

Oligonucleotide Transition State Analogues of Saporin L3

Supporting Information

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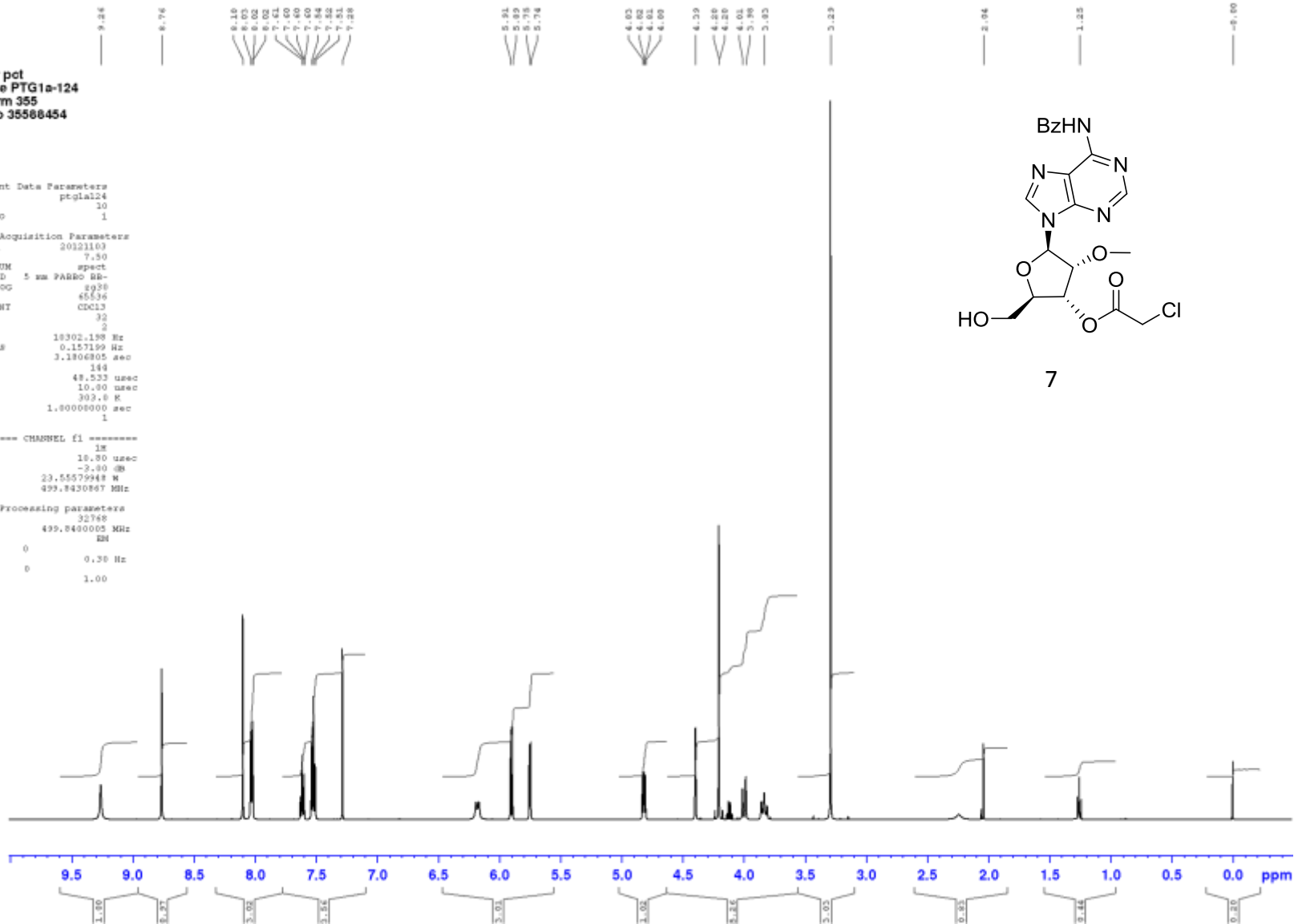
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^1H NMR
500 MHz

Owner pct
Sample PTG1a-124
Platform 355
Job No 35566454

Current Data Parameters
NAME ptg1a124
EXPNO 10
PROCNO 1
F2 - Acquisition Parameters
Date_ 20121103
Time 7.50
INSTRUM spect
PROBHD 5 mm PARBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 18302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1806805 sec
RG 144
DW 48.533 usec
DE 10.80 usec
TE 303.2 K
DL 1.9000800 sec
TD0 1

----- CHANNEL f1 -----
SFO1 18
P1 18.00 usec
PL1 -2.00 dB
PL1W 23.55579948 W
SFO1 499.8420867 MHz
F2 - Processing parameters
SI 32768
SF 499.8400005 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz

Owner pct
Sample FTG1a-124
Platform 355
Job No 35588454

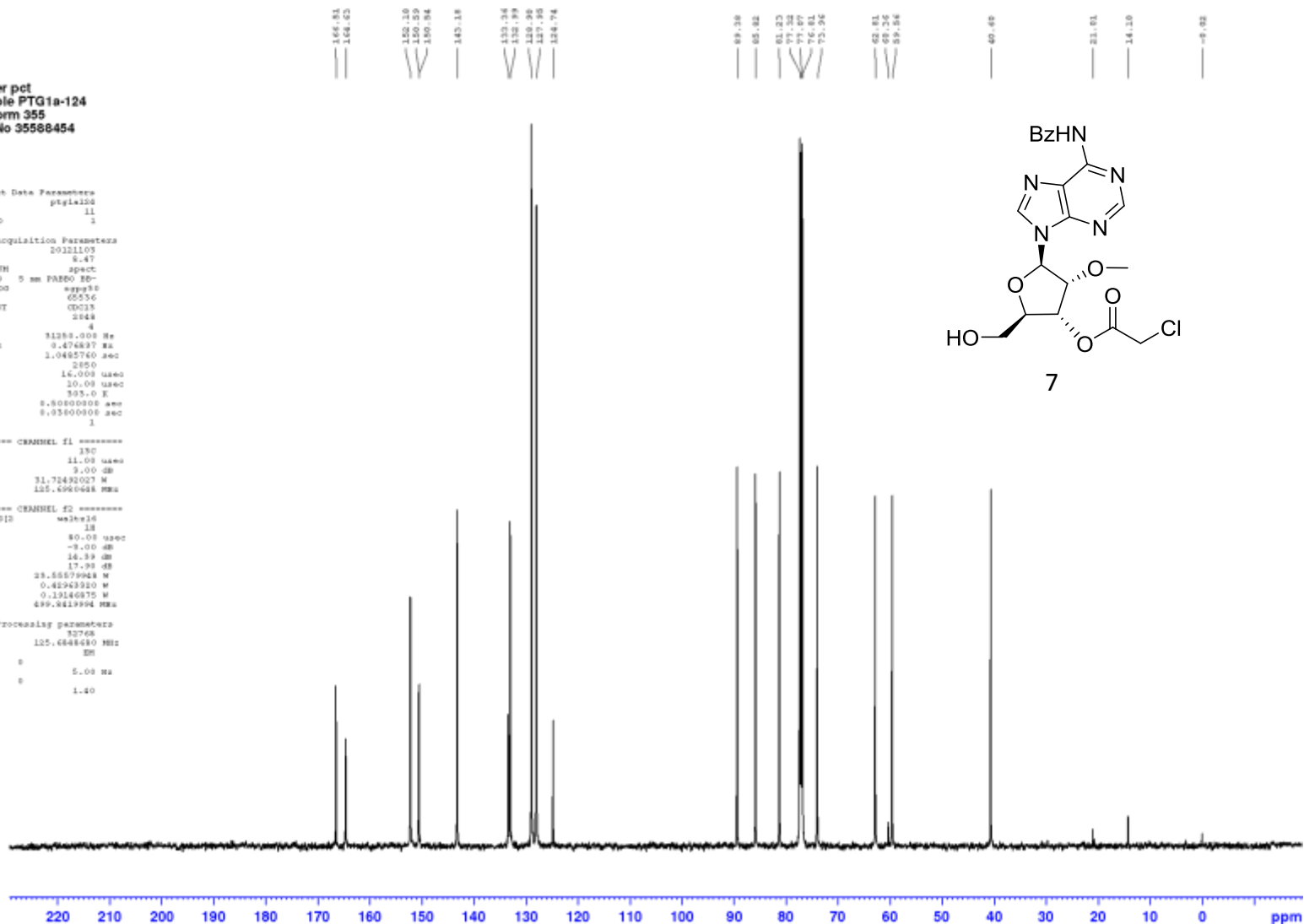
Current Data Parameters
NAME pgl124
EXPNO 11
PROCNO 3

F2 - Acquisition Parameters
Date_ 2011103
Time 8.47
INSTRUM spect
PROBHD 5 mm PABBO 50-
PULPROG zgpg30
ID 65556
SOLVENT CDCl3
NS 2048
DS 4
SWH 31254.004 Hz
FIDRES 0.474827 Hz
AQ 1.0485740 sec
RG 2850
DW 16.009 usec
DE 10.08 usec
TE 303.0 K
D1 0.8000000 sec
D11 0.3300000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 11.09 usec
PL1 0.00 dB
PL1W 31.7249207 W
RF01 125.690648 MHz

===== CHANNEL f2 =====
CPDPRG12 waltz16
NUC2 1H
PCPD0 80.00 usec
PL2 -9.00 dB
PL12 14.39 dB
PL13 17.35 dB
PL2W 28.5507994 W
PL12W 0.4294320 W
PL13W 0.19146975 W
RF02 499.9419994 MHz

F2 - Processing parameters
SI 32768
SF 125.688480 MHz
WDW EM
SSB 0
LB 5.00 Hz
GB 0
PC 1.40



¹H NMR
500 MHz

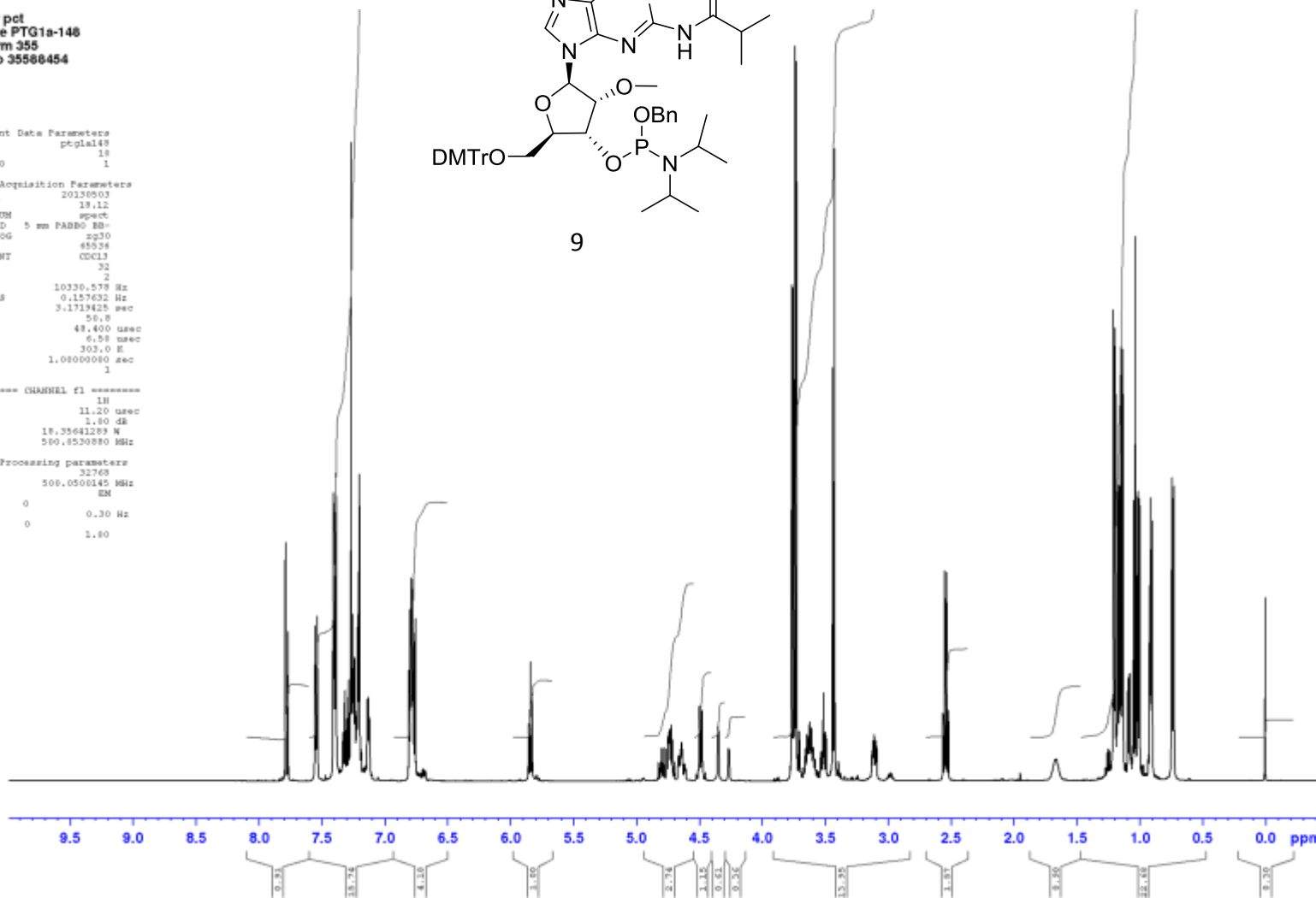
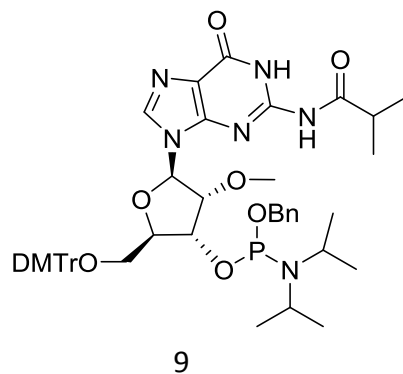
Owner pct
Sample PTG1a-146
Platform 355
Job No 35588454

Current Data Parameters
NAME ptg1a146
EXPNO 18
PROCNO 1

F2 - Acquisition Parameters
Date_ 20130903
Time 19.12
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45524
SOLVENT CDCl3
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.1576032 Hz
AQ 3.1719425 sec
RG 56.8
EM 49.400 usec
DE 6.58 usec
TE 303.0 K
D1 1.08000080 sec
TD0 1

***** CHANNEL f1 *****
NUC1 1H
P1 11.20 usec
PL1 1.80 dB
PS1W 18.35642283 N
SF01 500.8530080 MHz

F2 - Processing parameters
SI 32768
SF 500.0506145 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.80



^{13}C NMR
126 MHz

Owner pct
Sample PTG1a-148
Platform 355
Job No 35588454

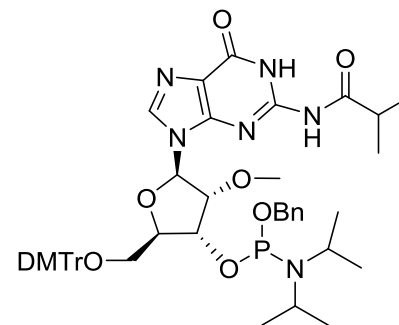
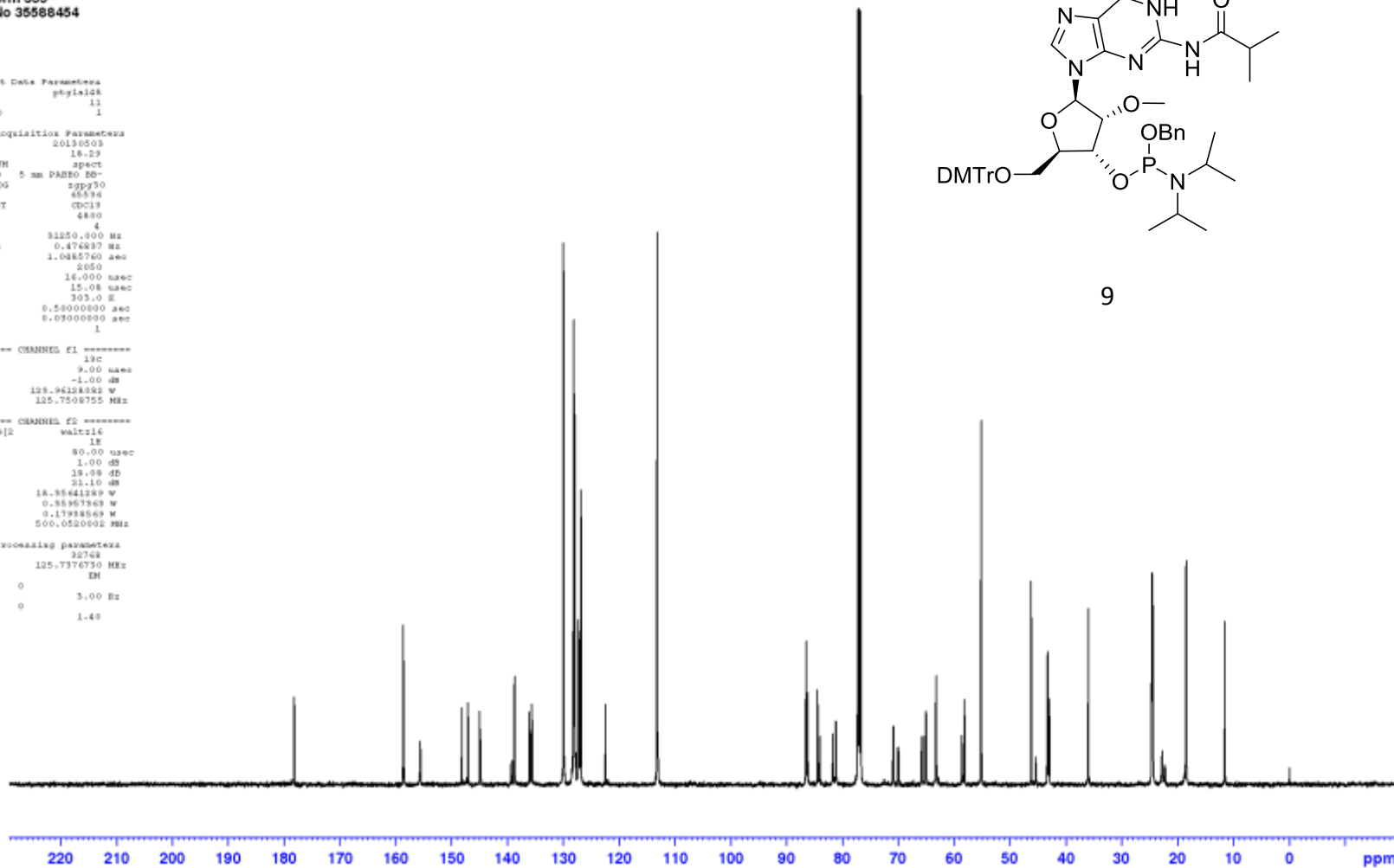
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Current Data Parameters
NAME      ptg1a148
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20130503
Time      18:29
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        4880
DS        4
SWH        31250.000 Hz
FIDRES    0.474897 Hz
AQ        1.0485760 sec
RG        2050
DW        16.000 usec
DE        15.08 usec
TE        303.0 K
D1        0.58000800 sec
D11       0.09000800 sec
TD0       1

===== CHANNEL f1 =====
NUC1      13C
P1        9.00 usec
PL1       -1.00 dB
PL1W      125.9422882 W
SFO1      125.7508755 MHz

===== CHANNEL f2 =====
PCPDPRG2  waltz16
NUC2      1H
PCPD2     80.00 usec
PL2       1.00 dB
PL12      18.98 dB
PL13      21.10 dB
PL1W      18.85641289 W
PL12W     0.88967369 W
PL13W     0.17938569 W
SFO2      500.0520002 MHz

F2 - Processing parameters
SI        32768
SF        125.7376730 MHz
WDW       EM
SSB       0
LB        3.00 Hz
GB        0
FC        1.48
```



9

**³¹P NMR
202 MHz**

Owner pct
Sample PTG1a-148
Platform 355
Job No 35588454

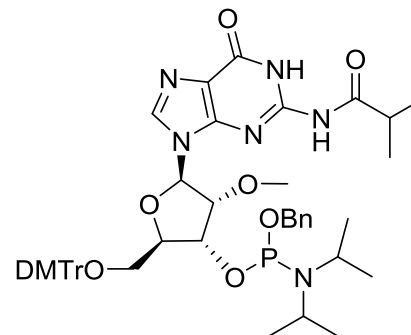
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Current Data Parameters
NAME      ptg1a148
EXPNO     14
PROCNO    1

F2 - Acquisition Parameters
Date_     20130503
Time      21:41
DATEIN    spect
PROBHD    5 mm PAREO EO-
PULPROG   zgpg30
TD         131072
SOLVENT   CDCl3
NS         32
DS         4
SWH        81521.742 Hz
FIDRES     0.423943 Hz
AQ         0.2019083 sec
RG         2050
DM         6.133 usec
DE         6.58 usec
TE         303.0 K
D1         2.0000000 sec
D11        0.0300000 sec
TD0        1

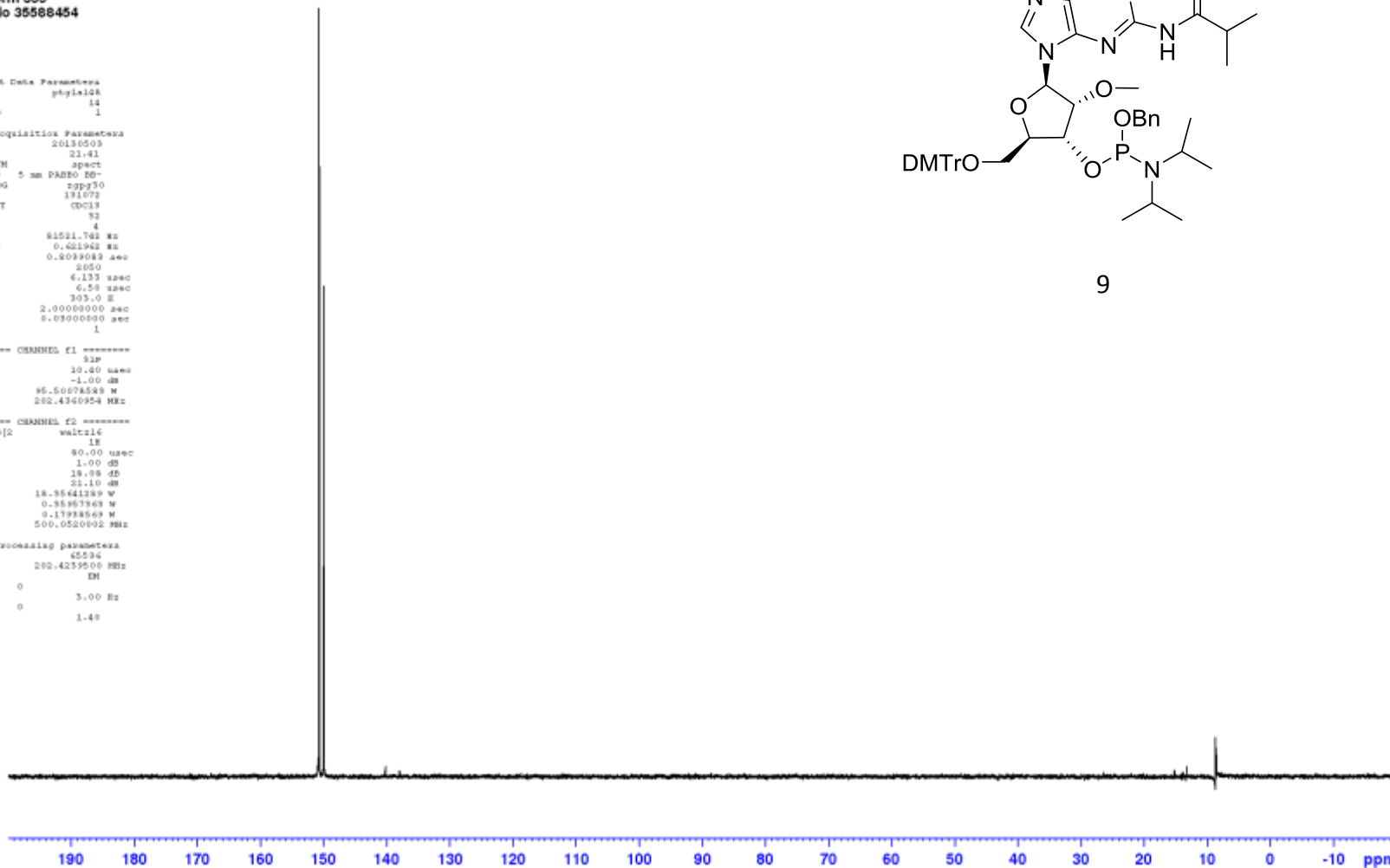
===== CHANNEL f1 =====
NUC1       31P
P1         10.40 usec
PL1        -1.00 dB
PL1M       95.50078549 M
SFO1       202.4360354 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2         1.00 dB
PL12       18.98 dB
PL13       21.10 dB
PL1M       18.35641389 W
PL12M      0.35967369 W
PL13M      0.17988669 W
SFO2       500.0520002 MHz

F2 - Processing parameters
SI         45536
SF         202.4235000 MHz
NUC1       31P
ASD        0
LB          3.00 Hz
GB          0
PC         1.40
```



9



¹³C NMR
126 MHz

Owner pct
Sample PTG1a-129
Platform 355
Job No 35588454

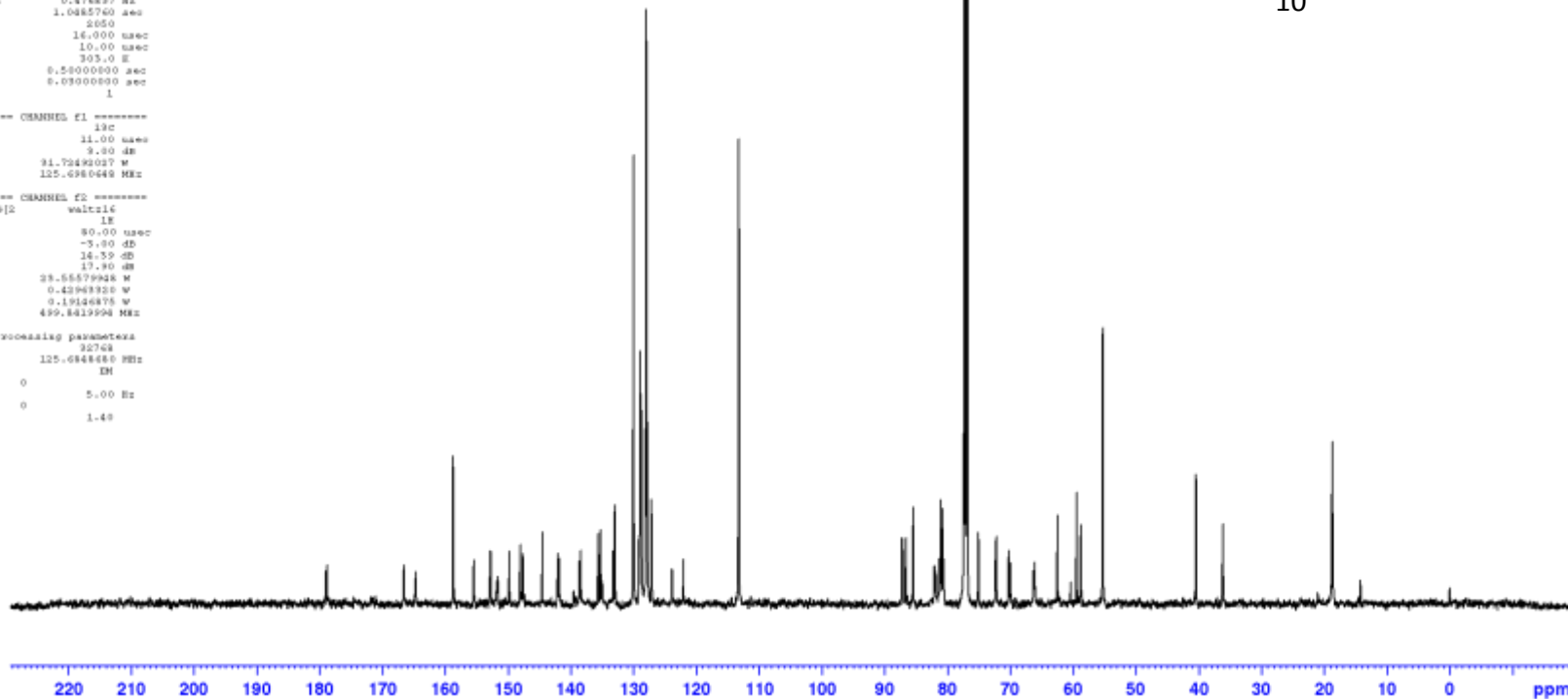
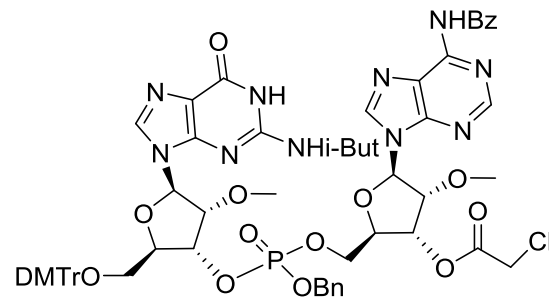
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Current Data Parameters
NAME      ptg1a129
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20130207
Time      18:27
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         2048
DS         4
SWH        31250.000 Hz
FIDRES     0.474897 Hz
AQ         1.0485760 sec
RG         2050
DW         16.000 usec
DE         10.00 usec
TE         303.0 K
D1         0.58000000 sec
D11        0.09000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       13C
P1         11.00 usec
PL1        3.80 dB
PL12W      31.72492027 W
SFO1       125.6980448 MHz

===== CHANNEL f2 =====
PCPDPR2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -3.80 dB
PL12       14.50 dB
PL13       17.40 dB
PL12W      28.55579924 W
PL13W      0.43949320 W
PL13W      0.19146875 W
SFO2       499.8419594 MHz

F2 - Processing parameters
SI         32768
SF         125.6980448 MHz
WDW        EM
SSB        0
LB         5.00 Hz
GB         0
FC         1.48
```



**¹H NMR
500 MHz**

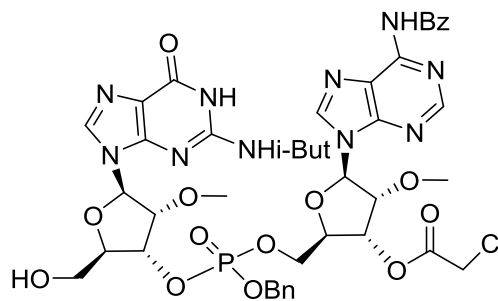
Owner pct
Sample PTG1a-130A
Platform 355
Job No 35588454

Current Data Parameters
NAME ptg1a130a
KEPNO 18
PROCNO 1

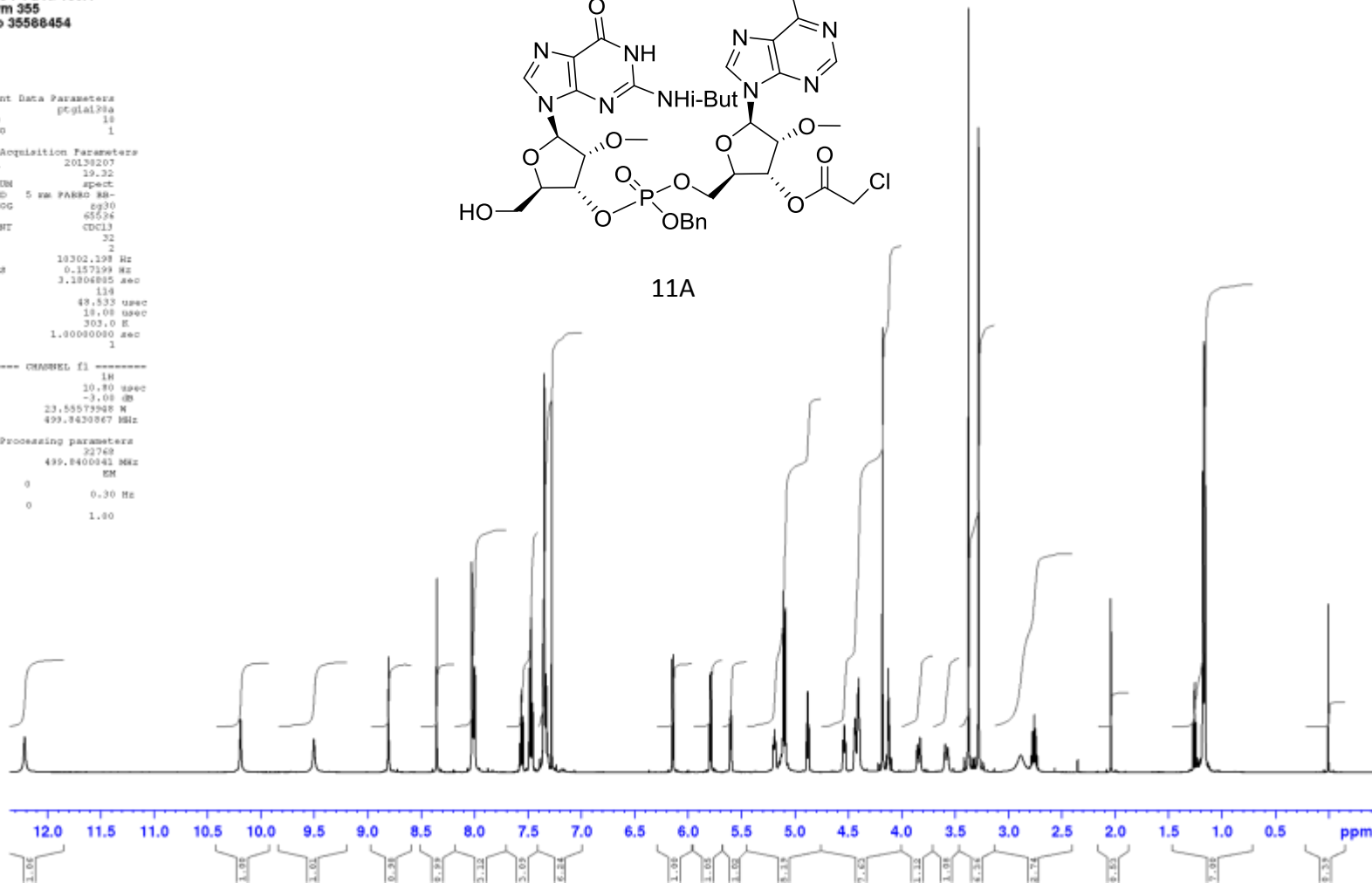
F2 - Acquisition Parameters
Date_ 20130207
Time 19.32
INSTRUM spect
PROBHD 5 mm PARRO 8H-
PULPROG zg30
TD 65524
SOLVENT cdcl3
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1808895 sec
RG 114
DW 49.533 usec
DE 19.08 usec
TE 303.0 K
DL 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 10.00 usec
PL1 -3.00 dB
PL1W 23.55573988 MHz
SFO1 499.9430867 MHz

F2 - Processing parameters
SI 22749
SF 499.9400941 MHz
WDW EM
SSB 0
LB 0 0.30 Hz
GB 0
PC 1.00



11A

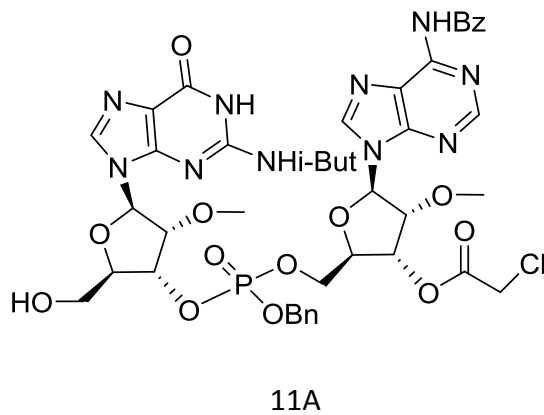


**¹³C NMR
126 MHz**

Owner pct
Sample PTG1a-130A
Platform 355
Job No 35588454

Current Data Parameters
NAME p31a130a
EXPNO 11
PROCNO 1

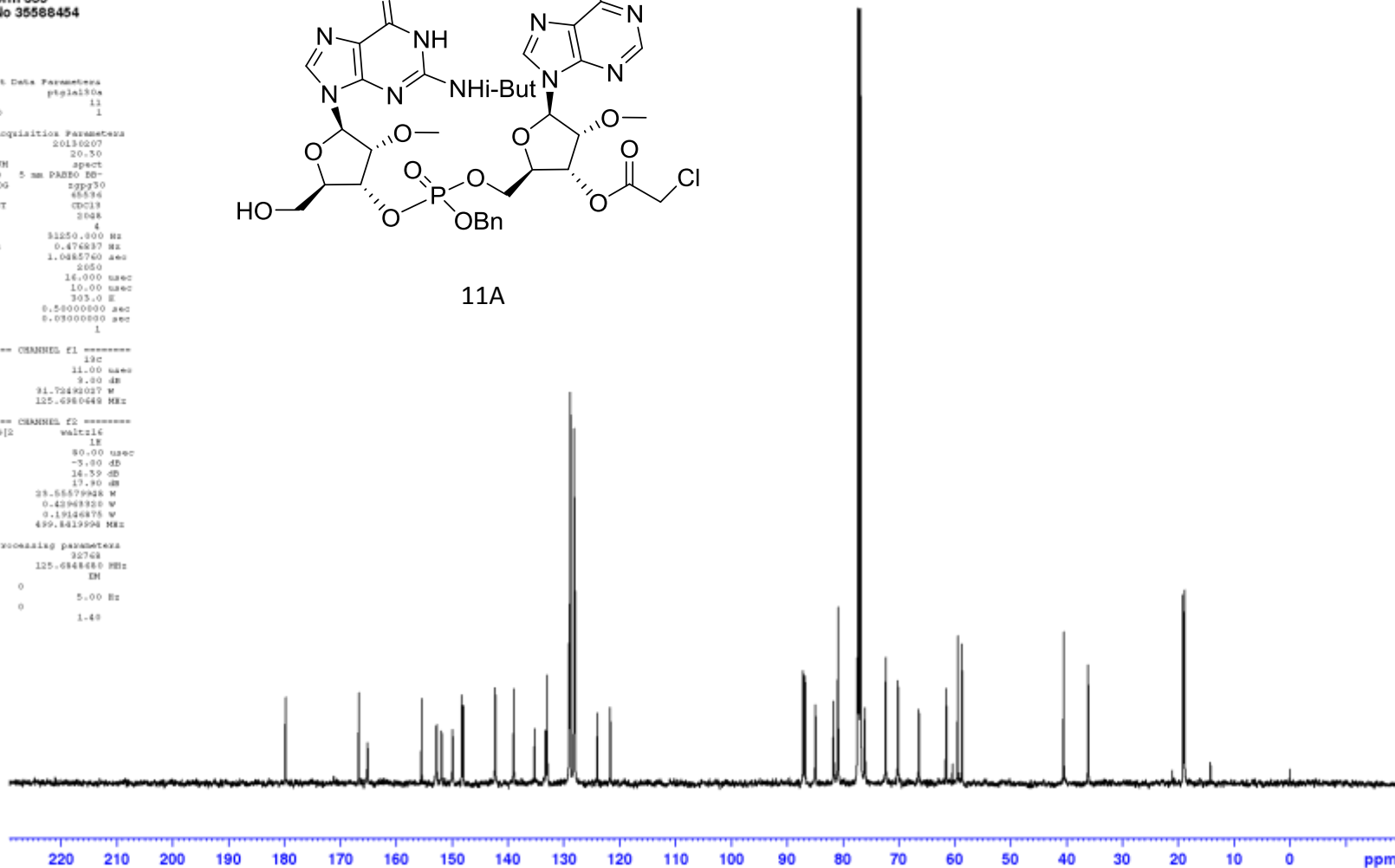
F2 - Acquisition Parameters
Date_ 20130207
Time 20:50
INSTRUM spect
PROBHD 5 mm PABBO DD-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 2048
DS 4
SWH 31250.300 Hz
FIDRES 0.474897 Hz
AQ 1.0485760 sec
RG 2650
DW 16.000 usec
DE 10.00 usec
TE 303.0 K
D1 0.58000000 sec
D11 0.03000000 sec
TD0 1



===== CHANNEL f1 =====
NUC1 13C
P1 11.00 usec
PL1 3.80 dB
PL1W 31.72492027 W
SFO1 125.6980448 MHz

===== CHANNEL f2 =====
PCPD2[2] waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -3.80 dB
PL12 14.50 dB
PL13 17.40 dB
PL1W 28.56579924 W
PL12W 0.43949320 W
PL13W 0.19146875 W
SFO2 499.8419594 MHz

F2 - Processing parameters
SI 32768
SF 125.6980448 MHz
WDW EM
SSB 0
LB 5.00 Hz
GB 0
FC 1.48



**³¹P NMR
202 MHz**

Owner pct
Sample PTG1a-130A
Platform 355
Job No 35588454

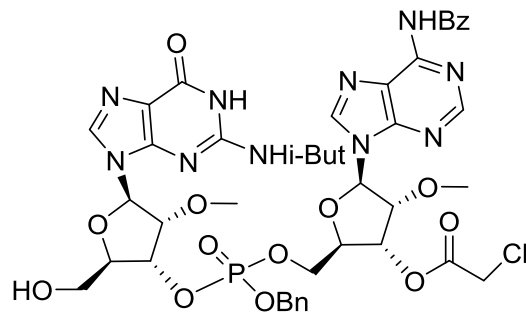
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Current Data Parameters
NAME      ptg1a130a
EXPNO     14
PROCNO    1

F2 - Acquisition Parameters
Date_     20130207
Time      21.34
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD         131072
SOLVENT   CDCl3
NS         82
DS         4
SWH        61521.741 Hz
FIDRES     0.401941 Hz
AQ         0.8039043 sec
RG         2050
DW         6.133 usec
DE         10.00 usec
TE         303.1 K
D1         2.00000000 sec
D11        0.09000000 sec
TD0        1

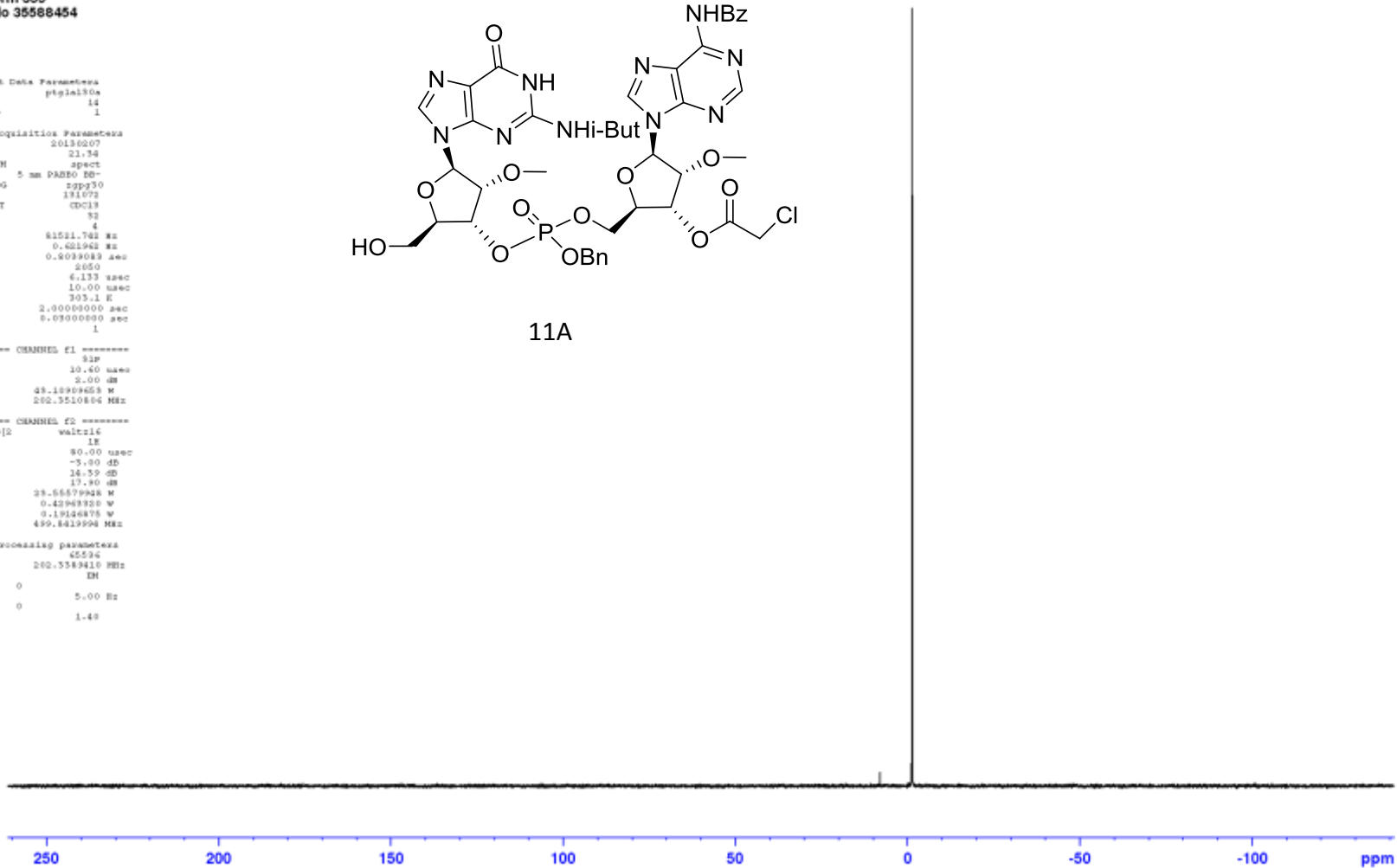
===== CHANNEL f1 =====
NUC1       31P
P1         10.40 usec
PL1        2.00 dB
PL12W      48.1898458 W
SFO1       202.3510864 MHz

===== CHANNEL f2 =====
PCPDPR2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -3.80 dB
PL12       14.50 dB
PL13       17.40 dB
PL12W      38.6679924 W
PL13W      0.43949320 W
PL13W      0.19146875 W
SFO2       499.8419594 MHz

F2 - Processing parameters
SI         65536
SF         202.3589410 MHz
WDW        EM
SSB         0
LB          5.00 Hz
GB          0
PC          1.48
```



11A



**¹³C NMR
126 MHz**

Owner pct
Sample PTG1a-130B
Platform 355
Job No 35588454

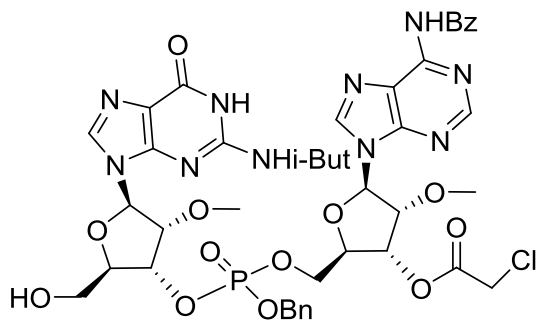
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Current Data Parameters
NAME      ptg1a130b
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20130207
Time      22.37
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         2048
DS         4
SWH        31250.000 Hz
FIDRES     0.474897 Hz
AQ          1.0485760 sec
RG          2650
DW          16.000 usec
DE          10.00 usec
TE          303.0 K
D1          0.58000000 sec
D11         0.03000000 sec
TD0         1

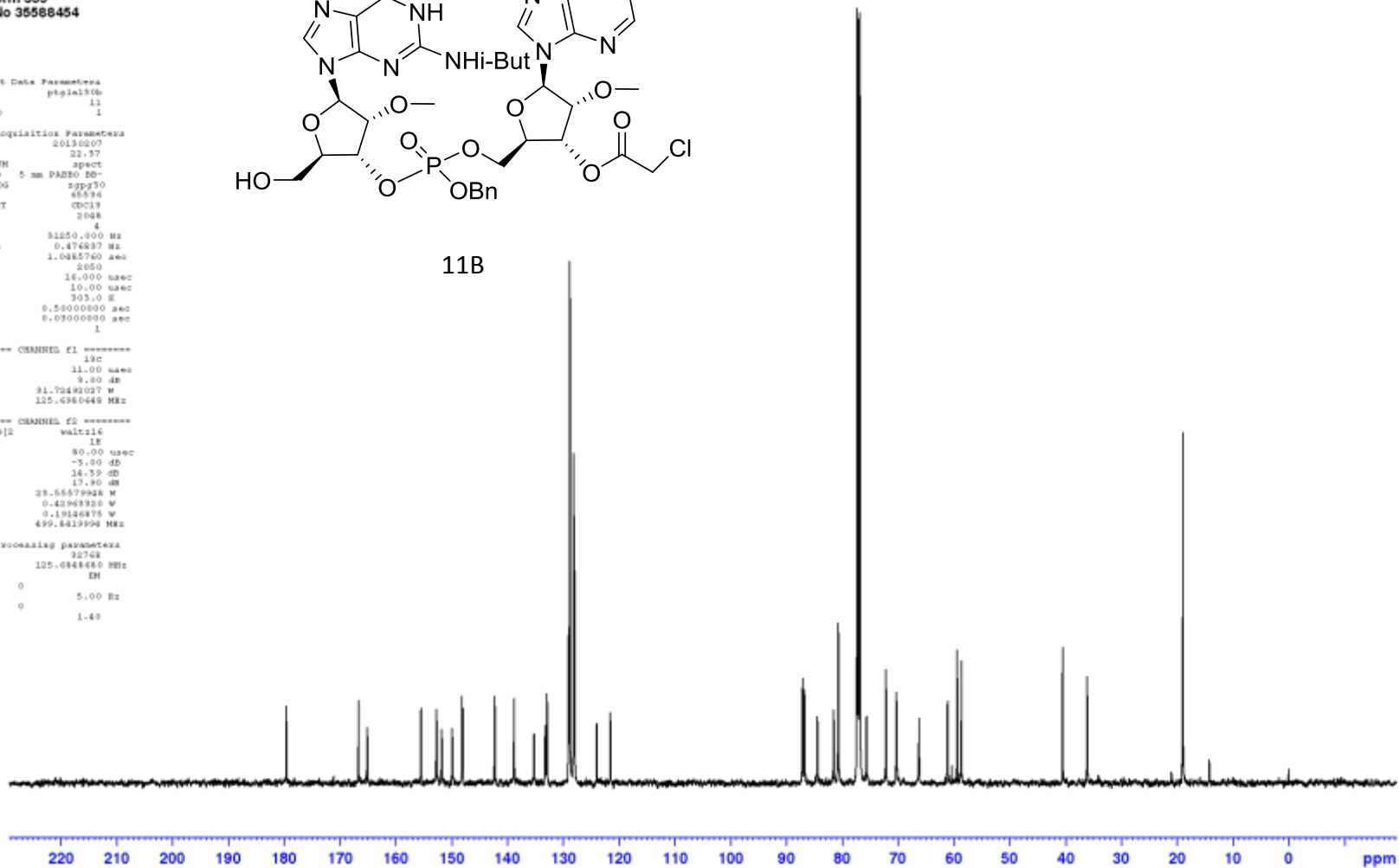
===== CHANNEL f1 =====
NUC1       13C
P1         11.00 usec
PL1        3.80 dB
PL12W      31.72492027 W
SFO1       125.6980448 MHz

===== CHANNEL f2 =====
CPCPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -3.80 dB
PL12       14.50 dB
PL13       17.40 dB
PL12W      28.56579924 W
PL13W      0.43949320 W
PL13W      0.19146875 W
SFO2       499.8419594 MHz

F2 - Processing parameters
SI         32768
SF         125.6980448 MHz
WDW        EM
SSB        0
LB          5.00 Hz
GB          0
FC          1.48
```



11B



**³¹P NMR
202 MHz**

Owner pct
Sample PTG1a-130B
Platform 355
Job No 35588454

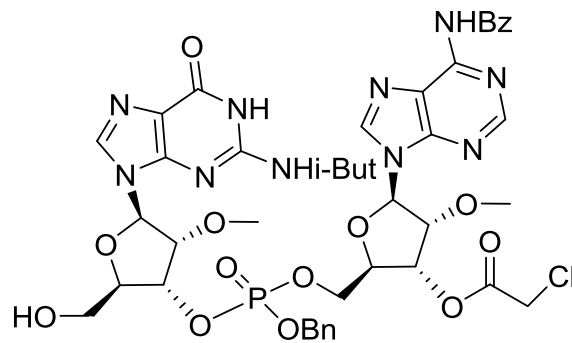
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Current Data Parameters
NAME      pglai30b
EXPNO     14
PROCNO    1

F2 - Acquisition Parameters
Date_     20130207
Time      23:41
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD         131072
SOLVENT   CDCl3
NS         82
DS         4
SWH        81521.741 Hz
FIDRES     0.401943 Hz
AQ          0.4039083 sec
RG          2050
DW          6.133 usec
DE          10.00 usec
TE          303.0 K
D1          2.0000000 sec
D11         0.0300000 sec
TD0         1

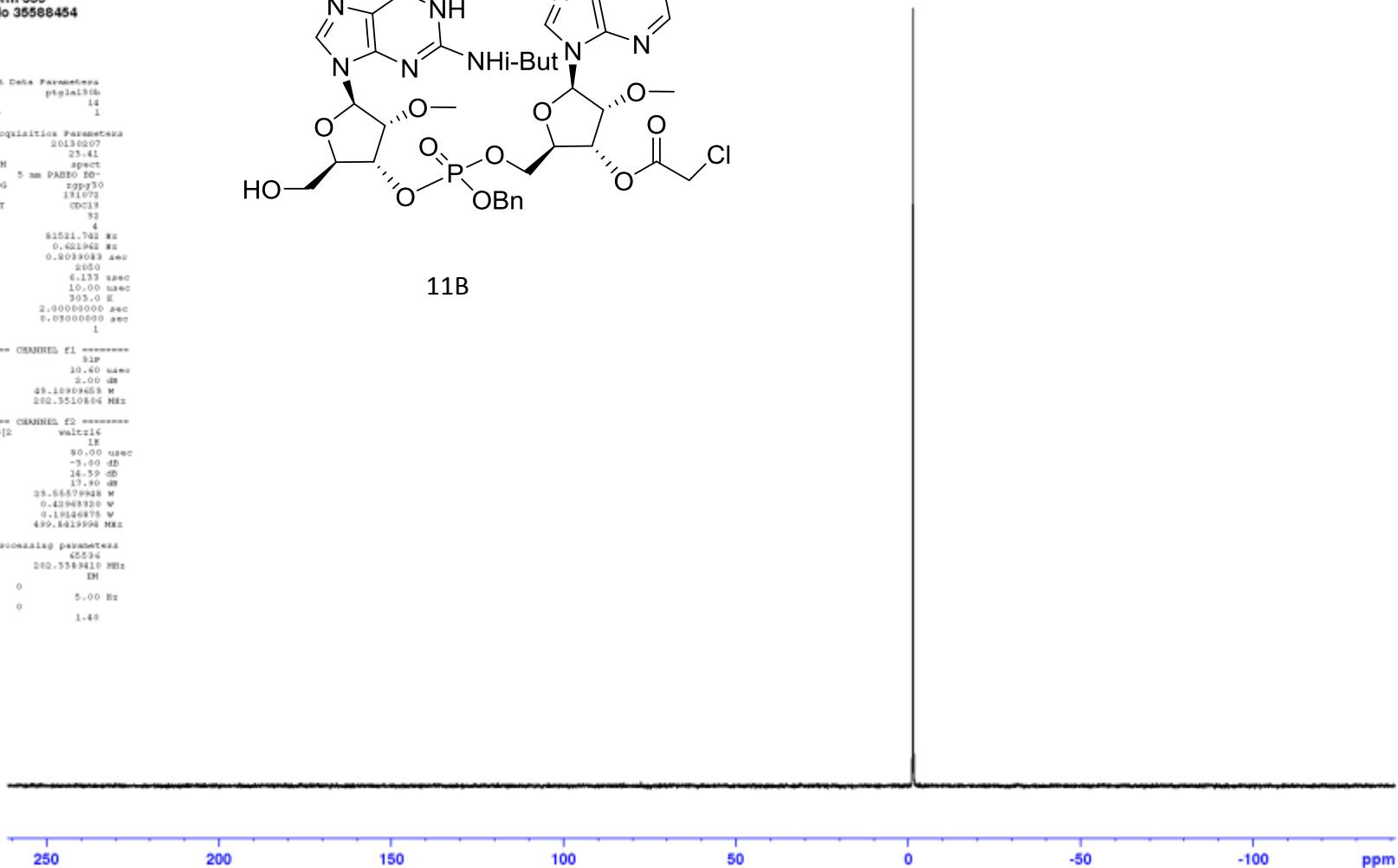
===== CHANNEL f1 =====
NUC1       31P
P1         10.40 usec
PL1        2.00 dB
PL12W      48.1898458 W
SFO1       202.3510864 MHz

===== CHANNEL f2 =====
PCPDPR2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -3.80 dB
PL12       14.50 dB
PL13       17.40 dB
PL12W      28.6679924 W
PL13W      0.43949320 W
PL13W      0.19146875 W
SFO2       499.8419594 MHz

F2 - Processing parameters
SI         65536
SF         202.3589410 MHz
WDW        EM
SSB        0
LB          5.00 Hz
GB          0
FC          1.48
```

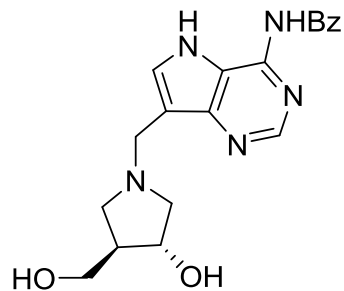


11B



**¹³C NMR
126 MHz**

Owner gbe
Sample GBE12-056B
Platform 355
Job No 35588454



12

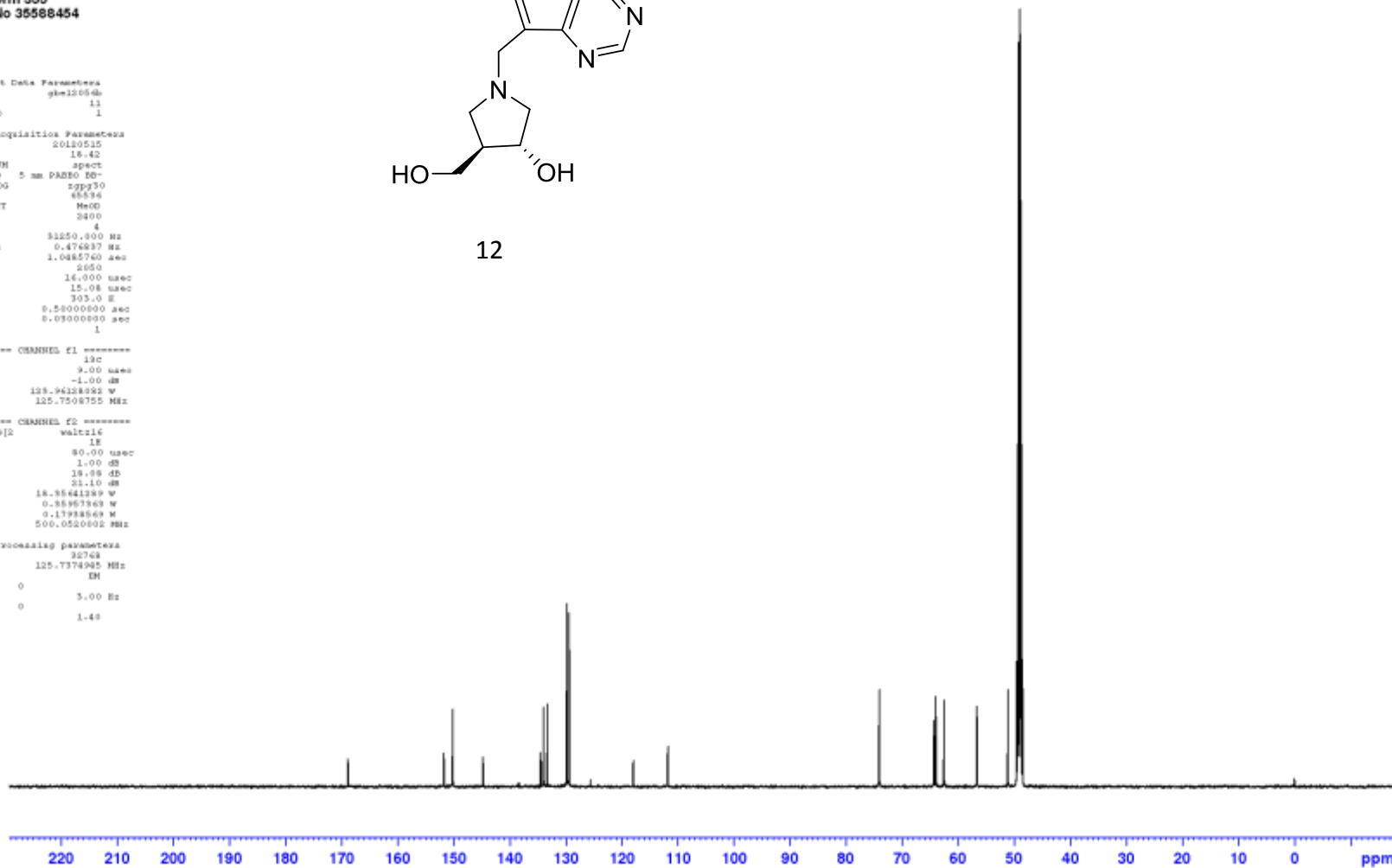
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Current Data Parameters
NAME      g8-120515
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20120515
Time      18.42
INSTRUM   spect
PROBHD    5 mm PABBO DD-
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         2400
DS         4
SWH        31250.000 Hz
FIDRES     0.474897 Hz
AQ         1.0485760 sec
RG         2050
DW         16.000 usec
DE         15.08 usec
TE         303.0 K
D1         0.58000000 sec
D11        0.09000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       13C
P1         9.00 usec
PL1        -1.00 dB
PL1W       128.9612882 W
SFO1       125.7508755 MHz

