

Supporting Information

for

**Iodoarene-catalyzed cyclizations of *N*-propargylamides
and β -amidoketones: synthesis of 2-oxazolines**

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Full experimental details, characterization data and copies of NMR spectra

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General: ^1H NMR spectra were recorded at 400 MHz in CDCl_3 unless otherwise stated. Chemical shifts are reported in ppm from tetramethylsilane with the solvent resonance as the internal standard (CDCl_3 : 7.26 ppm). Data are reported as follows: chemical shift, integration, multiplicity (s = singlet, d = doublet, t = triplet, q = quartet, br = broad, m = multiplet), and coupling constants (Hz). ^{13}C NMR were recorded at 100 MHz in CDCl_3 unless otherwise stated with complete proton decoupling. Chemical shifts are reported in ppm from tetramethylsilane with the solvent as the internal standard (CDCl_3 : 77.4 ppm). Mass spectrometry (m/z) was performed in ESI mode, with only molecular ions being reported. Infrared (IR) spectra ν_{max} are reported in cm^{-1} . Bands are characterized as broad (br), strong (s), medium (m) and weak (w). All purchased reagents were used as received without further purification. Petroleum ether refers to the fraction boiling at 40–60 °C. Characterization data for known compounds matched the literature values: **4a**,¹ **4b**,¹ **4d**,² **4e**,³ **4g**,³ **4h**,² **4i**,³ **5a**,⁴ **5i**,³ **5k**,⁵ **5n**,⁶ **5o**.⁷

Preparation of 4-chloro-*N*-(3-phenylprop-2-yn-1-yl)benzamide, 4c: 4-Chlorobenzoyl chloride (0.23 mL, 1.8 mmol) was added dropwise to an ice cooled solution of 3-phenyl-2-propyn-1-amine·HCl (0.30 g, 1.8 mmol) and triethylamine (0.50 mL, 3.6 mmol) in CH_2Cl_2 (10 mL) and the mixture was stirred overnight at room temperature. The mixture was washed with water and extracted with CH_2Cl_2 (3×10 mL). The organic layers were dried over anhydrous MgSO_4 and the solvents were removed under vacuum to give **4c** as a white solid (0.48 g, 99% yield). Mp: 157-158 °C. IR: 3257 (br), 3073 (w), 1633 (s), 1545 (s), 1487 (s), 1299 (m), 1093 (m), 751 (s) cm^{-1} . ^1H NMR: δ 4.48 (2H, d, $J = 5.1$ Hz), 6.37 (1H, br), 7.28-7.35 (3H, m), 7.40-7.46 (4H, m), 7.76 (2H, d, $J = 8.2$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 31.1, 84.3, 84.8, 122.7, 128.7 (2C), 128.9 (2C), 129.0, 129.3 (2C), 132.1 (2C), 132.6, 138.4, 166.4. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{16}\text{H}_{13}\text{ClNO}$ 270.0680; Found 270.0680.

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Preparation of *N*-(3-([1,1'-biphenyl]-2-yl)prop-2-yn-1-yl)benzamide, 4f: *N*-(Prop-2-yn-1-yl)benzamide (0.70 g, 6.3 mmol) was added to a mixture of 2-iodobiphenyl (0.70 mL, 4.0 mmol), PdCl₂(PPh₃)₂ (0.62 g, 0.88 mmol) and Et₃N (1.8 mL, 13 mmol) in dry THF (10 mL) at room temperature under N₂. The mixture was left to stir for 5 min then CuI (0.08 g, 0.44 mmol) was added. After stirring overnight at room temperature the solvent was removed by rotary evaporation, and the crude product was purified by flash column chromatography (5:1 petroleum ether/EtOAc) to give **4f** as a light brown solid (0.48 g, 24% yield). Mp: 113-115 °C. IR: 3290 (br), 1630 (s), 1525(s), 1301 (m), 1077 (w), 690 (s) cm⁻¹. ¹H NMR: δ 4.35 (2H, d, *J* = 5.0 Hz), 6.10 (1H, br), 7.28-7.34 (2H, m), 7.35-7.41 (4H, m), 7.44 (2H, t, *J* = 7.5 Hz), 7.50-7.60 (4H, m), 7.72 (2H, d, *J* = 7.8 Hz). ¹³C {¹H} NMR: δ 31.2, 84.0, 87.8, 121.2, 127.3 (2C), 127.4, 127.9, 128.3 (2C), 128.9 (2C), 129.1, 129.6 (2C), 129.8, 132.1, 133.2, 134.2, 140.9, 144.4, 167.3. HRMS (ESI-TOF) *m/z*: [M+H]⁺ Calcd for C₂₂H₁₈NO 312.1383; Found 312.1392.

General procedure for the synthesis of 7: Preparation of ethyl 2-((4-methoxybenzamido)methyl)-3-oxo-3-phenylpropanoate, 7b. A mixture of *N*-(hydroxymethyl)-4-methoxybenzamide (2.0 g, 11 mmol, 1 equiv) and ethyl benzoylacetoacetate (1.9 mL, 11 mmol, 1 equiv) was cooled to 0 °C and BF₃·OEt₂ solution (2.7 mL, 22 mmol, 2 equiv) was added slowly with stirring. The reaction mixture was left to stir at room temperature for 2 h. The resulting mixture was added to a solution of sodium acetate (4 g) in water (8 mL) mixed well and allowed to separate. The aqueous layer was extracted twice with CH₂Cl₂ (10 mL). The organic layers were dried over anhydrous MgSO₄ and the solvents were removed under vacuum to provide **7b** as a yellow wax (3.7 g, 94%). IR: 3341 (br), 2979 (w), 2931 (w), 1731 (m), 1636 (m), 1499 (s) cm⁻¹. ¹H NMR: δ 1.15 (3H, t, *J* = 7.1 Hz), 3.80 (3H, s), 3.85-3.94 (1H, m), 4.04-4.19 (3H, m), 4.89 (1H, t, *J* = 6.7 Hz), 6.85-6.94 (3H, m), 7.48 (2H, t, *J* = 7.5 Hz), 7.58 (1H, t, *J* = 7.5 Hz), 7.71 (2H, d, *J* = 8.8 Hz),

8.09 (2H, d, $J = 7.5$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 14.0, 30.9, 39.3, 53.6, 55.4, 61.8, 113.8 (2C), 126.3, 128.9 (2C), 129.0 (3C), 134.1, 135.8, 162.4, 167.6, 169.2, 194.9. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{20}\text{H}_{22}\text{NO}_5$ 356.1492; Found 356.1498.

Ethyl 2-(benzamidomethyl)-3-(4-chlorophenyl)-3-oxopropanoate, 7e. Yield: 81% (3.1 g). Colorless oil. IR: 3342 (br), 3067 (w), 1729 (s), 1639 (s), 1525 (m), 1091 (s) cm^{-1} . ^1H NMR: δ 1.11 (3H, t, $J = 7.1$ Hz), 3.90 (1H, ddd, $J = 14, 7.2, 6.4$ Hz), 4.02 (1H, dd, $J = 13, 6.6$ Hz), 4.09 (2H, dq, $J = 7.1, 2.5$ Hz), 4.89 (1H, t, $J = 6.7$ Hz), 7.26-7.45 (6H, m), 7.72 (2H, t, $J = 8.1$ Hz), 7.99 (2H, d, $J = 8.5$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 14.1, 39.3, 53.5, 62.0, 127.2 (2C), 128.7 (2C), 129.3 (2C), 130.5 (2C), 131.9, 133.9, 134.2, 140.7, 168.2, 168.9, 193.8. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{19}\text{H}_{19}\text{ClNO}_4$ 360.0997; Found 360.0991.

Ethyl 2-(benzamidomethyl)-3-(furan-2-yl)-3-oxopropanoate, 7j. Yield: 46% (1.2 g). White solid. Mp: 110-112 $^{\circ}\text{C}$. IR: 3364 (br), 3133 (w), 2979 (w), 1723 (m), 1639 (s), 1275 cm^{-1} . ^1H NMR δ 1.12 (3H, t, $J = 7.1$ Hz), 3.98 (1H, ddd, $J = 14, 7.3, 6.4$ Hz), 4.04 (1H, ddd, $J = 14, 7.3, 6.4$ Hz), 4.19 (2H, dq, $J = 7.3, 1.4$ Hz), 4.61 (1H, t, $J = 6.4$ Hz), 6.58 (1H, dd, $J = 3.7, 1.6$ Hz), 6.86 (1H, br), 7.38-7.46 (3H, m), 7.46-7.52 (1H, m), 7.63-7.66 (1H, m), 7.70-7.76 (2H, m). ^{13}C $\{^1\text{H}\}$ NMR: δ 14.3, 38.9, 53.6, 62.2, 113.2, 120.2, 127.3 (2C), 128.9 (2C), 131.9, 134.3, 148.0, 151.9, 167.9, 168.9, 183.1. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{17}\text{H}_{18}\text{NO}_5$ 316.1179; Found 316.1179.

Ethyl 2-(benzamidomethyl)-3-oxopentanoate, 7l. Yield: 55% (2.2 g). White wax. IR: 3363 (br), 2939 (w), 1736 (s), 1630 (m), 1524 (s), 717 (s) cm^{-1} . ^1H NMR: δ 0.98 (3H, t, $J = 7.3$ Hz), 1.17 (3H, t, $J = 7.3$ Hz), 2.46-2.67 (2H, m), 3.82 (2H, dt, $J = 6.2, 2.0$ Hz), 3.96 (1H, t, $J = 6.3$ Hz), 4.10 (2H, q, $J = 7.1\text{Hz}$), 7.13 (1H, br), 7.31 (2H, t, $J = 7.6$ Hz), 7.40 (1H, t, $J = 7.3$ Hz), 7.68 (2H, d, $J = 8.1$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 7.7, 14.2, 36.3, 38.2, 57.4, 61.8, 127.2 (2C),

128.7 (2C), 131.7, 134.2, 167.8, 168.9, 205.6. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{15}H_{20}NO_4$ 278.1387; Found 278.1391.

Ethyl 2-(benzamidomethyl)-2-methyl-3-oxopentanoate, 7m. Yield: 82% (3.0 g). Light yellow oil. IR: 3345 (br), 2985 (w), 1735 (s), 1645 (m), 1525 (m), 1242 (s) cm^{-1} . 1H NMR: δ 1.06 (3H, t, $J = 7.1$ Hz), 1.28 (3H, s), 2.05 (3H, s), 3.63-3.77 (2H, m), 3.97-4.01 (2H, m), 6.99 (1H, br), 7.21 (2H, t, $J = 6.3$ Hz), 7.29 (1H, t, $J = 7.6$ Hz), 7.56 (2H, d, $J = 7.4$ Hz). ^{13}C $\{^1H\}$ NMR: δ 13.8, 17.9, 26.2, 43.3, 60.3, 61.7, 126.9 (2C), 128.4 (2C), 134.2, 167.6, 171.7, 205.7. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{15}H_{20}NO_4$ 278.1387; Found 278.1392.

Ethyl 2-((4-nitrobenzamido)methyl)-3-oxo-3-phenylpropanoate, 7p. Yield: 39% (1.33 g). White solid. Mp: 141-144 °C. IR: 3376 (m), 3064 (w), 1725 (s), 1666 (m), 1520 (s), 1198 (s) cm^{-1} . 1H NMR: δ 1.19 (3H, t, $J = 7.1$ Hz), 3.94-4.03 (1H, m), 4.10-4.25 (3H, m), 4.83 (1H, t, $J = 6.0$), 7.05 (1H, br), 7.52 (2H, t, $J = 8.1$ Hz), 7.63 (1H, t, $J = 8.1$ Hz), 7.90 (2H, d, $J = 8.6$ Hz), 8.06 (2H, d, $J = 7.8$ Hz), 8.26 (2H, d, $J = 8.6$ Hz). ^{13}C $\{^1H\}$ NMR: δ 14.2, 39.4, 53.4, 62.4, 124.2 (2C), 128.6 (2C), 129.2 (2C), 129.3 (2C), 134.6, 135.8, 139.9, 150.0, 166.1, 169.2, 194.9. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{19}H_{19}N_2O_6$ 371.1238; Found 371.1250.

General procedure for the synthesis of β -amidoketones 5: Preparation of 4-methoxy-*N*-(3-oxo-3-phenylpropyl)benzamide, 5b. A flask was charged with **7b** (1.67 g, 4.69 mmol, 1 equiv), LiCl (0.69 g, 16 mmol, 3.5 equiv), H_2O (2.6 mL) and DMSO (35 mL) at room temperature. The solution was stirred for 24 h at 160 °C. The resulting solution was cooled to room temperature and diluted with water (20 mL). The mixture was extracted with diethyl ether (20 mL $\times$ 3). The combined organic extracts were dried over $MgSO_4$, filtered and concentrated under vacuum. The residue was purified by flash chromatography (3:1 petroleum ether/EtOAc) to provide **5b** as a yellow solid (0.54 g, 41%). Mp: 110-114 °C. IR:

3395 (br), 2932 (w), 1678 (m), 1503 (m), 1176 (s), 845 (m) cm^{-1} . ^1H NMR: δ 3.34 (2H, t, J = 5.5 Hz), 3.83 (3H, s), 3.87 (2H, q, J = 5.6 Hz), 6.84-6.92 (3H, m), 7.47 (2H, t, J = 7.5 Hz), 7.58 (1H, t, J = 7.5 Hz), 7.72 (2H, d, J = 8.8 Hz), 7.97 (2H, d, J = 8.4 Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 35.1, 38.5, 55.6, 113.9 (2C), 126.9, 128.3 (2C), 128.9 (2C), 129.0 (2C), 133.7, 136.7, 162.3, 167.3, 199.9. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{17}\text{H}_{18}\text{NO}_3$ 284.1281; Found 284.1280.

***N*-(3-(4-Chlorophenyl)-3-oxopropyl)benzamide, 5e.** Yield: 29% (0.21 g). White solid. Mp: 119-122 °C. IR: 3237 (br), 2924 (w), 1673 (m), 1297 (m), 1104 (s), 692 (s) cm^{-1} . ^1H NMR: δ 3.28 (2H, t, J = 5.5 Hz), 3.84 (2H, q, J = 5.7 Hz), 7.06 (1H, br), 7.33-7.48 (5H, m), 7.74 (2H, d, J = 7.7 Hz), 7.86 (2H, d, J = 7.7 Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 35.2, 38.5, 127.2 (2C), 128.8 (2C), 129.3 (2C), 129.8 (2C), 131.2, 134.6, 135.0, 140.3, 167.8, 198.7. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{16}\text{H}_{15}\text{ClNO}_2$ 288.0786; Found 288.1025.

***N*-(3-(Furan-2-yl)-3-oxopropyl)benzamide, 5j.** Yield: 54% (0.21 g). Light yellow solid. Mp: 92-96 °C. IR: 3362 (br), 2928 (w), 1627 (s), 1522 (s), 1281 (m), 688 (s) cm^{-1} . ^1H NMR: δ 3.19 (2H, t, J = 5.7 Hz), 3.85 (2H, q, J = 5.8 Hz), 6.53 (1H, dd, J = 3.7, 1.6 Hz), 6.97 (1H, br), 7.22 (1H, d, J = 3.7 Hz), 7.39 (2H, t, J = 7.6 Hz), 7.47 (1H, t, J = 7.6 Hz), 7.59 (1H, s), 7.74 (2H, d, J = 8.1 Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 34.9, 38.2, 112.7, 118.2, 127.3 (2C), 128.9 (2C), 131.8, 134.7, 147.2, 152.6, 167.7, 188.9. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{14}\text{H}_{14}\text{NO}_3$ 244.0929; Found 244.0969.

***N*-(3-Oxopentyl)benzamide, 5l.** Yield: 31% (0.17g). Yellow wax. IR: 3306 (br), 2935.8 (w), 1711 (s), 1633 (s), 1537 (s), 1115 (m) cm^{-1} . ^1H NMR: δ 1.03 (3H, t, J = 7.4 Hz), 2.42 (2H, q, J = 7.6 Hz), 2.74 (2H, t, J = 5.8 Hz), 3.66 (2H, q, J = 6.2 Hz), 6.97 (1H, br), 7.38 (2H, t, J = 7.2 Hz), 7.45 (1H, t, J = 7.2 Hz), 7.73 (2H, d, J = 7.6 Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 7.98, 34.9, 36.5,

41.8, 127.2 (2C), 128.9 (2C), 131.8, 134.7, 167.6, 211.9. HRMS (ESI-TOF) m/z : $[M+H]^+$
Cald for $C_{12}H_{16}NO_2$ 206.1176; Found 206.1177.

***N*-(2-Methyl-3-oxobutyl)benzamide, 5m.** Yield: 50% (2.68 g). Yellow oil. IR: 3359 (br), 2362 (w), 1707 (s), 1645 (m), 1358 (s), 1220 (s) cm^{-1} . 1H NMR: δ 1.17 (3H, d, J = 2.5 Hz), 2.15 (3H, s), 2.86-2.96 (1H, m), 3.42-5.51 (1H, m), 3.56-3.65 (1H, m), 6.89 (1H, br), 7.37 (2H, t, J = 7.3 Hz), 7.44 (1H, t, J = 7.3 Hz), 7.72 (2H, d, J = 7.7 Hz). ^{13}C $\{^1H\}$ NMR: δ 14.4, 28.5, 41.6, 46.7, 127.0 (2C), 128.4 (2C), 131.4, 134.3, 167.7, 211.9. HRMS (ESI-TOF) m/z : $[M+H]^+$ Cald for $C_{12}H_{16}NO_2$ 206.1176; Found 206.1178.

4-Nitro-*N*-(3-oxo-3-phenylpropyl)benzamide, 5p. Yield: 73% (0.17 g). White solid. Mp: 135-138 °C. IR: 3364 (br), 2929 (w), 1673 (m), 1518 (s), 1213 (m), 781 (s) cm^{-1} . 1H NMR: δ 3.37 (2H, t, J = 5.4 Hz), 3.92 (2H, q, J = 5.9 Hz), 7.10 (1H, br), 7.49 (2H, t, J = 7.7 Hz), 7.61 (1H, t, J = 7.4 Hz), 7.91 (2H, d, J = 8.7 Hz), 7.97 (2H, d, J = 8.5 Hz), 8.27 (2H, d, J = 8.5 Hz). ^{13}C $\{^1H\}$ NMR: δ 35.5, 38.2, 124.1 (2C), 128.4 (2C), 128.5 (2C), 129.2 (2C), 134.2, 136.7, 140.3, 149.9, 165.7, 200.2. HRMS (ESI-TOF) m/z : $[M+H]^+$ Cald for $C_{16}H_{15}N_2O_4$ 299.1026; Found 299.1025.

Representative procedure for 2-iodoanisole-catalyzed cyclization of *N*-propargylamide 4 or β -amidoketone 5: Propargylamide 4 (1 equiv) or β -amidoketone 5 (1 equiv) was dissolved in acetonitrile (0.14 M) and 2-iodoanisole (0.2 equiv) was added, followed by *m*-CBPA (3 equiv) and *p*-TsOH·H₂O (3 equiv). The mixture was stirred overnight at room temperature, then saturated aqueous Na₂S₂O₃ solution and saturated aqueous NaHCO₃ solution were added and the mixture extracted with CH₂Cl₂. The organic layers were combined and dried with MgSO₄, filtered and concentrated under vacuum. The product was purified by flash chromatography (9:1 petroleum ether/EtOAc) to provide oxazoline 6.

Phenyl(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6a. Yield: 77% (0.076 g). Yellow solid. Mp: 104-108 °C. IR: 2922 (br), 2355 (w), 1702 (m), 1650 (s), 1596 (w), 685 (s) cm^{-1} . ^1H NMR: δ 4.28 (1H, dd, $J = 15, 7.6$ Hz), 4.46 (1H, dd, $J = 15, 11$ Hz), 5.86 (1H, dd, $J = 11, 7.7$ Hz), 7.42 (2H, t, $J = 7.5$ Hz), 7.45-7.56 (3H, m), 7.63 (1H, t, $J = 7.3$ Hz) 7.99 (4H, d, $J = 7.7$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 58.8, 79.9, 127.3, 128.8 (3C), 129.1 (2C), 129.3 (2C), 132.0 (2C), 134.3, 134.4, 164.5, 195.2. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{16}\text{H}_{14}\text{NO}_2$ 252.0980; Found 252.1026.

(2-(4-Methoxyphenyl)-4,5-dihydrooxazol-5-yl)(phenyl)methanone, 6b. Yield: 77% (0.073 g). Yellow solid. Mp: 134-137 °C. IR: 2924 (br), 2849 (w), 1694 (m), 1604 (m), 1378 (m), 1301 (s), 688 (s) cm^{-1} . ^1H NMR: δ 3.85 (3H, s), 4.24 (1H, dd, $J = 15, 7.7$ Hz), 4.44 (1H, dd, $J = 15, 11$ Hz), 5.82 (1H, dd, $J = 11, 7.7$ Hz), 6.92 (2H, d, $J = 8.7$ Hz), 7.52 (2H, t, $J = 7.7$ Hz), 7.64 (1H, t, $J = 7.6$ Hz), 7.93 (2H, d, $J = 8.8$ Hz), 7.99 (2H, d, $J = 7.7$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 55.7, 58.9, 79.9, 114.1 (2C), 119.9, 129.1 (2C), 129.3 (2C), 130.5 (2C), 134.3, 134.5, 162.7, 164.3, 195.5. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{17}\text{H}_{16}\text{NO}_3$ 282.1085; Found 282.1123.

(2-(4-Chlorophenyl)-4,5-dihydrooxazol-5-yl)(phenyl)methanone, 6c. Yield: 75% (0.079 g). White solid. Mp: 103-107 °C. IR: 2927 (br), 1702 (m), 1649 (m), 1488 (m), 1089 (s), 850 (s) cm^{-1} . ^1H NMR: δ 4.26 (1H, dd, $J = 15, 7.5$ Hz), 4.46 (1H, dd, $J = 15, 11$ Hz), 5.87 (1H, dd, $J = 11, 7.5$ Hz), 7.39 (2H, t, $J = 8.4$ Hz), 7.52 (2H, d, $J = 7.7$ Hz), 7.64 (1H, t, $J = 7.3$ Hz), 7.92 (2H, d, $J = 8.3$ Hz), 7.98 (2H, d, $J = 8.3$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 58.9, 80.0, 125.8, 129.0 (3C), 129.1 (2C), 129.3 (2C), 130.1, 134.3, 134.4, 138.3, 163.7, 195.0. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Cald for $\text{C}_{16}\text{H}_{13}\text{ClNO}_2$ 286.0629; Found 286.6020.

(2-(Furan-2-yl)-4,5-dihydrooxazol-5-yl)(phenyl)methanone, 6d. Yield: 66% (0.071 g). Yellow solid. Mp: 76-79 °C. IR: 3111 (br), 2924 (s), 1700 (s), 1672 (s), 1479 (m), 1097 (s)

cm⁻¹. ¹H NMR: δ 4.24 (1H, dd, *J* = 15, 7.7 Hz), 4.47 (1H, dd, *J* = 15, 11 Hz), 5.84 (1H, dd, *J* = 11, 7.7 Hz), 6.51 (1H, s), 7.05 (1H, d, *J* = 3.7 Hz), 7.52 (2H, t, *J* = 7.7 Hz), 7.57 (1H, s), 7.64 (1H, t, *J* = 7.7 Hz), 7.97 (2H, d, *J* = 7.9 Hz). ¹³C {¹H} NMR: δ 58.9, 79.9, 111.9, 115.5, 129.1 (2C), 129.3 (2C), 134.3, 134.4, 142.6, 145.9, 156.7, 194.8. HRMS (ESI-TOF) *m/z*: [M+H]⁺ Calcd for C₁₄H₁₂NO₃ 242.0812; Found 242.0818.

(4-Chlorophenyl)(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6e. Yield: 75% (0.079 g). Yellow solid. Mp: 106-108 °C. IR: 3063 (br), 2848 (w), 1693 (m), 1586 (m), 1362 (m), 1058 (m), 710 (s) cm⁻¹. ¹H NMR: δ 4.31 (1H, dd, *J* = 15, 7.5 Hz), 4.44 (1H, dd, *J* = 15, 11 Hz), 5.78 (1H, dd, *J* = 11, 7.5 Hz), 7.42 (2H, t, *J* = 7.6 Hz), 7.47-7.53 (3H, m), 7.93-7.99 (4H, m). ¹³C {¹H} NMR: δ 58.6, 79.9, 127.3, 128.7 (2C), 128.8 (2C), 129.7 (2C), 130.6 (2C), 132.1, 132.9, 140.9, 164.2, 194.4. HRMS (ESI-TOF) *m/z*: [M+H]⁺ Calcd for C₁₆H₁₃ClNO₂ 286.0629; Found 286.6043.

[1,1'-Biphenyl]-2-yl(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6f. Yield: 75% (0.078 g). Yellow wax. IR: 3055 (br), 2926 (w), 2871 (w), 1698 (m), 1646 (m), 1252 (m) cm⁻¹. ¹H NMR: δ 3.90 (1H, dd, *J* = 15, 11 Hz), 3.99 (1H, dd, *J* = 15, 7.4 Hz), 4.81 (1H, dd, 11, 7.4 Hz), 7.33-7.41 (4H, m), 7.42-7.50 (6H, m), 7.52-7.61 (2H, m), 7.76 (2H, d, *J* = 8.1 Hz). ¹³C {¹H} NMR: δ 59.2, 81.4, 127.3, 128.0, 128.6 (5C), 129.0, 129.3 (2C), 129.4 (2C), 130.5, 131.8, 131.9, 137.8, 140.4, 141.2, 164.3, 205.9. HRMS (ESI-TOF) *m/z*: [M+H]⁺ Calcd for C₂₂H₁₈NO₂ 328.1332; Found 328.1329.

(2-Phenyl-4,5-dihydrooxazol-5-yl)(*p*-tolyl)methanone, 6g. Yield: 35% (0.037 g). Yellow solid. Mp: 119-122 °C. IR: 2924 (br), 1722 (w), 1689 (w), 1577 (w), 1247 (s), 709 (s) cm⁻¹. ¹H NMR: δ 2.44 (3H, m), 4.26 (1H, dd, *J* = 15, 7.7 Hz), 4.45 (1H, dd, *J* = 15, 11 Hz), 5.84 (1H, dd, *J* = 11, 7.7 Hz), 7.32 (2H, d, *J* = 8.1 Hz), 7.42 (2H, t, *J* = 7.7 Hz), 7.49 (1H, t, *J* = 7.4 Hz), 7.89 (2H, d, *J* = 8.1 Hz), 7.99 (2H, d, *J* = 8.1 Hz). ¹³C {¹H} NMR: δ 22.2, 58.9, 79.9,

127.4, 128.7 (4C), 128.8 (2C), 129.2 (2C), 130.0, 132.0, 145.4, 164.5, 194.9. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{17}H_{16}NO_2$ 266.1176; Found 266.1176.

Naphthalen-2-yl(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6h. Yield: 82% (0.072 g). Light yellow oil. IR: 3339 (br), 2968 (m), 1694 (w), 1650 (m), 1508 (s), 950 (s) cm^{-1} . 1H NMR: δ 4.30 (1H, dd, $J = 15, 7.4$ Hz), 4.43 (1H, dd, $J = 15, 11$ Hz), 5.93 (1H, dd, $J = 11, 7.4$ Hz), 7.41 (2H, t, $J = 7.5$ Hz), 7.49 (1H, t, $J = 7.5$ Hz), 7.52-7.65 (3H, m), 7.91 (2H, t, $J = 8.7$ Hz), 7.97 (2H, d, $J = 7.7$ Hz), 8.06 (1H, d, $J = 8.1$ Hz), 8.64 (1H, d, $J = 8.5$ Hz). ^{13}C $\{^1H\}$ NMR: δ 59.3, 81.1, 124.6, 125.9, 127.2, 127.4, 128.7 (2C), 128.7 (2C), 128.8, 128.8, 128.9, 131.1, 132.0, 132.6, 134.1, 134.3, 164.6, 199.4. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{20}H_{16}NO_2$ 302.1176; Found 302.1193.

(4-Methoxyphenyl)(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6i. Yield: 52% (0.051 g). Yellowish wax. IR: 3324 (br), 2924 (w), 2836 (w), 1740 (m), 1646 (m), 1598 (s), 1169 (m), 695 (s) cm^{-1} . 1H NMR: δ 3.89 (3H, s), 4.29 (1H, dd, $J = 15, 7.7$ Hz), 4.45 (1H, dd, $J = 15, 11$ Hz), 5.82 (1H, dd, $J = 11, 7.7$ Hz), 6.99 (2H, d, $J = 8.9$ Hz), 7.42 (2H, t, $J = 7.7$ Hz), 7.49 (1H, t, $J = 7.4$ Hz), 7.99 (2 x 2H, d, $J = 7.8$ Hz). ^{13}C $\{^1H\}$ NMR: δ 55.9, 58.8, 79.9, 114.5 (2C), 127.4, 127.5, 128.8 (5C), 131.5 (2C), 132.0, 164.5, 193.7. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{17}H_{16}NO_3$ 282.1125; Found 282.1134.

