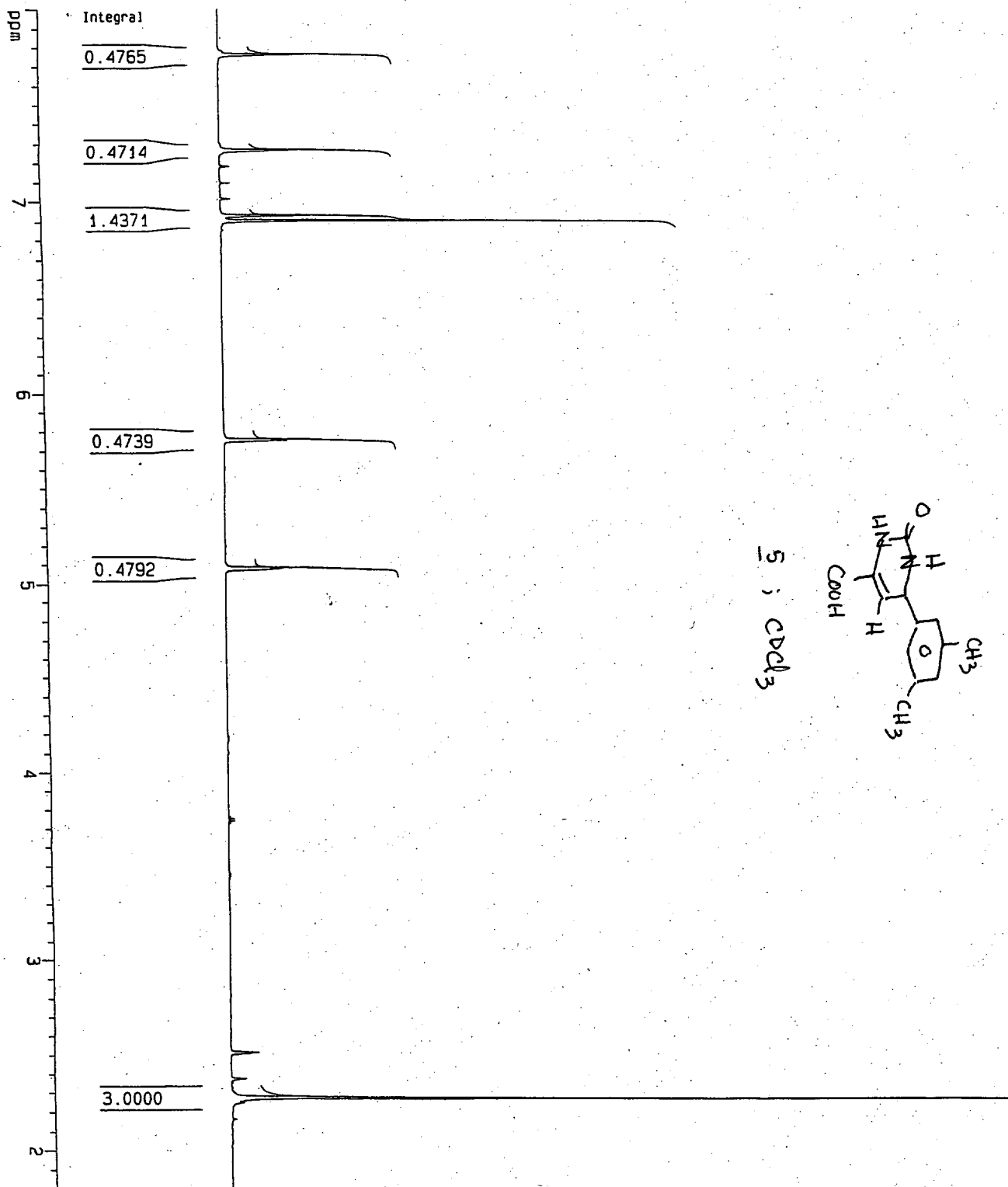
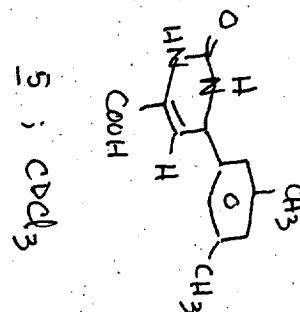


J. Bussolari 15638-114



Current Data Parameters  
NAME Apr26  
EXPNO 1  
PROCNO 1

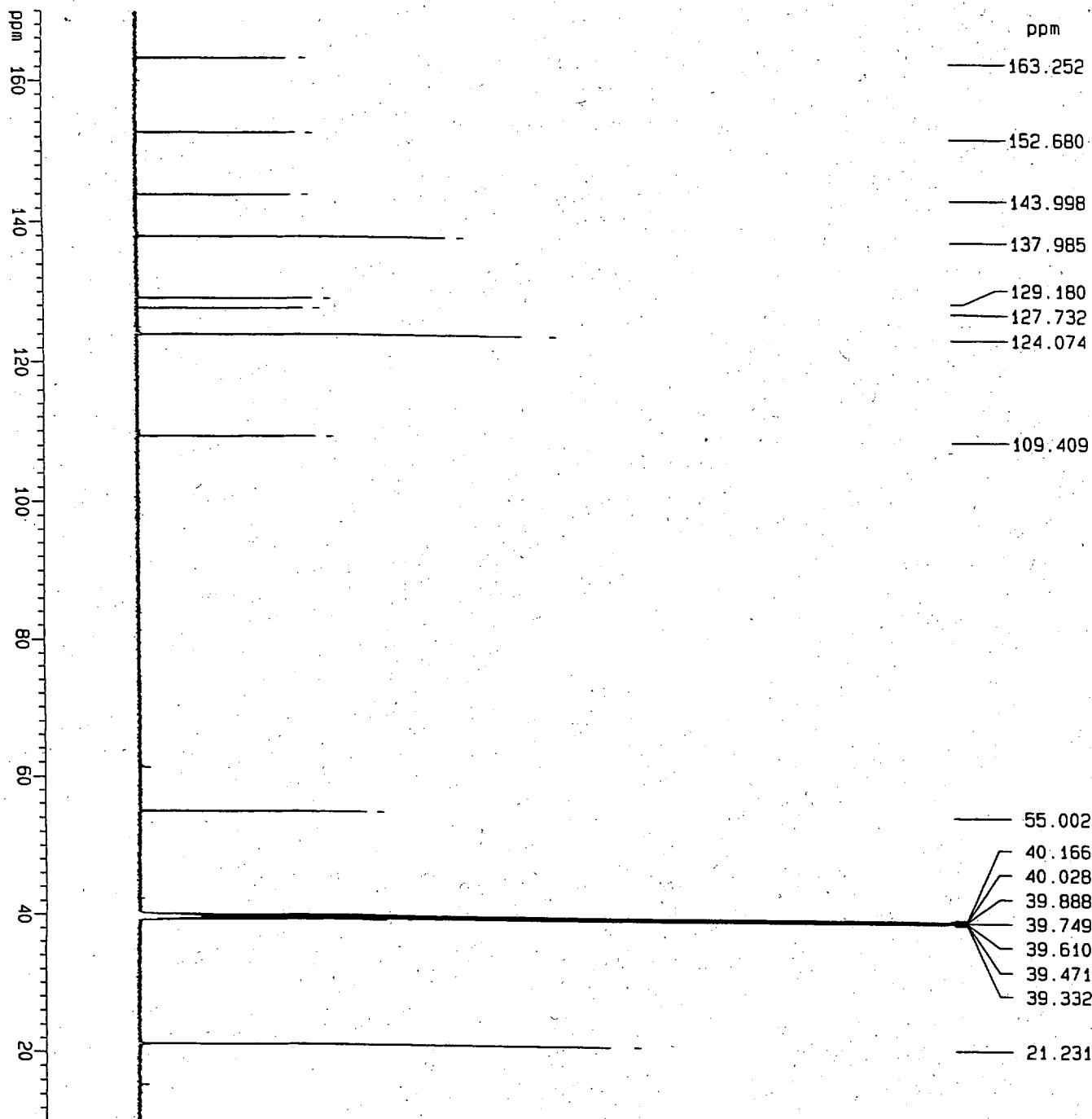
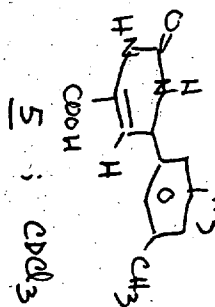
F2 - Acquisition Parameters  
Date\_ 990426  
Time 14.36  
INSTRUM spect  
PROBHD 5 mm TXI (1H)  
PULPROG zg30  
TD 32768  
SOLVENT DMSO  
NS 8  
DS 2  
SWH 6009.615 Hz  
FIDRES 0.183399 Hz  
AQ 2.7263477 sec  
RG 128  
DM 83.200 usec  
DE 6.00 usec  
TE 265.0 K  
D1 2.00000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 10.00 usec  
PL1 5.00 dB  
SFO1 600.1330005 MHz

F2 - Processing parameters  
SI 32768  
SF 600.1300000 MHz  
WDW EM  
SSB 0  
LB 0.50 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 20.00 cm  
F1P 8.000 ppm  
F1 4801.04 Hz  
F2P 1.800 ppm  
F2 1080.23 Hz  
PPMCM 0.31000 ppm/cm  
HZCM 186.04030 Hz/cm

J. Bussolari 15638-114



Current Data Parameters  
NAME Apr26  
EXPNO 4  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 990427  
Time 8.18

INSTRUM spect  
PROBHD 5 mm TXI (1H)  
PULPROG zgpg30.dg  
TO 65536  
SOLVENT CDCl3  
NS 8192  
DS 4  
SMH 33333.332 Hz  
FIDRES 0.508626 Hz  
AQ 0.9830900 sec  
RG 16384  
DM 15.000 usec  
DE 6.00 usec  
TE 300.0 K  
D1 2.00000000 sec  
d11 0.03000000 sec  
d12 0.0002000 sec

===== CHANNEL f1 =====  
NUC1 13C  
P1 15.80 usec  
PL1 -2.00 dB  
SFO1 150.9176393 MHz

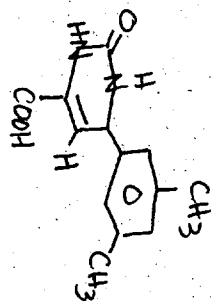
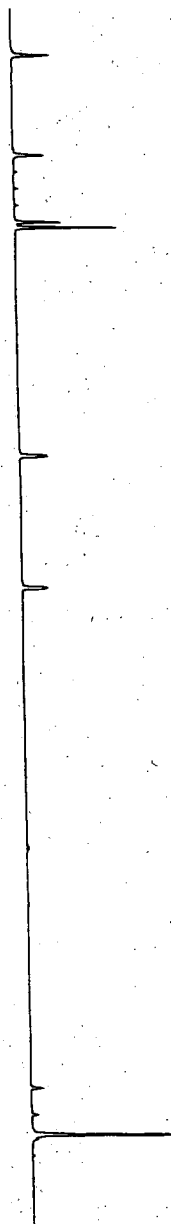
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 120.00 usec  
PL2 120.00 dB  
PL12 27.00 dB  
PL13 27.00 dB  
SFO2 600.1330006 MHz

F2 - Processing parameters  
SI 32768  
SF 150.9028387 MHz  
MDM EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 18.00 cm  
F1P 170.000 ppm  
F1 25653.48 Hz  
F2P 10.000 ppm  
F2 1509.03 Hz  
PPMCM 8.88889 ppm/cm  
HZCM 1341.35852 Hz/cm

J. Bussolari 15638-114

inverted 110 deg  
(HMQC)



Current Data Parameters  
NAME: 15638-114  
EXPNO: 2  
PROCNO: 1

F2 - Acquisition Parameters

Date\_: 14.51  
Time: 14.51  
INSTRUM: spect  
PROBHD: 5 mm 1H/1H  
PULPROG: zgpg30  
TD: 65536  
SOLVENT: DMSO  
NS: 32  
DS: 16  
SWH: 6000.615 Hz  
FIDRES: 2.33482 Hz  
AQ: 0.110443 sec  
RG: 512  
DE: 0.000000  
TE: 300.2 K  
DMSO: 145.000000  
DMSO: 0.0000000 sec  
DMSO: 2.0000000 sec  
DMSO: 0.00344828 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0024258 sec  
DMSO: 0.0002001 sec

===== CHANNEL f1 =====  
NUC1: 1H  
P1: 9.50 usec  
PL1: 15.00 dB  
SFO1: 500.136005 MHz

3

===== CHANNEL f2 =====  
CPDPRG2: gpgp  
NUC2: 13C  
P2: 15.80 usec  
PL2: 19.00 dB  
SFO2: 125.760350 MHz

F1 - Acquisition Parameters

NAME: 15638-114  
EXPNO: 2  
PROCNO: 1  
INSTRUM: spect  
PROBHD: 5 mm 1H/1H  
PULPROG: zgpg30  
TD: 65536  
SOLVENT: DMSO  
NS: 32  
DS: 16  
SWH: 6000.615 Hz  
FIDRES: 2.33482 Hz  
AQ: 0.110443 sec  
RG: 512  
DE: 0.000000  
TE: 300.2 K  
DMSO: 145.000000  
DMSO: 0.0000000 sec  
DMSO: 2.0000000 sec  
DMSO: 0.00344828 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0002000 sec  
DMSO: 0.0024258 sec  
DMSO: 0.0002001 sec

