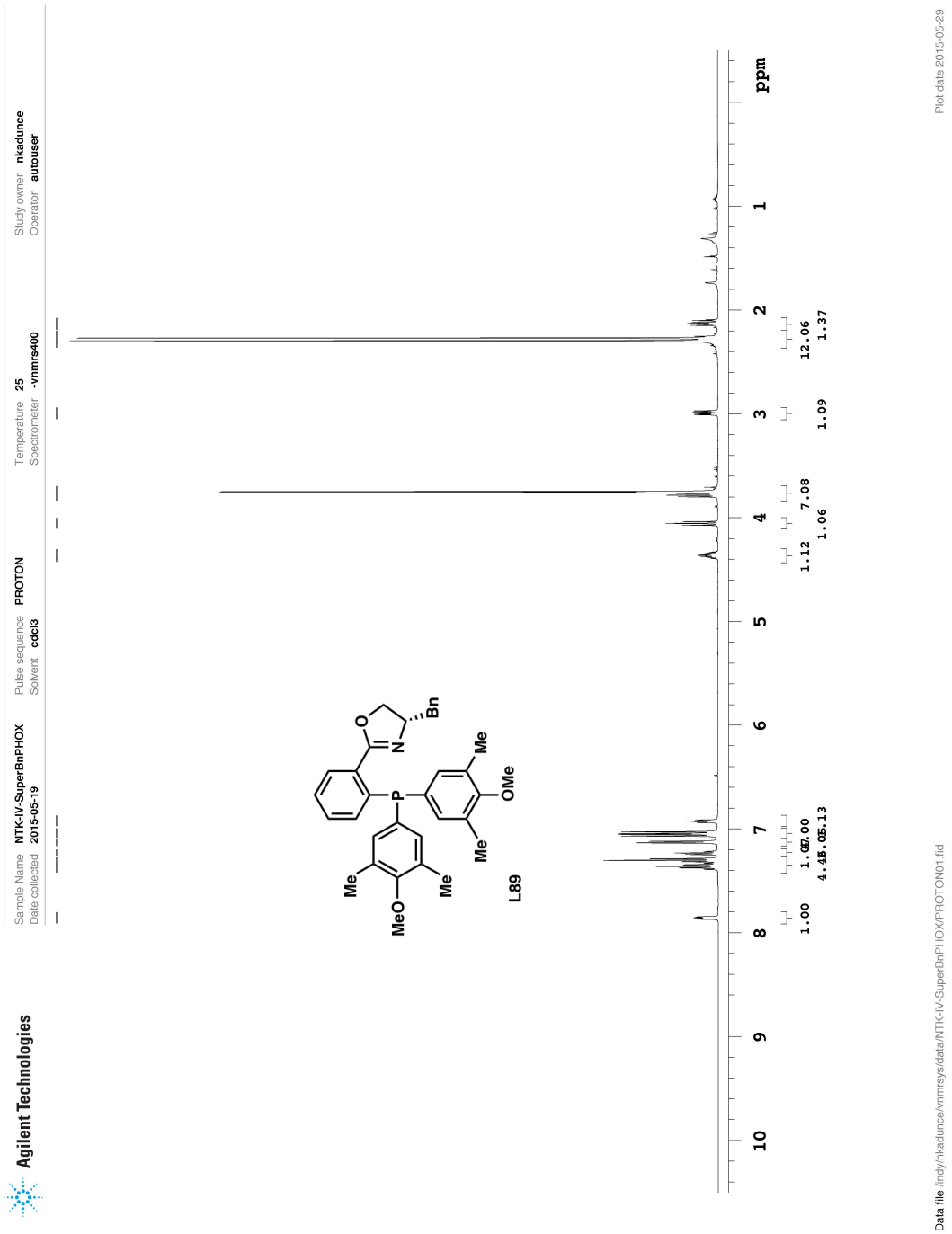
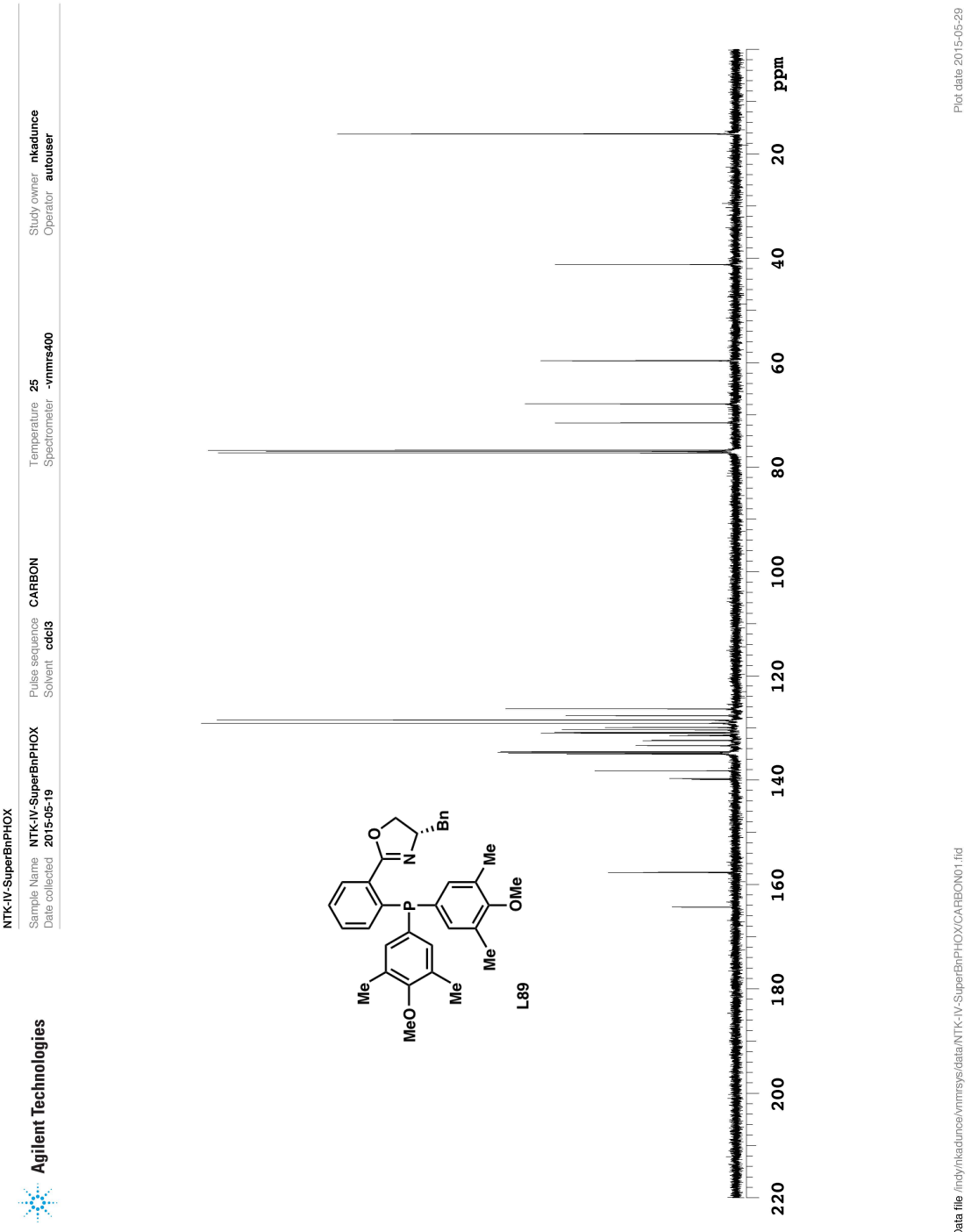
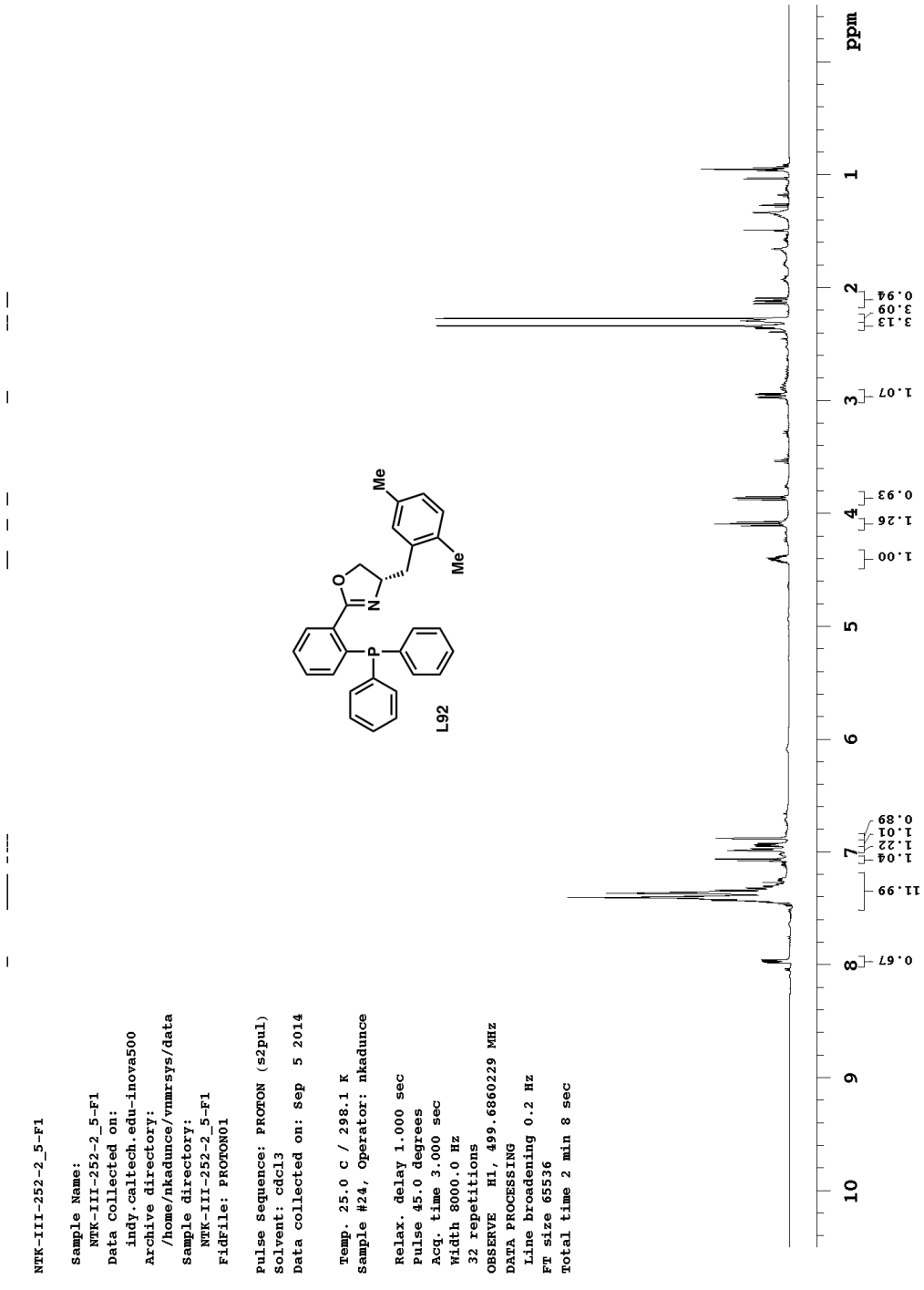
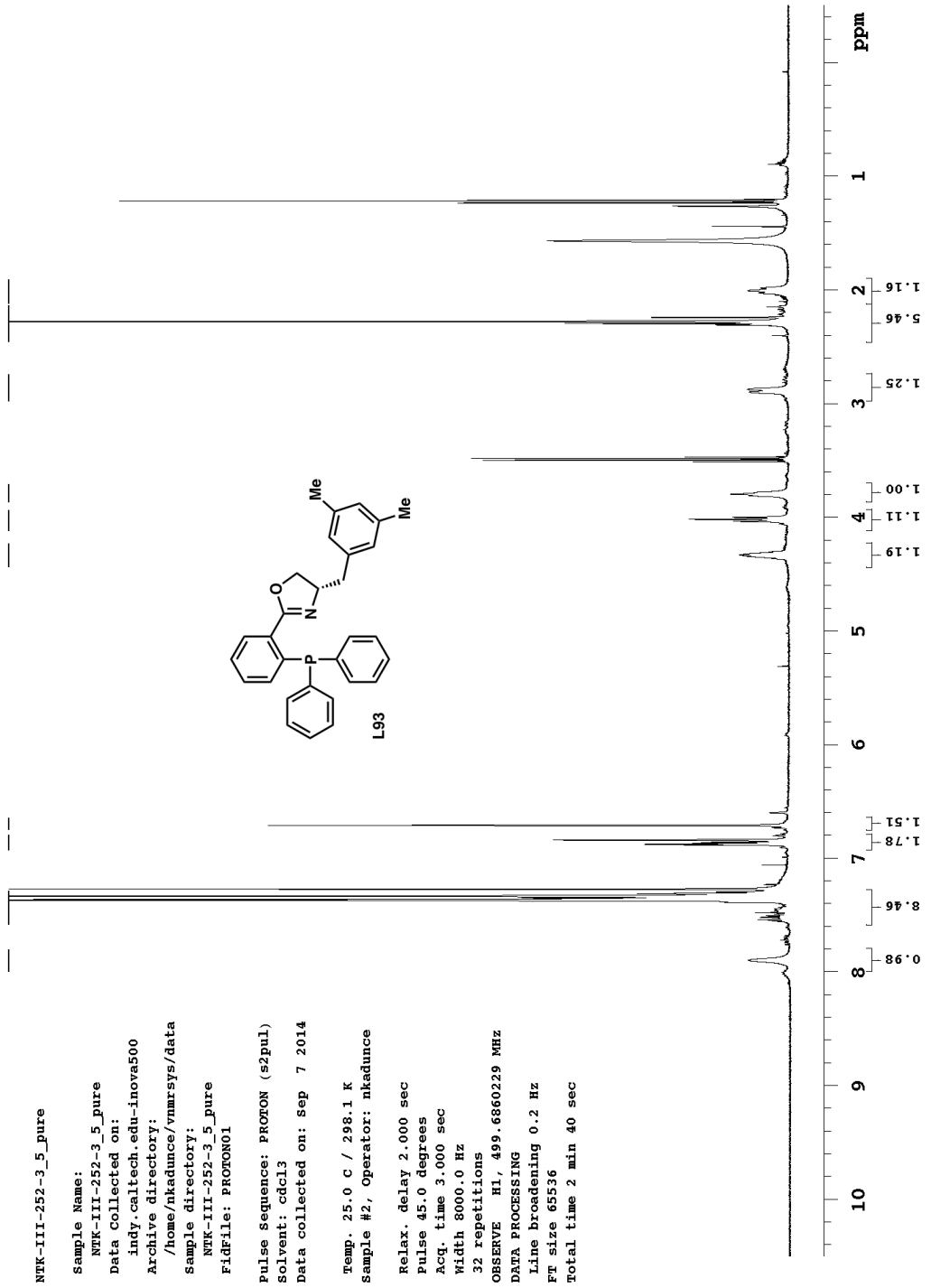
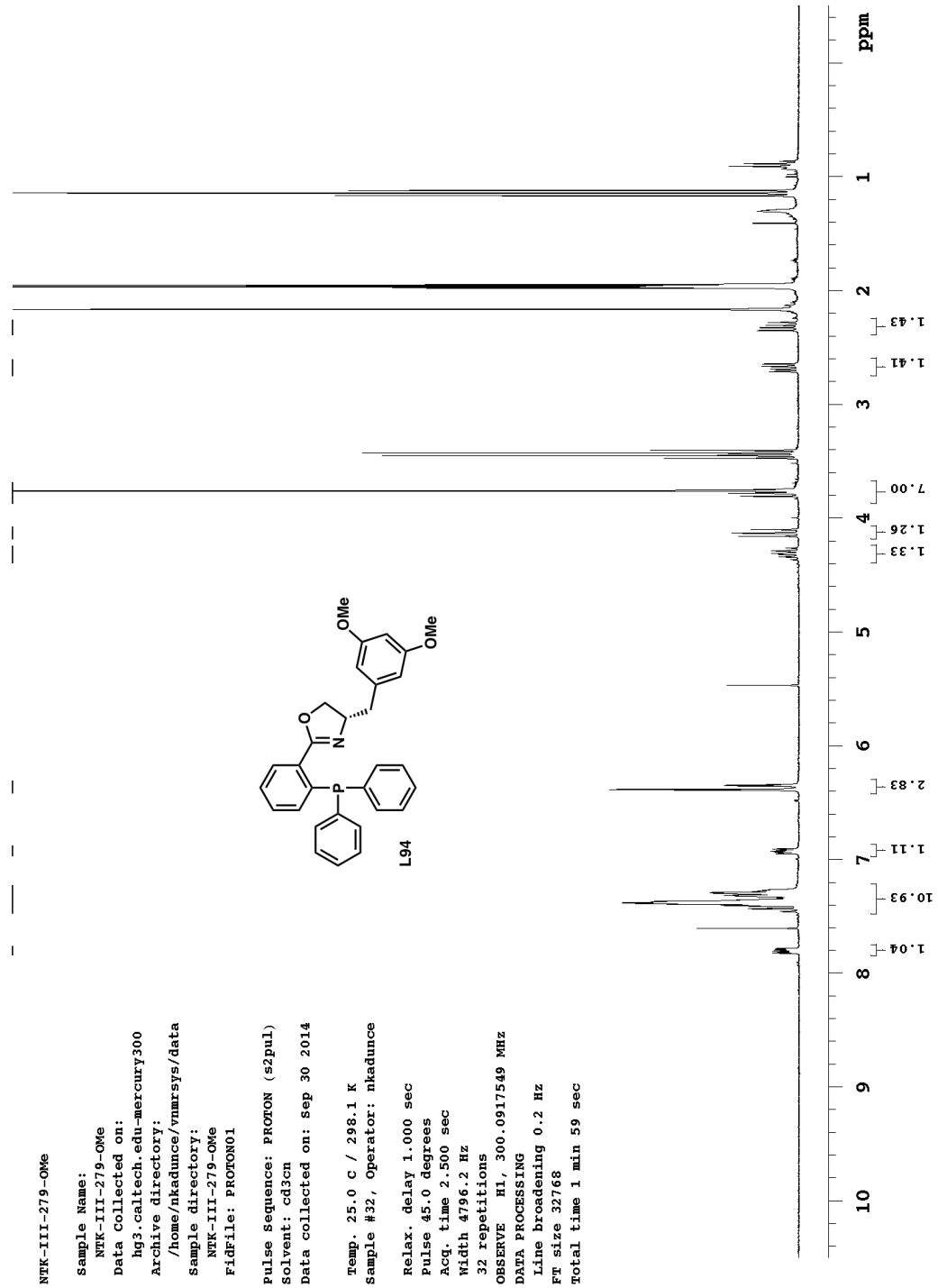

NTK-IV-SuperBnPHOX
Agilent Technologies
Sample Name NTK-IV-SuperBnPHOX
Date collected 2015-05-19
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
Me
MeO
Me
Me
Me
OMe
Bn
L89
ppm
Data file /mdy/nkadunce/vnmrsys/data/NTK-IV-SuperBnPHOX/PROTON01.fid
Plot date 2015-05-29


NTK-IV-SuperBnPHOX
Agilent Technologies
Sample Name NTK-IV-SuperBnPHOX
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
ppm
220
200
180
160
140
120
100
80
60
40
20
L89
Bn
Me
OMe
Me
Me
MeO
Me
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-SuperBnPHOX/CARBON01.fid

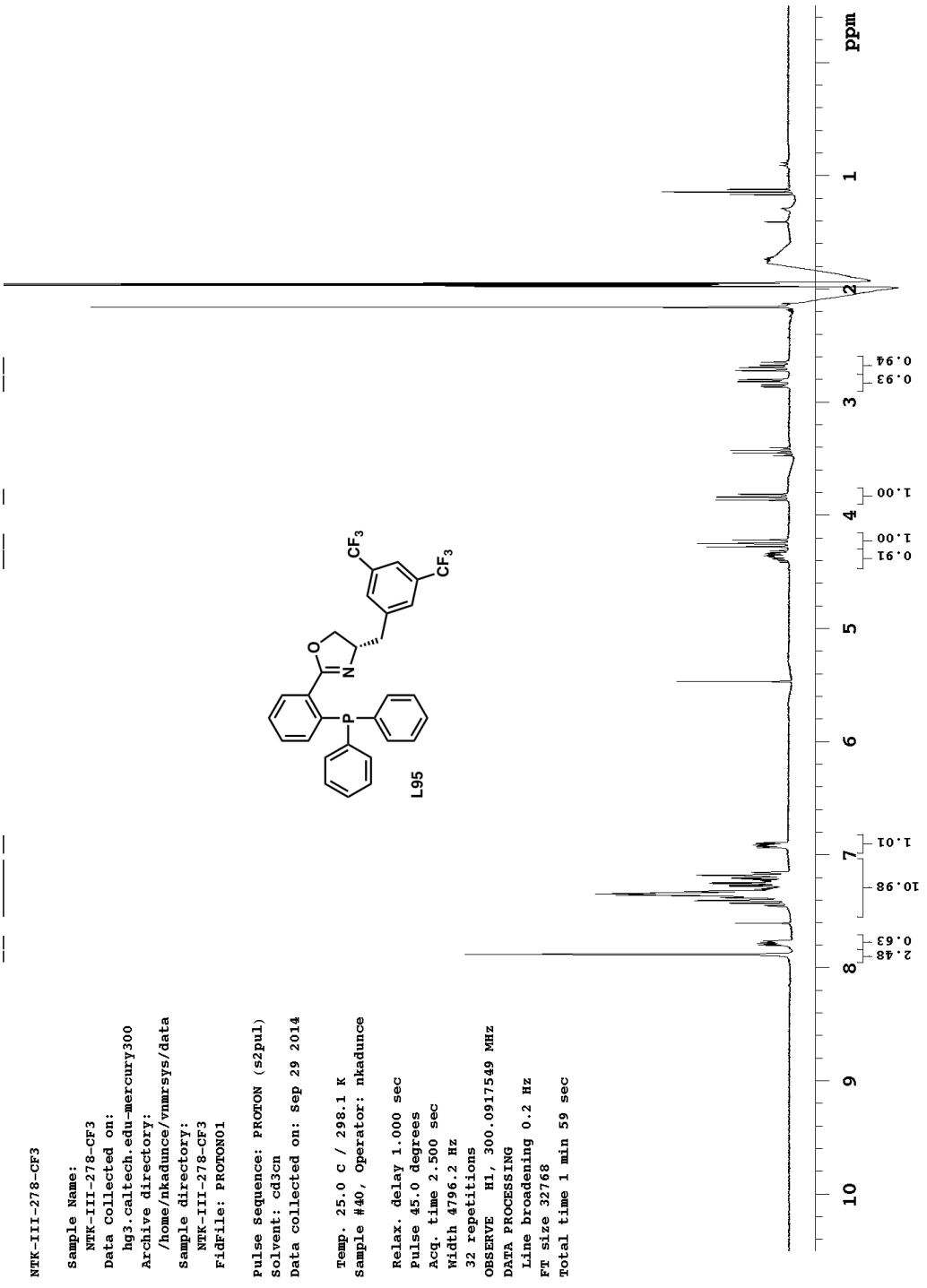
Agilent Technologies
NTK-IV-SuperBnPHOX31P
Sample Name NTK-IV-SuperBnPHOX31P
Date collected 2015-05-19
Pulse sequence PHOSPHORUS
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
L89
Me
MeO
Me
Me
Me
OMe
Bn
O
N
P
200
180
160
140
120
100
80
60
40
20
0
−20
ppm
Data file /hg3/nkadunce/vnmrsys/data/NTK-IV-SuperBnPHOX31P/PHOSPHORUS01.fid
Plot date 2015-05-29


NTK-III-252-2_5-F1
Sample Name:
NTK-III-252-2_5-F1
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-252-2_5-F1
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 5 2014
Temp. 25.0 C / 298.1 K
Sample #24, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.6860229 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 8 sec
Me
Me
O
N
P
L92
11.99
1.04
1.22
1.01
0.89
0.67
1.00
1.26
0.93
1.07
3.13
3.09
0.94
10
9
8
7
6
5
4
3
2
1
ppm

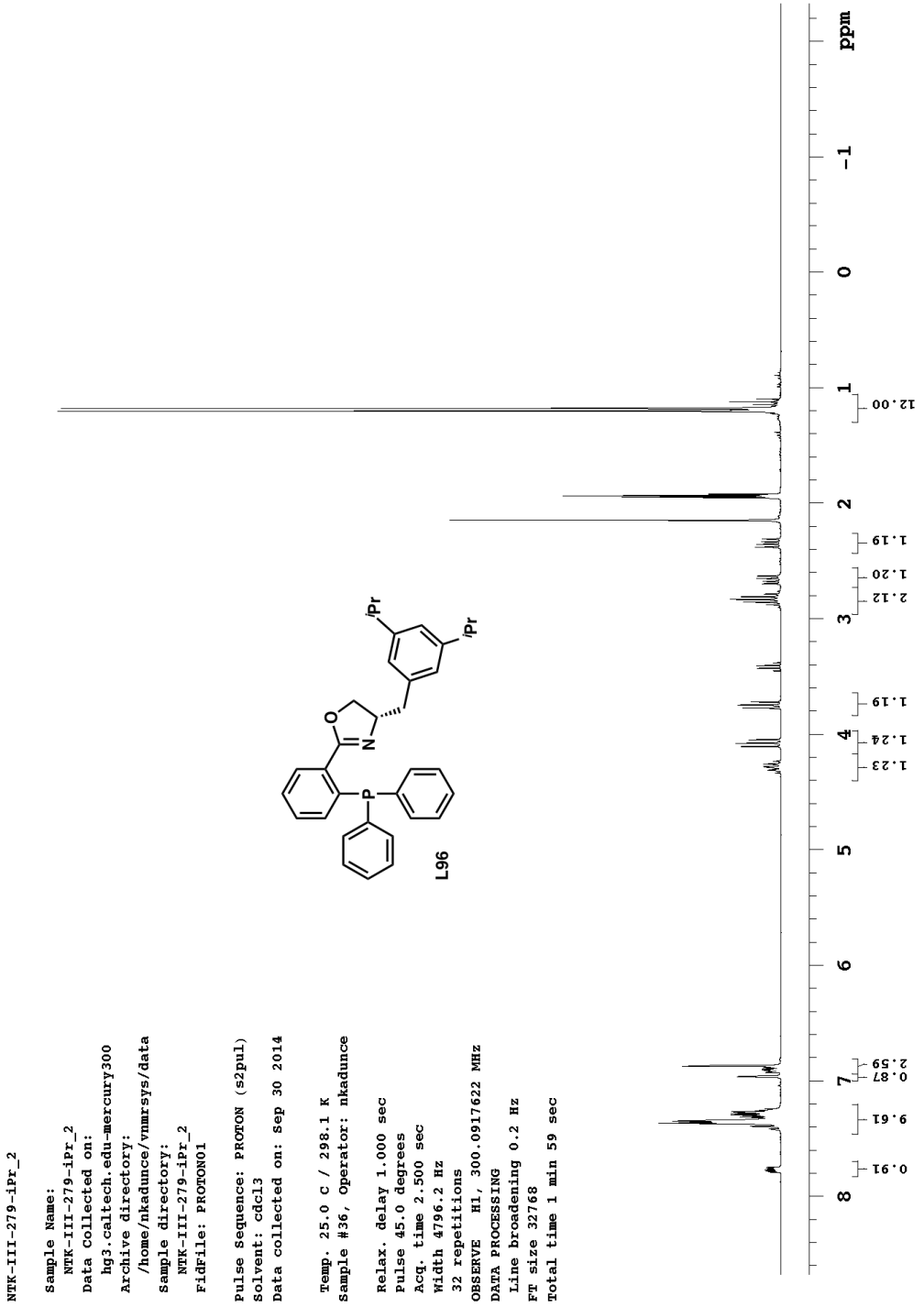

NTK-III-252-3_5_pure
Sample Name:
NTK-III-252-3_5_pure
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-252-3_5_pure
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 7 2014
Temp. 25.0 C / 298.1 K
Sample #2, Operator: nkadunce
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 3.000 sec
Width 8000.0 Hz
32 repetitions
OBSERVE H1, 499.6860229 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 2 min 40 sec
Me
Me
O
N
P
L93
10
9
8
7
6
5
4
3
2
1
ppm
0.98
8.46
1.78
1.51
1.19
1.11
1.00
1.25
5.46
1.16


NTK-III-279-OMe
Sample Name:
NTK-III-279-OMe
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkaduncе/vnmrsys/data
Sample directory:
NTK-III-279-OMe
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Sep 30 2014
Temp. 25.0 C / 298.1 K
Sample #32, Operator: nkaduncе
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 4796.2 Hz
32 repetitions
OBSERVE H1, 300.0917549 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 59 sec
OMe
OMe
O
N
P
L94
1.04
10.93
1.11
2.83
1.33
1.26
7.00
1.41
1.43
10
9
8
7
6
5
4
3
2
1
ppm

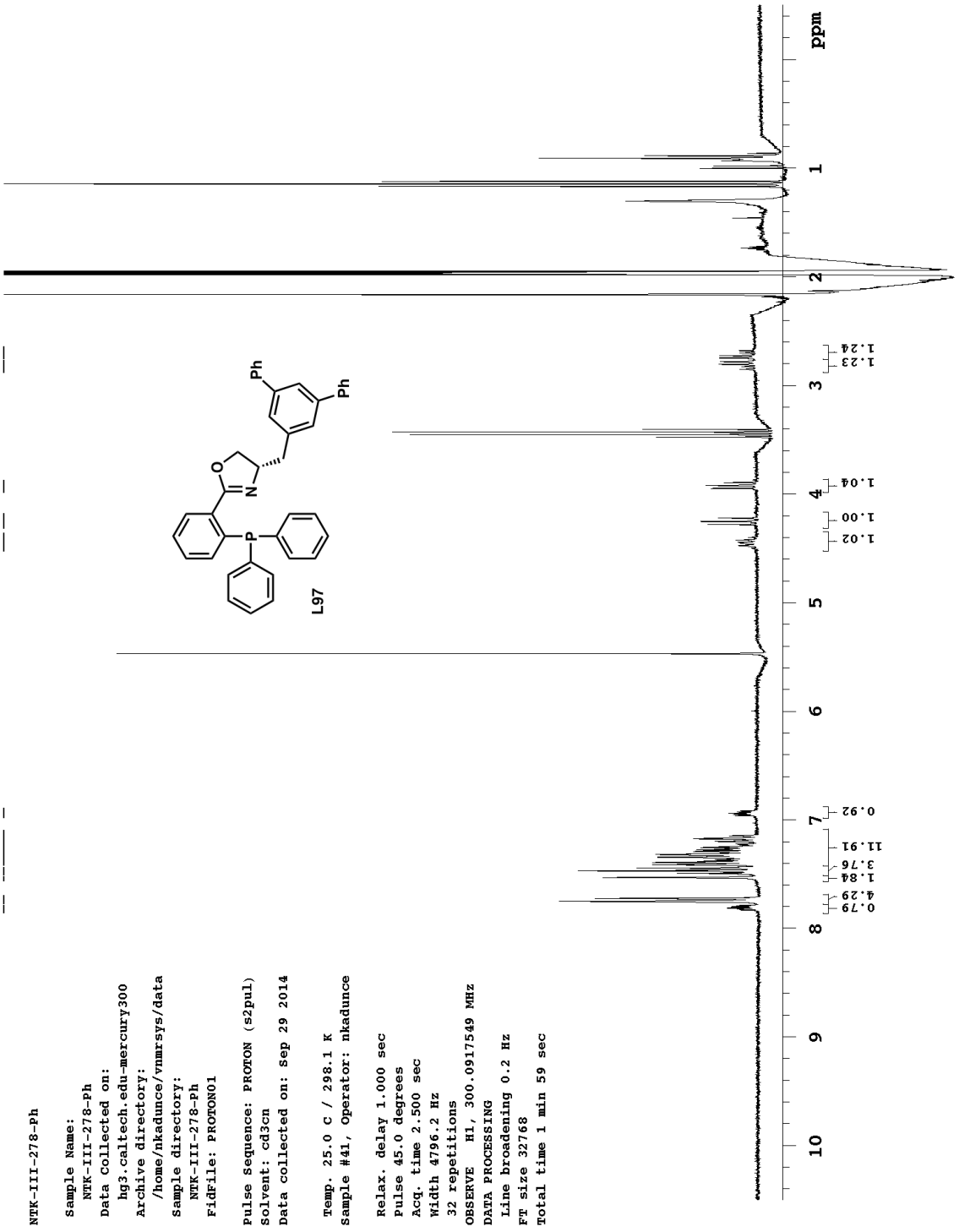
NTK-III-279-OMe
Sample Name:
NTK-III-279-OMe
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-279-OMe
FidFile: PHOSPHORUS01
Pulse Sequence: PHOSPHORUS (s2pul)
Solvent: cd3cn
Data collected on: Sep 30 2014
Temp. 25.0 C / 298.1 K
Sample #32, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.078 sec
Width 30395.1 Hz
64 repetitions
OBSERVE P31, 121.4793691 MHz
DECOUPLE H1, 300.0933075 MHz
Power 34 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 min 24 sec
OMe
OMe
O
N
P
L94
200
180
160
140
120
100
80
60
40
20
0
-20
ppm


NTK-III-278-CF3
Sample Name:
NTK-III-278-CF3
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-278-CF3
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Sep 29 2014
Temp. 25.0 C / 298.1 K
Sample #40, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 4796.2 Hz
32 repetitions
OBSERVE H1, 300.0917549 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 59 sec
L95
ppm
0.93
0.94
1.00
0.91
1.00
1.01
10.98
2.48
0.63

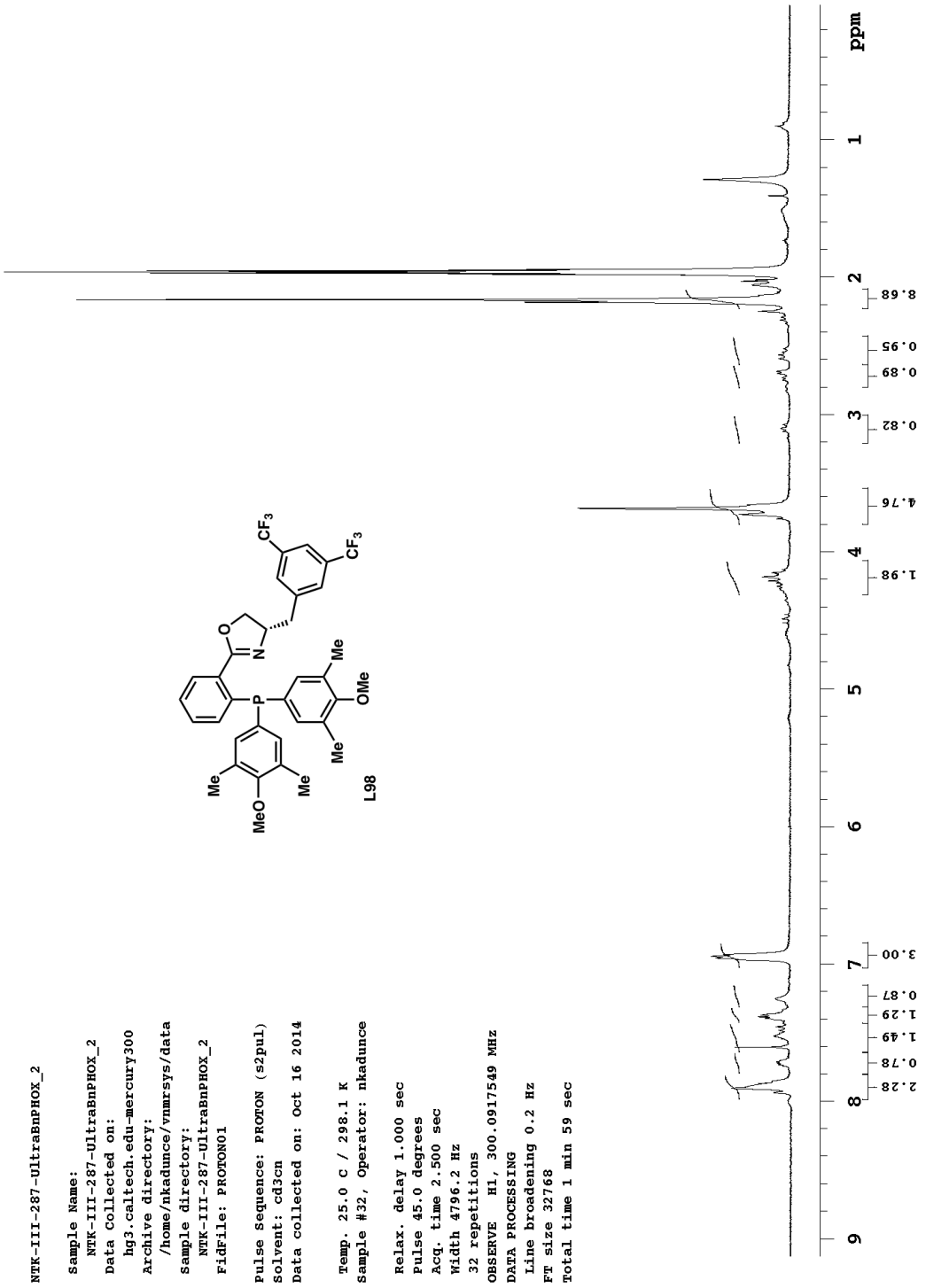
STANDARD PHOSPHORUS PARAMETERS
Sample Name:
NTK-III-278-CF3
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-278-CF3
FidFile: PHOSPHORUS01
Pulse Sequence: PHOSPHORUS (s2pul)
Solvent: cd3cn
Data collected on: Sep 29 2014
Temp. 25.0 C / 298.1 K
Sample #40, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.078 sec
Width 30395.1 Hz
64 repetitions
OBSERVE P31, 121.4793691 MHz
DECOUPLE H1, 300.0933075 MHz
Power 34 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 min 24 sec
CF3
CF3
O
N
P
L95
200
180
160
140
120
100
80
60
40
20
0
-20
ppm


NTK-III-279-iPr_2
Sample Name:
NTK-III-279-iPr_2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkaduncе/vnmrsys/data
Sample directory:
NTK-III-279-iPr_2
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 30 2014
Temp. 25.0 C / 298.1 K
Sample #36, Operator: nkaduncе
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 4796.2 Hz
32 repetitions
OBSERVE H1, 300.0917622 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 59 sec
iPr
iPr
O
N
P
L96
12.00
1.19
2.12
1.20
1.19
1.23
1.24
0.91
9.61
0.87
2.59
ppm

NTK-III-279-iPr_2
Sample Name:
NTK-III-279-iPr_2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-279-iPr_2
FidFile: PHOSPHORUS01
Pulse Sequence: PHOSPHORUS (s2pul)
Solvent: cdcl3
Data collected on: Sep 30 2014
Temp. 25.0 C / 298.1 K
Sample #36, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.078 sec
Width 30395.1 Hz
64 repetitions
OBSERVE P31, 121.4787265 MHz
DECOUPLE H1, 300.0917200 MHz
Power 34 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 min 24 sec
iPr
iPr
O
N
P
L96
200
180
160
140
120
100
80
60
40
20
0
-20
ppm

