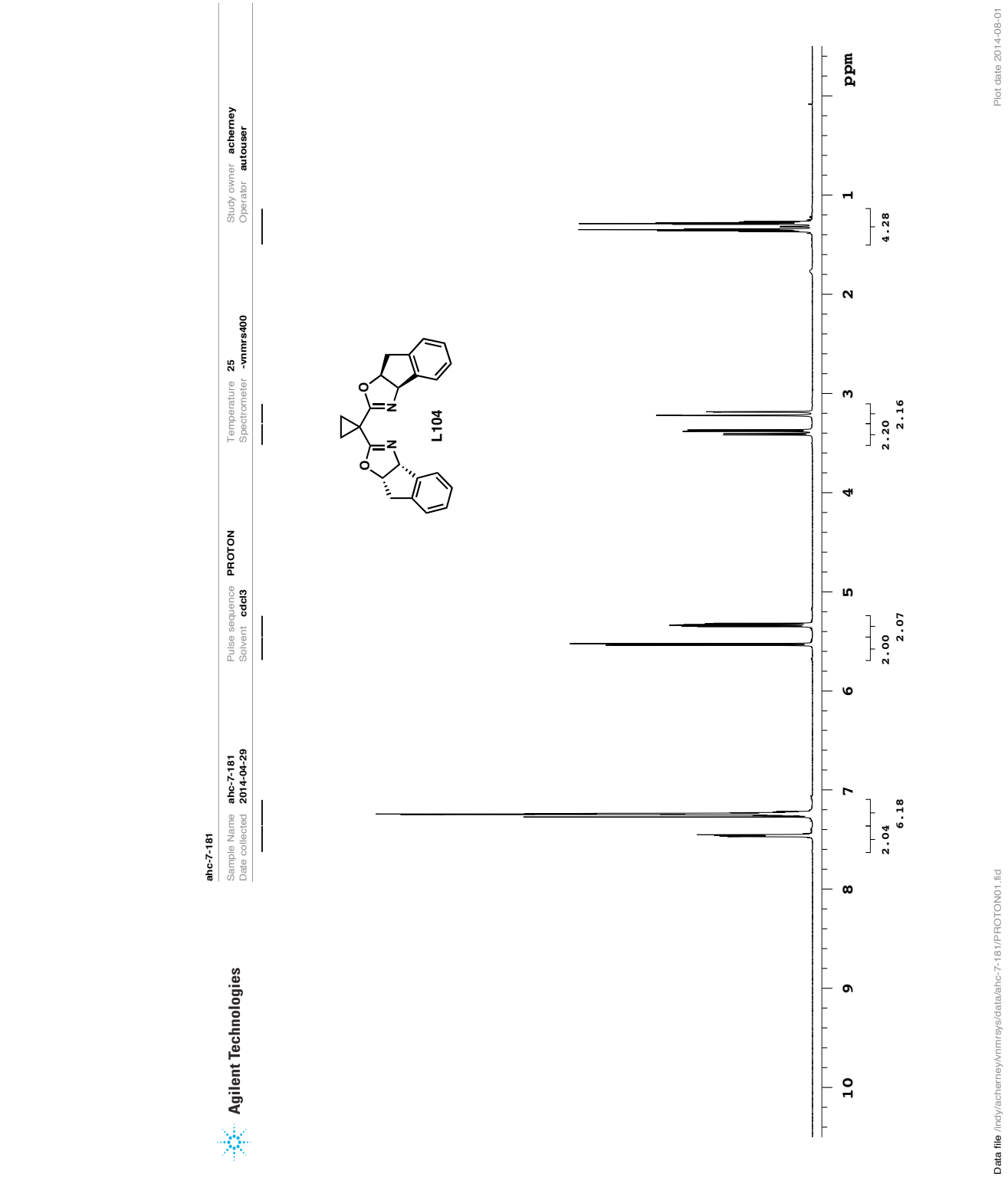
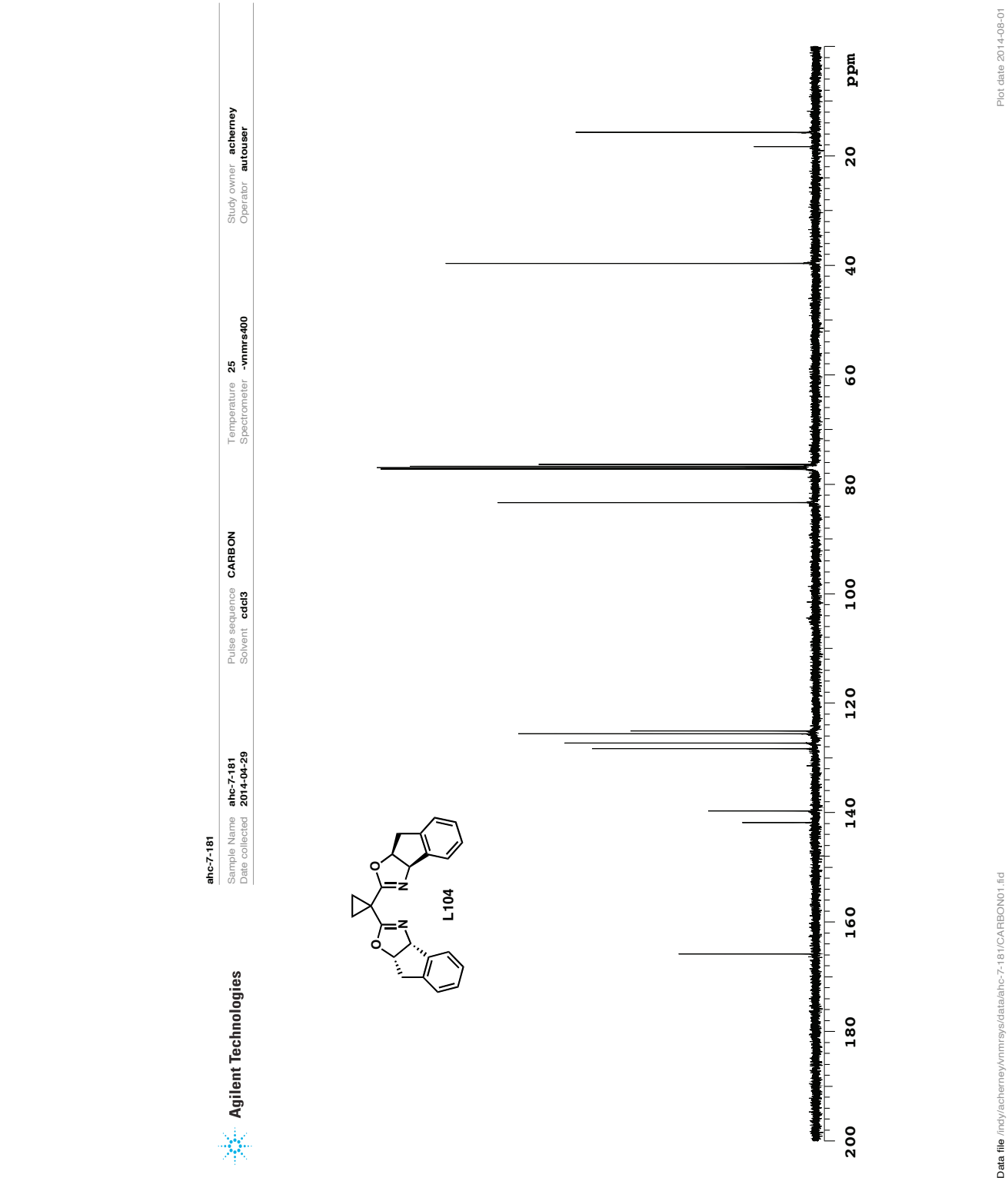
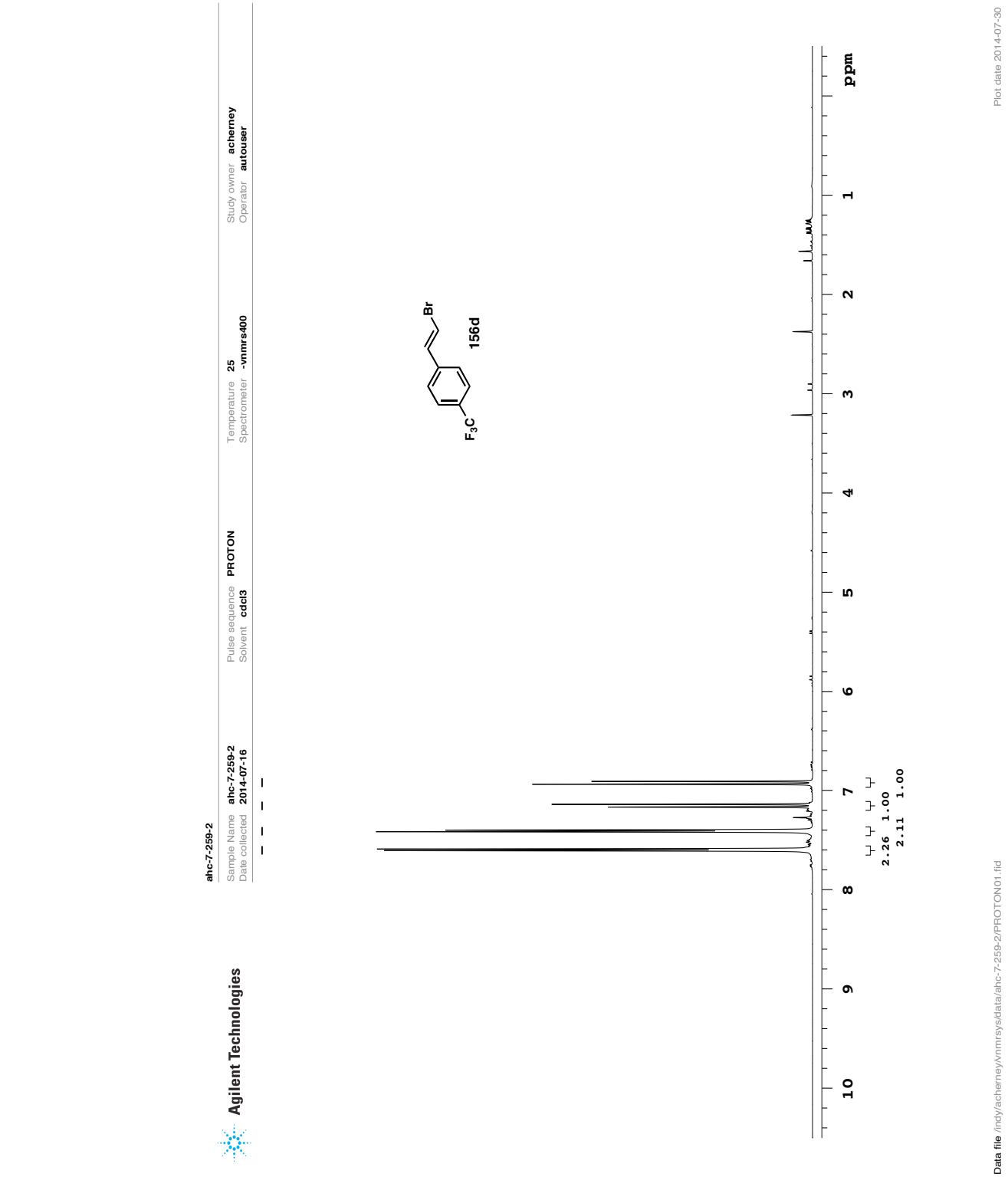
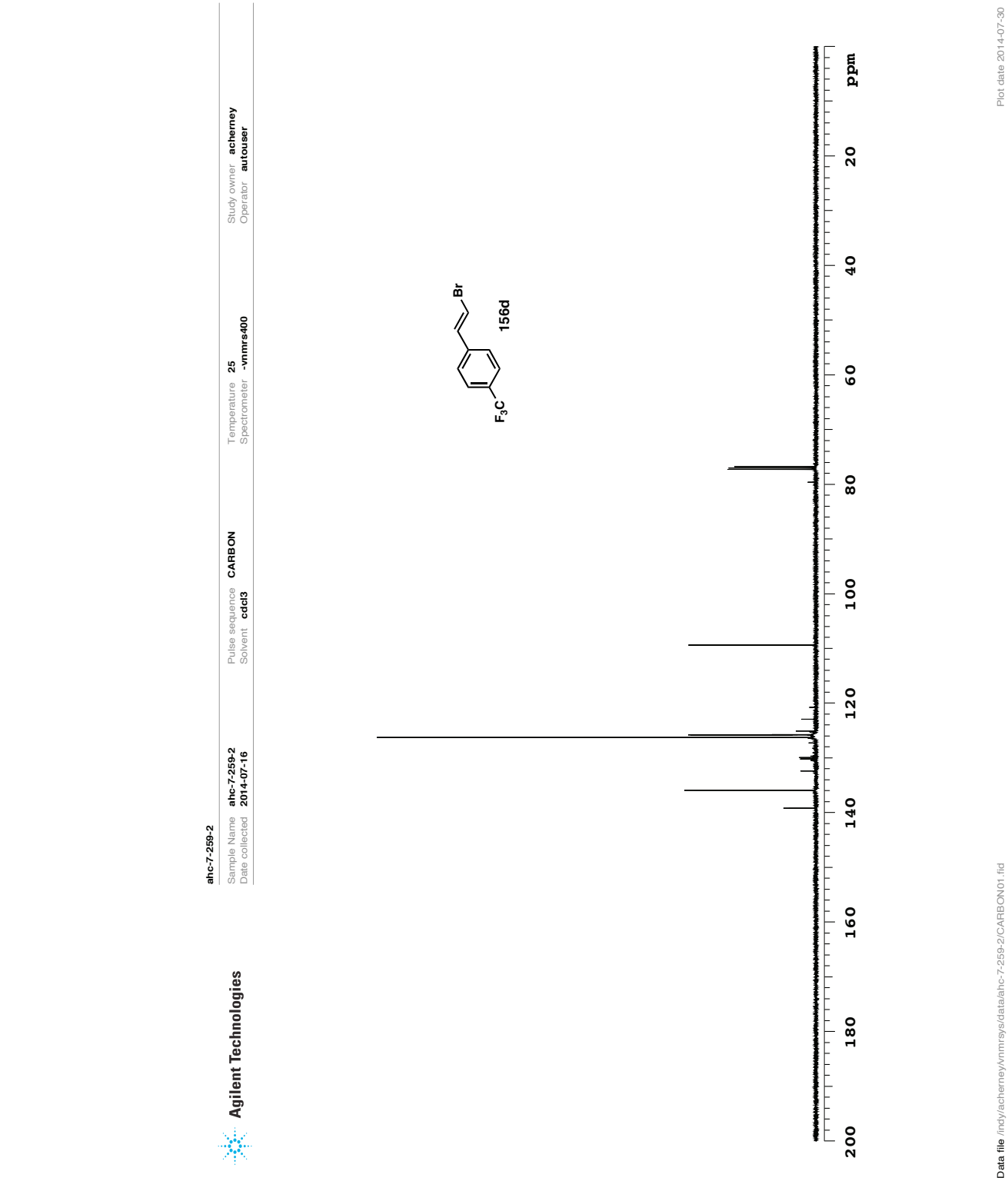
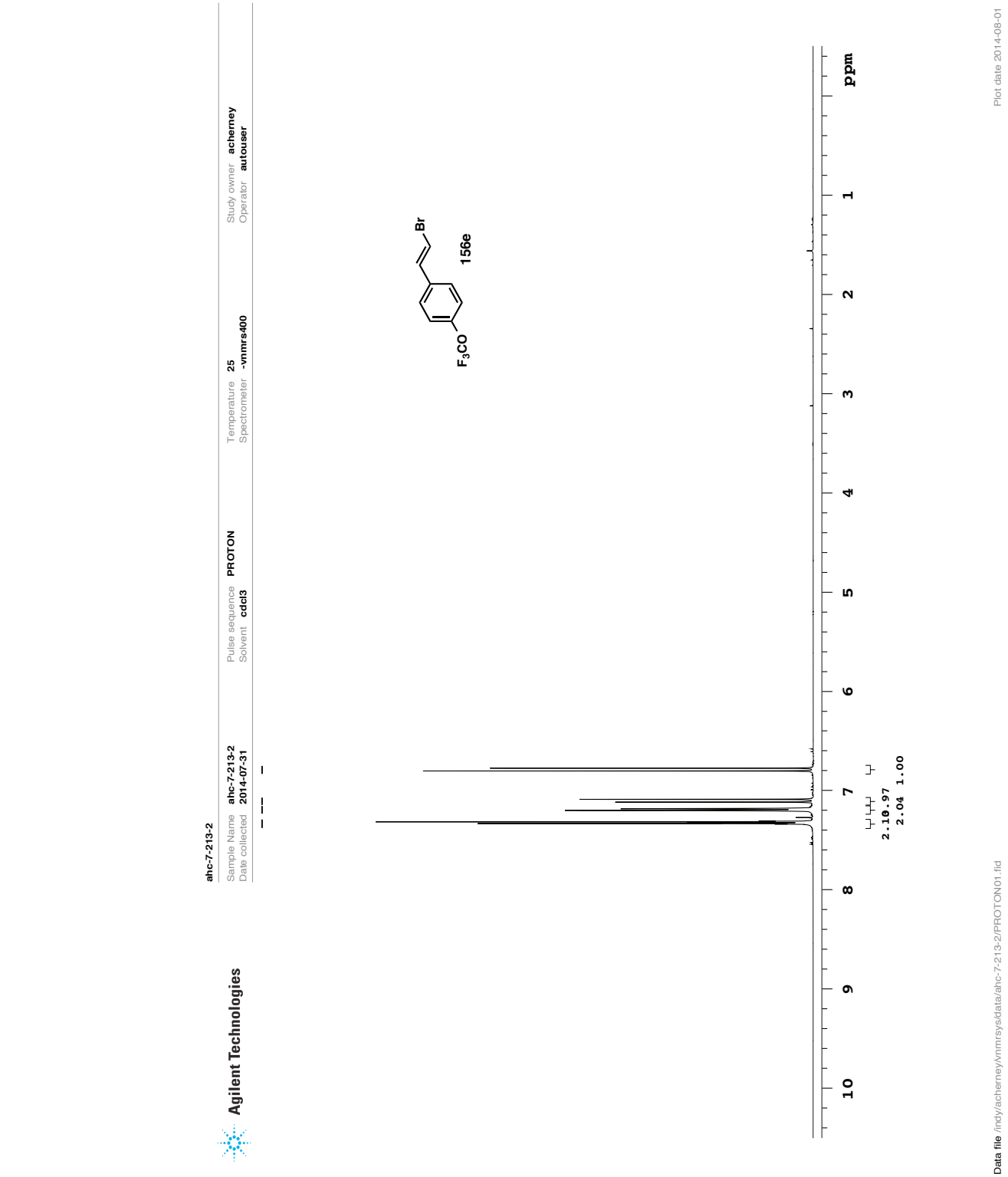
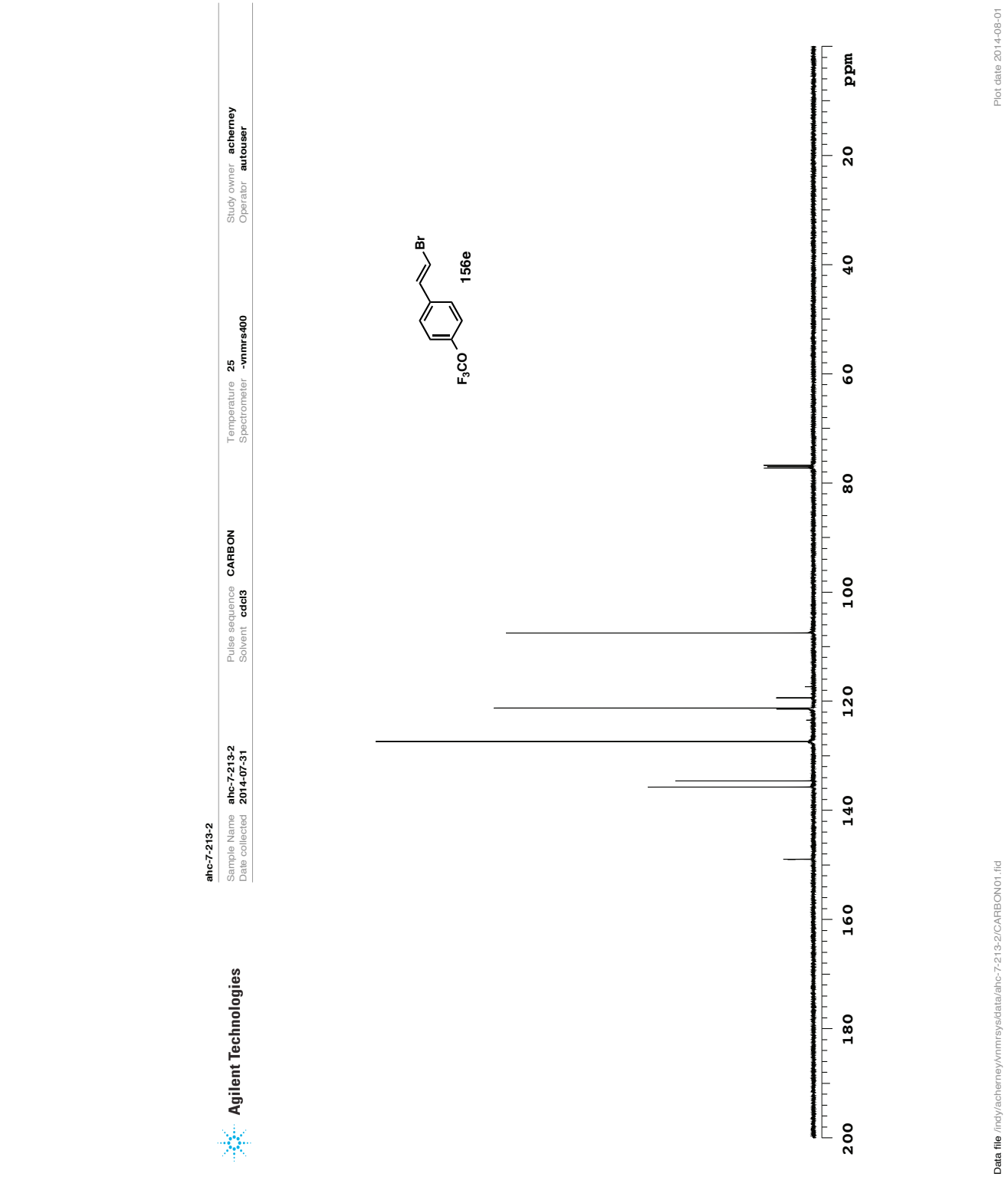

ahc-7-181
Sample Name ahc-7-181
Date collected 2014-04-29
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
L104
ppm
10
9
8
7
6
5
4
3
2
1
2.04
6.18
2.00
2.07
2.20
2.16
4.28
Agilent Technologies
Data file /indy/achenney/vnmrsys/data/ahc-7-181/PROTON01.fid
Plot date 2014-08-01

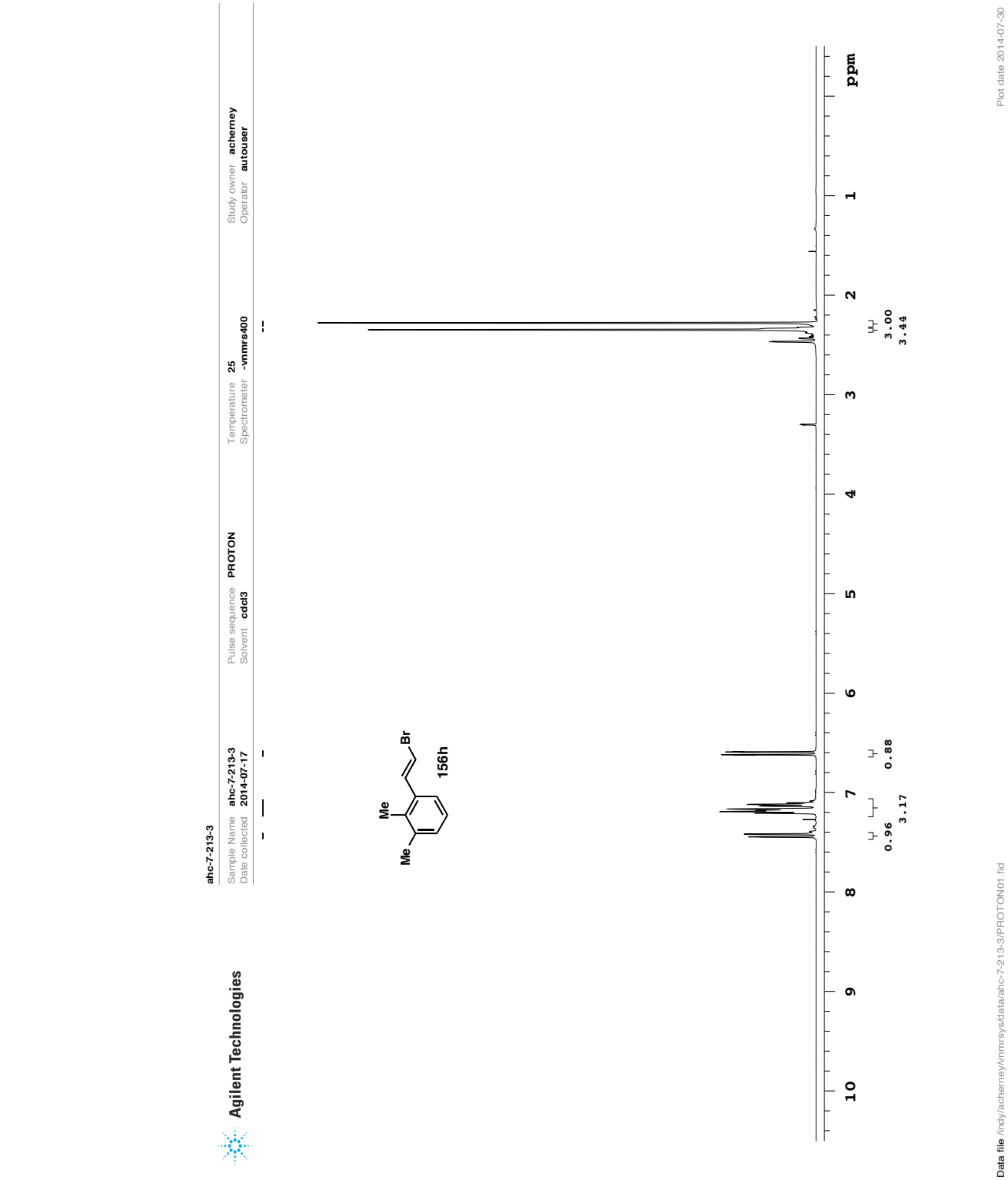

ahc-7-181
Sample Name ahc-7-181
Date collected 2014-04-29
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
L104
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-181/CARBON01.fid
Plot date 2014-08-01

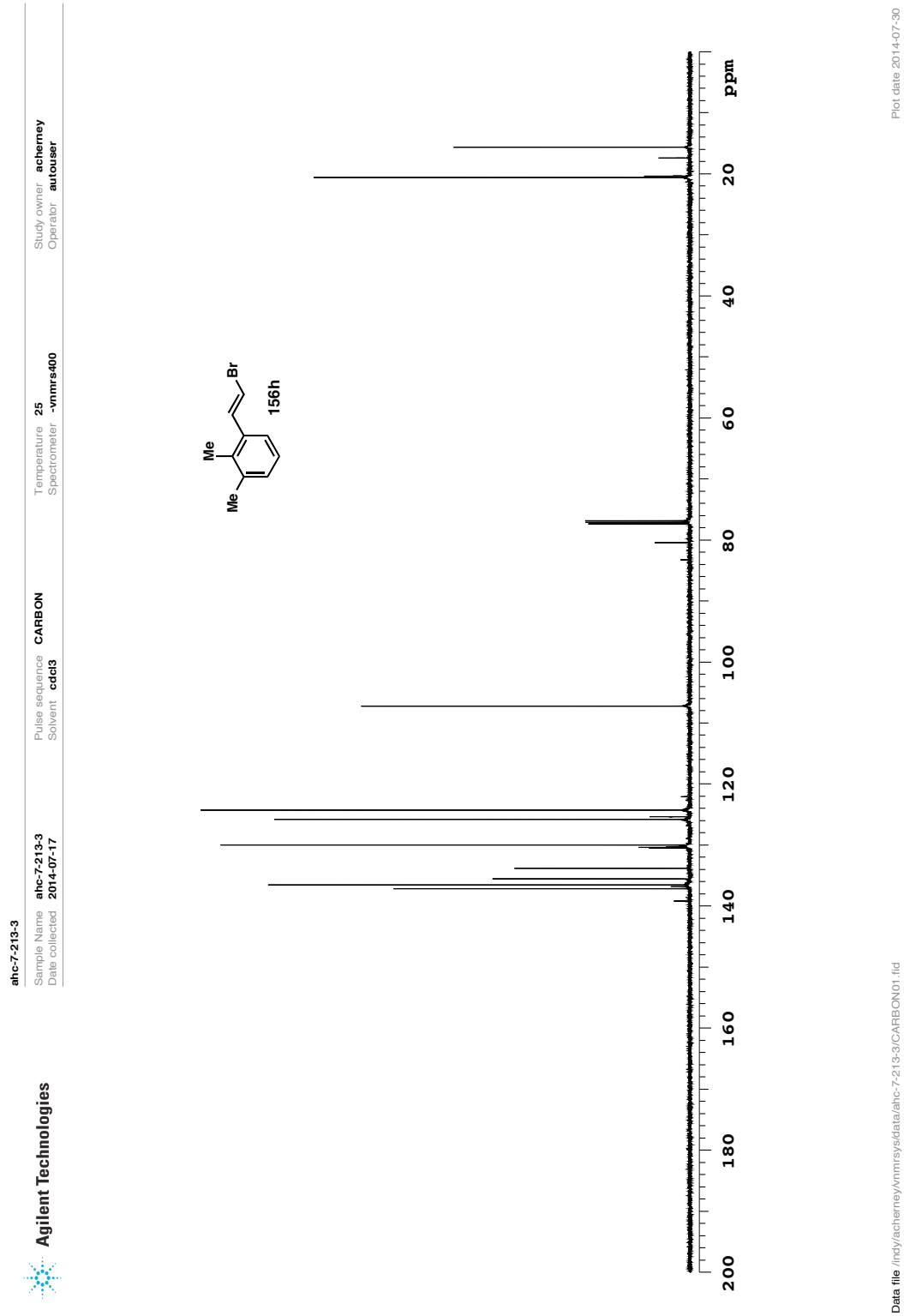

ahc-7-259-2
Sample Name ahc-7-259-2
Date collected 2014-07-16
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Br
F3C
156d
10
9
8
7
6
5
4
3
2
1
ppm
2.26 1.00
2.11 1.00
Data file /indy/achenney/vnmrsys/data/ahc-7-259-2/PROTON01.fid
Plot date 2014-07-30

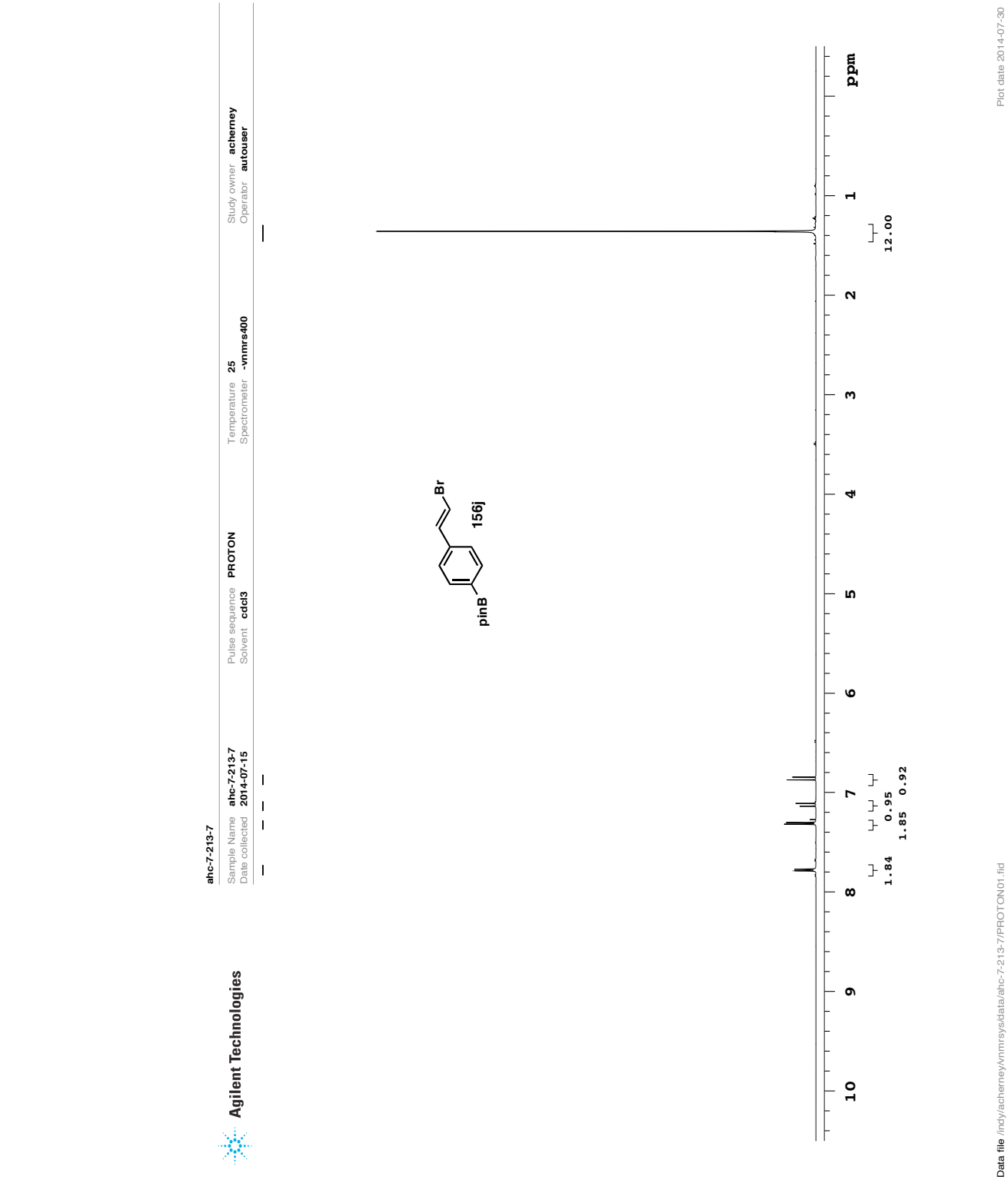

Agilent Technologies
ahc-7-259-2
Sample Name ahc-7-259-2
Date collected 2014-07-16
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Br
F3C
156d
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-259-2/CARBON01.fid

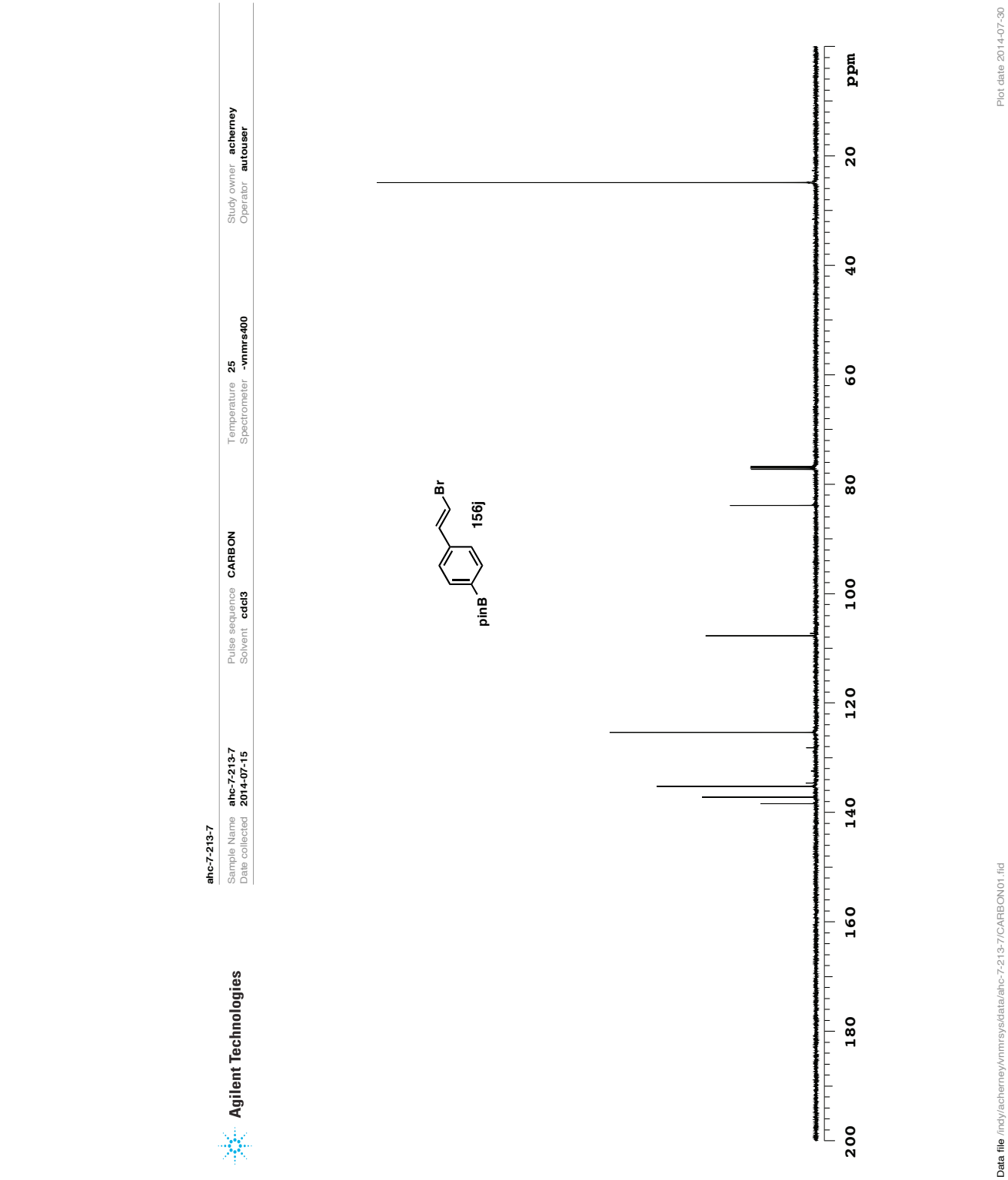

Agilent Technologies
ahc-7-213-2
Sample Name ahc-7-213-2
Date collected 2014-07-31
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Br
F3CO
156e
10 9 8 7 6 5 4 3 2 1 ppm
2.10.97
2.04 1.00
Data file /indy/achenney/vnmrsys/data/ahc-7-213-2/PROTON01.fid
Plot date 2014-08-01

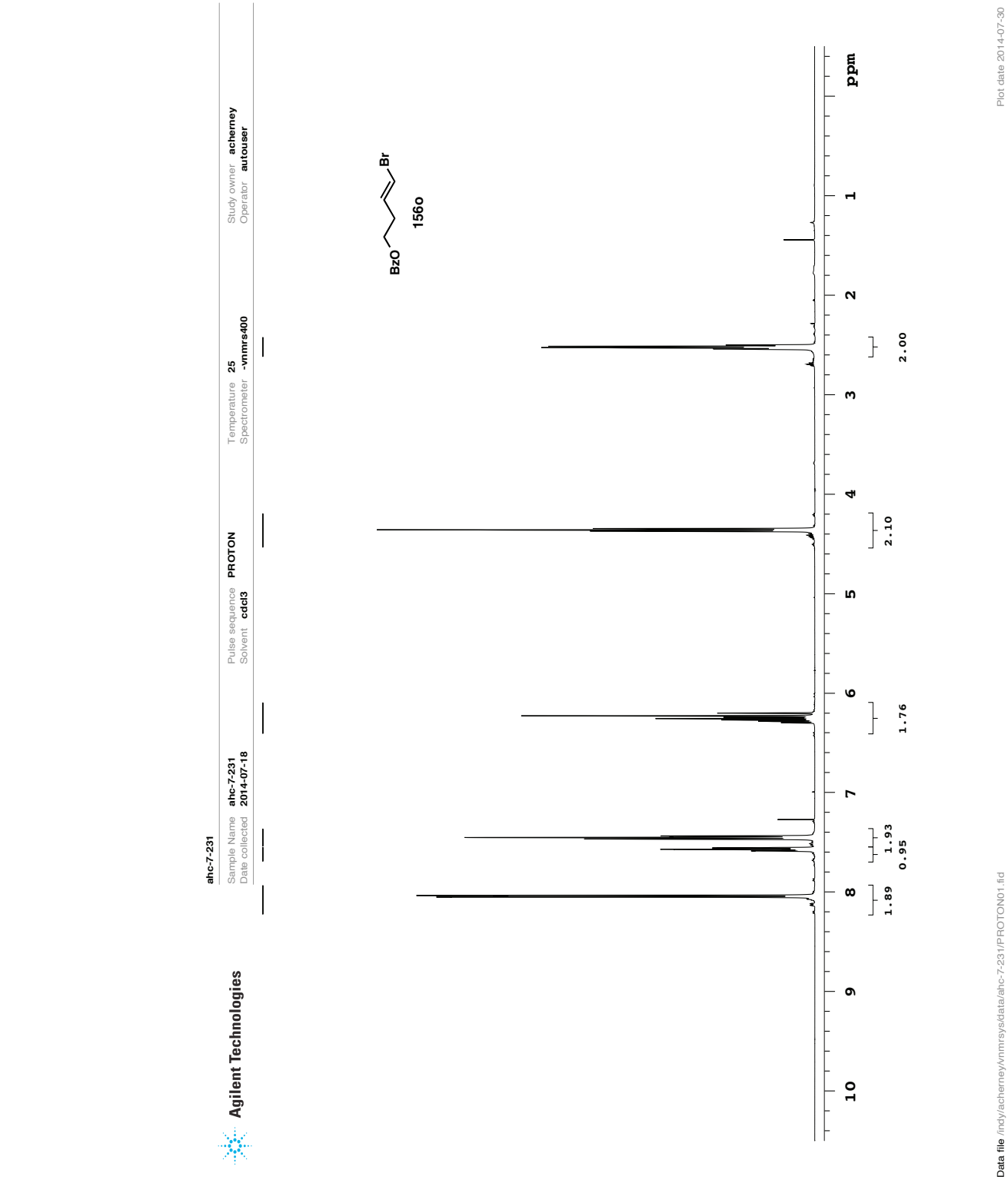

Agilent Technologies
ahc-7-213-2
Sample Name ahc-7-213-2
Date collected 2014-07-31
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Br
F3CO
156e
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-08-01
Data file /indy/achenney/vnmrsys/data/ahc-7-213-2/CARBON01.fid

