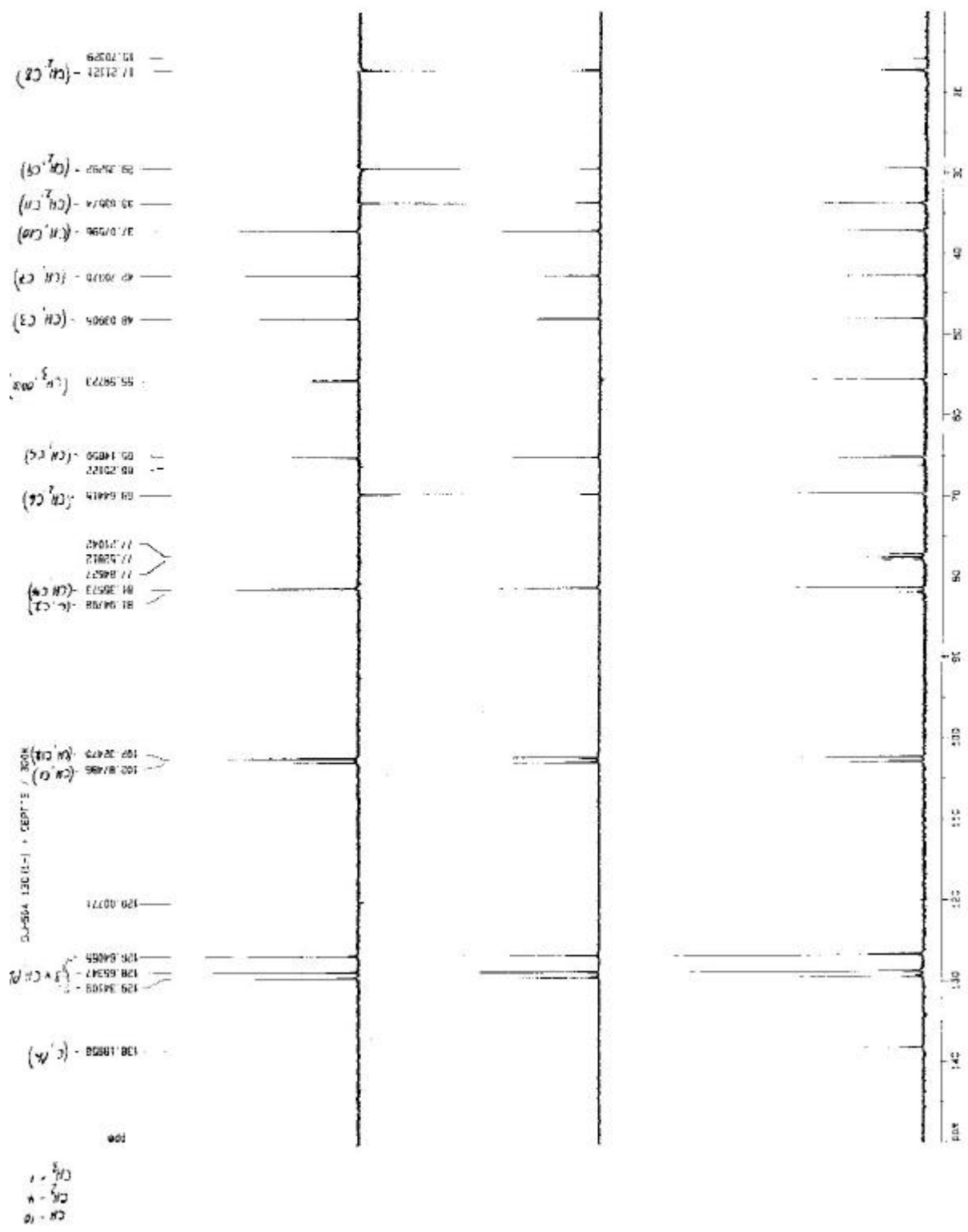


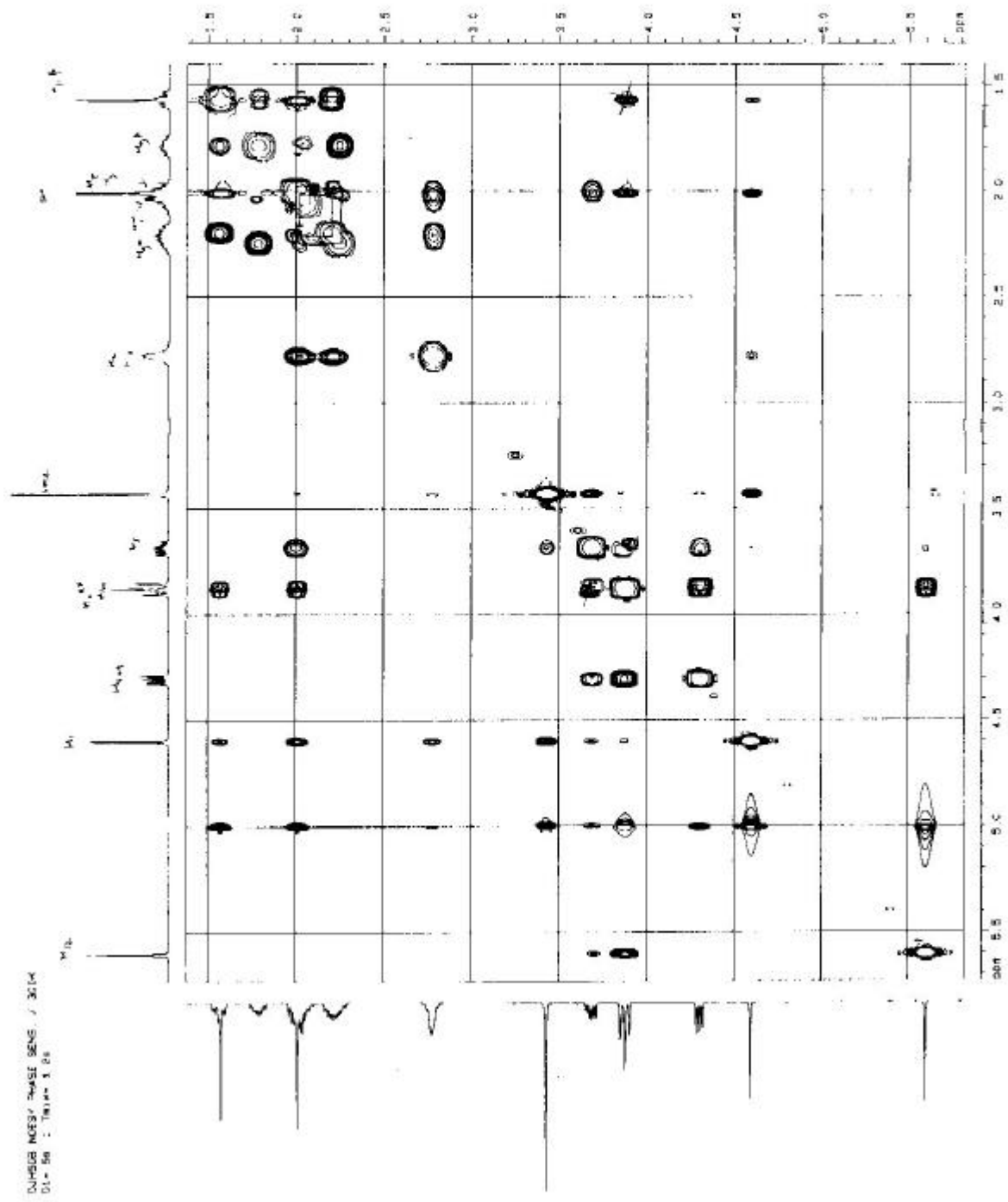
3a X-ray crystal structure – for full details see Ref. 15.



13C NMR Data Parameters
 Name: 3a
 Date: 11/11/04
 Time: 11:55
 Solvent: CDCl3
 P1: 12.00
 F1: 125.76
 SFO: 101.325
 A1: 1.00
 G1: 1.00
 G2: 1.00
 G3: 1.00
 G4: 1.00
 G5: 1.00
 G6: 1.00
 G7: 1.00
 G8: 1.00
 G9: 1.00
 G10: 1.00
 G11: 1.00
 G12: 1.00
 G13: 1.00
 G14: 1.00
 G15: 1.00
 G16: 1.00
 G17: 1.00
 G18: 1.00
 G19: 1.00
 G20: 1.00
 G21: 1.00
 G22: 1.00
 G23: 1.00
 G24: 1.00
 G25: 1.00
 G26: 1.00
 G27: 1.00
 G28: 1.00
 G29: 1.00
 G30: 1.00
 G31: 1.00
 G32: 1.00
 G33: 1.00
 G34: 1.00
 G35: 1.00
 G36: 1.00
 G37: 1.00
 G38: 1.00
 G39: 1.00
 G40: 1.00
 G41: 1.00
 G42: 1.00
 G43: 1.00
 G44: 1.00
 G45: 1.00
 G46: 1.00
 G47: 1.00
 G48: 1.00
 G49: 1.00
 G50: 1.00
 G51: 1.00
 G52: 1.00
 G53: 1.00
 G54: 1.00
 G55: 1.00
 G56: 1.00
 G57: 1.00
 G58: 1.00
 G59: 1.00
 G60: 1.00
 G61: 1.00
 G62: 1.00
 G63: 1.00
 G64: 1.00
 G65: 1.00
 G66: 1.00
 G67: 1.00
 G68: 1.00
 G69: 1.00
 G70: 1.00
 G71: 1.00
 G72: 1.00
 G73: 1.00
 G74: 1.00
 G75: 1.00
 G76: 1.00
 G77: 1.00
 G78: 1.00
 G79: 1.00
 G80: 1.00
 G81: 1.00
 G82: 1.00
 G83: 1.00
 G84: 1.00
 G85: 1.00
 G86: 1.00
 G87: 1.00
 G88: 1.00
 G89: 1.00
 G90: 1.00
 G91: 1.00
 G92: 1.00
 G93: 1.00
 G94: 1.00
 G95: 1.00
 G96: 1.00
 G97: 1.00
 G98: 1.00
 G99: 1.00
 G100: 1.00

3a ¹³C and DEPT

1D-HSQC NOESY PHASE SENS. / 301K
 01-56 : TR1=1.00



Current Date Parameters
 NAME 01-56
 PRODC 1

F2 - Acquisition Parameters
 DSOLV DMSO-D6
 TMR 300.13
 FREQ 400.146300
 PULPROG zgpg30
 ALPHAS 0.000000
 SOLVENT DMSO
 DSOLV DMSO-D6
 NS 1024
 DS 4
 SWH 12000.000
 F2 300.130000
 T 3.000000
 AQ 0.100000
 RG 655.360000
 DB 1.000000
 B1 1.000000
 B2 1.000000
 B3 1.000000
 B4 1.000000
 B5 1.000000
 B6 1.000000
 B7 1.000000
 B8 1.000000
 B9 1.000000
 B10 1.000000
 B11 1.000000
 B12 1.000000
 B13 1.000000
 B14 1.000000
 B15 1.000000
 B16 1.000000
 B17 1.000000
 B18 1.000000
 B19 1.000000
 B20 1.000000

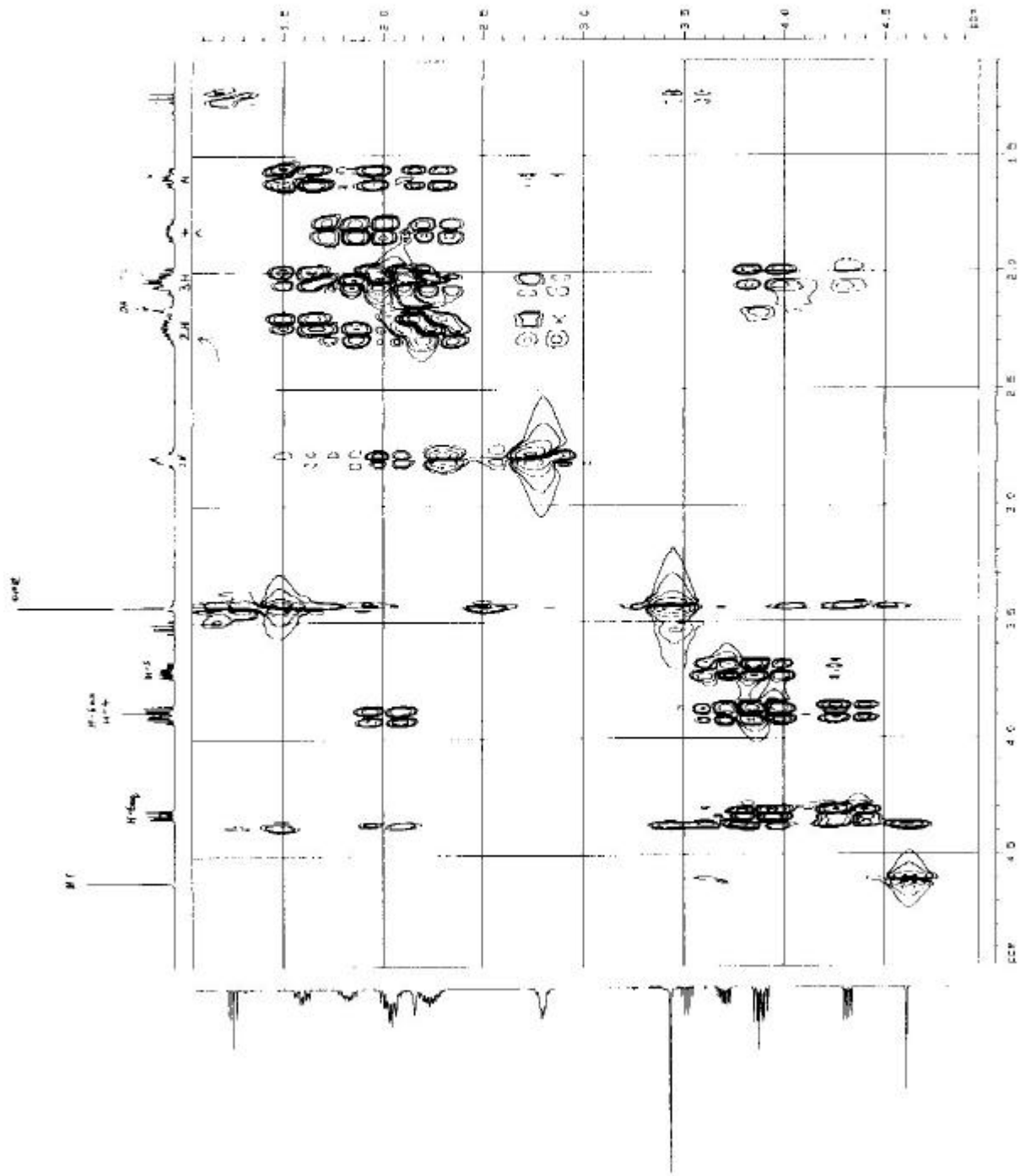
F1 - Processing parameters
 SI 32768
 SF 400.146300
 DS 4
 SWH 12000.000
 FWHM 1.000000
 A 0.000000
 SFO 300.130000
 T 3.000000
 G 0.000000
 W 0.000000
 L 0.000000
 B 0.000000
 Z 0.000000
 GB 0.000000
 PC 1.000000
 MC 1.000000
 MD 1.000000
 ME 1.000000
 MF 1.000000
 MG 1.000000
 MH 1.000000
 MI 1.000000
 MJ 1.000000
 MK 1.000000
 ML 1.000000
 MM 1.000000
 MN 1.000000
 MO 1.000000
 MP 1.000000
 MQ 1.000000
 MR 1.000000
 MS 1.000000
 MT 1.000000
 MU 1.000000
 MV 1.000000
 MW 1.000000
 MX 1.000000
 MY 1.000000
 MZ 1.000000
 N1 1.000000
 N2 1.000000
 N3 1.000000
 N4 1.000000
 N5 1.000000
 N6 1.000000
 N7 1.000000
 N8 1.000000
 N9 1.000000
 N10 1.000000
 N11 1.000000
 N12 1.000000
 N13 1.000000
 N14 1.000000
 N15 1.000000
 N16 1.000000
 N17 1.000000
 N18 1.000000
 N19 1.000000
 N20 1.000000

