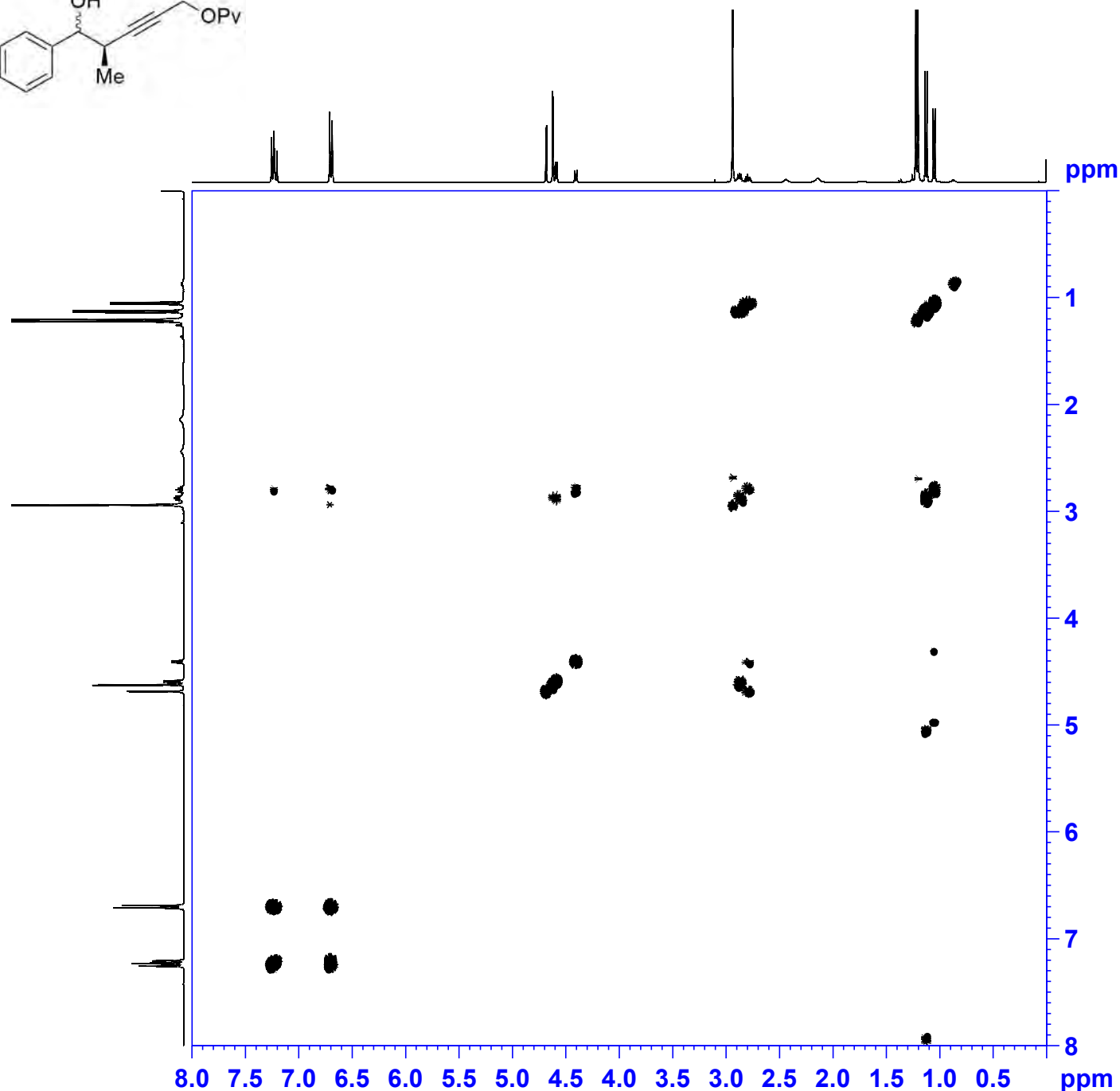
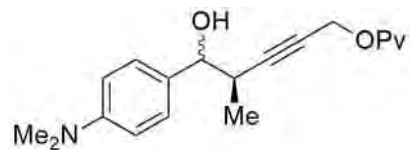
F2 - Acquisition Parameters
 Date_ 20171129
 Time 11.43
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptsp135
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.5 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549404 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





Current Data Parameters
NAME I-PK-20-04
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171129
Time 11.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpmfppqf
TD 2048
SOLVENT CDC13
NS 1
DS 8
SWH 4300.458 Hz
FIDRES 2.099833 Hz
AQ 0.2381141 sec
RG 2050
DW 116.267 usec
DE 6.50 usec
TE 297.1 K
D0 0.00000300 sec
D1 0.91111588 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00023260 sec

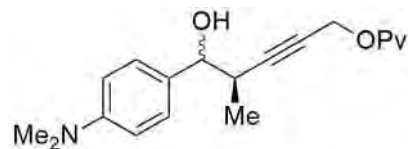
===== CHANNEL f1 =====
SFO1 399.9010913 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 399.9011 MHz
FIDRES 33.587704 Hz
SW 10.751 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.9000100 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.9000100 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0



Current Data Parameters
 NAME 1-PK-20-04
 EXFNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171129
 Time 11.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgppsp.3
 TD 1024
 SOLVENT CDCl3
 DS 2
 NS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 297.2 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 0.00001910 sec

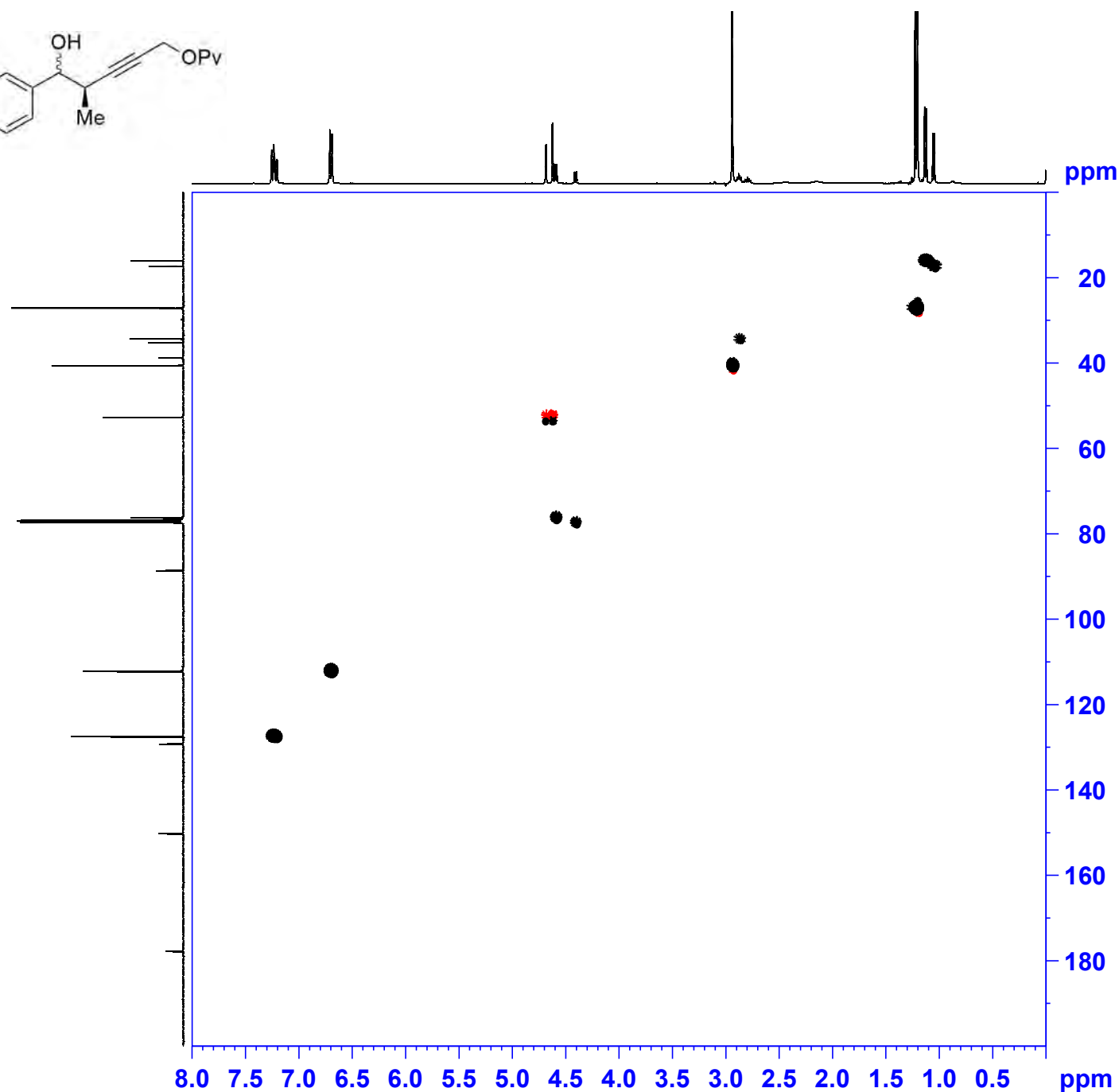
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 1H
 P1 14.88 usec
 P2 29.76 usec
 P28 0 usec
 PLW1 7.59999990 W

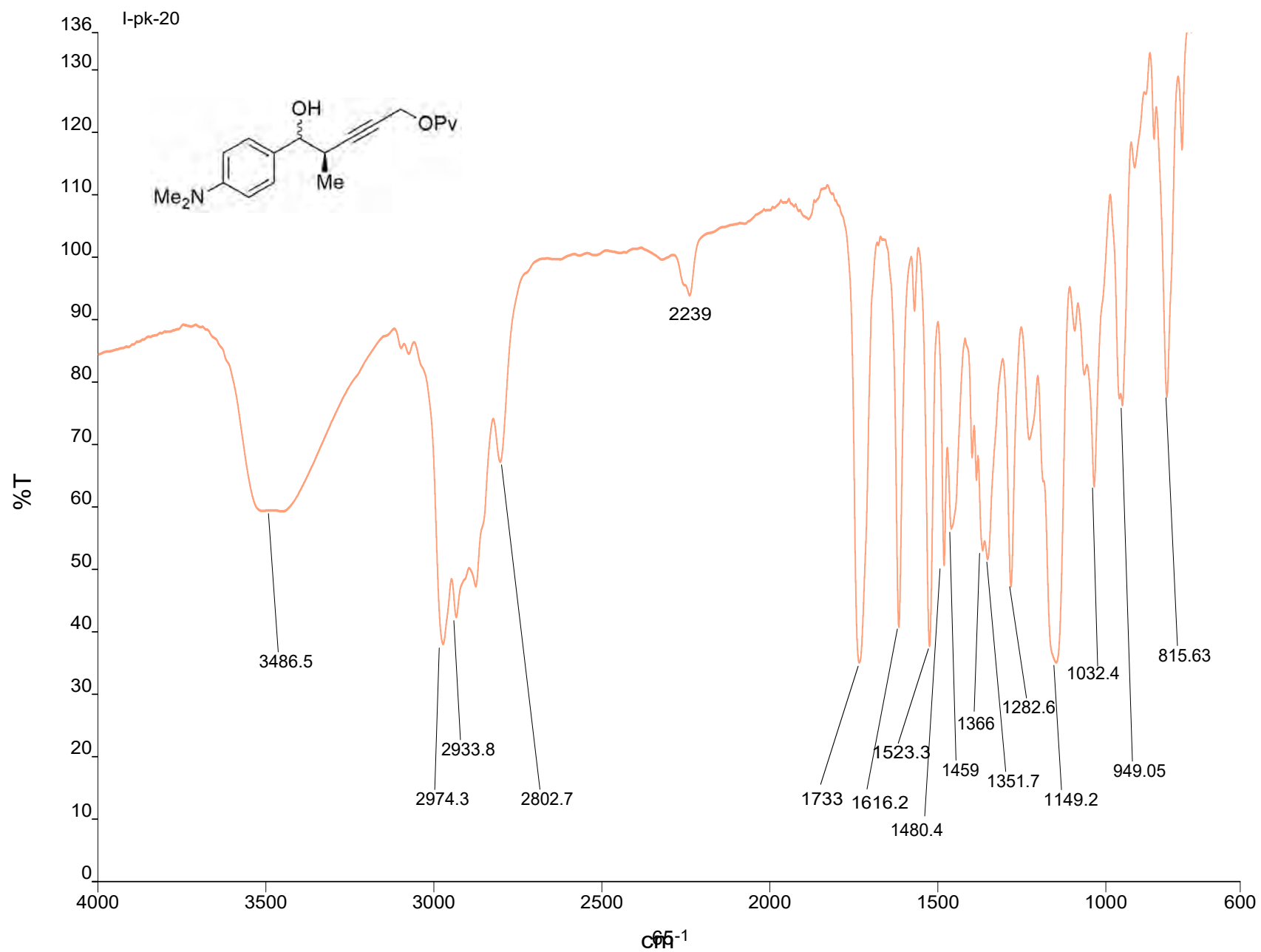
===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 13C
 CPDPRG[2] garp4
 P3 10.00 usec
 P14 500.00 usec
 F31 1900.00 usec
 PCPD2 80.00 usec
 PLW0 0 W
 PLW2 44.46300125 W
 PLW12 0.69472998 W
 SPNAM[3] Crp60,0.5,20.1
 SFOAL3 0 Hz 0.500
 SPW3 6.79339981 W
 SPNAM[18] Crp60_xfilt.2
 SFOAL18 0 Hz 0.500
 SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FnmODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 399.9000124 MHz





Mass Spectrometry Result Sheet

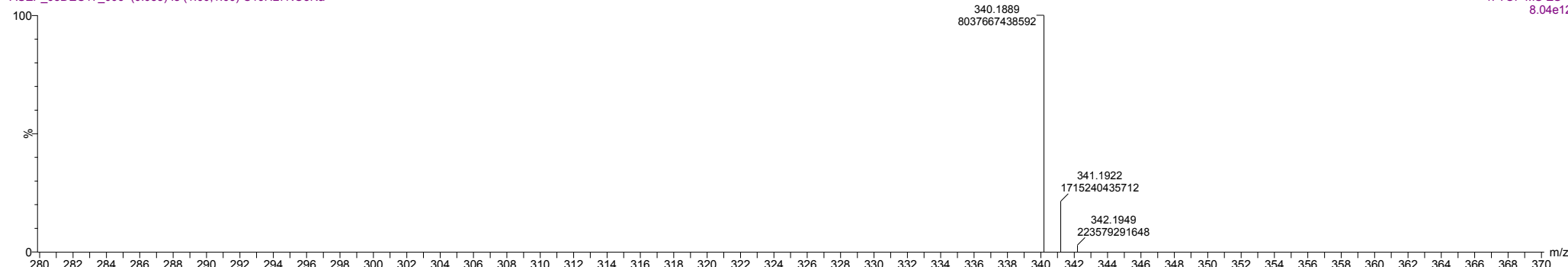
Waters Xevo G2-XS QToF Mass Spectrometer

28-11-2017

I-PK-20

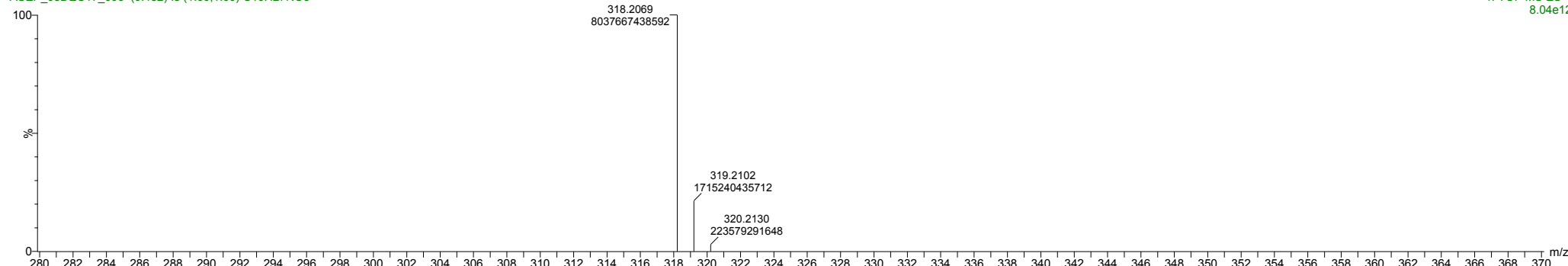
ASEP_05DEC17_006 (0.053) Is (1.00,1.00) C₁₉H₂₇NO₃Na

1: TOF MS ES+
8.04e12



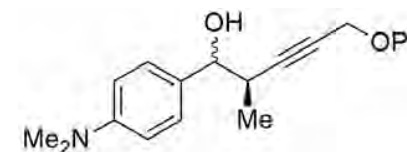
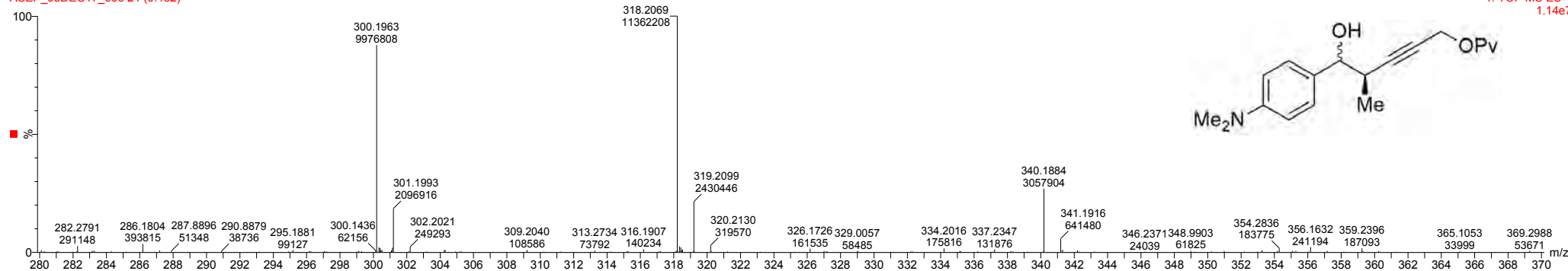
ASEP_05DEC17_006 (0.482) Is (1.00,1.00) C₁₉H₂₇NO₃

1: TOF MS ES+
8.04e12



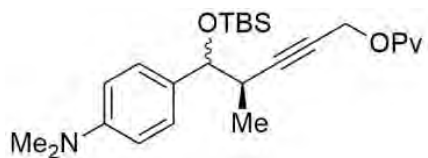
ASEP_05DEC17_006 24 (0.482)

1: TOF MS ES+
1.14e7

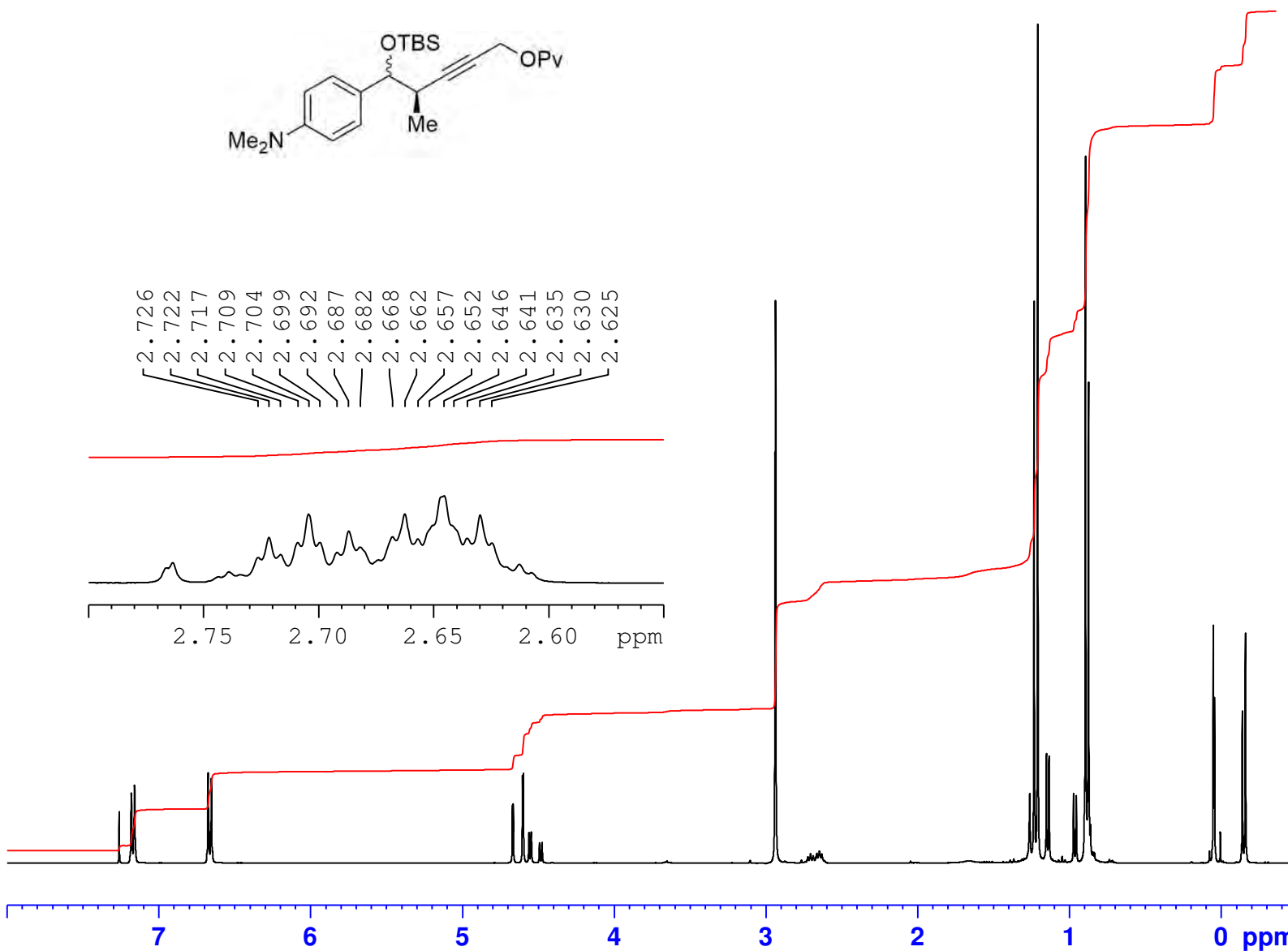
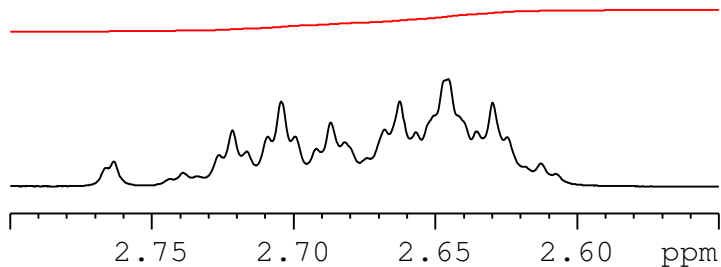


7.260
7.180
7.159
6.674
6.652

4.668
4.663
4.602
4.597
4.559
4.544
4.490
4.473
2.937
2.934
2.726
2.722
2.717
2.709
2.704
2.699
2.692
2.687
2.682
2.668
2.662
2.657
2.652
2.646
2.641
2.635
2.630
2.625
2.625
1.259
1.231
1.207
1.150
1.132
0.971
0.953
0.892



2.726
2.722
2.717
2.709
2.704
2.699
2.692
2.687
2.682
2.668
2.662
2.657
2.652
2.646
2.641
2.635
2.630
2.625



Current Data Parameters
NAME I-PK-21-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171205
Time 3.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 40.3
DW 41.600 usec
DE 9.85 usec
TE 297.7 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

— 7.260
— 7.180
— 7.159

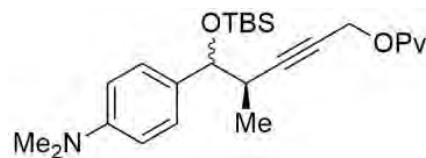
— 6.674
— 6.652

— 4.668
— 4.663

— 4.602
— 4.597

— 4.559
— 4.544

— 4.490
— 4.473

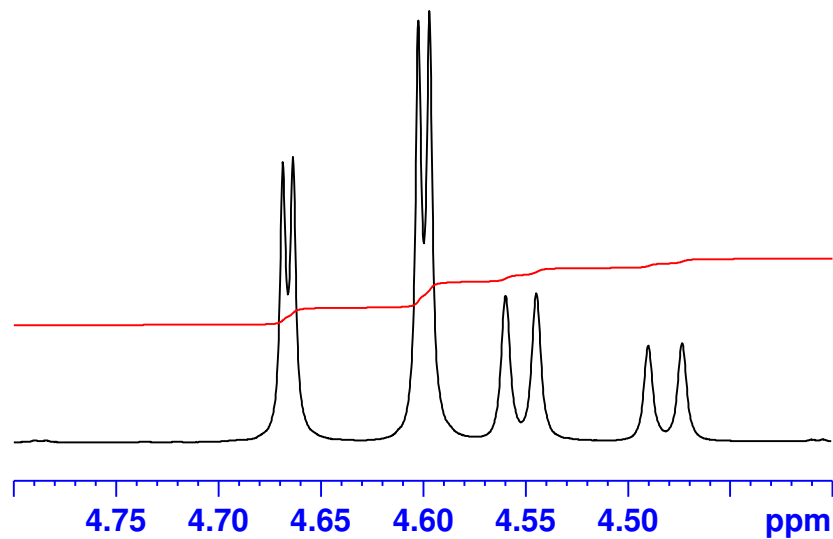
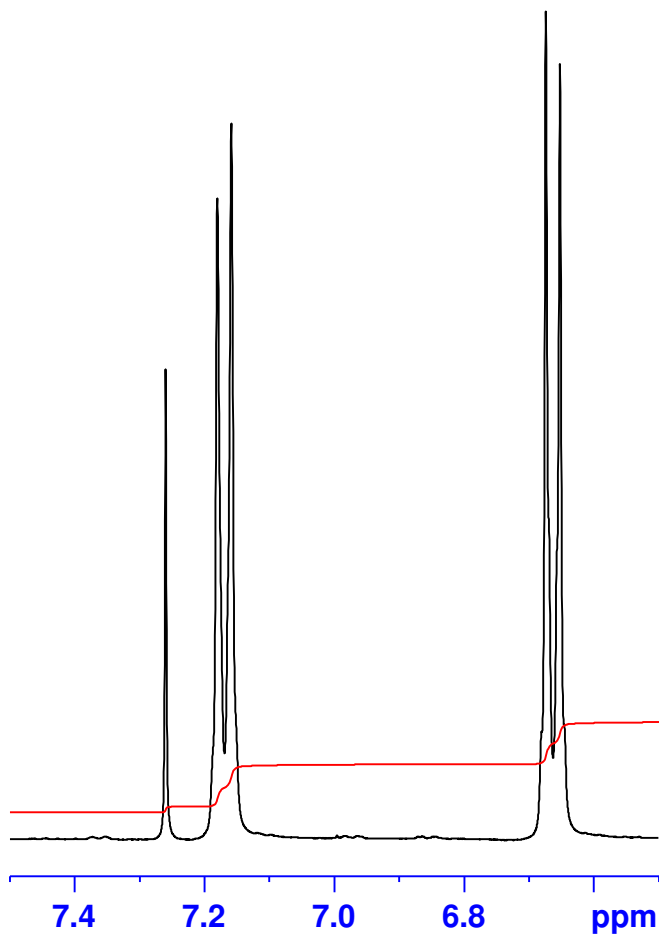


Current Data Parameters
NAME I-PK-21-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171205
Time 3.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 40.3
DW 41.600 usec
DE 9.85 usec
TE 297.7 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



1.259
1.231
1.207
1.150
1.132

0.971
0.953
0.892
0.879
0.872

0.050
0.042

-0.141
-0.162

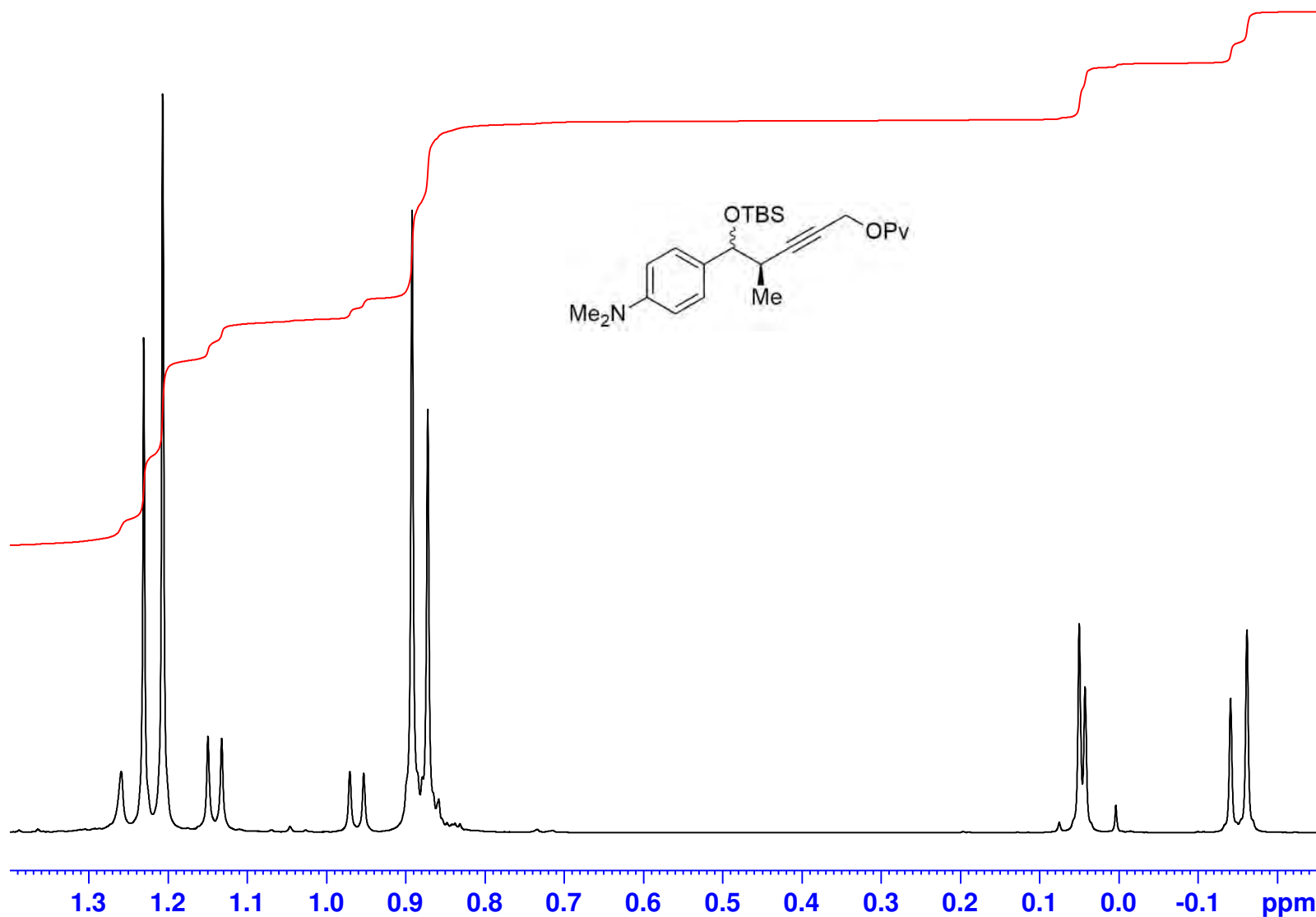
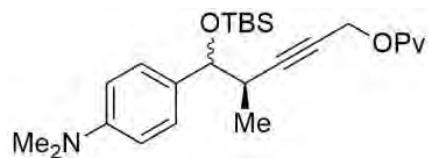


Current Data Parameters
NAME I-PK-21-03
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171205
Time 3.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 40.3
DW 41.600 usec
DE 9.85 usec
TE 297.7 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





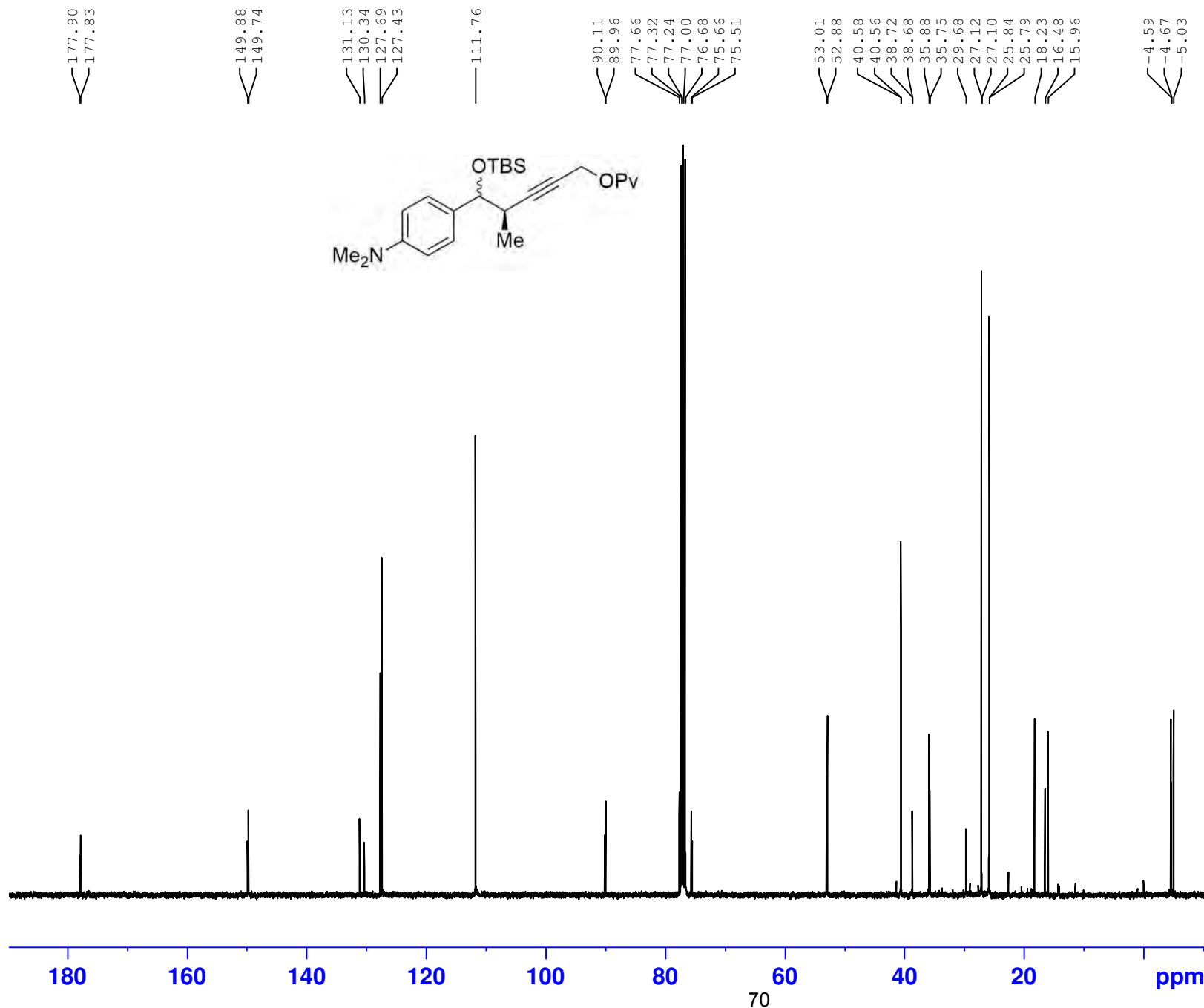
Current Data Parameters
 NAME I-PK-21-03
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171205
 Time 4.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 299.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549379 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

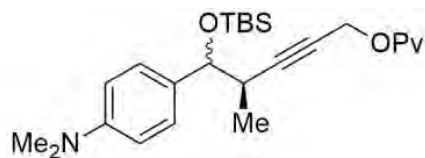


177.90
177.83

149.88
149.74

131.13
130.34

127.69
127.43



177.902
177.829

149.883
149.744



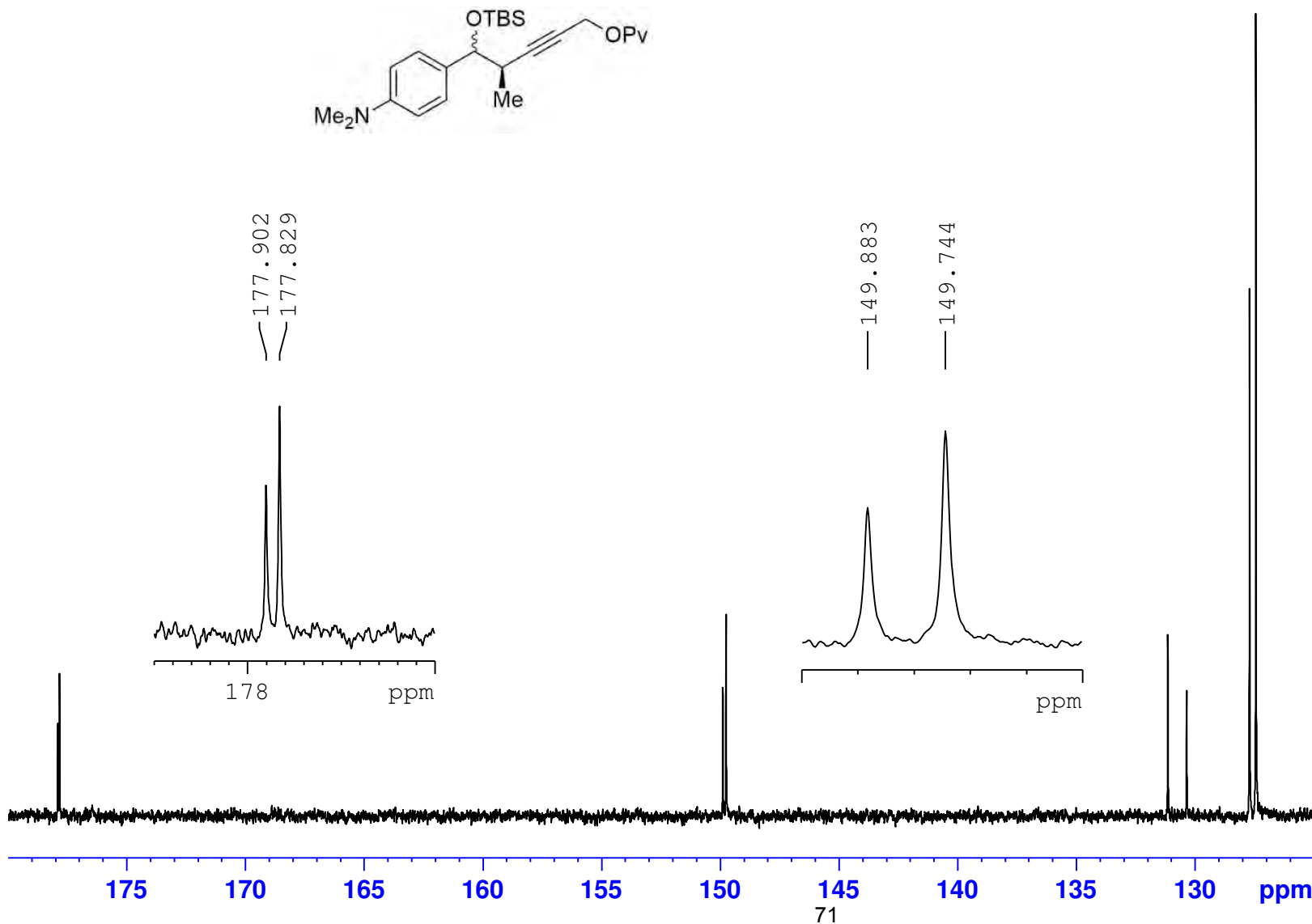
Current Data Parameters
NAME I-PK-21-03
EXPNO 11
PROCNO 1

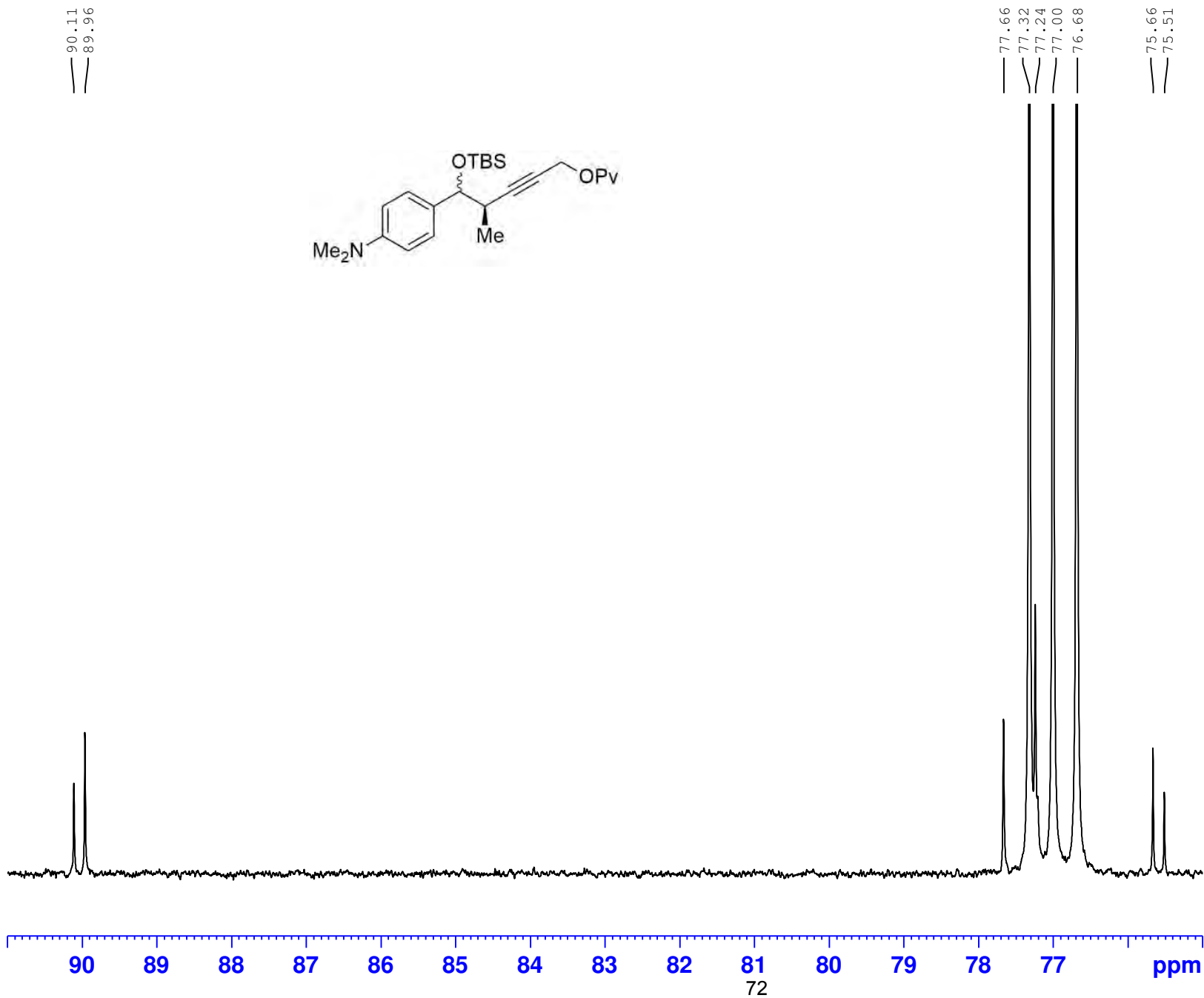
F2 - Acquisition Parameters
Date_ 20171205
Time 4.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 299.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549379 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME I-PK-21-03
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171205
 Time 4.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 299.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549379 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



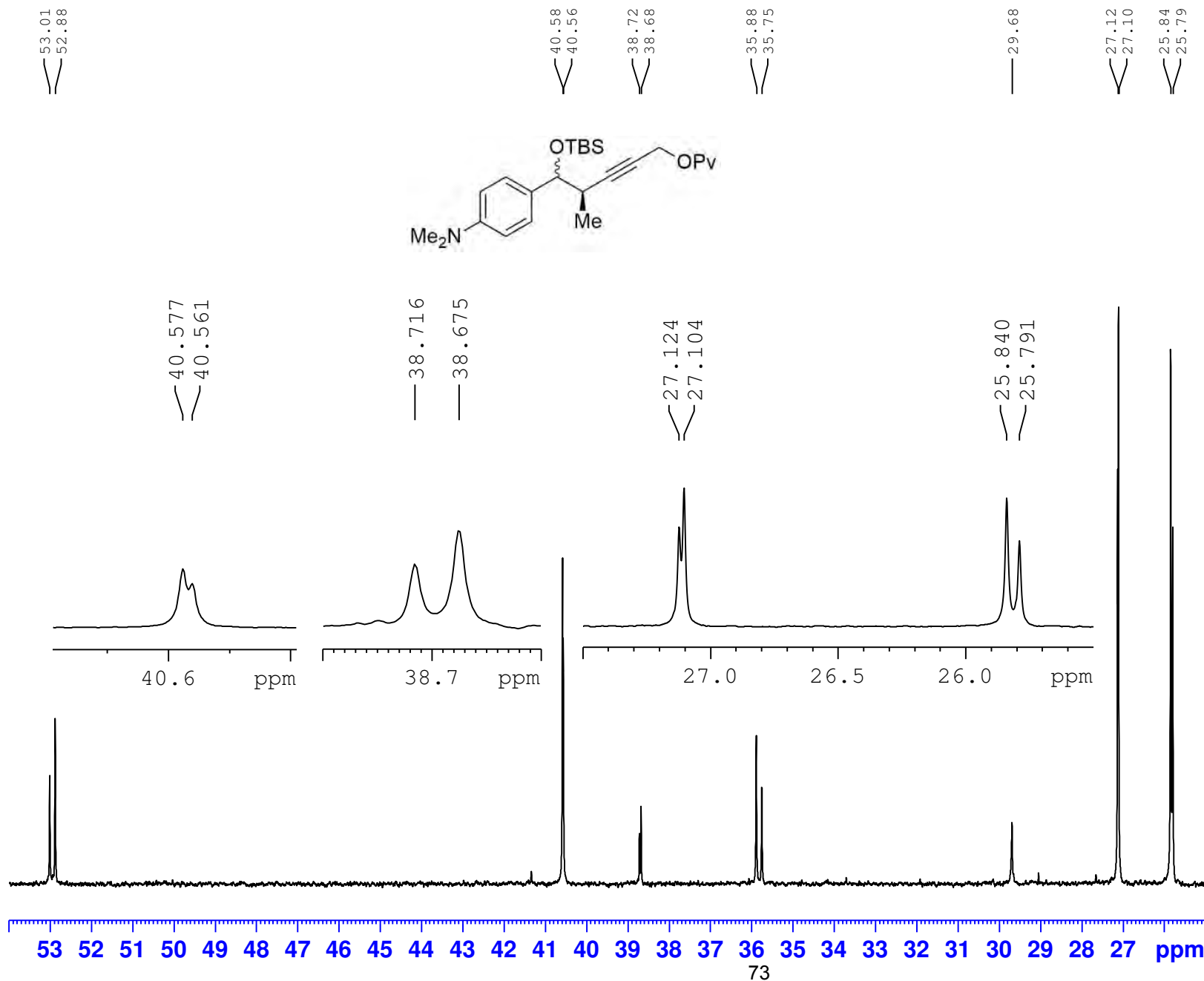
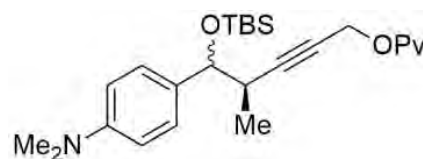
Current Data Parameters
 NAME I-PK-21-03
 EXPNO 11
 PROCNO 1

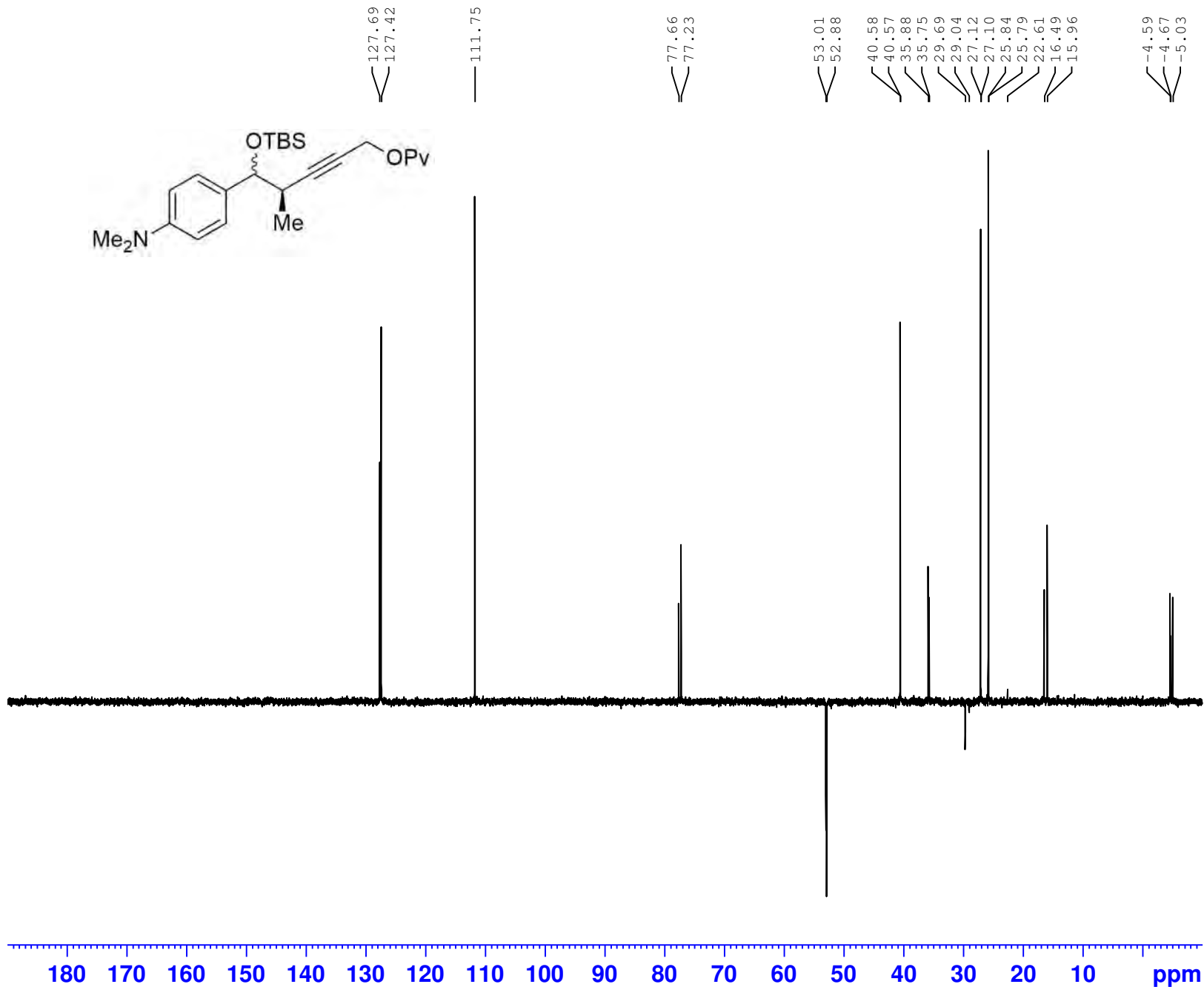
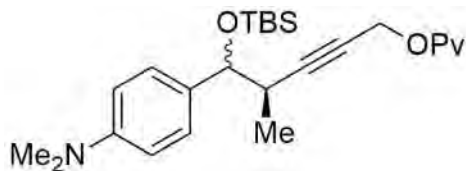
F2 - Acquisition Parameters
 Date_ 20171205
 Time 4.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 299.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549379 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





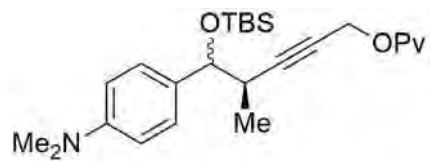
Current Data Parameters
 NAME I-PK-21-03
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171205
 Time 4.48
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.4 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549376 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-21-03
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20171205
 Time_ 4.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 4472.272 Hz
 FIDRES 2.183727 Hz
 AQ 0.2289664 sec
 RG 2050
 DW 111.800 usec
 DE 6.50 usec
 TE 298.1 K
 D0 0.00000300 sec
 D1 0.92135590 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00022360 sec

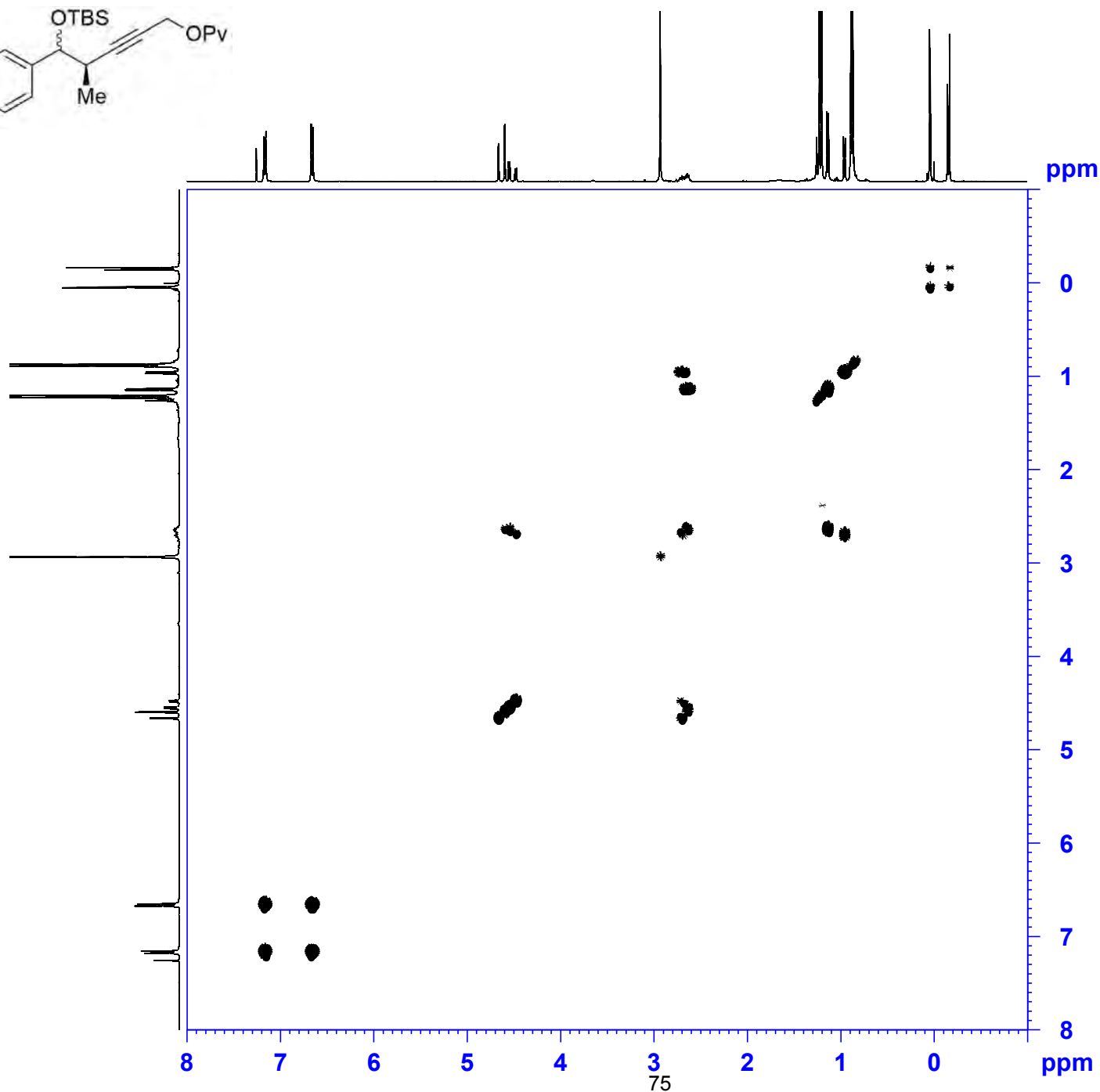
===== CHANNEL f1 =====
 SFO1 399.9009709 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

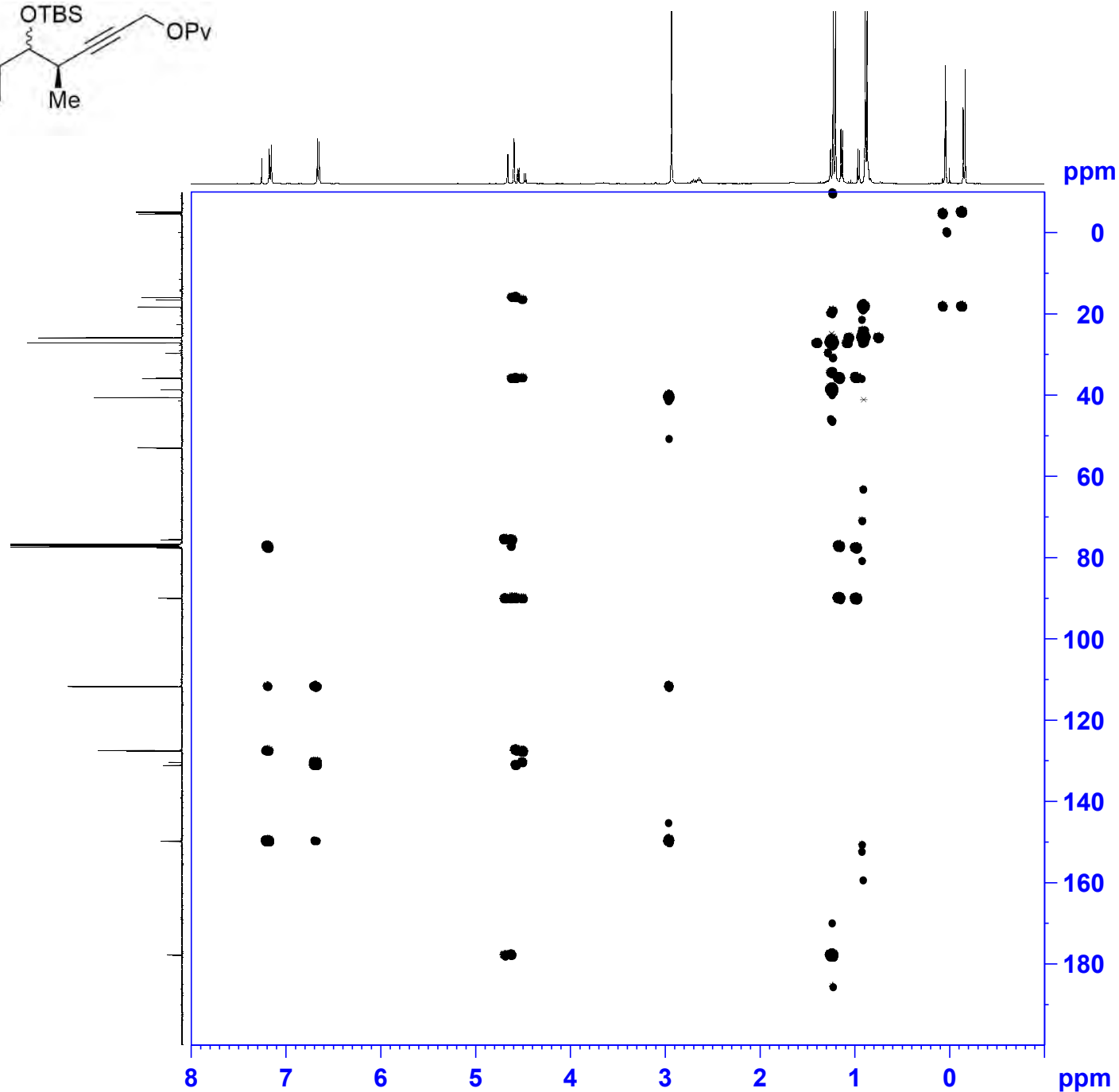
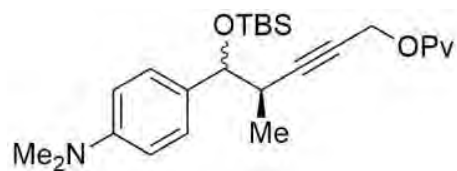
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.901 MHz
 FIDRES 34.939625 Hz
 SW 11.183 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000107 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000122 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
NAME I-PK-21-03
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171205
Time 4.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hmbcetgpl3nd
TD 4096
SOLVENT CDCl3
NS 4
DS 16
SWH 5208.333 Hz
FIDRES 1.271566 Hz
AQ 0.3932160 sec
RG 2050
DW 96.000 usec
DE 6.50 usec
TE 298.0 K
CNST6 120.0000000
CNST7 175.0000000
CNST13 8.0000000
CNST30 0.5981122
D0 0.00000300 sec
D1 1.50000000 sec
D6 0.06250000 sec
D16 0.00020000 sec
IN0 0.00002070 sec

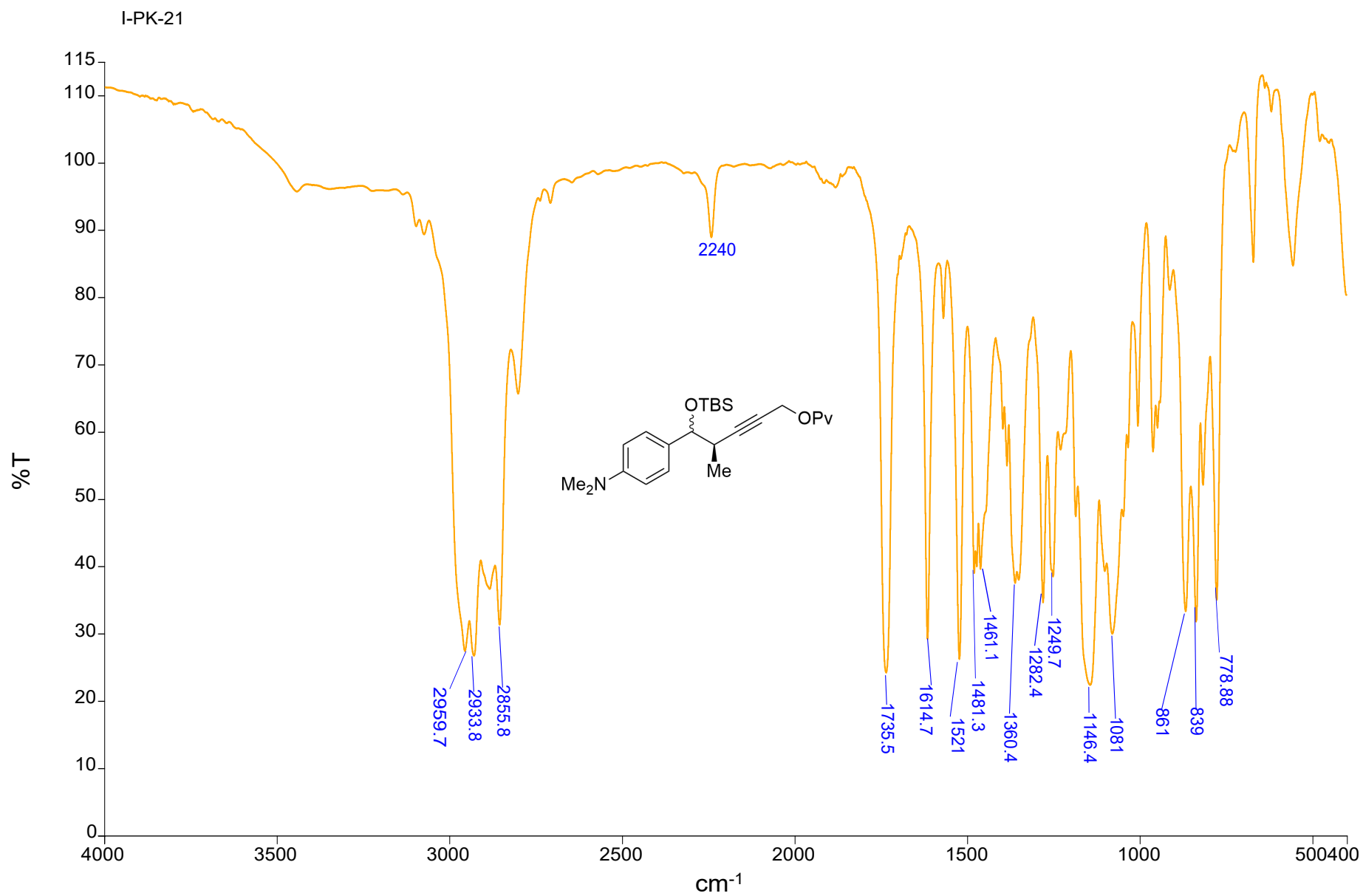
===== CHANNEL f1 =====
SFO1 399.9019995 MHz
NUC1 ^1H
P1 14.88 usec
P2 29.76 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5659947 MHz
NUC2 ^{13}C
P3 10.00 usec
P24 2000.00 usec
PLW2 44.46300125 W
SPNAM[7] Crp60comp.4
SPOAL7 0.500
SPOFFS7 0 Hz
SPW7 6.79339981 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[3] SMSQ10.100
GPNAM[4] SMSQ10.100
GPNAM[5] SMSQ10.100
GPNAM[6] SMSQ10.100
GPZ1 80.00 %
GPZ3 14.00 %
GPZ4 -8.00 %
GPZ5 -4.00 %
GPZ6 -2.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 512
SFO1 100.566 MHz
FIDRES 94.353867 Hz
SW 240.186 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 4096
SF 399.9000000 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

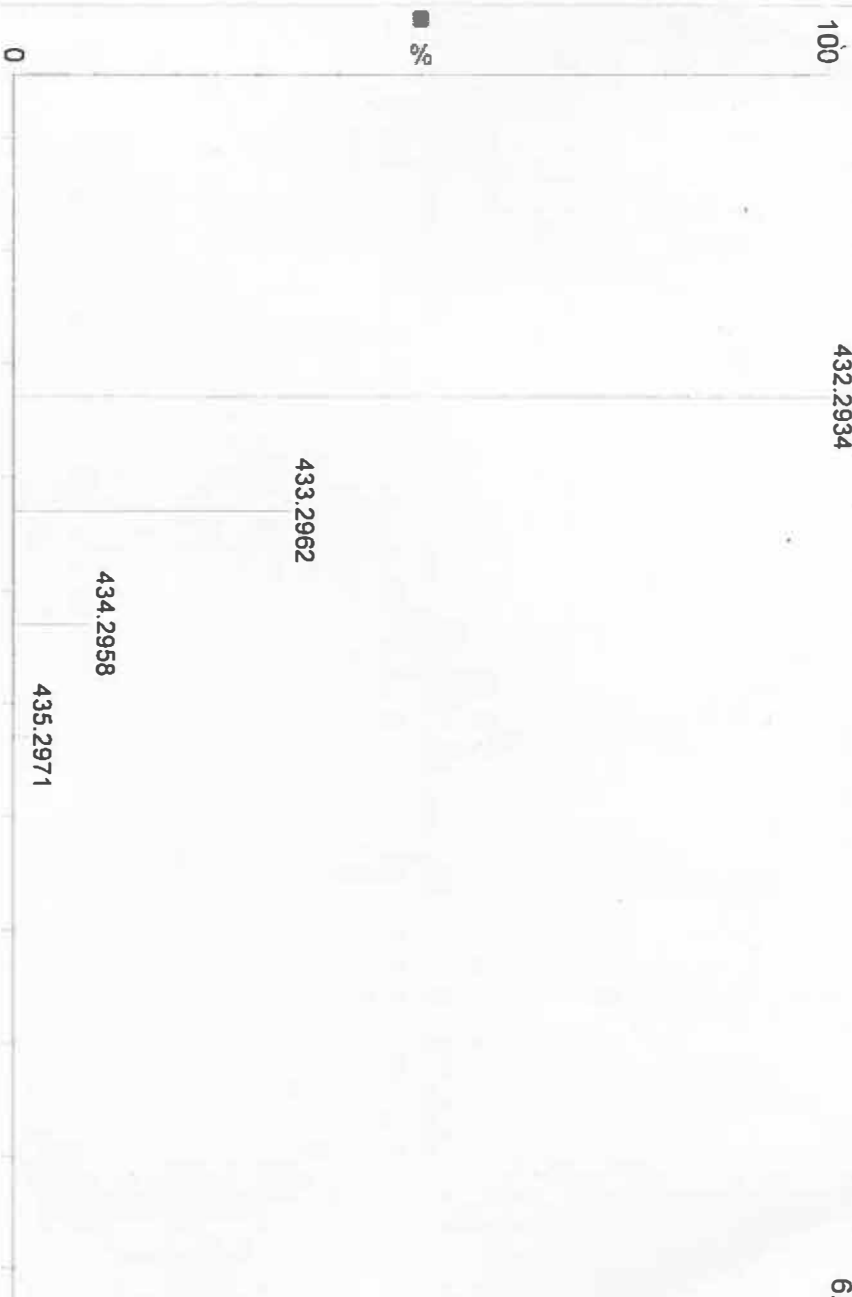


I-PK-21

5-12-2017

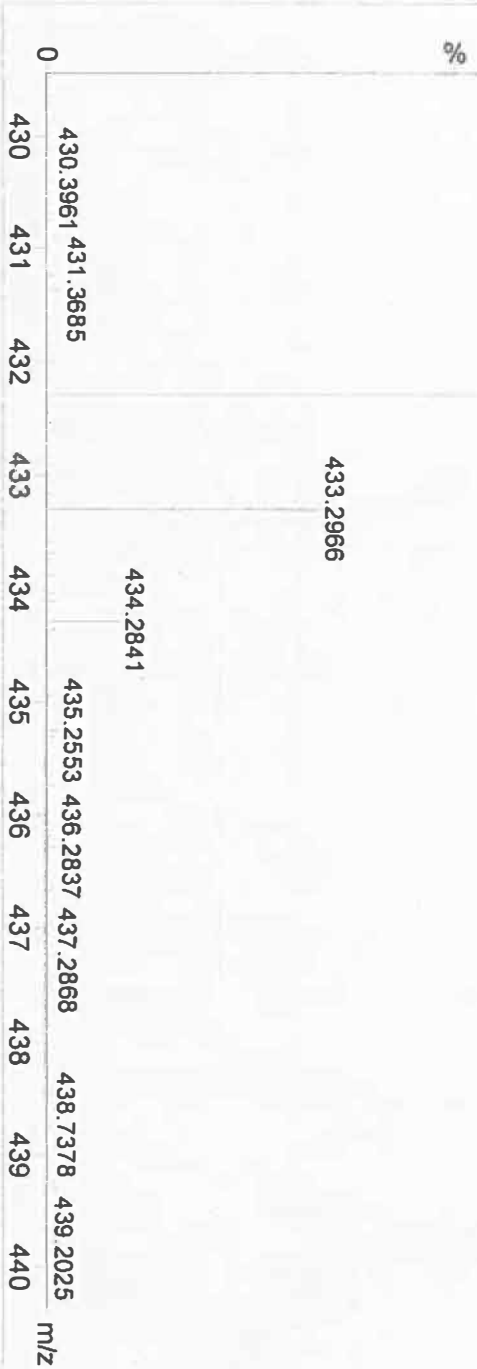
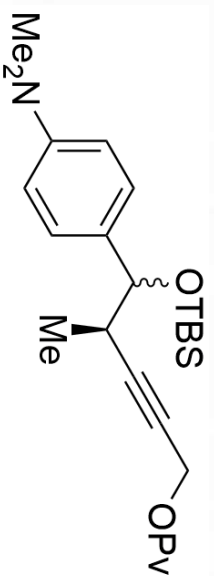
asep__15_NOV_2017_106 (0.070) Is (1.00,1.00) C25H42SiNO3
432.2934

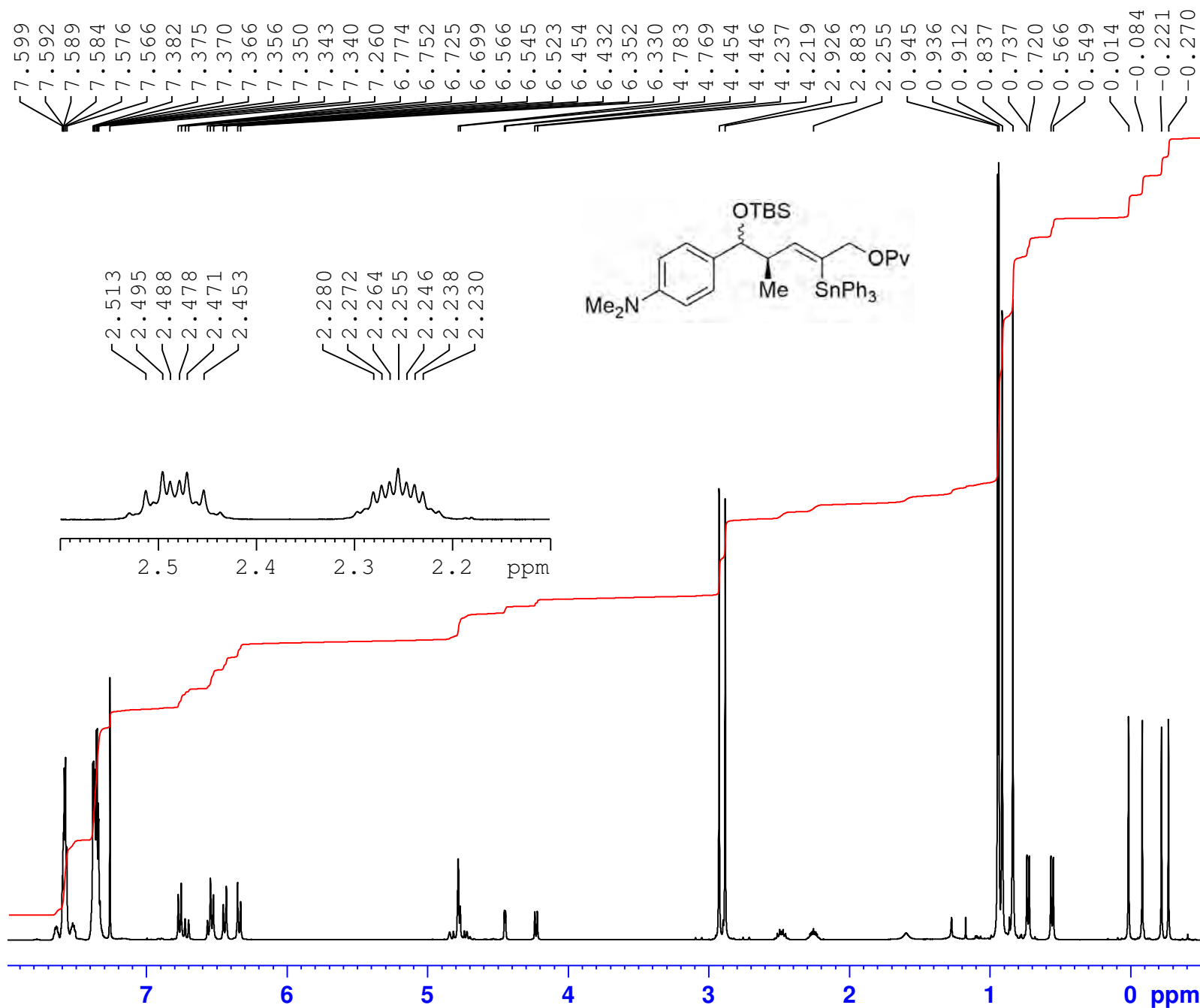
1: TOF MS ES+
6.88e12



asep__15_NOV_2017_106 9 (0.429) Cm (9:10)
432.2920

1: TOF MS ES+
652





Current Data Parameters
 NAME I-PK-48
 EXPNO 10
 PROCNO 1

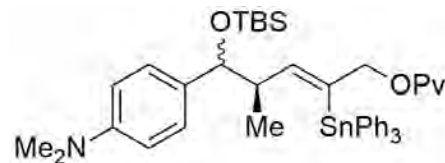
F2 - Acquisition Parameters
 Date_ 20180224
 Time 7.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 45.2
 DW 41.600 usec
 DE 9.85 usec
 TE 296.4 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

7.659
7.650
7.642
7.636
7.626
7.599
7.592
7.589
7.584
7.576
7.566
7.539
7.531
7.525
7.516
7.506

7.382
7.375
7.370
7.366
7.356
7.350
7.343
7.340

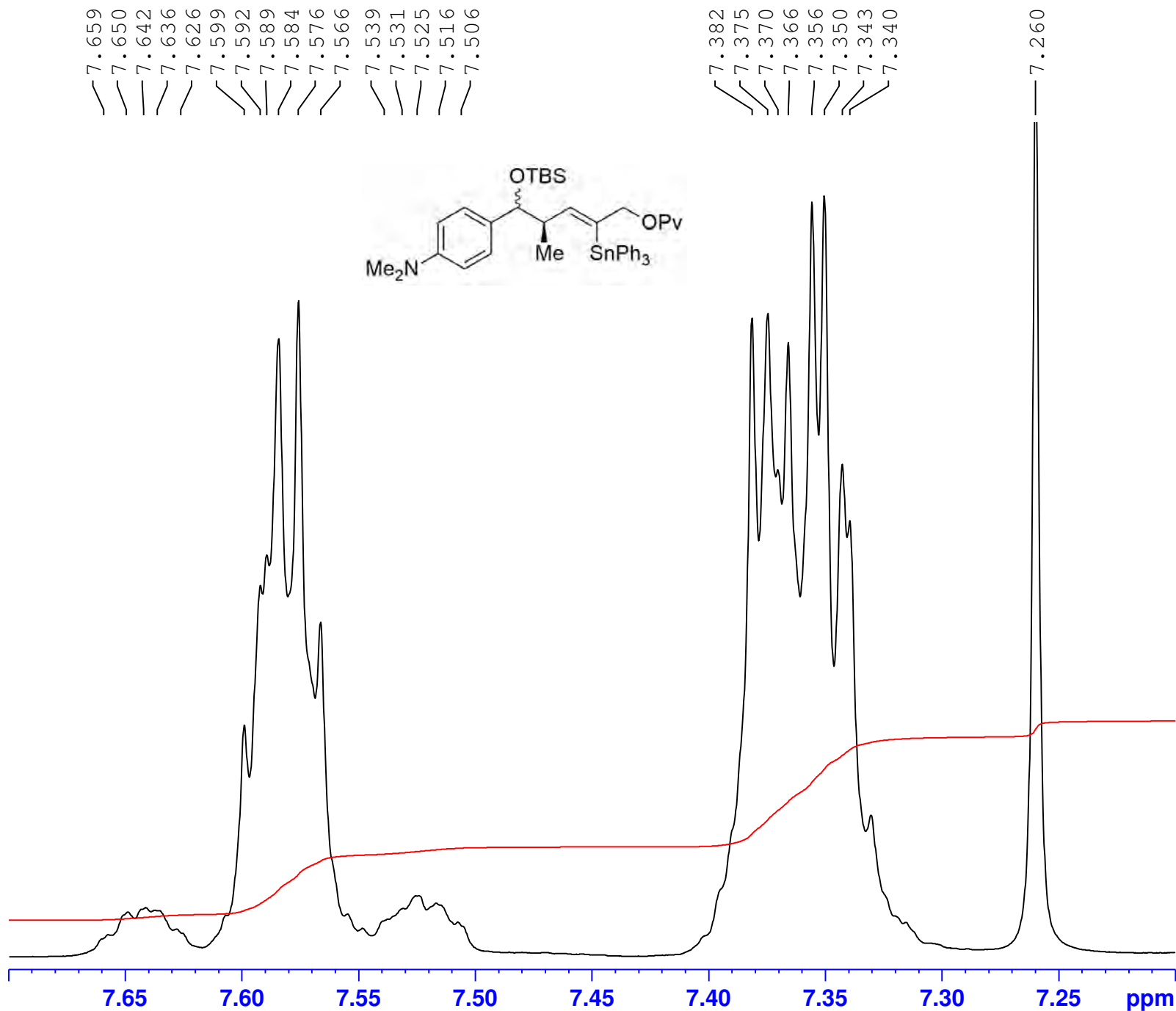


Current Data Parameters
NAME I-PK-48
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180224
Time 7.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 45.2
DW 41.600 usec
DE 9.85 usec
TE 296.4 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



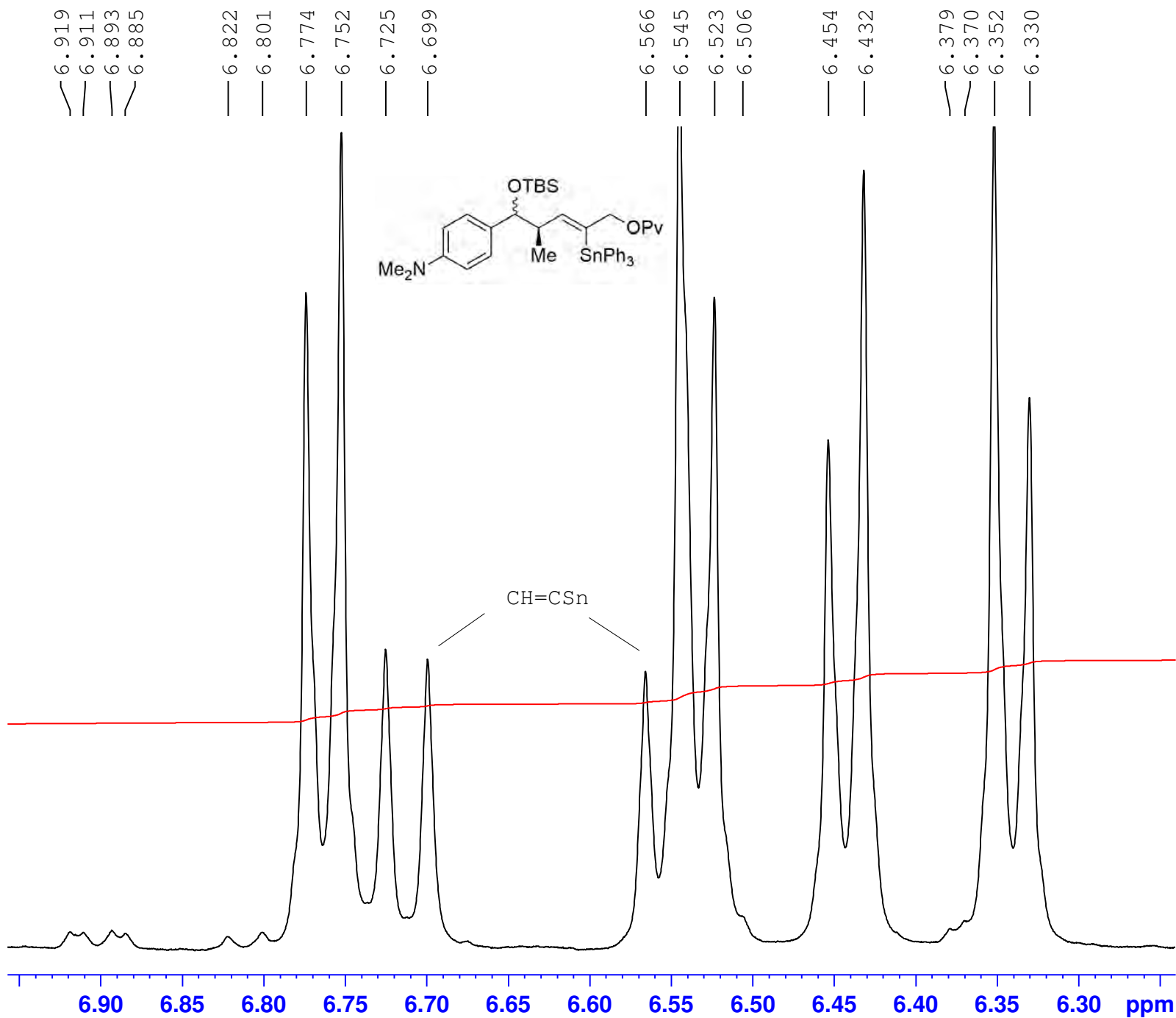


Current Data Parameters
 NAME I-PK-48
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 7.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 45.2
 DW 41.600 usec
 DE 9.85 usec
 TE 296.4 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



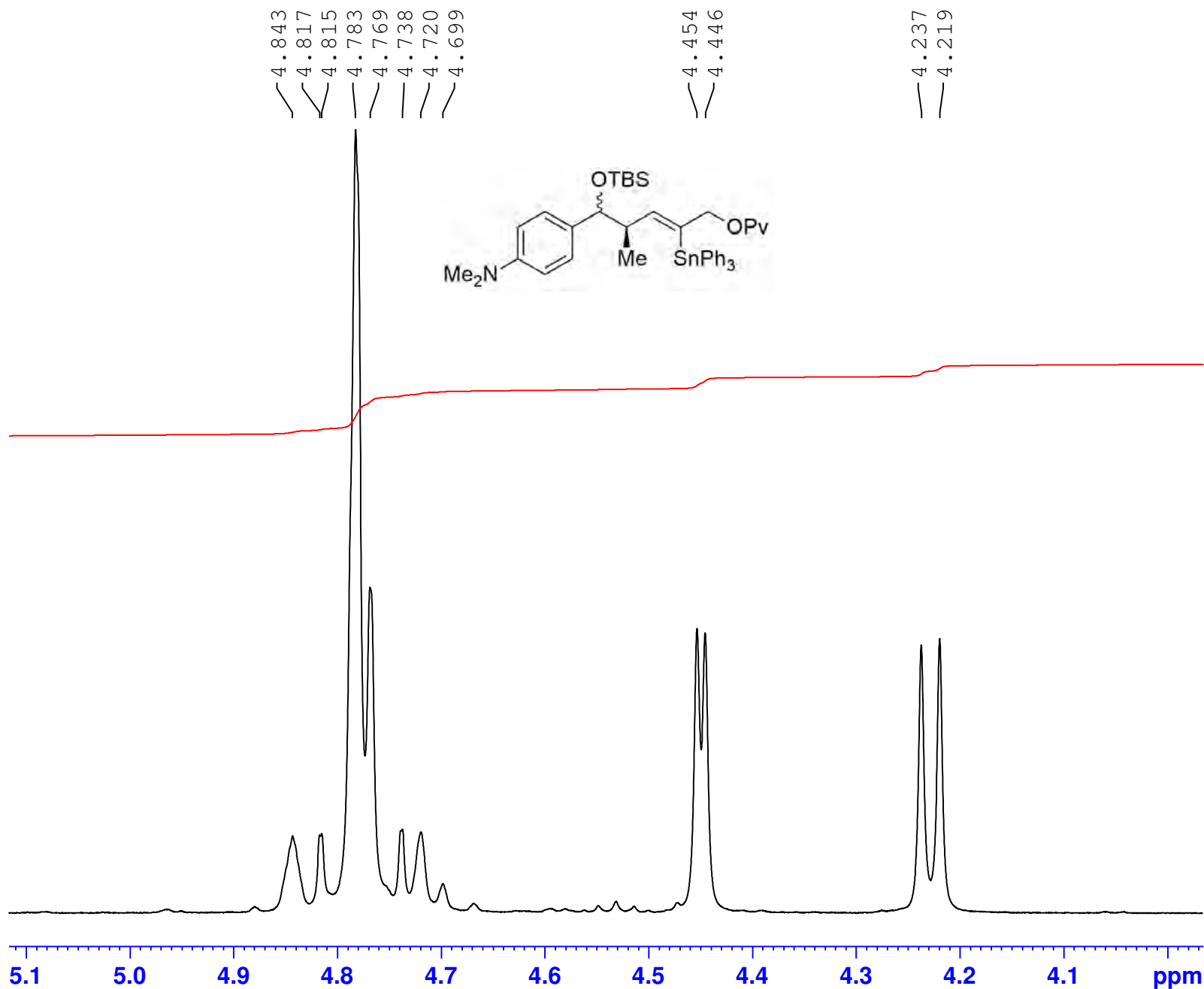
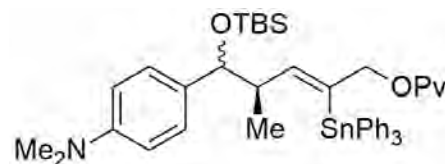


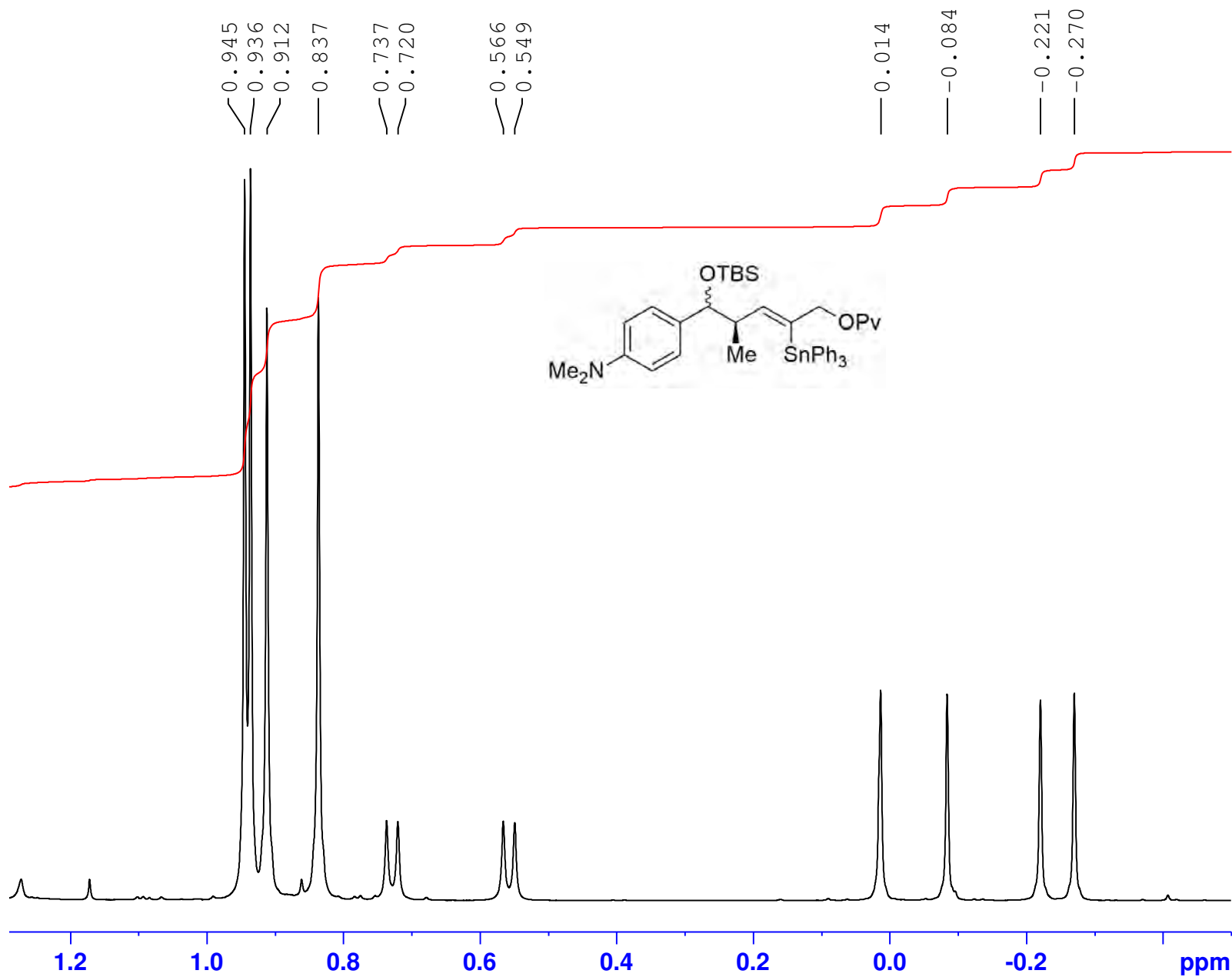
Current Data Parameters
NAME I-PK-48
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180224
Time 7.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 45.2
DW 41.600 usec
DE 9.85 usec
TE 296.4 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME I-PK-48
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 7.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 45.2
 DW 41.600 usec
 DE 9.85 usec
 TE 296.4 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



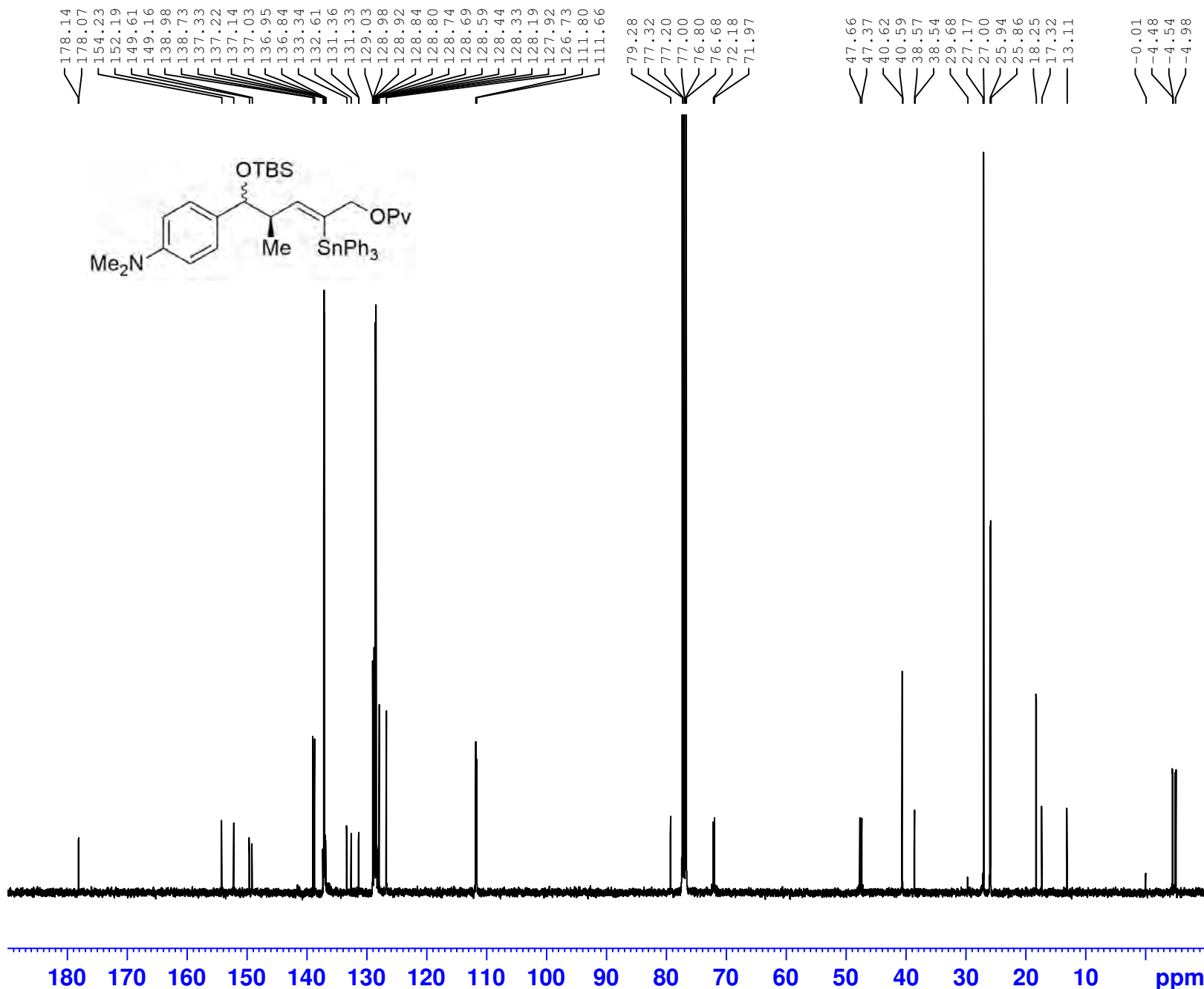
Current Data Parameters
 NAME I-PK-48
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





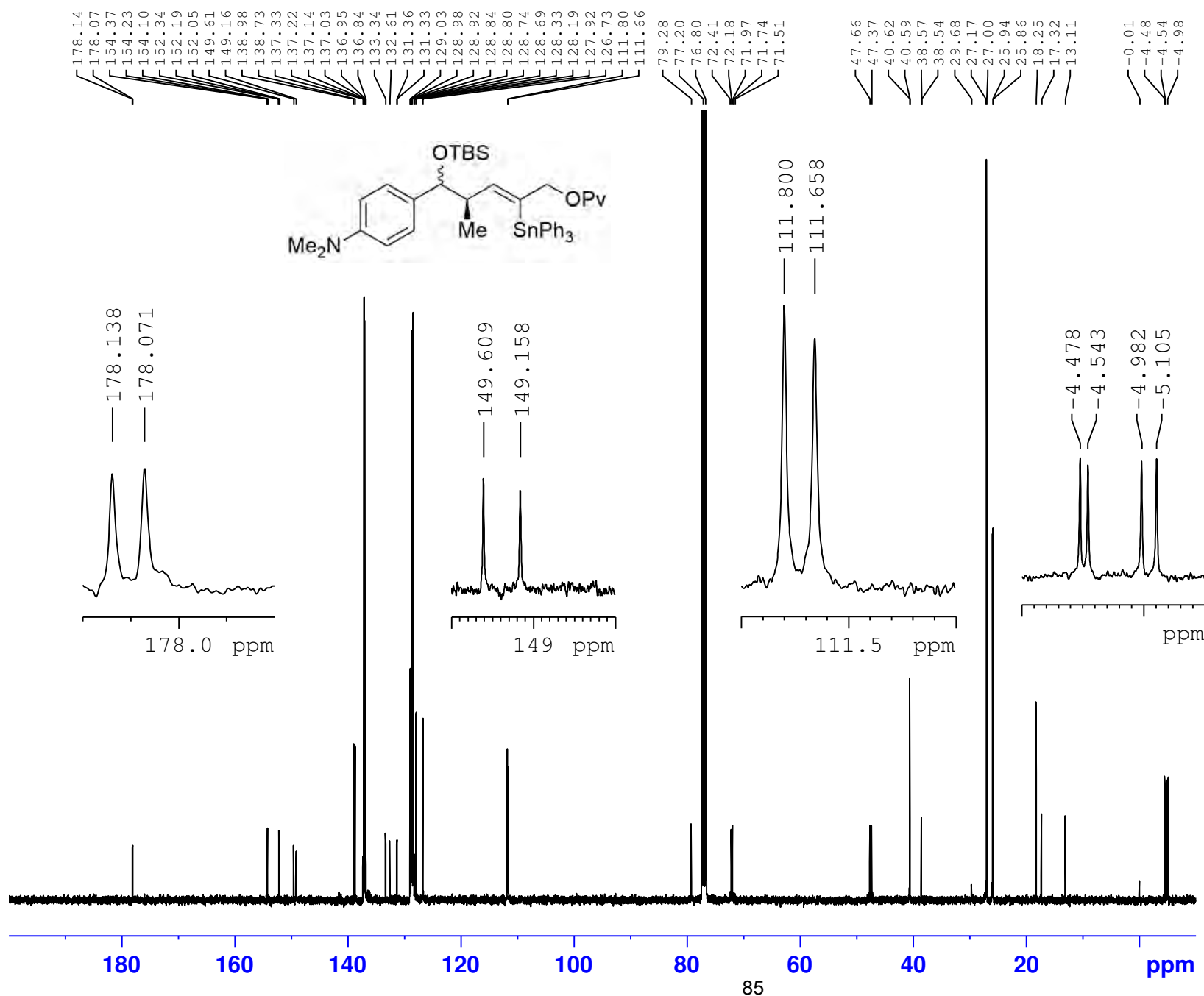
Current Data Parameters
 NAME I-PK-48
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





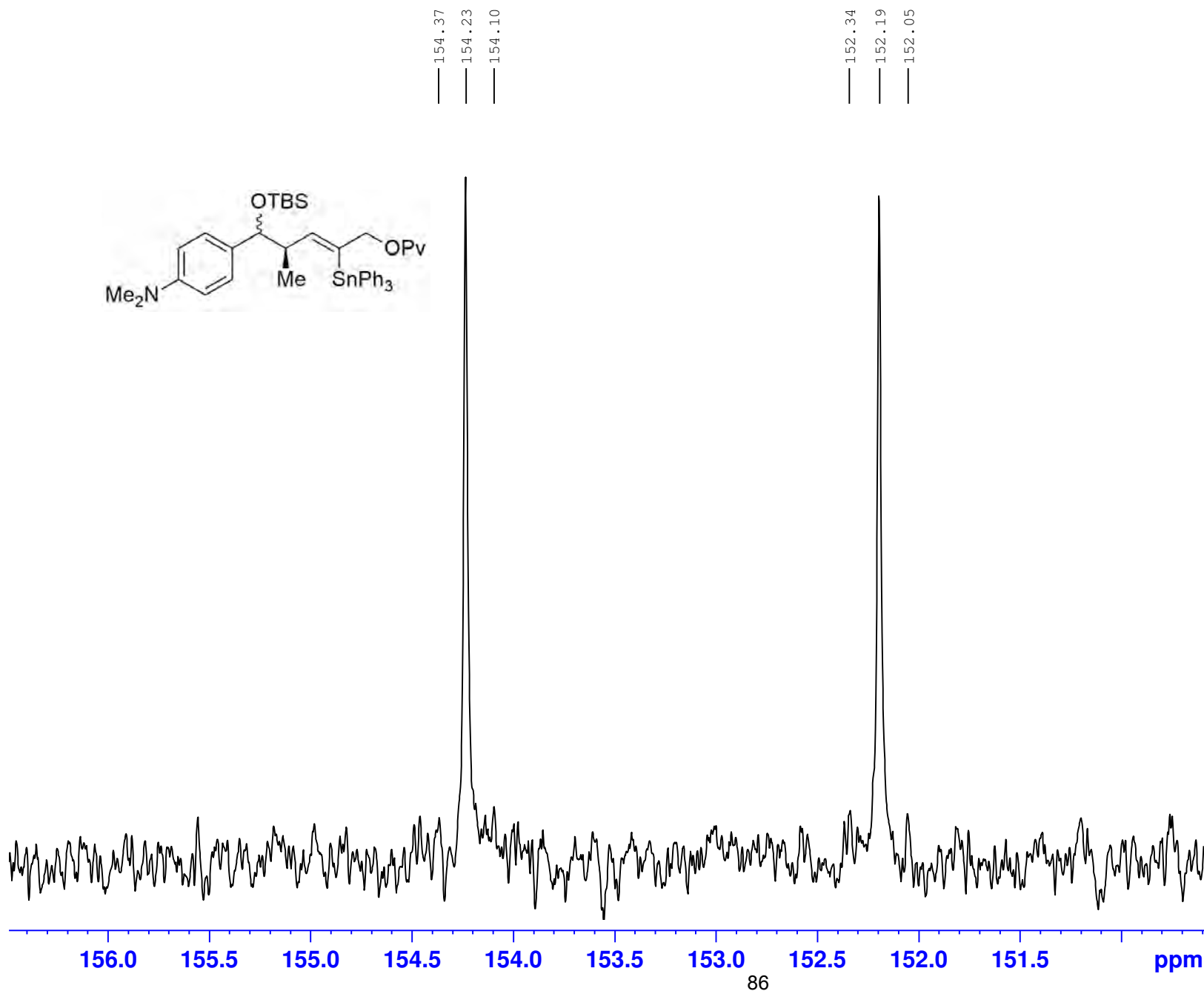
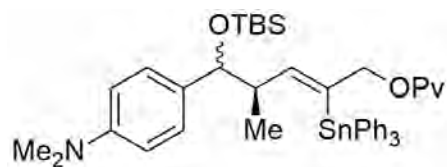
Current Data Parameters
NAME I-PK-48
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180224
Time 9.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.5 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549395 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





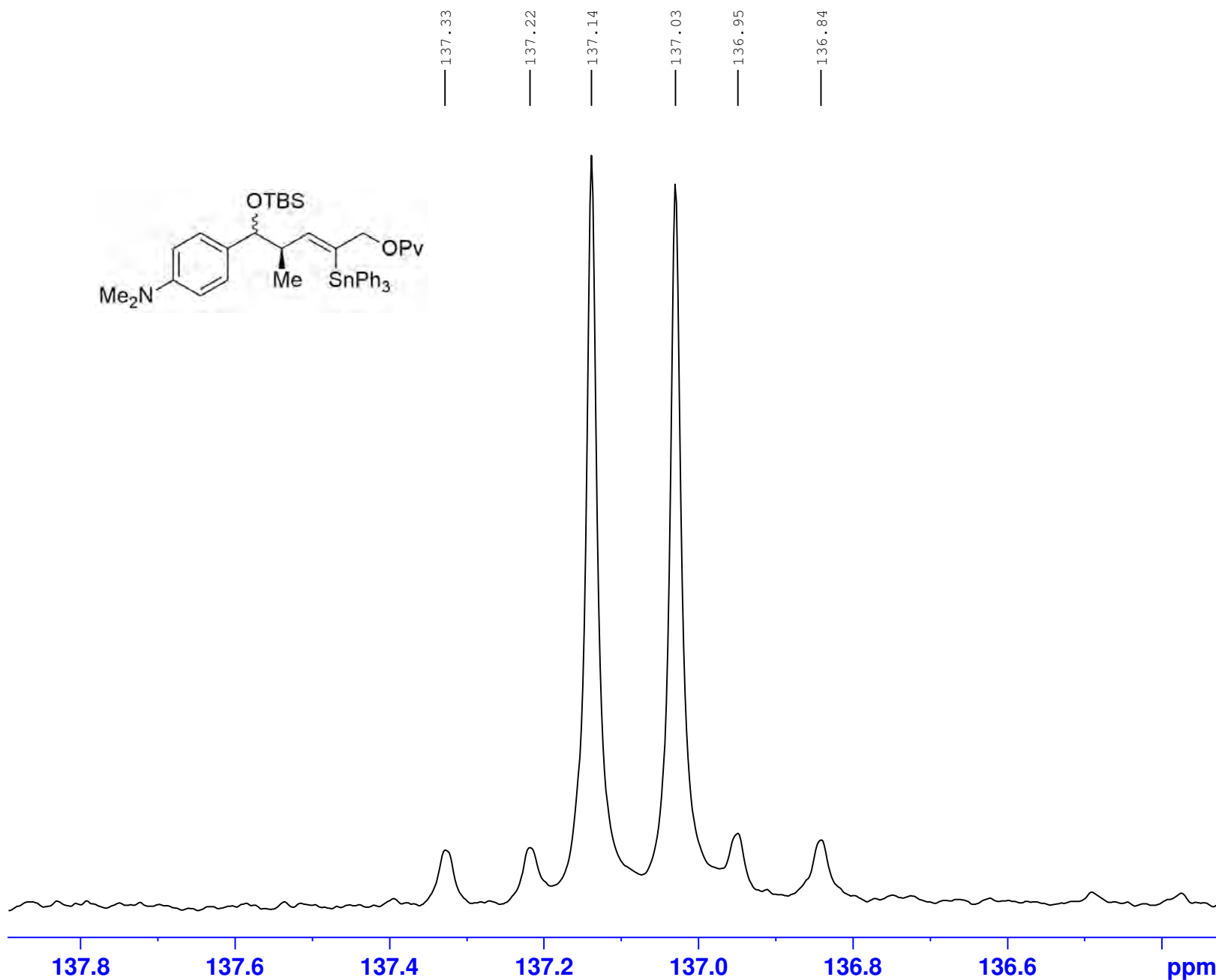
Current Data Parameters
NAME I-PK-48
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180224
Time 9.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.5 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549395 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME I-PK-48
 EXPNO 11
 PROCNO 1

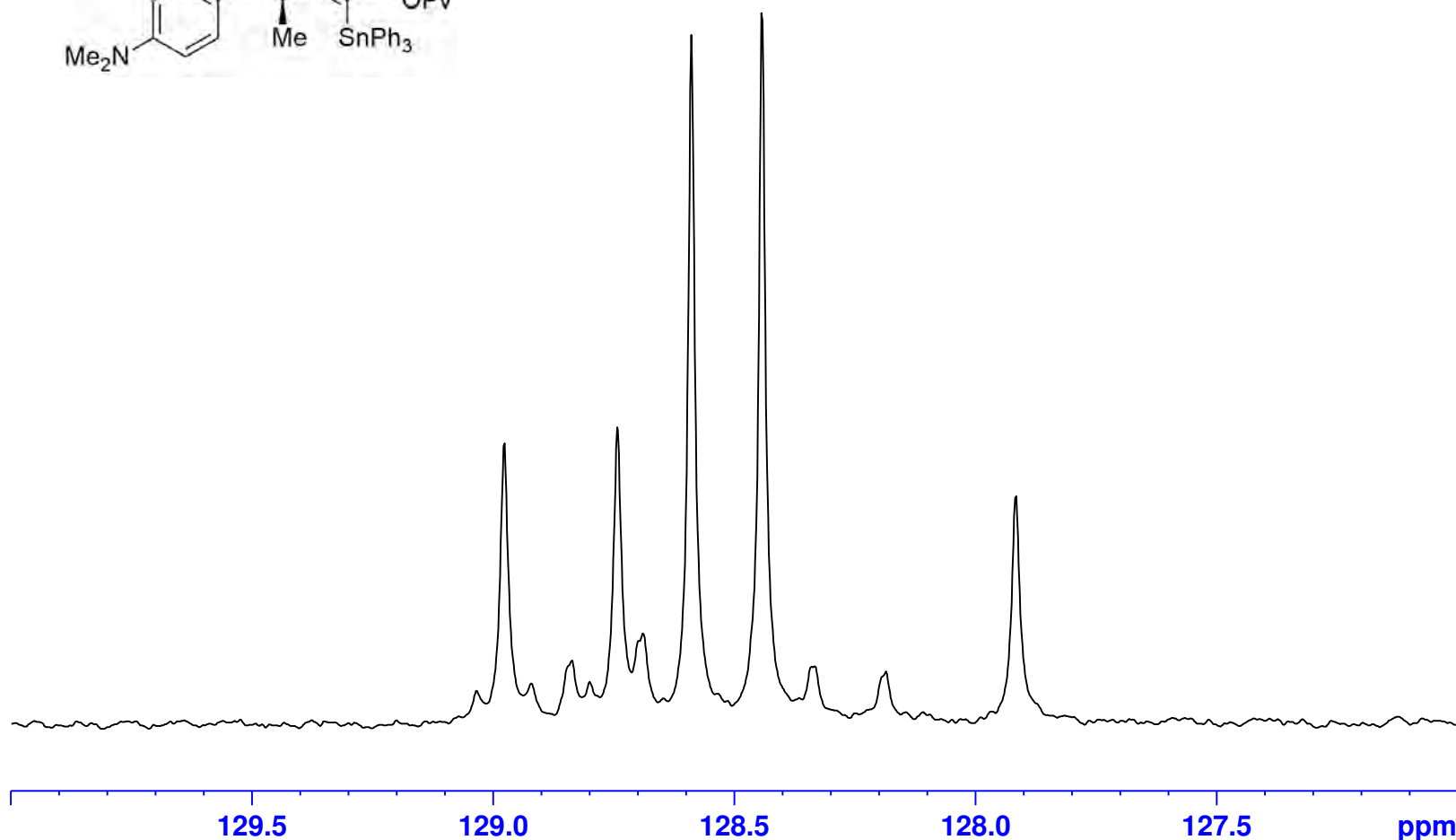
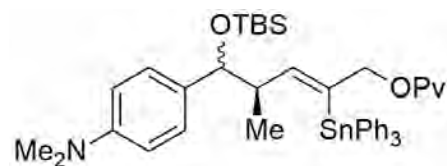
F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

129.03
 128.98
 128.92
 128.84
 128.80
 128.74
 128.69
 128.59
 128.44
 128.33
 128.19
 127.92





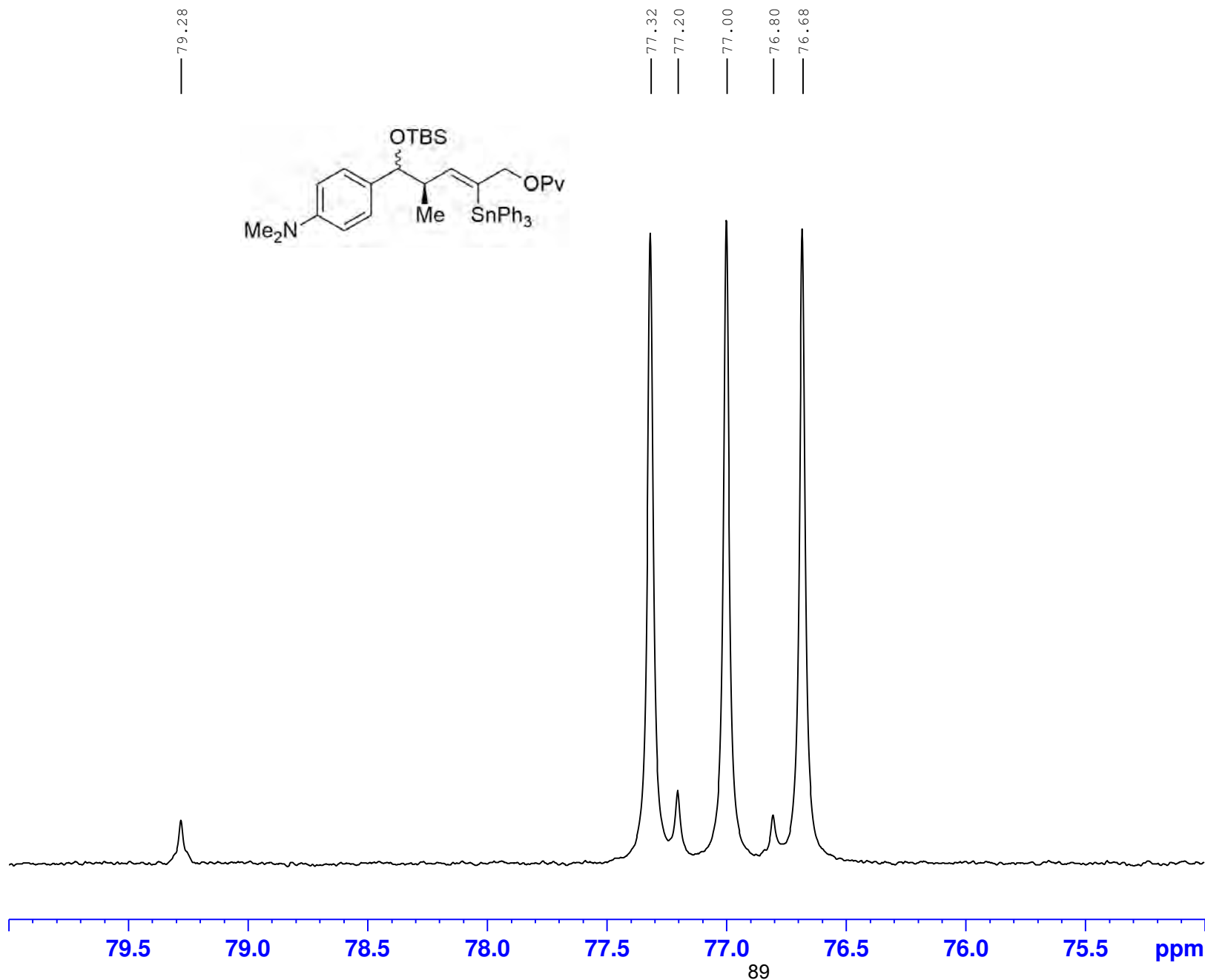
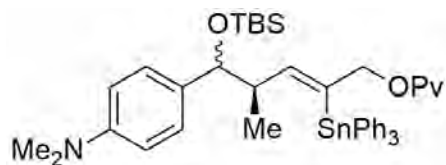
Current Data Parameters
 NAME I-PK-48
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





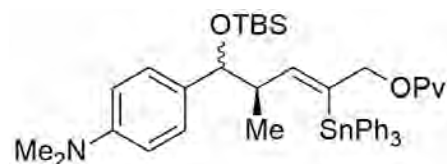
Current Data Parameters
NAME I-PK-48
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180224
Time 9.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.5 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

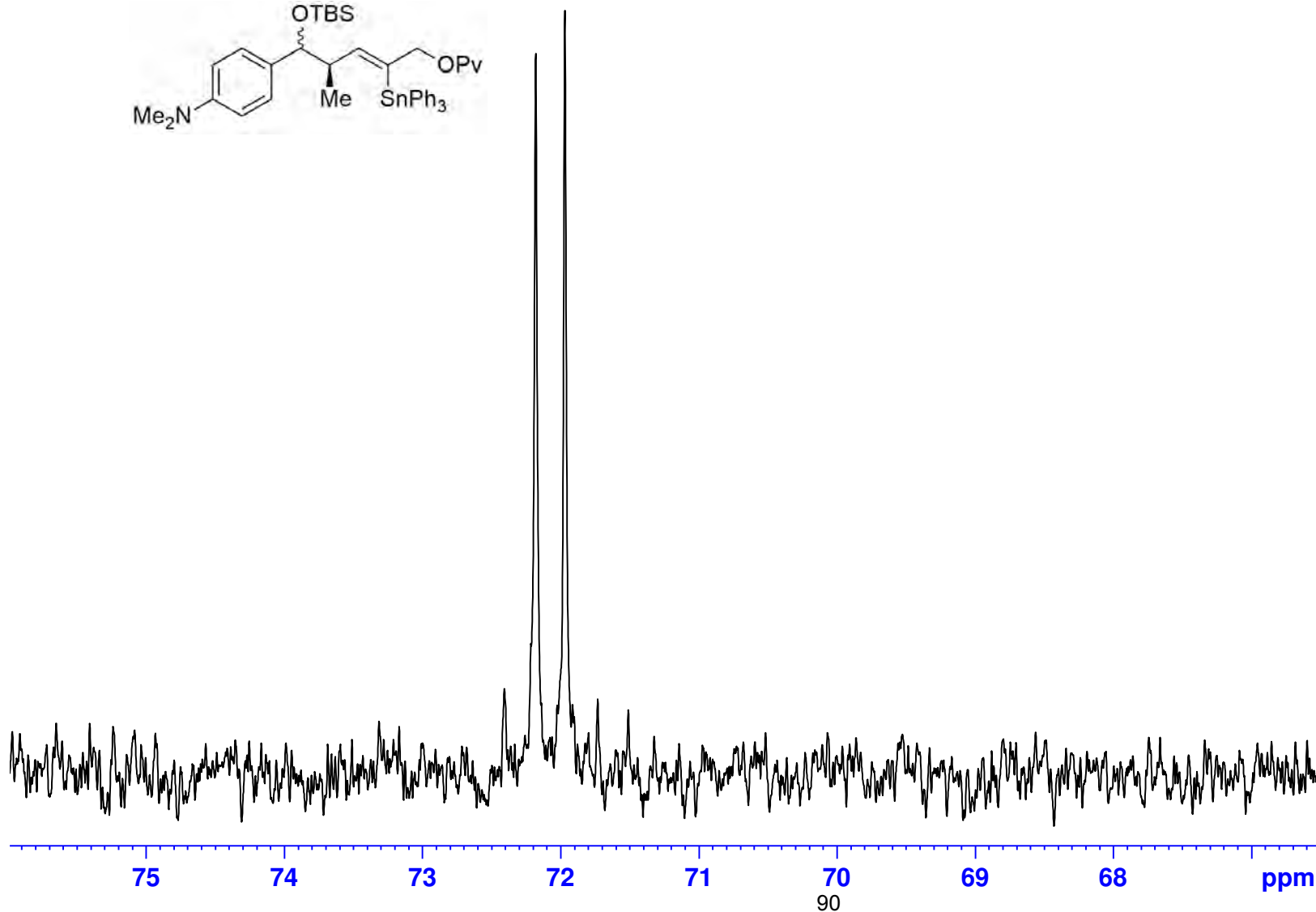
===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549395 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



72.41
72.18
71.97
71.74
71.51





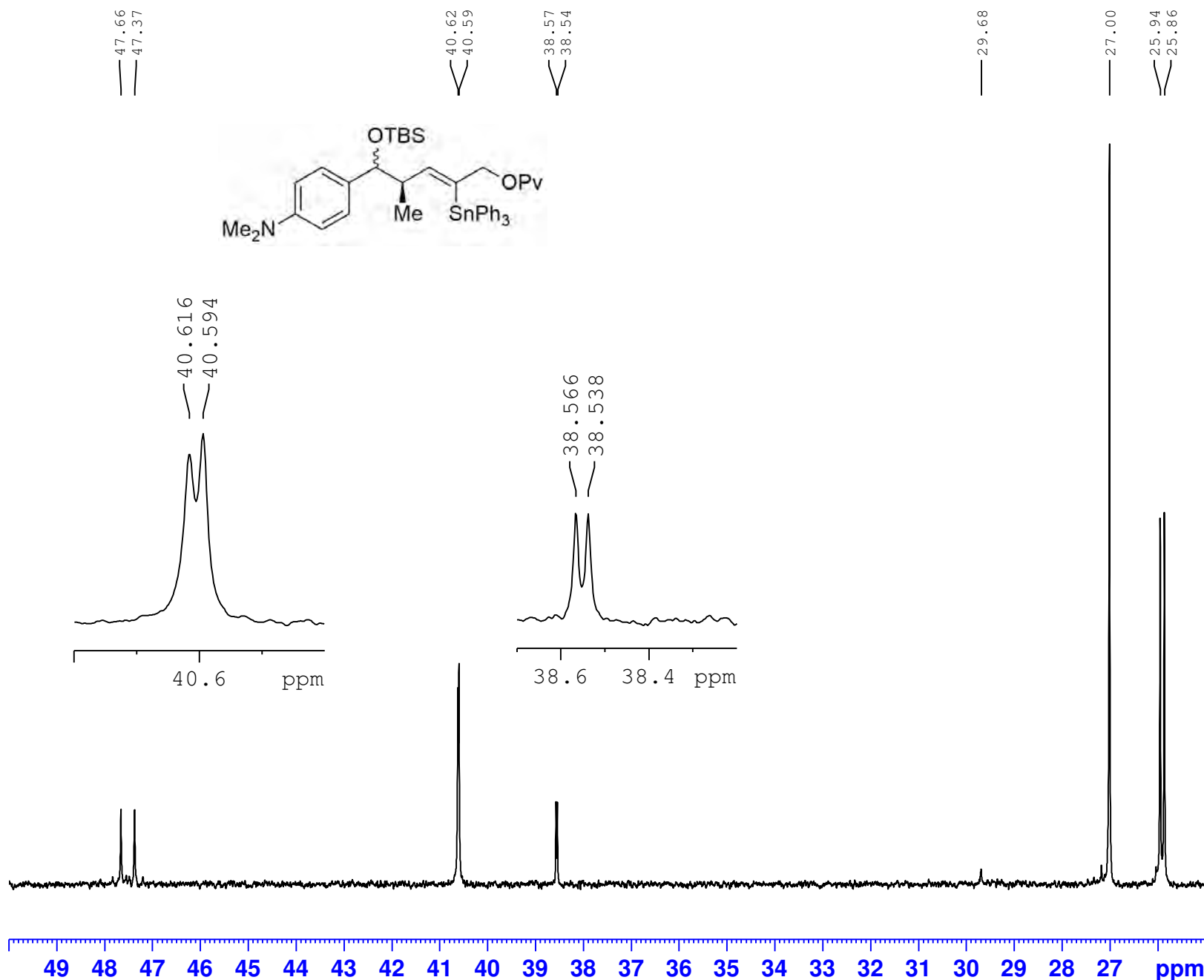
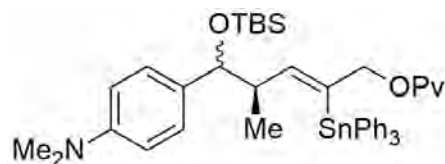
Current Data Parameters
 NAME I-PK-48
 EXPNO 11
 PROCNO 1