F2 - Processing Parameters

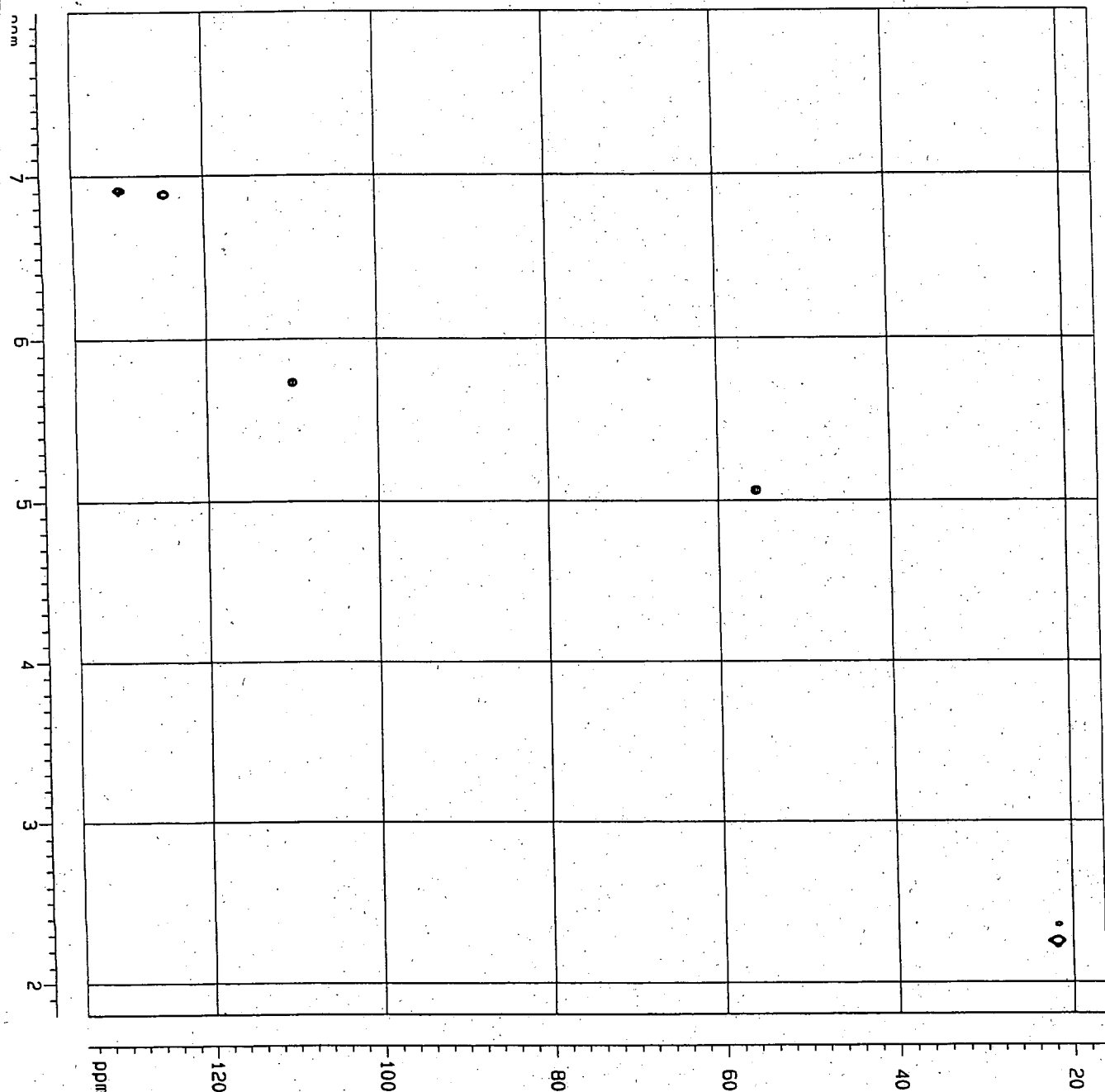
SI: 600.136005 MHz  
SF: 125.760350 MHz  
WDW: EM  
SSB: 0  
LB: 0.00 Hz  
GB: 0  
PC: 1.00

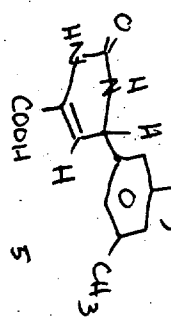
F1 - Processing Parameters

SI: 500.136005 MHz  
SF: 125.760350 MHz  
WDW: EM  
SSB: 0  
LB: 0.00 Hz  
GB: 0  
PC: 1.00

2D HMQC plot parameters

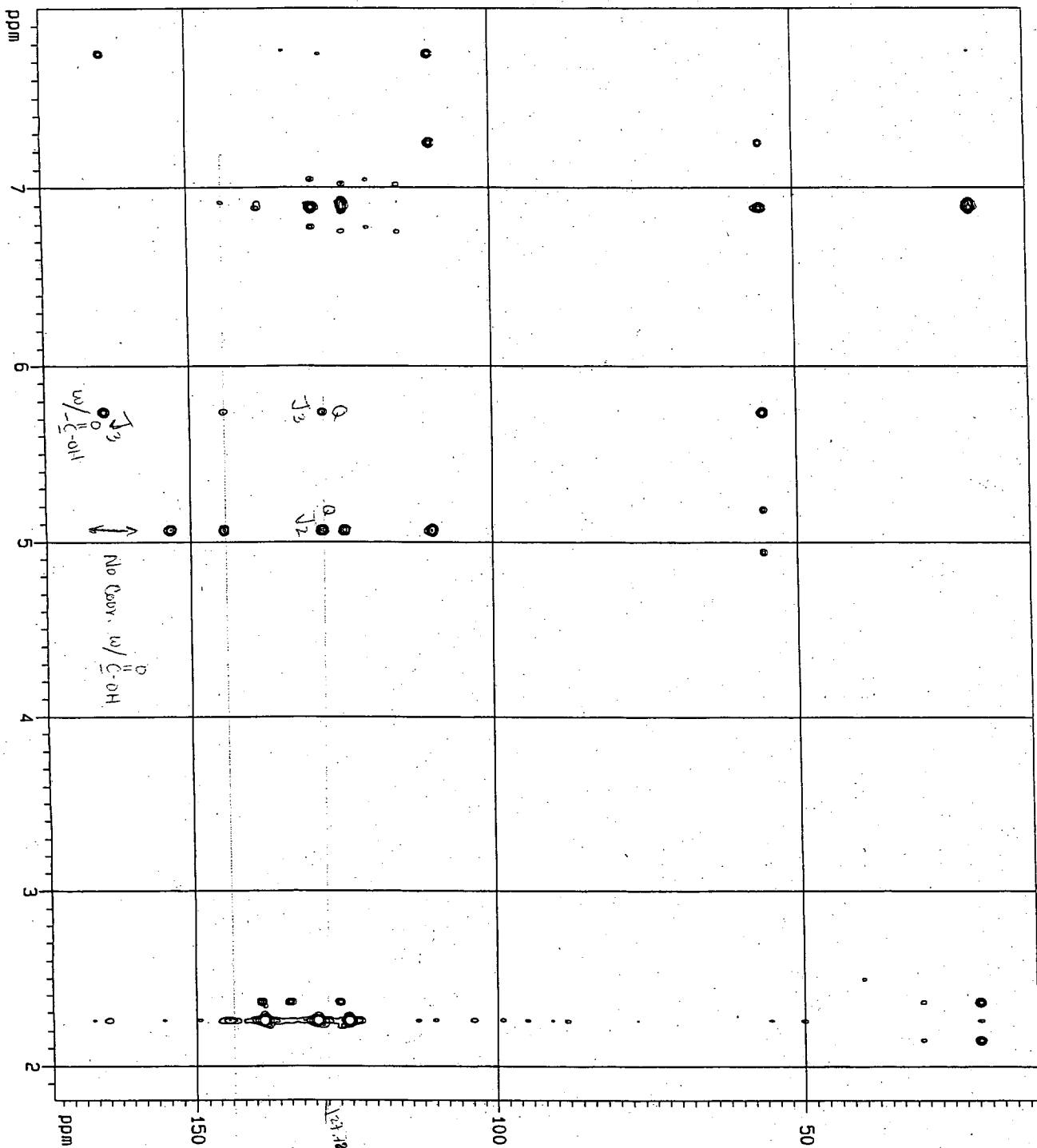
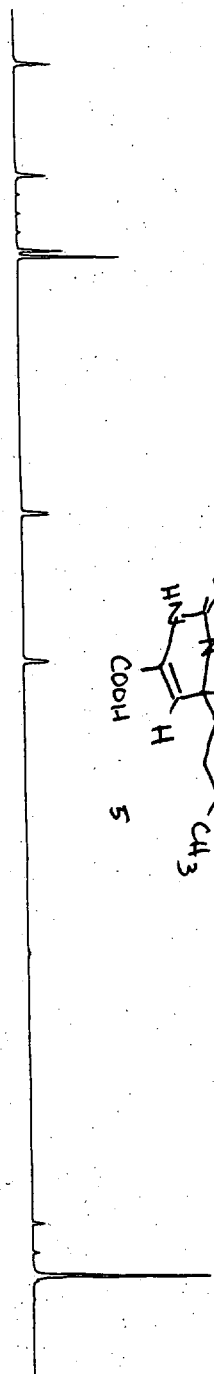
CH2: 15.80 usec  
F1: 15.80 usec  
F2: 15.80 usec  
F3: 15.80 usec  
F4: 15.80 usec  
F5: 15.80 usec  
F6: 15.80 usec  
F7: 15.80 usec  
F8: 15.80 usec  
F9: 15.80 usec  
F10: 15.80 usec  
F11: 15.80 usec  
F12: 15.80 usec  
F13: 15.80 usec  
F14: 15.80 usec  
F15: 15.80 usec  
F16: 15.80 usec  
F17: 15.80 usec  
F18: 15.80 usec  
F19: 15.80 usec  
F20: 15.80 usec  
F21: 15.80 usec  
F22: 15.80 usec  
F23: 15.80 usec  
F24: 15.80 usec  
F25: 15.80 usec  
F26: 15.80 usec  
F27: 15.80 usec  
F28: 15.80 usec  
F29: 15.80 usec  
F30: 15.80 usec  
F31: 15.80 usec  
F32: 15.80 usec  
F33: 15.80 usec  
F34: 15.80 usec  
F35: 15.80 usec  
F36: 15.80 usec  
F37: 15.80 usec  
F38: 15.80 usec  
F39: 15.80 usec  
F40: 15.80 usec  
F41: 15.80 usec  
F42: 15.80 usec  
F43: 15.80 usec  
F44: 15.80 usec  
F45: 15.80 usec  
F46: 15.80 usec  
F47: 15.80 usec  
F48: 15.80 usec  
F49: 15.80 usec  
F50: 15.80 usec  
F51: 15.80 usec  
F52: 15.80 usec  
F53: 15.80 usec  
F54: 15.80 usec  
F55: 15.80 usec  
F56: 15.80 usec  
F57: 15.80 usec  
F58: 15.80 usec  
F59: 15.80 usec  
F60: 15.80 usec  
F61: 15.80 usec  
F62: 15.80 usec  
F63: 15.80 usec  
F64: 15.80 usec  
F65: 15.80 usec  
F66: 15.80 usec  
F67: 15.80 usec  
F68: 15.80 usec  
F69: 15.80 usec  
F70: 15.80 usec  
F71: 15.80 usec  
F72: 15.80 usec  
F73: 15.80 usec  
F74: 15.80 usec  
F75: 15.80 usec  
F76: 15.80 usec  
F77: 15.80 usec  
F78: 15.80 usec  
F79: 15.80 usec  
F80: 15.80 usec  
F81: 15.80 usec  
F82: 15.80 usec  
F83: 15.80 usec  
F84: 15.80 usec  
F85: 15.80 usec  
F86: 15.80 usec  
F87: 15.80 usec  
F88: 15.80 usec  
F89: 15.80 usec  
F90: 15.80 usec  
F91: 15.80 usec  
F92: 15.80 usec  
F93: 15.80 usec  
F94: 15.80 usec  
F95: 15.80 usec  
F96: 15.80 usec  
F97: 15.80 usec  
F98: 15.80 usec  
F99: 15.80 usec  
F100: 15.80 usec





J. Bussolari 15638-114

HMBC



Current Data Parameters  
NAME: J. Bussolari 15638-114  
EXPNO: 3  
PROCNO: 1

F2 - Acquisition Parameters  
Date\_: 8/26/20  
Time: 19:30  
INSTRUM: spect  
PROBHD: 5 mm 1H/13  
PULPROG: zgpg30  
TD: 65536  
SOLVENT: DMSO  
NS: 64  
DS: 4  
SWH: 16309.815 Hz  
FIDRES: 0.1704435 Hz  
AQ: 1.024  
RG: 83.200  
DE: 5.00 usec  
TE: 298.0 K

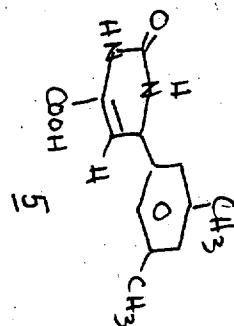
===== CHANNEL f1 =====  
NUC1: 13C  
P1: 9.00 usec  
PL1: 0.00 dB  
RF1: 125.760 MHz  
===== CHANNEL f2 =====  
NUC2: 1H  
P2: 15.00 usec  
PL2: -2.00 dB  
RF2: 500.136037 MHz  
===== CHANNEL f3 =====  
P3: 1000.00 usec  
PL3: 0.00 dB  
RF3: 1000.136037 MHz

F1 - Acquisition Parameters  
AQ: 2.56  
TO: 150.9178 MHz  
SF01: 117.924530 MHz  
FIDRES: 200.034 ppm  
SFO1: 600.135000 MHz

F2 - Processing Parameters  
SI: 32768  
SF: 600.135000 MHz  
WDW: EM  
SSB: 0  
LB: 0.00 Hz  
GB: 0  
PC: 1.00

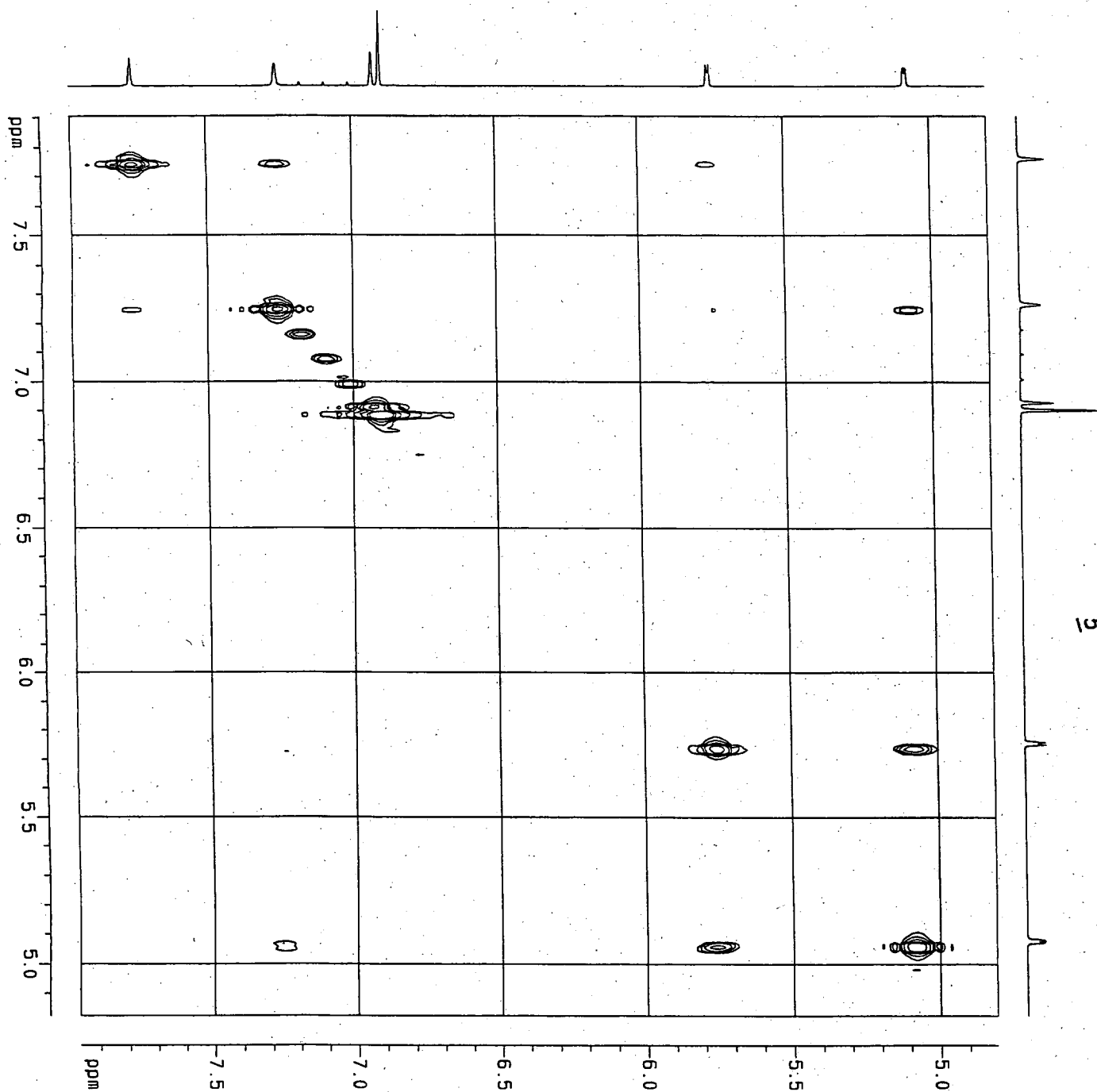
F3 - Processing Parameters  
SI: 32768  
SF: 512  
WDW: EM  
SSB: 0  
LB: 0.00 Hz  
GB: 0  
PC: 1.00