2D NMR Data Parameters
 SI 32768
 SF 400.146300
 DS 4
 SWH 12000.000
 FWHM 1.000000
 A 0.000000
 SFO 300.130000
 T 3.000000
 G 0.000000
 W 0.000000
 L 0.000000
 B 0.000000
 Z 0.000000
 GB 0.000000
 PC 1.000000
 MC 1.000000
 MD 1.000000
 ME 1.000000
 MF 1.000000
 MG 1.000000
 MH 1.000000
 MI 1.000000
 MJ 1.000000
 MK 1.000000
 ML 1.000000
 MM 1.000000
 MN 1.000000
 MO 1.000000
 MP 1.000000
 MQ 1.000000
 MR 1.000000
 MS 1.000000
 MT 1.000000
 MU 1.000000
 MV 1.000000
 MW 1.000000
 MX 1.000000
 MY 1.000000
 MZ 1.000000
 N1 1.000000
 N2 1.000000
 N3 1.000000
 N4 1.000000
 N5 1.000000
 N6 1.000000
 N7 1.000000
 N8 1.000000
 N9 1.000000
 N10 1.000000
 N11 1.000000
 N12 1.000000
 N13 1.000000
 N14 1.000000
 N15 1.000000
 N16 1.000000
 N17 1.000000
 N18 1.000000
 N19 1.000000
 N20 1.000000

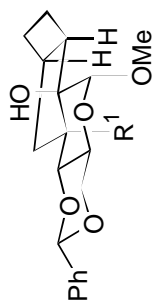
3a NOESY

Current Data Parameters
 NAME: 11005
 EXPNO: 3
 PROCNO: 1

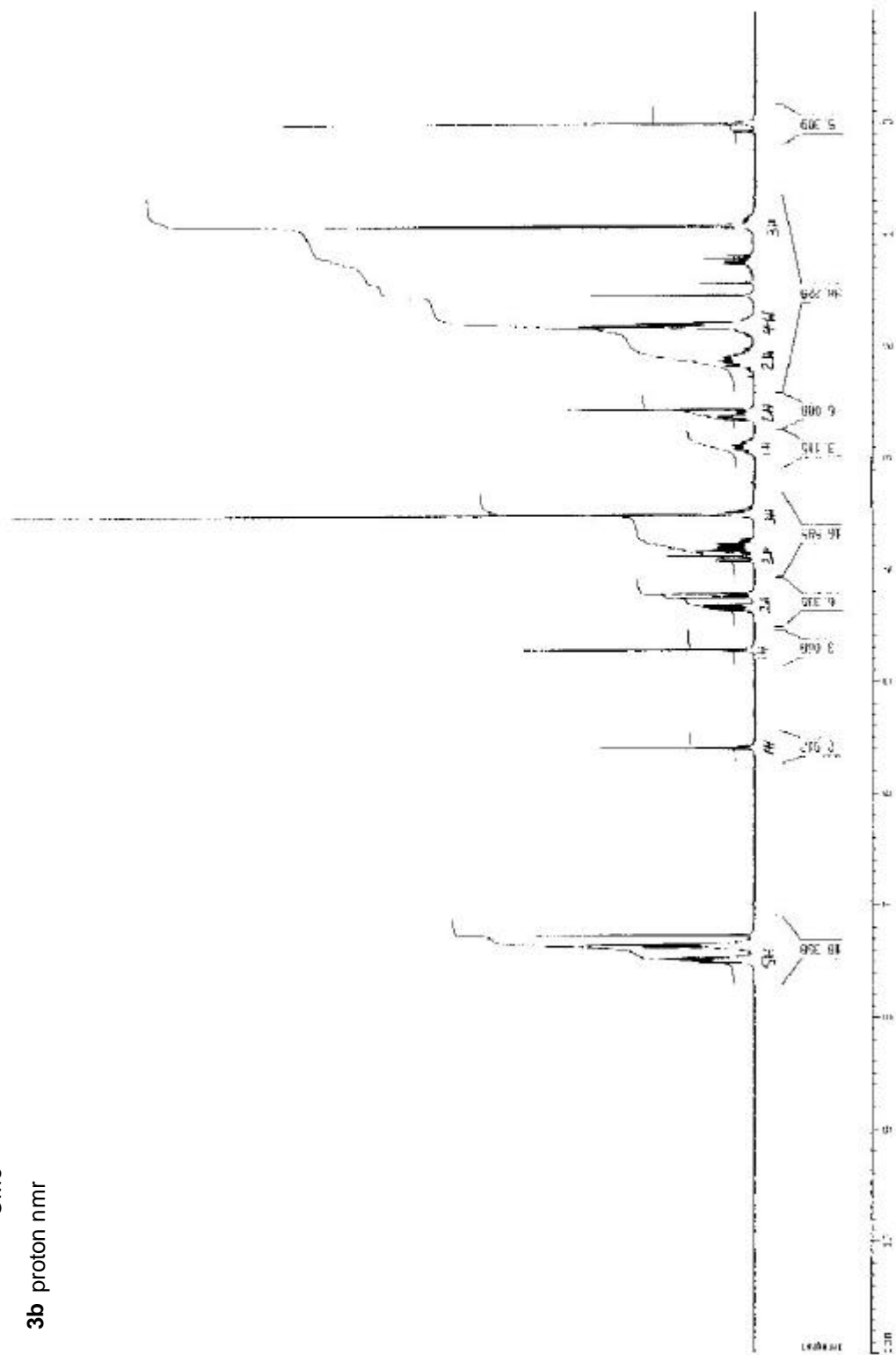
F2 - ACQUISITION PARAMETERS
 DATE_: 20050804
 TIME_: 10.00
 INSTRUM: spect
 PRGNAME: zgpg30
 F2: 500.136134
 PULPROG: zgpg30
 PC: 1024
 GC: 0
 GZ: 0
 DPH: 0
 SFO: 500.136134
 AQ: 1.00000000
 F4: 0.00000000
 SFO2: 0.00000000
 A2: 0.00000000
 F2A2: 0.00000000
 SFOA2: 0.00000000
 A4: 0.00000000
 F2A4: 0.00000000
 SFOA4: 0.00000000
 A6: 0.00000000
 F2A6: 0.00000000
 SFOA6: 0.00000000
 A8: 0.00000000
 F2A8: 0.00000000
 SFOA8: 0.00000000
 A10: 0.00000000
 F2A10: 0.00000000
 SFOA10: 0.00000000
 A12: 0.00000000
 F2A12: 0.00000000
 SFOA12: 0.00000000
 A14: 0.00000000
 F2A14: 0.00000000
 SFOA14: 0.00000000
 A16: 0.00000000
 F2A16: 0.00000000
 SFOA16: 0.00000000
 A18: 0.00000000
 F2A18: 0.00000000
 SFOA18: 0.00000000
 A20: 0.00000000
 F2A20: 0.00000000
 SFOA20: 0.00000000
 A22: 0.00000000
 F2A22: 0.00000000
 SFOA22: 0.00000000
 A24: 0.00000000
 F2A24: 0.00000000
 SFOA24: 0.00000000
 A26: 0.00000000
 F2A26: 0.00000000
 SFOA26: 0.00000000
 A28: 0.00000000
 F2A28: 0.00000000
 SFOA28: 0.00000000
 A30: 0.00000000
 F2A30: 0.00000000
 SFOA30: 0.00000000
 A32: 0.00000000
 F2A32: 0.00000000
 SFOA32: 0.00000000
 A34: 0.00000000
 F2A34: 0.00000000
 SFOA34: 0.00000000
 A36: 0.00000000
 F2A36: 0.00000000
 SFOA36: 0.00000000
 A38: 0.00000000
 F2A38: 0.00000000
 SFOA38: 0.00000000
 A40: 0.00000000
 F2A40: 0.00000000
 SFOA40: 0.00000000
 A42: 0.00000000
 F2A42: 0.00000000
 SFOA42: 0.00000000
 A44: 0.00000000
 F2A44: 0.00000000
 SFOA44: 0.00000000
 A46: 0.00000000
 F2A46: 0.00000000
 SFOA46: 0.00000000
 A48: 0.00000000
 F2A48: 0.00000000
 SFOA48: 0.00000000
 A50: 0.00000000
 F2A50: 0.00000000
 SFOA50: 0.00000000
 A52: 0.00000000
 F2A52: 0.00000000
 SFOA52: 0.00000000
 A54: 0.00000000
 F2A54: 0.00000000
 SFOA54: 0.00000000
 A56: 0.00000000
 F2A56: 0.00000000
 SFOA56: 0.00000000
 A58: 0.00000000
 F2A58: 0.00000000
 SFOA58: 0.00000000
 A60: 0.00000000
 F2A60: 0.00000000
 SFOA60: 0.00000000
 A62: 0.00000000
 F2A62: 0.00000000
 SFOA62: 0.00000000
 A64: 0.00000000
 F2A64: 0.00000000
 SFOA64: 0.00000000
 A66: 0.00000000
 F2A66: 0.00000000
 SFOA66: 0.00000000
 A68: 0.00000000
 F2A68: 0.00000000
 SFOA68: 0.00000000
 A70: 0.00000000
 F2A70: 0.00000000
 SFOA70: 0.00000000
 A72: 0.00000000
 F2A72: 0.00000000
 SFOA72: 0.00000000
 A74: 0.00000000
 F2A74: 0.00000000
 SFOA74: 0.00000000
 A76: 0.00000000
 F2A76: 0.00000000
 SFOA76: 0.00000000
 A78: 0.00000000
 F2A78: 0.00000000
 SFOA78: 0.00000000
 A80: 0.00000000
 F2A80: 0.00000000
 SFOA80: 0.00000000
 A82: 0.00000000
 F2A82: 0.00000000
 SFOA82: 0.00000000
 A84: 0.00000000
 F2A84: 0.00000000
 SFOA84: 0.00000000
 A86: 0.00000000
 F2A86: 0.00000000
 SFOA86: 0.00000000
 A88: 0.00000000
 F2A88: 0.00000000
 SFOA88: 0.00000000
 A90: 0.00000000
 F2A90: 0.00000000
 SFOA90: 0.00000000
 A92: 0.00000000
 F2A92: 0.00000000
 SFOA92: 0.00000000
 A94: 0.00000000
 F2A94: 0.00000000
 SFOA94: 0.00000000
 A96: 0.00000000
 F2A96: 0.00000000
 SFOA96: 0.00000000
 A98: 0.00000000
 F2A98: 0.00000000
 SFOA98: 0.00000000
 A100: 0.00000000
 F2A100: 0.00000000
 SFOA100: 0.00000000



3a COSY



3b proton nmr



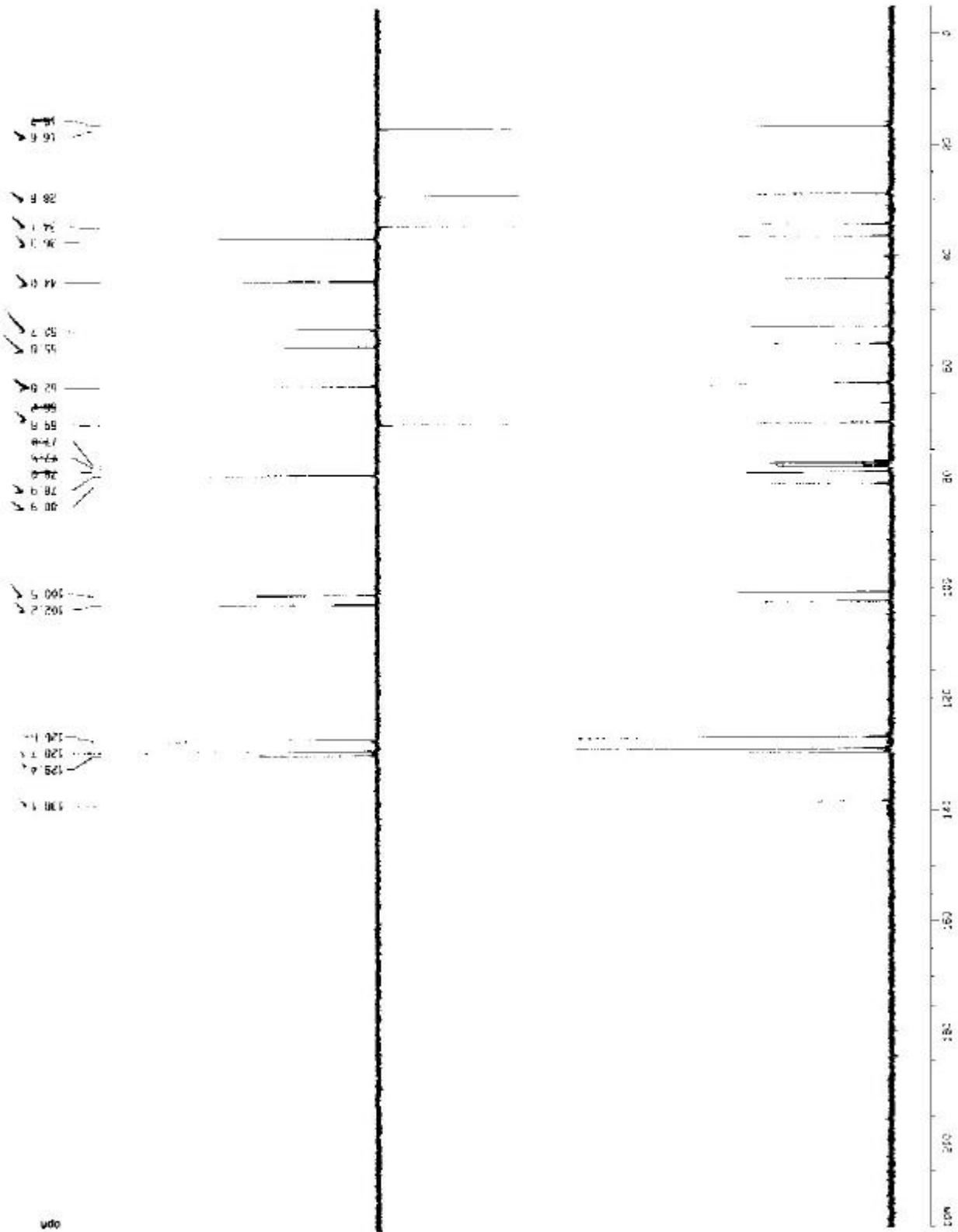
Current Data Parameters
 NAME: EPT154
 EXPNO: 2
 PROCNO: 1

