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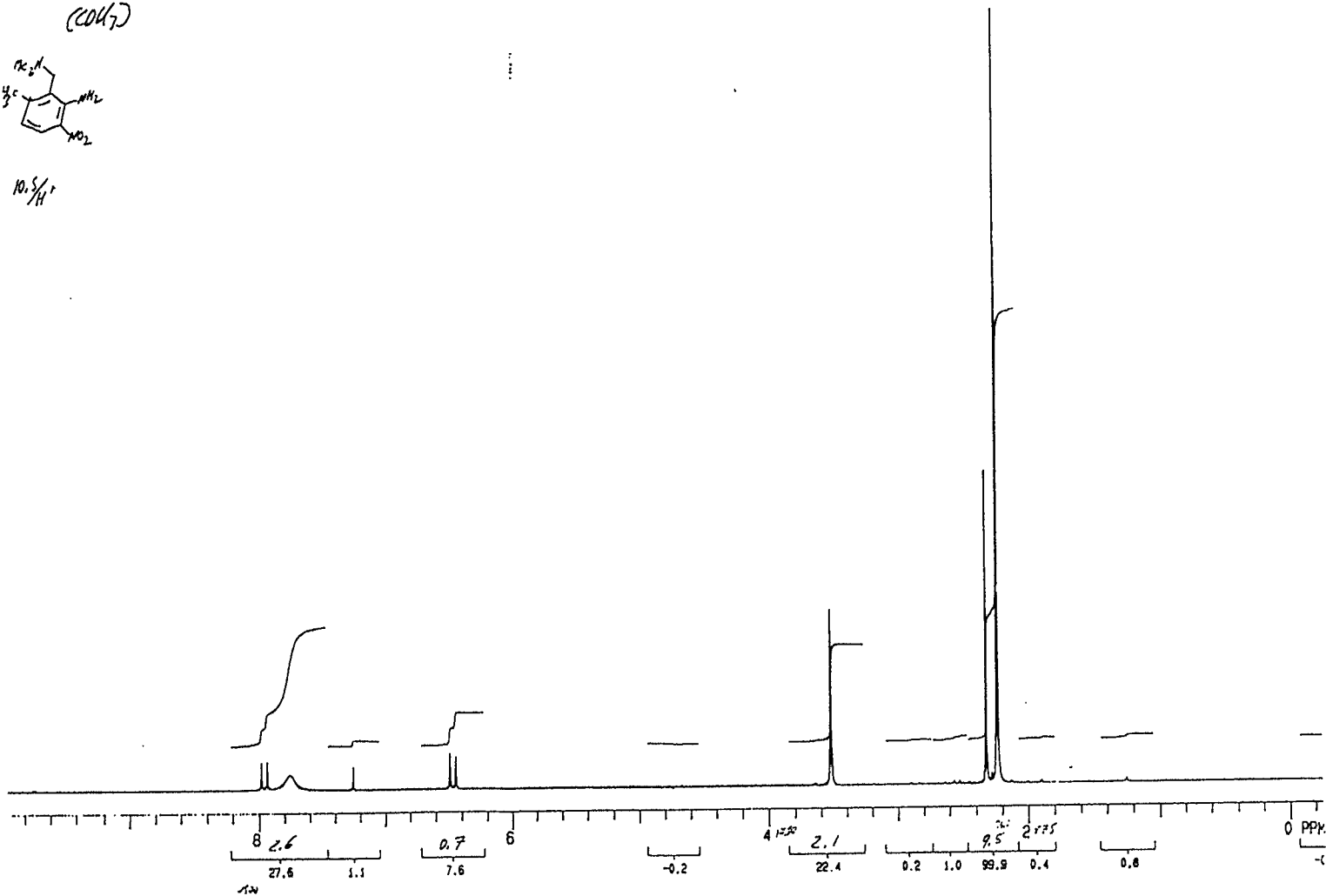
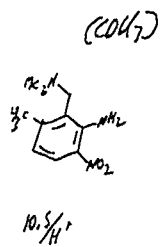
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① Table 1 #1



38458x105/tomberg/hl/odol3  
STANDARD 1K OBSERVE

exp2 pulse sequence: stdih

SAMPLE  
date Nov 15 94  
solvent CDCL3  
file /home/sut-  
o/aut\_15.11.94/13-  
01

ACQUISITION  
freq 400.083  
tn H1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

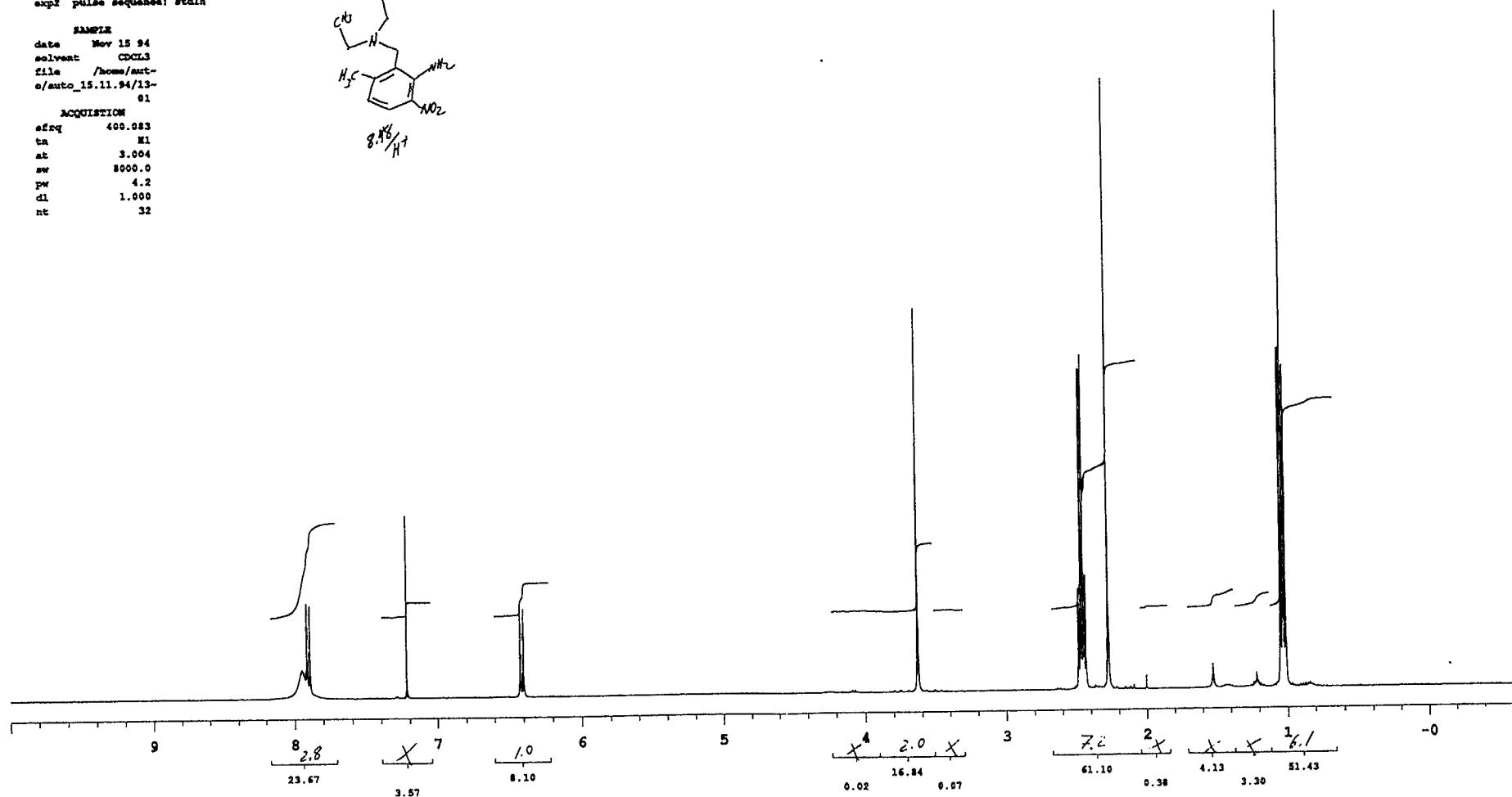
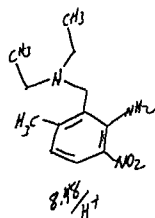


Table 1 #2

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.950           | 3180.542       | 7.0    |
| 2     | 7.918           | 3167.846       | 23.7   |
| 3     | 7.895           | 3158.813       | 23.0   |
| 4     | 7.221           | 2889.029       | 45.4   |
| 5     | 6.423           | 2569.928       | 22.7   |
| 6     | 6.402           | 2561.138       | 21.9   |
| 7     | 3.632           | 1453.195       | 95.2   |
| 8     | 2.487           | 994.929        | 25.0   |
| 9     | 2.480           | 992.243        | 5.8    |
| 10    | 2.469           | 987.604        | 79.4   |
| 11    | 2.451           | 980.524        | 82.9   |
| 12    | 2.433           | 973.444        | 28.2   |
| 13    | 2.276           | 910.697        | 151.5  |
| 14    | 2.005           | 802.296        | 3.5    |
| 15    | 1.528           | 611.128        | 6.1    |
| 16    | 1.218           | 487.345        | 3.9    |
| 17    | 1.214           | 485.636        | 2.9    |
| 18    | 1.049           | 419.716        | 83.9   |
| 19    | 1.031           | 412.635        | 168.0  |
| 20    | 1.013           | 405.311        | 79.8   |

38458x105/kornberg/h1/oda13  
STANDARD IN OBSERVE

exp2 pulse sequence: stdlh

SAMPLE DEC. & VT  
data Nov 15 94 dfrq 400.082  
solvent CDCL3 dm H1  
file /home/aut- dpwr 4  
o/auto\_15.11.94/13- dof 0  
01 dm nan  
ACQUISITION dm a  
dfrq 400.083 dsc 200  
tn H1 dseq undefined  
at 3.004 dres undefined  
np 48064 homo n  
sw 8000.0 PROCESSING  
fb 4400 lb 0.20  
bs 16 wf file  
tpwr 60 proc ft  
pw 4.2 fa not used  
dl 1.000 math f  
tof 500.0  
nt 32 verr reart  
ot 32 wexp hip  
alock s wba  
gain not used wat  
FLAGS  
il n  
in n  
cp y  
hs na  
DISPLAY  
sp -400.1  
wp 6401.3  
vs 58  
sc 0  
wc 400  
hsmm 16.00  
is 500.00  
rfl 3970.3  
rfp 2896.6  
th 2  
ins 1.000  
ai oda ph

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Table 1 #3

36687x14/bornberg/hl/odcl3  
STANDARD IN OBSERVE

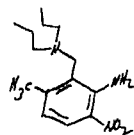
exp1 pulse sequence: stdih

SAMPLE

date Dec 27 94  
solvent CDCL3  
file /home/mrt-  
o/mto\_27.12.94/01-  
01

ACQUISITION

freq 400.043  
ta N1  
st 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32



6.89/H<sup>1</sup>

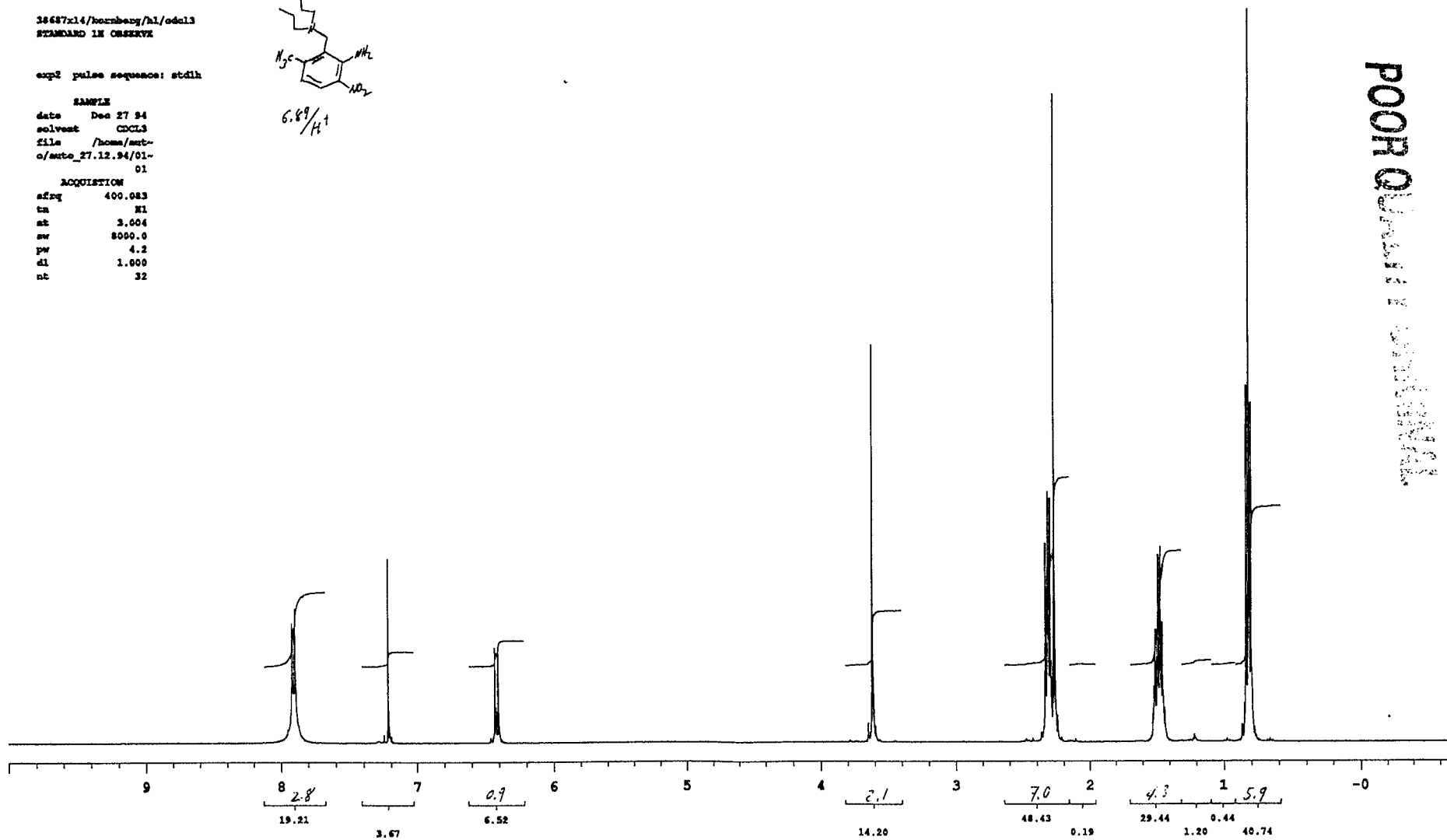


Table 1 #3

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.953           | 3181.763       | 3.5    |
| 2     | 7.823           | 3170.044       | 31.1   |
| 3     | 7.902           | 3161.284       | 35.0   |
| 4     | 7.252           | 2961.237       | 2.2    |
| 5     | 7.222           | 2869.518       | 47.7   |
| 6     | 7.216           | 2867.076       | 8.7    |
| 7     | 6.431           | 2572.858       | 24.9   |
| 8     | 6.409           | 2564.068       | 24.2   |
| 9     | 3.651           | 1460.519       | 5.1    |
| 10    | 3.621           | 1448.800       | 103.5  |
| 11    | 3.592           | 1437.081       | 4.4    |
| 12    | 2.346           | 946.587        | 2.8    |
| 13    | 2.347           | 939.019        | 4.1    |
| 14    | -2.337          | 934.868        | 51.4   |
| 15    | 2.331           | 932.671        | 18.1   |
| 16    | 2.318           | 927.300        | 64.6   |
| 17    | 2.314           | 925.835        | 49.1   |
| 18    | -2.299          | 919.975        | 62.9   |
| 19    | 2.273           | 909.477        | 168.0  |
| 20    | 2.244           | 897.758        | 7.1    |
| 21    | -1.524          | 809.907        | 7.4    |
| 22    | 1.517           | 806.733        | 14.7   |
| 23    | 1.506           | 802.583        | 29.3   |
| 24    | 1.488           | 885.258        | 48.4   |
| 25    | 1.469           | 887.690        | 50.4   |
| 26    | 1.451           | 880.365        | 31.2   |
| 27    | 1.432           | 873.041        | 9.0    |
| 28    | 0.871           | 348.669        | 4.7    |
| 29    | 0.853           | 341.344        | 10.2   |
| 30    | -0.842          | 336.950        | 22.6   |
| 31    | 0.837           | 334.752        | 28.1   |
| 32    | 0.824           | 329.625        | 189.5  |
| 33    | 0.818           | 327.428        | 48.5   |
| 34    | -0.806          | 322.301        | 88.3   |
| 35    | 0.795           | 318.150        | 16.0   |
| 36    | 0.776           | 310.582        | 4.1    |

38687x14/hornbeag/h1/odn13  
STANDARD 1H OBSERVE

exp2 pulse sequence: stdih

```

SAMPLE          DMC. & VT
data    Dec 27 94    dfrq    400.082
solvent    CDCl3    dm      H1
file    /home/mut-    dprz    4
o/sate_27.12.94/01-    def    0
                        01    dm      nna
ACQUISITION      dm      e
dfrq    400.082    dmf    200
tn      H1    deaq    undefined
at      3.004    dres    undefined
wp      48064    homo    n
sw      8000.0    PROCESSING
zb      4400    lb      0.20
be      16    utfile
tpwr    60    proc    ft
pw      4.2    fa      not used
dl      1.000    math    f
toz      500.0
nt      32    warr    react
ot      32    wexp    hlp
aleak    s    vba
gain      not used    vnt
FLAGS
il      n
in      n
dp      . y
hs      na
DISPLAY
sp      -400.1
wp      6401.3
vs      94
sc      0
wa      400
hzmm    16.00
ls      500.00
rfl      3970.3
rfp      2896.6
th      2
ins      1.000
ai    odc    ph