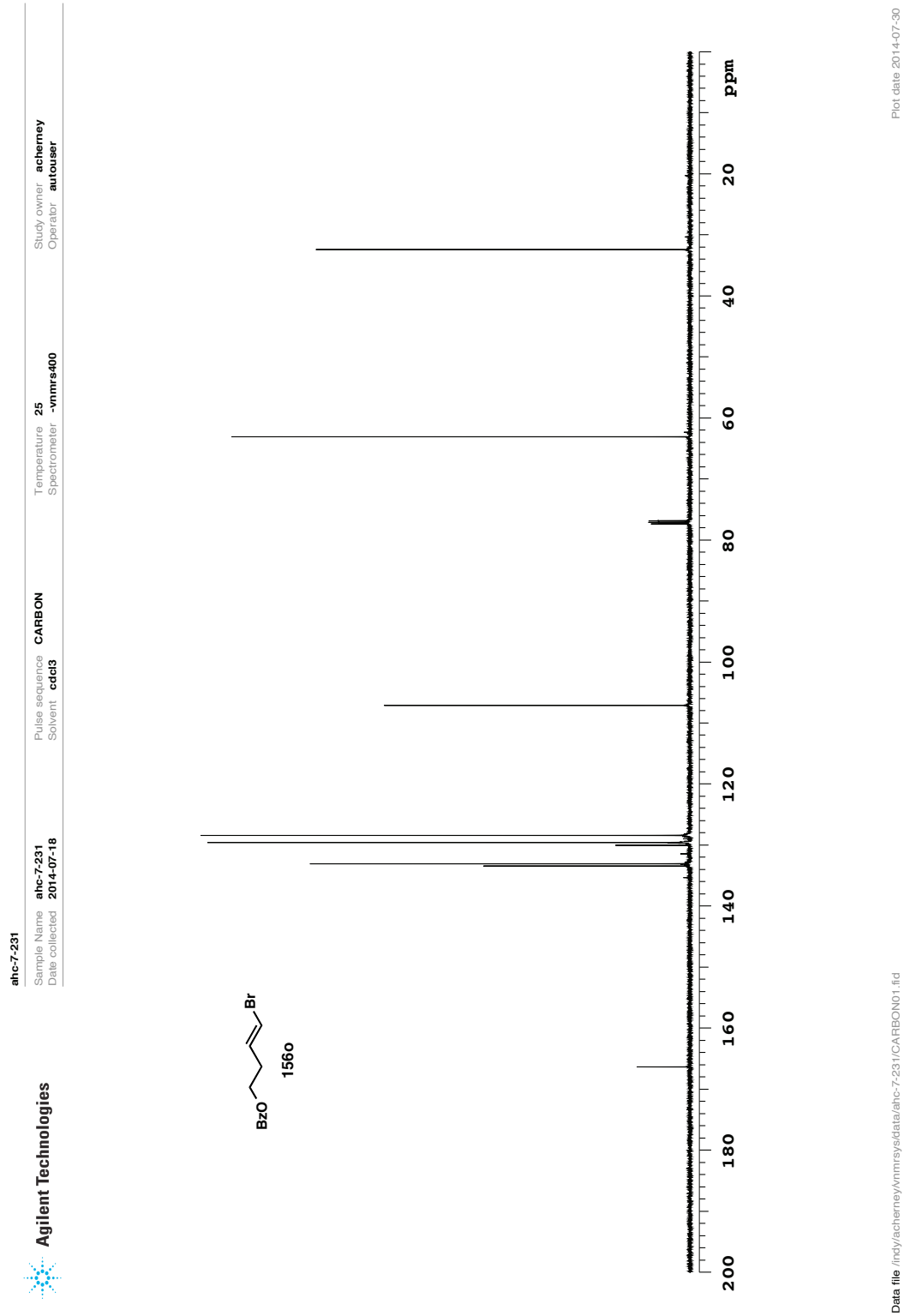

Agilent Technologies
ahc-7-213-3
Sample Name ahc-7-213-3
Date collected 2014-07-17
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
Br
156h
ppm
0.96
3.17
0.88
3.00
3.44
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-213-3/PROTON01.fid

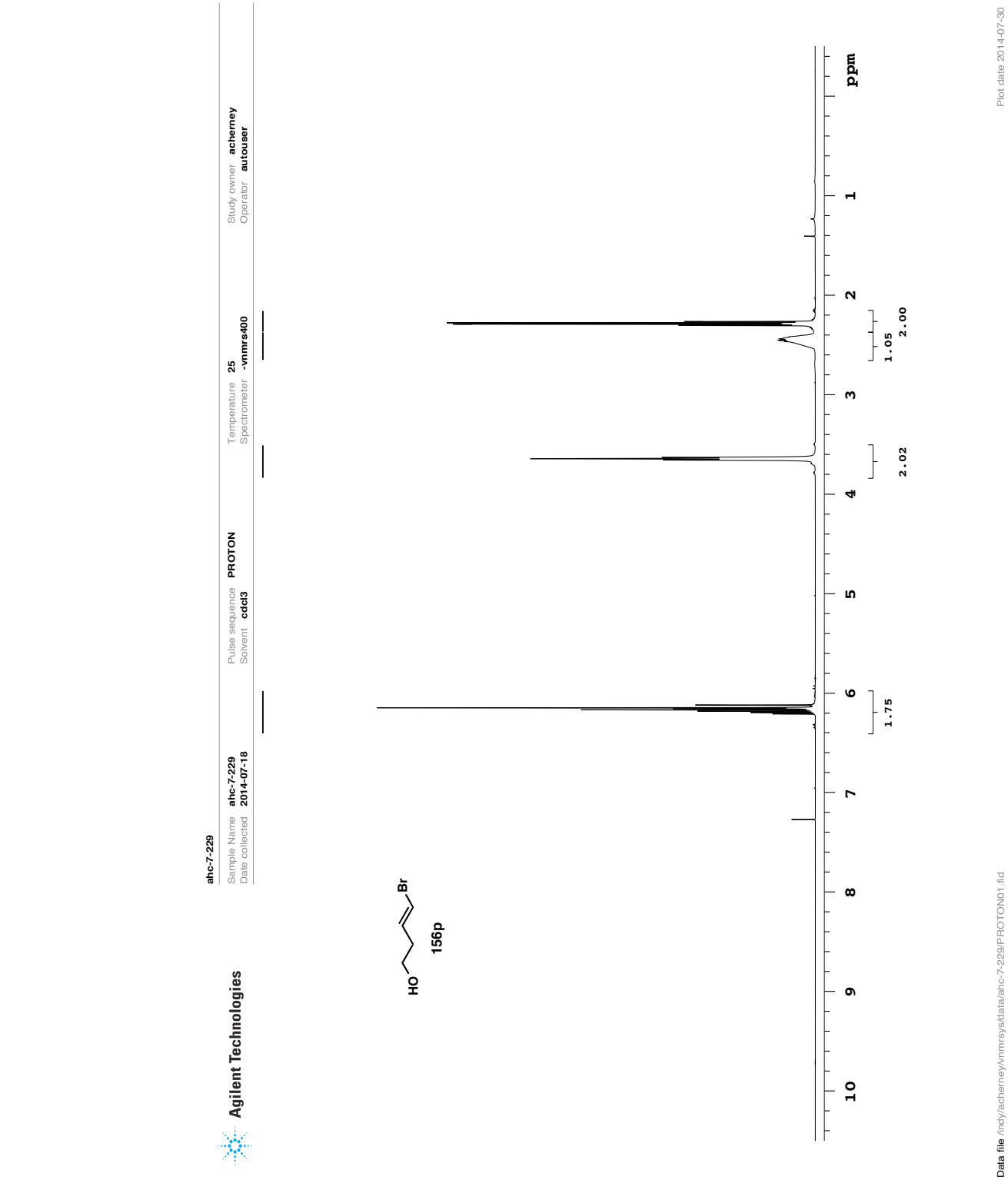

Agilent Technologies
ahc-7-213-3
Sample Name ahc-7-213-3
Date collected 2014-07-17
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
Br
156h
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-213-3/CARBON01.fid

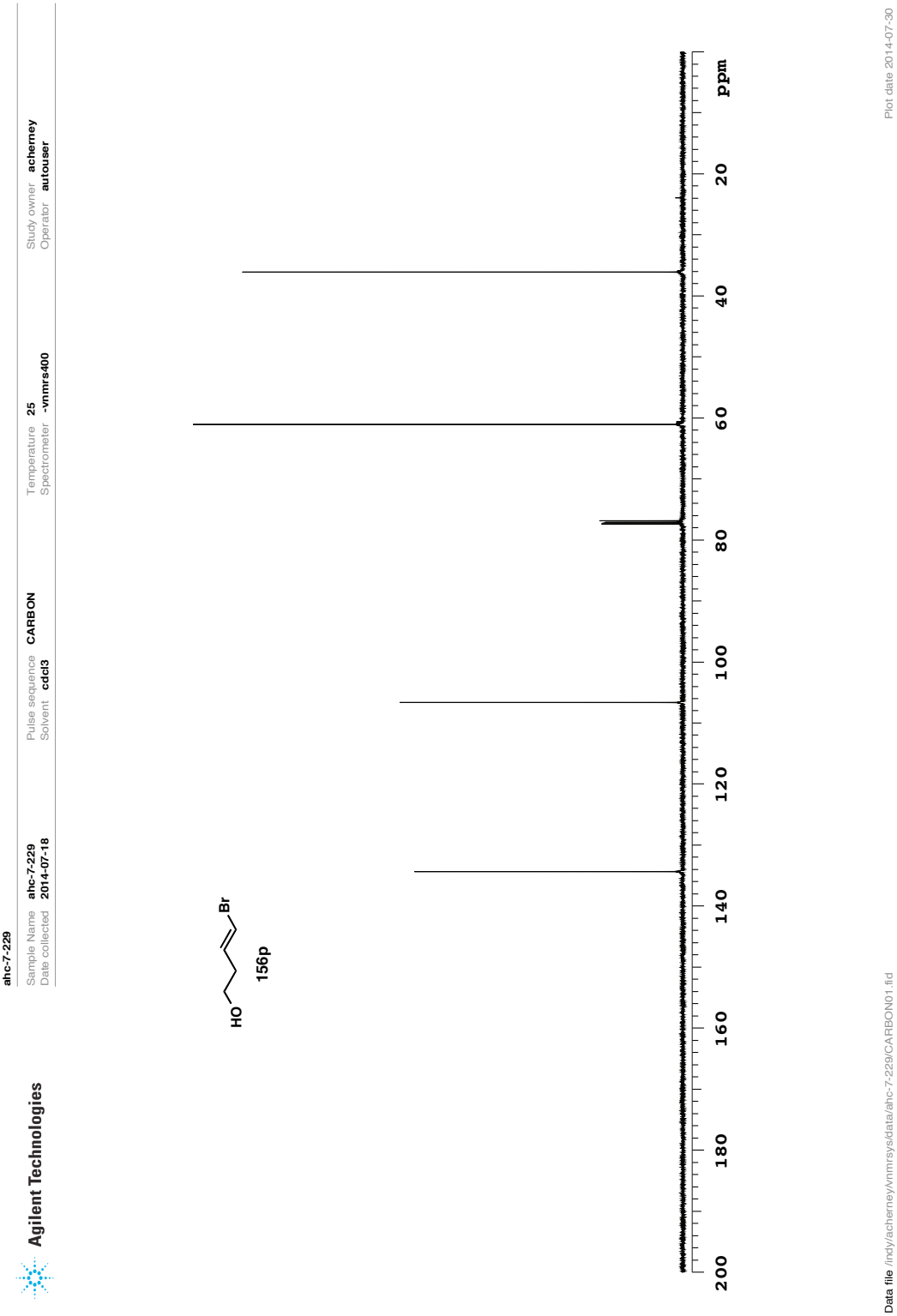

ahc-7-213-7
Sample Name ahc-7-213-7
Date collected 2014-07-15
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Br
pinB
156j
ppm
1.84
0.95
1.85
0.92
12.00
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-213-7/PROTON01.fid

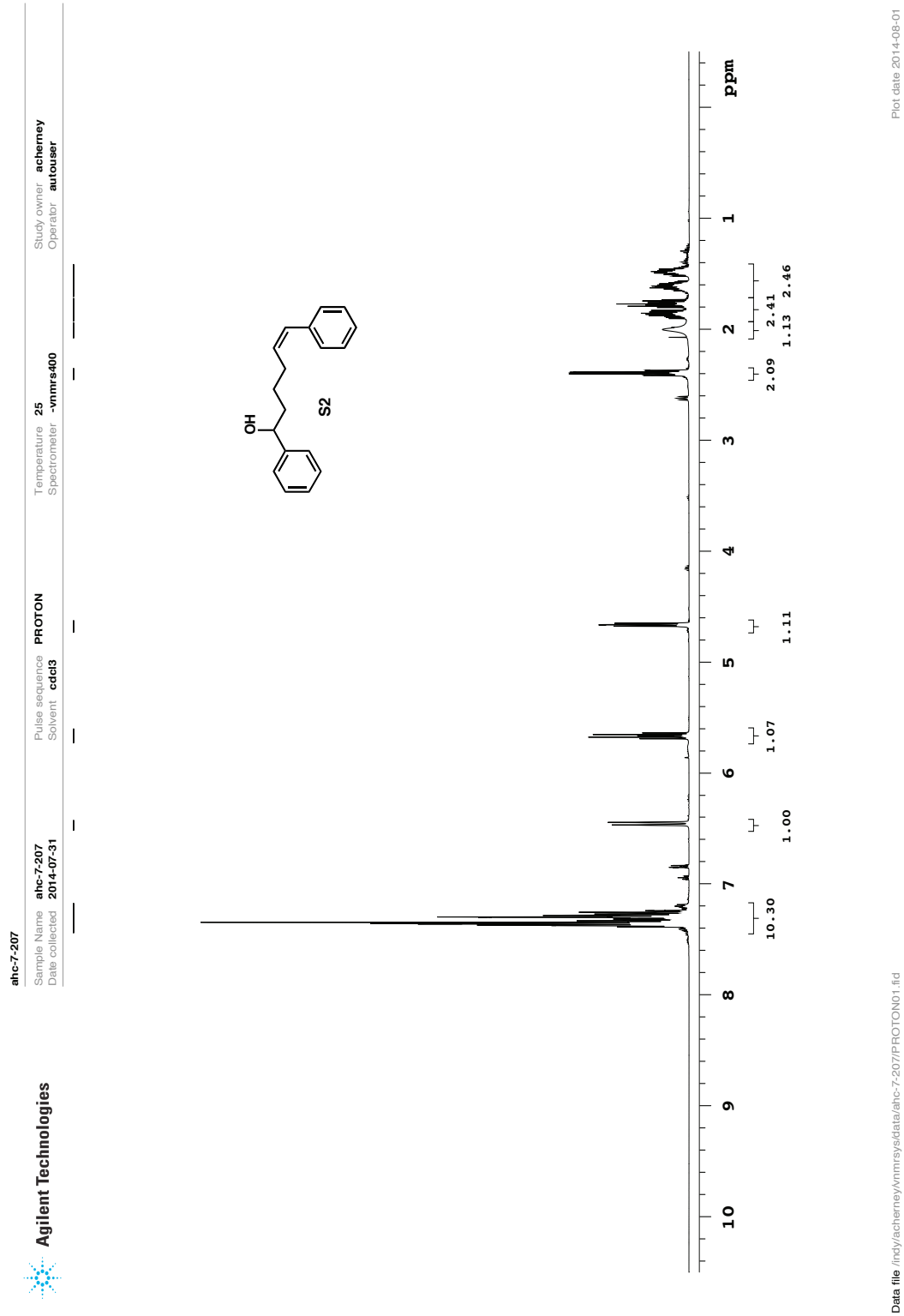

ahc-7-213-7
Sample Name ahc-7-213-7
Date collected 2014-07-15
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Br
156j
pinB
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-213-7/CARBON01.fid

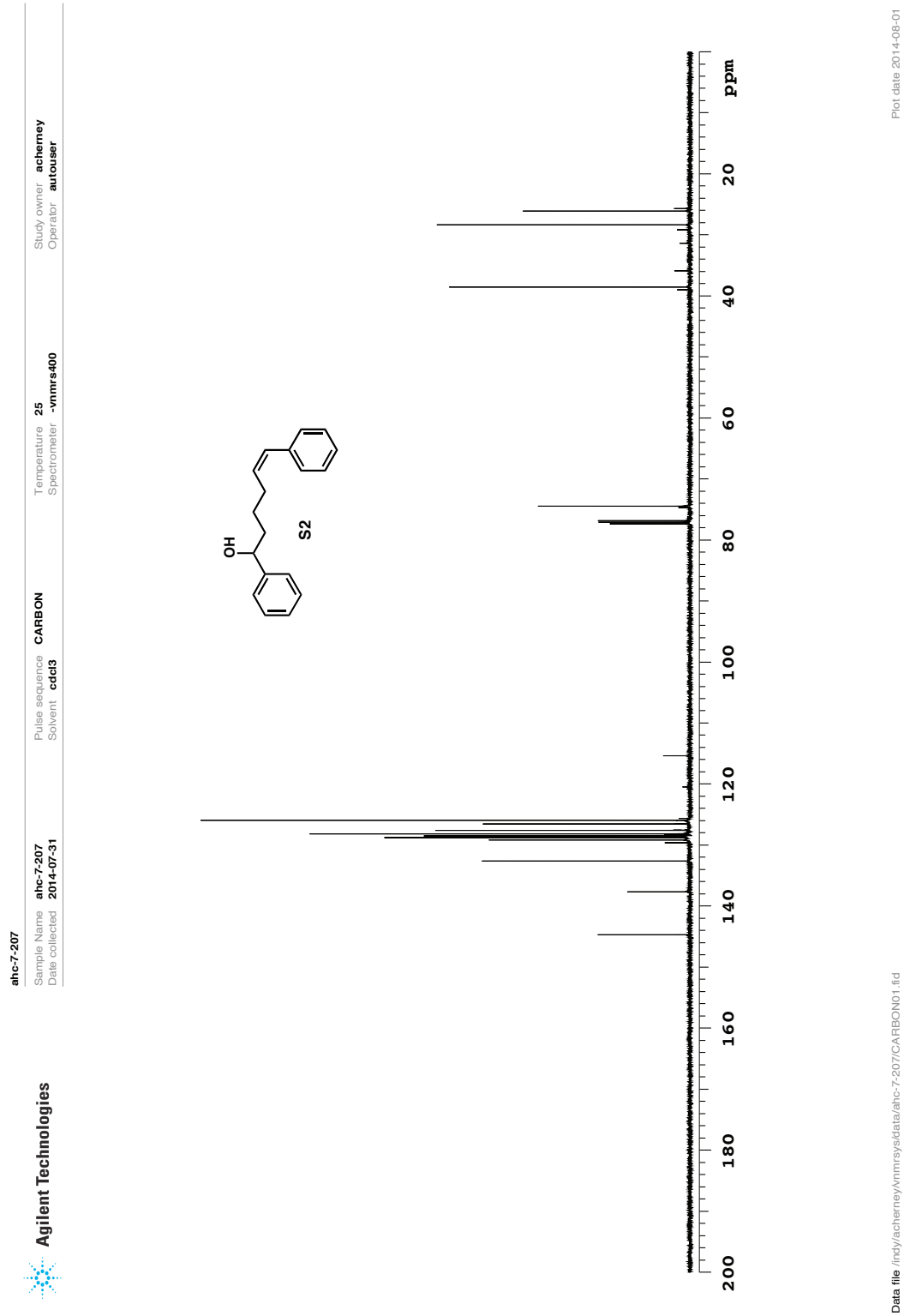

ahc-7-231
Sample Name ahc-7-231
Date collected 2014-07-18
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
BzO
Br
156o
ppm
1.89
1.93
0.95
1.76
2.10
2.00
Data file /indy/achenney/vnmrsys/data/ahc-7-231/PROTON01.fid
Plot date 2014-07-30

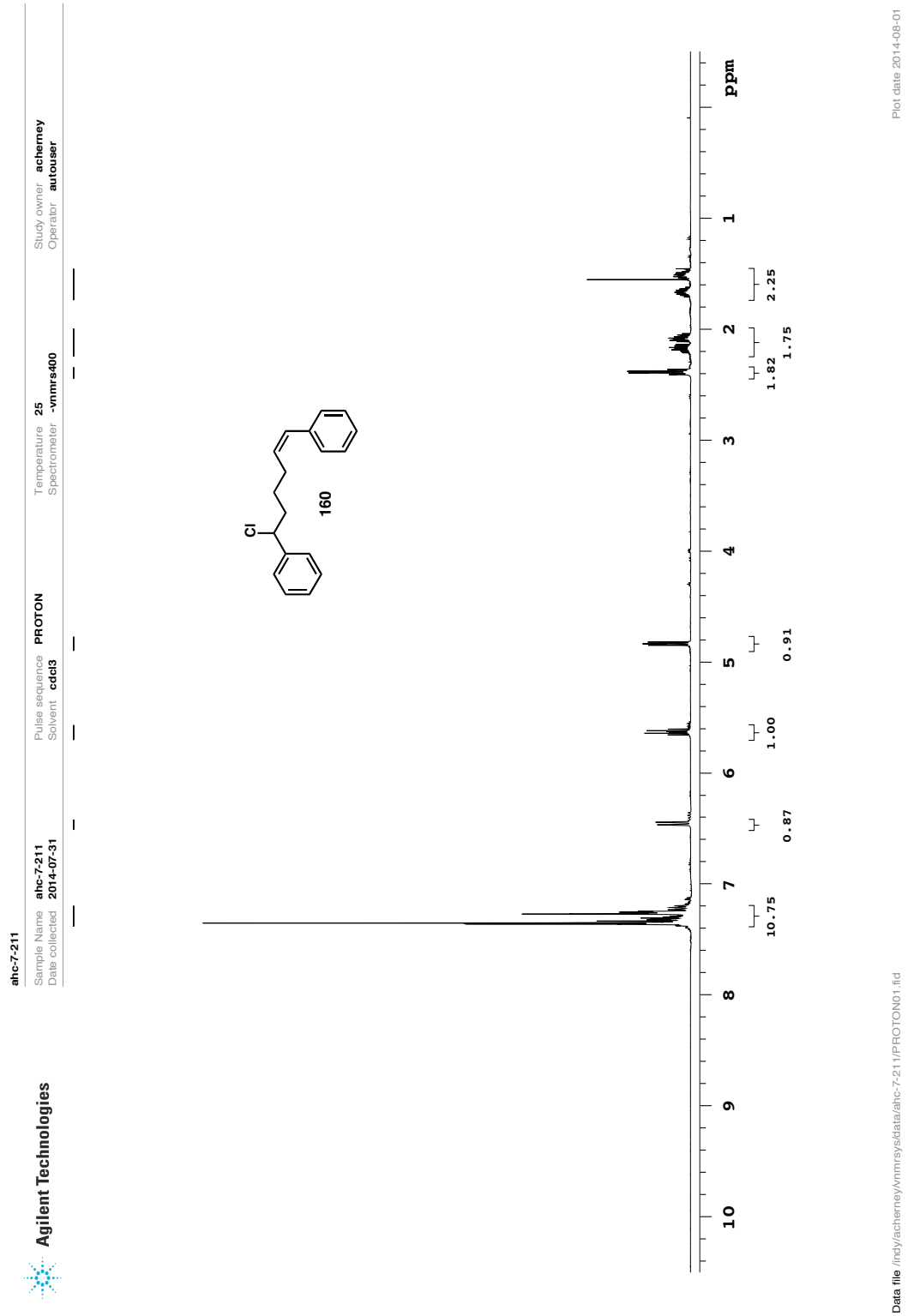

ahc-7-231
Sample Name ahc-7-231
Date collected 2014-07-18
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Br
BzO
156o
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-231/CARBON01.fid

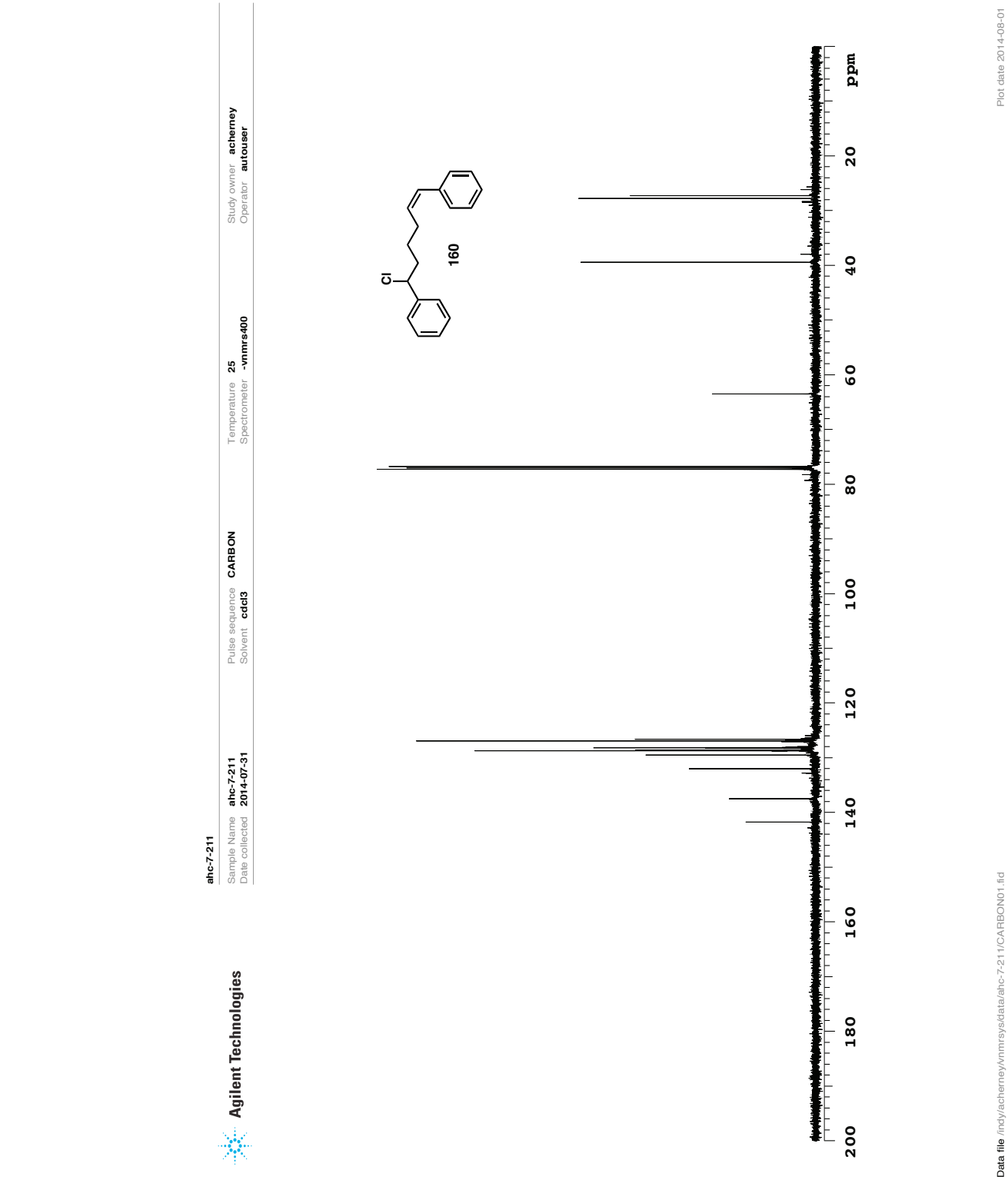

ahc-7-229
Agilent Technologies
Sample Name ahc-7-229
Date collected 2014-07-18
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
HO
Br
156p
ppm
1.75
2.02
1.05
2.00
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-229/PROTON01.fid

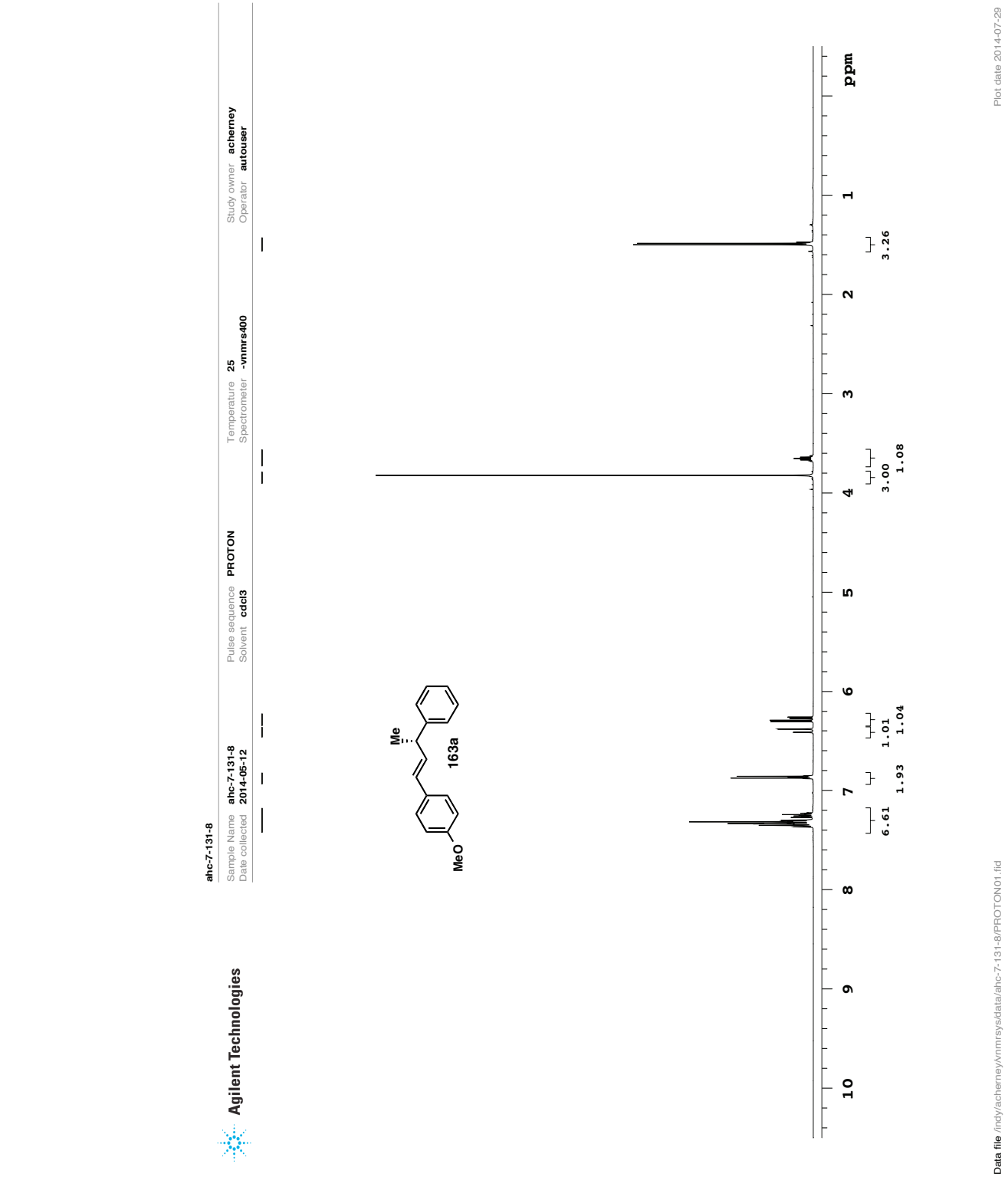

Agilent Technologies
ahc-7-229
Sample Name ahc-7-229
Date collected 2014-07-18
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Br
HO
156p
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-229/CARBON01.fid

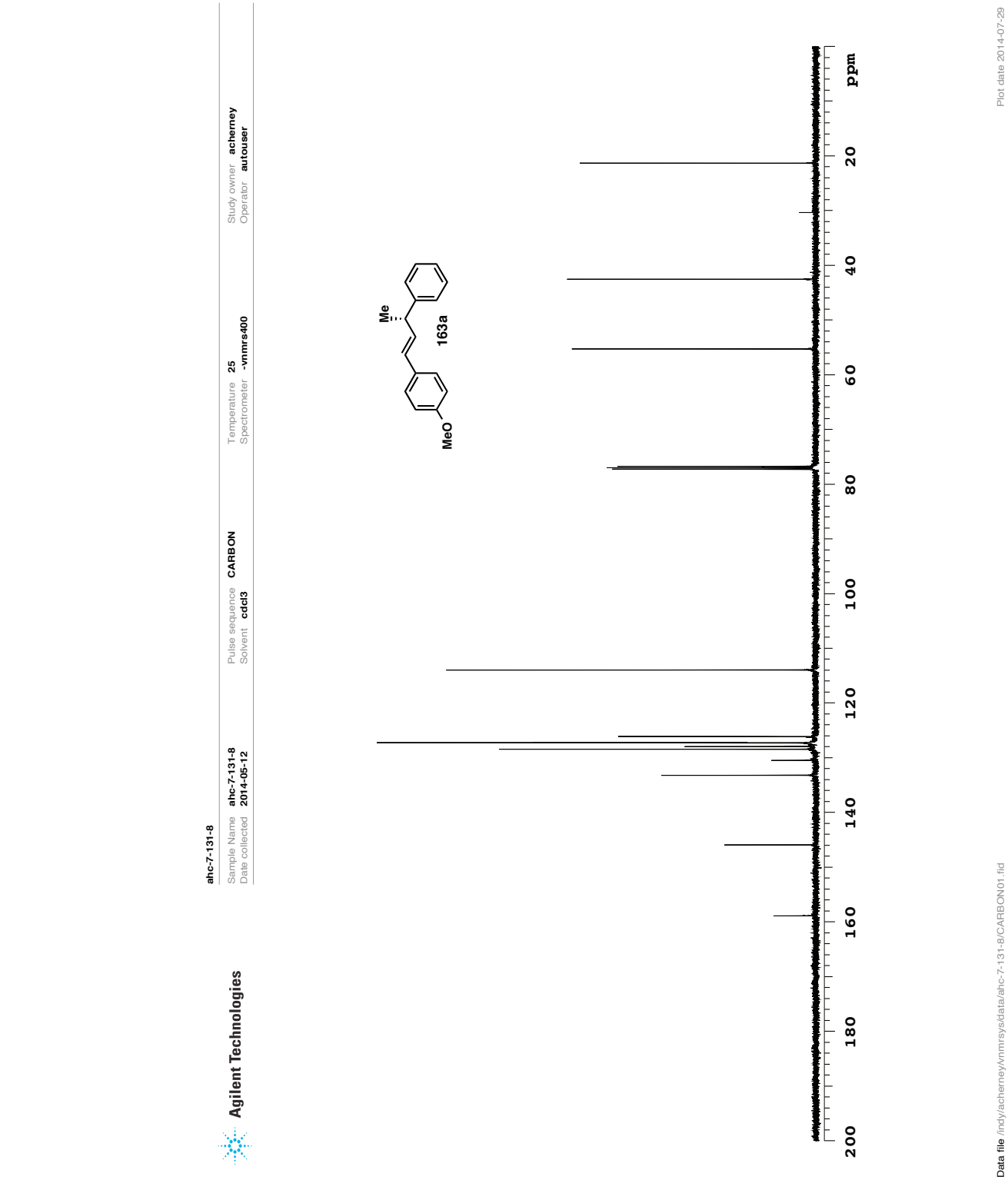

ahc-7-207
Sample Name ahc-7-207
Date collected 2014-07-31
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
OH
S2
10.30
1.00
1.07
1.11
2.09
2.41
1.13
2.46
ppm
Agilent Technologies
Data file /indy/achenney/vnmrsys/data/ahc-7-207/PROTON01.fid
Plot date 2014-08-01

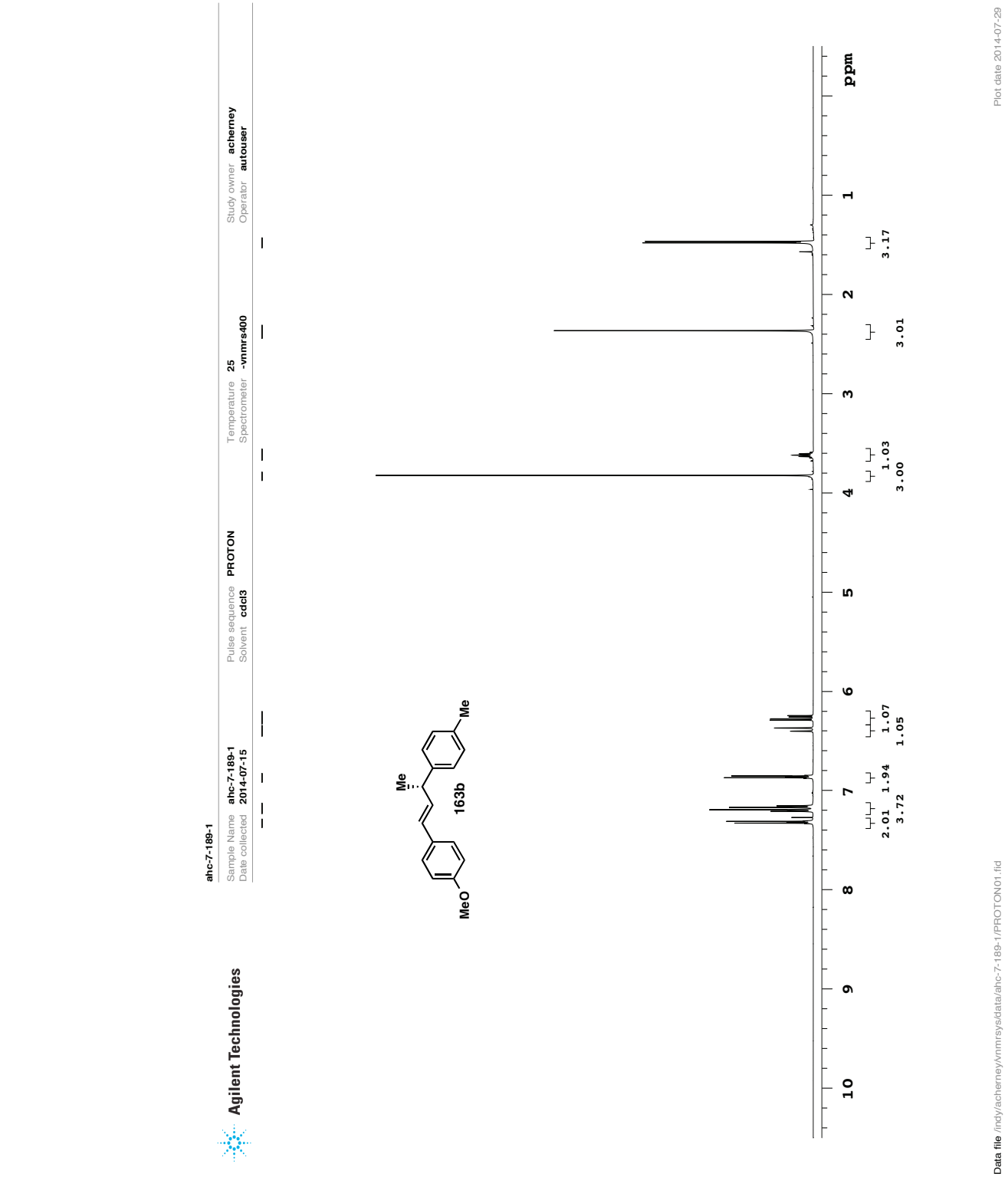

ahc-7-207
Agilent Technologies
Sample Name ahc-7-207
Date collected 2014-07-31
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
OH
S2
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-08-01
Data file /indy/achenney/vnmrsys/data/ahc-7-207/CARBON01.fid