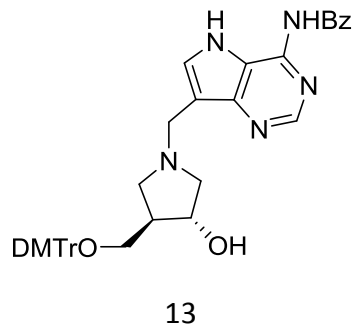
===== CHANNEL f2 =====
PCPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
PL2         1.00 dB
PL12        18.98 dB
PL13        21.10 dB
PL1W       18.85641289 W
PL12W      0.88967369 W
PL13W      0.17938569 W
SFO2       500.0520002 MHz

F2 - Processing parameters
SI         32768
SF         125.7379495 MHz
WDW        EM
SSB         0
LB          3.00 Hz
GB          0
FC          1.48
```



¹H NMR
500 MHz

Owner gbe
Sample 12-057a
Platform 355
Job No 35568454

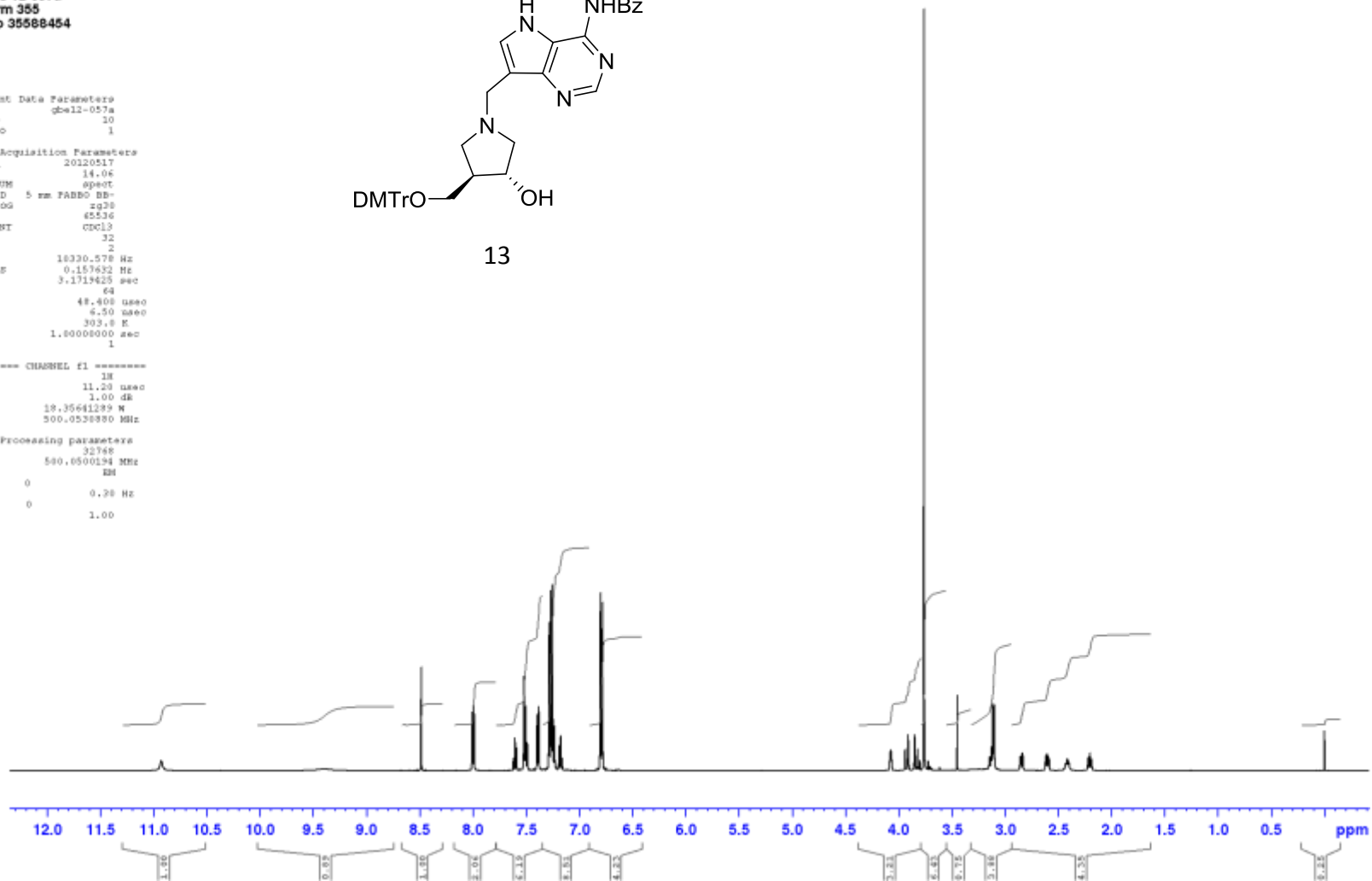


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Current Data Parameters
NAME      gbe12-057a
EXPNO     10
PROCNO    1

F2 - Acquisition Parameters
Date_     20120517
Time      14.06
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        32
DS        2
SWH        16330.578 Hz
FIDRES    0.157632 Hz
AQ        3.1719425 sec
RG        64
DM        48.400 usec
DE        6.50 musec
TE        303.8 K
D1        1.0000000 sec
TD0       1

***** CHANNEL f1 *****
NUC1      1H
P1        11.20 usec
PL1       1.00 dB
PL1M      18.35641289 M
SFO1      500.0530880 MHz

F2 - Processing parameters
SI        32768
SF        500.0500194 MHz
WDW       EM
SSB       0
SR        0.28 Hz
GB        0
PC        1.00
```



¹³C NMR
126 MHz

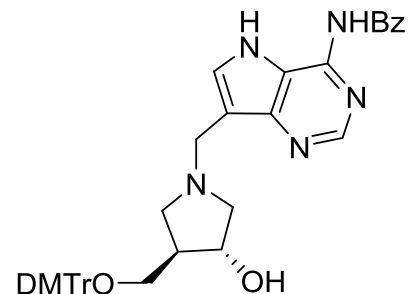
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Current Data Parameters
NAME      gbel1-007a
EXPNO    21
PROCNO   1

F2 - Acquisition Parameters
Date_    20120517
Time     17:20
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SFO      1250.000 MHz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       141
DW       16.000 usec
DE       15.08 usec
TE       303.1 K
D3       0.59000000 sec
D11      0.09000000 sec
TEO      1

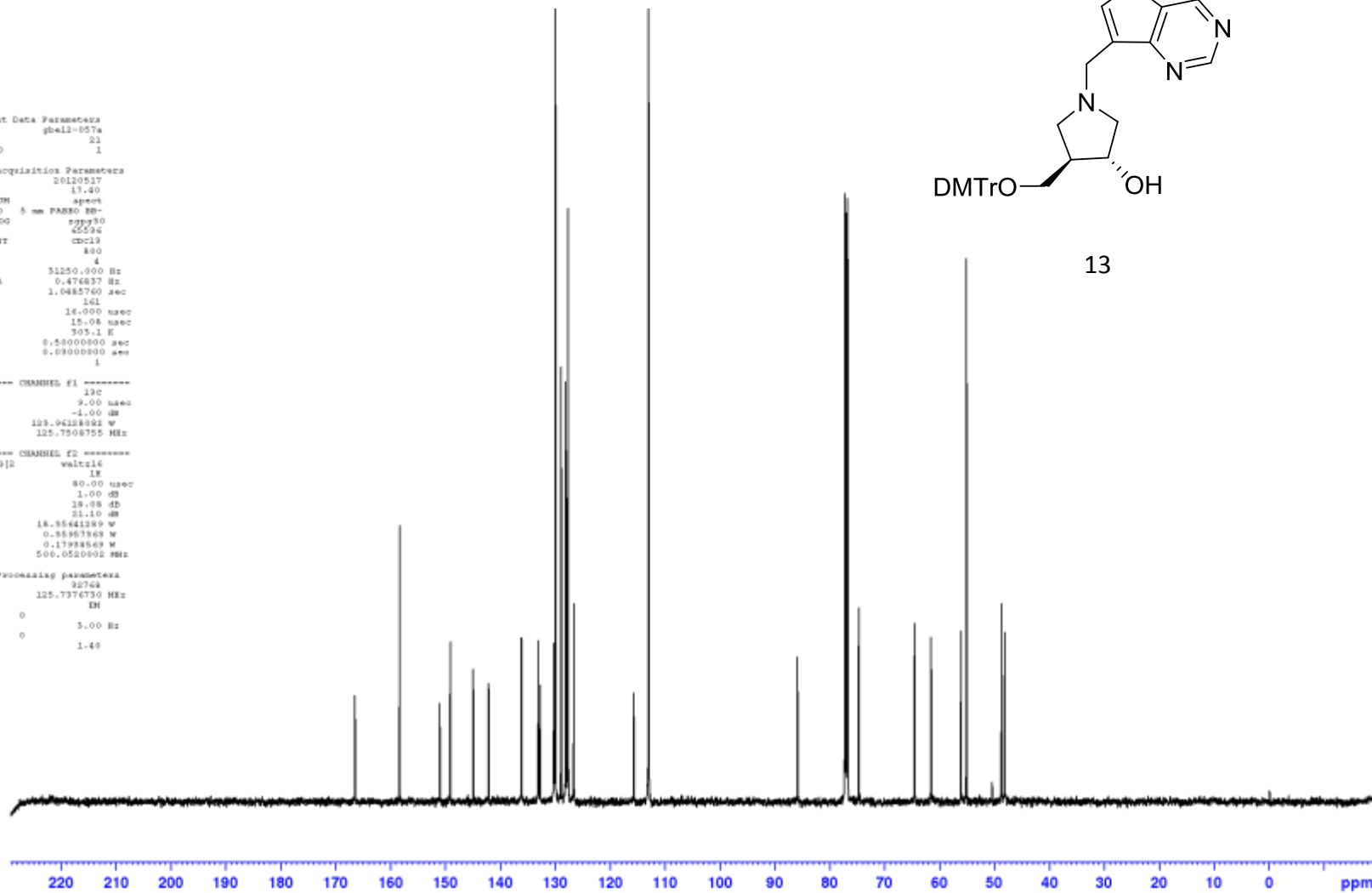
----- CHANNEL f1 -----
NUC1      13C
P1       9.00 usec
PL1      -1.00 dB
P1LM     123.9412882 W
SFO1     125.7508755 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2      1H
PCPD2    80.00 usec
P12      1.00 dB
P1L2     19.98 dB
P1L3     21.10 dB
P1LM     18.95441289 W
P1L3M    0.35967363 W
P1L3W    0.17983669 W
SFO2     500.0520002 MHz

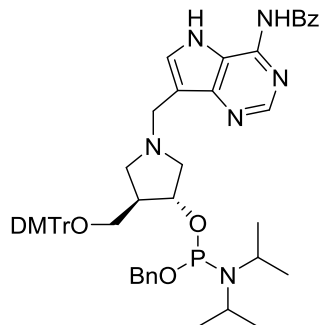
F2 - Processing parameters
SI       32768
SF       125.7376730 MHz
MCM      EM
ASB      0
LB       3.00 Hz
GB       0
PC       1.49
```



13



¹H NMR
500 MHz



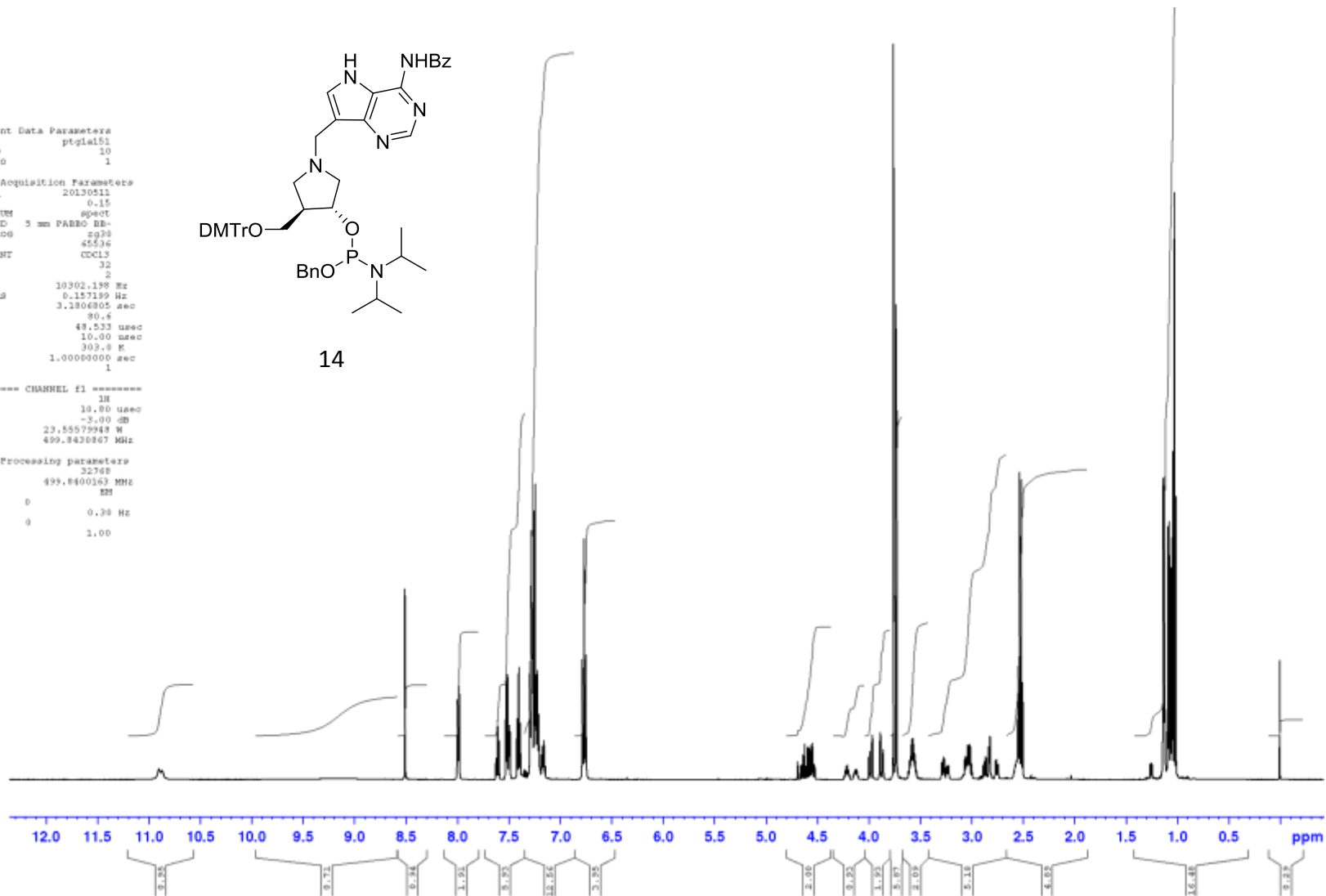
14

```
Current Data Parameters
NAME      ptgl151
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20130511
TIME     0.15
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  CDCl3
NS       32
DS       2
SWH      10302.198 Hz
FIDRES   0.157199 Hz
AQ       3.1804805 sec
RG       80.6
CW       48.533 usec
DE       10.00 usec
TE       303.2 K
DQ       1.0000000 sec
TDO      1
```

```
----- CHANNEL f1 -----
NUC1     1H
P1       18.00 usec
PL1      -3.00 dB
PL1W     23.55579948 M
SFO1     499.9420867 MHz
```

```
F2 - Processing parameters
SI       32768
SF       499.8400163 MHz
NMW      MHz
SSB      0
LA       0.39 Hz
GB       0
PC       1.00
```



¹³C NMR
126 MHz

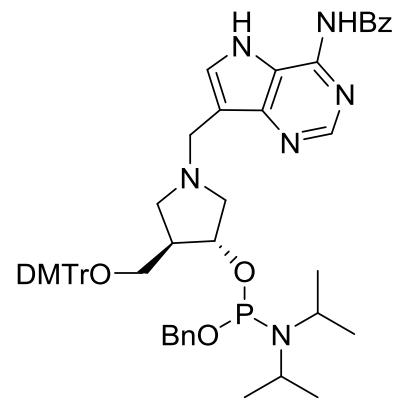
```
Current Data Parameters
NAME      ptgl151
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20130511
Time     1.18
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cdcl3
NS       2048
DS       4
SFO      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DM       18.000 nsec
DE       10.00 nsec
TE       303.0 K
D3       0.58000000 sec
D11      0.09000000 sec
TEO      1

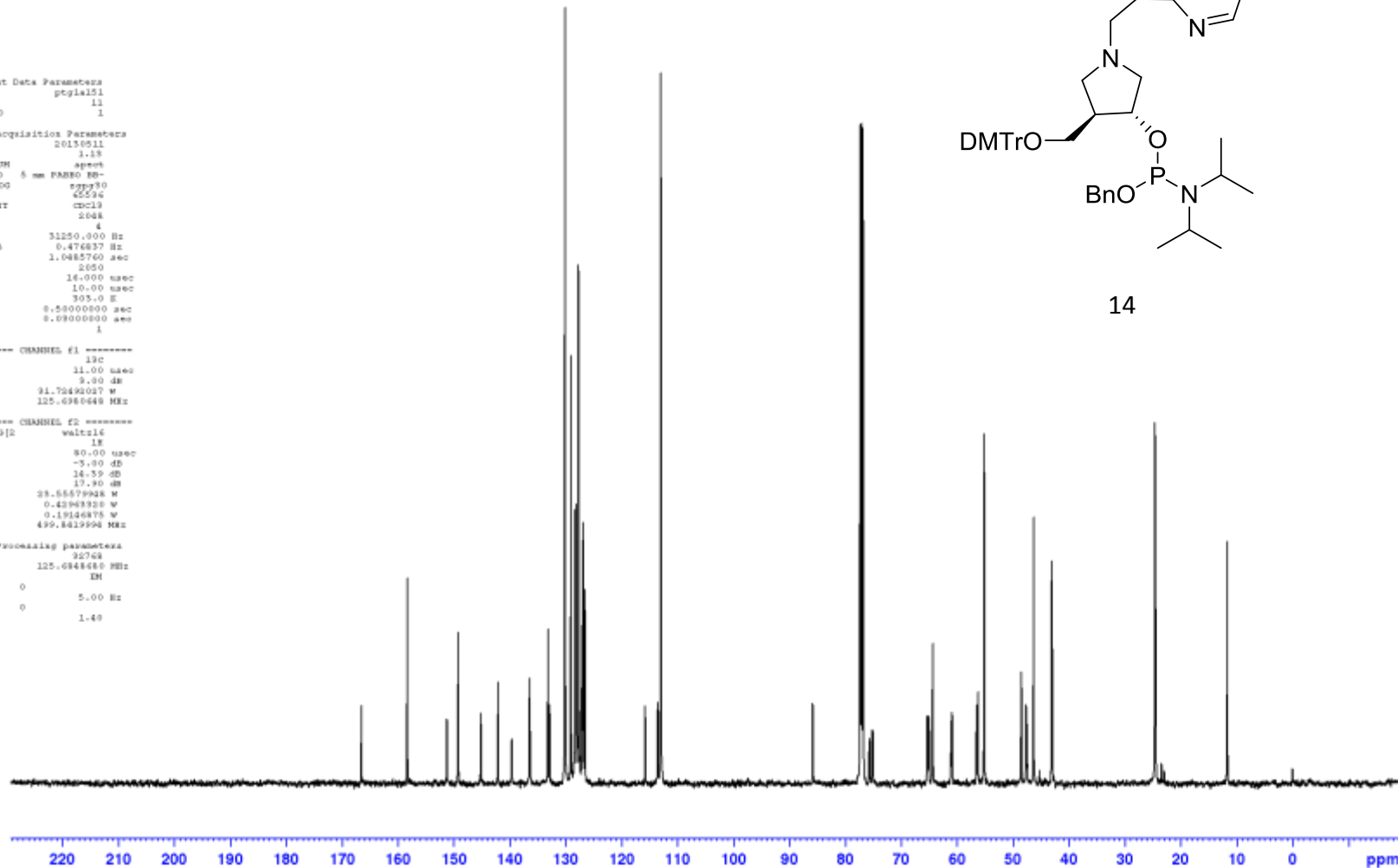
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 nsec
P11      9.00 dB
P11M     31.7049027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 nsec
P2       -3.00 dB
P21      14.39 dB
P21M     29.65579948 W
P21M     0.43969320 W
P21M     0.19106875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCM      IM
ASB      0
LB       5.00 Hz
GB       0
PC       1.49
```



14



**³¹P NMR
202 MHz**

```

Current Data Parameters
NAME      ptgl151
EXPNO    14
PROCNO   1

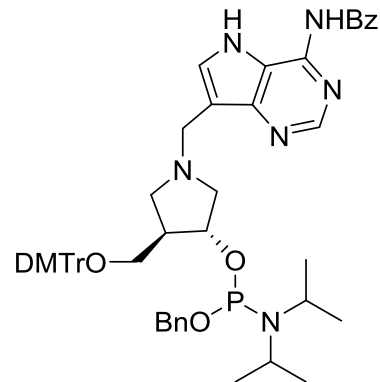
F2 - Acquisition Parameters
Date_    20130511
Time     2.16
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       134072
SOLVENT  cdcl3
NS       32
DS       4
SFO      61521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
IE       305.0 E
D3       2.0000000 sec
D11      0.0900000 sec
TEO      1

----- CHANNEL f1 -----
NUC1     31P
P1       10.40 usec
P11      5.00 dB
P11M     43.18969458 W
SFO1     202.3510864 MHz

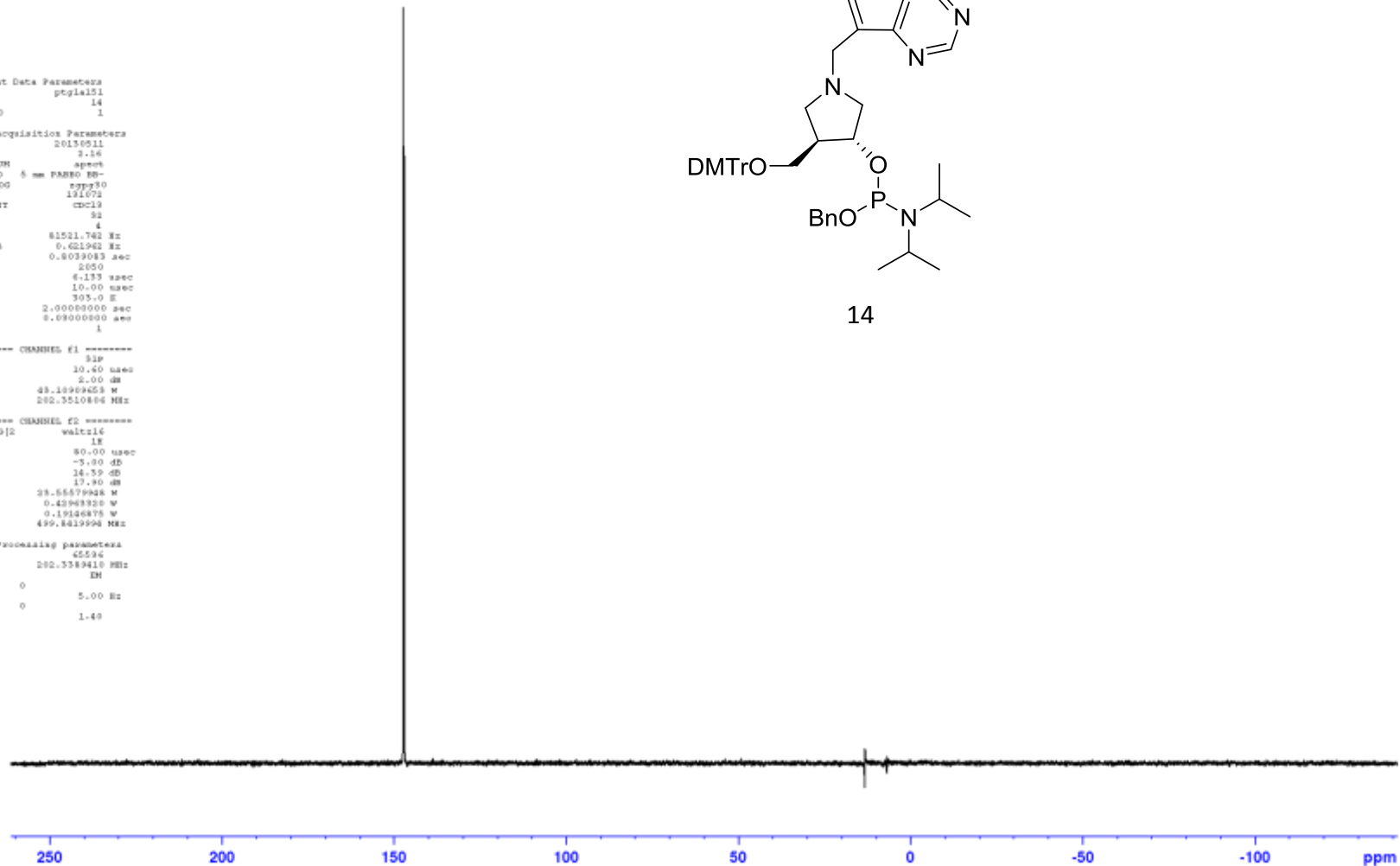
***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.80 dB
P112     14.39 dB
P113     17.80 dB
P12M     29.65579948 W
P112M    0.43968320 W
P113M    0.19166875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       65536
SF       202.3389410 MHz
MCW      IM
SAB      0
LB       5.00 Hz
GB       0
PC       1.49

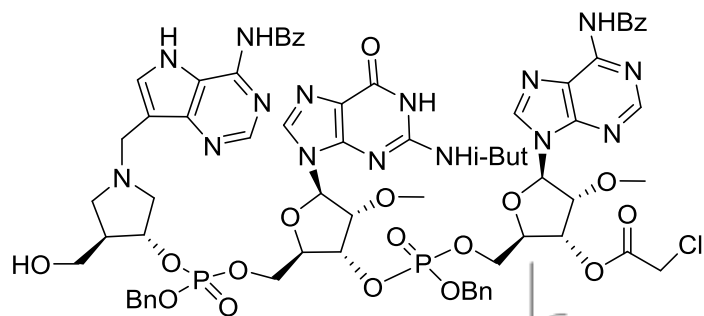
```



14



¹H NMR
500 MHz



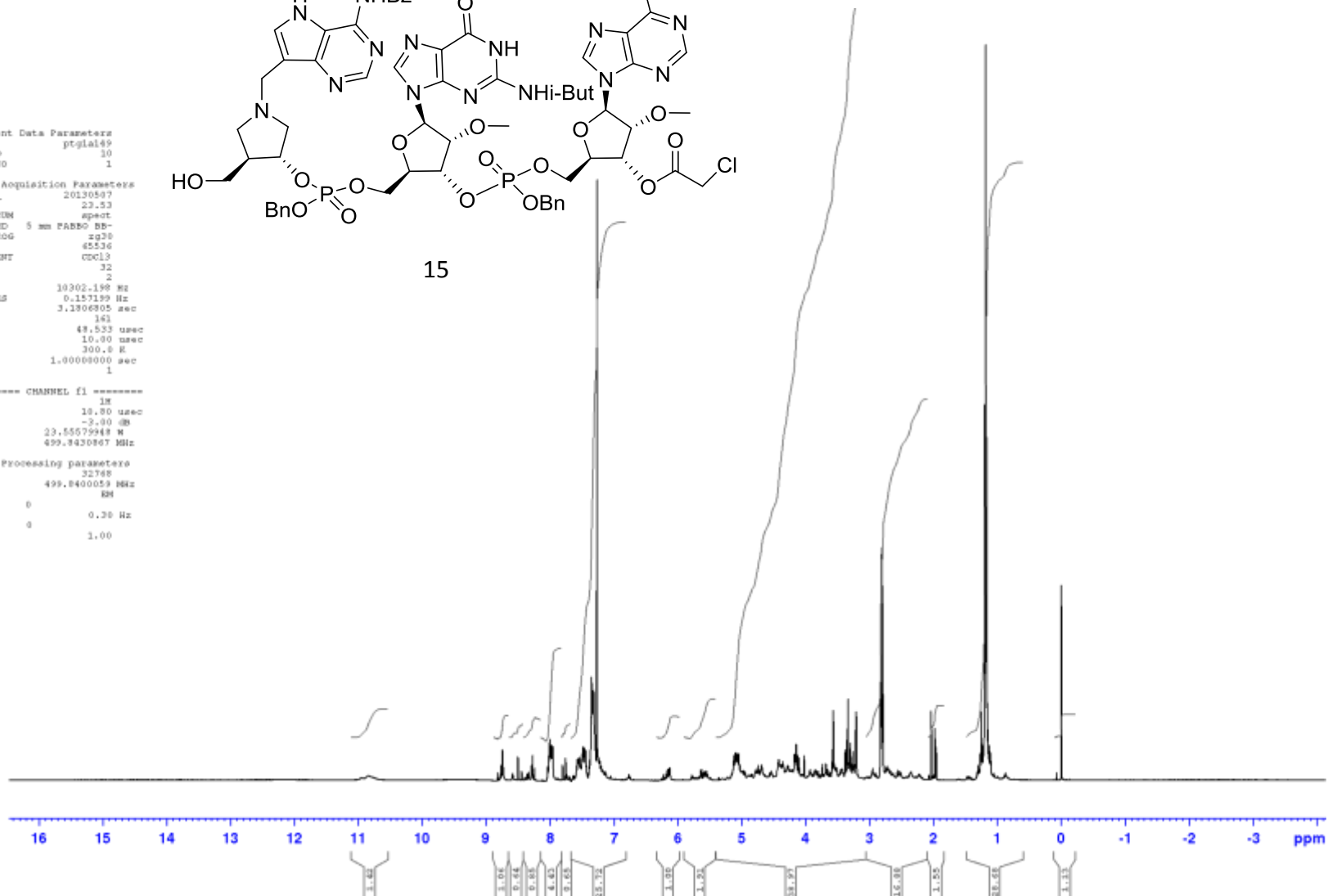
15

Current Data Parameters
NAME ptglal49
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20130507
Time 23:53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT cdcl3
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1806905 sec
RG 161
CW 48.533 usec
DE 10.00 usec
TE 300.2 K
SI 1.0000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 10.00 usec
PL1 -2.00 dB
PL1N 23.55579948 M
SFO1 499.8420867 MHz

F2 - Processing parameters
SI 32768
SF 499.8400059 MHz
NUC 1H
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



**¹³C NMR
126 MHz**

```

Current Data Parameters
NAME      ptgl149
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20130504
Time     1.54
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpcl3
NS       4
DS       4
SWH      31250.000 Hz
FIDRES   0.474637 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.00 usec
TE       305.0 K
D3       8.58000000 sec
D11      8.09000000 sec
TEO      1
  
```

```

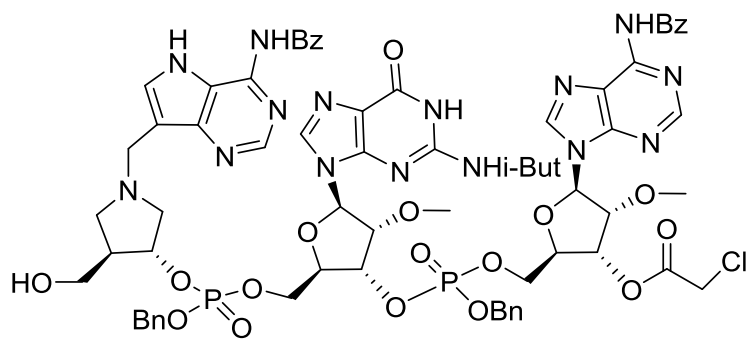
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.00 dB
P11W    31.7049027 W
SFO1     125.0984648 MHz
  
```

```

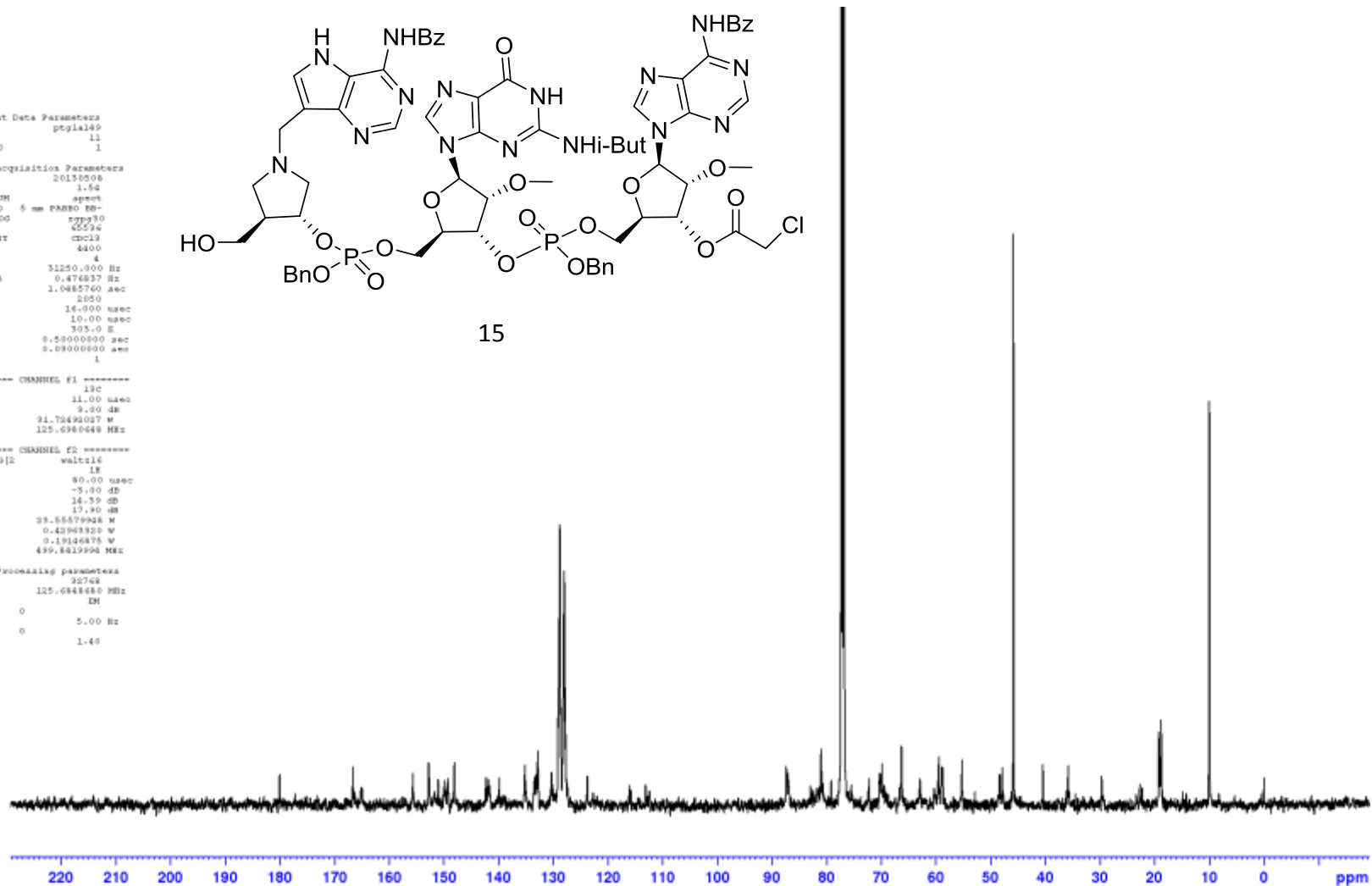
----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.00 dB
P112     14.39 dB
P113     17.80 dB
P12W    29.65579948 W
P112W    0.43968320 W
P113W    0.19166875 W
SFO2     499.8419994 MHz
  
```

```

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCW      1H
SAB      0
LB       5.00 Hz
GB       0
PC       1.49
  
```



15



³¹P NMR
202 MHz

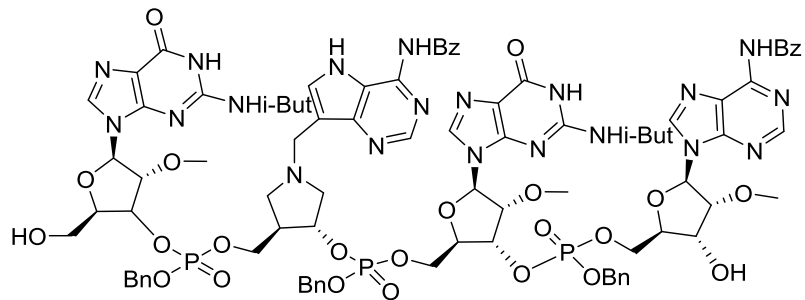
```
Current Data Parameters
NAME      pgl160
EXPNO    14
PROCNO   1

F2 - Acquisition Parameters
Date_    20180404
Time     18.08
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       131072
SOLVENT  cdcl3
NS       32
DS       4
SWH      81521.782 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
TE       303.0 K
D1       2.0000000 sec
d11      0.0900000 sec
TD0      1
```

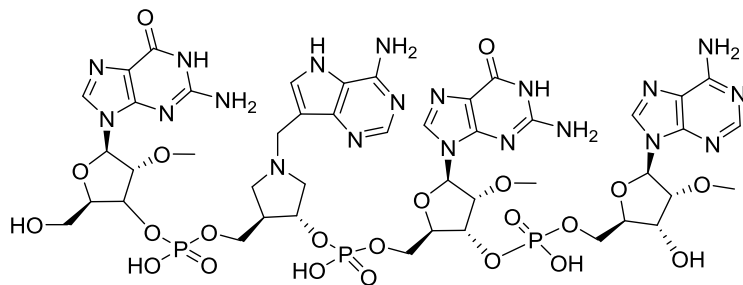
```
----- CHANNEL f1 -----
NUC1     31P
P1       10.40 usec
P11      5.00 dB
P11M     48.1896828 W
SFO1     202.3510864 MHz
```

```
***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       -5.00 dB
P21      14.39 dB
P21M     17.80 dB
P21M     28.65579928 W
P11M     0.43968328 W
P11M     0.19186878 W
SFO2     499.8419994 MHz
```

```
F2 - Processing parameters
SI       65536
SF       202.3519410 MHz
MCW      IM
SAB      0
LB       5.00 Hz
GB       0
PC       1.49
```



¹³C NMR
126 MHz



4

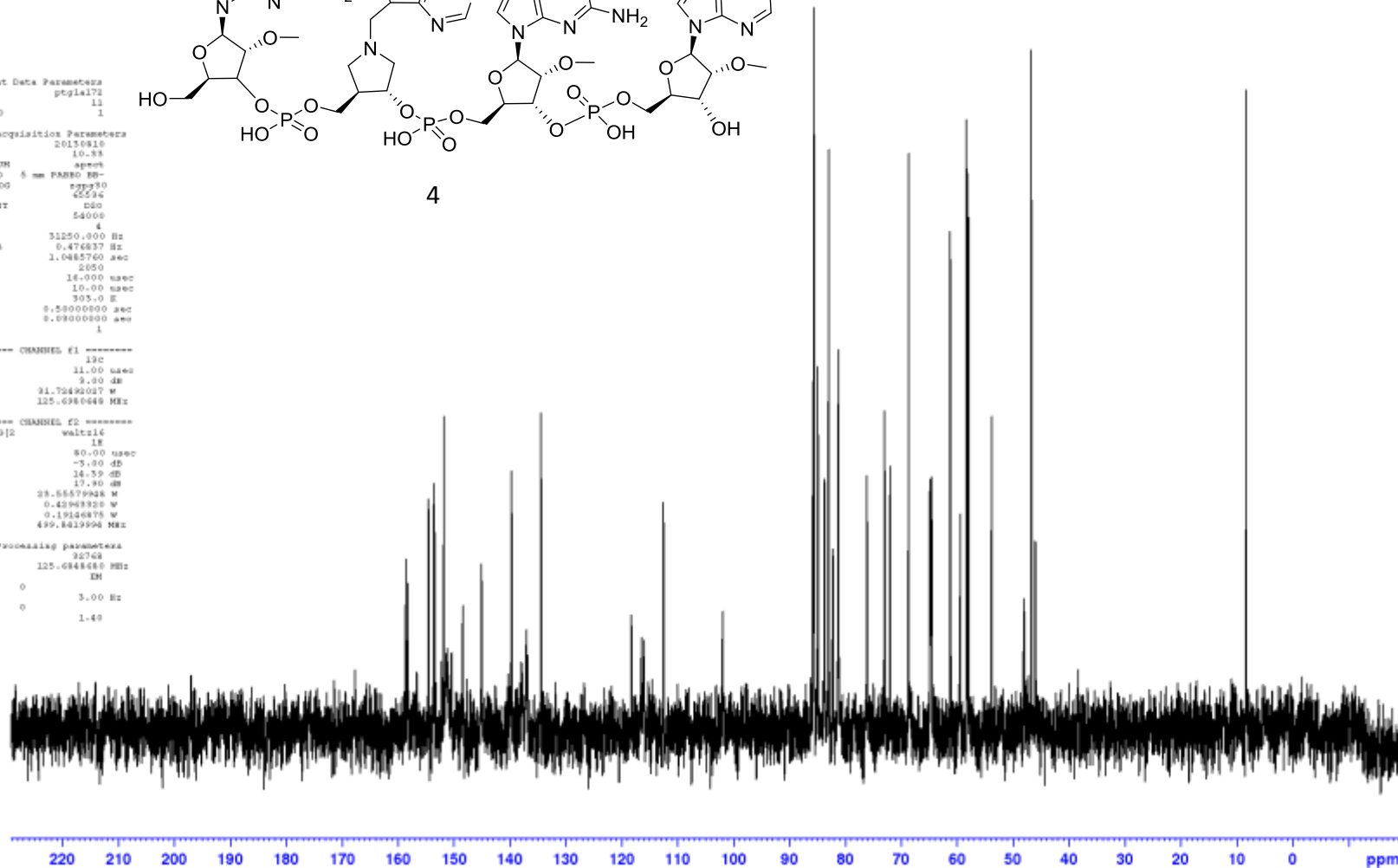
Current Data Parameters
NAME ptg1a172
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150110
Time 10:38
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 54000
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 2050
DW 18.000 usec
DE 10.00 usec
TE 305.0 K
D3 8.58000000 sec
D11 8.99000000 sec
TEO 1

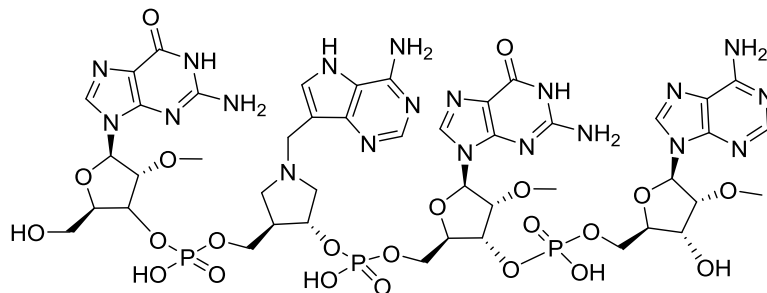
----- CHANNEL f1 -----
NUC1 13C
P1 11.00 usec
PL1 9.80 dB
PL12 21.7049027 W
SFO1 125.0984648 MHz

----- CHANNEL f2 -----
CHOPPRP2 waltz16
NUC2 1H
PCPD2 80.00 usec
P12 -3.80 dB
PL12 14.39 dB
PL13 17.80 dB
PL2W 29.65579928 W
PL13W 0.43968320 W
PL13W 0.19186875 W
SFO2 499.8419994 MHz

F2 - Processing parameters
SI 32768
SF 125.0984648 MHz
MCM 1H
SAB 0
LB 3.00 Hz
GB 0
PC 1.49



**³¹P NMR
202 MHz**



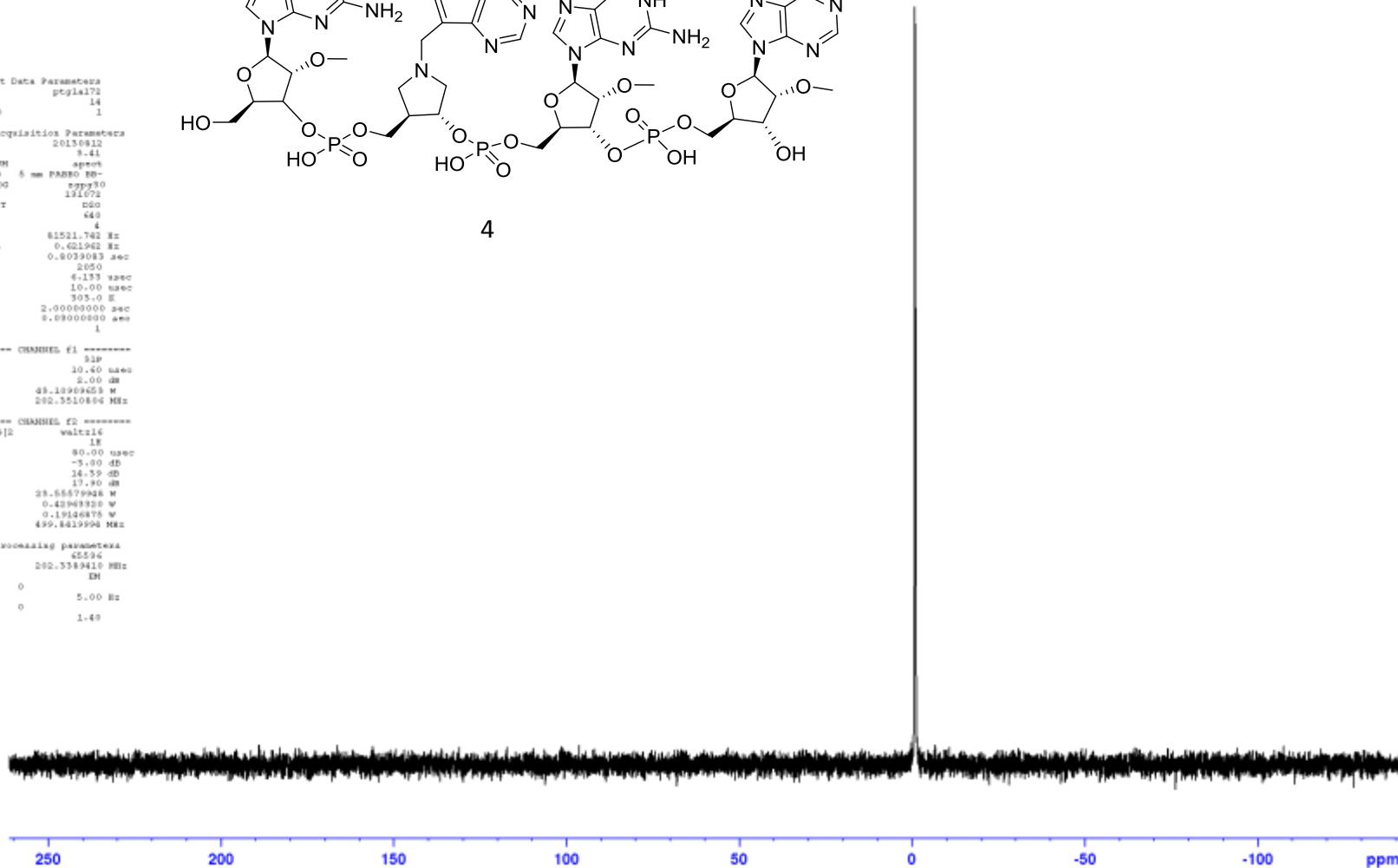
4

Current Data Parameters
NAME ptglal72
EXPNO 14
PROCNO 1
F2 - Acquisition Parameters
Date_ 20130412
Time 9:41
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 640
DS 4
SWH 61521.782 Hz
FIDRES 0.621962 Hz
AQ 0.8039083 sec
RG 2550
DW 6.133 usec
DE 10.00 usec
TE 303.0 K
D3 2.0000000 sec
D11 0.0900000 sec
TEO 1

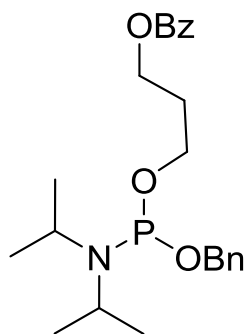
----- CHANNEL f1 -----
NUC1 31P
P1 10.40 usec
PL1 5.00 dB
P1M 48.1896828 W
SFO1 202.3510846 MHz

***** CHANNEL f2 *****
CHOPPR2 wait216
NUC2 1H
PCPD2 80.00 usec
P12 -5.00 dB
P1L2 14.39 dB
P1L3 17.80 dB
P1M 28.65579948 W
P1L1M 0.43968328 W
P1L1W 0.19186878 W
SFO2 499.8419994 MHz

F2 - Processing parameters
SI 65536
SF 202.338410 MHz
MEM 1M
SAB 0
LB 5.00 Hz
GB 0
PC 1.49



¹H NMR
500 MHz



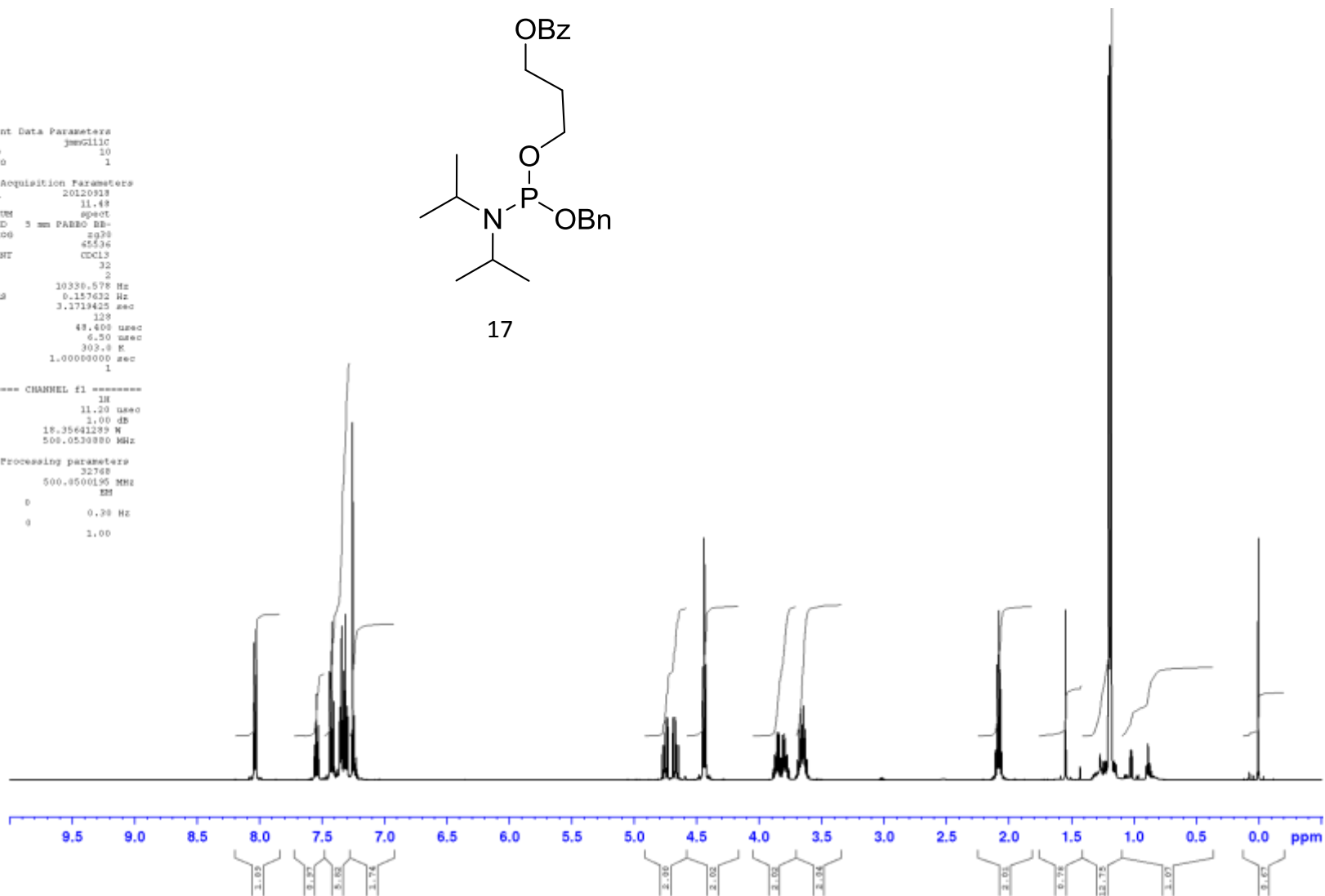
17

Current Data Parameters
NAME jmsG11c
EXPNO 10
PROCNO 1

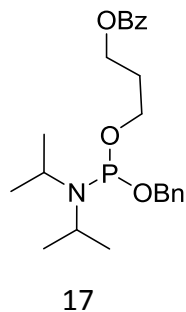
F2 - Acquisition Parameters
Date_ 20120918
Time 11.48
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 128
CW 49.409 usec
DE 6.50 usec
TE 303.2 K
DQ 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
PL1W 18.35641289 W
SFO1 500.0530880 MHz

F2 - Processing parameters
SI 32768
SF 500.0500195 MHz
NM 65536
SSB 0
LA 0.39 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz



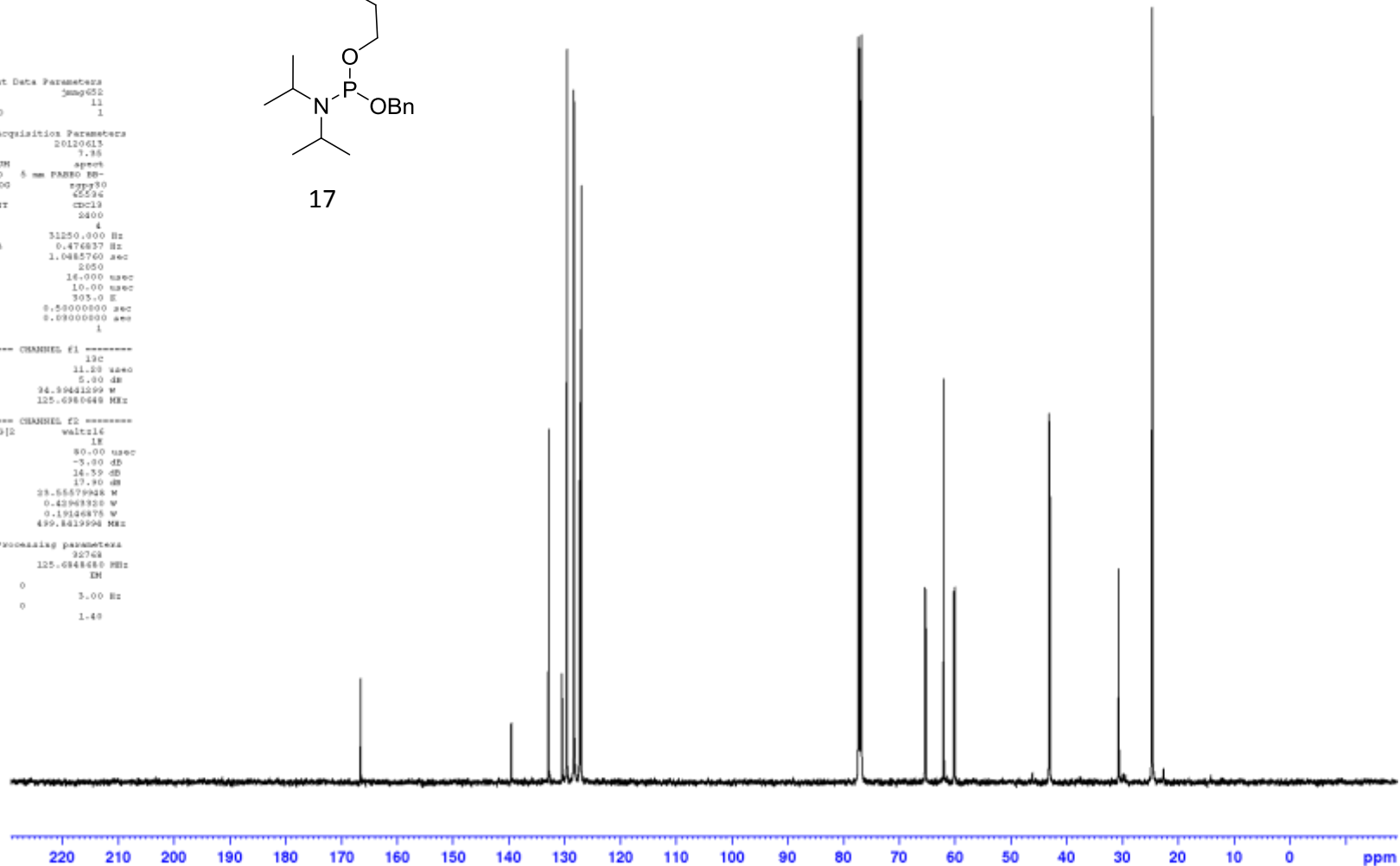
```
Current Data Parameters
NAME      Jmgg052
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20120613
Time      7.35
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   cpd13
NS        2400
DS        4
SWH        31250.000 Hz
FIDRES    0.476837 Hz
AQ        1.0485760 sec
RG        2050
DW        18.000 usec
DE        10.00 usec
TE        303.0 K
D3        0.50000000 sec
D11       0.09000000 sec
TEO       1

----- CHANNEL f1 -----
NUC1      13C
P1        11.20 usec
P11       5.00 dB
P11M     34.90481299 W
SFO1      125.0981648 MHz

----- CHANNEL f2 -----
CPDPRG2   waltz16
NUC2      1H
PCPD2     80.00 usec
P12       -3.00 dB
P112     14.39 dB
P113     17.90 dB
P12M     29.65579928 W
P112M    0.42969320 W
P113M    0.19136875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI        32768
SF        125.0981648 MHz
MCW       IM
SAB       0
LB        3.00 Hz
GB        0
PC        1.40
```



**³¹P NMR
202 MHz**

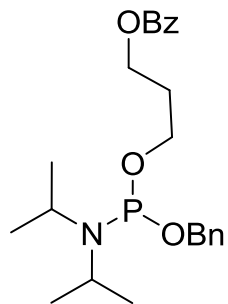
```
Current Data Parameters
NAME          janshlic
EXPNO        11
PROCNO       1