```

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Table 1 #4

38687x15/kornberg/h1/edell3  
STANDARD 1H OBSERVE

exp2 pulse sequence: stdih

## SAMPLE

date Dec 27 94  
solvent CDCL3  
file /home/mut-  
o/auto\_27.12.94/02-  
01

## ACQUISITION

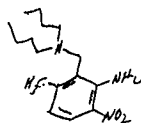
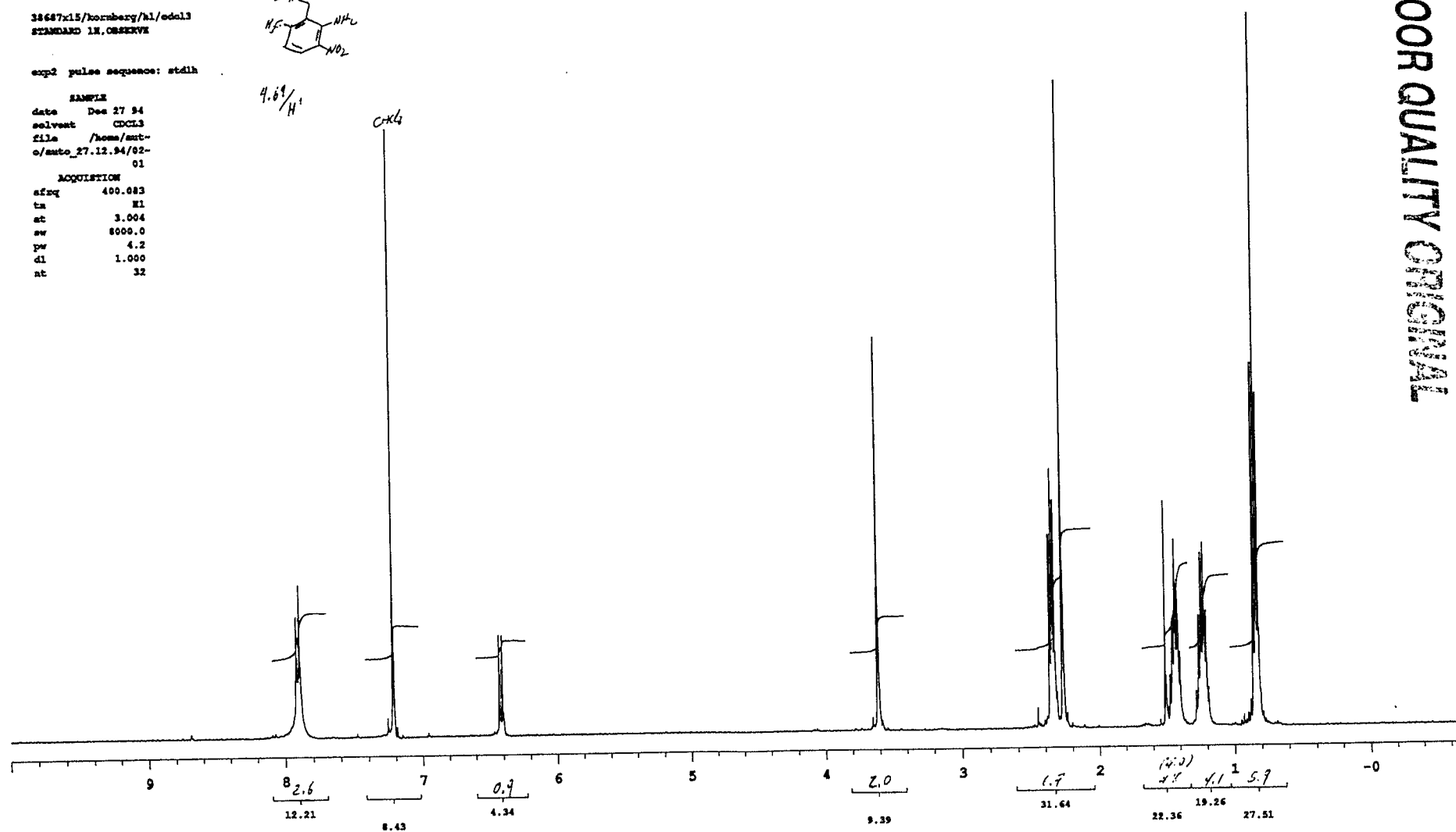
freq 400.083  
ta 11  
at 1.004  
sw 8000.0  
pr 4.2  
d1 1.000  
nt 324.69/H<sup>1</sup>CDCL<sub>3</sub>

Table 1 #4

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.923           | 3169.800       | 31.4   |
| 2     | 7.901           | 3161.010       | 39.9   |
| 3     | 7.258           | 2903.822       | 4.9    |
| 4     | 7.222           | 2889.518       | 157.4  |
| 5     | 7.214           | 2886.344       | 28.6   |
| 6     | 7.186           | 2874.869       | 2.6    |
| 7     | 6.430           | 2572.613       | 26.0   |
| 8     | 6.408           | 2563.880       | 25.9   |
| 9     | 5.681           | 1460.763       | 3.8    |
| 10    | 3.615           | 1446.114       | 102.0  |
| 11    | 3.579           | 1431.709       | 2.7    |
| 12    | 2.454           | 981.745        | 5.4    |
| 13    | 2.345           | 954.156        | 3.1    |
| 14    | -2.367          | 946.831        | 50.4   |
| 15    | 2.348           | 939.807        | 67.2   |
| 16    | -2.329          | 931.938        | 59.2   |
| 17    | 2.310           | 924.370        | 9.4    |
| 18    | 2.293           | 917.289        | 3.0    |
| 19    | 2.273           | 909.477        | 168.0  |
| 20    | 2.267           | 906.791        | 42.2   |
| 21    | 2.237           | 895.072        | 4.0    |
| 22    | 1.507           | 602.827        | 58.6   |
| 23    | 1.489           | 599.653        | 13.3   |
| 24    | -1.470          | 588.178        | 13.3   |
| 25    | 1.452           | 581.098        | 27.9   |
| 26    | 1.433           | 573.285        | 48.8   |
| 27    | 1.427           | 570.843        | 30.4   |
| 28    | 1.415           | 565.960        | 35.2   |
| 29    | -1.396          | 558.636        | 19.3   |
| 30    | -1.280          | 512.004        | 9.1    |
| 31    | 1.261           | 504.435        | 28.7   |
| 32    | 1.242           | 496.867        | 45.3   |
| 33    | 1.223           | 489.298        | 47.8   |
| 34    | 1.205           | 482.218        | 30.0   |
| 35    | -1.187          | 474.883        | 10.1   |
| 36    | 0.930           | 372.107        | 3.0    |
| 37    | 0.898           | 359.167        | 3.4    |
| 38    | 0.879           | 351.843        | 6.8    |
| 39    | -0.861          | 344.518        | 93.8   |
| 40    | 0.854           | 341.588        | 26.1   |
| 41    | 0.843           | 337.194        | 184.5  |
| 42    | 0.835           | 334.264        | 45.8   |
| 43    | -0.825          | 329.869        | 86.0   |
| 44    | 0.788           | 315.464        | 3.6    |

38687x15/kornberg/h1/odol3  
STANDARD 1H OBSERVE

exp2 pulse sequence: std1h

```

SAMPLE          DEC. & VT
date    Dec 27 94    dirq    400.082
solvent  CDCl3      dm      N1
file     /home/mut- dper      4
o/auto_27.12.94/02- dof      0
                        01      dm      nan
ACQUISITION      dm      c
sfrq    400.083    dmf      200
tn       N1      deeq    undefined
at       3.004    dres    undefined
np      48064    home     n
sw      8000.0    PROCESSING
zb      4400     lb      0.20
be       1.6     wfile
tpwr     60      proc      ft
pw       4.2     fn      not used
dl       1.000    math      f
tof      500.0
nt       32      warr      react
et       32      wexp      hlp
alock    s      vba
gain      not used    wnt

FLAGS
il      n
in      n
dp      Y
hs      nn

DISPLAY
sp      -400.1
wp      6401.3
vs      165
ae      0
wo      400
hnam    16.00
ls      500.00
rfl     3970.3
rfp     2896.6
th      2
ins     1.000
ai      oda  ph

```



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Table 1 #5

12066/nikam/odol3  
STANDARD IN OBSERVE

pulse sequence: stdih

SAMPLE

Jan 12 95

CDCL3

/home/aut-

file\_12.01.95/01-

01

ACQUISITION

400.083

M1

3.004

8000.0

4.2

1.000

32

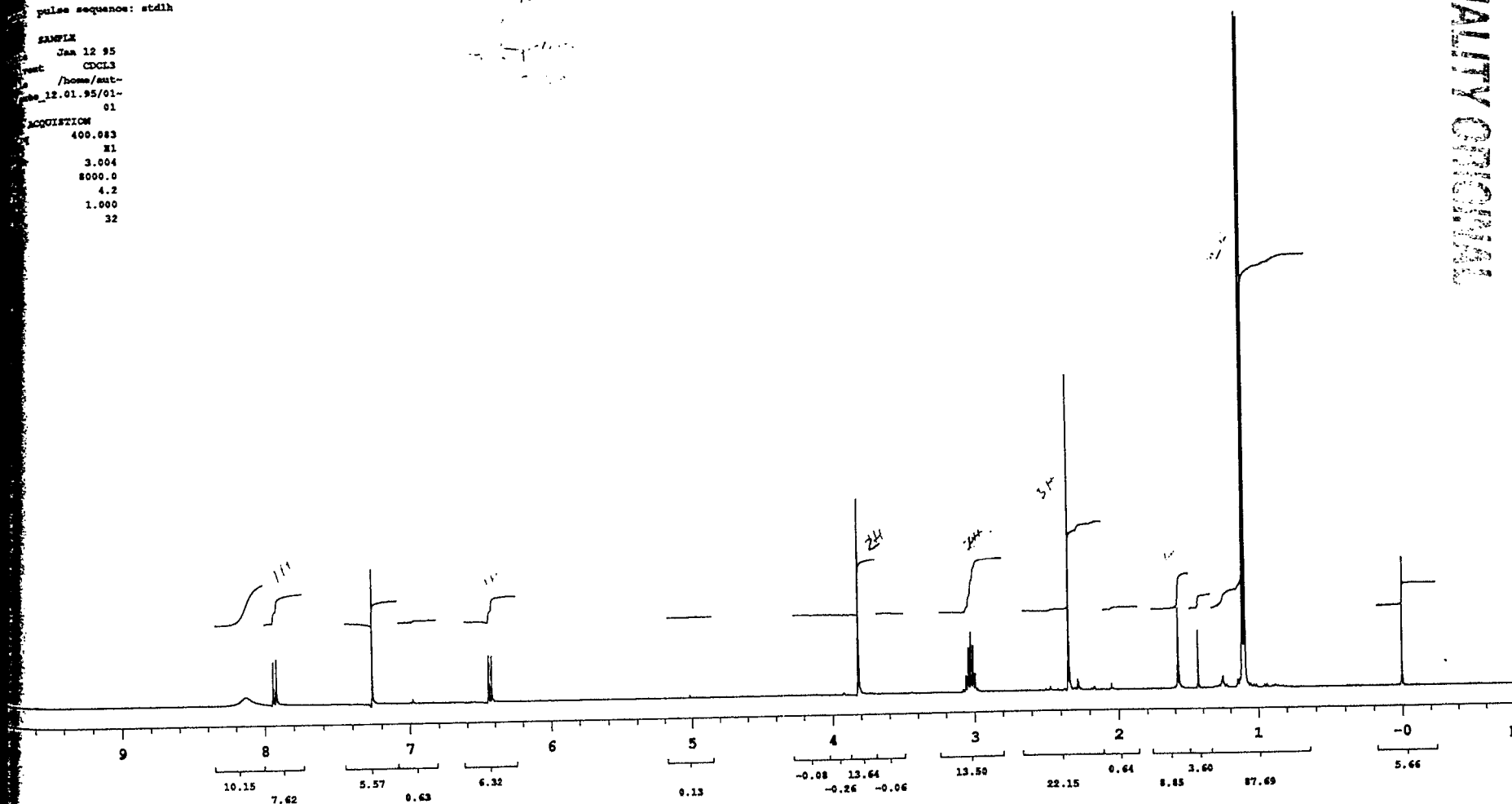


Table 1 # 5

| FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-----------------|----------------|--------|
| 7.941           | 3177.099       | 10.7   |
| 7.919           | 3168.310       | 11.4   |
| 7.264           | 2906.095       | 33.6   |
| 6.447           | 2579.424       | 11.6   |
| 6.425           | 2570.391       | 11.5   |
| 3.820           | 1528.123       | 48.7   |
| 3.061           | 1224.647       | 4.2    |
| 3.045           | 1218.055       | 11.0   |
| 3.027           | 1211.219       | 14.9   |
| 3.011           | 1204.627       | 11.6   |
| 2.994           | 1198.035       | 4.7    |
| 2.343           | 937.529        | 78.6   |
| 1.577           | 630.879        | 20.2   |
| 1.433           | 573.260        | 14.5   |
| 1.253           | 501.480        | 3.1    |
| 1.112           | 445.082        | 168.0  |
| 1.095           | 438.246        | 166.8  |
| -0.000          | -0.000         | 32.2   |

38332x86a/nikams/odc13  
STANDARD IN OBSERVE

exp2 pulse sequence: std1h

```

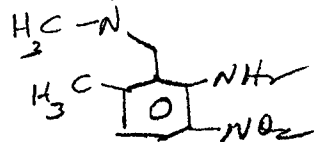
SAMPLE                                DEC. & VT
date      Jan 12 95  dfrq      400.082
solvent    CDCL3      dn      N1
file      /home/aut- dpwr      4
o/auto_12.01.95/01- dof      0
                                01  dm      nnn
ACQUISITION                        dnm      e
sfrq      400.083  dmf      200
tn      N1      dseq      undefined
at      3.004      dres      undefined
rp      48064      homo      n
sw      8000.0      PROCESSING
zb      4400      lb      0.20
bs      16      wtfile
tpwr      60      proc      ft
pw      4.2      fn      not used
dl      1.000      math      f
tof      500.0
nt      32      werr      react
ot      32      wexp      hip
alook      s      whs
gain      not used      wnt

FLAGS
ll      n
in      n
dp      y
hs      nn

DISPLAY
sp      -400.2
vp      6401.3
va      35
sa      0
wa      400
hnm      16.00
la      500.00
rf1      1056.9
rfp      0
th      3
ins      1.000
ai      odc      ph

```

Table 1 #6



34997x38/nikam/h1/odol3/  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

SAMPLE

date Apr 13 95  
solvent CDCL3  
file /home/aut-  
o/aut\_13.04.95/53-  
01

ACQUISITION

sfreq 400.083  
tn R1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

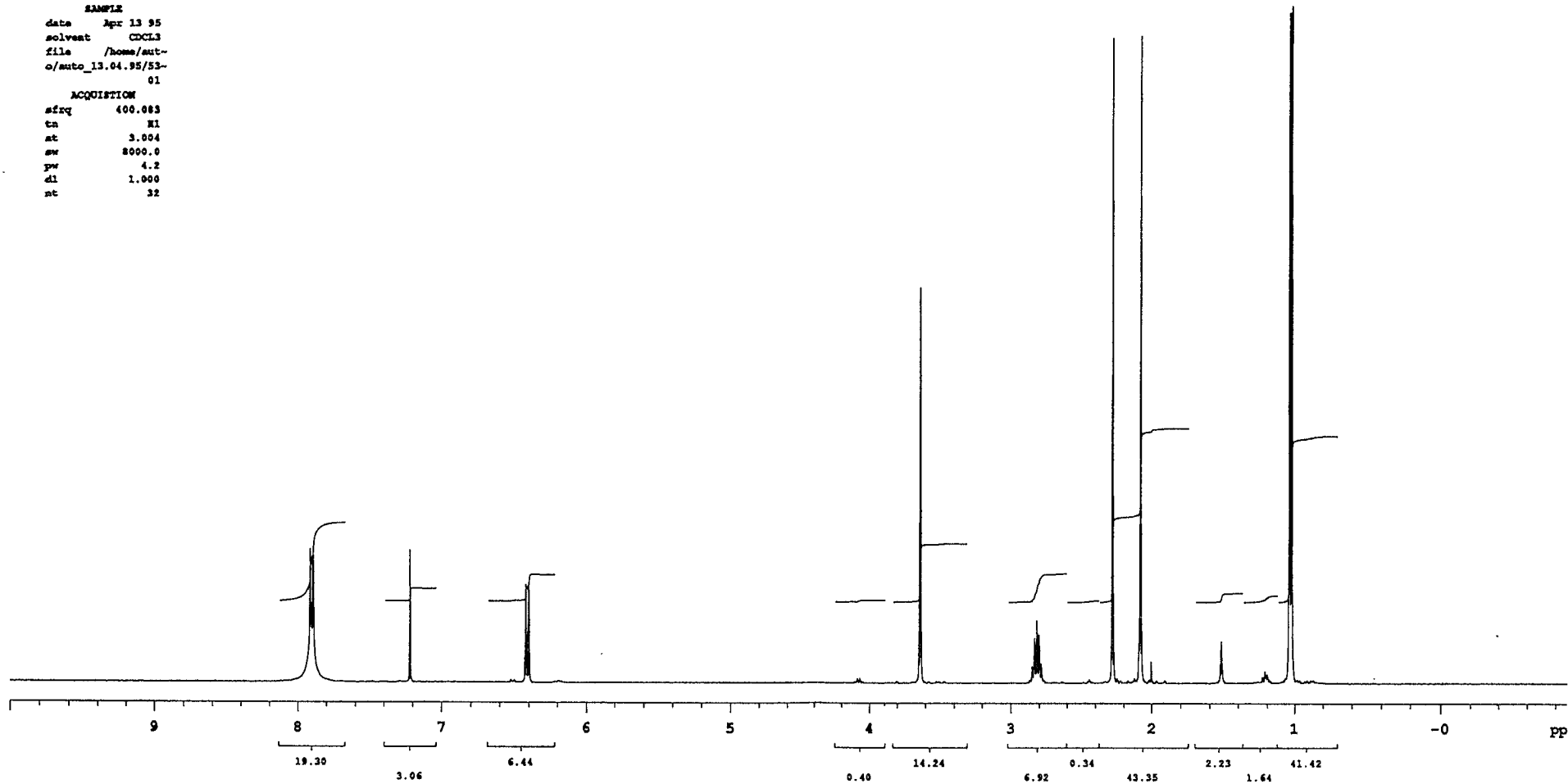


Table 1 #6

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.917           | 3167.602       | 32.8   |
| 2     | 7.895           | 3158.813       | 33.4   |
| 3     | 7.222           | 2889.274       | 32.6   |
| 4     | 7.219           | 2888.297       | 24.2   |
| 5     | 7.216           | 2886.832       | 23.2   |
| 6     | 6.425           | 2570.416       | 24.2   |
| 7     | 6.402           | 2561.383       | 23.5   |
| 8     | 3.640           | 1456.368       | 98.3   |
| 9     | 2.852           | 1141.173       | 4.3    |
| 10    | 2.836           | 1134.581       | 11.3   |
| 11    | 2.831           | 1132.628       | 8.9    |
| 12    | 2.819           | 1127.989       | 15.6   |
| 13    | 2.815           | 1126.036       | 11.9   |
| 14    | 2.803           | 1121.397       | 12.1   |
| 15    | 2.798           | 1119.444       | 9.0    |
| 16    | 2.786           | 1114.805       | 5.0    |
| 17    | 2.285           | 914.360        | 160.2  |
| 18    | 2.281           | 912.651        | 121.0  |
| 19    | 2.083           | 833.303        | 160.7  |
| 20    | 2.078           | 831.349        | 121.0  |
| 21    | 2.007           | 802.784        | 5.5    |
| 22    | 2.000           | 800.343        | 4.1    |
| 23    | 1.521           | 608.442        | 10.5   |
| 24    | 1.219           | 487.833        | 3.3    |
| 25    | 1.213           | 485.392        | 3.1    |
| 26    | 1.199           | 479.776        | 2.4    |
| 27    | 1.201           | 480.509        | 2.4    |
| 28    | 1.045           | 418.007        | 166.4  |
| 29    | 1.039           | 415.809        | 125.2  |
| 30    | 1.028           | 411.415        | 168.0  |
| 31    | 1.023           | 409.217        | 121.7  |

