15 (R = Me)

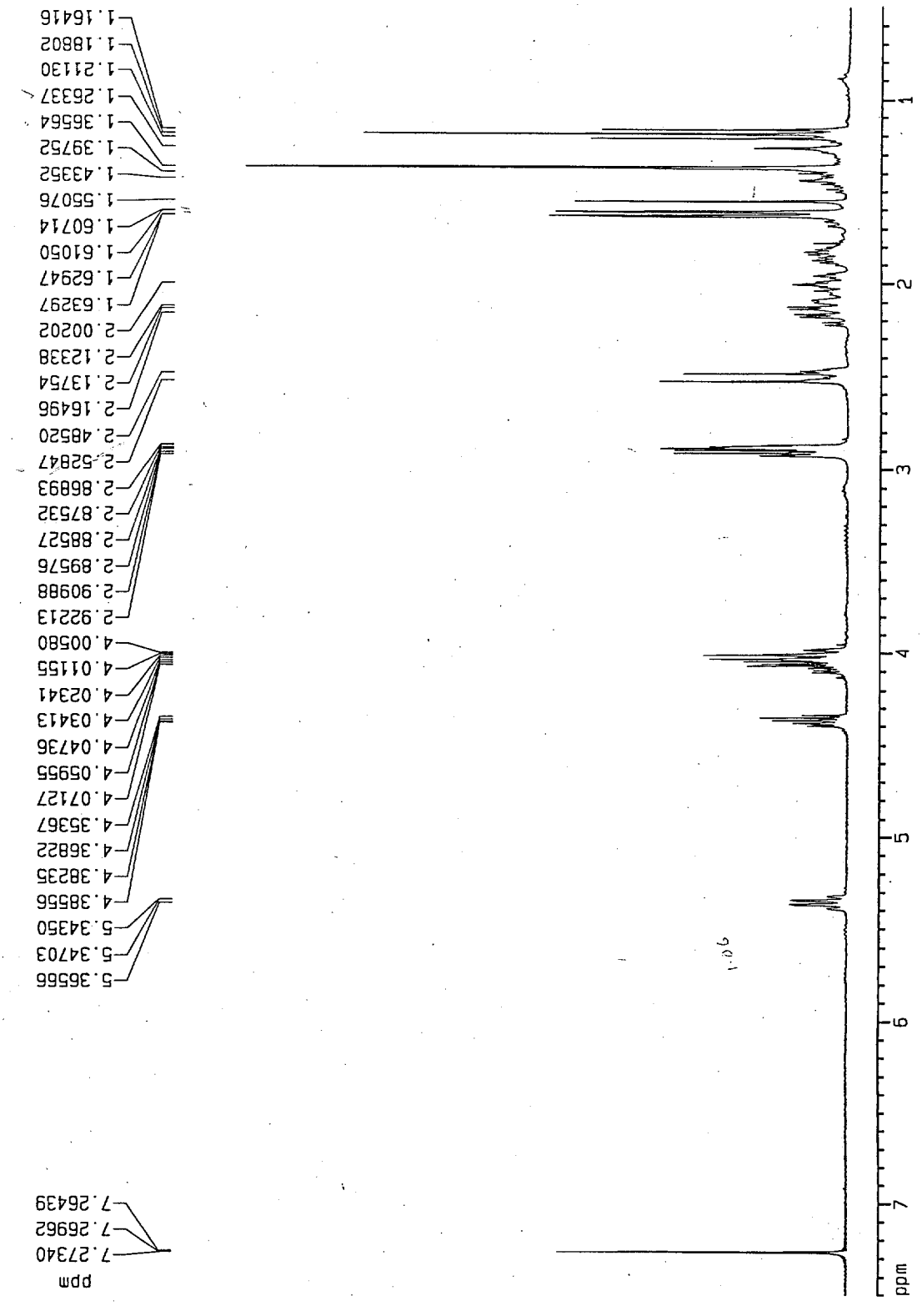
Dr.Veejendra K Yadav Sample: j25.hm
Solvent: CDCl3

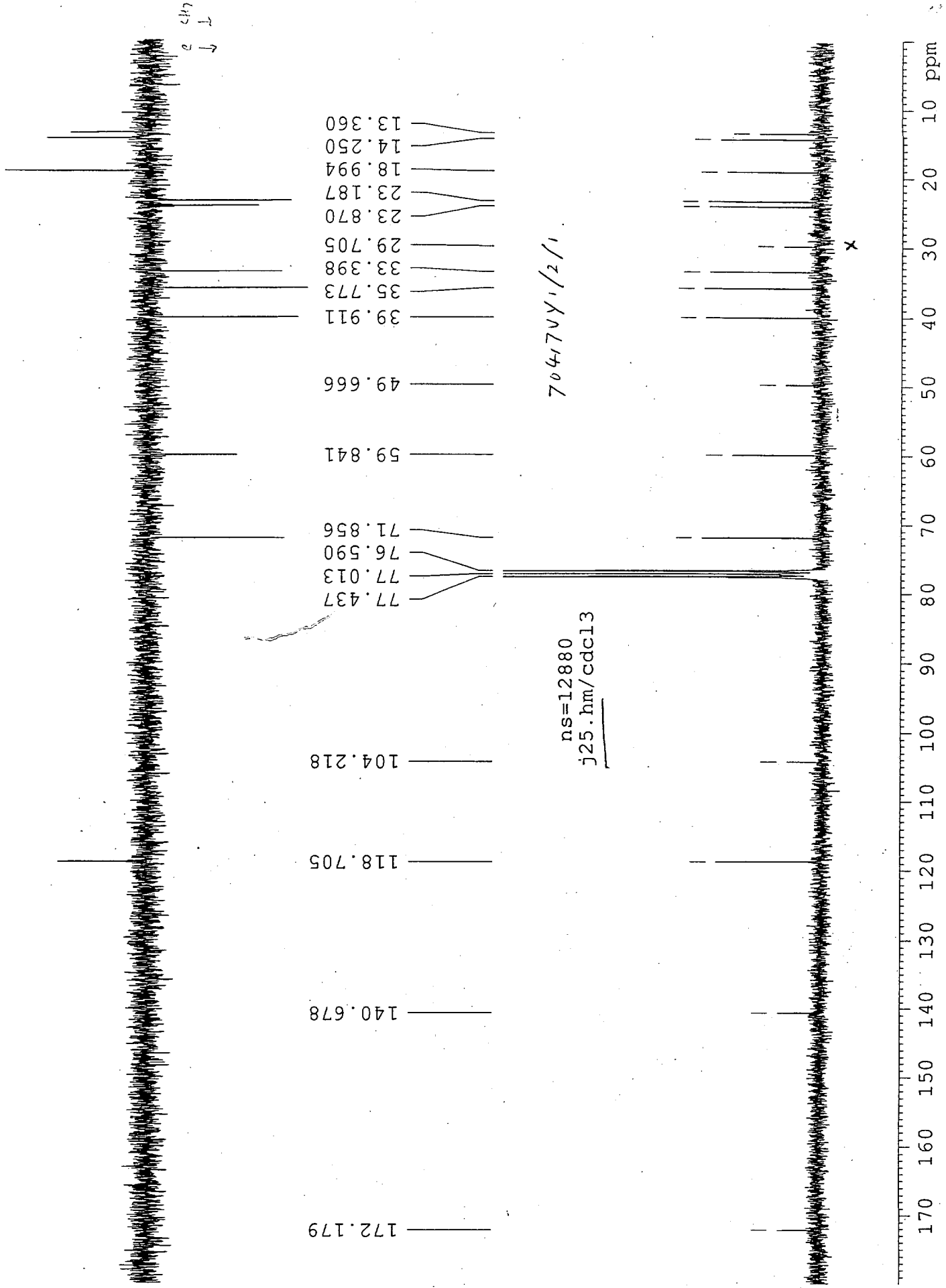
Current Data Parameters	
USER	qiao
NAME	61106vy1
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters	
Date	500000
Time	19.58
PULPROG	zg30
SOLVENT	CDCl3
AQ	1.9497701 sec
FIDRES	0.256472 Hz
DW	500000.0 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	0.5000000 sec
P1	5.8 usec
DE	148.7 usec
SFO1	300.1383000 MHz
NUCLEUS	1H

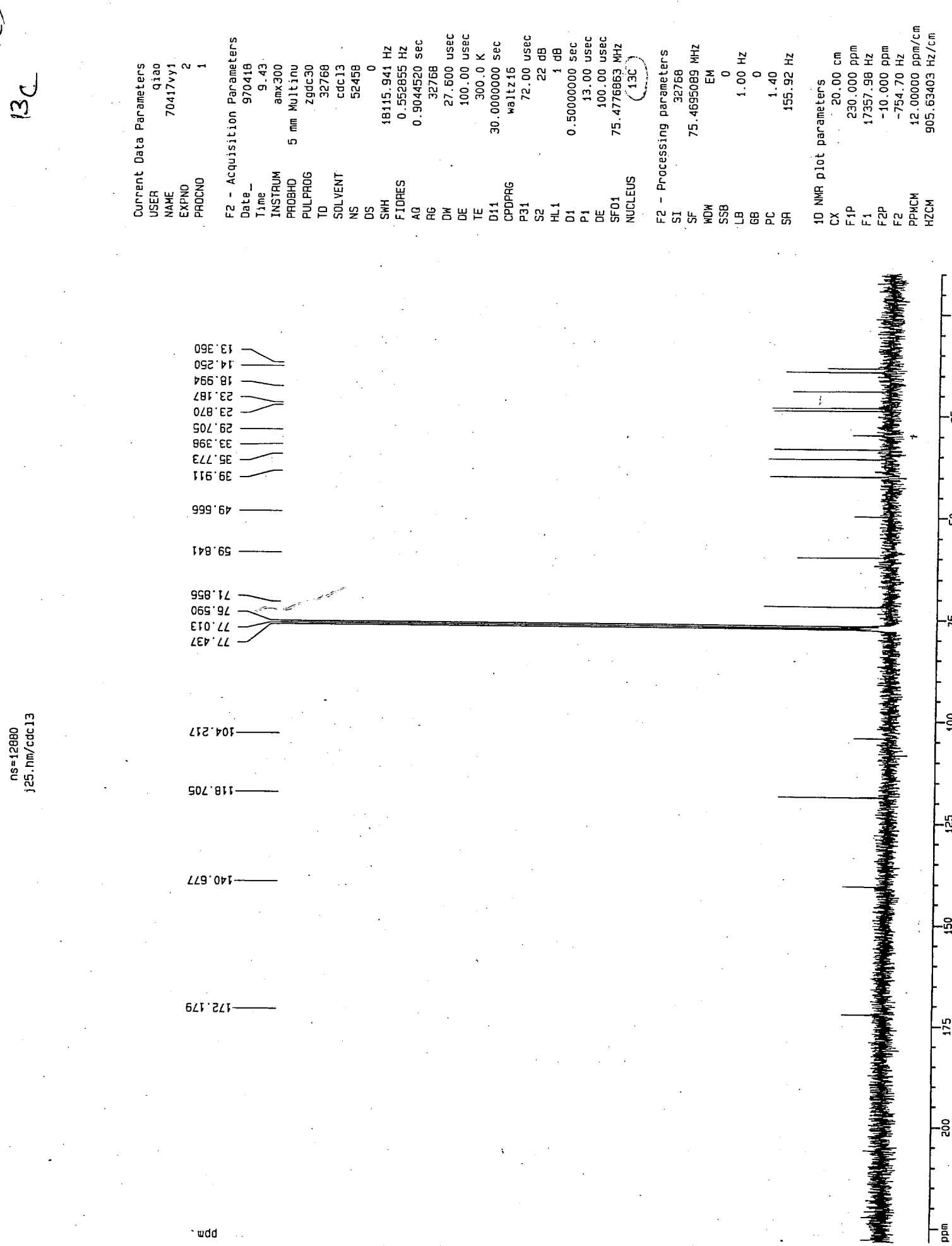
F2 - Processing parameters	
SI	16384
SF	300.1370067 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
BF1	300.1365000 MHz
SR	5066779296.00 Hz

1D NMR plot parameters	
CX	20.00 cm
F1P	7.500 ppm
F1	2251.03 Hz
F2P	0.500 ppm
F2	150.07 Hz
PPMCM	0.35000 ppm/cm
HZCM	105.04795 Hz/cm

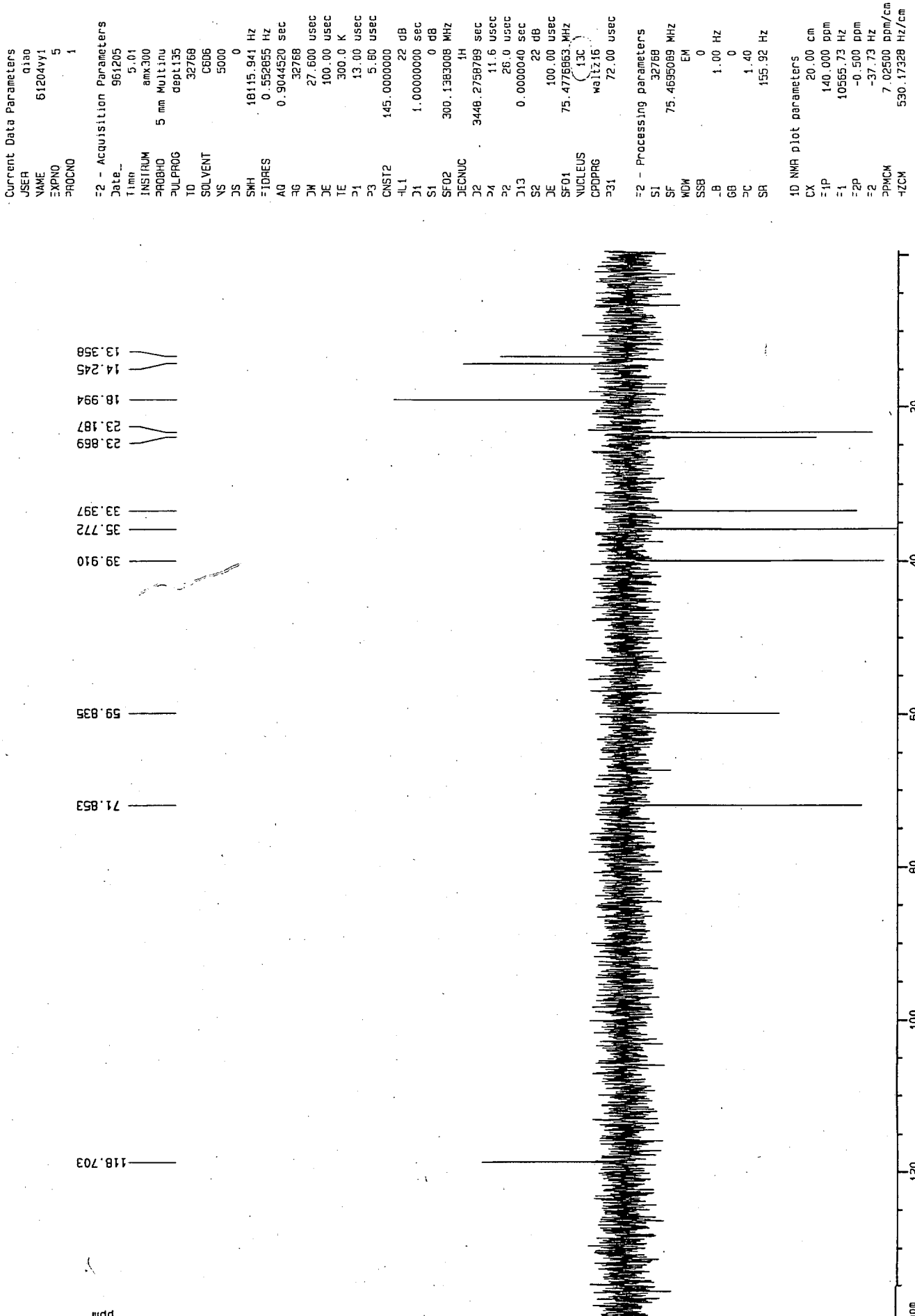




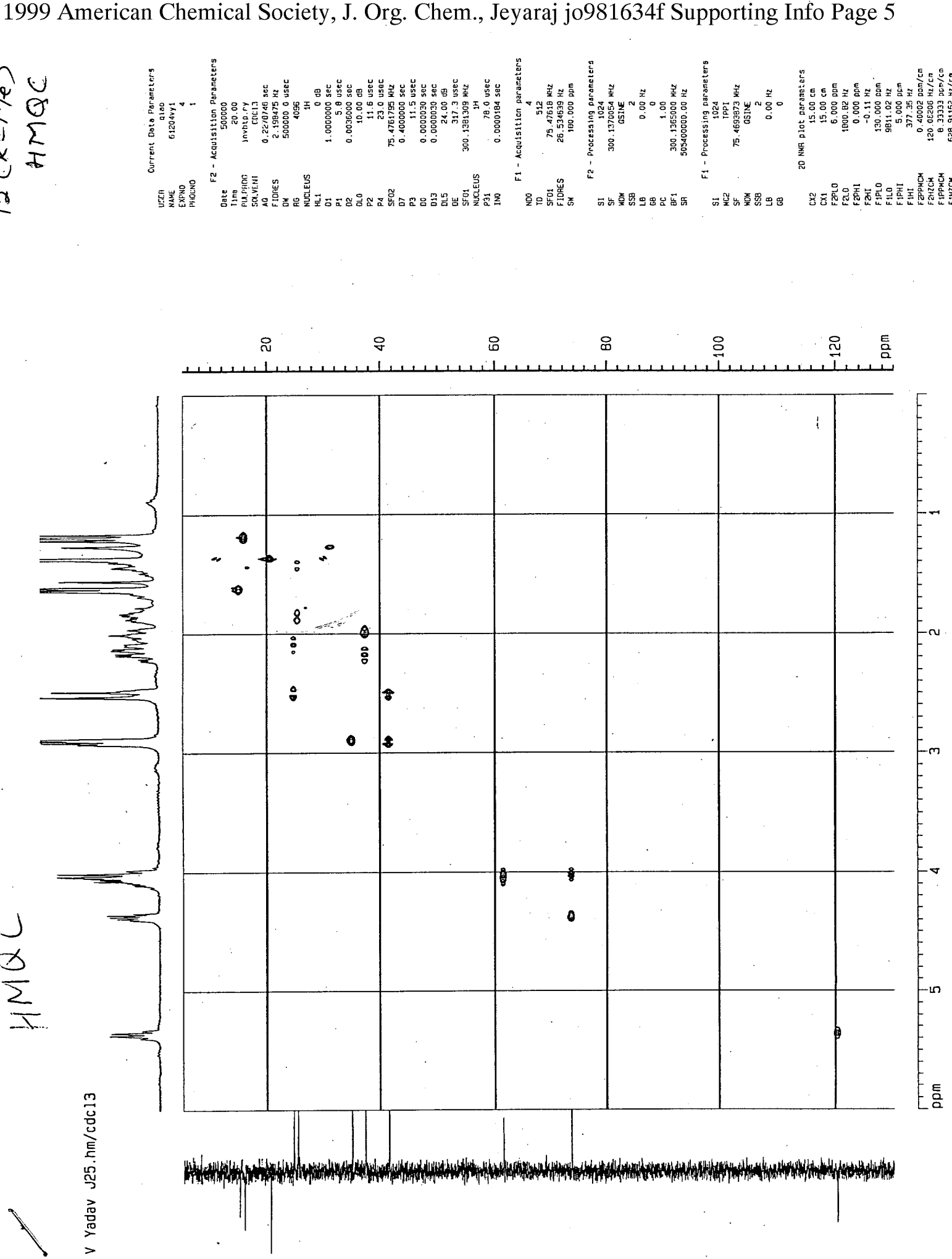
15 (R=Me)
13C



15 (R = Me)
13C

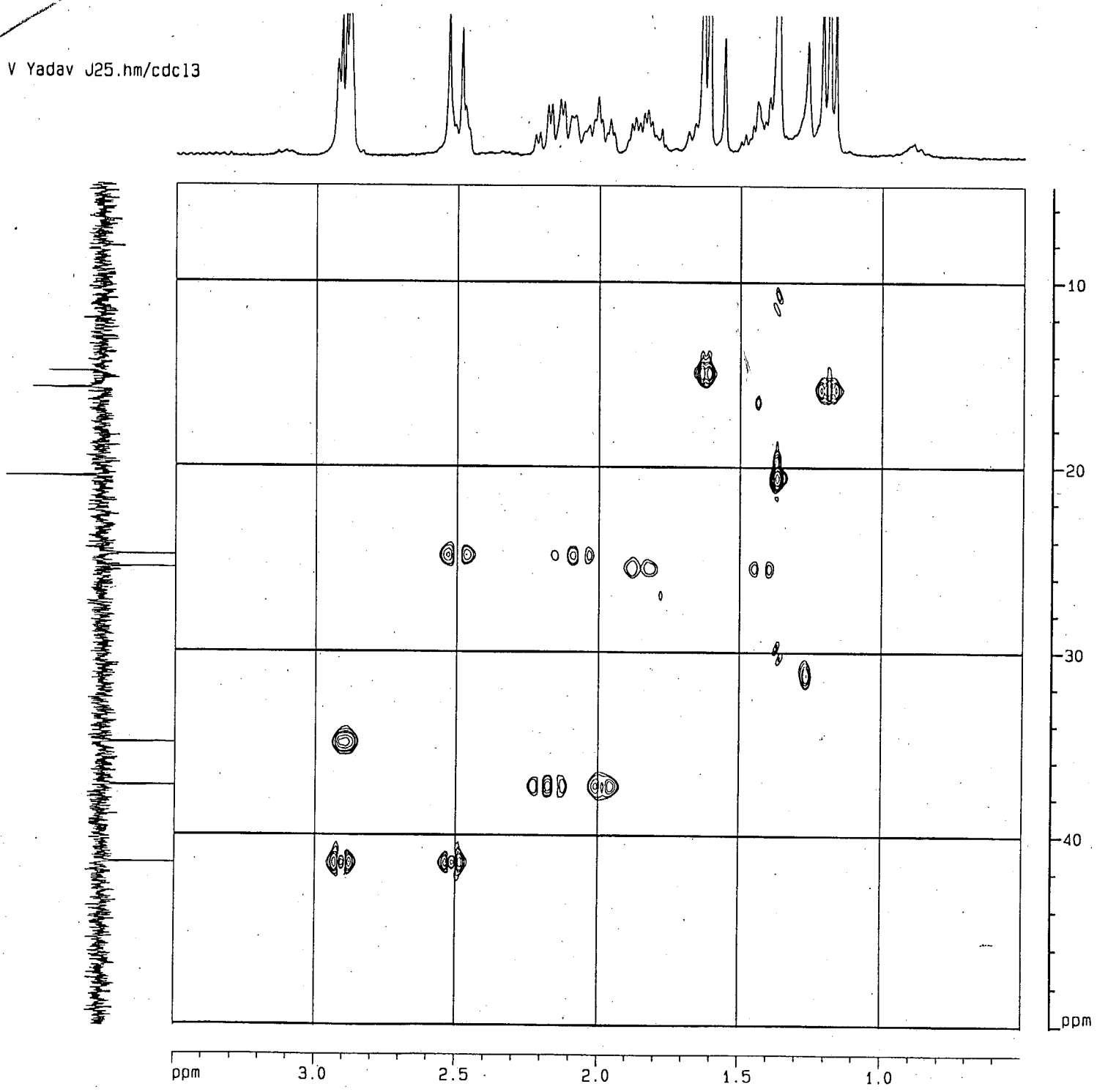


15 (R=Me)
HMQC



15 (R=Me)
HMQC

V Yadav J25.hm/cdc13



Current Data Parameters

USER	qiao
NAME	61204vy1
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters