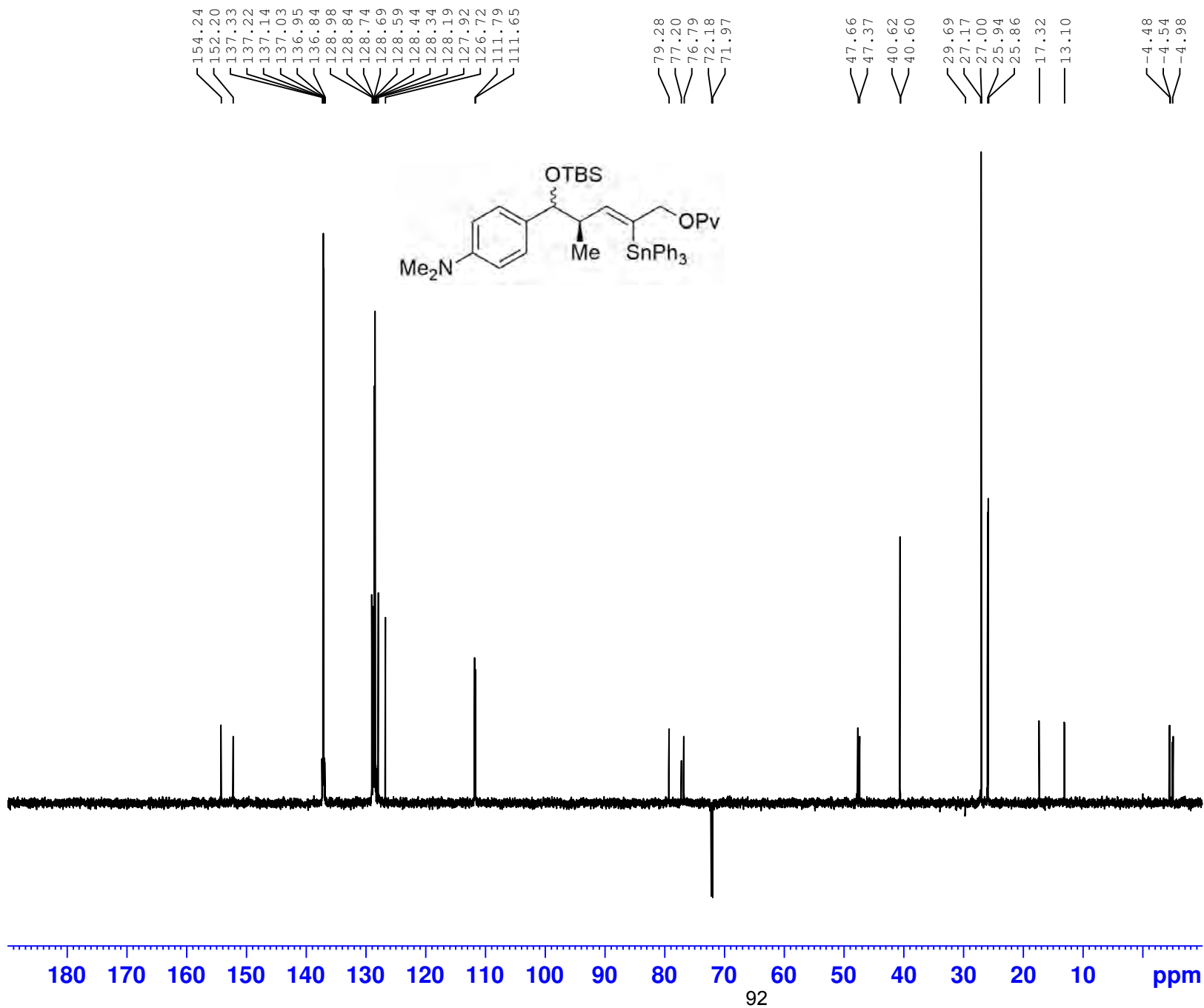
F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





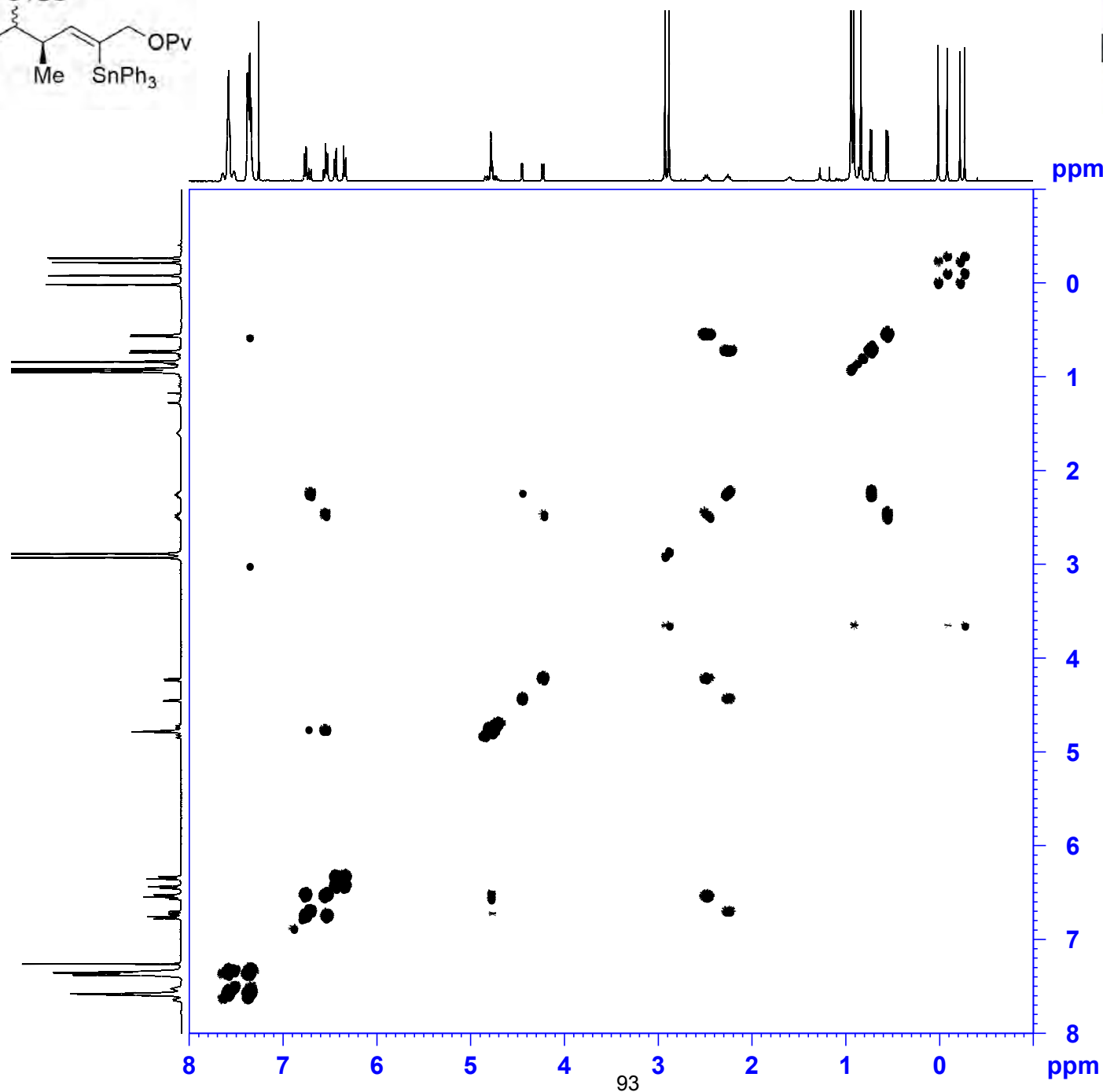
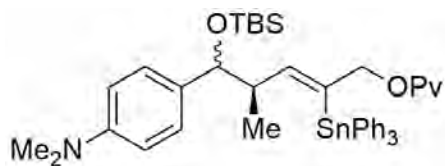
Current Data Parameters
 NAME I-PK-48
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.27
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 296.9 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549395 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-48
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time_ 9.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 3795.547 Hz
 FIDRES 1.853294 Hz
 AQ 0.2697899 sec
 RG 2050
 DW 131.733 usec
 DE 6.50 usec
 TE 296.6 K
 D0 0.00000300 sec
 D1 0.87629992 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00026340 sec

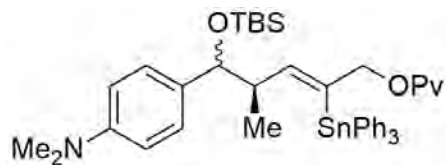
===== CHANNEL f1 =====
 SFO1 399.9014763 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9015 MHz
 FIDRES 29.660213 Hz
 SW 9.494 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000100 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000144 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



Current Data Parameters
 NAME I-PK-48
 EXFNO 15
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.37
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgppsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 298.6 K
 CNST2 145.0000000
 D0 0.00000300 sec
 D1 0.80000001 sec
 D4 0.00172414 sec
 D11 0.030000000 sec
 D16 0.000200000 sec
 D21 0.003600000 sec
 IN0 0.00001910 sec

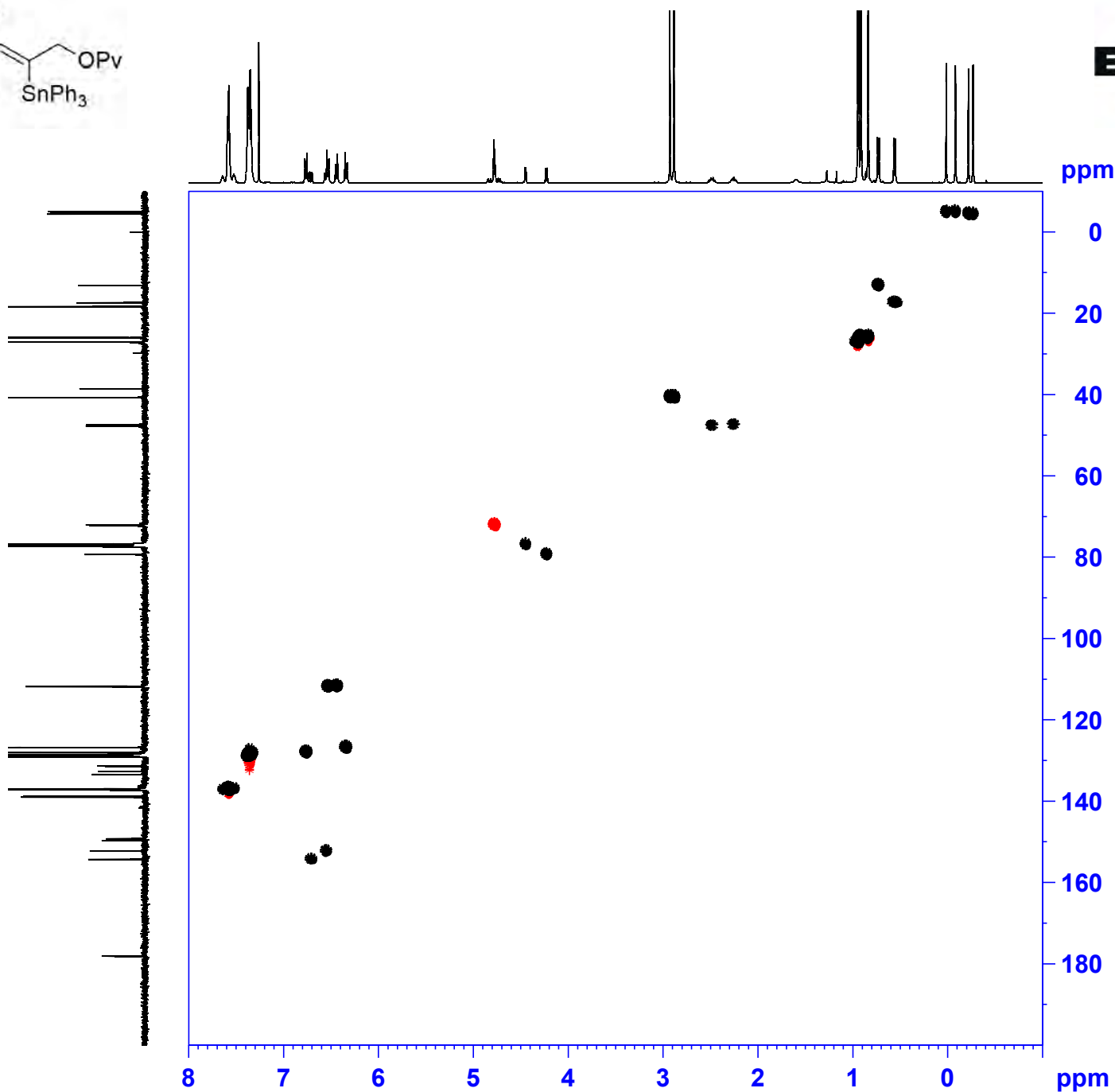
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 1H
 P1 14.88 usec
 P2 29.76 usec
 PLW1 7.59999990 W

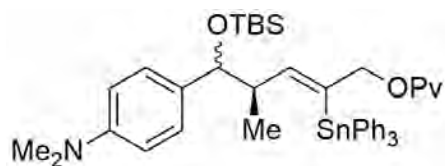
===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 13C
 CPDPRG[2] garp4
 P3 10.00 usec
 P14 500.00 usec
 P31 1900.00 usec
 PCPD2 80.00 usec
 PLW0 0 W
 PLW2 44.46300125 W
 PLW12 0.69472998 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 6.79339981 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GP21 80.00 %
 GP22 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FMODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 399.9000091 MHz
 WDW OSINE





Current data parameters
 NAME I-PK-48
 EXPNO 16
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180224
 Time 9.48
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hmbcetgp13nd
 TD 4096
 SOLVENT CDCl3
 DS 16
 NS 4
 SWH 5208.333 Hz
 FIDRES 1.271566 Hz
 AQ 0.3932160 sec
 RG 2050
 DW 96.000 usec
 DE 6.50 usec
 TE 296.5 K
 CNST6 120.0000000
 CNST7 175.0000000
 CNST13 8.0000000
 CNST30 0.5981122
 D0 0.00000300 sec
 D1 1.50000000 sec
 D6 0.06250000 sec
 D16 0.00020000 sec
 IN0 0.00002070 sec

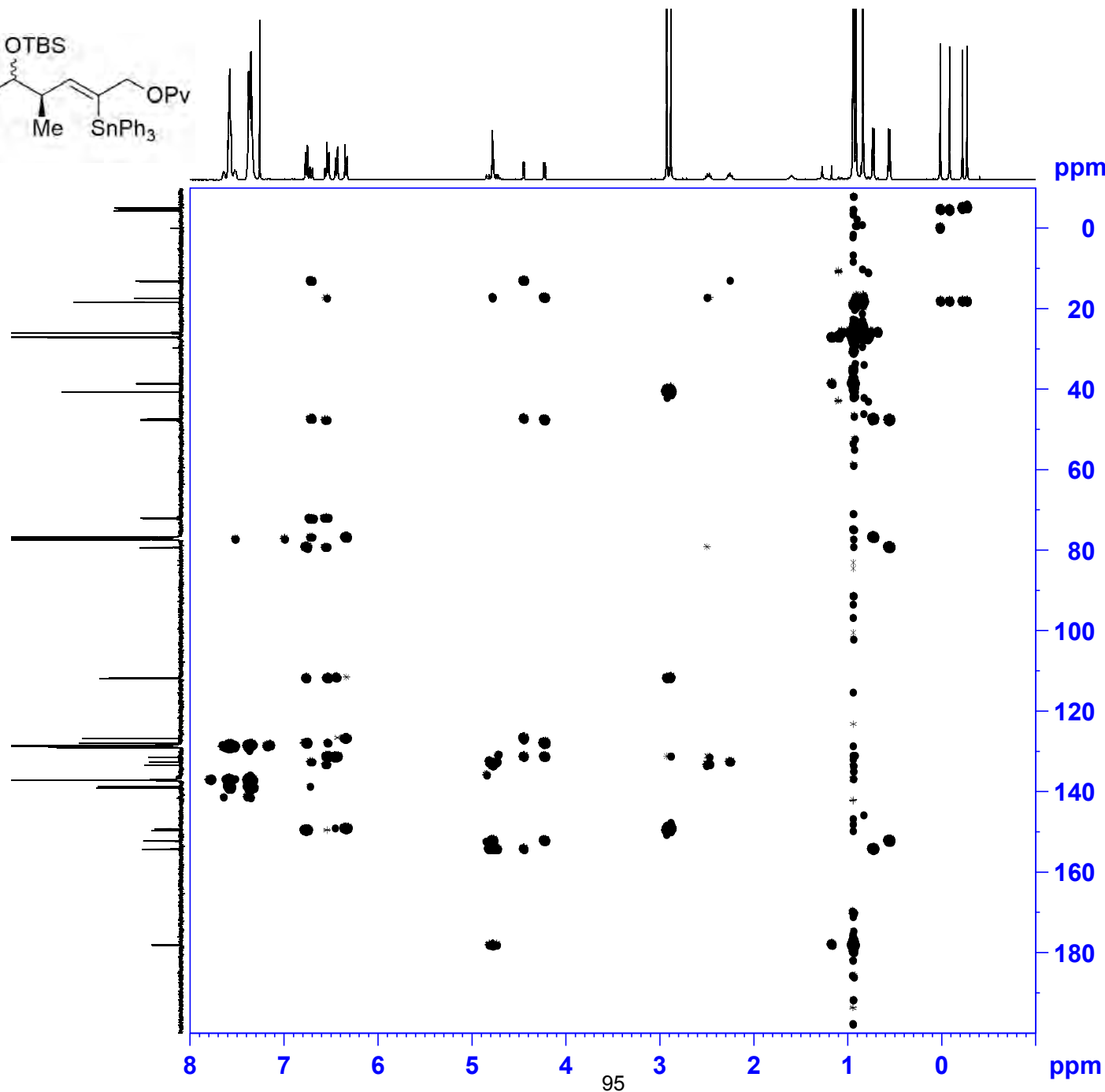
===== CHANNEL f1 =====
 SFO1 399.9019995 MHz
 NUC1 1H
 P1 14.88 usec
 P2 29.76 usec
 PLW1 7.59999990 W

===== CHANNEL f2 =====
 SFO2 100.5659947 MHz
 NUC2 13C
 P3 10.00 usec
 P24 2000.00 usec
 PLW2 44.46300125 W
 SFOAL7 Crp60comp.4
 SPOAL7 0.500
 SPOFFS7 0 Hz
 SPW7 6.79339981 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPNAM[4] SMSQ10.100
 GPNAM[5] SMSQ10.100
 GPNAM[6] SMSQ10.100
 GP21 80.00 %
 GP23 14.00 %
 GP24 -8.00 %
 GP25 -4.00 %
 GP26 -2.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 512
 SFO1 100.566 MHz
 FIDRES 94.353867 Hz
 SW 240.186 ppm
 FMODE Echo-Antiecho

F2 - Processing parameters
 SI 4096
 SF 399.9000097 MHz
 WDW QSINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40



Mass Spectrometry Result Sheet

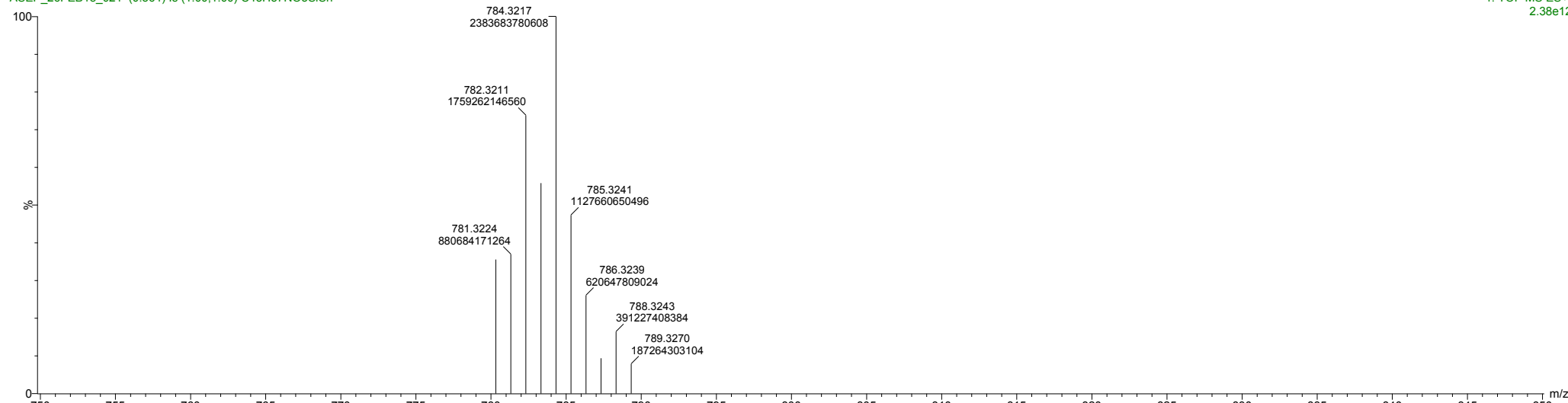
Waters Xevo G2-XS QToF Mass Spectrometer

23-02-2018

I-PK-48

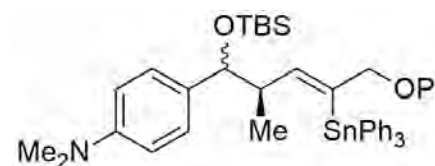
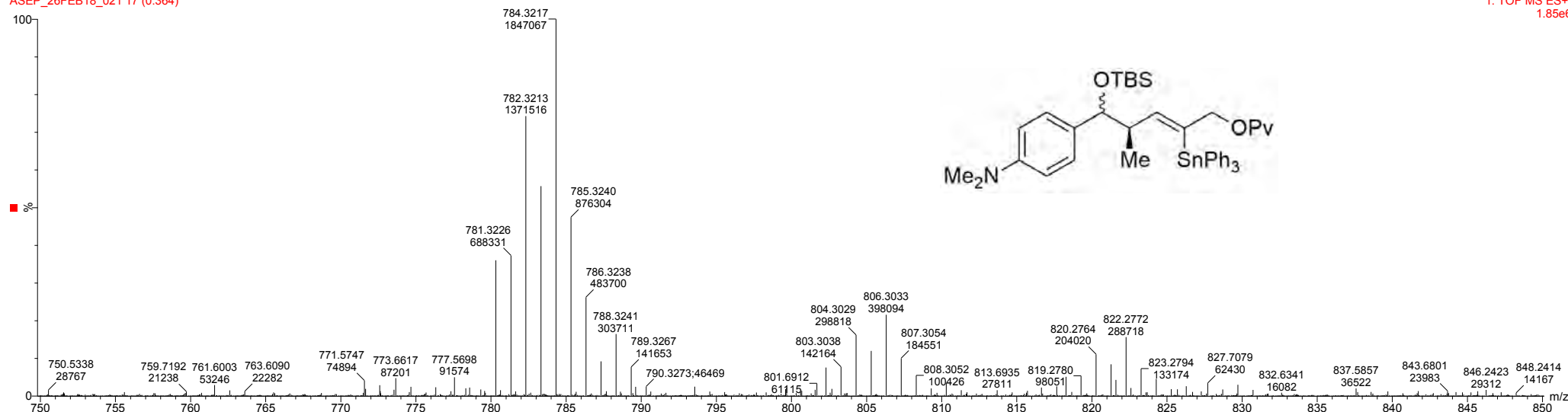
ASEP_26FEB18_021 (0.364) Is (1.00,1.00) C₄₃H₅₇NO₃SiSn

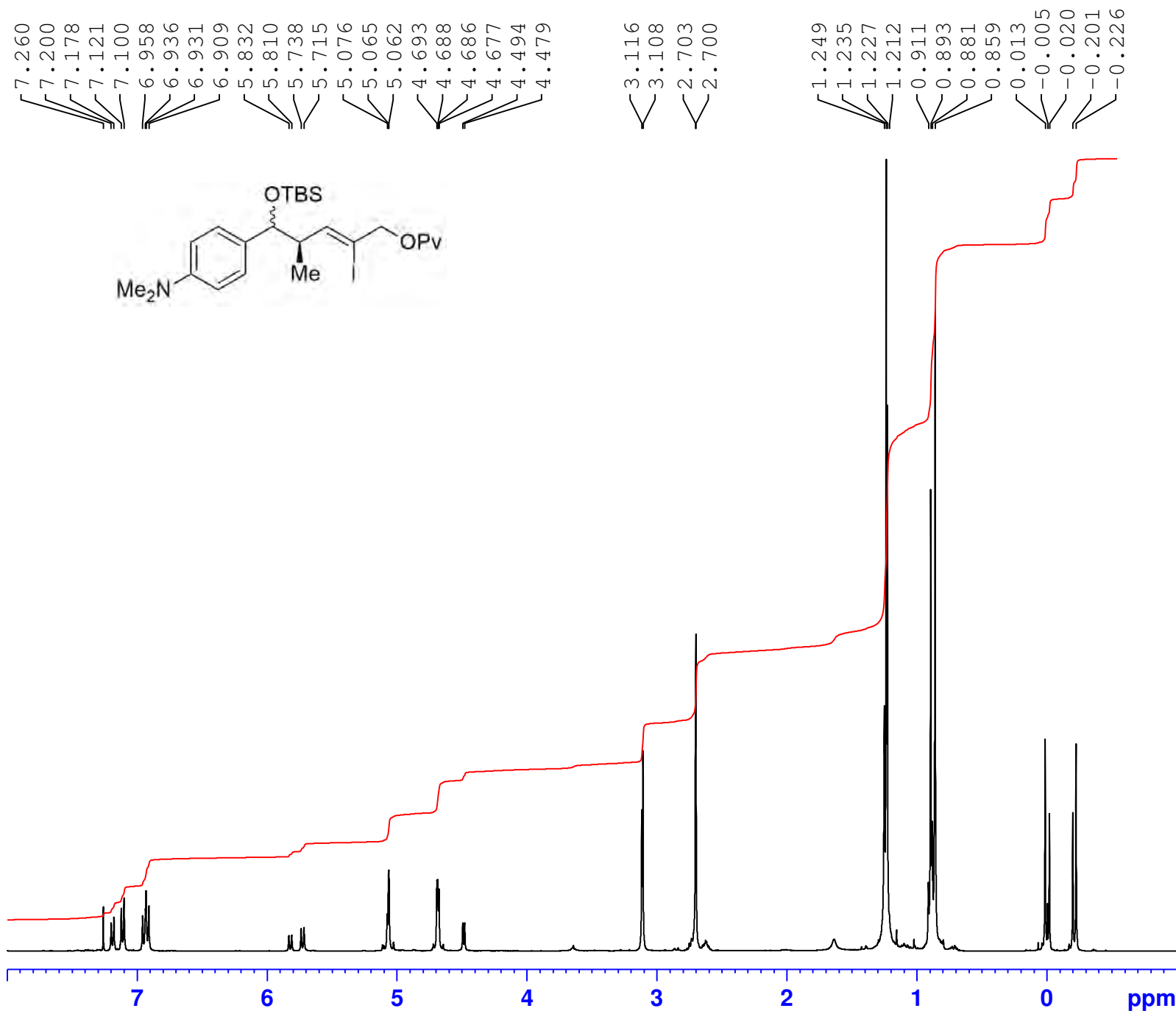
1: TOF MS ES+
2.38e12



ASEP_26FEB18_021 17 (0.364)

1: TOF MS ES+
1.85e6





Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180111
 Time 4.12
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 50.8
 DW 41.600 usec
 DE 9.85 usec
 TE 295.8 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

7.260
7.200
7.178
7.121
7.100
6.958
6.936
6.931
6.909

5.832
5.810
5.738
5.715

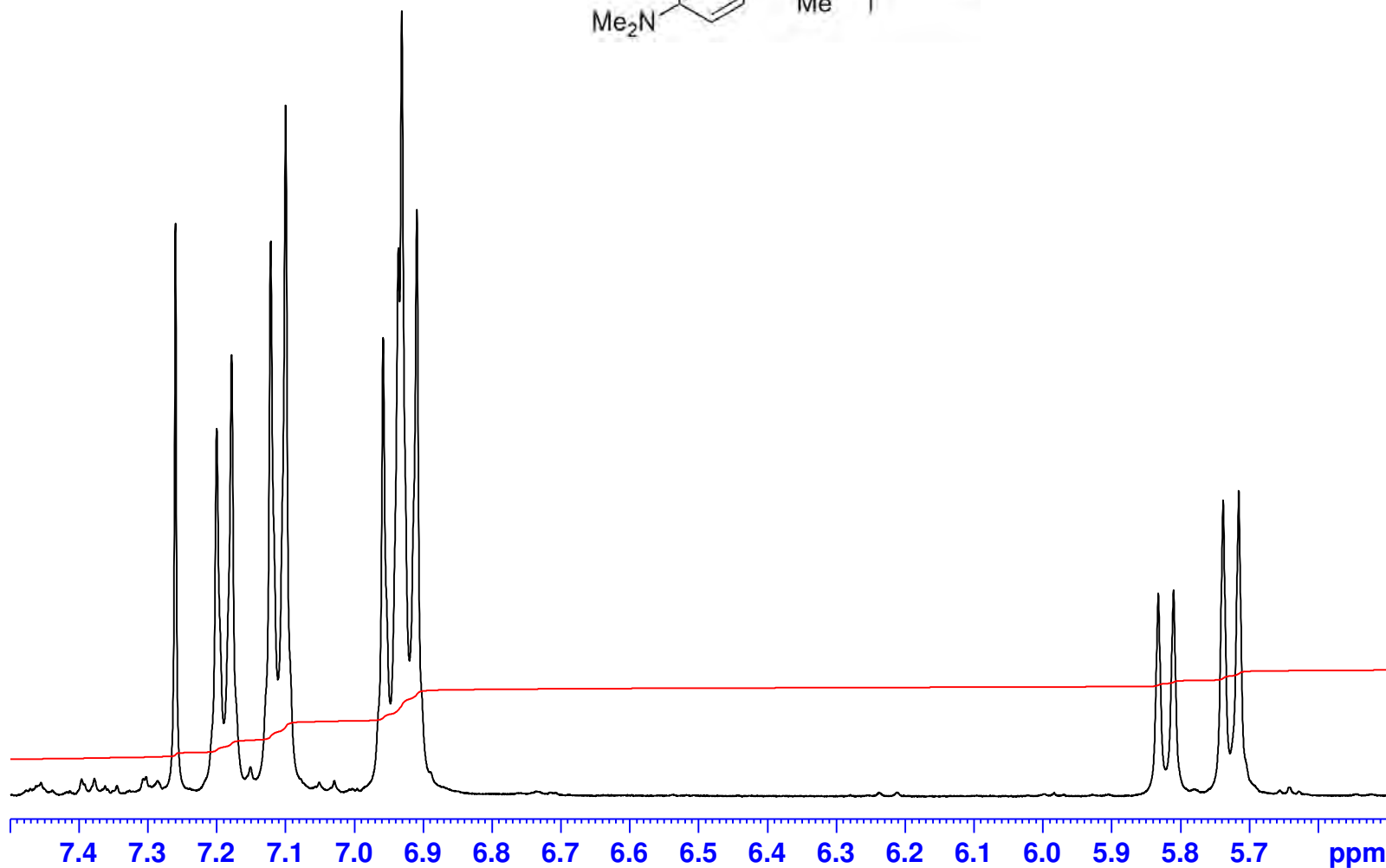
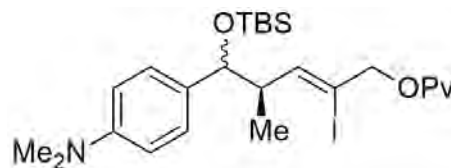


Current Data Parameters
NAME I-PK-27DRY
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time 4.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 295.8 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



5.112
5.102
5.076
5.065
5.062
5.027

4.721
4.718
4.693
4.688
4.686
4.677
4.646
4.643

4.494
4.479

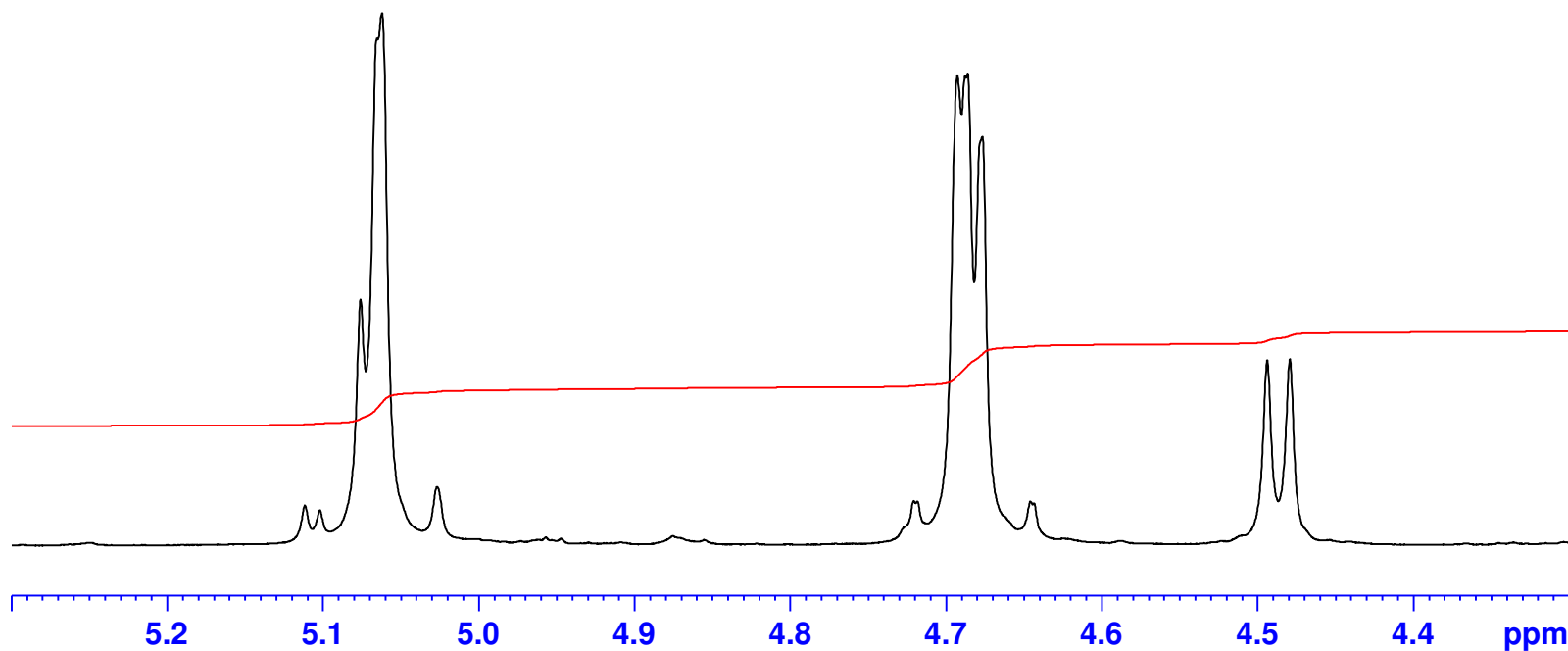
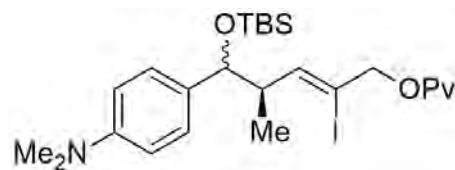


Current Data Parameters
NAME I-PK-27DRY
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time 4.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 295.8 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

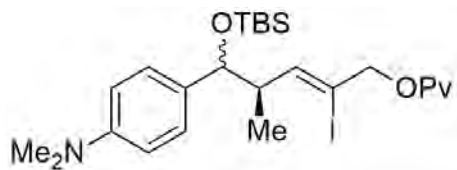
F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



3.116
3.108

2.734
2.703
2.700

2.627

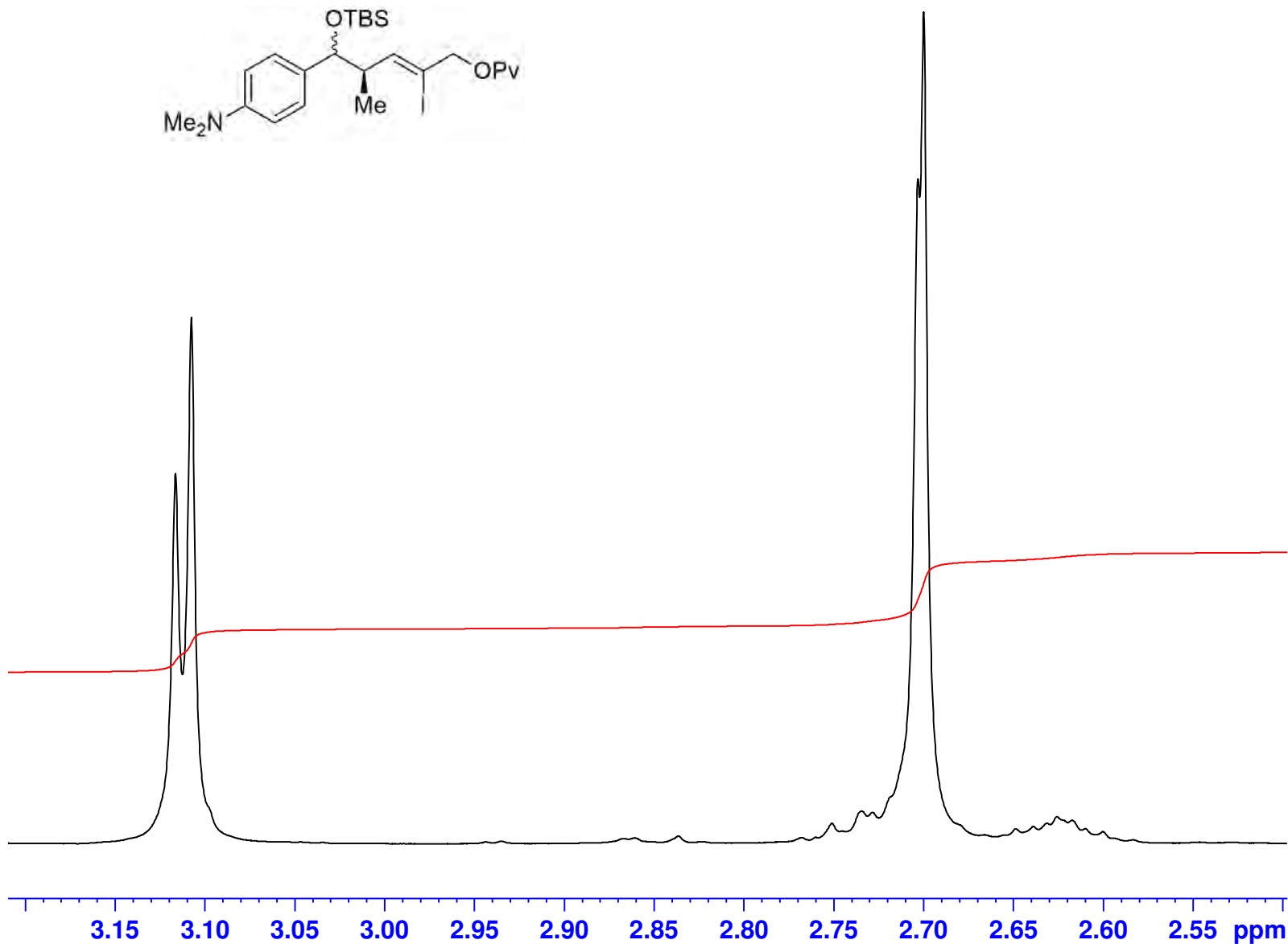


Current Data Parameters
NAME I-PK-27DRY
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time 4.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 295.8 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



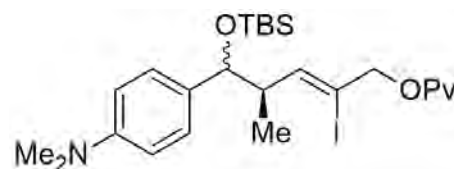


Current Data Parameters
NAME I-PK-27DRY
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time 4.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 295.8 K
D1 0.10000000 sec
TD0 1

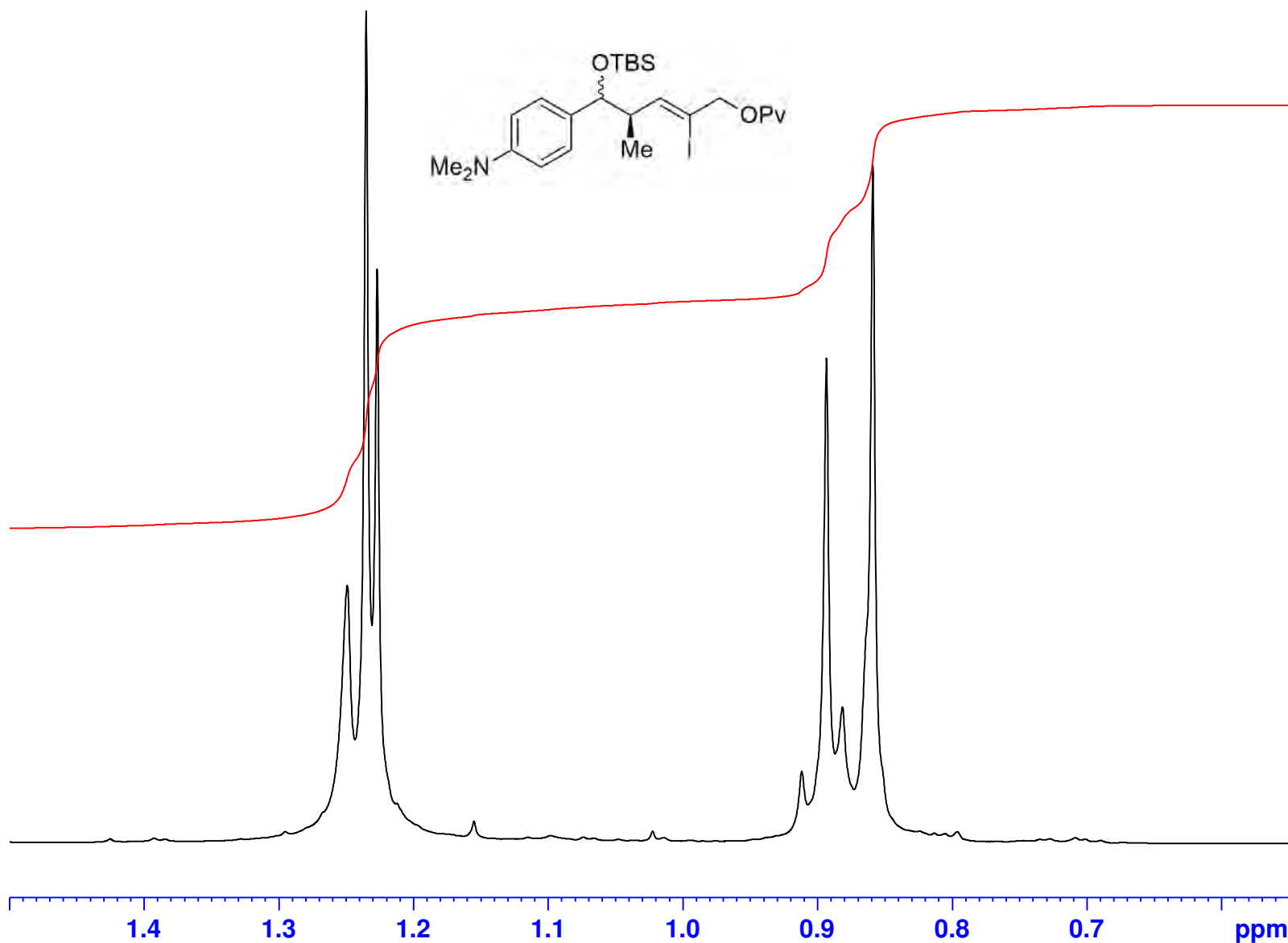
===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



1.249
1.235
1.227
1.212

0.911
0.893
0.881
0.859





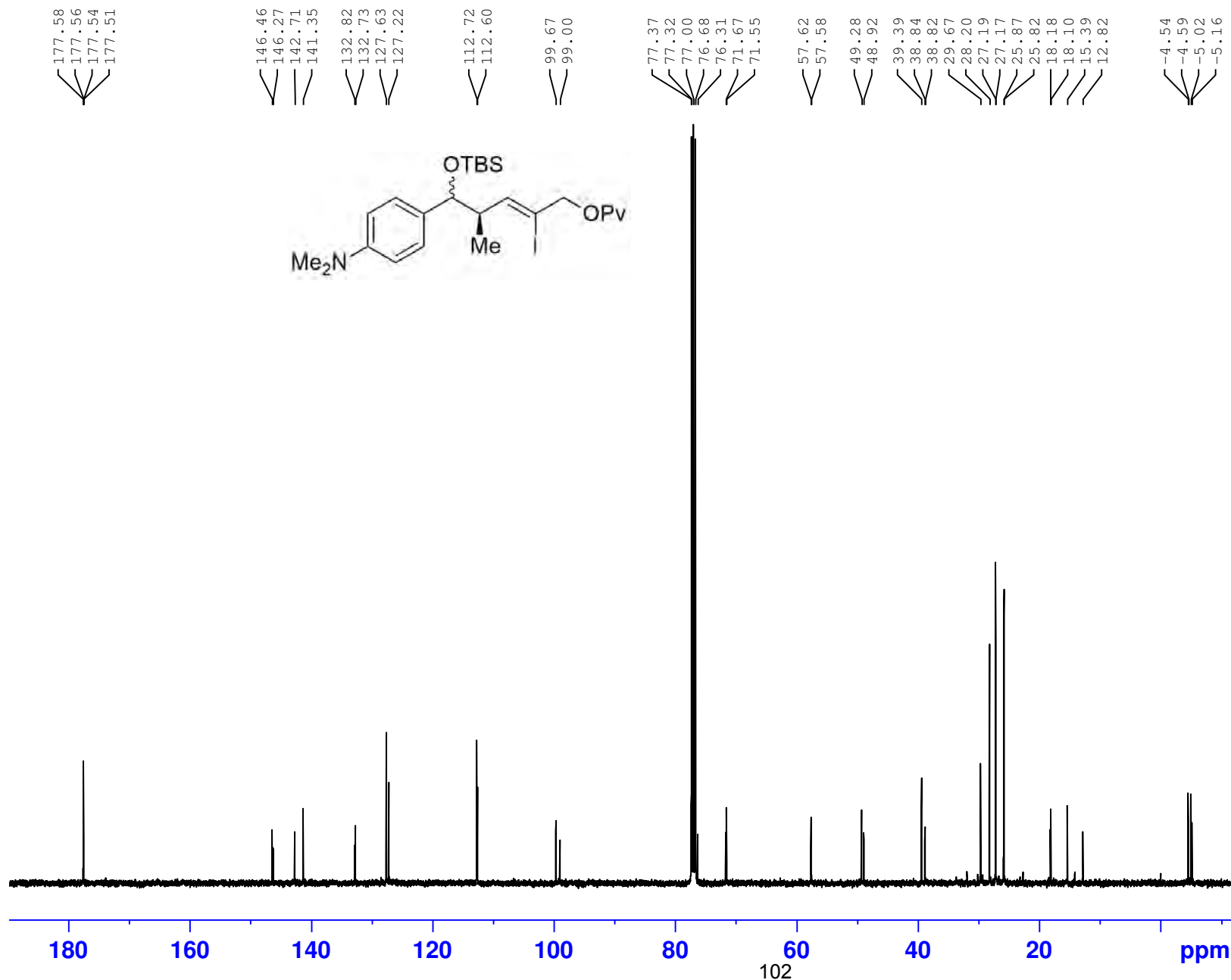
Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180111
 Time 5.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549391 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





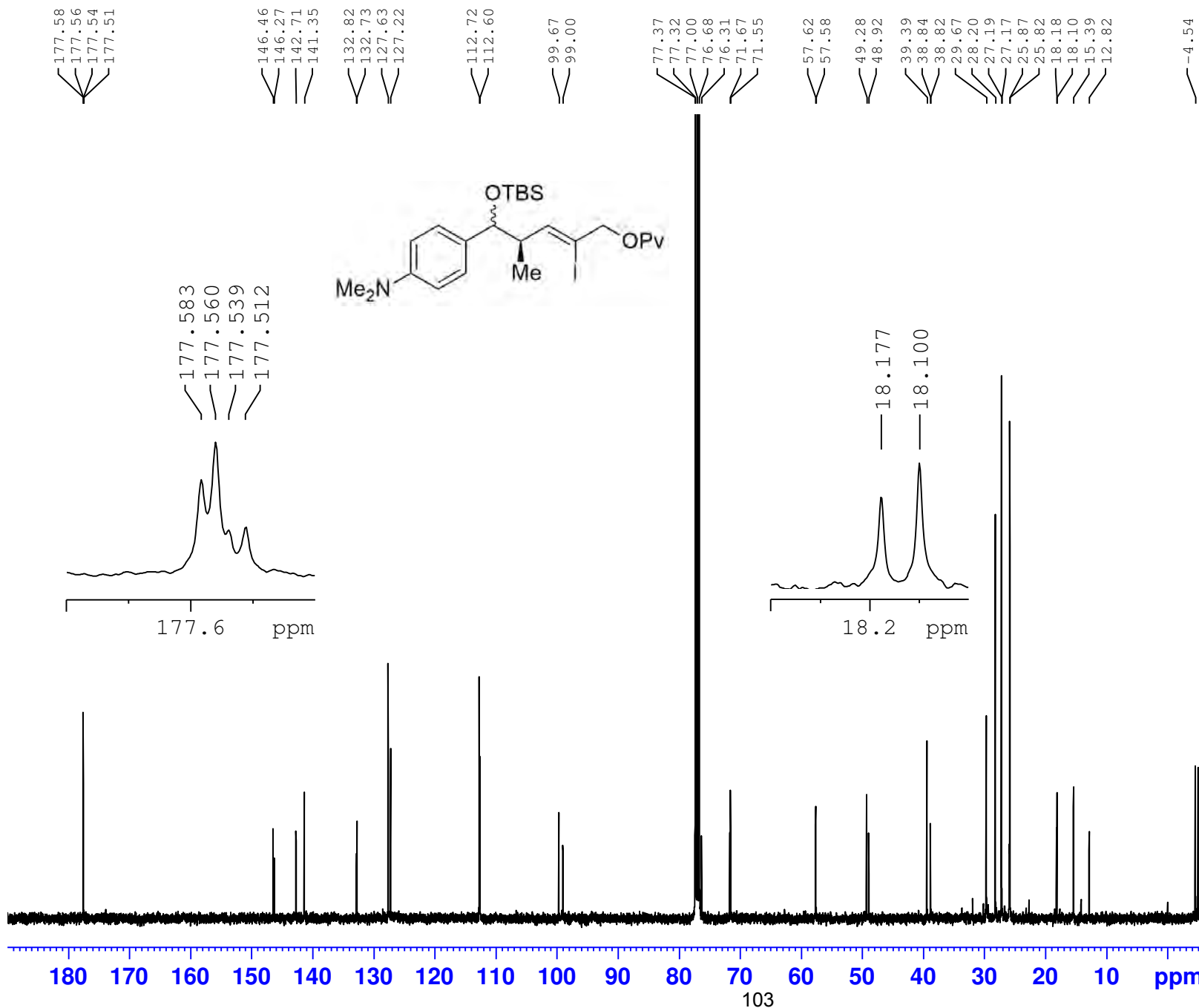
Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 11
 PROCNO 1

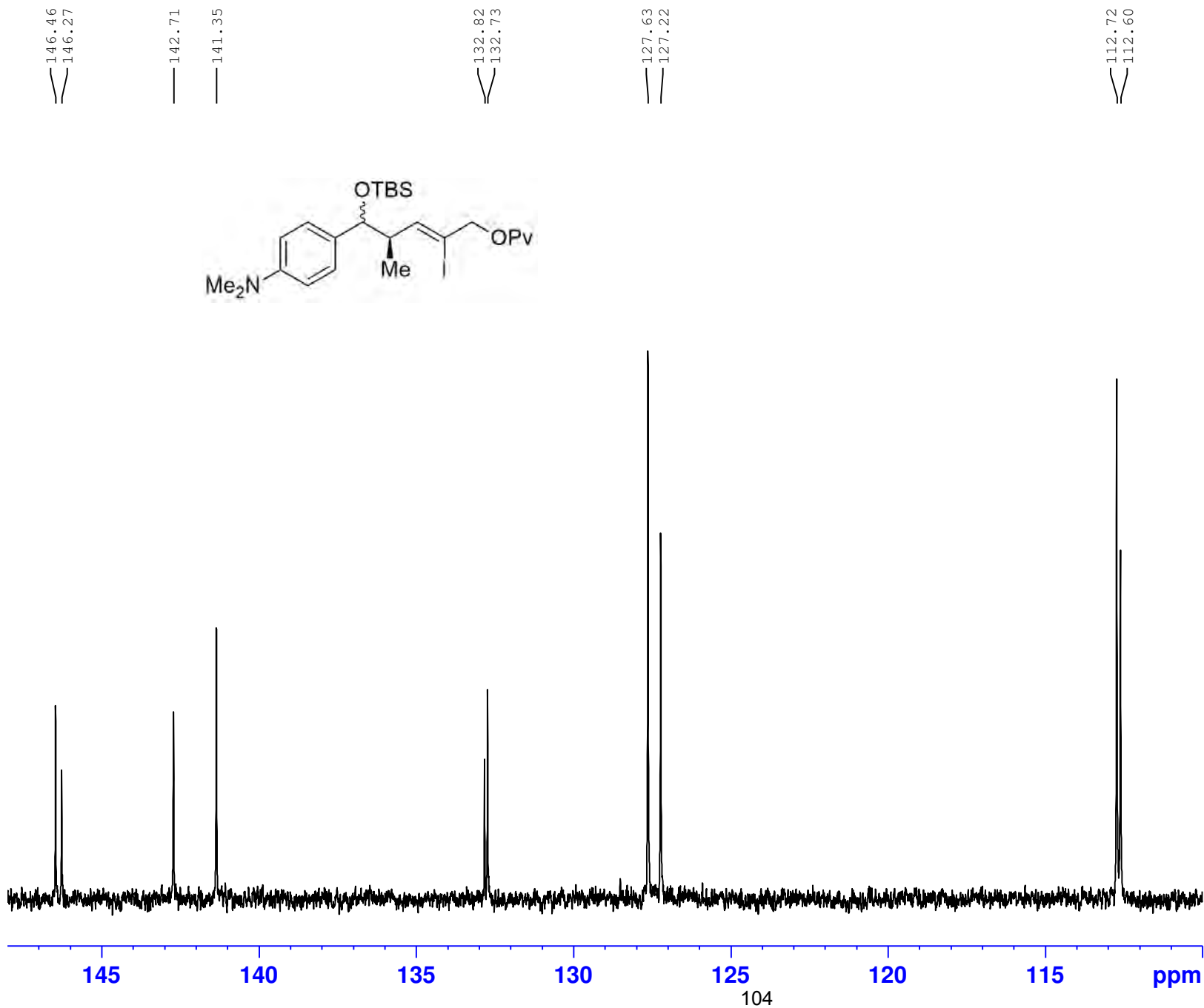
F2 - Acquisition Parameters
 Date_ 20180111
 Time 5.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SF02 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549391 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





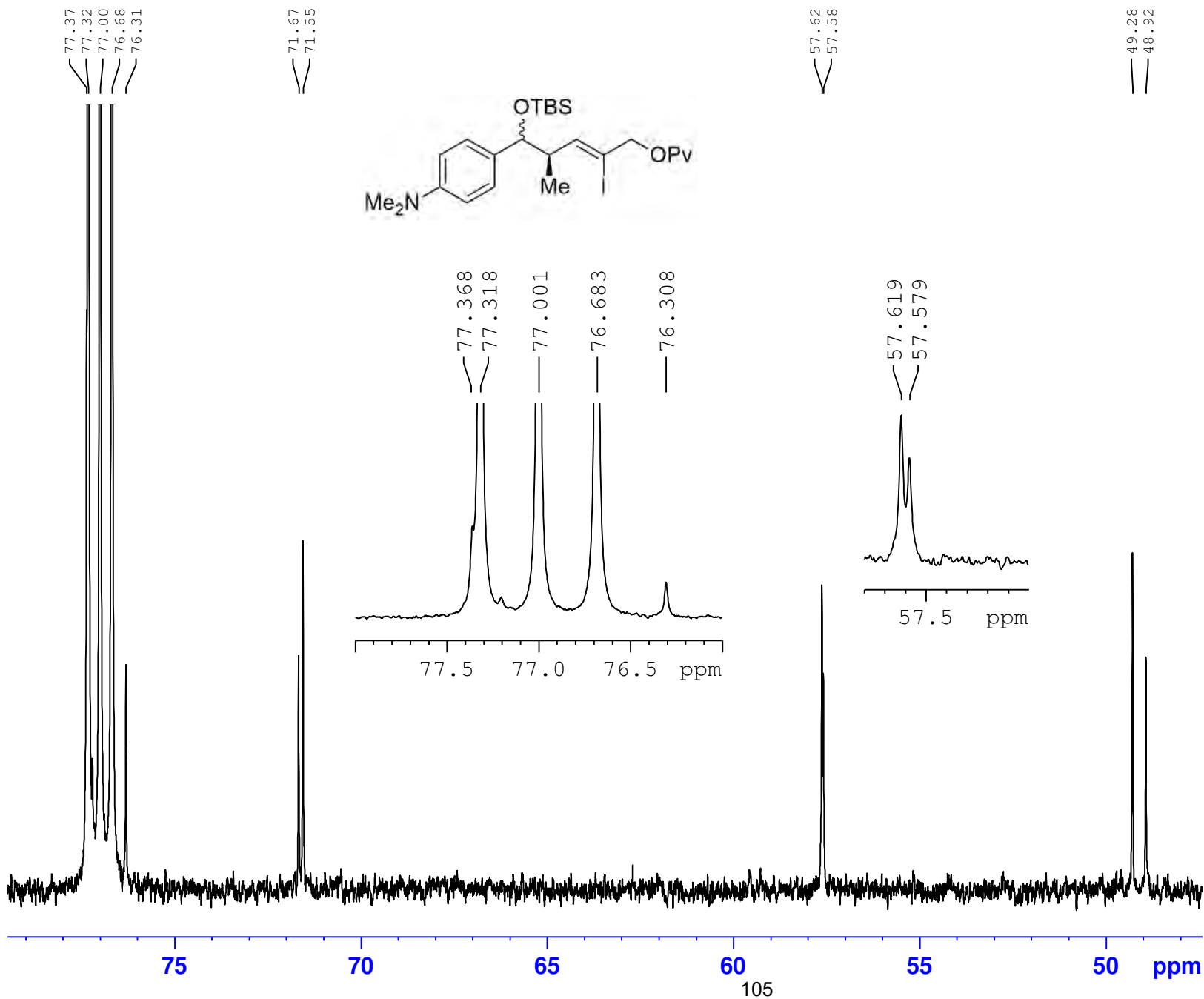
Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180111
 Time 5.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549391 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



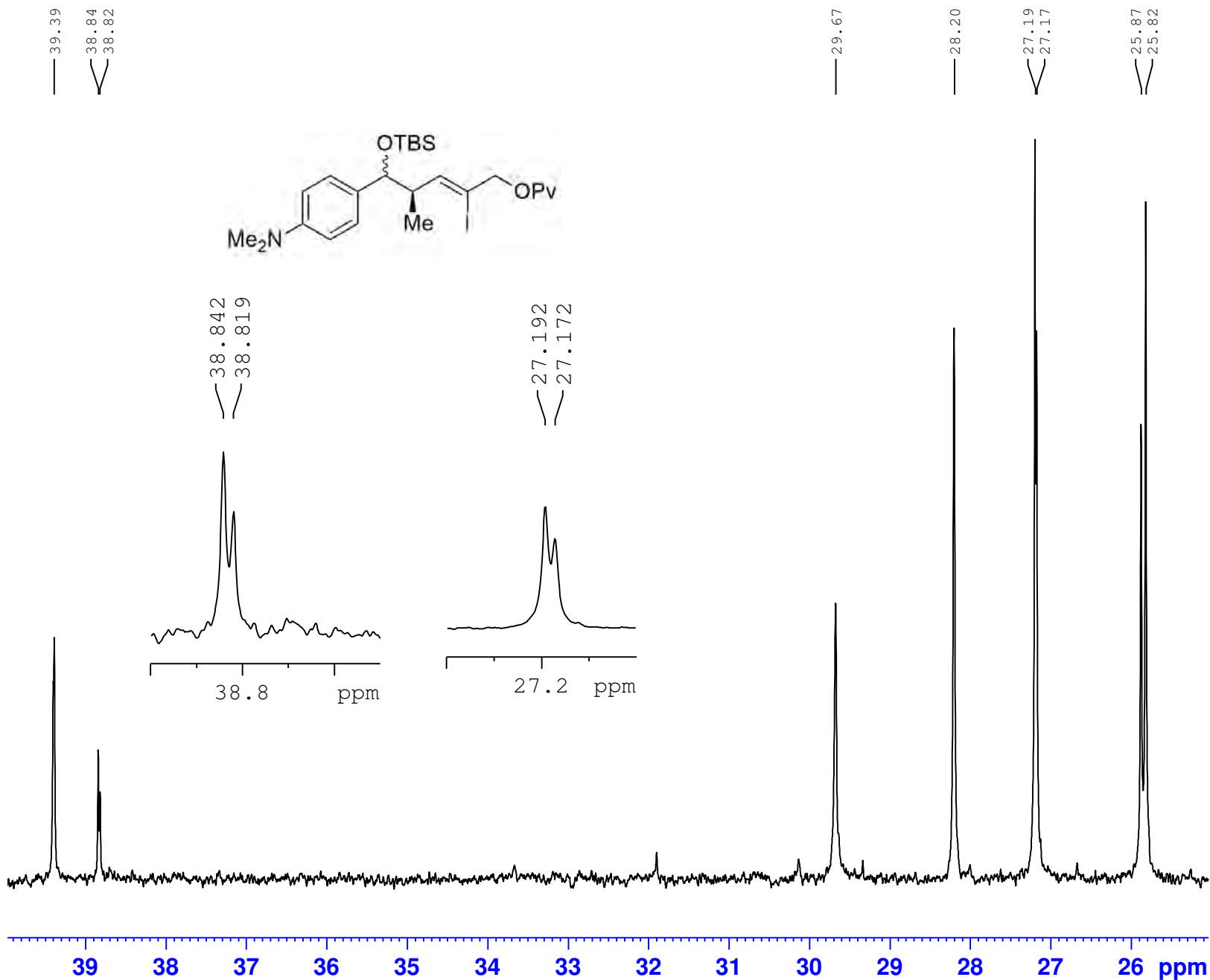
Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180111
 Time 5.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549391 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-27DRY
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180111
 Time 5.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549391 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

142.72
141.35

127.63
127.22

112.71
112.59

77.35
76.29

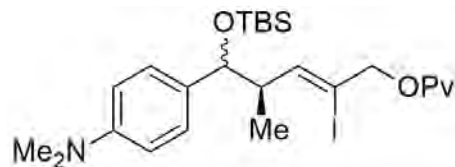
49.28
48.92

39.40

27.19
27.17
25.87
25.81

15.39
12.80

-4.54
-4.59
-5.02



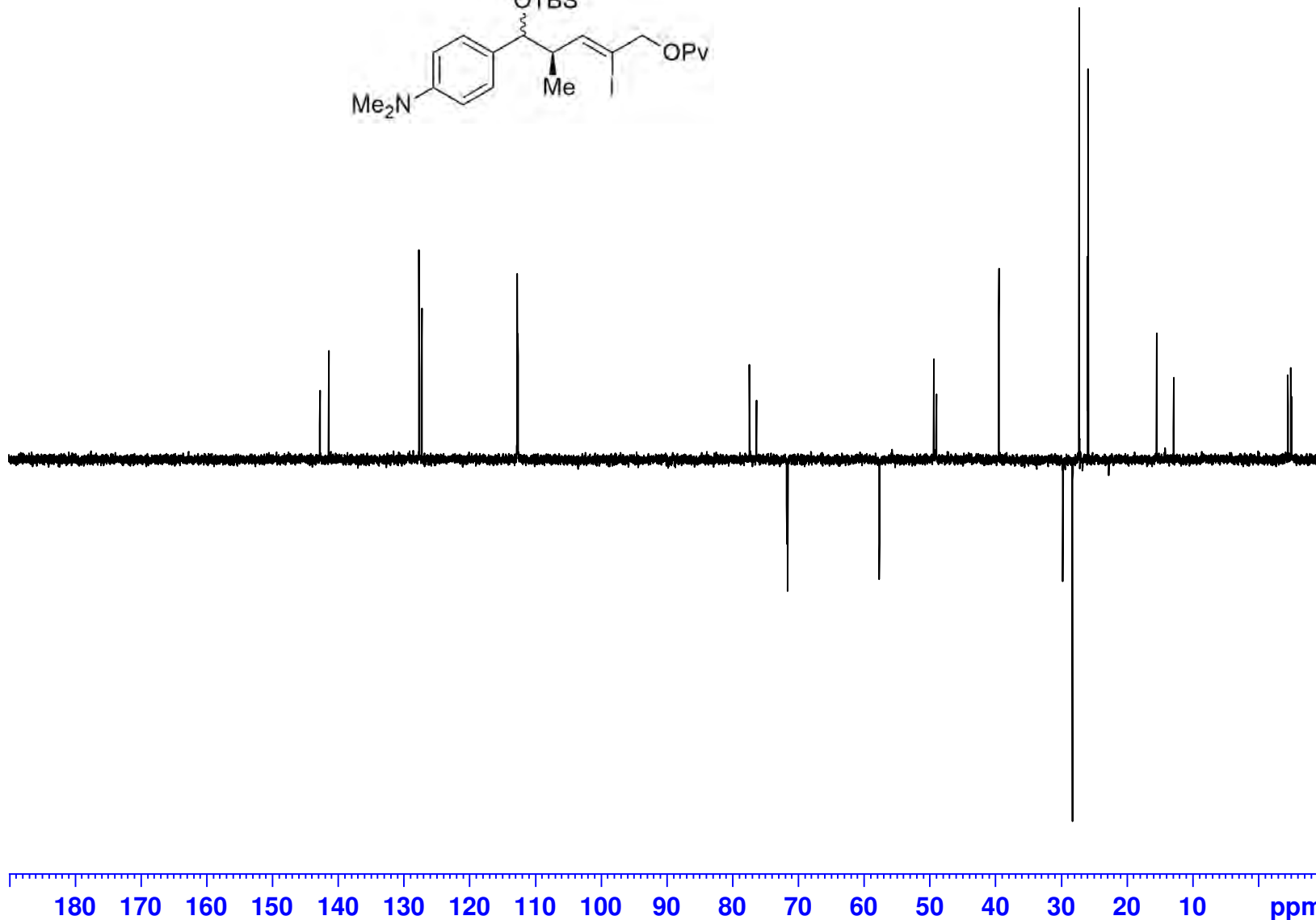
Current Data Parameters
NAME I-PK-27DRY
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time 4.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 296.4 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5549391 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data parameters
NAME I-PK-27DRY
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time_ 4.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygmfpqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 4076.087 Hz
FIDRES 1.990277 Hz
AQ 0.2512213 sec
RG 2050
DW 122.667 usec
DE 6.50 usec
TE 296.0 K
D0 0.00000300 sec
D1 0.89678001 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00024540 sec

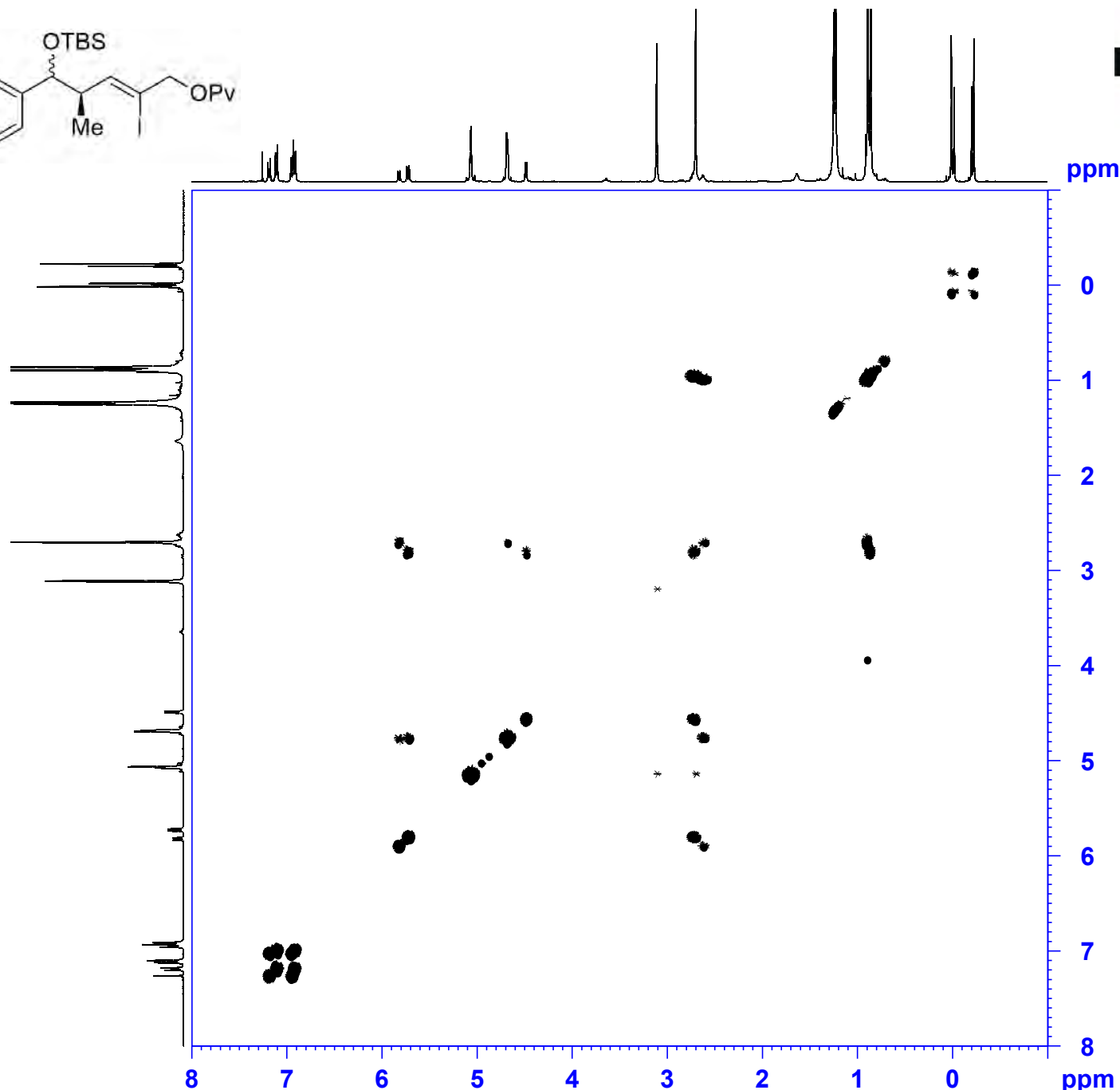
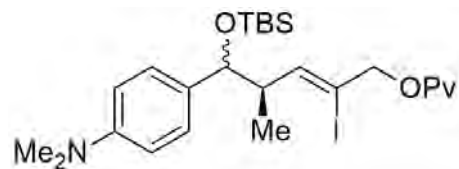
===== CHANNEL f1 =====
SFO1 399.9015543 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

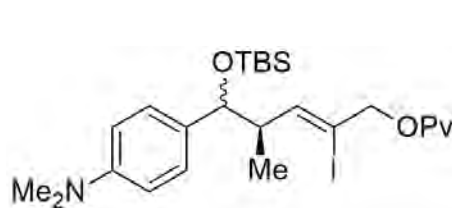
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 399.9016 MHz
FIDRES 31.835779 Hz
SW 10.190 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.9000100 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.8999774 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





NAME I-PK-27DRY
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180111
Time_ 4.38
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgssp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 296.1 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 0.0001910 sec

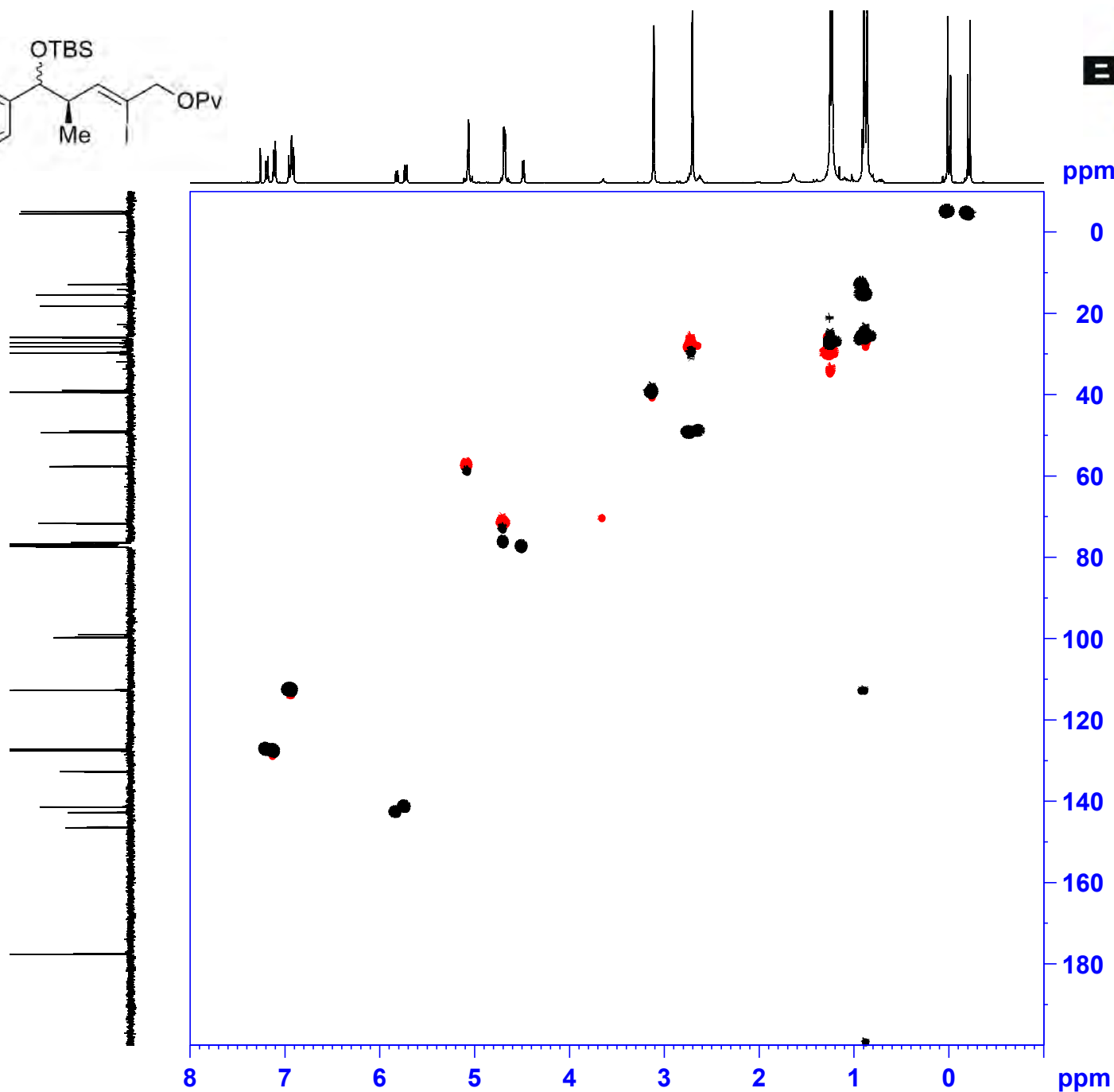
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
PZ8 0 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SFOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SFOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000000 MHz
WDW QSINE
GB



Mass Spectrometry Result Sheet

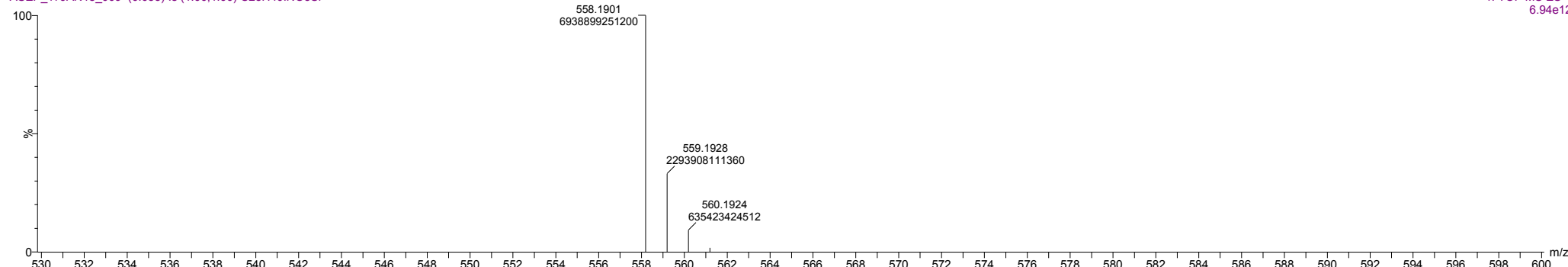
Waters Xevo G2-XS QToF Mass Spectrometer

12-01-2018

I-PK-27

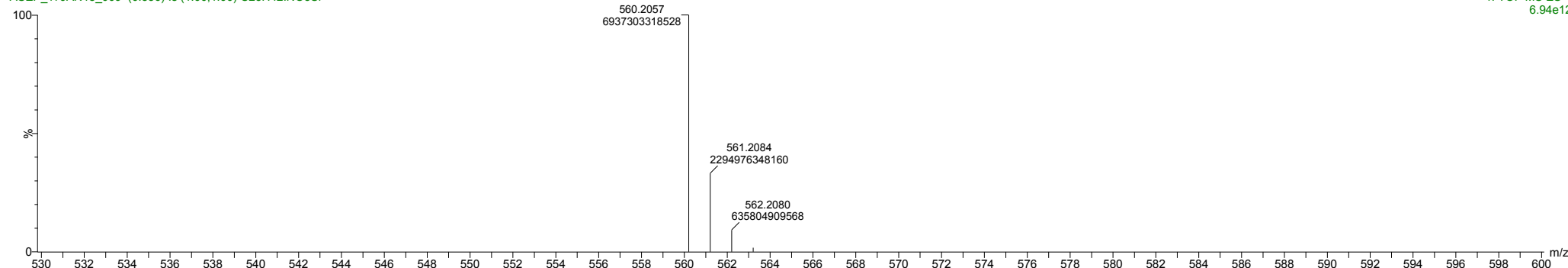
ASEP_17JAN18_009 (0.053) Is (1.00,1.00) C₂₅H₄₀INO₃Si

1: TOF MS ES+
6.94e12



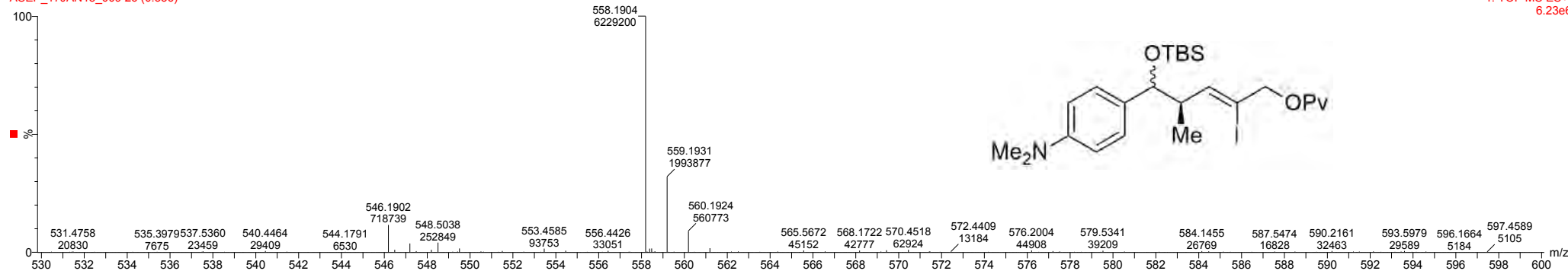
ASEP_17JAN18_009 (0.536) Is (1.00,1.00) C₂₅H₄₂INO₃Si

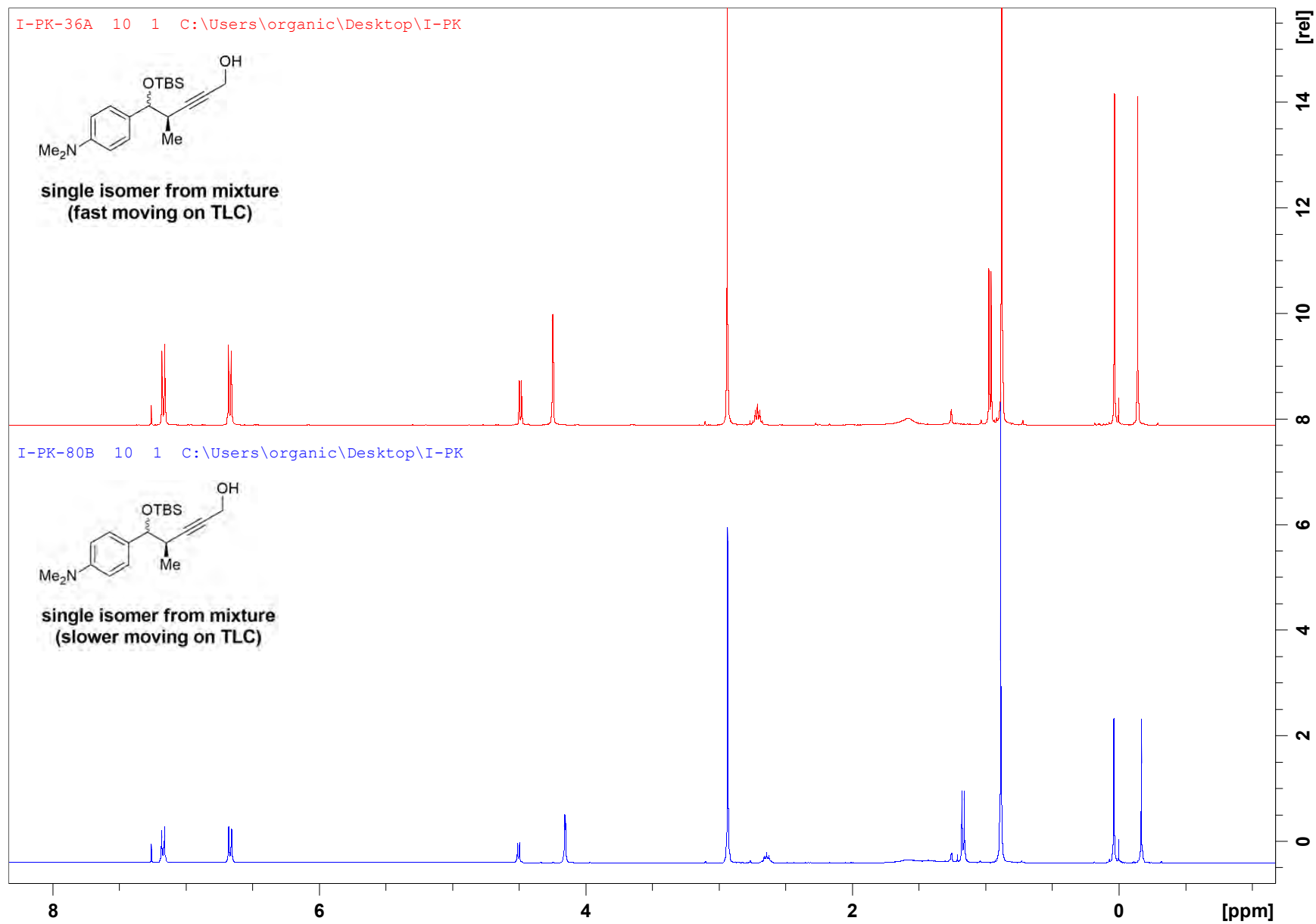
1: TOF MS ES+
6.94e12



ASEP_17JAN18_009 26 (0.536)

1: TOF MS ES+
6.23e6





7.260
7.180
7.158
6.682
6.660

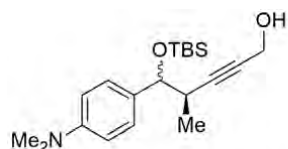
4.499
4.482
4.250
4.246

2.939
2.734
2.729
2.724
2.717
2.712
2.707
2.700
2.695
2.690

1.585

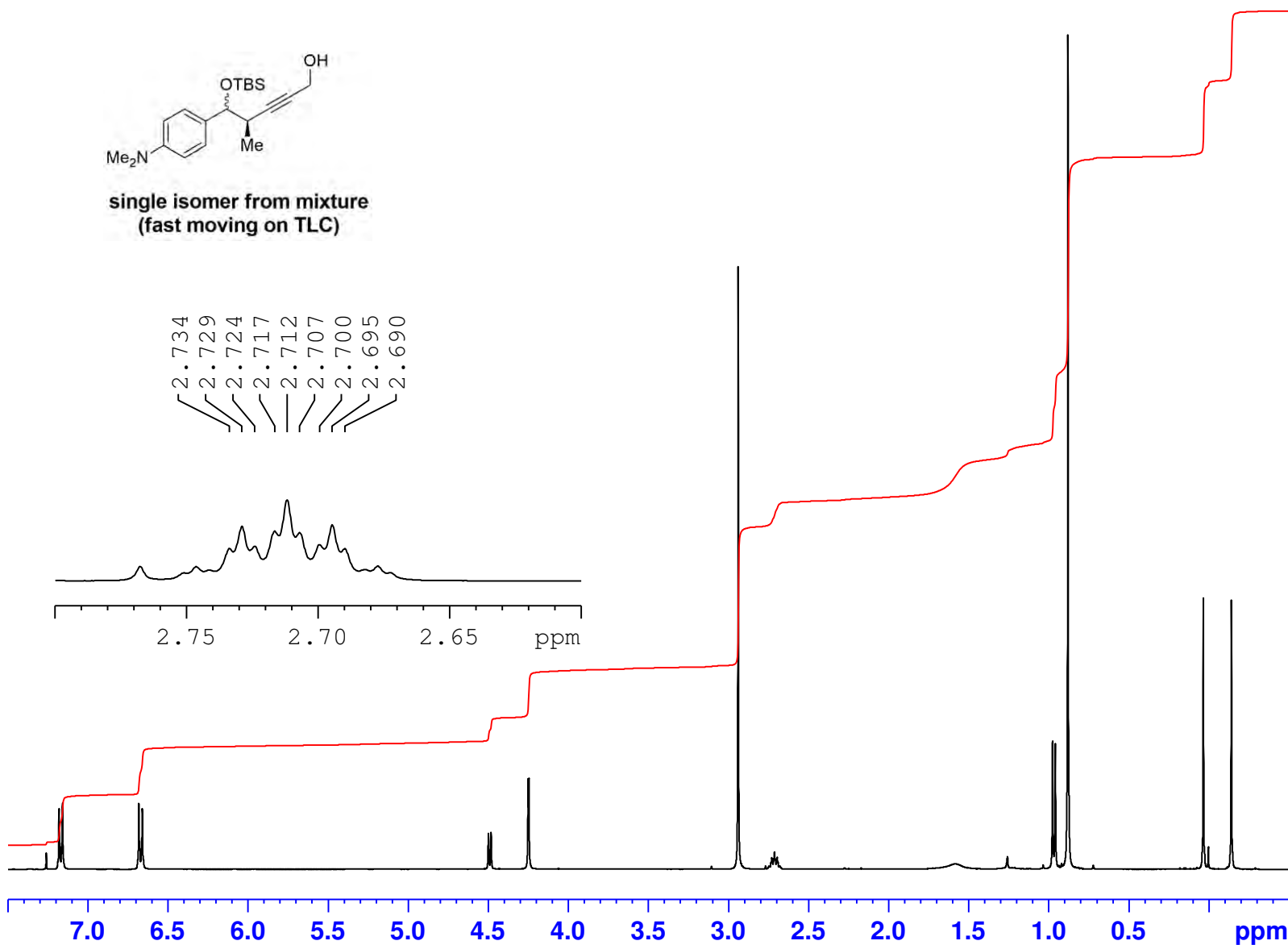
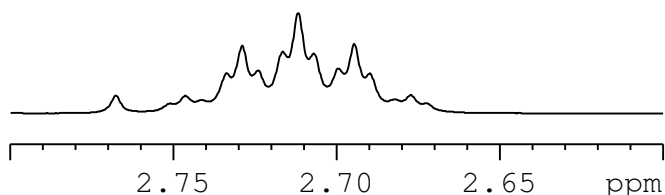
0.975
0.958
0.879

0.033
0.002
-0.141



single isomer from mixture
(fast moving on TLC)

2.734
2.729
2.724
2.717
2.712
2.707
2.700
2.695
2.690



Current Data Parameters
NAME I-PK-36A
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180117
Time 16.22
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 297.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000097 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

7.180
7.158

6.682
6.660

4.499
4.482

4.250
4.246

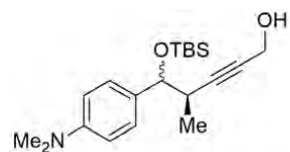


Current Data Parameters
NAME I-PK-36A
EXPNO 10
PROCNO 1

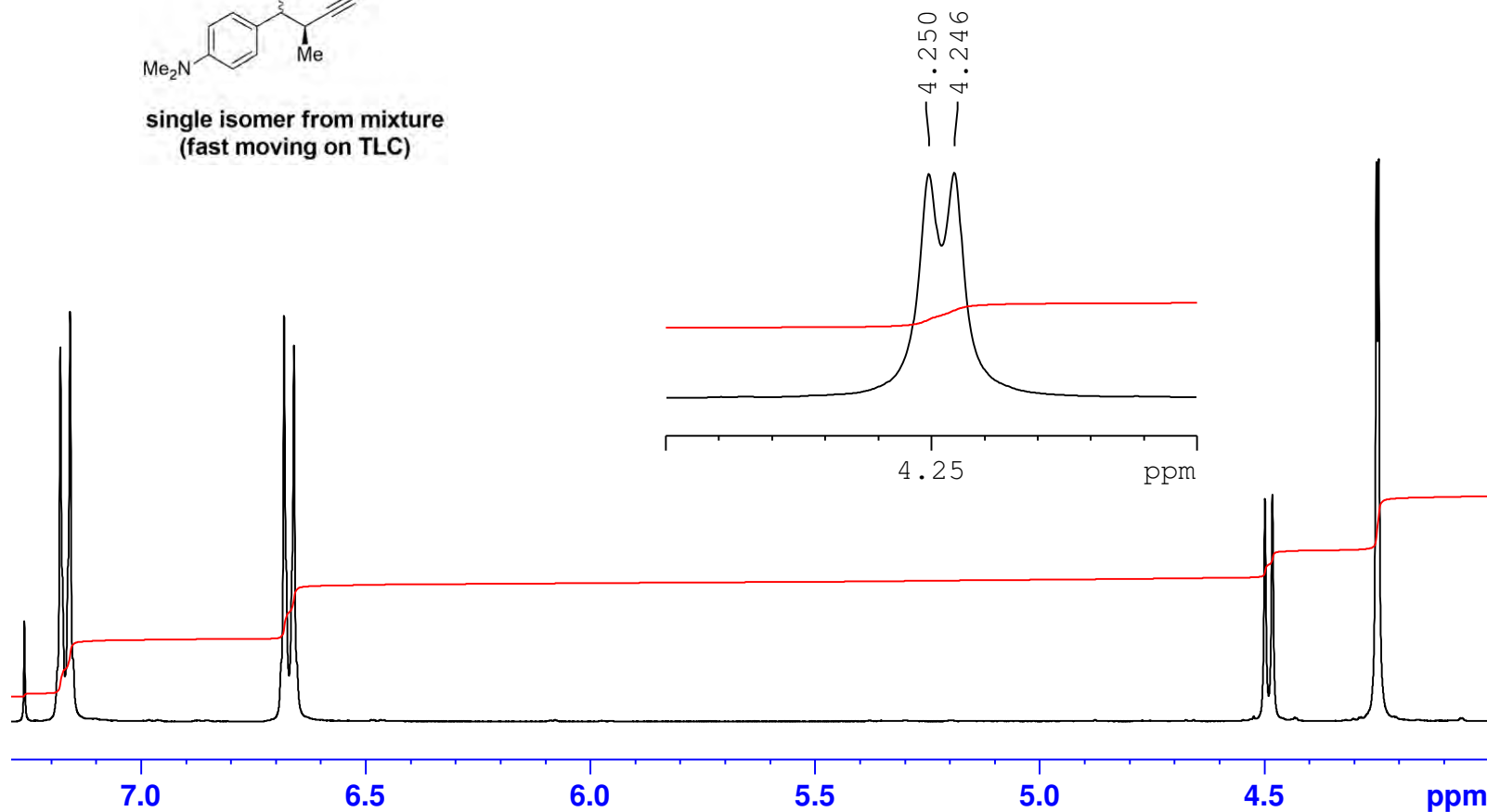
F2 - Acquisition Parameters
Date_ 20180117
Time 16.22
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 297.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000097 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



single isomer from mixture
(fast moving on TLC)



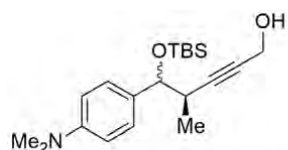


Current Data Parameters
 NAME I-PK-36A
 EXPNO 10
 PROCNO 1

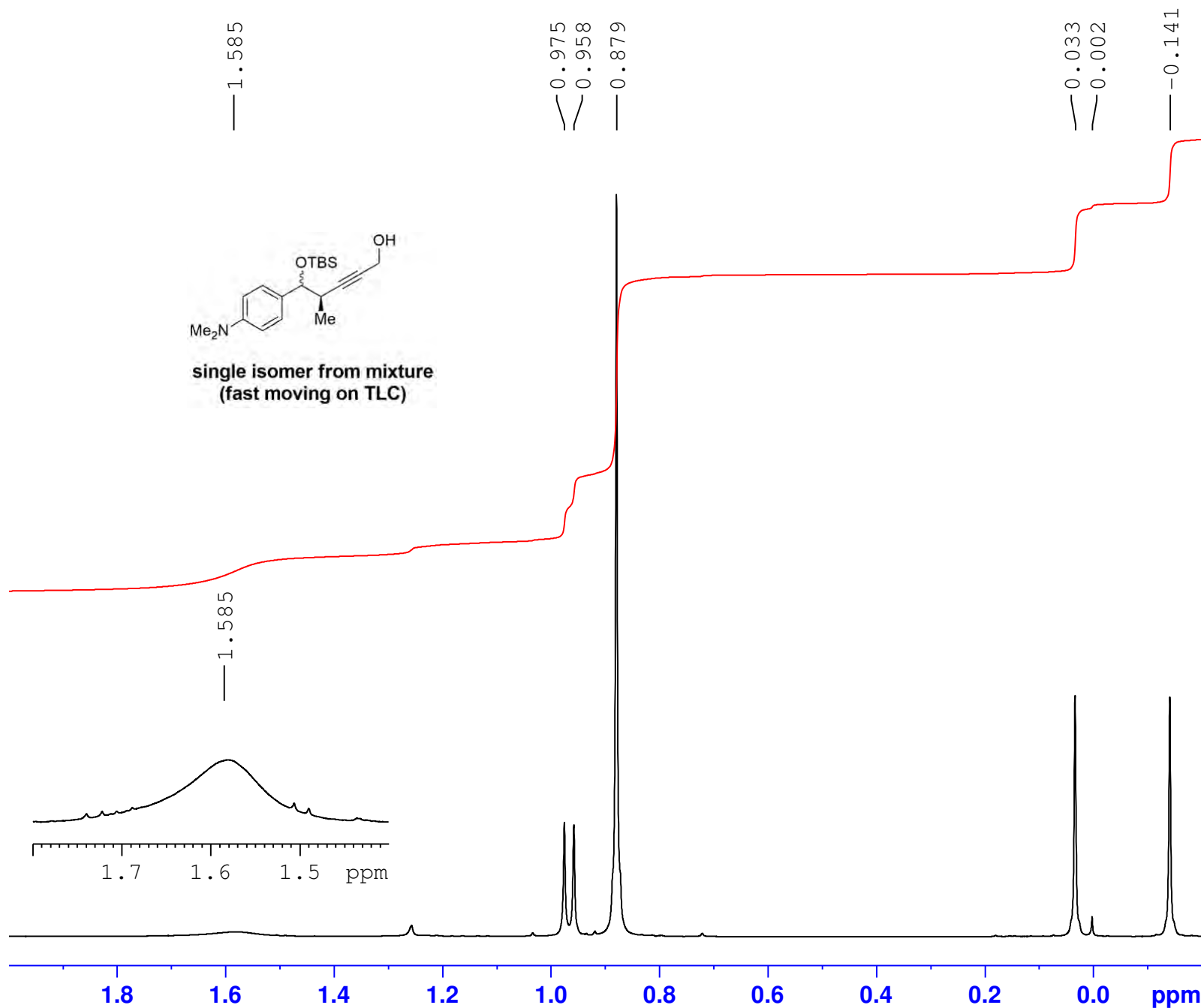
F2 - Acquisition Parameters
 Date_ 20180117
 Time 16.22
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 50.8
 DW 41.600 usec
 DE 9.85 usec
 TE 297.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000097 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



single isomer from mixture
 (fast moving on TLC)





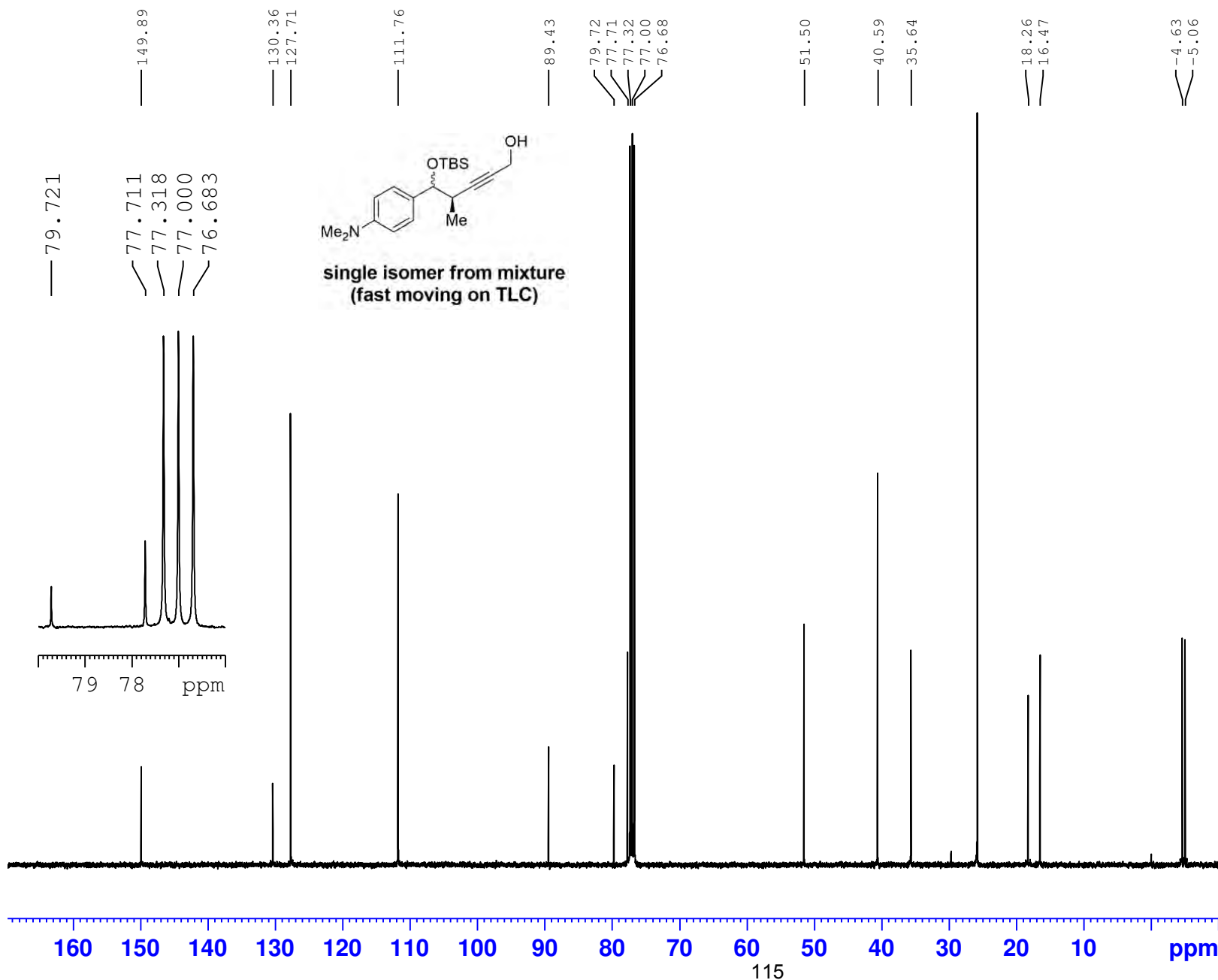
Current Data Parameters
 NAME I-PK-36A
 EXPNO 11
 PROCNO 1

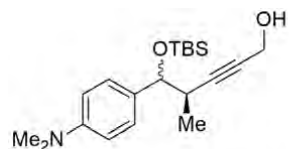
F2 - Acquisition Parameters
 Date_ 20180117
 Time 17.33
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 298.4 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

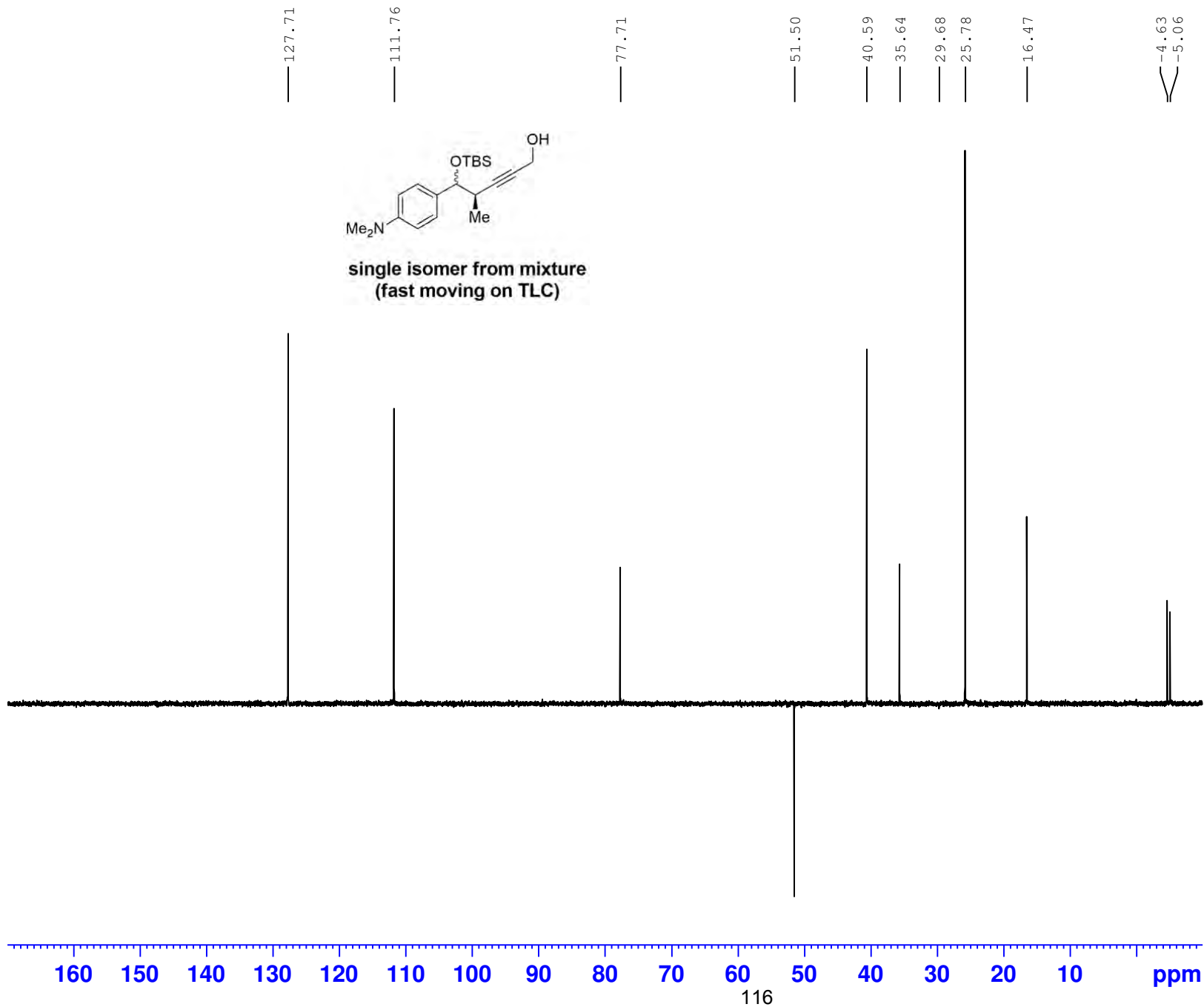
===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549386 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





single isomer from mixture
(fast moving on TLC)



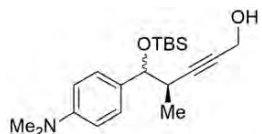
Current Data Parameters
NAME I-PK-36A
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180117
Time 17.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 297.7 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5549386 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



single isomer from mixture
(fast moving on TLC)



Current Data Parameters
NAME I-PK-36A
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180117
Time_ 17.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpmfppqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 3578.244 Hz
FIDRES 1.747190 Hz
AQ 0.2861739 sec
RG 2050
DW 139.733 usec
DE 6.50 usec
TE 297.4 K
D0 0.00000300 sec
D1 0.85786802 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00027940 sec

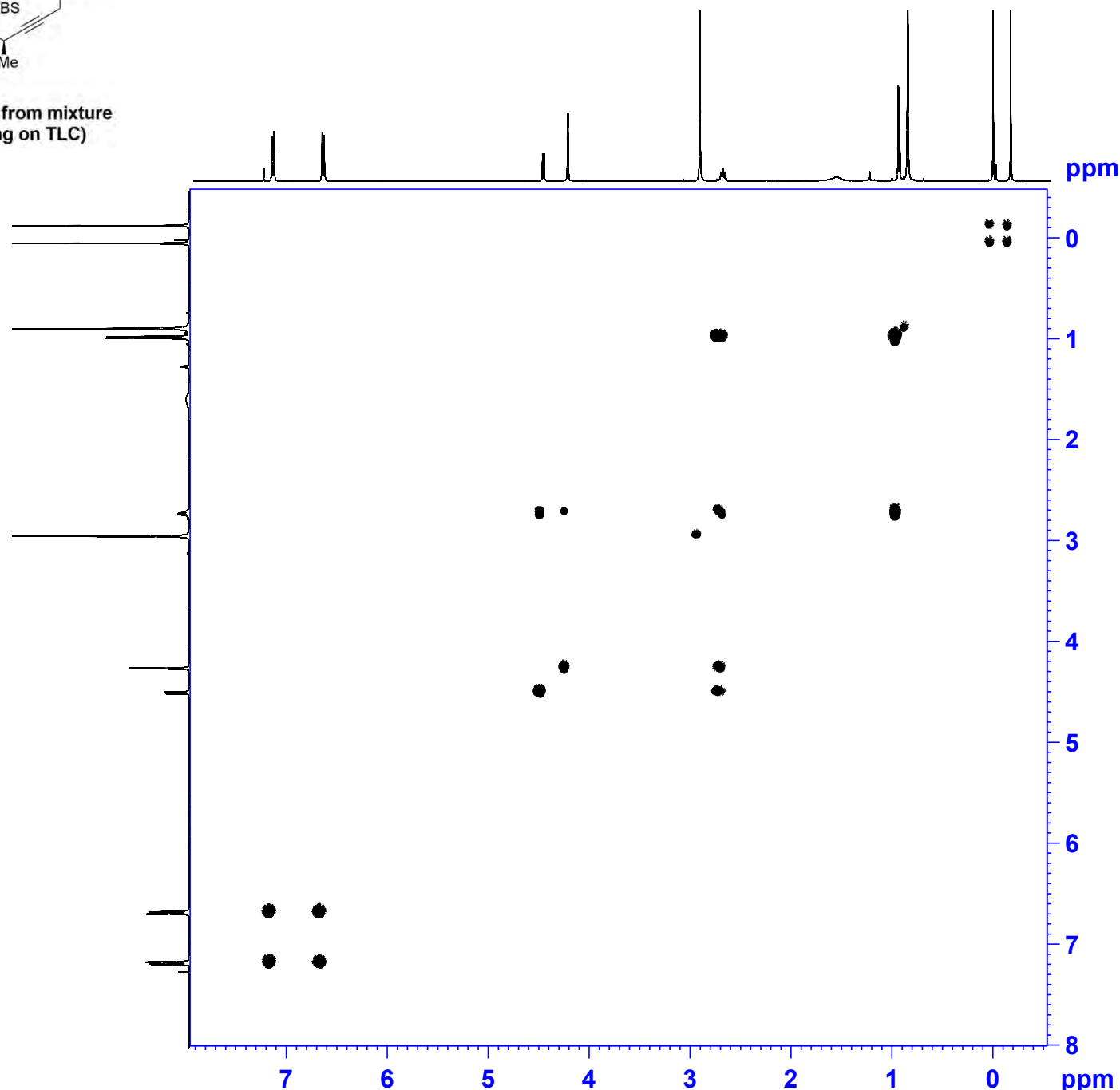
===== CHANNEL f1 =====
SF01 399.9014143 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

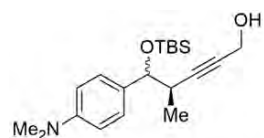
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 399.9014 MHz
FIDRES 27.961704 Hz
SW 8.950 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.9000097 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.9000097 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





single isomer from mixture
(fast moving on TLC)



Current Data Parameters
NAME I-PK-36A
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date 20180117
Time 17.59
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgpp3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 297.4 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 0.00001910 sec

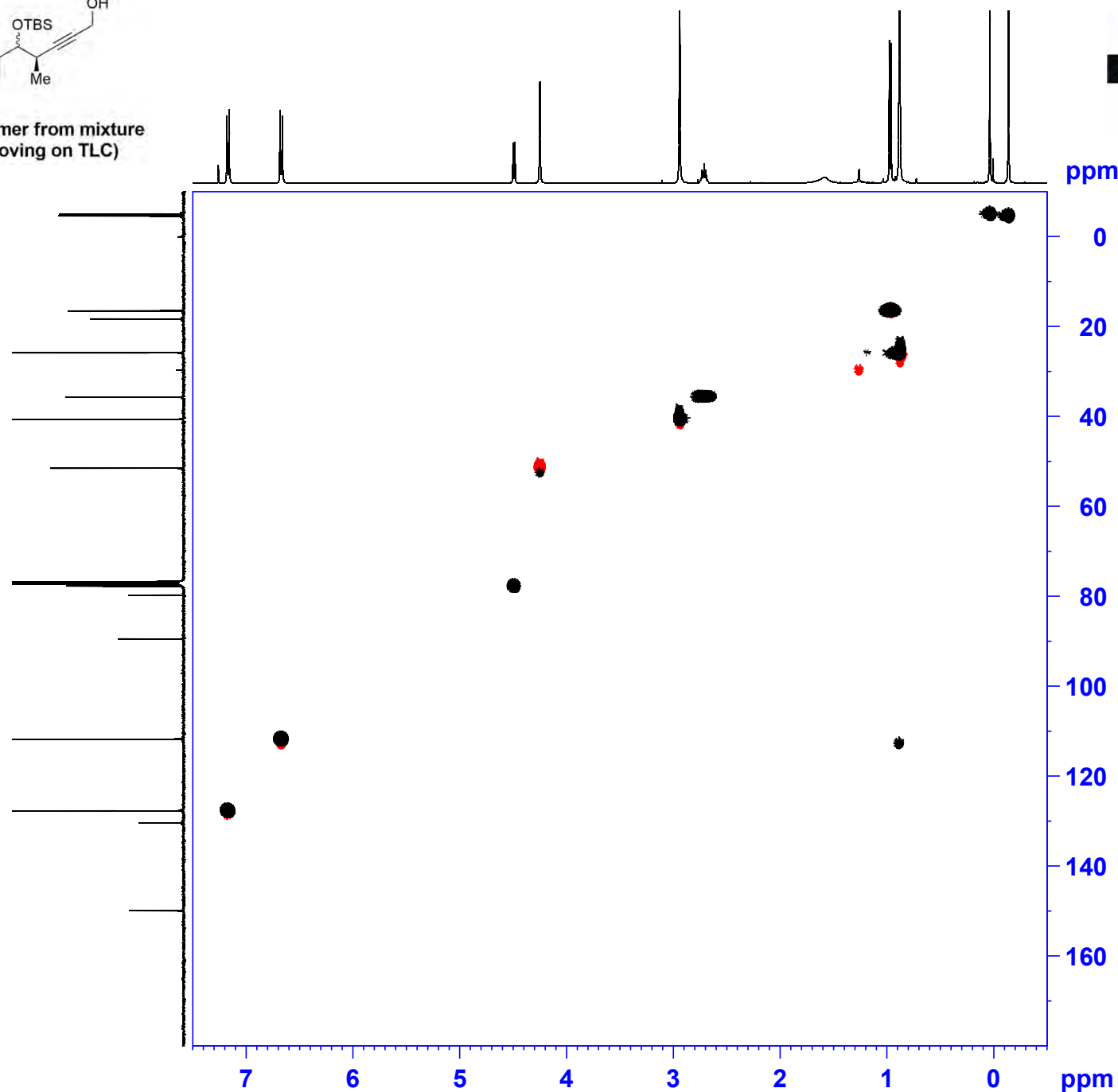
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SFOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SFOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000095 MHz
.....



