Stereoselective Synthesis of 3-Alkylideneoxindoles via Palladium-Catalyzed Domino Reactions

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General. ^1H NMR and ^{13}C NMR spectra were registered on 500 MHz NMR using TMS as an internal standard. (s = singlet, d = doublet, dd = double doublet, ddd = doublet of double doublets, t = triplet, q = quartet, m = multiplet, br = broad). For column chromatography, Silica gel 60 (spherical, 63-210 μm) was employed and preparative thin-layer chromatography (PTLC) was carried out using Silica gel 60F₂₅₄. All reactions were carried out under a positive pressure of argon or nitrogen.

***N*-(2-Iodophenyl)-3-phenylpropiolamide (1k)**

^1H NMR (500 MHz, CDCl_3) δ 7.87 (d, J = 7.9 Hz, 1H), 7.66–7.64 (m, 2H), 7.51–7.49 (m, 1H), 7.43–7.39 (m, 3H), 7.20 (d, J = 7.9 Hz, 1H), 7.02 (t, J = 7.9 Hz, 1H); ^{13}C NMR (126 MHz, CDCl_3) δ 150.9, 138.9, 137.8, 132.7, 130.4, 129.3, 128.5, 126.0, 122.4, 119.7, 89.6, 86.4, 83.2; IR (CHCl_3) ν 3008, 1633 cm^{-1} ; MS (FAB) m/z 348 (MH^+); HRMS (FAB) calcd for $\text{C}_{15}\text{H}_{11}\text{INO}$ (MH^+) 347.9887, found 347.9885.

***N*-(2-Iodophenyl)-3-(thiophen-3-yl)propiolamide (1l)**

^1H NMR (500 MHz, CDCl_3) δ 8.23 (d, J = 8.0 Hz, 1H), 7.81–7.77 (m, 3H), 7.38–7.35 (m, 2H), 6.88 (t, J = 7.0 Hz, 1H); ^{13}C NMR (126 MHz, CDCl_3) δ 151.0, 139.0, 137.8, 133.2, 130.1, 129.4, 126.6, 126.2, 119.0, 89.5, 83.1, 82.0; IR (CHCl_3) ν 2960, 1631 cm^{-1} ; Anal. Calcd for $\text{C}_{13}\text{H}_8\text{INOS}$: C, 44.21; H, 2.28; I, 35.93; N, 3.97; O, 4.53. Found: C, 44.09; H, 2.51; I, 35.71; N, 3.82; O, 4.35.

***N*-(2-Iodophenyl)pent-2ynamide (1m)**

^1H NMR (500 MHz, CDCl_3) δ 8.21 (d, J = 8.5 Hz, 1H), 7.80 (d, J = 8.0 Hz, 1H), 7.65 (br, 1H), 7.34 (t, J = 8.0 Hz, 1H), 6.86 (m, 1H), 2.42 (d, J = 7.9 Hz, 2H), 1.26 (t, J = 7.9 Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 151.1, 138.9, 137.9, 129.3, 126.3, 122.3, 90.5, 89.3, 75.2, 12.6, 12.4; IR (CHCl_3) ν 3010, 1635 cm^{-1} ; Anal. Calcd for $\text{C}_{11}\text{H}_{10}\text{INO}$: C, 44.17; H, 3.37; N, 4.68; O, 5.35. Found: C, 43.90; H, 3.21; N, 4.68; O, 5.23.

2-Iodophenyl 3-phenylpropiolate (1o)

^1H NMR (500 MHz, CDCl_3) δ 7.87 (d, J = 8.0 Hz, 1H), 7.65 (d, J = 8.6 Hz, 2H), 7.51–7.49 (m, 1H),

7.43–7.38 (m, 3H), 7.19 (d, $J = 8.0$ Hz, 1H), 7.02 (t, $J = 6.1$ Hz, 1H); ^{13}C NMR (126 MHz, CDCl_3) δ 151.5, 150.8, 139.8, 133.4, 131.2, 129.6, 128.7, 128.2, 123.0, 119.2, 90.1, 89.4, 80.2; IR (CHCl_3) ν 3001, 1632 cm^{-1} ; Anal. Calcd for $\text{C}_{15}\text{H}_9\text{IO}_2$: C, 51.90; H, 2.90; N, 4.03; I, 36.56. Found: C, 52.05; H, 3.09; N, 3.99; I, 36.32.

2-Iodophenyl hept-2-ynoate (1p)

^1H NMR (500 MHz, CDCl_3) δ 7.84 (d, $J = 8.0$ Hz, 1H), 7.37 (t, $J = 7.9$ Hz, 1H), 7.12 (d, $J = 8.0$ Hz, 1H), 6.99 (t, $J = 7.9$ Hz, 1H), 2.41 (t, $J = 7.0$ Hz, 2H), 1.64–1.56 (m, 2H), 1.48–1.44 (m, 2H), 0.94 (t, $J = 7.3$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 151.1, 150.6, 139.6, 129.5, 128.0, 122.9, 93.1, 90.1, 72.5, 29.3, 21.8, 18.4, 13.4; IR (CHCl_3) ν 3010, 1636 cm^{-1} ; MS (FAB) m/z 329 (MH^+); HRMS (FAB) calcd for $\text{C}_{13}\text{H}_{14}\text{IO}_2$ (MH^+) 329.0044, found 329.0046.

1-Benzyl-3-(diphenylmethylene)indolin-2-one (4a)

^1H NMR (500 MHz, CDCl_3) δ 7.67 (m, 1H), 7.43–7.24 (m, 14H), 7.04 (t, $J = 7.6$ Hz, 1H), 6.67–6.62 (m, 2H), 6.41 (d, $J = 7.7$ Hz, 1H), 4.92 (s, 2H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.4, 148.4, 143.5, 137.5, 135.8, 130.5, 129.6, 129.1, 128.9, 128.2, 127.8, 127.4, 125.2, 122.2, 108.9, 43.5; IR (CHCl_3) ν 1611 cm^{-1} ; MS (FAB) m/z 388 (MH^+); HRMS (FAB) calcd for $\text{C}_{28}\text{H}_{22}\text{NO}$ (MH^+) 388.1701, found 388.1703.

(E)-1-Benzyl-3-(1-phenylpentylidene)indolin-2-one (4f)

^1H NMR (500 MHz, CDCl_3) δ 7.50–7.45 (m, 3H), 7.32–7.23 (m, 7H), 6.99 (t, $J = 7.7$ Hz, 1H), 6.64 (m, $J = 8.0$ Hz, 1H), 6.57 (m, 1H), 6.02 (d, $J = 7.9$ Hz, 1H), 4.99 (s, 2H), 3.35–3.33 (m, 2H), 1.49–1.42 (m, 4H), 0.90 (t, $J = 5.2$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.9, 160.3, 141.5, 136.5, 129.1, 128.7, 128.3, 128.0, 127.4, 126.9, 123.1, 122.9, 121.4, 108.4, 43.2, 34.9, 29.8, 22.9, 13.9; IR (CHCl_3) ν 1611 cm^{-1} ; MS (FAB) m/z 368 (MH^+); HRMS (FAB) calcd for $\text{C}_{26}\text{H}_{26}\text{NO}$ (MH^+) 368.2014, found 368.2017.

(Z)-1-Benzyl-3-(1-phenylpentylidene)indolin-2-one (4f)

^1H NMR (500 MHz, CDCl_3) δ 7.60 (d, $J = 7.6$ Hz, 1H), 7.44–7.38 (m, 3H), 7.32–7.16 (m, 8H), 7.04

(t, $J = 7.6$ Hz, 1H), 6.70 (d, $J = 7.6$ Hz, 1H), 4.85 (s, 2H), 2.95 (t, $J = 8.5$ Hz, 2H), 1.63–1.58 (m, 2H), 1.50–1.45 (m, 2H), 0.94 (t, $J = 7.3$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 166.5, 158.8, 142.6, 141.7, 136.4, 128.6, 128.4, 128.1, 128.0, 127.5, 127.3, 123.5, 123.0, 121.8, 108.9, 43.2, 37.9, 28.9, 23.0, 13.8; IR (CHCl_3) ν 3081, 3061, 3021, 3001, 2924, 2850, 1601, 1581, 1501, 1451, 1431, 1381, 1361, 1341, 1321, 1301, 1281, 1261, 1241, 1221, 1201, 1181, 1161, 1141, 1121, 1101, 1081, 1061, 1041, 1021, 1001, 981, 961, 941, 921, 901, 881, 861, 841, 821, 801, 781, 761, 741, 721, 701, 681, 661, 641, 621, 601, 581, 561, 541, 521, 501, 481, 461, 441, 421, 401, 381, 361, 341, 321, 301, 281, 261, 241, 221, 201, 181, 161, 141, 121, 101, 81, 61, 41, 21, 1; MS (FAB) m/z 368 (MH^+); HRMS (FAB) calcd for $\text{C}_{26}\text{H}_{26}\text{NO}$ (MH^+) 368.2014, found 368.2016.

(Z)-1-Benzyl-3-(2-(benzyloxy)-1-phenylethylidene)indolin-2-one (4g)

^1H NMR (500 MHz, CDCl_3) δ 7.50–7.47 (m, 3H), 7.36–7.23 (m, 12H), 7.04 (t, $J = 7.6$ Hz, 1H), 6.66–6.59 (m, 2H), 6.15 (d, $J = 7.6$ Hz, 1H), 5.34 (s, 2H), 4.97 (s, 2H), 4.56 (s, 2H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.6, 154.1, 142.3, 138.6, 138.4, 136.2, 128.9, 128.8, 128.5, 128.2, 127.7, 127.6, 127.5, 127.3, 125.0, 123.6, 122.3, 121.7, 108.6, 72.8, 68.5, 43.4; IR (CHCl_3) ν 2961, 1650 cm^{-1} ; MS (FAB) m/z 432 (MH^+); HRMS (FAB) calcd for $\text{C}_{30}\text{H}_{26}\text{NO}_2$ (MH^+) 432.1963, found 432.1965.

(Z)-1-Benzyl-3-(2-(benzyloxy)-1-(4-methoxyphenyl)ethylidene)indolin-2-one (4h)

^1H NMR (500 MHz, CDCl_3) δ 7.32–7.16 (m, 12H), 7.04–6.99 (m, 3H), 6.66–6.63 (m, 2H), 6.36 (d, $J = 7.7$ Hz, 1H), 5.32 (s, 2H), 4.97 (s, 2H), 4.55 (s, 2H), 3.89 (s, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.6, 160.0, 154.2, 142.2, 130.7, 129.4, 128.8, 128.2, 127.8, 127.5, 127.4, 127.3, 123.5, 121.6, 114.3, 108.6, 72.7, 68.5, 55.3, 43.4; IR (CHCl_3) ν 2960, 1648 cm^{-1} ; MS (FAB) m/z 462 (MH^+); HRMS (FAB) calcd for $\text{C}_{31}\text{H}_{28}\text{NO}_3$ (MH^+) 462.2069, found 462.2065.

(E)-1-Benzyl-5-methyl-3-(1-phenylpentylidene)-indolin-2-one (4i)

^1H NMR (500 MHz, CDCl_3) δ 7.50–7.45 (m, 3H), 7.32–7.29 (m, 4H), 7.27–7.22 (m, 3H), 6.80 (d, $J = 8.0$ Hz, 1H), 6.51 (d, $J = 8.0$ Hz, 1H), 5.77 (s, 1H), 4.97 (s, 2H), 3.36 (t, $J = 7.3$ Hz, 2H), 1.94 (s, 3H), 1.52–1.41 (m, 4H), 0.91 (t, $J = 6.7$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.8, 159.9, 141.8, 139.3, 136.6, 130.5, 129.0, 128.7, 128.3, 128.2, 127.4, 127.3, 127.0, 123.9, 123.3, 122.9, 108.1, 43.2, 34.8, 29.8, 22.9, 21.0, 13.9; IR (CHCl_3) ν 3009, 2686 cm^{-1} ; MS (FAB) m/z 382 (MH^+); HRMS (FAB) calcd for $\text{C}_{27}\text{H}_{28}\text{NO}$ (MH^+) 382.2170, found 382.2152.