Date	500000
Time	20.00
PULPROG	invbtp.ry
SOLVENT	CDCl3
AQ	0.2278746 sec
FIDRES	2.198475 Hz
DW	500000.0 usec
RG	4096
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
P1	5.8 usec
D2	0.0036000 sec
DL0	10.00 dB
P2	11.6 usec
P4	23.0 usec
SFO2	75.4761795 MHz
D7	0.4000000 sec
P3	11.5 usec
D0	0.0000030 sec
D13	0.0000030 sec
DL5	24.00 dB
DE	317.3 usec
SFO1	300.1381309 MHz
NUCLEUS	1H
P31	78.0 usec
IN0	0.0000184 sec

F1 - Acquisition parameters

ND0	4
TD	512
SFO1	75.4761B MHz
FIDRES	26.534639 Hz
SW	180.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370054 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
BF1	300.1365000 MHz
SR	505400000.00 Hz

F1 - Processing parameters

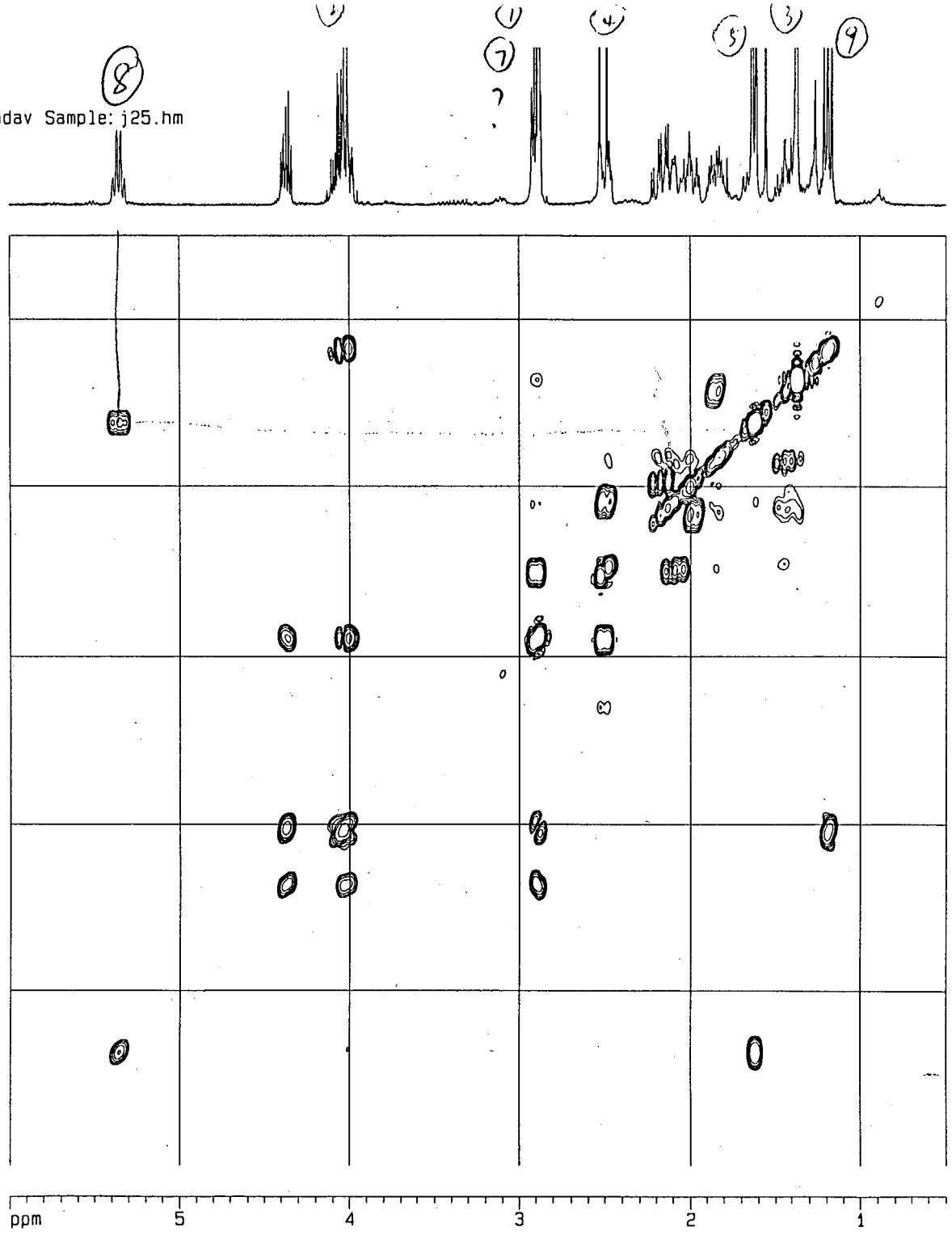
SI	1024
MC2	TPPI
SF	75.4693873 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PL0	3.501 ppm
F2L0	1050.76 Hz
F2PHI	0.500 ppm
F2HI	150.07 Hz
F1PL0	50.094 ppm
F1L0	3780.56 Hz
F1PHI	4.738 ppm
F1HI	357.59 Hz
F2PPMCM	0.20008 ppm/cm
F2HZCM	60.04623 Hz/cm
F1PPMCM	3.02371 ppm/cm
F1HZCM	228.19799 Hz/cm

15(R=Me)
COSY

Dr.Veejendra K Yadav Sample: j25.hm
Solvent: CDCl3



Current Data Parameters

USER	qiao
NAME	61106vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	11.40
PULPROG	cosy45
SOLVENT	CDCl3
AQ	0.1222606 sec
FIDRES	4.104928 Hz
DW	237.9 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
P1	5.8 usec
D0	0.0000030 sec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	512
NS	64
DS	2
IN0	0.0004760 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1382 MHz
FIDRES	16.413816 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506.70 Hz

F1 - Processing parameters

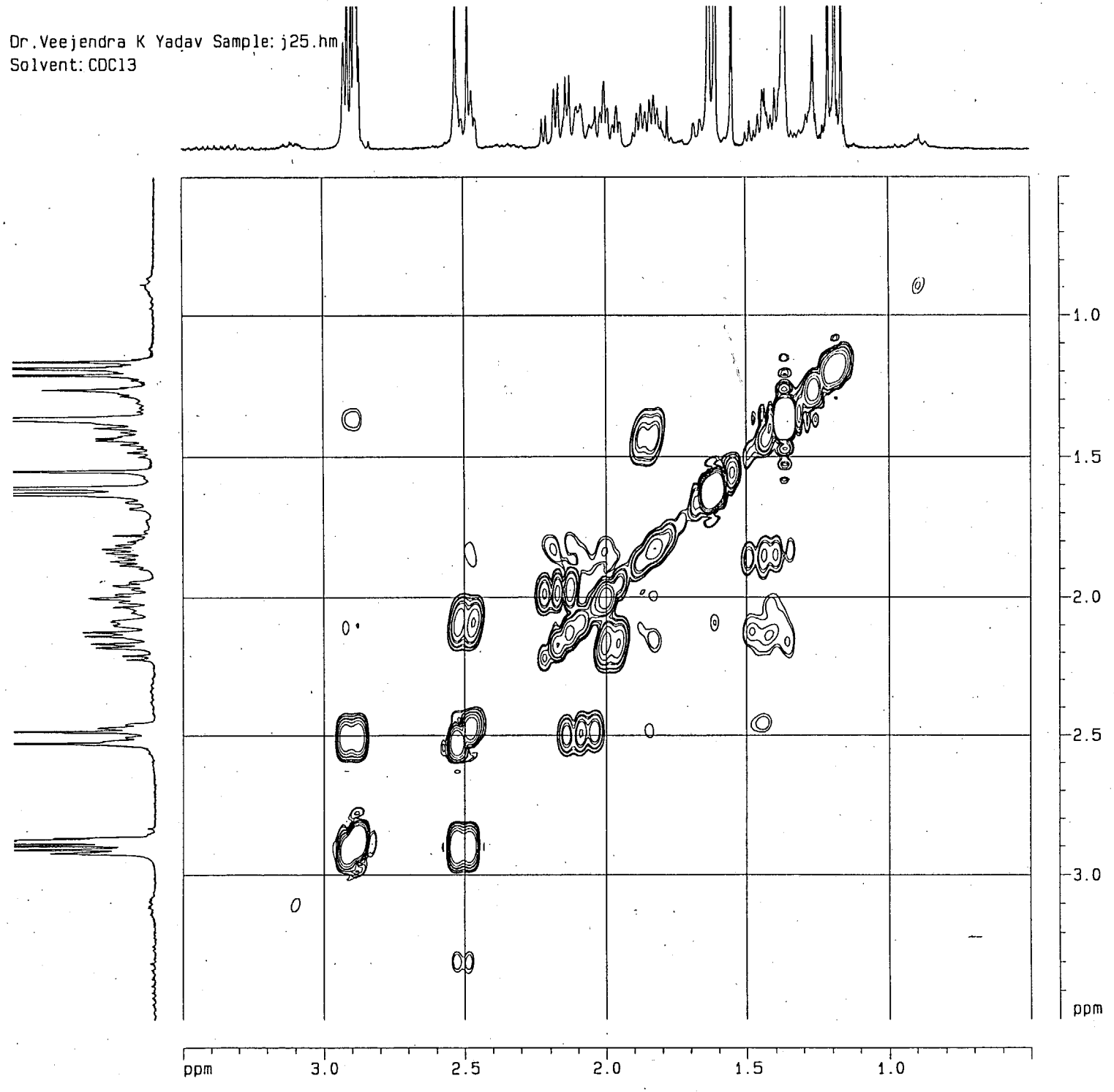
SI	512
MC2	QF
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	6.000 ppm
F2LO	1800.82 Hz
F2PHI	0.499 ppm
F2HI	149.64 Hz
F1PLO	6.000 ppm
F1LO	1800.82 Hz
F1PHI	0.500 ppm
F1HI	150.02 Hz
F2PPMCM	0.36676 ppm/cm
F2HZCM	110.07892 Hz/cm
F1PPMCM	0.36658 ppm/cm
F1HZCM	110.05374 Hz/cm

15CR=R
COSY

Dr.Veejendra K Yadav Sample: j25.hm
Solvent: CDCl3



Current Data Parameters

USER	qiao
NAME	61106vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	11.40
PULPROG	cosy45
SOLVENT	CDCl3
AQ	0.1222006 sec
FIORES	4.104920 Hz
DW	237.9 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
P1	5.8 usec
D0	0.0000030 sec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	512
NS	64
DS	2
IN0	0.0004760 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1382 MHz
FIORES	16.413816 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506.70 Hz

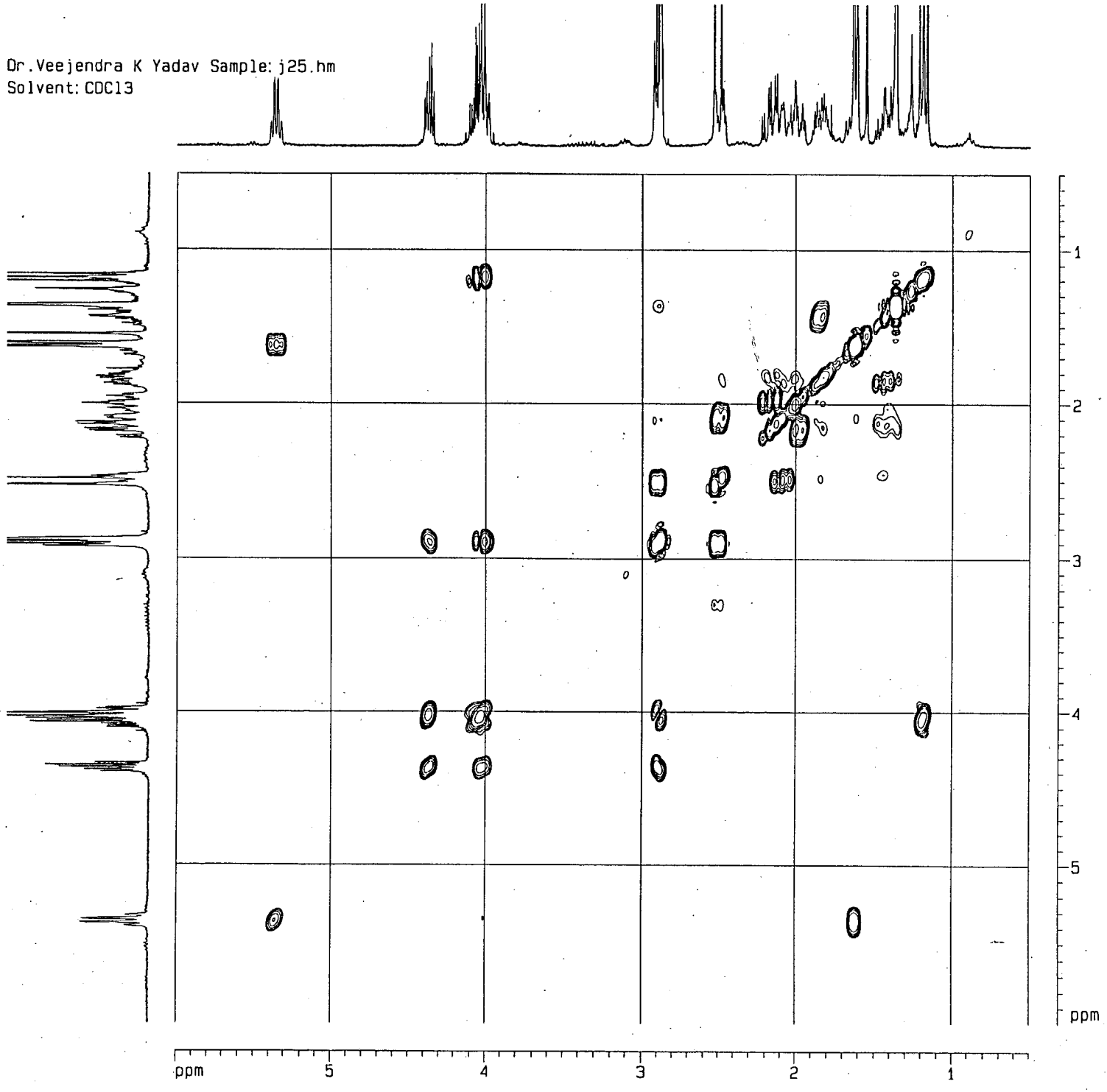
F1 - Processing parameters

SI	512
MC2	QF
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.500 ppm
F2LO	1050.48 Hz
F2PHI	0.500 ppm
F2HI	150.07 Hz
F1PLO	3.500 ppm
F1LO	1050.48 Hz
F1PHI	0.500 ppm
F1HI	150.07 Hz
F2PPMCM	0.20000 ppm/cm
F2HZCM	60.02740 Hz/cm
F1PPMCM	0.20000 ppm/cm
F1HZCM	60.02740 Hz/cm

15 (Route)
COSY



Current Data Parameters

USER	qiao
NAME	61106vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	11.40
PULPROG	cosy45
SOLVENT	CDCl3
AQ	0.1222806 sec
FIDRES	4.104928 Hz
DW	237.9 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
P1	5.8 usec
D0	0.0000030 sec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	512
NS	64
DS	2
IN0	0.0004760 sec

F1 - Acquisition parameters

ND0	1
TD	128
SFO1	300.1382 MHz
FIDRES	16.413816 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506.70 Hz

F1 - Processing parameters

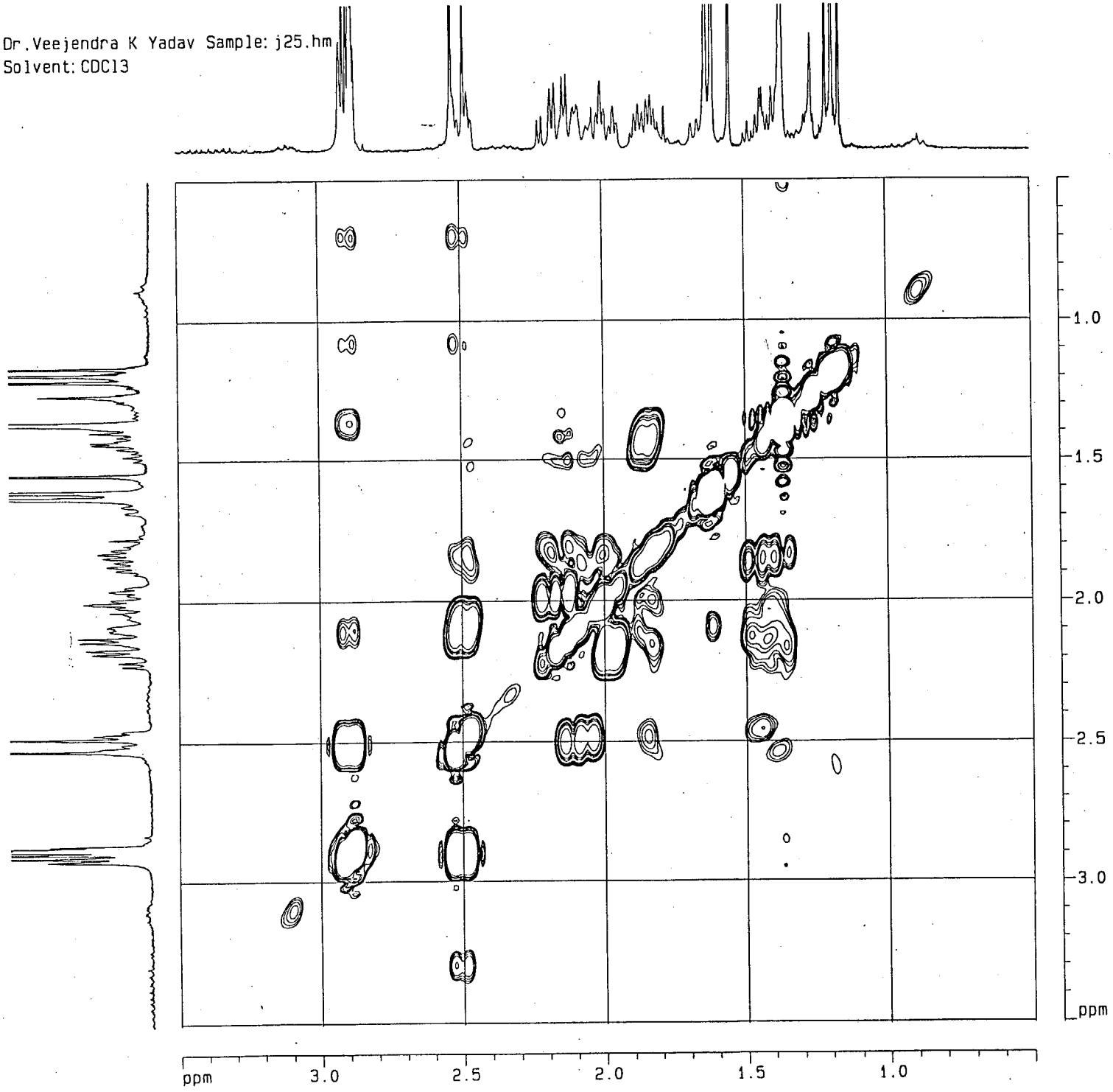
SI	512
MC2	QF
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	6.000 ppm
F2LO	1800.82 Hz
F2PHI	0.499 ppm
F2HI	149.64 Hz
F1PLO	6.000 ppm
F1LO	1800.82 Hz
F1PHI	0.500 ppm
F1HI	150.02 Hz
F2PPMCM	0.36676 ppm/cm
F2HZCM	110.07892 Hz/cm
F1PPMCM	0.36668 ppm/cm
F1HZCM	110.05374 Hz/cm

15(R=Me)
COSY

Dr.Veejendra K Yadav Sample: j25.hm
Solvent: CDCl3



Current Data Parameters

USER	qiao
NAME	61106vyi
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	11.40
PULPROG	cosy45
SOLVENT	CDCl3
AQ	0.1222806 sec
FIDRES	4.104928 Hz
DW	237.9 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
P1	5.8 usec
D0	0.0000030 sec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	512
NS	64
DS	2
IN0	0.0004760 sec

F1 - Acquisition parameters

ND0	1
TD	128
SFO1	300.1382 MHz
FIDRES	16.413816 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506.70 Hz