Mass Spectrometry Result Sheet

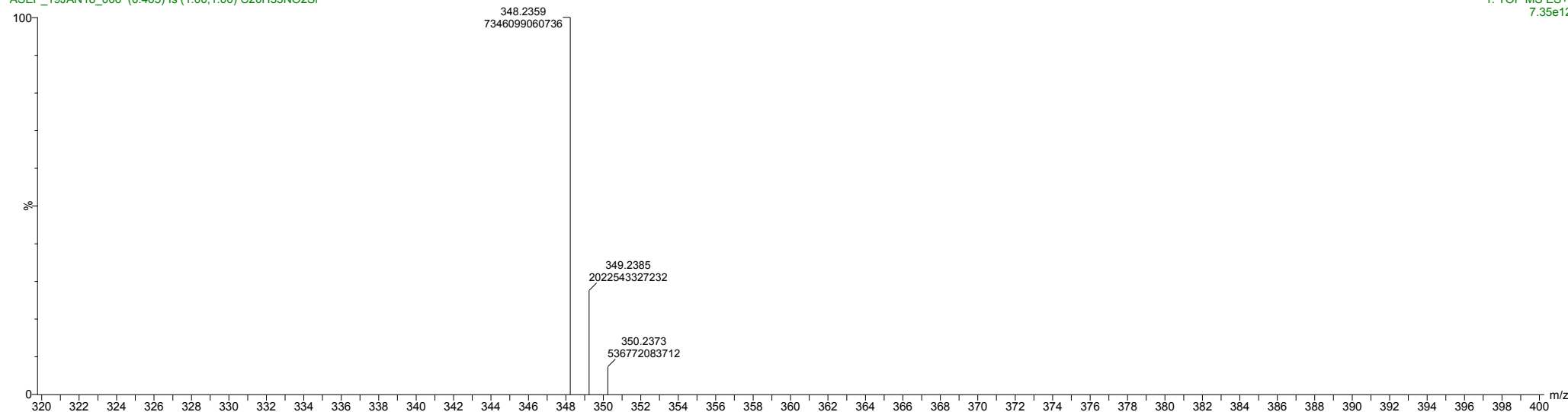
Waters Xevo G2-XS QToF Mass Spectrometer

17-01-2018

I-PK-36A

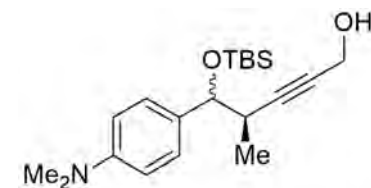
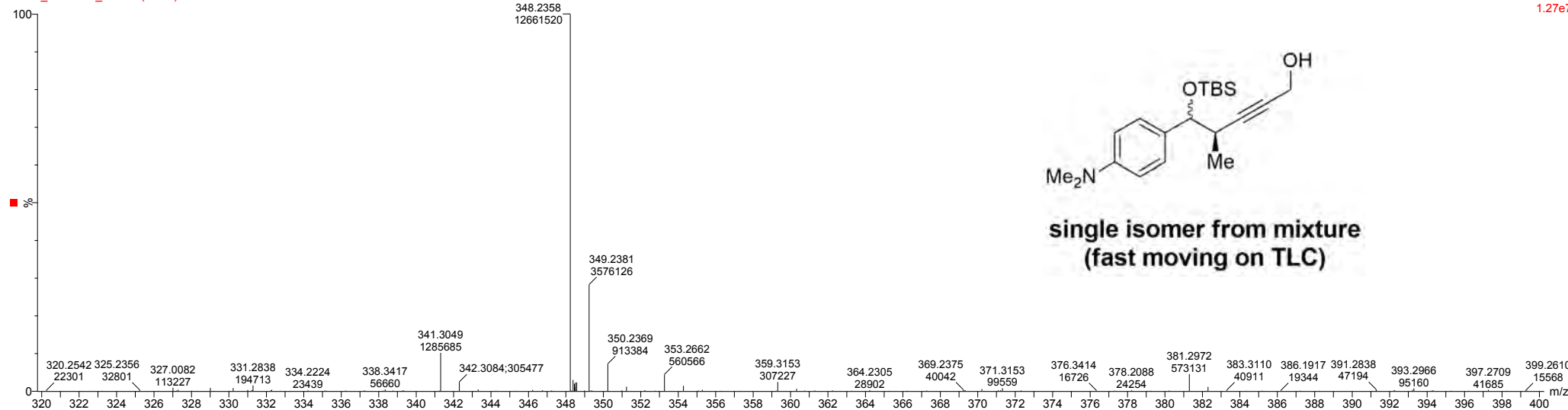
ASEP_19JAN18_006 (0.465) Is (1.00,1.00) C₂₀H₃₃NO₂Si

1: TOF MS ES+
7.35e12



ASEP_19JAN18_006 23 (0.465)

1: TOF MS ES+
1.27e7



**single isomer from mixture
(fast moving on TLC)**

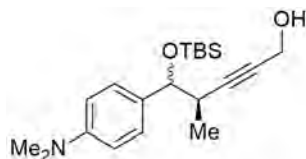
7.180
7.167
7.163
6.681
6.676
6.664
6.659

4.515
4.499
4.160
4.155

2.936
2.667
2.662
2.657
2.650
2.645
2.640
2.633
2.628
2.623

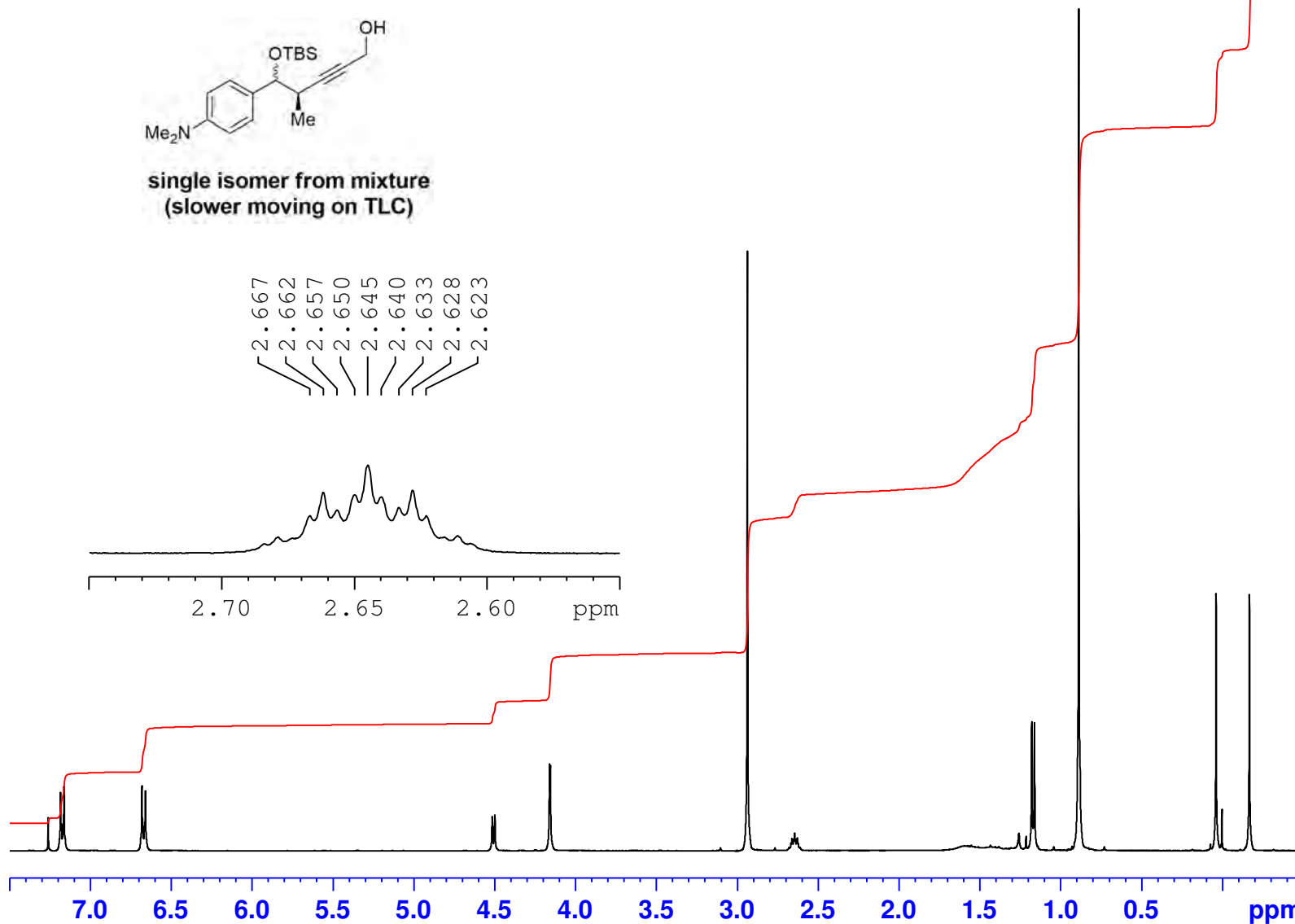
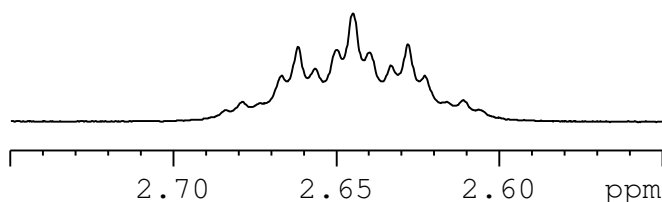
— 1.598
1.178
1.161
0.887
0.880

0.038
0.002
-0.168



single isomer from mixture
(slower moving on TLC)

2.667
2.662
2.657
2.650
2.645
2.640
2.633
2.628
2.623



Current Data Parameters
NAME I-PK-80B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190515
Time 12.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

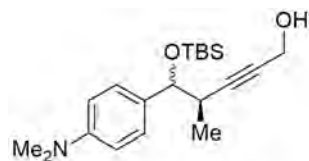
F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

7.260
7.184
7.180
7.167
7.163

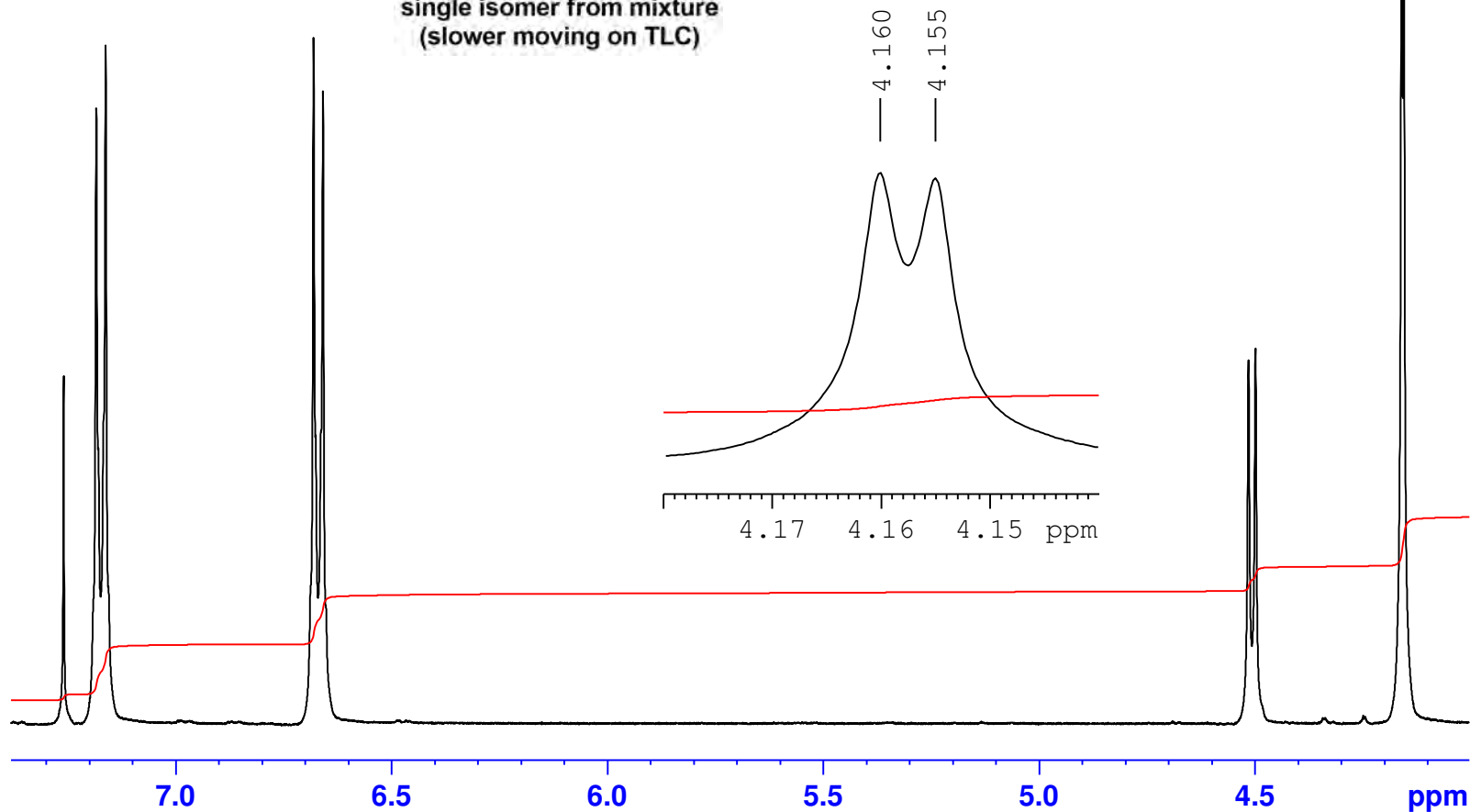
6.681
6.676
6.664
6.659

4.515
4.499

4.160
4.155



single isomer from mixture
(slower moving on TLC)



Current Data Parameters
NAME I-PK-80B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190515
Time 12.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

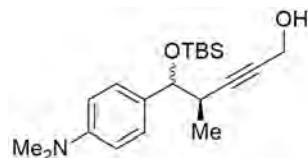


Current Data Parameters
NAME I-PK-80B
EXPNO 10
PROCNO 1

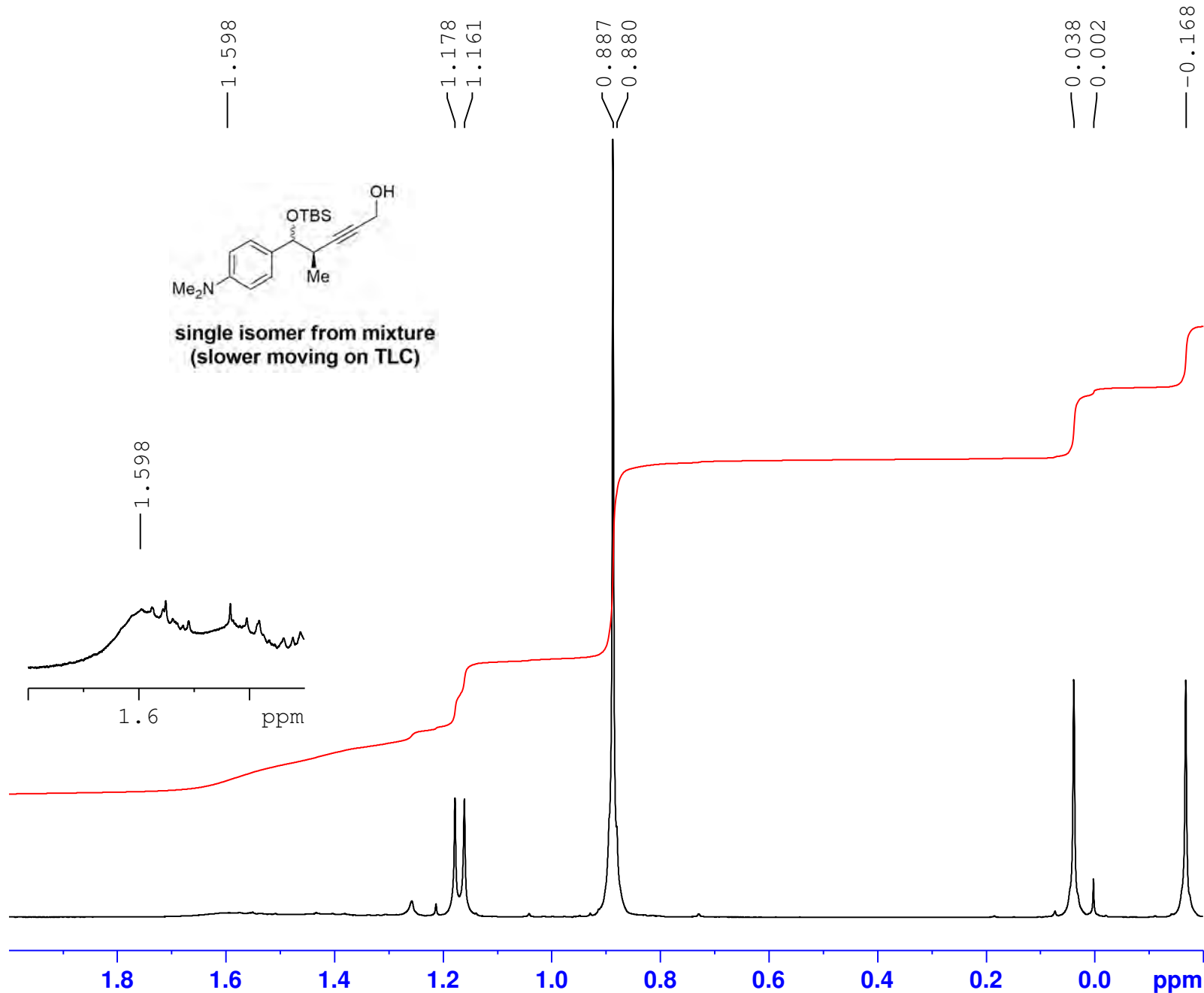
F2 - Acquisition Parameters
Date_ 20190515
Time 12.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



single isomer from mixture
(slower moving on TLC)





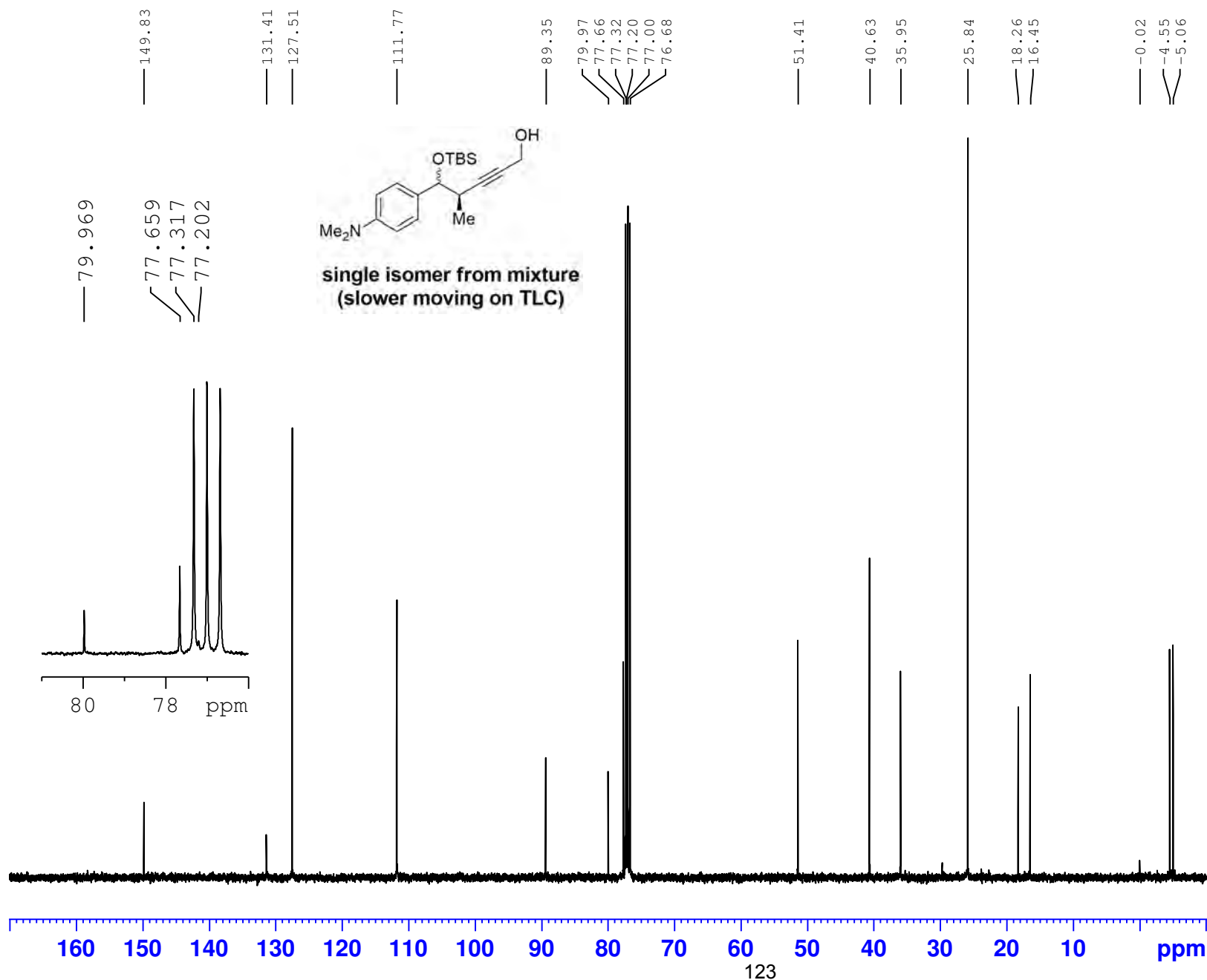
Current Data Parameters
 NAME I-PK-80B
 EXPNO 21
 PROCNO 1

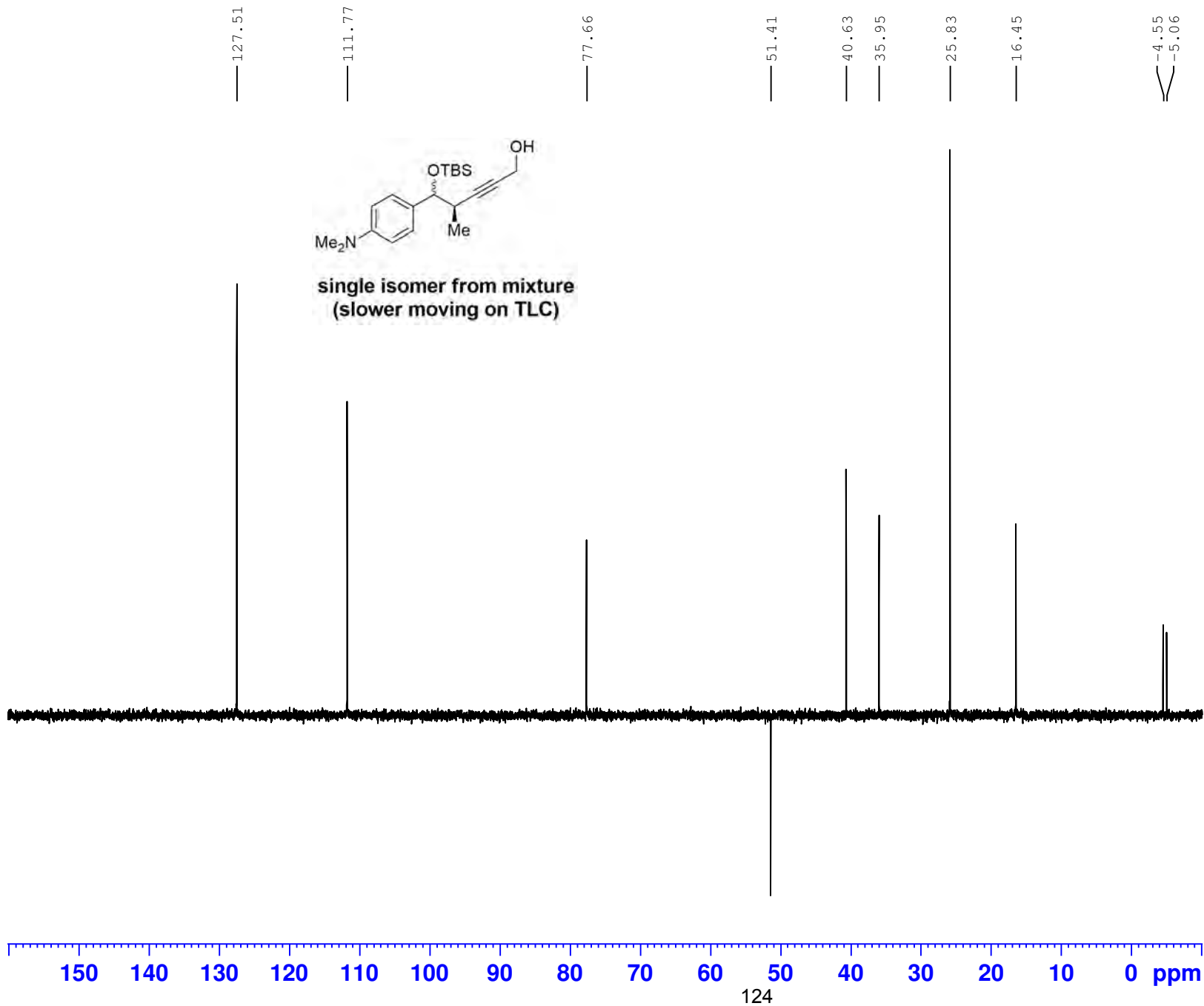
F2 - Acquisition Parameters
 Date_ 20190516
 Time 9.15
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549363 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





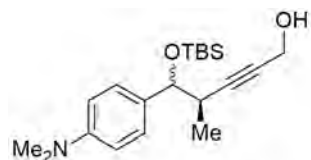
Current Data Parameters
 NAME I-PK-80B
 EXPNO 22
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190516
 Time 9.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549361 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



single isomer from mixture
(slower moving on TLC)



Current Data Parameters
NAME I-PK-80B
EXPNO 23
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190516
Time_ 9.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpmfppqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 3556.188 Hz
FIDRES 1.736420 Hz
AQ 0.2879488 sec
RG 2050
DW 140.600 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.85581988 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00028120 sec

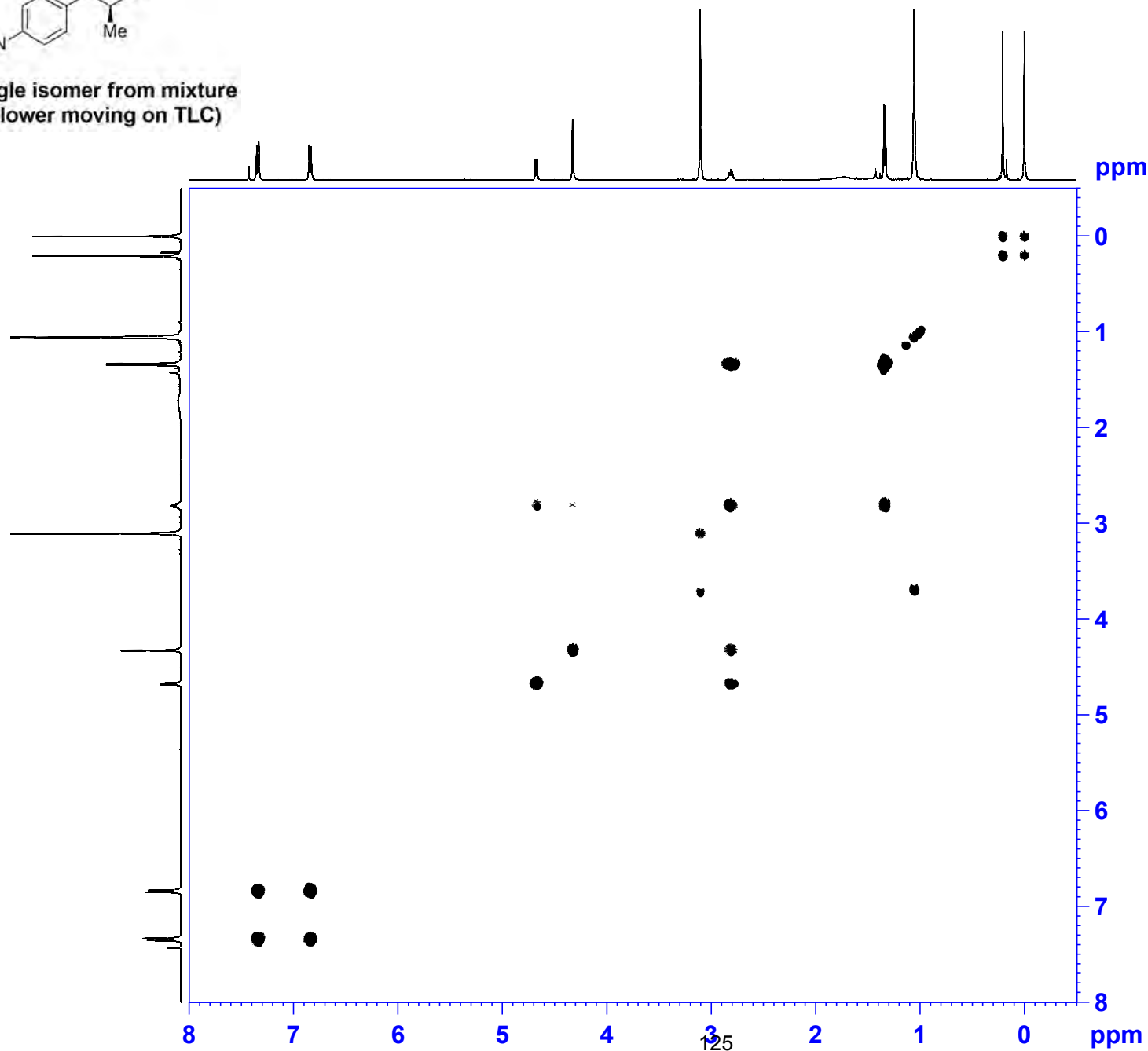
===== CHANNEL f1 =====
SF01 399.9014201 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

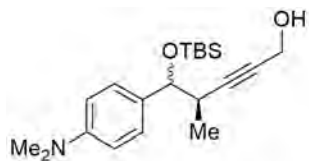
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 399.9014 MHz
FIDRES 27.782717 Hz
SW 8.893 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.8999424 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.8999424 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





single isomer from mixture
(slower moving on TLC)



Current Data Parameters
NAME I-PK-80B
EXPNO 24
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190516
Time 9.40
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgsp.3
TD 1024
SOLVENT CDC13
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.0000000
DO 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.03000000 sec
D16 0.00020000 sec
D21 0.00360000 sec
IN0 0.00001910 sec

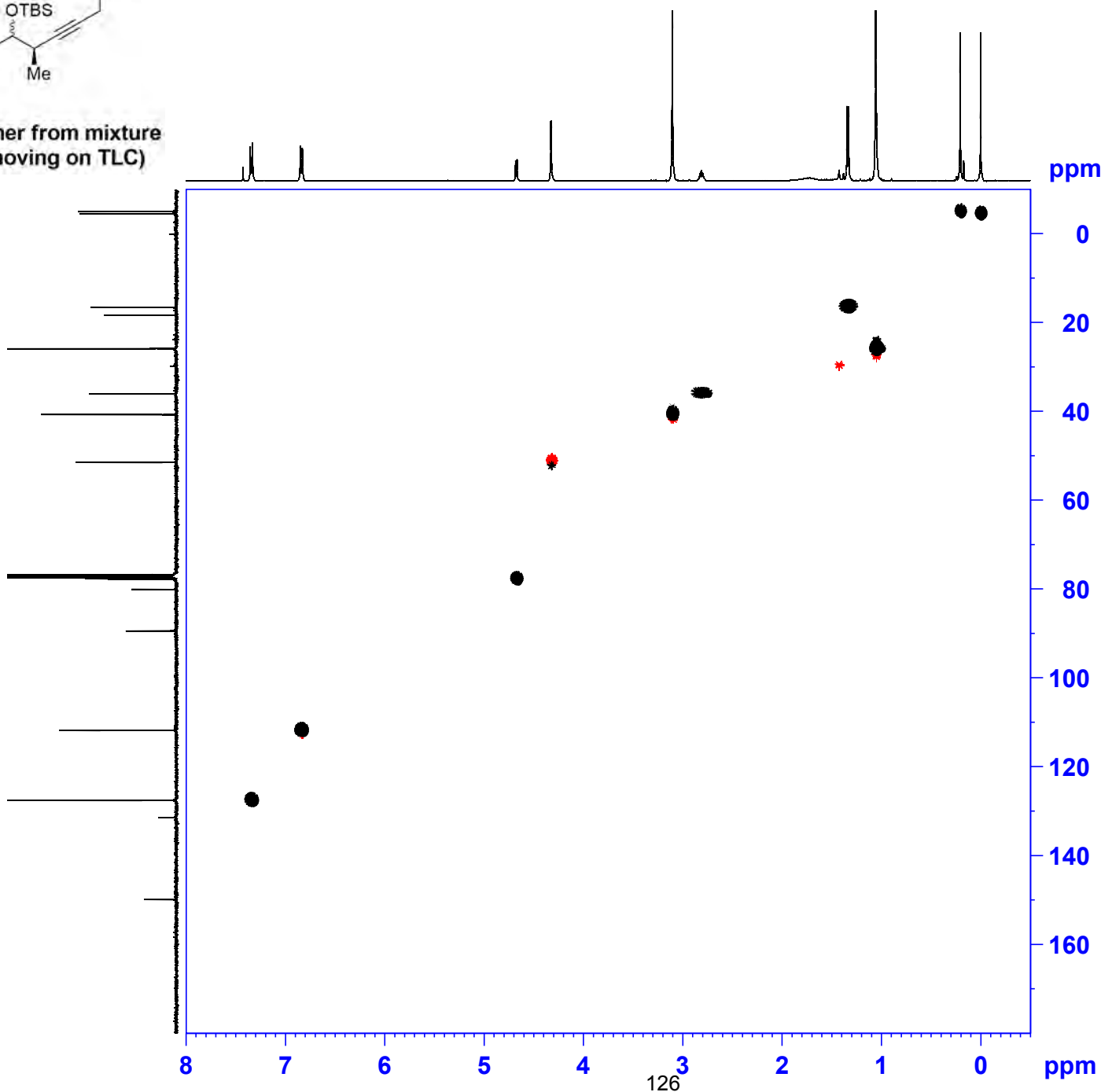
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

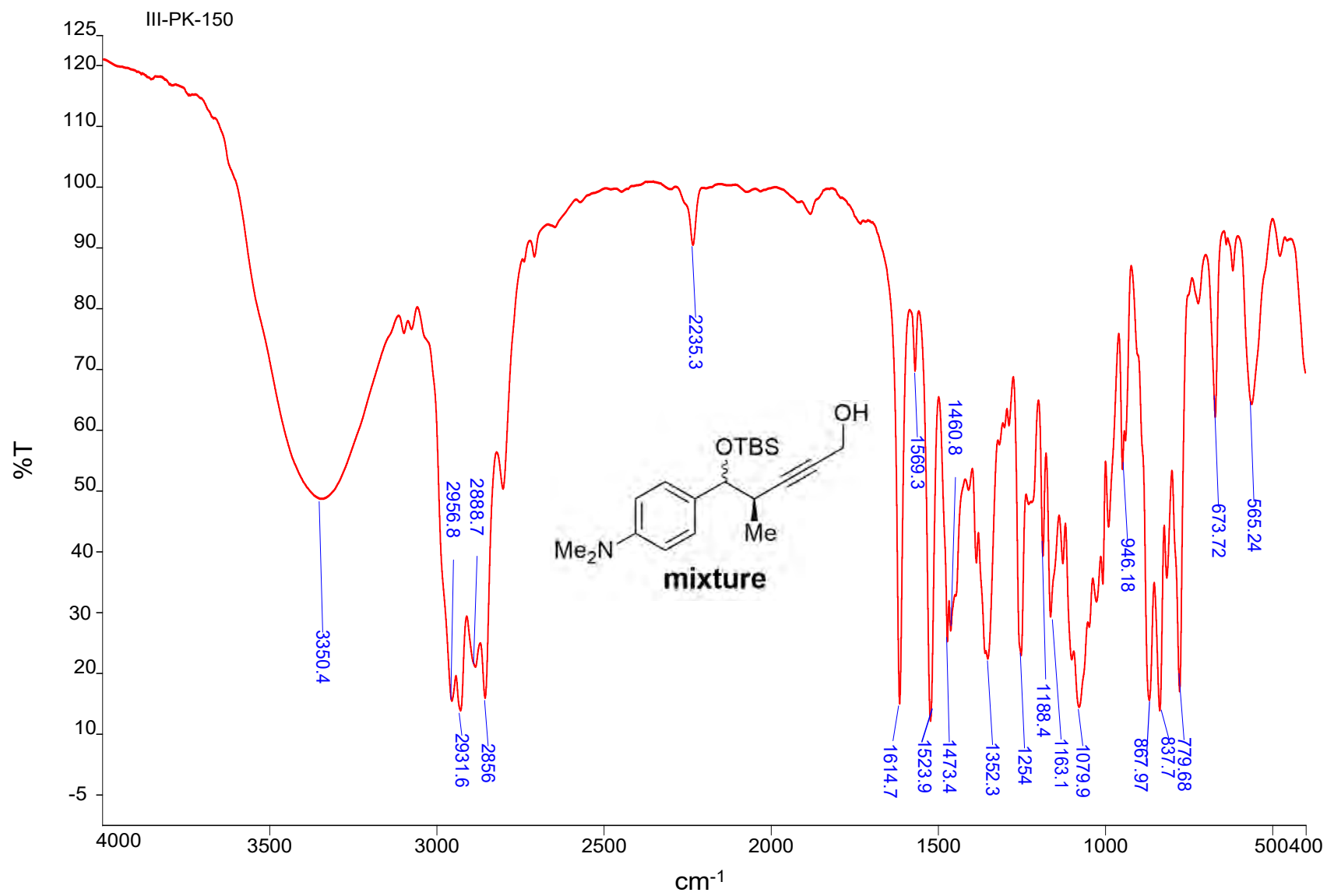
===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xf11.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

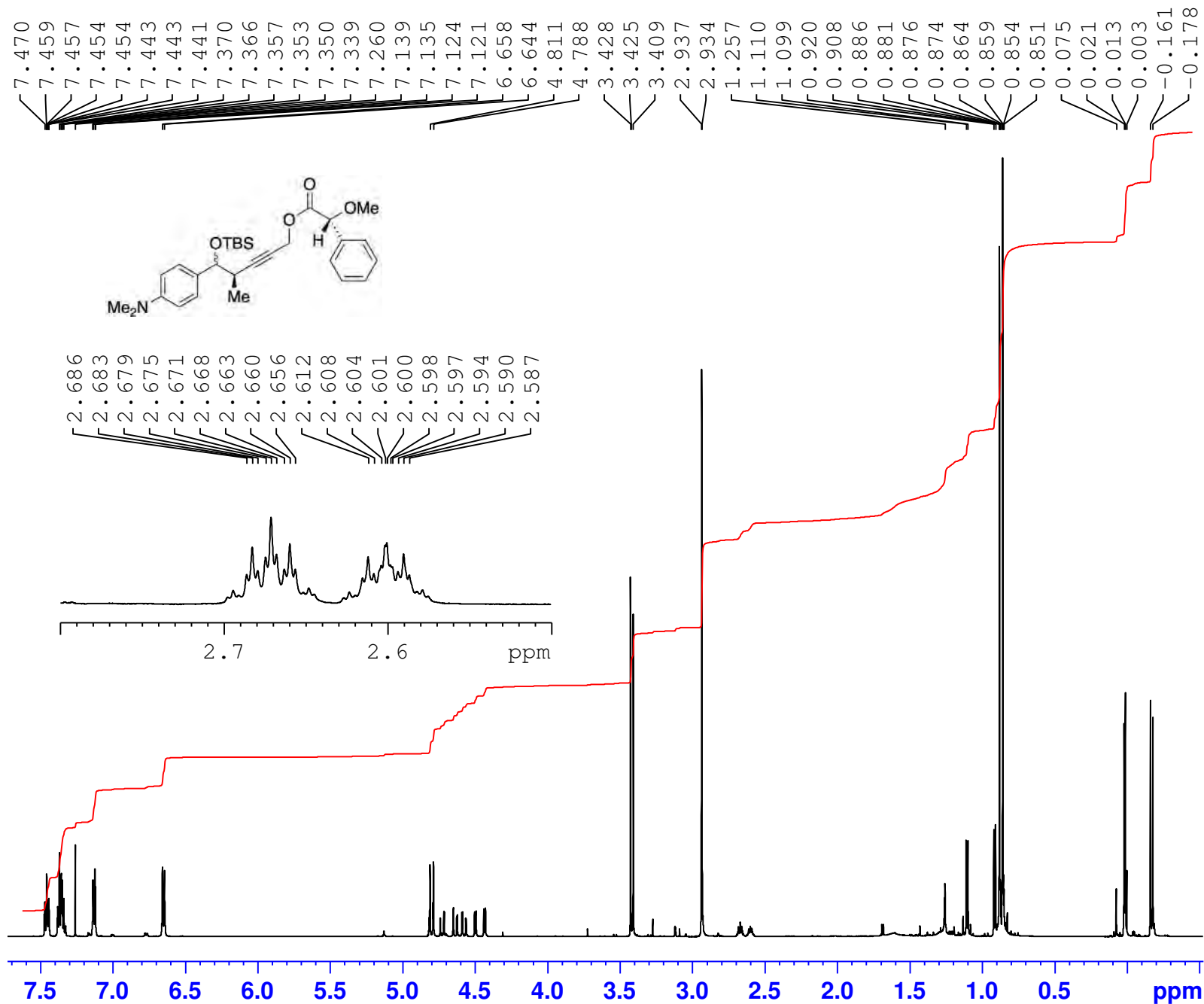
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.8999432 MHz
wrtw 16384





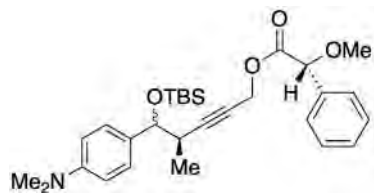


Current Data Parameters
 NAME III-PK-68
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191104
 Time 15.49
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 7.60 usec
 TE 297.3 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300145 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

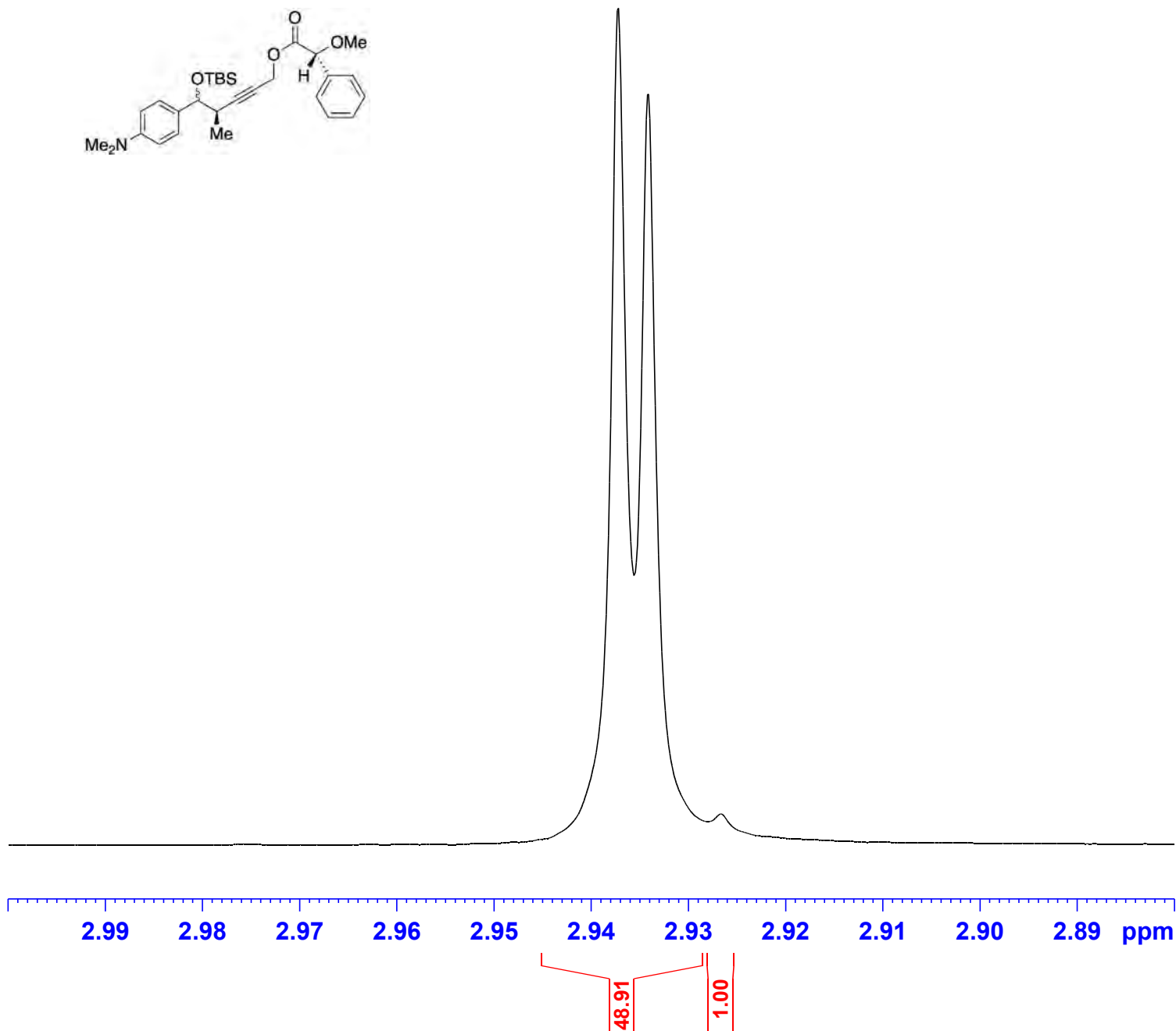


Current Data Parameters
 NAME III-PK-68
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191104
 Time_ 15.49
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 7.60 usec
 TE 297.3 K
 D1 0.1000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.6000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300146 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



7.470
7.459
7.457
7.454
7.454
7.443
7.443
7.441
7.381
7.370
7.366
7.357
7.353
7.350
7.348
7.339
7.260
7.139
7.135
7.124
7.121

6.658
6.644



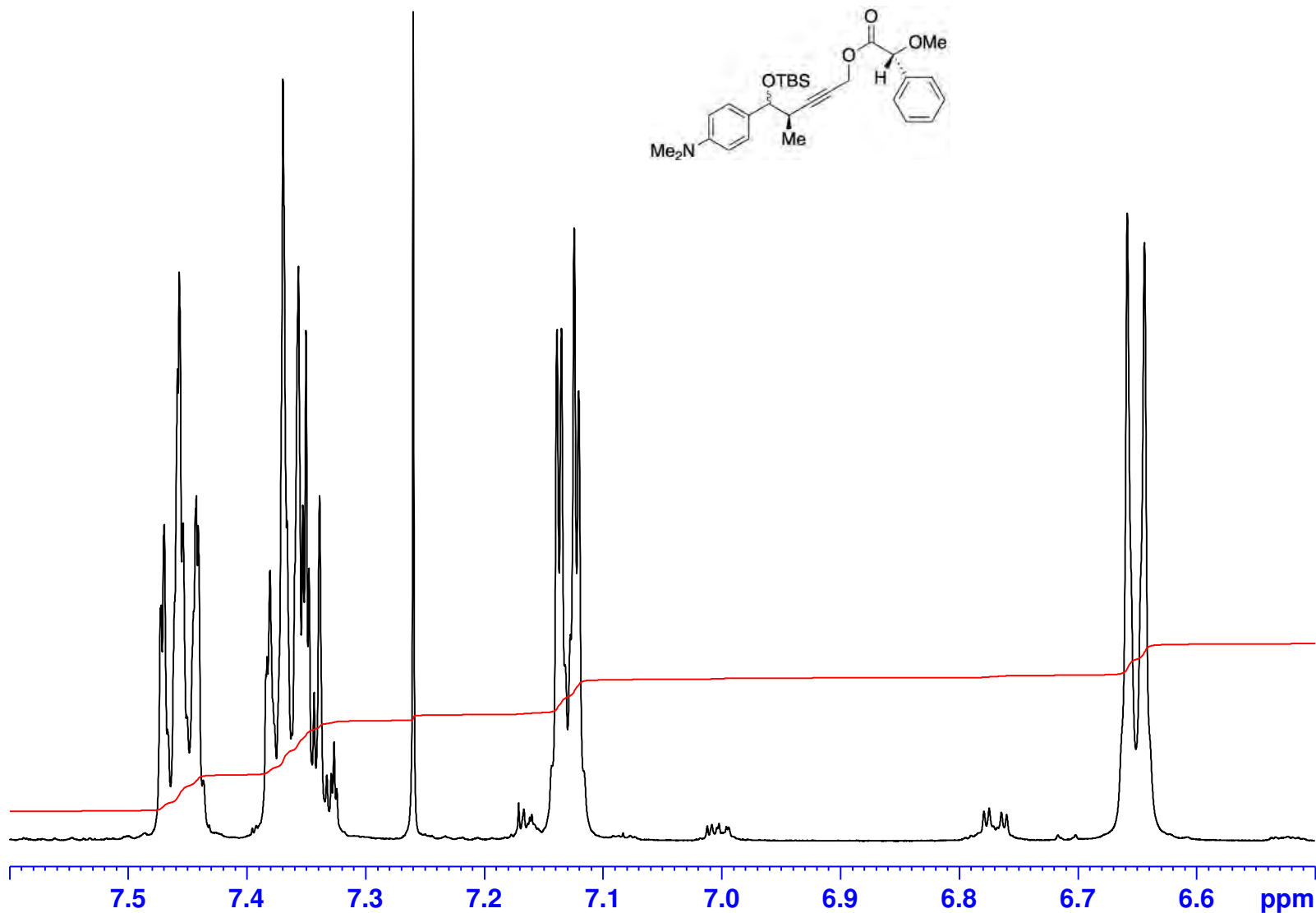
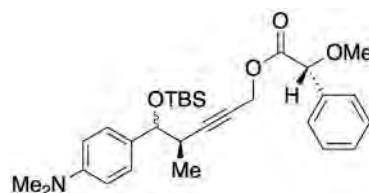
Current Data Parameters
NAME III-PK-68
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20191104
Time 15.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 49.63
DW 27.733 usec
DE 7.60 usec
TE 297.3 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300145 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



4.817
 4.811
 4.791
 4.788
 4.742
 4.739
 4.717
 4.713
 4.653
 4.649
 4.627
 4.624
 4.591
 4.587
 4.566
 4.562
 4.504
 4.494
 4.440
 4.429



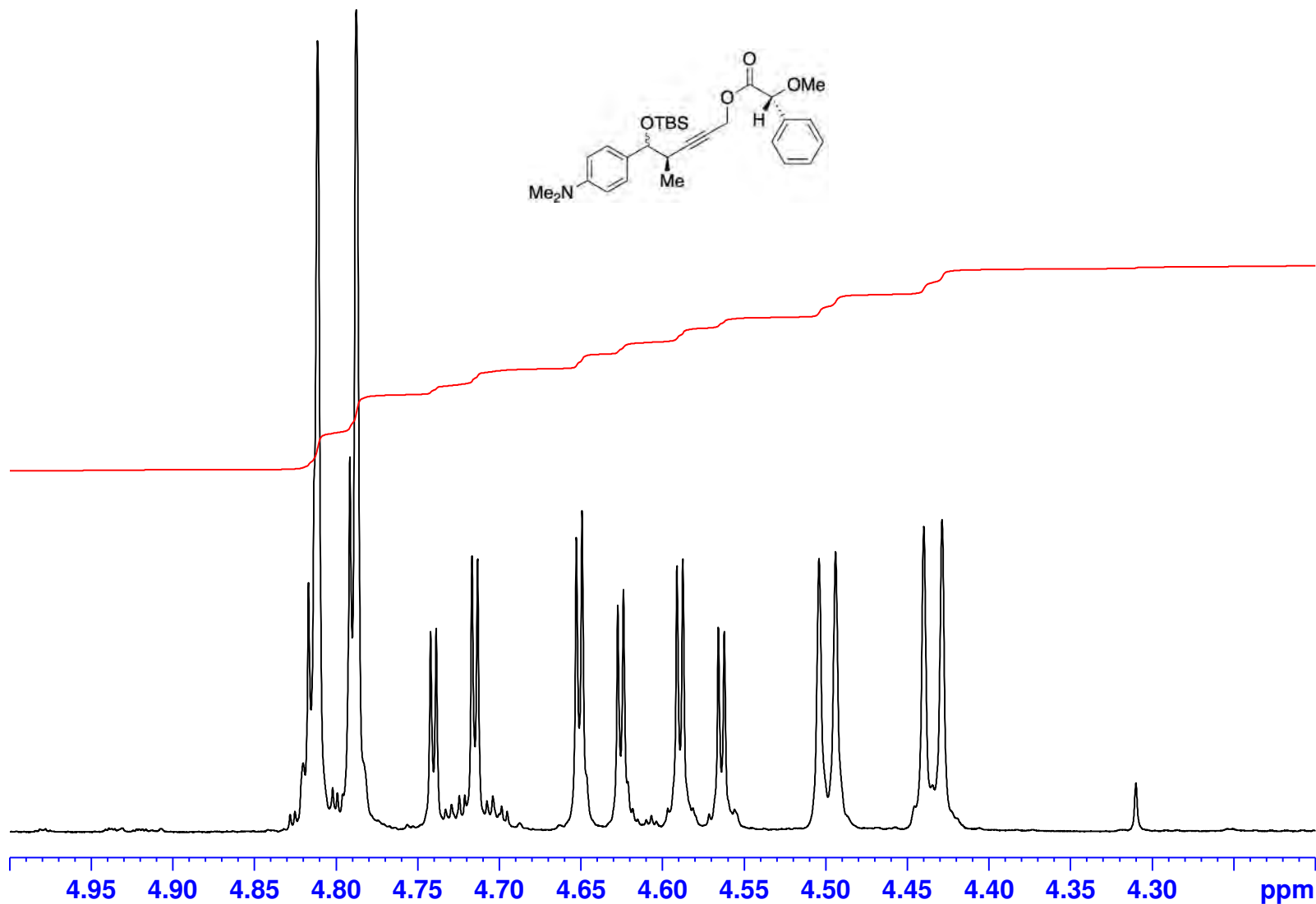
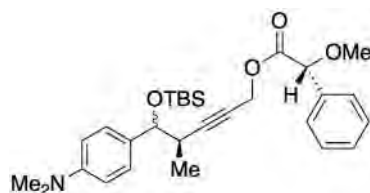
Current Data Parameters
 NAME III-PK-68
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20191104
 Time 15.49
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 49.63
 DW 27.733 usec
 DE 7.60 usec
 TE 297.3 K
 D1 0.10000000 sec
 TD0 1

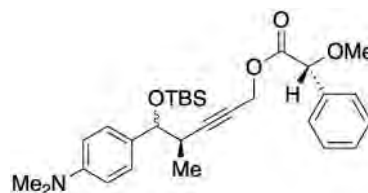
===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300145 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



— 1.110
— 1.099

— 0.920
— 0.908
— 0.886
— 0.881
— 0.876
— 0.874
— 0.864
— 0.859
— 0.854
— 0.851

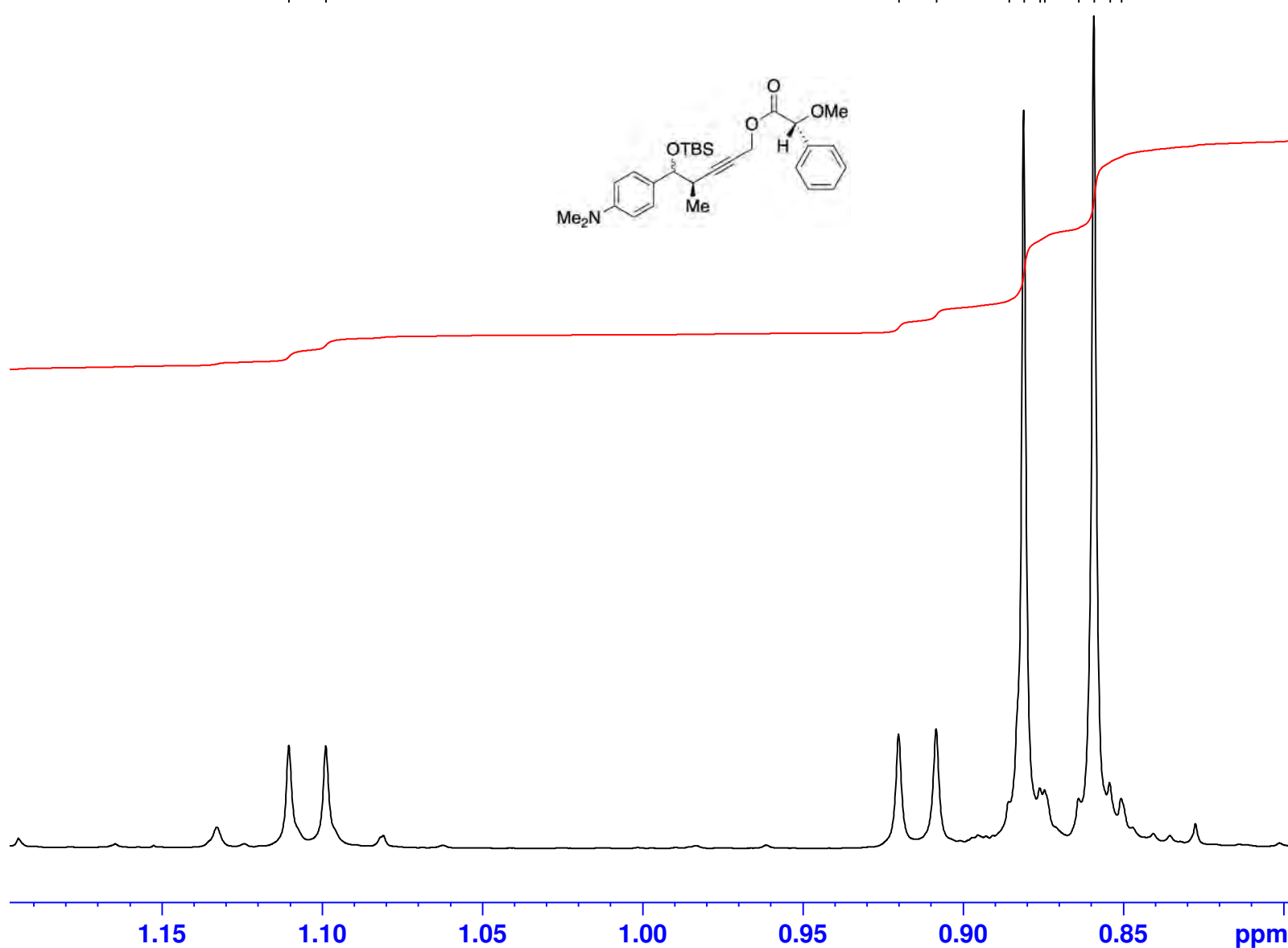


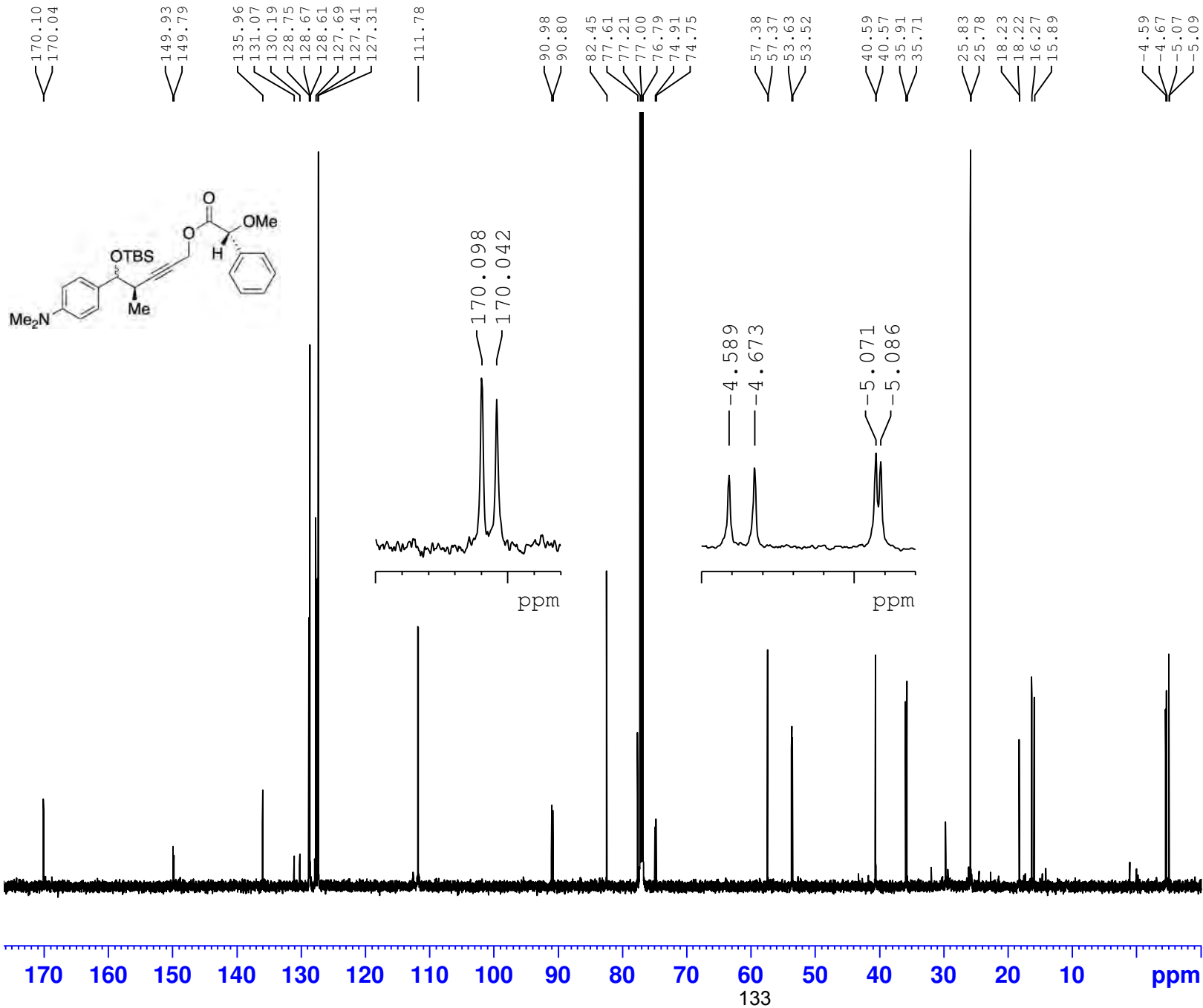
Current Data Parameters
NAME III-PK-68
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191104
Time 15.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 49.63
DW 27.733 usec
DE 7.60 usec
TE 297.3 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300145 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
NAME III-PK-68
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191104
Time 16.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 37500.000 Hz
FIDRES 0.315010 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 7.73 usec
TE 299.3 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 150.9194058 MHz
NUC1 13C
P1 11.80 usec
PLW1 85.00000000 W

===== CHANNEL f2 =====
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 80.00 usec
PLW2 27.00000000 W
PLW12 0.43891999 W
PLW13 0.28090999 W

F2 - Processing parameters
SI 131072
SF 150.9028110 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



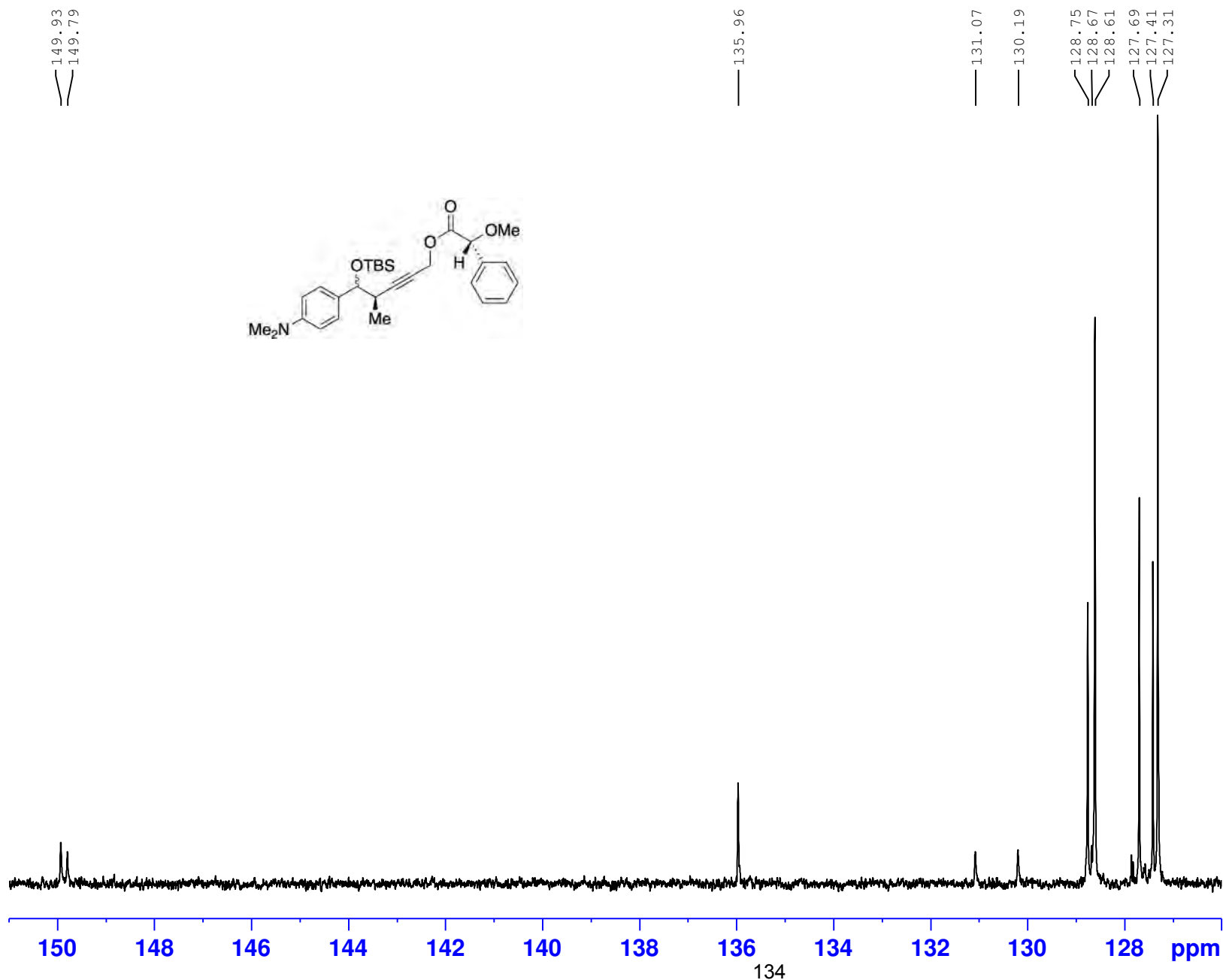
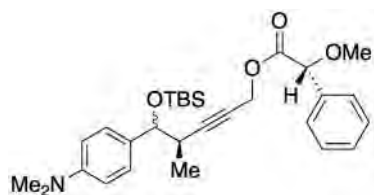
Current Data Parameters
NAME III-PK-68
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191104
Time 16.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 37500.000 Hz
FIDRES 0.315010 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 7.73 usec
TE 299.3 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 150.9194058 MHz
NUC1 13C
P1 11.80 usec
PLW1 85.00000000 W

===== CHANNEL f2 =====
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 80.00 usec
PLW2 27.00000000 W
PLW12 0.43891999 W
PLW13 0.28090999 W

F2 - Processing parameters
SI 131072
SF 150.9028110 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





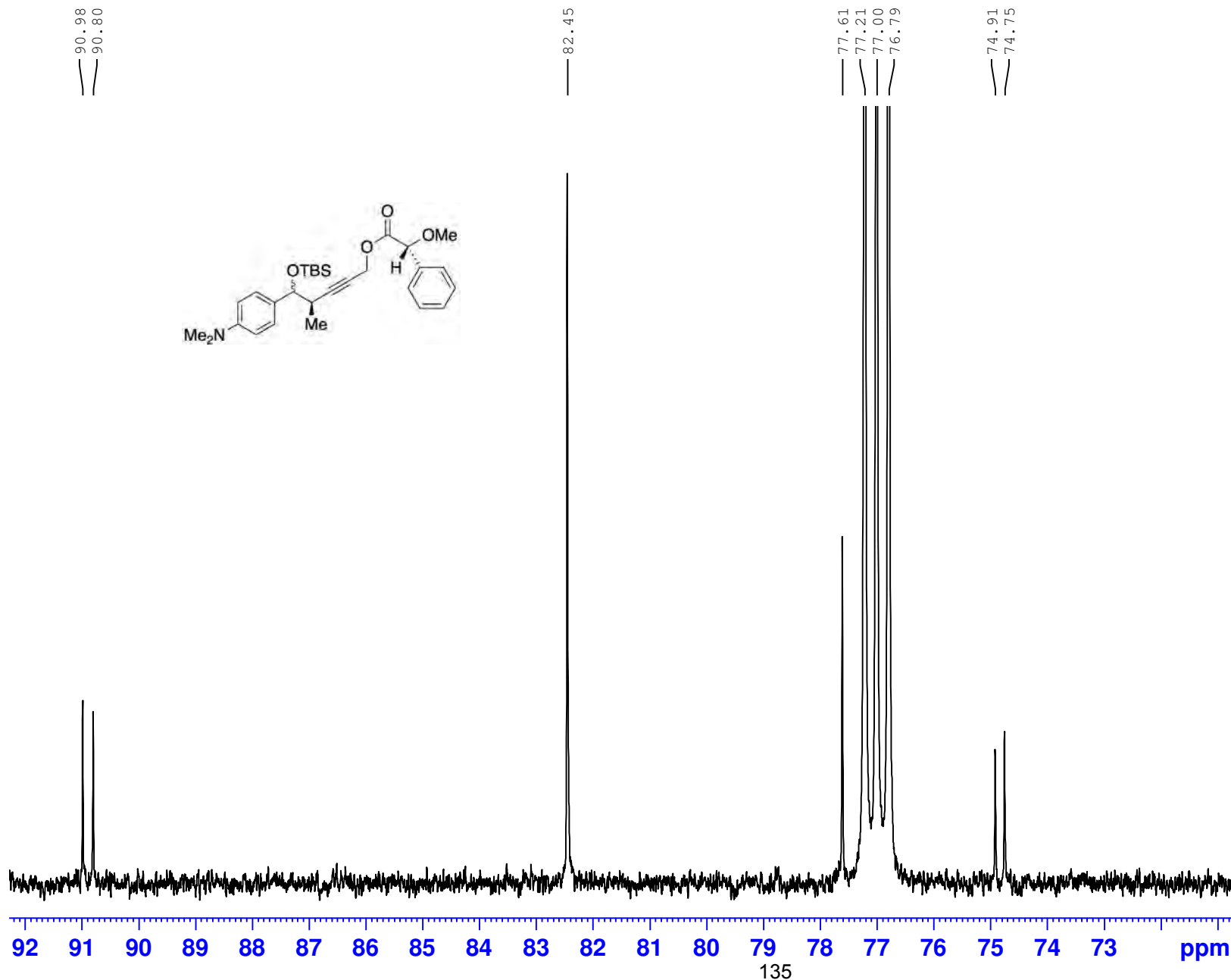
Current Data Parameters
NAME III-PK-68
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191104
Time 16.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 37500.000 Hz
FIDRES 0.315010 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 7.73 usec
TE 299.3 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 150.9194058 MHz
NUC1 13C
P1 11.80 usec
PLW1 85.00000000 W

===== CHANNEL f2 =====
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 80.00 usec
PLW2 27.00000000 W
PLW12 0.43891999 W
PLW13 0.28090999 W

F2 - Processing parameters
SI 131072
SF 150.9028110 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





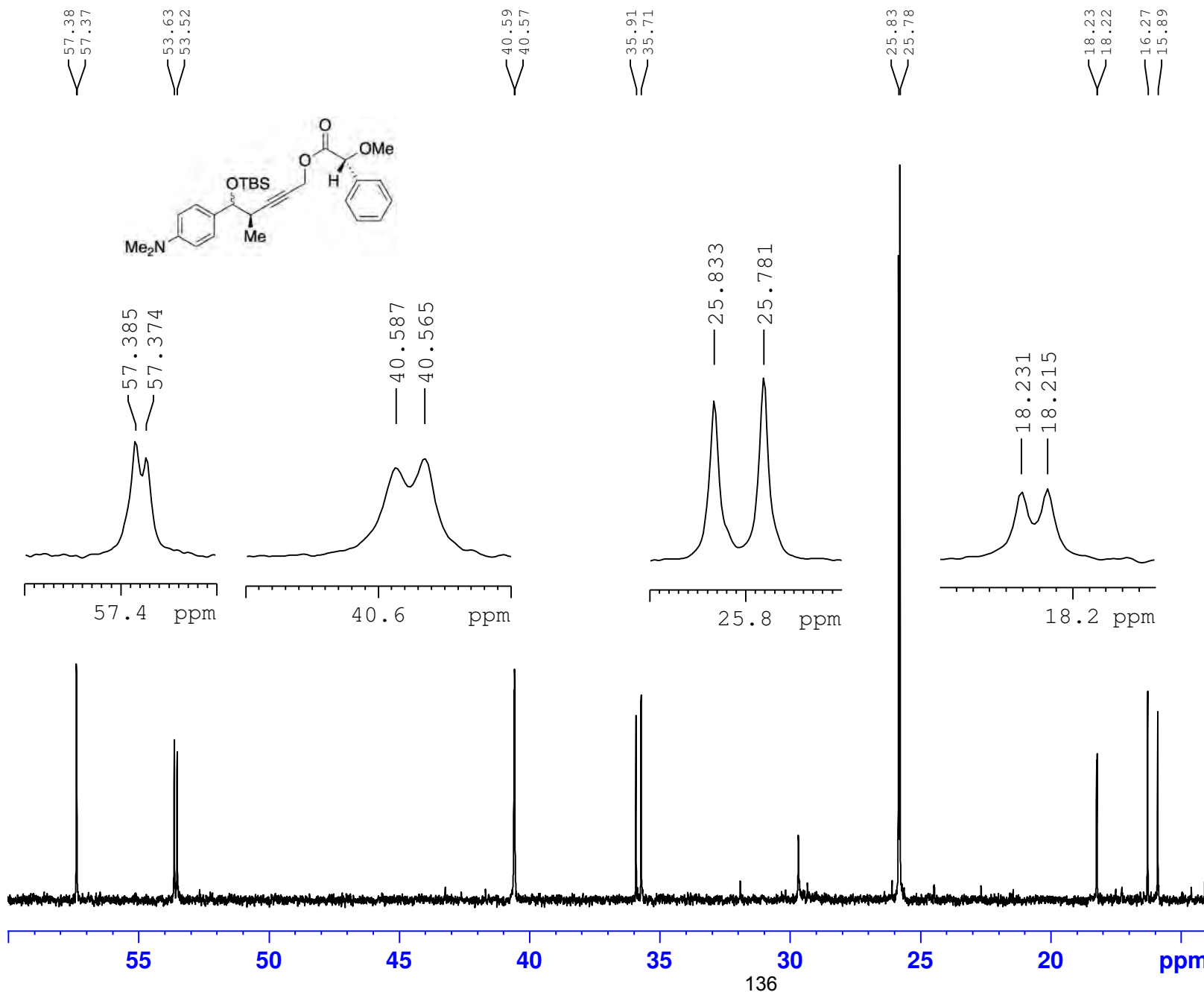
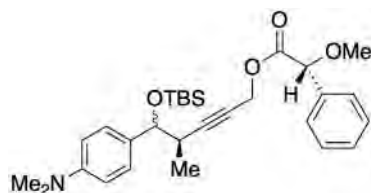
Current Data Parameters
 NAME III-PK-68
 EXPNO 11
 PROCNO 1

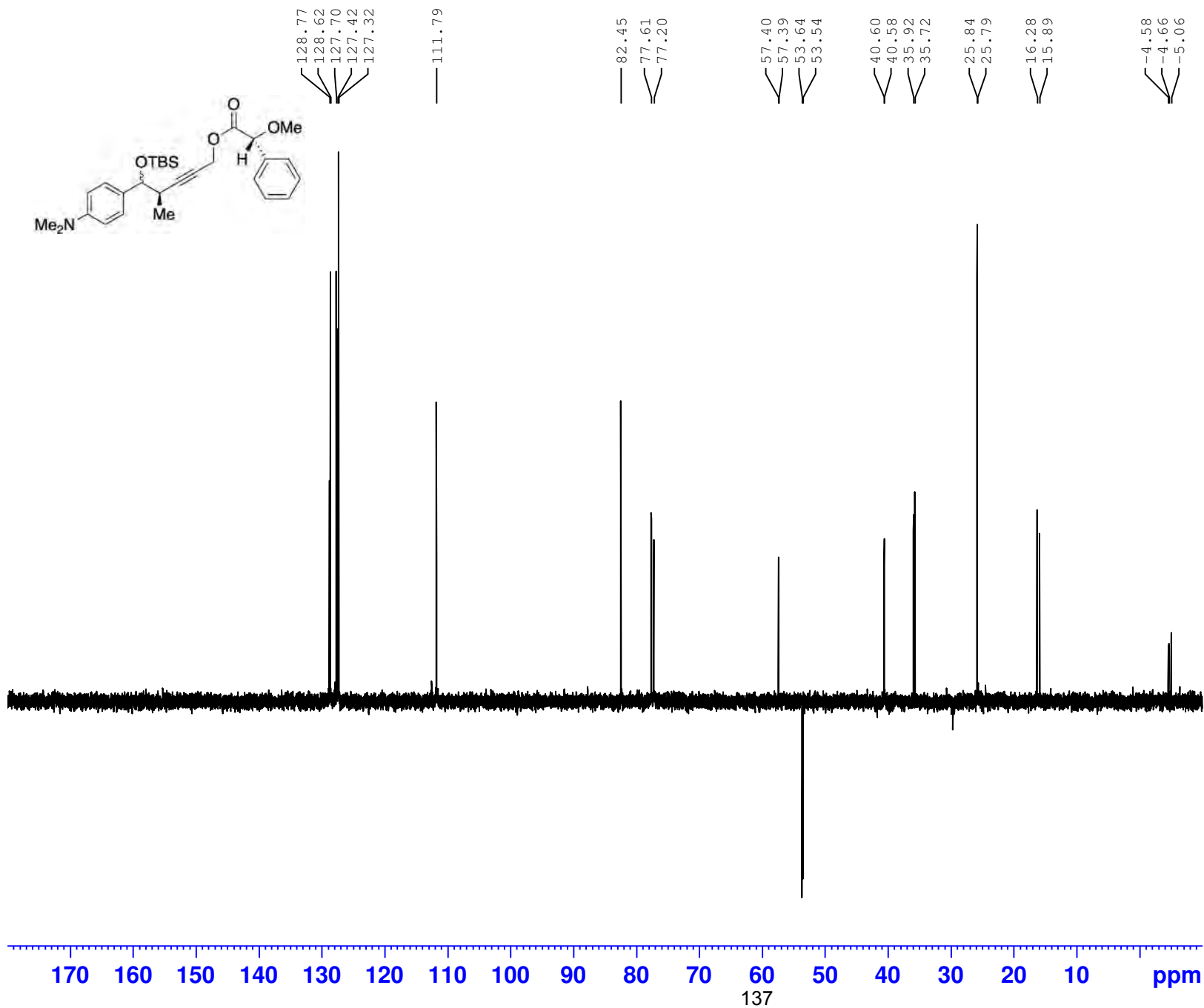
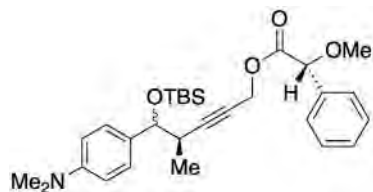
F2 - Acquisition Parameters
 Date_ 20191104
 Time 16.42
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.315010 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 7.73 usec
 TE 299.3 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 150.9194058 MHz
 NUC1 13C
 P1 11.80 usec
 PLW1 85.00000000 W

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W
 PLW13 0.28090999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028110 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





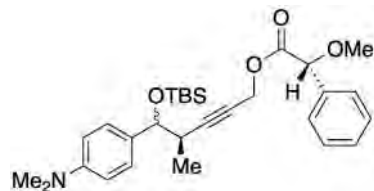
Current Data Parameters
 NAME III-PK-68
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191104
 Time 16.54
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35.b
 TD 119044
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.300009 Hz
 AQ 1.6666160 sec
 RG 186.92
 DW 14.000 usec
 DE 7.44 usec
 TE 299.0 K
 CNST2 145.0000000
 D1 1.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 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

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028098 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME III-PK-68
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191104
 Time 16.56
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 7352.941 Hz
 FIDRES 3.590303 Hz
 AQ 0.1392640 sec
 RG 186.92
 DW 68.000 usec
 DE 6.50 usec
 TE 298.7 K
 D0 0.00000300 sec
 D1 0.92422330 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00013620 sec

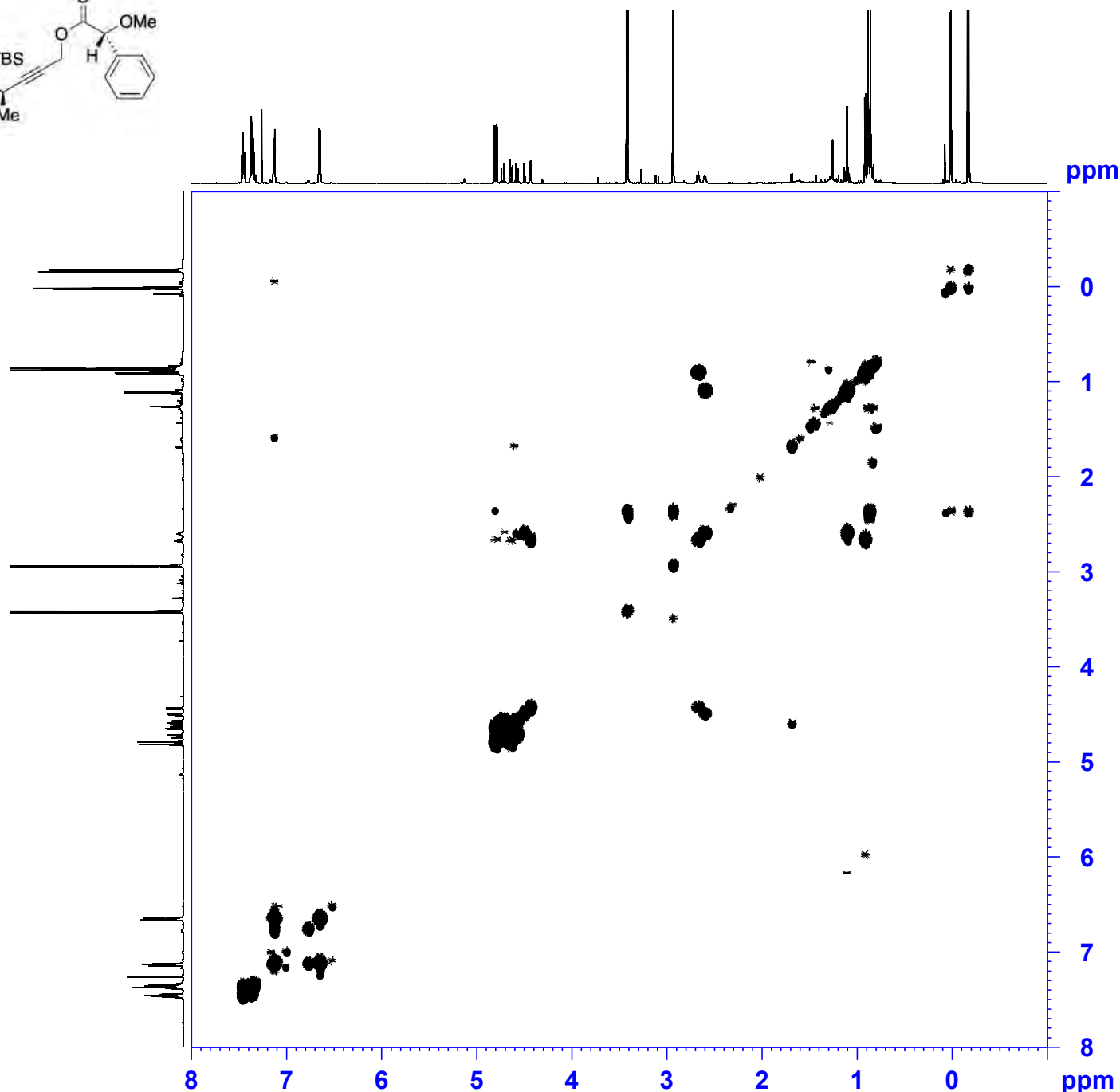
===== CHANNEL f1 =====
 SFO1 600.1314363 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 3.93490005 W

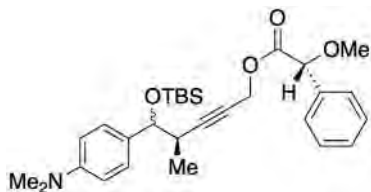
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1314 MHz
 FIDRES 57.360500 Hz
 SW 12.234 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300175 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300187 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
 NAME III-PK-68
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date 20191104
 Time 17.02
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcetgpgp3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 7211.539 Hz
 FIDRES 7.042518 Hz
 AQ 0.0709973 sec
 RG 186.92
 DW 69.333 usec
 DE 6.50 usec
 TE 298.5 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 0.00002010 sec

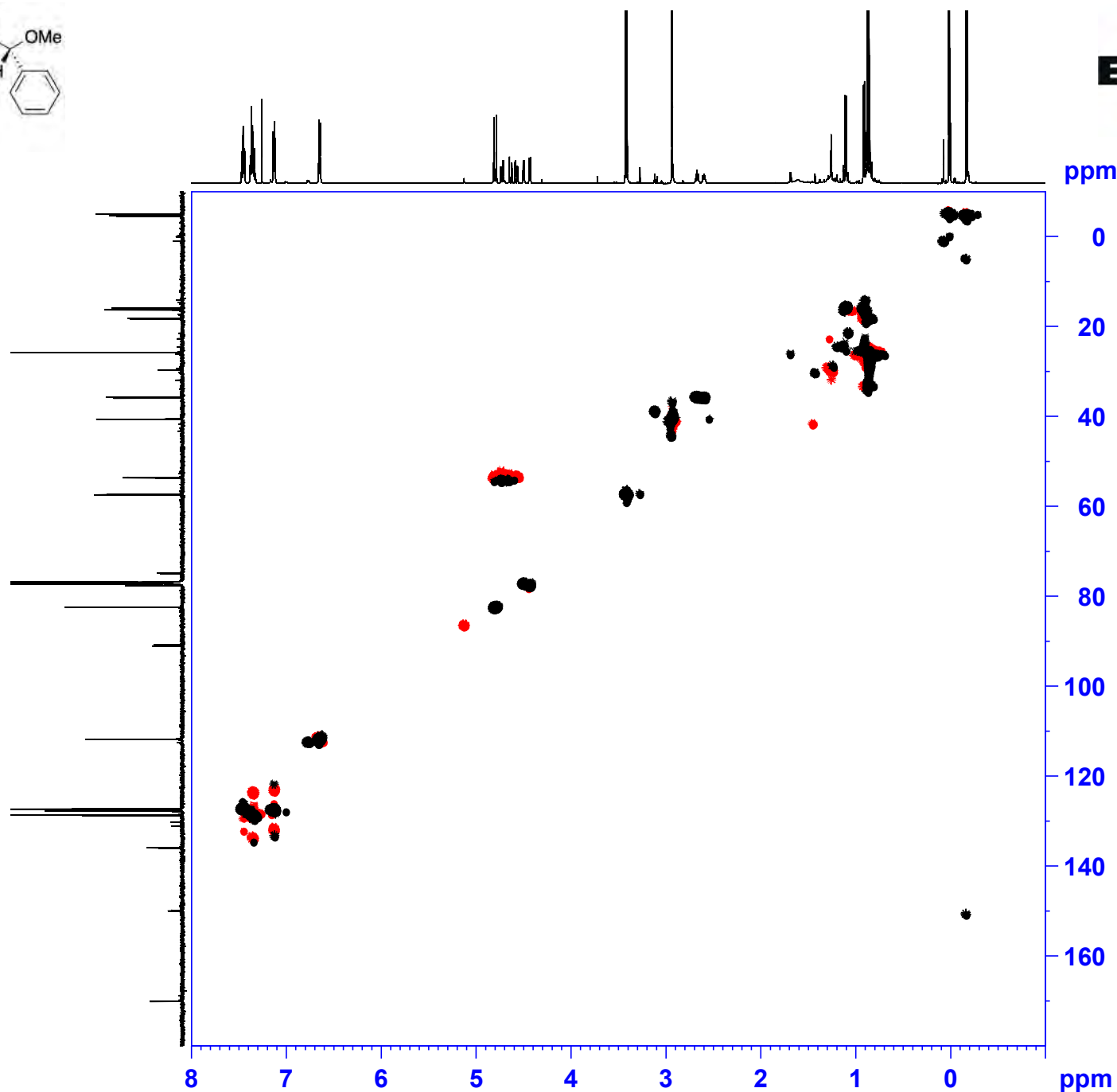
===== CHANNEL f1 =====
 SF01 600.1328223 MHz
 NUC1 1H
 P1 10.00 usec
 P2 20.00 usec
 P28 0 usec
 PLW1 26.60000038 W

===== CHANNEL f2 =====
 SF02 150.9141236 MHz
 NUC2 13C
 CPDPRG[2] garr4
 P3 11.80 usec
 P14 500.00 usec
 P31 1730.00 usec
 PCPD2 65.00 usec
 PLW0 0 W
 PLW2 85.00000000 W
 PLW12 2.80130005 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

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GP21 80.00 %
 GP22 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 2256
 SF01 150.9141 MHz
 FIDRES 194.340790 Hz
 SW 164.833 ppm
 F1MODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 600.1300133 MHz
 SF01 600.1300133 MHz

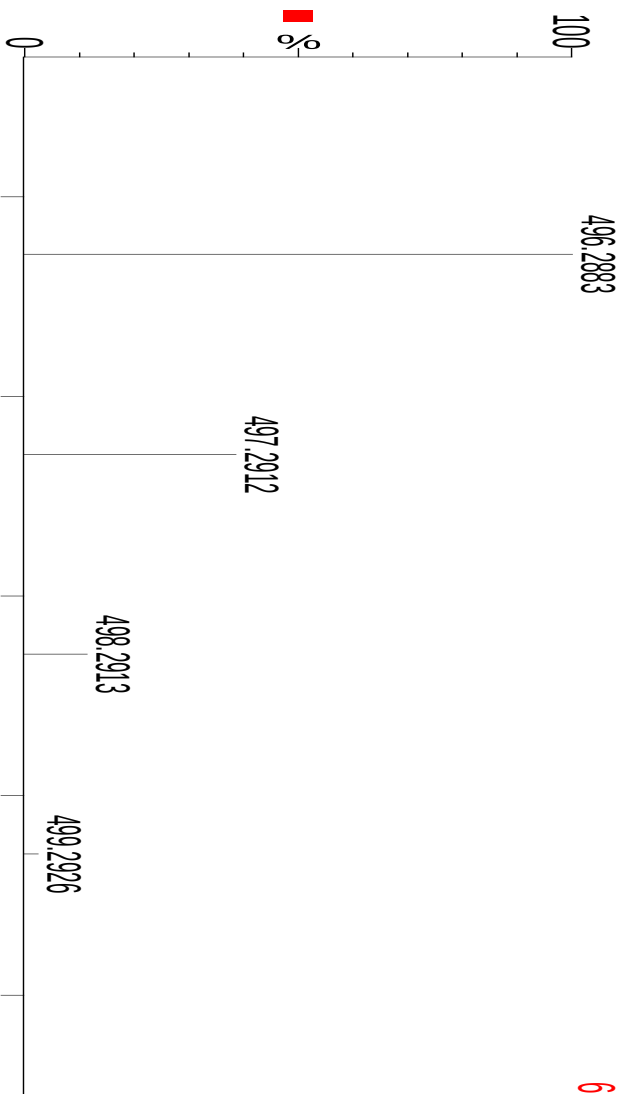


IN.PK.61

02-06-2021

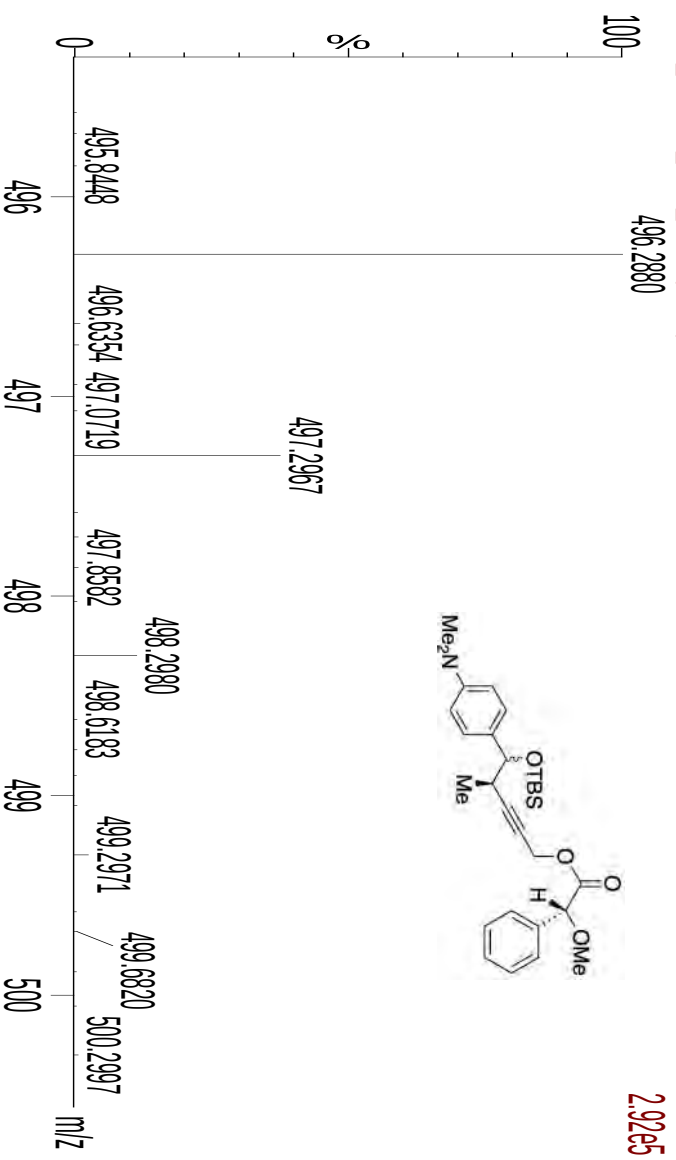
ASEP_02JUNE_2021_255 (0.322) Is (1.00,1.00) C₂₉H₄₁NO₄SiH

1: TOF MS ES+
6.56e12



ASEP_02JUNE_2021_255 7 (0.322)

1: TOF MS ES+
2.92e5



7.356
7.350
7.344
7.342
7.340
7.332
7.260
6.796
6.775
6.543
6.437
6.412

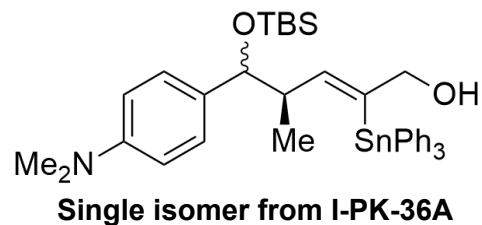
4.324
4.228
4.211

2.919
2.497
2.480
2.472
2.463
2.455
2.438

1.560
1.319
1.256

0.825
0.575
0.559

0.072
0.002
-0.093
-0.271

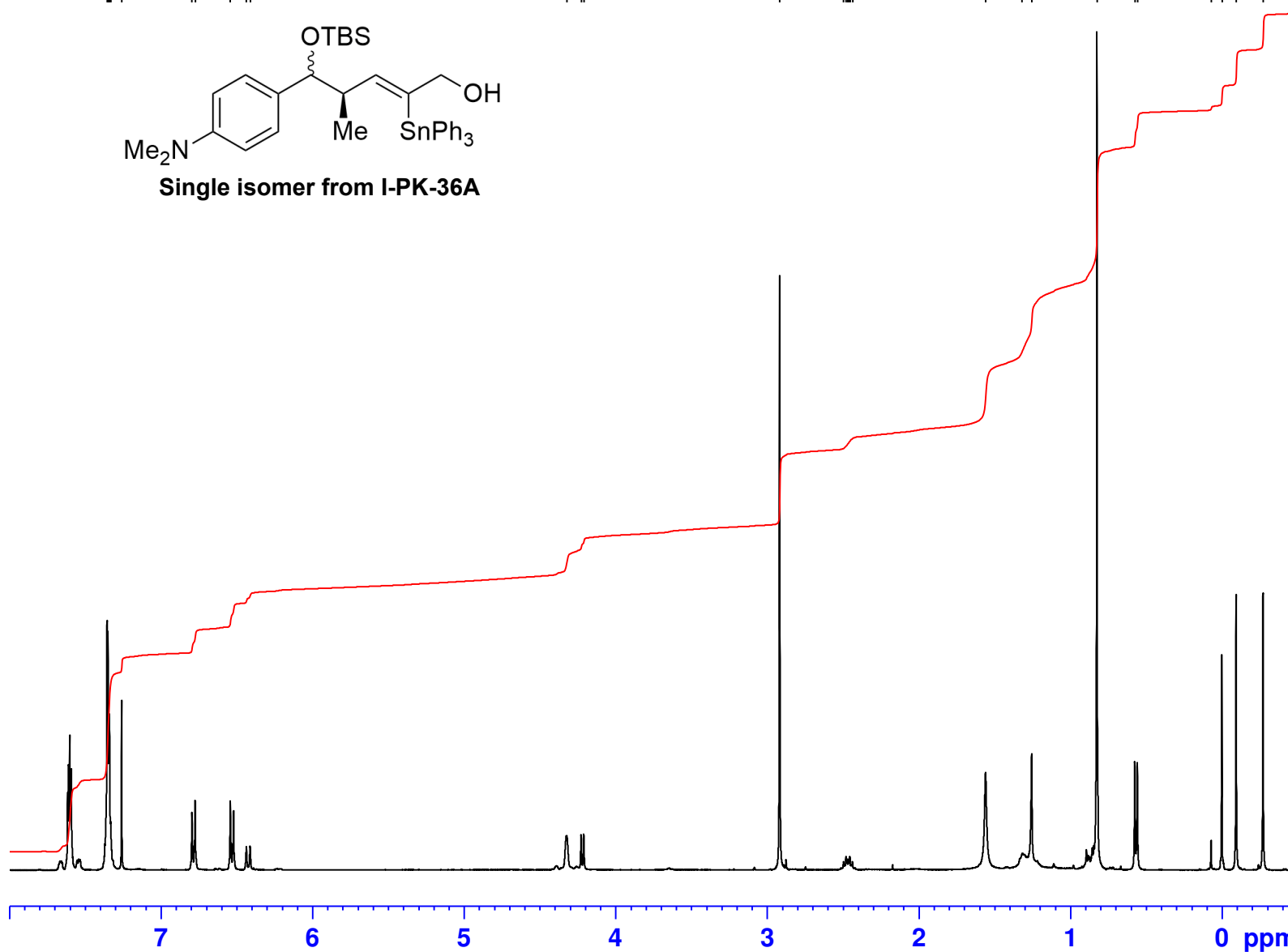


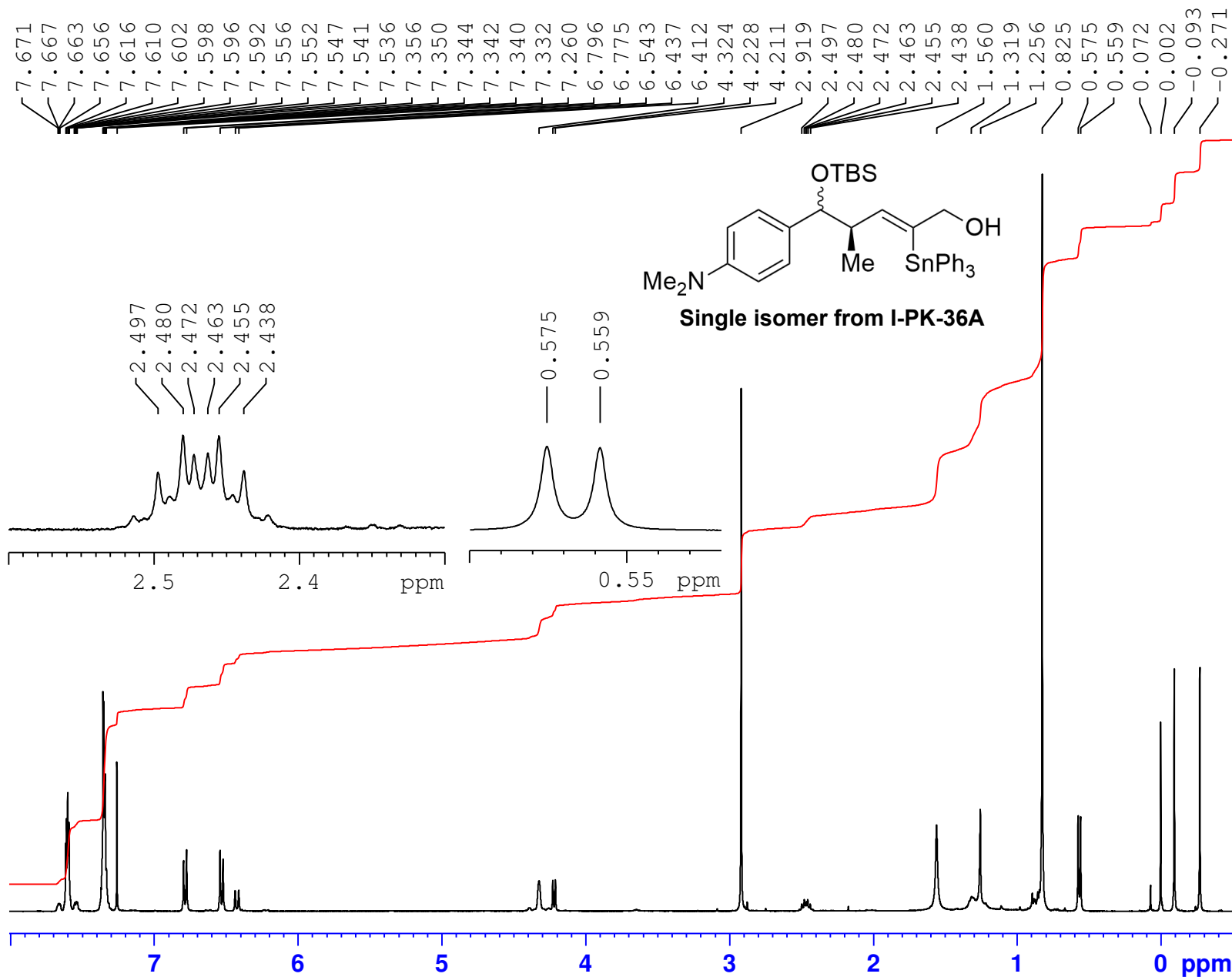
Current Data Parameters
NAME I-PK-37B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 3.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 203
DW 41.600 usec
DE 9.85 usec
TE 296.5 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME I-PK-37B
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180120
 Time 3.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 203
 DW 41.600 usec
 DE 9.85 usec
 TE 296.5 K
 D1 0.10000000 sec
 TD0 1

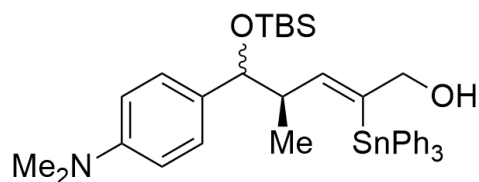
===== CHANNEL f1 =====
 SF01 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000098 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

7.676
7.671
7.667
7.663
7.656
7.616
7.610
7.602
7.598
7.596
7.592
7.556
7.552
7.547
7.541
7.536

7.356
7.350
7.344
7.342
7.340
7.332

— 7.260



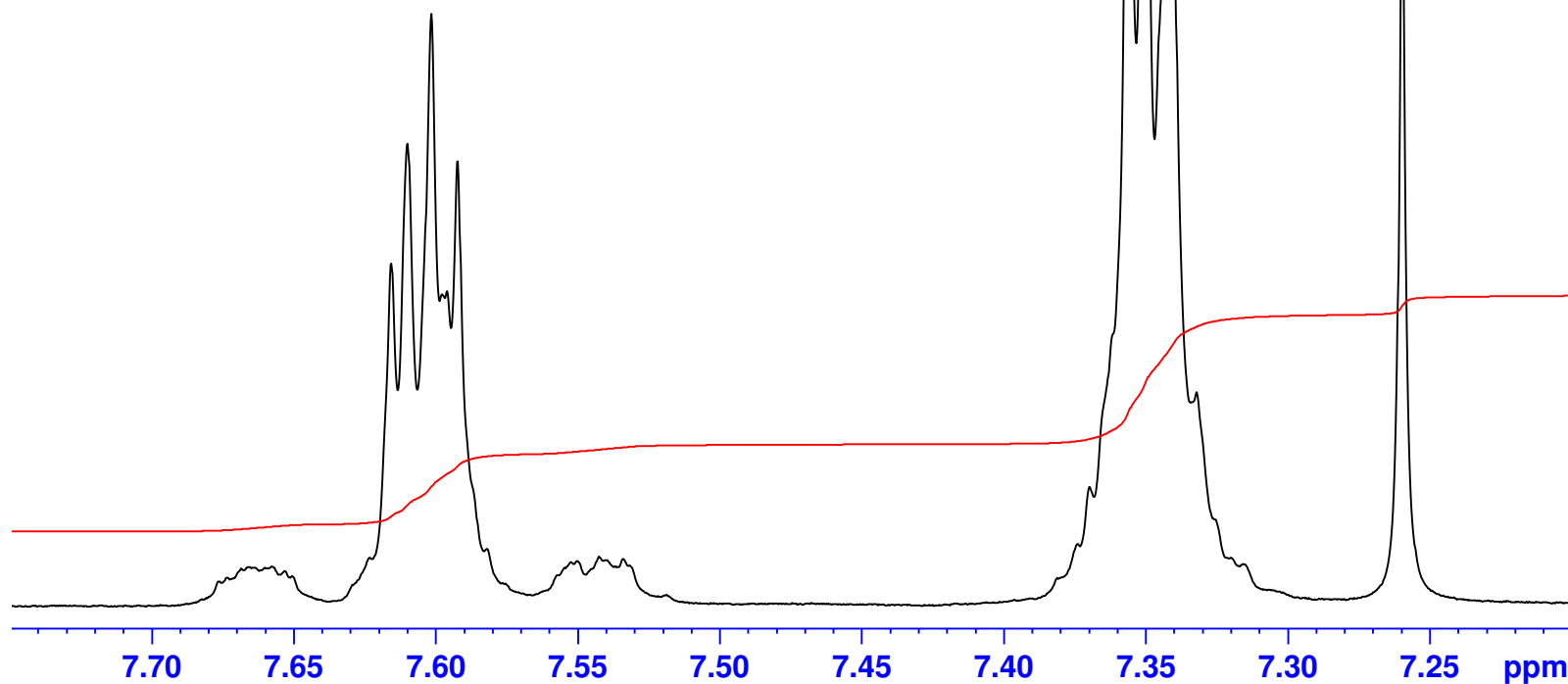
Single isomer from I-PK-36A

Current Data Parameters
NAME I-PK-37B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 3.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 203
DW 41.600 usec
DE 9.85 usec
TE 296.5 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



— 6.642
— 6.633
— 6.617
— 6.609

— 6.543

— 6.437

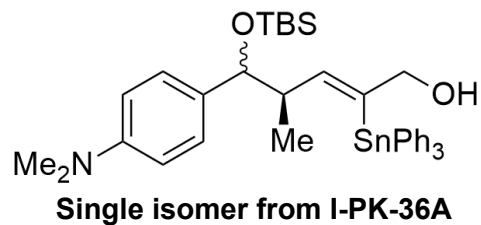
— 6.412

— 6.241

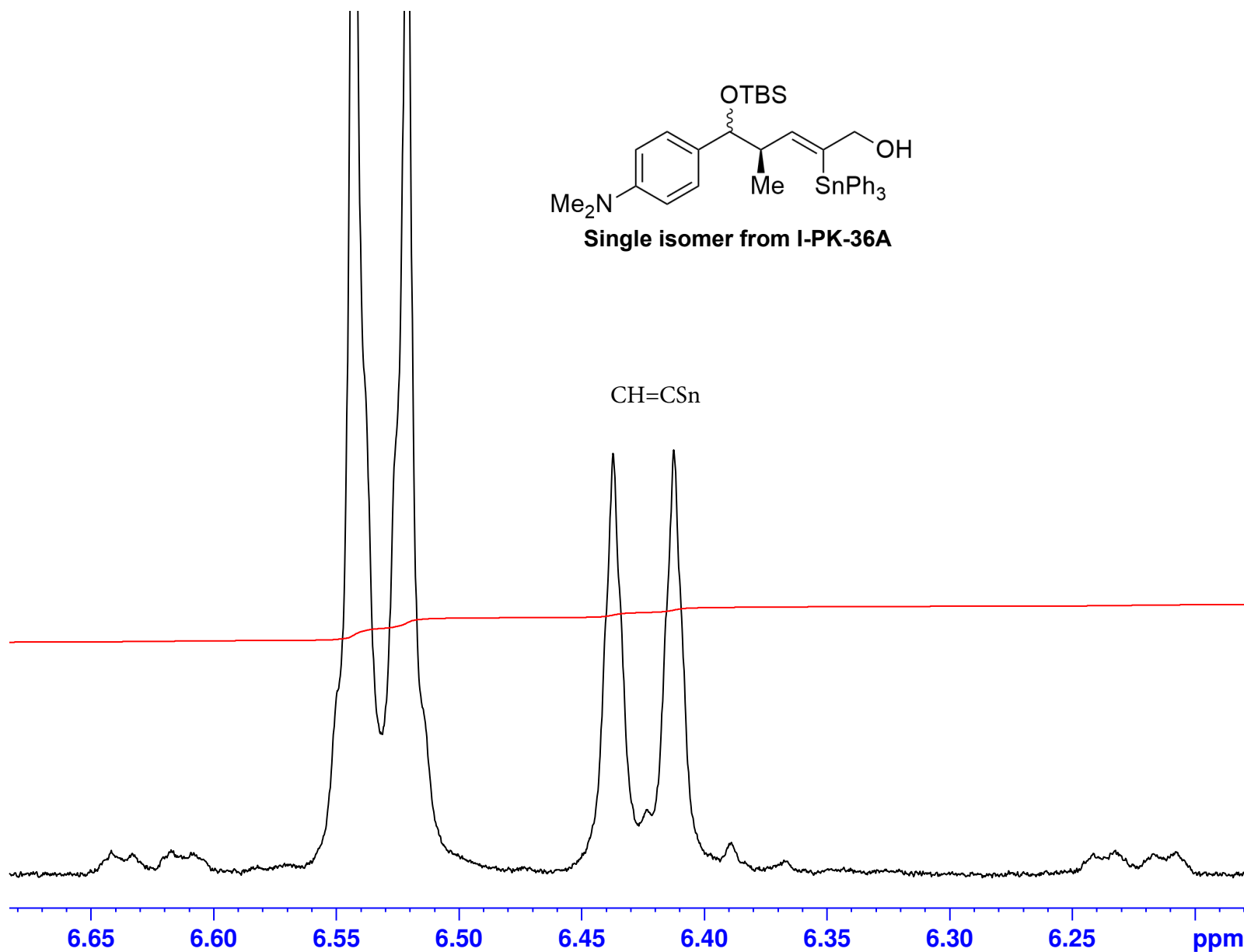
— 6.233

— 6.217

— 6.208



CH=CSn



Current Data Parameters
NAME I-PK-37B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 3.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 203
DW 41.600 usec
DE 9.85 usec
TE 296.5 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters

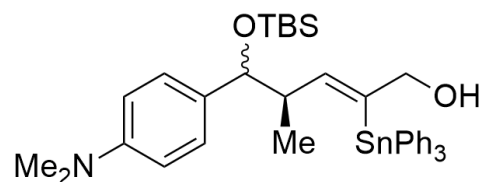
NAME I-PK-37B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

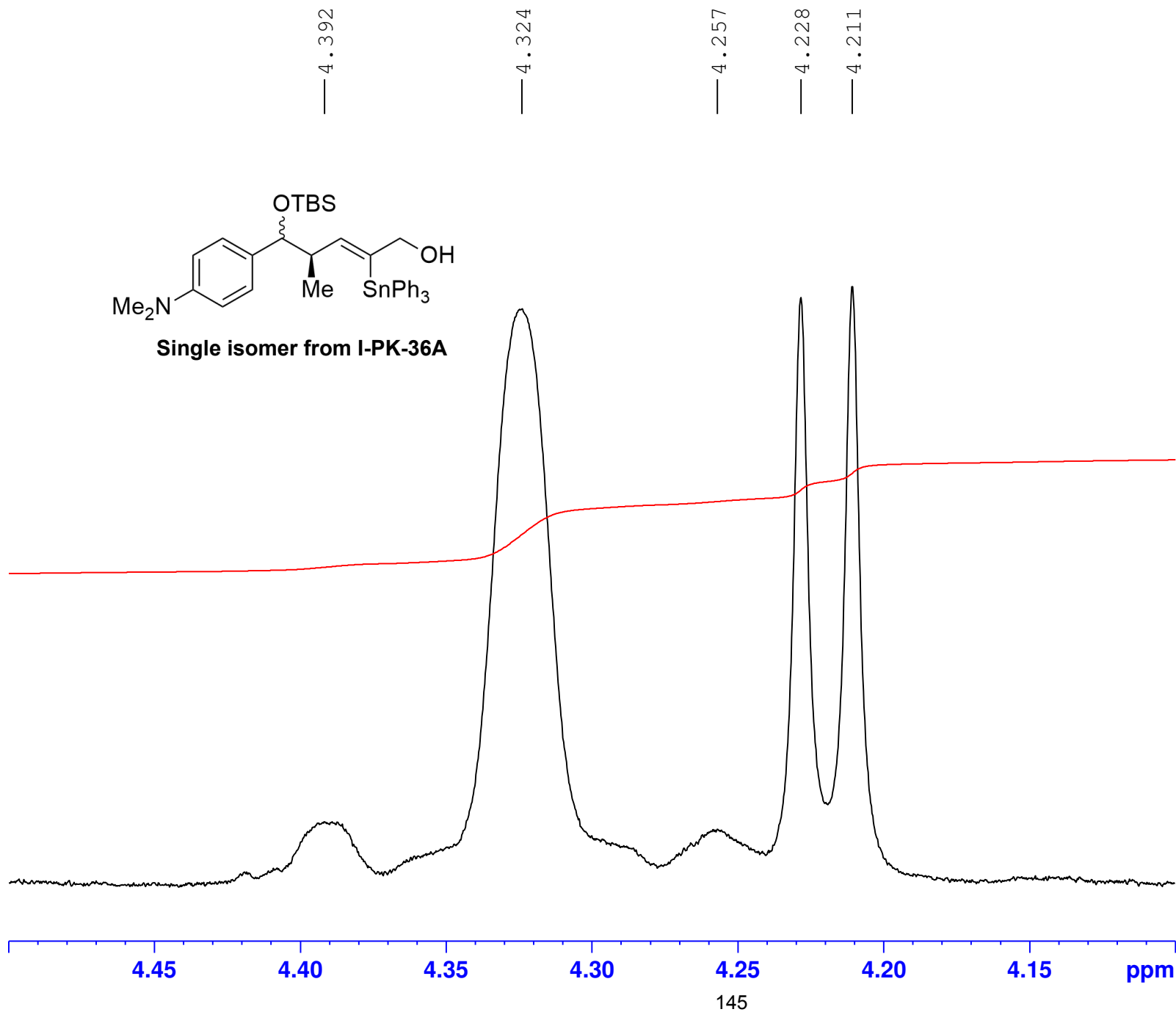
Date_ 20180120
Time 3.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDC13
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 203
DW 41.600 usec
DE 9.85 usec
TE 296.5 K
D1 0.10000000 sec
TD0 1

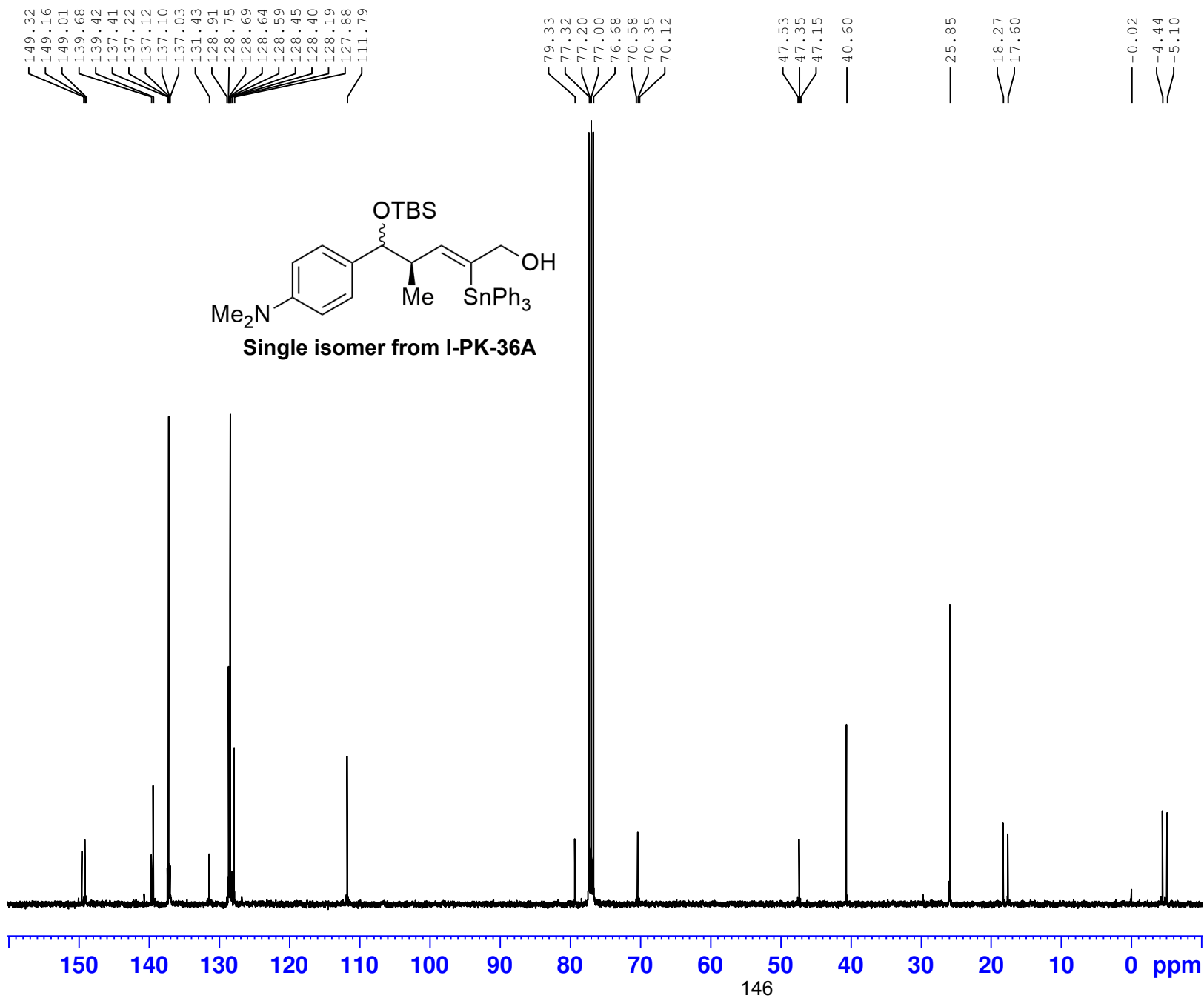
===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000098 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Single isomer from I-PK-36A





Current Data Parameters
 NAME I-PK-37A
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180120
 Time 8.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.7 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

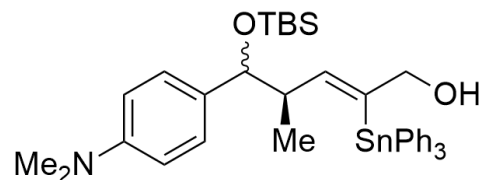
===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549388 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

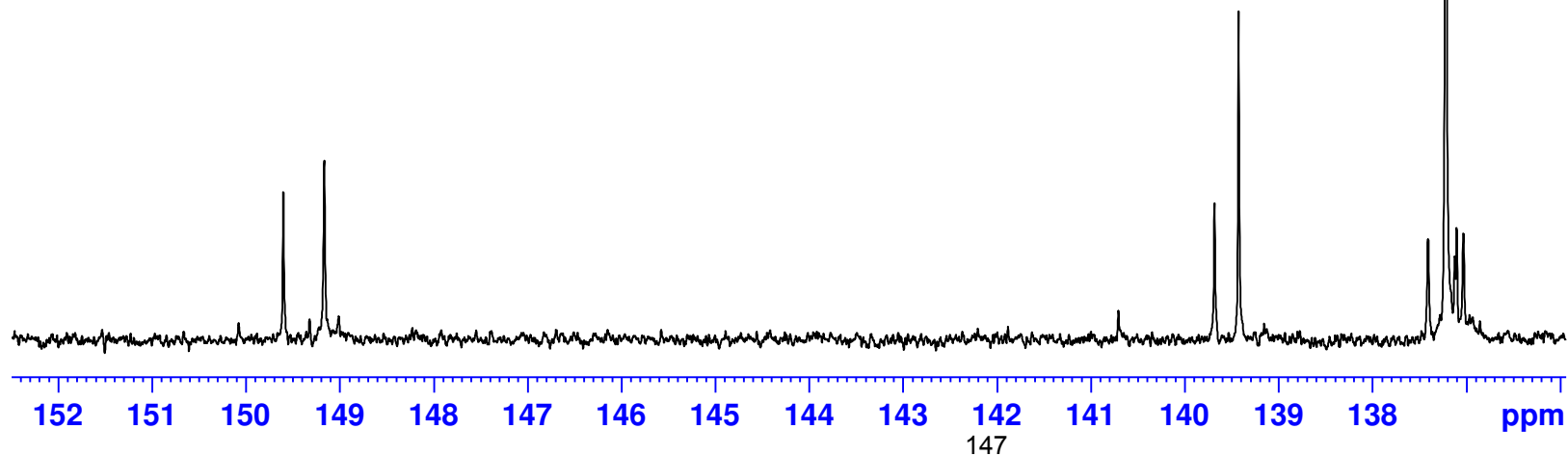
149.60
149.32
149.16
149.01

139.68
139.42

137.41
137.22
137.12
137.10
137.03



Single isomer from I-PK-36A



Current Data Parameters
NAME I-PK-37A
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 8.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.7 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549388 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



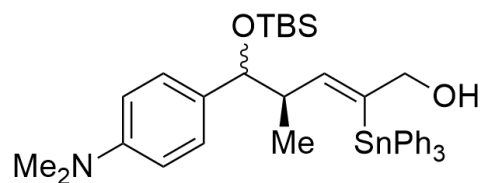
Current Data Parameters
NAME I-PK-37A
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 8.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 297.7 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

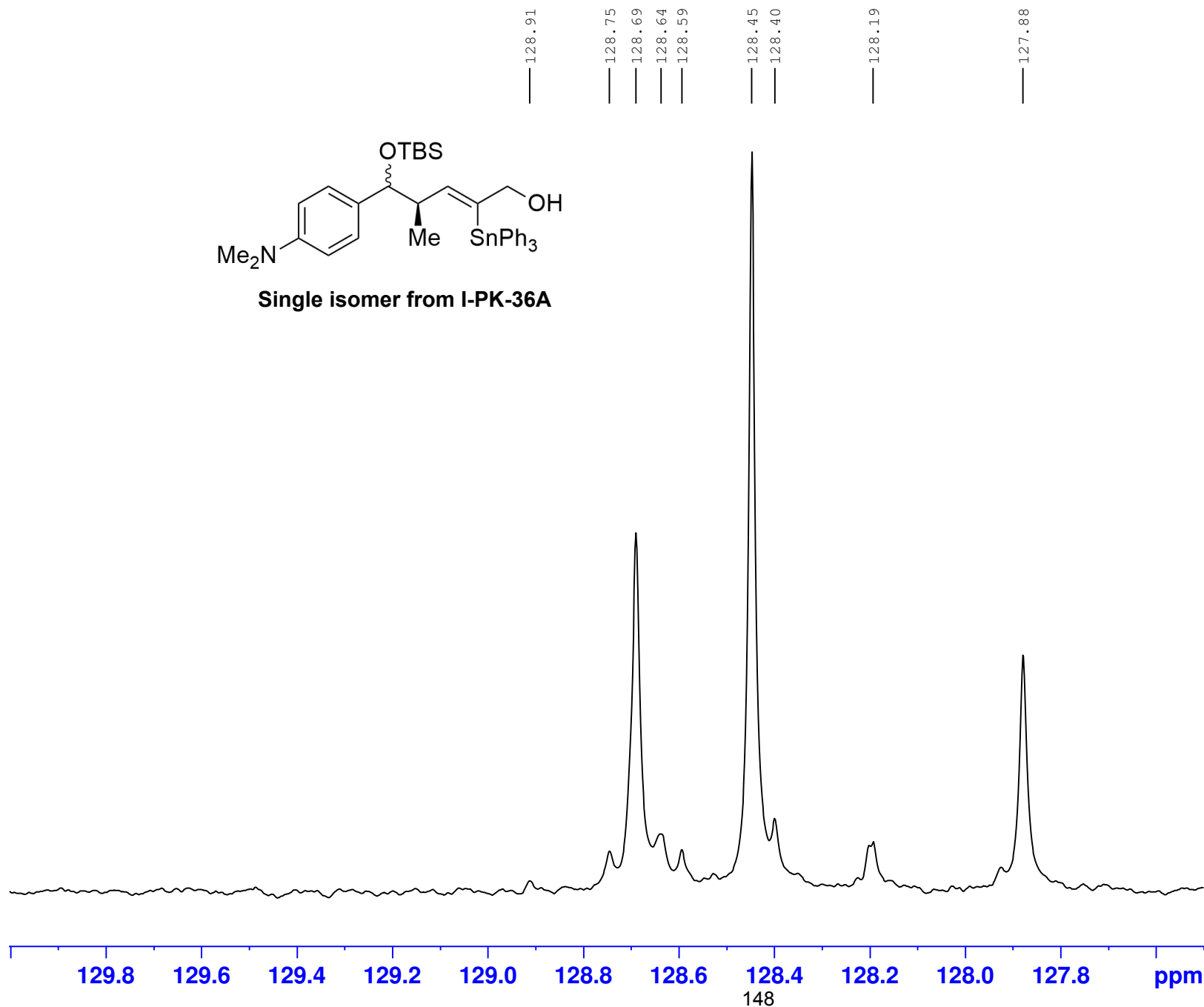
===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549388 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Single isomer from I-PK-36A





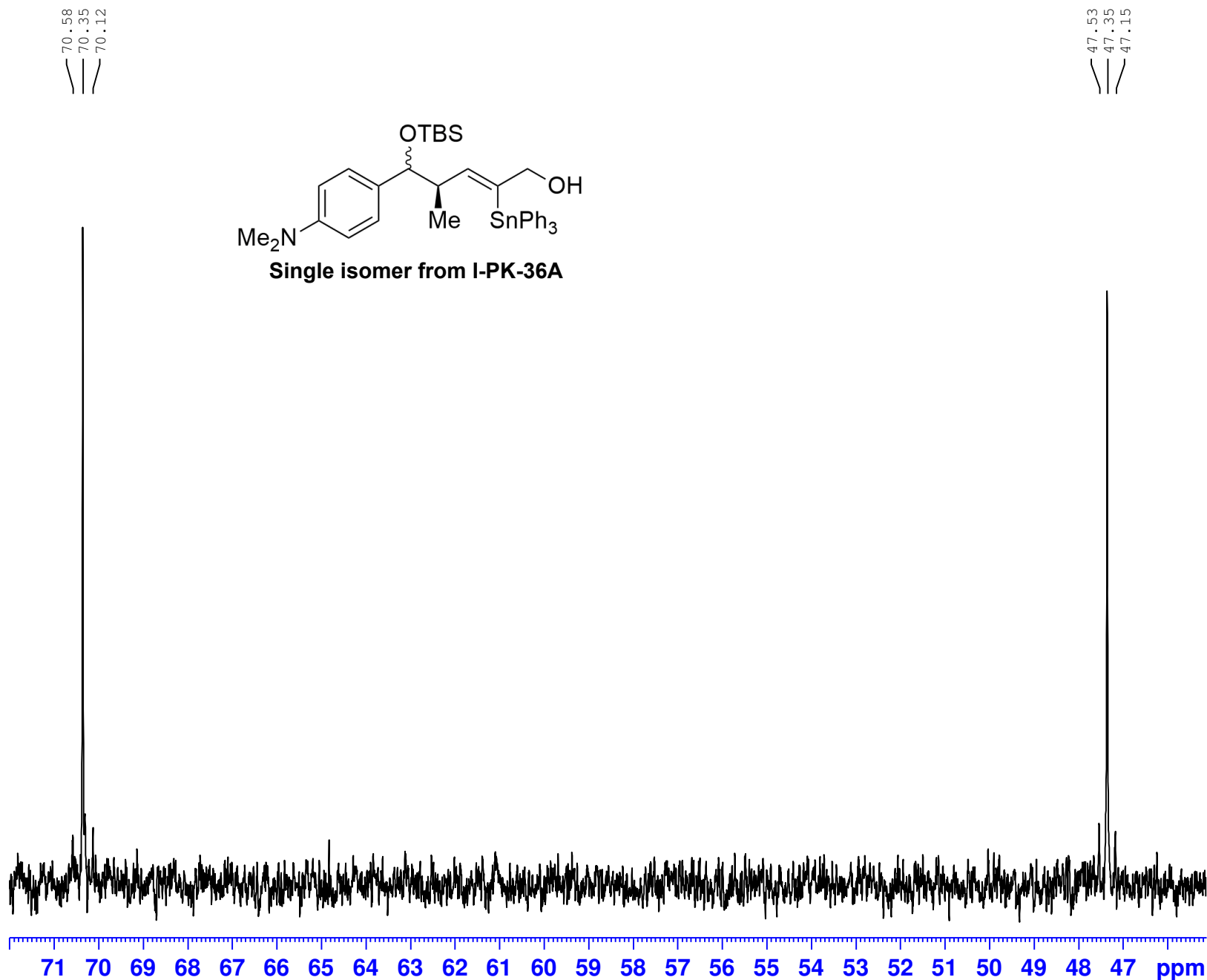
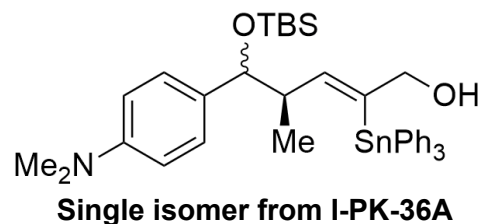
Current Data Parameters
 NAME I-PK-37A
 EXPNO 11
 PROCNO 1

