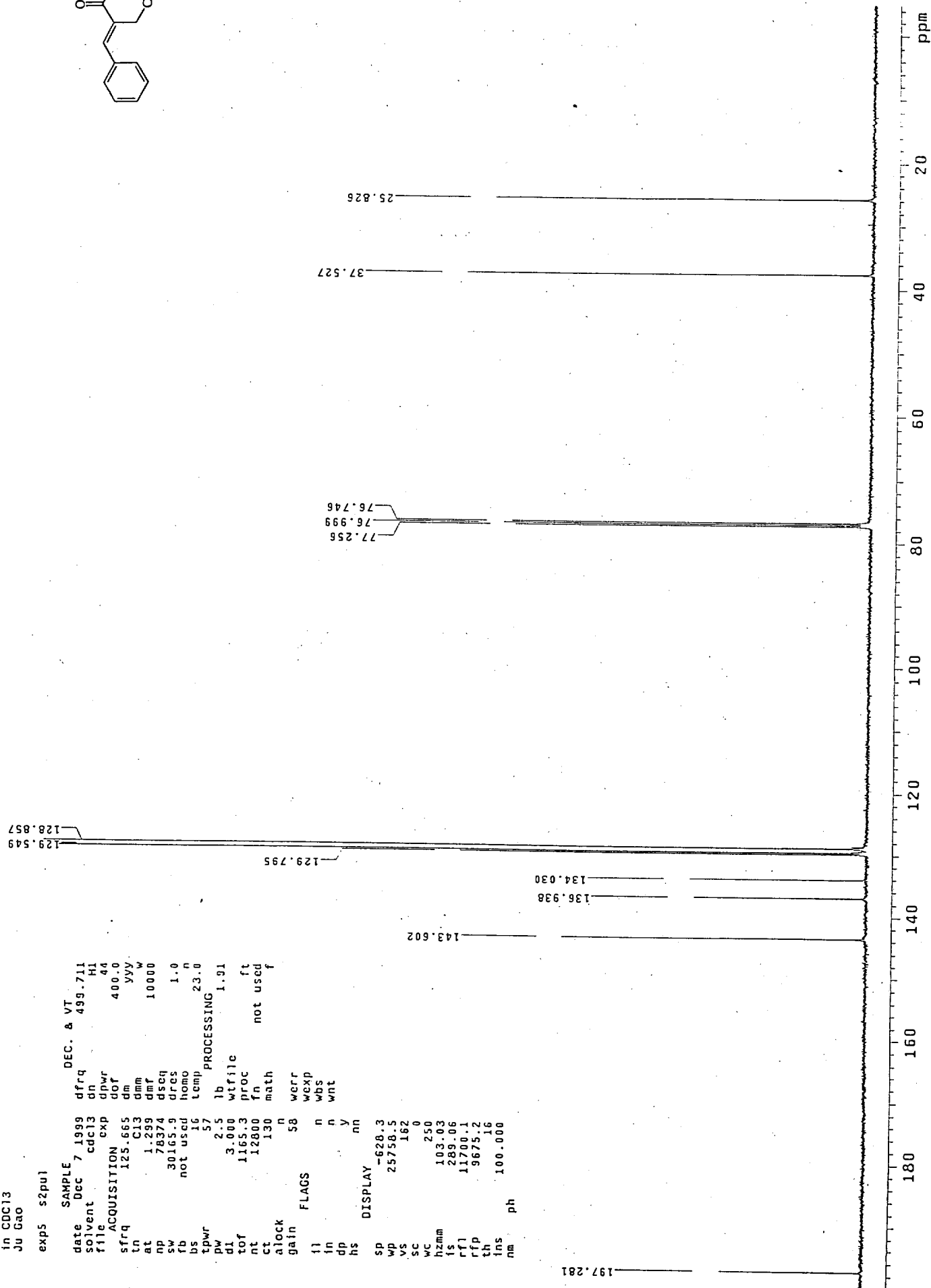


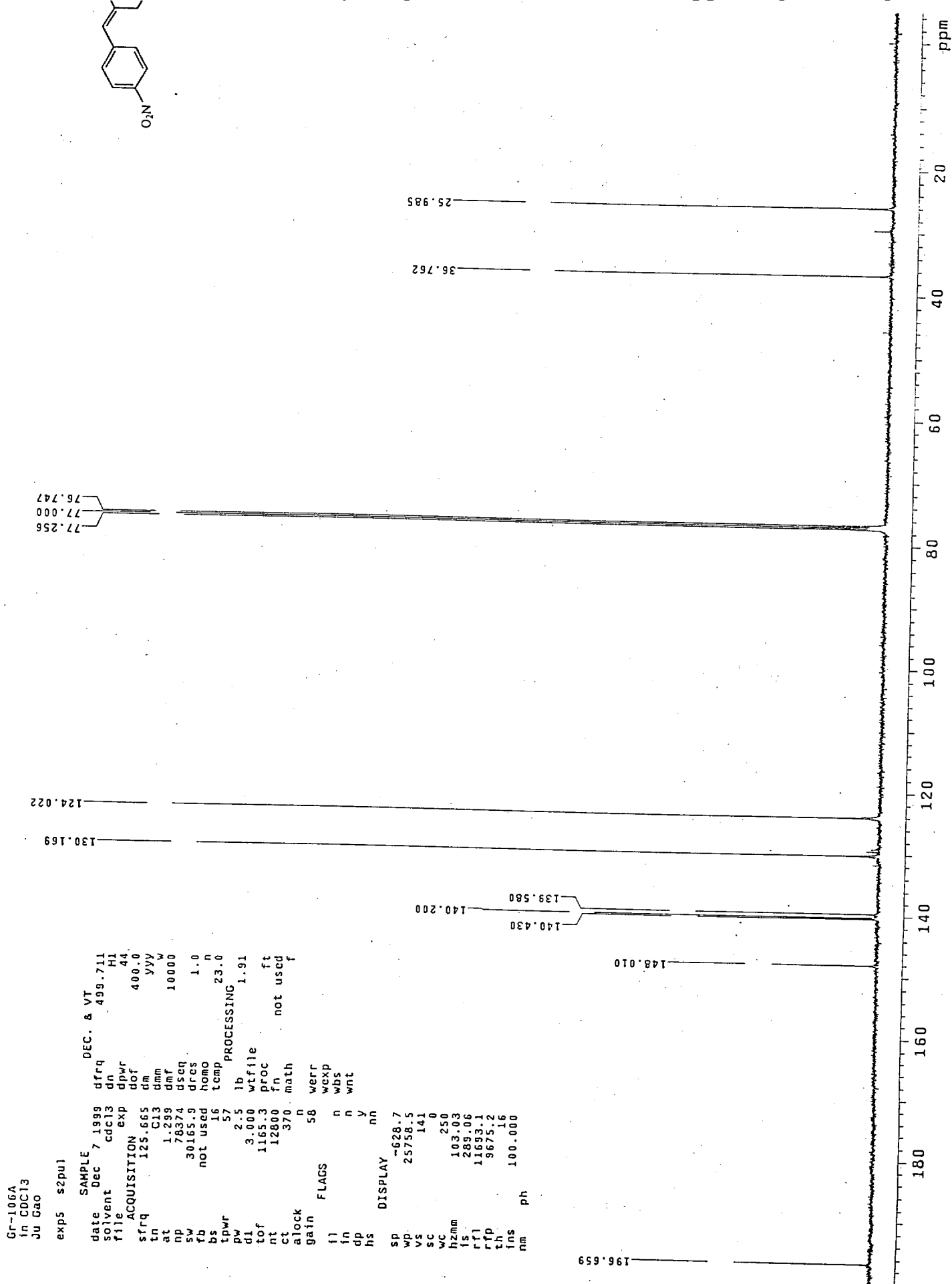
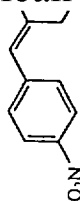
GR-111A
in CDCl3
Ju Gao

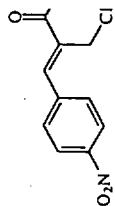
exp5 s2pul

SAMPLE
date Dec 7 1999
solvent cdcl3
file exp
ACQUISITION
sfrq 125.665
tn Cl3
at 1.299
np 78374
sw 30165.9
fb not used
bs 15
tpwr 57
pw 2.5
di 3.000
tof 1165.3
nt 12800
ct 130
alock n
gain 58
flags n
f1 n
in n
dp n
hs n
DISPLAY
sp -628.3
wp 25750.5
vs 162
sc 0
wc 250
hzmm 103.03
fs 289.06
rf1 11700.1
rfp 9675.2
th 16
ins 100.000
nm ph

DEC. & VT
dfrq 499.711
dn H1
dpwr 44
dof 400.0
dm yvy
dmm w
dseq 10000
dres 1.0
homo n
temp 23.0
PROCESSING
lb 1.91
wfile ft
proc not used
fn f
math f
werr
wexp
wbs
wnt



