

Supporting Information

An Expedient Enantioselective Synthesis of the Δ^4 -Oxocene Cores of (+)-Laurencin and (+)-Prelaureatin

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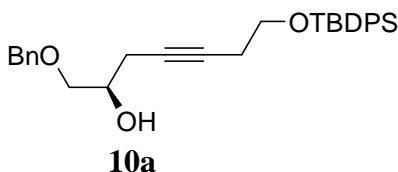
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1. General materials and methods. Infrared (IR) spectra were obtained using Thermo-Nicolet 6700 infrared spectrometer. Proton and carbon nuclear magnetic resonance (^1H and ^{13}C NMR) spectra were recorded on the following instruments: Bruker model Avance-III (^1H at 500 MHz, ^{13}C at 125 MHz), Bruker model Avance (^1H at 400 MHz, ^{13}C at 100 MHz), and Bruker model Avance-III (^1H at 300 MHz, ^{13}C at 75 MHz). Optical rotations were determined using a Perkin-Elmer 341 polarimeter. High resolution mass spectroscopic data were obtained in ESI mode using Thermo LTQ Orbitrap. All chemicals and solvents were purchased from commercial sources and used directly without further treatment.

2. Synthesis and characterization

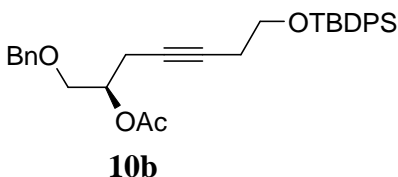
(*R*)-1-Benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-hept-4-yn-2-ol (**10a**)



To a solution of propargyl alkyne **9** (18.79 g, 60.90 mmol) in THF (200 mL) at $-78\text{ }^{\circ}\text{C}$ was added a solution of *n*-BuLi (1.6 M in THF, 16.95 mL, 60.90 mmol) dropwise. The mixture was stirred at $-78\text{ }^{\circ}\text{C}$ for 15 min and followed by addition of $\text{BF}_3\cdot\text{OEt}_2$ (7.49 mL, 60.90 mmol). The resulting mixture was stirred for 10 min and followed by addition of a solution of (-)-(*R*)-benzyl glycosidic ether **8** (5.00 g, 30.45 mmol). The reaction mixture was stirred further at $-78\text{ }^{\circ}\text{C}$ for 1 h before it was quenched with saturated aq. NH_4Cl solution. The reaction mixture was allowed to warm to room temperature and diluted with ether. The organic layer was separated, washed with H_2O , brine, dried over MgSO_4 , and concentrated. The crude residue was purified by flash column chromatography on silica gel (10 – 20% EtOAc in hexanes) to afford the product **10a** (12.09 g, 84% yield) as a colorless oil:

$[\alpha]_D^{25} = -7.0$ (*c* 7.02, CHCl_3); ^1H NMR (400 MHz, CDCl_3) δ 7.69 – 7.65 (m, 4 H), 7.45 – 7.25 (m, 11 H), 4.52 (s, 2 H), 3.92 – 3.85 (m, 1 H), 3.73 (t, $J = 7\text{ Hz}$, 2 H), 3.57 (dd, $J = 4, 9\text{ Hz}$, 1 H), 3.46 (dd, $J = 4, 9\text{ Hz}$, 1 H), 2.47 – 2.35 (m, 5 H), 1.05 (s, 9 H); IR (neat) 3447, 3069, 2931, 2857, 1738, 1472, 1454, 1389, 1362, 1243, 1029, 941, 823 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{30}\text{H}_{36}\text{O}_3\text{Si}$ [$\text{M} + \text{Na}^+$] 495.2326 found 495.2320.

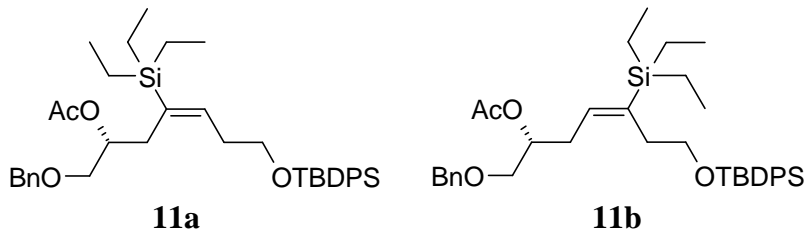
2-Acetyloxy-(*R*)-1-benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-hept-4-yne (**10b**)



To a solution of propargyl alcohol **10a** (6.70 g, 14.17 mmol) in CH_2Cl_2 (100 mL) at $0\text{ }^{\circ}\text{C}$ was added Et_3N (4.98 mL, 35.43 mmol) and 4-DMAP (5 mg, 0.04 mmol), followed by the dropwise addition of Ac_2O (1.47 mL, 15.59 mmol). The reaction was stirred from $0\text{ }^{\circ}\text{C}$ to room temperature over 24 h before it was quenched with saturated aq. NH_4Cl solution. The reaction mixture was diluted with ether. The organic layer was separated, washed with H_2O , brine, dried over MgSO_4 , and concentrated. The crude residue was purified by flash column chromatography on silica gel (10 – 20% EtOAc in hexanes) to afford the product **10b** (5.82 g, 80% yield) as a colorless oil:

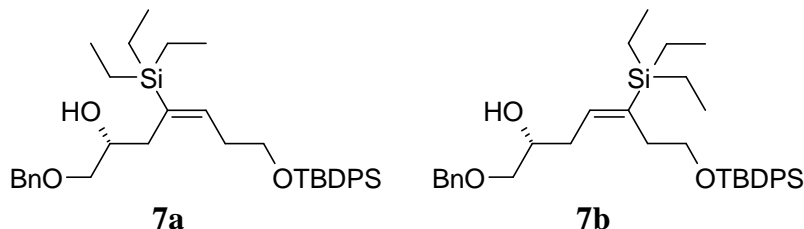
$[\alpha]_D^{25} = -12.2$ (c 7.85, CHCl_3); ^1H NMR (400 MHz, CDCl_3) δ 7.68 – 7.66 (m, 4 H), 7.44 – 7.35 (m, 6 H), 7.33 – 7.23 (m, 4 H), 5.30 – 5.00 (m, 1 H), 4.52 (dd, $J = 12.1, 8.2$ Hz, 2 H), 3.73 (t, $J = 11.3$ Hz, 2 H), 3.61 (d, $J = 2.4$ Hz, 2 H), 2.57 – 2.43 (m, 2 H), 2.41 – 2.36 (m, 2 H), 2.10 (s, 3 H), 2.03 (s, 9 H); ^{13}C NMR (100 Mz, CDCl_3) δ 170.8, 138.5, 138.4, 134.1, 130.1, 128.8, 128.1, 128.0, 79.7, 77.6, 76.5, 73.6, 71.5, 70.0, 63.1, 27.2, 23.3, 21.5, 21.5, 19.6; IR (neat) 3070, 3030, 2931, 2858, 1740, 1589, 1496, 1472, 1454, 1428, 1373, 1237, 1110, 1057, 1028, 960, 916, 823, 737 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{32}\text{H}_{38}\text{O}_4\text{Si}$ [$\text{M} + \text{Na}^+$] 537.2432 found 537.2421.

2-Acetyloxy-(*E,R*)-1-Benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-4-triethylsilyl-hept-4-ene (11a)
and
2-Acetyloxy-(*R,E*)-1-Benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-5-triethylsilyl-hept-4-ene (11b)



To a flask containing alkyne **10b** (9.80 g, 20.98 mmol) and Et_3SiH (4.02 mL, 25.18 mmol) at room temperature was added $\text{H}_2\text{PtCl}_6 \cdot \text{H}_2\text{O}$ catalyst (52 mg, 0.12 mmol). The resulting mixture was heated at 80 $^\circ\text{C}$ for 40 min before it was cooled to room temperature and purified by flash column chromatography on silica gel (1 – 2% EtOAc in hexanes) to provide a mixture of products (13.08 g, 99% yield, **11a** : **11b** = 1.8 : 1) as colorless oils. This mixture was used directly in the next step.

(*R,E*)-1-Benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-5-triethylsilyl-hex-4-en-2-ol (7a)
and
(*R,E*)-1-Benzyloxy-7-[(*tert*-butyldiphenylsilyl)oxy]-4-triethylsilyl-hex-4-en-2-ol (7b)



To a solution of acetates **11a** and **11b** (5.98 g, 9.48 mmol) in CH_2Cl_2 (100 mL) at -78 $^\circ\text{C}$ was added dropwise a solution of DIBAL-H (1.0 M in toluene, 14.22 mL, 1.50 mmol). The reaction was stirred at the same temperature for 1 h before it was quenched with *i*-

PrOH. The reaction mixture was diluted with EtOAc and 25% aq. Rocelle's salt solution and stirred at room temperature over a period of 3 h. The organic layer was separated, washed with H₂O, brine, dried over MgSO₄ and concentrated. The crude residue was purified by flash column chromatography on silica gel (10% EtOAc in hexanes) to provide a regioisomeric mixture of alcohols **7a** and **7b** (5.26 g, 94% yield, **7a** : **7b** = 1.8 : 1) as a colorless oil. A portion of this product mixture was re-purified using the same condition above to give **7a** first and then the more polar **7b**:

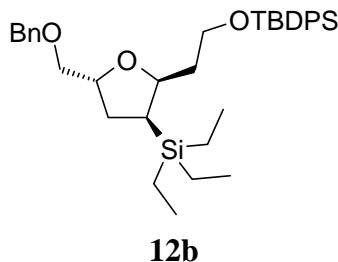
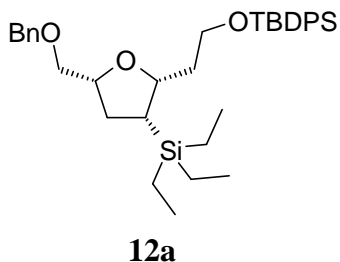
7a: $[\alpha]_D^{25} = 8.8$ (c 9.72, CHCl₃); ¹H NMR (400 MHz, CDCl₃) δ 7.68 – 7.66 (m, 4 H), 7.43 – 7.26 (m, 11 H), 5.98 (t, *J* = 6.8 Hz, 1 H), 4.54 (dd, *J* = 17.5, 5.6 Hz, 2 H), 3.84 – 3.77 (m, 1 H), 3.69 (t, *J* = 6.3 Hz, 2 H), 3.48 – 3.35 (m, 2 H), 2.55 – 2.41 (1 H), 2.40 – 2.26 (m, 3 H), 1.04 (s, 9 H), 0.91 (t, *J* = 7.9 Hz, 9 H), 0.58 (q, *J* = 3.8 Hz, 6 H); ¹³C NMR (100 Mz, CDCl₃) δ 141.9, 138.6, 136.0, 135.8, 134.2, 130.0, 128.8, 128.1, 128.1, 128.0, 74.6, 73.8, 70.5, 63.8, 34.6, 32.7, 27.2, 19.5, 7.8, 3.7; IR (neat) 3584, 3463, 3070, 2953, 2872, 1608, 1589, 1496, 1472, 1456, 1388, 1237, 1007, 939, 823 cm⁻¹; HRMS (EI) calcd for C₃₆H₅₂O₃Si₂ [M + H] 589.3527 found 589.3533.

7b: $[\alpha]_D^{25} = -3.1$ (c 11.70, CHCl₃); ¹H NMR (400 MHz, CDCl₃) δ 7.68 – 7.63 (m, 4 H), 7.42 – 7.27 (m, 11 H), 5.73 (t, *J* = 6.9 Hz, 1 H), 4.51 (s, 2 H), 3.80 – 3.71 (m, 1 H), 3.52 – 3.43 (m, 2 H), 3.37 (dd, *J* = 9.5, 3.2 Hz, 1 H), 3.24 (dd, *J* = 9.4, 7.6 Hz, 1 H), 2.38 (t, *J* = 8.3 Hz, 1 H), 2.21 – 2.15 (m, 3 H), 1.04 (s, 9 H), 0.080 (t, *J* = 7.9 Hz, 9 H), 0.43 (q, *J* = 3.8 Hz, 6 H); ¹³C NMR (100 Mz, CDCl₃) δ 139.1, 138.4, 136.4, 136.0, 134.4, 130.0, 128.9, 128.2, 128.2, 128.0, 74.2, 73.8, 70.6, 63.4, 33.9, 32.9, 27.3, 19.5, 7.8, 3.2; IR (neat) 3584, 3456, 3070, 3030, 2999, 1610, 1589, 1496, 1472, 1456, 1421, 1390, 1361, 1237, 1007, 823 cm⁻¹; HRMS (EI) calcd for C₃₆H₅₂O₃Si₂ [M + H] 589.3527 found 589.3533.

(2*R*,3*R*,5*R*)-5-(Benzyloxymethyl)-2-([2-(*tert*-butyldiphenylsilyl)oxy]-ethyl)-3-triethylsilyl-tetrahydrofuran (12a)

and

(2*S*,3*S*,5*R*)-5-(Benzyloxymethyl)-2-([2-(*tert*-butyldiphenylsilyl)oxy]-ethyl)-3-triethylsilyl-tetrahydrofuran (12b)

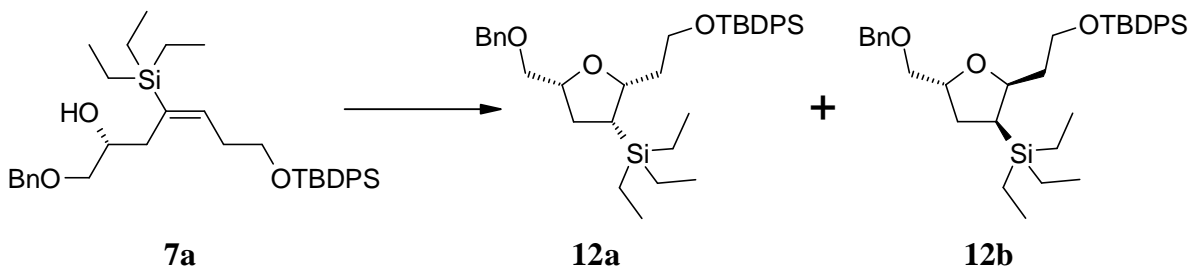


To a solution of a mixture of alcohols **7a** and **7b** (1.26 g, 2.20 mmol) in CHCl₃ (80 mL) at room temperature was added TsOH•H₂O (41 mg, 0.22 mmol). The reaction was then heated at 60 °C for 7 h and then at 70 °C for 15 h before it was allowed to cool to ambient

temperature. Et₃N (5 drops) was added to the reaction mixture before it was concentrated under reduced pressure. The crude residue was purified by flash column chromatography on silica gel (2 – 15% EtOAc in hexanes) to provide furan **12a** (72 mg, 6% yield) first and followed by the more polar **12b** (637 mg, 51% yield) as colorless oils:

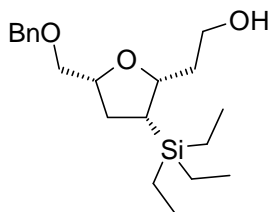
12a: $[\alpha]_D^{25} = -27.5$ (*c* 3.57, CHCl₃); ¹H NMR (300 MHz, CDCl₃) δ 7.73 – 7.69 (m, 4 H), 7.47 – 7.27 (m, 11 H), 4.57 (dd, *J* = 17.9, 12.2 Hz, 2 H), 4.48 – 4.40 (m, 1 H), 4.12 – 4.04 (m, 1 H), 3.89 – 3.76 (m, 2 H), 3.42 – 3.33 (m, 2 H), 1.96 – 1.78 (m, 2 H), 1.60 – 1.46 (m, 3 H), 1.08 (s, 9 H), 0.98 (t, *J* = 8.2 Hz, 9 H), 0.64 – 0.52 (m, 6 H); ¹³C NMR (75 Mz, CDCl₃) δ 138.5, 135.6, 135.5, 134.2, 134.0, 129.5, 129.5, 128.3, 127.7, 127.6, 127.5, 78.9, 75.2, 73.3, 73.0, 61.7, 36.6, 29.9, 27.9, 19.2, 7.8, 3.7; IR (neat) 3070, 3049, 2953, 2875, 2856, 1472, 1455, 1428, 1389, 1361, 1241, 1197, 1111, 1016, 940, 823, 701 cm⁻¹; HRMS (EI) calcd for C₃₆H₅₂O₃Si₂ [*M* + *H*] 611.3347 found 611.3336.