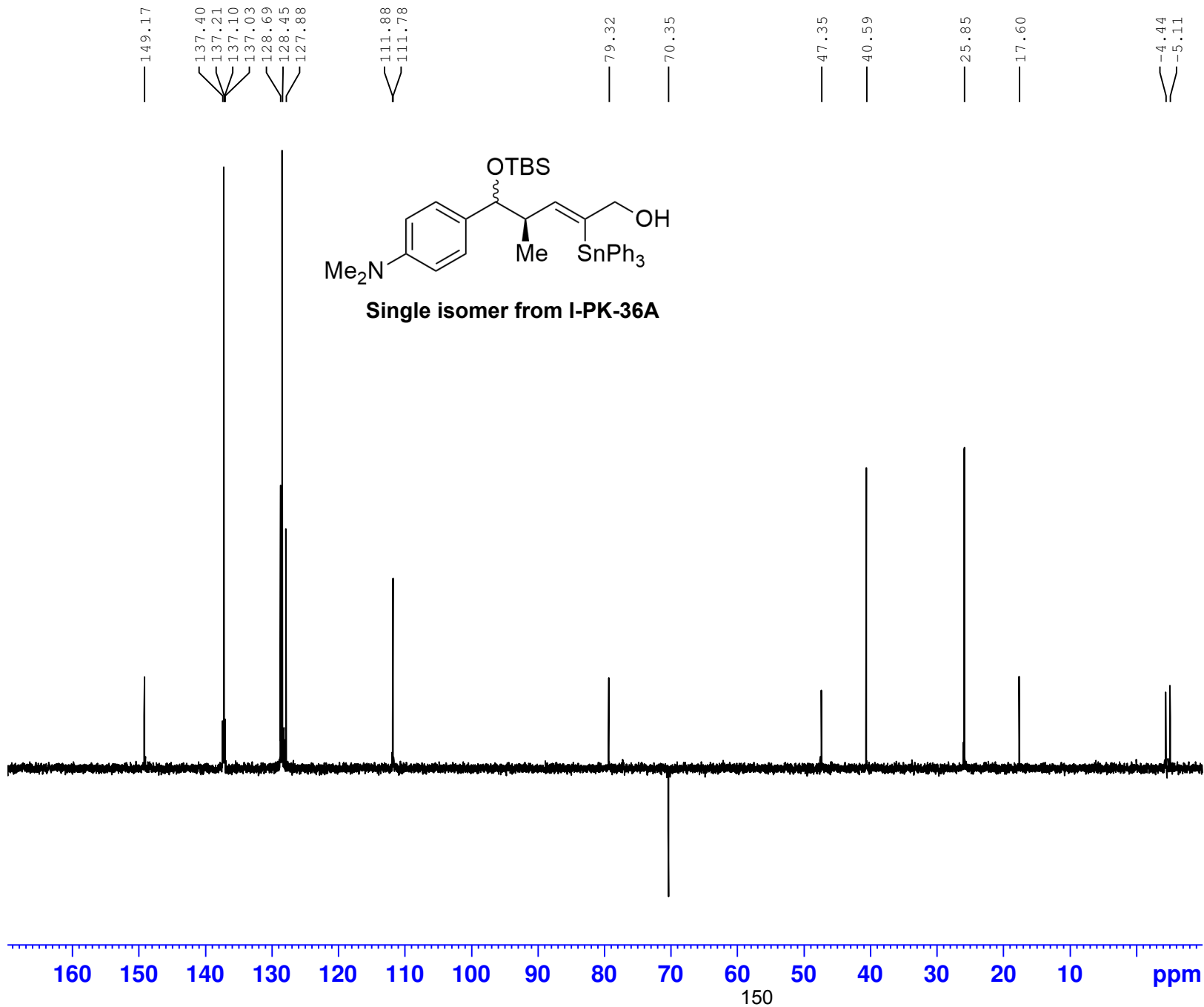
F2 - Acquisition Parameters
 Date_ 20180120
 Time 8.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 297.7 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549388 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





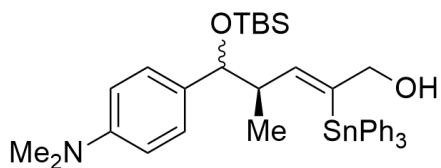
Current Data Parameters
 NAME I-PK-37A
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180120
 Time 8.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549389 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Single isomer from I-PK-36A



Current Data Parameters
NAME I-PK-37B
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time_ 5.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygmfpqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 3795.547 Hz
FIDRES 1.853294 Hz
AQ 0.2697899 sec
RG 2050
DW 131.733 usec
DE 6.50 usec
TE 296.7 K
D0 0.00000300 sec
D1 0.87629992 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00026340 sec

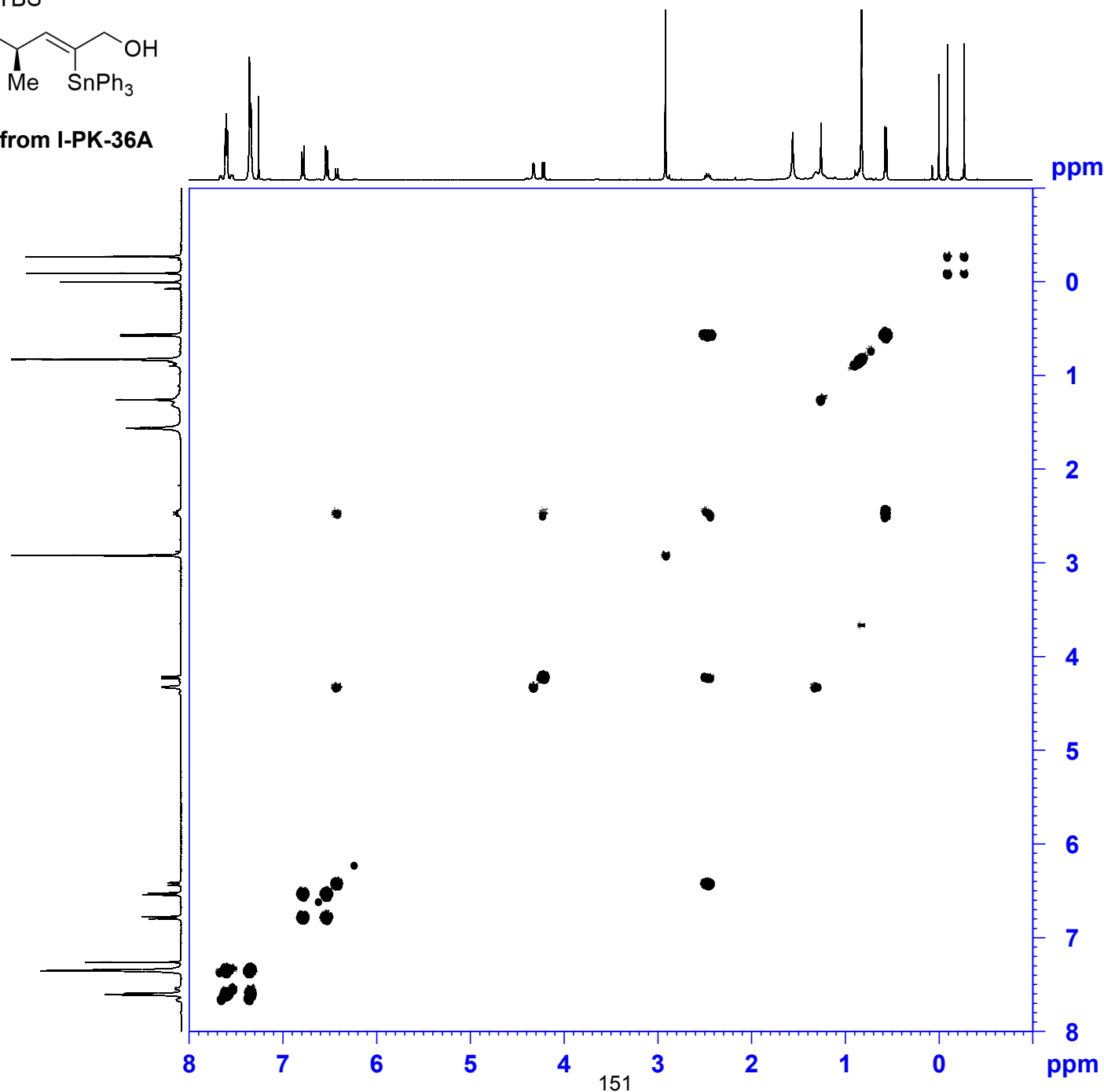
===== CHANNEL f1 =====
SFO1 399.9014817 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

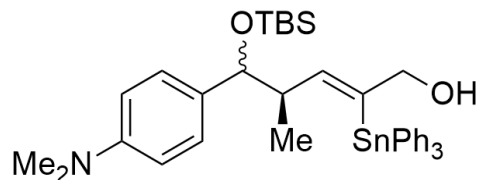
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 399.9015 MHz
FIDRES 29.660213 Hz
SW 9.494 ppm
FnMODE QF

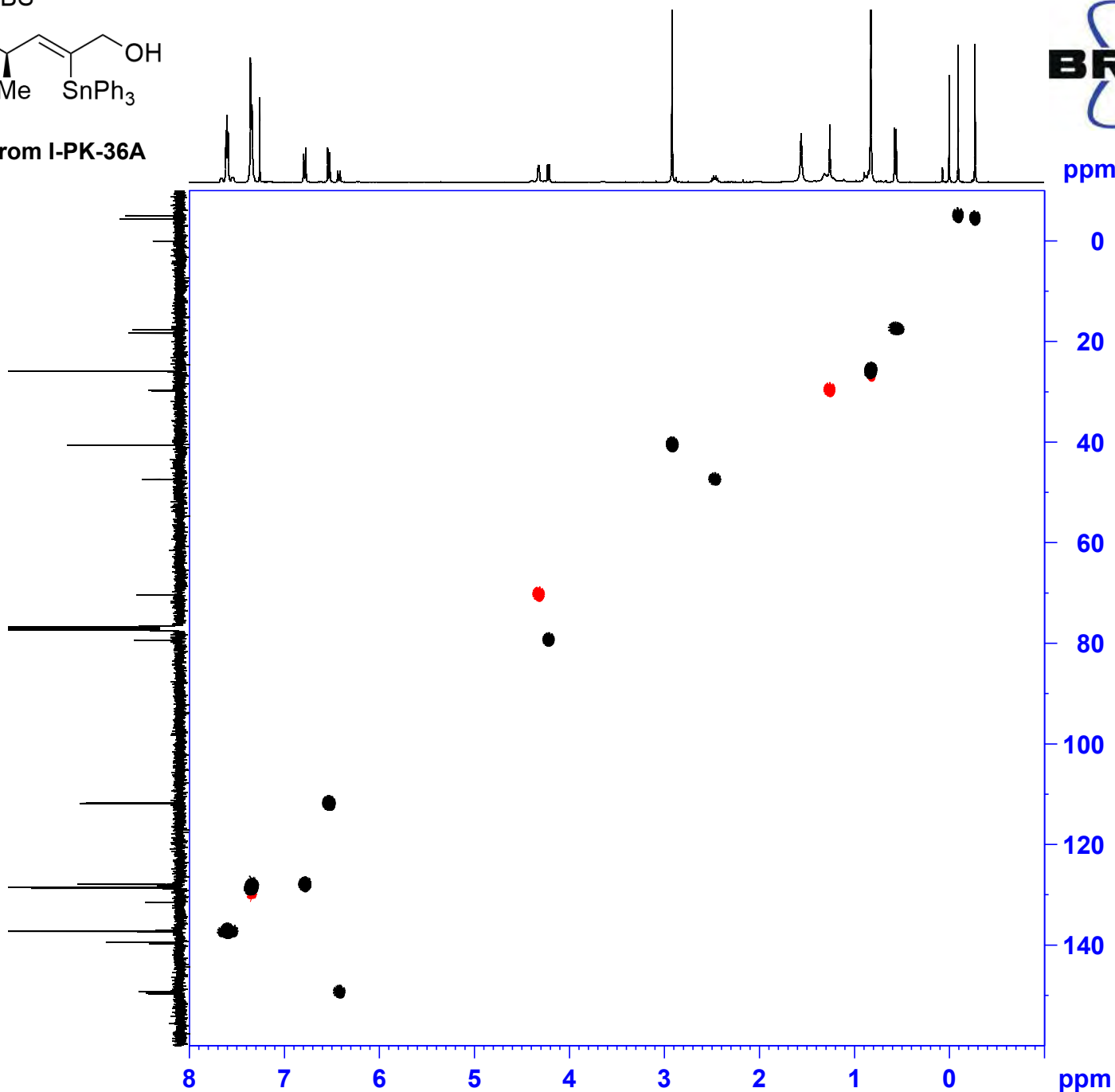
F2 - Processing parameters
SI 1024
SF 399.9000090 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.9000111 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





Single isomer from I-PK-36A



Current Data Parameters
NAME I-PK-37B
EXPCNO 15
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time 6.39
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgpgp.3
TD 1024
SOLVENT CDC13
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 298.5 K
CNST2 145.0000000
D0 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.030000000 sec
D16 0.000200000 sec
D21 0.003600000 sec
IN0 0.00001910 sec

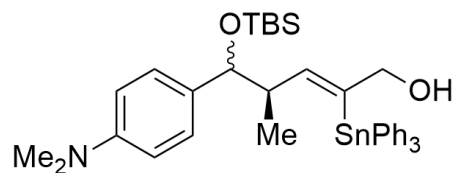
===== CHANNEL f1 =====
SF01 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SF02 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

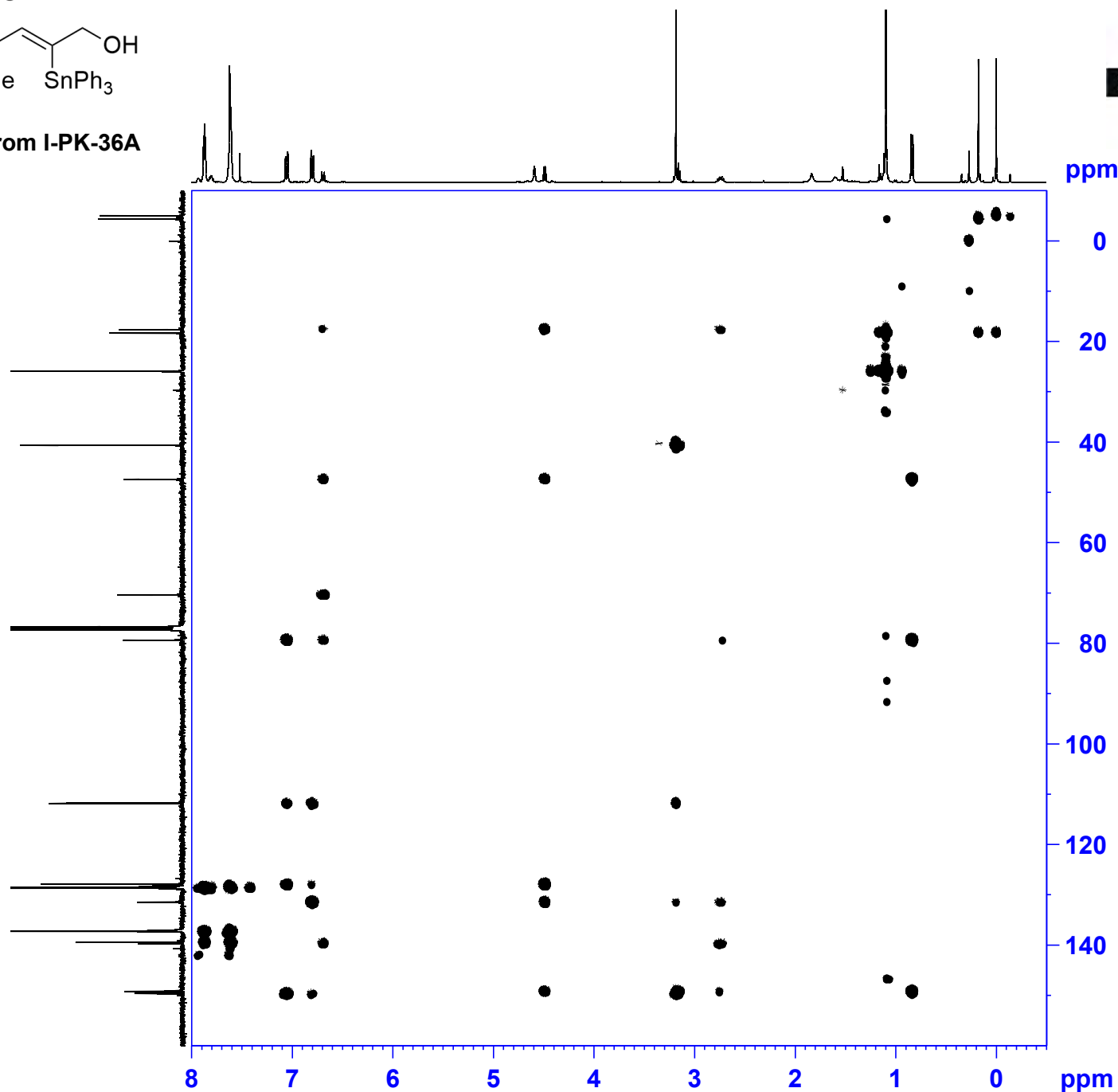
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GP21 80.00 %
GP22 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SF01 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000081 MHz
WDW OSINE



Single isomer from I-PK-36A



Current Data Parameters
NAME I-PK-37A
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180120
Time_ 8.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hmbcetgpl3nd
TD 4096
SOLVENT CDCl3
NS 4
DS 16
SWH 5208.333 Hz
FIDRES 1.271566 Hz
AQ 0.3932160 sec
RG 2050
DW 96.000 usec
DE 6.50 usec
TE 296.6 K
CNST6 120.0000000
CNST7 175.0000000
CNST13 8.0000000
CNST30 0.5981122
D0 0.00000300 sec
D1 1.50000000 sec
D6 0.06250000 sec
D16 0.00020000 sec
IN0 0.00002070 sec

===== CHANNEL f1 =====
SFO1 399.9019995 MHz
NUC1 ^1H
P1 14.88 usec
P2 29.76 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5659947 MHz
NUC2 ^{13}C
P3 10.00 usec
P24 2000.00 usec
PLW2 44.46300125 W
SPNAM[7] Crp60comp.4
SPOAL7 0.500
SPOFFS7 0 Hz
SPW7 6.79339981 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[3] SMSQ10.100
GPNAM[4] SMSQ10.100
GPNAM[5] SMSQ10.100
GPNAM[6] SMSQ10.100
GPZ1 80.00 %
GPZ3 14.00 %
GPZ4 -8.00 %
GPZ5 -4.00 %
GPZ6 -2.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 512
SFO1 100.566 MHz
FIDRES 94.353867 Hz
SW 240.186 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 4096
SF 399.8999052 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

I-PK-37

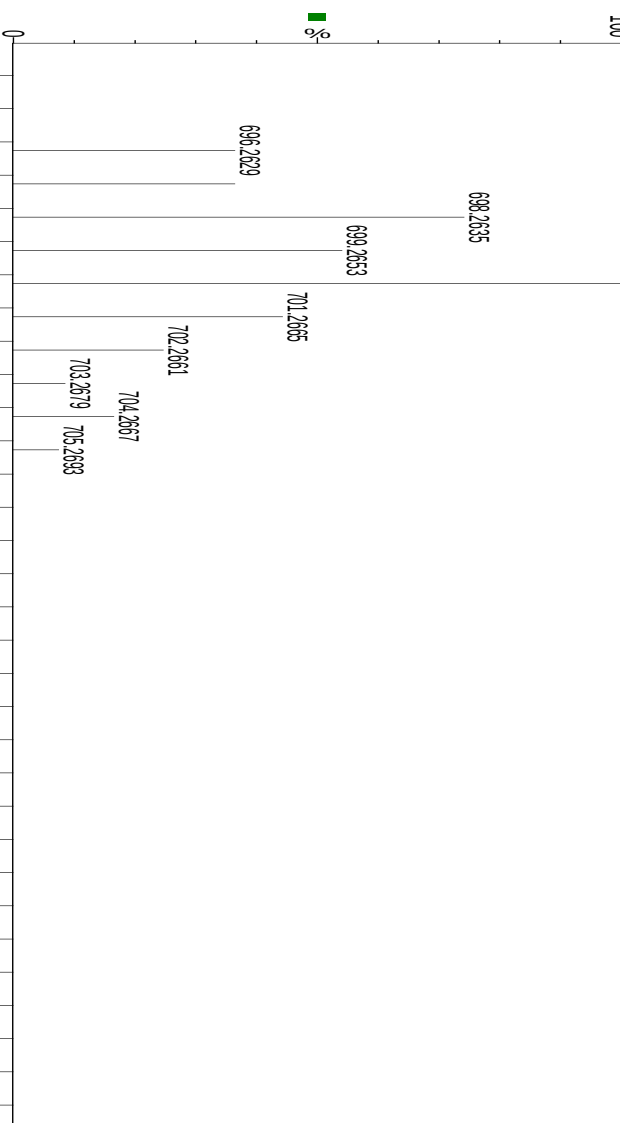
8891_10_JAN_2018_63 (0.070) S (1.00,1.00) C₃₈H₄₉NSiO₂H

700.2640

22-01-2018

1: TOF MS ES⁺

2.43e12

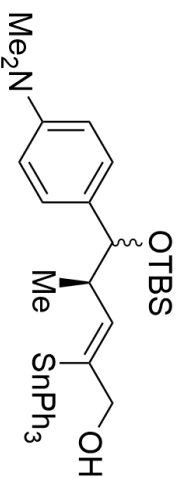


8891_10_JAN_2018_63.2 (0.104) Cm (2.7)

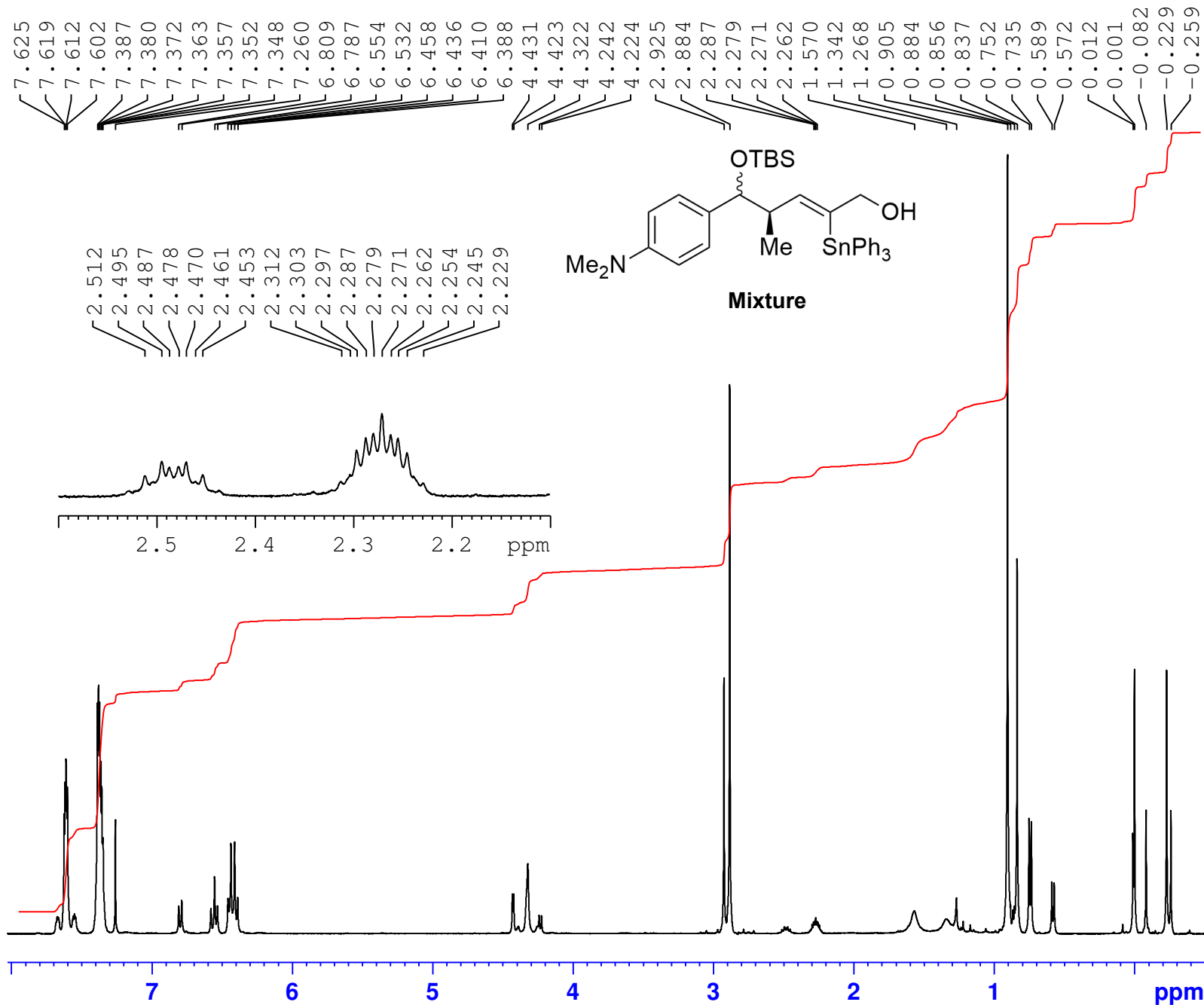
700.2611

1: TOF MS ES⁺

1.04e4



Single isomer from I-PK-36A



Current Data Parameters
 NAME I-PK-282
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190524
 Time 16.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

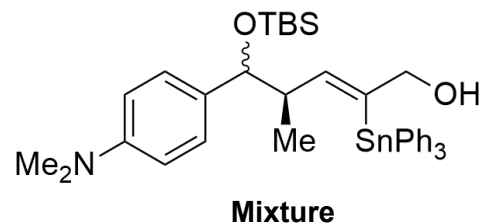
F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

— 6.652
— 6.644
— 6.625
— 6.613

— 6.554
— 6.532

— 6.458
— 6.436
— 6.410
— 6.388

— 6.252
— 6.242
— 6.230
— 6.217

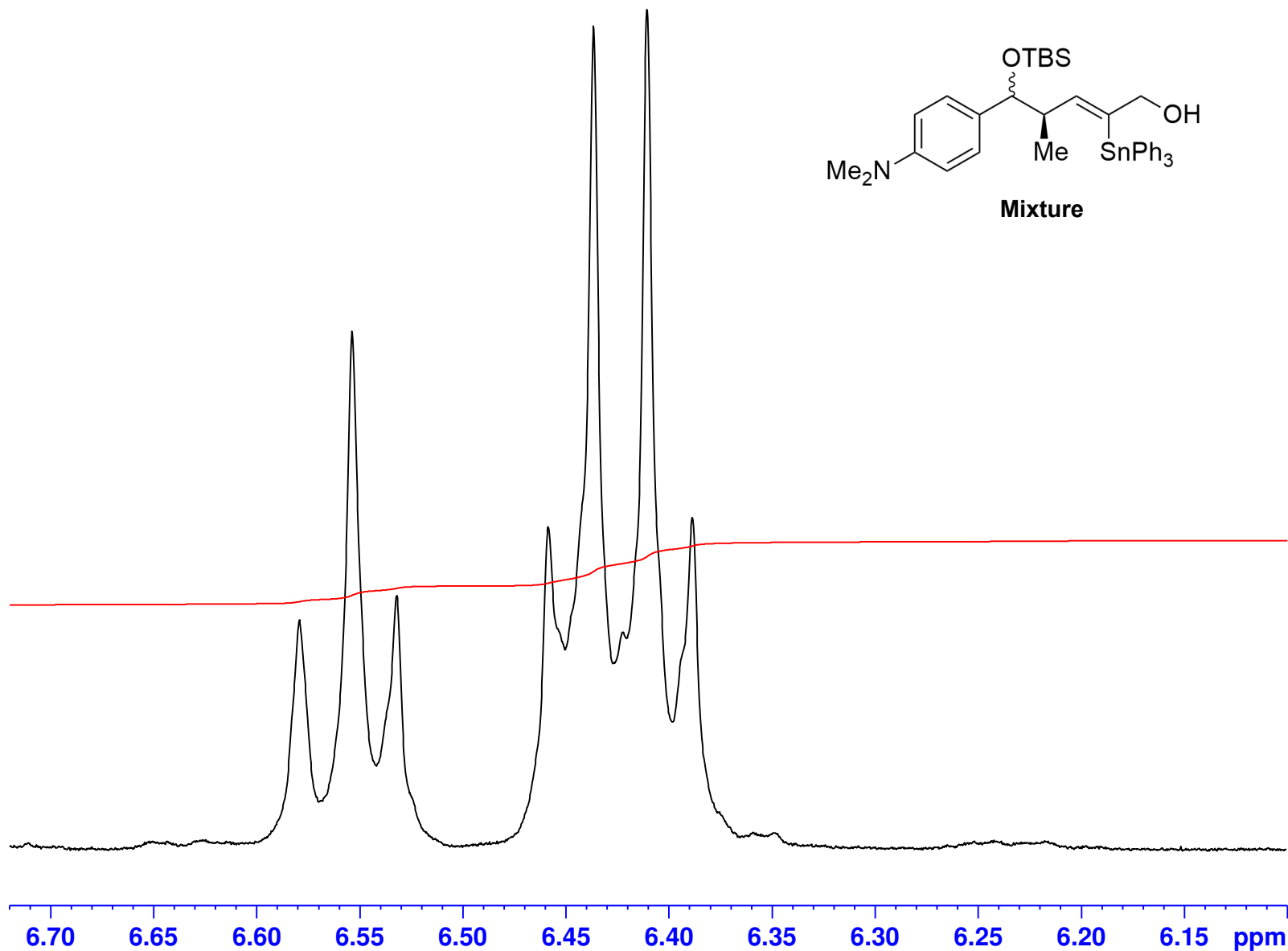


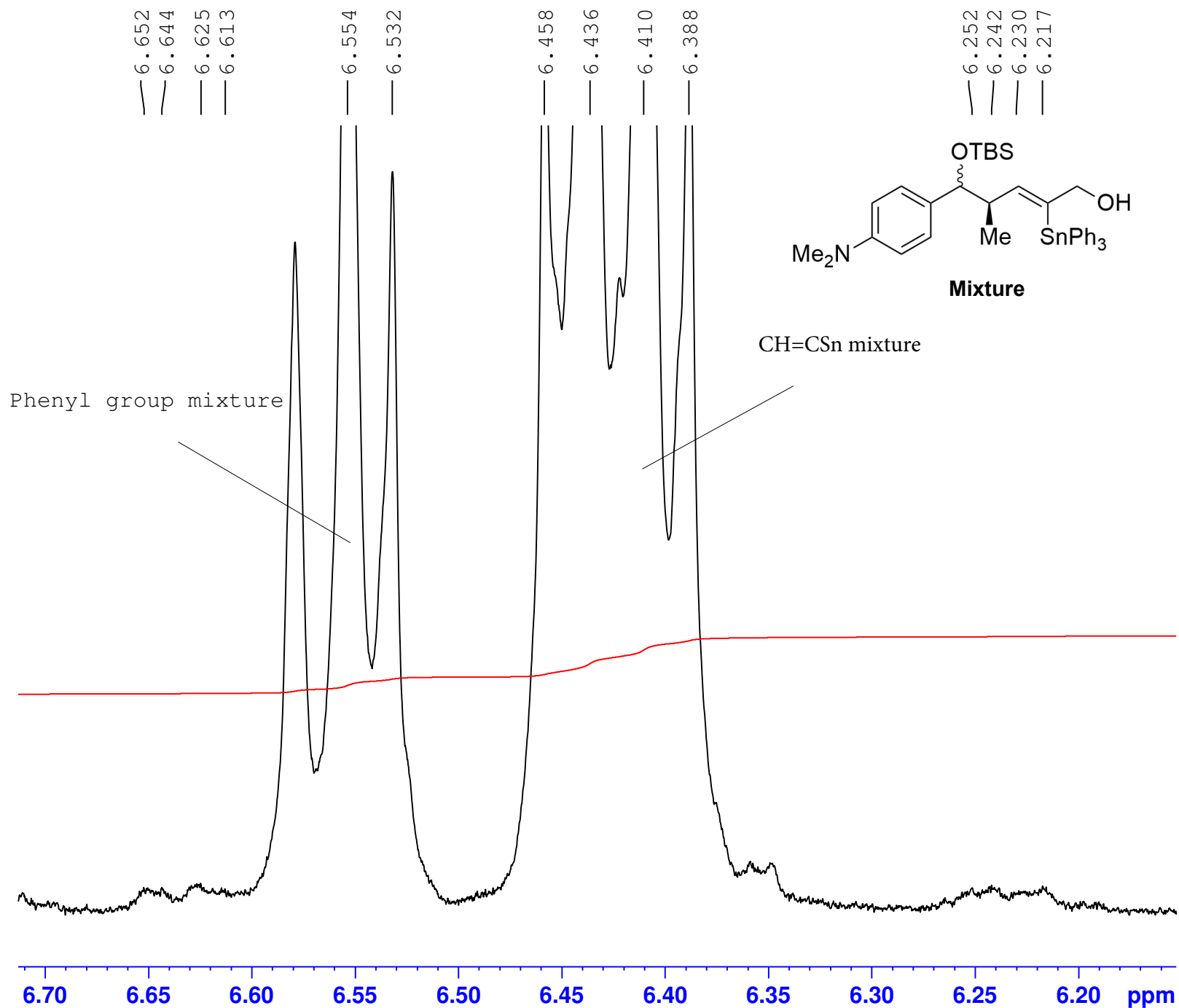
Current Data Parameters
NAME I-PK-282
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190524
Time 16.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME I-PK-282
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190524
 Time 16.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

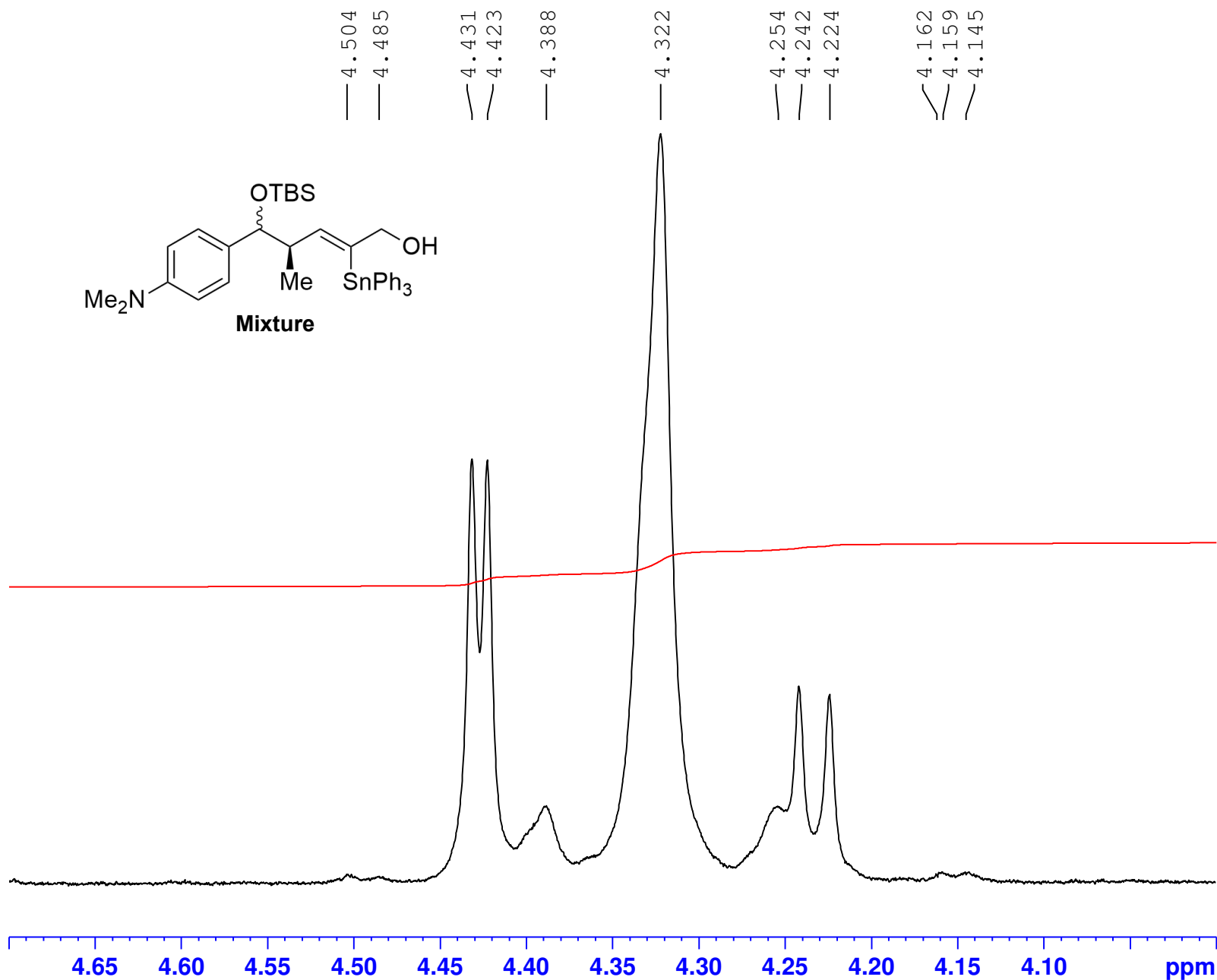
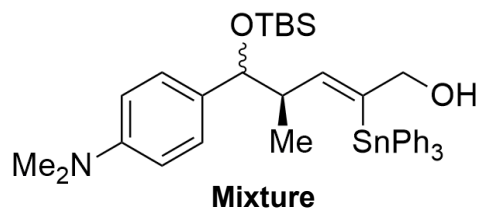


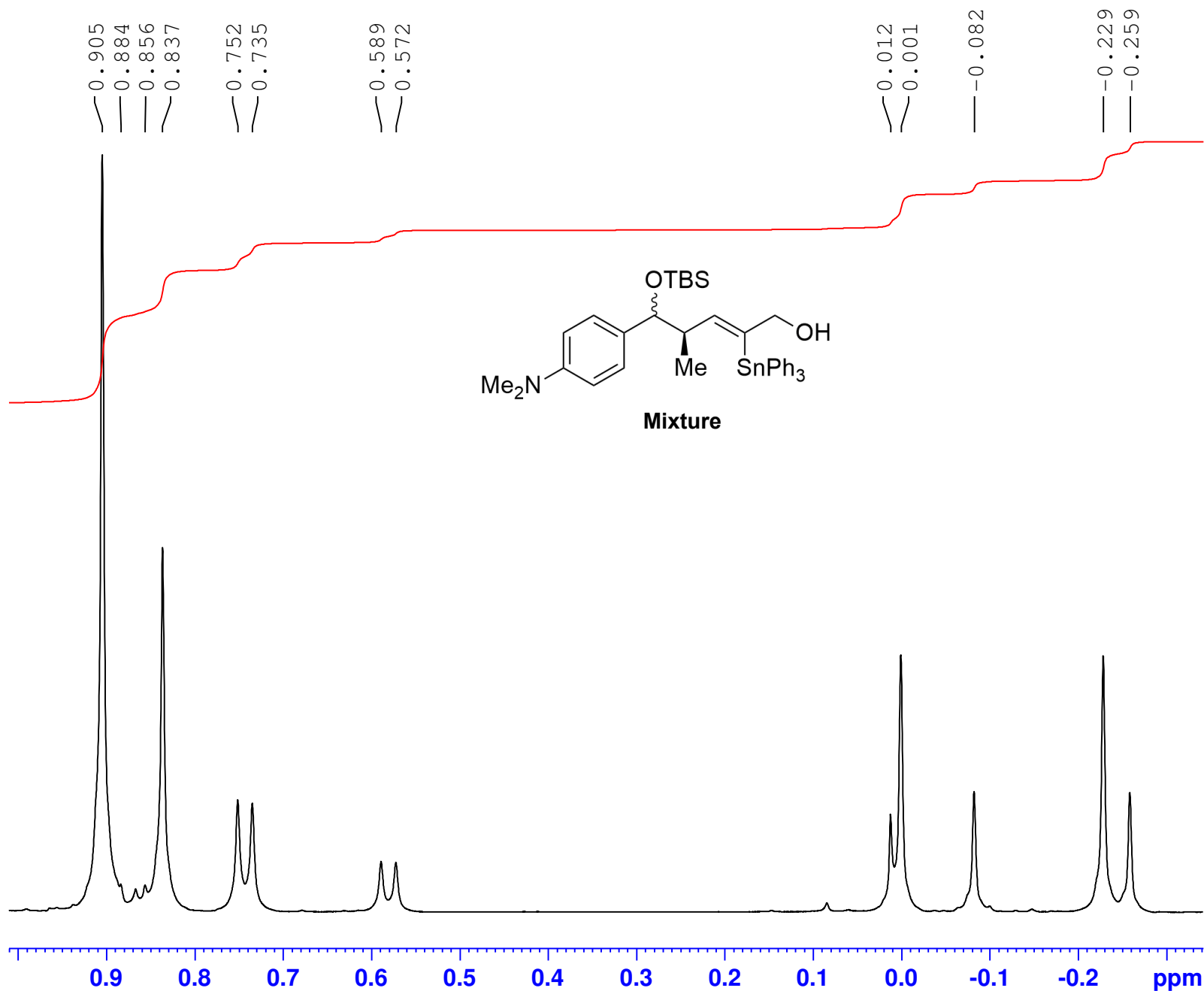
Current Data Parameters
NAME I-PK-282
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190524
Time 16.50
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME I-PK-282
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190524
 Time 16.50
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

139.71
139.44
139.17
138.81
137.41
137.32
137.22
137.13
137.04
136.93
136.71
136.60
131.57
128.97
128.91
128.85
128.69
128.60
128.45
128.34
128.20
127.89
126.79
111.81
111.71

79.34
77.32
77.20
77.12
77.00
76.68
70.53
70.35
70.29
70.06

47.34
47.12
40.65
40.61

29.69
25.93
25.86

18.27
17.60
13.76

-0.01
-4.44
-4.51
-4.99
-5.10



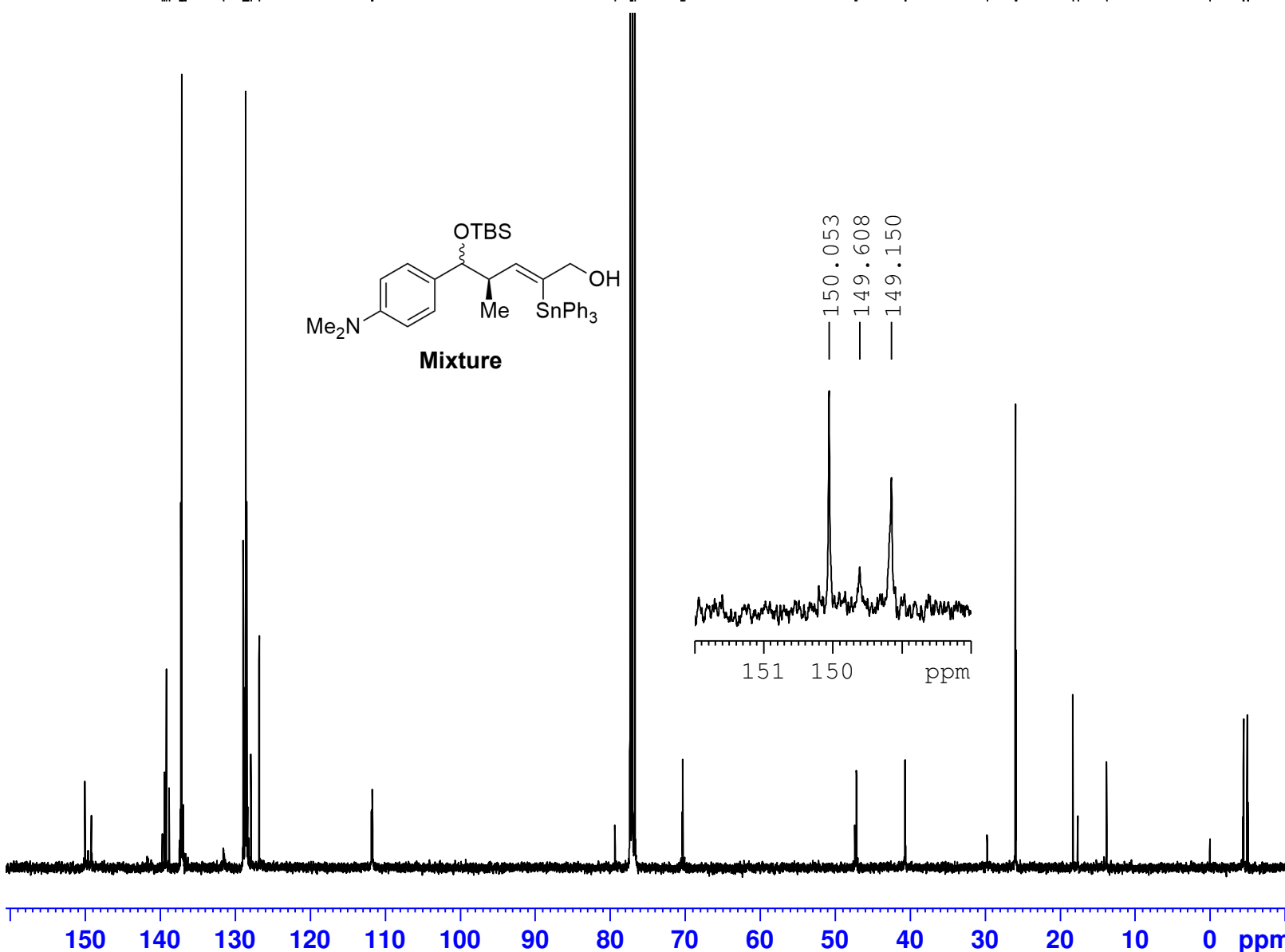
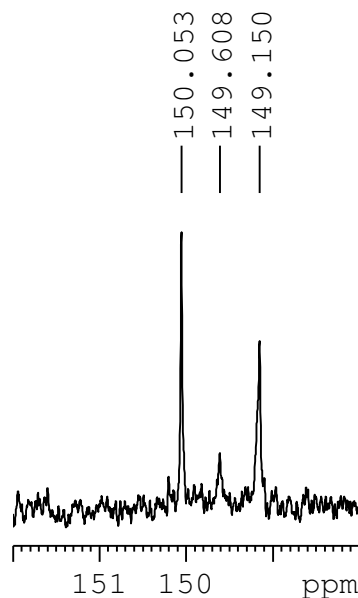
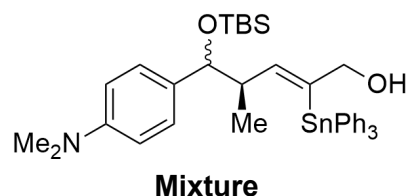
Current Data Parameters
NAME I-PK-282REPURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190524
Time 19.39
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549384 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





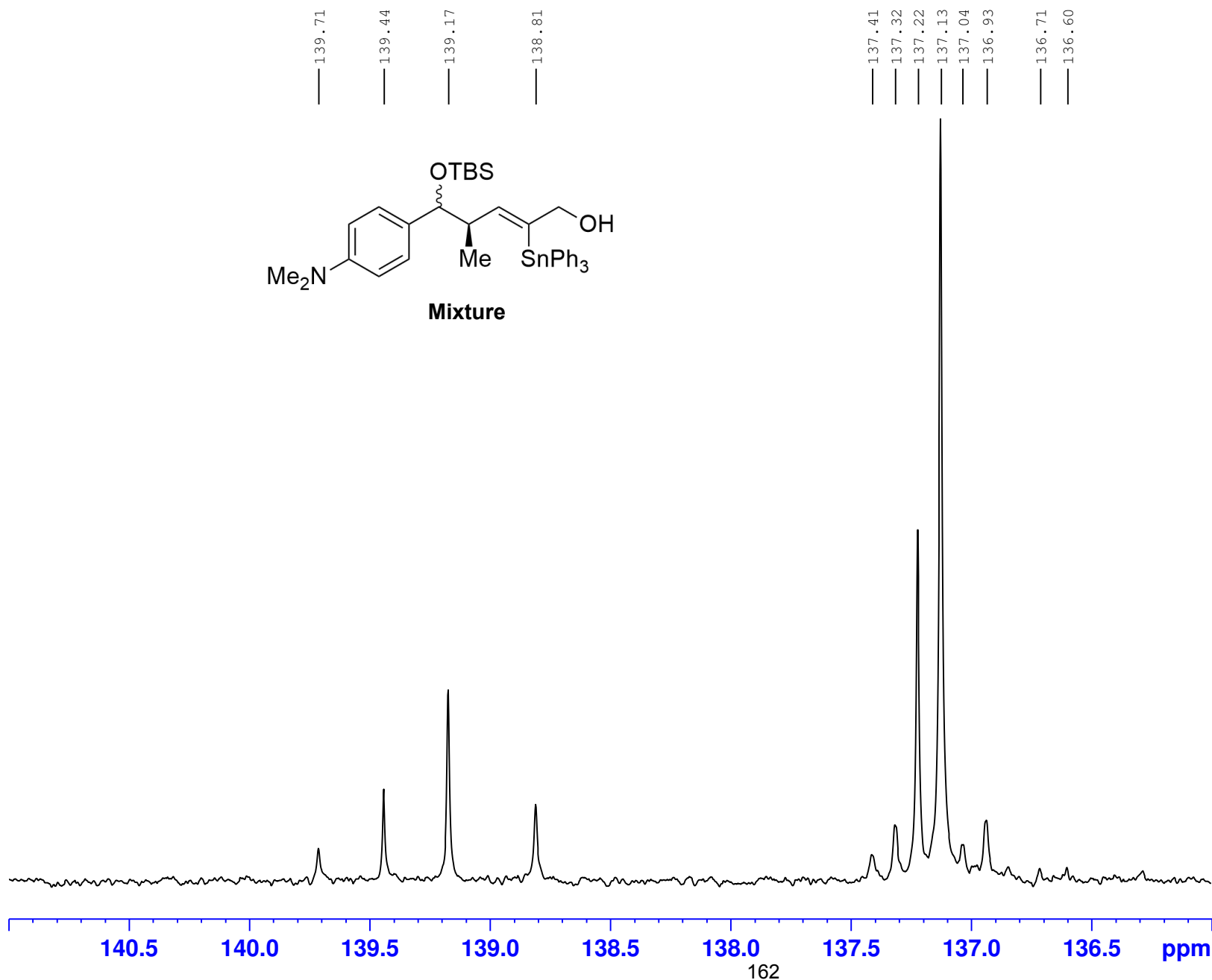
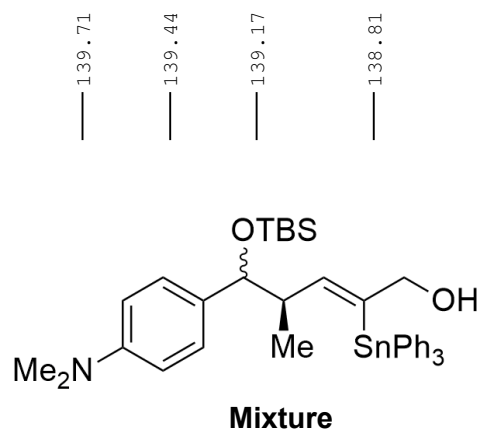
Current Data Parameters
NAME I-PK-282REPURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190524
Time 19.39
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549384 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





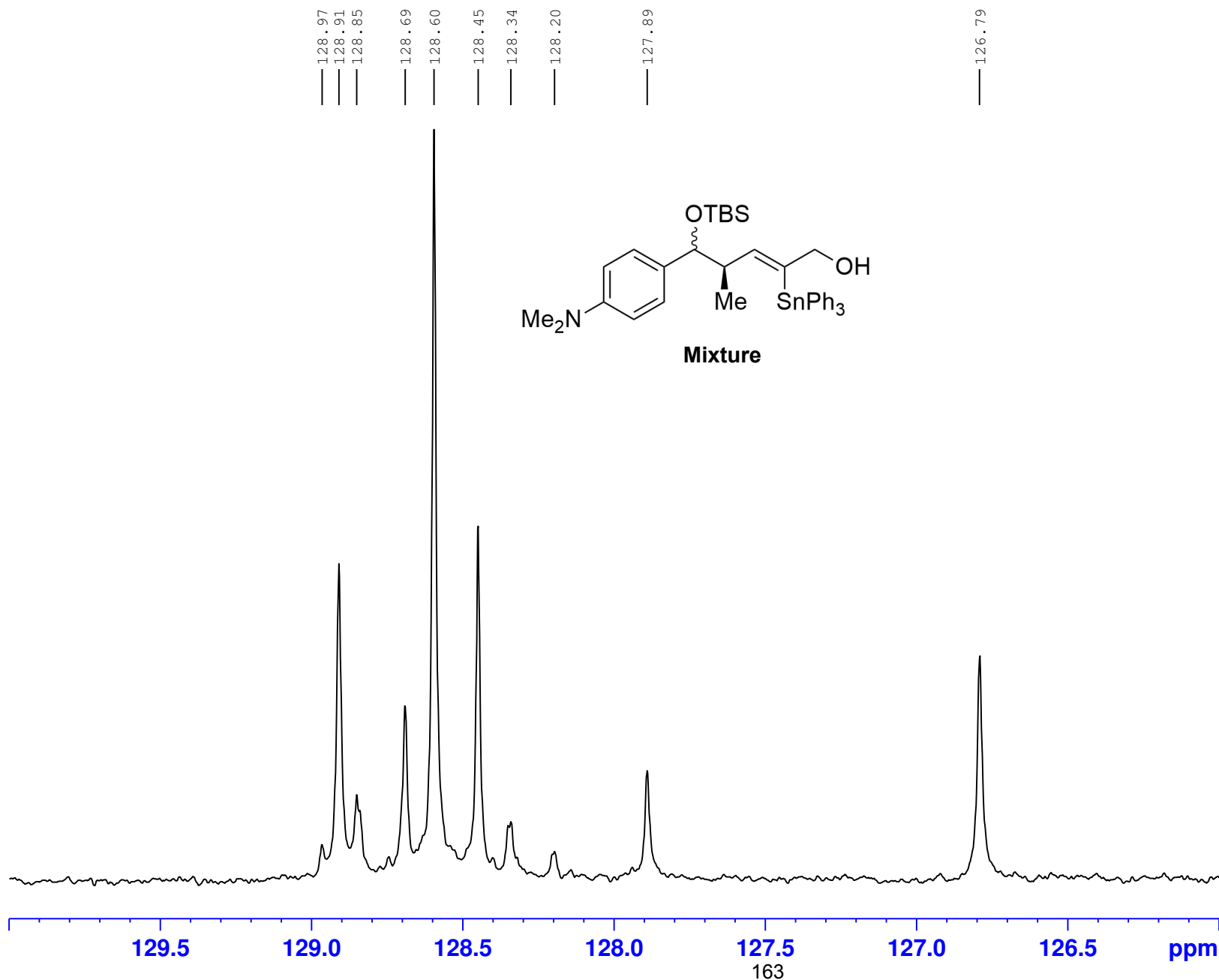
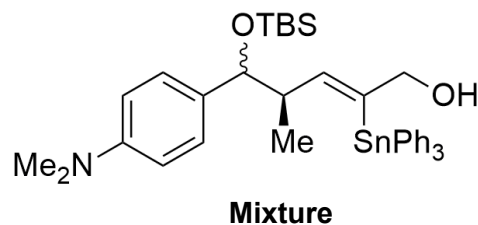
Current Data Parameters
NAME I-PK-282REPURE
EXPNO 11
PROCNO 1

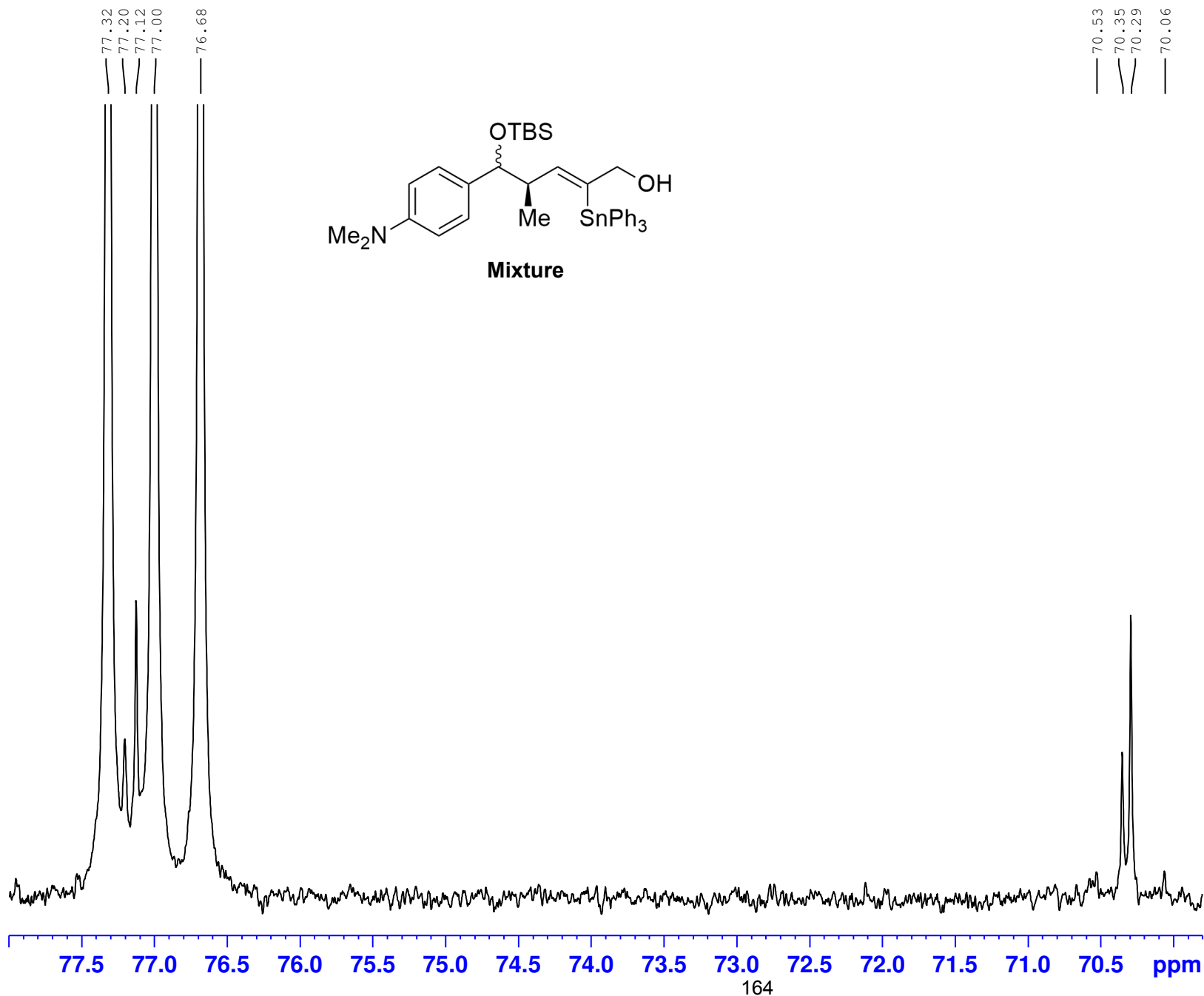
F2 - Acquisition Parameters
Date_ 20190524
Time 19.39
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDCl3
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549384 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME I-PK-282REPURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190524
 Time 19.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549384 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



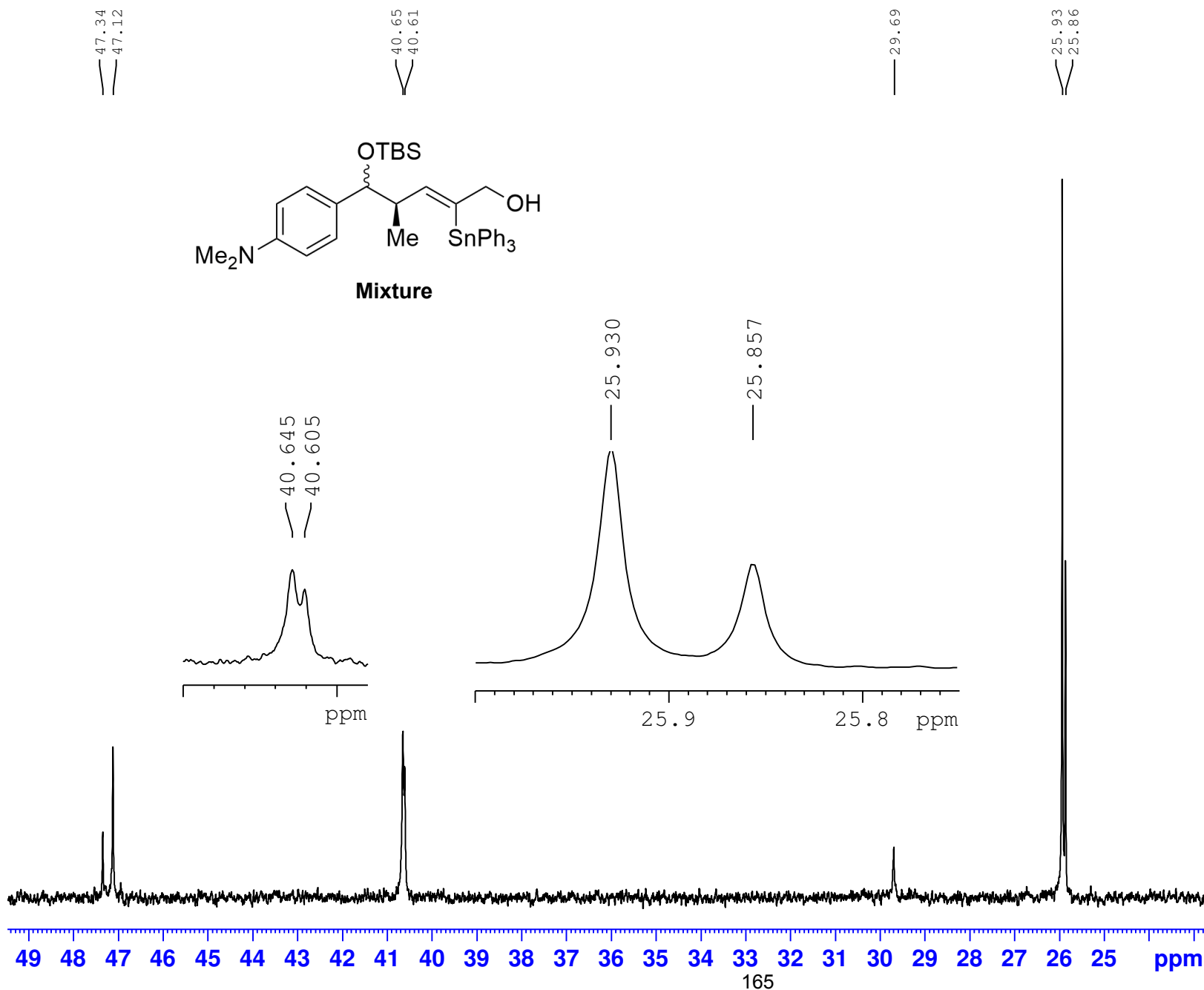
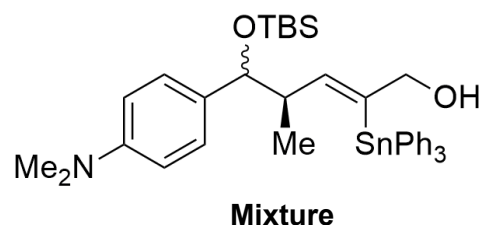
Current Data Parameters
 NAME I-PK-282REPURE
 EXPNO 11
 PROCNO 1

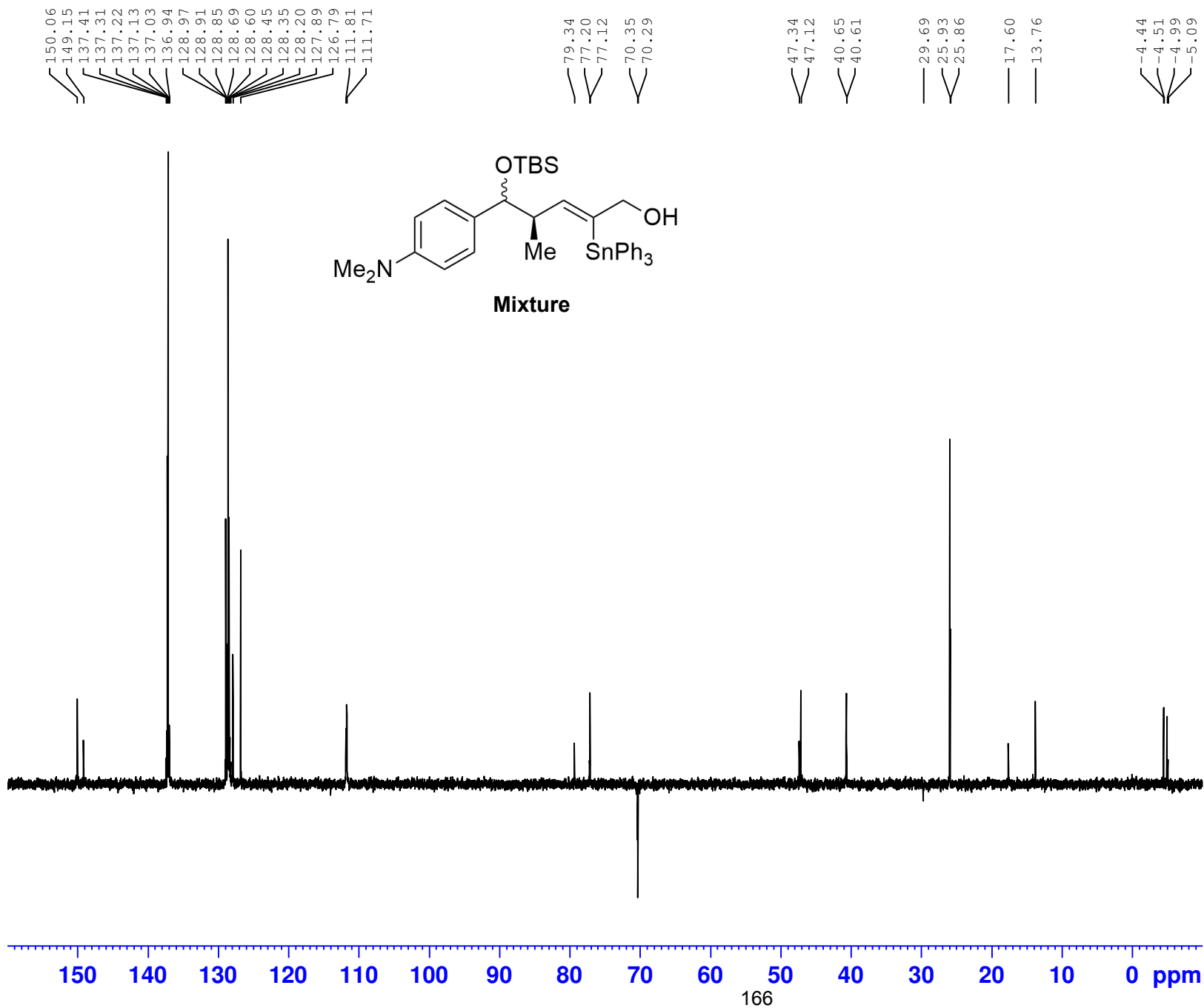
F2 - Acquisition Parameters
 Date_ 20190524
 Time 19.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549384 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





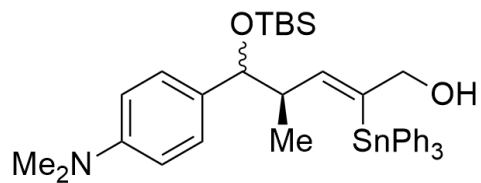
Current Data Parameters
 NAME I-PK-282REPURE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190524
 Time 19.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 1820
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549381 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Mixture



Current Data Parameters
NAME I-PK-282REPURE
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date 20190524
Time 19.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpmfppqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 3770.739 Hz
FIDRES 1.841181 Hz
AQ 0.2715648 sec
RG 2050
DW 132.600 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.87425190 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
INO 0.00026520 sec

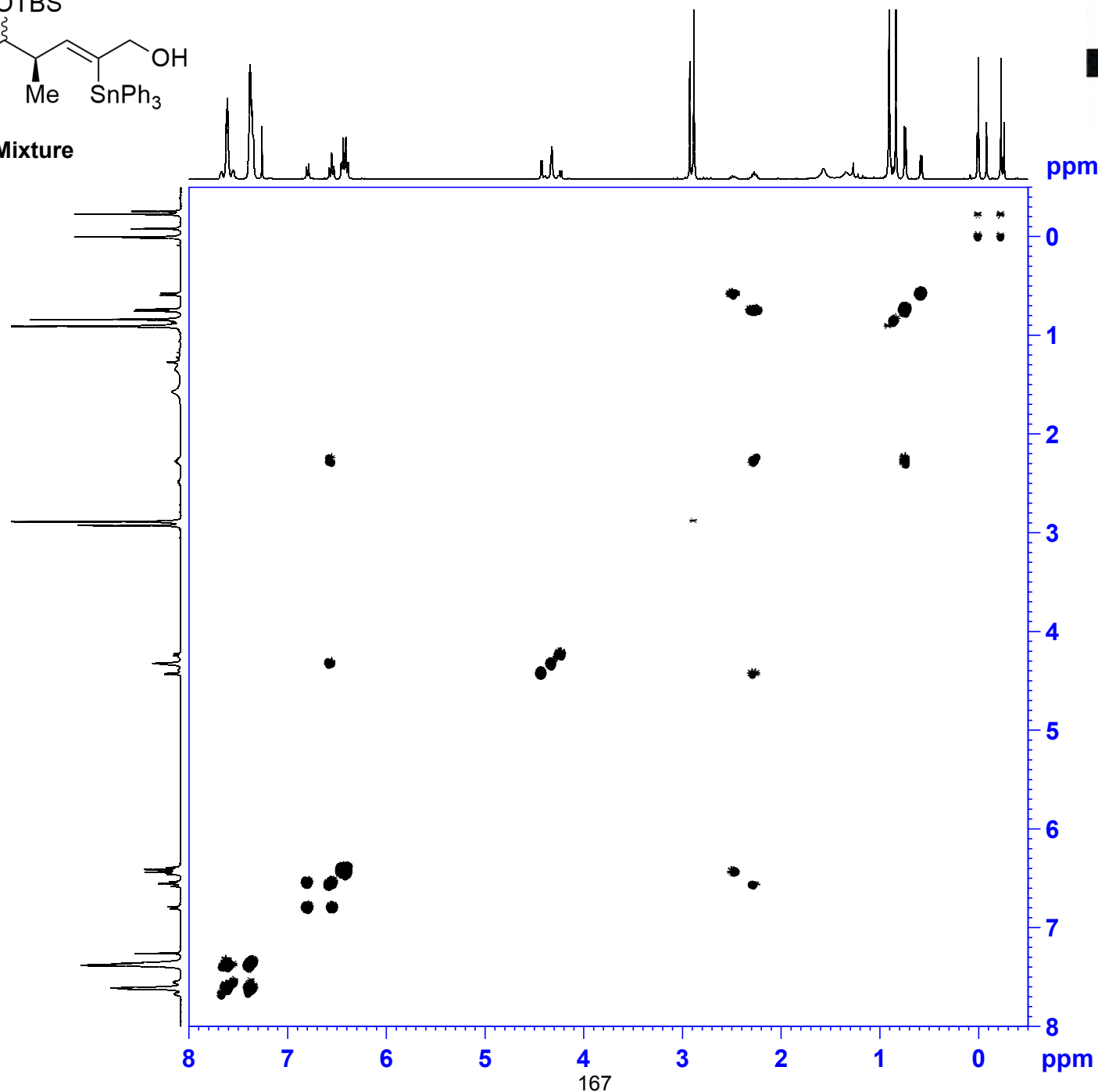
===== CHANNEL f1 =====
SFO1 399.9014964 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

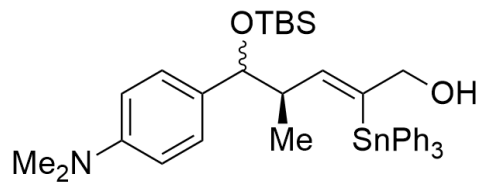
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 399.9015 MHz
FIDRES 29.458899 Hz
SW 9.429 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.9000113 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.9000118 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





Mixture



Current data parameters
NAME I-PK-282REPURE
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190524
Time 20.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgpp.3
TD 1024
SOLVENT CDCl₃
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 300.1 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
IN0 0.00001910 sec

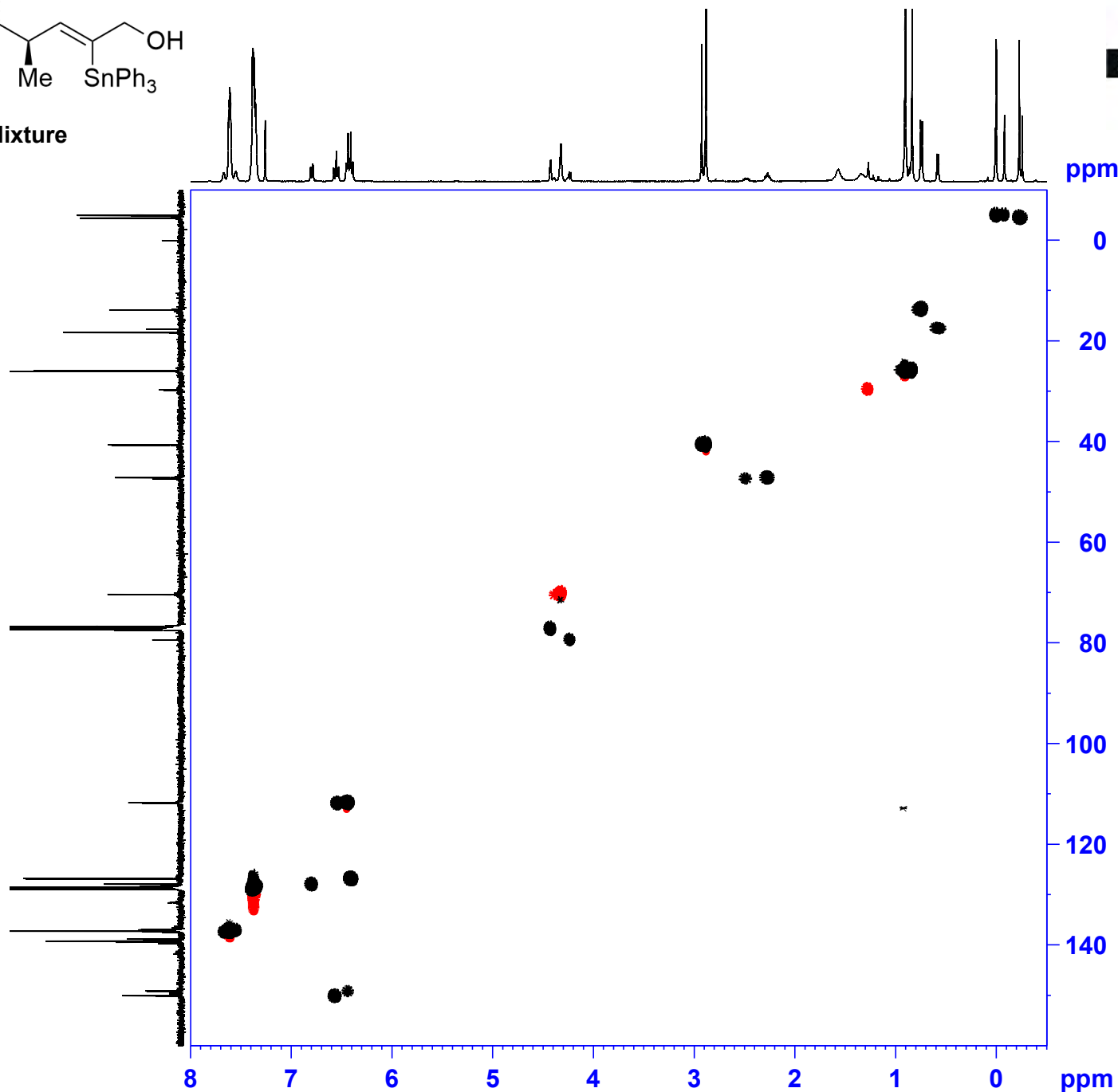
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.59999990 W

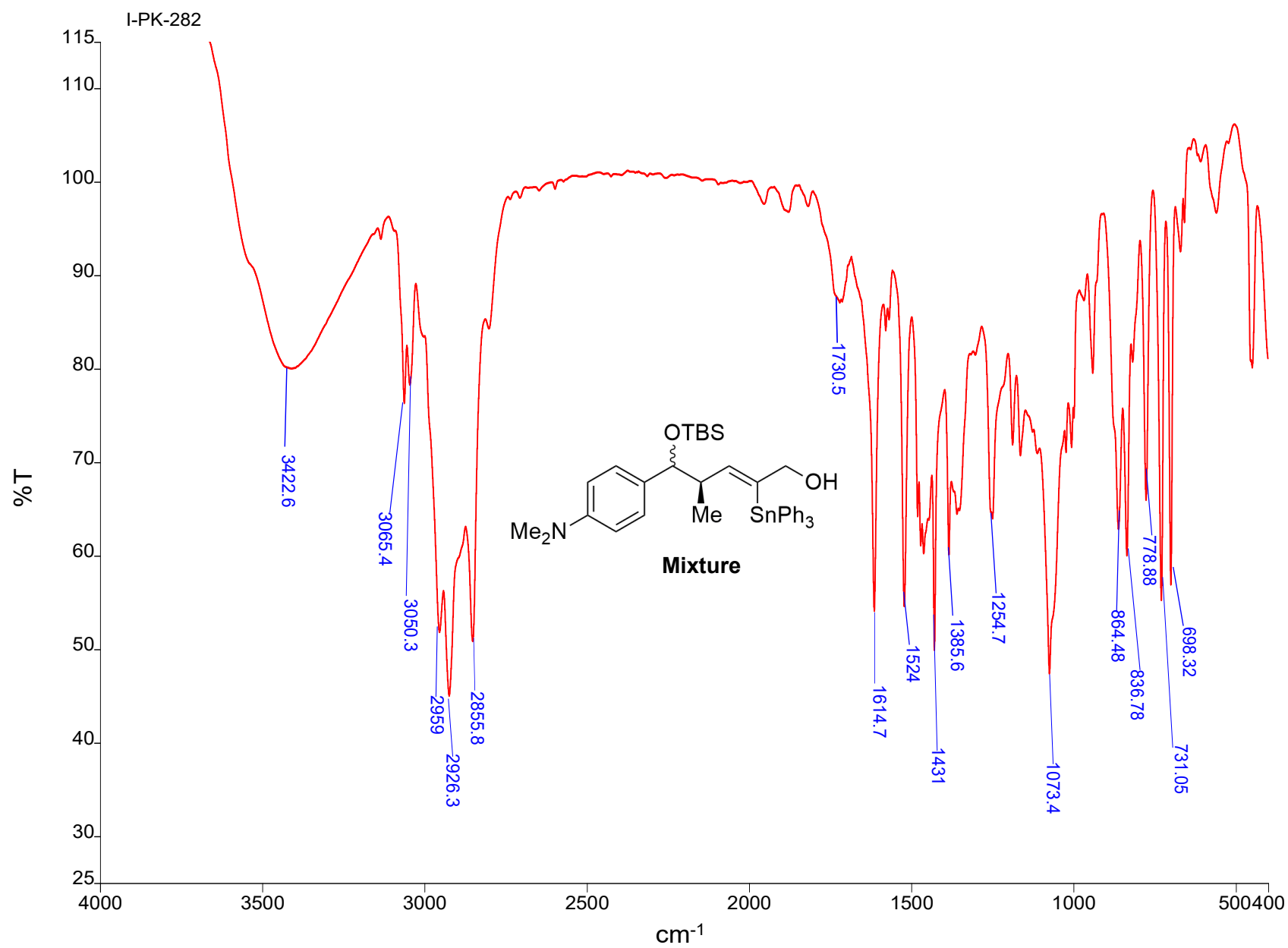
===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garp4
F3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SPNAM[3] Crp60,0.5,20.1
SPOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SPNAM[18] Crp60_xfilt.2
SPOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.315701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 399.9000104 MHz
WDW QSINE
~





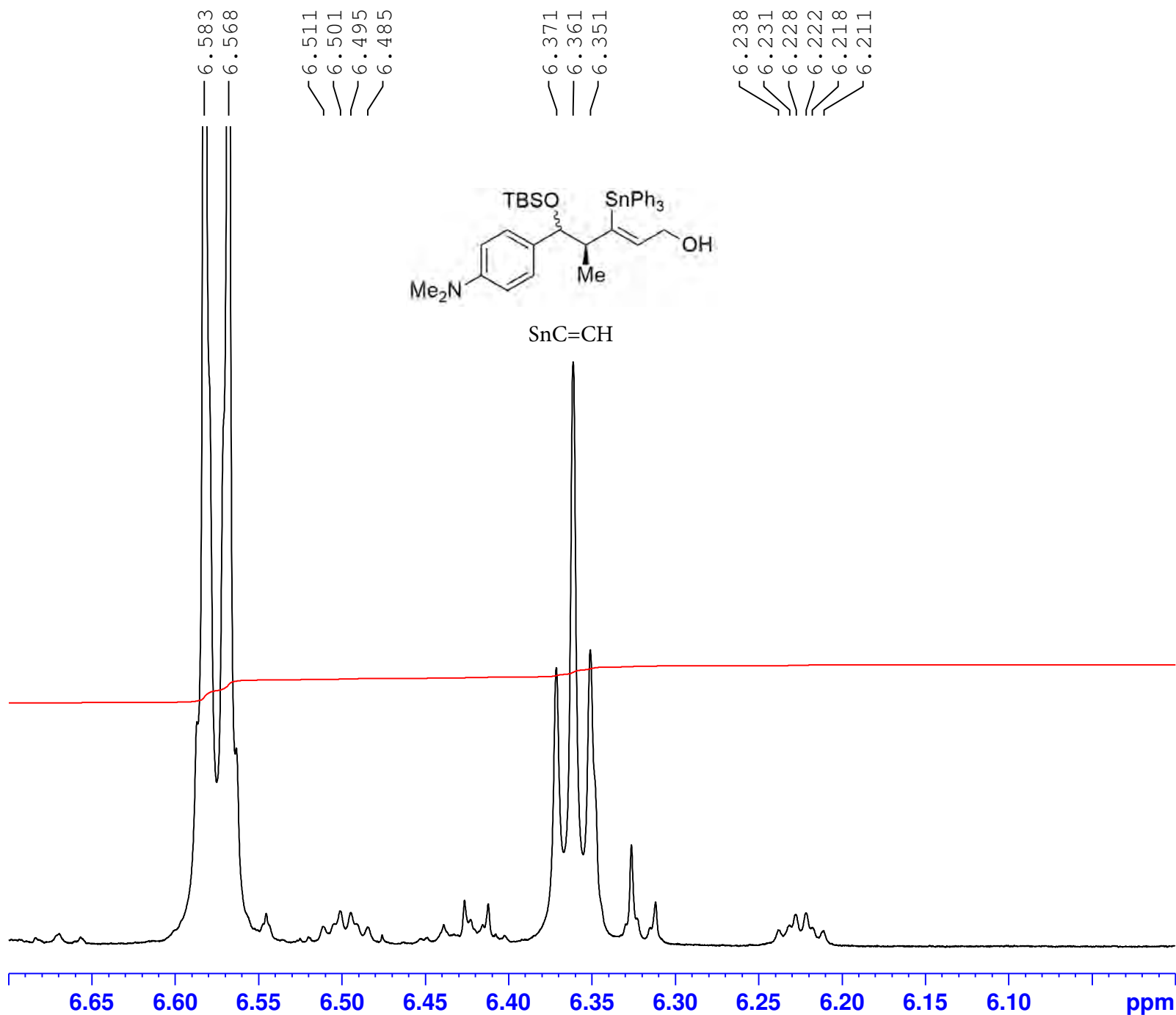


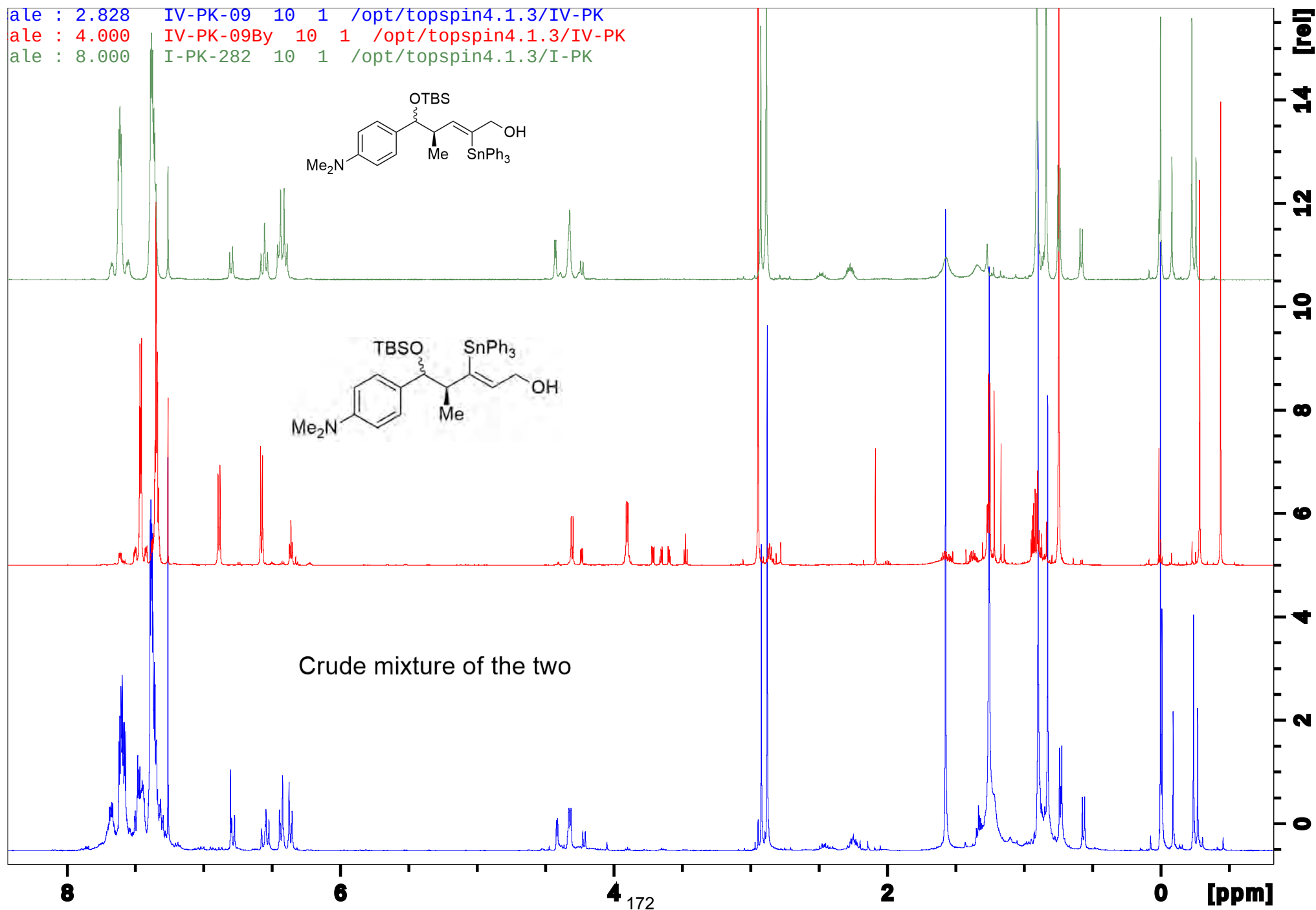
Current Data Parameters
 NAME IV-PK-09By
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201217
 Time 15.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 43.25
 DW 27.733 usec
 DE 7.60 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300147 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00





NMe₂ of the crude mixture

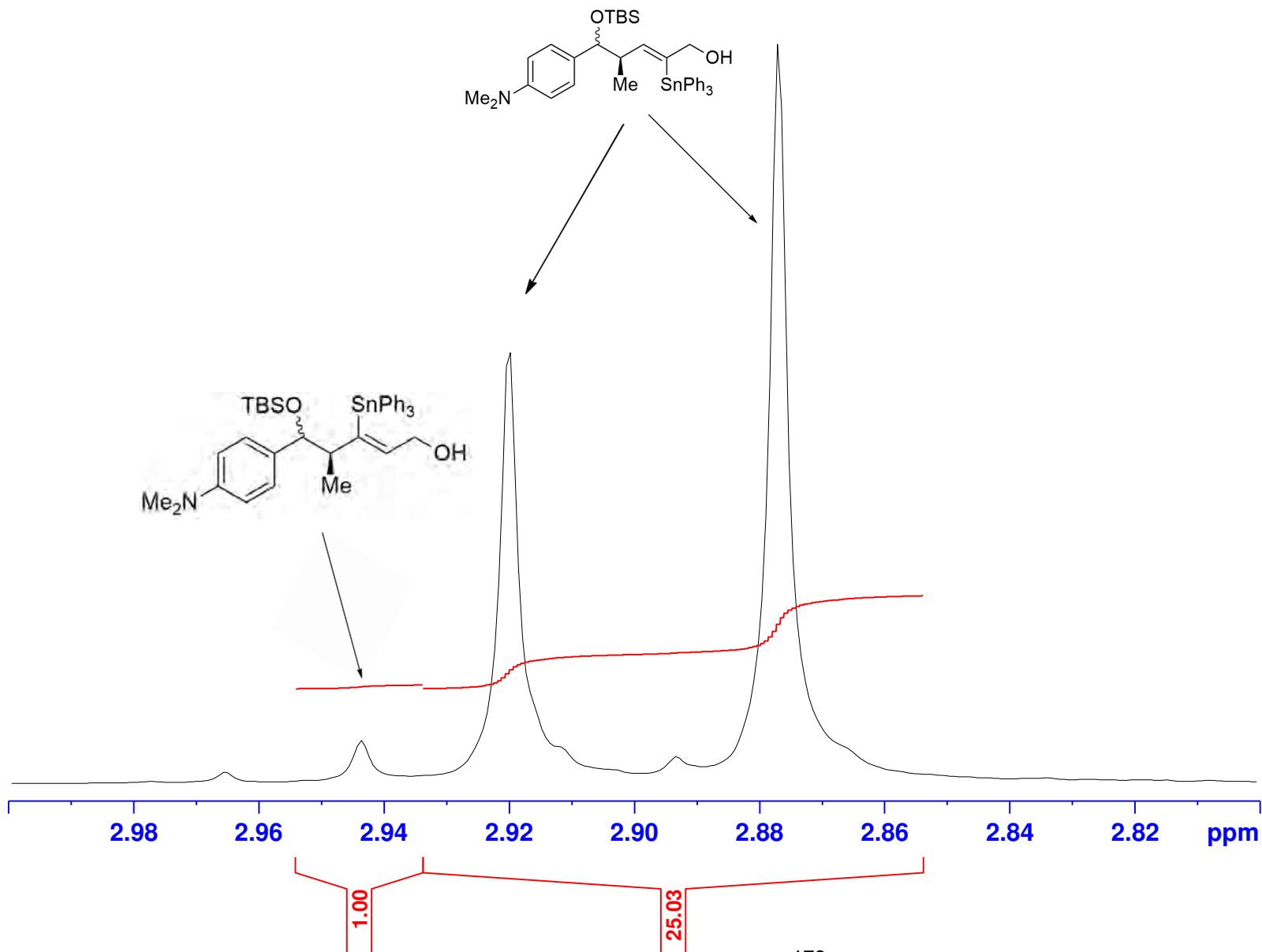


Current Data Parameters
 NAME IV-PK-09
 EXPNO 10
 PROCNO 1

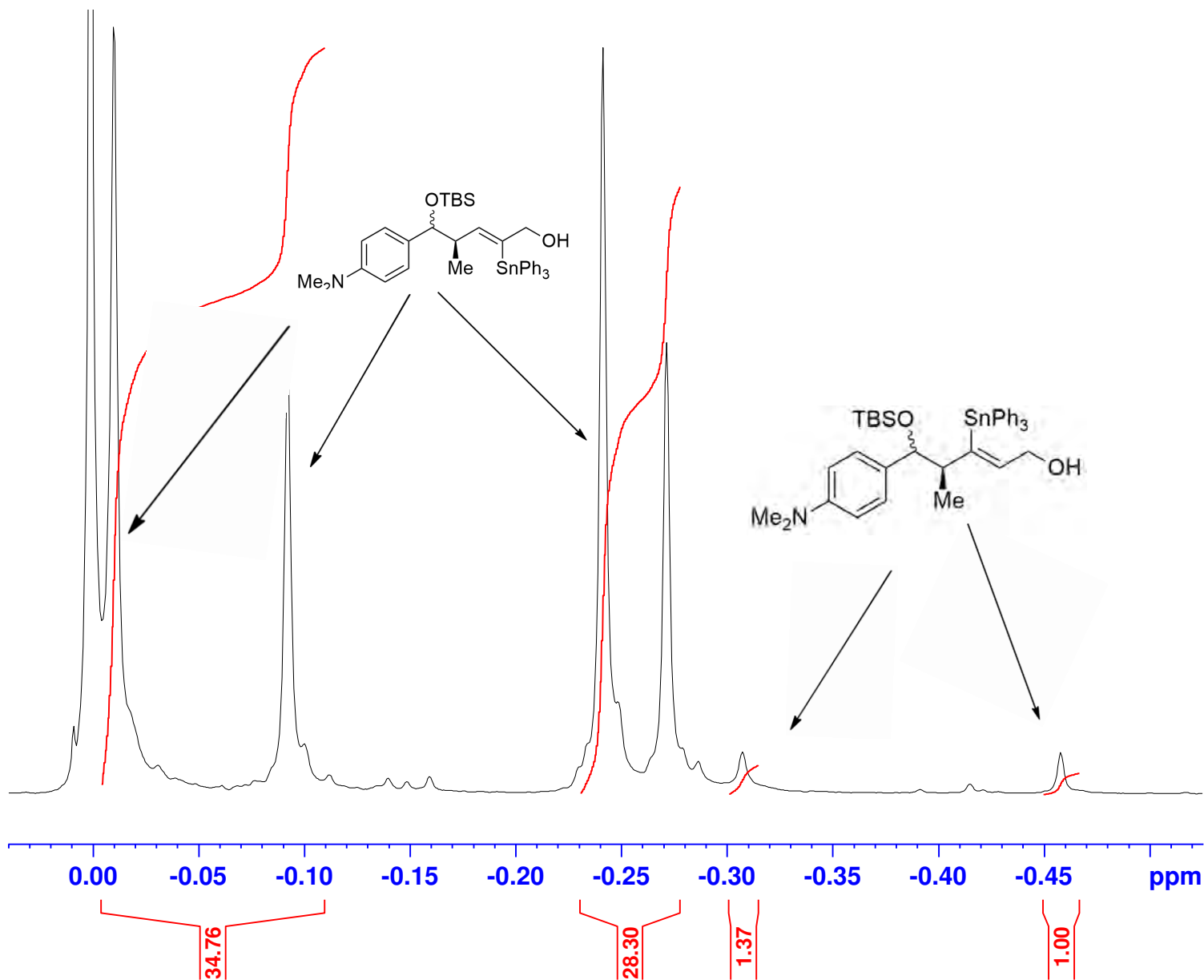
F2 - Acquisition Parameters
 Date_ 20201028
 Time 10.55
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl₃
 NS 128
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 80.6
 DW 60.800 usec
 DE 6.50 usec
 TE 290.9 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100098 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



SiMe₂ of the crude mixture



Current Data Parameters
 NAME IV-PK-09
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201028
 Time 10.55
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl₃
 NS 128
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 80.6
 DW 60.800 usec
 DE 6.50 usec
 TE 290.9 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.2919982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100098 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

7.260
7.110
7.088
6.673
6.651

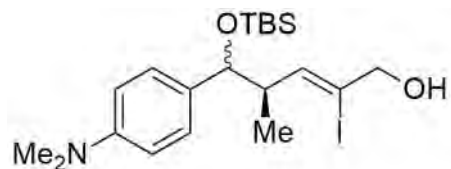
5.730
5.707

4.501
4.487
4.203

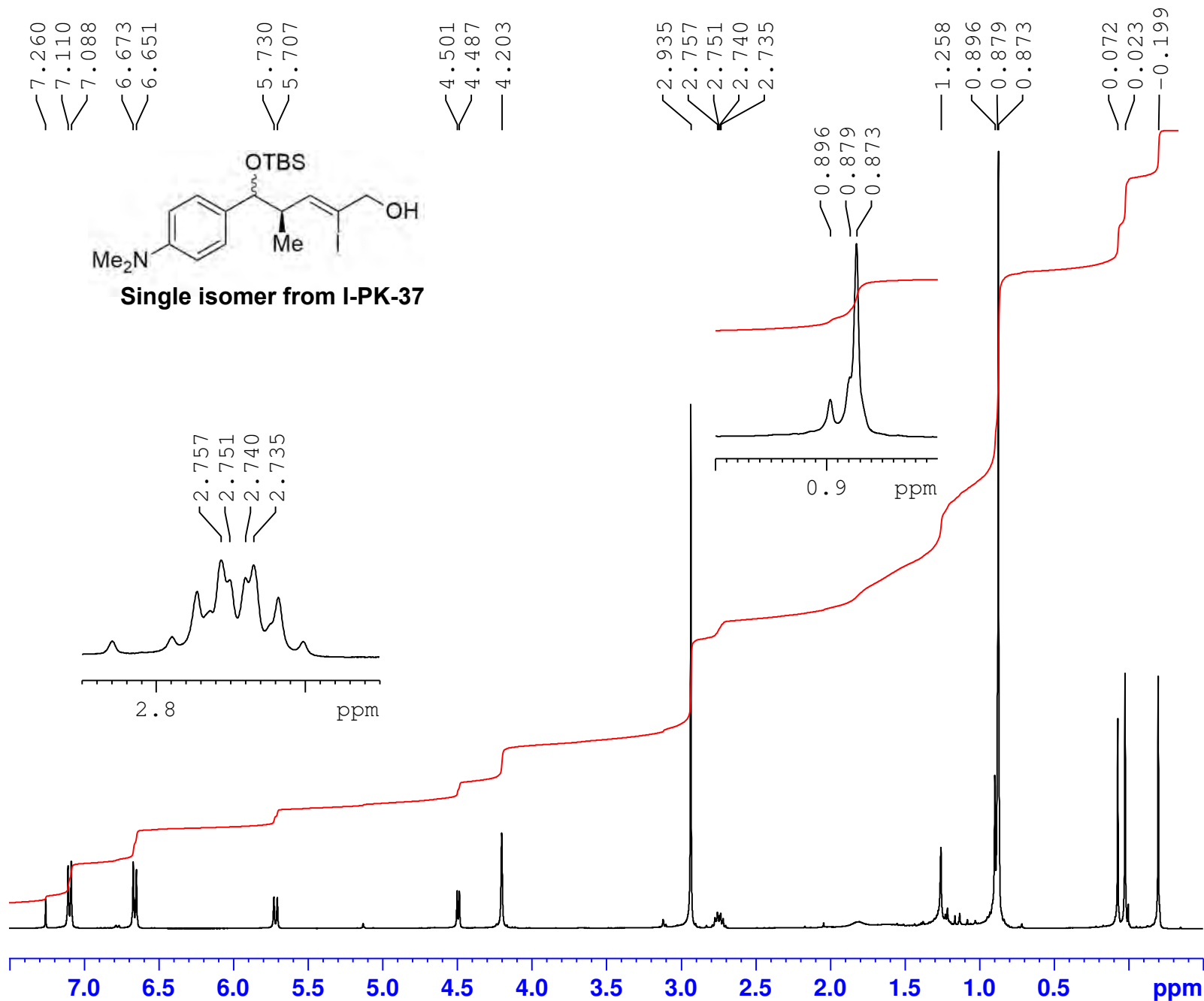
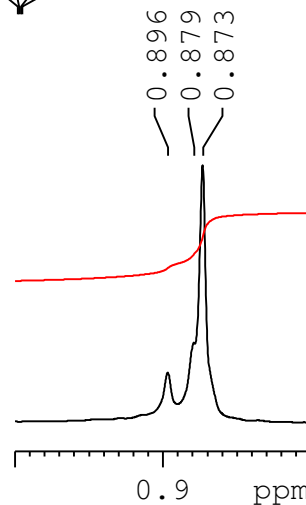
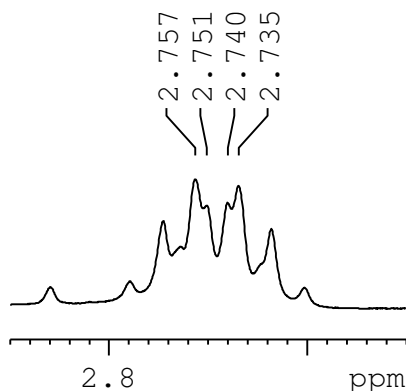
2.935
2.757
2.751
2.740
2.735

1.258
0.896
0.879
0.873

0.072
0.023
0.199



Single isomer from I-PK-37



Current Data Parameters
NAME I-PK-62
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180329
Time 3.19
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 64
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

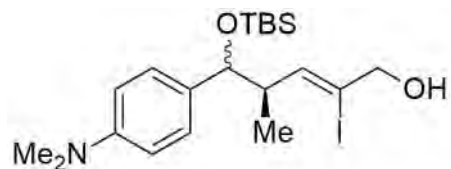
— 7.260
 < 7.110
 < 7.088

< 6.673
 < 6.651

< 5.730
 < 5.707

< 4.501
 < 4.487

— 4.203



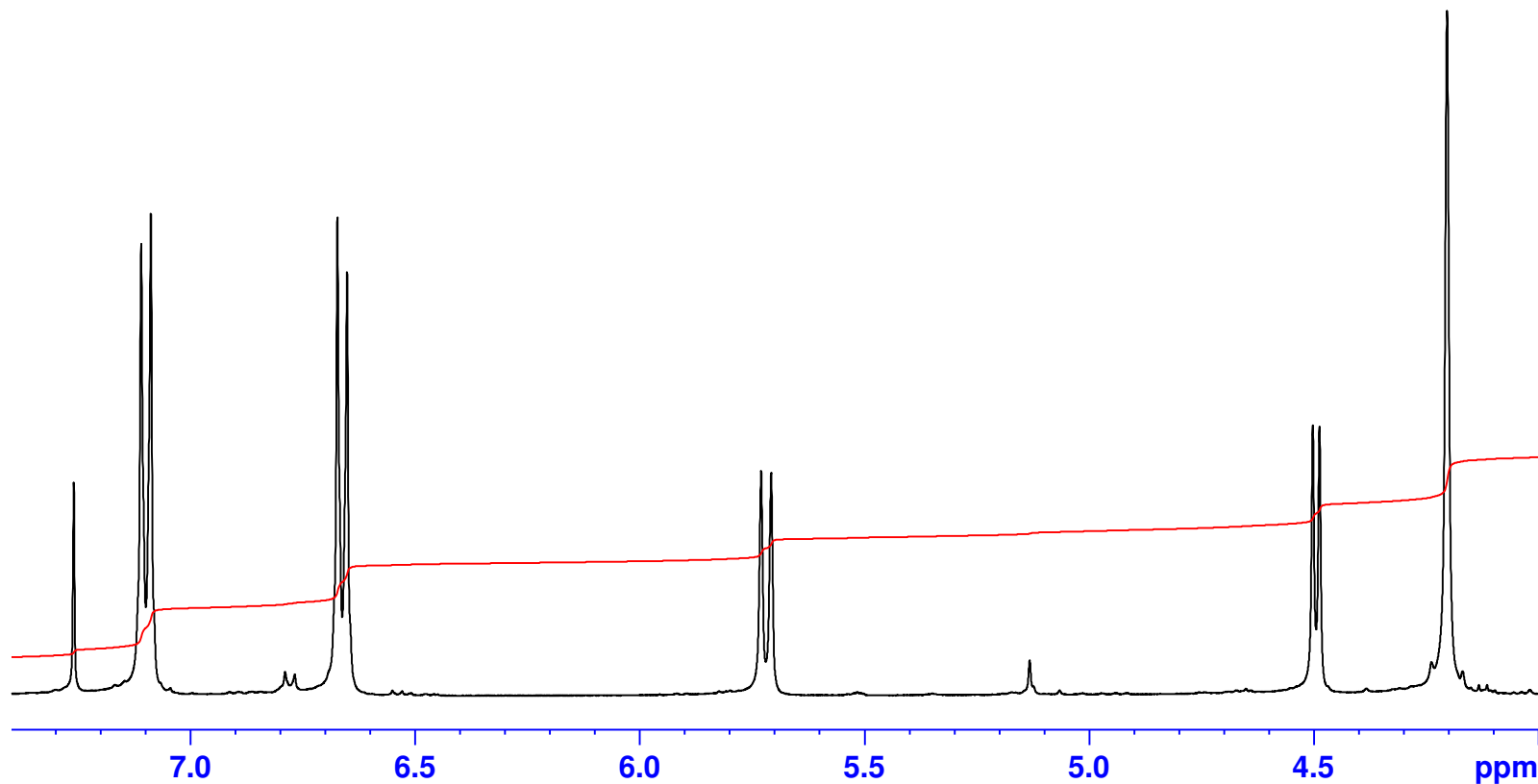
Single isomer from I-PK-37

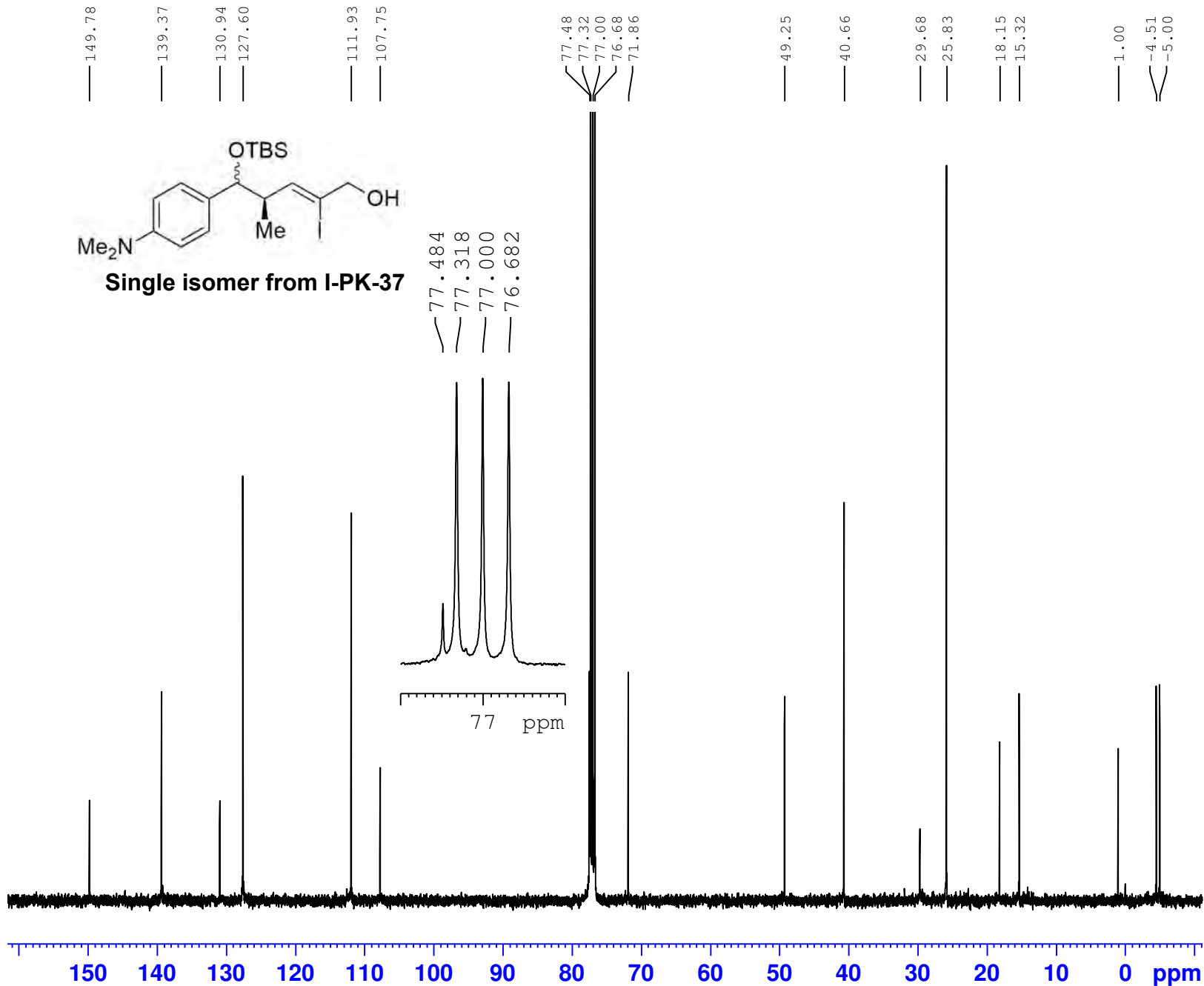
Current Data Parameters
 NAME I-PK-62
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180329
 Time 3.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 64
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000096 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00





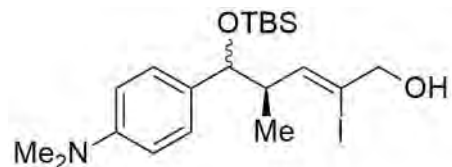
Current Data Parameters
 NAME I-PK-62
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180329
 Time 4.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

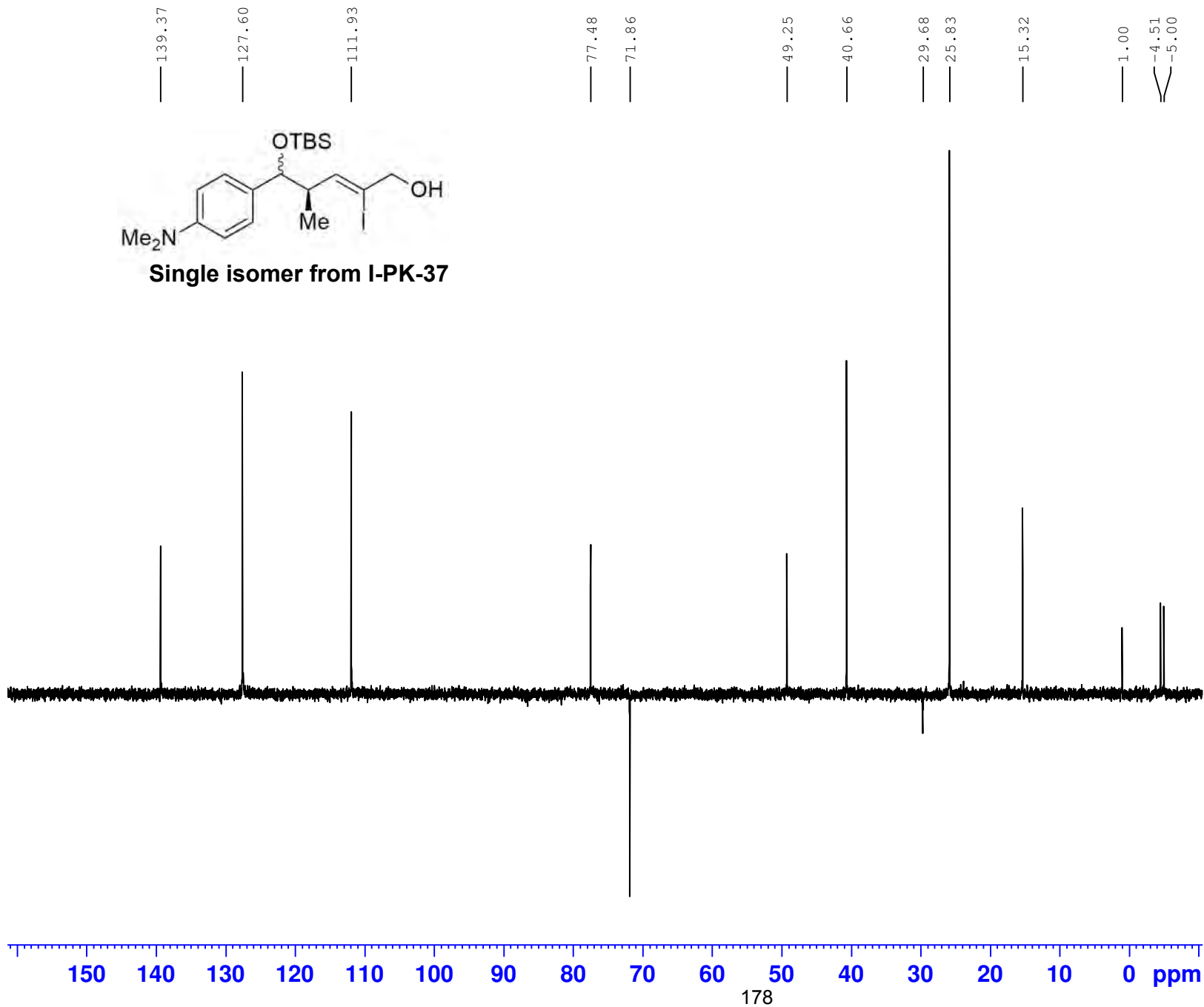
===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549375 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Single isomer from I-PK-37



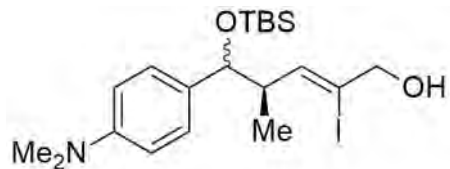
Current Data Parameters
NAME I-PK-62
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180329
Time 4.47
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

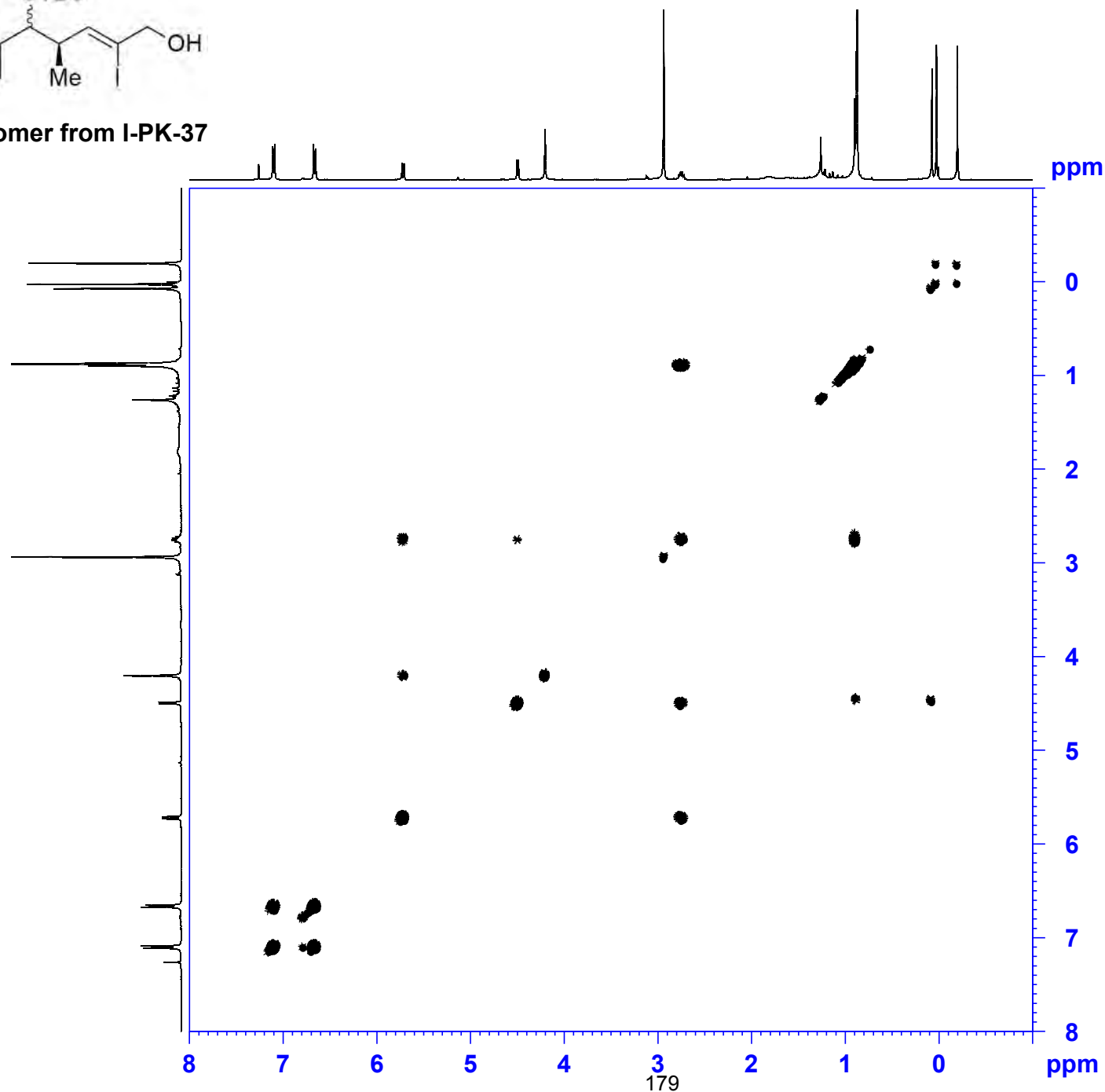
===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5549373 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Single isomer from I-PK-37



Current Data Parameters
NAME I-PK-62
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180329
Time 4.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpmfppqf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 4401.409 Hz
FIDRES 2.149125 Hz
AQ 0.2326528 sec
RG 2050
DW 113.600 usec
DE 6.50 usec
TE 300.0 K
D0 0.00000300 sec
D1 0.91725987 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00022720 sec

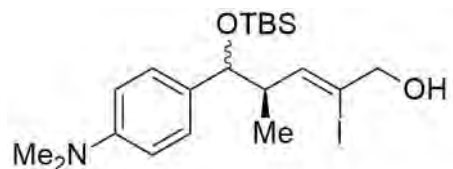
===== CHANNEL f1 =====
SF01 399.9017944 MHz
NUC1 1H
P1 14.88 usec
P17 2500.00 usec
PLW1 7.59999990 W
PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

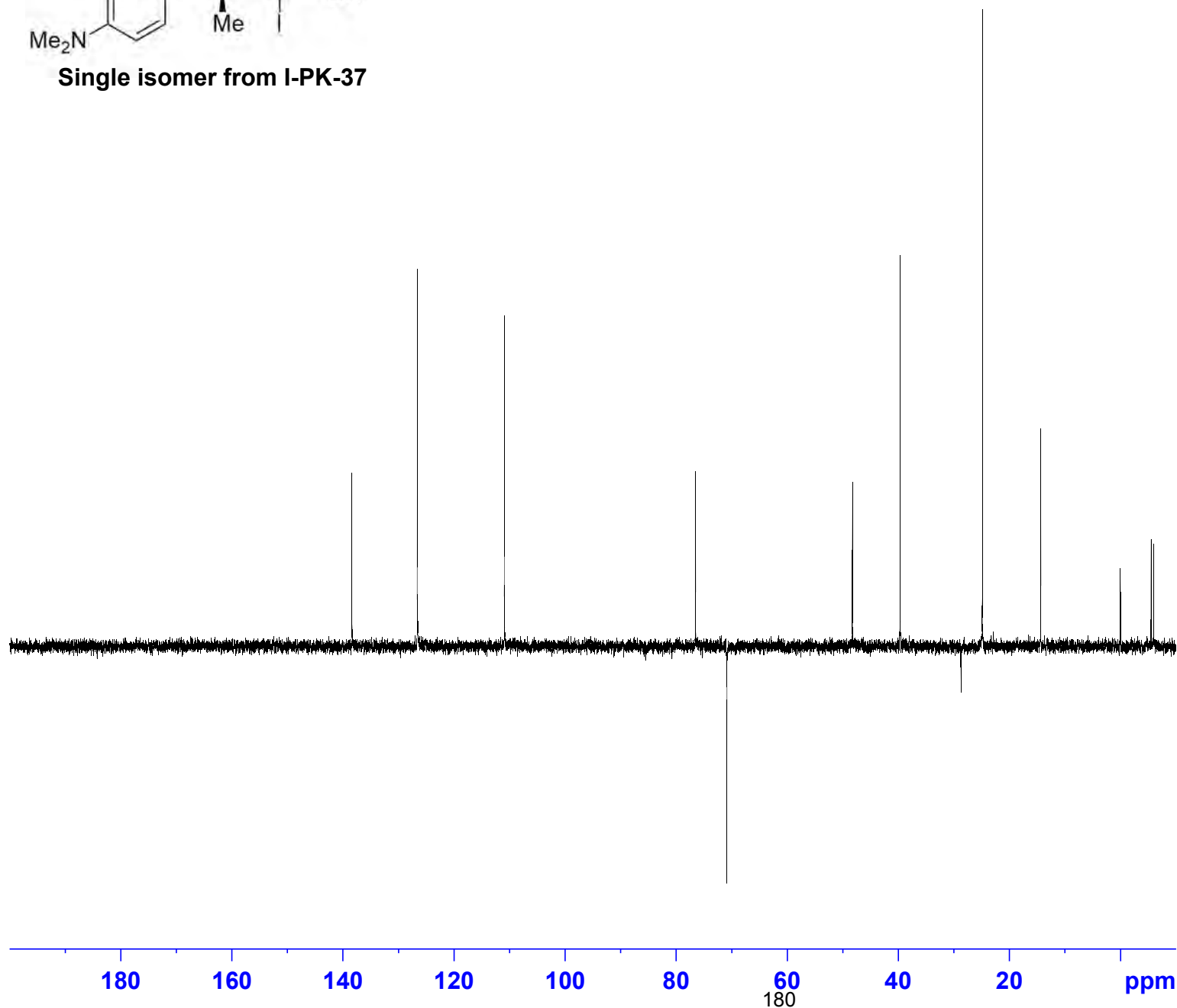
F1 - Acquisition parameters
TD 256
SF01 399.9018 MHz
FIDRES 34.386005 Hz
SW 11.006 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 399.9000079 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 399.9000095 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0