(E)-1-Benzyl-2-oxo-3-(1-phenylpentylidene)-indoline-5-carbonitrile (4j)

^1H NMR (500 MHz, CDCl_3) δ 7.55–7.52 (m, 3H), 7.36–7.23 (m, 8H), 6.70 (d, $J = 8.0$ Hz, 1H), 6.22

(s, 1H), 5.01 (s, 2H), 3.37 (t, $J = 7.3$ Hz, 2H), 1.53–1.42 (m, 4H), 0.91 (t, $J = 7.0$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.4, 164.4, 144.6, 140.6, 135.4, 132.6, 129.5, 129.2, 128.9, 127.9, 127.2, 126.4, 126.2, 123.5, 121.3, 119.4, 108.8, 104.5, 43.4, 35.2, 29.7, 22.9, 13.8; IR (CHCl_3) ν_{max} 1611 cm^{-1} ; MS (FAB) m/z 393 (MH^+); HRMS (FAB) calcd for $\text{C}_{27}\text{H}_{25}\text{N}_2\text{O}$ (MH^+) 392.1889, found 392.1890.

(*E*)-1-Benzyl-5-(trifluoromethyl)-3-(1-phenylpentylidene)-indolin-2-one (4k)

^1H NMR (500 MHz, CDCl_3) δ 7.53–7.49 (m, 3H), 7.36–7.25 (m, 8H), 6.69 (d, $J = 8.0$ Hz, 1H), 6.17 (s, 1H), 5.02 (s, 2H), 3.38 (t, $J = 7.9$ Hz, 2H), 1.55–1.43 (m, 4H), 0.92 (t, $J = 7.3$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 163.1, 155.3, 140.9, 138.9, 135.8, 131.9, 129.3, 128.9, 128.8, 127.7, 127.3, 126.6, 125.2, 123.0, 120.0, 117.4, 109.1, 108.1, 43.4, 34.9, 29.7, 22.9, 13.9; IR (CHCl_3) ν 2931, 1697 cm^{-1} ; MS (FAB) m/z 436 (MH^+); HRMS (FAB) calcd for $\text{C}_{27}\text{H}_{25}\text{F}_3\text{NO}$ (MH^+) 436.1888, found 436.1885.

(*E*)-((4-Methoxyphenyl)(phenyl)methylene)indolin-2-one (5b)

^1H NMR (500 MHz, CDCl_3) δ 7.87 (br, 1H), 7.38–7.25 (m, 7H), 7.10 (m, 1H), 6.94 (d, $J = 8.9$ Hz, 2H), 6.76–6.62 (m, 3H), 3.87 (s, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 168.5, 160.9, 155.4, 140.4, 133.6, 131.8, 130.7, 129.4, 128.6, 127.8, 124.6, 123.1, 121.3, 114.3, 109.4, 55.4; IR (CHCl_3) ν 2961, 1643 cm^{-1} ; MS (FAB) m/z 328 (MH^+); HRMS (FAB) calcd for $\text{C}_{22}\text{H}_{18}\text{NO}_2$ (MH^+) 328.1337, found 328.1335.

(*Z*)-(Phenyl(thiophen-3-yl)methylene)indolin-2-one (5d)

^1H NMR (500 MHz, CDCl_3) δ 8.47 (br, 1H), 7.46–7.24 (m, 6H), 7.09–7.05 (m, 3H), 6.75–6.70 (m, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.7, 148.1, 141.9, 140.6, 139.8, 130.4, 129.4, 129.0, 128.9, 128.8, 127.8, 127.6, 126.2, 124.1, 122.9, 121.3, 109.7; IR (CHCl_3) ν 2980, 1640 cm^{-1} ; MS (FAB) m/z 304 (MH^+); HRMS (FAB) calcd for $\text{C}_{19}\text{H}_{14}\text{NOS}$ (MH^+) 304.0796, found 304.0798.

(*E*)-3-(1-Phenylpropylidene)indolin-2-one (5e)

^1H NMR (500 MHz, CDCl_3) δ 8.70 (br, 1H), 7.50–7.43 (m, 3H), 7.26 (d, $J = 7.6$ Hz, 2H), 7.05 (br,

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1H), 6.80 (br, 1H), 6.58 (t, $J = 7.6$ Hz, 1H), 6.00 (d, $J = 7.6$ Hz, 1H), 3.35–3.33 (m, 2H), 1.11 (t, $J = 7.6$ Hz, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 169.8, 161.4, 141.3, 139.8, 129.1, 128.3, 128.1, 126.9, 123.6, 123.3, 123.2, 121.3, 109.3, 28.0, 11.9; IR (CHCl_3) ν 3001, 1640 cm^{-1} ; MS (FAB) m/z 250 (MH^+); HRMS (FAB) calcd for $\text{C}_{17}\text{H}_{16}\text{NO}$ (MH^+) 250.1232, found 250.1235.

(*E*)-3-(Phenyl(*p*-tolyl)methylene)benzofuran-2(3*H*)-one (5g)

^1H NMR (500 MHz, CDCl_3) δ 7.65 (d, $J = 6.7$ Hz, 1H), 7.43–7.19 (m, 8H), 7.06–7.04 (m, 2H), 6.84–6.81 (m, 1H), 6.64 (d, $J = 7.9$ Hz, 1H), 2.43 (s, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.1, 159.8, 153.4, 140.5, 139.7, 139.2, 133.4, 131.2, 130.4, 130.0, 129.7, 129.6, 129.1, 128.7, 128.2, 123.1, 122.8, 110.6, 21.5; IR (CHCl_3) ν 2987, 1645 cm^{-1} ; MS (FAB) m/z 313 (MH^+); HRMS (FAB) calcd for $\text{C}_{22}\text{H}_{17}\text{O}_2$ (MH^+) 313.1228, found 313.1224.

(*E*)-3-((4-Methoxyphenyl)(phenyl)methylene)benzofuran-2(3*H*)-one (5h)

^1H NMR (500 MHz, CDCl_3) δ 7.47–7.20 (m, 8H), 7.07 (d, $J = 7.9$ Hz, 1H), 6.96 (d, $J = 8.9$ Hz, 2H), 6.89–6.85 (m, 1H), 6.78–6.76 (m, 1H), 3.89 (s, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 161.4, 158.9, 153.4, 139.4, 132.5, 131.8, 130.7, 130.1, 129.7, 129.4, 129.0, 128.0, 124.9, 123.0, 122.4, 114.3, 110.6, 55.4; IR (CHCl_3) ν 3001, 1608 cm^{-1} ; MS (FAB) m/z 329 (MH^+); HRMS (FAB) calcd for $\text{C}_{22}\text{H}_{17}\text{O}_3$ (MH^+) 329.1178, found 329.1179.

(*E*)-3-((4-(Trifluoromethyl)phenyl)(phenyl)methylene)benzofuran-2(3*H*)-one (5i)

^1H NMR (500 MHz, CDCl_3) δ 7.63 (d, $J = 7.9$ Hz, 2H), 7.51–7.38 (m, 5H), 7.32–7.26 (m, 4H), 7.08 (d, $J = 8.0$ Hz, 1H), 6.86–6.84 (m, 1H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.4, 154.9, 142.6, 140.6, 132.7, 130.4, 129.7, 129.3, 129.1, 128.3, 123.4, 114.9, 110.9; IR (CHCl_3) ν 2977, 1610 cm^{-1} ; MS (FAB) m/z 367 (MH^+); HRMS (FAB) calcd for $\text{C}_{22}\text{H}_{14}\text{F}_3\text{O}_2$ (MH^+) 367.0946, found 367.0948.

(*E*)-3-(1-Phenylpentylidene)benzofuran-2(3*H*)-one (5j)

^1H NMR (500 MHz, CDCl_3) δ 7.52–7.44 (m, 3H), 7.27–7.26 (m, 2H), 7.16 (t, $J = 8.0$ Hz, 1H), 7.02

(d, $J = 7.9$ Hz, 1H), 6.73 (t, $J = 7.9$ Hz, 1H), 6.11 (d, $J = 7.9$ Hz, 1H), 3.23 (t, $J = 7.0$ Hz, 2H), 1.47-1.41 (m, 4H), 0.92 (m, 3H); ^{13}C NMR (126 MHz, CDCl_3) δ 167.2, 163.6, 152.8, 140.6, 129.3, 128.9, 126.6, 123.7, 123.3, 122.8, 119.0, 110.4, 35.1, 29.7, 22.7, 13.8; IR (CHCl_3) ν 2980, 1620 cm^{-1} ; MS (FAB) m/z 279 (MH^+); HRMS (FAB) calcd for $\text{C}_{19}\text{H}_{19}\text{O}_2$ (MH^+) 279.1384, found 279.1385.

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2	1.25	627.2	16	7.42	3708.0	2	7.11	7.23	1.80108e+8
3	1.55	776.7	17	7.43	3715.9	3	7.31	7.44	3.129
4	7.01	3507.2	18	7.48	3741.9	4	7.45	7.57	1.042
5	7.02	3508.7	19	7.49	3743.1	5	7.57	7.71	2.022
6	7.03	3514.3	20	7.50	3750.7	6	7.77	7.94	1.69878e+8
7	7.04	3522.4	21	7.51	3757.1				
8	7.05	3524.0	22	7.52	3758.4				
9	7.19	3594.5	23	7.64	3822.4				
10	7.20	3602.4	24	7.66	3830.7				
11	7.21	3603.9	25	7.86	3932.3				
12	7.26	3625.6	26	7.87	3933.8				
13	7.39	3684.0	27	7.88	3940.2				
14	7.39	3685.5

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3	31.43	3948.9	0.2461	13	128.54	16151.2	0.9441
4	76.74	9643.0	0.3398	14	129.27	16242.2	0.2245
5	77.00	9675.0	0.3477	15	130.43	16389.1	0.5811
6	77.26	9707.1	0.3473	16	132.89	16726.5	1.0000
7	83.15	10447.8	0.0751	17	137.76	17309.9	0.1157
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7 Oct 2004
nos

Acquisition Time (sec)	3.2788	File Name	C:\Documents and Settings\Owner\My Documents\5\Chem\m\m\10700-1745N\10.7.h.mr1d
Frequency (MHz)	500.00	Points Count	32768
Sweep Width (Hz)	10000.00	Solvent	CHLOROFORM-D
Comment	nos		
Nucleus	¹ H		
Temperature (degree C)	0.000		
		Number of Transients	4
		Original Points Count	32768

No.	ppm	Hz	Height	No.	ppm	Hz	Height
1	0.00	0.0	0.5864	12	7.26	3631.4	1.0000
2	1.24	620.4	0.1052	13	7.31	3656.7	0.0552
3	1.26	627.8	0.2433	14	7.35	3675.3	0.6261
4	1.27	634.8	0.1124	15	7.37	3682.7	0.6180
5	1.65	823.7	0.2072	16	7.38	3690.6	0.3395
6	2.04	1020.8	0.3887	17	7.77	3882.6	0.4191
7	4.11	2056.3	0.0846	18	7.80	3900.0	0.5605
8	4.13	2063.4	0.0870	19	7.81	3907.3	0.5729
9	6.87	3435.2	0.1767	20	8.23	4163.3	0.2614
10	8.88	3442.2	0.3167	21	8.25	4174.3	0.2719
11	8.90	3449.2	0.2213

11

C:\Documents and Settings\Owner\My Documents\5\Chem\m\m\10700-1745N\10.7.h.mr1d

7 Oct 2004
noe

Acquisition Time (sec)	0.9957	Comment	noe
Frequency (MHz)	125.85	Nucleus	¹³ C
Sweep Width (Hz)	33498.30	Temperature (Degree C)	0.000
Date	Thu Oct 7 12:21:31 2004	File Name	C:\Documents and Settings\Owner\My Documents\NMR\m\lq\700-1745c\10.7.s.mmdata
Number of Transients	125	Points Count	32768
Original Points Count	32768	Solvent	CHLOROFORM-D

11

C:\Documents and Settings\Owner\My Documents\NMR\m\lq\700-1745c\10.7.s.mmdata

16 Apr 2004
nos

Acquisition Time (sec)	3.2788	Comment	nos	Date	Thu Apr 15 23:05:02 2004	File Name	C:\Documents and Settings\Owner\My Documents\1\NMR\1501-1572\1.mrld
Frequency (MHz)	500.00	Nucleus	¹ H	Number of Transients	4	Points Count	32768
Sweep Width (Hz)	10000.00	Temperature (degrees C)	0.000			Solvent	CHLOROFORM-D