38997x38/nikam/h1/odul3/  
STANDARD IN OBSERVE

exp2 pulse sequence: stdlh

```

SAMPLE                                DEC. 4 VT
date      Apr 13 95  dfreq      400.082
solvent    CDCl3  dn
file      /home/aut- dpwr      4
o/auto_13.04.95/53- dof      0
                                01  dm      nnn
ACQUISITION                        dnm      c
dfreq      400.083  dmf      200
tn          E1  dseq      undefined
at          3.004  dres      undefined
rp          48064  homo
aw          8000.0  PROCESSING
zb          4400  lb      0.20
be          16  wtfile
tpwr        60  proc      ft
pw          4.2  fn      not used
dl          1.000  math
tof          500.0
nt          32  warr      reac
ot          32  wexp      hl
alock        a
gain         not used  wnt
FLAGS
il          n
in          n
dp          y
hs          nn
DISPLAY
sp          -400.1
wp          6401.3
vs          107
sc          0
wc          400
hzmm        14.00
is          500.00
rfl          3970.3
rfp          2896.6
th          2
ins          1.000
al  odc  ph

```

# Table 1 # 7

38687x124/hornberg/h1  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

## SAMPLE

date Mar 14 95  
solvent CDCl3  
file /hnm/mt-  
e/mto\_14.03.95/23-  
01

## ACQUISITION

freq 400.083  
ta H1  
st 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

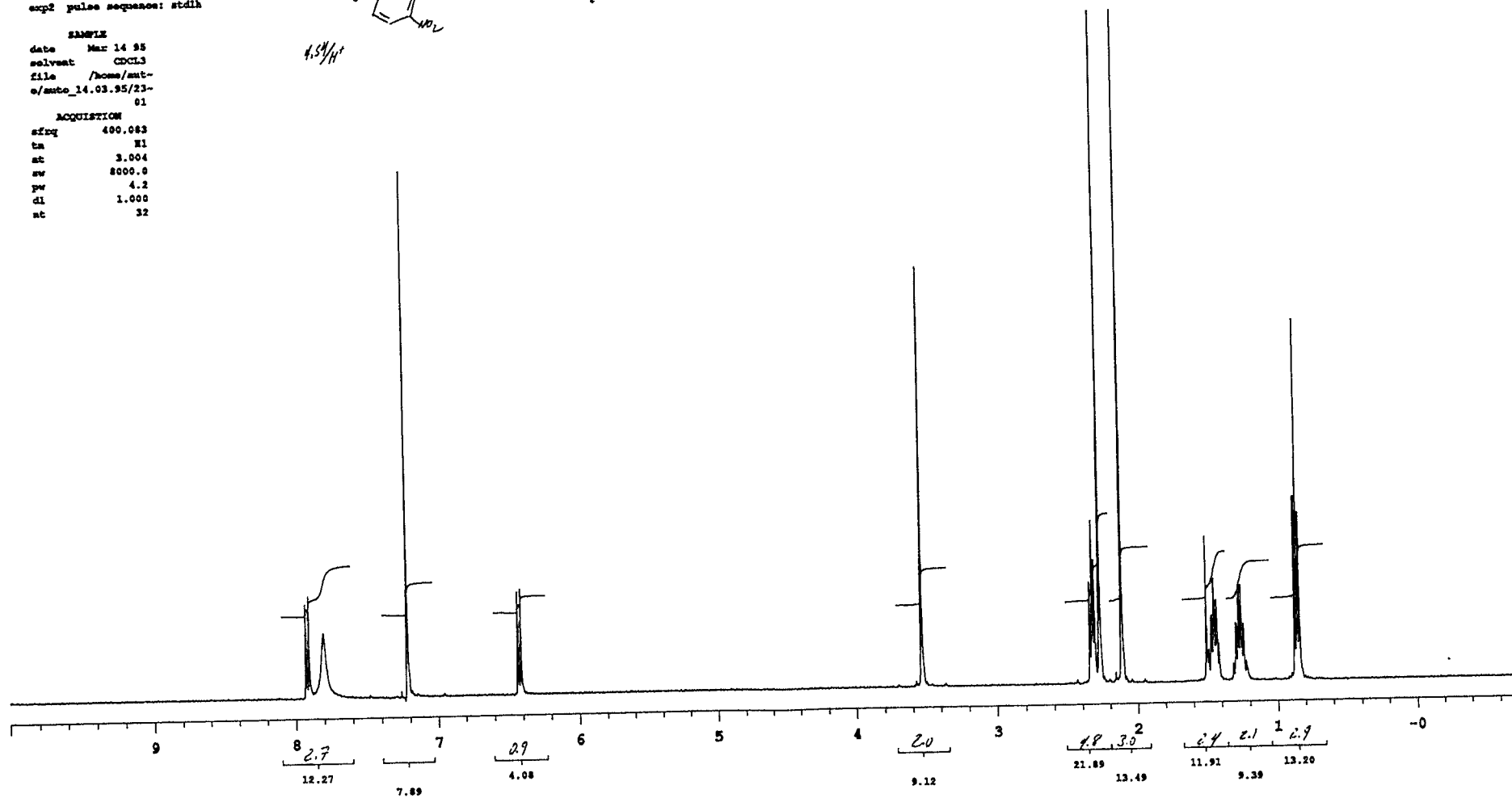
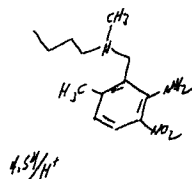


Table 1 #7

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.931           | 3173.218       | 23.0   |
| 2     | 7.909           | 3164.428       | 25.0   |
| 3     | 7.806           | 3122.923       | 15.9   |
| 4     | 7.223           | 2889.762       | 130.5  |
| 5     | 6.439           | 2576.032       | 25.2   |
| 6     | 6.417           | 2567.242       | 25.9   |
| 7     | 3.538           | 1415.352       | 104.2  |
| 8     | 2.346           | 938.775        | 24.9   |
| 9     | 2.328           | 931.206        | 40.3   |
| 10    | 2.310           | 924.126        | 30.6   |
| 11    | 2.278           | 911.430        | 167.9  |
| 12    | 2.158           | 865.577        | 2.7    |
| 13    | 2.120           | 848.196        | 168.0  |
| 14    | 1.507           | 603.071        | 35.8   |
| 15    | 1.490           | 595.991        | 7.8    |
| 16    | 1.471           | 588.422        | 16.0   |
| 17    | 1.452           | 581.098        | 25.2   |
| 18    | 1.434           | 573.773        | 19.9   |
| 19    | 1.416           | 566.449        | 9.4    |
| 20    | 1.316           | 526.653        | 4.2    |
| 21    | 1.298           | 519.328        | 14.1   |
| 22    | 1.279           | 511.760        | 23.4   |
| 23    | 1.260           | 504.191        | 23.6   |
| 24    | 1.242           | 496.867        | 14.0   |
| 25    | 1.224           | 489.542        | 5.0    |
| 26    | 0.881           | 352.331        | 45.3   |
| 27    | 0.862           | 345.006        | 89.0   |
| 28    | 0.844           | 337.682        | 41.3   |

38687x124/hornberg/h1  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

```

SAMPLE          DEC. & VT
date    Mar 14 95  dfrq    400.082
solvent  CDCl3    dm      H1
file     /home/nrt-  dprx      4
e/ntu_14.03.95/23-  dof      0
                        01    dm      nan
ACQUISITION      dms      a
sfrq    400.083  dmz      200
tn       H1      dseq    undefined
at       3.004  dres    undefined
np       41064  homo     n
sw       8000.0  PROCESSING
zb       4400   lb      0.20
bs       16     wtfile
tper     60     proc     ft
pw       4.2    fn      not used
dl       1.000  math     f
tof      500.0
st       32     warr     react
et       32     wexp     hlp
aleak    a
gain     not used  wnt

FLAGS
il      n
in      n
dp      y
hs      na

DISPLAY
sp      -400.1
wp      6401.3
vs      166
ac      0
wc      400
hmm     16.00
ls      500.00
xfl     3978.3
xfp     2896.6
th      2
ins     1.000
ai      odc  ph

```

3

# Table 1 #8

38484c119/hornberg/h1/edall3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

## SAMPLE

date Nov 29 94  
solvent CDCL3  
file /home/aut-  
o/auto\_29.11.94/02-  
01

## ACQUISITION

freq 400.083  
tm H1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

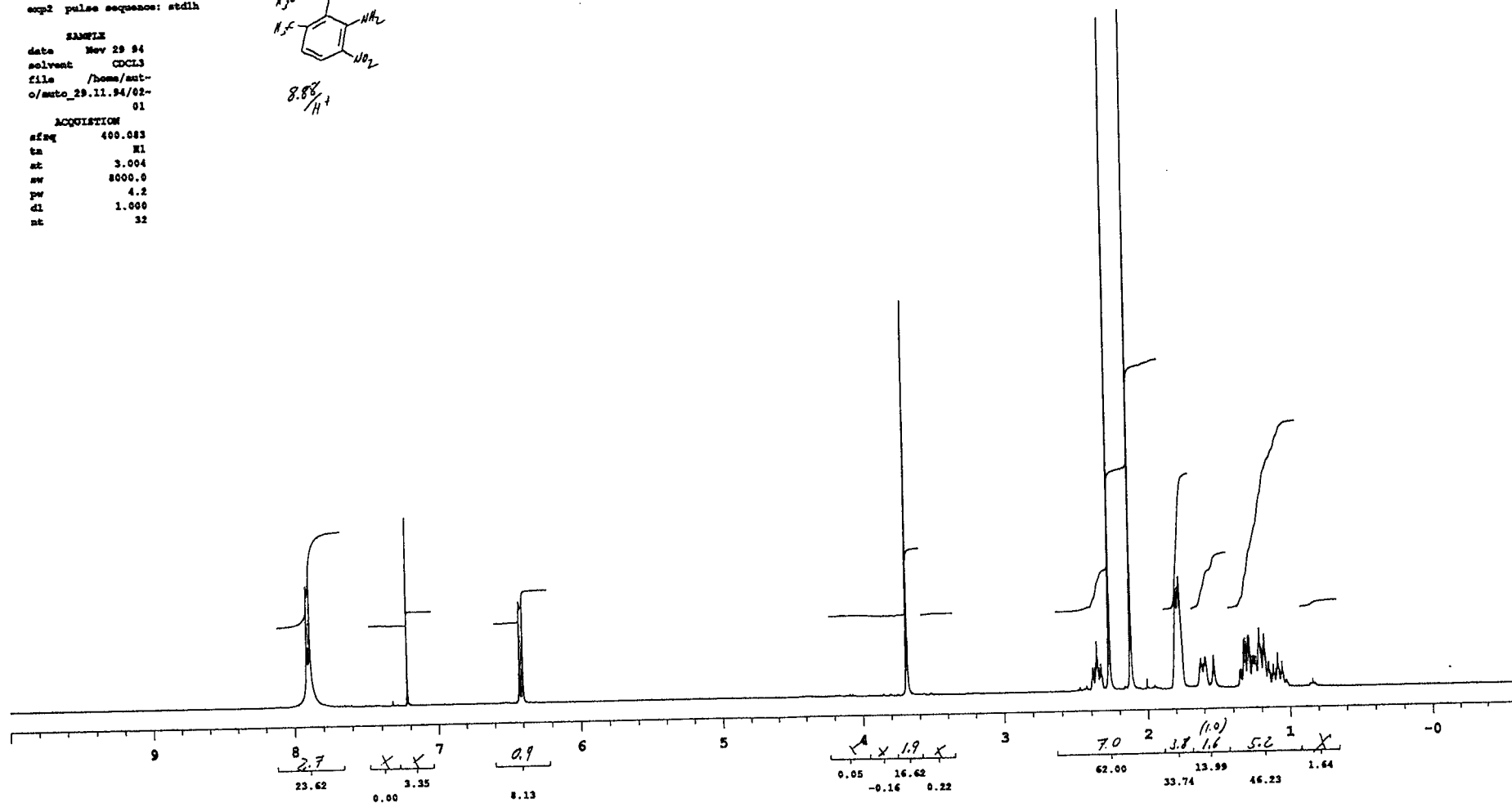
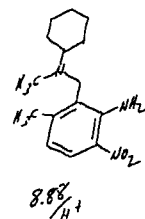


Table 1 #8

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.916           | 3166.870       | 30.2   |
| 2     | 7.894           | 3158.081       | 35.6   |
| 3     | 7.222           | 2889.274       | 47.0   |
| 4     | 6.425           | 2570.416       | 25.5   |
| 5     | 6.402           | 2561.383       | 24.8   |
| 6     | 3.690           | -1476.144      | 97.6   |
| 7     | -2.393          | 957.330        | 3.1    |
| 8     | 2.386           | 954.400        | 5.9    |
| 9     | 2.378           | 951.470        | 4.3    |
| 10    | 2.365           | 946.099        | 7.1    |
| 11    | 2.357           | 943.169        | 12.4   |
| 12    | 2.350           | 940.239        | 8.0    |
| 13    | 2.337           | 935.112        | 4.5    |
| 14    | 2.329           | 931.938        | 6.9    |
| 15    | 2.321           | 928.764        | 4.1    |
| 16    | 2.272           | 908.988        | 166.1  |
| 17    | 2.120           | 848.196        | 168.0  |
| 18    | 2.005           | 802.296        | 2.9    |
| 19    | 1.798           | 719.285        | 24.1   |
| 20    | 1.792           | 717.088        | 25.1   |
| 21    | 1.773           | 709.519        | 28.1   |
| 22    | 1.621           | 648.727        | 7.6    |
| 23    | 1.590           | 636.275        | 8.1    |
| 24    | 1.532           | 613.681        | 8.4    |
| 25    | 1.349           | 538.592        | 4.8    |
| 26    | 1.342           | 536.907        | 4.8    |
| 27    | 1.319           | 527.873        | 12.1   |
| 28    | 1.312           | 524.944        | 12.5   |
| 29    | 1.290           | 515.910        | 12.9   |
| 30    | 1.283           | 513.224        | 13.2   |
| 31    | 1.260           | 504.191        | 8.1    |
| 32    | 1.250           | 500.285        | 8.2    |
| 33    | 1.241           | 496.622        | 8.0    |
| 34    | 1.218           | 487.345        | 11.4   |
| 35    | 1.211           | 484.415        | 15.0   |
| 36    | 1.185           | 474.161        | 9.7    |
| 37    | 1.178           | 471.231        | 13.4   |
| 38    | 1.154           | 461.709        | 4.4    |
| 39    | 1.147           | 459.024        | 6.5    |
| 40    | 1.120           | 448.281        | 3.9    |
| 41    | 1.114           | 445.595        | 5.8    |
| 42    | 1.106           | 442.666        | 3.5    |
| 43    | 1.091           | 436.318        | 5.1    |
| 44    | 1.083           | 433.388        | 8.7    |
| 45    | 1.076           | 430.458        | 5.3    |
| 46    | 1.060           | 424.110        | 3.8    |
| 47    | 1.053           | 421.181        | 6.5    |
| 48    | 1.045           | 418.251        | 4.0    |
| 49    | 0.842           | 336.705        | 2.2    |

38458x119/bernberg/h1/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

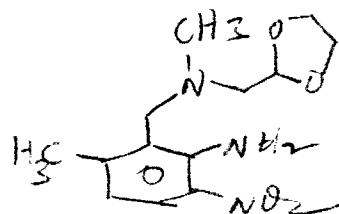
```

SAMPLE          DEC. & VT
date    Nov 29 94  dfrq      400.082
solvent  CDCL3    dm        H1
file     /home/ant-  dprc      4
o/auto_29.11.94/02-  dof      0
                        01 dm      nan
ACQUISITION      dm      a
dfrq      400.083  dmf      200
ta        H1    deeq  undefined
at        3.004  dres  undefined
np        48064  homo    n
sw        8000.0  PROCESSING
fb        4400  lb      0.20
hs        16  wtfila
tpwr      60  proc      ft
pw        4.2  fn      not used
dl        1.000  math    f
tof        500.0
nt        32  warr      react
ot        32  wexp      hlp
alook      s  vbs
gain      not used  wnt
      FLAGS
il        n
in        n
dp        y
hs        na
      DISPLAY
sp        -400.1
wp        6401.3
vs        69
sc        0
wc        400
hnmw      16.00
ls        500.00
rf1       3978.3
rfp       2896.6
th        2
ins       1.000
si  odc  ph