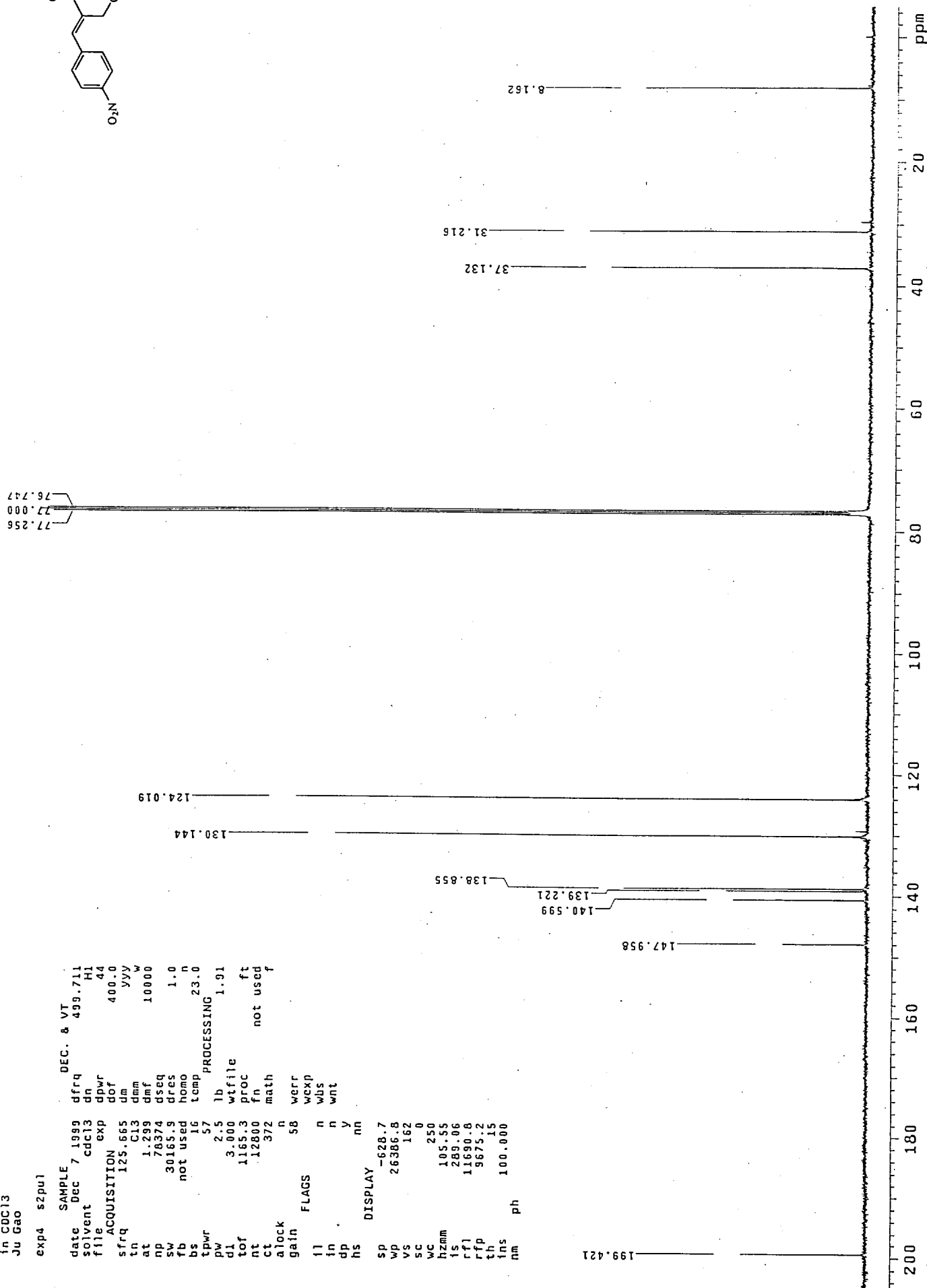


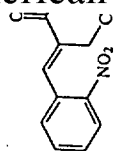


Gr-107A
in CDCl3
Ju Gao

exp4 s2pul

SAMPLE		DEC. & VT	
date	Dec 7 1999	dfrq	499.711
solvent	cdcl3	dn	H1
file	exp	dpwr	44
ACQUISITION		dof	400.0
sfrq	125.665	dm	yyv
tn	1.299	dmm	10000
at	70374	dmf	
pp	30165.9	dscq	1.0
sw	not used	dres	23.0
fb	16	homo	
bs	57	temp	
tpwr	2.5	lb	1.91
pwr	3.000	wfile	ft
dl	1165.3	proc	not used
tof	12800	fn	
nt	372	math	
ct	n	werr	
alock	58	wexp	
gain	n	wbs	
fl	n	wnt	
in	n		
dp	nn		
hs			
DISPLAY		sp	-628.7
wp	26386.8	vs	162
sc	0	wc	250
hzm	105.55	ls	289.06
rf1	11690.6	rfl	9675.2
th	15	ins	100.000
nm		ph	

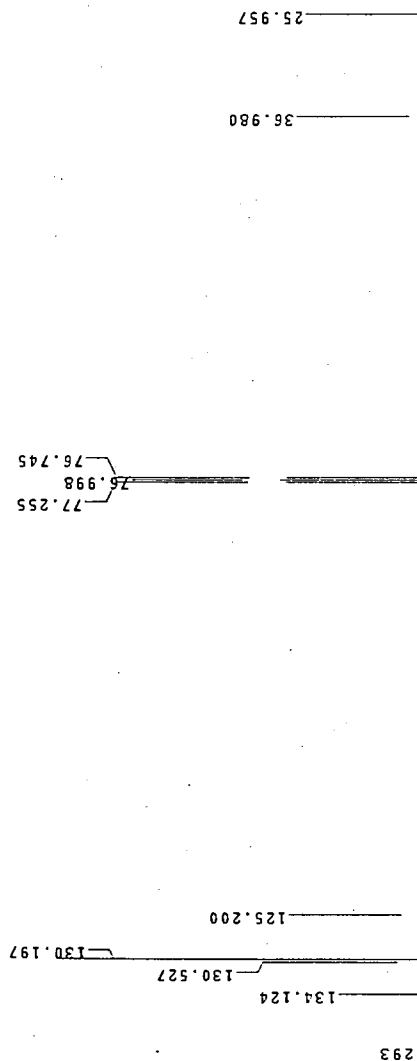




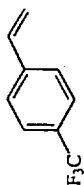
Gr-108A
in CCl3
Ju Gao
exp4 s2pul

SAMPLE 7 1999
date Dec 7 1999
solvent cdc13
file file
ACQUISITION exp
sfrq 125.665
tn C13
at 1.299
np 78374
sw 30165.9
fb not used
bs 16
tpwr 57
pw 2.5
p1 3.000
tof 1165.3
nt 12800
ct 798
alock n
gain 58
FLAGS
l1 n
dp n
hs y
DISPLAY nm
sp -1256.8
wp 26386.8
vs 162
wc 0
hzm 250
is 105.55
rf 289.06
rfl 11698.8
rfp 5675.2
th 19
ins 100.000
nm ph

DEC. & VT
dfrq 499.711
dn H1
dpwr 44
dof 400.0
dm yvy
dmm 10000
dmf
dseq
dres 1.0
dtemp 23.0
lb
wfile 1.91
proc ft
fn not used
math
werr
wexp
wbs
wnt