Single isomer from I-PK-37



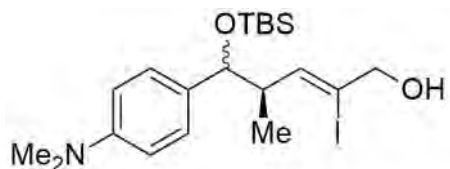
Current Data Parameters
NAME I-PK-62
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180329
Time_ 4.47
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG deptspl35
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

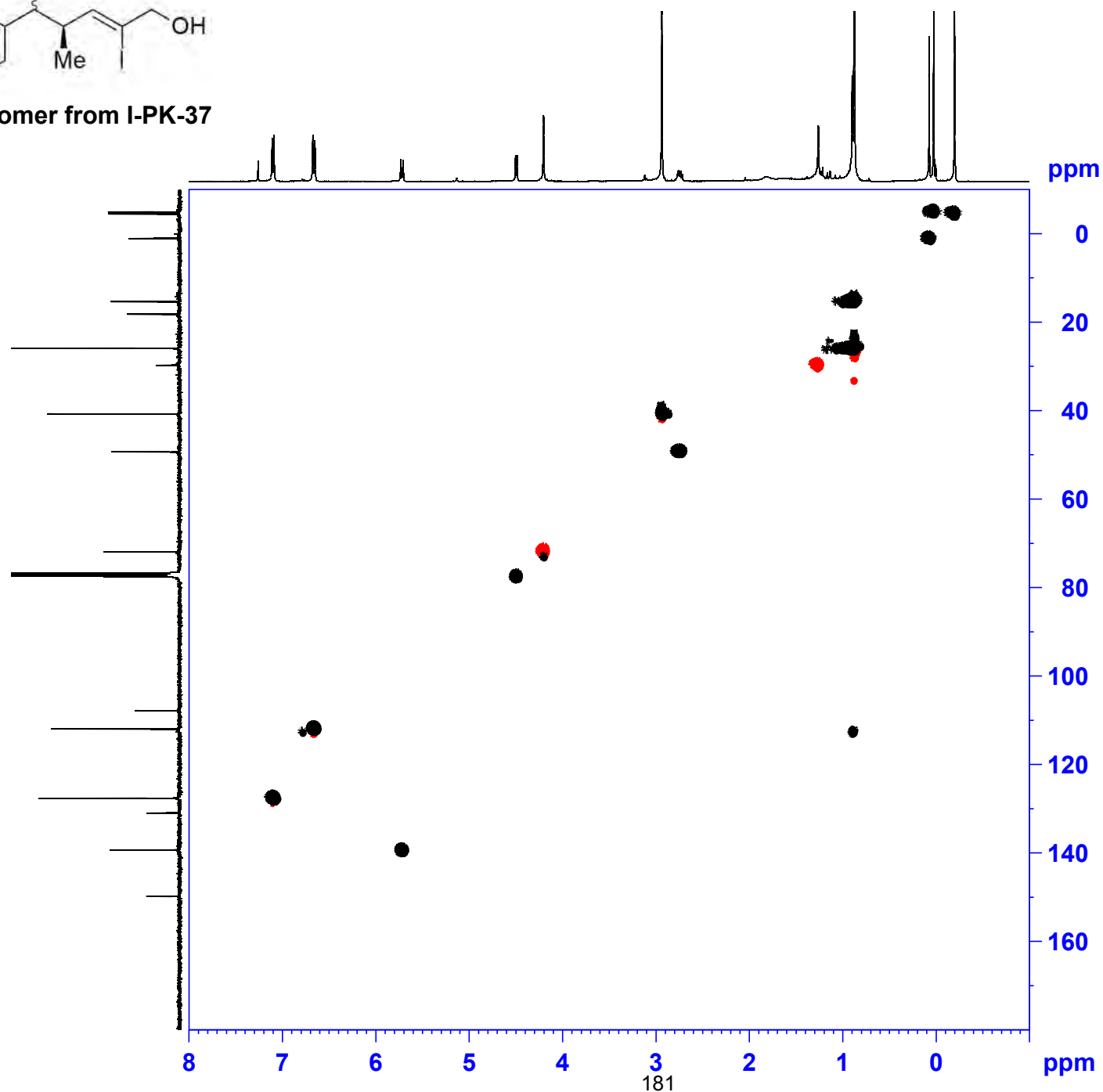
===== CHANNEL f1 =====
SFO1 100.5649905 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 44.46300125 W
SPNAM[5] Crp60comp.4
SPOAL5 0.500
SPOFFS5 0 Hz
SPW5 6.79339981 W

===== CHANNEL f2 =====
SFO2 399.9012789 MHz
NUC2 1H
CPDPRG[2] waltz16
P3 14.88 usec
P4 29.76 usec
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W

F2 - Processing parameters
SI 32768
SF 100.5550385 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Single isomer from I-PK-37



```

NAME      1-PK-b2
EXPNO     14
PROCNO     1

F2 - Acquisition Parameters
Date_      20180329
Time       4.56
INSTRUM    spect
PROBHD     5 mm PABBO BB/
PULPROG    hsqcetdgtpp.3
TD         1024
SOLVENT    CDCl3
NS         32
DS         2
SWH         4807.692 Hz
FIDRES     4.695012 Hz
AQ         0.1064960 sec
RG         2050
DW         104.000 usec
DE         6.50 usec
TE         300.0 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        0.00001910 sec

===== CHANNEL f1 =====
SF01      399.9018806 MHz
NUC1       1H
P1        14.88 usec
P2        29.76 usec
P28       0 usec
PLW1      7.59999990 W

===== CHANNEL f2 =====
SF02      100.5670016 MHz
NUC2       13C
CPDPRG[2]  garp4
P3         10.00 usec
P14        500.00 usec
P31        1900.00 usec
PCPD2      80.00 usec
PLW0       0 W
PLW2      44.46300125 W
PLW12     0.69472998 W
SFXNAM[3]  Crp60,0.5,20.1
SFOAL3     0.500
SPOFFS3    0 Hz
SPW3       6.79339981 W
SFXNAM[18] Crp60_xfilt.2
SFOAL18    0.500
SPOFFS18   0 Hz
SPW18     1.62779999 W

===== GRADIENT CHANNEL =====
GPNAM[1]   SMSQ10.100
GPNAM[2]   SMSQ10.100
GPZ1       80.00 %
GPZ2       20.10 %
P16        1000.00 usec

F1 - Acquisition parameters
TD         256
SF01      100.567 MHz
FIDRES     204.515701 Hz
SW         260.304 ppm
FhMODE     Echo-Antiecho

F2 - Processing parameters
SI         1024
SF         399.9000101 MHz
WDW        QSINE
SSB        2
  
```

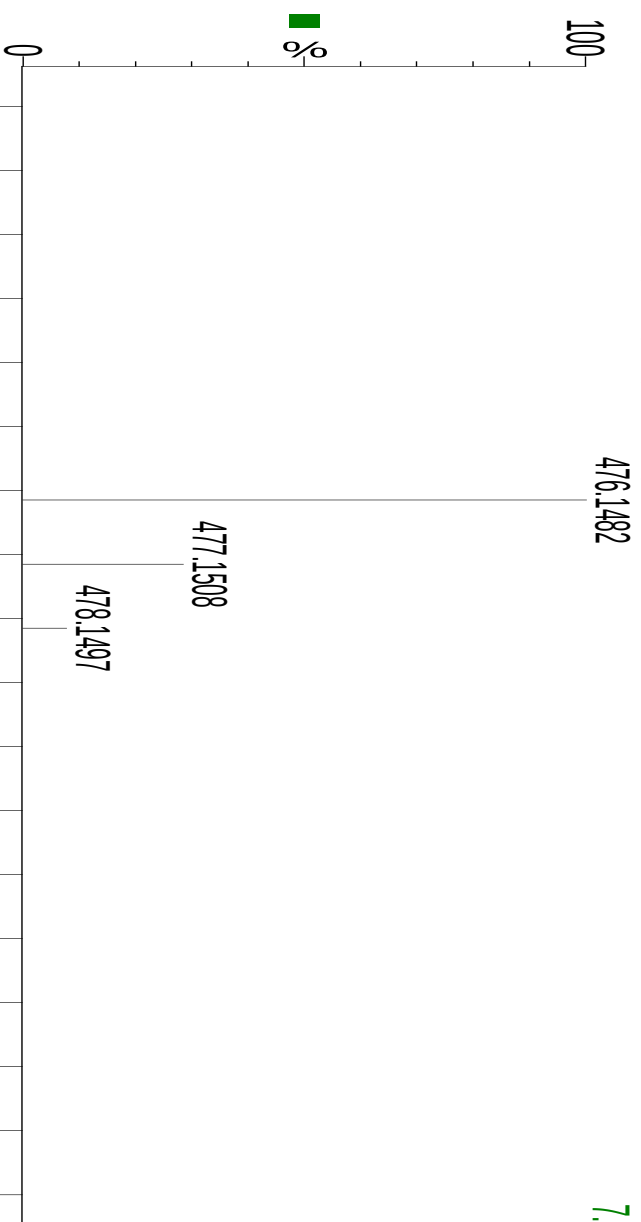
I-PK-62

16-04-2018

asep_16APR_2018_40 (0.070) 1s (1.00,1.00) C₂₀H₃₄NSiO₂H

1: TOF MS ES⁺

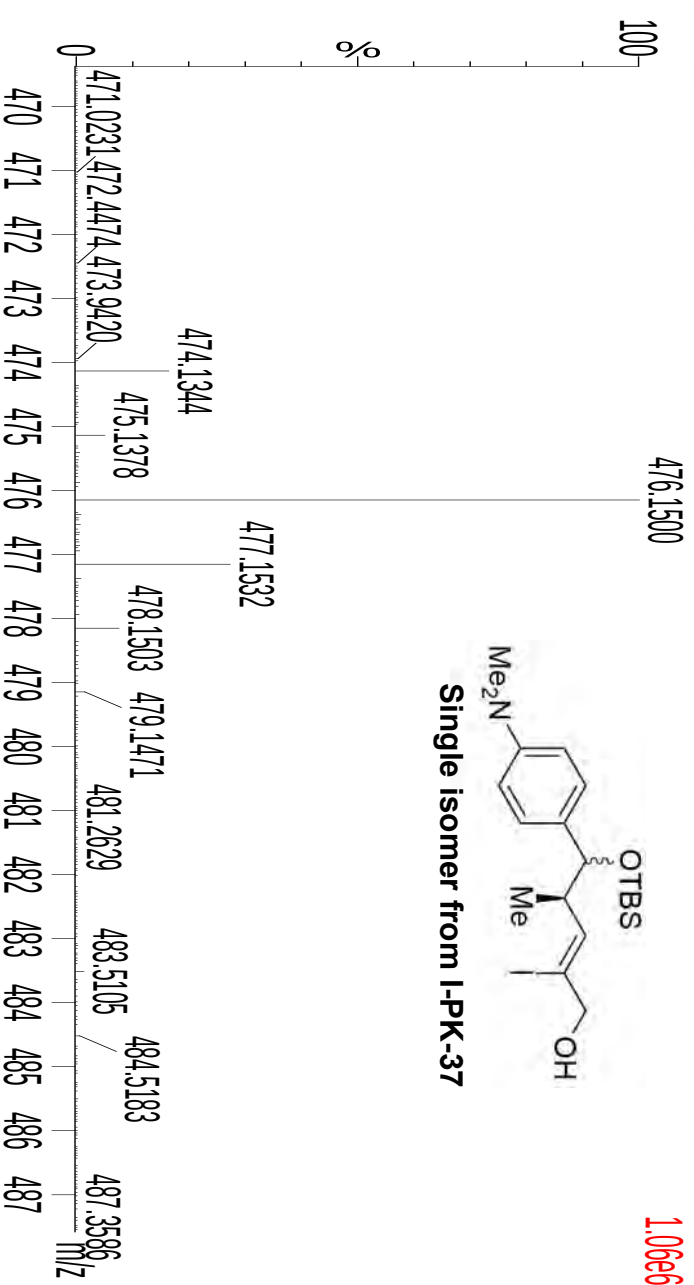
7.29e12

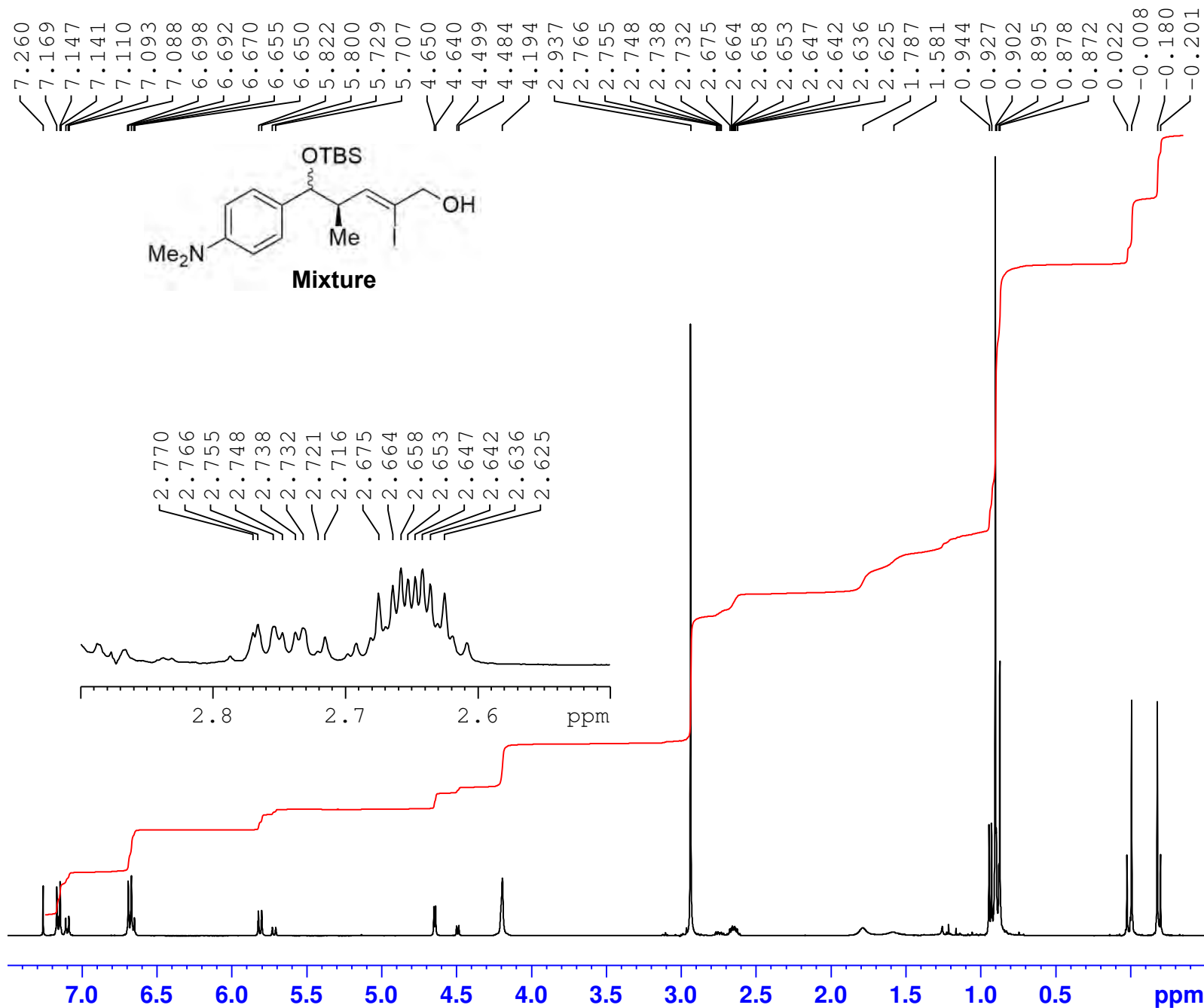


asep_16APR_2018_40 12 (0.530) Cm (6:12)

1: TOF MS ES⁺

1.06e6



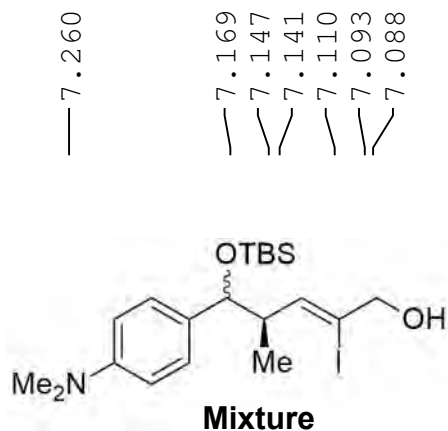


Current Data Parameters
 NAME III-PK-147
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200309
 Time 18.36
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 57
 DW 60.800 usec
 DE 6.50 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100096 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

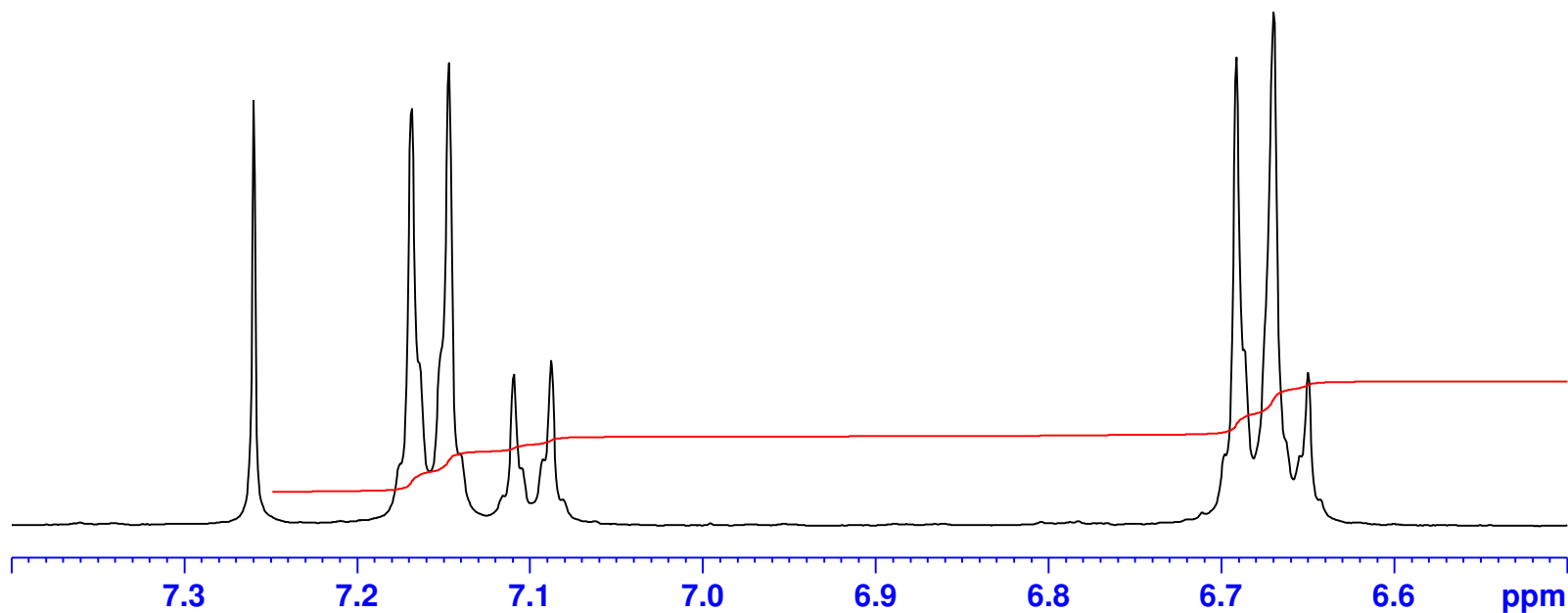


Current Data Parameters
 NAME III-PK-147
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200309
 Time 18.36
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl₃
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 57
 DW 60.800 usec
 DE 6.50 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

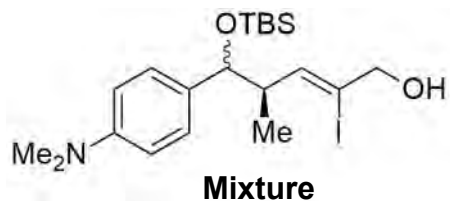
F2 - Processing parameters
 SI 32768
 SF 399.9100096 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



5.822
5.800
5.729
5.707

4.650
4.640
4.499
4.484

4.194

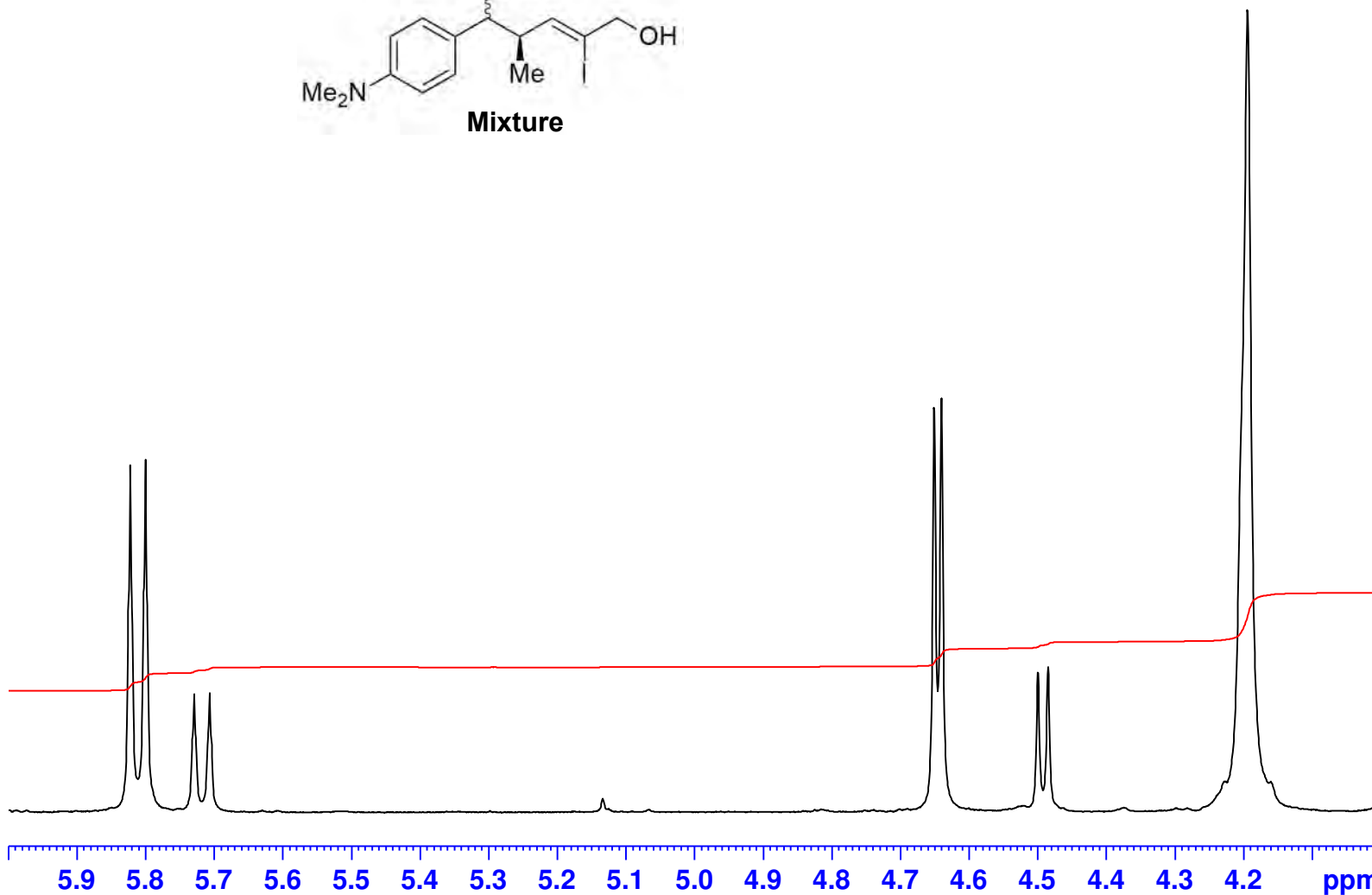


Current Data Parameters
 NAME III-PK-147
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200309
 Time 18.36
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 57
 DW 60.800 usec
 DE 6.50 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100096 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





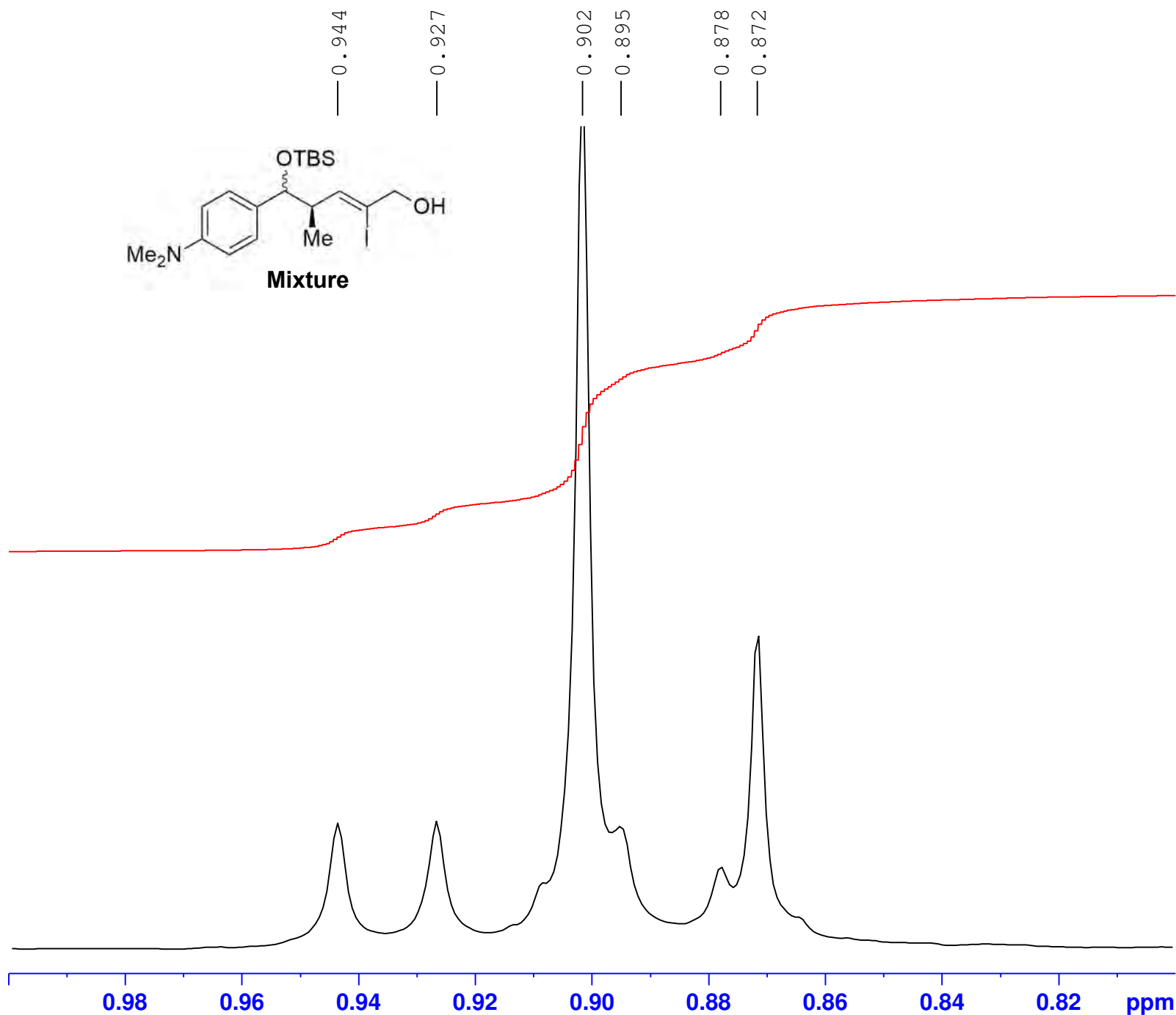
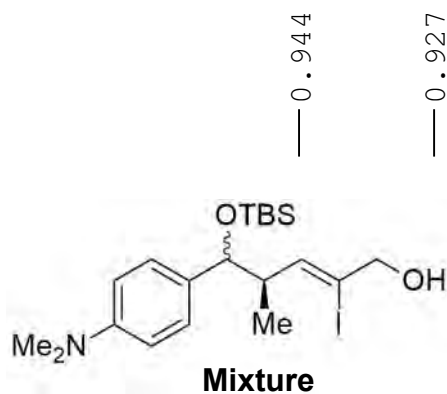
Current Data Parameters
NAME III-PK-147
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20200309
Time 18.36
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 57
DW 60.800 usec
DE 6.50 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9124696 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 399.9100096 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





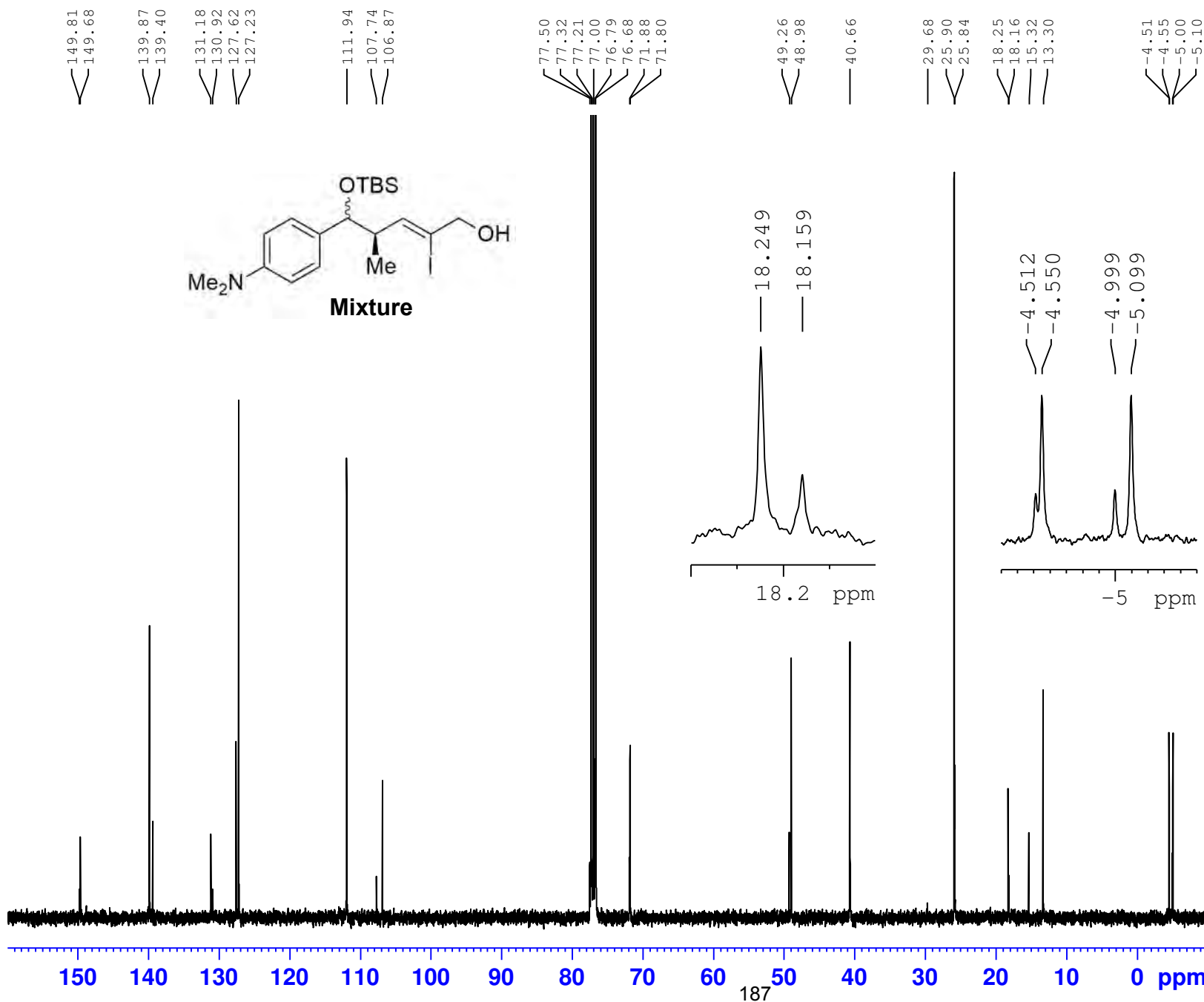
Current Data Parameters
 NAME III-PK-147
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200309
 Time 19.32
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 96150
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.250010 Hz
 AQ 1.9999200 sec
 RG 64
 DW 20.800 usec
 DE 6.50 usec
 TE 300.6 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 SF01 100.5675047 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 96.68000031 W

===== CHANNEL f2 =====
 SF02 399.9115996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 17.29199982 W
 PLW12 0.48032999 W
 PLW13 0.38907000 W

F2 - Processing parameters
 SI 131072
 SF 100.5574511 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





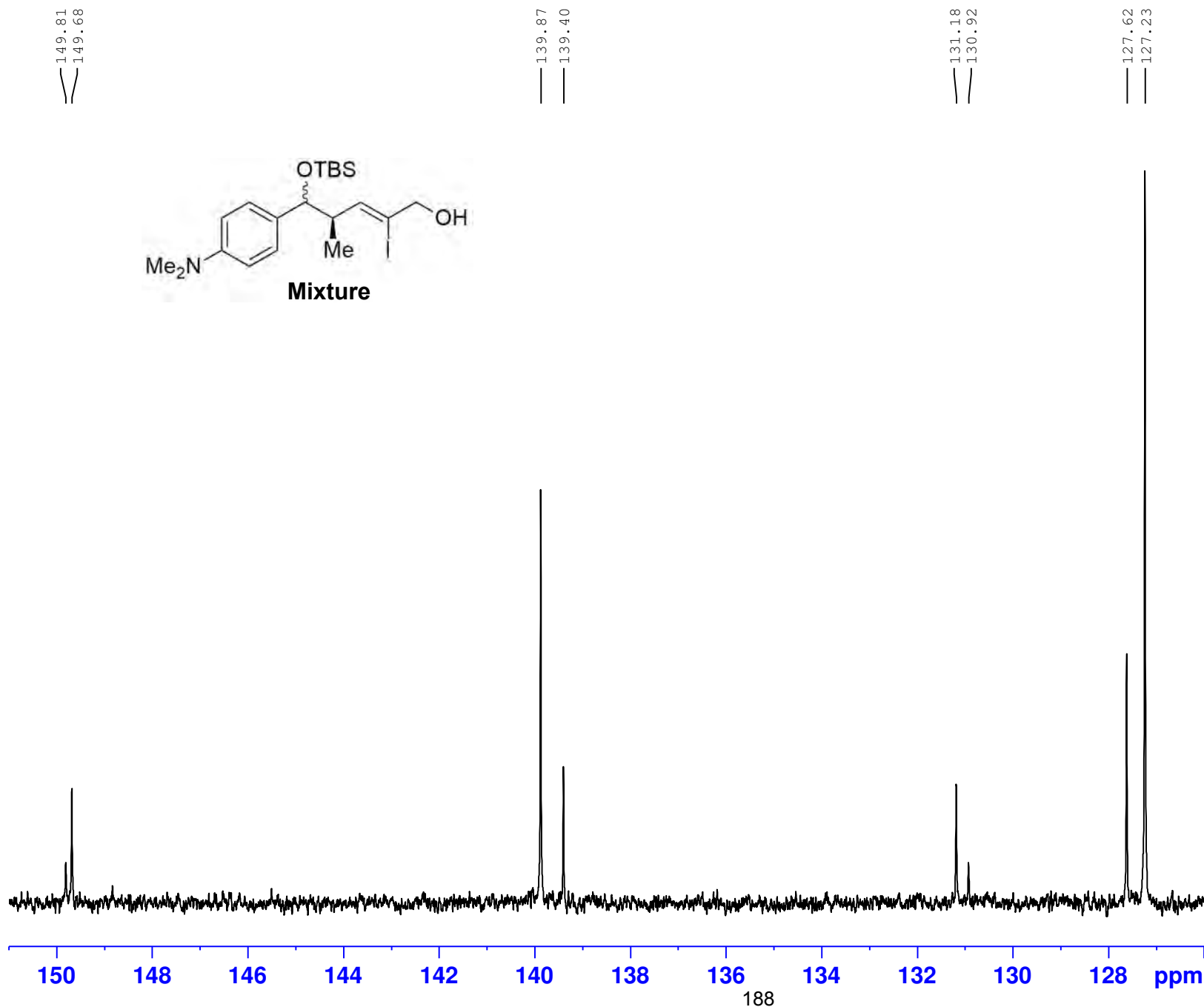
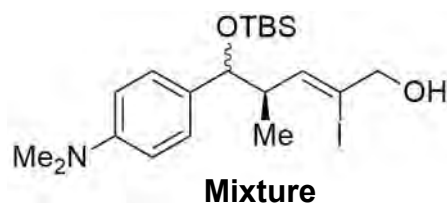
Current Data Parameters
 NAME III-PK-147
 EXPNO 11
 PROCNO 1

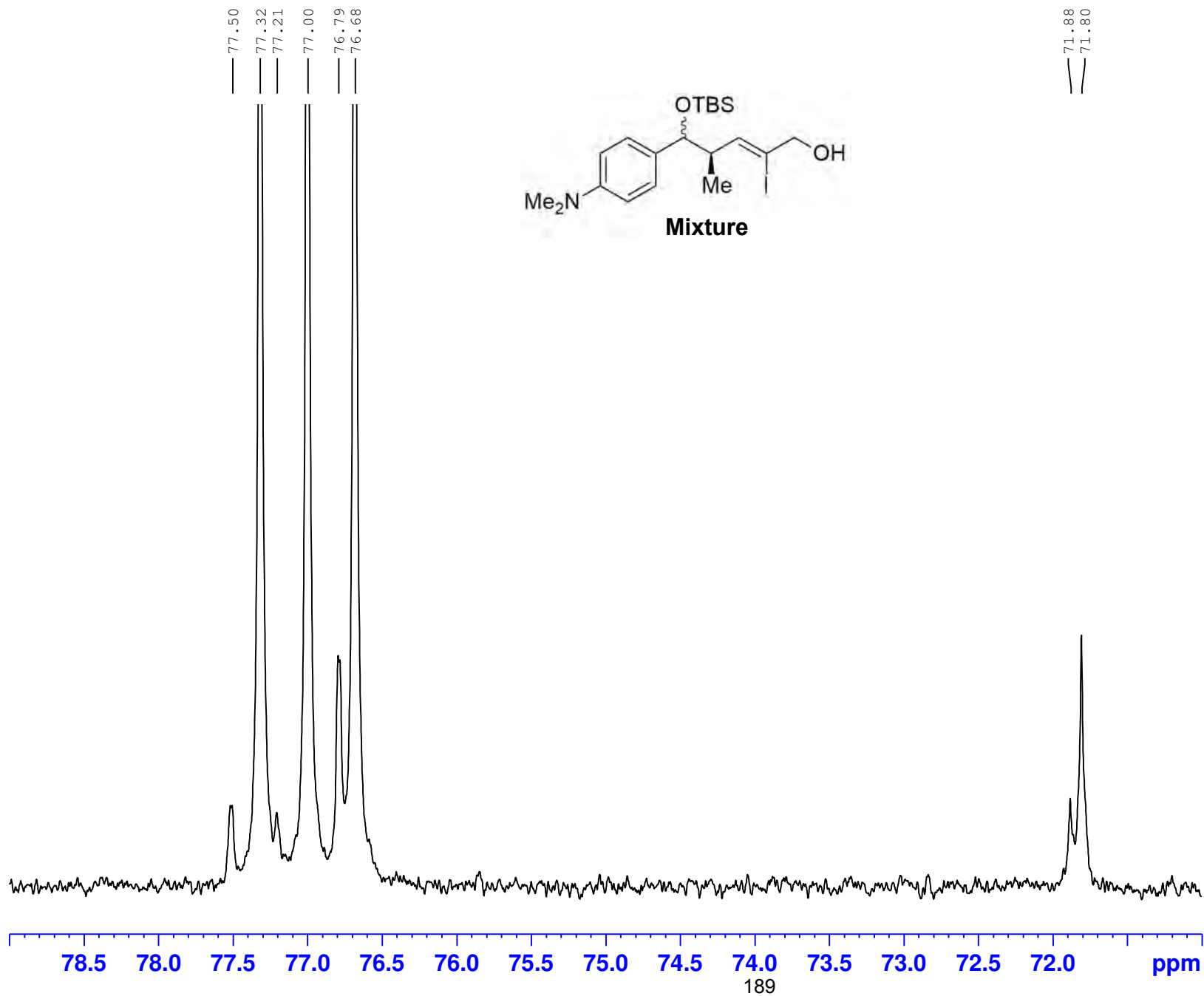
F2 - Acquisition Parameters
 Date_ 20200309
 Time 19.32
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 96150
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.250010 Hz
 AQ 1.9999200 sec
 RG 64
 DW 20.800 usec
 DE 6.50 usec
 TE 300.6 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5675047 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 96.68000031 W

===== CHANNEL f2 =====
 SFO2 399.9115996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 17.29199982 W
 PLW12 0.48032999 W
 PLW13 0.38907000 W

F2 - Processing parameters
 SI 131072
 SF 100.5574511 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





Current Data Parameters
NAME III-PK-147
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200309
Time 19.32
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 96150
SOLVENT CDC13
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.250010 Hz
AQ 1.9999200 sec
RG 64
DW 20.800 usec
DE 6.50 usec
TE 300.6 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5675047 MHz
NUC1 13C
P1 9.00 usec
PLW1 96.68000031 W

===== CHANNEL f2 =====
SFO2 399.9115996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 17.29199982 W
PLW12 0.48032999 W
PLW13 0.38907000 W

F2 - Processing parameters
SI 131072
SF 100.5574511 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



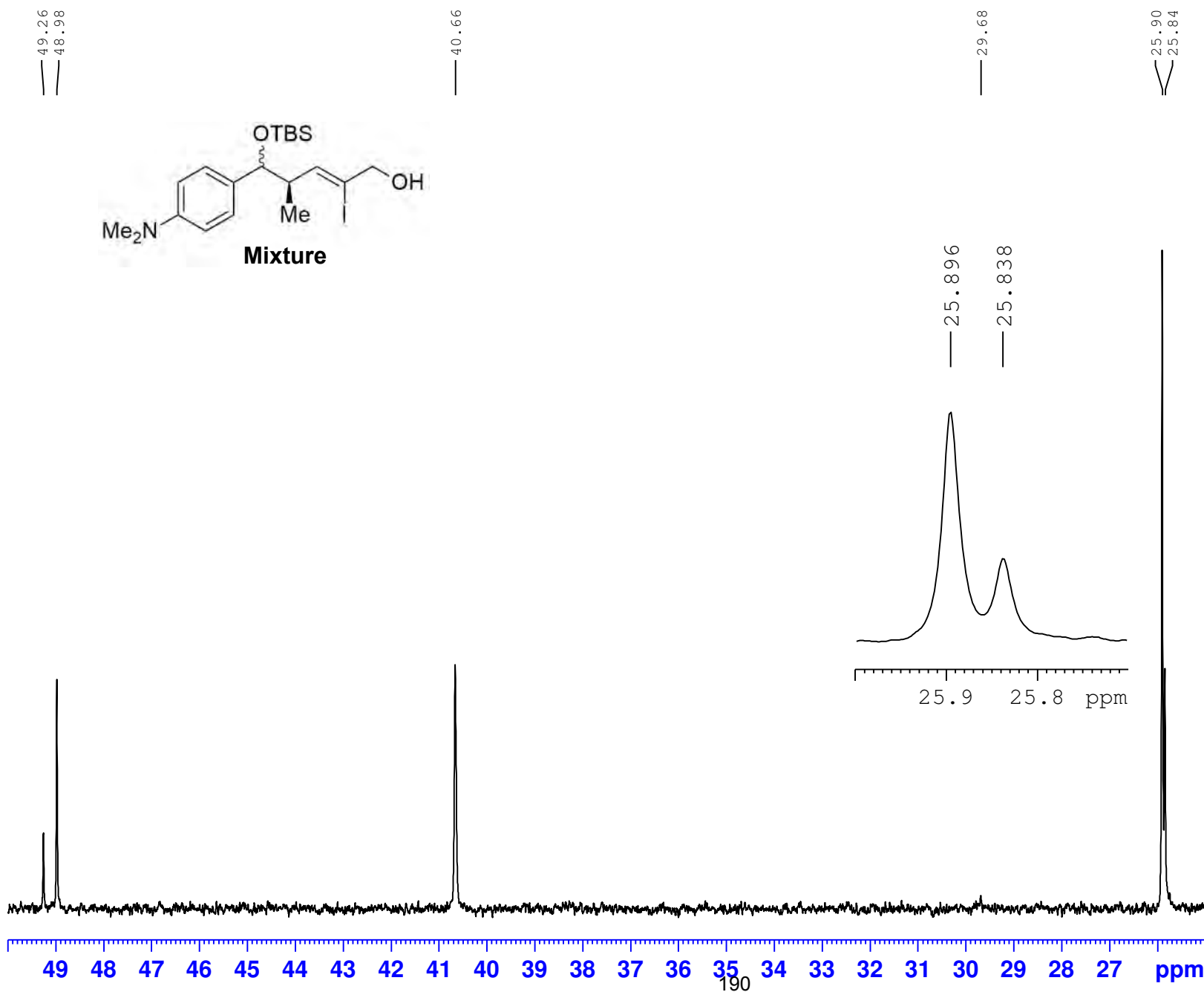
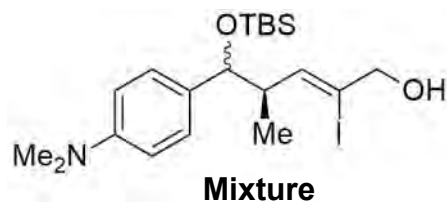
Current Data Parameters
NAME III-PK-147
EXPNO 11
PROCNO 1

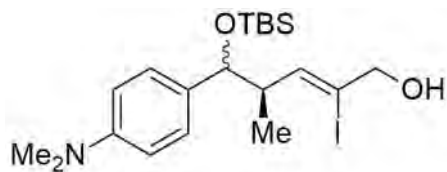
F2 - Acquisition Parameters
Date_ 20200309
Time 19.32
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 96150
SOLVENT CDC13
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.250010 Hz
AQ 1.9999200 sec
RG 64
DW 20.800 usec
DE 6.50 usec
TE 300.6 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5675047 MHz
NUC1 13C
P1 9.00 usec
PLW1 96.68000031 W

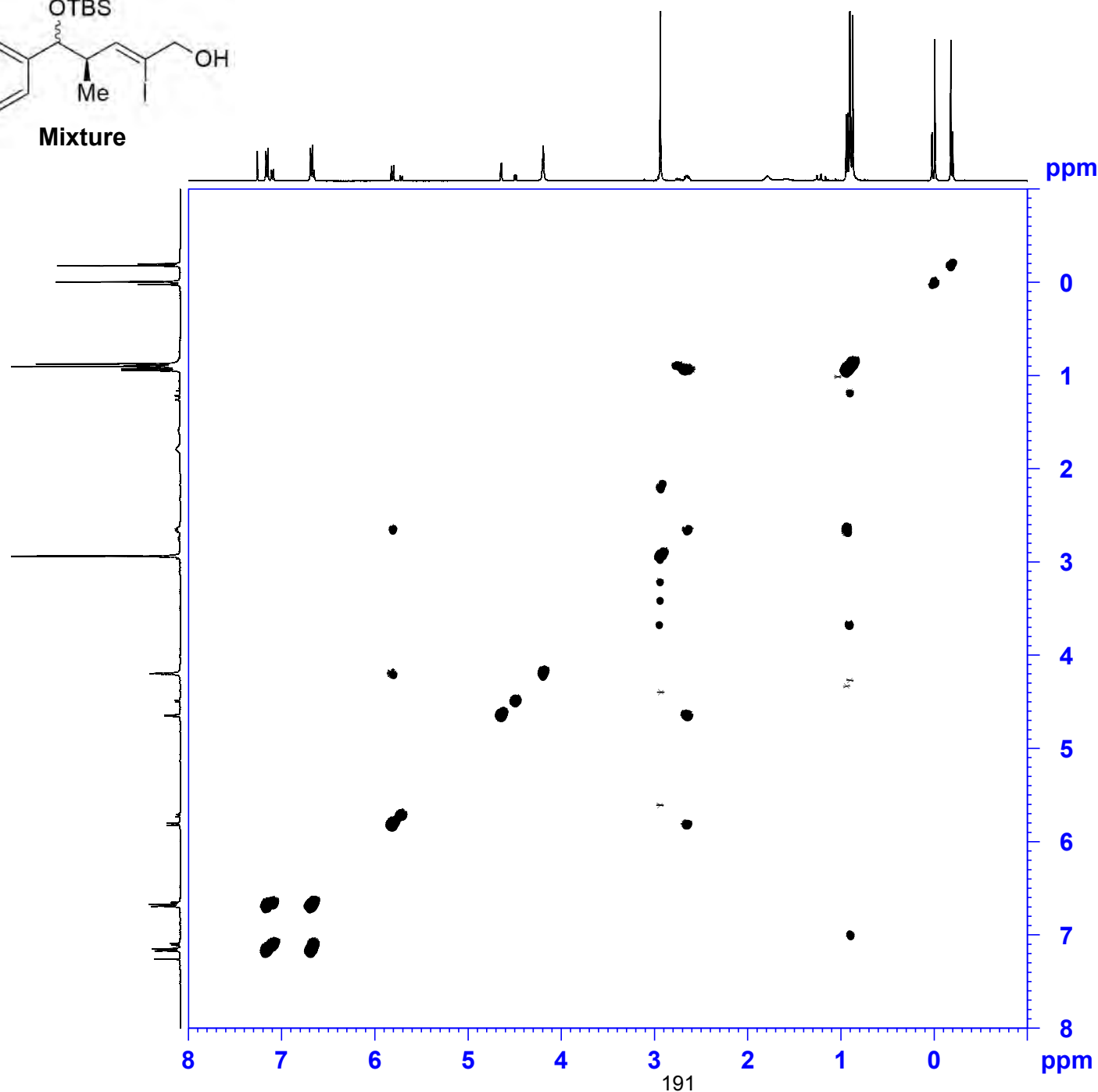
===== CHANNEL f2 =====
SFO2 399.9115996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 17.29199982 W
PLW12 0.48032999 W
PLW13 0.38907000 W

F2 - Processing parameters
SI 131072
SF 100.5574511 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Mixture



Current Data Parameters
 NAME III-PK-147
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200310
 Time_ 7.12
 INSTRUM AVIII 400
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfzf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 3546.099 Hz
 FIDRES 1.731494 Hz
 AQ 0.2887680 sec
 RG 2050
 DW 141.000 usec
 DE 6.50 usec
 TE 297.1 K
 D0 0.00000300 sec
 D1 1.90319502 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00028200 sec

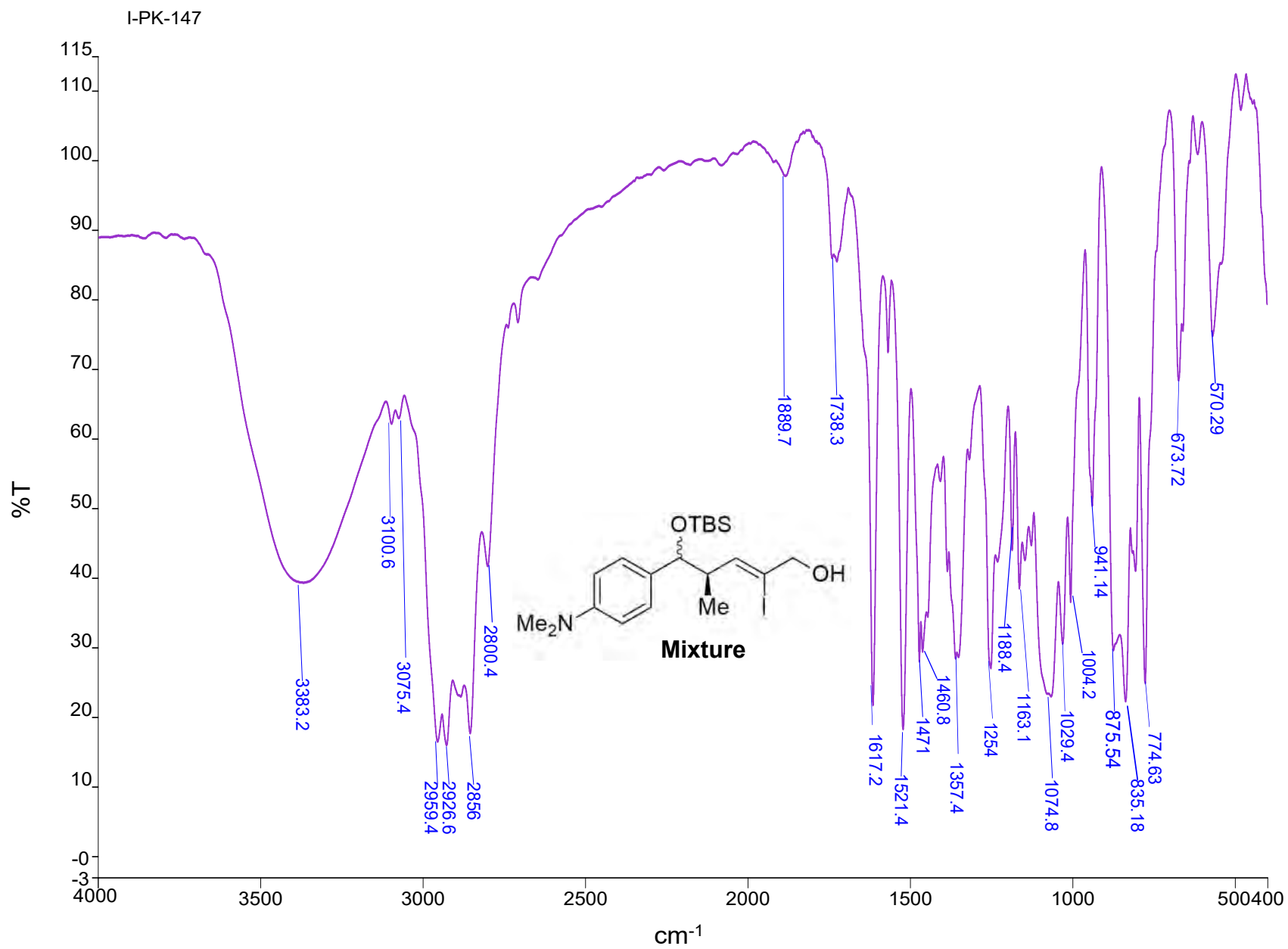
===== CHANNEL f1 =====
 SFO1 399.9114741 MHz
 NUC1 ^1H
 P1 15.00 usec
 PLW1 17.29199982 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SINE.100
 GPNAM[2] SINE.100
 GPNAM[3] SINE.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9115 MHz
 FIDRES 27.703901 Hz
 SW 8.867 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9100063 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9100063 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



7.260
7.098
7.084
6.660
6.647

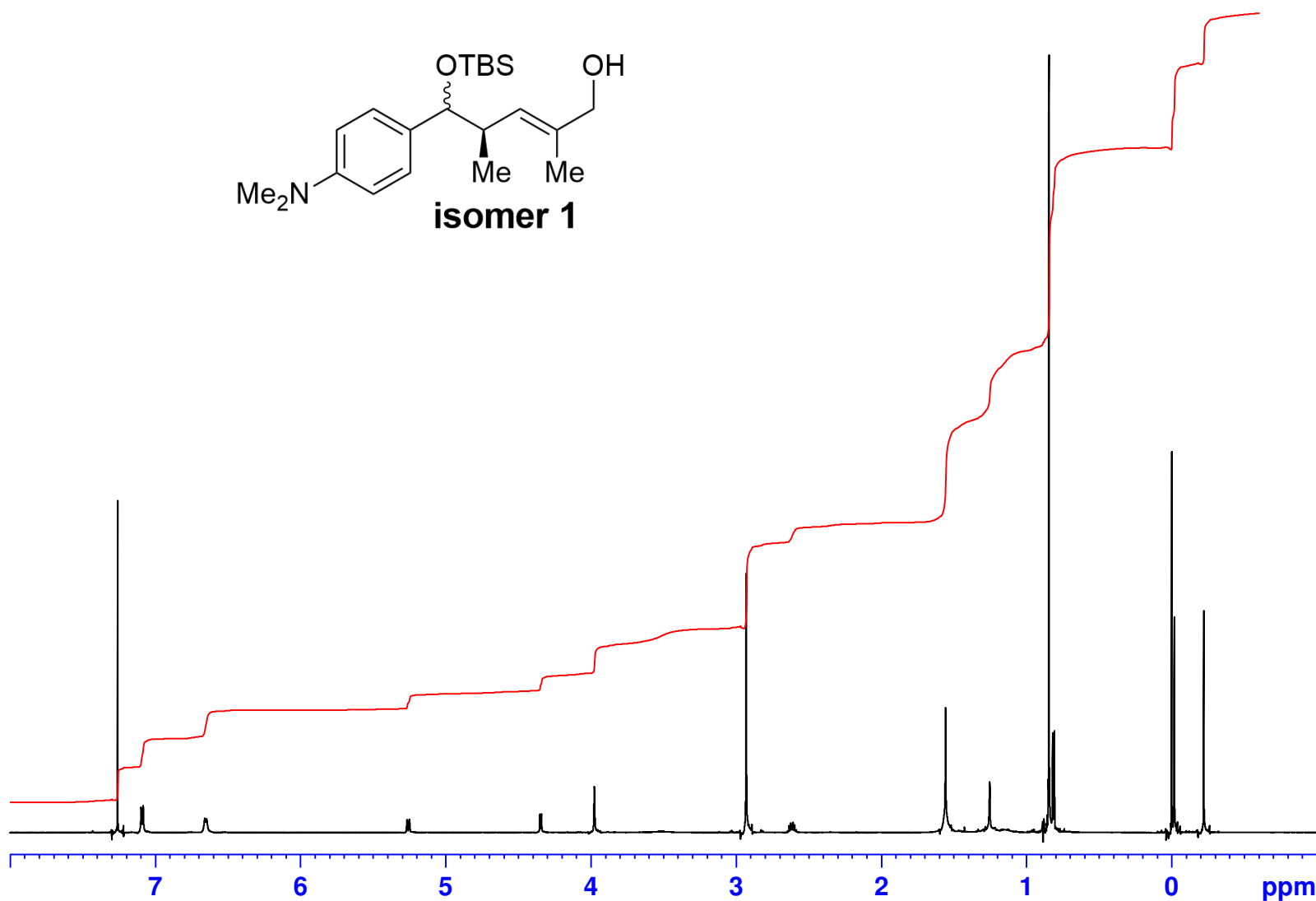
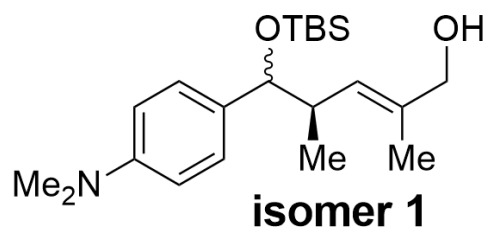
5.267
5.265
5.251
5.249

4.351
4.341
3.976

2.930
2.635
2.624
2.619
2.613
2.608
2.597

1.558
1.556
1.252
0.819
0.808

-0.018
-0.222



Current Data Parameters
NAME III-PK-43-A
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191010
Time 15.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 296.9 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300142 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

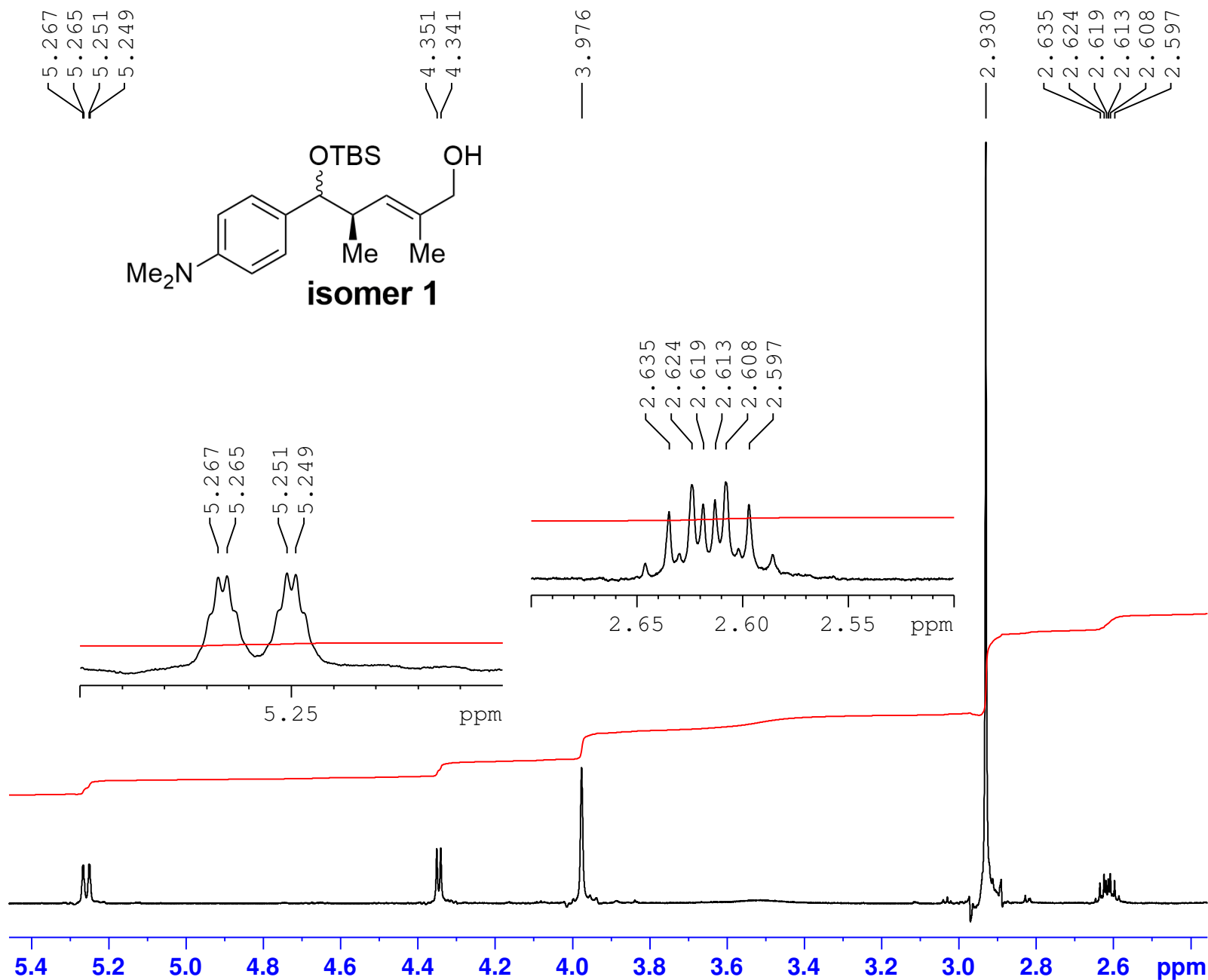


Current Data Parameters
 NAME III-PK-43-A
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191010
 Time 15.16
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 296.9 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300142 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00





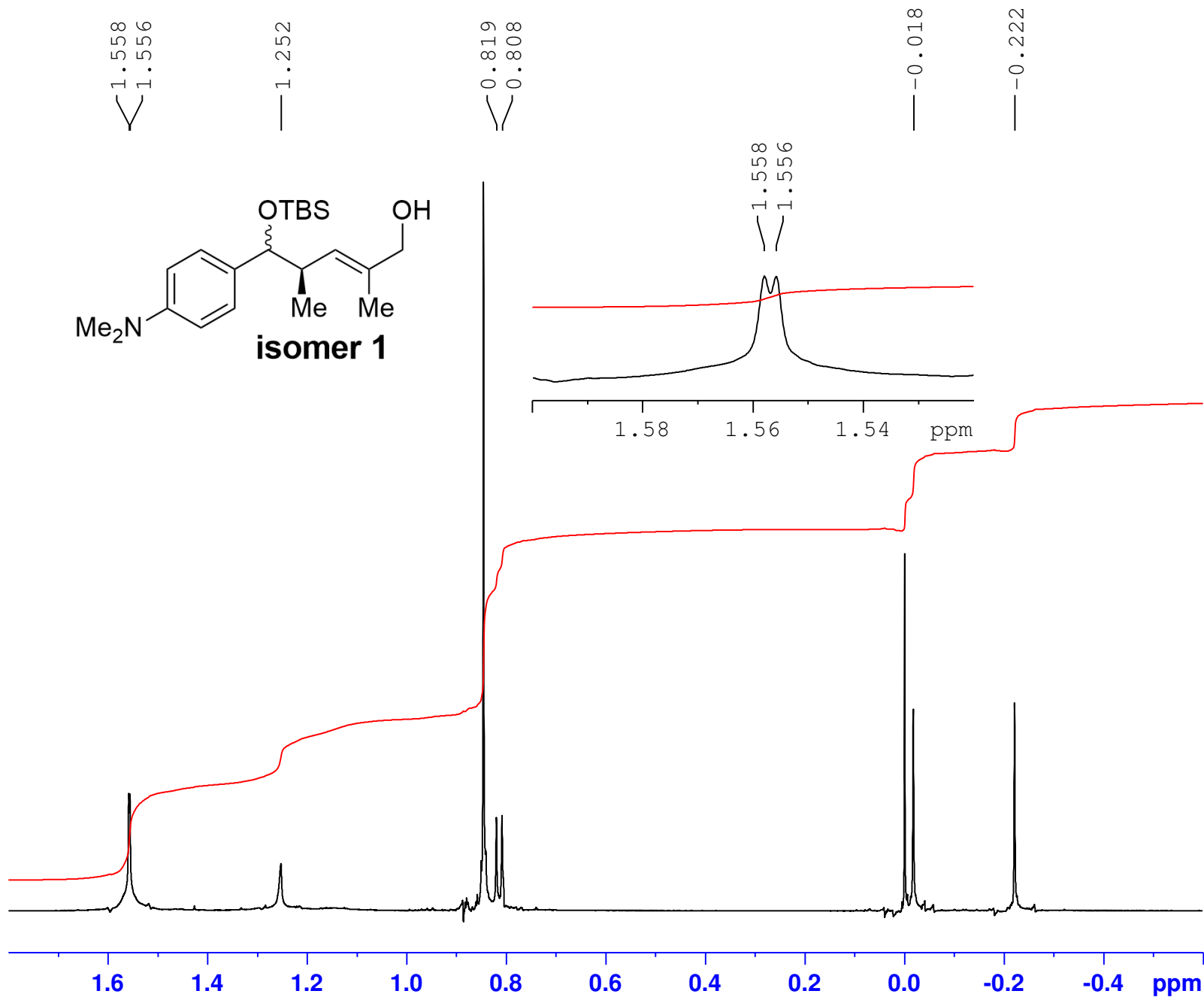
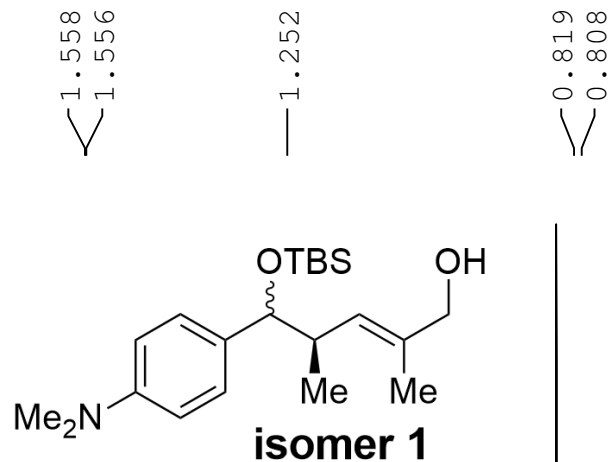
Current Data Parameters
NAME III-PK-43-A
EXPNO 11
PROCNO 1

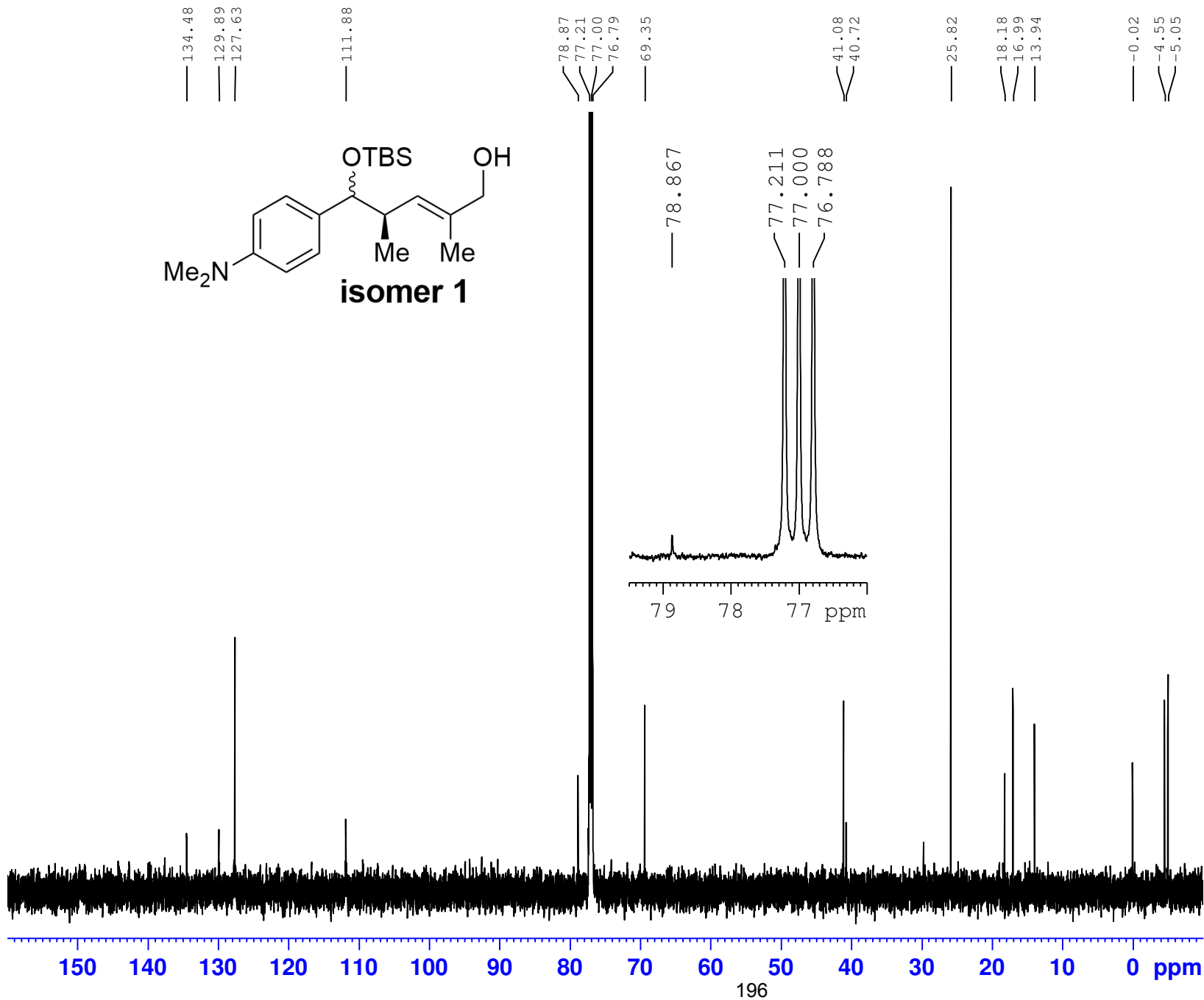
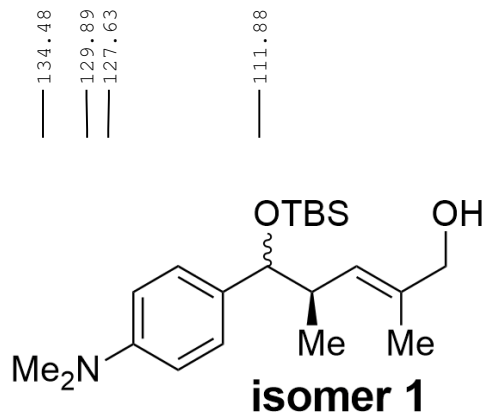
F2 - Acquisition Parameters

Date_ 20191010
Time 15.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDC13
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 296.9 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300142 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME III-PK-43-A
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191010
 Time 22.01
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.315010 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 7.73 usec
 TE 299.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

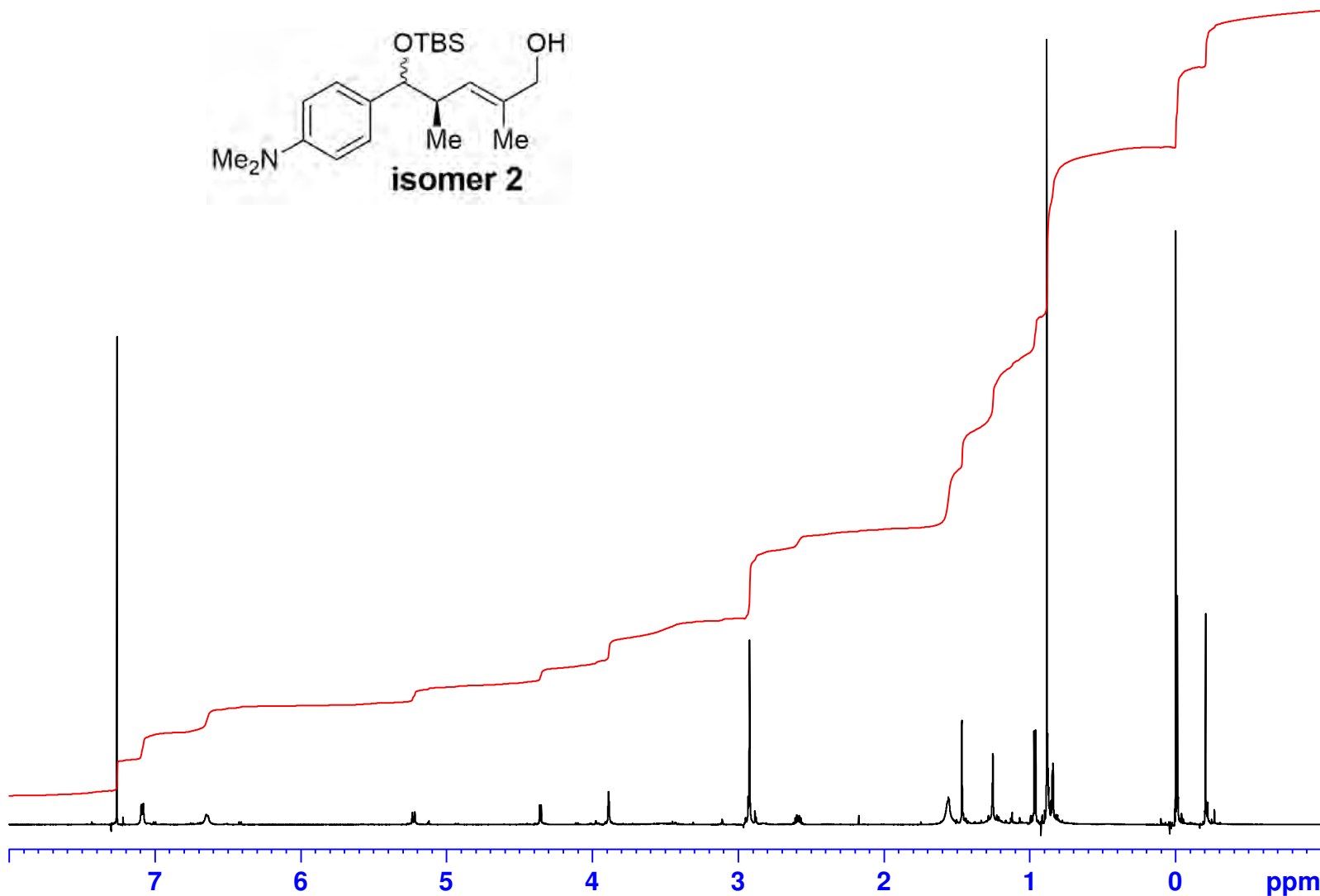
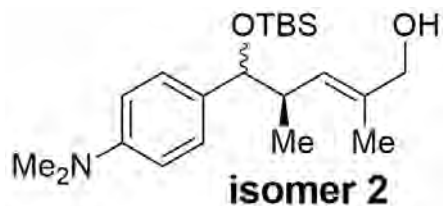
===== CHANNEL f1 =====
 SFO1 150.9194058 MHz
 NUC1 13C
 P1 11.80 usec
 PLW1 85.00000000 W

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W
 PLW13 0.28090999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028083 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

7.260
7.093
7.083
7.079
6.648
6.640
6.637
5.237
5.235
5.232
5.230
5.220
5.218
5.216
5.214
4.360
4.350
— 3.888

2.921
2.607
2.597
2.591
2.586
2.580
2.570
1.465
1.463
1.252
0.970
0.958
0.874
0.873
0.845
0.838
-0.001
-0.013
-0.207



Current Data Parameters
NAME III-PK-43-B
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20191010
Time 22.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 297.3 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300143 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

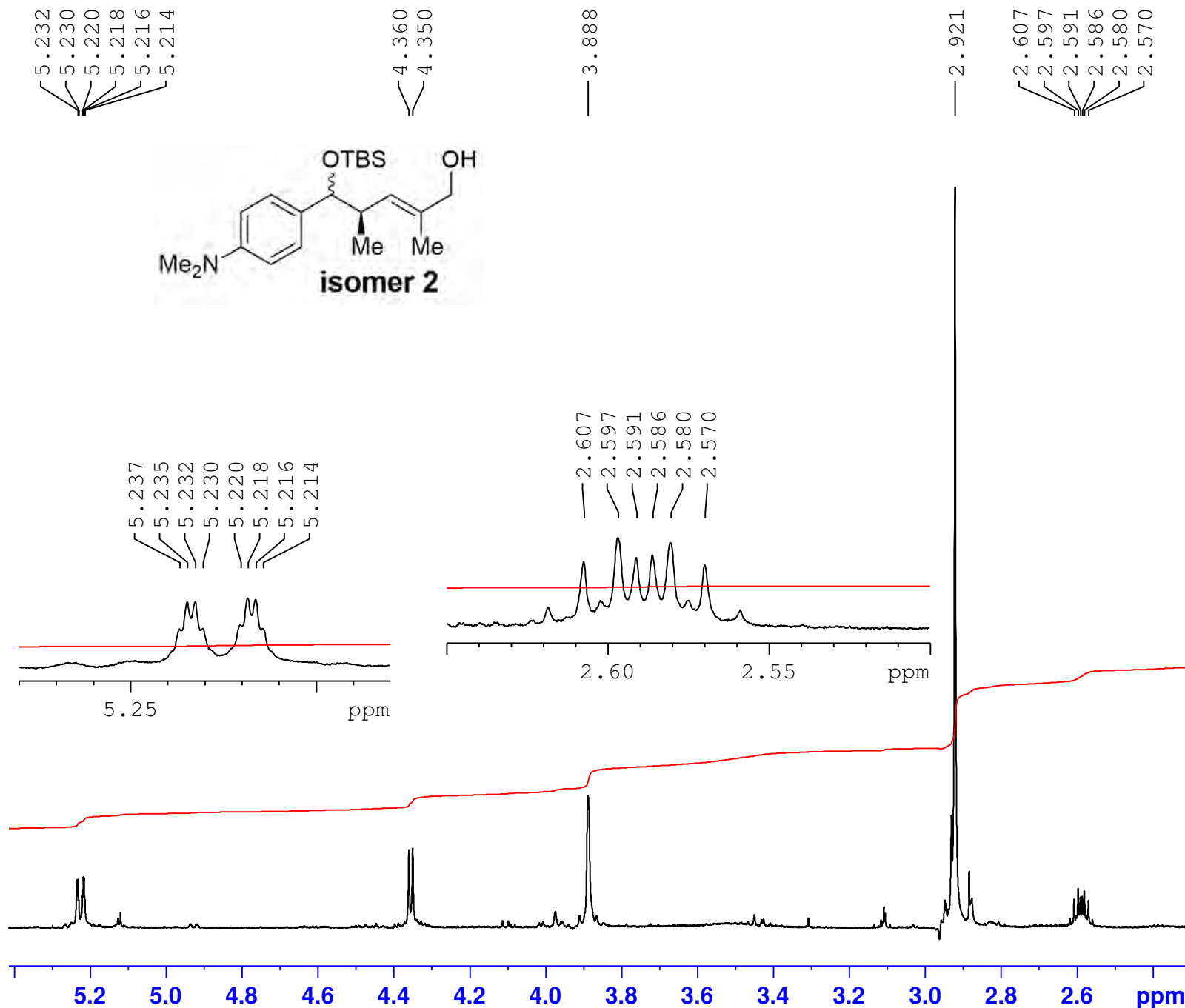
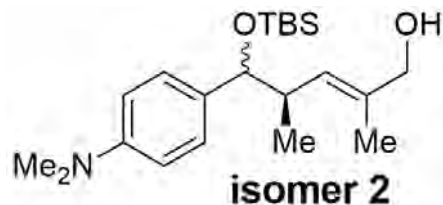


Current Data Parameters
 NAME III-PK-43-B
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191010
 Time 22.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 297.3 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300143 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



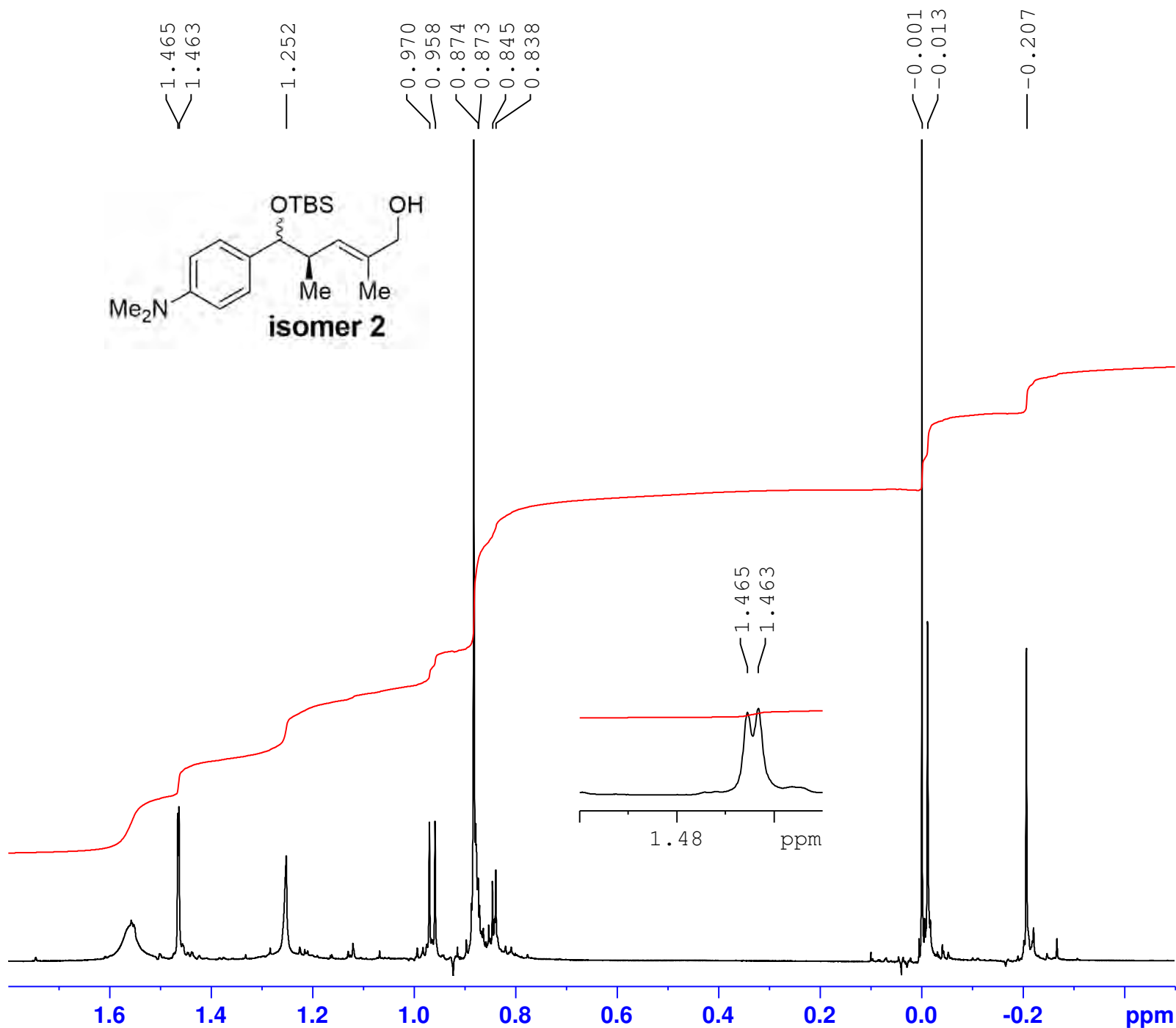
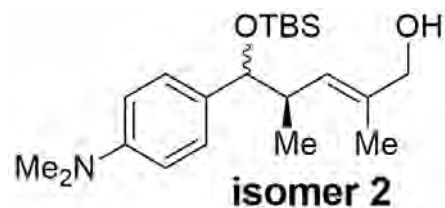


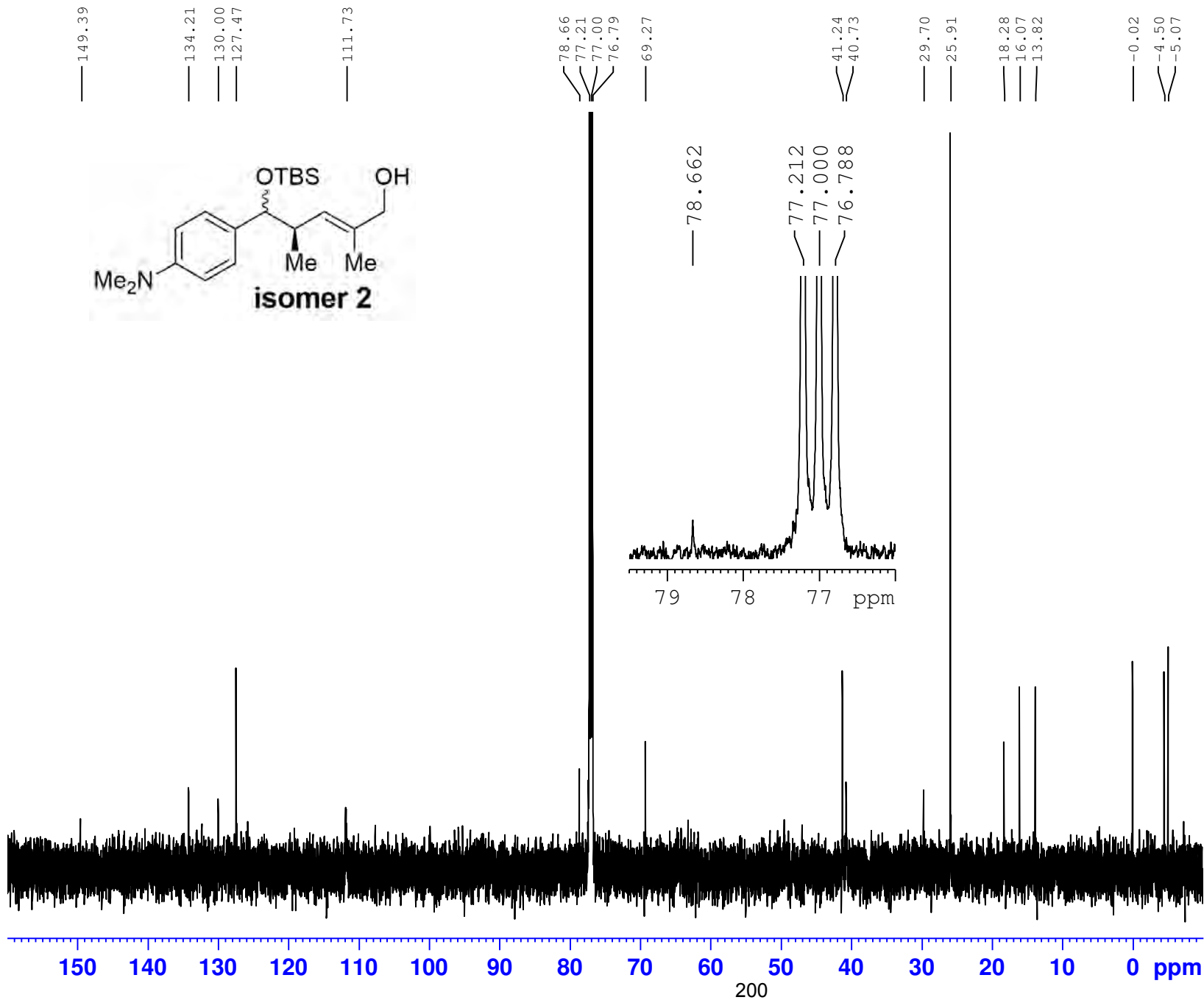
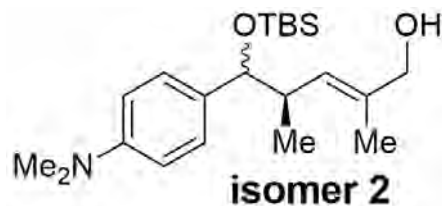
Current Data Parameters
 NAME III-PK-43-B
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191010
 Time 22.57
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 297.3 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300143 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00





Current Data Parameters
 NAME III-PK-43-B
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20191010
 Time 23.51
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.315010 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 7.73 usec
 TE 299.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 150.9194058 MHz
 NUC1 13C
 P1 11.80 usec
 PLW1 85.00000000 W

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W
 PLW13 0.28090999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028080 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

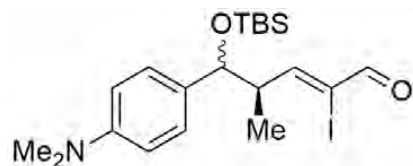


Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 10
 PROCNO 1

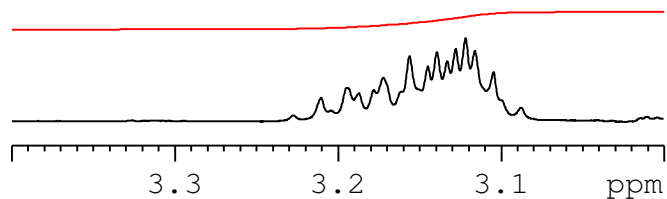
F2 - Acquisition Parameters
 Date_ 20180517
 Time 18.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 64
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 71.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000095 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



3.210
 3.195
 3.187
 3.178
 3.172
 3.156
 3.145
 3.139
 3.133
 3.128
 3.122
 3.116
 3.105



8.635
 8.586

7.260
 7.169
 7.148
 7.114
 7.105
 7.093
 7.082
 7.060
 7.036
 6.689
 6.668
 6.647

4.735
 4.724
 4.620
 4.605

3.210
 3.195
 3.187
 3.178
 3.172
 3.156
 3.145
 3.139
 3.133
 3.128
 3.122
 3.116
 3.105
 2.947
 2.941

1.079
 1.062
 1.032
 1.015
 0.901
 0.864
 0.072
 0.028
 -0.012
 -0.173
 -0.204



7.169
7.148
7.114
7.105
7.093
7.082
7.060
7.036

6.689
6.668
6.647

4.735
4.724

4.620
4.605

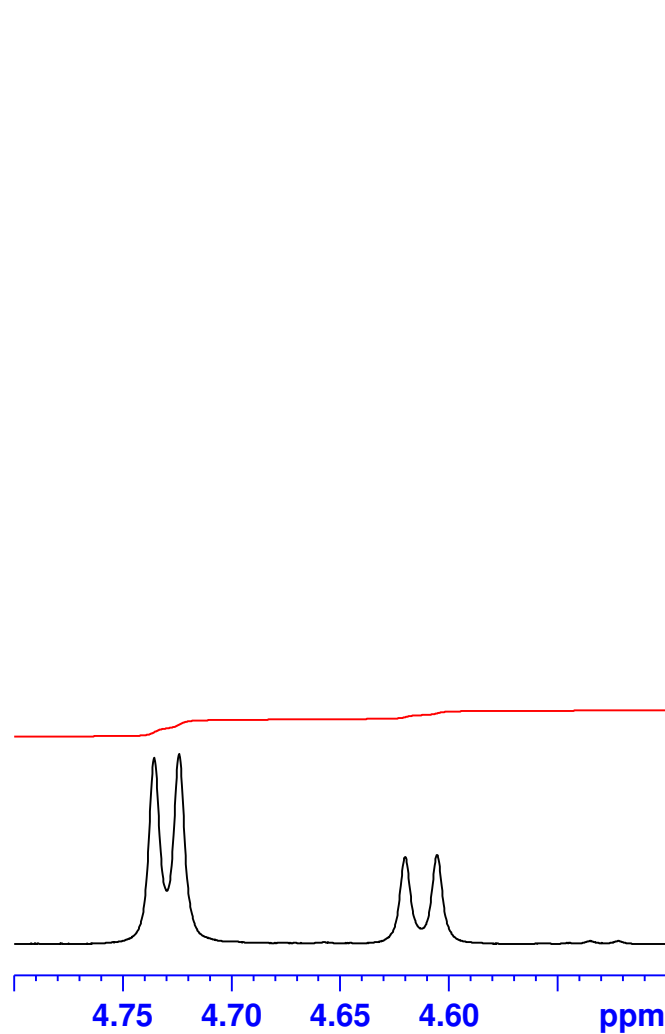
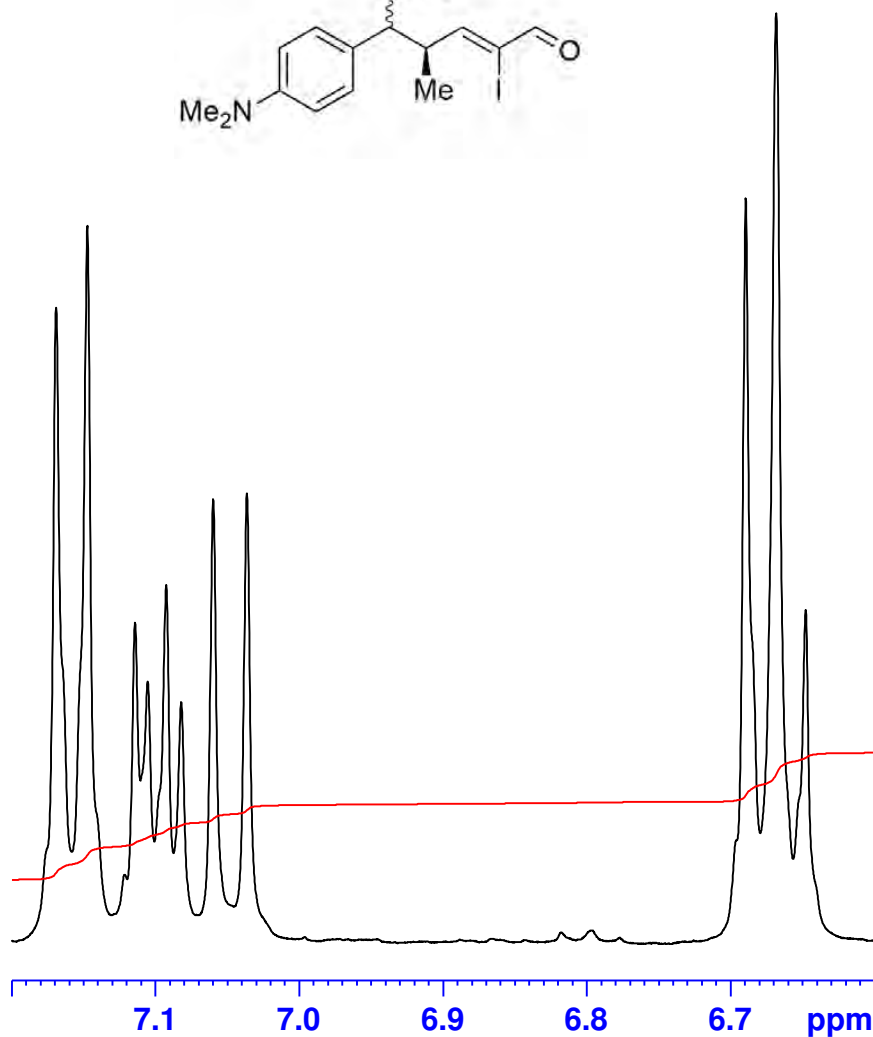
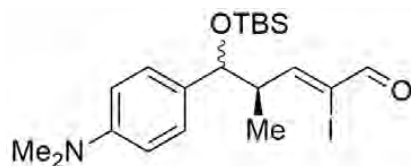


Current Data Parameters
NAME I-PK-77PURE
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180517
Time 18.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



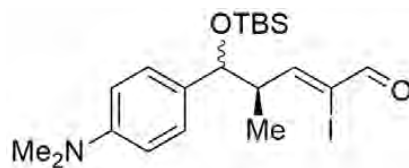


Current Data Parameters
NAME I-PK-77PURE
EXPNO 10
PROCNO 1

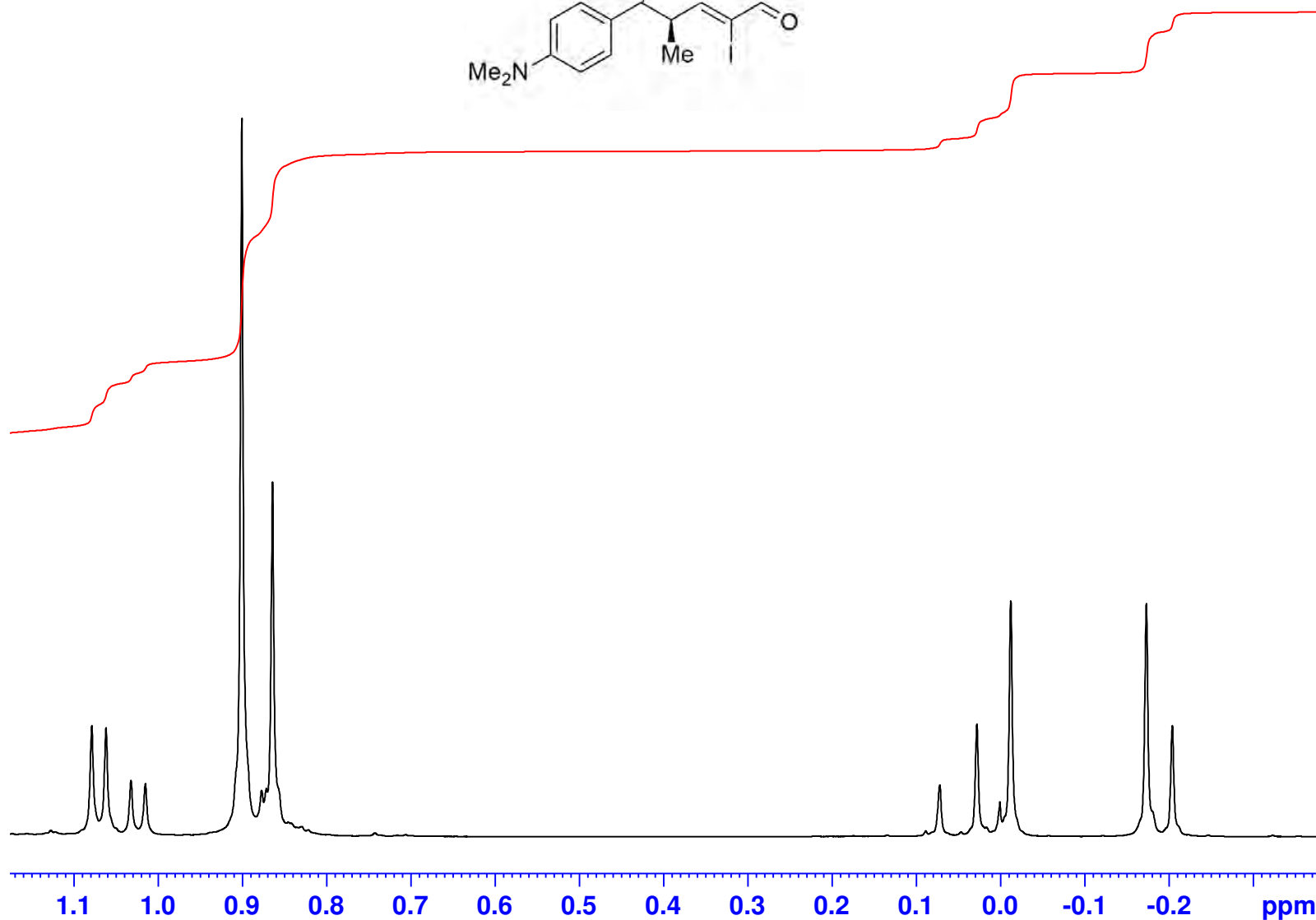
F2 - Acquisition Parameters
Date_ 20180517
Time 18.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 64
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 71.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

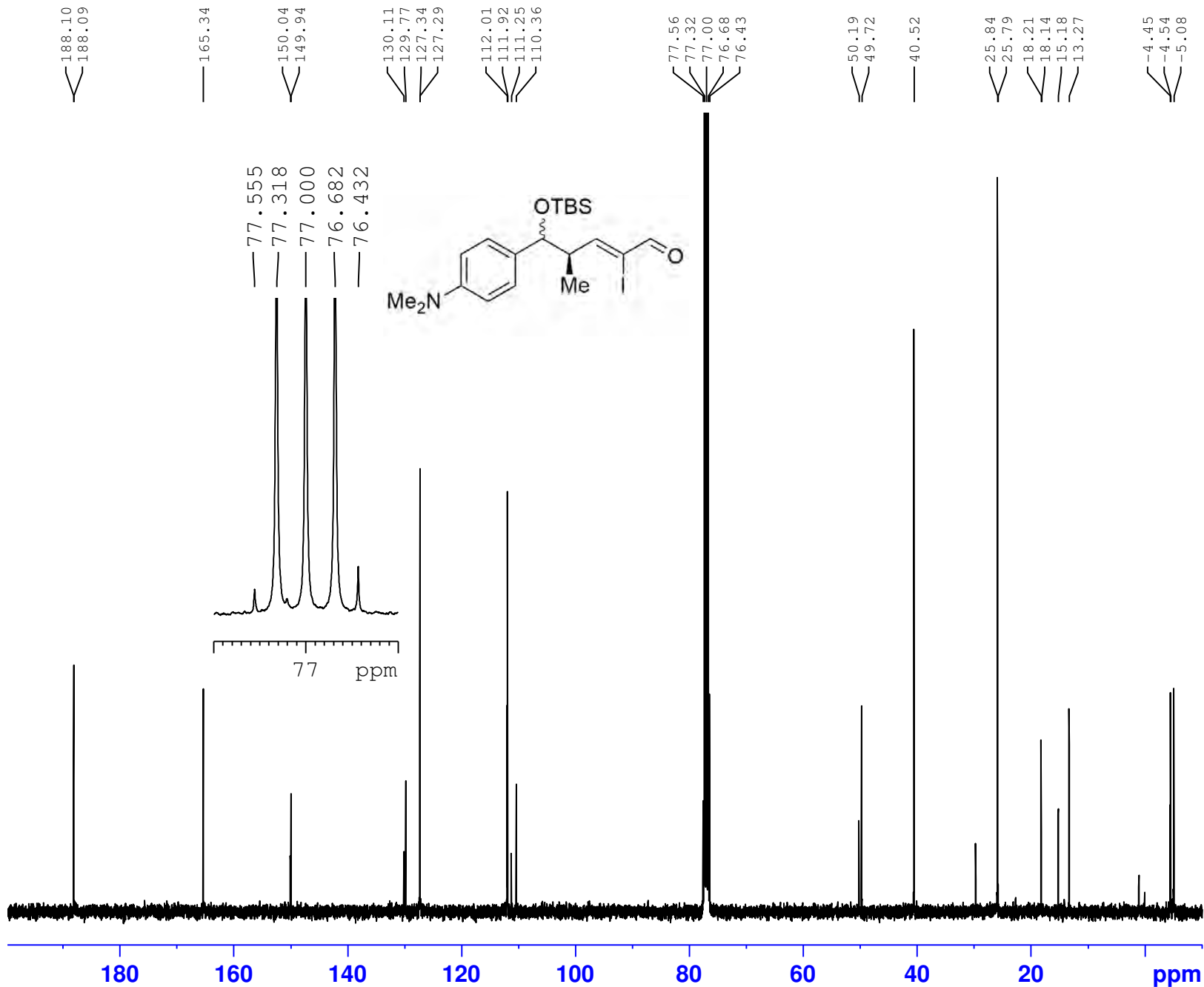
===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



1.079
1.062
1.032
1.015
0.901
0.864
0.072
0.028
0.012
-0.173
-0.204





Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180517
 Time 19.21
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549378 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



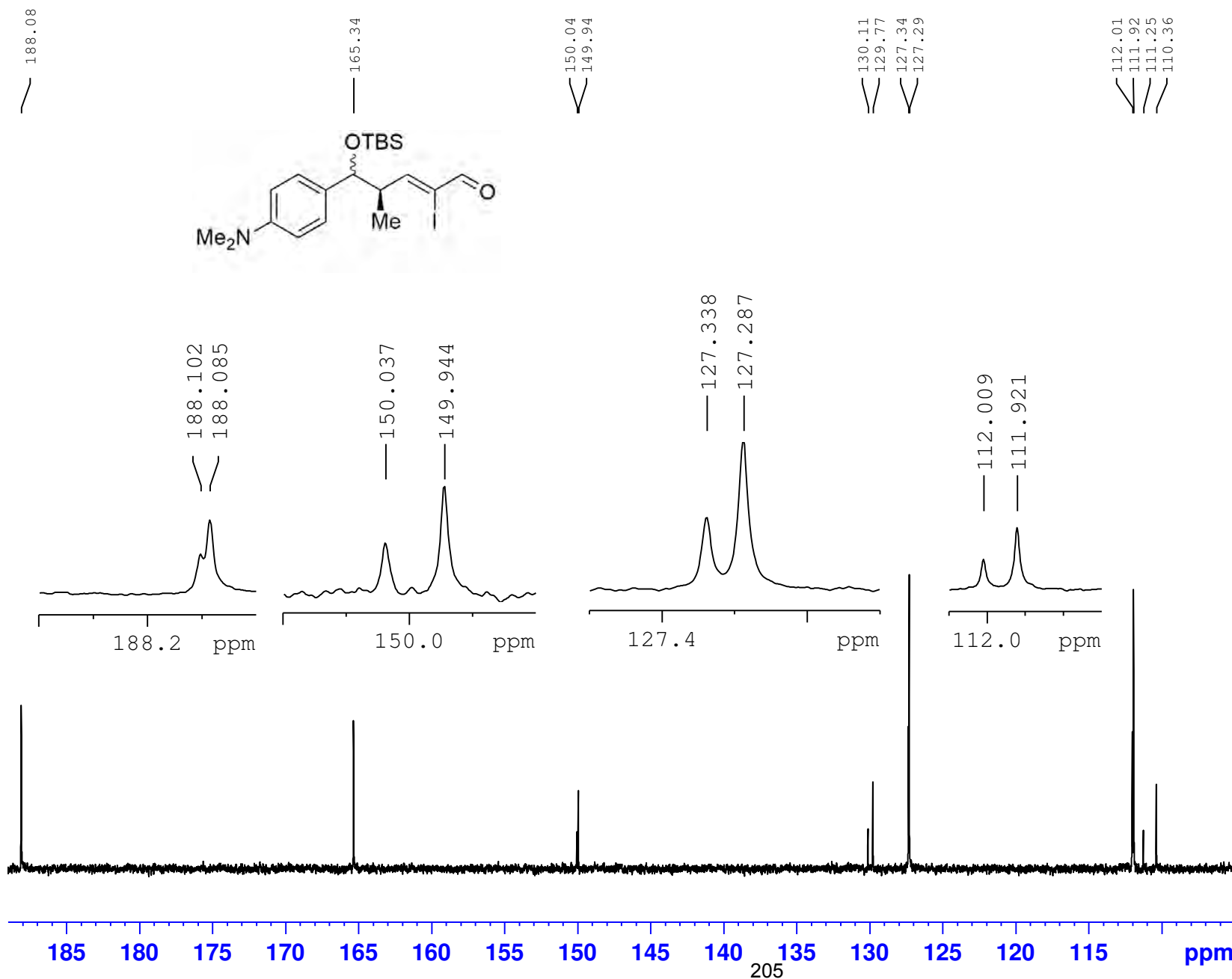
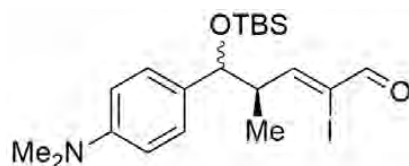
Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 11
 PROCNO 1

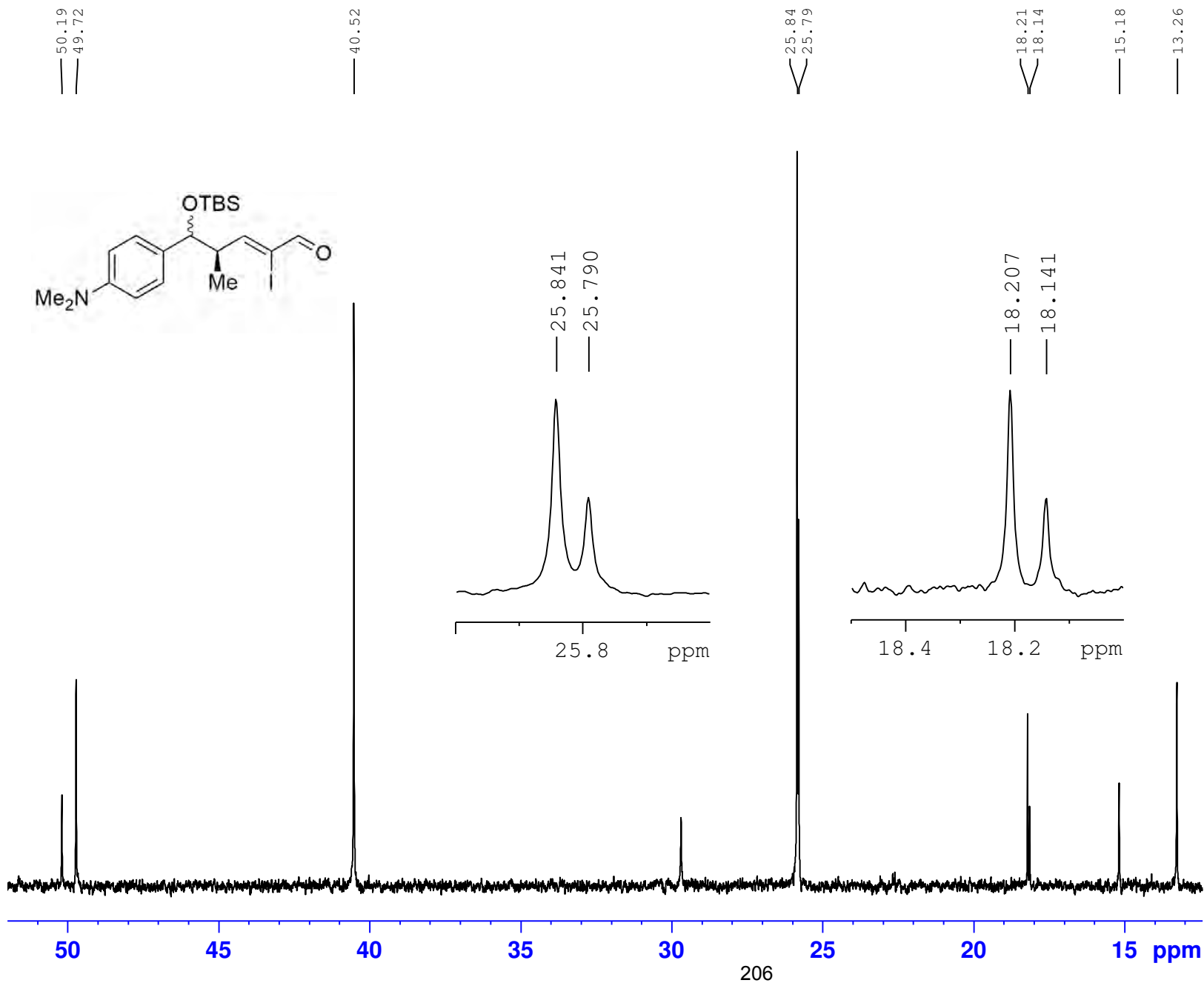
F2 - Acquisition Parameters
 Date_ 20180517
 Time 19.21
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549378 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





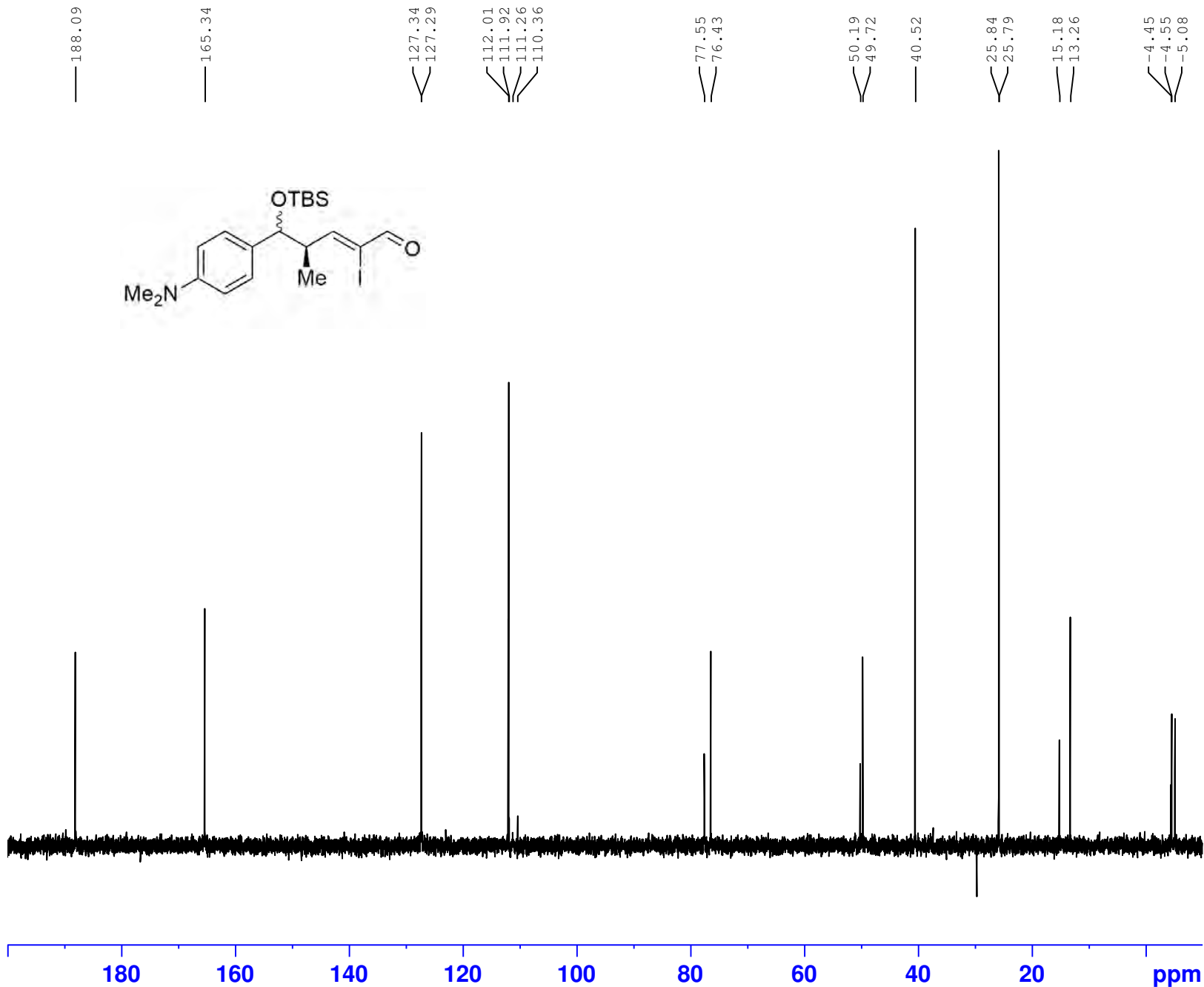
Current Data Parameters
NAME I-PK-77PURE
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180517
Time 19.21
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549378 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



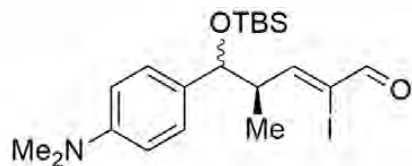
Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180517
 Time 19.38
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549377 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date 20180517
 Time 19.47
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgpsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 300.0 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 0.00001910 sec

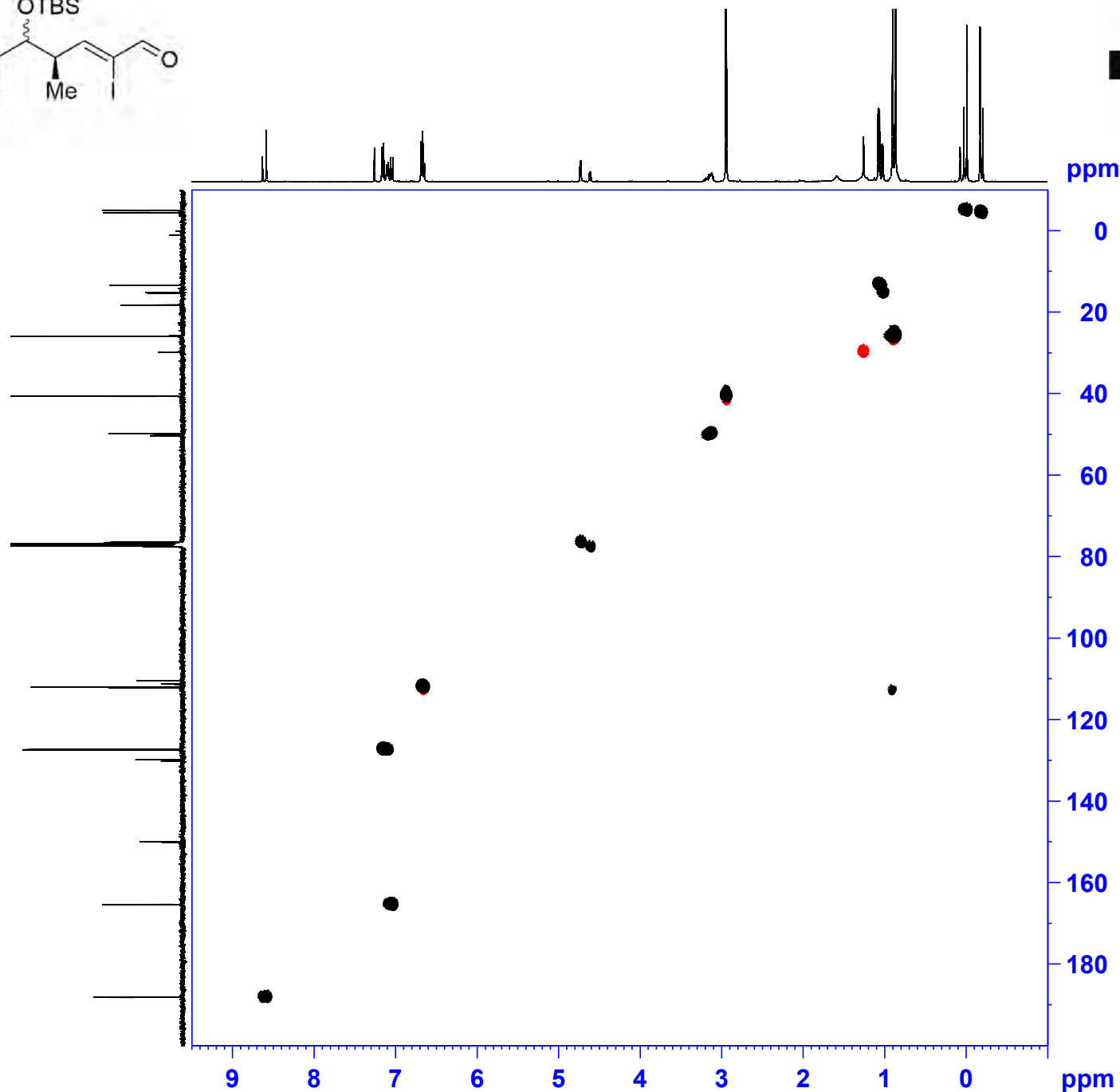
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 1H
 P1 14.88 usec
 P2 29.76 usec
 P28 0 usec
 PLW1 7.59999990 W