F1 - Processing parameters

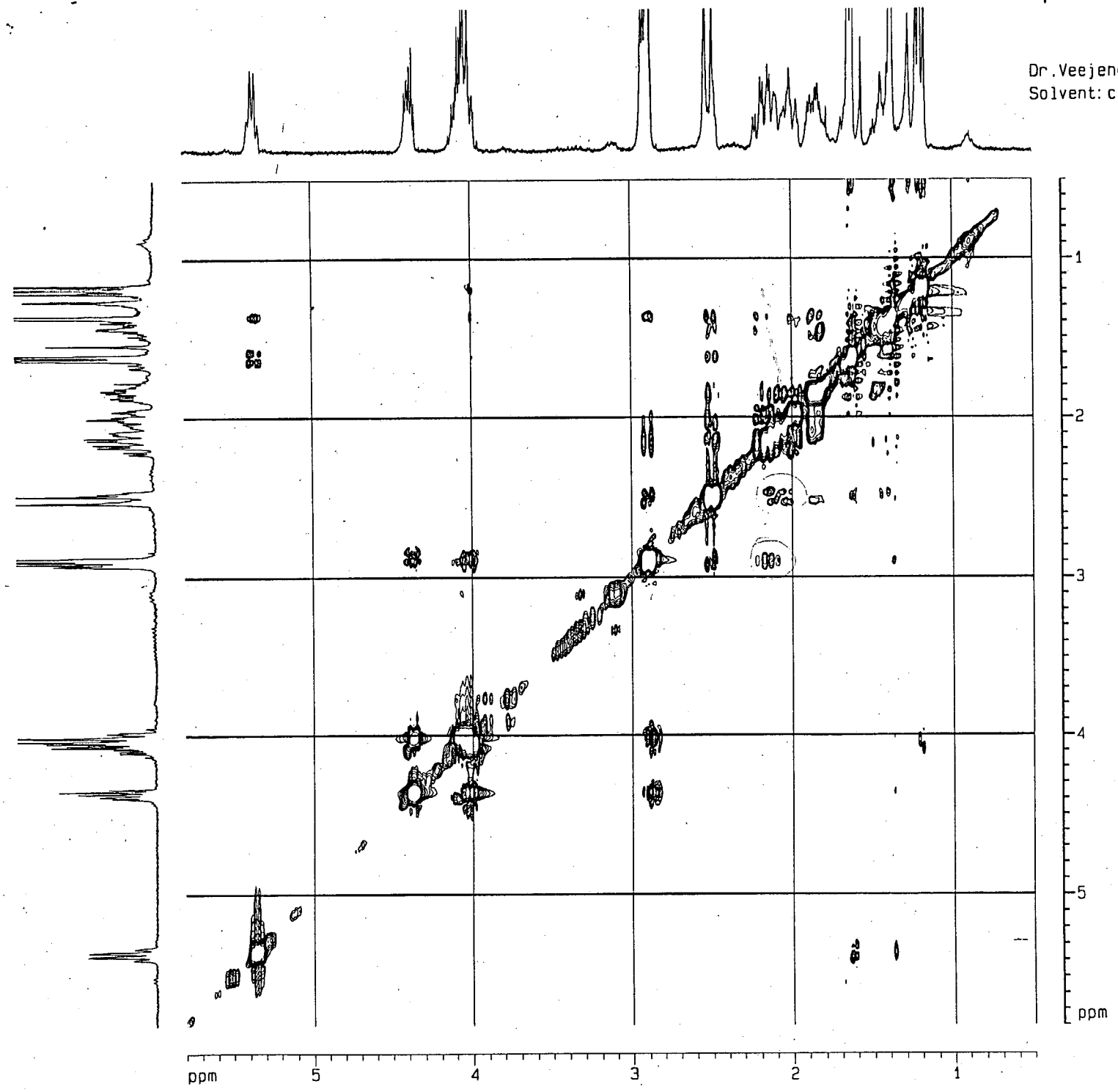
SI	512
MC2	QF
SF	300.1370067 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.501 ppm
F2LO	1050.67 Hz
F2PHI	0.499 ppm
F2HI	149.64 Hz
F1PLO	3.508 ppm
F1LO	1052.78 Hz
F1PHI	0.500 ppm
F1HI	150.02 Hz
F2PPMCM	0.20014 ppm/cm
F2HZCM	60.06879 Hz/cm
F1PPMCM	0.20052 ppm/cm
F1HZCM	60.18339 Hz/cm

10224

15CR=Me)
ROESY



Dr.Veejendra K Yadav Sample: j25.hm
Solvent: cdcl3

Current Data Parameters

USER	qiao
NAME	61122vy1
EXPNO	12
PROCNO	1

F2 - Acquisition Parameters

Date	500000
Time	19.58
PULPROG	roesytp
SOLVENT	~~chcl3~~
AQ	0.2440854 sec
FIDRES	2.052464 Hz
DW	500000.0 usec
RG	4096
NUCLEUS	1H
HL1	0 dB
D1	1.5000000 sec
D12	0.0000200 sec
P1	5.0 usec
D13	0.0000030 sec
D0	0.0000030 sec
HL4	30 dB
P15	400000.0 usec
DE	100.0 usec
SFO1	300.1382072 MHz
NUCLEUS	1H
IN0	0.0002380 sec

F1 - Acquisition parameters

ND0	2
TD	256
SFO1	300.1382 MHz
FIDRES	8.206904 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370064 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506400000.00 Hz

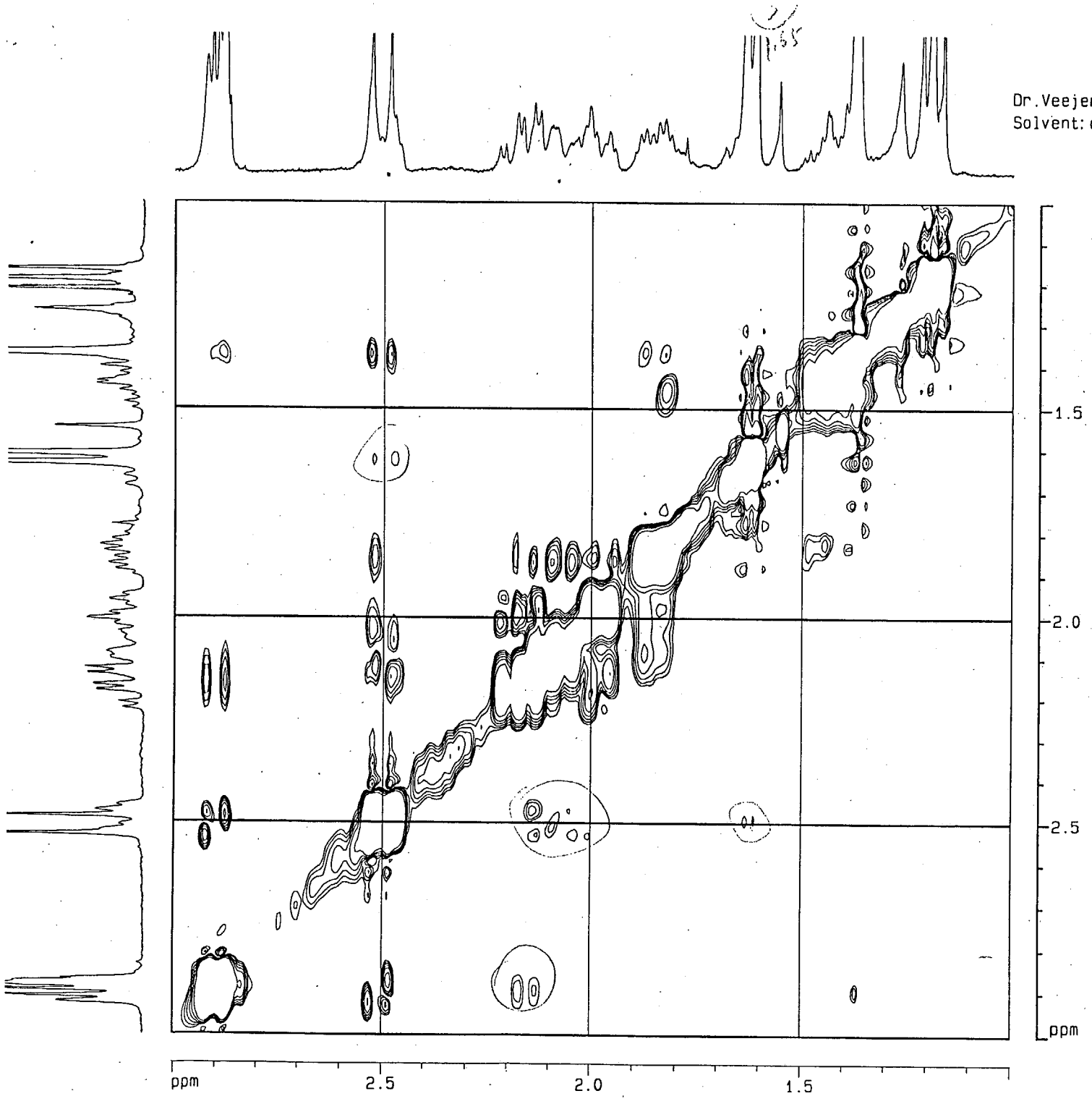
F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	5.800 ppm
F2LO	1740.79 Hz
F2PHI	0.500 ppm
F2HI	149.94 Hz
F1PLO	5.800 ppm
F1LO	1740.79 Hz
F1PHI	0.500 ppm
F1HI	150.02 Hz
F2PPMCM	0.35336 ppm/cm
F2HZCM	106.05709 Hz/cm
F1PPMCM	0.35334 ppm/cm
F1HZCM	106.05168 Hz/cm

115 (R=H)
ROESY



Current Data Parameters

USER	qiao
NAME	61122vy1
EXPNO	12
PROCNO	1

F2 - Acquisition Parameters

Date	500000
Time	19.58
PULPROG	roesyld
SOLVENT	dmso-d6
AQ	0.2440854 sec
FIDRES	2.052464 Hz
DW	500000.0 usec
RG	4096
NUCLEUS	1H
HL1	0 dB
D1	1.5000000 sec
D12	0.0000200 sec
P1	5.8 usec
D13	0.0000030 sec
D0	0.0000030 sec
HL4	30 dB
P15	400000.0 usec
DE	100.0 usec
SFO1	300.1382072 MHz
NUCLEUS	1H
IN0	0.0002380 sec

F1 - Acquisition parameters

ND0	2
TD	256
SFO1	300.1382 MHz
FIDRES	8.206904 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370064 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506400000.00 Hz

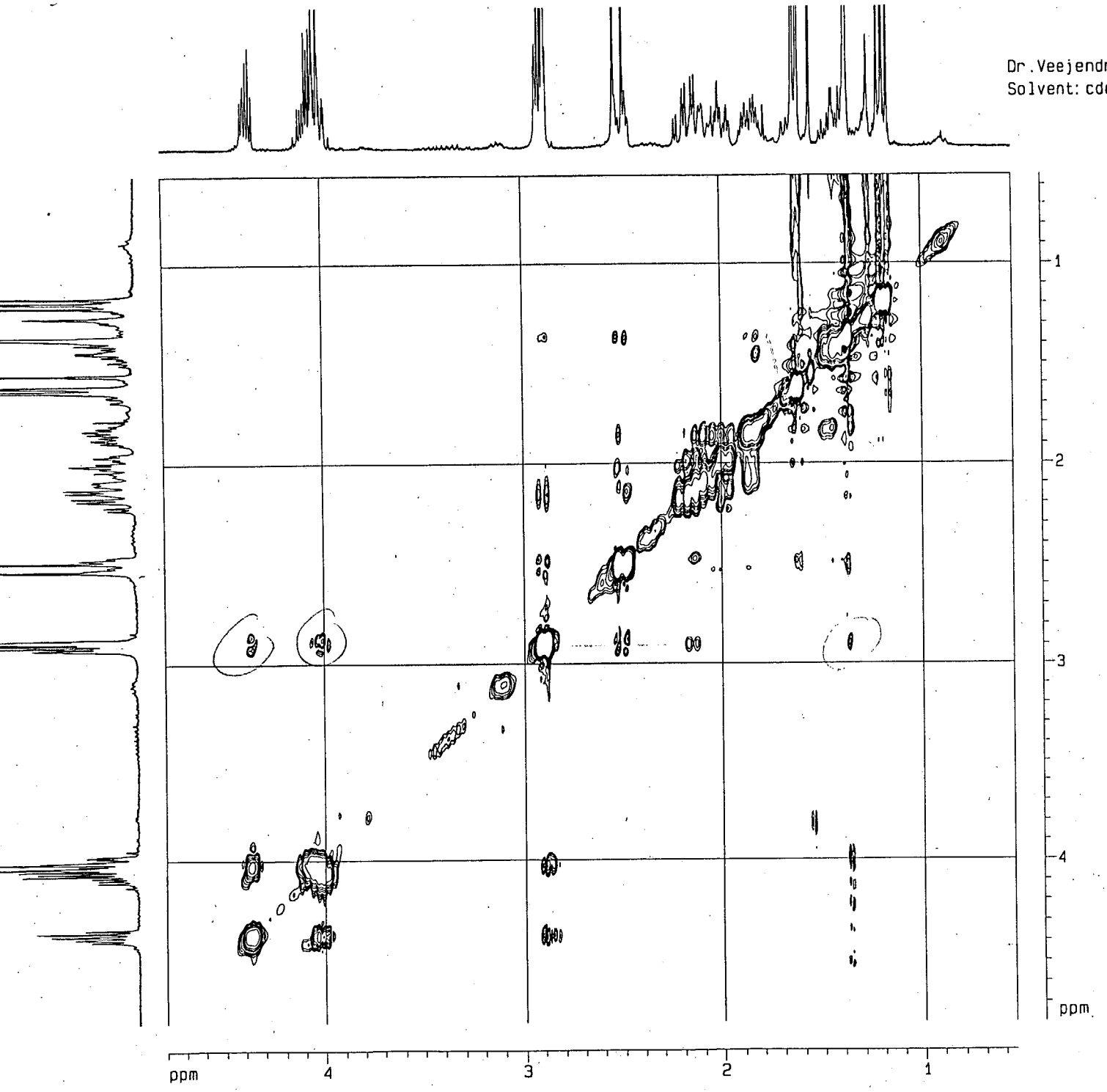
F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.002 ppm
F2LO	901.14 Hz
F2PHI	0.999 ppm
F2HI	299.77 Hz
F1PLO	3.002 ppm
F1LO	900.95 Hz
F1PHI	0.999 ppm
F1HI	299.79 Hz
F2PPMCM	0.13358 ppm/cm
F2HZCM	40.09146 Hz/cm
F1PPMCM	0.13353 ppm/cm
F1HZCM	40.07705 Hz/cm

15 (Crime)
ROESY



Current Data Parameters

USER	qiao
NAME	61106vy1
EXPNO	5
PROCNO	1

F2 - Acquisition Parameters

Date	961108
Time	18.23
PULPROG	roesytp
SOLVENT	dmso-d6
AQ	0.2440854 sec
FIDRES	2.052464 Hz
DW	237.9 usec
RG	4096
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
D12	0.0000200 sec
P1	5.8 usec
D13	0.0000030 sec
D0	0.0000030 sec
HL4	30 dB
P15	500000.0 usec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	1024
NS	112
DS	4
INO	0.0002380 sec

F1 - Acquisition parameters

NDO	2
TD	256
SFO1	300.1362 MHz
FIDRES	8.206904 Hz
SW	7.000 ppm

F2 - Processing parameters

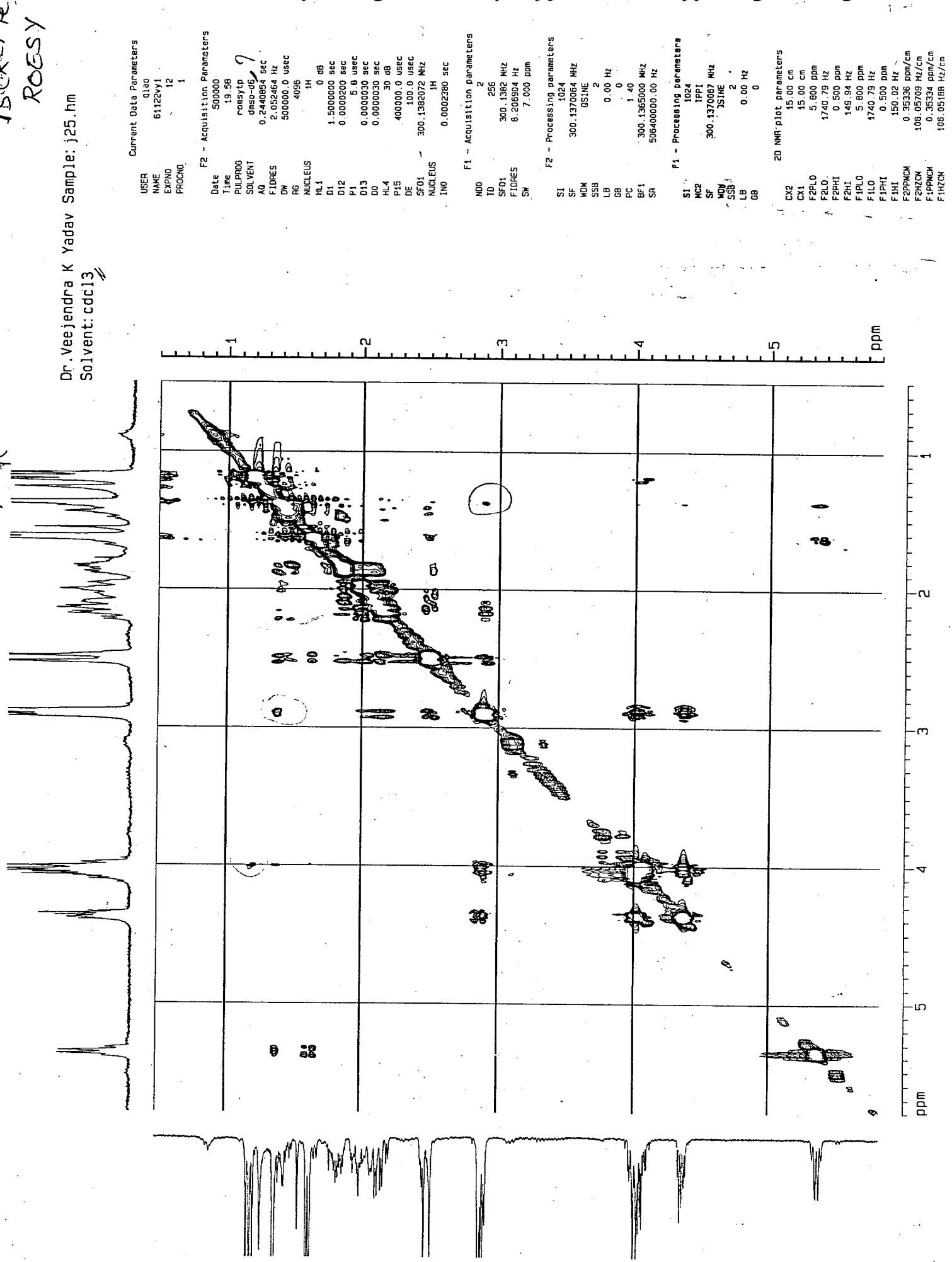
SI	1024
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
OF1	300.1365000 MHz
SR	506.70 Hz

F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

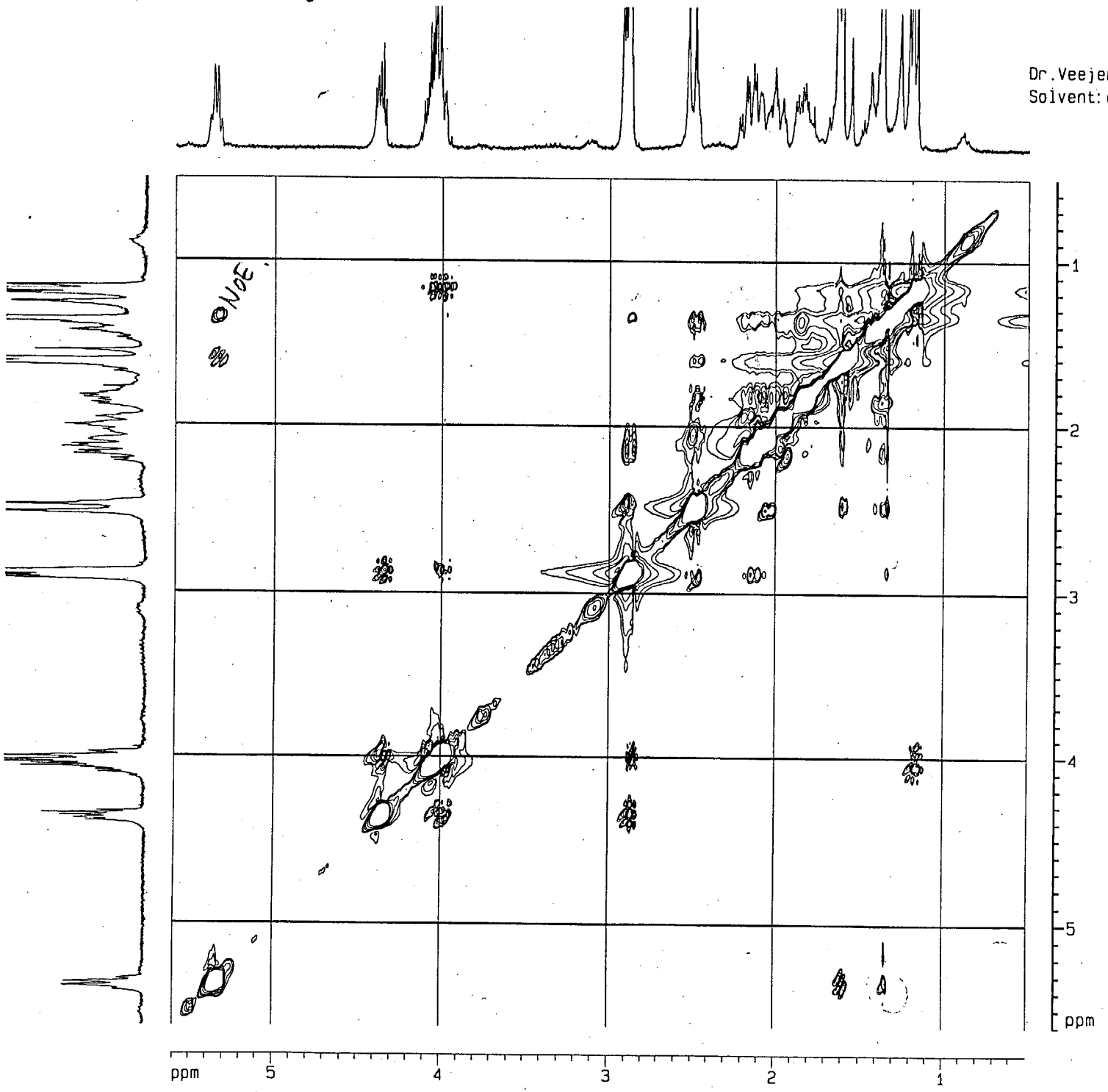
2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	4.800 ppm
F2LO	1440.66 Hz
F2PHI	0.546 ppm
F2HI	164.01 Hz
F1PLO	4.800 ppm
F1LO	1440.66 Hz
F1PHI	0.548 ppm
F1HI	164.38 Hz
F2PPMCM	0.28357 ppm/cm
F2HZCM	85.11015 Hz/cm
F1PPMCM	0.28349 ppm/cm
F1HZCM	85.08528 Hz/cm