Furan-2-yl(2-phenyl-4,5-dihydrooxazol-5-yl)methanone, 6j. Yield: 95% (0.095 g). Brown solid. Mp: 75-77 °C. IR: 3335 (br), 2969 (s), 1466 (w), 1378 (m), 1127 (m), 950 (s) cm^{-1} . 1H NMR: δ 4.25 (1H, dd, $J = 15, 7.8$ Hz), 4.47 (1H, dd, $J = 15, 11$ Hz), 5.61 (1H, dd, $J = 11, 7.8$ Hz), 6.58 (1H, dd, $J = 3.8, 1.8$ Hz), 7.41 (1H, t, $J = 3.9$ Hz), 7.45 (2H, d, $J = 7.9$ Hz), 7.51 (1H, t, $J = 7.3$ Hz), 7.71 (1H, s), 8.00 (2H, d, $J = 7.7$ Hz). ^{13}C $\{^1H\}$ NMR: δ 59.2, 80.1, 113.0, 120.1, 127.4, 128.8 (2C), 128.8 (2C), 132.1, 147.9, 150.7, 164.3, 185.0. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{14}H_{12}NO_3$ 242.0812; Found 242.0804.

1-(2-Phenyl-4,5-dihydrooxazol-5-yl)ethan-1-one, 6k. Yield: 63% (0.06 g). Yellow oil. IR: 2937 (br), 1717 (s), 1651 (s), 1254 (m), 1058 (s), 778 (m) cm^{-1} . ^1H NMR: δ 2.28 (3H, s), 4.09 (1H, dd, $J = 15, 7.3$ Hz), 4.33 (1H, dd, $J = 15, 11$ Hz), 4.96 (1H, dd, $J = 11, 7.3$ Hz), 7.45 (2H, t, $J = 7.6$ Hz), 7.53 (1H, t, $J = 7.6$ Hz), 7.99 (2H, d, $J = 7.3$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 26.3, 59.0, 82.8, 127.3, 128.6 (2C), 128.9 (2C), 132.2, 164.2, 208.1. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{11}\text{H}_{12}\text{NO}_2$ 190.0863; Found 190.0866.

1-(2-Phenyl-4,5-dihydrooxazol-5-yl)propan-1-one, 6l. Yield: 56% (0.055 g). Colorless oil. IR: 2969 (br), 1717 (m), 1643 (w), 1451 (w), 1264 (m), 711 (s) cm^{-1} . ^1H NMR: δ 1.09 (3H, t, $J = 7.3$ Hz), 2.52-2.64 (1H, m), 2.67-2.79 (1H, m), 4.08 (1H, dd, $J = 15, 7.2$ Hz), 4.33 (1H, dd, $J = 15, 11$ Hz), 4.99 (1H, dd, $J = 11, 7.2$ Hz), 7.45 (2H, t, $J = 7.4$ Hz), 7.53 (1H, t, $J = 7.4$ Hz), 7.99 (2H, d, $J = 7.8$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 7.2, 32.2, 59.3, 82.6, 127.4, 128.6 (2C), 128.9 (2C), 132.2, 164.3, 210.8. HRMS (ESI-TOF) m/z : $[\text{M}+\text{NH}_4]^+$ Calcd for $\text{C}_{12}\text{H}_{17}\text{N}_2\text{O}_2$ 221.1285; Found 221.1284.

1-(5-Methyl-2-phenyl-4,5-dihydrooxazol-5-yl)ethanone, 6m. Yield: 75% (0.075 g). Colorless oil. IR: 3335 (br), 2969 (m), 2928 (w), 2359 (m), 1713 (m), 1646 (m), 950 (s) cm^{-1} . ^1H NMR: δ 1.58 (3H, s), 2.29 (3H, s), 3.85 (1H, d, $J = 15$ Hz), 4.21 (1H, d, $J = 15$ Hz), 7.44 (2H, t, $J = 7.5$ Hz), 7.52 (1H, t, $J = 7.5$ Hz), 7.99 (2H, d, $J = 7.3$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 23.1, 25.5, 65.1, 89.8, 127.7, 128.5 (2C), 128.8 (2C), 132.0, 163.5, 209.9. HRMS (ESI-TOF) m/z : $[\text{M}+\text{H}]^+$ Calcd for $\text{C}_{12}\text{H}_{14}\text{NO}_2$ 204.1019; Found 204.1012.

((syn)-4-Methyl-2-phenyl-4,5-dihydrooxazol-5-yl)(phenyl)methanone, syn-6n. Yield: 54% (0.053 g). Yellow wax. IR: 2925 (br), 1698 (m), 1647 (m), 1448 (m), 1218 (s), 687 (s) cm^{-1} . ^1H NMR: δ 1.09 (3H, d, $J = 7.0$ Hz), 4.89 (1H, dq, $J = 10, 6.9$ Hz), 6.00 (1H, d, $J = 10$ Hz), 7.44 (2H, t, $J = 7.6$ Hz), 7.49-7.56 (3H, m), 7.64 (1H, t, $J = 7.3$ Hz), 7.95 (2H, d, $J = 8.2$ Hz), 8.03 (2H, d, $J = 8.2$ Hz). ^{13}C $\{^1\text{H}\}$ NMR: δ 17.8, 65.5, 83.6, 127.4, 128.4 (2C), 128.8

(2C), 128.9 (2C), 129.4 (2C), 132.1, 134.3, 135.8, 163.7, 194.7. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{17}H_{16}NO_2$ 266.1176; Found 266.1167.

((anti)-4-Methyl-2-phenyl-4,5-dihydrooxazol-5-yl)(phenyl)methanone, anti-6n. Yield: 34% (0.034 g). Yellow solid. Mp: 71-73 °C. IR: 2925 (br), 1698 (m), 1647 (m), 1448 (m), 1218 (s), 687 (s) cm^{-1} . 1H NMR: δ 1.54 (3H, d, J = 6.7 Hz), 4.52 (1H, pent, J = 6.6 Hz), 5.39 (1H, d, J = 6.7 Hz), 7.42 (2H, t, J = 7.6 Hz), 7.50 (1H, t, J = 7.8 Hz), 7.52 (2H, t, J = 7.8 Hz), 7.63 (1H, t, J = 7.5 Hz), 7.99 (2 x 2H, d, J = 7.8 Hz). ^{13}C $\{^1H\}$ NMR: δ 22.0, 66.5, 86.4, 127.5, 128.7 (2C), 128.8 (2C), 129.1 (2C), 129.2 (2C), 132.0, 134.3, 134.8, 163.0, 195.7. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{17}H_{16}NO_2$ 266.1176; Found 266.1167.

((syn)-2,4-Diphenyl-4,5-dihydrooxazol-5-yl)(phenyl)methanone, syn-6o. Yield: 18% (0.025 g). Yellow oil. IR: 2918 (br), 1700 (m), 1644 (s), 1447 (m), 1238 (m), 1068 (m) cm^{-1} . 1H NMR: δ 5.83 (1H, d, J = 11 Hz), 6.29 (1H, d, J = 11 Hz), 6.93 (2H, dd, J = 7.5, 1.8 Hz), 6.98-7.05 (3H, m), 7.31 (2H, t, J = 7.7 Hz), 7.43-7.60 (6H, m), 8.06 (2H, d, J = 8.1 Hz). ^{13}C $\{^1H\}$ NMR: δ 74.5, 84.8, 127.3, 128.1 (2C), 128.3 (3C), 128.6 (2C), 128.8 (2C), 128.9 (2C), 129.2 (2C), 132.4, 133.6, 136.2, 136.7, 165.5, 194.7. HRMS (ESI-TOF) m/z : $[M+H]^+$ Calcd for $C_{22}H_{18}NO_2$ 328.1331; Found 328.1330.

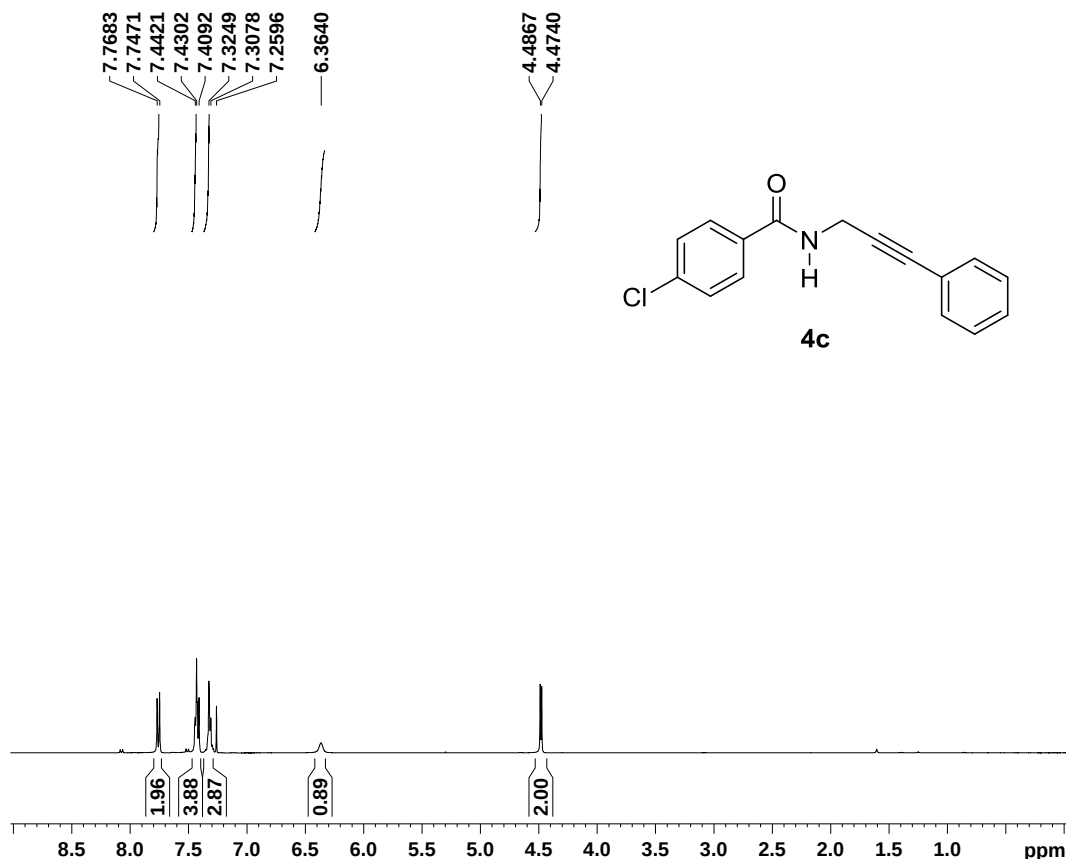
((anti)-2,4-Diphenyl-4,5-dihydrooxazol-5-yl)(phenyl)methanone, anti-6o.⁸ Yield: 30% (0.041 g). Yellow oil. IR: 2918 (br), 1700 (m), 1644 (s), 1447 (m), 1238 (m), 1068 (m) cm^{-1} . 1H NMR: δ 5.53 (1H, d, J = 6.6 Hz), 5.71 (1H, d, J = 6.6 Hz), 7.29-7.40 (5H, m), 7.45-7.57 (5H, m), 7.63 (1H, t, J = 7.5 Hz), 7.94 (2H, t, J = 7.2 Hz), 8.09 (2H, d, J = 7.3 Hz). ^{13}C $\{^1H\}$ NMR: δ 74.0, 87.1, 127.3, 127.4 (2C), 128.6, 128.8 (2C), 129.1 (3C), 129.2 (2C), 129.4 (2C),

⁸ Hajra, S.; Bar, S.; Sinha, D.; Maji, B. *J. Org. Chem.* **2008**, 73, 4320.

129.5 (2C), 132.3, 134.4, 141.4, 164.2, 194.8. HRMS (ESI-TOF) m/z : $[M+H]^+$ Cald for $C_{22}H_{18}NO_2$ 328.1331; Found 328.1330.

***N*-(2-Hydroxy-3-oxo-3-phenylpropyl)-4-nitrobenzamide, 8.** Yield: 66% (0.069 g). Light yellow solid. Mp: 75-77 °C. IR: 3405 (br), 2969 (m), 1667 (m), 1535 (m), 1368 (w), 1124 (m), 950 (s) cm^{-1} . 1H NMR: δ 3.33 (1H, ddd, $J = 13, 8.3, 5.5$ Hz), 4.09 (1H, br), 4.24 (1H, ddd, $J = 10, 6.8, 3.2$ Hz), 5.34 (1H, dd, $J = 7.7, 2.8$ Hz), 6.87 (1H, br), 7.57 (2H, t, $J = 7.7$ Hz), 7.68 (1H, t, $J = 7.7$ Hz), 7.95 (2H, d, $J = 8.7$ Hz), 8.12 (2H, d, $J = 8.2$ Hz), 8.29 (2H, d, $J = 8.7$ Hz). ^{13}C $\{^1H\}$ NMR: δ 45.7, 72.8, 124.2 (2C), 128.6 (2C), 129.2 (2C), 129.6 (2C), 133.3, 135.2, 139.8, 150.1, 166.3, 199.4. HRMS (ESI-TOF) m/z : $[M+H]^+$ Cald for $C_{16}H_{15}N_2O_5$ 315.0936; Found 315.0972.

¹H NMR and ¹³C NMR spectra.



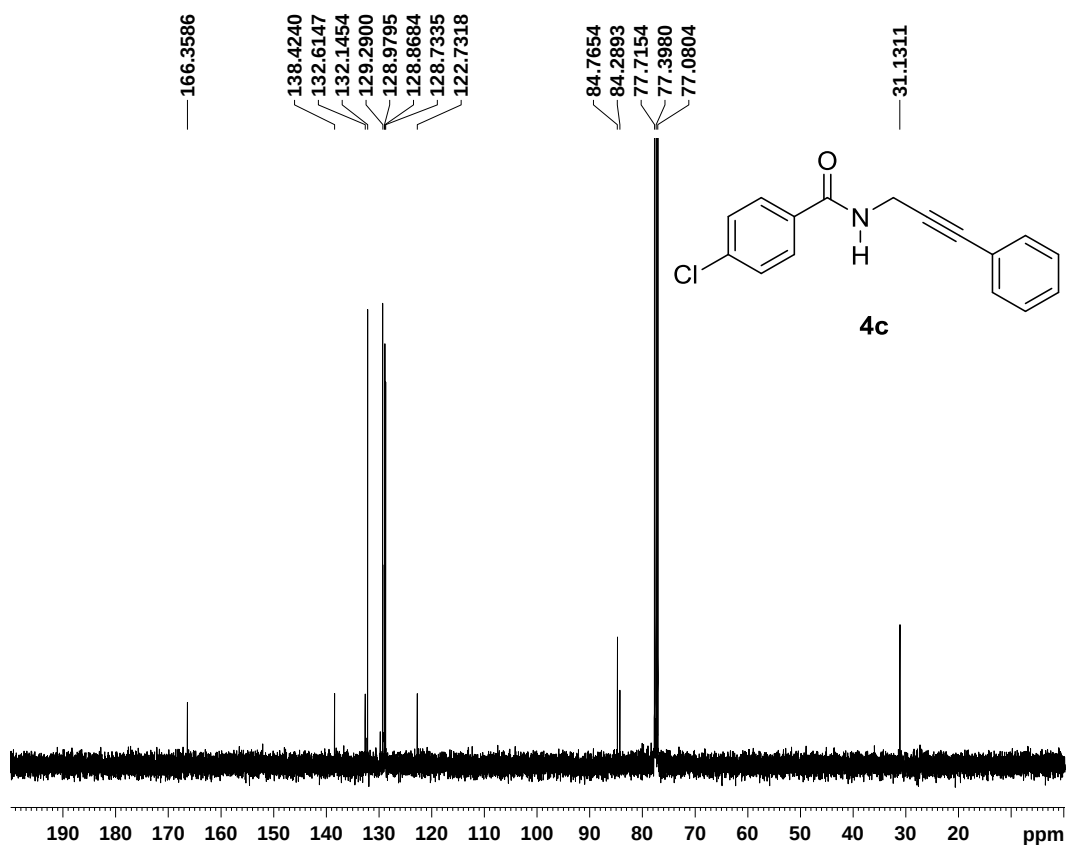
University of HUDDERSFIELD

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University of HUDDERSFIELD

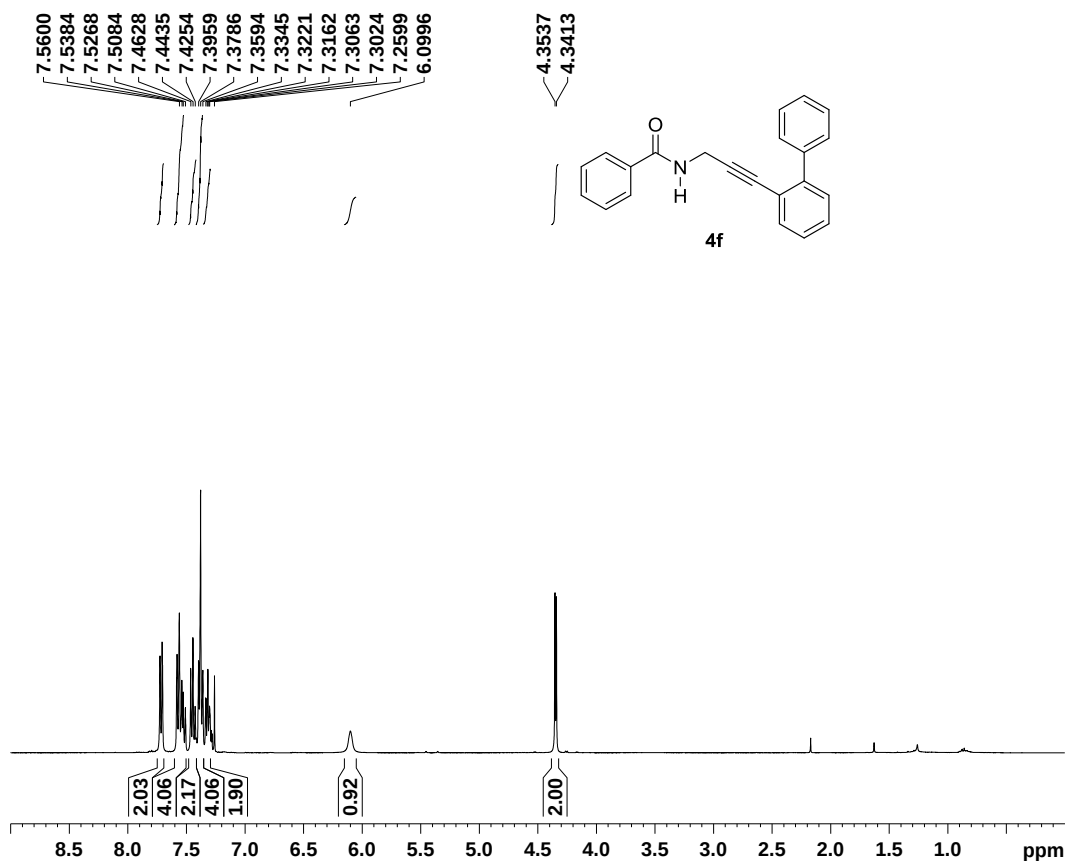
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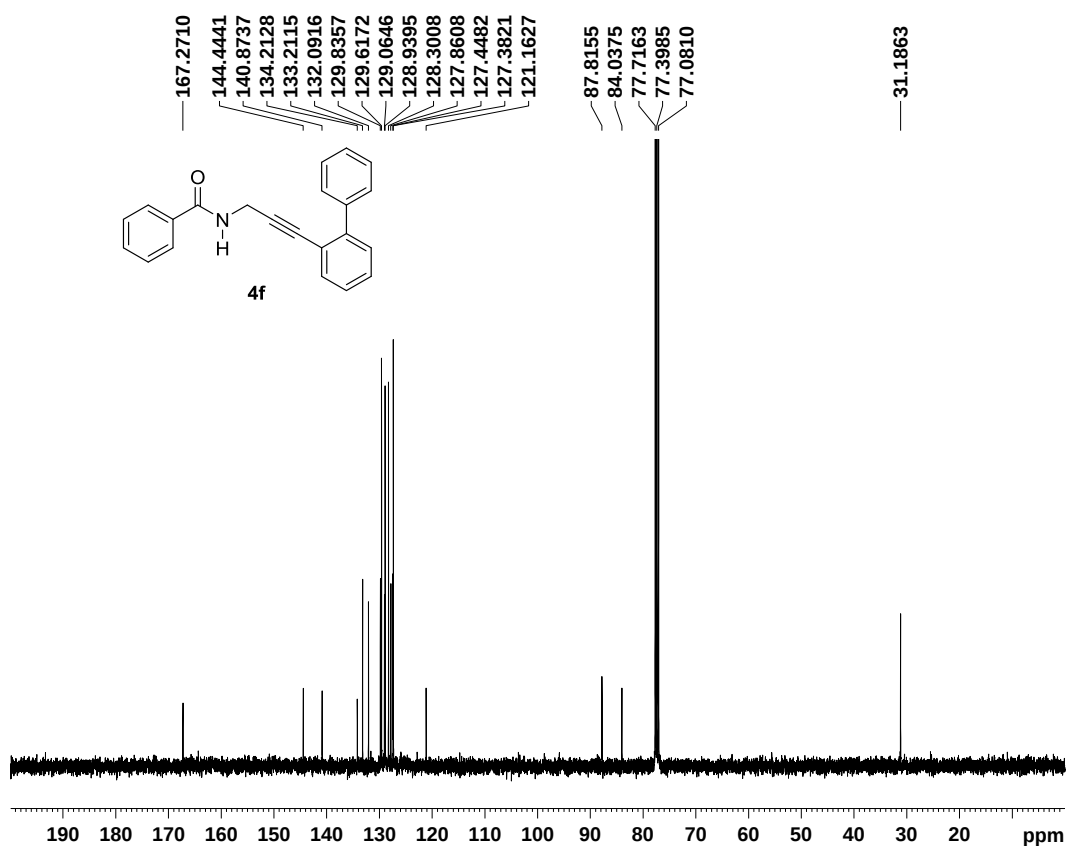


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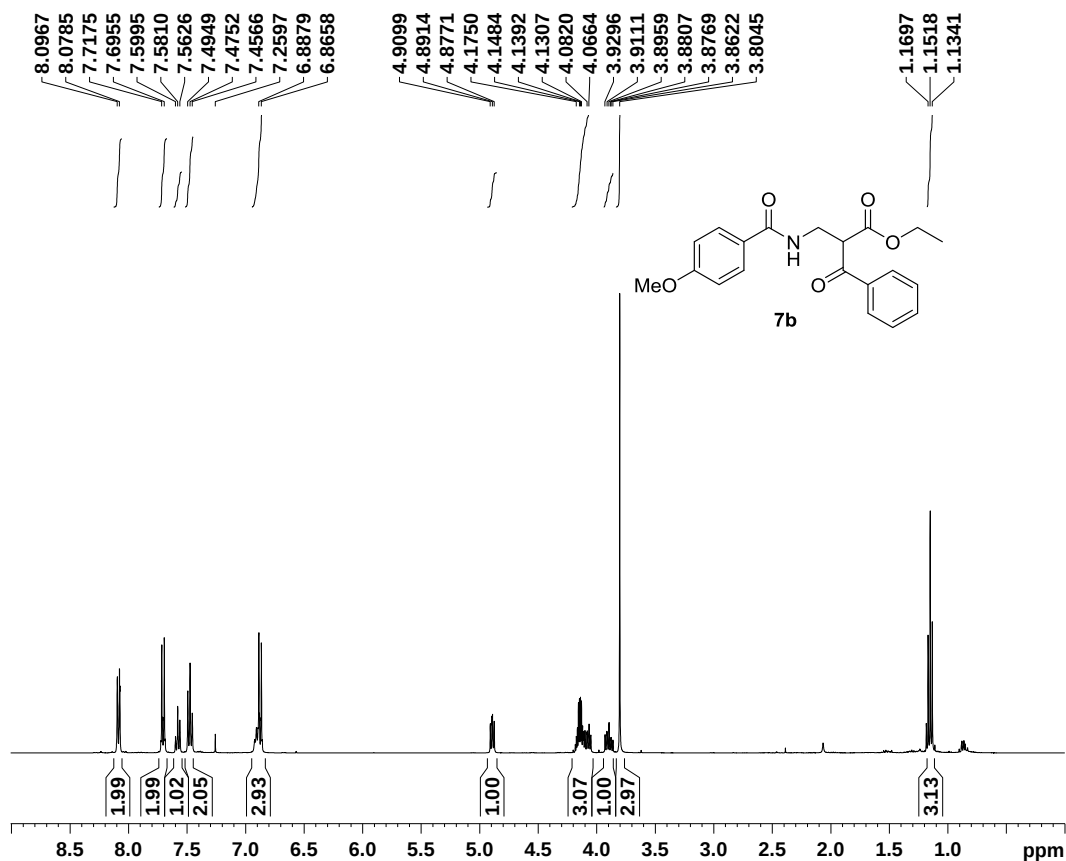
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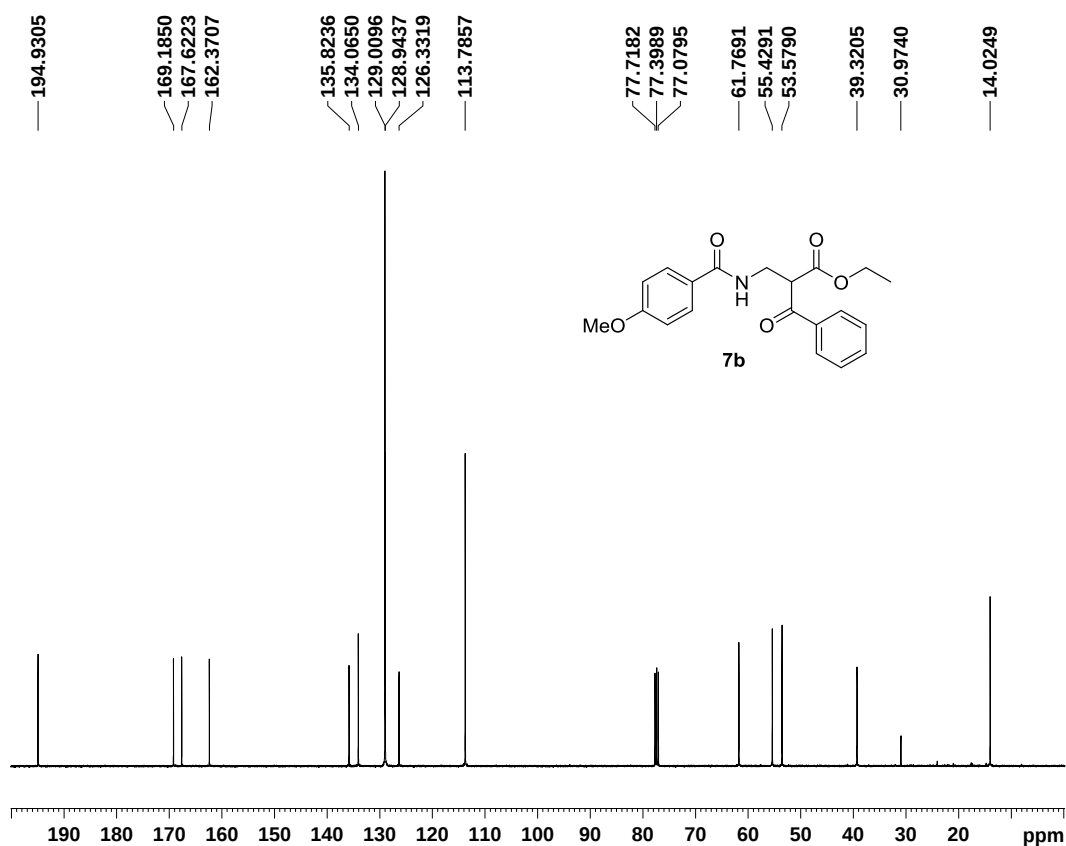


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RG 32.09
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TE 294.2 K
D1 2.00000000 sec
TD0 1

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NUC1 1H
P1 8.00 usec
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F2 - Processing parameters
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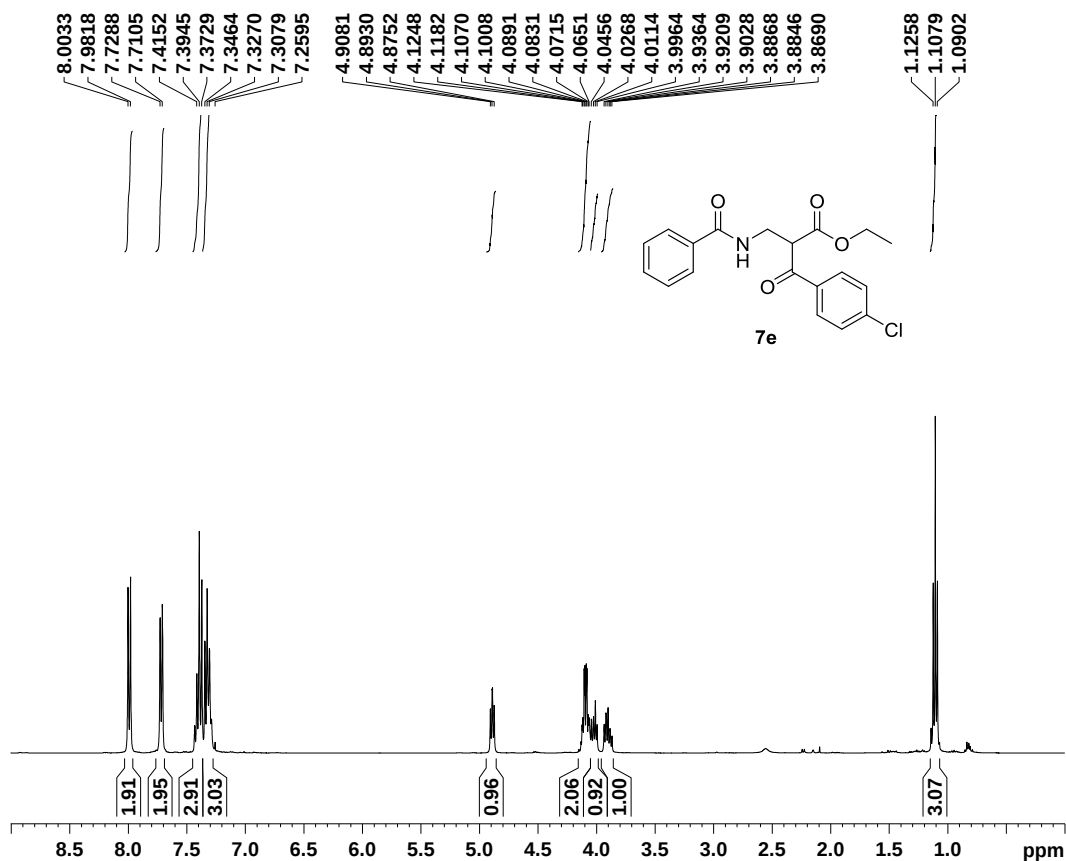
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FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