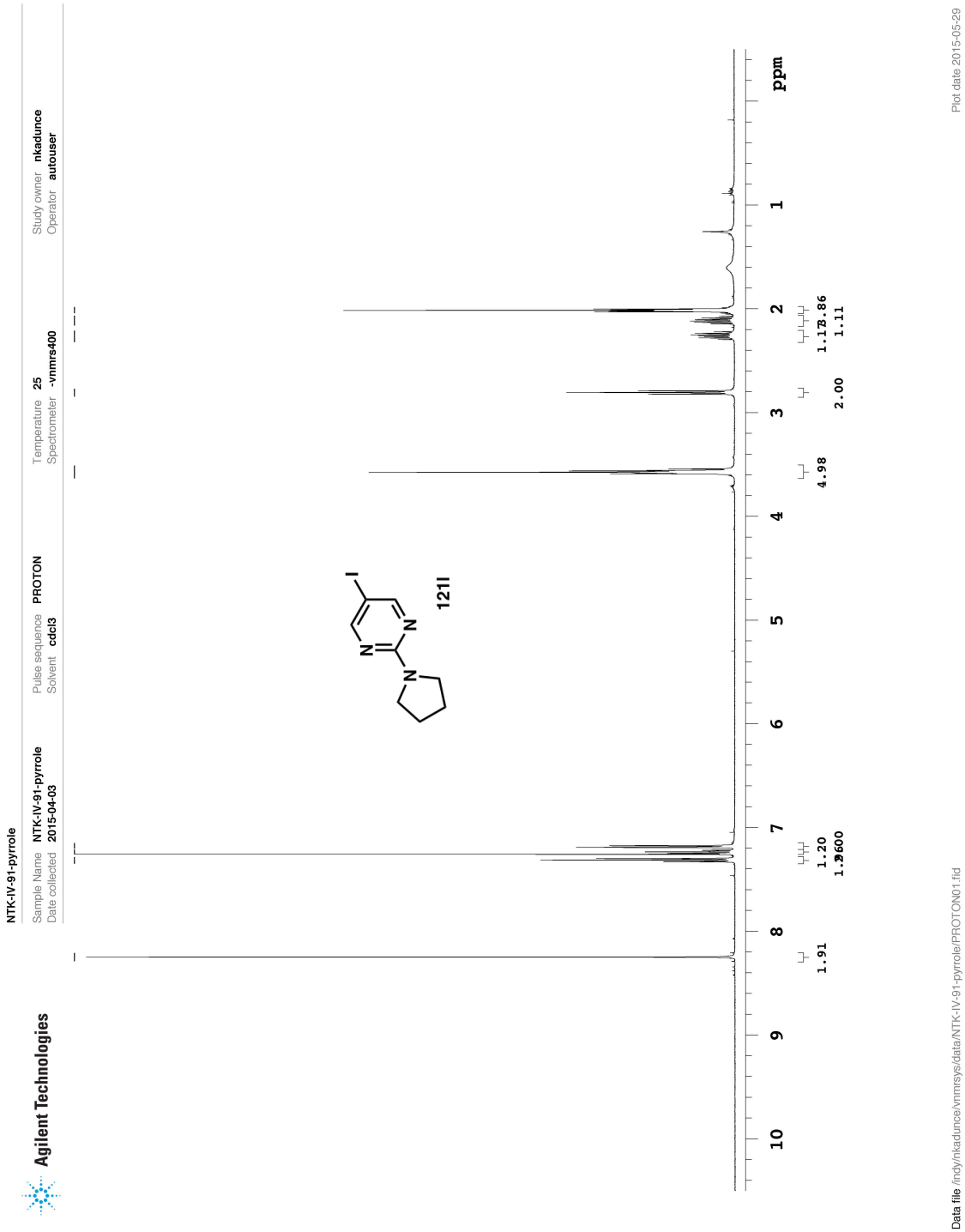

NTK-III-278-Ph
Sample Name:
NTK-III-278-Ph
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkaduncе/vnmrsys/data
Sample directory:
NTK-III-278-Ph
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Sep 29 2014
Temp. 25.0 C / 298.1 K
Sample #41, Operator: nkaduncе
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 4796.2 Hz
32 repetitions
OBSERVE H1, 300.0917549 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 59 sec
Ph
Ph
O
N
P
L97
ppm
1
2
3
4
5
6
7
8
9
10
0.92
11.91
3.76
1.84
0.79
4.29
1.24
1.23
1.04
1.02
1.00

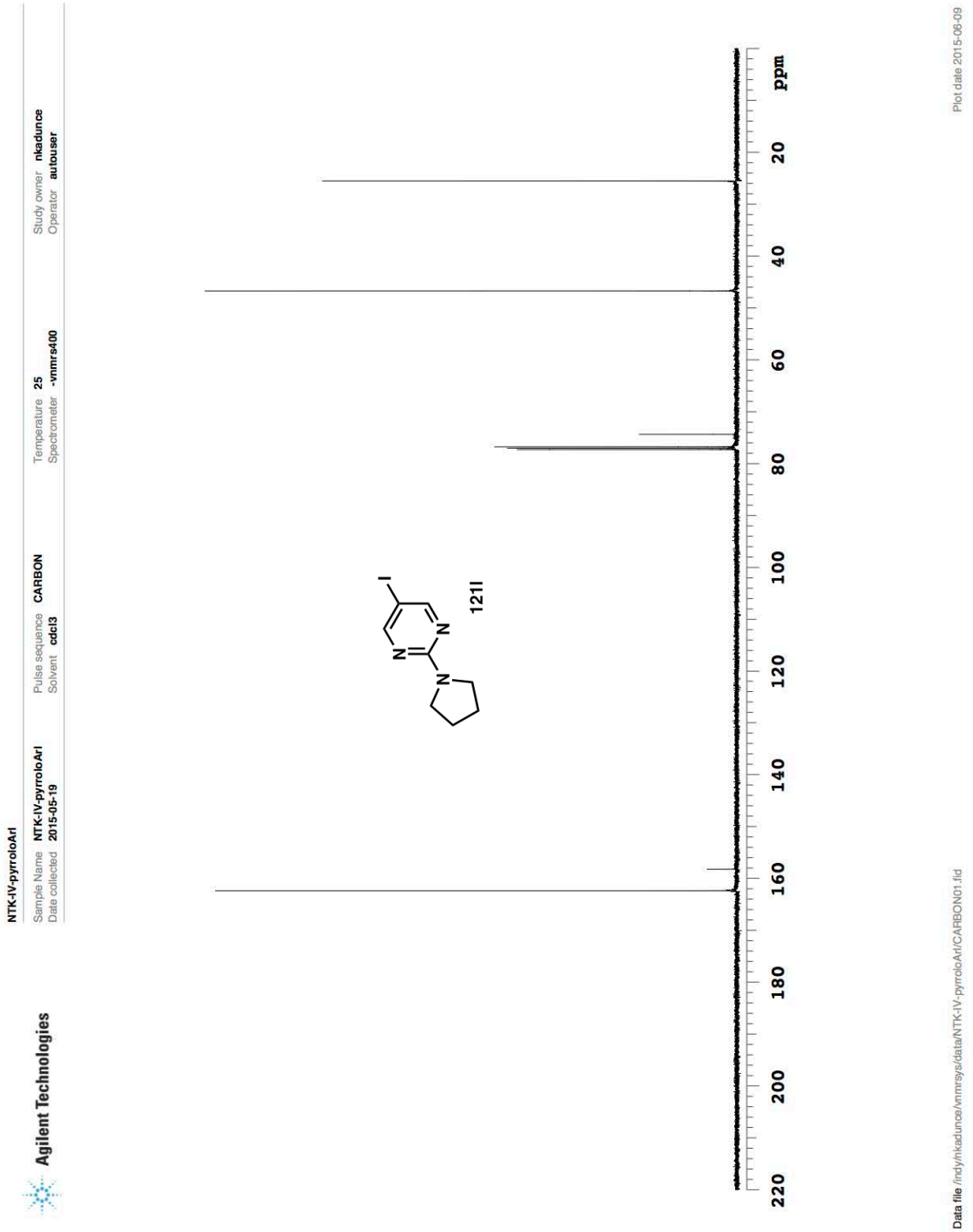
NTK-III-278-Ph
Sample Name:
NTK-III-278-Ph
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkaduncе/vnmrsys/data
Sample directory:
NTK-III-278-Ph
FidFile: PHOSPHORUS01
Pulse Sequence: PHOSPHORUS (s2pul)
Solvent: cd3cn
Data collected on: Sep 29 2014
Temp. 25.0 C / 298.1 K
Sample #41, Operator: nkaduncе
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.078 sec
Width 30395.1 Hz
64 repetitions
OBSERVE P31, 121.4793691 MHz
DECOUPLE H1, 300.0933075 MHz
Power 34 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 2 min 24 sec
Ph
Ph
O
N
P
L97
200
180
160
140
120
100
80
60
40
20
0
-20
ppm

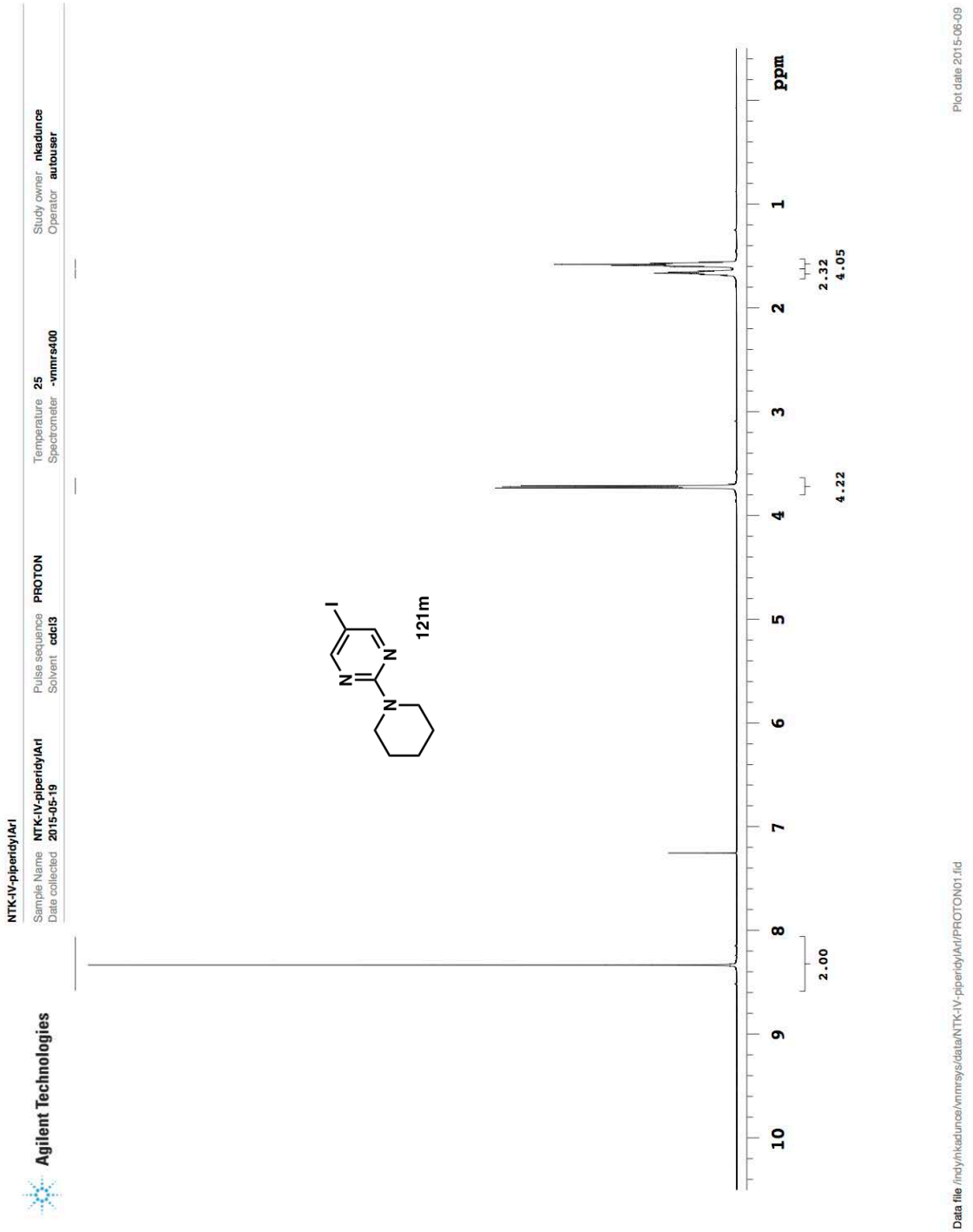

NTK-III-287-UltraBnPHOX_2
Sample Name:
NTK-III-287-UltraBnPHOX_2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkaduncе/vnmrsys/data
Sample directory:
NTK-III-287-UltraBnPHOX_2
FidFile: PROTON01
Pulse Sequence: PROTON (s2pul)
Solvent: cd3cn
Data collected on: Oct 16 2014
Temp. 25.0 C / 298.1 K
Sample #32, Operator: nkaduncе
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 4796.2 Hz
32 repetitions
OBSERVE H1, 300.0917549 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 1 min 59 sec
CF3
CF3
O
N
P
Me
OMe
Me
Me
MeO
Me
L98
ppm
9
8
7
6
5
4
3
2
1
2.28
0.78
1.49
1.29
0.87
3.00
1.98
4.76
0.82
0.89
0.95
8.68

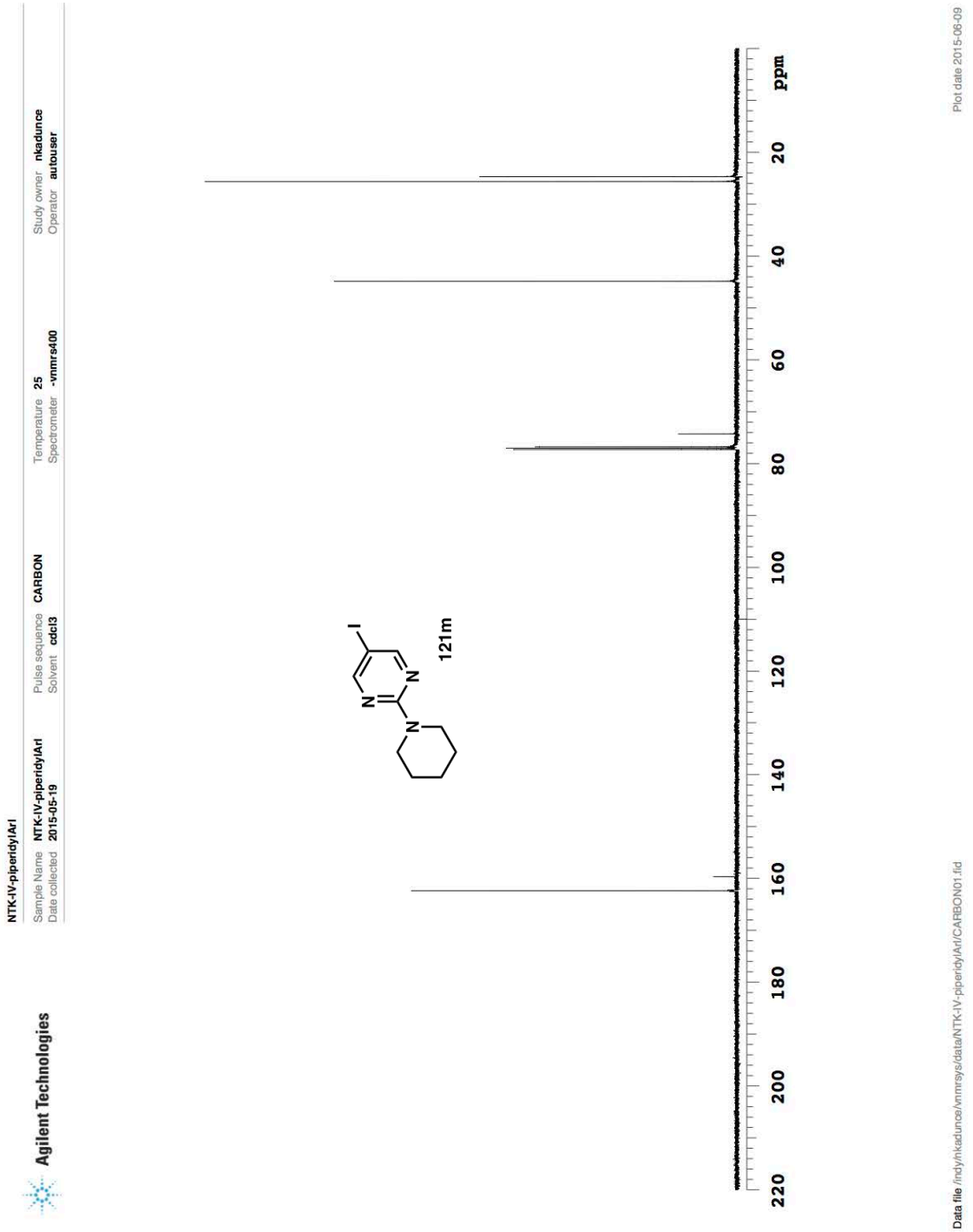
NTK-III-287-UltraBnPHOX_2
Sample Name:
NTK-III-287-UltraBnPHOX_2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-287-UltraBnPHOX_2
FidFile: FLUORINE01
Pulse Sequence: FLUORINE (s2pul)
Solvent: cd3cn
Data collected on: Oct 16 2014
Temp. 25.0 C / 298.1 K
Sample #32, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 30.0 degrees
Acq. time 0.986 sec
Width 64935.1 Hz
16 repetitions
OBSERVE F19, 282.3683689 MHz
DATA PROCESSING
FT size 131072
Total time 0 min 45 sec
CF3
CF3
O
N
P
Me
OMe
Me
Me
MeO
Me
L98
20
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
ppm

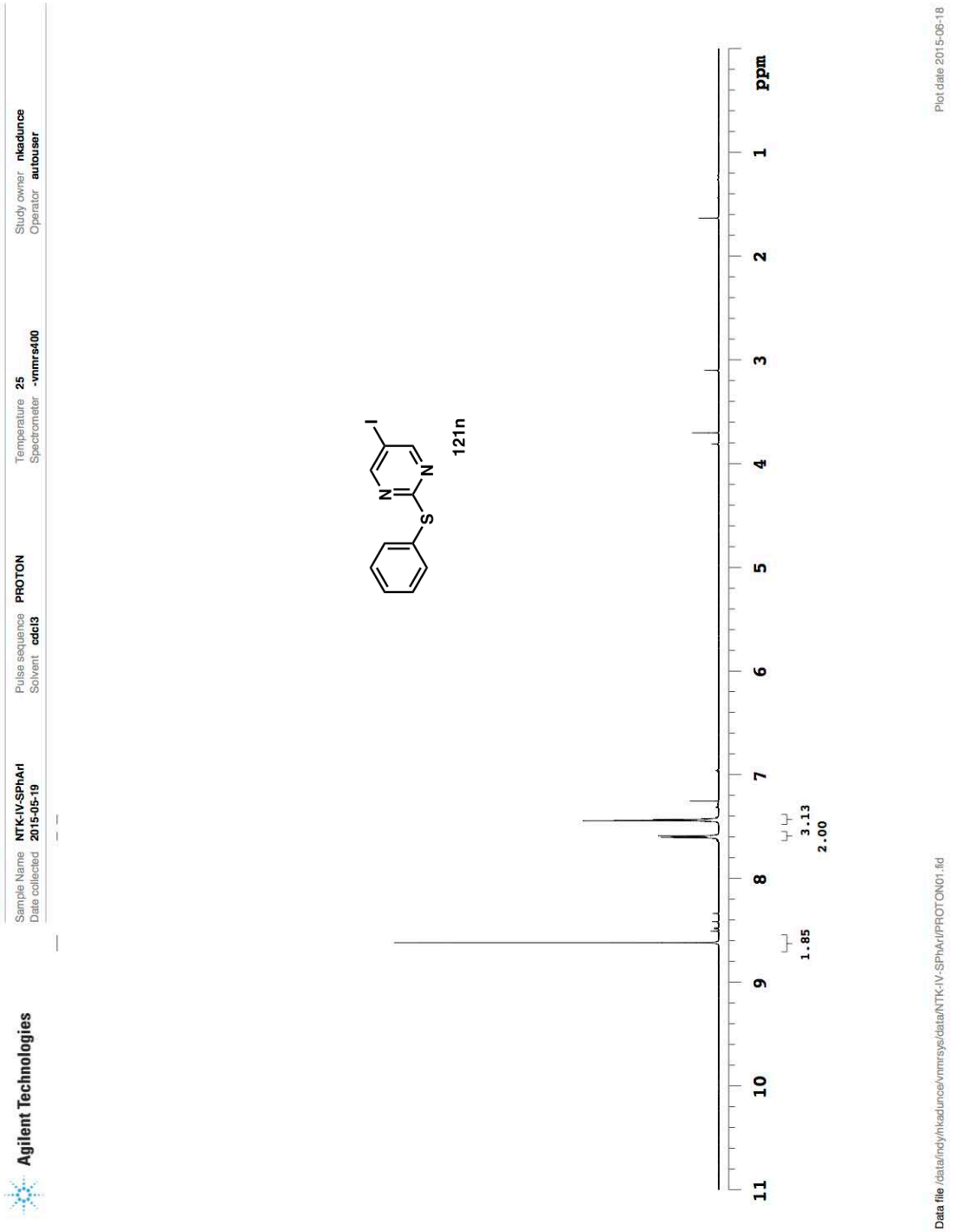
STANDARD PHOSPHORUS PARAMETERS
Sample Name:
NTK-III-287-UltraBnPHOX_2
Data Collected on:
hg3.caltech.edu-mercury300
Archive directory:
/home/nkadunce/vnmrsys/data
Sample directory:
NTK-III-287-UltraBnPHOX_2
FidFile: PHOSPHORUS01
Pulse Sequence: PHOSPHORUS (s2pul)
Solvent: cd3cn
Data collected on: Oct 16 2014
Temp. 25.0 C / 298.1 K
Sample #32, Operator: nkadunce
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.078 sec
Width 30395.1 Hz
128 repetitions
OBSERVE P31, 121.4793691 MHz
DECOUPLE H1, 300.0933075 MHz
Power 34 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 65536
Total time 4 min 43 sec
CF3
CF3
O
N
P
Me
OMe
Me
Me
MeO
Me
L98
200
180
160
140
120
100
80
60
40
20
0
-20
ppm

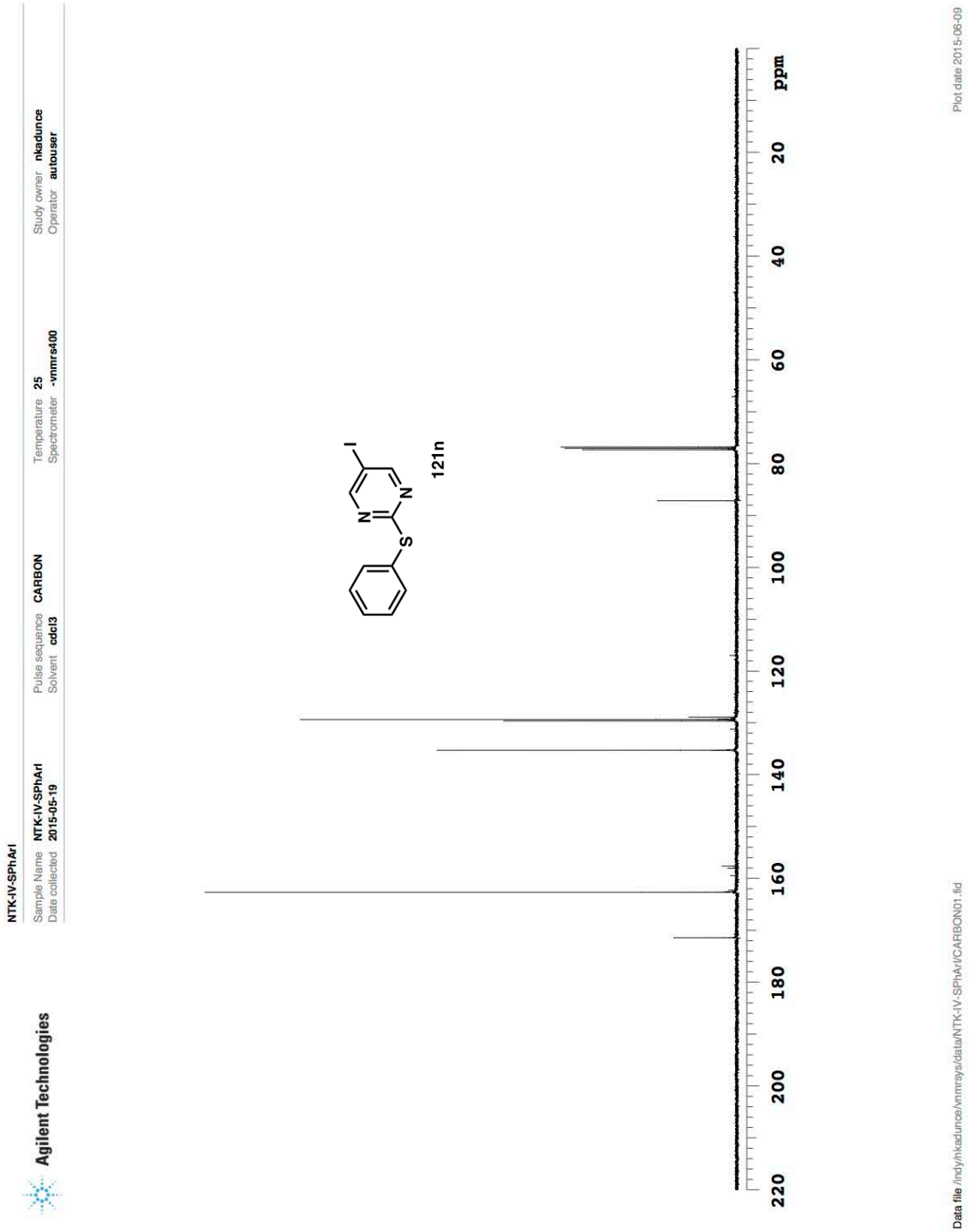

NTK-IV-91-pyrrole
Agilent Technologies
Sample Name NTK-IV-91-pyrrole
Date collected 2015-04-03
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
121I
ppm
1.91
1.20
4.98
2.00
1.13
1.11
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-91-pyrrole/PROTON01.fid
Plot date 2015-05-29

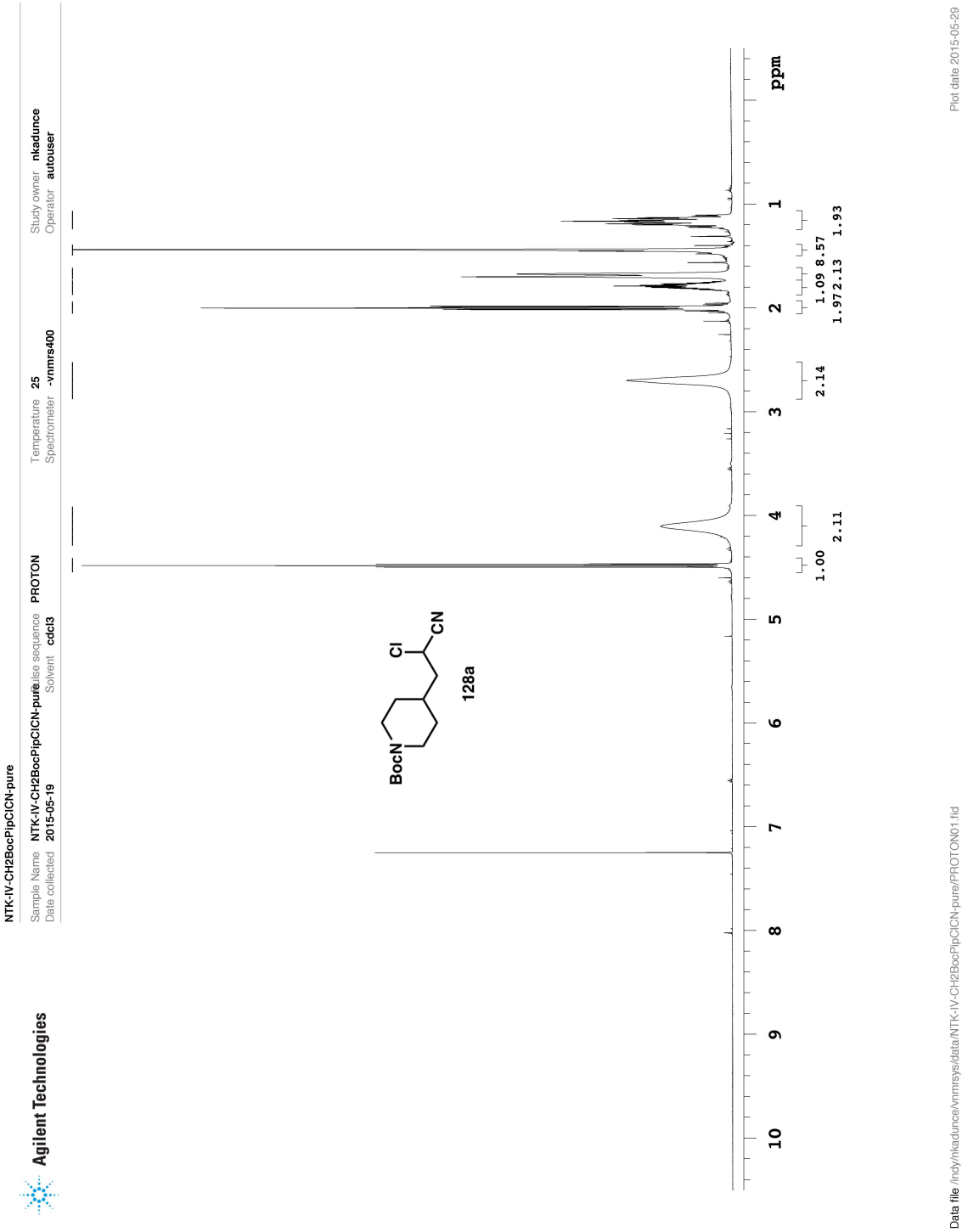

Agilent Technologies
NTK-IV-pyrroloArI
Sample Name NTK-IV-pyrroloArI
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
1211
220 200 180 160 140 120 100 80 60 40 20 ppm
Plot date 2015-06-09
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-pyrroloArI/CARBON01.fid

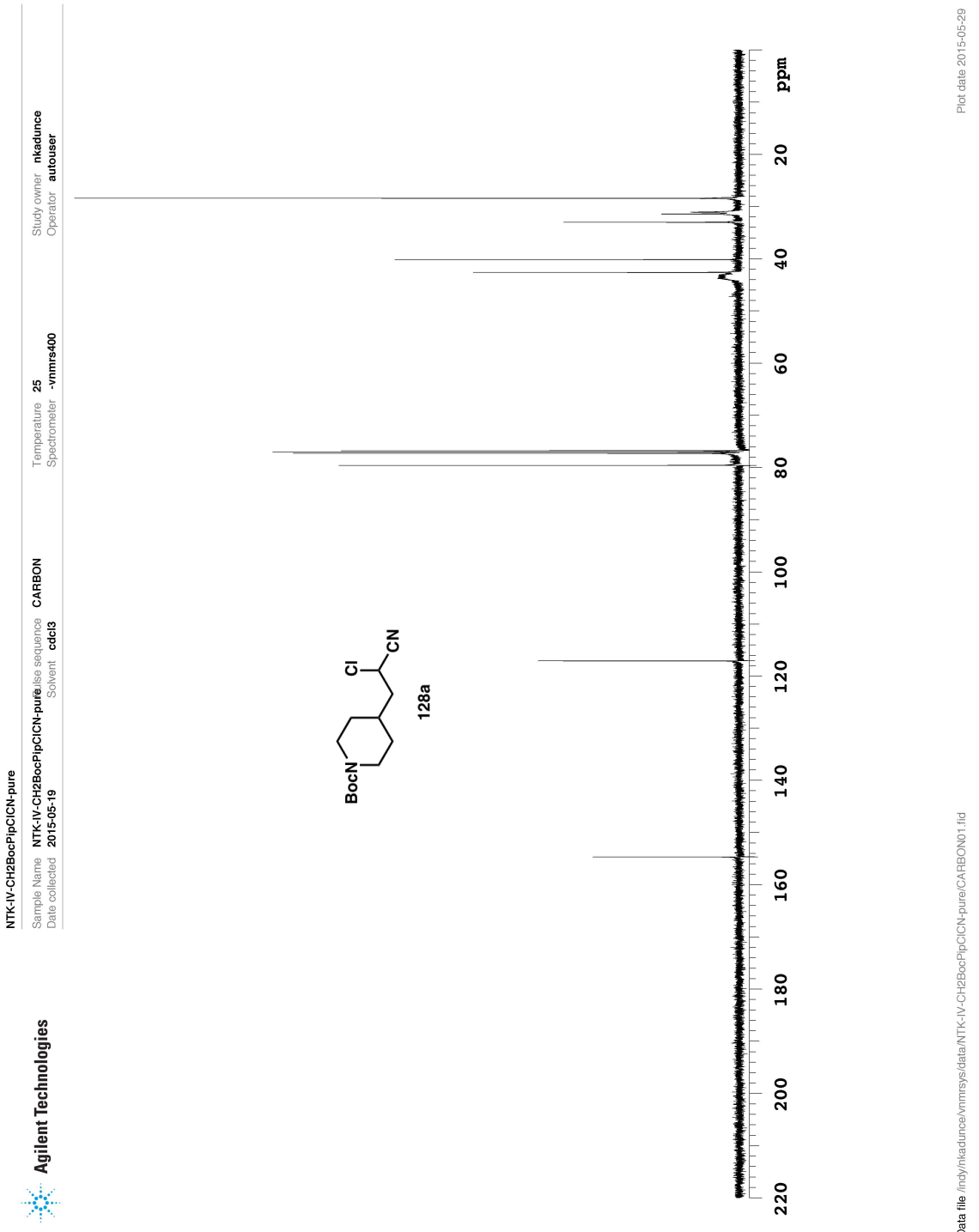

NTK-IV-piperidylArI
Sample Name NTK-IV-piperidylArI
Date collected 2015-05-19
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
121m
ppm
2.00
4.22
2.32
4.05
Agilent Technologies
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-piperidylArI/PROTON01.fid
Plot date 2015-06-09

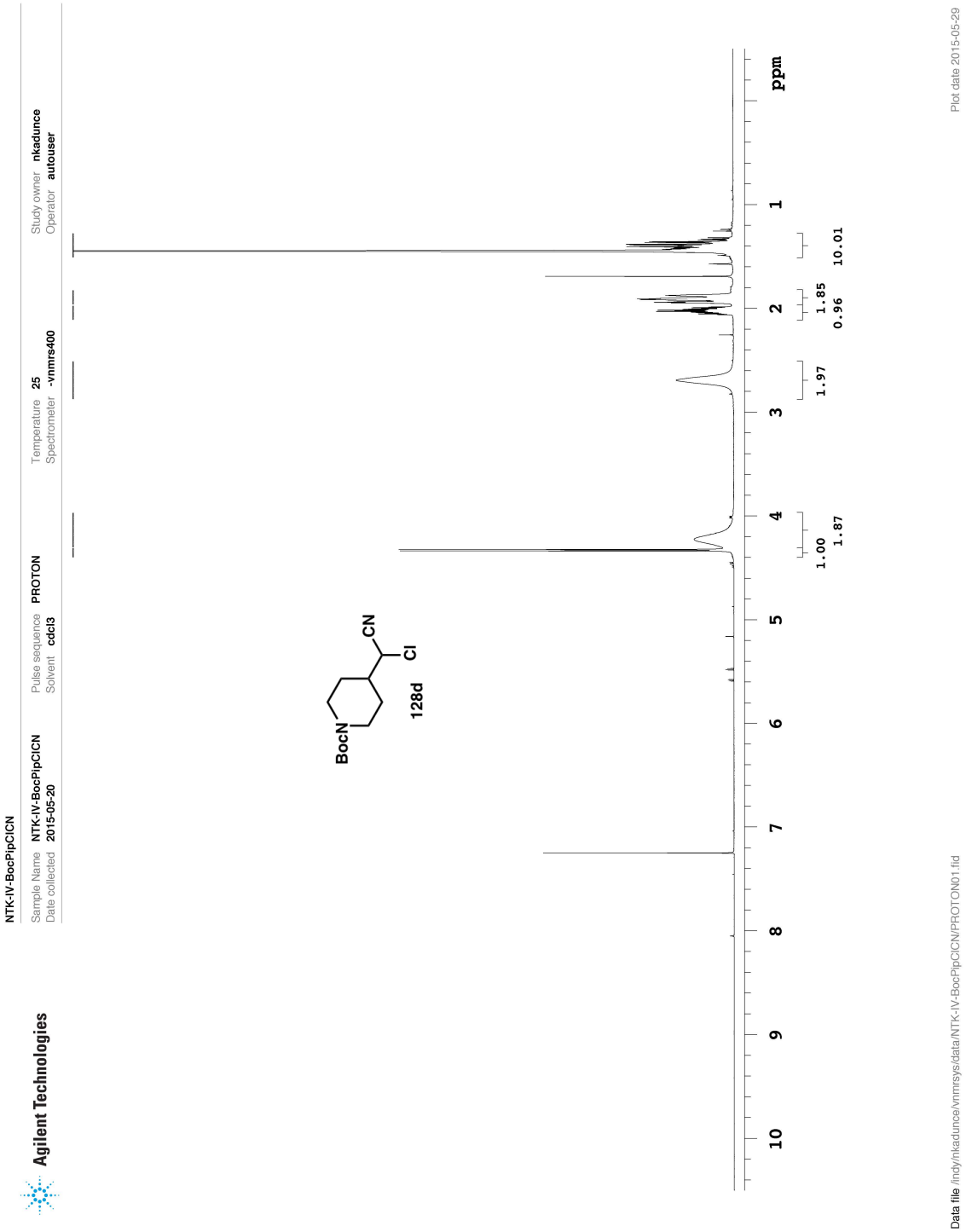

NTK-iV-piperidylArI
Sample Name NTK-iV-piperidylArI
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
121m
220
200
180
160
140
120
100
80
60
40
20
ppm
Agilent Technologies
Plot date 2015-06-09
Data file /mdy/nkadunce/vnmrsys/data/NTK-iV-piperidylArI/CARBON01.fid

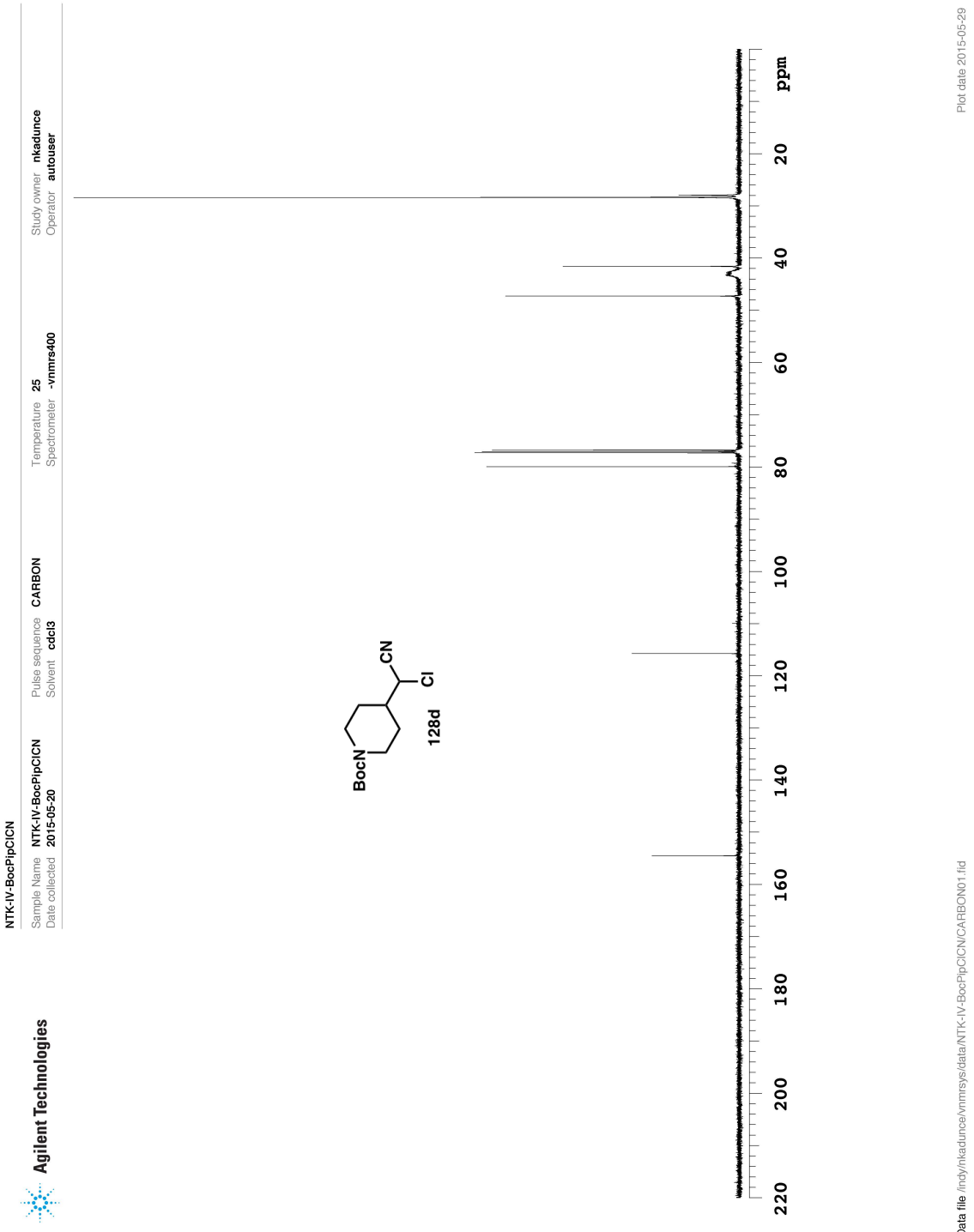

NTK-IV-SPhArI
Agilent Technologies
Sample Name NTK-IV-SPhArI
Date collected 2015-05-19
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
121n
1.85
3.13
2.00
ppm
Plot date 2015-06-18
Data file /data/mdy/nkadunce/vnmrsys/data/NTK-IV-SPhArI/PROTON01.fid