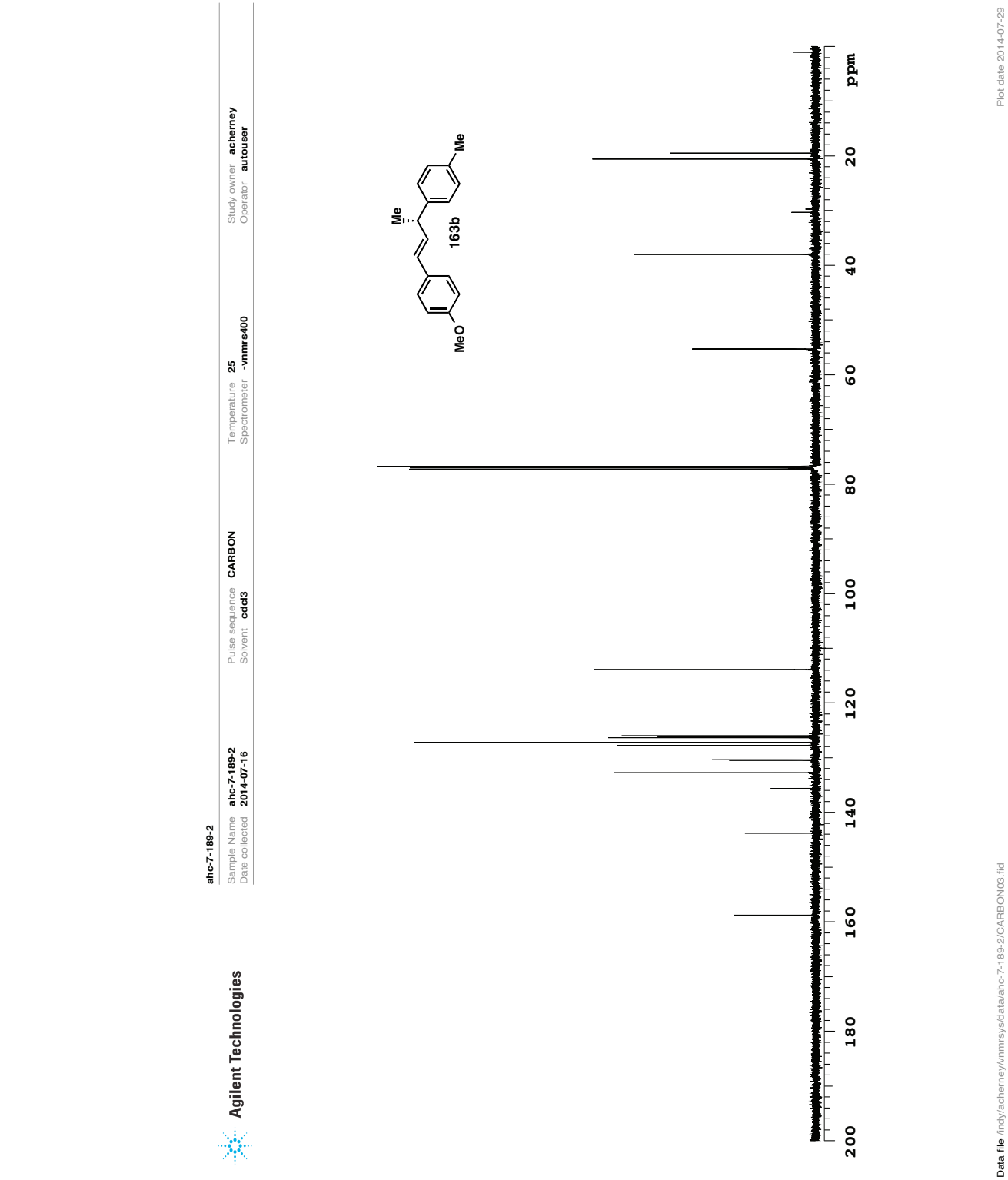

ahc-7-211
Sample Name ahc-7-211
Date collected 2014-07-31
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Cl
160
10.75
0.87
1.00
0.91
1.82
1.75
2.25
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-211/PROTON01.fid
Plot date 2014-08-01

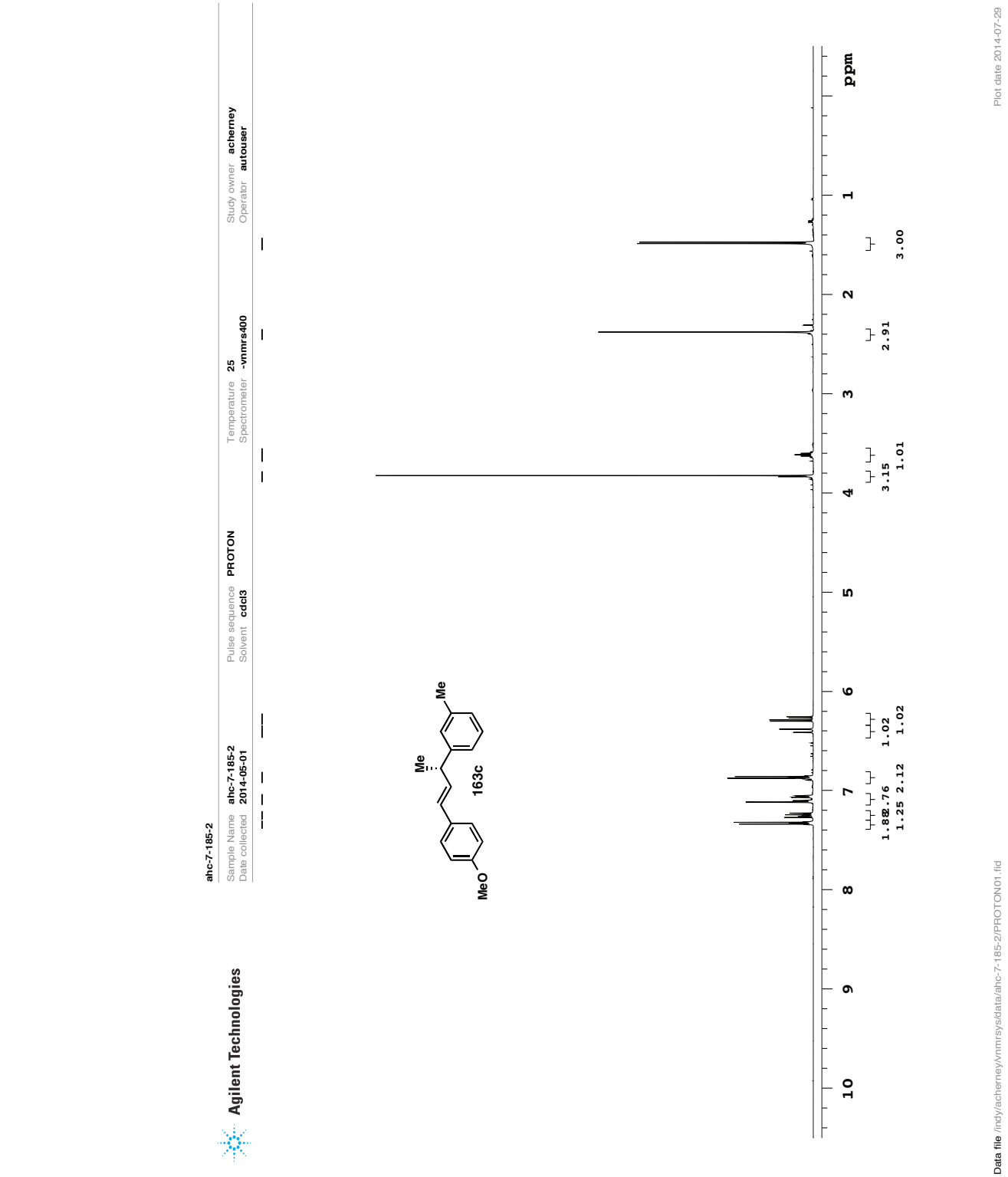

ahc-7-211
Sample Name ahc-7-211
Date collected 2014-07-31
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Cl
160
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-08-01
Data file /indy/achenney/vnmrsys/data/ahc-7-211/CARBON01.fid

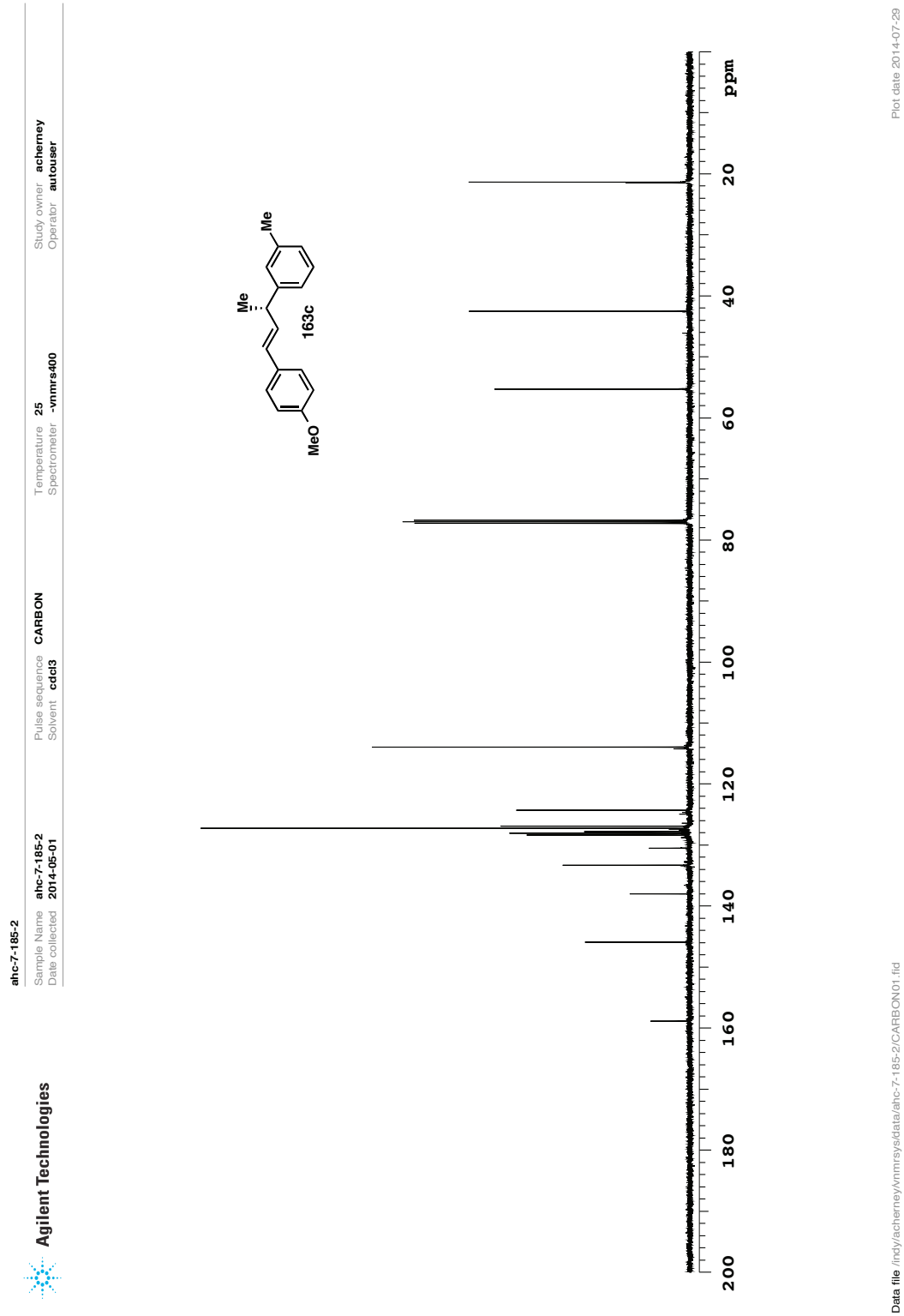

Agilent Technologies
ahc-7-131-8
Sample Name ahc-7-131-8
Date collected 2014-05-12
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
MeO
163a
6.61
1.93
1.01
1.04
3.00
1.08
3.26
10
9
8
7
6
5
4
3
2
1
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-131-8/PROTON01.fid

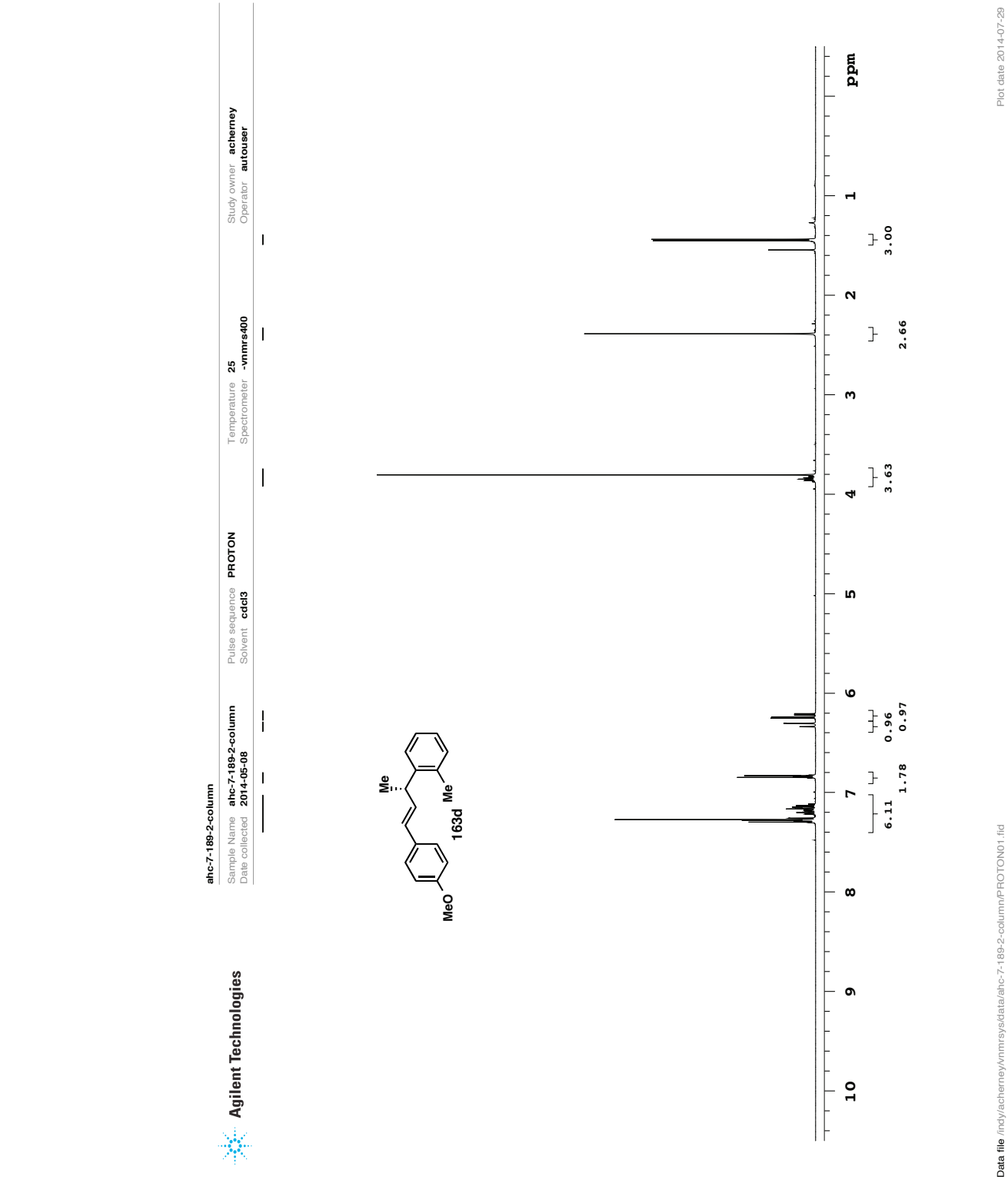

Agilent Technologies
ahc-7-131-8
Sample Name ahc-7-131-8
Date collected 2014-05-12
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
163a
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-131-8/CARBON01.fid

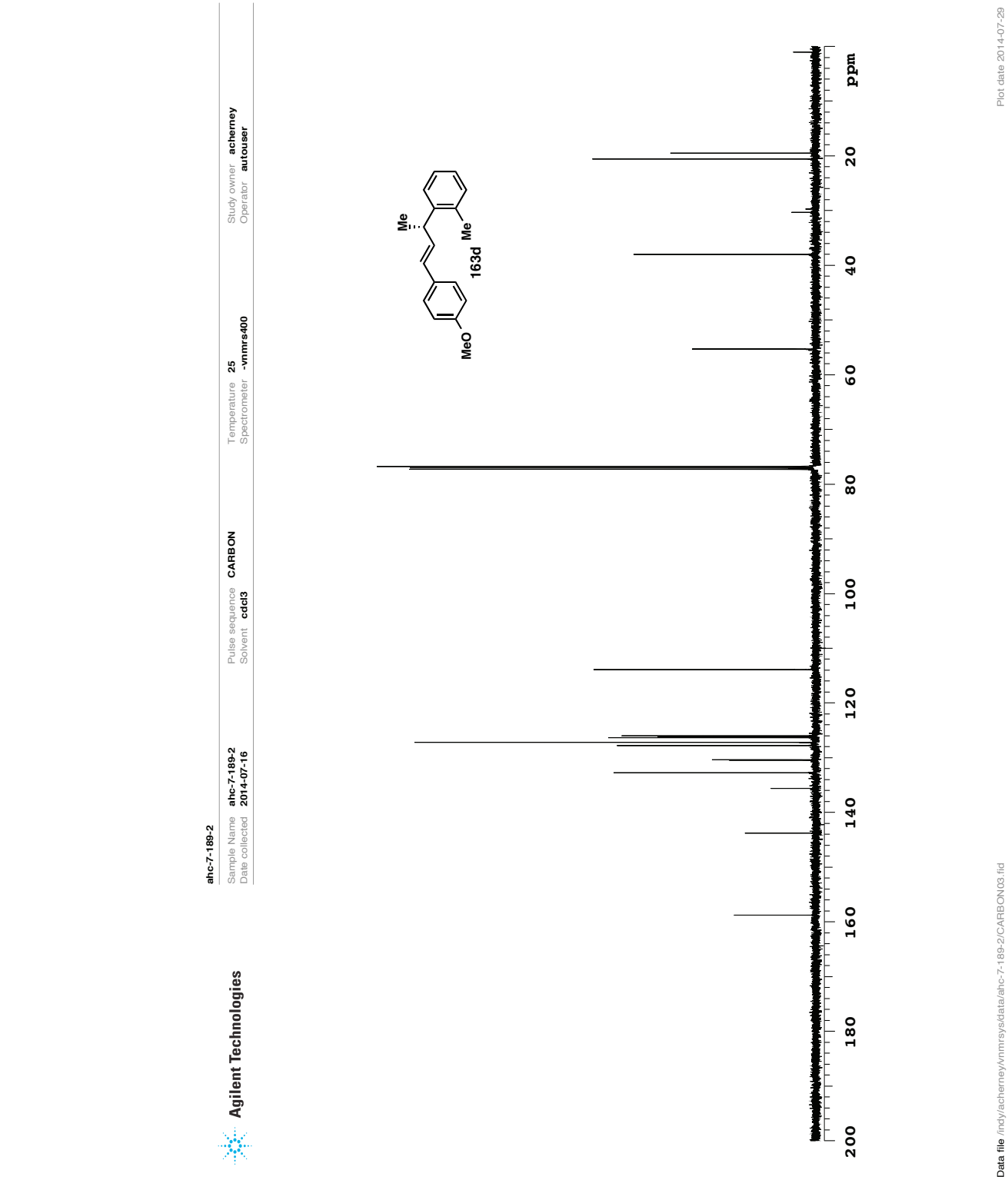

Agilent Technologies
ahc-7-189-1
Sample Name ahc-7-189-1
Date collected 2014-07-15
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
MeO
163b
ppm
2.01
1.94
3.72
1.07
1.05
1.03
3.00
3.01
3.17
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-1/PROTON01.fid

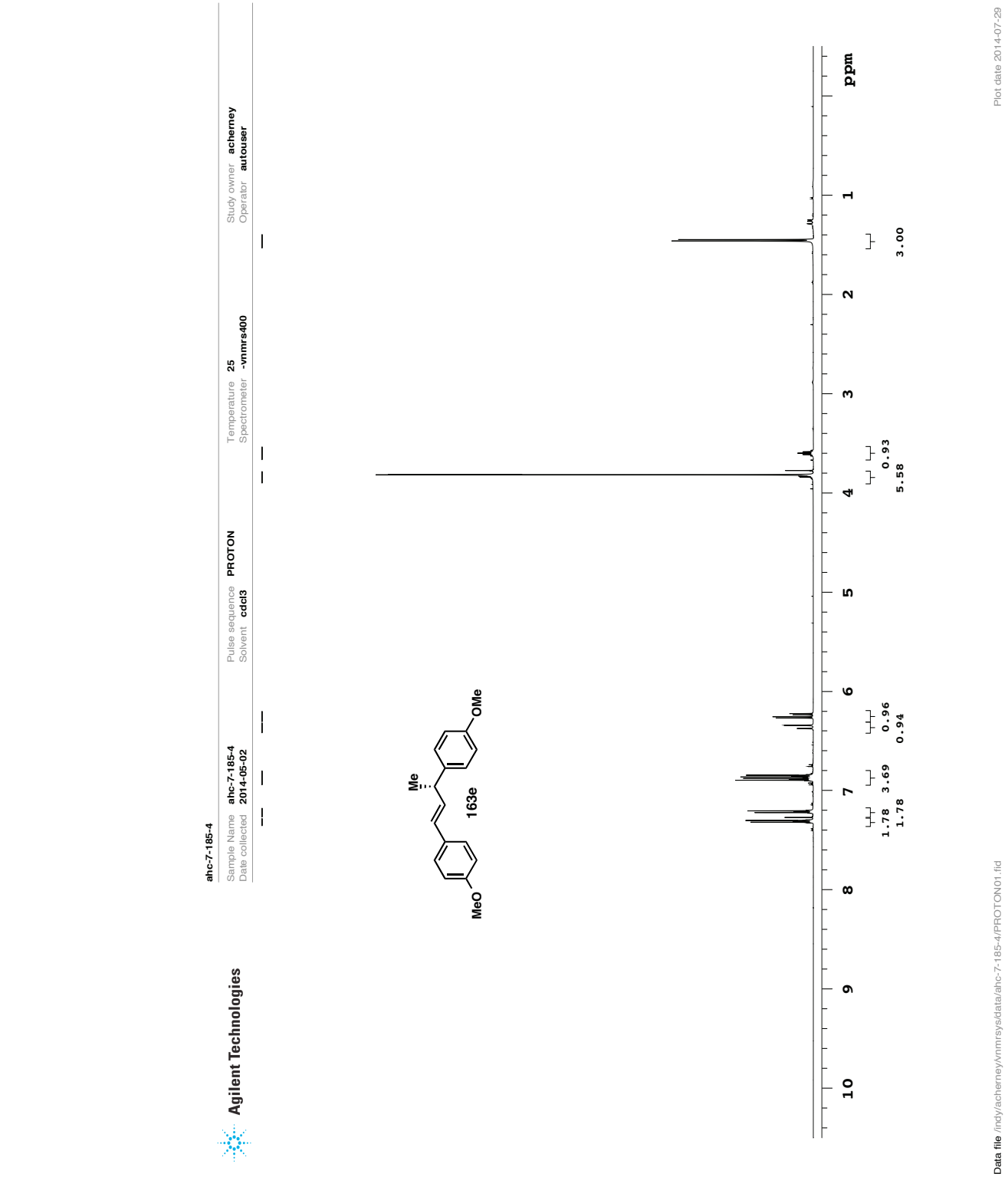

ahc-7-189-2
Sample Name ahc-7-189-2
Date collected 2014-07-16
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
Me
MeO
163b
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-2/CARBON03.fid

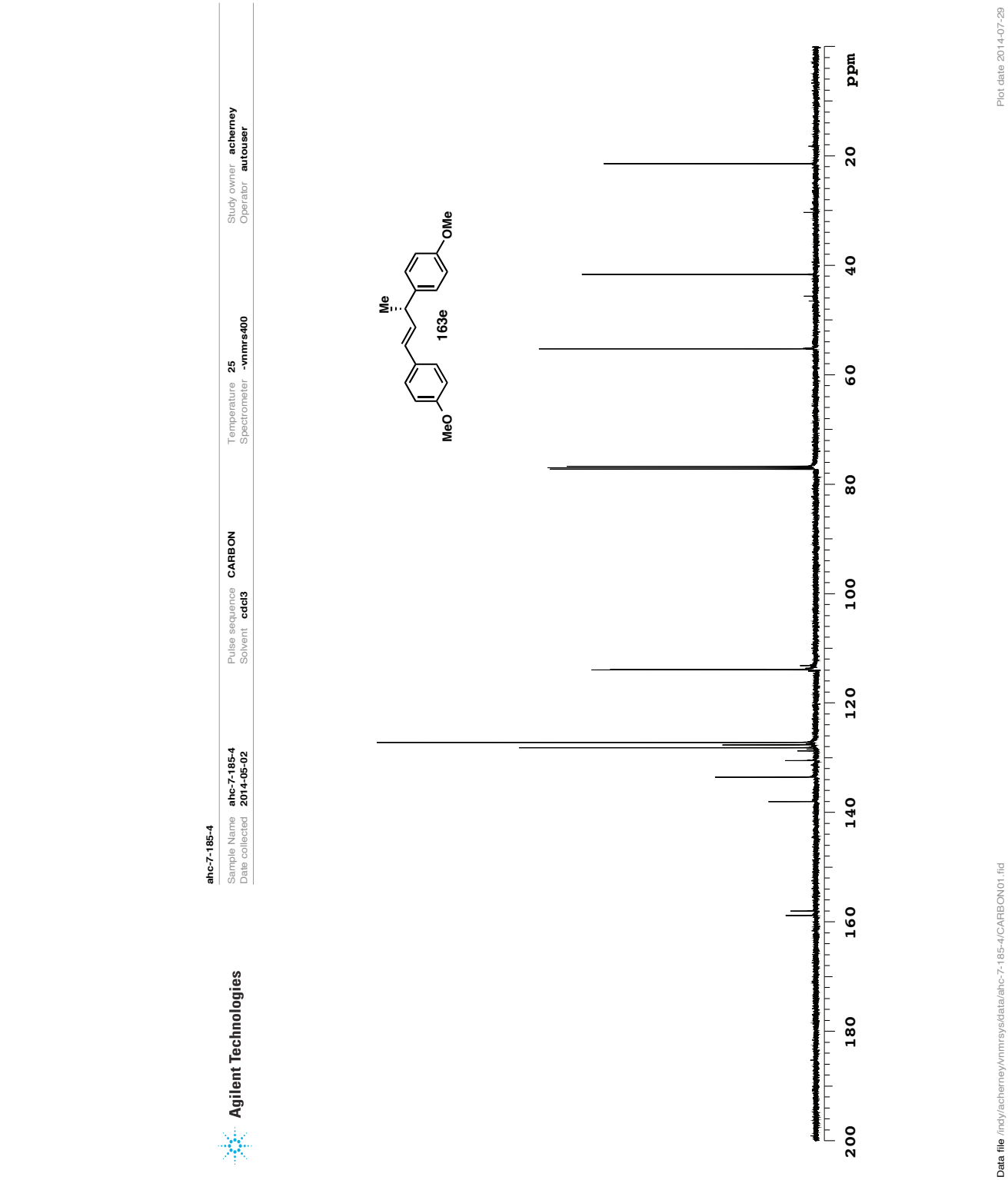

Agilent Technologies
ahc-7-185-2
Sample Name ahc-7-185-2
Date collected 2014-05-01
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
MeO
163c
ppm
1.88 6.76 1.02
1.25 2.12 1.02
3.15 1.01
2.91 3.00
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-2/PROTON01.fid

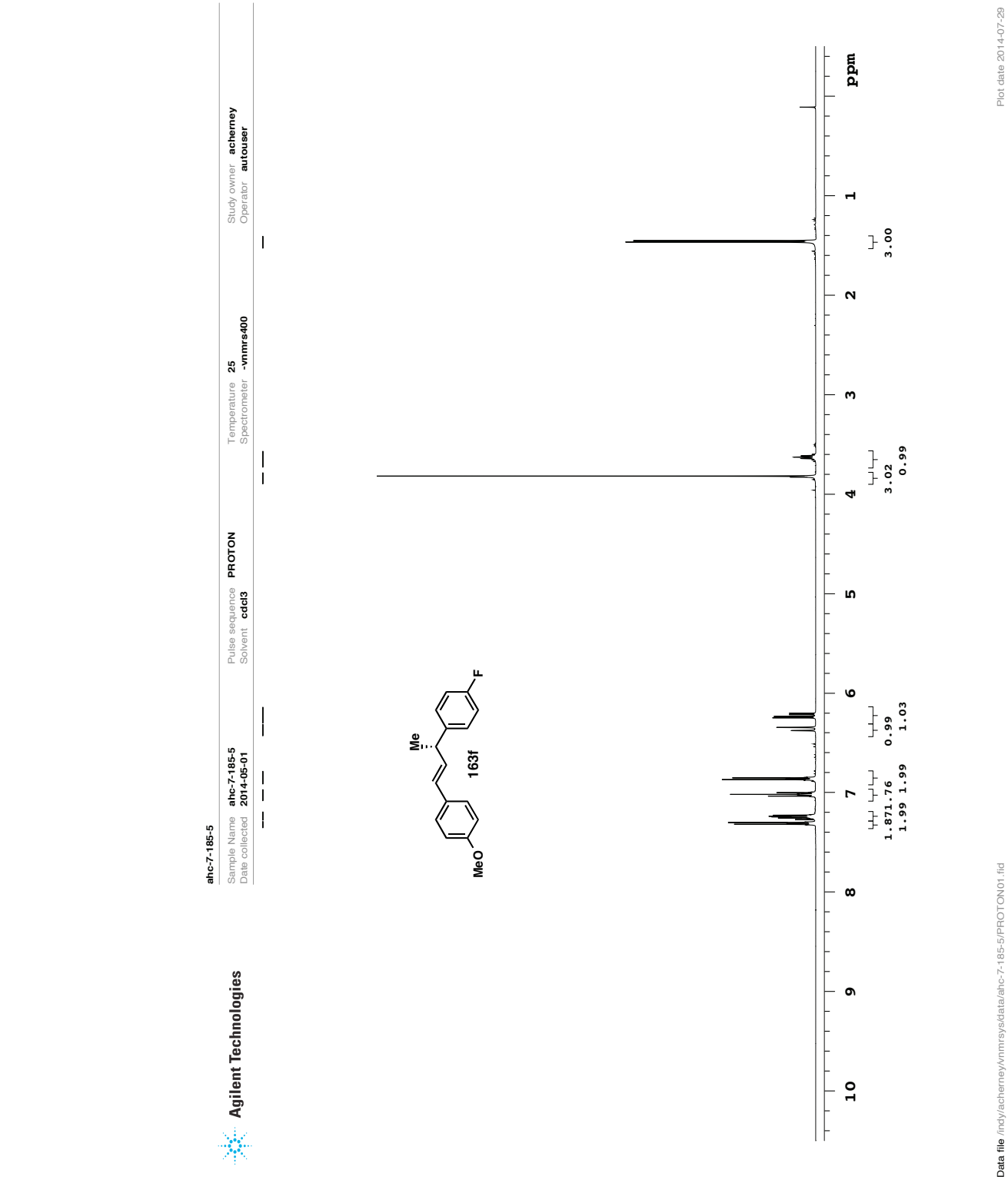

Agilent Technologies
ahc-7-185-2
Sample Name ahc-7-185-2
Date collected 2014-05-01
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
163c
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-2/CARBON01.fid

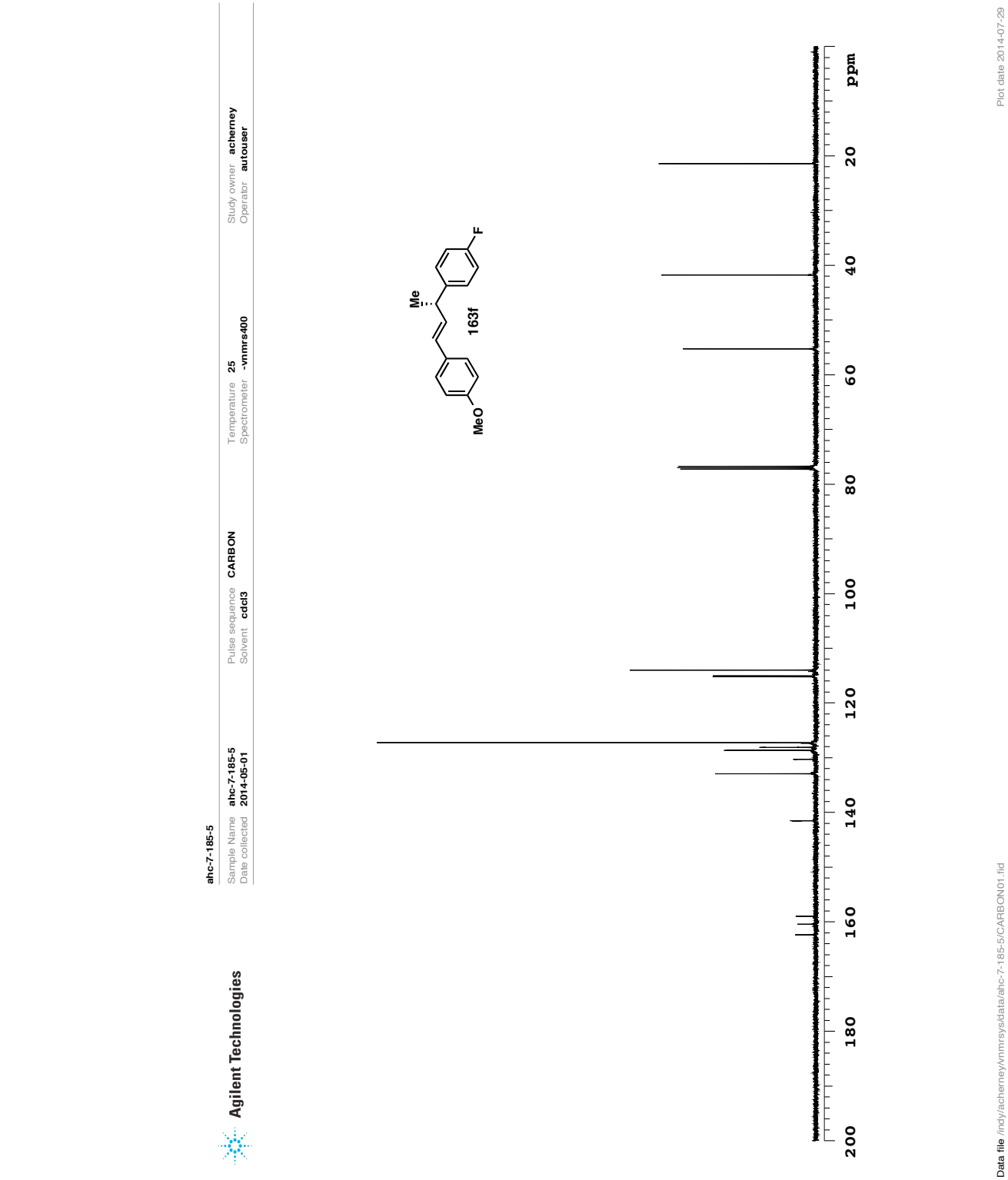

Agilent Technologies
ahc-7-189-2-column
Sample Name ahc-7-189-2-column
Date collected 2014-05-08
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
MeO
163d
6.11
0.96
1.78
0.97
3.63
2.66
3.00
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-189-2-column/PROTON01.fid
Plot date 2014-07-29

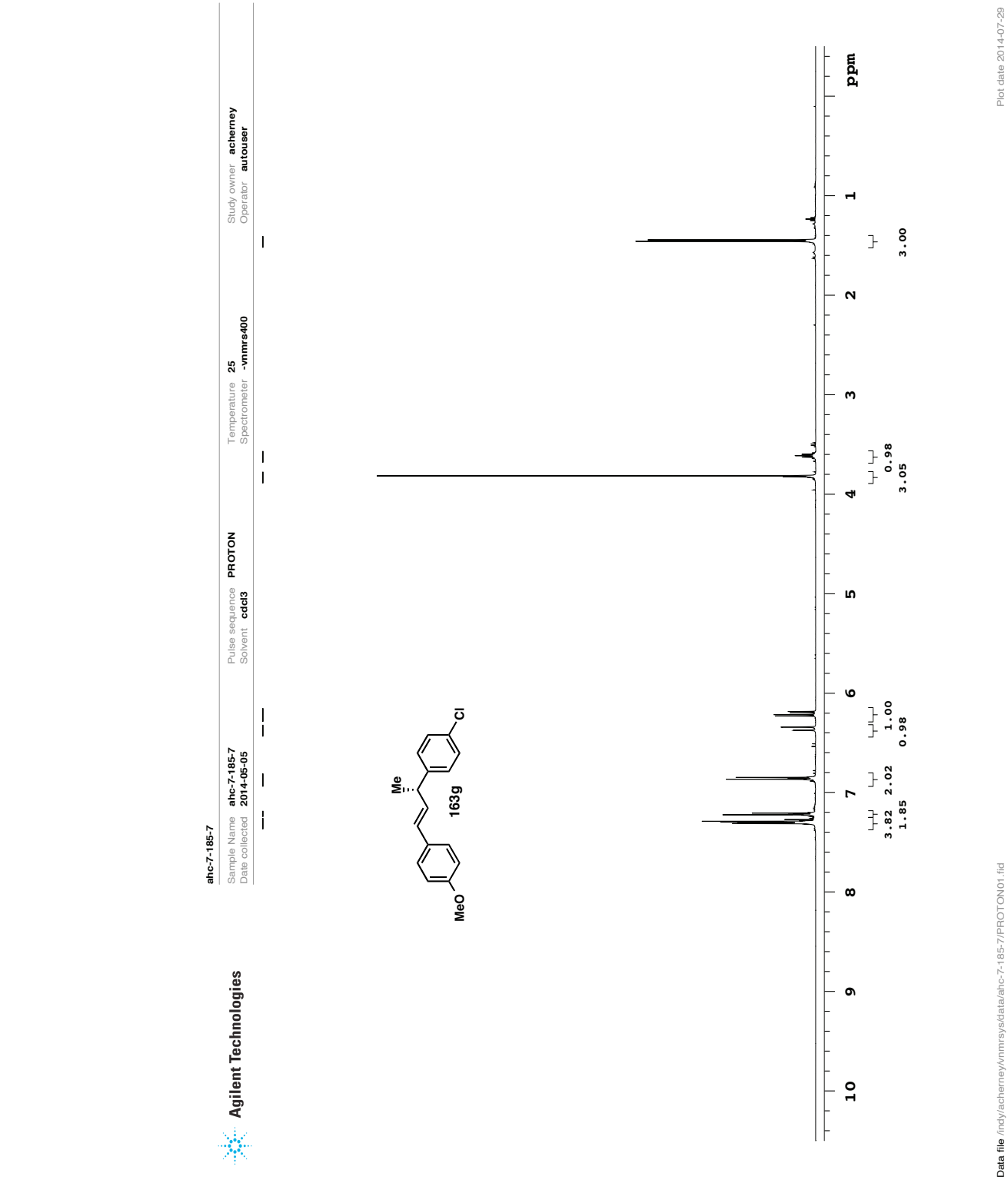

Agilent Technologies
ahc-7-189-2
Sample Name ahc-7-189-2
Date collected 2014-07-16
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
MeO
163d
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-2/CARBON03.fid

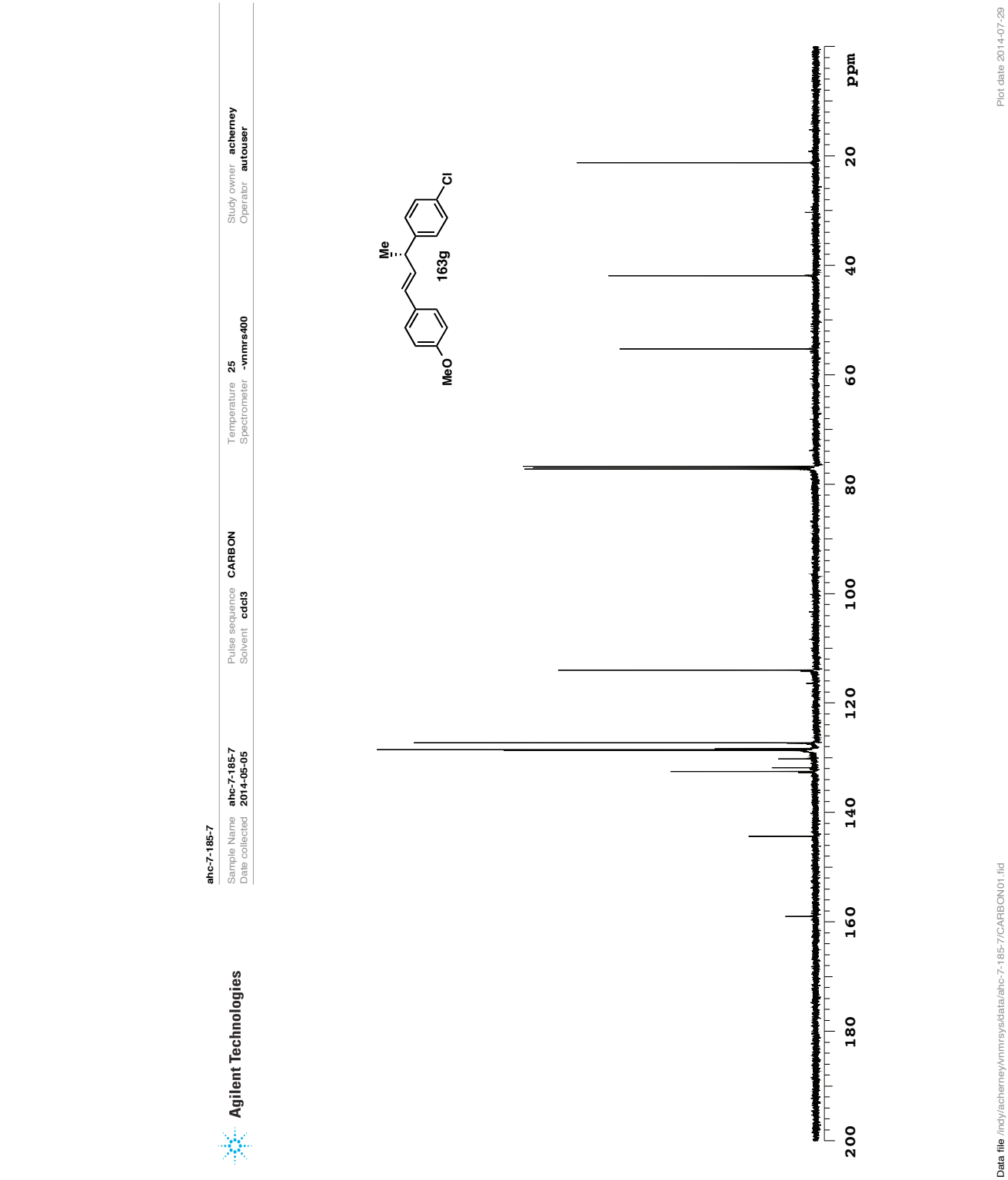

Agilent Technologies
ahc-7-185-4
Sample Name ahc-7-185-4
Date collected 2014-05-02
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
OMe
MeO
163e
ppm
1.78
3.69
0.96
1.78
0.94
0.93
5.58
3.00
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-4/PROTON01.fid

