SUPPORTING INFORMATION

General:
^{1}H (400 MHz), ^{13}C (100 MHz), ^{31}P (162 MHz) and ^{19}F (36.5 MHz) NMR spectra were recorded on a Bruker ARX400 spectrometer with complete proton decoupling for nucleus other than ^{1}H. Chemical shifts are reported in ppm from tetramethylsilane with the solvent resonance as the internal standard ($CDCl_3$, ^{1}H: δ 7.27 ppm, ^{13}C: δ 77.0 ppm and $(CD_3)_2CO$: ^{1}H: δ 2.05 ppm, ^{13}C: δ 205.1 ppm). Data are reported as follows: chemical shift (δ) in ppm, multiplicity (s = singlet, d = doublet, t = triplet, hept = heptuplet, br = broad, m = multiplet), coupling constants (Hz) and integration. High-resolution mass spectra (HRMS) were recorded at the Centre Régional de Mesures Physiques de l'Ouest (CRMPO), Université de Rennes 1 on a Micromass ZABSpecTOF instrument. Elemental analyses were also performed at the CRMPO.

Materials:
All non-aqueous reactions were performed under an argon atmosphere using oven-dried glassware. Toluene was distilled from sodium metal under nitrogen. Tetrahydrofuran and diethyl ether were distilled from sodium metal/benzophenone ketyl under nitrogen. Dichloromethane and triethylamine were distilled from calcium hydride under nitrogen. Dimethylformamide was distilled from phosphorous pentoxide under vacuum and stored under argon. Dienes **11**[1], **13**[2], **15**[3], **17**[4], **21**[5] and **23**[6] were synthesized and purified according to literature procedures. BMI.PF_6 was prepared and purified as reported previously[7] and dried overnight at 70°C under high vacuum to remove water traces[8]. All others chemical reagents and solvents were obtained from commercial sources and used without further purification. Analytical TLC were performed on Merck silica gel $60F_{254}$ plates, and visualized under UV-light. Chromatographic purifications were performed on a column with 230-400 mesh silica gel (Merck 9385) using the indicated solvent system.

3-(4-isopropoxy-phenyl)-propionic acid methyl ester: To a suspension of sodium hydride (1.27 g, 31.8 mmol, 1.1 equiv) in dry tetrahydrofuran (80 mL) was added at 0°C a solution of 3-(4-hydroxy-phenyl)-propionic acid methyl ester **6** (5.2 g, 28.9 mmol) in dry tetrahydrofuran (80 mL). After gas evolution, dry dimethylformamide (80 mL) and isopropyl bromide (3.2 mL, 31.8 mmol, 1.1 equiv) were syringed into the reaction mixture. The resulting mixture was stirred at room temperature for 2 h. Sodium hydride (1.27 g, 31.8 mmol, 1.1 equiv) and isopropyl bromide (3.2 mL, 31.8 mmol, 1.1 equiv) were added into the reaction mixture followed by a stirring of 2 hours to complete the reaction. The mixture was concentrated under vacuum and ethyl acetate (100 mL) was added. The organic layer was washed 4 times with a saturated solution of sodium hydrogenocarbonate and one time with brine, dried over magnesium sulfate, filtered and concentrated. Purification by silica gel chromatography (pentane/ethyl acetate, 8/2) afforded the desired product as a colorless oil (5.76 g, 26.0 mmol, 90 %). ^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.34 (d, J = 6.1 Hz, 6H), 2.62 (t, J = 7.9 Hz, 2H), 2.90 (t, J = 7.9 Hz, 2H), 3.69 (s, 3H), 4.52 (hept, J = 6.1 Hz, 1H), 6.83 (d, J = 8.7 Hz, 2H), 7.11 (d, J = 8.7 Hz, 2H). ^{13}C NMR (100 MHz, $CDCl_3$): δ (ppm): 22.5 (2C), 30.5, 36.4, 52.0, 70.2, 116.3 (2C), 129.6 (2C), 132.8, 156.8, 173.8. HRMS Calculated for $C_{13}H_{18}O_3$: 222.1256. Found: 222.1250.

3-(3-bromo-4-isopropoxy-phenyl)-propionic acid methyl ester: To a solution of 3-(4-isopropoxy-phenyl)-propionic acid methyl ester (3.53 g, 15.9 mmol) in dry dichloromethane (80 mL) was added acetic acid (36 µL, 0.64 mmol, 0.04 equiv). Bromine (860 µL, 16.7 mmol, 1.05

equiv) was then slowly added dropwise at room temperature, forming a red solution. Over the course of 1.5 h the mixture gradually turned pale yellow. The reaction was then quenched with a saturated sodium thiosulfate solution (20 mL). After dilution with water, the organic layer was separated. The aqueous layer was extracted with diethyl ether. The combined organic layers were dried over magnesium sulfate, filtrated and concentrated to a colorless oil (4.7 g, 15.6 mmol, 98%). ^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.36 (d, J = 6.1 Hz, 6H), 2.59 (t, J = 7.9 Hz, 2H), 2.86 (t, J = 7.9 Hz, 2H), 2.67 (s, 3H), 4.50 (hept, J = 6.1 Hz, 1H), 6.83 (d, J = 8.4 Hz, 1H), 7.06 (dd, J = 2.0, 8.4 Hz, 1H), 7.38 (d, J = 2.0 Hz, 1H). ^{13}C NMR (100 MHz, $CDCl_3$): δ (ppm): 22.5 (2C), 30.1, 36.1, 52.0, 72.6, 114.1, 116.4, 128.5, 133.5, 134.7, 153.4, 173.5. HRMS Calculated for $C_{13}H_{17}O_3Br$: 300.0361. Found: 300.0348.

3-(3-bromo-4-isopropoxy-phenyl)-propan-1-ol (7): To a solution of 3-(3-bromo-4-isopropoxy-phenyl)-propionic acid methyl ester (4.37 g ,14.5 mmol) in dry tetrahydrofuran (200 mL) was added, at 0°C, lithium aluminum hydride (551 mg, 14.5 mmol, 1 equiv). The mixture was stirred for 45 min, at 0°C. The reaction was then quenched with water (550 µL), NaOH 15% in water (550 µL) and water (1.65 mL). The mixture was filtrated on a plug of celite and the cake was washed with dichloromethane and hot tetrahydrofuran. The organic layer was evaporated off under vacuum, diluted with dichloromethane, washed with brine, dried over magnesium sulfate and concentrated. A purification by silica gel chromatography using pentane/ethyl acetate (8/2) as the eluent afforded the desired product as a colorless oil (3.76 g, 13.8 mmol, 95%). ^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.37 (d, J = 6.1 Hz, 6H), 1.83 (tt, J = 6.4, 7.4 Hz, 2H), 1.88 (s, br, 1H), 2.62 (t, J = 7.4 Hz, 2H), 3.65 (t, J = 6.4 Hz, 2H), 4.50 (hept, J = 6.1 Hz, 1H), 6.85 (d, J = 8.4 Hz, 1H), 7.06 (dd, J = 2.0, 8.4 Hz, 1H), 7.38 (d, J = 2.0 Hz, 1H). ^{13}C NMR (100 MHz, $CDCl_3$): δ (ppm): 22.0 (2C), 30.7, 34.0, 61.8, 72.3, 113.6, 116.1, 128.1, 133.1, 135.7, 152.6. HRMS Calculated for $C_{12}H_{17}O_2Br$: 272.0412. Found: 272.0404.

3-(4-isopropoxy-3-vinyl-phenyl)-propan-1-ol: A Schlenk flask was charged with dry toluene (30 mL) and tetrakis(triphenylphosphine)palladium (292 mg, 0.25 mmol, 0.05 equiv). The mixture was degassed and 3-(3-bromo-4-isopropoxy-phenyl)-propan-1-ol 7 (1.25 g, 4.58 mmol) diluted in dry toluene (5 mL) was added dropwise through a syringe. The resulting mixture was stirred 15 min before adding tributylvinylstannane (2.2 mL, 6.87 mmol, 1.5 equiv). The flask was heated at 110°C overnight. After cooling to room temperature, the mixture was filtrated on a plug of celite and the cake was washed with diethyl ether. The solvent was evaporated off under vacuum and a purification by silica gel chromatography using pentane/ethyl acetate (8/2) as the eluent afforded the desired product as a colorless oil (910 mg, 4.17 mmol, 91%). ^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.37 (d, J = 6.1 Hz, 6H), 1.89 (tt, J = 6.4, 7.4 Hz, 2H), 2.00 (s, br, 1H), 2.67 (t, J = 7.4 Hz, 2H), 3.68 (t, J = 6.4 Hz, 2H), 4.51 (hept, J = 6.1 Hz, 1H), 5.25 (d, J = 11.2 Hz, 1H), 5.76 (d, J = 17.8 Hz, 1H), 6.83 (d, J = 8.4 Hz, 1H), 7.04-7.11 (m, 2H), 7.34 (d, J = 2.0 Hz, 1H). ^{13}C NMR (100 MHz, $CDCl_3$): δ (ppm): 22.7 (2C), 31.7, 34.8, 62.6, 71.5, 114.2, 115.0, 126.8, 128.2, 129.0, 132.4, 134.3, 153.8. HRMS Calculated for $C_{14}H_{20}O_2$: 220.1463. Found: 220.1456.

Methanesulfonic acid 3-(4-isopropoxy-3-vinyl-phenyl)-propyl ester: To a solution of 3-(4-isopropoxy-3-vinyl-phenyl)-propan-1-ol (1.21 g, 5.51 mmol) and triethylamine (1.15 mL, 8.27 mmol, 1.2 equiv) in dry dichloromethane (30 mL) was added, at 0°C, methanesulfonyl chloride (640 µL, 8.27 mmol, 1.5 equiv). The reaction mixture was stirred for 3.5 h at room temperature before diluting with dichloromethane. The organic phase was washed four times with a 5 % citric

acid solution, dried over sodium sulfate and concentrated to a yellow oil. The product was used without further purification in the following reaction. ^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.36 (d, J = 5.8 Hz, 6H), 2.08 (tt, J = 6.0, 7.6 Hz, 2H), 2.71 (t, J = 7.6 Hz, 2H), 3.02 (s, 3H), 4.25 (t, J = 6.0 Hz, 2H), 4.52 (s, hept, J = 5.8 Hz, 1H), 5.38 (dd, J = 1.5, 11.2 Hz, 1H), 5.75 (dd, J = 1.3, 17.8 Hz, 1H), 6.84 (d, J = 8.4 Hz, 1H), 7.05 (m, 2H), 7.30 (m, 1H).

4-(3-bromo-propyl)-1-isopropoxy-2-vinyl-benzene (8): To a crude mixture of methanesulfonic acid 3-(4-isopropoxy-3-vinyl-phenyl)-propyl ester (1.64 g, 5.5 mmol) in tetrahydrofuran (20 mL) and dimethylformamide (8 mL) was added lithium bromide (960 mg, 11 mmol, 2 equiv) in one portion. The mixture was stirred overnight. After evaporation of the solvent, the residue was diluted in ethyl acetate. The organic layer was washed three times with a saturated sodium hydrogenocarbonate solution then with brine, dried over magnesium sulfate, filtrated and concentrated. A purification by silica gel chromatography using pentane/ethyl acetate (98/2) as the eluent afforded the desired product as a colorless oil (1.16 g, 4.1 mmol, 74 % (two steps)).^{1}H NMR (400 MHz, $CDCl_3$): δ (ppm): 1.38 (d, J = 6.1 Hz, 6H), 2.18 (tt, J = 6.6, 7.3Hz, 2H), 2.75 (t, J = 7.3 Hz, 2H), 3.43 (t, J = 6.6 Hz, 2H), 4.53 (hept, J = 6.1 Hz, 1H), 5.27 (dd, J = 1.5, 11.2 Hz, 1H), 5.77 (dd, J = 1.5, 17.8 Hz, 1H), 6.85 (d, J = 8.4 Hz, 1H), 7.07 (m, 2H), 7.31 (m, 1H) ; ^{13}C NMR (100 MHz, $CDCl_3$): δ (ppm): 22.7 (2C), 33.5, 33.7, 71.4, 113.9, 114.4, 126.5, 127.7, 128.5, 131.9, 132.4, 133.7, 153.6. HRMS Calculated for $C_{14}H_{19}OBr$: 282.0619. Found: 282.0610.

1-[3-(4-isopropoxy-3-vinyl-phenyl)-propyl]-3-methyl-3H-imidazol-1-ium hexafluoro phosphate (9): A 10 ml round bottomed flask equipped with a condenser was charged with 4-(3-bromo-propyl)-1-isopropoxy-2-vinyl-benzene **8** (1.1 g, 3.9 mmol), methylimidazole (623 µL, 7.8 mmol, 2 equiv) and dry toluene (3.9 mL). The mixture was stirred overnight at 100°C then the solvent was evaporated off. The residue was dissolved in distilled water (30 ml). Hexafluorophosphoric acid (10 mL, 60 % in water) was slowly added dropwise. After 10 min stirring, dichloromethane and brine were added. The organic phase was washed with brine until to reach a neutral pH, dried over magnesium sulfate, filtrated and concentrated. A purification by silica gel chromatography using dichloromethane/acetone (3/1) as the eluent afforded the desired product as a colorless oil (1.47 g, 3.41 mmol, 87 % (two steps)). ^{1}H NMR (400 MHz, $(CD_3)_2CO$)): δ (ppm): 1.29 (d, J = 6.1 Hz, 6H), 2.09 (tt, J = 7.4 Hz, 2H), 2.56 (t, J = 7.4 Hz, 2H), 3.77 (s, 3H), 4.09 (t, J = 7.2 Hz, 2H), 4.46 (hept, J = 6.0 Hz, 1H), 5.19 (d, J = 11.4 Hz, 1H), 5.75 (d, J = 17.8 Hz, 1H), 6.78 (d, J = 8.4 Hz, 1H), 6.98 (m, 2H), 7.17 (m, 2H), 7.25 (m, 1H), 8.28 (s, 1H). ^{13}C NMR (100 MHz, $(CD_3)_2CO$): δ (ppm): 21.0, 21.1, 30.3, 30.4, 35.0, 48.5, 70.0, 113.2, 113.6, 121.0, 122.5, 125.1, 126.6, 127.7, 130.5, 130.9, 134.6, 152.6. ^{19}F NMR (376 MHz, $(CD_3)_2CO$): δ (ppm): -72.3 (d, J = 711.1 Hz). ^{31}P NMR (162 MHz, $(CD_3)_2CO$): δ (ppm): -143.1 (hept, J = 712.8 Hz). HRMS Calculated for $C_{18}H_{25}N_2O$: 285.1967. Found: 285.1957.

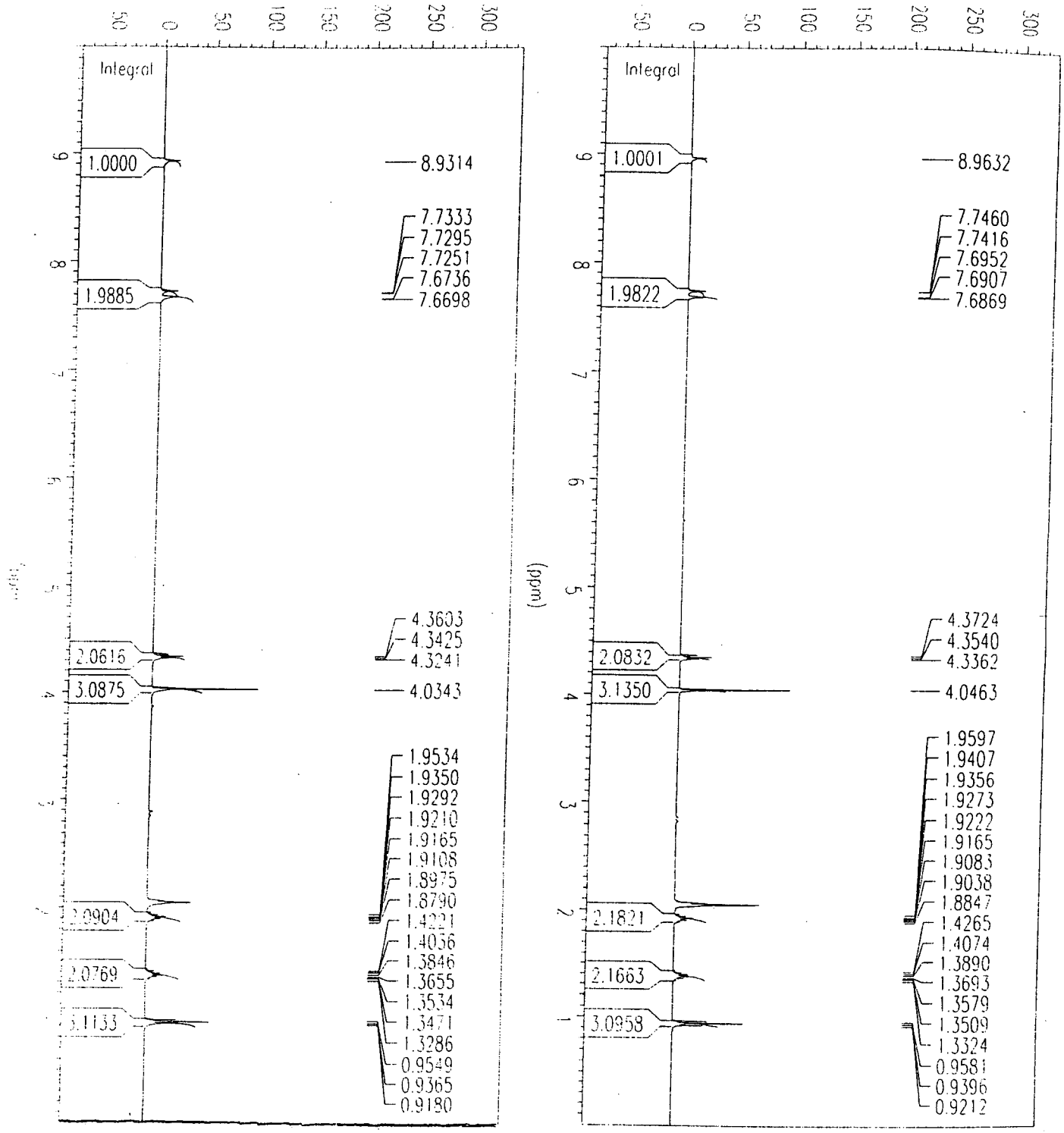
Ionic liquid-supported catalyst (10): In a Schlenk apparatus were introduced copper (I) chloride (49 mg, 0.5 mmol, 1.25 equiv) and Grubbs catalyst **1** (494 mg, 0.6 mmol, 1.5 equiv). Three degassing (vacuum/argon) were performed and the 1-[3-(4-Isopropoxy-3-vinyl-phenyl)-propyl]-3-methyl-3H-imidazol-1-ium hexafluorophosphate **9** (172 mg, 0.4 mmol) in solution in dry dichloromethane (8 mL) was syringed into the reaction mixture. The resulting solution was again degassed three times and stirred for three hours at room temperature. The solvent was evaporated off under vacuum, the residue was dissolved in dry acetone (8 mL). The excess of **1** was removed by filtration and washed with acetone (8 mL). After concentration, the catalyst was precipitated in a 1/1 pentane/dichloromethane mixture (8 mL), filtrated, washed with the same mixture (8 mL)

and dried under vacuum to afford a brown solid (270 mg, 0.31 mmol, 78 %). ^{1}H NMR (400 MHz, $(CD_3)_2CO$): δ (ppm): 1.30 (m, 11H), 1.70-1.90 (m, 23H), 2.40 (m, 5H), 2.90 (m, 4H), 4.01 (s, 3H) 4.50 (t, J = 7.0 Hz, 2H), 5.37 (hept, J = 7.7 Hz, 1H), 7.28 (d, J = 7.9 Hz, 1H), 7.62 (d, J = 8.6 Hz, 1H), 7.68 (m, 2H), 7.81 (m, 1H), 9.00 (s, 1H), 17.39 (d, J = 4.9 Hz, 1H). ^{13}C NMR (100 MHz, $(CD_3)_2CO$): δ (ppm): 22.1, 22.4, 26.4 (C), 27.7 (C), 28.0 (C), 28.7 (C), 29.5, 31.2, 33.5 (C), 33.8 (C), 36.1, 46.8, 69.9, 113.6, 122.4, 124.3, 131.4, 137.2, 137.5, 137.7, 143.3, 146.9. ^{19}F NMR (376 MHz, $(CD_3)_2CO$): δ (ppm): -72.9 (d, J = 708.0 Hz). ^{31}P NMR (162 MHz, $(CD_3)_2CO$): δ (ppm): -143.0 (hept, J = 706.3 Hz), 60.3 (s). HRMS Calculated for $C_{35}H_{56}N_2OCl_2PRu$: 723.2551. Found: 723.2556. Elemental analysis Calculated for $C_{35}H_{56}N_2OF_6Cl_2P_2Ru$: C, 48.39; H, 6.50; N, 3.22. Found: C, 48.14; H, 6.57; N, 3.37.