```



Table 1, # 9



38997x39/nikam/h1/odnl3/  
STANDARD IN OBSERVE

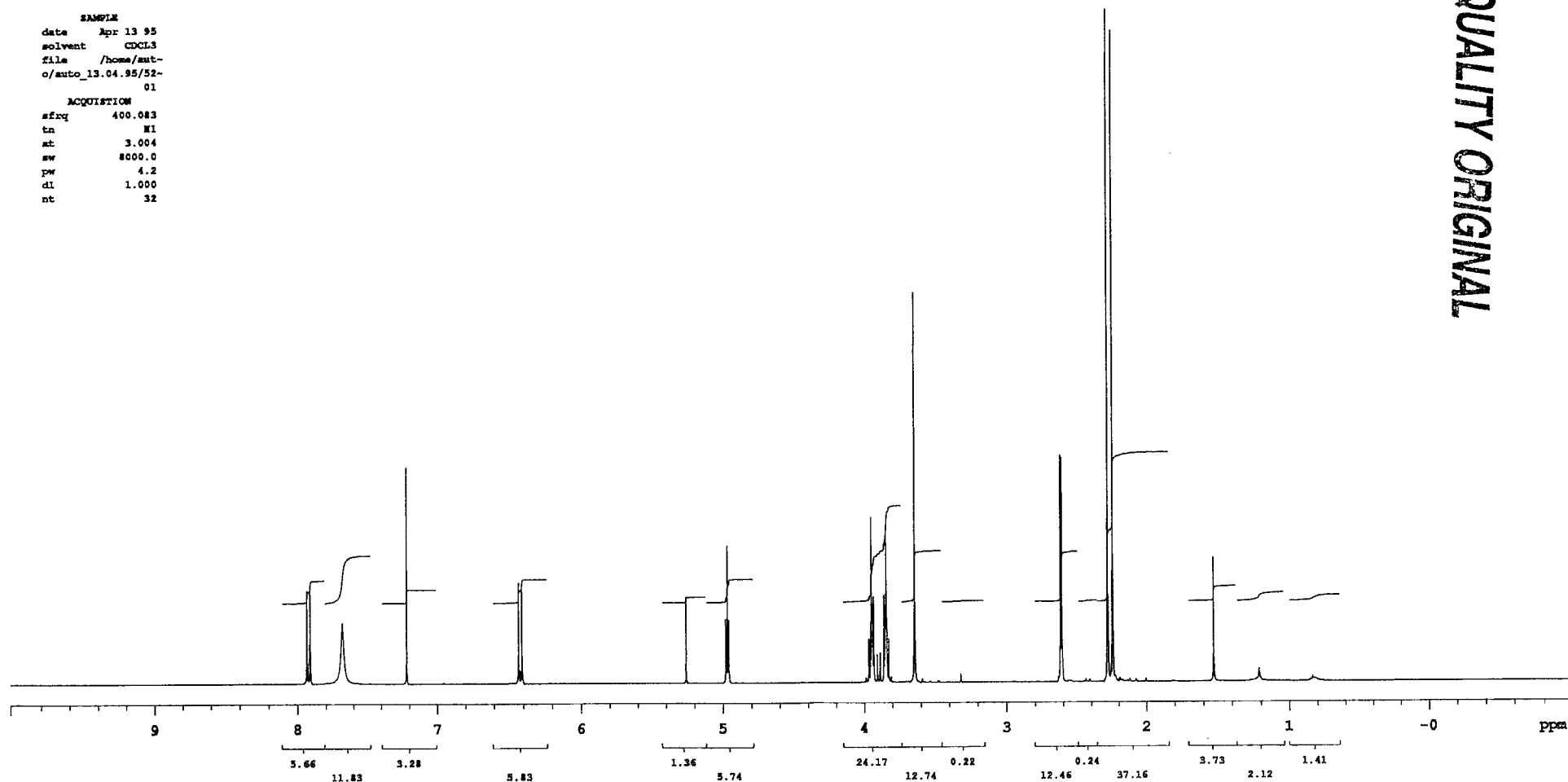
exp2 pulse sequence: std1h

SAMPLE

date Apr 13 95  
solvent CDCL3  
file /home/aut-  
o/auto\_13.04.95/52-  
01

ACQUISITION

sfreq 400.083  
tn M1  
nt 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32



POOR QUALITY ORIGINAL

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.937           | 3175.415       | 23.2   |
| 2     | 7.915           | 3166.626       | 23.4   |
| 3     | 7.679           | 3072.385       | 15.2   |
| 4     | 7.220           | 2888.785       | 54.1   |
| 5     | 6.432           | 2573.346       | 25.1   |
| 6     | 6.410           | 2564.557       | 24.5   |
| 7     | 5.259           | 2104.093       | 21.5   |
| 8     | 4.981           | 1992.762       | 16.0   |
| 9     | 4.970           | 1988.367       | 34.2   |
| 10    | 4.959           | 1983.972       | 15.7   |
| 11    | 3.967           | 1587.232       | 11.0   |
| 12    | 3.954           | 1582.105       | 15.1   |
| 13    | 3.950           | 1580.152       | 41.4   |
| 14    | 3.945           | 1578.442       | 23.0   |
| 15    | 3.940           | 1576.489       | 18.9   |
| 16    | 3.932           | 1573.315       | 21.6   |
| 17    | 3.907           | 1563.305       | 7.1    |
| 18    | 3.897           | 1555.004       | 7.5    |
| 19    | 3.861           | 1544.750       | 21.9   |
| 20    | 3.854           | 1541.820       | 18.9   |
| 21    | 3.849           | 1539.867       | 21.6   |
| 22    | 3.845           | 1538.158       | 27.6   |
| 23    | 3.843           | 1537.426       | 34.6   |
| 24    | 3.840           | 1536.205       | 20.8   |
| 25    | 3.826           | 1530.834       | 11.0   |
| 26    | 3.645           | 1458.322       | 97.3   |
| 27    | 3.320           | 1328.191       | 2.3    |
| 28    | 2.620           | 1048.153       | 57.0   |
| 29    | 2.609           | 1044.002       | 56.0   |
| 30    | 2.280           | 912.162        | 168.0  |
| 31    | 2.245           | 898.002        | 162.8  |
| 32    | 1.530           | 612.104        | 31.0   |
| 33    | 1.214           | 485.636        | 3.4    |

38897x39/nikan/h1/edol3/  
STANDARD 1H OBSERVE

exp2 pulse sequence: stdih

```

SAMPLE                                DEC. & VT
date      Apr 13 95  dfrq              400.082
solvent    CDCL3    dn                  M1
file       /home/aut- dpwr              4
o/auto_13.04.95/52- dof                0
                                01 dn      nnn
ACQUISITION                      dm      c
sfrq       400.083  dmf              200
tn          M1  dseq      undefined
at          3.004  dres      undefined
np          48064  homo              n
sw          8000.0
fb          4400  lb              0.20
bs          16   wf file
tpwr        60   proc              ft
pw          4.2   fa      not used
dl          1.000  math              f
tof          500.0
nt          32   warr      reset
ot          32   wexp      hlp
alook       s   wbs
gain        not used  wnt

FLAGS
il          n
in          n
dp          y
hs          nn

DISPLAY
sp          -400.1
wp          6401.3
vs          71
sc          0
wc          400
hxxmm      16.00
is          500.00
xfl         3970.3
xfp         2896.6
th          2
ins         1.000
ai  odc  ph

```

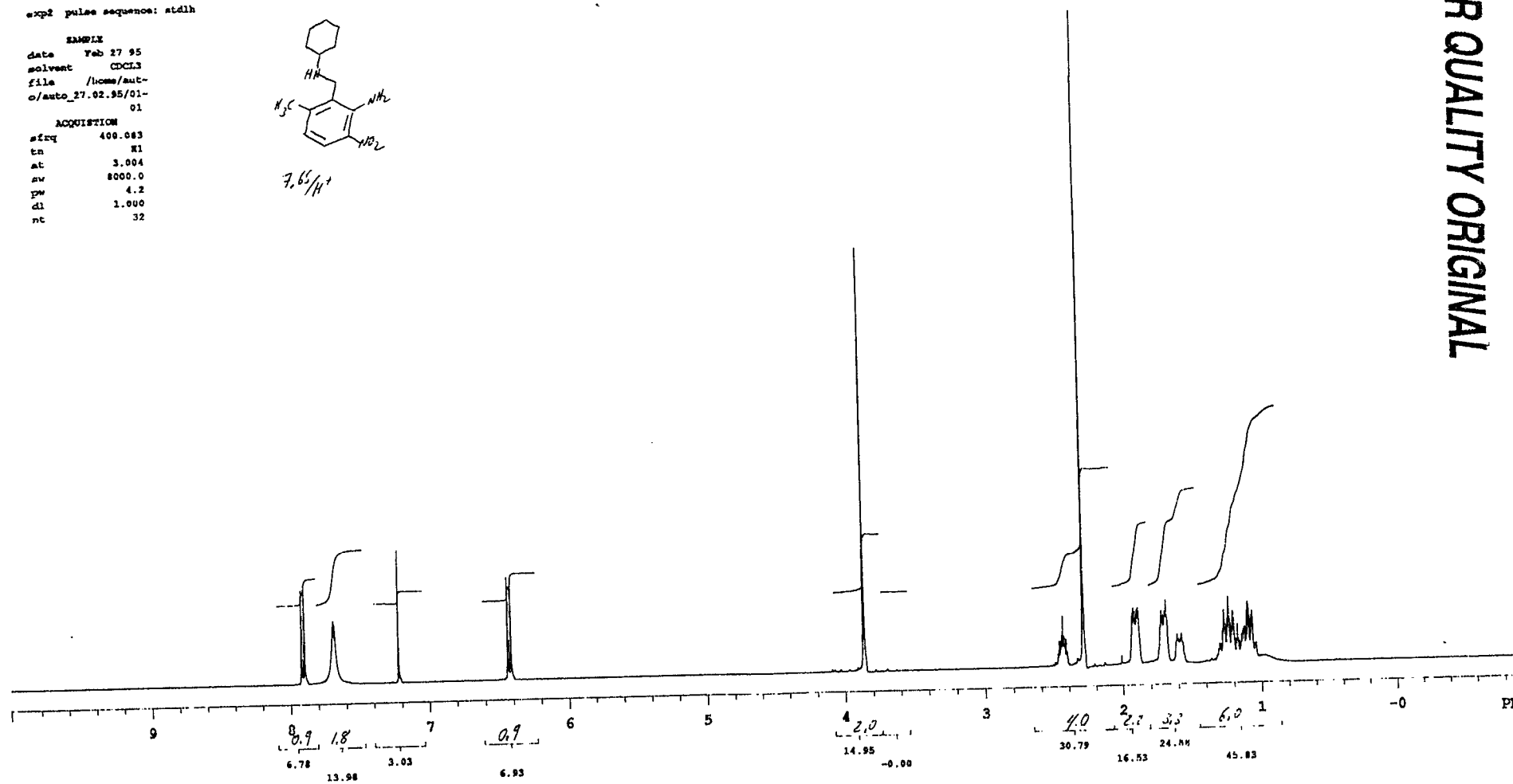
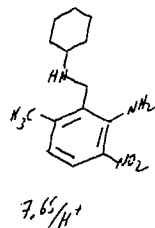
Table 1 # 10

38647x13/kornberg/h1/od13  
STANDARD IN OBSERVE

exp2 pulse sequence: std1h

SAMPLE  
date Feb 27 95  
solvent CDCl3  
file /home/aut-  
o/auto\_27.02.95/01-  
01

ACQUISITION  
freq 400.063  
tn K1  
at 3.004  
sv 8000.0  
pw 4.2  
di 1.000  
nt 32



POOR QUALITY ORIGINAL

Table 1 #10

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.921           | 3169.667       | 23.9   |
| 2     | 7.898           | 3166.634       | 24.9   |
| 3     | 7.690           | 3076.779       | 16.1   |
| 4     | 7.226           | 2896.983       | 24.3   |
| 5     | 7.224           | 2896.250       | 33.7   |
| 6     | 6.440           | 2576.520       | 26.0   |
| 7     | 6.418           | 2567.730       | 25.7   |
| 8     | 3.868           | 1547.680       | 109.3  |
| 9     | -2.478          | 991.511        | 3.4    |
| 10    | 2.469           | 987.848        | 6.5    |
| 11    | 2.459           | 983.942        | 4.7    |
| 12    | 2.453           | 981.256        | 7.9    |
| 13    | 2.443           | 977.594        | 12.8   |
| 14    | 2.434           | 973.932        | 8.0    |
| 15    | 2.428           | 971.490        | 5.1    |
| 16    | 2.418           | 967.584        | 7.0    |
| 17    | -2.409          | 963.922        | 4.0    |
| 18    | -2.294          | 917.778        | 168.0  |
| 19    | 2.009           | 803.761        | 2.5    |
| 20    | 1.922           | 768.847        | 14.4   |
| 21    | 1.898           | 759.326        | 14.2   |
| 22    | 1.891           | 756.396        | 14.5   |
| 23    | -1.730          | 692.185        | 10.0   |
| 24    | 1.721           | 688.523        | 13.6   |
| 25    | 1.711           | 684.616        | 12.3   |
| 26    | 1.698           | 679.489        | 13.6   |
| 27    | 1.689           | 675.583        | 16.3   |
| 28    | 1.606           | 642.379        | 7.6    |
| 29    | 1.596           | 638.472        | 6.4    |
| 30    | 1.585           | 634.078        | 6.3    |
| 31    | 1.576           | 630.416        | 7.7    |
| 32    | -1.566          | 626.509        | 5.7    |
| 33    | -1.507          | 522.746        | 3.6    |
| 34    | 1.299           | 519.572        | 5.0    |
| 35    | 1.277           | 511.027        | 8.6    |
| 36    | 1.269           | 507.853        | 13.4   |
| 37    | 1.239           | 495.890        | 16.9   |
| 38    | 1.222           | 488.810        | 5.4    |
| 39    | 1.207           | 482.706        | 13.2   |
| 40    | 1.178           | 471.475        | 6.0    |
| 41    | 1.171           | 468.545        | 9.8    |
| 42    | 1.164           | 465.616        | 6.2    |
| 43    | 1.150           | 460.244        | 4.2    |
| 44    | 1.142           | 456.826        | 7.4    |
| 45    | 1.130           | 452.187        | 8.5    |
| 46    | 1.122           | 449.013        | 8.9    |
| 47    | 1.098           | 439.248        | 15.4   |
| 48    | 1.067           | 427.040        | 13.2   |
| 49    | -1.045          | 418.007        | 4.9    |
| 50    | 1.036           | 414.344        | 5.2    |

38687x13/kornberg/h1/odal3  
STANDARD 1K OBSERVE

exp2 pulse sequence: std1h

```

SAMPLE                                DEC. & VT
data      Feb 27 95      dfrq      400.082
solvent    CDCL3      dn      H1
file      /home/aut- dpr      4
o/auto_27.02.95/01- dnf      0
                        01      mmn
ACQUISITION      dnm      c
sfrq      400.083      dmf      200
tn      H1      dseq      undefined
at      3.004      dres      undefined
np      48064      homo      n
sv      8000.0      PROCESSING
fb      4400      lb      0.20
be      16      wfile
tpwr      60      pproc      ft
pw      4.2      fn      not used
dl      1.000      math      f
tof      500.0
nt      32      warr      react
ot      32      wexp      hlp
alook      s      vba
gain      not used      wnt

FLAGS
il      n
in      n
dp      y
hs      nn

DISPLAY
sp      -400.1
wp      6401.3
vs      83
sc      0
wc      400
hnm      16.00
is      500.00
rfl      3970.3
rfp      2896.6
th      2
ins      1.000
ai      ode ph

```

POOR QUALITY ORIGINAL

Table 1 #11

5338x18/kornberg/hl/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: std1h

SAMPLE  
date Aug 10 95  
solvent CDCL3  
file /home/aut-  
o/auto\_10.08.95/01-  
01  
ACQUISITION  
sfreq 400.083  
ta 81  
at 3.004  
sw 8000.0  
pw 4.2  
di 1.000  
nt 32

(CR106)

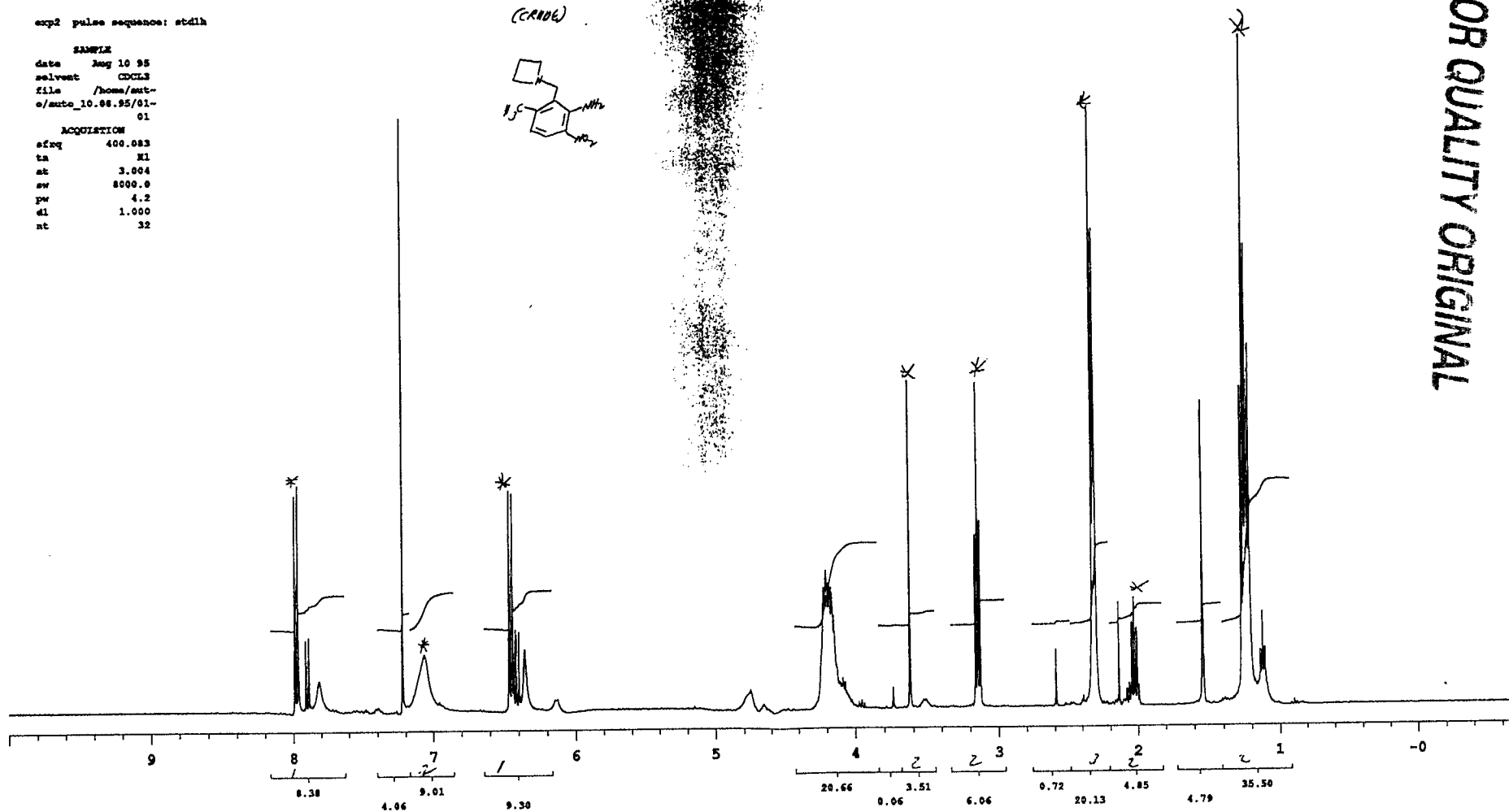
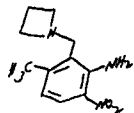