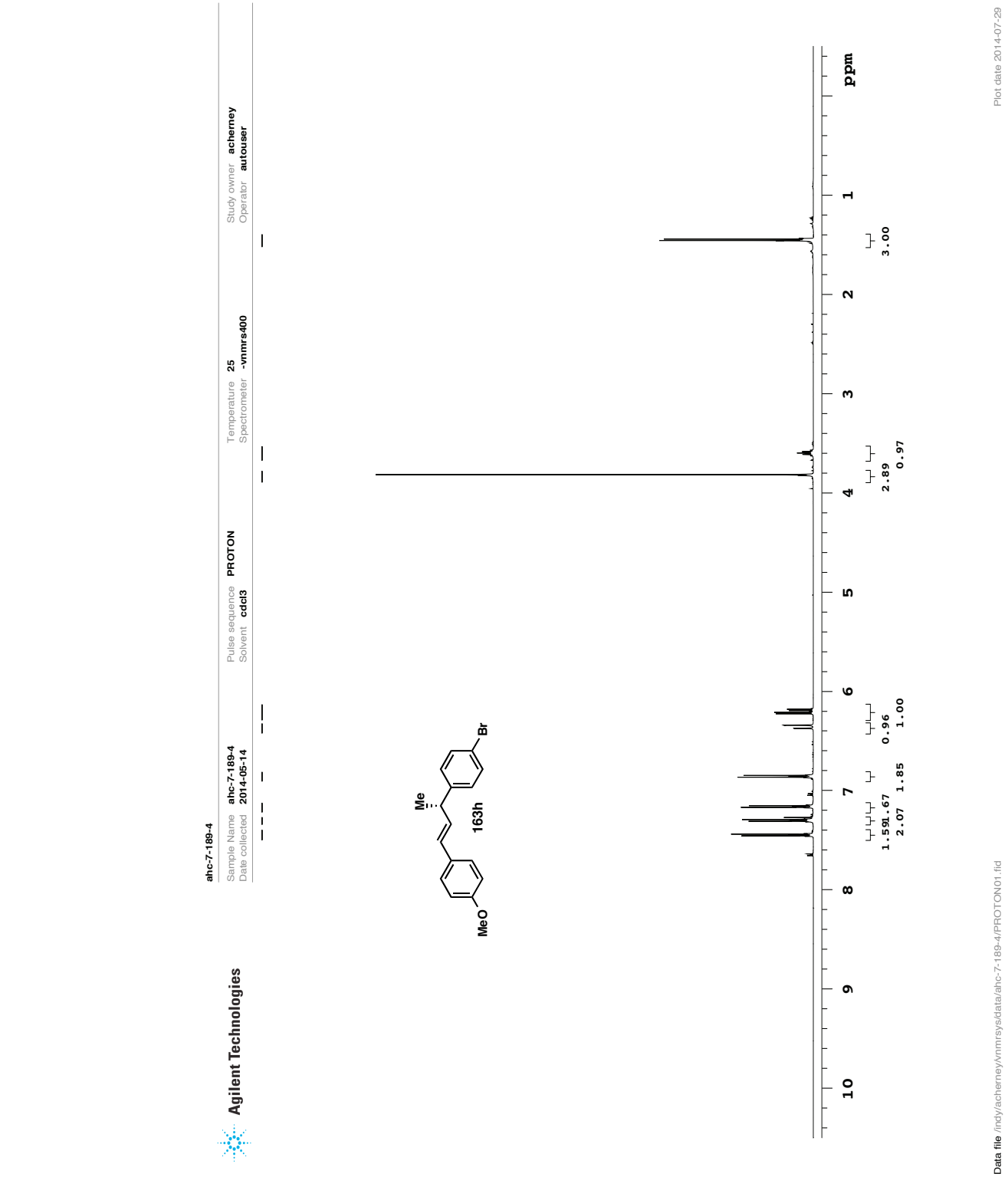

ahc-7-185-4
Sample Name ahc-7-185-4
Date collected 2014-05-02
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
163e
OMe
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-4/CARBON01.fid

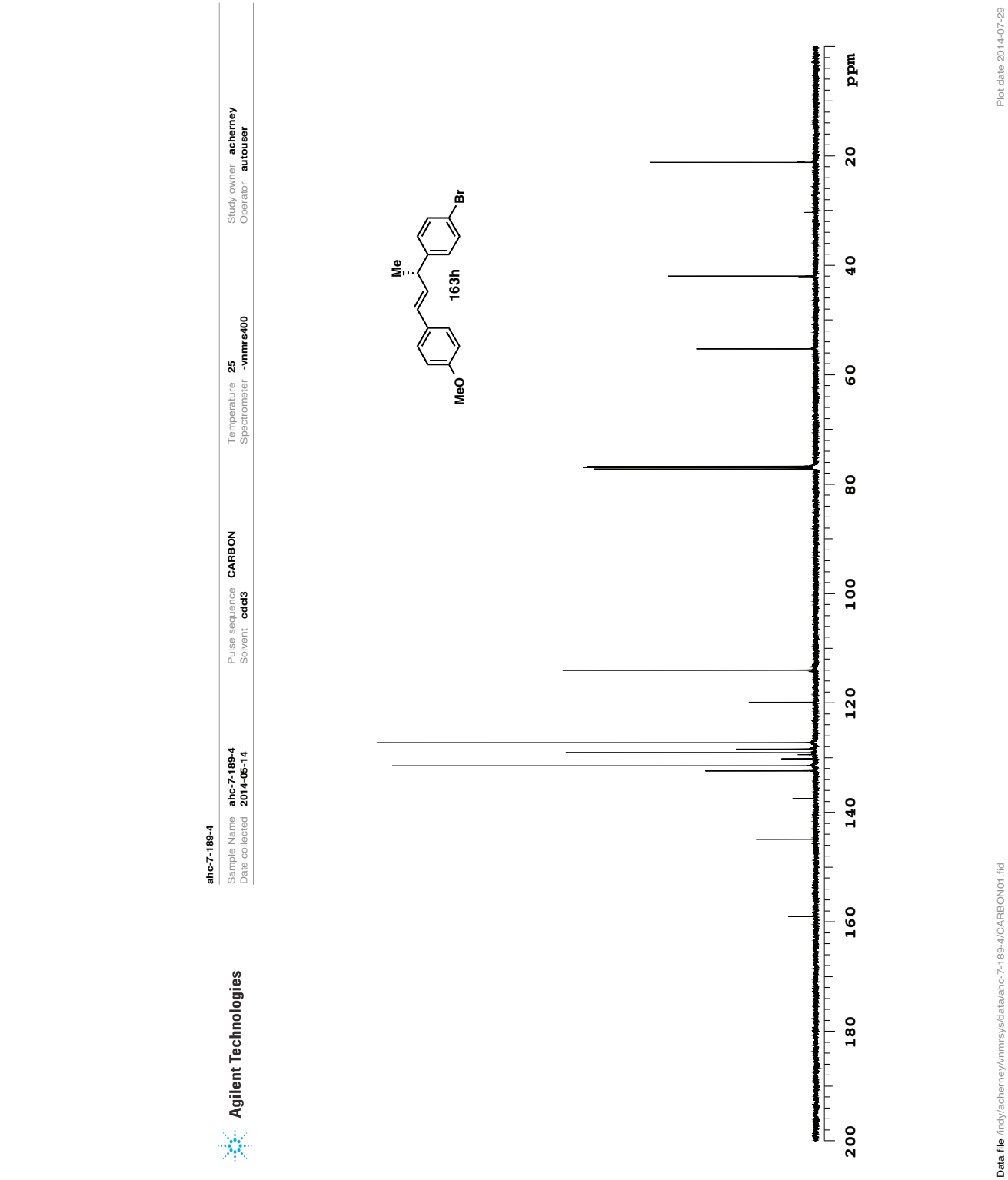

Agilent Technologies
ahc-7-185-5
Sample Name ahc-7-185-5
Date collected 2014-05-01
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
F
MeO
163f
ppm
1.871.76
1.99 1.99
0.99
1.03
3.02
0.99
3.00
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-5/PROTON01.fid

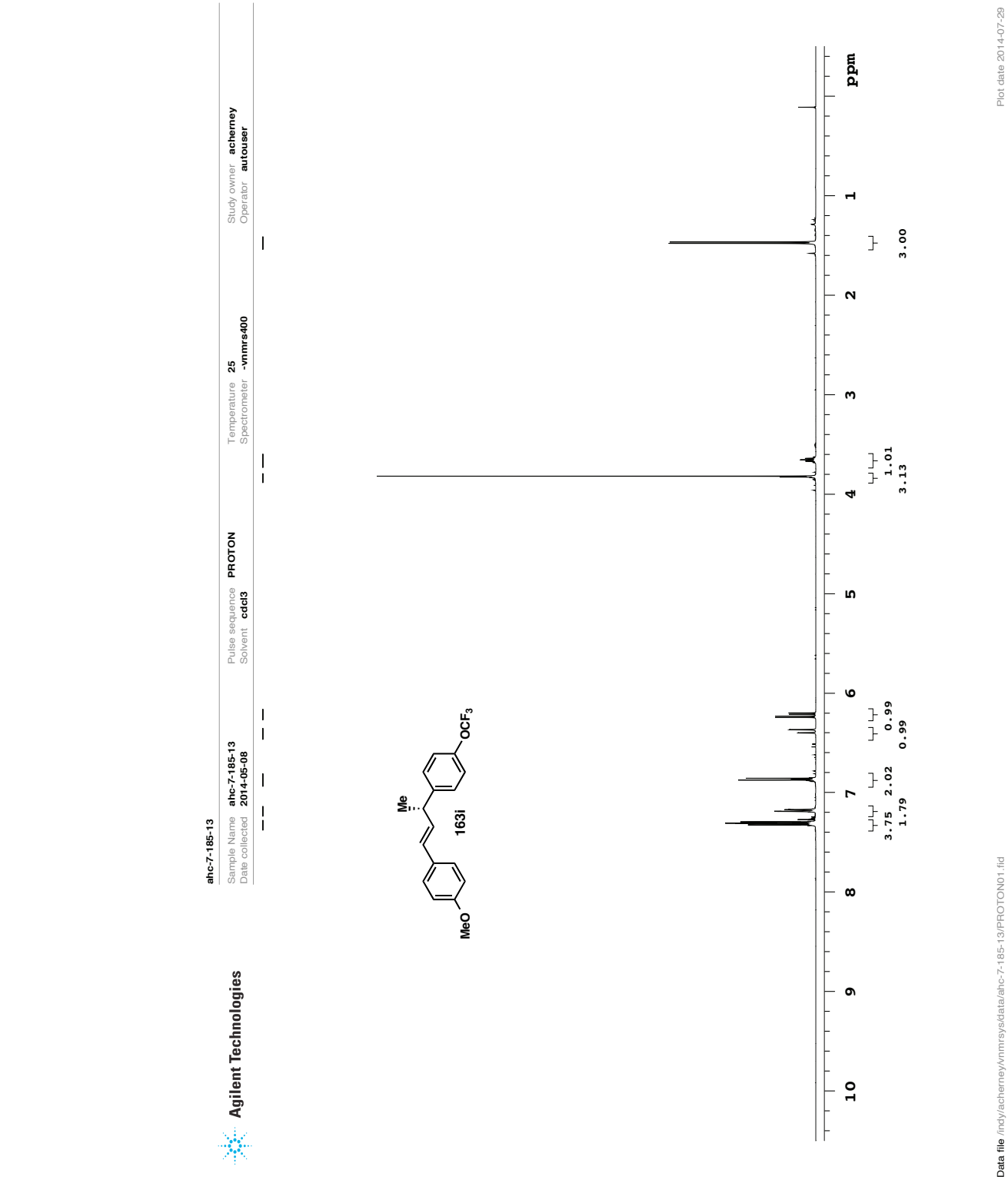

Agilent Technologies
ahc-7-185-5
Sample Name ahc-7-185-5
Date collected 2014-05-01
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
163f
F
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-5/CARBON01.fid

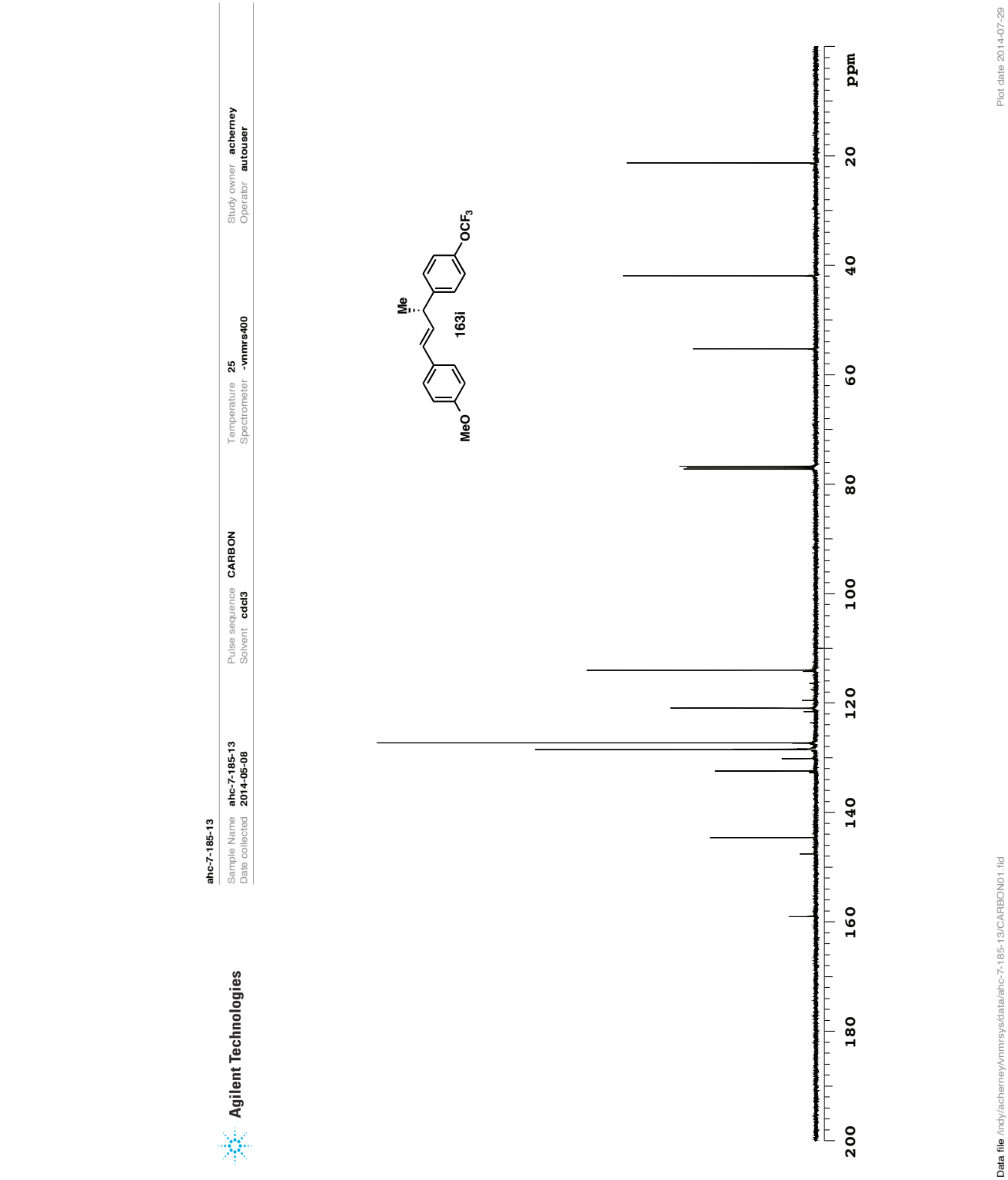

Agilent Technologies
ahc-7-185-7
Sample Name ahc-7-185-7
Date collected 2014-05-05
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Cl
MeO
163g
ppm
10
9
8
7
6
5
4
3
2
1
3.82
2.02
1.00
1.85
0.98
0.98
3.05
3.00
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-7/PROTON01.fid

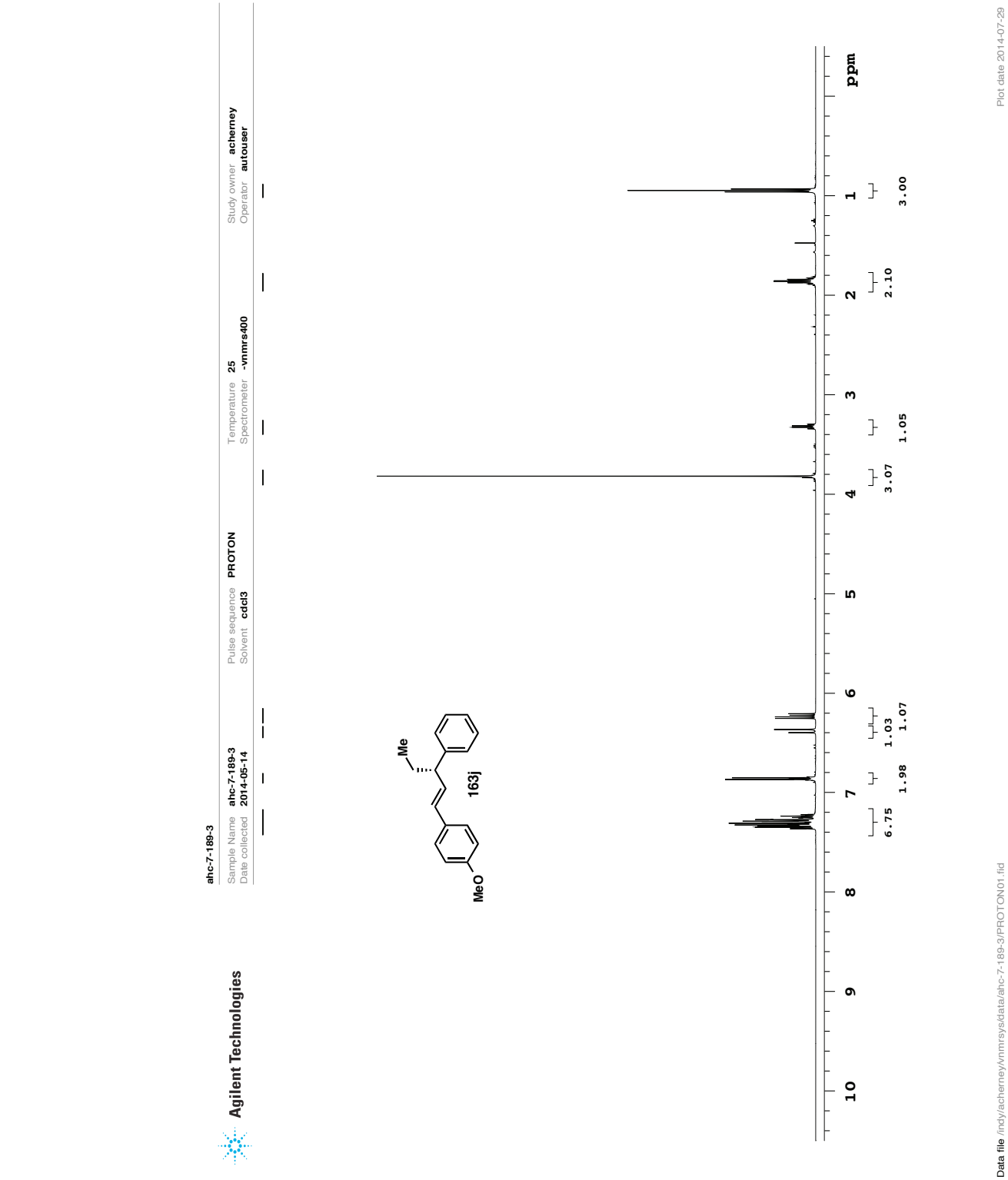

Agilent Technologies
ahc-7-185-7
Sample Name ahc-7-185-7
Date collected 2014-05-05
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
163g
Cl
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-7/CARBON01.fid

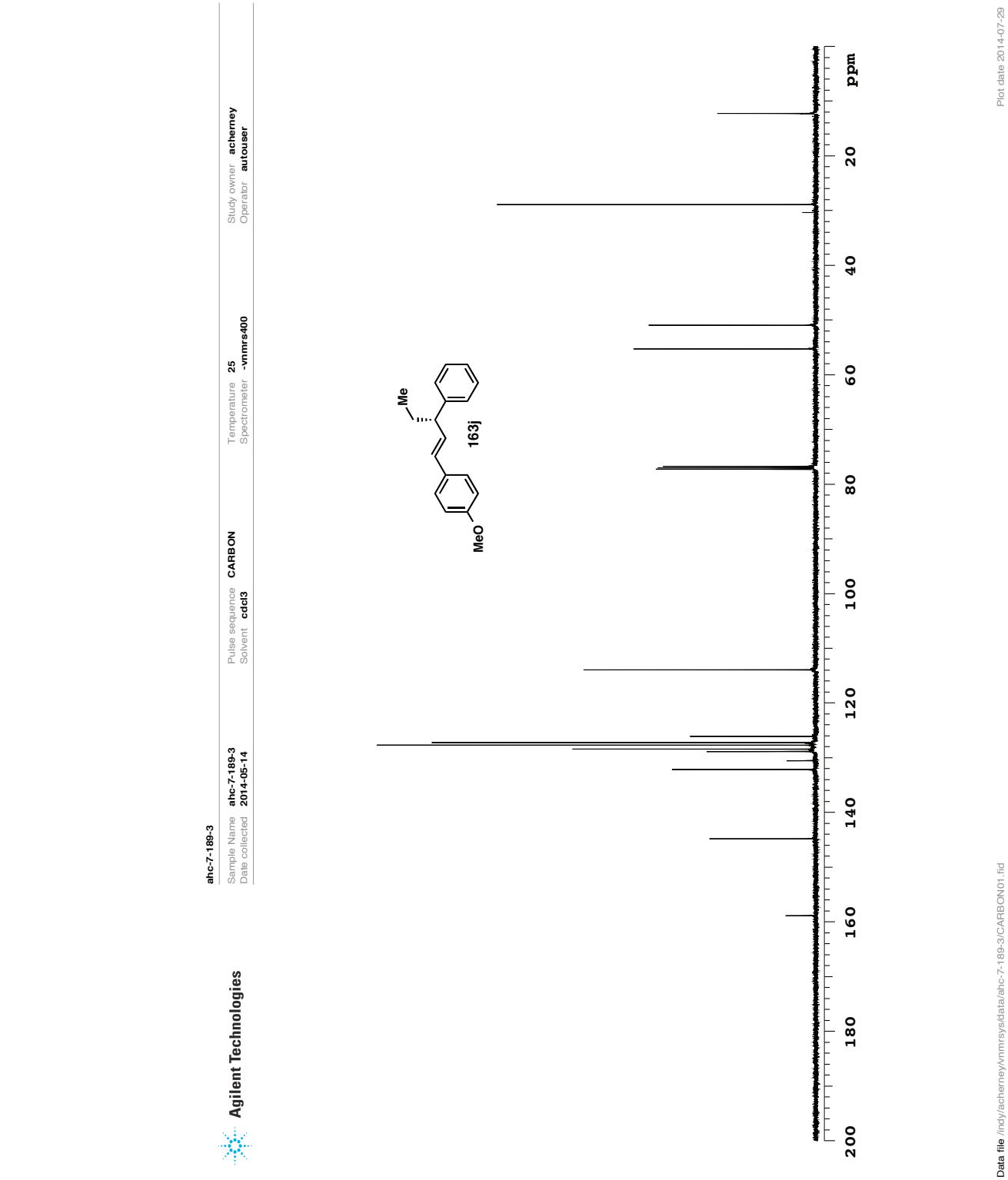

ahc-7-189-4
Agilent Technologies
Sample Name ahc-7-189-4
Date collected 2014-05-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Br
163h
MeO
1.59
1.67
2.07
1.85
0.96
1.00
2.89
0.97
3.00
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-4/PROTON01.fid

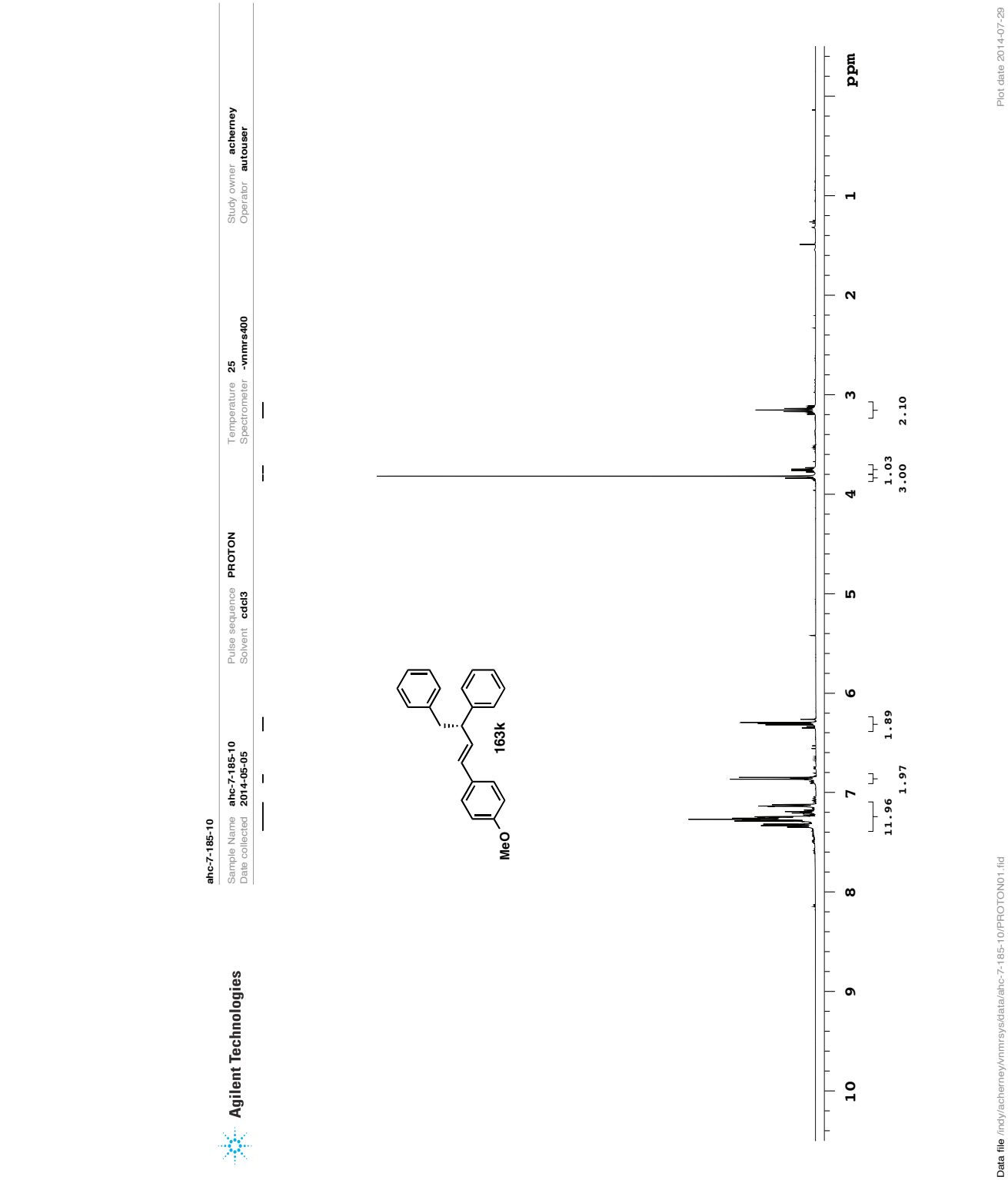

Agilent Technologies
ahc-7-189-4
Sample Name ahc-7-189-4
Date collected 2014-05-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
163h
Br
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-4/CARBON01.fid

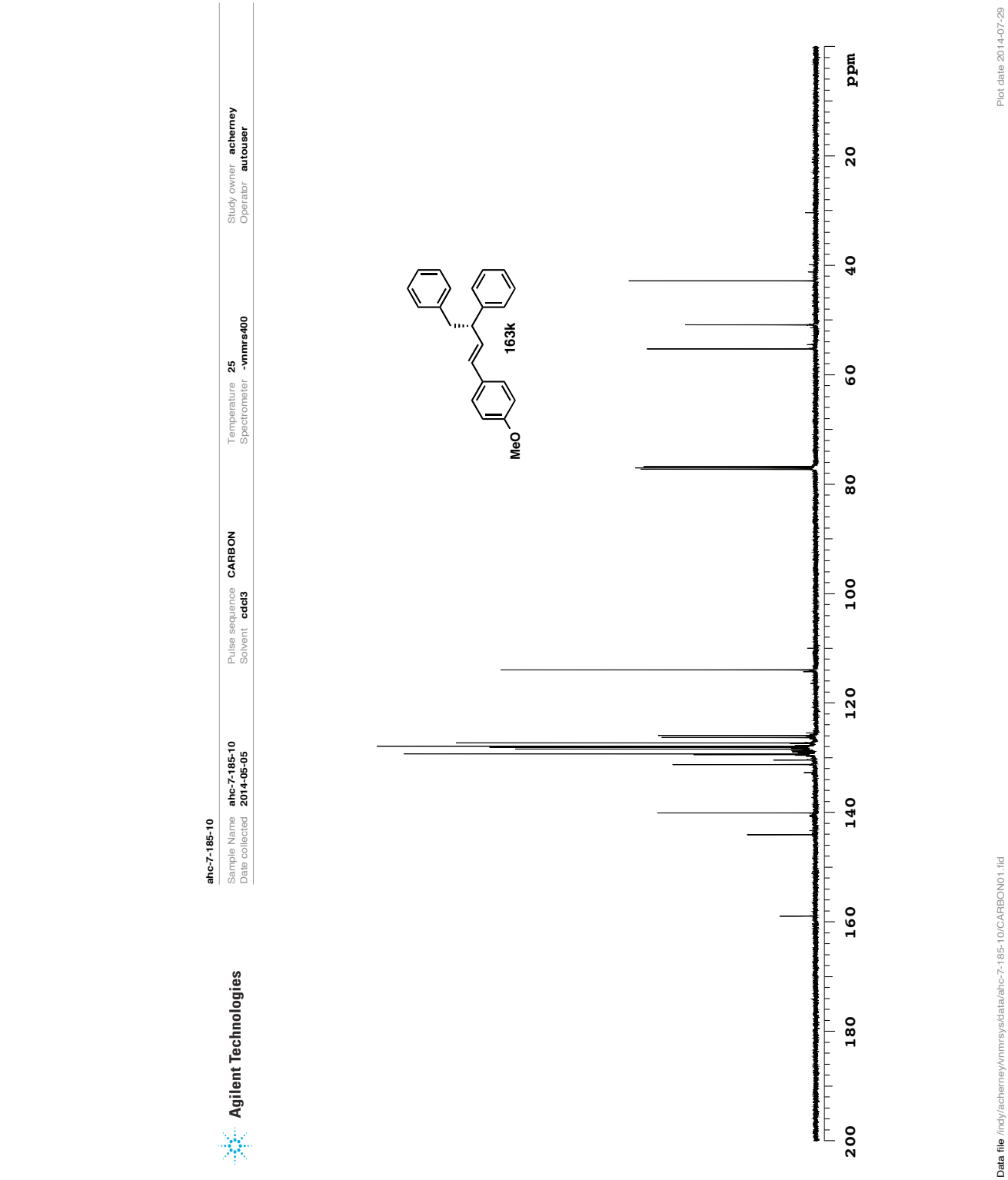

Agilent Technologies
ahc-7-185-13
Sample Name ahc-7-185-13
Date collected 2014-05-08
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
163i
OCF3
MeO
3.75
2.02
1.79
0.99
0.99
1.01
3.13
3.00
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-185-13/PROTON01.fid
Plot date 2014-07-29

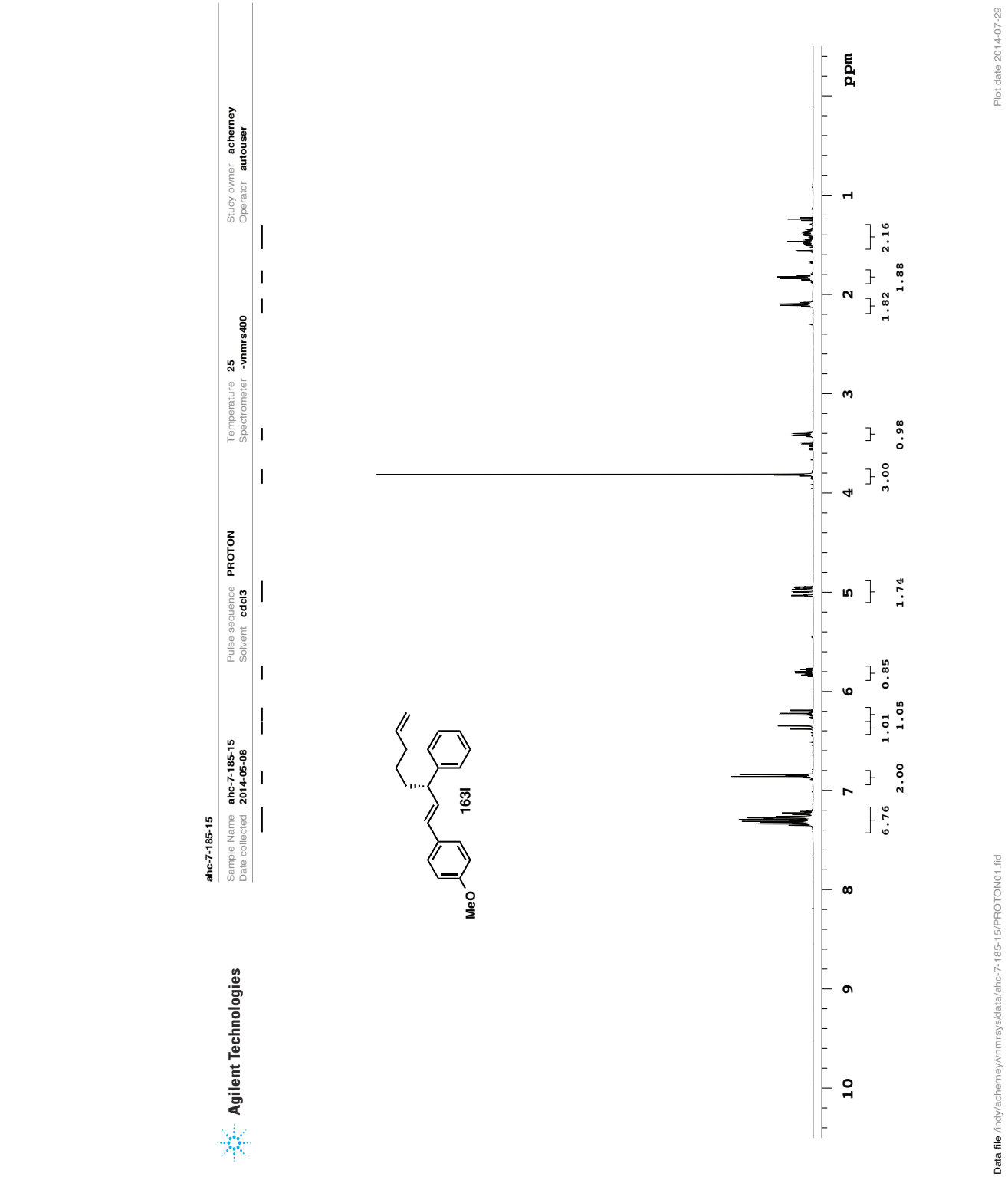

ahc-7-185-13
Sample Name ahc-7-185-13
Date collected 2014-05-08
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
163i
MeO
OCF3
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-185-13/CARBON01.fid
Plot date 2014-07-29

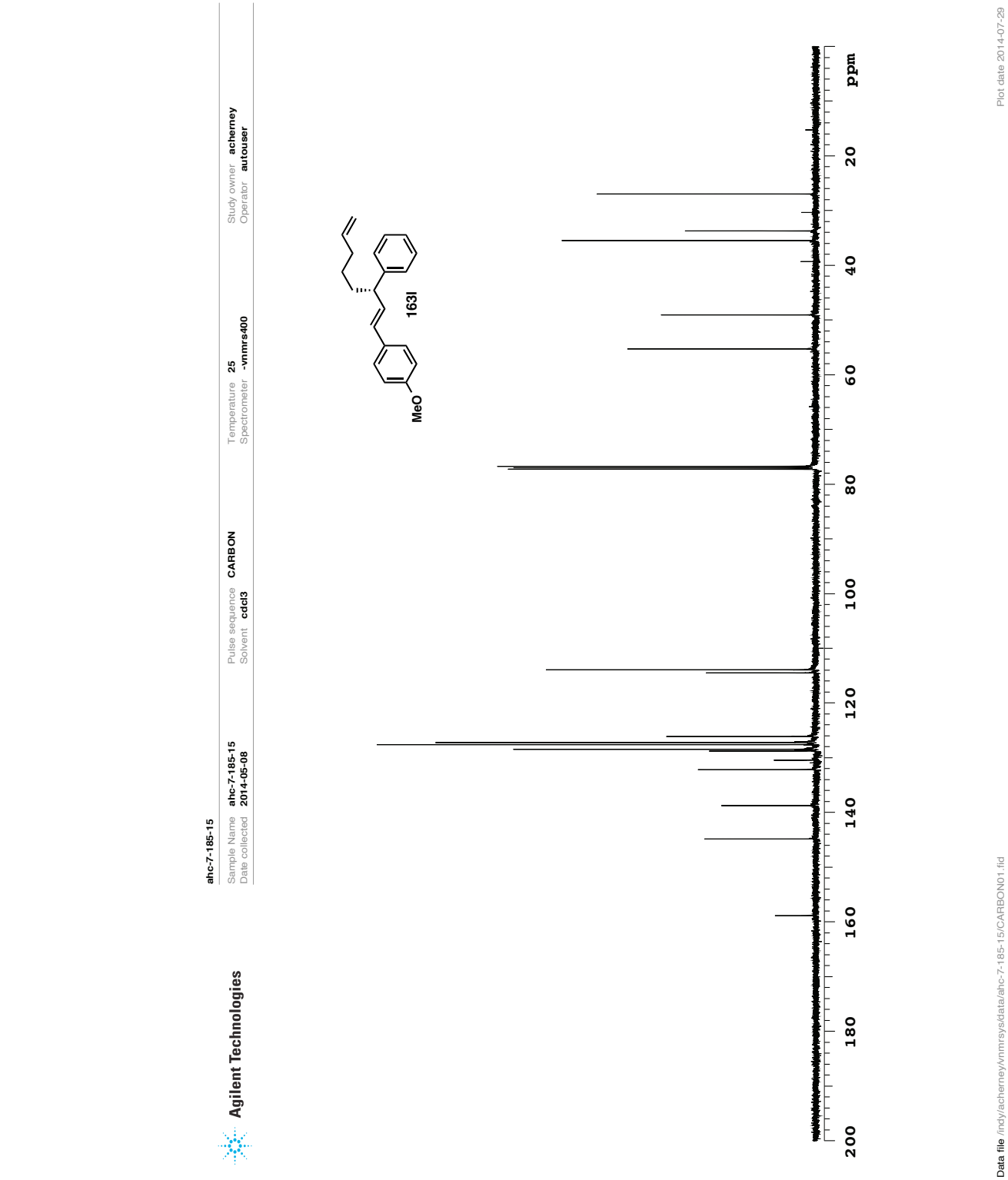

ahc-7-189-3
Sample Name ahc-7-189-3
Date collected 2014-05-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
MeO
163j
ppm
10
9
8
7
6
5
4
3
2
1
6.75
1.98
1.03
1.07
3.07
1.05
2.10
3.00
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-3/PROTON01.fid