F2 - Acquisition Parameters
Date_        20120918
Time         11:52
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           131072
SOLVENT      CDCl3
HG           32
DS           4
SWH          81521.742 Hz
FIDRES       0.621962 Hz
AQ           0.8035083 sec
RG           2058
DW           6.123 usec
DE           6.50 usec
TE           299.2 K
D1           3.0000000 sec
d11          0.02000000 sec
TE0          1

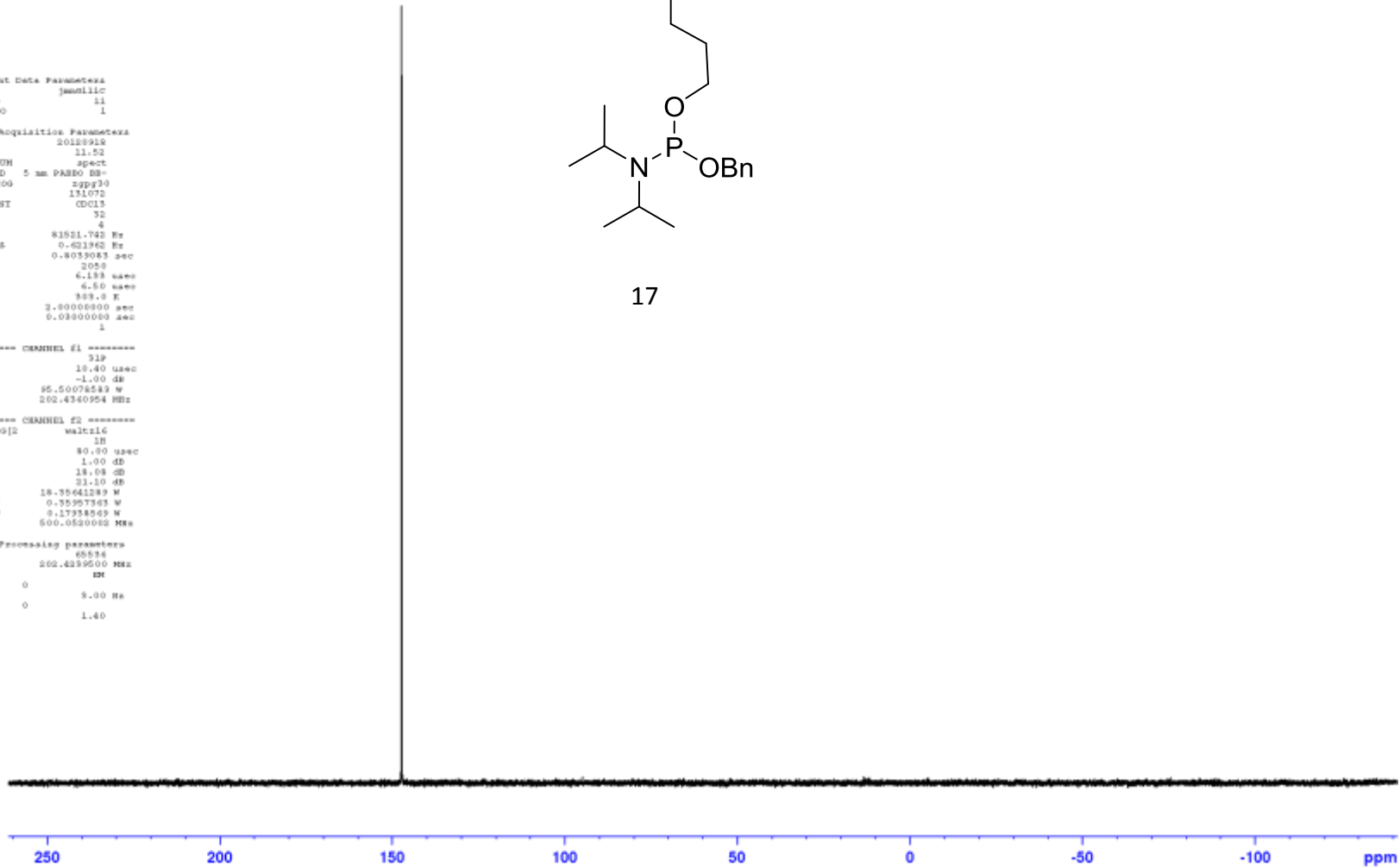
----- CHANNEL f1 -----
NUC1         31P
P1           18.40 usec
P11          -1.00 dB
P1LM        55.50078523 W
SFO1        202.4340954 MHz

----- CHANNEL f2 -----
CPDPRG2      mlticlic
NUC2         1H
PCPD2        80.00 usec
P12          1.00 dB
P1L2        19.08 dB
P1L3        21.10 dB
P1LM        18.35641289 W
P1L2M       0.35907363 W
P1L3M       0.17948569 W
SFO2        500.0520082 MHz

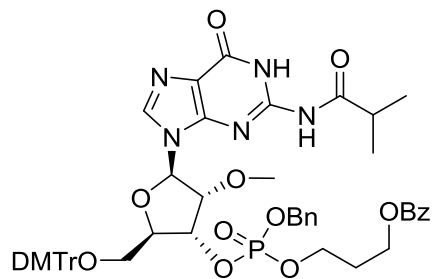
F2 - Processing parameters
SI           65536
SF           202.4239500 MHz
NCM          324
ZSN          0
LB           3.00 Hz
GB           0
PC           1.40
```



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¹H NMR
500 MHz

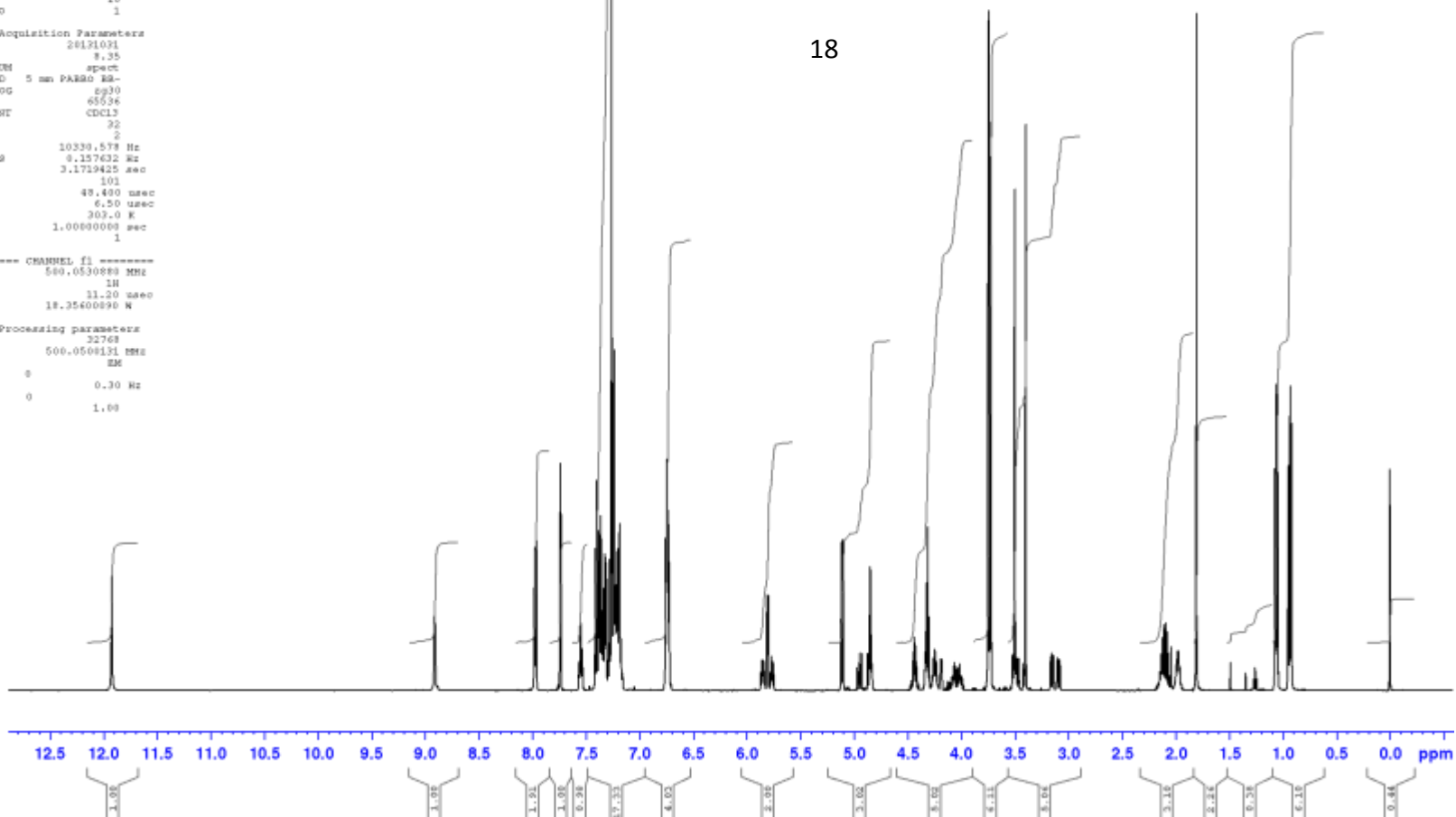


```
Current Data Parameters
NAME      jmg221
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20121031
Time     8.35
INSTRUM  spect
PROBHD   5 mm PABBO BBI-
PULPROG  zg30
TD       65536
SOLVENT  CDCl3
NS       32
DS       2
SWH      10330.578 Hz
FIDRES   0.157432 Hz
AQ       3.1719425 sec
RG       101
DM       48.400 usec
DC       6.50 usec
TE       303.0 K
D1       1.00000000 sec
TDO      1

----- CHANNEL f1 -----
NUC1     1H
P1       31.20 usec
PL1      18.25400000 W

F2 - Processing parameters
SI       32768
SF       500.0509131 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
```



**¹³C NMR
126 MHz**

```

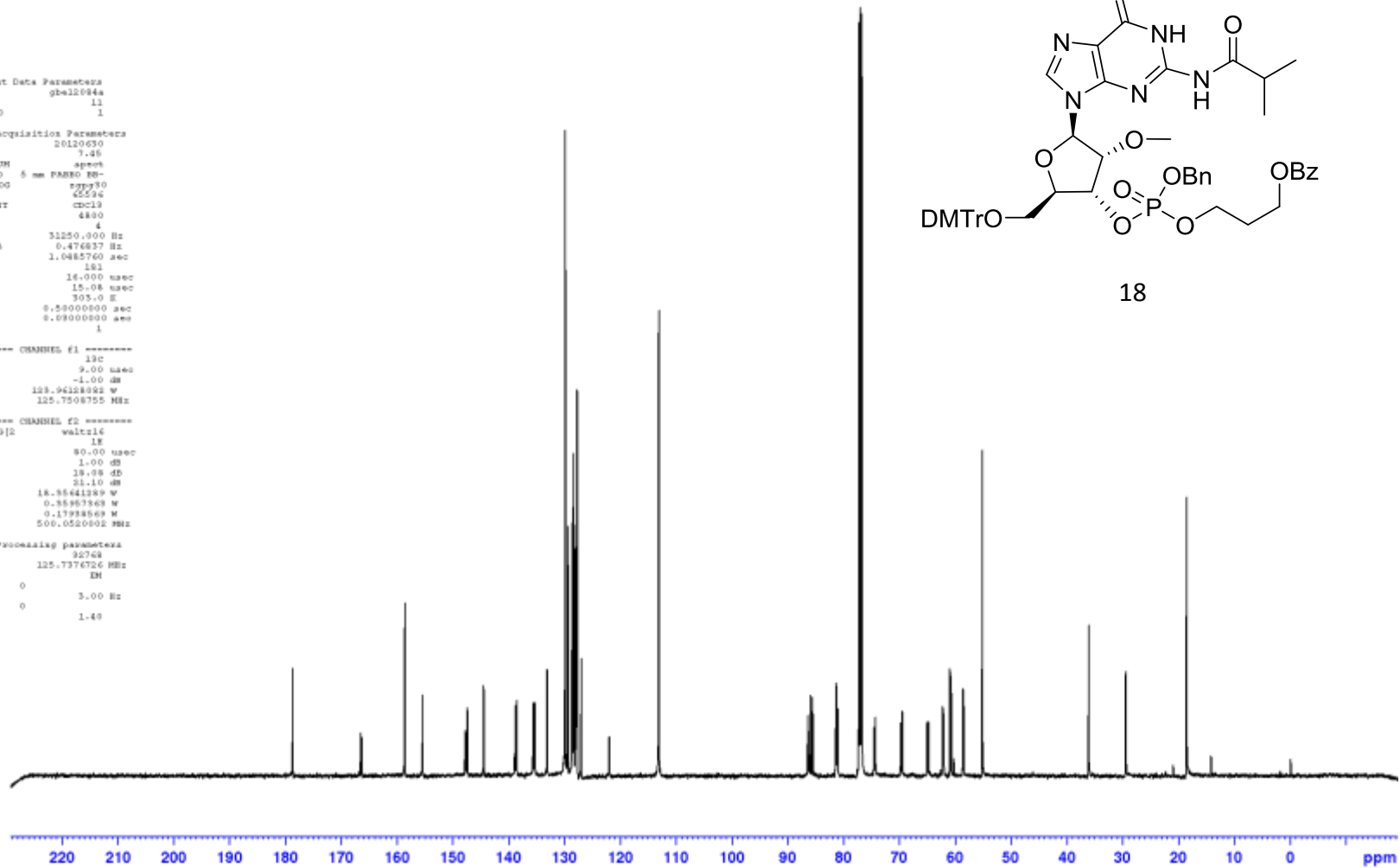
Current Data Parameters
NAME      gbal2004a
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20120630
Time     7.26
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       4800
DS       4
SFO      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       133
DM       16.000 usec
DE       15.08 usec
TE       303.0 K
D3       0.58000000 sec
D11      0.09000000 sec
TEO      1

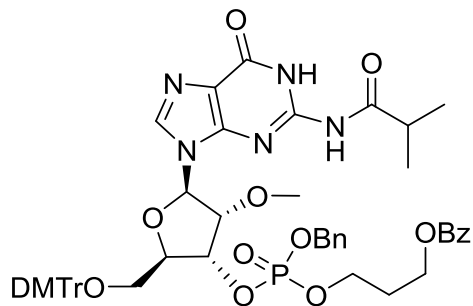
----- CHANNEL f1 -----
NUC1     13C
P1       9.00 usec
P11      -1.00 dB
P11W    123.9412884 W
SFO1     125.7508755 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      1.00 dB
P12W    19.38 dB
P13      21.10 dB
P13W    18.95441289 W
P13M    0.35867363 W
P13W    0.17984569 W
SFO2     500.0520002 MHz

F2 - Processing parameters
SI       32768
SF       125.7376726 MHz
MCM      IM
ASB      0
LB       3.00 Hz
GB       0
PC       1.40
  
```



³¹P NMR
202 MHz



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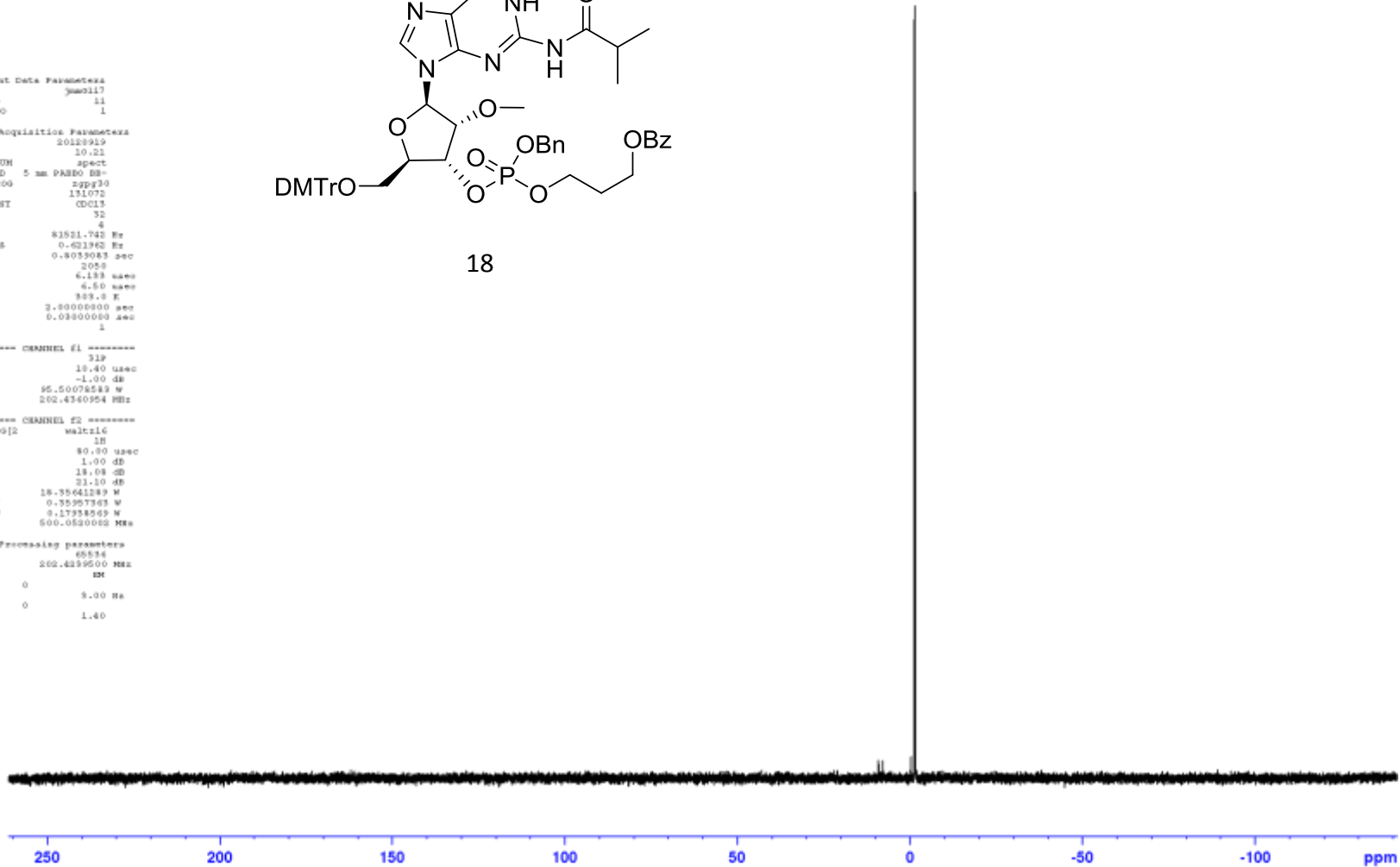
```
Current Data Parameters
NAME          jmac117
EXPNO         11
PROCNO        1

F2 - Acquisition Parameters
Date_         20120919
Time          10:21
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            131072
SOLVENT       CDCl3
NS            32
DS            4
SWH           81521.742 Hz
FIDRES       0.621962 Hz
AQ           0.8035083 sec
RG           2058
DW           6.123 usec
DE           6.50 usec
TE           300.2 K
D1           3.0000000 sec
d11          0.03000000 sec
TE0          1

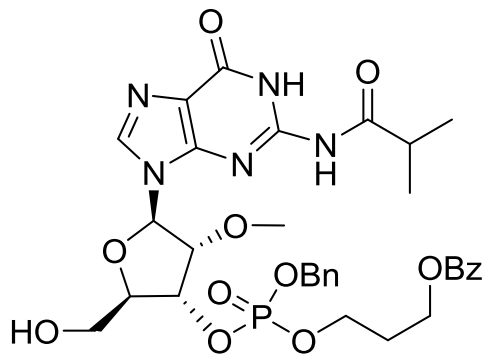
----- CHANNEL f1 -----
NUC1          31P
P1           18.40 usec
P11          -1.00 dB
P1LM        55.50078523 W
SFO1         202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRG2     mltic
NUC2          1H
PCPD2        80.00 usec
P12          1.00 dB
P1L2         19.08 dB
P1L3         21.10 dB
P1LM        18.35641289 W
P1LMW        0.35907363 W
P1LMW        0.17384569 W
SFO2         500.0520082 MHz

F2 - Processing parameters
SI           65536
SF           202.4239500 MHz
NCM          324
ZSN          0
LB           3.00 Hz
GB           0
PC           1.40
```



¹³C NMR
126 MHz



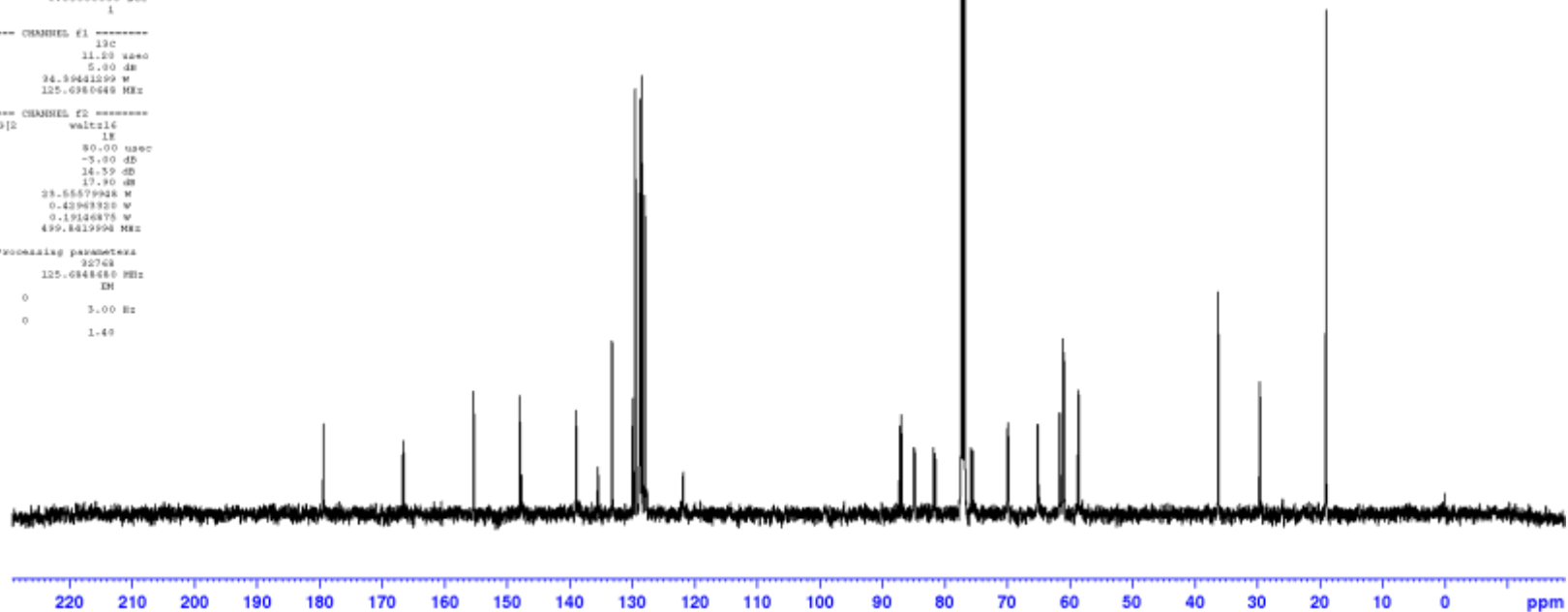
19

```
Current Data Parameters
NAME      jms074-2
EXPNO    11
PROCNO   1
-----
F2 - Acquisition Parameters
Date_    20120626
Time     12:16
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SFO      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.000 usec
TE       303.0 K
D3       8.59000000 sec
D11      8.09000000 sec
TEO      1
-----
```

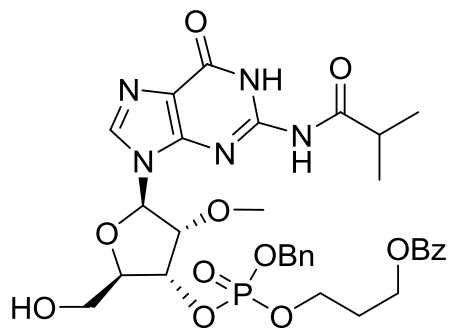
```
----- CHANNEL f1 -----
NUC1     13C
P1       11.20 usec
P11      5.80 dB
P1LM     34.59481299 W
SFO1     125.0981648 MHz
-----
```

```
----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.80 dB
P112     14.39 dB
P113     17.80 dB
P12M     29.65579928 W
P112M    0.42968320 W
P113M    0.19166875 W
SFO2     499.8419994 MHz
-----
```

```
F2 - Processing parameters
SI       32768
SF       125.0981648 MHz
MCW      IM
SAB      0
LB       3.00 Hz
GB       0
PC       1.49
```



**³¹P NMR
202 MHz**



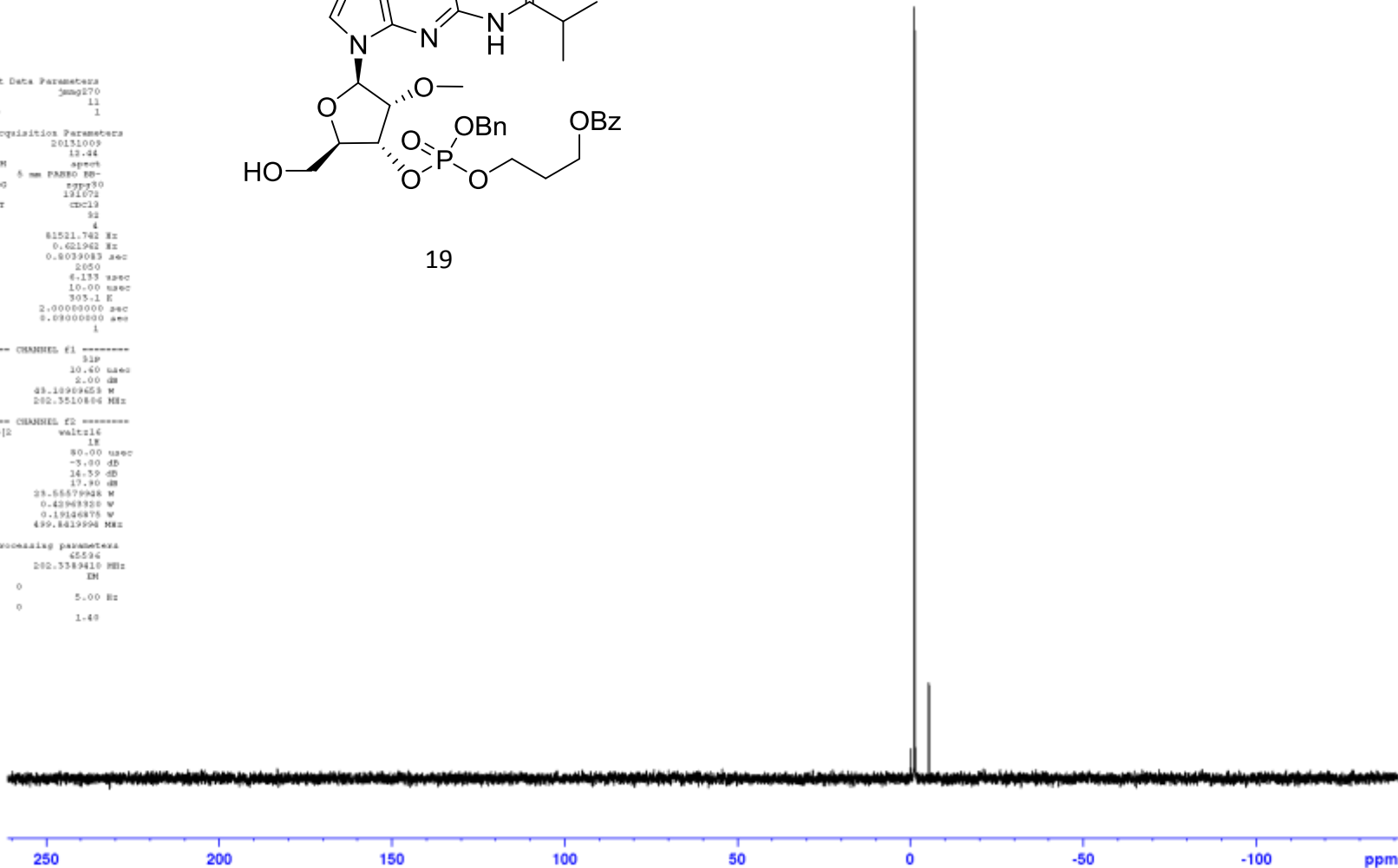
19

Current Data Parameters
NAME 3mg270
EXPNO 11
PROCNO 1
F2 - Acquisition Parameters
Date_ 20131009
Time 12:44
INSTRUM spect
PROBHD 5 mm PABBO DD-
PULPROG zgpg30
TD 134872
SOLVENT cdcl3
NS 32
DS 4
SWH 81521.742 Hz
FIDRES 0.621962 Hz
AQ 0.8039083 sec
RG 250
DW 6.133 usec
DE 10.00 usec
TE 303.1 K
D3 2.0000000 sec
D31 0.0900000 sec
TEO 1

----- CHANNEL f1 -----
NUC1 31P
P1 10.40 usec
P11 5.00 dB
PL1W 43.1896828 W
SFO1 202.3510846 MHz

***** CHANNEL f2 *****
CHOPPR2 Waltz16
NUC2 1H
PCPD2 80.00 usec
P12 -5.00 dB
P112 14.39 dB
P113 17.80 dB
PL2W 29.65579928 W
PL12W 0.43968320 W
PL13W 0.19166875 W
SFO2 499.8419994 MHz

F2 - Processing parameters
SI 65596
SF 202.3519410 MHz
MCM 3H
SAB 0
LB 5.00 Hz
GB 0
PC 1.43



**³¹P NMR
202 MHz**

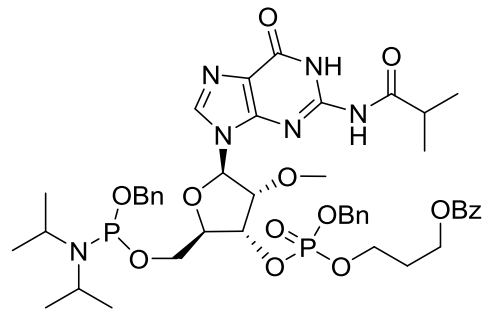
CURRENT DATA Parameters
 NAME 20284
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20131105
 Time 18:21
 INSTRUM spect
 PROBRD 5 mm PARBO BR-
 PULPROG zgpg30
 ID 131072
 SOLVENT cdcl3
 NS 32
 DS 4
 SWH 81521.742 Hz
 FIDRES 0.421962 Hz
 AQ 0.803483 sec
 RG 2050
 DN 6.132 usec
 DE 6.50 usec
 TE 303.0 K
 D1 2.0800000 sec
 D11 0.0300000 sec
 TDO 1

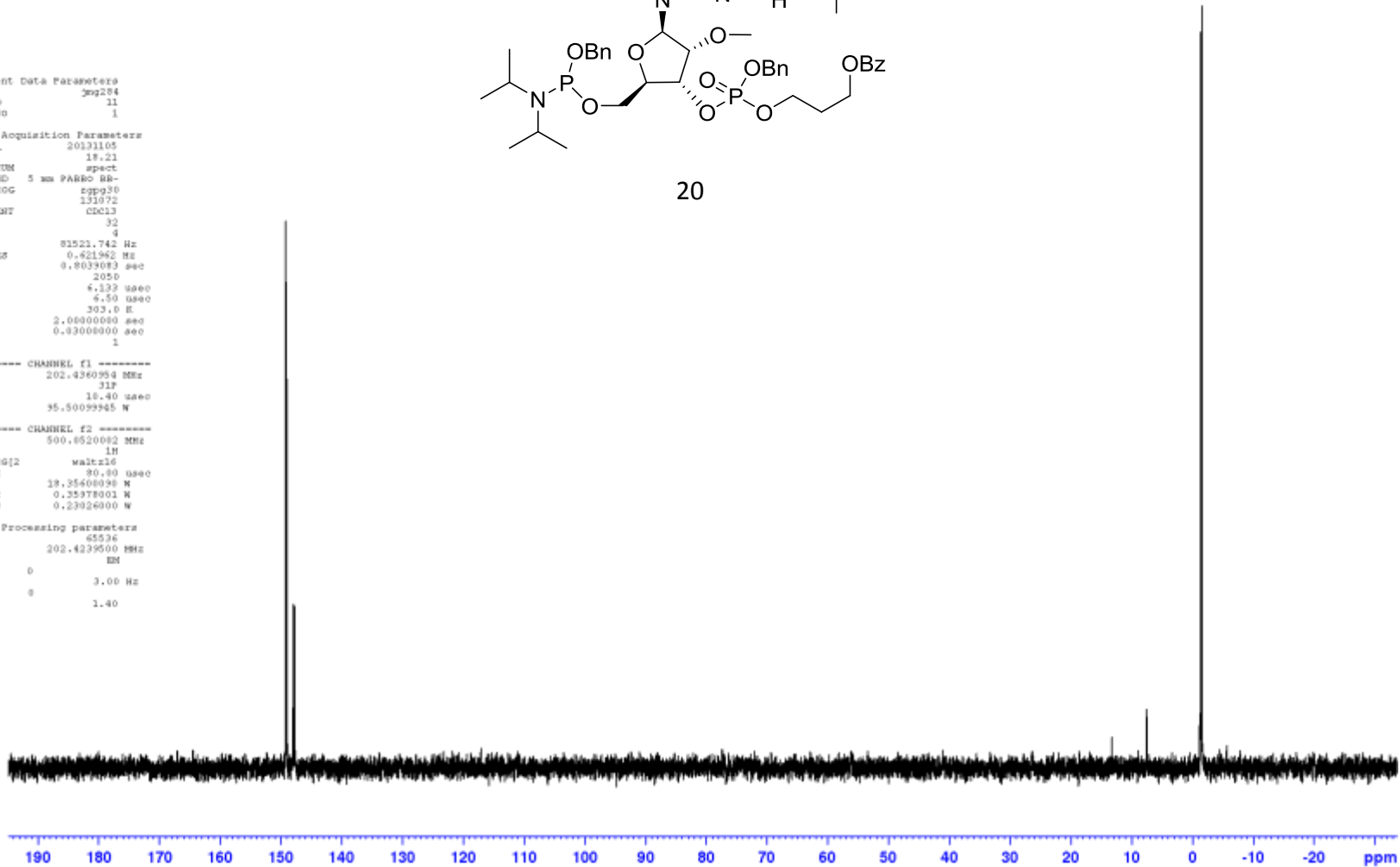
----- CHANNEL f1 -----
 SF01 202.4360954 MHz
 NUCL 31P
 P1 18.40 usec
 PL1 35.50099945 W

----- CHANNEL f2 -----
 SF02 500.852082 MHz
 NUC2 1H
 CPDPRG2 waltz16
 PCPD2 30.00 usec
 PLM2 18.35608098 W
 PLM12 0.35978001 W
 PLM13 0.23926000 W

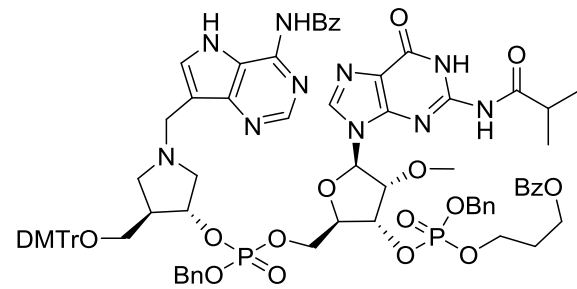
F2 - Processing parameters
 SI 65536
 SF 202.4239500 MHz
 NUW EM
 SR 0
 LR 3.00 Hz
 GB 0
 PC 1.40



20



¹H NMR
500 MHz

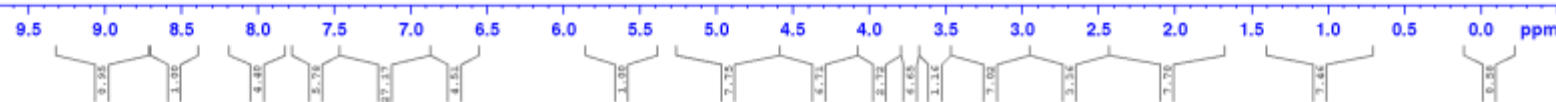
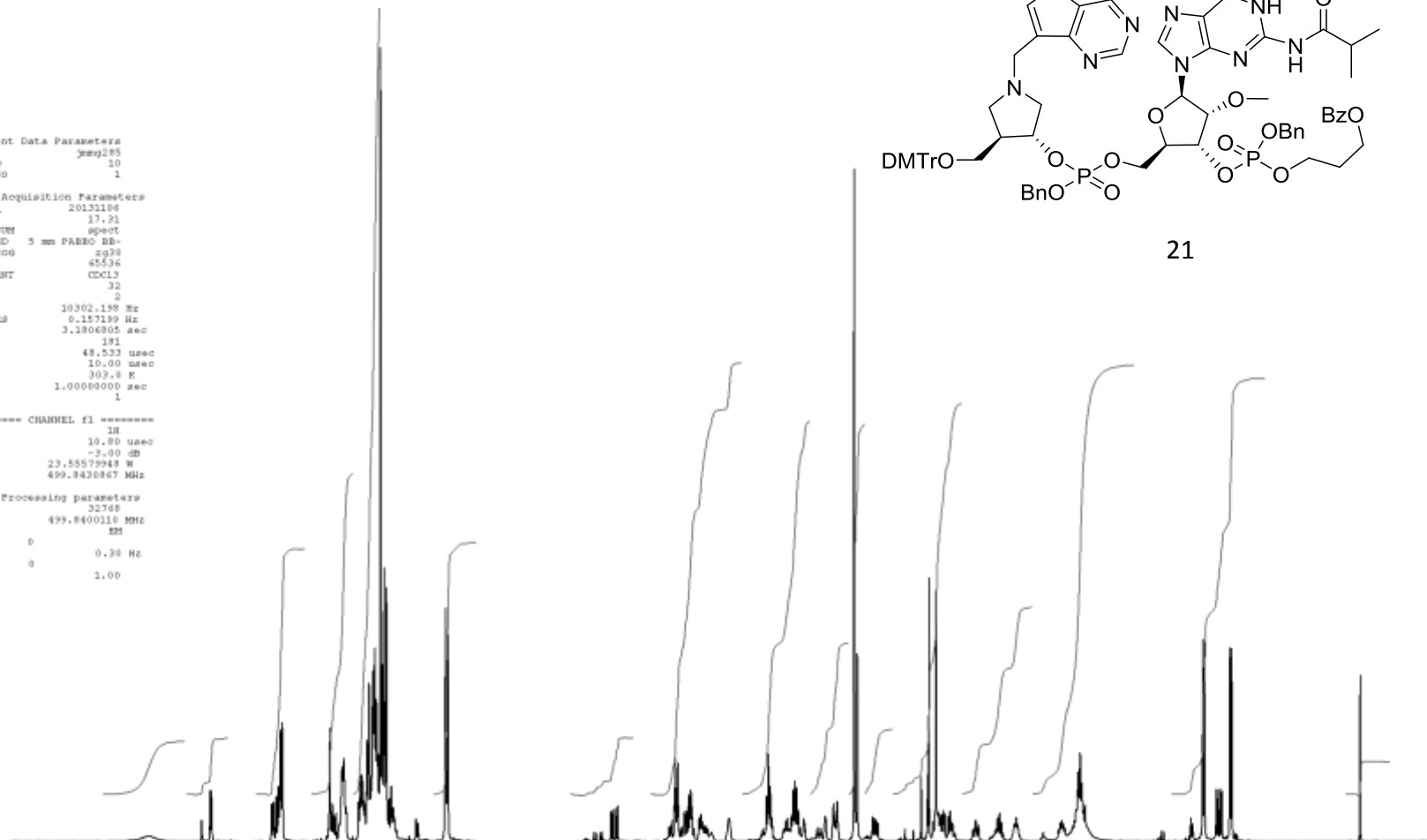


Current Data Parameters
NAME Jmg285
EXPNO 10
PROCNO 1

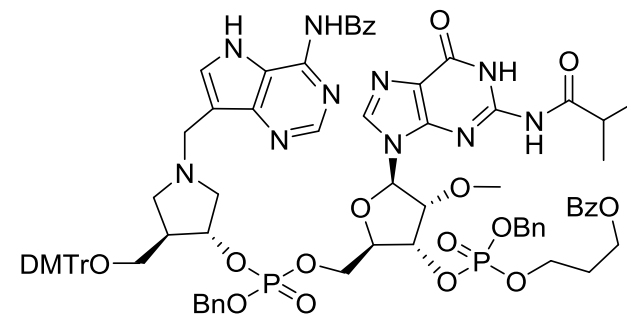
F2 - Acquisition Parameters
Date_ 20121106
Time 17.21
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1806805 sec
RG 381
CW 48.533 usec
DE 10.00 usec
TE 303.2 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 18.00 usec
PL1 -3.00 dB
PL1W 23.55579943 M
SFO1 499.8420867 MHz

F2 - Processing parameters
SI 32768
SF 499.8400118 MHz
NRM RM
SFO 0
LA 0 0.39 Hz
GB 0
PC 1.00



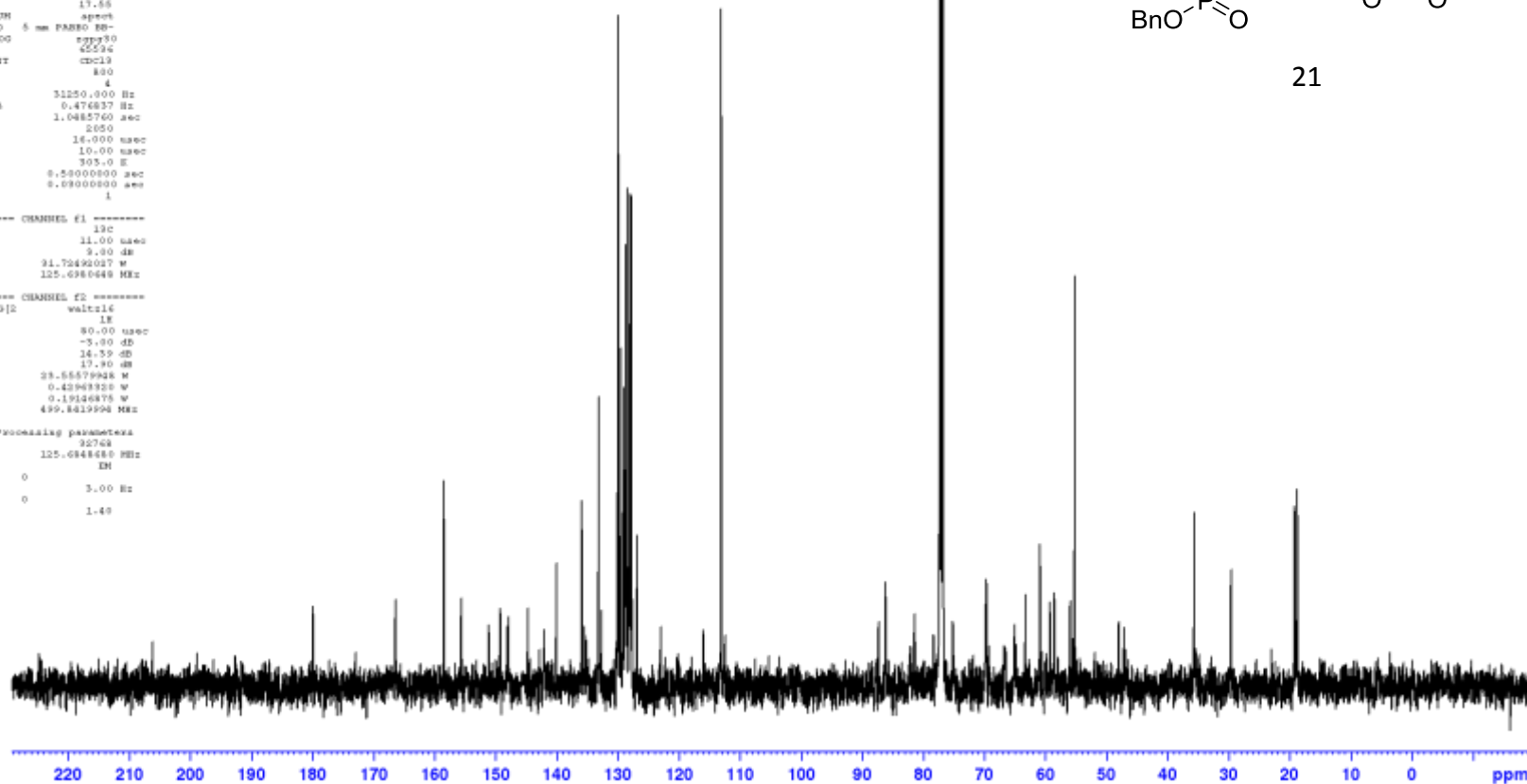
¹³C NMR
126 MHz



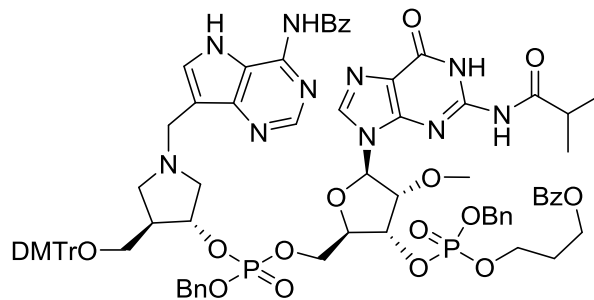
21

```

Current Data Parameters
NAME      Jmgg285
EXPNO    11
PROCNO   1
-----
F2 - Acquisition Parameters
Date_    20131106
Time     17.58
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SFO      31250.000 MHz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.00 usec
TE       303.0 K
D3       0.58000000 sec
D11      0.09000000 sec
TEO      1
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.80 dB
P11W    31.7049027 W
SFO1     125.0984648 MHz
----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       -3.80 dB
P21      14.39 dB
P21W    17.80 dB
P21W    29.65579948 W
P12W    0.43968320 W
P11W    0.19186875 W
SFO2     499.8419994 MHz
-----
F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCW      IM
ASB      0
LB       3.00 Hz
GB       0
PC       1.49
  
```



^{31}P NMR
202 MHz



21

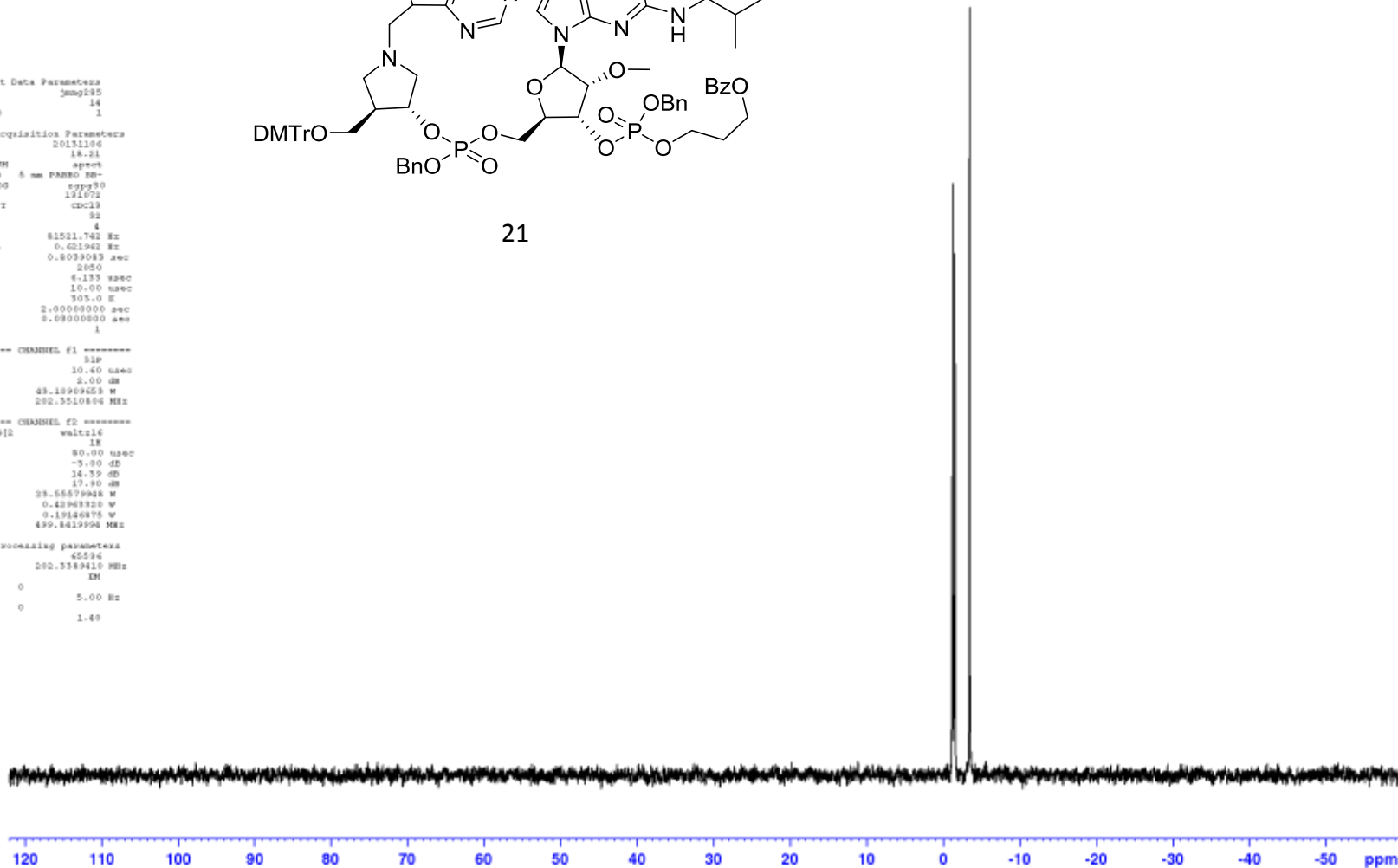
```
Current Data Parameters
NAME      mag285
EXPNO    14
PROCNO   1

F2 - Acquisition Parameters
Date_    20131106
Time     18:21
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       134072
SOLVENT  cdcl3
NS       32
DS       4
SWH      61521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
TE       303.0 K
D3       2.00000000 sec
D11      0.09000000 sec
TEO      1

----- CHANNEL f1 -----
NUC1     31P
P1       10.40 usec
P11      5.00 dB
P11W     43.1896825 W
SFO1     202.3510846 MHz

***** CHANNEL f2 *****
CHOPPRG2 waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.00 dB
P112     14.39 dB
P113     17.80 dB
P12W     29.65579928 W
P112W    0.43968320 W
P113W    0.19166875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       65536
SF       202.3389410 MHz
MEM      1M
SAB      0
LB       5.00 Hz
GB       0
PC       1.49
```



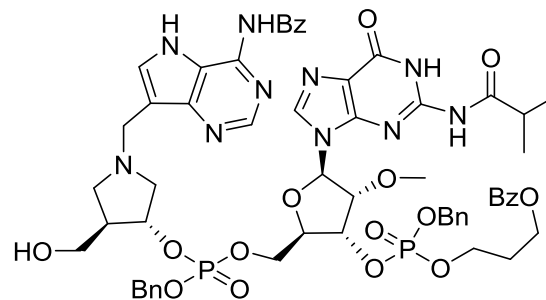
¹H NMR
500 MHz

Current Data Parameters
NAME jmg284
EXPNO 10
PROCNO 1

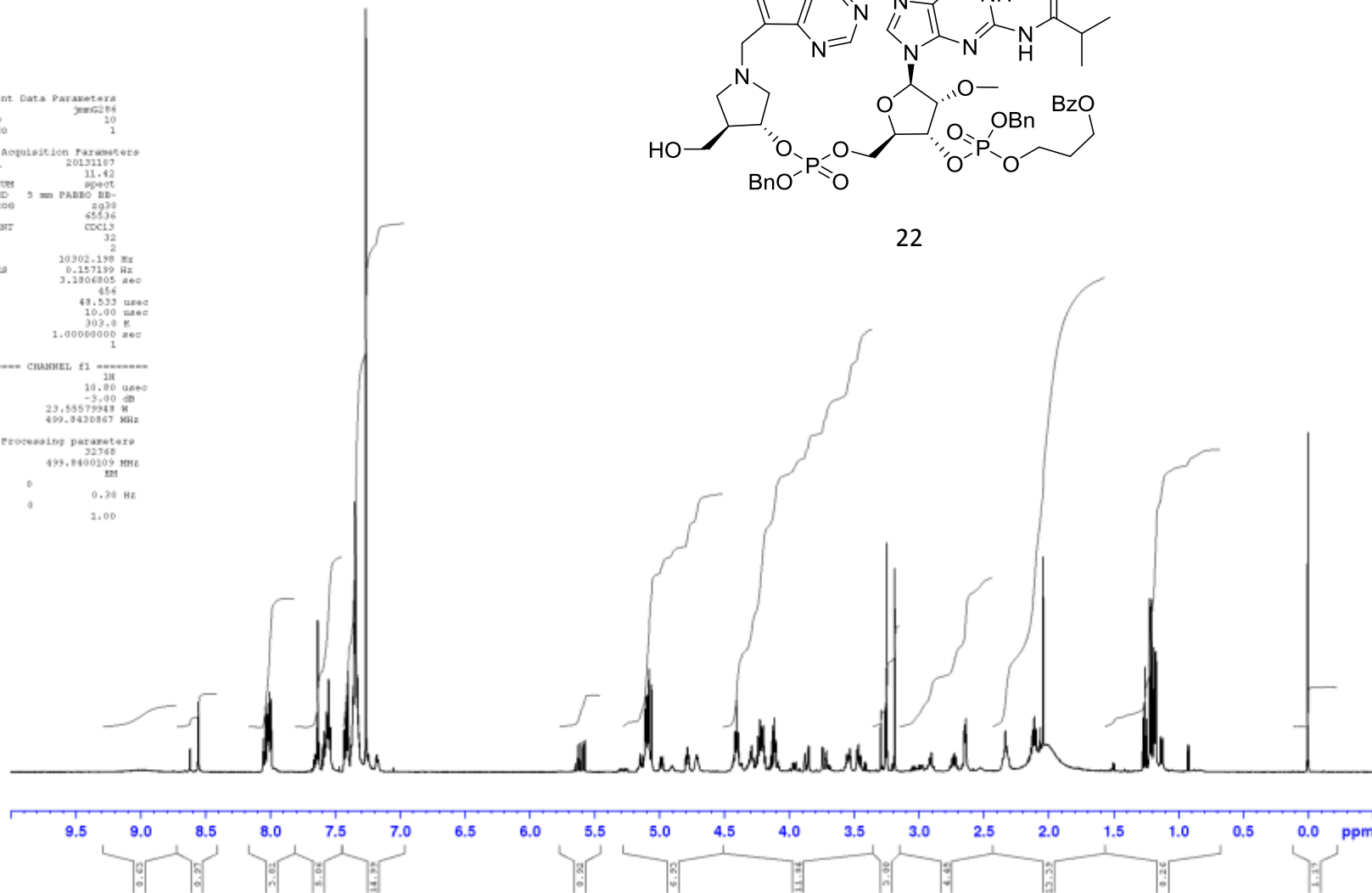
F2 - Acquisition Parameters
Date_ 20131107
Time 11:42
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1804805 sec
RG 454
CW 48.533 usec
DE 10.00 usec
TE 303.2 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 18.00 usec
PL1 -3.00 dB
PL1W 23.55579943 M
RFOL 499.8420867 MHz

F2 - Processing parameters
SI 32768
SF 499.8400109 MHz
NMW MHz
SSB 0
LA 0 0.39 Hz
GB 0
PC 1.00



22



**¹³C NMR
126 MHz**

```

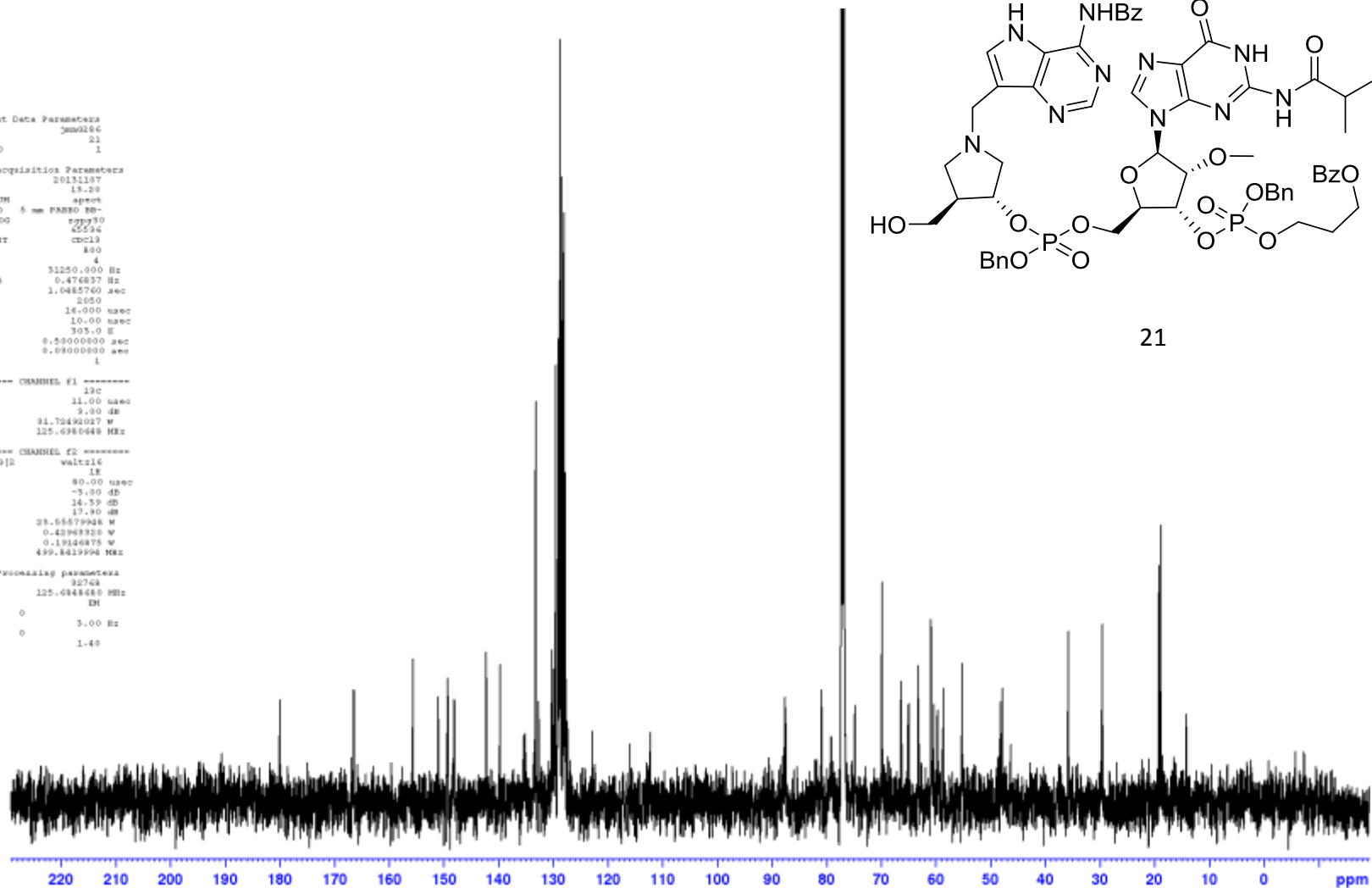
Current Data Parameters
NAME      jsm028c
EXPNO    21
PROCNO   1

F2 - Acquisition Parameters
Date_    20131107
Time     13.28
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SWH      31250.000 Hz
FIDRES  0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.000 usec
TE       303.0 K
D3       0.58000000 sec
D11      0.09000000 sec
TEO      1