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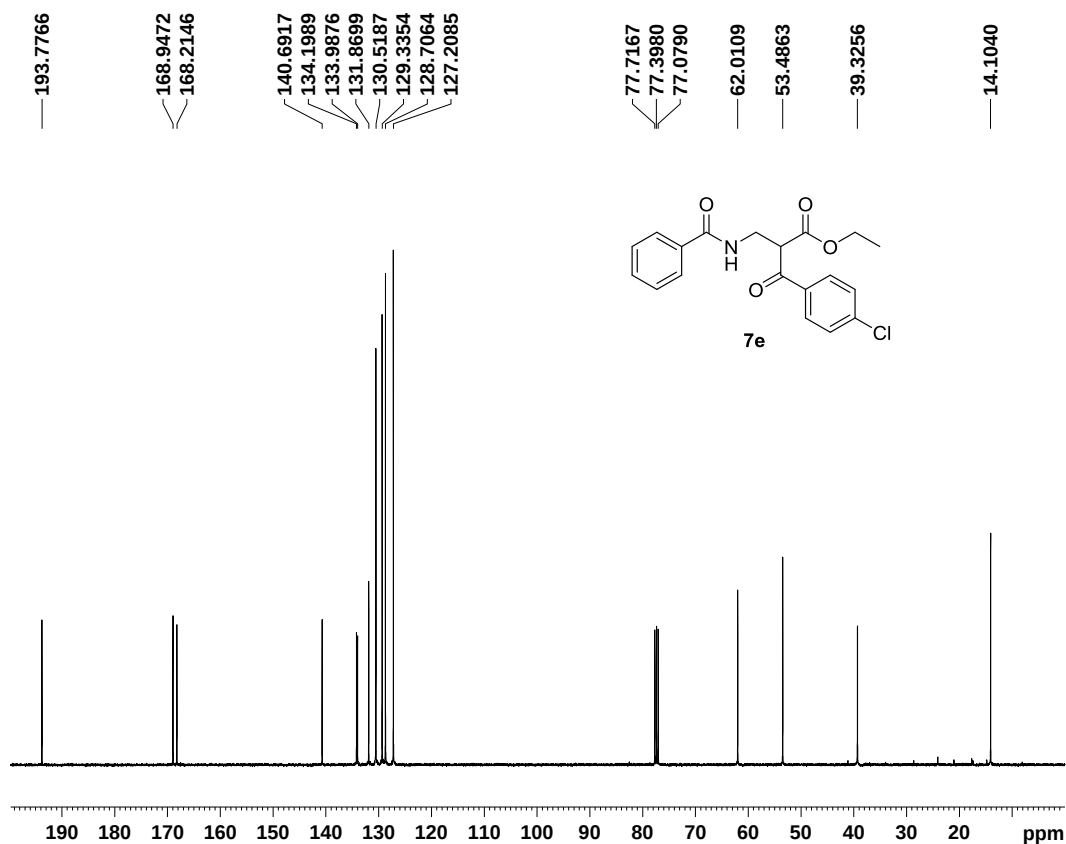
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Current Data Parameters
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F2 - Processing parameters
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 GB 0
 PC 1.50



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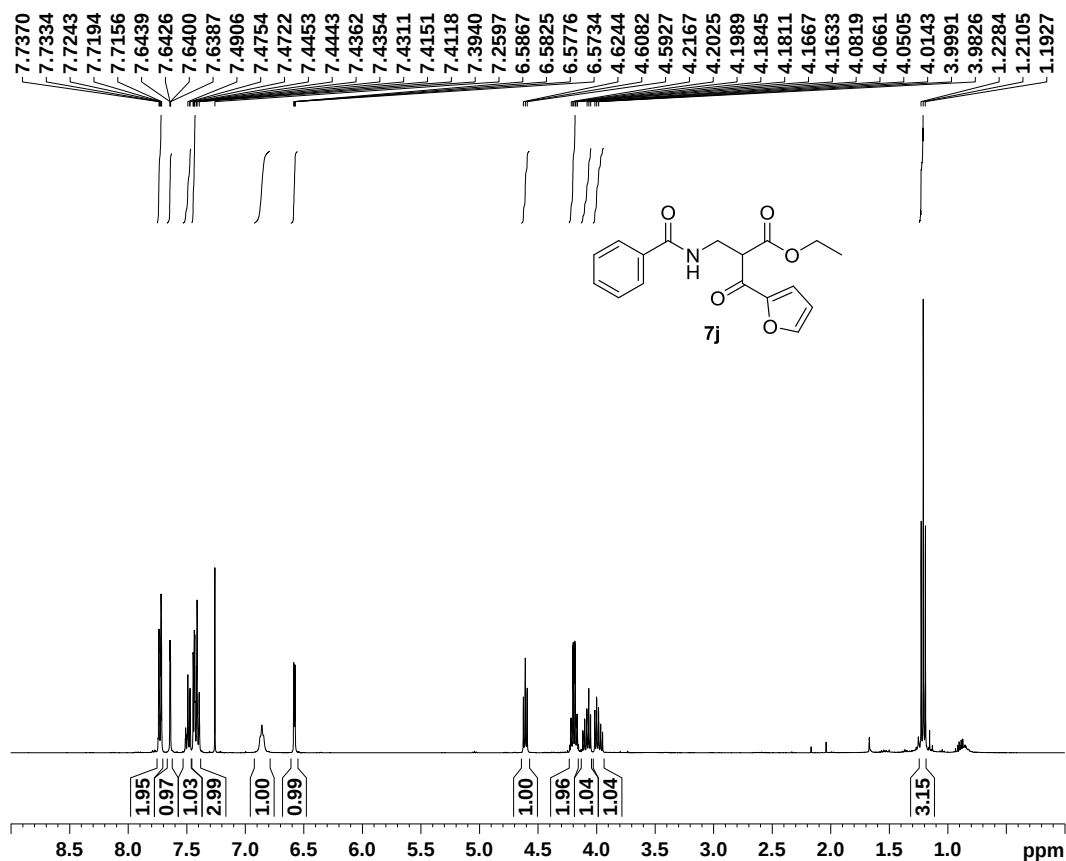
Current Data Parameters
 NAME SQ-326
 EXPNO 61
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20151214
 Time 16.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 181.72
 DW 20.600 usec
 DE 8.18 usec
 TE 294.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

CHANNEL f1 -----
 SFO1 100.6228303 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 77.00000000 W

CHANNEL f2 -----
 SFO2 400.1316005 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 90.00 usec
 PLW2 24.00000000 W
 PLW12 0.17567000 W
 PLW13 0.14229999 W

F2 - Processing parameters
 SI 65536
 SF 100.6127521 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

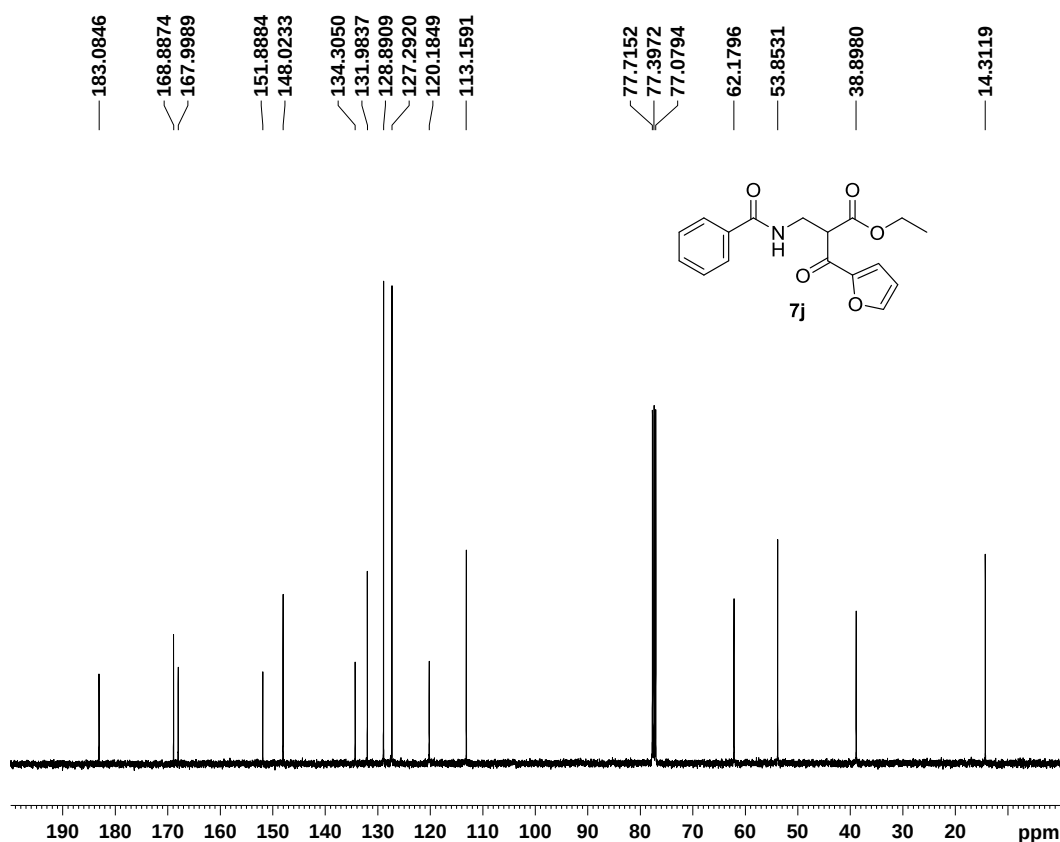


Current Data Parameters
NAME SO-287
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150515
Time 16.18
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



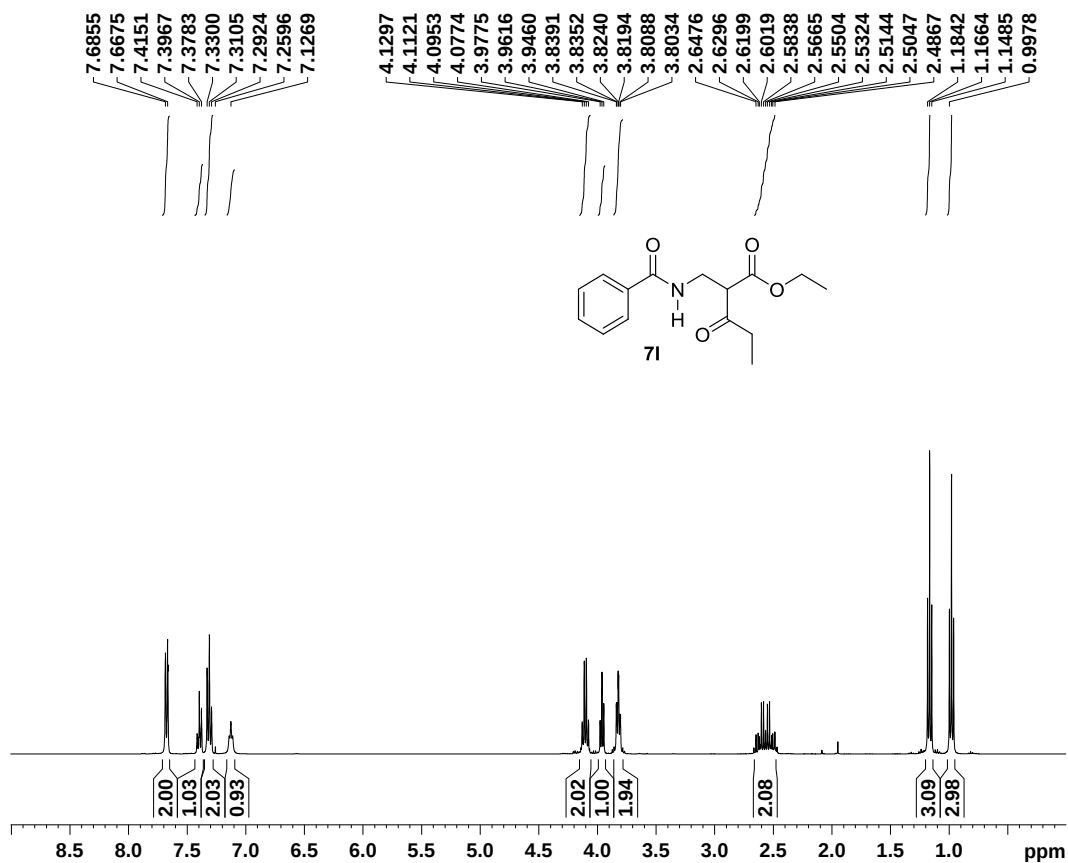
Current Data Parameters
NAME SO-287
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151118
Time 13.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127370 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



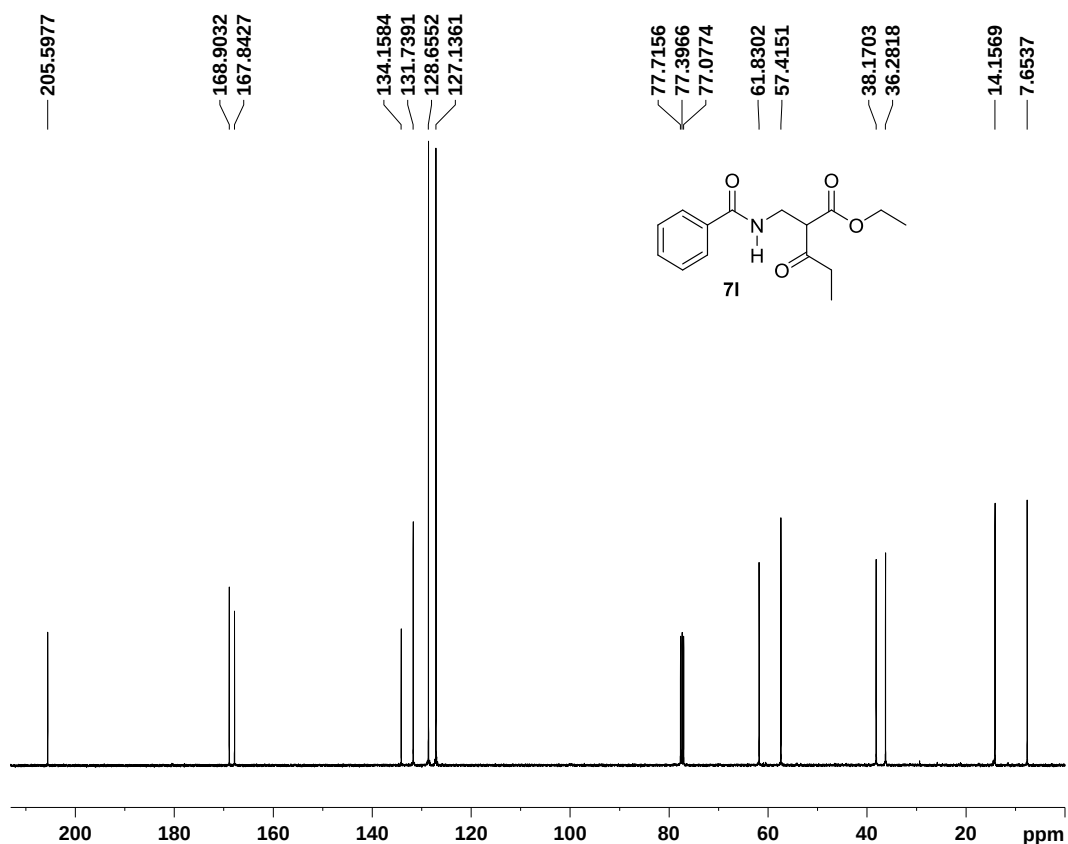
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Current Data Parameters
NAME SO-440
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160112
Time 13.32
INSTRUM spect
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 15.2
DW 60.800 usec
DE 10.69 usec
TE 293.6 K
D1 2.0000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300092 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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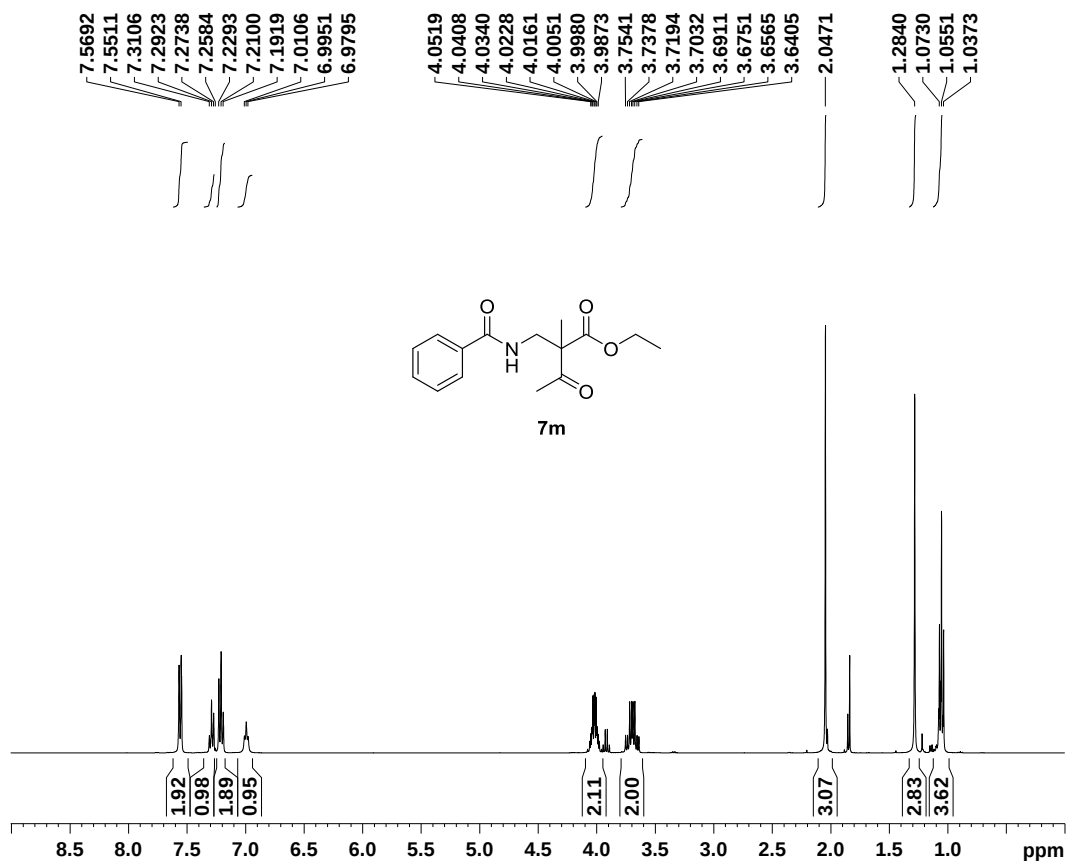
Current Data Parameters
NAME SO-440
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160112
Time 13.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 256
SOLVENT CDCl3
NS 4
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127512 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



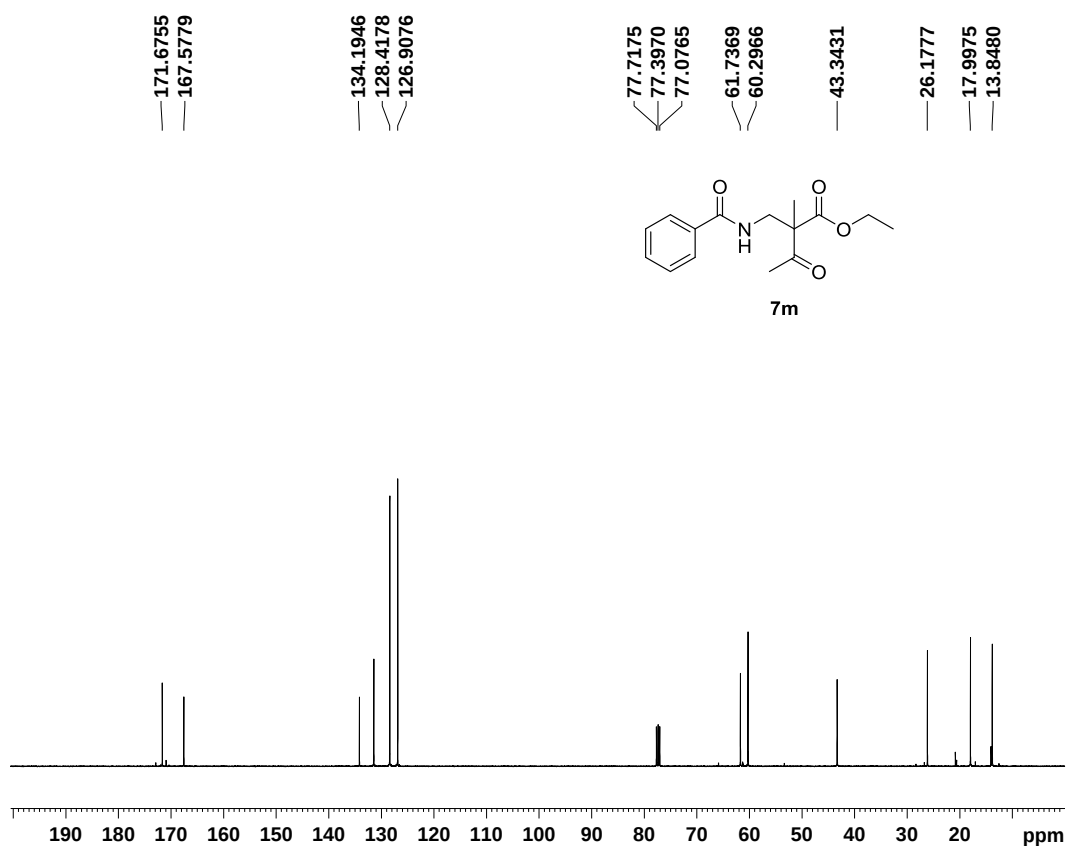
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Current Data Parameters
NAME: SO-404
EXPNO: 20
PROCNO: 1

F2 - Acquisition Parameters
Date_: 20151031
Time: 17.04
INSTRUM: spect
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: 8.63
DW: 60.800 usec
DE: 10.69 usec
TE: 294.1 K
D1: 2.00000000 sec
TD0: 1

----- CHANNEL f1 -----
SFO1: 400.1324710 MHz
NUC1: 1H
P1: 8.00 usec
PLW1: 24.00000000 W

F2 - Processing parameters
SI: 32768
SF: 400.1300090 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.50



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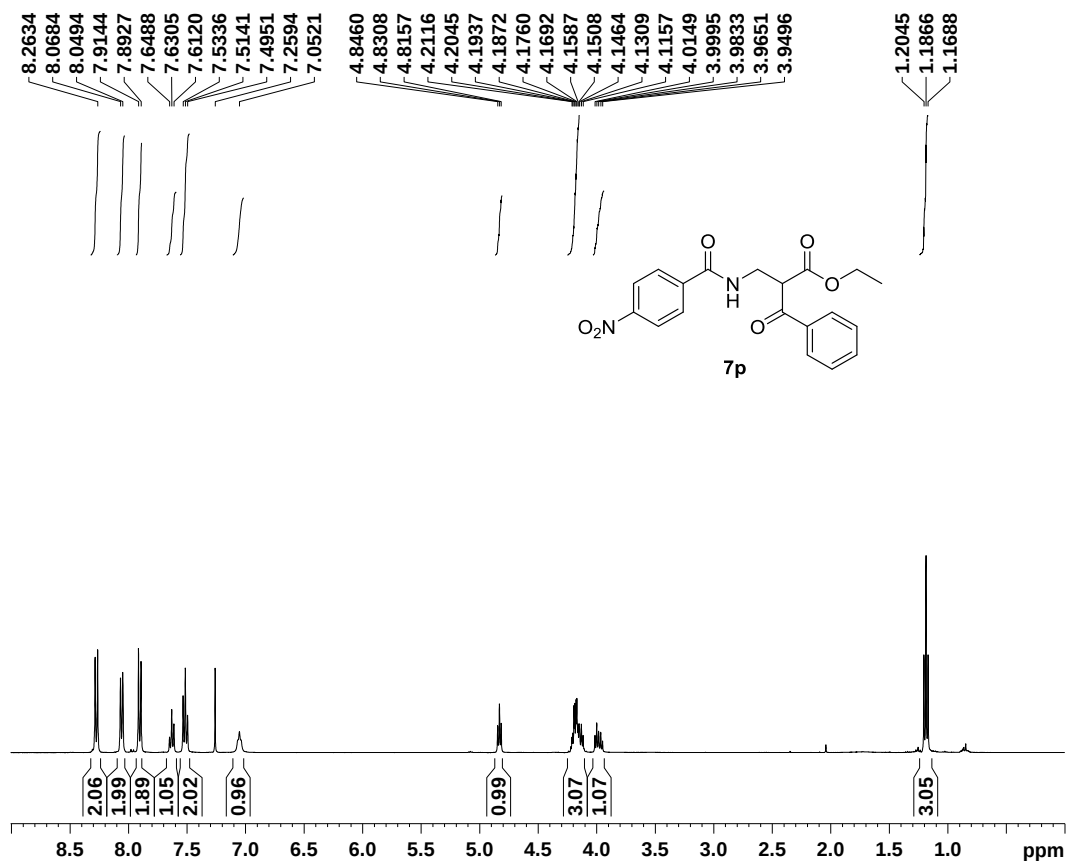
Current Data Parameters
NAME: SO-404
EXPNO: 21
PROCNO: 1

F2 - Acquisition Parameters
Date_: 20151031
Time: 17.20
INSTRUM: spect
PROBHD: 5 mm PABBO BB/
PULPROG: zgpg30
TD: 65536
SOLVENT: CDCl3
NS: 256
DS: 4
SWH: 24038.461 Hz
FIDRES: 0.366798 Hz
AQ: 1.3631488 sec
RG: 181.72
DW: 20.600 usec
DE: 8.18 usec
TE: 294.4 K
D1: 2.00000000 sec
D11: 0.03000000 sec
TD0: 1

----- CHANNEL f1 -----
SFO1: 100.6228303 MHz
NUC1: 13C
P1: 9.00 usec
PLW1: 77.00000000 W

----- CHANNEL f2 -----
SFO2: 400.1316005 MHz
NUC2: 1H
CPDPRG[2]: waltz16
PCPD2: 90.00 usec
PLW2: 24.00000000 W
PLW12: 0.17567000 W
PLW13: 0.14229999 W

F2 - Processing parameters
SI: 65536
SF: 100.6127642 MHz
WDW: EM
SSB: 0
LB: 1.00 Hz
GB: 0
PC: 1.40



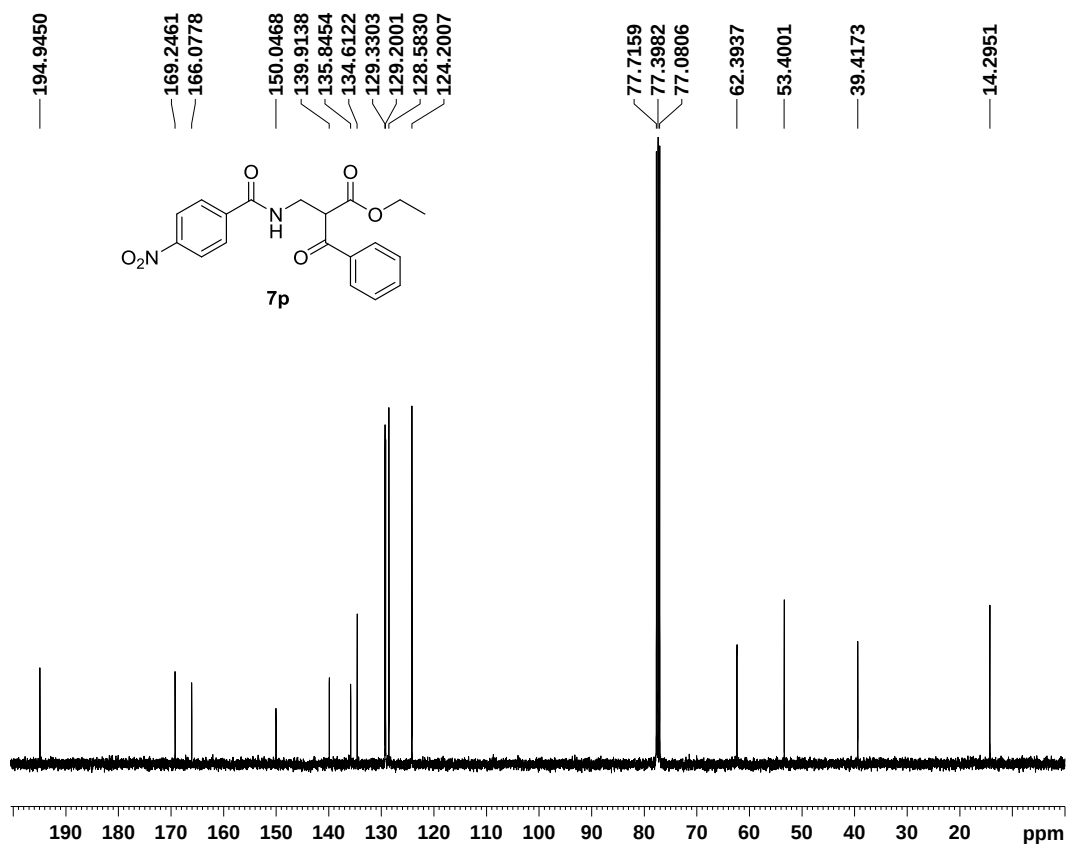
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Current Data Parameters
 NAME SQ-310
 EXPNO 20
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20150616
 Time 13.25
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9845889 sec
 RG 147.88
 DW 60.800 usec
 DE 10.69 usec
 TE 293.9 K
 D1 2.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 8.00 usec
 PLW1 24.00000000 W