Table 1 #11

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.991           | 3197.144       | 53.2   |
| 2     | 7.969           | 3188.111       | 55.7   |
| 3     | 7.912           | 3165.405       | 17.4   |
| 4     | 7.890           | 3156.616       | 18.2   |
| 5     | 7.813           | 3125.853       | 7.5    |
| 6     | 7.222           | 2889.518       | 148.1  |
| 7     | 7.065           | 2826.772       | 13.8   |
| 8     | 6.958           | 2783.802       | 2.2    |
| 9     | 6.467           | 2587.262       | 54.3   |
| 10    | 6.445           | 2578.473       | 53.5   |
| 11    | 6.421           | 2568.951       | 19.6   |
| 12    | 6.399           | 2560.162       | 19.1   |
| 13    | 6.358           | 2543.804       | 14.8   |
| 14    | 6.128           | 2451.516       | 2.5    |
| 15    | 4.756           | 1902.671       | 4.5    |
| 16    | 4.221           | 1688.797       | 29.5   |
| 17    | 4.203           | 1681.717       | 34.1   |
| 18    | 4.182           | 1673.172       | 30.9   |
| 19    | 4.168           | 1667.557       | 29.6   |
| 20    | 4.164           | 1666.092       | 28.4   |
| 21    | 4.150           | 1660.476       | 22.7   |
| 22    | 4.133           | 1653.396       | 11.1   |
| 23    | 4.105           | 1642.409       | 6.3    |
| 24    | 4.096           | 1638.747       | 5.6    |
| 25    | 4.087           | 1635.329       | 7.4    |
| 26    | 4.070           | 1628.249       | 6.3    |
| 27    | 4.059           | 1624.098       | 4.1    |
| 28    | 4.052           | 1621.168       | 3.6    |
| 29    | 4.042           | 1617.018       | 3.0    |
| 30    | 3.738           | 1495.432       | 4.9    |
| 31    | 3.622           | 1449.288       | 80.8   |
| 32    | 3.163           | 1265.445       | 42.3   |
| 33    | 3.145           | 1258.364       | 80.2   |
| 34    | 3.128           | 1251.284       | 45.9   |
| 35    | 2.591           | 1036.434       | 14.1   |
| 36    | 2.390           | 956.353        | 2.6    |
| 37    | 2.324           | 929.985        | 150.0  |
| 38    | 2.306           | 922.417        | 118.6  |
| 39    | 2.137           | 854.788        | 25.4   |
| 40    | 2.080           | 832.082        | 4.2    |
| 41    | 2.061           | 824.757        | 5.7    |
| 42    | 2.044           | 817.677        | 20.3   |
| 43    | 2.026           | 810.597        | 26.5   |
| 44    | 2.009           | 803.761        | 19.0   |
| 45    | 2.005           | 802.052        | 17.9   |
| 46    | 1.991           | 796.680        | 5.1    |
| 47    | 1.543           | 617.476        | 75.1   |
| 48    | 1.269           | 507.609        | 78.8   |
| 49    | 1.251           | 500.529        | 168.0  |
| 50    | 1.233           | 493.448        | 114.5  |
| 51    | 1.218           | 487.345        | 42.5   |
| 52    | 1.210           | 484.171        | 89.4   |
| 53    | 1.176           | 470.499        | 6.3    |
| 54    | 1.141           | 456.338        | 13.6   |
| 55    | 1.122           | 449.013        | 22.7   |
| 56    | 1.105           | 441.933        | 14.1   |

53308x19/kornberg/h1/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

```

NAMEFILE          DEC. 4 VT
date      Aug 10 95  dfrq      400.082
solvent    CDCL3    dn      N1
file      /home/aut- dprw      4
o/auto_10.08.95/01- dof      0
                      01  dn      nan
ACQUISITION      dnm      c
dfrq      400.083  dmf      200
tn      N1  dseq      undefined
at      3.004  dres      undefined
rp      48064  homo      n
sw      8000.0  PROCESSING
zb      4400  lb      0.20
be      16  wfile
tpwr      60  proc      ft
pw      4.2  fn      not used
dl      1.000  math      f
tof      500.0
nt      32  warr      react
ot      32  wexp      hlp
alook      n  sba
gain      not used  wnt

FLAGS
il      n
in      n
dp      y
hs      nn

DISPLAY
sp      -400.1
vp      6401.3
vs      250
sa      0
wa      400
hnm      16.00
ls      500.00
rfl      3970.3
rfp      2896.6
th      2
lms      1.000
ai  oda  ph

```

POOR QUALITY ORIGINAL

Table 1 #12

38687x80/kornberg/h1/odol3  
STANDARD 1X OBSERVE

exp2 pulse sequence: std1h

SAMPLE  
date Feb 22 95  
solvent CDCL3  
file /home/aut-  
o/msto\_22.02.95/01-  
01

ACQUISITION  
freq 400.083  
ts H1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

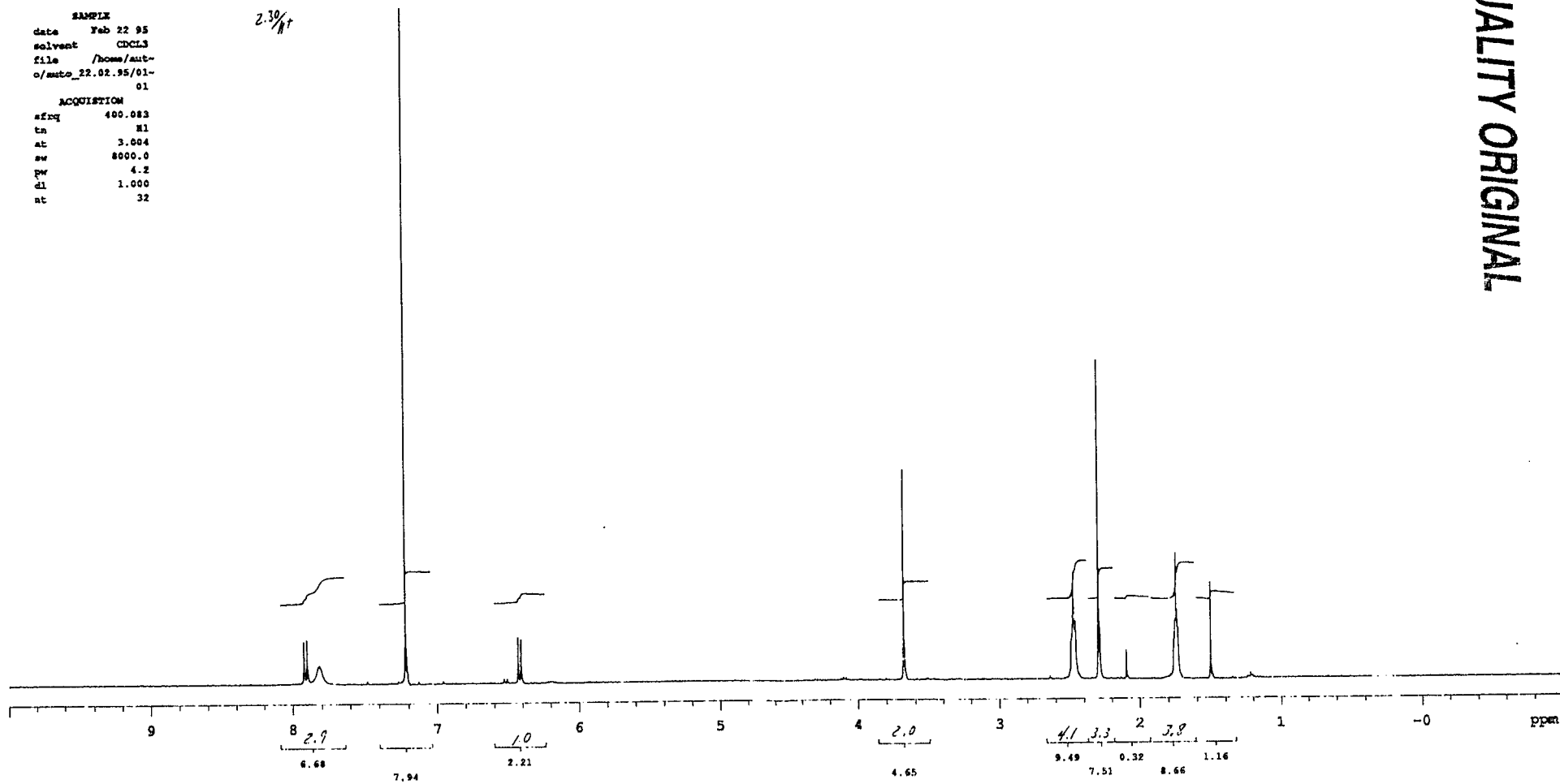
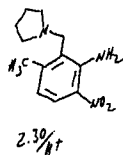


Table 1 # 12

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.923           | 3170.044       | 10.8   |
| 2     | 7.901           | 3161.010       | 11.2   |
| 3     | 7.818           | 3127.806       | 4.7    |
| 4     | 7.222           | 2889.518       | 168.0  |
| 5     | 7.219           | 2888.053       | 31.2   |
| 6     | 6.433           | 2573.590       | 11.6   |
| 7     | 6.411           | 2564.801       | 11.1   |
| 8     | 3.682           | 1473.215       | 52.8   |
| 9     | 2.499           | 999.812        | 2.4    |
| 10    | 2.488           | 996.882        | 9.6    |
| 11    | 2.488           | 995.417        | 10.2   |
| 12    | 2.475           | 990.290        | 26.8   |
| 13    | 2.462           | 984.919        | 13.0   |
| 14    | 2.458           | 983.454        | 14.4   |
| 15    | 2.298           | 919.243        | 79.9   |
| 16    | 2.288           | 915.580        | 13.8   |
| 17    | 2.096           | 838.674        | 7.1    |
| 18    | 1.765           | 706.346        | 9.9    |
| 19    | 1.758           | 703.172        | 14.6   |
| 20    | 1.748           | 699.509        | 31.5   |
| 21    | 1.740           | 696.091        | 17.4   |
| 22    | 1.732           | 692.917        | 12.9   |
| 23    | 1.507           | 602.827        | 24.1   |

38687x80/kornberg/hl/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdlh

SAMPLE DEC. 4 VT  
date Feb 22 95 dfrq 400.082  
solvent CDCL3 dn H1  
file /home/aut- dpwr 4  
o/auto\_22.02.95/01- dof 0  
01 da nan  
ACQUISITION dam a  
afreq 400.083 dmf 200  
tn H1 deeq undefined  
at 3.004 dres undefined  
np 48064 homo n  
sw 8000.0 PROCESSING  
fb 4400 lb 0.20  
bs 16 wfile  
tpwr 60 proc ft  
pw 4.2 fn not used  
di 1.000 math f  
tof 500.0  
nt 32 warr reacot  
ot 32 wexp hlp  
alook s wbs  
gain not used wnt  
FLAGS  
il n  
im n  
dp y  
hs nn  
DISPLAY  
sp -400.1  
wp 6401.3  
vs 107  
sc 0  
wc 400  
hzmm 16.00  
ls 500.00  
rfl 3970.3  
rfp 2896.6  
th 2  
ins 1.000  
al odc ph



POOR QUALITY ORIGINAL

Table 1 #13

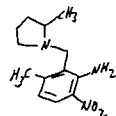
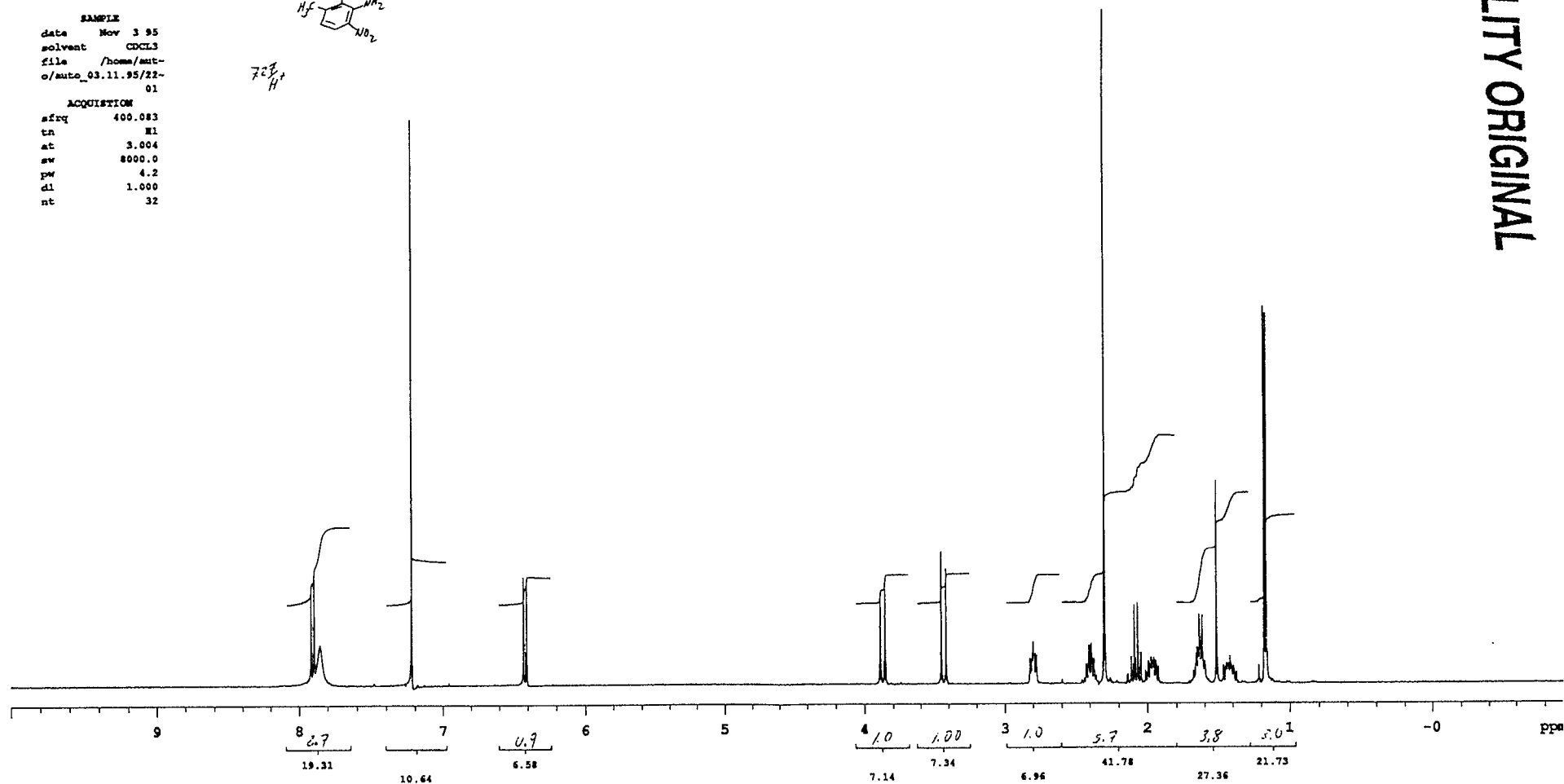
53308x121/kornberg/h1/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

## SAMPLE

date Nov 3 95  
solvent CDCL3  
file /home/mit-  
o/mta\_03.11.95/22-  
01

## ACQUISITION

sfrq 400.083  
tn R1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 3270%  
H