12 - Acquisition Parameters
 Date_ Time: 06/21/15
 12:15
 PULPROG: zgpg30
 SOLVENT: DMSO
 AS: 3.1765358440
 F1 F2: C 252.507 P2
 DE: 57.0 MHz
 BE: 5430
 NUC1E15: 1H
 DE: 1.0000000000
 F1: 500.136461
 DE: 128.130000
 SFO1: 250.136461 MHz
 SWH: 5152.54 MHz
 F0: 500.136461
 XQ: 10
 YQ: 10
 ZQ: 0

13 - Processing parameters
 SI: 32768
 SF: 250.136461 MHz
 MD: EM
 SB: C
 LB: 0.30 Hz
 GB: 0
 RB: 1.00

10 - Acquisition parameters
 CA: 30.00 deg
 F1: 252.507 MHz
 F2: 500.136461 MHz
 PWDW: 2.4200000000
 ACD: 0.0000000000

udo



Current Data Parameters
NAME 21-583
EXPNO 12
PROCNO 1

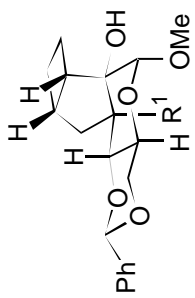
F2 - Acquisition Parameters
Date_ 200508
Time 15:19
PULPROG zgpg30
SOLVENT DMSO
AQ 1.6564200 sec
RG 327.000 Hz
Dk 35.0 uHz
PC 38768

NAME 13C
D1 0.000000 sec
D2 18.000000 sec
D3 1.000000 sec
D4 100.000000 sec
D5 18.000000 sec
D6 7.000000 sec
D7 35.700000 sec
SFO1 62.845587 MHz
SFO2 300.000000 MHz
SFO3 62.845587 MHz
SFO4 300.000000 MHz
SFO5 62.845587 MHz
SFO6 300.000000 MHz
SFO7 62.845587 MHz
SFO8 300.000000 MHz
SFO9 62.845587 MHz
SFO10 300.000000 MHz
SFO11 62.845587 MHz
SFO12 300.000000 MHz
SFO13 62.845587 MHz
SFO14 300.000000 MHz
SFO15 62.845587 MHz
SFO16 300.000000 MHz
SFO17 62.845587 MHz
SFO18 300.000000 MHz
SFO19 62.845587 MHz
SFO20 300.000000 MHz
SFO21 62.845587 MHz
SFO22 300.000000 MHz
SFO23 62.845587 MHz
SFO24 300.000000 MHz
SFO25 62.845587 MHz
SFO26 300.000000 MHz
SFO27 62.845587 MHz
SFO28 300.000000 MHz
SFO29 62.845587 MHz
SFO30 300.000000 MHz
SFO31 62.845587 MHz
SFO32 300.000000 MHz
SFO33 62.845587 MHz
SFO34 300.000000 MHz
SFO35 62.845587 MHz
SFO36 300.000000 MHz
SFO37 62.845587 MHz
SFO38 300.000000 MHz
SFO39 62.845587 MHz
SFO40 300.000000 MHz
SFO41 62.845587 MHz
SFO42 300.000000 MHz
SFO43 62.845587 MHz
SFO44 300.000000 MHz
SFO45 62.845587 MHz
SFO46 300.000000 MHz
SFO47 62.845587 MHz
SFO48 300.000000 MHz
SFO49 62.845587 MHz
SFO50 300.000000 MHz
SFO51 62.845587 MHz
SFO52 300.000000 MHz
SFO53 62.845587 MHz
SFO54 300.000000 MHz
SFO55 62.845587 MHz
SFO56 300.000000 MHz
SFO57 62.845587 MHz
SFO58 300.000000 MHz
SFO59 62.845587 MHz
SFO60 300.000000 MHz
SFO61 62.845587 MHz
SFO62 300.000000 MHz
SFO63 62.845587 MHz
SFO64 300.000000 MHz
SFO65 62.845587 MHz
SFO66 300.000000 MHz
SFO67 62.845587 MHz
SFO68 300.000000 MHz
SFO69 62.845587 MHz
SFO70 300.000000 MHz
SFO71 62.845587 MHz
SFO72 300.000000 MHz
SFO73 62.845587 MHz
SFO74 300.000000 MHz
SFO75 62.845587 MHz
SFO76 300.000000 MHz
SFO77 62.845587 MHz
SFO78 300.000000 MHz
SFO79 62.845587 MHz
SFO80 300.000000 MHz
SFO81 62.845587 MHz
SFO82 300.000000 MHz
SFO83 62.845587 MHz
SFO84 300.000000 MHz
SFO85 62.845587 MHz
SFO86 300.000000 MHz
SFO87 62.845587 MHz
SFO88 300.000000 MHz
SFO89 62.845587 MHz
SFO90 300.000000 MHz
SFO91 62.845587 MHz
SFO92 300.000000 MHz
SFO93 62.845587 MHz
SFO94 300.000000 MHz
SFO95 62.845587 MHz
SFO96 300.000000 MHz
SFO97 62.845587 MHz
SFO98 300.000000 MHz
SFO99 62.845587 MHz
SFO100 300.000000 MHz
SFO101 62.845587 MHz
SFO102 300.000000 MHz
SFO103 62.845587 MHz
SFO104 300.000000 MHz
SFO105 62.845587 MHz
SFO106 300.000000 MHz
SFO107 62.845587 MHz
SFO108 300.000000 MHz
SFO109 62.845587 MHz
SFO110 300.000000 MHz
SFO111 62.845587 MHz
SFO112 300.000000 MHz
SFO113 62.845587 MHz
SFO114 300.000000 MHz
SFO115 62.845587 MHz
SFO116 300.000000 MHz
SFO117 62.845587 MHz
SFO118 300.000000 MHz
SFO119 62.845587 MHz
SFO120 300.000000 MHz
SFO121 62.845587 MHz
SFO122 300.000000 MHz
SFO123 62.845587 MHz
SFO124 300.000000 MHz
SFO125 62.845587 MHz
SFO126 300.000000 MHz
SFO127 62.845587 MHz
SFO128 300.000000 MHz
SFO129 62.845587 MHz
SFO130 300.000000 MHz
SFO131 62.845587 MHz
SFO132 300.000000 MHz
SFO133 62.845587 MHz
SFO134 300.000000 MHz
SFO135 62.845587 MHz
SFO136 300.000000 MHz
SFO137 62.845587 MHz
SFO138 300.000000 MHz
SFO139 62.845587 MHz
SFO140 300.000000 MHz
SFO141 62.845587 MHz
SFO142 300.000000 MHz
SFO143 62.845587 MHz
SFO144 300.000000 MHz
SFO145 62.845587 MHz
SFO146 300.000000 MHz
SFO147 62.845587 MHz
SFO148 300.000000 MHz
SFO149 62.845587 MHz
SFO150 300.000000 MHz
SFO151 62.845587 MHz
SFO152 300.000000 MHz
SFO153 62.845587 MHz
SFO154 300.000000 MHz
SFO155 62.845587 MHz
SFO156 300.000000 MHz
SFO157 62.845587 MHz
SFO158 300.000000 MHz
SFO159 62.845587 MHz
SFO160 300.000000 MHz
SFO161 62.845587 MHz
SFO162 300.000000 MHz
SFO163 62.845587 MHz
SFO164 300.000000 MHz
SFO165 62.845587 MHz
SFO166 300.000000 MHz
SFO167 62.845587 MHz
SFO168 300.000000 MHz
SFO169 62.845587 MHz
SFO170 300.000000 MHz
SFO171 62.845587 MHz
SFO172 300.000000 MHz
SFO173 62.845587 MHz
SFO174 300.000000 MHz
SFO175 62.845587 MHz
SFO176 300.000000 MHz
SFO177 62.845587 MHz
SFO178 300.000000 MHz
SFO179 62.845587 MHz
SFO180 300.000000 MHz
SFO181 62.845587 MHz
SFO182 300.000000 MHz
SFO183 62.845587 MHz
SFO184 300.000000 MHz
SFO185 62.845587 MHz
SFO186 300.000000 MHz
SFO187 62.845587 MHz
SFO188 300.000000 MHz
SFO189 62.845587 MHz
SFO190 300.000000 MHz
SFO191 62.845587 MHz
SFO192 300.000000 MHz
SFO193 62.845587 MHz
SFO194 300.000000 MHz
SFO195 62.845587 MHz
SFO196 300.000000 MHz
SFO197 62.845587 MHz
SFO198 300.000000 MHz
SFO199 62.845587 MHz
SFO200 300.000000 MHz

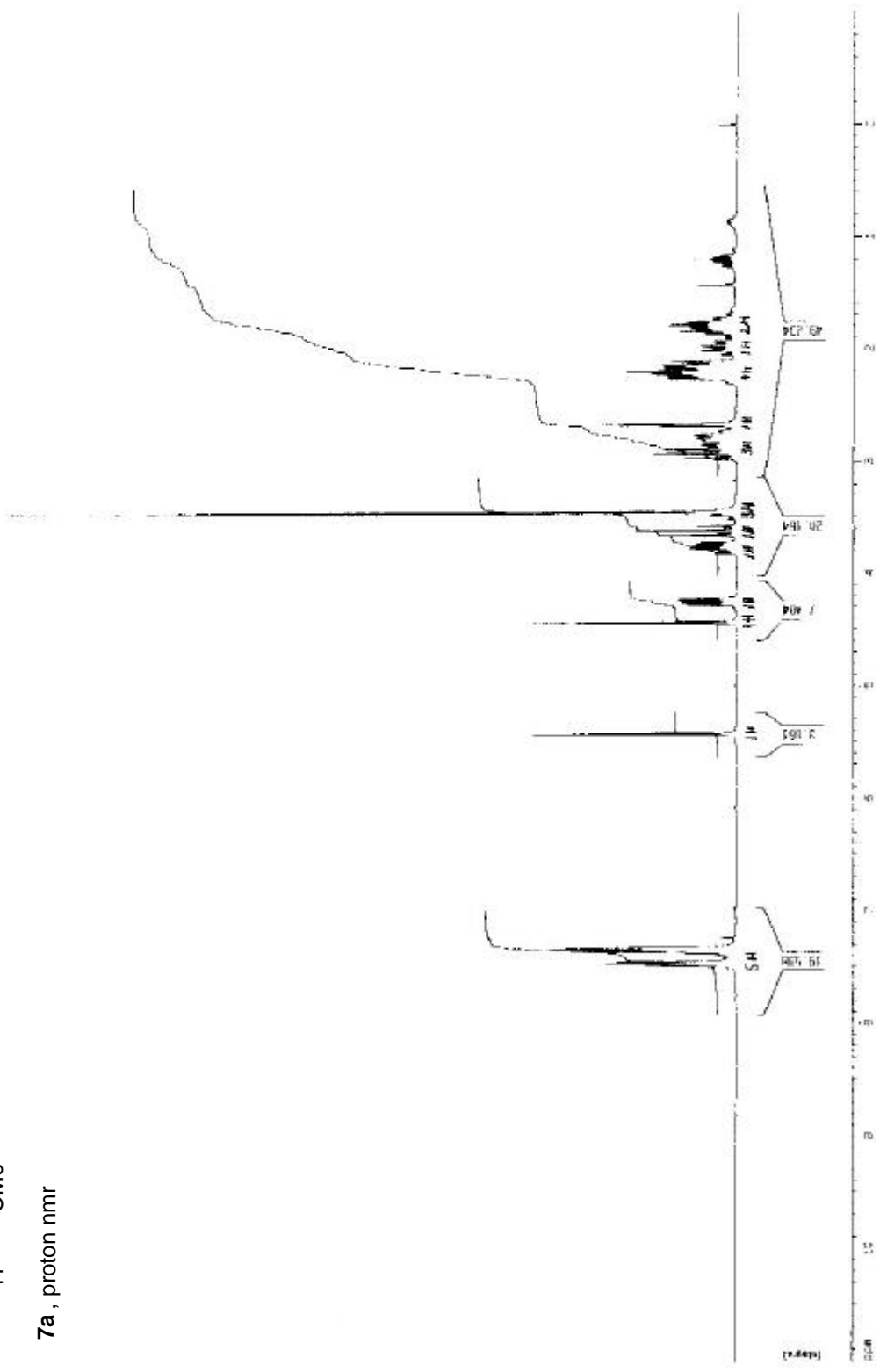
F2 - Processing parameters
SI 32768
SF 300.000000 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

F2 - MVD parameters
Dk 35.000000 Hz
F2 315.000000 MHz
F3 300.000000 MHz
F4 300.000000 MHz
F5 300.000000 MHz
F6 300.000000 MHz
F7 300.000000 MHz
F8 300.000000 MHz
F9 300.000000 MHz
F10 300.000000 MHz
F11 300.000000 MHz
F12 300.000000 MHz
F13 300.000000 MHz
F14 300.000000 MHz
F15 300.000000 MHz
F16 300.000000 MHz
F17 300.000000 MHz
F18 300.000000 MHz
F19 300.000000 MHz
F20 300.000000 MHz
F21 300.000000 MHz
F22 300.000000 MHz
F23 300.000000 MHz
F24 300.000000 MHz
F25 300.000000 MHz
F26 300.000000 MHz
F27 300.000000 MHz
F28 300.000000 MHz
F29 300.000000 MHz
F30 300.000000 MHz
F31 300.000000 MHz
F32 300.000000 MHz
F33 300.000000 MHz
F34 300.000000 MHz
F35 300.000000 MHz
F36 300.000000 MHz
F37 300.000000 MHz
F38 300.000000 MHz
F39 300.000000 MHz
F40 300.000000 MHz
F41 300.000000 MHz
F42 300.000000 MHz
F43 300.000000 MHz
F44 300.000000 MHz
F45 300.000000 MHz
F46 300.000000 MHz
F47 300.000000 MHz
F48 300.000000 MHz
F49 300.000000 MHz
F50 300.000000 MHz
F51 300.000000 MHz
F52 300.000000 MHz
F53 300.000000 MHz
F54 300.000000 MHz
F55 300.000000 MHz
F56 300.000000 MHz
F57 300.000000 MHz
F58 300.000000 MHz
F59 300.000000 MHz
F60 300.000000 MHz
F61 300.000000 MHz
F62 300.000000 MHz
F63 300.000000 MHz
F64 300.000000 MHz
F65 300.000000 MHz
F66 300.000000 MHz
F67 300.000000 MHz
F68 300.000000 MHz
F69 300.000000 MHz
F70 300.000000 MHz
F71 300.000000 MHz
F72 300.000000 MHz
F73 300.000000 MHz
F74 300.000000 MHz
F75 300.000000 MHz
F76 300.000000 MHz
F77 300.000000 MHz
F78 300.000000 MHz
F79 300.000000 MHz
F80 300.000000 MHz
F81 300.000000 MHz
F82 300.000000 MHz
F83 300.000000 MHz
F84 300.000000 MHz
F85 300.000000 MHz
F86 300.000000 MHz
F87 300.000000 MHz
F88 300.000000 MHz
F89 300.000000 MHz
F90 300.000000 MHz
F91 300.000000 MHz
F92 300.000000 MHz
F93 300.000000 MHz
F94 300.000000 MHz
F95 300.000000 MHz
F96 300.000000 MHz
F97 300.000000 MHz
F98 300.000000 MHz
F99 300.000000 MHz
F100 300.000000 MHz
F101 300.000000 MHz
F102 300.000000 MHz
F103 300.000000 MHz
F104 300.000000 MHz
F105 300.000000 MHz
F106 300.000000 MHz
F107 300.000000 MHz
F108 300.000000 MHz
F109 300.000000 MHz
F110 300.000000 MHz
F111 300.000000 MHz
F112 300.000000 MHz
F113 300.000000 MHz
F114 300.000000 MHz
F115 300.000000 MHz
F116 300.000000 MHz
F117 300.000000 MHz
F118 300.000000 MHz
F119 300.000000 MHz
F120 300.000000 MHz
F121 300.000000 MHz
F122 300.000000 MHz
F123 300.000000 MHz
F124 300.000000 MHz
F125 300.000000 MHz
F126 300.000000 MHz
F127 300.000000 MHz
F128 300.000000 MHz
F129 300.000000 MHz
F130 300.000000 MHz
F131 300.000000 MHz
F132 300.000000 MHz
F133 300.000000 MHz
F134 300.000000 MHz
F135 300.000000 MHz
F136 300.000000 MHz
F137 300.000000 MHz
F138 300.000000 MHz
F139 300.000000 MHz
F140 300.000000 MHz
F141 300.000000 MHz
F142 300.000000 MHz
F143 300.000000 MHz
F144 300.000000 MHz
F145 300.000000 MHz
F146 300.000000 MHz
F147 300.000000 MHz
F148 300.000000 MHz
F149 300.000000 MHz
F150 300.000000 MHz
F151 300.000000 MHz
F152 300.000000 MHz
F153 300.000000 MHz
F154 300.000000 MHz
F155 300.000000 MHz
F156 300.000000 MHz
F157 300.000000 MHz
F158 300.000000 MHz
F159 300.000000 MHz
F160 300.000000 MHz
F161 300.000000 MHz
F162 300.000000 MHz
F163 300.000000 MHz
F164 300.000000 MHz
F165 300.000000 MHz
F166 300.000000 MHz
F167 300.000000 MHz
F168 300.000000 MHz
F169 300.000000 MHz
F170 300.000000 MHz
F171 300.000000 MHz
F172 300.000000 MHz
F173 300.000000 MHz
F174 300.000000 MHz
F175 300.000000 MHz
F176 300.000000 MHz
F177 300.000000 MHz
F178 300.000000 MHz
F179 300.000000 MHz
F180 300.000000 MHz
F181 300.000000 MHz
F182 300.000000 MHz
F183 300.000000 MHz
F184 300.000000 MHz
F185 300.000000 MHz
F186 300.000000 MHz
F187 300.000000 MHz
F188 300.000000 MHz
F189 300.000000 MHz
F190 300.000000 MHz
F191 300.000000 MHz
F192 300.000000 MHz
F193 300.000000 MHz
F194 300.000000 MHz
F195 300.000000 MHz
F196 300.000000 MHz
F197 300.000000 MHz
F198 300.000000 MHz
F199 300.000000 MHz
F200 300.000000 MHz