----- CHANNEL f1 -----
NUC1     13c
P1       11.00 usec
P11      9.00 dB
P11M     21.7049027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       -3.00 dB
P21      14.39 dB
P21M     17.90 dB
P21M     29.65579928 W
P112M    0.43968320 W
P112M    0.19186875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCW      IM
ASD      0
LB       3.00 Hz
GB       0
PC       1.49
  
```



**³¹P NMR
202 MHz**

```

Current Data Parameters
NAME      jmm028c
EXPNO    26
PROCNO   1

F2 - Acquisition Parameters
Date_    20131107
Time     14:30
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       131072
SOLVENT  cdcl3
NS       32
DS       4
SFO      61521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
TE       303.1 K
D3       2.0000000 sec
D11      0.0900000 sec
TEO      1
  
```

```

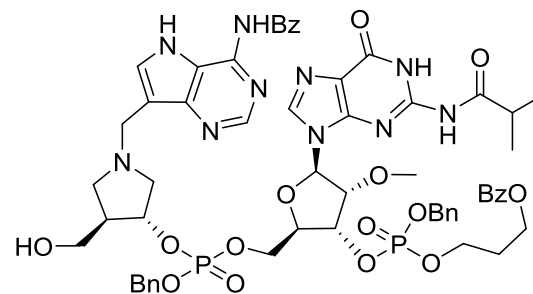
----- CHANNEL F1 -----
NUC1     31P
P1       10.40 usec
P11      5.00 dB
P11W     43.18969458 W
SFO1     202.3510846 MHz
  
```

```

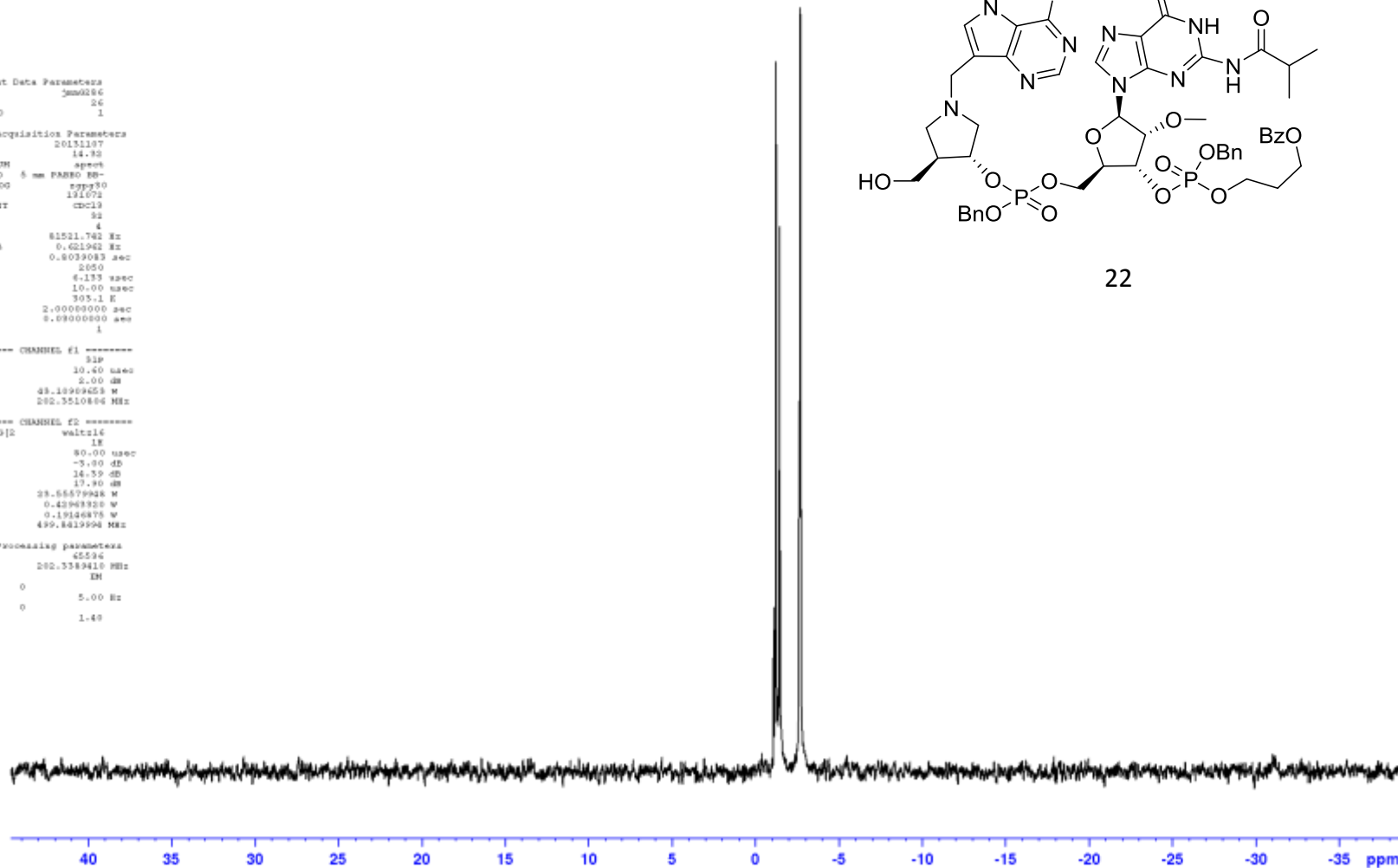
***** CHANNEL F2 *****
CPCPFGP2 waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -5.80 dB
P12W     14.39 dB
P113     17.80 dB
P13W     29.65579948 W
P113M    0.43968320 W
P113W    0.19166875 W
SFO2     499.8419994 MHz
  
```

```

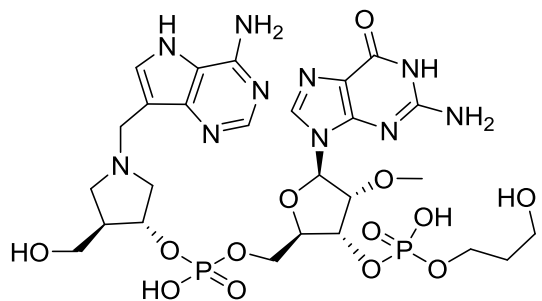
F2 - Processing parameters
SI       65536
SF       202.3519410 MHz
MCM      IM
SAB      0
LB       5.00 Hz
GB       0
PC       1.40
  
```



22



¹H NMR
500 MHz



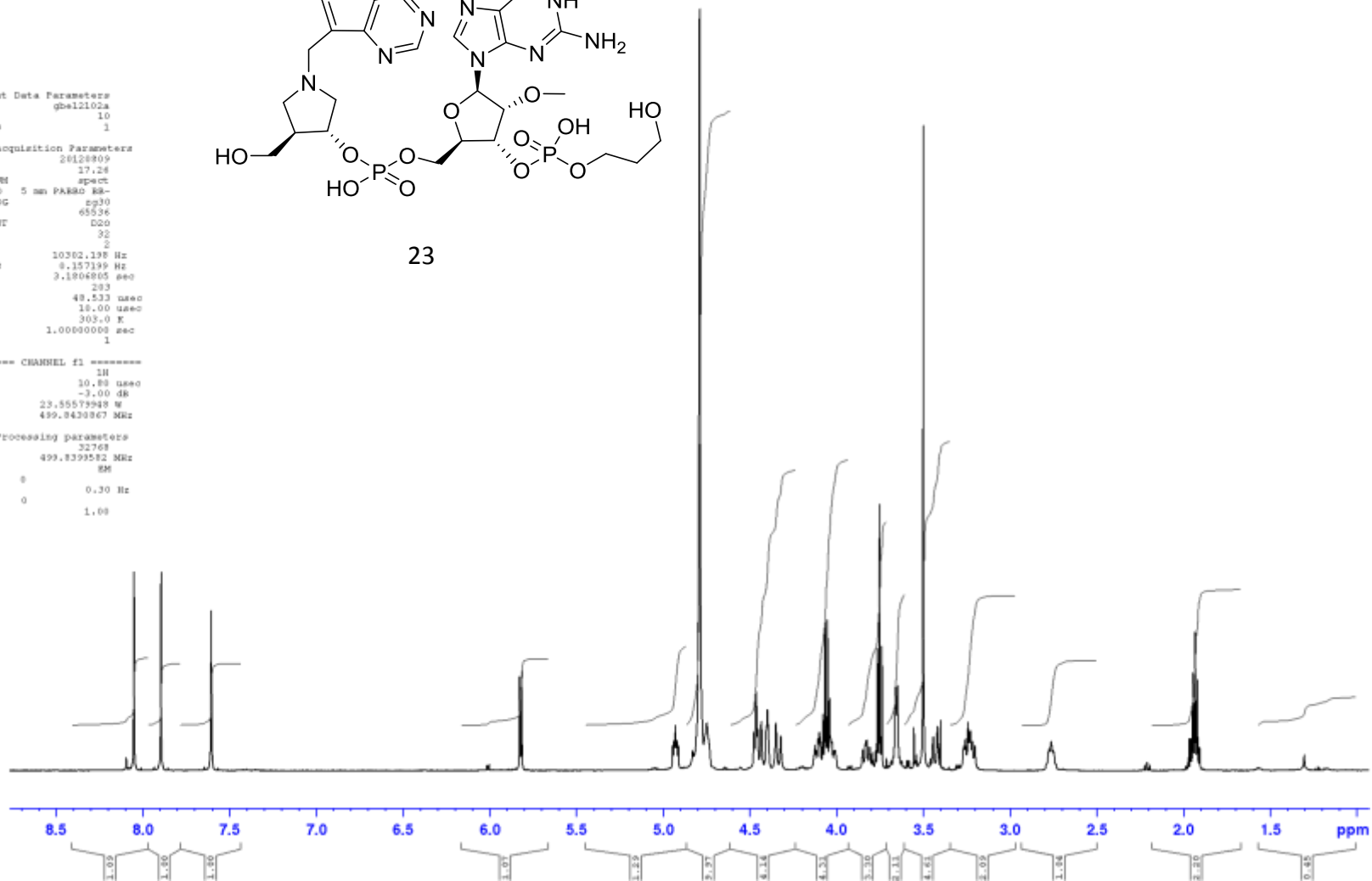
23

Current Data Parameters
NAME gb12102a
EXPNO 10
PROCNO 1

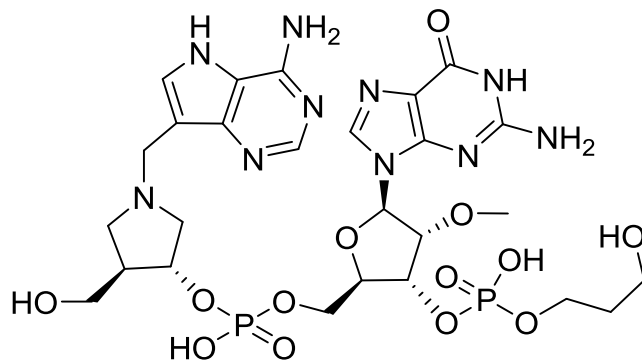
F2 - Acquisition Parameters
Date_ 20120909
Time 17.24
INSTRUM spect
PROBHD 5 mm PABBO BA-
PULPROG zg30
ID 65536
SOLVENT D2O
NS 32
DS 2
SWH 10302.138 Hz
FIDRES 0.157199 Hz
AQ 3.1804805 sec
RG 283
DN 48.533 usec
DE 18.00 usec
TE 303.0 K
D1 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
P11 -3.00 dB
PL1 23.55579948 W
SFO1 499.8430867 MHz

F2 - Processing parameters
SI 32768
SF 499.8399582 MHz
NUC RM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz



23

```

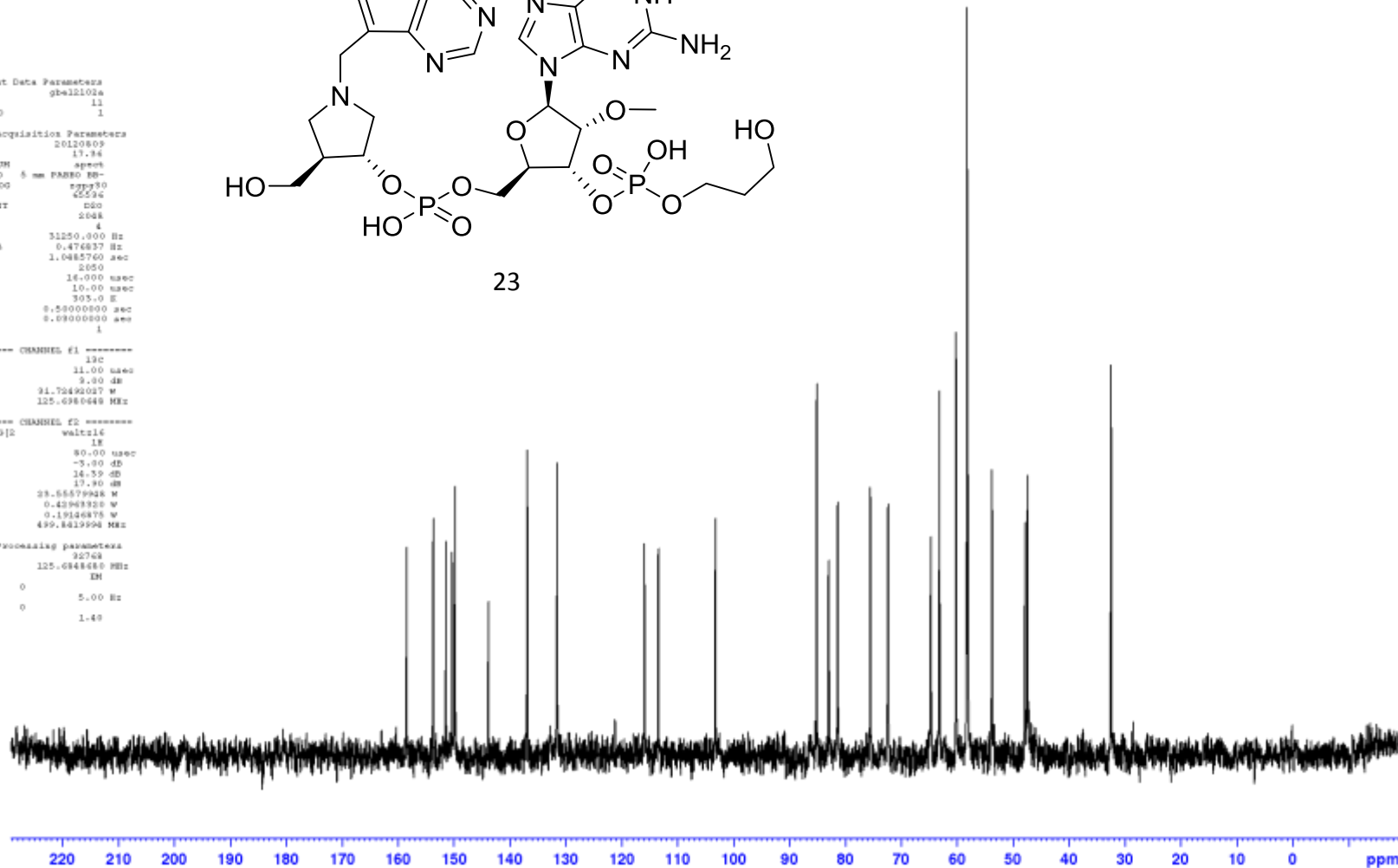
Current Data Parameters
NAME      gbal2102a
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20120609
Time     17.34
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  d2o
NS       2048
DS       4
SWH      31250.000 Hz
FIDRES  0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.000 usec
TE       303.0 K
D3       8.58000000 sec
D11      8.09000000 sec
TEO      1

----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.80 dB
P11W    31.7049027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       -3.80 dB
P21      14.39 dB
P21W    17.80 dB
P23W    29.65579948 W
P12W    0.43968320 W
P13W    0.19186878 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCM      EM
ASB      0
LB       5.00 Hz
GB       0
PC       1.49
  
```



**³¹P NMR
202 MHz**

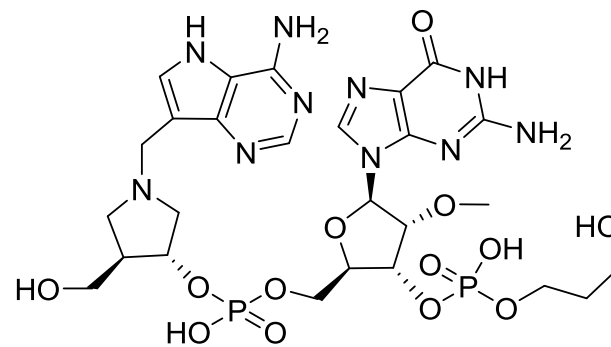
```
Current Data Parameters
NAME          g812-102a
EXPNO        11
PROCNO       1

F2 - Acquisition Parameters
Date_        20120909
Time         12.08
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           131072
SOLVENT      D2O
RG           320
DS           4
SWH          81921.742 Hz
FIDRES      0.621962 Hz
AQ          0.8039083 sec
RG          2058
DW          6.123 usec
DE          6.50 usec
TE          299.2 K
D1          3.80000000 sec
d11         0.03000000 sec
TE0         1

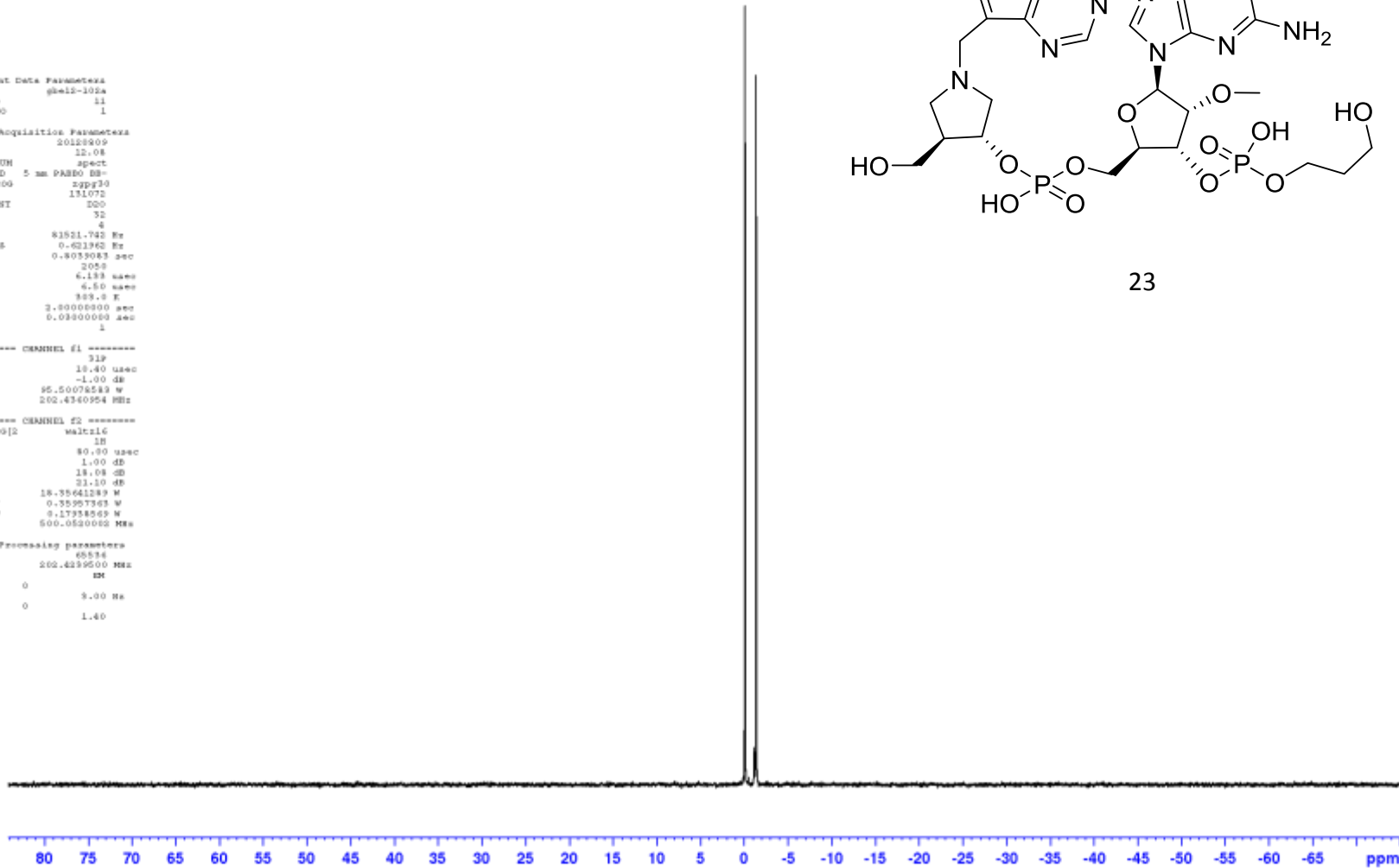
===== CHANNEL f1 =====
NUC1         31P
P1          18.40 usec
P11         -1.00 dB
P1LM       55.50078523 W
SFO1        202.4340954 MHz

===== CHANNEL f2 =====
CHOPPRG2    mltic16
NUC2         1H
PCPD2       80.80 usec
P12         1.00 dB
P1L2        19.08 dB
P1L3        21.10 dB
P1LM       18.35641289 W
P1L2M      0.35907363 W
P1L3M      0.17948569 W
SFO2        500.0520082 MHz

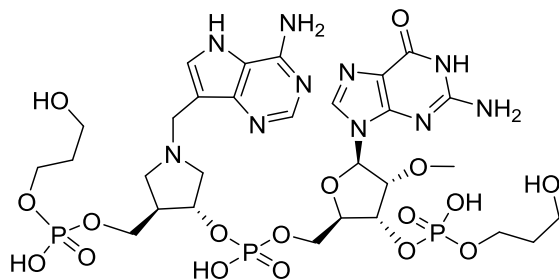
F2 - Processing parameters
SI          65536
SF          202.4239500 MHz
NCM         324
ZSN         0
LB          3.00 Hz
GB          0
PC          1.40
```



23



**¹H NMR
500 MHz**



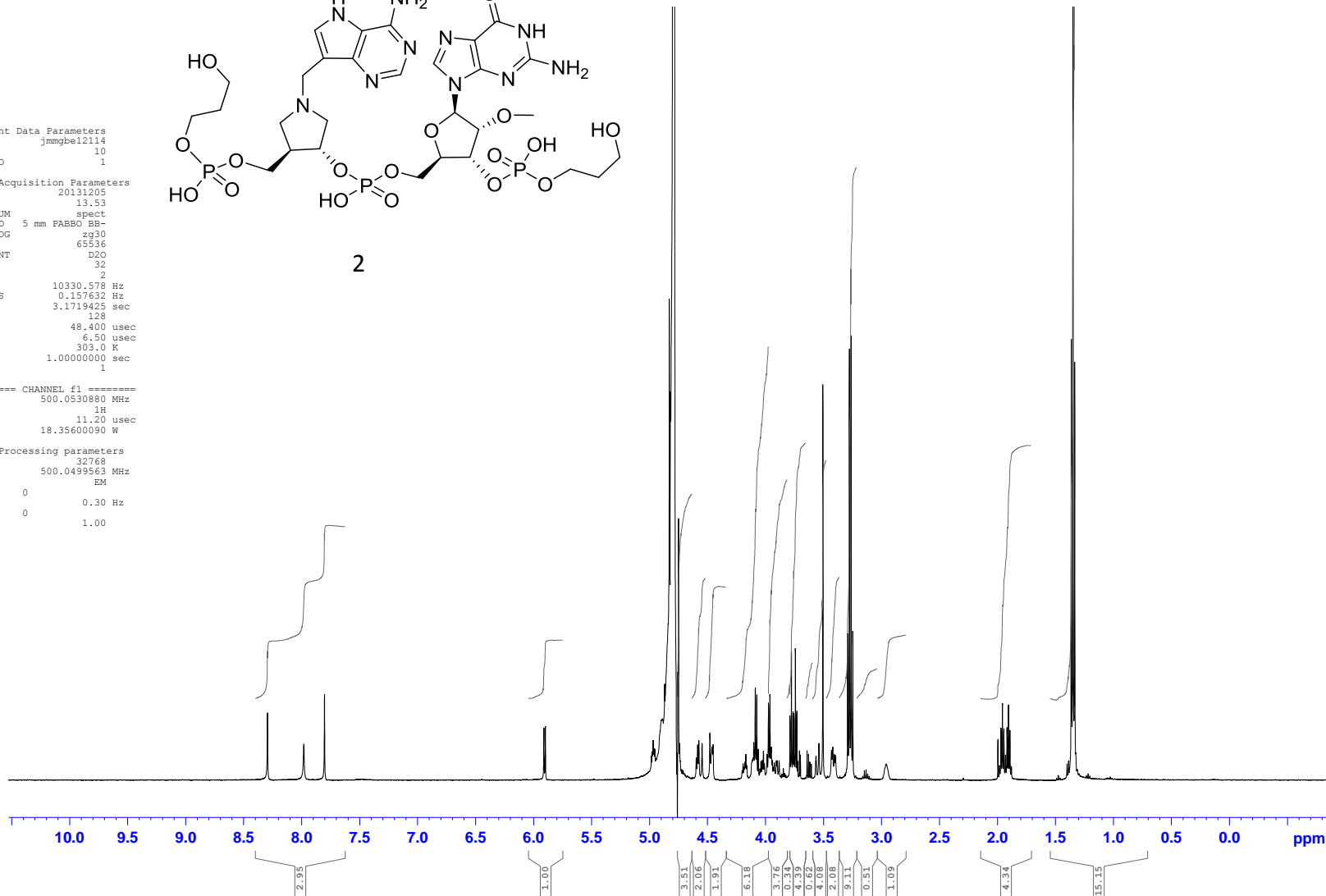
2

Current Data Parameters
NAME jmmgbel2114
EXPNO 10
PROCNO 1

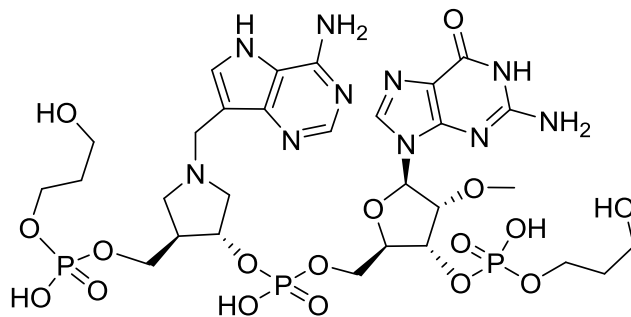
F2 - Acquisition Parameters
Date_ 20131205
Time 13.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT d2o
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 128
DW 48.400 usec
DE 6.50 usec
TE 303.0 K
D1 1.0000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 500.0530880 MHz
NUC1 1H
P1 11.20 usec
PLWL 18.35600090 W

F2 - Processing parameters
SI 32768
SF 500.0499563 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



**¹³C NMR
126 MHz**



2

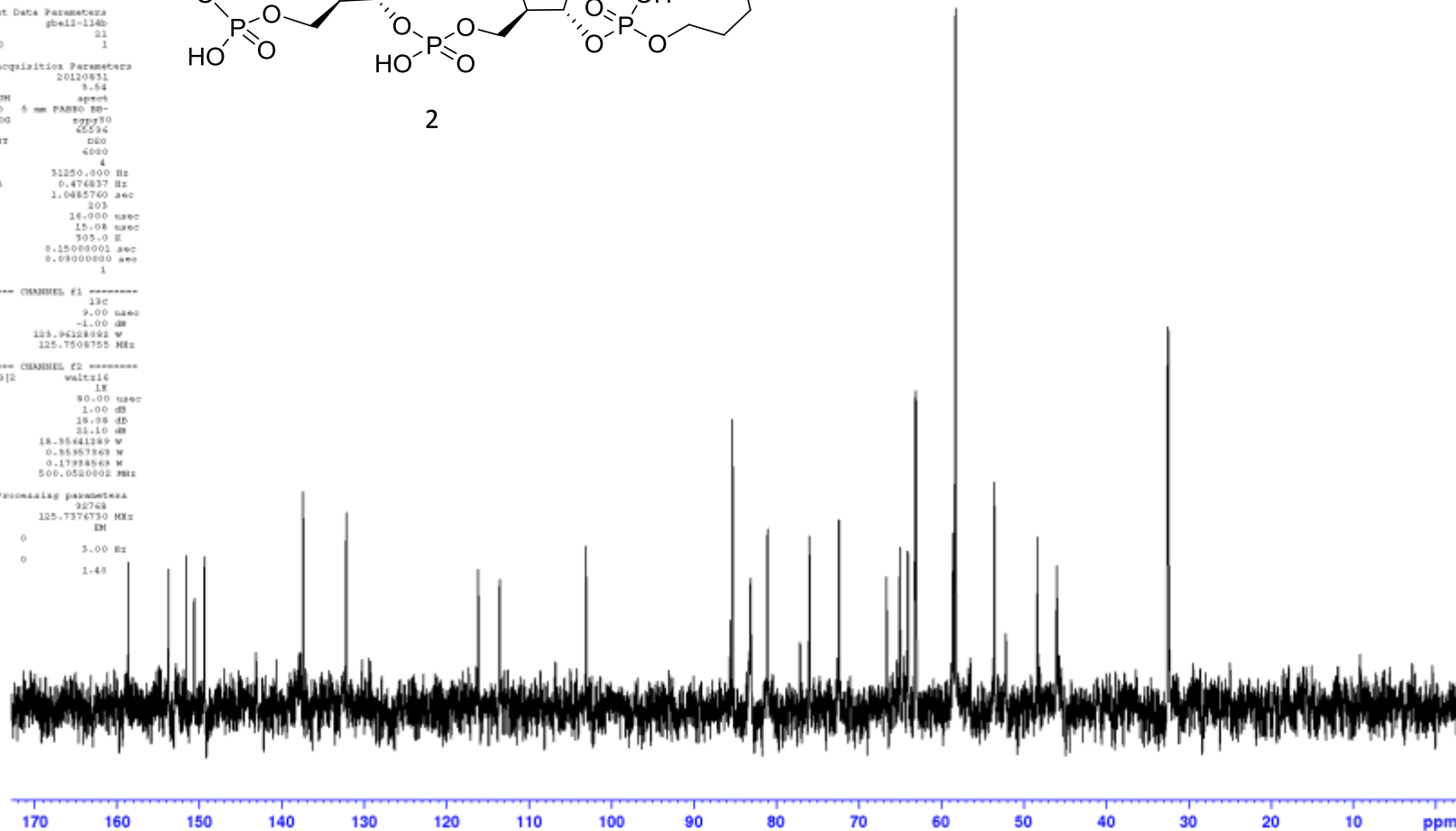
```
Current Data Parameters
NAME          gb412-114b
EXPNO         21
PROCNO        1

F2 - Acquisition Parameters
Date_         20120831
Time          3.54
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       D2O
NS            4080
DS            4
SWH           31250.000 Hz
FIDRES       0.476837 Hz
AQ           1.0485760 sec
RG           203
DW           16.000 usec
DE           15.08 usec
TE           303.0 K
D3           8.15000001 sec
D11          8.09000000 sec
TEO          1
```

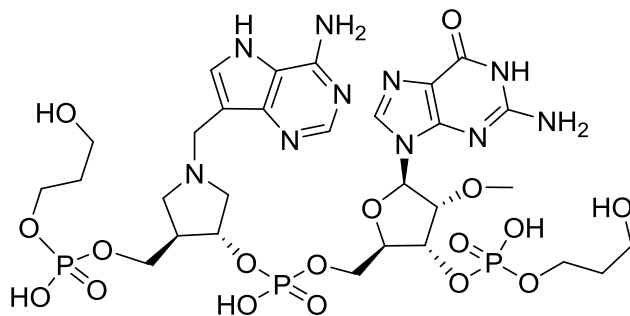
```
----- CHANNEL f1 -----
NUC1          13C
P1            9.00 usec
P11          -1.00 dB
P1LW        125.9428884 W
SFO1         125.7508755 MHz
```

```
----- CHANNEL f2 -----
CPOBPRG1     waltz16
NUC2          1H
PCPD2        80.00 usec
P12          1.00 dB
P1L2        19.98 dB
P1L3        21.10 dB
P13W        18.95441289 W
P1L3W       0.35867363 W
P1L3W       0.17983689 W
SFO2         500.0520002 MHz
```

```
F2 - Processing parameters
SI           32768
SF           125.7376730 MHz
RG           64
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.49
```



31P NMR
202 MHz

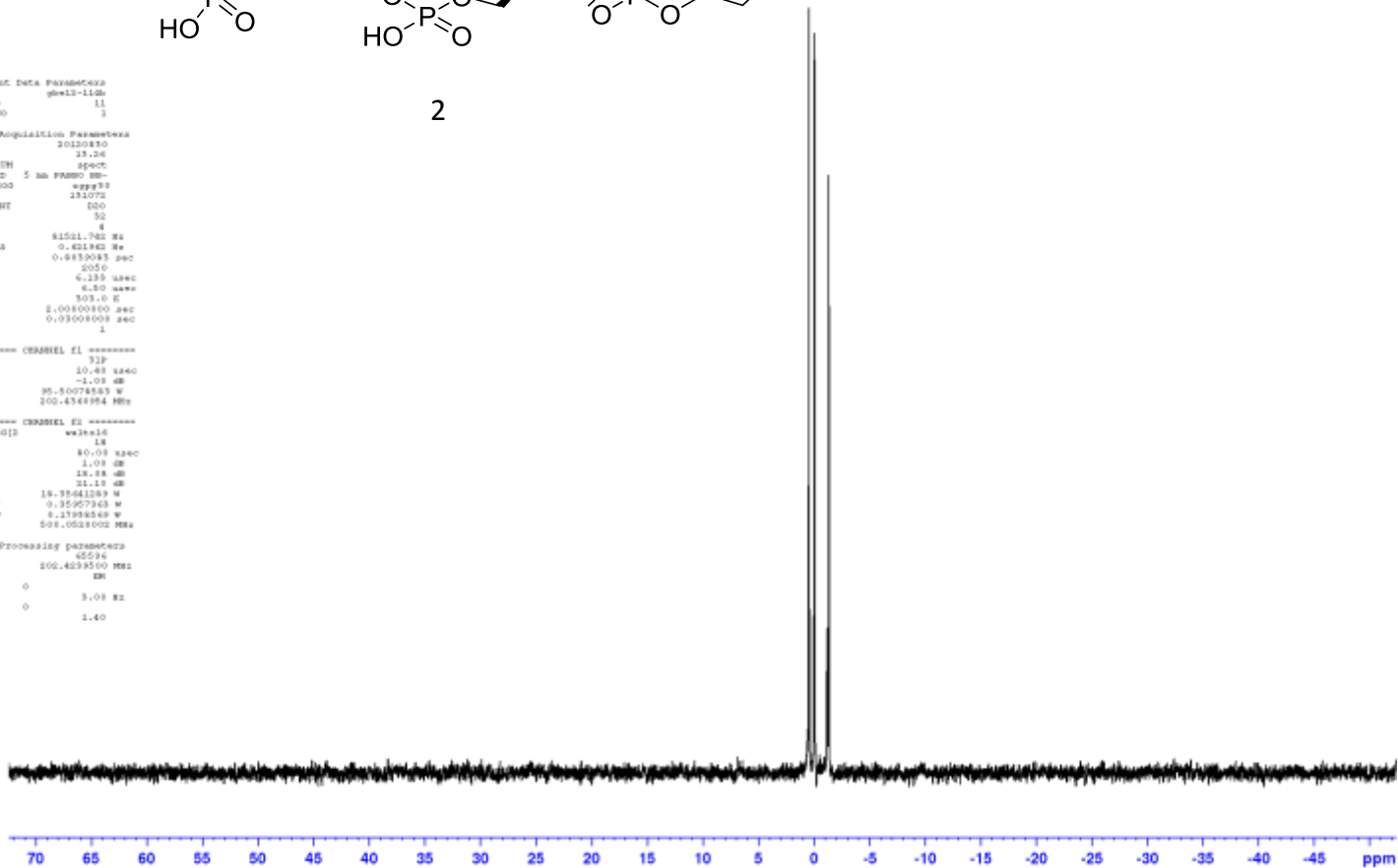


2

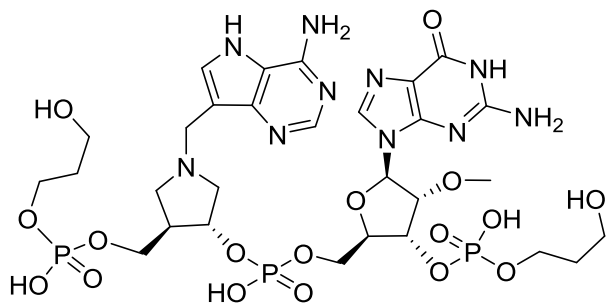
```

=====
CURVED DATA PARAMETERS
NAME          gsh12-112b
EXPNO        11
PROCNO       1
=====
F2 - Acquisition Parameters
Date_        20120810
Time         23.20
INSTRUM      spect
PROBHD      5 mm PNMQ 2H-
PULPROG      zgpg30
TD           262072
AQ          100
RG           512
DS           4
SFO         125.760 MHz
FIDRES      0.421963 Hz
AQ          0.4832093 sec
RG          2050
DM          6.230 mm
DC          6.80 mm
TE          303.0 K
D1          2.0080000 sec
D11         0.0300000 sec
TD0         1
=====
===== CHANNEL f1 =====
NUC1         31P
P1          10.00 usec
PL1         -1.00 dB
PL1W        95.50074843 W
SFO1        202.4234500 MHz
=====
===== CHANNEL f2 =====
CPDPRG2     waltz16
NUC2         1H
PCPD2       80.00 usec
PL2         1.00 dB
PL12        15.00 dB
PL13        21.13 dB
PL1W        18.35611289 W
PL1W        0.35207343 w
PL1W        8.17988549 W
SFO2        500.1362600 MHz
=====
F2 - Processing parameters
SI          45594
SF          202.4234500 MHz
MEM         EM
GB          0
GB          3.00 Hz
GD          0
PC          1.40

```



HPLC



2

Data File D:\DATA\2013\DEC042013\20131204A 2013-12-04 09:54:44\JMGBE12114PREP.D

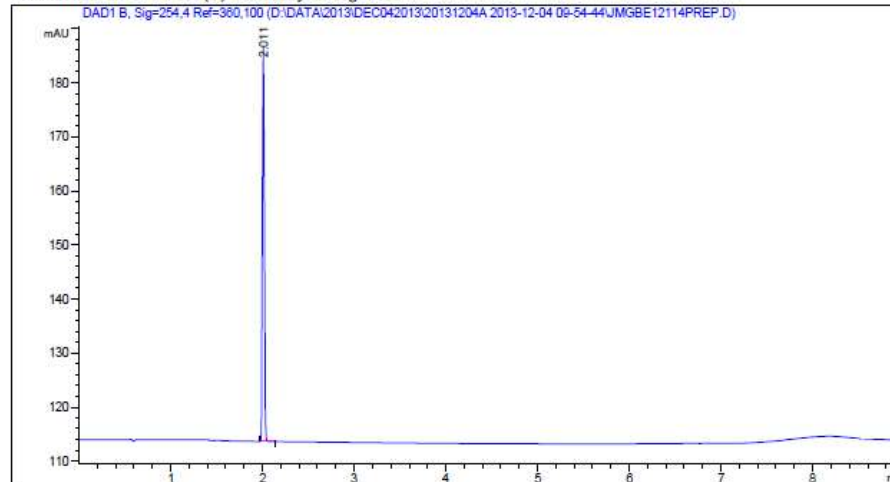
Sample Name: jmgbe12114prep

```

=====
Acq. Operator   : SYSTEM                      Seq. Line   :    5
Acq. Instrument : LCMS                      Location    : Vial 73
Injection Date  : 12/4/2013 10:39:21 AM      Inj         :    1
                                           Inj Volume  : 1.000 µl
Acq. Method     : D:\DATA\DEC042013\20131204A 2013-12-04 09:54-44\P1 T9 AW BM FA 5-50M G5H1 .
                                           9-20.M
Last changed    : 12/4/2013 9:54:44 AM by SYSTEM
Analysis Method : D:\DATA\2013\DEC042013\20131204A 2013-12-04 09:54-44\P1 T9 AW BM FA 5-50M
                                           G5H1 .9-20.M (Sequence Method)
Last changed    : 12/4/2013 9:54:44 AM by SYSTEM
Method Info     : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-
                                           5min 5-50%B; T5-6 min 50%B; Flow 0.5 mL/min; m/z 100-1000
    
```

Additional Info : Peak(s) manually integrated

DAD1 B, Sig=254,4 Ref=360,100 (D:\DATA\2013\DEC042013\20131204A 2013-12-04 09:54-44\JMGBE12114PREP.D)



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.011	BB	0.0234	109.22290	73.32470	100.0000

Totals : 109.22290 73.32470

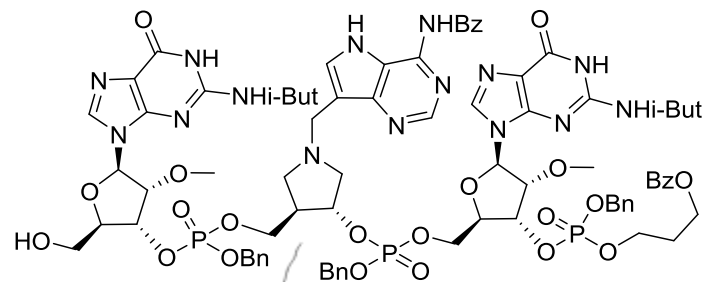
¹H NMR
500 MHz

Current Data Parameters
NAME jmg289
EXPNO 10
PROCNO 1

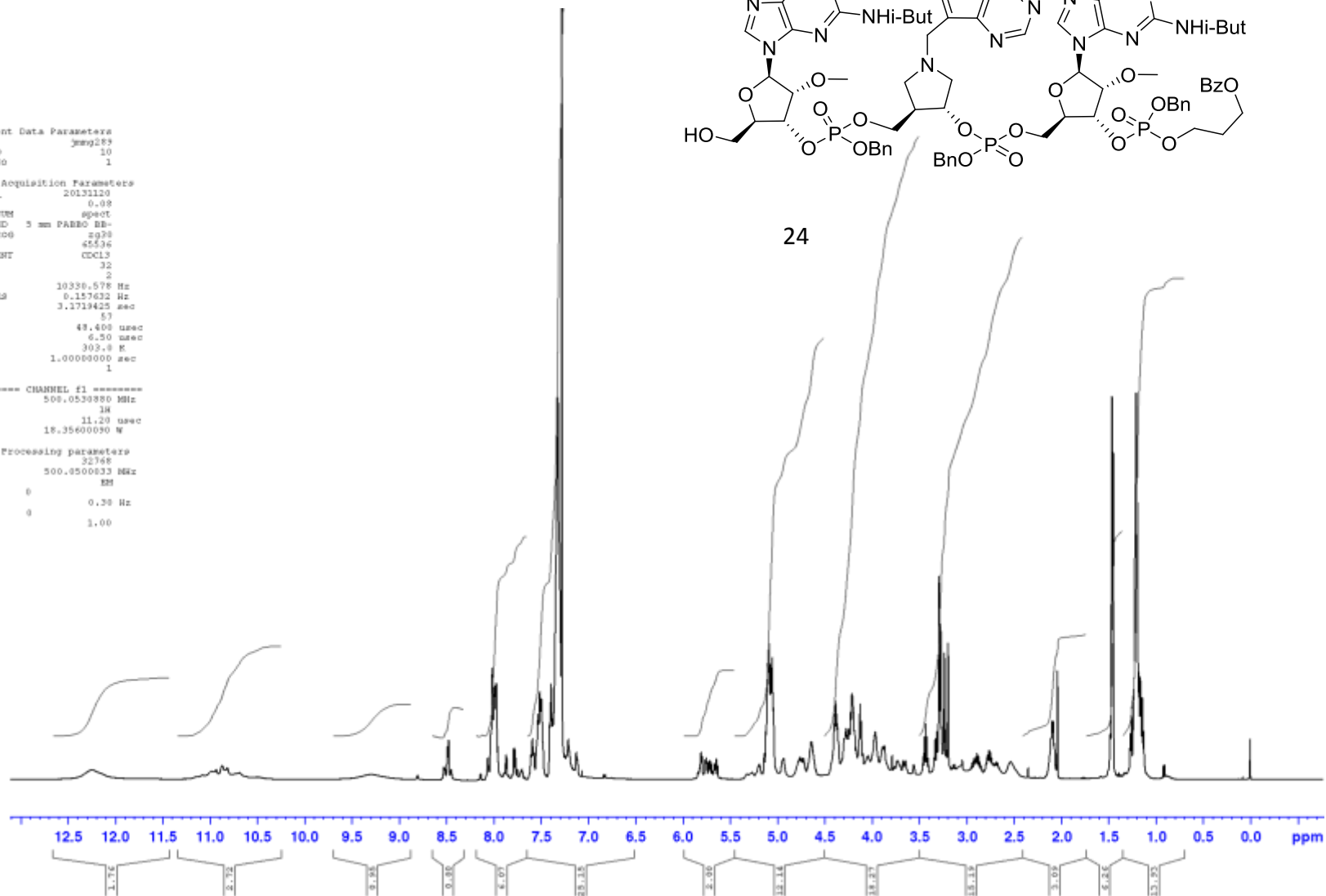
F2 - Acquisition Parameters
Date_ 20131120
Time 0.08
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 57
CW 49.409 usec
DE 6.50 usec
TE 303.2 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
PL1 18.35600090 W

F2 - Processing parameters
SI 32768
SF 500.050033 MHz
NUC 1H
SFB 0
LB 0.30 Hz
GB 0
PC 1.00



24



**¹³C NMR
126 MHz**

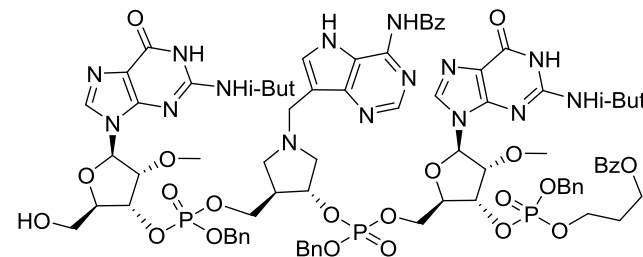
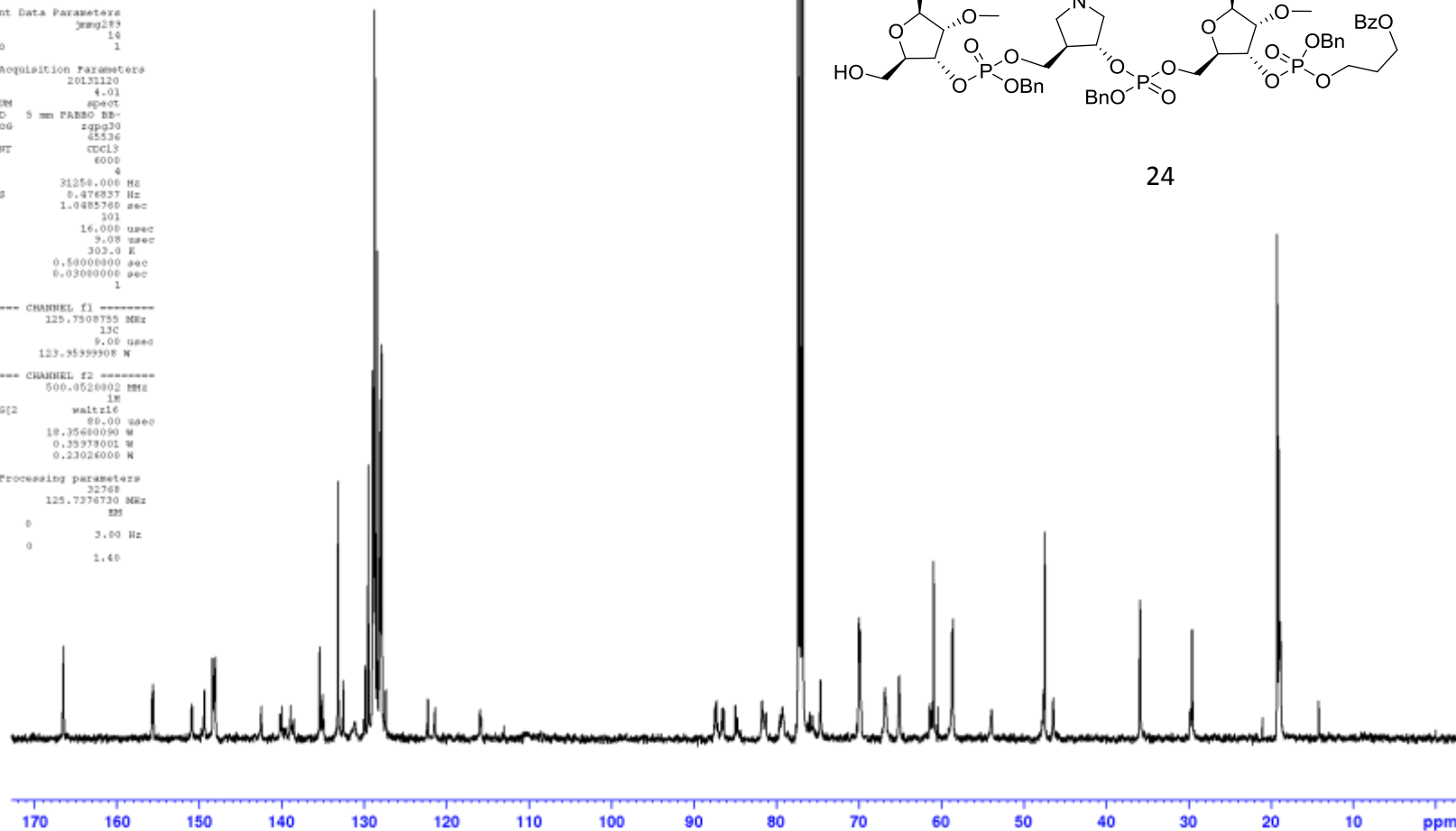
Current Data Parameters
NAME Jmg289
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20131120
Time 4.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT cdcl3
NS 6000
DS 4
SWH 31256.000 MHz
FIDRES 0.476827 Hz
AQ 1.0485700 sec
RG 301
DM 16.000 usec
DE 9.08 usec
TE 303.0 K
D1 0.50000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 125.7508733 MHz
NUC1 13C
P1 9.00 usec
PL1 123.9599908 W

----- CHANNEL f2 -----
SFO2 500.0520002 MHz
NUC2 1H
CFPRG2 waltz16
PCPG2 80.00 usec
PLM2 18.35600090 W
PLM12 0.33978001 W
PLM13 0.23026000 W

F2 - Processing parameters
SI 32768
SF 125.7376730 MHz
NUM 830
SFB 0
LB 3.00 Hz
GB 0
PC 1.40



24

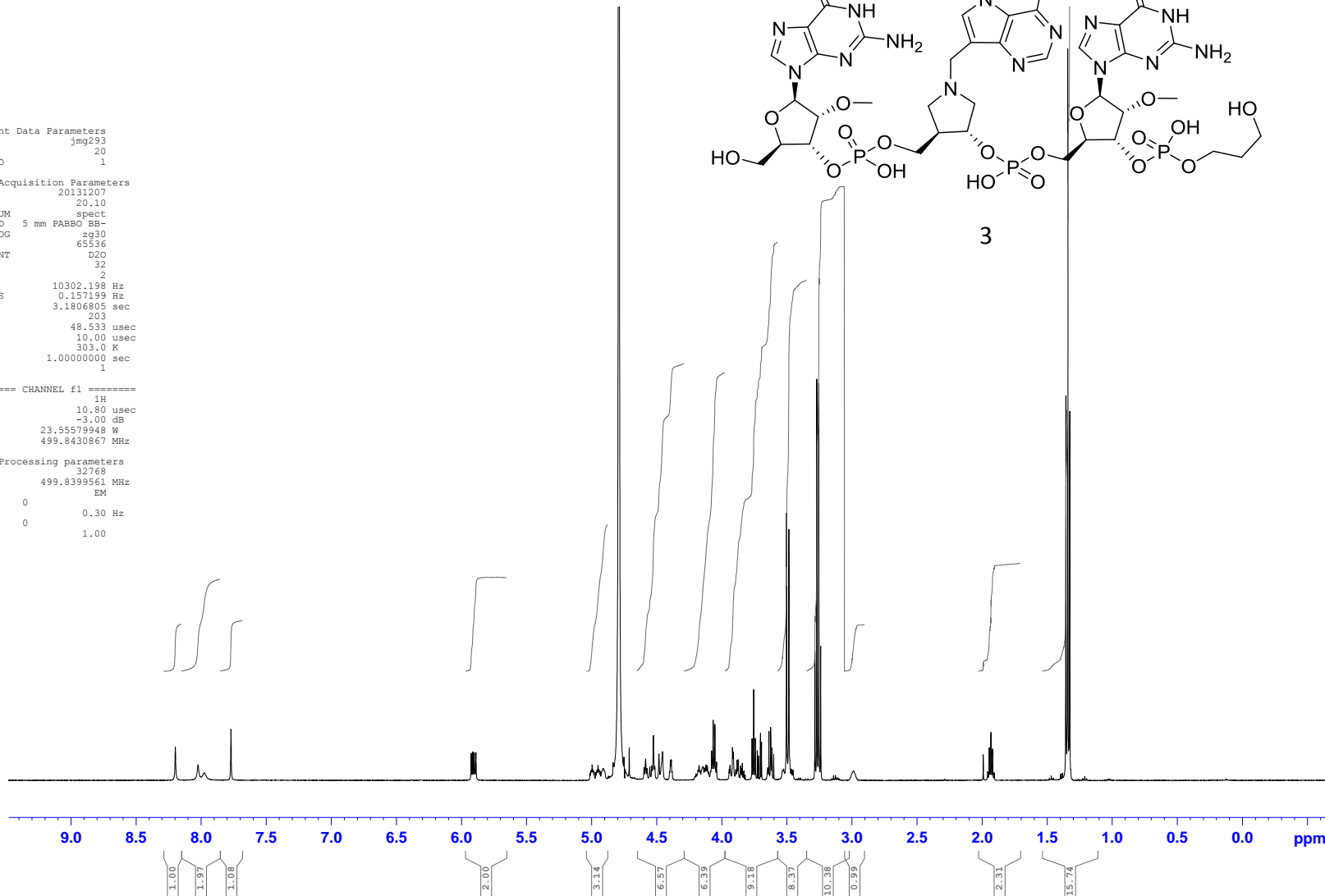
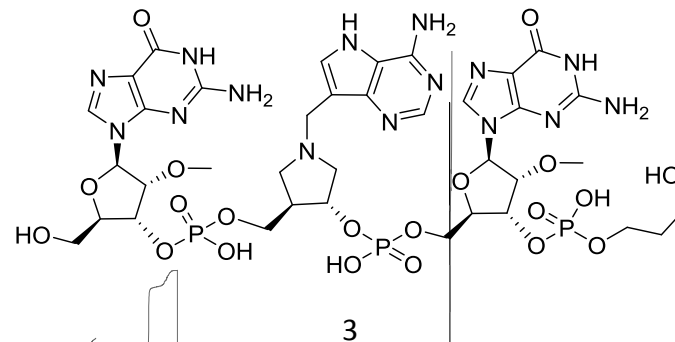
**¹H NMR
500 MHz**

Current Data Parameters
NAME jmg293
EXPNO 20
PROCNO 1

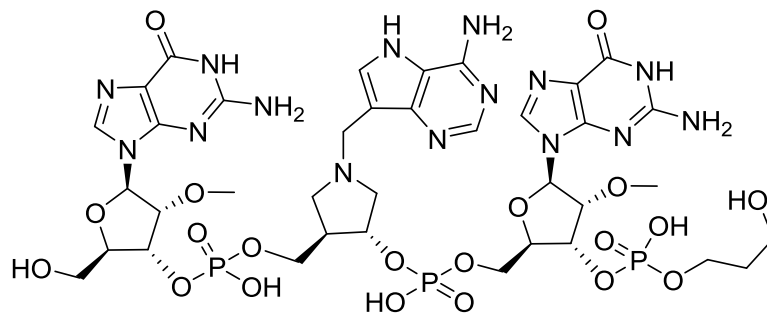
F2 - Acquisition Parameters
Date_ 20131207
Time 20.10
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT d2o
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1806805 sec
RG 203
DW 48.533 usec
DE 10.00 usec
TE 303.0 K
D1 1.0000000 sec
TDO 1

===== CHANNEL f1 =====
NUCL 1H
P1 10.80 usec
PL1 -3.00 dB
PL1W 23.55579948 W
SFO1 499.8430867 MHz

F2 - Processing parameters
SI 32768
SF 499.8399561 MHz
WDM EM
SGB 0
LB 0.30 Hz
GB 0
FC 1.00



¹³C NMR
126 MHz



3

```

Current Data Parameters
NAME      3a493
EXPNO    24
PROCNO    1

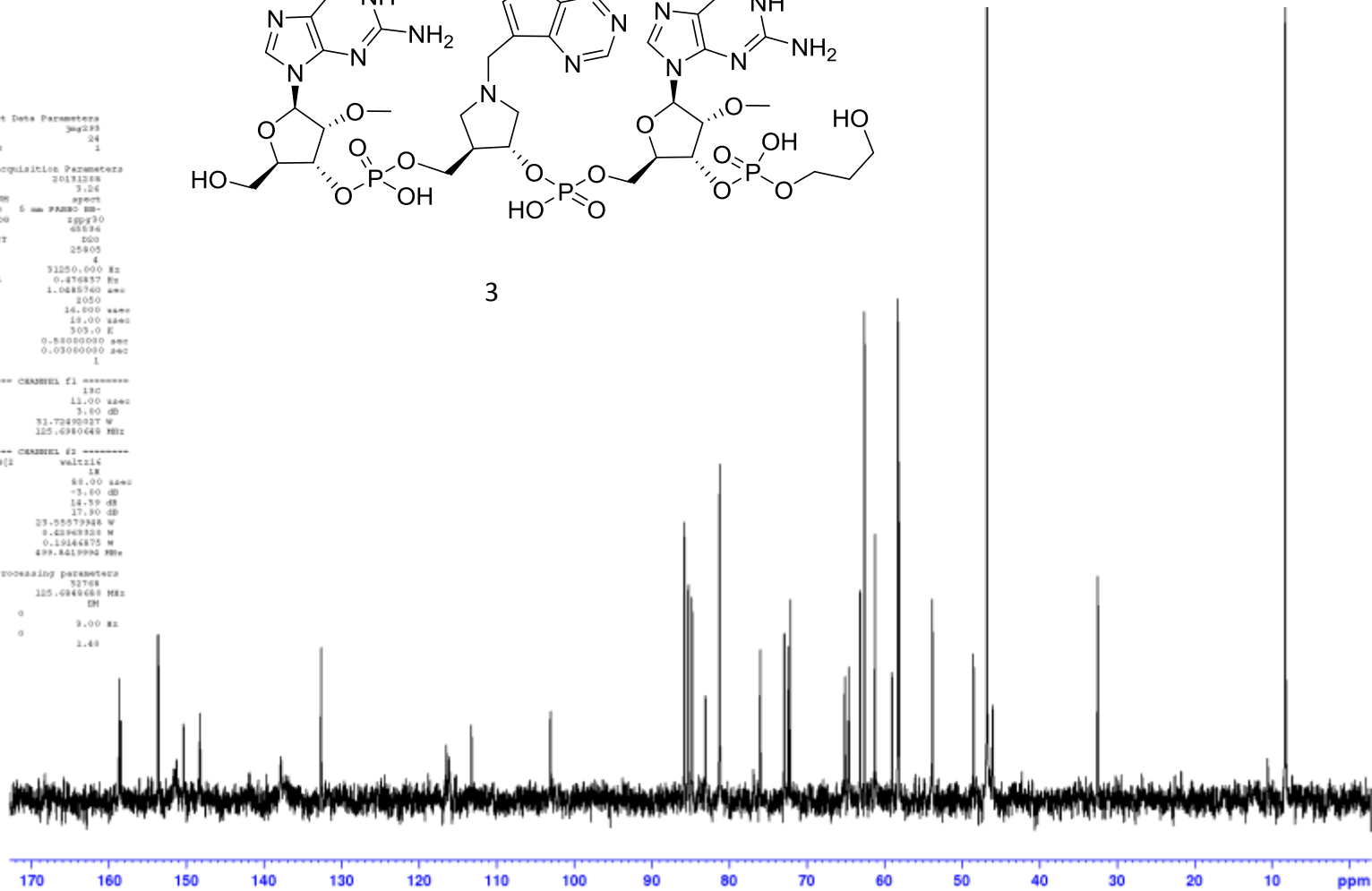
F2 - Acquisition Parameters
Date_     2012128
Time      7:24
INSTRUM   spect
PROBHD    5 mm PABBO MM-
PULPROG   zgpg30
TD         65536
SOLVENT   D2O
NS         25405
DS         4
SWH        31250.000 Hz
FIDRES     0.476837 Hz
AQ         1.0480760 sec
RG         2050
DW         14.600 sec
DE         13.00 sec
TE         303.0 K
D1         0.8800000 sec
D11        0.0300000 sec
TDC        1