12b: $[\alpha]_D^{25} = 54.4$ (*c* 3.09, CHCl₃); ¹H NMR (300 MHz, CDCl₃) δ 7.74 – 7.68 (m, 4 H), 7.46 – 7.26 (m, 11 H), 4.52 (dd, *J* = 17.9, 12.2 Hz, 2 H), 4.45 – 4.38 (m, 1 H), 4.05 – 3.97 (m, 1 H), 3.88 – 3.77 (m, 2 H), 3.47 – 3.38 (m, 2 H), 2.06 – 1.98 (m, 1 H), 1.70 – 1.46 (m, 4 H), 1.07 (s, 9 H), 1.00 (t, *J* = 8.9 Hz, 9 H), 0.64 – 0.56 (m, 6 H); ¹³C NMR (75 Mz, CDCl₃) δ 137.6, 134.7, 134.7, 133.3, 133.1, 128.5, 127.3, 126.6, 126.5, 77.9, 77.4, 73.1, 72.3, 60.7, 38.0, 30.1, 28.7, 25.9, 18.2, 6.8, 2.8; IR (neat) 3070, 2954, 2875, 1589, 1496, 1472, 1455, 1428, 1389, 1361, 1306, 1240, 1192, 1016, 939, 823, 701 cm⁻¹; HRMS (EI) calcd for C₃₆H₅₂O₃Si₂ [*M* + *H*] 611.3347 found 611.3336.



To a solution of allylic alcohol **7a** (5.78 g, 10.09 mmol) in CHCl₃ (200 mL) at room temperature was added TsOH (100 mg, 0.53 mmol). The reaction was then heated at 55 °C for 2 days before it was concentrated under reduced pressure. The crude residue was purified by flash column chromatography on silica gel (2 – 15% EtOAc in hexanes) to provide furan **12a** (723 mg, 13% yield) first and followed by the more polar **12b** (3.80 g, 66% yield). In addition, the starting material **7a** was also recovered (0.43 g).

**2-[(2*R*,3*R*,5*R*)-5-(Benzyloxymethyl)-3-triethylsilyl-tetrahydro-furan-2-yl]-ethanol
(13)**

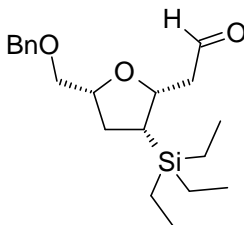


13

To a solution of silyl ether **12a** (1.56 g, 2.65 mmol) in THF (80 mL) at 0 °C was added dropwise a solution of TBAF (1.0 M in THF, 3.97 mL, 3.97 mmol). The reaction was then stirred from 0 °C to room temperature over 3 h before it was quenched with saturated aq. NH₄Cl solution. The reaction mixture was then extracted with EtOAc. The organic layer was washed with brine, dried over MgSO₄ and concentrated. The crude residue was purified by flash column chromatography on silica gel (10 – 40% EtOAc in hexanes) to provide alcohol **13** (932 mg, 100% yield) as a colorless oil:

$[\alpha]_D^{25} = 47.2$ (*c* 4.79, CHCl₃); ¹H NMR (100 MHz, CDCl₃) δ 7.37 – 7.24 (m, 5 H), 4.59 – 4.44 (m, 3 H), 4.28 – 4.21 (m, 1 H), 3.87 – 3.72 (m, 2 H), 3.43 – 3.32 (m, 2 H), 2.08 – 1.96 (m, 1 H), 1.90 – 1.82 (m, 1 H), 1.76 – 1.53 (m, 2H), 1.46 – 1.38 (m, 1 H), 0.98 – 0.92 (m, 9 H), 0.66 – 0.54 (m, 6 H); ¹³C NMR (75 Mz, CDCl₃) δ 138.6, 128.7, 128.0, 128.0, 83.9, 76.2, 73.7, 73.1, 62.8, 35.6, 30.3, 28.7, 8.1, 4.1; IR (neat) 3441, 3064, 3030, 2952, 2875, 1496, 1454, 1417, 1375, 1240, 1067, 1016, 732, 697 cm⁻¹; HRMS (EI) calcd for C₂₀H₃₄O₃Si [M + H] 351.2350 found 351.2348.

**[(2*R*,3*R*,5*R*)-5-(Benzyloxymethyl)-3-triethylsilyl-tetrahydro-furan-2-yl] acetaldehyde
(6)**

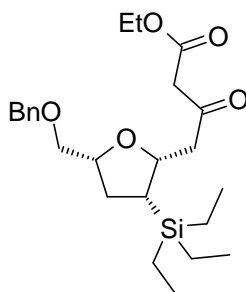


6

To a solution of alcohol **13** (0.88 g, 2.51 mmol) in CH₂Cl₂ (25 mL) at 0 °C was added NaHCO₃ (0.53 g, 6.28 mmol) and followed by Dess-Martin periodinane (1.38 g, 3.26 mmol) in small portions. The reaction was then stirred from 0 °C to room temperature over 1 h before it was diluted with EtOAc. The organic layer was washed with H₂O, brine, dried over MgSO₄ and concentrated to yield the crude aldehyde **6** (0.84 g, 96% yield) as a colorless oil:

$[\alpha]_D^{25} = 69.6$ (*c* 6.98, CHCl_3); ^1H NMR (300 MHz, CDCl_3) δ 9.77 – 9.75 (m, 1 H), 7.37 – 7.24 (m, 5 H), 4.80 – 4.73 (m, 1 H), 4.54 (s, 2 H), 4.07 – 3.99 (m, 1 H), 3.56 – 3.46 (m, 2 H), 2.51 (ddd, $J = 14.8, 11.3, 3.2$ Hz, 1 H), 2.31 – 2.20 (m, 1 H), 2.09 – 1.98 (m, 1 H), 1.78 – 1.62 (m, 2 H), 0.94 (t, $J = 7.9$ Hz, 9 H), 0.63 – 0.53 (m, 6 H); ^{13}C NMR (75 Mz, CDCl_3) δ 202.8, 138.7, 128.8, 128.1, 128.0, 80.0, 77.6, 73.9, 73.3, 50.1, 30.9, 30.1, 8.1, 4.1; IR (neat) 3064, 3030, 2954, 2910, 2875, 2732, 1727, 1455, 1418, 1363, 1310, 1241, 1192, 1098, 1076, 1017, 948, 732, 698 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{20}\text{H}_{32}\text{O}_3\text{Si}$ [$\text{M} + \text{H}$] 349.2194 found 349.2192.

4-[(2*R*,3*R*,5*R*)-5-(Benzyloxymethyl)-3-triethylsilyl-tetrahydro-furan-2-yl]-3-oxo-butylric acid ethyl ester (15**)**

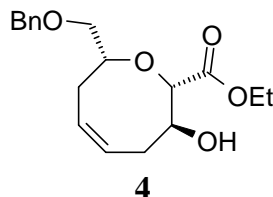


15

To a solution of ethyl diazoacetate (196 mg, 1.72 mmol) in CH_2Cl_2 (6 mL) at room temperature was added anhydrous SnCl_2 (27 mg, 0.14 mmol). The cloudy reaction mixture was stirred for 15 min and followed by addition of a solution of aldehyde **6** (500 mg, 1.43 mmol) in CH_2Cl_2 (6 mL). The resulting mixture was stirred for 2 h before it was concentrated. The crude residue was purified by flash column chromatography on silica gel (10 – 15% EtOAc in hexanes) to provide β -keto ester **15** (436 mg, 70% yield) and the more polar oxocene **4** (104 mg, 23% yield) both as colorless oils:

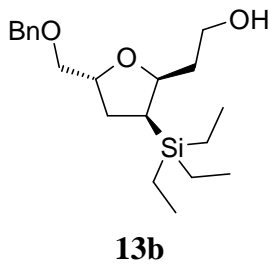
β -keto ester **15**: $[\alpha]_D^{25} = 90.5$ (*c* 4.31, CHCl_3); ^1H NMR (300 MHz, CDCl_3) δ 7.36 – 7.26 (m, 5 H), 4.69 – 4.62 (m, 1 H), 4.54 (s, 2 H), 4.18 – 4.10 (m, 2 H), 4.06 – 3.93 (m, 1 H), 3.58 – 3.47 (m, 4 H), 2.69 (dd, $J = 13.9, 11.3$ Hz, 1 H), 2.38 (dd, $J = 13.9, 2.6$ Hz, 1 H), 2.03 – 1.95 (m, 1 H), 1.77 – 1.63 (m, 2 H), 1.27 – 1.19 (m, 3 H), 1.00 – 0.92 (m, 9 H), 0.65 – 0.52 (m, 6 H); ^{13}C NMR (75 Mz, CDCl_3) δ 202.7, 167.8, 138.7, 128.8, 128.1, 128.0, 79.7, 79.0, 72.9, 61.5, 50.5, 49.5, 30.7, 30.2, 14.5, 8.1, 4.1; IR (neat) 3030, 2954, 2910, 2875, 1745, 1717, 1653, 1496, 1455, 1416, 1368, 1240, 1196, 1096, 1029, 802, 733, 698 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{24}\text{H}_{38}\text{O}_5\text{Si}$ [$\text{M} + \text{H}$] 457.2381 found 457.2373.

(2*S*,3*S*,8*R*,*Z*)-8-(Benzyloxymethyl)-3-hydroxy-3,4,7,8-tetrahydro-(2*H*)-oxocine-2-carboxylic acid ethyl ester (4)



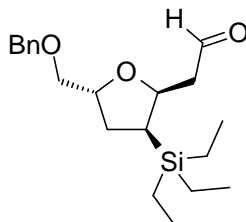
$[\alpha]_D^{25} = 32.5$ (*c* 3.43, CHCl₃); ¹H NMR (400 MHz, CDCl₃) δ 7.35 – 7.27 (m, 5 H), 5.96 – 5.85 (m, 2 H), 4.57 (s, 2 H), 4.25 – 4.13 (m, 3 H), 3.90 (d, *J* = 9.4 Hz, 1 H), 3.74 – 3.66 (m, 1 H), 3.60 (dd, *J* = 5.5, 4.3 Hz, 1 H), 3.45 (dd, *J* = 5.4, 4.3 Hz, 1 H), 3.00 (m, 1H), 2.83 – 2.74 (m, 1 H), 2.44 – 2.22 (m, 3 H), 1.25 (t, *J* = 7 Hz, 3 H); ¹³C NMR (100 Mz, CDCl₃) δ 174.2, 138.6, 138.5, 129.6, 129.6, 128.8, 128.0, 82.7, 81.3, 73.7, 73.3, 73.0, 65.0, 61.8, 31.6, 31.0, 14.5; IR (neat) 3462, 3027, 2980, 2932, 1740, 1497, 1454, 1373, 1323, 1245, 1182, 1097, 1041, 737, 698 cm⁻¹; HRMS (EI) calcd for C₁₈H₂₄O₅ [M + H] 321.1697 found 321.1694.

2-[(2*S*,3*S*,5*R*)-5-(Benzyloxymethyl)-3-triethylsilyl-tetrahydro-furan-2-yl]-ethanol (13b)



$[\alpha]_D^{25} = -29.3$ (*c* 6.10, CHCl₃); ¹H NMR (400 MHz, CDCl₃) δ 7.36 – 7.27 (m, 5 H), 4.55 (dd, *J* = 12, 17 Hz, 2 H), 4.5 – 4.45 (m, 1 H), 4.28 – 4.22 (m, 1 H), 3.87 – 3.73 (m, 2 H), 3.42 – 3.18 (m, 2 H), 3.16 (dd, *J* = 2, 9 Hz, 1 H), 2.07 – 1.99 (m, 1 H), 1.89 – 1.83 (m, 1 H), 1.75 – 1.64 (m, 1 H), 1.62 – 1.55 (m, 1 H), 1.45 – 1.38 (m, 1 H), 0.97 (t, *J* = 8 Hz, 9 H), 0.65 – 0.55 (m, 6 H); ¹³C NMR (100 Mz, CDCl₃) δ 138.6, 128.7, 128.0, 83.9, 76.1, 73.7, 73.1, 62.7, 35.6, 30.2, 28.6, 8.1, 4.1; IR (neat) 3441, 3063, 3030, 2950, 2909, 2875, 1496, 1454, 1417, 1374, 1241, 1090, 1047, 1017, 732, 697 cm⁻¹; HRMS (EI) calcd for C₂₀H₃₄O₃Si [M + H] 351.2350 found 351.2351.

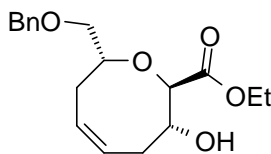
[(2*S*,3*S*,5*R*)-5-(Benzyloxymethyl)-3-triethylsilyl-tetrahydro-furan-2-yl]-acetaldehyde (6b)



6b

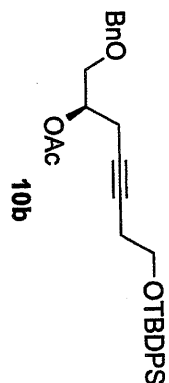
$[\alpha]_D^{25} = -47.9$ (c 4.70, CHCl_3); ^1H NMR (400 MHz, CDCl_3) δ 9.79 – 9.78 (m, 1 H), 7.35 – 7.26 (m, 5 H), 4.85 – 4.80 (m, 1 H), 4.54 (dd, $J = 12, 17$ Hz, 2 H), 4.27 – 4.20 (m, 1 H), 3.42 – 3.33 (m, 2 H), 2.51 (ddd, $J = 15, 11, 3$ Hz, 1 H), 2.30 – 2.26 (m, 1 H), 2.05 – 1.88 (m, 2 H), 1.72 – 1.62 (m, 1 H), 0.96 (t, $J = 8$ Hz, 9 H), 0.63 – 0.53 (m, 6 H); ^{13}C NMR (100 Mz, CDCl_3) δ 202.2, 138.6, 128.7, 128.1, 128.0, 77.9, 76.4, 73.7, 73.0, 65.2, 48.2, 30.1, 28.2, 8.1, 4.0; IR (neat) 3030, 2953, 2910, 2875, 2732, 1727, 1454, 1415, 1241, 1161, 1096, 1017, 803, 733, 698 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{20}\text{H}_{32}\text{O}_3\text{Si}$ [$\text{M} + \text{H}$] 349.2194 found 349.2194.

(2*R*,3*R*,8*R*,*Z*)-8-(Benzyloxymethyl)-3-hydroxy-3,4,7,8-tetrahydro-(2*H*)-oxocine-2-carboxylic acid ethyl ester (20)



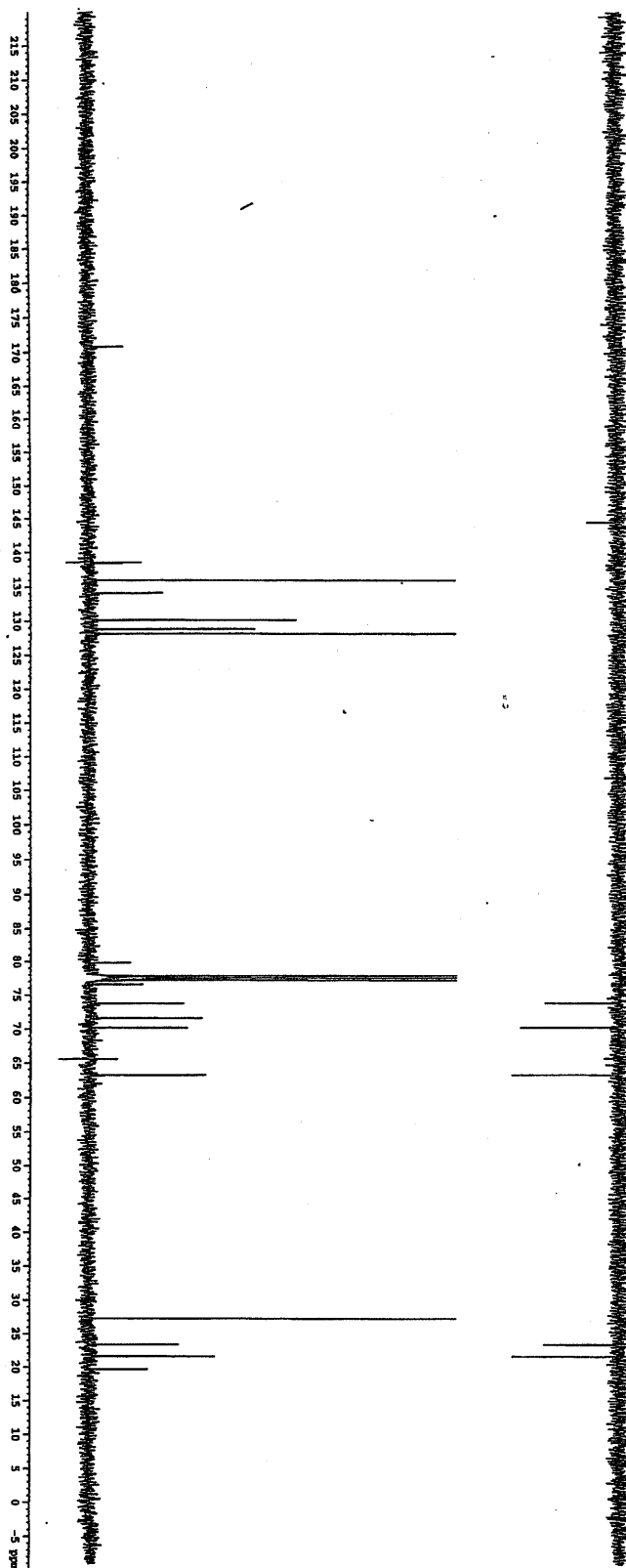
20

^1H NMR (400 MHz, CDCl_3) δ 7.36 – 7.27 (m, 5 H), 5.91 – 5.74 (m, 2 H), 4.53 (s, 2 H), 4.22 – 4.15 (m, 3 H), 4.02 – 3.91 (m, 2 H), 3.64 (ddd, $J = 6, 10, 17$ Hz, 2 H), 2.75 (d, $J = 4.5$ Hz, 1 H), 2.59 – 2.53 (m, 1 H), 2.43 – 2.31 (m, 3H), 1.24 (t, $J = 7$ Hz, 3 H); ^{13}C NMR (100 Mz, CDCl_3) δ 173.4, 138.3, 128.9, 128.8, 128.8, 128.1, 128.0, 77.6, 76.0, 75.5, 73.6, 72.5, 71.2, 65.0, 61.7, 33.3, 29.3, 14.5; IR (neat) 3462, 3027, 2980, 2932, 1740, 1497, 1454, 1373, 1323, 1245, 1182, 1097, 1041, 737, 698 cm^{-1} ; HRMS (EI) calcd for $\text{C}_{18}\text{H}_{24}\text{O}_5$ [$\text{M} + \text{H}$] 321.1697 found 321.1693.