F2 - Processing parameters
 SI 32768
 SF 400.1300098 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.50



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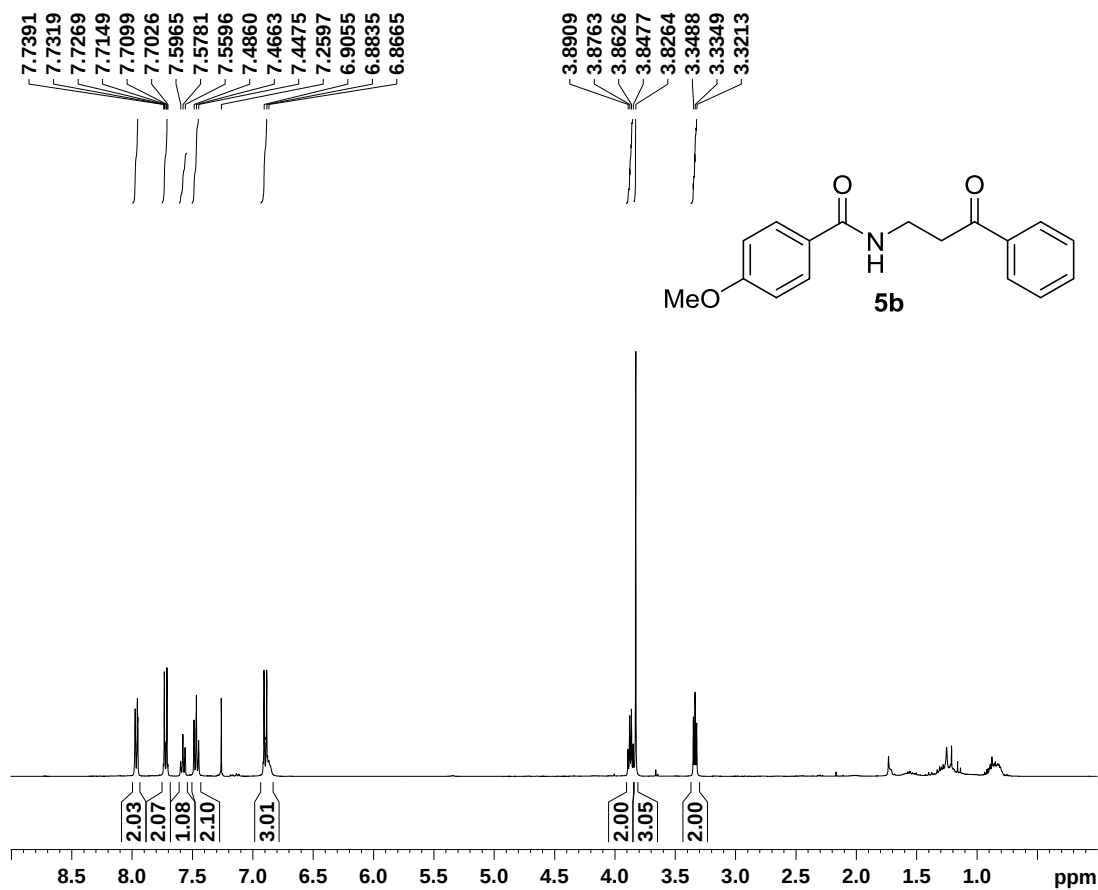
Current Data Parameters
 NAME SQ-310
 EXPNO 40
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20151104
 Time 6.53
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 181.72
 DW 20.600 usec
 DE 8.18 usec
 TE 294.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

----- CHANNEL f1 -----
 SFO1 100.6228303 MHz
 NUC1 13C
 P1 9.00 usec
 PLW1 77.00000000 W

----- CHANNEL f2 -----
 SFO2 400.1316005 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 90.00 usec
 PLW2 24.00000000 W
 PLW12 0.17567000 W
 PLW13 0.14229999 W

F2 - Processing parameters
 SI 65536
 SF 100.6127339 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

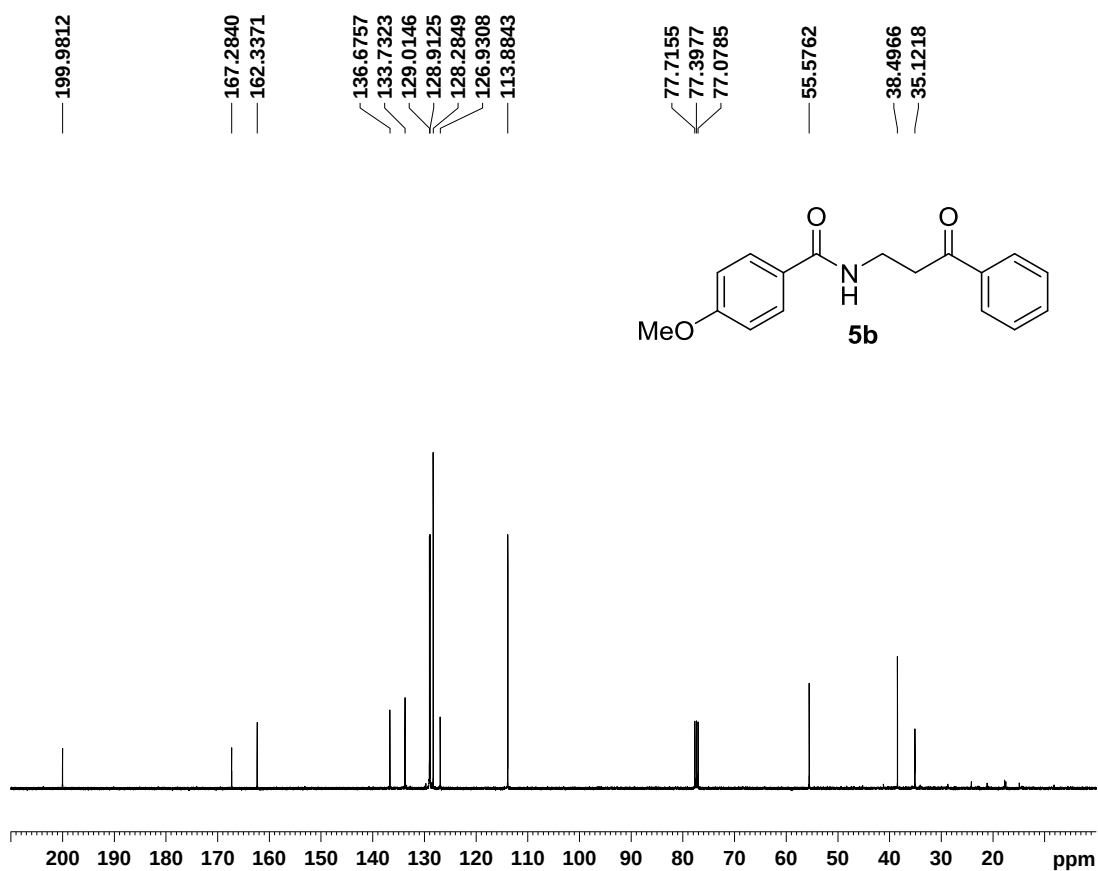


Current Data Parameters
NAME SO-316
EXPNO 50
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150625
Time 14.57
INSTRUM spect
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 104.33
DW 60.800 usec
DE 10.69 usec
TE 294.0 K
D1 2.00000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLM1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



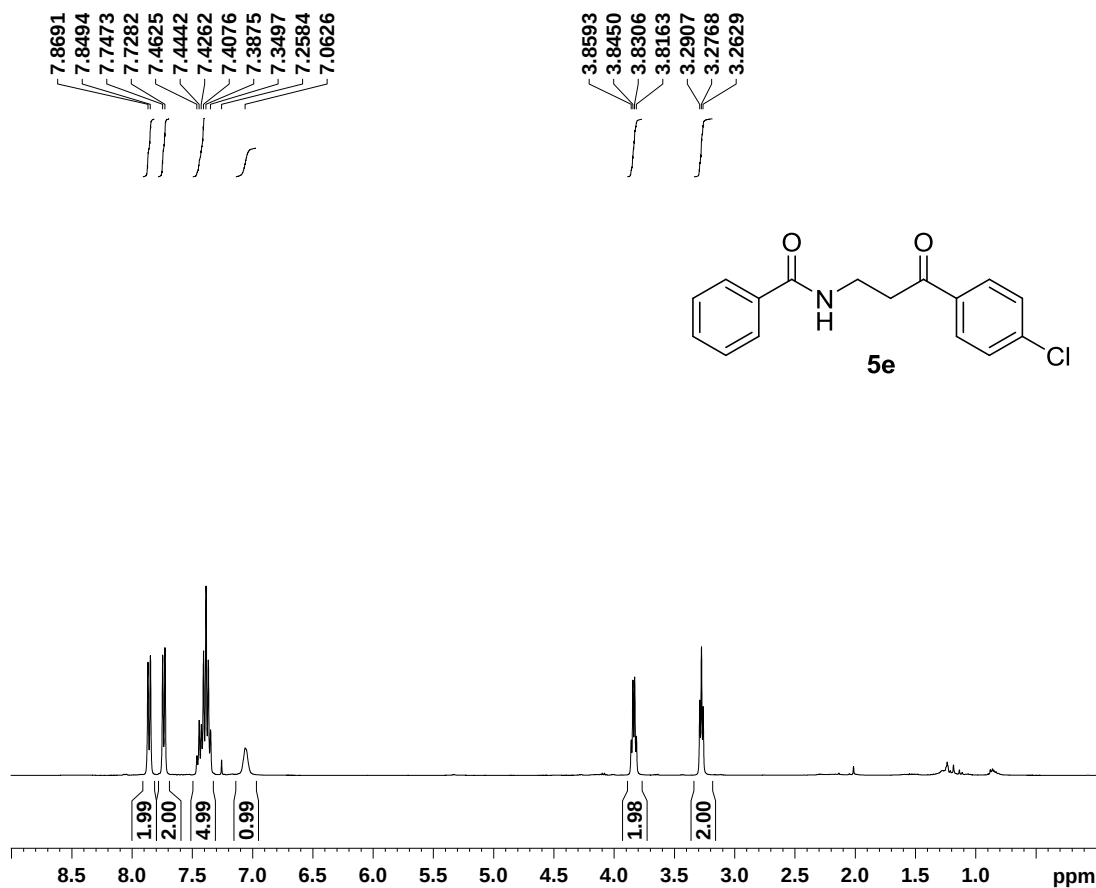
Current Data Parameters
NAME SO-316
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150625
Time 21.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLM1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
PCPDPRG2 waltz16
PCPD2 90.00 usec
PLM2 24.00000000 W
PLW2 0.17567000 W
PLW3 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127458 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40



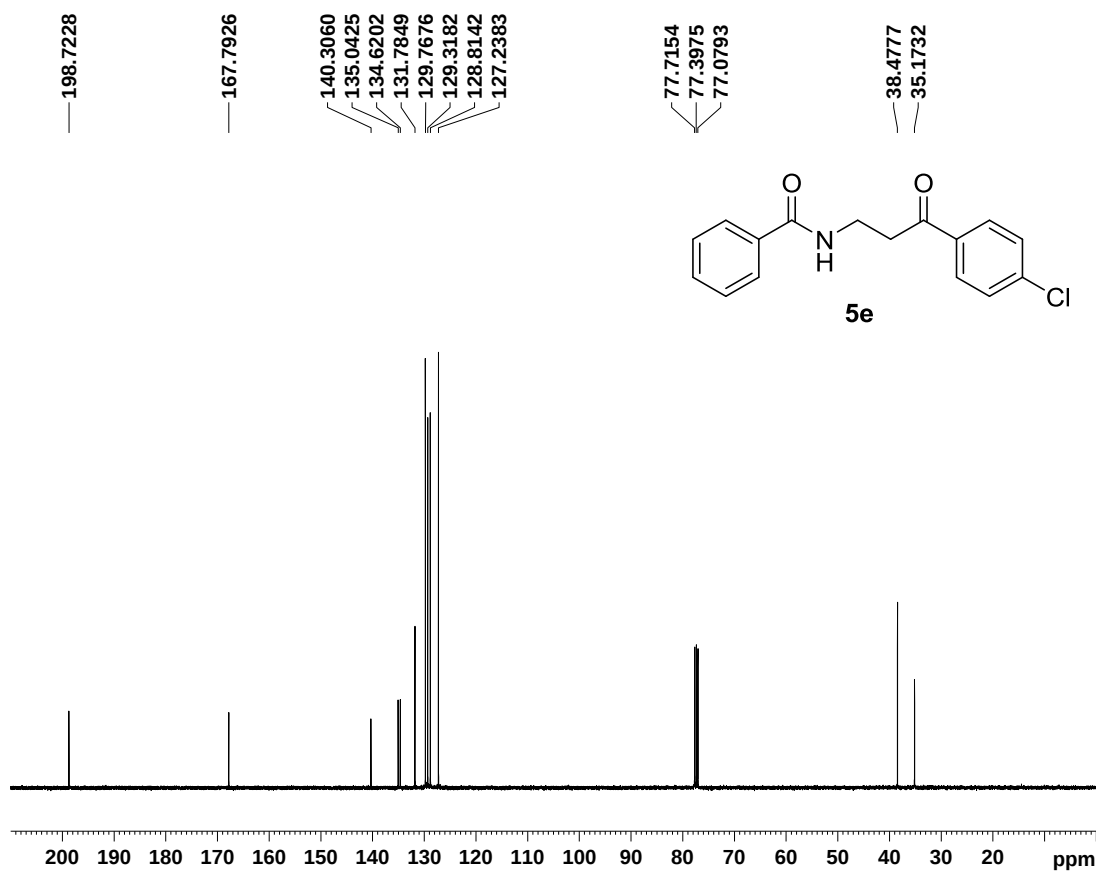
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Current Data Parameters
NAME SO-329
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150729
Time 17.52
INSTRUM spect
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 28.42
DW 60.800 usec
DE 10.69 usec
TE 296.7 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLM1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300100 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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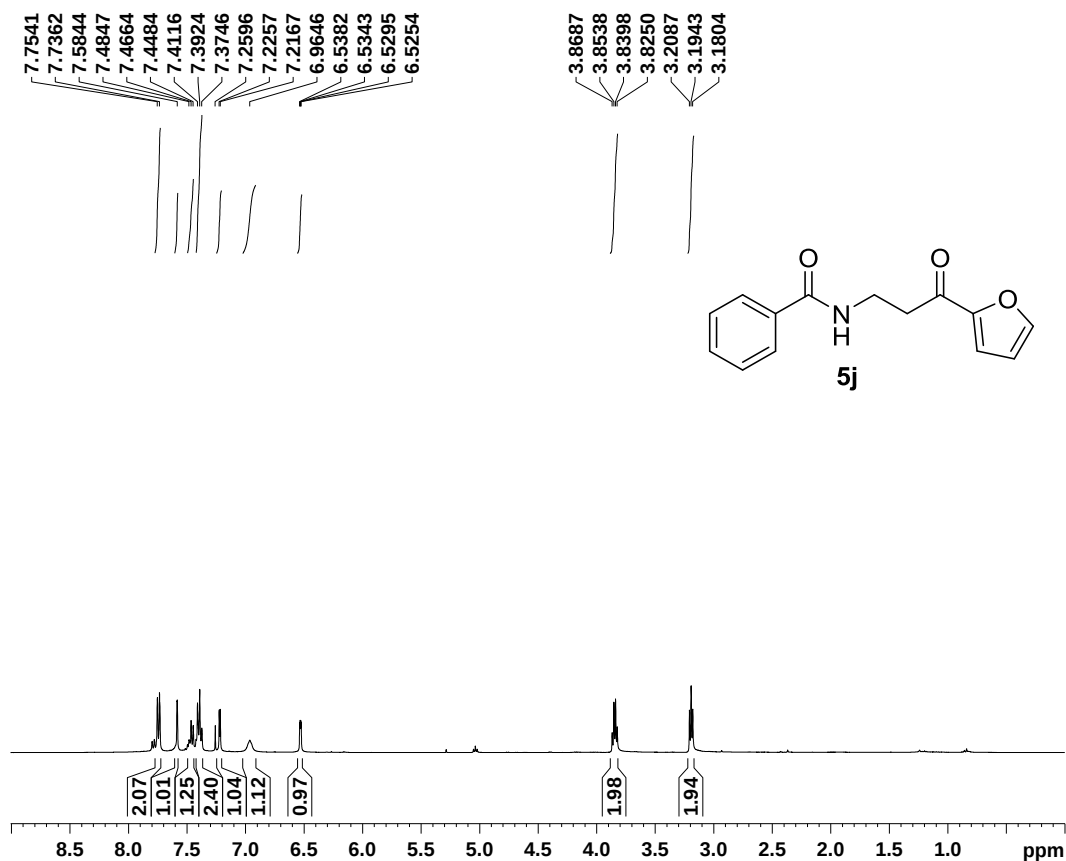
Current Data Parameters
NAME SO-329
EXPNO 31
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150730
Time 4.22
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 297.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLM1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLM2 24.00000000 W
PLM12 0.17567000 W
PLM13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127396 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

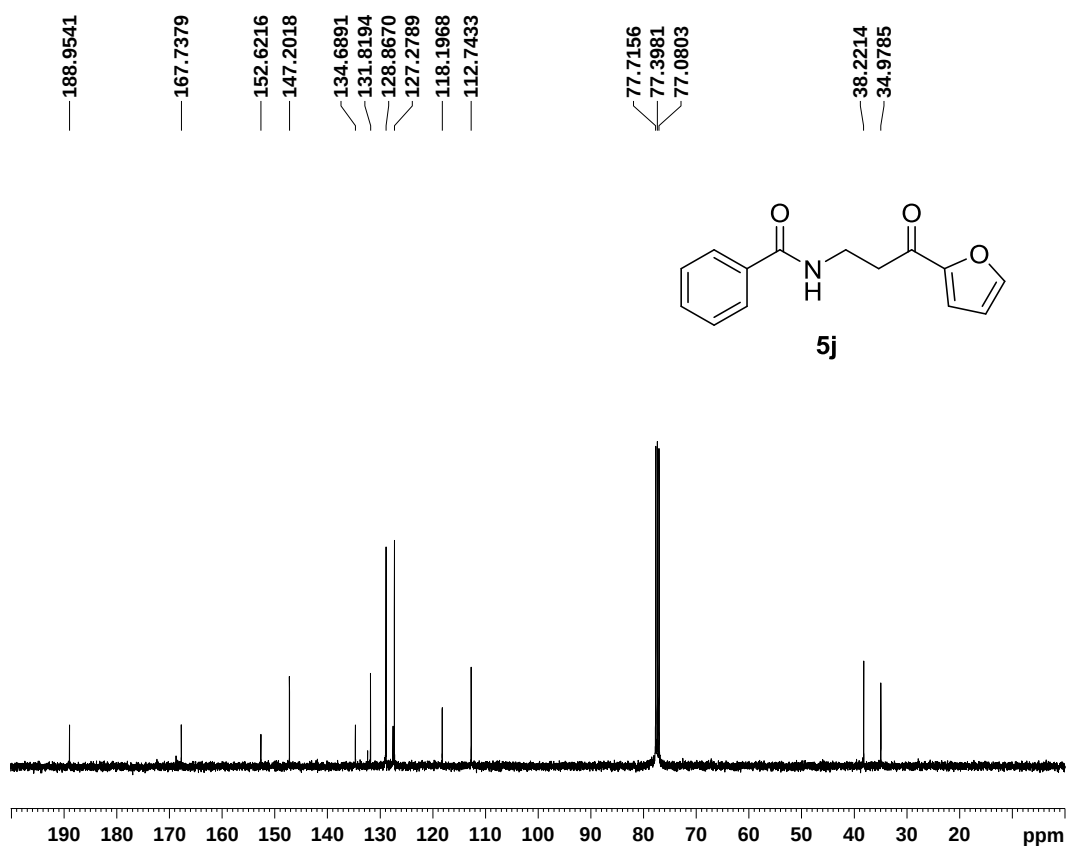


Current Data Parameters
NAME SQ-302
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151214
Time 12.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 92.46
DW 60.800 usec
DE 10.69 usec
TE 293.6 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300100 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



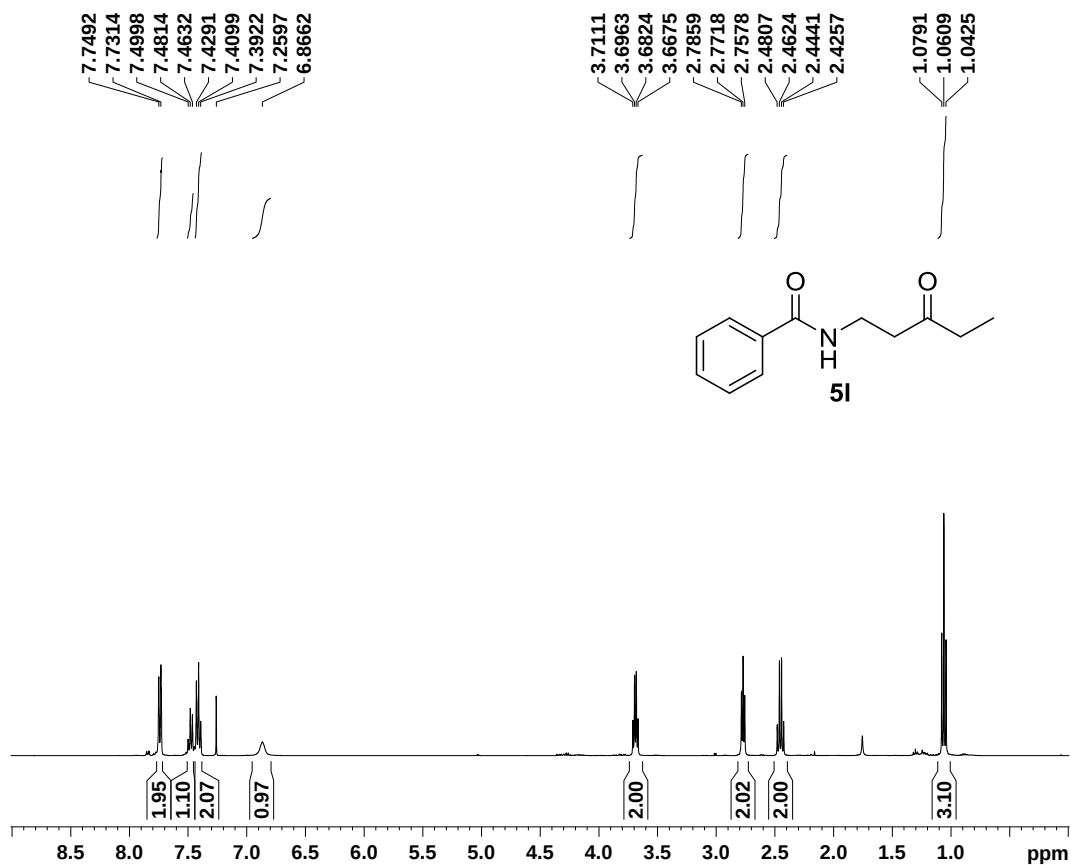
Current Data Parameters
NAME SQ-302
EXPNO 81
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151214
Time 13.14
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127350 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

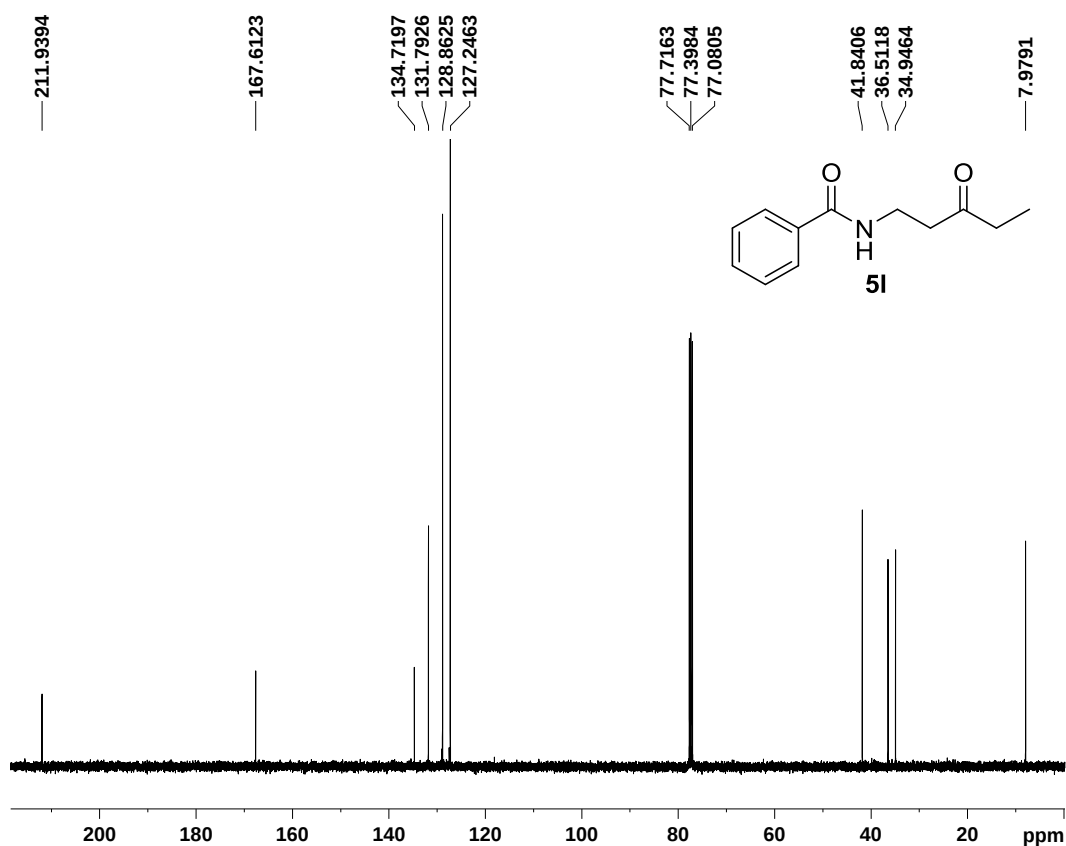


Current Data Parameters
NAME SO-298
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151210
Time_ 15.46
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.688 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 104.33
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



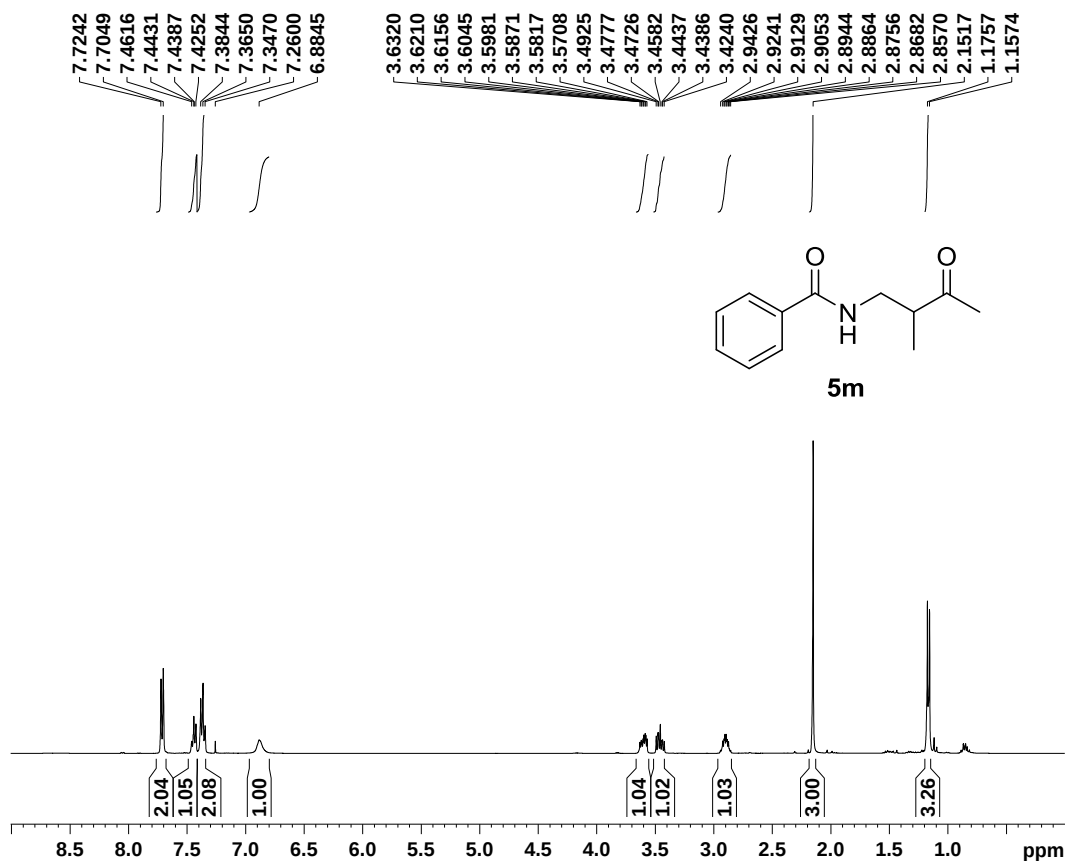
Current Data Parameters
NAME SO-298
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150529
Time_ 17.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CDDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127355 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40