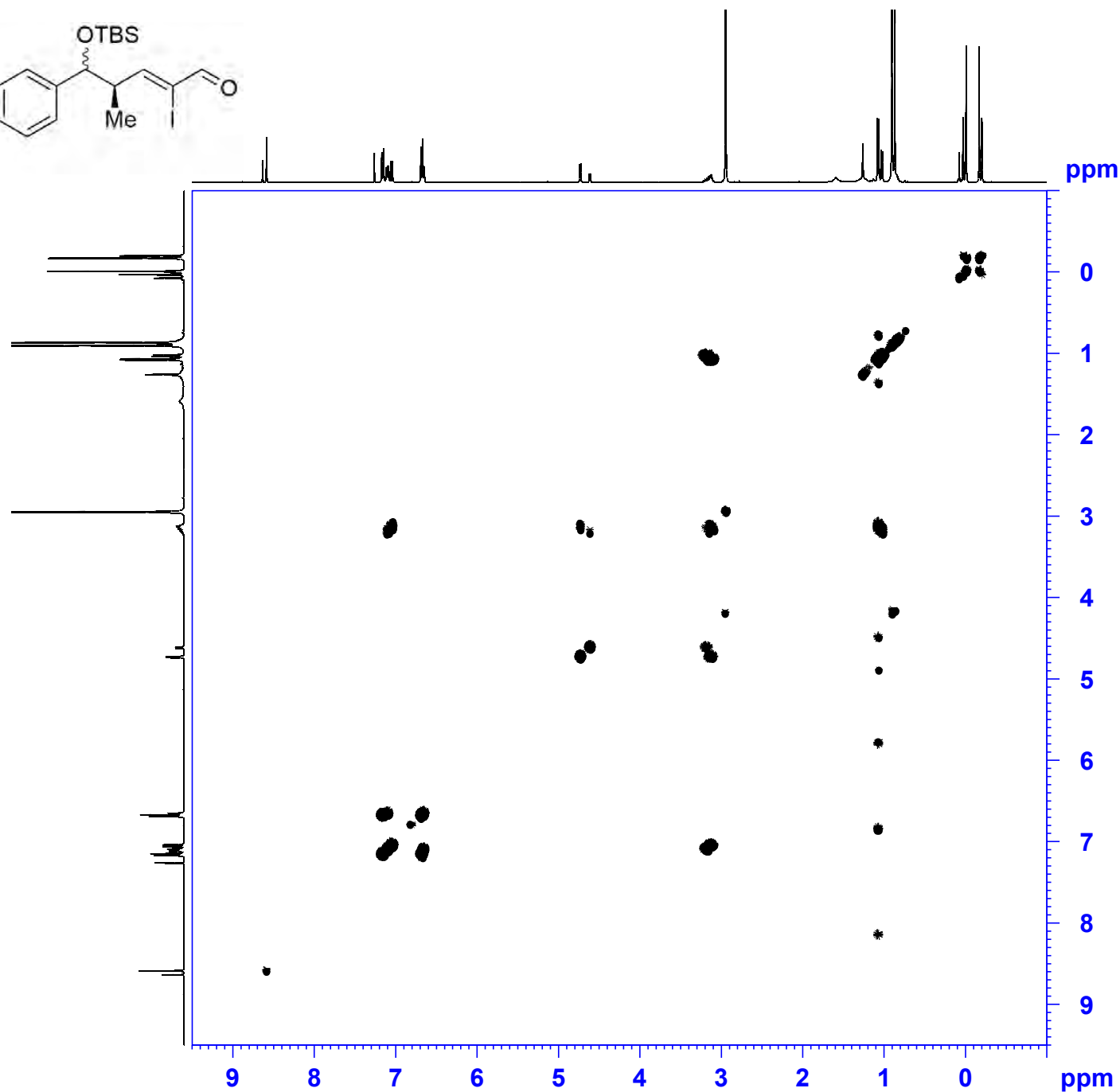
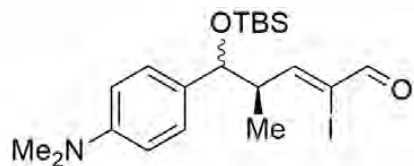
===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 13C
 CPDPRG2 garp4
 P3 10.00 usec
 P14 500.00 usec
 P31 1900.00 usec
 PCPD2 80.00 usec
 PLW0 0 W
 PLW2 44.46300125 W
 PLW12 0.69472998 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 6.79339981 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FMODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 399.9018806 MHz





Current Data Parameters
 NAME I-PK-77PURE
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180517
 Time 19.40
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDC13
 NS 1
 DS 8
 SWH 4201.681 Hz
 FIDRES 2.051602 Hz
 AQ 0.2437120 sec
 RG 2050
 DW 119.000 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.90497202 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 INO 0.00023800 sec

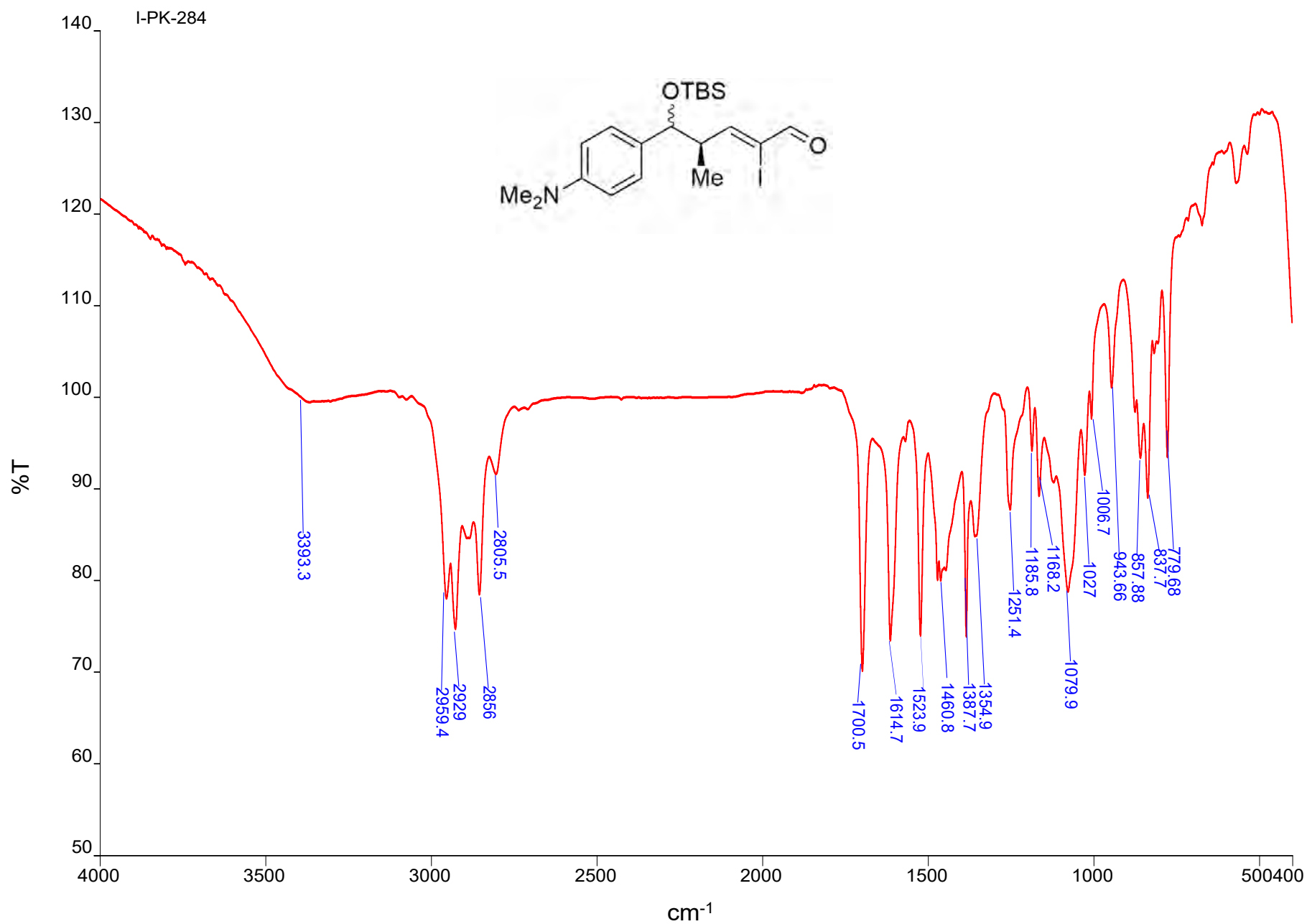
===== CHANNEL f1 =====
 SFO1 399.9016818 MHz
 NUC1 ^1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9017 MHz
 FIDRES 32.825630 Hz
 SW 10.507 ppm
 F1MODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000095 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 FC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000110 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0

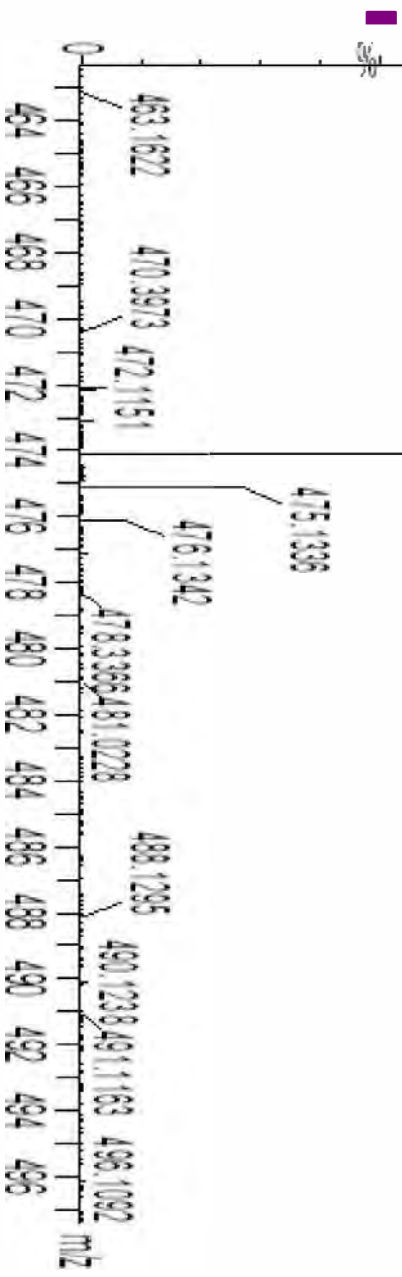


10-05-2018

1: TOF MS ES+



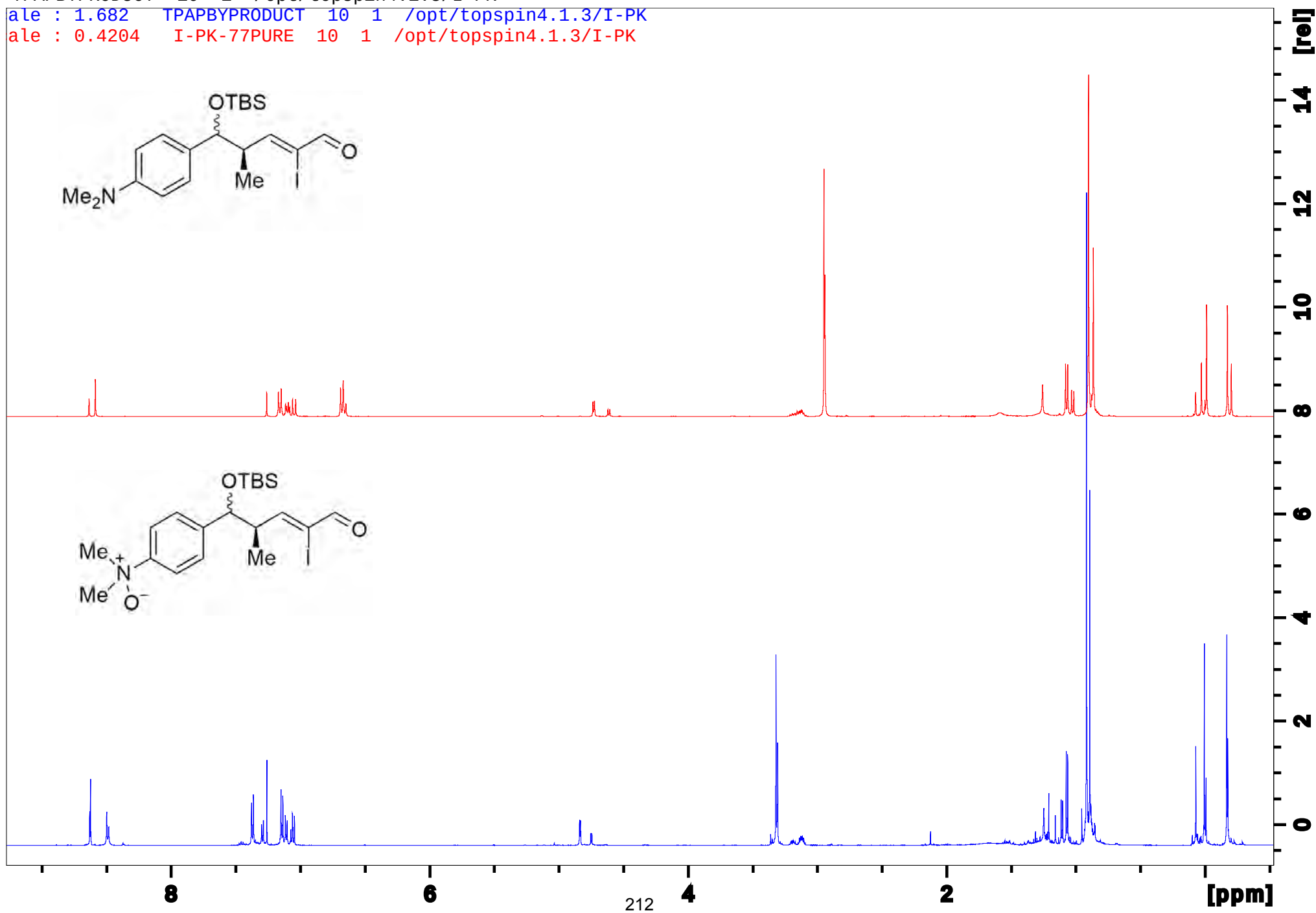
1: TOF MS ES+



TPAPBYPRODUCT 10 1 /opt/topspin4.1.3/I-PK

ale : 1.682 TPAPBYPRODUCT 10 1 /opt/topspin4.1.3/I-PK

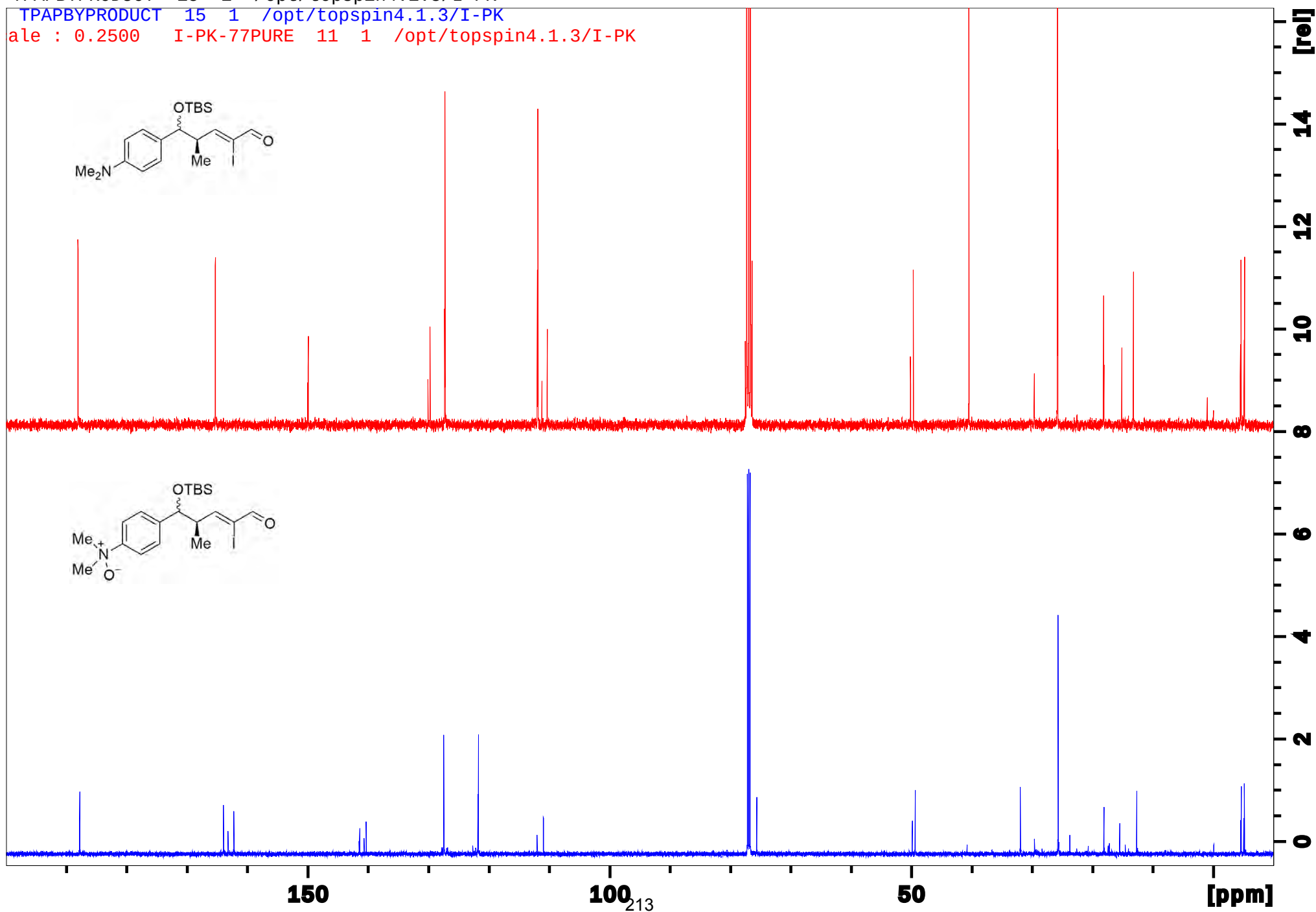
ale : 0.4204 I-PK-77PURE 10 1 /opt/topspin4.1.3/I-PK



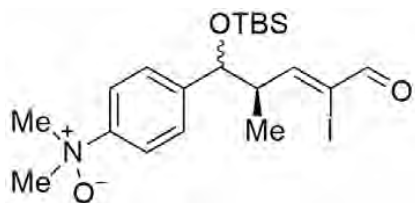
TPAPBYPRODUCT 15 1 /opt/topspin4.1.3/I-PK

TPAPBYPRODUCT 15 1 /opt/topspin4.1.3/I-PK

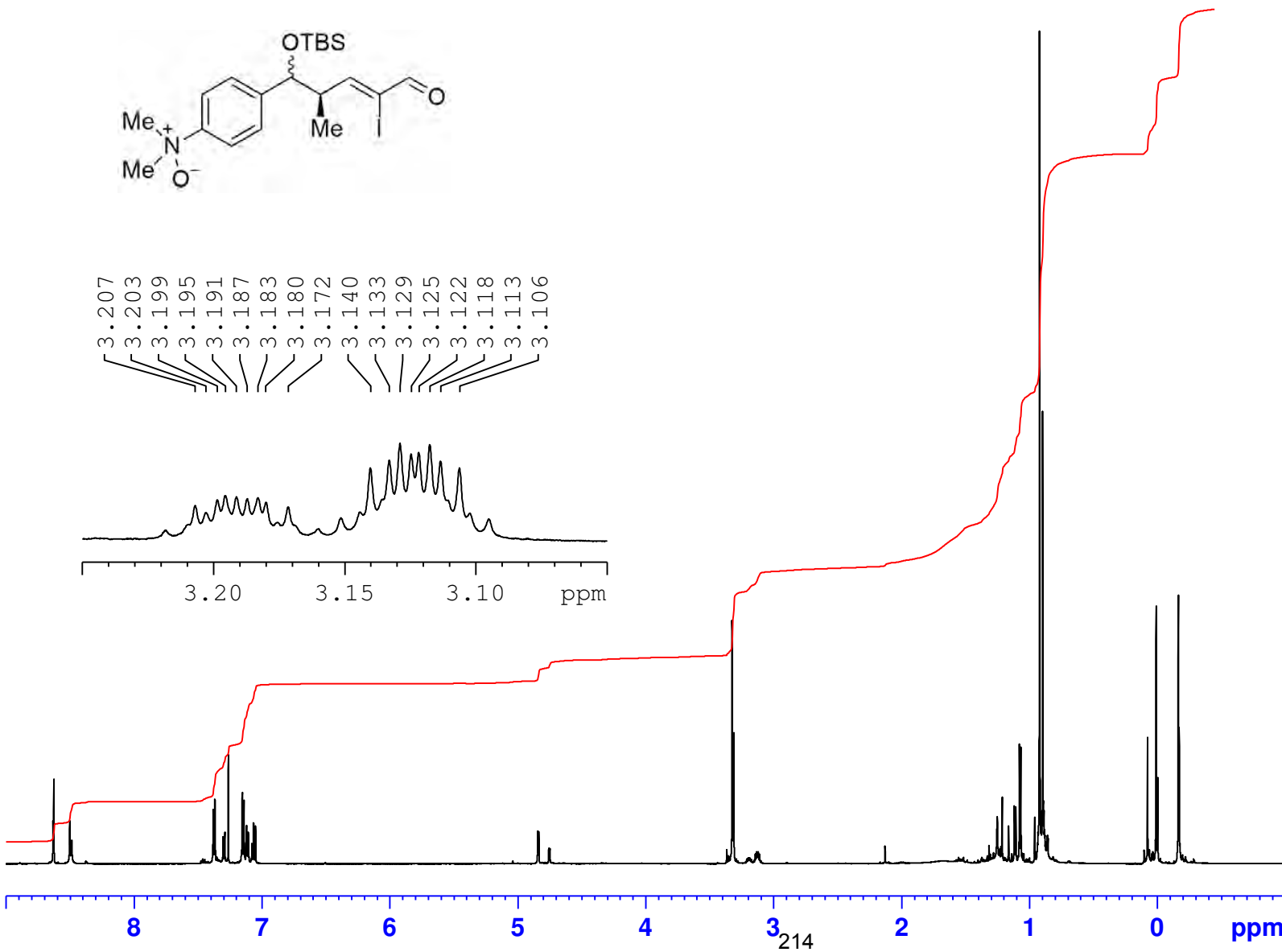
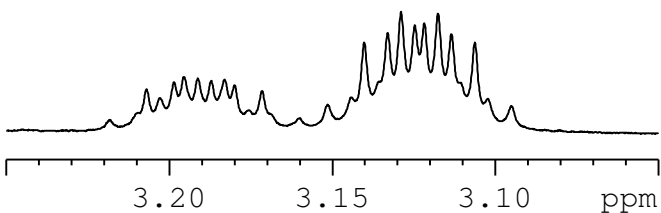
ale : 0.2500 I-PK-77PURE 11 1 /opt/topspin4.1.3/I-PK



8.631
8.625
8.499
7.379
7.365
7.301
7.287
7.260
7.151
7.137
7.118
7.104
7.063
7.047
4.841
4.833
3.322
3.309
3.133
3.129
3.125
3.122
3.118
3.113
1.248
1.210
1.160
1.115
1.104
1.075
1.064
0.955
0.930
0.918
0.905
0.898
0.894
0.889
0.885
0.880
0.877
0.856
0.073
0.006
-0.007
-0.167
-0.174



3.207
3.203
3.199
3.195
3.191
3.187
3.183
3.180
3.172
3.140
3.133
3.129
3.125
3.122
3.118
3.113
3.106

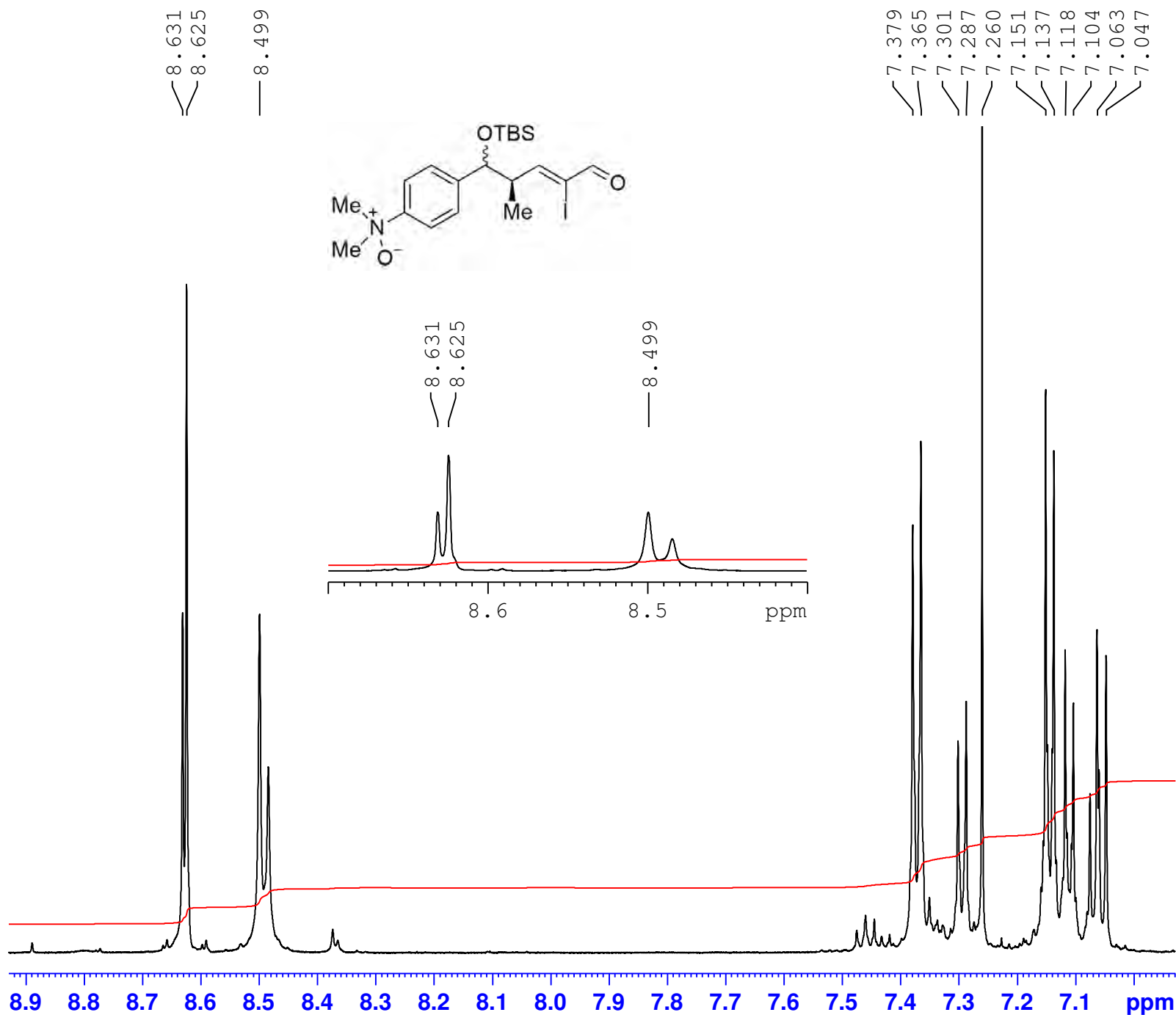


Current Data Parameters
NAME TPAPBYPRODUCT
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190924
Time 12.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDC13
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300145 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Current Data Parameters
 NAME TPAPBYPRODUCT
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190924
 Time 12.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300145 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

4.841
4.833
4.754
4.746

3.322
3.309
3.207
3.203
3.199
3.195
3.191
3.187
3.183
3.180
3.172
3.140
3.133
3.129
3.125

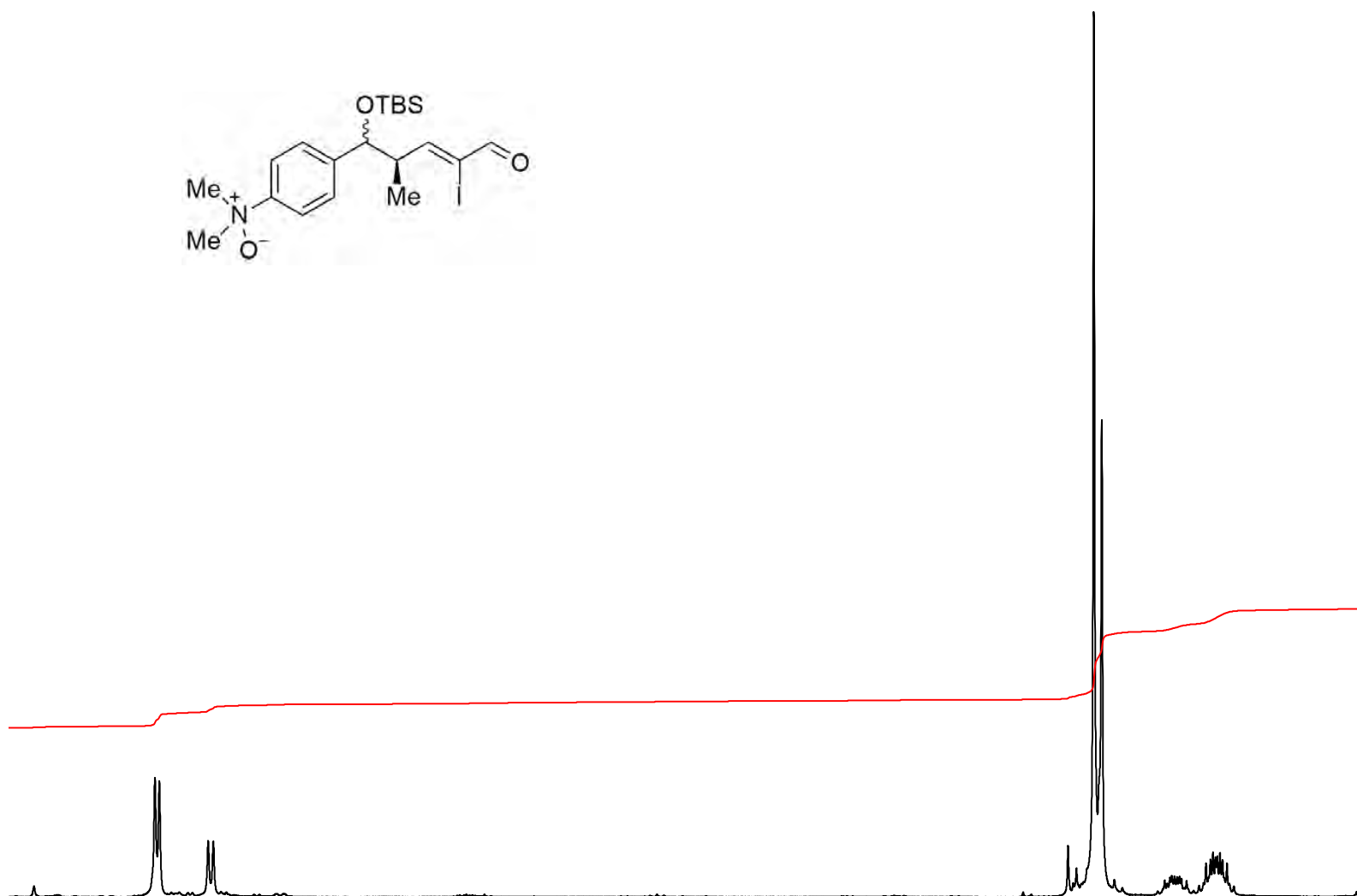
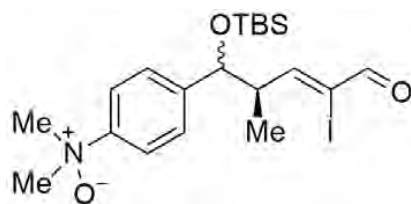


Current Data Parameters
NAME TPAPBYPRODUCT
EXPNO 10
PROCNO 1

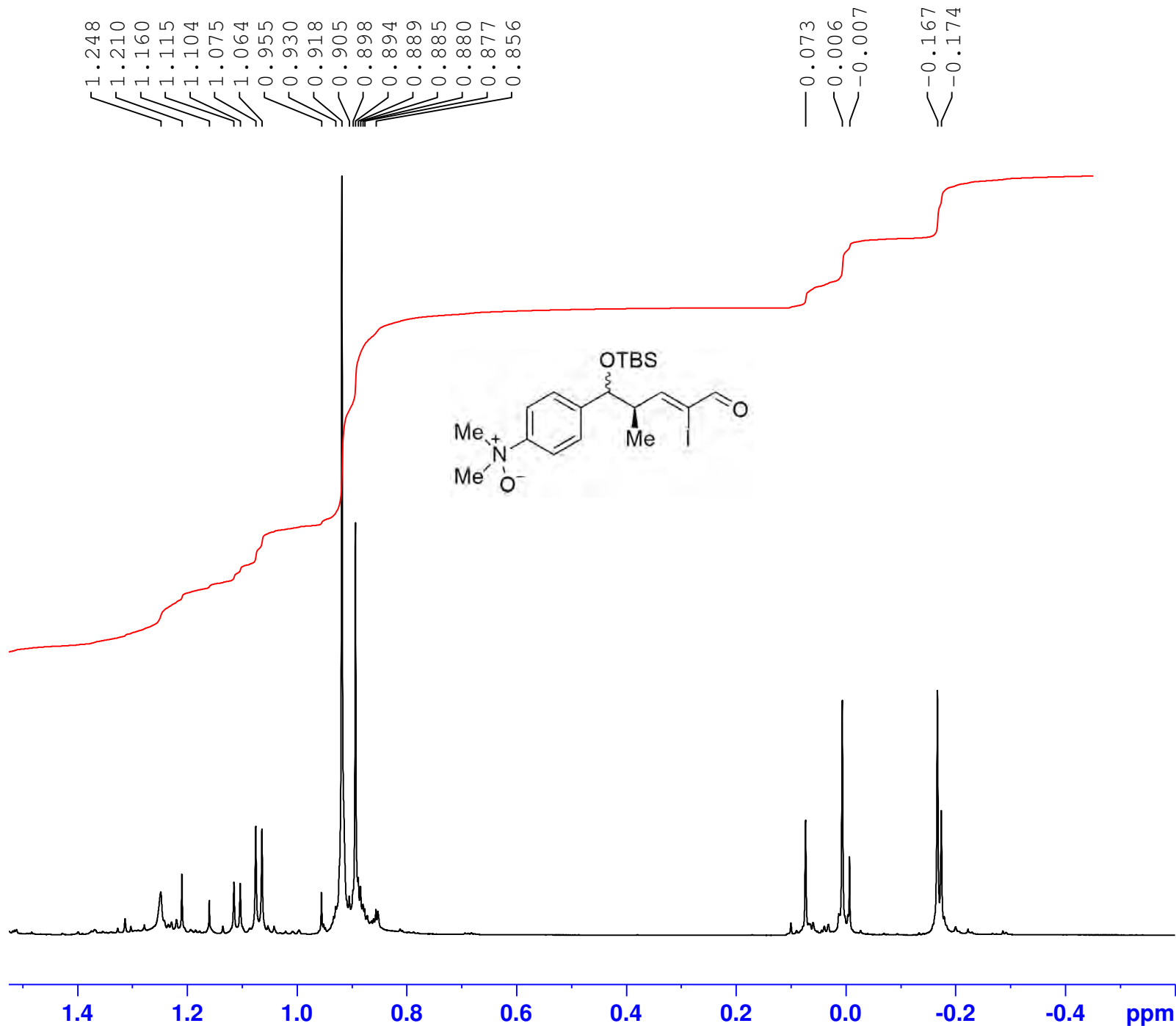
F2 - Acquisition Parameters
Date_ 20190924
Time 12.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT CDCl3
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300145 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0 3.9 3.8 3.7 3.6 3.5 3.4 3.3 3.2 3.1 ppm

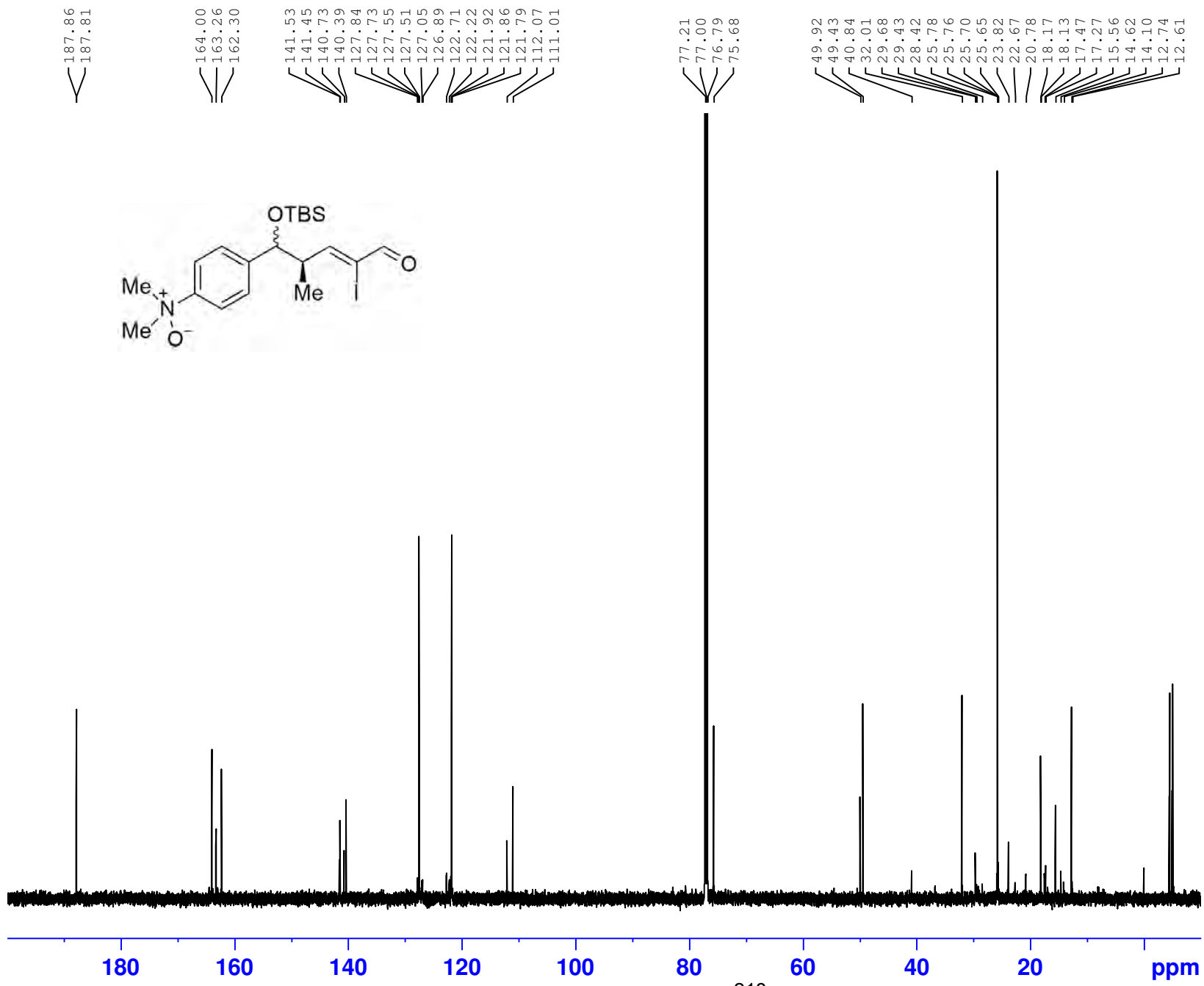


Current Data Parameters
 NAME TPAPBYPRODUCT
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190924
 Time 12.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300145 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



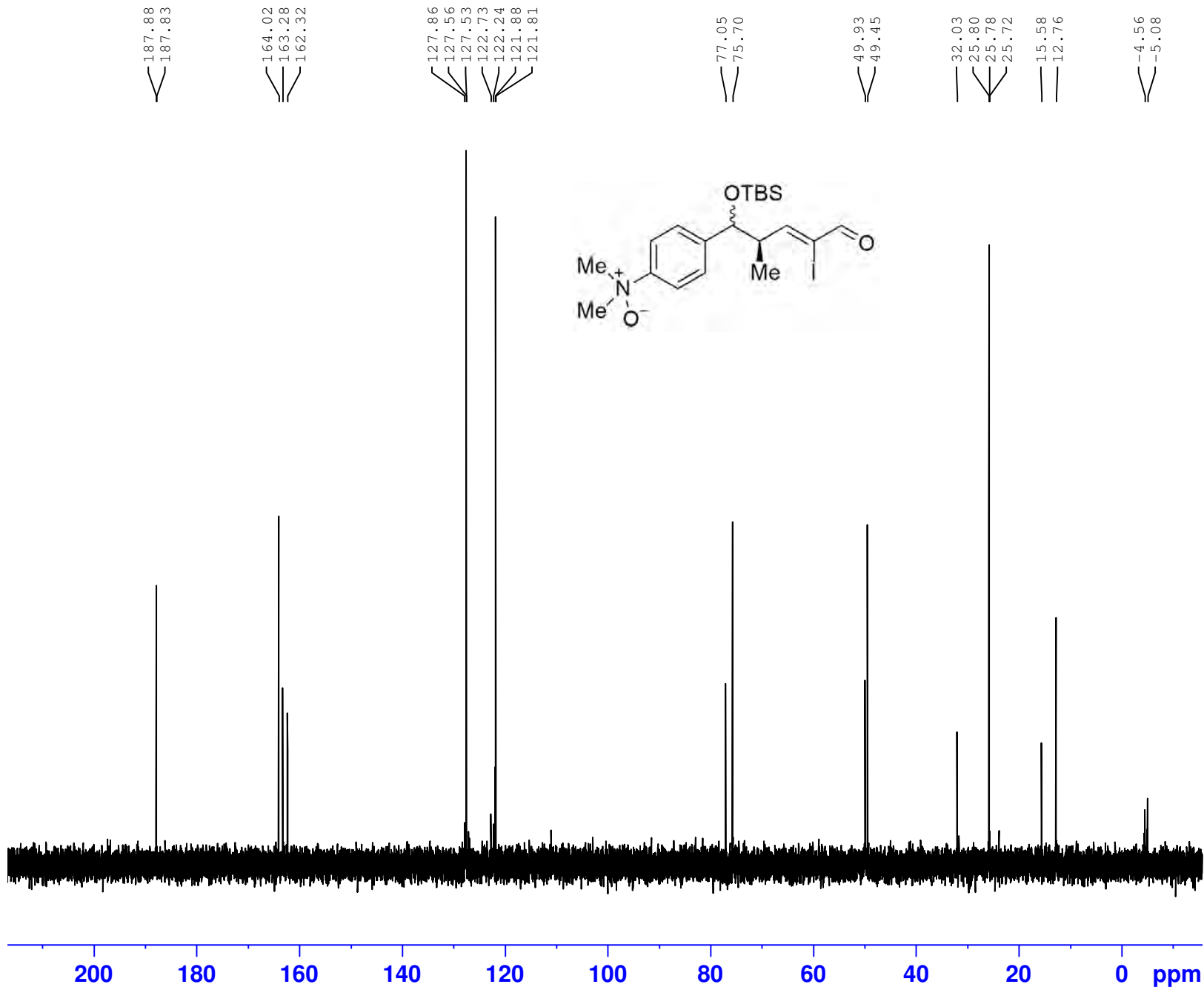
Current Data Parameters
 NAME TPAPBYPRODUCT
 EXPNO 15
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190924
 Time 15.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.315010 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 7.73 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 150.9194058 MHz
 NUC1 13C
 P1 11.80 usec
 PLW1 85.00000000 W

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W
 PLW13 0.28090999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028113 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME TPAPBYPRODUCT
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190924
 Time 15.59
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35.b
 TD 119044
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.300009 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

===== CHANNEL f1 =====
 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

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W

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

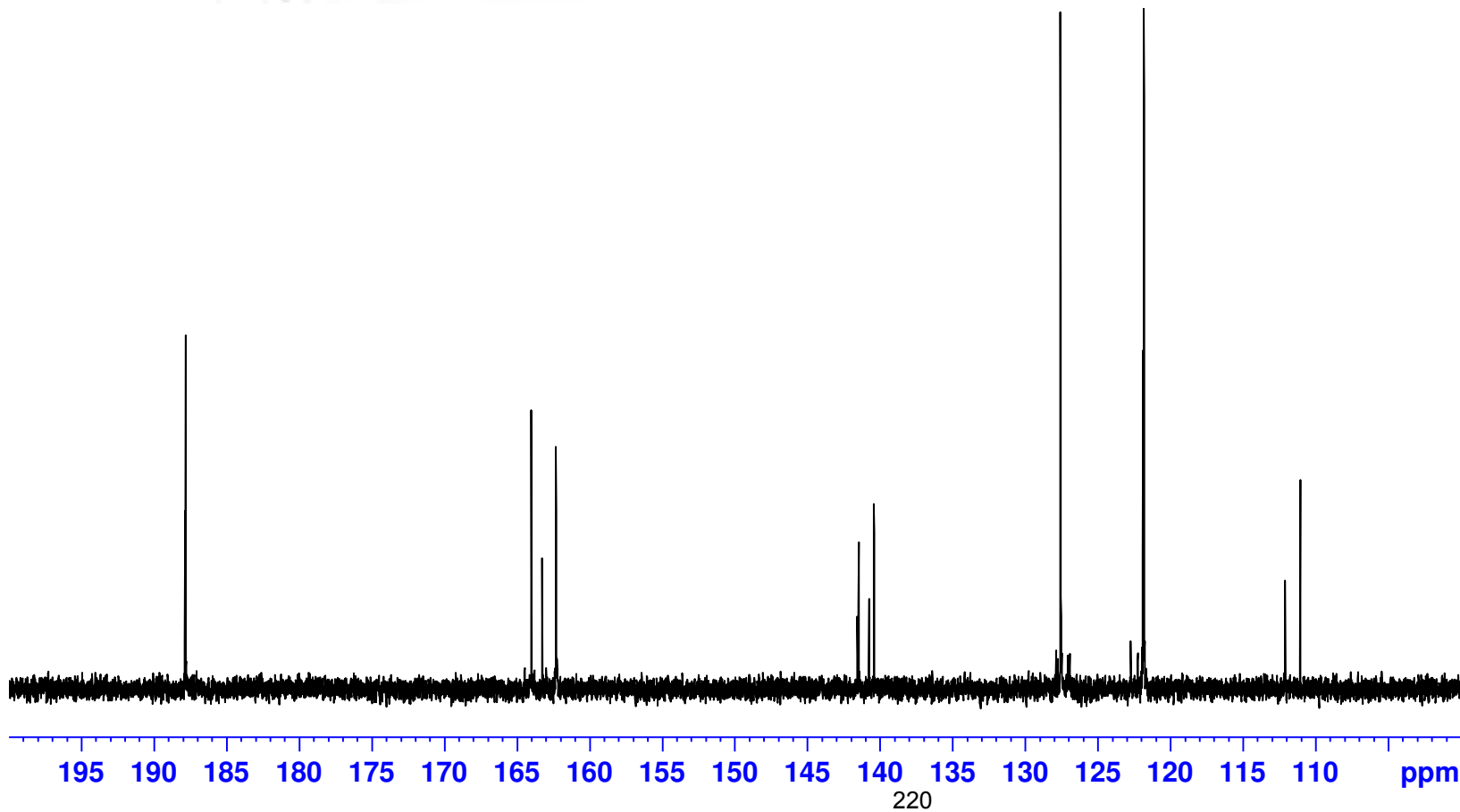
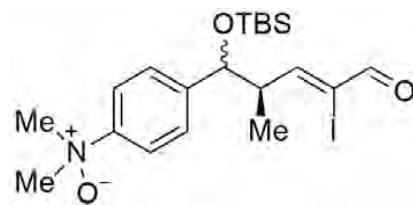
187.86
187.81

164.00
163.26
162.30

141.53
141.45
140.73
140.39

127.84
127.73
127.55
127.51
127.05
126.89
122.71
122.22
121.92
121.86
121.79

112.07
111.01



Current Data Parameters
NAME TPAPBYPRODUCT
EXPNO 15
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190924
Time 15.08
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 37500.000 Hz
FIDRES 0.315010 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 7.73 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 150.9194058 MHz
NUC1 13C
P1 11.80 usec
PLW1 85.00000000 W

===== CHANNEL f2 =====
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 80.00 usec
PLW2 27.00000000 W
PLW12 0.43891999 W
PLW13 0.28090999 W

F2 - Processing parameters
SI 131072
SF 150.9028113 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
NAME TPAPBYPRODUCT
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190924
Time 16.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygmfpqf
TD 2048
SOLVENT CDC13
NS 1
DS 8
SWH 7763.975 Hz
FIDRES 3.791003 Hz
AQ 0.1318912 sec
RG 186.92
DW 64.400 usec
DE 6.50 usec
TE 300.0 K
DO 0.00000300 sec
D1 0.93241531 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00012880 sec

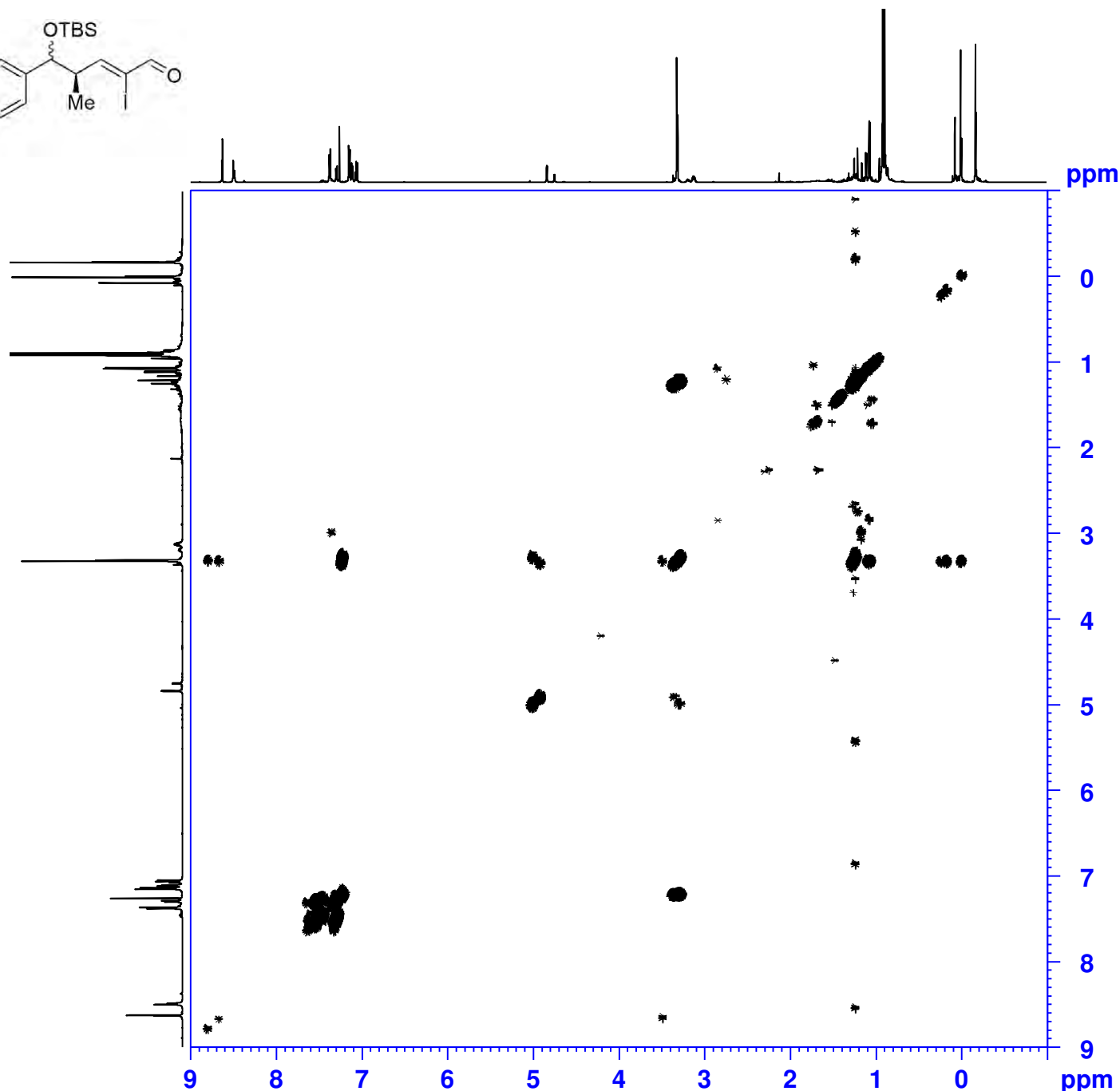
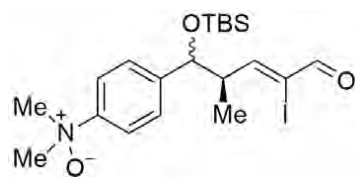
===== CHANNEL f1 =====
SFO1 600.1319161 MHz
NUC1 1H
P1 10.00 usec
P17 2500.00 usec
PLW1 26.60000038 W
PLW10 3.93490005 W

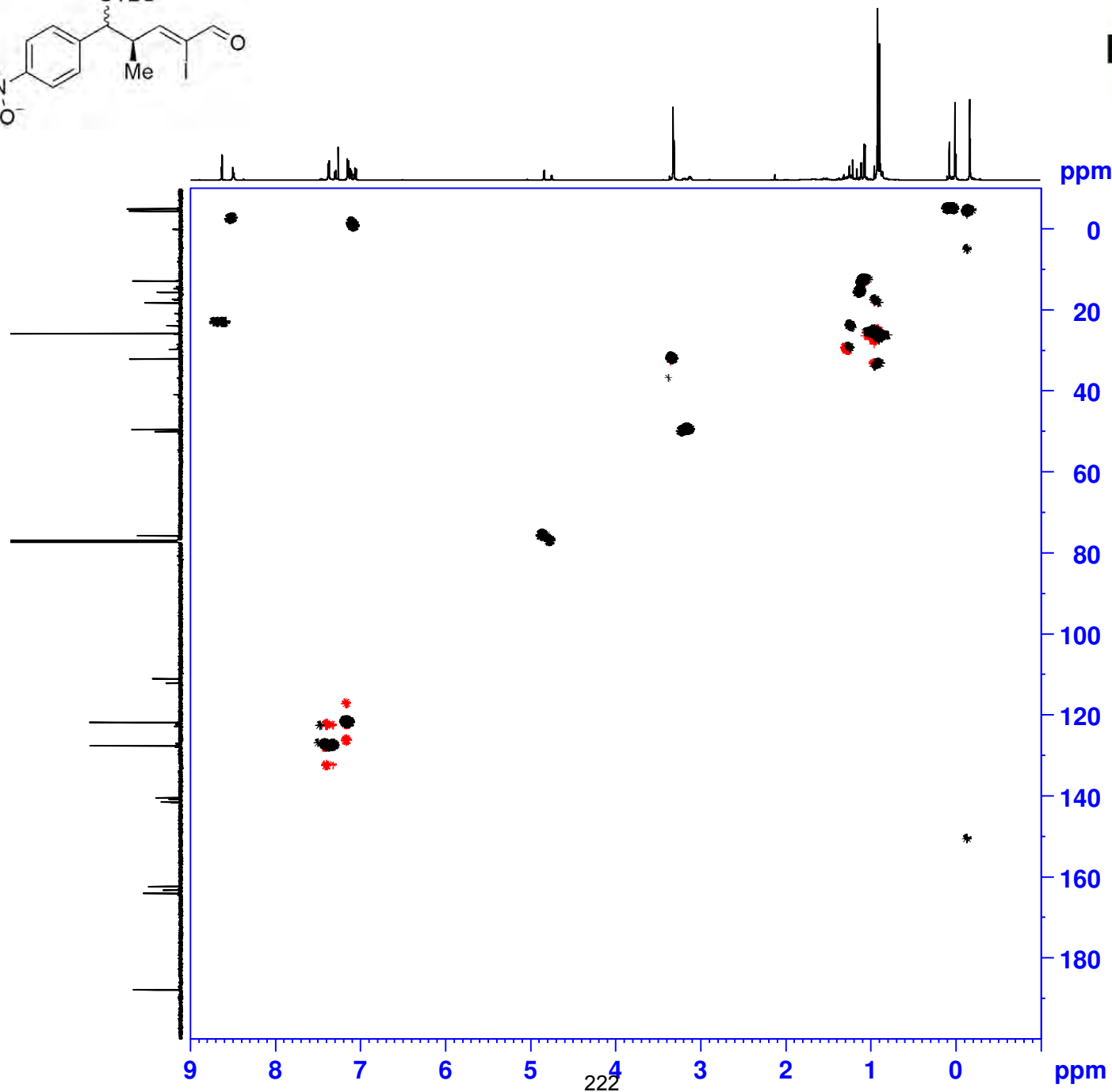
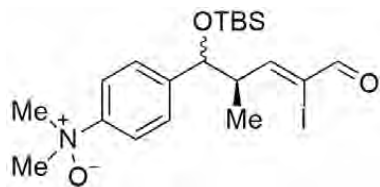
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GPZ1 16.00 %
GPZ2 12.00 %
GPZ3 40.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 600.1319 MHz
FIDRES 60.656055 Hz
SW 12.937 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 600.1299140 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 600.1299140 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0





Current Data Parameters
NAME TPAPBYPRODUCT
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190924
Time 16.06
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgppp.3
TD 1024
SOLVENT CDC13
NS 2
DS 32
SWH 7211.539 Hz
FIDRES 7.042518 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 0.00002010 sec

===== CHANNEL f1 =====
SFO1 600.1328223 MHz
NUC1 1H
P1 10.00 usec
P2 20.00 usec
F28 0 usec
PLW1 26.60000038 W

===== CHANNEL f2 =====
SFO2 150.9141236 MHz
NUC2 13C
PCPDPRG2 garp4
P3 11.80 usec
P14 500.00 usec
P31 1730.00 usec
PCPD2 65.00 usec
PLW0 0 W
PLW2 85.00000000 W
PLW12 2.80130005 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

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 150.9141 MHz
FIDRES 194.340790 Hz
SW 164.833 ppm
FnMODE Echo-Antiecho

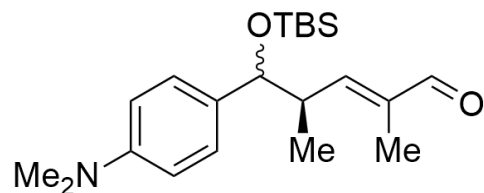
F2 - Processing parameters
SI 1024
SF 600.1300000 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 150.9028085 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0

9.399
9.306
7.260
7.100
7.094
7.089
7.083
7.078
7.072
6.660
6.655
6.646
6.638
6.630
6.624
6.442
6.439
6.417
6.414
6.318
6.314
6.292
6.289
4.505
4.491
4.474
4.459

2.933
2.927

1.618
1.615
1.612
1.608
1.073
1.057
0.888
0.838
-0.000
-0.004
-0.011
-0.198

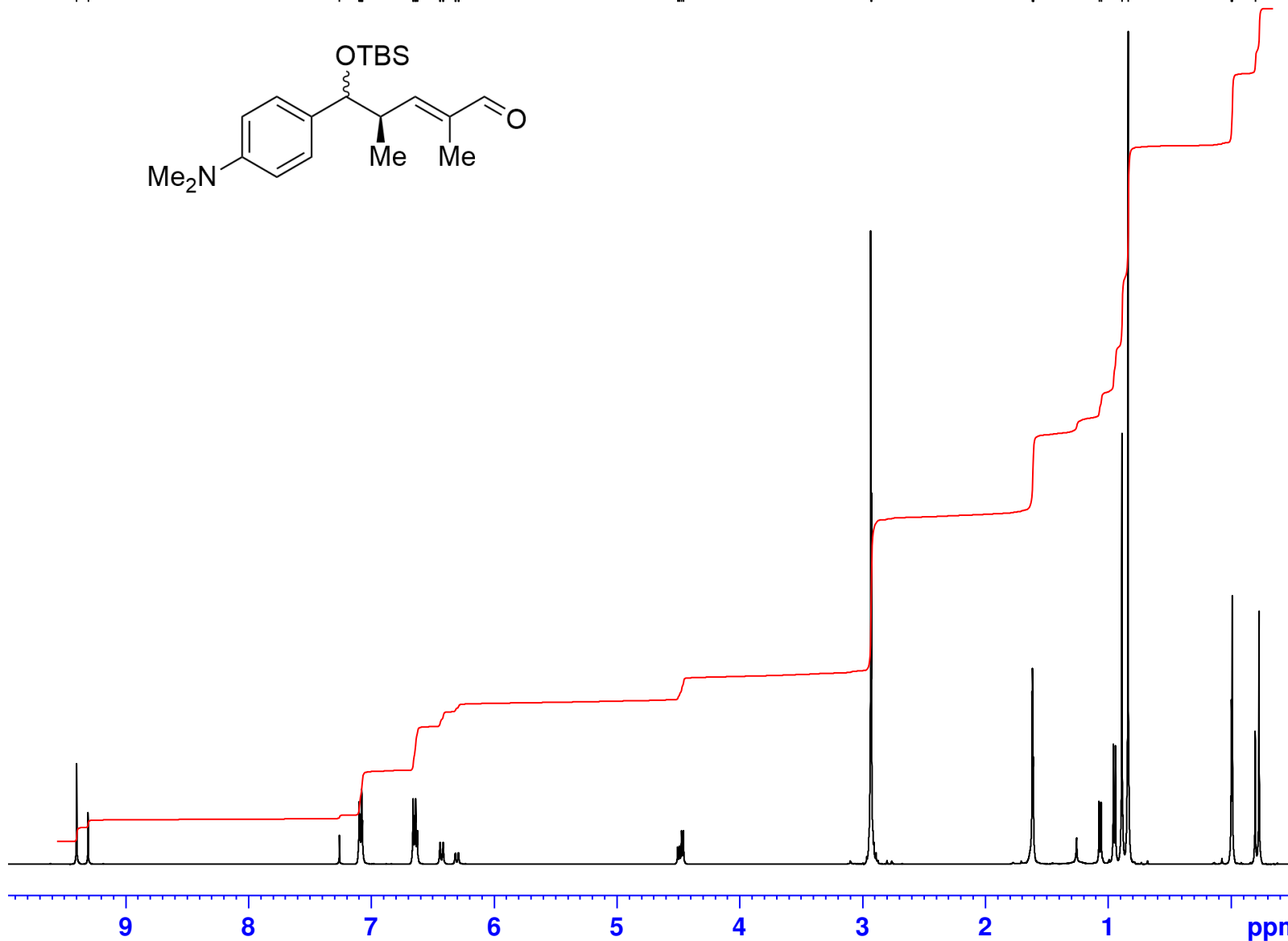


Current Data Parameters
NAME I-PK-285
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190514
Time 12.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



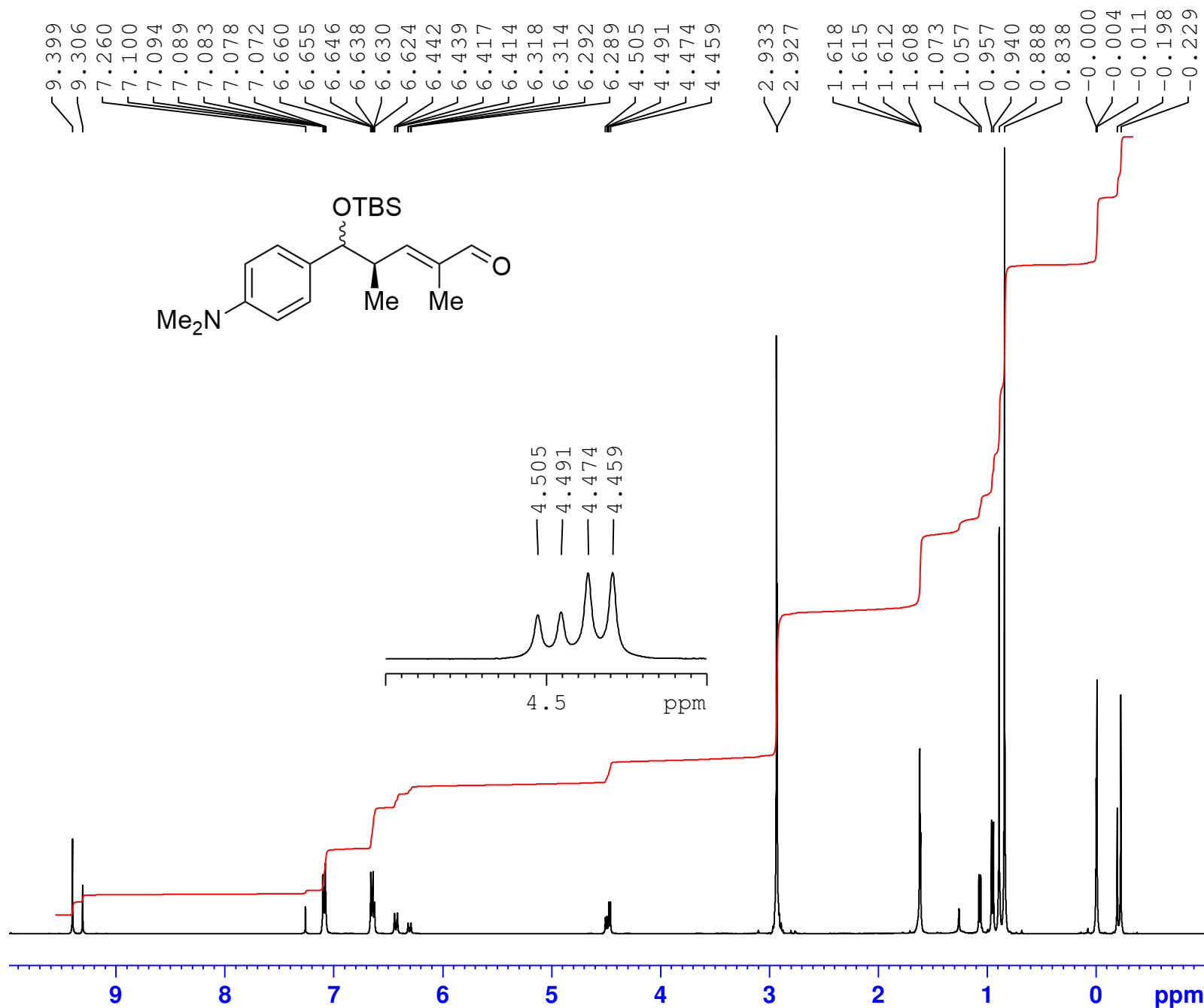


Current Data Parameters
 NAME I-PK-285
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time 12.45
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 50.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000095 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



— 7.260

7.100
7.094
7.089
7.083
7.078
7.072

6.660
6.655
6.646
6.638
6.630
6.624

6.442
6.439
6.417
6.414

6.318
6.314
6.292
6.289

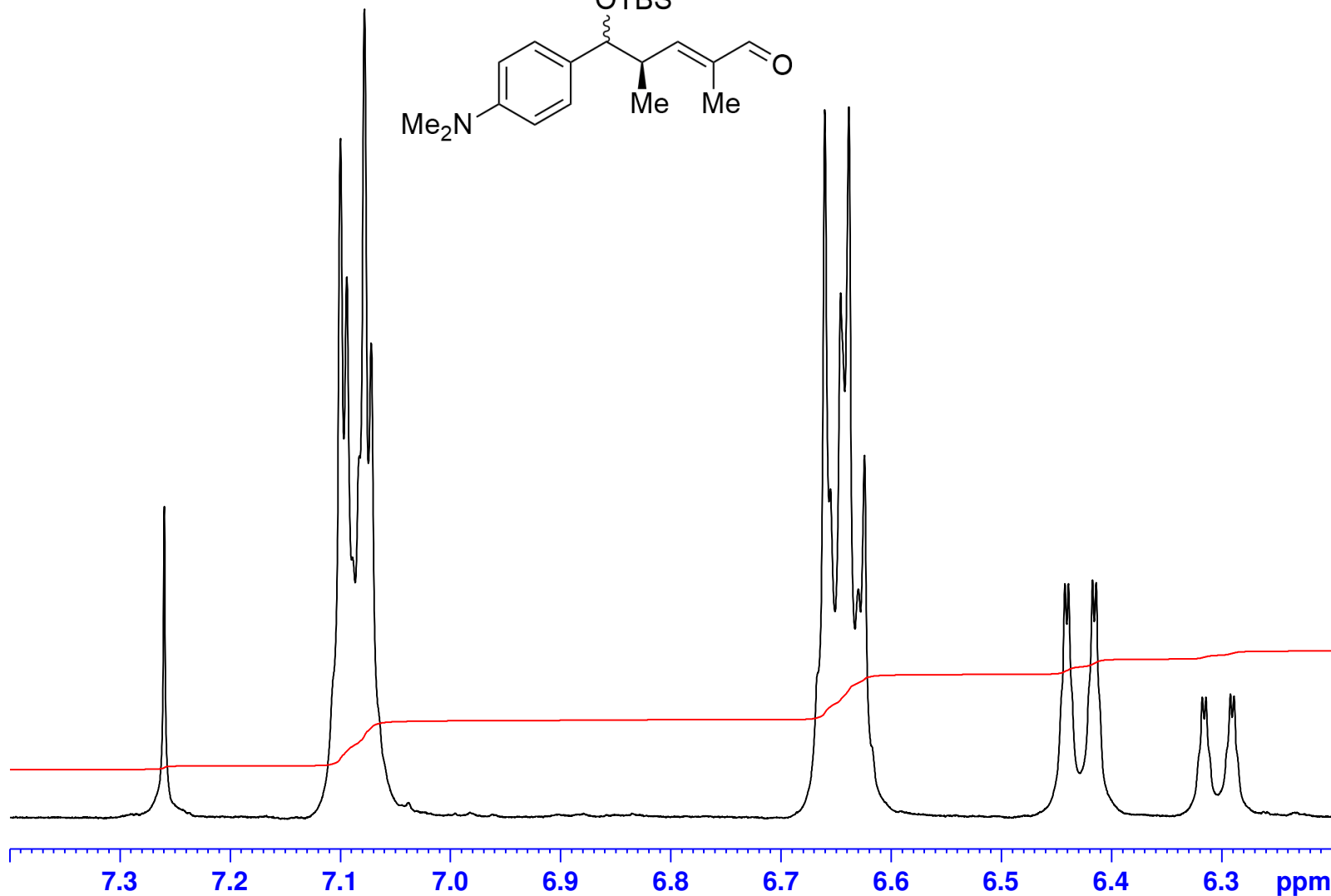
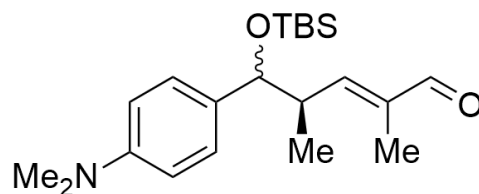


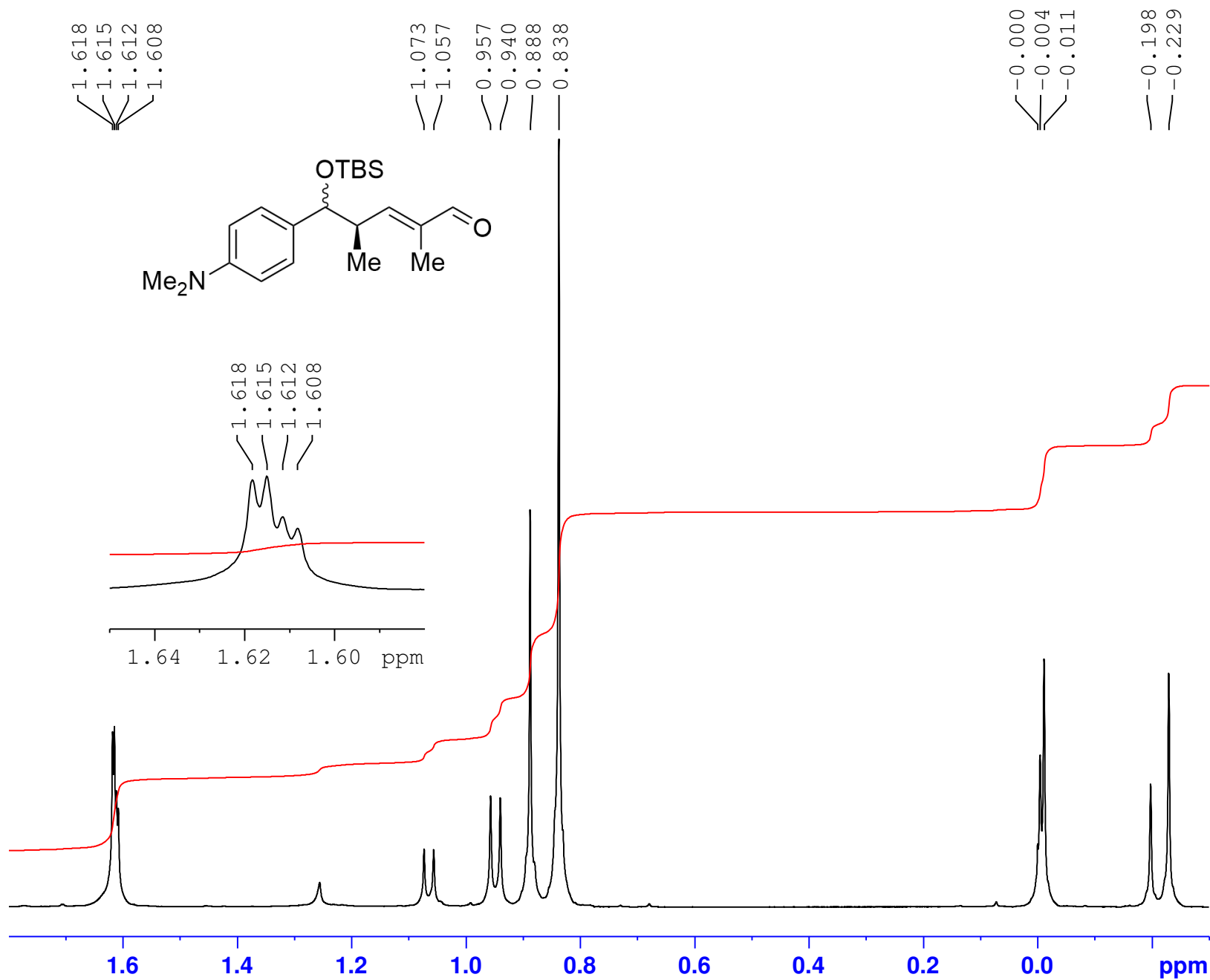
Current Data Parameters
NAME I-PK-285
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190514
Time 12.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 50.8
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000095 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



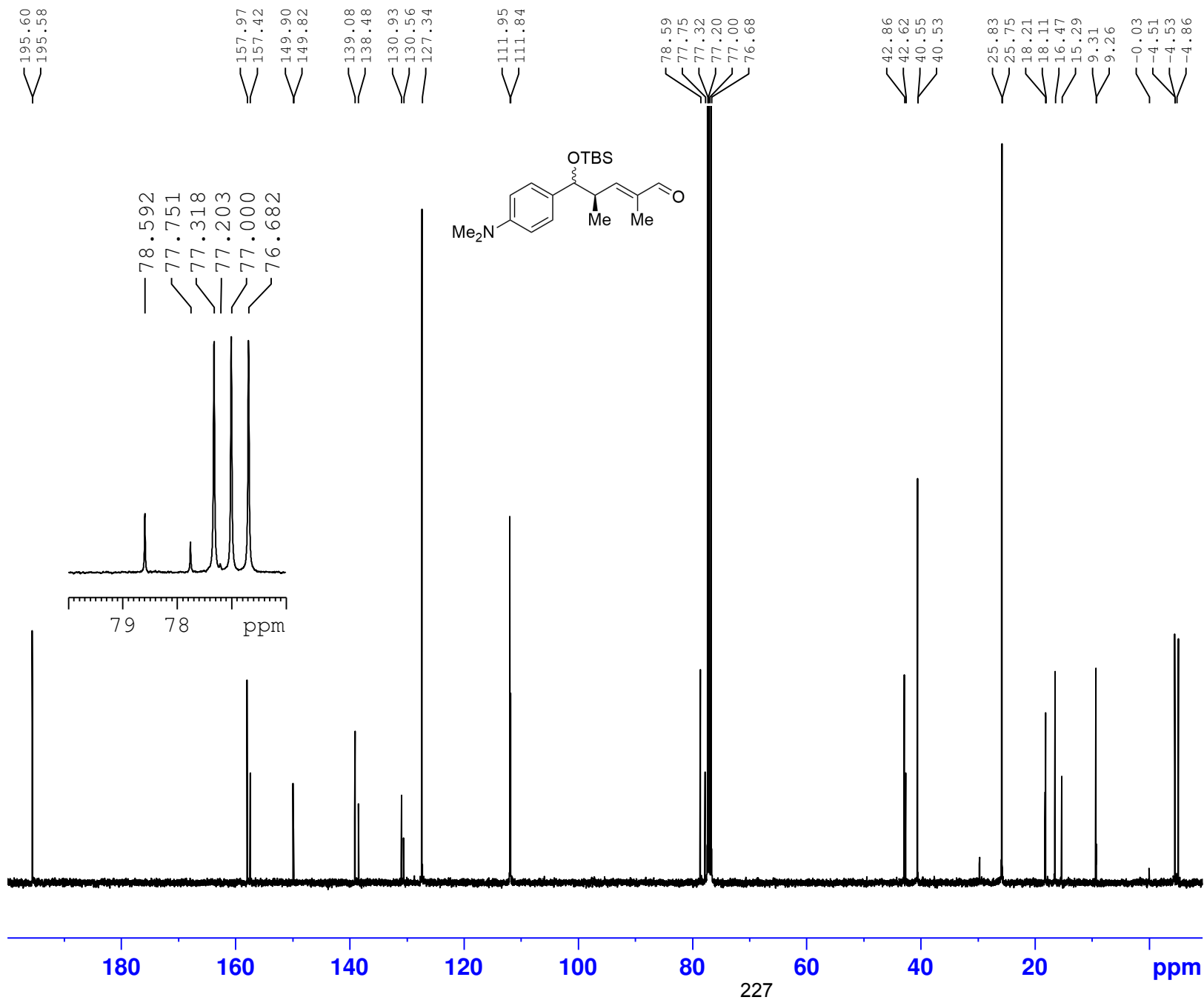


Current Data Parameters
 NAME I-PK-285
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time 12.45
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 50.8
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000095 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME I-PK-285
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time 18.13
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549379 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



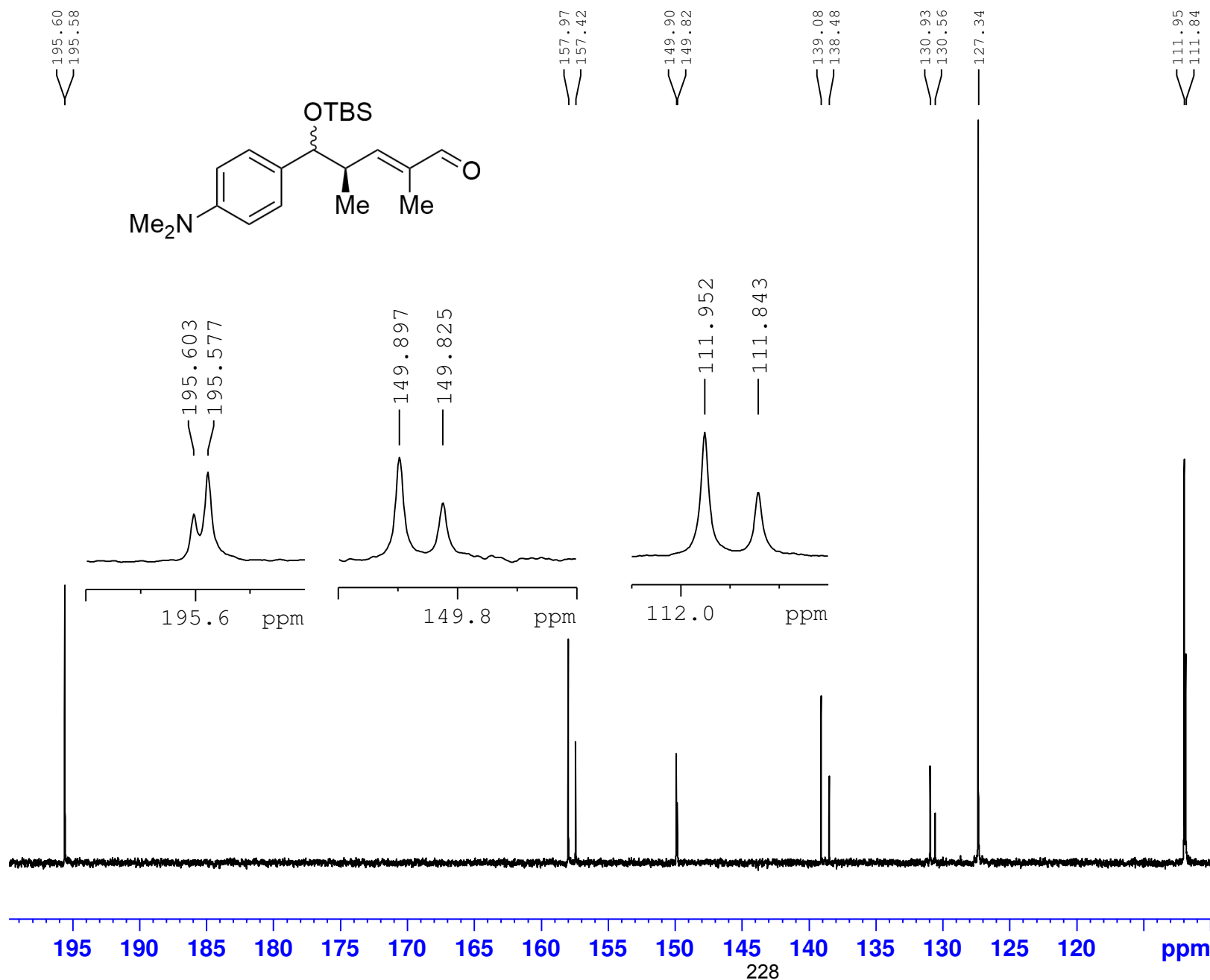
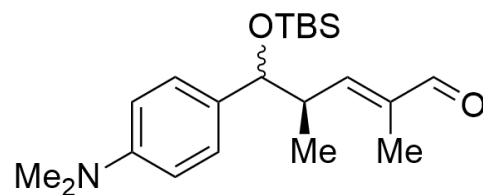
Current Data Parameters
NAME I-PK-285
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190514
Time 18.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SFO2 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549379 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





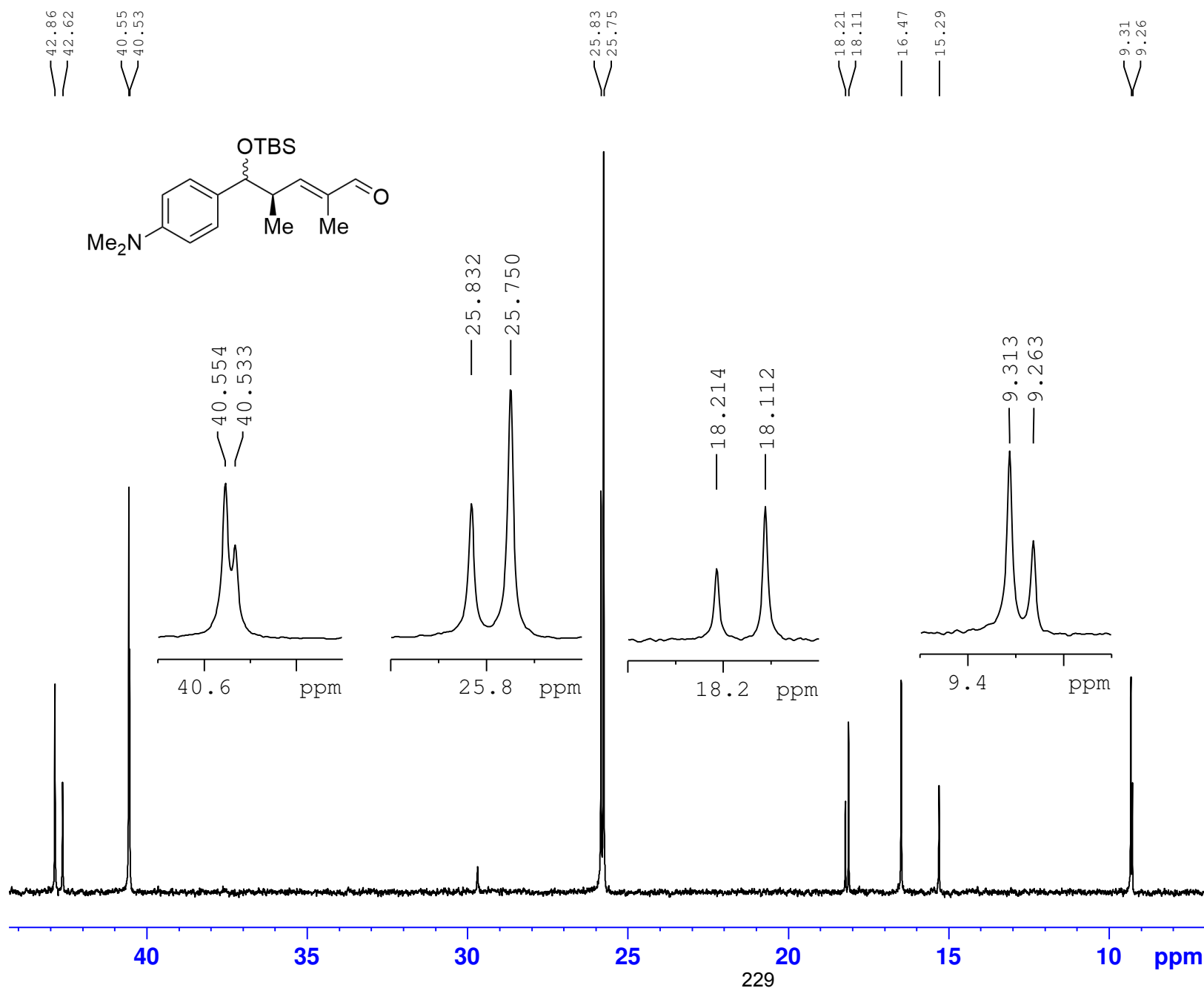
Current Data Parameters
 NAME I-PK-285
 EXPNO 11
 PROCNO 1

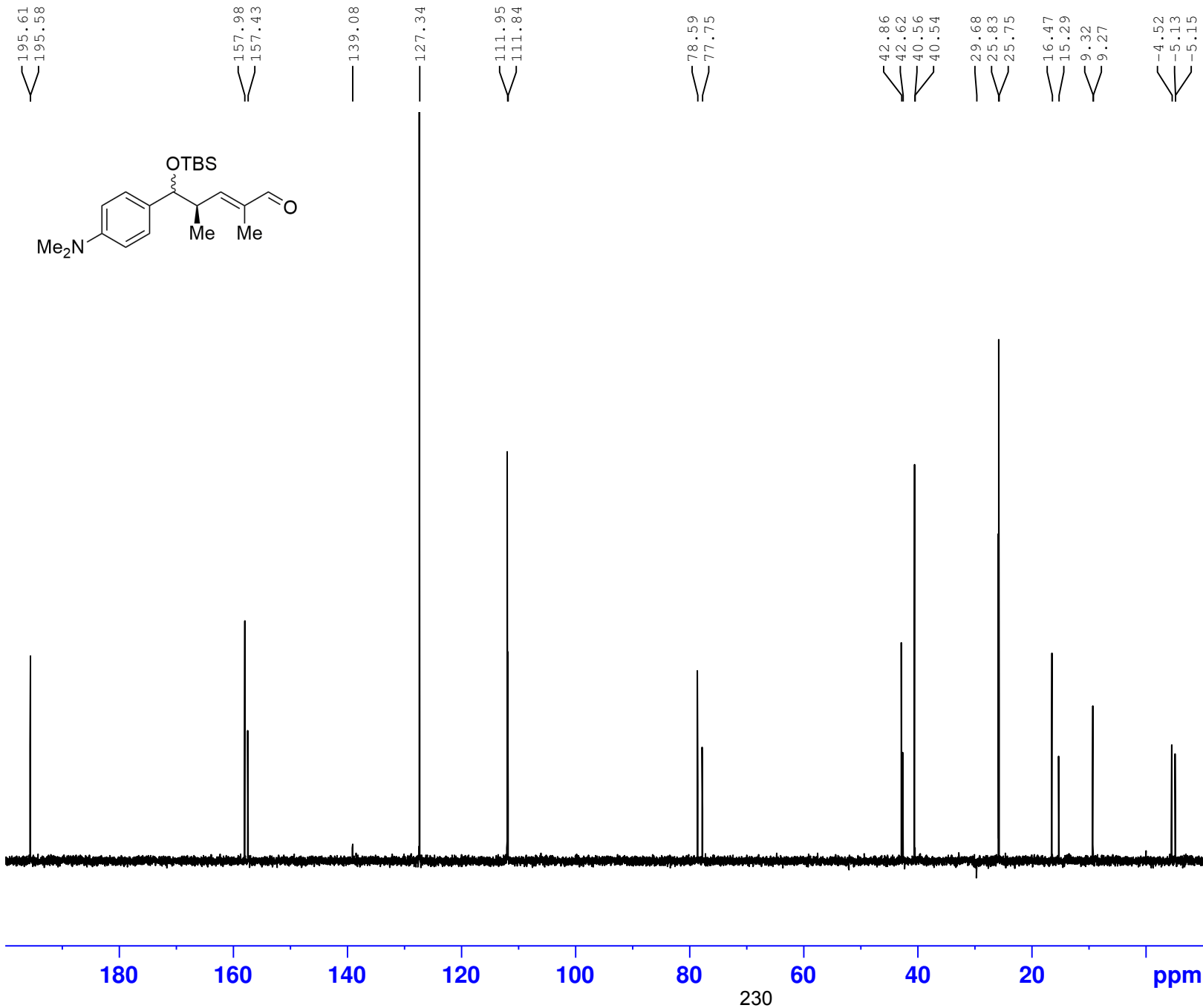
F2 - Acquisition Parameters
 Date_ 20190514
 Time 18.13
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549379 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





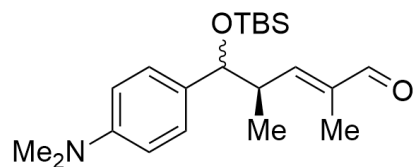
Current Data Parameters
 NAME I-PK-285
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time 18.29
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 1820
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549376 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-285
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time_ 18.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygmfpqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 4545.455 Hz
 FIDRES 2.219460 Hz
 AQ 0.2252800 sec
 RG 2050
 DW 110.000 usec
 DE 6.50 usec
 TE 300.0 K
 DO 0.00000300 sec
 D1 0.92545187 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00021980 sec

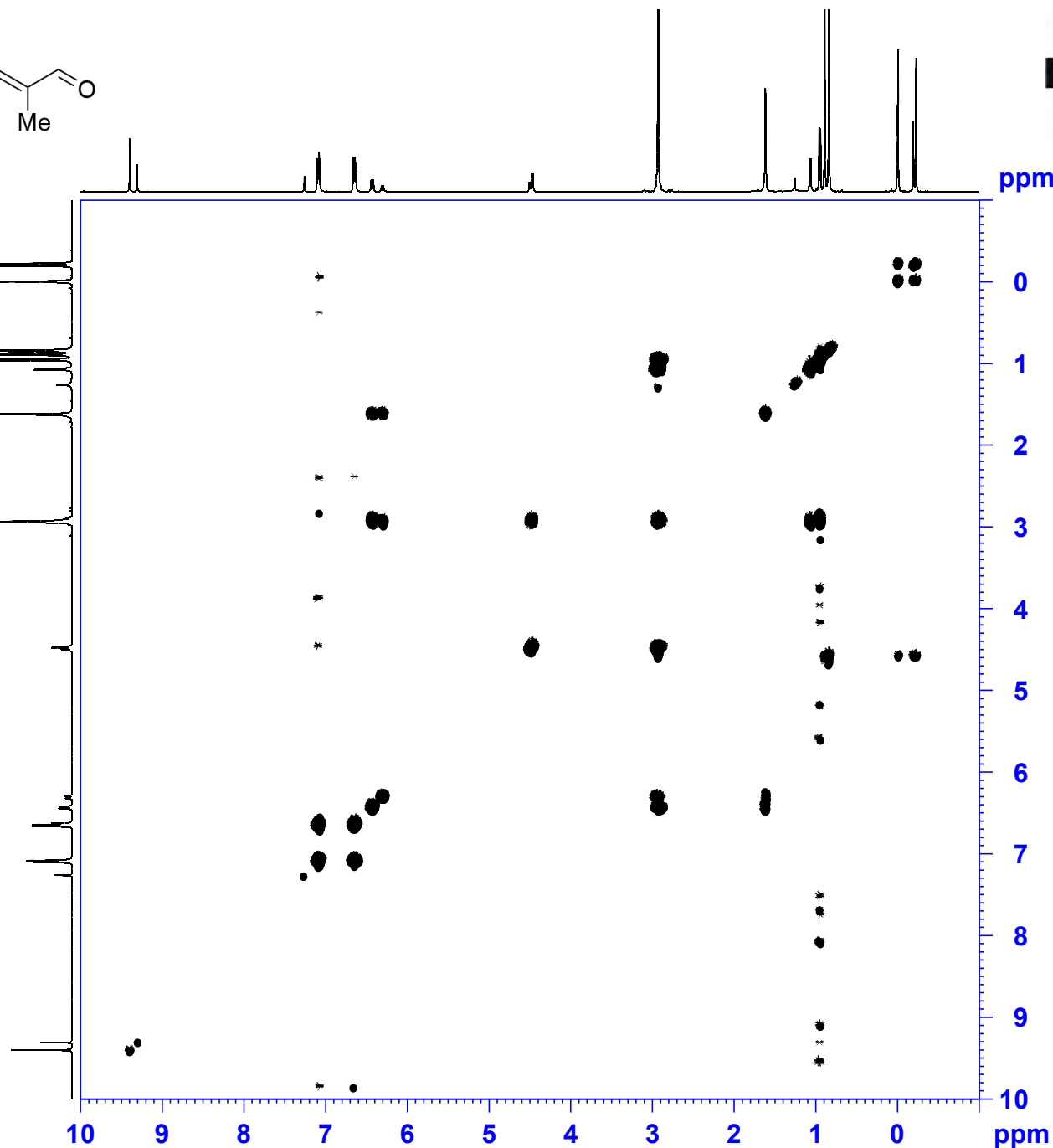
===== CHANNEL f1 =====
 SFO1 399.9018381 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

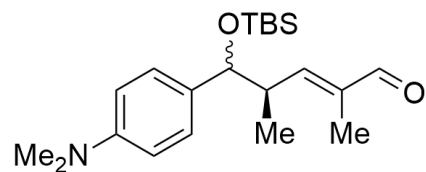
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9018 MHz
 FIDRES 35.543674 Hz
 SW 11.377 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000100 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000122 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Current Data Parameters
 NAME I-PK-285
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190514
 Time 18.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgpp.3
 TD 1024
 SOLVENT CDCl₃
 NS 2
 DS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 300.1 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 0.00001910 sec

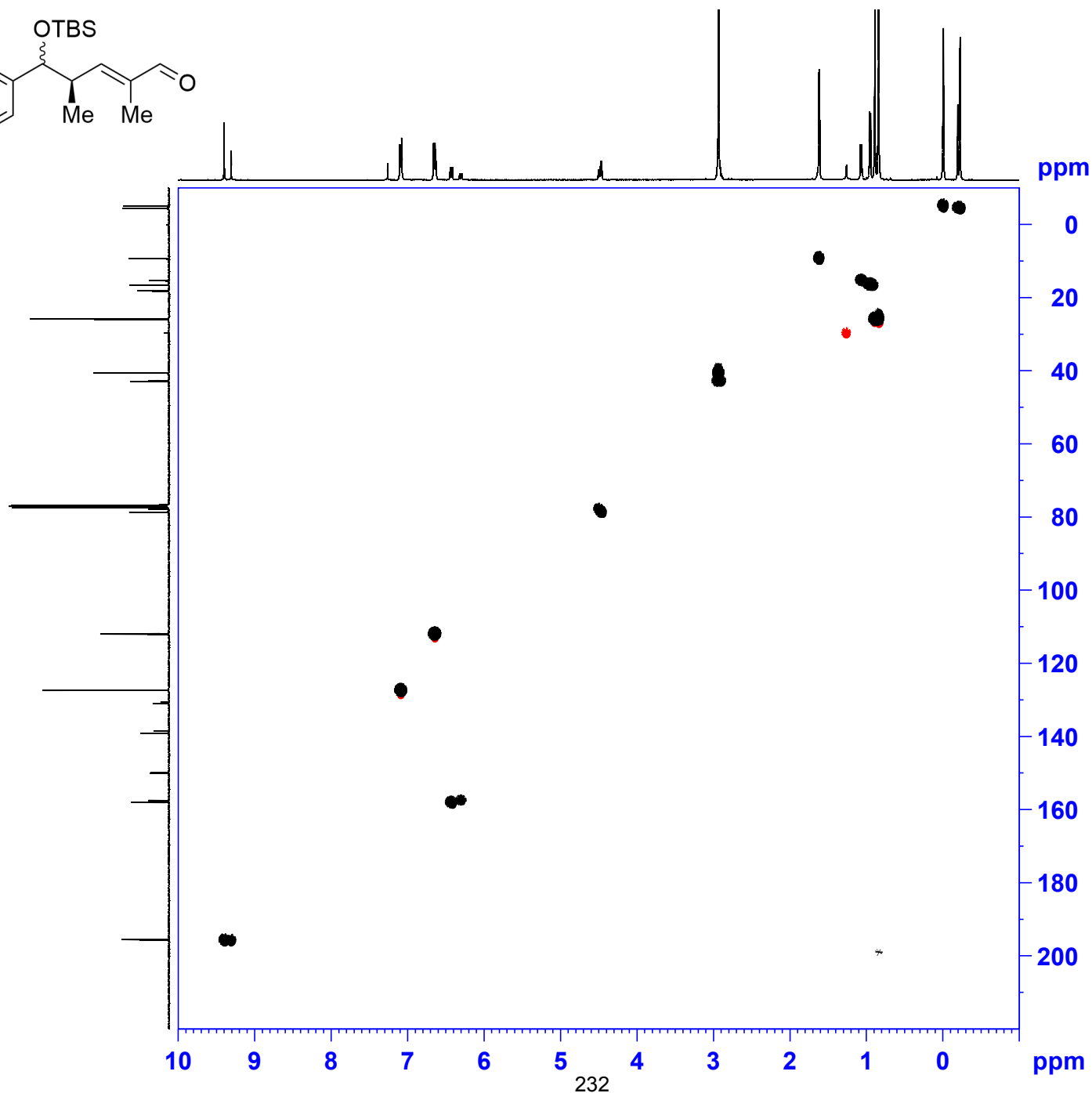
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 ¹H
 P1 14.88 usec
 P2 29.76 usec
 P28 0 usec
 PLW1 7.59999990 W

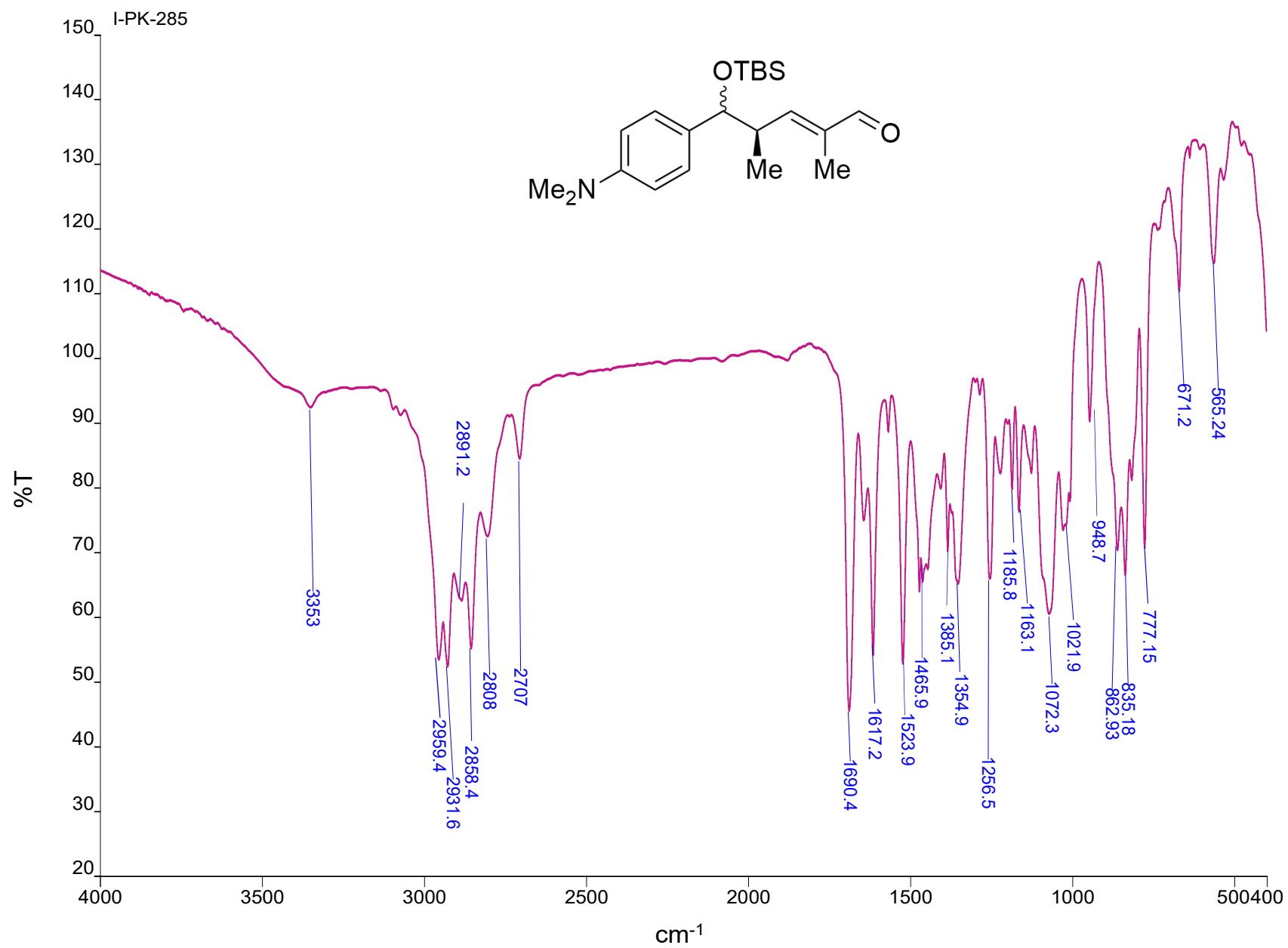
===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 ¹³C
 CPDPRG[2] garp4
 P3 10.00 usec
 P14 500.00 usec
 P31 1900.00 usec
 PCPD2 80.00 usec
 PLW0 0 W
 PLW2 44.46300125 W
 PLW12 0.69472998 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 6.79339981 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FnmODE Echo-Antiecho

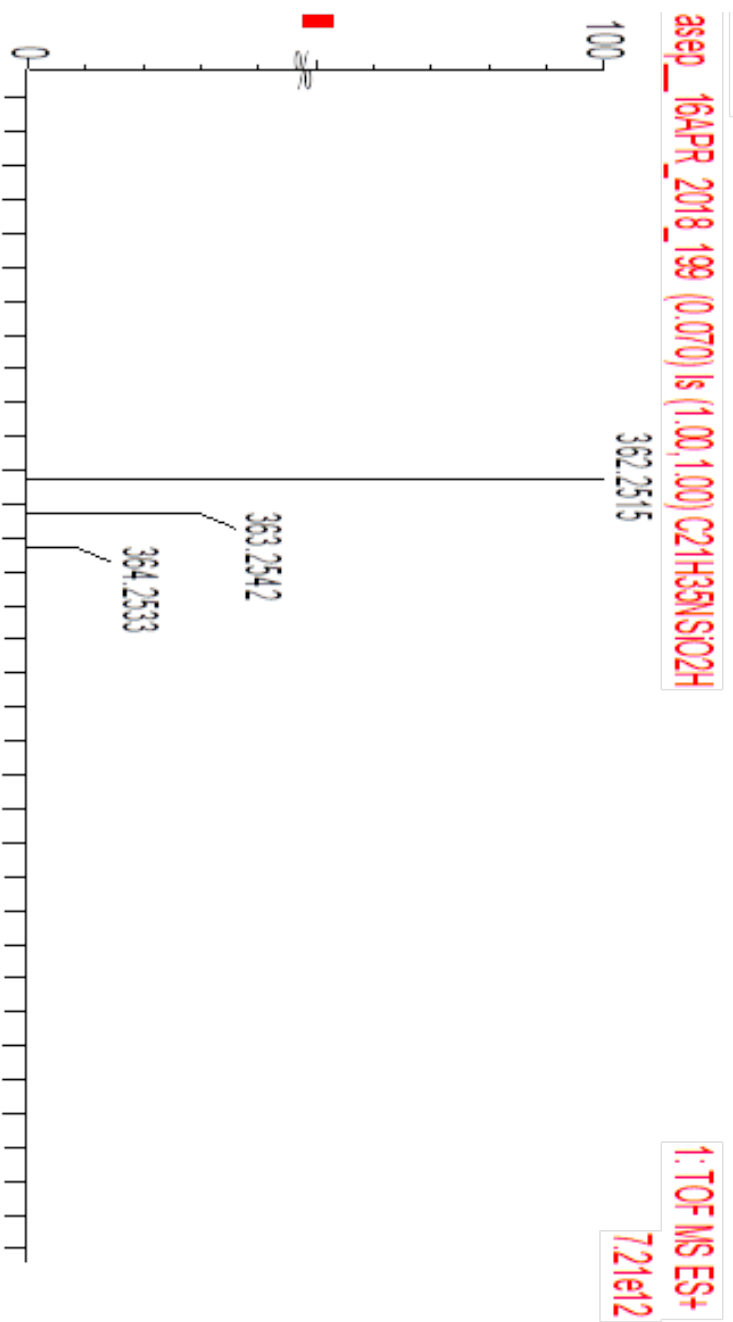
F2 - Processing parameters
 SI 1024
 SF 399.9000086 MHz



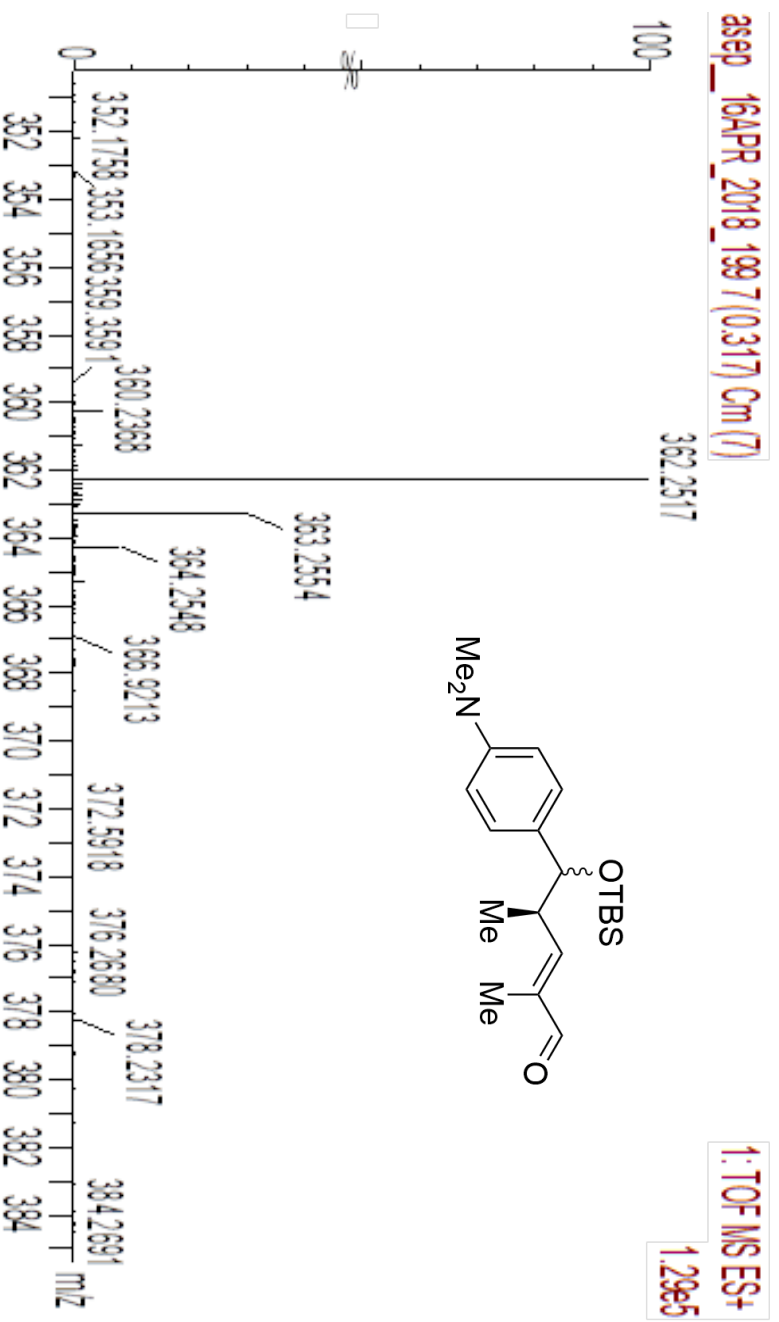


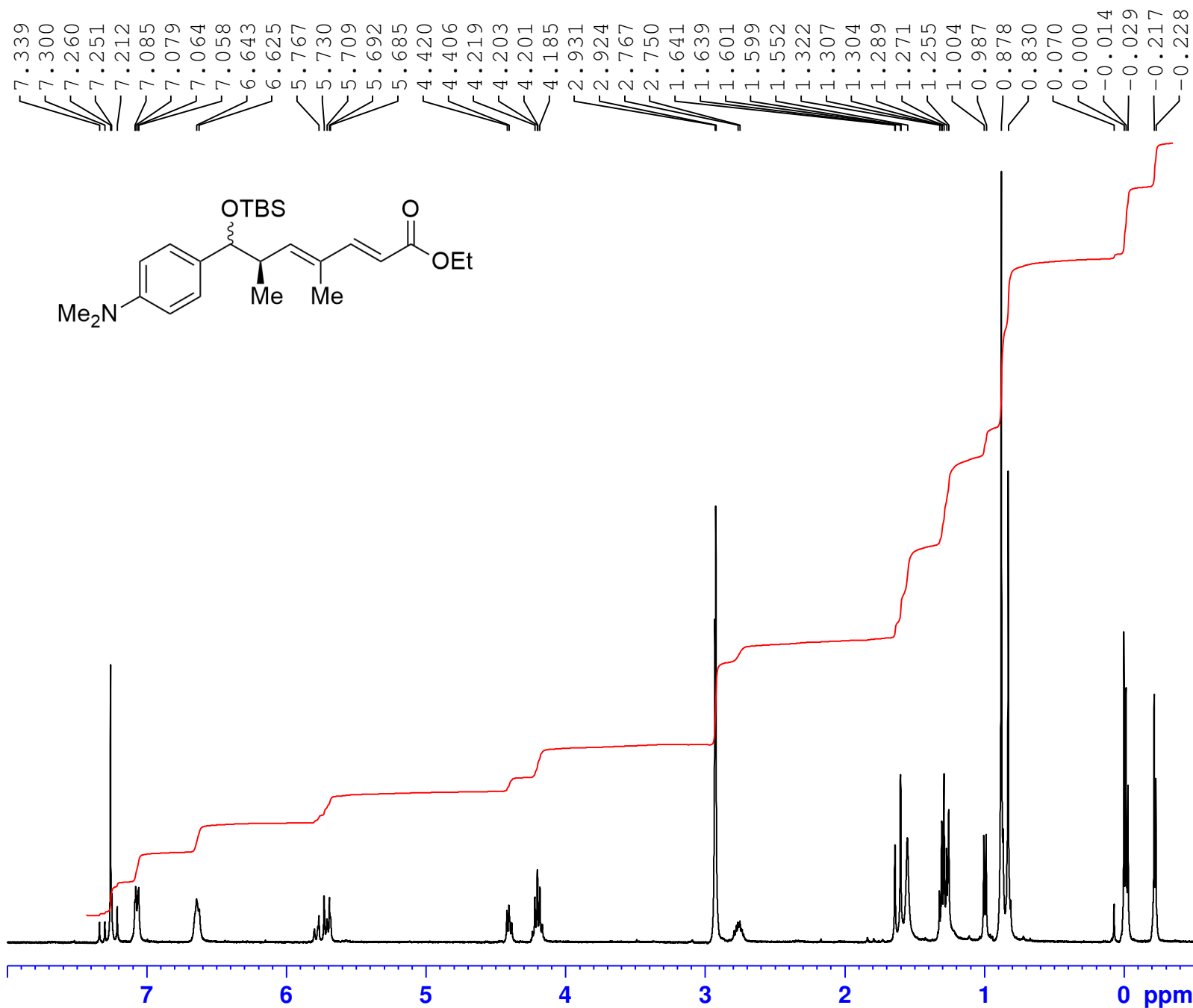
I-PK-82

18-05-2018



234



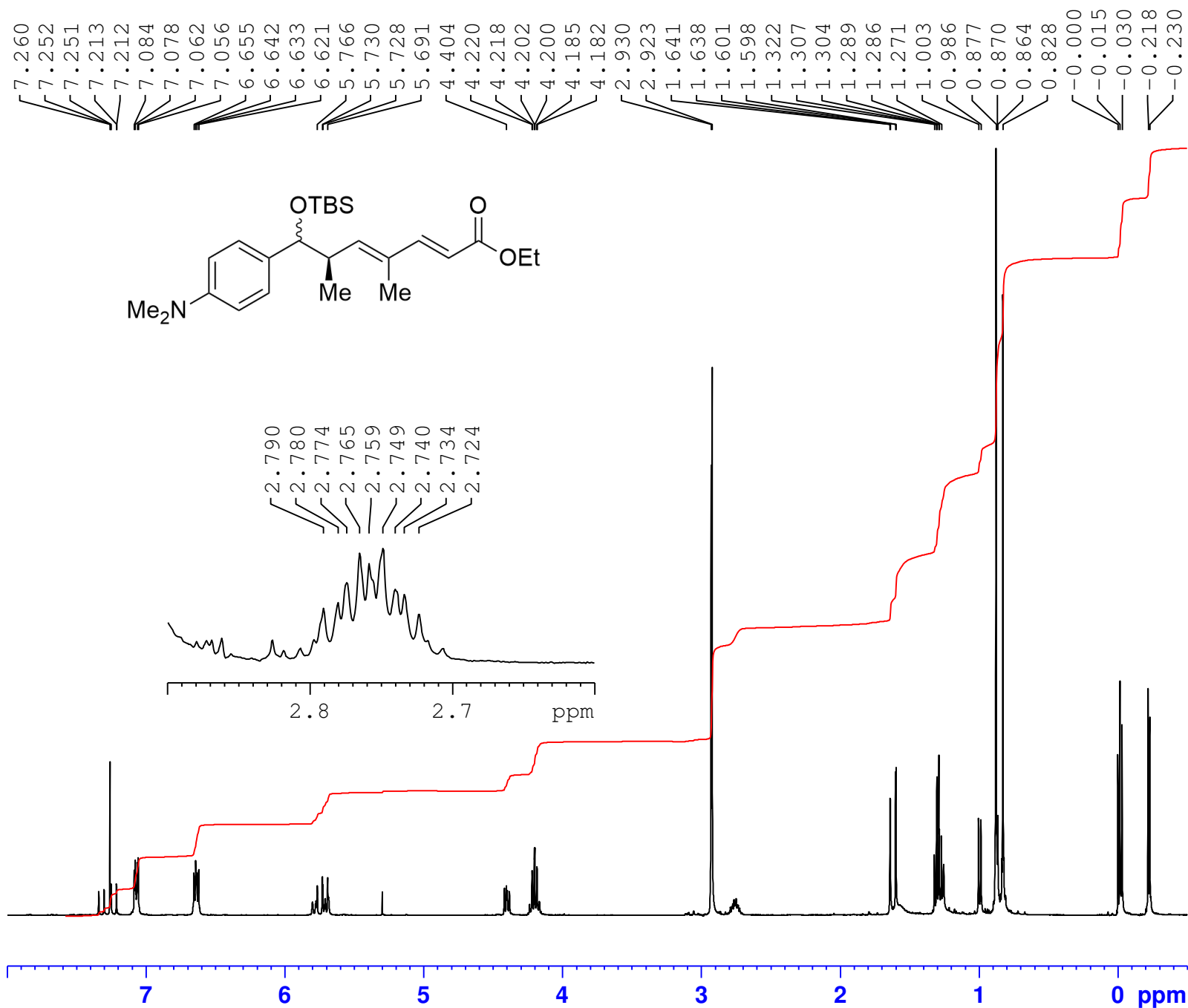


Current Data Parameters
 NAME I-PK-286
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190522
 Time 16.25
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 131072
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 12019.230 Hz
 FIDRES 0.091699 Hz
 AQ 5.4525952 sec
 RG 203
 DW 41.600 usec
 DE 9.85 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SF01 399.9024695 MHz
 NUC1 1H
 P1 14.88 usec
 PLW1 7.59999990 W

F2 - Processing parameters
 SI 131072
 SF 399.9000095 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME III-PK-151
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200318
 Time 21.20
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 80.6
 DW 60.800 usec
 DE 6.50 usec
 TE 297.3 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 399.9124696 MHz
 NUC1 1H
 P1 15.00 usec
 PLW1 17.29199982 W

F2 - Processing parameters
 SI 32768
 SF 399.9100096 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

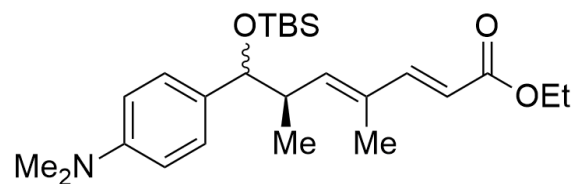


Current Data Parameters
NAME III-PK-151
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200318
Time 21.20
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 6.50 usec
TE 297.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9124696 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 399.9100096 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



—5.801

—5.776

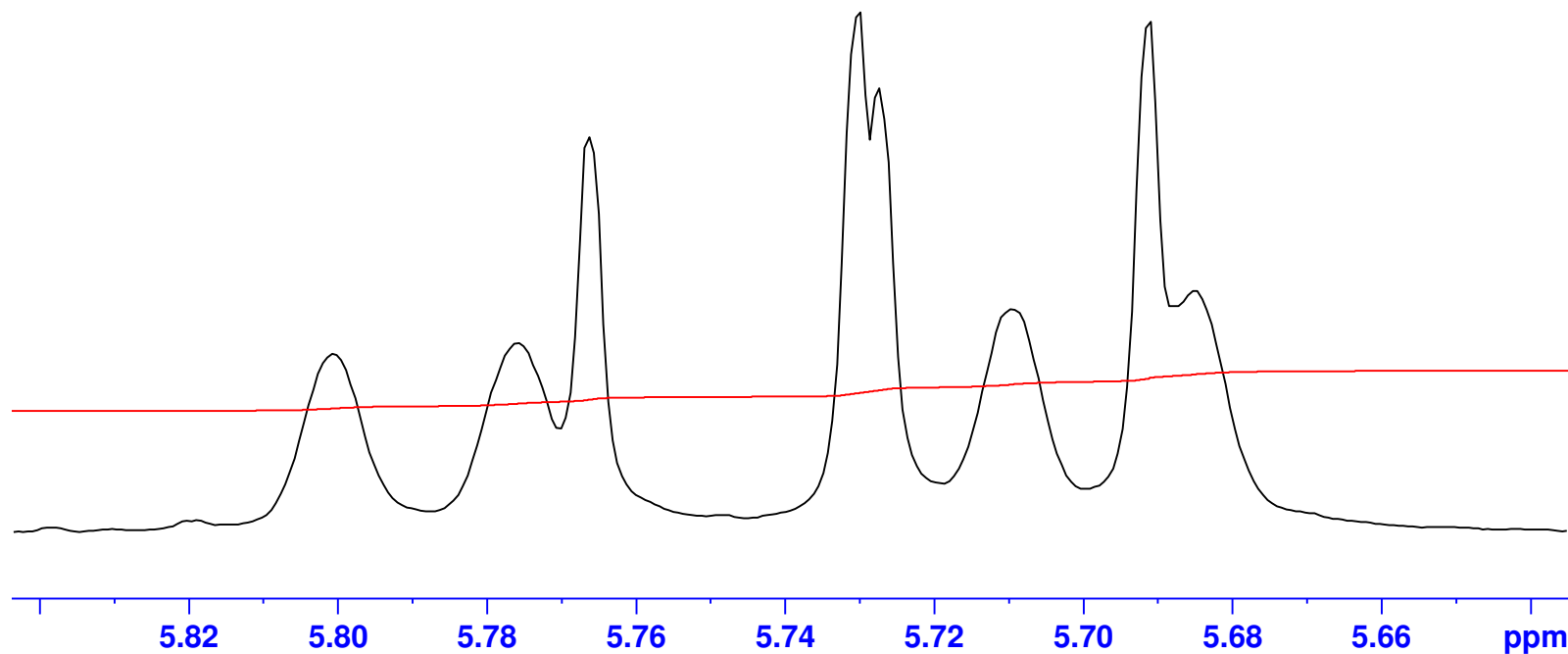
—5.766

—5.730
—5.728

—5.710

—5.691

—5.685



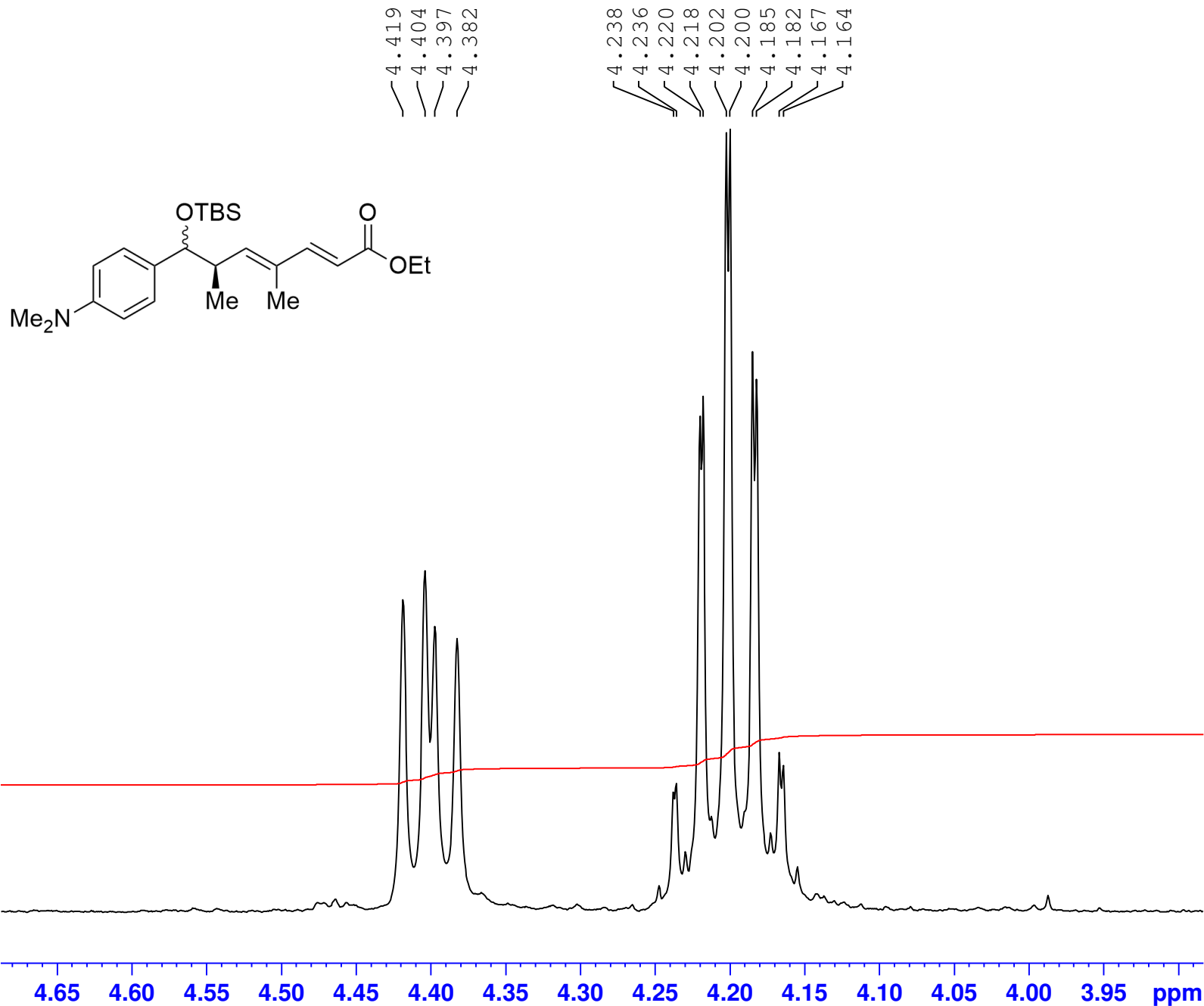


Current Data Parameters
NAME III-PK-151
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200318
Time 21.20
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 6.50 usec
TE 297.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9124696 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 399.9100096 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





