Supplementary Information (Manuscript C005066K)

- 1) Experimental procedures and spectroscopic data for compounds 6-12, 16-19 and 21-29 described in the paper are given in the supporting information.
- 2) ¹H NMR scans for all compounds 6-12, 13a-g, 16-19 and 21-29 are provided.

Isopropyl 4-acetylbenzenesulfonate (6). 4-Dimethylaminopyridine (2.30 g, 18.9 mmol) and dry CH₂Cl₂ (50 mL) were added to 2-propanol (1.45 mL, 19.0 mmol), the mixture was cooled to 0-5°C, and a solution of 4-acetylbenzenesulfonyl chloride (**5**, 1.38 g, 6.3 mmol) in dry CH₂Cl₂ (20 mL) was added drop wise with stirring. The reaction was allowed to proceed at 25°C for 4 hours with stirring, the mixture was washed with 1M aqueous HCl solution (2 x 80 mL) and then brine (100 mL), the organic layer was dried (MgSO₄), and the solvent was removed in vacuo to give **6** (1.35 g, 88%) as a yellowish oil which was used without further purification. IR (film): 2986, 1698, 1368, 1184 cm⁻¹; ESI-MS: 243 [M+H]⁺; ¹H NMR (CDCl₃): δ 1.31 (d, *J* = 6.1 Hz, 6H, CH(*CH*₃)₂), 2.67 (s, 3H, CO*CH*₃), 4.83 (heptet, *J* = 6.1 Hz, 1H, *CH*(CH₃)₂), 8.02 (dd, *J* = 6.7, 1.8 Hz, 2H, phenyl H-2, H-6), 8.11 (dd, *J* = 6.7, 1.8 Hz, 2H, phenyl H-3, H-5).

1,1-Diphenyl-2-(4-isopropoxysulfonylphenyl)prop-1-ene (7). TiCl₄ (2.73 mL, 24.8 mmol) was added drop wise to a stirred suspension of Zn powder (3.24 g, 49.8 mmol) in dry THF (80 mL), under an argon atmosphere at -10°C, and the reaction mixture was refluxed for 2 hours. A solution of isopropyl 4-acetylbenzenesulfonate (6, 1.5 g, 6.2 mmol) and benzophenone (1.13 g, 6.2 mmol) in dry THF (20 mL) were added to a cooled suspension of the titanium reagent at 0°C, and the reaction was allowed to proceed at reflux for 30 minutes. After cooling to 25°C, the reaction mixture was poured into a 10% aqueous K₂CO₃ solution (100 mL), this mixture was stirred vigorously for 5 minutes, and the dispersed insoluble material was removed by vacuum filtration through a pad of Celite 545. The organic layer was separated and the aqueous layer was extracted with EtOAc (2 x 80 mL). The combined organic fractions were washed with water and then brine, and the organic fraction was dried (MgSO₄). Removal of the solvent in vacuo gave a residue that was purified by silica gel column chromatography using EtOAc:hexane (1:20, v/v) as eluant to afford **7** (650 mg, 27.1%) as a white solid, mp 91-94°C. IR (film): 2990, 2919, 1364, 1185 cm⁻¹; ESI-MS: 393 [M+H]⁺, 410 [M+NH₄]⁺; ¹H NMR (CDCl₃): δ 1.23 (d, *J* = 6.1 Hz, 6H, CH(*CH₃*)₂), 2.17 (s, 3H, *CH*₃C=C), 4.68 (heptet, *J* = 6.1 Hz, 1H, *CH*(CH₃)₂), 6.84-6.88 (m, 2H,

phenyl hydrogens), 7.00-7.10 (m, 3H, phenyl hydrogens), 7.23-7.40 (m, 7H, phenyl hydrogens, sulfonylphenyl H-2, H-6), 7.69 (dd, J = 6.7, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di-(4-methylphenyl)-2-(4-isopropoxysulfonylphenyl)prop-1-ene (8). Compound 8 was prepared using a methodology similar to that described above for the synthesis of compound 7 except that 4,4'-dimethylbenzophenone was used in place of benzophenone; 33.6% yield, white solid, mp 150-153°C; IR (film): 2928, 2923, 1360, 1193 cm⁻¹; ESI-MS: 443 [M+Na]⁺; ¹H NMR (CDCl₃): δ 1.24 (d, J = 6.1 Hz, 6H, CH(*CH*₃)₂), 2.17 (s, 3H, Ar*CH*₃), 2.21 (s, 3H, Ar*CH*₃), 2.38 (s, 3H, *CH*₃C=C), 4.69 (heptet, J = 6.1 Hz, 1H, *CH*(CH₃)₂), 6.72 and 6.82 (two d, J = 7.9 Hz, 2H each, tolyl H-3, H-5), 7.11-7.31 (m, 6H, two tolyl H-2, H-6 and sulfonylphenyl H-2, H-6), 7.69 (dd, J = 6.7, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Diphenyl-2-(4-oxysulfonylphenyl)prop-1-ene sodium salt (9). 1,1-Diphenyl-2-(4isopropoxysulfonylphenyl)prop-1-ene (**7**, 0.478 g, 1.14 mmol) was dissolved in acetone (15 mL), NaI (0.256 g, 1.17 mmol) was added, and the reaction *mixture* was stirred at reflux for 16 hours. Removal of the solvent *in vacuo* gave a solid which was washed with acetone (2 mL) and then EtOAc (2 mL) to provide **9** (92%) as a white solid, mp 265-270°C; IR (KBr): 3058, 3017, 1206, 1134 cm⁻¹; ESI-MS: 349 [M-Na]⁻; ¹H NMR (DMSO-d₆): δ 2.03 (s, 3H, *CH*₃C=C), 6.87-6.89 (m, 2H, phenyl hydrogens), 7.01-7.30 (m, 10H, phenyl hydrogens and sulfonylphenyl H-2, H-6), 7.36 (d, *J* = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di-(4-methylphenyl)-2-(4-oxysulfonylphenyl)prop-1-ene sodium salt (10). Reaction of **8** with NaI, using a methodology similar to that used to prepare **9**, furnished **10** (88%) as a white solid; mp > 300 °C; IR (KBr): 3037, 2919, 1191, 1129 cm⁻¹; ESI-MS: 377 [M-Na]⁻; ¹H NMR (DMSO-d₆): δ 2.03 (s, 3H, *CH*₃C=C), 2.15 (s, 3H, Ar*CH*₃), 2.31 (s, 3H, Ar*CH*₃), 6.73 and 6.88 (two d, *J* = 7.9 Hz, 2H each, tolyl H-3, H-5), 7.06 and 7.09 (two overlapping d, *J* = 7.9 Hz, 4H total, tolyl H-2, H-6), 7.17 (d, *J* = 7.9 Hz, 2H, sulfonylphenyl H-2, H-6), 7.36 (d, *J* = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Diphenyl-2-(4-chlorosulfonylphenyl)prop-1-ene (**11**). 1,1-Diphenyl-2-(4-oxysulfonylphenyl)prop-1-ene sodium salt (**9**, 0.290 g, 7.25 mmol) was dissolved in DMF (10 mL) and SOCl₂ (0.173 g, 1.45 mmol) was added. The reaction mixture was stirred at 25°C for 1 hour, poured into cold water (80 mL), and extracted with EtOAc (3 x 80 mL). The combined organic fractions were washed with aqueous HCl solution and then brine prior to drying the organic fraction (Na₂SO₄). Removal of the solvent in vacuo gave **11** as a brown syrup (85.2%)