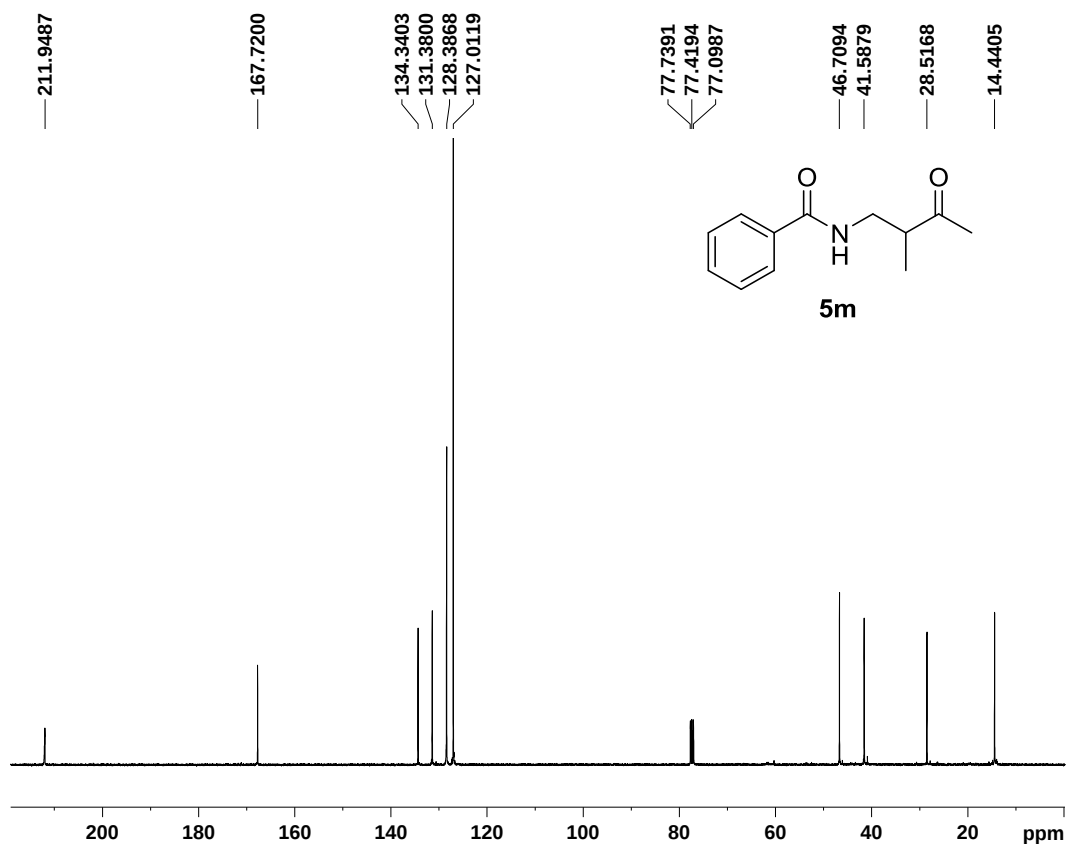
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Current Data Parameters
NAME 50-307
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150612
Time 14.30
INSTRUM spect
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 28.42
DW 60.800 usec
DE 10.69 usec
TE 293.9 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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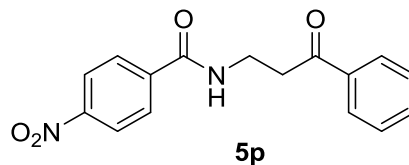
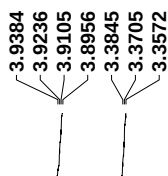
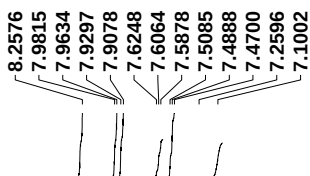
Current Data Parameters
NAME 50-405
EXPNO 31
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151102
Time 17.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 293.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127643 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

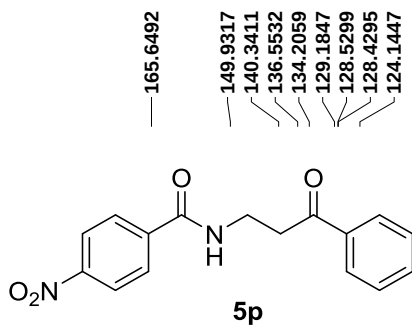
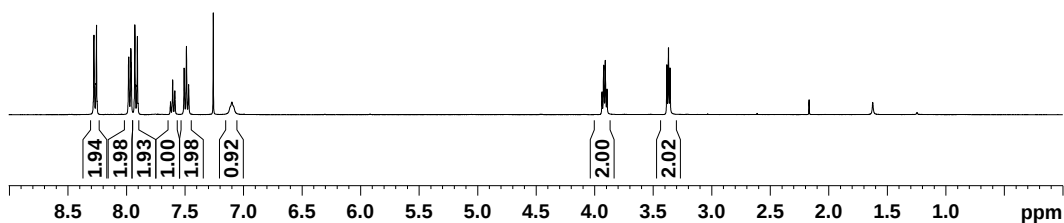


Current Data Parameters
NAME 50-313-2
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150617
Time 13.01
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.9 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



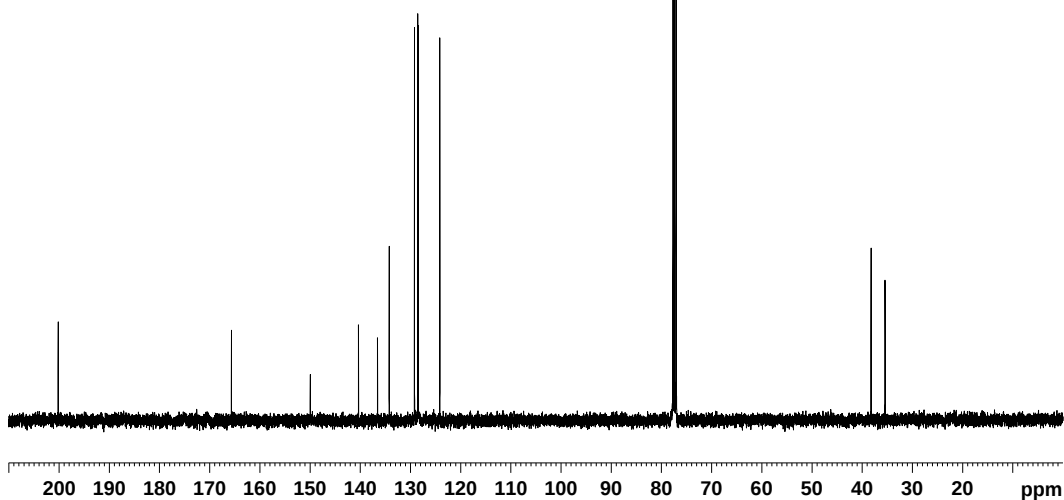
Current Data Parameters
NAME 50-313-2
EXPNO 60
PROCNO 1

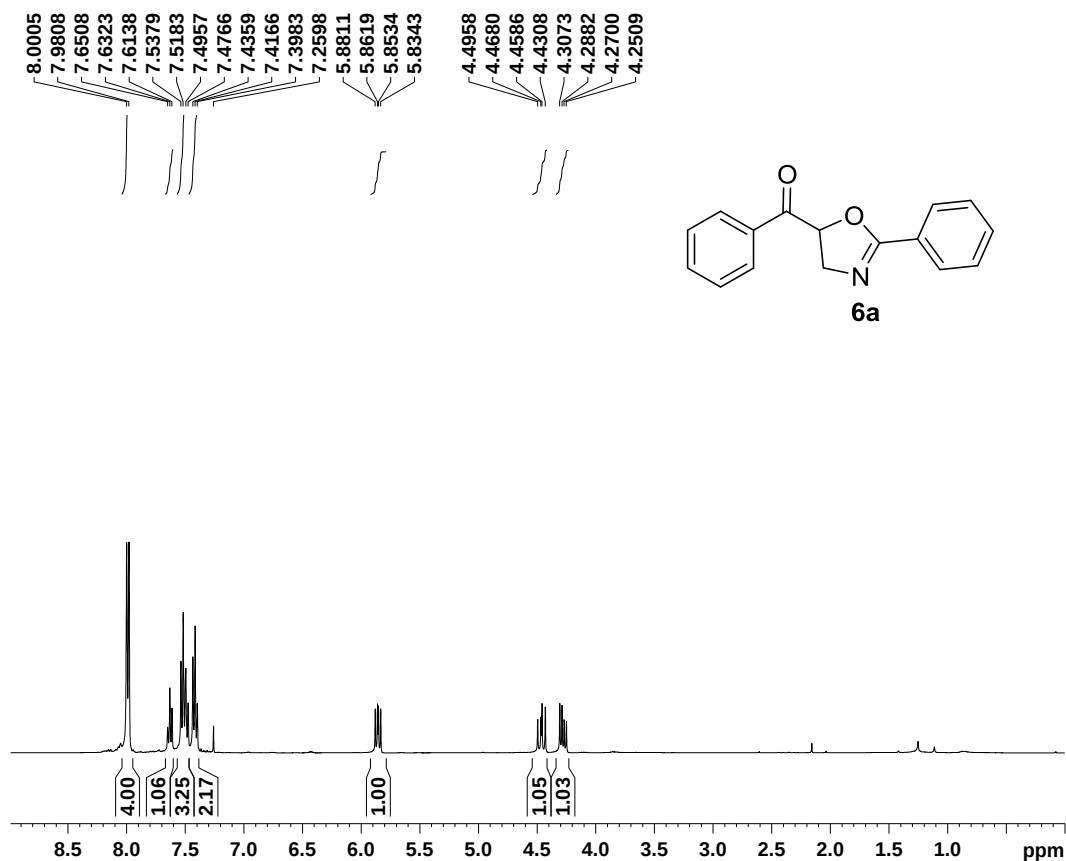
F2 - Acquisition Parameters
Date_ 20151113
Time 13.15
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127337 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



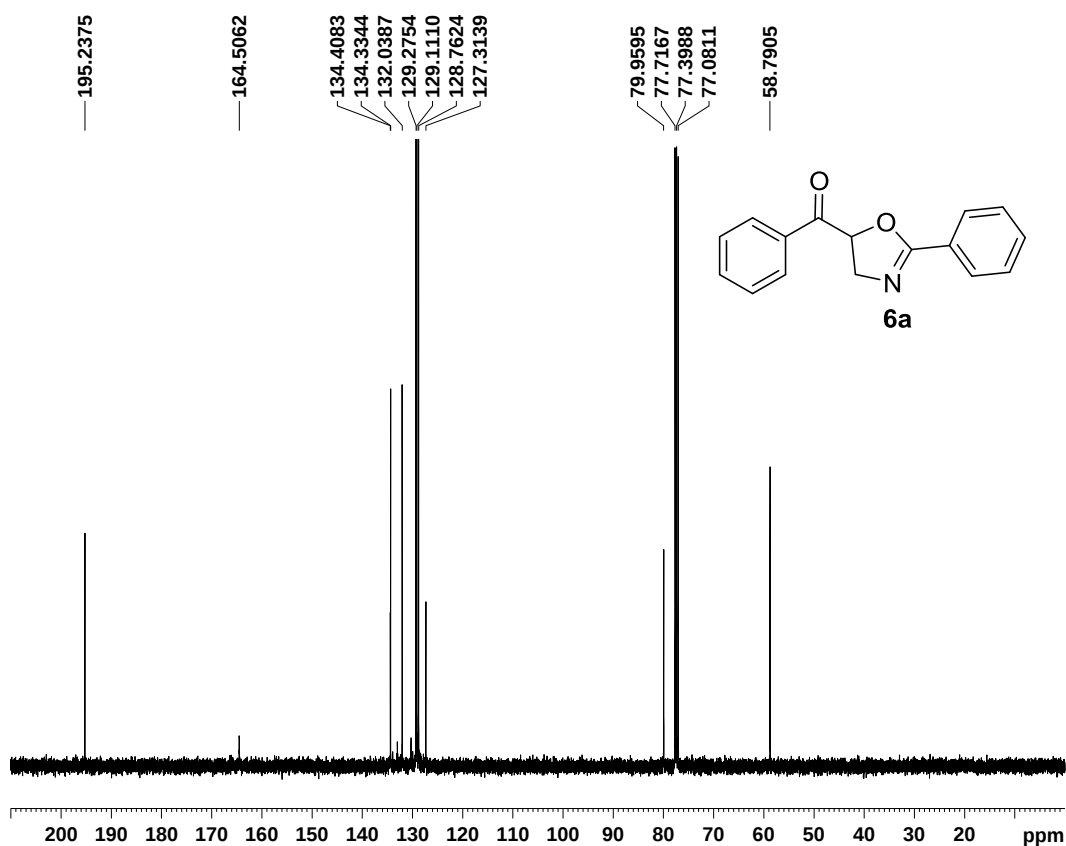


Current Data Parameters
NAME SQ-362
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150918
Time 10.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 59.2
DW 60.800 usec
DE 10.69 usec
TE 294.0 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



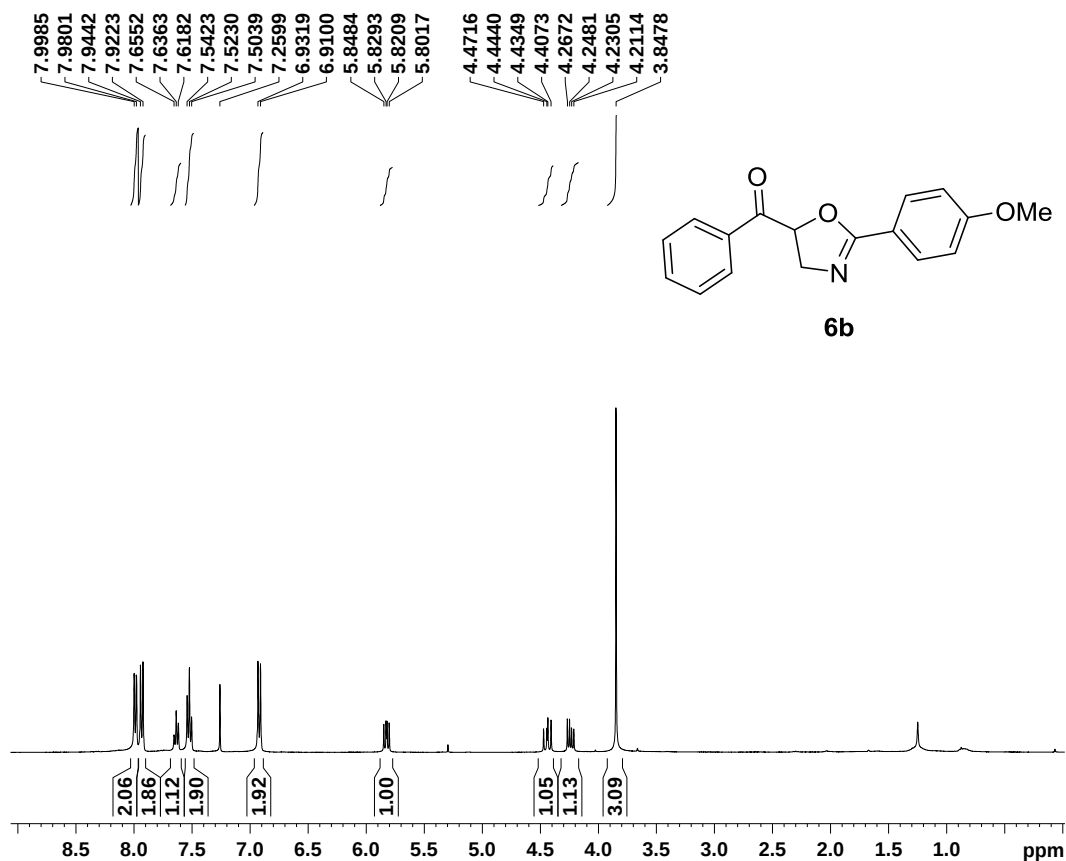
Current Data Parameters
NAME SQ-362
EXPNO 41
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150918
Time 11.03
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SF02 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127369 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40



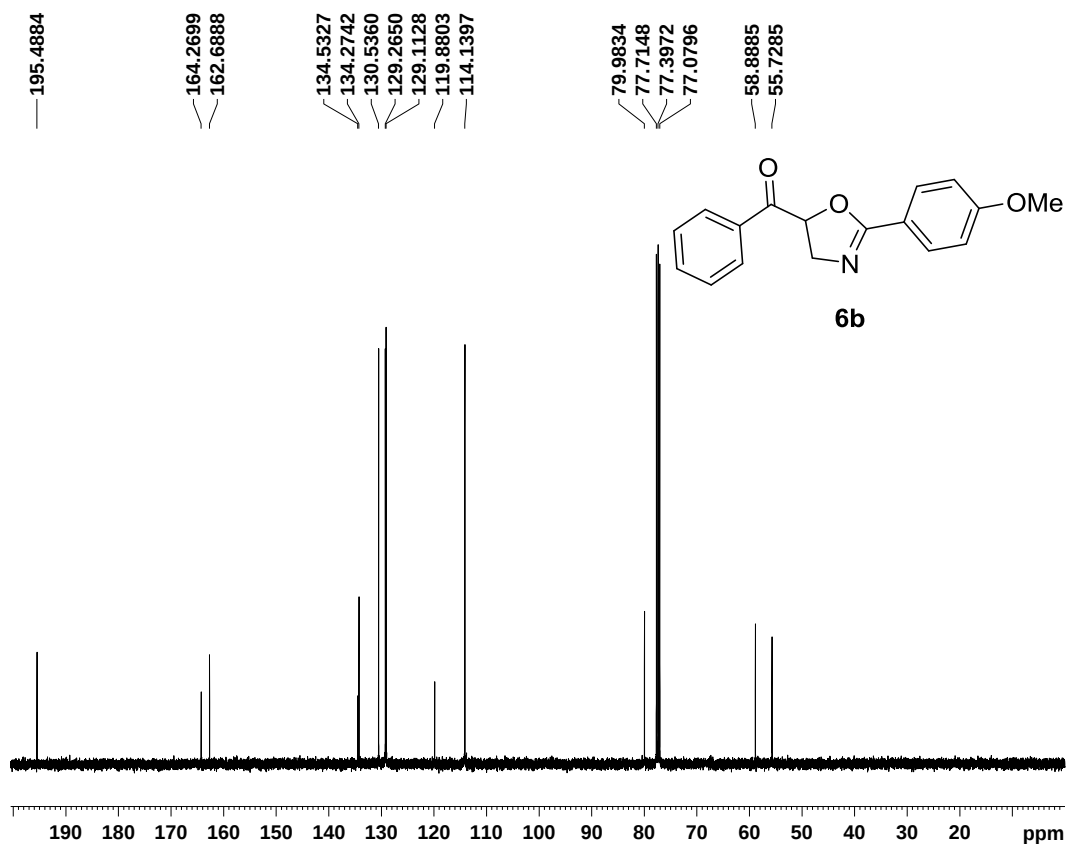
University of HUDDERSFIELD

Current Data Parameters
NAME SO-318
EXPNO 90
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151112
Time 9.48
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.8 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300101 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



University of HUDDERSFIELD

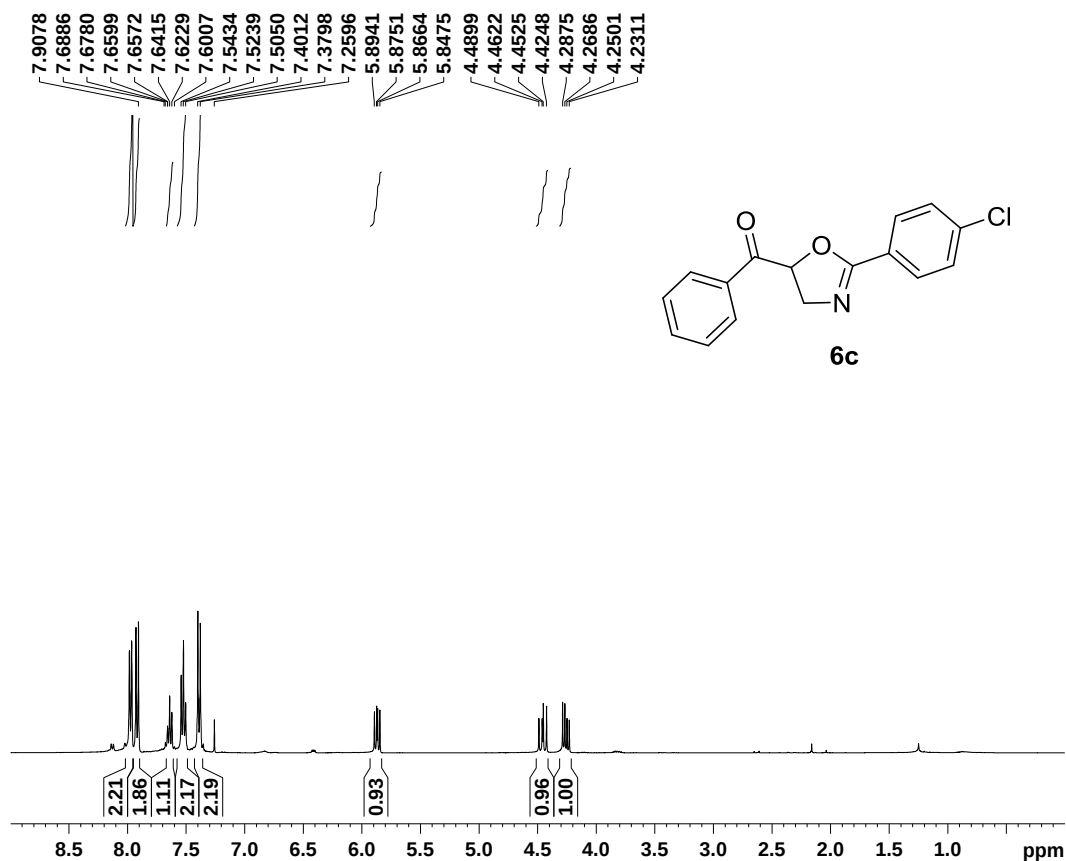
Current Data Parameters
NAME SO-328
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150730
Time 9.40
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 297.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
PCPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127336 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

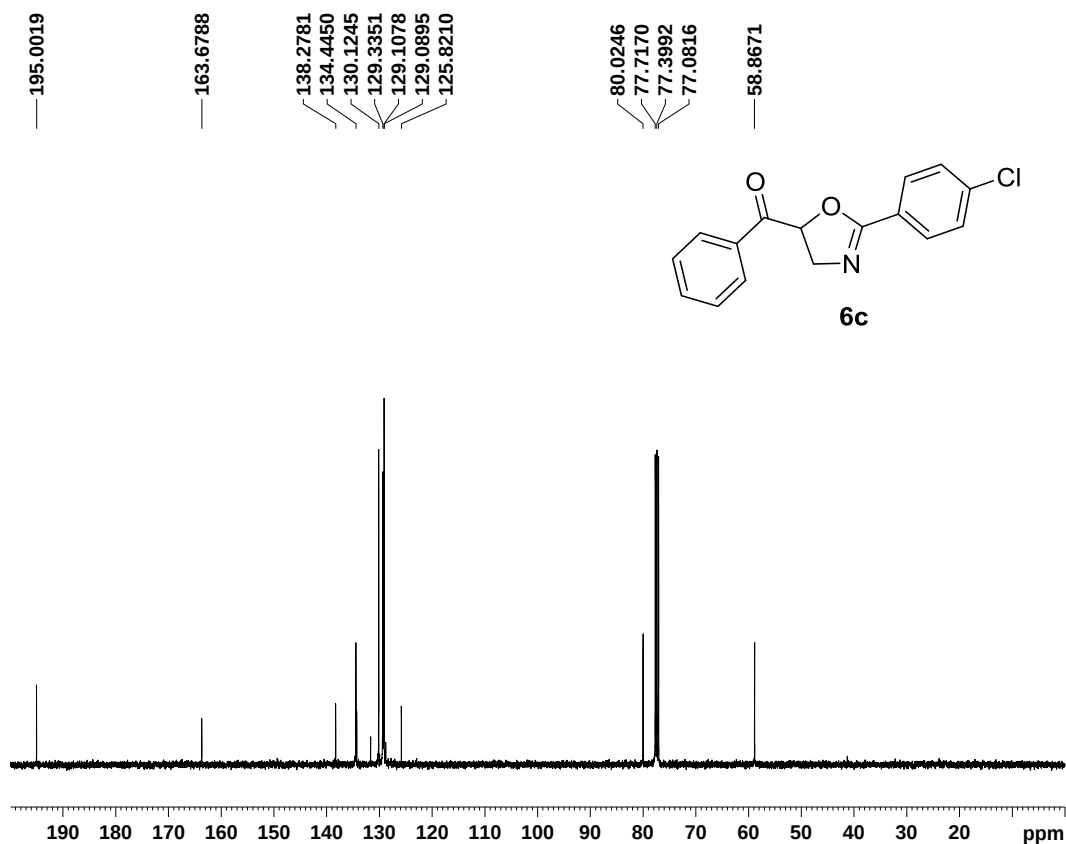


Current Data Parameters
NAME SQ-388
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151130
Time 13.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 56.49
DW 60.800 usec
DE 10.69 usec
TE 293.5 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



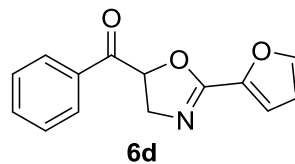
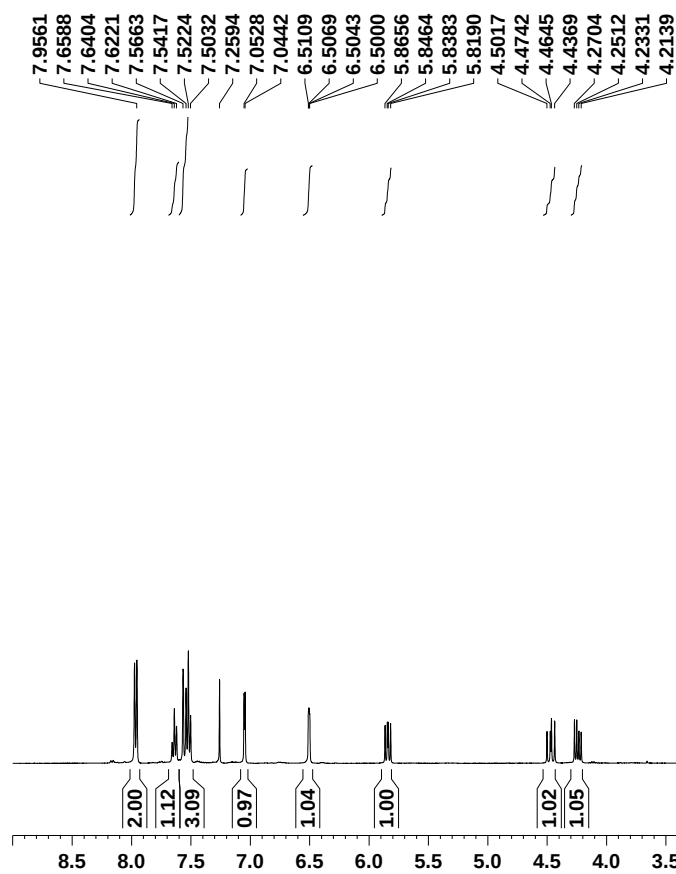
Current Data Parameters
NAME SQ-388
EXPNO 41
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151130
Time 13.28
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127354 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

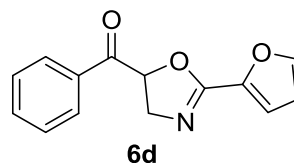
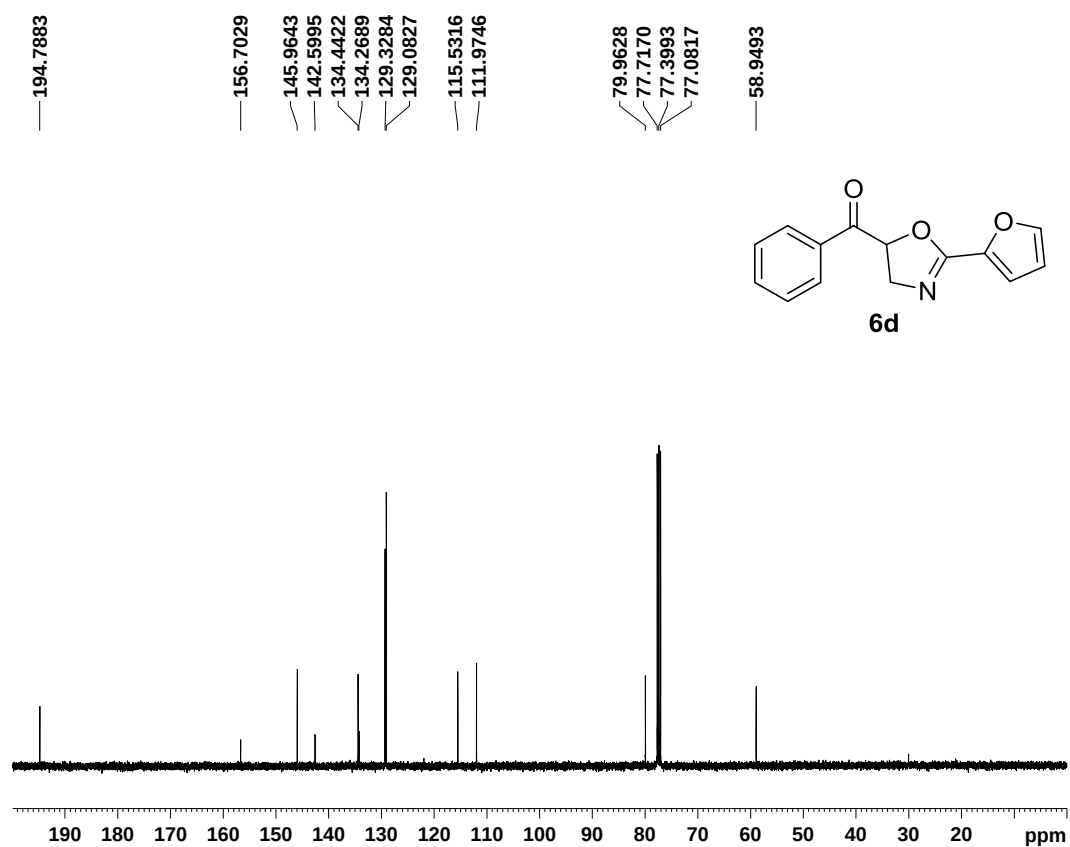