NMESY

15 (R=H)
NOESY



Current Data Parameters

USER	qiao
NAME	61122vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date	500000
Time	19.58
PULPROG	noesytp
SOLVENT	dmso-d6
AQ	0.2440854 sec
FIDRES	2.052464 Hz
DW	500000.0 usec
RG	2048
NUCLEUS	1H
HL1	0 dB
D1	1.5000000 sec
P1	5.8 usec
D0	0.0000030 sec
D8	0.4000000 sec
DE	100.0 usec
SFO1	300.1382072 MHz
NUCLEUS	1H
IN0	0.0002380 sec

F1 - Acquisition parameters

ND0	2
TD	256
SFO1	300.1382 MHz
FIDRES	8.206904 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370132 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	513242176.00 Hz

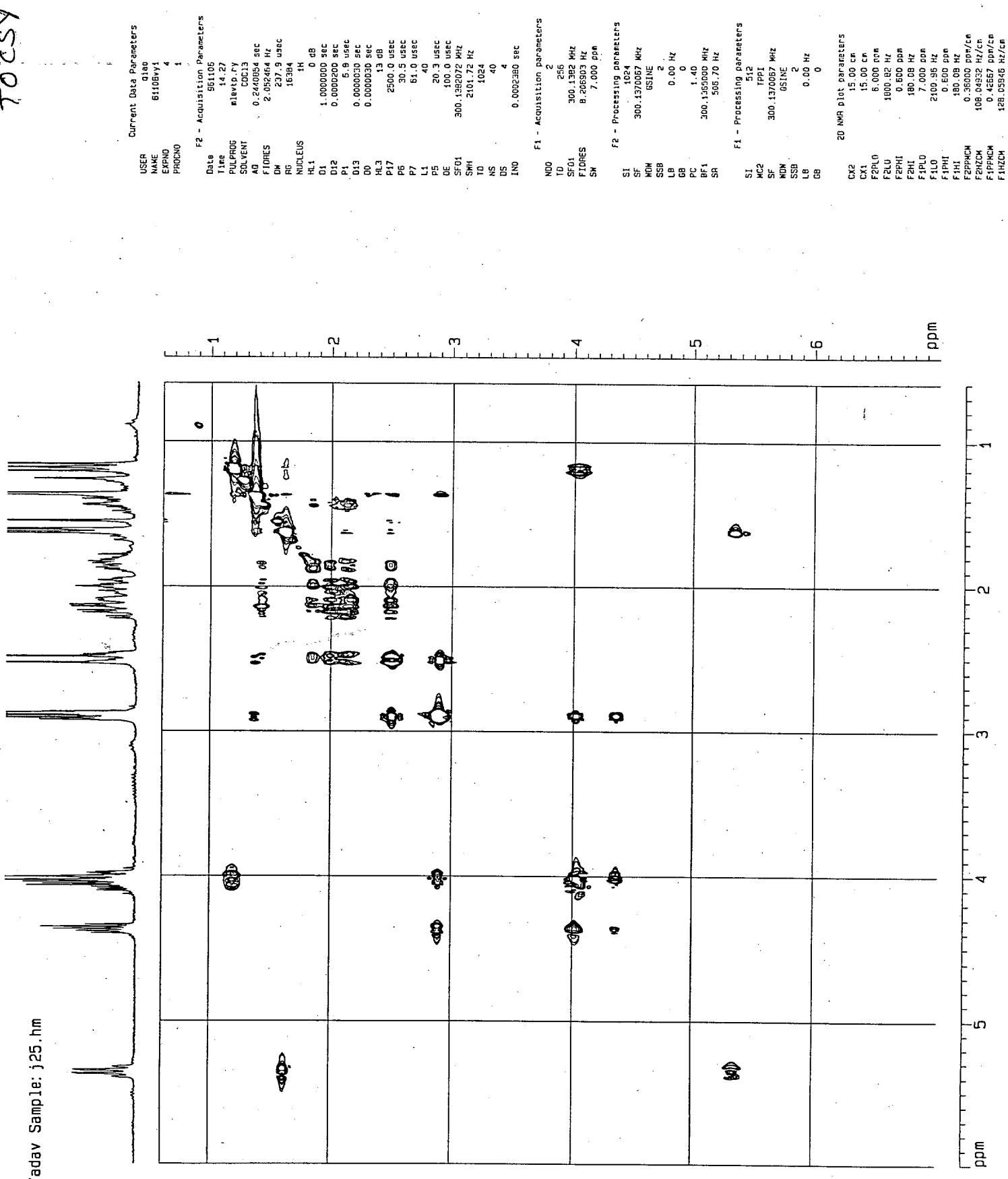
F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1370129 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

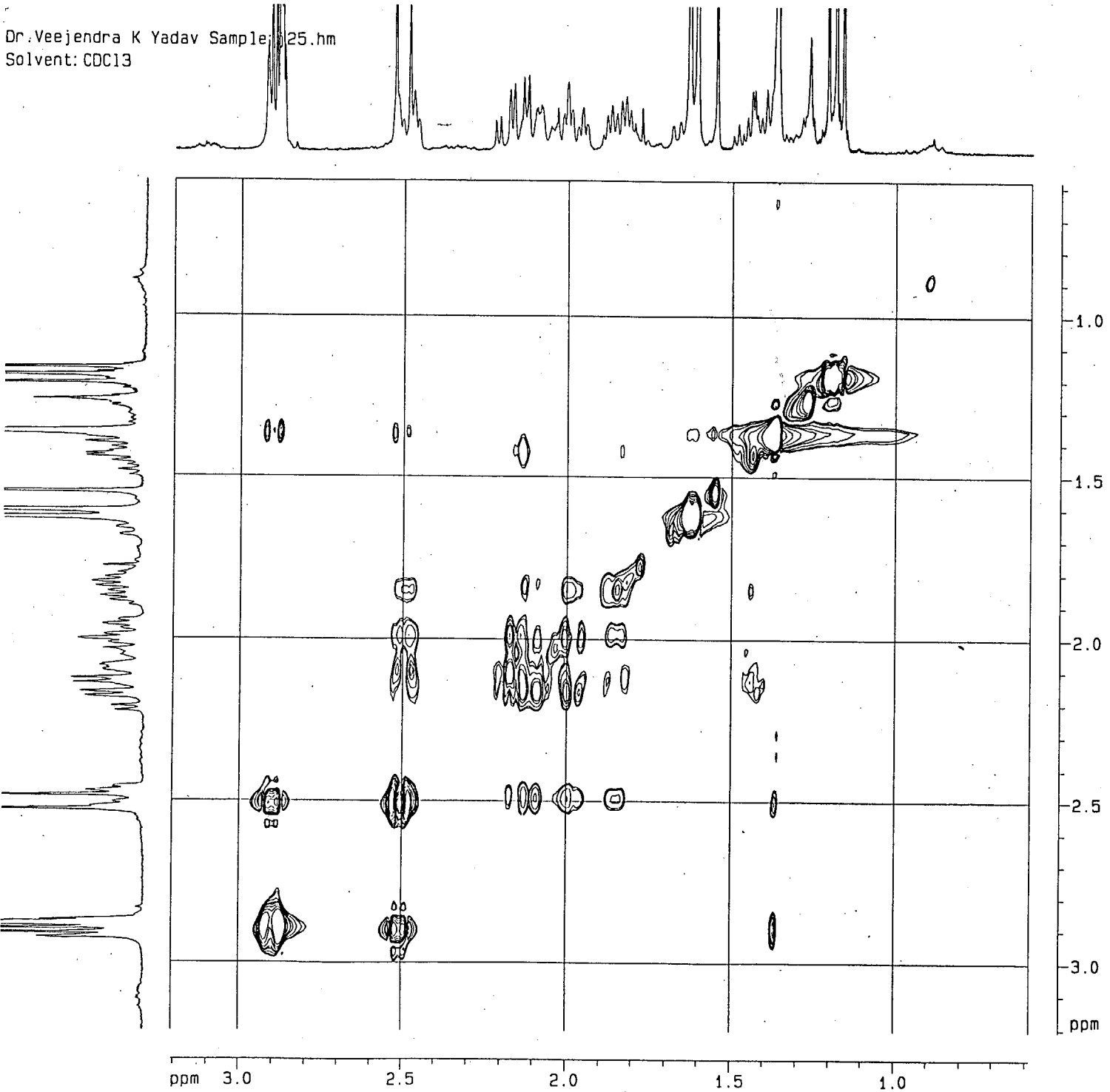
2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	5.600 ppm
F2LO	1680.77 Hz
F2PHI	0.500 ppm
F2HI	150.07 Hz
F1PLO	5.600 ppm
F1LO	1680.77 Hz
F1PHI	0.500 ppm
F1HI	150.07 Hz
F2PPMCM	0.34000 ppm/cm
F2HZCM	102.04659 Hz/cm
F1PPMCM	0.34000 ppm/cm

15 (R=Me)
TOCSY



15 (R= Me)
TOCSY



Current Data Parameters

USER	qiao
NAME	81106vyl
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	14.27
PULPROG	mlevtp.ry
SOLVENT	CDCl3
AQ	0.2440854 sec
FIDRES	2.052464 Hz
DW	237.9 usec
RG	16384
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
D12	0.0000200 sec
P1	6.8 usec
D13	0.0000030 sec
D0	0.0000030 sec
HL3	13 dB
P17	2500.0 usec
P6	30.6 usec
P7	61.0 usec
L1	40
P5	20.3 usec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	1024
NS	40
DS	4
IN0	0.0002380 sec

F1 - Acquisition parameters

ND0	2
TD	256
SFO1	300.1382 MHz
FIDRES	8.206903 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1305000 MHz
SR	508.70 Hz

F1 - Processing parameters

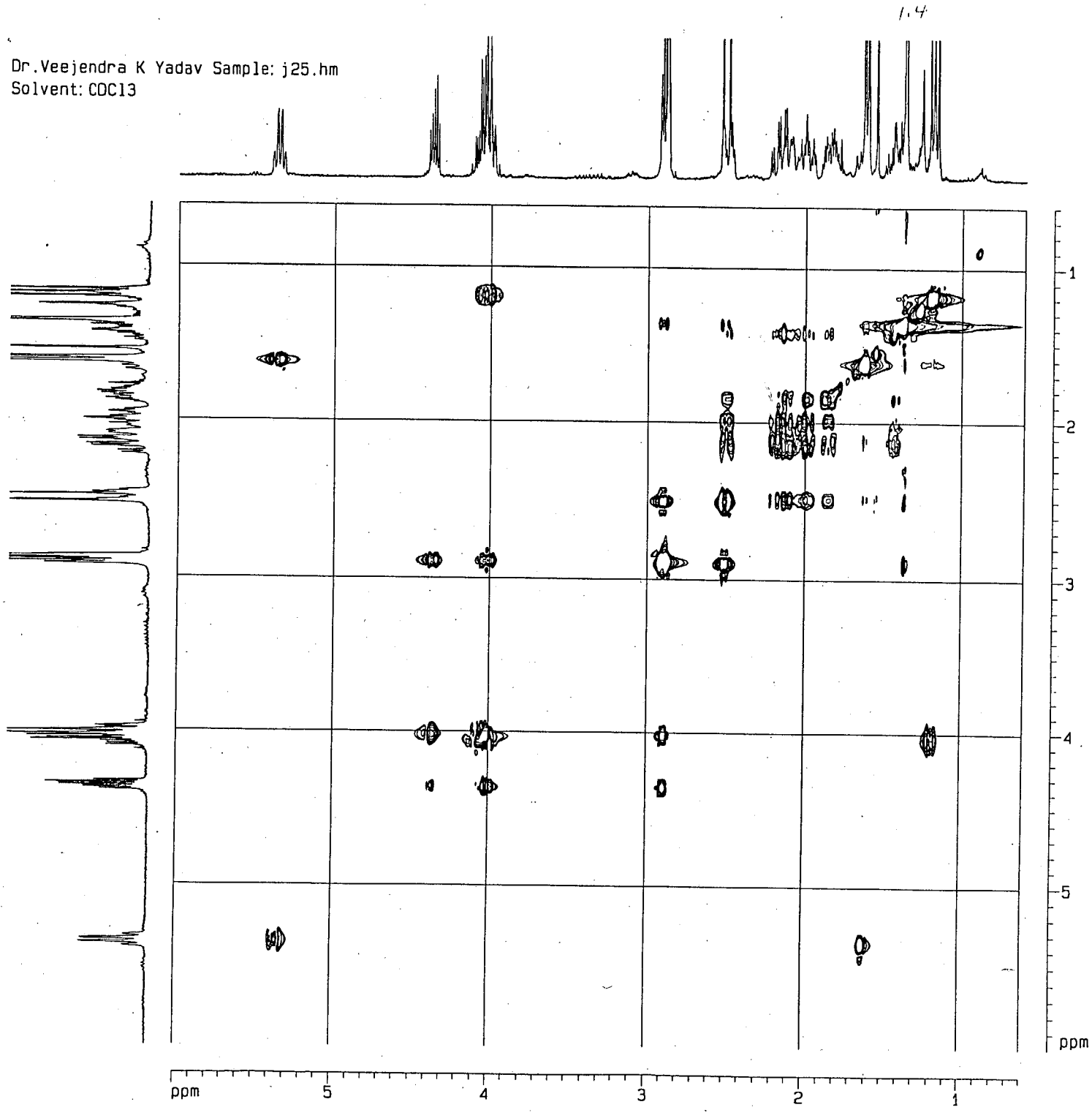
SI	512
MC2	TPPI
SF	300.1370067 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.207 ppm
F2LO	962.41 Hz
F2PHI	0.587 ppm
F2HI	176.32 Hz
F1PLO	3.207 ppm
F1LO	962.50 Hz
F1PHI	0.582 ppm
F1HI	174.64 Hz
F2PPMCM	0.17461 ppm/cm
F2HZCM	52.40625 Hz/cm
F1PPMCM	0.17500 ppm/cm
F1HZCM	52.52417 Hz/cm

15 (R=Me)

TOCSY



Current Data Parameters

USER	qiao
NAME	61105vy1
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters

Date	961106
Time	14.27
PULPROG	mlevtp.ry
SOLVENT	CDCl3
AQ	0.2440054 sec
FIDRES	2.052464 Hz
DW	237.9 usec
RG	16384
NUCLEUS	1H
HL1	0 dB
D1	1.0000000 sec
D12	0.0000200 sec
P1	5.8 usec
D13	0.0000030 sec
D0	0.0000030 sec
HL3	13 dB
P17	2500.0 usec
P6	30.5 usec
P7	61.0 usec
L1	40
P5	20.3 usec
DE	100.0 usec
SFO1	300.1382072 MHz
SWH	2101.72 Hz
TD	1024
NS	40
DS	4
IN0	0.0002380 sec

F1 - Acquisition parameters

ND0	2
TD	256
SFO1	300.1382 MHz
FIDRES	8.206903 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370057 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
BF1	300.1365000 MHz
SR	506.70 Hz

F1 - Processing parameters

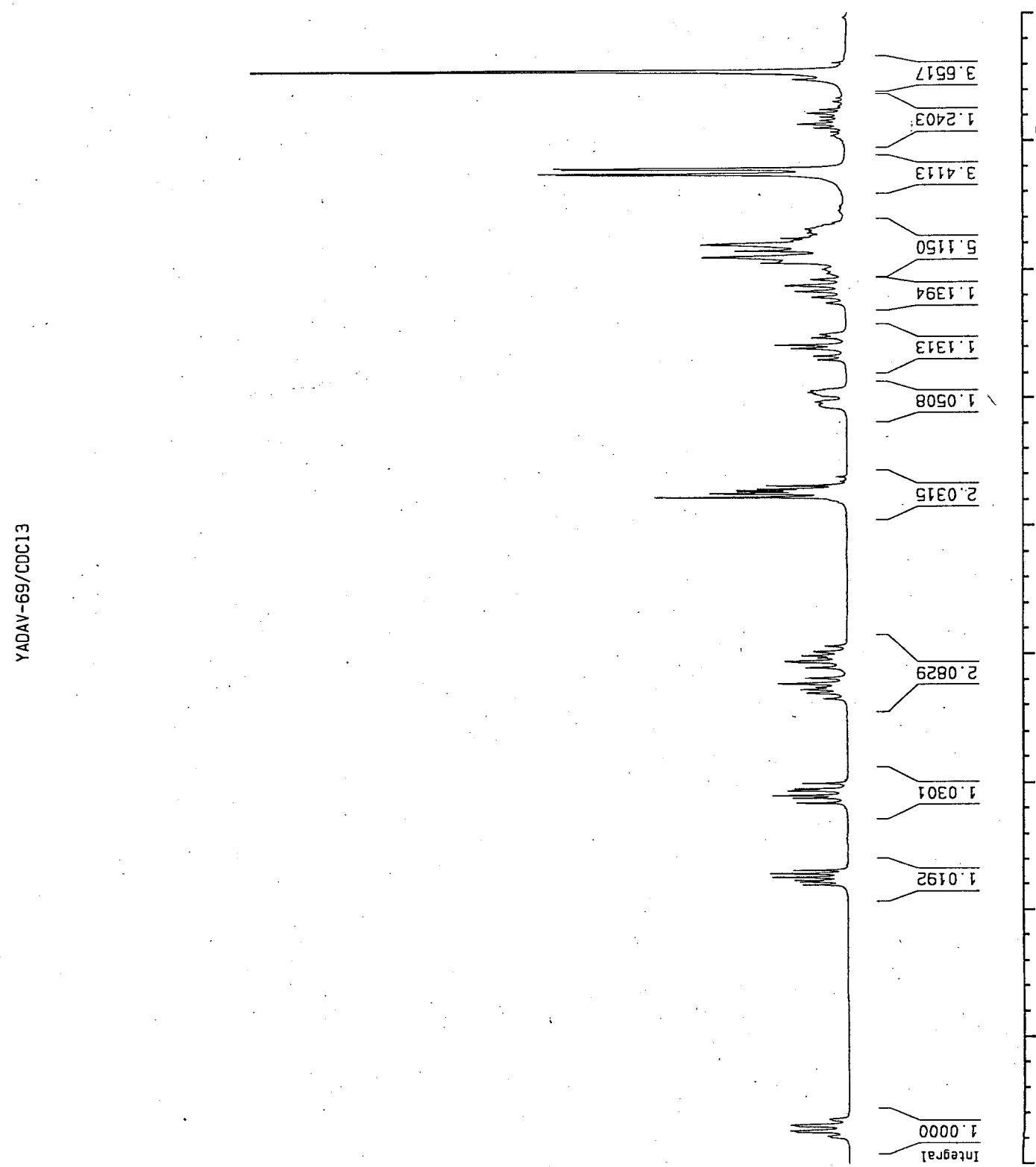
SI	512
MC2	TPPI
SF	300.1370057 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