that was used without further purification. IR (film): 1378, 1189 cm⁻¹; ESI-MS: 369 [M+H]⁺; ¹H NMR (CDCl₃): δ 2.19 (s, 3H, *CH*₃C=C), 6.86-6.89 (m, 2H, phenyl hydrogens), 7.07-7.09 (m, 3H, phenyl hydrogens), 7.24-7.41 (m, 7H, phenyl hydrogens and sulfonylphenyl H-2, H-6), 7.82 (d, *J* = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di-(4-methylphenyl)-2-(4-chlorosulfonylphenyl)prop-1-ene (12). Compound **12** was synthesized, using a methodology similar to that used to prepare **11**, as a brown syrup (79%); IR (film): 2969, 2919, 2849, 1382, 1176 cm⁻¹; ESI-MS: 397 $[M+H]^+$; ¹H NMR (CDCl₃): δ 2.17 (s, 3H, *CH*₃C=C), 2.23 (s, 3H, Ar*CH*₃), 2.38 (s, 3H, Ar*CH*₃), 6.73 and 6.86 (two d, *J* = 8.6 and 7.9 Hz, respectively, 2H each, tolyl H-3, H-5), 7.10-7.19 (m, 4H, two tolyl H-2, H-6), 7.34-7.38 (m, 2H, sulfonylphenyl H-2, H-6), 7.81 (dd, *J* = 6.7, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di-(4-fluorophenyl)-2-phenylprop-1-ene (**16**). The McMurry reaction of acetopheneone (**14**) and 4,4'-difluorobenopheneone, using a procedure similar to that used to prepare **7**, afforded the title compound **16** as a white syrup (71.3%). IR (film): 1604, 1508, 1220, 1154 cm⁻¹; ESI-MS: 307 [M+H]⁺; ¹H NMR (CDCl₃): δ 2.14 (s, 3H, *CH*₃C=C), 6.70-6.76 and 6.8-6.86 (two m, 2H each, 4-fluorophenyl H-3, H-5), 6.94-7.23 (m, 9H, two 4-fluorophenyl H-2, H-6 and five phenyl hydrogens).

1,1-Di-(4-fluorophenyl)-2-phenylhex-1-ene (17). The McMurry cross-coupling reaction of valerophenone (**15**) and 4,4'-difluorobenzophenone, using a procedure similar to that used for the synthesis of **7**, furnished the title compound **17** as a white solid (83%); mp 73-75°C; IR (film): 1512, 1224, 1159 cm⁻¹; ESI-MS: 349 [M+H]⁺; ¹H NMR (CDCl₃): δ 0.79 (t, *J* = 7.3 Hz, 3H, CH₂CH₂CH₂CH₂CH₃), 1.20-1.29 (m, 4H, CH₂CH₂CH₂CH₃), 2.41 (t, *J* = 7.3 Hz, 2H, CH₂C=C), 6.67-6.73, 6.79-6.86 (two m, 2H each, 4-fluorophenyl H-3, H-5), 6.94-7.27 (m, 9H, two 4-fluorophenyl H-2, H-6 and five phenyl hydrogens).

1,1-Di-(4-fluorophenyl)-2-(4-chlorosulfonylphenyl)prop-1-ene (18). Chlorosulfonic acid (1.10 mL, 16.3 mmol) was added slowly to a solution of the olefin **16** (1.0 g, 3.27 mmol) in CHCl₃ (55 mL). The reaction was allowed to proceed with stirring at 25°C for 2 hours, the reaction mixture was washed with aqueous HCl solution and then brine, and the organic fraction was dried (Na₂SO₄). Removal of the solvent *in vacuo* gave the product **18** as a brown syrup (34.2%) that was used in subsequent reactions without further purification. IR (film): 1506, 1380, 1224, 1158 cm⁻¹; ESI-MS: 405 [M+H]⁺; ¹H NMR (CDCl₃): δ 2.18 (s, 3H, *CH*₃C=C), 6.78-6.86, 6.94-6.99 (two m, 2H each, 4-fluorophenyl H-3, H-5), 7.05-7.37 (m, 6H, two 4-

fluorophenyl H-2, H-6 and sulfonylphenyl H-2, H-6), 7.86 (d, J = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di-(4-fluorophenyl)-2-(4-chlorosulfonylphenyl)hex-1-ene (19). Chlorosulfonation of **17**, using a procedure similar to that described for the synthesis of **18**, afforded **19** (43.1%) as a brown syrup; IR (film): 2958, 2927, 2872, 1509, 1388, 1166 cm⁻¹; ESI-MS: 447 [M+H]⁺; ¹H NMR (CDCl₃): δ 0.81 (t, J = 6.7 Hz, 3H, CH₂CH₂CH₂CH₂CH₃), 1.22-1.27 (m, 4H, CH₂CH₂CH₂CH₃), 2.47 (t, J = 6.7 Hz, 2H, CH₂C=C), 6.72-6.85, 6.93-6.98 (two m, 2H each, 4-fluorophenyl H-3, H-5), 7.05-7.34 (m, 6H, two 4-fluorophenyl H-2, H-6 and sulfonylphenyl H-2, H-6), 7.85 (dd, J = 6.7, 1.8 Hz, 2H, sulfonylphenyl H-3, H5).