General procedure for RCM reactions in BMI.PF_6:
BMI.PF_6 (5 mL) was introduced in a Schlenk flask and dried 2 hours under vacuum at 70°C. The ionic liquid-supported catalyst **10** (21.7 mg, 0.025 mmol, 0.025 equiv) was added and the mixture was stirred until the catalyst was dissolved. The diene (1 mmol, c = 0.2 M) was then introduced into the reaction mixture and heated at 60°C[9] for 45 minutes (dienes **11**, **13** and **15**), 2 hours (dienes **19**, **21** and **23**) or 4 hours (diene **17**). At the end of the reaction, the mixture was cooled and the cyclized product was obtained by extraction with dry toluene (4 x 10 mL). The solvent was evaporated to afford the crude product. All spectral and analytical data are in full agreement with those reported in the literature. Very small amounts of BMI.PF_6 were detected in the NMR spectrum of the crude product and can be easily removed by a simple filtration onto a plug of silica gel using pentane/ethyl acetate (9/1) as the eluent.

Procedure for recover the BMI.PF_6:
The ionic liquid BMI.PF_6 containing the decomposed IL-catalyst (5mL) was dissolved in 10 mL of dichloroethane. Black carbon (500 mg) was added and the resulting mixture was refluxed for 12 h. The mixture was cooled to room temperature and then filtered onto a plug of celite. The solvent was removed to afford the pure BMI.PF_6 (see NMR spectra) as a colorless oil which was finally dried for 4h at 70°C under vacuum. This recovered BMI.PF_6 was used in a RCM reaction with a new loading of IL-catalyst **10** and substrate without lost of performance compared to the fresh one.

(1) Riggi, I. ; De Surzur, J.-M. ; Bertrand M. *Tetrahedron*, **1988**, 7119-7126.
(2) Garst, M. E. ; Bonfiglio, J. N. ; Marks, J. *J. Org. Chem.*, **1982**, 1494-1500.
(3) Yao, Q. ; *Angew. Chem. Int. Ed.*, **2000**, 3896-3898.
(4) Gibson, S. E.; Swamy, V. M. *Advanced Synthesis & Catalysis* **2002**, 619-621.
(5) Chang, H. ; Grubbs, R. H. *J. Org. Chem.*, **1998**, 864-866.
(6) Kim, S.-H. ; Zuercher, W. J. ; Bowden, N. B. ; Grubbs, R. H. *J. Org. Chem.*, **1996**, 1073-1081.
(7) Huddleston, J. G. ; Willauer, H. D. ; Swatloski, R. P. ; Visser A. E. ; Rogers, R. D. *Chem. Commun.*, **1998**, 1765-1766.
(8) Wasserscheid, P. ; Weldon, T. (Eds) *Ionic Liquids in Synthesis*, Wiley-VCH, **2003**, chapter 2, 19.
(9) At room temperature and up to 40°C, low conversions were obtained after 45 min due to the high viscosity of BMI.PF_6, and the best results of RCM were obtained at 60°C.



Recovered BMI.PF$_6$

Fresh BMI.PF$_6$

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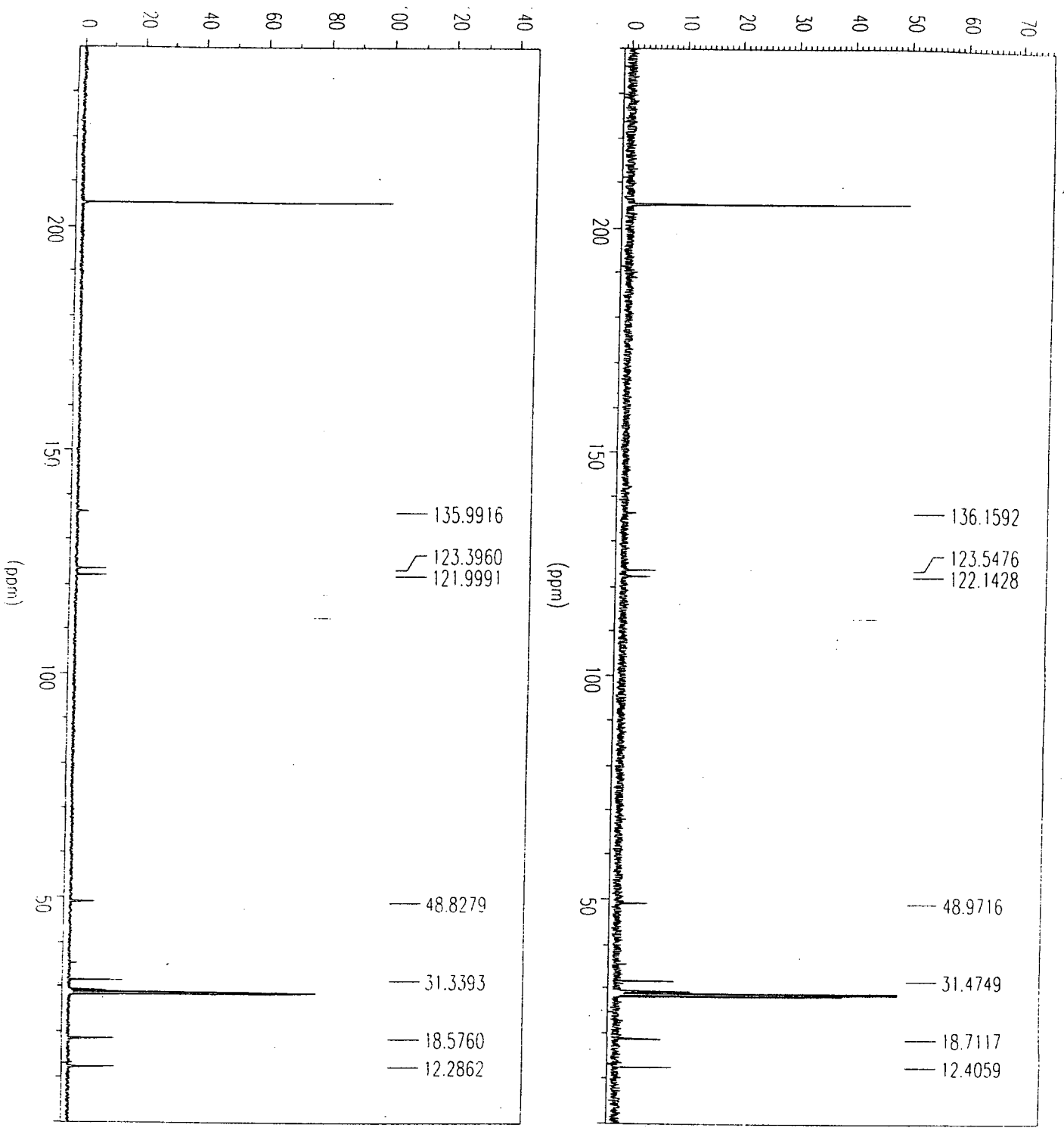
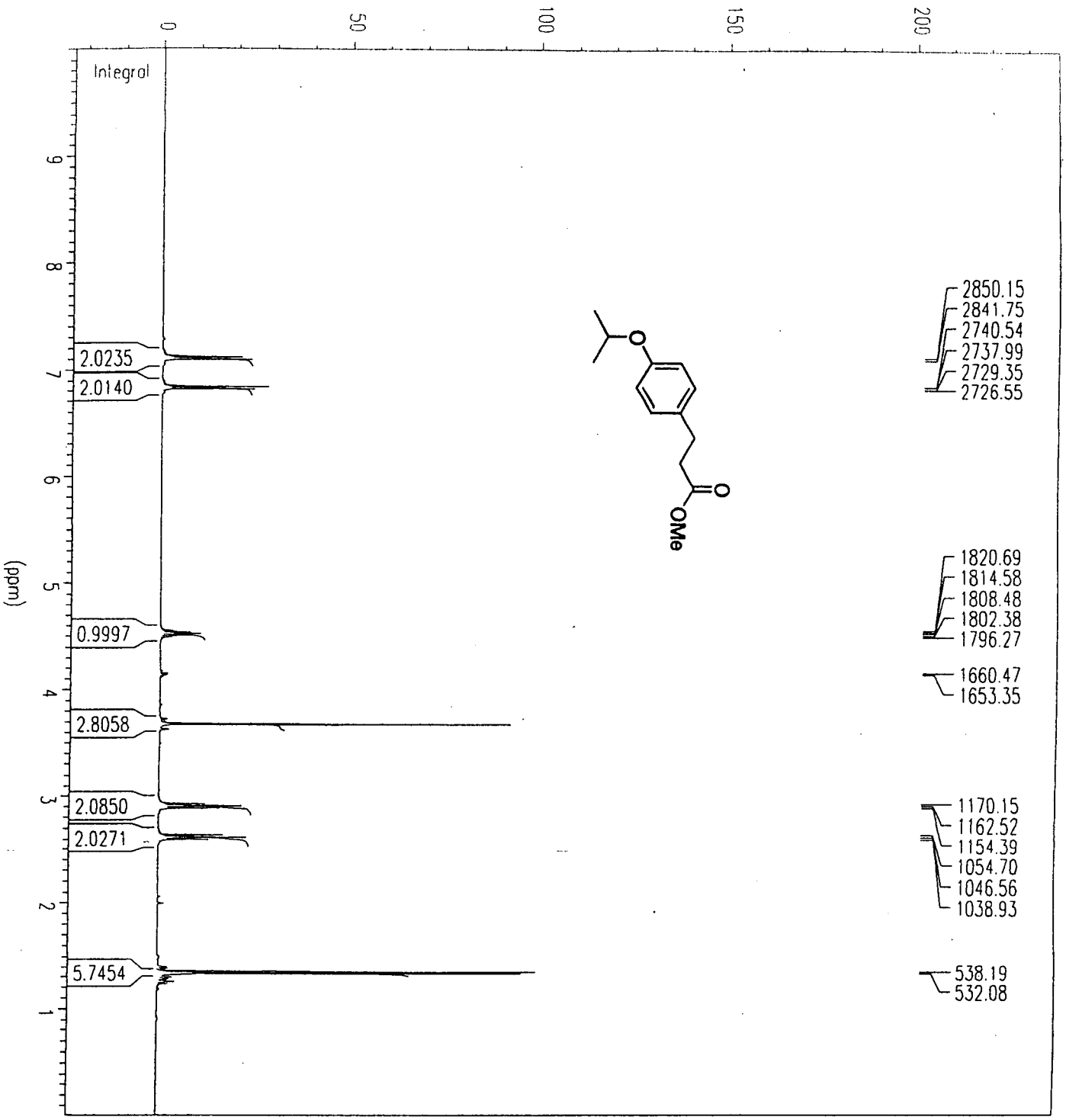
Solvent : Aceton d





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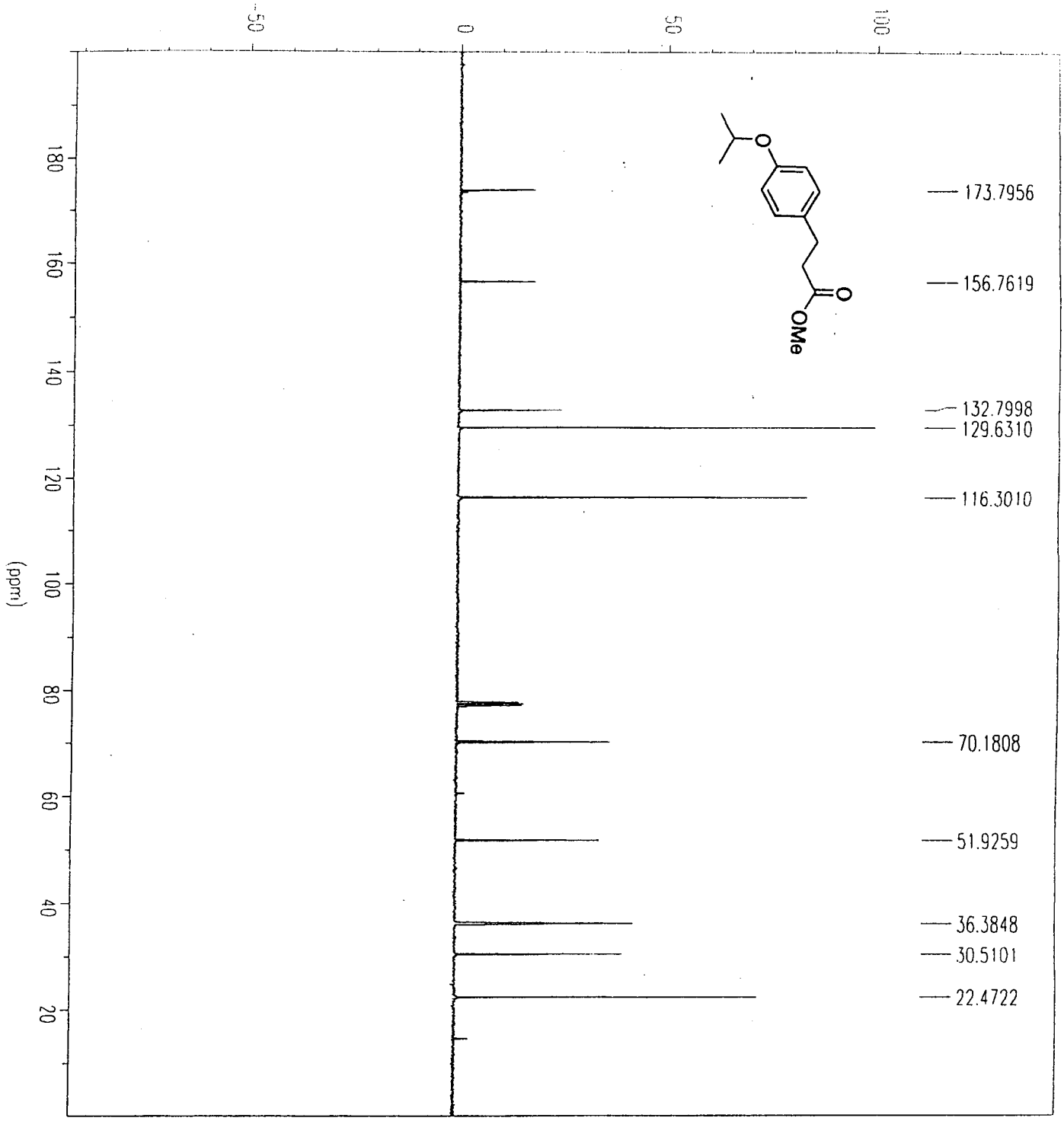

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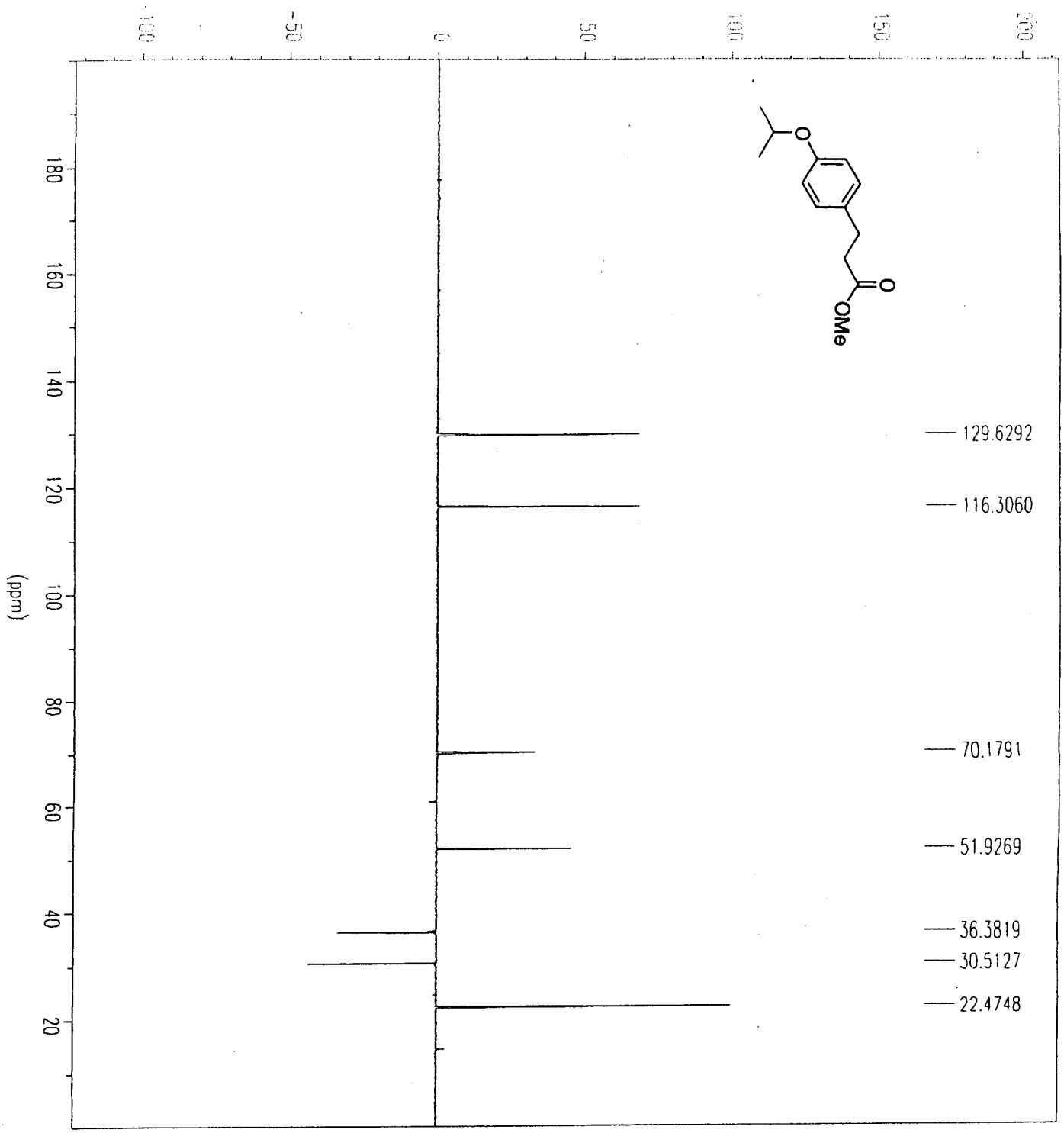

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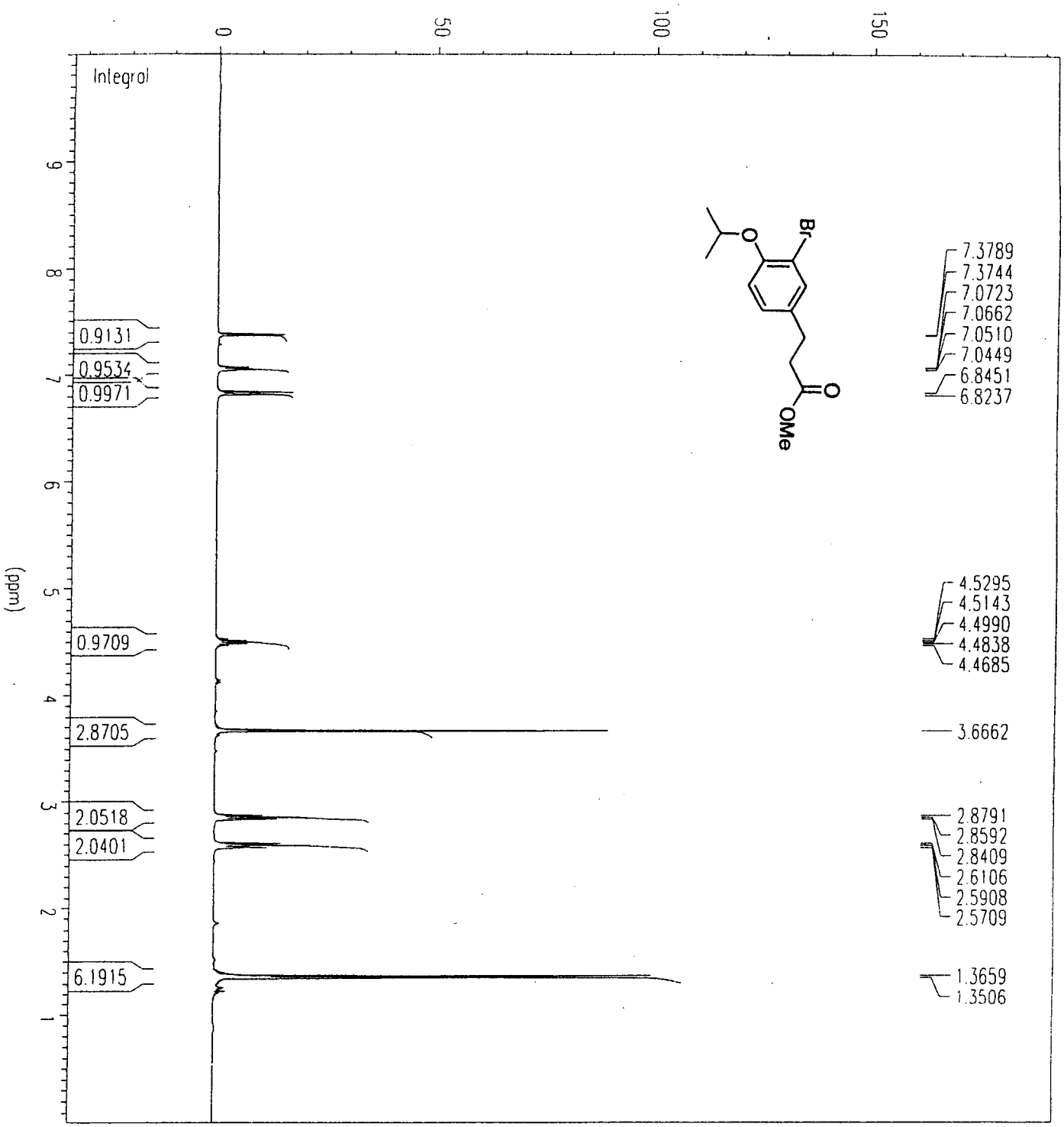