===== CHANNEL f1 =====
NUC1       13C
P1         11.00 sec
PL1        3.80 dB
PL1W       33.7249027 W
SFO1       125.094648 MHz

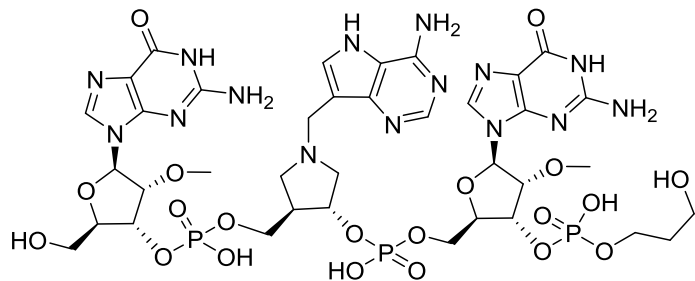
===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      88.00 sec
PL2         -3.80 dB
PL12        14.39 dB
PL13        17.90 dB
PL2W       23.2557994 W
PL12W      2.4286822 W
PL13W      0.19144475 W
SFO2       499.8419996 MHz

F2 - Processing parameters
SI         32768
SF         125.094648 MHz
WDW        EM
SSB         0
LB          3.00 Hz
GB          0
PC          1.48

```



HPLC



3

Data File D:\DATA\2013\DEC042013\20131204A 2013-12-04 09-54-44\JMG293PREP.D

Sample Name: jmg293prep

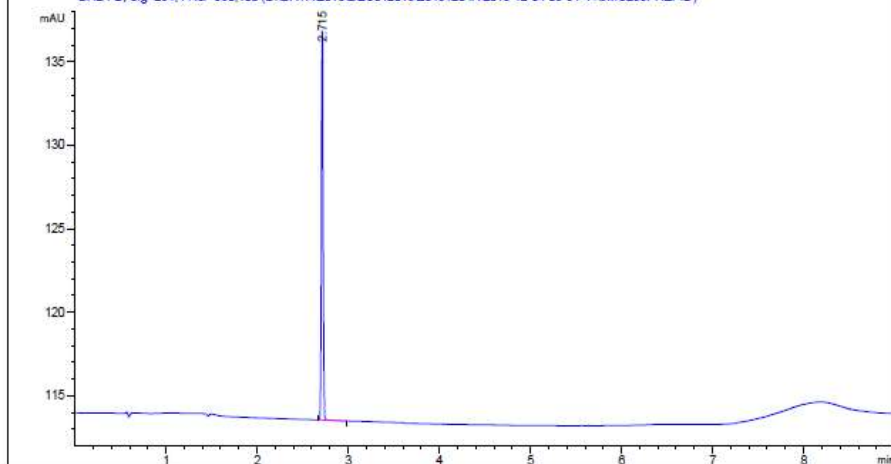
```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : LCMS                       Location  : Vial 72
Injection Date  : 12/4/2013 10:28:45 AM      Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method    : D:\DATA\DEC042013\20131204A 2013-12-04 09-54-44\P1 T9 AW BM FA 5-50M G5H1 .
                9-20.M
Last changed   : 12/4/2013 9:54:44 AM by SYSTEM
Analysis Method: D:\DATA\2013\DEC042013\20131204A 2013-12-04 09-54-44\P1 T9 AW BM FA 5-50M
                G5H1 .9-20.M (Sequence Method)
Last changed   : 5/9/2016 4:45:38 PM by SYSTEM
                (modified after loading)
Method Info    : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-
                5min 5-50%B; T5-6 min 50%B; Flow 0.5 mL/min; m/z 100-1000
    
```

Additional Info : Peak(s) manually integrated

DAD1 B, Sig=254,4 Ref=360,100 (D:\DATA\2013\DEC042013\20131204A 2013-12-04 09-54-44\JMG293PREP.D)



Area Percent Report

```

=====
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.715	BB	0.0222	32.70576	23.58244	100.0000

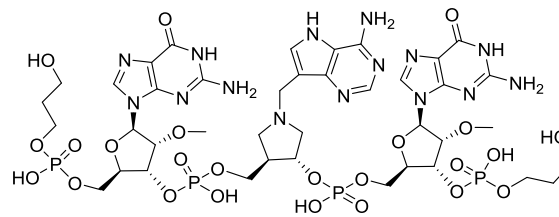
**¹H NMR
500 MHz**

Current Data Parameters
NAME jmg294
EXPNO 10
PROCNO 1

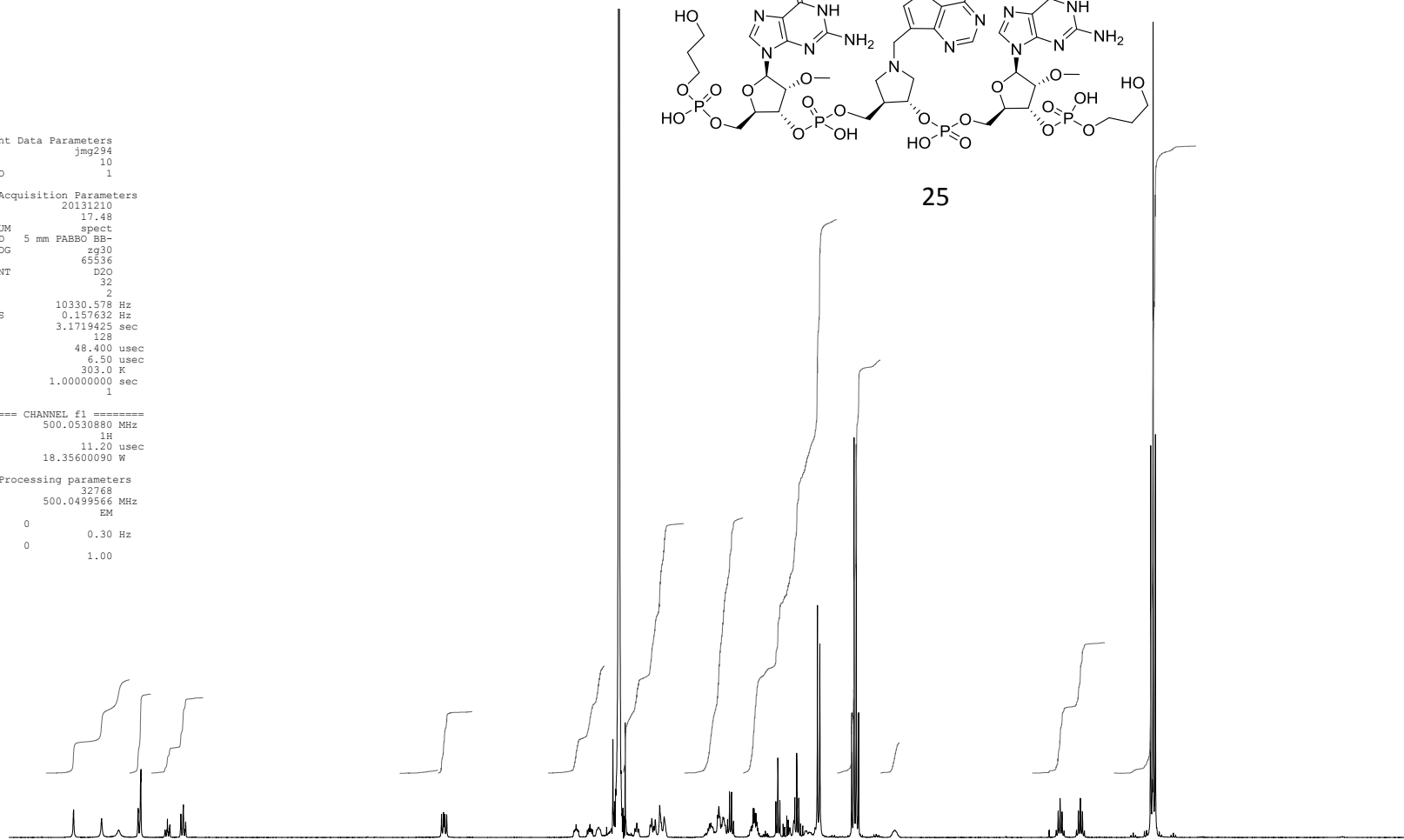
F2 - Acquisition Parameters
Date_ 20131210
Time 17.48
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT d2o
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 128
DW 48.400 usec
DE 6.50 usec
TE 303.0 K
D1 1.0000000 sec
TDO 1

==== CHANNEL f1 =====
SFO1 500.0530880 MHz
NUC1 1H
P1 11.20 usec
PLWL 18.35600090 W

F2 - Processing parameters
SI 32768
SF 500.0499566 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

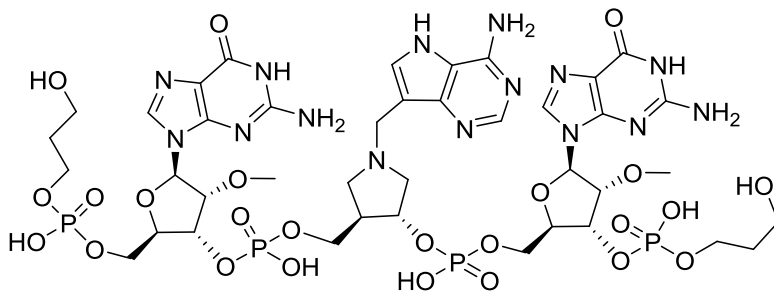


25



Integration values (from left to right): 3.04, 2.57, 2.45, 0.10, 2.00, 3.49, 8.11, 8.30, 18.00, 13.44, 0.99, 4.24, 20.39

¹³C NMR
126 MHz



25

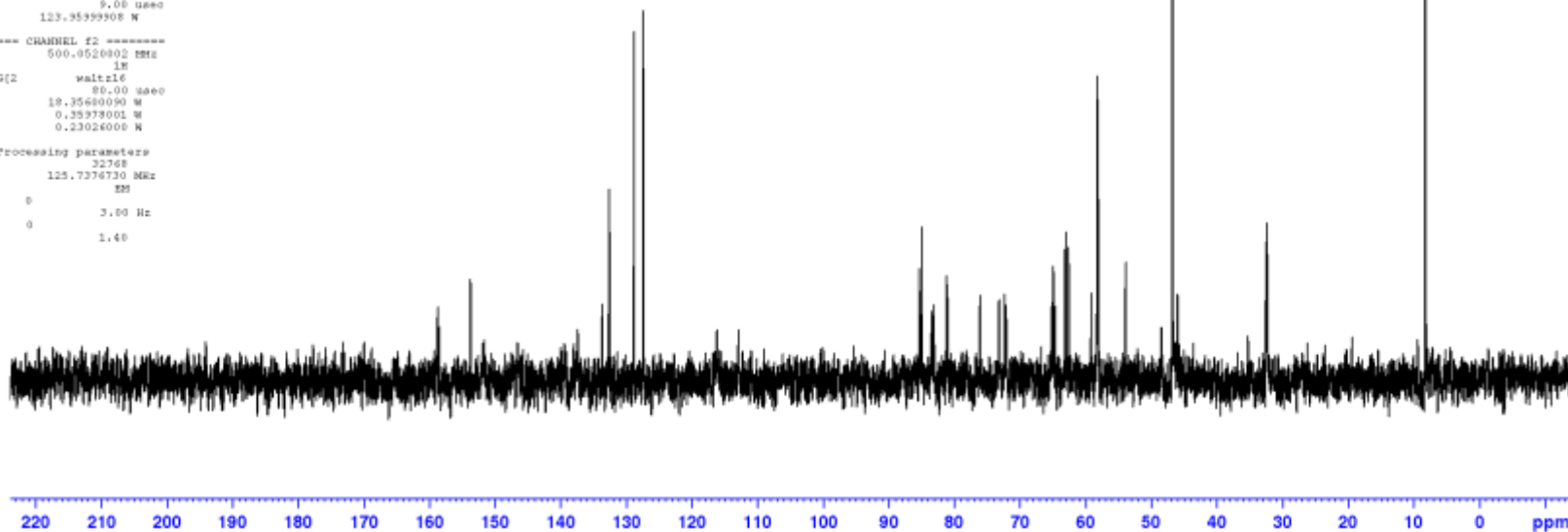
```
Current Data Parameters
NAME          jsg294
EXPNO        11
PROCNO       1

F2 - Acquisition Parameters
Date_        20131210
Time         22.39
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           65536
SOLVENT      D2O
NS           11200
DS           4
SWH           31256.006 MHz
FIDRES       0.4768237 Hz
AQ           1.0485706 sec
RG           71.6
CM           16.008 usec
DE           9.08 usec
TE           303.0 K
D1           0.50000000 sec
D11          0.03000000 sec
TD0          1
```

```
----- CHANNEL f1 -----
SFO1      125.750733 MHz
NUC1       13C
P1         9.06 usec
PLM1      123.9599908 W
```

```
----- CHANNEL f2 -----
SFO2      500.0520002 MHz
NUC2       1H
CPDPRG2    waltz16
PCPD2      80.00 usec
PLM2       18.35600090 W
PLM12      0.39978001 W
PLM13      0.23026006 W
```

```
F2 - Processing parameters
SI         32768
SF         125.7376730 MHz
NUM        830
SFB        0
LB         3.00 Hz
GB         0
PC         1.40
```



³¹P NMR
202 MHz

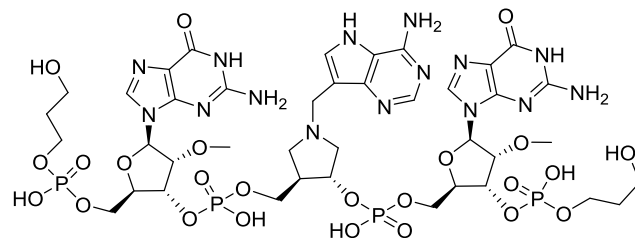
Current Data Parameters
NAME 39294
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20131211
Time 6.02
INSTRUM spect
PROBHD 5 mm PARBO BR-
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 128
DS 4
SWH 81521.742 Hz
FIDRES 0.421962 MHz
AQ 0.8034083 sec
RG 2050
DN 6.132 0000
DE 6.50 0000
TE 303.0 K
D1 2.08000000 sec
D11 0.93000000 sec
TD0 1

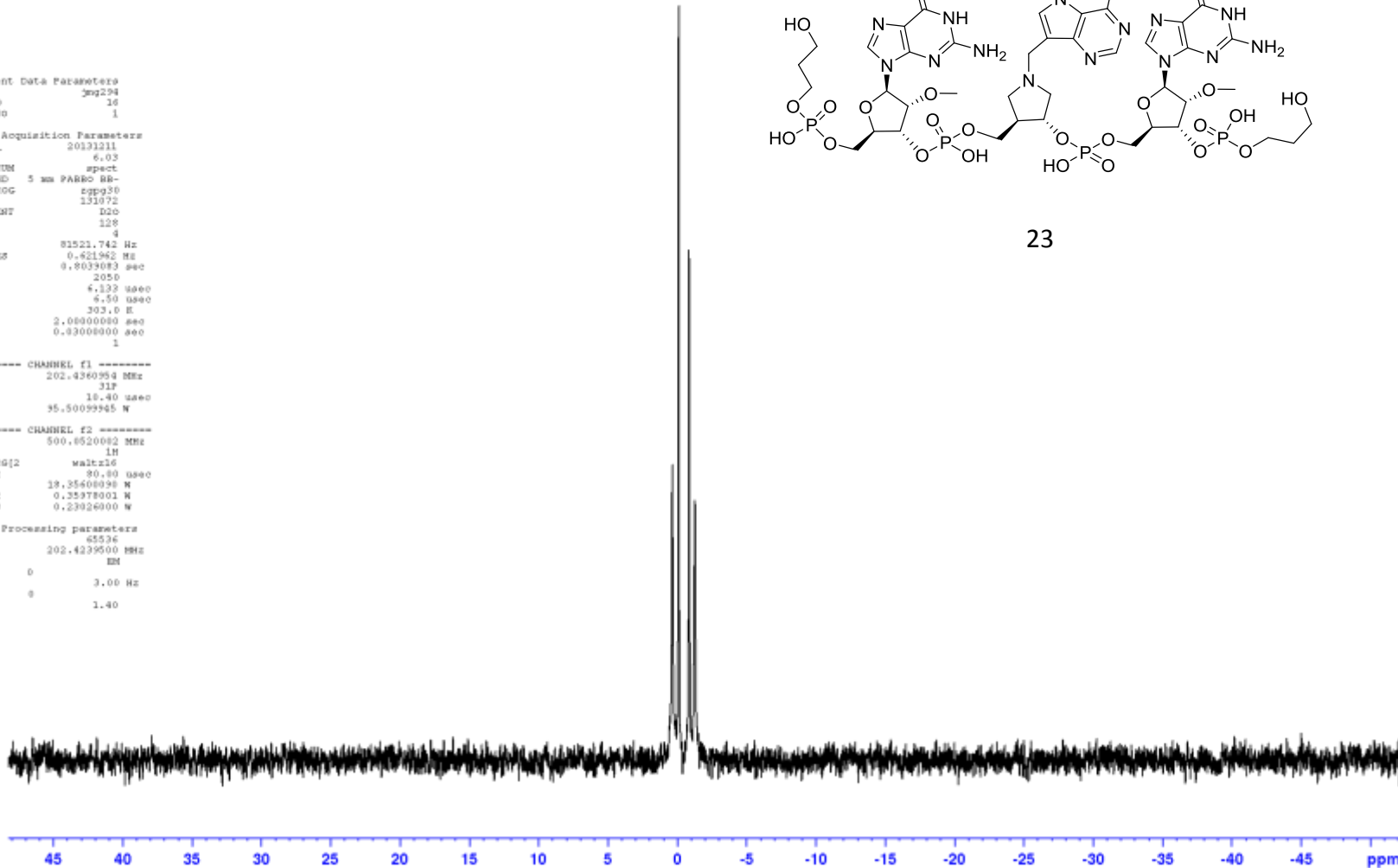
----- CHANNEL f1 -----
SFO1 202.4360954 MHz
NUC1 31P
P1 18.40 usec
PLM1 35.50099945 W

----- CHANNEL f2 -----
SFO2 500.8520082 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 30.80 0000
P1M2 18.35400098 W
PLM2 0.35378001 W
PLM3 0.23926000 W

F2 - Processing parameters
SI 65536
SF 202.4239500 MHz
NUM 8
SR 0
LA 3.00 Hz
GB 0
PC 1.40



23

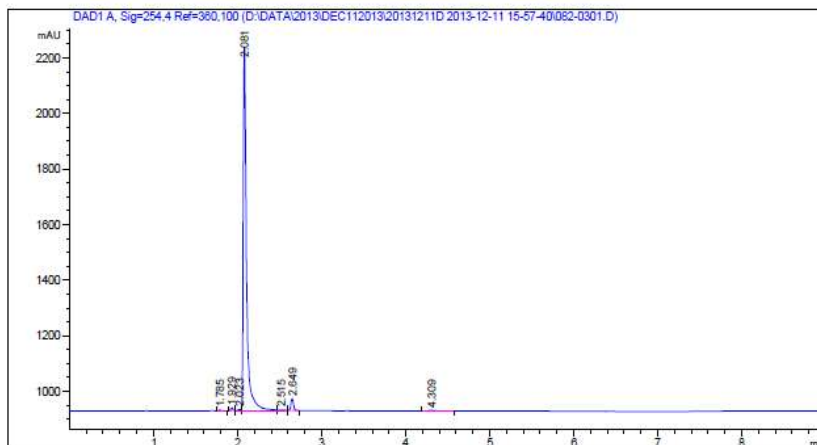


HPLC

Data File D:\DATA\2013\DEC112013\20131211D 2013-12-11 15-57-40\082-0301.D
 Sample Name: jmg294

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : LCMS                      Location  : Vial 82
Injection Date  : 12/11/2013 4:15:40 PM      Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method    : D:\DATA\DEC112013\20131211D 2013-12-11 15-57-40\P1 T9 AW BM FA 5-100M G5H1
                                           3-25.M
Last changed   : 12/11/2013 3:57:41 PM by SYSTEM
Analysis Method: D:\DATA\2013\DEC112013\20131211D 2013-12-11 15-57-40\P1 T9 AW BM FA 5-100M
                                           G5H1 3-25.M (Sequence Method)
Last changed   : 12/11/2013 3:57:41 PM by SYSTEM
Method Info    : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-
                                           5min 5-100%B; T5-6min 100%B; Flow 0.5 mL/min; m/z 300-2000
  
```



Area Percent Report

```

Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

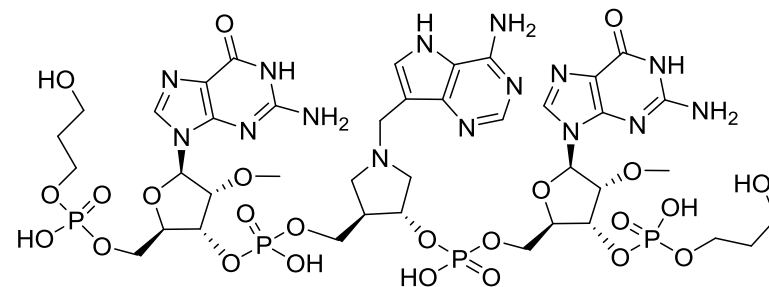
Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.785	VB	0.0305	6.36841	3.15561	0.1752
2	1.929	BB	0.0279	18.13001	10.13969	0.4989
3	2.023	BV	0.0301	7.25558	3.65786	0.1997
4	2.081	VV	0.0390	3496.35181	1316.00757	96.2138

Data File D:\DATA\2013\DEC112013\20131211D 2013-12-11 15-57-40\082-0301.D
 Sample Name: jmg294

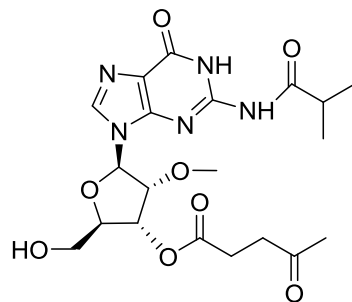
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
5	2.515	VB	0.0726	6.35399	1.22306	0.1749
6	2.649	BB	0.0320	87.24861	42.48875	2.4009
7	4.309	BB	0.0700	12.23151	2.54762	0.3366

Totals : 3633.93992 1379.22015



25

¹H NMR
500 MHz



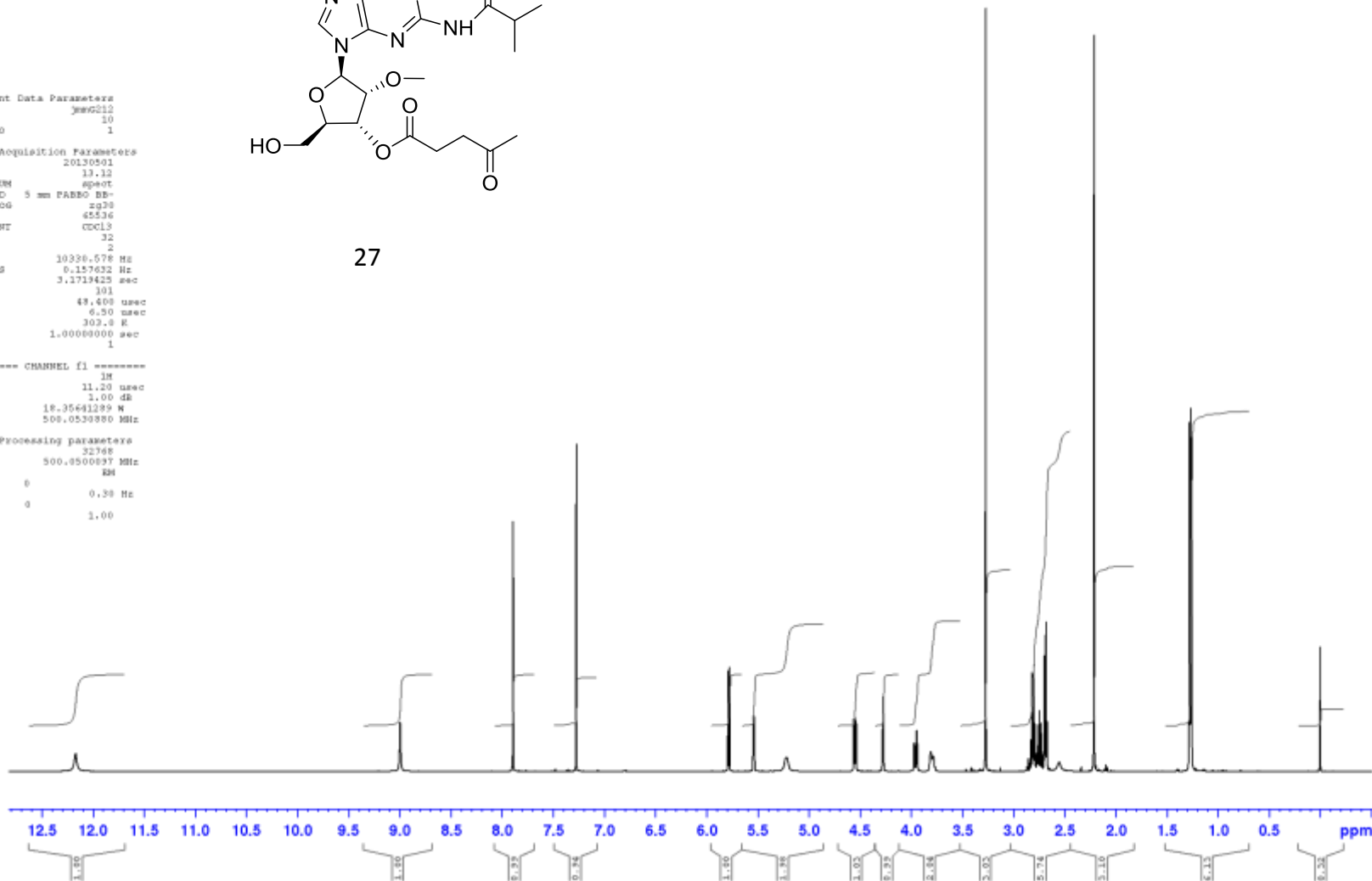
27

Current Data Parameters
NAME JMWG212
EXPNO 10
PROCNO 1

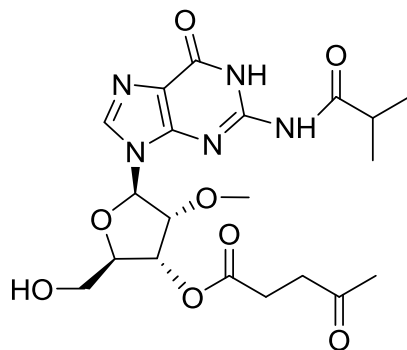
F2 - Acquisition Parameters
Date_ 20130501
Time 13.32
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 301
DM 49.400 usec
DE 6.50 usec
TE 302.9 K
DL 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
P11 1.00 dB
F1IN 16.35641289 MHz
SF01 500.0530880 MHz

F2 - Processing parameters
S2 32768
SF 500.0500937 MHz
WDW EM
SSB 0
LB 0.39 Hz
GB 0
EC 1.00



¹³C NMR
126 MHz



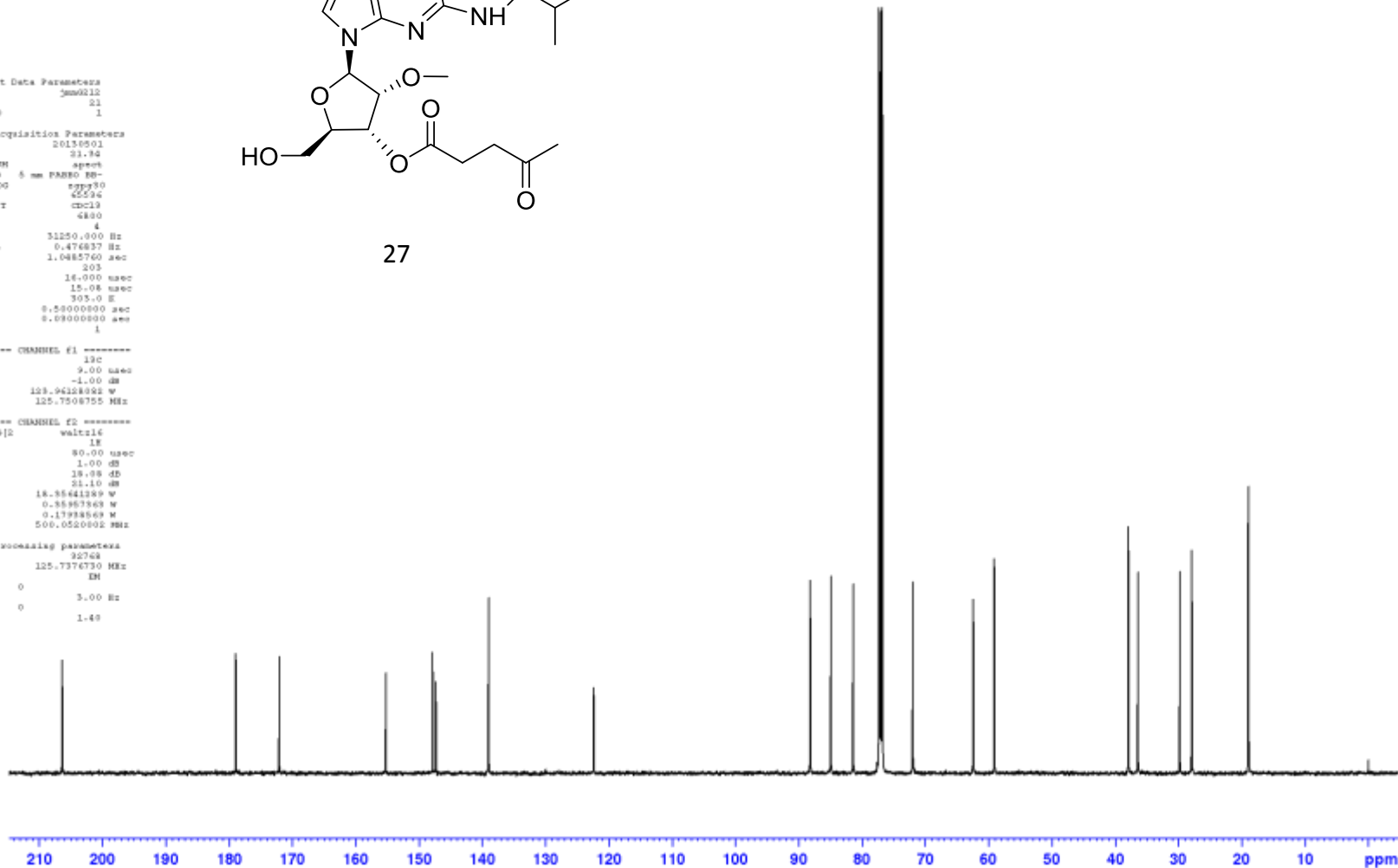
27

Current Data Parameters
NAME jmm0212
EXPNO 21
PROCNO 1
F2 - Acquisition Parameters
Date_ 20130501
Time 21:34
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT cpd13
NS 4
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 203
DW 16.000 usec
DE 15.08 usec
TE 305.0 K
D3 8.59000000 sec
D11 8.09000000 sec
TEO 1

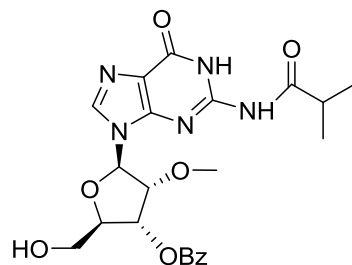
----- CHANNEL f1 -----
NUC1 13C
P1 9.00 usec
PL1 -1.00 dB
P1LW 125.9428884 W
SFO1 125.7508755 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
P12 1.00 dB
P1L2 19.98 dB
P1L3 21.10 dB
P2M 18.95441289 W
P1L3M 0.35967363 W
P1L3W 0.17983689 W
SFO2 500.0520002 MHz

F2 - Processing parameters
SI 32768
SF 125.7376730 MHz
MCM 3H
ASB 0
LB 3.00 Hz
GB 0
PC 1.49



¹H NMR
500 MHz



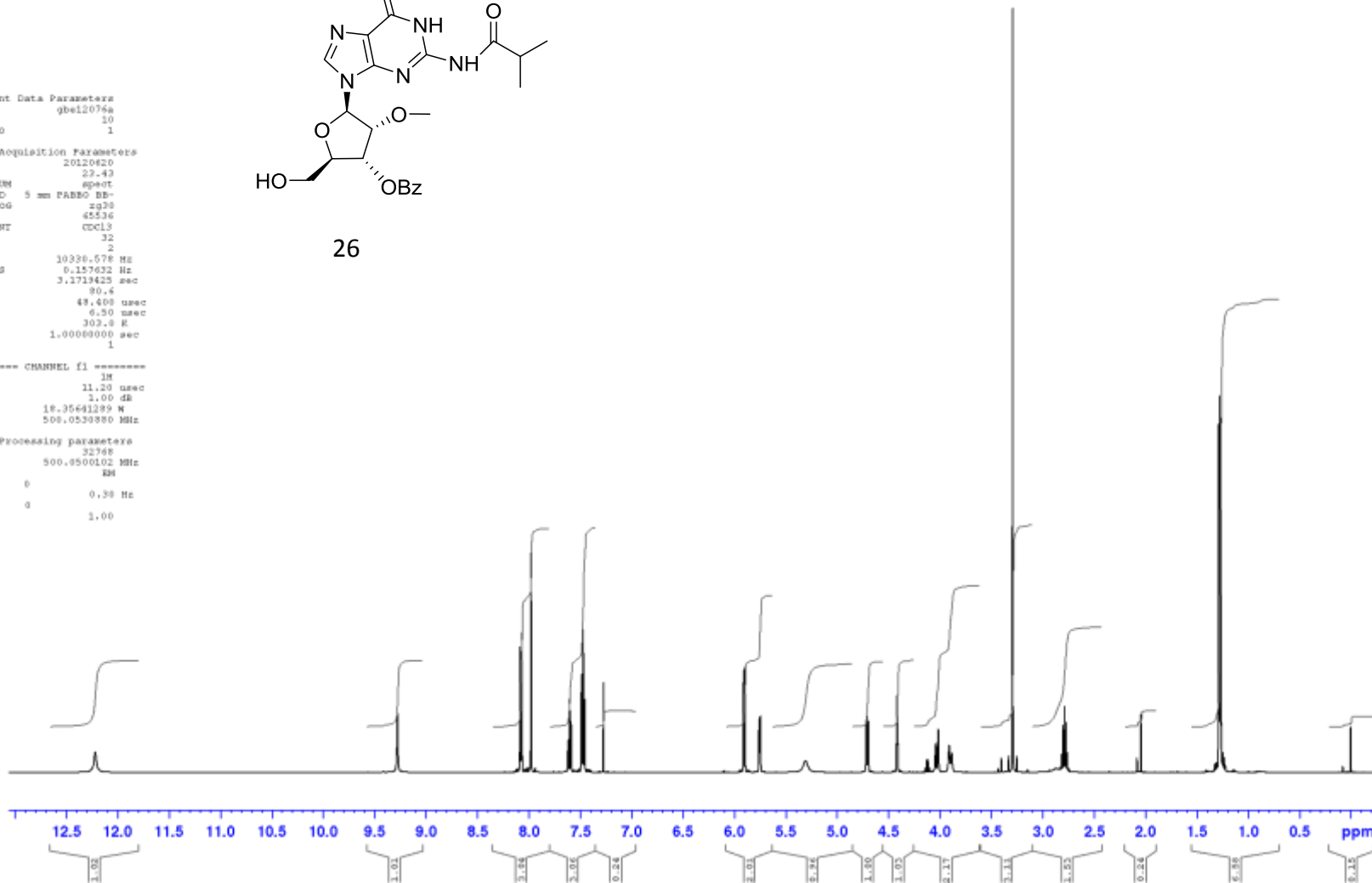
26

Current Data Parameters
NAME gbel2074a
EXPNO 10
PROCNO 1

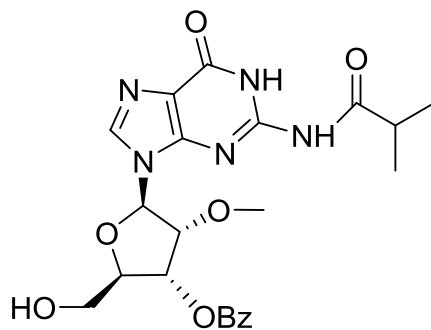
F2 - Acquisition Parameters
Date_ 20120420
Time 22.43
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 80.4
DM 48.408 usec
DE 6.50 usec
TE 302.8 K
DL 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
P11 1.00 dB
F1IN 18.35641289 MHz
SF01 500.0539880 MHz

F2 - Processing parameters
S2 32768
SF 500.0500102 MHz
WDW EM
SSB 0
LB 0.39 Hz
GB 0
FC 1.00



¹³C NMR
126 MHz



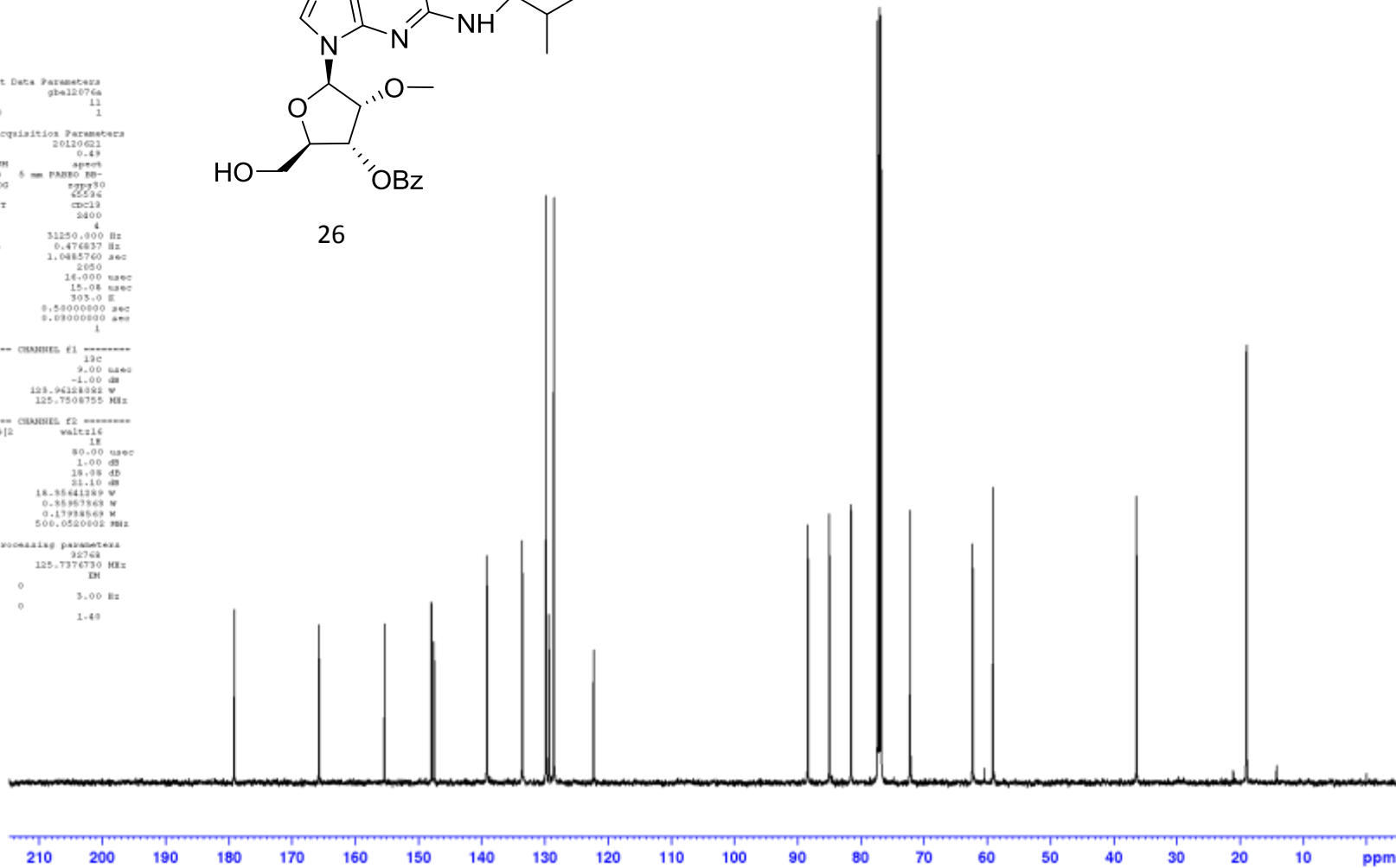
26

Current Data Parameters
NAME gbal2076a
EXPNO 11
PROCNO 1
F2 - Acquisition Parameters
Date_ 20120621
Time 0.48
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT cpd13
NS 2400
DS 4
SWH 31250.000 Hz
FIDRES 0.476837 Hz
AQ 1.0485760 sec
RG 2050
DW 18.000 usec
DE 15.08 usec
TE 303.0 K
D3 8.59000000 sec
D11 8.09000000 sec
TEO 1

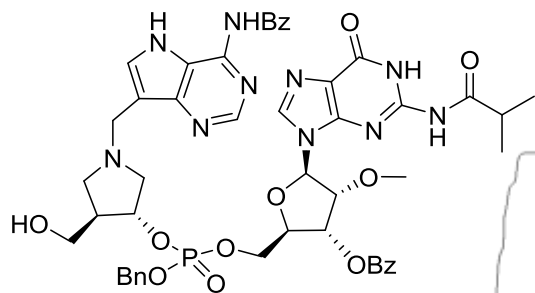
----- CHANNEL F1 -----
NUC1 13C
P1 9.00 usec
P11 -1.00 dB
P1M 123.9428884 W
SFO1 125.7508755 MHz

----- CHANNEL F2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
P12 1.00 dB
P112 19.98 dB
P113 21.10 dB
P12M 18.95441289 W
P112M 0.35967363 W
P113M 0.17983669 W
SFO2 500.0520002 MHz

F2 - Processing parameters
SI 32768
SF 125.7376730 MHz
MCW 1H
SAB 0
LB 3.00 Hz
GB 0
PC 1.49



¹H NMR
500 MHz



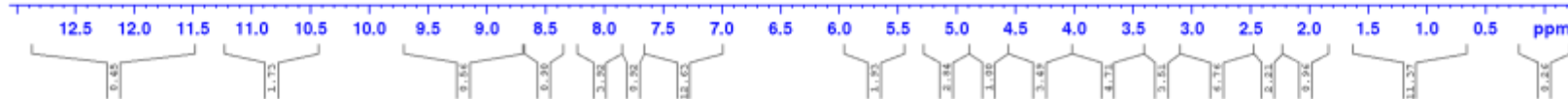
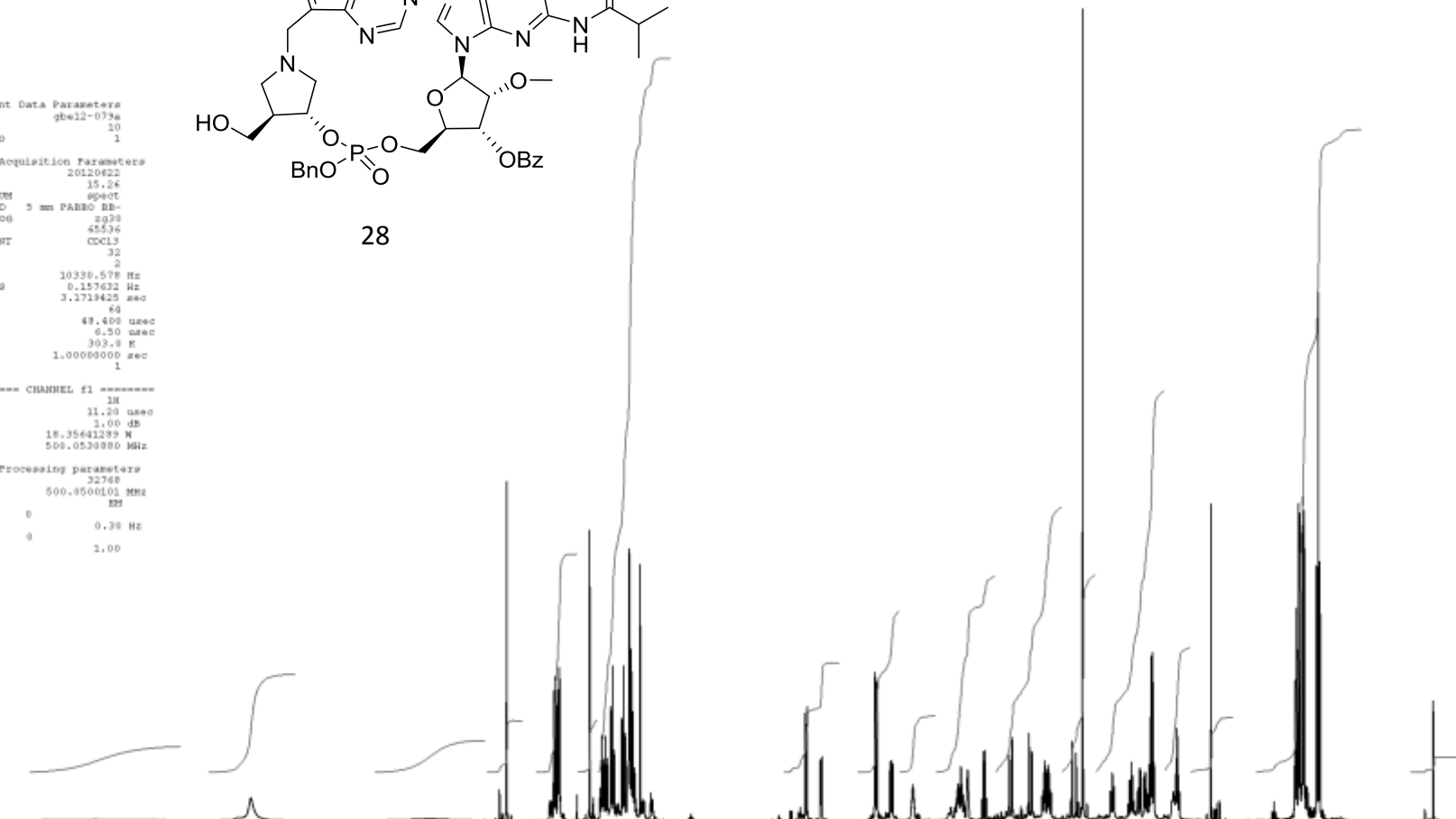
28

Current Data Parameters
NAME gbel2-073a
EXPNO 10
PROCNO 1

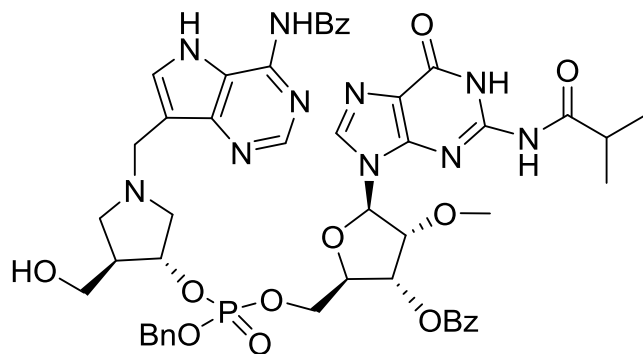
F2 - Acquisition Parameters
Date_ 20120422
Time 15:24
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT ccd13
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 64
CW 49.409 usec
DE 6.50 usec
TE 303.4 K
D1 1.0000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
PL1W 18.35641289 W
RFOL 500.0530800 MHz

F2 - Processing parameters
SI 32768
SF 500.0500101 MHz
NMW MHz
SSB 0
LA 0.39 Hz
GB 0
PC 1.00



**¹³C NMR
126 MHz**



28

```

Current Data Parameters
NAME          sbell-079a
EXPNO         21
PROCNO        1

F2 - Acquisition Parameters
Date_         20120622
Time          22:22
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       cpd13
NS            2400
DS            4
SWH           31250.000 Hz
FIDRES       0.476837 Hz
AQ           1.0485760 sec
RG           2050
DW           18.000 usec
DE           15.08 usec
TE           305.0 K
D3           8.59000000 sec
D11          8.09000000 sec
TEO          1
  
```

```

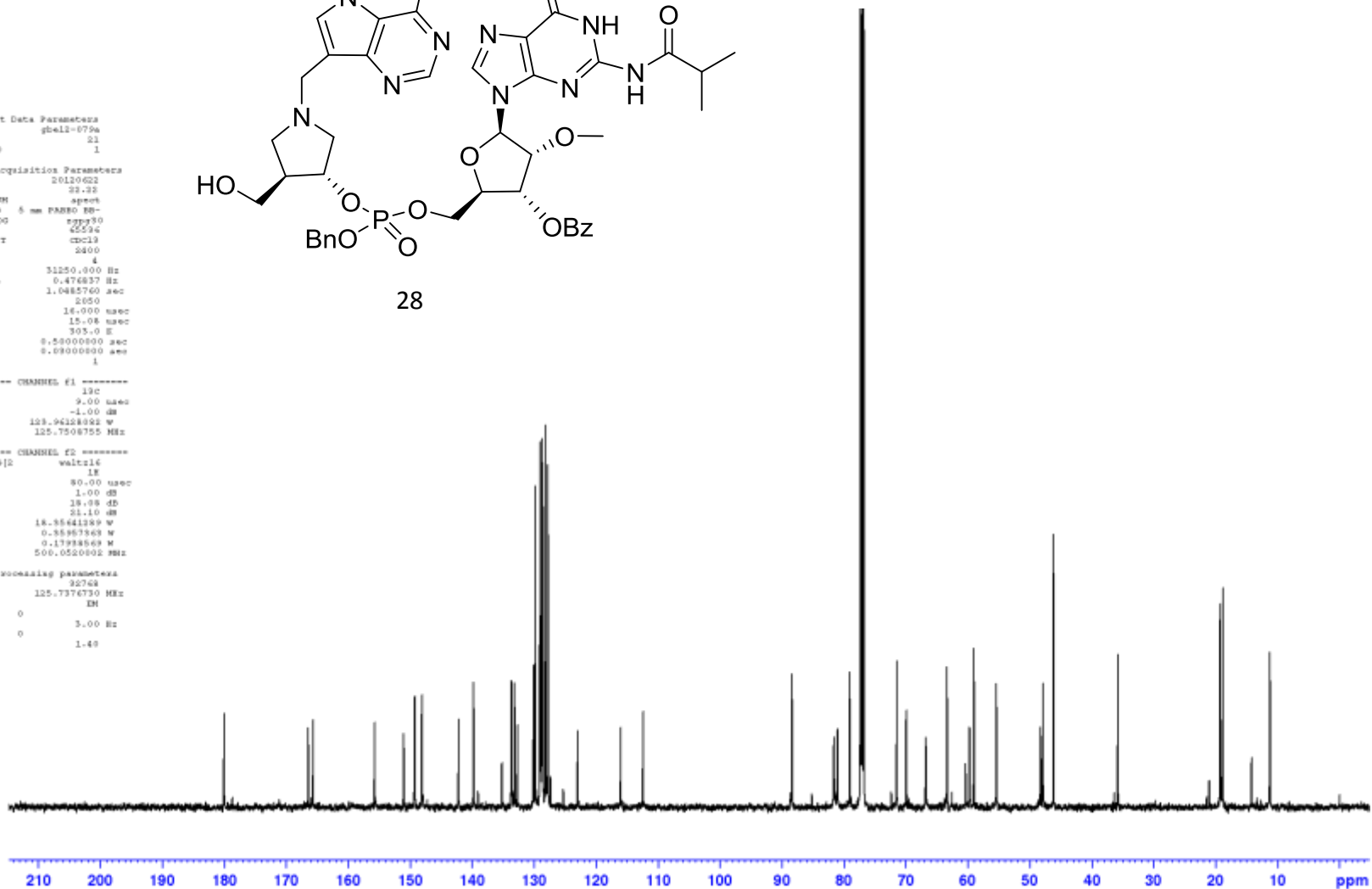
----- CHANNEL F1 -----
NUC1          13C
P1            9.00 usec
P11           -1.00 dB
P1LW         125.9428884 W
SFO1         125.7508755 MHz
  
```

```

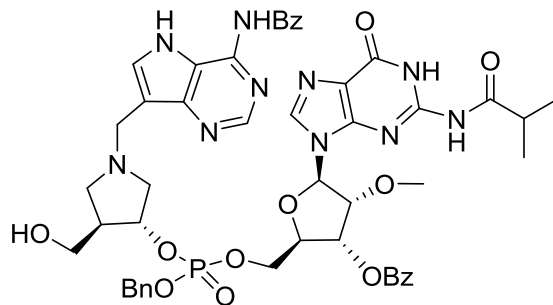
===== CHANNEL F2 =====
CPOPRG2       waltz16
NUC2           1H
PCPD2         80.00 usec
P12           1.00 dB
P1L2         19.98 dB
P1L3         21.10 dB
P13W         18.95441289 W
P1L3W         0.35967363 W
P1L3W         0.17983669 W
SFO2         500.0520002 MHz
  
```

```

F2 - Processing parameters
SI            32768
SF           125.7376730 MHz
MCM           EM
ASB           0
LB            3.00 Hz
GB            0
PC            1.49
  
```



**³¹P NMR
202 MHz**



28

```

Current Data Parameters
NAME          g8412-079a
EXPNO        11
PROCNO       1

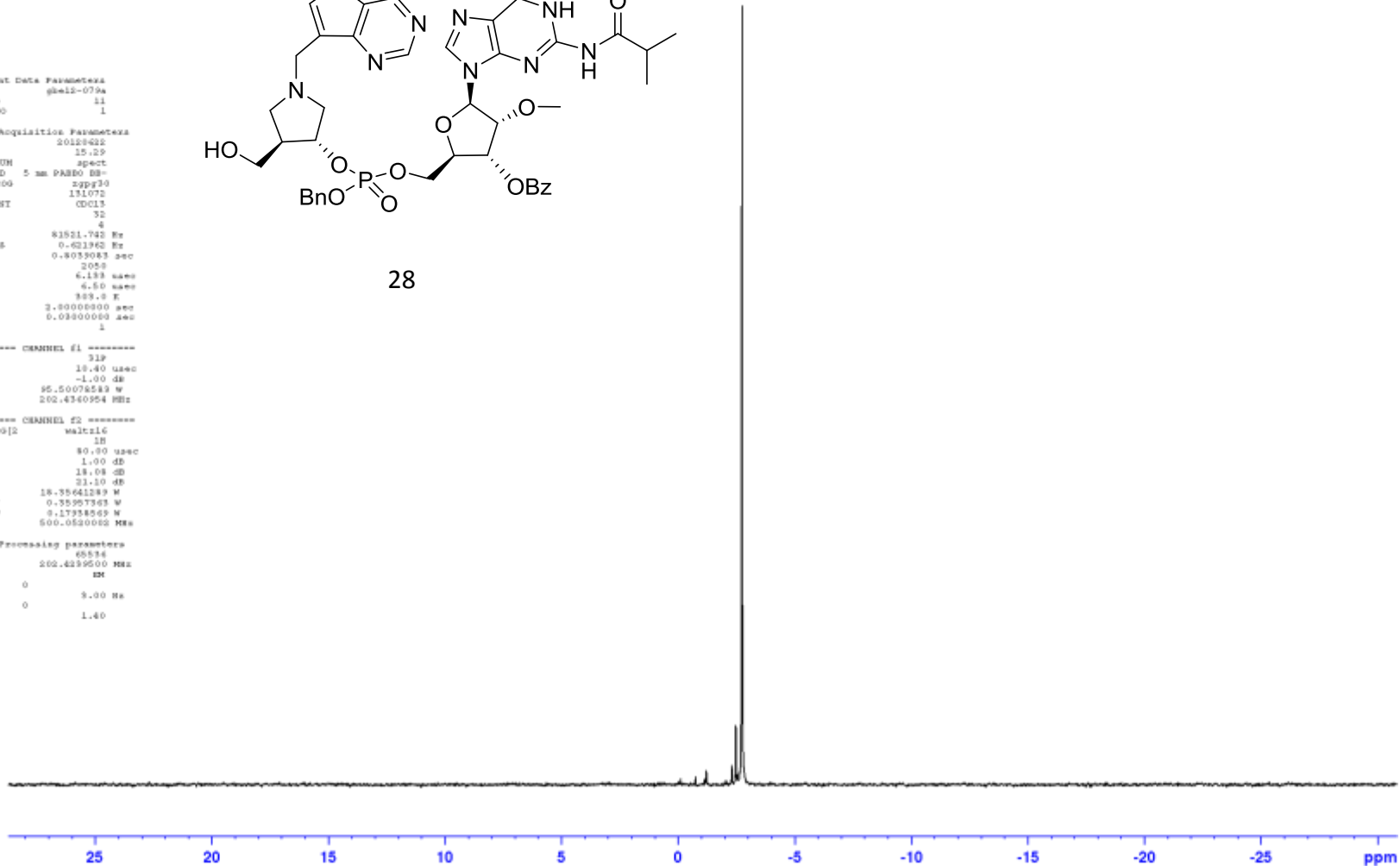
F2 - Acquisition Parameters
Date_        20120422
Time         15:29
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           131072
SOLVENT      CDCl3
NUC1         31P
DS           4
SWH          81521.742 Hz
FIDRES      0.621962 Hz
AQ          0.8039083 sec
RG          2058
DW          6.123 usec
DE          6.50 usec
TE          299.2 K
D1          3.0000000 sec
d11         0.03000000 sec
TE0         1

----- CHANNEL f1 -----
NUC1        31P
P1          18.40 usec
P11         -1.00 dB
P1LM       55.50078523 W
SFO1       202.4340954 MHz

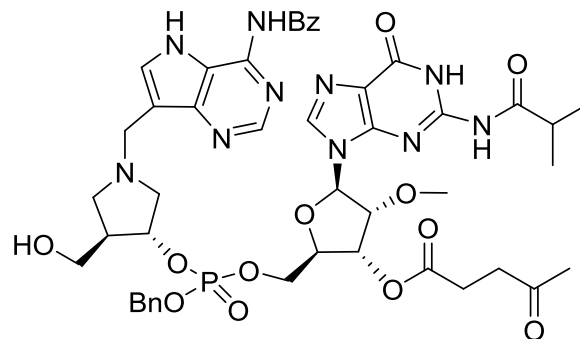
----- CHANNEL f2 -----
CPDPRG2    mltiplc
NUC2        1H
PCPD2      80.80 usec
P12         1.00 dB
P112       19.08 dB
P113       21.10 dB
P12M       18.35641289 W
P112M      0.35907363 W
P113M      0.17948569 W
SFO2       500.0520082 MHz

F2 - Processing parameters
SI          65536
SF          202.4239500 MHz
NCM         324
ZSN         0
IN          3.00 Hz
GB          0
PC          1.40