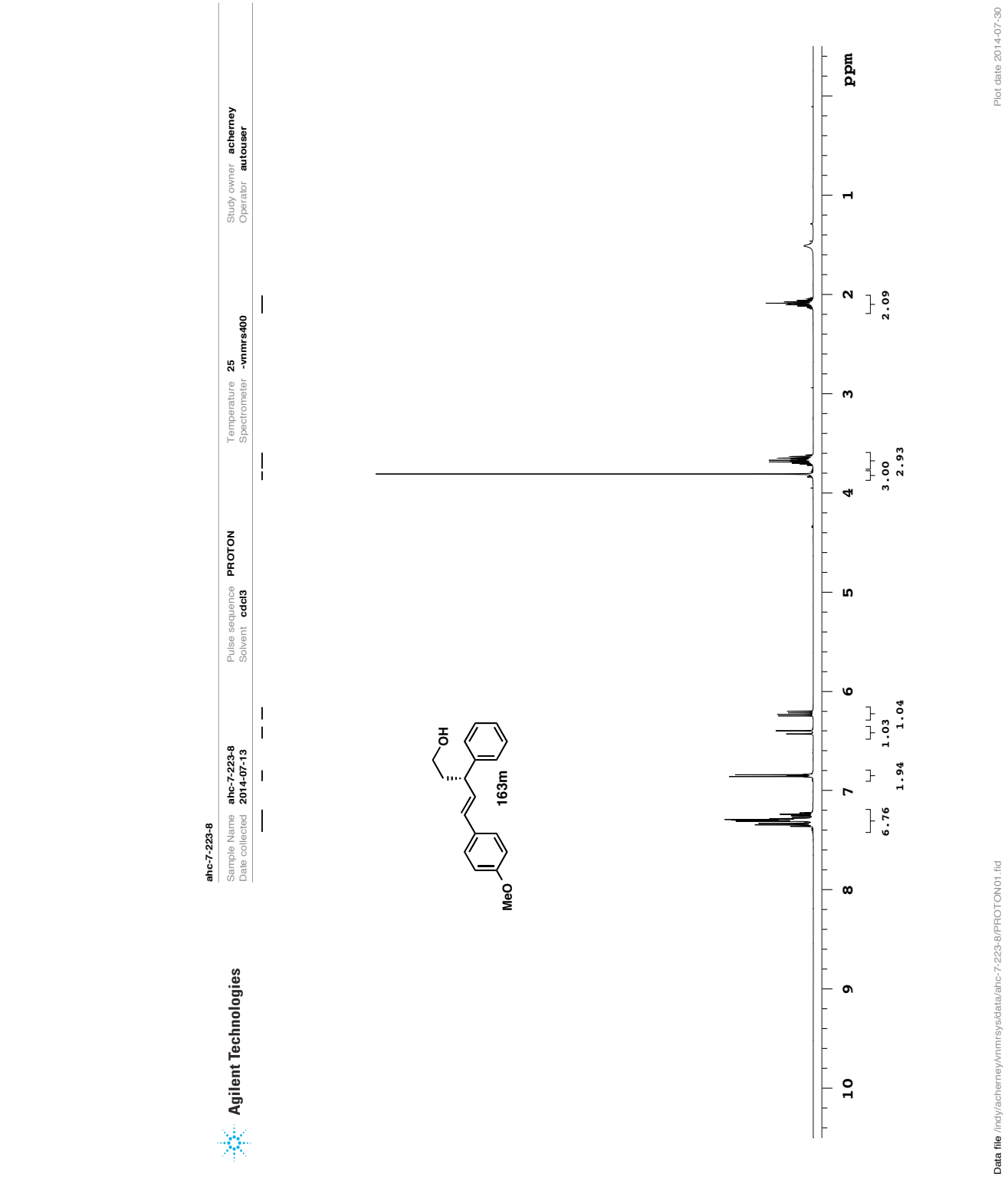

Agilent Technologies
ahc-7-189-3
Sample Name ahc-7-189-3
Date collected 2014-05-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
MeO
163j
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-189-3/CARBON01.fid

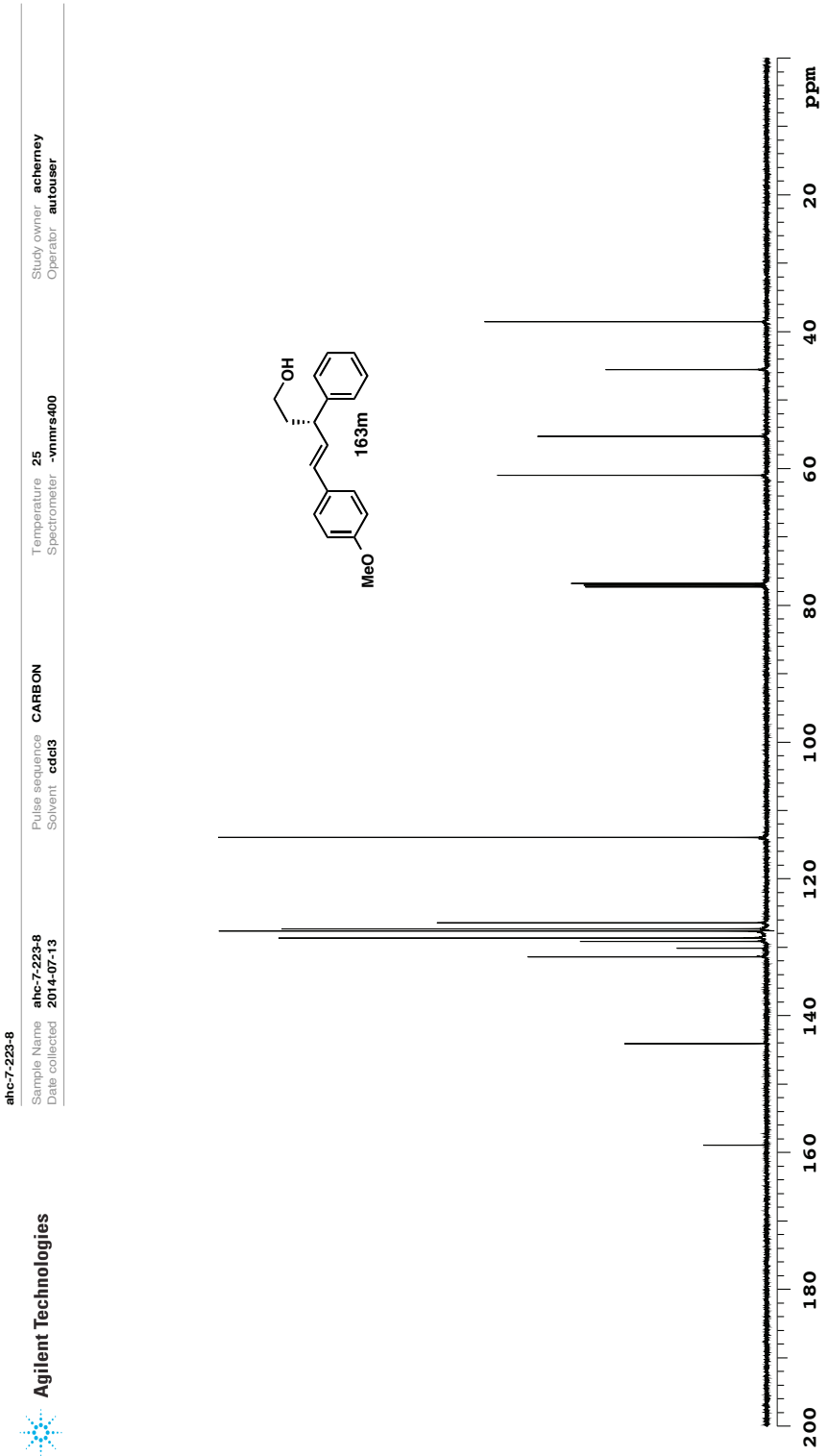

Agilent Technologies
ahc-7-185-10
Sample Name ahc-7-185-10
Date collected 2014-05-05
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
MeO
163k
ppm
11.96
1.89
1.97
1.03
3.00
2.10
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-10/PROTON01.fid

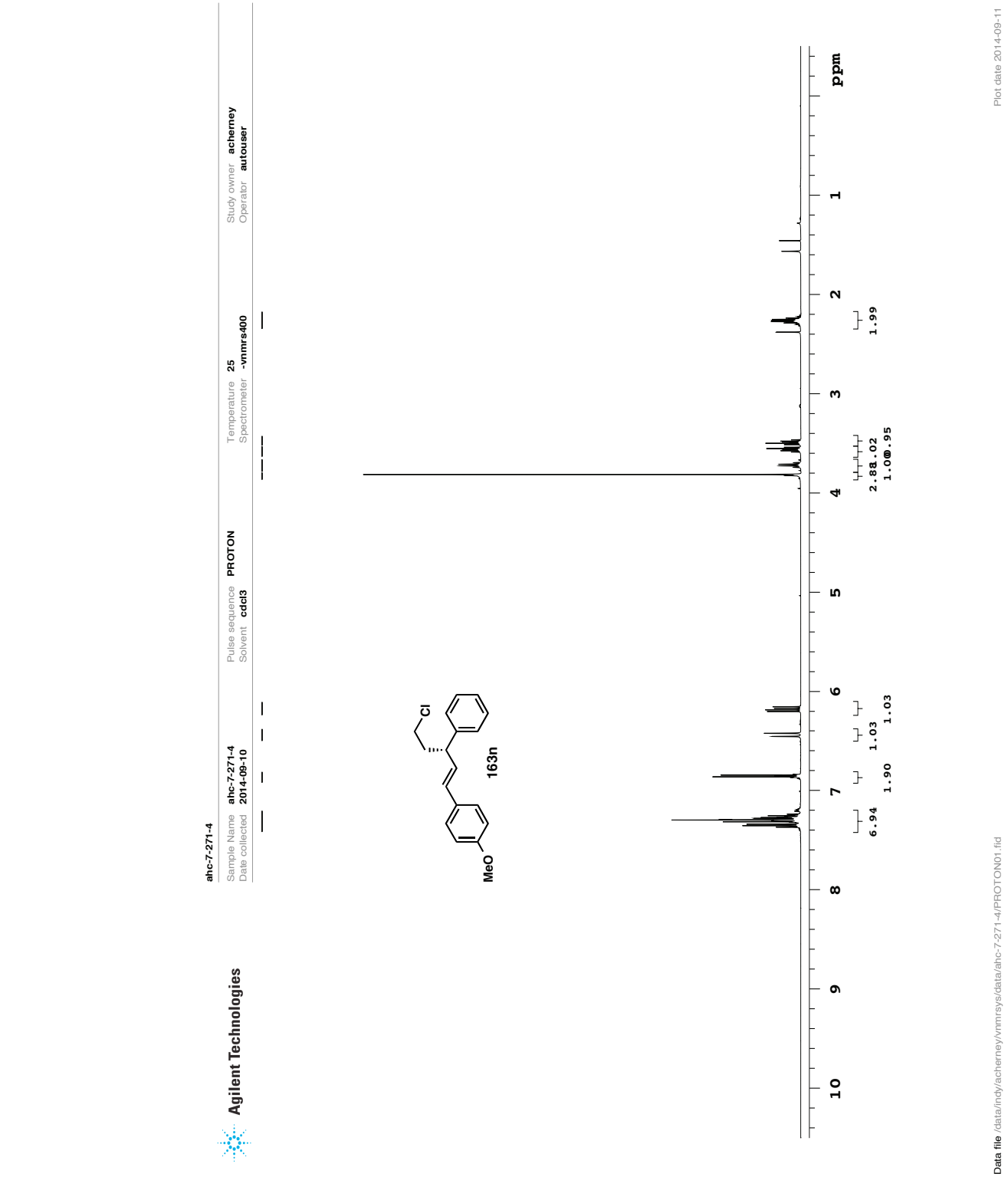

Agilent Technologies
ahc-7-185-10
Sample Name ahc-7-185-10
Date collected 2014-05-05
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
163k
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-10/CARBON01.fid

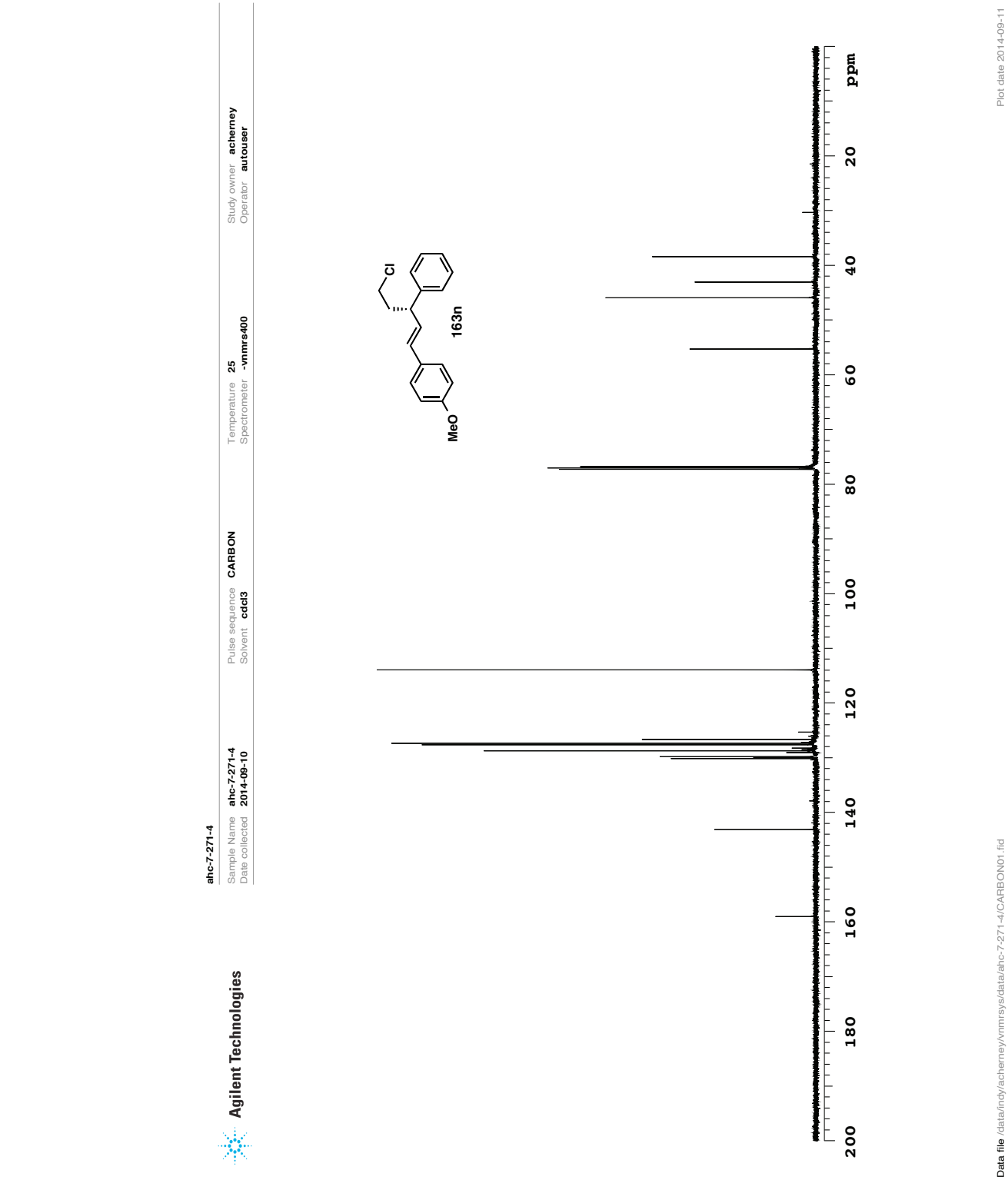

Agilent Technologies
ahc-7-185-15
Sample Name ahc-7-185-15
Date collected 2014-05-08
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
163l
MeO
10 9 8 7 6 5 4 3 2 1 ppm
6.76 2.00
1.01 1.05
0.85
1.74
3.00 0.98
1.82 1.88
2.16
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-15/PROTON01.fid

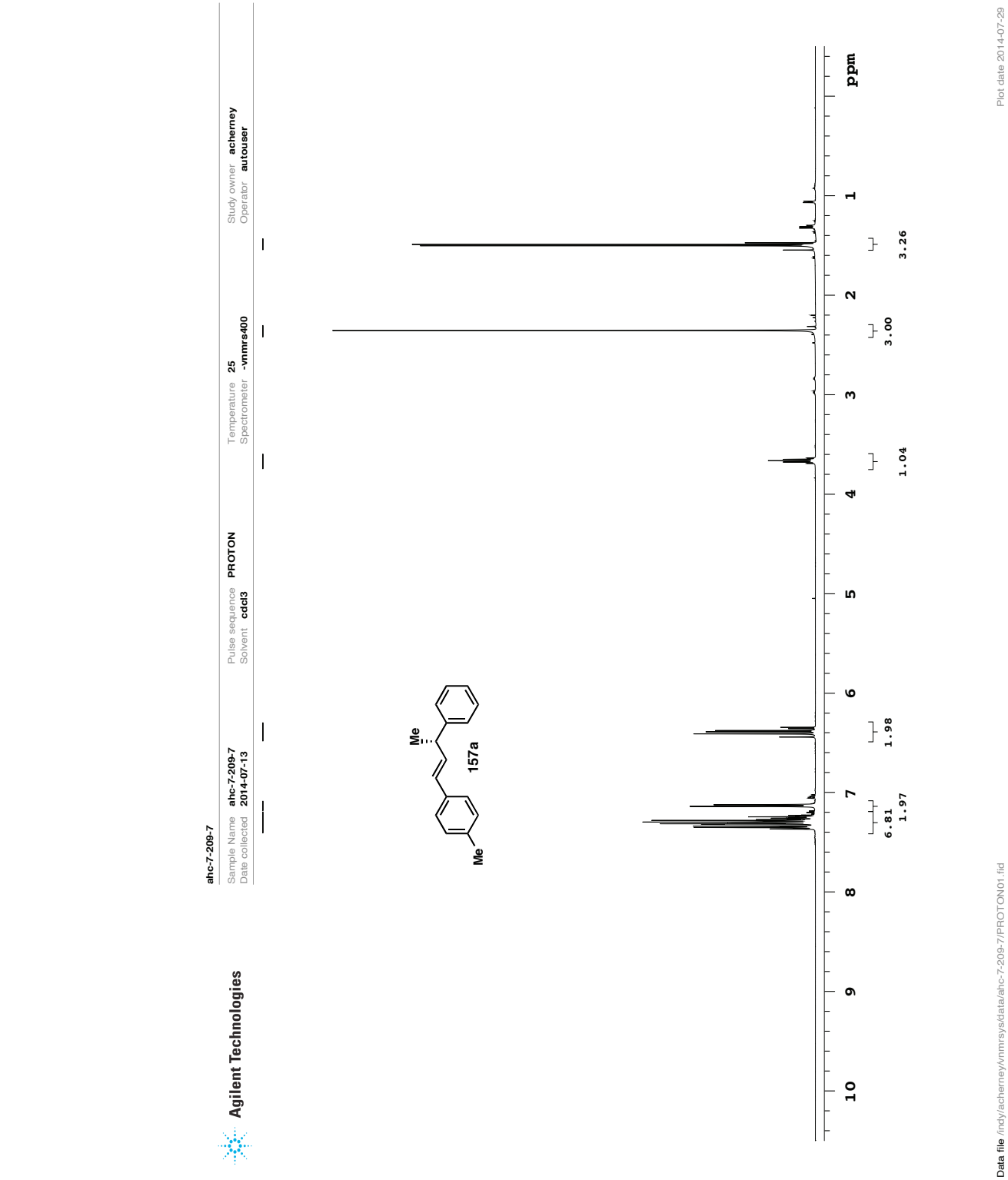

ahc-7-185-15
Sample Name ahc-7-185-15
Date collected 2014-05-08
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
163l
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-185-15/CARBON01.fid

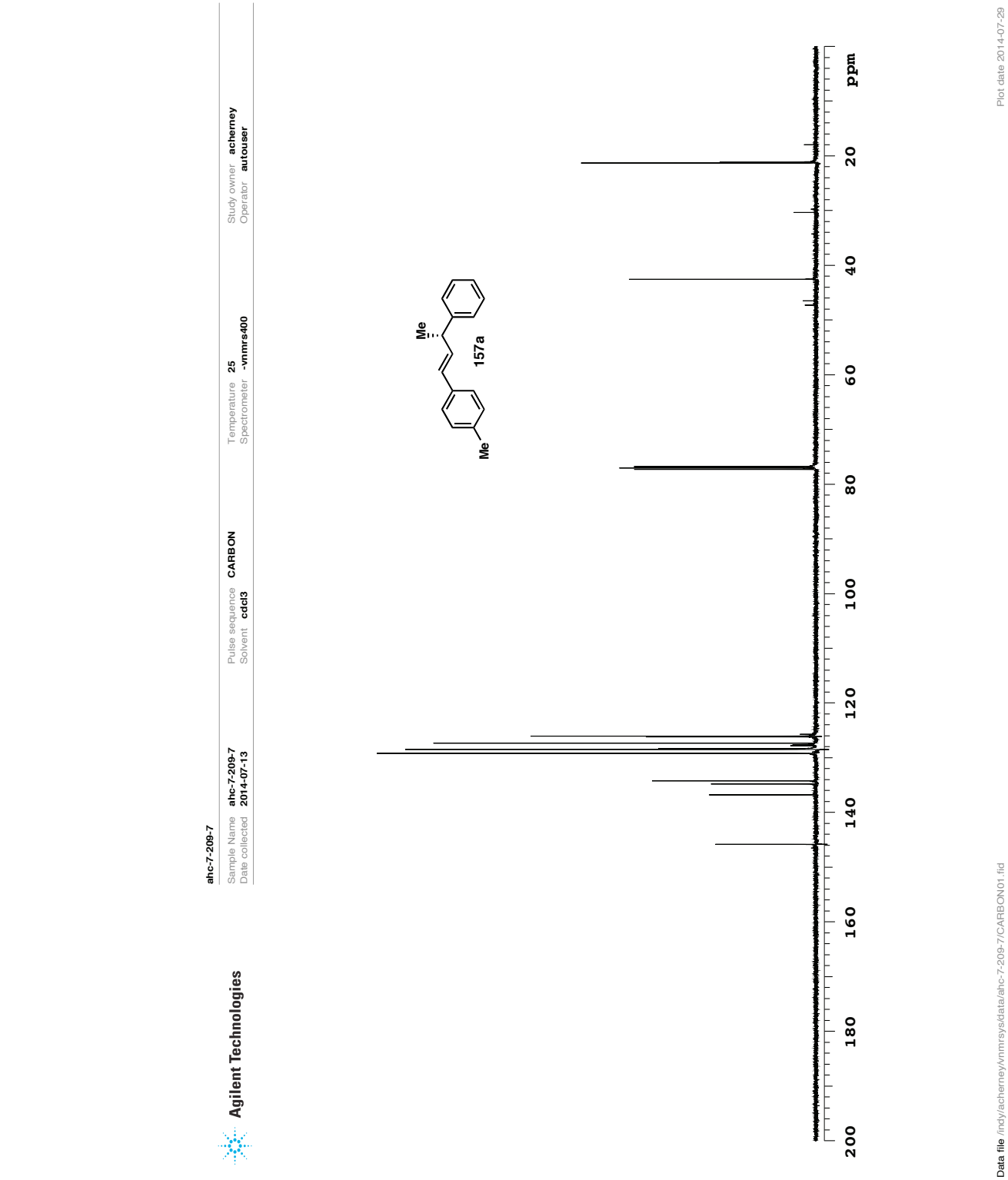

Agilent Technologies
ahc-7-223-8
Sample Name ahc-7-223-8
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
OH
MeO
163m
ppm
10
9
8
7
6
5
4
3
2
1
6.76
1.03
1.04
1.94
3.00
2.93
2.09
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-223-8/PROTON01.fid

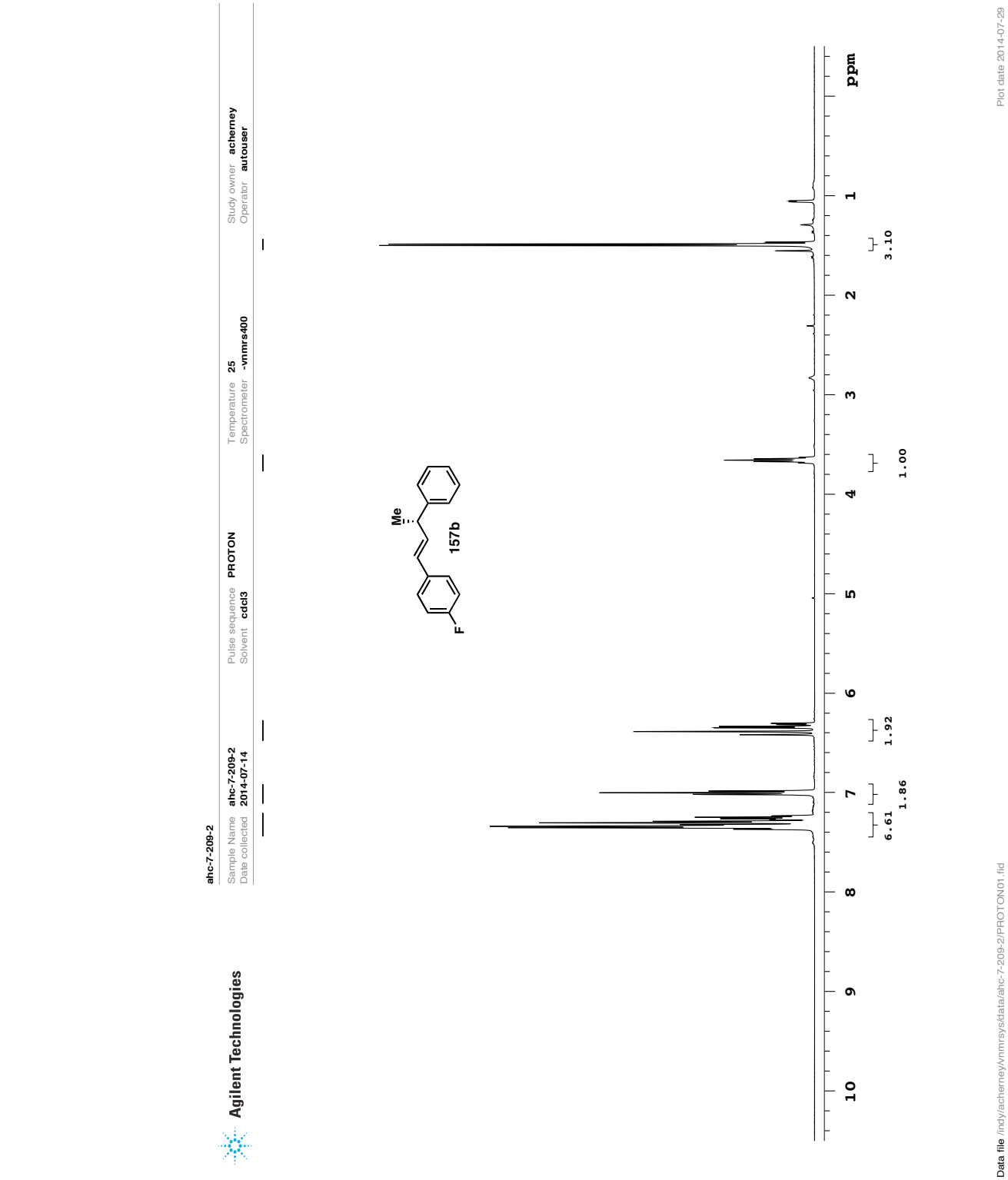

Agilent Technologies
ahc-7-223-8
Sample Name ahc-7-223-8
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
OH
MeO
163m
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-223-8/CARBON01.fid

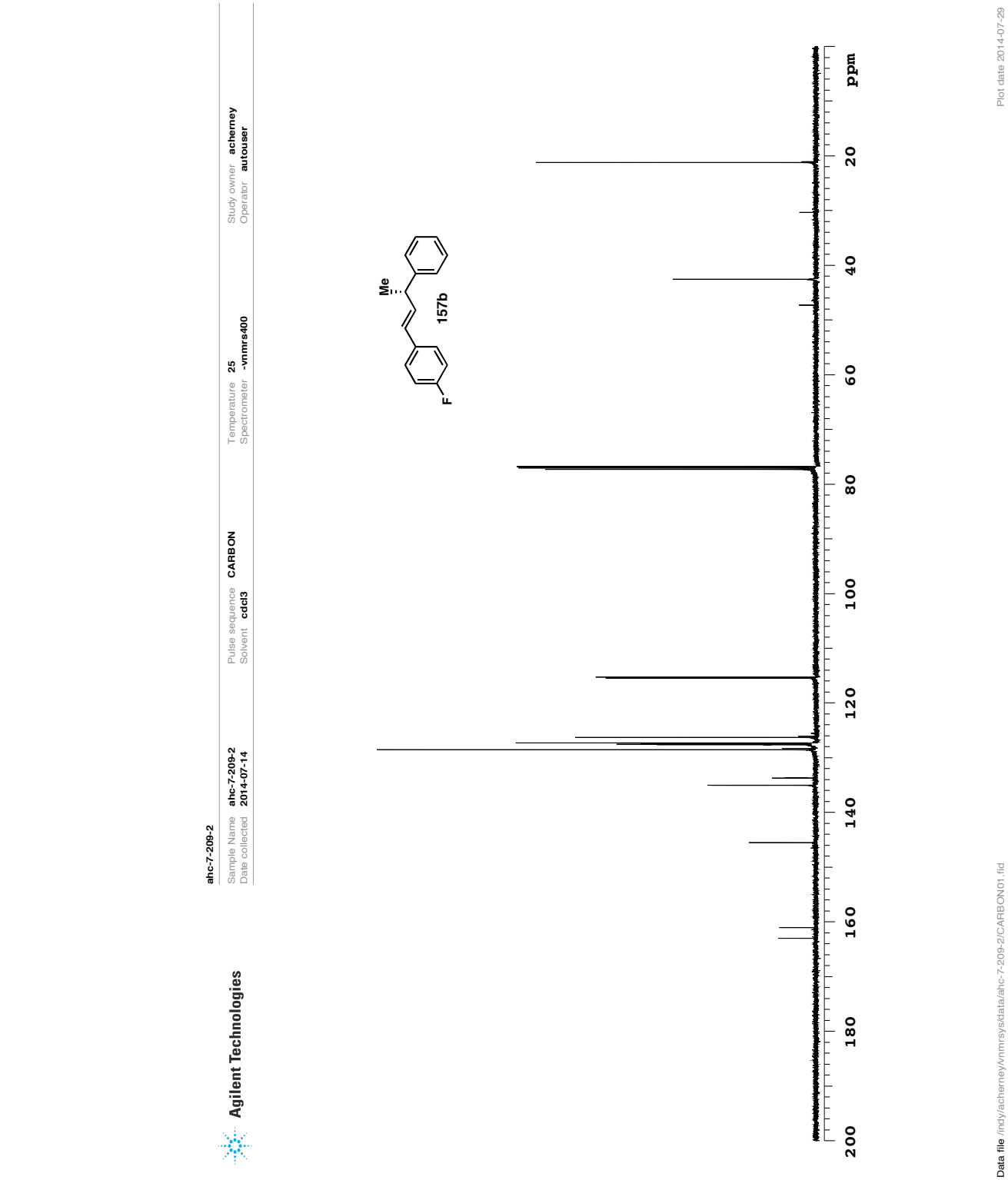

Agilent Technologies
ahc-7-271-4
Sample Name ahc-7-271-4
Date collected 2014-09-10
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Cl
MeO
163n
ppm
10
9
8
7
6
5
4
3
2
1
6.94
1.03
1.90
1.03
2.88
1.00
1.02
0.95
1.99
Plot date 2014-09-11
Data file /data/indy/achenney/vnmrsys/data/ahc-7-271-4/PROTON01.fid

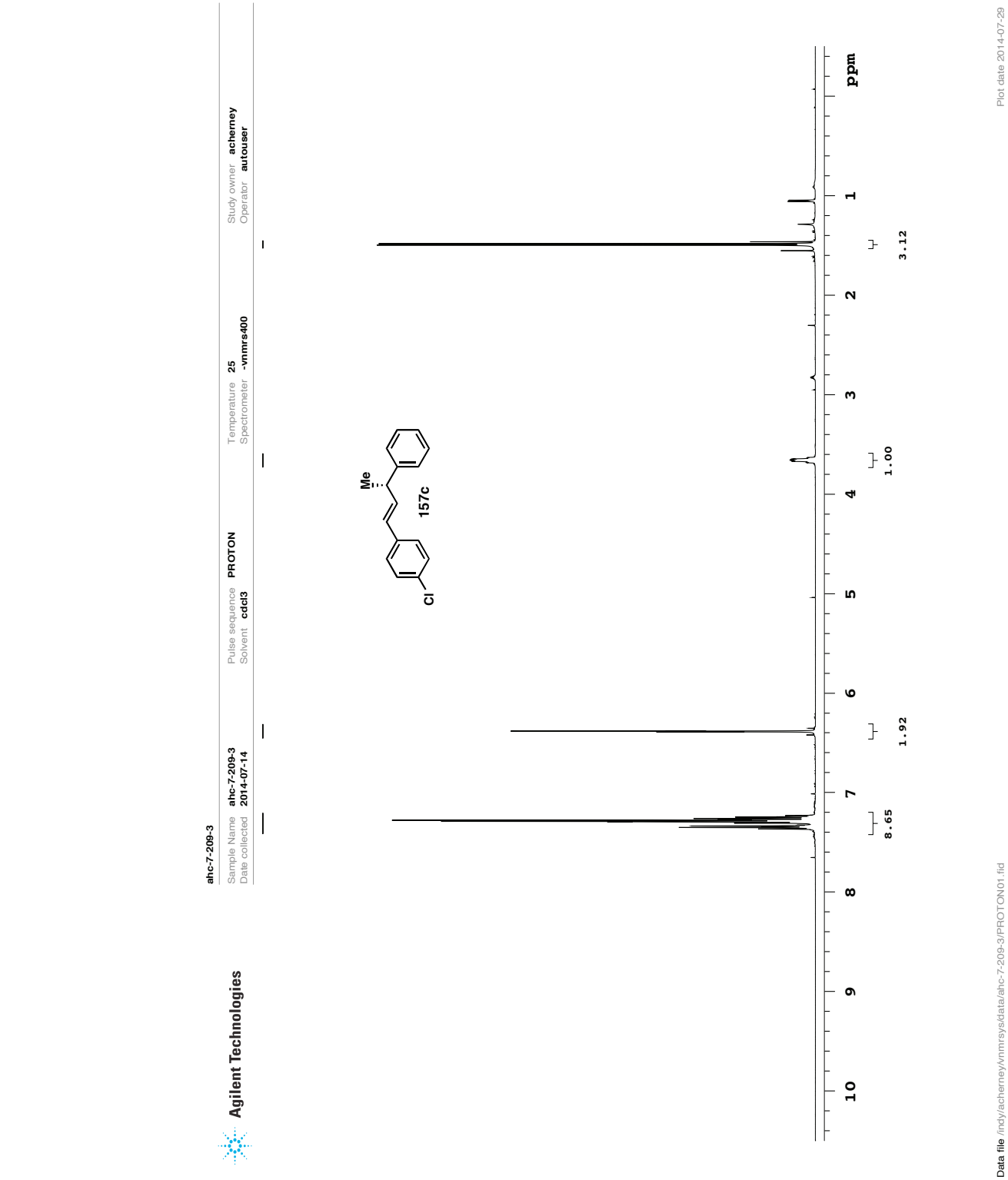

Agilent Technologies
ahc-7-271-4
Sample Name ahc-7-271-4
Date collected 2014-09-10
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Cl
MeO
163n
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-09-11
Data file /data/indy/achenney/vnmrsys/data/ahc-7-271-4/CARBON01.fid

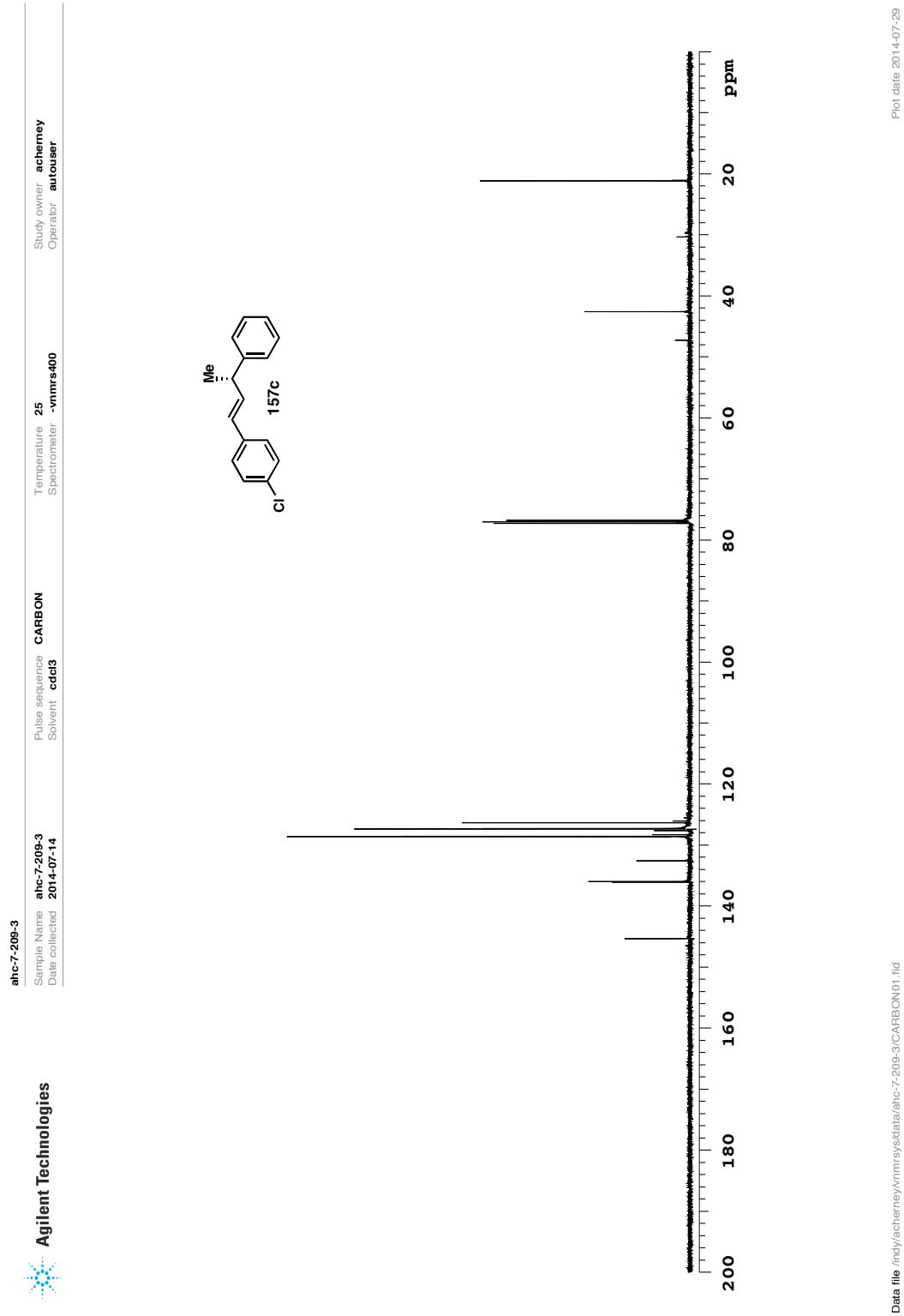

Agilent Technologies
ahc-7-209-7
Sample Name ahc-7-209-7
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157a
Me
ppm
10
9
8
7
6
5
4
3
2
1
6.81
1.97
1.98
1.04
3.00
3.26
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-7/PROTON01.fid

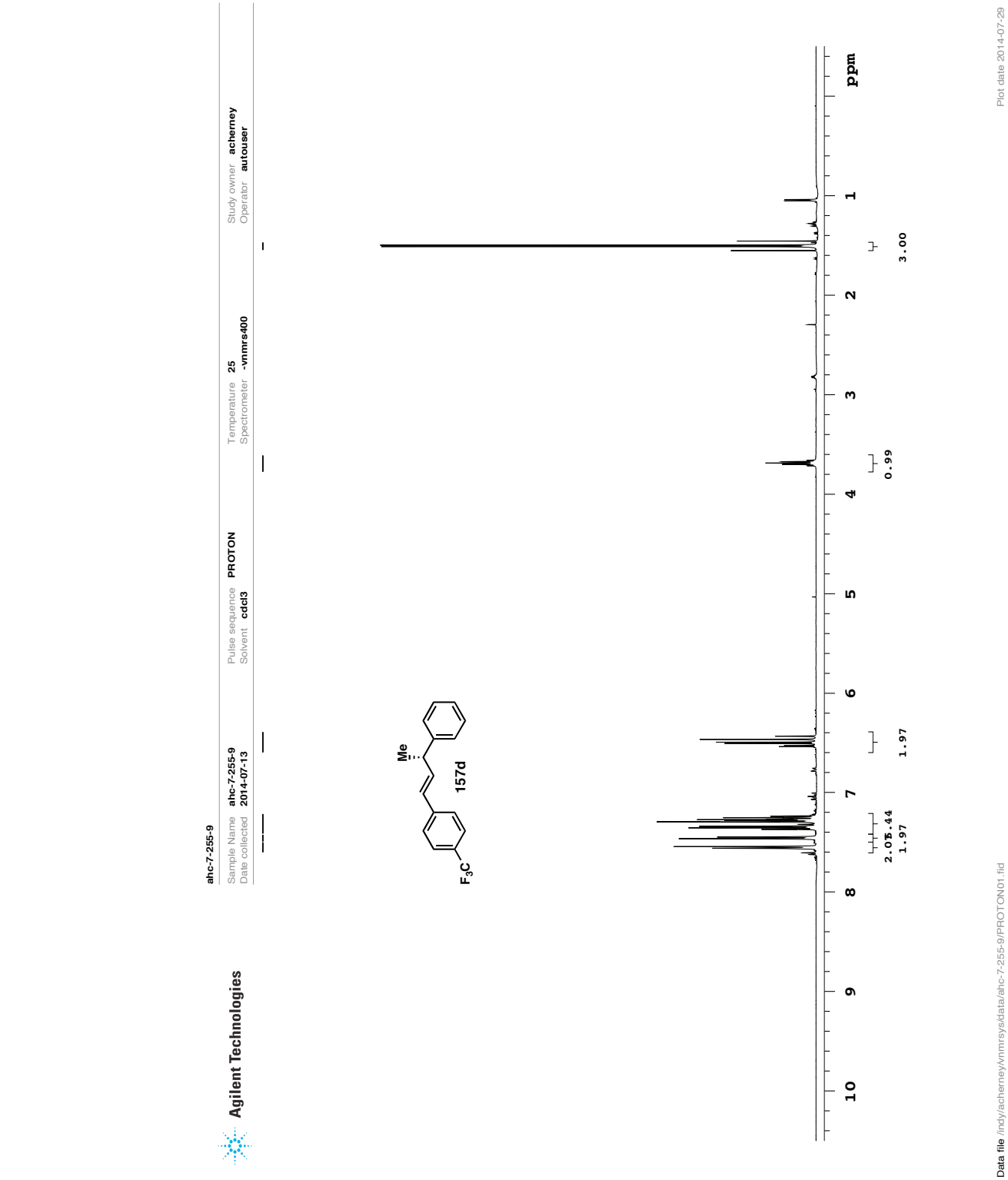

Agilent Technologies
ahc-7-209-7
Sample Name ahc-7-209-7
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157a
Me
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-7/CARBON01.fid