Current Data Parameters
NAME SO-365
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150921
Time 10.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl₃
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.945889 sec
RG 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300101 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



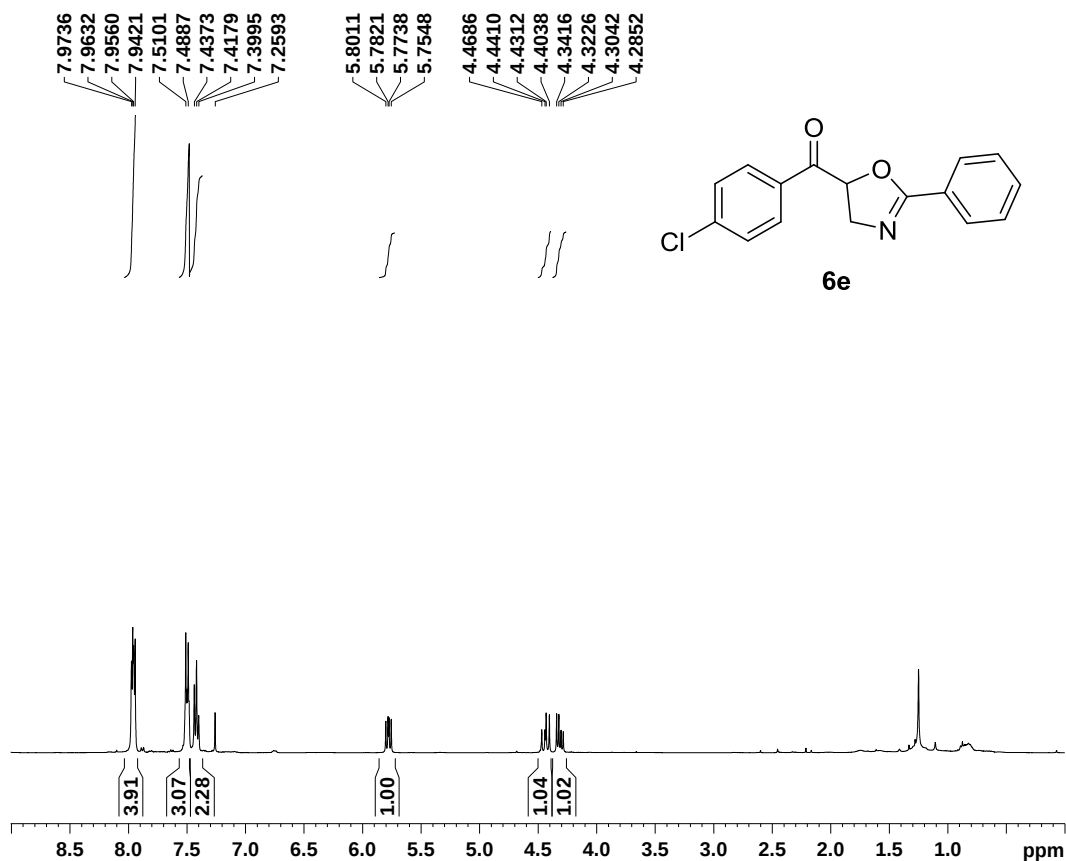
Current Data Parameters
NAME SO-365
EXPNO 71
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150921
Time 13.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl₃
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127341 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40



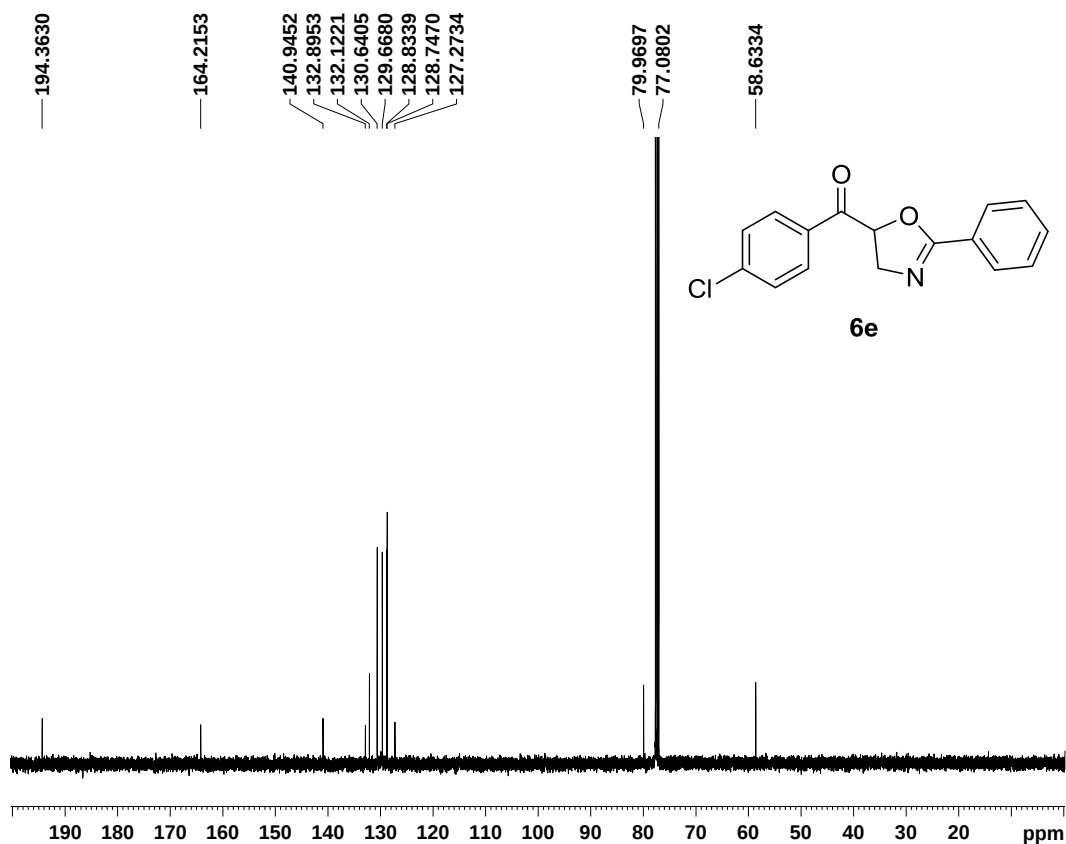
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Current Data Parameters
NAME SQ-397
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151026
Time 16.36
INSTRUM spect
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 81.67
DW 60.800 usec
DE 10.69 usec
TE 293.6 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



University of HUDDERSFIELD

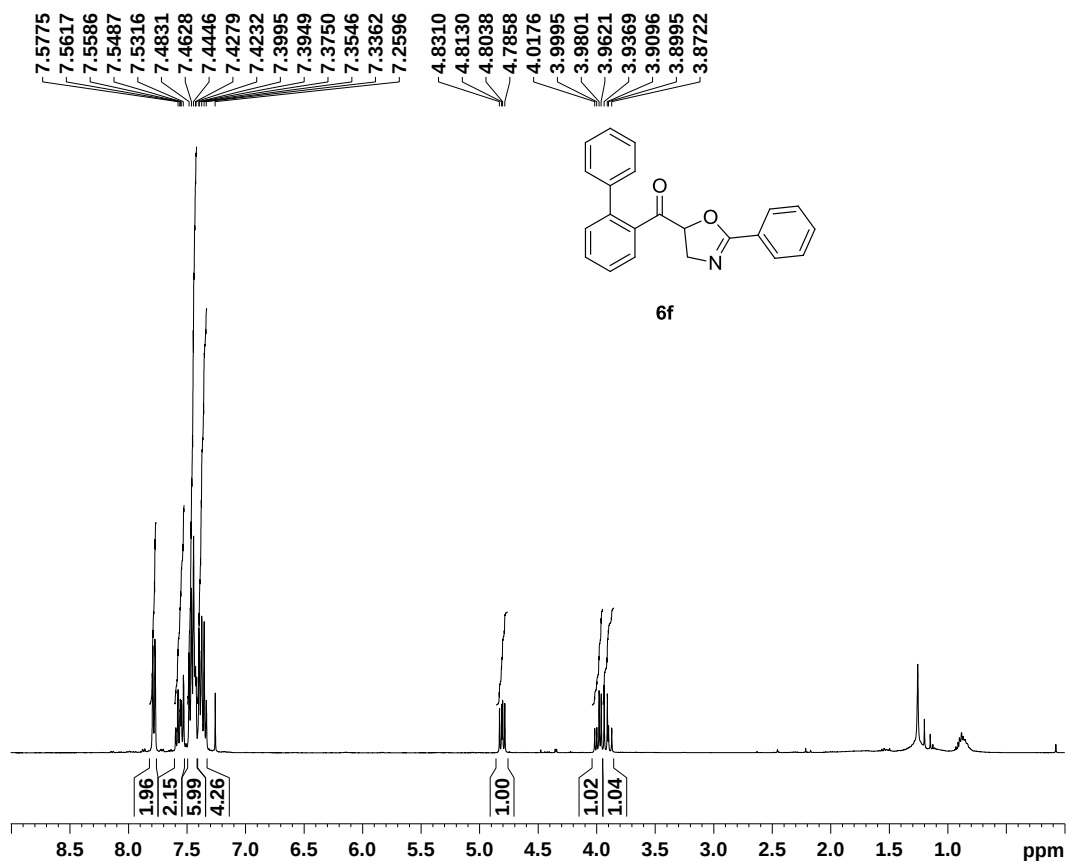
Current Data Parameters
NAME SQ-333
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150817
Time 12.55
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127324 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

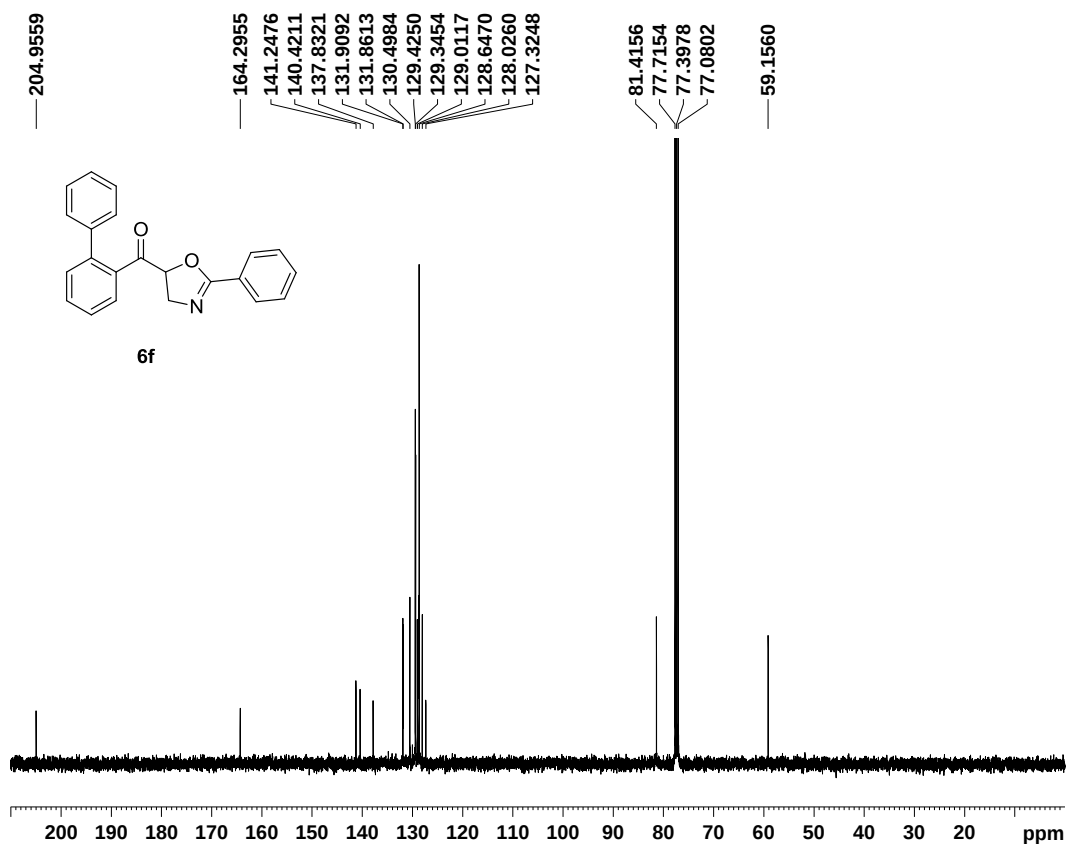


Current Data Parameters
NAME SO-434
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151209
Time 9.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 65.91
DW 60.800 usec
DE 10.69 usec
TE 293.5 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



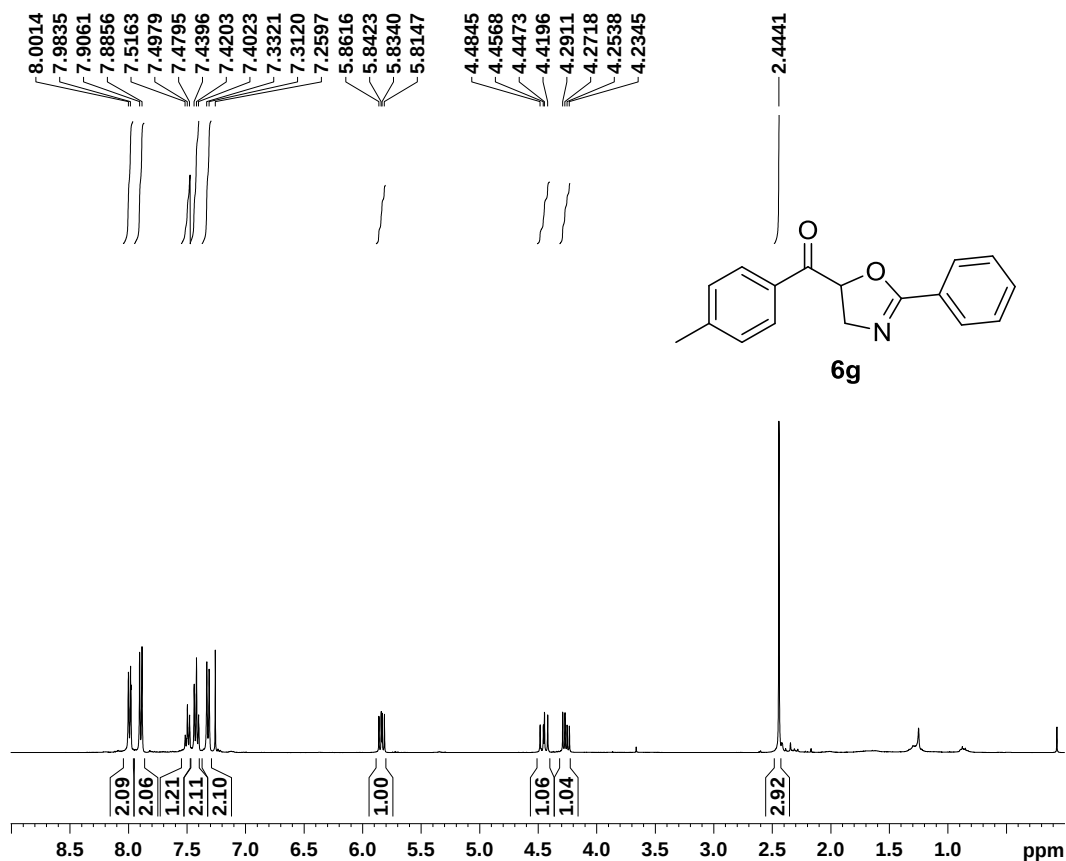
Current Data Parameters
NAME SO-399
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151023
Time 9.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 293.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127334 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

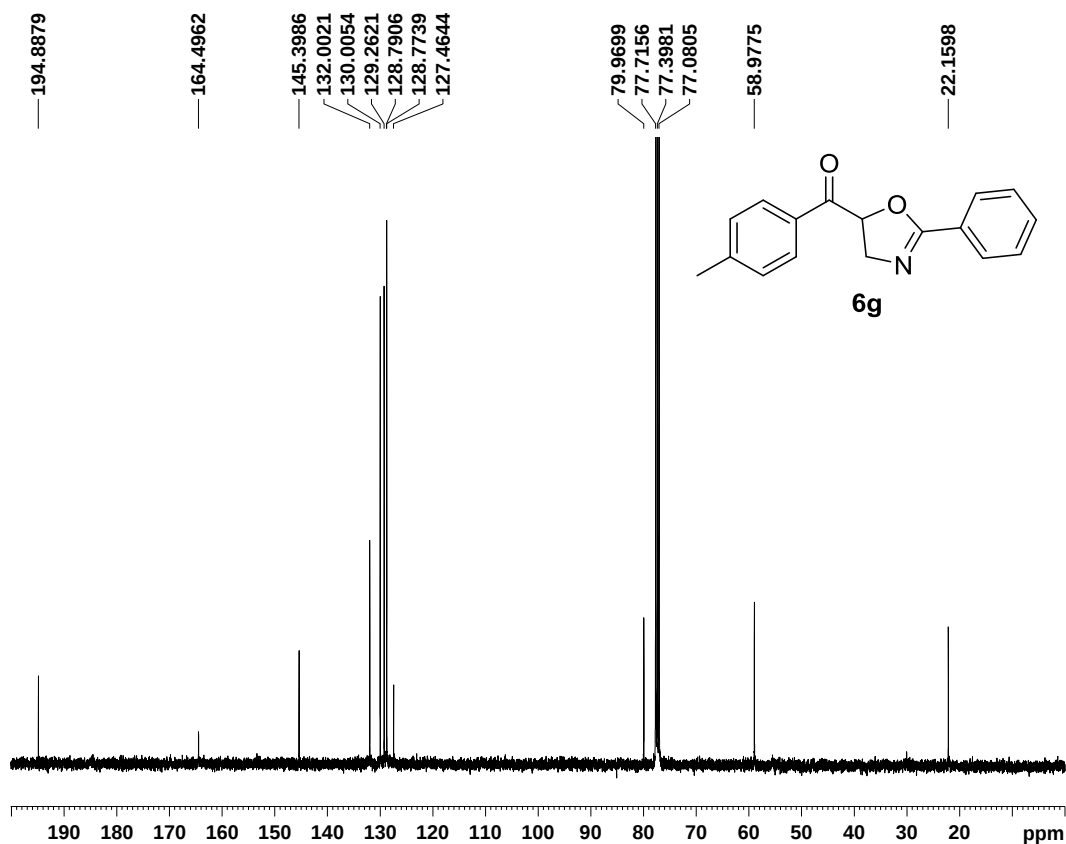


Current Data Parameters
NAME SQ-441
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160113
Time 11.06
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300100 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



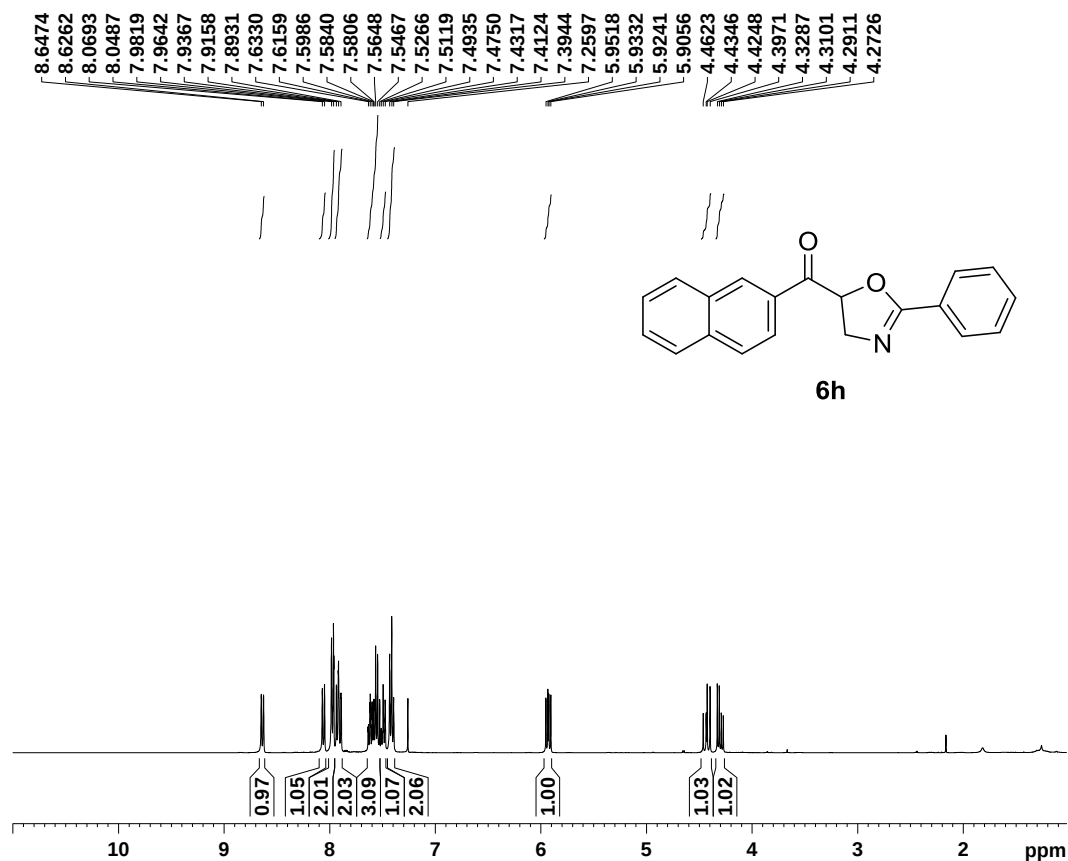
Current Data Parameters
NAME SQ-441
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160114
Time 11.38
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127324 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

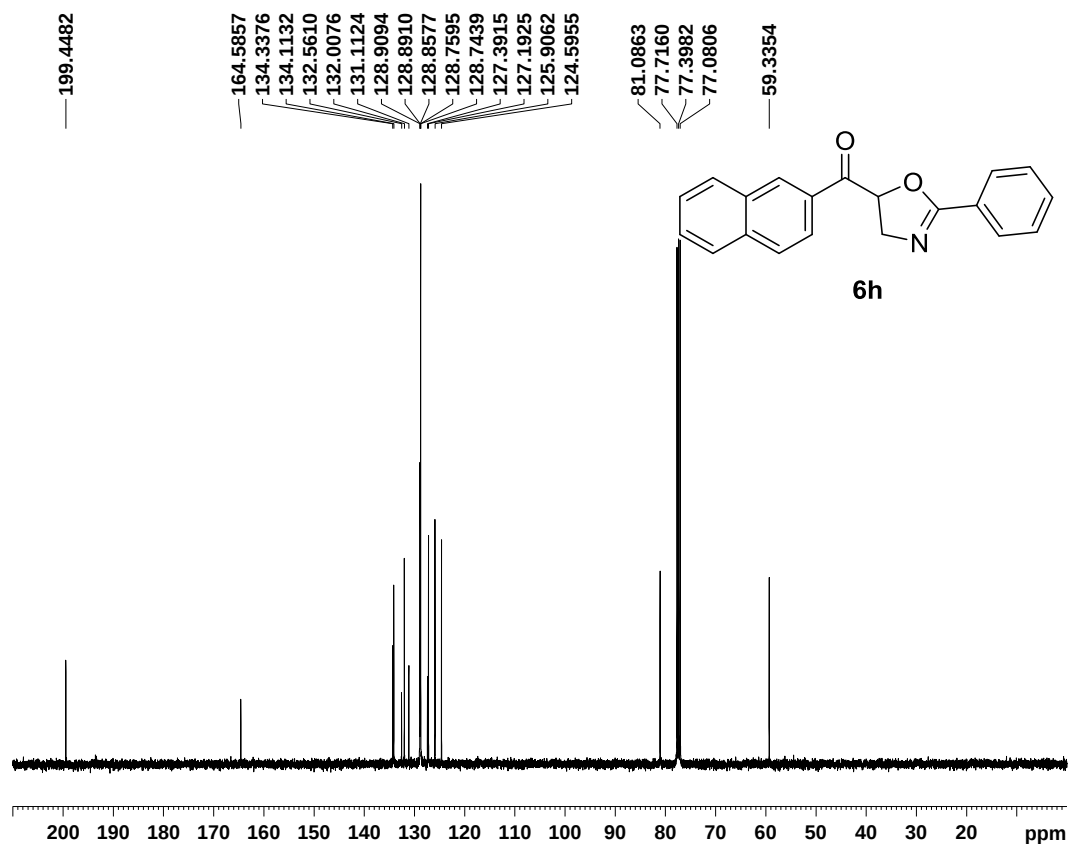


Current Data Parameters
NAME SQ-443
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160121
Time 12.26
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 50.36
DW 60.800 usec
DE 10.69 usec
TE 293.5 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



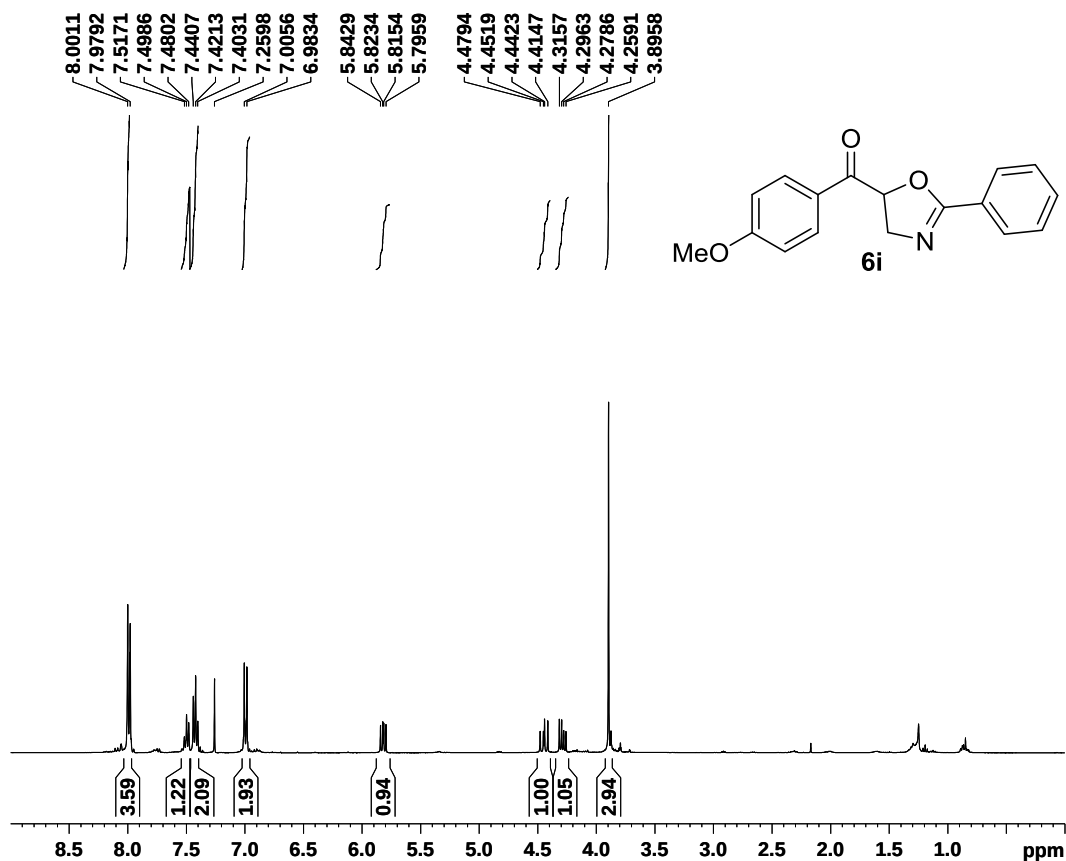
Current Data Parameters
NAME SQ-443
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160121
Time 12.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127362 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