Current Data Parameters

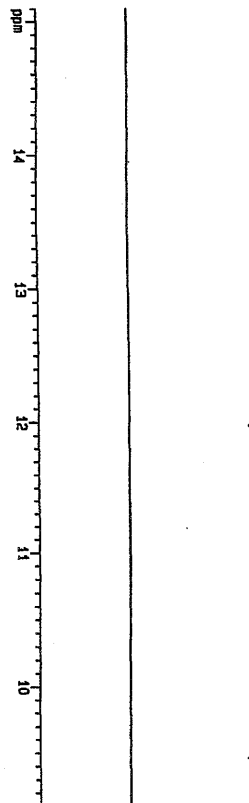
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FIDRES	0.731836 Hz
AQ	0.6832628 sec
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TD0	1



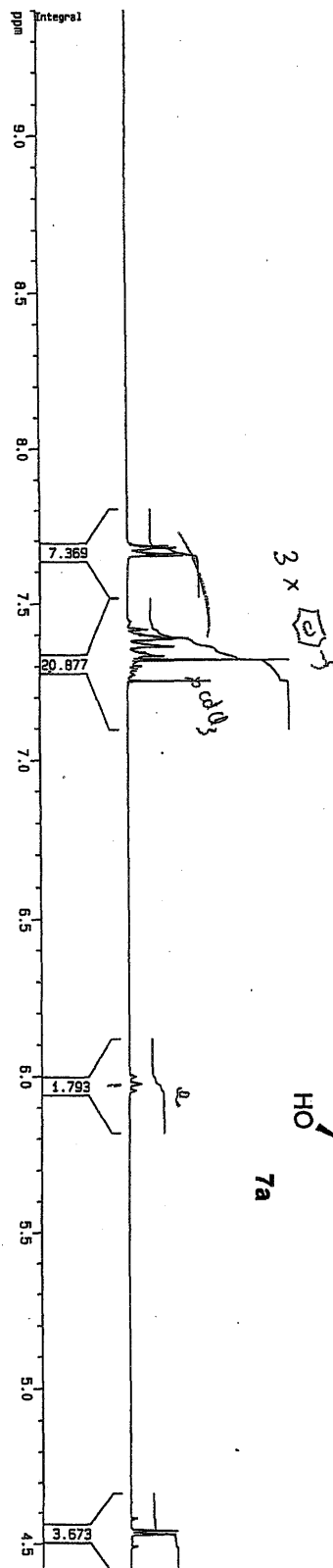
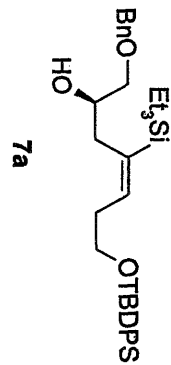
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 PL1 9.00 dB
 SFO1 100.6237964 MHz

===== CHANNEL F2 =====
 walte16
 CHDPG2 1H
 NUCL2 1H
 P2 107.25 usec
 PL2 23.00 dB
 SFO2 400.1316005 MHz

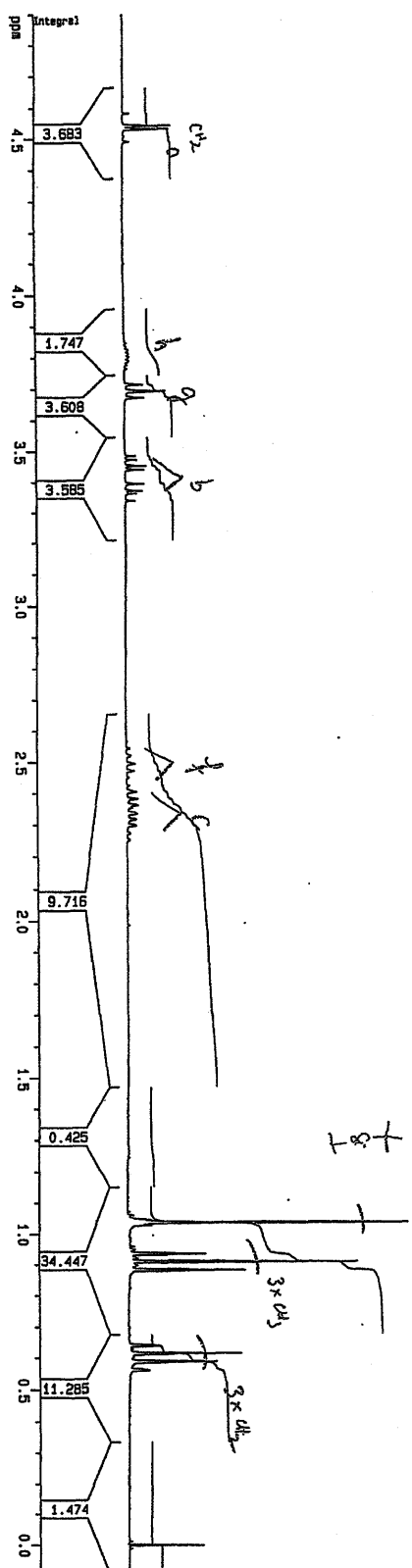
F2 - Processing parameters
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 WDW RM
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 LB 1.00 Hz
 GB 0
 PC 1.40



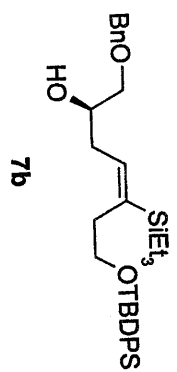
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6.8	1.00	3H, aromatic
6.5	1.00	3H, aromatic
6.2	1.00	3H, aromatic
5.8	1.00	3H, aromatic
5.5	1.00	3H, aromatic
5.2	1.00	3H, aromatic
4.8	1.00	3H, aromatic
4.5	1.00	3H, aromatic
4.2	1.00	3H, aromatic
3.8	1.00	3H, aromatic
3.5	1.00	3H, aromatic
3.2	1.00	3H, aromatic
2.8	1.00	3H, aromatic
2.5	1.00	3H, aromatic
2.2	1.00	3H, aromatic
1.8	1.00	3H, aromatic
1.5	1.00	3H, aromatic
1.2	1.00	3H, aromatic
0.8	1.00	3H, aromatic
0.5	1.00	3H, aromatic
0.2	1.00	3H, aromatic



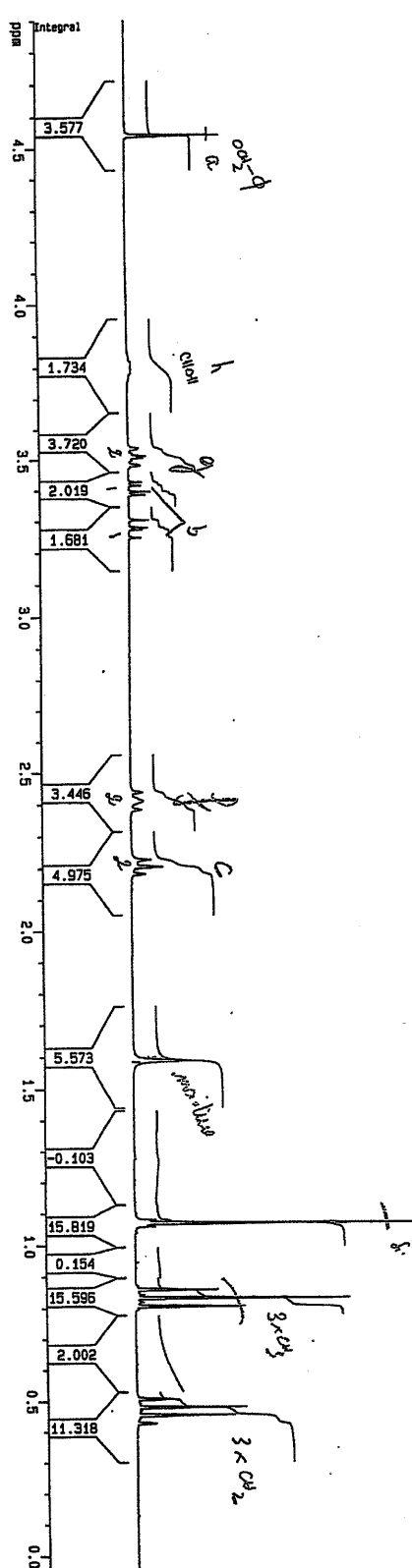
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6.5	1.00	3C, aromatic
6.2	1.00	3C, aromatic
5.8	1.00	3C, aromatic
5.5	1.00	3C, aromatic
5.2	1.00	3C, aromatic
4.8	1.00	3C, aromatic
4.5	1.00	3C, aromatic
4.2	1.00	3C, aromatic
3.8	1.00	3C, aromatic
3.5	1.00	3C, aromatic
3.2	1.00	3C, aromatic
2.8	1.00	3C, aromatic
2.5	1.00	3C, aromatic
2.2	1.00	3C, aromatic
1.8	1.00	3C, aromatic
1.5	1.00	3C, aromatic
1.2	1.00	3C, aromatic
0.8	1.00	3C, aromatic
0.5	1.00	3C, aromatic
0.2	1.00	3C, aromatic



Chemical Shift (ppm)	Integration	Assignment
11.5	1.00	OH
7.3	1.00	3H, aromatic
7.0	1.00	3H, aromatic
6.8	1.00	3H, aromatic
6.5	1.00	3H, aromatic
6.2	1.00	3H, aromatic
5.8	1.00	3H, aromatic
5.5	1.00	3H, aromatic
5.2	1.00	3H, aromatic
4.8	1.00	3H, aromatic
4.5	1.00	3H, aromatic
4.2	1.00	3H, aromatic
3.8	1.00	3H, aromatic
3.5	1.00	3H, aromatic
3.2	1.00	3H, aromatic
2.8	1.00	3H, aromatic
2.5	1.00	3H, aromatic
2.2	1.00	3H, aromatic
1.8	1.00	3H, aromatic
1.5	1.00	3H, aromatic
1.2	1.00	3H, aromatic
0.8	1.00	3H, aromatic
0.5	1.00	3H, aromatic
0.2	1.00	3H, aromatic



FD-100, 00000 Hz	WAVE=715151	EXPNO=10	PROG=10
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2	8838.7	2314.726	7.7124 1.31
3	8843.1	2313.677	7.7068 1.97
4	8847.5	2312.850	7.7019 0.71
5	8851.9	2309.284	7.6845 0.98
6	8858.1	2307.338	7.6877 1.79
7	8863.5	2305.200	7.6869 0.69
8	7033.8	2298.120	7.6988 0.15
9	7040.3	2298.367	7.4527 1.13
10	7046.5	2298.362	7.4332 0.09
11	7052.9	2294.592	7.4387 0.81
12	7057.2	2294.815	7.4118 2.25
13	7060.0	2292.705	7.4557 1.48
14	7065.8	2291.644	7.3933 1.46
15	7101.8	2292.362	7.3710 0.63
16	7108.5	2291.444	7.3392 0.03
17	7120.7	2297.185	7.3549 2.48
18	7126.8	2295.571	7.3466 1.87
19	7131.8	2292.384	7.3419 0.59
20	7134.1	2292.544	7.3509 0.40
21	7141.2	2189.392	7.3278 0.33
22	7147.5	2187.073	7.3278 0.34
23	7173.0	2187.207	7.2874 1.05
24	8356.0	1735.329	5.7633 0.24
25	8374.1	1738.046	5.7659 0.51
26	8383.3	1732.158	5.7378 0.25
27	8333.8	1732.985	4.5410 3.12
28	8521.3	1138.811	3.7444 0.14
29	8527.0	1092.018	3.5381 0.35
30	10143.1	1054.125	3.5124 0.39
31	10148.4	1052.202	3.3559 0.51
32	10151.6	1052.773	3.4818 0.41
33	10219.1	1028.540	3.4273 0.41
34	10218.8	1028.395	3.4653 0.42
35	10295.1	1019.138	3.3636 0.73
36	10295.3	1019.088	3.3949 0.58
37	10397.2	881.521	3.3028 0.15
38	10327.0	884.052	3.2787 0.61
39	10374.1	853.624	3.2773 0.45
40	10351.9	847.540	3.2871 0.40
41	10986.8	731.814	2.4078 0.40
42	11010.8	723.028	2.4087 0.41
43	11031.8	719.139	2.3938 0.38
44	11157.1	658.548	2.2275 0.58
45	11184.1	681.743	2.2948 1.05
46	11258.8	658.158	2.1825 0.48
47	11626.8	478.797	1.5886 0.90
48	12057.4	323.967	1.8784 0.78
49	12065.0	321.051	1.6867 0.50
50	12072.9	318.387	1.6867 0.70
51	12163.0	283.877	0.9452 0.41
52	12212.1	297.898	0.9528 0.78
53	12212.9	297.898	0.9454 0.30
54	12292.2	249.548	0.8319 7.22
55	12290.0	245.345	0.8286 0.28
56	12342.9	241.629	0.8278 0.78
57	12508.0	151.783	0.9267 1.00
58	12520.3	144.347	0.9268 3.72
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60	12578.0	125.850	0.9455 0.58



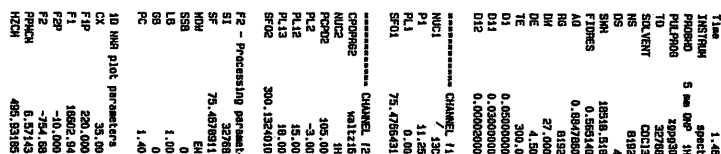
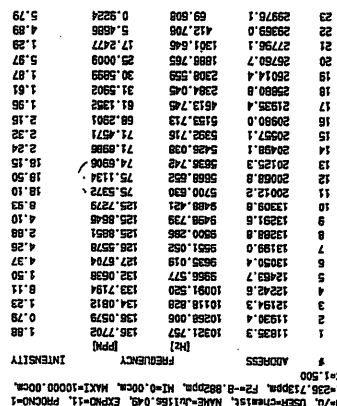
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P2 - Processing parameters

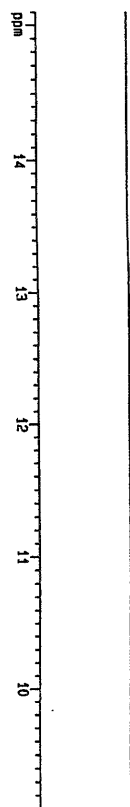
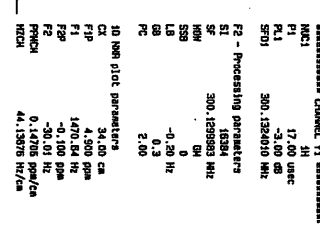
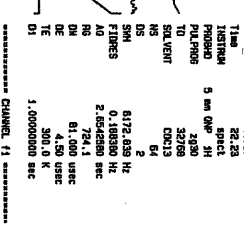
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SB	4.00