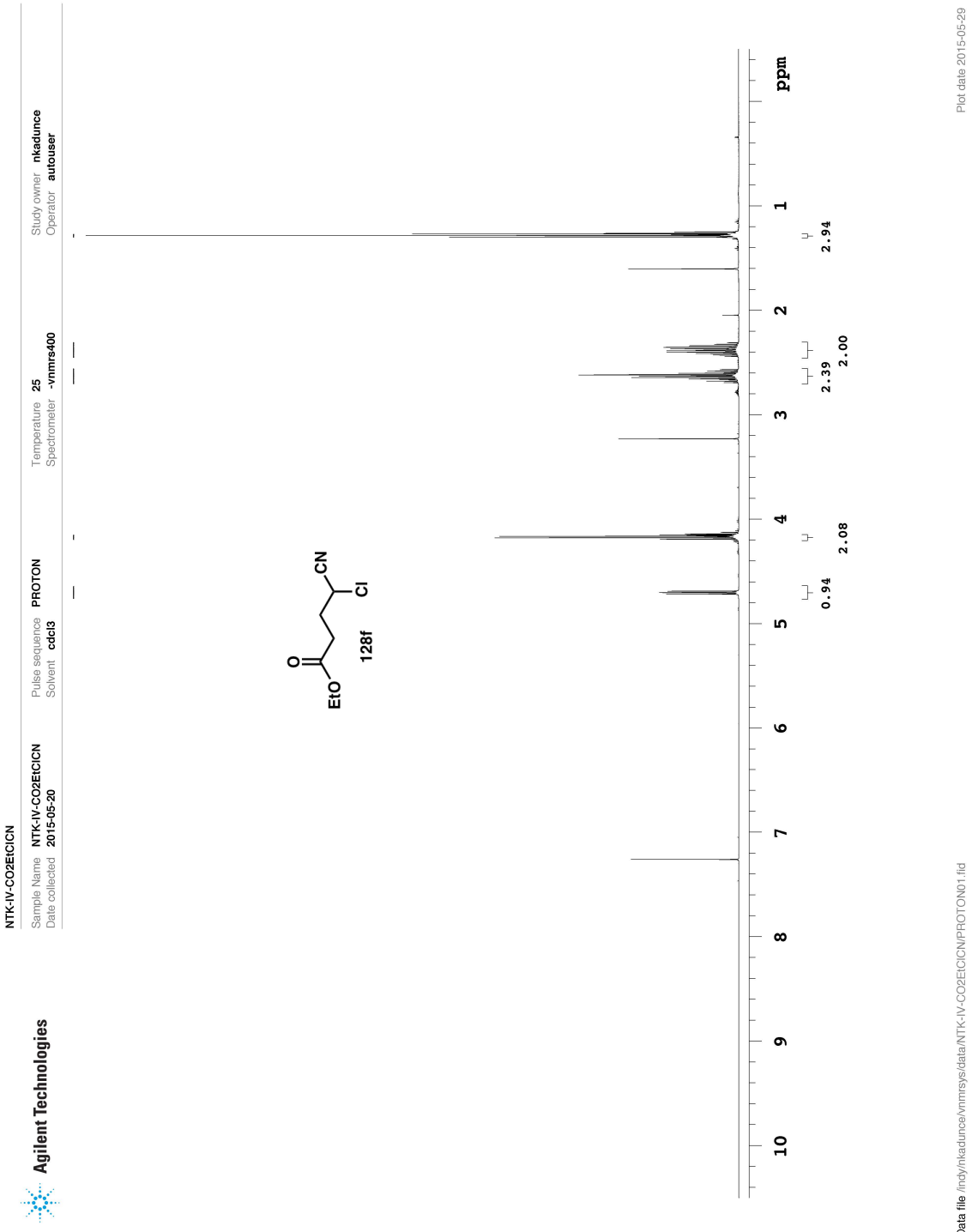

NTK-IV-SPhArI
Agilent Technologies
Sample Name NTK-IV-SPhArI
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
121n
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /ndy/nkadunce/vnmrsys/data/NTK-IV-SPhArI/CARBON01.fid
Plot date 2015-06-09


NTK-IV-CH2BocPipClCN-pure
Agilent Technologies
Sample Name NTK-IV-CH2BocPipClCN-pure
Date collected 2015-05-19
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
Cl
CN
128a
ppm
1.00
2.11
2.14
1.09
8.57
1.97
2.13
1.93
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CH2BocPipClCN-pure/PROTON01.fid
Plot date 2015-05-29


NTK-IV-CH2BocPipClCN-pure
Agilent Technologies
Sample Name NTK-IV-CH2BocPipClCN-pure
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
Cl
CN
128a
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CH2BocPipClCN-pure/CARBON01.fid
Plot date 2015-05-29


NTK-IV-BocPipClCN
Agilent Technologies
Sample Name NTK-IV-BocPipClCN
Date collected 2015-05-20
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
CN
Cl
128d
1.00
1.87
1.97
1.85
0.96
10.01
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-BocPipClCN/PROTON01.fid
Plot date 2015-05-29

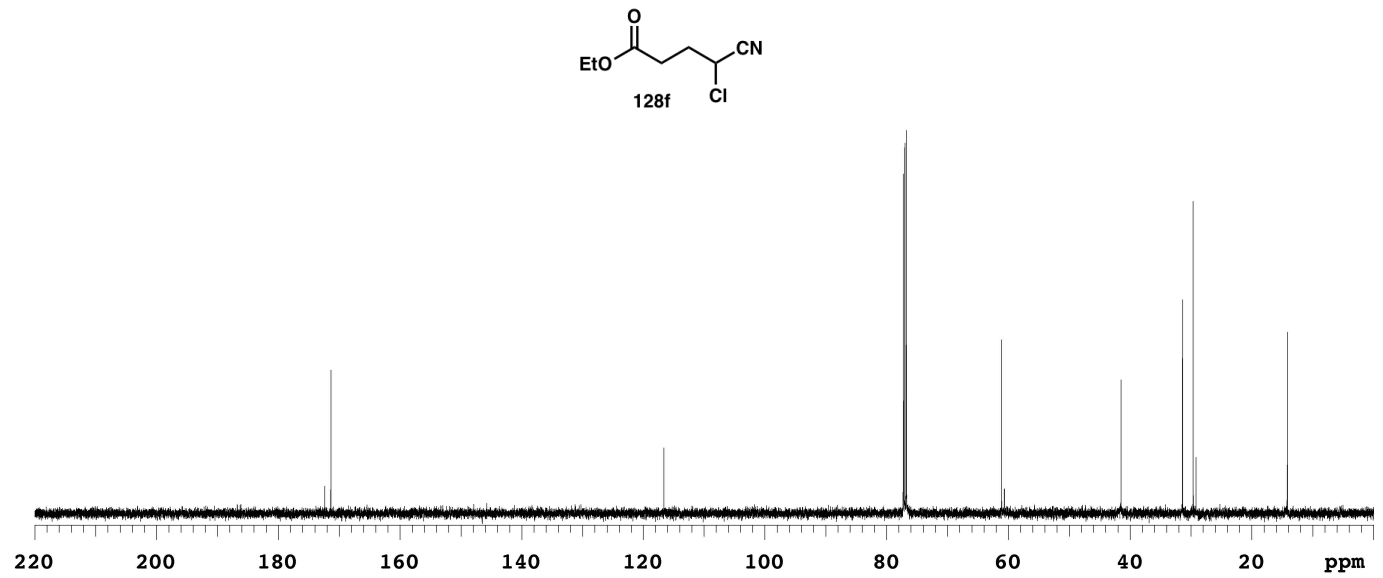

NTK-IV-BocPipClCN
Agilent Technologies
Sample Name NTK-IV-BocPipClCN
Date collected 2015-05-20
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
CN
Cl
128d
220 200 180 160 140 120 100 80 60 40 20 ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-BocPipClCN/CARBON01.fid
Plot date 2015-05-29


NTK-IV-CO2EtClCN
Agilent Technologies
Sample Name NTK-IV-CO2EtClCN
Date collected 2015-05-20
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
EtO
O
CN
Cl
128f
10 9 8 7 6 5 4 3 2 1 ppm
0.94
2.08
2.39
2.00
2.94
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CO2EtClCN/PROTON01.fid
Plot date 2015-05-29

Agilent Technologies

NTK-IV-CO2EtClCN

Sample Name	NTK-IV-CO2EtClCN	Pulse sequence	CARBON	Temperature	25	Study owner	nkadunce
Date collected	2015-05-20	Solvent	cdcl3	Spectrometer	-vnmrs400	Operator	autouser



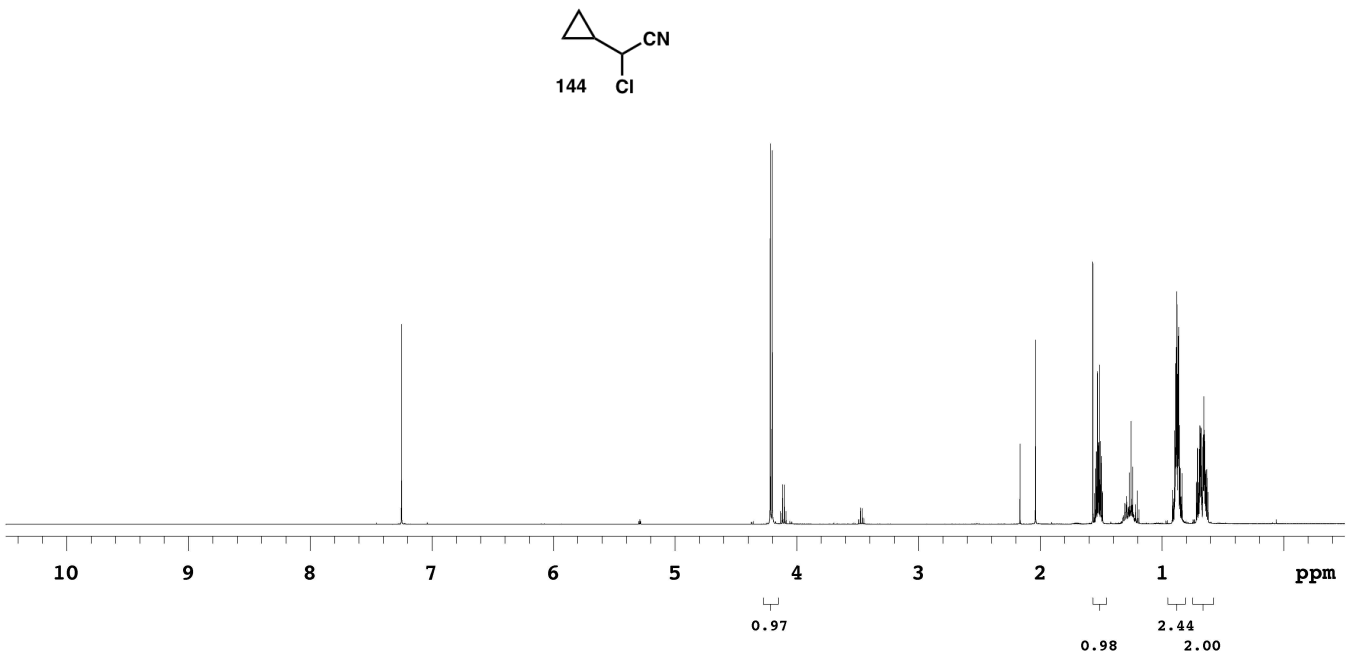
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Plot date 2015-05-29

Agilent Technologies

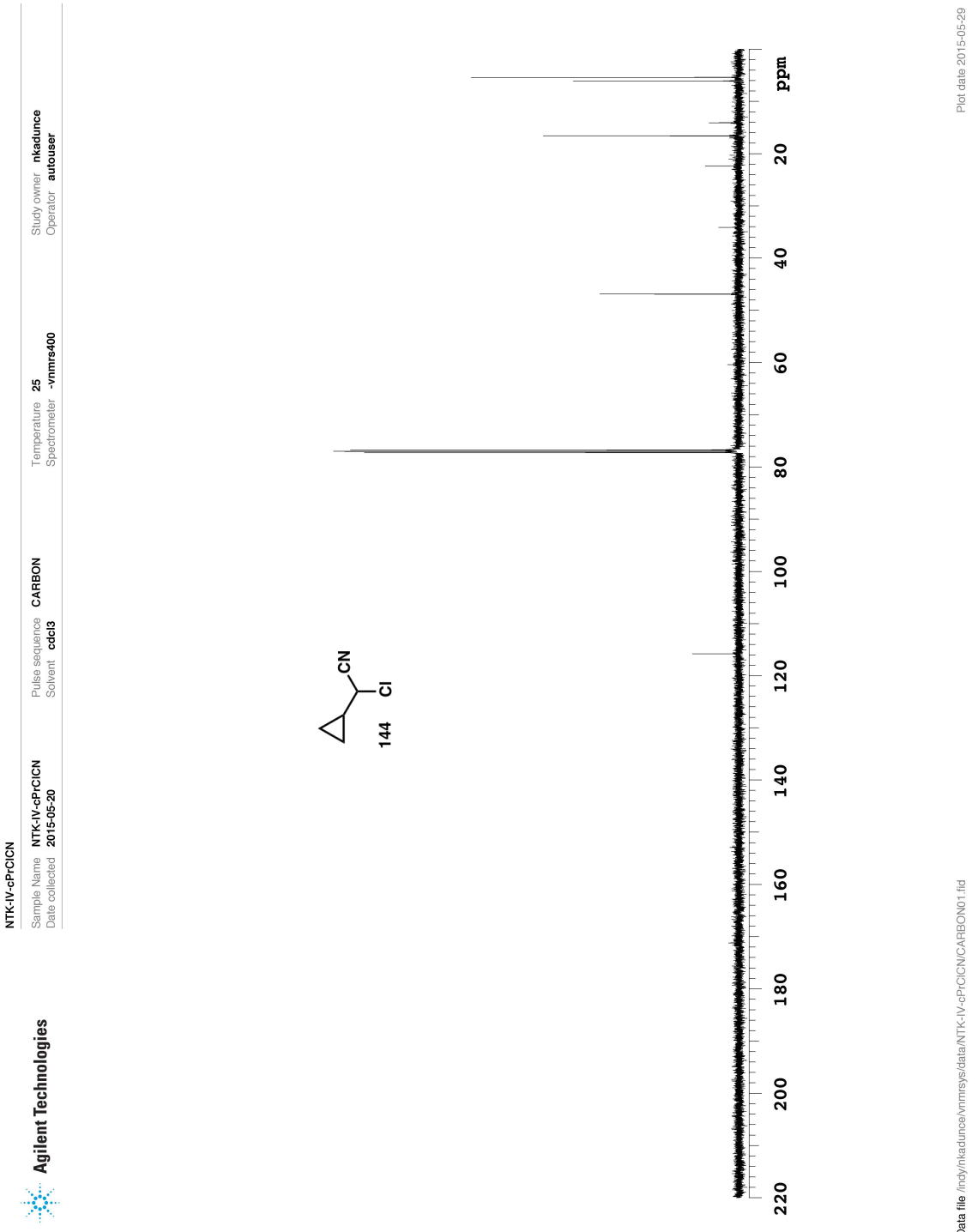
NTK-IV-cPrClCN

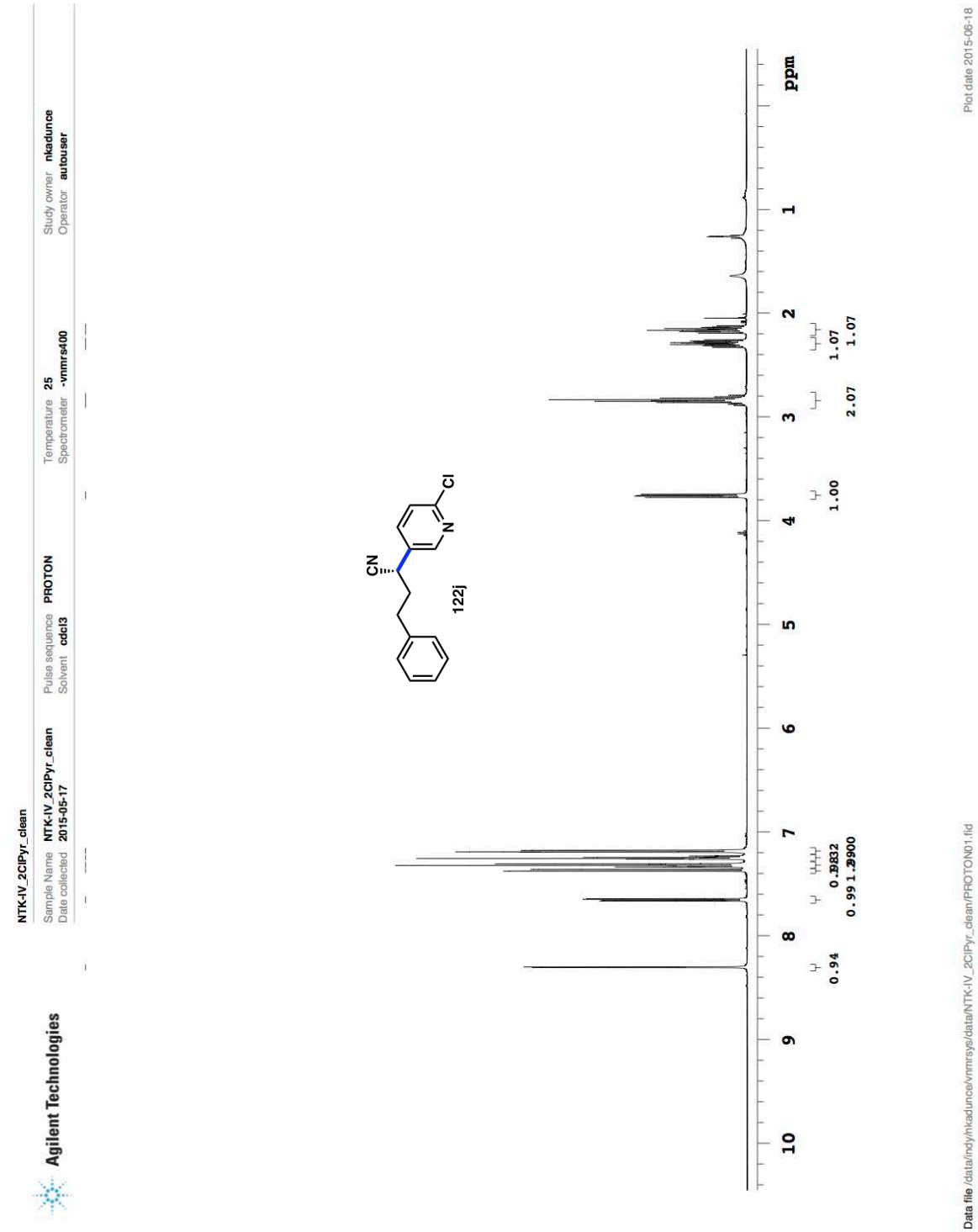
Sample Name	**NTK-IV-cPrClCN**	Pulse sequence	**PROTON**	Temperature	**25**	Study owner	**nkadunce**
Date collected	**2015-05-20**	Solvent	**cdcl3**	Spectrometer	**-vnmrs400**	Operator	**autouser**

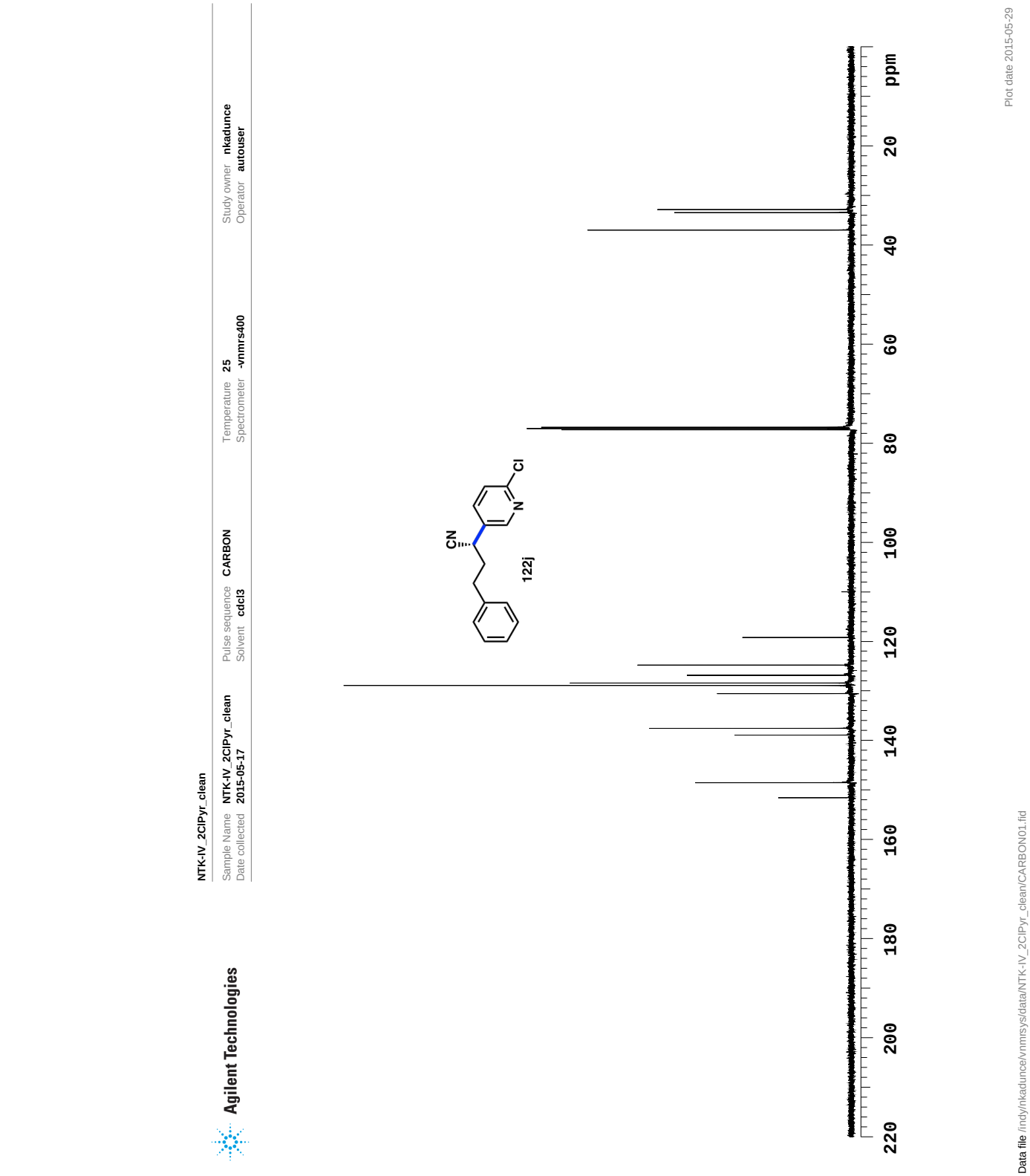


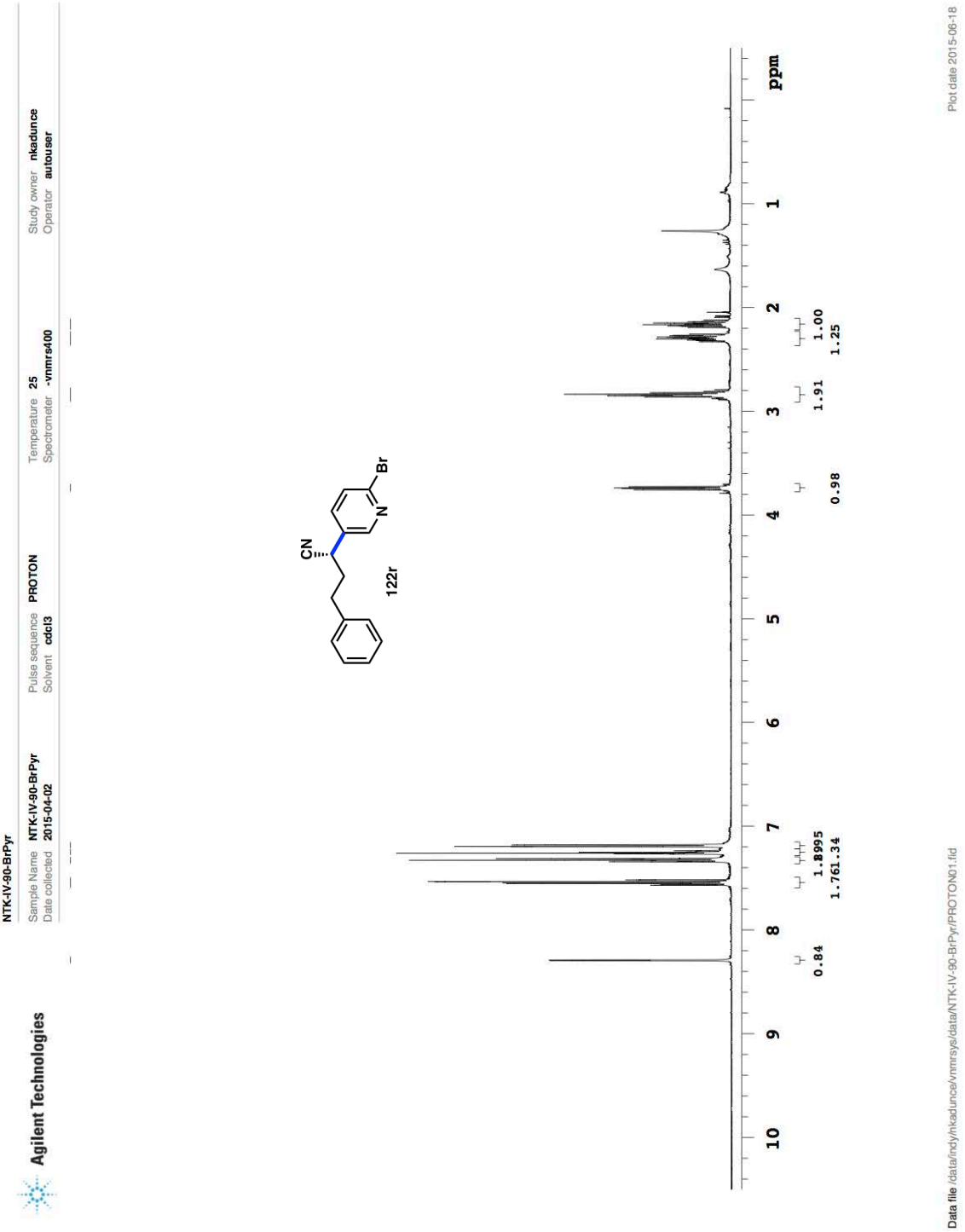
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-cPrClCN/PROTON01.fid

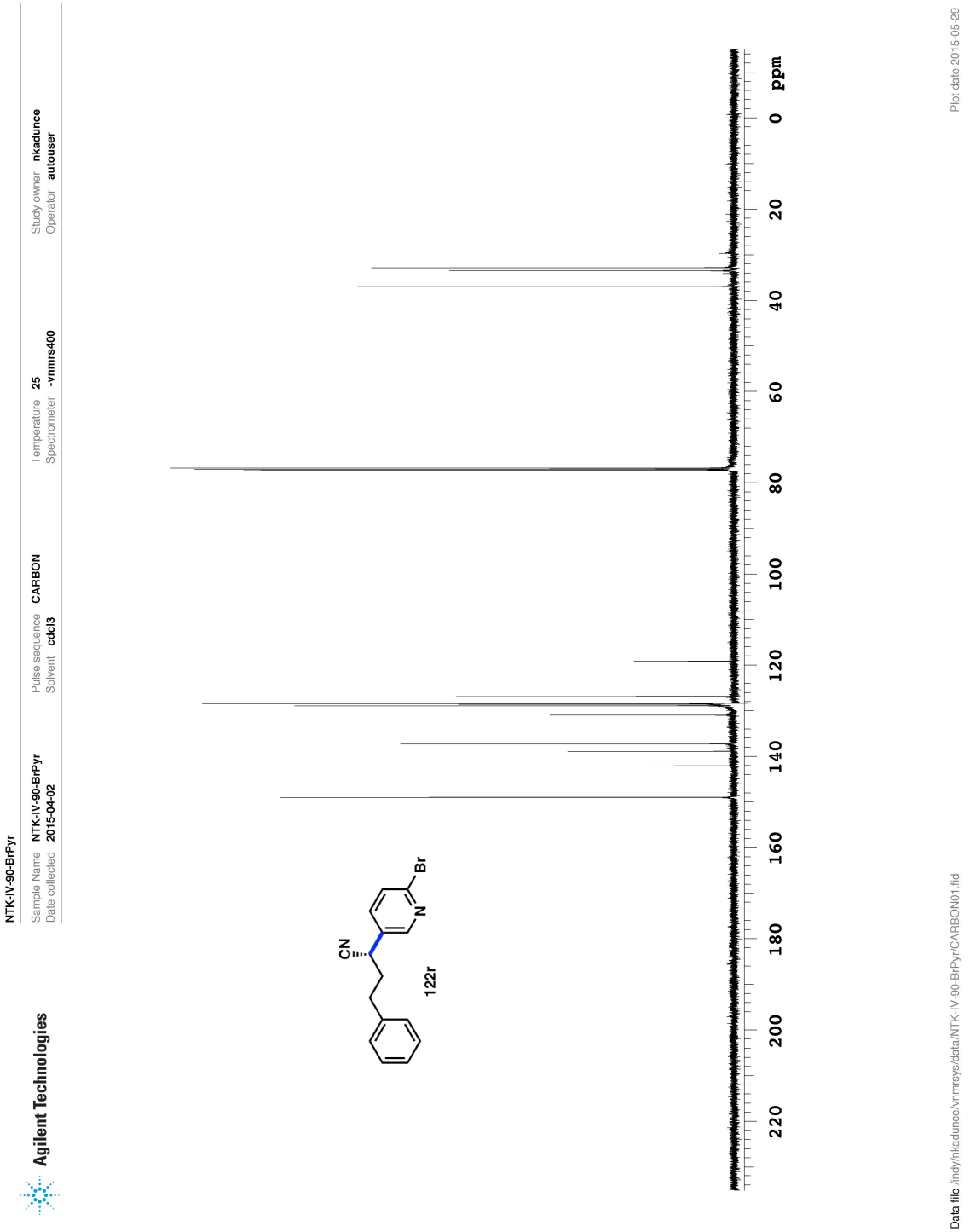
Plot date 2015-05-29

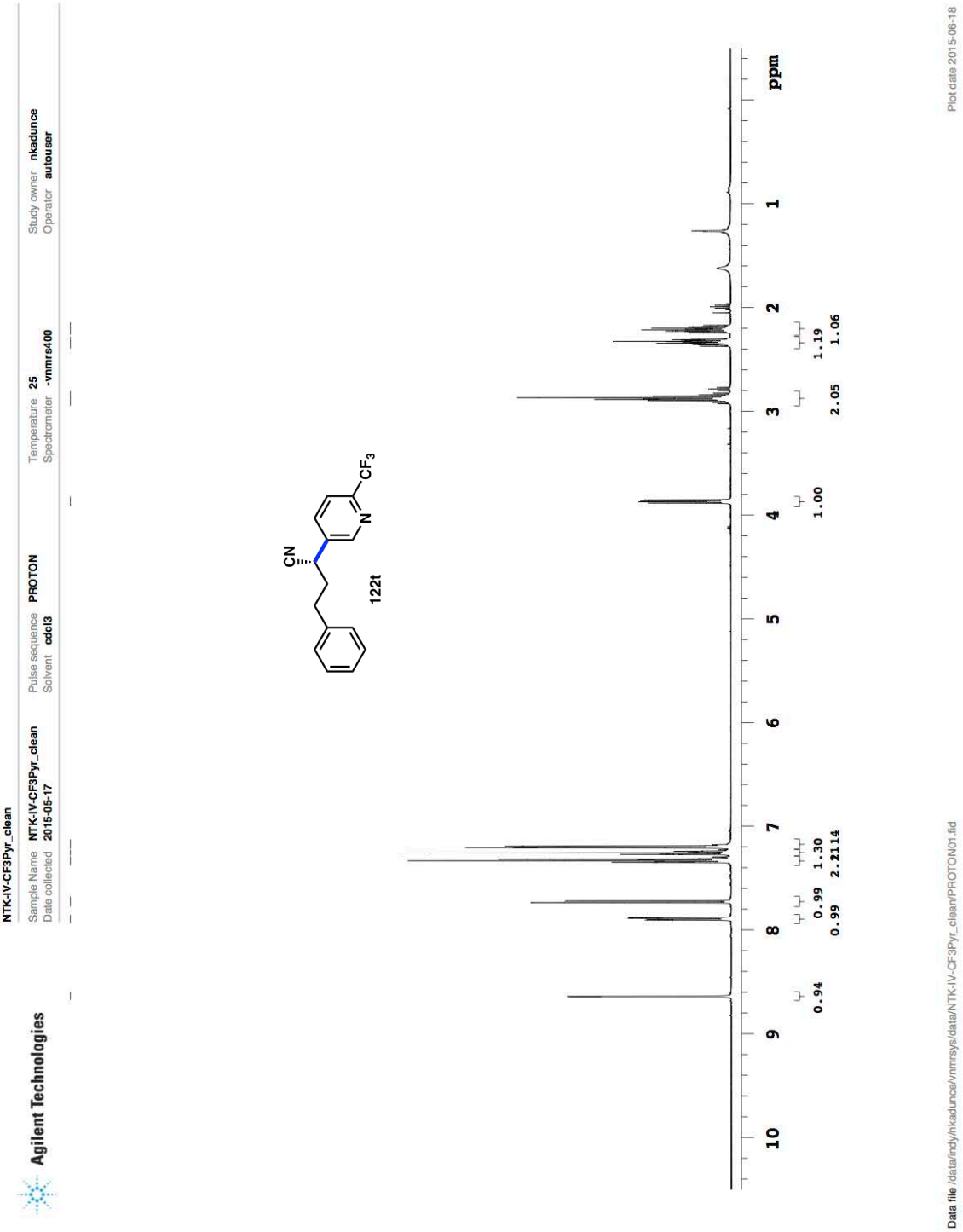

NTK-IV-cPrClCN
Agilent Technologies
Sample Name NTK-IV-cPrClCN
Date collected 2015-05-20
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
144
220 200 180 160 140 120 100 80 60 40 20 ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-cPrClCN/CARBON01.fid
Plot date 2015-05-29

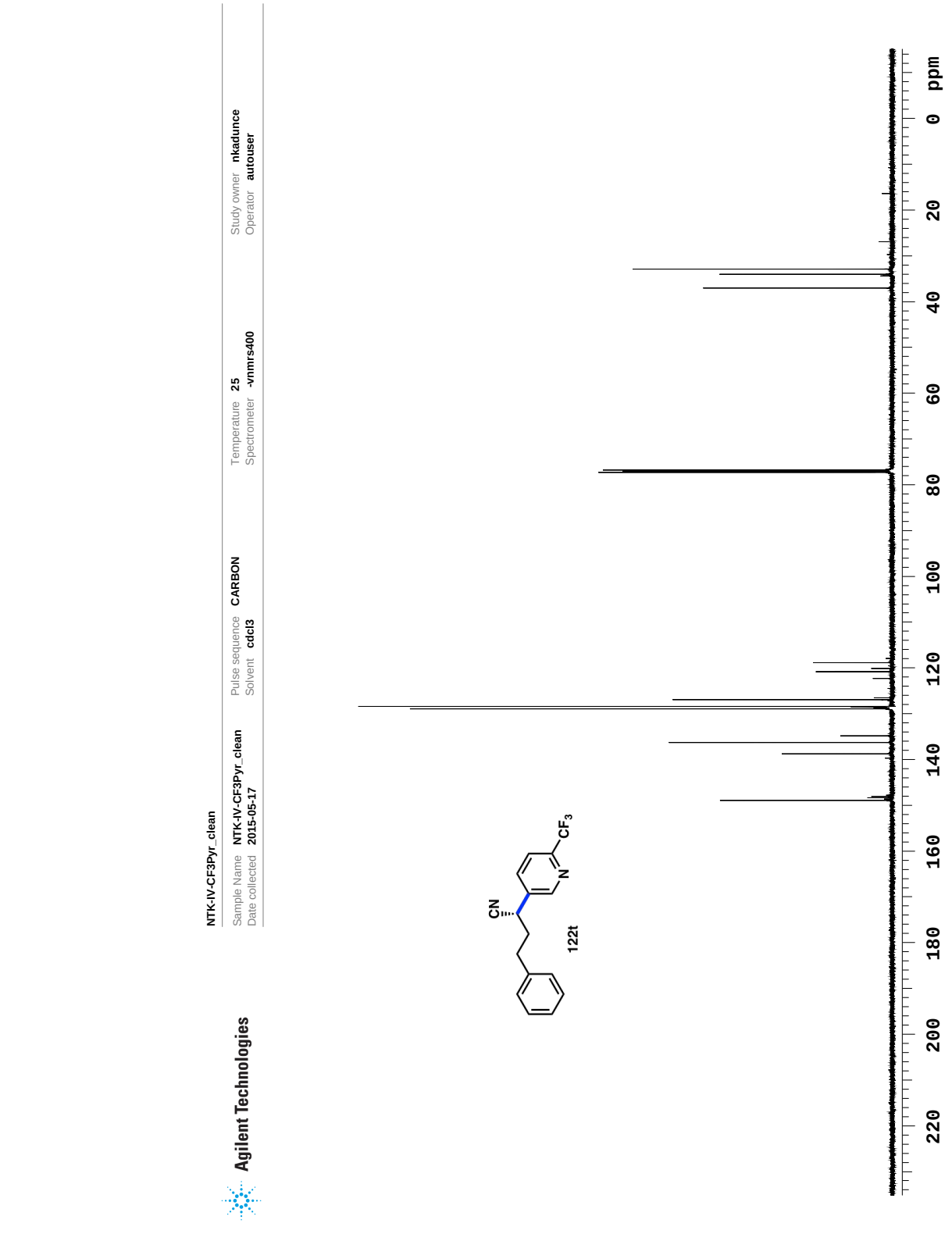

NTK-IV_2ClPyr_clean
Agilent Technologies
Sample Name NTK-IV_2ClPyr_clean
Date collected 2015-05-17
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
N
122j
ppm
10
9
8
7
6
5
4
3
2
1
0.94
0.99
1.00
2.07
1.07
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV_2ClPyr_clean/PROTON01.fid
Plot date 2015-06-18