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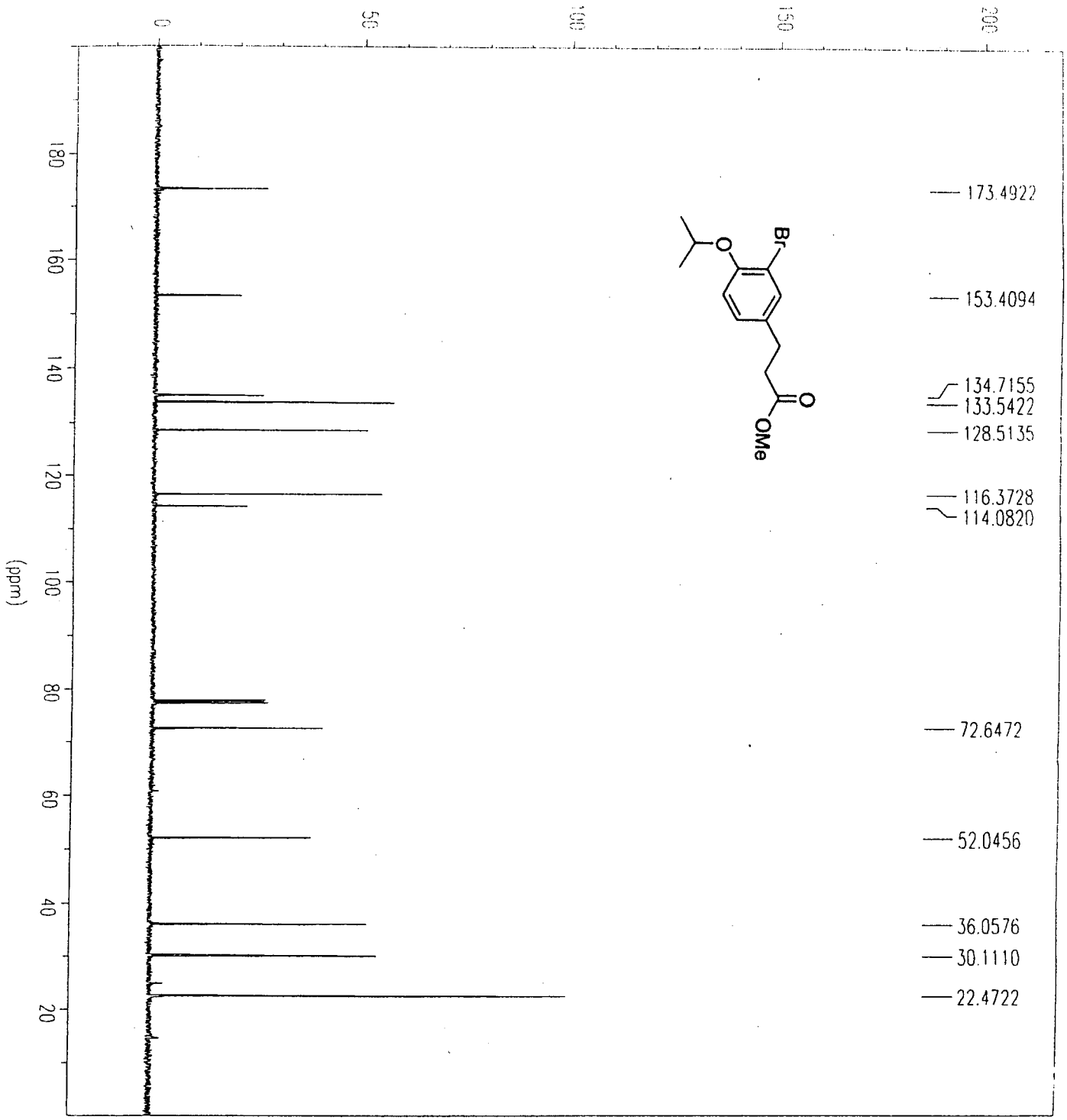

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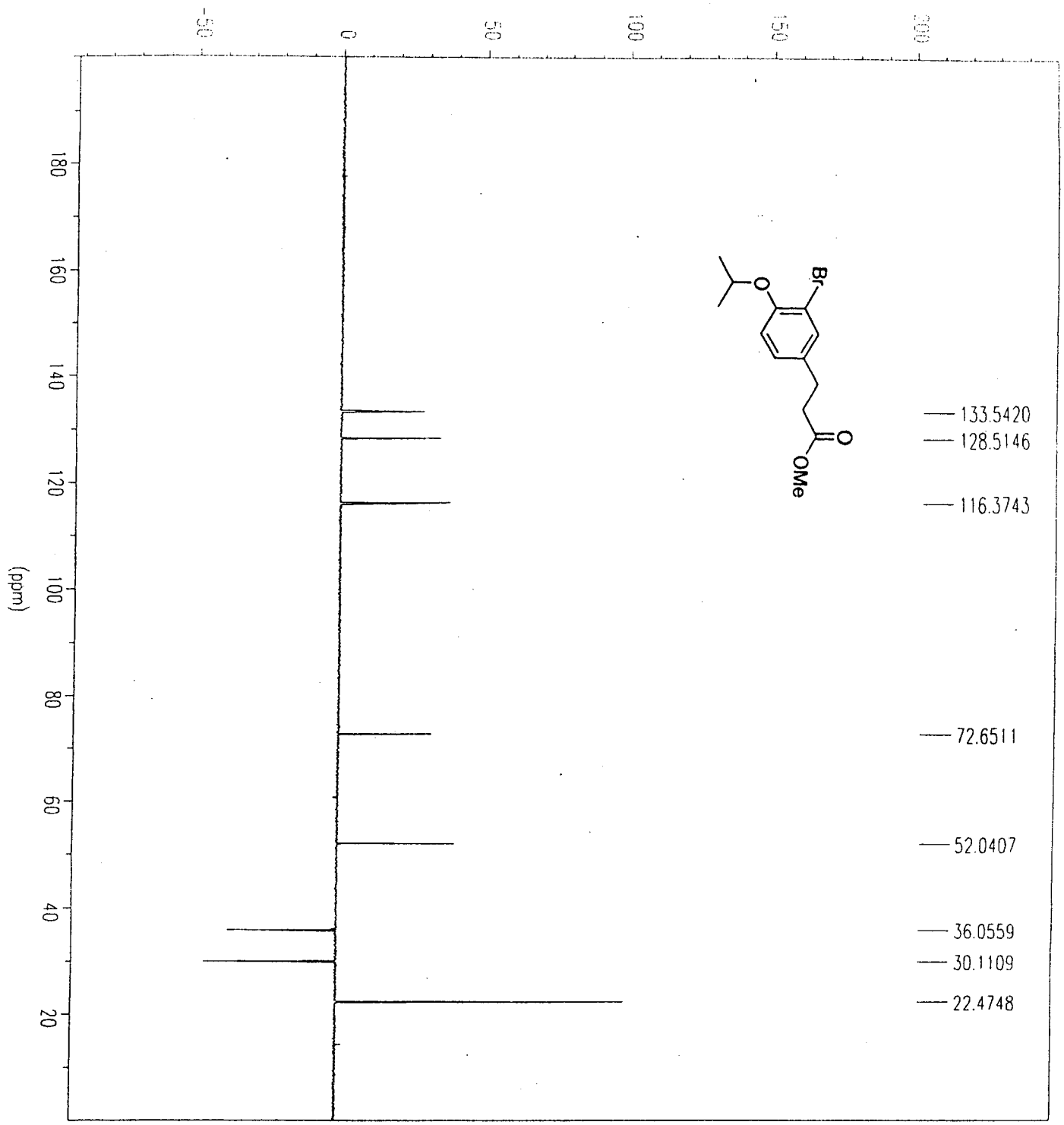

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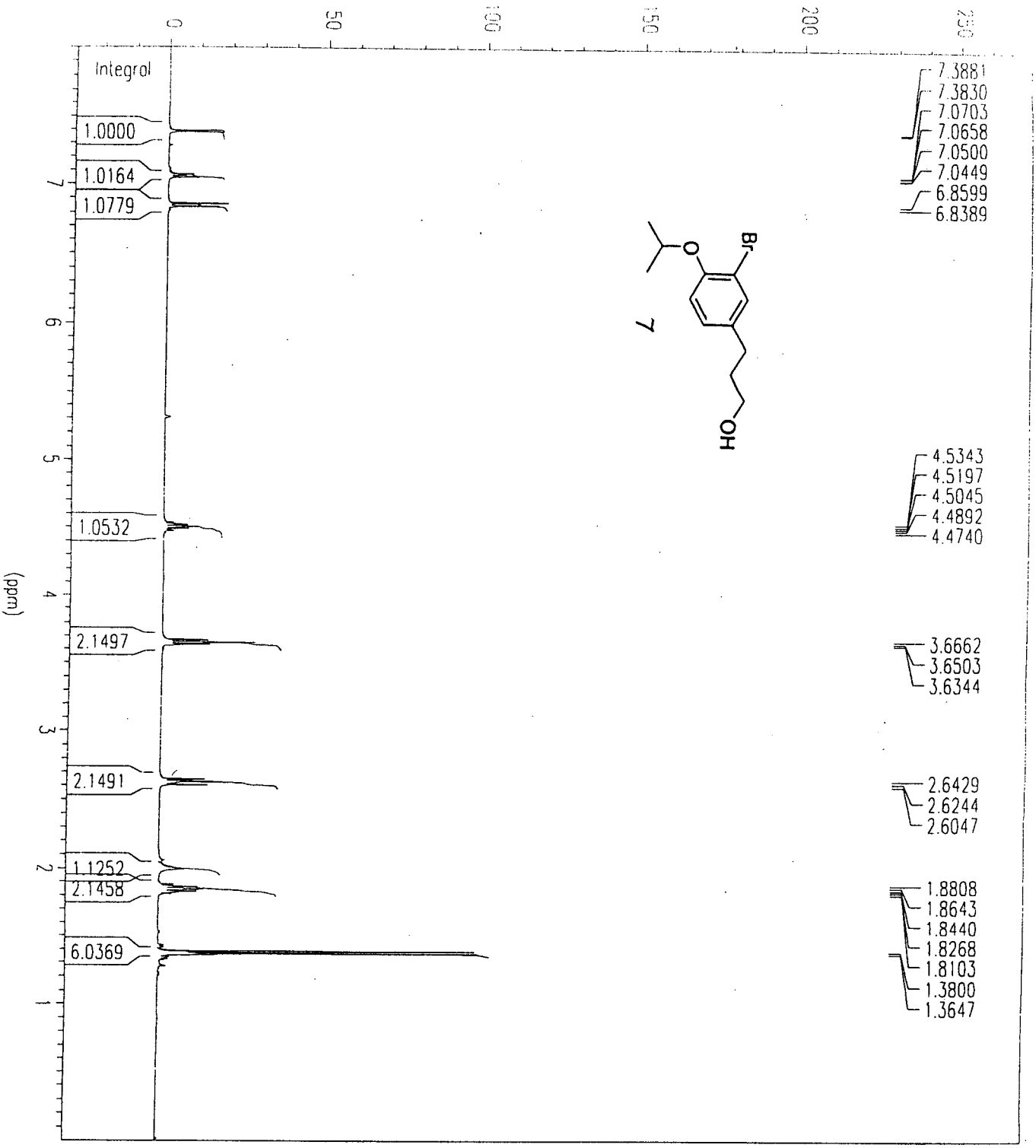

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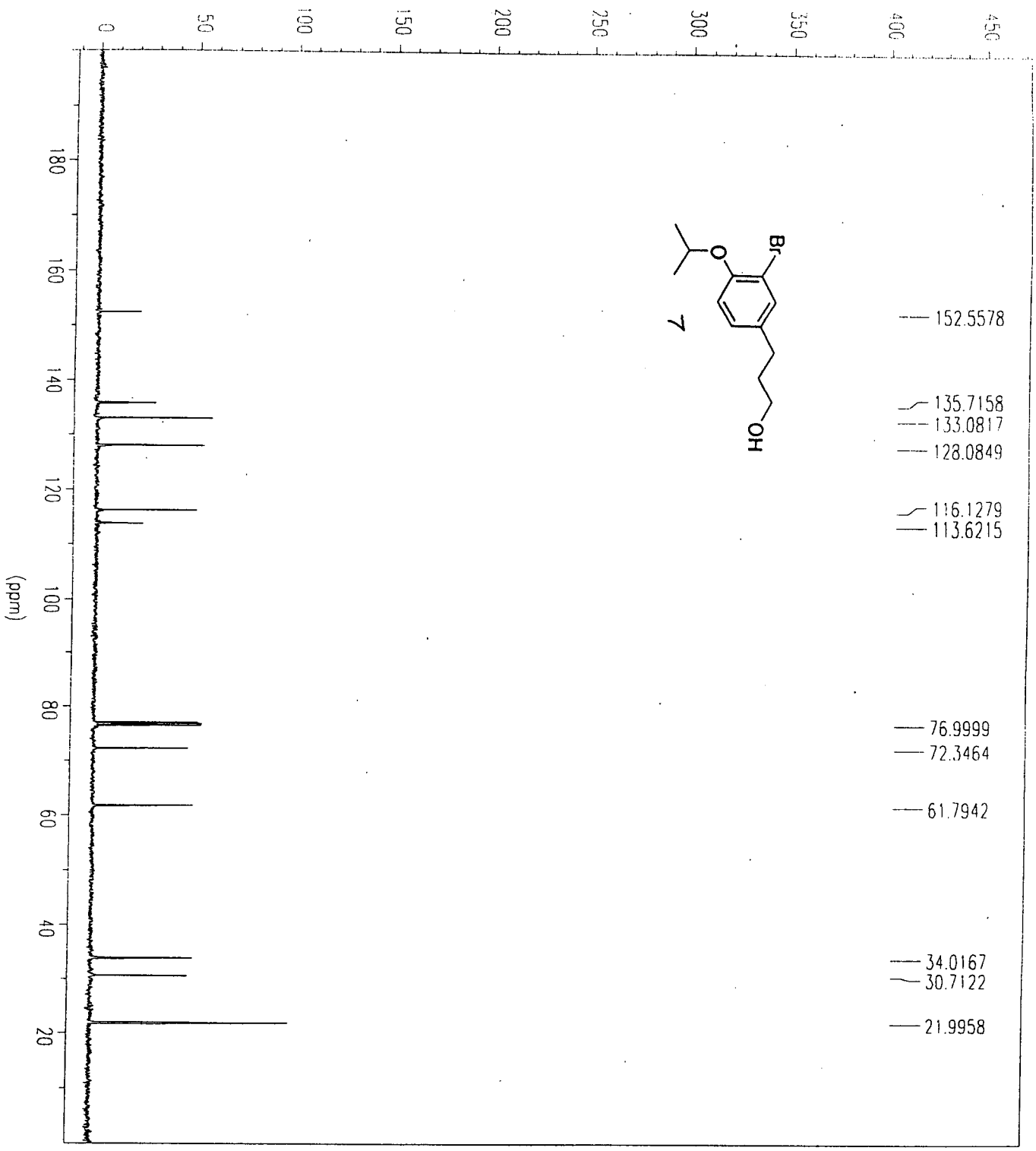

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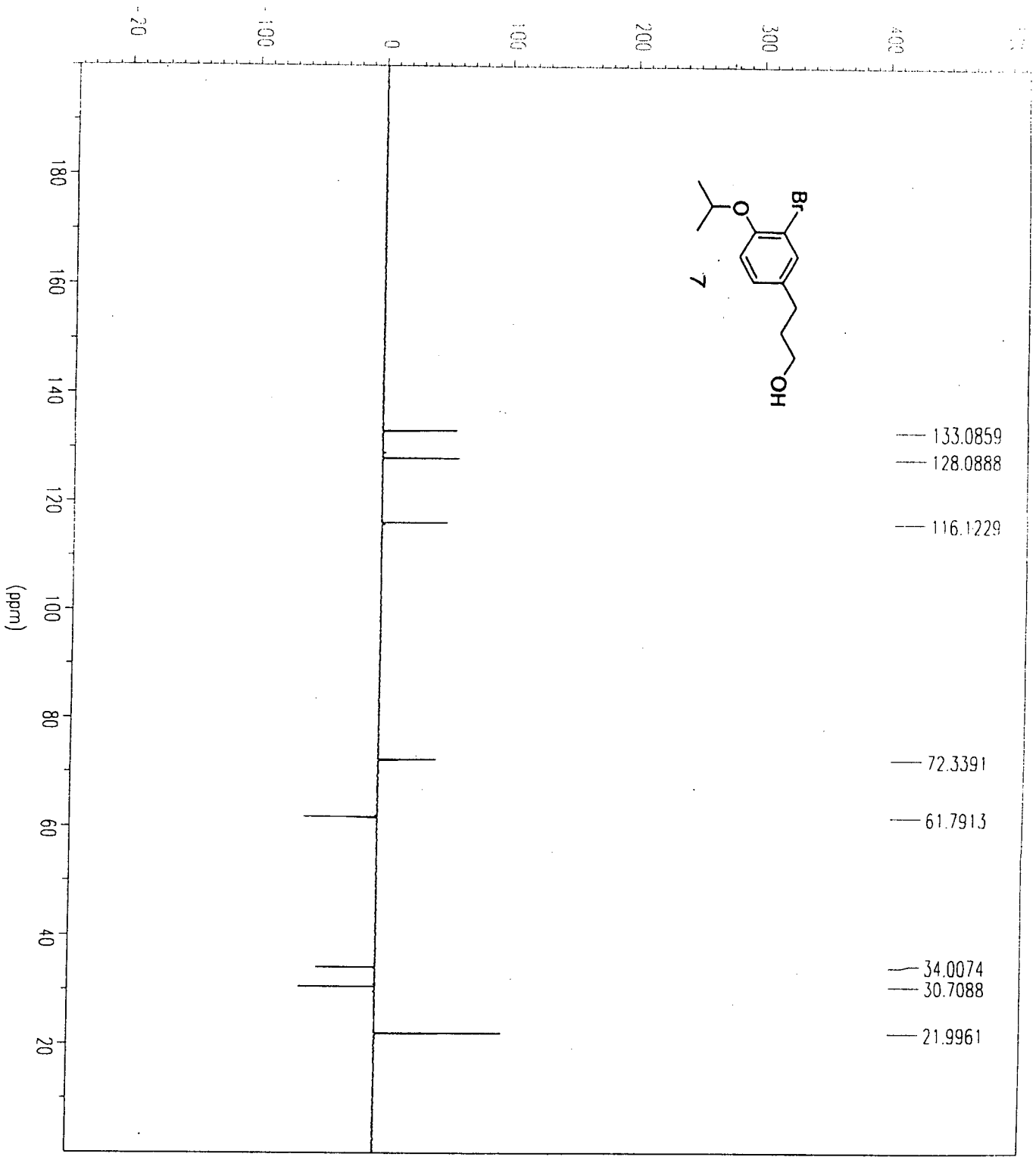