2D NMR Data Parameters  
C12: 19.00 cm  
C11: 16.00 cm  
F2D0: 7.399 ppm  
F2D1: 4.800 ppm  
F2D2: 1.808 ppm  
F2D3: 1.095 ppm  
F2D4: 1.095 ppm  
F2D5: 1.095 ppm  
F2D6: 1.095 ppm  
F2D7: 1.095 ppm  
F2D8: 1.095 ppm  
F2D9: 1.095 ppm  
F2D10: 1.095 ppm  
F2D11: 1.095 ppm  
F2D12: 1.095 ppm  
F2D13: 1.095 ppm  
F2D14: 1.095 ppm  
F2D15: 1.095 ppm  
F2D16: 1.095 ppm  
F2D17: 1.095 ppm  
F2D18: 1.095 ppm  
F2D19: 1.095 ppm  
F2D20: 1.095 ppm  
F2D21: 1.095 ppm  
F2D22: 1.095 ppm  
F2D23: 1.095 ppm  
F2D24: 1.095 ppm  
F2D25: 1.095 ppm  
F2D26: 1.095 ppm  
F2D27: 1.095 ppm  
F2D28: 1.095 ppm  
F2D29: 1.095 ppm  
F2D30: 1.095 ppm  
F2D31: 1.095 ppm  
F2D32: 1.095 ppm  
F2D33: 1.095 ppm  
F2D34: 1.095 ppm  
F2D35: 1.095 ppm  
F2D36: 1.095 ppm  
F2D37: 1.095 ppm  
F2D38: 1.095 ppm  
F2D39: 1.095 ppm  
F2D40: 1.095 ppm  
F2D41: 1.095 ppm  
F2D42: 1.095 ppm  
F2D43: 1.095 ppm  
F2D44: 1.095 ppm  
F2D45: 1.095 ppm  
F2D46: 1.095 ppm  
F2D47: 1.095 ppm  
F2D48: 1.095 ppm  
F2D49: 1.095 ppm  
F2D50: 1.095 ppm  
F2D51: 1.095 ppm  
F2D52: 1.095 ppm  
F2D53: 1.095 ppm  
F2D54: 1.095 ppm  
F2D55: 1.095 ppm  
F2D56: 1.095 ppm  
F2D57: 1.095 ppm  
F2D58: 1.095 ppm  
F2D59: 1.095 ppm  
F2D60: 1.095 ppm  
F2D61: 1.095 ppm  
F2D62: 1.095 ppm  
F2D63: 1.095 ppm  
F2D64: 1.095 ppm  
F2D65: 1.095 ppm  
F2D66: 1.095 ppm  
F2D67: 1.095 ppm  
F2D68: 1.095 ppm  
F2D69: 1.095 ppm  
F2D70: 1.095 ppm  
F2D71: 1.095 ppm  
F2D72: 1.095 ppm  
F2D73: 1.095 ppm  
F2D74: 1.095 ppm  
F2D75: 1.095 ppm  
F2D76: 1.095 ppm  
F2D77: 1.095 ppm  
F2D78: 1.095 ppm  
F2D79: 1.095 ppm  
F2D80: 1.095 ppm  
F2D81: 1.095 ppm  
F2D82: 1.095 ppm  
F2D83: 1.095 ppm  
F2D84: 1.095 ppm  
F2D85: 1.095 ppm  
F2D86: 1.095 ppm  
F2D87: 1.095 ppm  
F2D88: 1.095 ppm  
F2D89: 1.095 ppm  
F2D90: 1.095 ppm  
F2D91: 1.095 ppm  
F2D92: 1.095 ppm  
F2D93: 1.095 ppm  
F2D94: 1.095 ppm  
F2D95: 1.095 ppm  
F2D96: 1.095 ppm  
F2D97: 1.095 ppm  
F2D98: 1.095 ppm  
F2D99: 1.095 ppm  
F2D100: 1.095 ppm



J. Bussolari 15638-114

cosy



Current Data Parameters  
 NAME: J. Bussolari  
 EXPNO: 6  
 PROCNO: 1  
 Date\_: 9/04/27  
 Time: 8:59  
 INSTRUM: spect  
 PULPROG: zgpg30  
 TO: 2048  
 SOLVENT: DMSO  
 NS: 1  
 DS: 8  
 SWH: 6000.615 Hz  
 FIDRES: 0.174438 sec  
 AQ: 512  
 RG: 83.200 usec  
 DE: 6.00 usec  
 TE: 300.0 K  
 D0: 0.0000300 sec  
 D1: 2.0000000 sec  
 d13: 0.0000300 sec  
 D15: 0.0001500 sec  
 IN0: 0.0001563 sec

===== CHANNEL f1 =====  
 NUC1: 1H  
 P0: 10.00 usec  
 P1: 10.00 usec  
 PL1: 5.00 dB  
 SFO1: 600.130006 MHz

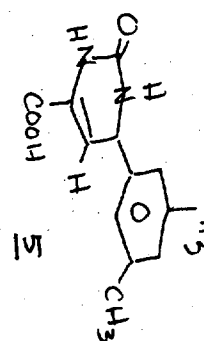
===== GRADIENT CHANNEL =====  
 P16: 1000.00 usec

F1 - Acquisition Parameters  
 MD: 1  
 TD: 128  
 SFO1: 600.13 MHz  
 FIDRES: 46.866723 Hz  
 SN: 10.000 ppm

F2 - Processing Parameters  
 SI: 1024  
 SF: 600.1300117 MHz  
 WDM: SINE  
 SSB: 0  
 LB: 0.00 Hz  
 GB: 0  
 PC: 1.00

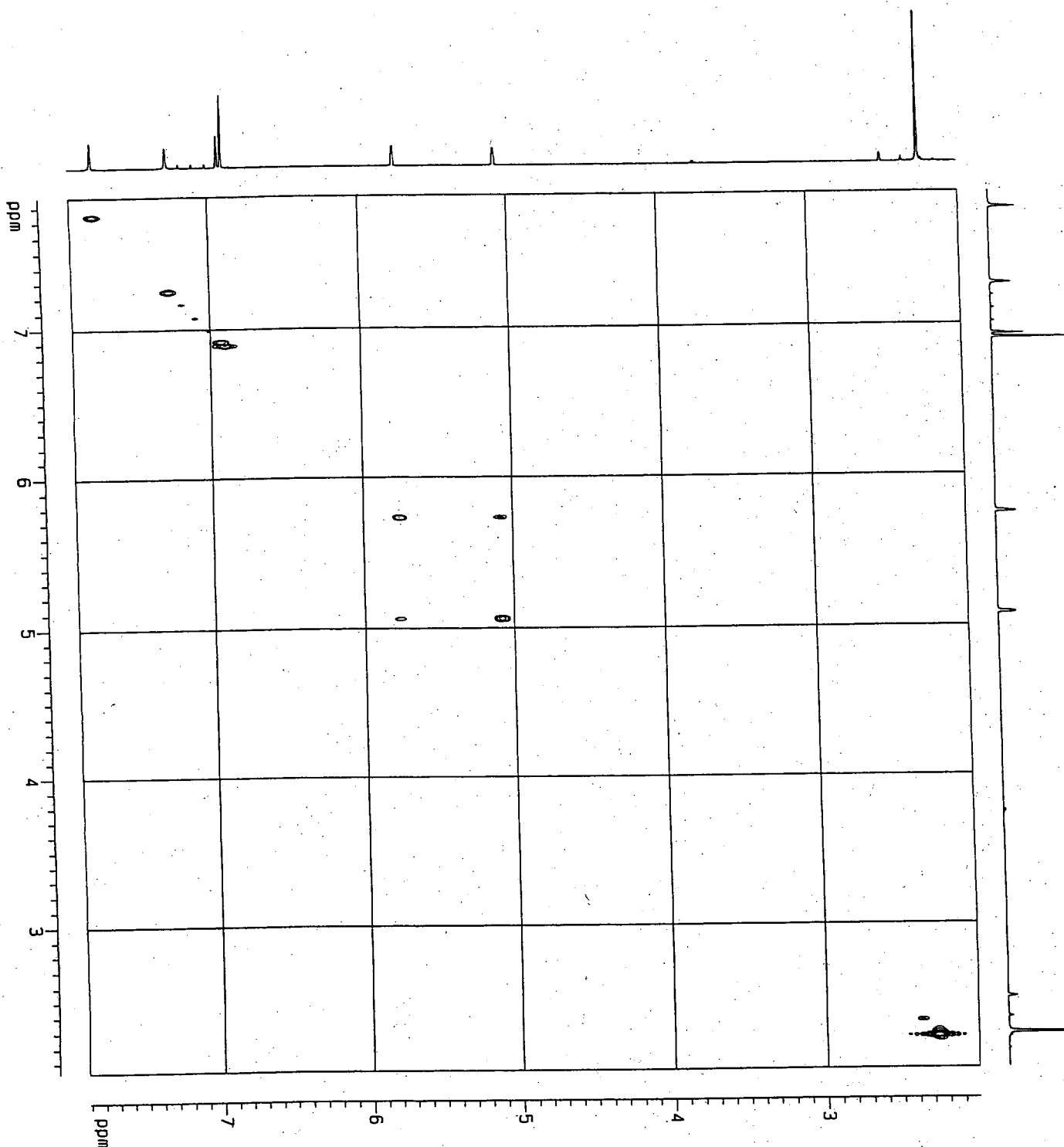
F1 - Processing Parameters  
 SI: 512  
 MC2: OF  
 SF: 600.1269994 MHz  
 WDM: SINE  
 SSB: 0  
 LB: 0.00 Hz  
 GB: 0

2D NMR p10t parameters  
 CK2: 15.00 ca  
 CK1: 15.00 ca  
 F2RLO: 7.393 ppm  
 F2LLO: 4.4373 Hz  
 F2PHI: 4.824 ppm  
 F2PHI: 2895.07 Hz  
 F1RLO: 7.969 ppm  
 F1LLO: 4.78233 Hz  
 F1PHI: 4.805 ppm  
 F1PHI: 2893.42 Hz  
 F2PCHM: 0.20536 ppm/ca  
 F2PCHM: 123.24409 Hz/ca  
 F1PCHM: 0.21099 ppm/ca  
 F1PCHM: 126.59415 Hz/ca



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Cosy



Current Data Parameters  
NAME Apr26  
EXPNO 6  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 990427  
Time 8.59

INSTRUM spect  
PROBHD 5 mm 1H1  
PULPROG zgpg30  
TD 65536  
SOLVENT DMSO  
NS 1  
DS 8  
F2 600.915 Hz  
F1 2.934382 Hz  
AQ 0.1704436 sec  
RG 512  
PC 83.200 usec  
DC 6.00 usec  
DE 300.0 K  
TE 0.0000300 sec  
D1 2.0000000 sec  
O1 0.0000300 sec  
O16 0.0001500 sec  
IN0 0.00016563 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
PQ 10.00 usec  
PL 10.00 usec  
PL1 5.00 dB  
SF01 600.130006 MHz  
\*\*\*\*\* GRADIENT CHANNEL \*\*\*\*\*  
P16 1000.00 usec

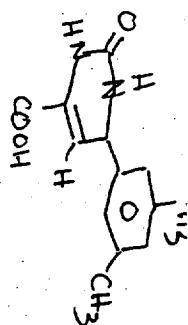
F1 - Acquisition Parameters  
ND0 1  
TD 128  
SF01 600.13 MHz  
FREQS 46.886723 Hz  
SI 10.000 ppm

F2 - Processing Parameters  
SI 1024  
SF 600.1300117 MHz  
WDW SINE  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

F1 - Processing Parameters  
SI 512  
SF 600.1300117 MHz  
WDW SINE  
SSB 0  
LB 0.00 Hz  
GB 0