4 ¹³C and DEPT



7a, proton nmr

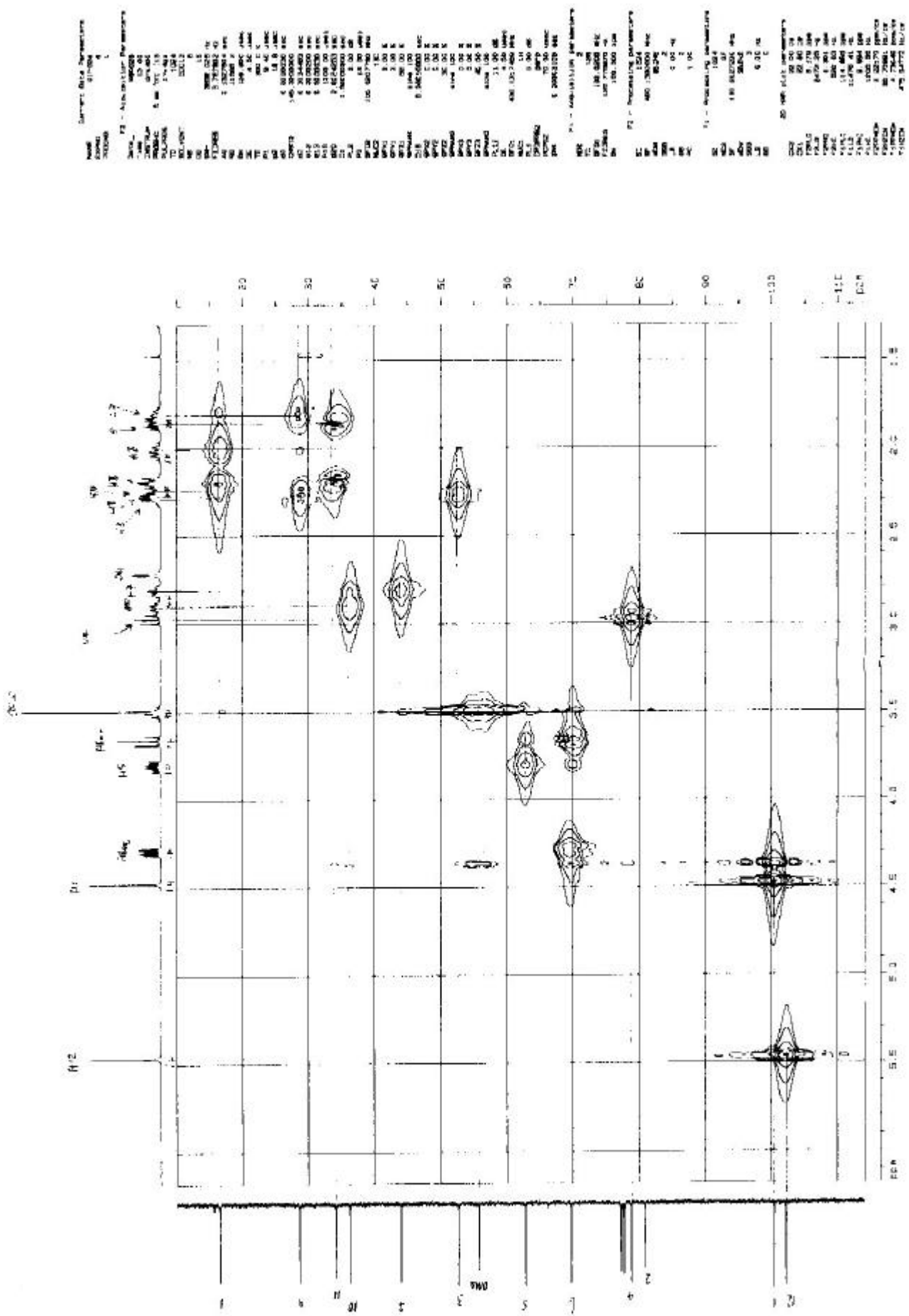


Content Data Parameters
 NAME: 0110829
 EXONUM: 11
 PROTON: 1

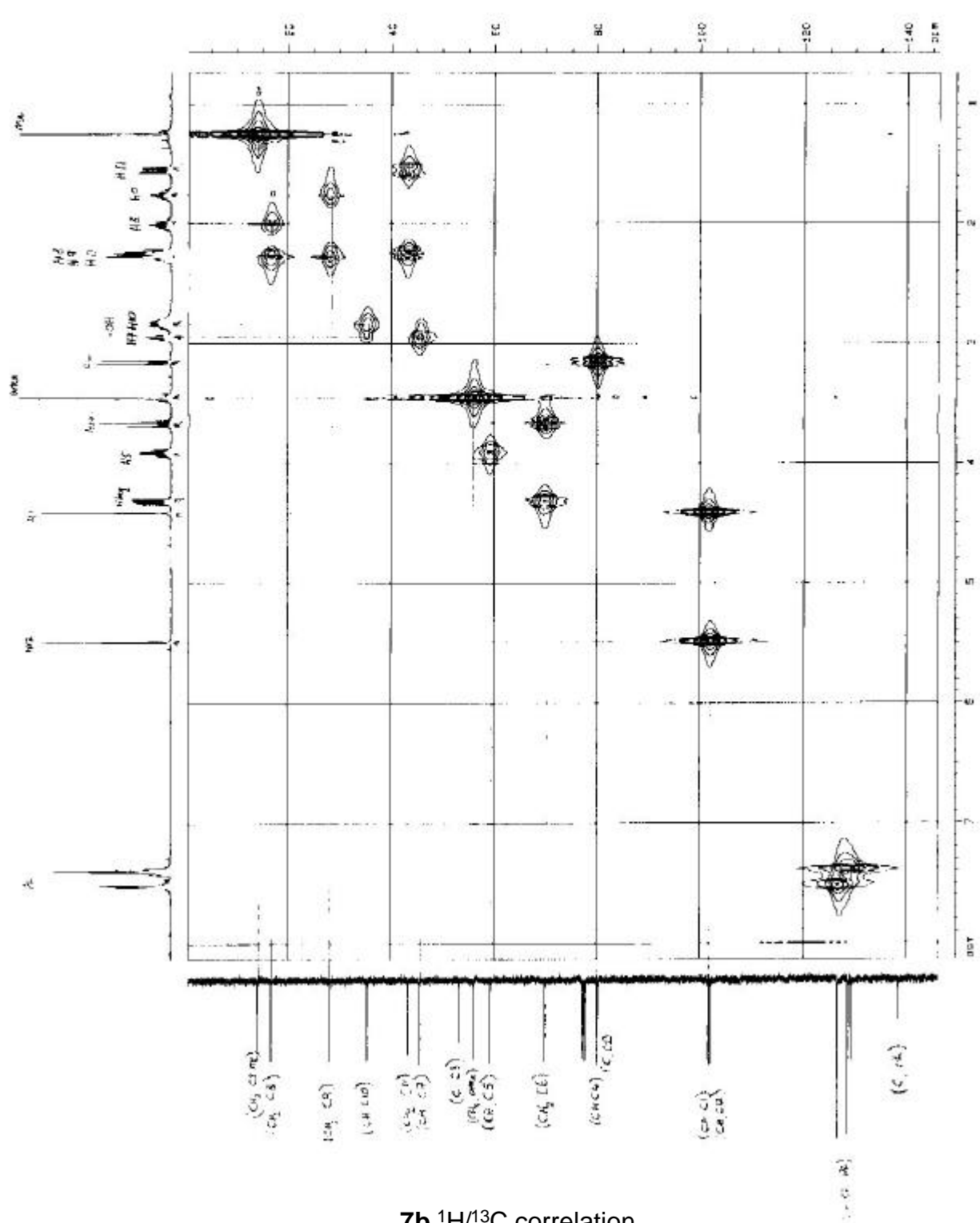
F2 - Acquisition Parameters
 Date: 8/22/99
 Time: 15:00
 PULPROG: zgpg30
 SOLVENT: CDCl3
 AQ: 3.1780553 sec
 FIDRES: 0.187537 Hz
 EQ: 90.000000
 RS: 258
 NUC1: 13C
 C1: 100.62032 sec
 SFO: 125.761 MHz
 JE: 100.000000
 SF2: 250.1304621 MHz
 EQ2: 90.000000
 F2: 515.454 Hz
 T1: 32.738 sec
 NS: 18
 DS: 4
 SC: 2

F2 - Processing parameters
 SI: 41584
 SF: 500.1304621 MHz
 GPC: 1328603 Hz
 K0: 0
 SSB: 0
 LB: 0.30 Hz
 GB: 0
 PC: 1.10

10 NMR data parameters
 CH: 30.30 sec
 CH2: 15.000 sec
 CH3: 2781.45 Hz
 CH4: 17.000 sec
 CH5: 250.13 Hz
 CH6: 0.000 sec
 CH7: 150.000 Hz
 CH8: 150.000 Hz