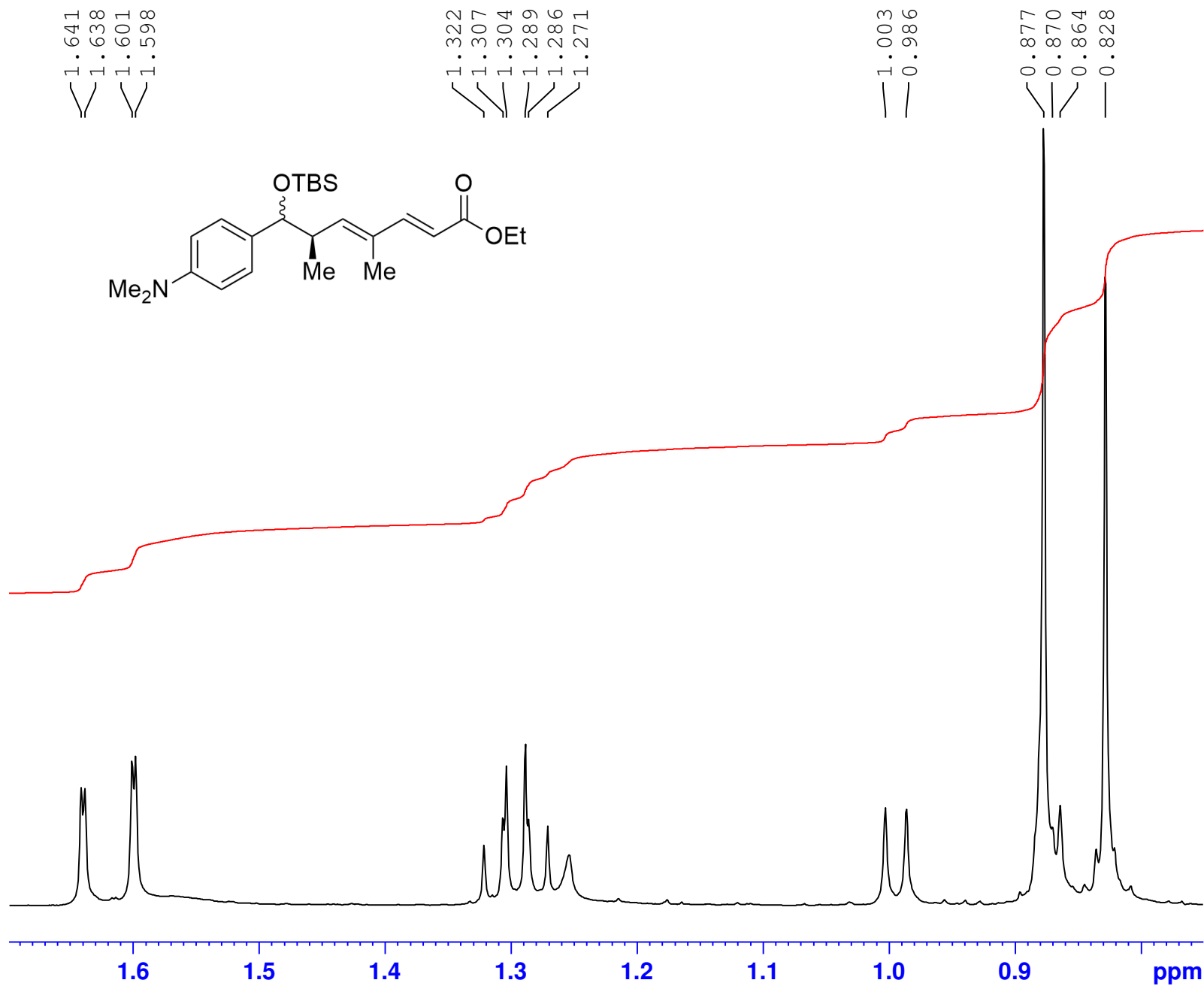
Current Data Parameters
NAME III-PK-151
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20200318
Time 21.20
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 6.50 usec
TE 297.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 399.9124696 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 399.9100096 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





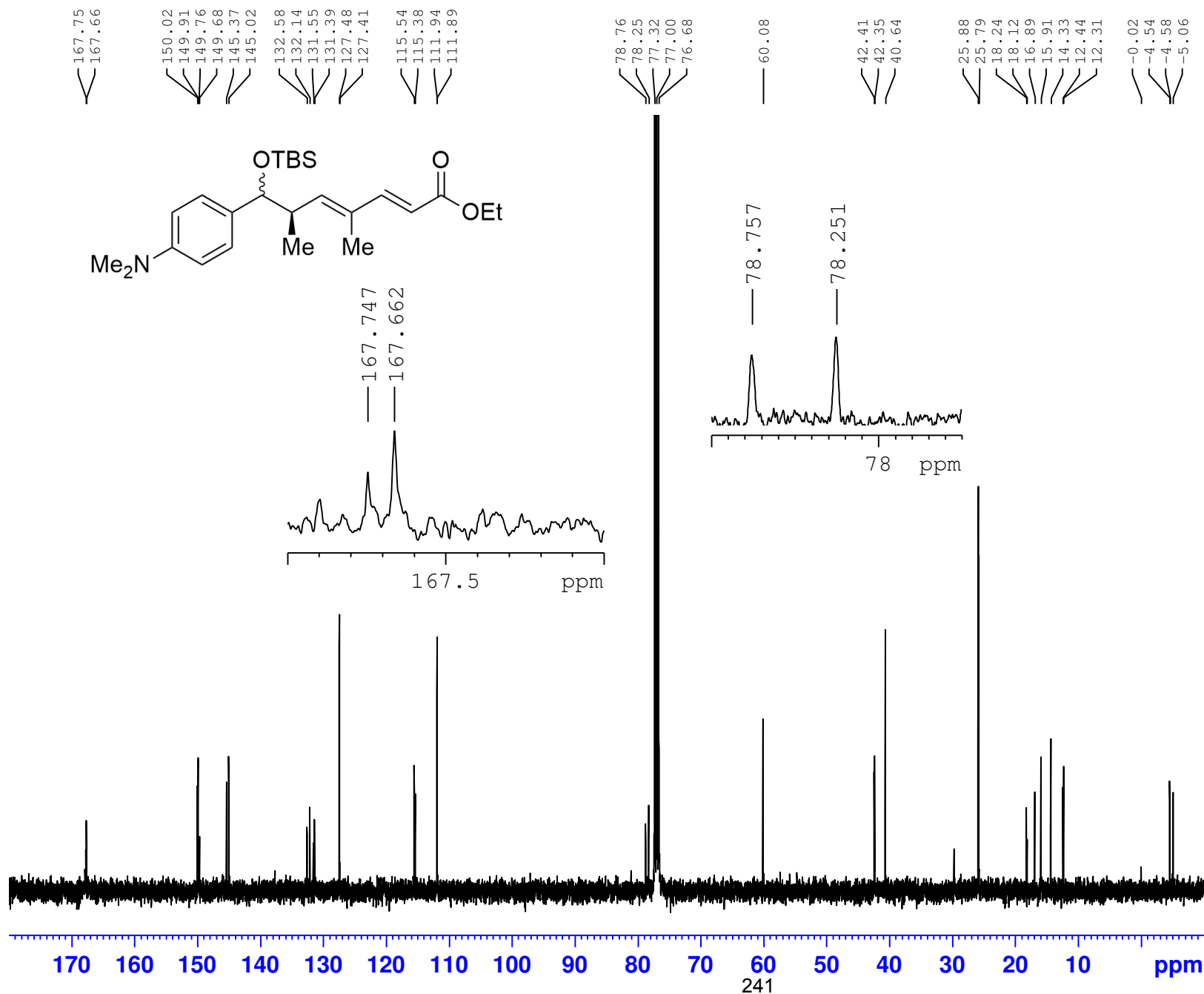
Current Data Parameters
 NAME III-PK-151
 EXPNO 11
 PROCNO 1

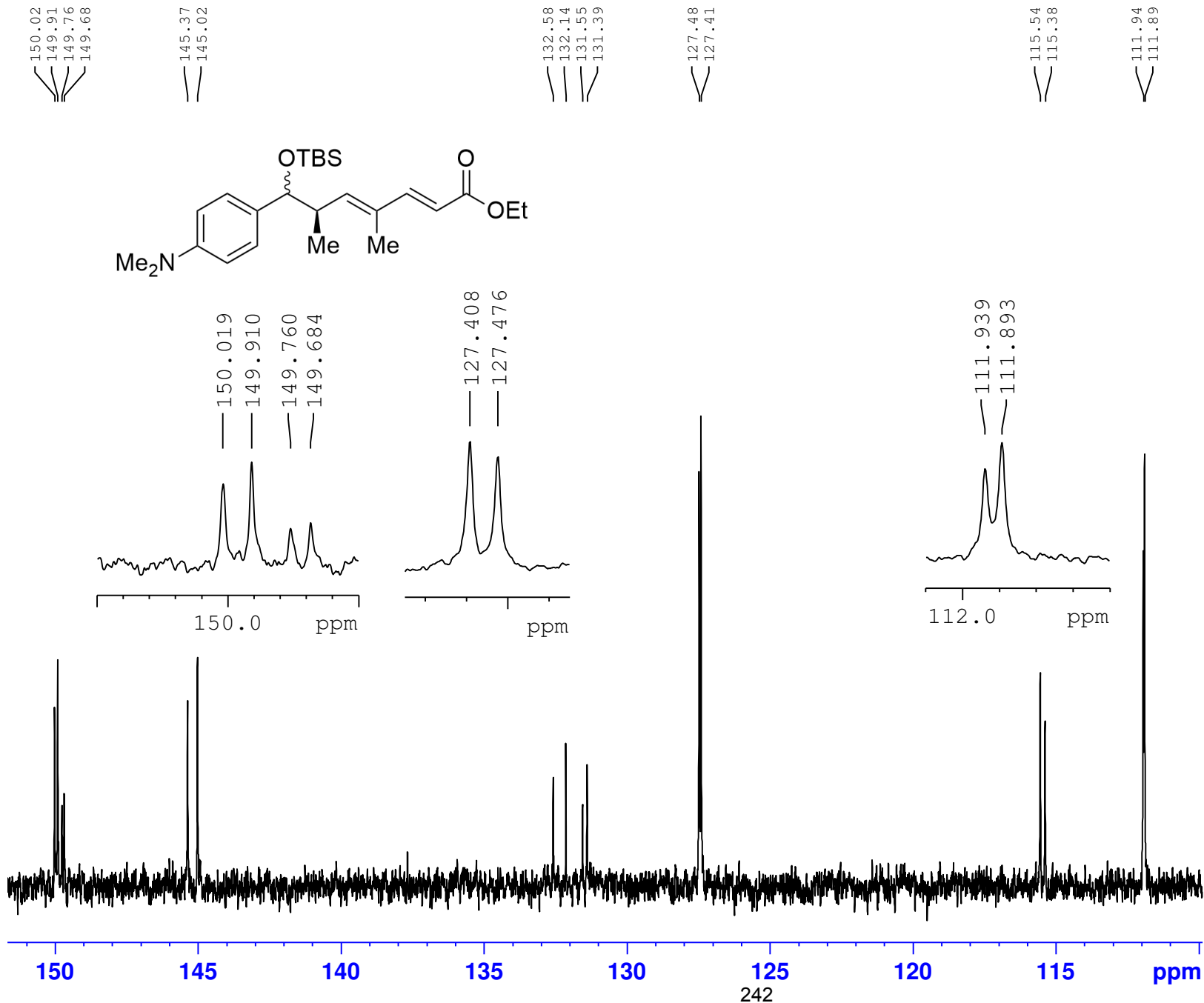
F2 - Acquisition Parameters
 Date_ 20200318
 Time 22.15
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 96150
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.250010 Hz
 AQ 1.9999200 sec
 RG 114
 DW 20.800 usec
 DE 6.50 usec
 TE 300.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5675047 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 96.68000031 W

===== CHANNEL f2 =====
 SFO2 399.9115996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 17.29199982 W
 PLW12 0.48032999 W
 PLW13 0.38907000 W

F2 - Processing parameters
 SI 131072
 SF 100.5574502 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





Current Data Parameters
 NAME III-PK-151
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20200318
 Time 22.15
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 96150
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.250010 Hz
 AQ 1.9999200 sec
 RG 114
 DW 20.800 usec
 DE 6.50 usec
 TE 300.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5675047 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 96.68000031 W

===== CHANNEL f2 =====
 SFO2 399.9115996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 17.29199982 W
 PLW12 0.48032999 W
 PLW13 0.38907000 W

F2 - Processing parameters
 SI 131072
 SF 100.5574502 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



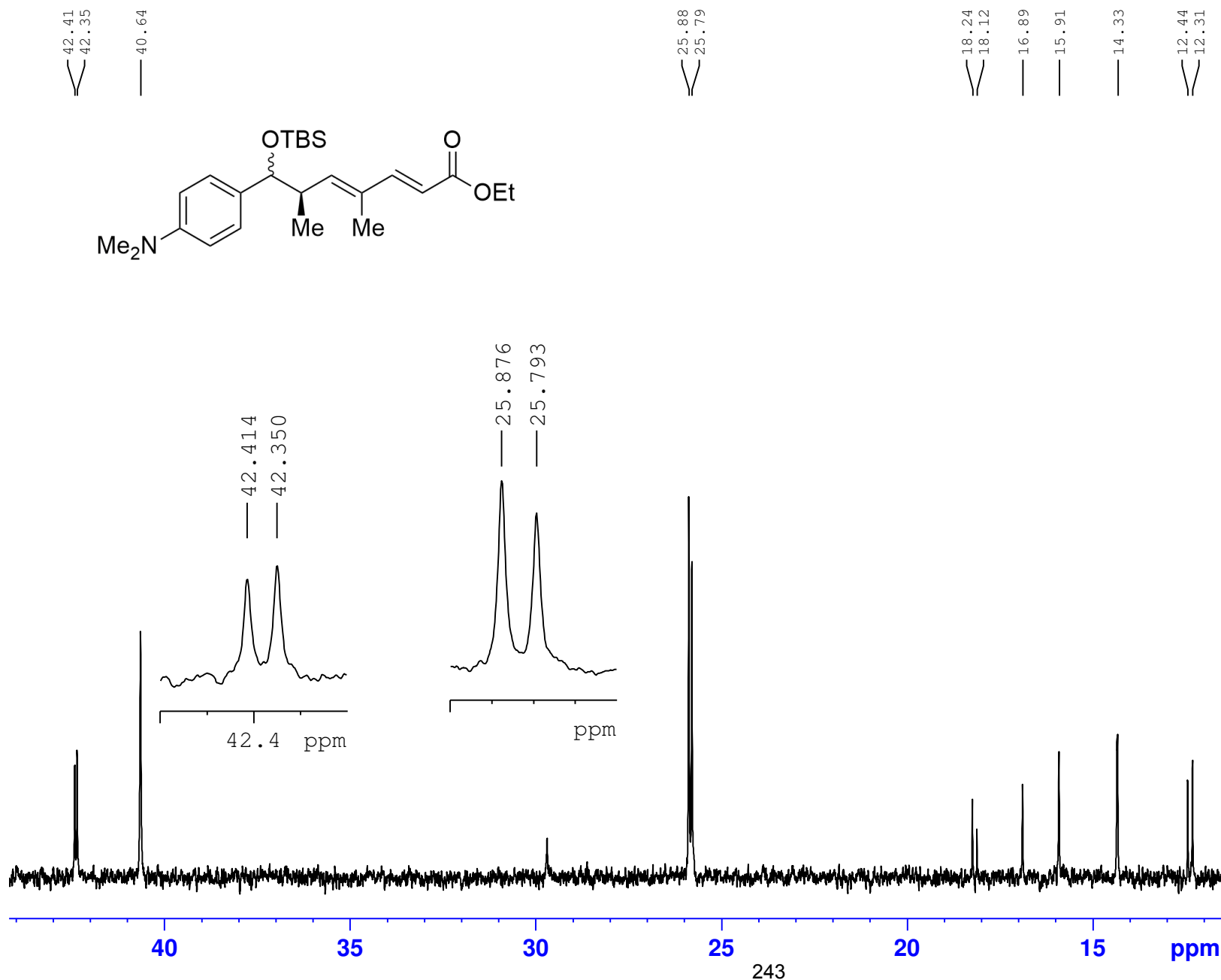
Current Data Parameters
 NAME III-PK-151
 EXPNO 11
 PROCNO 1

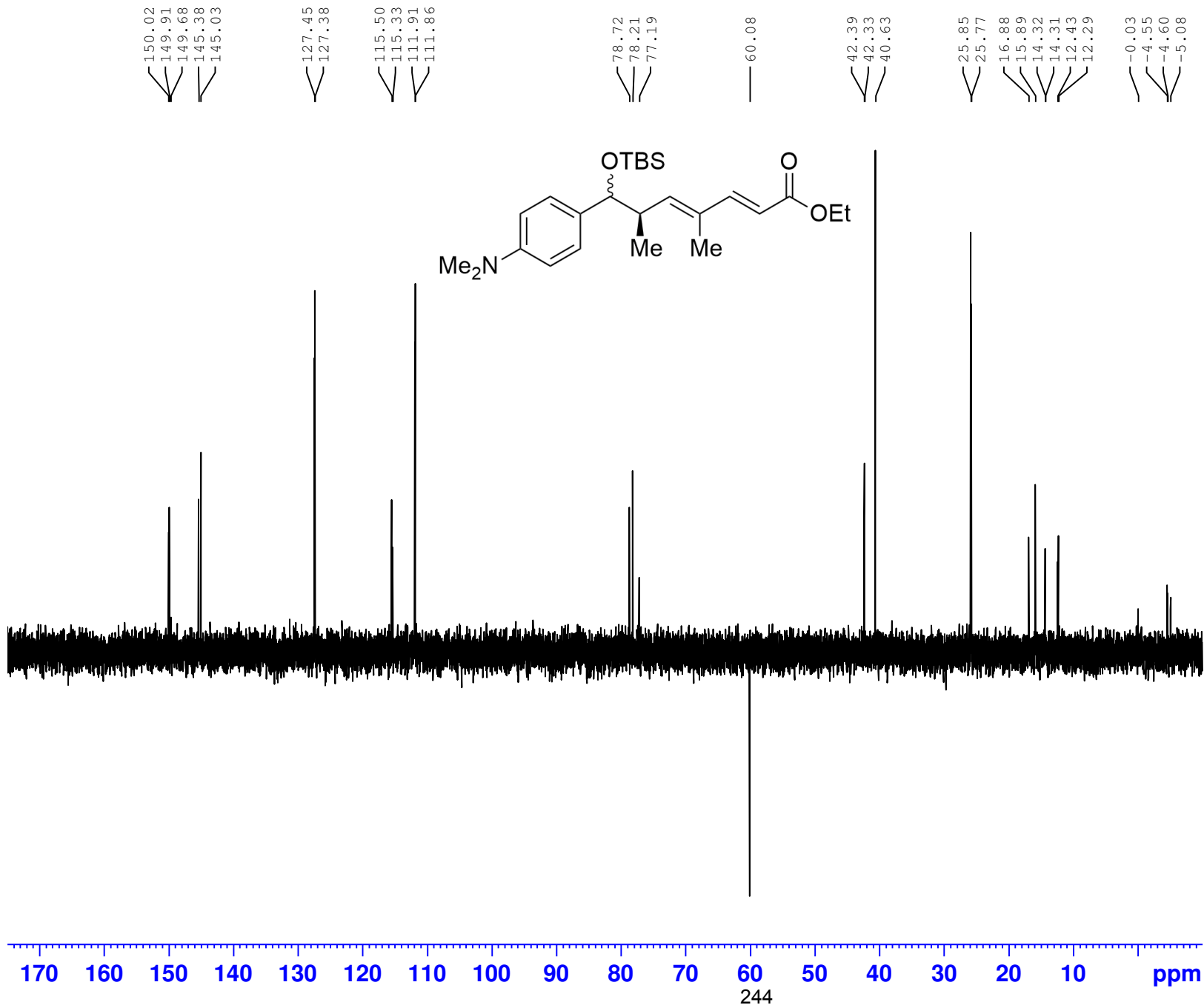
F2 - Acquisition Parameters
 Date_ 20200318
 Time 22.15
 INSTRUM AVIII_400
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 96150
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.250010 Hz
 AQ 1.9999200 sec
 RG 114
 DW 20.800 usec
 DE 6.50 usec
 TE 300.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5675047 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 96.68000031 W

===== CHANNEL f2 =====
 SFO2 399.9115996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 17.29199982 W
 PLW12 0.4803299 W
 PLW13 0.38907000 W

F2 - Processing parameters
 SI 131072
 SF 100.5574502 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





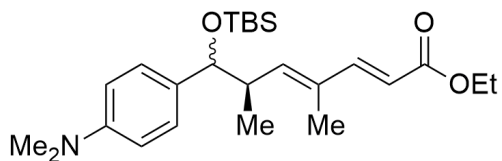
Current Data Parameters
 NAME III-PK-151
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201216
 Time 18.15
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35.b
 TD 119044
 SOLVENT CDCl3
 NS 500
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.300009 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

===== CHANNEL f1 =====
 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

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W

F2 - Processing parameters
 SI 131072
 SF 150.9028131 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME I-PK-286
 EXPNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190522
 Time 18.18
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 3578.244 Hz
 FIDRES 1.747190 Hz
 AQ 0.2861739 sec
 RG 2050
 DW 139.733 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.85786802 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00027940 sec

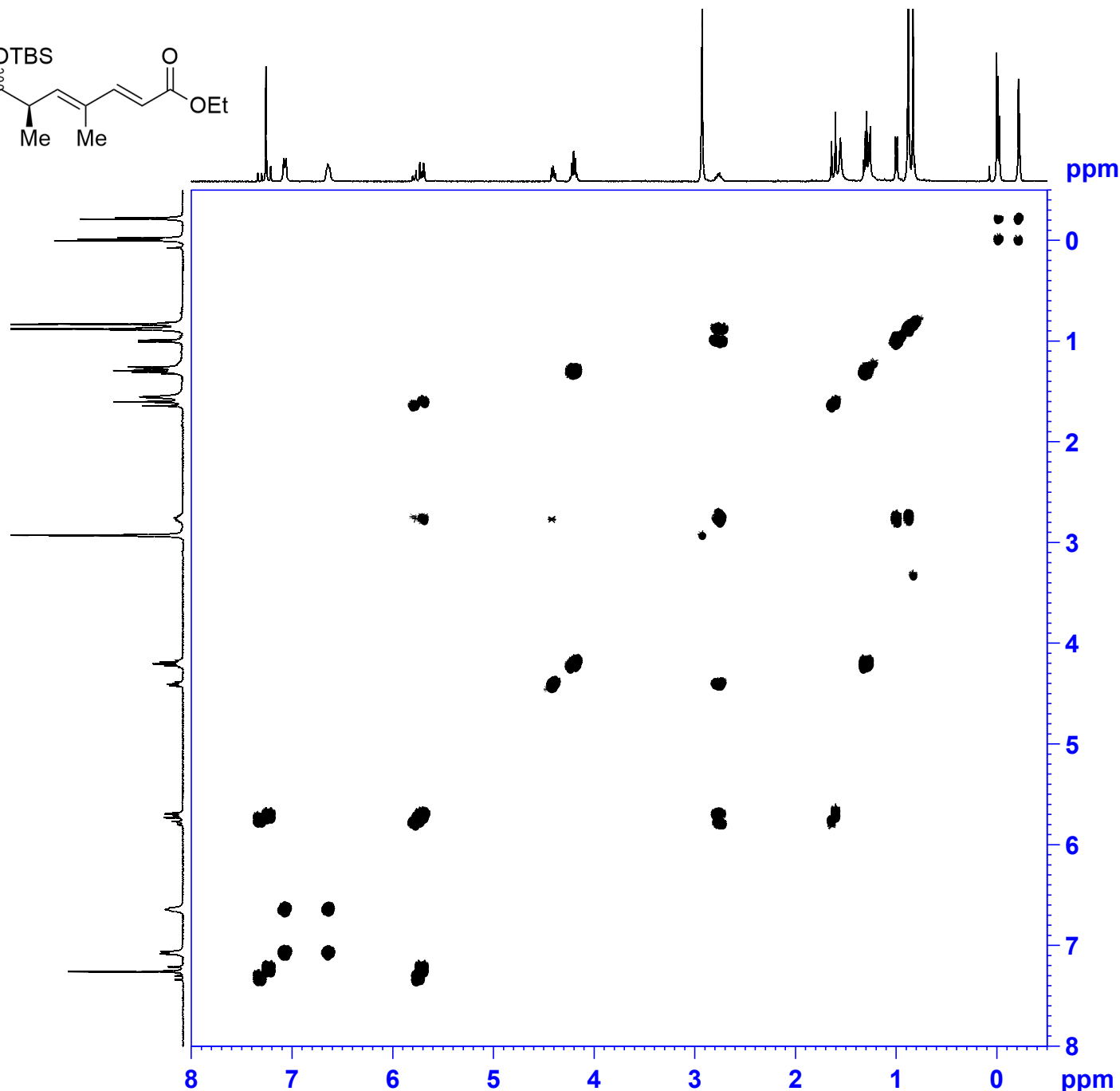
===== CHANNEL f1 =====
 SFO1 399.9013360 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

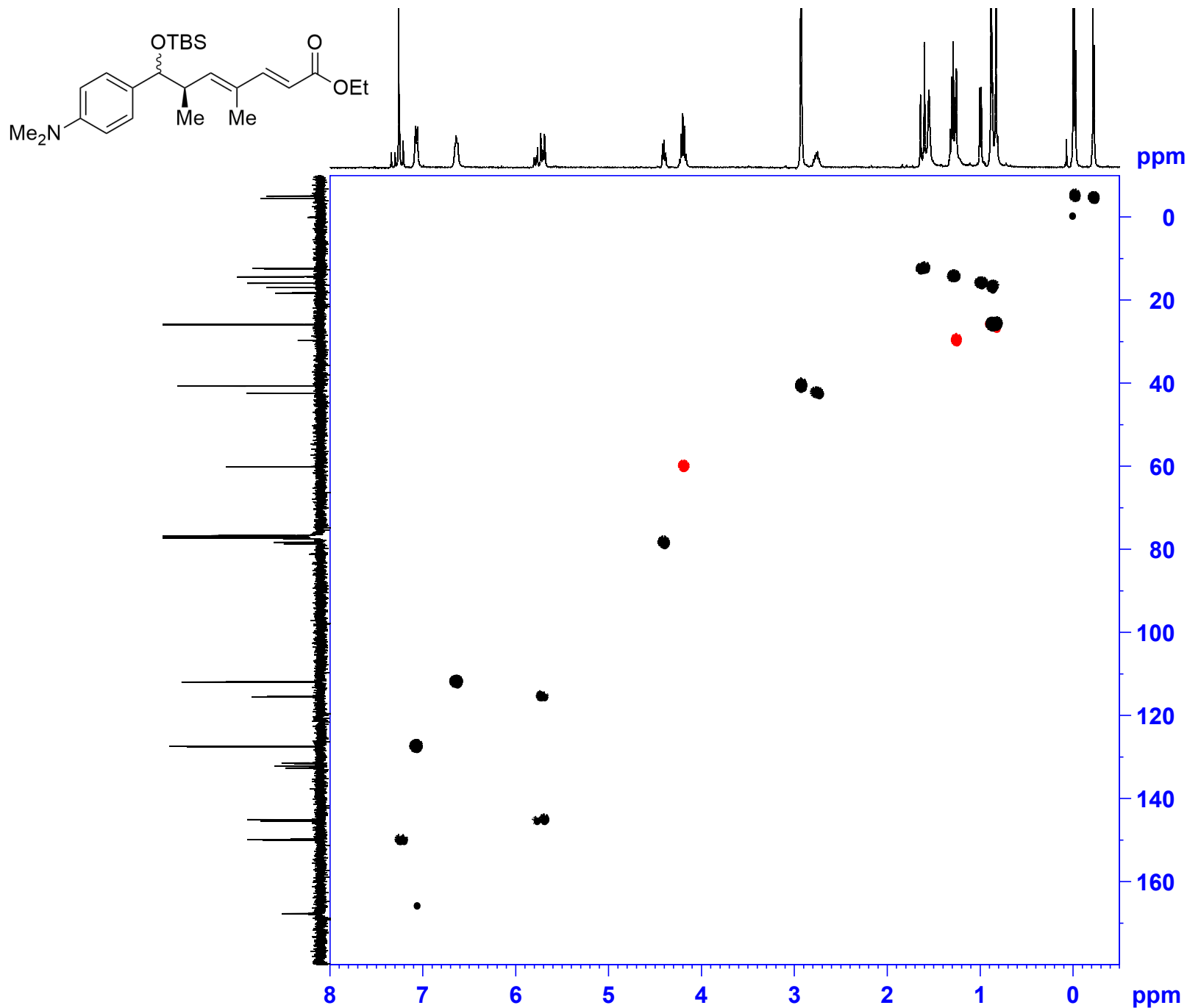
F1 - Acquisition parameters
 TD 256
 SFO1 399.9013 MHz
 FIDRES 27.961704 Hz
 SW 8.950 ppm
 F1MODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000097 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000097 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



245



Current Data Parameters
 NAME I-PK-286
 EXFNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190522
 Time 18.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgppsp.3
 TD 1024
 SOLVENT CDCl3
 NS 2
 DS 32
 SWH 4807.692 Hz
 FIDRES 4.695012 Hz
 AQ 0.1064960 sec
 RG 2050
 DW 104.000 usec
 DE 6.50 usec
 TE 300.1 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 0.00001910 sec

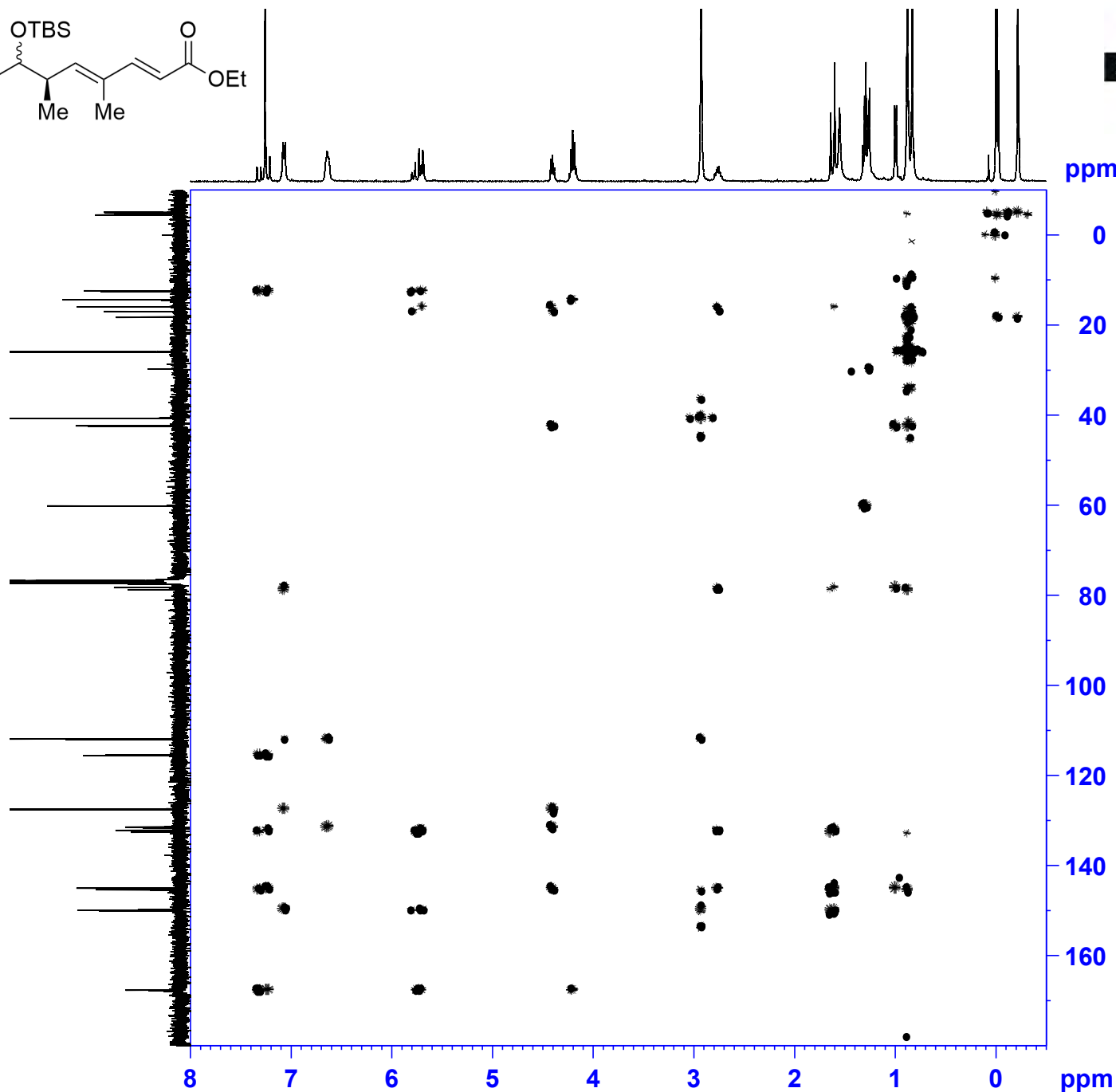
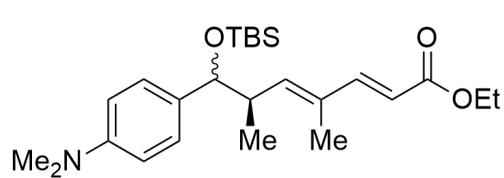
===== CHANNEL f1 =====
 SFO1 399.9018806 MHz
 NUC1 1H
 P1 14.88 usec
 P2 29.76 usec
 PLW1 7.59999990 W

===== CHANNEL f2 =====
 SFO2 100.5670016 MHz
 NUC2 13C
 CPDPRG2 garp4
 P3 10.00 usec
 P14 500.00 usec
 P31 1900.00 usec
 PCPD2 80.00 usec
 PLW0 0 W
 PLW2 44.46300125 W
 PLW12 0.69472998 W
 SPNAM[3] Crp60,0.5,20.1
 SPOAL3 0.500
 SPOFFS3 0 Hz
 SPW3 6.79339981 W
 SPNAM[18] Crp60_xfilt.2
 SPOAL18 0.500
 SPOFFS18 0 Hz
 SPW18 1.62779999 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 100.567 MHz
 FIDRES 204.515701 Hz
 SW 260.304 ppm
 FnmODE Echo-Antiecho

F2 - Processing parameters
 SI 1024
 SF 399.9000097 MHz
 WDW OSINE



Current Data Parameters
NAME III-PK-151
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201216
Time 18.16
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hmbcetgpl3nd
TD 4096
SOLVENT CDCl3
NS 4
DS 16
SWH 7812.500 Hz
FIDRES 1.907349 Hz
AQ 0.2621440 sec
RG 186.92
DW 64.000 usec
DE 6.50 usec
TE 299.9 K
CNST6 120.0000000
CNST7 175.0000000
CNST13 8.0000000
CNST30 0.5981122
D0 0.0000300 sec
D1 1.5000000 sec
D6 0.0625000 sec
D16 0.0020000 sec
IN0 0.0001380 sec

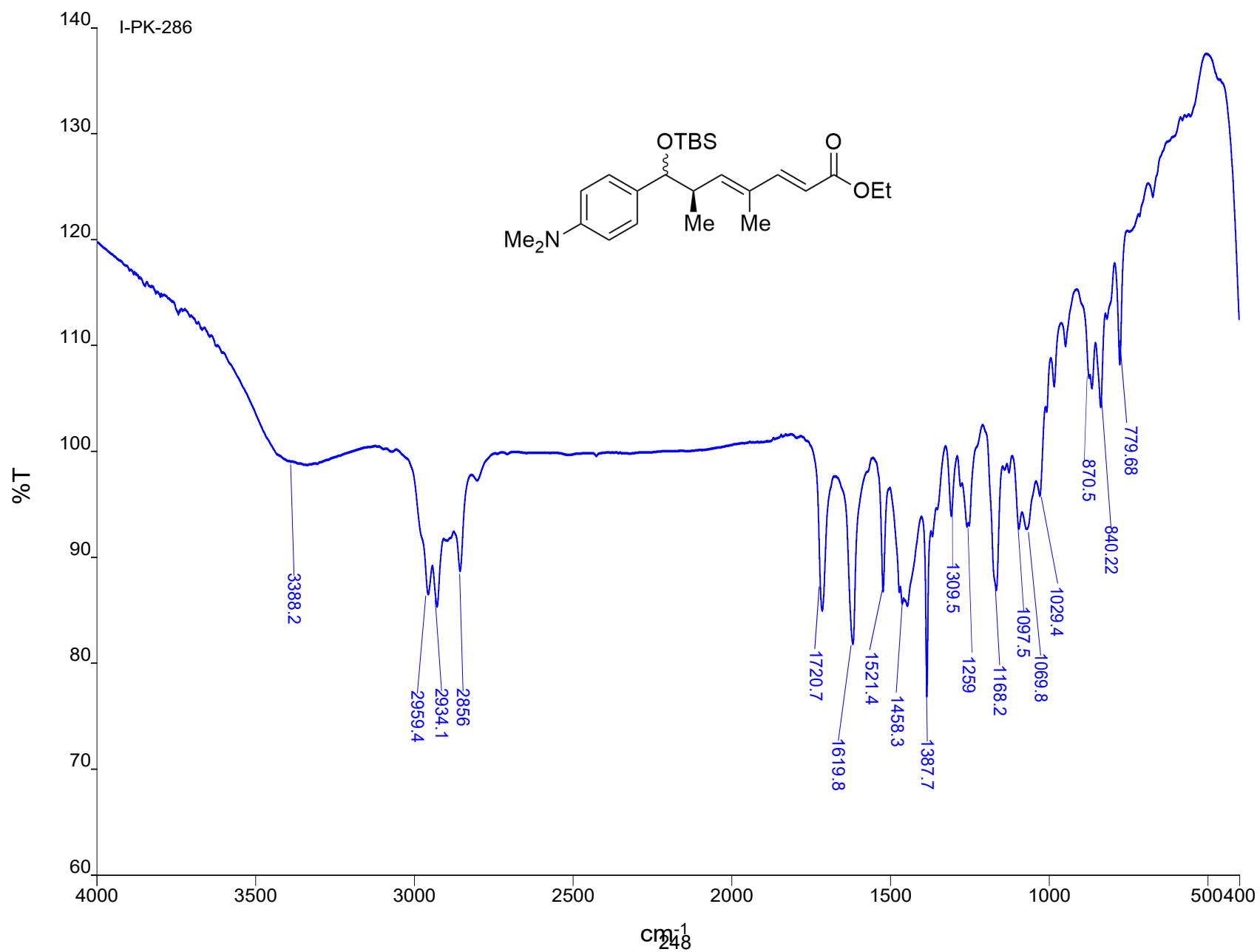
===== CHANNEL f1 =====
SF01 600.1330006 MHz
NUC1 ^1H
P1 10.00 usec
P2 20.00 usec
PLW1 26.60000038 W

===== CHANNEL f2 =====
SF02 150.9194058 MHz
NUC2 ^{13}C
P3 11.80 usec
P24 2000.00 usec
PLW2 85.00000000 W
SPNAM[7] Crp60comp.4
SFOAL7 0.500
SPOFFS7 0 Hz
SPW7 18.08300018 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[3] SMSQ10.100
GPNAM[4] SMSQ10.100
GPNAM[5] SMSQ10.100
GPNAM[6] SMSQ10.100
GPZ1 80.00 %
GPZ3 14.00 %
GPZ4 -8.00 %
GPZ5 -4.00 %
GPZ6 -2.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 512
SF01 150.9194 MHz
FIDRES 141.530792 Hz
SW 240.074 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 4096
SF 600.1300111 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0
PC 1.40



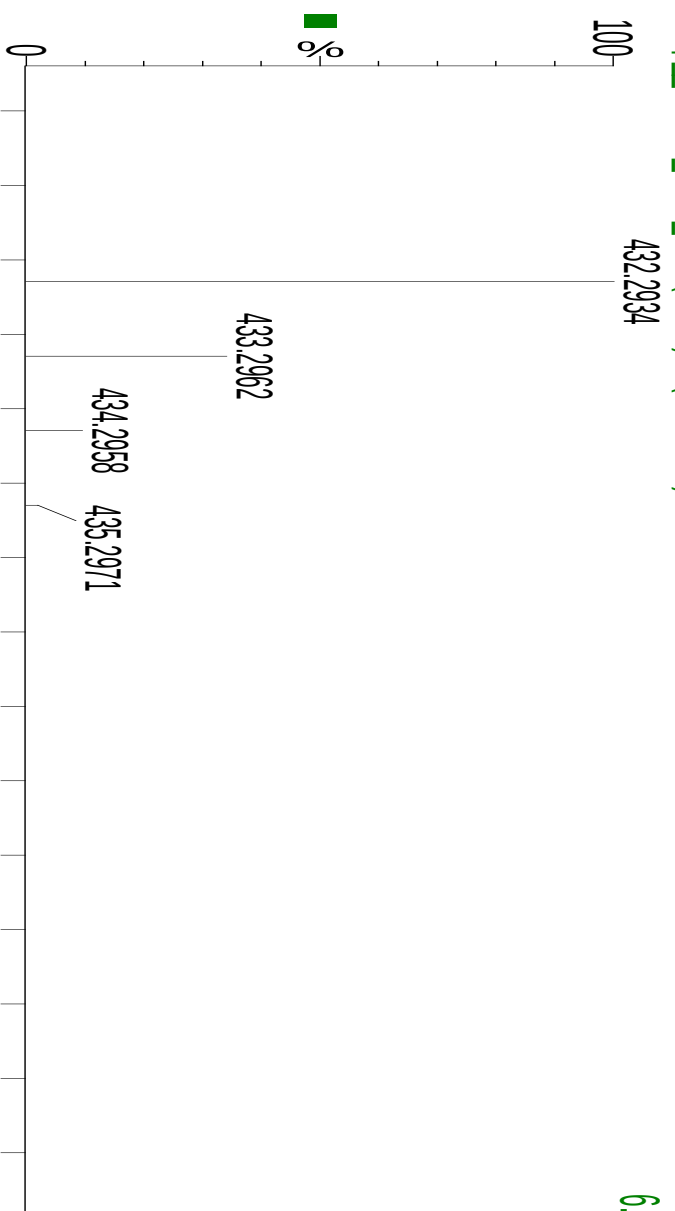
IPK-73

01-05-2018

asep_16APR_2018_118 (0.075) Is (1.00,1.00) C₂₅H₄₁NO₃H

1: TOF MS ES+

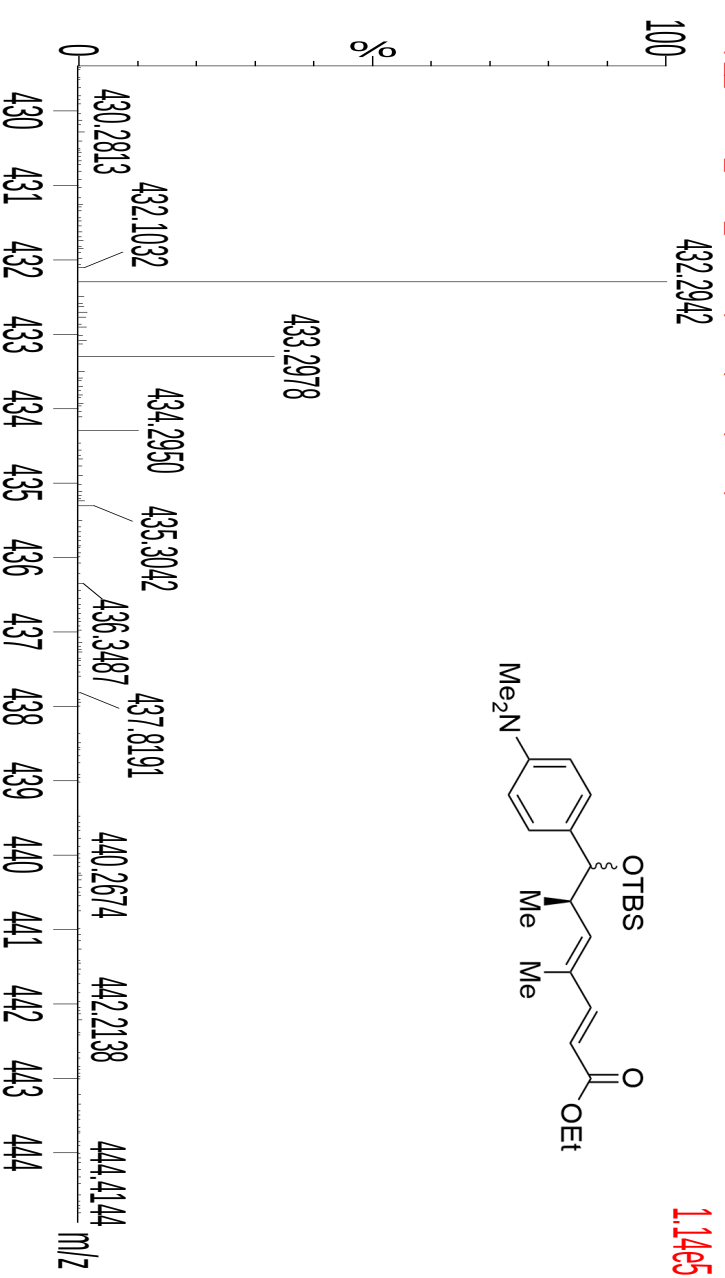
6.88e12



asep_16APR_2018_118 10 (0.467) Cm (10.12)

1: TOF MS ES+

1.14e5



— 7.429
— 7.390
— 7.336
— 7.297
— 7.260

7.092
7.084
7.069
7.063

6.669
6.658
6.650
6.637

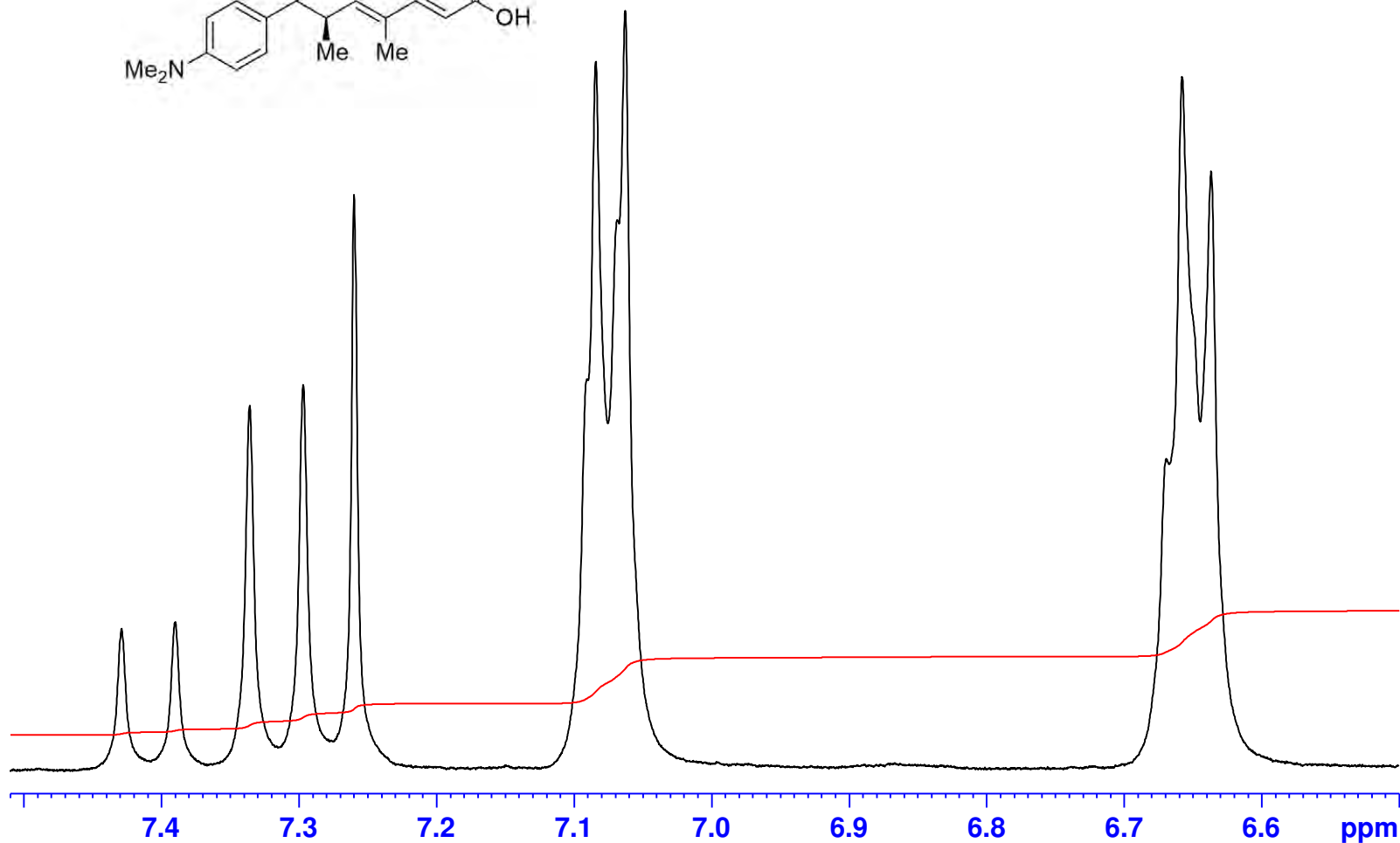
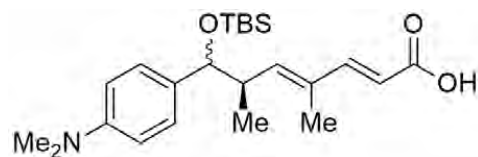


Current Data Parameters
NAME I-PK-294
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190527
Time 19.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 64
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



— 5.870
— 5.846

— 5.772
— 5.738
— 5.699

— 4.433
— 4.418
— 4.410
— 4.395



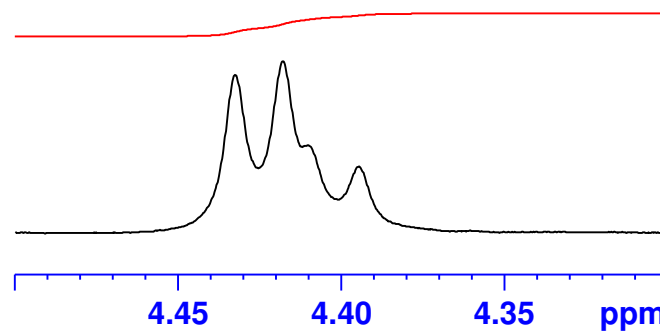
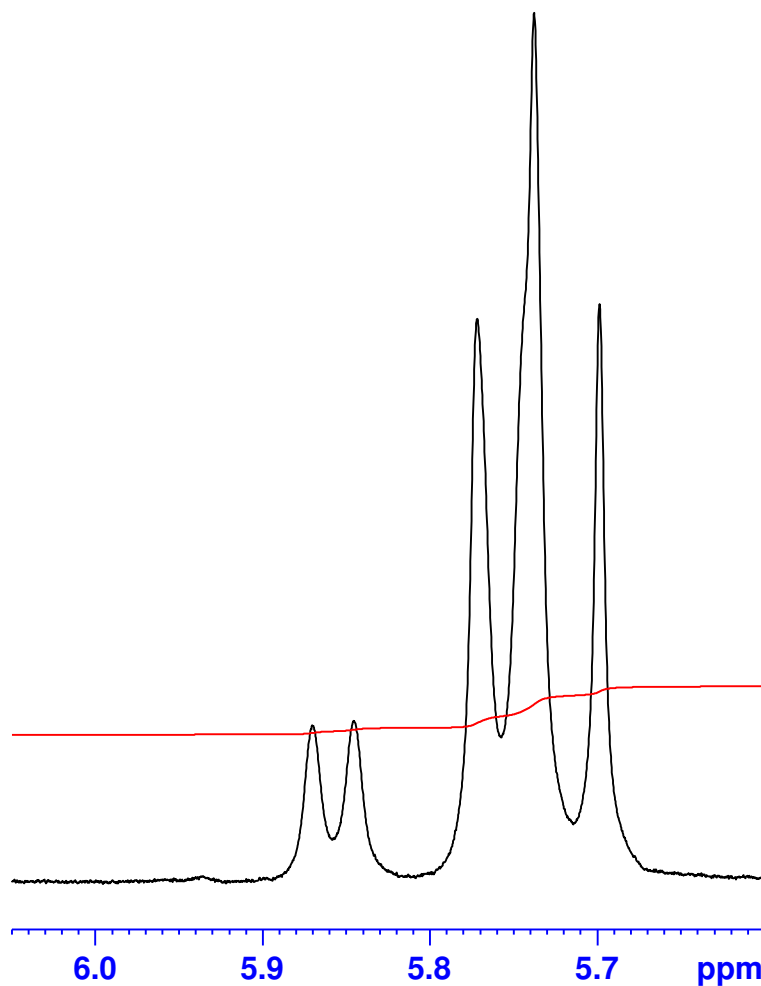
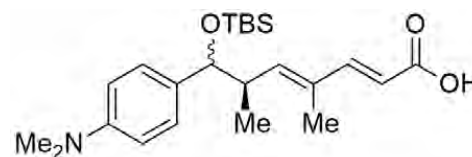
Current Data Parameters
NAME I-PK-294
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20190527
Time 19.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 64
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



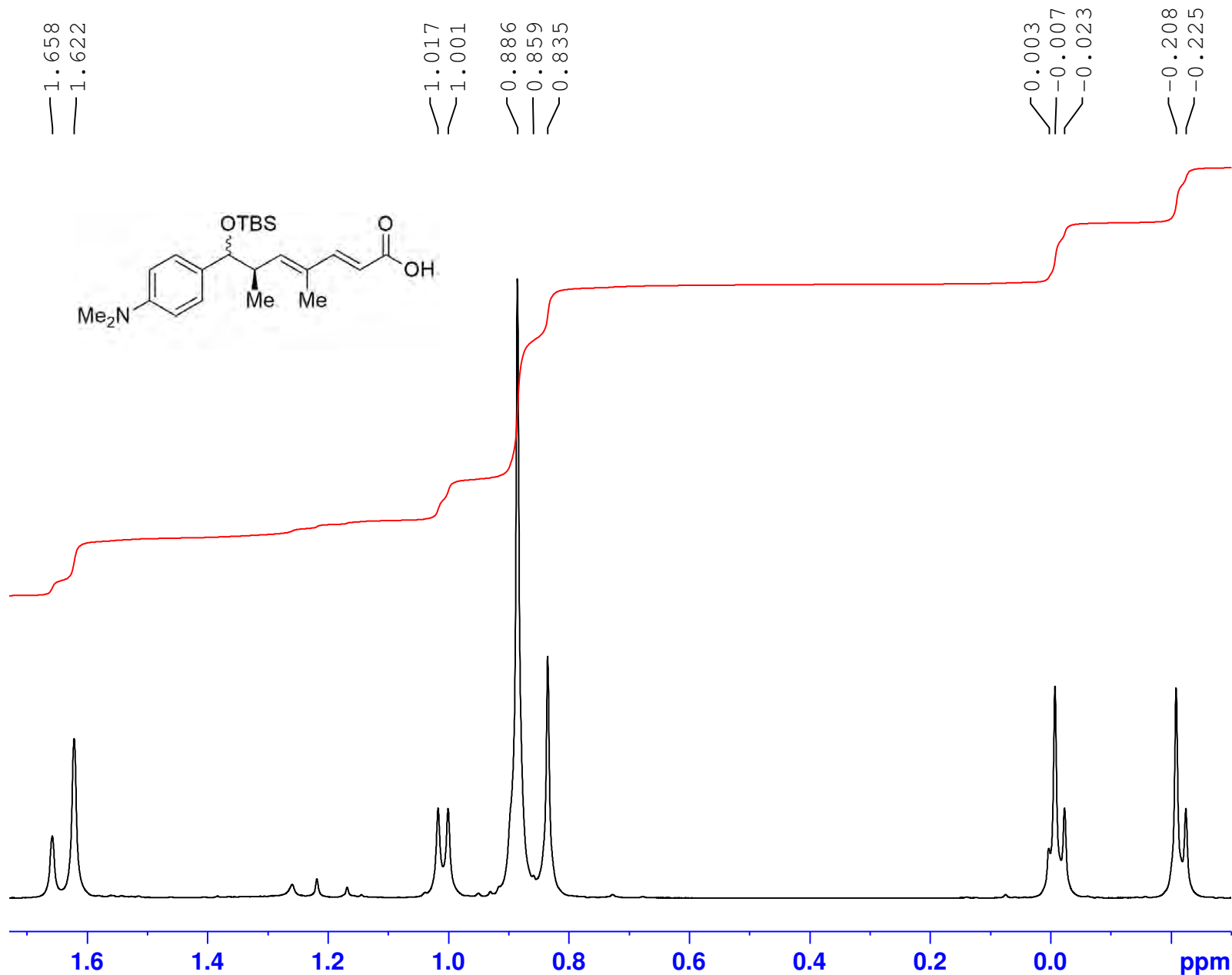


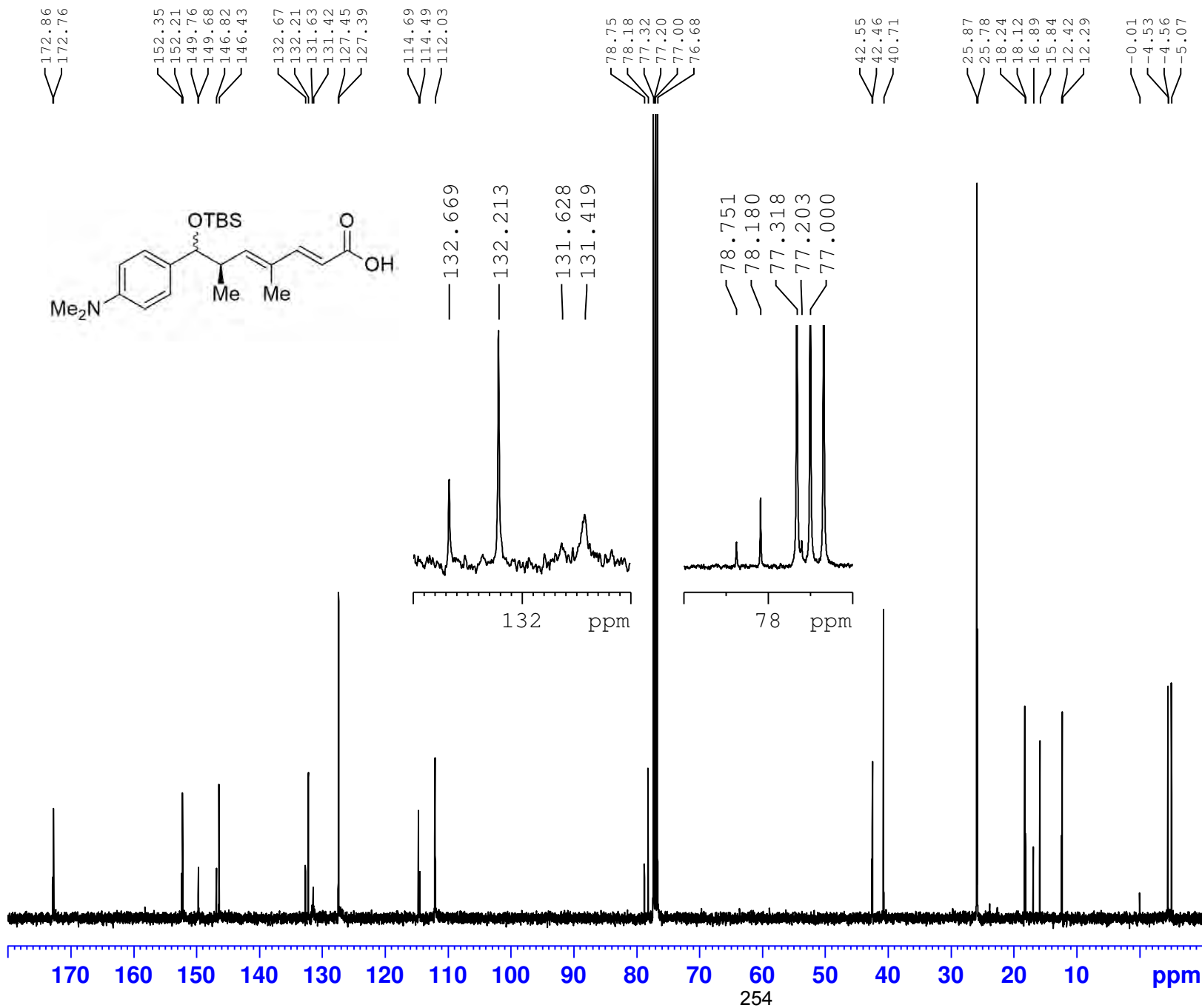
Current Data Parameters
NAME I-PK-294
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190527
Time 19.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 131072
SOLVENT CDCl3
NS 16
DS 0
SWH 12019.230 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 64
DW 41.600 usec
DE 9.85 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 399.9024695 MHz
NUC1 1H
P1 14.88 usec
PLW1 7.59999990 W

F2 - Processing parameters
SI 131072
SF 399.9000096 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





```
Current Data Parameters
NAME          I-PK-294
EXPNO          11
PROCNO         1
```

```

F2 - Acquisition Parameters
Date_                20190528
Time                 4.02
INSTRUM              spect
PROBHD       5 mm PABBO BB/
PULPROG              zgpg30
TD                   119044
SOLVENT              CDC13
NS                   1200
DS                    4
SWH                  25000.000 Hz
FIDRES               0.210006 Hz
AQ                   2.3808801 sec
RG                   2050
DW                   20.000 usec
DE                   9.12 usec
TE                   300.0 K
D1                   1.00000000 sec
D11                  0.03000000 sec
TD0                  1

```

```
===== CHANNEL f1 =====
SFO1      100.5659947 MHz
NUC1              13C
P1              10.00 usec
PLW1      44.46300125 W
```

```
===== CHANNEL f2 =====
SF02      399.9015996 MHz
NUC2              1H
CPDPRG[2]      waltz64
PCPD2              90.00 usec
PLW2      7.599999990 W
PLW12     0.20774999 W
PLW13     0.16827001 W
```

F2 - Processing parameters	
SI	131072
SF	100.5549357 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

172.86
172.76

152.35
152.21
149.76
149.68
146.82
146.43

132.67
132.21
131.63
131.42
127.45
127.39

114.69
114.49
112.03



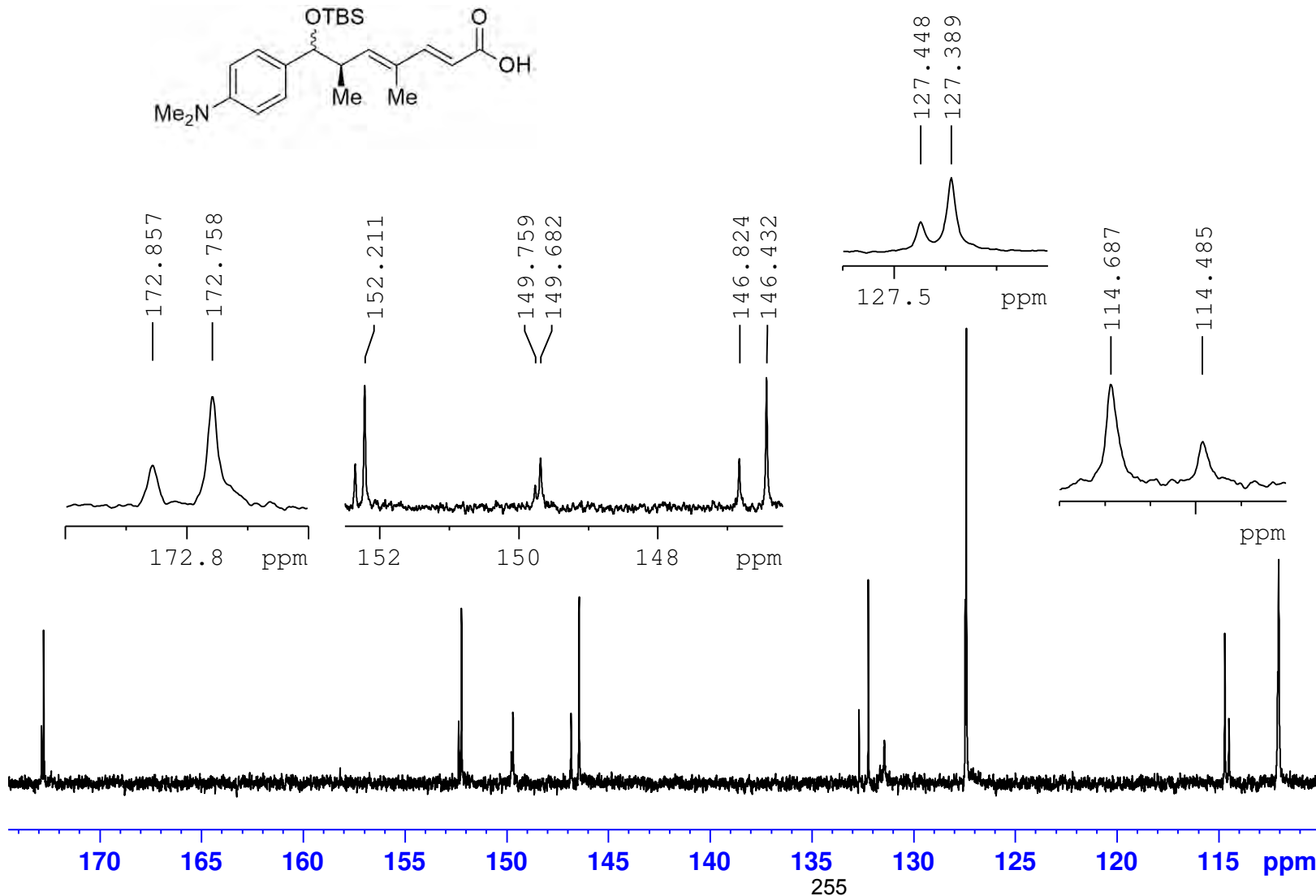
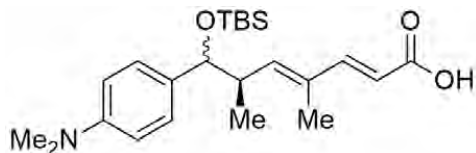
Current Data Parameters
NAME I-PK-294
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190528
Time 4.02
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT CDC13
NS 1200
DS 4
SWH 25000.000 Hz
FIDRES 0.210006 Hz
AQ 2.3808801 sec
RG 2050
DW 20.000 usec
DE 9.12 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 100.5659947 MHz
NUC1 13C
P1 10.00 usec
PLW1 44.46300125 W

===== CHANNEL f2 =====
SF02 399.9015996 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 90.00 usec
PLW2 7.59999990 W
PLW12 0.20774999 W
PLW13 0.16827001 W

F2 - Processing parameters
SI 131072
SF 100.5549357 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





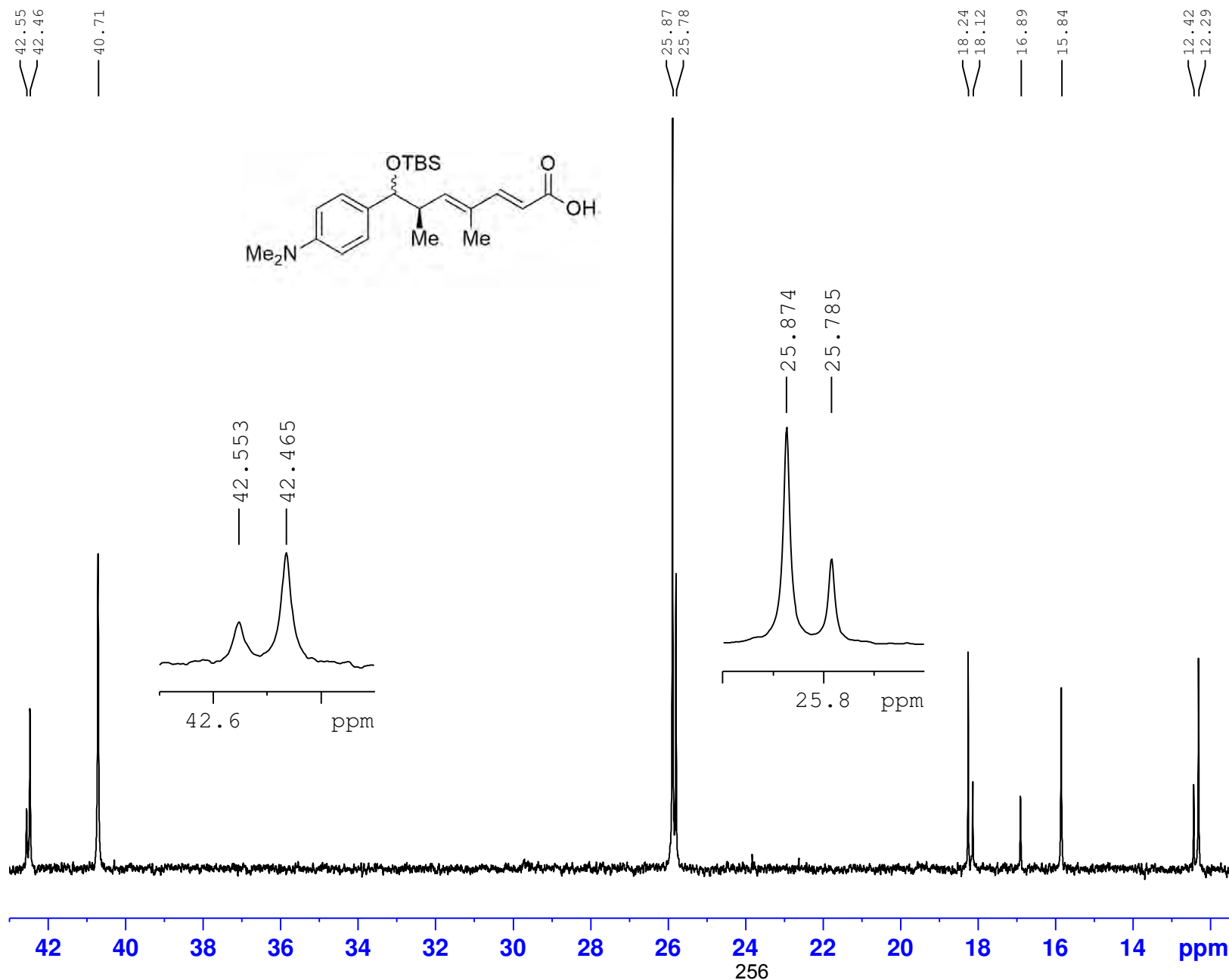
Current Data Parameters
 NAME I-PK-294
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190528
 Time 4.02
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDC13
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TDO 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549357 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





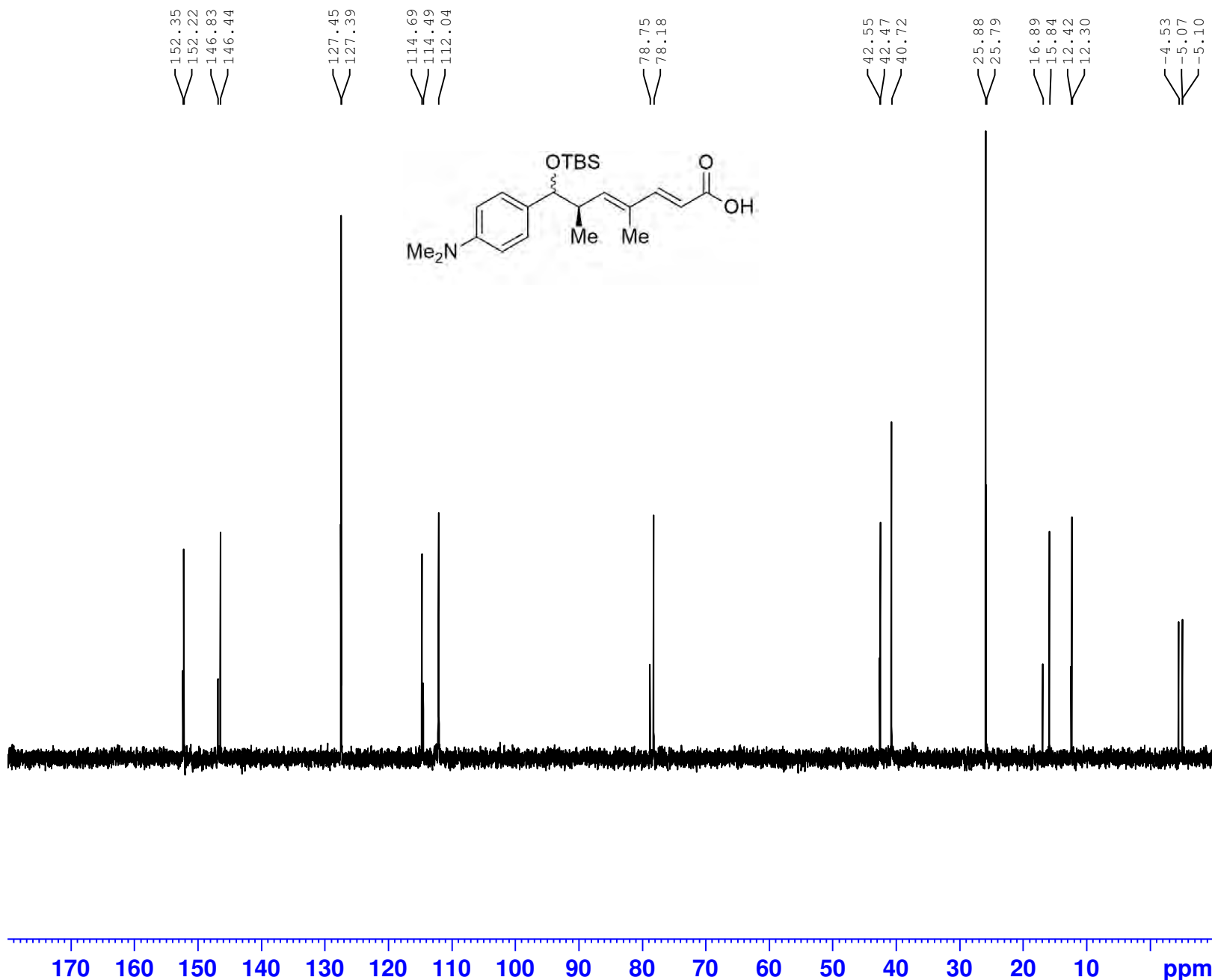
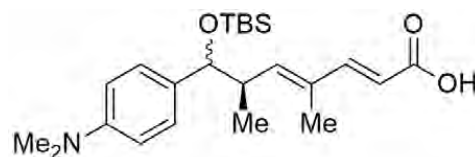
Current Data Parameters
 NAME I-PK-294
 EXPNO 12
 PROCNO 1

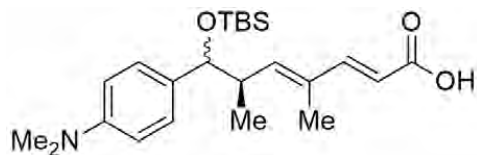
F2 - Acquisition Parameters
 Date_ 20190528
 Time 4.18
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDC13
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549352 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40





Current Data Parameters
 NAME I-PK-294
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190528
 Time 4.20
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDC13
 NS 1
 DS 8
 SWH 3770.739 Hz
 FIDRES 1.841181 Hz
 AQ 0.2715648 sec
 RG 2050
 DW 132.600 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.87425190 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00026520 sec

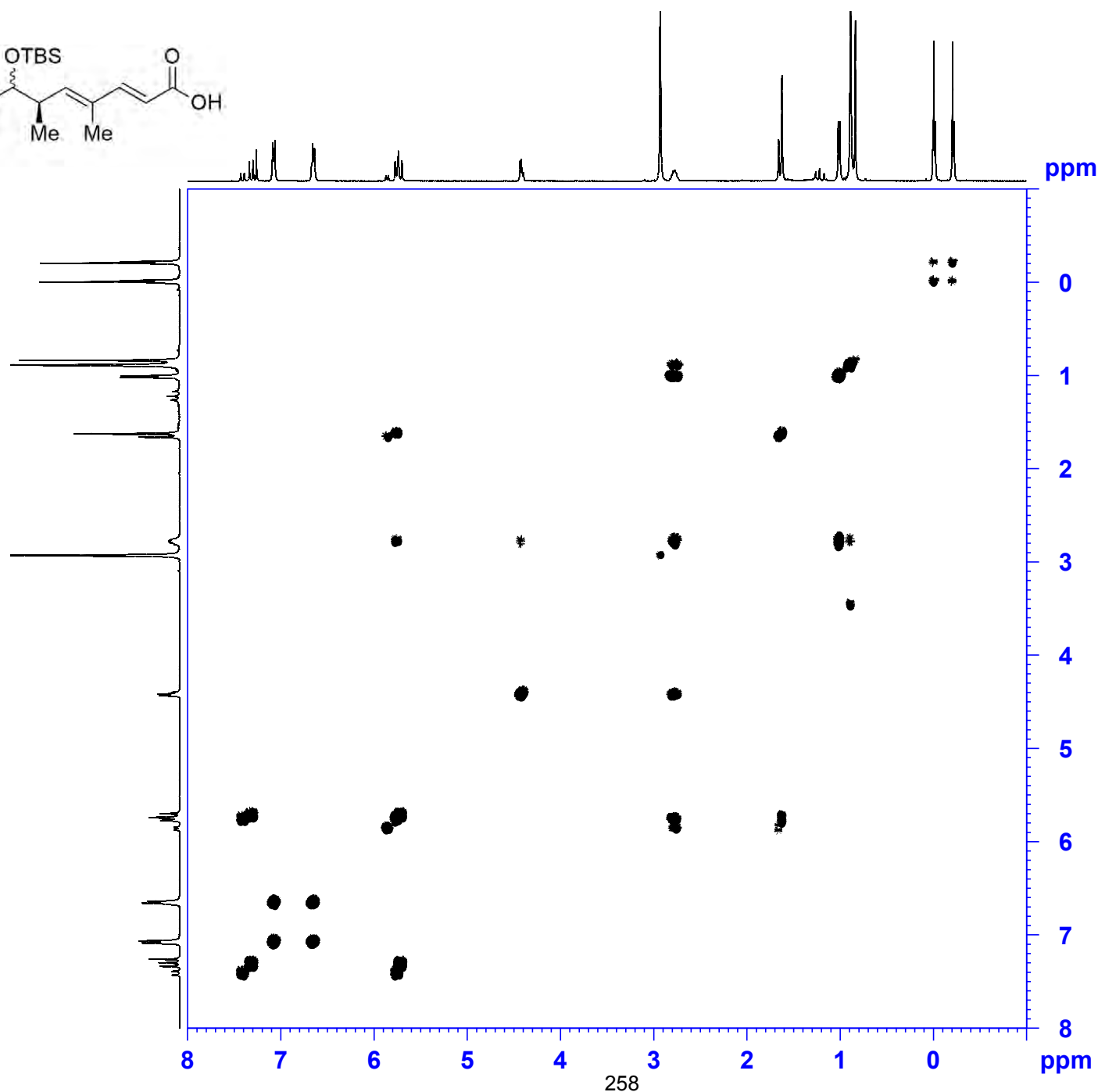
===== CHANNEL f1 =====
 SFO1 399.9013941 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

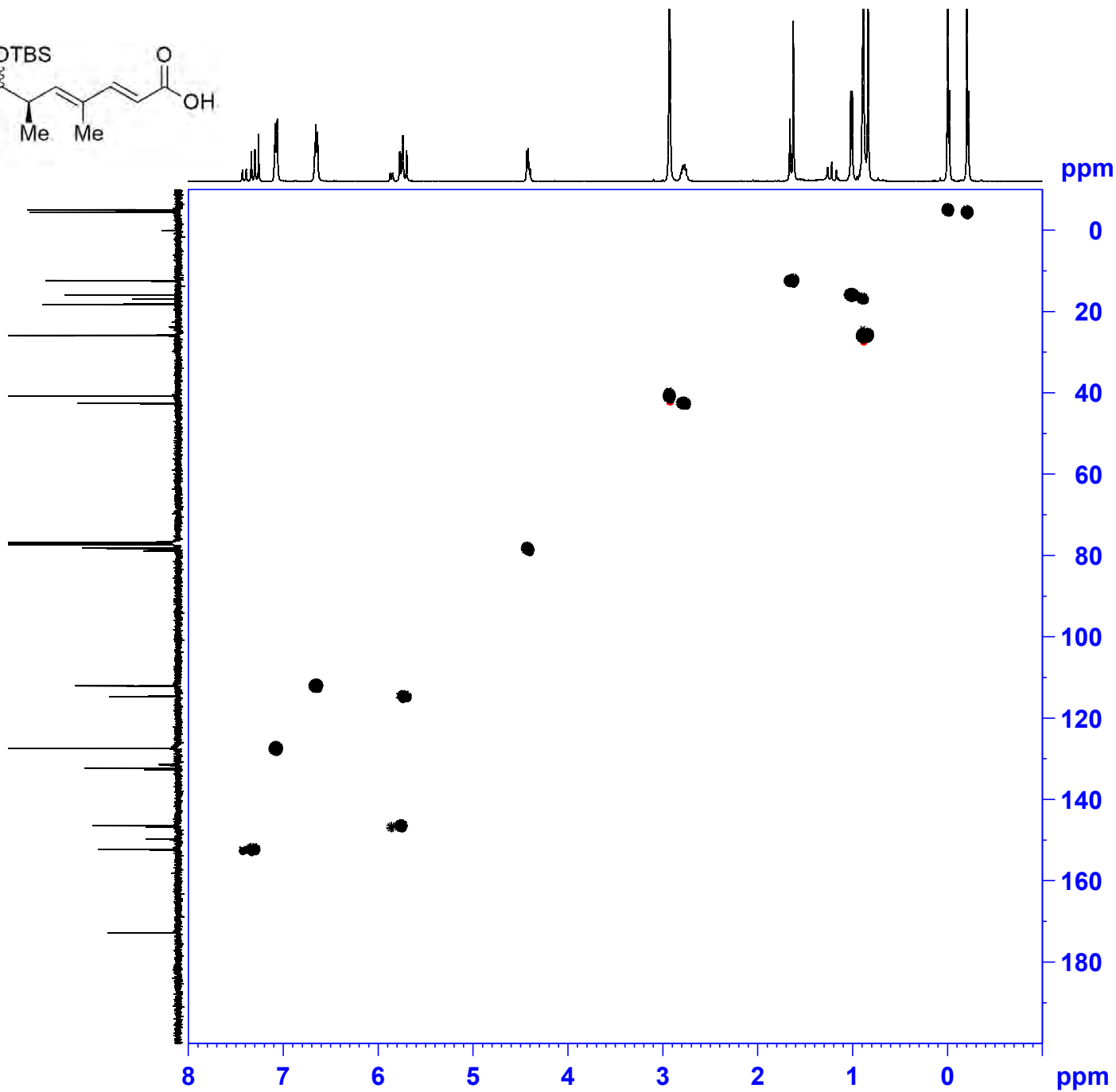
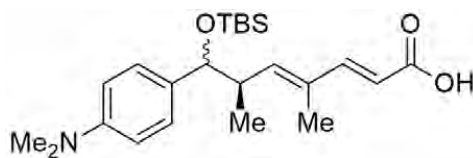
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 399.9014 MHz
 FIDRES 29.458899 Hz
 SW 9.429 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000098 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000103 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





```
Current Data Parameters
NAME          I-PK-294
EXPNO         14
PROCNO        1
```

```

F2 - Acquisition Parameters
Date      20190528
Time      4.27
INSTRUM   spect
PROBHD    5 mm PABBO BB
PULPROG   hsqcedetgssp.3
TD         1024
SOLVENT    CDCl3
NS         2
DS         32
SWH        4807.692 Hz
FIDRES     4.695012 Hz
AQ         0.1064960 sec
RG         2050
DW         104.000 usec
DE         6.50 usec
TE         300.1 K
CONST2    145.0000000
D0         0.00000300 sec
D1         0.80000001 sec
D4         0.00172414 sec
D11        0.03000000 sec
D16        0.00029000 sec
D21        0.00360000 sec
INO        0.00001910 sec

```

```

===== CHANNEL f1 =====
SFO1      399.9018806 MHz
NUC1      1H
P1         14.88 usec
P2         29.76 usec
P28        0 usec
PLW1      7.59999990 W

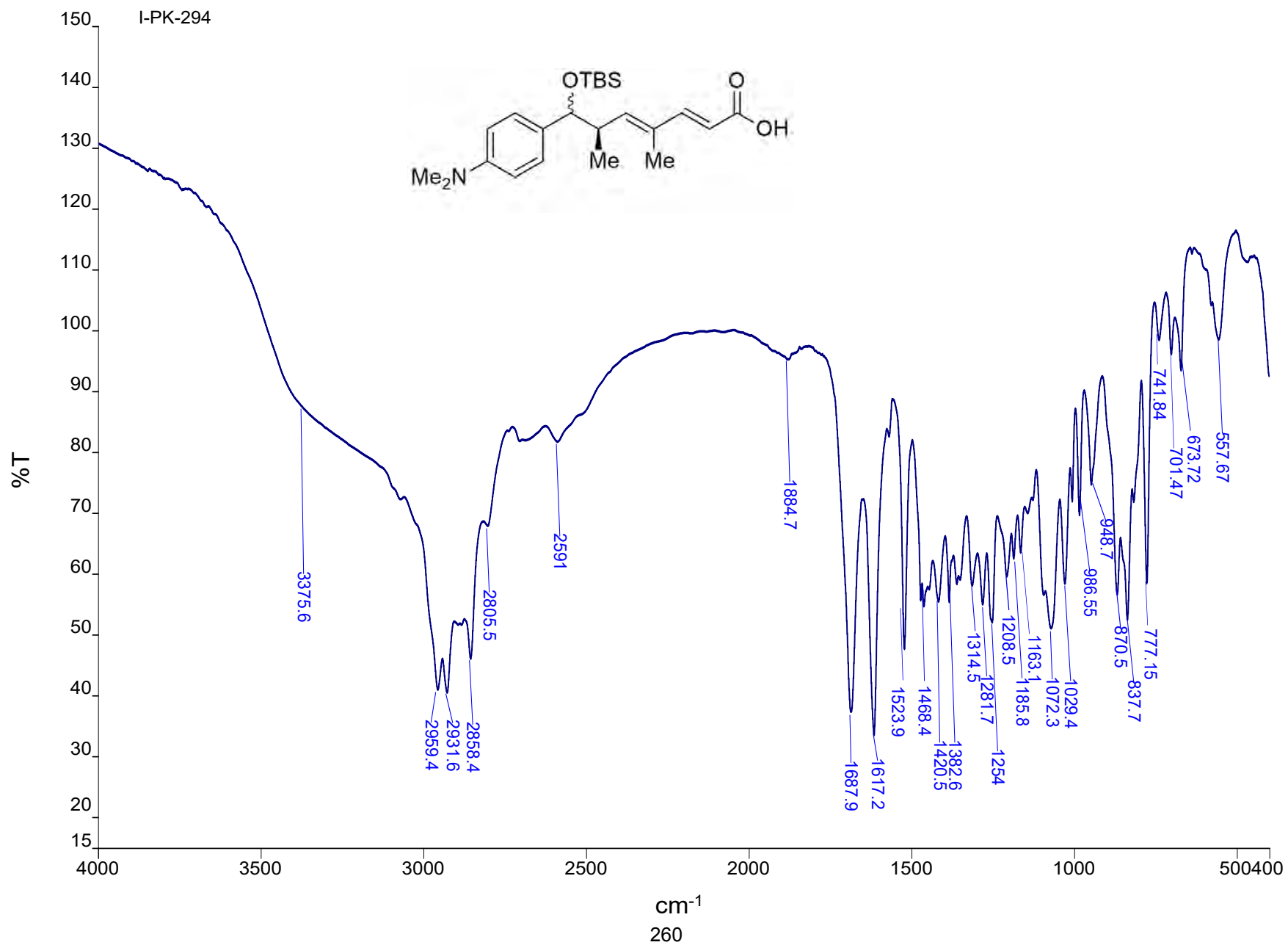
```

```
===== CHANNEL f2
SF02      100.5670016 MHz
NUC2      13C
CDPDRG[2]      garp4
F3        10.00 usec
P14       500.00 usec
P31       1900.00 usec
PCPBD2     80.00 usec
PLW0      0 W
PLW2      44.46300125 W
PLW12     0.6327999 W
SPNAM[3] Crp60 0.5,20.1
SPOAL3    Crp60 0      0.500
SPOFFS3   0 Hz
SPW3      6.79339981 W
SPNAM[18] Crp60_xflit.2
SFOAL18   0.500
SPOFFS18  0 Hz
SPW18     1.62779999 W
```

```
===== GRADIENT CHANNEL =====
GPNAM[1]      SMSQ10.100
GPNAM[2]      SMSQ10.100
GPZ1          80.00 %
GPZ2          20.10 %
P16           1000.00 usec
```

```
F1 - Acquisition parameters
TD                256
SFO1              100.567 MHz
FIDRES            204.515701 Hz
SW                260.304 ppm
FnMODE            Echo-Antiecho
```

```
F2 - Processing parameters
SI              1024
SF              399.9000097 MHz
WDW             QSINE
```



Mass Spectrometry Result Sheet

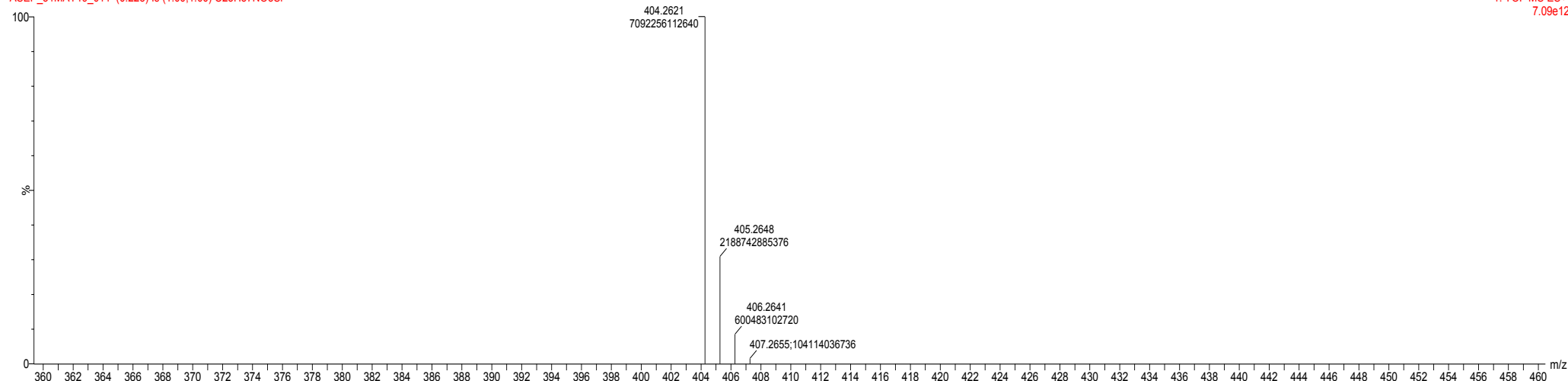
Waters Xevo G2-XS QToF Mass Spectrometer

31-05-2019

I-PK-294

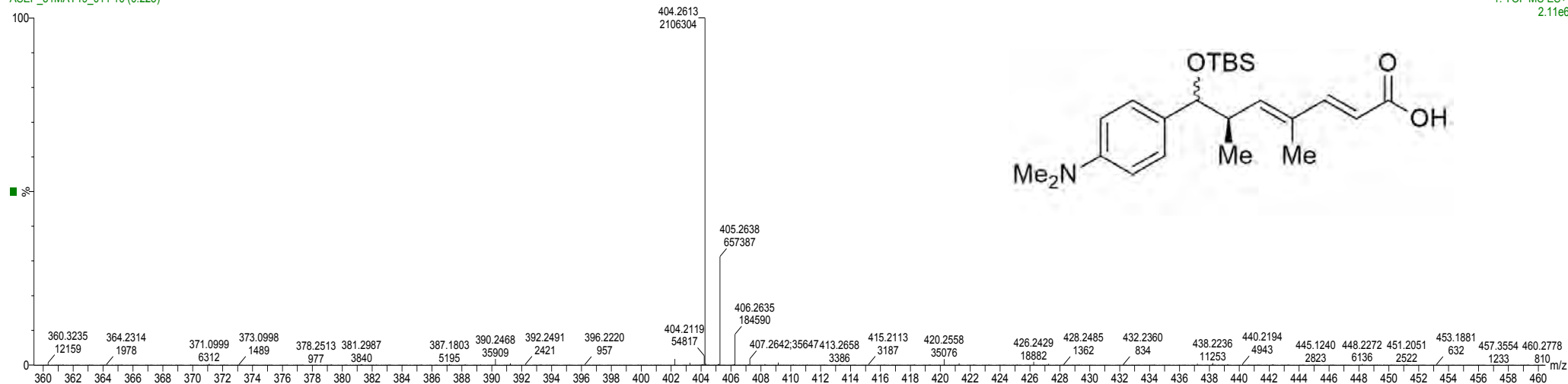
ASEP_31MAY19_011 (0.225) Is (1.00,1.00) C₂₃H₃₇NO₃Si

1: TOF MS ES+
7.09e12

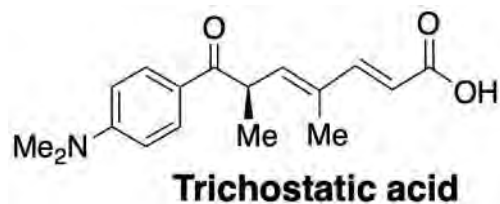


ASEP_31MAY19_011 10 (0.225)

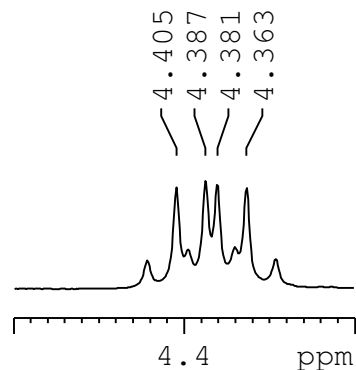
1: TOF MS ES+
2.11e6



7.850
7.837
7.832
7.378
7.339
7.260
6.650
6.645
6.631
6.627
6.072
6.048
5.869
5.830



4.405
4.387
4.381
4.363



3.048

1.921
1.918

1.317
1.300

— -0.004



Current Data Parameters

NAME I-PK-296
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

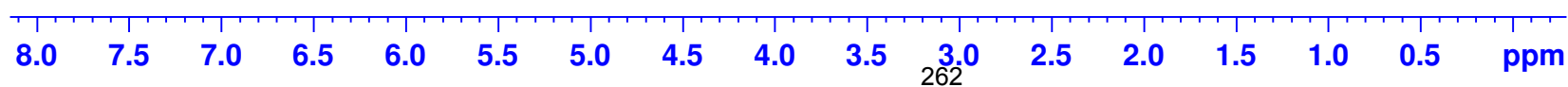
Date_ 20190604
Time 13.21
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====

SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters

SI 32768
SF 400.110094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



262

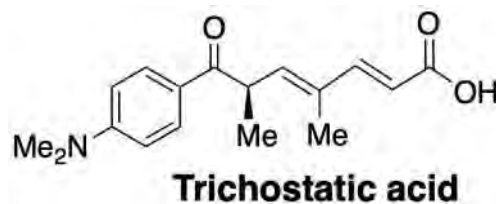
7.855
7.850
7.837
7.832

7.378
7.339
7.260

6.650
6.645
6.631
6.627

6.072
6.048

5.869
5.830

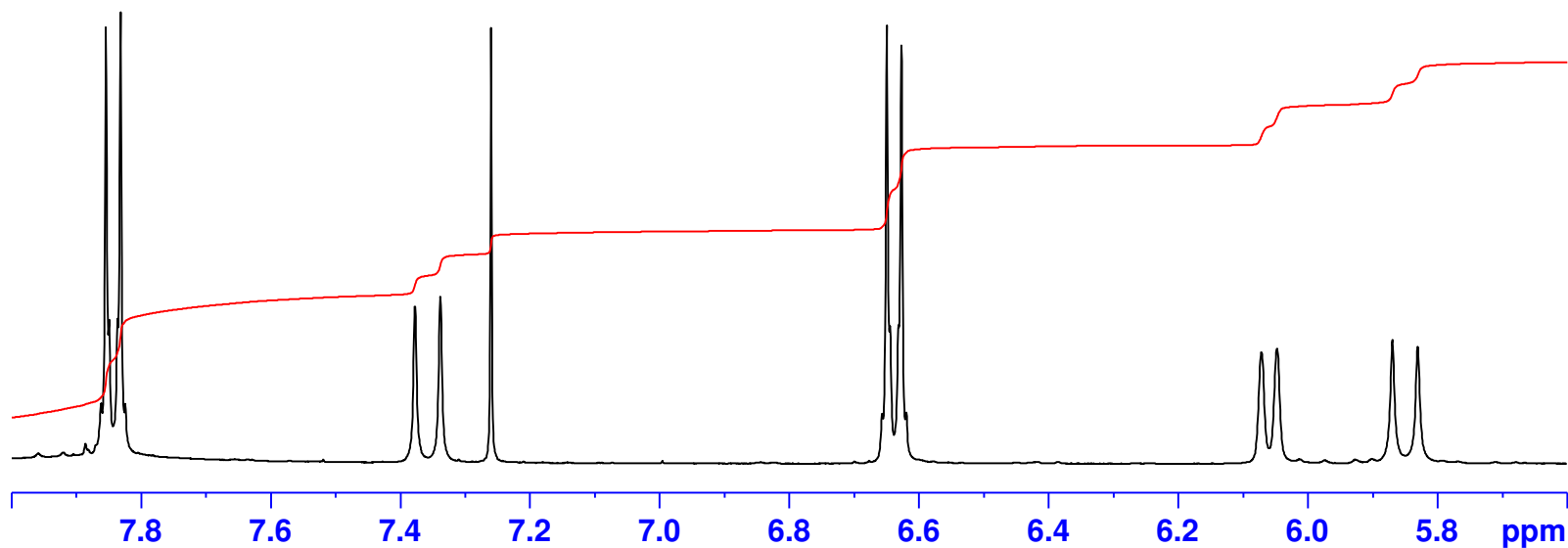


Current Data Parameters
NAME I-PK-296
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190604
Time 13.21
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





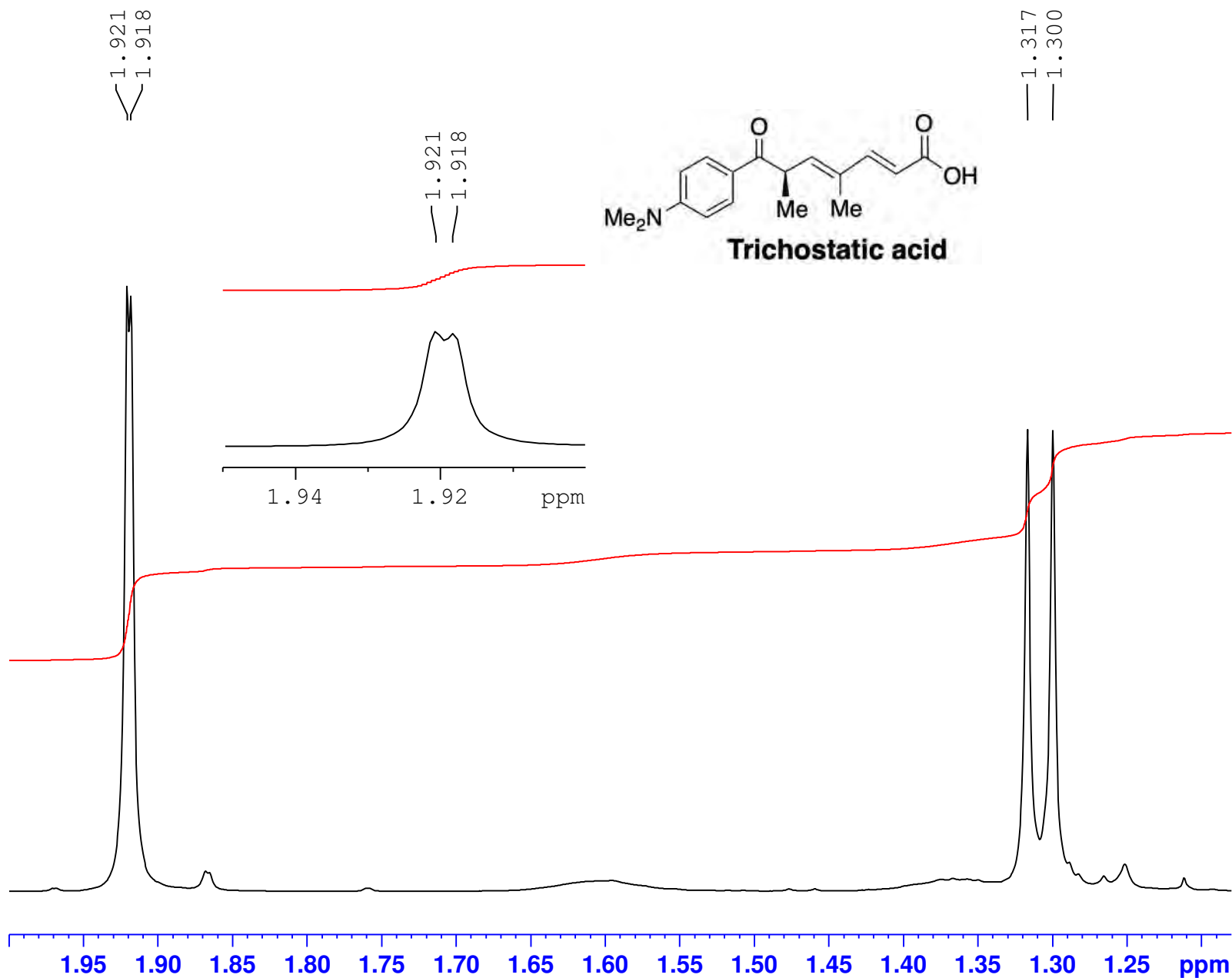
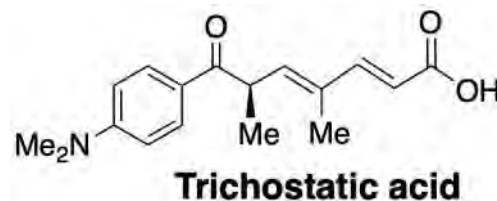
Current Data Parameters
NAME I-PK-296
EXPNO 10
PROCNO 1

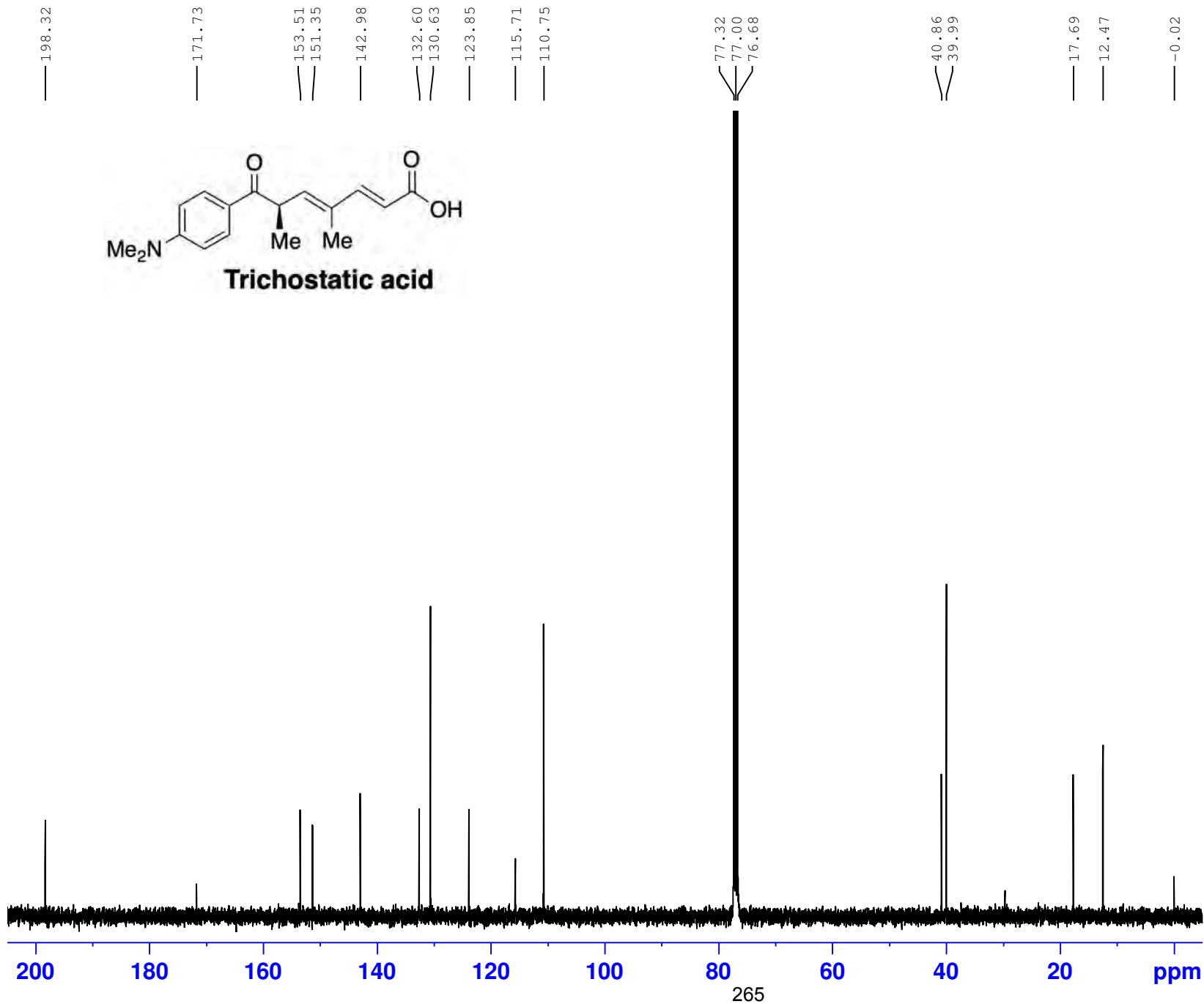
F2 - Acquisition Parameters

Date_ 20190604
Time 13.21
INSTRUM AVIII_400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 80.6
DW 60.800 usec
DE 16.82 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1124708 MHz
NUC1 1H
P1 15.00 usec
PLW1 17.29199982 W

F2 - Processing parameters
SI 32768
SF 400.1100094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





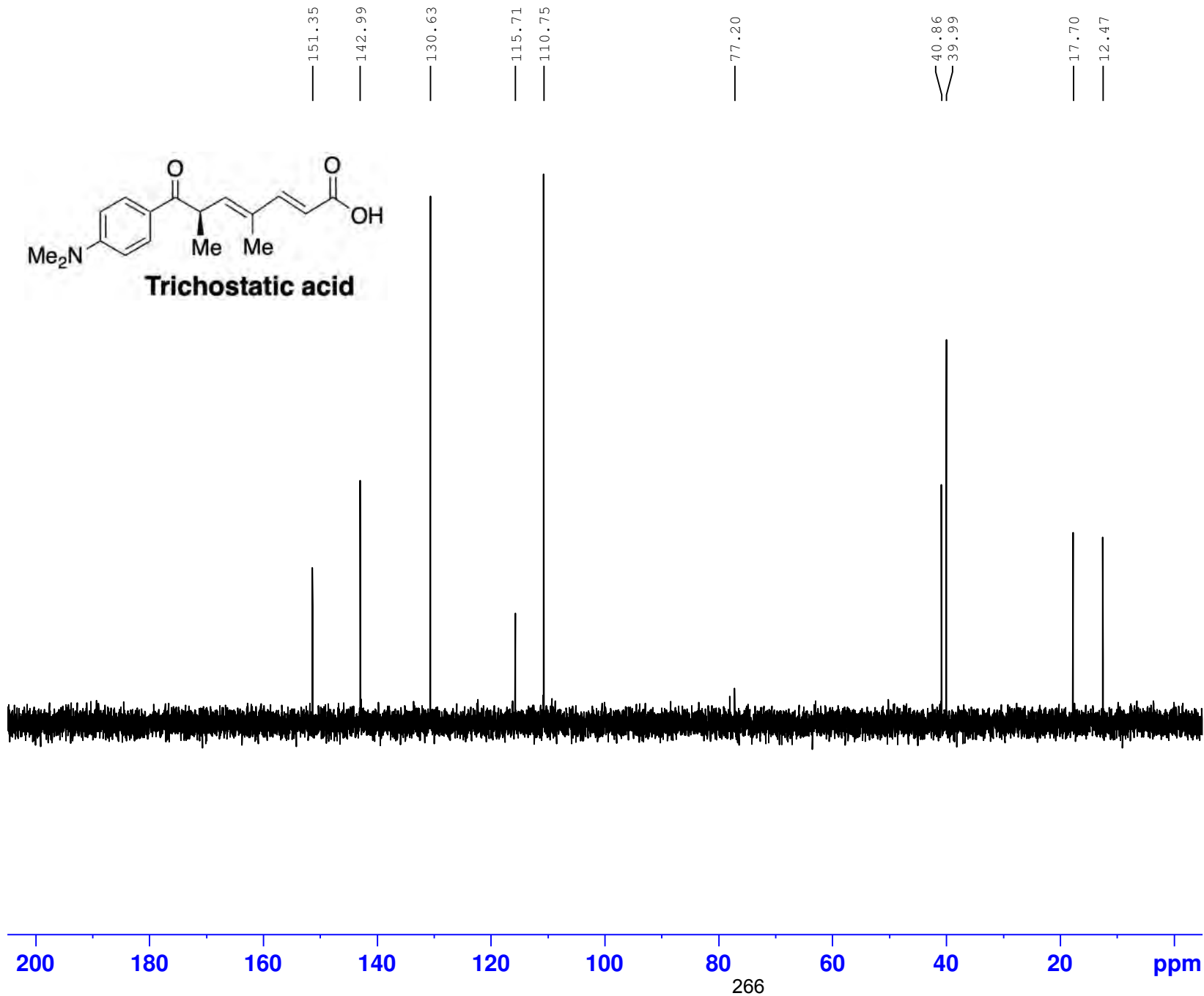
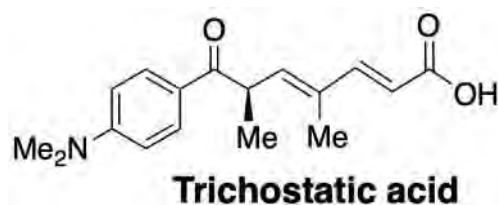
Current Data Parameters
 NAME I-PK-TSACID04
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190722
 Time 18.26
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 25000.000 Hz
 FIDRES 0.210006 Hz
 AQ 2.3808801 sec
 RG 2050
 DW 20.000 usec
 DE 9.12 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 100.5659947 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 44.46300125 W

===== CHANNEL f2 =====
 SFO2 399.9015996 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W
 PLW13 0.16827001 W

F2 - Processing parameters
 SI 131072
 SF 100.5549369 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



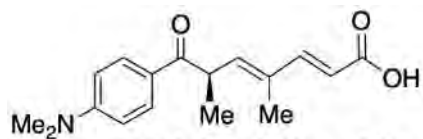
Current Data Parameters
 NAME I-PK-TSACID04
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190722
 Time 18.43
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 300.0 K
 CNST2 145.0000000
 D1 2.00000000 sec
 D2 0.00344828 sec
 D12 0.00002000 sec
 TD0 1

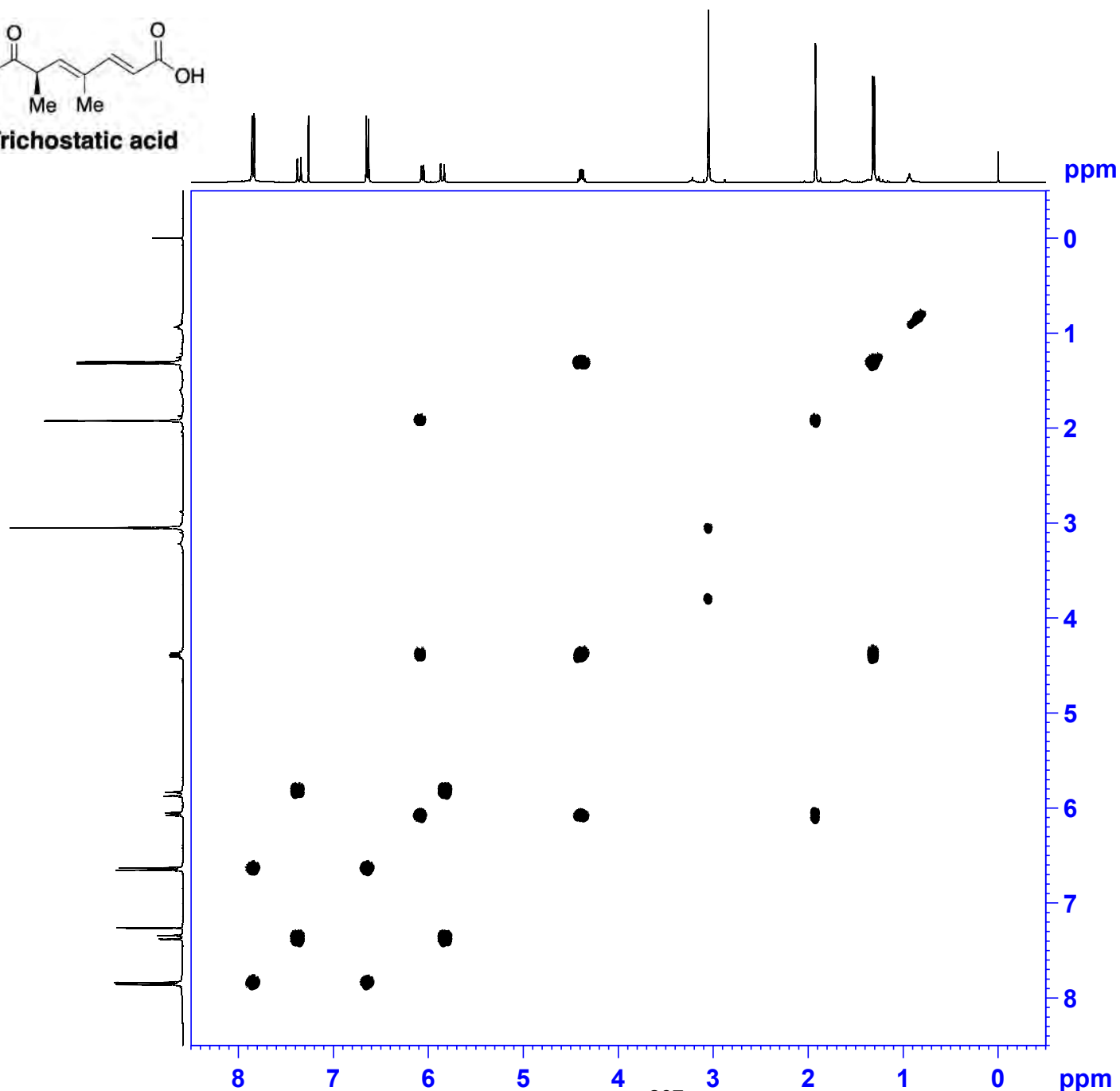
===== CHANNEL f1 =====
 SFO1 100.5649905 MHz
 NUC1 13C
 P1 10.00 usec
 P13 2000.00 usec
 PLW0 0 W
 PLW1 44.46300125 W
 SPNAM[5] Crp60comp.4
 SPOAL5 0.500
 SPOFFS5 0 Hz
 SPW5 6.79339981 W

===== CHANNEL f2 =====
 SFO2 399.9012789 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 P3 14.88 usec
 P4 29.76 usec
 PCPD2 90.00 usec
 PLW2 7.59999990 W
 PLW12 0.20774999 W

F2 - Processing parameters
 SI 32768
 SF 100.5549365 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Trichostatic acid



Current Data Parameters
 NAME I-PK-TSACID04
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20190722
 Time 18.45
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT CDCl3
 NS 1
 DS 8
 SWH 3875.969 Hz
 FIDRES 1.892563 Hz
 AQ 0.2641920 sec
 RG 2050
 DW 129.000 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.88244390 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 INO 0.00025800 sec

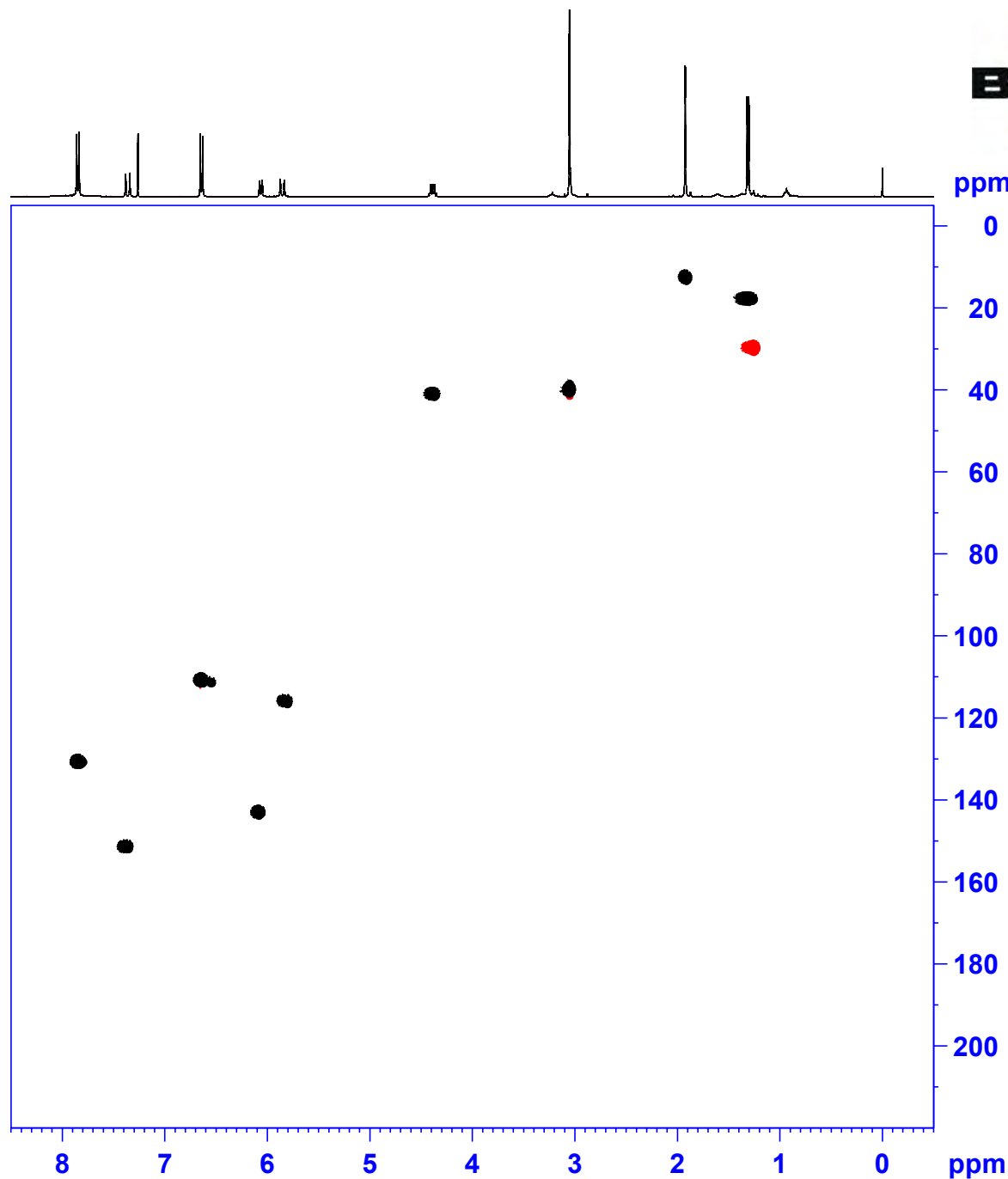
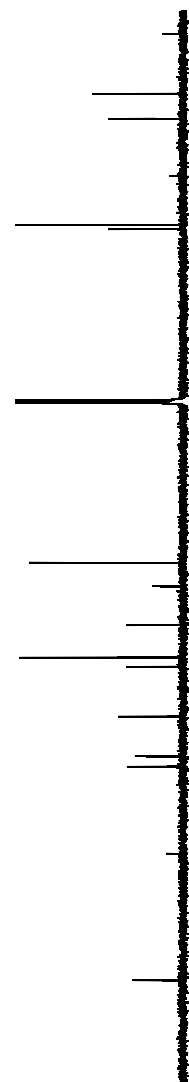
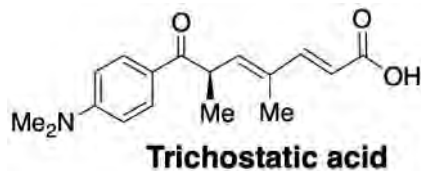
===== CHANNEL f1 =====
 SF01 399.9015252 MHz
 NUC1 1H
 P1 14.88 usec
 P17 2500.00 usec
 PLW1 7.59999990 W
 PLW10 2.48930001 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 399.9015 MHz
 FIDRES 30.281008 Hz
 SW 9.692 ppm
 FMODE QF

F2 - Processing parameters
 SI 1024
 SF 399.9000119 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 399.9000134 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