4-Amylbenzenesulfonyl chloride (21). Chlorosulfonic acid (5.41 mL, 81 mmol) was added slowly to a solution of amylbenzene (**20**, 4g, 27 mmol) in CHCl₃ (27 mL). The reaction mixture was stirred at 25°C for 3 hours, slowly poured into ice-water (100 mL), and the mixture was extracted with EtOAc (3 x 100 mL). The combined organic extracts were washed with brine and the organic fraction was dried (Na₂SO₄). Removal of the solvent *in vacuo* gave a colorless oil which solidified upon standing in a refrigerator to provide the title compound **21** as a white solid (92.1%), mp 39-40°C (lit. mp 44-46°C; M. E. Neubert, S. J. Laskos, R. F. Griffith, M. E. Stahl and L. J. Maurer, *Molecular Crystals and Liquid Crystals*, 1979, **54**, 221); IR (film): 2963, 2927, 2860, 1380, 1174 cm⁻¹; ESI-MS: 247 [M+H]⁺; ¹H NMR (CDCl₃): δ 0.91 (t, *J* = 6.7 Hz, 3H, CH₂CH₂CH₂CH₂CH₂CH₃), 1.31-1.36 (m, 4H, CH₂CH₂CH₂CH₂CH₃), 1.64-1.69 (m, 2H, CH₂CH₂CH₂CH₂CH₃), 2.73 (t, *J* = 7.9 Hz, 2H, *CH*₂C=C), 7.42 (d, *J* = 7.9 Hz, 2H, H-3, H-5), 7.93 (d, *J* = 7.9 Hz, 2H, H-2, H-6).

Isopropyl 4-amylbenzenesulfonate (22). Compound **22**, prepared using a procedure similar to that described for the synthesis of **6**, was obtained as a yellowish oil (89.1%), IR (film): 2989, 2932, 2855, 1365, 1190 cm⁻¹; ESI-MS: 271 [M+H]⁺, 288 [M+NH₄]⁺, 293 [M+Na]⁺; ¹H NMR (CDCl₃): δ 0.90 (t, *J* = 7.3 Hz, 3H, CH₂CH₂CH₂CH₂CH₂CH₃), 1.28 (d, *J* = 6.1 Hz, 6H, CH(*CH₃*)₂), 1.31-1.36 (m, 4H, CH₂CH₂CH₂CH₂CH₃), 1.59-1.66 (m, 2H, CH₂CH₂CH₂CH₂CH₃), 2.69 (t, *J* = 7.3 Hz, 2H, CH₂C=C), 4.75 (heptet, *J* = 6.1 Hz, 1H, CH(CH₃)₂), 7.34 (d, *J* = 7.9 Hz, 2H, H-3, H-5), 7.81 (dd, *J* = 7.9, 1.8 Hz, 2H, H-2, H-6).

Isopropyl 4-pentanoylbenzenesulfonate (23). A solution of isopropyl 4amylbenzenesulfonate (**22**, 6.6 g, 24.4 mmol) in acetone (250 mL) was cooled to -78° C using a dry ice/acetone bath. KMnO₄ (38 g, 0.244 mol) and FeCl₃ (9.9 g, 61 mmol) were added, this mixture was stirred for 2h at -78°C, the reaction flask was removed from the cooling bath, the reaction mixture was allowed to warm gradually (~1 hour) to 25°C, and stirring was continued for an additional 1 hour at 25°C. The resulting suspension was filtered, the residue was washed with EtOAc (3 x 30 mL). The combined filtrate and washings were dried (Na₂SO₄), and the solvent was removed to give a residue that was purified by flash silica gel column chromatography using *n*-hexane:EtOAc (3:1, v/v) as eluent to afford the title compound **23** (2.9 g, 41.8%) as a yellowish oil. IR (film): 2962, 2874, 1707, 1361, 1186 cm⁻¹; ESI-MS: 285 [M+H]⁺; ¹H NMR (CDCl₃): δ 0.97 (t, *J* = 7.3 Hz, 3H, CH₂CH₂CH₂CH₃), 1.31 (d, *J* = 6.1 Hz, 6H, CH(*CH*₃)₂), 1.37-1.46 (m, 2H, CH₂CH₂CH₂CH₃), 1.69-1.79 (m, 2H, CH₂CH₂CH₂CH₃), 3.01 (t, *J* = 6.7 Hz, 2H, *CH*₂C=C), 4.82 (heptet, *J* = 6.1 Hz, 1H, *CH*(CH₃)₂), 8.02 (d, *J* = 7.9 Hz, 2H, H-2, H-6), 8.10 (dd, *J* = 7.9, 1.8 Hz, 2H, H-3, H-5).