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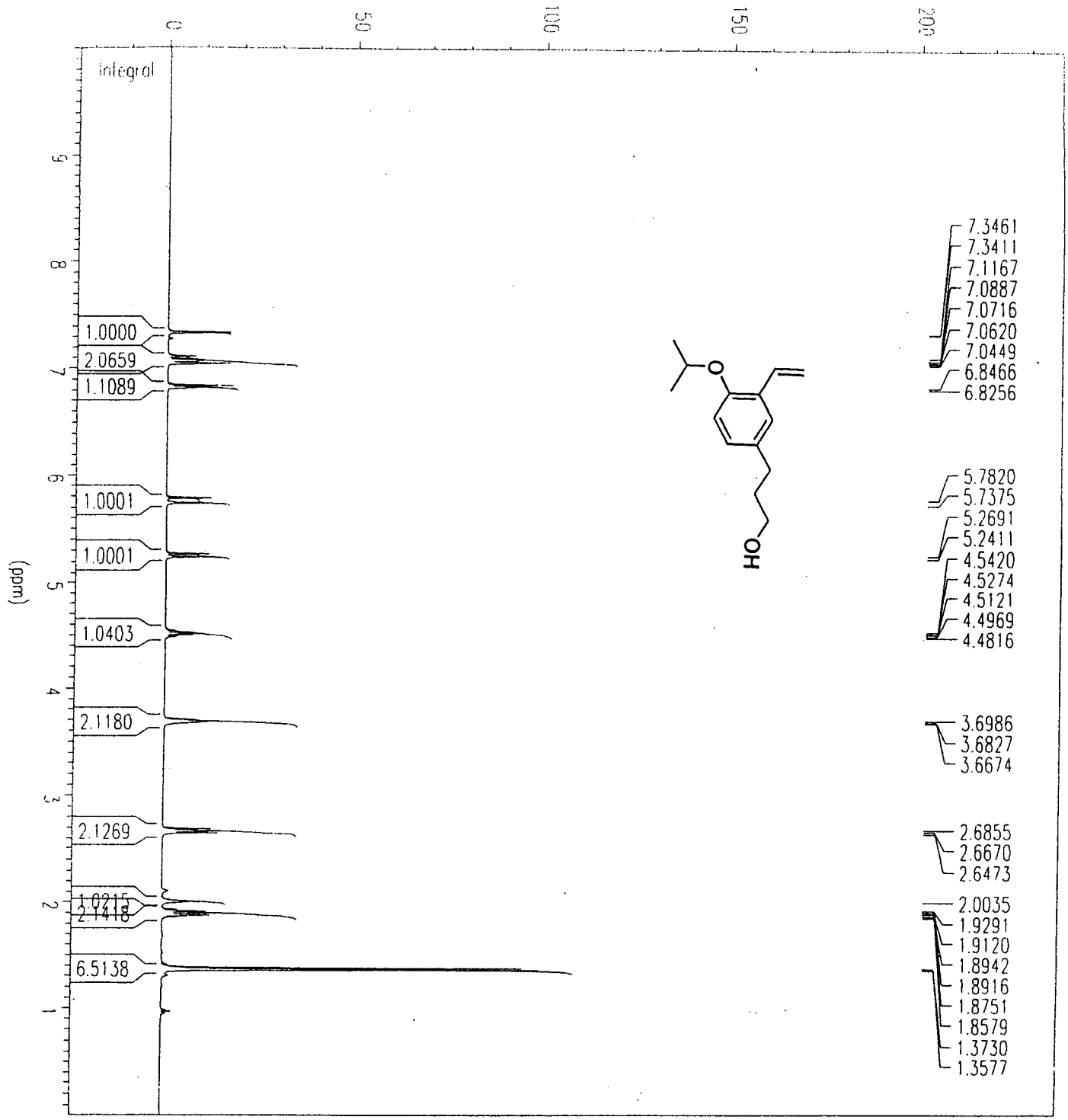
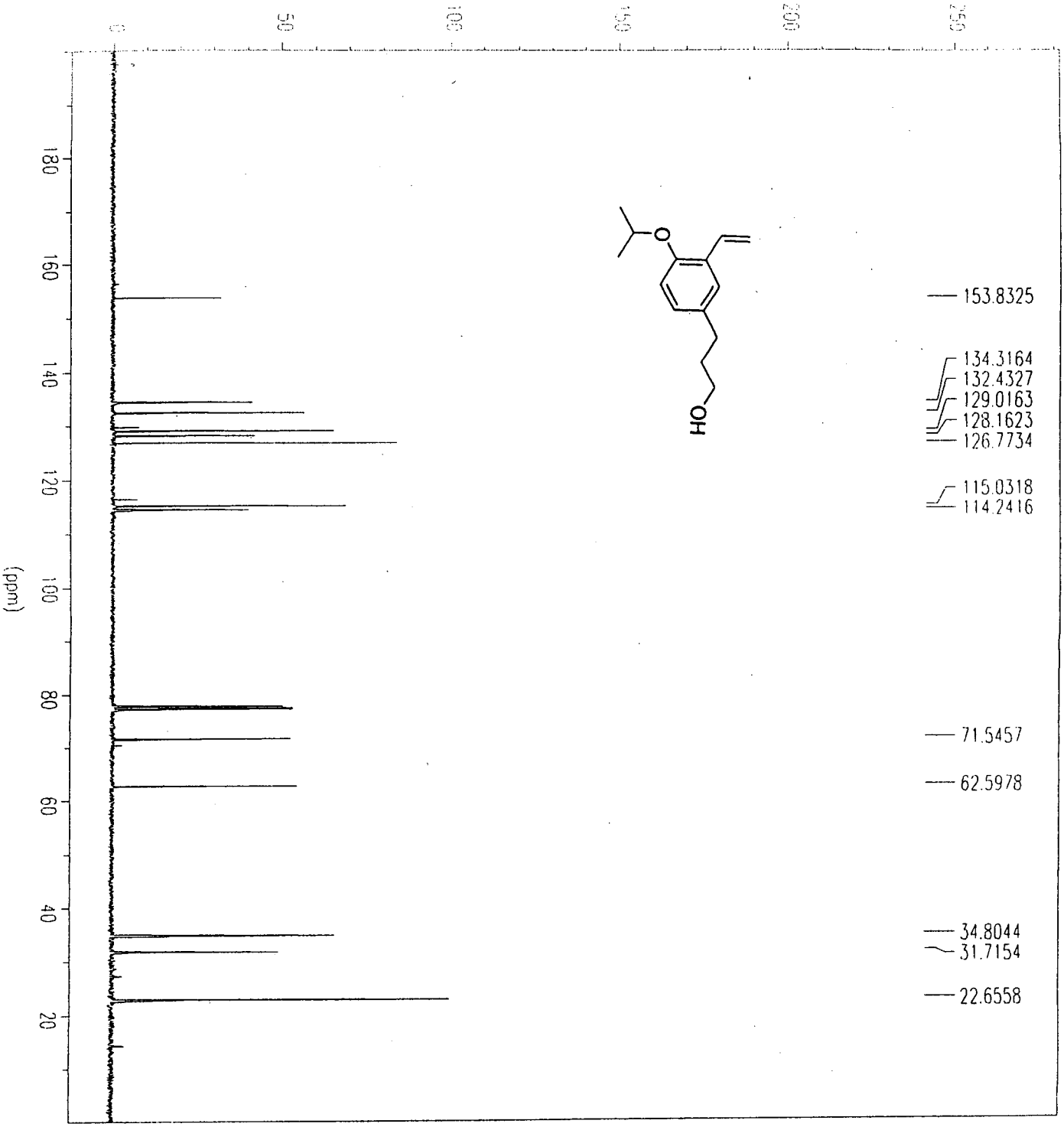


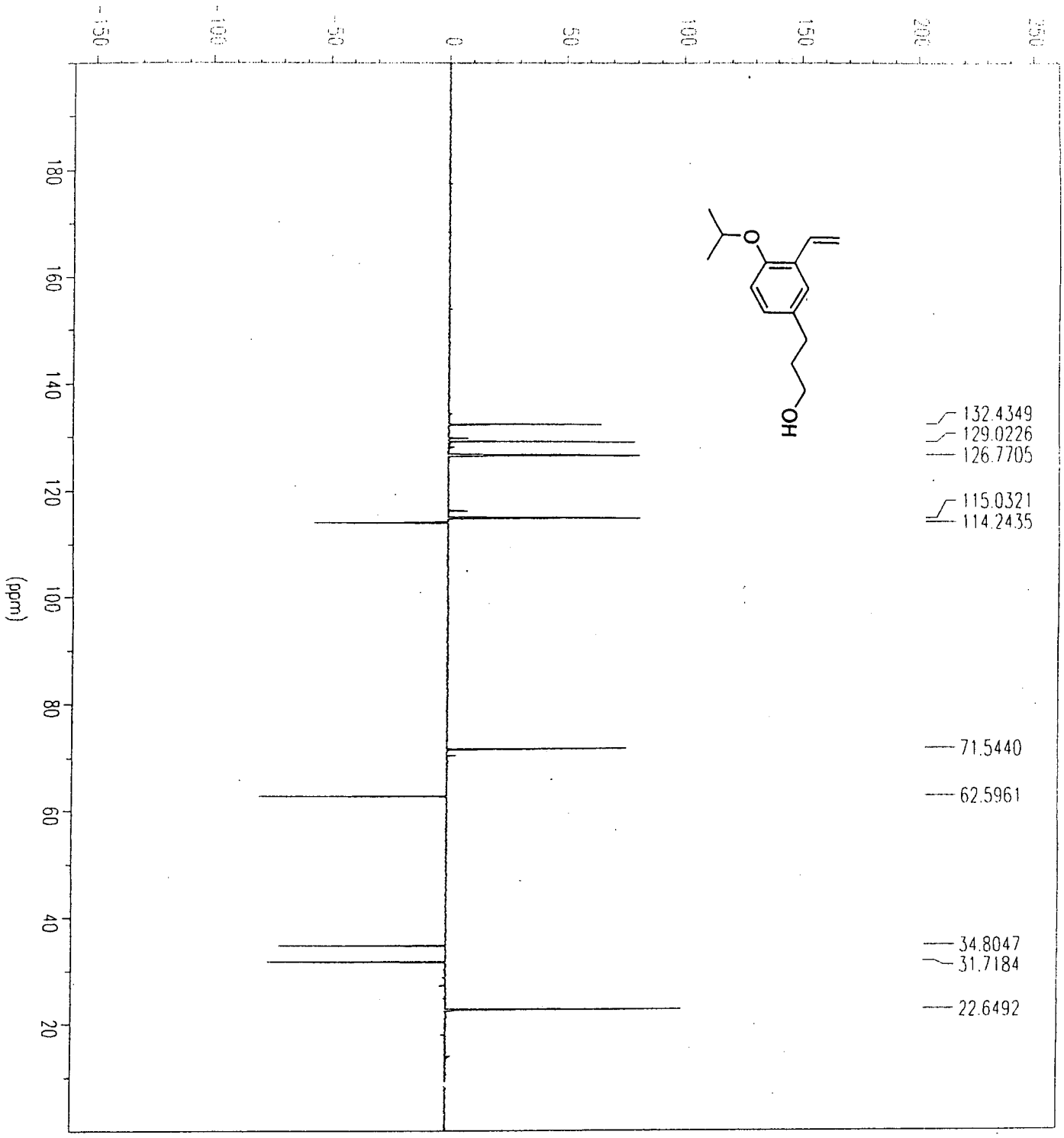
*** Current Data Parameters ***
NAME c-mmo347
EXPNO 1
PROCNO 1

*** 1D NMR Plot Parameters ***
SR 0.00 Hz
ppmcm 0.54
Hzcm 215.13
Yvalcm 77816592.00
Rec F1
MPSF 1.0000000
AQtime 1.9660800 sec



*** Current Data Parameters ***
NAME c-mmo347
EXPNO 2
PROCNO 1

*** 1D NMR Plot Parameters ***
SR -0.00 Hz
ppmcm 10.75
Hzcm 1081.85
YVolcm 61550116.00
Rec F1
MPSF 1.0000000
AQtime 1.2451840 sec

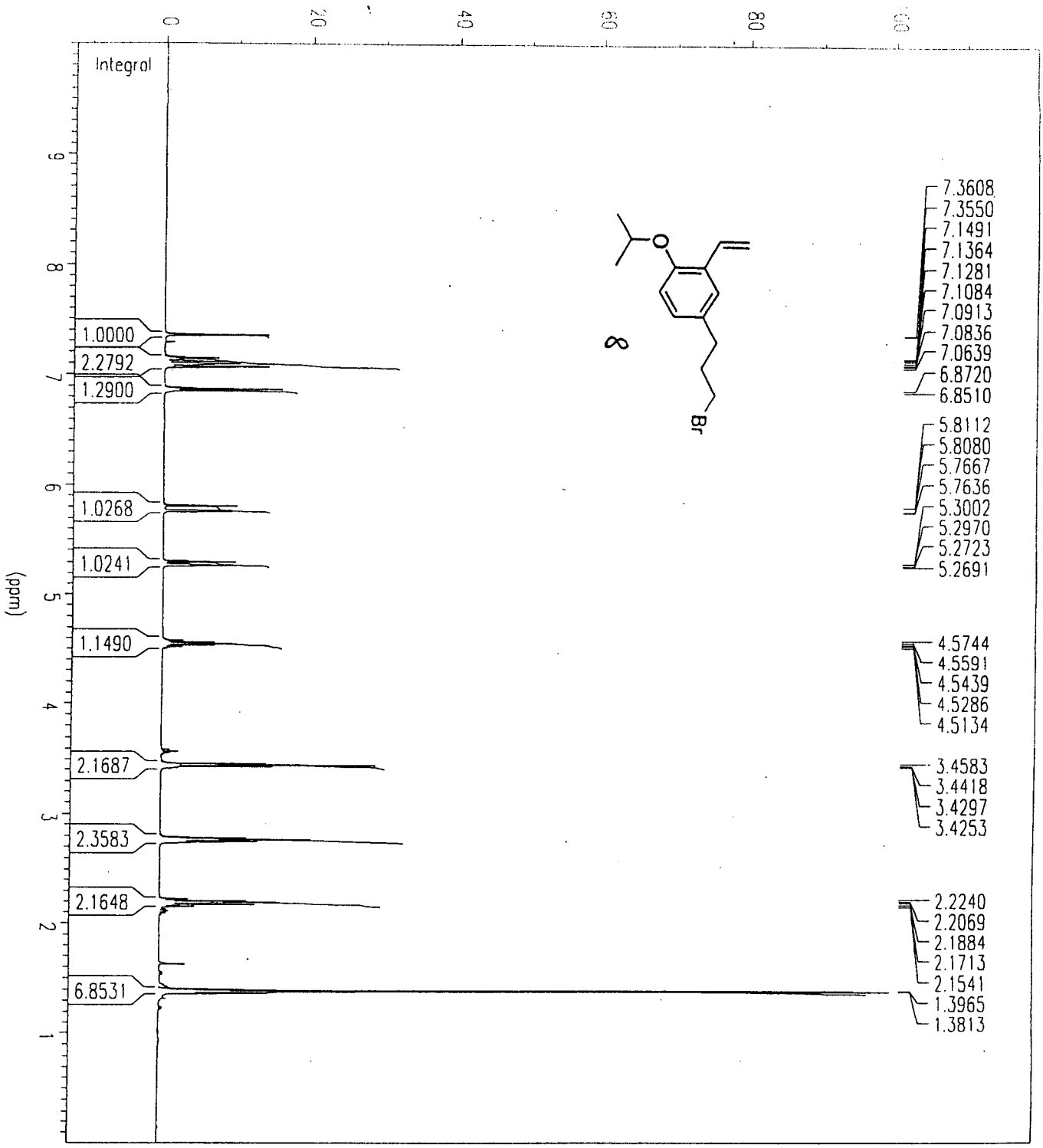


*** Current Data Parameters ***

NAME	:	c-mma347
EXPNO	:	3
PROCNO	:	1

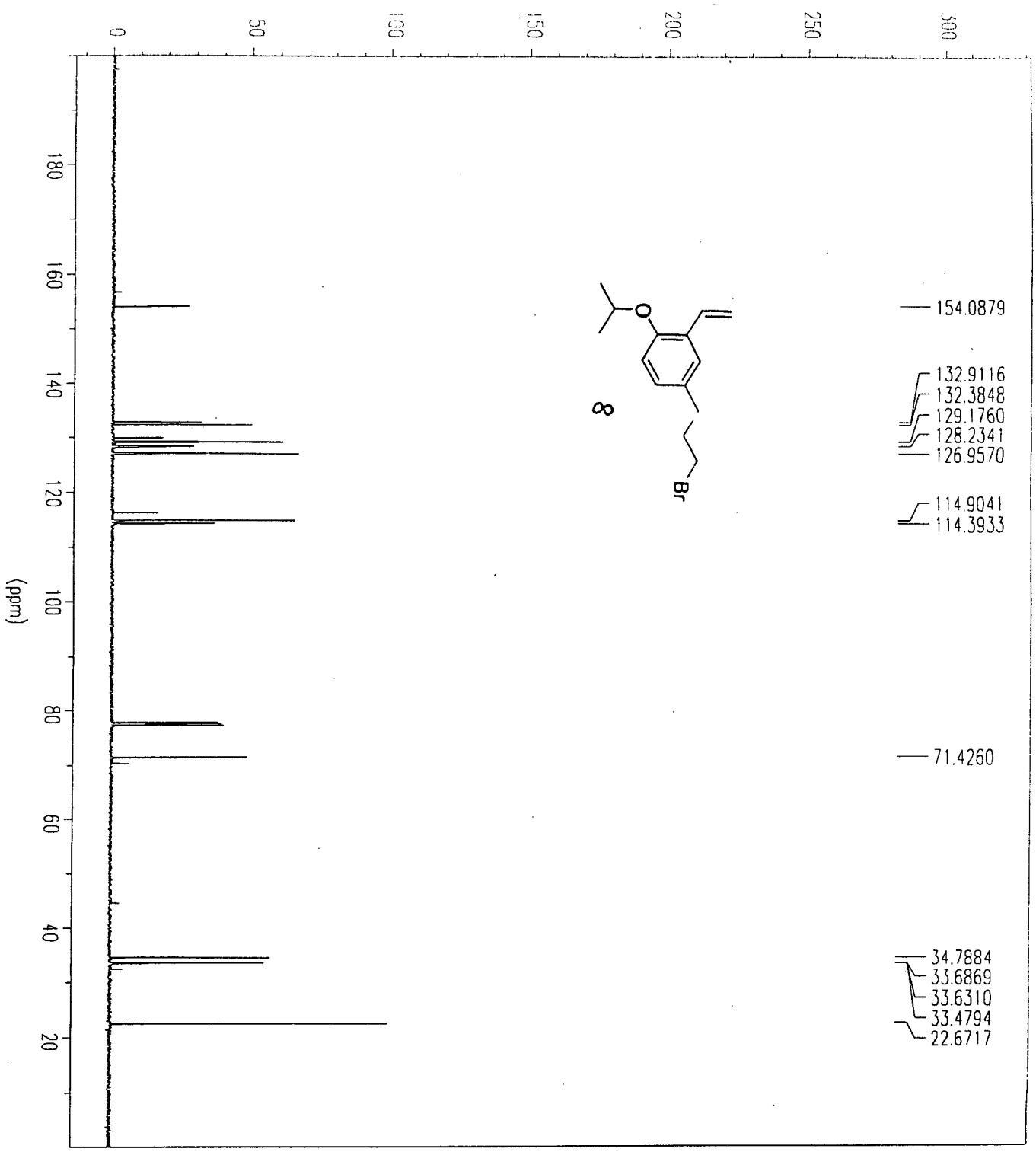
*** 1D NMR Plot Parameters ***

SR	:	0.00 Hz
ppmcm	:	10.75
Hzcm	:	1081.86
Yvalcm	:	95088936.00
Rec	:	F1
MPSF	:	1.0000000
AQtime	:	1.3107200 sec