7a ¹³C/¹H correlation

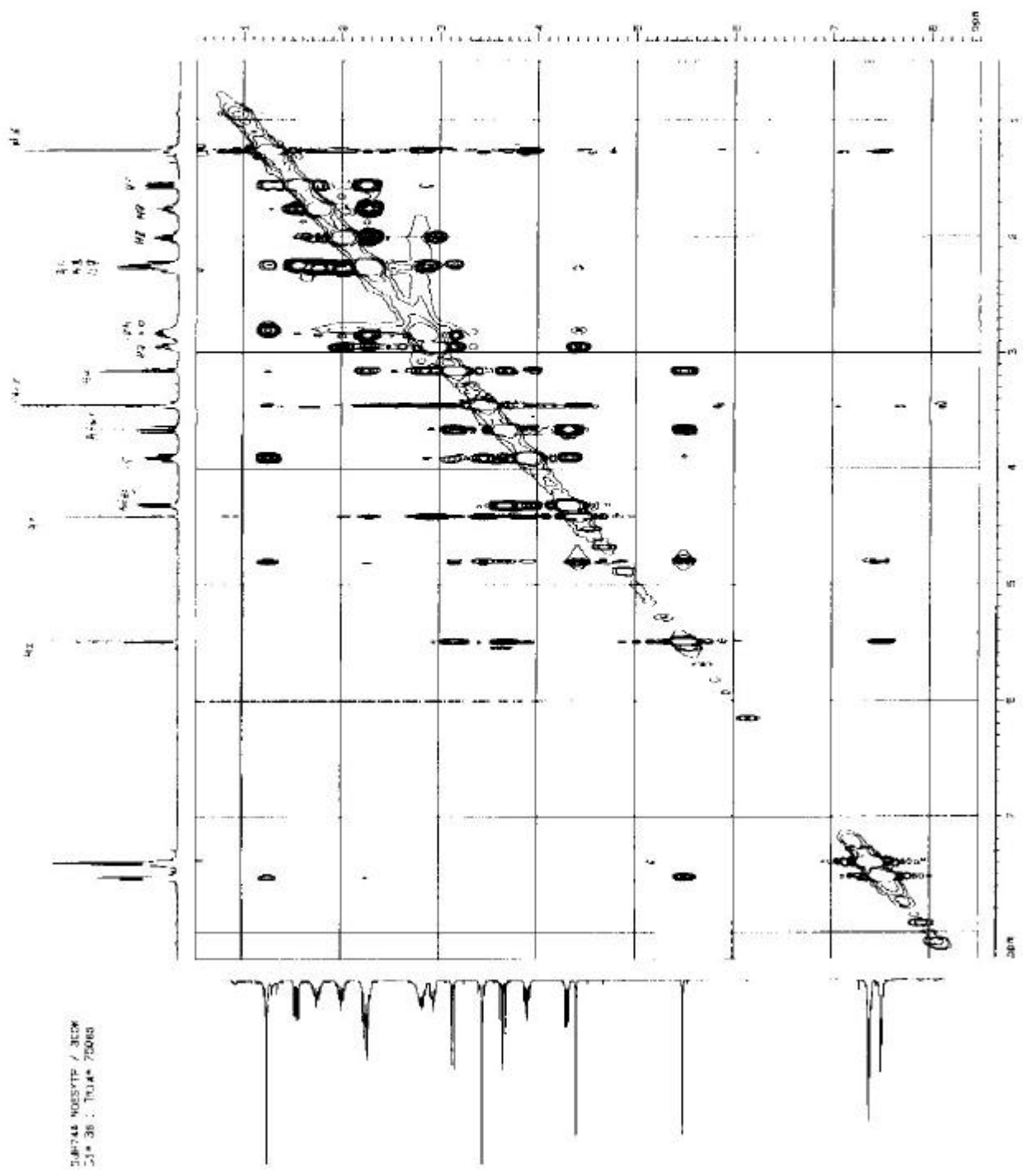


7b ¹H/¹³C correlation

Current Data Parameters

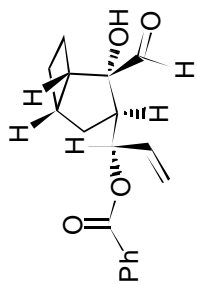
NAME: 7b
EXPNO: 1
PROCNO: 1
PROCPS: 1
SOLVENT: DMSO
PULPROG: zgpg30
TD: 65536
SFO: 400.146
AQ: 0.10000000
RG: 327.680
RT: 1.00000000
R2: 0.03000000
R3: 0.03000000
R4: 0.03000000
R5: 0.03000000
R6: 0.03000000
R7: 0.03000000
R8: 0.03000000
R9: 0.03000000
R10: 0.03000000
R11: 0.03000000
R12: 0.03000000
R13: 0.03000000
R14: 0.03000000
R15: 0.03000000
R16: 0.03000000
R17: 0.03000000
R18: 0.03000000
R19: 0.03000000
R20: 0.03000000
R21: 0.03000000
R22: 0.03000000
R23: 0.03000000
R24: 0.03000000
R25: 0.03000000
R26: 0.03000000
R27: 0.03000000
R28: 0.03000000
R29: 0.03000000
R30: 0.03000000
R31: 0.03000000
R32: 0.03000000
R33: 0.03000000
R34: 0.03000000
R35: 0.03000000
R36: 0.03000000
R37: 0.03000000
R38: 0.03000000
R39: 0.03000000
R40: 0.03000000
R41: 0.03000000
R42: 0.03000000
R43: 0.03000000
R44: 0.03000000
R45: 0.03000000
R46: 0.03000000
R47: 0.03000000
R48: 0.03000000
R49: 0.03000000
R50: 0.03000000
R51: 0.03000000
R52: 0.03000000
R53: 0.03000000
R54: 0.03000000
R55: 0.03000000
R56: 0.03000000
R57: 0.03000000
R58: 0.03000000
R59: 0.03000000
R60: 0.03000000
R61: 0.03000000
R62: 0.03000000
R63: 0.03000000
R64: 0.03000000
R65: 0.03000000
R66: 0.03000000
R67: 0.03000000
R68: 0.03000000
R69: 0.03000000
R70: 0.03000000
R71: 0.03000000
R72: 0.03000000
R73: 0.03000000
R74: 0.03000000
R75: 0.03000000
R76: 0.03000000
R77: 0.03000000
R78: 0.03000000
R79: 0.03000000
R80: 0.03000000
R81: 0.03000000
R82: 0.03000000
R83: 0.03000000
R84: 0.03000000
R85: 0.03000000
R86: 0.03000000
R87: 0.03000000
R88: 0.03000000
R89: 0.03000000
R90: 0.03000000
R91: 0.03000000
R92: 0.03000000
R93: 0.03000000
R94: 0.03000000
R95: 0.03000000
R96: 0.03000000
R97: 0.03000000
R98: 0.03000000
R99: 0.03000000
R100: 0.03000000

DATA44 NOESYTP / 3CDW
 21 - 36 : TRJA* 75000

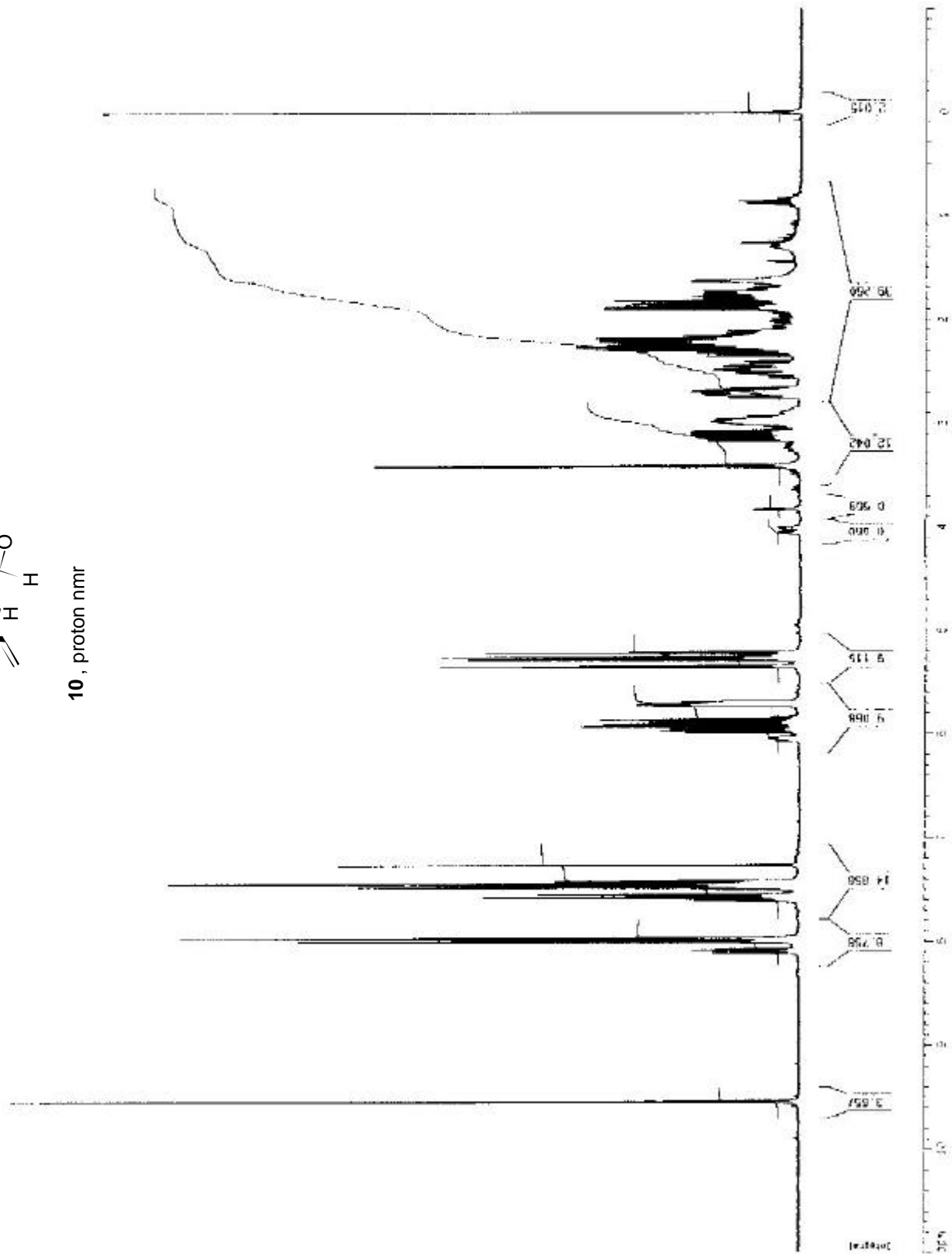


Current Data Parameters
 NAME : DATA44
 EXPNO : 1
 PROCNO : 1
 DATE_ : 200608
 TIME : 14.45
 INSTRUM : spect
 PULPROG : zgpg30
 F2 - Acquisition Parameters
 SFO1 : 400.133000 MHz
 SFO2 : 100.626150 MHz
 AQ : 5.731888 sec
 RG : 327.500 Hz
 DQ : 3.000000 sec
 F2 - Processing Parameters
 SI : 327.500
 SF : 400.133000 MHz
 RG : 327.500
 DQ : 3.000000 sec
 F1 - Acquisition Parameters
 SFO1 : 400.133000 MHz
 SFO2 : 100.626150 MHz
 AQ : 5.731888 sec
 RG : 327.500 Hz
 DQ : 3.000000 sec
 F1 - Processing Parameters
 SI : 327.500
 SF : 400.133000 MHz
 RG : 327.500
 DQ : 3.000000 sec
 F2 - Acquisition Parameters
 SFO1 : 400.133000 MHz
 SFO2 : 100.626150 MHz
 AQ : 5.731888 sec
 RG : 327.500 Hz
 DQ : 3.000000 sec
 F2 - Processing Parameters
 SI : 327.500
 SF : 400.133000 MHz
 RG : 327.500
 DQ : 3.000000 sec

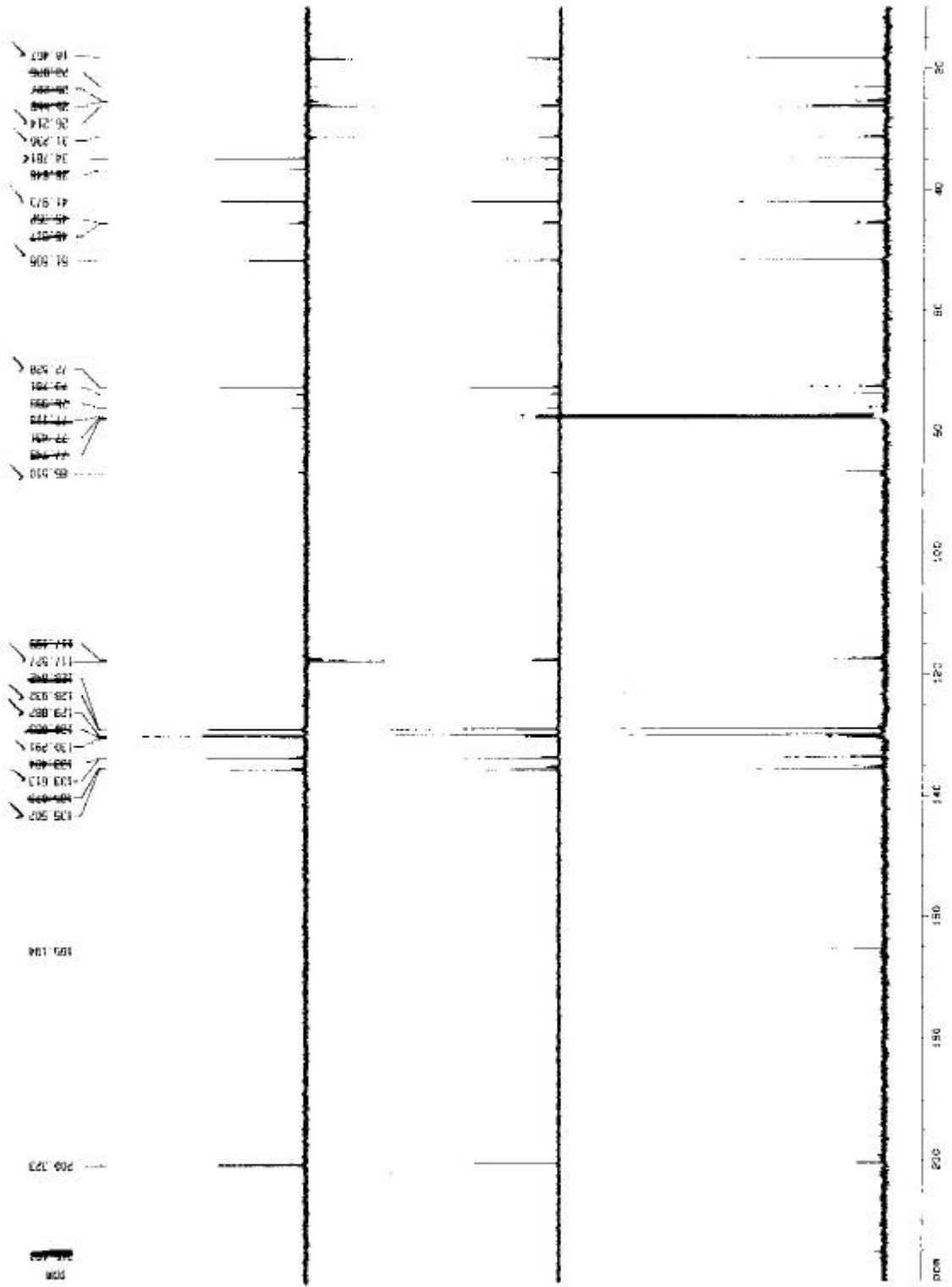
7b NOESY



10, proton nmr



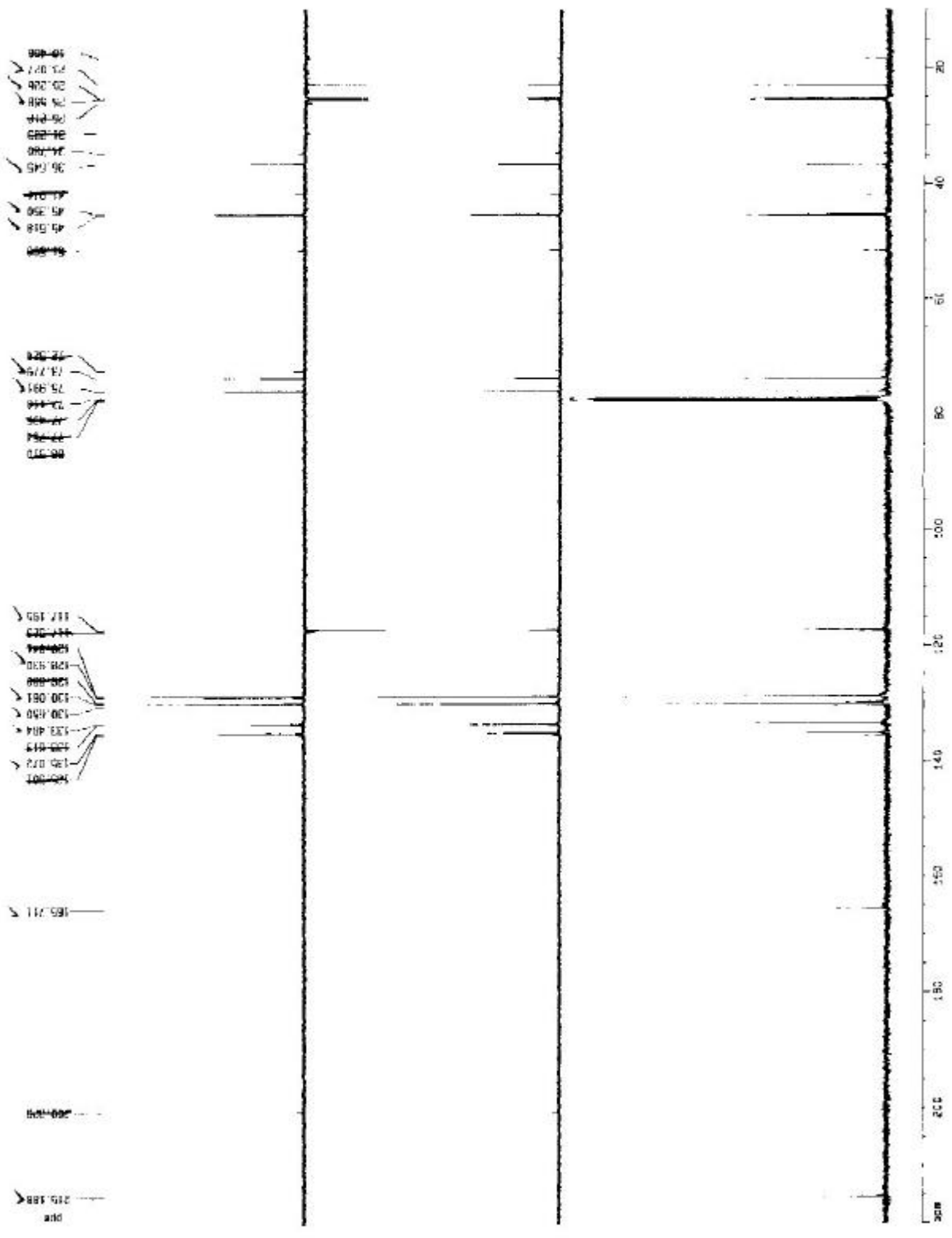
C:\MSDCHEM\10000001\10000001.D
 F2 - ACQUISITION PARAMETERS
 NAME 10000001
 DATE 01-12-01
 TIME 11:00:00
 INSTRUMENT spect
 PULPROG zgpg30
 TD 65536
 SFO 400.146
 AQ 0.327083
 RG 4096
 AC 16384
 DC 327.676
 DE 1.000000
 TE 300.2
 FIDRES 0.000001
 SCALES 16384
 SF 1000000.000
 AQ 0.327083
 SFO 400.146
 MDLFB 10000001.D
 F2 - PROCESSING PARAMETERS
 SI 32768
 SF 1000000.000
 AC 16384
 DC 327.676
 RG 4096
 EN 1
 ST 1
 FT 0.327083
 SC 1
 SB 1
 SC 1
 SD 1
 SE 1
 SF 1000000.000
 SFO 400.146
 MDLFB 10000001.D
 C:\MSDCHEM\10000001\10000001.D
 F2 - ACQUISITION PARAMETERS
 NAME 10000001
 DATE 01-12-01
 TIME 11:00:00
 INSTRUMENT spect
 PULPROG zgpg30
 TD 65536
 SFO 400.146
 AQ 0.327083
 RG 4096
 AC 16384
 DC 327.676
 DE 1.000000
 TE 300.2
 FIDRES 0.000001
 SCALES 16384
 SF 1000000.000
 AQ 0.327083
 SFO 400.146
 MDLFB 10000001.D
 F2 - PROCESSING PARAMETERS
 SI 32768
 SF 1000000.000
 AC 16384
 DC 327.676
 RG 4096
 EN 1
 ST 1
 FT 0.327083
 SC 1
 SB 1
 SC 1
 SD 1
 SE 1
 SF 1000000.000
 SFO 400.146
 MDLFB 10000001.D