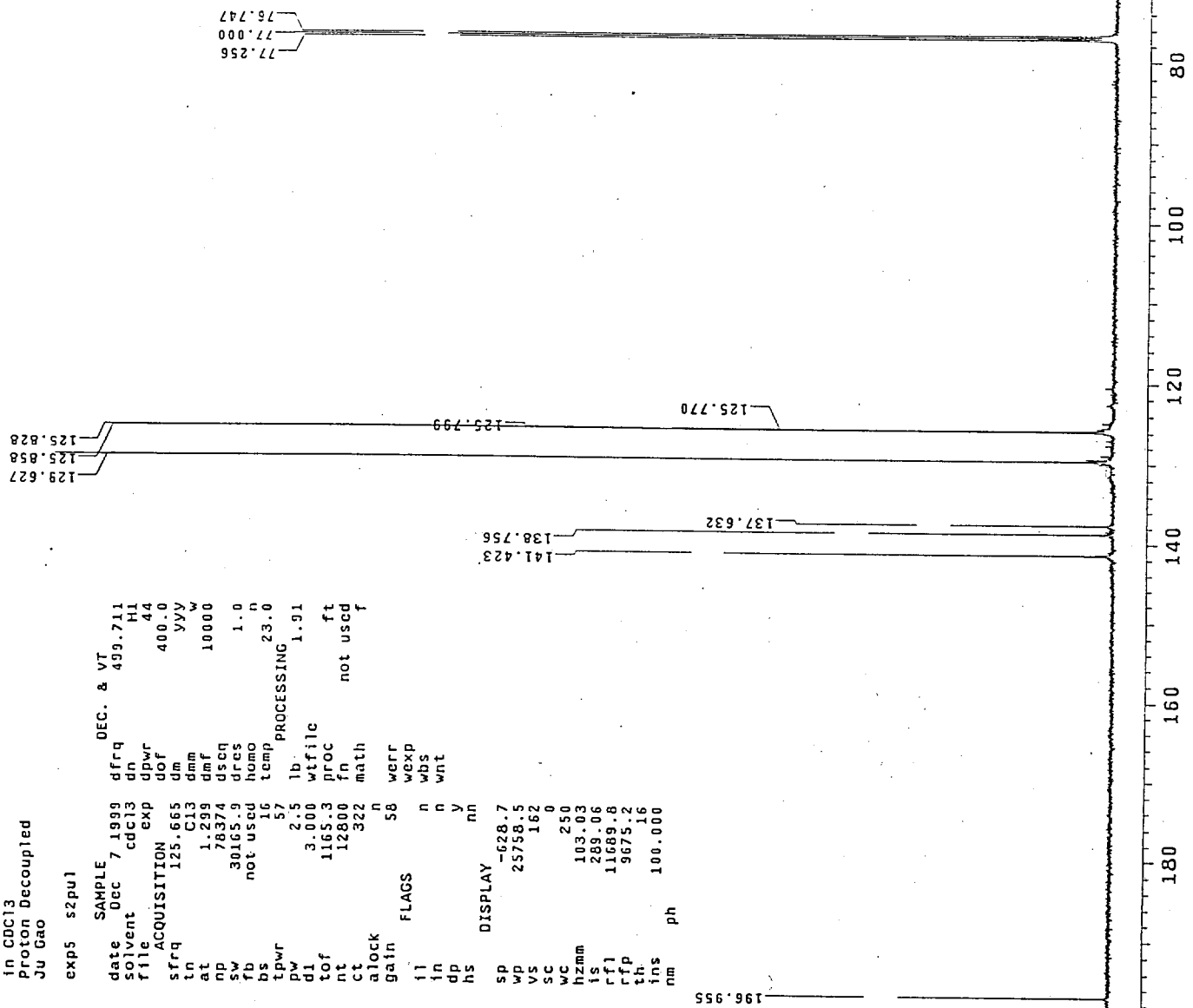
180 160 140 120 100 80 60 40 20 0 ppm

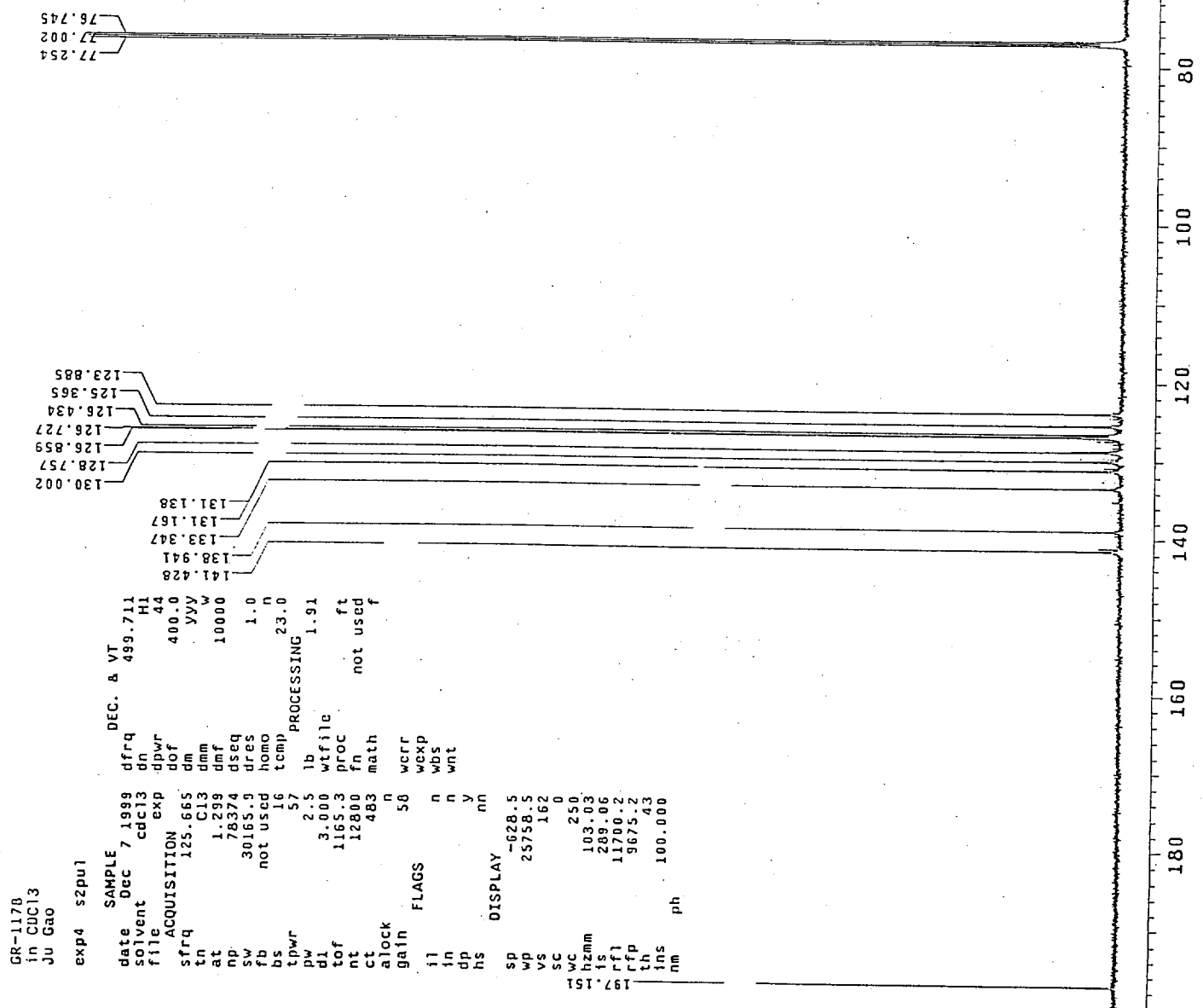
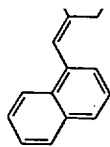


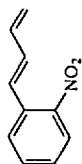
GR-109
In CDCl3
Proton Decoupled
Ju Gao

exp5 szpu1

date	Dec 7 1999	DEC. & VT	dfrq	499.711
solvent	cdcl3	dn	H1	44
file	exp	dpwr		400.0
ACQUISITION				
sfrq	125.665	dm	yyy	w
in	Cl3	dmm		10000
at	1.299	dmc		
np	78374	dscq		
sw	30165.9	dres	1.0	
rb	not used	homo	n	
bs	16	temp	23.0	
tpwr	57	PROCESSING		
pw	2.5	lb	1.91	
d1	3.000	wtfile		
tof	1165.3	proc	ft	
nt	12800	fn	not used	
ct	322	math	f	
alock	n			
gain	58	werr		
FLAGS				
fl	n	wexp		
in	n	wbs		
dp	n	wnt		
hs	nn			
DISPLAY				
sp	-628.7			
wp	25758.5			
vs	162			
sc	0			
wc	250			
hzmm	103.03			
ls	289.06			
rfl	11689.8			
rfp	9675.2			
th	16			
ins	100.000			
nm				
ph				





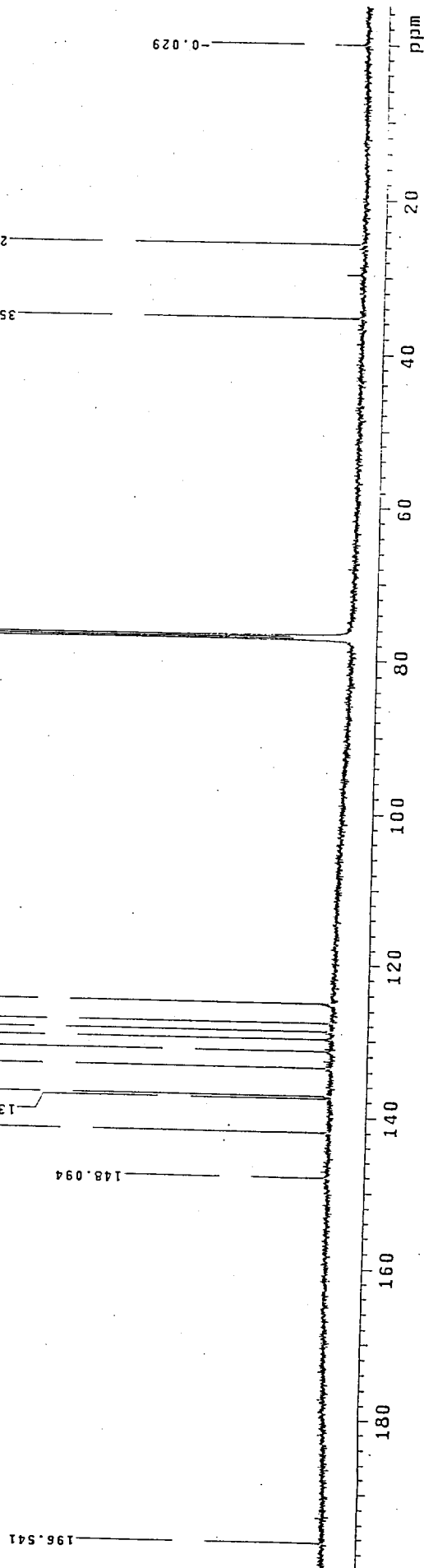


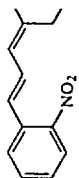
GR-118
in CDCl3
Indirect Probe
Ju Gao

exp3 s2pul

SAMPLE DEC. & VT
date Dec 9 1999 dfrq 499.711
solvent cdc13 dn 42
file 42
ACQUISITION exp dpwr 400.0
sfrq 125.665 dm 10000
tn c13 dmm w
at 1.299 dmf
np 78374 dseq
sw 30165.9 dres 1.0
fb not used homo n
bs 16 temp 23.0
tpwr 62
pw 4.0 lb
d1 3.000 wfile 1.91
tof 1165.3 proc ft
nt 12800 fn not used
ct 12800 math f
a1ock n
gain 58 werr
fl1 n wexp
in n wbs
dp n wnt
hs nn
DISPLAY
sp -628.7
wp 25758.5
vs 443
sc 0
wc 250
hzmm 103.03
ls 289.06
rfl 11687.5
rfp 9675.2
th 100.000
ins
nm ph