No.	(ppm)	Height	(Hz)	No.	(ppm)	Height	(Hz)	No.	(ppm)	Value	Absolute Value	
1	0.00	0.0	1.0000	12	6.88	3432.1	0.1449	1	1.16	1.36	3.039	5.02953e+8
2	0.00	2.1	0.6856	13	7.26	3632.0	0.5941	2	2.33	2.48	1.965	3.25184e+8
3	1.24	622.3	0.2480	14	7.27	3634.1	0.4846	3	6.75	6.96	0.939	1.55387e+8
4	1.26	629.6	0.4478	15	7.33	3667.1	0.1317	4	7.40	7.42	1.062	1.75817e+8
5	1.27	636.6	0.2616	16	7.35	3674.7	0.2410	5	7.59	7.73	0.953	1.42866e+8
6	1.56	778.2	0.7716	17	7.37	3682.7	0.1388	6	7.73	7.83	1.008	1.68826e+8
7	1.56	780.4	0.5623	18	7.66	3925.8	0.0919	7	8.16	8.28	0.939	1.55344e+8
8	2.40	1198.1	0.2400	19	7.78	3892.0	0.1663					
9	2.41	1207.0	0.2329	20	7.80	3900.0	0.1681					
10	2.43	1214.3	0.0974	21	8.20	4100.5	0.1277					
11	6.85	3424.8	0.0748	22	8.22	4108.0	0.1275

1m

16 Apr 2004
noe

Acquisition Time (sec)	0.967	Comment	noe
Frequency (MHz)	125.65	Nucleus	¹³ C
Sweep Width (Hz)	33898.30	Temperature (degree C)	0.000
Date	Fri Apr 16 10:10:33 2004	Number of Transients	82
File Name	C:\Documents and Settings\Owner\My Documents\16 Apr 16 10:10:33 2004	Original Points Count	32768
Points Count	32768	Solvent	CHLOROFORM-D

28 Aug 2004
noe

Acquisition Time (sec)	3.2768	noe	Date	Sat Aug 28 10:19:30 2004	File Name	C:\Documents and Settings\Owner\My Documents\1-N-01mmr.mq\700-1730N8.28h.nm1d
Frequency (MHz)	500.00	1H	Number of Transients	8	Points Count	32768
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	Height	Absolute Value
1	-0.01	-3.4	0.0546	17	7.40	3701.0	0.3314
2	-0.00	-0.0	1.0000	18	7.42	3708.0	0.4759
3	1.55	774.6	0.0538	19	7.43	3715.8	0.2742
4	2.01	3506.9	0.1189	20	7.48	3743.1	0.1678
5	7.02	3506.4	0.1114	21	7.50	3748.6	0.0918
6	7.03	3514.5	0.1979	22	7.50	3750.7	0.1989
7	7.03	3516.0	0.1755	23	7.51	3756.8	0.0545
8	7.04	3522.1	0.1286	24	7.52	3758.0	0.0782
9	7.05	3523.7	0.1185	25	7.64	3822.4	0.3811
10	7.19	3594.5	0.2362	26	7.65	3824.0	0.3943
11	7.19	3596.0	0.2022	27	7.66	3831.0	0.3312
12	7.20	3602.4	0.2689	28	7.86	3932.3	0.2381
13	7.21	3603.9	0.2358	29	7.87	3933.8	0.2114
14	7.26	3629.6	0.5688	30	7.88	3940.2	0.2287
15	7.39	3693.7	0.1578	31	7.88	3941.8	0.1954
16	7.39	3695.2	0.1510

C:\Documents and Settings\Owner\My Documents\1-N-01mmr.mq\700-1730N8.28h.nm1d

28 Aug 2004
nps

Acquisition Time (sec)	0.987	Comment	nps	Date	Sat Aug 28 10:17:28 2004	File Name	C:\Documents and Settings\Owner\My Documents\180mm\m1\q170b\1730c18.28c.nmdata
Frequency (MHz)	125.55	Nucleus	¹³ C	Number of Transients	240	Points Count	32768
Sweep Width (Hz)	33088.30	Temperature (degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height
1	76.75	9844.0	0.9892
2	77.00	9875.1	0.9853
3	77.26	9707.1	1.0000
4	80.16	10072.3	0.0580
5	89.45	11239.3	0.0692
6	90.13	11325.1	0.0535
7	119.20	14977.0	0.0552
8	123.04	15460.1	0.1558
9	128.19	16106.7	0.1293
10	128.73	16175.0	0.3260
11	129.63	16287.7	0.1734
12	131.23	16488.4	0.1738
13	133.40	16761.6	0.3546
14	139.76	17561.2	0.2128
15	150.75	18942.3	0.0565
16	151.50	19035.4	0.0400

C:\Documents and Settings\Owner\My Documents\180mm\m1\q170b\1730c18.28c.nmdata

26 Sep 2003
noe

Acquisition Time (sec)	3.2768	noe	File Name	C:\Documents and Settings\Owner\My Documents\NMR\19301-40038719.26.mfid
Frequency (MHz)	500.00	1H	Solvent	CHLOROFORM-D
Sweep Width (Hz)	10000.00	Temperature (Degree C)	327.68	Points Count
			327.68	Original Points Count
			8	Number of Transients
			Fri Sep 26 19:40:59 2003	Date

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	Value	Absolute Value
1	0.00	0.0	0.0574	20	6.98	3490.4	0.1180	1	0.89	1.00	2.860
2	0.83	464.2	0.4920	21	6.99	3496.8	0.2120	2	1.38	1.53	1.979
3	0.94	471.5	1.0000	22	7.01	3504.1	0.1283	3	1.53	1.67	2.000
4	0.96	478.8	0.5010	23	7.01	3505.7	0.1207	4	2.35	2.48	1.889
5	1.44	719.9	0.1565	24	7.12	3560.9	0.2218	5	6.94	7.03	0.804
6	1.45	727.3	0.2723	25	7.12	3562.4	0.2077	6	7.09	7.17	0.916
7	1.47	734.6	0.2730	26	7.14	3569.1	0.2471	7	7.31	7.43	0.956
8	1.49	742.2	0.1632	27	7.14	3570.4	0.2252	8	7.76	7.89	0.896
9	1.56	781.3	0.0905	28	7.35	3674.7	0.1388				
10	1.58	791.0	0.1040	29	7.35	3676.3	0.1377				
11	1.60	798.4	0.2577	30	7.37	3683.0	0.2127				
12	1.61	805.7	0.3011	31	7.37	3687.2	0.0901				
13	1.62	810.9	0.1407	32	7.38	3690.3	0.1152				
14	1.63	813.0	0.2013	33	7.38	3691.8	0.1069				
15	1.64	820.3	0.0598	34	7.83	3913.7	0.2312				
16	2.40	1201.5	0.3422	35	7.83	3915.2	0.2214				
17	2.42	1206.5	0.6130	36	7.84	3921.6	0.2210				
18	2.43	1215.9	0.2921	37	7.85	3923.2	0.2036				
19	6.98	3488.9	0.1186

28 Sep 2003
nos

Acquisition Time (sec)	0.967	Comment	nos	Date	Fri Sep 26 14:55:31 2003	File Name	C:\Documents and Settings\Owner\My Documents\N05.m\gdb1-40039759.26c.mfcd
Frequency (MHz)	125.85	Nucleus	¹³ C	Number of Transients	153	Points Count	32768
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height
1	13.35	1675.2	0.8512
2	18.44	2317.5	0.5935
3	21.81	2740.8	0.8181
4	29.27	3677.9	1.0000
5	72.55	9115.4	0.2488
6	76.74	9643.0	0.3550
7	77.00	9675.1	0.3593
8	77.26	9707.1	0.3588
9	90.07	11316.8	0.1814
10	93.14	11702.7	0.3560
11	122.83	15446.7	0.6935
12	128.00	16082.9	0.5786
13	129.50	16271.2	0.8650
14	139.57	17557.4	0.6900
15	150.63	18926.8	0.3143
16	151.07	18981.8	0.2422

1l

19 Apr 2005
noe

Acquisition Time (sec)	3.2768	Comment	noe
Frequency (MHz)	500.00	Nucleus	¹ H
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000
Date	Tue Apr 19 20:03:16 2005	Number of Transients	4
File Name	C:\Documents and Settings\Owner\My Documents\NMR\m1a\700-1705\hph-h.nm1d	Points Count	32768
Solvent	CHLOROFORM-D

4a

No.	ppm	Hz	Height	No.	ppm	Hz	Height
1	-0.00	-0.0	0.0507	14	7.30	3648.8	0.2639
2	0.00	1.8	0.0573	15	7.31	3656.7	0.4096
3	4.92	2460.4	0.3934	16	7.33	3667.1	0.5327
4	6.41	3203.2	0.1147	17	7.35	3672.9	0.3148
5	6.42	3210.9	0.1139	18	7.35	3674.7	0.3169
6	6.63	3312.8	0.0925	19	7.36	3688.8	0.9902
7	6.64	3320.4	0.1305	20	7.38	3690.0	1.0000
8	6.66	3326.3	0.1382	21	7.43	3714.1	0.3222
9	6.68	3332.7	0.1146	22	7.44	3719.3	0.4374
10	7.03	3514.5	0.0603	23	7.59	3794.4	0.0983
11	7.04	3522.1	0.1172	24	7.60	3801.7	0.0769
12	7.25	3622.5	0.2415	25	7.68	3839.2	0.0513
13	7.28	3641.2	0.1630				

C:\Documents and Settings\Owner\My Documents\NMR\m1a\700-1705\hph-h.nm1d

19 Apr 2005
noe

Acquisition Time (sec)	0.9857	noe	Comment	
Frequency (MHz)	125.65	¹³ C	Nucleus	
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000	
File Name	C:\Documents and Settings\Owner\My Documents*_N\0nmr\m\q800-Vinyl-ethyl-c-mndata			
Polits Count	32768	Solvent	CHLOROFORM-D	
Original Points Count	32768			
Date	Tue Apr 19 20:27:27 2005			
Number of Transients	256

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	43.49	5465.0	0.0281	11	128.91	16197.1	0.1085
2	76.74	9642.4	0.5942	12	128.12	16224.0	0.0554
3	77.00	9674.4	1.0000	13	128.64	16288.2	0.1116
4	77.25	9706.5	0.9732	14	130.54	16402.0	0.0840
5	108.97	13892.5	0.0407	15	135.77	17059.8	0.0422
6	122.21	15355.1	0.0467	16	137.46	17272.0	0.0463
7	125.19	15730.8	0.0461	17	143.51	18322.4	0.0283
8	127.37	16003.7	0.1137	18	148.48	18656.2	0.0513
9	127.79	16058.4	0.0896	19	167.37	21030.4	0.0251
10	128.17	16104.0	0.1050

4a

C:\Documents and Settings\Owner\My Documents*_N\0nmr\m\q800-Vinyl-ethyl-c-mndata

19 Apr 2005
noc

C:\Documents and Settings\Owner\My Documents\NMR\700\704\1b2.nm1d
CHLOROFORM-D

File Name
32788

Date
Wed Jul 27 18:10:30 2004

Acquisition Time (sec) 3.2768
Frequency (MHz) 500.00
Sweep Width (Hz) 10000.00

Comment
Nucleus
Temperature (degrees C) 0.000

Original Points Count
32788

Points Count
32788

No.	Chemical Shift (ppm)	Height	No.	Chemical Shift (ppm)	Height	No.	Chemical Shift (ppm)	Height	No.	Chemical Shift (ppm)	Height
1	0.00	4.0	0.1506	21	3.34	1671.2	0.2794	41	7.27	3637.2	0.4784
2	0.00	2.1	0.2397	22	3.35	1677.3	0.3243	42	7.30	3647.9	0.2118
3	0.00	0.0	0.4941	23	3.37	1684.6	0.1903	43	7.31	3655.6	0.6386
4	0.85	446.5	0.4276	24	3.37	1686.5	0.1863	44	7.32	3660.7	1.0000
5	0.90	451.4	0.6424	25	4.99	2496.1	0.8650	45	7.33	3662.5	0.9109
6	0.91	453.5	0.7608	26	6.01	3005.2	0.2288	46	7.43	3716.8	0.0879
7	0.92	458.7	0.3418	27	6.03	3013.1	0.2275	47	7.44	3718.4	0.0839
8	0.92	460.8	0.4075	28	6.56	3278.3	0.1531	48	7.45	3724.2	0.2190
9	1.25	626.5	0.0670	29	6.57	3285.9	0.2600	49	7.45	3727.2	0.2047
10	1.42	707.7	0.1258	30	6.59	3290.6	0.1287	50	7.46	3729.7	0.2905
11	1.43	714.7	0.2185	31	6.63	3316.1	0.2259	51	7.46	3731.2	0.3458
12	1.45	722.7	0.2582	32	6.65	3324.1	0.2345	52	7.47	3733.9	0.3546
13	1.46	728.7	0.2186	33	6.66	3360.7	0.1480	53	7.47	3735.5	0.4059
14	1.49	742.5	0.2166	34	7.00	3496.6	0.2367	54	7.48	3741.3	0.3797
15	1.49	745.0	0.2118	35	7.01	3506.3	0.1189	55	7.49	3743.4	0.3761
16	1.50	747.7	0.2219	36	7.23	3615.5	0.1113	56	7.50	3748.3	0.1259
17	1.50	749.2	0.2169	37	7.23	3617.4	0.1354	57	7.50	3750.1	0.1361
18	1.51	754.4	0.1409	38	7.25	3626.2	0.0984	58	7.50	3752.3	0.0598
19	1.51	757.2	0.1213	39	7.26	3628.7	0.8411				
20	1.56	781.6	0.4782	40	7.27	3635.1	0.4240				