1,1-Diphenyl-2-(4-isopropoxysulfonylphenyl)hex-1-ene (24). The title compound, prepared using a McMurry cross-coupling reaction of 23 with benzophenone, was obtained as a white solid (32.1%), mp 68-70 °C; IR (film): 2960, 2929, 2857, 1368, 1192 cm⁻¹; ESI-MS: 435 $[M+H]^+$; ¹H NMR (CDCl₃): δ 0.78 (t, J = 6.7 Hz, 3H, CH₂CH₂CH₂CH₃), 1.21 (d, J = 6.1 Hz, 6H, CH(*CH*₃)₂), 1.24-1.27 (m, 4H, CH₂CH₂CH₂CH₃), 2.47 (t, J = 6.7 Hz, 2H, *CH*₂C=C), 4.67 (heptet, J = 6.1 Hz, 1H, *CH*(CH₃)₂), 6.83-6.86 (m, 2H, phenyl hydrogens), 6.98-7.01 (m, 3H, phenyl hydrogens), 7.22-7.39 (m, 7H, phenyl hydrogens and sulfonylphenyl H-2, H-6), 7.70 (dd, J = 6.7, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Di(4-methylphenyl)-2-(4-isopropoxysulfonylphenyl)hex-1-ene (**25**). The title compound, prepared using a McMurry cross-coupling reaction of **23** with 4,4'-dimethylbenzophenone, was obtained (28.7%), mp 69-71°C; IR (film): 2962, 2926, 2869, 1372, 1186 cm⁻¹; ESI-MS: 463 [M+H]⁺, 480 [M+NH₄]⁺, 485 [M+Na]⁺; ¹H NMR (CDCl₃): δ 0.78 (t, *J* = 7.3 Hz, 3H, CH₂CH₂CH₂CH₃), 1.21 (d, *J* = 6.7 Hz, 6H, CH(*CH*₃)₂), 1.24-1.33 (m, 4H, CH₂*CH*₂*CH*₂CH₃), 2.18 (s, 3H, Ar*CH*₃), 2.37 (s, 3H, Ar*CH*₃), 2.47 (t, *J* = 7.3 Hz, 2H, *CH*₂C=C), 4.67 (heptet, *J* = 6.7 Hz, 1H, *CH*(CH₃)₂), 6.71, 6.79 (two d, *J* = 7.9 Hz, 2H each, tolyl H-3, H-5), 7.09-7.18 (m, 4H, two tolyl H-2, H-6), 7.25-7.28 (m, 2H, sulfonylphenyl H-2, H-6), 7.69 (dd, *J* = 7.9, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

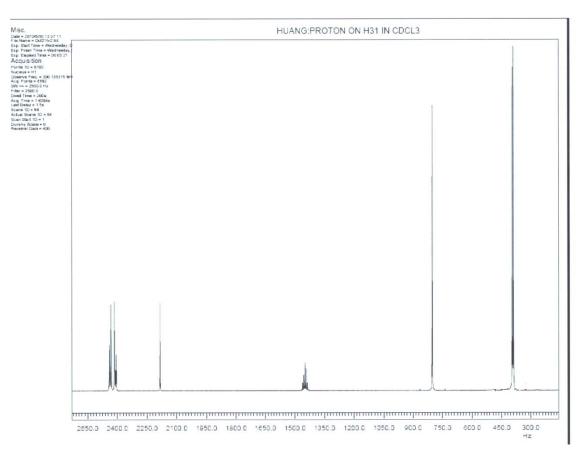
1,1-Diphenyl-2-(4-oxysulfonylphenyl)hex-1-ene sodium salt (26). Cleavage of the isopropyl sulfonate **24** with NaI, using the method described for the synthesis of **9**, afforded the title compound as a white solid (89.2%); mp > 300 °C; IR (KBr): 2970, 2929, 2856, 1206, 1134

cm⁻¹; ESI-MS: 437 [M+Na]⁺; ¹H NMR (DMSO-d₆): δ 0.71 (t, J = 6.7 Hz, 3H, CH₂CH₂CH₂CH₂CH₃), 1.13-1.23 (m, 4H, CH₂CH₂CH₂CH₃), 2.35 (t, J = 6.7 Hz, 2H, CH₂C=C), 6.87-6.91 (m, 2H, phenyl hydrogens), 6.99-7.09 (m, 5H, phenyl hydrogens), 7.21-7.30 (m, 5H, phenyl hydrogens and sulfonylphenyl H-2, H-6), 7.37 (d, J = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

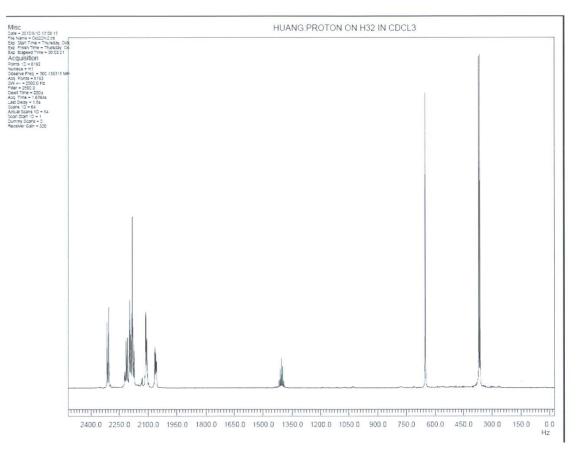
1,1-Di-(4-methylphenyl)-2-(4-oxysulfonylphenyl)hex-1-ene sodium salt (27). Cleavage of the isopropyl sulfonate **25** with NaI, using the method described for the synthesis of **9**, afforded the title compound **27** (86.8%) as a white solid, mp > 300 °C; IR (KBr): 2960, 2919, 2856, 1201, 1132 cm⁻¹; ESI-MS: 419 [M-Na]⁻; ¹H NMR (DMSO-d₆): δ 0.72 (t, J = 6.7 Hz, 3H, CH₂CH₂CH₂CH₃), 1.13-1.19 (m, 4H, CH₂CH₂CH₂CH₃), 2.13 (s, 3H, ArCH₃), 2.30 (s, 3H, ArCH₃), 2.32-2.35 (m, 2H, CH₂C=C), 6.72 and 6.85 (two d, J = 7.9 Hz, 2H each, tolyl H-3, H-5), 7.03-7.08 (m, 4H, two tolyl H-2, H-6), 7.17 (d, J = 7.9 Hz, 2H, sulfonylphenyl H-2, H-6), 7.37 (d, J = 7.9 Hz, 2H, sulfonylphenyl H-3, H-5).

1,1-Diphenyl-2-(4-chlorosulfonylphenyl)hex-1-ene (28). Reaction of **26** with SOCl₂, using the method described for the synthesis of **11**, furnished the title compound **28** as a brown syrup (88.9%); IR (film): 2962, 2926, 2858, 1382, 1175 cm⁻¹; ESI-MS: 411 [M+H]⁺; ¹H NMR (CDCl₃): δ 0.81 (t, J = 6.7 Hz, 3H, CH₂CH₂CH₂CH₂CH₃), 1.23-1.33 (m, 4H, CH₂CH₂CH₂CH₃), 2.50 (t, J = 6.7 Hz, 2H, CH_2 C=C), 6.84-6.87 (m, 2H, phenyl hydrogens), 7.05-7.07 (m, 3H, phenyl hydrogens), 7.24-7.41 (m, 7H, phenyl hydrogens and sulfonylphenyl H-2, H-6), 7.82 (dd, J = 7.9, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).