PROCESSING 23.0

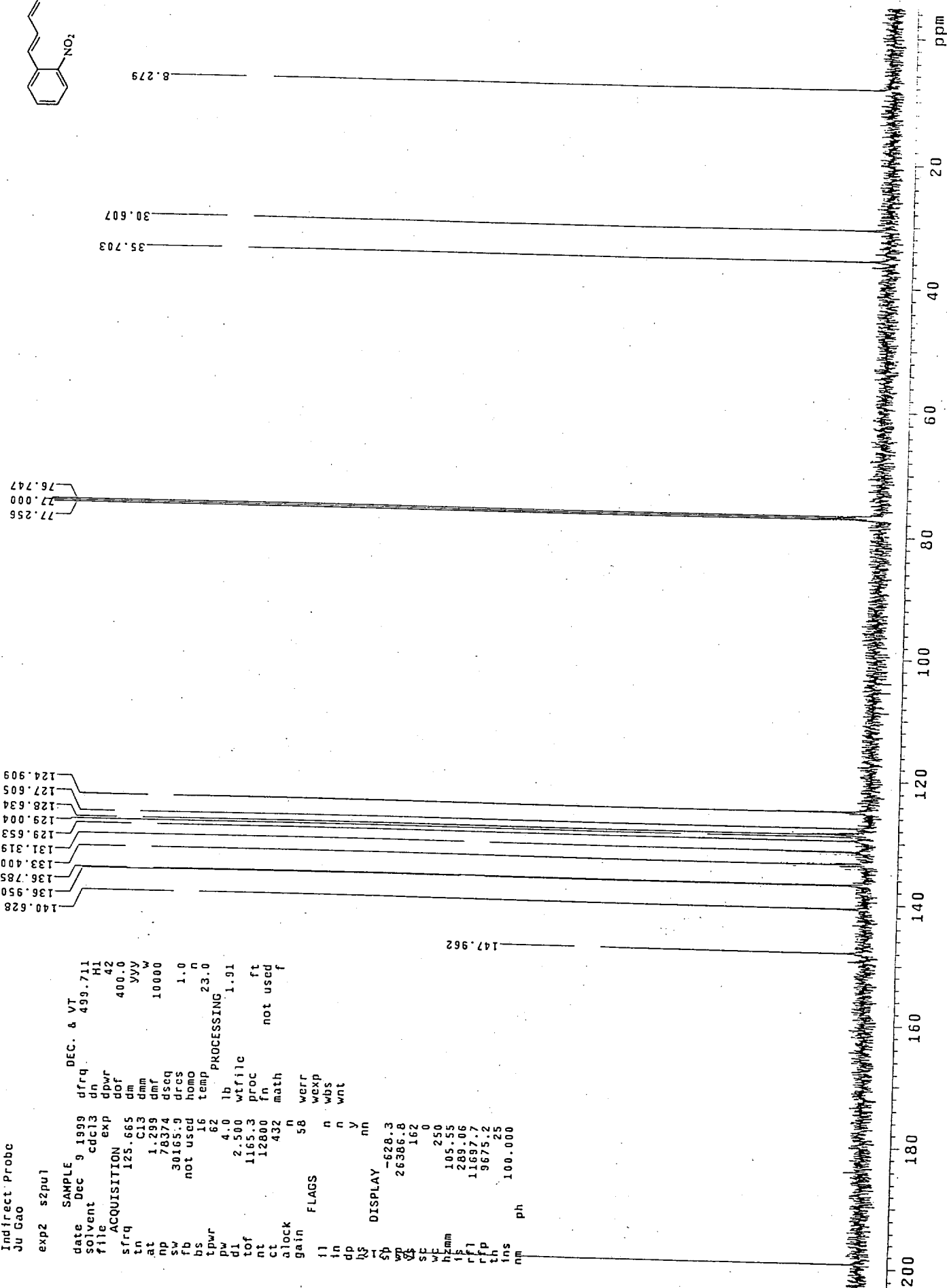


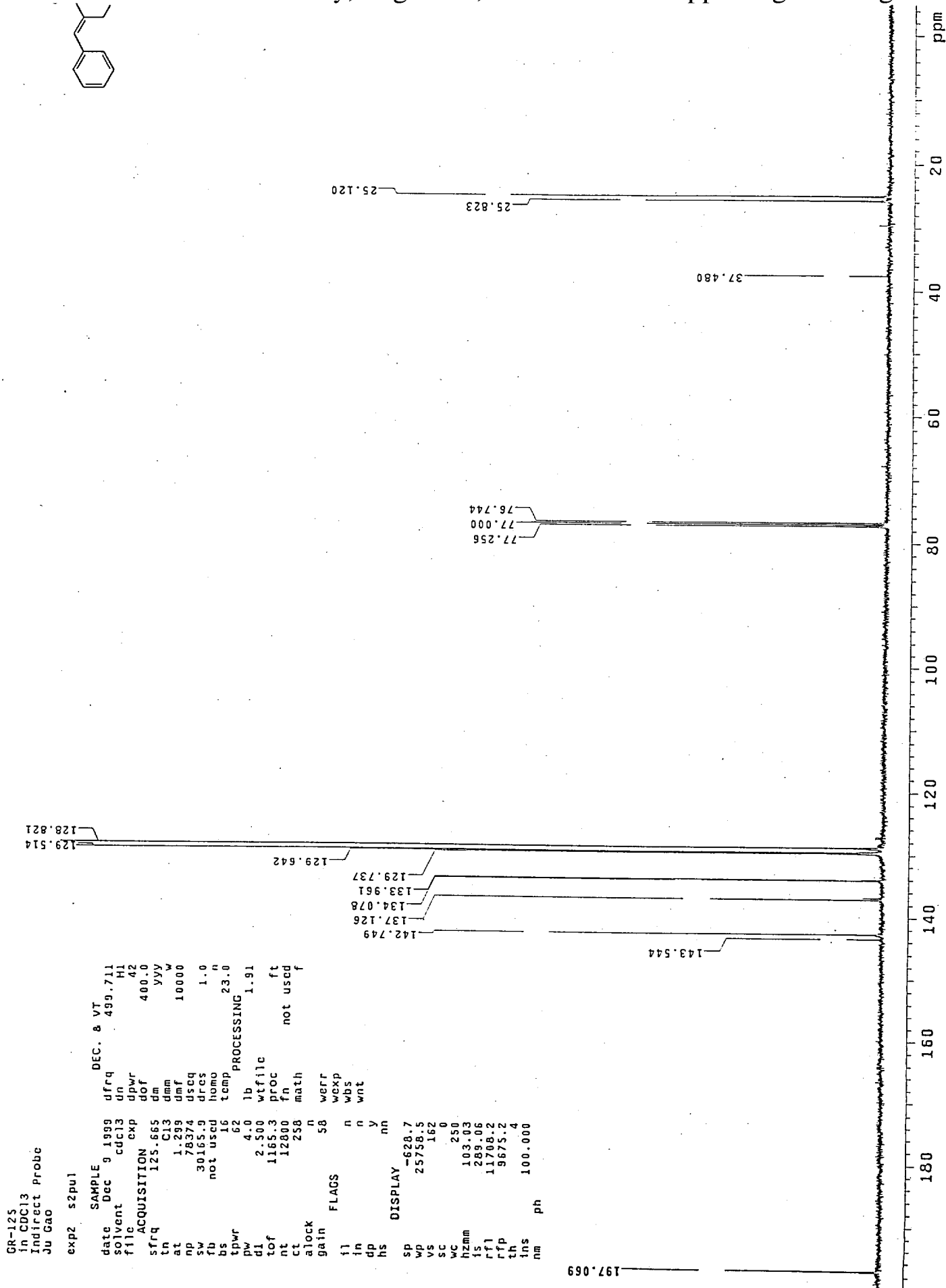
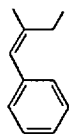


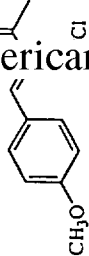
GR-121A
in CDCl3
Indirect Probe
Ju Gao

exp2 s2pu1

SAMPLE		DEC. & VT	
date	Dec 9 1999	dfrq	499.711
solvent	cdcl3	dn	H1
file	exp	dpwr	42
ACQUISITION		dof	400.0
sfrq	125.665	dm	yyv
tn	C13	dmm	10000
at	1.299	dmf	
np	78374	dseq	
sw	30165.9	dres	
fb	not used	homo	1.0
bs	16	temp	23.0
tpwr	62	PROCESSING	
pw	4.0	lb	1.91
d1	2.500	wtfile	
tof	1165.3	proc	ft
nt	12800	fn	not used
ct	432	math	f
alock	n	werr	
gain	58	wexp	
fl	n	wbs	
in	n	wnt	
bs	y		
DISPLAY			
sp	-628.3		
wp	26386.8		
vs	162		
sc	0		
se	250		
h2mm	105.55		
ls	289.06		
rfl	11637.7		
rff	9675.2		
th	25		
ins	100.000		
nm	ph		