19 Apr 2005
noe

Acquisition Time (sec)	0.9687	Comment	noe
Frequency (MHz)	125.55	Nucleus	¹³ C
Sweep Width (Hz)	33898.30	Temperature (degree C)	0.000
Date	Wed Jul 21 20:48:43 2004	File Name	C:\Documents and Settings\Owner\My Documents\N\0\mm\m\lq\700-704f1\cbu2c\rmdata
Number of Transients	252	Points Count	32768
Original Points Count	32768	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	13.88	1743.6	0.1177	13	126.30	15944.7	0.2183
2	22.91	2878.6	0.1311	14	127.31	15956.4	0.2352
3	29.77	3740.4	0.1429	15	127.43	16011.9	0.1003
4	34.88	4352.8	0.0989	16	127.88	16081.3	0.0841
5	43.25	5433.9	0.0742	17	128.28	16115.4	0.1177
6	76.74	9642.4	1.0000	18	128.73	16174.4	0.2283
7	77.00	9674.4	0.9784	19	129.10	16220.9	0.2614
8	77.24	9705.5	0.9452	20	136.46	17146.8	0.0776
9	108.37	13617.0	0.0567	21	141.54	17784.1	0.0703
10	121.38	15251.6	0.0726	22	141.73	17808.9	0.0681
11	122.92	15445.0	0.0837	23	160.28	20138.7	0.0671
12	123.09	15466.3	0.0602	24	167.91	21097.7	0.0391

4(E)-f

C:\Documents and Settings\Owner\My Documents\N\0\mm\m\lq\700-704f1\cbu2c\rmdata

25 Apr 2005
noe

Acquisition Time (sec)	0.9687	noe	Date	Mon Apr 25 22:46:38 2005	File Name	C:\Documents and Settings\Owner\My Documents\NMR\mmlg900-95312c1f2c.mdata
Frequency (MHz)	125.65	13C	Number of Transients	69	Original Points Count	32788
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000		Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	13.83	1737.6	0.0978	13	127.31	15996.4	0.2797
2	23.03	2893.1	0.1140	14	127.48	16019.2	0.2052
3	28.95	3638.0	0.1061	15	127.95	16077.1	0.1134
4	37.95	4768.7	0.1022	16	128.11	16096.8	0.2050
5	43.22	5430.6	0.0810	17	128.39	16132.0	0.0983
6	76.74	9642.4	1.0000	18	128.60	16158.8	0.2189
7	77.00	9674.4	0.9785	19	136.38	17136.5	0.0574
8	77.24	9705.5	0.9660	20	141.68	17601.7	0.0510
9	106.87	13680.1	0.0768	21	142.56	17912.4	0.0413
10	121.84	15309.5	0.0918	22	158.81	19854.5	0.0468
11	123.00	15454.3	0.0413	23	166.50	20920.8	0.0461
12	123.45	15511.2	0.0989

4(Z)-f

C:\Documents and Settings\Owner\My Documents\NMR\mmlg900-95312c1f2c.mdata

20 Apr 2005
noe

Acquisition Time (sec)	3.2768	Date	Wed Apr 20 01:09:51 2005	File Name	C:\Documents and Settings\Owner\My Documents\1_N 60mm\m.Lq\700-QBPNPHOBPNH.nm1d
Frequency (MHz)	500.00	Number of Transients	4	Points Count	32768
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	7.30	7.30	0.5468	20	7.22	3610.0	0.1819
2	7.28	627.8	0.1087	21	7.23	3616.7	0.2542
3	7.25	773.0	0.2473	22	7.24	3620.4	0.4014
4	7.22	777.9	0.2885	23	7.26	3628.3	1.0000
5	7.20	777.9	0.2885	24	7.27	3634.8	0.2308
6	7.18	777.9	0.2885	25	7.30	3651.8	0.1478
7	7.16	777.9	0.2885	26	7.32	3659.8	0.6510
8	7.14	777.9	0.2885	27	7.32	3662.2	0.6164
9	7.12	777.9	0.2885	28	7.33	3665.3	0.9508
10	7.10	777.9	0.2885	29	7.35	3674.4	0.2858
11	7.08	777.9	0.2885	30	7.35	3676.0	0.3036
12	7.06	777.9	0.2885	31	7.36	3681.4	0.3163
13	7.04	777.9	0.2885	32	7.37	3683.6	0.2836
14	7.02	777.9	0.2885	33	7.47	3736.1	0.1432
15	7.00	777.9	0.2885	34	7.48	3741.3	0.5851
16	6.98	777.9	0.2885	35	7.50	3748.0	0.2831
17	6.96	777.9	0.2885	36	7.51	3754.1	0.0882
18	6.94	777.9	0.2885	37	7.51	3757.4	0.0533
19	6.92	777.9	0.2885

4g

C:\Documents and Settings\Owner\My Documents\1_N 60mm\m.Lq\700-QBPNPHOBPNH.nm1d

20 Apr 2005
noe

Acquisition Time (sec)	0.9657	File Name	C:\Documents and Settings\Owner\My Documents\NMR\m1\q700-OBPNH-COBNPH-C.mdata
Frequency (MHz)	125.65	Points Count	32768
Sweep Width (Hz)	33898.30	Solvent	CHLOROFORM-D
Date	Wed Apr 20 01:23:19 2005	Original Points Count	32768
Comment	noe		
Nucleus	¹³ C		
Temperature (degree C)	0.000

No.	ppm	Height	No.	ppm	Height
1	43.37	5448.4	14	127.56	16028.5
2	68.50	8606.8	15	127.67	16041.9
3	72.75	9141.7	16	128.23	18112.3
4	76.74	9642.4	17	128.52	16148.5
5	77.00	9674.4	18	128.79	16182.6
6	77.25	9706.5	19	128.92	16198.2
7	106.60	13646.0	20	136.17	17108.6
8	121.69	15290.9	21	136.34	17382.7
9	122.29	15385.4	22	136.64	17419.9
10	122.64	15535.0	23	142.33	17893.4
11	124.98	15704.7	24	154.13	19385.9
12	127.33	15993.5	25	167.57	21055.3
13	127.47	16016.1

4g

C:\Documents and Settings\Owner\My Documents\NMR\m1\q700-OBPNH-COBNPH-C.mdata

20 Apr 2005
noe

Acquisition Time (sec)	3.2768	Comment	noe	Date	Wed Apr 20 09:55:49 2005	File Name	C:\Documents and Settings\Owner\My Documents\NMR\Unl\q700-OBNOME\OBNOME.mrld
Frequency (MHz)	500.00	Nucleus	¹ H	Number of Transients	4	Points Count	32768
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000			Solvent	CHLOROFORM-D

No.	Chemical Shift (ppm)	Height	Area	Integration
1	7.382	3.57	3.478	2.5722e+8
2	7.447	4.83	2.141	1.5825e+8
3	7.489	5.06	2.001	1.4605e+8
4	7.519	5.43	2.038	1.4861e+8
5	7.629	6.48	1.000	7.2888e+7
6	7.652	6.75	2.233	1.6297e+8
7	7.698	7.08	3.031	2.2122e+8
8	7.712	7.19	2.247	1.6405e+8
9	7.720	7.28	5.374	3.9227e+8
10	7.726	7.36	6.308	4.6049e+8

No.	Chemical Shift (ppm)	Height	Area	Integration
11	6.31	3.03	3.03	2.2122e+8
12	5.31571	3.03	3.03	2.2122e+8
13	4.97613	3.03	3.03	2.2122e+8
14	3.89695	3.03	3.03	2.2122e+8
15	3.86989	3.03	3.03	2.2122e+8
16	0.07141	3.03	3.03	2.2122e+8

C:\Documents and Settings\Owner\My Documents\NMR\Unl\q700-OBNOME\OBNOME.mrld

20 Apr 2005
nuc

Acquisition Time (sec)	0.9857	Comment	nuc	Date	Wed Apr 20 01:07:09 2005	Nucleus	¹³ C	Number of Transients	212
File Name	C:\Documents and Settings\Owner\My Documents\NMR\NMR\A700-IOBNOME-C.mrdata	Settings\Owner\My Documents\NMR\NMR\A700-IOBNOME-C.mrdata							
Original Points Count	32768	Points Count	32768	Solvent	CHLOROFORM-D	Frequency (MHz)	125.65	Temperature (degree C)	0.000
						Sweep Width (Hz)	33898.30

No.	ppm	Height	No.	ppm	Height
1	43.35	5447.4	13	127.47	16077.1
2	55.32	6950.5	14	127.54	16025.4
3	68.51	8607.8	15	127.75	16052.3
4	72.87	9131.3	16	128.24	16113.3
5	76.74	9842.4	17	128.77	16179.5
6	77.00	9874.4	18	129.39	16258.2
7	77.25	9706.5	19	130.72	16424.7
8	108.57	13641.8	20	142.22	17870.0
9	114.31	14362.9	21	154.17	19371.1
10	121.84	15283.6	22	160.01	20105.8
11	123.50	15517.4	23	167.62	21061.5
12	127.33	15988.5

4h

C:\Documents and Settings\Owner\My Documents\NMR\NMR\A700-IOBNOME-C.mrdata

11 Nov 2004
noe

Acquisition Time (sec)	0.967	noe
Frequency (MHz)	125.05	13C
Sweep Width (Hz)	33888.30	
File Name	C:\Documents and Settings\Owner\My Documents\1-GEF101-150104-carbon104-carbon.nmdata	
Points Count	32768	
Original Points Count	32768	
Solvent	CHLOROFORM-D	

Date	Thu Nov 11 19:46:48 2004	
Number of Transients	128	
Temperature (degree C)	0.000

No.	ppm	Height	Area	Height	Area
1	13.88	1743.8	0.3737	15989.2	0.7923
2	21.00	2638.6	0.2889	12735	16001.6
3	22.91	2878.6	0.4209	12816	16103.0
4	29.76	3759.4	0.4667	12828	16119.5
5	34.76	4367.3	0.3659	12868	16169.2
6	43.22	5430.8	0.3160	12882	16186.8
7	76.74	8642.4	0.9615	12901	16209.5
8	77.00	8674.4	0.9954	13051	16398.9
9	77.25	9706.5	1.0000	13655	17157.2
10	108.08	13579.8	0.3478	13931	17503.7
11	122.91	15444.0	0.1923	141.81	17818.2
12	123.29	15491.6	0.1404	159.87	20088.0
13	123.91	15569.2	0.3323	167.95	21102.8
14	126.91	15946.8	0.8238

4i

C:\Documents and Settings\Owner\My Documents\1-GEF101-150104-carbon104-carbon.nmdata

22 Dec 2004

Acquisition Time (sec)	3.2768	Comment	noe
Frequency (MHz)	500.00	Nucleus	¹ H
Sweep Width (Hz)	10000.00	Temperature (degree C)	30.00
Date	Wed Dec 22 16:30:13 2004	Wied Dec 22 16:30:13 2004	
File Name	C:\Documents and Settings\Owner\My Documents\1-CEI101-150\119-fordata\119-fordata.mn\data	Points Count	32768
Solvent	CHLOROFORM-D	Original Points Count	32768

No.	(ppm)	Value	Absolute Value
1	0.87..0.96	3.495	2.42103e+3
2	1.40..1.50	4.360	3.03419e+3
3	3.33..3.41	2.000	1.38551e+3
4	5.00..5.04	1.898	1.31508e+3
5	6.21..6.24	0.880	8.08570e+2
6	6.69..6.72	0.857	5.93499e+2
7	7.23..7.37	8.536	5.91344e+3
8	7.49..7.59	3.127	2.16619e+3