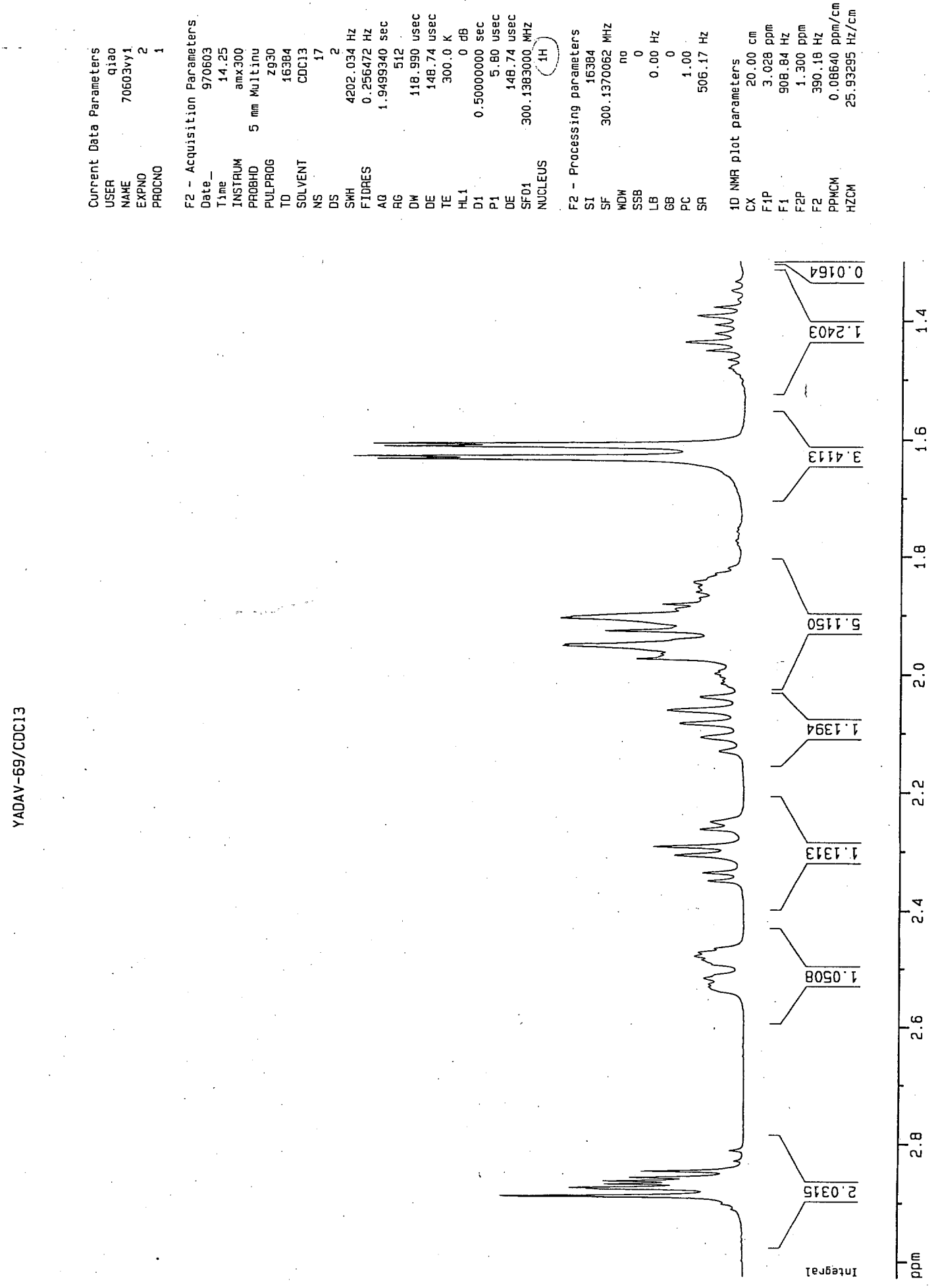
CX2	15.00 cm
CX1	15.00 cm
F2PLO	6.000 ppm
F2LO	1800.82 Hz
F2PHI	0.600 ppm
F2HI	180.08 Hz
F1PLO	6.000 ppm
F1LO	1800.82 Hz
F1PHI	0.600 ppm
F1HI	180.08 Hz
F2PPMCM	0.36000 ppm/cm
F2HZCM	108.04932 Hz/cm
F1PPMCM	0.36000 ppm/cm
F1HZCM	108.04932 Hz/cm

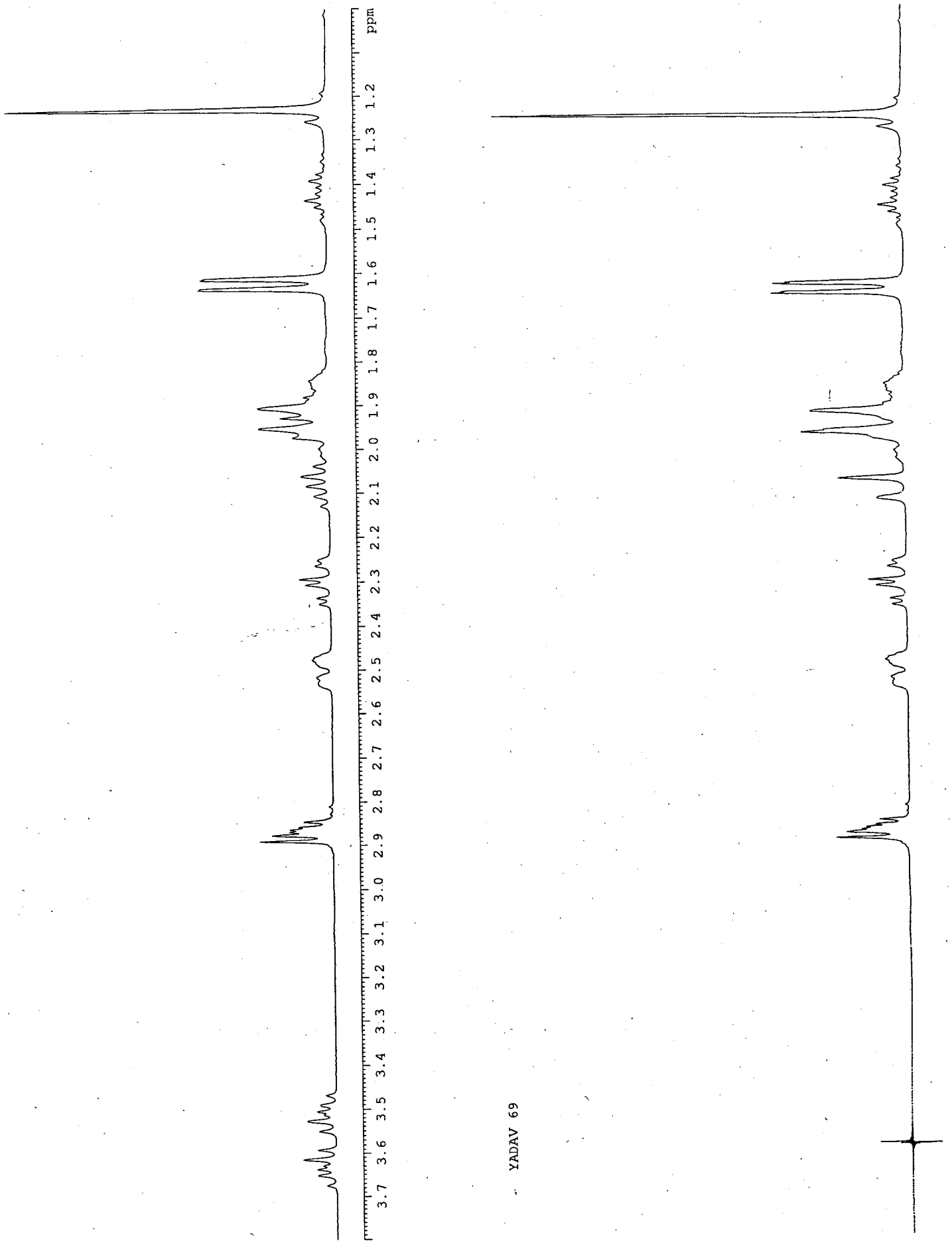
16 (R = Me)

^1H

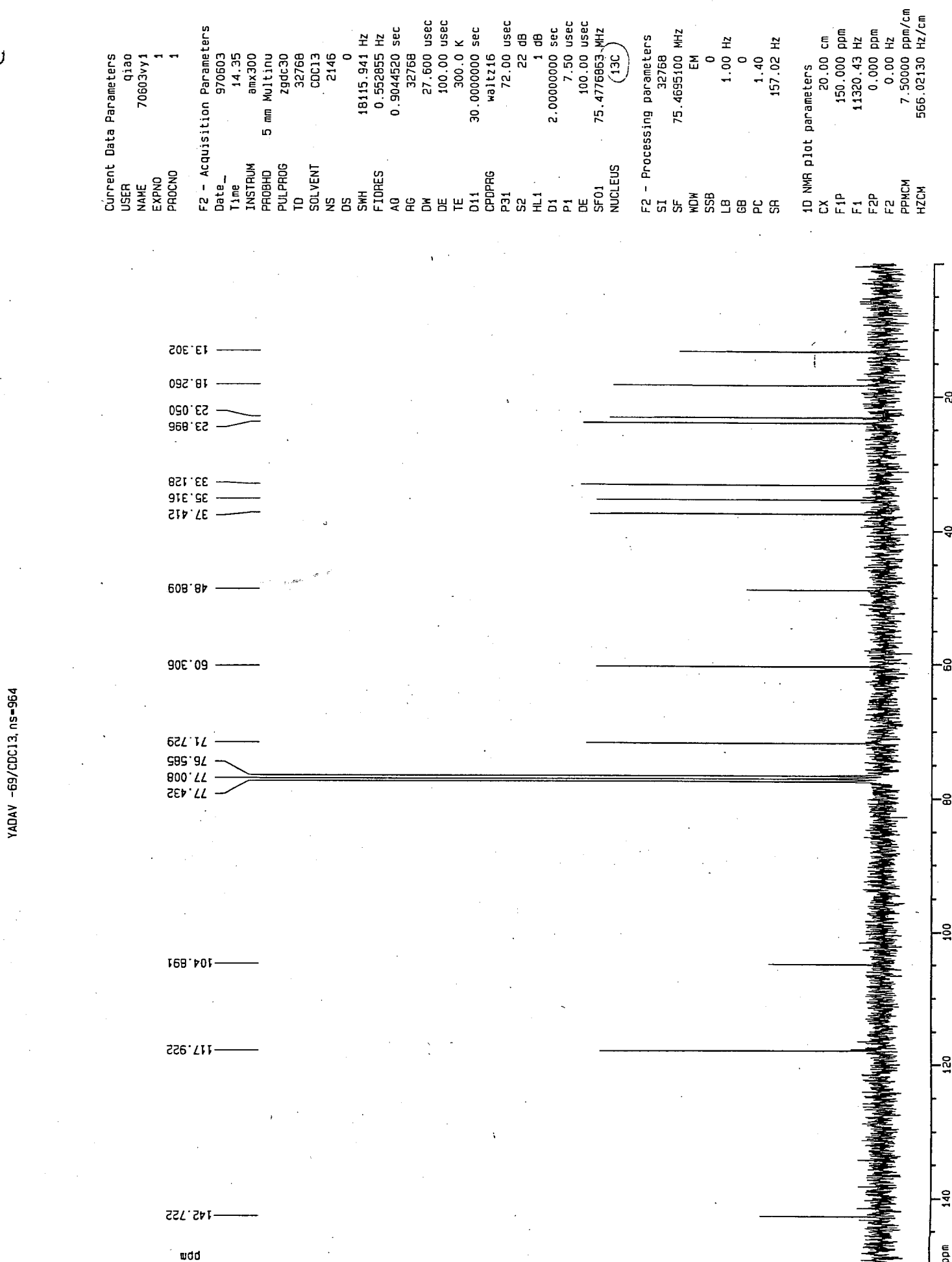


16 (R = Me)