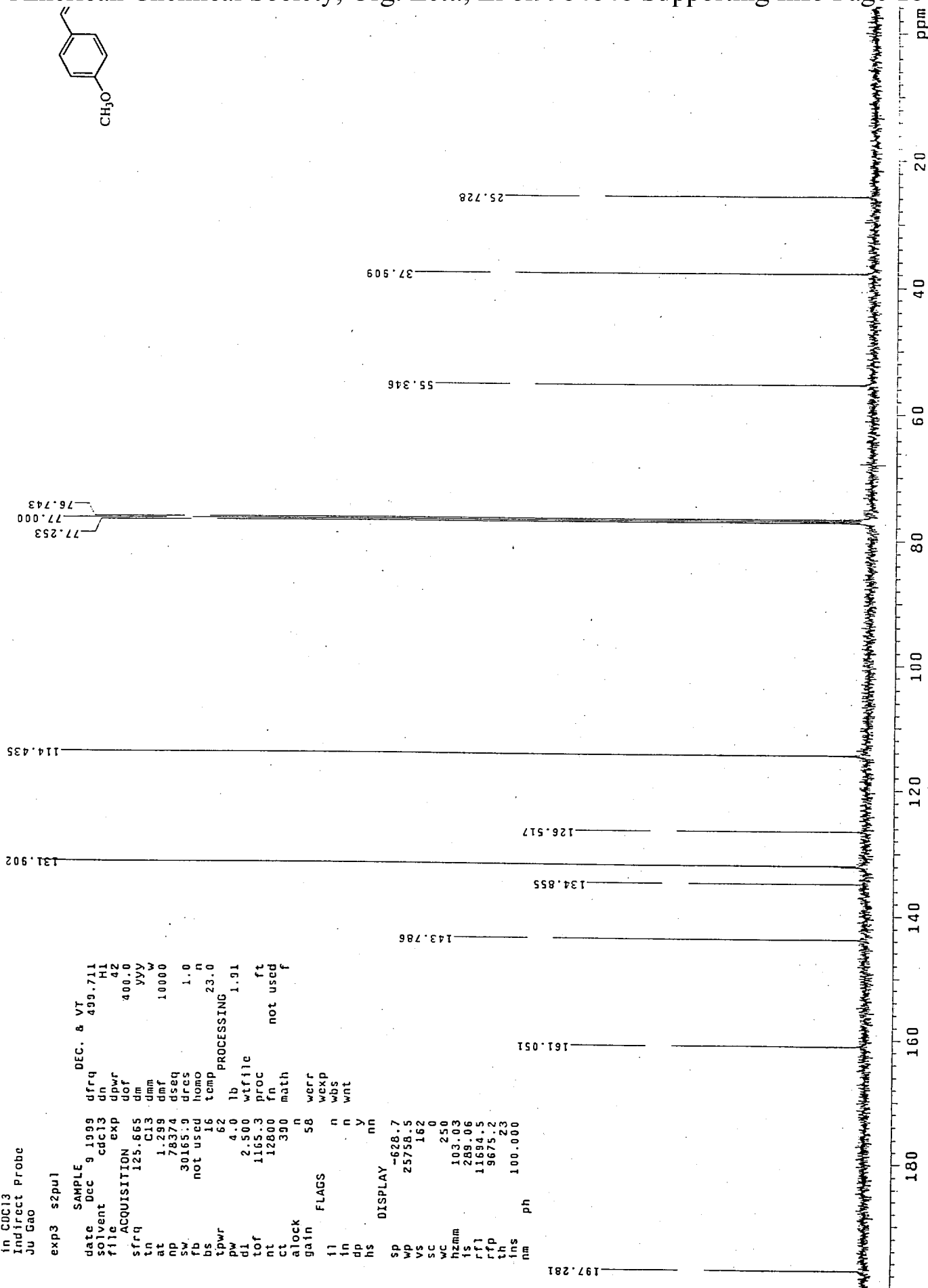


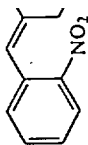


GR-126
in CDCl3
Indirect Probe
Ju Gao

exp3 s2pul

SAMPLE		DEC. & VT	
date	Dec 9 1999	dfrq	499.711
solvent	cdcl3	dn	H1
file	exp	dpwr	42
ACQUISITION		dof	400.0
sfrq	125.665	dm	yyy
tn	C13	dmm	W
at	1.299	dmf	10000
np	78374	dseq	
sv	30165.9	dres	1.0
fb	not used	homo	n
bs	16	temp	23.0
tpwr	62	PROCESSING	
pw	4.0	lb	1.91
d1	2.500	wfile	
tof	1165.3	proc	ft
nt	12800	fn	not used
ci	390	math	f
alock	n		
gain	58	werr	
FLAGS		wexp	
fl	n	wbs	
dp	n	wnt	
hs	y		
DISPLAY		nn	
sp	-628.7		
wp	25758.5		
vs	162		
sc	0		
wc	250		
hzmm	103.03		
fs	288.06		
rfl	11894.5		
rff	9675.2		
th	23		
ins	100.000		
nm			
ph			





GR-127
in CDCl₃
Indirect Probe
Ju Gao

expl s2pul

SAMPLE DEC. & VT
date Dec 9 1999 dfrq 499.711
solvent cdcl3 dn H1
file exp 42
ACQUISITION
sfrq 125.665 dm 400.0
tn C13 dmm w
at 1.299 dmf 10000
np 78374 dseq
sw 30165.9 dres 1.0
fb not used homo 23.0
bs 16 temp
tpwr 62
pw 4.0 lb 1.91
dl 2.500 wf file
tof 1165.3 proc ft
nt 12800. fn not used
ct 567 math
gain n
alock n
FLAGS
fl n
in n
dp n
hs nn
DISPLAY
sp -628.7
wp 25758.5
vs 162
sc 0
wc 250
hzmm 103.03
is 289.06
sfrfl 11698.6
crfp 9675.2
th 16
ins 100.000
nm ph

134.096
130.525
130.334
130.195
130.092
129.873
125.231

139.555
137.939

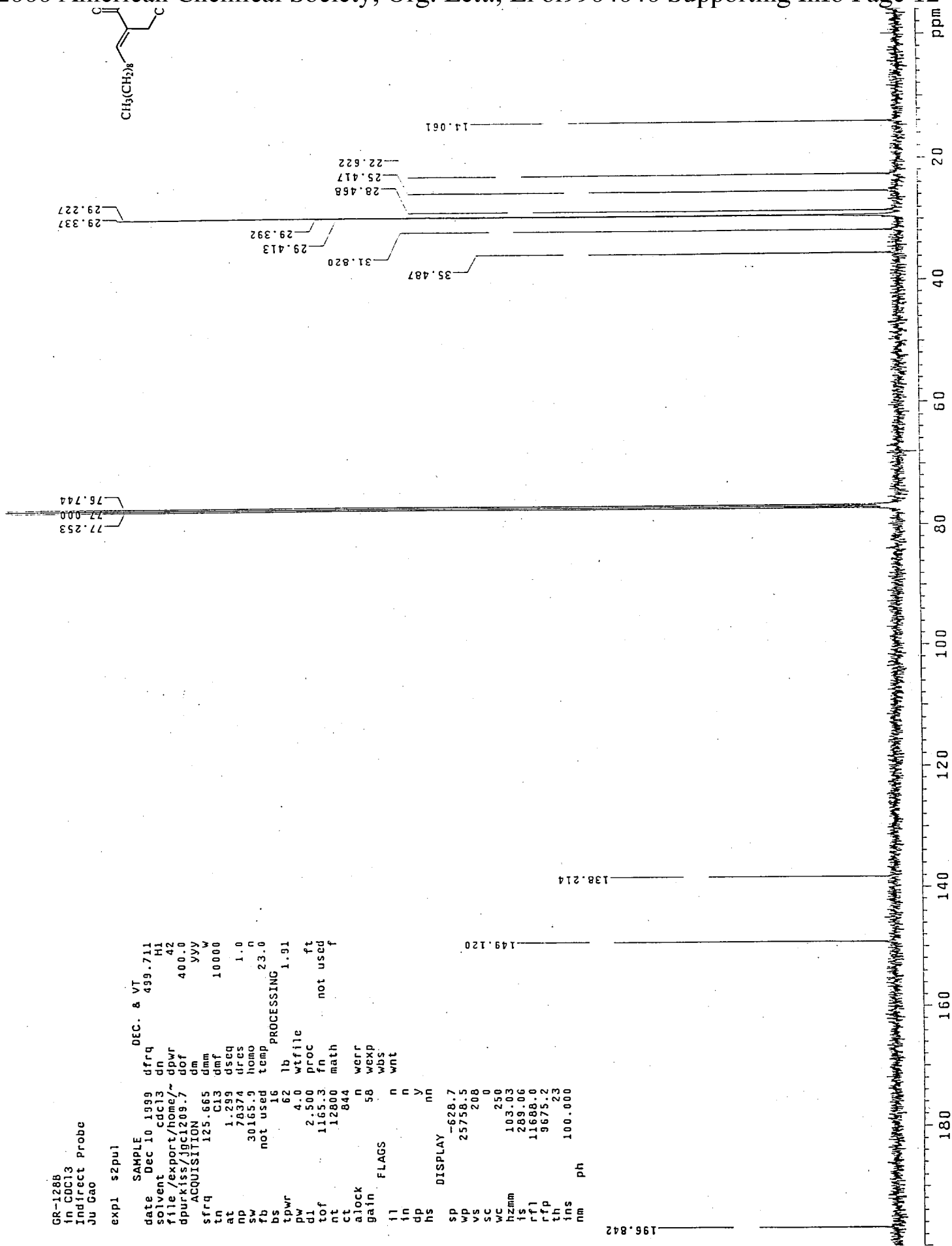
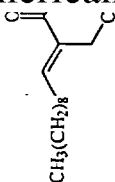
146.929
140.276