No.	(ppm)	Hz	Height	No.	(ppm)	Hz	Height
1	-0.00	-0.2	0.4168	18	1.50	751.8	0.2262
2	0.02	9.9	0.0560	19	1.51	756.0	0.1569
3	0.07	37.3	0.0600	20	1.52	759.7	0.1519
4	0.90	450.2	0.4168	21	1.53	765.5	0.0981
5	0.91	457.3	0.9836	22	2.05	1023.8	0.0921
6	0.92	460.9	0.2444	23	3.35	1974.9	0.2745
7	0.93	464.3	0.5727	24	3.37	1983.2	0.3379
8	0.95	474.3	0.0691	25	3.38	1990.5	0.2731
9	1.26	629.4	0.0641	26	5.01	2506.6	1.0000
10	1.42	712.1	0.1123	27	5.03	2516.3	0.1647
11	1.44	718.8	0.2042	28	6.22	3108.7	0.4384
12	1.45	725.8	0.2582	29	6.24	3117.5	0.0762
13	1.47	732.8	0.2201	30	6.69	3346.7	0.3496
14	1.47	736.5	0.2011	31	6.71	3355.0	0.3922
15	1.48	741.1	0.2069	32	6.73	3364.7	0.0538
16	1.49	743.8	0.2209	33	7.23	3616.5	0.3080
17	1.49	746.3	0.1962	34	7.24	3618.1	0.3763
				51	7.55	3777.1	0.1186

4j

C:\Documents and Settings\Owner\My Documents\1-CEI101-150\119-fordata\119-fordata.mn\data

22 Dec 2004
nos

Acquisition Time (sec)	0.9667	Comment	nos
Frequency (MHz)	125.85	Nucleus	¹³ C
Sweep Width (Hz)	33898.30	Temperature (degrees C)	0.000
Date	Wed Dec 22 16:35:05 2004	File Name	C:\Documents and Settings\Owner\My Documents\1-CEFI01-150\119-carbon\119-carbon.mrdata
Number of Transients	64	Original Points Count	32768
		Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	13.82	1736.5	0.3307	14	126.24	15851.9	0.3340
2	22.88	2874.5	0.3282	15	126.37	15878.5	0.6334
3	29.65	3725.9	0.3228	16	127.24	15988.2	0.6871
4	35.23	4426.3	0.2826	17	127.85	16064.7	0.3476
5	43.41	5454.6	0.2609	18	128.93	16200.2	0.6174
6	76.74	9642.4	0.9622	19	129.19	16233.3	0.3009
7	77.00	9674.4	1.0000	20	129.48	16269.5	0.6486
8	77.25	9706.5	0.8823	21	132.55	16655.4	0.2826
9	104.52	13132.9	0.1754	22	135.44	17017.5	0.1535
10	108.76	13665.6	0.2893	23	140.57	17653.0	0.1351
11	119.42	15005.4	0.1162	24	144.58	18166.8	0.1231
12	121.31	15242.3	0.1088	25	164.40	20657.0	0.1463
13	123.51	15519.5	0.1328	26	167.44	21038.7	0.1118

4j

C:\Documents and Settings\Owner\My Documents\1-CEFI01-150\119-carbon\119-carbon.mrdata

22 Dec 2004

Acquisition Time (sec)	3.2768	Comment	nos	Date	Wed Dec 22 17:14:54 2004	File Name	C:\Documents and Settings\Owner\My Documents\1-EP101-150118-fordata\118-fordata.nmdata
Frequency (MHz)	500.00	Nucleus	¹ H	Number of Transients	4	Points Count	32768
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

No.	(ppm)	Height	No.	(ppm)	Height	No.	(ppm)	Height	No.	(ppm)	Height
1	0.97	0.98	3000	2.02075e+3		2	1.42	1.58	3.827	2.57608e+3	
3	3.34	3.43	1.660	1.11784e+3		4	5.00	5.07	1.546	1.10885e+3	
5	6.13	6.23	0.824	5.54899e+2		6	6.65	6.77	0.658	5.77702e+2	
7	7.23	7.39	7.752	5.22706e+3		8	7.48	7.59	2.667	1.79628e+3	

No.	(ppm)	Height	No.	(ppm)	Height	No.	(ppm)	Height	No.	(ppm)	Height
1	0.00	0.2	1.0000	16	1.51	757.2	0.1391	31	7.27	3633.3	0.5818
2	0.03	13.6	0.0549	17	1.53	783.0	0.1774	32	7.28	3640.3	0.1625
3	0.04	18.1	0.0757	18	1.53	787.3	0.1113	33	7.29	3644.3	0.2140
4	0.07	35.5	0.0759	19	1.54	771.0	0.1236	34	7.30	3650.4	0.2090
5	0.90	447.8	0.0606	20	1.55	777.1	0.1949	35	7.32	3660.2	0.7068
6	0.91	453.0	0.3440	21	3.37	1893.5	0.2077	36	7.33	3666.9	0.3405
7	0.92	460.3	0.8006	22	3.38	1897.4	0.2451	37	7.35	3675.1	0.1409
8	0.94	487.6	0.4394	23	3.40	1898.7	0.2031	38	7.49	3747.5	0.1283
9	0.96	478.6	0.0606	24	5.02	2505.8	0.7902	39	7.51	3752.9	0.5591
10	1.43	717.0	0.0535	25	6.17	3065.8	0.3109	40	7.52	3760.6	0.3310
11	1.45	724.3	0.1755	26	6.69	3344.8	0.2065	41	7.53	3765.8	0.1299
12	1.46	731.6	0.2047	27	6.71	3352.8	0.2202	42	7.53	3767.3	0.1215
13	1.48	738.9	0.1483	28	7.25	3625.4	0.4977	43	7.54	3768.1	0.1096
14	1.50	747.8	0.1199	29	7.26	3630.3	0.9446				
15	1.51	755.1	0.1522	30	7.26	3631.5	0.8086

4k

C:\Documents and Settings\Owner\My Documents\1-EP101-150118-fordata\118-fordata.nmdata

27 Dec 2004
noe

Acquisition Time (sec)	0.9667	noe
Frequency (MHz)	125.65	13C
Sweep Width (Hz)	33898.30	
Comment		
Nucleus		
Temperature (degrees C)	0.000	
Date	Wed Dec 22 17:19:13 2004	
Number of Transients	64	
Original Points Count	32768	
File Name	C:\Documents and Settings\Owner\My Documents\118-carbon\118-carbon.mmdata	
Points Count	32768	
Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	13.86	1741.7	0.0750	14	125.24	15726.8	0.0492
2	22.81	2878.6	0.1183	15	126.55	15901.3	0.2897
3	29.69	3730.1	0.1207	16	127.26	15950.2	0.2653
4	34.94	4390.1	0.0948	17	127.72	16048.2	0.0907
5	43.38	5450.5	0.0978	18	128.67	16181.8	0.1146
6	76.74	9642.4	0.9693	19	128.87	16193.0	0.2190
7	77.00	9674.4	1.0000	20	129.29	16245.7	0.1829
8	77.25	9706.5	0.9663	21	131.92	16575.8	0.0335
9	108.08	13579.8	0.0860	22	135.81	17064.1	0.0530
10	109.13	13712.2	0.0395	23	138.85	17446.8	0.0529
11	117.39	14749.8	0.0418	24	140.86	17699.3	0.0682
12	120.00	15077.8	0.0439	25	155.29	19512.8	0.0408
13	123.04	15459.5	0.0474	26	163.05	20487.3	0.0522

4k

C:\Documents and Settings\Owner\My Documents\118-carbon\118-carbon.mmdata

19 Apr 2005
noe

Acquisition Time (sec)	3.2768	noe	Date	Sat Aug 21 15:35:57 2004	File Name	C:\Documents and Settings\Owner\My Documents\NMR\Unl\1700-1739\h1h.nm1d					
Nucleus	Frequency (MHz)	500.00	1H	Number of Transients	8	Original Points Count	32768	Points Count	32768	Solvent	CHLOROFORM-D
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	-0.00	-0.0	0.5270	18	7.07	3537.4	0.1014
2	1.24	622.3	0.0748	19	7.09	3545.0	0.1410
3	1.26	629.3	0.1188	20	7.11	3552.7	0.0680
4	1.27	636.3	0.0520	21	7.25	3626.8	0.4481
5	1.61	802.6	0.3949	22	7.26	3629.6	0.5293
6	2.04	1023.1	0.1473	23	7.27	3635.7	0.2558
7	3.84	1917.8	0.1037	24	7.32	3657.8	0.2121
8	3.88	1936.8	1.0000	25	7.32	3659.5	0.2533
9	6.83	3314.9	0.1196	26	7.33	3662.2	0.3951
10	6.85	3322.9	0.1677	27	7.35	3676.0	0.2893
11	6.87	3337.2	0.1201	28	7.37	3683.6	0.1508
12	6.89	3344.8	0.1447	29	7.37	3686.9	0.1202
13	6.70	3352.5	0.0752	30	7.38	3686.8	0.1284
14	6.73	3365.6	0.1454	31	7.38	3690.5	0.0774
15	6.75	3372.9	0.1317	32	7.39	3694.9	0.0892
16	6.93	3483.5	0.3002	33	7.87	3936.3	0.1082
17	6.94	3472.4	0.2570

C:\Documents and Settings\Owner\My Documents\NMR\Unl\1700-1739\h1h.nm1d

19 Apr 2005
noe

Acquisition Time (sec)	0.967	Comment	noe	Date	Sat Aug 21 15:58:13 2004	File Name	C:\Documents and Settings\Owner\My Documents\1\9\mm\unlq700-1735c\ah-c.mmda
Frequency (MHz)	125.65	Nucleus	¹³ C	Number of Transients	432	Points Count	32768
Sweep Width (Hz)	33888.30	Temperature (Degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

C:\Documents and Settings\Owner\My Documents\1\9\mm\unlq700-1735c\ah-c.mmda

Acquisition Time (sec)	3.2768	nos	Comment	1H	Date	Sat Aug 21 12:34:14 2004	File Name	C:\Documents and Settings\Owner\My Documents\NMR\mld700-1741\thiophene-h.mrld
Frequency (MHz)	500.00		Nucleus	¹ H	Number of Transients	8	Points Count	32788
Sweep Width (Hz)	10000.00		Temperature (degrees C)	0.000	Solvent	CHLOROFORM-D

No.	(ppm)	Hz	Height	No.	(ppm)	Hz	Height
1	-0.00	-2.1	6.2568	18	6.76	3376.4	0.1872
2	-0.00	-0.0	0.4741	19	7.06	3529.5	0.5496
3	1.24	619.8	0.2233	20	7.07	3533.7	0.5467
4	1.25	627.2	0.4057	21	7.08	3539.2	0.3505
5	1.26	629.9	0.1231	22	7.09	3546.3	0.2019
6	1.26	632.0	0.1439	23	7.24	3620.7	0.3284
7	1.27	634.2	0.1825	24	7.25	3622.9	0.4888
8	2.04	1019.3	0.4175	25	7.28	3650.3	0.2265
9	4.10	2048.3	0.0728	26	7.29	3646.7	0.6026
10	4.11	2056.3	0.1627	27	7.31	3656.4	0.3130
11	4.13	2063.7	0.1444	28	7.35	3677.5	1.0000
12	4.14	2070.4	0.0472	29	7.39	3692.7	0.8640
13	6.06	3031.1	0.0394	30	7.39	3695.5	0.6159
14	6.70	3351.2	0.1813	31	7.40	3697.6	0.5153
15	6.72	3358.6	0.3464	32	7.40	3700.4	0.3522
16	6.73	3366.2	0.4201	33	7.46	3730.9	0.1925
17	6.74	3370.5	0.4572	34	8.48	4239.3	0.0467

5d

19 Apr 2005
noe

Acquisition Time (sec)	0.9657	noe	File Name	C:\Documents and Settings\Owner\My Documents\NMR\m1d700-741 cthiophene-c.mrdata
Frequency (MHz)	125.65	13C	Points Count	32768
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000	Solvent
				CHLOROFORM-D
				Original Points Count
				246
				Number of Transients
				246
				Sat Aug 21 12:32:22 2004
				Date