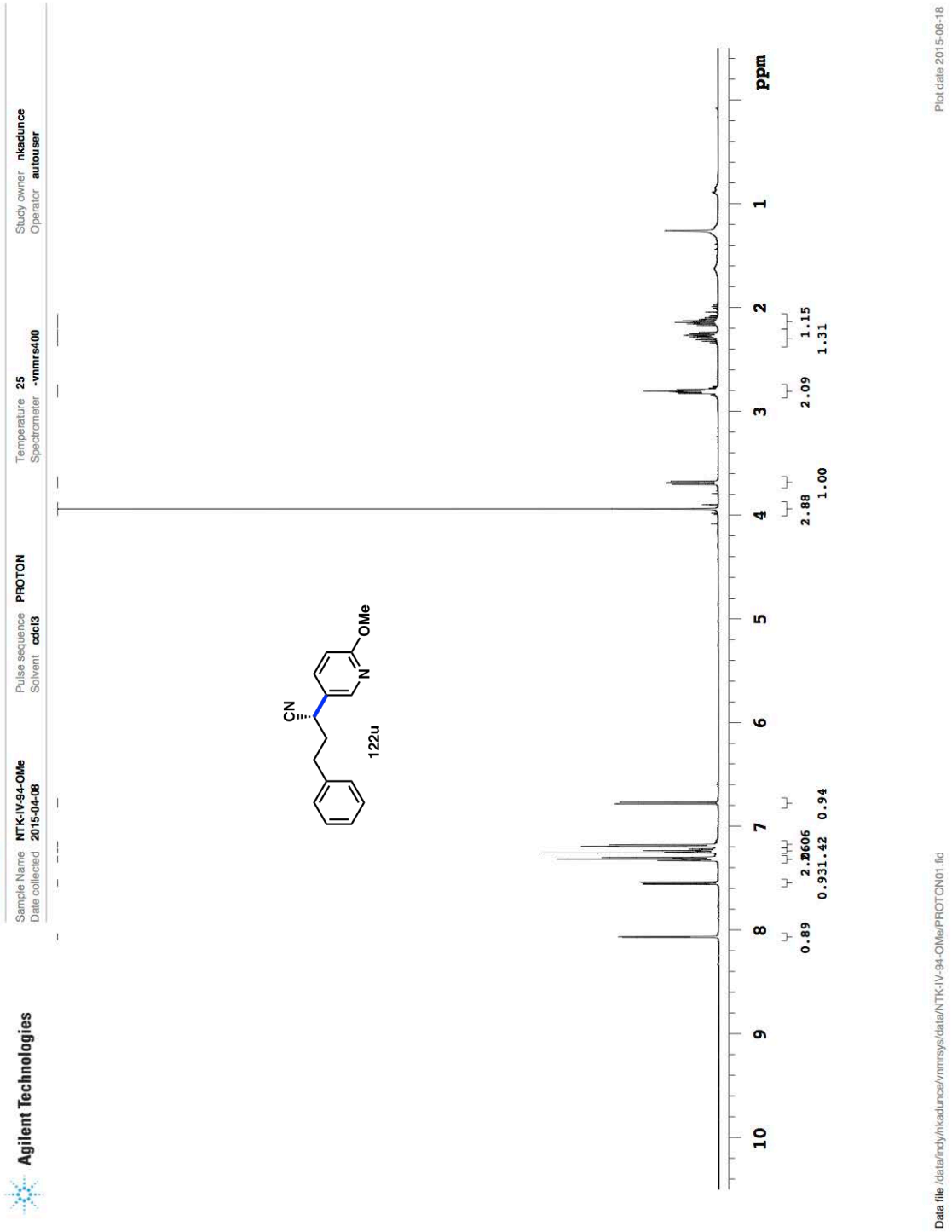

NTK-IV_2ClPyr_clean
Agilent Technologies
Sample Name NTK-IV_2ClPyr_clean
Date collected 2015-05-17
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
N
122j
220 200 180 160 140 120 100 80 60 40 20 ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV_2ClPyr_clean/CARBON01.fid

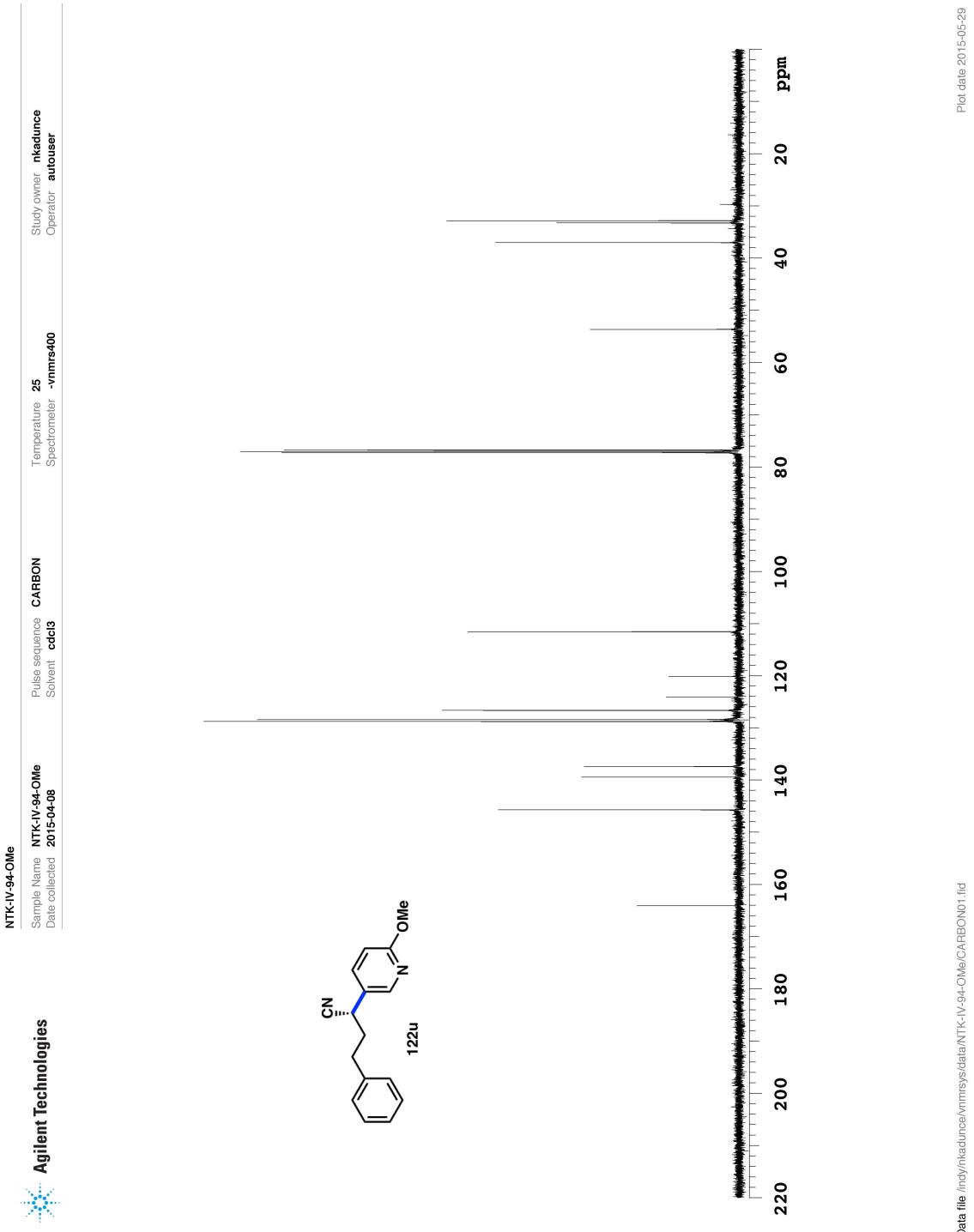

NTK-IV-90-BrPyr
Agilent Technologies
Sample Name NTK-IV-90-BrPyr
Date collected 2015-04-02
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Br
N
122r
10
9
8
7
6
5
4
3
2
1
ppm
0.84
1.8995
1.761.34
0.98
1.91
1.00
1.25
Data file /data/mdy/nkadunce/vnmrsys/data/NTK-IV-90-BrPyr/PROTON01.fid
Plot date 2015-06-18

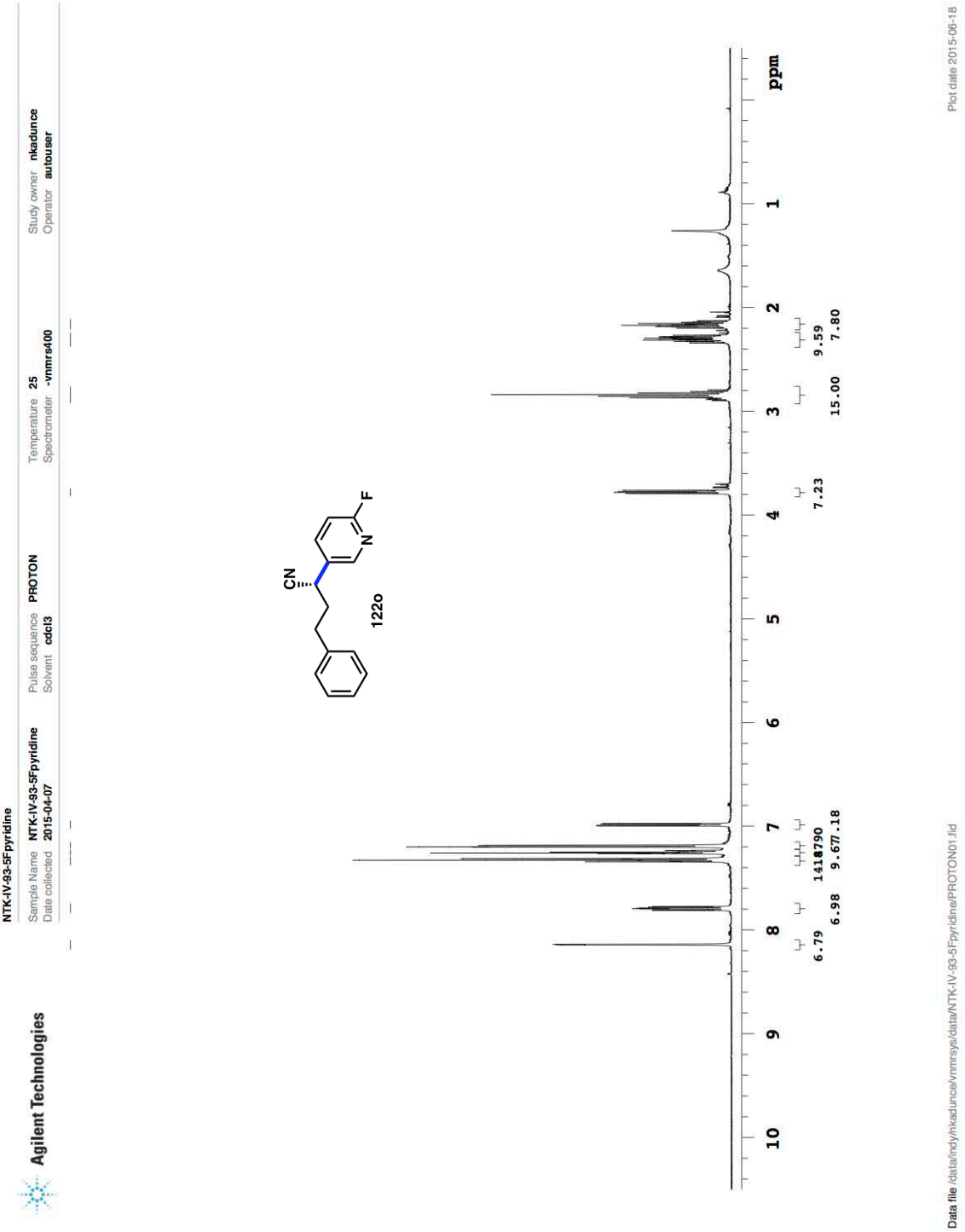

NTK-IV-90-BrPyr
Agilent Technologies
Sample Name NTK-IV-90-BrPyr
Date collected 2015-04-02
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Br
N
122r
220 200 180 160 140 120 100 80 60 40 20 0 ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-90-BrPyr/CARBON01.fid
Plot date 2015-05-29

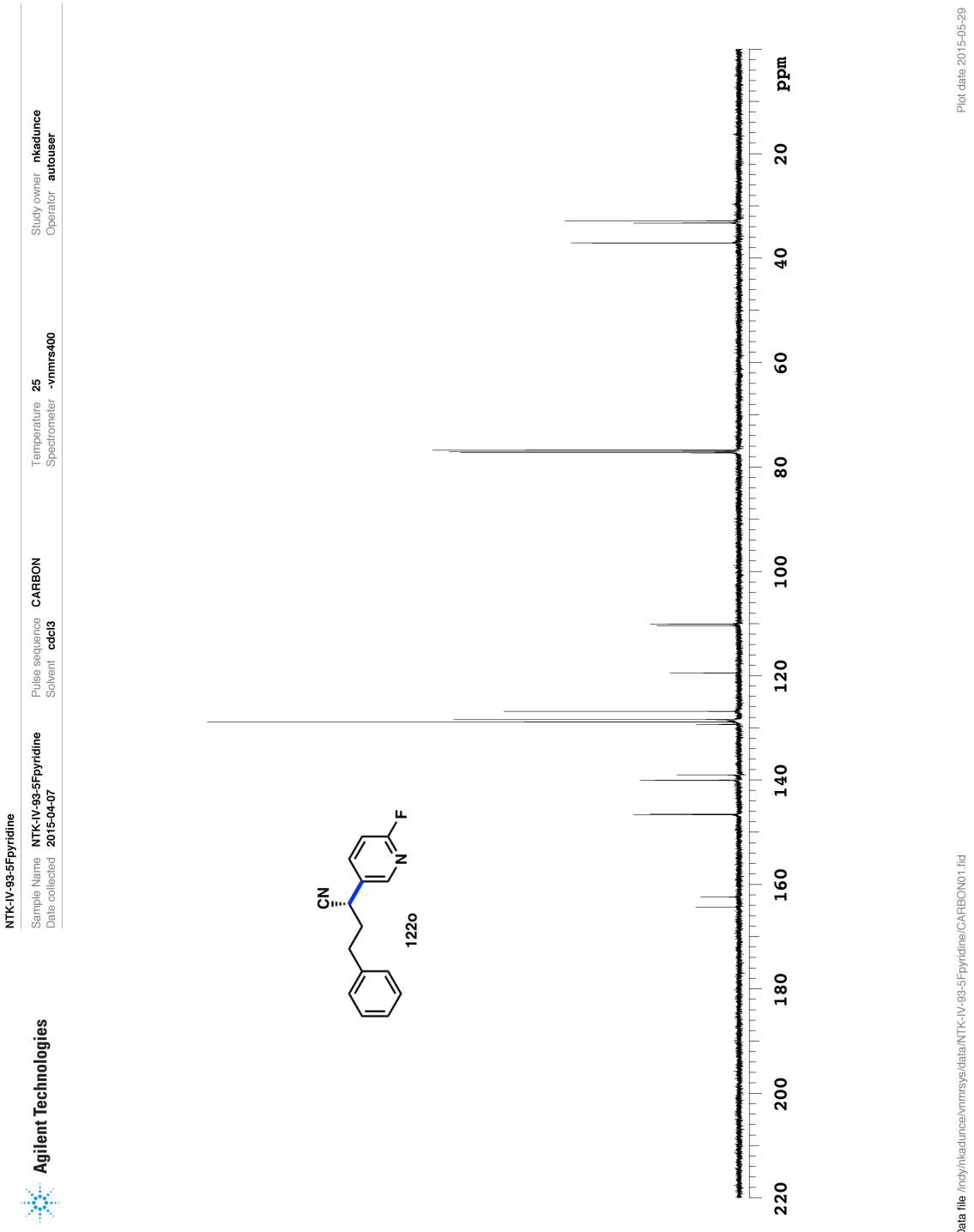

NTK-IV-CF3Pyr_clean
Agilent Technologies
Sample Name NTK-IV-CF3Pyr_clean
Date collected 2015-05-17
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
CF3
N
122t
ppm
10
9
8
7
6
5
4
3
2
1
0.94
0.99
1.30
0.99
2.2114
1.00
2.05
1.19
1.06
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-CF3Pyr_clean/PROTON01.fid
Plot date 2015-06-18

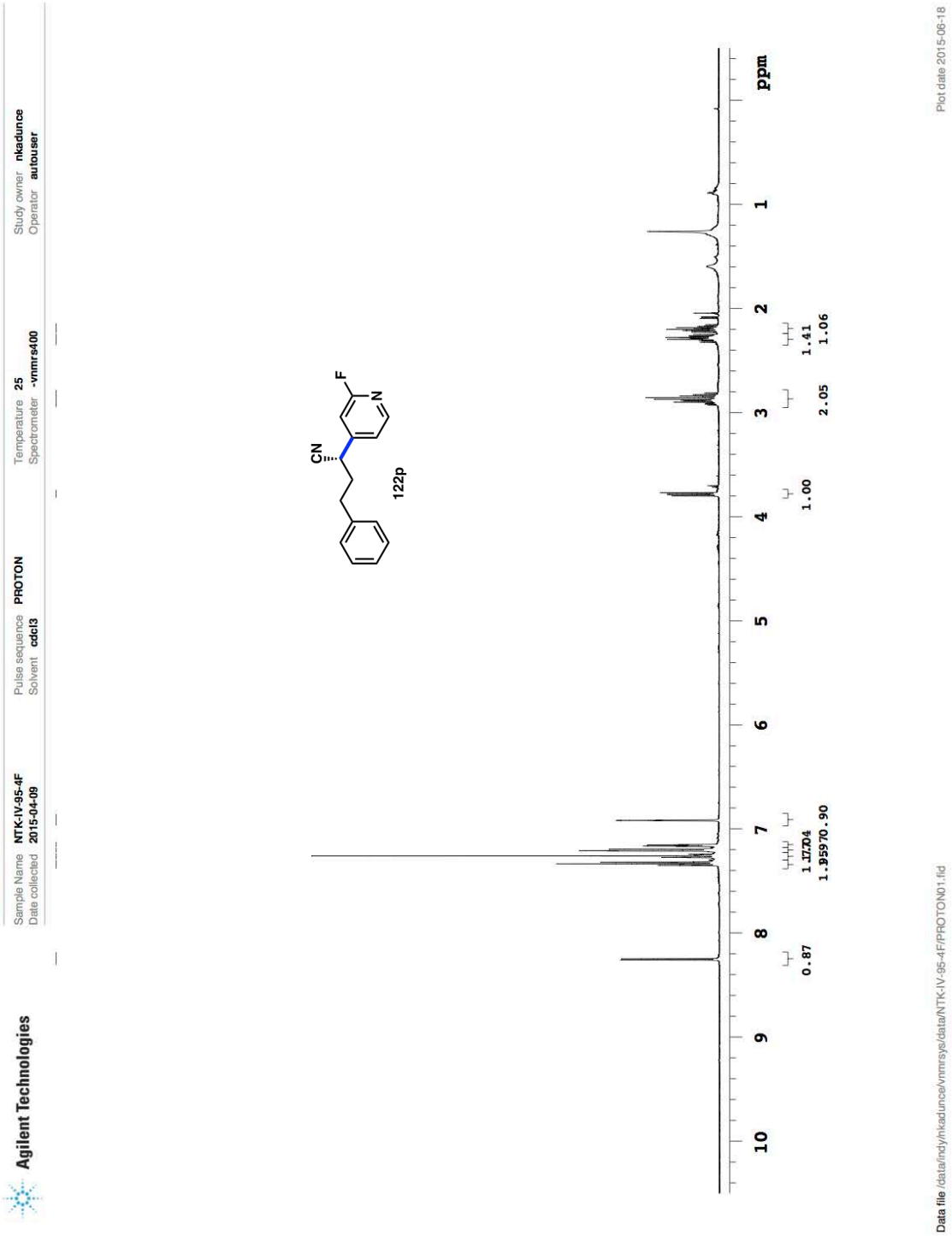

NTK-IV-CF3Pyr_clean
Agilent Technologies
Sample Name NTK-IV-CF3Pyr_clean
Date collected 2015-05-17
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
CF3
122t
220 200 180 160 140 120 100 80 60 40 20 0 ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CF3Pyr_clean/CARBON01.fid
Plot date 2015-05-29

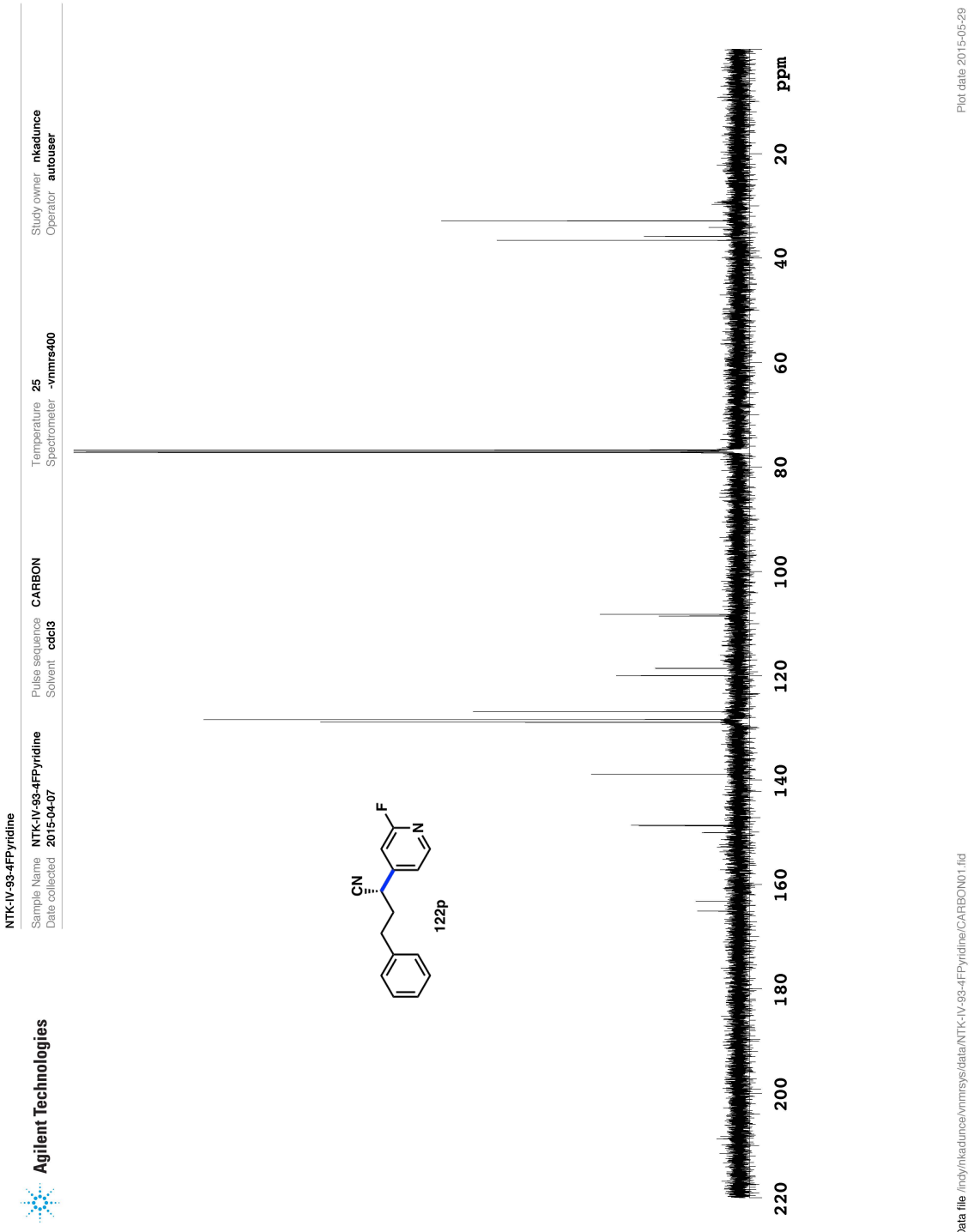

NTK-IV-94-OMe
Agilent Technologies
Sample Name NTK-IV-94-OMe
Date collected 2015-04-08
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
OMe
N
122u
ppm
0.89
2.88
2.09
1.15
1.31
1.00
0.94
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-94-OMe/PROTON01.fid
Plot date 2015-06-18

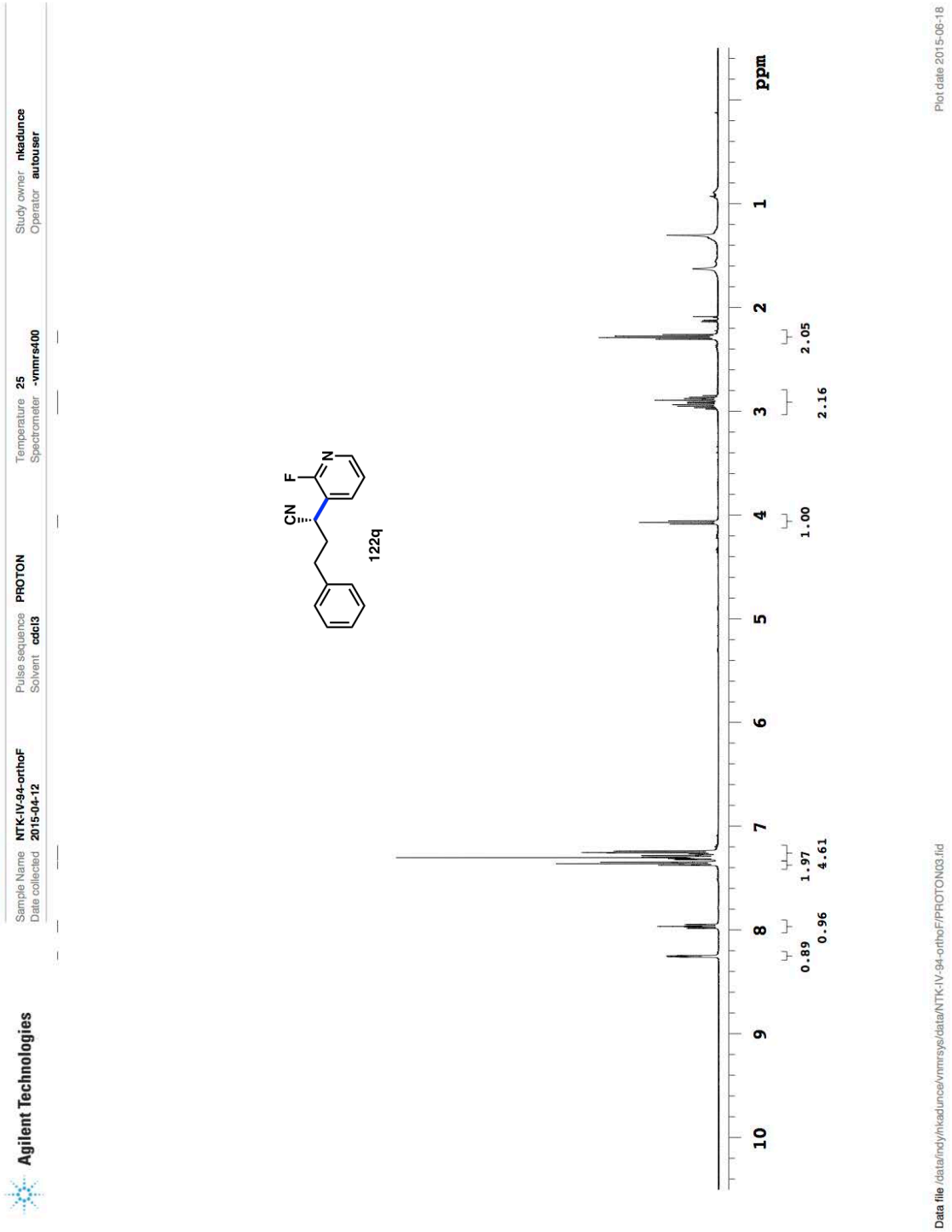

NTK-IV-94-OMe
Agilent Technologies
Sample Name NTK-IV-94-OMe
Date collected 2015-04-08
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
OMe
N
122u
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-94-OMe/CARBON01.fid
Plot date 2015-05-29

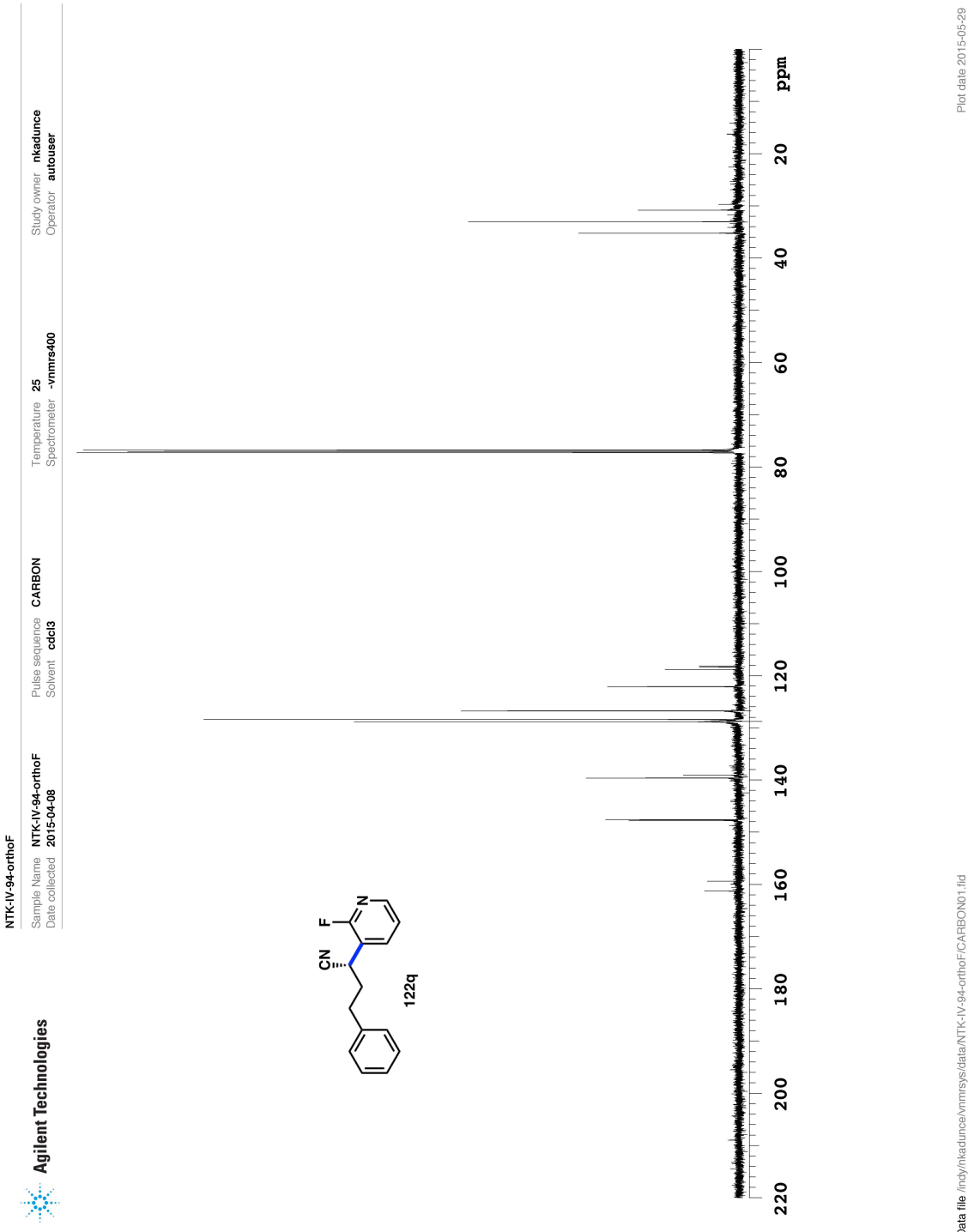

NTK-IV-93-5Fpyridine
Agilent Technologies
Sample Name NTK-IV-93-5Fpyridine
Date collected 2015-04-07
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
F
N
122o
ppm
10
9
8
7
6
5
4
3
2
1
6.79
6.98
1418790
9.677.18
7.23
15.00
9.59
7.80
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-93-5Fpyridine/PROTON01.fid
Plot date 2015-06-18

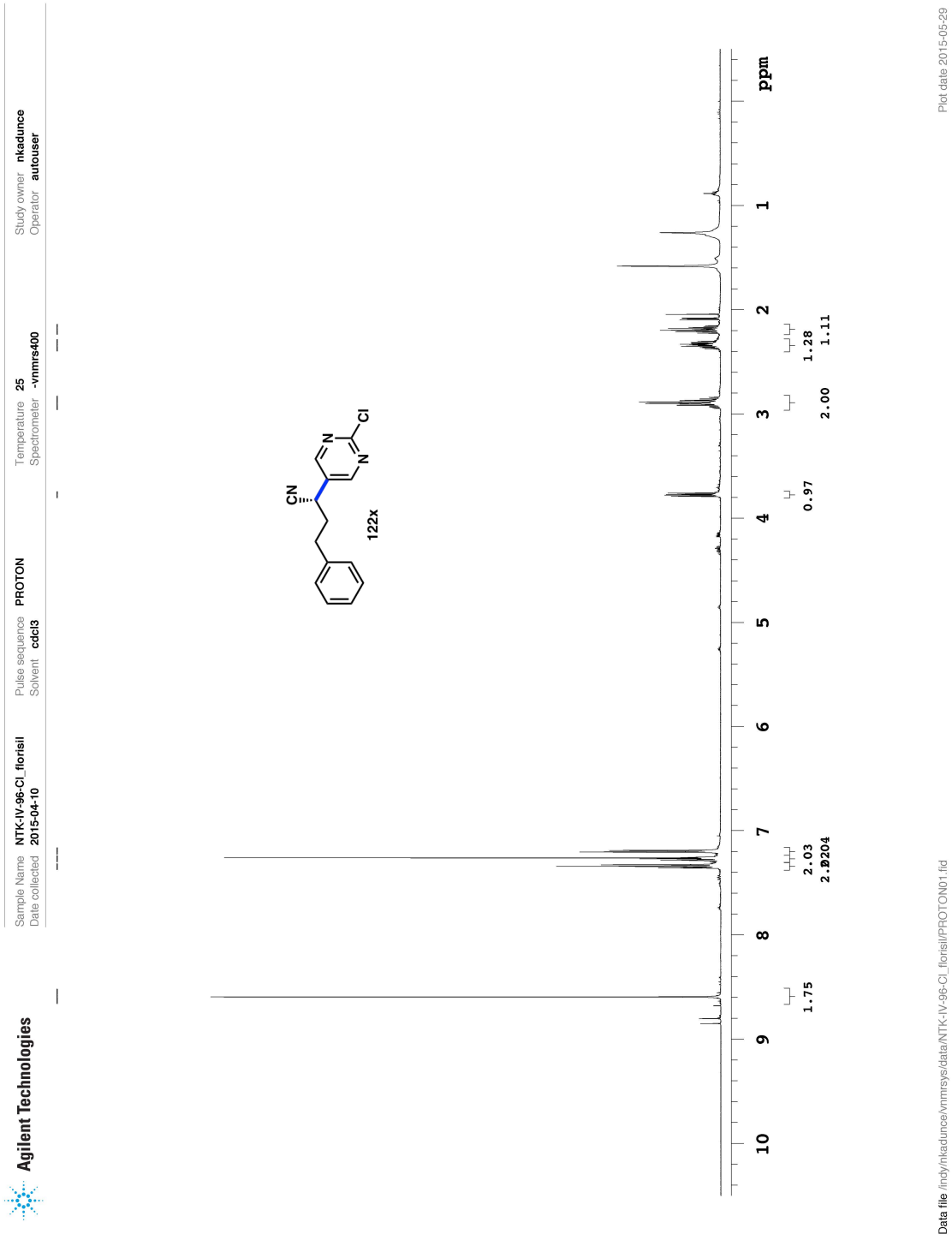

NTK-IV-93-5Fpyridine
Agilent Technologies
Sample Name NTK-IV-93-5Fpyridine
Date collected 2015-04-07
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
F
N
122o
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-93-5Fpyridine/CARBON01.fid
Plot date 2015-05-29

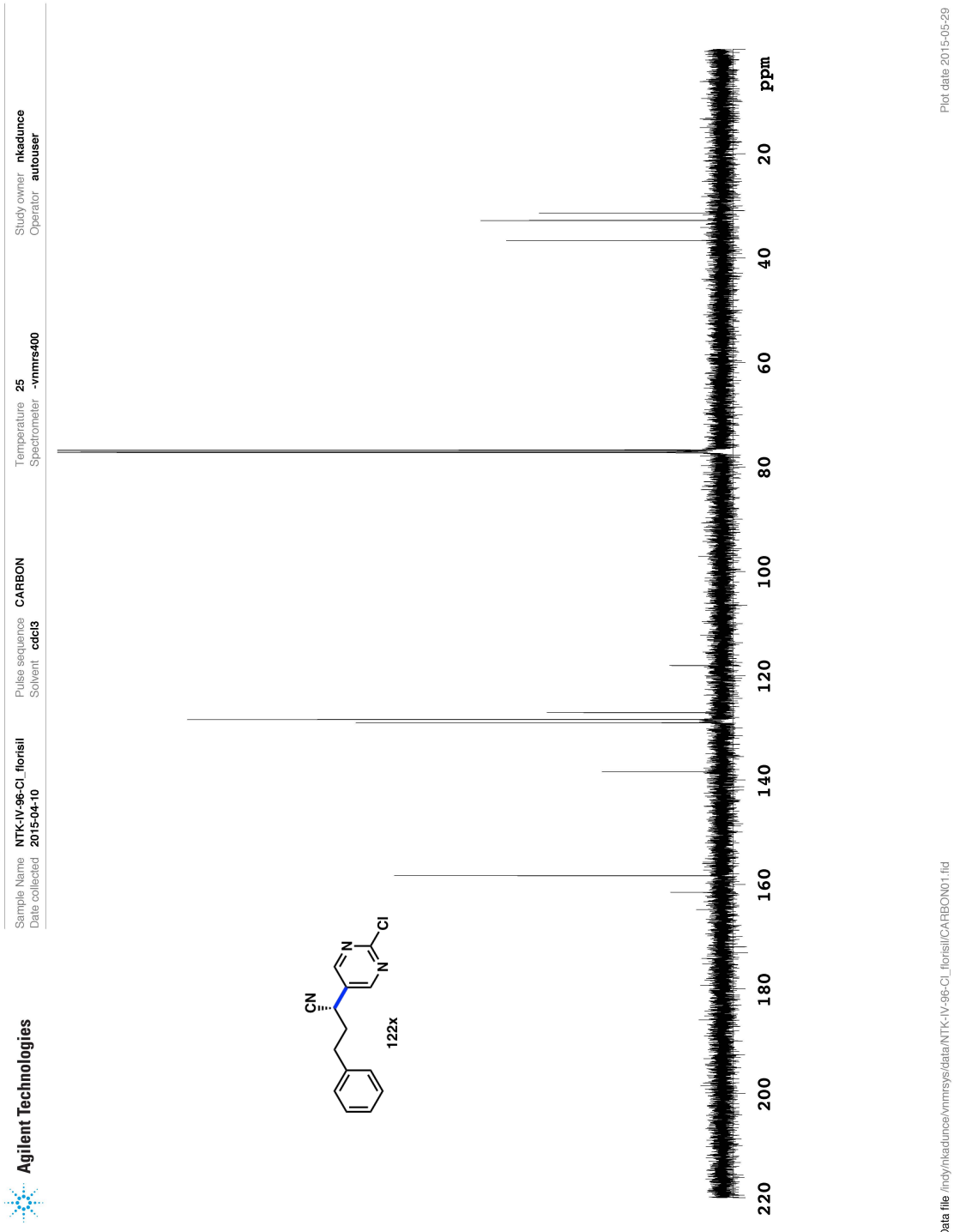

NTK-IV-95-4F
Agilent Technologies
Sample Name NTK-IV-95-4F
Date collected 2015-04-09
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
122p
ppm
0.87
1.00
2.05
1.41
1.06
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-95-4F/PROTON01.fid
Plot date 2015-06-18