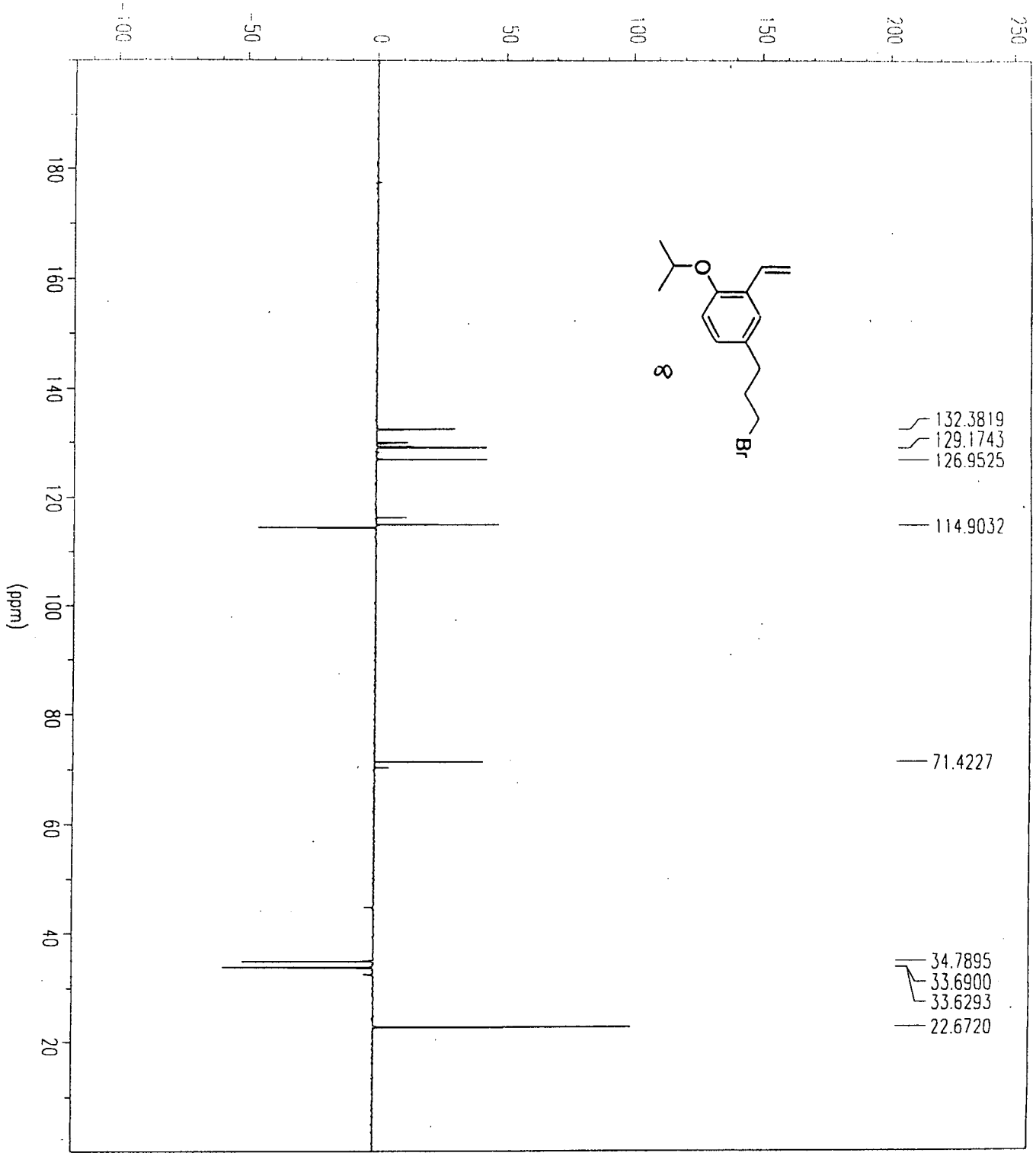
*** Current Data Parameters ***
NAME c-mma362
EXPNO 1
PROCNO 1

*** Acquisition Parameters ***
BF1 400.1300000 MHz
DATEt 16:03:14
DATEd Nov 05 2002
NS 8
NUCLEUS 1H
SOLVENT CDCl3
TE 300.0 K



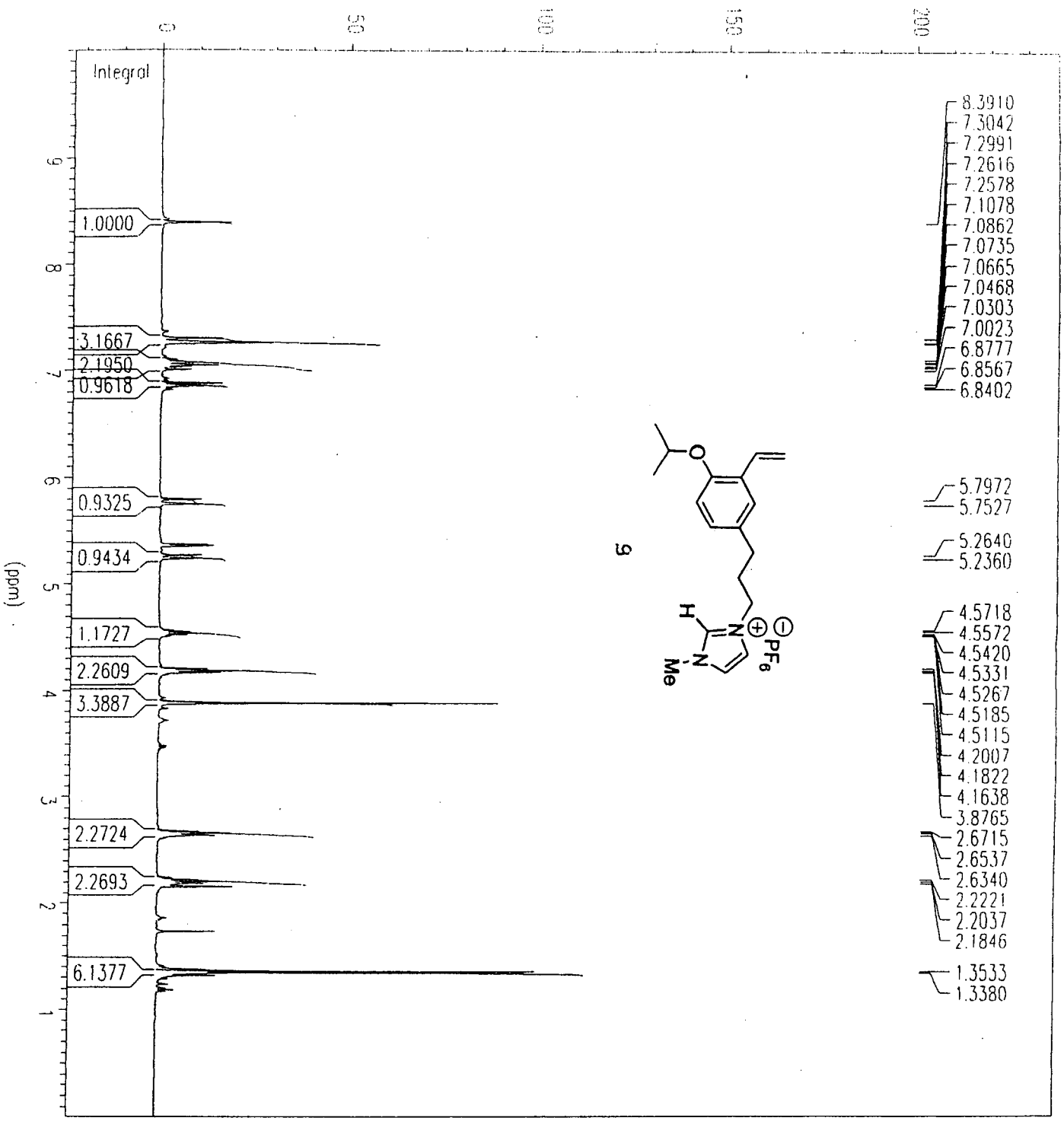
*** Current Data Parameters ***
NAME c-mma362
EXPNO 2
PROCNO 1

*** Acquisition Parameters ***
BF1 100.6127290 MHz
DATEt 16:05:43
DATEd Nov 05 2002
NS 141
NUCLEUS 13C
SOLVENT CDCl3
TE 300.0 K



*** Current Data Parameters ***
NAME c-mma362
EXPNO 3
PROCNO 1

*** Acquisition Parameters ***
BF1 100.6127290 MHz
DATEt 16:22:03
DATEd Nov 05 2002
NS 170
NUCLEUS 13C
SOLVENT CDCl3
TE 300.0 K

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*** Current Data Parameters ***
NAME                 c-mmo303
EXPNO                      10
PROCNO                      1

*** 1D NMR Plot Parameters ***
SR                    0.00 Hz
ppmcm                 0.54
Hzcm                215.13
YValcm          73892368.00
Rec                       F1
MPSF             1.0000000
AQtime           1.9660800 sec
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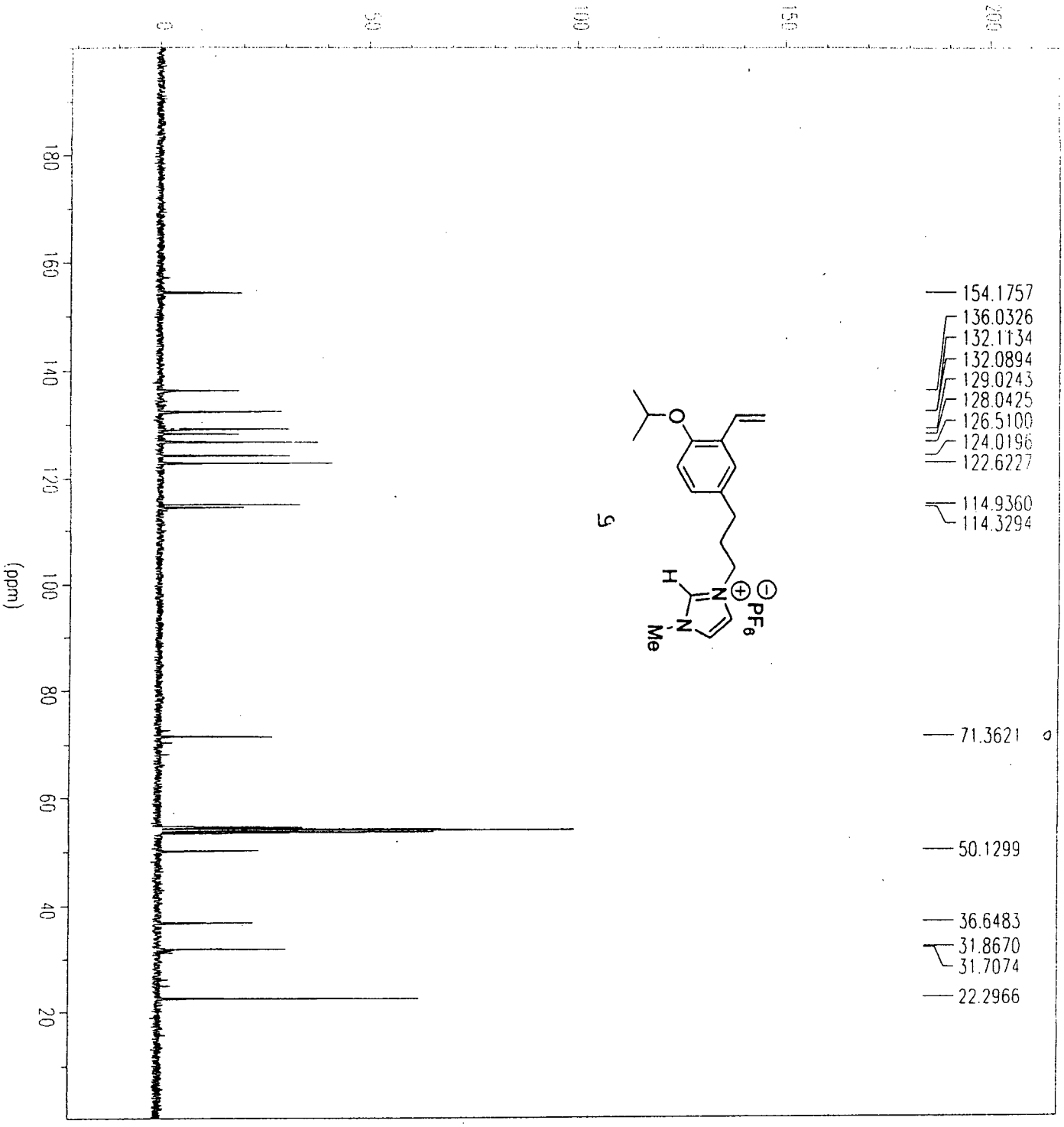
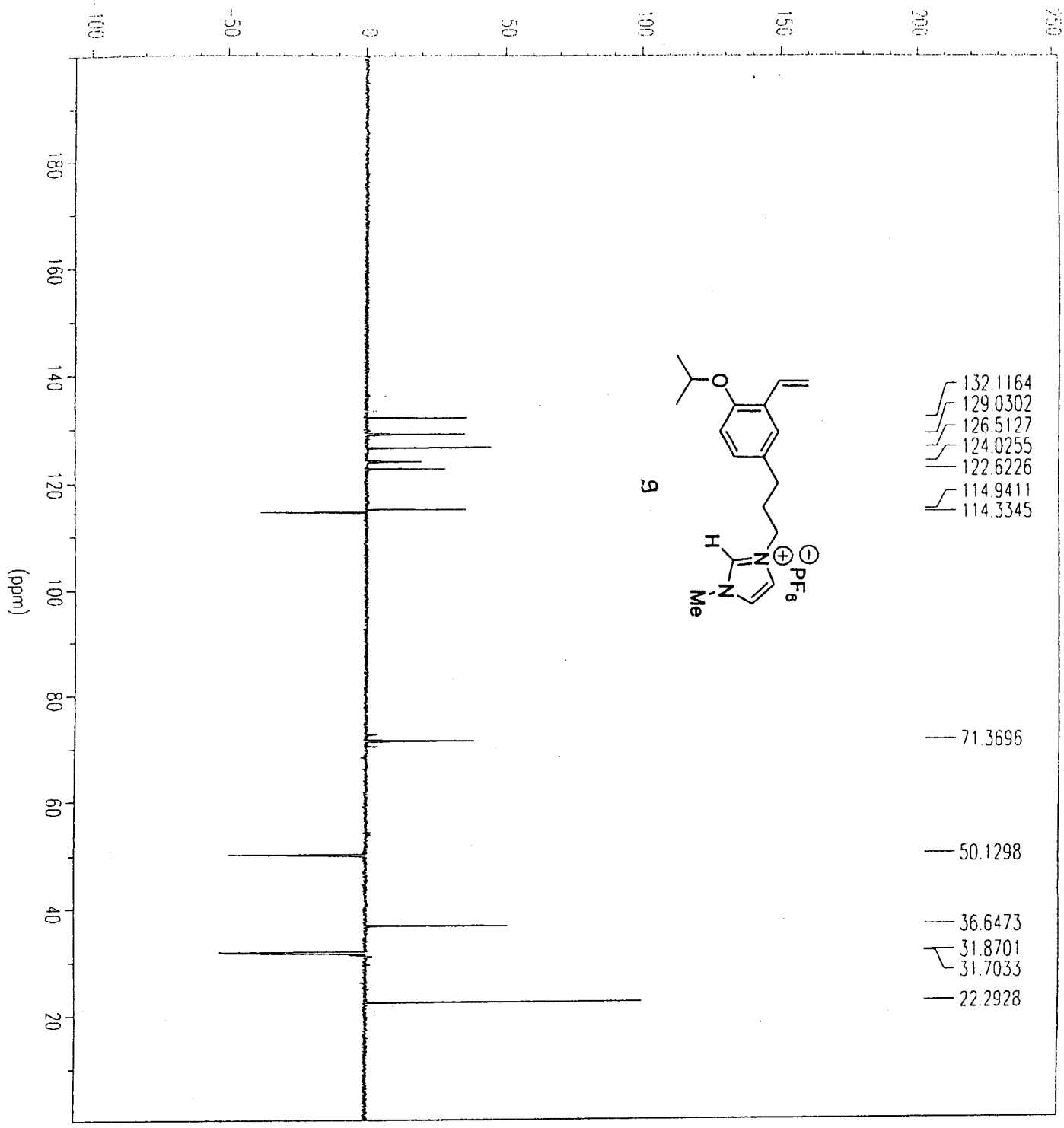


*** Current Data Parameters ***

NAME	:	c-mma303
EXPNO	:	11
PROCNO	:	1

*** 1D NMR Plot Parameters ***

SR	:	-0.00 Hz
ppmcm	:	10.75
Hzcm	:	1081.85
YValcm	:	40167328.00
Rec	:	F1
MPSF	:	1.0000000
AQtime	:	1.2451840 sec

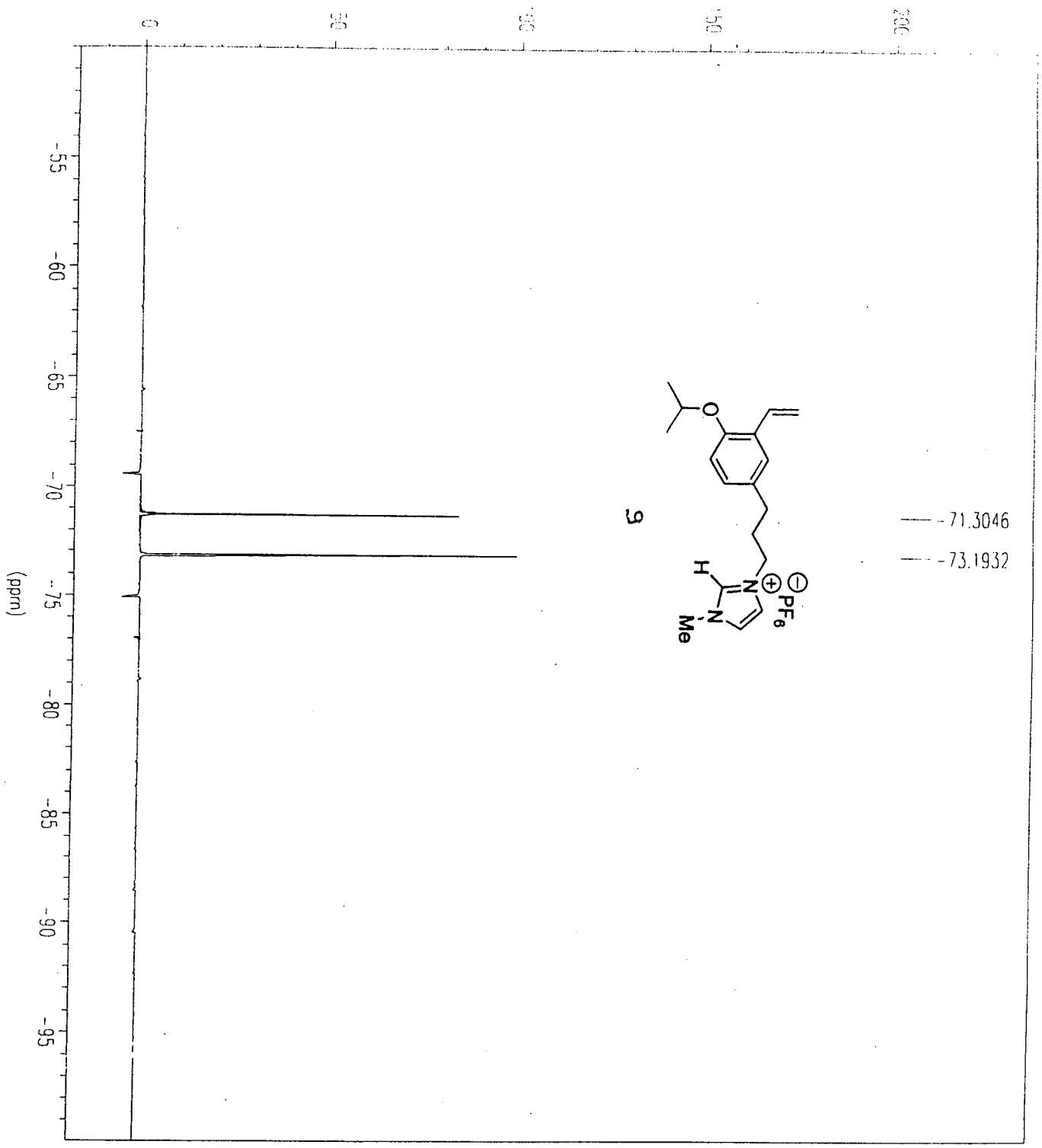


*** Current Data Parameters ***

NAME	c-mma303
EXPNO	12
PROCNO	1

*** 1D NMR Plot Parameters ***

SR	0.00 Hz
ppmcm	10.75
Hzcm	1081.86
YVolcm	107957632.00
Rec	F1
MPSF	1.0000000
AQtime	1.3107200 sec