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.11	1772.7	0.0314	11	127.75	16052.3	0.2384
2	76.74	8642.4	0.8959	12	126.75	15177.5	0.1006
3	77.00	8674.4	1.0000	13	126.87	15182.0	0.1033
4	77.25	8708.5	0.9678	14	126.01	15208.5	0.0490
5	109.65	13777.4	0.0612	15	126.37	15255.1	0.1257
6	121.27	15237.1	0.0824	16	130.43	15888.5	0.1623
7	122.97	15451.2	0.0822	17	138.78	17553.7	0.0513
8	124.12	15595.1	0.0352	18	140.81	17682.2	0.0261
9	126.23	15860.9	0.1512	19	141.99	17841.0	0.0657
10	127.59	16031.6	0.1098	20	146.15	18741.0	0.0250

5d

C:\Documents and Settings\Owner\My Documents\NMR\m1d700-741 cthiophene-c.mrdata

24 Sep 2004
noe

Acquisition Time (sec)	3.2768	Comment	noe	Date	Fri Sep 24 15:21:48 2004	File Name	C:\Documents and Settings\Owner\My Documents\5e\pmnm\unl\705-1749h19.24h.nm1d
Frequency (MHz)	500.00	Nucleus	¹ H	Number of Transients	4	Solvent	CHLOROFORM-D
Sweep Width (Hz)	10000.00	Temperature (Degree C)	0.000	Original Points Count	32768	Points Count	32768

5e

No.	(ppm)	Hz	Height	No.	(ppm)	Hz	Height
1	-0.00	-0.0	0.2785	13	6.59	3294.8	0.3011
2	1.10	592.1	0.4982	14	6.60	3302.4	0.1583
3	1.12	599.4	1.0000	15	6.81	3404.9	0.0735
4	1.13	587.0	0.4951	16	7.06	3527.9	0.1496
5	1.80	897.5	0.0505	17	7.25	3623.8	0.5186
6	3.30	1650.7	0.1634	18	7.26	3631.7	0.5535
7	3.32	1658.1	0.4559	19	7.44	3718.7	0.0852
8	3.33	1665.4	0.4453	20	7.45	3725.4	0.2422
9	3.35	1673.0	0.1485	21	7.46	3731.8	0.3092
10	6.00	3001.8	0.3153	22	7.47	3737.3	0.4783
11	6.02	3009.4	0.3273	23	7.49	3744.8	0.4856
12	6.57	3267.5	0.1587	24	7.50	3751.3	0.1613

C:\Documents and Settings\Owner\My Documents\5e\pmnm\unl\705-1749h19.24h.nm1d

24 Sep 2004
nos

Acquisition Time (sec)	0.9587	Comment	nos
Frequency (MHz)	125.65	Nucleus	¹³ C
Sweep Width (Hz)	33898.30	Temperature (degrees C)	0.000
File Name	C:\Documents and Settings\Owner\My Documents\NMR\Unl700-1749c9.24c.mdata	Points Count	32788
Solvent	CHLOROFORM-D	Original Points Count	32788

5e

No.	ppm	Hz	Height
1	11.92	1497.1	0.2340
2	28.00	3518.6	0.1613
3	76.74	9643.0	0.9735
4	77.00	9675.1	1.0000
5	77.28	9707.1	0.9746
6	109.28	13731.4	0.1056
7	121.30	15240.8	0.1027
8	123.22	15482.9	0.1087
9	123.27	15489.1	0.1711
10	123.57	15526.3	0.1015
11	126.89	15943.2	0.3709
12	128.12	16088.4	0.1455
13	128.28	16118.1	0.2214
14	128.10	16221.5	0.4317
15	139.79	17564.3	0.1049
16	141.34	17759.5	0.1144
17	161.43	20284.1	0.0958
18	169.79	21394.2	0.0725

C:\Documents and Settings\Owner\My Documents\NMR\Unl700-1749c9.24c.mdata

File Name	Points Count	Solvent
C:\Documents and Settings\OwnerMy Documents\N06m7mJd\700-V333h\ohcd-h.mrjid	32768	Solvent
CHLOROFORM-D

No.	(ppm)	Value	Absolute Value
1	(2.40 .. 2.54)	2.870	2.23774e+8
2	(6.59 .. 6.68)	1.000	7.79735e+7
3	(6.77 .. 6.89)	1.352	1.05443e+8
4	(6.89 .. 6.97)	0.797	1.24222e+8
5	(6.99 .. 7.11)	2.122	1.65430e+8
6	(7.16 .. 7.53)	16.410	1.279553e+9
7	(7.59 .. 7.68)	1.153	8.998936e+7
8	(7.80 .. 7.91)	0.532	4.15700e+7

	No.	(gpm)	(ft/s)	Height	No.	(gpm)	(ft/s)	Height	No.	(gpm)	(ft/s)	Height	No.	(gpm)	(ft/s)	Height
	1	-0.01	-3.4	340.8	0.5585	45	7.23	3615.9	0.8343	67	7.41	3705.9	0.3555			
	2	-0.00	-0.04	340.9	0.1075	46	7.24	3615.8	0.1595	68	7.41	3707.4	0.3331			
	3	-0.01	-0.04	340.8	0.1075	47	7.25	3622.1	0.4642	69	7.42	3710.4	0.2148			
	4	1.25	62.67	341.3	0.0916	48	7.25	3622.7	0.4649	70	7.43	3717.2	0.2888			
	5	1.25	62.68	341.5	0.1891	49	7.28	3650.8	0.5542	71	7.43	3715.0	0.1861			
	6	1.26	62.83	342.0	0.0542	50	7.28	3658.7	0.1933	72	7.44	3718.7	0.0913			
	7	1.26	63.23	342.3	0.0975	51	7.28	3658.7	0.0975	73	7.44	3720.2	0.0893			
	8	1.27	63.57	342.6	0.1069	52	7.29	3647.0	0.7804	74	7.48	3741.3	0.0869			
	9	2.04	101.84	343.1	0.0915	53	7.31	3656.7	0.2455	75	7.49	3742.8	0.0943			
	10	2.04	102.15	335.0	0.0846	54	7.32	3657.6	0.2856	76	7.49	3743.0	0.0842			
	11	2.27	113.1	330.8	0.1067	55	7.32	3659.9	0.1908	77	7.49	3747.4	0.0856			
	12	2.27	113.7	319.7	0.1043	56	7.33	3663.2	0.2890	78	7.50	3750.1	0.0965			
	13	2.30	114.0	309.8	0.35	57	7.33	3664.7	0.3775	79	7.54	3822.4	0.1941			
	14	2.30	115.0	305.3	0.1777	58	7.36	3679.0	0.2268	80	7.65	3825.8	0.0774			
	15	2.39	119.3	302.9	0.1550	59	7.36	3680.2	0.2700	81	7.65	3825.8	0.1774			
	16	2.39	119.3	305.3	0.1756	60	7.37	3687.2	0.3928	82	7.66	3830.7	0.1444			
	17	2.44	124.5	307.6	0.1767	61	7.38	3689.1	0.2268	83	7.66	3832.6	0.0510			
	18	2.45	122.6	309.1	0.1804	62	7.39	3693.3	0.2556	84	7.86	3931.4	0.1009			
	19	2.41	120.56	307.9	0.1281	63	7.39	3684.9	0.2898	85	7.87	3932.9	0.0866			
	20	4.13	206.8	306.2	0.0794	64	7.20	3601.7	0.2700	86	7.88	3940.3	0.0927			
	21	4.13	206.8	306.2	0.2244	65	7.21	3603.9	0.2244	87	7.88	3940.3	0.0927			
	22	4.64	231.0	307.4	0.3332	66	7.41	3702.8	0.2112	88	7.88	3940.3	0.0748			
	23	4.64	231.0	307.4	0.3332	67	7.41	3702.8	0.2112	89	7.88	3940.3	0.0748

59

Acquisition Time (sec)	0.9887	noe	Date	Tue Apr 19 22:47:21 2005	File Name	C:\Documents and Settings\Owner\My Documents\N\Chem\unl\0700\1733\phoLe-n.mrdata	noe
Frequency (MHz)	125.65	13C	Number of Transients	102	Points Count	32788	
Temperature (degree C)	0.000						
Sweep Width (Hz)	33888.30						
						Solvent	CHLOROFORM-D

55

No.	(ppm)	(Hz)	Height
1	21.46	2694.6	0.0054
2	76.74	942.4	0.9718
3	77.70	987.5	1.0000
4	77.70	987.5	0.9989
5	110.71	1349.8	0.1336
6	122.67	1542.8	0.1231
7	123.02	1546.7	0.0900
8	123.02	1546.7	0.1314
9	128.17	1600.5	0.2726
10	128.17	1600.5	0.0081
11	128.80	1615.8	0.0379
12	128.80	1617.3	0.1769
13	129.57	1627.8	0.0054
14	129.57	1627.8	0.9830
15	129.61	1628.0	0.3850
16	129.61	1628.1	0.1334
17	129.61	1628.6	0.3119
18	130.01	1635.6	0.1897
19	130.01	1638.6	0.2692
20	131.21	1648.6	0.0049
21	133.38	1675.9	0.1624
22	139.73	1745.1	0.0058
23	139.73	1745.1	0.0675
24	140.47	1768.6	0.0054
25	153.48	1929.5	0.0690

Acquisition Time (sec)	3.2768	Comment	noe
Frequency (MHz)	500.00	Nucleus	¹ H
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000
File Name	C:\Documents and Settings\Owner\My Documents\N\N\m\m\ld\700-1752h2O-OME.mnifd	Points Count	32768
Solvent	CHLOROFORM-D	Original Points Count	32768
Number of Transients	4

No.	ppm	Hz	Height	No.	ppm	Hz	Height
1	0.00	0.0	0.3835	17	6.90	3448.8	0.0798
2	1.24	622.0	0.0564	18	6.95	3473.0	0.2181
3	1.26	629.3	0.1165	19	6.96	3479.7	0.1009
4	1.27	636.3	0.0649	20	6.96	3481.9	0.2745
5	1.56	779.4	0.2860	21	6.97	3484.6	0.0804
6	2.04	1021.8	0.1638	22	7.06	3528.9	0.1287
7	3.79	1893.7	0.0816	23	7.07	3536.8	0.1274
8	3.85	1925.7	0.2740	24	7.20	3602.1	0.0536
9	3.89	1944.9	1.0090	25	7.21	3605.6	0.0748
10	6.77	3386.0	0.0843	26	7.22	3611.8	0.1105
11	6.78	3390.0	0.0510	27	7.24	3617.7	0.0828
12	6.79	3394.0	0.1293	28	7.24	3619.2	0.0894
13	6.84	3419.9	0.0819	29	7.26	3629.3	0.3716
14	6.86	3427.5	0.1191	30	7.27	3639.6	0.0865
15	6.87	3435.5	0.0883	31	7.28	3639.6	0.2854
16	6.88	3441.0	0.0692	32	7.28	3646.4	0.1248

19 Apr 2005
noe

Acquisition Time (sec)	0.9877	Comment	noe
Frequency (MHz)	125.65	Nucleus	¹³ C
Sweep Width (Hz)	33898.90	Temperature (degree C)	0.000
Date	Wed Sep 8 15:07:53 2004	File Name	C:\Documents and Settings\Owner\My Documents\1_Noe\mtd\mtd700-1752-9.8C.mdata
Number of Transients	161	Original Points Count	32768
		Points Count	Solvent

No.	ppm	Height	No.	ppm	Height
1	55.36	6955.7	12	129.03	18212.6
2	55.40	6960.9	13	129.41	18289.2
3	76.74	9642.4	14	129.71	18286.5
4	77.00	9674.4	15	130.10	18347.1
5	77.25	9706.5	16	130.66	18417.5
6	110.63	13900.5	17	131.76	18555.1
7	114.27	14357.7	18	132.64	18653.4
8	122.44	15384.0	19	139.36	17511.0
9	123.03	15458.5	20	153.42	18276.9
10	124.86	15889.2	21	161.36	20278.3
11	128.03	16097.5

5h

C:\Documents and Settings\Owner\My Documents\1_Noe\mtd\mtd700-1752-9.8C.mdata

19 Apr 2005
noe

Acquisition Time (sec)	3.2768	Comment	noe
Frequency (MHz)	500.00	Nucleus	¹ H
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000
File Name		Polits Count	32768
Original Points Count		32768	Solvent
C:\Documents and Settings\Owner\My Documents\		CHLOROFORMD