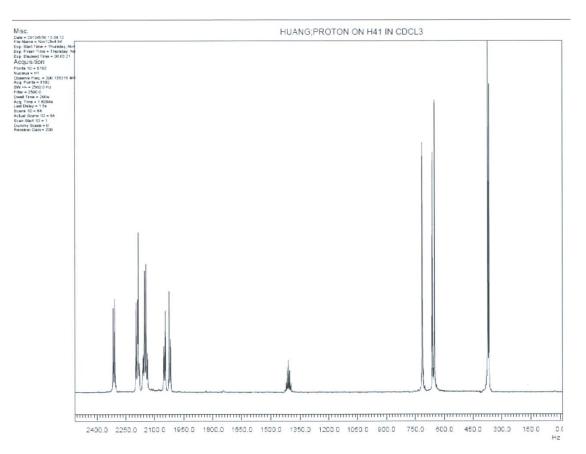
1,1-Di(4-methylphenyl)-2-(4-chlorosulfonylphenyl)hex-1-ene (29). Reaction of **27** with SOCl₂, using the method described for the synthesis of **11**, provided the title compound **29** (85.5%) as a brown solid, mp 149-150°C; IR (film): 2956, 2915, 2858, 1383, 1178 cm⁻¹; ESI-MS: 439 [M+H]⁺; ¹H NMR (CDCl₃): δ 081 (t, J = 7.3 Hz, 3H, CH₂CH₂CH₂CH₂CH₃), 1.25-1.29 (m, 4H, CH₂CH₂CH₂CH₃), 2.22 (s, 3H, ArCH₃), 2.38 (s, 3H, ArCH₃), 2.50 (t, J = 7.9 Hz, 2H, CH_2 C=C), 6.72, 6.85 (two d, J = 7.9 Hz, 2H each, tolyl H-3, H-5), 7.10-7.17 (m, 4H, two tolyl H-2, H-6), 7.34 (d, J = 8.5 Hz, 2H, sulfonylphenyl H-2, H-6), 7.82 (dd, J = 7.9, 1.8 Hz, 2H, sulfonylphenyl H-3, H-5).