*** Current Data Parameters ***

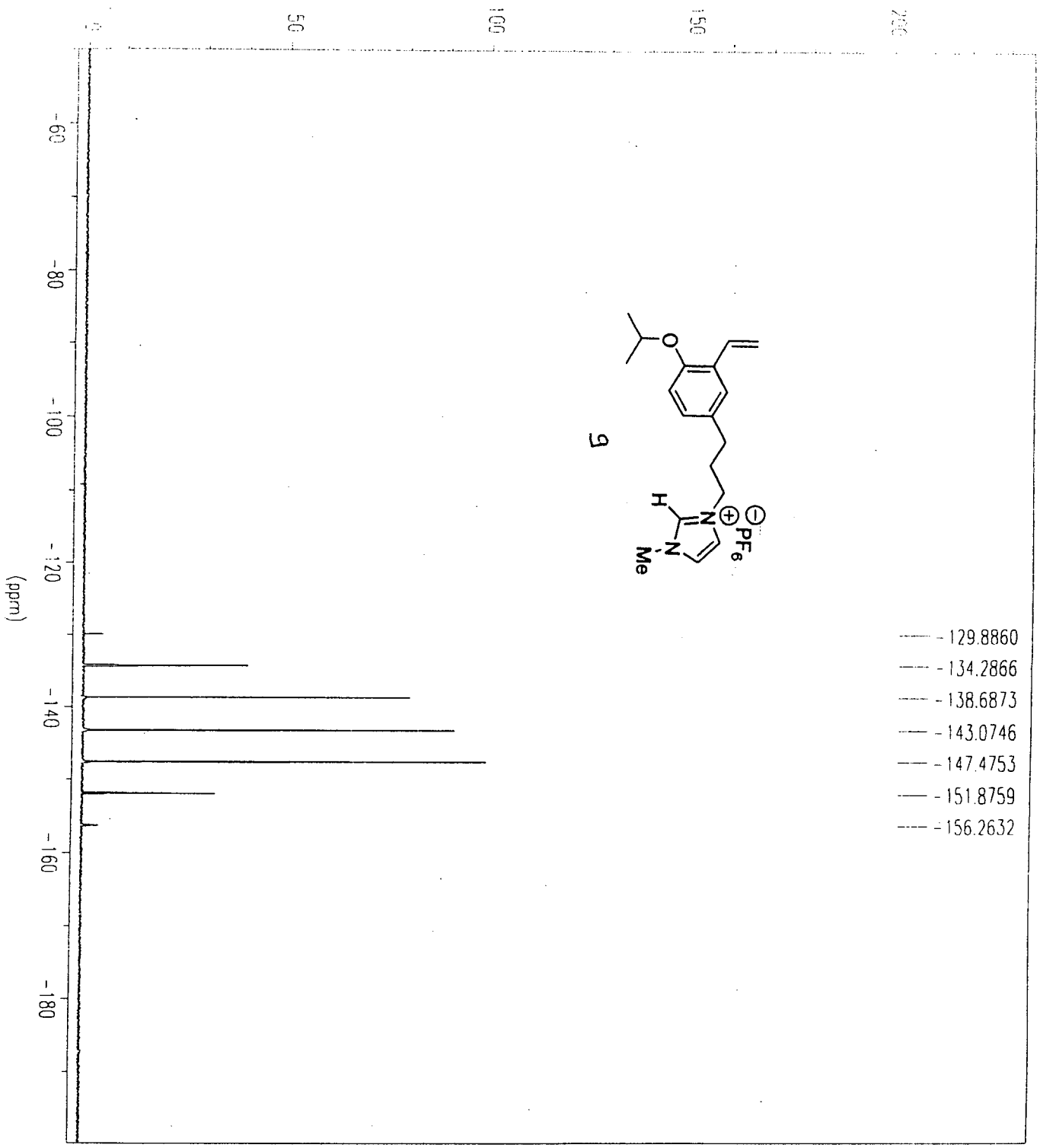
NAME	:	c-mma303
EXPNO	:	2
PROCNO	:	1

*** Acquisition Parameters ***

BF1	:	376.4985340 MHz
DATE1	:	15:41:39
DATEd	:	Jul 24 2002
NS	:	32
NUCLEUS	:	19F
SOLVENT	:	CDCl3
TE	:	300.0 K

*** 1D NMR Plot Parameters ***

SR	:	-3.28 Hz
ppmcm	:	2.60
Hzcm	:	980.54
YValcm	:	60496932.00
AQtime	:	0.1638400 sec



9

*** Current Data Parameters ***

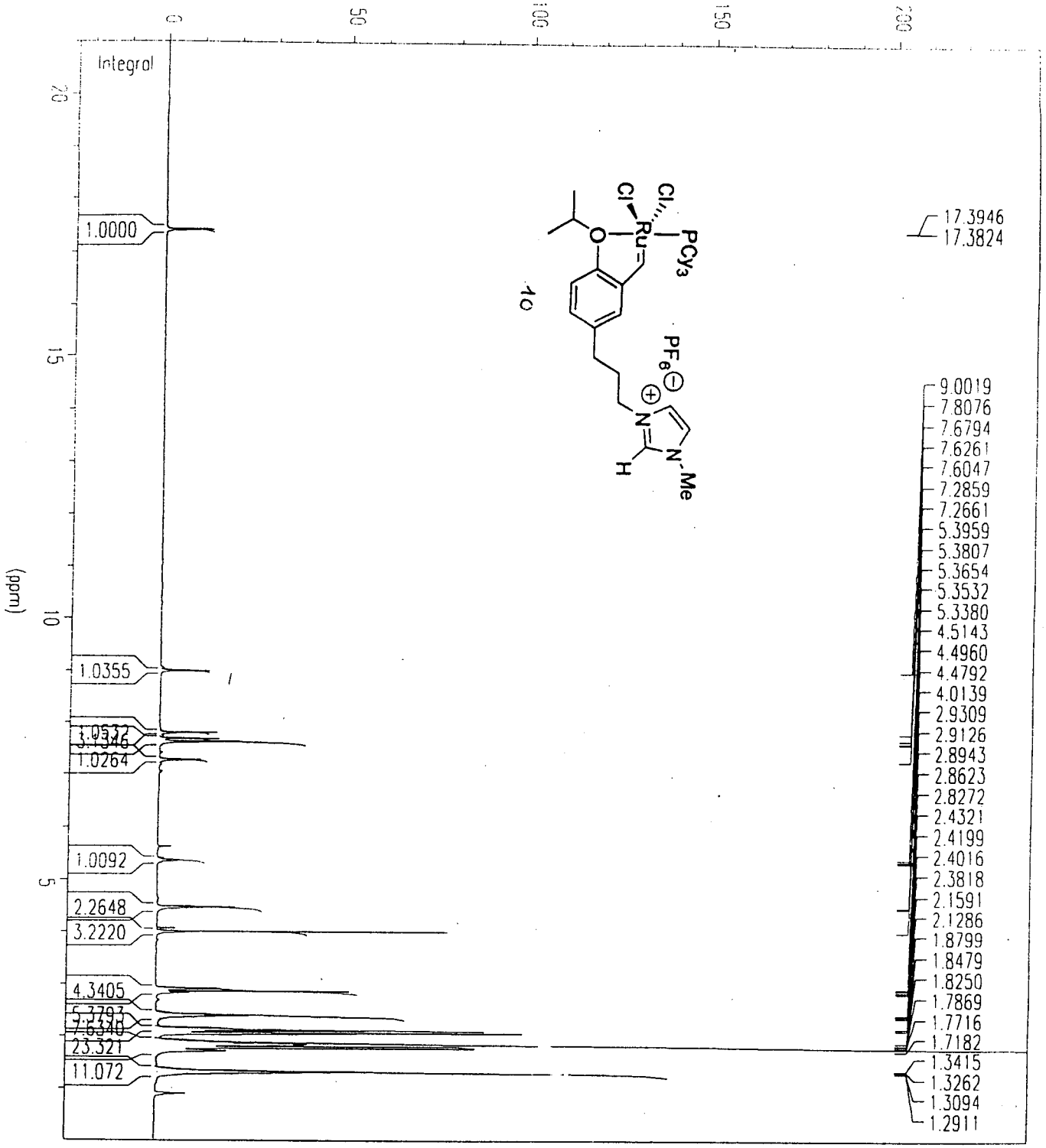
NAME	:	c-mma303
EXPNO	:	3
PROCNO	:	1

*** Acquisition Parameters ***

BF1	:	161.975930 MHz
DATE1	:	15:43:48
DATEd	:	Jul 24 2002
NS	:	29
NUCLEUS	:	31P
SOLVENT	:	Aceton
TE	:	300.0 K

*** 1D NMR Plot Parameters ***

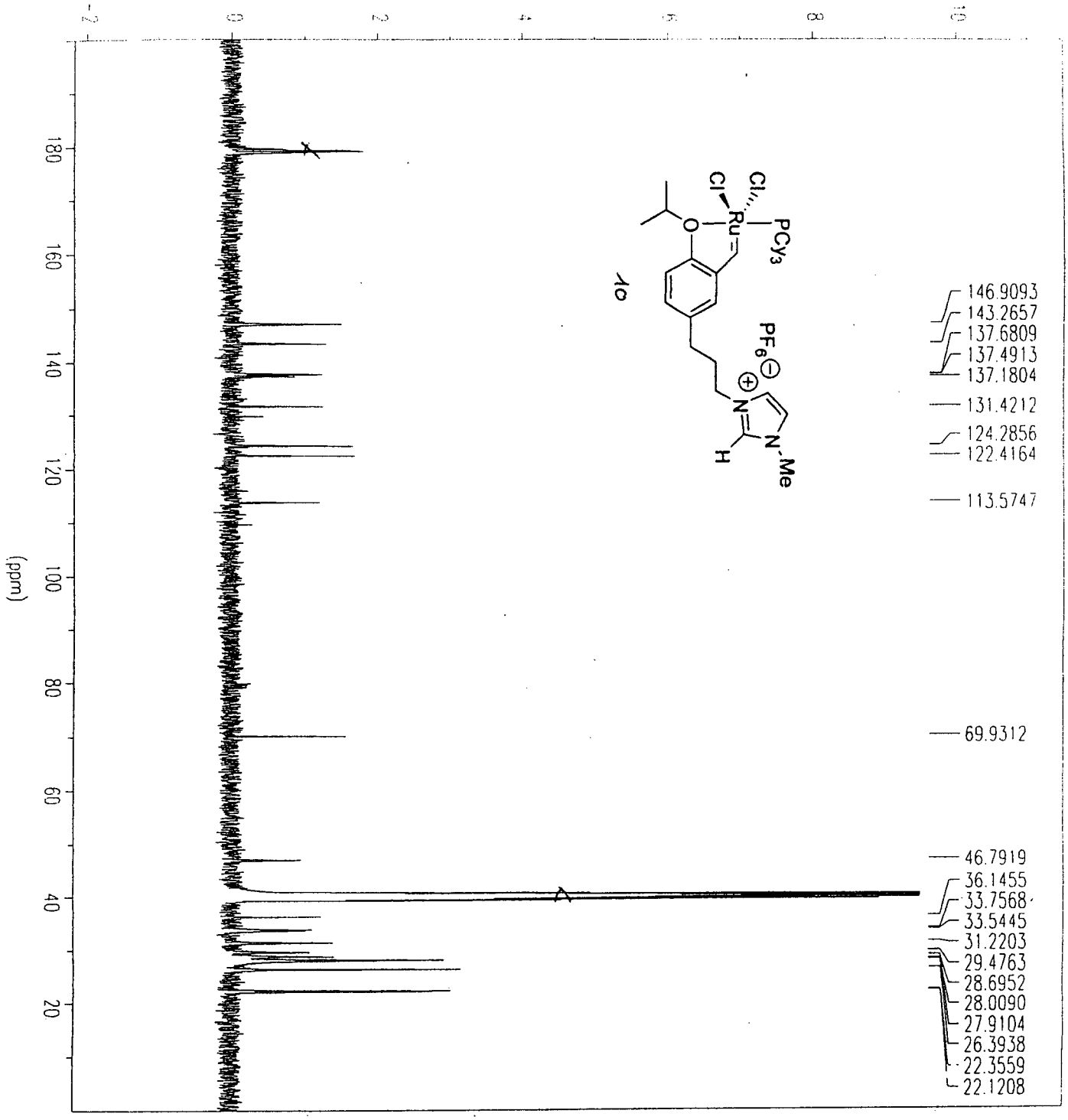
SR	:	0.01 Hz
ppmcm	:	7.81
Hzcm	:	1265.44
YValcm	:	47771272.00
AQtime	:	0.4587520 sec



*** Current Data Parameters ***
NAME c-mma
EXPNO 60
PROCNO 1

*** Acquisition Parameters ***
BF1 400.1300000 MHz
DATEt 15:45:26
DATEd Jul 16 2002
NS 8
NUCLEUS 1H
SOLVENT aceton
TE 300.0 K

*** 1D NMR Plot Parameters ***
SR -0.00 Hz
ppmcm 1.09
Hzcm 437.64
YVolcm 8 21494.00
AQtime 0.8192000 sec

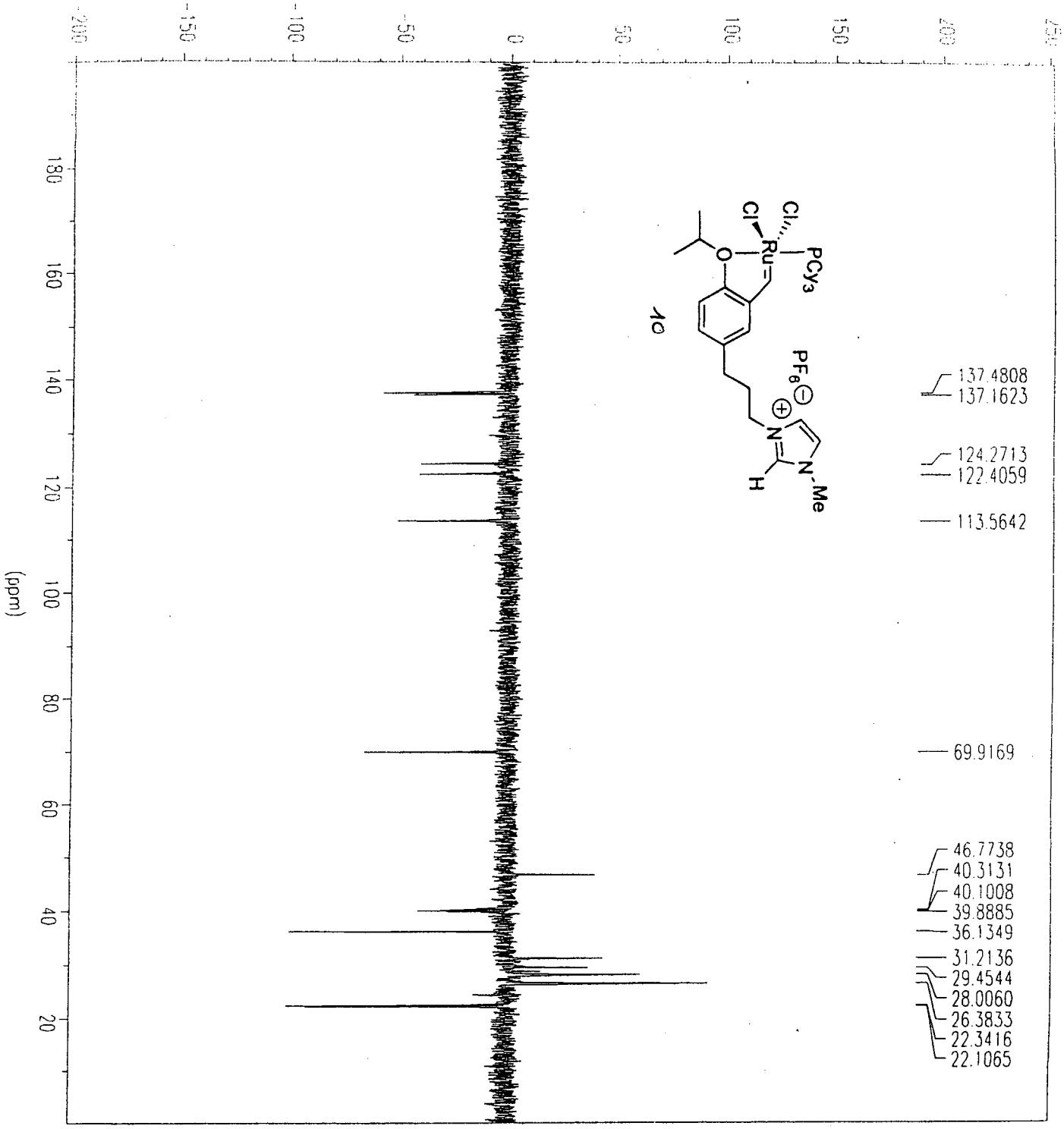


*** Current Data Parameters ***

NAME	:	c-na296
EXPNO	:	10
PROCNO	:	1

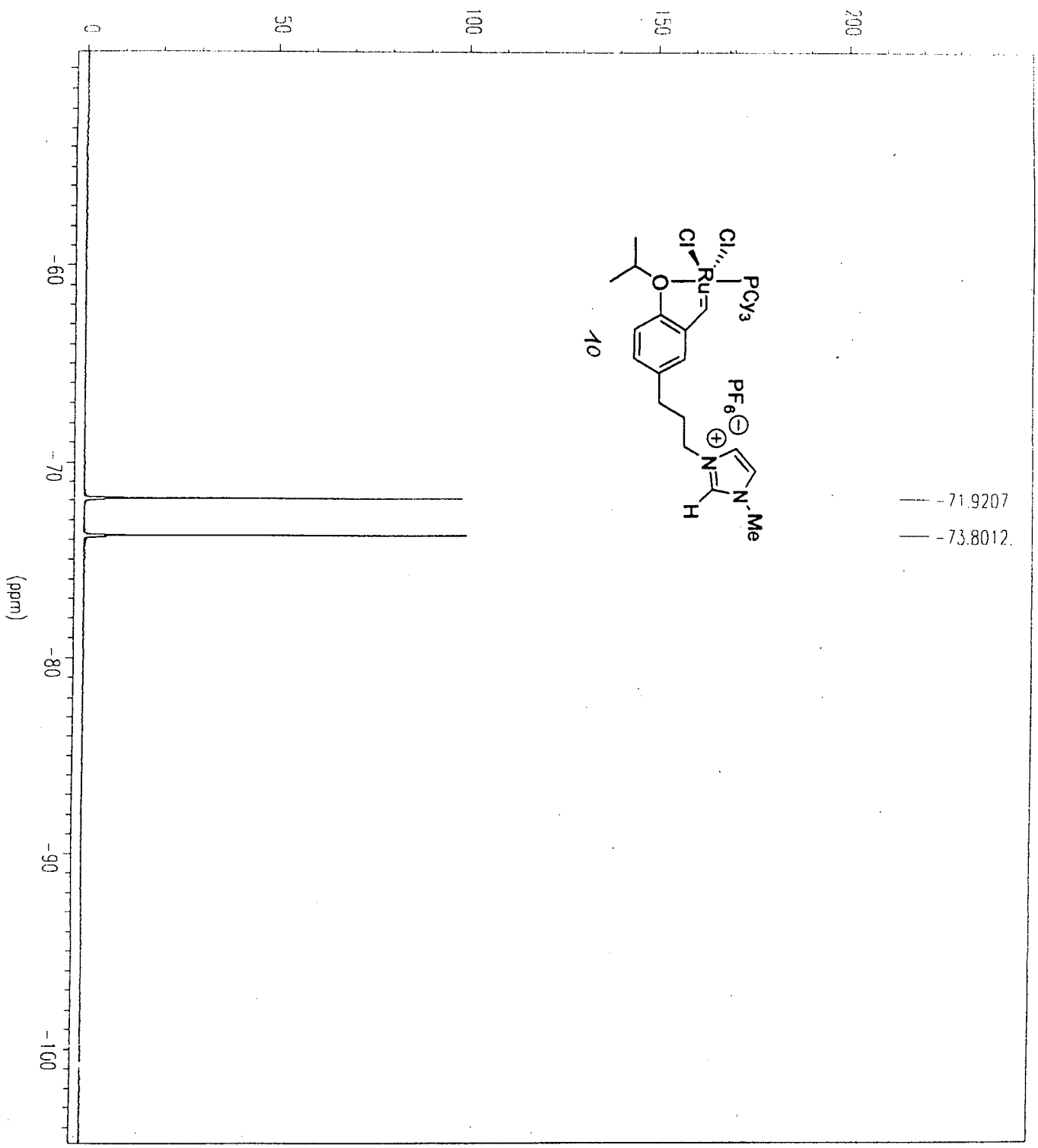
*** 1D NMR Plot Parameters ***

SR	:	50.30 Hz
ppmcm	:	10.75
Hzcm	:	1081.86
Yvalcm	:	318243.50
Rec	:	F1
MPSF	:	1.0000000
AQtime	:	0.6553600 sec



*** Current Data Parameters ***
NAME c-na296
EXPNO 11
PROCNO 1

*** 1D NMR Plot Parameters ***
SR 51.55 Hz
ppmcm 10.75
Hzcm 1081.86
YValcm 12182636.00
Rec F1
MPSF 1.0000000
AQtime 1.3107200 sec



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*** Current Data Parameters ***