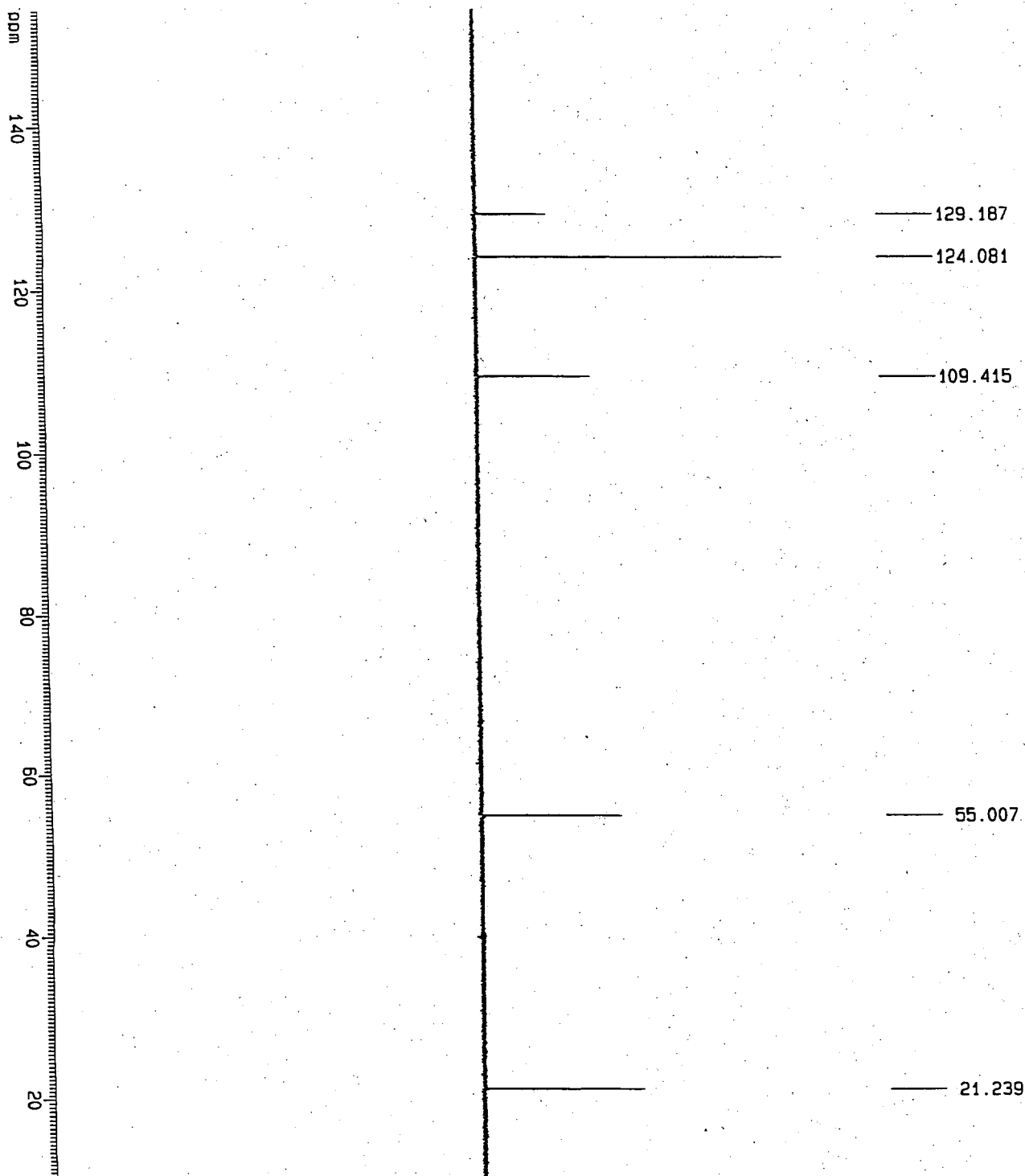
2D NMR plot parameters  
CA2 15.00 cm  
CX1 15.00 cm  
F2PUL 7.865 ppm  
F2LO 4720.25 Hz  
F2PH1 2.037 ppm  
F2PH2 1222.47 Hz  
F2PUL 7.910 ppm  
F2LO 4747.16 Hz  
F2PH1 2.012 ppm  
F2PH2 1207.22 Hz  
F2PUL 0.38956 ppm/cm  
F2LO 23.18559 Hz/cm  
F2PUL 0.38924 ppm/cm  
F2LO 23.39651 Hz/cm

J. Bussolari 15638-114



DEPT

ppm



Current Data Parameters  
NAME Apr26  
EXPNO 5  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 990427  
Time 8.57

INSTRUM spect  
PROBHD 5 mm TXI (1H)

PULPROG dept135  
TD 65536

SOLVENT CD3CN  
NS 680

DS 16  
SMH 24038.461 Hz

FIDRES 0.366798 Hz  
AQ 1.3631986 sec

RG 16384  
DM 20.800 usec

DE 6.00 usec  
TE 300.0 K

CNST2 145.0000000  
D1 2.00000000 sec

d2 0.00344828 sec  
d12 0.00002000 sec

DELTA 0.00002012 sec

===== CHANNEL f1 =====  
NUC1 13C

P1 15.80 usec  
P2 31.60 usec

PL1 -2.00 dB  
SF01 150.9140667 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16

NUC2 1H

P3 9.00 usec  
P4 18.00 usec

PCPD2 120.00 usec  
PL2 5.00 dB

PL12 27.00 dB  
SF02 600.130006 MHz

F2 - Processing parameters  
SI 32768

SF 150.9028376 MHz  
MDM EM

SSB 0  
LB 1.00 Hz

GB 0  
PC 1.00

ID NMR plot parameters  
CX 20.00 cm

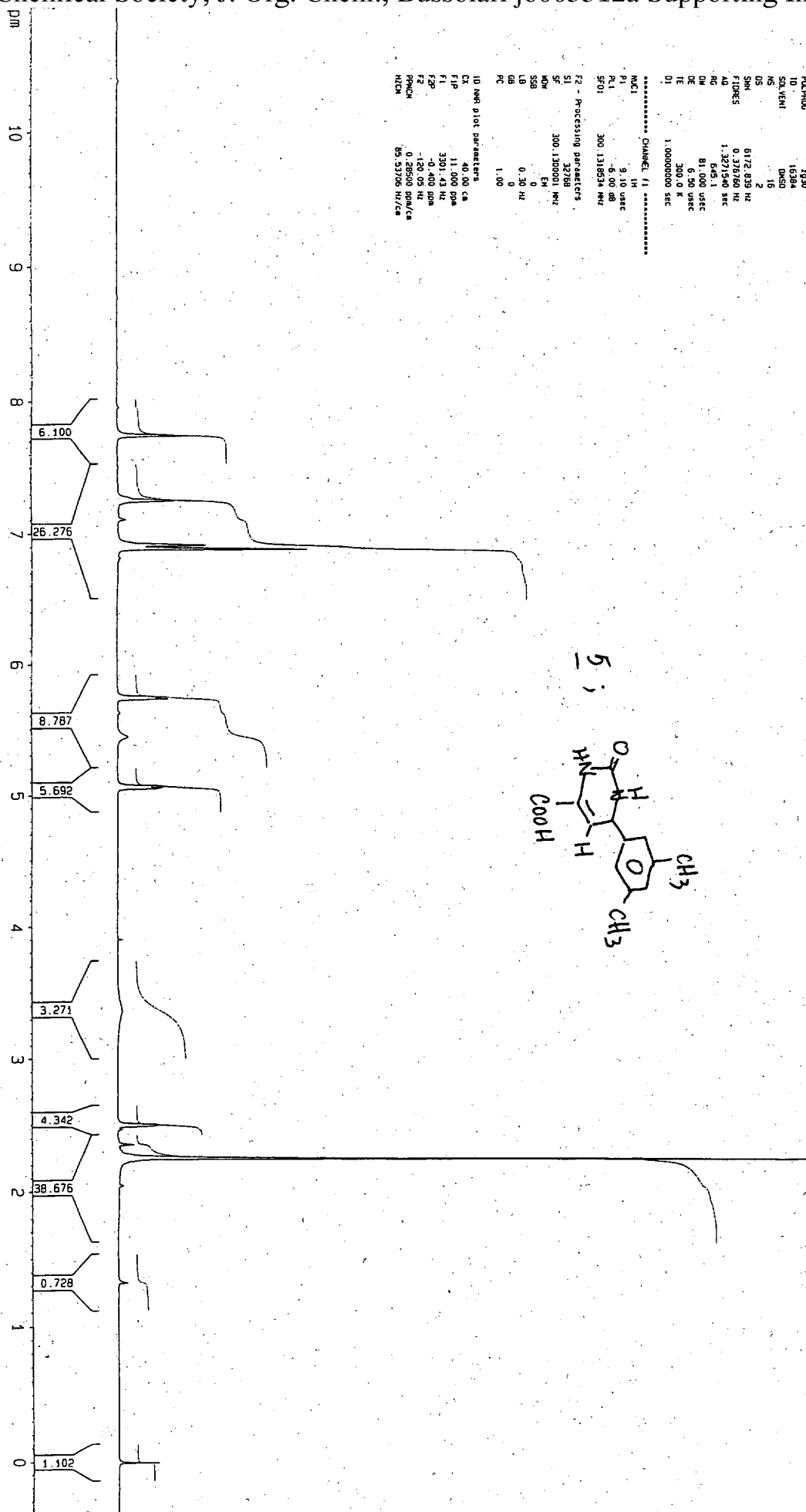
F3P 160.000 ppm  
F1 24144.45 Hz

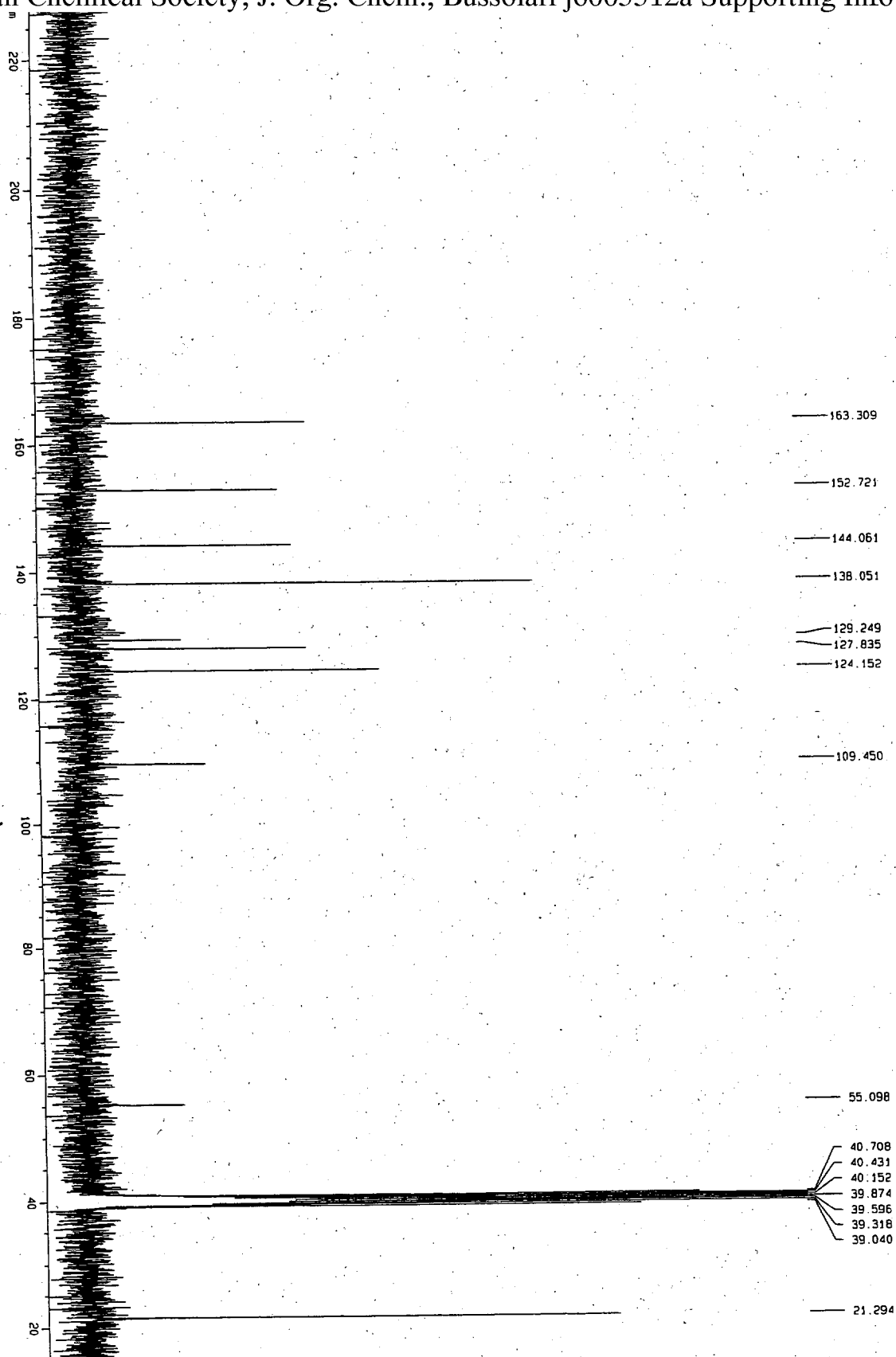
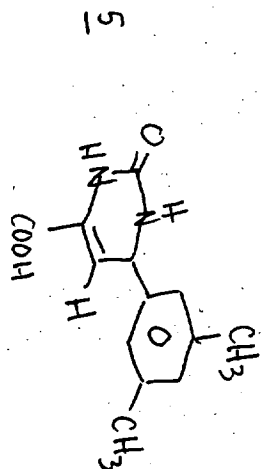
F2P 10.000 ppm  
F2 1509.03 Hz

PPMCM 7.50000 ppm/cm  
HZCM 1131.77112 Hz/cm

JCB-15638-114

Current Data Parameters  
 NAME B15JFeb16-200  
 EXNO 830  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20000216  
 Time 18.02  
 INSTRUM spect  
 PROBHD 5 mm Dual 13  
 NUC1 13C  
 NUC2 15N  
 SOLVENT DMSO  
 NS 16  
 DS 2  
 SWH 6172.833 Hz  
 FIDRES 0.376760 Hz  
 AQ 1.3271540 sec  
 RG 645.1  
 AC 81.000 usec  
 DE 6.50 usec  
 TE 300.2 K  
 D1 1.00000000 sec  
 \*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
 NUC1 13C  
 P1 9.10 usec  
 PL1 -6.00 dB  
 SFO1 300.1318534 MHz  
 F2 - Processing parameters  
 SI 32768  
 SF 300.1300001 MHz  
 KW 64  
 EN 1  
 SI 32768  
 LB 0.30 Hz  
 GB 0  
 PC 1.00  
 10 NMR list parameters  
 CX 40.00 CA  
 FLIP 11.000 PPM  
 F1 3301.43 Hz  
 F2 -0.400 ppm  
 F2 -120.05 Hz  
 PRNCH 0.28500 ppm/Hz  
 NUCN B2-53700 Hz/CA





Current Data Parameters  
 NAME: P1350\_0678-2  
 EXPNO: 170  
 PROCNO: 1

F2 - Acquisition Parameters  
 Date\_: 20000429  
 Time: 4.30  
 INSTRUM: spect  
 PROBHD: 5 mm NUTPRO  
 PULPROG: zgpg30  
 TO: 25930  
 SOLVENT: DMSO  
 NS: 4  
 DS: 4  
 SWH: 18832.393 Hz  
 FIDRES: 0.287350 Hz  
 AQ: 1.7403308 sec  
 RG: 16384  
 DA: 25.550 usec  
 DE: 550.0 usec  
 TE: 300.0 K  
 O1: 2.00000000 sec  
 D11: 0.03000000 sec  
 D12: 0.00020000 sec