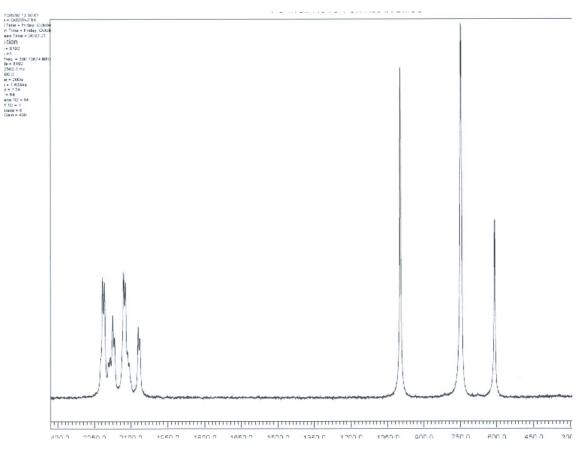
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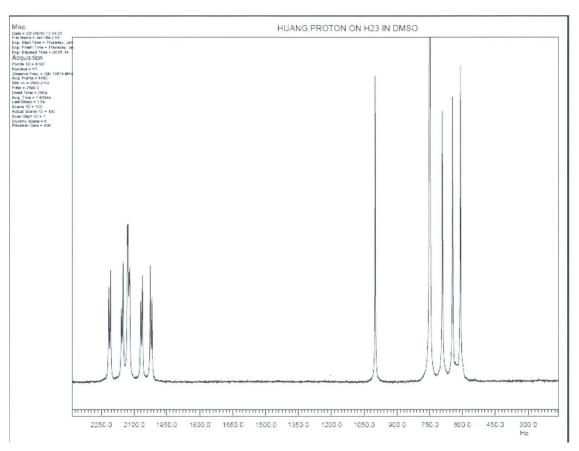
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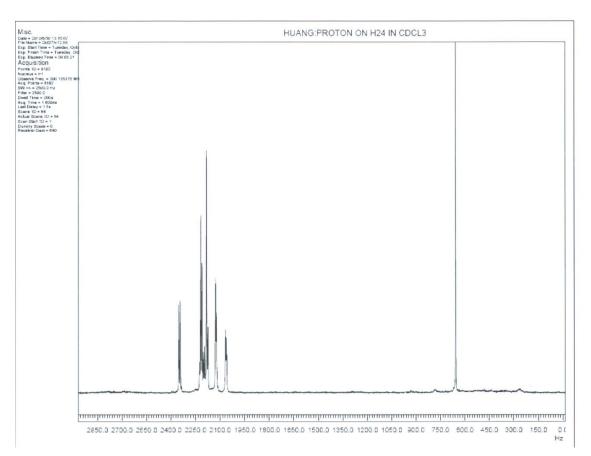
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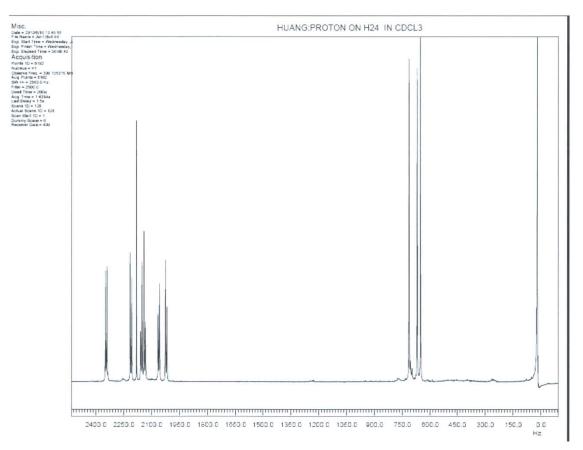
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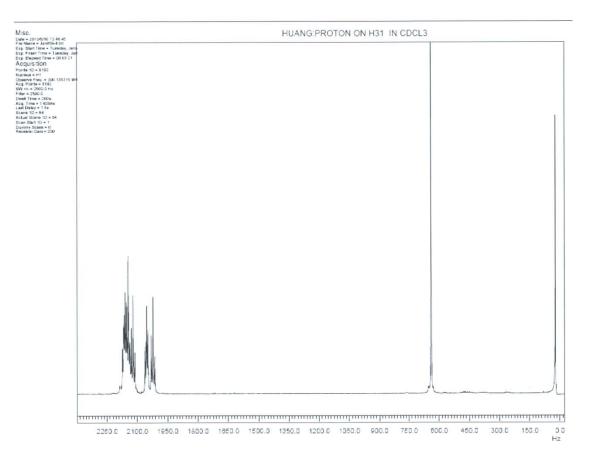
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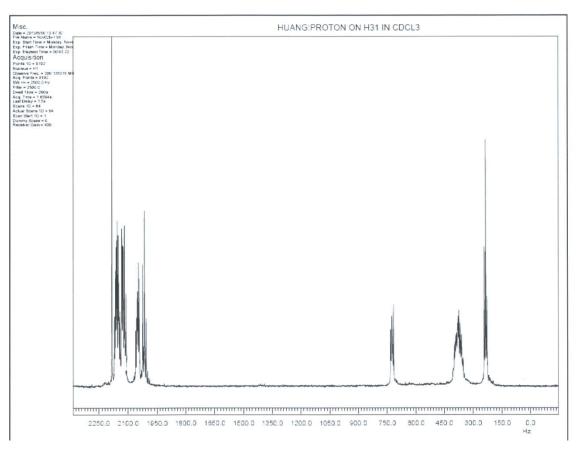
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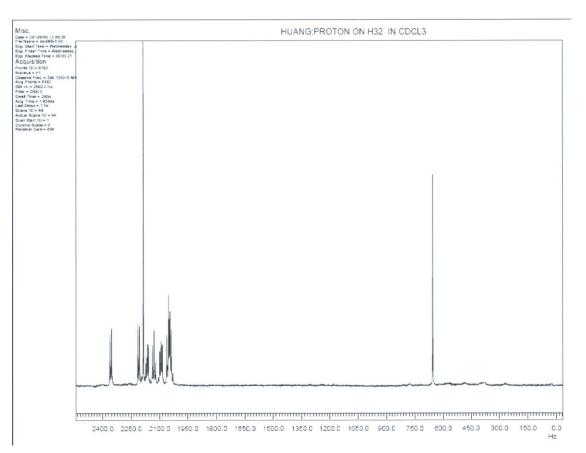
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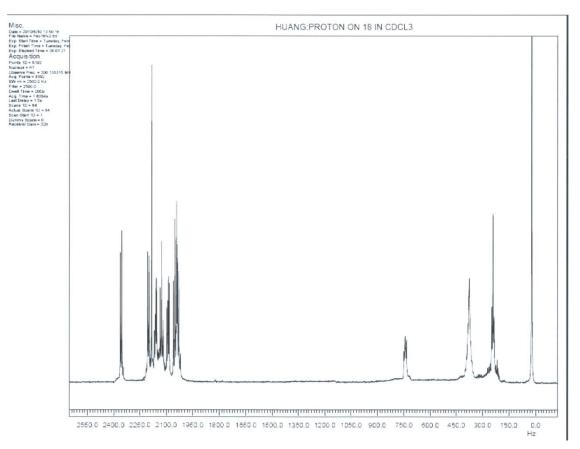
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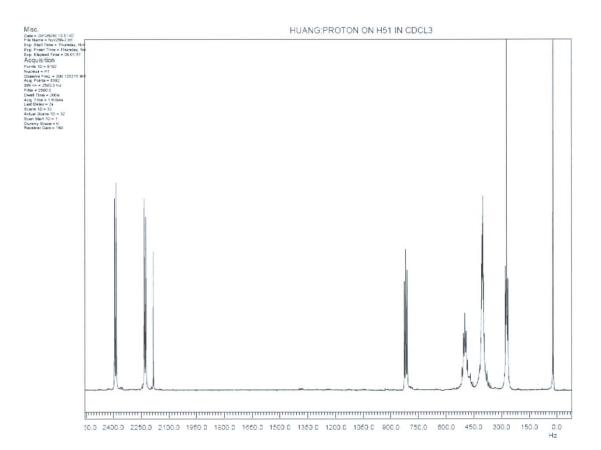
Compound 17