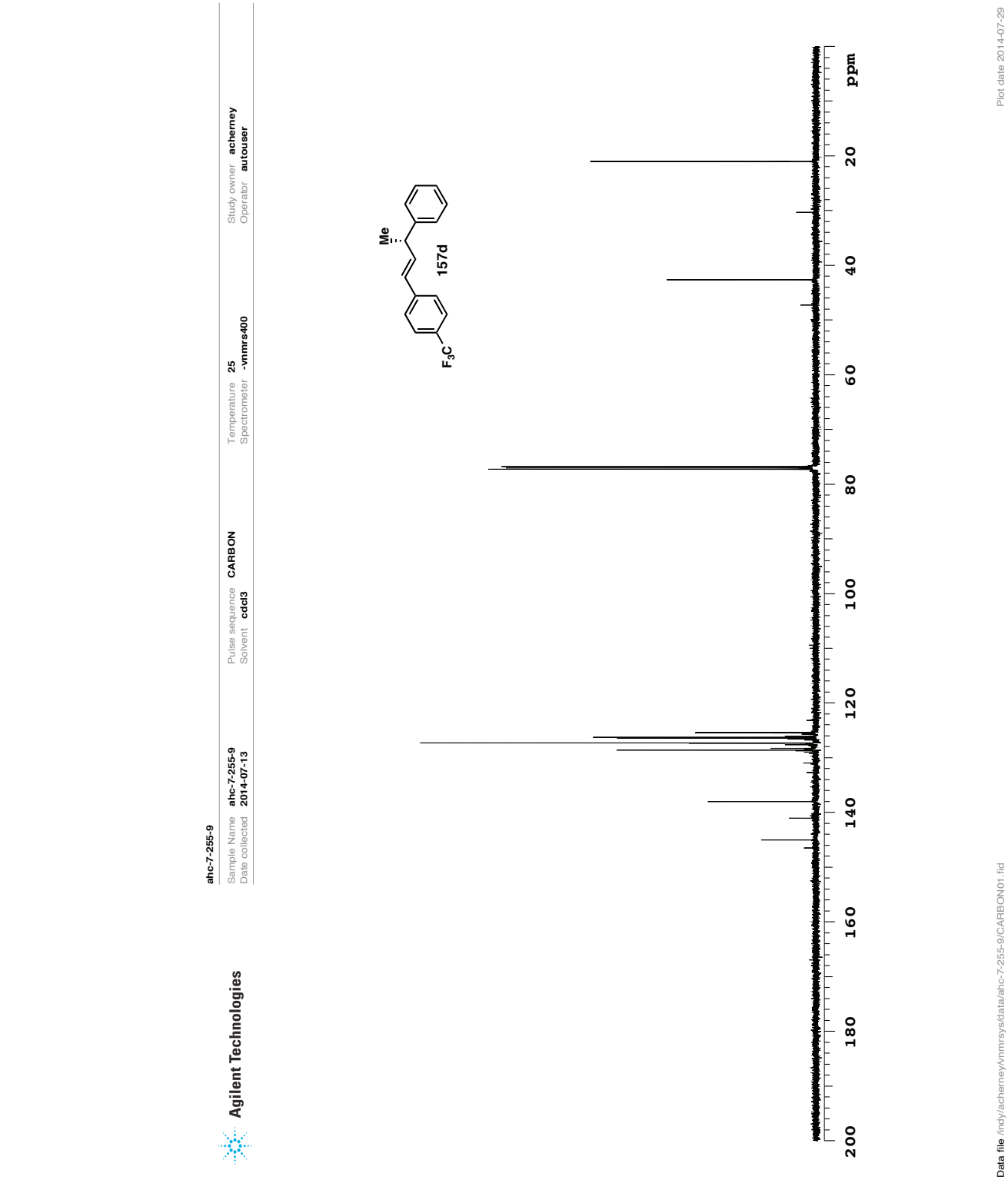

ahc-7-209-2
Sample Name ahc-7-209-2
Date collected 2014-07-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
157b
F
ppm
10
9
8
7
6
5
4
3
2
1
6.61
1.86
1.92
1.00
3.10
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-2/PROTON01.fid

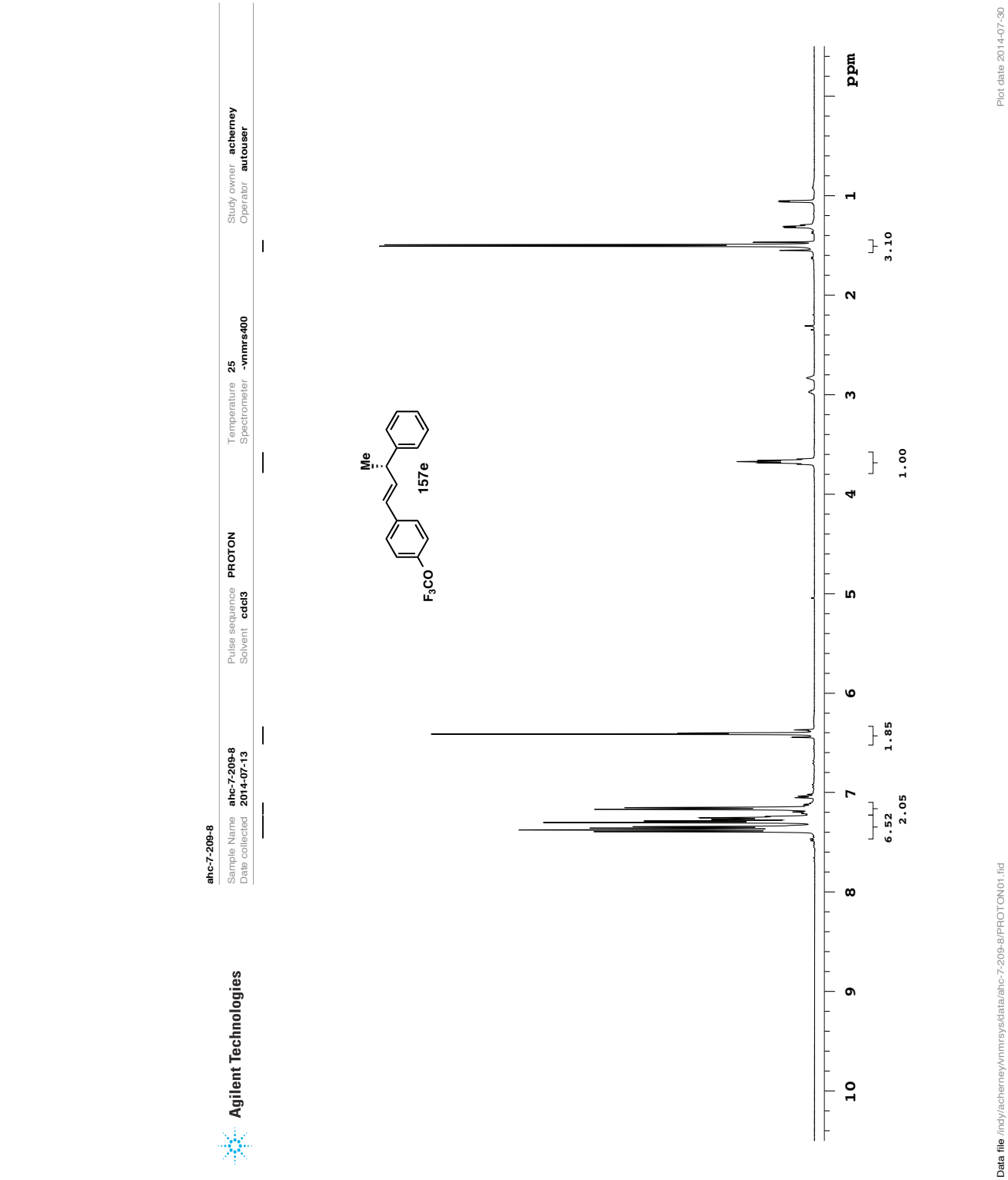

Agilent Technologies
ahc-7-209-2
Sample Name ahc-7-209-2
Date collected 2014-07-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157b
F
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-2/CARBON01.fid

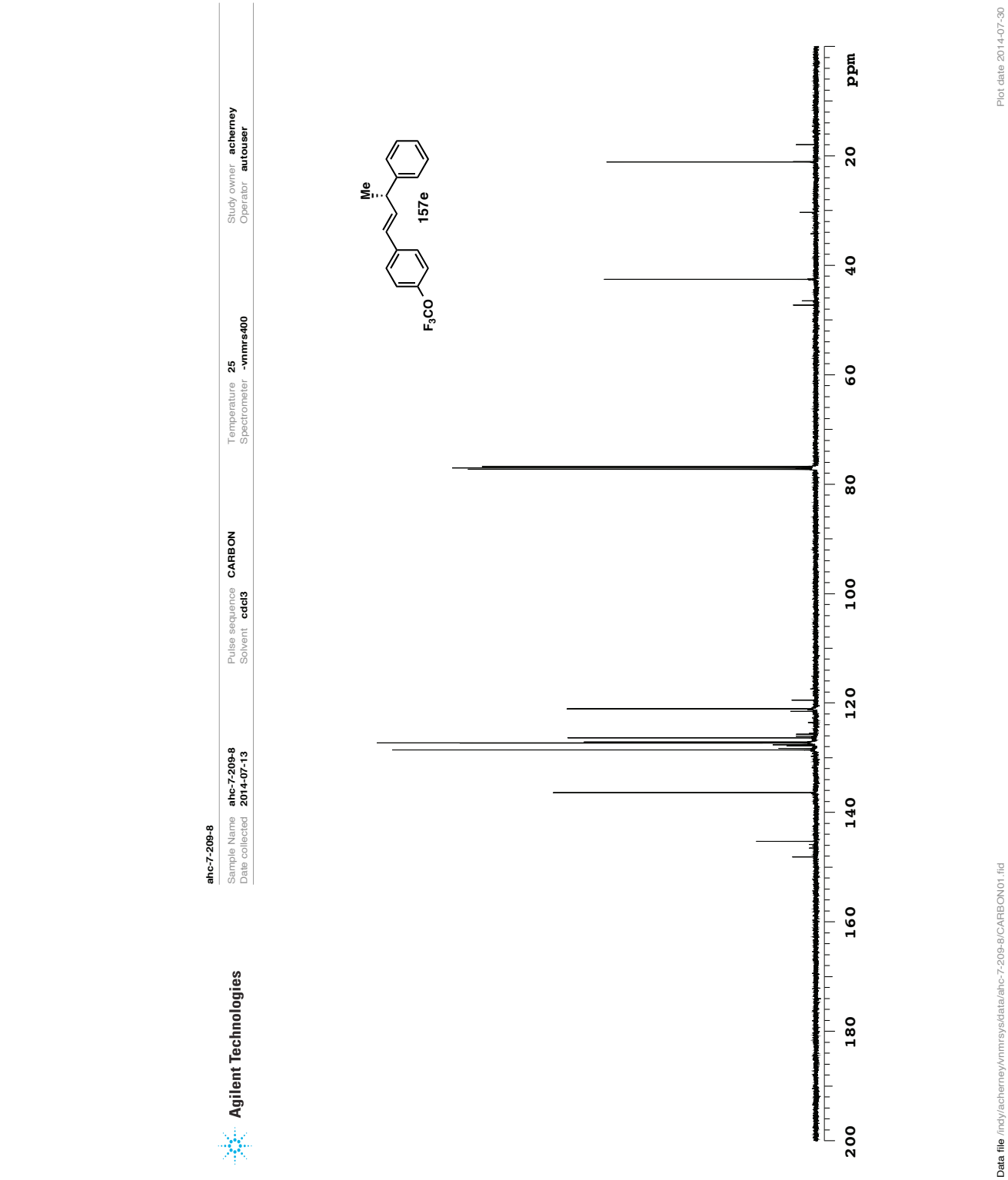

Agilent Technologies
ahc-7-209-3
Sample Name ahc-7-209-3
Date collected 2014-07-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Cl
157c
ppm
10
9
8
7
6
5
4
3
2
1
8.65
1.92
1.00
3.12
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-3/PROTON01.fid

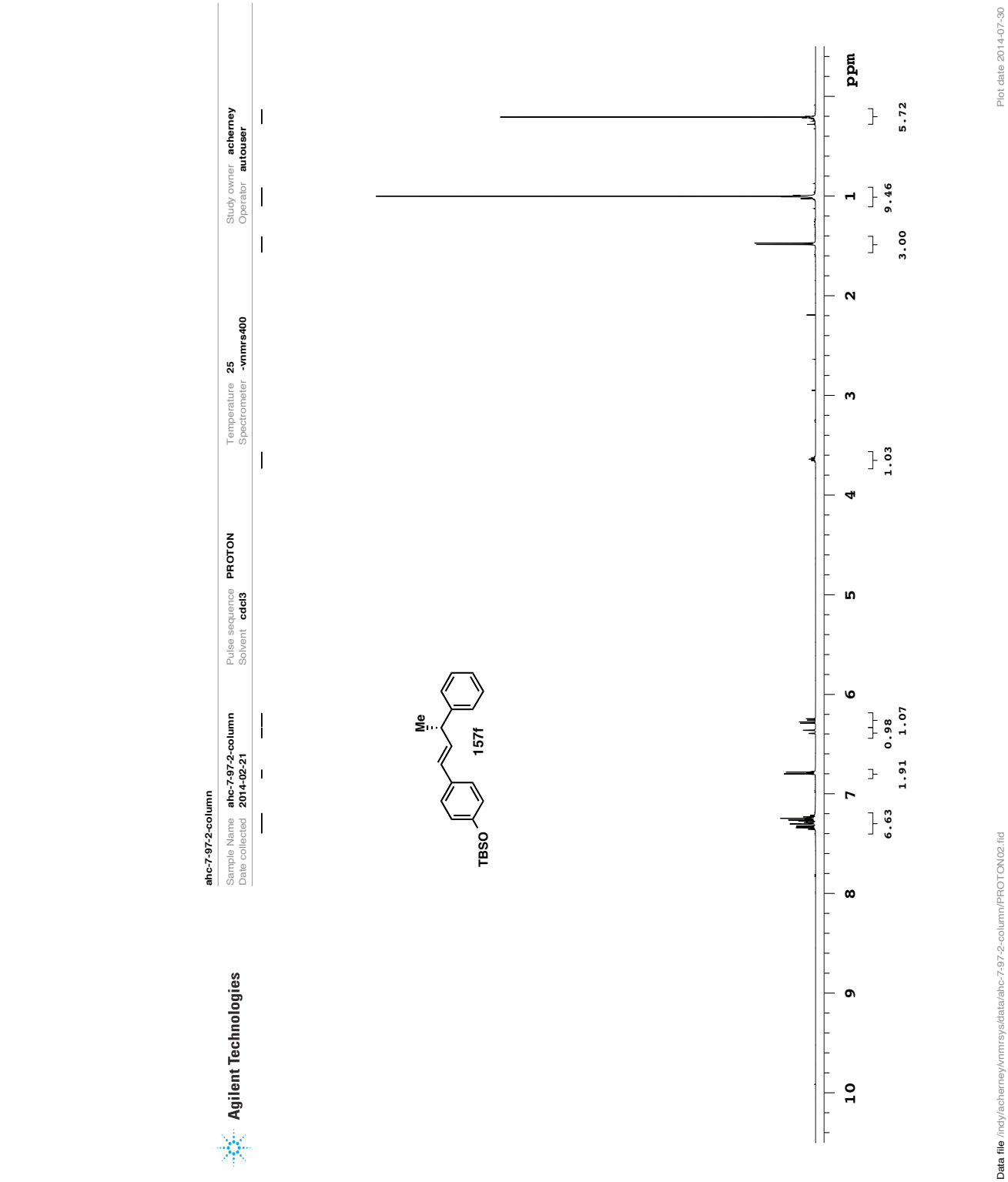

ahc-7-209-3
Sample Name ahc-7-209-3
Date collected 2014-07-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
157c
Cl
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-209-3/CARBON01.fid

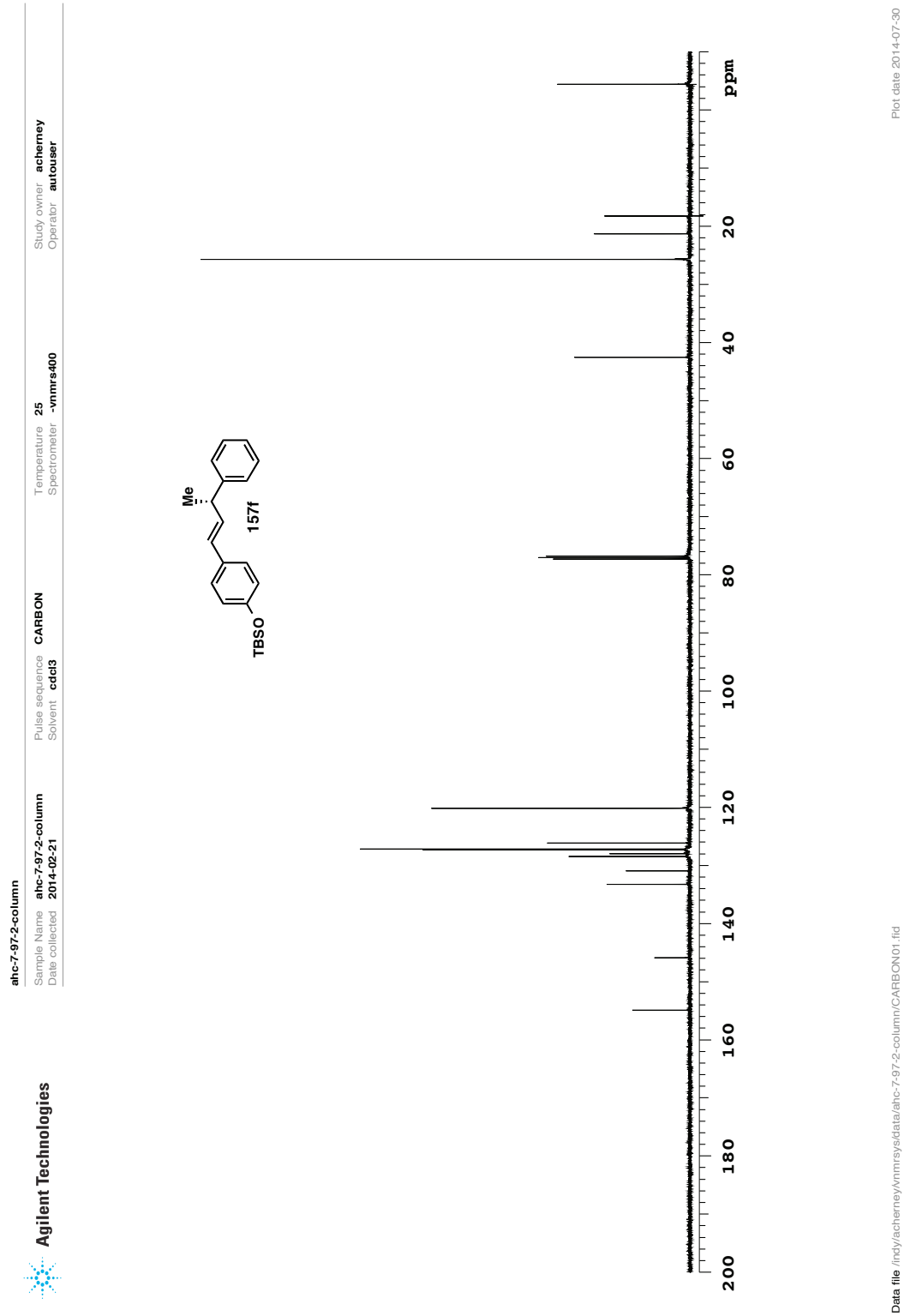

ahc-7-255-9
Sample Name ahc-7-255-9
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157d
F3C
10 9 8 7 6 5 4 3 2 1 ppm
2.05
5.44
1.97
1.97
0.99
3.00
Agilent Technologies
Data file /indy/achenney/vnmrsys/data/ahc-7-255-9/PROTON01.fid
Plot date 2014-07-29

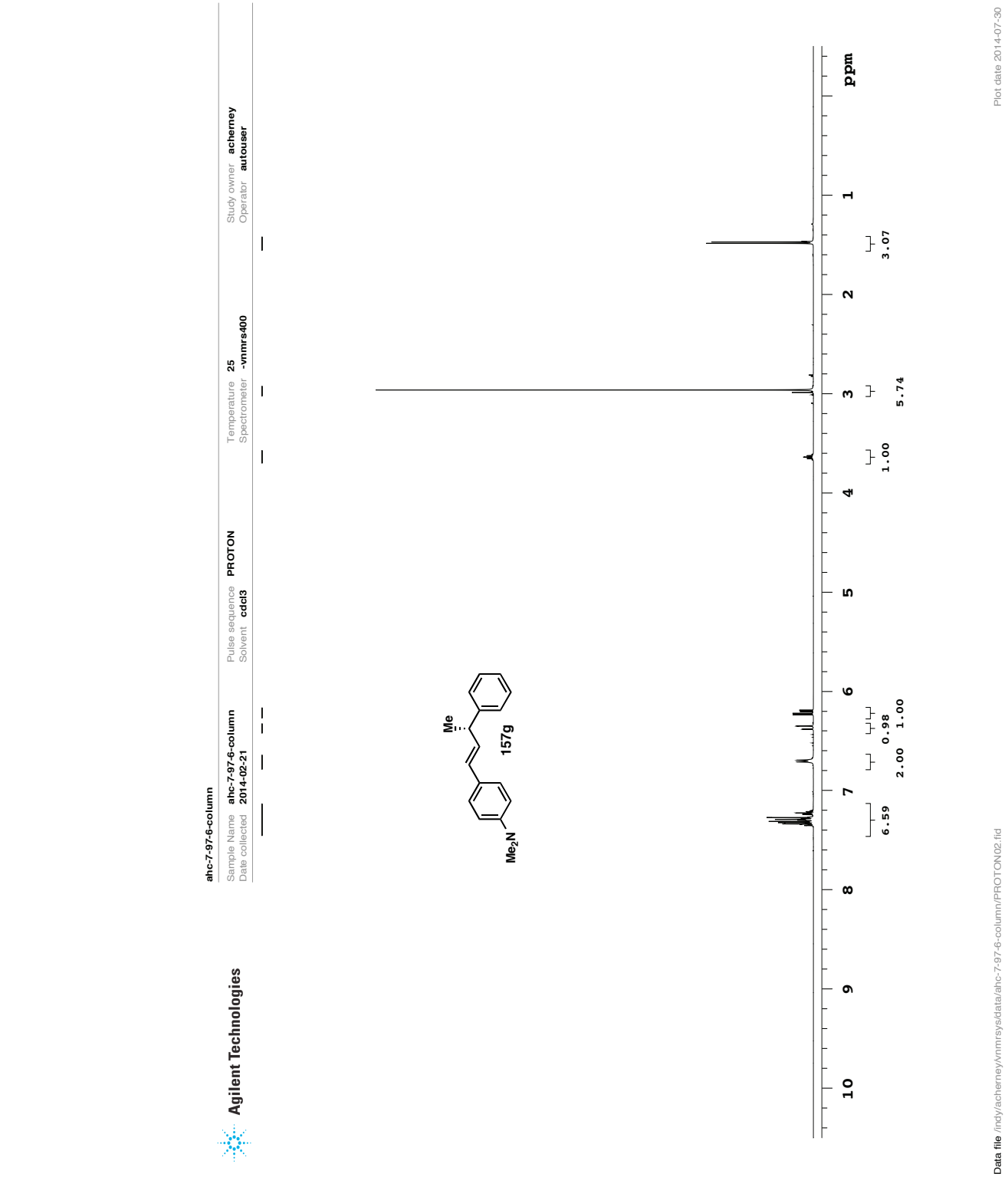

Agilent Technologies
ahc-7-255-9
Sample Name ahc-7-255-9
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157d
F3C
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-29
Data file /indy/achenney/vnmrsys/data/ahc-7-255-9/CARBON01.fid

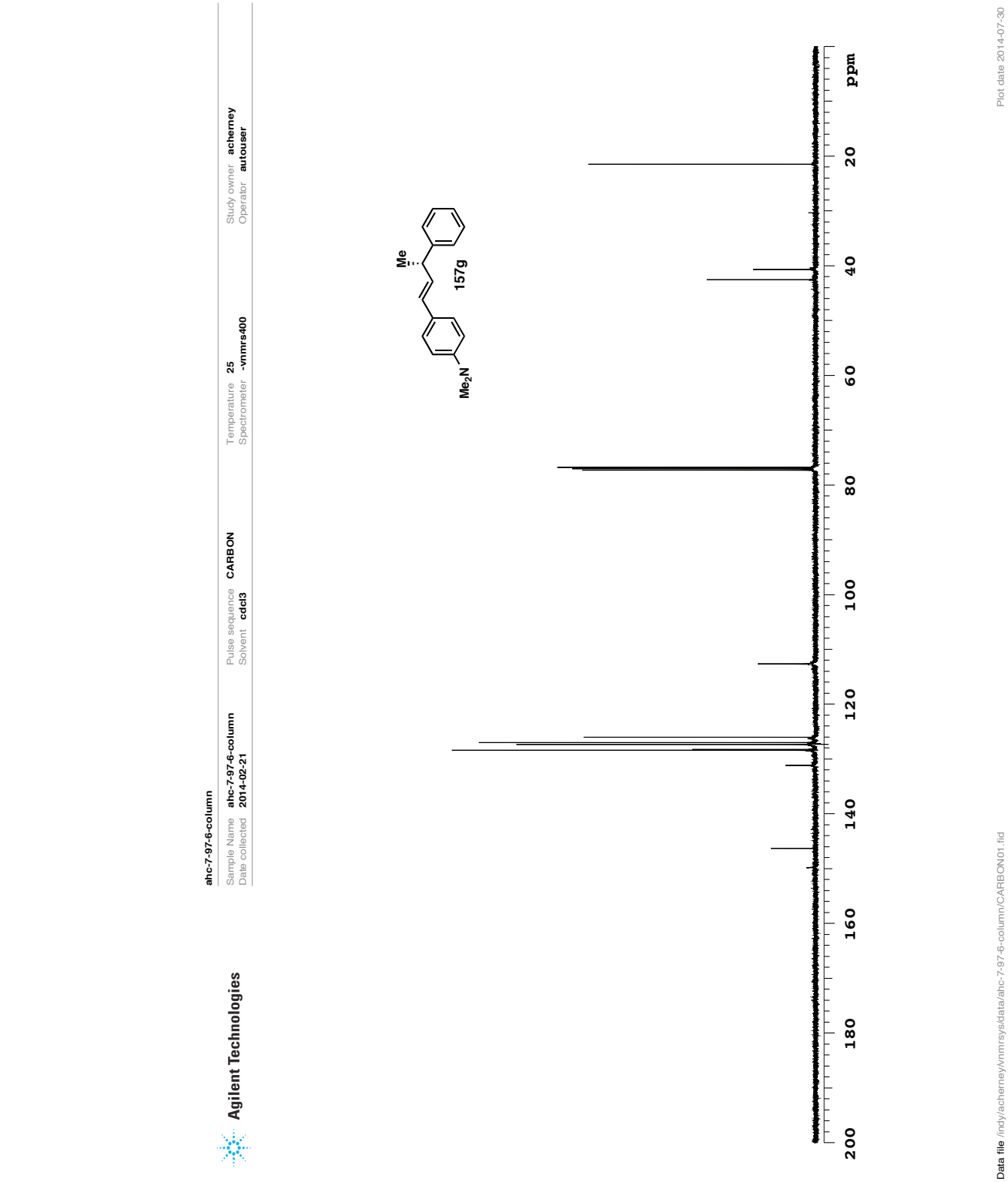

Agilent Technologies
ahc-7-209-8
Sample Name ahc-7-209-8
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157e
F3CO
ppm
10
9
8
7
6
5
4
3
2
1
6.52
2.05
1.85
1.00
3.10
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-8/PROTON01.fid

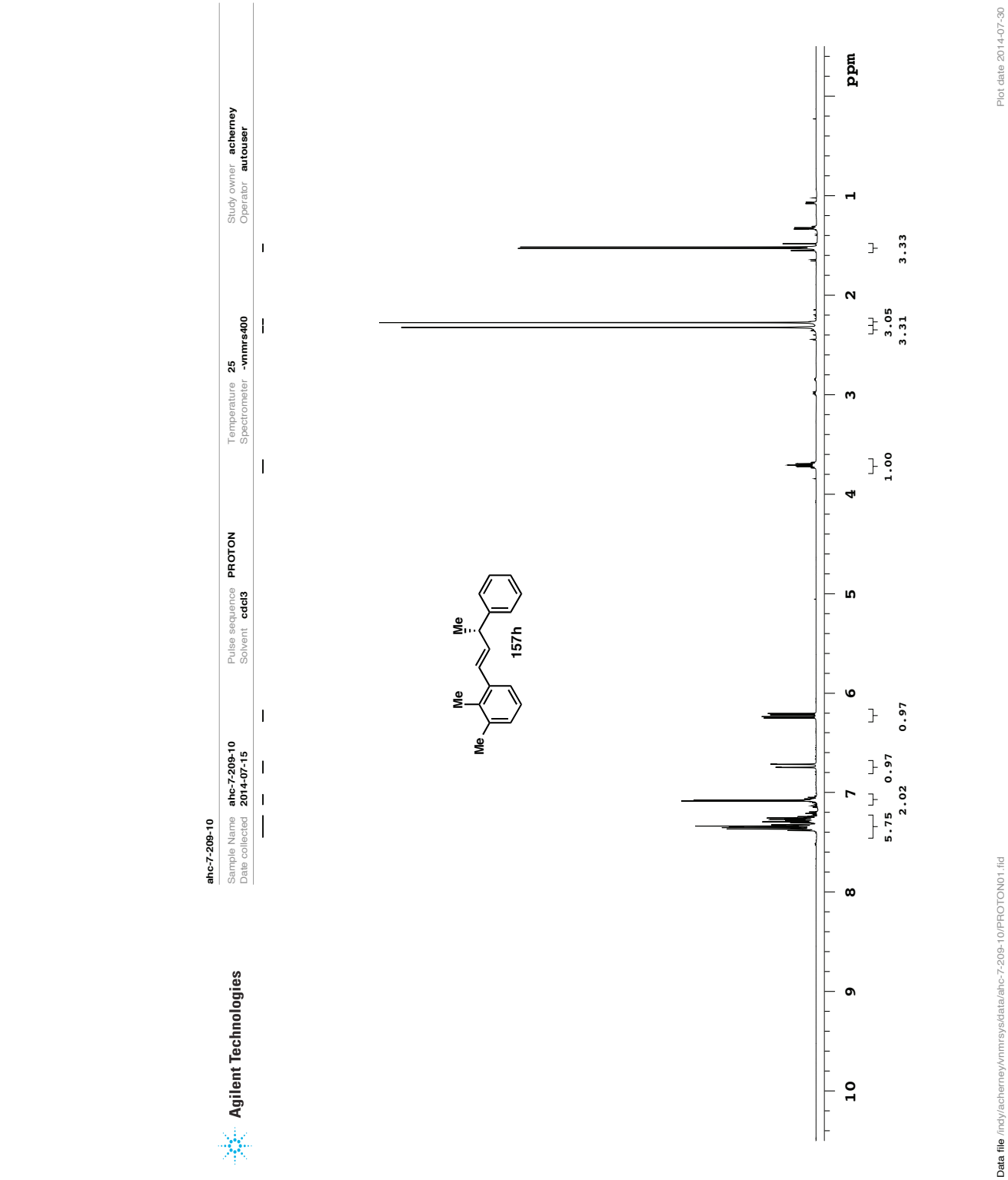

Agilent Technologies
ahc-7-209-8
Sample Name ahc-7-209-8
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157e
F3CO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-8/CARBON01.fid

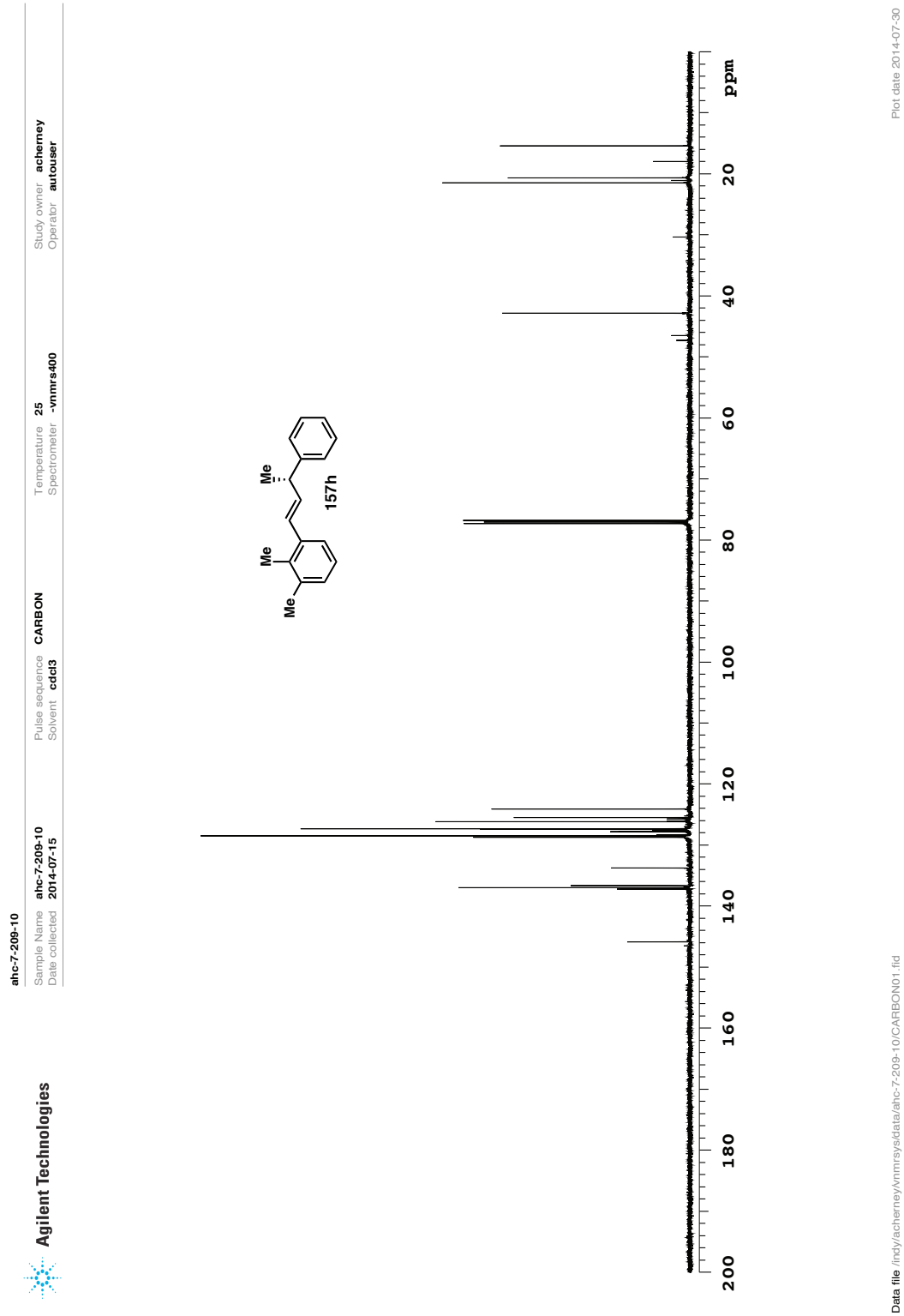

Agilent Technologies
ahc-7-97-2-column
Sample Name ahc-7-97-2-column
Date collected 2014-02-21
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
TBSO
157f
ppm
10
9
8
7
6
5
4
3
2
1
6.63
0.98
1.91
1.07
1.03
3.00
9.46
5.72
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-97-2-column/PROTON02.fid

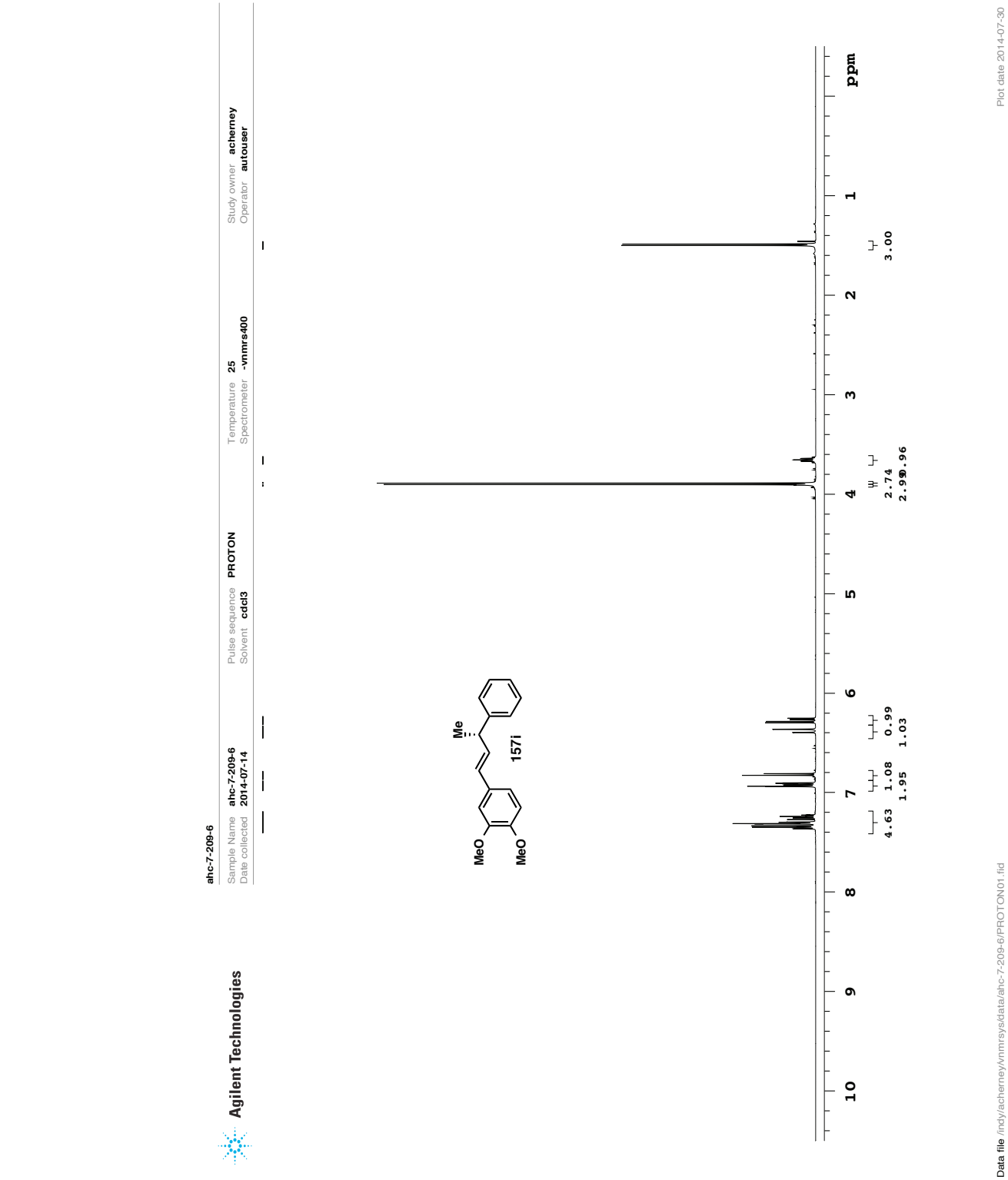

Agilent Technologies
ahc-7-97-2-column
Sample Name ahc-7-97-2-column
Date collected 2014-02-21
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
TBSO
157f
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/achenney/vnmrsys/data/ahc-7-97-2-column/CARBON01.fid
Plot date 2014-07-30