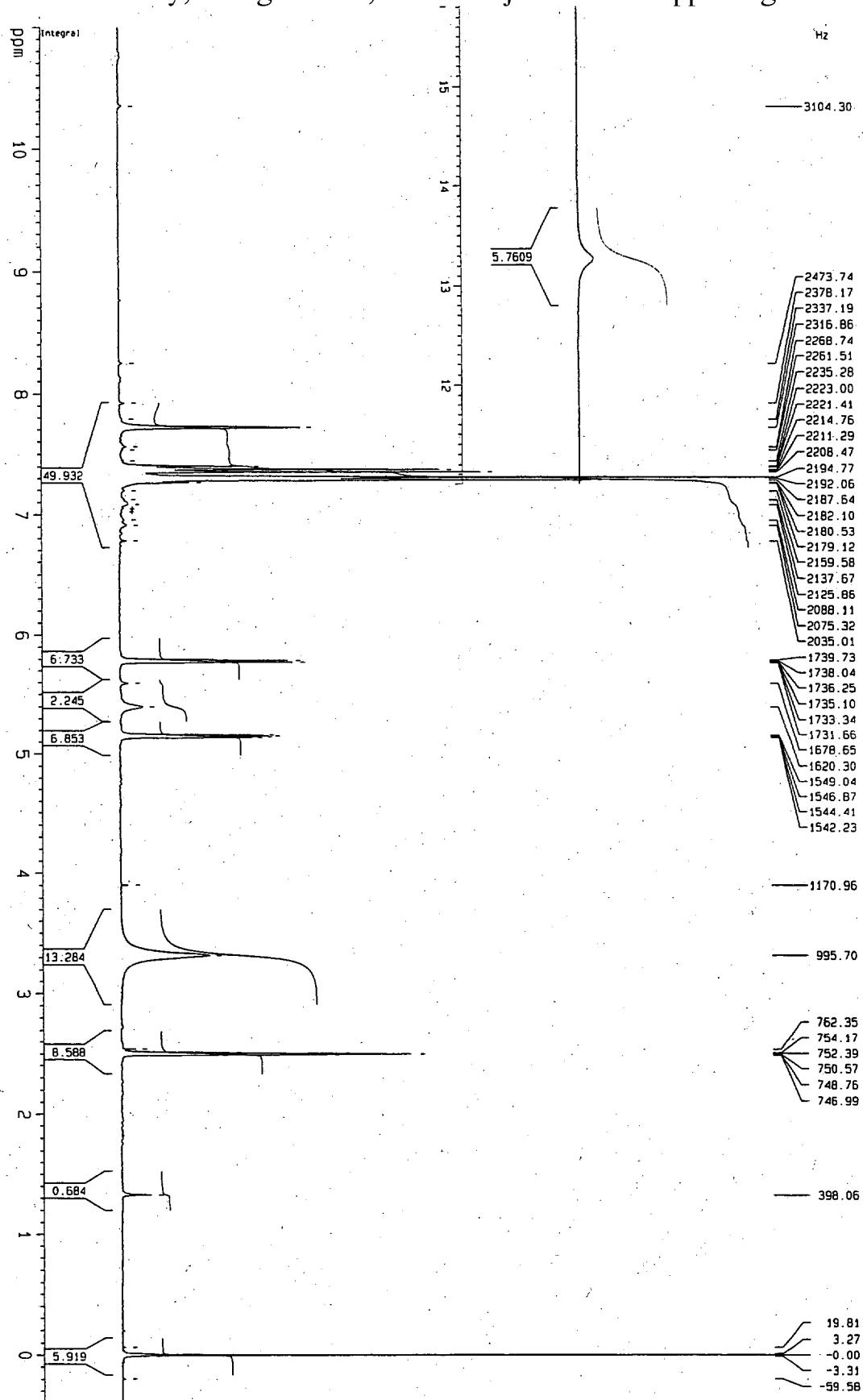
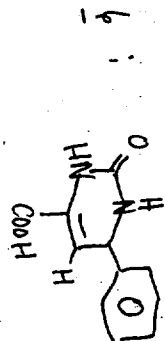
===== CHANNEL f1 =====  
 NUC1: 13C  
 P1: 1.00 usec  
 PL1: -1.00 dB  
 SF01: 75.476300 MHz

===== CHANNEL f2 =====  
 CPDPRG2: mltipls  
 NUC2: 1H  
 PCD2: 80.00 usec  
 PL2: -1.00 dB  
 PL3: 21.00 dB  
 PL13: 120.00 dB  
 SF02: 200.131205 MHz

F2 - Processing parameters  
 SI: 32768  
 SF: 75.467750 MHz  
 MD: 64  
 SSB: 0  
 GB: 0  
 PC: 1.40

10 MHz plot parameters  
 CX: 25.00 cm  
 FIP: 250.150 cm  
 F1: 125.0750 MHz  
 F2: 15.000 000 MHz  
 F2: 112.02 MHz  
 PPM/CM: 6.14286 ppm/cm  
 MICH: 463.58765 Hz/cm

JCB-16012-05



Current Data Parameters  
NAME PCC300\_Ap26-2  
EXPNO 260  
PROCNO 1

F2 - Acquisition Parameters  
DATE\_ 20000514  
TIME 15:40  
INSTRUM spect  
PROBHD 5 mm H11111111  
PULPROG zgpg30  
TO 1830  
TD 32768  
SOLVENT DMSO  
NS 16  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.185331 Hz  
AQ 2.6542580 sec  
RG 724.1  
DM 81.000 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.0000000 sec

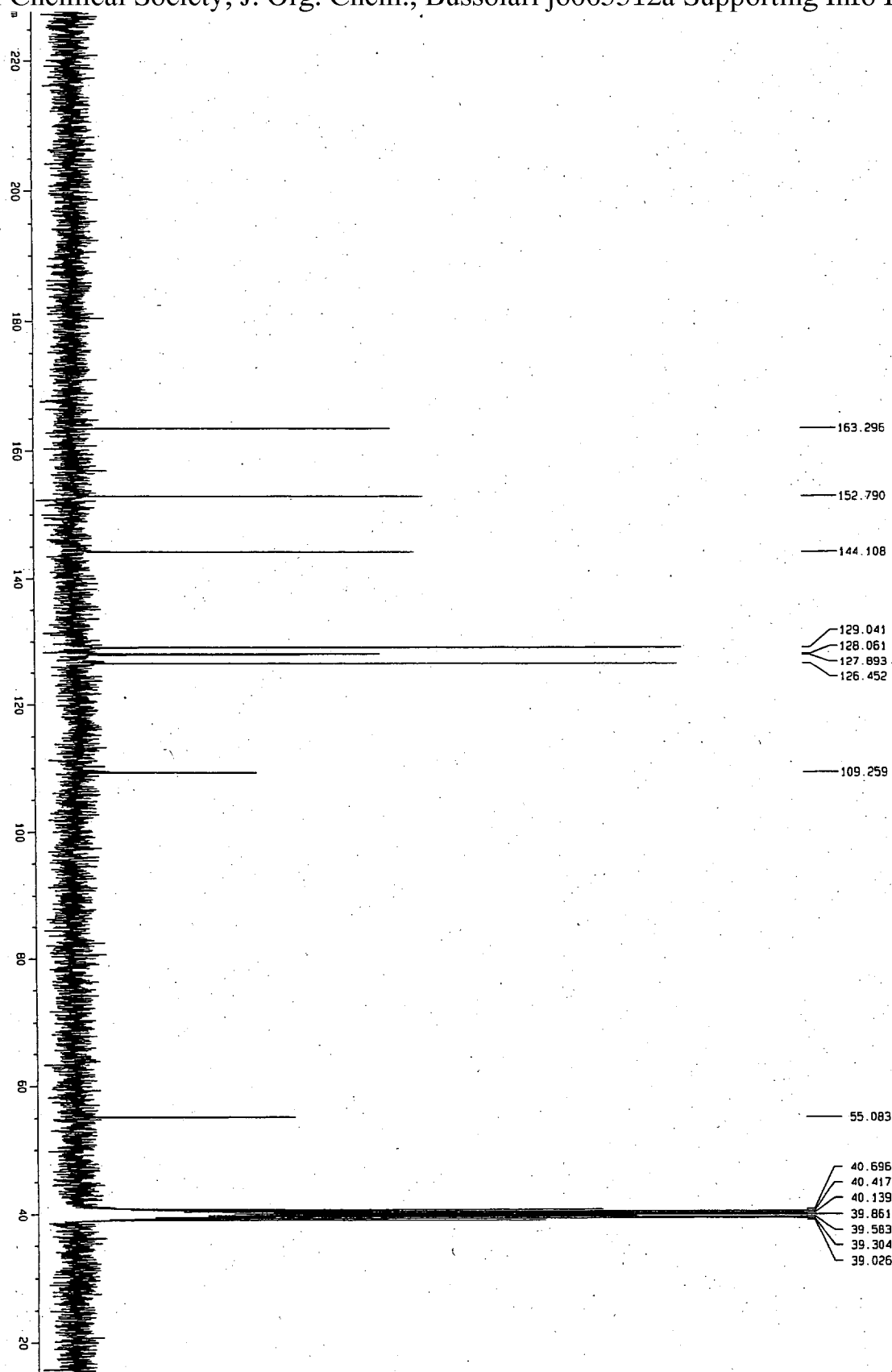
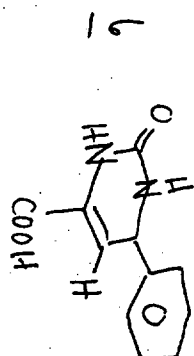
===== CHANNEL f1 =====  
NUC1 1H  
P1 5.00 nsec  
PL1 -1.50 dB  
SFO1 300.136034 MHz

F2 - Processing parameters  
SI 32768  
SF 300.130013 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 35.00 cm  
C1P 11.000 pps  
F1 3301.43 Hz  
F2 -0.400 pps  
F2 0.32971 ppm/cm  
NUC1 1H  
NUC2 13C

S10

jc0-16012-05



Current Data Parameters  
NAME: JC0016012-05  
EXPNO: 150  
PROCNO: 1

F2 - Acquisition Parameters  
Date\_: 20000428  
Time: 0.02  
INSTRUM: spect  
PROBHD: 5 mm Multinu  
PULPROG: zgpg30  
FIDRES: 0.000100  
SOLVENT: DMSO  
NS: 2048  
DS: 4  
SWH: 18832.393 Hz  
FIDRES: 0.287360 Hz  
AQ: 1.740338 sec  
RG: 16384  
DM: 28.250 usec  
DE: 1.500 usec  
TE: 300.0 K  
D1: 2.00000000 sec  
D11: 0.03000000 sec  
D12: 0.00030000 sec

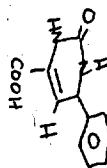
===== CHANNEL f1 =====  
NUC1: 13  
P1: 12.50 usec  
PL1: -1.00 dB  
SFO1: 75.476300 MHz

===== CHANNEL f2 =====  
CPDPRG2: waltz16  
NUC2: 1H  
PCPD2: 60.00 usec  
PL2: -1.50 dB  
PL12: 21.00 dB  
PL13: 120.00 dB  
SFO2: 300.131200 MHz

F2 - Processing parameters  
SI: 32768  
SF: 75.467780 MHz  
WDW: 0  
SSB: 0  
LB: 1.00 Hz  
GB: 0  
PC: 1.40

10 NMR plot parameters  
F1: 23.000 MHz  
F2: 17327.58 Hz  
FAP: 15.000 ppm  
F2: 1132.02 Hz  
PNUCH: 6.14286 ppm/cps  
MICH: 463.58765 Hz/cps

S



PHOTONIC

...

Time

PROBIL  
0111 2000

COM WEN  
ID

2. 5

5M4  
C10000

86

30

3.

END.

\*\*\*\*\*

P1

SF01

10

FIGURE 5

15

**MDM**

18

PC .