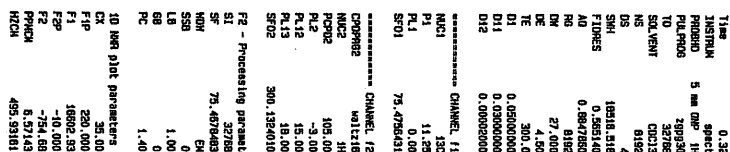
10 WDR plot parameters

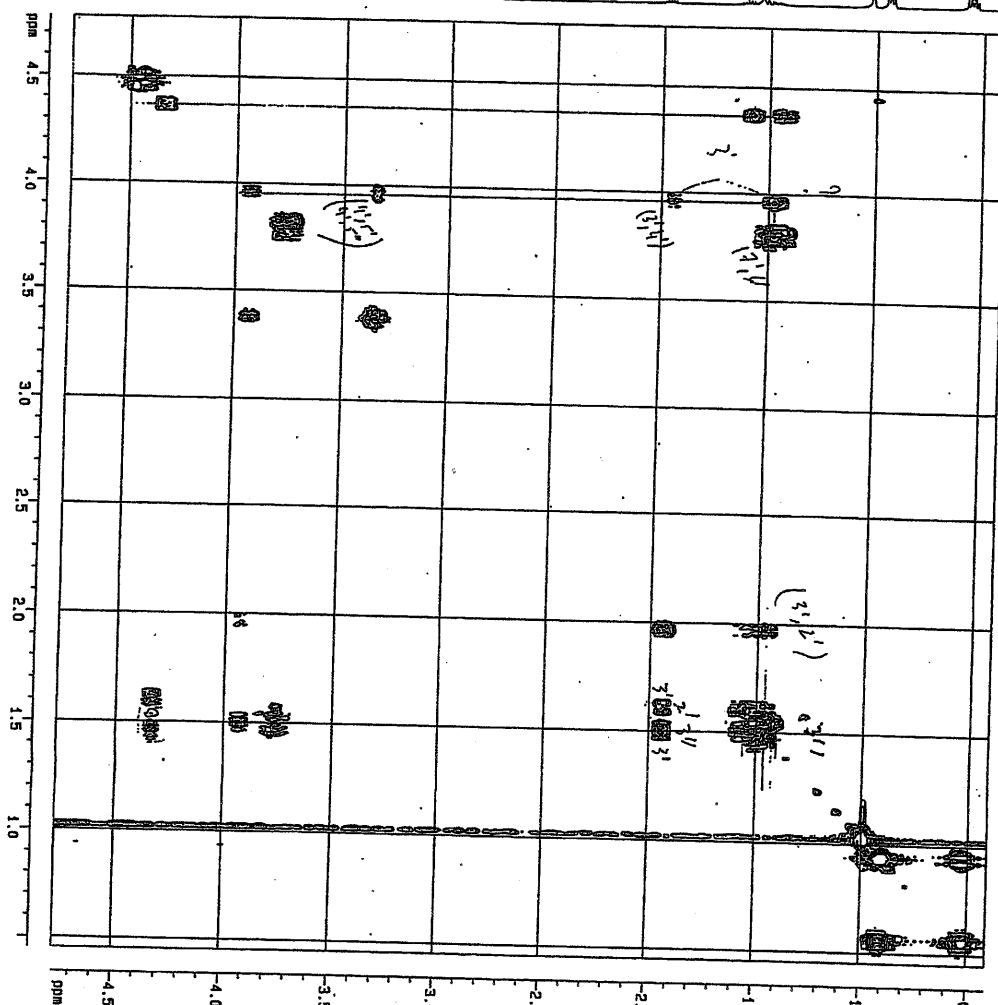
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PRCH	4.13705 Hz/cm



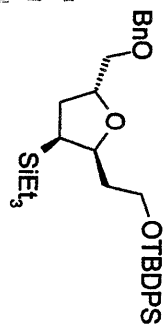
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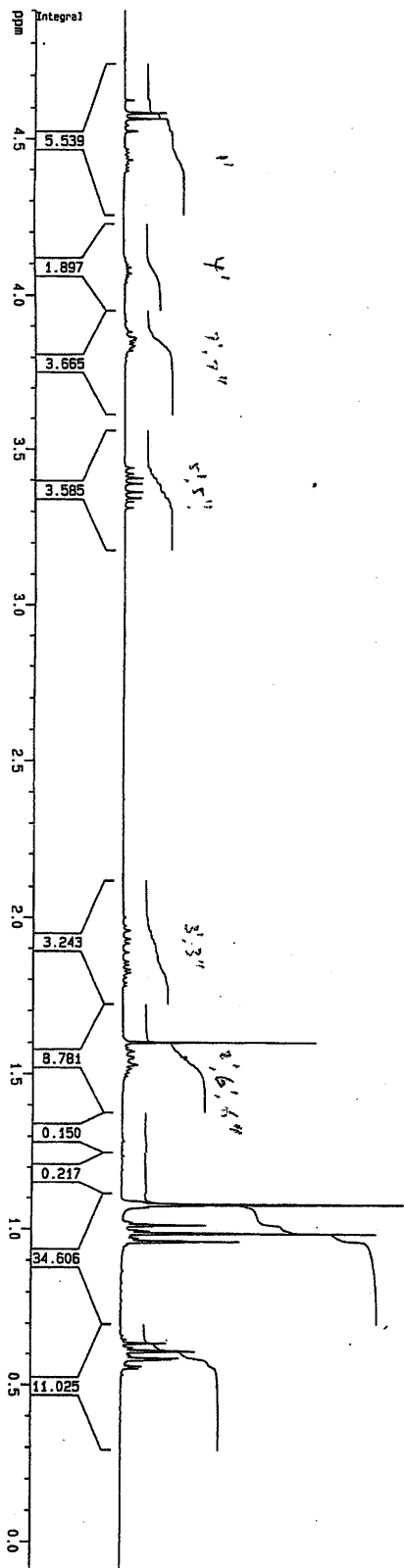
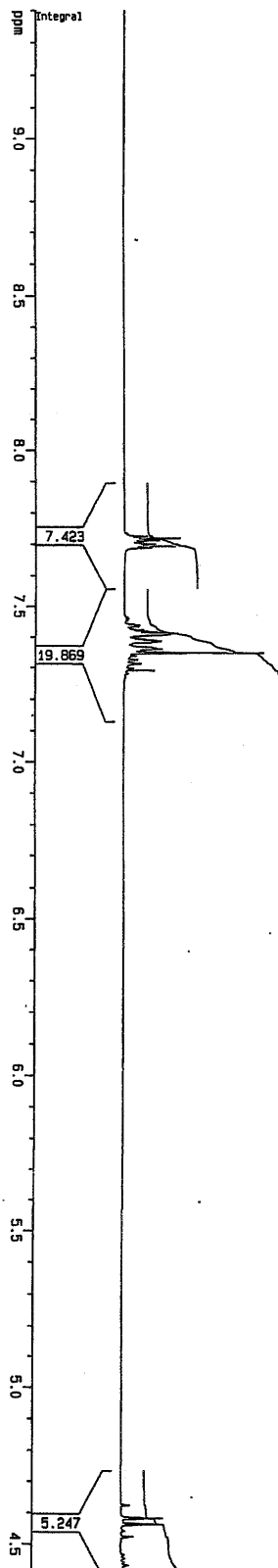
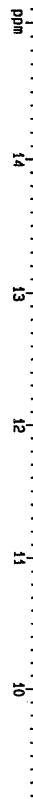




JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	



12b

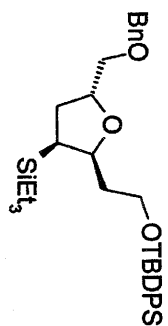


Time 10.07
INSTRUM spect
PROBHD 5 mm QNP 5H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 0
DS 2
SWH 6172.639 Hz
AQ 0.188390 Hz
RG 1310
FIDRES 2.1642500 Hz
DE 19.450 Hz
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 17.00 usec
PL1 -3.00 dB
SFO1 300.135010 MHz

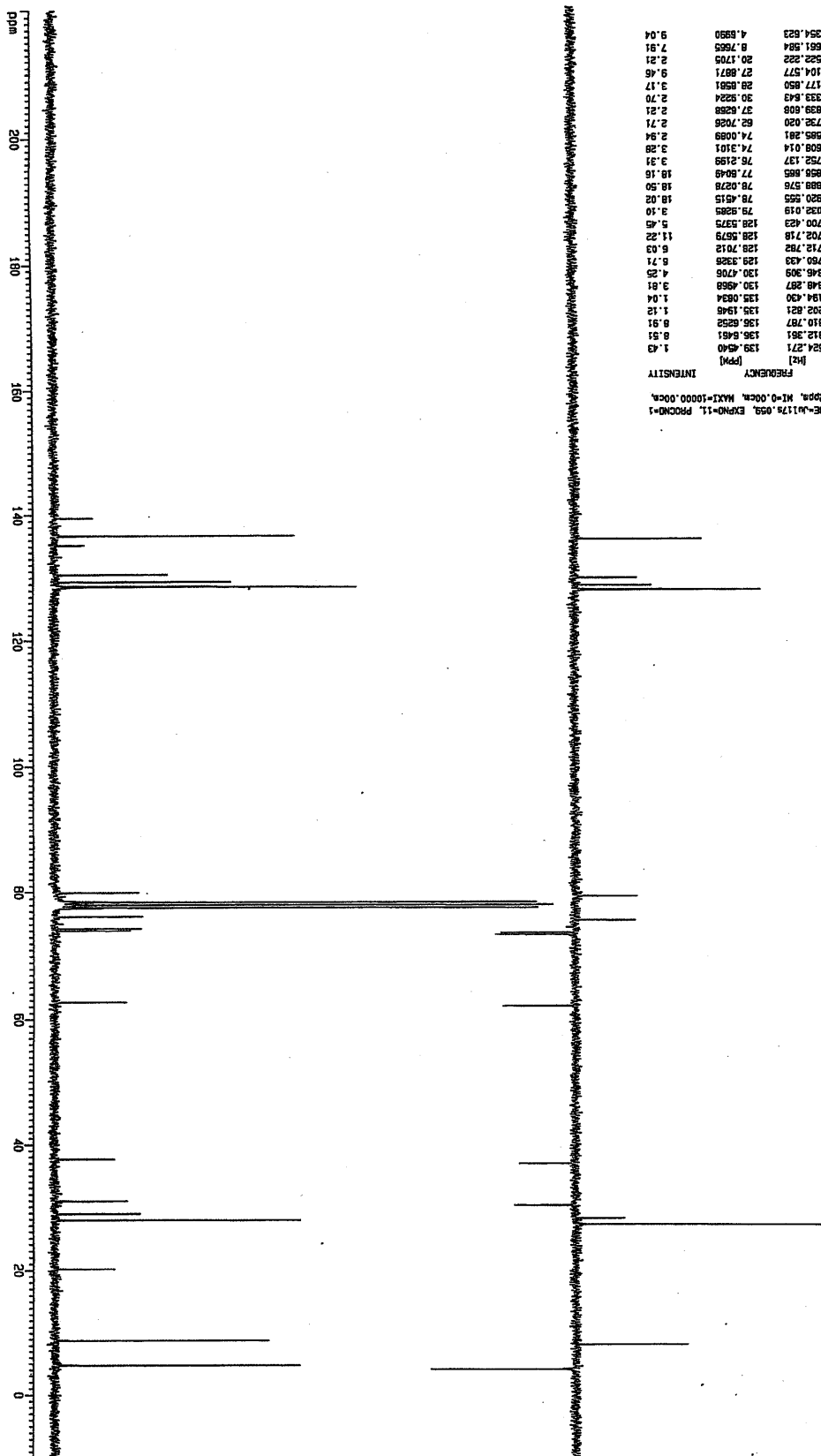
F2 - Processing parameters
SI 32768
SF 300.135010 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 2.00

10 MHz plot parameters
CX 34.00 cm
F1 4.000 ppm
F2 1470.64 Hz
F3 -0.100 ppm
F4 -50.01 Hz
PRNUCH 44.13070 Hz/cm



Du: USRChem12, NAME: 12b, EXPNO: 11, PROCNO: 1
 F1=236.713ppm, F2=8.882ppm, MI=0.00cm, MAXI=10000.00cm, PC=1.500

#	ADDRESS	[Hz]	[ppm]	INTENSITY
1	11665.1	10524.271	139.4040	1.43
2	12240.1	10312.361	136.461	8.61
3	12423.9	10202.821	135.1946	1.12
4	12448.8	10194.430	135.0864	1.04
5	13061.3	9846.287	130.4968	3.81
6	13064.8	9846.305	130.4706	4.25
7	13218.7	9750.433	129.3368	6.71
8	13301.0	9712.782	128.7012	6.03
9	13318.8	9702.718	128.5879	11.22
10	13322.5	9700.423	128.5375	5.46
11	13814.0	8032.019	79.4915	3.10
12	15011.3	5920.555	78.4315	18.02
13	20067.9	5888.576	78.0278	18.50
14	20124.3	5858.665	77.8049	18.16
15	20309.3	5752.137	76.2199	3.31
16	20564.3	5608.014	74.3101	3.28
17	20604.5	5585.281	74.0089	2.94
18	22114.3	4732.020	62.7026	2.71
19	25462.9	2839.608	37.6589	2.21
20	25938.2	2333.543	30.8204	2.70
21	26363.9	2177.950	29.8981	3.17
22	26763.5	2104.577	27.8871	9.46
23	27794.0	1522.222	20.1705	2.21
24	28316.9	1361.584	18.7665	7.91
25	29860.0	354.823	4.8990	9.04



Time	11.25	15.47	12b
INSTRUM	5 mm QNP-1H	1H	12b
PROBHD	5 mm QNP-1H	1H	12b
TD	32768	32768	12b
SOLVENT	CDCl3	CDCl3	12b
NS	8182	8182	12b
DS	4	4	12b
SWH	16318.318	16318.318	12b
FIDRES	0.055148	0.055148	12b
AQ	0.0847680	0.0847680	12b
RG	27.000	27.000	12b
DE	4.50	4.50	12b
TE	300.0	300.0	12b
O1	0.05900000	0.05900000	12b
O13	0.03000000	0.03000000	12b
O12	0.00020000	0.00020000	12b

***** CHANNEL 11 *****

P1	11.25	ppm
P2	11.25	ppm
SF1	75.0796431	ppm

***** CHANNEL 12 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 13 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 14 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 15 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 16 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 17 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 18 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 19 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 20 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 21 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 22 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 23 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 24 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 25 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 26 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 27 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 28 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 29 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 30 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 31 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 32 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 33 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 34 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 35 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 36 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 37 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 38 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 39 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 40 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 41 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 42 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 43 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 44 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 45 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 46 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 47 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 48 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 49 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 50 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 51 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 52 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 53 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 54 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

***** CHANNEL 55 *****

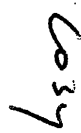
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CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

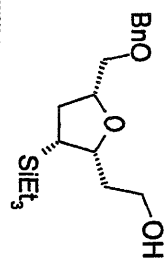
***** CHANNEL 56 *****

NAME	VALUE	UNIT
CH1	10.00	ppm
CH2	35.00	ppm
CH3	-3.00	ppm
CH4	-3.00	ppm
CH5	15.00	ppm
CH6	15.00	ppm
CH7	30.0	ppm
CH8	30.0	ppm