```



¹³C NMR
126 MHz



29

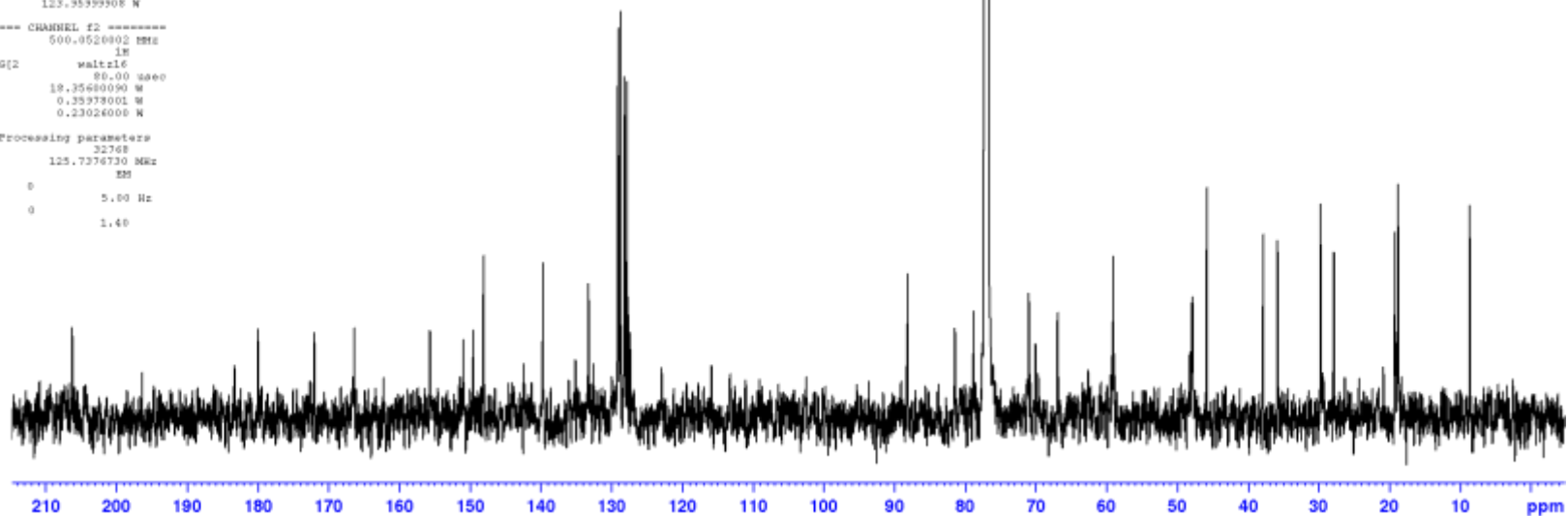
Current Data Parameters
NAME Jmg299
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20131216
Time 18.08
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT cdcl3
NS 2400
DS 4
SWH 31256.006 MHz
FIDRES 6.476927 Hz
AQ 1.0485766 sec
RG 71.4
DM 16.006 usec
DE 9.08 usec
TE 303.0 K
D1 0.50000000 sec
D11 0.03000000 sec
TD0 1

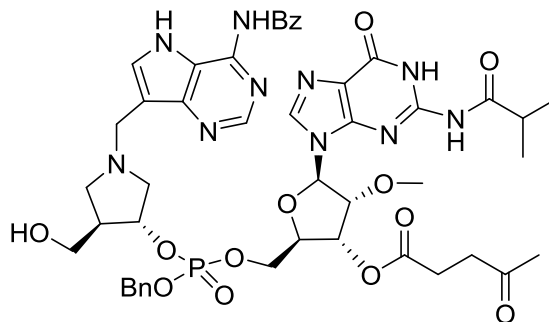
----- CHANNEL f1 -----
SFO1 125.750733 MHz
NUC1 13C
P1 9.06 usec
PL1 123.9599908 W

----- CHANNEL f2 -----
SFO2 500.9526902 MHz
NUC2 1H
CPCPRG2 waltz16
PCPG2 80.00 usec
PLM2 18.35600090 W
PLM12 0.39978001 W
PLM13 0.23026006 W

F2 - Processing parameters
SI 32768
SF 125.7376730 MHz
NUM 830
SFR 0
LB 5.00 Hz
GB 0
PC 1.40



³¹P NMR
202 MHz



29

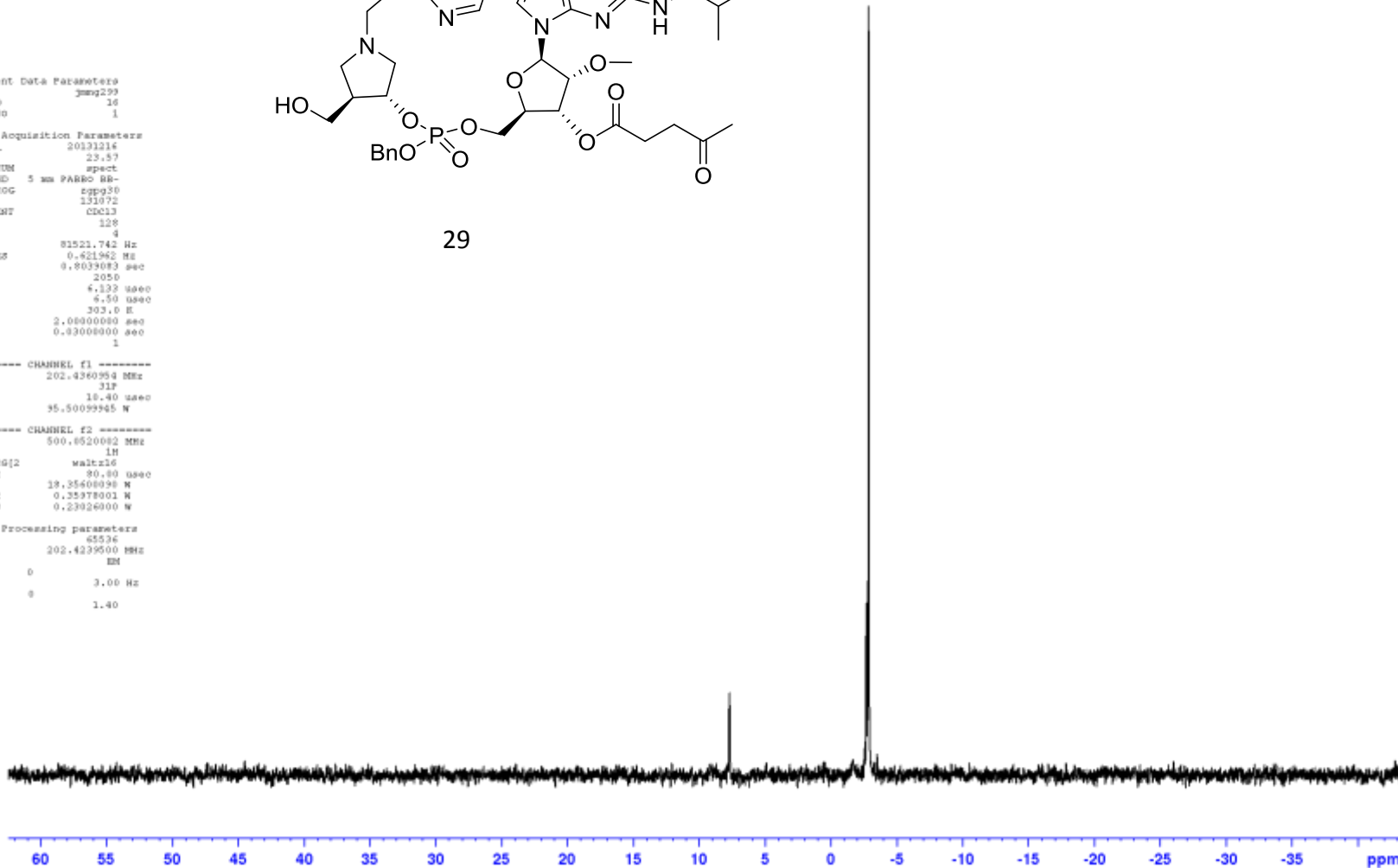
CURRENT DATA PARAMETERS
NAME Jmg299
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20131216
Time 23:57
INSTRUM spect
PROBHD 5 mm PARBO BR-
PULPROG zgpg30
TD 131072
SOLVENT cdcl3
NS 128
DS 4
SWH 81521.742 Hz
FIDRES 0.421962 Hz
AQ 0.8034083 sec
RG 2050
SN 6.132 0000
DE 6.50 0000
TE 303.0 K
D1 2.08000000 sec
D11 0.03000000 sec
TD0 1

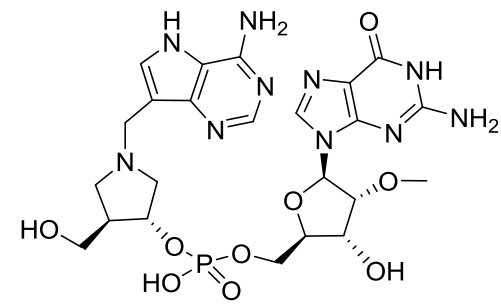
----- CHANNEL f1 -----
SFO1 202.4360954 MHz
NUC1 31P
P1 18.40 usec
PL1 35.50099945 W

----- CHANNEL f2 -----
SFO2 500.852082 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 30.00 0000
PLM2 18.35608098 W
PLM12 0.35378001 W
PLM13 0.23926000 W

F2 - Processing parameters
SI 65536
SF 202.4239500 MHz
NUC EM
SR 0
LA 3.00 Hz
GB 0
PC 1.40



**¹H NMR
500 MHz**



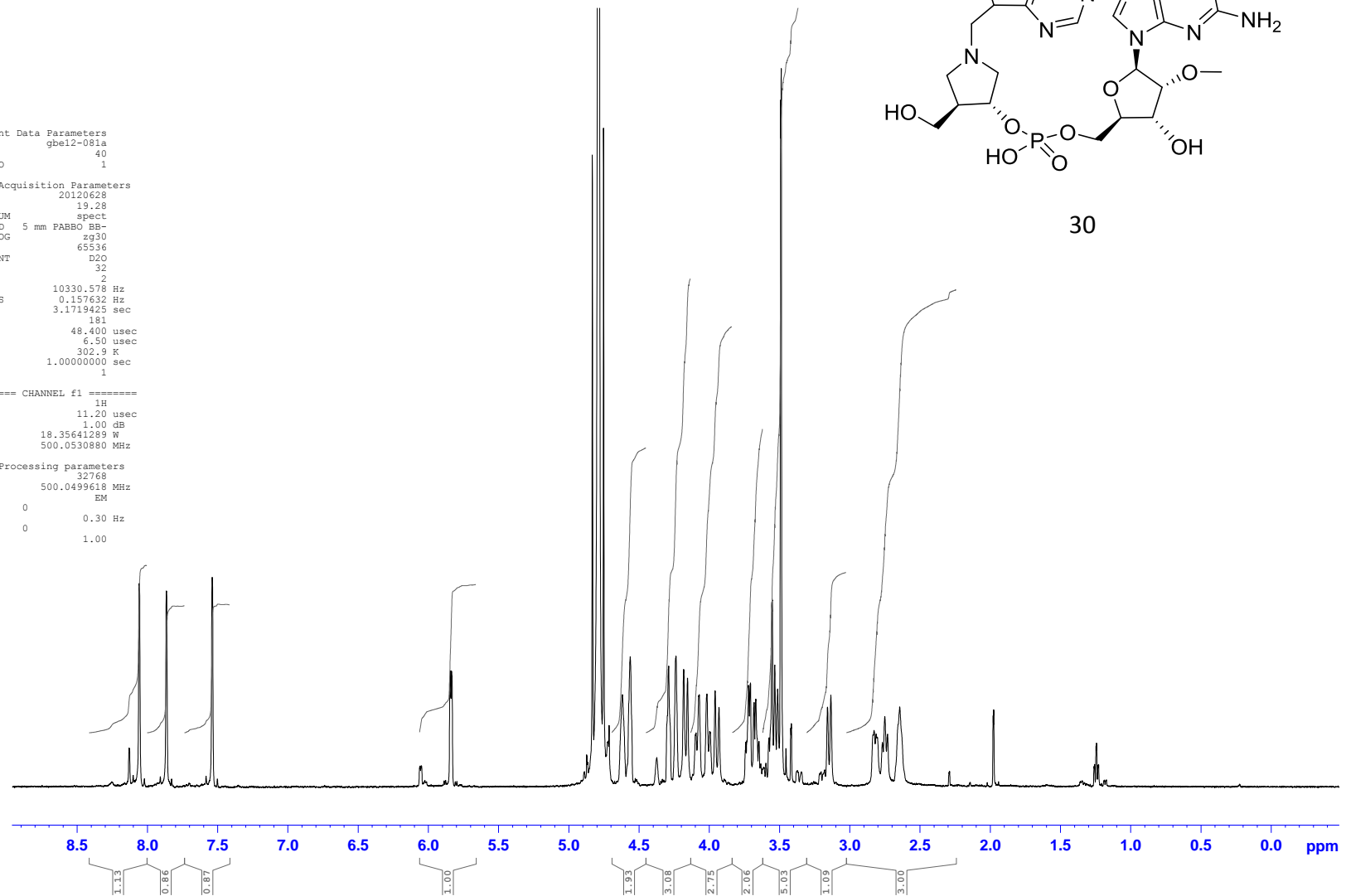
30

Current Data Parameters
NAME gbel2-081a
EXPNO 40
PROCNO 1

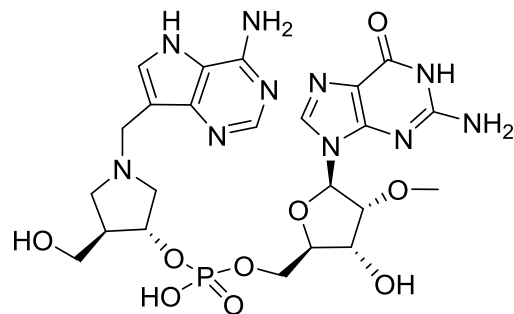
F2 - Acquisition Parameters
Date_ 20120628
Time_ 19.28
INSTRUM spect
PROBHD 5 mm FAPBO BS-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 181
DW 48.400 usec
DE 6.50 usec
TE 302.9 K
D1 1.0000000 sec
TDO 1

==== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
PLLW 18.35641289 W
SFO1 500.0530880 MHz

F2 - Processing parameters
SI 32768
SF 500.0499618 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz



30

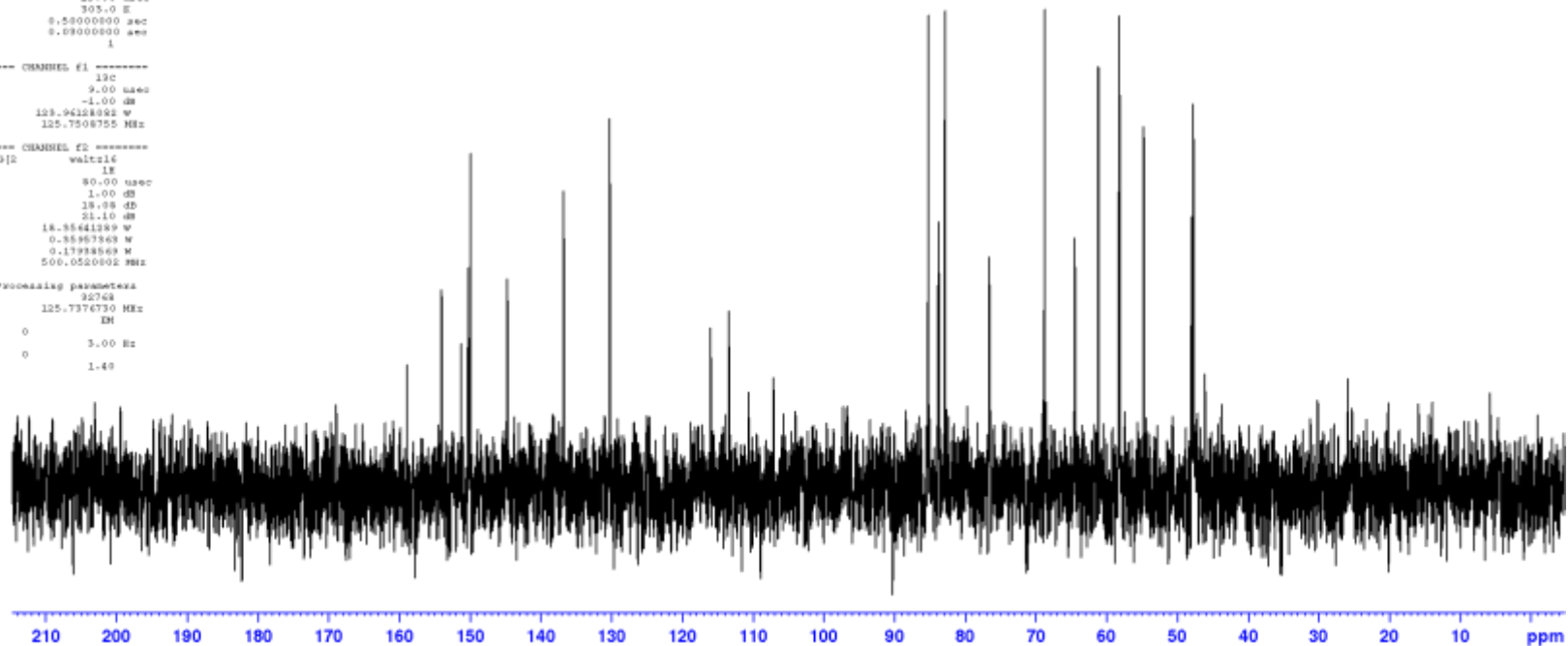
```
Current Data Parameters
NAME          gb411-001a
EXPNO         41
PROCNO        1

F2 - Acquisition Parameters
Date_         20120628
Time          21:39
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       D2O
NS            4880
DS            4
SWH           31250.000 Hz
FIDRES       0.476837 Hz
AQ           1.0485760 sec
RG           2050
DW           18.000 usec
DE           15.08 usec
TE           305.0 K
D3           8.58000000 sec
D11          8.09000000 sec
TEO          1

----- CHANNEL f1 -----
NUC1          13C
P1            9.00 usec
P11           -1.00 dB
P11M         128.9428884 W
SFO1         125.7506755 MHz

***** CHANNEL f2 *****
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 usec
P12           1.00 dB
P112         19.98 dB
P113         21.10 dB
P12M         18.95441289 W
P112M        0.35867363 W
P113M        0.17983669 W
SFO2         500.0520002 MHz

F2 - Processing parameters
SI            32768
SF           125.7376730 MHz
MCW          EM
ASB          0
LB           3.00 Hz
GB          0
PC           1.49
```



**³¹P NMR
202 MHz**

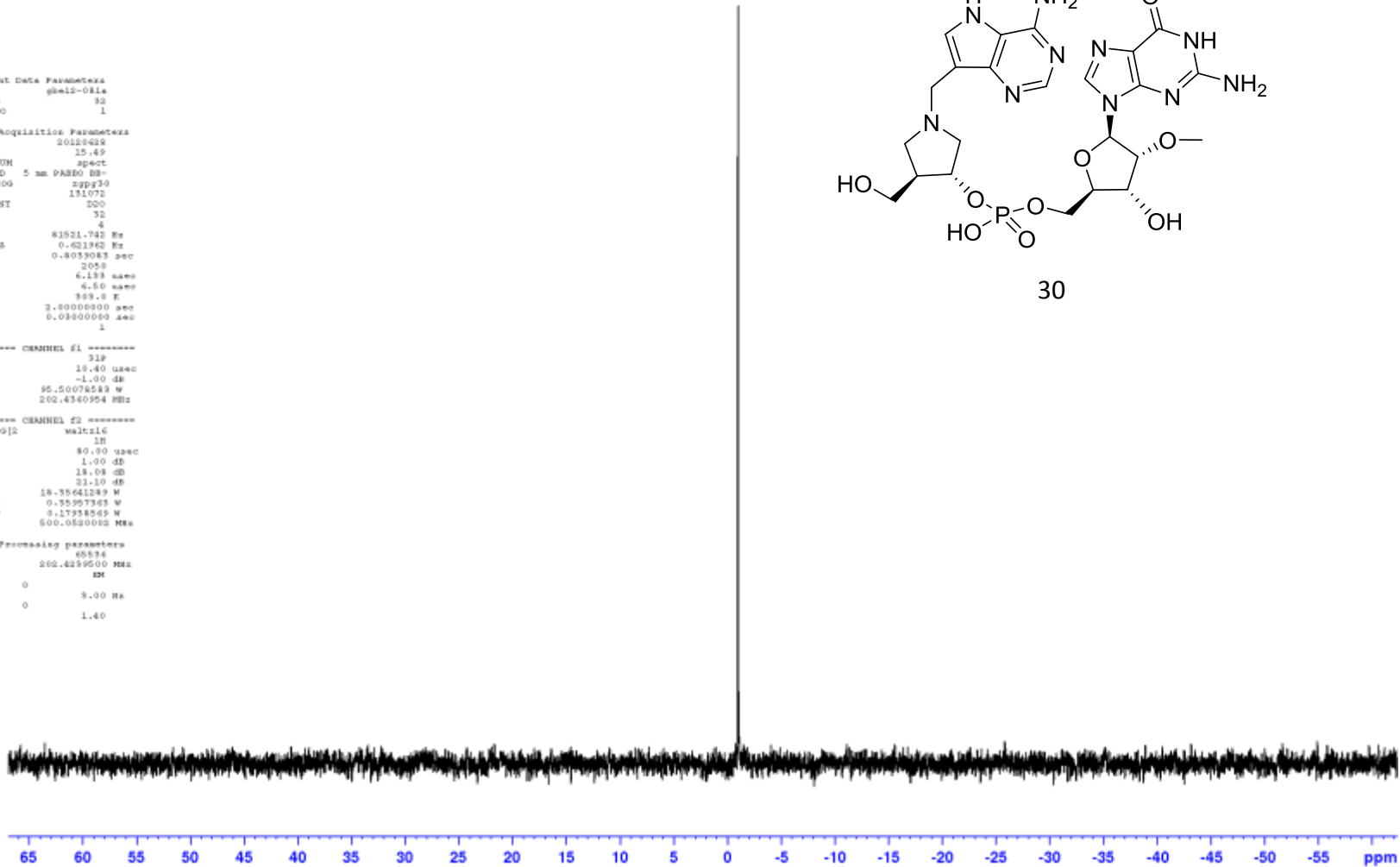
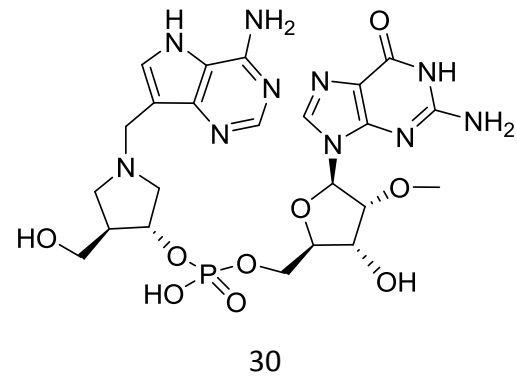
```
Current Data Parameters
NAME      gbl12-011a
EXPNO     32
PROCNO    1

F2 - Acquisition Parameters
Date_     20120428
Time      15:49
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        131072
SOLVENT   D2O
HG        32
DS        4
SWH       81921.742 Hz
FIDRES    0.621962 Hz
AQ        0.8039083 sec
RG        2058
DW        6.123 usec
DE        6.50 usec
TE        300.2 K
D1        3.0000000 sec
d11       0.03000000 sec
TE0       1

===== CHANNEL f1 =====
NUC1      31P
P1        18.40 usec
P11       -1.00 dB
P1LM      55.50078523 W
SFO1      202.4340954 MHz

===== CHANNEL f2 =====
CHOPPRG2  mlticlic
NUC2      1H
PCPD2     80.00 usec
P12       1.00 dB
P112      19.08 dB
P113      21.10 dB
P12M      18.35641289 W
P112M     0.35907363 W
P113M     0.17384569 W
SFO2      500.0520082 MHz

F2 - Processing parameters
SI        65536
SF        202.4239500 MHz
NCM       324
ZSN       0
LB        3.00 Hz
GB        0
PC        1.40
```



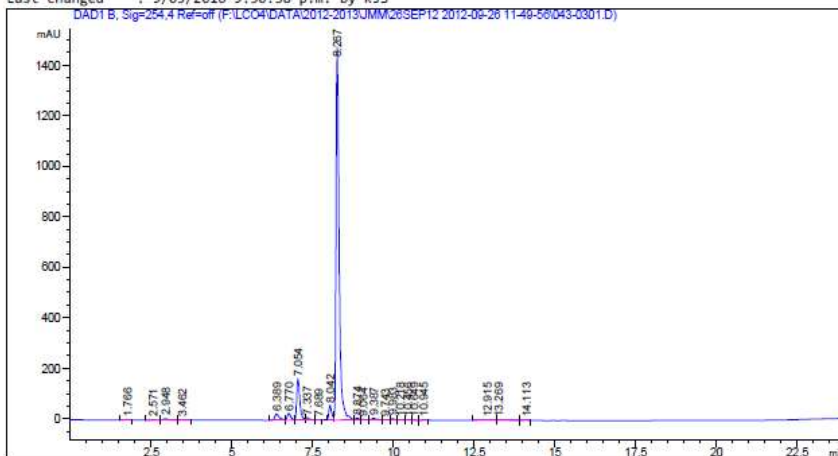
HPLC

Data File F:\LC04\DATA\2012-2013\JMM\26SEP12 2012-09-26 11:49:56\043-0301.D
 Sample Name: GBE12-081A

```

=====
Acq. Operator   : JMM                      Seq. Line :    3
Acq. Instrument : Instrument 1              Location  : Vial 43
Injection Date  : 26/09/2012 12:41:59 p.m. Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method    : I:\SHARED\INSTRUMENT DATA\HPLC AGILENT AG03\CURRENT\JMM\26SEP12 2012-09-26
                                           11-49-56\JMMUPNUCLEO.M
Last changed   : 26/09/2012 11:49:56 a.m. by JMM
Analysis Method: F:\LC04\METHODS\BJC\BJC WATER_35_ACN_65_20MIN_PORT1_2_F0_4.M
Last changed   : 9/05/2016 9:50:38 p.m. by K35
  
```



Area Percent Report

```

Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

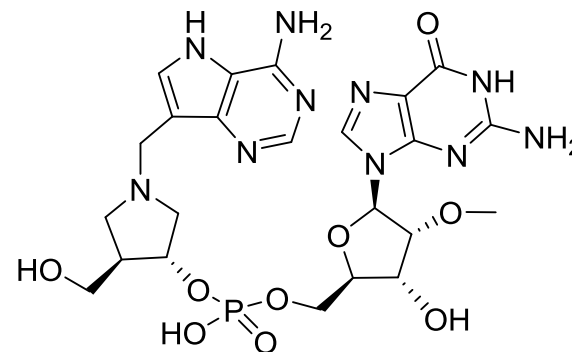
Signal 1: DAD1 B, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.766	BB	0.1508	21.02695	2.06486	0.1709
2	2.571	BV	0.1989	28.32448	1.95675	0.2303
3	2.948	VV	0.1724	66.55742	5.61151	0.5411
4	3.462	VB	0.1696	11.94811	1.02821	0.0971
5	6.389	BV	0.1487	247.54503	24.32026	2.0125
6	6.770	VV	0.1199	208.30351	26.44160	1.6934
7	7.054	VV	0.0990	1066.28943	161.51305	8.6686
8	7.337	VB	0.0989	69.69309	10.05455	0.5666

Data File F:\LC04\DATA\2012-2013\JMM\26SEP12 2012-09-26 11:49:56\043-0301.D
 Sample Name: GBE12-081A

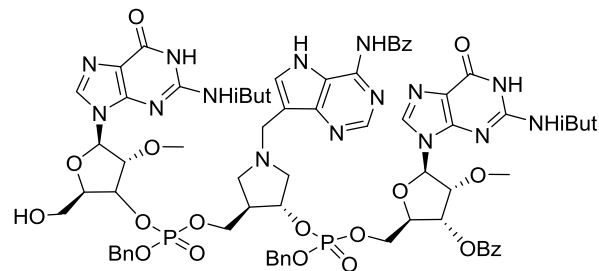
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
9	7.689	BB	0.0877	7.71522	1.29207	0.0627
10	8.042	BV	0.0944	351.13345	56.57267	2.8546
11	8.267	VV	0.1003	9912.06035	1476.09753	80.5881
12	8.874	VV	0.0956	54.42223	8.17696	0.4424
13	9.064	VB	0.0948	12.02891	1.82814	0.0978
14	9.387	BV	0.1509	64.74667	6.35444	0.5264
15	9.743	VV	0.1210	12.27727	1.53048	0.0998
16	9.983	VB	0.0862	32.44338	5.71796	0.2638
17	10.218	BV	0.1062	8.43718	1.19744	0.0686
18	10.456	VV	0.1046	9.89900	1.50790	0.0805
19	10.649	VB	0.0821	8.47933	1.59250	0.0689
20	10.945	BB	0.1041	17.04811	2.73794	0.1451
21	12.915	BV	0.3274	45.36571	1.06748	0.3688
22	13.269	VB	0.2343	31.00834	1.68778	0.2521
23	14.113	BB	0.1536	12.30021	1.35933	0.1000

Totals : 1.23007e4 1802.52039



30

¹H NMR
500 MHz



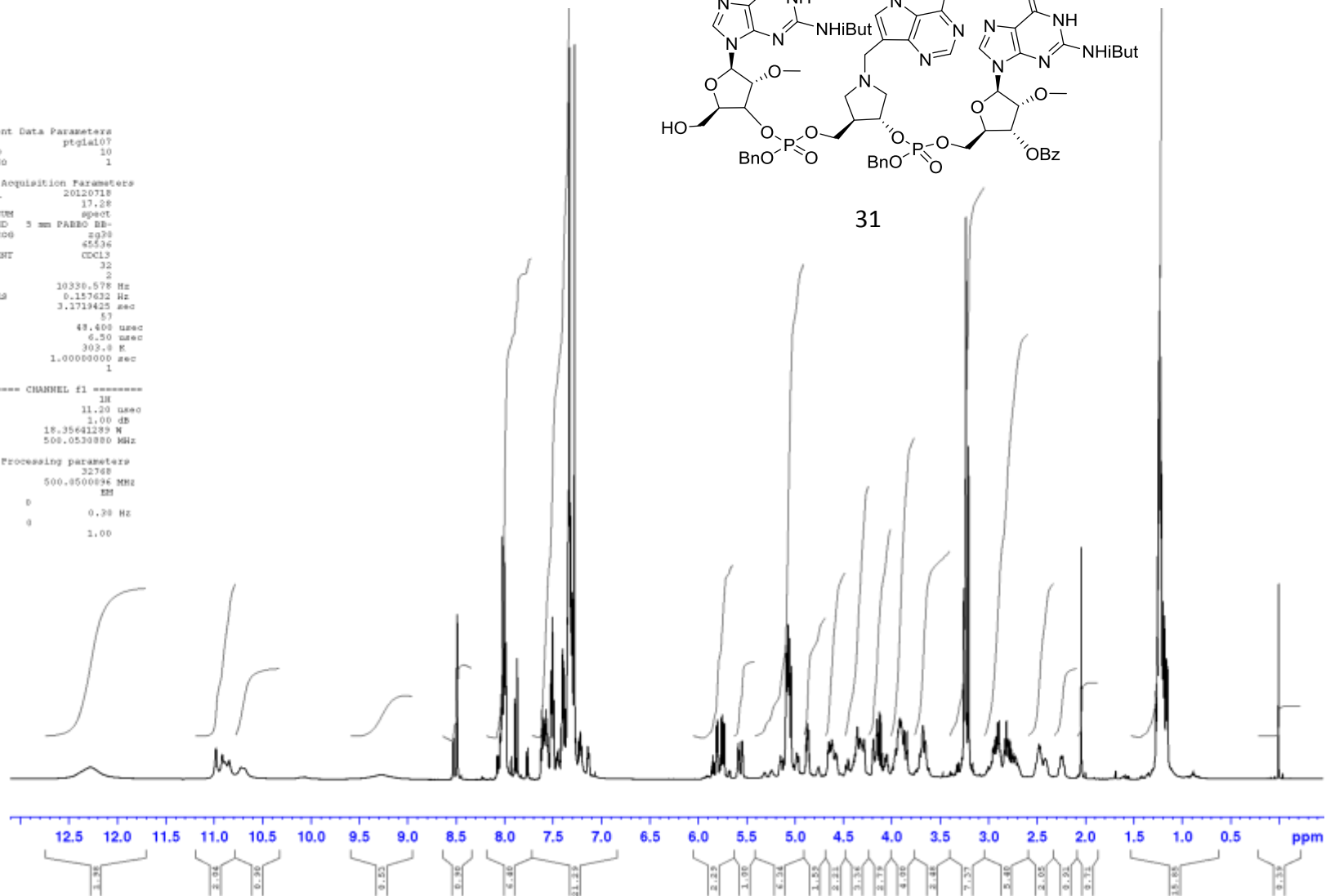
31

Current Data Parameters
NAME ptgl107
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20120718
Time 17.28
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 57
CW 49.409 usec
DE 6.50 usec
TE 303.2 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
PL1W 18.35641289 W
RFOL 500.0530880 MHz

F2 - Processing parameters
SI 32768
SF 500.0500936 MHz
NRM RM
SFO 0
LA 0 0.39 Hz
GB 0
PC 1.00



^{13}C NMR
126 MHz

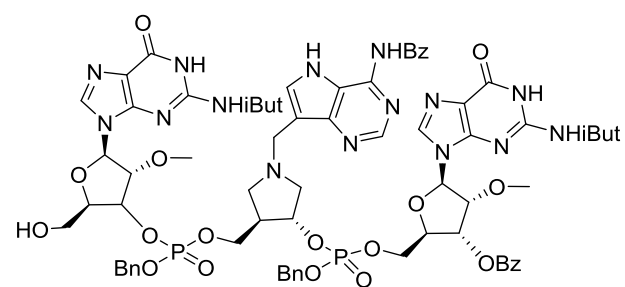
```
Current Data Parameters
NAME      ptgl107
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20120718
Time     18.34
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       2400
DS       4
SWH      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       144
DM       16.000 usec
DE       15.08 usec
TE       305.0 K
D3       8.58000000 sec
D11      8.09000000 sec
TE0      1

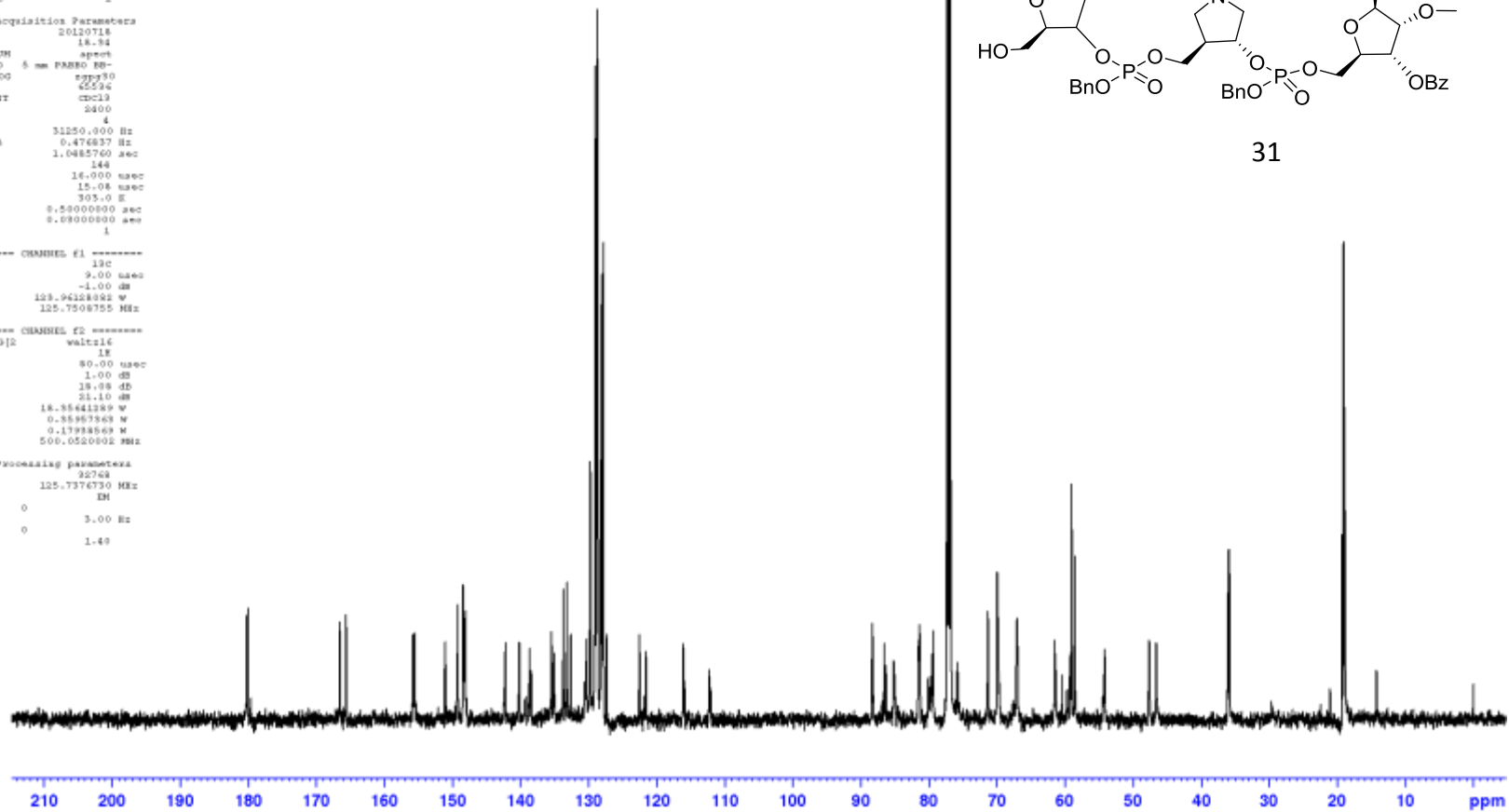
----- CHANNEL f1 -----
NUC1     13C
P1       9.00 usec
P11      -1.00 dB
P11W     128.9412884 W
SFO1     125.7506755 MHz

***** CHANNEL f2 *****
CPOPRG12 waltz16
NUC2     1H
PCPD2    80.00 usec
P12      1.00 dB
P112     19.98 dB
P113     21.10 dB
P12W     18.95441289 W
P112W    0.35967363 W
P113W    0.17983669 W
SFO2     500.0520002 MHz

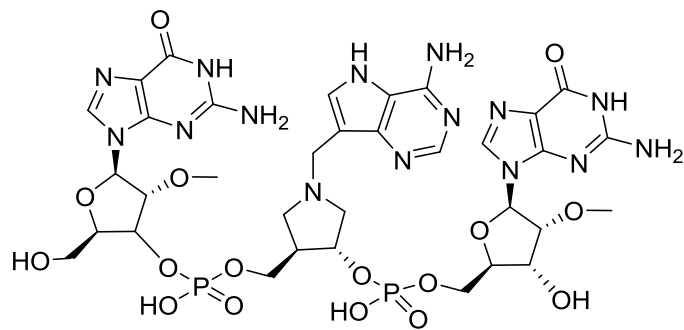
F2 - Processing parameters
SI       32768
SF       125.7376730 MHz
MCM      EM
ASB      0
LB       3.00 Hz
GB       0
PC       1.49
```



31



¹³C NMR
126 MHz



32

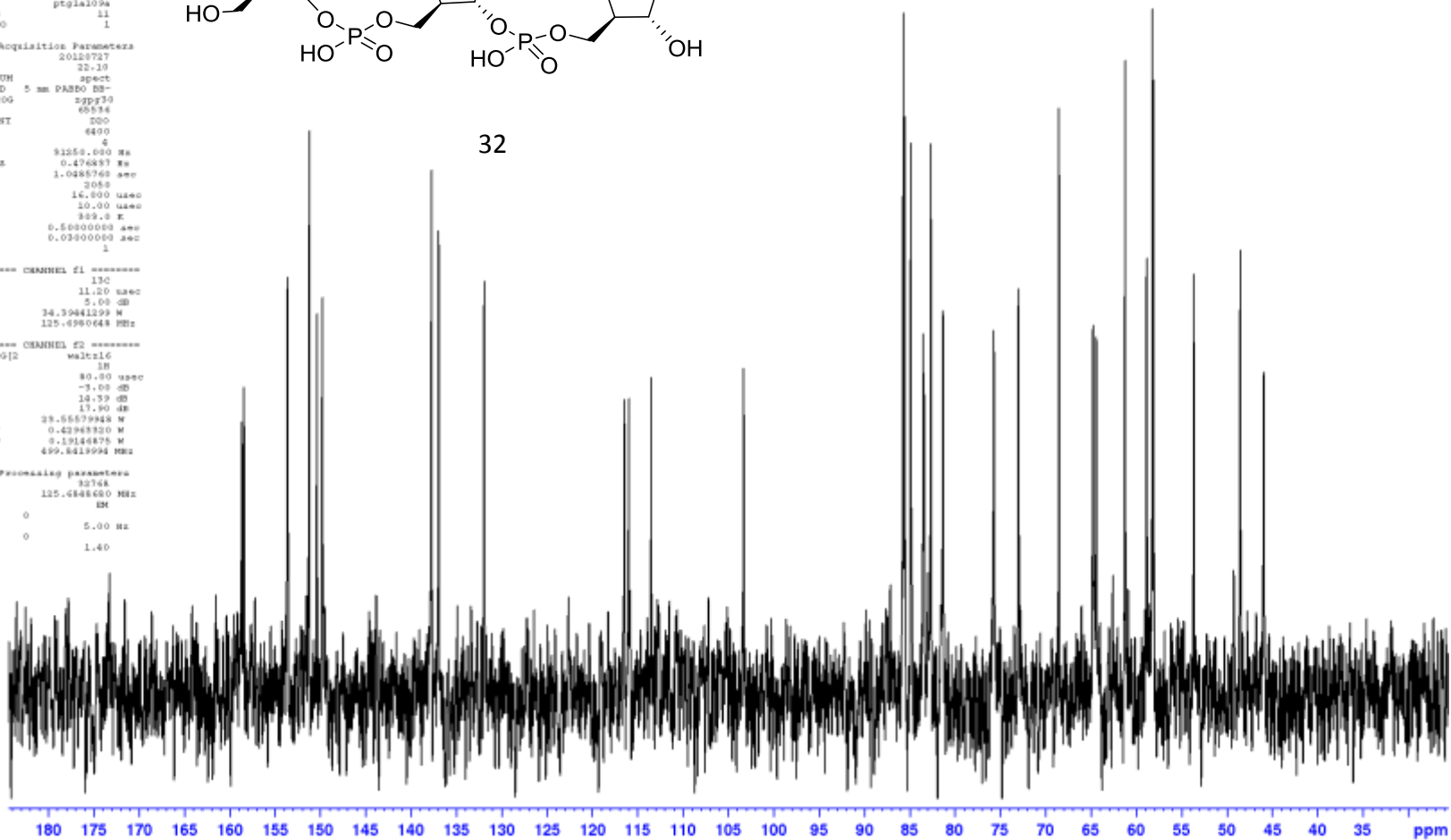
```
Current Data Parameters
NAME      pt1a109a
EXPNO    11
PROCNO    1

F2 - Acquisition Parameters
Date_     20120727
Time      22:10
INSTRUM   spect
PROBHD    5 mm PABBO D5-
PULPROG   zgpg30
TD         65536
SOLVENT   D2O
NS         4800
DS         4
SWH        31250.000 Hz
FIDRES     0.476497 Hz
AQ         1.0488748 sec
RG         2058
DW         16.800 usec
DE         10.00 usec
TE         303.2 K
D1         0.50000000 sec
D11        0.03000000 sec
TDO        1

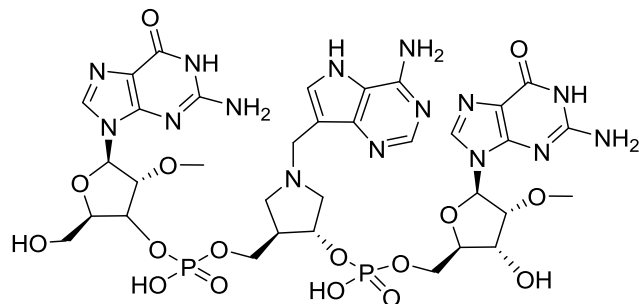
===== CHANNEL f1 =====
NUC1       13C
P1         11.20 usec
P1L        5.00 dB
P1LM       34.39441299 W
SFO1       125.6390648 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
P2         -7.00 dB
P2L        14.39 dB
P2LM       39.55579948 W
SFO2       499.8419994 MHz

F2 - Processing parameters
SI         32768
SF         125.6348600 MHz
RG         328
SSB        0
LB         5.00 Hz
GB         0
PC         1.40
```



³¹P NMR
202 MHz



32

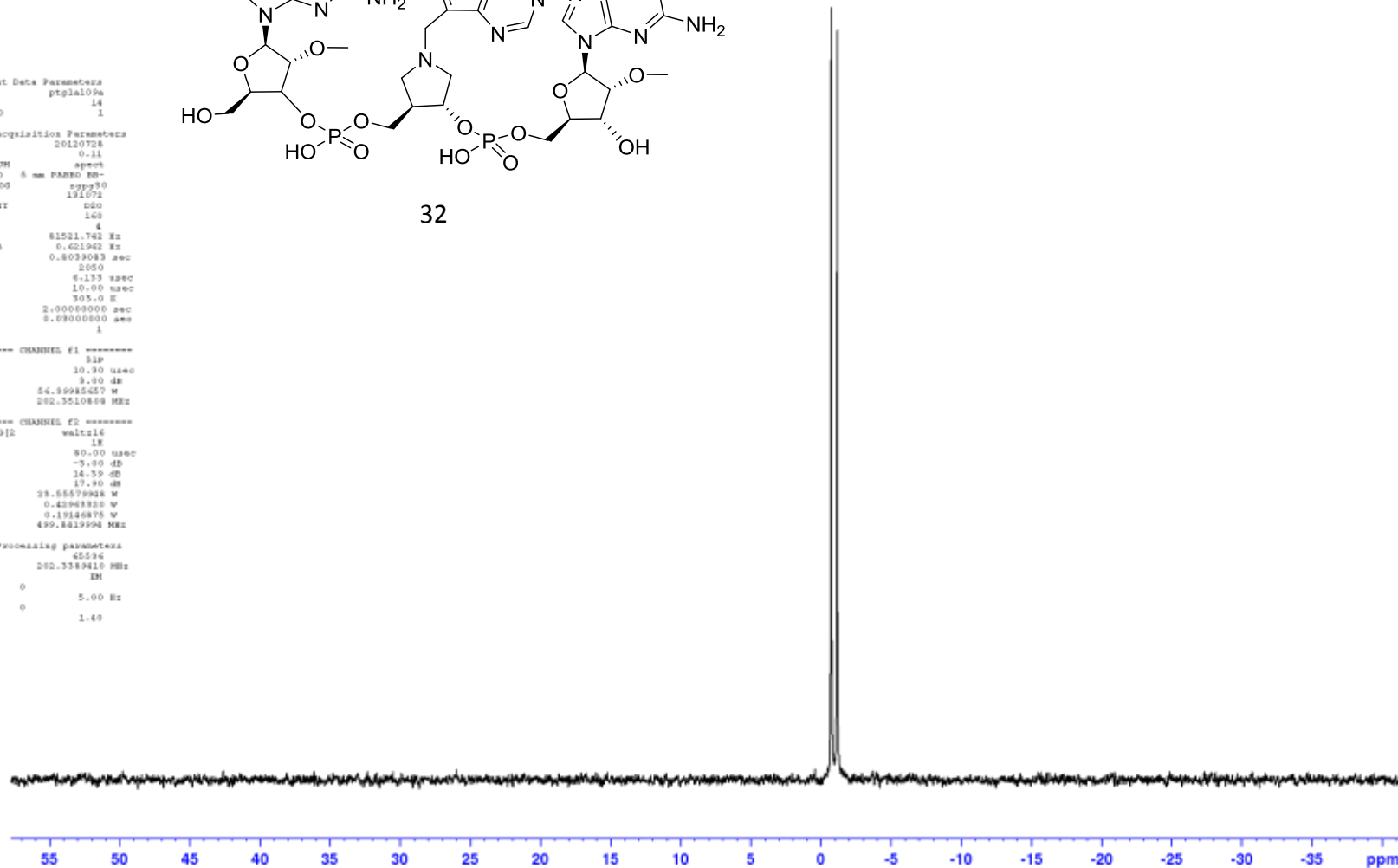
Current Data Parameters
NAME ptglal09a
EXPNO 14
PROCNO 1

F2 - Acquisition Parameters
Date_ 20120724
Time 0.11
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 160
DS 4
SWH 61521.742 Hz
FIDRES 0.621962 Hz
AQ 0.8039083 sec
RG 2500
DW 6.133 usec
DE 10.00 usec
IE 305.0 E
D3 2.00000000 sec
D11 0.09000000 sec
TEO 1

----- CHANNEL F1 -----
NUC1 ³¹P
P1 20.30 usec
P11 9.30 dB
P1M 56.99985257 W
SFO1 202.3510888 MHz

***** CHANNEL F2 *****
CHOPPR12 waltz16
NUC2 ¹³C
PCPD2 80.00 usec
P12 -3.30 dB
P112 14.39 dB
P113 17.80 dB
P1M 29.65579928 W
P11M 0.43968320 W
P11M 0.19136875 W
SFO2 499.8419994 MHz

F2 - Processing parameters
SI 65594
SF 202.3519410 MHz
MEM 1M
SAB 0
LB 5.00 Hz
GB 0
PC 1.43



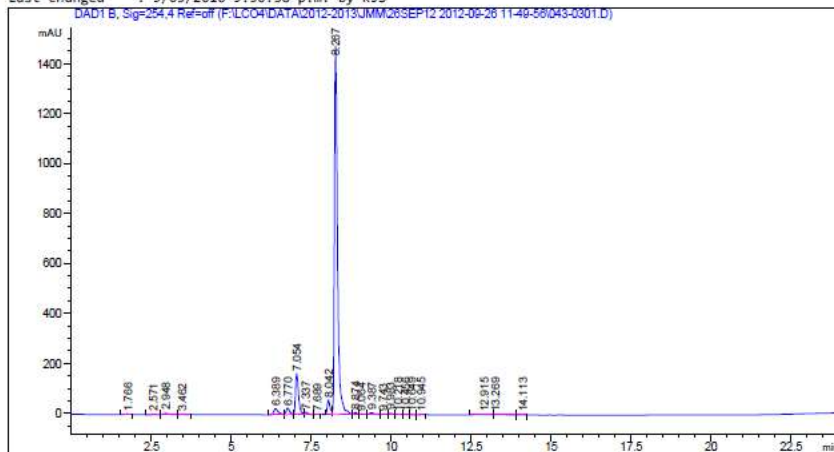
HPLC

Data File F:\LC04\DATA\2012-2013\JMM\26SEP12 2012-09-26 11-49-56\043-0301.D
 Sample Name: GBE12-081A

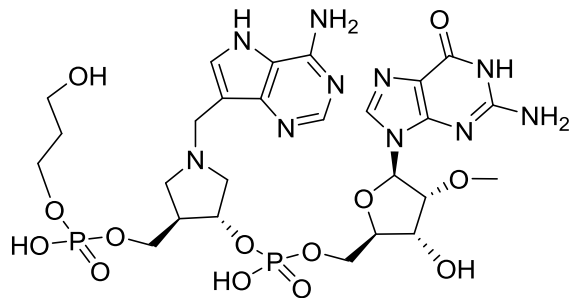
```

=====
Acq. Operator   : JMM                      Seq. Line : 3
Acq. Instrument : Instrument 1              Location  : Vial 43
Injection Date  : 26/09/2012 12:41:59 p.m. Inj       : 1
                                           Inj Volume: 5.000 µl

Acq. Method    : I:\SHARED\INSTRUMENT DATA\HPLC AGILENT AG03\CURRENT\JMM\26SEP12 2012-09-26
                                           11-49-56\JMMUPNUCLEO.M
Last changed   : 26/09/2012 11:49:56 a.m. by JMM
Analysis Method : F:\LC04\METHODS\BJC\BJC WATER_35_ACN_65_20MIN_PORT1_2 F0_4.M
Last changed   : 9/05/2016 9:50:38 p.m. by KJS
  
```



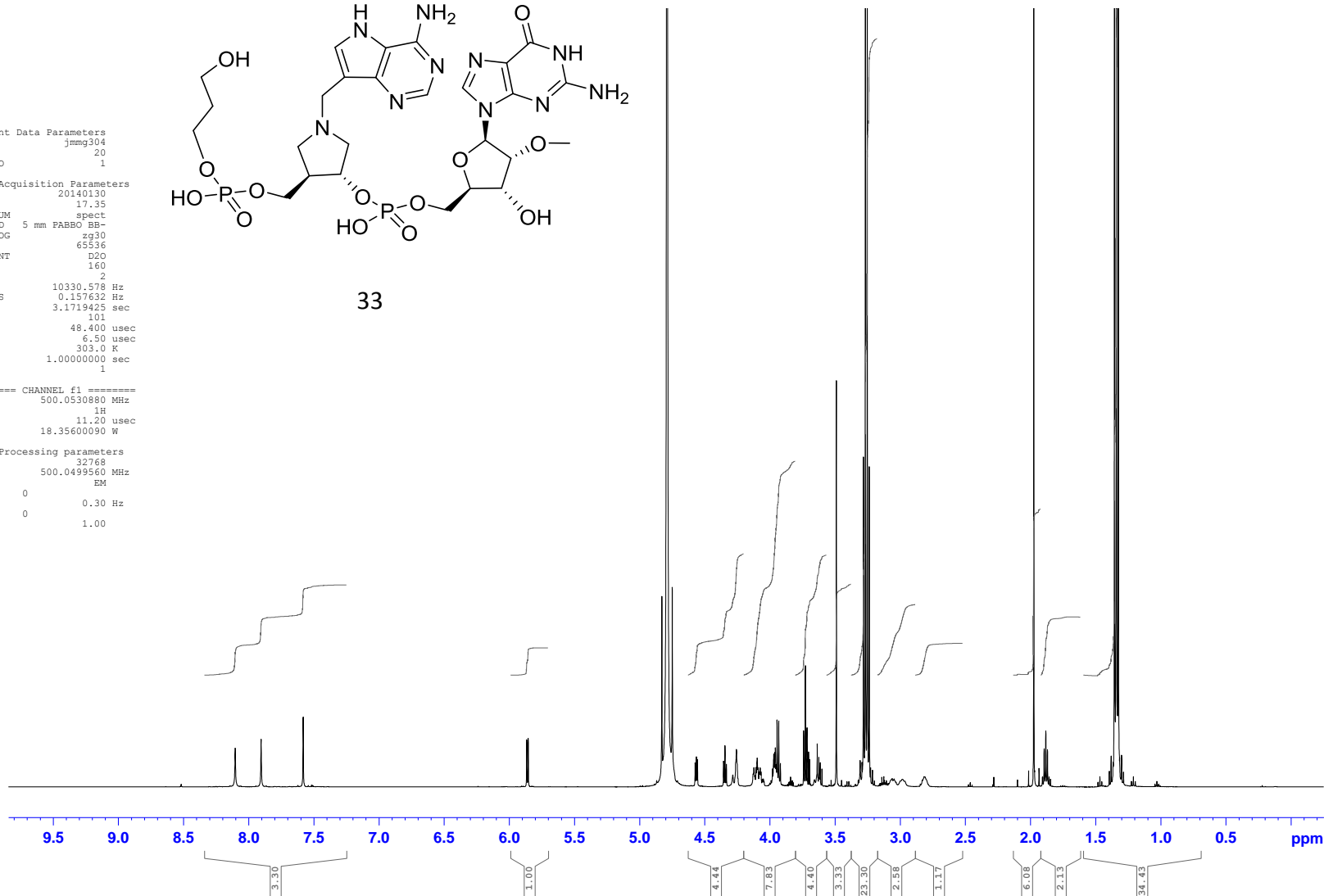
**¹H NMR
500 MHz**



33

Current Data Parameters
 NAME jmmg304
 EXPNO 20
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20140130
 Time 17.35
 INSTRUM spect
 PROBDH 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT D2O
 NS 160
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719425 sec
 RG 101
 DW 48.400 usec
 DE 6.50 usec
 TE 303.0 K
 DI 1.0000000 sec
 TDO 1

==== CHANNEL f1 =====
 SFOL 500.0530880 MHz
 NUCL 1H
 P1 11.20 usec
 PLWL 18.35600090 W
 F2 - Processing parameters
 SI 32768
 SF 500.0499560 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

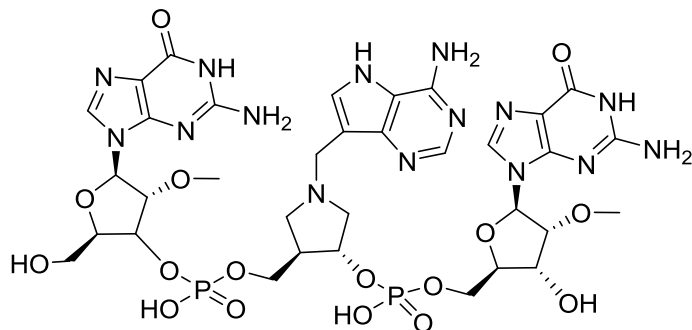


**¹³C NMR
126 MHz**

```

Current Data Parameters
NAME      Jmg304
EXPNO    21
PROCNO    1

F2 - Acquisition Parameters
Date_     20140130
Time      19.17
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD         65536
SOLVENT   D2O
NS         7200
DS         4
SWH        31256.006 MHz
FIDRES     0.476827 Hz
AQ         1.0485766 sec
RG         64
DM         16.006 usec
DE         9.08 usec
TE         303.0 K
D1         0.50000000 sec
D11        0.03000000 sec
TD0        1
  
```



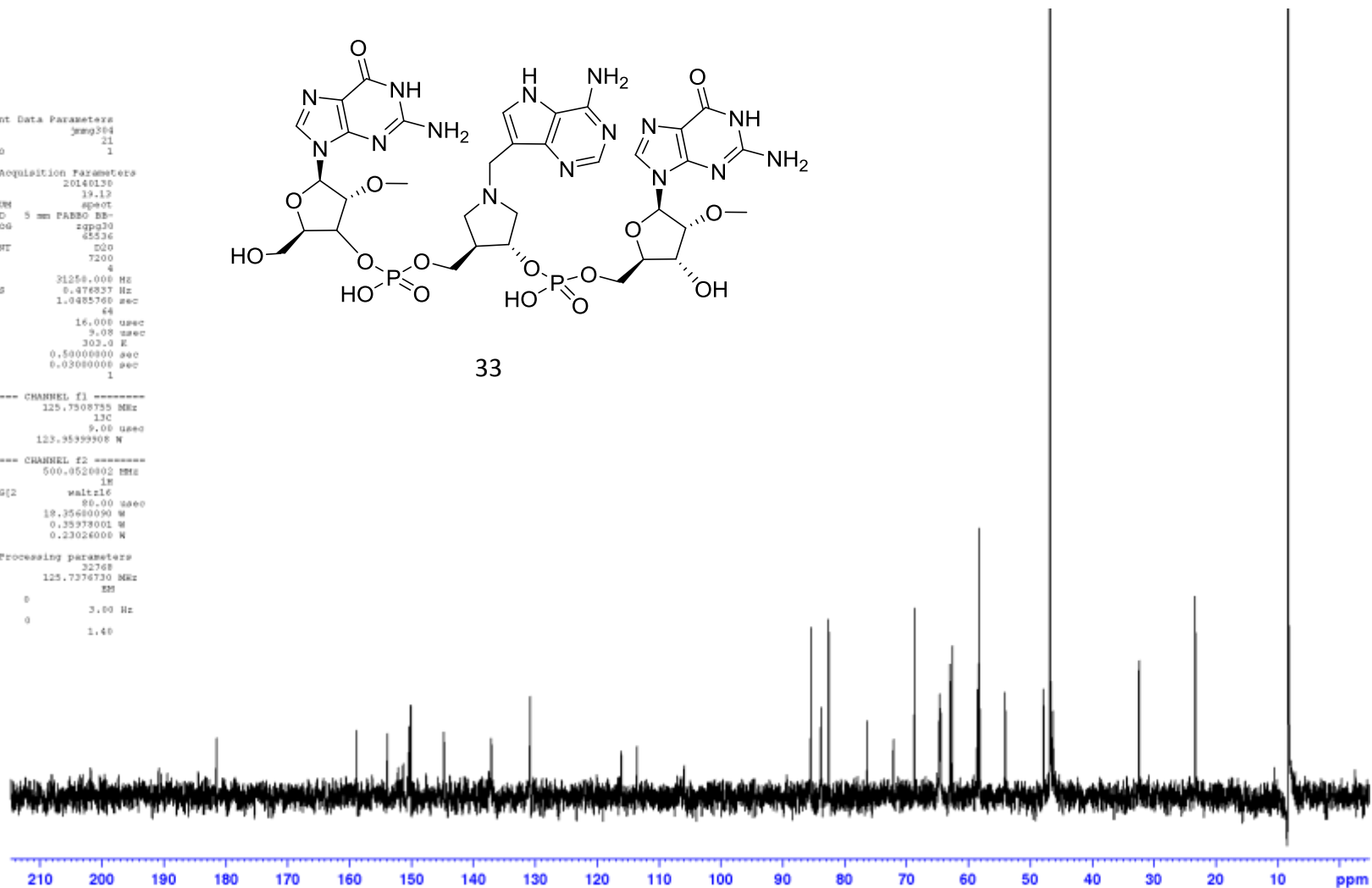
33