MC2

MDK

16

CX2

F2PL0

F2PHI

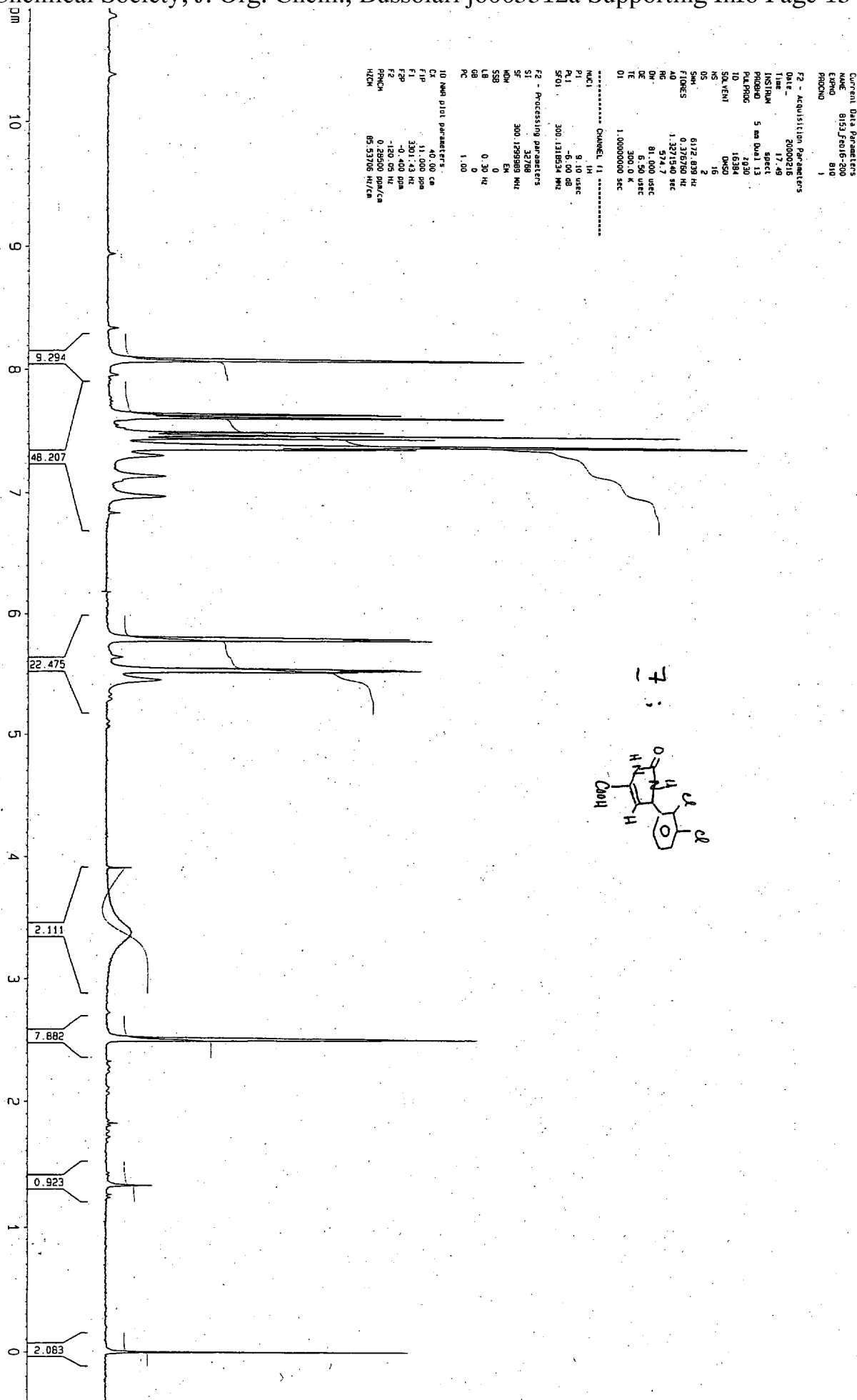
F1PL0  
E110

FIPPI  
CIMI

F2H7C

F1H7C

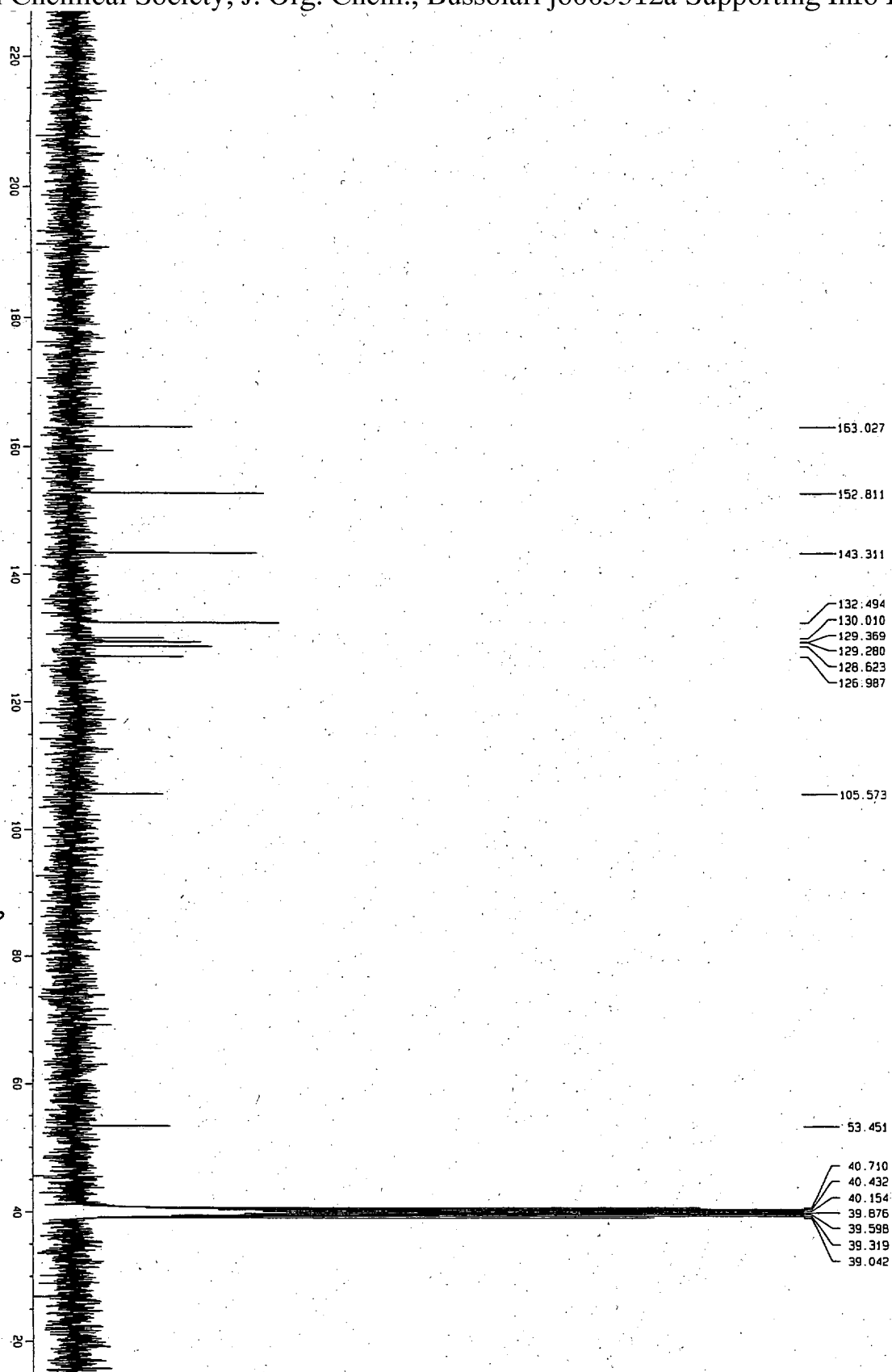
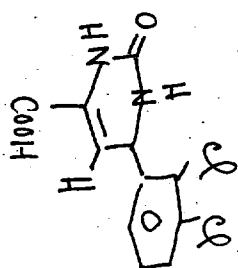
JCB-16012-07



S<sub>13</sub>

jcd-16012-07

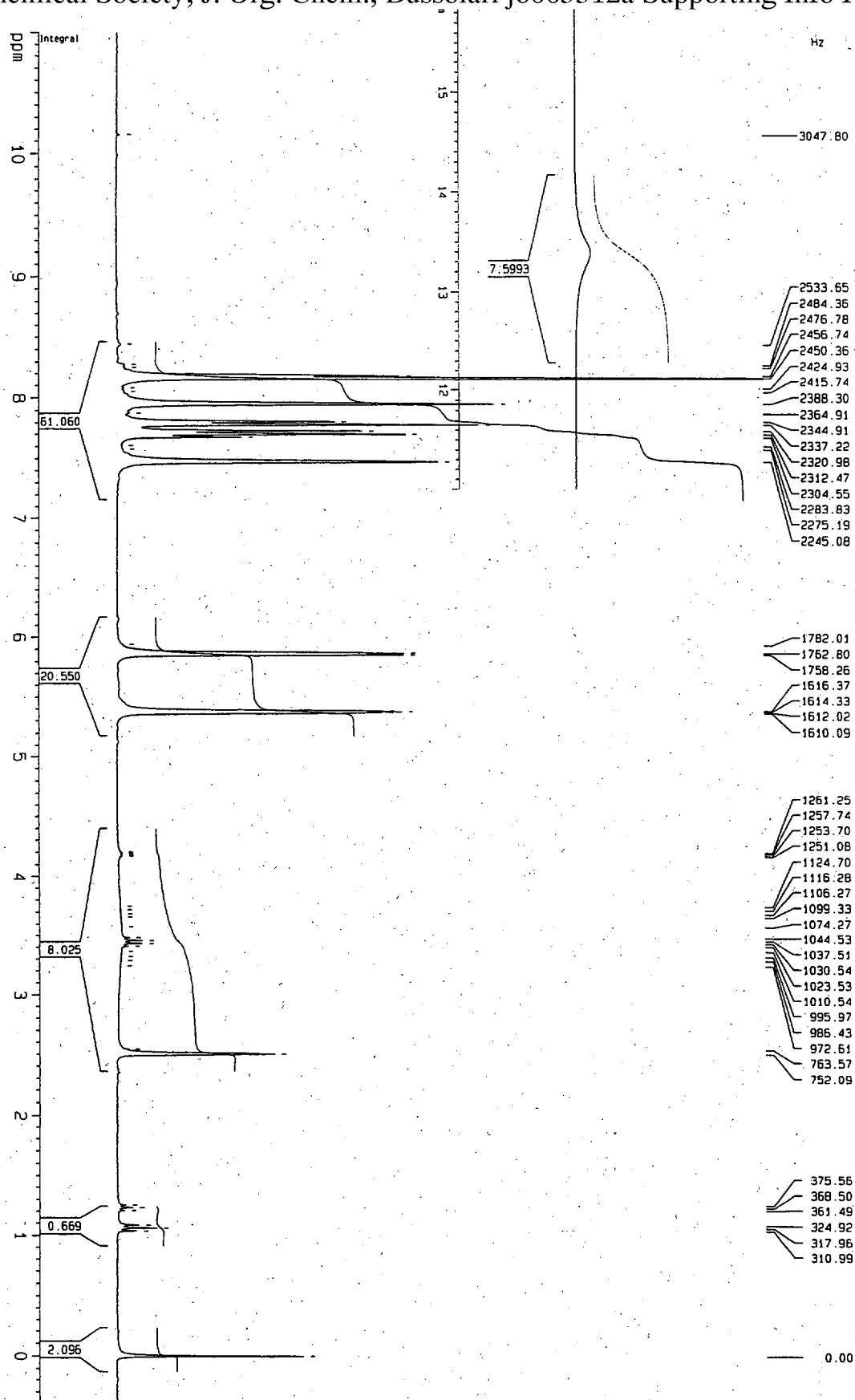
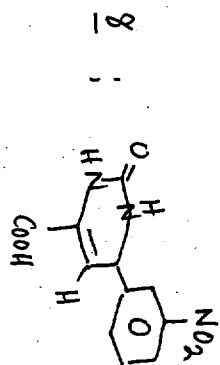
F



Current Data Parameters  
 NAME PCT30\_Apr28-2  
 EXPNO 140  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20000428  
 Time 21.47  
 INSTRUM spect  
 PROBHD 5 mm Nalind  
 PULPROG zgpg30  
 TO 700.30  
 SOLVENT DMSO  
 NS 2048  
 DS 4  
 SWH 16832.301 Hz  
 FIDRES 0.20360 Hz  
 AQ 1.7400308 sec  
 RG 16384  
 DW 26.550 usec  
 DE 6.50 usec  
 TE 300.2 K  
 D1 2.0000000 sec  
 D11 0.0500000 sec  
 D12 0.0000000 sec  
 ===== CHANNEL f1 =====  
 NUC1 13C  
 P1 12.50 usec  
 PL -3.00 dB  
 RF1 75.470000 MHz  
 ===== CHANNEL f2 =====  
 CPDPRG2 mltipls  
 IN 1H  
 NUC2 1H  
 PCPDZ 80.00 usec  
 PL2 -1.50 dB  
 RF2 21.00 MHz  
 R12 101.00 dB  
 R13 101.00 dB  
 SF02 300.131000 MHz  
 F2 - Processing parameters  
 SI 32768  
 SF 75.467567 MHz  
 WDW EM  
 SSF 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40  
 ID non plot parameters  
 CX 35.00 sec  
 CR 230.000 ppm  
 FI 17357.50 Hz  
 F2 15.000 MHz  
 F2 1133.02 Hz  
 FWHM 1.6028 Hz  
 A3 59.92 Hz  
 GCN 43.5952 Hz

S<sub>14</sub>

JCB-15638-147



Current Data Parameters  
NAME JCB-15638-147  
EXPNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20000426  
Time 15:42  
INSTRUM spect  
PROBHD 5 mm NUT-114  
PULPROG zgpg30  
TD 65536  
SOLVENT DMSO  
AQ 16  
RG 327.68  
SH 6172.83 Hz  
FIDRES 0.100300 Hz  
AQ 2.6542500 sec  
RG 408.4  
WDW 81.000 usec  
SSB 0  
GB 0  
PC 1.00

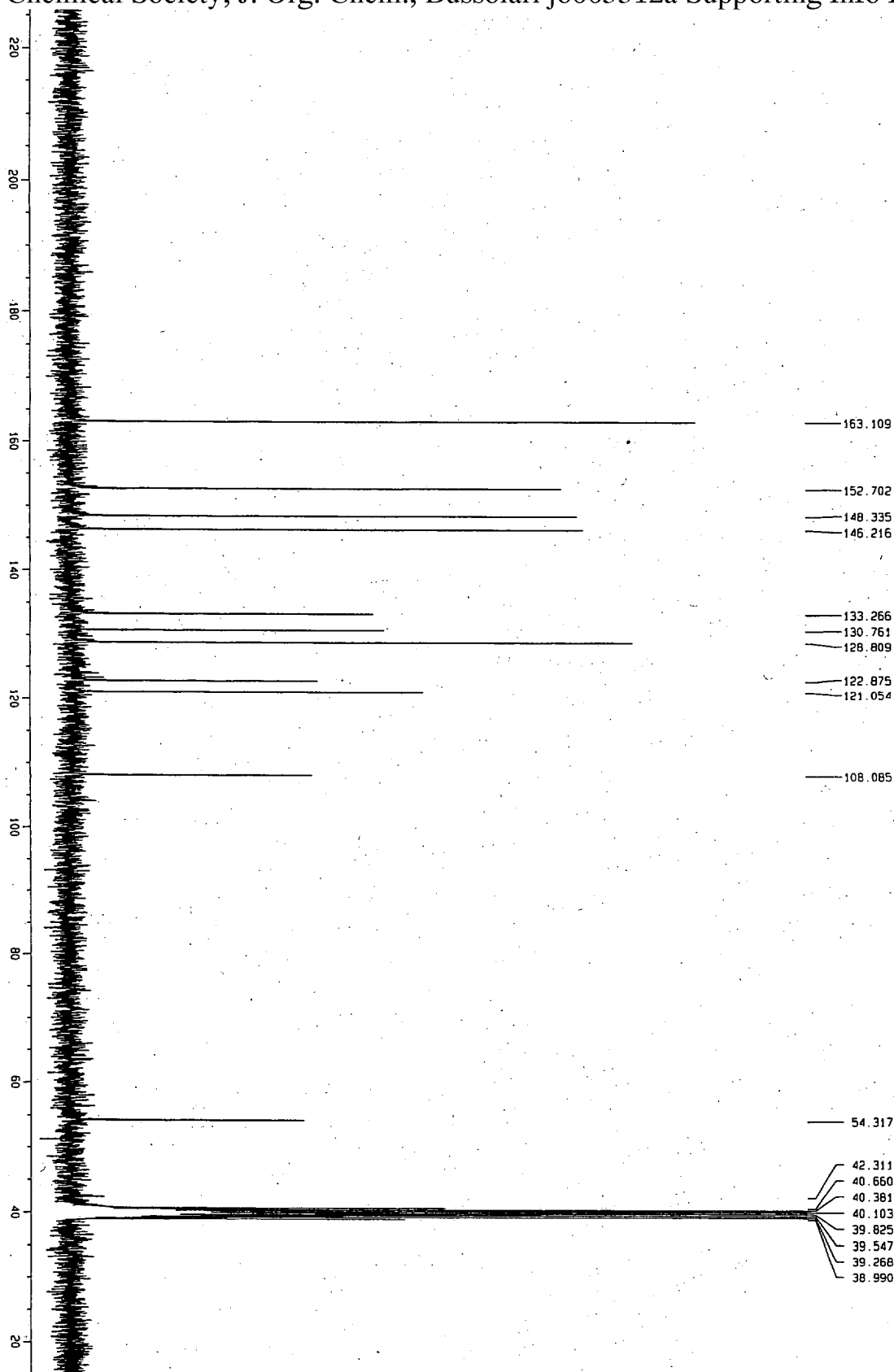
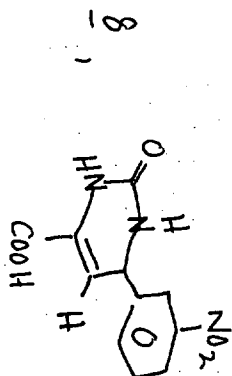
Processing parameters  
SI 320.133908 Mhz  
SF 300.133908 Mhz  
WDW 64  
GB 0  
PC 1.00