Current Data Parameters
NAME I-PK-138TRICHO
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180816
Time_ 1.51
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgsp.3
TD 1024
SOLVENT CDCl3
NS 2
DS 32
SWH 4807.692 Hz
FIDRES 4.695012 Hz
AQ 0.1064960 sec
RG 2050
DW 104.000 usec
DE 6.50 usec
TE 300.1 K
CNST2 145.000000
DO 0.00000300 sec
D1 0.80000001 sec
D4 0.00172414 sec
D11 0.03000000 sec
D16 0.00020000 sec
D21 0.00360000 sec
IN0 0.0001910 sec

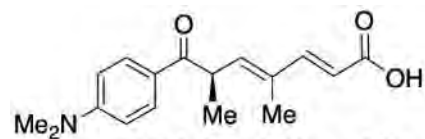
===== CHANNEL f1 =====
SFO1 399.9018806 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
P28 0 usec
PLW1 7.599999990 W

===== CHANNEL f2 =====
SFO2 100.5670016 MHz
NUC2 13C
CPDPRG[2] garr4
P3 10.00 usec
P14 500.00 usec
P31 1900.00 usec
PCPD2 80.00 usec
PLW0 0 W
PLW2 44.46300125 W
PLW12 0.69472998 W
SFOAL3 Crp60,0.5,20.1
SFOAL3 0.500
SPOFFS3 0 Hz
SPW3 6.79339981 W
SFOAL18 Crp60_xfilt.2
SFOAL18 0.500
SPOFFS18 0 Hz
SPW18 1.62779999 W

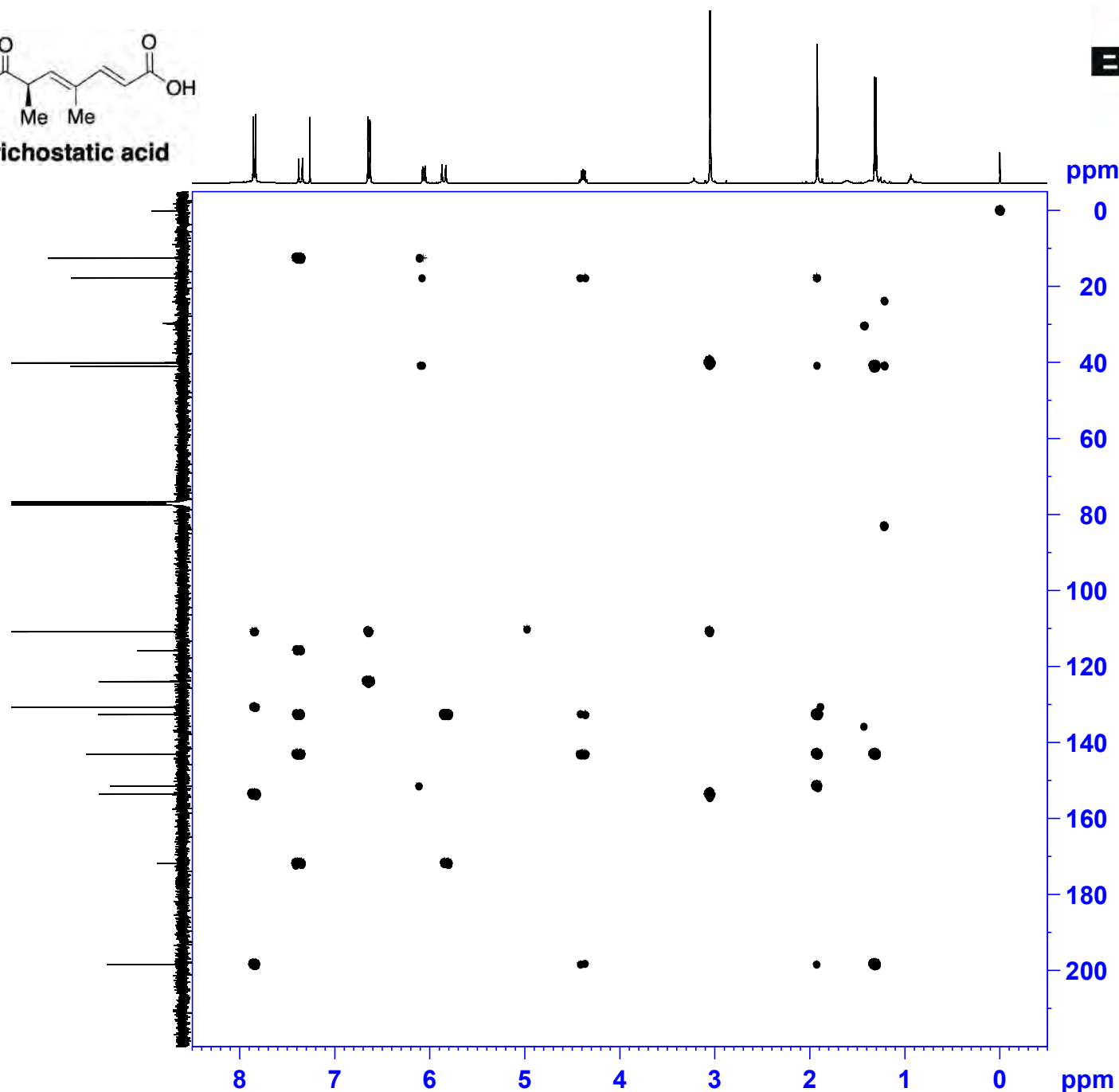
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.567 MHz
FIDRES 204.515701 Hz
SW 260.304 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
--



Trichostatic acid



Current Data Parameters
NAME I-PK-TSACID04
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20190722
Time 18.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hmbcetgp13nd
TD 4096
SOLVENT CDCl3
NS 4
DS 16
SWH 5208.333 Hz
FIDRES 1.271566 Hz
AQ 0.3932160 sec
RG 2050
DW 96.000 usec
DE 6.50 usec
TE 300.0 K
CNST6 120.0000000
CNST7 175.0000000
CNST13 8.0000000
CNST30 0.5981122
D0 0.0000300 sec
D1 1.5000000 sec
D6 0.0625000 sec
D16 0.0002000 sec
IN0 0.00002070 sec

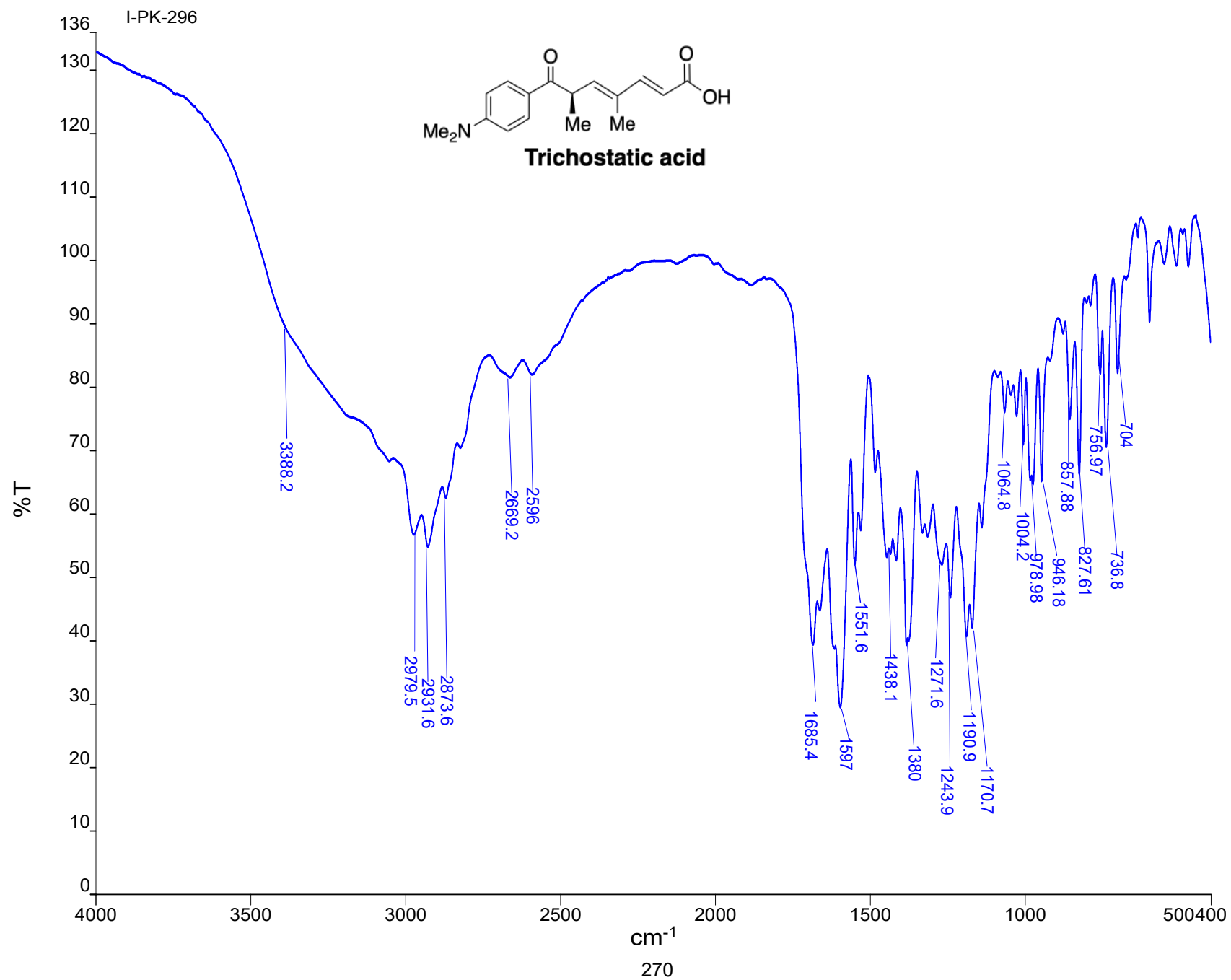
===== CHANNEL f1 =====
SFO1 399.9019995 MHz
NUC1 1H
P1 14.88 usec
P2 29.76 usec
PLW1 7.59999990 W

===== CHANNEL f2 =====
SFO2 100.5659947 MHz
NUC2 13C
P3 10.00 usec
P24 2000.00 usec
PLW2 44.46300125 W
SPNAM[7] Crp60comp.4
SPOAL7 0.500
SPOFFS7 0 Hz
SPW7 6.79339981 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[3] SMSQ10.100
GPNAM[4] SMSQ10.100
GPNAM[5] SMSQ10.100
GPNAM[6] SMSQ10.100
GPZ1 80.00 %
GPZ3 14.00 %
GPZ4 -8.00 %
GPZ5 -4.00 %
GPZ6 -2.00 %
P16 1000.00 usec

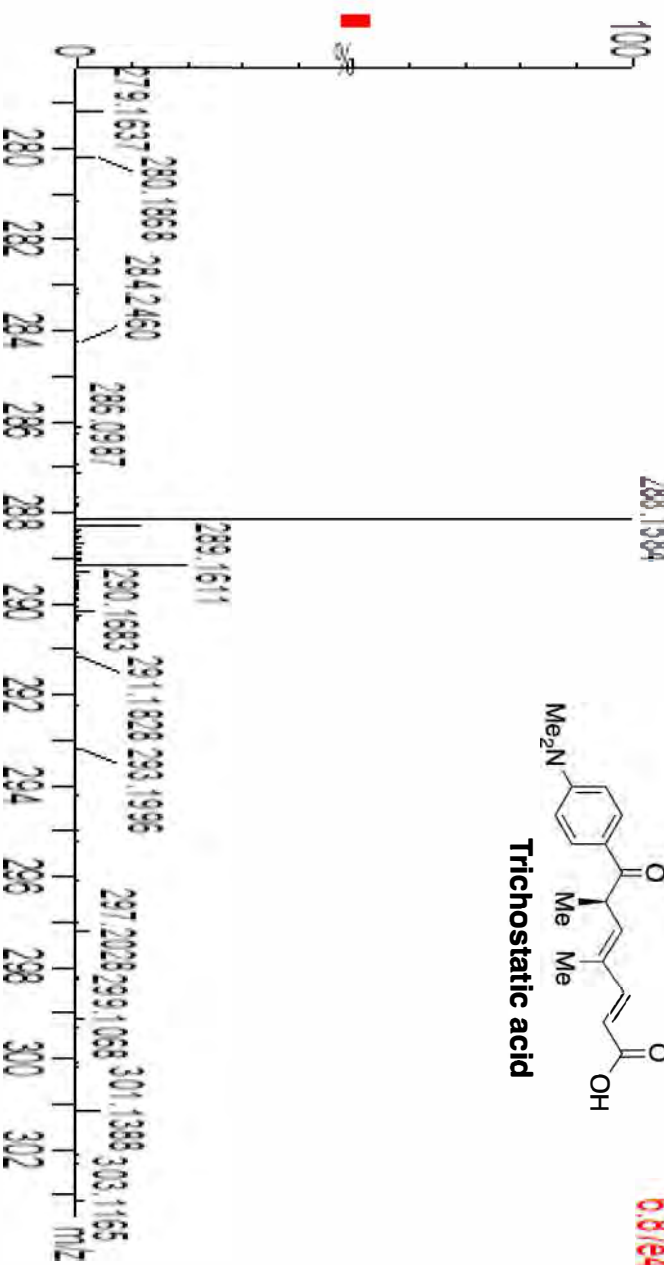
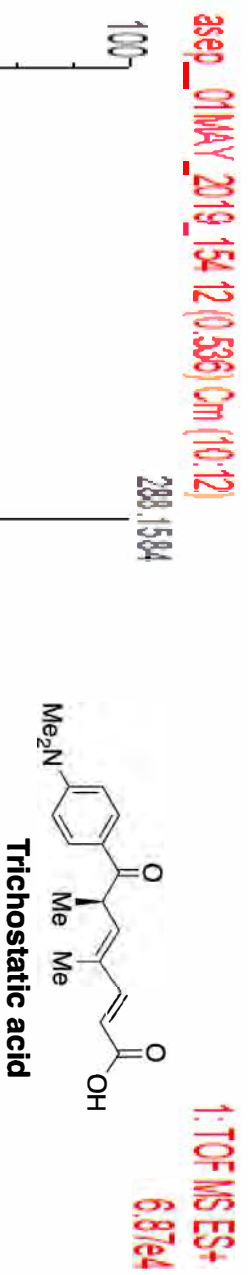
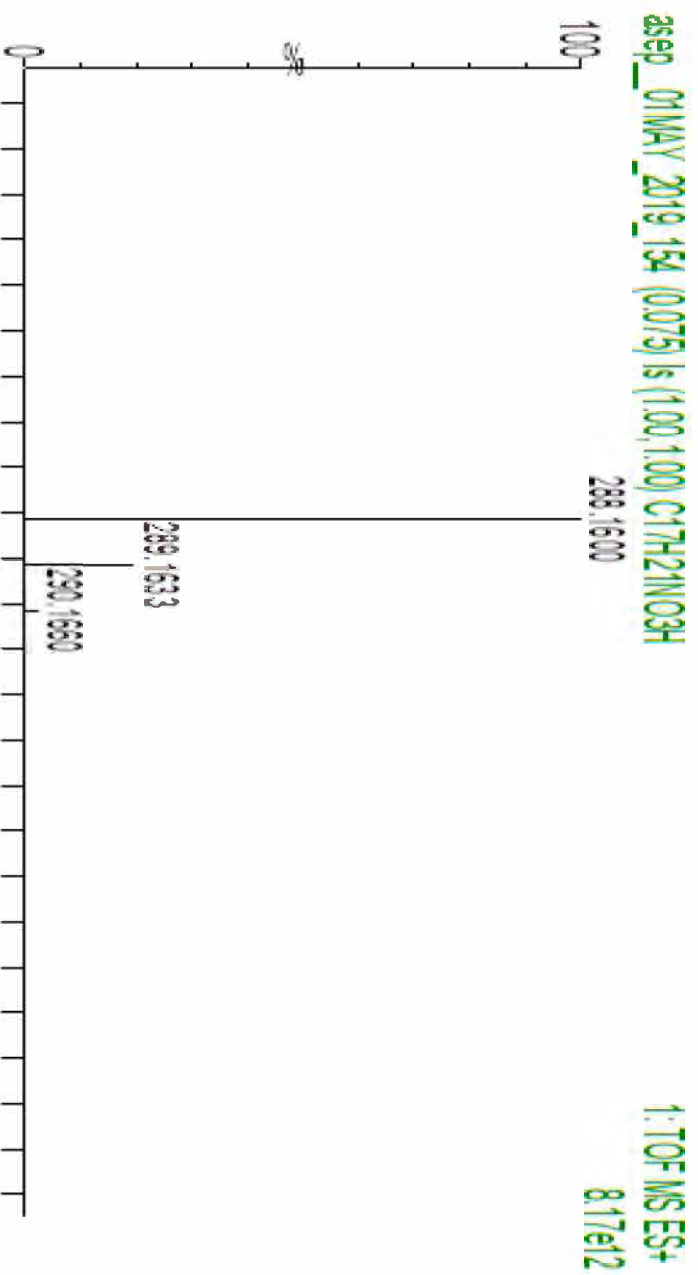
F1 - Acquisition parameters
TD 512
SFO1 100.566 MHz
FIDRES 94.353867 Hz
SW 240.186 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 4096
SF 399.9000096 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0
PC 1.00



11-PK-296

20-06-2019



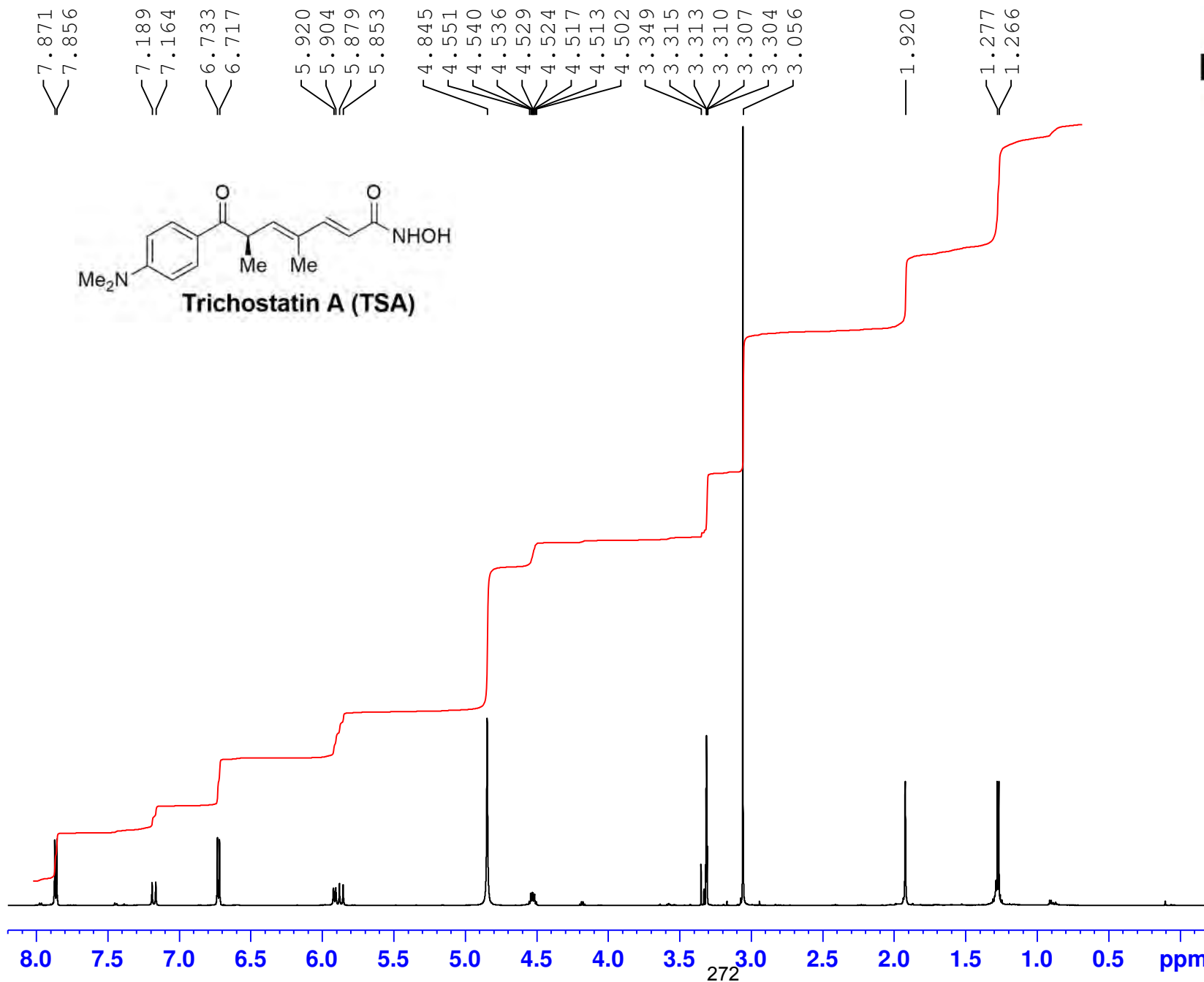


Current Data Parameters
NAME IV-PK-TSA2.0
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201216
Time 7.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300115 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00





Current Data Parameters
 NAME IV-PK-TSA2.0
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20201216
 Time 7.12
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT MeOD
 NS 16
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

F2 - Processing parameters
 SI 262144
 SF 600.1300115 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

7.871
7.856

7.189
7.164

6.733
6.717

5.920
5.904
5.879
5.853

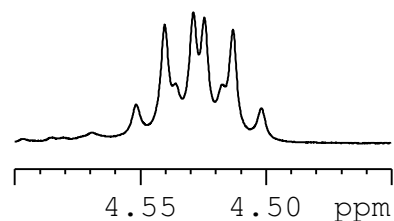
4.845
4.551
4.540
4.536
4.529
4.524
4.517
4.513
4.502
3.349
3.315
3.313
3.310
3.307
3.304
3.056

1.920

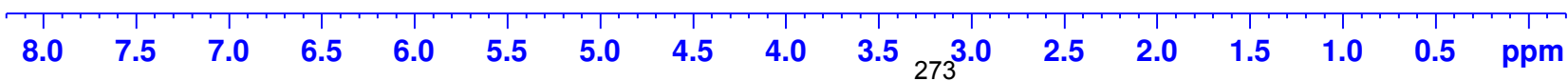
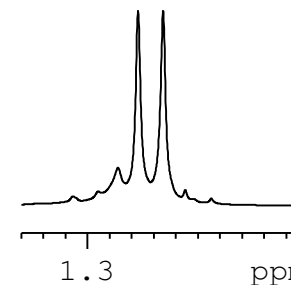
1.277
1.266



4.551
4.540
4.536
4.529
4.524
4.517
4.513
4.502



1.277
1.266

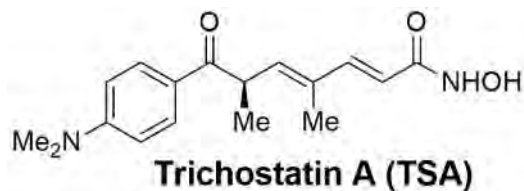


7.871
7.856

7.189
7.164

6.733
6.717

5.920
5.904
5.879
5.853

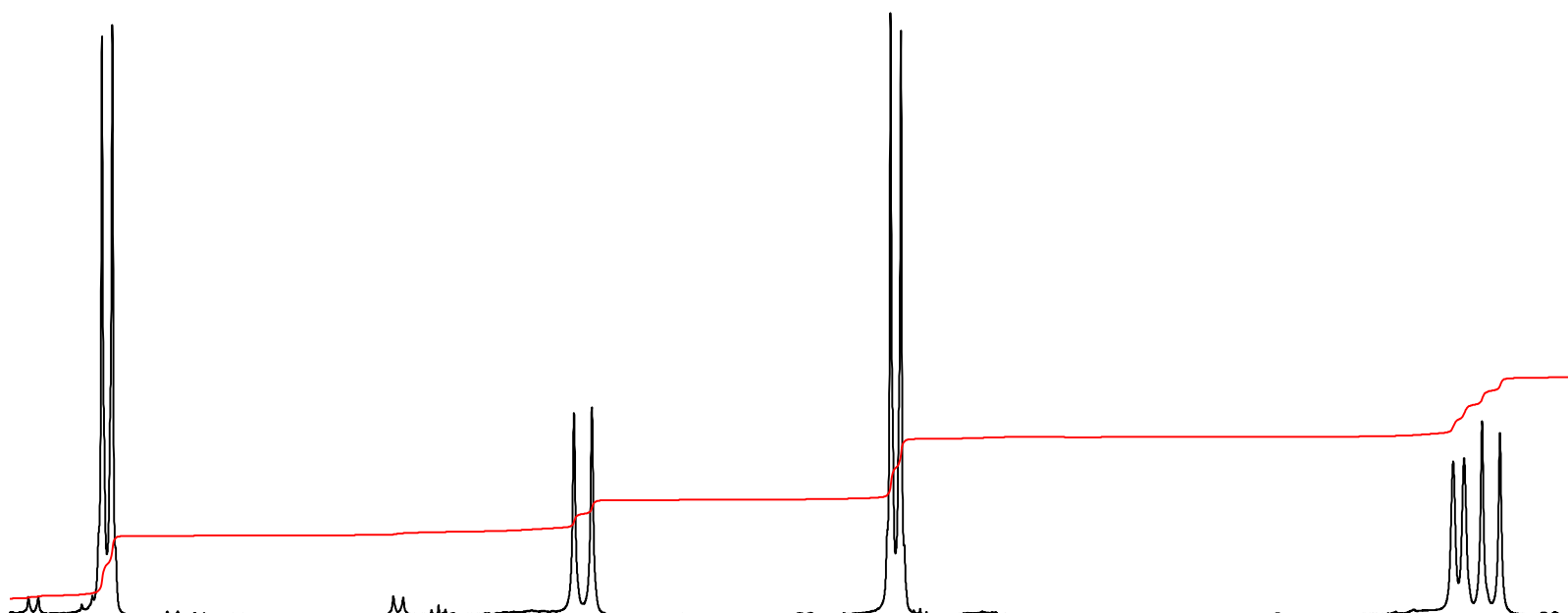


Current Data Parameters
NAME IV-PK-TSA2.0
EXPNO 10
PROCNO 1

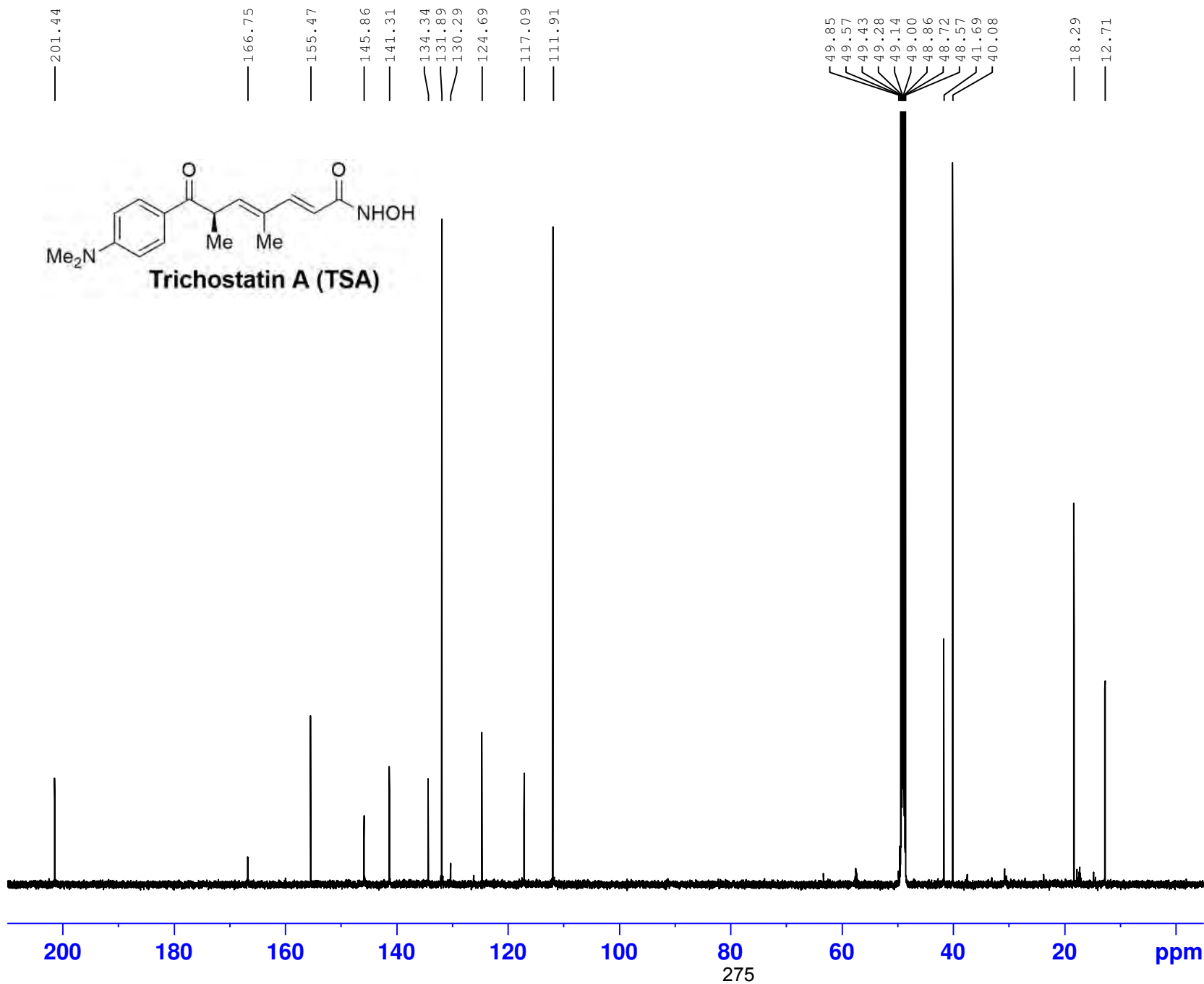
F2 - Acquisition Parameters
Date_ 20201216
Time 7.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 16
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300115 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



7.9 7.8 7.7 7.6 7.5 7.4 7.3 7.2 7.1 7.0 6.9 6.8 6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0 ppm



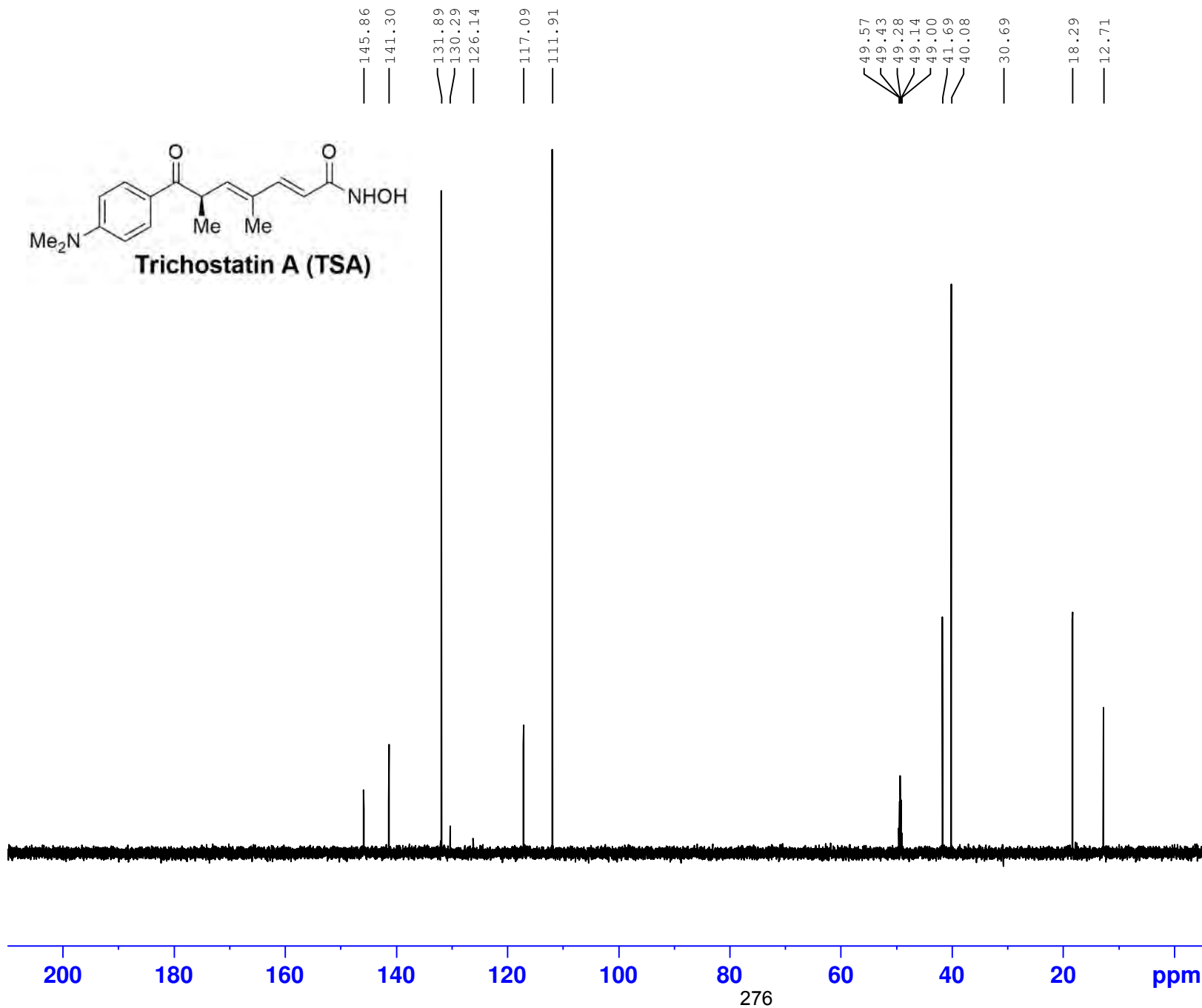
Current Data Parameters
 NAME IV-PK-TSA2.0
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201217
 Time 11.21
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 119044
 SOLVENT MeOD
 NS 5000
 DS 4
 SWH 37500.000 Hz
 FIDRES 0.315010 Hz
 AQ 1.5872533 sec
 RG 186.92
 DW 13.333 usec
 DE 7.73 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 150.9194058 MHz
 NUC1 13C
 P1 11.80 usec
 PLW1 85.00000000 W

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W
 PLW13 0.28090999 W

F2 - Processing parameters
 SI 131072
 SF 150.9025978 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME IV-PK-TSA2.0
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201216
 Time 7.36
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35.b
 TD 119044
 SOLVENT MeOD
 NS 500
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.300009 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

===== CHANNEL f1 =====
 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

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W

F2 - Processing parameters
 SI 131072
 SF 150.9025979 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME IV-PK-TSA2.0
 EXFNO 14
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201216
 Time 7.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG hsqcedetgsp.3
 TD 1024
 SOLVENT MeOD
 NS 2
 DS 32
 SWH 7211.539 Hz
 FIDRES 7.042518 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

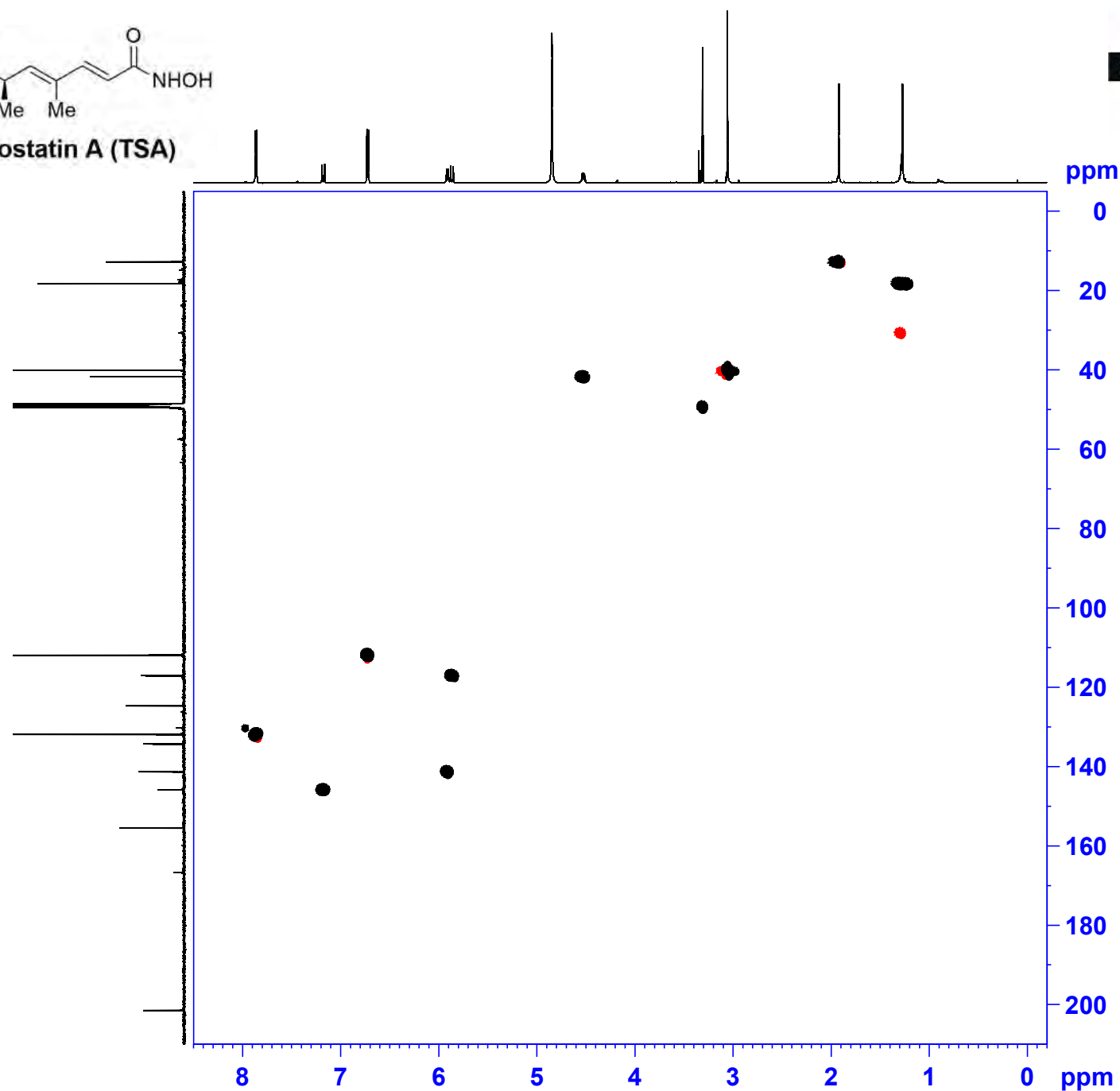
===== CHANNEL f1 =====
 SFO1 600.1328223 MHz
 NUC1 1H
 P1 10.00 usec
 P2 20.00 usec
 P28 0 usec
 PLW1 26.60000038 W

===== CHANNEL f2 =====
 SFO2 150.9178988 MHz
 NUC2 13C
 CPDPRG[2] garp4
 P3 11.80 usec
 P14 500.00 usec
 P31 1730.00 usec
 PCPD2 65.00 usec
 PLW0 0 W
 PLW2 85.00000000 W
 PLW12 2.80130005 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

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 P16 1000.00 usec

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

F2 - Processing parameters
 SI 1024
 SF 600.1300119 MHz
 WDW OSINE





Current Data Parameters
 NAME IV-PK-TSA2.0
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201216
 Time 7.38
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT MeOD
 NS 1
 DS 8
 SWH 5980.861 Hz
 FIDRES 2.920342 Hz
 AQ 0.1712128 sec
 RG 186.92
 DW 83.600 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.88940728 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00016720 sec

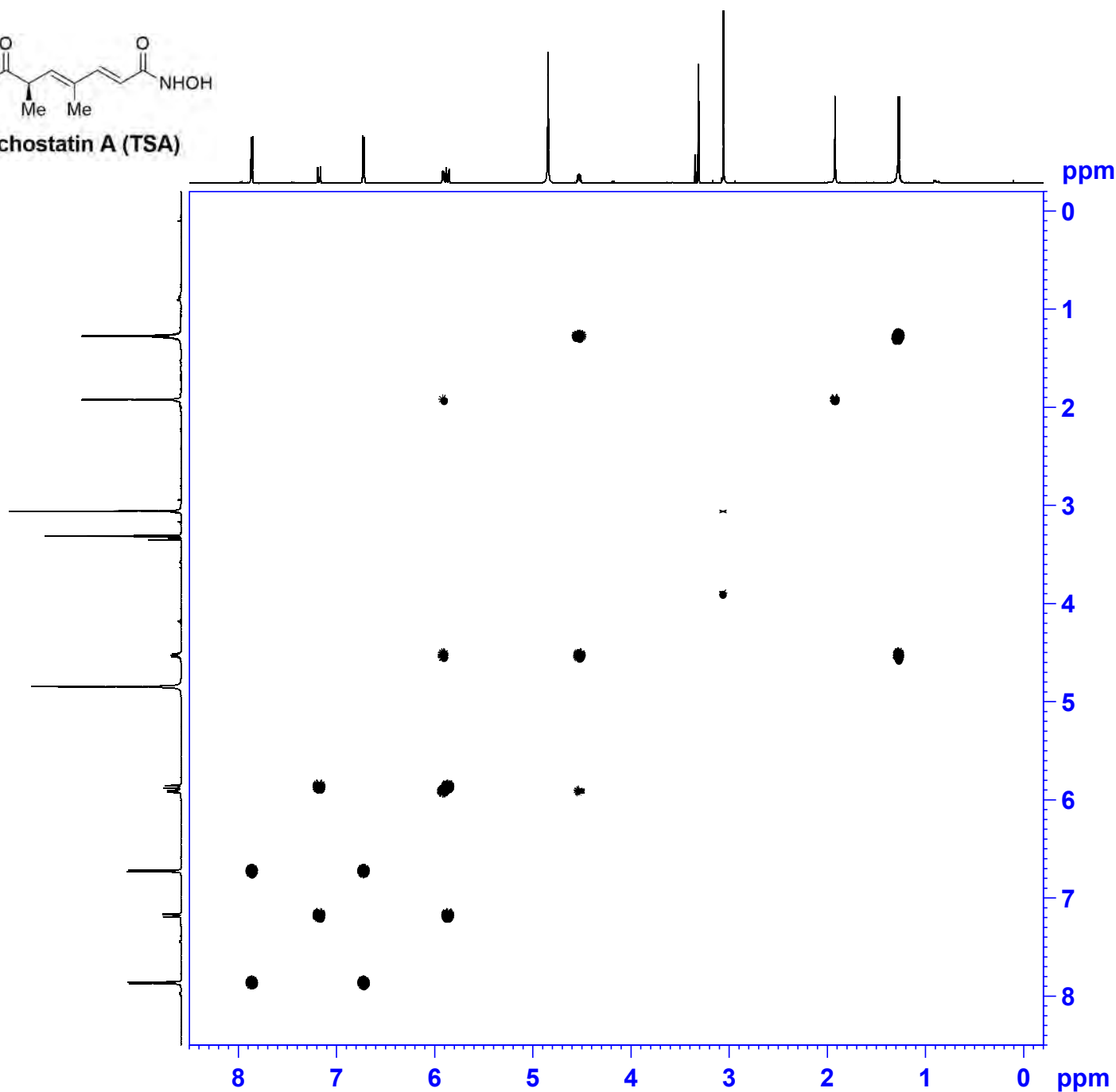
===== CHANNEL f1 =====
 SFO1 600.1323508 MHz
 NUC1 1H
 P1 10.00 usec
 PL1 2500.00 usec
 PLW1 26.60000038 W
 PLW10 3.93490005 W

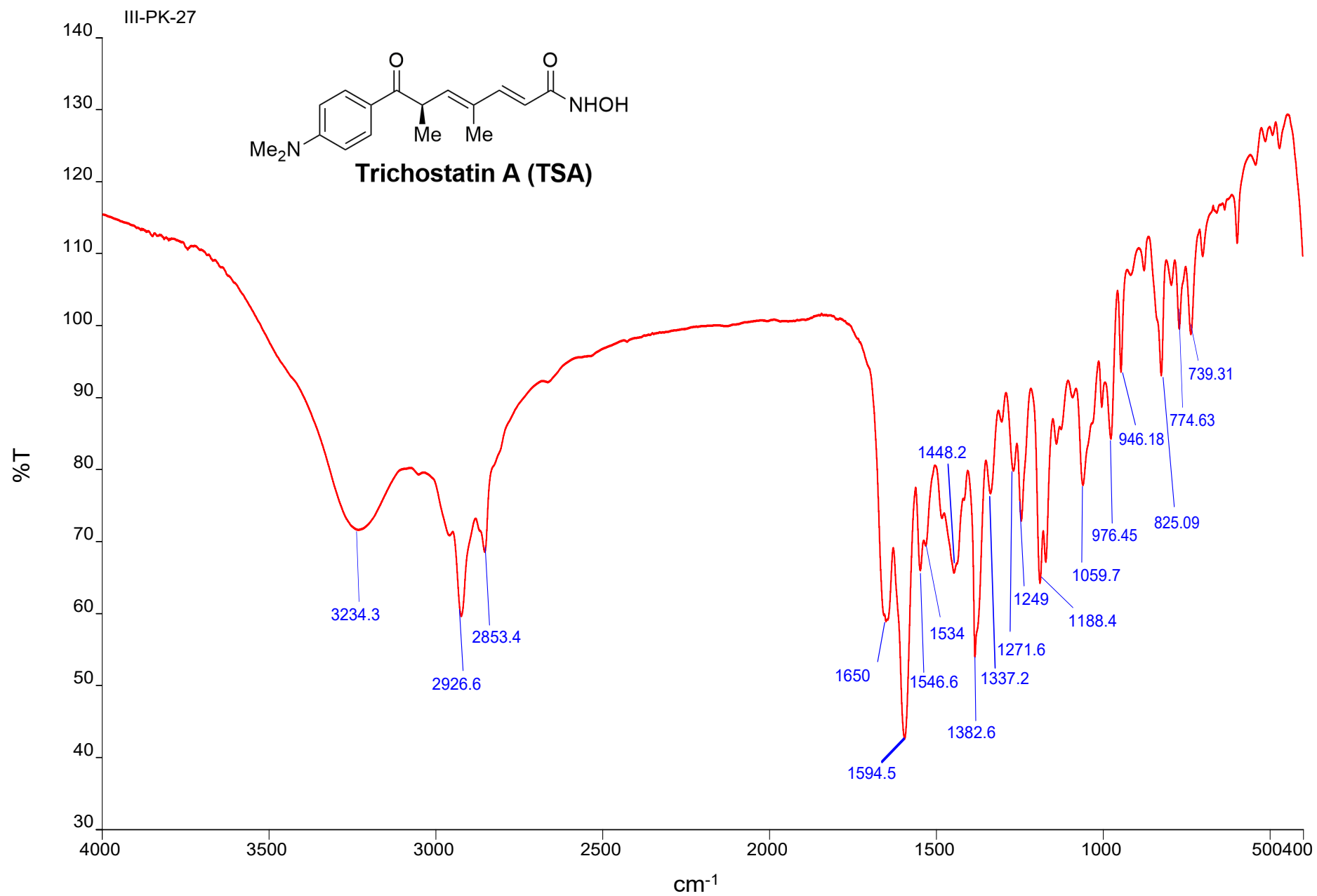
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SFO1 600.1324 MHz
 FIDRES 46.725479 Hz
 SW 9.966 ppm
 FnmODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300116 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

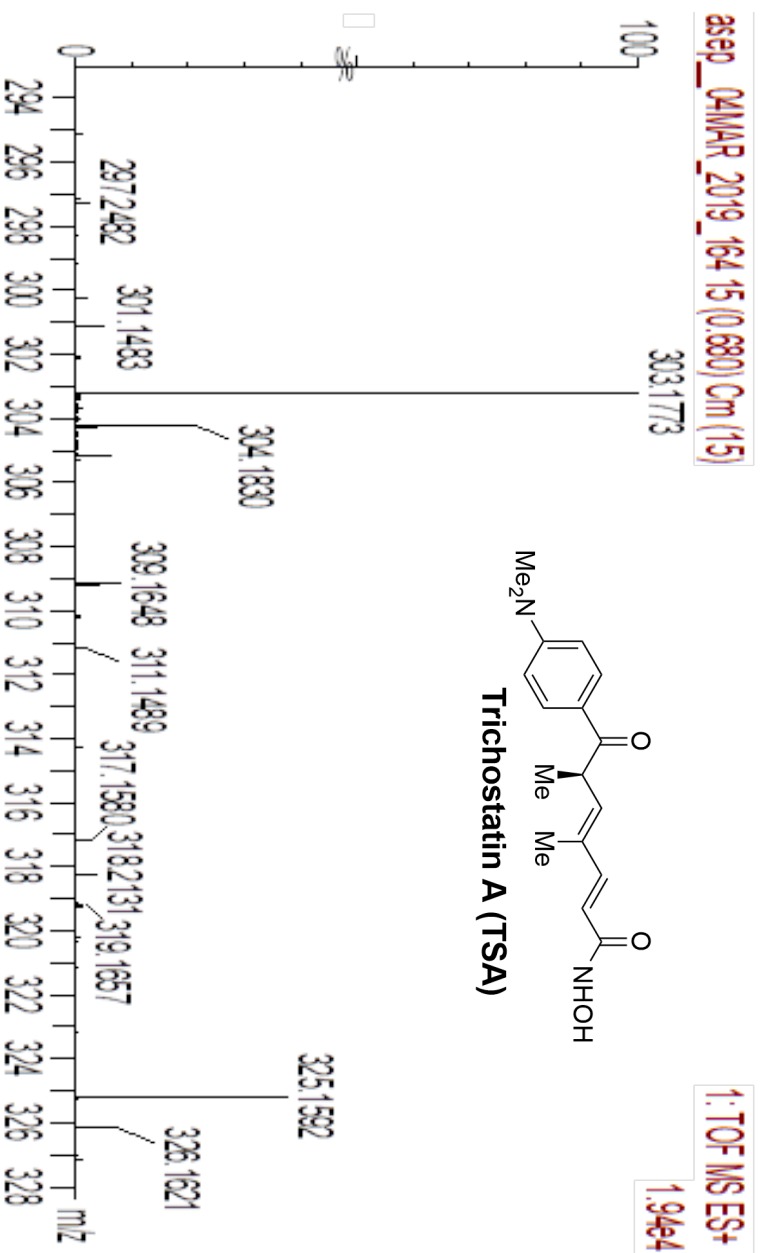
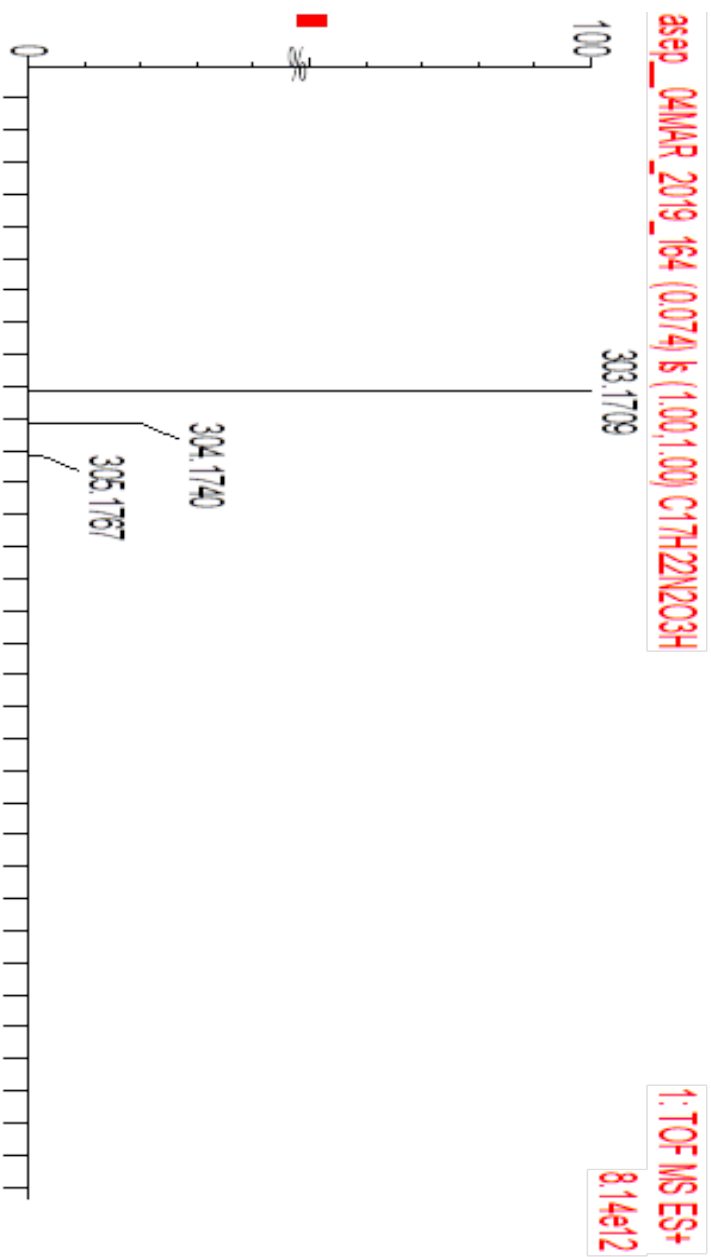
F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300097 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



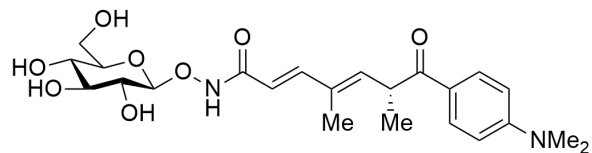


I-PK-276

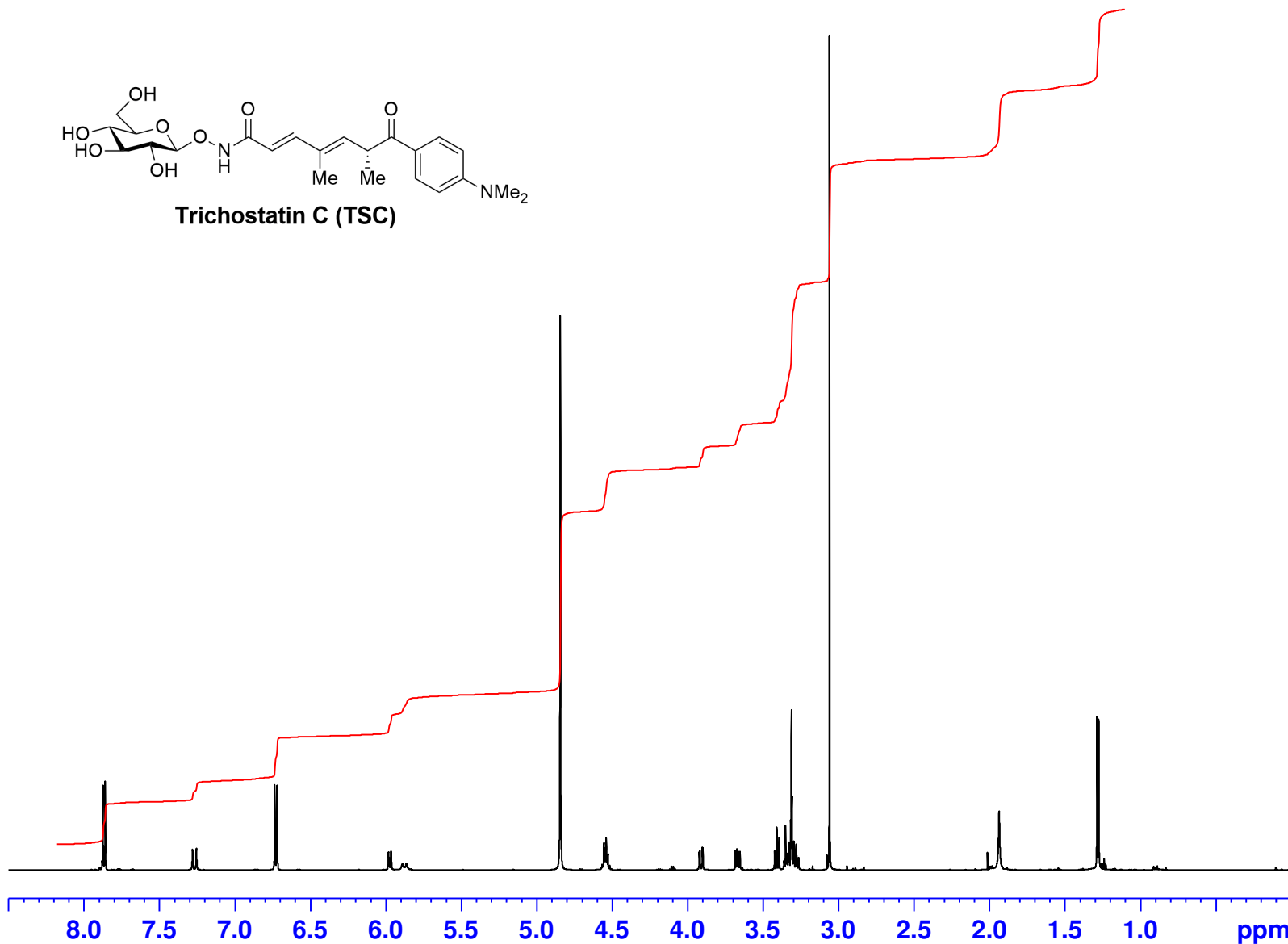
12-04-2019



7.873
7.857
7.279
7.253
6.734
6.719
5.979
5.963
5.887
4.841
4.552
4.541
4.537
4.530
4.525
3.920
3.916
3.901
3.897
3.680
3.670
3.661
3.650
3.422
3.407
3.392
3.360
3.356
3.349
3.344
3.340
3.333
3.330
3.325
3.315
3.313
3.310
3.307
3.305
3.296
3.293
3.278
3.262
3.058
1.933
1.285
1.273



Trichostatin C (TSC)

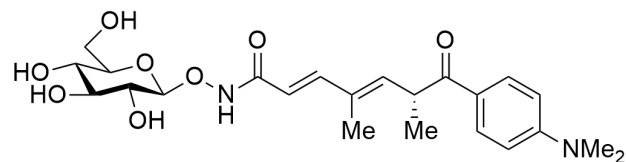


Current Data Parameters
NAME IV-PK-36
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201204
Time 19.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 500
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300114 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



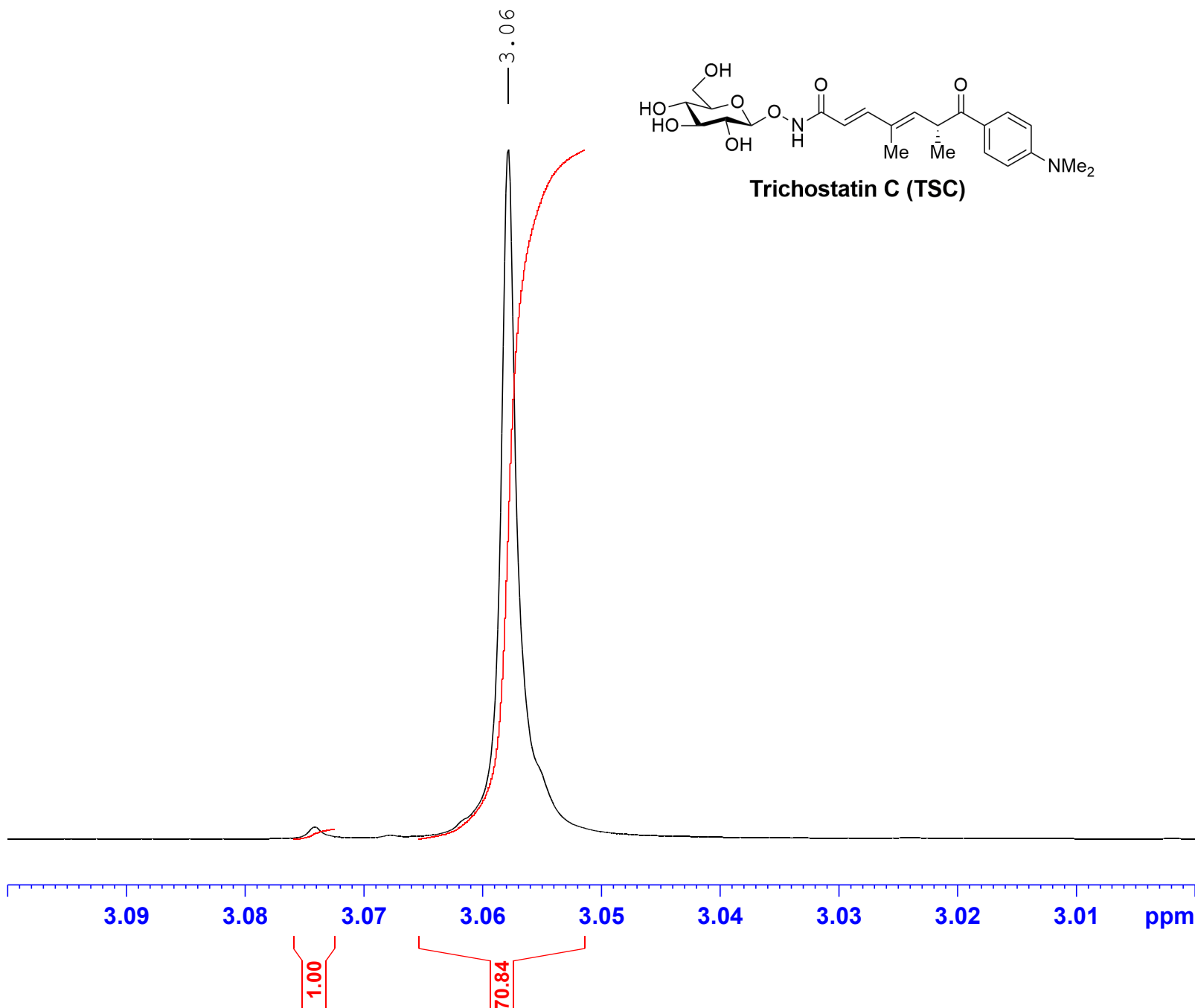
Trichostatin C (TSC)

Current Data Parameters
 NAME IV-PK-36
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201204
 Time_ 19.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 180286
 SOLVENT MeOD
 NS 500
 DS 0
 SWH 18028.846 Hz
 FIDRES 0.100001 Hz
 AQ 4.9999318 sec
 RG 97.5
 DW 27.733 usec
 DE 7.60 usec
 TE 300.0 K
 D1 0.10000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 600.1337060 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 26.60000038 W

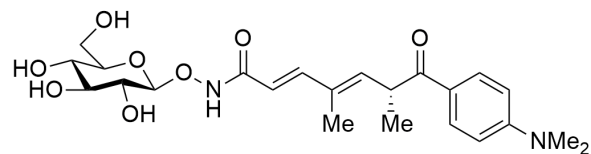
F2 - Processing parameters
 SI 262144
 SF 600.1300115 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



3.920
3.916
3.901
3.897

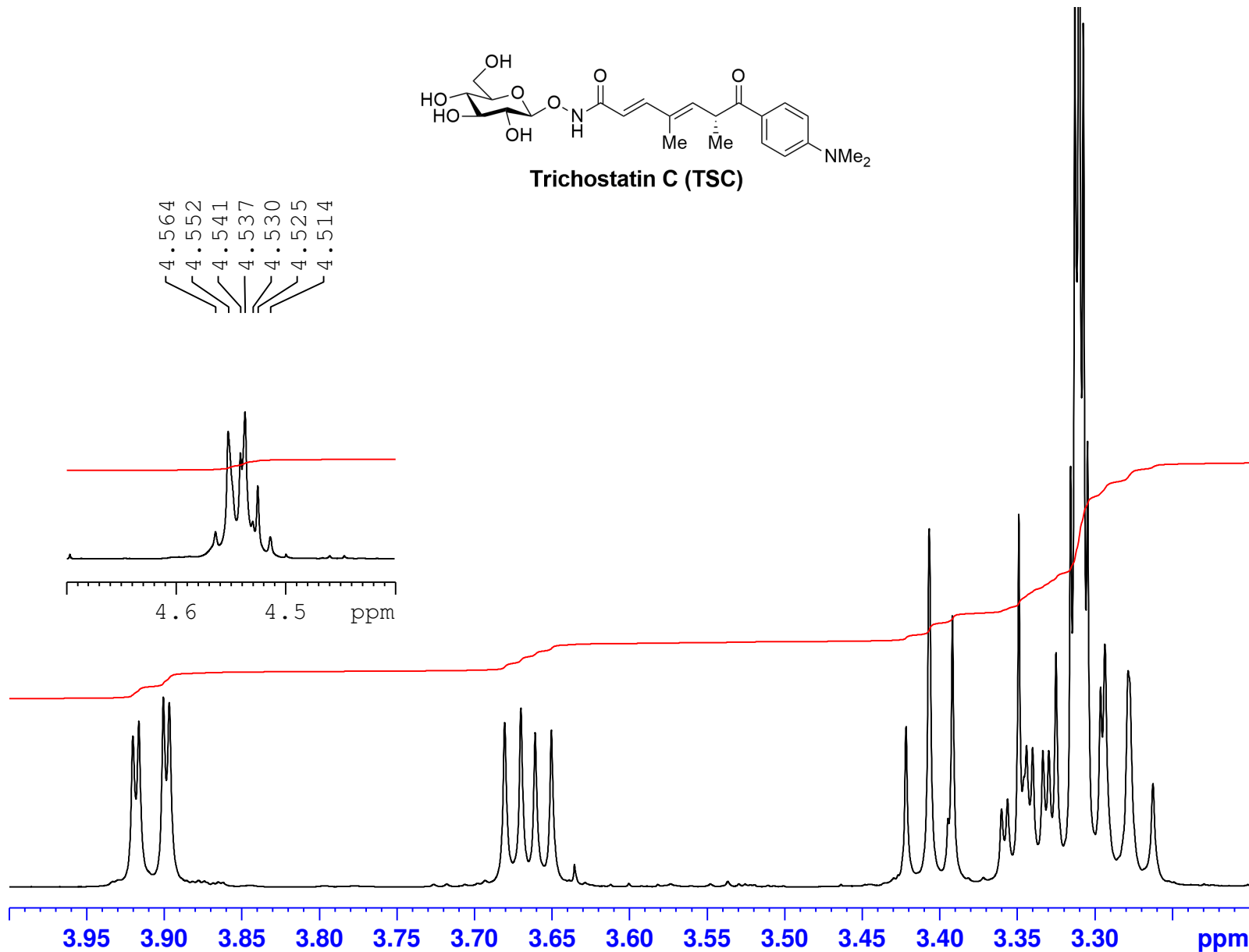
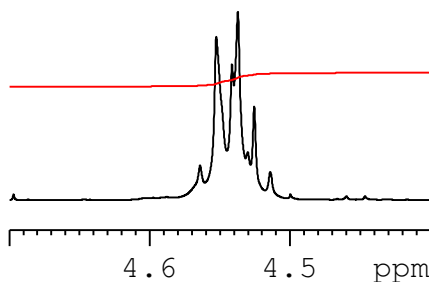
3.680
3.670
3.661
3.650

3.422
3.407
3.392
3.360
3.356
3.349
3.344
3.340
3.333
3.330
3.325
3.315
3.313
3.310
3.307
3.305
3.296



Trichostatin C (TSC)

4.564
4.552
4.541
4.537
4.530
4.525
4.514



Current Data Parameters
NAME IV-PK-36
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201204
Time 19.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 500
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300114 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

7.873
7.857

7.279
7.253

6.734
6.719

5.979
5.963
5.887
5.861

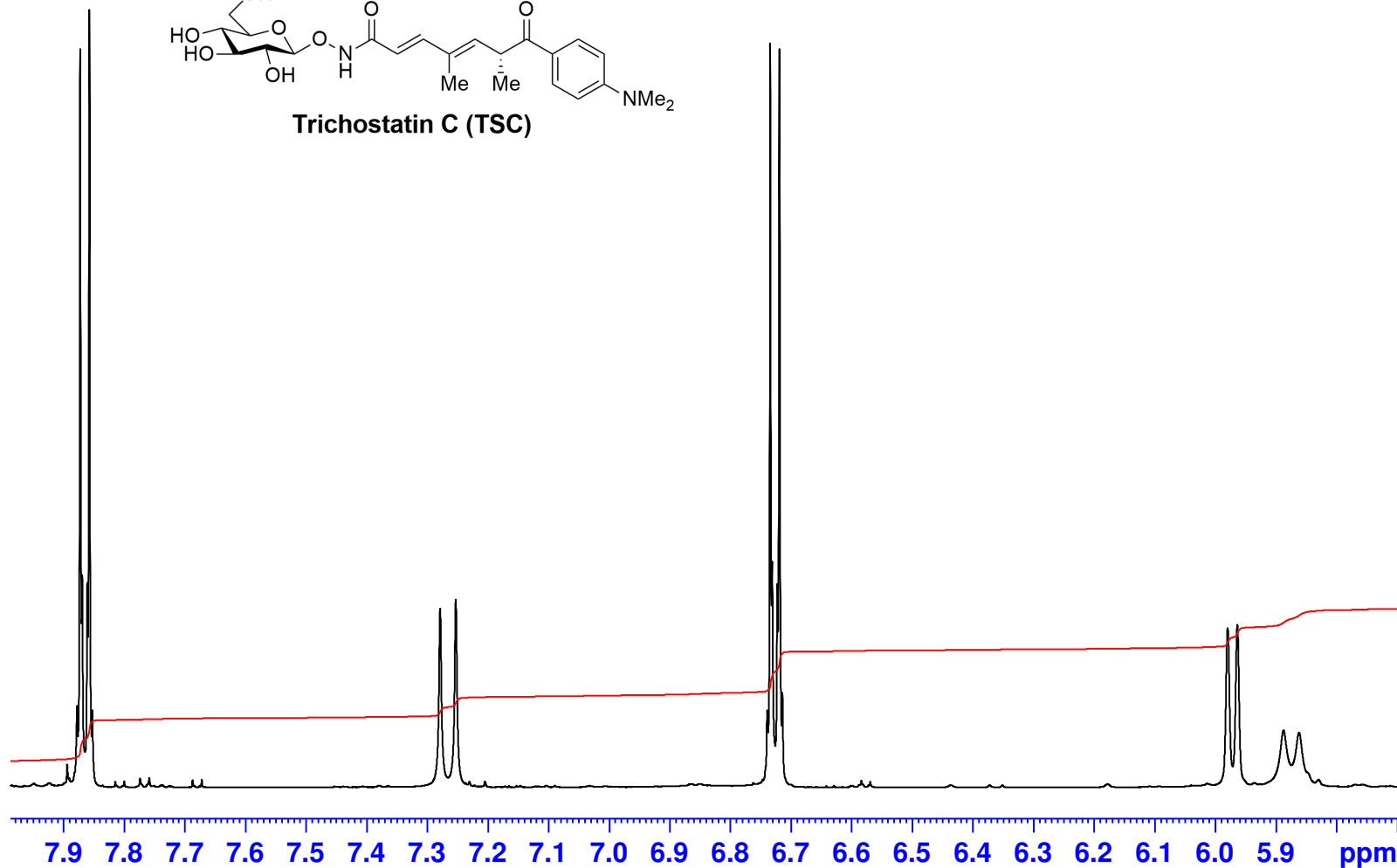
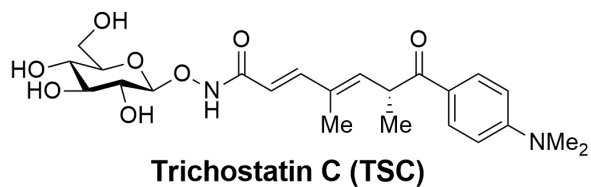


Current Data Parameters
NAME IV-PK-36
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201204
Time 19.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 500
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300114 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



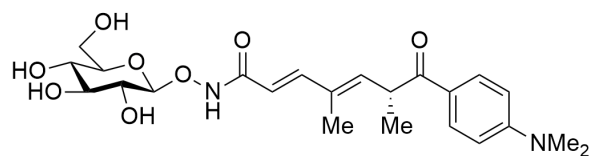


Current Data Parameters
NAME IV-PK-36
EXPNO 10
PROCNO 1

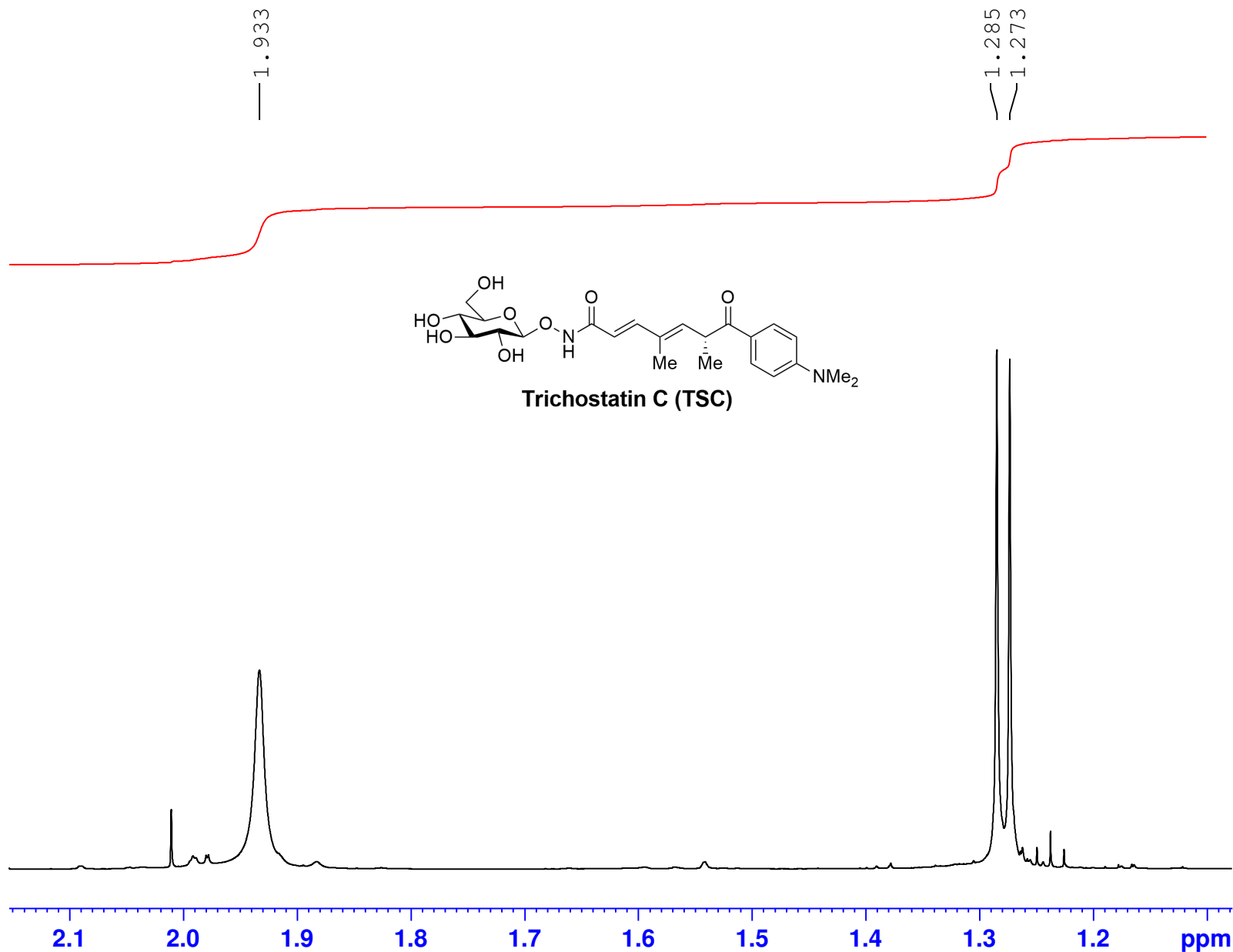
F2 - Acquisition Parameters
Date_ 20201204
Time 19.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 180286
SOLVENT MeOD
NS 500
DS 0
SWH 18028.846 Hz
FIDRES 0.100001 Hz
AQ 4.9999318 sec
RG 97.5
DW 27.733 usec
DE 7.60 usec
TE 300.0 K
D1 0.10000000 sec
TD0 1

===== CHANNEL f1 =====
SF01 600.1337060 MHz
NUC1 1H
P1 10.00 usec
PLW1 26.60000038 W

F2 - Processing parameters
SI 262144
SF 600.1300114 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00



Trichostatin C (TSC)





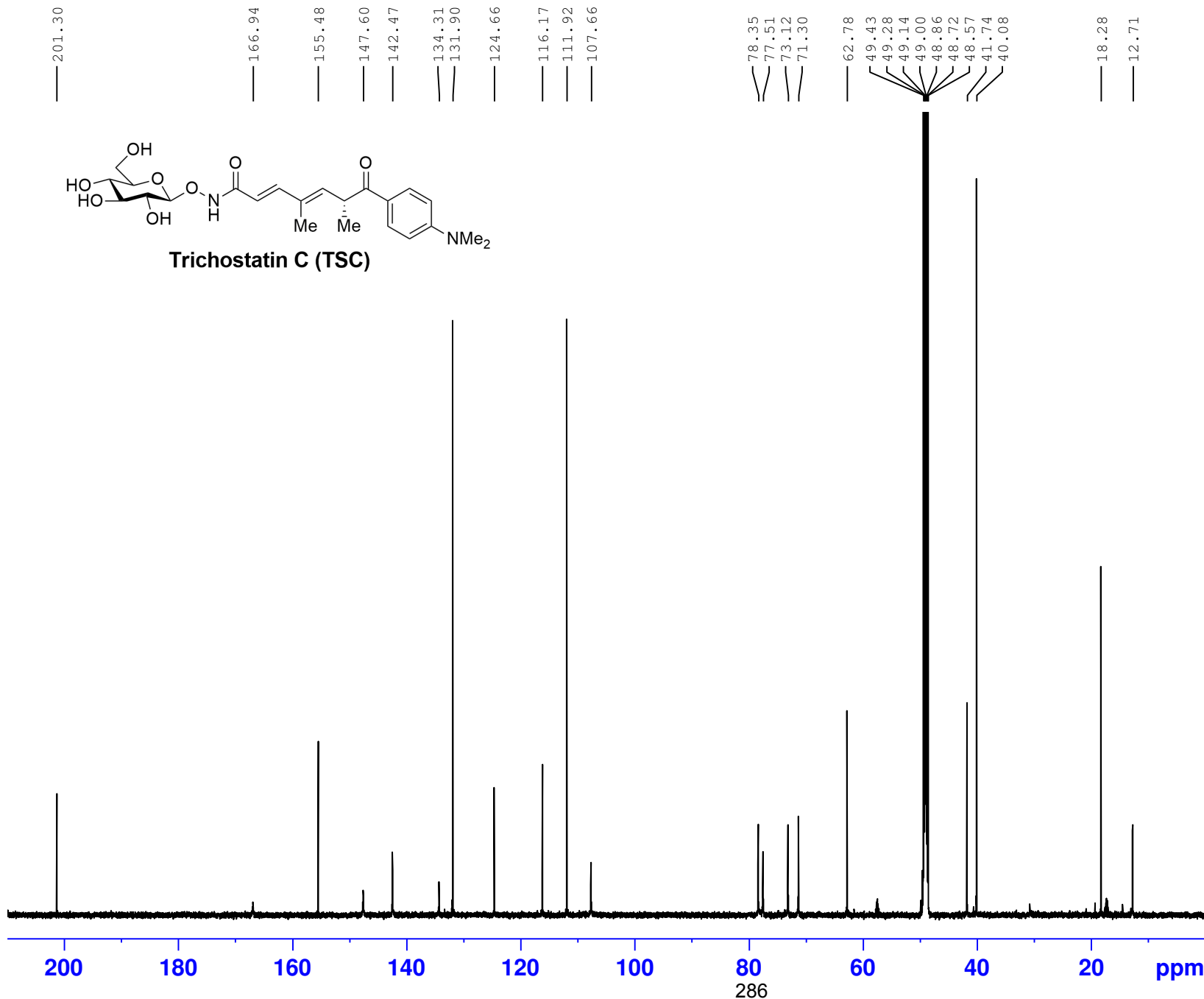
Current Data Parameters
NAME IV-PK-36
EXPNO 11
PROCNO 1

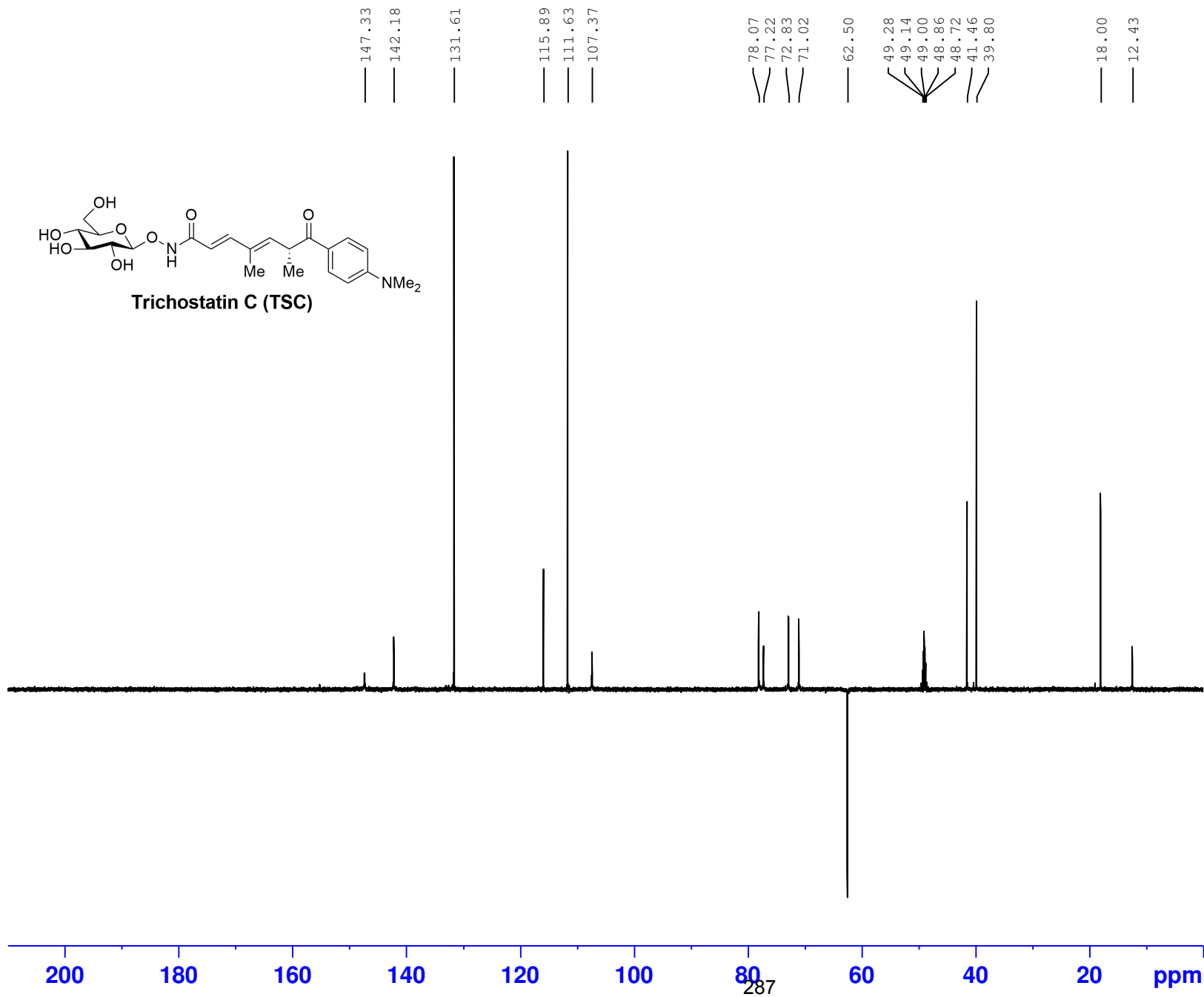
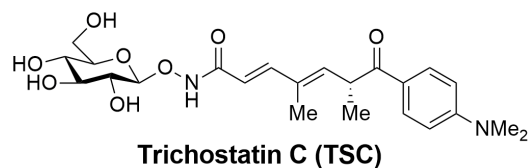
F2 - Acquisition Parameters
Date_ 20201205
Time 3.59
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 119044
SOLVENT MeOD
NS 11000
DS 4
SWH 37500.000 Hz
FIDRES 0.315010 Hz
AQ 1.5872533 sec
RG 186.92
DW 13.333 usec
DE 7.73 usec
TE 300.0 K
D1 1.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 150.9194058 MHz
NUC1 13C
P1 11.80 usec
PLW1 85.00000000 W

===== CHANNEL f2 =====
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG[2] waltz64
PCPD2 80.00 usec
PLW2 27.00000000 W
PLW12 0.43891999 W
PLW13 0.28090999 W

F2 - Processing parameters
SI 131072
SF 150.9025983 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





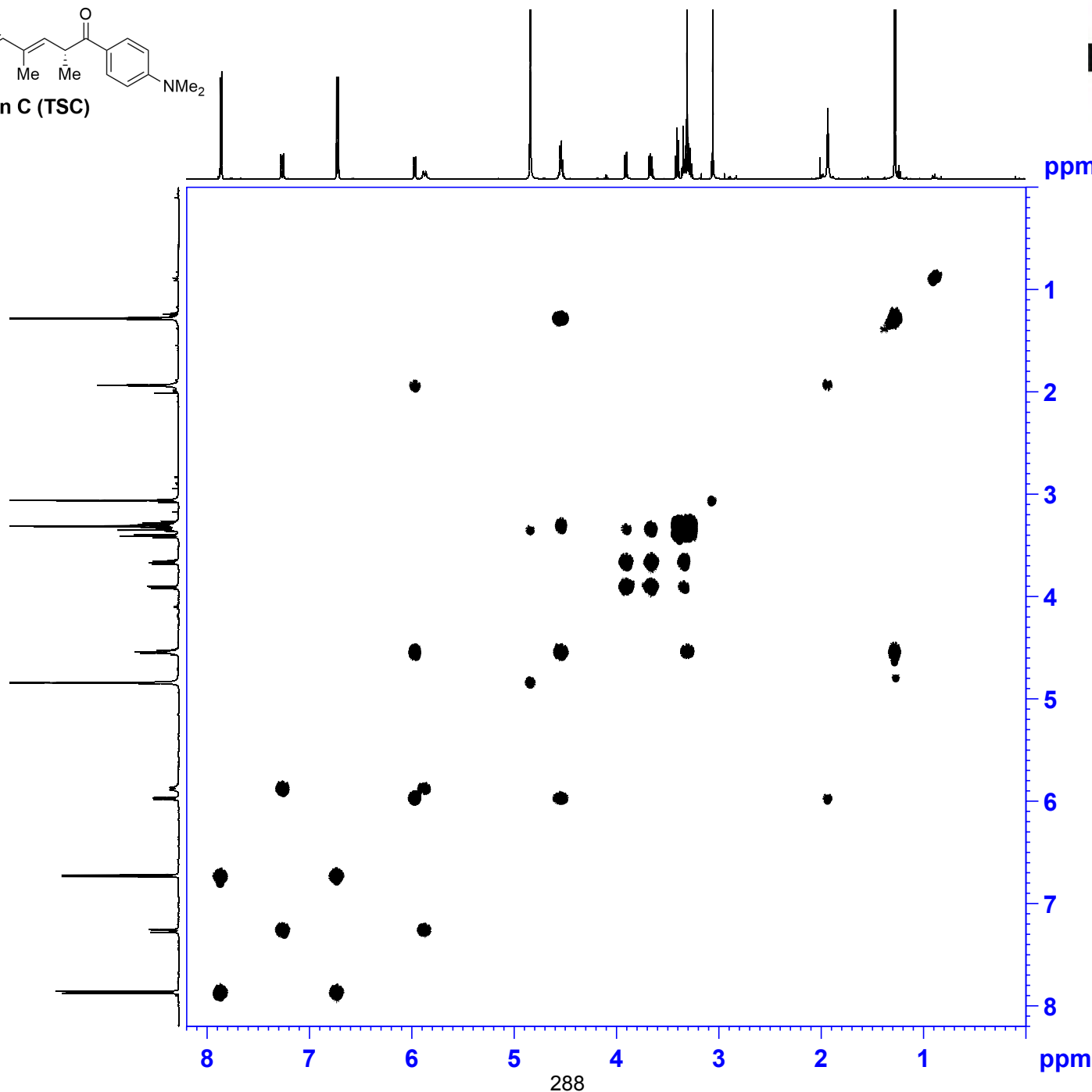
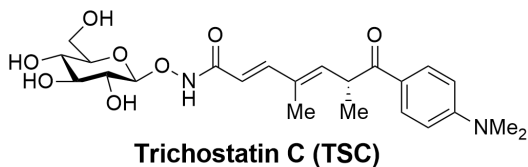
Current Data Parameters
 NAME IV-PK-36
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201205
 Time 7.46
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG deptspl35.b
 TD 119044
 SOLVENT MeOD
 NS 5000
 DS 4
 SWH 35714.285 Hz
 FIDRES 0.300009 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

===== CHANNEL f1 =====
 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

===== CHANNEL f2 =====
 SFO2 600.1324005 MHz
 NUC2 1H
 CPDPRG[2] waltz64
 P3 10.20 usec
 P4 20.40 usec
 PCPD2 80.00 usec
 PLW2 27.00000000 W
 PLW12 0.43891999 W

F2 - Processing parameters
 SI 131072
 SF 150.9026411 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
 NAME IV-PK-35
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201203
 Time_ 4.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT MeOD
 NS 2
 DS 8
 SWH 6393.862 Hz
 FIDRES 3.122003 Hz
 AQ 0.1601536 sec
 RG 186.92
 DW 78.200 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.90169531 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 IN0 0.00015640 sec

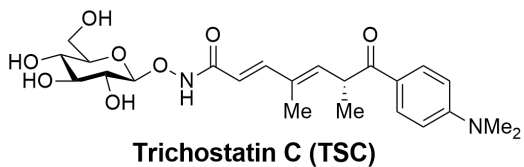
===== CHANNEL f1 =====
 SF01 600.1320220 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 3.93490005 W

===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 600.132 MHz
 FIDRES 49.952045 Hz
 SW 10.654 ppm
 FnMODE QF

F2 - Processing parameters
 SI 1024
 SF 600.1300110 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300130 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0



Current Data Parameters
 NAME IV-PK-35
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201203
 Time 4.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG cosygpmfppqf
 TD 2048
 SOLVENT MeOD
 NS 2
 DS 8
 SWH 6393.862 Hz
 FIDRES 3.122003 Hz
 AQ 0.1601536 sec
 RG 186.92
 DW 78.200 usec
 DE 6.50 usec
 TE 300.0 K
 D0 0.00000300 sec
 D1 0.90169531 sec
 D11 0.03000000 sec
 D12 0.00002000 sec
 D13 0.00000400 sec
 D16 0.00020000 sec
 INO 0.00015640 sec

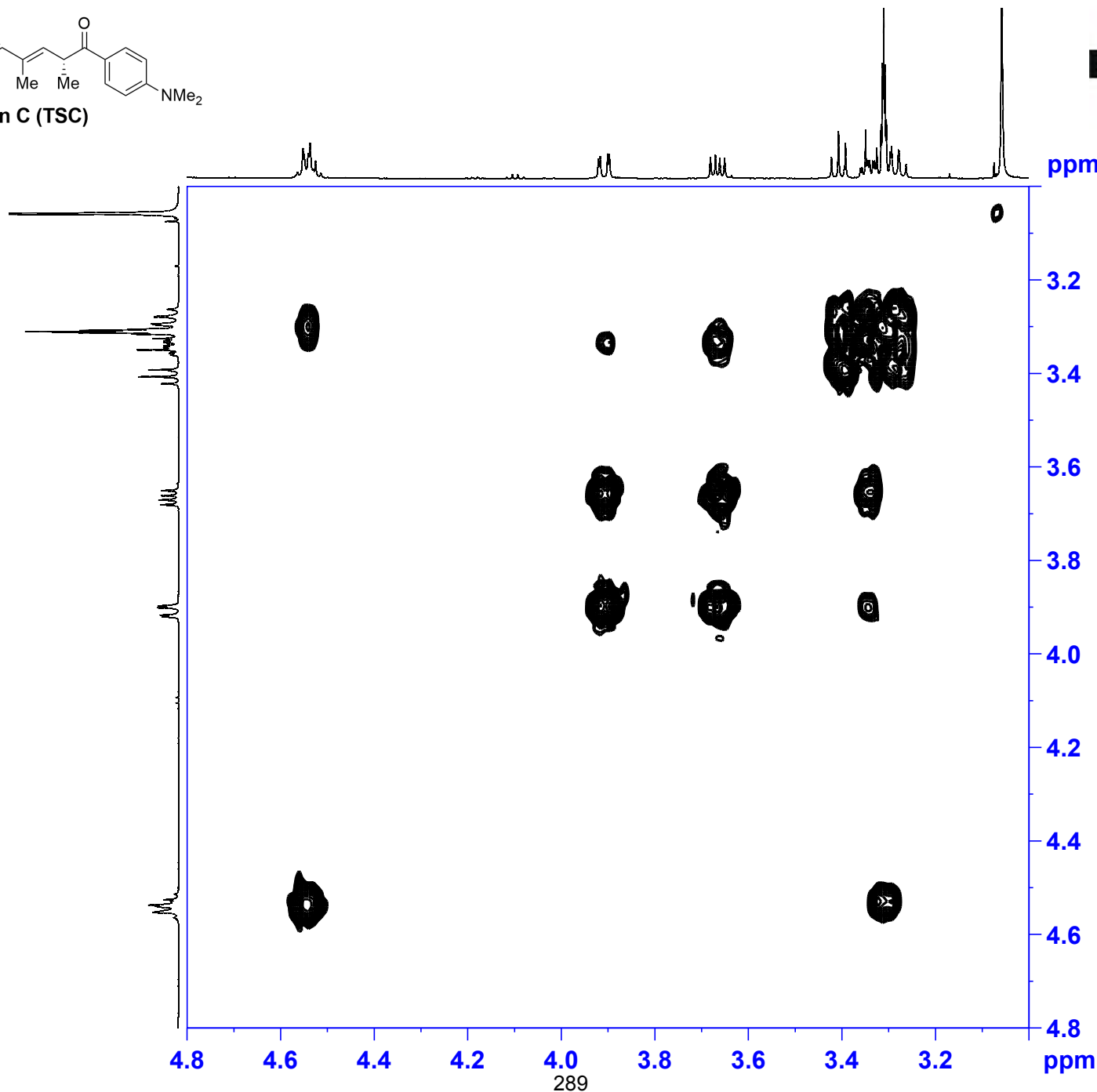
===== CHANNEL f1 =====
 SF01 600.1320220 MHz
 NUC1 1H
 P1 10.00 usec
 P17 2500.00 usec
 PLW1 26.60000038 W
 PLW10 3.93490005 W

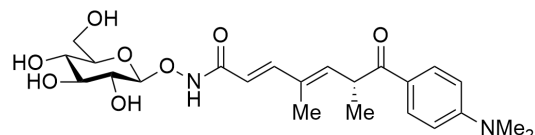
===== GRADIENT CHANNEL =====
 GPNAM[1] SMSQ10.100
 GPNAM[2] SMSQ10.100
 GPNAM[3] SMSQ10.100
 GPZ1 16.00 %
 GPZ2 12.00 %
 GPZ3 40.00 %
 P16 1000.00 usec

F1 - Acquisition parameters
 TD 256
 SF01 600.132 MHz
 FIDRES 49.952045 Hz
 SW 10.654 ppm
 FnmODE QF

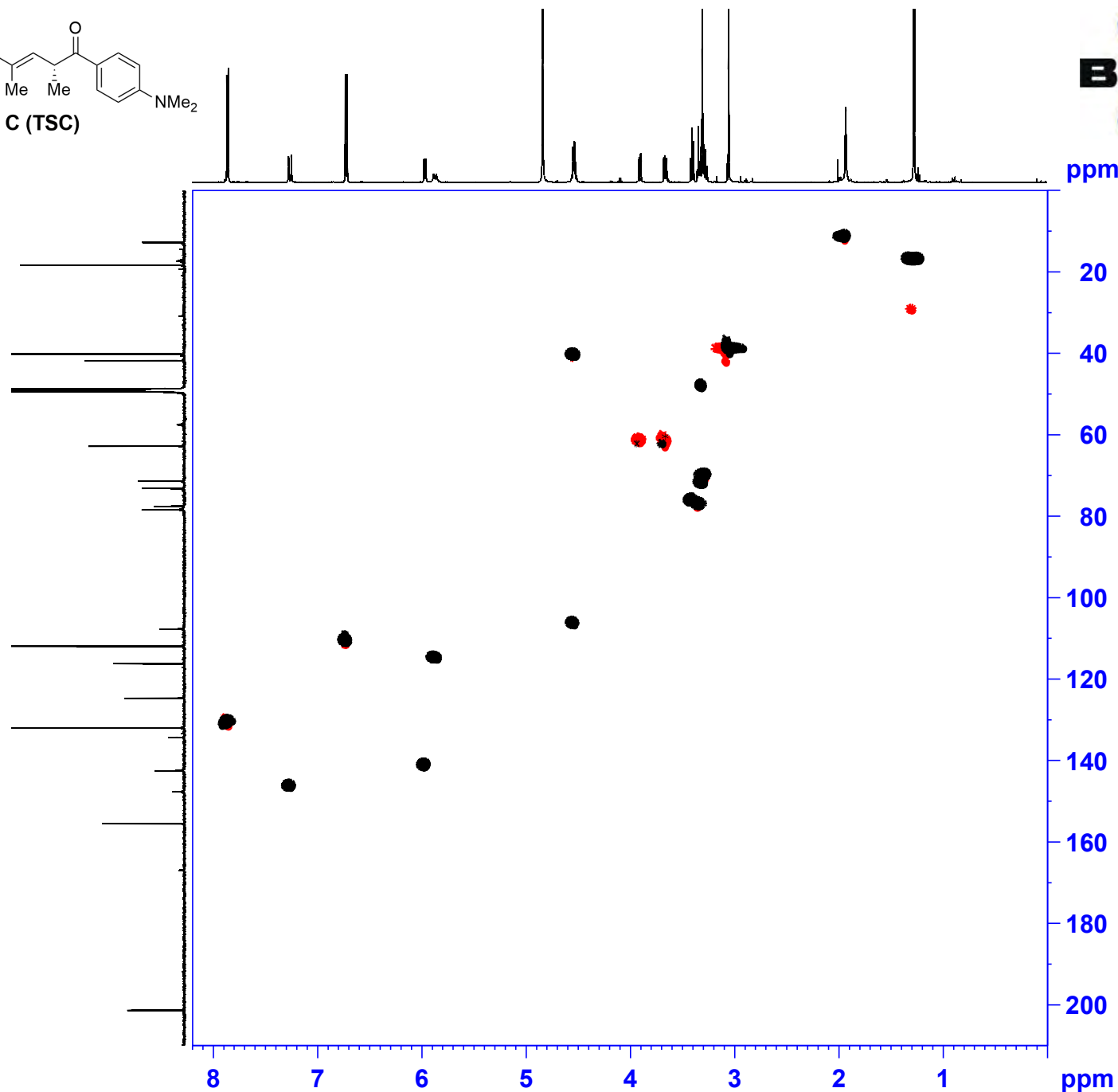
F2 - Processing parameters
 SI 1024
 SF 600.1300110 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 600.1300130 MHz
 WDW SINE
 SSB 0
 LB 0 Hz
 GB 0





Trichostatin C (TSC)



Current Data Parameters
NAME IV-PK-36
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date 20201205
Time 7.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcedetgpgp.3
TD 1024
SOLVENT MeOD
NS 2
DS 32
SWH 7211.539 Hz
FIDRES 7.042518 Hz
AQ 0.0709973 sec
RG 186.92
DW 69.333 usec
DE 6.50 usec
TE 300.2 K
CHST2 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

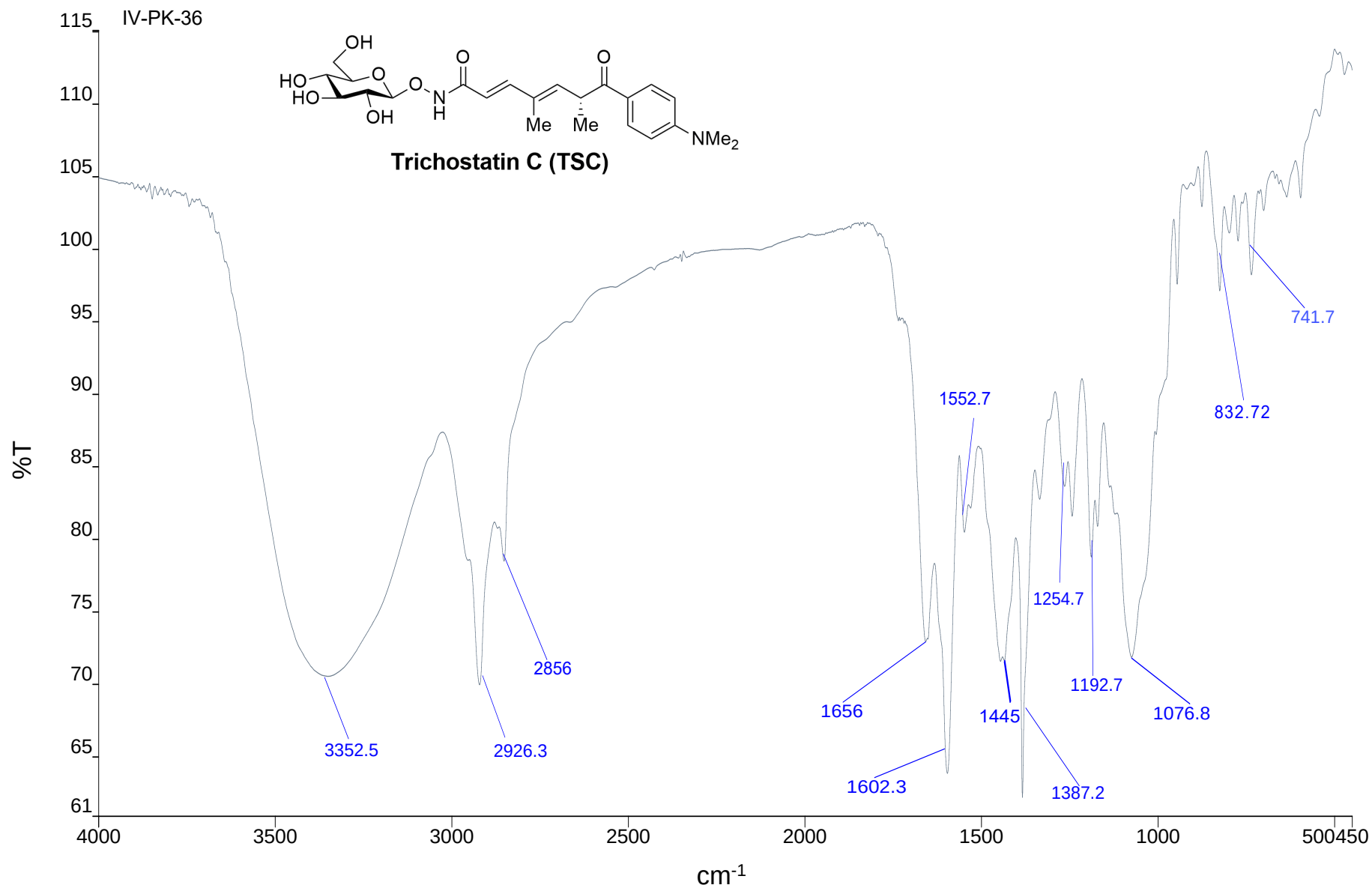
===== CHANNEL f1 =====
SFO1 600.1328223 MHz
NUC1 1H
P1 10.00 usec
P2 20.00 usec
P28 0 usec
PLW1 26.60000038 W

===== CHANNEL f2 =====
SFO2 150.9178988 MHz
NUC2 13C
CPDPRG[2] garp4
P3 11.80 usec
P14 500.00 usec
P31 1730.00 usec
PCPD2 65.00 usec
PLW0 0 W
PLW2 85.00000000 W
PLW12 2.80130005 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

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPZ1 80.00 %
GPZ2 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 600.1328223 MHz



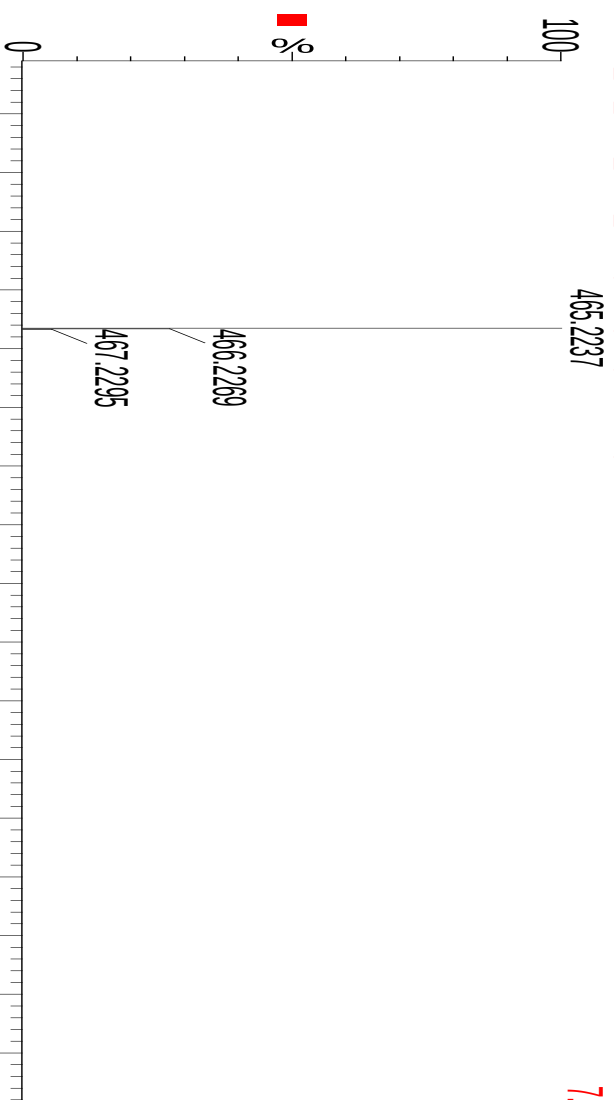
IV-PK-35

07-12-2020

ASEP_11_NOV_2020_330 (0.070) Is (1.00,1.00) C₂₃H₃₂N₂O₈H

1: TOF MS ES+

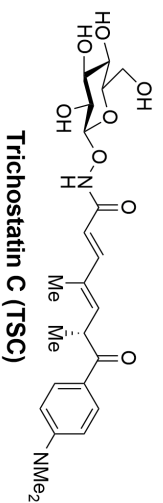
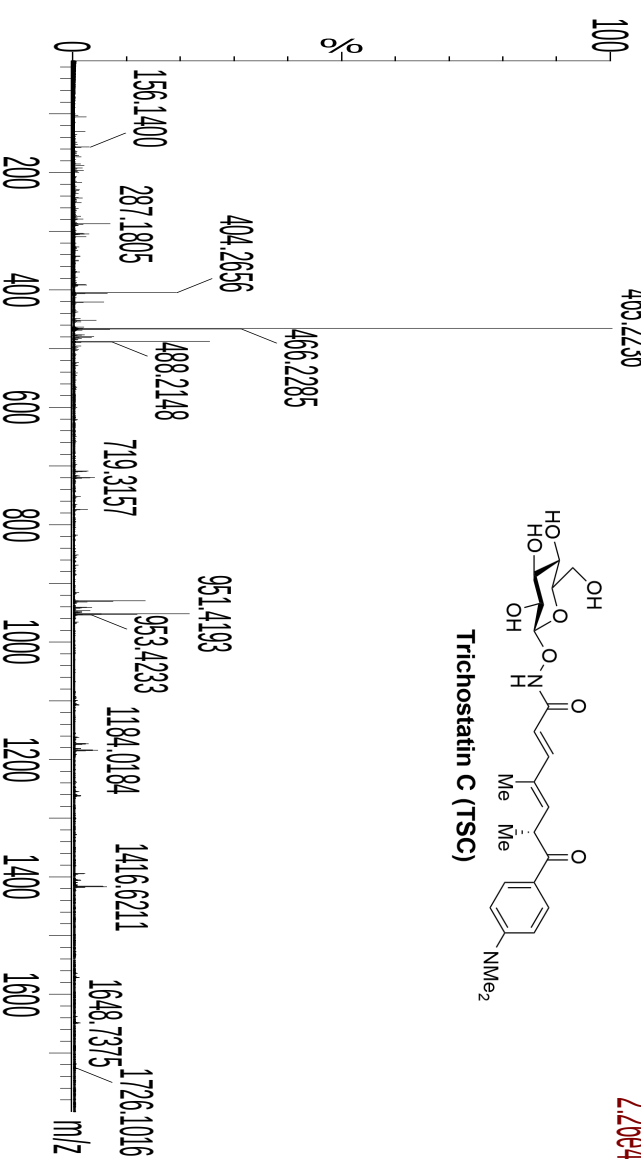
7.51e12



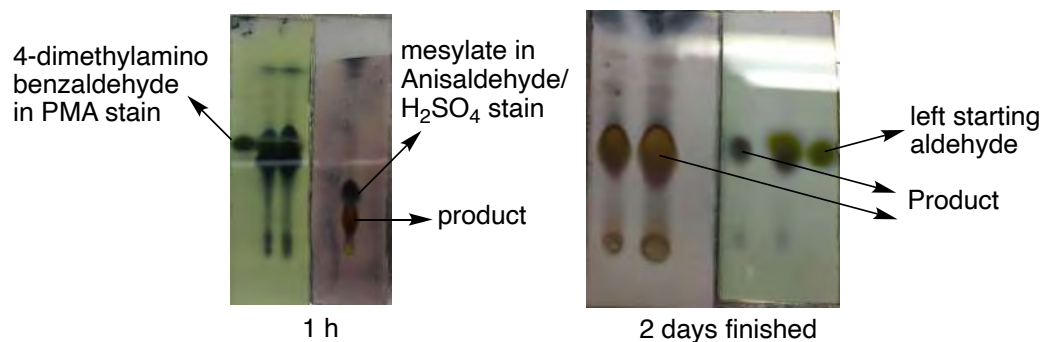
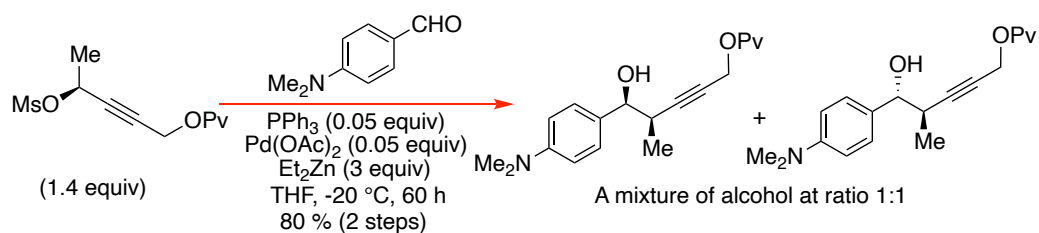
ASEP_11_NOV_2020_330 7 (0.318) Cm (7.10)

1: TOF MS ES+

2.26e4

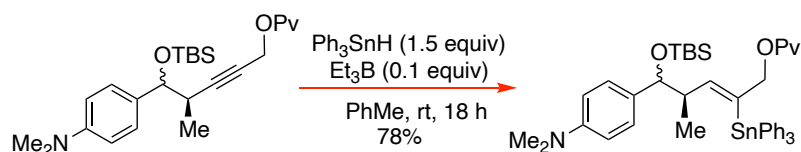


Marshall's allenylzinc addition



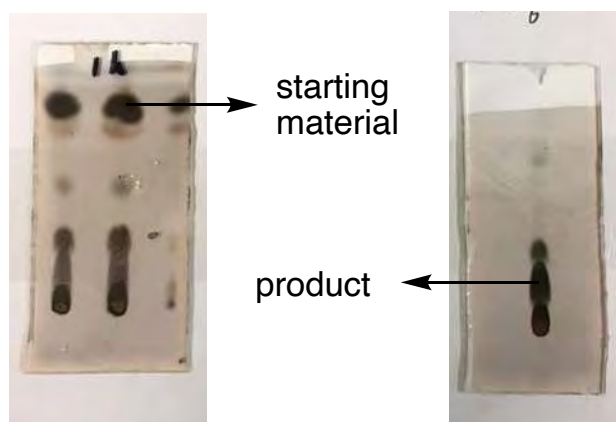
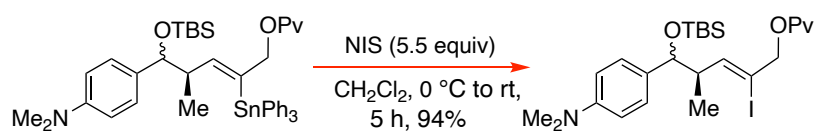
TLC run on 8:1 hex/EtOAc *2, then 3:1 hex/EtOAc or only 3:1 hex/EtOAc; Product was in orange with Anisaldehyde/ H_2SO_4 stain; 4-dimethylamino benzaldehyde little slower-moving than mesylate was in white not clearly shown with Anisaldehyde/ H_2SO_4 stain.

Hydrostannation with Pivaloyl protected propargylic alcohol



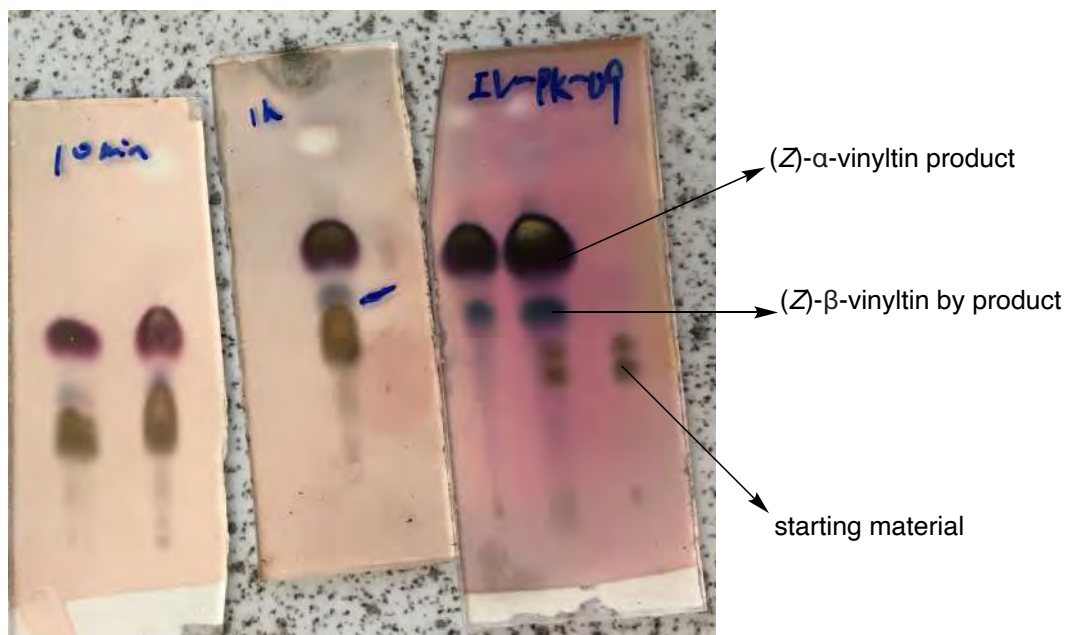
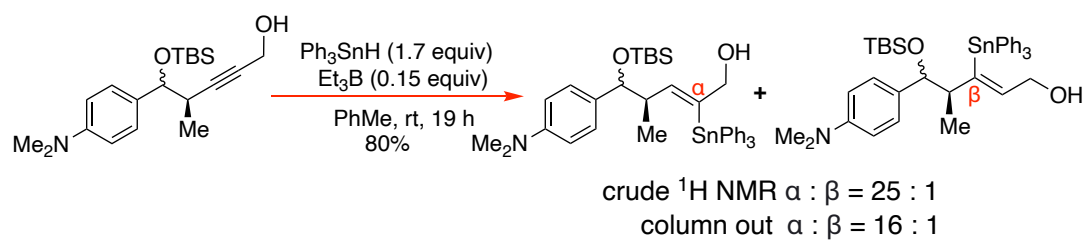
TLC run on 10:1 hex/EtOAc with Anisaldehyde/ H_2SO_4 stain

Sn-I exchange with Pivaloyl protected propargylic alcohol.



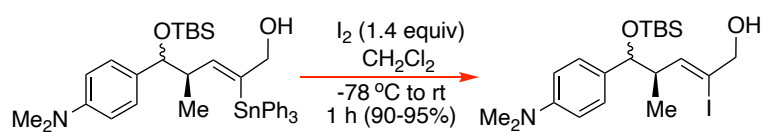
TLC run on 3:1 hex/EtOAc with Anisaldehyde/ H_2SO_4 stain.

Hydrostannation with propargylic alcohol

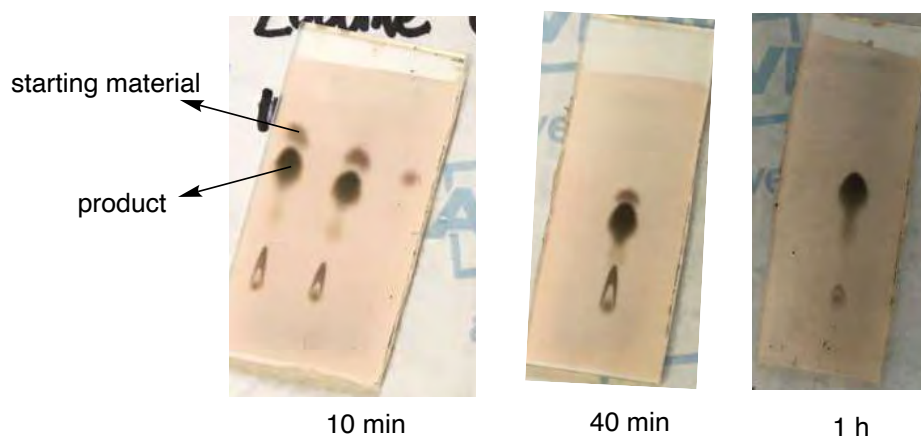


TLC run on 4:1 hex/EtOAc with Anisaldehyde/ H_2SO_4 stain

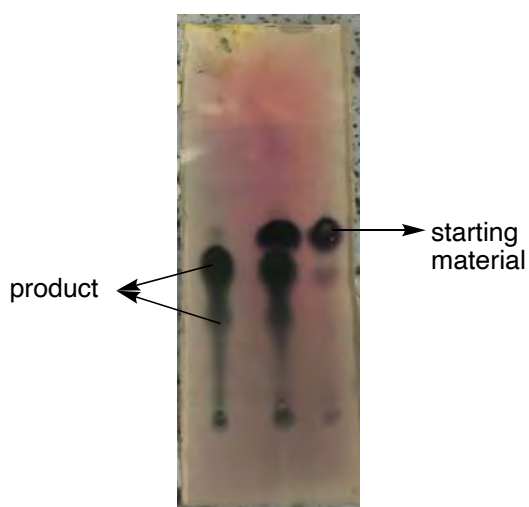
Sn-I exchange with propargylic alcohol.



For a single isomer vinyl iodide from one of the single isomer (Z)- α -triphenylvinyltin product, TLC gives clearly on spot. For the mixture, TLC gives two spots of the vinyl iodide compound.

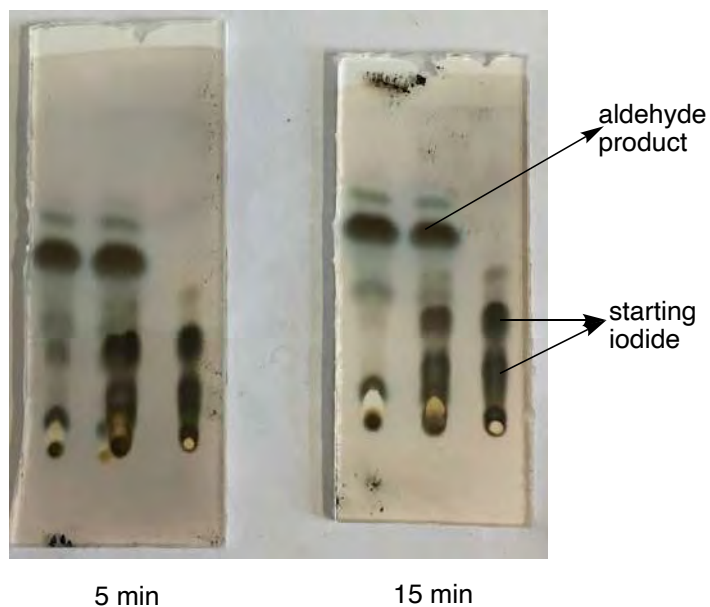
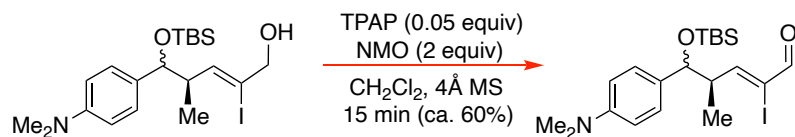


The mixture



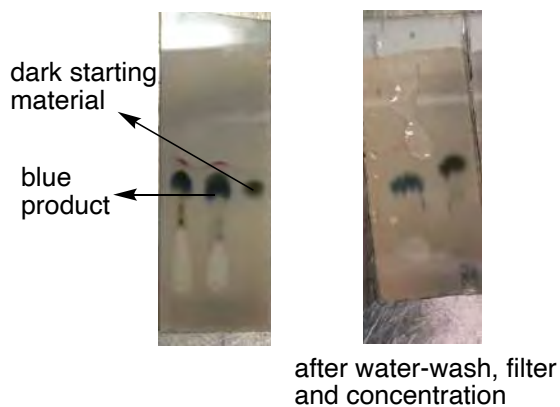
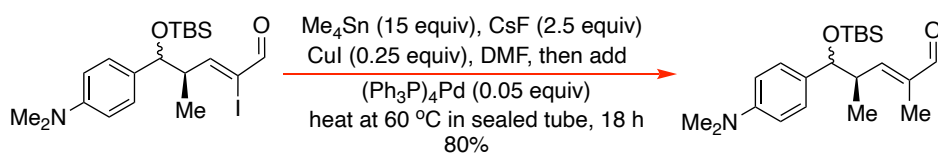
TLC run on 4:1 hex/EtOAc with Anisaldehyde/ H_2SO_4 stain

Ley-Griffith oxidation of the vinyl iodide.



TLC run on 4:1 hex/EtOAc with Anisaldehyde/ H_2SO_4 stain.

Baldwin-Lee Stille cross coupling



TLC run on 3 : 1 hex/ CH_2Cl_2 in Anisaldehyde/ H_2SO_4 stain.