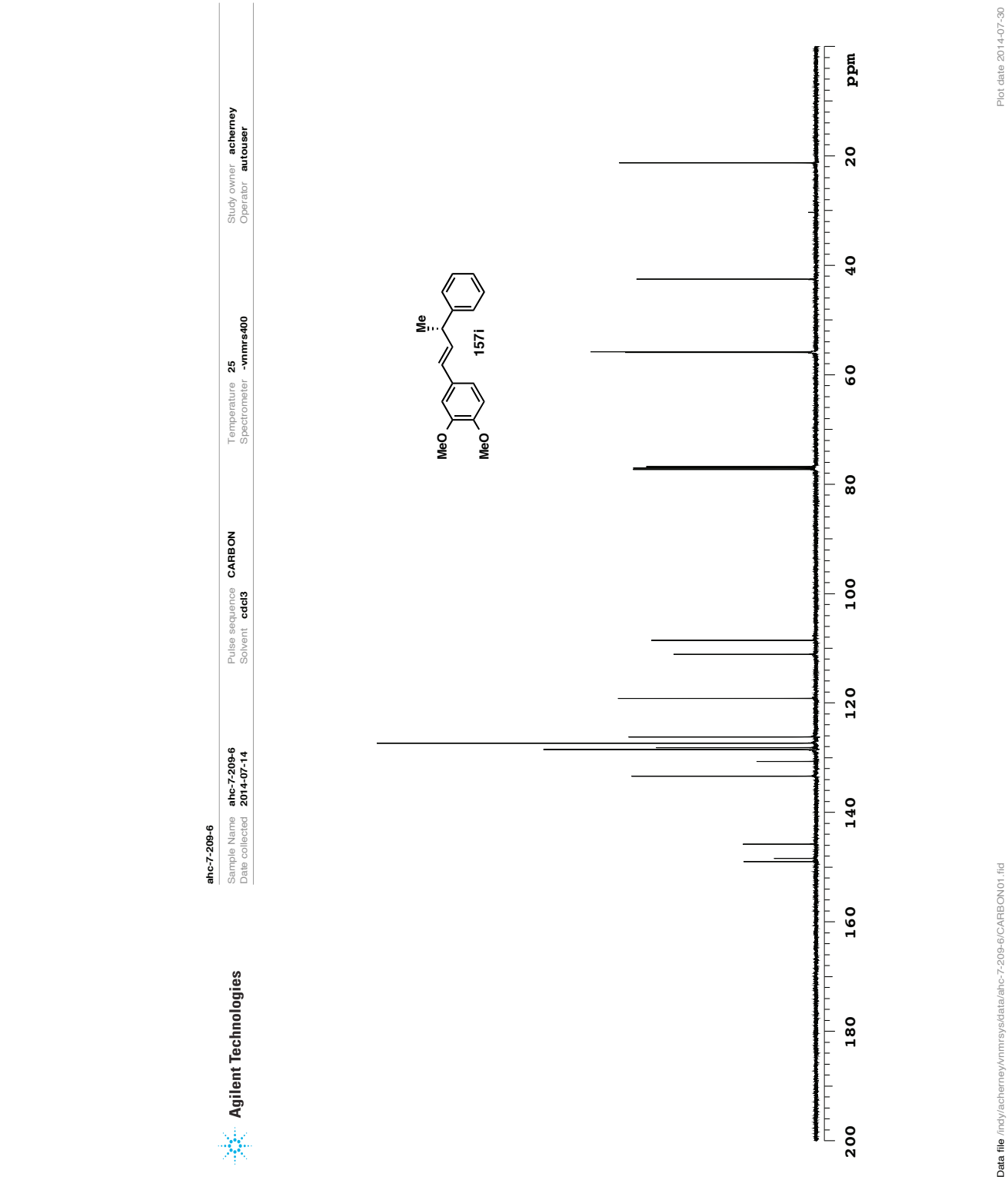

Agilent Technologies
ahc-7-97-6-column
Sample Name ahc-7-97-6-column
Date collected 2014-02-21
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157g
Me2N
ppm
10
9
8
7
6
5
4
3
2
1
6.59
2.00
0.98
1.00
1.00
5.74
3.07
Data file /indy/achenney/vnmrsys/data/ahc-7-97-6-column/PROTON02.fid
Plot date 2014-07-30

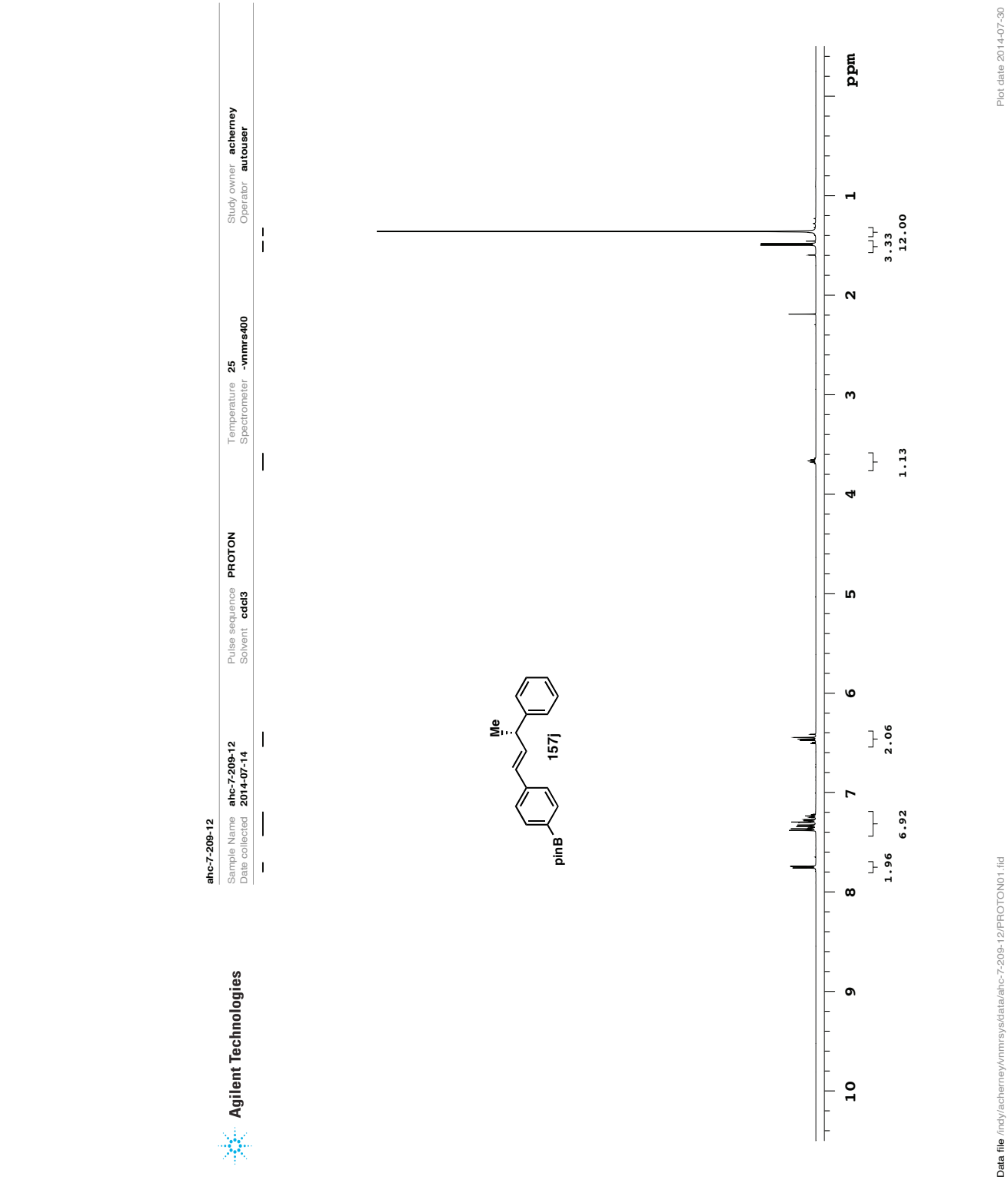

ahc-7-97-6-column
Sample Name ahc-7-97-6-column
Date collected 2014-02-21
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
157g
Me2N
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-97-6-column/CARBON01.fid

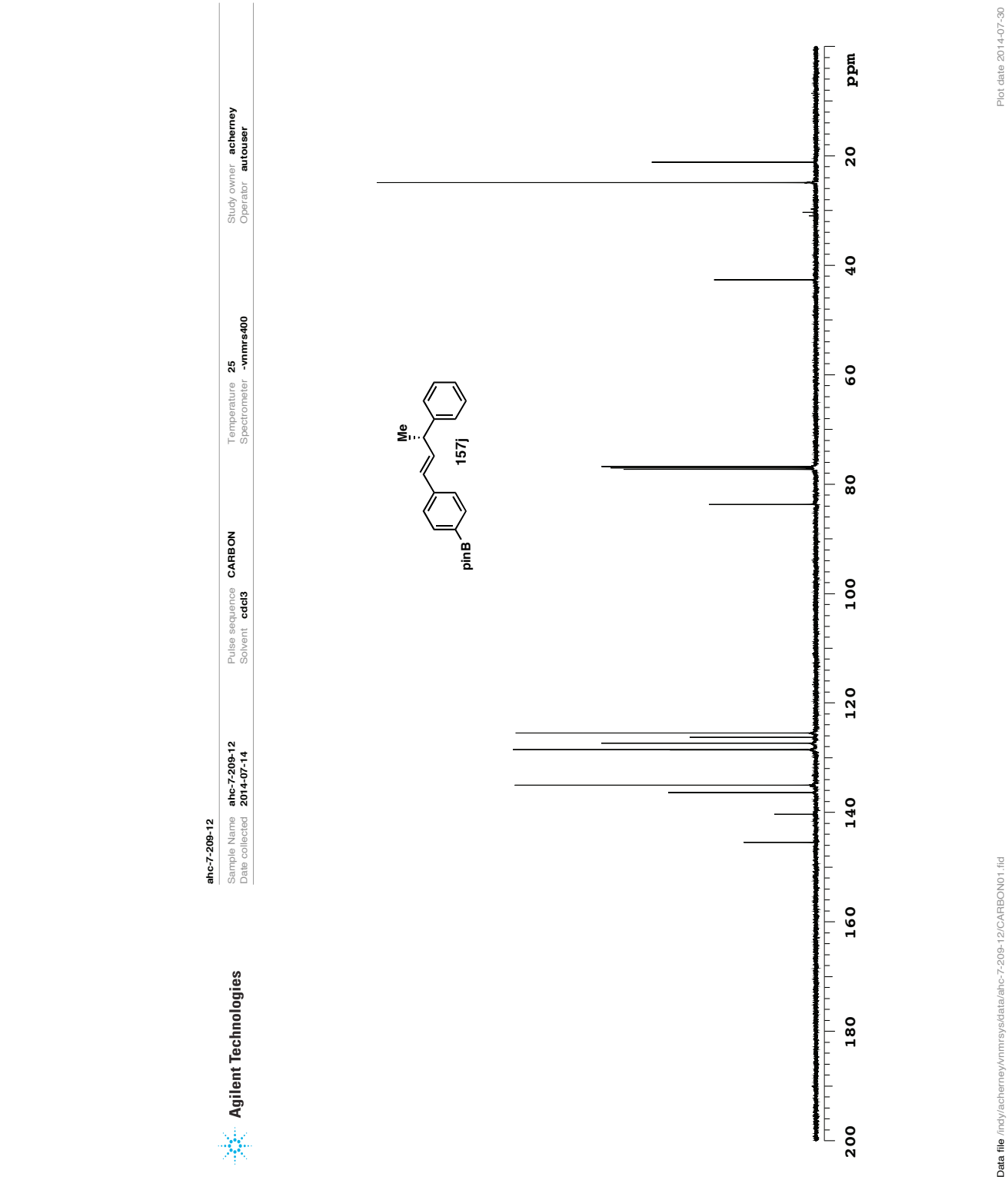

Agilent Technologies
ahc-7-209-10
Sample Name ahc-7-209-10
Date collected 2014-07-15
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
Me
157h
ppm
10
9
8
7
6
5
4
3
2
1
5.75
0.97
2.02
0.97
1.00
3.05
3.31
3.33
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-10/PROTON01.fid

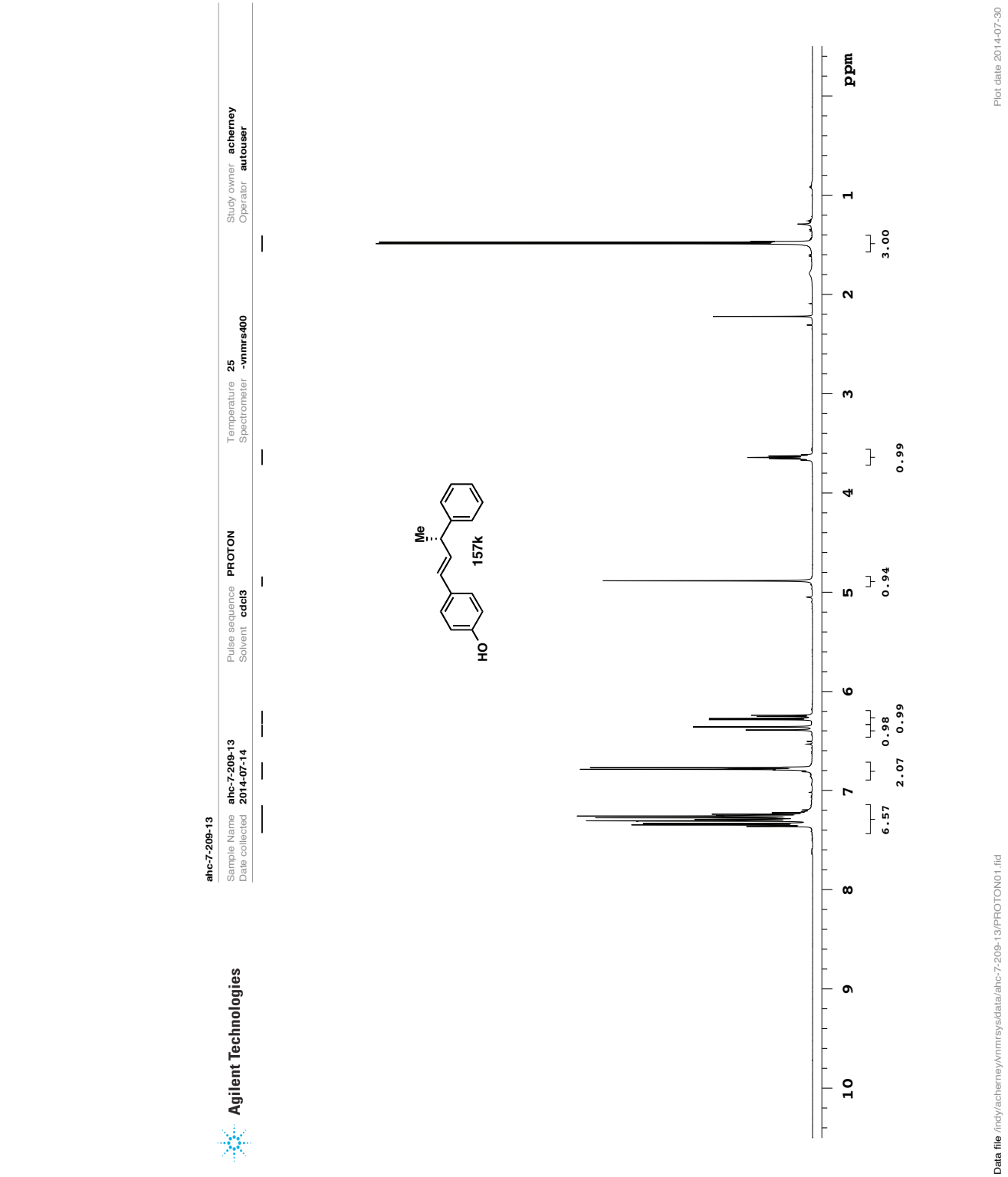

Agilent Technologies
ahc-7-209-10
Sample Name ahc-7-209-10
Date collected 2014-07-15
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
Me
Me
157h
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-10/CARBON01.fid

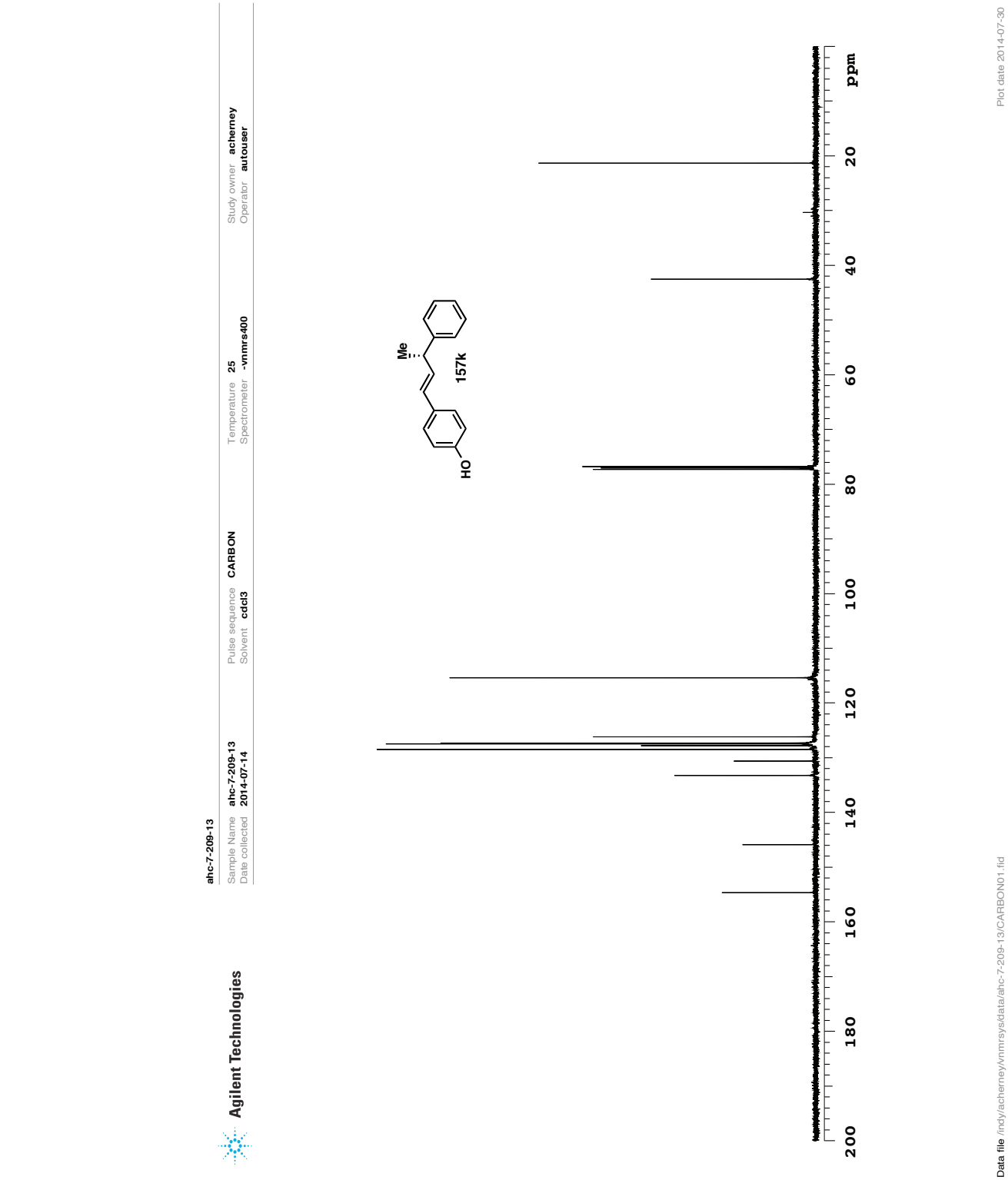

Agilent Technologies
ahc-7-209-6
Sample Name ahc-7-209-6
Date collected 2014-07-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
MeO
MeO
157i
4.63
1.08
1.95
0.99
1.03
2.74
2.99
0.96
3.00
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-6/PROTON01.fid

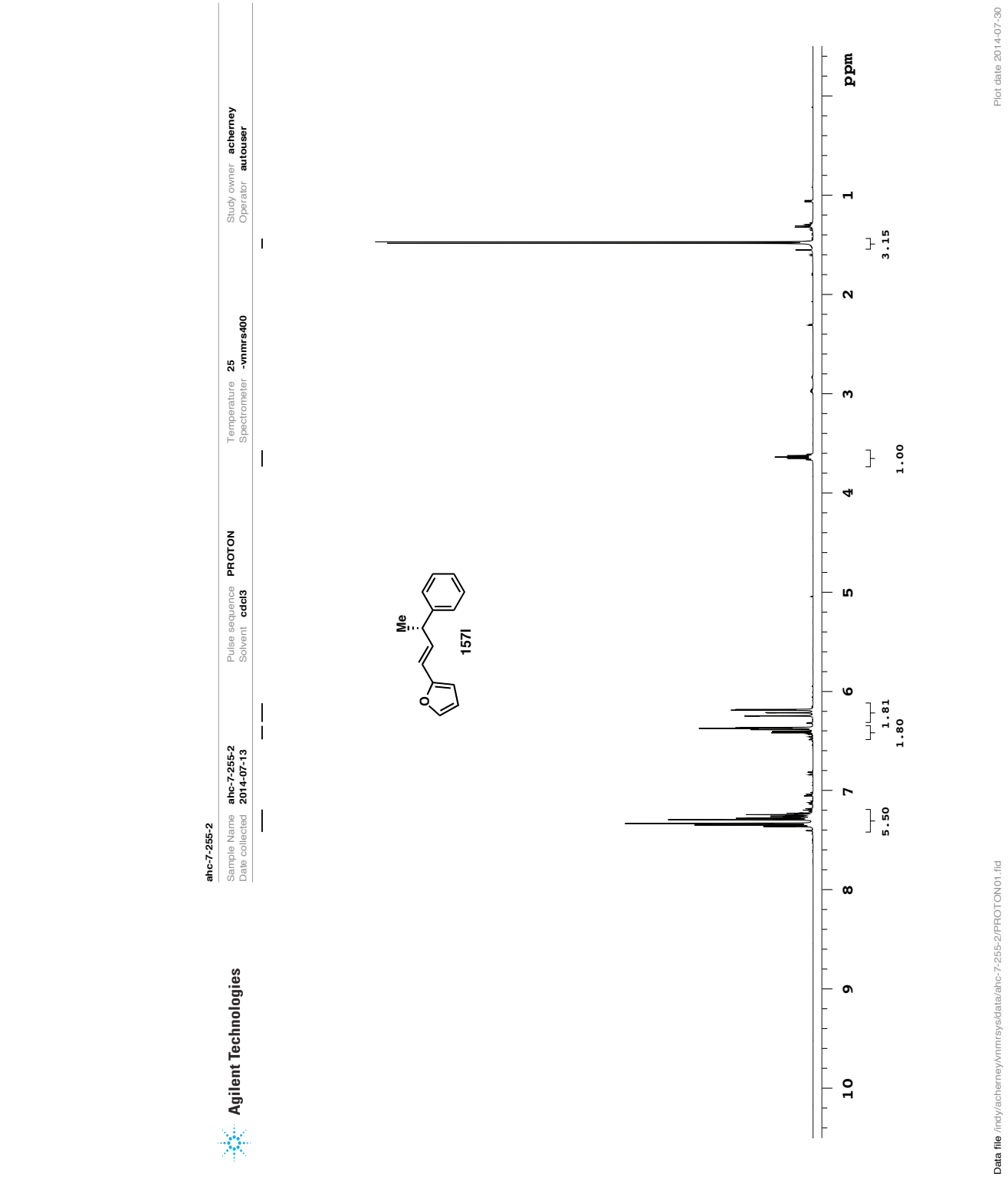

Agilent Technologies
ahc-7-209-6
Sample Name ahc-7-209-6
Date collected 2014-07-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
MeO
MeO
157i
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-6/CARBON01.fid

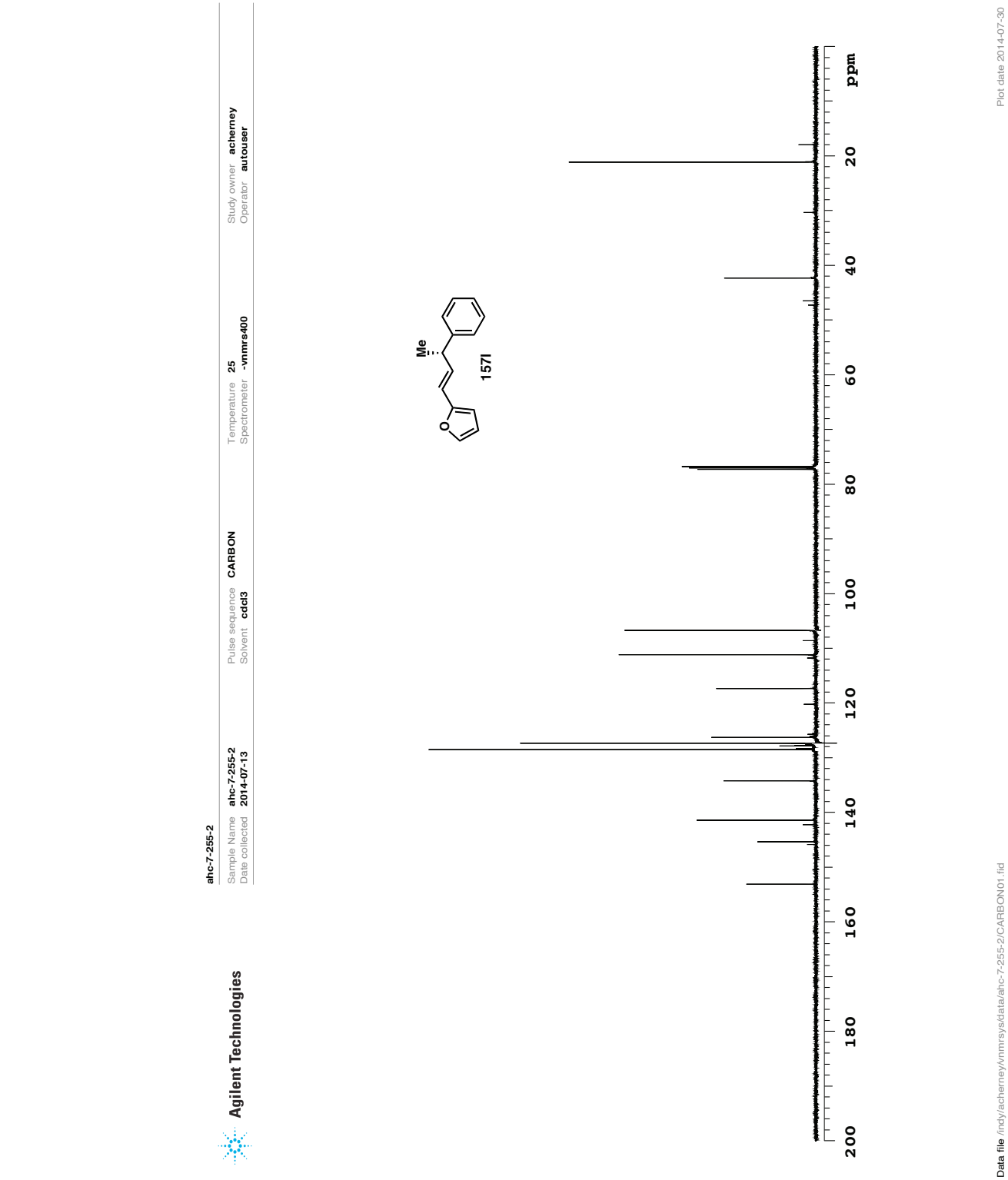

Agilent Technologies
ahc-7-209-12
Sample Name ahc-7-209-12
Date collected 2014-07-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
pinB
157j
ppm
1.96
6.92
2.06
1.13
3.33
12.00
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-12/PROTON01.fid

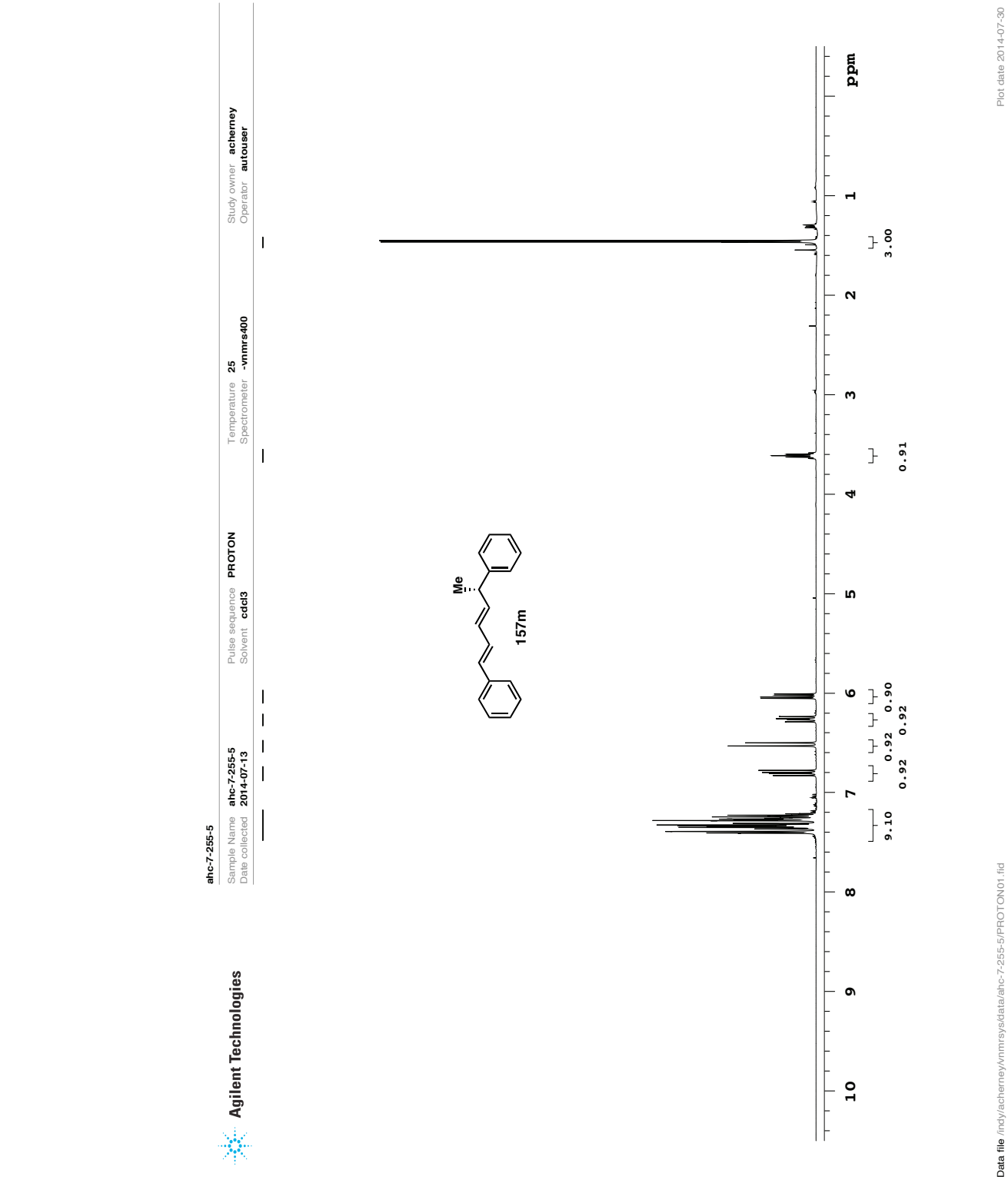

Agilent Technologies
ahc-7-209-12
Sample Name ahc-7-209-12
Date collected 2014-07-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157j
pinB
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-12/CARBON01.fid

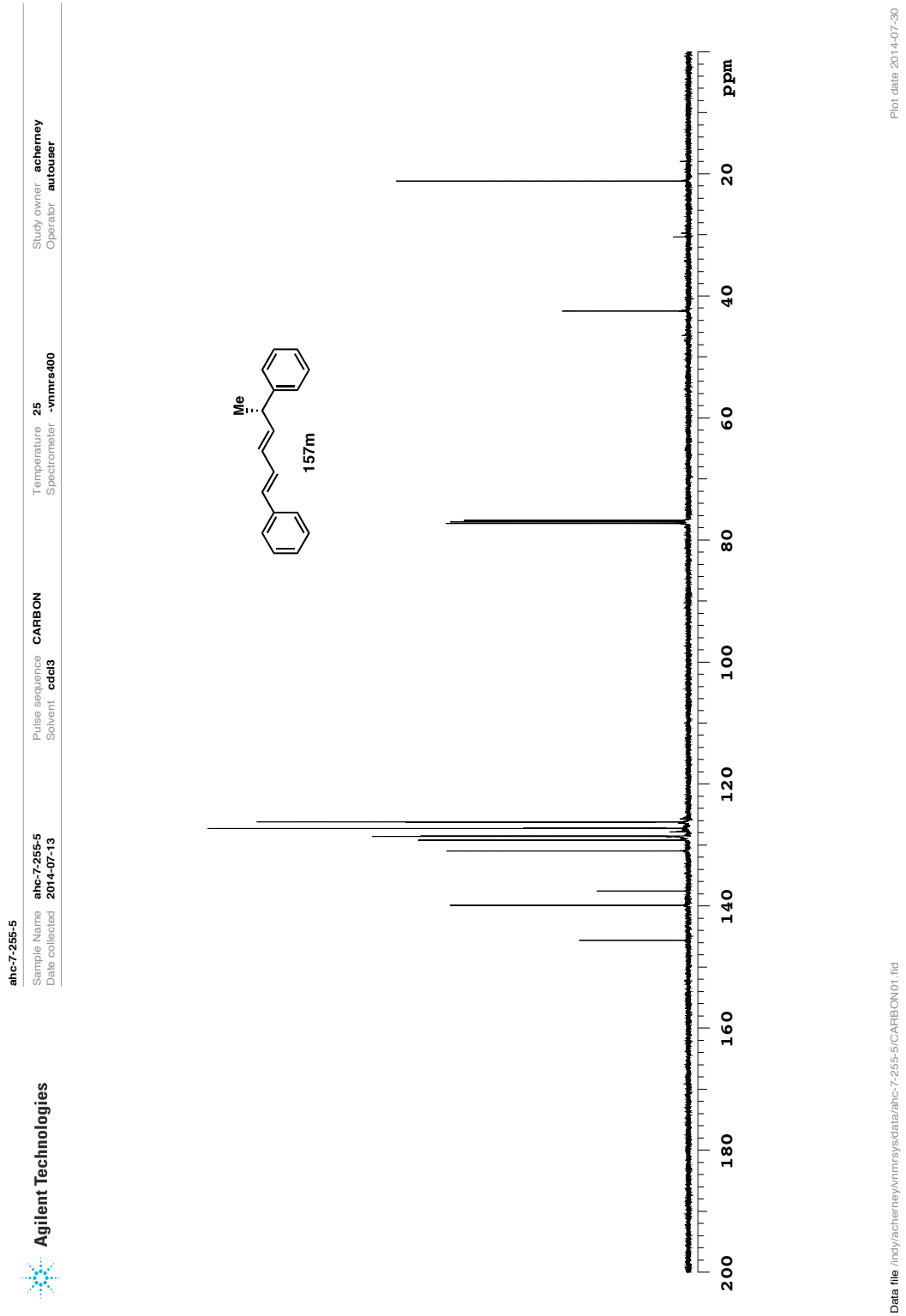

ahc-7-209-13
Sample Name ahc-7-209-13
Date collected 2014-07-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
HO
157k
ppm
10
9
8
7
6
5
4
3
2
1
6.57
2.07
0.98
0.99
0.94
0.99
3.00
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-13/PROTON01.fid

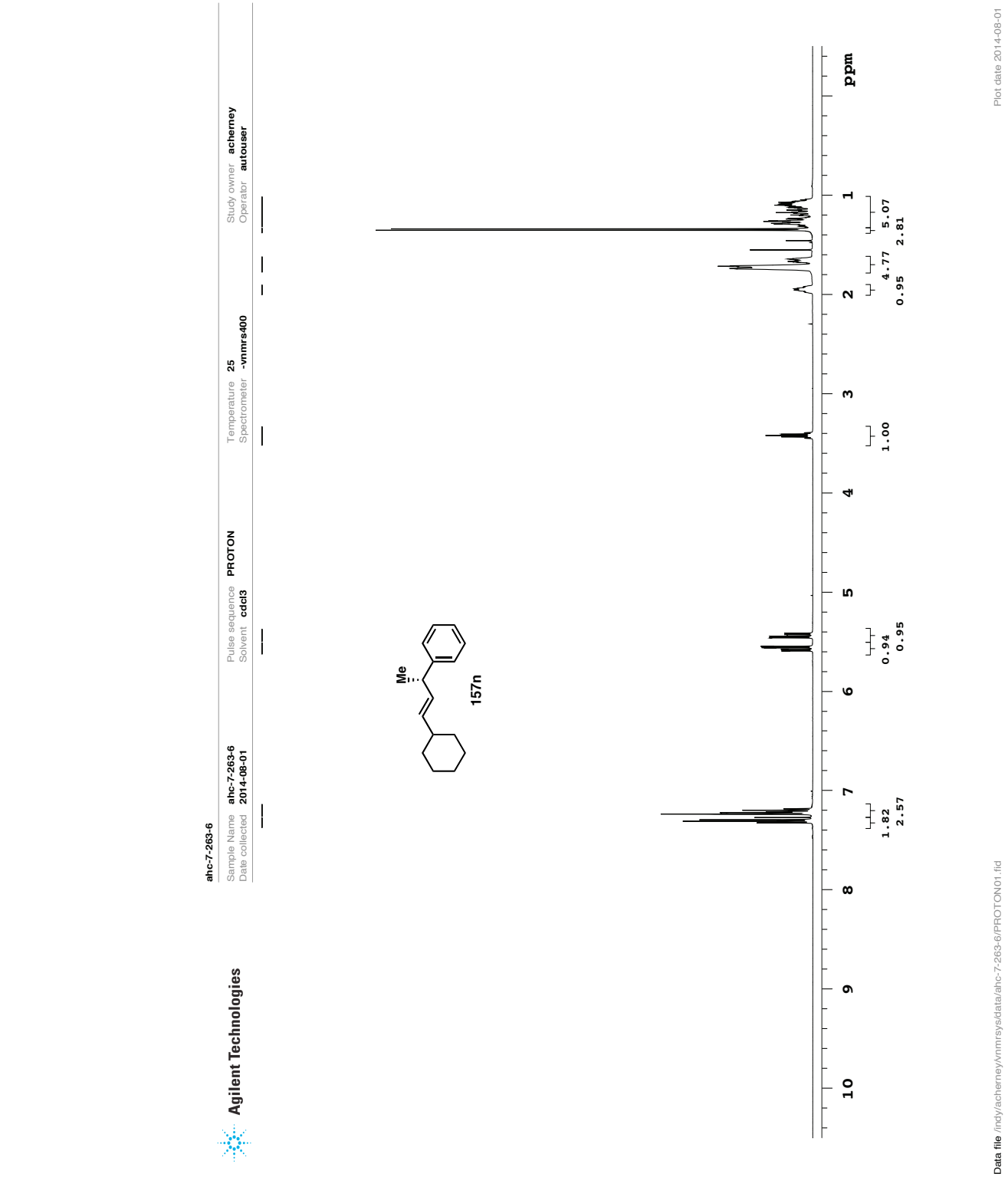

Agilent Technologies
ahc-7-209-13
Sample Name ahc-7-209-13
Date collected 2014-07-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157k
HO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-209-13/CARBON01.fid

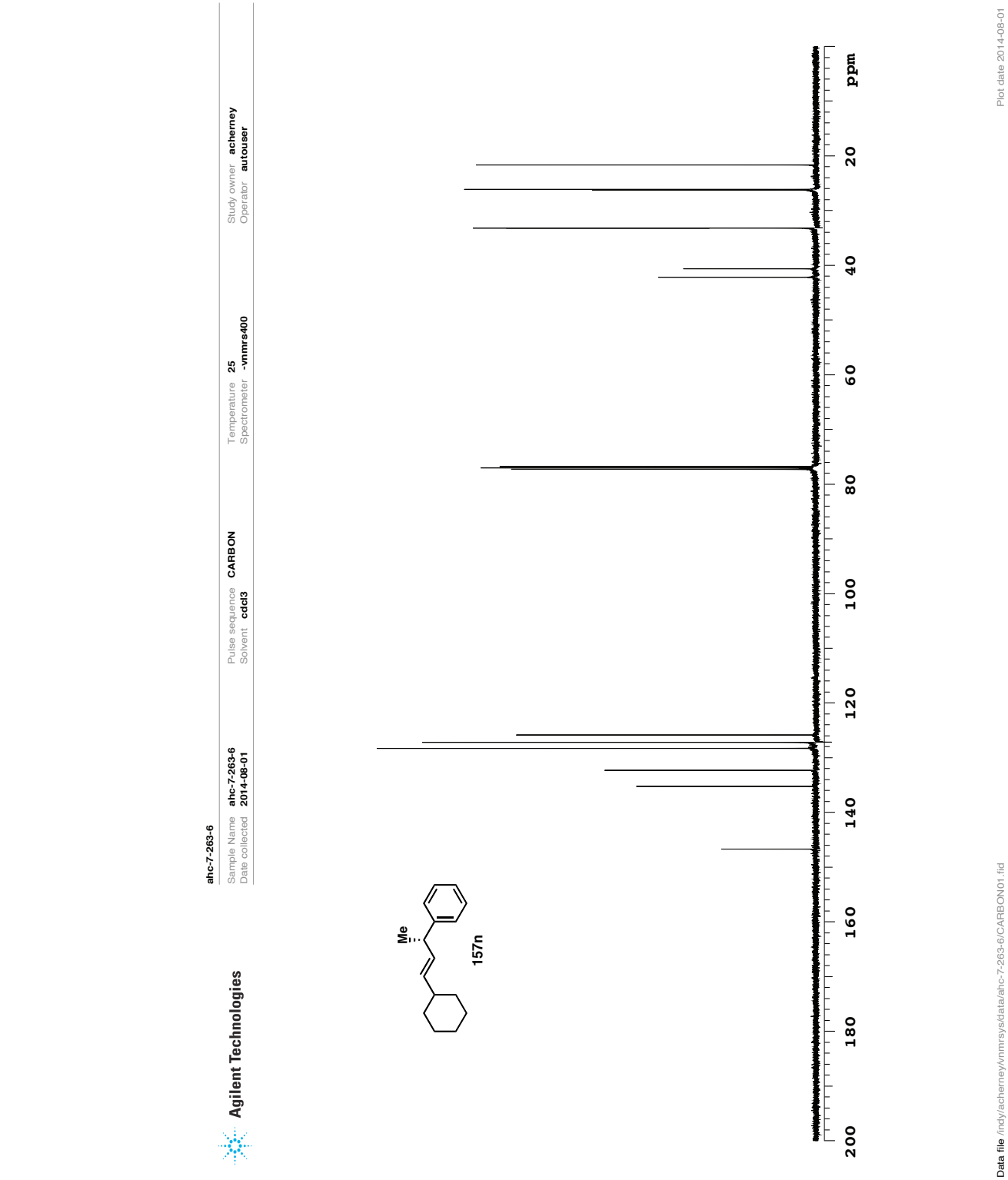

ahc-7-255-2
Sample Name ahc-7-255-2
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
157l
ppm
5.50
1.81
1.80
1.00
3.15
Data file /indy/achenney/vnmrsys/data/ahc-7-255-2/PROTON01.fid
Plot date 2014-07-30