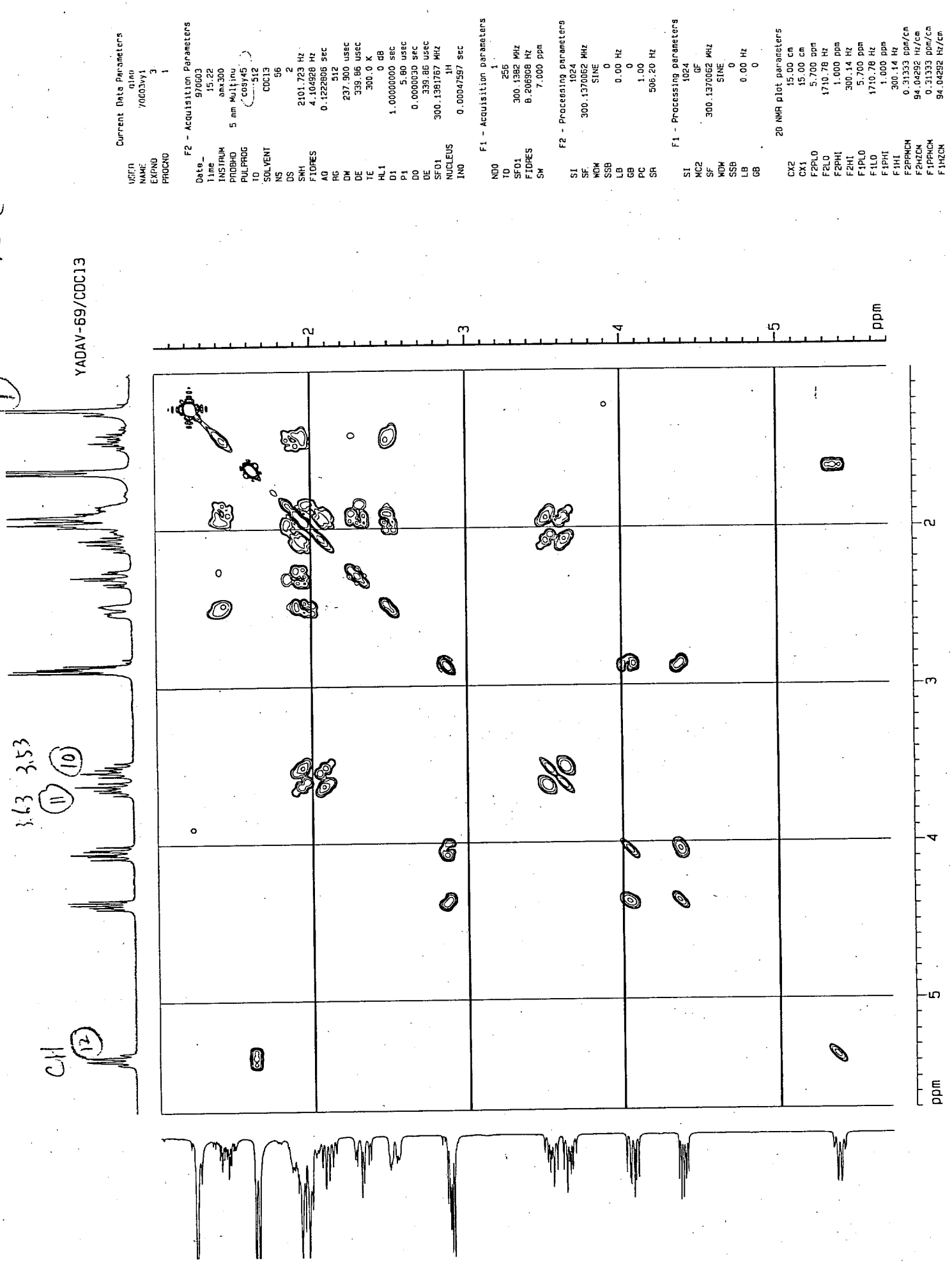




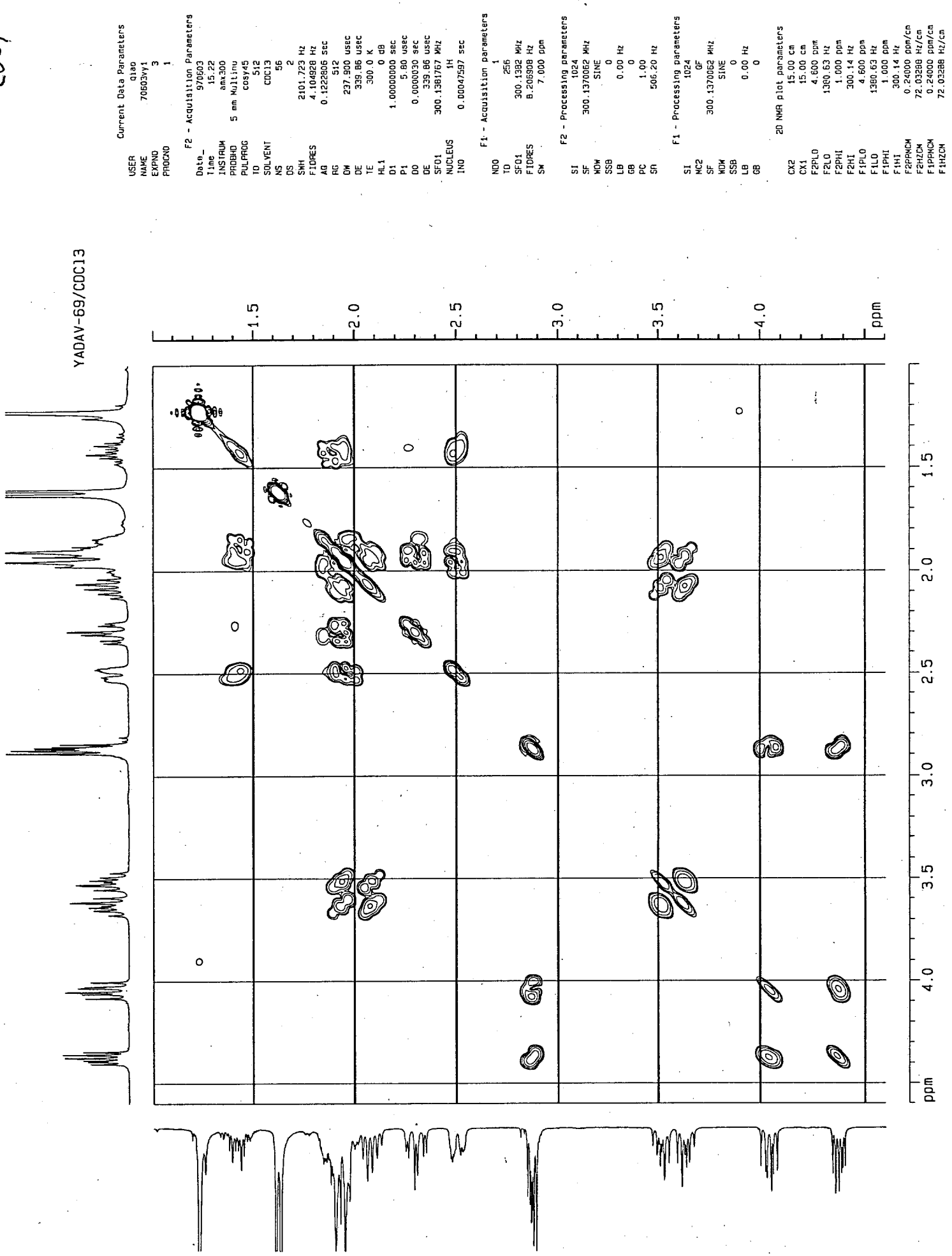
16 (R=Me)
13C



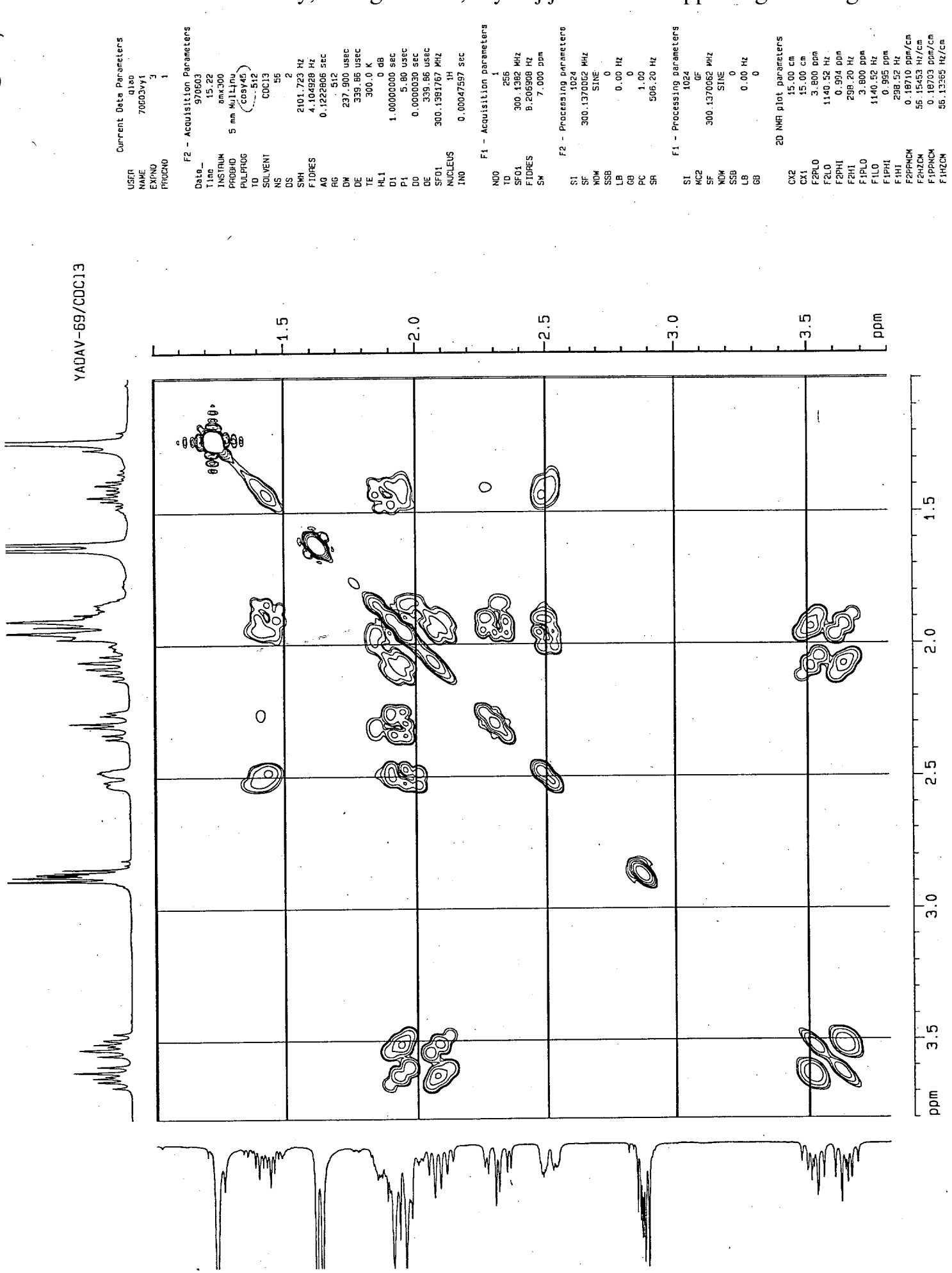
16 (R = Me) COSY



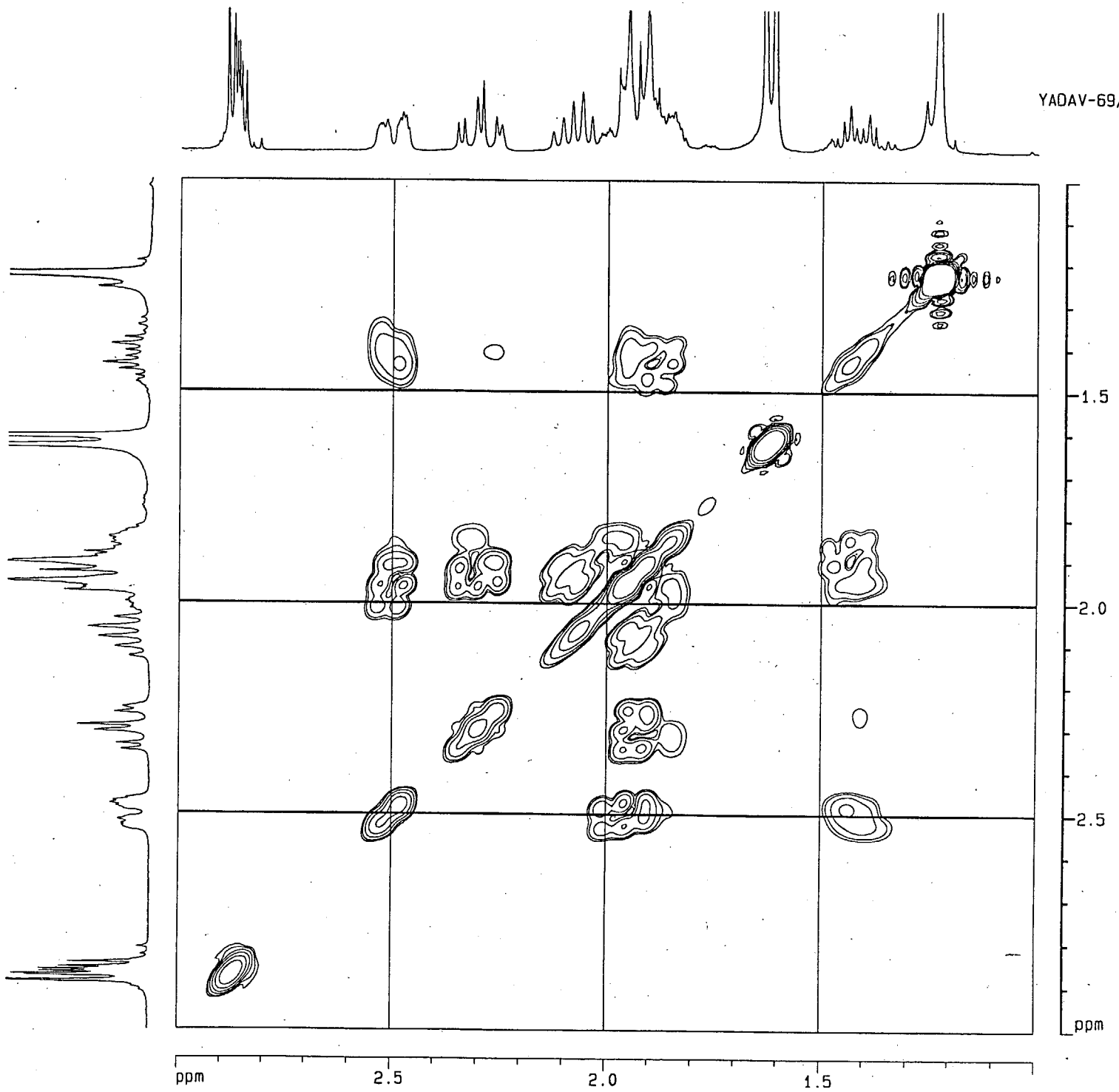
16 (R=Me)
COSY



16 (R = Me)
COSY



16 (R = Me)
COSY



Current Data Parameters

USER	qiao
NAME	70603vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	970603
Time	15.22
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	(cosy45)
TD	512
SOLVENT	CDCl3
NS	56
DS	2
SWH	2101.723 Hz
FIDRES	4.104928 Hz
AQ	0.1222806 sec
RG	512
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.00000000 sec
P1	5.80 usec
DD	0.0000030 sec
DE	339.86 usec
SFO1	300.1381767 MHz
NUCLEUS	1H
IN0	0.00047597 sec

F1 - Acquisition parameters

ND0	1
TD	256
SFO1	300.1382 MHz
FIDRES	8.206908 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370062 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SR	506.20 Hz

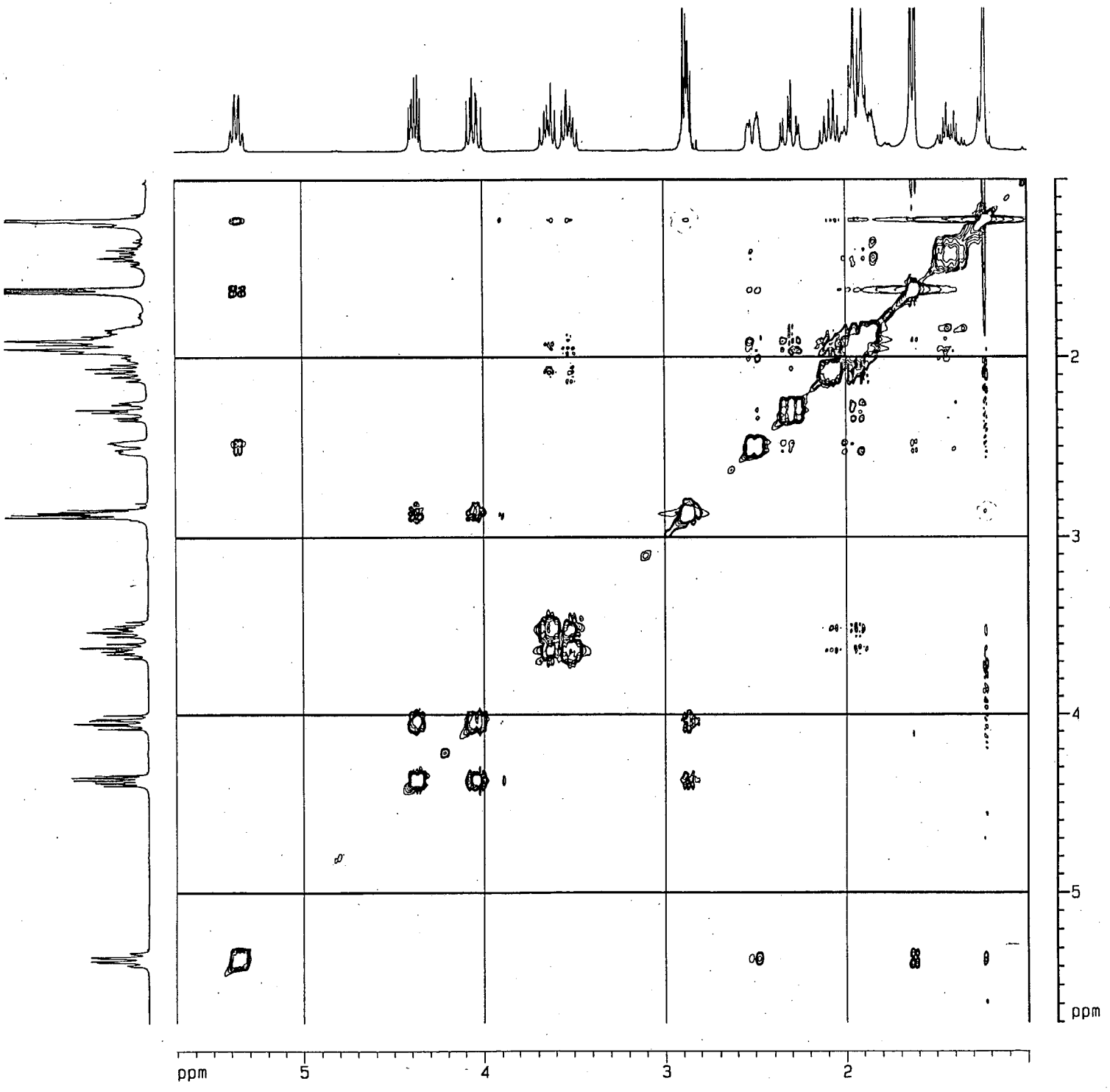
F1 - Processing parameters

SI	1024
MC2	QF
SF	300.1370062 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.000 ppm
F2LO	900.41 Hz
F2PHI	1.000 ppm
F2HI	300.14 Hz
F1PLO	3.000 ppm
F1LO	900.41 Hz
F1PHI	1.000 ppm
F1HI	300.14 Hz
F2PPMCM	0.13333 ppm/cm
F2HZCM	40.01826 Hz/cm
F1PPMCM	0.13333 ppm/cm
F1HZCM	40.01826 Hz/cm

16(R=Me) ROESY



YADAV-69/CDCl3

Current Data Parameters	
USER	qiao
NAME	70603vy1
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters	
Date_	970603
Time	20.07
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	roesytp
TD	1024
SOLVENT	cdcl3
NS	48
DS	4
SWH	2101.723 Hz
FIDRES	2.052464 Hz
AQ	0.2440854 sec
RG	512
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.50000000 sec
D12	0.0000200 sec
P1	5.80 usec
D13	0.0000040 sec
D0	0.0000030 sec
HL4	30 dB
P15	400000.00 usec
DE	339.86 usec
SFO1	300.1381767 MHz
NUCLEUS	1H
IN0	0.00023799 sec

F1 - Acquisition parameters	
ND0	2
TD	512
SFO1	300.1382 MHz
FIDRES	4.103452 Hz
SW	7.000 ppm

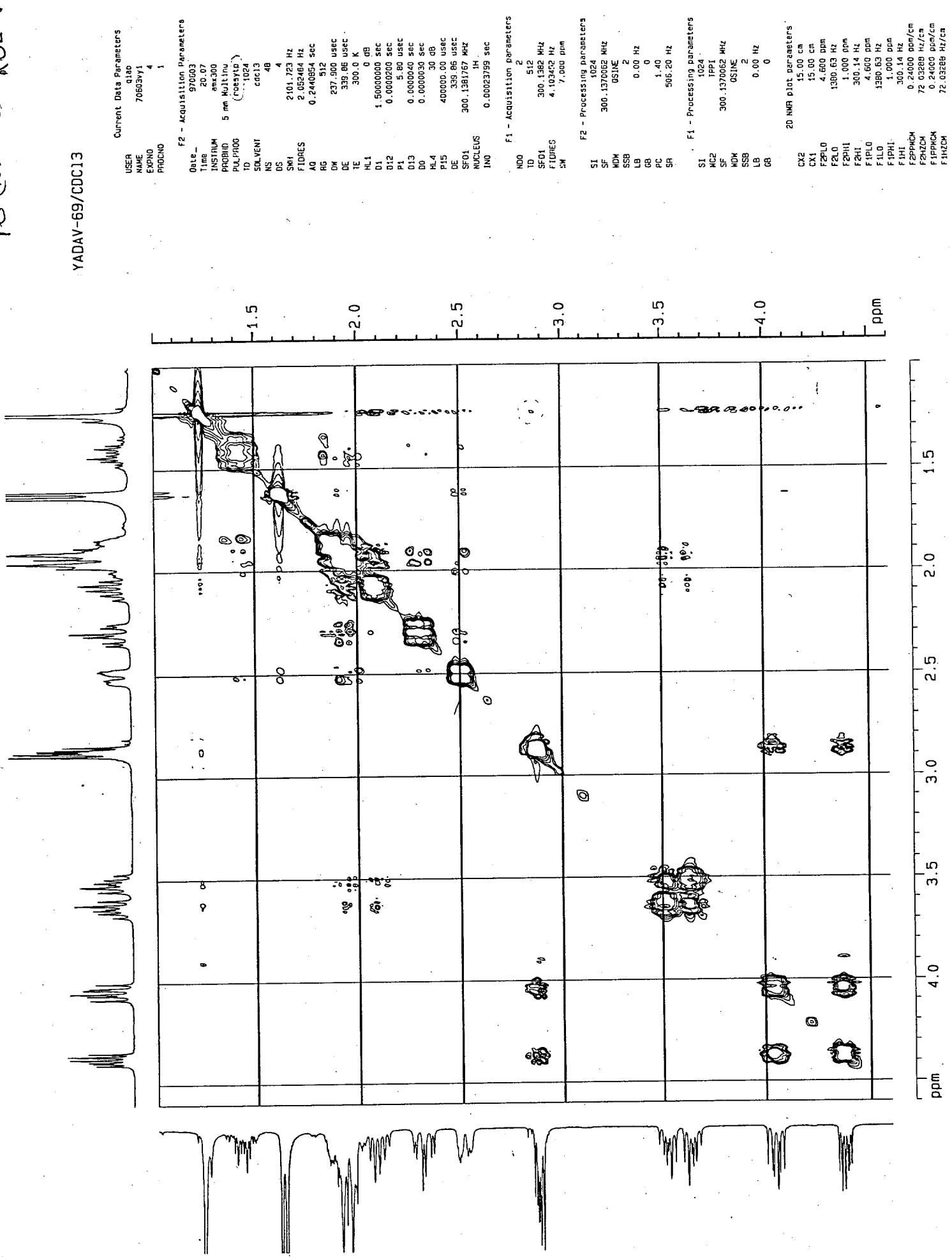
F2 - Processing parameters	
SI	1024
SF	300.1370062 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
SR	506.20 Hz

F1 - Processing parameters	
SI	1024
MC2	TPPI
SF	300.1370062 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

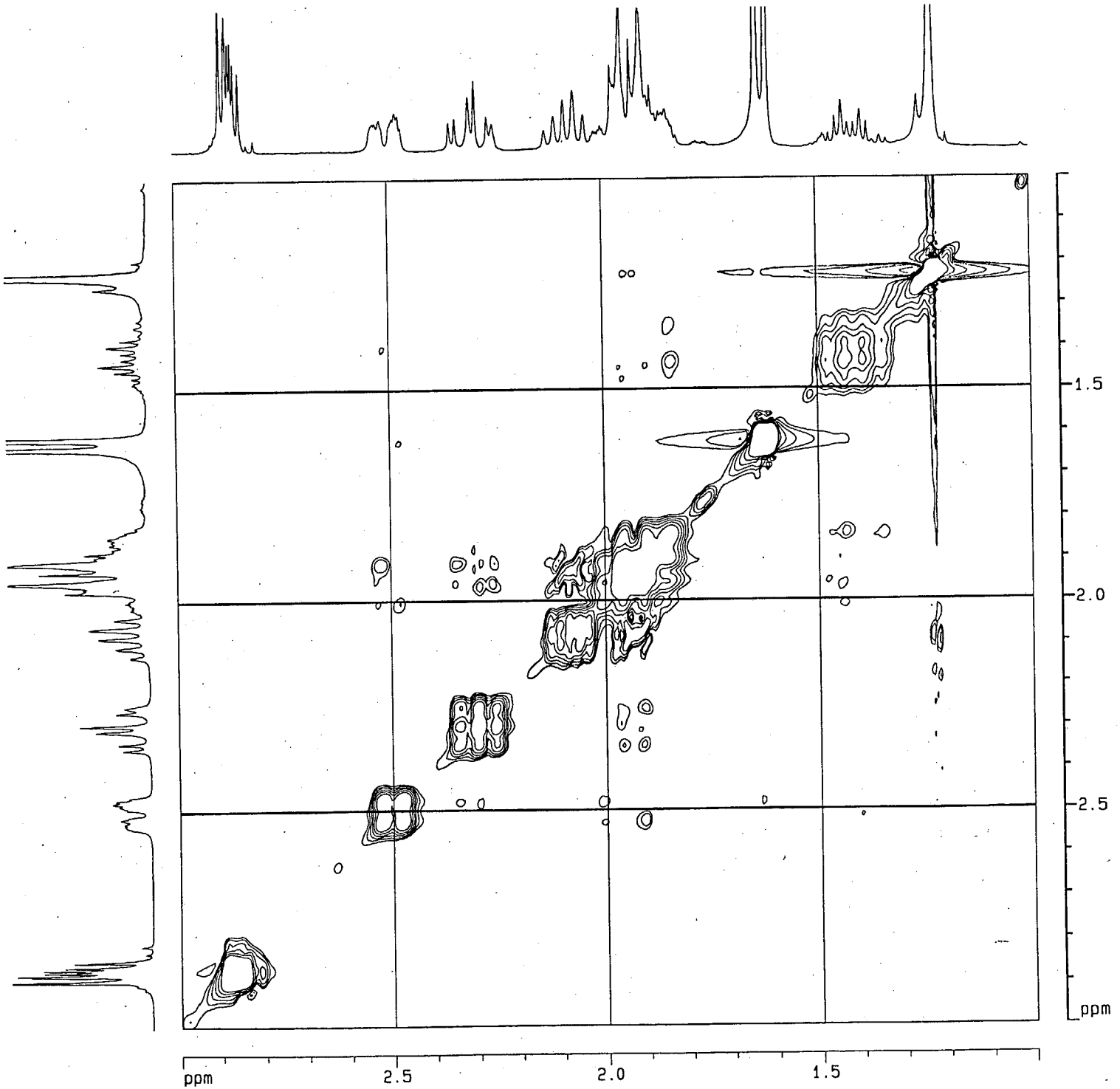
2D NMR plot parameters	
CX2	15.00 cm
CX1	15.00 cm
F2PLO	5.705 ppm
F2LO	1712.35 Hz
F2PHI	0.994 ppm
F2HI	298.20 Hz
F1PLO	5.705 ppm
F1LO	1712.16 Hz
F1PHI	0.995 ppm
F1HI	298.52 Hz
F2PPMCM	0.31411 ppm/cm
F2HZCM	94.27651 Hz/cm
F1PPMCM	0.31400 ppm/cm
F1HZCM	94.24261 Hz/cm

16 (R = Me) ROESY

YADAV-69/CDCl3



16(R=Ac) ROESY



YADAV-69/CDCl3

Current Data Parameters

USER	qiao
NAME	70603vy1
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters

Date_	970603
Time	20.07
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	roesytp
TD	1024
SOLVENT	cdcl3
NS	48
DS	4
SWH	2101.723 Hz
FIDRES	2.052464 Hz
AQ	0.2440854 sec
RG	512
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.50000000 sec
D12	0.0000200 sec
P1	5.80 usec
D13	0.0000040 sec
D0	0.0000030 sec
HL4	30 dB
P15	400000.00 usec
DE	339.86 usec
SFO1	300.1381767 MHz
NUCLEUS	1H
IN0	0.00023799 sec

F1 - Acquisition parameters

ND0	2
TD	512
SFO1	300.1382 MHz
FIDRES	4.103452 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370062 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
SR	506.20 Hz

F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1370062 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	3.000 ppm
F2LO	900.41 Hz
F2PHI	1.000 ppm
F2HI	300.14 Hz
F1PLO	3.000 ppm
F1LO	900.41 Hz
F1PHI	1.000 ppm
F1HI	300.14 Hz
F2PPMCM	0.13333 ppm/cm
F2HZCM	40.01826 Hz/cm
F1PPMCM	0.13333 ppm/cm
F1HZCM	40.01826 Hz/cm

16 (R = PR)
1H

mp

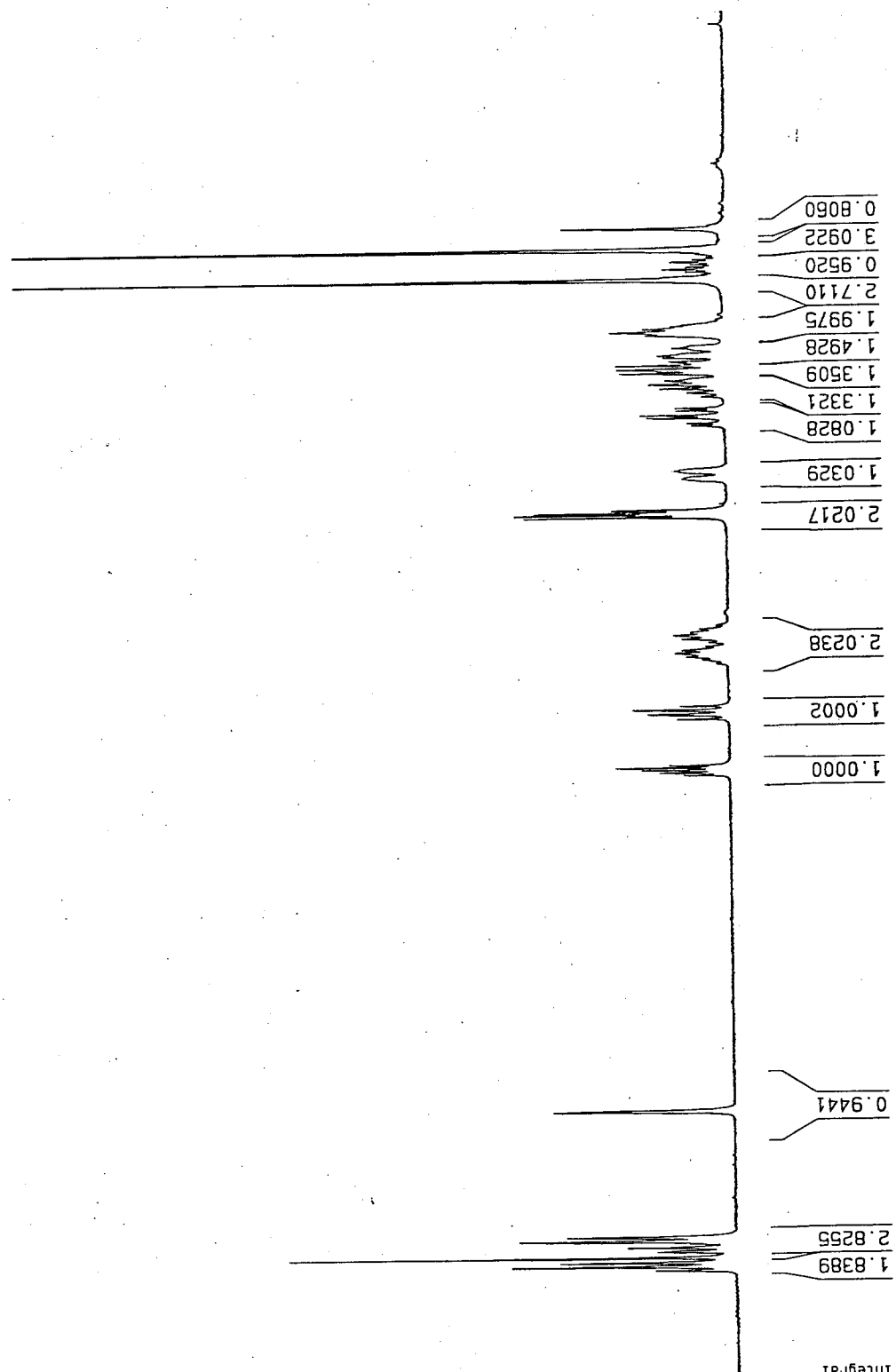
Current Data Parameters
USER qiao
NAME 70604vy1
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 970604
Time 13.52
INSTRUM amx300
PROBHD 5 mm Multinu
PULPROG zg30
TD 16384
SOLVENT CDCl3
NS 68
DS 2
SWH 4202.387 Hz
FIDRES 0.256493 Hz
AQ 1.9499340 sec
RG 4096
DW 118.980 usec
DE 148.73 usec
TE 300.0 K
HL1 0 dB
D1 0.50000000 sec
P1 5.80 usec
DE 148.73 usec
SFO1 300.1383000 MHz
NUCLEUS (1H)