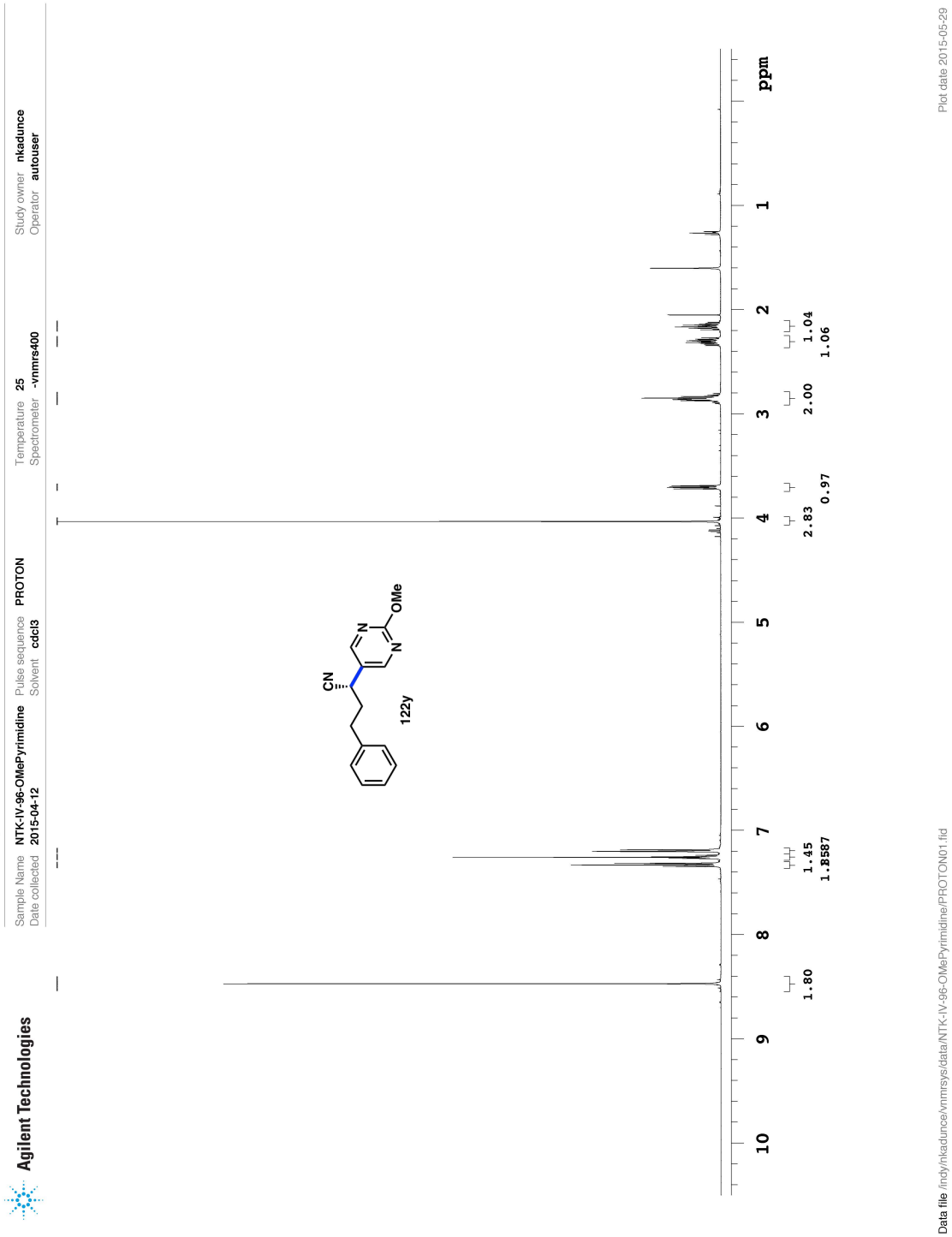

NTK-IV-93-4FPyridine
Agilent Technologies
Sample Name NTK-IV-93-4FPyridine
Date collected 2015-04-07
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
F
N
122p
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-93-4FPyridine/CARBON01.fid

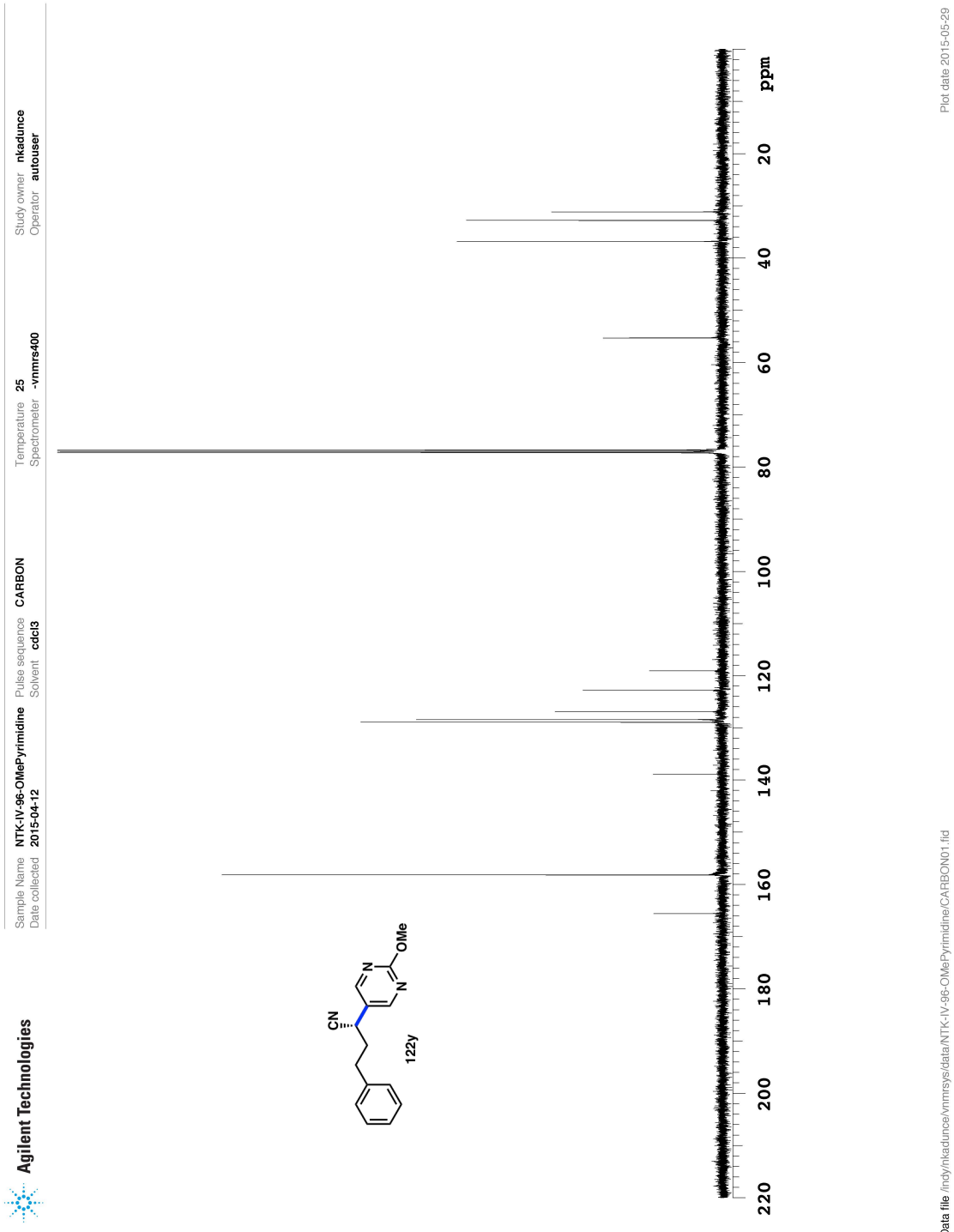

NTK-IV-94-orthoF
Agilent Technologies
Sample Name NTK-IV-94-orthoF
Date collected 2015-04-12
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkaduncе
Operator autouser
CN
F
N
122q
10
9
8
7
6
5
4
3
2
1
ppm
0.89
0.96
1.97
4.61
1.00
2.16
2.05
Data file /data/mdy/nkaduncе/vnmrsys/data/NTK-IV-94-orthoF/PROTON03.fid
Plot date 2015-06-18

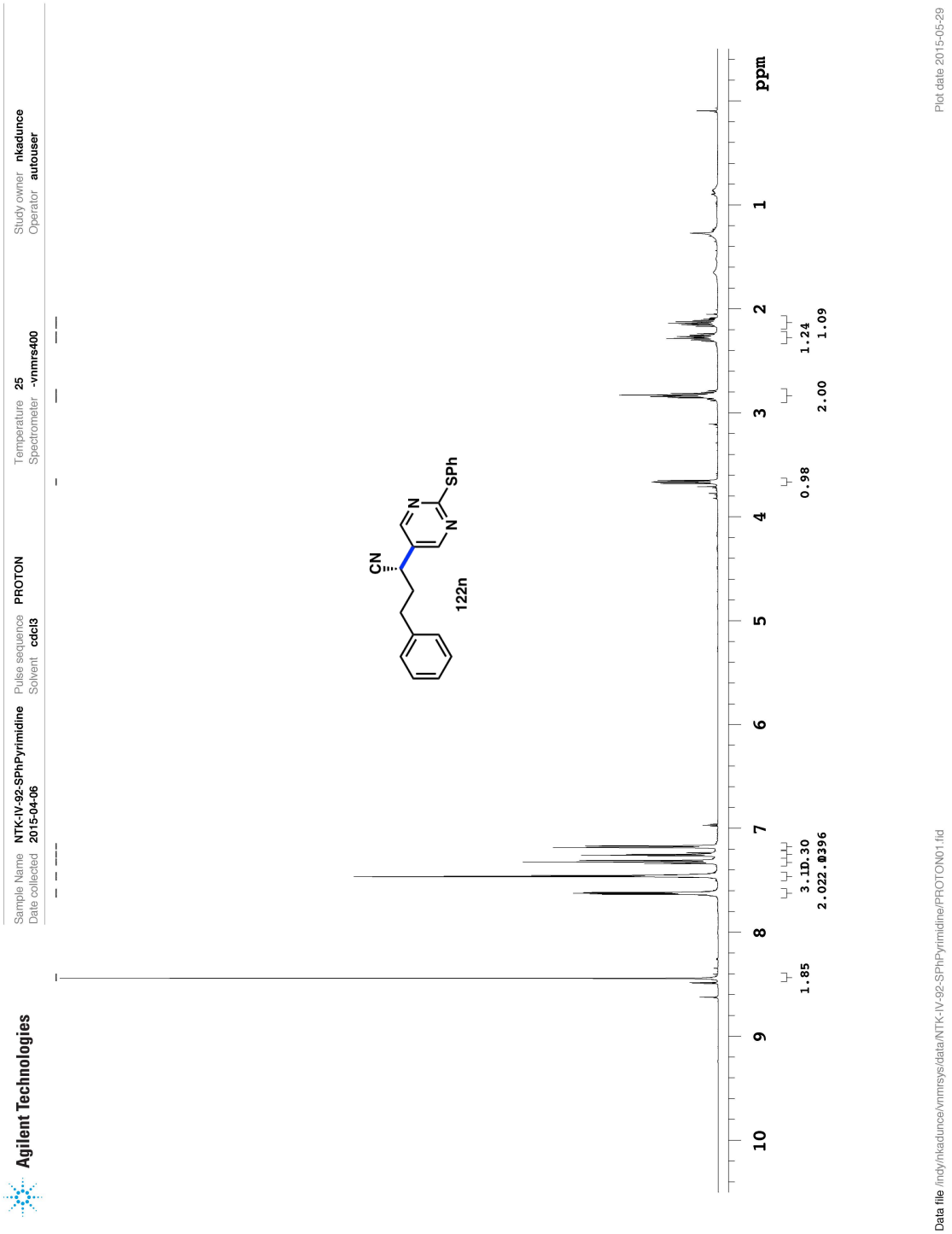

NTK-IV-94-orthoF
Agilent Technologies
Sample Name NTK-IV-94-orthoF
Date collected 2015-04-08
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
F
N
CN
122q
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-94-orthoF/CARBON01.fid


NTK-IV-96-Cl_florisil
Agilent Technologies
Sample Name NTK-IV-96-Cl_florisil
Date collected 2015-04-10
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
122x
ppm
1.75
2.03
0.97
2.00
1.28
1.11
Data file /ndy/nkadunce/vnmrsys/data/NTK-IV-96-Cl_florisil/PROTON01.fid
Plot date 2015-05-29

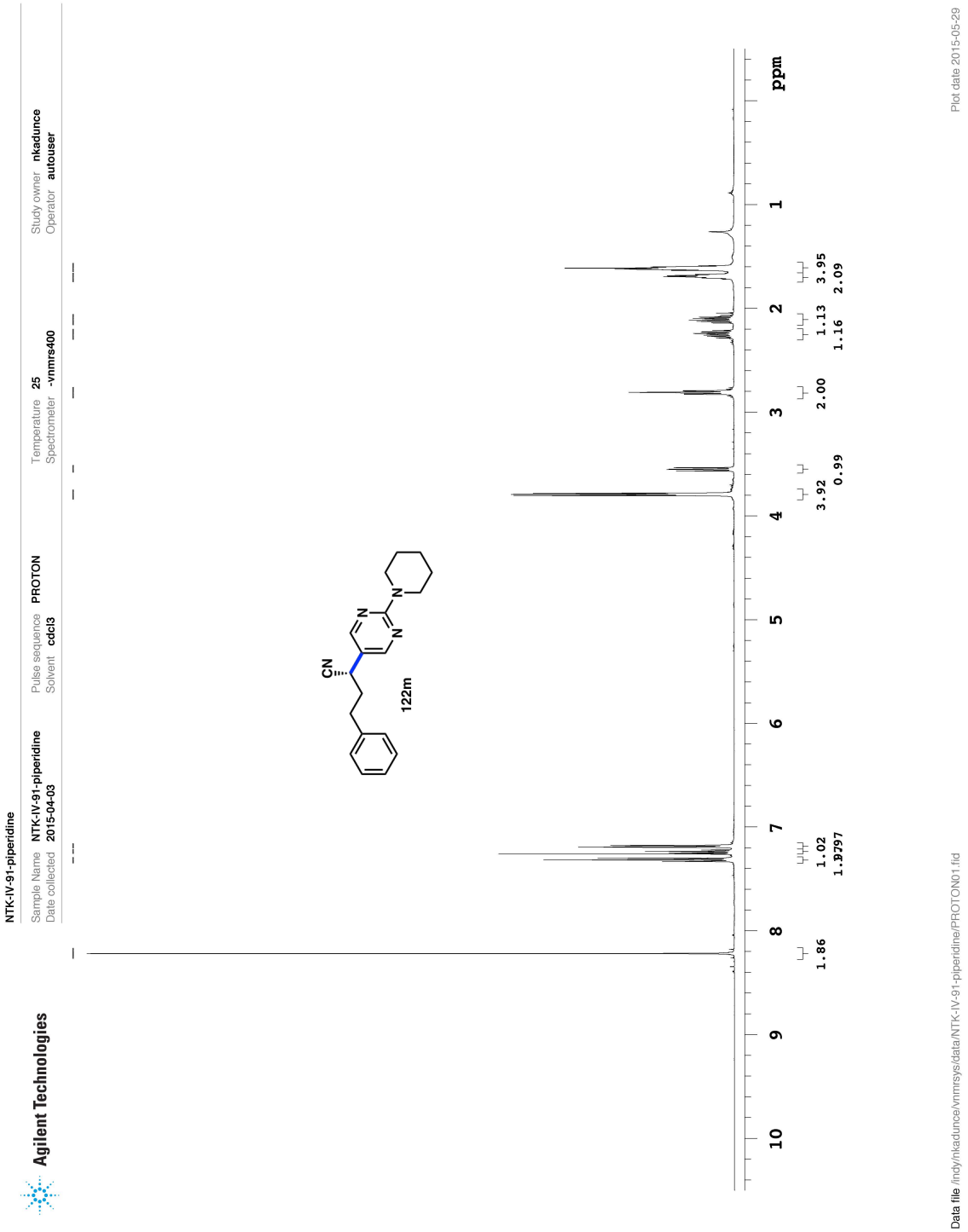

NTK-IV-96-Cl_florisil
Agilent Technologies
Sample Name NTK-IV-96-Cl_florisil
Date collected 2015-04-10
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
N
N
122x
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /mdy/nkadunce/vnmrsys/data/NTK-IV-96-Cl_florisil/CARBON01.fid
Plot date 2015-05-29

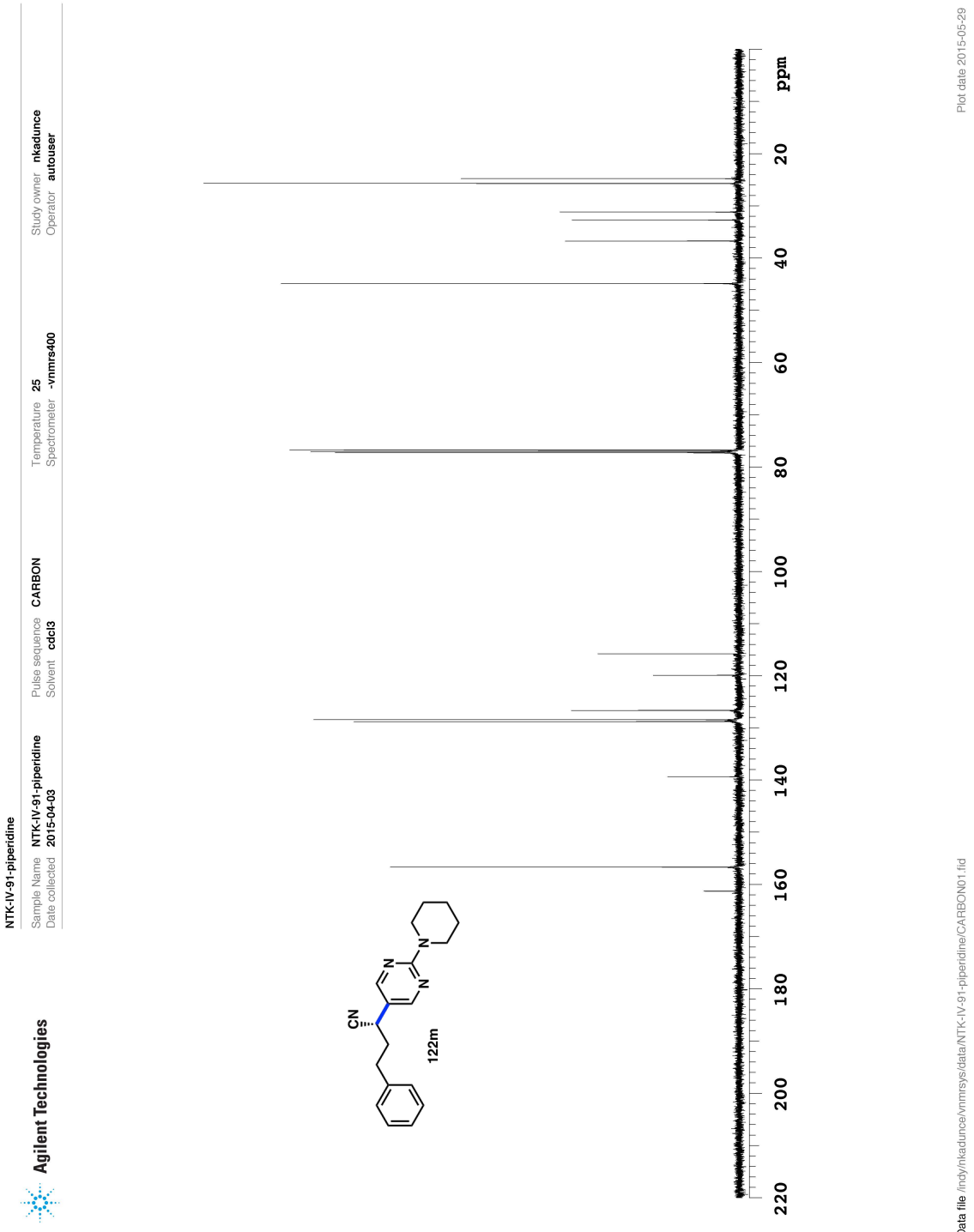

NTK-IV-96-OMePyrimidine
Agilent Technologies
Sample Name NTK-IV-96-OMePyrimidine
Date collected 2015-04-12
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
122y
CN
OMe
N
N
ppm
1.80
1.45
1.85
87
2.83
0.97
2.00
1.04
1.06
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-96-OMePyrimidine/PROTON01.fid
Plot date 2015-05-29

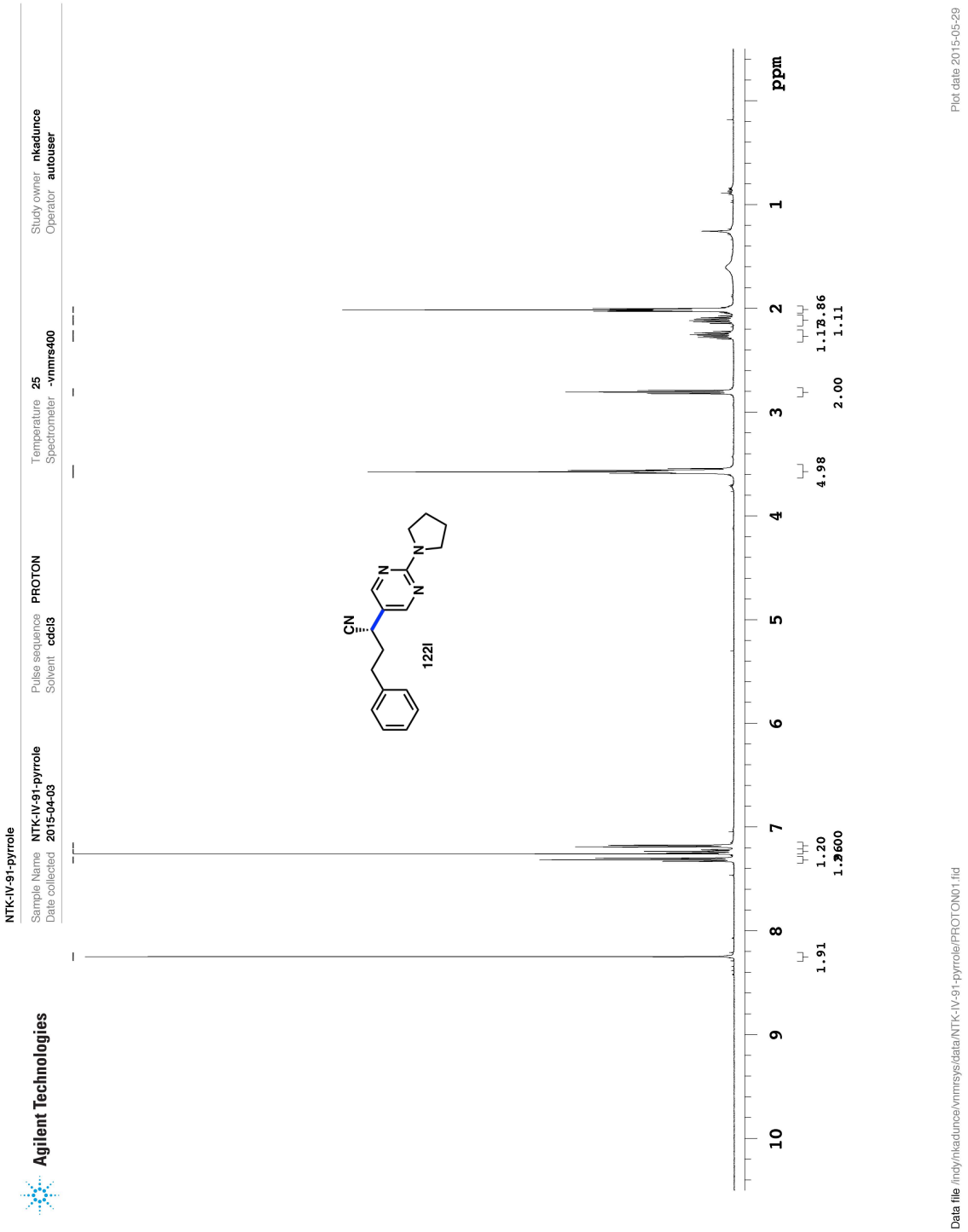

NTK-IV-96-OMePyrimidine
Agilent Technologies
Sample Name NTK-IV-96-OMePyrimidine
Date collected 2015-04-12
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
N
OMe
122y
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /mdy/nkadunce/vnmrsys/data/NTK-IV-96-OMePyrimidine/CARBON01.fid
Plot date 2015-05-29

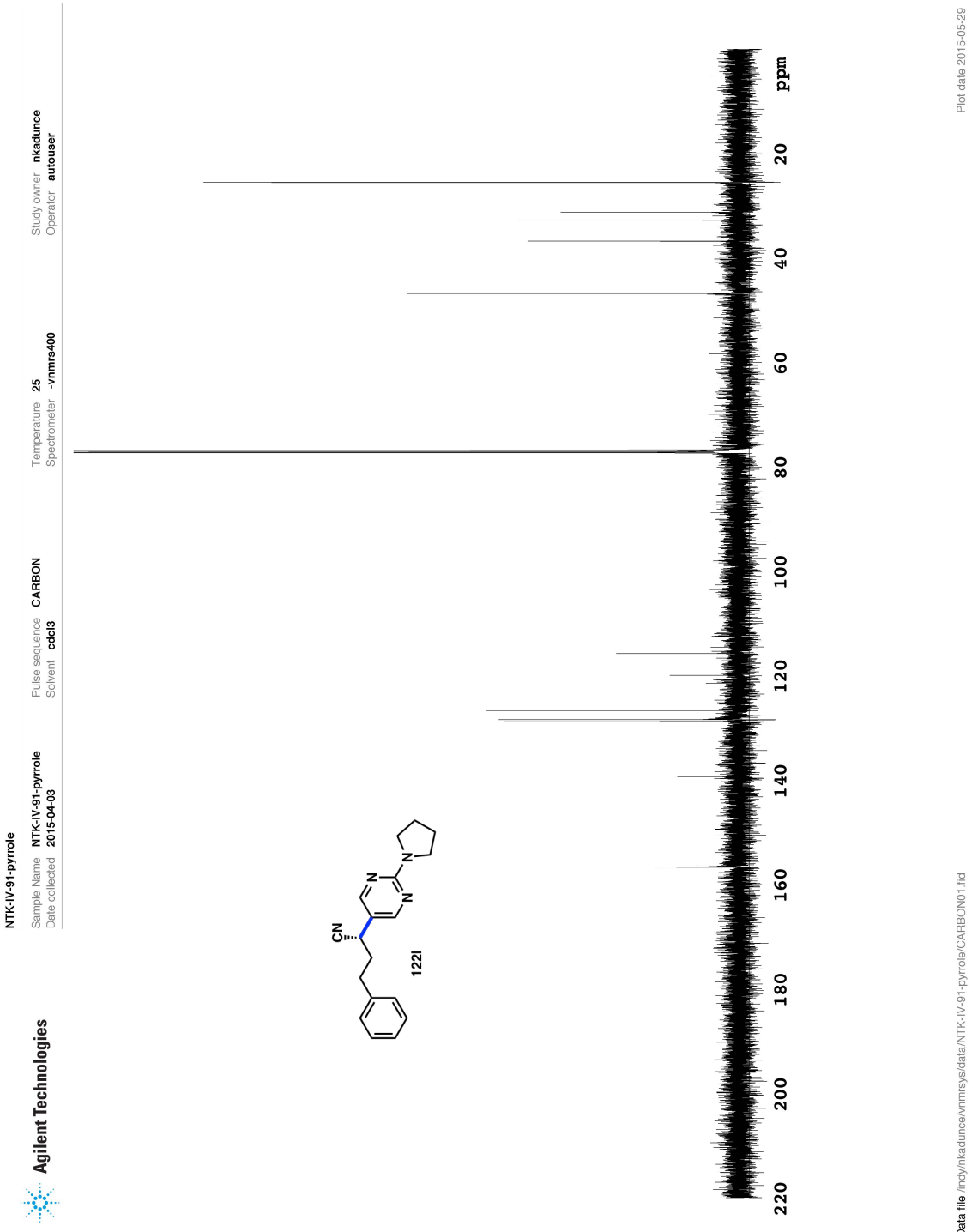

NTK-IV-92-SPhPyrimidine
Agilent Technologies
Sample Name NTK-IV-92-SPhPyrimidine
Date collected 2015-04-06
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
SPh
N
N
122n
ppm
1.85
3.10.30
2.022.0396
0.98
2.00
1.24
1.09
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-92-SPhPyrimidine/PROTON01.fid
Plot date 2015-05-29

NTK-IV-92-SPhPyrimidine
Agilent Technologies
Sample Name NTK-IV-92-SPhPyrimidine
Date collected 2015-04-06
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
N
SPh
122n
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-92-SPhPyrimidine/CARBON01.fid
Plot date 2015-05-29


NTK-IV-91-piperidine
Agilent Technologies
Sample Name NTK-IV-91-piperidine
Date collected 2015-04-03
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
122m
CN
N
N
N
ppm
10
9
8
7
6
5
4
3
2
1
1.86
1.02
1.9797
3.92
0.99
2.00
1.13
1.16
3.95
2.09
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-91-piperidine/PROTON01.fid
Plot date 2015-05-29


NTK-IV-91-piperidine
Agilent Technologies
Sample Name NTK-IV-91-piperidine
Date collected 2015-04-03
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
122m
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-91-piperidine/CARBON01.fid
Plot date 2015-05-29

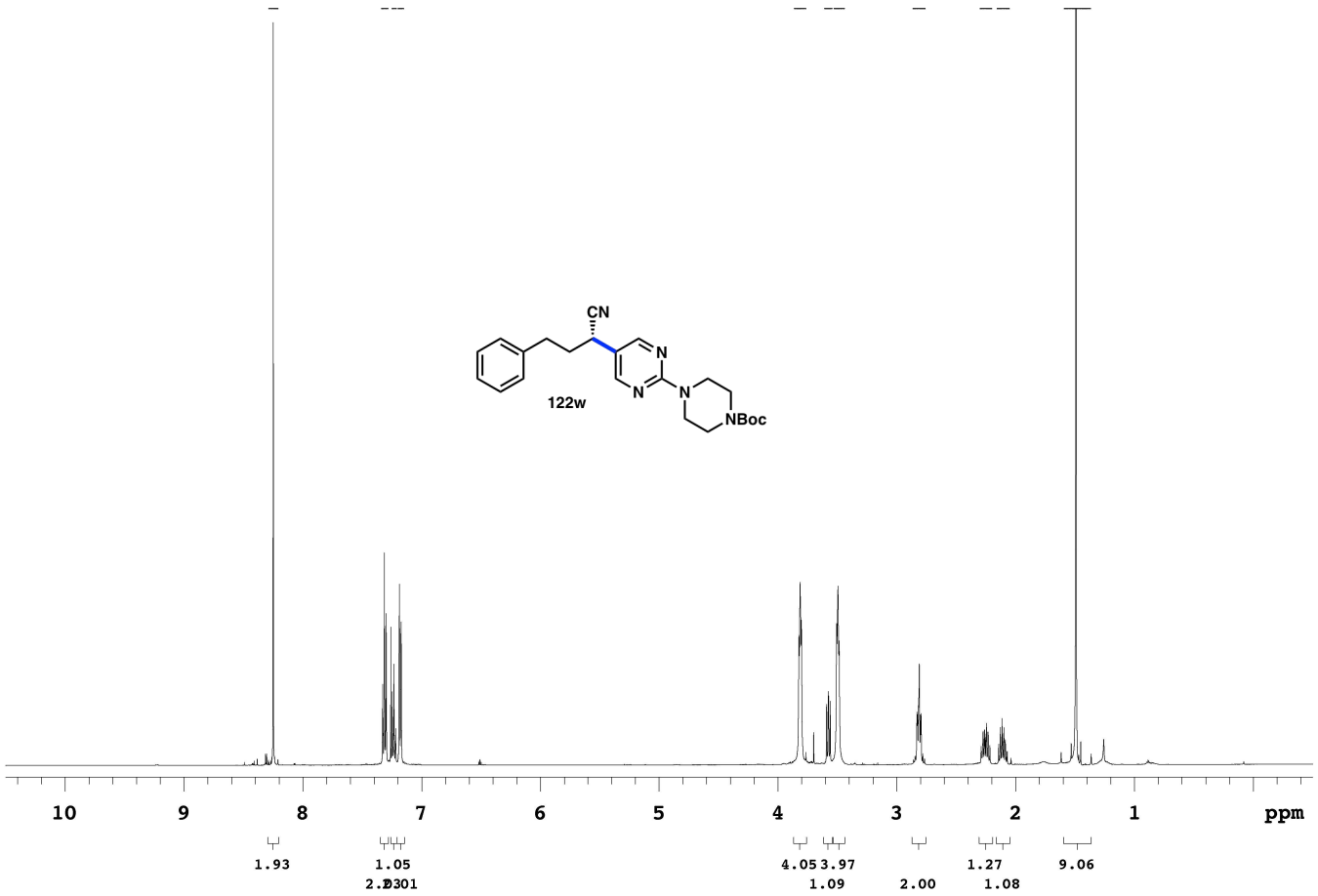

NTK-IV-91-pyrrole
Agilent Technologies
Sample Name NTK-IV-91-pyrrole
Date collected 2015-04-03
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
122I
ppm
1.91
1.20
1.9600
4.98
2.00
1.1783.86
1.11
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-91-pyrrole/PROTON01.fid
Plot date 2015-05-29


NTK-IV-91-pyrrole
Agilent Technologies
Sample Name NTK-IV-91-pyrrole
Date collected 2015-04-03
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
122l
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-91-pyrrole/CARBON01.fid

Agilent Technologies

NTK-IV-92-NBocPiperazinylPyrimidine

Sample Name	**NTK-IV-92-NBocPiperazinylPyrimidine**	Experiment	**PROTON**	Temperature	**25**	Study owner	**nkadunce**
Date collected	**2015-04-06**	Solvent	**cdcl3**	Spectrometer	**-vnmrs400**	Operator	**autouser**



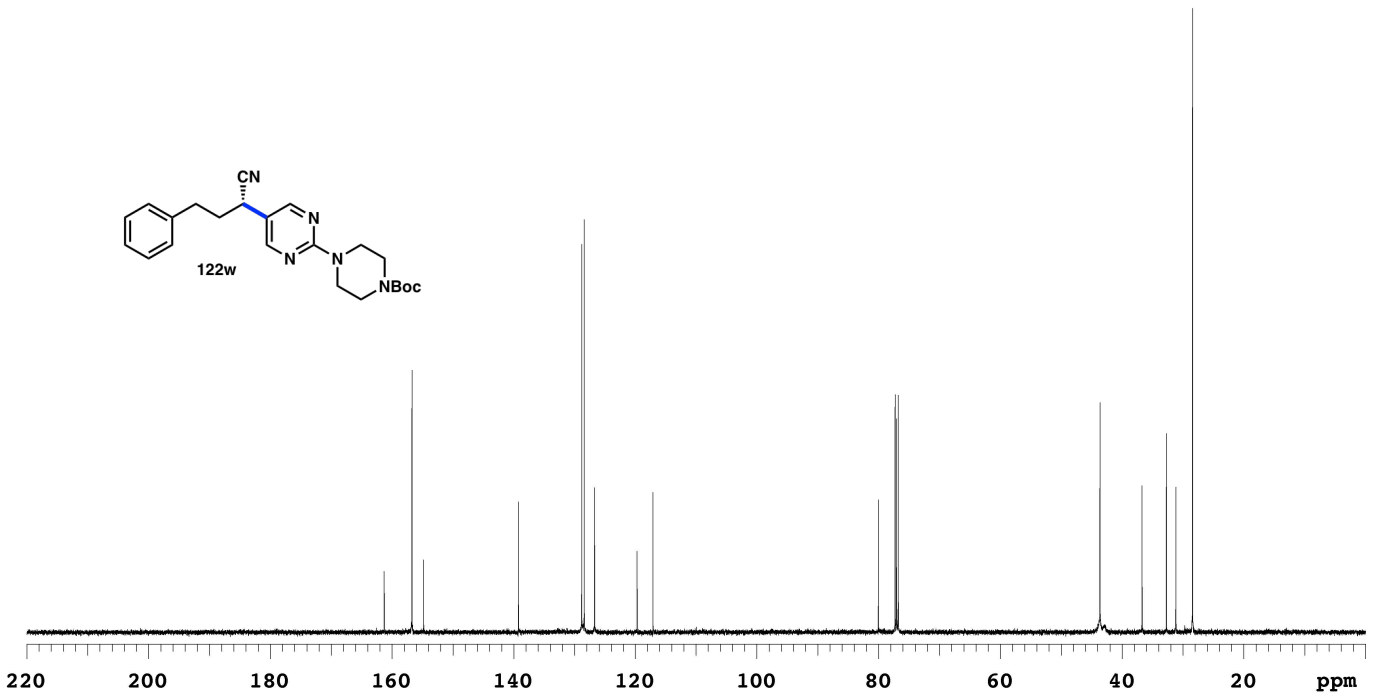
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-92-NBocPiperazinylPyrimidine/PROTON01.fid