36.978

25.992

23.929

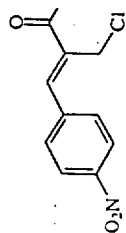
180 160 140 120 100 80 60 40 20 ppm



GR-128B
in CDCl₃
Indirect Probe
Ju Gao

```

exp1 $2pul
SAMPLE
date Dec 10 1999 dfrq 499.711
solvent cdcl3 dn H1
file /export/home/~dpwr 42
dpwr 400.0
ACQUISITION
sfrq 125.665 dnm 10000
tn 1.299 dscq 1.0
np 78374 dres 1.0
sw 30165.9 homo 23.0
fb not used temp 23.0
bs 16 PROCESSING
tpwr 62 lb 1.91
pw 4.0 wfile ft
dl 2.500 proc ft
tof 1165.3 fn not used f
nt 12800 math
ct 844
gain 58 werr
alock n wexp
flags n wbs
il n wnt
in n
un n
hs nn
DISPLAY
sp -628.7
wd 25758.5
sc 208
wc 250
hzmm 103.03
fs 289.06
rfl 11688.0
rfp 9675.2
th 23
ins 100.000
nm ph
    
```



Gr-106A
in CDCl3
Ju Gao

exp8 s2pu1

SAMPLE		DEC. & VT		H1	
date	Dec 7 1999	dn	dof	0	0
solvent	cdcl3	dm	n	c	
file	exp	dmm	200		
ACQUISITION					
sfrq	499.710	dmf	23.0		
tn	5.981	temp	32768		
np	89836	fn			
sw	7509.6	math			
fb	not used				
pw	5.0	werr			
tpwr	5.0	wexp			
di	62	wbs			
tof	1.000	wnt			
nt	-120.3				
ct	1	sp	-250.3		
alock	1	wp	5246.6		
gain	20	vs	151		
flags		sc	0		
tl	n	wc	250		
in	n	hzmm	20.99		
dp	y	is	567.26		
hs	nn	rfl	1373.8		
		rff	0		
		th	34		
		ins	2.000		
		nm			
		ph			

DISPLAY

7.714

8.324

4.381

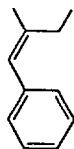
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0.97
2.00

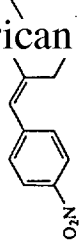
1.99

2.95

0 1 2 3 4 5 6 7 8 9 ppm



Society, Org. Lett., Li ol9904040



1.35727
1.23175
1.18594

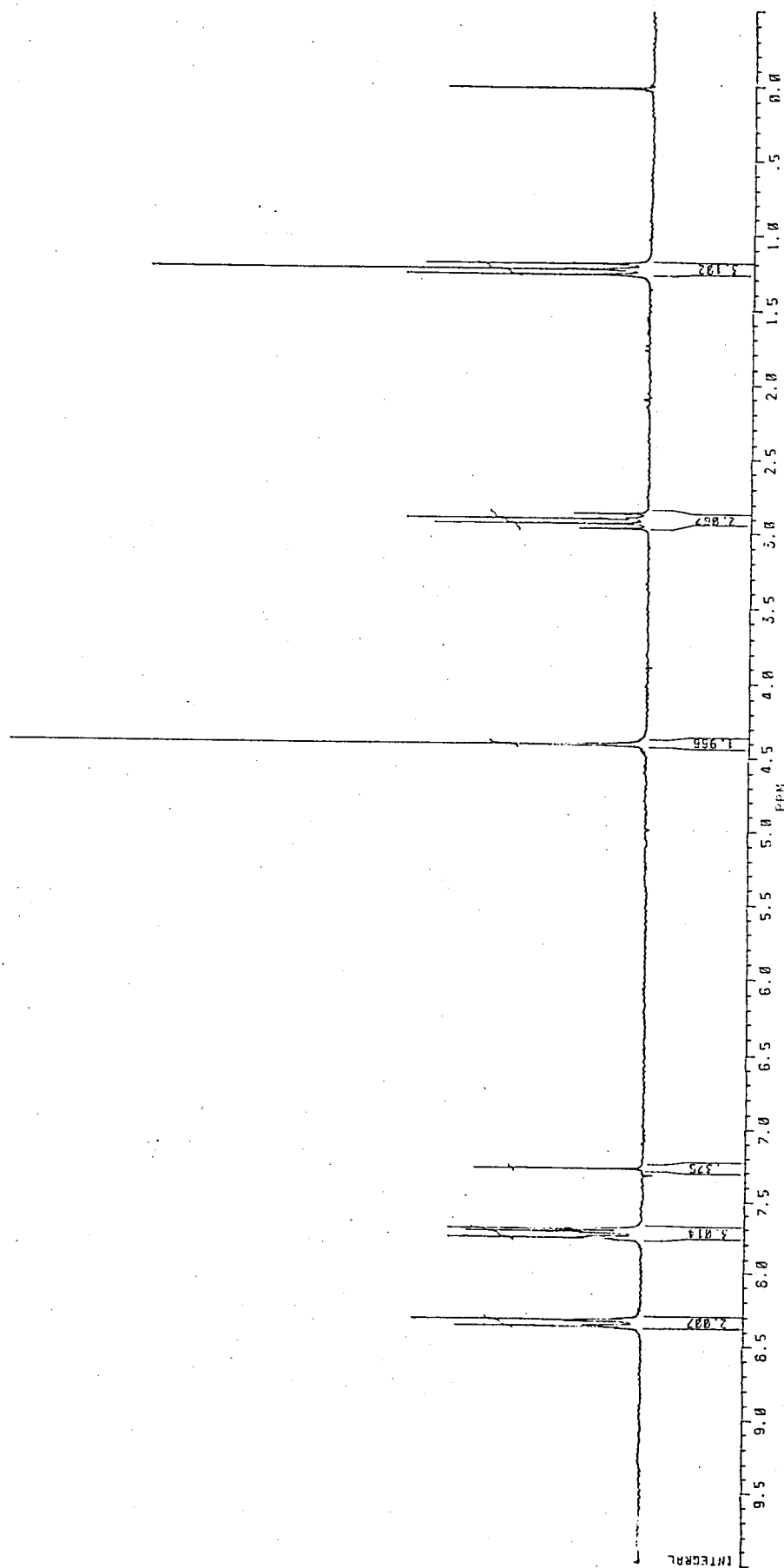
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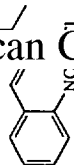
4.49731

7.25890
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7.06727
6.98872
6.90814