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.00	0.0	0.7126	16	7.32	3659.5	0.1212	31	7.47	3734.2	0.0862
2	1.55	774.9	1.0000	17	7.32	3661.0	0.2004	32	7.47	3736.1	0.0707
3	6.55	3277.1	0.0534	18	7.33	3665.9	0.0849	33	7.48	3738.5	0.1164
4	6.57	3285.0	0.0578	19	7.33	3667.4	0.1245	34	7.48	3741.0	0.1849
5	6.84	3422.0	0.0760	20	7.34	3668.9	0.1309	35	7.48	3746.8	0.1433
6	6.85	3426.8	0.0867	21	7.38	3691.2	0.0599	36	7.50	3748.0	0.1544
7	6.86	3429.7	0.0527	22	7.39	3692.7	0.0716	37	7.50	3750.7	0.0940
8	7.08	3538.6	0.0546	23	7.40	3695.8	0.1217	38	7.50	3752.3	0.1107
9	7.08	3540.1	0.0633	24	7.40	3701.3	0.0771	39	7.51	3753.8	0.0795
10	7.09	3546.5	0.0765	25	7.41	3707.4	0.0710	40	7.52	3759.3	0.0635
11	7.25	3624.7	0.0751	26	7.43	3716.8	0.0626	41	7.53	3814.2	0.1210
12	7.26	3630.5	0.8922	27	7.44	3720.5	0.1124	42	7.54	3822.1	0.1045
13	7.28	3640.2	0.0664	28	7.45	3724.2	0.0986	43	7.73	3863.3	0.0861
14	7.30	3652.5	0.0628	29	7.46	3728.4	0.1336	44	7.74	3871.6	0.0812
15	7.31	3654.0	0.0632	30	7.46	3732.1	0.0905

5i

C:\Documents and Settings\Owner\My Documents\N00mm.m.a\700-1753hcd6.nm.fid

19 Apr 2005
nuc

Acquisition Time (sec)	0.967	Date	Tue Apr 19 23:01:40 2005	File Name	C:\Documents and Settings\Owner\My Documents\19\Chem\unlq700\1550jchf5-c.mmda
Frequency (MHz)	125.65	Nucleus	¹³ C	Points Count	32768
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000	Original Points Count	32768
				Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height
1	76.74	9842.4	1.0000
2	77.00	9874.4	0.5921
3	77.25	9706.5	0.5445
4	110.87	13930.5	0.0344
5	114.90	14437.4	0.0254
6	123.40	15505.0	0.0339
7	128.30	16120.6	0.0376
8	129.10	16220.9	0.0724
9	129.32	16246.3	0.0939
10	129.73	16300.6	0.0567
11	130.36	16390.2	0.0807
12	132.66	16888.9	0.0251
13	154.95	19469.3	0.0183

5i

C:\Documents and Settings\Owner\My Documents\19\Chem\unlq700\1550jchf5-c.mmda

Acquisition Time (sec)	3.2768	noe	Date	Mon Aug 2 15:47:52 2004	File Name	C:\Documents and Settings\Owner\My Documents\NMR\mua\700-V3281r1r1.mnifd	
Frequency (MHz)	500.00	1H	Number of Transients	4	Points Count	32788	
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000	Original Points Count	32788	Solvent	CHLOROFORM-D

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.00	0.0	0.5057	16	1.46	731.8	0.1837	31	6.75	3372.6	0.0771
2	0.01	5.5	0.1320	17	1.47	737.3	0.2037	32	6.75	3374.7	0.1200
3	0.89	442.5	0.2963	18	1.48	741.3	0.1563	33	6.75	3375.0	0.1438
4	0.90	449.5	0.8620	19	1.50	750.5	0.0532	34	7.02	3511.5	0.2088
5	0.91	455.0	0.2895	20	1.86	778.1	0.8892	35	7.04	3518.4	0.2552
6	0.91	456.6	0.4689	21	1.57	784.5	0.2259	36	7.15	3573.7	0.1152
7	0.92	462.1	0.1385	22	2.04	1022.4	0.1396	37	7.15	3574.9	0.1529
8	1.26	629.6	0.1105	23	3.22	1605.3	0.2386	38	7.17	3582.9	0.2231
9	1.27	636.6	0.0584	24	3.23	1616.6	0.2881	39	7.17	3586.8	0.0761
10	1.40	701.0	0.0718	25	3.25	1623.6	0.2585	40	7.18	3589.3	0.1022
11	1.42	708.0	0.1497	26	3.26	1626.5	0.0734	41	7.18	3590.5	0.1128
12	1.43	715.4	0.2065	27	6.11	3055.4	0.2114	42	7.25	3627.4	0.2410
13	1.44	722.4	0.2448	28	6.12	3061.3	0.2211	43	7.26	3629.0	0.3538
14	1.46	727.6	0.2294	29	6.72	3360.4	0.1375	44	7.26	3630.5	1.0000
15	1.46	729.4	0.2228	30	6.74	3366.3	0.2505	45	7.27	3635.1	0.4555

5j

19 Apr 2005
nos

Acquisition Time (sec)	0.9567	Comment	nos
Frequency (MHz)	125.65	Nucleus	¹³ C
Sweep Width (Hz)	33888.30	Temperature (degree C)	0.000
Date	Tue Apr 19 22:11:33 2005	File Name	C:\Documents and Settings\Owner\My Documents*_N\09mm\un\q700-1732c\pbu-c-nmdata
Number of Transients	163	Points Count	32768
		Original Points Count	32768
		Solvent	CHLOROFORM-D

No.	(ppm)	Hz	Height	No.	(ppm)	Hz	Height
1	13.79	1732.4	0.1214	11	123.14	15471.9	0.0507
2	22.73	2855.9	0.1131	12	123.72	15545.4	0.0457
3	29.68	3729.0	0.1219	13	126.63	15910.6	0.2081
4	35.14	4414.9	0.1024	14	128.87	16193.0	0.1003
5	76.74	9642.4	0.9781	15	129.11	16223.0	0.1043
6	77.00	9674.4	1.0000	16	129.26	16241.6	0.1996
7	77.25	9706.5	0.9700	17	140.58	17664.1	0.0474
8	110.42	13874.5	0.0963	18	152.79	19186.3	0.0470
9	119.03	14856.7	0.0477	19	163.65	20562.8	0.0404
10	122.81	15431.8	0.0937	20	167.22	21010.8	0.0315

5j

C:\Documents and Settings\Owner\My Documents*_N\09mm\un\q700-1732c\pbu-c-nmdata

Acquisition Time (sec)	noe	Date	File Name
3.2768		Sat Aug 28 13:31:50 2004	C:\Documents and Settings\OswaldW\Documents*_NMRnmv.mr[0700-17468]-7.29H3.nmrd
Frequency (MHz)	Nucleus	Number of Transients	Points Count
500.00	¹ H	4	32768
Transmittance (Percent %)	Temperature (Celsius C)	Original Points Count	Solvent
10000.00	0.0000	32768	CHLOROFORM-D
Scan Width (Hz)			
10000.00

No.	[ppm]	[Hz]	Height	No.	[ppm]	[Hz]	Height	No.	[ppm]	Value	Absolute Value
1	0.00	0.00000	18	6.88	3441.6	0.0881	35	7.28	3847.6	9.82595e+7	9.82595e+7
2	1.00	0.00000	19	6.80	3441.8	0.1013	38	7.20	3847.4	1.65252e+8	1.65252e+8
3	1.24	622.3	0.0594	21	6.83	3441.5	0.2296	37	7.32	3865.9	4.40931e+7
4	1.26	629.3	0.1213	20	6.83	3441.5	0.2590	37	7.32	3865.9	1.86704e+8
5	1.47	636.6	0.0101	21	6.85	3475.0	0.2290	38	7.35	3865.6	3.878
6	1.56	745.2	0.2885	22	6.87	3477.6	0.1923	39	7.35	3875.3	6.70222e+7
7	1.60	1022.1	0.2167	23	6.87	3486.4	0.1829	40	7.36	3880.2	9.52886e+8
8	1.77	1084.9	0.1996	24	7.02	3515.6	0.0593	42	7.37	3886.9	8.55849e+7
9	1.78	1085.0	0.0095	25	7.04	3516.0	0.0816	41	7.37	3886.9	6.18914e+7

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No.	[ppm]	(δ Hz)	Height
1	55.33	9346.0	0.0644
2	53.30	8862.2	0.0612
3	53.30	9443.0	0.7939
4	53.30	8675.1	0.3700
5	77.00	8675.1	0.3700
6	77.00	7707.8	0.3841
7	135.56	13784.5	0.0685
8	135.56	13784.5	0.0685
9	135.56	13784.5	0.0685
10	135.56	13784.5	0.0685
11	135.56	13784.5	0.0685
12	135.56	13784.5	0.0685
13	135.56	13784.5	0.0685
14	135.56	13784.5	0.0685
15	135.56	13784.5	0.0685
16	135.56	13784.5	0.0685
17	135.56	13784.5	0.0685
18	135.56	13784.5	0.0685
19	135.56	13784.5	0.0685
20	135.56	13784.5	0.0685
21	135.56	13784.5	0.0685
22	135.56	13784.5	0.0685
23	135.56	13784.5	0.0685
24	135.56	13784.5	0.0685
25	135.56	13784.5	0.0685
26	135.56	13784.5	0.0685
27	135.56	13784.5	0.0685
28	135.56	13784.5	0.0685
29	135.56	13784.5	0.0685
30	135.56	13784.5	0.0685
31	135.56	13784.5	0.0685
32	135.56	13784.5	0.0685
33	135.56	13784.5	0.0685
34	135.56	13784.5	0.0685
35	135.56	13784.5	0.0685
36	135.56	13784.5	0.0685
37	135.56	13784.5	0.0685
38	135.56	13784.5	0.0685
39	135.56	13784.5	0.0685
40	135.56	13784.5	0.0685
41	135.56	13784.5	0.0685
42	135.56	13784.5	0.0685
43	135.56	13784.5	0.0685
44	135.56	13784.5	0.0685
45	135.56	13784.5	0.0685
46	135.56	13784.5	0.0685
47	135.56	13784.5	0.0685
48	135.56	13784.5	0.0685
49	135.56	13784.5	0.0685
50	135.56	13784.5	0.0685
51	135.56	13784.5	0.0685
52	135.56	13784.5	0.0685
53	135.56	13784.5	0.0685
54	135.56	13784.5	0.0685
55	135.56	13784.5	0.0685
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58	135.56	13784.5	0.0685
59	135.56	13784.5	0.0685
60	135.56	13784.5	0.0685
61	135.56	13784.5	0.0685
62	135.56	13784.5	0.0685
63	135.56	13784.5	0.0685
64	135.56	13784.5	0.0685
65	135.56	13784.5	0.0685
66	135.56	13784.5	0.0685
67	135.56	13784.5	0.0685
68	135.56	13784.5	0.0685
69	135.56	13784.5	0.0685
70	135.56	13784.5	0.0685
71	135.56	13784.5	0.0685
72	135.56	13784.5	0.0685
73	135.56	13784.5	0.0685
74	135.56	13784.5	0.0685
75	135.56	13784.5	0.0685
76	135.56	13784.5	0.0685
77	135.56	13784.5	0.0685
78	135.56	13784.5	0.0685
79	135.56	13784.5	0.0685
80	135.56	13784.5	0.0685
81	135.56	13784.5	0.0685
82	135.56	13784.5	0.0685
83	135.56	13784.5	0.0685
84	135.56	13784.5	0.0685
85	135.56	13784.5	0.0685
86	135.56	13784.5	0.0685
87	135.56	13784.5	0.0685
88	135.56	13784.5	0.0685
89			

19 Apr 2005
noe

Acquisition Time (sec)	3.2768	Comment	noe
Frequency (MHz)	500.00	Nucleus	¹ H
Sweep Width (Hz)	10000.00	Temperature (degree C)	0.000
File Name	C:\Documents and Settings\Owner\My Documents\1\NMR\m\lq600-01513\bu-h.mr1d	Points Count	32768
Solvent	CHLOROFORM-D		

Date	Tue Apr 19 19:48:38 2005
Number of Transients	4
Original Points Count	32768

9a

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.00	0.0	0.1281	16	7.22	3610.8	0.0713
2	1.25	627.5	0.0386	17	7.23	3615.8	0.0661
3	1.26	629.3	0.0341	18	7.24	3618.6	0.0668
4	1.50	751.1	1.0000	19	7.25	3622.5	0.0380
5	1.51	754.7	0.1753	20	7.26	3625.9	0.1833
6	4.88	2492.1	0.1517	21	7.27	3635.7	0.0450
7	5.65	2823.9	0.0714	22	7.28	3637.8	0.0367
8	5.68	2839.7	0.0692	23	7.30	3650.9	0.0358
9	5.78	2888.6	0.0382	24	7.32	3658.9	0.0888
10	5.79	2886.2	0.0416	25	7.33	3665.6	0.1654
11	6.57	3282.9	0.0424	26	7.51	3757.1	0.1085
12	6.59	3312.8	0.0369	27	7.52	3758.4	0.1035
13	6.64	3320.7	0.0423	28	7.53	3764.2	0.0570
14	7.03	3515.4	0.0410	29	8.50	4747.5	0.0683
15	7.22	3609.1	0.0606	30	9.53	4763.3	0.0731