Current Data Parameters

NAME	13CDEPT
EXPNO	1
F2 - Acquisition Parameters	
Date_	08/03/05
Time	10.34
INSTRUM	zgpg30
PROBHD	5 mm QNP 1H/13
PULPROG	zgpg30
DELTA	0
INVERSI	0
SI	2
RG	327
RG2	327
RG3	327
RG4	327
RG5	327
RG6	327
RG7	327
RG8	327
RG9	327
RG10	327
RG11	327
RG12	327
RG13	327
RG14	327
RG15	327
RG16	327
RG17	327
RG18	327
RG19	327
RG20	327
RG21	327
RG22	327
RG23	327
RG24	327
RG25	327
RG26	327
RG27	327
RG28	327
RG29	327
RG30	327
RG31	327
RG32	327
RG33	327
RG34	327
RG35	327
RG36	327
RG37	327
RG38	327
RG39	327
RG40	327
RG41	327
RG42	327
RG43	327
RG44	327
RG45	327
RG46	327
RG47	327
RG48	327
RG49	327
RG50	327
RG51	327
RG52	327
RG53	327
RG54	327
RG55	327
RG56	327
RG57	327
RG58	327
RG59	327
RG60	327
RG61	327
RG62	327
RG63	327
RG64	327
RG65	327
RG66	327
RG67	327
RG68	327
RG69	327
RG70	327
RG71	327
RG72	327
RG73	327
RG74	327
RG75	327
RG76	327
RG77	327
RG78	327
RG79	327
RG80	327
RG81	327
RG82	327
RG83	327
RG84	327
RG85	327
RG86	327
RG87	327
RG88	327
RG89	327
RG90	327
RG91	327
RG92	327
RG93	327
RG94	327
RG95	327
RG96	327
RG97	327
RG98	327
RG99	327
RG100	327
RG101	327
RG102	327
RG103	327
RG104	327
RG105	327
RG106	327
RG107	327
RG108	327
RG109	327
RG110	327
RG111	327
RG112	327
RG113	327
RG114	327
RG115	327
RG116	327
RG117	327
RG118	327
RG119	327
RG120	327
RG121	327
RG122	327
RG123	327
RG124	327
RG125	327
RG126	327
RG127	327
RG128	327
RG129	327
RG130	327
RG131	327
RG132	327
RG133	327
RG134	327
RG135	327
RG136	327
RG137	327
RG138	327
RG139	327
RG140	327
RG141	327
RG142	327
RG143	327
RG144	327
RG145	327
RG146	327
RG147	327
RG148	327
RG149	327
RG150	327
RG151	327
RG152	327
RG153	327
RG154	327
RG155	327
RG156	327
RG157	327
RG158	327
RG159	327
RG160	327
RG161	327
RG162	327
RG163	327
RG164	327
RG165	327
RG166	327
RG167	327
RG168	327
RG169	327
RG170	327
RG171	327
RG172	327
RG173	327
RG174	327
RG175	327
RG176	327
RG177	327
RG178	327
RG179	327
RG180	327
RG181	327
RG182	327
RG183	327
RG184	327
RG185	327
RG186	327
RG187	327
RG188	327
RG189	327
RG190	327
RG191	327
RG192	327
RG193	327
RG194	327
RG195	327
RG196	327
RG197	327
RG198	327
RG199	327
RG200	327
RG201	327
RG202	327
RG203	327
RG204	327
RG205	327
RG206	327
RG207	327
RG208	327
RG209	327
RG210	327
RG211	327
RG212	327
RG213	327
RG214	327
RG215	327
RG216	327
RG217	327
RG218	327
RG219	327
RG220	327
RG221	327
RG222	327
RG223	327
RG224	327
RG225	327
RG226	327
RG227	327
RG228	327
RG229	327
RG230	327
RG231	327
RG232	327
RG233	327
RG234	327
RG235	327
RG236	327
RG237	327
RG238	327
RG239	327
RG240	327
RG241	327
RG242	327
RG243	327
RG244	327
RG245	327
RG246	327
RG247	327
RG248	327
RG249	327
RG250	327
RG251	327
RG252	327
RG253	327
RG254	327
RG255	327
RG256	327
RG257	327
RG258	327
RG259	327
RG260	327
RG261	327
RG262	327
RG263	327
RG264	327
RG265	327
RG266	327
RG267	327
RG268	327
RG269	327
RG270	327
RG271	327
RG272	327
RG273	327
RG274	327
RG275	327
RG276	327
RG277	327
RG278	327
RG279	327
RG280	327
RG281	327
RG282	327
RG283	327
RG284	327
RG285	327
RG286	327
RG287	327
RG288	327
RG289	327
RG290	327
RG291	327
RG292	327
RG293	327
RG294	327
RG295	327
RG296	327
RG297	327
RG298	327
RG299	327
RG300	327
RG301	327
RG302	327
RG303	327
RG304	327
RG305	327
RG306	327
RG307	327
RG308	327
RG309	327
RG310	327
RG311	327
RG312	327
RG313	327
RG314	327
RG315	327
RG316	327
RG317	327
RG318	327
RG319	327
RG320	327
RG321	327
RG322	327
RG323	327
RG324	327
RG325	327
RG326	327
RG327	327
RG328	327
RG329	327
RG330	327
RG331	327
RG332	327
RG333	327
RG334	327
RG335	327
RG336	327
RG337	327
RG338	327
RG339	327
RG340	327
RG341	327
RG342	327
RG343	327
RG344	327
RG345	327
RG346	327
RG347	327
RG348	327
RG349	327
RG350	327
RG351	327
RG352	327
RG353	327
RG354	327
RG355	327
RG356	327
RG357	327
RG358	327
RG359	327
RG360	327
RG361	327
RG362	327
RG363	327
RG364	327
RG365	327
RG366	327
RG367	327
RG368	327
RG369	327
RG370	327
RG371	327
RG372	327
RG373	327
RG374	327
RG375	327
RG376	327
RG377	327
RG378	327
RG379	327
RG380	327
RG381	327
RG382	327
RG383	327
RG384	327
RG385	327
RG386	327
RG387	327
RG388	327
RG389	327
RG390	327
RG391	327
RG392	327
RG393	327
RG394	327
RG395	327
RG396	327
RG397	327
RG398	327
RG399	327
RG400	327
RG401	327
RG402	327
RG403	327
RG404	327
RG405	327
RG406	327
RG407	327
RG408	327
RG409	327
RG410	327
RG411	327
RG412	327
RG413	327
RG414	327
RG415	327
RG416	327
RG417	327
RG418	327
RG419	327
RG420	327
RG421	327
RG422	327
RG423	327
RG424	327
RG425	327
RG426	327
RG427	327
RG428	327
RG429	327
RG430	327
RG431	327
RG432	327
RG433	327
RG434	327
RG435	327
RG436	327
RG437	327
RG438	327
RG439	327
RG440	327
RG441	327
RG442	327
RG443	327
RG444	327
RG445	327
RG446	327
RG447	327
RG448	327
RG449	327
RG450	327
RG451	327
RG452	327
RG453	327
RG454	327
RG455	327
RG456	327
RG457	327
RG458	327
RG459	327
RG460	327
RG461	327
RG462	327
RG463	327
RG464	327
RG465	327
RG466	327
RG467	327
RG468	327
RG469	327
RG470	327
RG471	327
RG472	327
RG473	327
RG474	327
RG475	327
RG476	327
RG477	327
RG478	327
RG479	327
RG480	327
RG481	327
RG482	327
RG483	327
RG484	327
RG485	327
RG486	327
RG487	327
RG488	327
RG489	327
RG490	327
RG491	327
RG492	327
RG493	327
RG494	327
RG495	327
RG496	327
RG497	327
RG498	327
RG499	327
RG500	327
RG501	327
RG502	327
RG503	327
RG504	327
RG505	327
RG506	327
RG507	327
RG508	327
RG509	327
RG510	327
RG511	327
RG512	327
RG513	327
RG514	327
RG515	327
RG516	327
RG517	327
RG518	327
RG519	327
RG520	327
RG521	327
RG522	3

CJ-98C 13C (1H) + DEPT 135 / 300K



Current Data Parameters
 NAME CJ-98C
 EXPGM 4.1.362
 PROCNO 1

29 - Acquisition Parameters
 Date_ 06/01/03
 Time 11:35
 INSTRUM spect
 PULPROG zgpg30
 ALPHAC 0.00000000
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 20246.548 Hz
 FIDRES 0.862078 Hz
 AQ 0.3801436 sec
 RG 2048
 DM 17.701 MHz
 SFO 500.136261 MHz
 FE 300.136

31 - Processing parameters
 SI 32768
 SF 500.136261 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.03 Hz
 SC 3
 RC 1.40

32 - NMR Data Parameters
 CH 21.03 CH
 CH2 22.03 CH2
 CH3 23.03 CH3
 CD 15.00 CD
 CD2 16.00 CD2
 CD3 17.00 CD3
 CD4 18.00 CD4
 CD5 19.00 CD5
 CD6 20.00 CD6
 CD7 21.00 CD7
 CD8 22.00 CD8
 CD9 23.00 CD9
 CD10 24.00 CD10
 CD11 25.00 CD11
 CD12 26.00 CD12
 CD13 27.00 CD13
 CD14 28.00 CD14
 CD15 29.00 CD15
 CD16 30.00 CD16
 CD17 31.00 CD17
 CD18 32.00 CD18
 CD19 33.00 CD19
 CD20 34.00 CD20
 CD21 35.00 CD21
 CD22 36.00 CD22
 CD23 37.00 CD23
 CD24 38.00 CD24
 CD25 39.00 CD25
 CD26 40.00 CD26
 CD27 41.00 CD27
 CD28 42.00 CD28
 CD29 43.00 CD29
 CD30 44.00 CD30
 CD31 45.00 CD31
 CD32 46.00 CD32
 CD33 47.00 CD33
 CD34 48.00 CD34
 CD35 49.00 CD35
 CD36 50.00 CD36
 CD37 51.00 CD37
 CD38 52.00 CD38
 CD39 53.00 CD39
 CD40 54.00 CD40
 CD41 55.00 CD41
 CD42 56.00 CD42
 CD43 57.00 CD43
 CD44 58.00 CD44
 CD45 59.00 CD45
 CD46 60.00 CD46
 CD47 61.00 CD47
 CD48 62.00 CD48
 CD49 63.00 CD49
 CD50 64.00 CD50
 CD51 65.00 CD51
 CD52 66.00 CD52
 CD53 67.00 CD53
 CD54 68.00 CD54
 CD55 69.00 CD55
 CD56 70.00 CD56
 CD57 71.00 CD57
 CD58 72.00 CD58
 CD59 73.00 CD59
 CD60 74.00 CD60
 CD61 75.00 CD61
 CD62 76.00 CD62
 CD63 77.00 CD63
 CD64 78.00 CD64
 CD65 79.00 CD65
 CD66 80.00 CD66
 CD67 81.00 CD67
 CD68 82.00 CD68
 CD69 83.00 CD69
 CD70 84.00 CD70
 CD71 85.00 CD71
 CD72 86.00 CD72
 CD73 87.00 CD73
 CD74 88.00 CD74
 CD75 89.00 CD75
 CD76 90.00 CD76
 CD77 91.00 CD77
 CD78 92.00 CD78
 CD79 93.00 CD79
 CD80 94.00 CD80
 CD81 95.00 CD81
 CD82 96.00 CD82
 CD83 97.00 CD83
 CD84 98.00 CD84
 CD85 99.00 CD85
 CD86 100.00 CD86
 CD87 101.00 CD87
 CD88 102.00 CD88
 CD89 103.00 CD89
 CD90 104.00 CD90
 CD91 105.00 CD91
 CD92 106.00 CD92
 CD93 107.00 CD93
 CD94 108.00 CD94
 CD95 109.00 CD95
 CD96 110.00 CD96
 CD97 111.00 CD97
 CD98 112.00 CD98
 CD99 113.00 CD99
 CD100 114.00 CD100
 CD101 115.00 CD101
 CD102 116.00 CD102
 CD103 117.00 CD103
 CD104 118.00 CD104
 CD105 119.00 CD105
 CD106 120.00 CD106
 CD107 121.00 CD107
 CD108 122.00 CD108
 CD109 123.00 CD109
 CD110 124.00 CD110
 CD111 125.00 CD111
 CD112 126.00 CD112
 CD113 127.00 CD113
 CD114 128.00 CD114
 CD115 129.00 CD115
 CD116 130.00 CD116
 CD117 131.00 CD117
 CD118 132.00 CD118
 CD119 133.00 CD119
 CD120 134.00 CD120
 CD121 135.00 CD121
 CD122 136.00 CD122
 CD123 137.00 CD123
 CD124 138.00 CD124
 CD125 139.00 CD125
 CD126 140.00 CD126
 CD127 141.00 CD127
 CD128 142.00 CD128
 CD129 143.00 CD129
 CD130 144.00 CD130
 CD131 145.00 CD131
 CD132 146.00 CD132
 CD133 147.00 CD133
 CD134 148.00 CD134
 CD135 149.00 CD135
 CD136 150.00 CD136
 CD137 151.00 CD137
 CD138 152.00 CD138
 CD139 153.00 CD139
 CD140 154.00 CD140
 CD141 155.00 CD141
 CD142 156.00 CD142
 CD143 157.00 CD143
 CD144 158.00 CD144
 CD145 159.00 CD145
 CD146 160.00 CD146
 CD147 161.00 CD147
 CD148 162.00 CD148
 CD149 163.00 CD149
 CD150 164.00 CD150
 CD151 165.00 CD151
 CD152 166.00 CD152
 CD153 167.00 CD153
 CD154 168.00 CD154
 CD155 169.00 CD155
 CD156 170.00 CD156
 CD157 171.00 CD157
 CD158 172.00 CD158
 CD159 173.00 CD159
 CD160 174.00 CD160
 CD161 175.00 CD161
 CD162 176.00 CD162
 CD163 177.00 CD163
 CD164 178.00 CD164
 CD165 179.00 CD165
 CD166 180.00 CD166
 CD167 181.00 CD167
 CD168 182.00 CD168
 CD169 183.00 CD169
 CD170 184.00 CD170
 CD171 185.00 CD171
 CD172 186.00 CD172
 CD173 187.00 CD173
 CD174 188.00 CD174
 CD175 189.00 CD175
 CD176 190.00 CD176
 CD177 191.00 CD177
 CD178 192.00 CD178
 CD179 193.00 CD179
 CD180 194.00 CD180
 CD181 195.00 CD181
 CD182 196.00 CD182
 CD183 197.00 CD183
 CD184 198.00 CD184
 CD185 199.00 CD185
 CD186 200.00 CD186