8.57274
8.47511
8.38729
8.30572

ppm





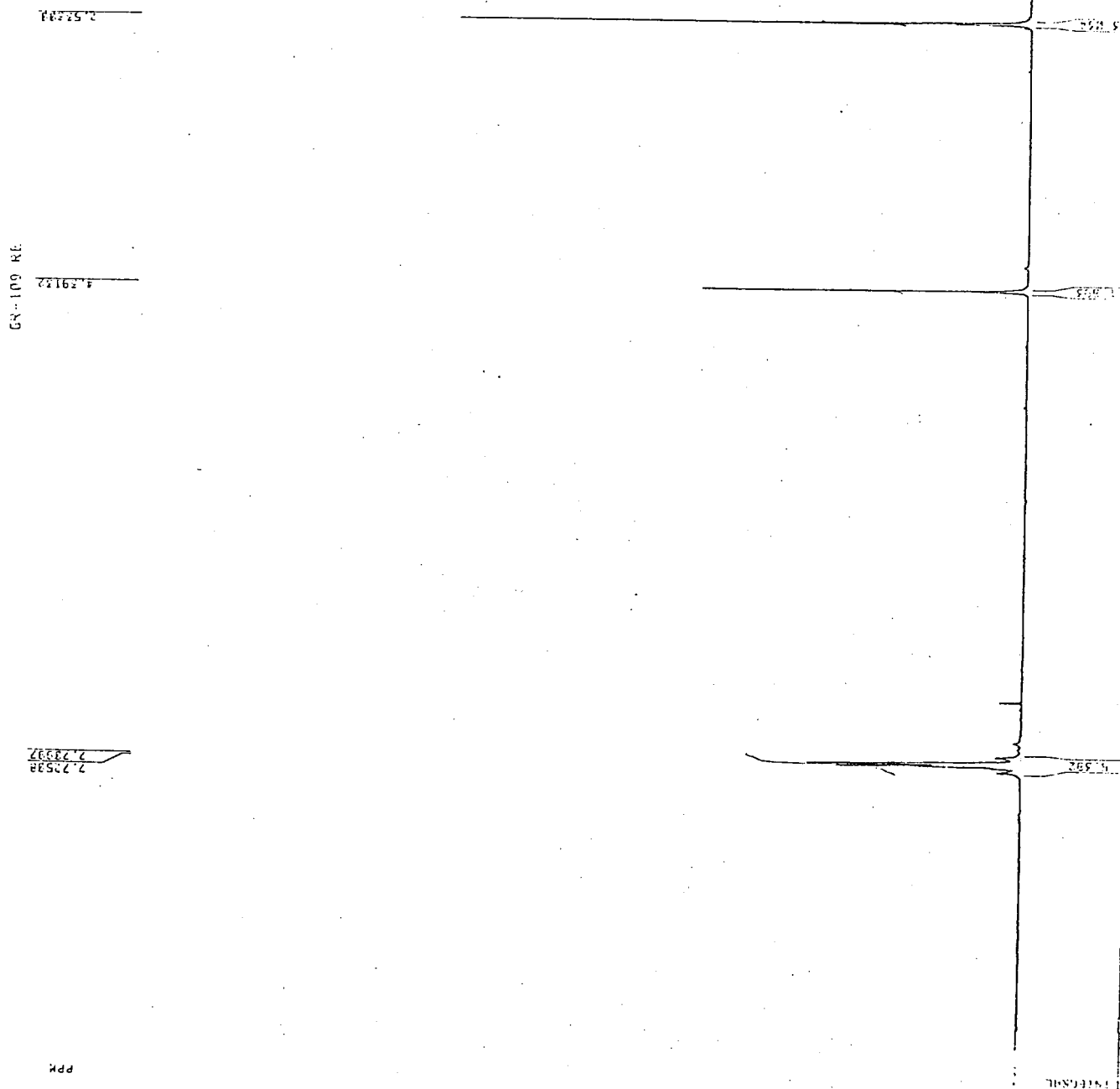
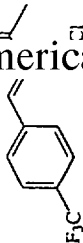
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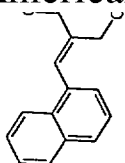
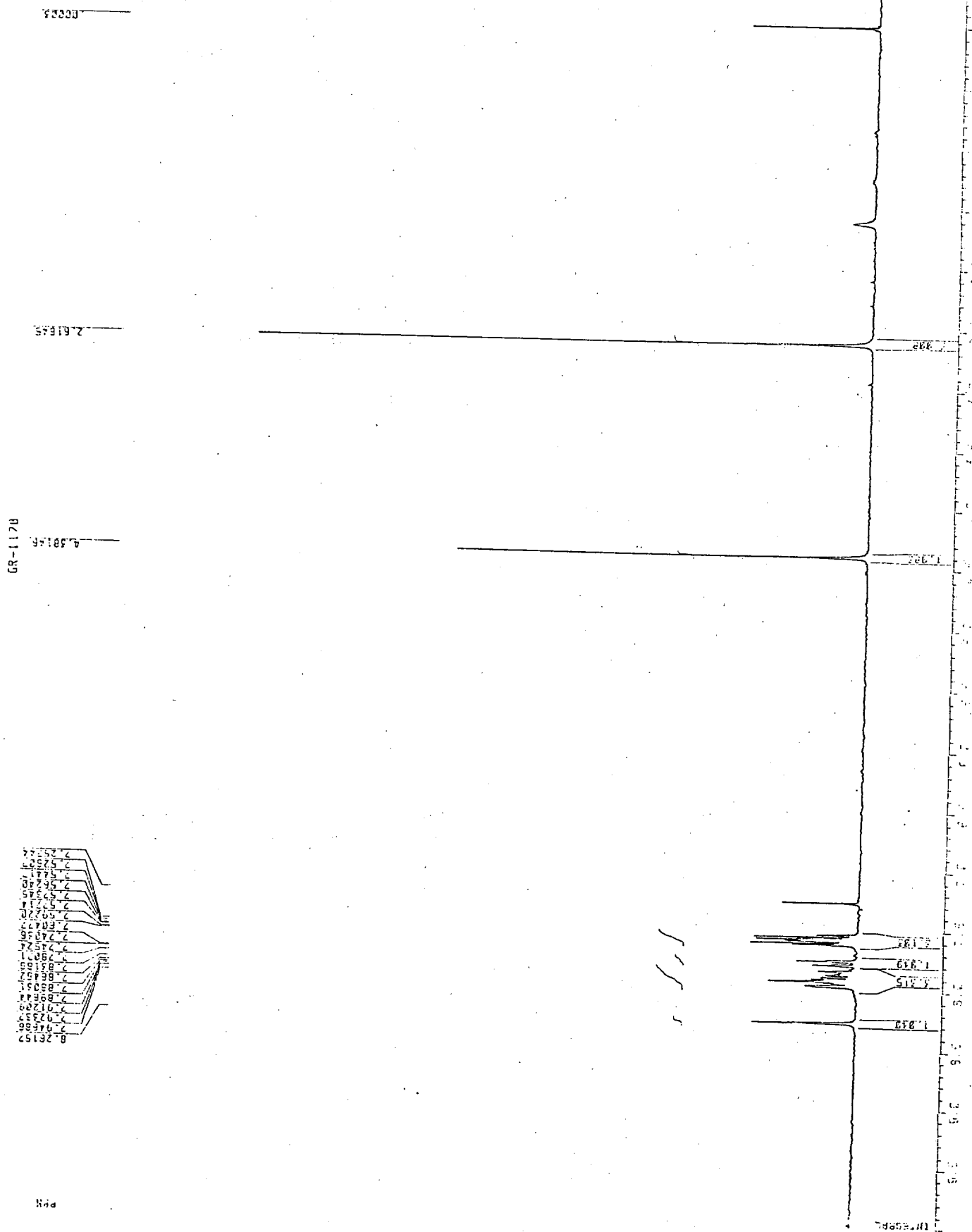
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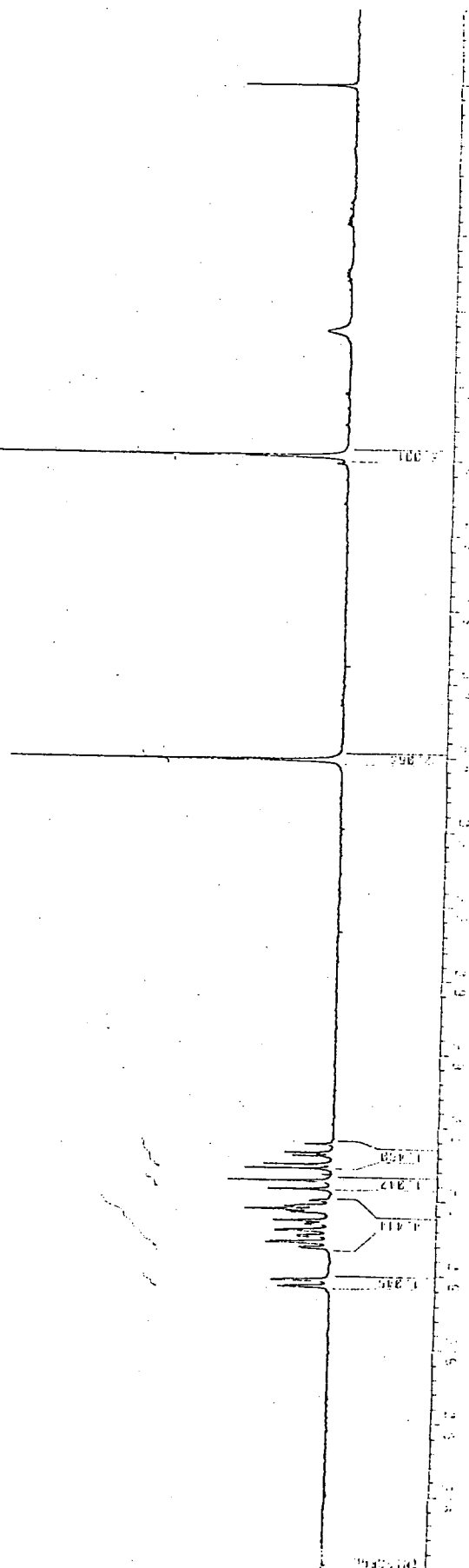
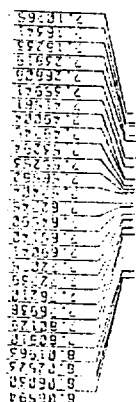
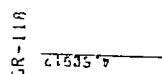
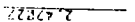
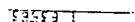
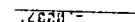
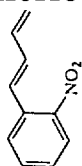
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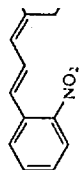
04-1234