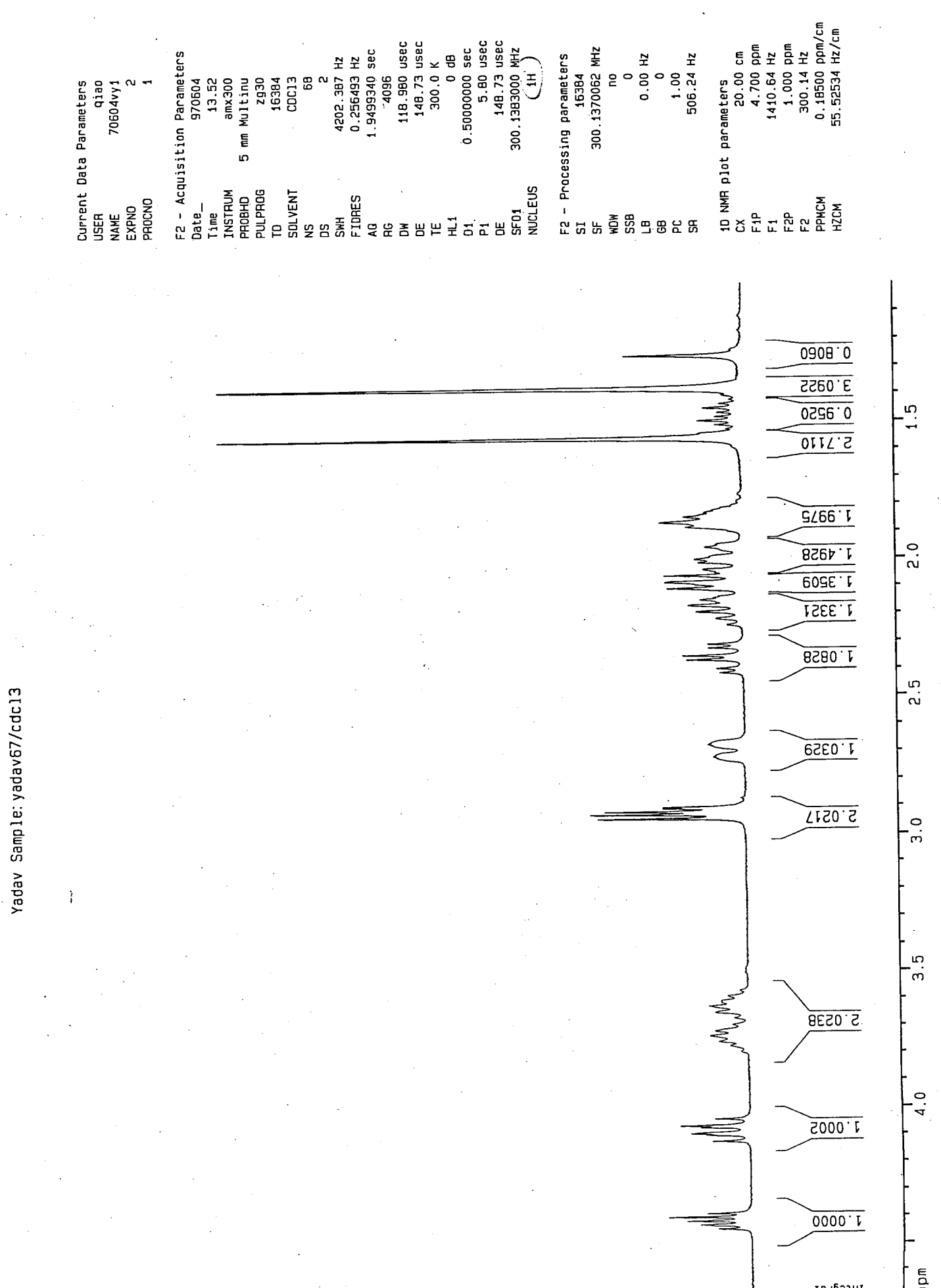
F2 - Processing parameters
SI 16384
SF 300.1370062 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
SR 506.24 Hz

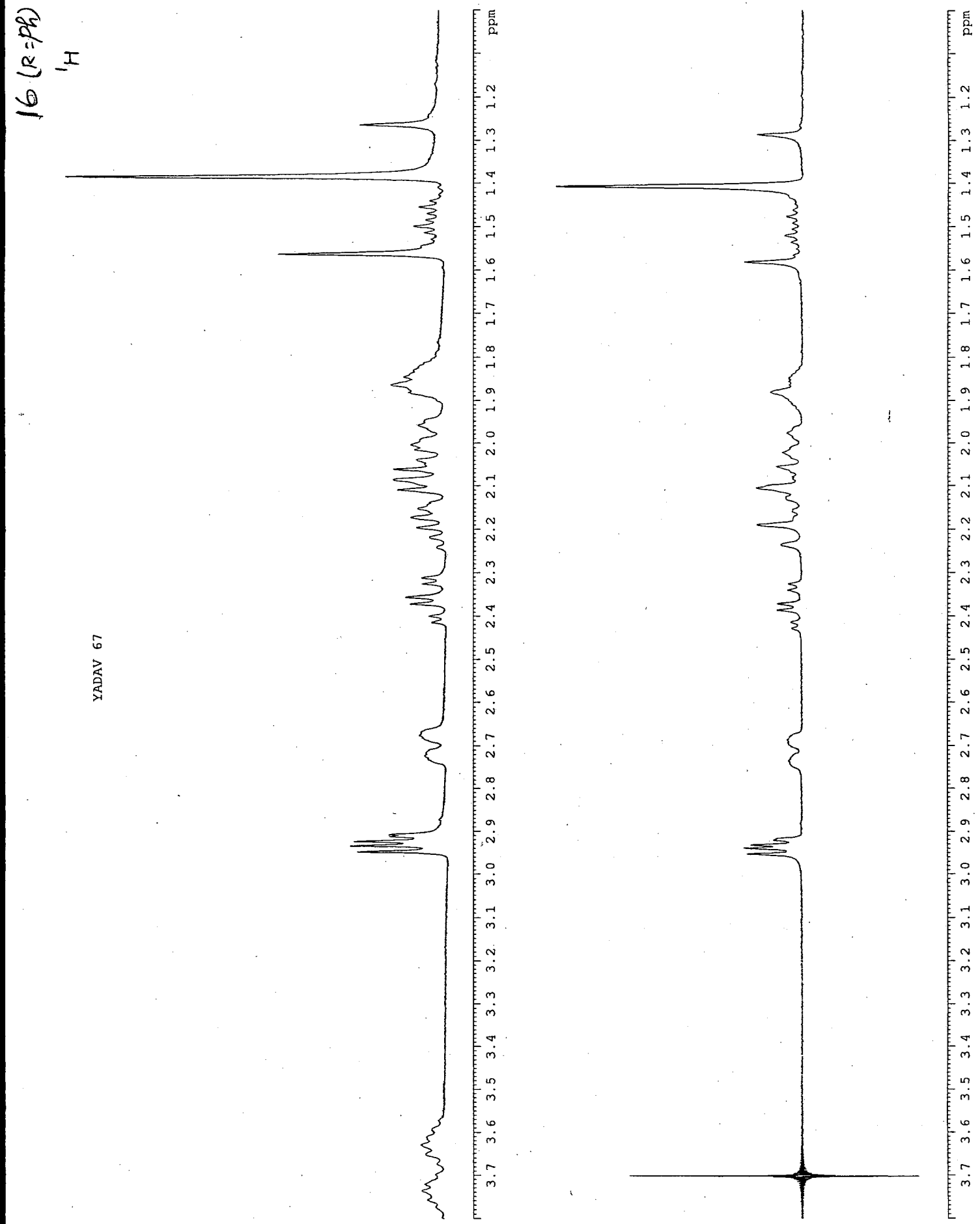
1D NMR plot parameters
CX 20.00 cm
F1P 8.000 ppm
F1 2401.10 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.40000 ppm/cm
HZCM 120.05479 Hz/cm

Yadav Sample: yadav67/cdcl3

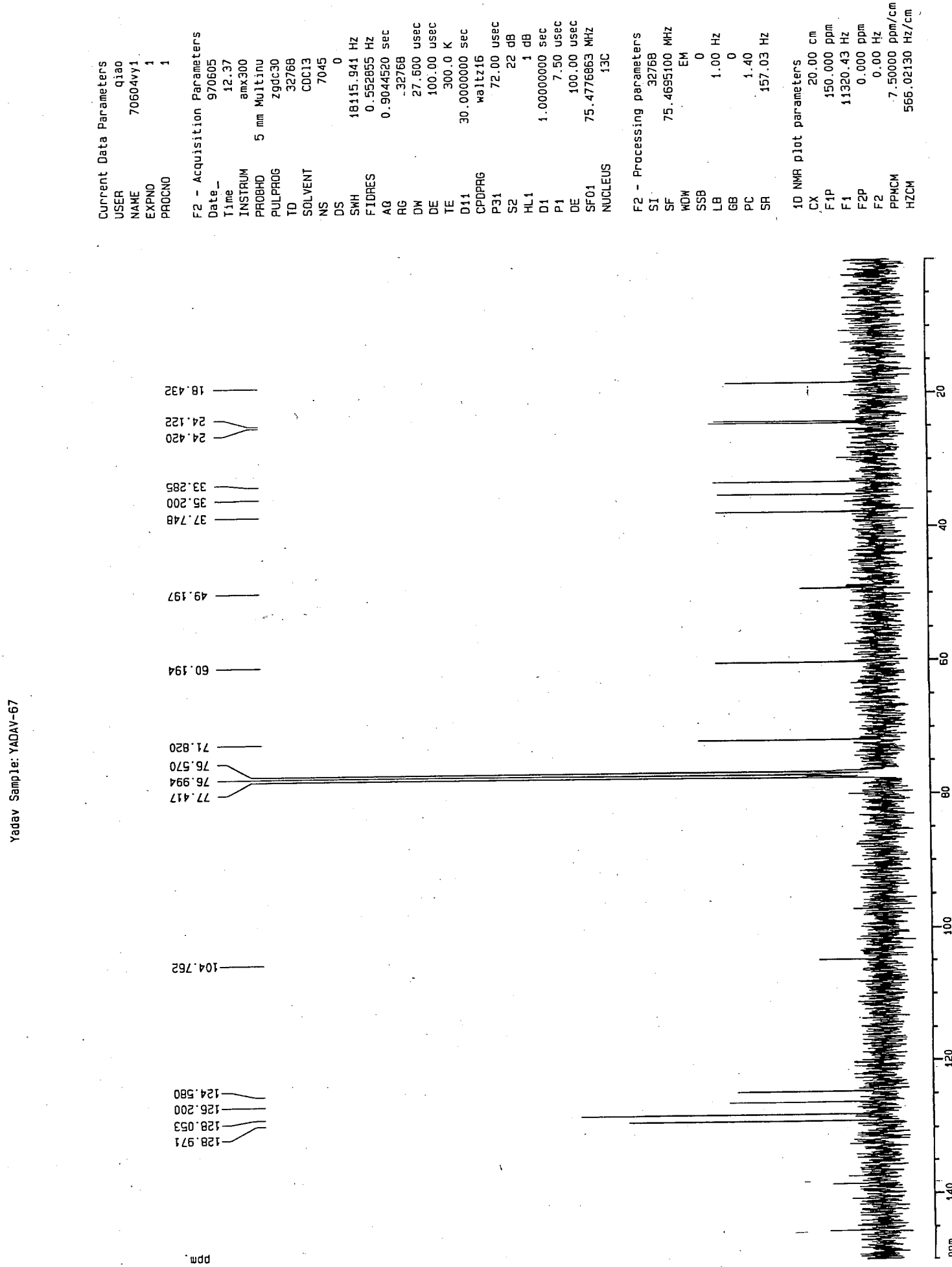


16 (R=Ph)
1H

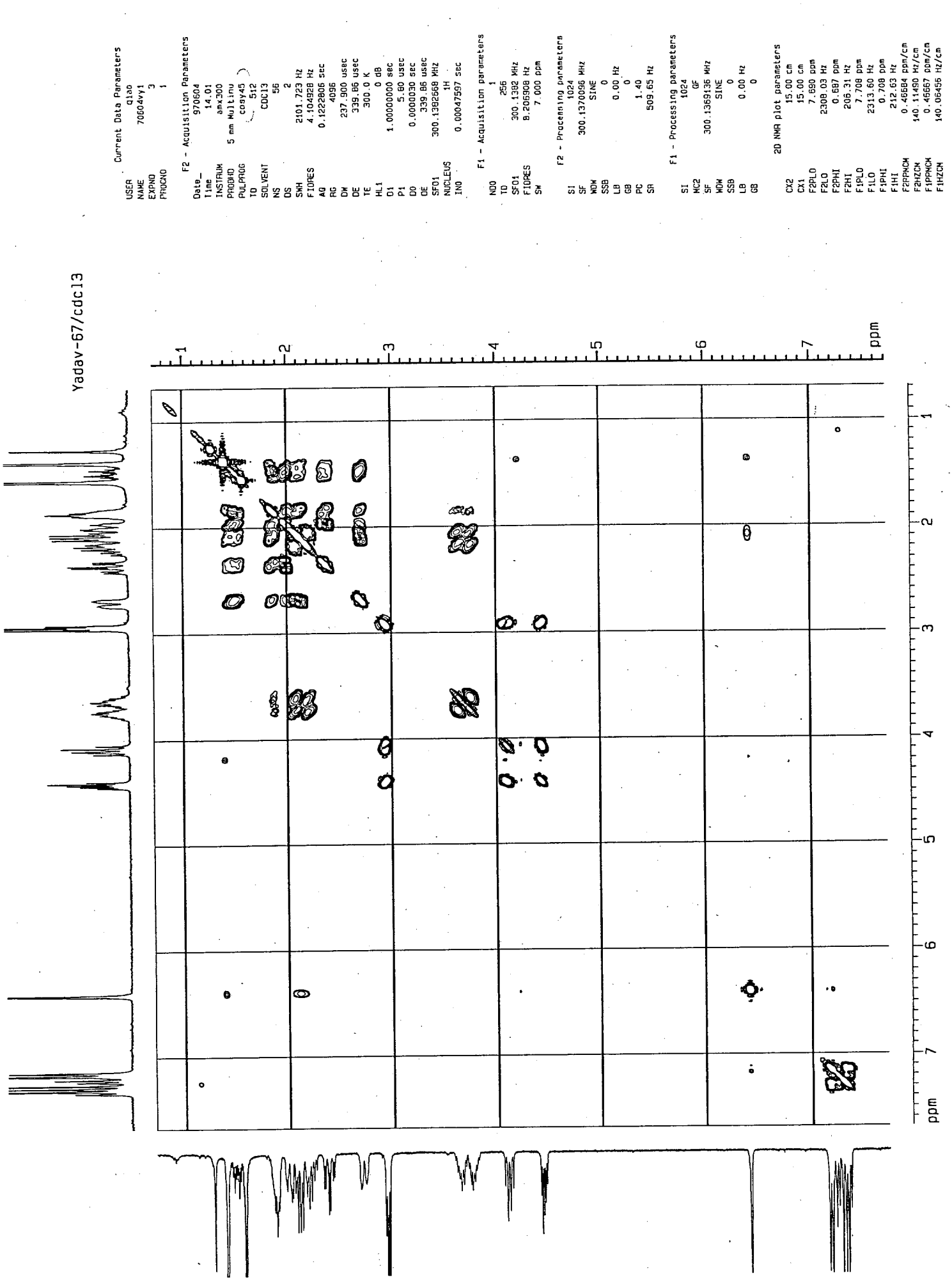




16 (R=Ph) 13C



16 (R=Ph)
COSY



Current Data Parameters

USER	qiao
NAME	70604vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	970604
Time	14.01
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	cosy45
TD	512
SOLVENT	CDCl3
NS	56
DS	2
SWH	2101.723 Hz
FIDRES	4.104928 Hz
AQ	0.1222806 sec
RG	4096
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.00000000 sec
P1	5.80 usec
D0	0.00000030 sec
DE	339.86 usec
SFO1	300.1382668 MHz
NUCLEUS	1H
INO	0.00047597 sec

F1 - Acquisition parameters

NDO	1
TD	256
SFO1	300.1382 MHz
FIDRES	8.206908 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370096 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
SR	509.65 Hz

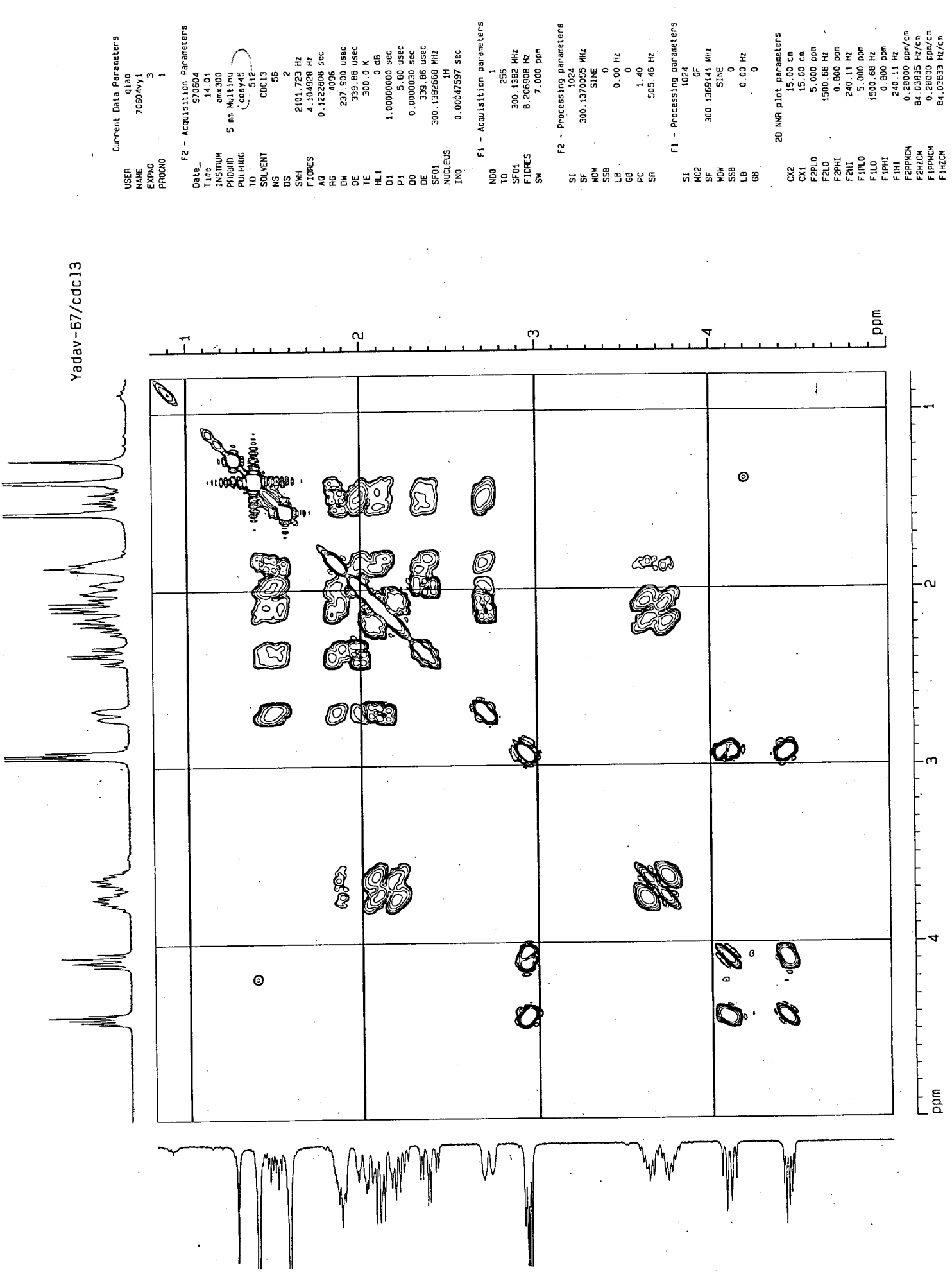
F1 - Processing parameters

SI	1024
MC2	QF
SF	300.1369136 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	7.690 ppm
F2LO	2308.03 Hz
F2PHI	0.697 ppm
F2HI	206.31 Hz
F1PLO	7.708 ppm
F1LO	2313.60 Hz
F1PHI	0.708 ppm
F1HI	212.63 Hz
F2PPMCM	0.46684 ppm/cm
F2HZCM	140.11490 Hz/cm
F1PPMCM	0.45667 ppm/cm
F1HZCM	140.06496 Hz/cm

16 (R=Ph) COSY



Current Data Parameters

USER	qiao
NAME	70604yy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Data_	970604
Time	14.01
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	(cosy45
TD	512
SOLVENT	CDCl3
NS	56
DS	2
SWH	2101.723 Hz
FIDRES	4.104928 Hz
AQ	0.1222806 sec
RG	4096
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.00000000 sec
P1	5.80 usec
D0	0.00000030 sec
DE	339.86 usec
SFO1	300.1392668 MHz
NUCLEUS	1H
INO	0.00047597 sec