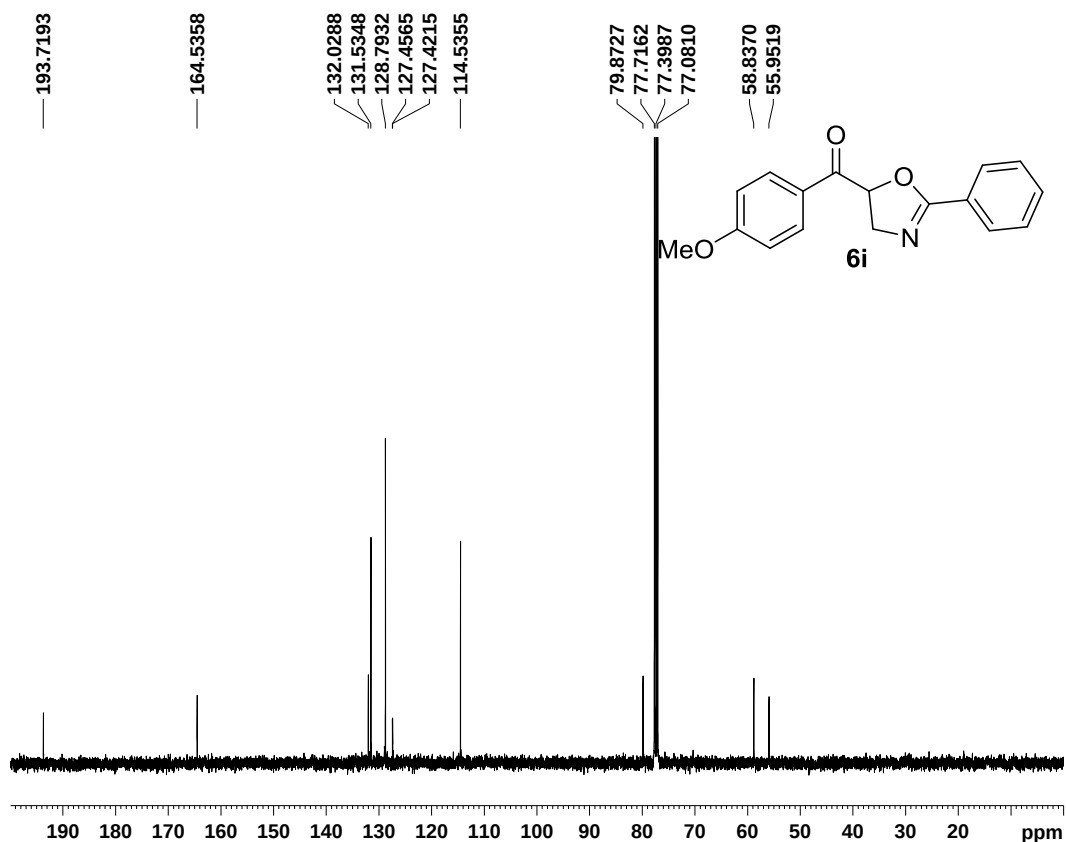


Current Data Parameters
NAME SQ-423
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151123
Time 9.17
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.6 K
D1 2.0000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.0000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



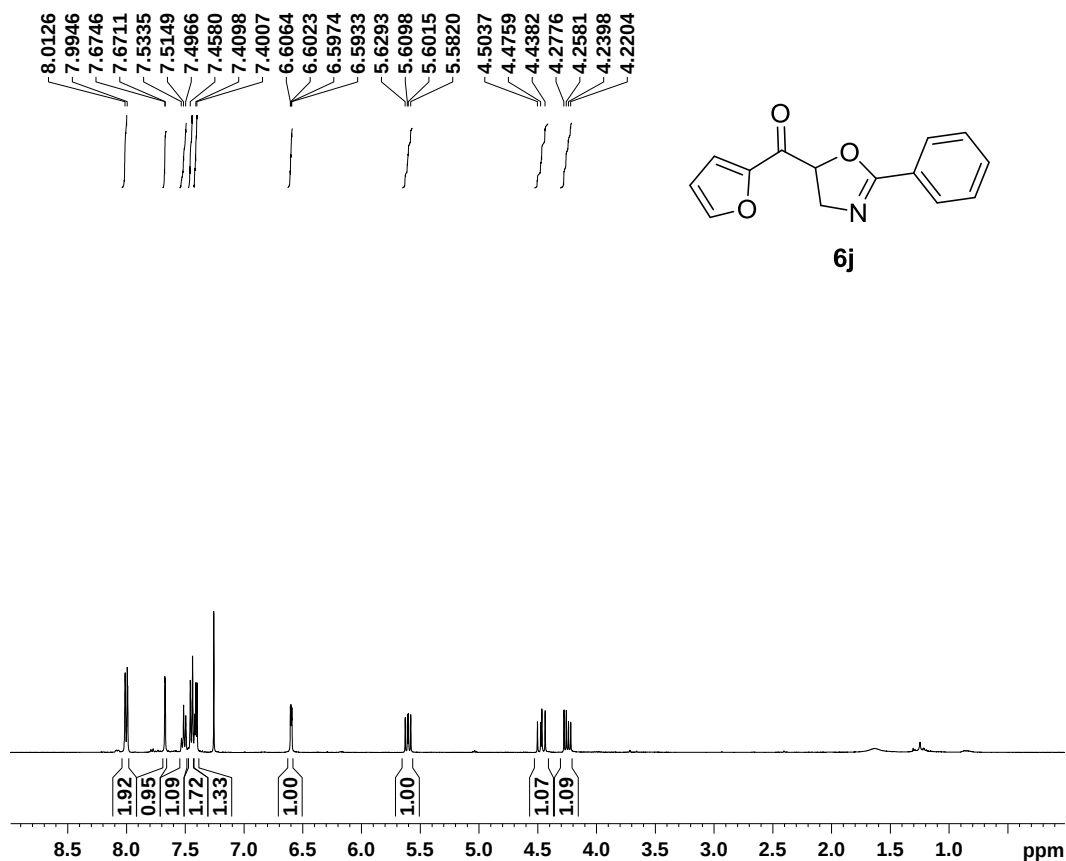
Current Data Parameters
NAME SQ-423
EXPNO 41
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151123
Time 9.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.1 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.0000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 24.0000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127329 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



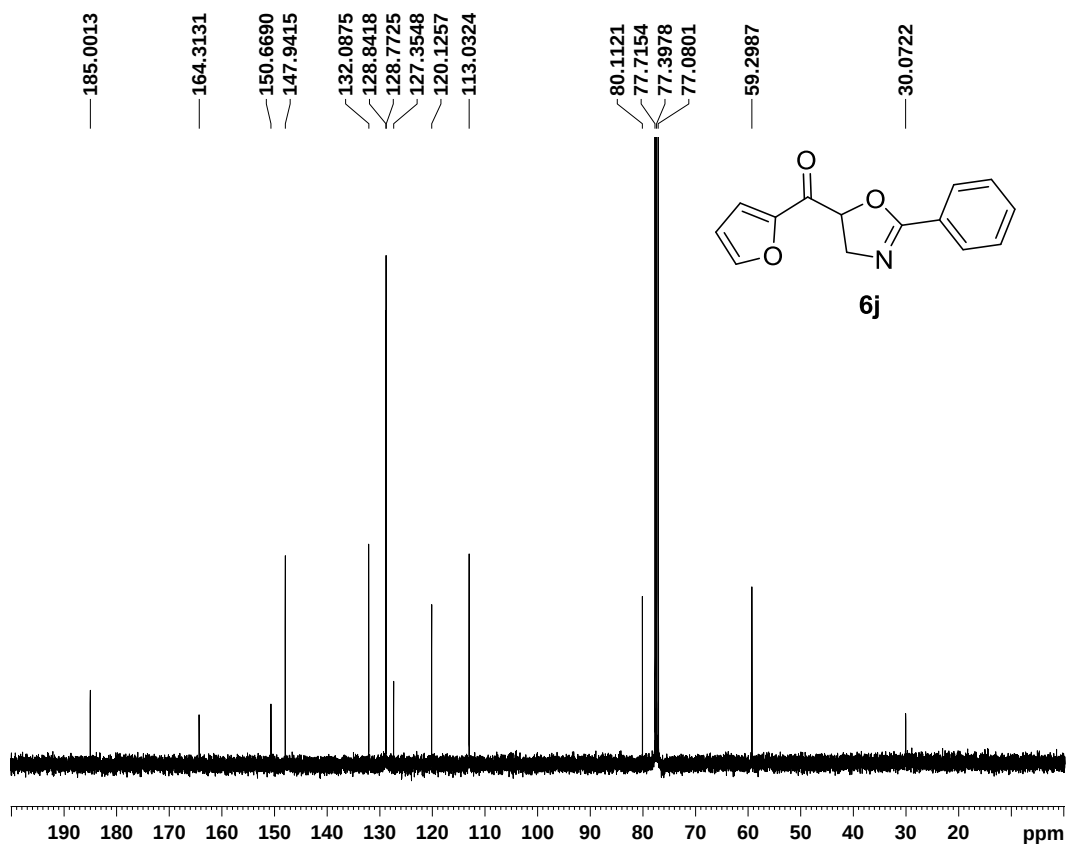
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Current Data Parameters
NAME SO-304
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150605
Time 13.00
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300106 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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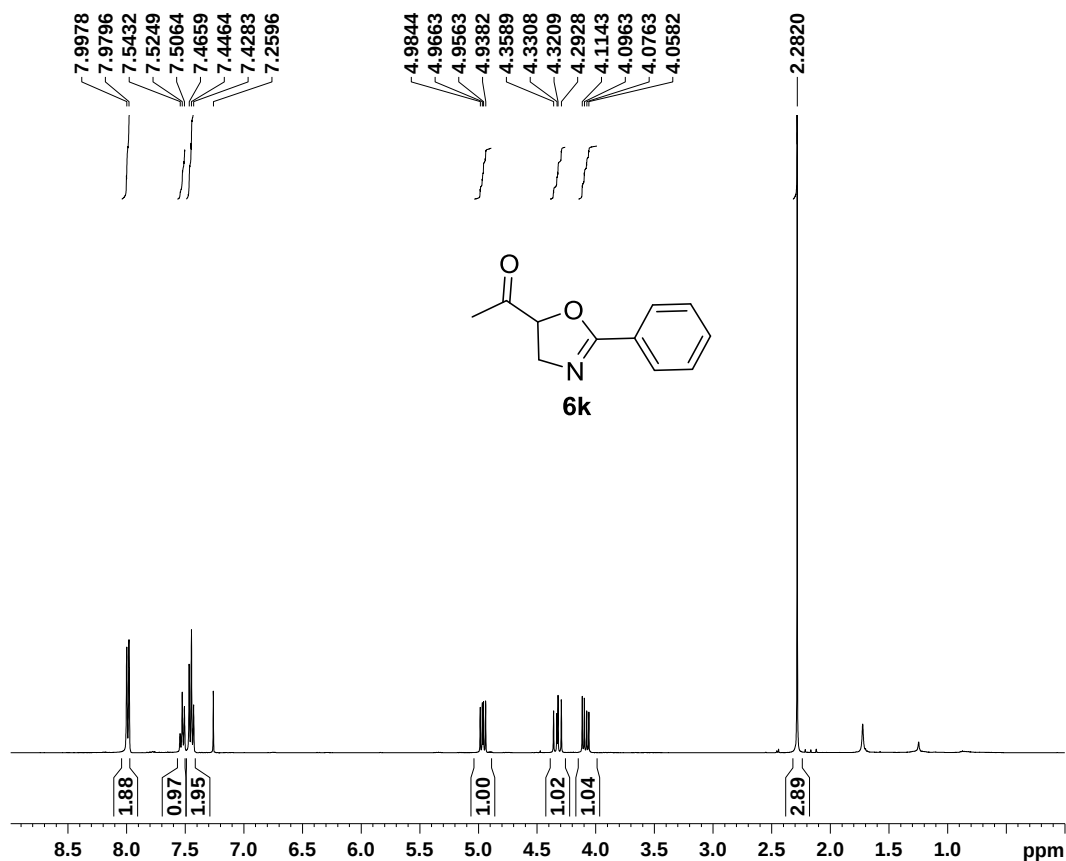
Current Data Parameters
NAME SO-304
EXPNO 50
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150605
Time 22.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127329 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

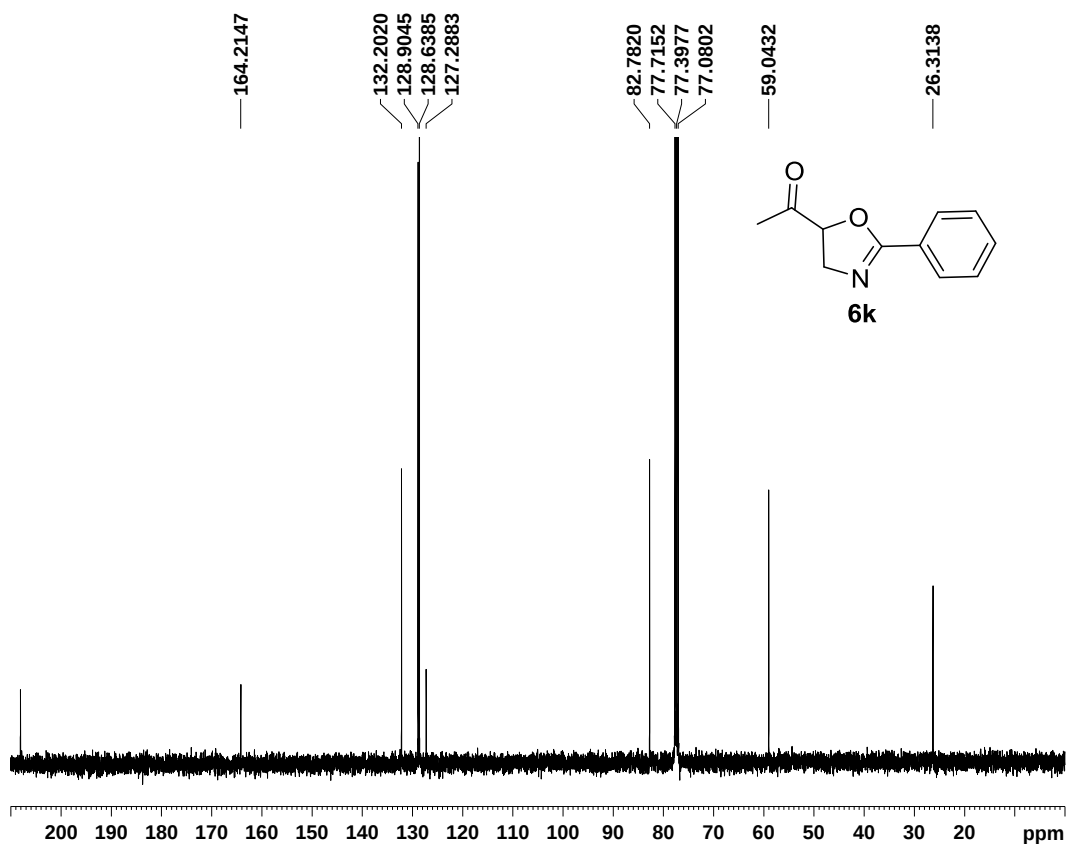


Current Data Parameters
NAME SQ-406
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151105
Time 9.30
INSTRUM spect
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 104.33
DW 60.800 usec
DE 10.69 usec
TE 293.4 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



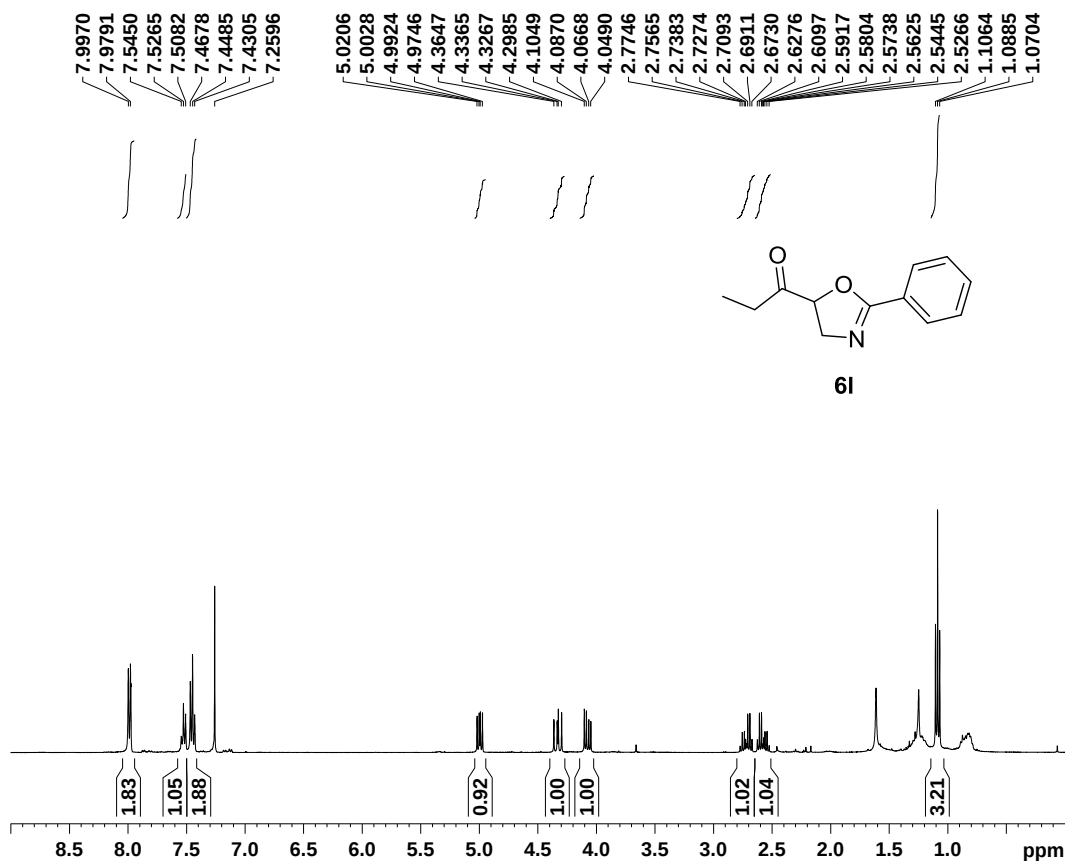
Current Data Parameters
NAME SQ-406
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151105
Time 9.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 293.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
PCPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127332 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



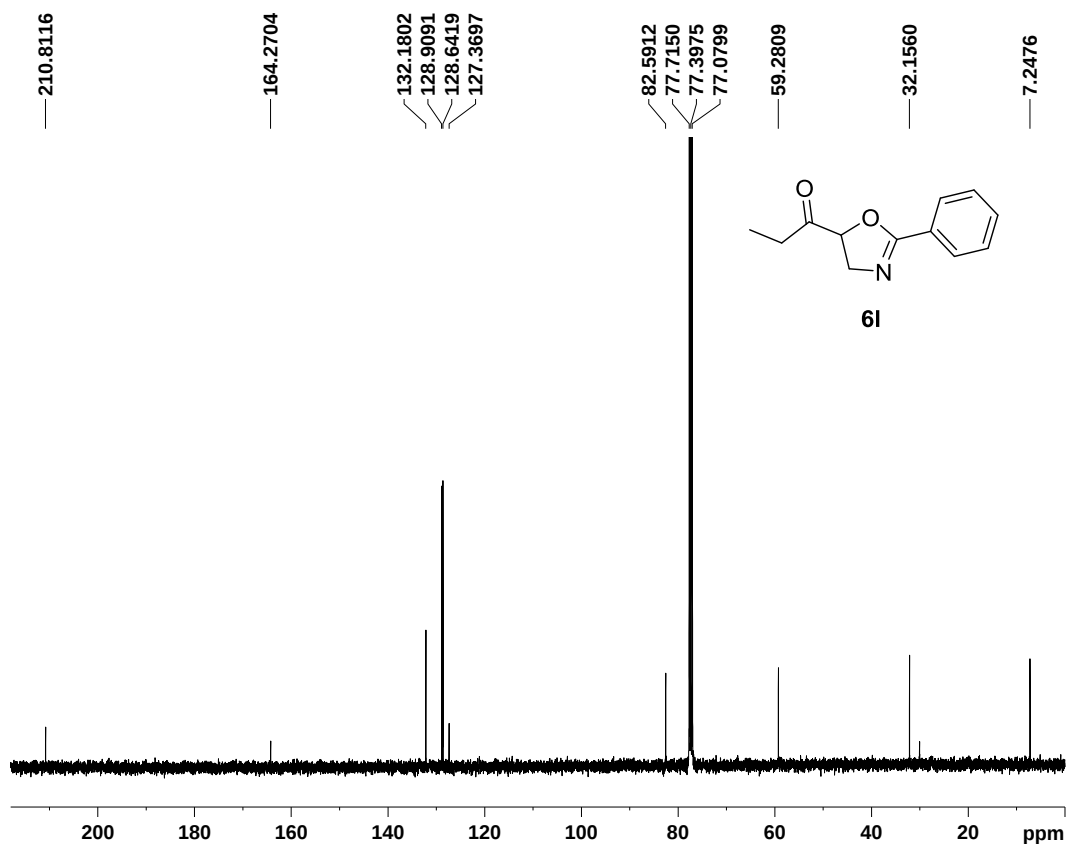
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Current Data Parameters
NAME SO-431
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151127
Time 13.25
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300099 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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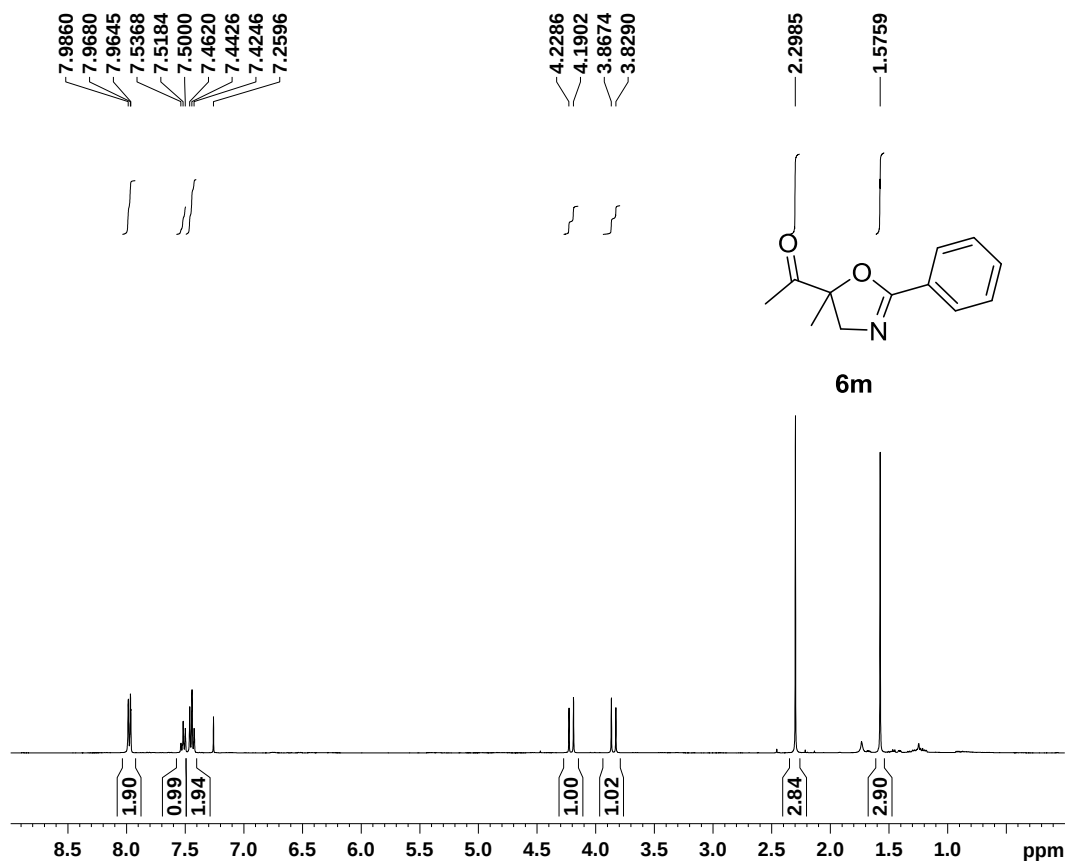
Current Data Parameters
NAME SO-431
EXPNO 50
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151130
Time 23.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl₃
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127316 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

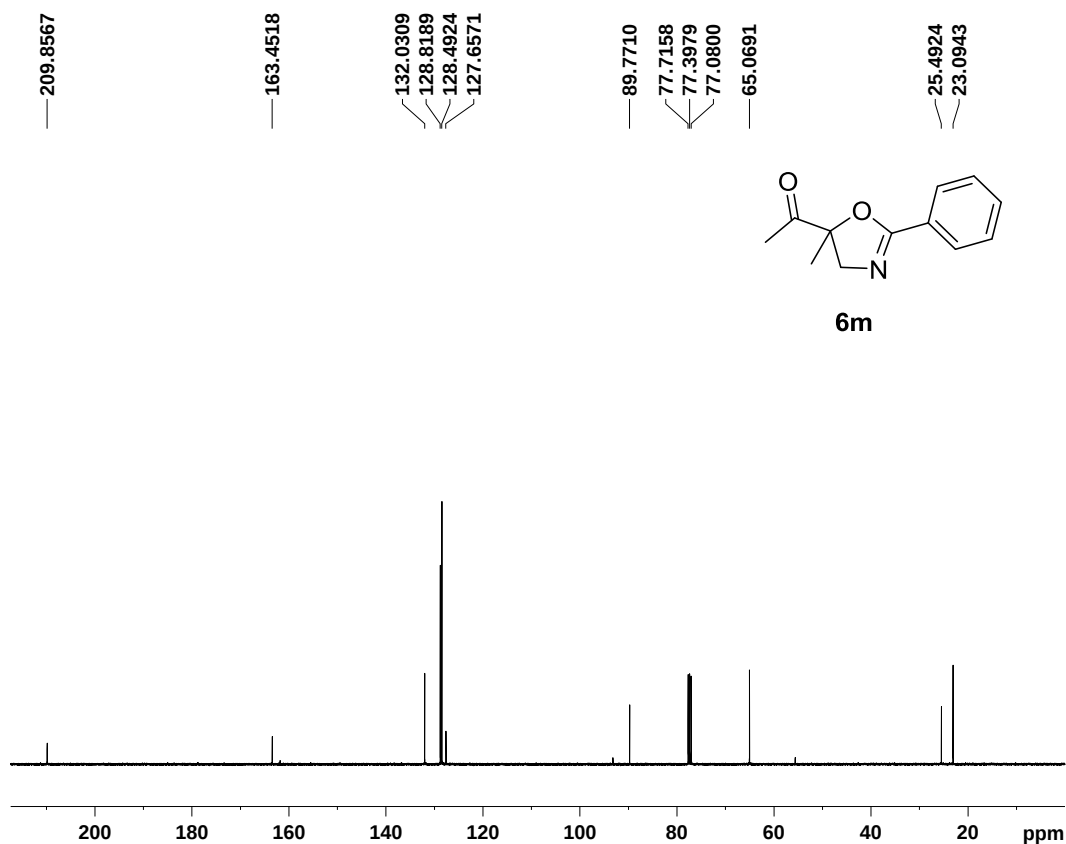


Current Data Parameters
NAME SQ-407
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151105
Time 10.10
INSTRUM spect
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 104.33
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300097 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



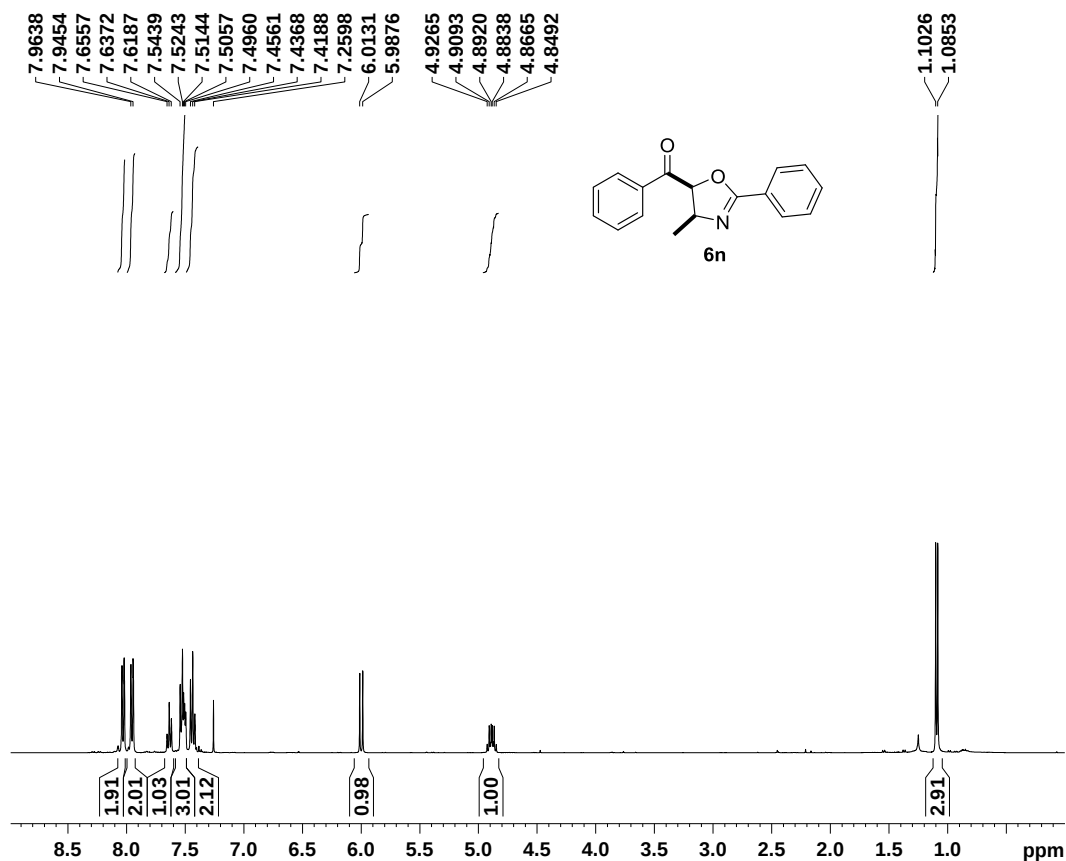
Current Data Parameters
NAME SQ-314
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150619
Time 19.18
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127366 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