12, ¹³C and DEPT

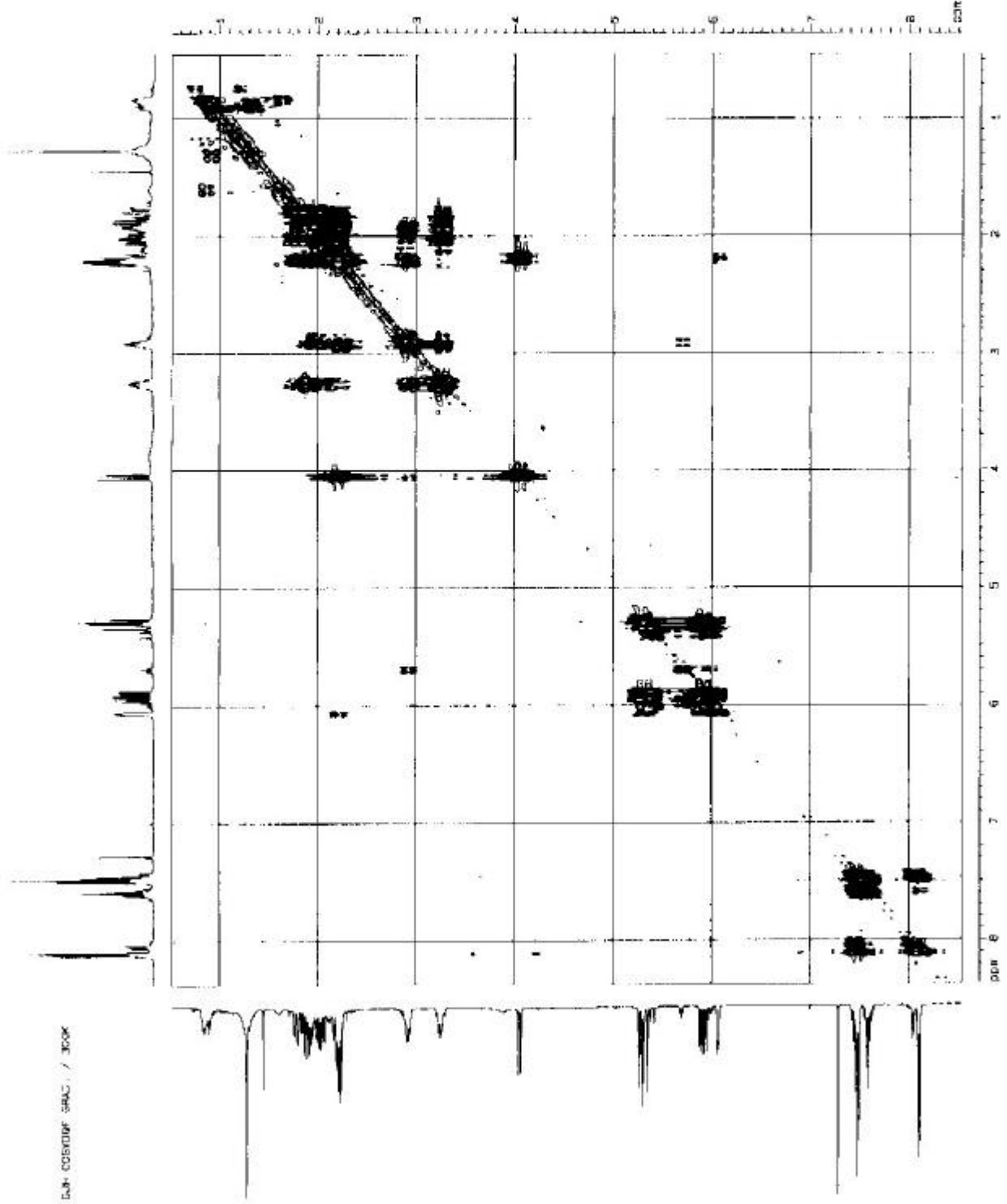
Current Data Parameters
 01/17/82
 1

14 - ACQUISITION PARAMETERS

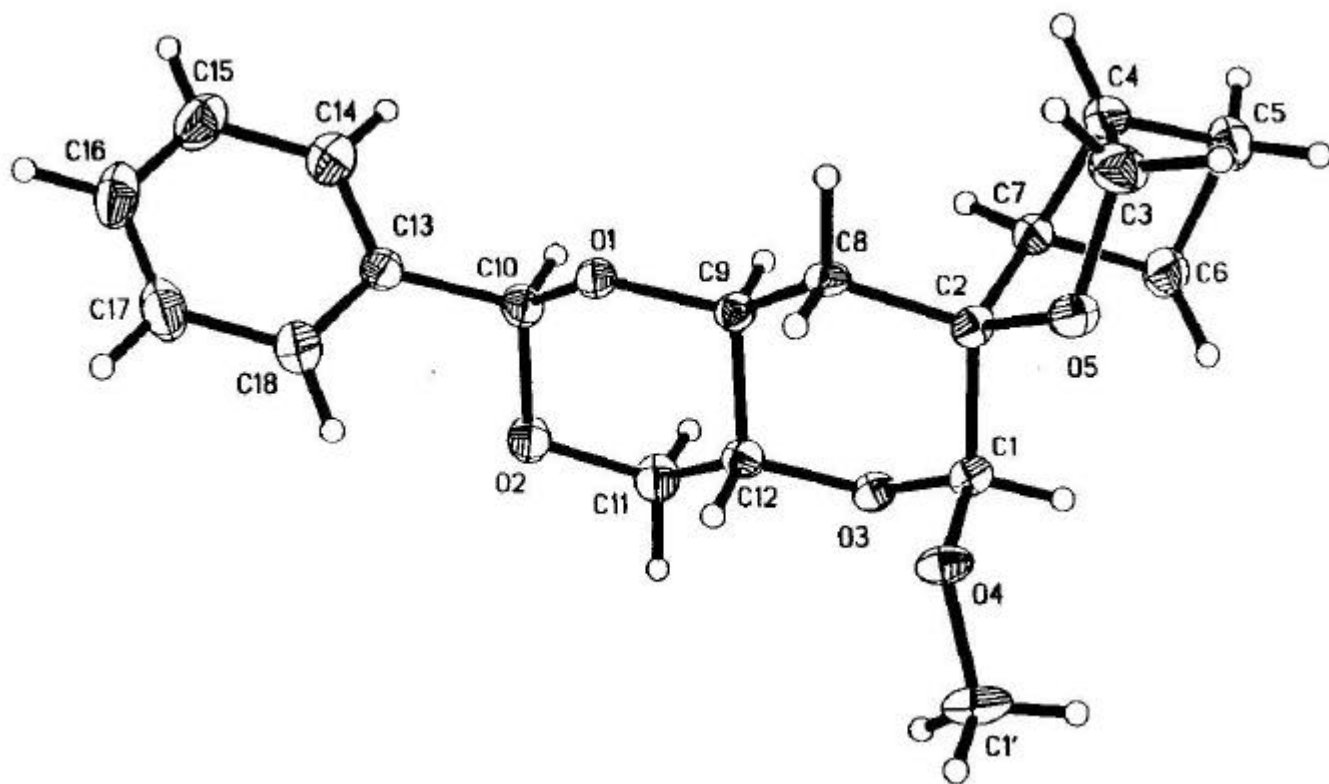
Date: 01/17/82
 Time: 13:14
 INSTRUM: CPD
 CHANNEL: 1
 PULPROG: zgpg30
 TO SOLVENT: CDCl3
 NS: 4
 DS: 16
 SWH: 4134.881 Hz
 F1 F2: 2 CHANNELS
 AQ: 0.00000000 sec
 SFO: 125.760 MHz
 DE: 11.37000000 sec
 TE: 4.20000000 sec
 TD: 300.00000000
 GB: 0.00000000 sec
 PC: 0.00000000 sec
 CB: 0.00000000 sec
 DB: 0.00000000 sec
 EB: 0.00000000 sec
 HB: 0.00000000 sec
 IC: 0.00000000 sec
 EC: 0.00000000 sec
 FC: 0.00000000 sec
 GC: 0.00000000 sec
 HC: 0.00000000 sec
 IC: 0.00000000 sec
 JC: 0.00000000 sec
 KC: 0.00000000 sec
 LC: 0.00000000 sec
 MC: 0.00000000 sec
 NC: 0.00000000 sec
 OC: 0.00000000 sec
 PC: 0.00000000 sec
 QC: 0.00000000 sec
 RC: 0.00000000 sec
 SC: 0.00000000 sec
 TC: 0.00000000 sec
 UC: 0.00000000 sec
 VC: 0.00000000 sec
 WC: 0.00000000 sec
 XC: 0.00000000 sec
 YC: 0.00000000 sec
 ZC: 0.00000000 sec