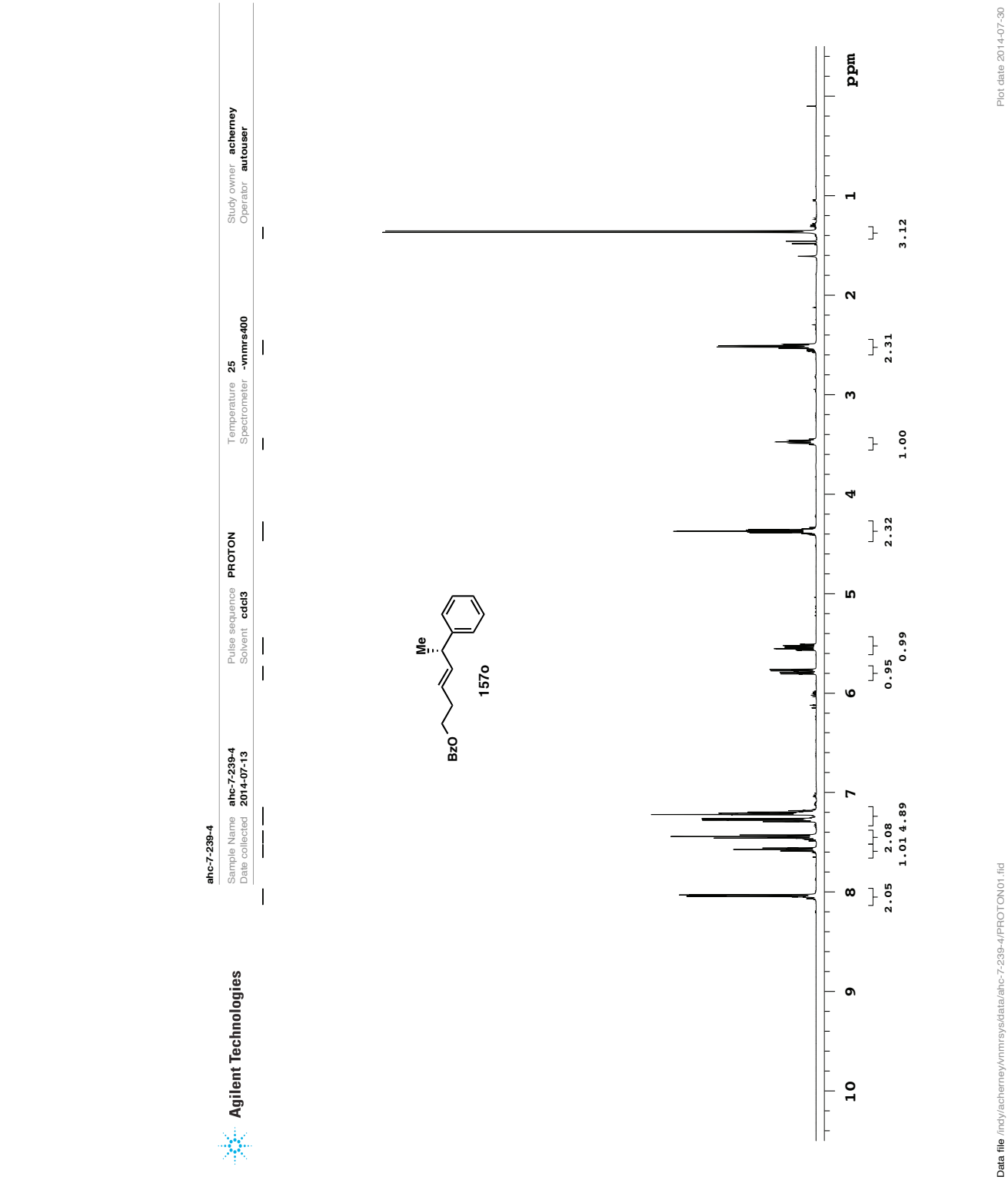

Agilent Technologies
ahc-7-255-2
Sample Name ahc-7-255-2
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157l
O
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-255-2/CARBON01.fid

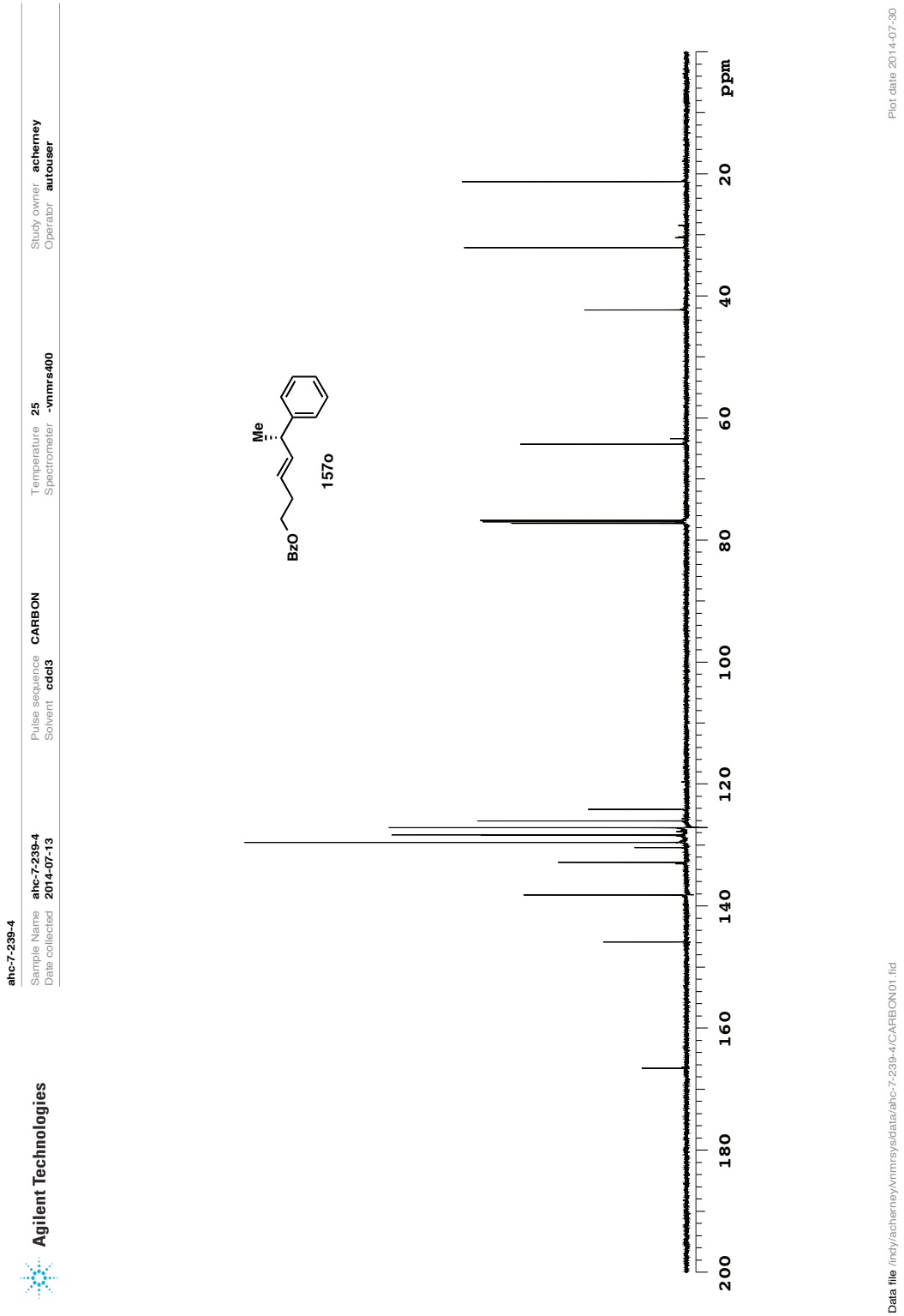

Agilent Technologies
ahc-7-255-5
Sample Name ahc-7-255-5
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157m
ppm
9.10
0.92
0.92
0.92
0.90
0.91
3.00
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-255-5/PROTON01.fid

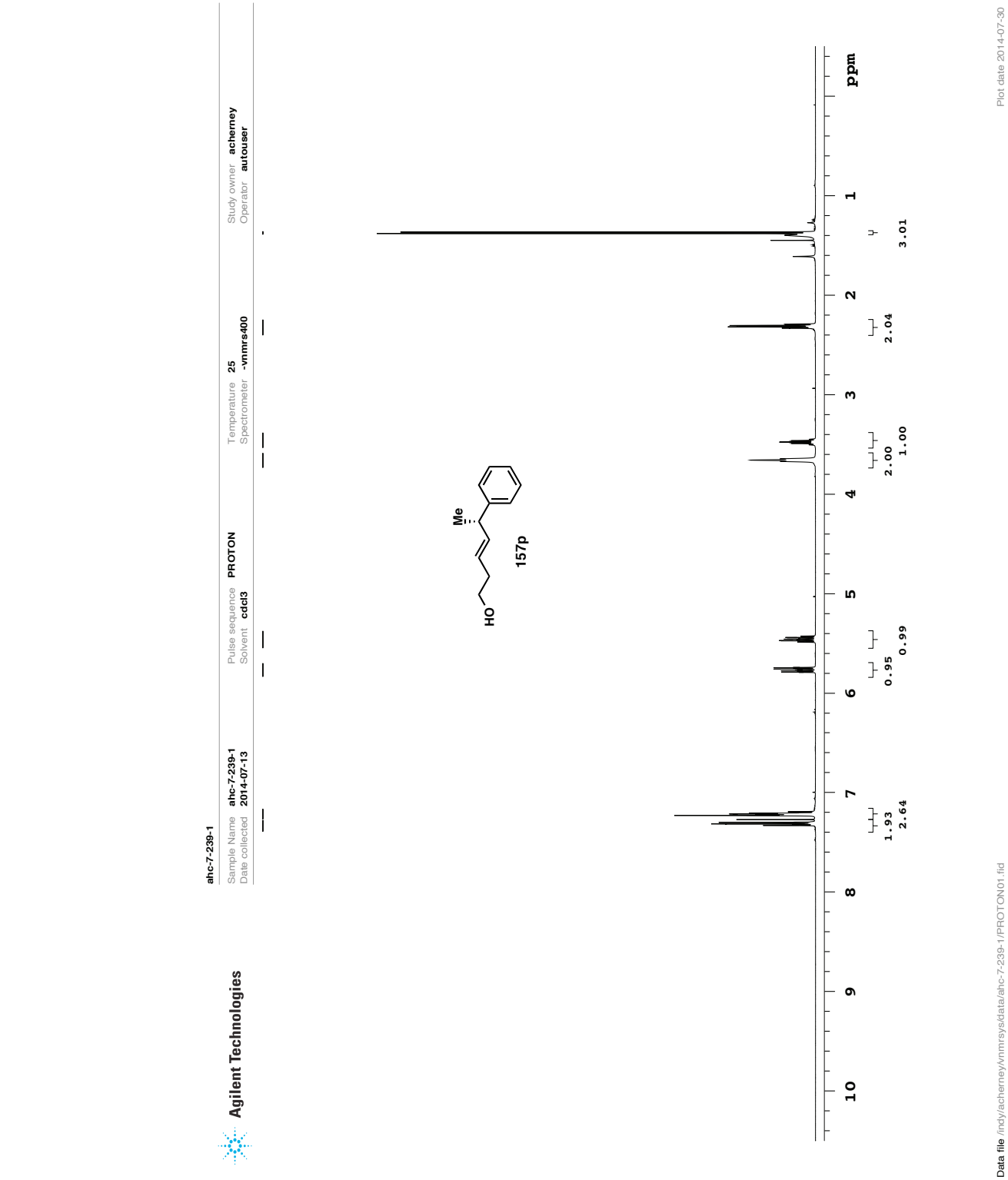

Agilent Technologies
ahc-7-255-5
Sample Name ahc-7-255-5
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157m
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-255-5/CARBON01.fid

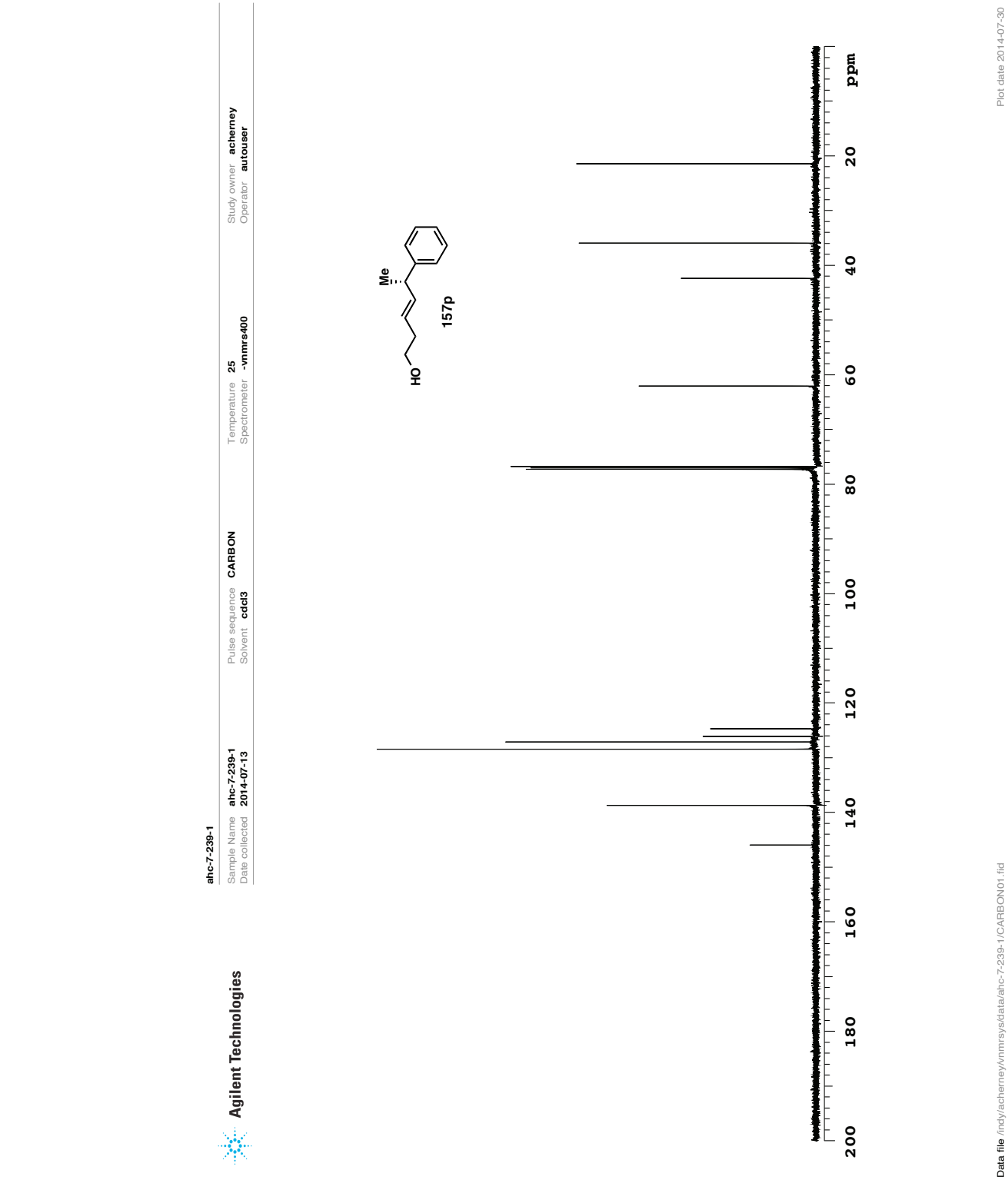

ahc-7-263-6
Sample Name ahc-7-263-6
Date collected 2014-08-01
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
157n
ppm
1.82
2.57
0.94
0.95
1.00
4.77
0.95
5.07
2.81
Agilent Technologies
Data file /indy/achenney/vnmrsys/data/ahc-7-263-6/PROTON01.fid
Plot date 2014-08-01

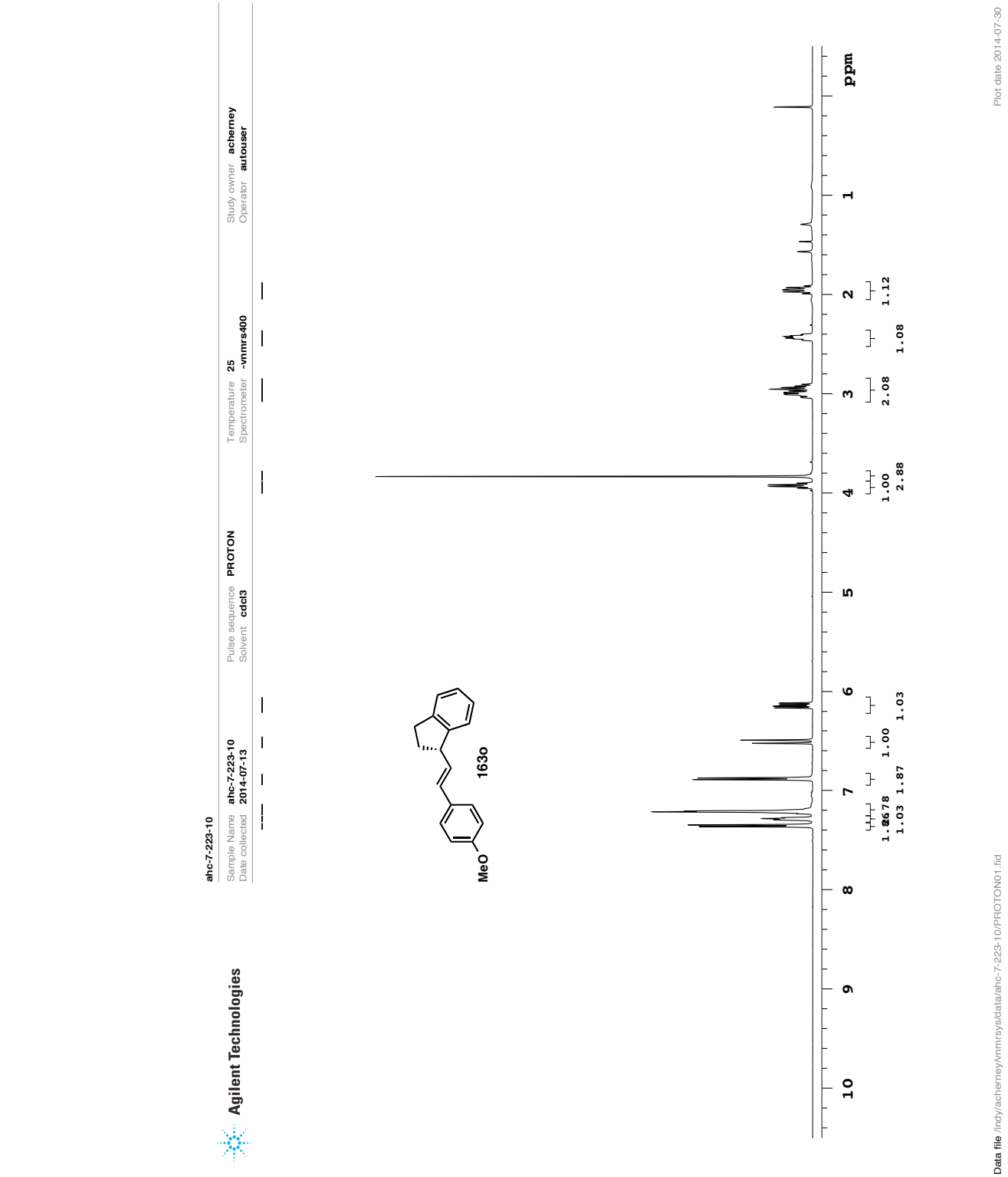

ahc-7-263-6
Sample Name ahc-7-263-6
Date collected 2014-08-01
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
Me
157n
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-08-01
Data file /indy/achenney/vnmrsys/data/ahc-7-263-6/CARBON01.fid

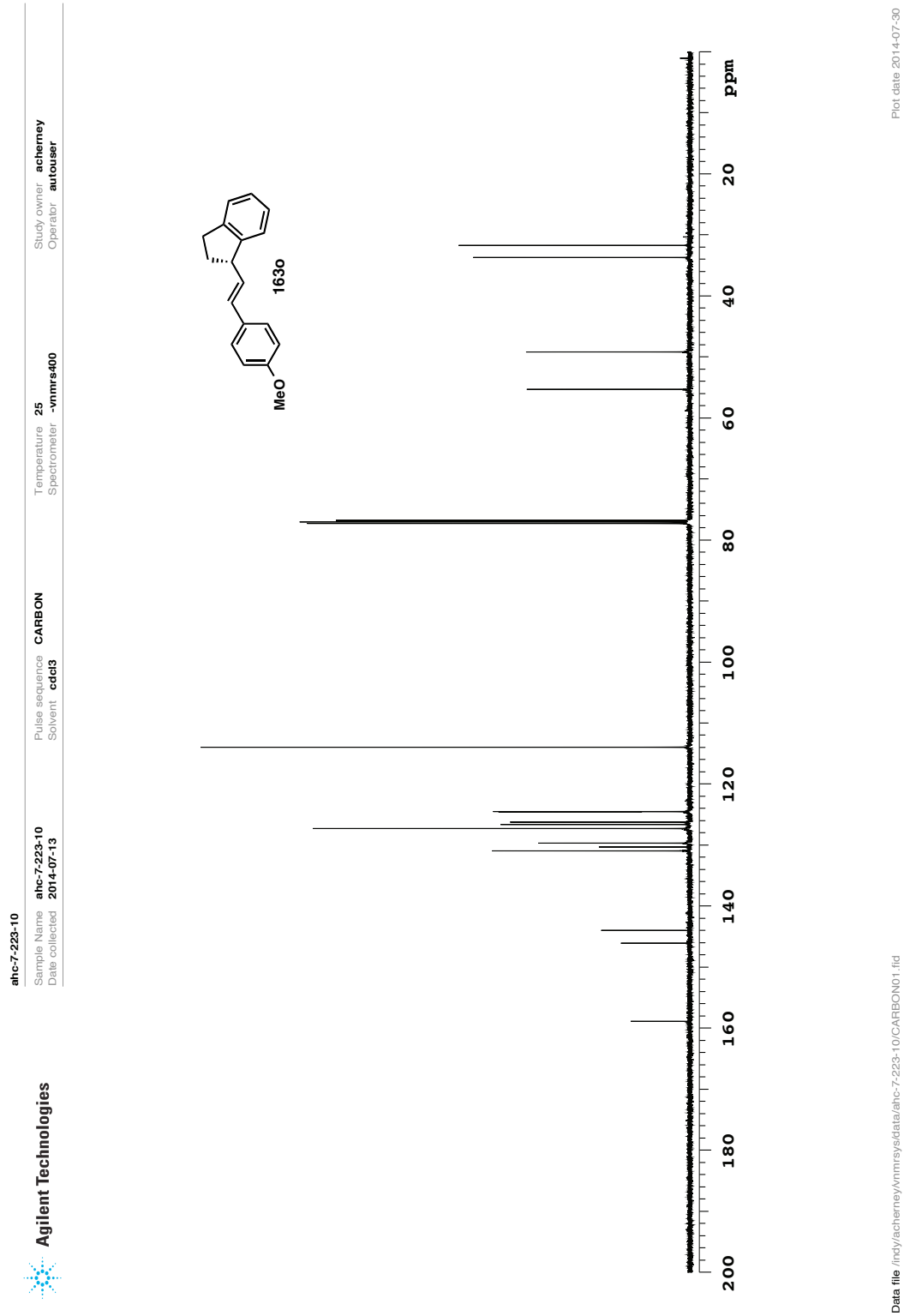

ahc-7-239-4
Sample Name ahc-7-239-4
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
BzO
157o
2.05
2.08
1.01
4.89
0.95
2.32
0.99
1.00
2.31
3.12
ppm
Agilent Technologies
Data file /indy/achenney/vnmrsys/data/ahc-7-239-4/PROTON01.fid
Plot date 2014-07-30

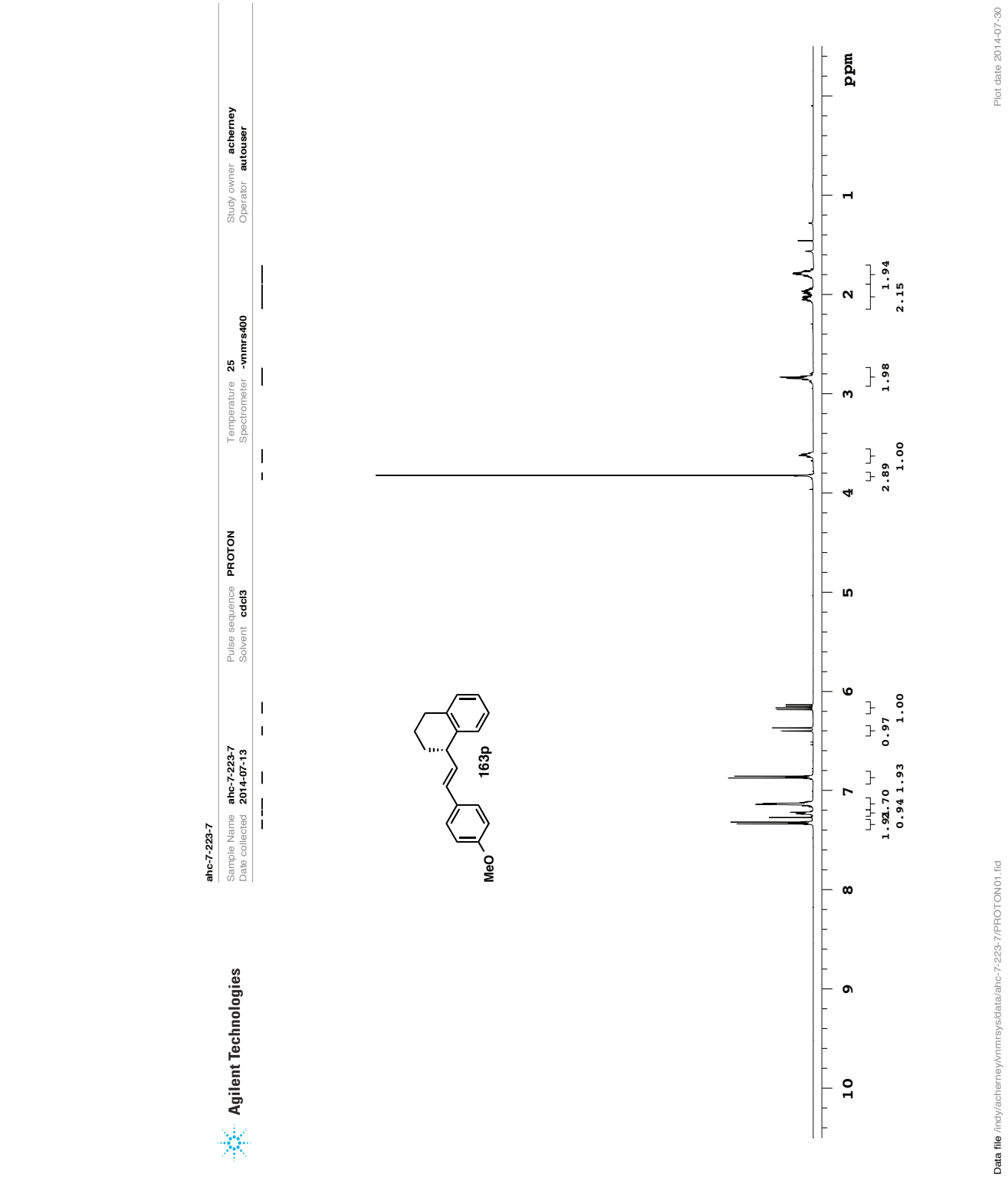

Agilent Technologies
ahc-7-239-4
Sample Name ahc-7-239-4
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
BzO
157o
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-239-4/CARBON01.fid

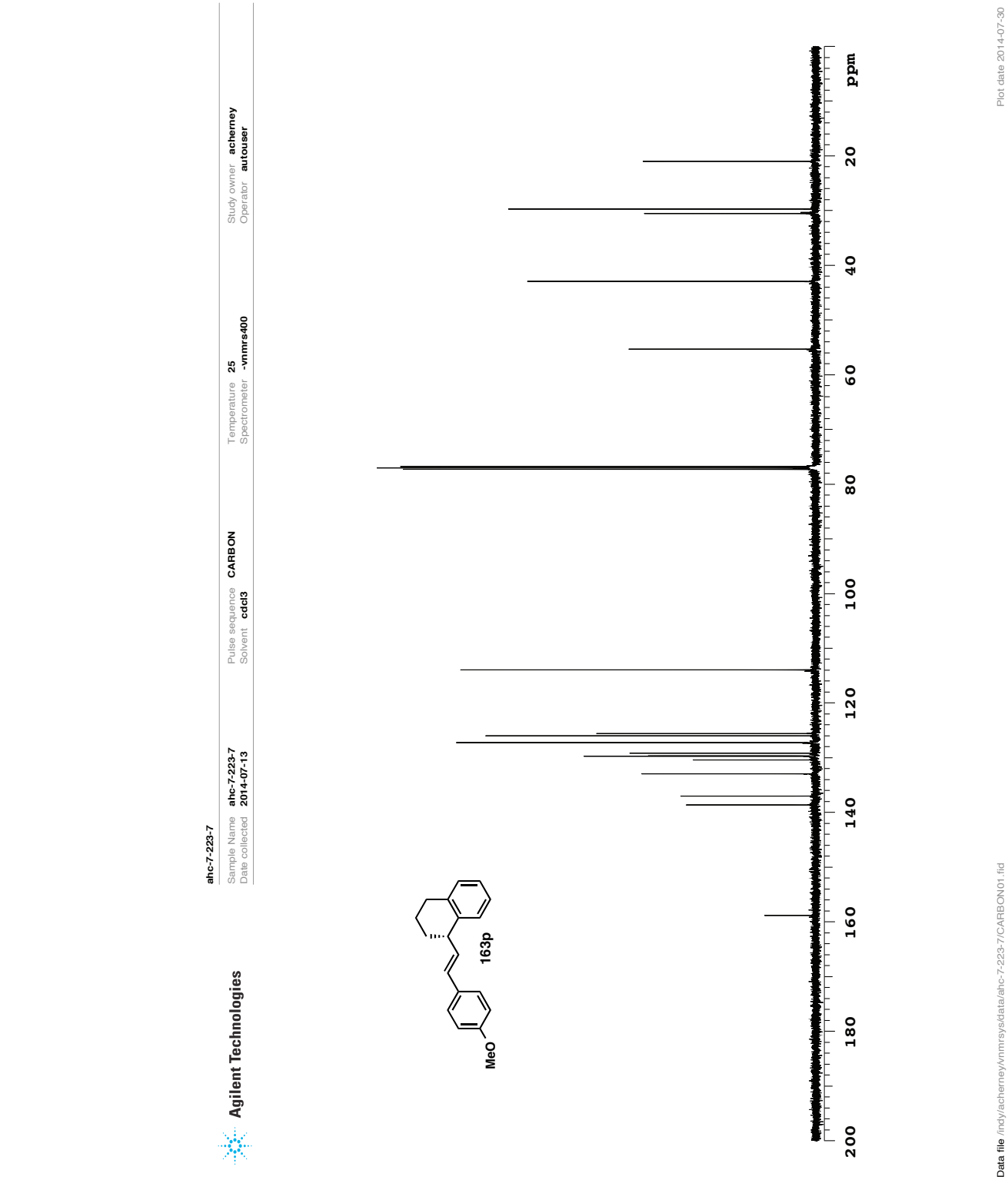

Agilent Technologies
ahc-7-239-1
Sample Name ahc-7-239-1
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
HO
157p
ppm
1.93
2.64
0.95
0.99
2.00
1.00
2.04
3.01
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-239-1/PROTON01.fid

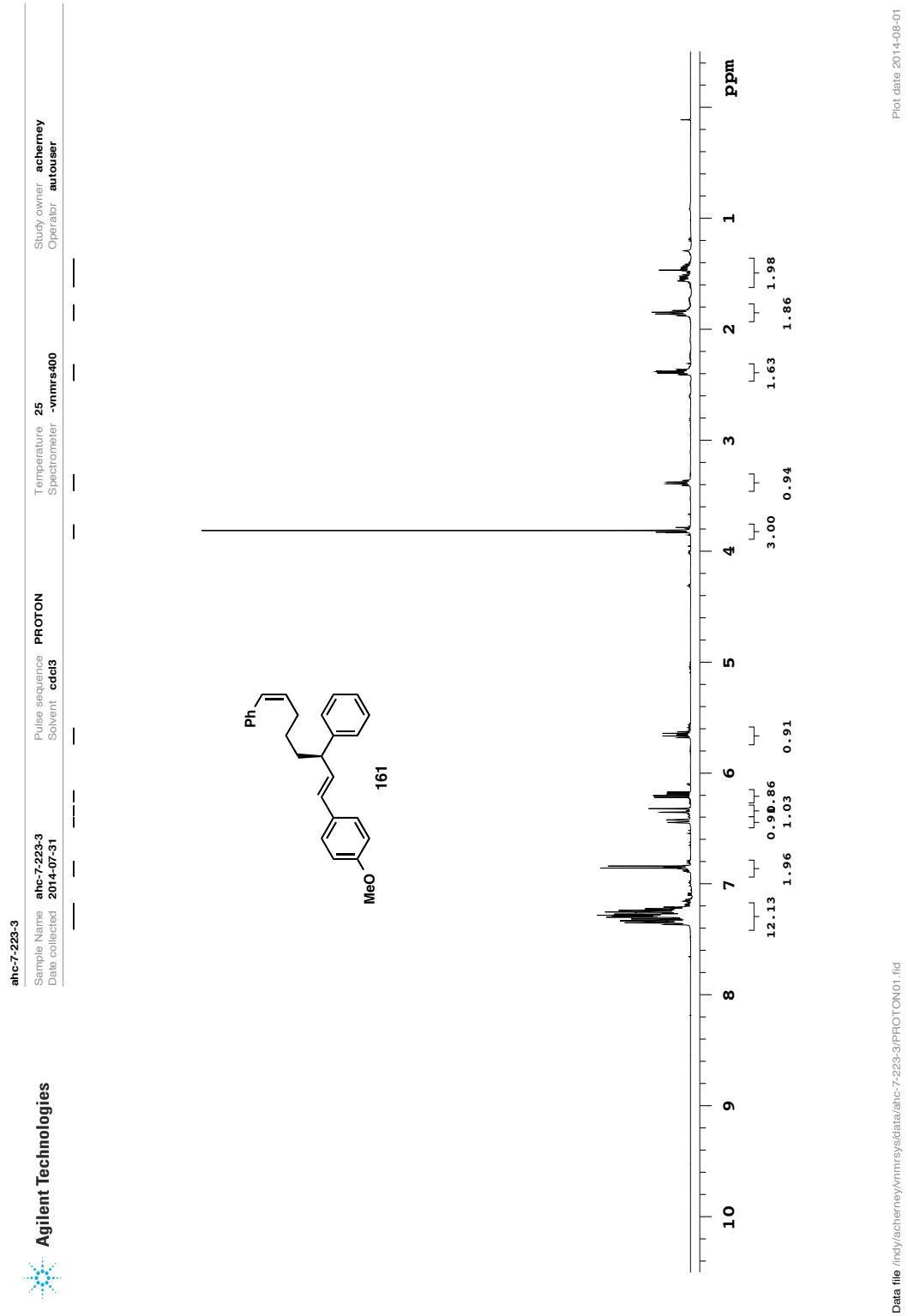

Agilent Technologies
ahc-7-239-1
Sample Name ahc-7-239-1
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Me
HO
157p
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-239-1/CARBON01.fid

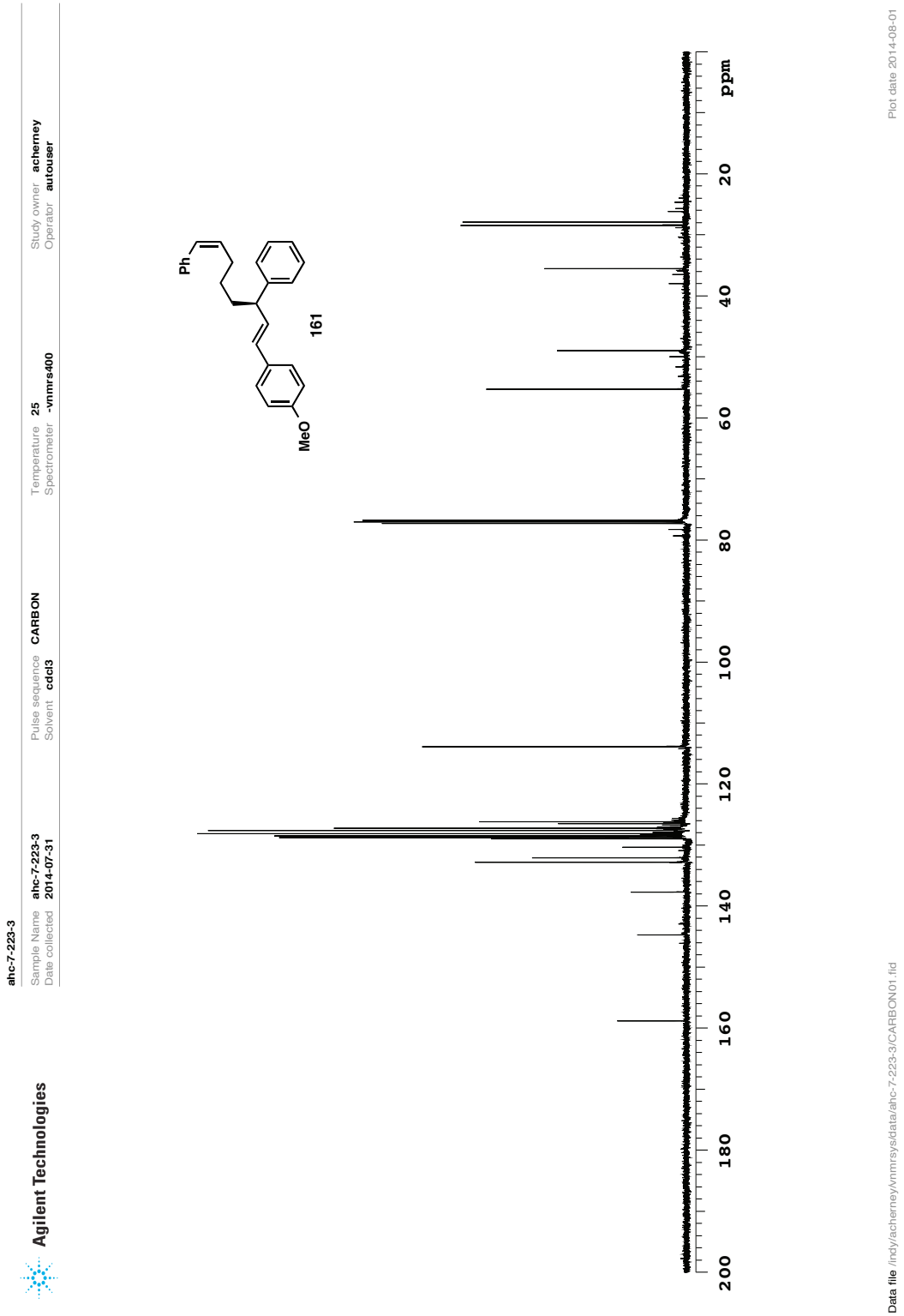

Agilent Technologies
ahc-7-223-10
Sample Name ahc-7-223-10
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
MeO
163o
ppm
1.86
7.78
1.03
1.00
1.87
1.03
1.00
2.88
2.08
1.08
1.12
Data file /indy/achenney/vnmrsys/data/ahc-7-223-10/PROTON01.fid
Plot date 2014-07-30


Agilent Technologies
ahc-7-223-10
Sample Name ahc-7-223-10
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
1630
MeO
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-223-10/CARBON01.fid


Agilent Technologies
ahc-7-223-7
Sample Name ahc-7-223-7
Date collected 2014-07-13
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
MeO
163p
ppm
10
9
8
7
6
5
4
3
2
1
1.92 1.70 0.97
0.94 1.93 1.00
2.89 1.98 1.94
1.00 2.15
Data file /indy/achenney/vnmrsys/data/ahc-7-223-7/PROTON01.fid
Plot date 2014-07-30


ahc-7-223-7
Sample Name ahc-7-223-7
Date collected 2014-07-13
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Agilent Technologies
163p
MeO
ppm
200
180
160
140
120
100
80
60
40
20
Plot date 2014-07-30
Data file /indy/achenney/vnmrsys/data/ahc-7-223-7/CARBON01.fid


Agilent Technologies
ahc-7-223-3
Sample Name ahc-7-223-3
Date collected 2014-07-31
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Ph
MeO
161
ppm
12.13
1.96
0.90
0.86
1.03
0.91
3.00
0.94
1.63
1.86
1.98
Data file /indy/achenney/vnmrsys/data/ahc-7-223-3/PROTON01.fid
Plot date 2014-08-01


Agilent Technologies
ahc-7-223-3
Sample Name ahc-7-223-3
Date collected 2014-07-31
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner achenney
Operator autouser
Ph
MeO
161
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2014-08-01
Data file /indy/achenney/vnmrsys/data/ahc-7-223-3/CARBON01.fid