1D NMR plot parameters  
CX 25.00 cm  
F1P 11.000 ppm  
F2P 320.133908 Mhz  
F3P -120.05 Mhz  
PNUCH 0.3501 ppm/cm  
NDCM 97.7563 Mhz/cm

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 6.00 usec  
PL1 -1.50 dB  
SFO1 300.1318534 Mhz

S15

jc0-15638-147



Current Data Parameters  
 NAME PC1300\_A07-2  
 EXPNO 180  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20000409  
 Time 6.44  
 INSTRUM spect  
 PROBHD 5 mm N/11mm  
 PULPROG zgpg30  
 TD 65536  
 SFO 500  
 AQ 1.7400308 sec  
 FIDRES 0.287360 Hz  
 AQ 1.7400308 sec  
 RG 16384  
 DC 26.550 usec  
 DE 6.50 usec  
 TE 300.2 K  
 D1 3.0000000 sec  
 D11 0.0300000 sec  
 D12 0.0002000 sec

===== CHANNEL f1 =====  
 NUC1 13C  
 P1 12.50 usec  
 PL3 3.00 dB  
 SFO1 75.480250 MHz

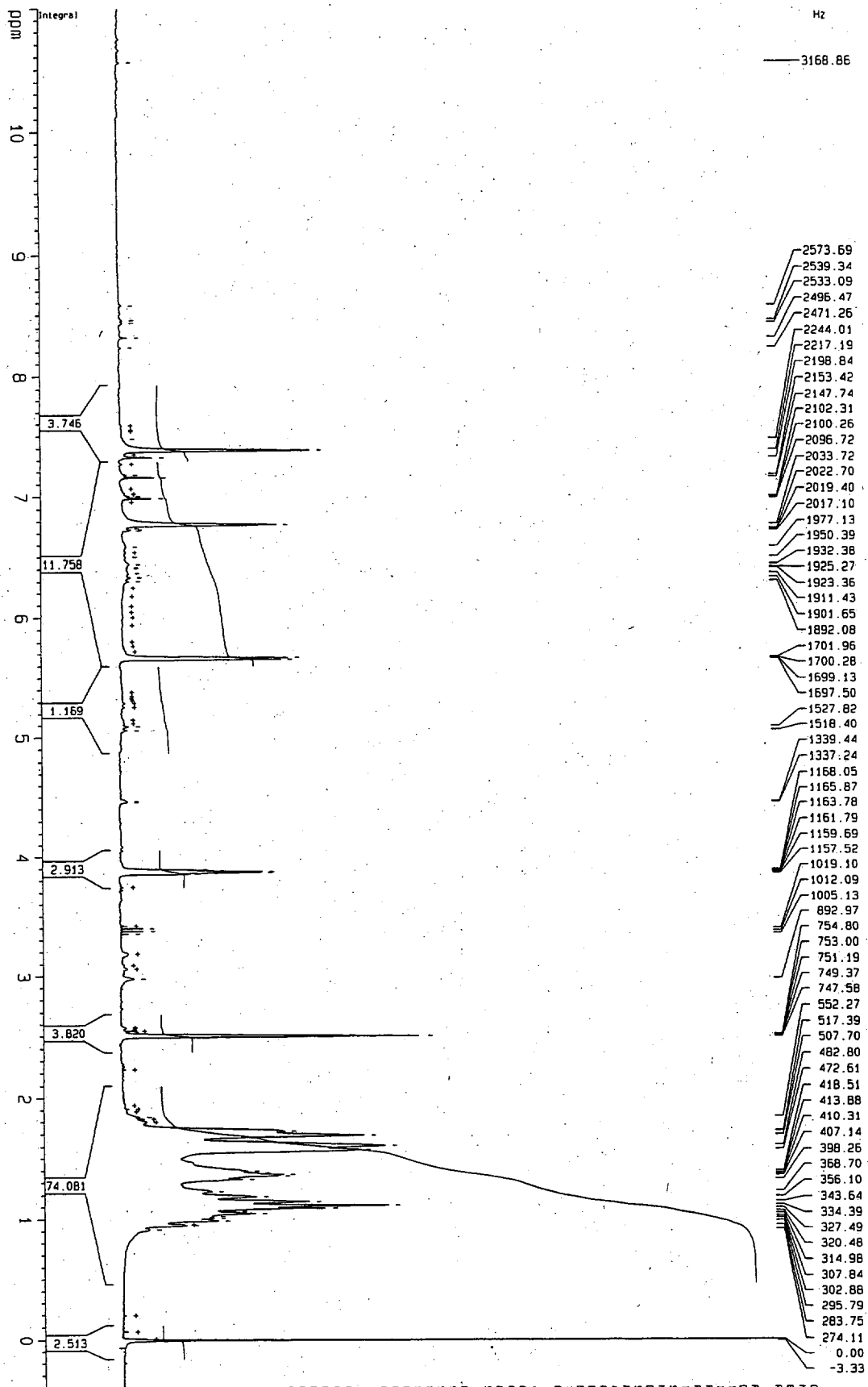
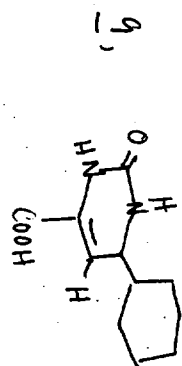
===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 P2 80.00 usec  
 PL2 -1.50 dB  
 PL12 19.00 dB  
 SFO2 300.135205 MHz

F2 - Processing parameters  
 SI 32768  
 SF 75.467767 MHz  
 KHZ  
 EN 0  
 SSF 1.00 Hz  
 LB 1.00 Hz  
 GB 1.40  
 PC 1.40

10 NMR plot parameters  
 CH 35.00 cm  
 FI 230,000 SPM  
 F1 11757.286 Hz  
 F2 115,000 SPM  
 F3 112,000 Hz  
 F4 61,480.500 Hz  
 NCH 463.50165 Hz/cm

S<sub>16</sub>

JCB-16012-30



Current Data Parameters  
NAME JCB-16012-30  
EXPNO 280  
PROCNO 1

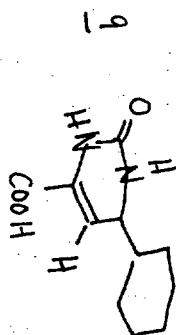
F2 - Acquisition Parameters  
Date\_ 20000426  
Time 16:03  
INSTRUM spect  
PROBHD 5 mm NUC1H  
NUC1 1H  
PULPROG zgpg30  
TD 32768  
SOLVENT DMSO  
NS 16  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.180380 Hz  
AQ 2.6542500 sec  
RG 256  
DD 81.000 usec  
DE 30.00 usec  
TE 300.2 K  
D1 1.0000000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 6.00 usec  
PL1 -1.50 dB  
SFO1 300.1318514 MHz

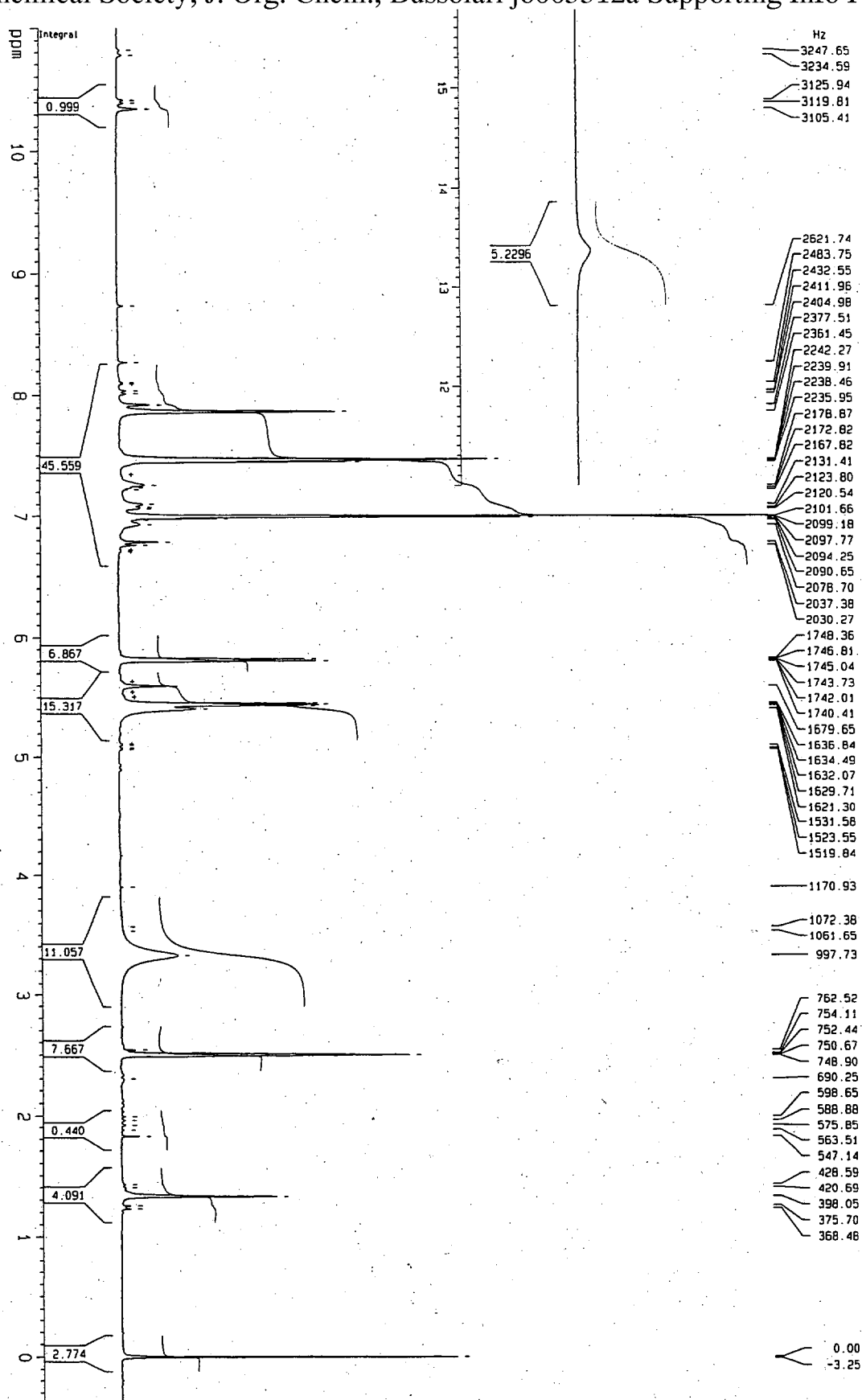
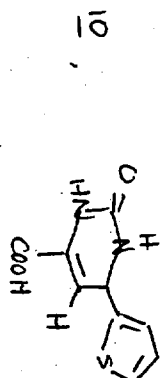
F2 - Processing parameters  
SI 32768  
SF 300.130002 MHz  
WDM 4  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

1D NMR plot parameters  
CA 25.00 usec  
CP 11.000 ppm  
F1 3301.43 Hz  
F2 -0.400 ppm  
F3 -120.05 Hz  
PROMCH 0.32071 ppm/c  
H1CH 97.75653 Hz/cm

S17

[illegible]

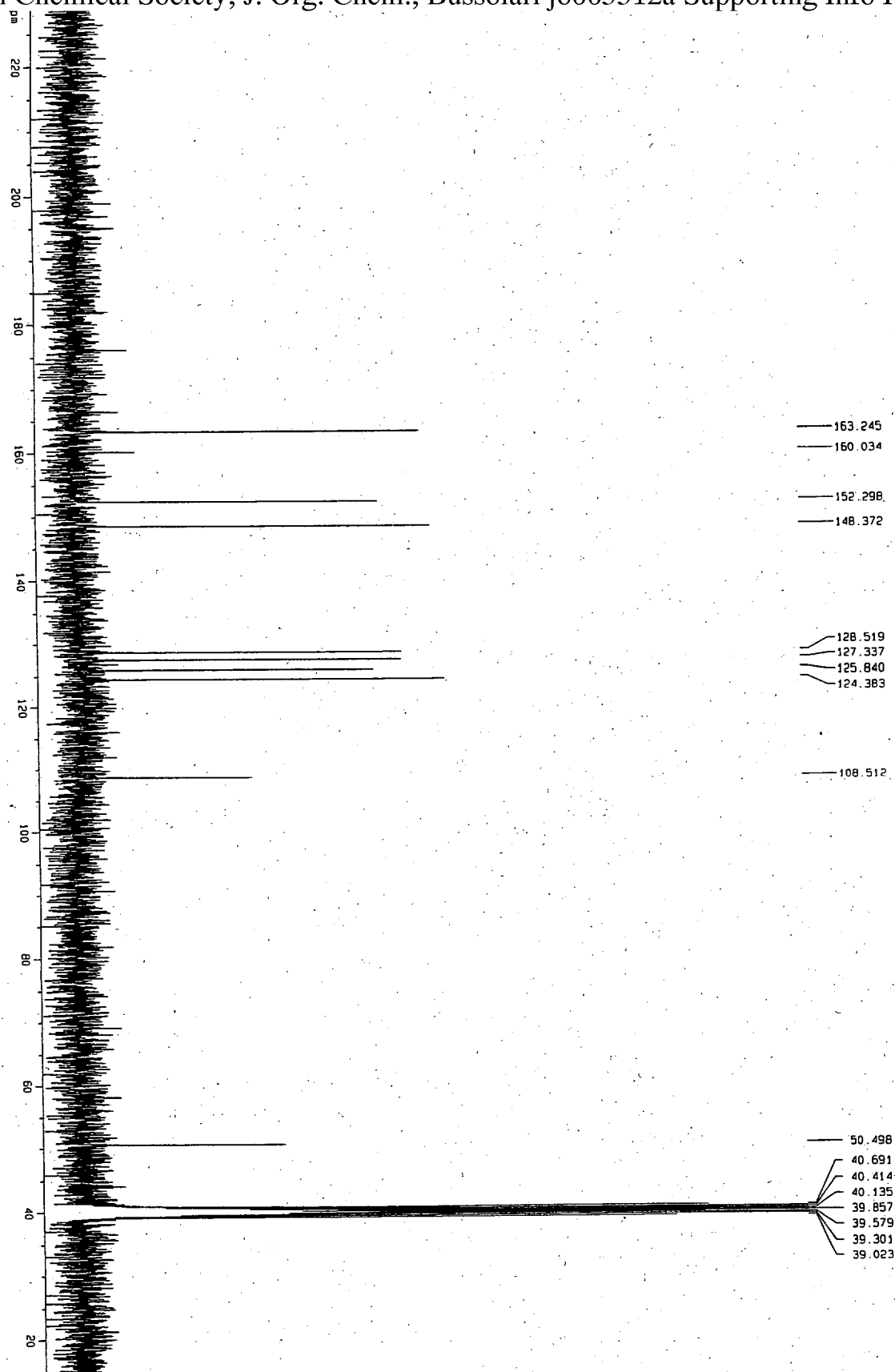
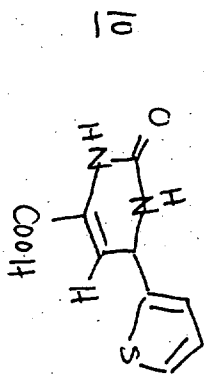
JCB-16012-14