F1 - Acquisition parameters

NDO	1
TD	256
SFO1	300.1382 MHz
FIDRES	8.206908 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370055 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
SA	505.45 Hz

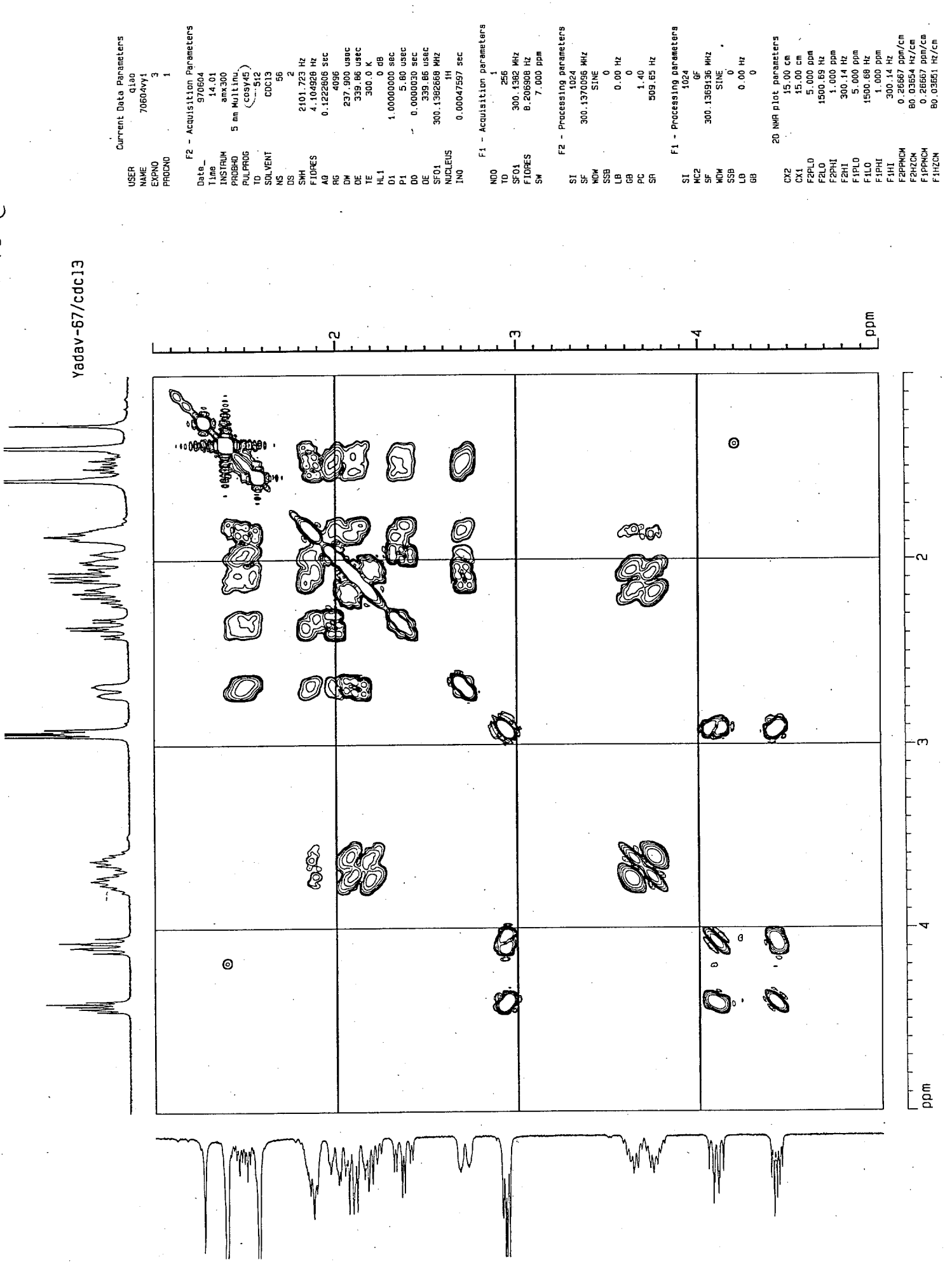
F1 - Processing parameters

SI	1024
MC2	QF
SF	300.1369141 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	5.000 ppm
F2LO	1500.68 Hz
F2PHI	0.800 ppm
F2HI	240.11 Hz
F1PLO	5.000 ppm
F1LO	1500.68 Hz
F1PHI	0.800 ppm
F1HI	240.11 Hz
F2PPMCM	0.28000 ppm/cm
F2HZCM	84.03935 Hz/cm
F1PPMCM	0.28000 ppm/cm
F1HZCM	84.03833 Hz/cm

16 (R = Bn) COSY



Current Data Parameters

USER	ajao
NAME	70604vy1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	970604
Time	14.01
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	(cosy45)
TD	512
SOLVENT	CDCl3
NS	56
DS	2
SWH	2101.723 Hz
FIDRES	4.104928 Hz
AQ	0.1222606 sec
RG	4096
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.00000000 sec
P1	5.80 usec
D0	0.0000030 sec
DE	339.86 usec
SFO1	300.1382668 MHz
NUCLEUS	1H
INO	0.00047597 sec

F1 - Acquisition parameters

NDO	1
TD	256
SFO1	300.1382 MHz
FIDRES	8.206908 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370096 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.40
SR	509.65 Hz

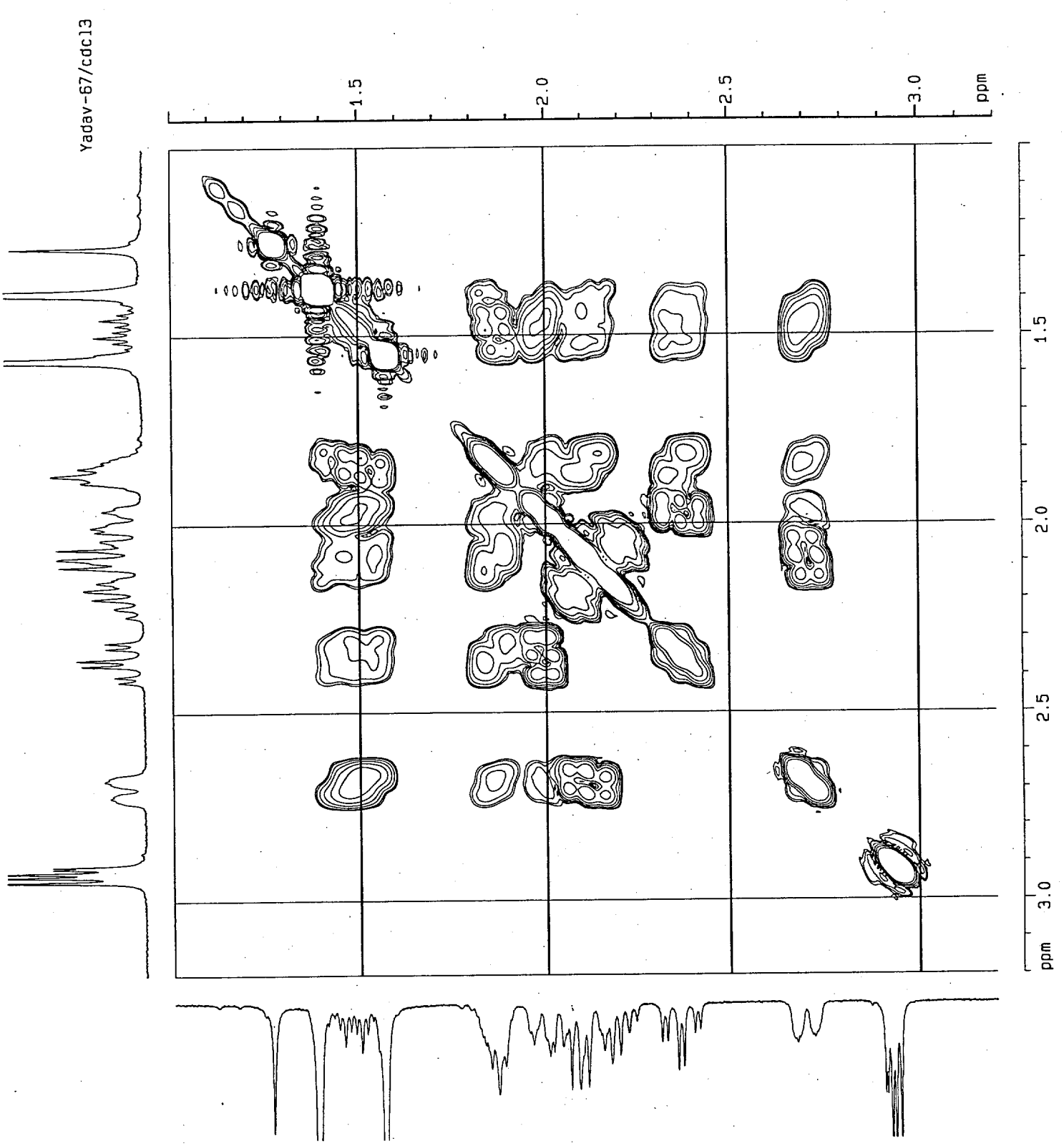
F1 - Processing parameters

SI	1024
MC2	QF
SF	300.1369136 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	5.000 ppm
F2LO	1500.69 Hz
F2PHI	1.000 ppm
F2HI	300.14 Hz
F1PLO	5.000 ppm
F1LO	1500.68 Hz
F1PHI	1.000 ppm
F1HI	300.14 Hz
F2PPMCM	0.26667 ppm/cm
F2HZCM	80.03654 Hz/cm
F1PPMCM	0.26667 ppm/cm
F1HZCM	80.03651 Hz/cm

16 (R=PhCOSY



Current Data Parameters
qiao
USER
NAME 70604vy1
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 970604
Time 14.01
INSTRUM amx300
PROBHD 5 mm Multinu
PULPROG (cosy45
TD 512
SOLVENT CDCl3
NS 56
DS 2
SWH 2101.723 Hz
FIDRES 4.104928 Hz
AQ 0.1222806 sec
RG 4096
DW 237.900 usec
DE 339.86 usec
TE 300.0 K
HL1 0 dB
D1 1.00000000 sec
P1 5.80 usec
D0 0.0000030 sec
DE 339.86 usec
SFO1 300.1382668 MHz
NUCLEUS 1H
INO 0.00047597 sec

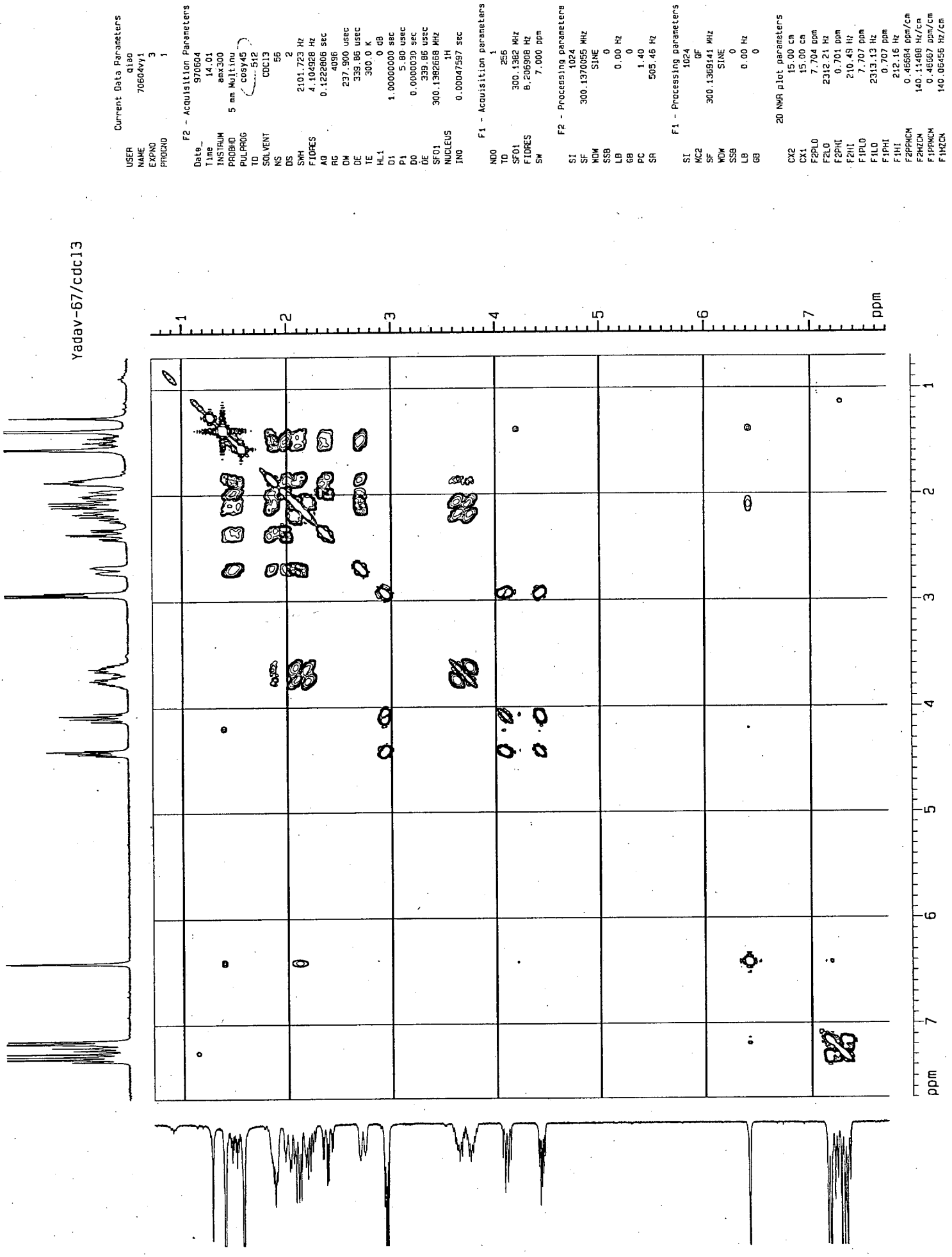
F1 - Acquisition parameters
NDO 1
TO 256
SFO1 300.1382 MHz
FIDRES 8.206908 Hz
SW 7.000 ppm

F2 - Processing parameters
SI 1024
SF 300.1370096 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
SR 509.65 Hz

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1369136 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PLO 3.200 ppm
F2LO 960.44 Hz
F2PHI 1.000 ppm
F2HI 300.14 Hz
F1PLO 3.200 ppm
F1LO 960.44 Hz
F1PHI 1.000 ppm
F1HI 300.14 Hz
F2PPMCM 0.14667 ppm/cm
F2HZCM 44.02010 Hz/cm
F1PPMCM 0.14667 ppm/cm
F1HZCM 44.02008 Hz/cm

16 (2-Ph) COSY



16 (R=H) ROESY

Yadav67/cdcl3 roesy

Current Data Parameters
USER qiao
NAME 70604yy1
EXPNO 4
PROCNO 1

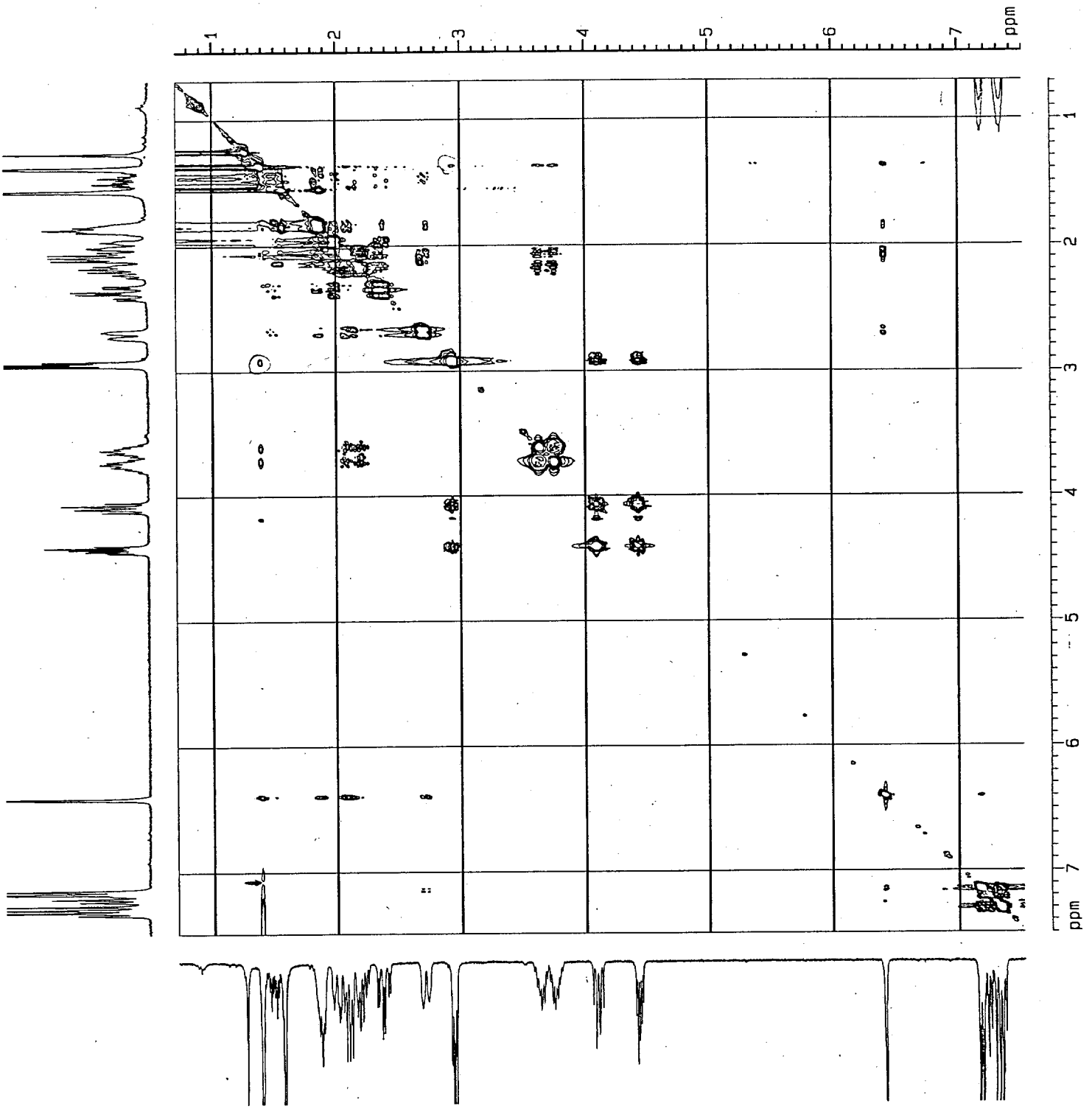
F2 - Acquisition Parameters
Date_ 970804
Time 18.47
INSTRUM am300
PROBHD 5 mm Multinu
PULPROG roesytp
TD 1024
SOLVENT cdcl3
NS 56
DS 4
SWH 2101.723 Hz
FIDRES 2.052464 Hz
AQ 0.2440854 sec
RG 8192
DW 237.900 usec
DE 339.86 usec
TE 300.0 K
HL1 0 dB
D1 1.50000000 sec
D12 0.0000200 sec
P1 5.80 usec
D13 0.0000040 sec
D0 0.0000030 sec
HL4 30 dB
P15 400000.00 usec
DE 339.86 usec
SFO1 300.1382668 MHz
NUCLEUS 1H
INO 0.00023799 sec

F1 - Acquisition parameters
NDO 2
TD 512
SFO1 300.1382 MHz
FIDRES 4.103452 Hz
SW 7.000 ppm

F2 - Processing parameters
SI 1024
SF 300.1370099 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40
SR 509.95 Hz

F1 - Processing parameters
SI 1024
MC2 TPPI
SF 300.1369139 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PLO 7.500 ppm
F2LO 2251.03 Hz
F2PHI 0.000 ppm
F2HI 206.01 Hz
F1PLO 7.500 ppm
F1LO 2251.03 Hz
F1PHI 0.707 ppm
F1HI 212.33 Hz
F2PPMCM 0.45424 ppm/cm
F2HZCM 136.33476 Hz/cm
F1PPMCM 0.45284 ppm/cm
F1HZCM 135.91292 Hz/cm



16 (R=PR) ROESY

Yadav67/cdcl3 roesy

Current Data Parameters

USER	qiao
NAME	70604yy1
EXPNO	4
PROCNO	1

F2 - Acquisition Parameters

Date_	970604
Time	10.47
INSTRUM	amx300
PROBHD	5 mm Multinu
PULPROG	roesytp
TD	1024
SOLVENT	cdcl3
NS	56
DS	4
SWH	2101.723 Hz
FIDRES	2.052464 Hz
AQ	0.2440054 sec
RG	8192
DW	237.900 usec
DE	339.86 usec
TE	300.0 K
HL1	0 dB
D1	1.50000000 sec
D12	0.0000200 sec
P1	5.80 usec
D13	0.0000040 sec
D0	0.0000030 sec
HL4	30 dB
P15	400000.00 usec
DE	339.86 usec
SFO1	300.1382658 MHz
NUCLEUS	1H
INO	0.00023799 sec

F1 - Acquisition parameters

NDO	2
TD	512
SFO1	300.1382 MHz
FIDRES	4.103452 Hz
SW	7.000 ppm

F2 - Processing parameters

SI	1024
SF	300.1370099 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.40
SR	509.95 Hz

F1 - Processing parameters

SI	1024
MC2	TPPI
SF	300.1369139 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	15.00 cm
CX1	15.00 cm
F2PLO	6.506 ppm
F2LO	1952.65 Hz
F2PHI	1.000 ppm
F2HI	300.14 Hz
F1PLO	6.504 ppm
F1LO	1952.20 Hz
F1PHI	1.000 ppm
F1HI	300.14 Hz
F2PPMCM	0.36706 ppm/cm
F2HZCM	110.16775 Hz/cm
F1PPMCM	0.35696 ppm/cm
F1HZCM	110.13731 Hz/cm