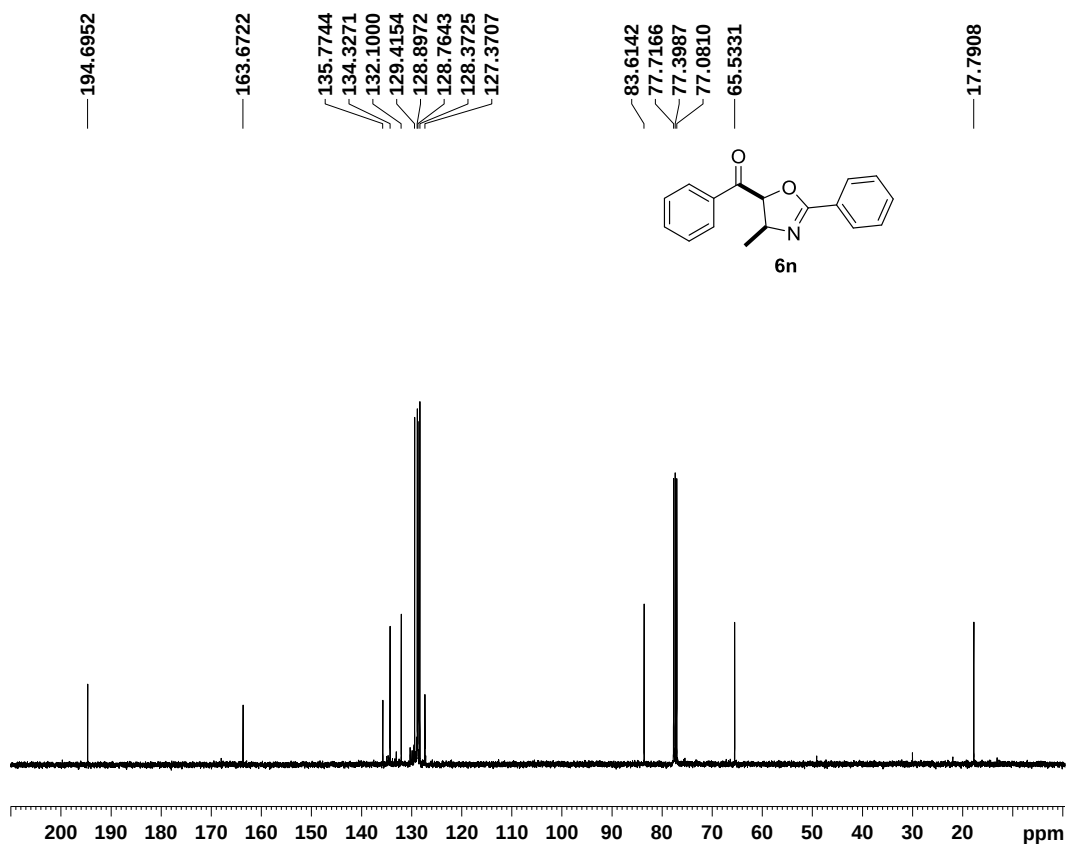


Current Data Parameters
NAME SQ-385
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151008
Time 15.30
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 92.46
DW 60.800 usec
DE 10.69 usec
TE 294.5 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300097 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



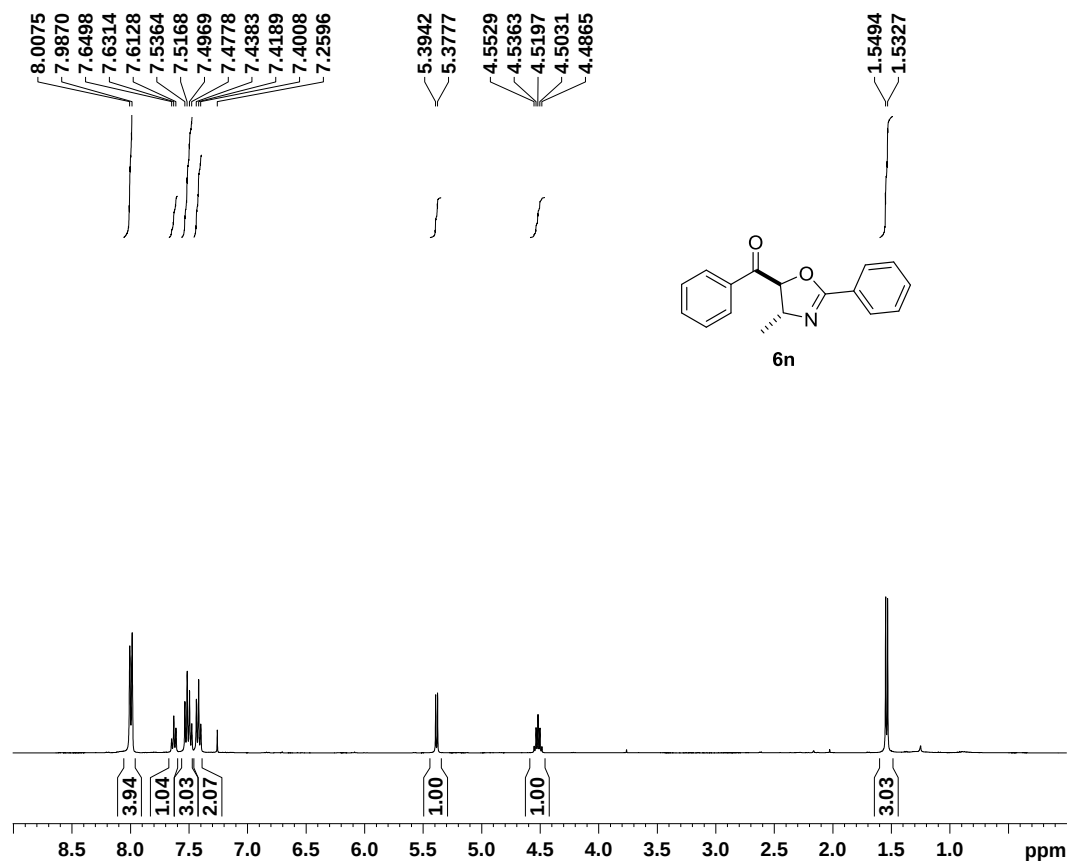
Current Data Parameters
NAME SQ-385
EXPNO 71
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151028
Time 14.07
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SF02 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127359 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

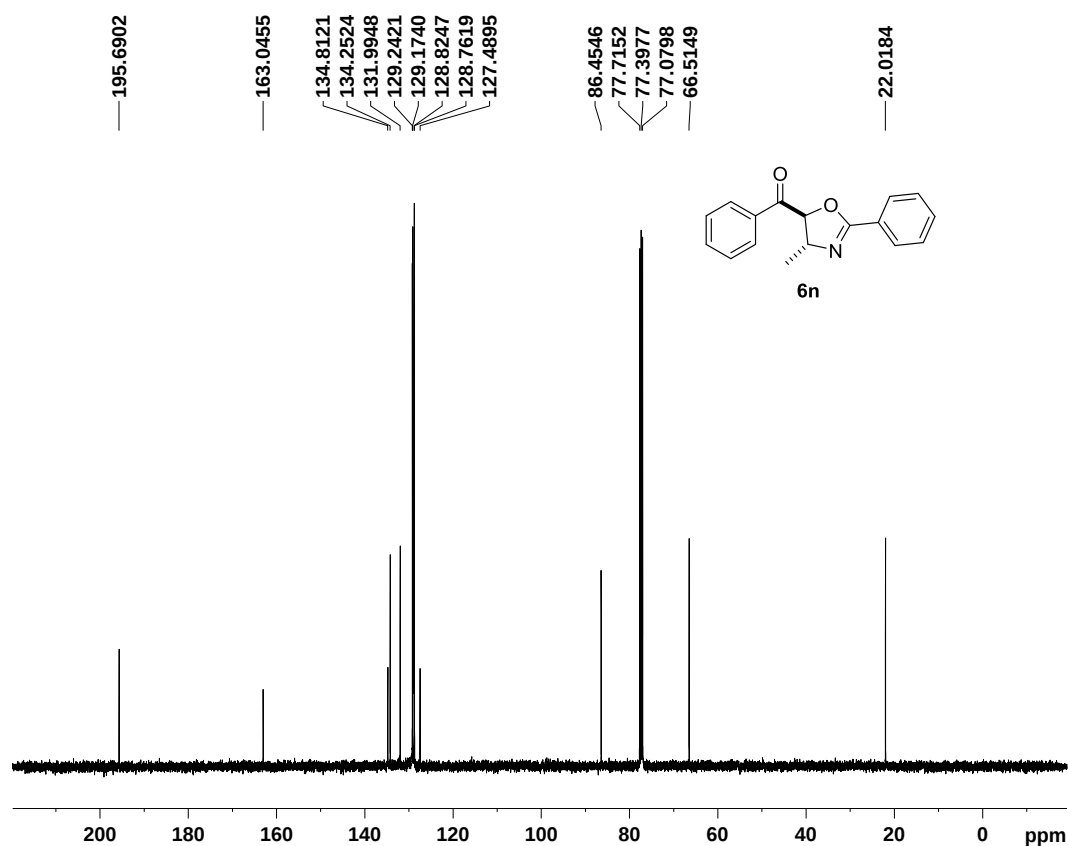


Current Data Parameters
NAME SO-365
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151028
Time 13.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl₃
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9845889 sec
RG 50.36
DW 60.800 usec
DE 10.69 usec
TE 294.1 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300097 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



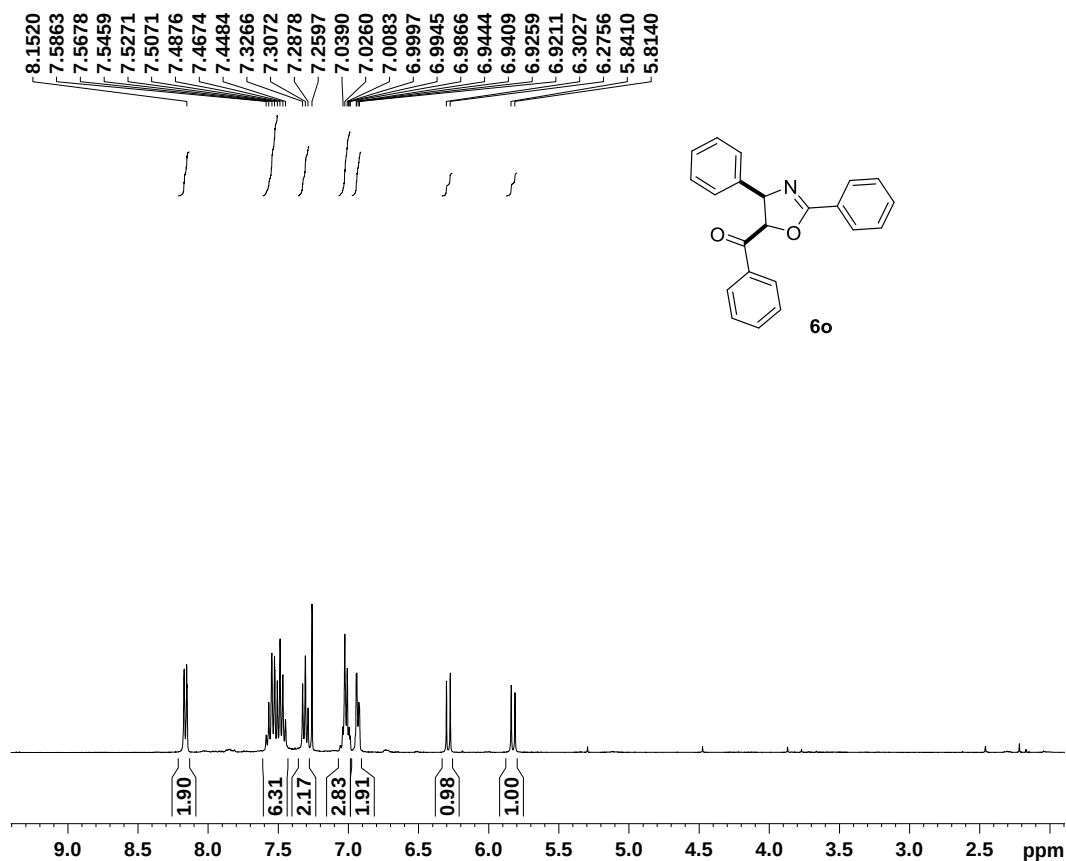
Current Data Parameters
NAME SO-365
EXPNO 61
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151028
Time 13.47
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl₃
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 294.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
PCPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127352 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

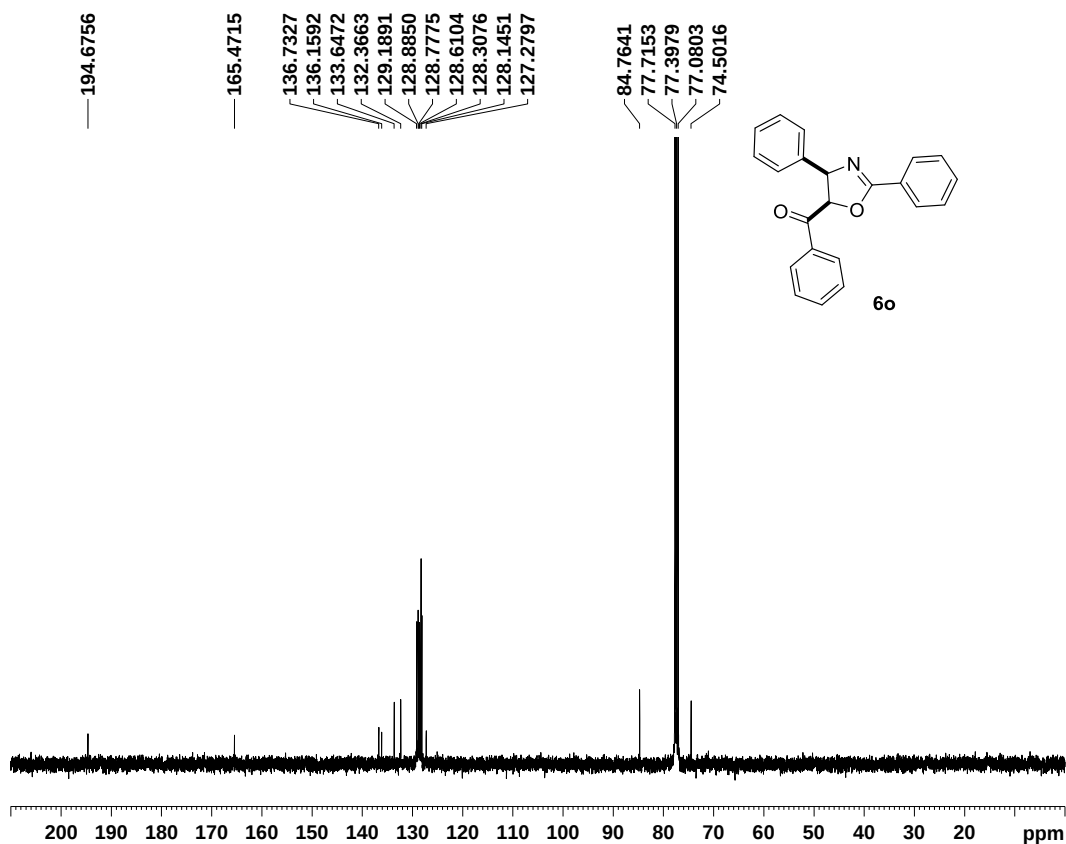


Current Data Parameters
NAME: SO-387
EXPNO: 40
PROCNO: 1

F2 - Acquisition Parameters
Date_: 20151028
Time: 17.31
INSTRUM: spect
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: 147.88
DW: 60.800 usec
DE: 10.69 usec
TE: 294.2 K
D1: 2.00000000 sec
TDO: 1

----- CHANNEL f1 -----
SFO1: 400.1324710 MHz
NUC1: ¹H
P1: 8.00 usec
PLW1: 24.00000000 W

F2 - Processing parameters
SI: 32768
SF: 400.1300097 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.50



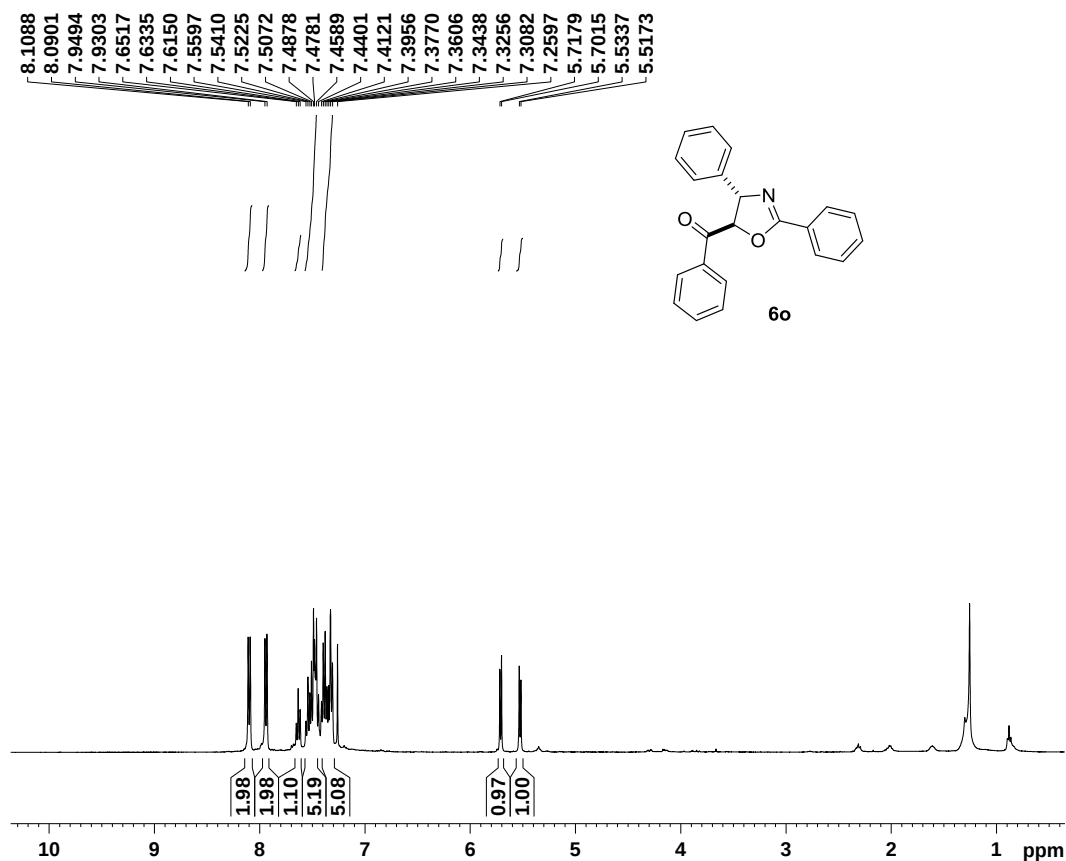
Current Data Parameters
NAME: SO-387
EXPNO: 60
PROCNO: 1

F2 - Acquisition Parameters
Date_: 20151030
Time: 9.17
INSTRUM: spect
PROBHD: 5 mm PABBO BB/
PULPROG: zgpg30
TD: 65536
SOLVENT: CDCl3
NS: 256
DS: 4
SWH: 24038.461 Hz
FIDRES: 0.366798 Hz
AQ: 1.3631488 sec
RG: 181.72
DW: 20.800 usec
DE: 8.18 usec
TE: 294.1 K
D1: 2.00000000 sec
D11: 0.03000000 sec
TDO: 1

----- CHANNEL f1 -----
SFO1: 100.6228303 MHz
NUC1: ¹³C
P1: 9.00 usec
PLW1: 77.00000000 W

----- CHANNEL f2 -----
SFO2: 400.1316005 MHz
NUC2: ¹H
CPDPRG[2]: waltz16
PCPD2: 90.00 usec
PLW2: 24.00000000 W
PLW12: 0.17567000 W
PLW13: 0.14229999 W

F2 - Processing parameters
SI: 65536
SF: 100.6127325 MHz
WDW: EM
SSB: 0
LB: 1.00 Hz
GB: 0
PC: 1.40



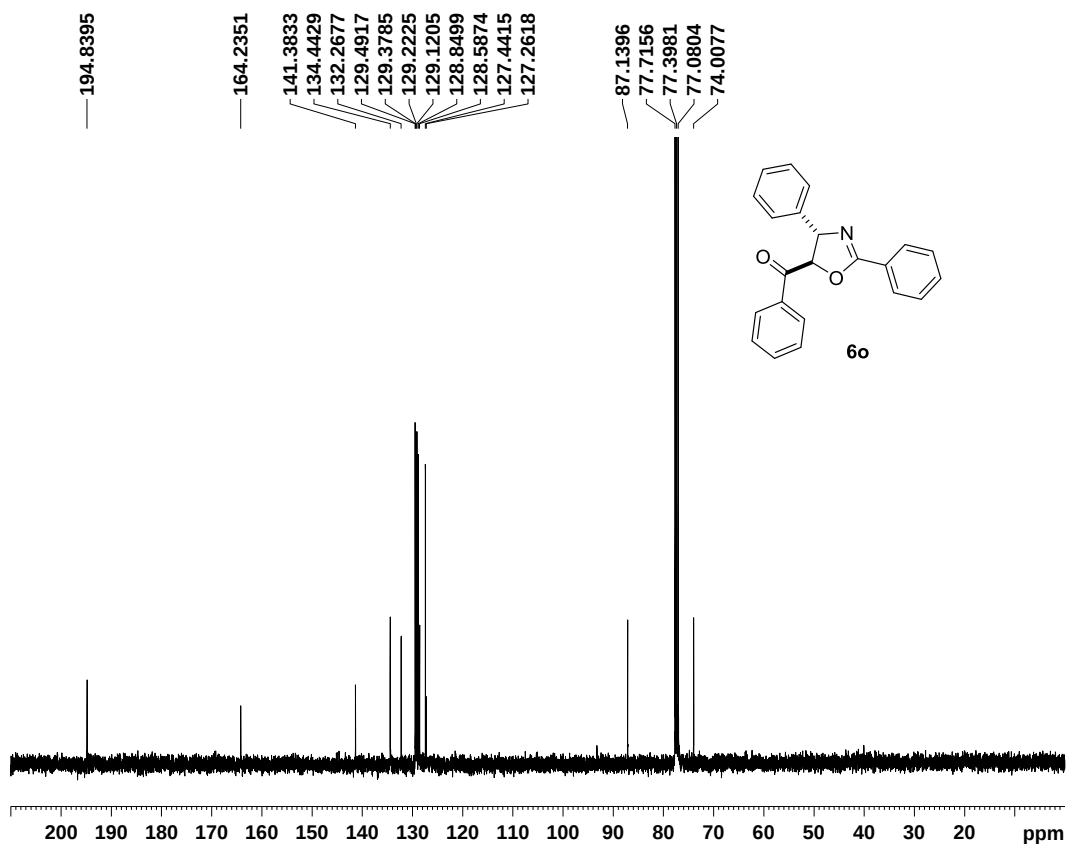
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Current Data Parameters
NAME SQ-251
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151028
Time 9.41
INSTRUM spect
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 104.33
DW 60.800 usec
DE 10.69 usec
TE 293.7 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SF01 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50



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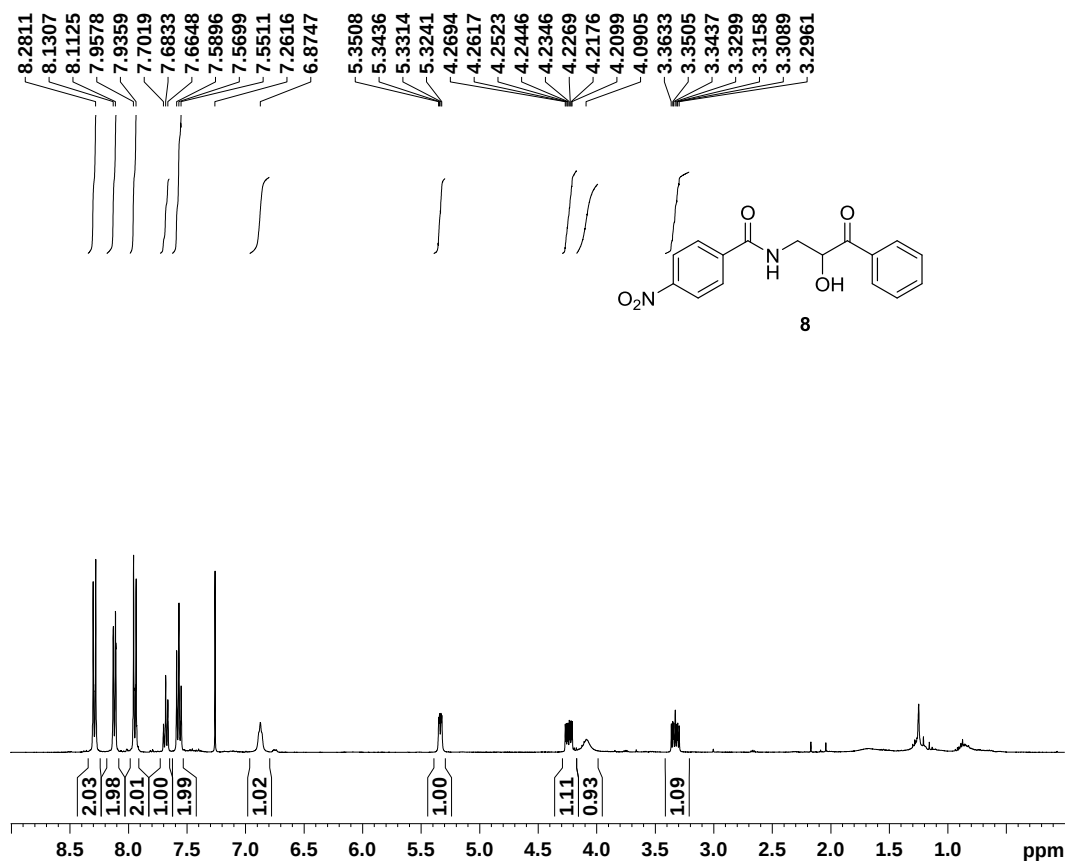
Current Data Parameters
NAME SQ-367
EXPNO 50
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151030
Time 9.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.600 usec
DE 8.18 usec
TE 294.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SF01 100.6228303 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SF02 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127330 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



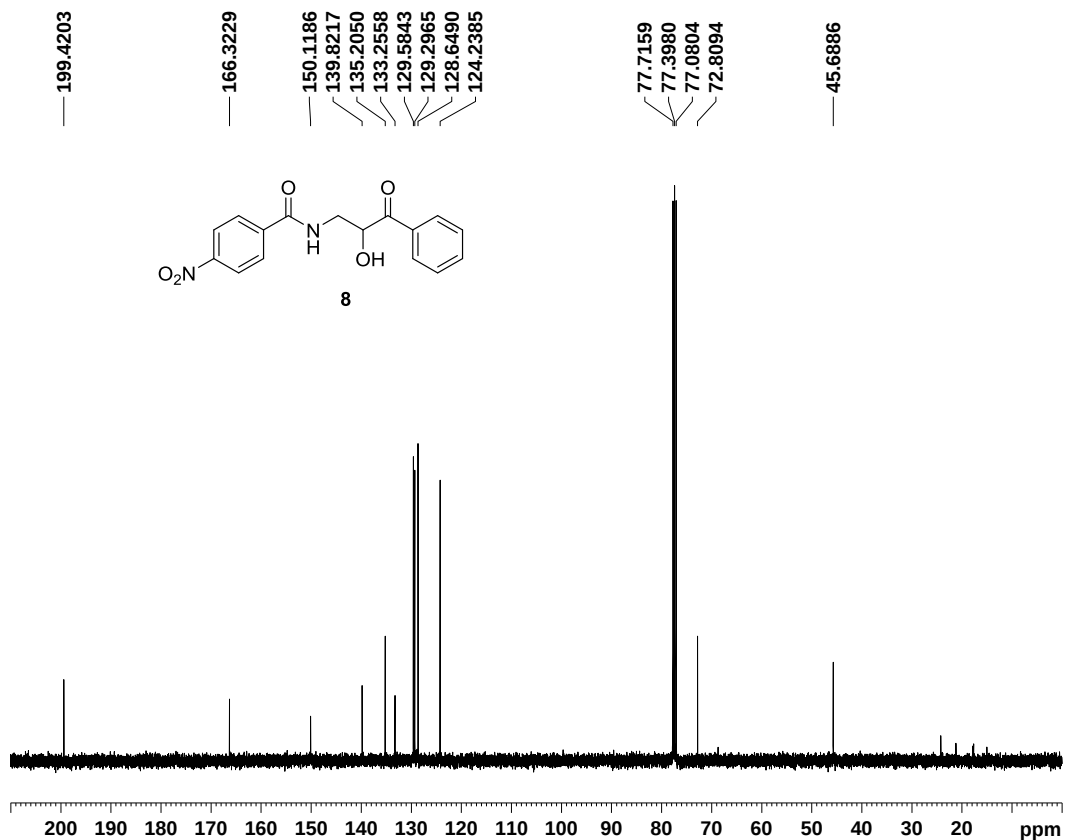
Current Data Parameters
NAME SO-382
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20151012
Time 5.26
INSTRUM spect
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 147.88
DW 60.800 usec
DE 10.69 usec
TE 294.0 K
D1 2.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 1H
P1 8.00 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 32768
SF 400.1300090 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.50

SO-382 C13



Current Data Parameters
NAME SO-382
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150708
Time 20.45
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 181.72
DW 20.800 usec
DE 8.18 usec
TE 295.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 100.6228284 MHz
NUC1 13C
P1 9.00 usec
PLW1 77.00000000 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
CPCPRG[2] waltz16
PCPD2 90.00 usec
PLW2 24.00000000 W
PLW12 0.17567000 W
PLW13 0.14229999 W

F2 - Processing parameters
SI 65536
SF 100.6127324 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40