# Table 1 #13

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT | INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|-------|-----------------|----------------|--------|
| 1     | 7.818           | 3167.846       | 25.0   | 63    | 1.163           | 465.371        | 92.6   |
| 2     | 7.895           | 3158.813       | 26.5   |       |                 |                |        |
| 3     | 7.855           | 3142.455       | 10.2   |       |                 |                |        |
| 4     | 7.222           | 2889.518       | 141.5  |       |                 |                |        |
| 5     | 6.431           | 2572.858       | 26.9   |       |                 |                |        |
| 6     | 6.408           | 2563.824       | 25.8   |       |                 |                |        |
| 7     | 3.891           | 1556.713       | 20.5   |       |                 |                |        |
| 8     | 3.858           | 1543.529       | 23.7   |       |                 |                |        |
| 9     | 3.452           | 1380.927       | 33.0   |       |                 |                |        |
| 10    | 3.419           | 1367.743       | 28.7   |       |                 |                |        |
| 11    | 2.823           | 1129.454       | 6.4    |       |                 |                |        |
| 12    | 2.814           | 1125.792       | 5.9    |       |                 |                |        |
| 13    | 2.805           | 1122.374       | 7.7    |       |                 |                |        |
| 14    | 2.798           | 1119.444       | 10.7   |       |                 |                |        |
| 15    | 2.791           | 1116.758       | 7.4    |       |                 |                |        |
| 16    | 2.782           | 1113.096       | 7.6    |       |                 |                |        |
| 17    | 2.774           | 1109.678       | 7.2    |       |                 |                |        |
| 18    | 2.423           | 969.537        | 4.9    |       |                 |                |        |
| 19    | 2.404           | 961.969        | 9.6    |       |                 |                |        |
| 20    | 2.389           | 955.621        | 10.0   |       |                 |                |        |
| 21    | 2.370           | 948.052        | 6.4    |       |                 |                |        |
| 22    | 2.298           | 919.487        | 160.0  |       |                 |                |        |
| 23    | 2.140           | 856.008        | 2.1    |       |                 |                |        |
| 24    | 2.136           | 854.543        | 2.4    |       |                 |                |        |
| 25    | 2.113           | 845.266        | 6.7    |       |                 |                |        |
| 26    | 2.091           | 836.476        | 18.6   |       |                 |                |        |
| 27    | 2.068           | 827.443        | 20.1   |       |                 |                |        |
| 28    | 2.046           | 818.654        | 7.8    |       |                 |                |        |
| 29    | 2.015           | 806.202        | 3.3    |       |                 |                |        |
| 30    | 1.896           | 798.634        | 5.6    |       |                 |                |        |
| 31    | 1.877           | 790.821        | 6.6    |       |                 |                |        |
| 32    | 1.869           | 787.647        | 5.3    |       |                 |                |        |
| 33    | 1.866           | 786.426        | 5.1    |       |                 |                |        |
| 34    | 1.860           | 783.985        | 6.5    |       |                 |                |        |
| 35    | 1.846           | 778.613        | 5.7    |       |                 |                |        |
| 36    | 1.827           | 771.045        | 4.2    |       |                 |                |        |
| 37    | 1.681           | 672.653        | 3.2    |       |                 |                |        |
| 38    | 1.664           | 665.817        | 7.7    |       |                 |                |        |
| 39    | 1.656           | 662.643        | 9.2    |       |                 |                |        |
| 40    | 1.648           | 659.469        | 8.2    |       |                 |                |        |
| 41    | 1.640           | 656.295        | 17.1   |       |                 |                |        |
| 42    | 1.634           | 653.610        | 11.7   |       |                 |                |        |
| 43    | 1.626           | 650.680        | 10.7   |       |                 |                |        |
| 44    | 1.618           | 647.262        | 17.0   |       |                 |                |        |
| 45    | 1.601           | 640.670        | 5.6    |       |                 |                |        |
| 46    | 1.596           | 638.717        | 5.3    |       |                 |                |        |
| 47    | 1.515           | 606.245        | 50.6   |       |                 |                |        |
| 48    | 1.466           | 586.469        | 4.7    |       |                 |                |        |
| 49    | 1.451           | 580.365        | 4.3    |       |                 |                |        |
| 50    | 1.445           | 578.168        | 5.1    |       |                 |                |        |
| 51    | 1.441           | 576.459        | 4.8    |       |                 |                |        |
| 52    | 1.435           | 574.261        | 5.1    |       |                 |                |        |
| 53    | 1.430           | 572.308        | 5.0    |       |                 |                |        |
| 54    | 1.426           | 570.355        | 4.4    |       |                 |                |        |
| 55    | 1.419           | 567.914        | 6.9    |       |                 |                |        |
| 56    | 1.415           | 565.960        | 5.5    |       |                 |                |        |
| 57    | 1.405           | 562.298        | 3.9    |       |                 |                |        |
| 58    | 1.395           | 558.148        | 4.4    |       |                 |                |        |
| 59    | 1.390           | 556.194        | 3.8    |       |                 |                |        |
| 60    | 1.374           | 549.602        | 2.8    |       |                 |                |        |
| 61    | 1.216           | 486.612        | 4.6    |       |                 |                |        |
| 62    | 1.178           | 471.475        | 94.2   |       |                 |                |        |

53308x121/kornberg/h1/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: std1h

```

SAMPLE          DEC. & VT
date    Nov 3 95   dfrq      400.082
solvent  CDCL3    dn      N1
file     /home/aut- dpwr      4
o/muto_03.11.95/22- dof      0
                   01  dn      nnn
ACQUISITION      dm      c
sfrq      400.083  dmf      200
tn        N1    dseq      undefined
at        3.004  dres      undefined
np      48064    homo      n
aw      8000.0    PROCESSING
fb      4400    lb      0.20
bs      16      wtfile
tpwr      60    proc      ft
pw      4.2    fa      not used
dl      1.000  math      f
tof      500.0
nt      32      werr      react
ot      32      wexp      hip
alook    s      vbs
gain      not used  wnt

FLAGS
il      n
in      n
dp      y
hs      nn

DISPLAY
sp      -400.1
wp      6401.3
vs      76
sc      0
wo      400
hxmm    16.00
is      500.00
rfl      3970.3
zfp      2896.6
th      2
ins      1.000
ai  oda  ph

```

POOR QUALITY ORIGINAL

Table 1 # 14

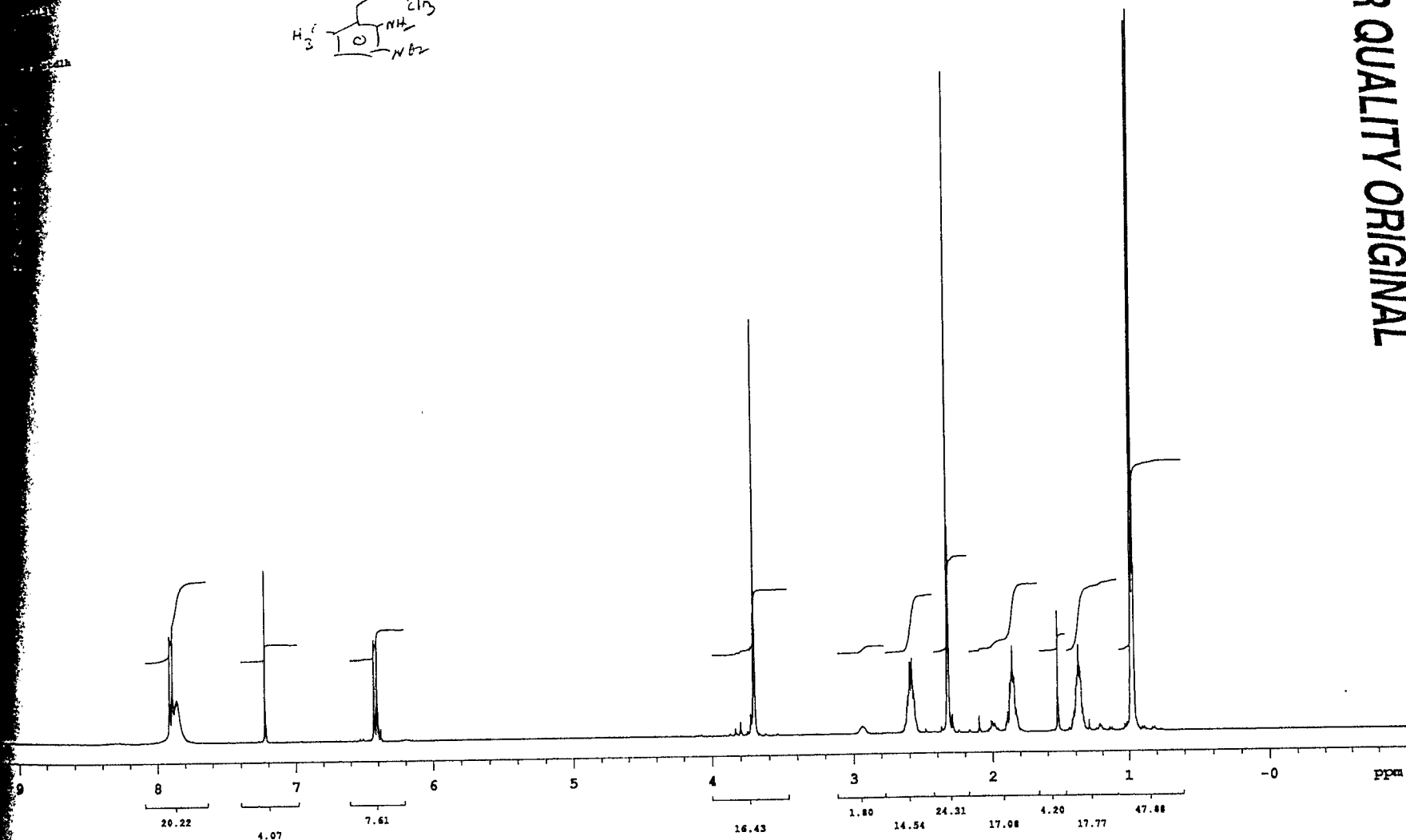
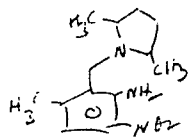


Table 1 #14

| PPM      | FREQUENCY (Hz) | HEIGHT |
|----------|----------------|--------|
| 3166.626 | 26.8           |        |
| 3157.836 | 29.6           |        |
| 3144.652 | 10.6           |        |
| 2890.983 | 43.1           |        |
| 2888.541 | 9.6            |        |
| 2573.102 | 25.2           |        |
| 2564.212 | 24.9           |        |
| 2553.082 | 3.0            |        |
| 1520.091 | 3.4            |        |
| 1491.526 | 5.3            |        |
| 1483.469 | 105.1          |        |
| 1050.838 | 2.7            |        |
| 1044.735 | 9.3            |        |
| 1039.364 | 17.7           |        |
| 1033.504 | 18.6           |        |
| 1027.889 | 10.6           |        |
| 1022.273 | 3.8            |        |
| 930.473  | 168.0          |        |
| 927.788  | 52.0           |        |
| 815.825  | 4.5            |        |
| 839.162  | 4.1            |        |
| 804.249  | 2.9            |        |
| 800.343  | 2.6            |        |
| 794.239  | 2.4            |        |
| 760.791  | 2.5            |        |
| 756.884  | 5.1            |        |
| 755.175  | 4.9            |        |
| 750.292  | 12.2           |        |
| 748.095  | 10.9           |        |
| 745.653  | 14.8           |        |
| 743.212  | 21.5           |        |
| 740.770  | 15.0           |        |
| 738.817  | 13.8           |        |
| 736.864  | 13.6           |        |
| 732.469  | 5.9            |        |
| 730.516  | 6.0            |        |
| 726.854  | 3.6            |        |
| 612.349  | 30.2           |        |
| 570.355  | 3.1            |        |
| 565.472  | 5.1            |        |
| 563.275  | 5.7            |        |
| 559.368  | 12.1           |        |
| 557.904  | 13.6           |        |
| 555.950  | 12.8           |        |
| 552.776  | 21.7           |        |
| 550.091  | 17.0           |        |
| 548.382  | 14.0           |        |
| 546.184  | 16.1           |        |
| 542.278  | 6.6            |        |
| 539.348  | 5.9            |        |
| 534.954  | 3.5            |        |
| 519.328  | 3.0            |        |
| 406.776  | 2.2            |        |
| 396.033  | 180.5          |        |
| 393.592  | 68.3           |        |
| 389.930  | 183.5          |        |
| 387.244  | 63.5           |        |
| 379.431  | 3.3            |        |

38332x139/nikam/odol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

```

SAMPLE          DEC. & VT
date    Feb 28 95  dfrq    400.082
solvent  CDCL3  dn      N1
file     /home/aut- dpwr    4
o/auto_28.02.95/65- dof    0
                        01  dn      nn
ACQUISITION      dm      c
afreq    400.083  dmf      200
tn        N1  dseq  undefined
at        3.004  dres  undefined
np      48064  homo    n
sw      8000.0  PROCESSING
fb      4400  lb      0.20
bs        16  wtfila
tpwr       60  proc      ft
pw        4.2  fn      not used
dl      1.000  math      f
tof       500.0
nt        32  warr      react
ct        32  wexp      hip
alook      s  wbs
gain      not used  wnt
FLAGS
il      n
in      n
dp      y
hs      nn
DISPLAY
sp      -400.1
vp      6401.3
vs      86
sc      0
wu      400
hmm      16.00
ls      500.00
rfl      3970.3
rfp      2896.6
th      2
ins      1.000
ai  odo  ph

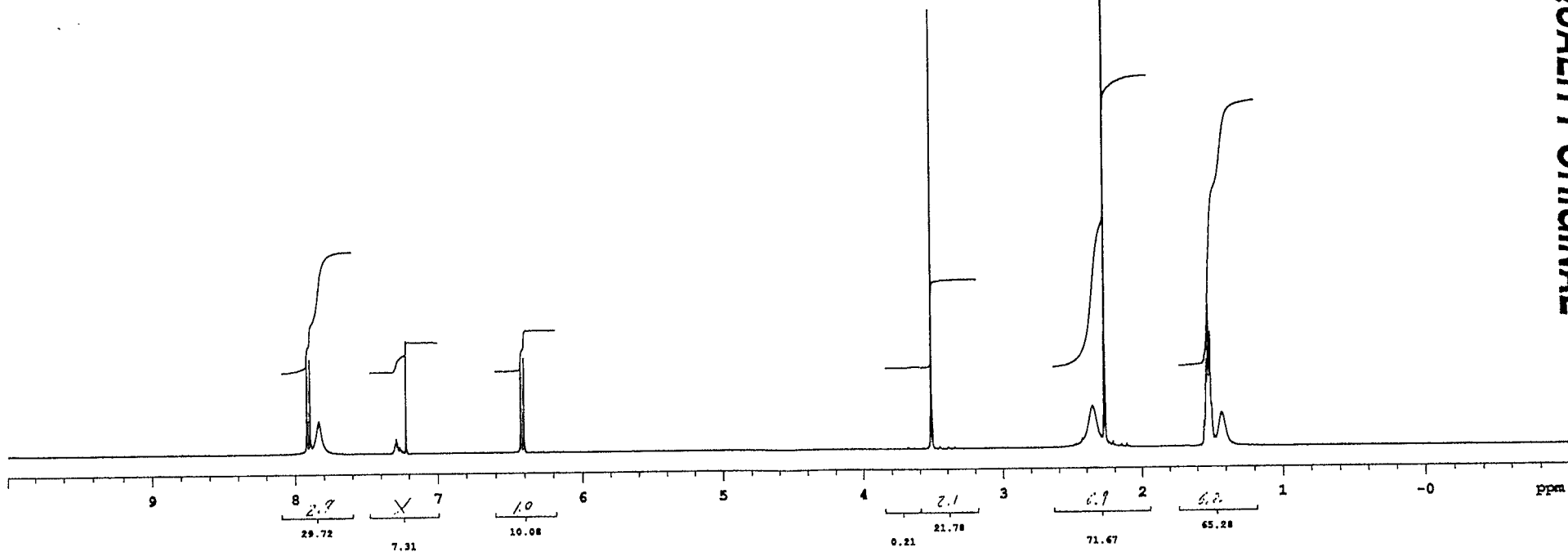
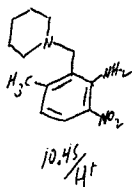
```

POOR QUALITY ORIGINAL

3464726/bernberg/h1/odol3  
STANDARD 18 OBSERVE

exp2 pulse sequence: std1h

SAMPLE  
date Dec 30 94  
solvent CDCl3  
file /home/aut-  
o/autco\_30.12.94/07-  
01  
ACQUISITION  
freq 400.083  
tm M1  
at 3.004  
sw 8000.0  
pw 4.2  
d1 1.000  
nt 32



POOR QUALITY ORIGINAL

Table 1 #15

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.920           | 3168.823       | 22.5   |
| 2     | 7.898           | 3159.790       | 23.4   |
| 3     | 7.836           | 3134.886       | 8.2    |
| 4     | 7.299           | 2920.280       | 2.2    |
| 5     | 7.291           | 2917.106       | 3.6    |
| 6     | 7.288           | 2915.641       | 3.5    |
| 7     | 7.283           | 2913.932       | 2.9    |
| 8     | 7.222           | 2889.274       | 27.8   |
| 9     | -6.427          | 2571.393       | 24.2   |
| 10    | -6.405          | 2562.359       | 23.3   |
| 11    | 3.518           | 1407.295       | 108.7  |
| 12    | 2.428           | 971.246        | 2.5    |
| 13    | 2.354           | 941.704        | 10.3   |
| 14    | 2.270           | 908.256        | 168.0  |
| 15    | -1.547          | 618.941        | 6.5    |
| 16    | -1.532          | 613.081        | 21.6   |
| 17    | -1.519          | 607.710        | 25.1   |
| 18    | -1.506          | 602.338        | 28.3   |
| 19    | -1.493          | 597.211        | 10.7   |
| 20    | -1.425          | 570.111        | 8.3    |

3868726/wordwang/h1/odn13  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

```

SAMPLE          DEC. & VT
date    Dec 30 94   dfrq    400.082
solvent  CDCL3      dm      H1
file     /home/mnt-  dprc      4
o/auto_30.12.94/07-  def      0
                        01      dm      mmn
ACQUISITION      dm      c
dfrq    400.082    dmf      200
tn       H1        dseq    undefined
st       3.004      dres    undefined
np       48064      hmc     n
sw       8000.0     PROCESSING
zb       4400       lb      0.20
be       16         wtfile
tpwr     60         proc    ft
pw       4.2        fa      not used
dl       1.000      math    f
tof       500.0
nt       32         wexr     react
et       32         wexp     hlp
alock     s         wbs
gain      not used   wnt
FLAG
il         n
in         n
dp         y
hs         nn
DISPLAY
sp        -400.1
wp        6401.3
vs         40
ss         0
wc         400
hzmm      16.00
is        500.00
rf1       3970.3
rfp       2896.6
th         2
ins       1.000
ai odc ph

```

POOR QUALITY ORIGINAL

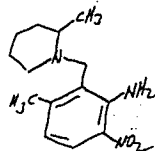
Table 1 #16

16679076: 16679076/1/00017  
16679076: 16679076

Map2: 16679076: 16679076

File: 16679076  
Solvent: CDCl<sub>3</sub>  
File: /home/aut-  
of/aut- 02.95/09-  
01

NOESY: 16679076  
Acq: 100.083  
Ch: 01  
At: 3.004  
Av: 8000.0  
Pw: 4.2  
dl: 1.000  
nt: 32