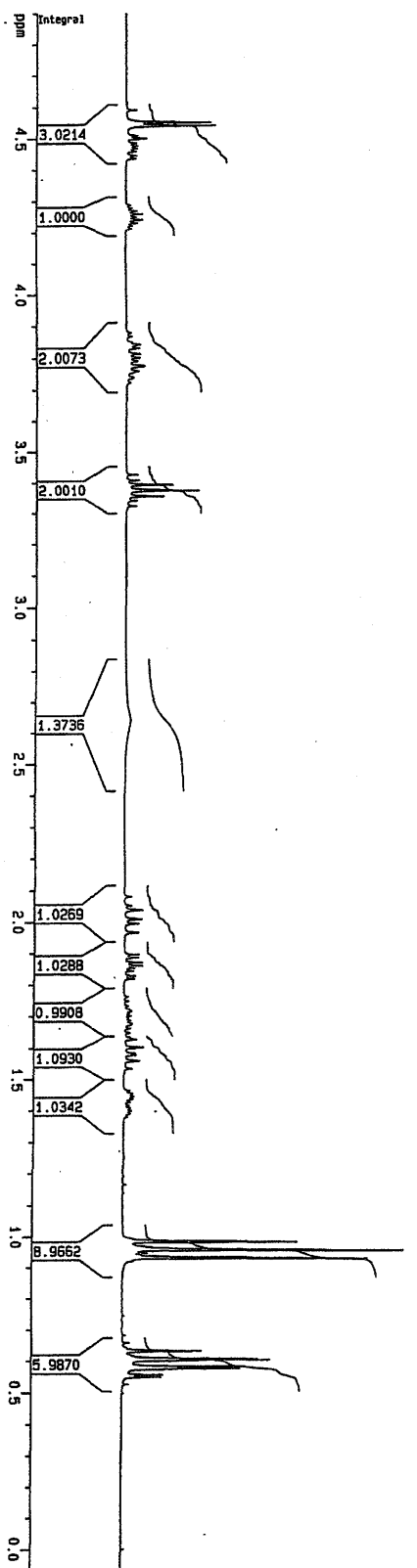
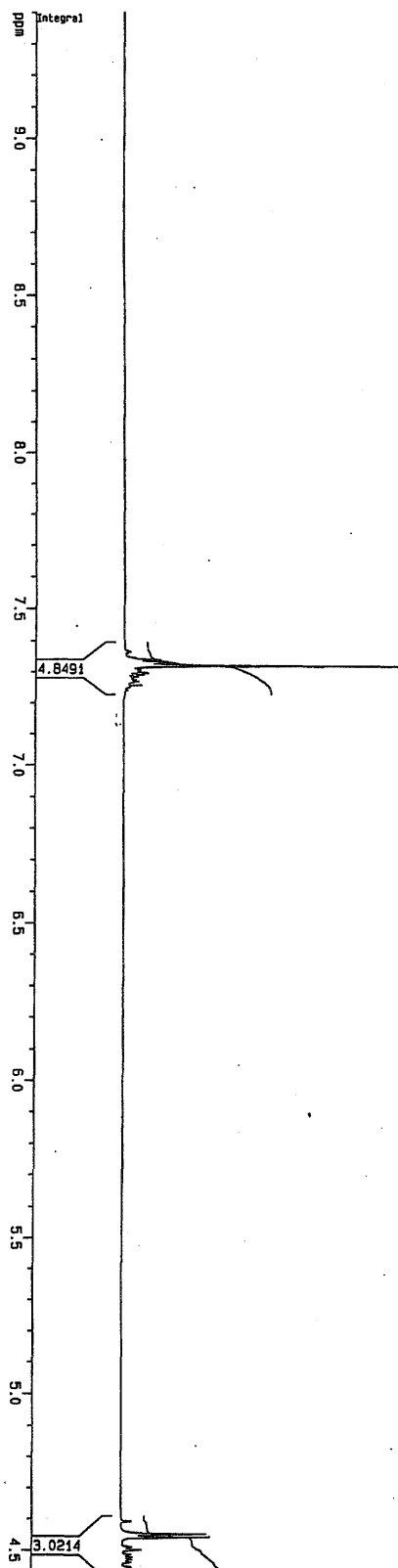
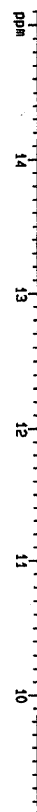
***** CHANNEL 57 *****

NAME	VALUE	UNIT
CH1	10.00	ppm

23



13a

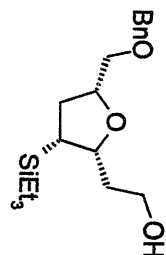


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PROBHD 5 mm QNP 1H
PULPROG zgpg30
TO 1330
SOLVENT CDCl3
NS 16
DS 2
SWH 6172.893 Hz
AQ 0.168890 sec
RG 256
DM 81.060 MHz
TE 300.2 K
D1 1.0000000 sec

NAME CHANNEL F1
NUC1 13C
P1 17.00 sec
PL1 -3.00 dB
SFO1 300.1350610 MHz

F2 - Processing parameters
SI 32768
SF 300.1350610 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 4.00

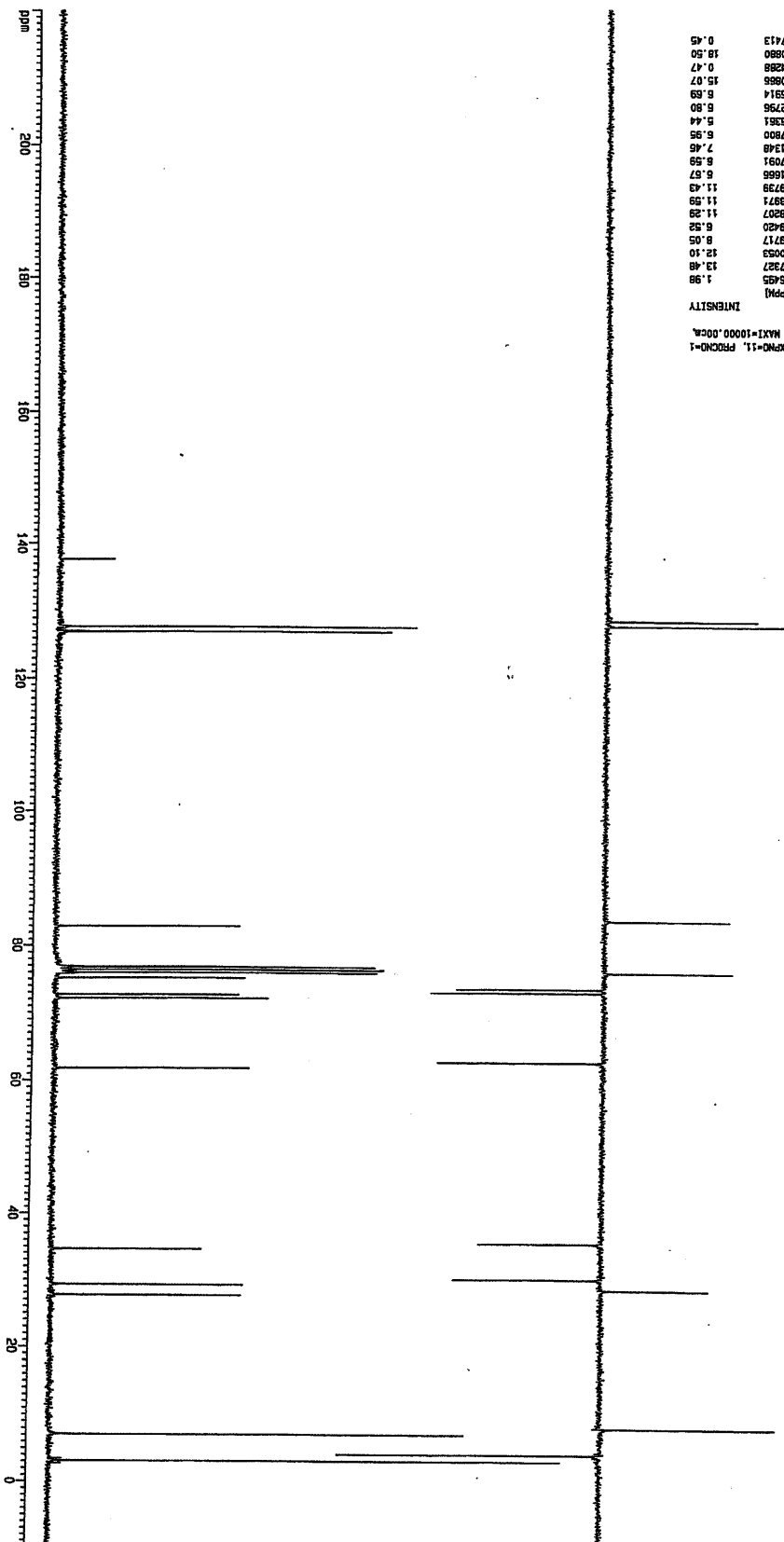
ID NMR file parameters
CX 34.00 cm
F1P 4.500 ppm
F1 1470.84 Hz
F2P -0.100 ppm
F2 -30.01 Hz
FREQM 101.626 MHz
NORM 41.15018 Hz/cm



13a

#	ADDRESS	FREQUENCY [Hz]	INTENSITY
1	11887.3	10388.104	137.6455
2	12211.5	9639.708	127.7327
3	13068.7	9904.808	127.0553
4	13313.2	9982.275	156.9717
5	19192.8	82.9420	6.92
6	20010.2	5757.481	76.8207
7	20066.8	5765.521	76.9371
8	20123.3	5773.562	76.9739
9	20231.1	5672.658	75.1666
10	20559.3	5487.197	72.7091
11	20559.0	5443.851	72.1349
12	22018.7	4563.401	51.7900
13	22643.5	2813.911	29.2796
14	22658.8	2209.667	27.6914
15	22670.9	2089.810	27.6914
16	22922.4	934.806	7.0866
17	22910.8	258.761	3.0880
18	22956.4	233.042	3.0880
19	25902.7	2.7413	0.45

DU=V, USR=Chem131, NAME=J1215.065, EXPNO=11, PROCNO=1
F1=226.713ppm, F2=-8.882ppm, M1=0.00cm, M2=0.00cm, MAXI=1000.00cm, PC=1.500



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Time 4.15
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 6122
DS 4
SH 18516.518
FIDRES 0.055140
AQ 0.6847860
RG 6122
DE 27.430
TE 300.0
D1 0.02000000
D11 0.03000000
D12 0.00020000

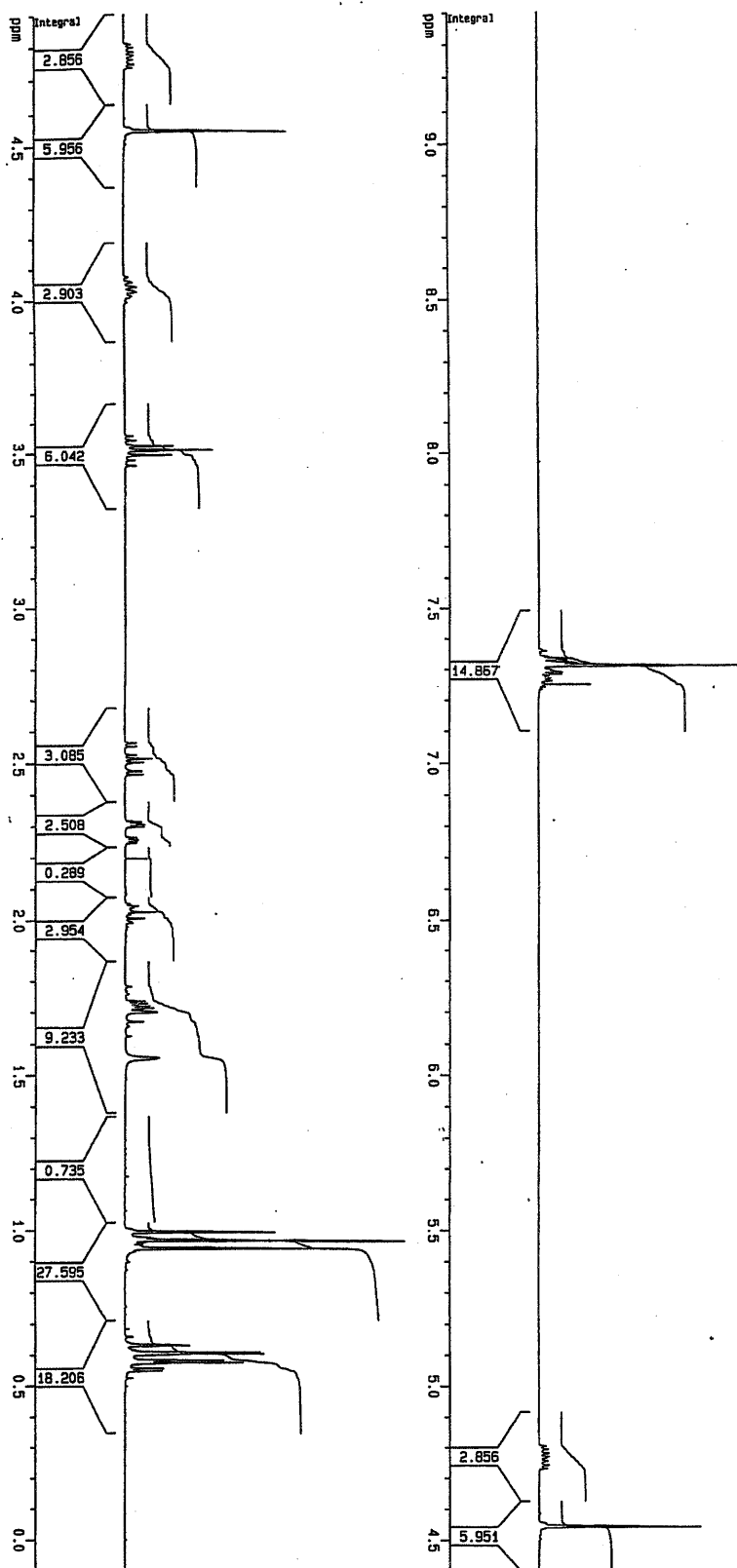
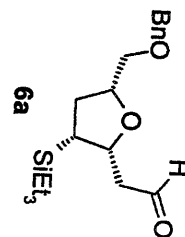
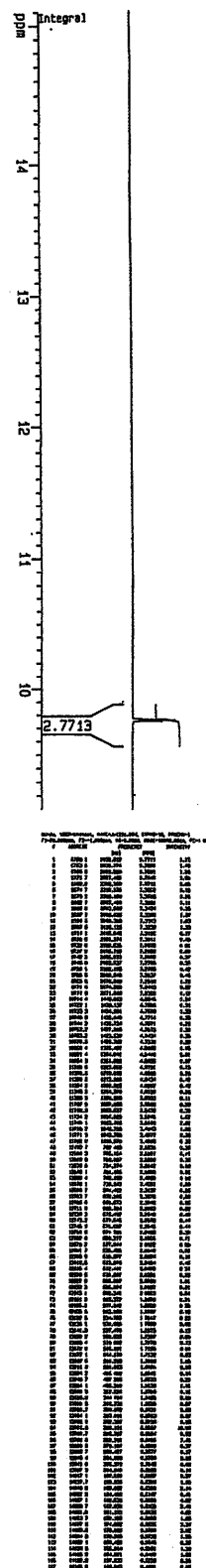
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NUC1 13C
P1 14.500
PL 0.00
SFO1 75.4756431

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 105.00
R1 2.500
R12 14.00
R13 18.00
SF02 300.135010

F2 - Processing parameters
SI 32768
SF 75.4677593
EN 64
SSB 0
LB 1.00
GB 0
PC 1.40

ID NMR plot parameters
CX 35.00
YIP 2267.000
F1 16062.132
F2 -754.68
PRNO 6.57143
H2O 455.53127

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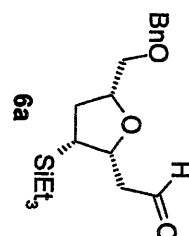


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 F2 200
 F3 200
 F4 200
 NS 2
 DS 2
 SFR 6172.538 Hz
 FIDRES 0.18936 Hz
 AQ 2.05256 sec
 RG 327.44
 DA 81.000 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec

NAME: 6a
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 P2 3.00 usec
 P3 300.132400 Hz
 SFO1 300.132400 Hz
 F2 200
 F3 200
 F4 200
 NS 2
 DS 2
 SFR 6172.538 Hz
 FIDRES 0.18936 Hz
 AQ 2.05256 sec
 RG 327.44
 DA 81.000 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec

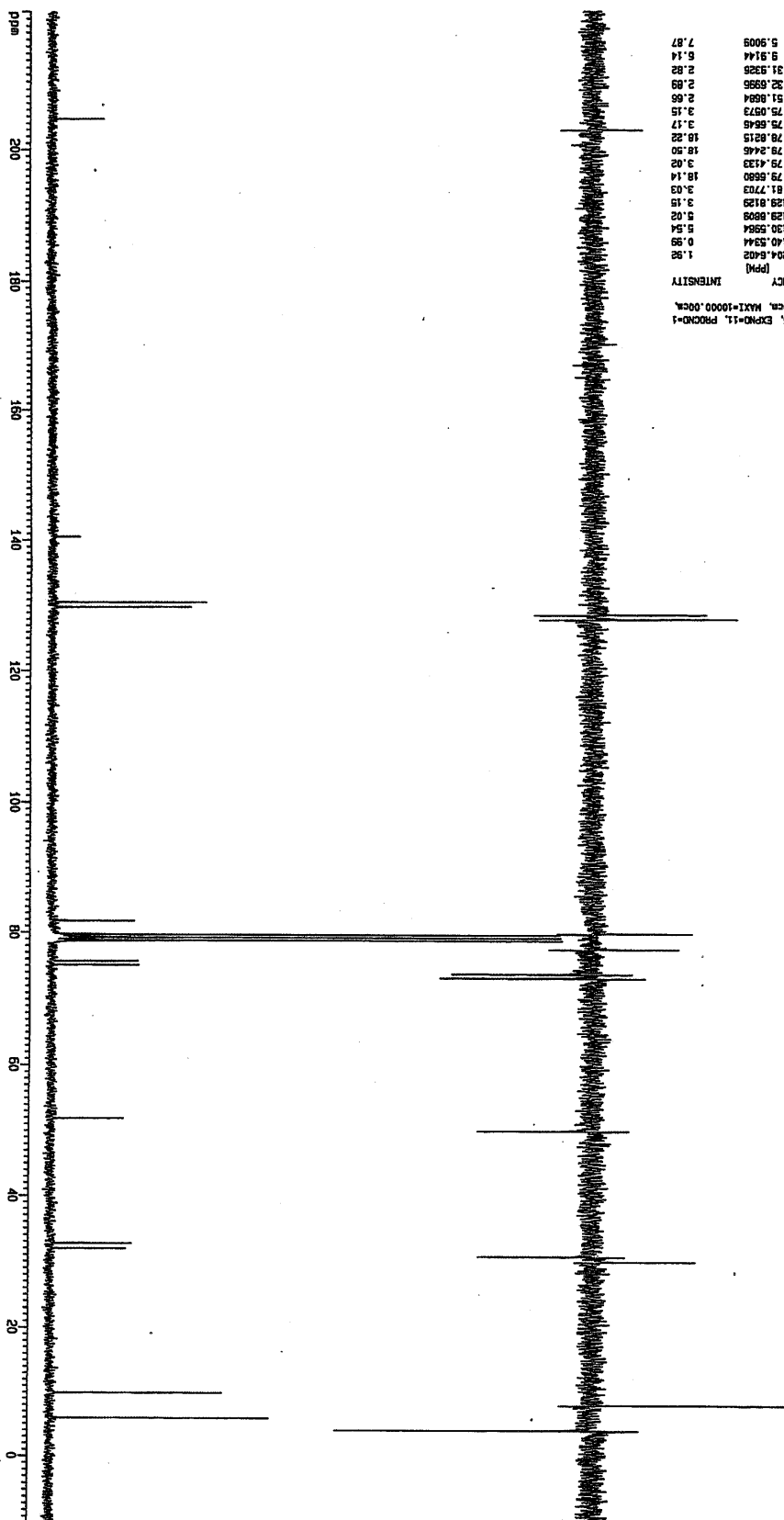
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 F94 14.000 ppm
 F95 14.000 ppm
 F96 14.000 ppm
 F97 14.000 ppm
 F98 14.000 ppm
 F99 14.000 ppm
 F100 14.000 ppm

Jim Li
COC13
80091-152



DU-V. USER: chemist; NAME: N1213.064; EXPNO: 11; PROCNO: 1
F1: 230.713ppm; F2: 0.000ppm; M1: 0.00cm; M2: 10000.00cm

#	ADDRESS	FREQUENCY [Hz]	INTENSITY [ppm]
1	3323.6	15443.699	204.6402
2	11884.1	10605.788	140.5344
3	13211.2	9801.781	130.5864
4	13308.8	9801.781	129.8809
5	13315.8	9796.869	129.8129
6	19731.3	6171.004	81.7703
7	20912.1	6012.351	79.6880
8	20946.1	5993.132	79.4133
9	20958.6	5980.400	79.2446
10	20125.1	5948.466	78.8215
11	20546.7	5710.224	75.6646
12	20627.8	5664.395	75.0873
13	23724.4	3914.379	51.8884
14	26284.1	2467.763	32.6956
15	26386.6	2409.878	31.9326
16	29882.8	748.214	5.9144
17	29882.8	748.214	5.9009

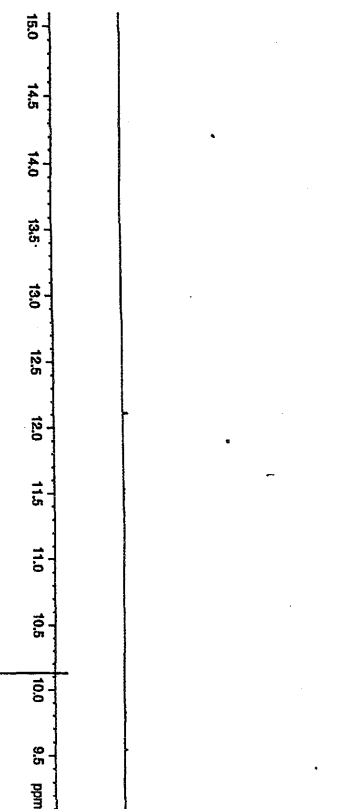


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PL1 8.00
SFO1 75.4758431

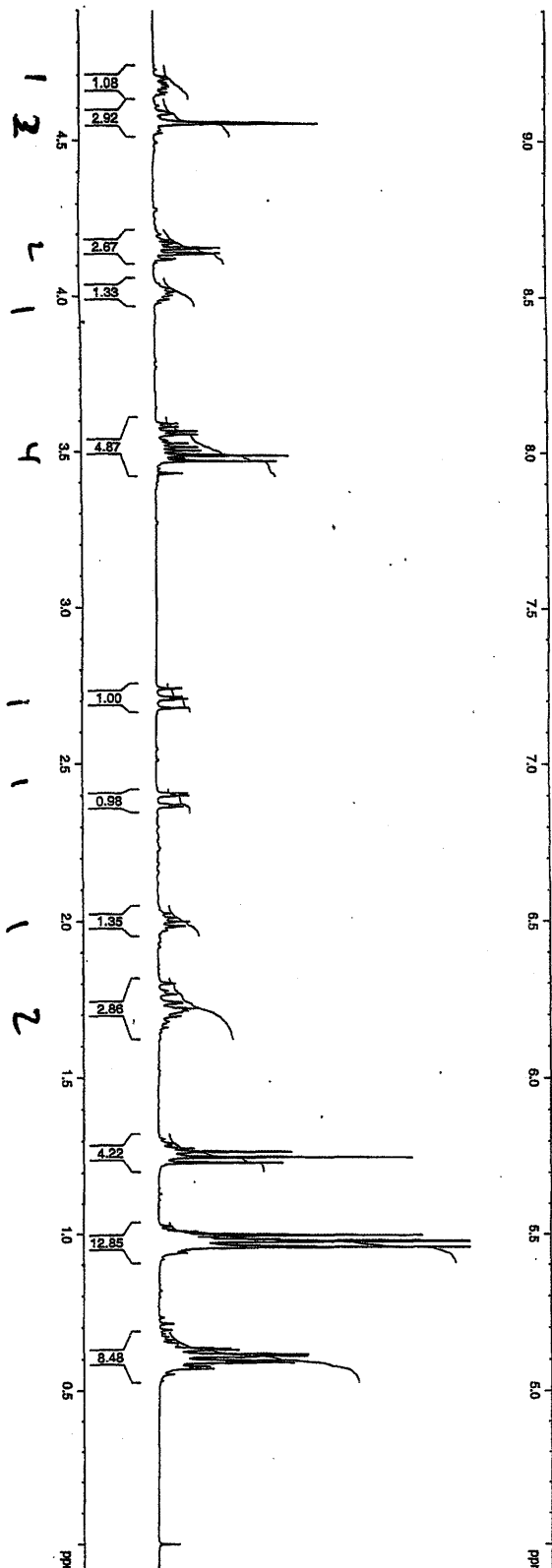
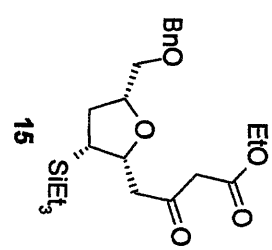
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NUC2 1H
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PL2 -3.00
PL12 15.00
PL13 15.00
SFO2 300.1350010

F2 - Processing param:
SI 32768
SF 75.4675794
WDW EM
SSB 0
LB 1.00
GB 0
PC 1.40

10 NMR plot parameters:
CX 33.00
FIP 220.000
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F2 -10.000
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F9 -754.18
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F12 -754.18
F13 -754.18
F14 -754.18
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12043	12.1149	0.10
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12100	12.1149	0.10

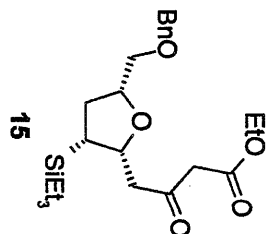


Current Data Parameters
 NAME Jun2020081.045
 P1 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20080620
 Time 16.02
 INSTRUM spect
 PROBO 5 mm PABBO BB/
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 4
 SWH 8278.146 Hz
 FIDRES 0.252629 Hz
 AQ 1.9792372 sec
 RG 40.3
 DW 60.400 usec
 DE 5.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 D11 1

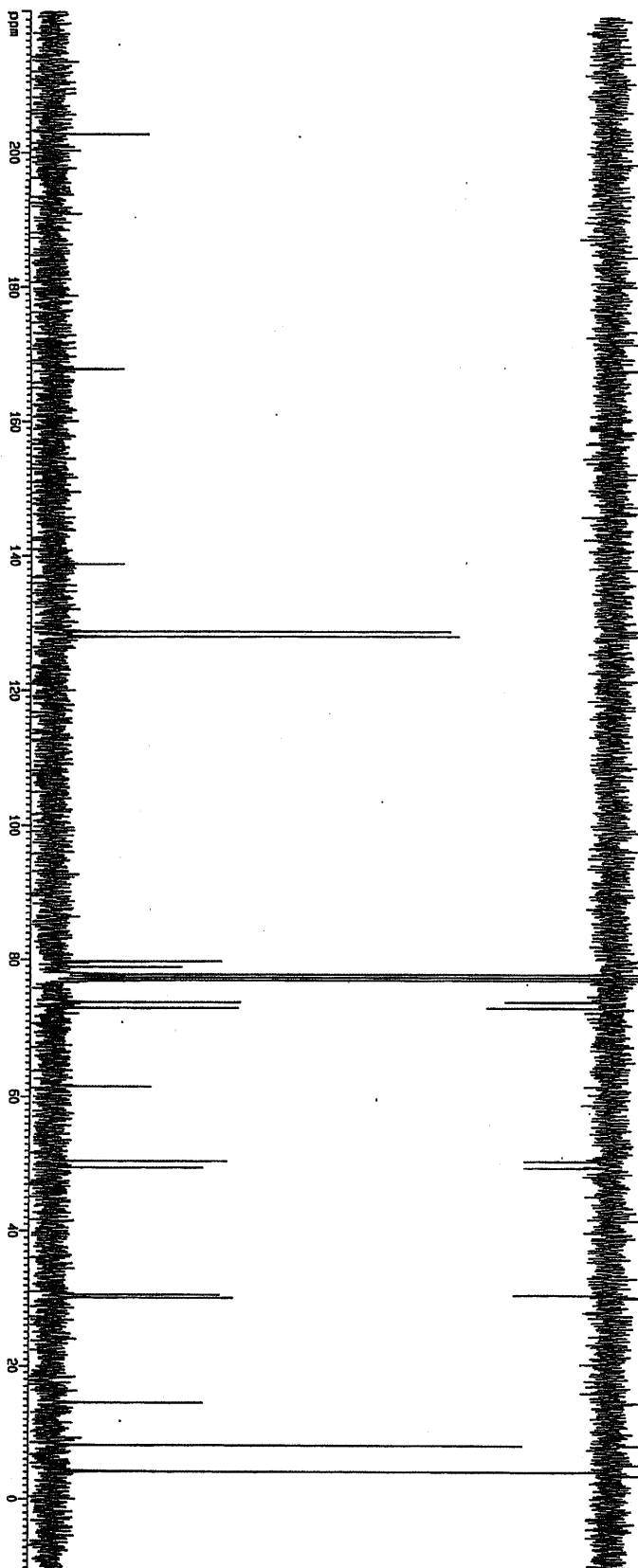
===== CHANNEL f1 =====
 NUC1 1H
 P1 11.25 usec
 PL 3.00 dB
 SFO1 400.1320007 MHz

F2 - Processing parameters
 SI 32768
 SF 400.130072 MHz
 GB 0
 SB -0.10 Hz
 LB 0.3
 GB 4.00
 PC 1



DU-VI USER=chemst, NAME=(U)22A.078, EXPNO=11, PROCNO=1
F1=226.713ppm, F2=8.882ppm, M1=0.00cm, M2=1000.00cm, PC=1.500

#	ADDRESS	FREQUENCY [ppm]	INTENSITY
1	3740.9	15283.086	3.34
2	8453.5	12855.951	2.63
3	12467.8	10458.369	2.48
4	13818.0	9711.313	13.69
5	13825.3	9707.829	14.12
6	13916.8	9655.147	7.52
7	13924.5	9652.987	5.80
8	20508.0	6013.295	4.47
9	20516.8	5953.099	78.9511
10	20767.2	5889.939	77.8480
11	20825.0	5805.033	77.4251
12	20882.8	5805.006	77.0012
13	21322.5	5582.783	73.7747
14	21436.1	5500.211	72.8448
15	22590.2	4640.872	61.4594
16	24501.4	3805.536	50.4897
17	24634.2	3732.080	49.4595
18	27204.2	2311.289	30.6528
19	27256.6	2276.761	30.1948
20	29404.1	1055.064	14.5229
21	30280.7	610.387	8.0552
22	30831.6	311.385	3.76
23	30831.2	308.053	18.50



===== CHANNEL 11 =====
NAME: 11
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 12 =====
NAME: 12
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 13 =====
NAME: 13
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 14 =====
NAME: 14
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 15 =====
NAME: 15
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 16 =====
NAME: 16
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 17 =====
NAME: 17
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 18 =====
NAME: 18
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 19 =====
NAME: 19
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 20 =====
NAME: 20
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 21 =====
NAME: 21
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 22 =====
NAME: 22
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 23 =====
NAME: 23
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 24 =====
NAME: 24
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 25 =====
NAME: 25
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 26 =====
NAME: 26
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 27 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 28 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 29 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 30 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 31 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 32 =====
NAME: 32
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 33 =====
NAME: 33
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 34 =====
NAME: 34
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 35 =====
NAME: 35
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 36 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 37 =====
NAME: 37
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 38 =====
NAME: 38
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 39 =====
NAME: 39
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 40 =====
NAME: 40
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 41 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 42 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 43 =====
NAME: 43
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 44 =====
NAME: 44
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 45 =====
NAME: 45
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 46 =====
NAME: 46
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 47 =====
NAME: 47
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 48 =====
NAME: 48
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 49 =====
NAME: 49
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 50 =====
NAME: 50
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 51 =====
NAME: 51
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 52 =====
NAME: 52
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 53 =====
NAME: 53
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 54 =====
NAME: 54
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 55 =====
NAME: 55
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 56 =====
NAME: 56
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 57 =====
NAME: 57
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 58 =====
NAME: 58
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 59 =====
NAME: 59
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 60 =====
NAME: 60
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 61 =====
NAME: 61
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 62 =====
NAME: 62
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 63 =====
NAME: 63
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 64 =====
NAME: 64
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 65 =====
NAME: 65
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 66 =====
NAME: 66
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 67 =====
NAME: 67
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 68 =====
NAME: 68
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 69 =====
NAME: 69
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 70 =====
NAME: 70
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 71 =====
NAME: 71
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 72 =====
NAME: 72
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 73 =====
NAME: 73
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 74 =====
NAME: 74
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 75 =====
NAME: 75
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 76 =====
NAME: 76
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 77 =====
NAME: 77
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 78 =====
NAME: 78
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 79 =====
NAME: 79
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 80 =====
NAME: 80
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 81 =====
NAME: 81
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 82 =====
NAME: 82
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 83 =====
NAME: 83
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 84 =====
NAME: 84
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 85 =====
NAME: 85
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 86 =====
NAME: 86
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 87 =====
NAME: 87
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 88 =====
NAME: 88
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 89 =====
NAME: 89
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 90 =====
NAME: 90
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 91 =====
NAME: 91
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 92 =====
NAME: 92
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 93 =====
NAME: 93
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 94 =====
NAME: 94
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 95 =====
NAME: 95
P1: 13.26
P2: 0.00
SFO1: 75.4106393

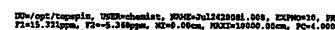
===== CHANNEL 96 =====
NAME: 96
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 97 =====
NAME: 97
P1: 13.26
P2: 0.00
SFO1: 75.4106393