Plot date 2015-05-29

Agilent Technologies

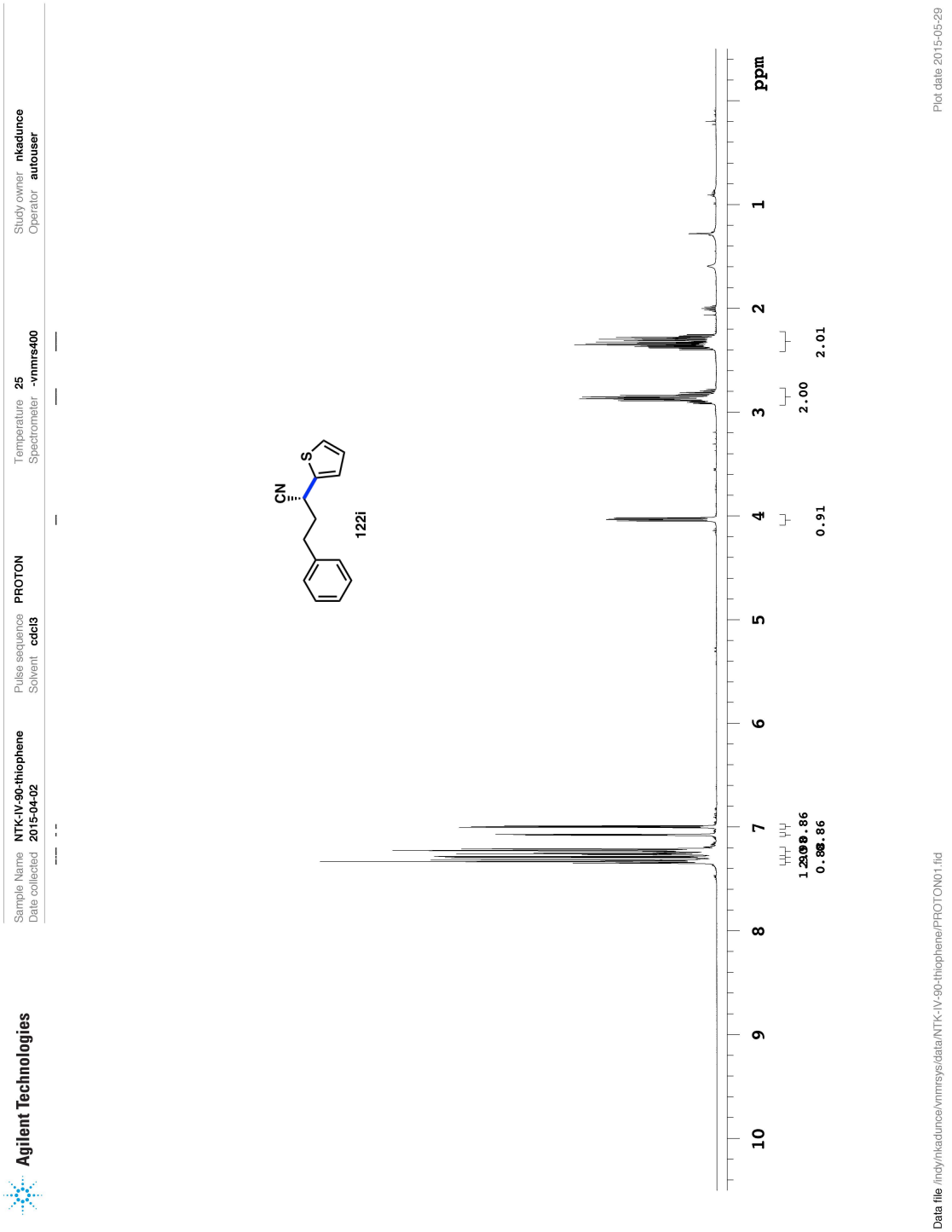
NTK-IV-92-NBocPiperazinylPyrimidine

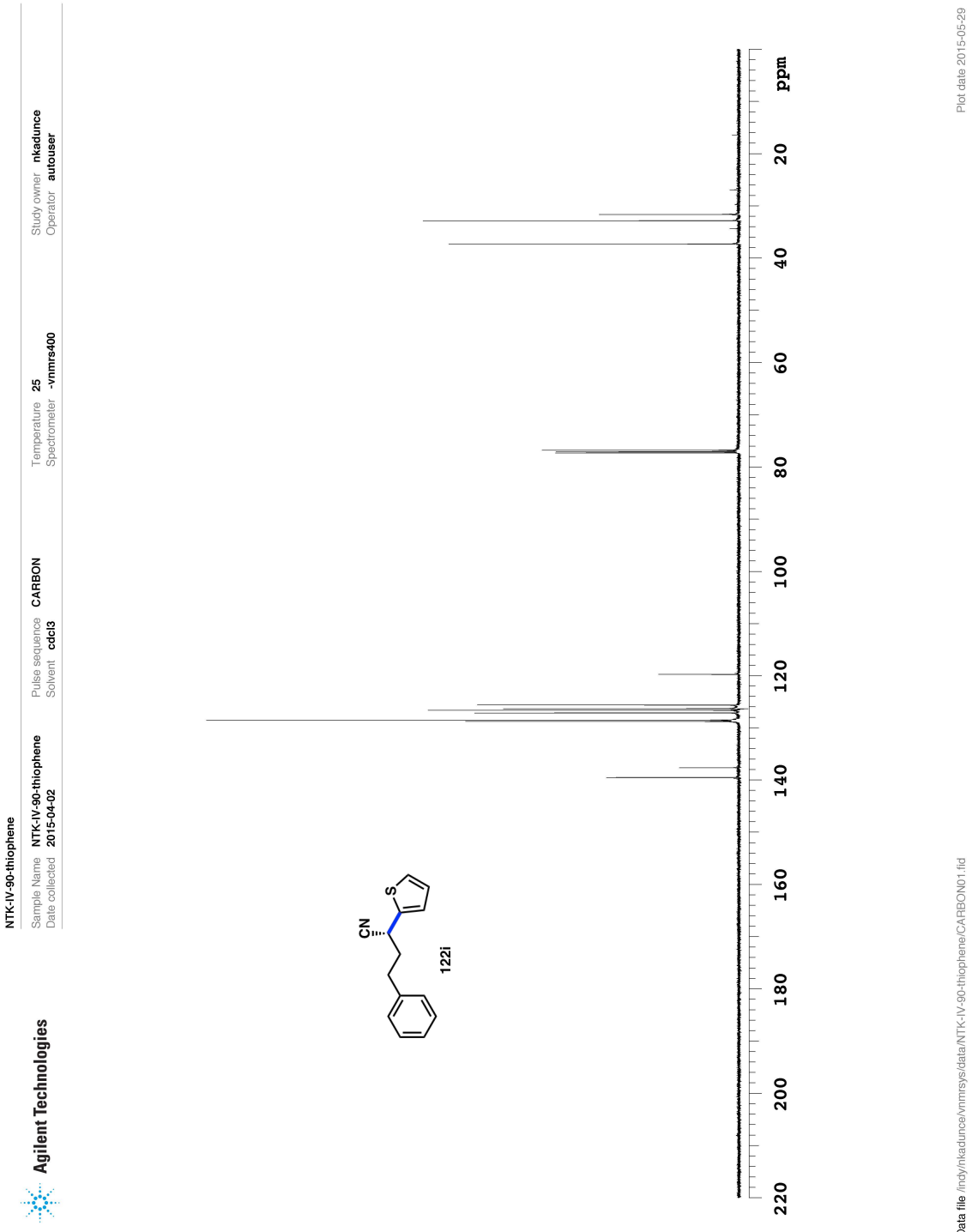
Sample Name	**NTK-IV-92-NBocPiperazinylPyrimidine**	Experiment	**CARBON**	Temperature	**25**	Study owner	**nkadunce**
Date collected	**2015-04-06**	Solvent	**cdcl3**	Spectrometer	**-vnmrs400**	Operator	**autouser**

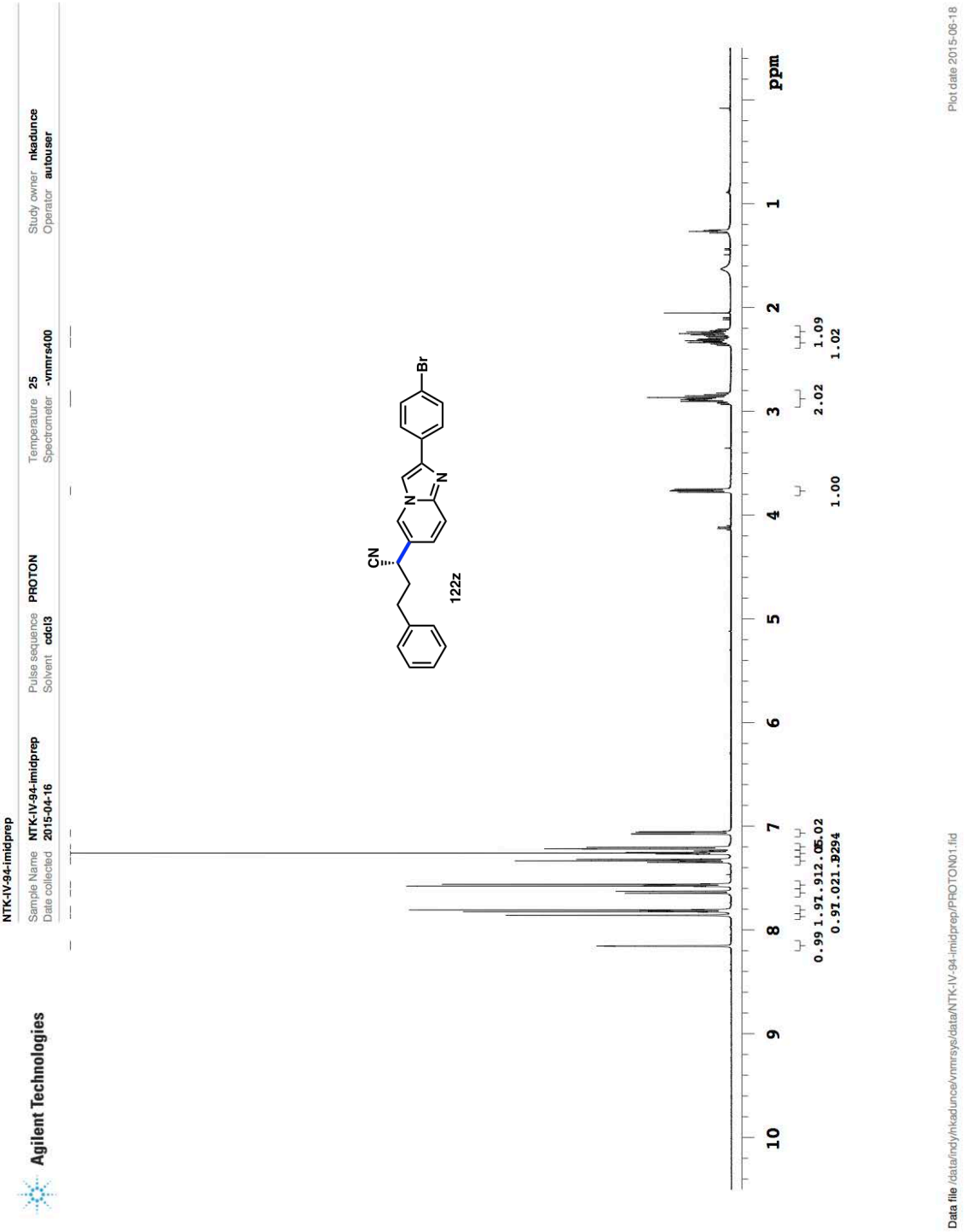


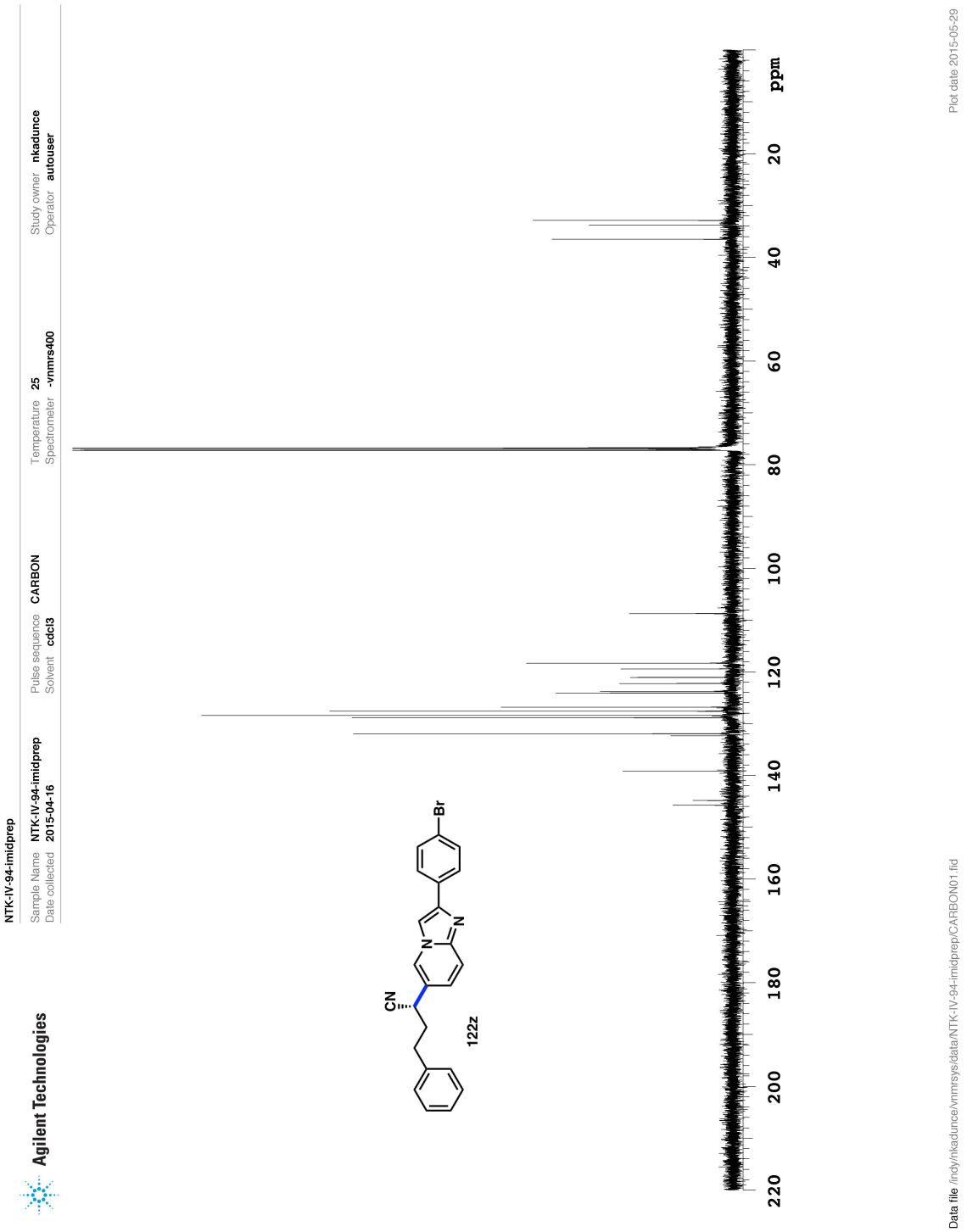
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-92-NBocPiperazinylPyrimidine/CARBON01.fid

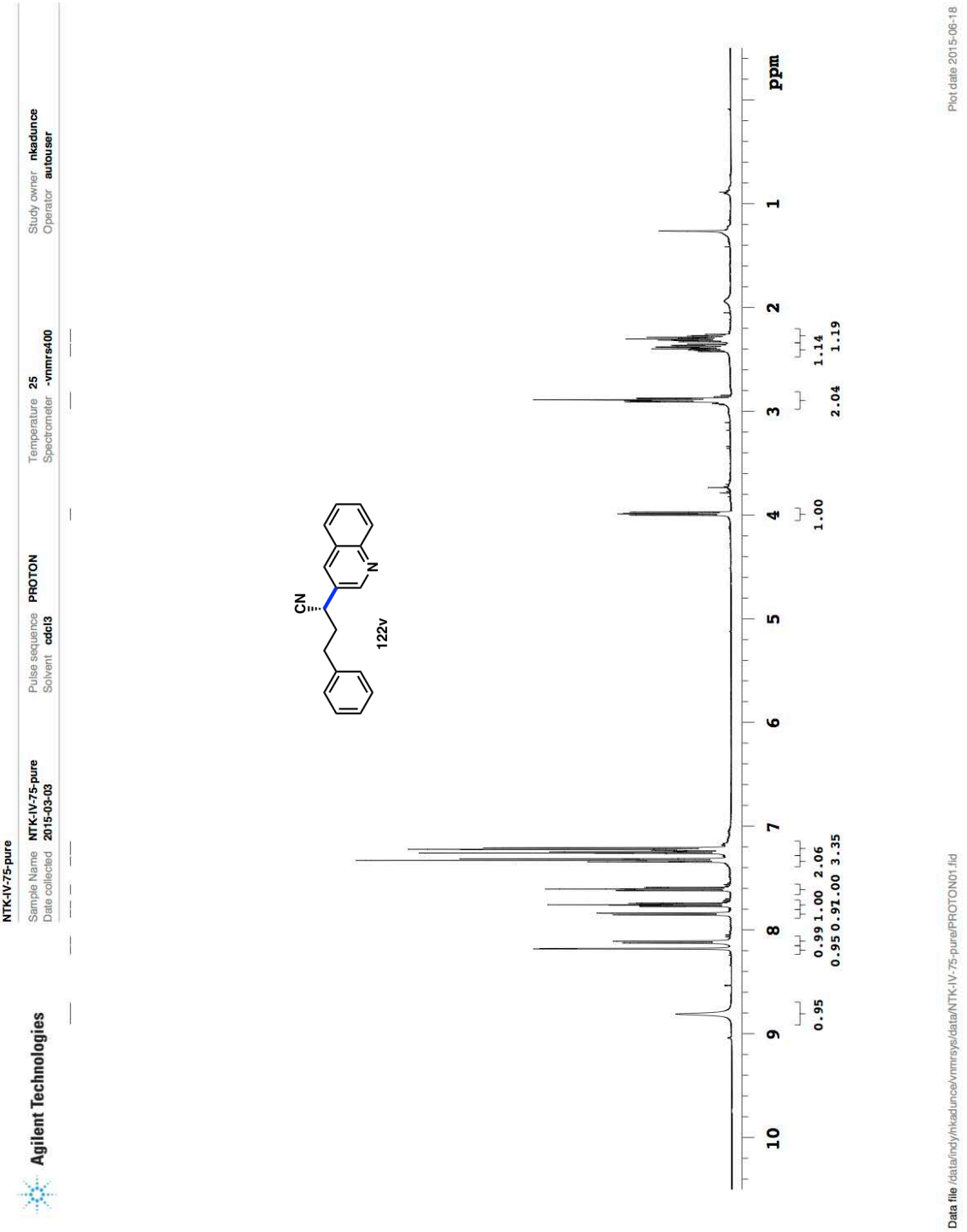
Plot date 2015-05-29

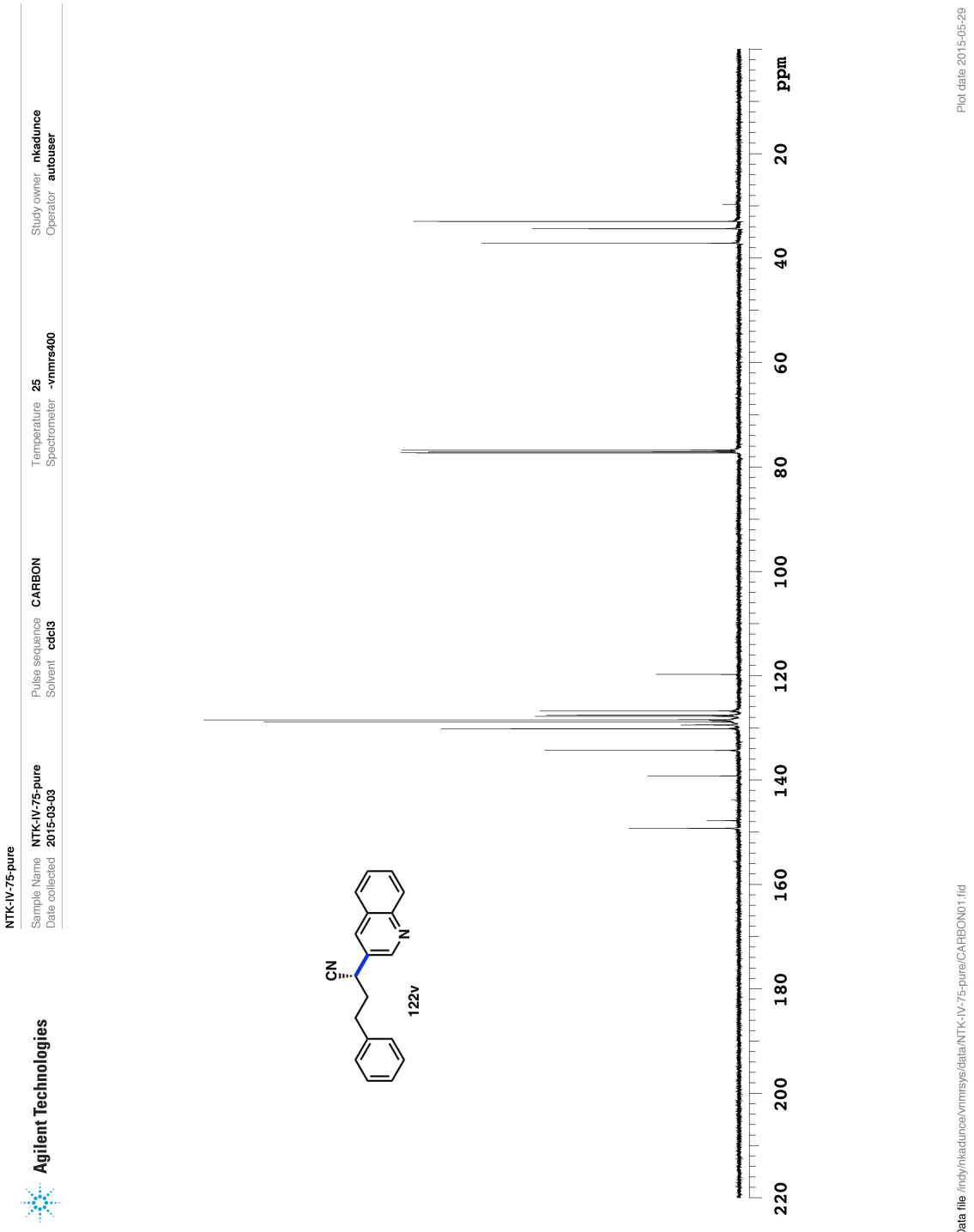

NTK-IV-90-thiophene
Agilent Technologies
Sample Name NTK-IV-90-thiophene
Date collected 2015-04-02
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
S
122i
ppm
10
9
8
7
6
5
4
3
2
1
1.00
0.86
0.86
0.91
2.00
2.01
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-90-thiophene/PROTON01.fid
Plot date 2015-05-29

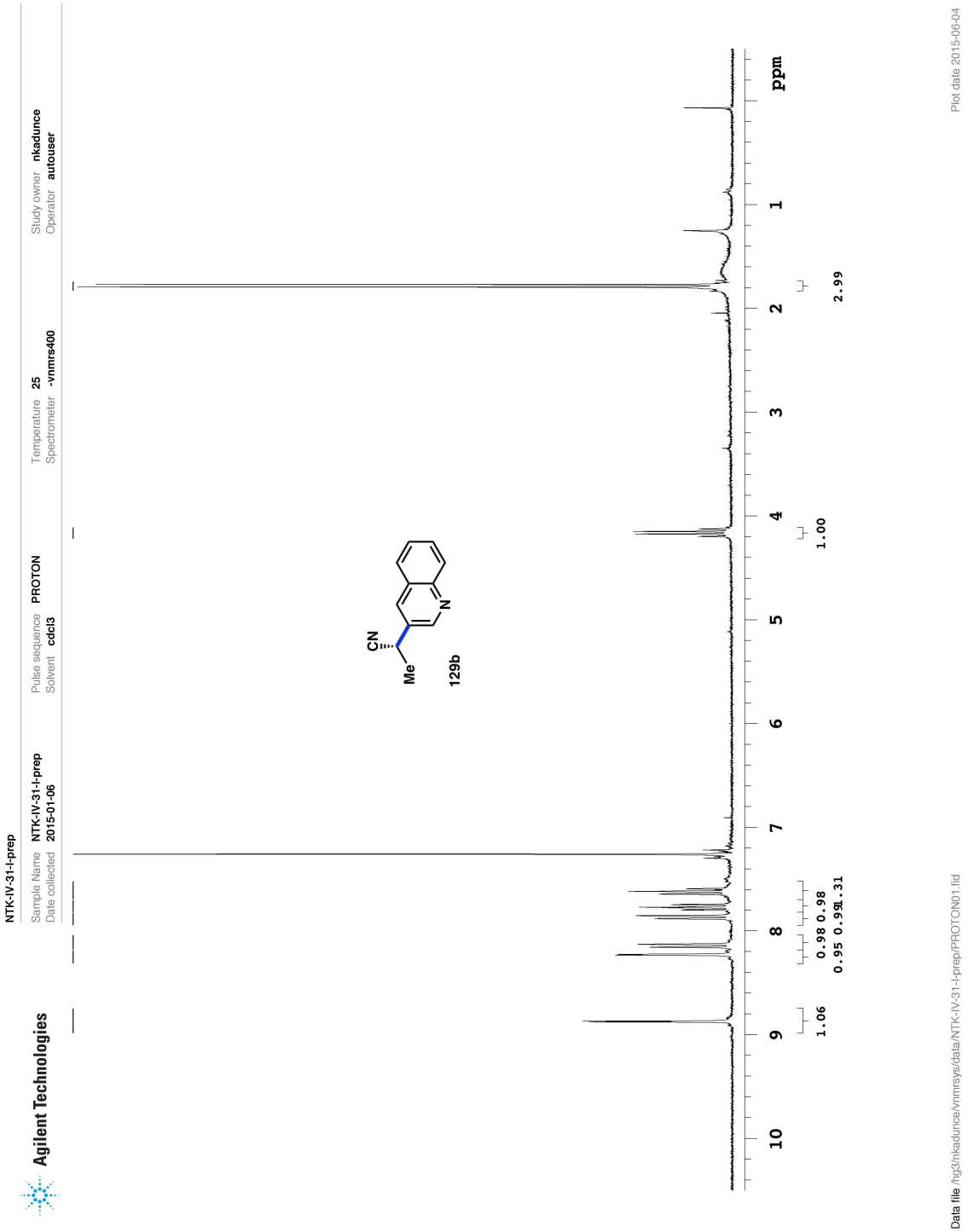

NTK-IV-90-thiophene
Agilent Technologies
Sample Name NTK-IV-90-thiophene
Date collected 2015-04-02
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
S
122i
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-90-thiophene/CARBON01.fid
Plot date 2015-05-29

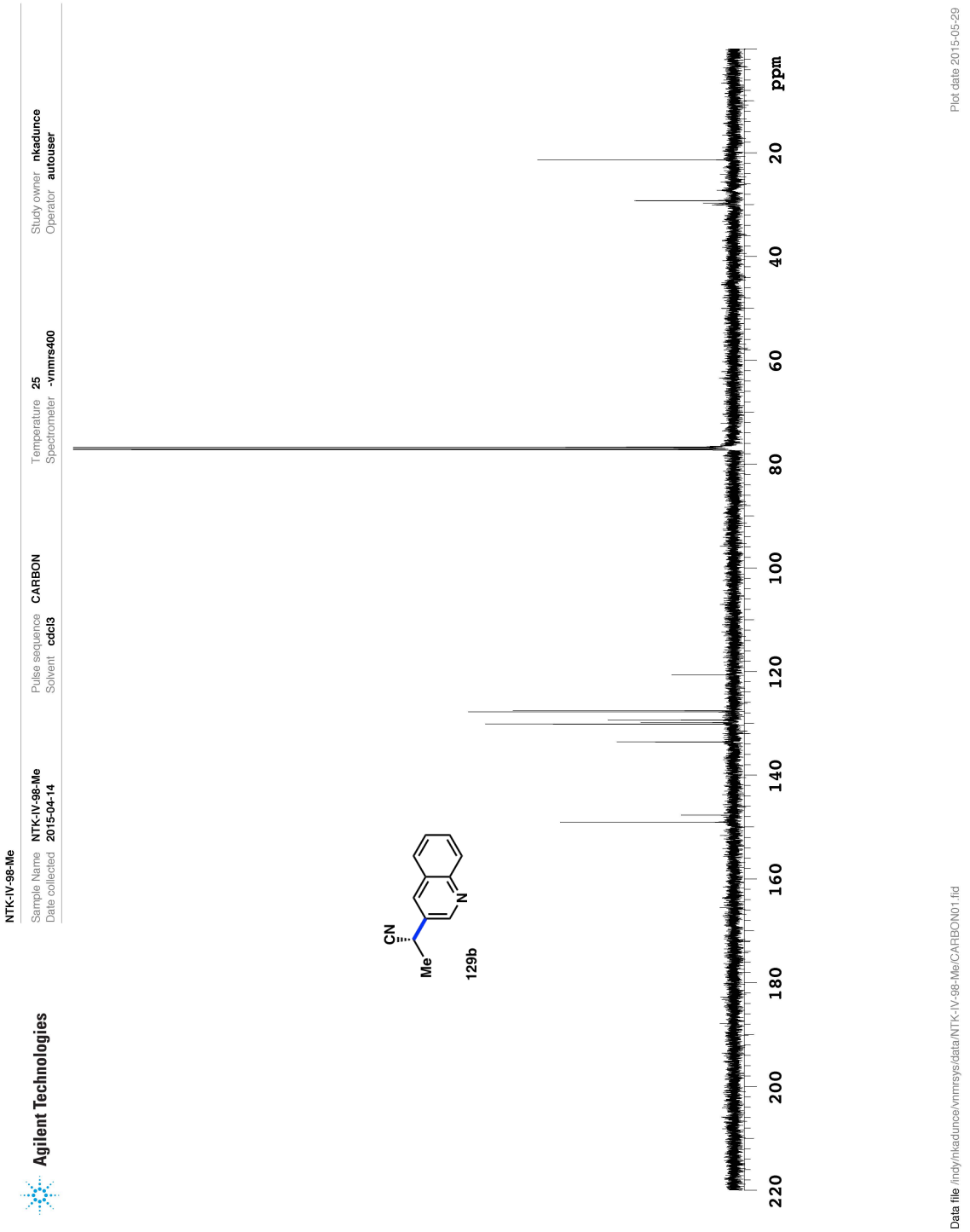

NTK-IV-94-imidprep
Agilent Technologies
Sample Name NTK-IV-94-imidprep
Date collected 2015-04-16
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Br
N
N
122z
ppm
10
9
8
7
6
5
4
3
2
1
0.99 1.97 1.91 2.02 5.02
0.91 1.02 1.00 2.02 1.09 1.02
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-94-imidprep/PROTON01.fid
Plot date 2015-06-18

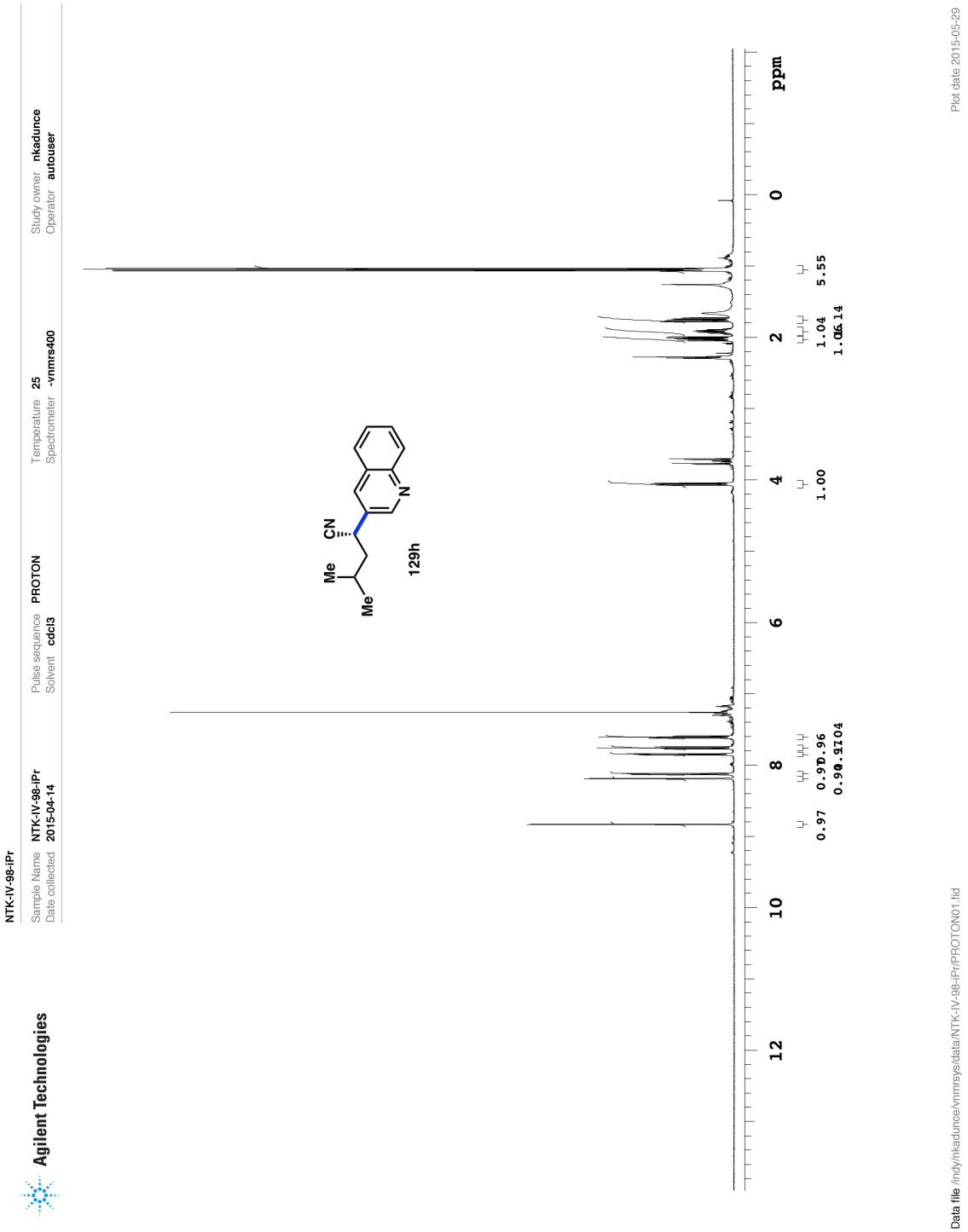

NTK-IV-94-imidprep
Agilent Technologies
Sample Name NTK-IV-94-imidprep
Date collected 2015-04-16
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
Br
N
N
CN
122z
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /mdy/nkadunce/vnmrsys/data/NTK-IV-94-imidprep/CARBON01.fid
Plot date 2015-05-29

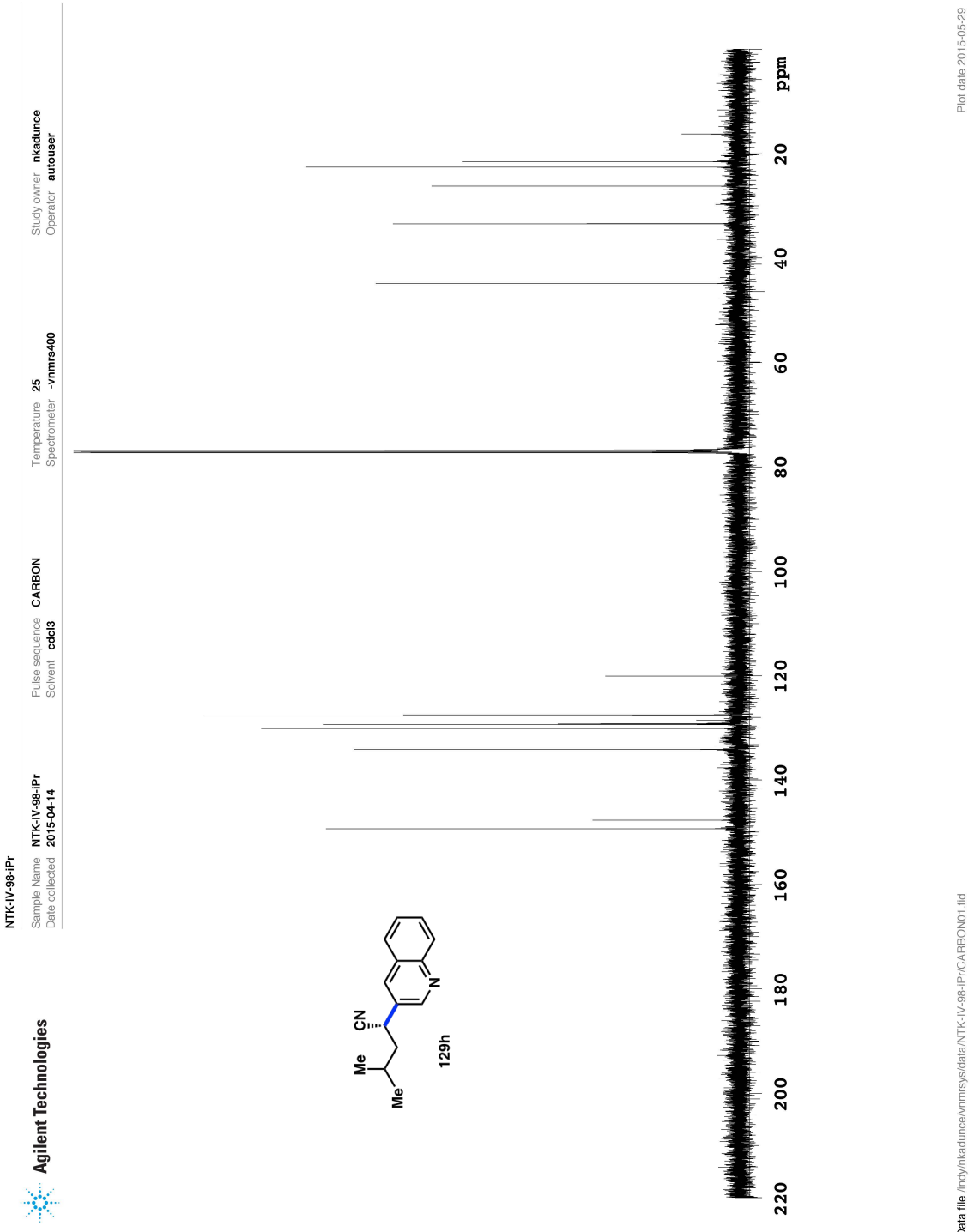

NTK-IV-75-pure
Agilent Technologies
Sample Name NTK-IV-75-pure
Date collected 2015-03-03
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
122v
CN
N
ppm
10
9
8
7
6
5
4
3
2
1
0.95
0.99 1.00 2.06
0.95 0.92.00 3.35
1.00
2.04
1.14
1.19
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-75-pure/PROTON01.fid
Plot date 2015-06-18

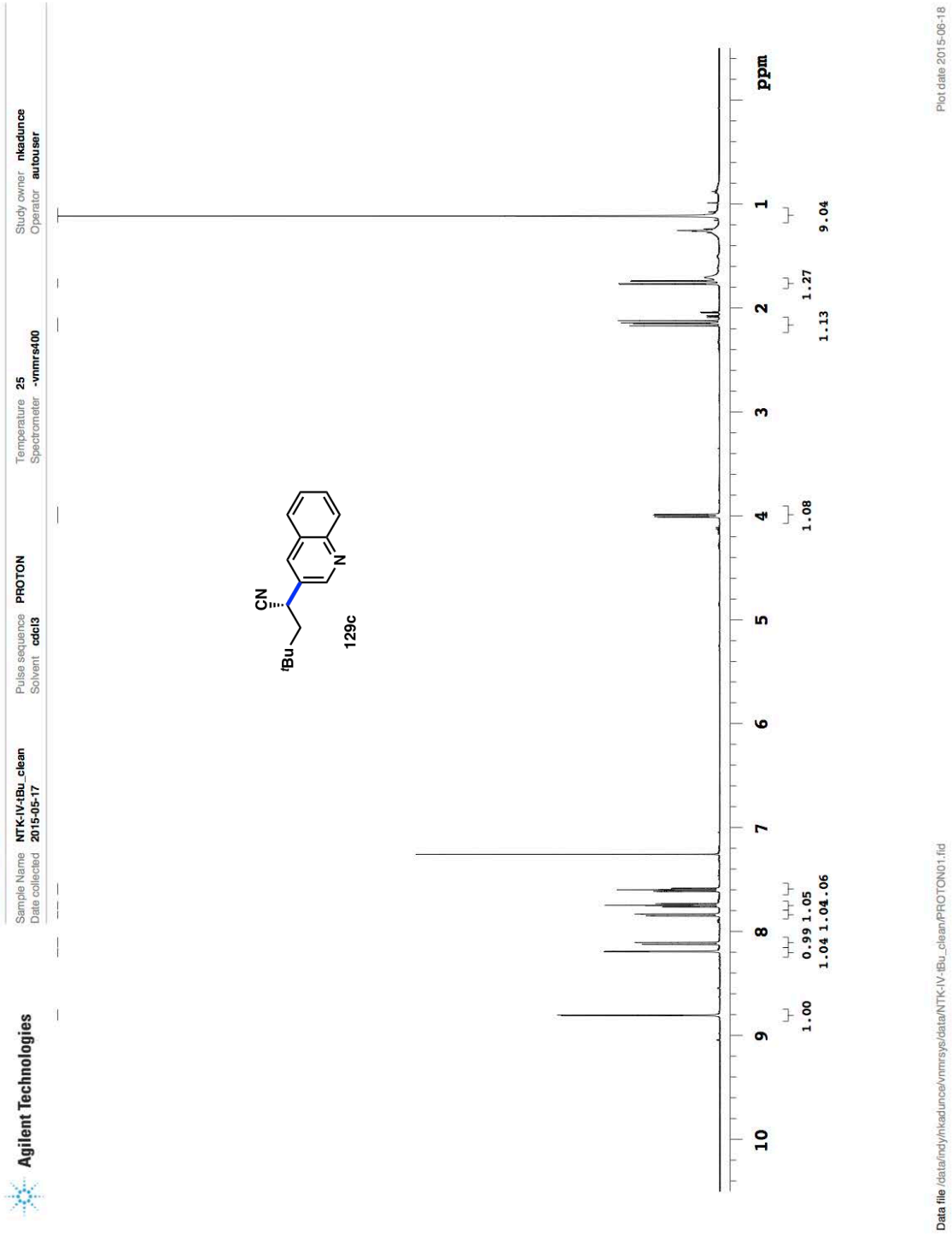

NTK-IV-75-pure
Agilent Technologies
Sample Name NTK-IV-75-pure
Date collected 2015-03-03
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
122v
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-75-pure/CARBON01.fid
Plot date 2015-05-29