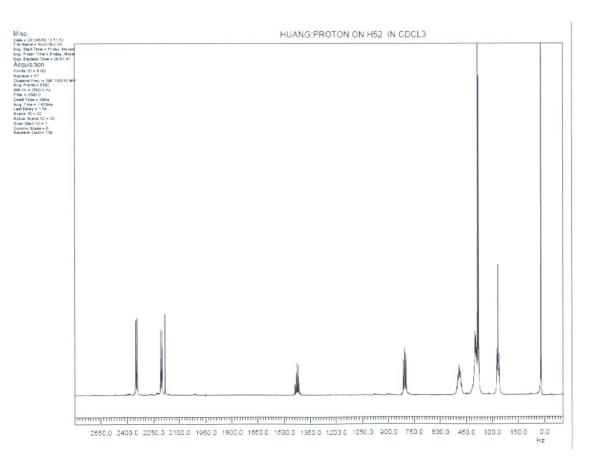
Compound 18



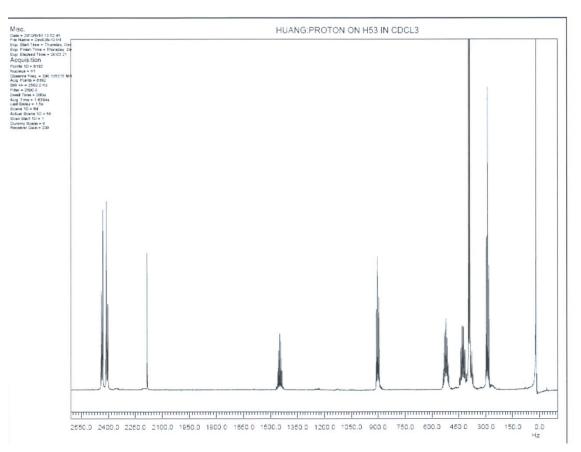
Compound 19



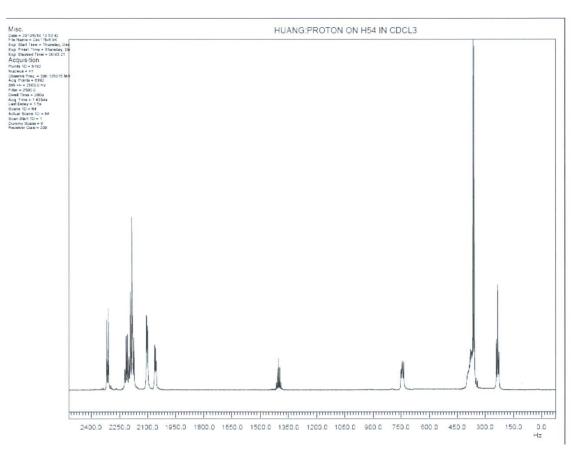
Compound 21



Compound 22

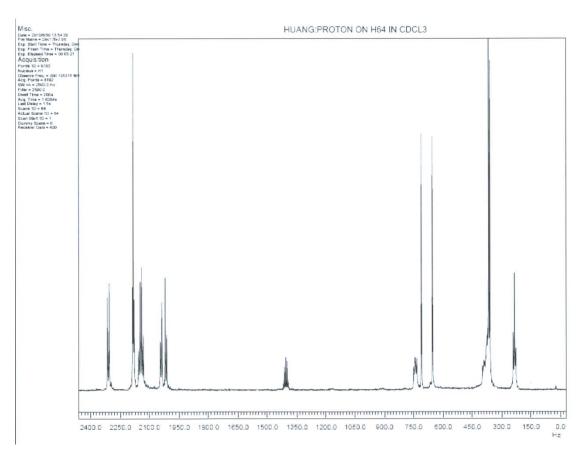


Compound 23



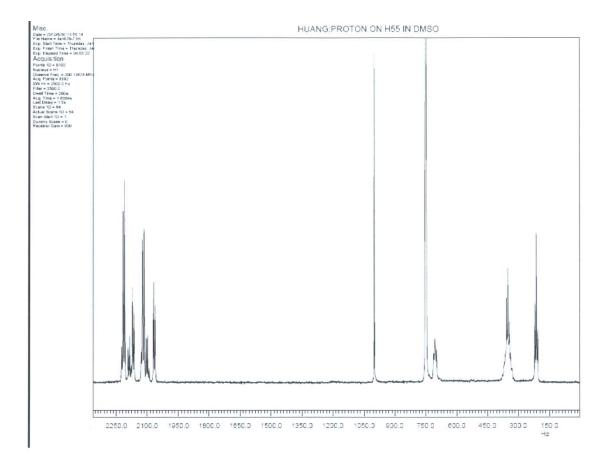
Compound 24

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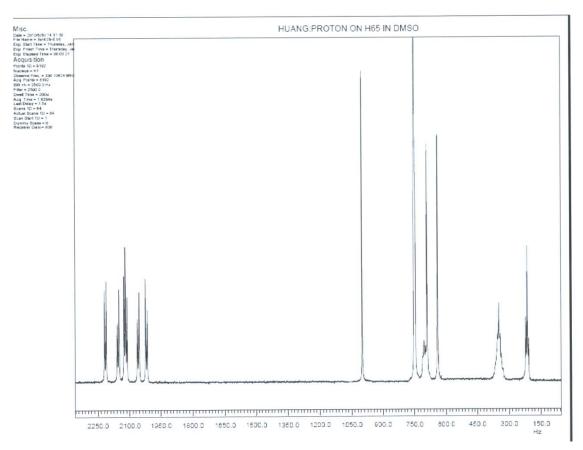


Compound 25

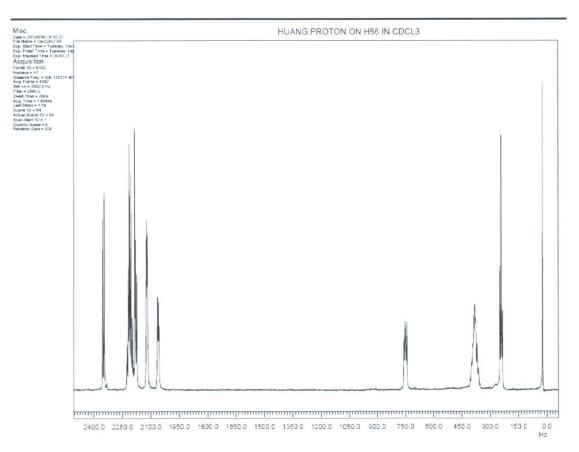
Supplementary Material (ESI) for Organic & Biomolecular Chemistry This journal is (c) The Royal Society of Chemistry 2010



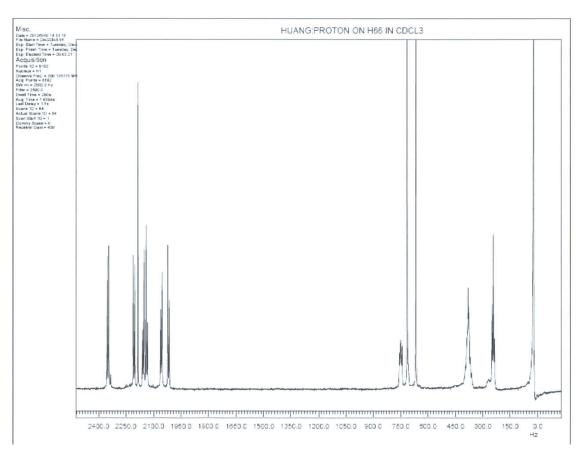
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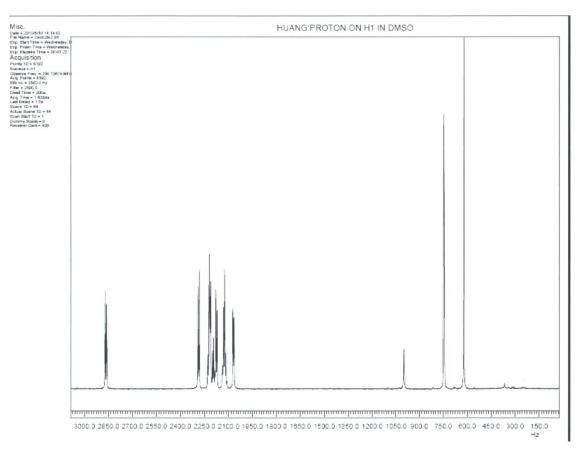
Compound 27