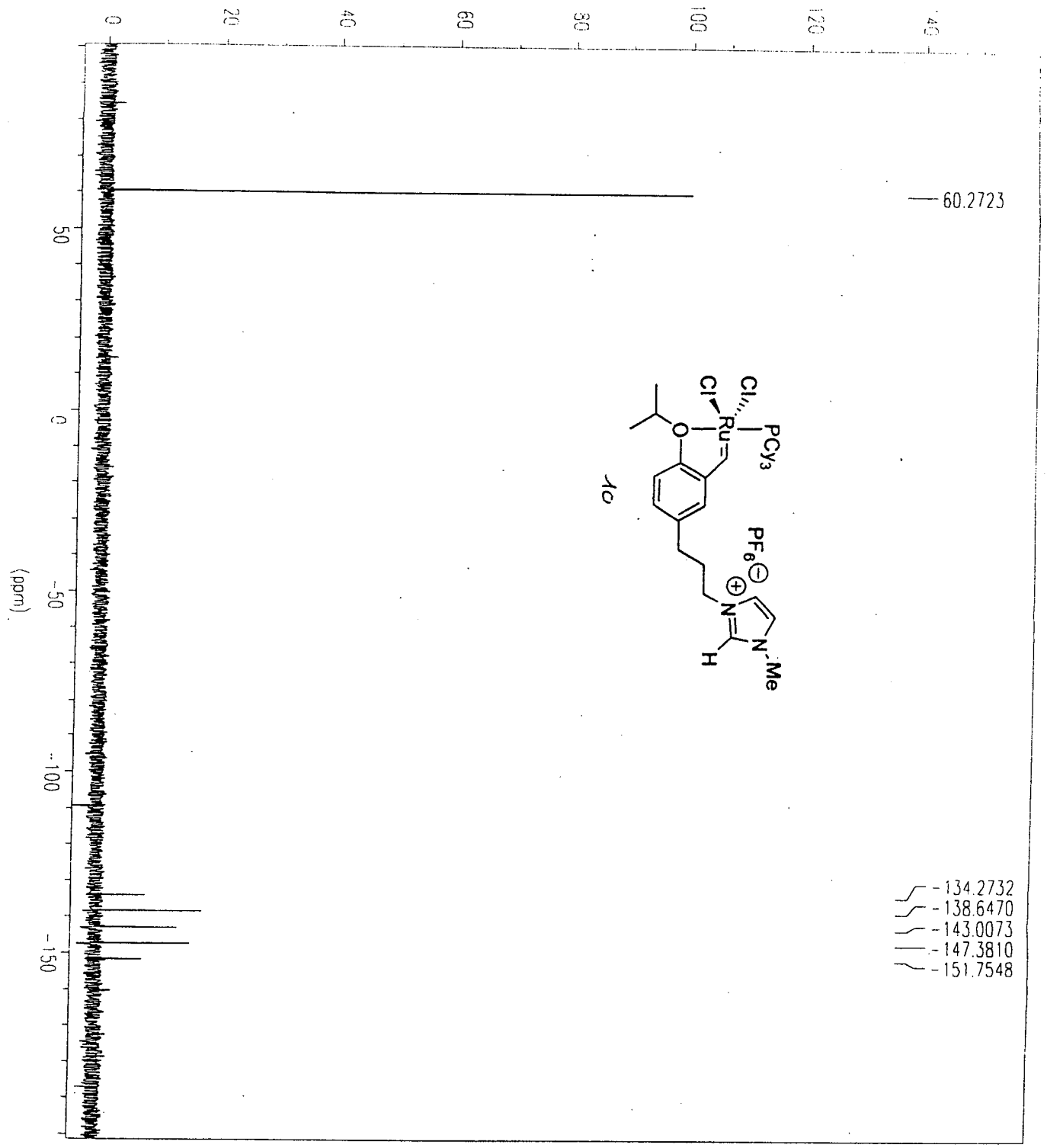
NAME	:	c-mma289
EXPNO	:	11
PROCNO	:	1

*** Acquisition Parameters ***

BF1	:	376.4985340 MHz
DATEt	:	16:11:31
DATEd	:	Jul 15 2002
NS	:	32
NUCLEUS	:	19F
SOLVENT	:	
TE	:	300.0 K

*** 1D NMR Plot Parameters ***

SR	:	-3.28 Hz
ppmcm	:	2.90
Hzcm	:	1091.80
YWdcm	:	4812872.00
AQtime	:	0.1638400 sec



*** Current Data Parameters ***

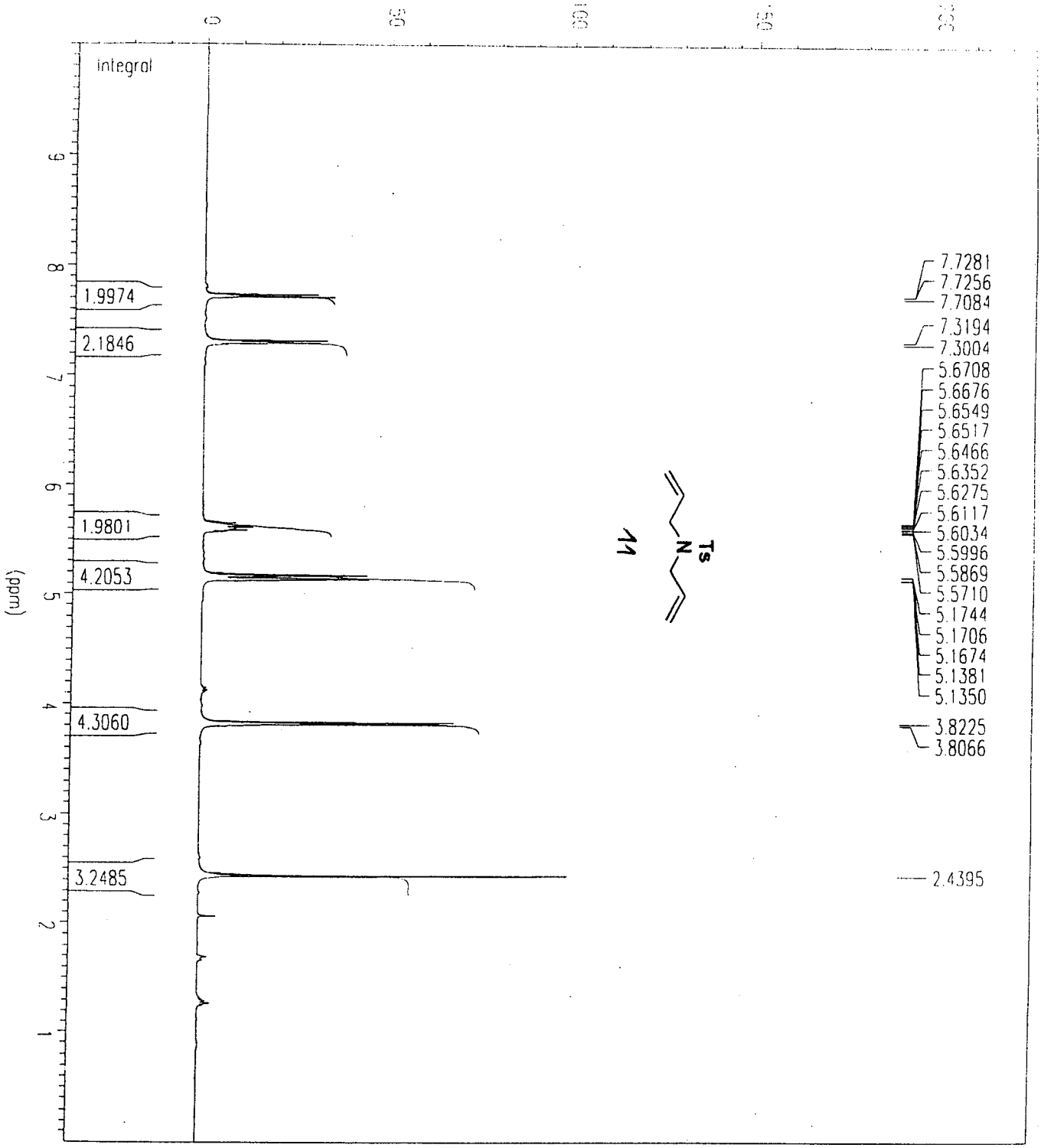
NAME	:	c-mma289
EXPNO	:	12
PROCNO	:	1

*** Acquisition Parameters ***

BF1	:	161.9753930 MHz
DATEt	:	16:13:45
DATEd	:	Jul 15 2002
NS	:	16
NUCLEUS	:	31P
SOLVENT	:	Aceton
TE	:	300.0 K

*** 1D NMR Plot Parameters ***

SR	:	0.01 Hz
ppmcm	:	15.73
Hzcm	:	2547.67
YValcm	:	40254976.00
AQtime	:	0.4587520 sec



*** Current Data Parameters ***

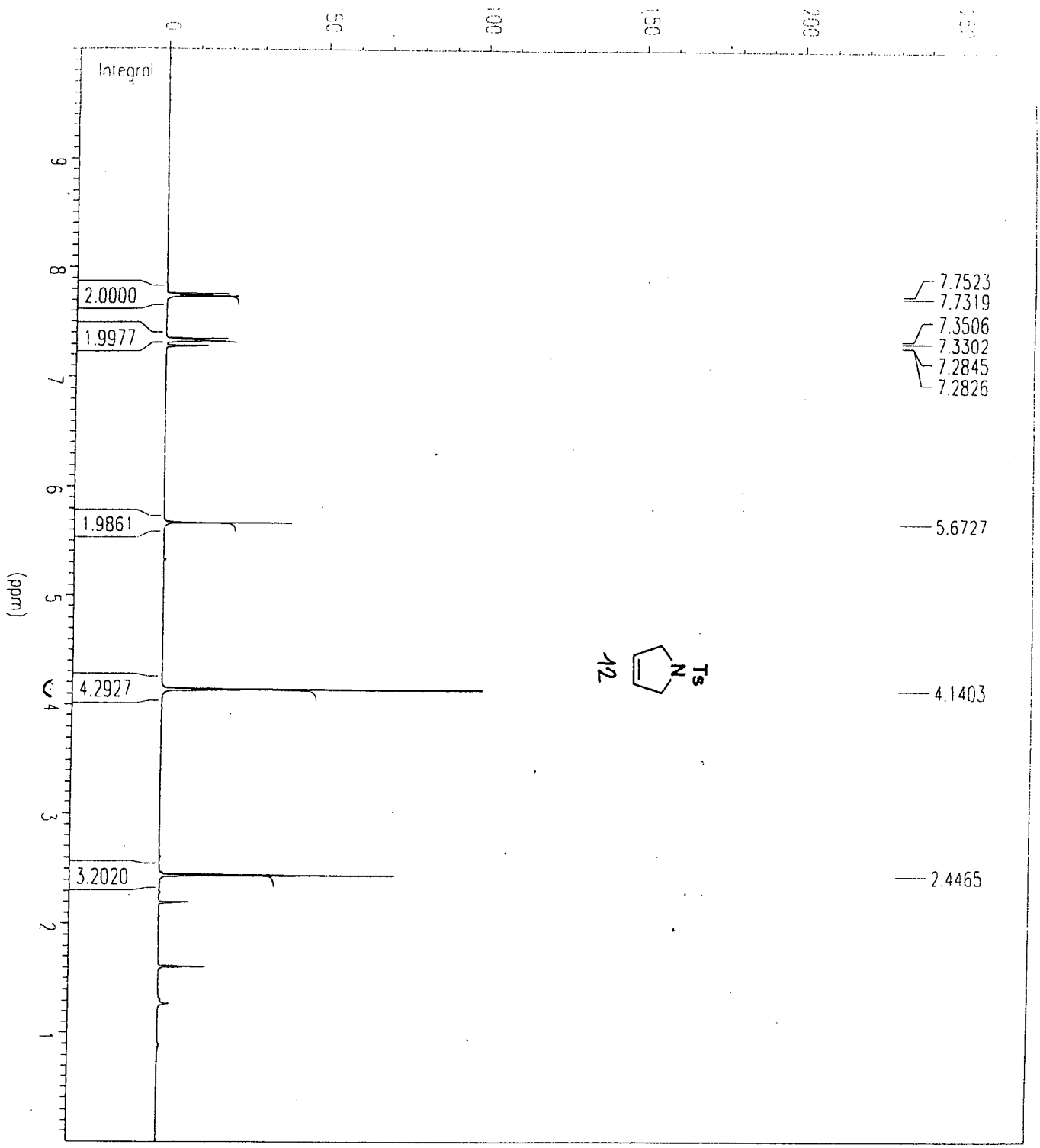
NAME	:	c-mma292
EXPNO	:	1
PROCNO	:	1

*** Acquisition Parameters ***

BF1	:	400.1300000 MHz
DATEt	:	14:57:49
DATEd	:	Jul 17 2002
NS	:	8
NUCLEUS	:	1H
SOLVENT	:	CDCl3
TE	:	300.0 K

*** 1D NMR Plot Parameters ***

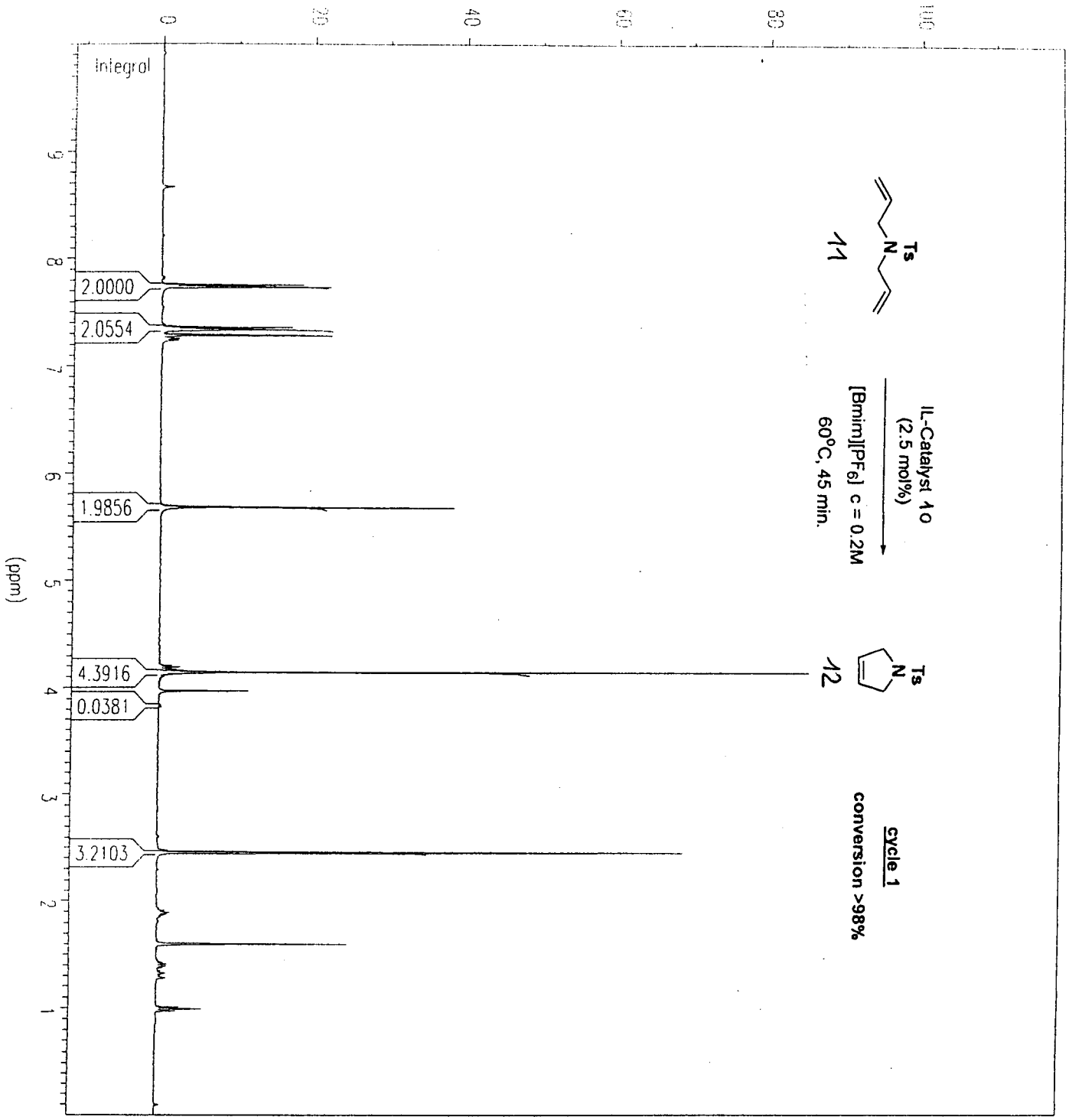
SR	:	0.00 Hz
ppmcm	:	0.52
Hzcm	:	208.40
YWalcm	:	53305624.00
AQtime	:	1.9660800 sec



*** Current Data Parameters ***
NAME : c-mma293
EXPNO : 1
PROCNO : 1

*** Acquisition Parameters ***
BF1 : 400.1300000 MHz
DATEt : 16:18:46
DATEd : Jul 17 2002
NS : 8
NUCLEUS : 1H
SOLVENT : CDCl3
TE : 300.0 K

*** 1D NMR Plot Parameters ***
SR : 0.00 Hz
ppmcm : 0.52
Hzcm : 208.40
YVolcm : 97563096.00
AQtime : 1.9660800 sec

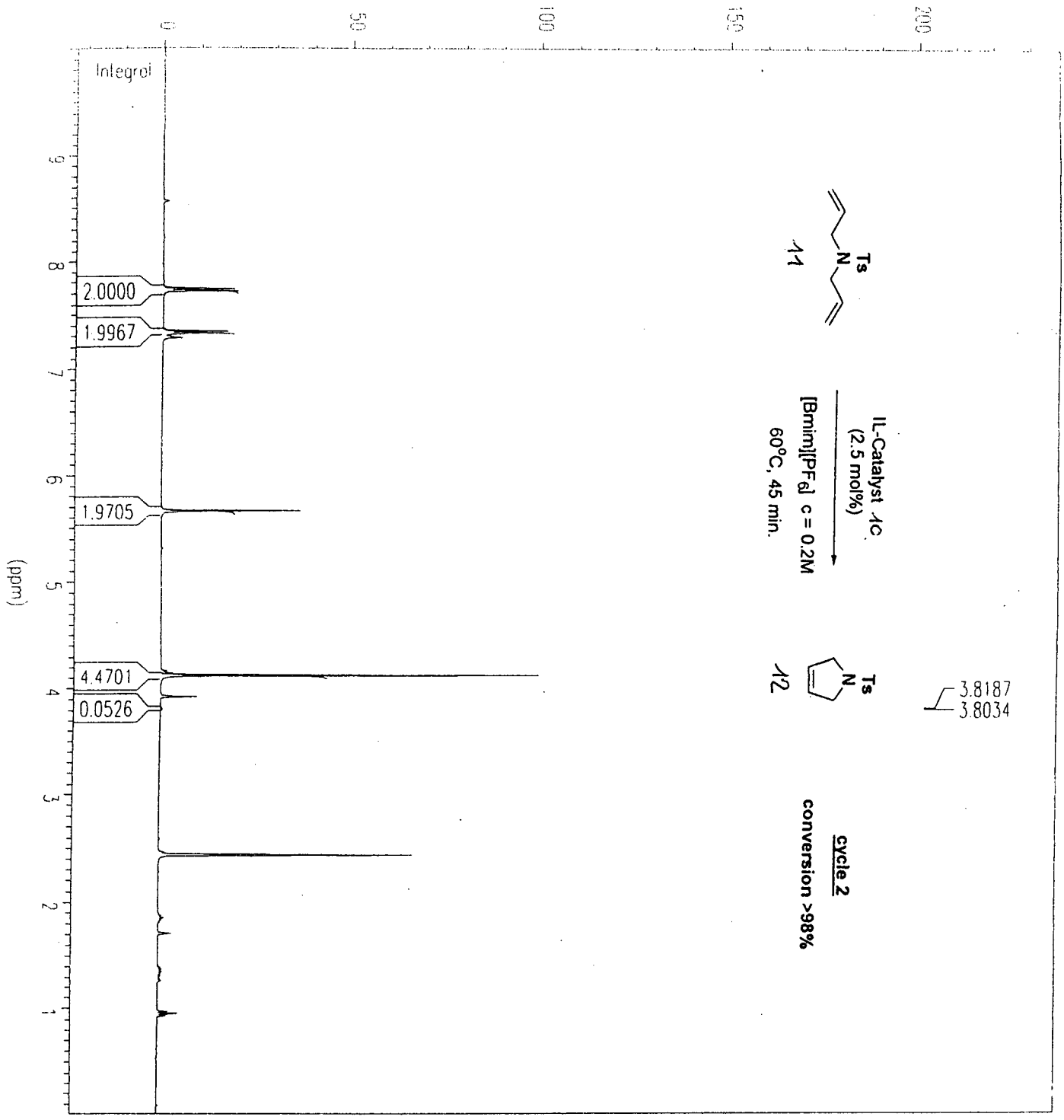


*** Current Data Parameters ***

NAME	:	c-mma294
EXPNO	:	60
PROCNO	:	1

*** 1D NMR Plot Parameters ***

SR	:	-0.00 Hz
ppmcm	:	0.54
Hzcm	:	215.13
YVolcm	:	23812906.00
Rec	:	F1
MPSF	:	1.0000000
AQtime	:	0.8192000 sec

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*** Current Data Parameters ***
NAME            :        c-mma296
EXPNO           :              10
PROCNO          :               1