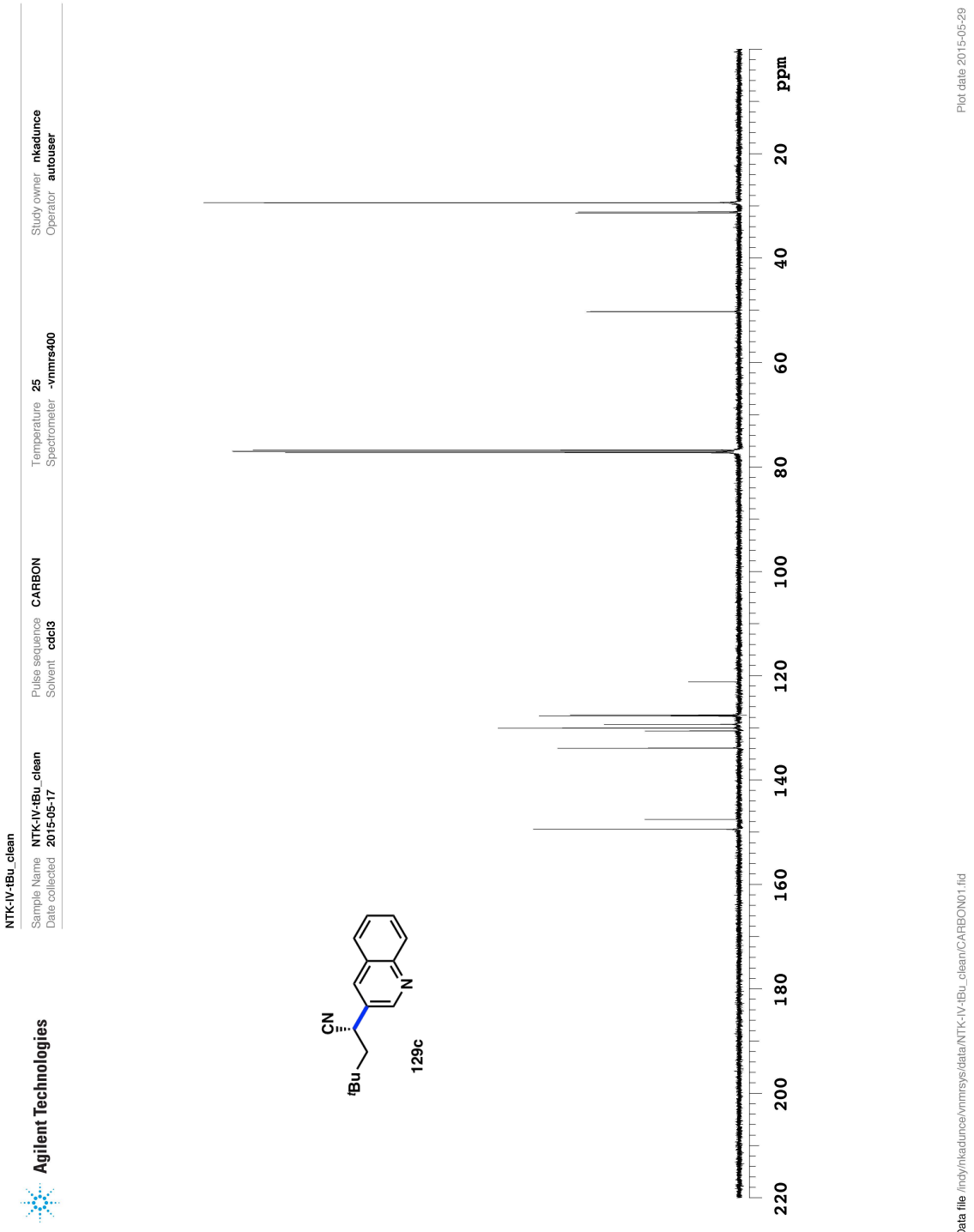

NTK-IV-31-I-prep
Agilent Technologies
Sample Name NTK-IV-31-I-prep
Date collected 2015-01-06
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Me
129b
N
10
9
8
7
6
5
4
3
2
1
ppm
1.06
0.98 0.98
0.95 0.98 1.31
1.00
2.99
Data file /hg3/nkadunce/vnmrsys/data/NTK-IV-31-I-prep/PROTON01.fid
Plot date 2015-06-04

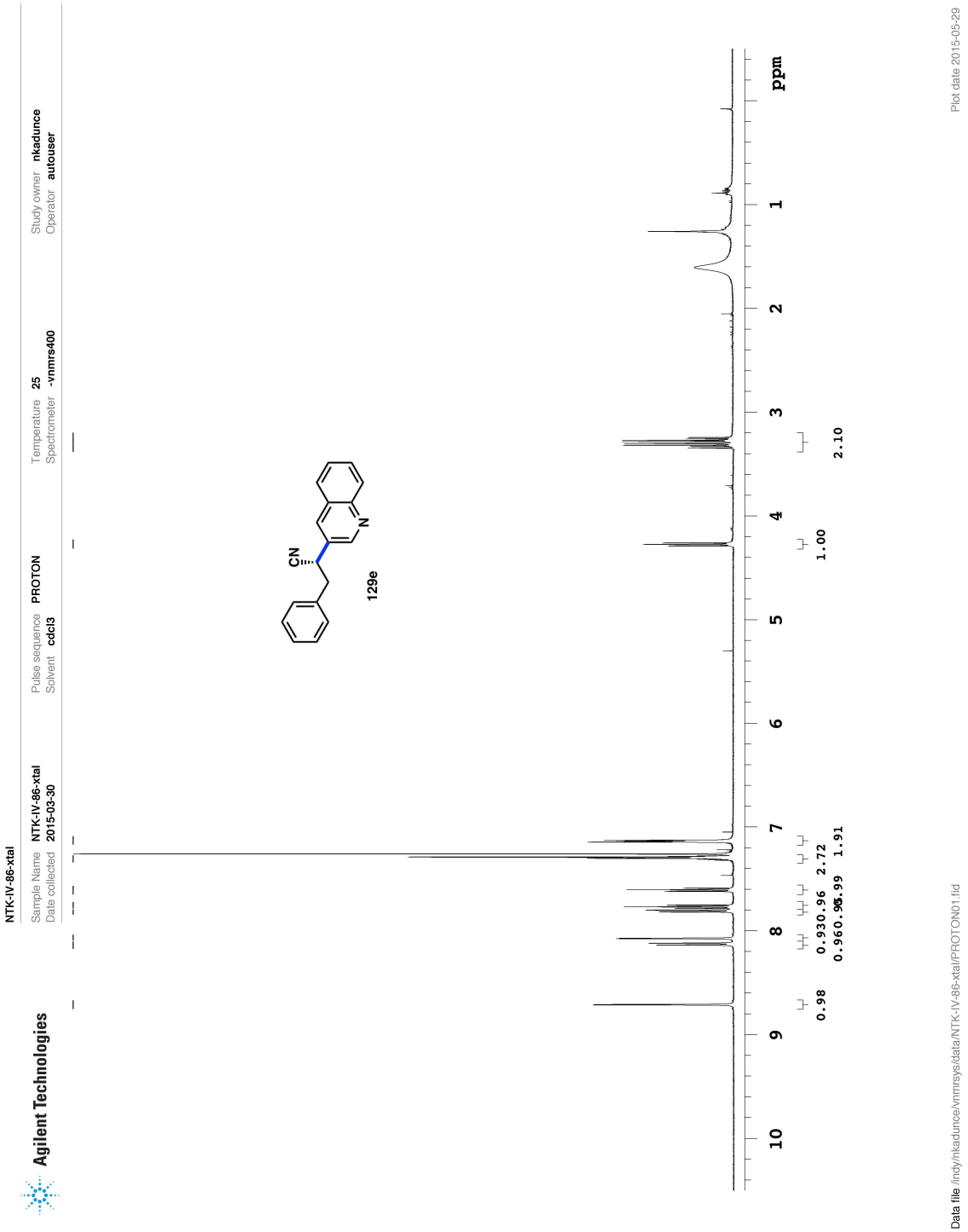

NTK-IV-98-Me
Agilent Technologies
Sample Name NTK-IV-98-Me
Date collected 2015-04-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Me
N
129b
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-98-Me/CARBON01.fid
Plot date 2015-05-29

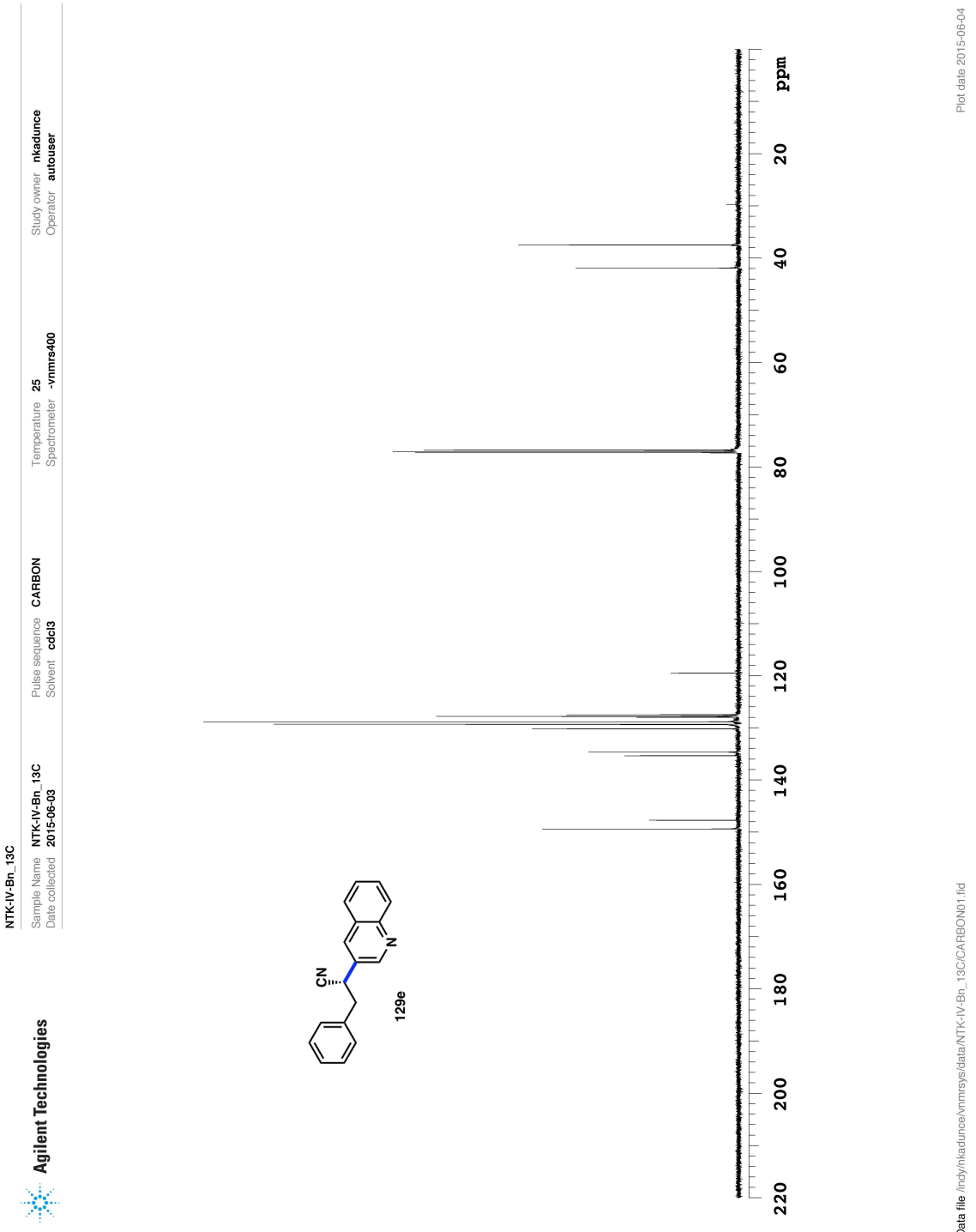

NTK-IV-98-iPr
Agilent Technologies
Sample Name NTK-IV-98-iPr
Date collected 2015-04-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
Me
CN
Me
N
129h
0.97
0.97
0.96
0.90
0.91
0.94
1.00
1.04
1.06
1.14
5.55
12
10
8
6
4
2
0
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-98-iPr/PROTON01.fid
Plot date 2015-05-29

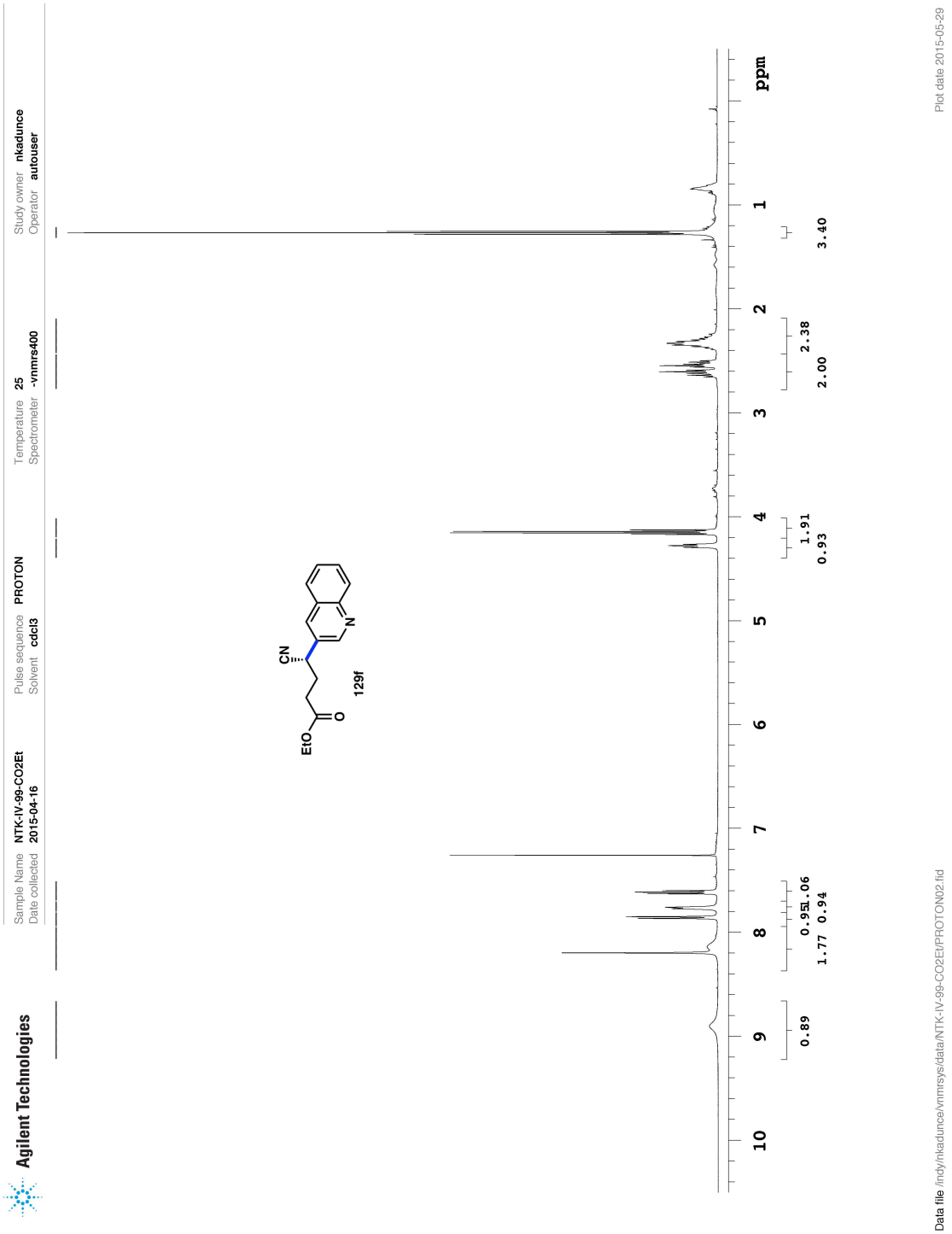

NTK-IV-98-iPr
Agilent Technologies
Sample Name NTK-IV-98-iPr
Date collected 2015-04-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
Me
Me
CN
N
129h
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-98-iPr/CARBON01.fid
Plot date 2015-05-29

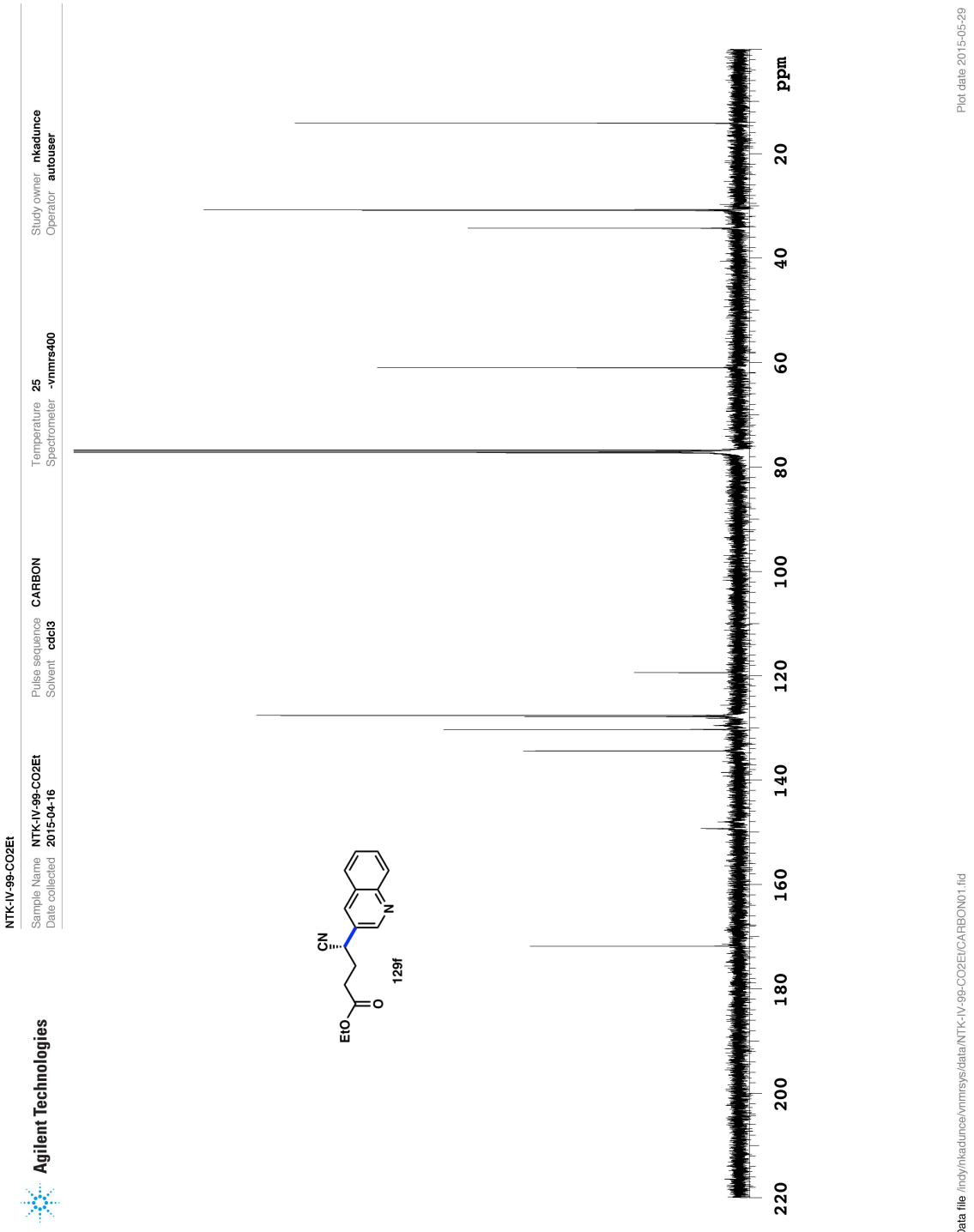

NTK-IV-tBu_clean
Agilent Technologies
Sample Name NTK-IV-tBu_clean
Date collected 2015-05-17
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
tBu
N
129c
ppm
1.00
0.99 1.05
1.04 1.04.06
1.08
1.13
1.27
9.04
Data file /data/mdy/nkadunce/vnmrsys/data/NTK-IV-tBu_clean/PROTON01.fid
Plot date 2015-06-18

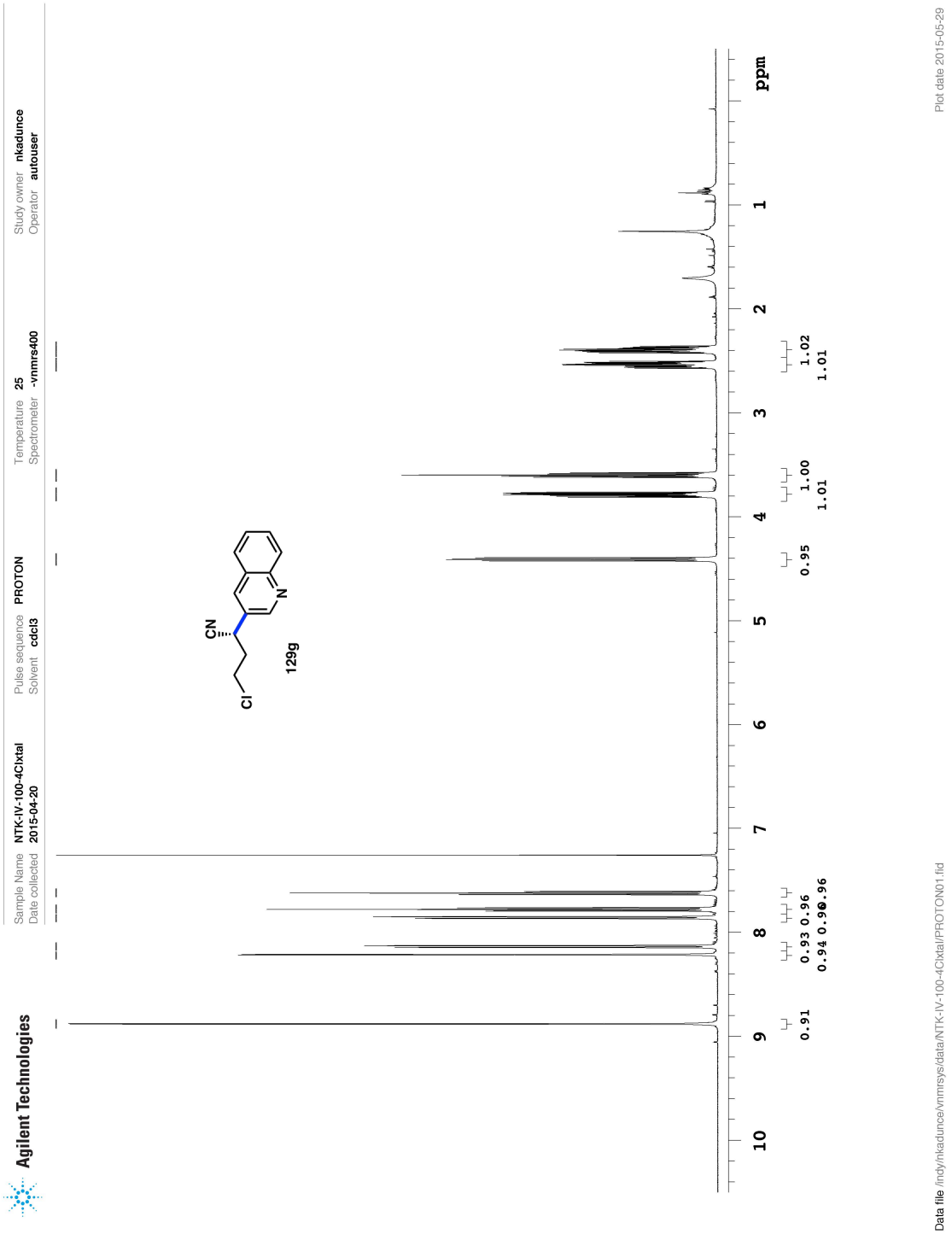

NTK-IV-tBu_clean
Agilent Technologies
Sample Name NTK-IV-tBu_clean
Date collected 2015-05-17
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
tBu
N
129c
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-tBu_clean/CARBON01.fid
Plot date 2015-05-29

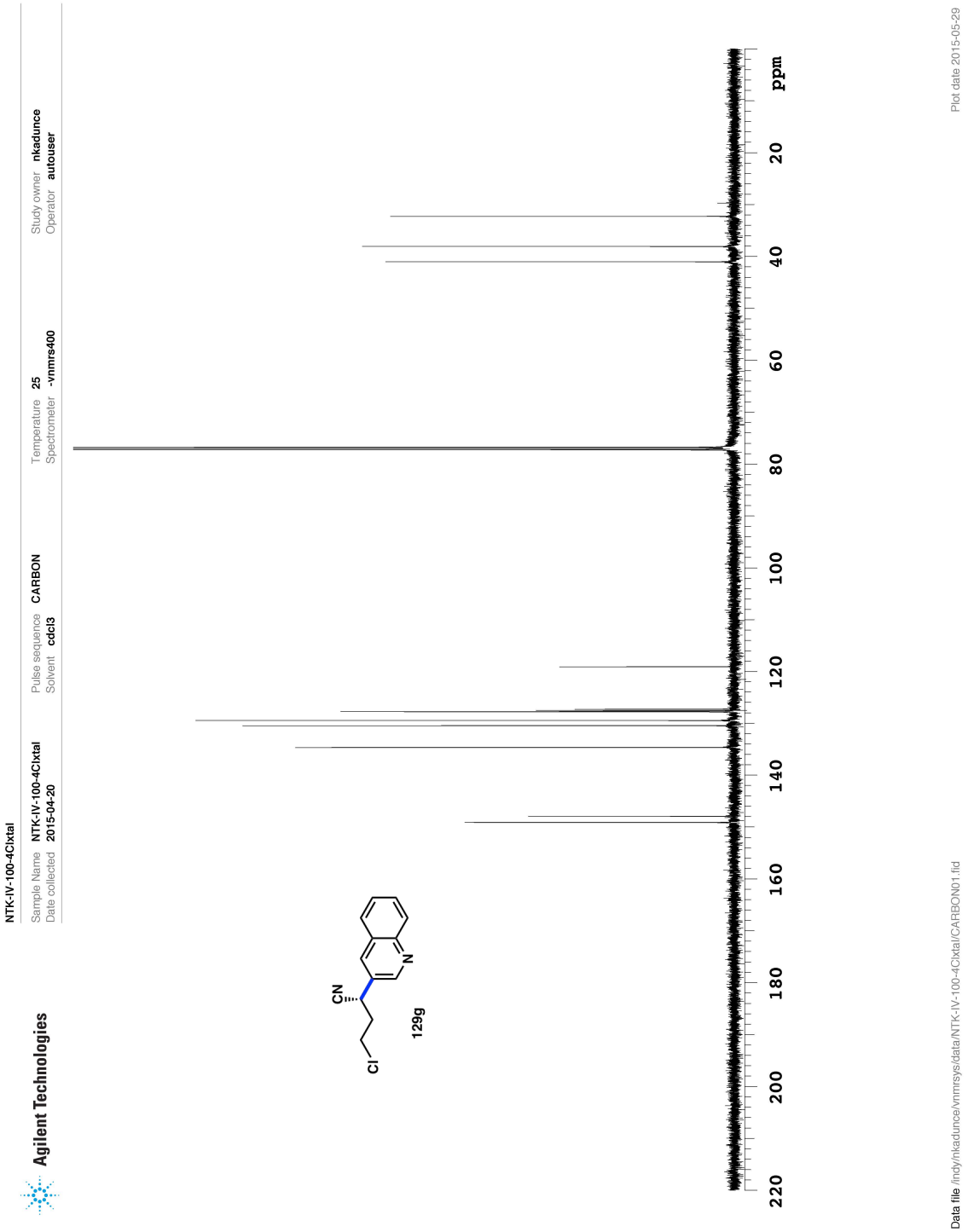

NTK-IV-86-xtal
Agilent Technologies
Sample Name NTK-IV-86-xtal
Date collected 2015-03-30
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
129e
ppm
0.98
0.93 0.96
0.96 0.98 0.99
2.72
1.91
1.00
2.10
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-86-xtal/PROTON01.fid
Plot date 2015-05-29

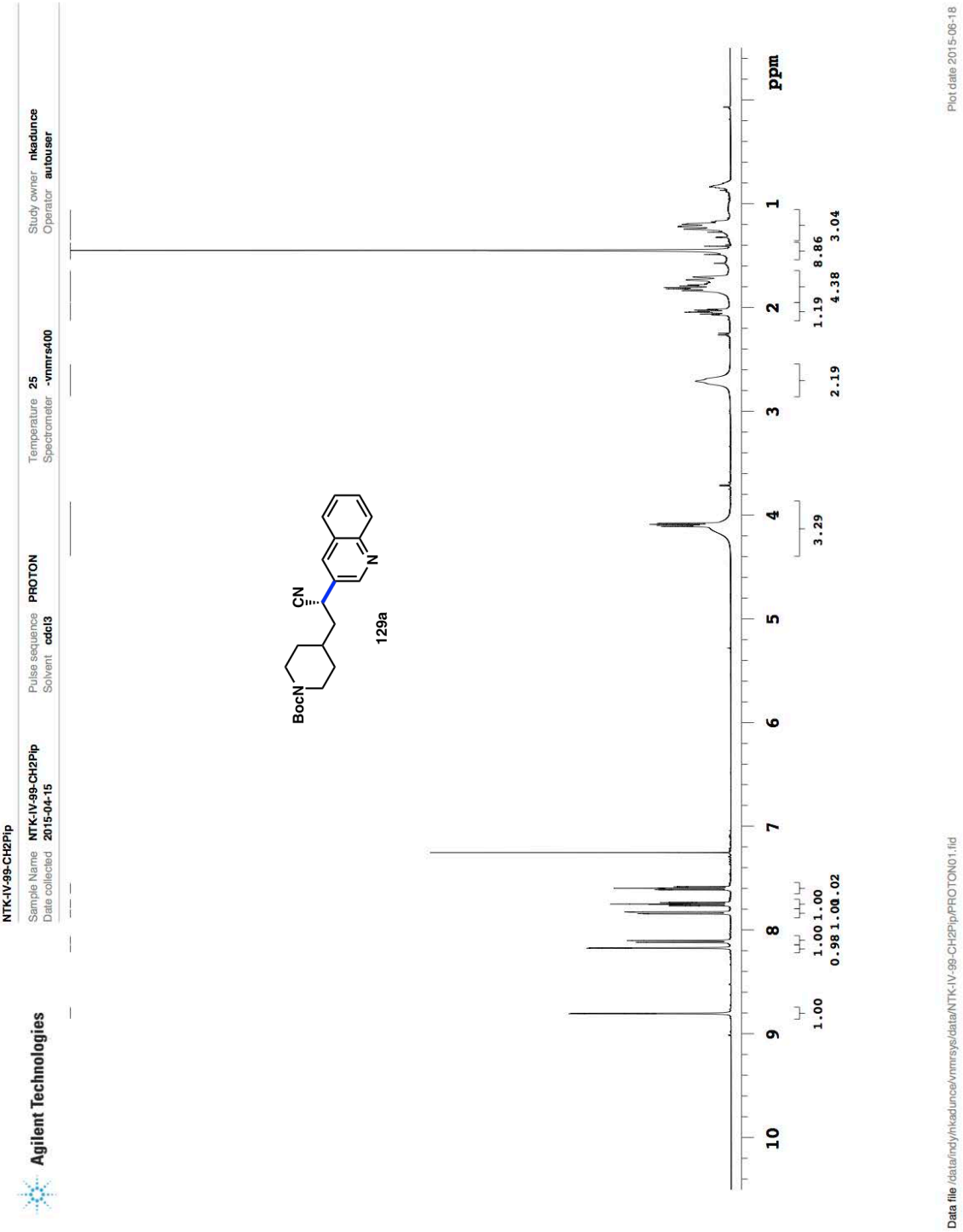

NTK-IV-Bn_13C
Agilent Technologies
Sample Name NTK-IV-Bn_13C
Date collected 2015-06-03
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
129e
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-Bn_13C/CARBON01.fid
Plot date 2015-06-04

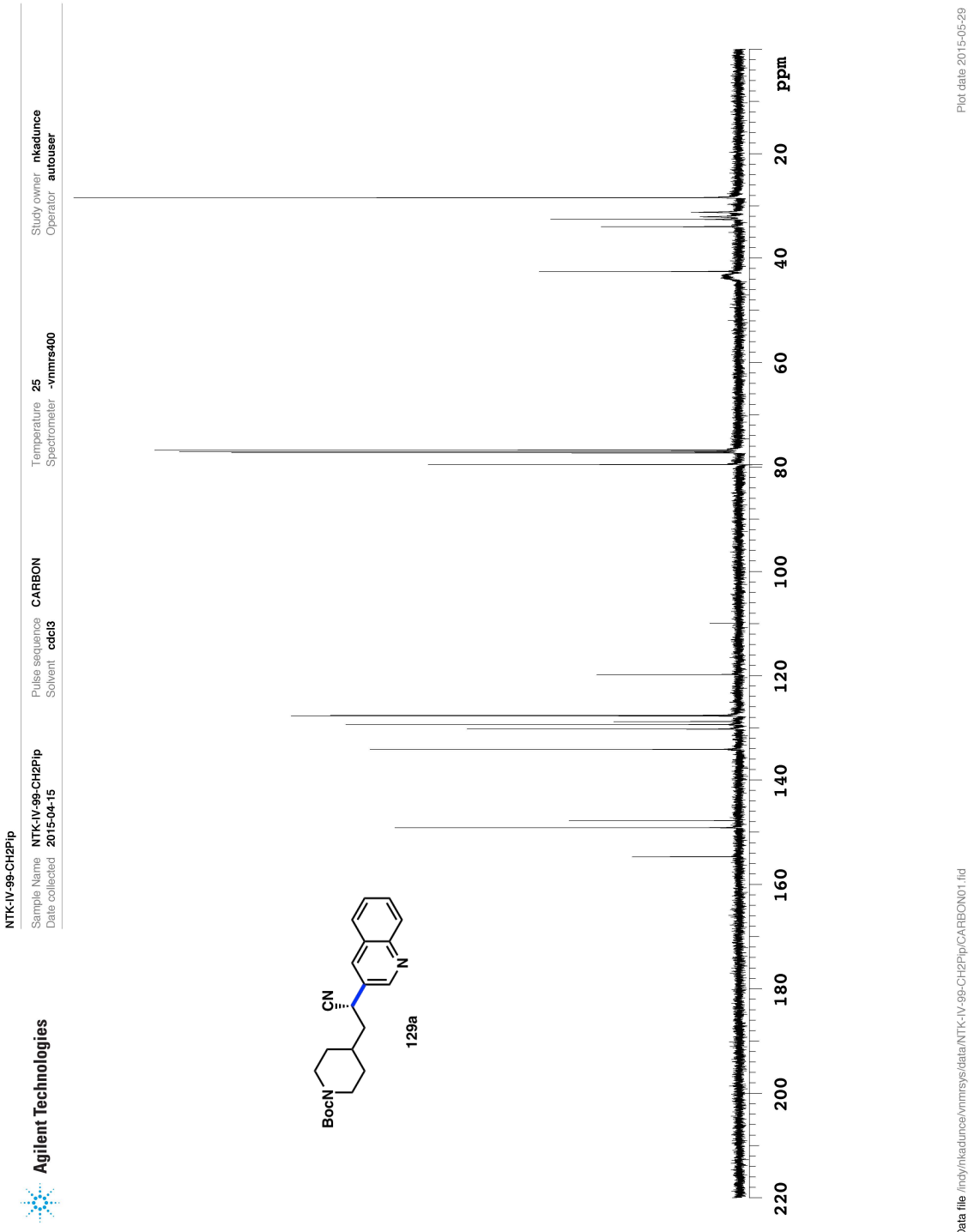

NTK-IV-99-CO2Et
Agilent Technologies
Sample Name NTK-IV-99-CO2Et
Date collected 2015-04-16
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
EtO
O
N
129f
ppm
10
9
8
7
6
5
4
3
2
1
0.89
0.95
1.06
1.77
0.94
1.91
0.93
2.38
2.00
3.40
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-99-CO2Et/PROTON02.fid
Plot date 2015-05-29

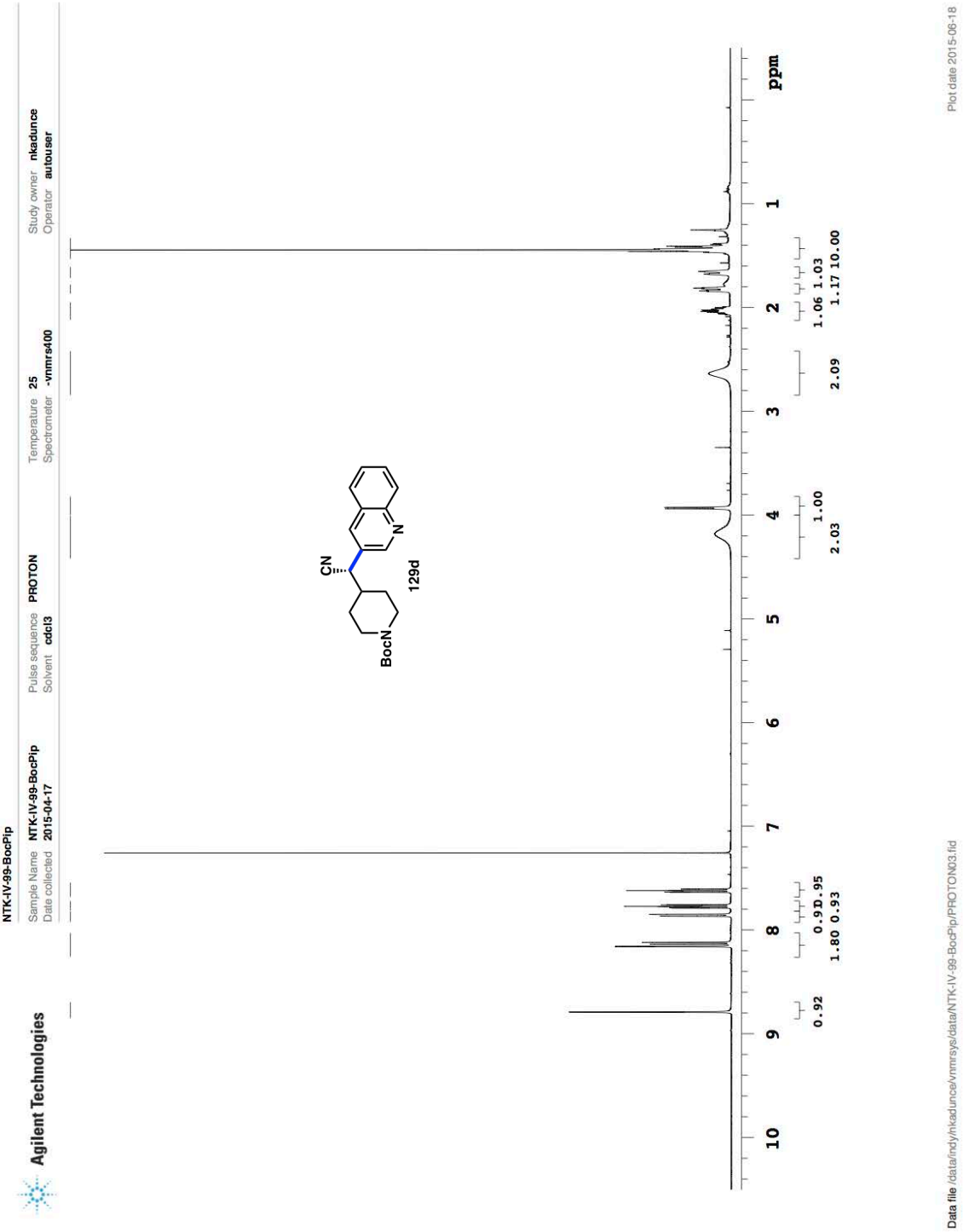

NTK-IV-99-CO2Et
Agilent Technologies
Sample Name NTK-IV-99-CO2Et
Date collected 2015-04-16
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
EtO
O
N
129f
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-99-CO2Et/CARBON01.fid