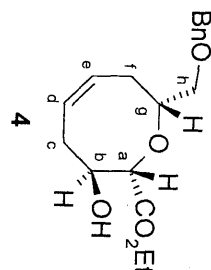
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P1: 13.26
P2: 0.00
SFO1: 75.4106393

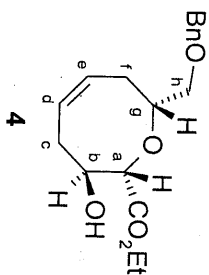
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NAME: 99
P1: 13.26
P2: 0.00
SFO1: 75.4106393

===== CHANNEL 100 =====
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P1: 13.26
P2: 0.00
SFO1: 75.4106393



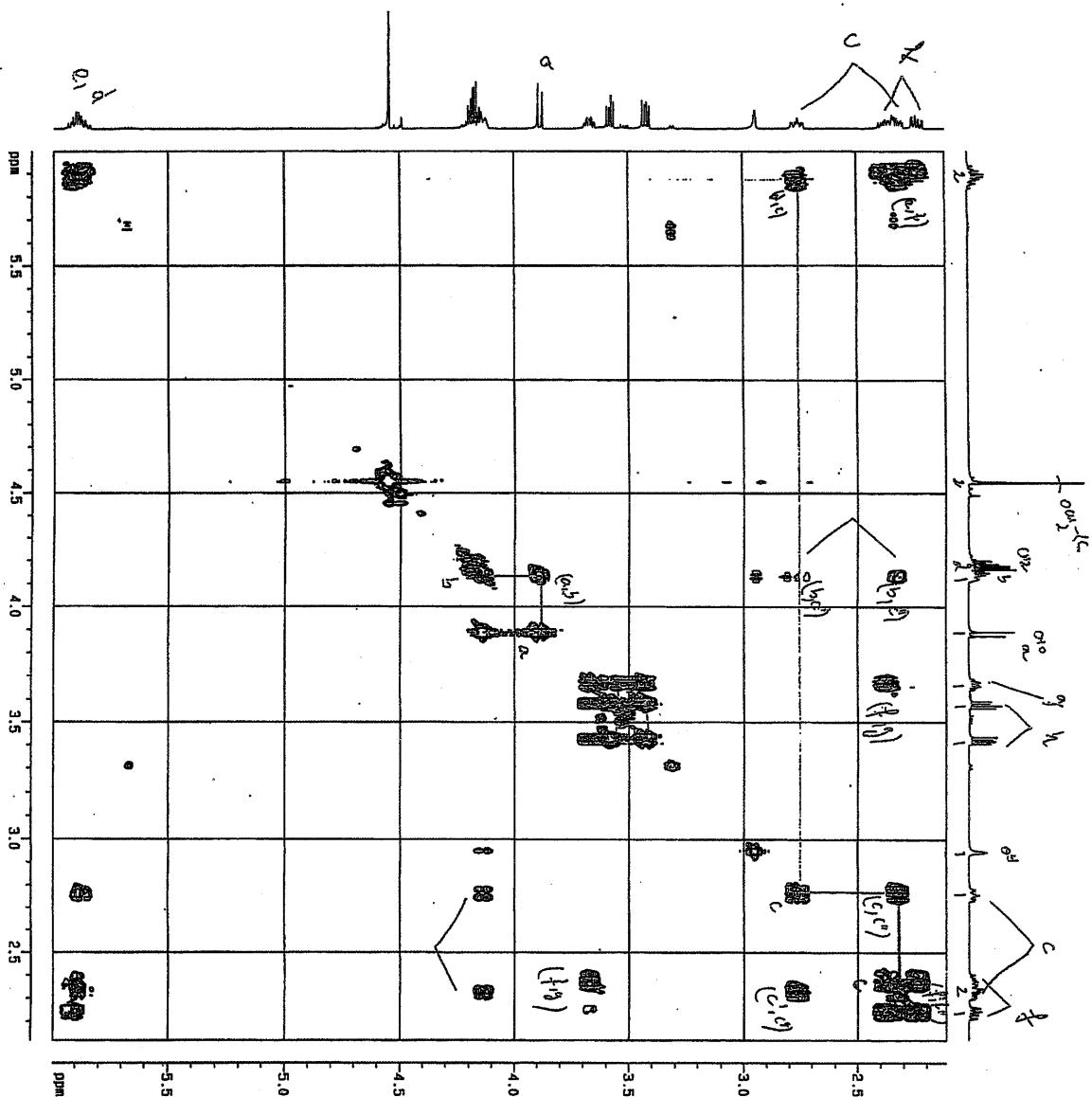
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1	61664	3018-546	7-3426	0-03
2	63813	2788-768	7-3426	0-03
3	63821	2788-768	7-3445	8-01
4	63774	2845-265	7-3445	8-02
5	63800	2845-265	7-3445	8-02
6	63800	2845-265	7-3445	8-02
7	63814	2838-719	7-3446	8-07
8	63814	2838-719	7-3446	8-07
9	63814	2838-719	7-3446	8-07
10	63814	2838-719	7-3446	8-07
11	63840	2920-472	7-3446	8-07
12	63840	2920-472	7-3446	8-07
13	63840	2924-843	7-3591	9-12
14	63840	2924-843	7-3591	9-12
15	63840	2916-843	7-3589	9-14
16	63840	2916-843	7-3589	9-14
17	63840	2911-894	7-3776	9-11
18	63840	2911-894	7-3776	9-11
19	63840	2907-955	7-3653	9-07
20	63840	2907-955	7-3653	9-07
21	63840	2903-451	7-3563	9-07
22	63840	2903-451	7-3563	9-07
23	64718	1860-129	7-1480	0-02
24	64718	1860-129	7-1480	0-02
25	65020	2779-320	6-7990	0-02
26	65020	2779-320	6-7990	0-02
27	74111	2286-277	5-3620	0-34
28	74111	2286-277	5-3620	0-34
29	74111	2278-505	5-7568	0-07
30	74111	2278-505	5-7568	0-07
31	74848	2607-919	5-9014	1-89
32	74848	2607-919	5-9014	1-89
33	74848	2582-345	5-9083	0-61
34	74848	2582-345	5-9083	0-61
35	74848	2582-345	5-9083	0-61
36	74848	2582-345	5-9083	0-61
37	74848	2582-345	5-9083	0-61
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41	74848	2582-345	5-9083	0-61
42	74848	2582-345	5-9083	0-61
43	74848	2582-345	5-9083	0-61
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45	74848	2582-345	5-9083	0-61
46	74848	2582-345	5-9083	0-61
47	74848	2582-345	5-9083	0-61
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74	74848	2582-345	5-9083	0-61
75	74848	2582-345	5-9083	0-61
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96	74848	2582-345	5-9083	0-61
97	74848	2582-345	5-9083	0-61
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99	74848	2582-345	5-9083	0-61
100	74848	2582-345	5-9083	0-61



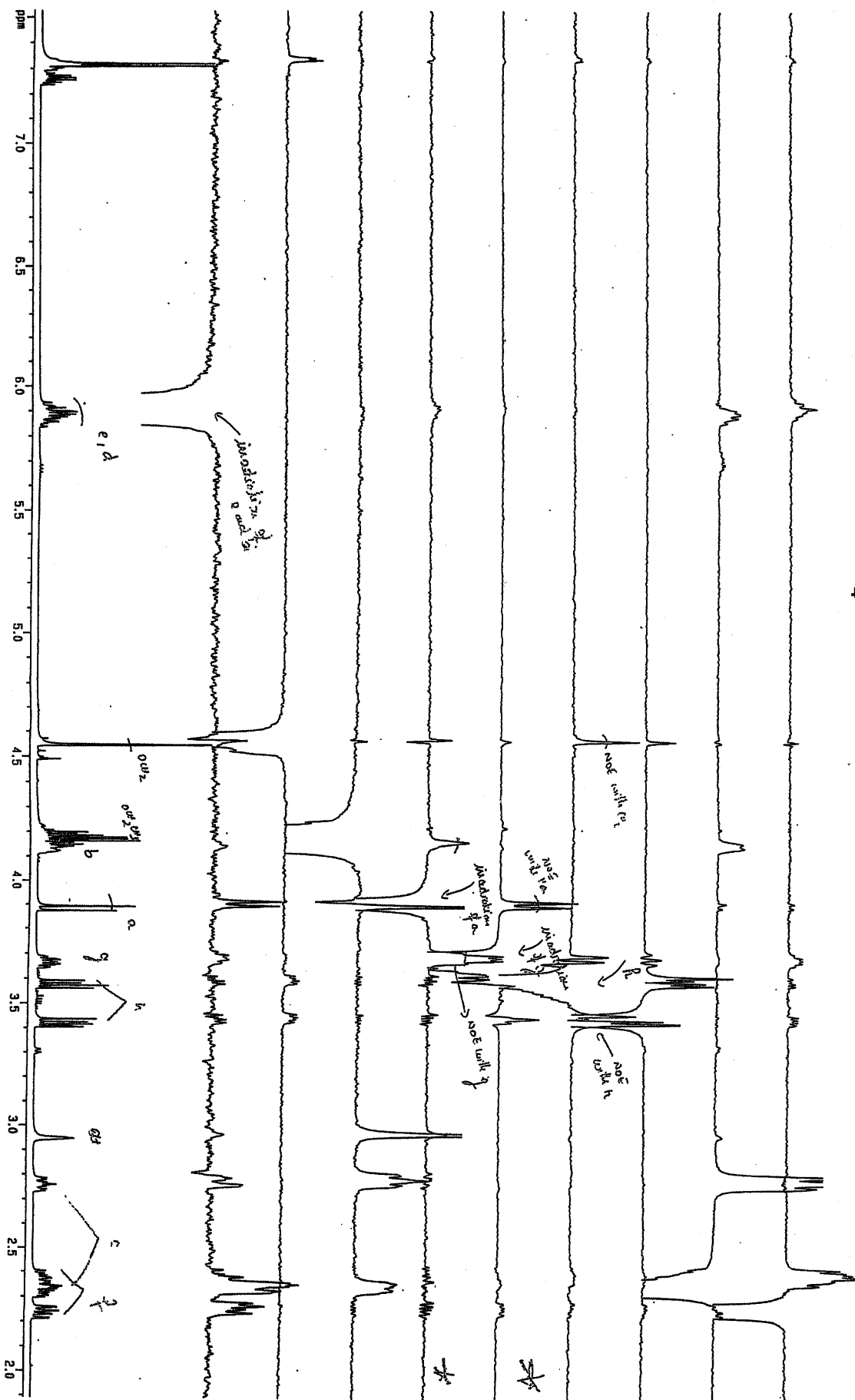
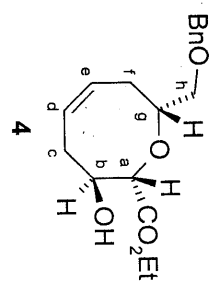


Instrument amc
mf70184 L1 80091-153B cdc13 1p 170540

copy

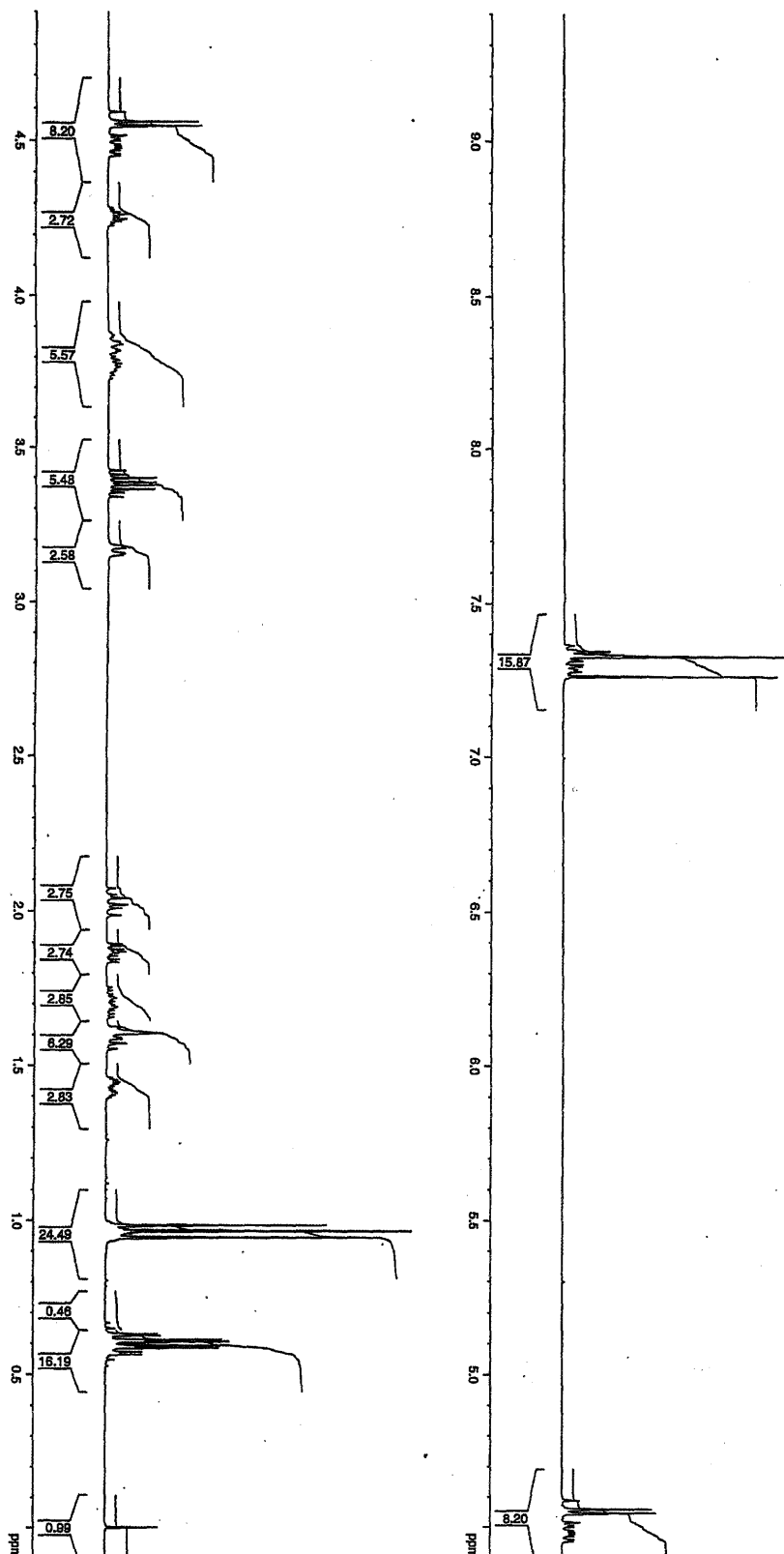
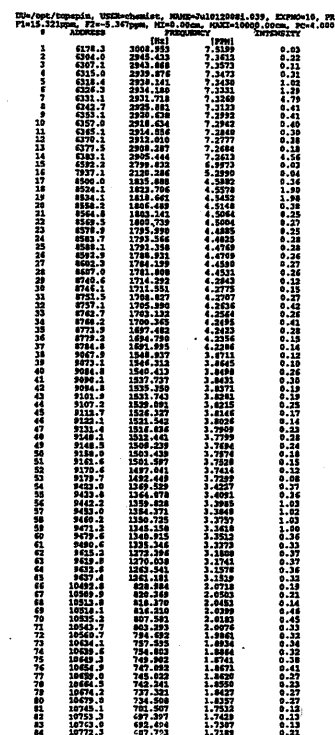


NAME	Current Data Parameters
EXPNO	1
PROCNO	1
DATA	5.01
INSTRUM	5 mm NMR
PROBHD	5 mm NMR
TD	32768
TE	300.2
SOLVENT	DMSO
NS	2
DS	4
SWH	124.400 MHz
F2	124.400 MHz
F1	124.400 MHz
NUC1	13C
NUC2	13C
NUC3	13C
NUC4	13C
NUC5	13C
NUC6	13C
NUC7	13C
NUC8	13C
NUC9	13C
NUC10	13C
NUC11	13C
NUC12	13C
NUC13	13C
NUC14	13C
NUC15	13C
NUC16	13C
NUC17	13C
NUC18	13C
NUC19	13C
NUC20	13C
NUC21	13C
NUC22	13C
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NUC30	13C
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NUC95	13C
NUC96	13C
NUC97	13C
NUC98	13C
NUC99	13C
NUC100	13C