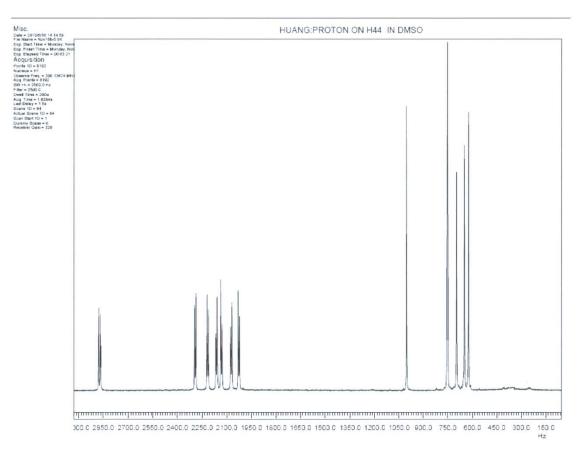
Compound 28



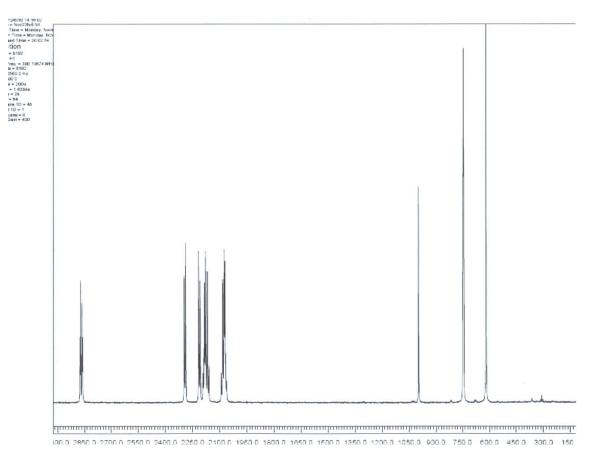
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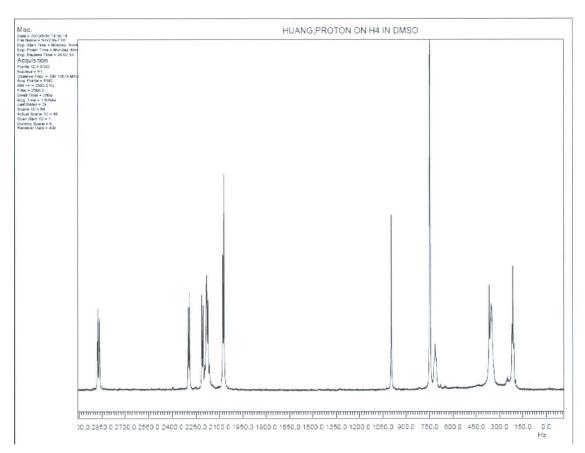
Compound 13a



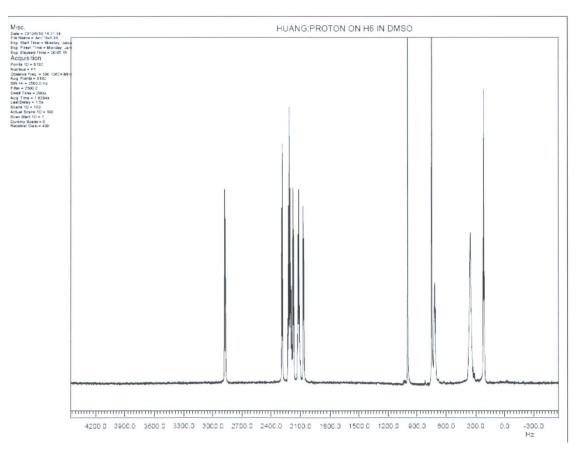
Compound 13b



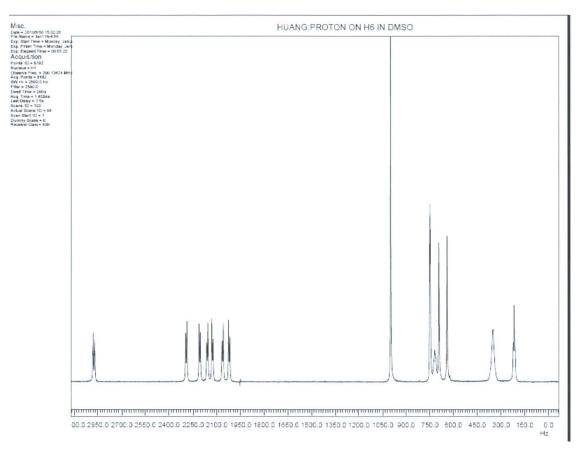
Compound 13c



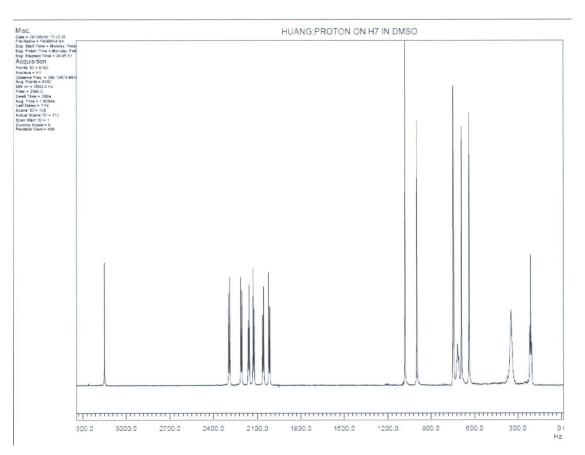
Compound 13d



Compound 13e



Compound 13f



Compound 13g