Current Data Parameters  
NAME: JCB-16012-14  
EXPNO: 270  
PROCNO: 1  
F2 - Acquisition Parameters  
Date\_: 20000426  
Time: 15.56  
INSTRUM: spect  
PROBHD: 5 mm Nal 125  
PULPROG: zgpg30  
ID: 32788  
SOLVENT: DMSO  
NS: 16  
DS: 2  
SWH: 6172.836 Hz  
FIDRES: 0.188300 Hz  
AQ: 2.654250 sec  
RG: 640.1  
DE: 61.000 uSAC  
TE: 300.0 K  
D1: 1.0000000 sec  
===== CHANNEL f1 =====  
NUC1: 1H  
P1: 6.00 uSAC  
PL1: -1.50 dB  
RF1: 300.131834 MHz  
SFO1: 300.131834 MHz  
F2 - Processing parameters  
SI: 32788  
SF: 300.130012 MHz  
WDW: EM  
SSB: 0  
LB: 0.30 Hz  
GB: 0  
PC: 1.00  
ID non plot parameters  
SI: 32788  
SF: 300.130012 MHz  
WDW: EM  
SSB: 0  
LB: 0.30 Hz  
GB: 0  
PC: 1.00  
F1P: 11.000 ppm  
F1: 3301.43 Hz  
F2P: -0.400 ppm  
F2: -120.05 Hz  
FREQH: 0.32571 ppm/c  
N1CH: 97.75663 Hz/c

S<sub>19</sub>

jc0-16012-14



Current Data Parameters  
NAME: FCD00\_Apr28-2  
EXPNO: 160  
PROCNO: 1

F2 - Acquisition Parameters  
Date\_: 20000229  
Time: 2:16  
INSTRUM: spect  
PROBHD: 5 mm H-130  
PULPROG: zgpg30  
TD: 65536  
SOLVENT: DMSO  
NS: 2048  
DS: 4  
SWH: 18832.383 Hz  
FIDRES: 0.128328 Hz  
AQ: 1.140388 sec  
RG: 1.6384  
DE: 26.550 usec  
TE: 6.50 usec  
F2: 300.0 K  
O1: 2.00000000 sec  
O11: 0.03000000 sec  
O12: 0.00020000 sec

===== CHANNEL f1 =====  
NUC1: 13C  
P1: 12.50 usec  
PL1: -3.00 dB  
SFO1: 75.4763000 MHz

===== CHANNEL f2 =====  
CPDPRG2: waltz16  
NUC2: 1H  
PCPD2: 80.00 usec  
PL2: -1.50 dB  
PL12: 21.00 dB  
PL13: 150.00 dB  
SFO2: 300.1312005 MHz

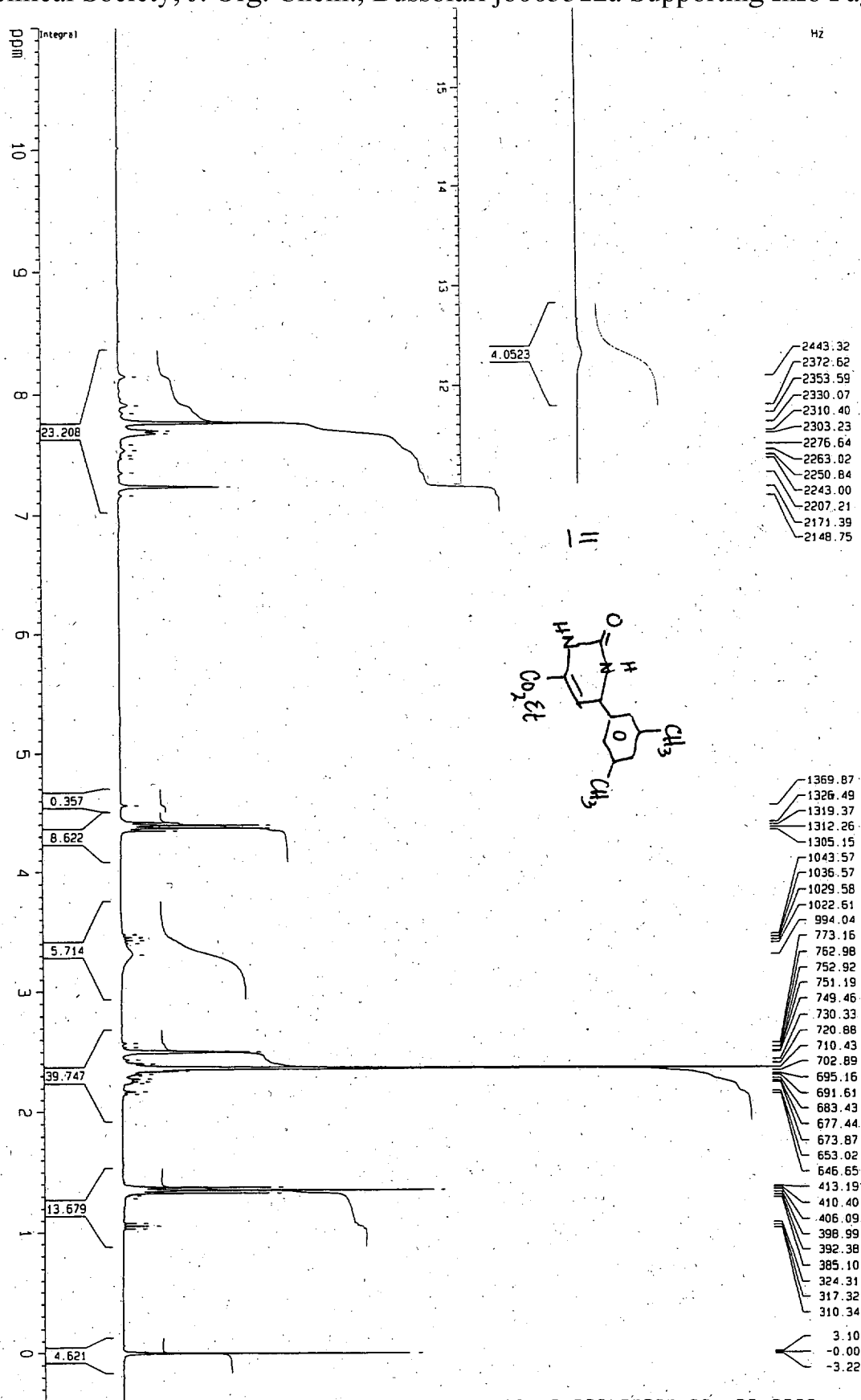
F2 - Processing parameters  
SI: 32768  
SF: 75.467267 MHz  
WDW: EM  
SSB: 0  
LB: 1.00 Hz  
GB: 0  
PC: 1.40

1D NMR data parameters  
SI: 32768  
SF: 300.131200 MHz  
WDW: EM  
SSB: 0  
LB: 1.00 Hz  
GB: 0  
PC: 1.40

1D NMR data parameters  
SI: 32768  
SF: 300.131200 MHz  
WDW: EM  
SSB: 0  
LB: 1.00 Hz  
GB: 0  
PC: 1.40

S<sub>20</sub>

JCB-15638-134



Current Data Parameters  
NAME PCC300-4076-2  
EXPNO 150  
PROCNO 1

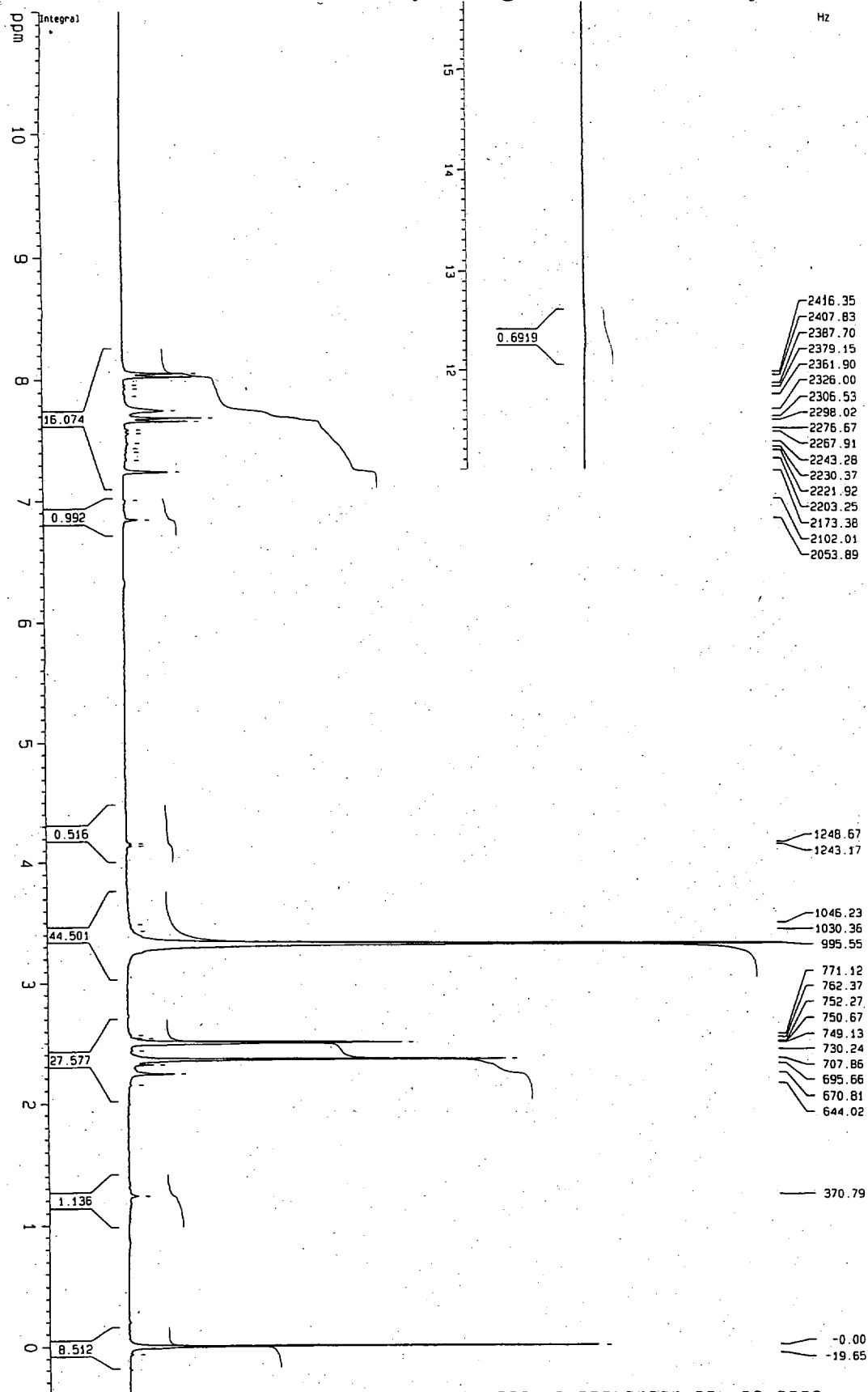
F2 - Acquisition Parameters  
Date\_ 20001312  
Time 13.22  
INSTRUM spect  
PROBHD 5 mm NUT/1H  
PULPROG zgpg30  
TD 65536  
SOLVENT DMSO  
NS 16  
DS 2  
SWH 6172.038 Hz  
FIDRES 0.645000 sec  
AQ 2.654500 sec  
RG 512.7  
DE 61.000 usec  
TE 300.0 K  
D1 1.0000000 sec

===== CHANNEL f1 =====  
NUC1 1H  
P1 6.00 usec  
PL1 -1.50 dB  
SFO1 300.13624 MHz

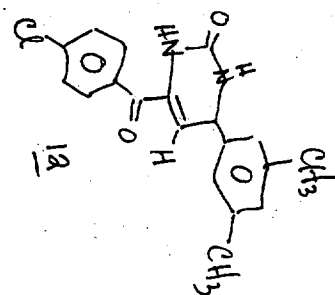
F2 - Processing parameters  
SI 32768  
SF 300.130007 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

10 MHz plot parameters  
CX 25.00 cm  
FIP 11.000 ppm  
FI 3301.43 Hz  
FQ -0.400 ppm  
PC 0.3201 ppm/cm  
MCH 97.7565 Hz/cm

S<sub>21</sub>



JCB-15638-144-2



Current Data Parameters  
Date: 20000426  
Time: 16:18  
INSTRUM: spect  
PROBHD: 5 mm NUT/1H  
PULPROG: zgpg30  
ID: 3200  
SOLVENT: DMSO-d6  
DS: 2  
SWH: 6172.838 Hz  
FIDRES: 0.188380 Hz  
AQ: 2.654290 sec  
RG: 1024  
DE: 81.000 uS  
TE: 300.0 K  
D1: 1.0000000 sec  
===== CHANNEL f1 =====  
NUC1: 1H  
P1: 5.00 uS  
PL1: -1.50 dB  
SFO1: 300.1310534 MHz  
F2 - Processing parameters  
SI: 300.130013 MHz  
SF: 300.130013 MHz  
WDW: EM  
SSB: 0  
LB: 0.30 Hz  
GB: 0  
PC: 1.00  
===== CHANNEL f2 =====  
Date: 20000426  
Time: 16:18  
INSTRUM: spect  
PROBHD: 5 mm NUT/1H  
PULPROG: zgpg30  
ID: 3200  
SOLVENT: DMSO-d6  
DS: 2  
SWH: 6172.838 Hz  
FIDRES: 0.188380 Hz  
AQ: 2.654290 sec  
RG: 1024  
DE: 81.000 uS  
TE: 300.0 K  
D1: 1.0000000 sec