*** 1D NMR Plot Parameters ***
SR              :           -0.00 Hz
ppmcm           :             0.54
Hzcm            :           215.13
YValcm          :      69028816.00
Rec             :               F1
MPSF            :        1.0000000
AQtime          :        0.8192000 sec
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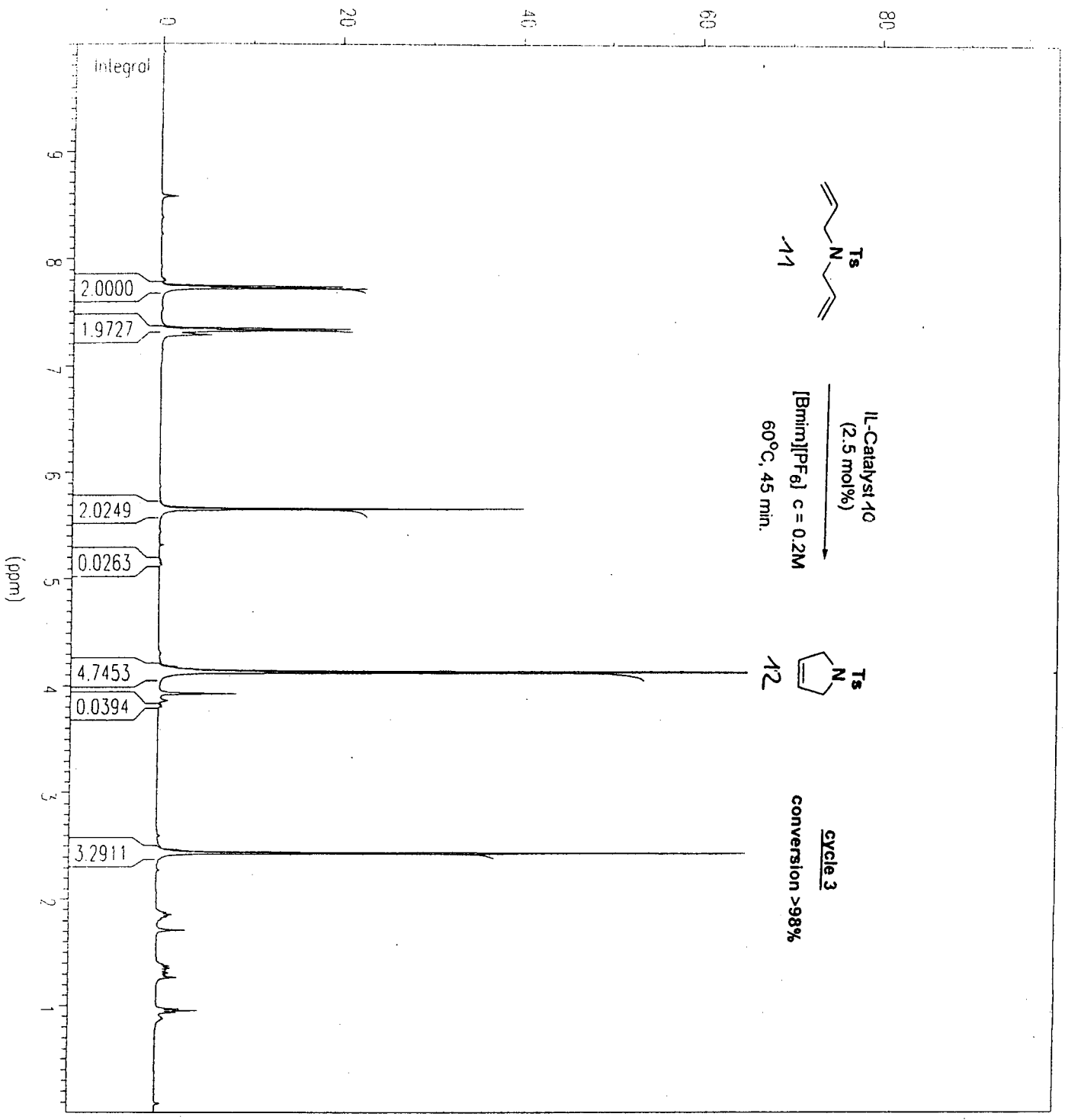


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*** Current Data Parameters ***
NAME                  c-mma297
EXPNO                       10
PROCNO                       1

*** 1D NMR Plot Parameters ***
SR                    -0.00 Hz
ppmcm                    0.54
Hzcm                   215.13
YValcm              32650512.00
Rec                        F1
MPSF                1.0000000
AQtime              0.8192000 sec
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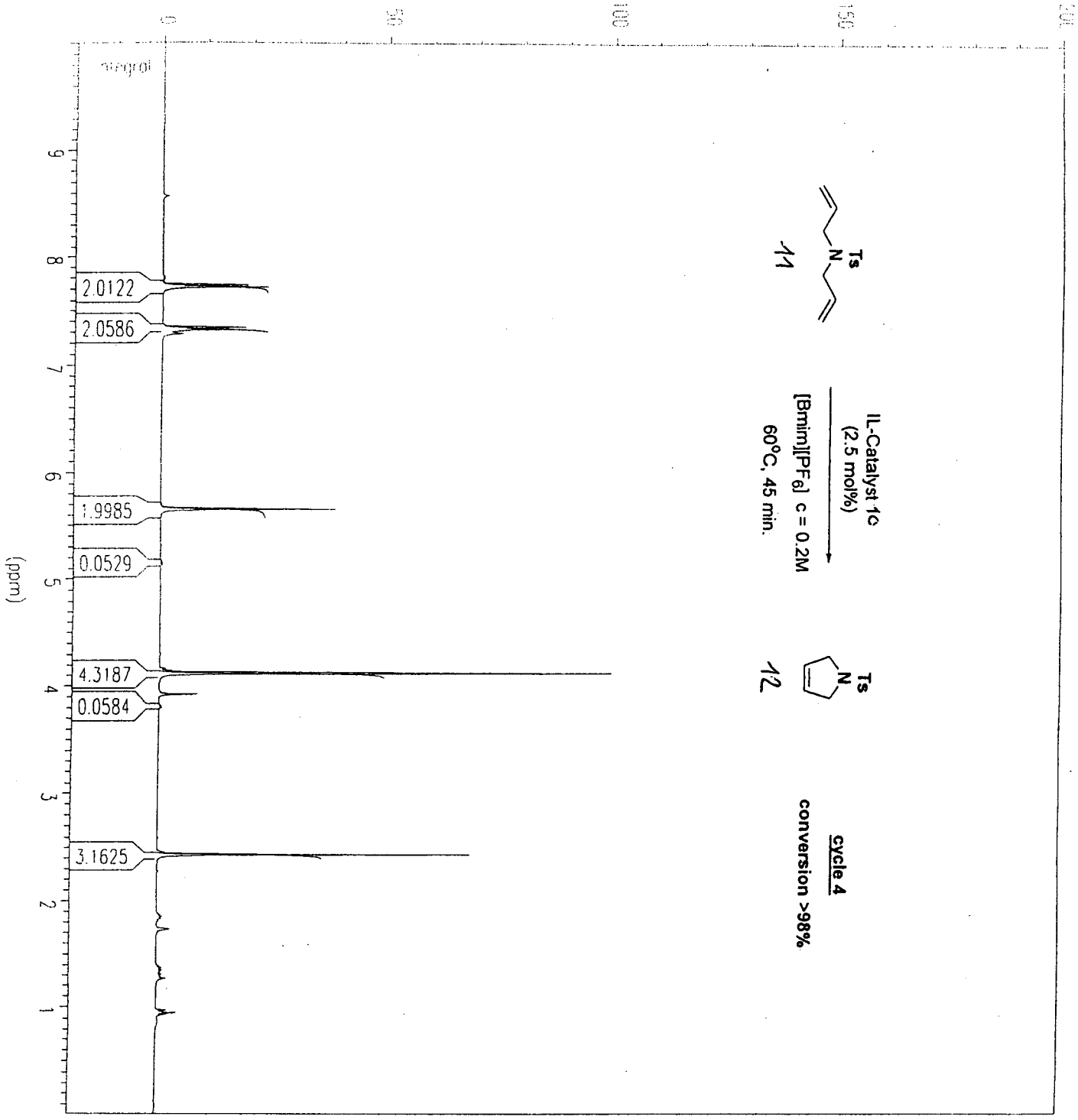


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*** Current Data Parameters ***
NAME                   c-mma298
EXPNO                         2
PROCNO                        1

*** 1D NMR Plot Parameters ***
SR                    -0.00 Hz
ppmcm                     0.54
Hzcm                    215.13
YValcm              46482224.00
Rec                         F1
MPSF                 1.0000000
AQtime               0.8192000 sec
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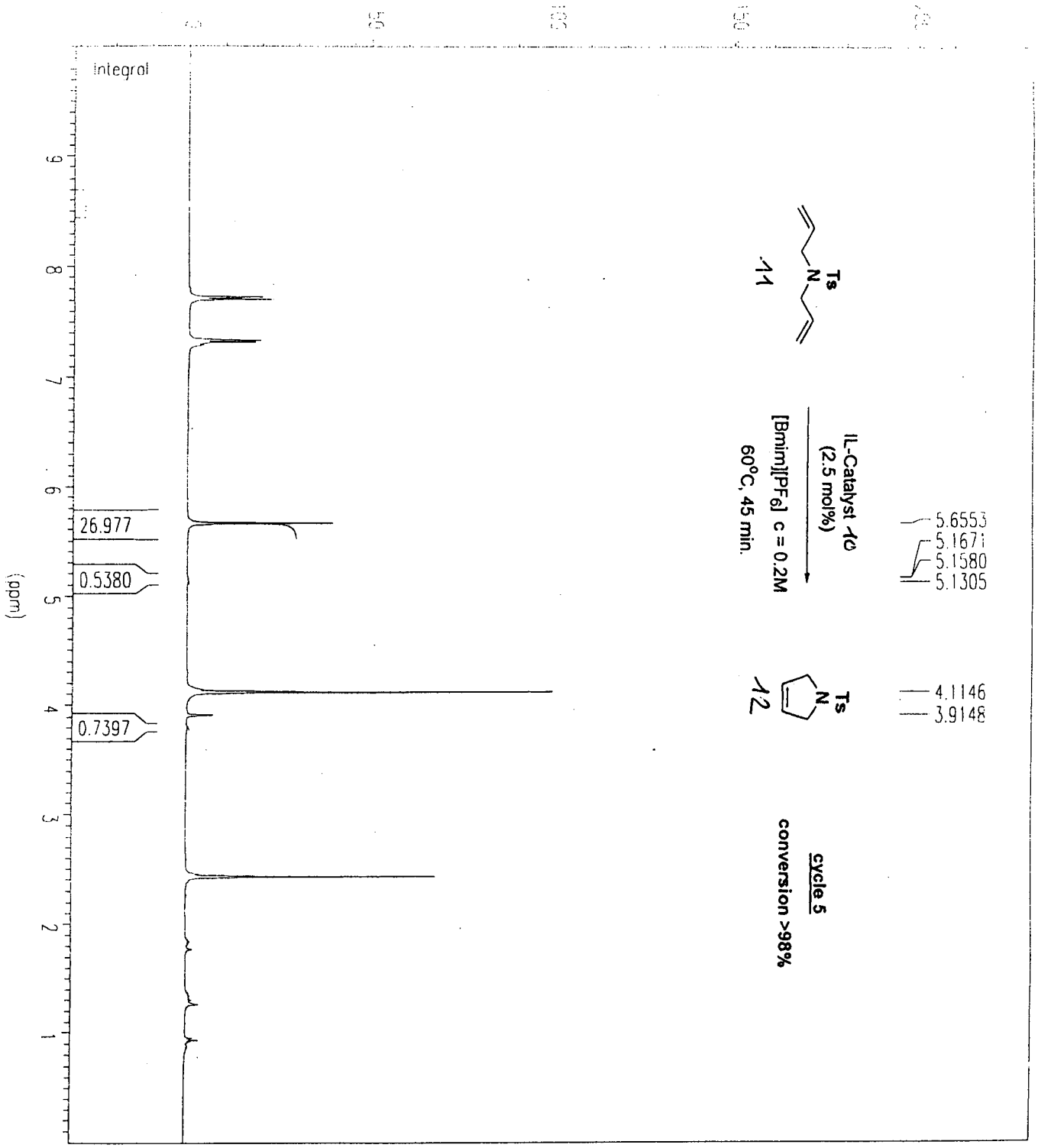


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*** Current Data Parameters ***
NAME                   : c-mma301
EXPNO                  :        2
PROCNO                 :        1

*** Acquisition Parameters ***
BF1                    : 400.1300000 MHz
DATE1                  :    08:09:57
DATEd                  : Jul 24 2002
NS                     :        8
NUCLEUS                :       1H
SOLVENT                :    CDCl3
TE                     :    300.0 K

*** 1D NMR Plot Parameters ***
SR                     :    -0.00 Hz
ppmcm                  :     0.52
Hzcm                   :   208.41
Yvalcm                 : 48544044.00
AQtime                 :  0.8192000 sec
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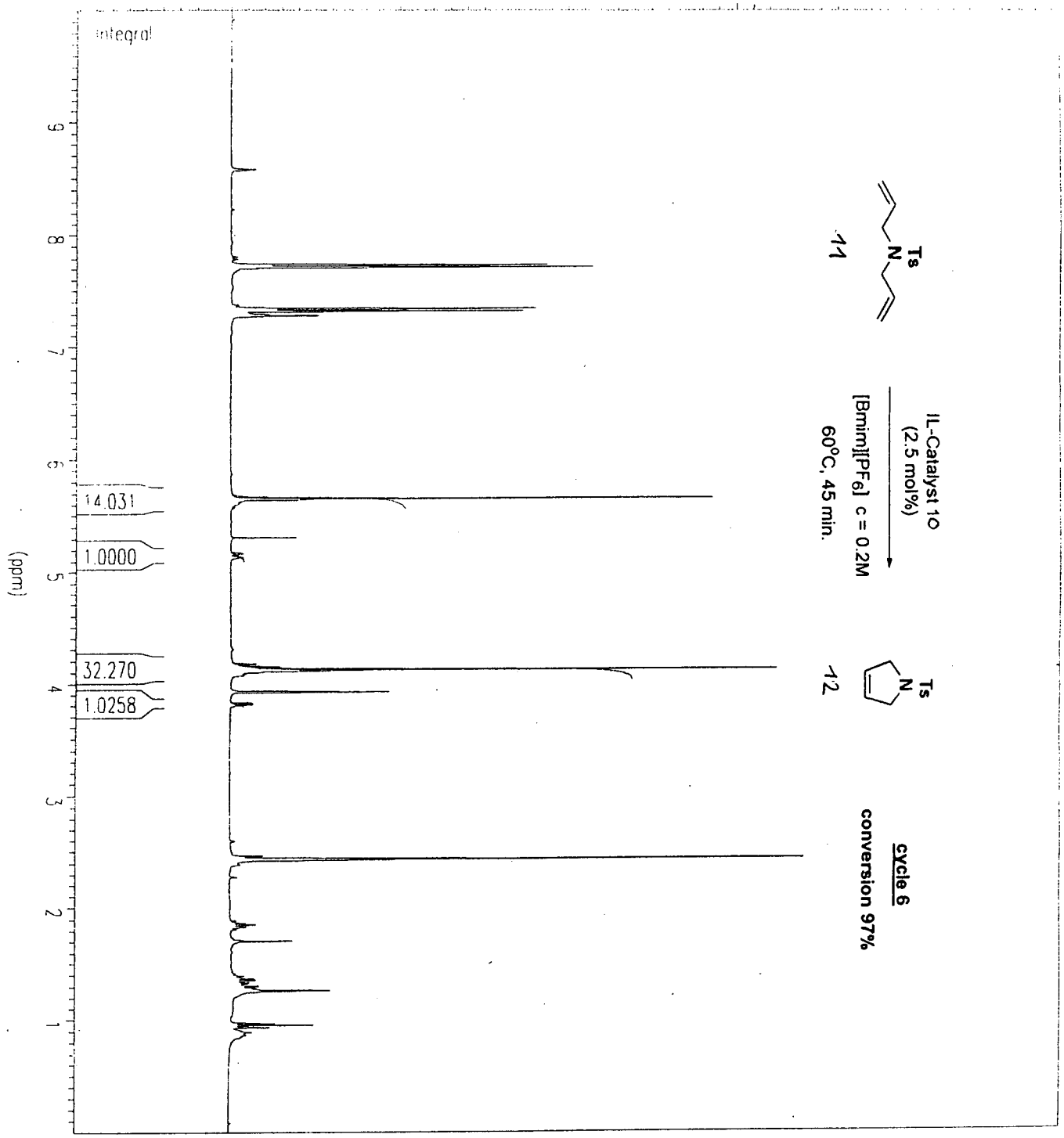


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*** Current Data Parameters ***
NAME                  c-mmc302
EXPNO                 2
PROCNO                1

*** Acquisition Parameters ***
BF1                   400.1300000 MHz
DATEt                 16:12:43
DATEd                 Jul 24 2002
NS                    8
NUCLEUS               1H
SOLVENT               CDCl3
TE                    300.0 K

*** 1D NMR Plot Parameters ***
SR                    -0.00 Hz
ppmcm                 0.52
Hzcm                  208.41
YValcm                14128499.00
AQtime                0.8192000 sec
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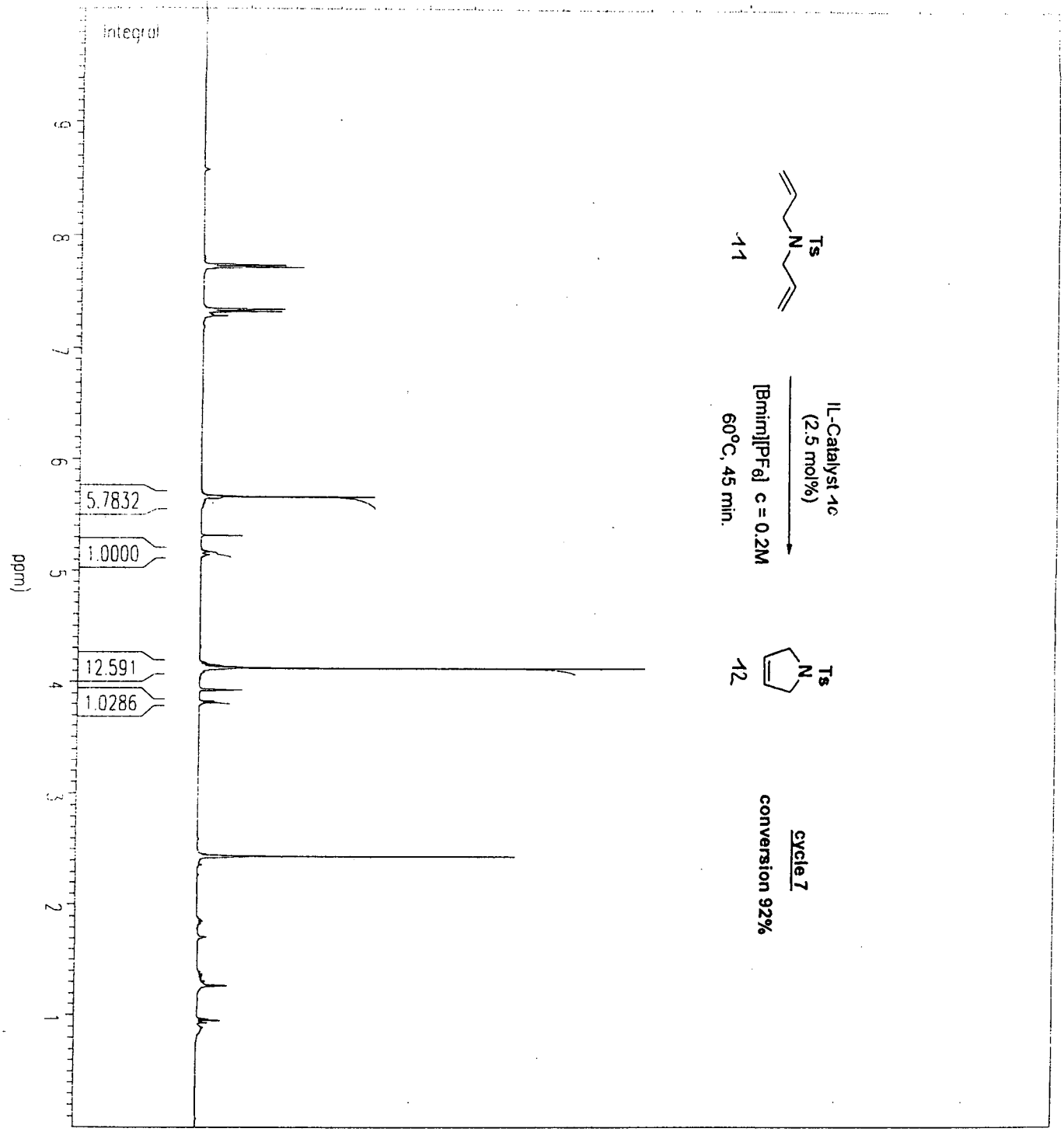


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*** Current Data Parameters ***
NAME                  :  c-mma304
EXPNO                 :  2
PROCNO                :  1

*** Acquisition Parameters ***
BF1                   :  400.1300000 MHz
DATEt                 :  16:25:27
DATEd                 :  Jul 25 2002
NS                    :  8
NUCLEUS               :  1H
SOLVENT               :  CDCl3
TE                    :  300.0 K

*** 1D NMR Plot Parameters ***
SR                    :  -0.00 Hz
ppmcm                 :  0.52
Hzcm                  :  208.41
YVolcm                :  78301688.00
AQtime                :  0.81920000 sec
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