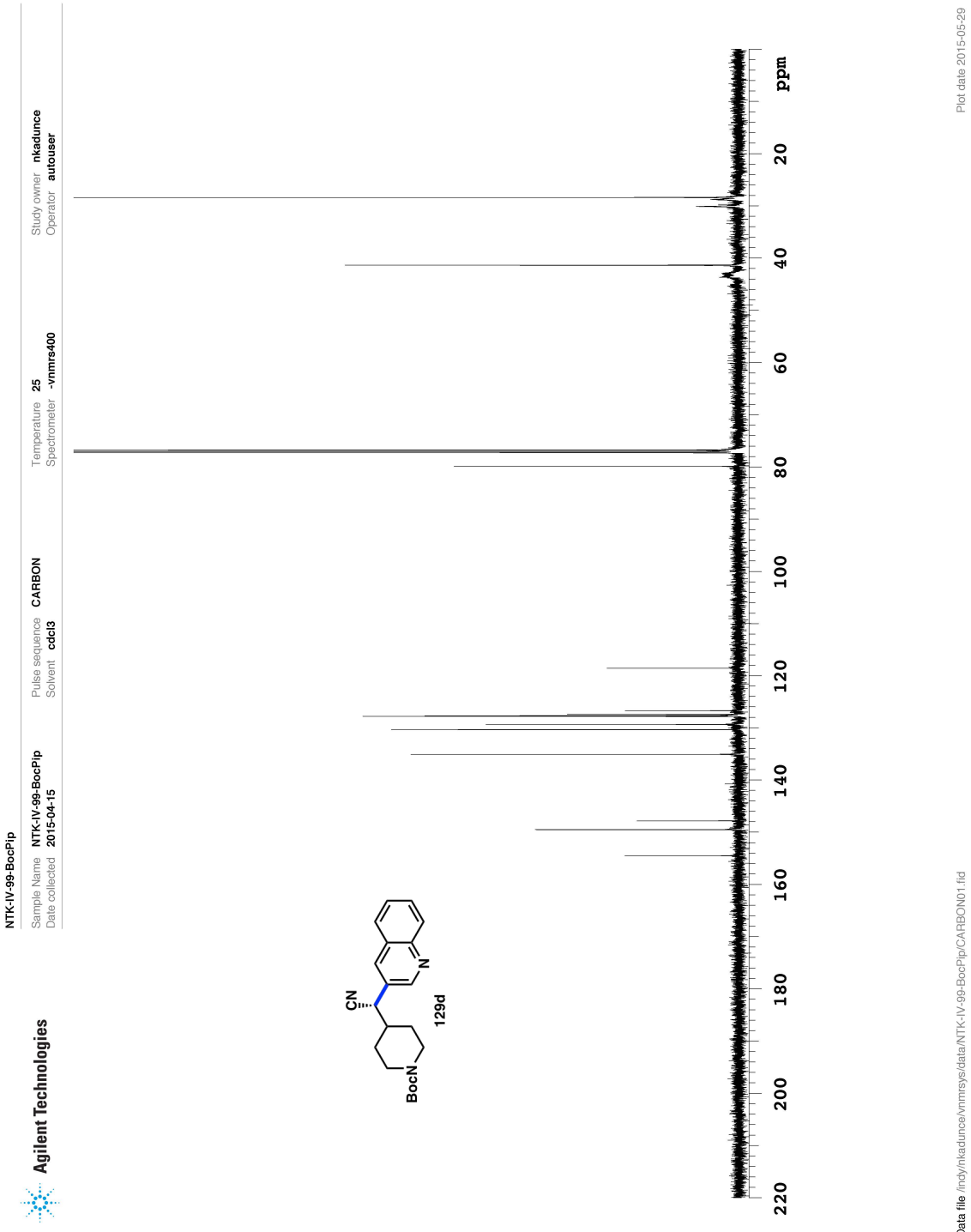

NTK-IV-100-4Clxtal
Agilent Technologies
Sample Name NTK-IV-100-4Clxtal
Date collected 2015-04-20
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
N
129g
10 9 8 7 6 5 4 3 2 1 ppm
0.91
0.93 0.96
0.94 0.90.96
0.95
1.00
1.01
1.02
1.01
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-100-4Clxtal/PROTON01.fid
Plot date 2015-05-29

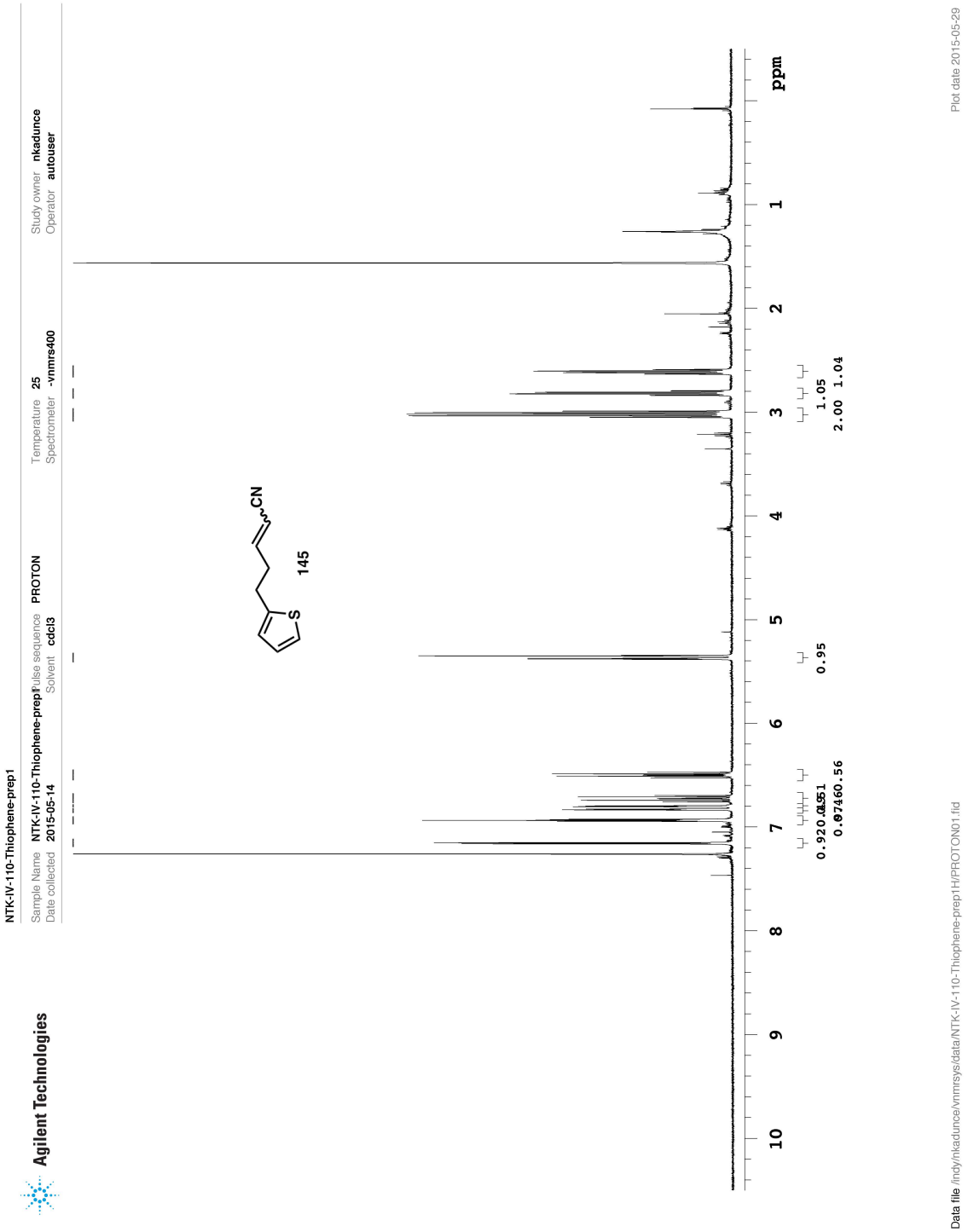

NTK-IV-100-4Cixtal
Agilent Technologies
Sample Name NTK-IV-100-4Cixtal
Date collected 2015-04-20
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
Cl
N
129g
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-100-4Cixtal/CARBON01.fid
Plot date 2015-05-29


NTK-IV-99-CH2Pip
Agilent Technologies
Sample Name NTK-IV-99-CH2Pip
Date collected 2015-04-15
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
CN
N
129a
ppm
1.00
1.00 1.00
0.98 1.00 1.02
3.29
2.19
1.19
4.38
8.86
3.04
Data file /data/mdy/nkadunce/vnmrsys/data/NTK-IV-99-CH2Pip/PROTON01.fid
Plot date 2015-06-18

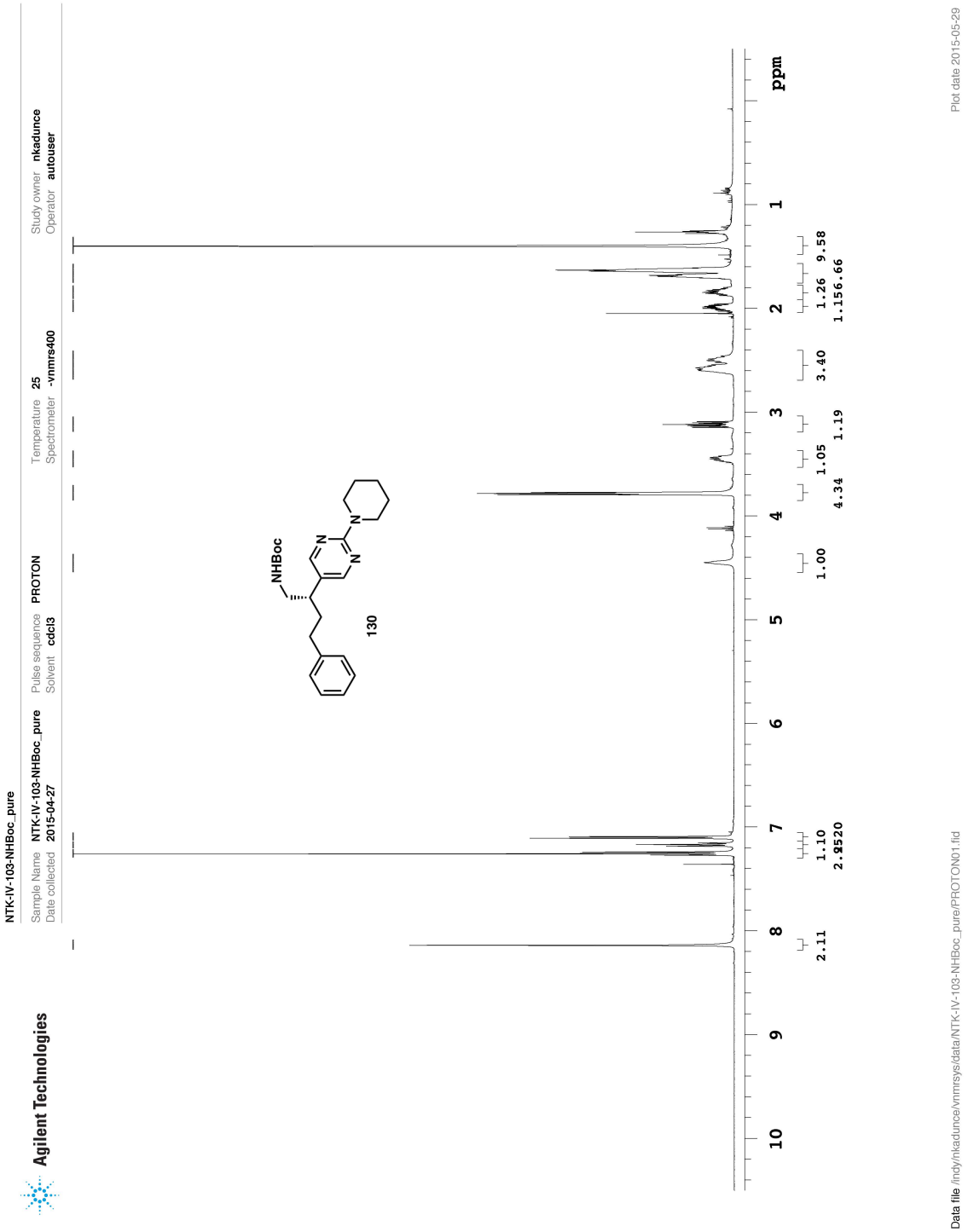

NTK-IV-99-CH2Pip
Agilent Technologies
Sample Name NTK-IV-99-CH2Pip
Date collected 2015-04-15
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
BocN
CN
N
129a
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-99-CH2Pip/CARBON01.fid

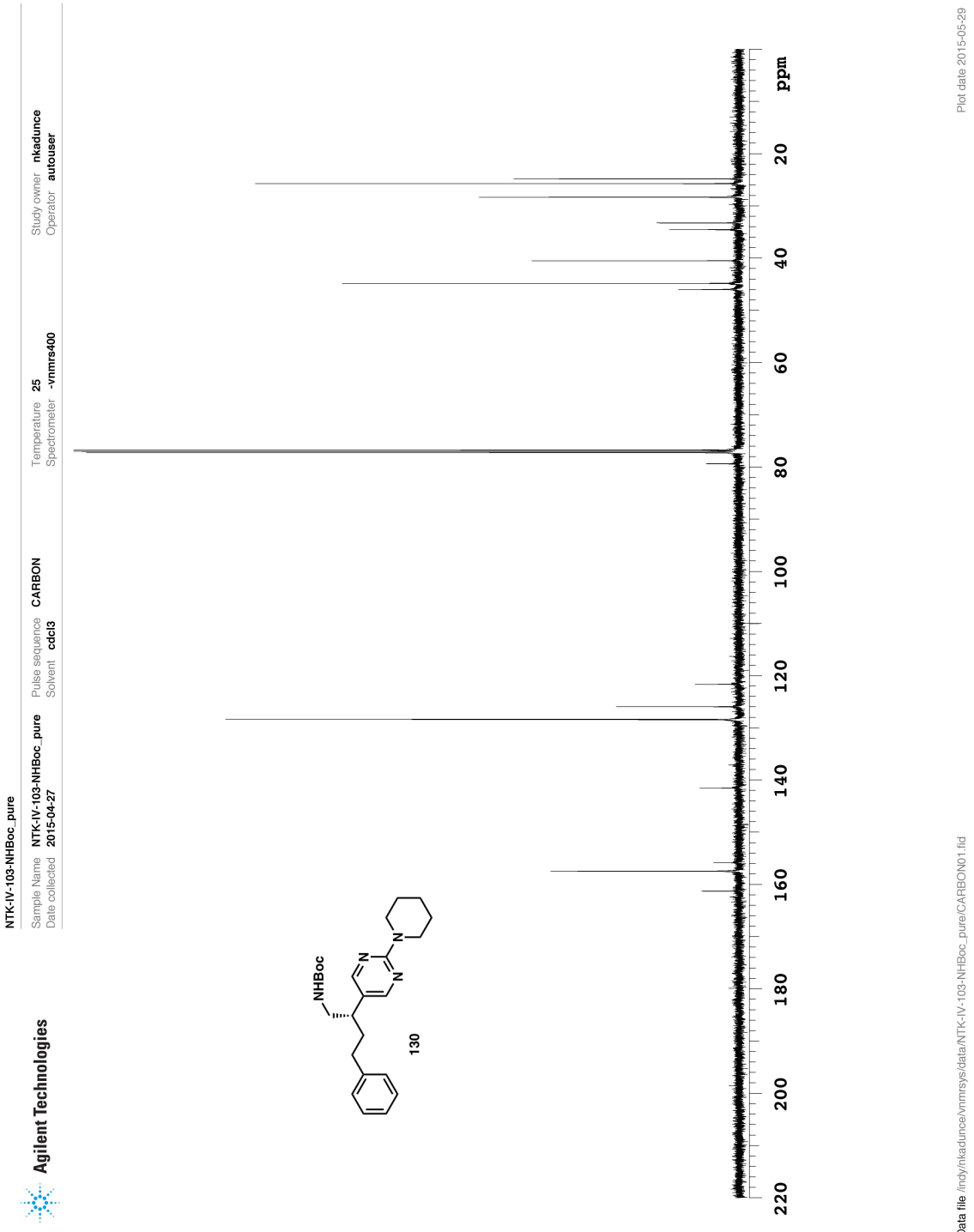

NTK-IV-99-BocPip
Agilent Technologies
Sample Name NTK-IV-99-BocPip
Date collected 2015-04-17
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
BocN
N
129d
ppm
10
9
8
7
6
5
4
3
2
1
0.92
0.95
1.80 0.93
1.00
2.03
2.09
1.06 1.03
1.17 10.00
Data file /data/indy/nkadunce/vnmrsys/data/NTK-IV-99-BocPip/PROTON03.fid
Plot date 2015-06-18

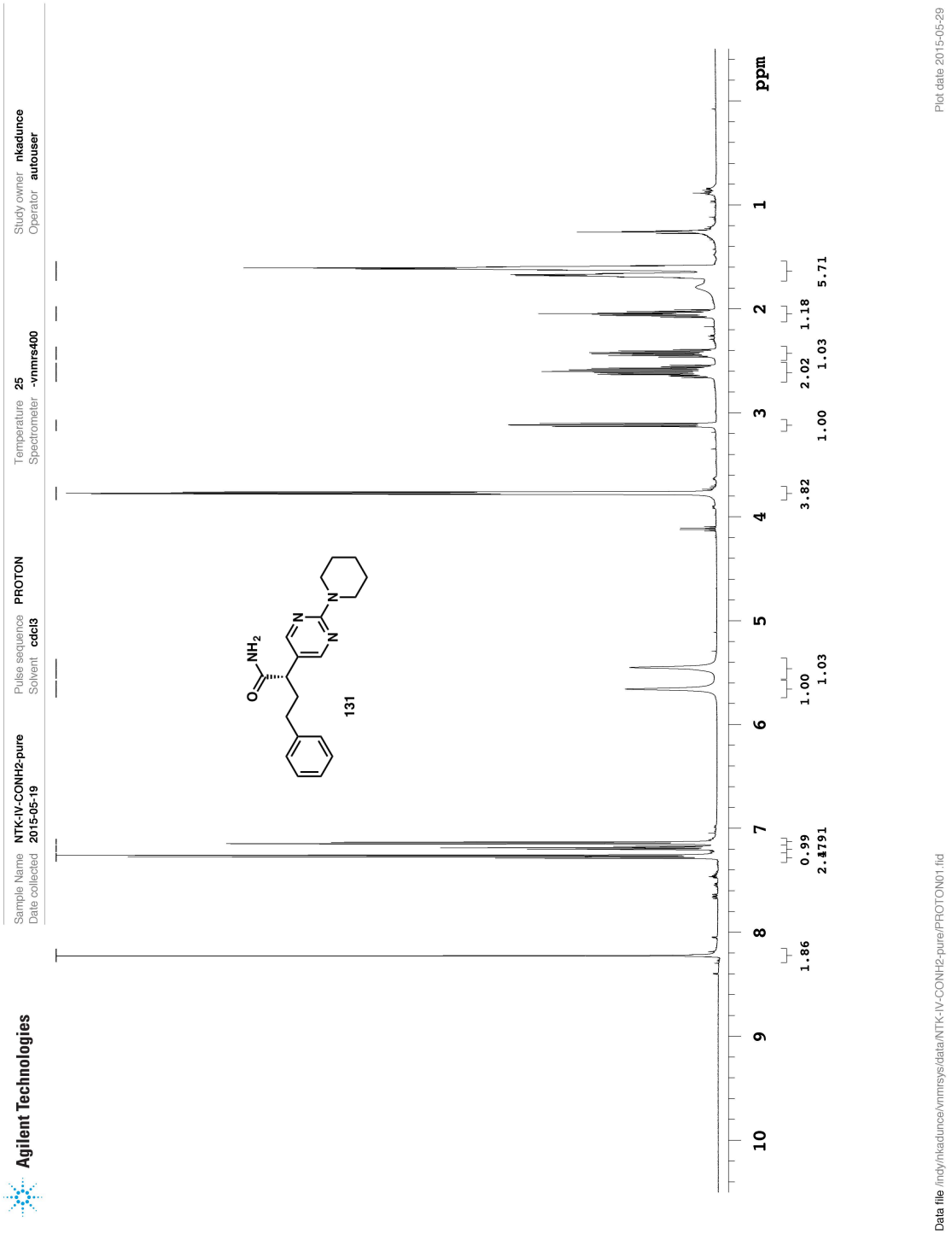

NTK-IV-99-BocPip
Agilent Technologies
Sample Name NTK-IV-99-BocPip
Date collected 2015-04-15
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
N
BocN
129d
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-99-BocPip/CARBON01.fid
Plot date 2015-05-29

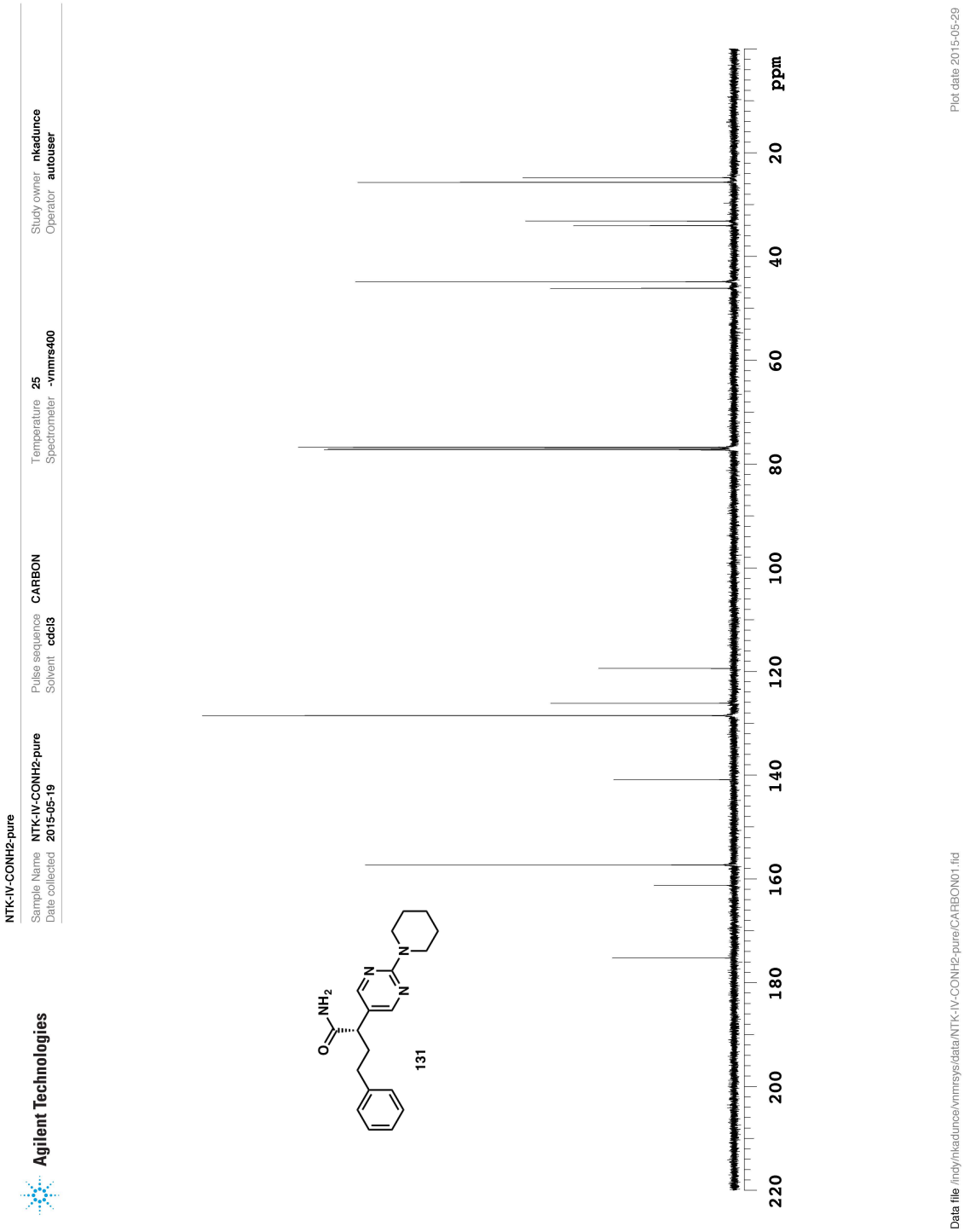

NTK-IV-110-Thiophene-prep1
Agilent Technologies
Sample Name NTK-IV-110-Thiophene-prep1
Date collected 2015-05-14
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
S
145
ppm
0.92 0.91
0.87 460.56
0.95
1.05
2.00 1.04
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-110-Thiophene-prep1H/PROTON01.fid
Plot date 2015-05-29

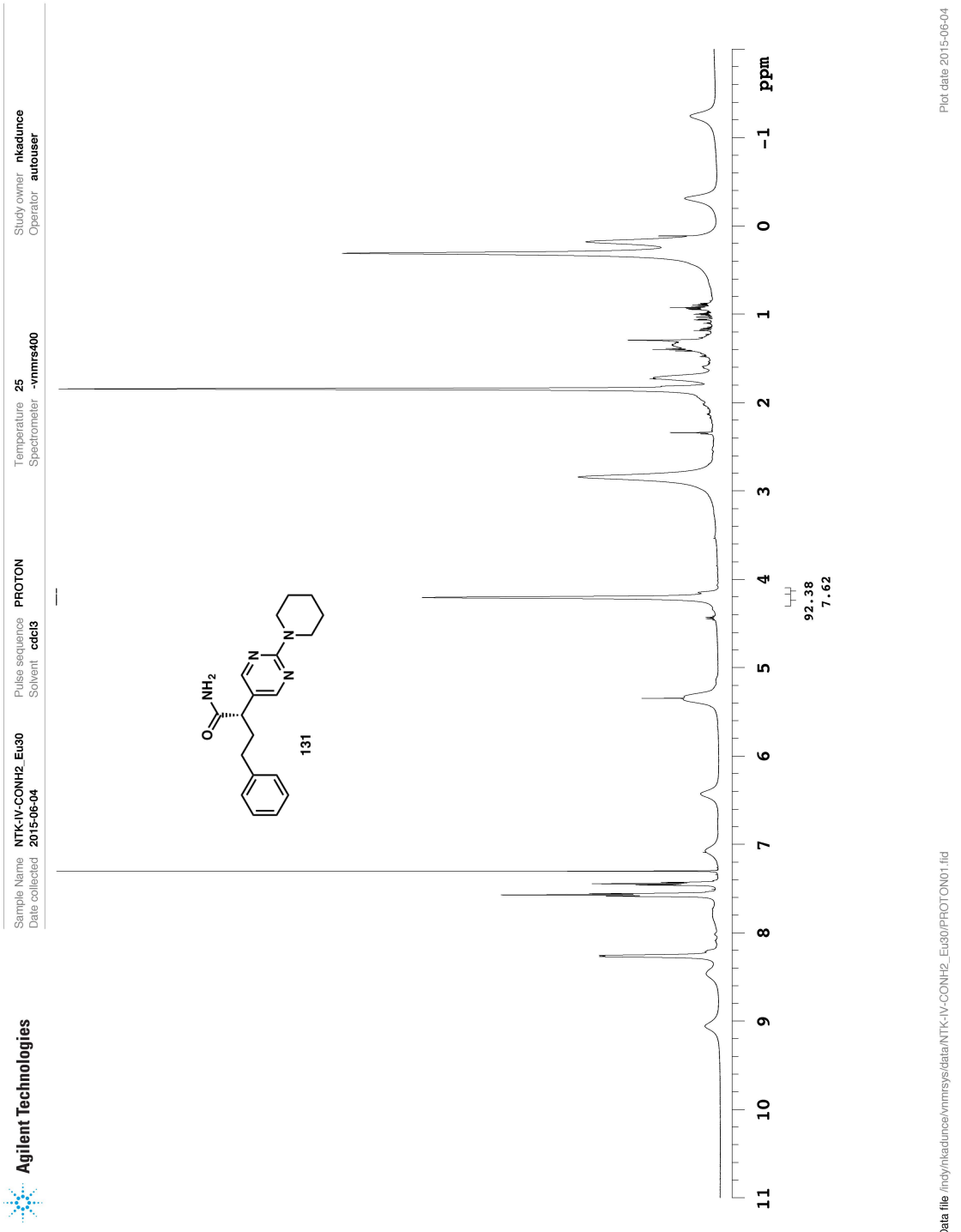
NTK-IV-110-Thiophene-Prep1
Agilent Technologies
Sample Name NTK-IV-110-Thiophene-Prep1
Date collected 2015-05-14
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
CN
S
145
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-110-Thiophene-Prep1C/CARBON01.fid
Plot date 2015-05-29


NTK-IV-103-NHBoc_pure
Agilent Technologies
Sample Name NTK-IV-103-NHBoc_pure
Date collected 2015-04-27
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
NHBoc
130
ppm
10
9
8
7
6
5
4
3
2
1
2.11
1.10
2.9520
1.00
4.34
1.05
1.19
3.40
1.26
9.58
1.156.66
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-103-NHBoc_pure/PROTON01.fid
Plot date 2015-05-29


NTK-IV-103-NHBoc_pure
Agilent Technologies
Sample Name NTK-IV-103-NHBoc_pure
Date collected 2015-04-27
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
NHBoc
130
220 200 180 160 140 120 100 80 60 40 20 ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-103-NHBoc_pure/CARBON01.fid
Plot date 2015-05-29


NTK-IV-CONH2-pure
Agilent Technologies
Sample Name NTK-IV-CONH2-pure
Date collected 2015-05-19
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
131
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CONH2-pure/PROTON01.fid
Plot date 2015-05-29

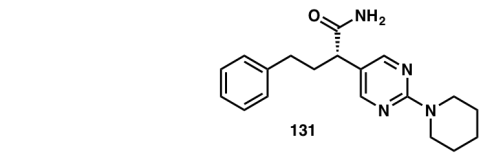

NTK-IV-CONH2-pure
Agilent Technologies
Sample Name NTK-IV-CONH2-pure
Date collected 2015-05-19
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
NH2
O
N
N
N
131
220
200
180
160
140
120
100
80
60
40
20
ppm
Plot date 2015-05-29
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CONH2-pure/CARBON01.fid


NTK-IV-CONH2_Eu30
Agilent Technologies
Sample Name NTK-IV-CONH2_Eu30
Date collected 2015-06-04
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
131
92.38
7.62
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CONH2_Eu30/PROTON01.fid
Plot date 2015-06-04

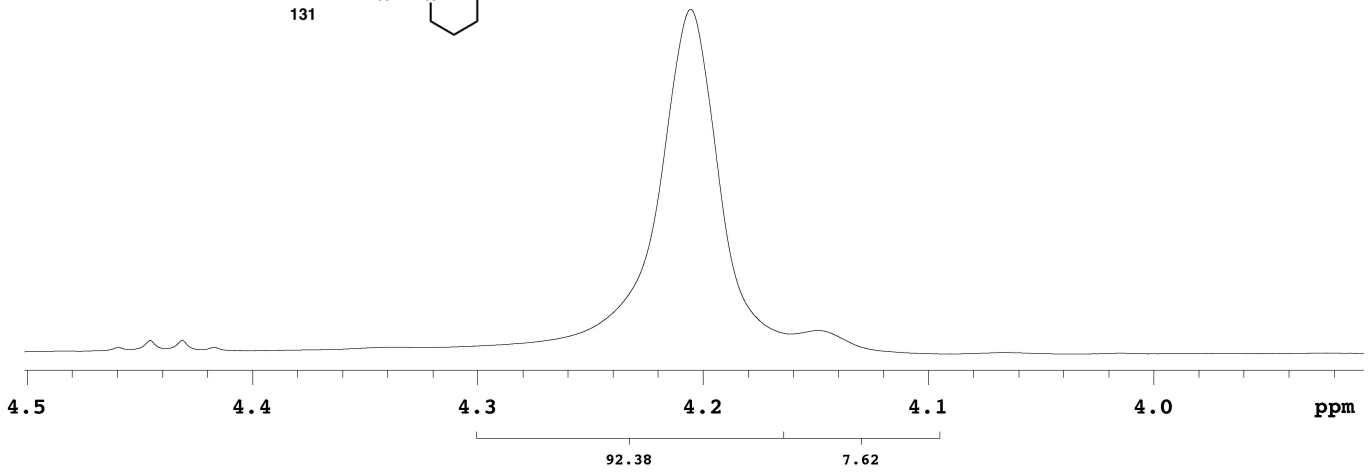
Agilent Technologies

NTK-IV-CONH2_Eu30

Sample Name	NTK-IV-CONH2_Eu30	Pulse sequence	PROTON	Temperature	25	Study owner	nkadunce
Date collected	2015-06-04	Solvent	cdcl3	Spectrometer	-vnmrs400	Operator	autouser

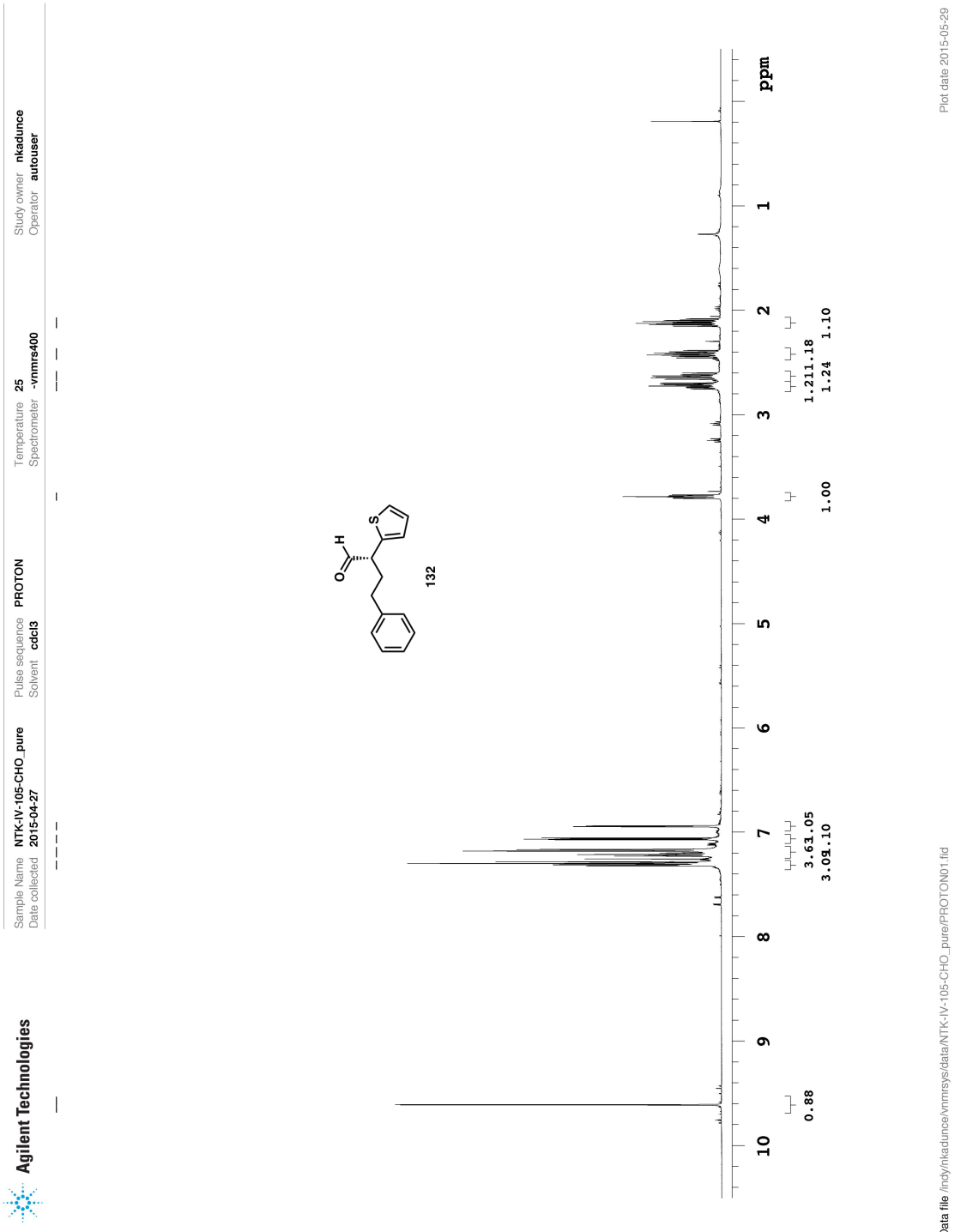


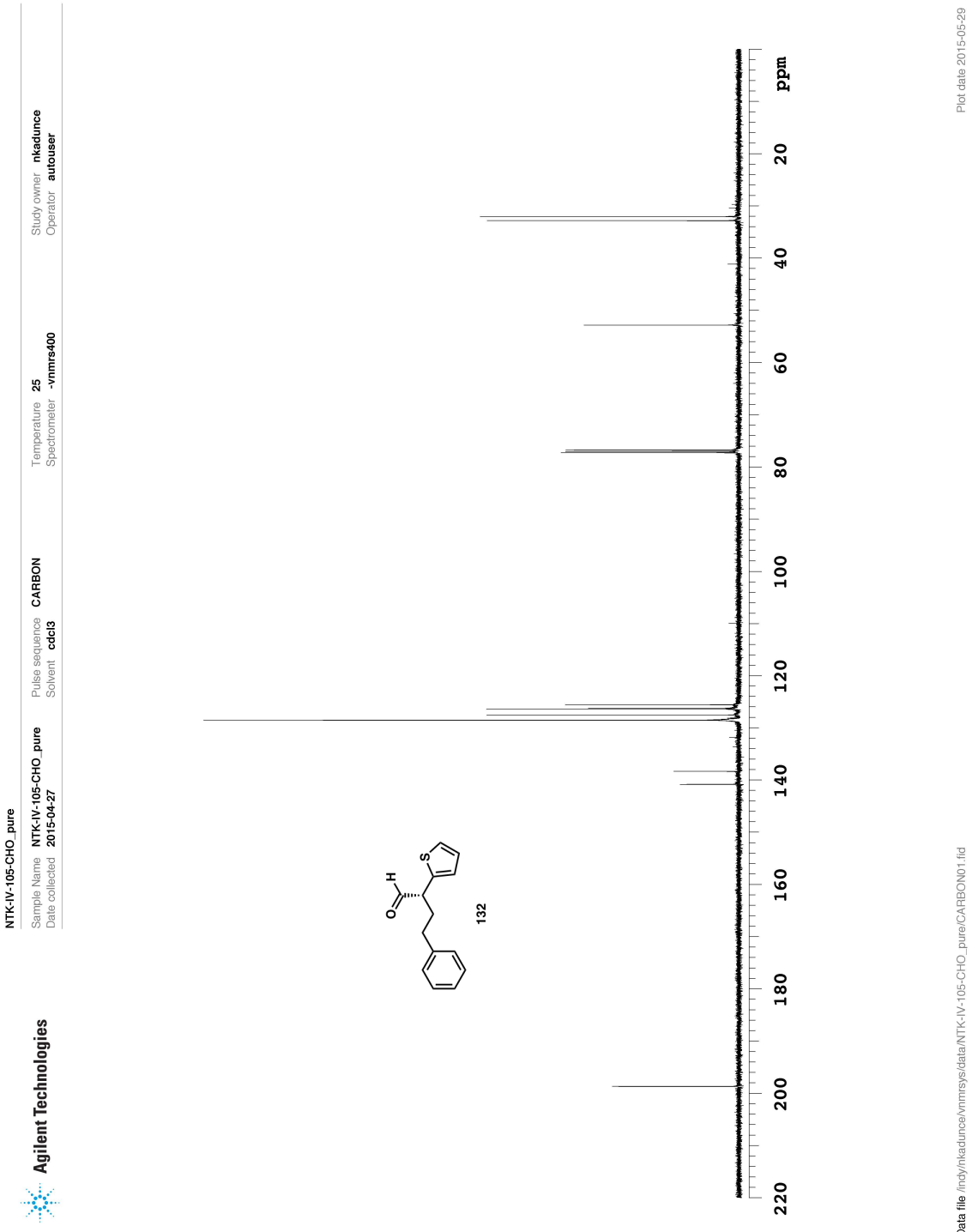
131



Data file /indy/nkadunce/vnmrsys/data/NTK-IV-CONH2_Eu30/PROTON01.fid

Plot date 2015-06-04


NTK-IV-105-CHO_pure
Agilent Technologies
Sample Name NTK-IV-105-CHO_pure
Date collected 2015-04-27
Pulse sequence PROTON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
132
ppm
0.88
3.63.05
3.04.10
1.00
1.24 1.10
1.211.18
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-105-CHO_pure/PROTON01.fid
Plot date 2015-05-29


NTK-IV-105-CHO_pure
Agilent Technologies
Sample Name NTK-IV-105-CHO_pure
Date collected 2015-04-27
Pulse sequence CARBON
Solvent cdcl3
Temperature 25
Spectrometer -vnmrs400
Study owner nkadunce
Operator autouser
O
H
S
132
220
200
180
160
140
120
100
80
60
40
20
ppm
Data file /indy/nkadunce/vnmrsys/data/NTK-IV-105-CHO_pure/CARBON01.fid
Plot date 2015-05-29