```

----- CHANNEL f1 -----
SFO1    125.750733 MHz
NUC1     13C
P1       9.06 usec
PLM1     123.9599908 W

----- CHANNEL f2 -----
SFO2    500.0520902 MHz
NUC2     1H
CPDPRG2  waltz16
PCPD2    80.00 usec
PLM2     18.35600090 W
PLM12    0.33978001 W
PLM13    0.23026006 W

F2 - Processing parameters
SI       32768
SF       125.7376730 MHz
NUM      655
SFB      0
LB       3.00 Hz
GB       0
PC       1.40
  
```



**³¹P NMR
202 MHz**

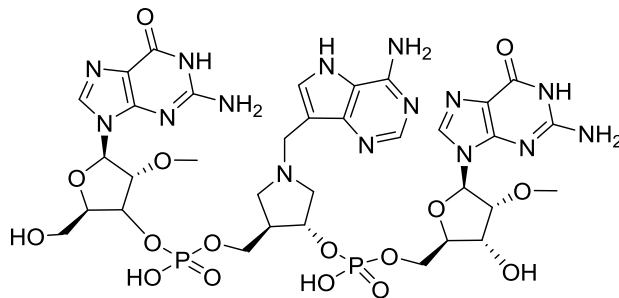
Current Data Parameters
 NAME jmg304
 EXPNO 26
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20140131
 Time 3.19
 INSTRUM spect
 PROBRD 5 mm PARBO BR-
 PULPROG zgpg30
 ID 131072
 SOLVENT D2O
 NS 168
 DS 4
 SWH 81521.742 Hz
 FIDRES 0.421962 Hz
 AQ 0.8034083 sec
 RG 2050
 EN 6.138 usec
 DE 6.50 usec
 TE 303.0 K
 D1 2.08000000 sec
 D11 0.03000000 sec
 TDO 1

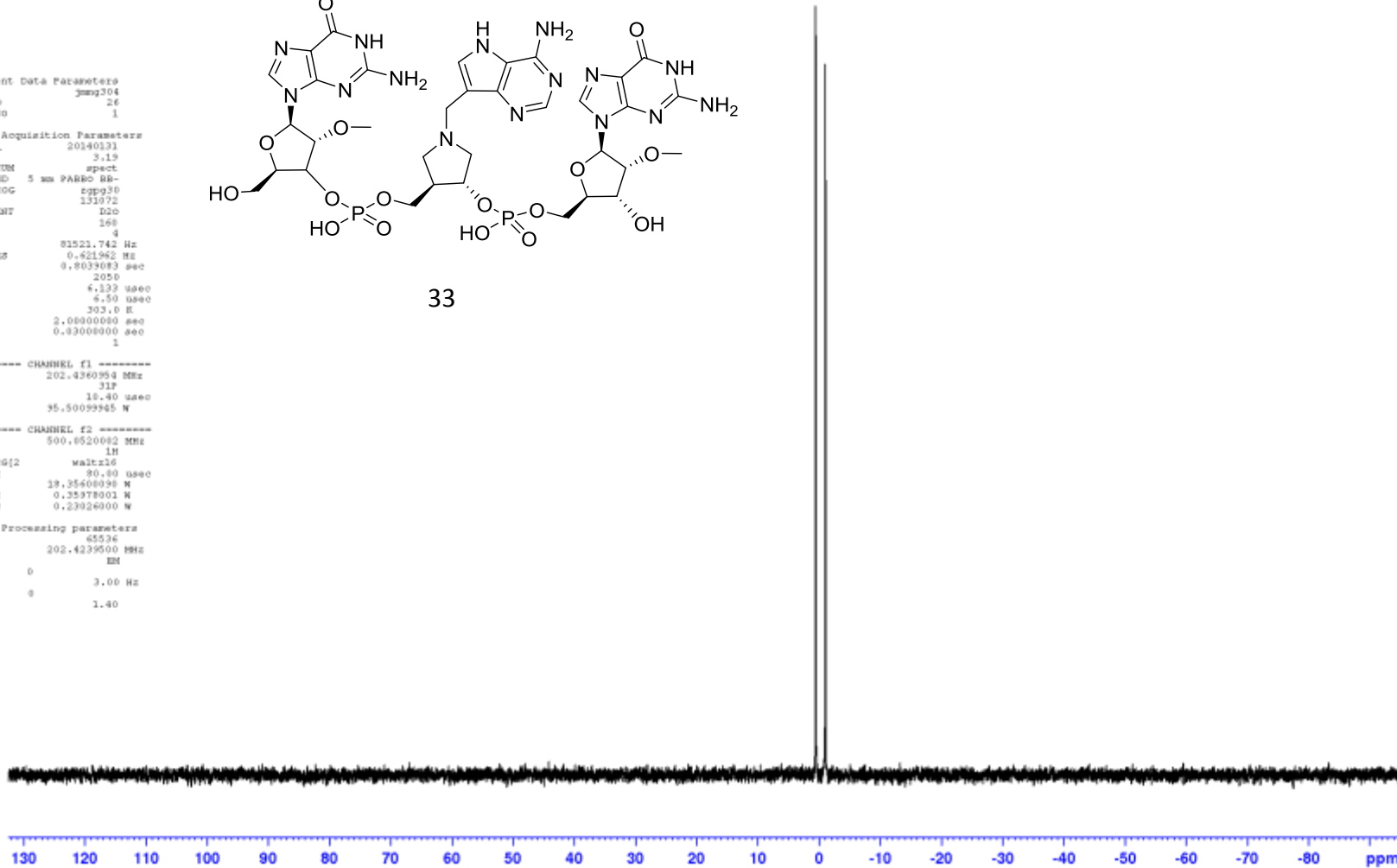
----- CHANNEL f1 -----
 SFO1 202.4360984 MHz
 NUCL1 31P
 P1 18.40 usec
 PL1 35.50099945 W

----- CHANNEL f2 -----
 SFO2 500.852082 MHz
 NUC2 1H
 CPDPRG2 waltz16
 PCPD2 90.00 usec
 P1M2 18.35608098 W
 PLM2 0.35978001 W
 P1M3 0.23926000 W

F2 - Processing parameters
 SI 65536
 SF 202.4239500 MHz
 NDM 819
 BR 0
 LR 3.00 Hz
 GB 0
 PC 1.40



33



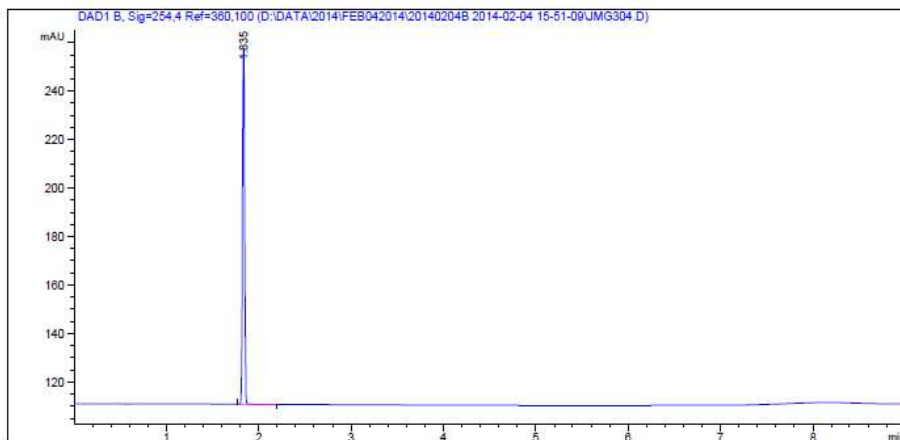
HPLC

Data File D:\DATA\2014\FEB042014\20140204B 2014-02-04 15-51-09\JMG304.D
 Sample Name: jmg304

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : LCMS                      Location  : Vial 82
Injection Date  : 2/4/2014 4:09:23 PM       Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method    : D:\DATA\FEB042014\20140204B 2014-02-04 15-51-09\P1 T9 AW BM FA 5-50M G5H1 .9-
                20.M
Last changed   : 2/4/2014 3:51:10 PM by SYSTEM
Analysis Method: D:\DATA\2014\FEB042014\20140204B 2014-02-04 15-51-09\P1 T9 AW BM FA 5-50M G5H1
                .9-20.M (Sequence Method)
Last changed   : 2/4/2014 3:51:10 PM by SYSTEM
Method Info    : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-5min
                5-50%B; T5-6 min 50%B; Flow 0.5 mL/min; m/z 100-1000
  
```



Area Percent Report

```

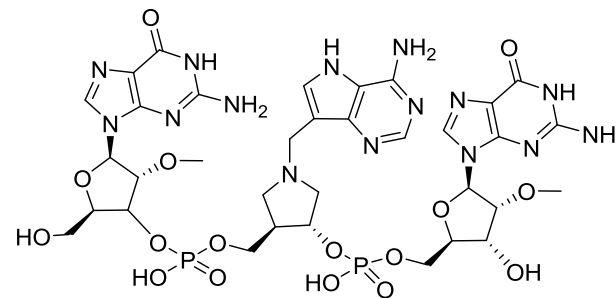
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Data File D:\DATA\2014\FEB042014\20140204B 2014-02-04 15-51-09\JMG304.D
 Sample Name: jmg304

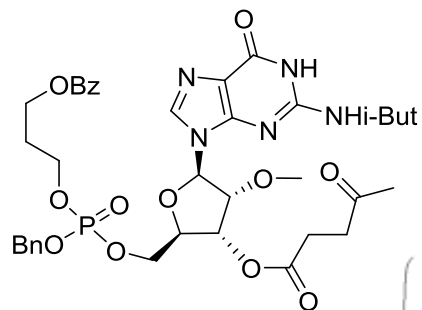
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.835	BB	0.0244	233.36501	147.69135	100.0000
Totals :				233.36501	147.69135	

*** End of Report ***



33

¹H NMR
500 MHz



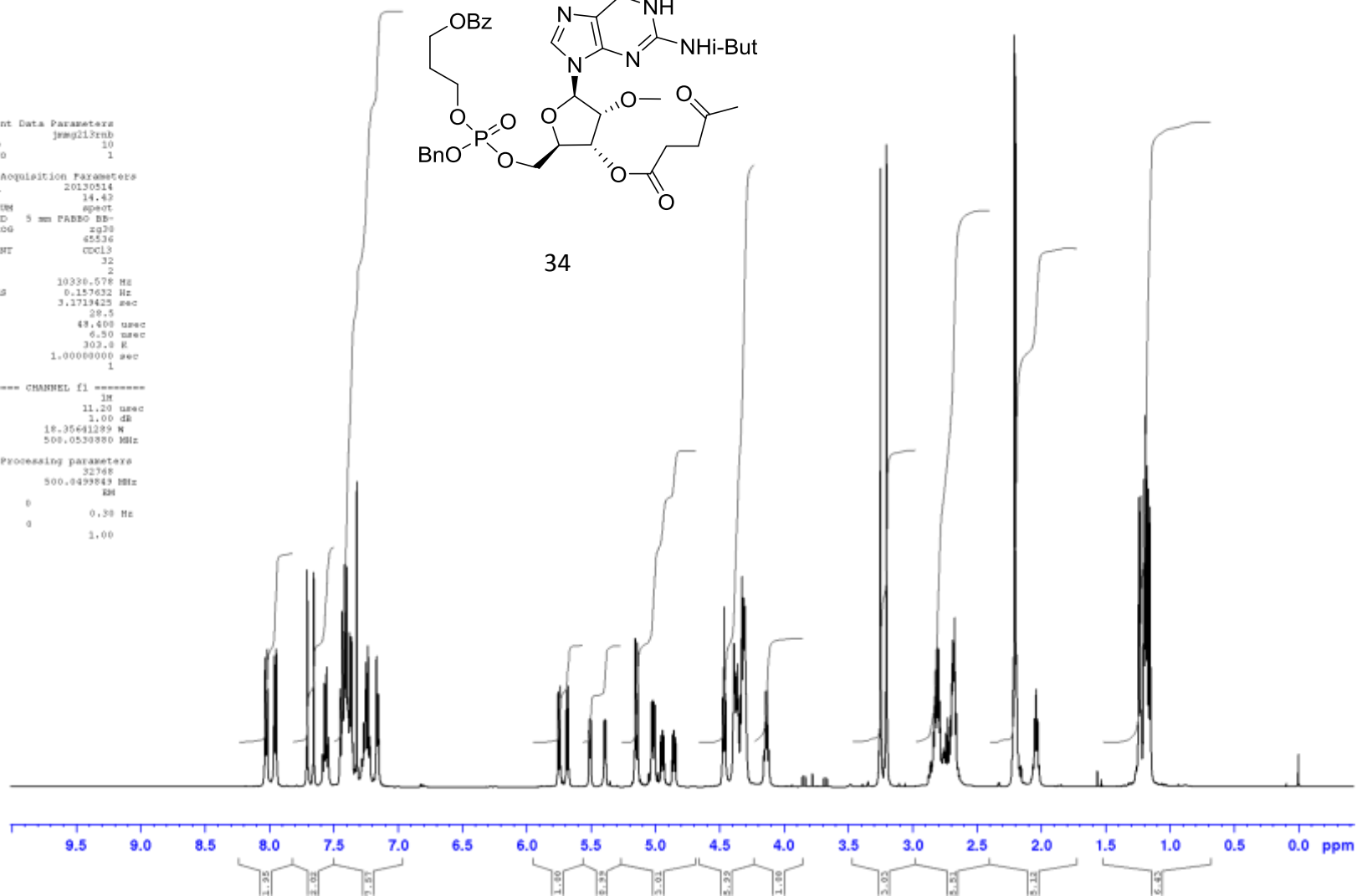
34

Current Data Parameters
NAME jmg213rn
EXPNO 10
PROCNO 1

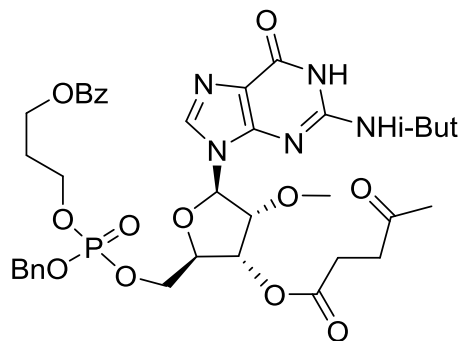
F2 - Acquisition Parameters
Date_ 20130514
Time 14.47
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 28.5
DM 49.400 usec
DE 6.50 usec
TE 302.9 K
DL 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
F1IN 18.35641289 MHz
SF01 500.0530980 MHz

F2 - Processing parameters
S2 32768
SF 500.0499843 MHz
WDW EM
SSB 0
LB 0.39 Hz
GB 0
FC 1.00



¹³C NMR
126 MHz



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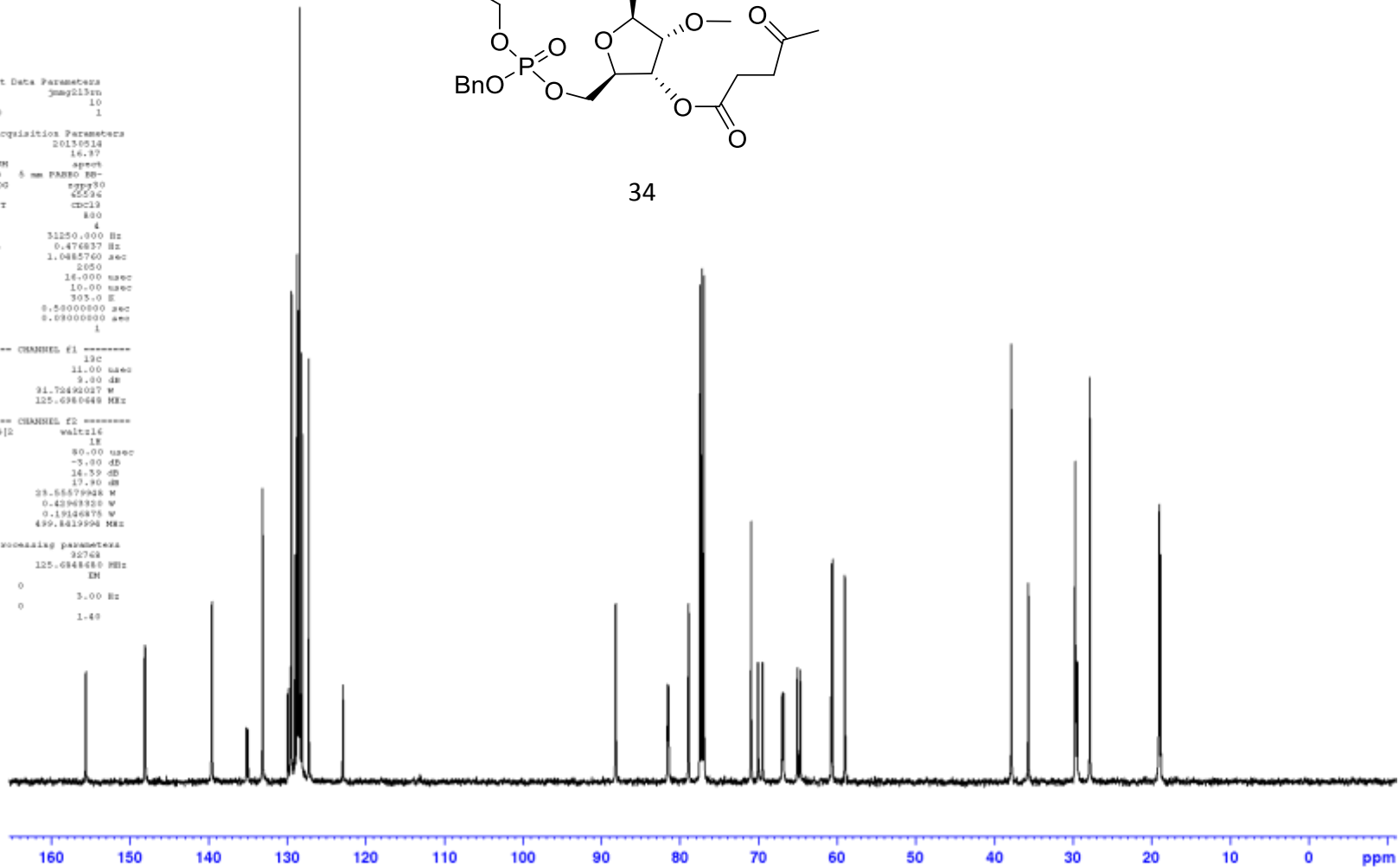
```
Current Data Parameters
NAME      mag213rn
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20130514
Time     16.37
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SWH      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.000 usec
TE       305.0 K
D3       8.58000000 sec
D11      8.09000000 sec
TE0      1

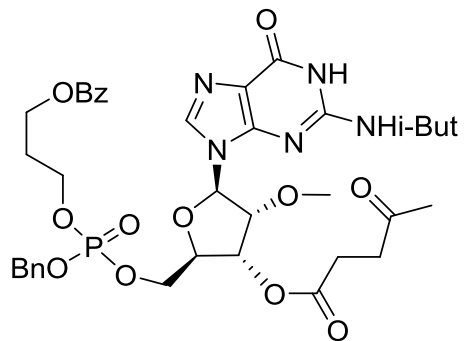
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.80 dB
P11M     31.72492027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.80 dB
P112     14.39 dB
P113     17.80 dB
P12M     29.65579948 W
P112M    0.43968320 W
P113M    0.19186878 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCW      IM
SAB      0
LB       3.00 Hz
GB       0
PC       1.49
```



³¹P NMR
202 MHz



34

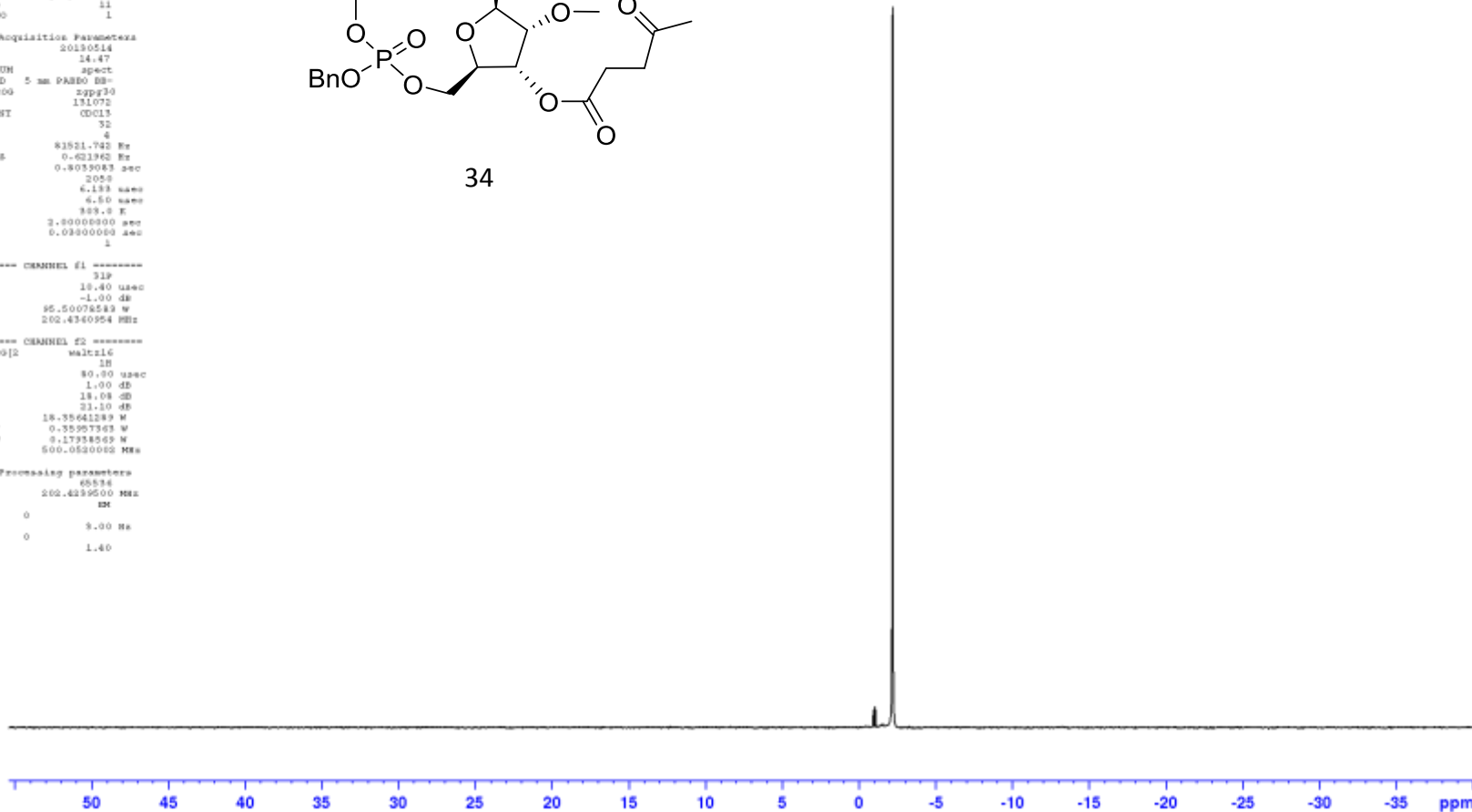
```
Current Data Parameters
NAME      300021544
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20130514
Time      14:47
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        131072
SOLVENT   CDCl3
NS        32
DS        4
SWH        81521.742 Hz
FIDRES    0.621962 Hz
AQ         0.8039083 sec
RG         2058
DW         6.123 usec
DE         6.50 usec
TE         299.2 K
D1         3.0000000 sec
d11        0.03000000 sec
TE0        1

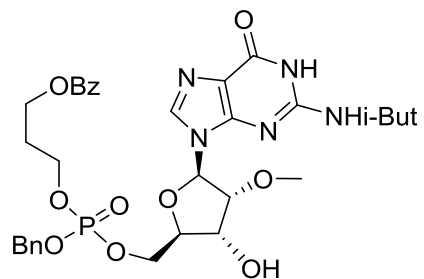
----- CHANNEL f1 -----
NUC1       31P
P1         18.40 usec
P11        -1.00 dB
P1LM       55.50078523 W
SFO1       202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRG2  mltiplc
NUC2       1H
PCPD2     80.00 usec
P12        1.00 dB
P112       19.08 dB
P113       21.10 dB
P12M       18.35641289 W
P112M      0.35907363 W
P113M      0.17948569 W
SFO2       500.0520082 MHz

F2 - Processing parameters
SI         65536
SF         202.4239500 MHz
NCM        0
ZSN        0
GB         0
PC         1.40
```



¹H NMR
500 MHz



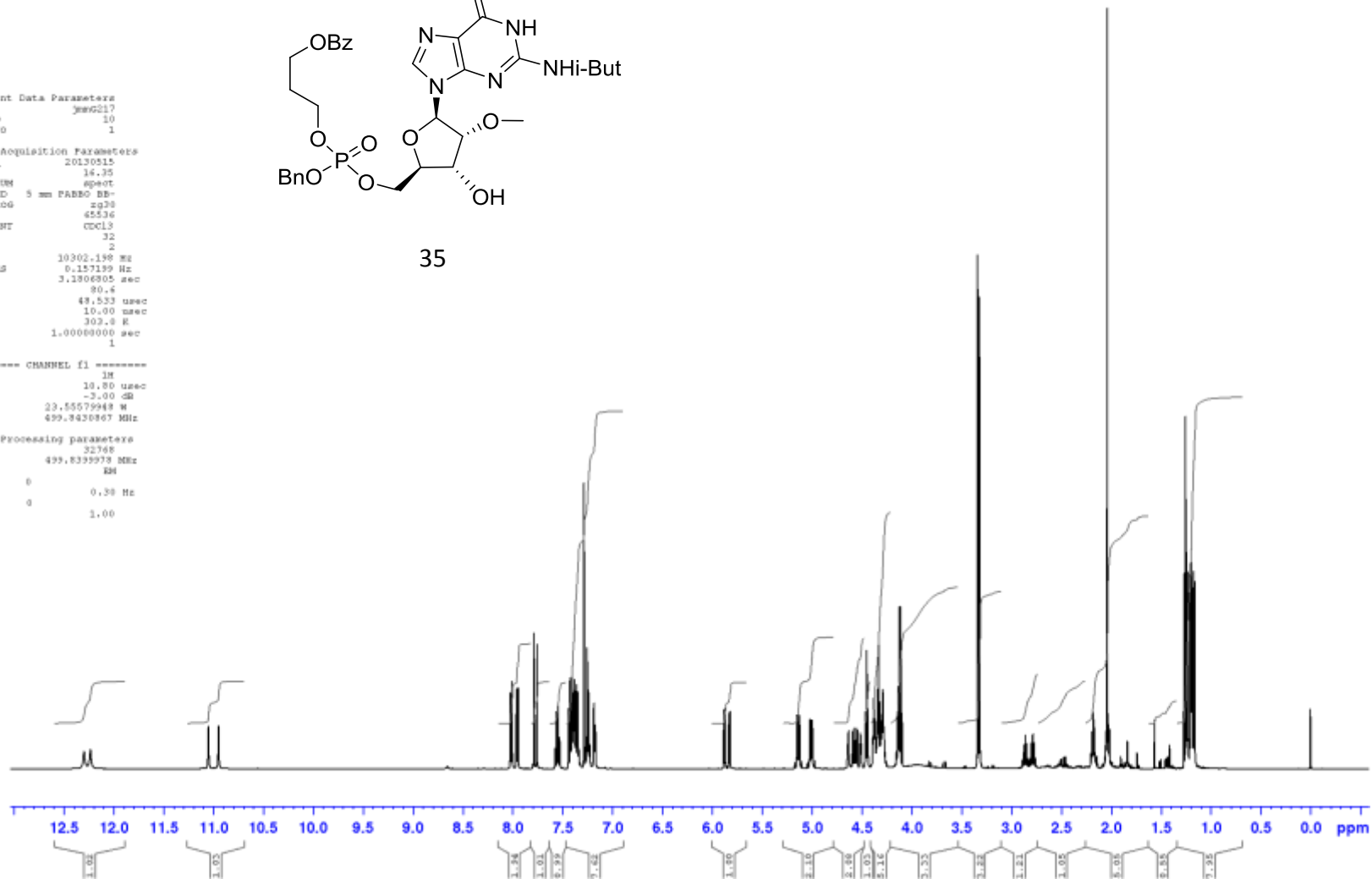
35

```
Current Data Parameters
NAME          JMWG217
EXPNO        10
PROCNO        1

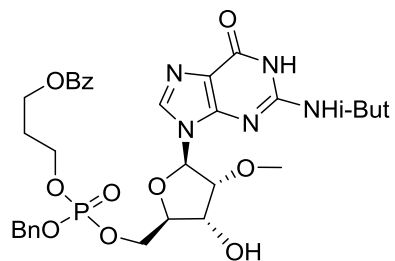
F2 - Acquisition Parameters
Date_         20130515
Time          14.35
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           45536
SOLVENT      CDCl3
NS           32
DS           2
SWH          10302.198 Hz
FIDRES       0.157139 Hz
AQ           3.1806305 sec
RG           80.4
DM           48.533 usec
DE           10.00 usec
TE           302.2 K
D1           1.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1            10.00 usec
P11           -3.00 dB
PL1M         23.55579948 W
SFO1         499.8420867 MHz

F2 - Processing parameters
SI            32768
SF           499.832973 MHz
WDW          EM
SSB          0
LB           0.39 Hz
GB           0
PC           1.00
```



¹³C NMR
126 MHz



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```

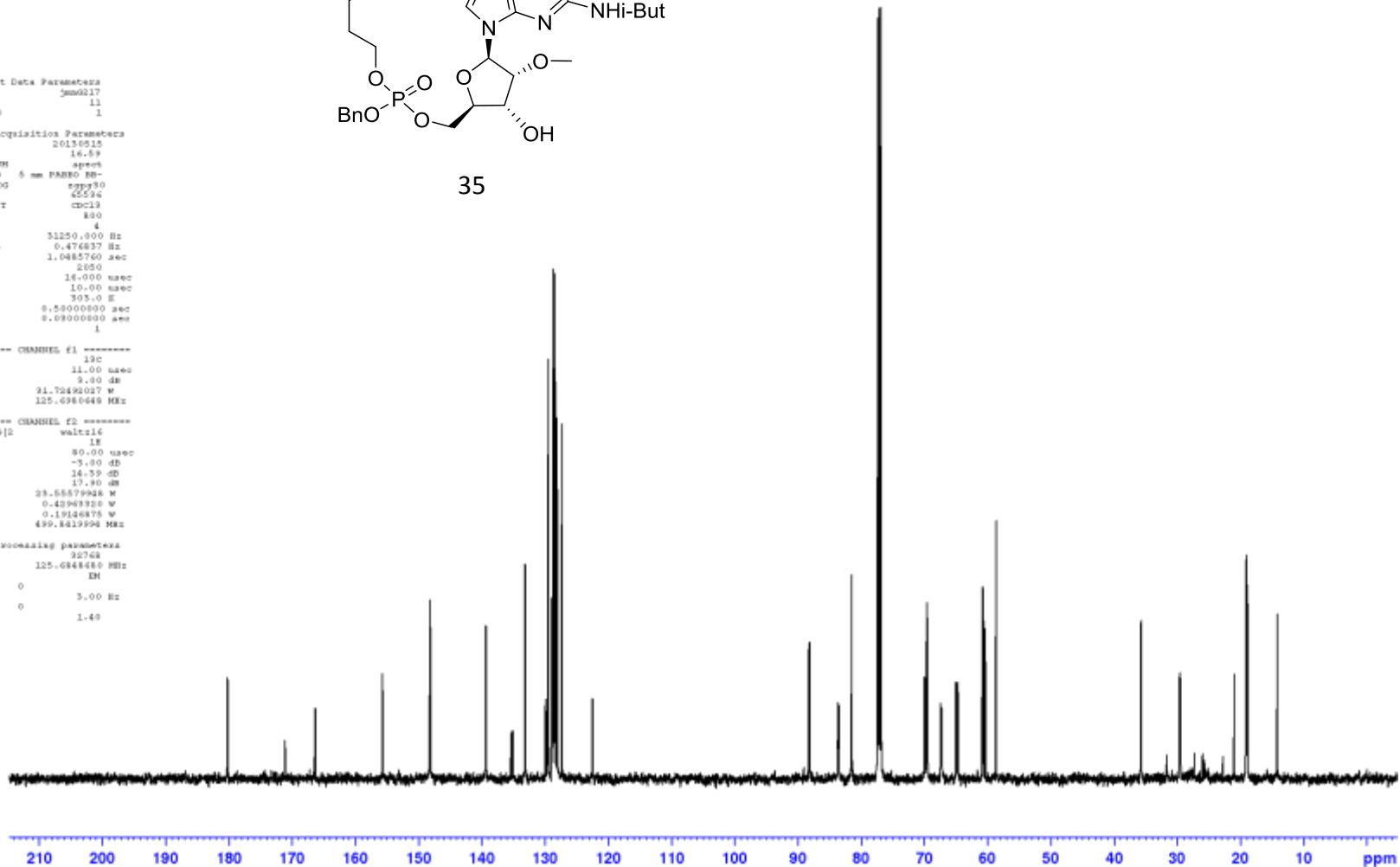
Current Data Parameters
NAME          jmm0217
EXPNO         11
PROCNO        1

F2 - Acquisition Parameters
Date_         20150515
Time          16:39
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       cpd13
NS            830
DS            4
SWH           31250.000 Hz
FIDRES        0.476837 Hz
AQ            1.0485760 sec
RG            2050
DM            18.000 usec
DE            10.00 usec
IE            305.0 E
D3            8.59000000 sec
D11           8.09000000 sec
TEO           1

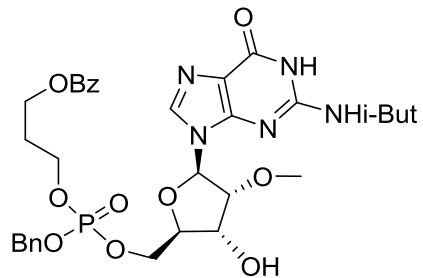
----- CHANNEL f1 -----
NUC1          13C
P1            11.00 usec
P11           9.00 dB
P1LW         31.7049027 W
SFO1         125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2       waltz16
NUC2          1H
PCPD2        80.00 usec
P12           -3.00 dB
P1L2         14.39 dB
P1L3         17.90 dB
P1LW         29.65579948 W
P1L3W        0.43969320 W
P1L3W        0.19166875 W
SFO2         499.8419994 MHz

F2 - Processing parameters
SI            32768
SF           125.0984648 MHz
WDW          EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.49
  
```



**³¹P NMR
202 MHz**



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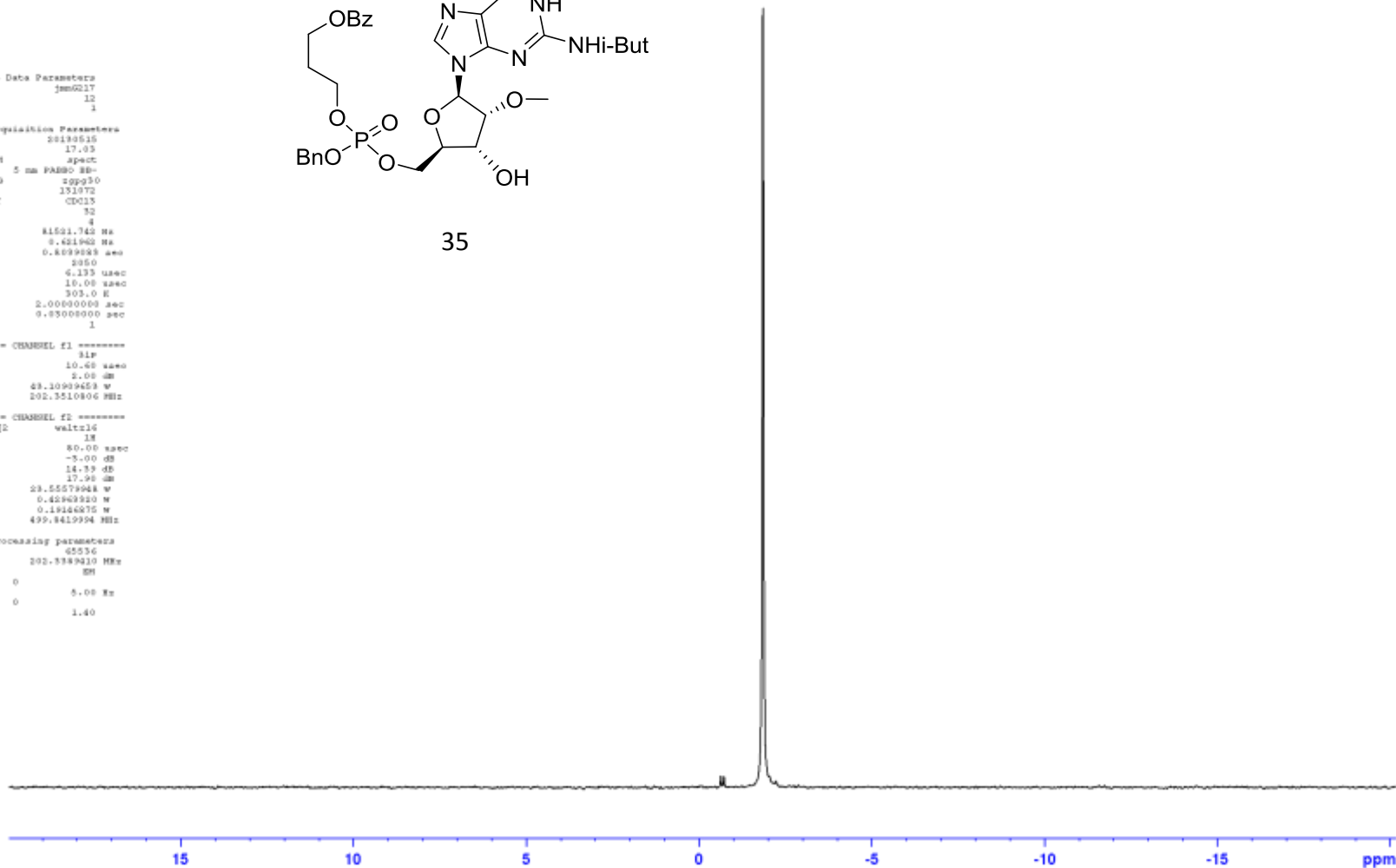
```
Current Data Parameters
NAME      jsm0217
EXPNO     12
PROCNO    1

F2 - Acquisition Parameters
Date_     20101010
Time      17.03
INSTRUM   spect
PROBHD    5 mm PABBO 9H-
PULPROG   zgpg30
TD         131072
SOLVENT   CDCl3
NS         32
DS         4
SWH        81521.742 Hz
FIDRES     0.421962 Hz
AQ          0.489928 sec
RG          3850
DW          6.133 usec
DE          16.05 usec
IE          503.0 E
D1          2.0000000 sec
D11         0.9300000 sec
TD0         1

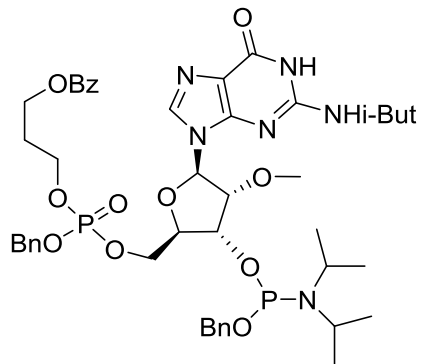
===== CHANNEL f1 =====
NUC1       31p
P1         10.00 usec
P11        2.00 dB
P11W       49.10909458 W
SFO1       202.3510806 MHz

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2       1H
PCPD2     80.00 usec
P21        3.00 dB
P212       14.33 dB
P213       17.95 dB
P21W       23.55579948 W
P21W2     0.42049320 W
P21W3     0.19146875 W
SFO2       499.8419994 MHz

F2 - Processing parameters
SI         65536
SF         202.3389410 MHz
MEW        0
SFO        0
LB          0
GB          0
WC          1.40
```



**³¹P NMR
202 MHz**



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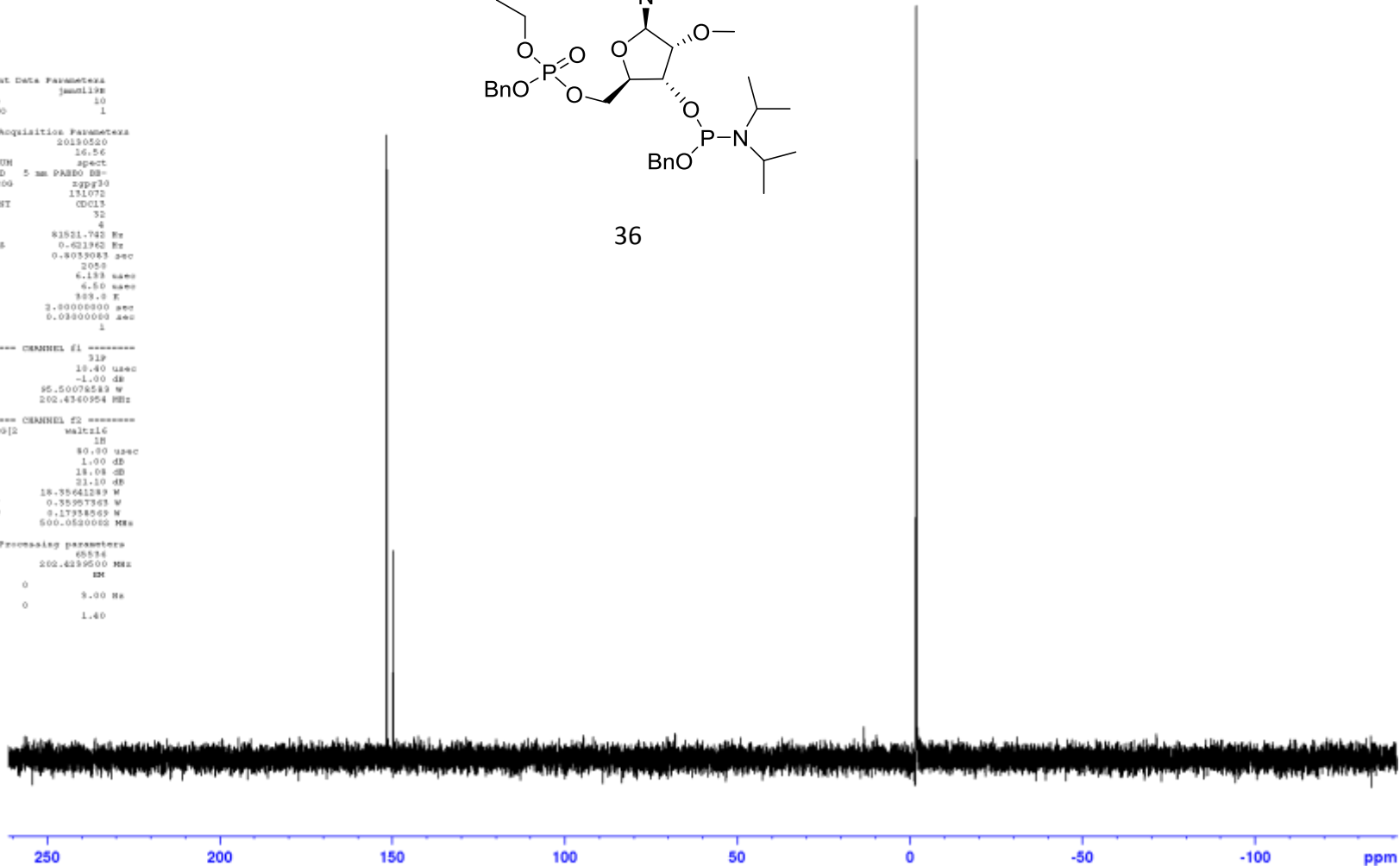
```
Current Data Parameters
NAME          jsm019a
EXPNO         10
PROCNO        1

F2 - Acquisition Parameters
Date_         20130520
Time          16:56
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            131072
SOLVENT       CDCl3
HG            32
DS            4
SWH           81521.742 Hz
FIDRES        0.621962 Hz
AQ            0.8035083 sec
RG            2058
DW            6.123 usec
DE            6.50 usec
TE            300.2 K
D1            3.0000000 sec
d11           0.0300000 sec
TE0           1

----- CHANNEL f1 -----
NUC1          31P
P1            18.40 usec
P11           -1.00 dB
P1LW         55.50078523 W
SFO1         202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRG2     mlticlc
NUC2          1H
PCPD2        80.00 usec
P12           1.00 dB
P1L2         19.08 dB
P1L3         21.10 dB
P1LW         18.35641289 W
P1L1W        0.35907363 W
P1L3W        0.17384569 W
SFO2         500.0520082 MHz

F2 - Processing parameters
SI            65536
SF           202.4239500 MHz
NCM           324
ZSN           0
LB            3.00 Hz
GB            0
PC            1.40
```



**¹³C NMR
126 MHz**

```

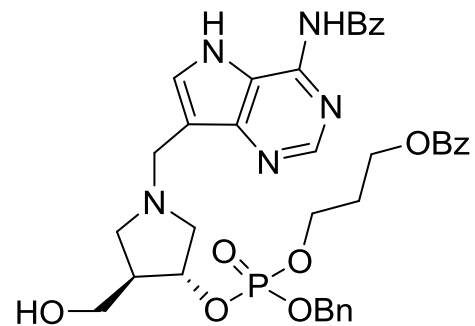
Current Data Parameters
NAME      Jmgg218
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    20150515
Time     15:32
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SWH      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DM       18.000 usec
DE       10.00 usec
TE       305.0 K
D3       8.58000000 sec
D11      8.09000000 sec
TEO      1

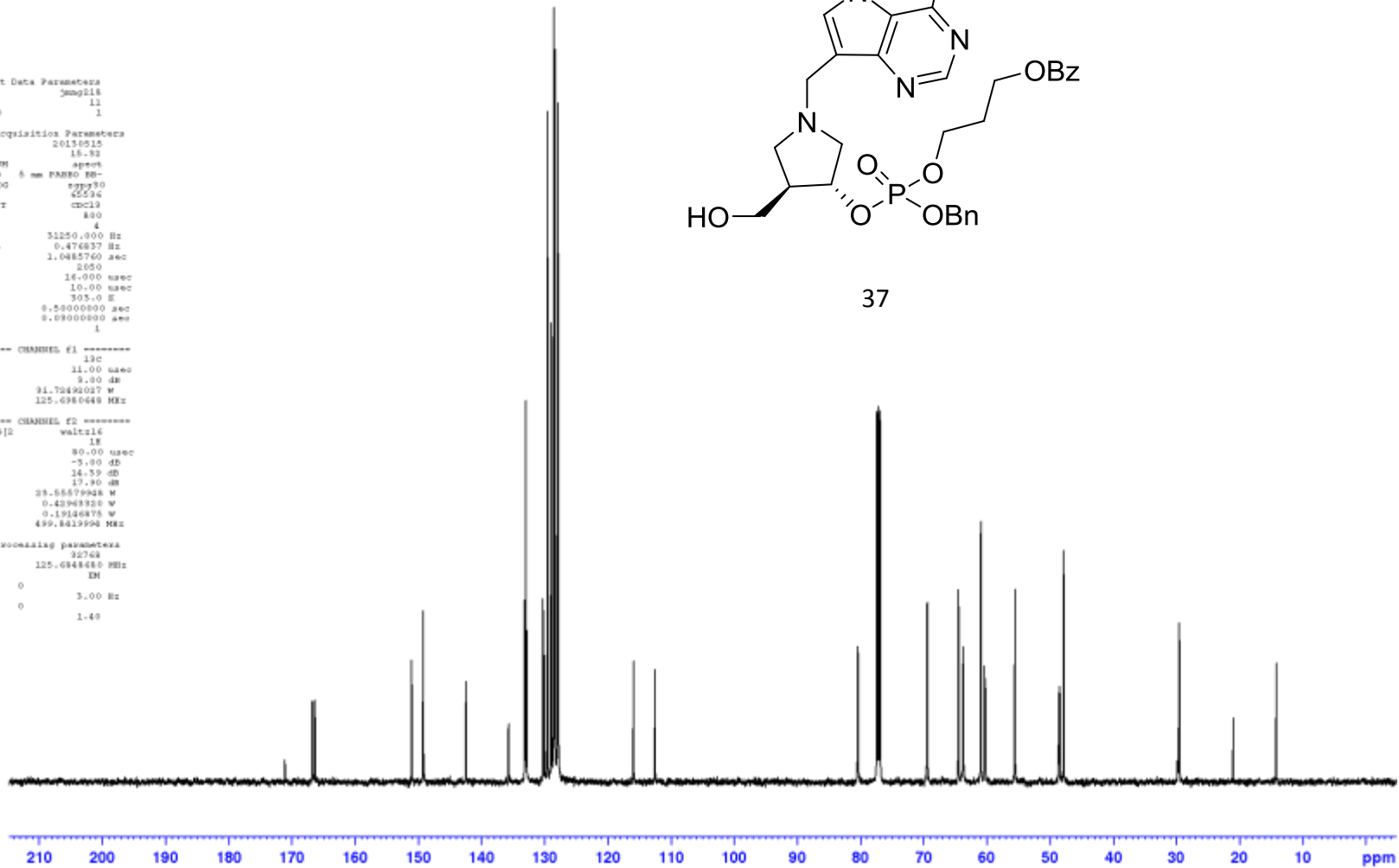
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.00 dB
P11M     31.7049027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.00 dB
P112     14.39 dB
P113     17.90 dB
P12M     29.65579948 W
P112M    0.42969320 W
P113M    0.19186875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCM      IM
ASD      0
LB       3.00 Hz
GB       0
PC       1.49
  
```



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**³¹P NMR
202 MHz**

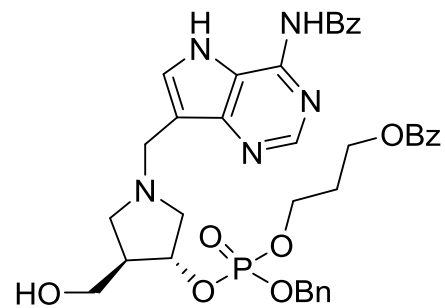
```
Current Data Parameters
NAME      3mgp218
EXPNO    12
PROCNO    1

F2 - Acquisition Parameters
Date_    20180615
Time     15:47
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        134072
SOLVENT   cdcl3
NS         52
DS         4
SFO       61521.742 Hz
FIDRES    0.621962 Hz
AQ         0.8039083 sec
RG         2550
DW         6.133 usec
DE         10.00 usec
TE        303.0 K
D3         2.00000000 sec
D11        0.09000000 sec
TEO        1
```

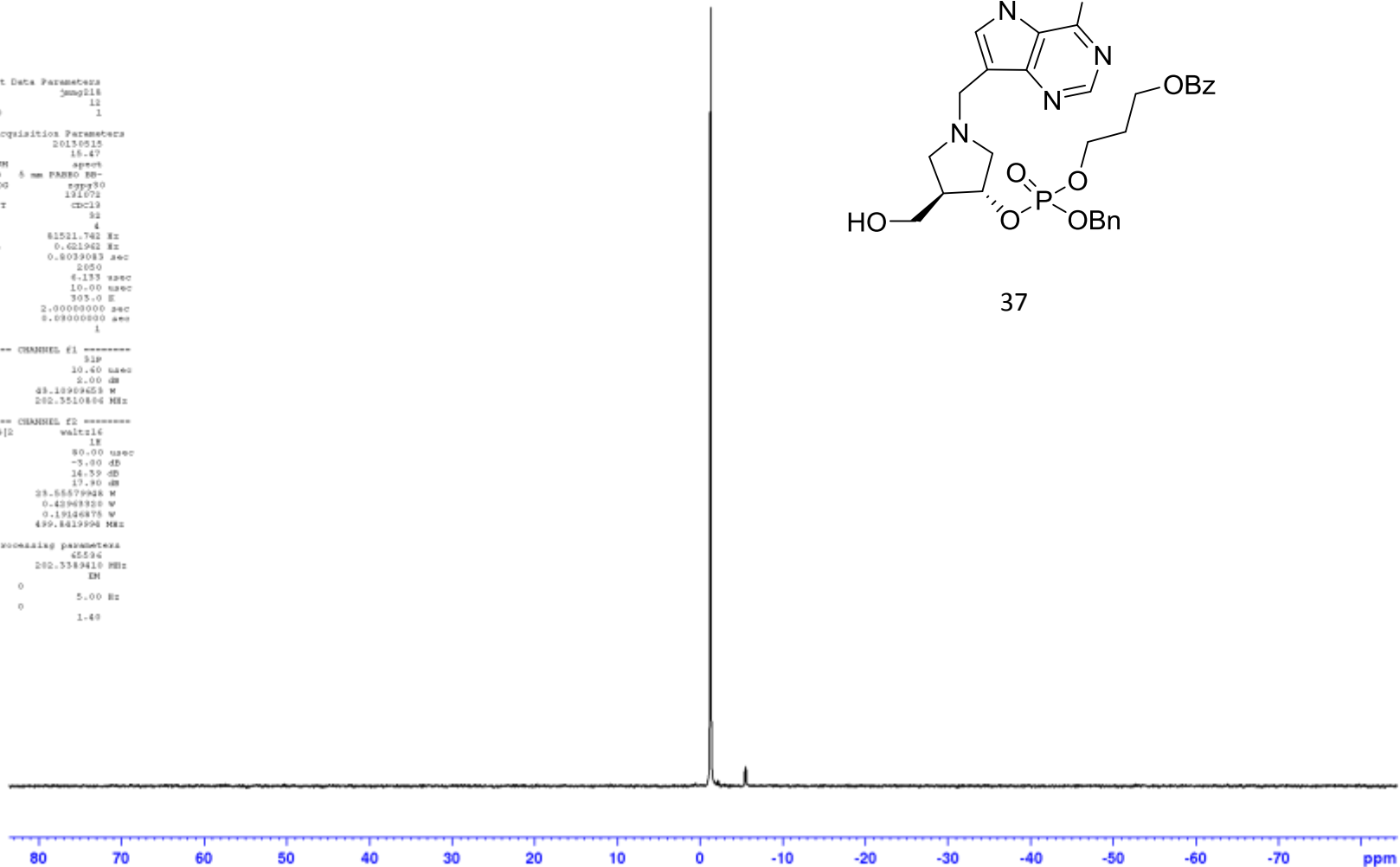
```
----- CHANNEL F1 -----
NUC1      31P
P1         10.40 usec
P11        5.00 dB
P11M       43.18969458 W
SFO1       202.3510846 MHz
```

```
----- CHANNEL F2 -----
CPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
P12        -5.00 dB
P112       14.39 dB
P113       17.80 dB
P12M       29.65579948 W
P112M      0.43968320 W
P113M      0.19186875 W
SFO2       499.8419904 MHz
```

```
F2 - Processing parameters
SI         65536
SF         202.3389410 MHz
MCW        IM
SAB        0
LB         5.00 Hz
GB         0
PC         1.49
```



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¹³C NMR
126 MHz

```

Current Data Parameters
NAME      jmm0219
EXPNO     21
PROCNO    1

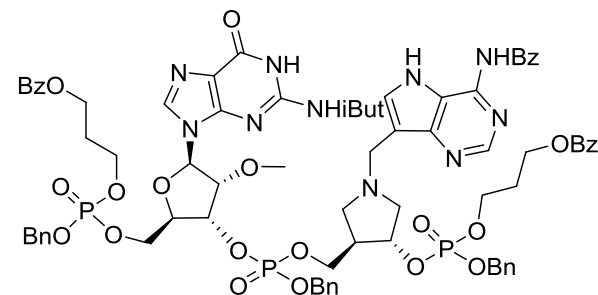
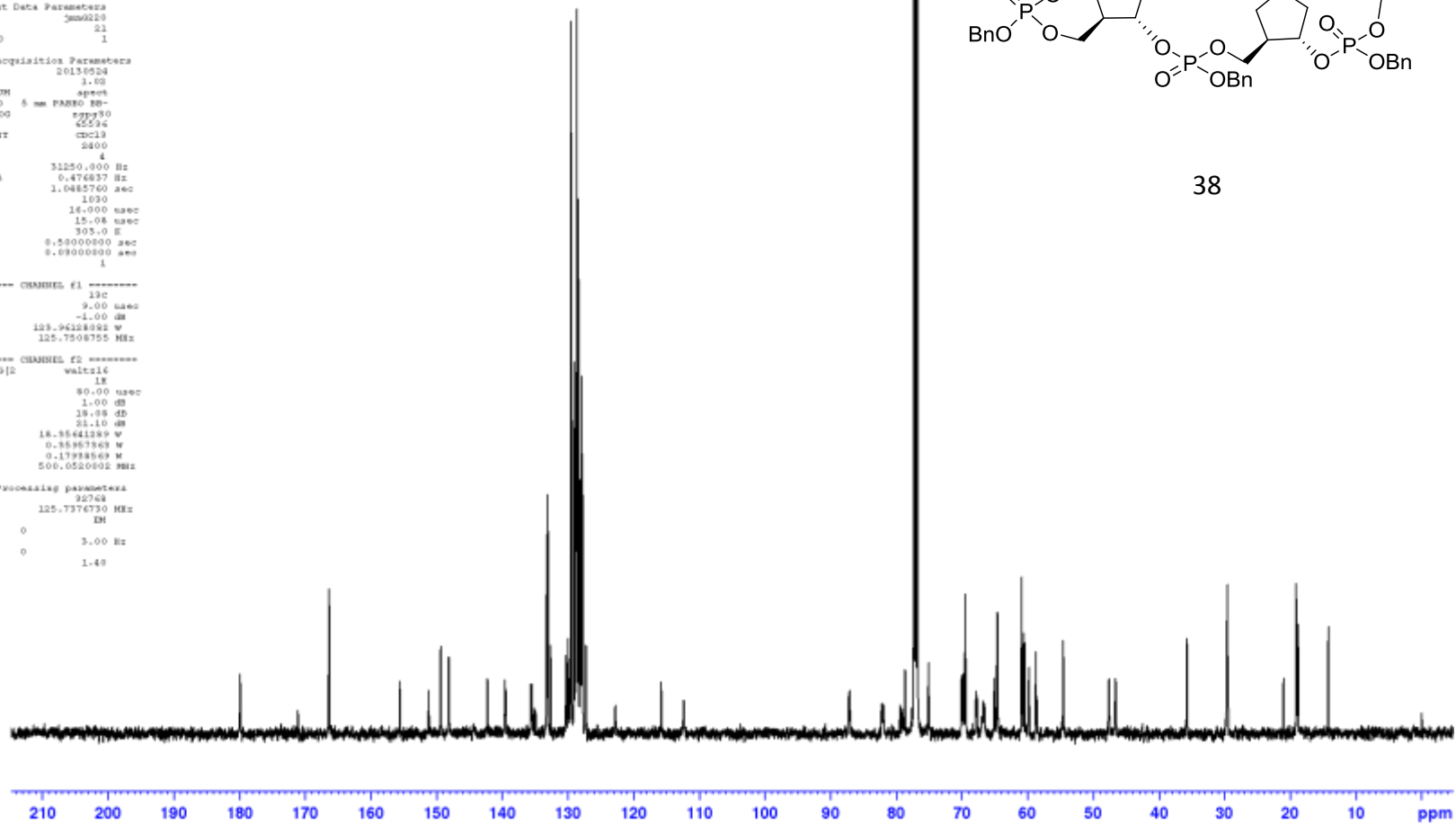
F2 - Acquisition Parameters
Date_     20130524
Time      1:00
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   cpd13
NS        2400
DS        4
SFO       31250.000 Hz
FIDRES    0.474637 Hz
AQ        1.0485760 sec
RG        1030
DW        18.000 usec
DE        15.08 usec
TE        303.0 K
D3        8.58000000 sec
D11       8.09000000 sec
TEO       1

----- CHANNEL F1 -----
NUC1      13C
P1        9.00 usec
P11       -1.00 dB
P11W     123.9428884 W
SFO1      125.7506755 MHz

***** CHANNEL F2 *****
CPDPRG2   waltz16
NUC2      1H
PCPD2     80.00 usec
P12       1.00 dB
P112     19.98 dB
P113     21.10 dB
P12W     18.95441289 W
P112W    0.35867363 W
P113W    0.17983663 W
SFO2     500.0520002 MHz

F2 - Processing parameters
SI        32768
SF        125.7376730 MHz
MCM       EM
ASB       0
LB        3.00 Hz
GB        0
PC        1.49