CC(C)(C)O[C@H]1C[C@@H](C)[C@H](CO)[C@@H]1CO

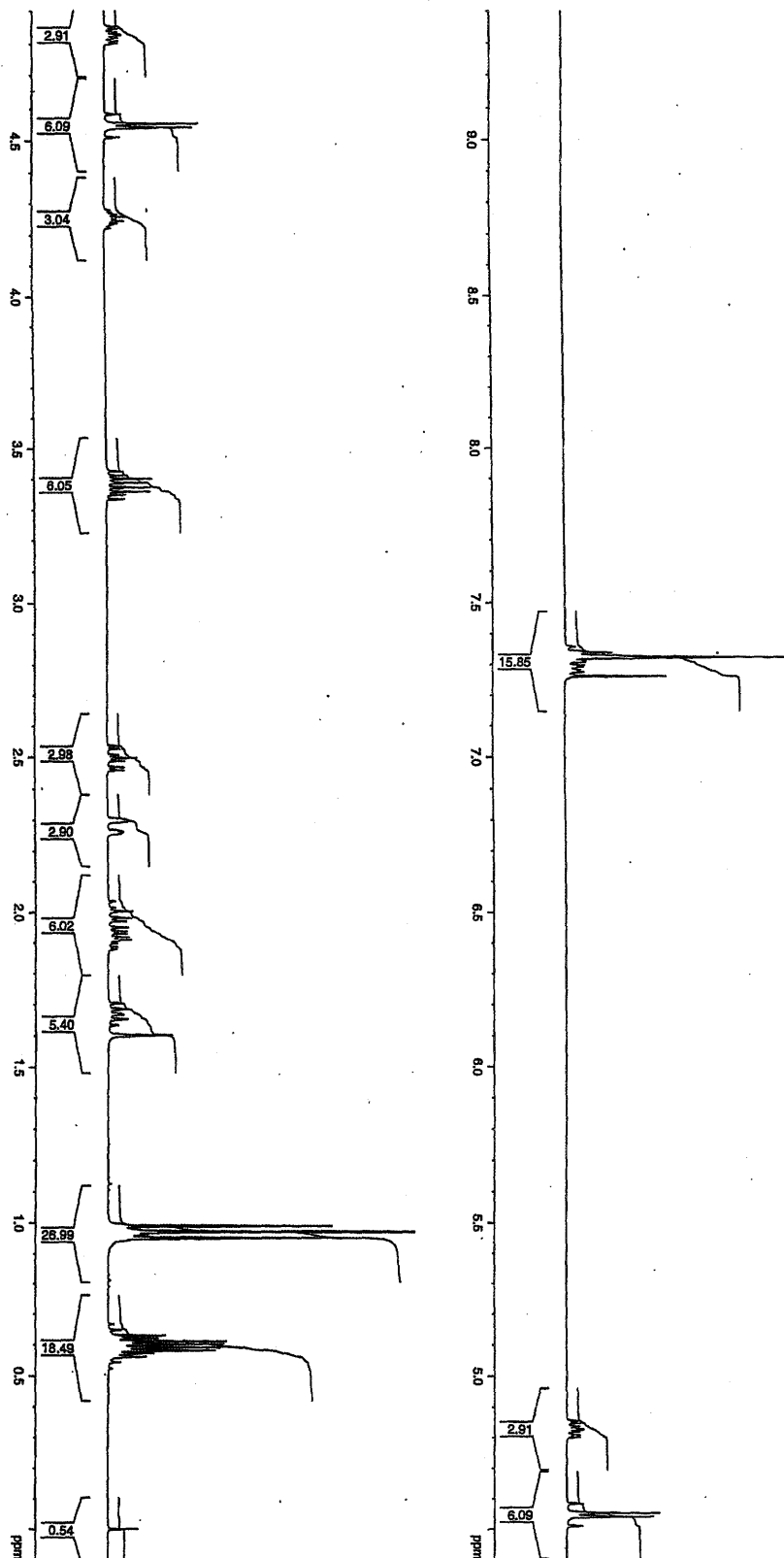
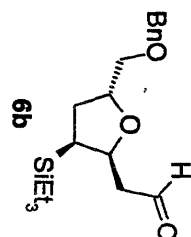
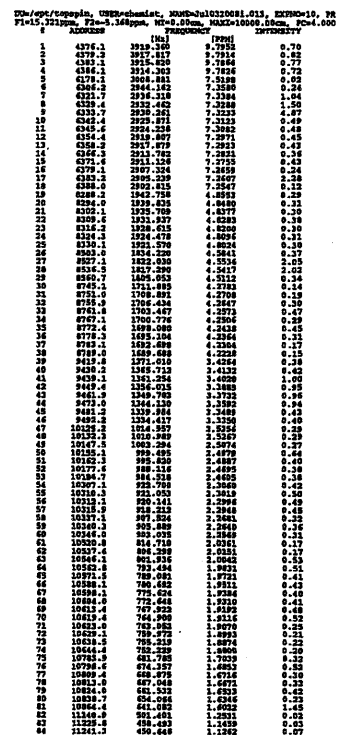
150 14.5 14.0 13.5 13.0 12.5 12.0 11.5 11.0 10.5 10.0 9.5 ppm



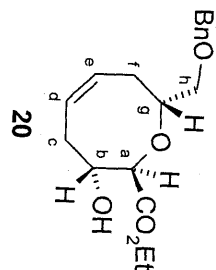
Current	Data	Parameters
NAME	010120081_035	
EXTNO	10	
PRGNO	1	
P2 - Acquisition	Parameters	
Date_	20080701	
Time	14:22	
PROBHD	5 mm PABBO BB1	
PROBPG	2930	
TD	32766	
SOLVENT	CDCl3	
DS	2	
SWH	8278.16 Hz	
F1FMS	0.232629 Hz	
Q4	1.9792175 sec	
DS	56.400 usec	
TE	5.00 usec	
TS	300.0 K	
TD0	1.00000000 sec	
	1	

	CHANNEL	F1	IF
NUC1		11.25	usec
P1		3.00	GB
P1A			
SP01	400.1320007		MHz

P2 - Processing parameters	
SI	16384
SP	400.1300092
WDW	GM
SSB	0
GB	-0.10
GB	0.3
PC	4.00
	Hz



Current	Data Parameters
NAME	JULIO20081_013
EXPNO	10
F2 - Acquisition Parameters	
Date_	20080703
Time	10-21
Instrum	siemens
Pulseprog	5 mm PABBO BBD
PROBHD	spect-
TD	3768
SOLVENT	CDC13
NS	16
DS	4
SWH	8278.146 Hz
FIDRES	0.252425 Hz
PTNRES	1.979132 Hz
NUC1	¹ H
NUC2	¹³ C
DW	60.400 usec
DE	6.00 usec
TE	300.0 K
D1	1.00000000 sec
TDO	1
CHANNEL F1	
NUC1	¹ H
PULPRG	1J25 usec
FLA	3.00 dB
SPFO1	400.1320007 MHz
F2 - Processing parameters	
WDW	EM
SSB	400.1300851 MHz
GB	0
BK	-0.10 Hz
CF	0.3
GC	4.00

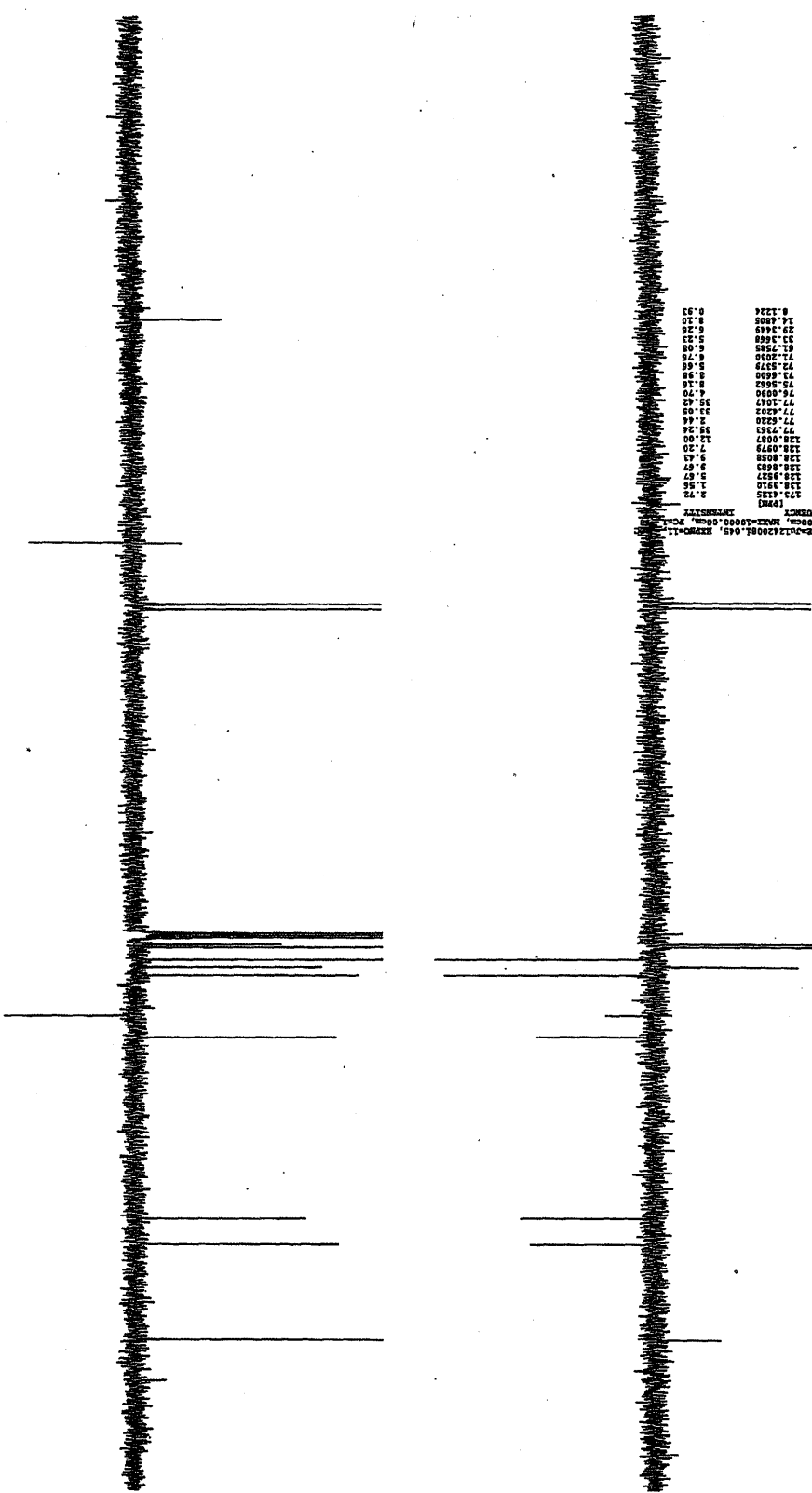


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F1=10.130000, F2=10.130000, M0=2.0000, M0X2=10000.0000, PC=4.000
FREQ=100.625

Frequency	Intensity
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15.29	1.00
15.28	1.00
15.27	1.00
15.26	1.00
15.25	1.00
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15.19	1.00
15.18	1.00
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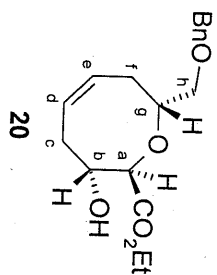
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DATE	DESCRIPTION	AMOUNT	BALANCE
12/31/2017	ENDING BALANCE	10,000.00	10,000.00
12/30/2017	DEPOSIT	500.00	10,500.00
12/29/2017	DEPOSIT	500.00	11,000.00
12/28/2017	DEPOSIT	500.00	11,500.00
12/27/2017	DEPOSIT	500.00	12,000.00
12/26/2017	DEPOSIT	500.00	12,500.00
12/25/2017	DEPOSIT	500.00	13,000.00
12/24/2017	DEPOSIT	500.00	13,500.00
12/23/2017	DEPOSIT	500.00	14,000.00
12/22/2017	DEPOSIT	500.00	14,500.00
12/21/2017	DEPOSIT	500.00	15,000.00
12/20/2017	DEPOSIT	500.00	15,500.00
12/19/2017	DEPOSIT	500.00	16,000.00
12/18/2017	DEPOSIT	500.00	16,500.00
12/17/2017	DEPOSIT	500.00	17,000.00
12/16/2017	DEPOSIT	500.00	17,500.00
12/15/2017	DEPOSIT	500.00	18,000.00
12/14/2017	DEPOSIT	500.00	18,500.00
12/13/2017	DEPOSIT	500.00	19,000.00
12/12/2017	DEPOSIT	500.00	19,500.00
12/11/2017	DEPOSIT	500.00	20,000.00
12/10/2017	DEPOSIT	500.00	20,500.00
12/09/2017	DEPOSIT	500.00	21,000.00
12/08/2017	DEPOSIT	500.00	21,500.00
12/07/2017	DEPOSIT	500.00	22,000.00
12/06/2017	DEPOSIT	500.00	22,500.00
12/05/2017	DEPOSIT	500.00	23,000.00
12/04/2017	DEPOSIT	500.00	23,500.00
12/03/2017	DEPOSIT	500.00	24,000.00
12/02/2017	DEPOSIT	500.00	24,500.00
12/01/2017	DEPOSIT	500.00	25,000.00
11/30/2017	DEPOSIT	500.00	25,500.00
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11/28/2017	DEPOSIT	500.00	26,500.00
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11/18/2017	DEPOSIT	500.00	31,500.00
11/17/2017	DEPOSIT	500.00	32,000.00
11/16/2017	DEPOSIT	500.00	32,500.00
11/15/2017	DEPOSIT	500.00	33,000.00
11/14/2017	DEPOSIT	500.00	33,500.00
11/13/2017	DEPOSIT	500.00	34,000.00
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11/03/2017	DEPOSIT	500.00	39,000.00
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09/29/2017	DEPOSIT	500.00	56,500.00
09/28/2017	DEPOSIT	500.00	57,000.00
09/27/2017	DEPOSIT	500.00	57,500.00
09/26/2017	DEPOSIT	500.00	58,000.00
09/25/2017	DEPOSIT	500.00	58,500.00
09/24/2017	DEPOSIT	500.00	59,000.00
09/23/2017	DEPOSIT	500.00	59,500.00
09/22/2017	DEPOSIT	500.00	60,000.00
09/21/2017	DEPOSIT	500.00	60,500.00
09/20/2017	DEPOSIT	500.00	61,000.00
09/19/2017	DEPOSIT	500.00	61,500.00
09/18/2017	DEPOSIT	500.00	62,000.00
09/17/2017	DEPOSIT	500.00	62,500.00
09/16/2017	DEPOSIT	500.00	63,000.00
09/15/2017	DEPOSIT	500.00	63,500.00
09/14/2017	DEPOSIT	500.00	64,000.00
09/13/2017	DEPOSIT	500.00	64,500.00
09/12/2017	DEPOSIT	500.00	65,000.00
09/11/2017	DEPOSIT	500.00	65,500.00
09/10/2017	DEPOSIT	500.00	66,000.00
09/09/2017	DEPOSIT	500.00	66,500.00
09/08/2017	DEPOSIT	500.00	67,000.00
09/07/2017	DEPOSIT	500.00	67,500.00
09/06/2017	DEPOSIT	500.00	68,000.00
09/05/2017	DEPOSIT	500.00	68,500.00
09/04/2017	DEPOSIT	500.00	69,000.00
09/03/2017	DEPOSIT	500.00	69,500.00
09/02/2017	DEPOSIT	500.00	70,000.00
09/01/2017	DEPOSIT	500.00	70,500.00
08/31/2017	DEPOSIT	500.00	71,000.00
08/30/2017	DEPOSIT	500.00	71,500.00
08/29/2017	DEPOSIT	500.00	72,000.00
08/28/2017	DEPOSIT	500.00	72,500.00
08/27/2017	DEPOSIT	500.00	73,000.00
08/26/2017	DEPOSIT	500.00	73,500.00
08/25/2017	DEPOSIT	500.00	74,000.00
08/24/2017	DEPOSIT	500.00	74,500.00
08/23/2017	DEPOSIT	500.00	75,000.00
08/22/2017	DEPOSIT	500.00	75,500.00
08/21/2017	DEPOSIT	500.00	76,000.00
08/20/2017	DEPOSIT	500.00	76,500.00
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07/17/2017	DEPOSIT	500.00	93,500.00
07/16/2017	DEPOSIT	500.00	94,000.00
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05/08/2017	DEPOSIT	500.00	128,500.00
05/07/2017	DEPOSIT	500.00	129,000.00
05/06/2017	DEPOSIT	500.00	129,500.00
05/05/2017	DEPOSIT	500.00	130,000.00</

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[illegible]



MR97540 00
 Jim Li
 NTRK PR99137-114
 LR 206557

29 JUL 2008