15 - PROCESSING PARAMETERS

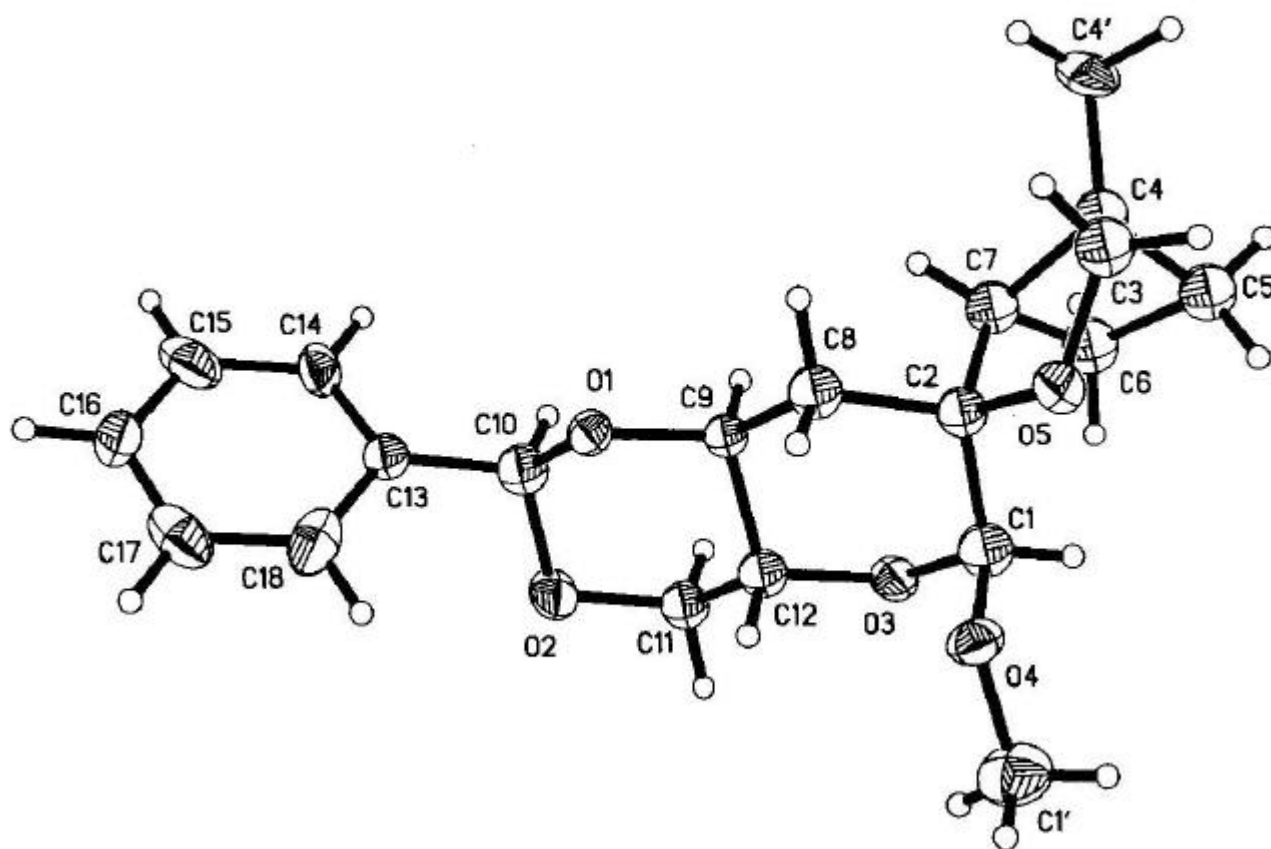
SI: 16384
 SF: 125.760000 MHz
 SP: 3.00 Hz
 AS: 32768
 EQ: 0.5 Hz
 GE: 0.5 Hz
 GR: 0.5 Hz
 GC: 0.00 Hz
 GD: 0.00 Hz
 GE: 0.00 Hz
 GF: 0.00 Hz
 GG: 0.00 Hz
 GH: 0.00 Hz
 GI: 0.00 Hz
 GJ: 0.00 Hz
 GK: 0.00 Hz
 GL: 0.00 Hz
 GM: 0.00 Hz
 GN: 0.00 Hz
 GO: 0.00 Hz
 GP: 0.00 Hz
 GQ: 0.00 Hz
 GR: 0.00 Hz
 GS: 0.00 Hz
 GT: 0.00 Hz
 GU: 0.00 Hz
 GV: 0.00 Hz
 GW: 0.00 Hz
 GX: 0.00 Hz
 GY: 0.00 Hz
 GZ: 0.00 Hz
 HA: 0.00 Hz
 HB: 0.00 Hz
 HC: 0.00 Hz
 HD: 0.00 Hz
 HE: 0.00 Hz
 HF: 0.00 Hz
 HG: 0.00 Hz
 HH: 0.00 Hz
 HI: 0.00 Hz
 HJ: 0.00 Hz
 HK: 0.00 Hz
 HL: 0.00 Hz
 HM: 0.00 Hz
 HN: 0.00 Hz
 HO: 0.00 Hz
 HP: 0.00 Hz
 HQ: 0.00 Hz
 HR: 0.00 Hz
 HS: 0.00 Hz
 HT: 0.00 Hz
 HU: 0.00 Hz
 HV: 0.00 Hz
 HW: 0.00 Hz
 HX: 0.00 Hz
 HY: 0.00 Hz
 HZ: 0.00 Hz
 IA: 0.00 Hz
 IB: 0.00 Hz
 IC: 0.00 Hz
 ID: 0.00 Hz
 IE: 0.00 Hz
 IF: 0.00 Hz
 IG: 0.00 Hz
 IH: 0.00 Hz
 II: 0.00 Hz
 IJ: 0.00 Hz
 IK: 0.00 Hz
 IL: 0.00 Hz
 IM: 0.00 Hz
 IN: 0.00 Hz
 IO: 0.00 Hz
 IP: 0.00 Hz
 IQ: 0.00 Hz
 IR: 0.00 Hz
 IS: 0.00 Hz
 IT: 0.00 Hz
 IU: 0.00 Hz
 IV: 0.00 Hz
 IW: 0.00 Hz
 IX: 0.00 Hz
 IY: 0.00 Hz
 IZ: 0.00 Hz
 JA: 0.00 Hz
 JB: 0.00 Hz
 JC: 0.00 Hz
 JD: 0.00 Hz
 JE: 0.00 Hz
 JF: 0.00 Hz
 JG: 0.00 Hz
 JH: 0.00 Hz
 JI: 0.00 Hz
 JJ: 0.00 Hz
 JK: 0.00 Hz
 JL: 0.00 Hz
 JM: 0.00 Hz
 JN: 0.00 Hz
 JO: 0.00 Hz
 JP: 0.00 Hz
 JQ: 0.00 Hz
 JR: 0.00 Hz
 JS: 0.00 Hz
 JT: 0.00 Hz
 JU: 0.00 Hz
 JV: 0.00 Hz
 JW: 0.00 Hz
 JX: 0.00 Hz
 JY: 0.00 Hz
 JZ: 0.00 Hz
 KA: 0.00 Hz
 KB: 0.00 Hz
 KC: 0.00 Hz
 KD: 0.00 Hz
 KE: 0.00 Hz
 KF: 0.00 Hz
 KG: 0.00 Hz
 KH: 0.00 Hz
 KI: 0.00 Hz
 KJ: 0.00 Hz
 KK: 0.00 Hz
 KL: 0.00 Hz
 KM: 0.00 Hz
 KN: 0.00 Hz
 KO: 0.00 Hz
 KP: 0.00 Hz
 KQ: 0.00 Hz
 KR: 0.00 Hz
 KS: 0.00 Hz
 KT: 0.00 Hz
 KU: 0.00 Hz
 KV: 0.00 Hz
 KW: 0.00 Hz
 KX: 0.00 Hz
 KY: 0.00 Hz
 KZ: 0.00 Hz
 LA: 0.00 Hz
 LB: 0.00 Hz
 LC: 0.00 Hz
 LD: 0.00 Hz
 LE: 0.00 Hz
 LF: 0.00 Hz
 LG: 0.00 Hz
 LH: 0.00 Hz
 LI: 0.00 Hz
 LJ: 0.00 Hz
 LK: 0.00 Hz
 LL: 0.00 Hz
 LM: 0.00 Hz
 LN: 0.00 Hz
 LO: 0.00 Hz
 LP: 0.00 Hz
 LQ: 0.00 Hz
 LR: 0.00 Hz
 LS: 0.00 Hz
 LT: 0.00 Hz
 LU: 0.00 Hz
 LV: 0.00 Hz
 LW: 0.00 Hz
 LX: 0.00 Hz
 LY: 0.00 Hz
 LZ: 0.00 Hz
 MA: 0.00 Hz
 MB: 0.00 Hz
 MC: 0.00 Hz
 MD: 0.00 Hz
 ME: 0.00 Hz
 MF: 0.00 Hz
 MG: 0.00 Hz
 MH: 0.00 Hz
 MI: 0.00 Hz
 MJ: 0.00 Hz
 MK: 0.00 Hz
 ML: 0.00 Hz
 MM: 0.00 Hz
 MN: 0.00 Hz
 MO: 0.00 Hz
 MP: 0.00 Hz
 MQ: 0.00 Hz
 MR: 0.00 Hz
 MS: 0.00 Hz
 MT: 0.00 Hz
 MU: 0.00 Hz
 MV: 0.00 Hz
 MW: 0.00 Hz
 MX: 0.00 Hz
 MY: 0.00 Hz
 MZ: 0.00 Hz
 NA: 0.00 Hz
 NB: 0.00 Hz
 NC: 0.00 Hz
 ND: 0.00 Hz
 NE: 0.00 Hz
 NF: 0.00 Hz
 NG: 0.00 Hz
 NH: 0.00 Hz
 NI: 0.00 Hz
 NJ: 0.00 Hz
 NK: 0.00 Hz
 NL: 0.00 Hz
 NM: 0.00 Hz
 NN: 0.00 Hz
 NO: 0.00 Hz
 NP: 0.00 Hz
 NQ: 0.00 Hz
 NR: 0.00 Hz
 NS: 0.00 Hz
 NT: 0.00 Hz
 NU: 0.00 Hz
 NV: 0.00 Hz
 NW: 0.00 Hz
 NX: 0.00 Hz
 NY: 0.00 Hz
 NZ: 0.00 Hz
 OA: 0.00 Hz
 OB: 0.00 Hz
 OC: 0.00 Hz
 OD: 0.00 Hz
 OE: 0.00 Hz
 OF: 0.00 Hz
 OG: 0.00 Hz
 OH: 0.00 Hz
 OI: 0.00 Hz
 OJ: 0.00 Hz
 OK: 0.00 Hz
 OL: 0.00 Hz
 OM: 0.00 Hz
 ON: 0.00 Hz
 OO: 0.00 Hz
 OP: 0.00 Hz
 OQ: 0.00 Hz
 OR: 0.00 Hz
 OS: 0.00 Hz
 OT: 0.00 Hz
 OU: 0.00 Hz
 OV: 0.00 Hz
 OW: 0.00 Hz
 OX: 0.00 Hz
 OY: 0.00 Hz
 OZ: 0.00 Hz
 PA: 0.00 Hz
 PB: 0.00 Hz
 PC: 0.00 Hz
 PD: 0.00 Hz
 PE: 0.00 Hz
 PF: 0.00 Hz
 PG: 0.00 Hz
 PH: 0.00 Hz
 PI: 0.00 Hz
 PJ: 0.00 Hz
 PK: 0.00 Hz
 PL: 0.00 Hz
 PM: 0.00 Hz
 PN: 0.00 Hz
 PO: 0.00 Hz
 PP: 0.00 Hz
 PQ: 0.00 Hz
 PR: 0.00 Hz
 PS: 0.00 Hz
 PT: 0.00 Hz
 PU: 0.00 Hz
 PV: 0.00 Hz
 PW: 0.00 Hz
 PX: 0.00 Hz
 PY: 0.00 Hz
 PZ: 0.00 Hz
 QA: 0.00 Hz
 QB: 0.00 Hz
 QC: 0.00 Hz
 QD: 0.00 Hz
 QE: 0.00 Hz
 QF: 0.00 Hz
 QG: 0.00 Hz
 QH: 0.00 Hz
 QI: 0.00 Hz
 QJ: 0.00 Hz
 QK: 0.00 Hz
 QL: 0.00 Hz
 QM: 0.00 Hz
 QN: 0.00 Hz
 QO: 0.00 Hz
 QP: 0.00 Hz
 QQ: 0.00 Hz
 QR: 0.00 Hz
 QS: 0.00 Hz
 QT: 0.00 Hz
 QU: 0.00 Hz
 QV: 0.00 Hz
 QW: 0.00 Hz
 QX: 0.00 Hz
 QY: 0.00 Hz
 QZ: 0.00 Hz
 RA: 0.00 Hz
 RB: 0.00 Hz
 RC: 0.00 Hz
 RD: 0.00 Hz
 RE: 0.00 Hz
 RF: 0.00 Hz
 RG: 0.00 Hz
 RH: 0.00 Hz
 RI: 0.00 Hz
 RJ: 0.00 Hz
 RK: 0.00 Hz
 RL: 0.00 Hz
 RM: 0.00 Hz
 RN: 0.00 Hz
 RO: 0.00 Hz
 RP: 0.00 Hz
 RQ: 0.00 Hz
 RR: 0.00 Hz
 RS: 0.00 Hz
 RT: 0.00 Hz
 RU: 0.00 Hz
 RV: 0.00 Hz
 RW: 0.00 Hz
 RX: 0.00 Hz
 RY: 0.00 Hz
 RZ: 0.00 Hz
 SA: 0.00 Hz
 SB: 0.00 Hz
 SC: 0.00 Hz
 SD: 0.00 Hz
 SE: 0.00 Hz
 SF: 0.00 Hz
 SG: 0.00 Hz
 SH: 0.00 Hz
 SI: 0.00 Hz
 SJ: 0.00 Hz
 SK: 0.00 Hz
 SL: 0.00 Hz
 SM: 0.00 Hz
 SN: 0.00 Hz
 SO: 0.00 Hz
 SP: 0.00 Hz
 SQ: 0.00 Hz
 SR: 0.00 Hz
 SS: 0.00 Hz
 ST: 0.00 Hz
 SU: 0.00 Hz
 SV: 0.00 Hz
 SW: 0.00 Hz
 SX: 0.00 Hz
 SY: 0.00 Hz
 SZ: 0.00 Hz
 TA: 0.00 Hz
 TB: 0.00 Hz
 TC: 0.00 Hz
 TD: 0.00 Hz
 TE: 0.00 Hz
 TF: 0.00 Hz
 TG: 0.00 Hz
 TH: 0.00 Hz
 TI: 0.00 Hz
 TJ: 0.00 Hz
 TK: 0.00 Hz
 TL: 0.00 Hz
 TM: 0.00 Hz
 TN: 0.00 Hz
 TO: 0.00 Hz
 TP: 0.00 Hz
 TQ: 0.00 Hz
 TR: 0.00 Hz
 TS: 0.00 Hz
 TT: 0.00 Hz
 TU: 0.00 Hz
 TV: 0.00 Hz
 TW: 0.00 Hz
 TX: 0.00 Hz
 TY: 0.00 Hz
 TZ: 0.00 Hz
 UA: 0.00 Hz
 UB: 0.00 Hz
 UC: 0.00 Hz
 UD: 0.00 Hz
 UE: 0.00 Hz
 UF: 0.00 Hz
 UG: 0.00 Hz
 UH: 0.00 Hz
 UI: 0.00 Hz
 UJ: 0.00 Hz
 UK: 0.00 Hz
 UL: 0.00 Hz
 UM: 0.00 Hz
 UN: 0.00 Hz
 UO: 0.00 Hz
 UP: 0.00 Hz
 UQ: 0.00 Hz
 UR: 0.00 Hz
 US: 0.00 Hz
 UT: 0.00 Hz
 UU: 0.00 Hz
 UV: 0.00 Hz
 UW: 0.00 Hz
 UX: 0.00 Hz
 UY: 0.00 Hz
 UZ: 0.00 Hz
 VA: 0.00 Hz
 VB: 0.00 Hz
 VC: 0.00 Hz
 VD: 0.00 Hz
 VE: 0.00 Hz
 VF: 0.00 Hz
 VG: 0.00 Hz
 VH: 0.00 Hz
 VI: 0.00 Hz
 VJ: 0.00 Hz
 VK: 0.00 Hz
 VL: 0.00 Hz
 VM: 0.00 Hz
 VN: 0.00 Hz
 VO: 0.00 Hz
 VP: 0.00 Hz
 VQ: 0.00 Hz
 VR: 0.00 Hz
 VS: 0.00 Hz
 VT: 0.00 Hz
 VU: 0.00 Hz
 VV: 0.00 Hz
 VW: 0.00 Hz
 VX: 0.00 Hz
 VY: 0.00 Hz
 VZ: 0.00 Hz
 WA: 0.00 Hz
 WB: 0.00 Hz
 WC: 0.00 Hz
 WD: 0.00 Hz
 WE: 0.00 Hz
 WF: 0.00 Hz
 WG: 0.00 Hz
 WH: 0.00 Hz
 WI: 0.00 Hz
 WJ: 0.00 Hz
 WK: 0.00 Hz
 WL: 0.00 Hz
 WM: 0.00 Hz
 WN: 0.00 Hz
 WO: 0.00 Hz
 WP: 0.00 Hz
 WQ: 0.00 Hz
 WR: 0.00 Hz
 WS: 0.00 Hz
 WT: 0.00 Hz
 WU: 0.00 Hz
 WV: 0.00 Hz
 WW: 0.00 Hz
 WX: 0.00 Hz
 WY: 0.00 Hz
 WZ: 0.00 Hz
 XA: 0.00 Hz
 XB: 0.00 Hz
 XC: 0.00 Hz
 XD: 0.00 Hz
 XE: 0.00 Hz
 XF: 0.00 Hz
 XG: 0.00 Hz
 XH: 0.00 Hz
 XI: 0.00 Hz
 XJ: 0.00 Hz
 XK: 0.00 Hz
 XL: 0.00 Hz
 XM: 0.00 Hz
 XN: 0.00 Hz
 XO: 0.00 Hz
 XP: 0.00 Hz
 XQ: 0.00 Hz
 XR: 0.00 Hz
 XS: 0.00 Hz
 XT: 0.00 Hz
 XU: 0.00 Hz
 XV: 0.00 Hz
 XW: 0.00 Hz
 XX: 0.00 Hz
 XY: 0.00 Hz
 XZ: 0.00 Hz
 YA: 0.00 Hz
 YB: 0.00 Hz
 YC: 0.00 Hz
 YD: 0.00 Hz
 YE: 0.00 Hz
 YF: 0.00 Hz
 YG: 0.00 Hz
 YH: 0.00 Hz
 YI: 0.00 Hz
 YJ: 0.00 Hz
 YK: 0.00 Hz
 YL: 0.00 Hz
 YM: 0.00 Hz
 YN: 0.00 Hz
 YO: 0.00 Hz
 YP: 0.00 Hz
 YQ: 0.00 Hz
 YR: 0.00 Hz
 YS: 0.00 Hz
 YT: 0.00 Hz
 YU: 0.00 Hz
 YV: 0.00 Hz
 YW: 0.00 Hz
 YX: 0.00 Hz
 YY: 0.00 Hz
 YZ: 0.00 Hz
 ZA: 0.00 Hz
 ZB: 0.00 Hz
 ZC: 0.00 Hz
 ZD: 0.00 Hz
 ZE: 0.00 Hz
 ZF: 0.00 Hz
 ZG: 0.00 Hz
 ZH: 0.00 Hz
 ZI: 0.00 Hz
 ZJ: 0.00 Hz
 ZK: 0.00 Hz
 ZL: 0.00 Hz
 ZM: 0.00 Hz
 ZN: 0.00 Hz
 ZO: 0.00 Hz
 ZP: 0.00 Hz
 ZQ: 0.00 Hz
 ZR: 0.00 Hz
 ZS: 0.00 Hz
 ZT: 0.00 Hz
 ZU: 0.00 Hz
 ZV: 0.00 Hz
 ZW: 0.00 Hz
 ZX: 0.00 Hz
 ZY: 0.00 Hz
 ZZ: 0.00 Hz



500 COSY OF GRAC / 300K



18a, X-ray crystal structure – for full details see Ref. 15



18b, X-ray crystal structure – for full details see Ref. 15