2.92  
/H<sup>+</sup>

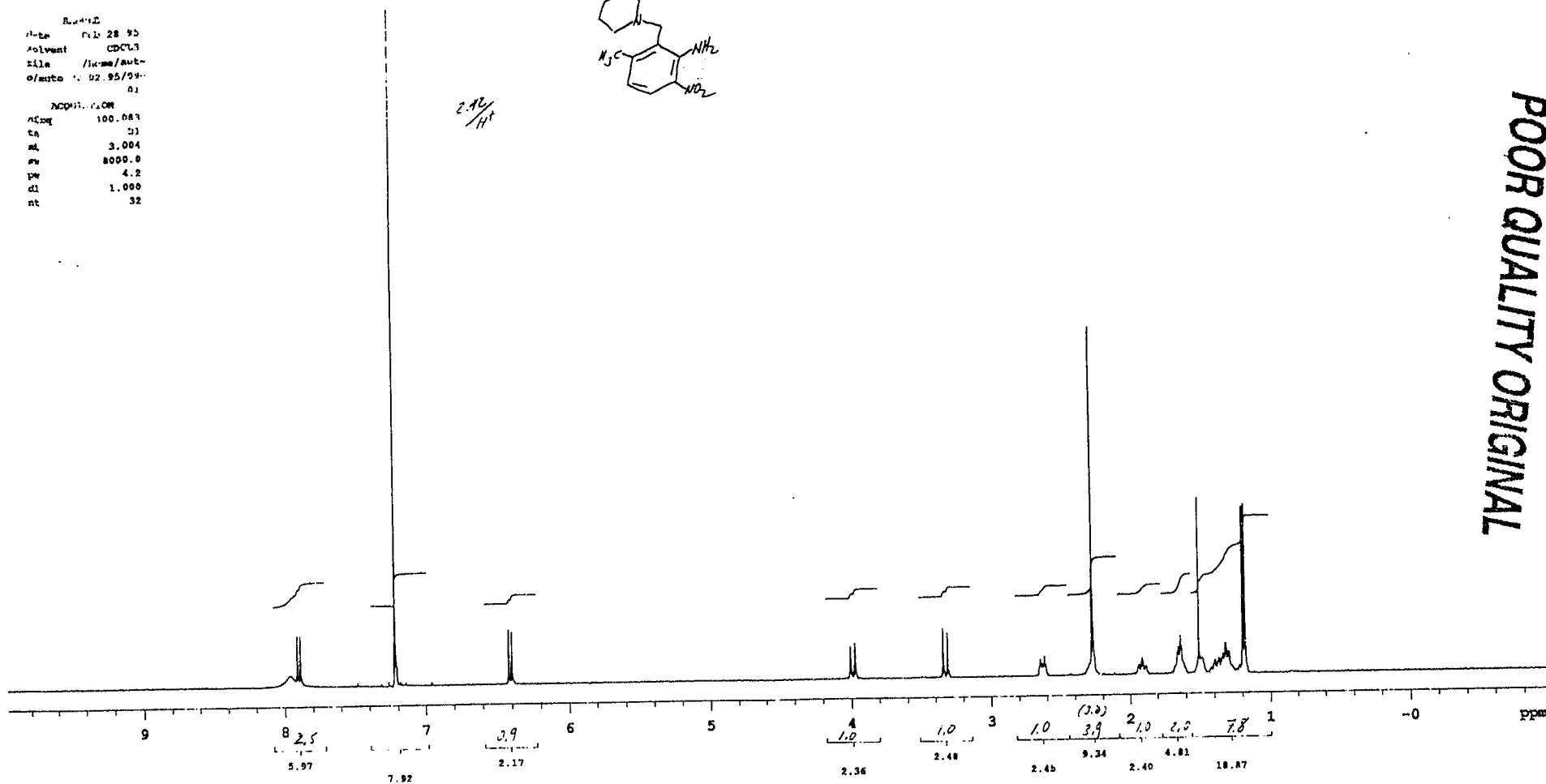


Table 1 #16

| FX | FREQENCY (PPM) | FREQENCY (Hz) | HEIGHT |
|----|----------------|---------------|--------|
|    | 7.914          | 3166.137      | 12.9   |
|    | 7.891          | 3157.104      | 12.8   |
|    | 7.224          | 2690.250      | 168.0  |
|    | 6.424          | 2579.172      | 13.6   |
|    | 6.402          | 2561.383      | 13.0   |
|    | 4.008          | 1603.346      | 8.0    |
|    | 3.975          | 1590.167      | 9.0    |
|    | 3.345          | 1338.445      | 12.3   |
|    | 3.312          | 1325.261      | 11.2   |
|    | 2.646          | 1058.651      | 4.3    |
|    | 2.636          | 1054.745      | 3.0    |
|    | 2.627          | 1051.083      | 3.0    |
|    | 2.617          | 1047.176      | 5.0    |
|    | -2.608         | 1043.270      | 3.0    |
|    | -2.273         | 909.233       | 86.5   |
|    | 1.910          | 743.965       | 4.1    |
|    | 1.651          | 660.690       | 6.9    |
|    | -1.636         | 654.342       | 9.6    |
|    | -1.507         | 603.071       | 43.3   |
|    | 1.490          | 596.235       | 4.0    |
|    | 1.481          | 582.373       | 4.0    |
|    | 1.394          | 557.659       | 3.3    |
|    | 1.367          | 546.917       | 3.8    |
|    | 1.349          | 539.592       | 3.7    |
|    | 1.337          | 534.954       | 4.9    |
|    | 1.319          | 527.873       | 7.6    |
|    | 1.315          | 526.164       | 7.4    |
|    | -1.299         | 519.572       | 5.4    |
|    | 1.194          | 477.823       | 41.2   |
|    | 1.179          | 471.719       | 41.8   |

3868799/kornberg/h1/edn13  
STANDARD JE OBSERVE

acq2 pulse sequence: std1h

```

NAME: DMC. A VT
date   Feb 28 95   dtime  100.082
solvent CDCl3   dn      H1
file   /home/nrl-   dpr    4
o/rate_20.02.95/95-   dnf    8
                        01   dn      rem
ACQUISITION
sfreq  400.043   dnf    200
tn      H1   dseq   undefined
at      3.064   dres   undefined
np      48064   homo    n
sw      8000.0   PROCESSING
fb      4400   lb      0.20
bs      16   wfile
tpwr    60   pps    ft
pw      4.2   fa      not used
dl      1.000   math    f
tof      500.0
nt      32   warr    react
et      32   wexp    hlp
alock    n   vbr
gain    not used   vnt

FLAGS
il      n
in      n
dp      y
hs      nm

DISPLAY
sp      -400.1
vp      6401.3
vs      119
sc      0
wu      400
hzmax   16.00
is      500.00
xfl      3970.3
xrp      2896.6
th      3
ins      1.000
al   odc   ph

```

POOR QUALITY ORIGINAL



POOR QUALITY ORIGINAL

TABLE 1 #17

18687x81/bornberg/h1/odol3  
STANDARD IN OBSERVE

exp? pulse sequence: stdih

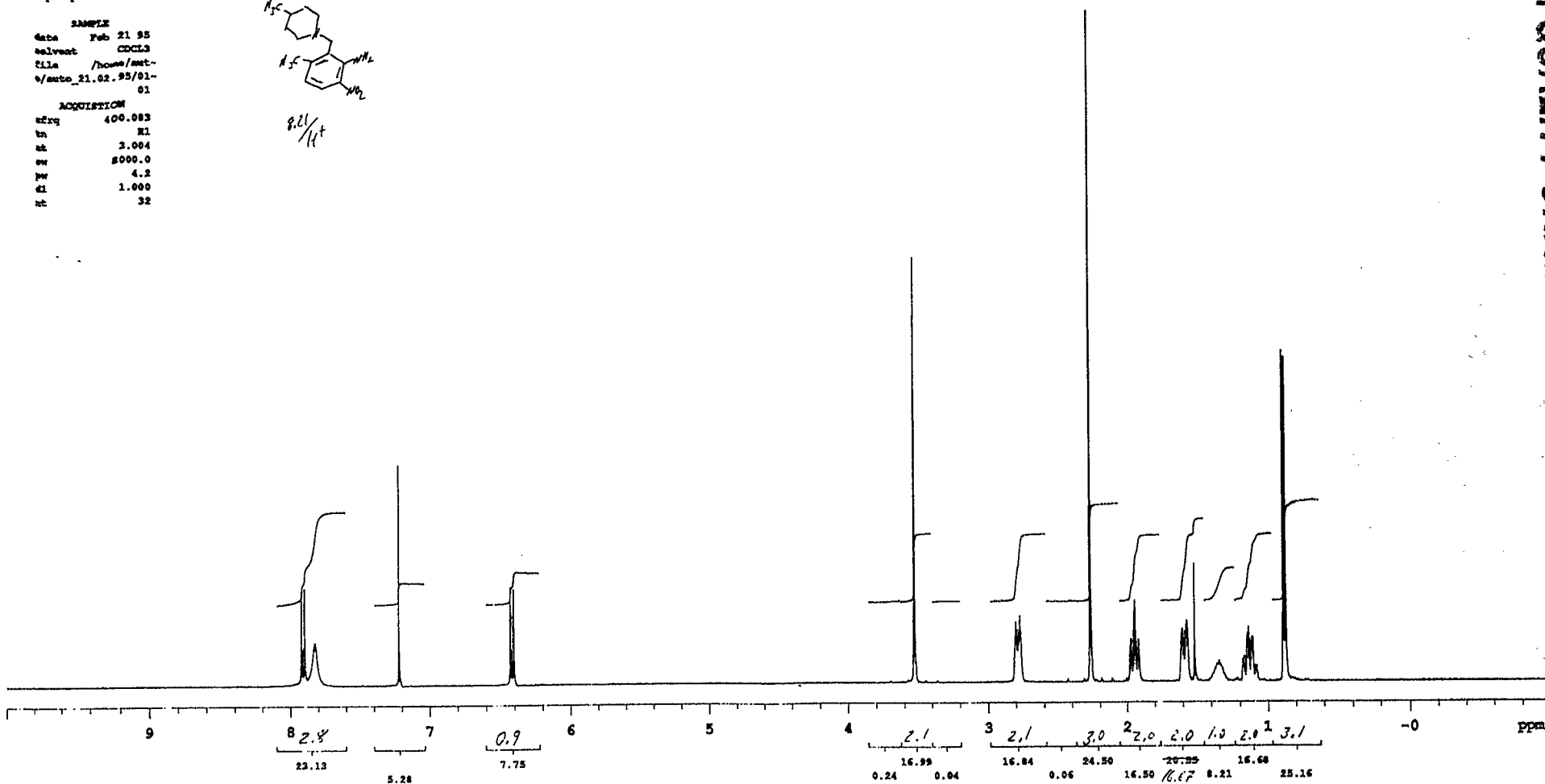
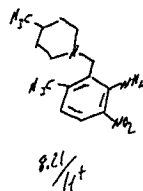
SAMPLE  
date Feb 21 95  
solvent CDCl3  
file /home/mst-  
v/aut\_21.02.95/01-  
01ACQUISITION  
freq 400.083  
in M1  
at 2.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32

Table 1 #17

| FX | FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|----|-----------------|----------------|--------|
|    | 7.822           | 3169.555       | 23.2   |
|    | 7.840           | 3169.766       | 24.1   |
|    | 7.828           | 3131.713       | 10.6   |
|    | 7.222           | 2889.518       | 54.9   |
|    | 6.429           | 2572.125       | 24.4   |
|    | 6.406           | 2563.092       | 23.7   |
|    | 3.531           | 1412.666       | 106.1  |
|    | 2.881           | 1120.665       | 15.0   |
|    | 2.772           | 1109.190       | 16.5   |
|    | 2.271           | 904.500        | 168.0  |
|    | -1.973          | 789.356        | 10.6   |
|    | -1.944          | 777.637        | 20.2   |
|    | -1.920          | 768.115        | 9.6    |
|    | -1.915          | 766.162        | 10.5   |
|    | 1.684           | 641.890        | 13.1   |
|    | 1.572           | 628.951        | 15.1   |
|    | 1.519           | 607.710        | 29.3   |
|    | -1.373          | 549.114        | 3.4    |
|    | 1.362           | 544.964        | 4.4    |
|    | 1.355           | 542.034        | 4.3    |
|    | 1.346           | 538.372        | 5.1    |
|    | 1.335           | 533.977        | 4.4    |
|    | -1.318          | 527.385        | 3.3    |
|    | -1.181          | 472.452        | 5.6    |
|    | 1.171           | 468.545        | 6.2    |
|    | 1.149           | 459.512        | 11.8   |
|    | 1.141           | 456.582        | 13.4   |
|    | 1.119           | 447.549        | 10.8   |
|    | 1.109           | 443.886        | 11.0   |
|    | -1.089          | 435.829        | 3.9    |
|    | 1.080           | 431.923        | 3.9    |
|    | 0.892           | 356.726        | 82.3   |
|    | 0.875           | 350.134        | 80.6   |

38687x81/hornberg/h1/edu13  
STANDARD IN OBSERVE

exp2 pulse sequence: rbdh

```

NAME          DBC, A VT
date    Feb 21 95    dfrq    400.082
solvent    CDCL3    dn      H1
file       /hnm/nut- dprx    4
e/auto_21.02.95/01- dnf      0
                        01    non
ACQUISITION      dn      a
afrq    400.083    dnf      200
tn      H1    dprx    undefined
nt      3.004    dprx    undefined
np      48864    homo    a
av      8000.0    PROCESSING
fb      4400    lb      0.20
be      16    vfile
tpwr    60    proc    ft
pw      4.2    fn      not used
dl      1.000    math    f
tof      500.0
nt      22    warr    reset
ot      22    warr    hlp
alock    a
gain      not used    wnt
      FLAG
il      n
in      a
dp      y
hs      nm
      DISPLAY
ap      -400.1
wp      6401.2
vs      64
as      0
ws      400
hnmn    16.00
ls      500.00
xfl      3970.2
xlp      2896.6
th      2
ins      1.000
ai      edc    ph

```

POOR QUALITY ORIGINAL

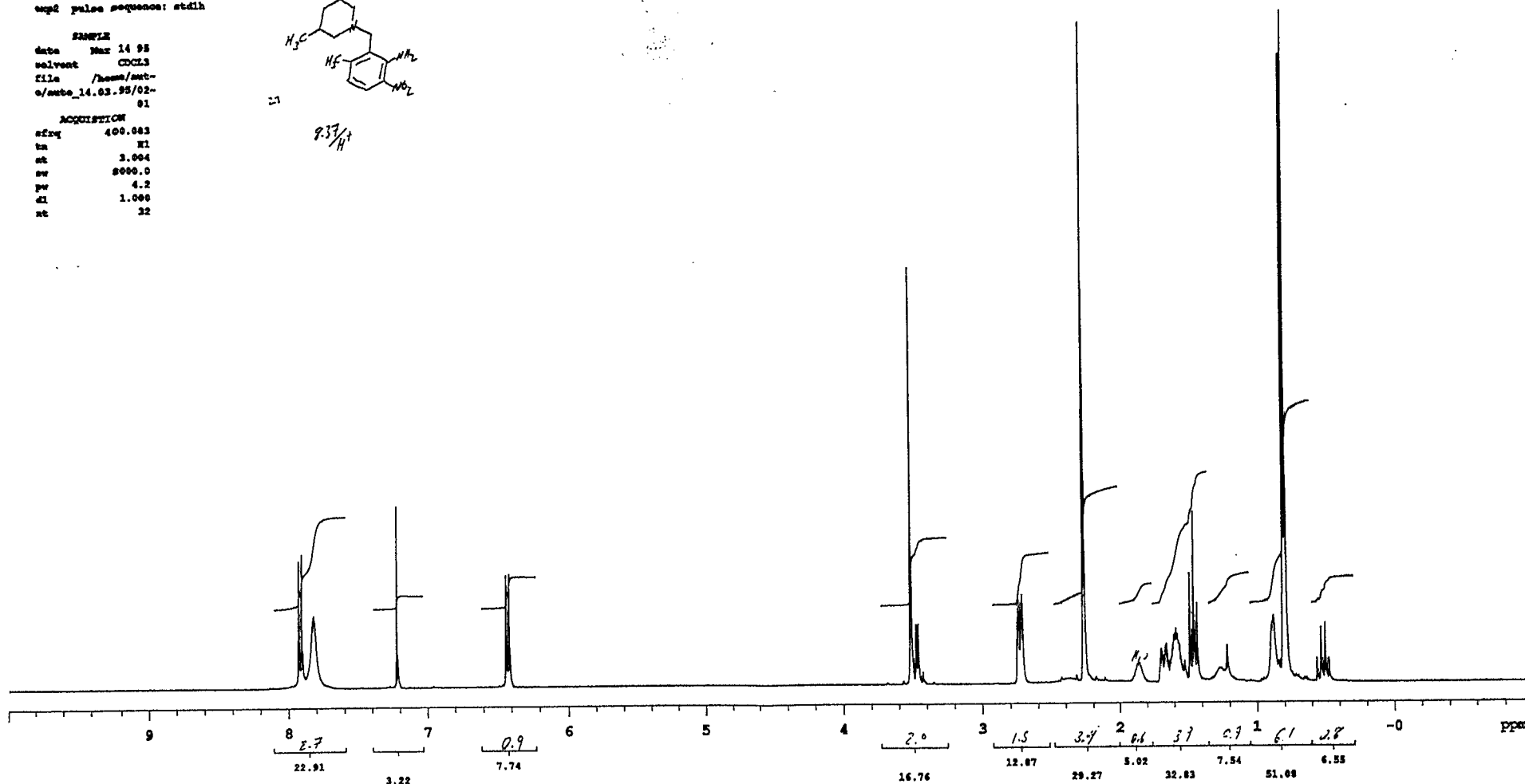
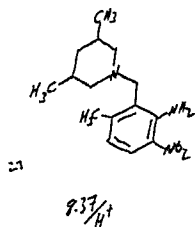
# Table 1 #18

30687x123/macthony/hl/edol3  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

SAMPLE  
date Mar 14 95  
solvent CDCL3  
file /chem/mct-  
o/mct\_14.03.95/02-  
01

ACQUISITION  
freq 400.043  
in H1  
at 3.004  
sw 8000.0  
pr 4.2  
cl 1.000  
nt 32