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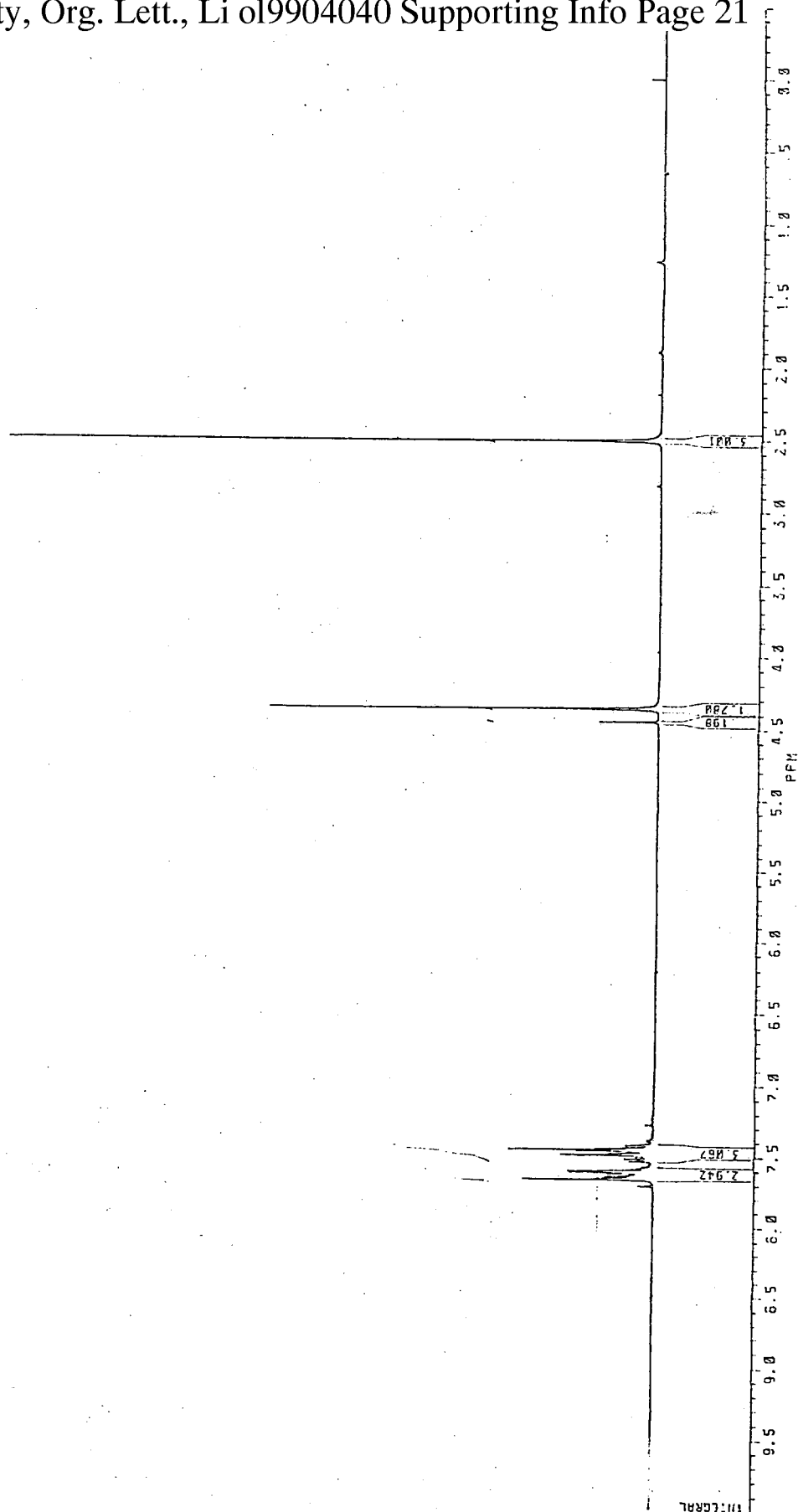
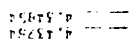
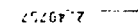
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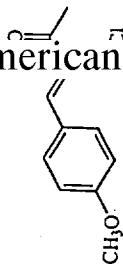
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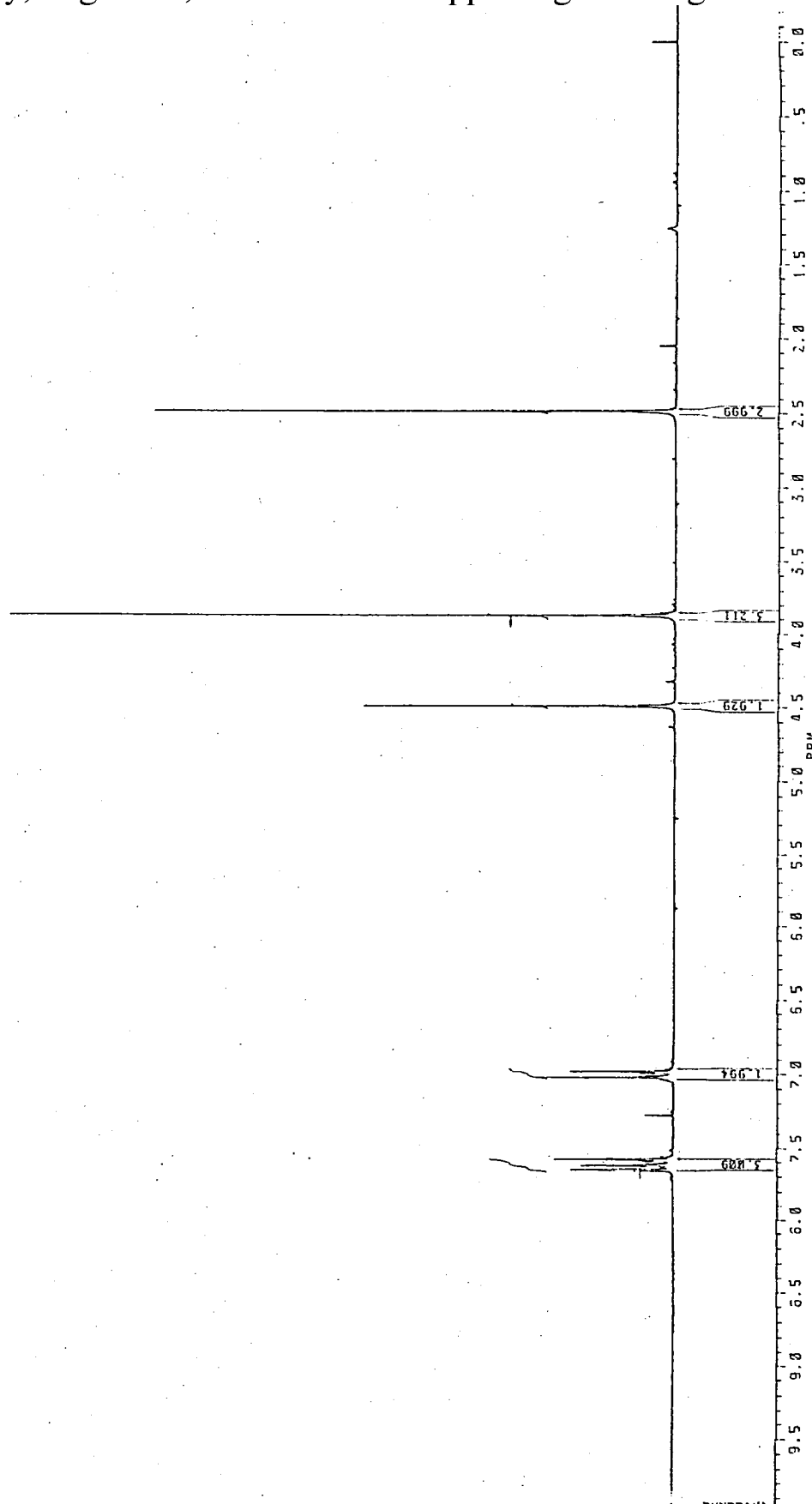
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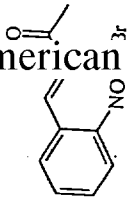
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PPM



INTEGRAL



1.64434

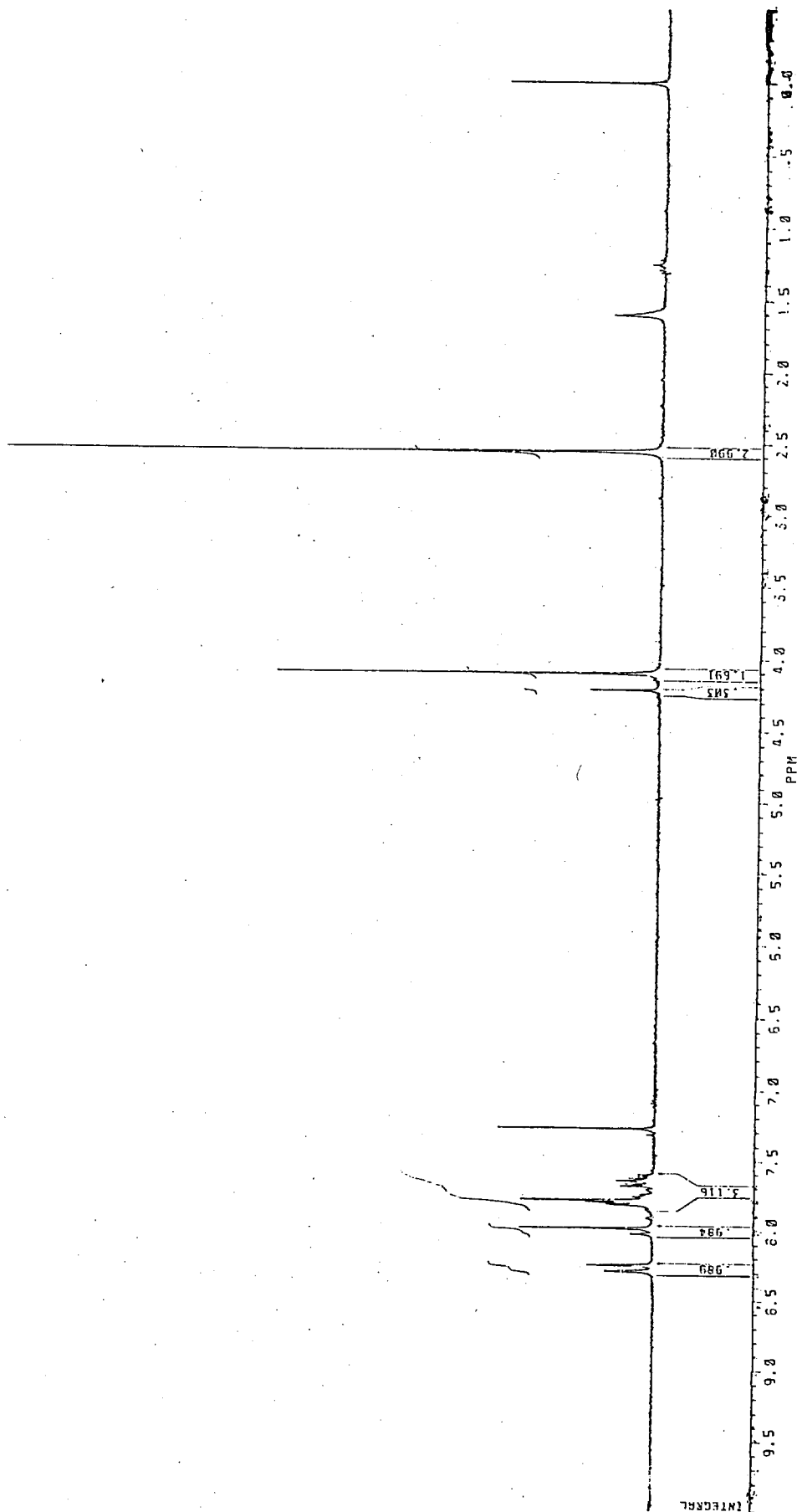
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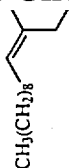
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4.09941

2.26515

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2.64429
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2.73254
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2.81652
2.81654
2.92425
6.24542
6.29966

PPM





SURK47
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