C:\Documents and Settings\Owner\My Documents\1\NMR\m\lq600-01513\bu-h.mr1d

19 Apr 2005
nos

Acquisition Time (sec)	0.967	nos	Comment	nos
Frequency (MHz)	135.65	13C	Nucleus	13C
Sweep Width (Hz)	33998.30		Temperature (degree C)	0.000
File Name	C:\Documents and Settings\Owner\My Documents\N_0\Nmm\Unq\800-815c1bu-c-nmdata	Original Points Count	32768	Points Count
Solvent	CHLOROFORM-D

No.	ppm	Hz	Height	No.	ppm	Hz	Height
1	28.04	3523.2	0.2743	13	127.55	16300.6	0.0785
2	43.34	5445.3	0.0517	14	128.31	16122.6	0.1493
3	76.74	9642.4	1.0000	15	128.78	16181.6	0.2566
4	77.00	9874.4	0.9947	16	129.34	16252.0	0.0315
5	77.25	9706.5	0.9632	17	129.45	16265.4	0.1340
6	80.85	10158.6	0.0684	18	129.70	16296.4	0.0576
7	108.73	13861.5	0.0666	19	131.35	16504.4	0.0590
8	121.81	15305.4	0.0574	20	136.05	17084.1	0.0436
9	122.63	15408.8	0.0350	21	140.37	17637.2	0.0598
10	124.72	15707.6	0.0630	22	143.12	17982.7	0.0444
11	126.99	15956.1	0.0329	23	147.82	18573.4	0.0377
12	127.35	16001.6	0.1832	24	165.92	20848.4	0.0288

9a

C:\Documents and Settings\Owner\My Documents\N_0\Nmm\Unq\800-815c1bu-c-nmdata

Acquisition Time (sec)	3.2768	File Name	C:\Documents and Settings\Owner\My Documents\7-N-Brm\Unlq800-1861hcn-h-nmrd
Frequency (MHz)	500.00	Points Count	32768
Sweep Width (Hz)	10000.00	Solvent	CHLOROFORM-D
Comment	1H	Date	Mon Feb 7 13:11:24 2005
Nucleus	1H	Number of Transients	4
Temperature (degree C)	0.000	Original Points Count	32768

No.	(ppm)	Value	Absolute Value
1	4.91 .. 5.00	2.060	2.0221e+8
2	5.15 .. 5.24	1.003	9.84138e+7
3	5.75 .. 5.84	1.004	9.86030e+7
4	6.53 .. 6.63	1.068	1.04609e+8
5	6.83 .. 6.71	1.025	1.00597e+8
6	7.03 .. 7.12	1.032	1.01350e+8
7	7.17 .. 7.24	2.155	2.11569e+8
8	7.24 .. 7.38	5.660	5.55801e+8
9	7.51 .. 7.61	3.143	3.08598e+8
10	9.42 .. 9.53	1.000	9.81679e+7

9b

7 Feb 2005
noe

Acquisition Time (sec)	0.9637	Comment	noe	Date	Mon Feb 7 13:16:58 2005	File Name	C:\Documents and Settings\Owner\My Documents\NMR\m\lq900-961 c1n-c-nmdata
Frequency (MHz)	125.65	Nucleus	¹³ C	Number of Transients	100	Points Count	32768
Sweep Width (Hz)	33898.30	Temperature (degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

No.	(ppm)	Height	(Hz)	No.	(ppm)	Height
1	43.47	5461.4	0.2026	13	127.84	16063.2
2	76.75	9844.0	0.3604	14	128.37	16129.5
3	77.00	9875.0	0.3840	15	128.88	16193.5
4	77.26	9707.1	0.3000	16	129.41	16259.8
5	106.28	13353.8	0.2063	17	129.81	16310.5
6	109.00	13686.3	0.2302	18	130.60	16409.8
7	118.00	14827.0	0.0866	19	134.89	16848.8
8	122.04	15333.9	0.1068	20	135.70	17051.2
9	122.16	15349.4	0.2445	21	143.55	18037.1
10	125.15	15725.0	0.2603	22	145.36	18264.7
11	127.38	16005.3	0.5526	23	147.20	18485.4
12	127.78	16055.0	0.2347	24	166.97	20880.3

9b

C:\Documents and Settings\Owner\My Documents\NMR\m\lq900-961 c1n-c-nmdata

5 Feb 2005
noe

Acquisition Time (sec)	0.9607	Comment	noe	Date	Sat Feb 5 15:00:44 2005	File Name	C:\Documents and Settings\Owner\My Documents\1_N\0nmr\unlq4800-8556\2.5c.mdata
Frequency (MHz)	125.05	Nucleus	¹³ C	Number of Transients	100	Points Count	32768
Sweep Width (Hz)	33886.30	Temperature (degree C)	0.000	Original Points Count	32768	Solvent	CHLOROFORM-D

9c

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	43.28	5438.7	0.0887	14	128.18	16105.7	0.0960
2	76.74	9643.0	0.9858	15	128.52	16148.1	0.0966
3	77.00	9675.1	1.0000	16	128.67	16154.3	0.2036
4	77.26	9707.1	0.9811	17	128.71	16172.9	0.2016
5	96.87	12171.4	0.0300	18	128.77	16180.1	0.2099
6	108.43	13623.8	0.0889	19	129.13	16225.7	0.0895
7	121.57	15274.9	0.0858	20	129.26	16241.2	0.1833
8	123.43	15508.7	0.0608	21	136.38	17136.1	0.0604
9	123.68	15540.8	0.0637	22	137.64	17294.3	0.0554
10	127.31	15996.0	0.2100	23	141.78	17814.7	0.0837
11	127.50	16019.8	0.0889	24	151.58	19045.8	0.0351
12	127.66	16040.5	0.0837	25	158.06	21116.9	0.0476
13	127.96	16078.8	0.2137				

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19 Apr 2005
noe

Acquisition Time (sec)	0.9827	Comment	noe
Frequency (MHz)	125.65	Nucleus	¹³ C
Sweep Width (Hz)	33898.30	Temperature (degree C)	0.000
Date	Tue Apr 19 20:11:39 2005	File Name	C:\Documents and Settings\Owner\My Documents\NMR\mmluq700-1705c\plph-c-nmdata
Number of Transients	154	Point Count	32768
Original Point Count	32768	Solvent	CHLOROFORM-D

No.	Chemical Shift (ppm)	Height	Area
1	166.5440	0.1476	16167.1
2	155.0472	0.1476	16167.1
3	142.4753	0.1476	16167.1
4	141.3987	0.1476	16167.1
5	139.9062	0.1476	16167.1
6	136.3743	0.1476	16167.1
7	132.0930	0.1476	16167.1
8	132.0930	0.1476	16167.1
9	132.0930	0.1476	16167.1
10	132.0930	0.1476	16167.1
11	132.0930	0.1476	16167.1
12	132.0930	0.1476	16167.1
13	132.0930	0.1476	16167.1
14	132.0930	0.1476	16167.1
15	132.0930	0.1476	16167.1
16	132.0930	0.1476	16167.1
17	132.0930	0.1476	16167.1
18	132.0930	0.1476	16167.1
19	132.0930	0.1476	16167.1
20	132.0930	0.1476	16167.1
21	132.0930	0.1476	16167.1
22	132.0930	0.1476	16167.1
23	132.0930	0.1476	16167.1
24	132.0930	0.1476	16167.1
25	132.0930	0.1476	16167.1
26	132.0930	0.1476	16167.1
27	132.0930	0.1476	16167.1
28	132.0930	0.1476	16167.1
29	132.0930	0.1476	16167.1
30	132.0930	0.1476	16167.1
31	132.0930	0.1476	16167.1
32	132.0930	0.1476	16167.1
33	132.0930	0.1476	16167.1
34	132.0930	0.1476	16167.1
35	132.0930	0.1476	16167.1
36	132.0930	0.1476	16167.1
37	132.0930	0.1476	16167.1
38	132.0930	0.1476	16167.1
39	132.0930	0.1476	16167.1
40	132.0930	0.1476	16167.1
41	132.0930	0.1476	16167.1
42	132.0930	0.1476	16167.1
43	132.0930	0.1476	16167.1
44	132.0930	0.1476	16167.1
45	132.0930	0.1476	16167.1
46	132.0930	0.1476	16167.1
47	132.0930	0.1476	16167.1
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49	132.0930	0.1476	16167.1
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51	132.0930	0.1476	16167.1
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57	132.0930	0.1476	16167.1
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59	132.0930	0.1476	16167.1
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63	132.0930	0.1476	16167.1
64	132.0930	0.1476	16167.1
65	132.0930	0.1476	16167.1
66	132.0930	0.1476	16167.1
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73	132.0930	0.1476	16167.1
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75	132.0930	0.1476	16167.1
76	132.0930	0.1476	16167.1
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78	132.0930	0.1476	16167.1
79	132.0930	0.1476	16167.1
80	132.0930	0.1476	16167.1
81	132.0930	0.1476	16167.1
82	132.0930	0.1476	16167.1
83	132.0930	0.1476	16167.1
84	132.0930	0.1476	16167.1
85	132.0930	0.1476	16167.1
86	132.0930	0.1476	16167.1
87	132.0930	0.1476	16167.1
88	132.0930	0.1476	16167.1
89	132.0930	0.1476	16167.1
90	132.0930	0.1476	16167.1
91	132.0930	0.1476	16167.1
92	132.0930	0.1476	16167.1
93	132.0930	0.1476	16167.1
94	132.0930	0.1476	16167.1
95	132.0930	0.1476	16167.1
96	132.0930	0.1476	16167.1
97	132.0930	0.1476	16167.1
98	132.0930	0.1476	16167.1
99	132.0930	0.1476	16167.1
100	132.0930	0.1476	16167.1
101	132.0930	0.1476	16167.1
102	132.0930	0.1476	16167.1
103	132.0930	0.1476	16167.1
104	132.0930	0.1476	16167.1
105	132.0930	0.1476	16167.1
106	132.0930	0.1476	16167.1
107	132.0930	0.1476	16167.1
108	132.0930	0.1476	16167.1
109	132.0930	0.1476	16167.1
110	132.0930	0.1476	16167.1
111	132.0930	0.1476	16167.1
112	132.0930	0.1476	16167.1
113	132.0930	0.1476	16167.1
114	132.0930	0.1476	16167.1
115	132.0930	0.1476	16167.1
116	132.0930	0.1476	16167.1
117	132.0930	0.1476	16167.1
118	132.0930	0.1476	16167.1
119	132.0930	0.1476	16167.1
120	132.0930	0.1476	16167.1
121	132.0930	0.1476	16167.1
122	132.0930	0.1476	16167.1
123	132.0930	0.1476	16167.1
124	132.0930	0.1476	16167.1
125	132.0930	0.1476	16167.1
126	132.0930	0.1476	16167.1
127	132.0930	0.1476	16167.1
128	132.0930	0.1476	16167.1
129	132.0930	0.1476	16167.1
130	132.0930	0.1476	16167.1
131	132.0930	0.1476	16167.1
132	132.0930	0.1476	16167.1
133	132.0930	0.1476	16167.1
134	132.0930	0.1476	16167.1
135	132.0930	0.1476	16167.1
136	132.0930	0.1476	16167.1
137	132.0930	0.1476	16167.1
138	132.0930	0.1476	16167.1
139	132.0930	0.1476	16167.1
140	132.0930	0.1476	16167.1
141	132.0930	0.1476	16167.1
142	132.0930	0.1476	16167.1
143	132.0930	0.1476	16167.1
144	132.0930	0.1476	16167.1
145	132.0930	0.1476	16167.1
146	132.0930	0.1476	16167.1
147	132.0930	0.1476	16167.1
148	132.0930	0.1476	16167.1
149	132.0930	0.1476	16167.1
150	132.0930	0.1476	16167.1
151	132.0930	0.1476	16167.1
152	132.0930	0.1476	16167.1
153	132.0930	0.1476	16167.1
154	132.0930	0.1476	16167.1

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