POOR QUALITY ORIGINAL

Table 1 #18

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | WRIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.831           | 3172.974       | 32.1   |
| 2     | 7.909           | 3164.184       | 33.8   |
| 3     | 7.821           | 3129.027       | 18.3   |
| 4     | 7.223           | 2889.762       | 45.8   |
| 5     | 7.214           | 2886.344       | 8.4    |
| 6     | 6.440           | 2576.520       | 28.2   |
| 7     | 6.418           | 2567.730       | 28.6   |
| 8     | 3.520           | 1408.271       | 105.9  |
| 9     | 3.479           | 1391.913       | 15.3   |
| 10    | 3.463           | 1385.566       | 15.5   |
| 11    | 3.430           | 1372.382       | 3.2    |
| 12    | 2.744           | 1097.715       | 19.2   |
| 13    | 2.740           | 1096.250       | 21.3   |
| 14    | 2.722           | 1089.170       | 18.6   |
| 15    | 2.718           | 1087.461       | 20.9   |
| 16    | 2.714           | 1085.752       | 22.5   |
| 17    | 2.322           | 929.009        | 2.2    |
| 18    | 2.274           | 909.721        | 168.0  |
| 19    | 2.269           | 907.768        | 102.0  |
| 20    | 2.226           | 890.433        | 2.3    |
| 21    | 1.858           | 743.212        | 5.1    |
| 22    | 1.697           | 678.757        | 8.6    |
| 23    | 1.692           | 677.048        | 8.5    |
| 24    | 1.688           | 675.339        | 7.7    |
| 25    | 1.674           | 669.723        | 4.8    |
| 26    | 1.665           | 666.061        | 9.3    |
| 27    | 1.661           | 664.352        | 9.6    |
| 28    | 1.656           | 662.643        | 9.9    |
| 29    | 1.639           | 655.807        | 4.4    |
| 30    | 1.629           | 651.901        | 5.6    |
| 31    | 1.621           | 648.482        | 6.5    |
| 32    | 1.612           | 644.820        | 9.7    |
| 33    | 1.602           | 640.914        | 12.1   |
| 34    | 1.594           | 637.740        | 12.6   |
| 35    | 1.585           | 634.322        | 13.8   |
| 36    | 1.574           | 629.927        | 12.4   |
| 37    | 1.567           | 626.753        | 10.7   |
| 38    | 1.558           | 623.335        | 9.8    |
| 39    | 1.549           | 619.917        | 6.8    |
| 40    | 1.542           | 616.987        | 4.6    |
| 41    | 1.533           | 613.325        | 3.4    |
| 42    | 1.522           | 608.930        | 5.6    |
| 43    | 1.486           | 594.826        | 27.7   |
| 44    | 1.459           | 583.539        | 42.8   |
| 45    | 1.432           | 572.797        | 20.2   |
| 46    | 1.268           | 507.121        | 3.7    |
| 47    | 1.218           | 487.101        | 9.3    |
| 48    | 0.880           | 352.087        | 16.9   |
| 49    | 0.846           | 338.414        | 5.2    |
| 50    | 0.840           | 336.217        | 5.5    |
| 51    | 0.814           | 325.475        | 159.6  |
| 52    | 0.806           | 322.545        | 50.0   |
| 53    | 0.798           | 319.127        | 170.5  |
| 54    | 0.750           | 300.083        | 2.8    |
| 55    | 0.564           | 225.618        | 6.1    |
| 56    | 0.532           | 213.411        | 14.0   |
| 57    | 0.504           | 201.447        | 15.1   |
| 58    | 0.475           | 189.972        | 5.9    |

30667d13/hornberg/h1/odell3  
STANDARD IN OBSERVE

exp1 pulse sequence: stdih

```

SAMPLE          DMC. & VT
data           Mar 14 95  dfrq      400.082
solvent        CDCL3      dn
file           /home/mrb-  dprx      4
o/srbs_14.03.95/82-  do2      0
                  81      dn      nam
ACQUISITION      dm      c
sfrq           400.083  dnf      200
tn             E1      dnoq     undefined
st            3.004     dnoe     undefined
sp            48864     hmoa      n
sw            8000.0    PROCESSING
sh            4400      lb      0.20
hs             16      wtfile
tpwr           60      pnce      ft
pw            4.2      fn      not used
dl            1.000     math      f
tef           500.0
nt             32      wvrv      reset
et             32      wvwp      hip
alock          a      vba
gain          not used  wnt

FLAGS
il            n
in            n
dp            y
hs            na

DISPLAY
sp           -400.1
wp           6401.3
vs           115
sa            0
ws           400
huma         16.00
is           500.00
xfl           3970.3
rfp           2896.6
th            2
lne           1.000
al odc ph

```

POOR QUALITY ORIGINAL

Table 1 #19

57007x120/nikama/h1/odc13  
STANDARD 1% OBSERVE

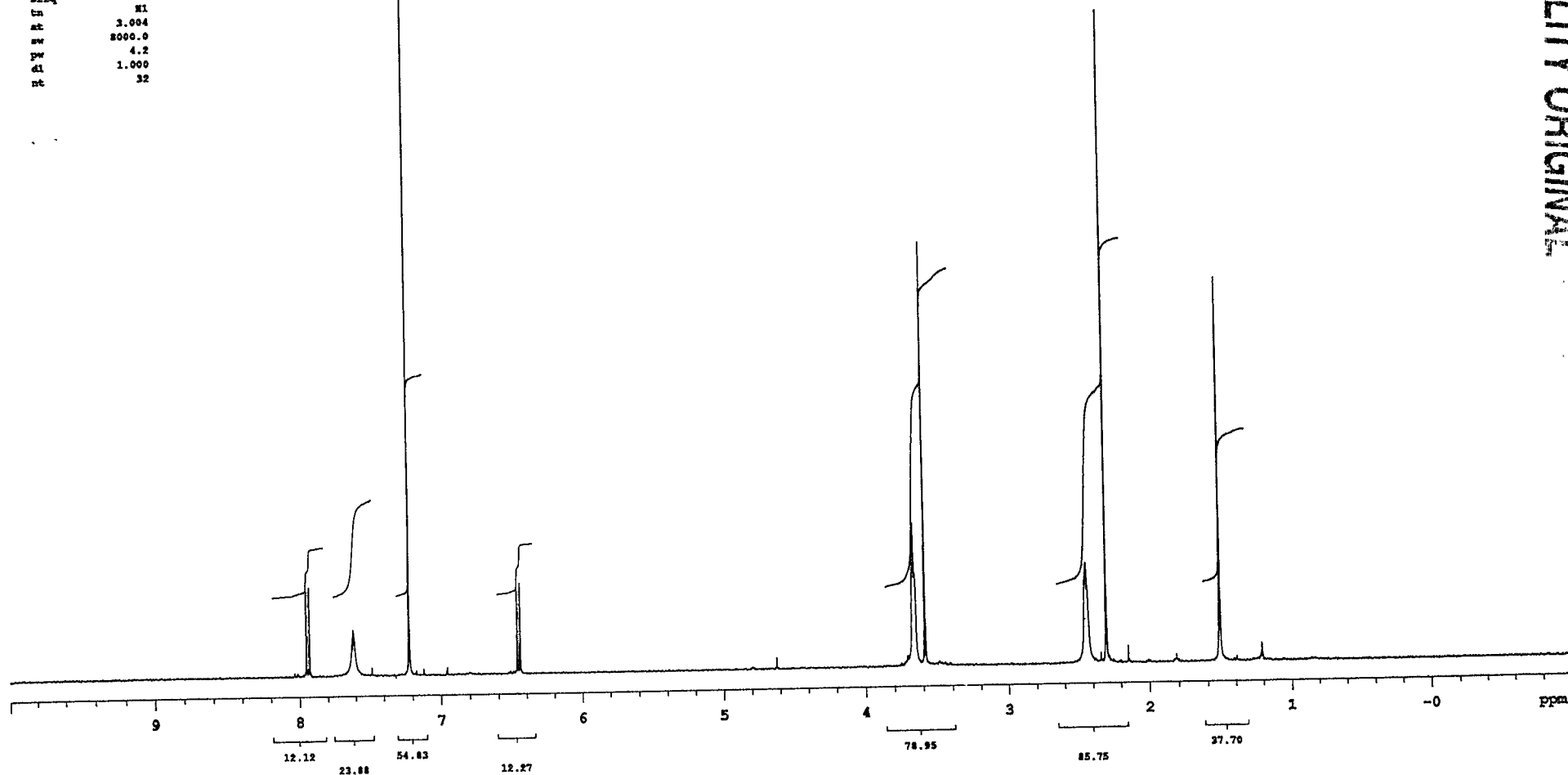
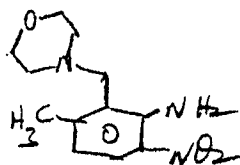
exptl stdih

SAMPLE

date Oct 28 96  
solvent CDCL3  
File /poma/aut-  
e/auts\_28.10.96/01-  
01

ACQUISITION

afreq 400.083  
in H1  
at 3.004  
sw 8000.0  
pw 4.2  
dl 1.000  
nt 32



POOR QUALITY ORIGINAL

| INDEX | FREQUENCY (PPM) | FREQUENCY (Hz) | BRIGHT |
|-------|-----------------|----------------|--------|
| 1     | 7.953           | 3182.007       | 21.7   |
| 2     | 7.931           | 3173.218       | 22.6   |
| 3     | 7.618           | 3047.726       | 11.8   |
| 4     | 7.222           | 2889.274       | 368.1  |
| 5     | 6.467           | 2587.506       | 23.4   |
| 6     | 6.445           | 2578.717       | 22.8   |
| 7     | 3.676           | 1470.529       | 24.5   |
| 8     | 3.664           | 1465.890       | 35.7   |
| 9     | 3.654           | 1461.740       | 23.5   |
| 10    | 3.587           | 1435.128       | 105.7  |
| 11    | 2.444           | 977.838        | 25.1   |
| 12    | 2.300           | 920.219        | 162.7  |
| 13    | 2.148           | 859.426        | 4.4    |
| 14    | 1.512           | 605.024        | 95.7   |
| 15    | 1.212           | 484.903        | 4.6    |

Table 1 #19

57047x120/nikam/h1/edcl3  
STANDARD IN OBSERVE

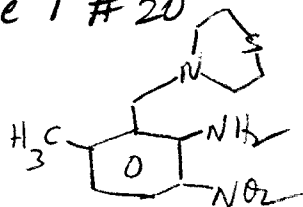
expl std1h

SAMPLE2 DMC. A VT  
date Oct 28 96 dfrq 400.062  
solvent CDCL3 dn H1  
file /home/aut- dprz 4  
e/srta\_28.10.96/01- dmf 0  
01 dn non  
ACQUISITION dm a  
dfrq 400.062 dmf 200  
tn H1 dseq undefined  
at 3.004 dres undefined  
np 48064 hsmo n  
sw 8000.0 PROCESSING  
fb 4400 lb 0.20  
hs 16 wtfile  
tpwr 60 proc ft  
pw 4.2 fn not used  
dl 1.000 math f  
tof 500.0  
nt 32 warr reant  
et 32 wexp hlp  
alock a sha  
gain not used wnt  
FLAGS  
il n  
in n  
dp y  
hs nn  
DISPLAY  
sp -400.1  
vp 6401.3  
vs 210  
sa 0  
wa 400  
hsmm 16.00  
ls 3128.00  
rfl 3878.3  
rtp 2896.6  
th 3  
lms 1.000  
si eds ph

POOR QUALITY ORIGINAL

POOR QUALITY ORIGINAL

Table 1 # 20



NAME: /ad013  
 NAME: 2KXVZ  
 NAME: stdih  
 NAME: 95  
 NAME: 0.003  
 NAME: 0.004  
 NAME: 0.004  
 NAME: 0.000  
 NAME: 4.2  
 NAME: 0.000  
 NAME: 32

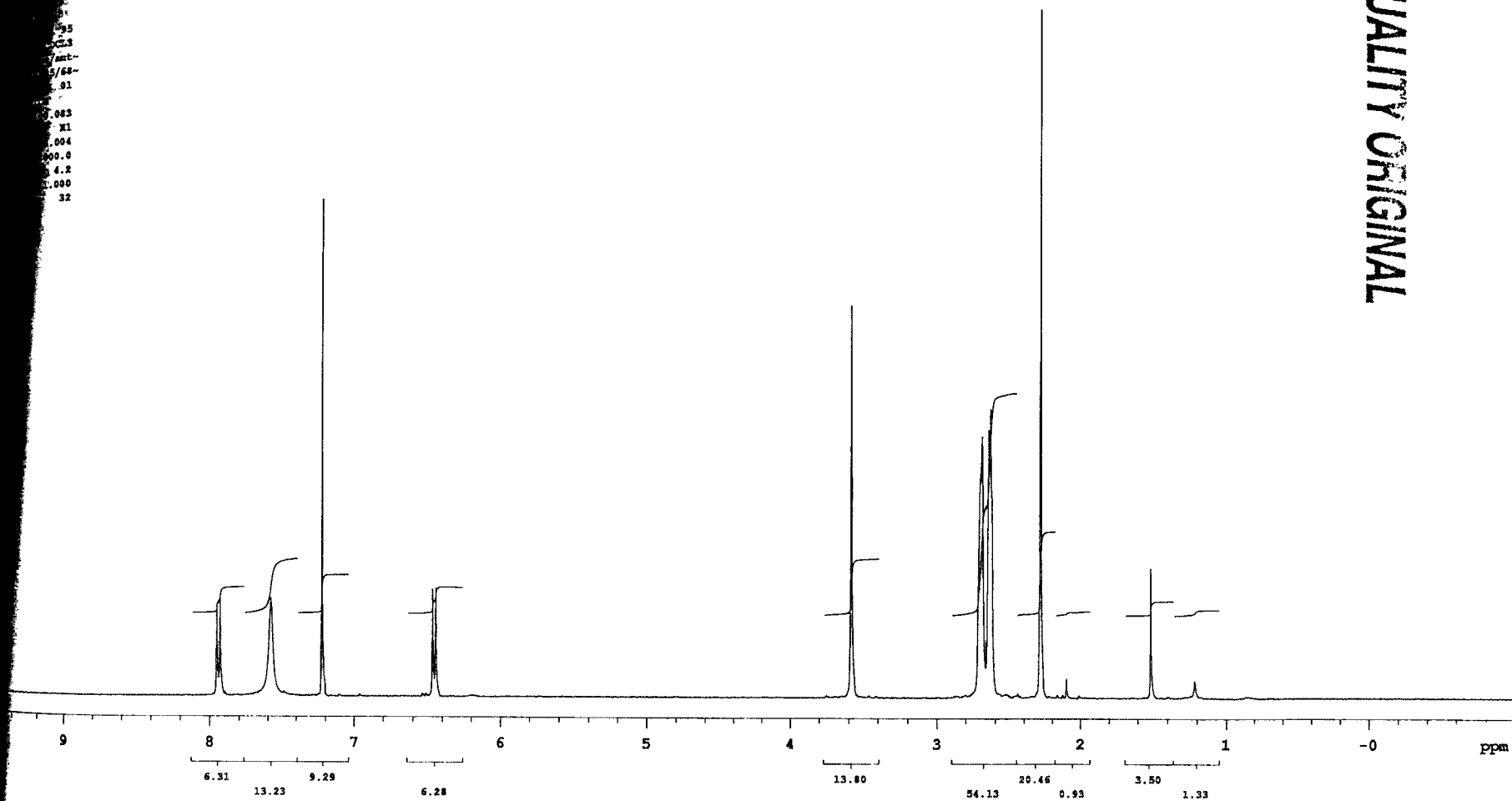


Table 1 #20

| FREQUENCY (PPM) | FREQUENCY (Hz) | HEIGHT |
|-----------------|----------------|--------|
| 7.953           | 3182.007       | 22.1   |
| 7.931           | 3173.218       | 23.7   |
| 7.583           | 3033.809       | 23.7   |
| 7.227           | 2891.227       | 120.8  |
| 7.224           | 2890.250       | 59.2   |
| 7.222           | 2889.518       | 54.2   |
| 6.467           | 2587.506       | 26.1   |
| 6.445           | 2578.473       | 26.3   |
| 3.585           | 1434.385       | 95.5   |
| 2.690           | 1076.230       | 63.6   |
| 2.649           | 1059.628       | 65.3   |
| 2.636           | 1054.501       | 70.3   |
| 2.626           | 1050.594       | 49.4   |
| 2.287           | 915.092        | 168.0  |
| 2.100           | 840.139        | 4.7    |
| 1.516           | 606.489        | 31.8   |
| 1.216           | 486.612        | 4.3    |

38332x142/nikam/odol3  
STANDARD 1H OBSERVE

exp2 pulse sequence: stdlh

| NAME/FILE           |            | DESC. & VT |           |
|---------------------|------------|------------|-----------|
| data                | Mar 1 95   | dfreq      | 400.082   |
| solvent             | CDCL3      | dn         | NI        |
| file                | /home/sut~ | dpwr       | 4         |
| o/auto_01.03.95/68- | dof        |            | 0         |
|                     | 01         | da         | nnn       |
| ACQUISITION         |            | dwn        | a         |
| sfreq               | 400.083    | daf        | 200       |
| tn                  | NI         | dseq       | undefined |
| at                  | 3.004      | dres       | undefined |
| np                  | 48064      | homo       | n         |
| sw                  | 8000.0     | PROCESSING |           |
| fb                  | 4400       | lb         | 0.20      |
| be                  | 16         | wtfile     |           |
| tpwr                | 60         | proc       | ft        |
| pw                  | 4.2        | fn         | not used  |
| dl                  | 1.000      | math       | f         |
| tof                 | 500.0      |            |           |
| nt                  | 32         | werr       | react     |
| ot                  | 32         | wexp       | hlp       |
| alook               | s          | wbs        |           |
| gain                | not used   | wnt        |           |
| FLAGS               |            |            |           |
| il                  | n          |            |           |
| in                  | n          |            |           |
| cp                  | y          |            |           |
| hs                  | nn         |            |           |
| DISPLAY             |            |            |           |
| sp                  | -400.1     |            |           |
| wp                  | 6401.3     |            |           |
| vs                  | 135        |            |           |
| sc                  | 0          |            |           |
| wc                  | 400        |            |           |
| hnmw                | 16.00      |            |           |
| is                  | 500.00     |            |           |
| zfl                 | 2970.3     |            |           |
| rtp                 | 2896.6     |            |           |
| th                  | 2          |            |           |
| ins                 | 1.000      |            |           |
| ai                  | odc        | ph         |           |

POOR QUALITY ORIGINAL



POOR QUALITY ORIGINAL

Table 2 #21

3468727/hutchings/hl/dmso  
STANDARD IN OBSERVE

exp2 pulse sequence: stdih

NAME  
date Jan 9 95  
solvent dmso  
file /home/mt-  
o/auto\_09.01.95/03-  
01

ACQUISITION  
freq 400.024  
nucl H1  
ac 3.004  
sc 8000.0  
pw 4.2  
d1 1.000  
nt 32