```



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**³¹P NMR
202 MHz**

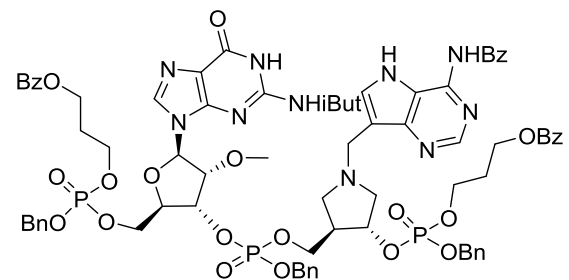
```
Current Data Parameters
NAME      jmac220
EXPNO    14
PROCNO   1

F2 - Acquisition Parameters
Date_    20130524
Time     4.35
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       131072
SOLVENT  CDCl3
NS       32
DS       4
SWH      81521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8035083 sec
RG       2058
DW       6.123 usec
DE       6.50 usec
TE       300.2 K
D1       3.0000000 sec
d11      0.0200000 sec
TE0      1

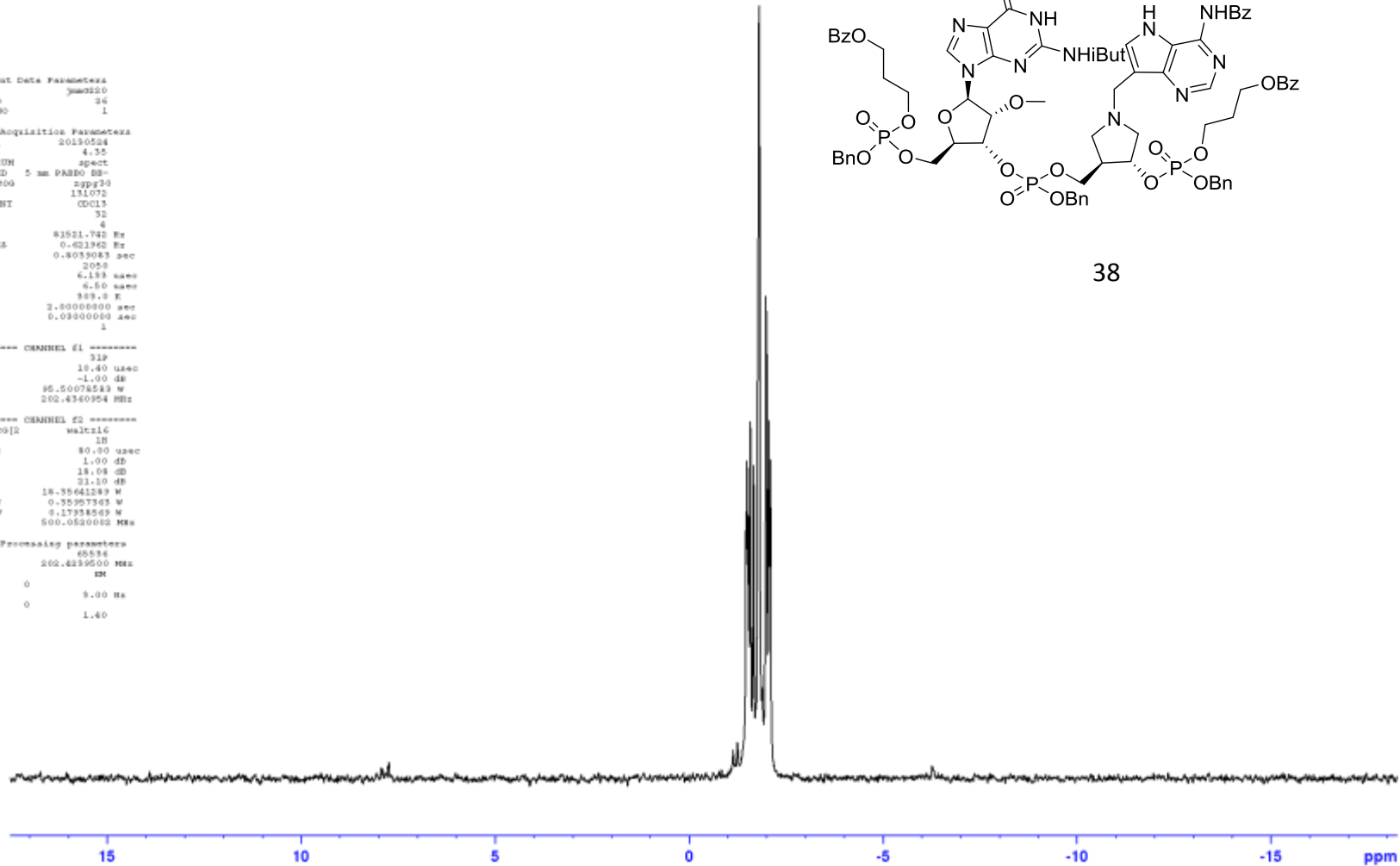
===== CHANNEL f1 =====
NUC1     31P
P1       18.40 usec
P11      -1.00 dB
P1LM     55.50078523 W
SFO1     202.4340954 MHz

===== CHANNEL f2 =====
CHOPPRG2  mltiplc
NUC2      1H
PCPD2    80.00 usec
P12       1.00 dB
P112     19.08 dB
P113     21.10 dB
P12M     18.35641289 W
P112M    0.35907363 W
P113M    0.17348569 W
SFO2     500.0520082 MHz

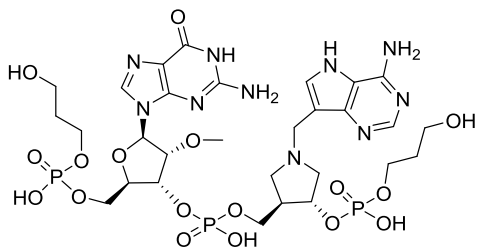
F2 - Processing parameters
SI       65536
SF       202.4239500 MHz
NCM      324
ZSN      0
LB       3.00 Hz
GB       0
PC       1.40
```



38



¹H NMR
500 MHz



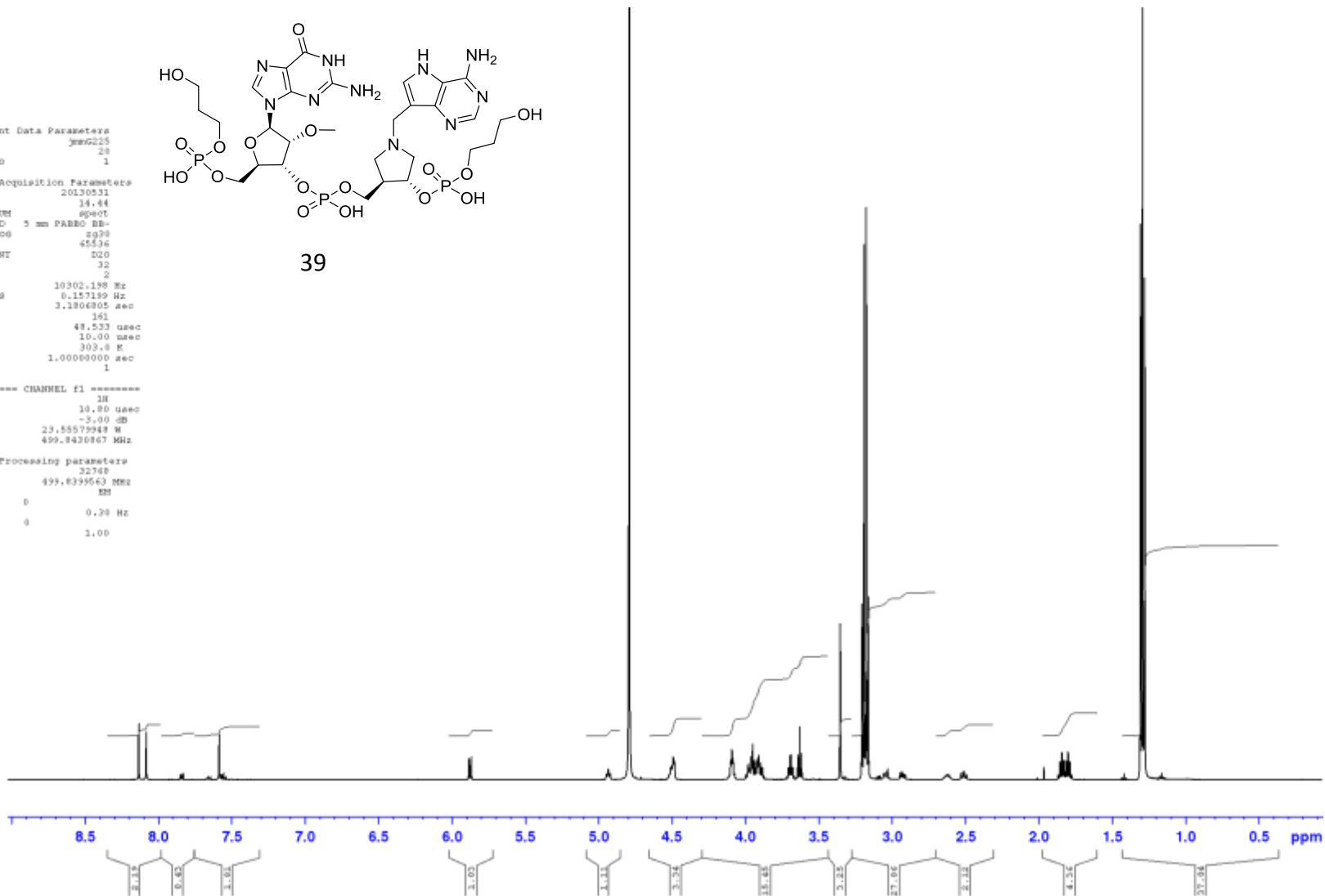
39

Current Data Parameters
NAME JmmG225
EXPNO 29
PROCNO 1

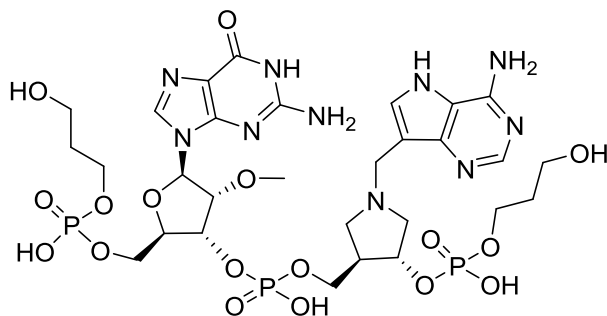
F2 - Acquisition Parameters
Date_ 20130531
Time 18.44
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 45536
SOLVENT H2O
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157199 Hz
AQ 3.1806805 sec
RG 361
CW 48.533 usec
DE 10.00 usec
TE 303.4 K
D1 1.0000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 18.00 usec
PL1 -3.00 dB
PL12 23.55579943 M
RFOL 499.8420867 MHz

F2 - Processing parameters
SI 32768
SF 499.8399663 MHz
NM 8H
SSB 0
LA 0.39 Hz
GB 0
PC 1.00



**¹³C NMR
126 MHz**



39

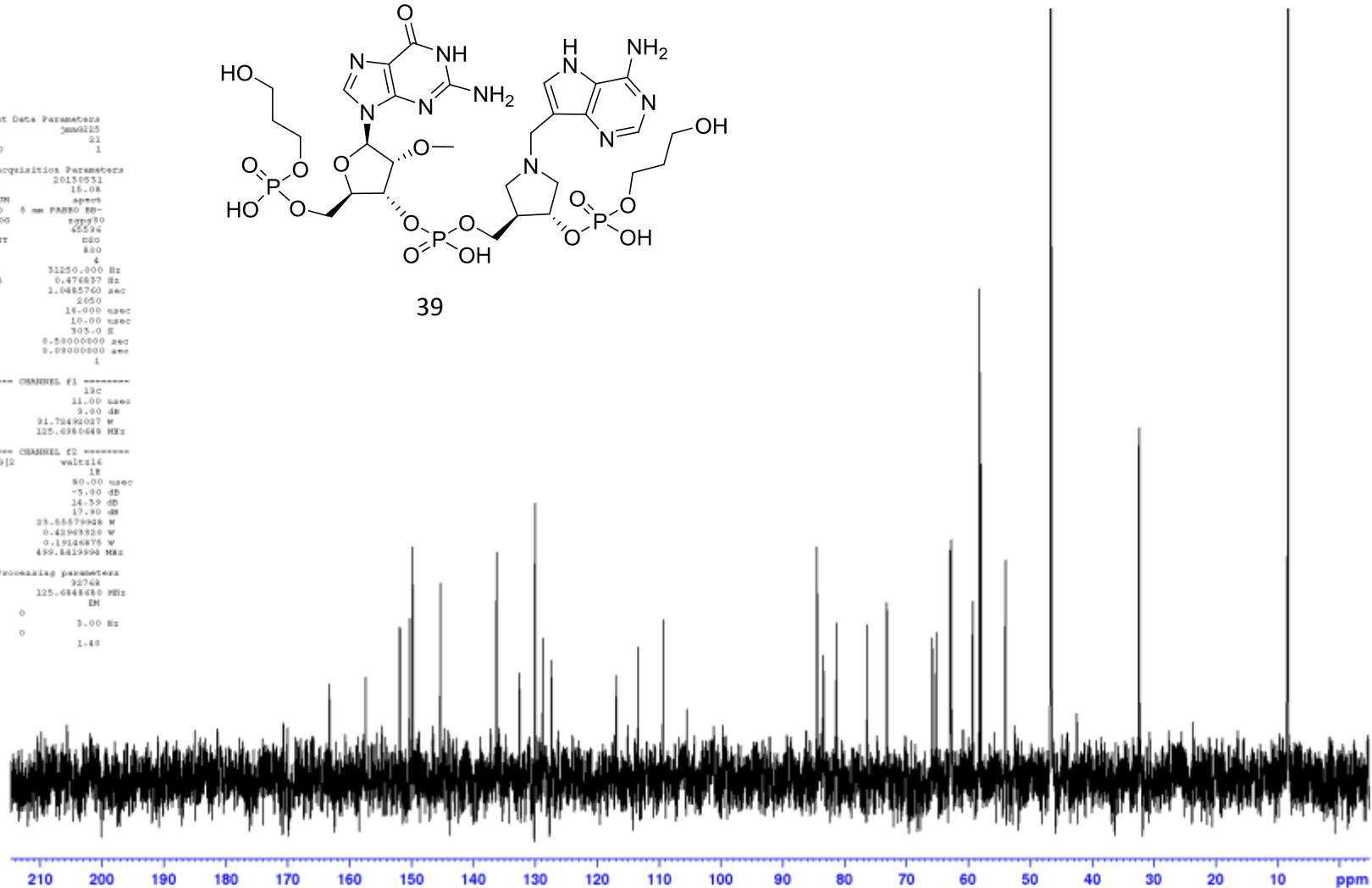
```
Current Data Parameters
NAME      jsm0215
EXPNO    21
PROCNO   1

F2 - Acquisition Parameters
Date_    20150531
Time     15.08
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  D2O
NS       830
DS       4
SWH      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DW       18.000 usec
DE       10.000 usec
TE       303.0 K
D3       8.59000000 sec
D31      8.59000000 sec
TEO      1

----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.00 dB
P11W     31.7049027 W
SFO1     125.0984648 MHz

***** CHANNEL f2 *****
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.00 dB
P112     14.39 dB
P113     17.90 dB
P12W     29.65579948 W
P112W    0.43968320 W
P113W    0.19166875 W
SFO2     499.8419994 MHz

F2 - Processing parameters
SI       32768
SF       125.0984648 MHz
MCM      EM
ASB      0
LB       3.00 Hz
GB       0
PC       1.49
```



³¹P NMR
202 MHz

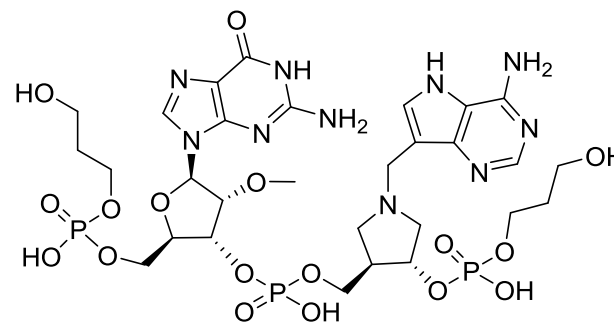
Current Data Parameters
NAME jsm025
EXPNO 24
PROCNO 1

F2 - Acquisition Parameters
Date_ 20150531
Time 15:34
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 32
DS 4
SWH 61521.742 Hz
FIDRES 0.621962 Hz
AQ 0.8039083 sec
RG 250
DW 6.133 usec
DE 10.00 usec
TE 305.0 K
D3 2.0000000 sec
D11 0.0900000 sec
TEO 1

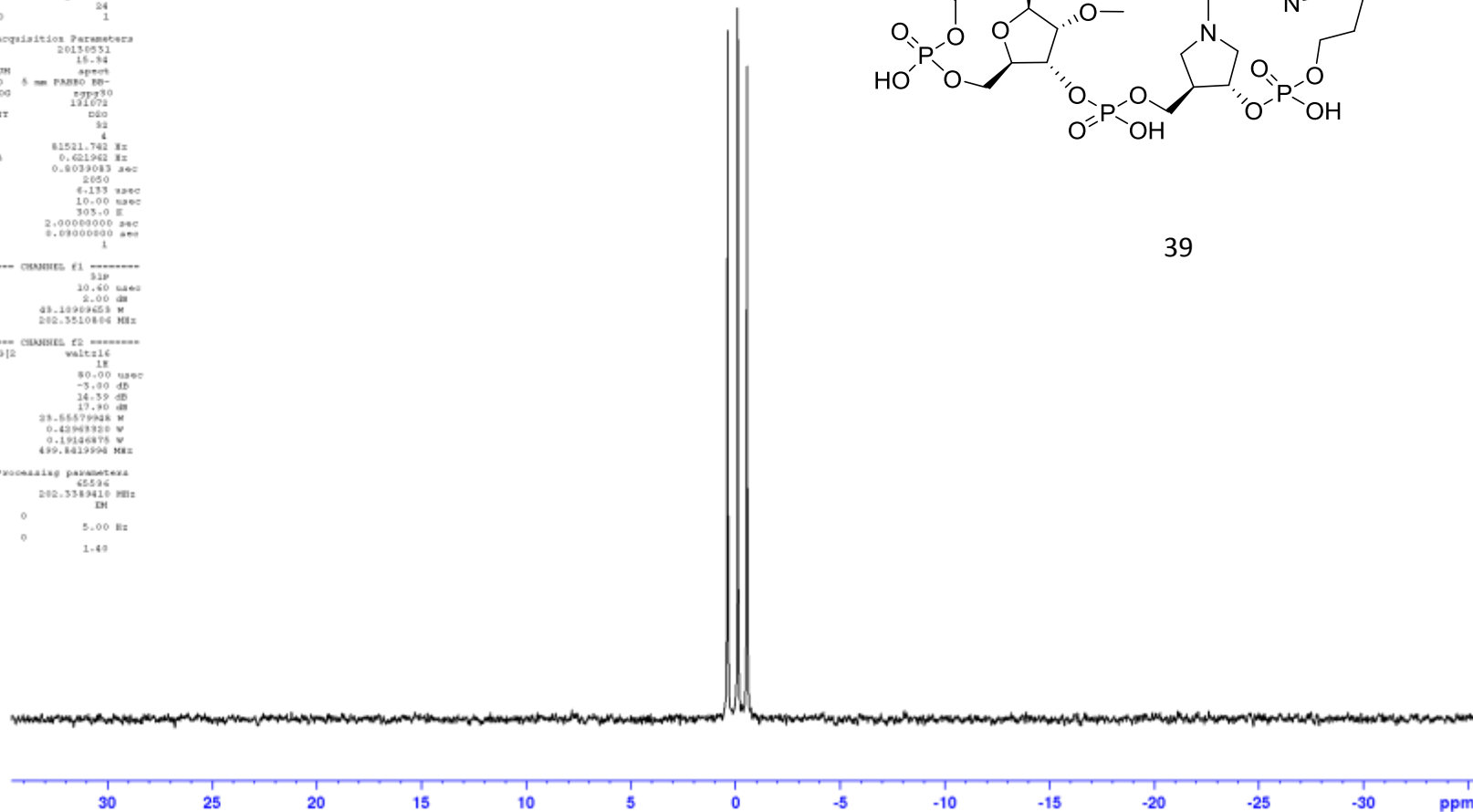
----- CHANNEL F1 -----
NUC1 ³¹P
P1 20.40 usec
P11 5.00 dB
PL1W 43.1896925 W
SFO1 202.3510846 MHz

***** CHANNEL F2 *****
CHOPPRF2 waltz16
NUC2 ¹H
PCPD2 80.00 usec
P12 -5.00 dB
P112 14.59 dB
P113 17.80 dB
PL1W 29.65579948 W
PL12W 0.43968320 W
PL13W 0.19166875 W
SFO2 499.8419994 MHz

F2 - Processing parameters
SI 65596
SF 202.3389410 MHz
MEM 1M
SAB 0
LB 5.00 Hz
GB 0
PC 1.49



39



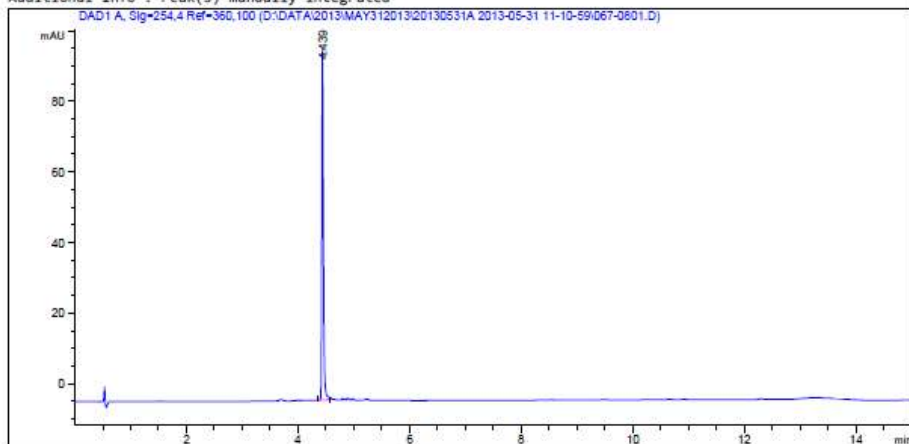
HPLC

Data File D:\DATA\2013\MAY312013\20130531A 2013-05-31 11-10-59\067-0801.D
 Sample Name: jmg225f15_3

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    8
Acq. Instrument : LCMS                       Location  : Vial 67
Injection Date  : 5/31/2013 11:11:58 AM      Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method    : D:\DATA\MAY312013\20130531A 2013-05-31 11-10-59\P1 T15 0-30ACN_ WFA MSJM.M
Last changed   : 5/31/2013 11:10:59 AM by SYSTEM
Analysis Method: D:\DATA\2013\MAY312013\20130531A 2013-05-31 11-10-59\P1 T15 0-30ACN_ WFA MSJM.M
                                           M (Sequence Method)
Last changed   : 5/31/2013 11:10:59 AM by SYSTEM
Additional Info: Peak(s) manually integrated
  
```



Area Percent Report

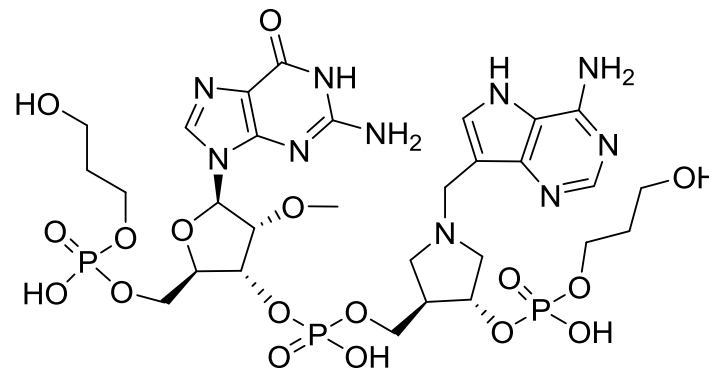
```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

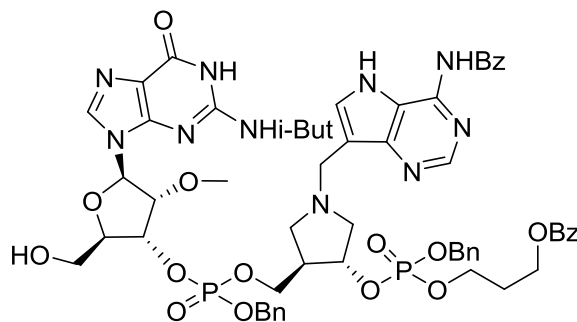
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.439	BV	0.0304	200.38489	99.75817	100.0000

Totals : 200.38489 99.75817



239

¹³C NMR
126 MHz



40

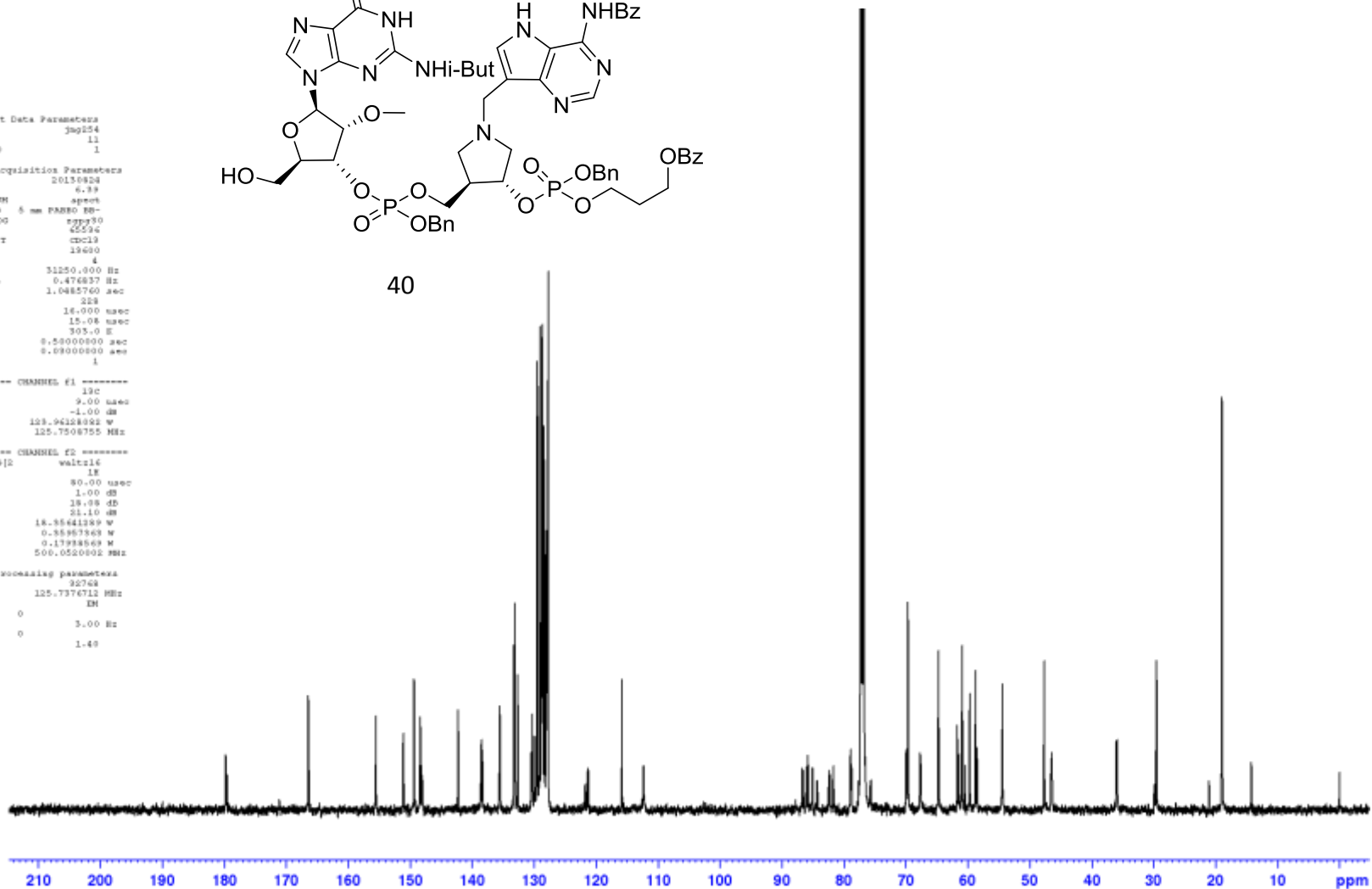
```
Current Data Parameters
NAME          jag254
EXPNO         11
PROCNO        1

F2 - Acquisition Parameters
Date_         20150924
Time          6.39
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       cpd13
NS            19680
DS            4
SWH           31250.000 Hz
FIDRES        0.476837 Hz
AQ            1.0485760 sec
RG            228
DW            16.000 usec
DE            15.08 usec
TE            305.0 K
D3            8.59000000 sec
D11           8.09000000 sec
TEO           1

----- CHANNEL f1 -----
NUC1          13C
P1            9.00 usec
P11           -1.00 dB
P11W         128.9428884 W
SFO1          125.7508755 MHz

***** CHANNEL f2 *****
CPDPRG2       waltz16
NUC2          1H
PCPD2         80.00 usec
P12           1.00 dB
P12W         19.38 dB
P13          21.10 dB
P13W         18.95441289 W
P13M         0.35967363 W
P13W         0.17983669 W
SFO2          500.0520002 MHz

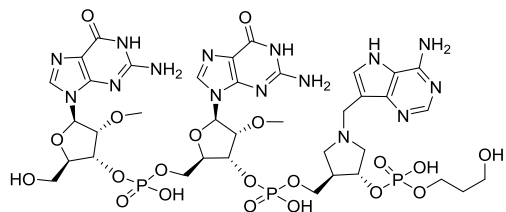
F2 - Processing parameters
SI            32768
SF           125.7376712 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.49
```



¹H NMR
500 MHz

Current Data Parameters
 NAME Jmg266
 EXPNO 10
 PROCNO 1

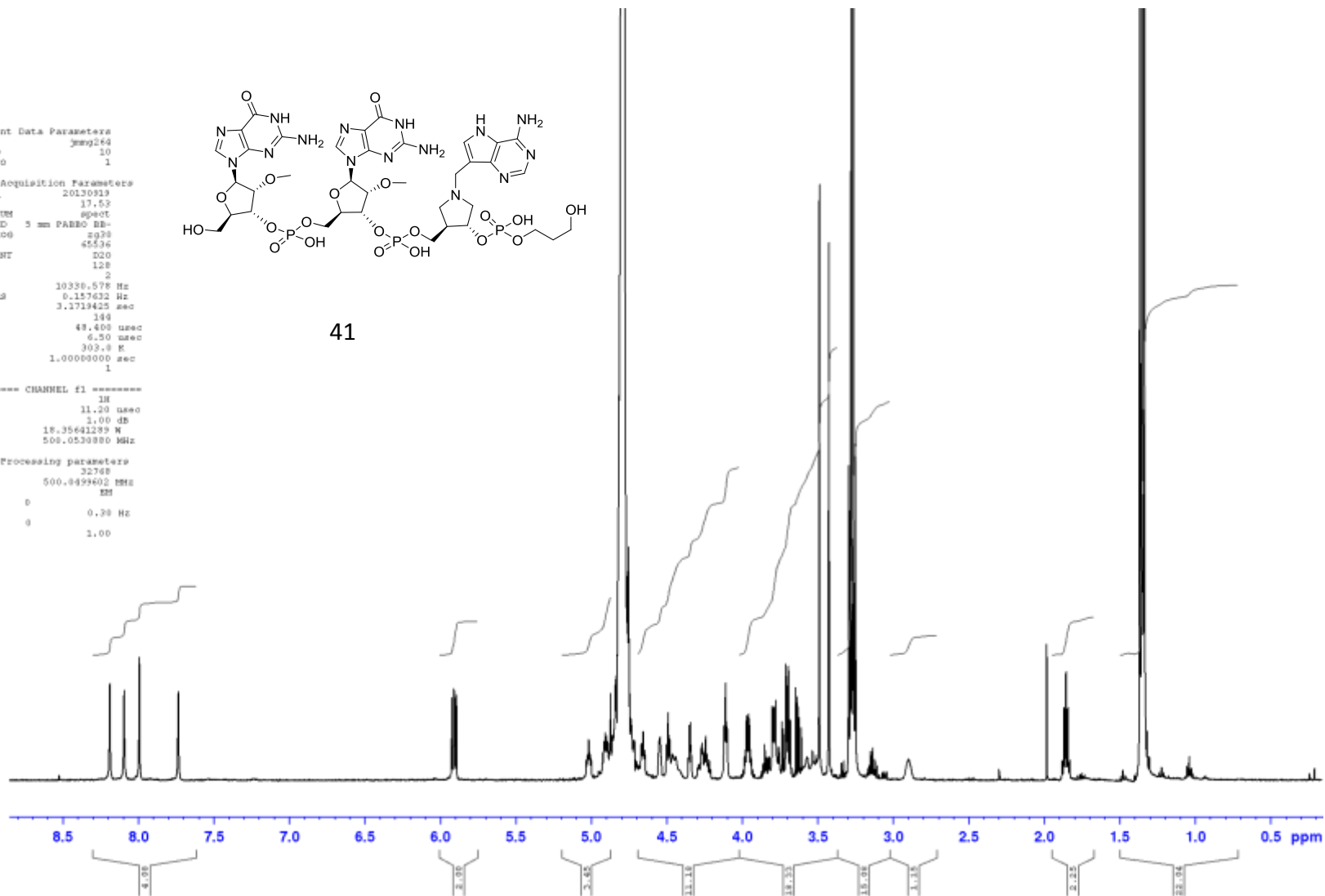
F2 - Acquisition Parameters
 Date_ 2013019
 Time 17:53
 INSTRUM spect
 PROBRD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 45536
 SOLVENT H2O
 NS 128
 DS 2
 SWH 10336.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719425 sec
 RG 344
 CW 49.409 usec
 DE 6.50 usec
 TE 303.2 K
 DL 1.0000000 sec
 TDO 1



41

----- CHANNEL f1 -----
 NUCL 1H
 P1 11.20 usec
 P11 1.00 dB
 PL1W 18.35641289 W
 SFO1 500.0530880 MHz

F2 - Processing parameters
 SI 32768
 SF 500.0499602 MHz
 NUC1 1H
 SFO 500.0530880 MHz
 LA 0.39 Hz
 GB 0
 PC 1.00



**³¹P NMR
202 MHz**

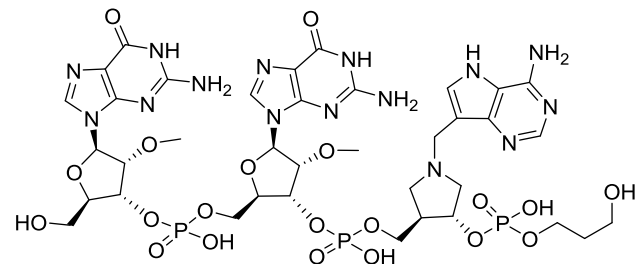
```
Current Data Parameters
NAME          3mg264
EXPNO        12
PROCNO       1

F2 - Acquisition Parameters
Date_        2013019
Time         19:47
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           131072
SOLVENT      D2O
RG           300
AQ           1.60
DS           4
SWH          81921.742 Hz
FIDRES       0.621962 Hz
AQ           0.8039083 sec
RG           2058
DE           6.123 usec
TE           4.50 usec
TE           898.9 K
D1           3.80000000 sec
D11          0.09900000 sec
TE0          1

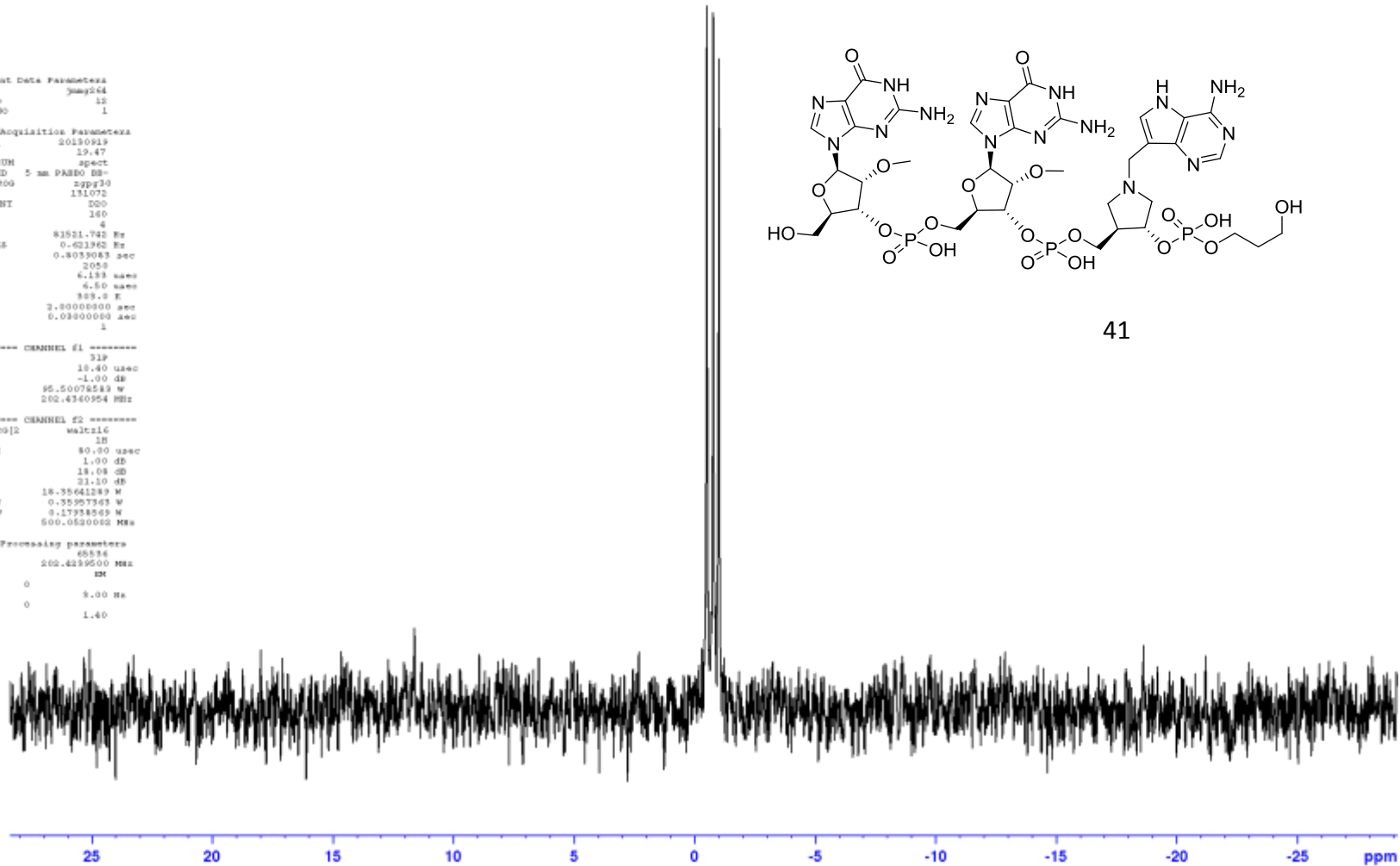
----- CHANNEL f1 -----
NUC1          31P
P1           18.40 usec
P11          -1.00 dB
P1LW        55.50078583 W
SFO1         202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRG2     mltiplc
NUC2          1H
PCPD2        80.00 usec
P12          1.00 dB
P1L2         19.08 dB
P1L3         21.10 dB
P1LW         18.35641289 W
P1L2W        0.35907363 W
P1L3W        0.17948569 W
SFO2         500.0520062 MHz

F2 - Processing parameters
SI           65536
SF           202.4239500 MHz
NCM          324
ZSN          0
LB           3.00 Hz
GB           0
PC           1.40
```



41

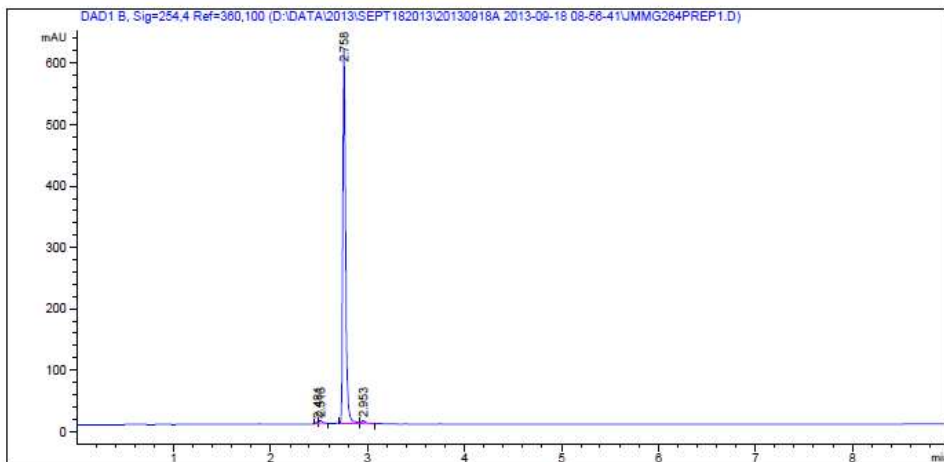


HPLC

Data File D:\DATA\2013\SEPT182013\20130918A 2013-09-18 08-56-41\JMMG264PREP1.D
 Sample Name: jmmg264prep

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : LCMS                      Location  : Vial 32
Injection Date  : 9/18/2013 9:28:16 AM      Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method    : D:\DATA\SEPT182013\20130918A 2013-09-18 08-56-41\P1 T9 AW BM FA 5-50M G5H1 3-15.M
Last changed   : 9/18/2013 8:56:41 AM by SYSTEM
Analysis Method : D:\DATA\2013\SEPT182013\20130918A 2013-09-18 08-56-41\P1 T9 AW BM FA 5-50M G5H1 3-15.M (Sequence Method)
Last changed   : 9/18/2013 8:56:41 AM by SYSTEM
Method Info    : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-5min 5-50%B; T5-6 min 50%B; Flow 0.5 mL/min; m/z 100-1000
  
```



Area Percent Report

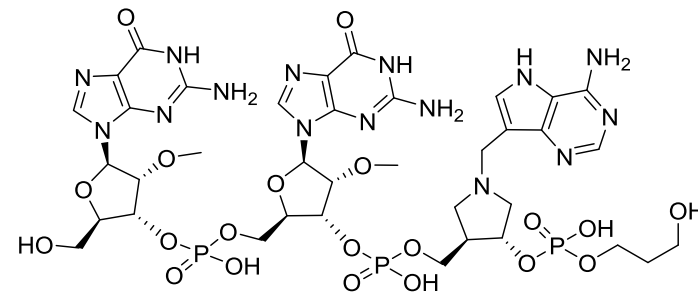
```

=====
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

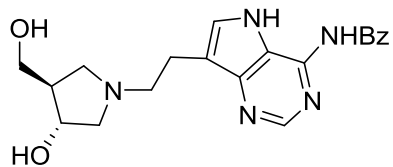
Data File D:\DATA\2013\SEPT182013\20130918A 2013-09-18 08-56-41\JMMG264PREP1.D
 Sample Name: jmmg264prep

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.481	BV	0.0247	6.25826	3.90068	0.4869
2	2.516	VB	0.0397	14.26352	5.08144	1.1096
3	2.758	VV	0.0309	1248.91406	609.41754	97.1602
4	2.953	VB	0.0476	15.98195	4.70608	1.2433
Totals :				1285.41780	623.10574	



41

¹H NMR
500 MHz



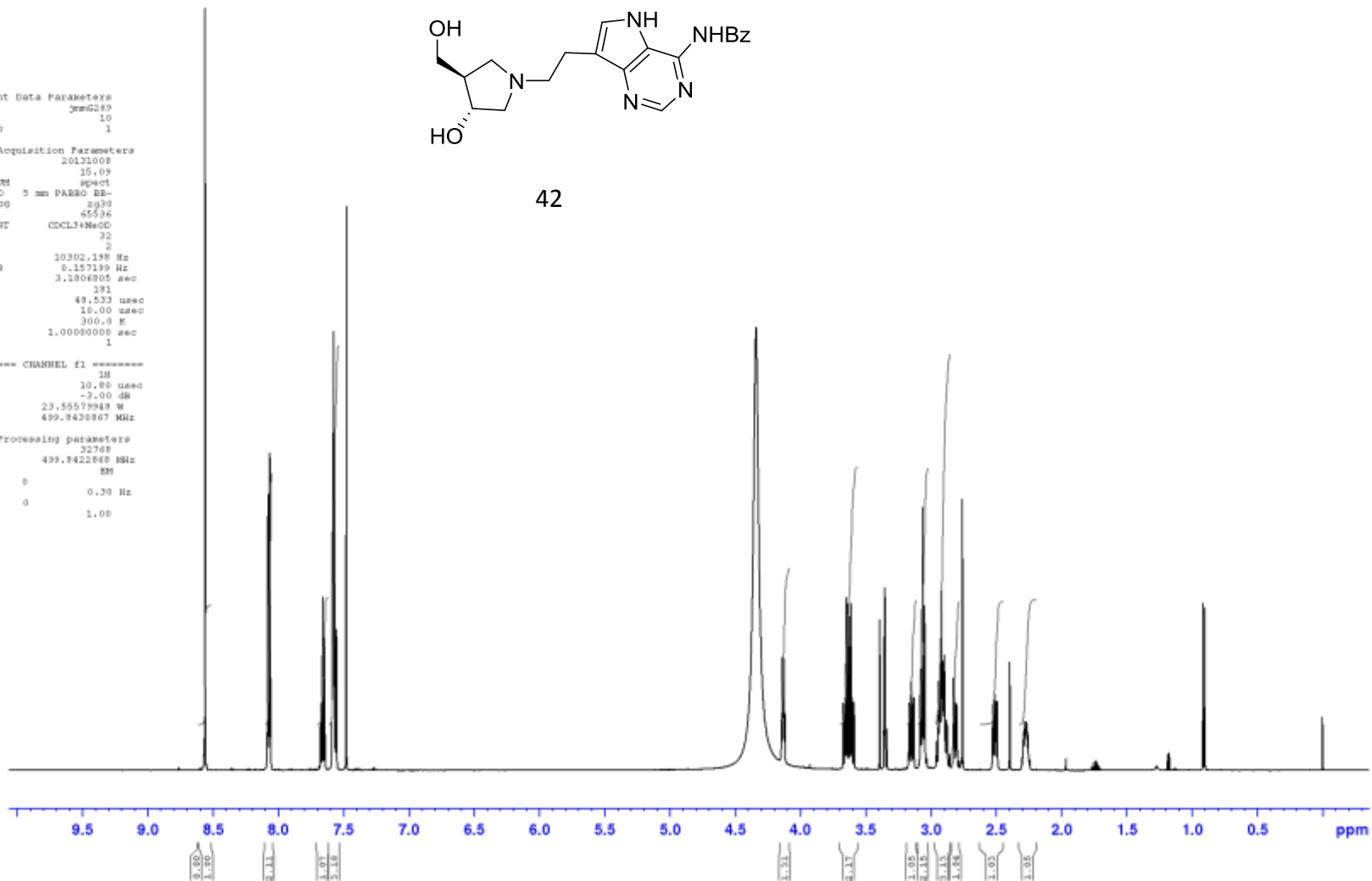
42

Current Data Parameters
NAME Jm0269
EXPNO 10
PROCNO 1

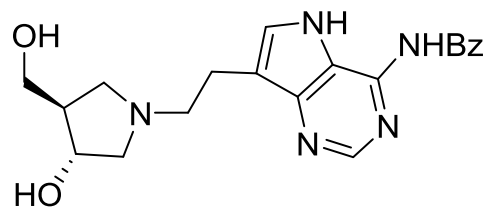
F2 - Acquisition Parameters
Date_ 20131008
Time 15.09
INSTRUM spect
PROBHD 5 mm PABBO BBO
PULPROG zgpg30
TD 65536
SOLVENT CDCl3+MeOD
NS 32
DS 2
SWH 10302.138 Hz
FIDRES 0.157139 Hz
AQ 3.1804805 sec
RG 321
CW 43.523 usec
DE 10.00 usec
TE 300.0 K
D1 1.0000000 sec
YD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 10.00 usec
PL1 -2.00 dB
FLIN 23.55579948 M
SFO1 499.8420867 MHz

F2 - Processing parameters
SI 32768
SF 499.8422868 MHz
NUC 1H
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz



42

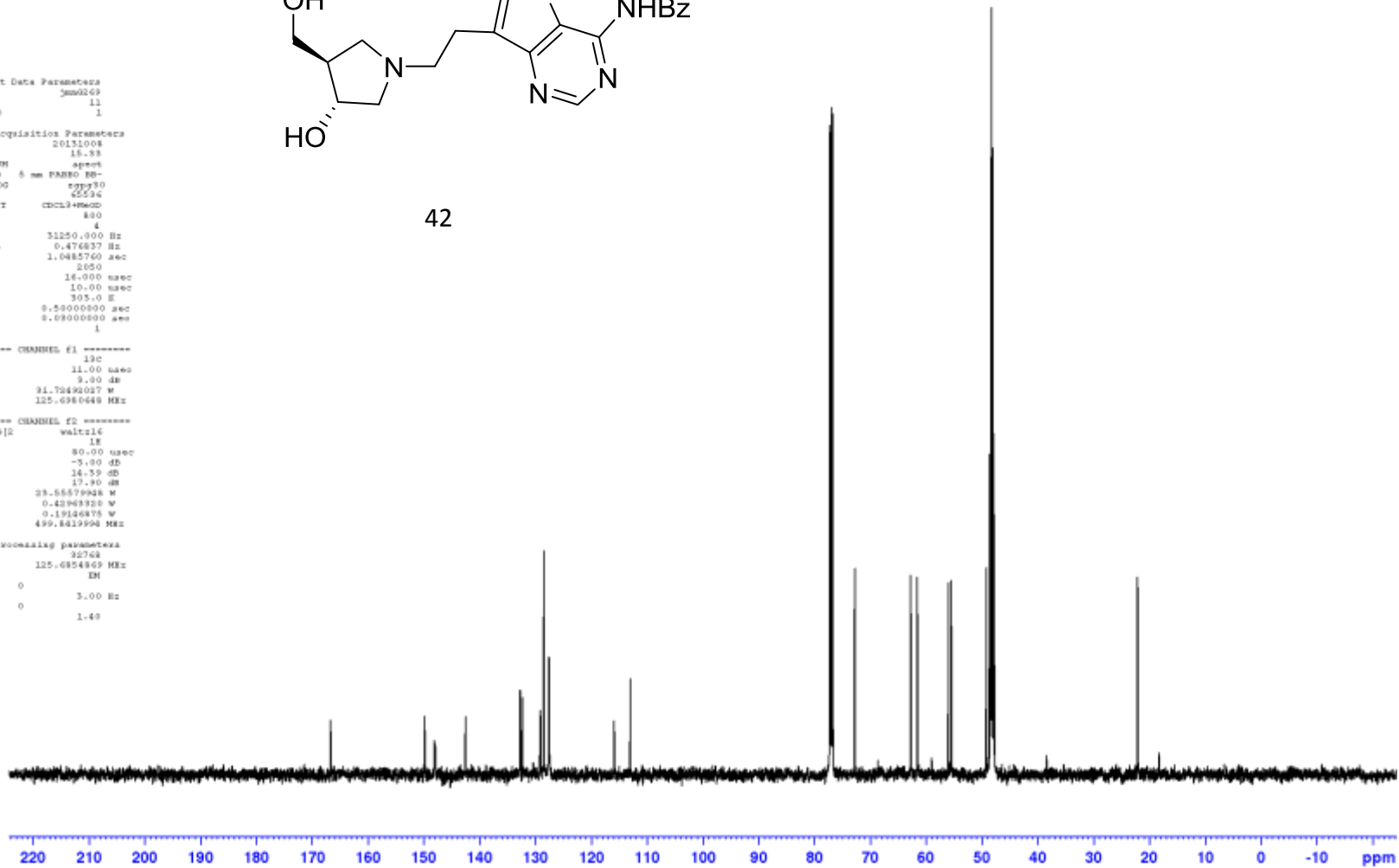
```
Current Data Parameters
NAME          jsm0269
EXPNO        11
PROCNO       1

F2 - Acquisition Parameters
Date_        20131004
Time         15.33
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           65536
SOLVENT      CDCl3+meqo
NS           830
DS           4
SWH          31250.000 Hz
FIDRES      0.476837 Hz
AQ          1.0485760 sec
RG          2050
DW          18.000 usec
DE          10.000 usec
TE          303.0 K
D3          0.58000000 sec
D11         0.09000000 sec
TEO         1

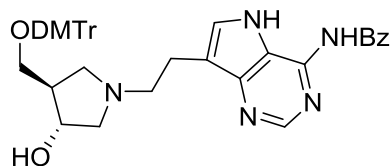
----- CHANNEL f1 -----
NUC1         13C
P1          11.00 usec
P11         9.00 dB
P11M       31.7049027 W
SFO1        125.0984648 MHz

***** CHANNEL f2 *****
CPOFPRG2    waltz16
NUC2         1H
PCPD2       80.00 usec
P12         -3.00 dB
P112        14.39 dB
P113        17.90 dB
P12M       29.65579928 W
P112M      0.43969320 W
P113M      0.19166875 W
SFO2        499.8419994 MHz

F2 - Processing parameters
SI          32768
SF          125.0954869 MHz
MCM         EM
ASB         0
LB          3.00 Hz
GB          0
PC          1.49
```



¹H NMR
500 MHz



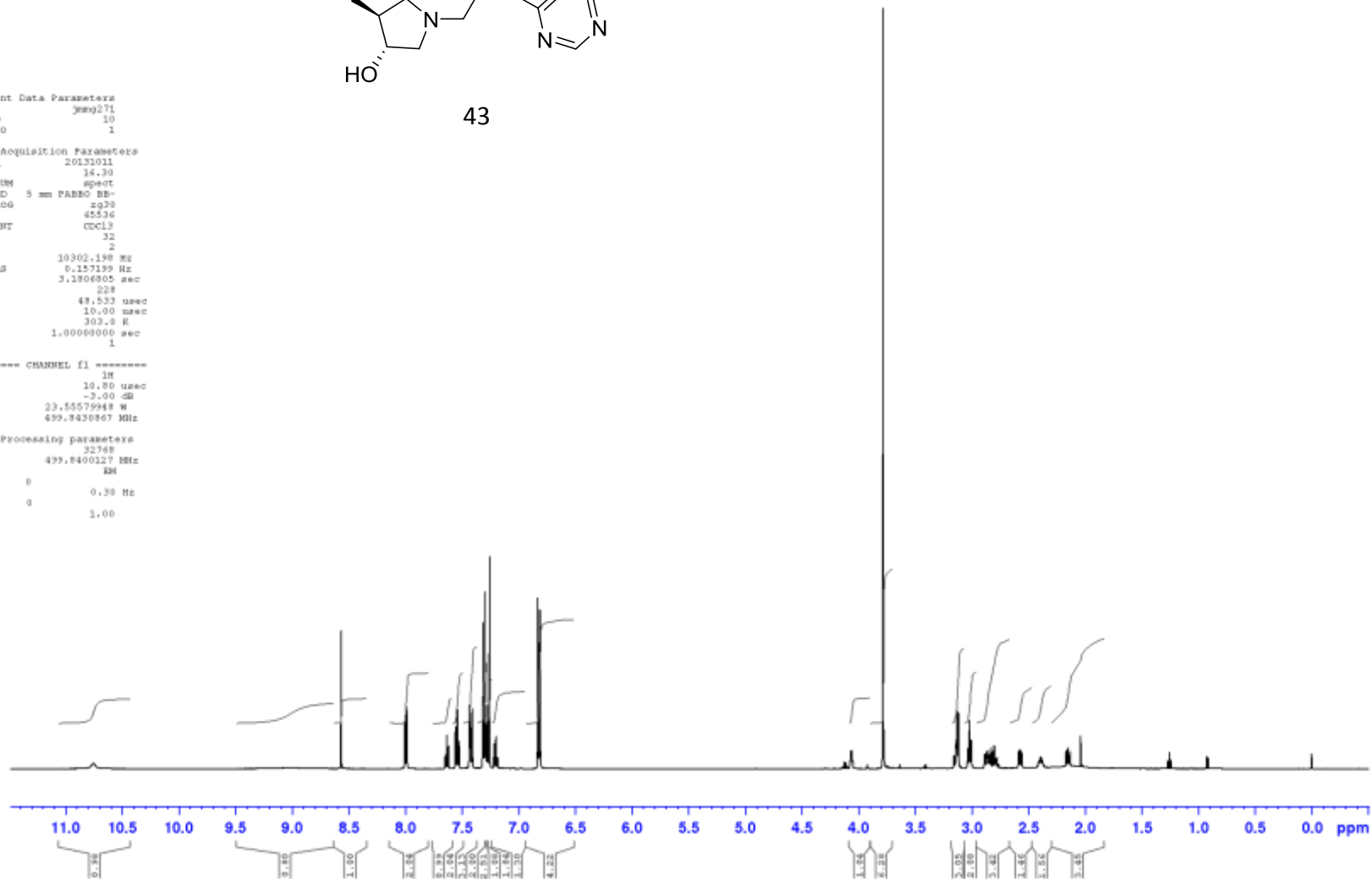
43

Current Data Parameters
NAME jmg0271
EXPNO 10
PROCNO 1

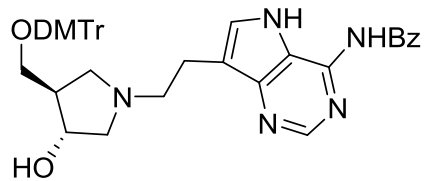
F2 - Acquisition Parameters
Date_ 20131011
Time 14.30
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT CDCl3
NS 32
DS 2
SWH 10302.198 Hz
FIDRES 0.157139 Hz
AQ 3.1806305 sec
RG 228
DM 43.533 usec
DE 10.00 usec
TE 302.8 K
D1 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 -3.00 dB
PL1W 23.55579948 W
SFO1 499.8420867 MHz

F2 - Processing parameters
S2 32768
SF 499.8400127 MHz
WDW EM
SSB 0
LB 0.39 Hz
GB 0
FC 1.00



¹³C NMR
126 MHz



43

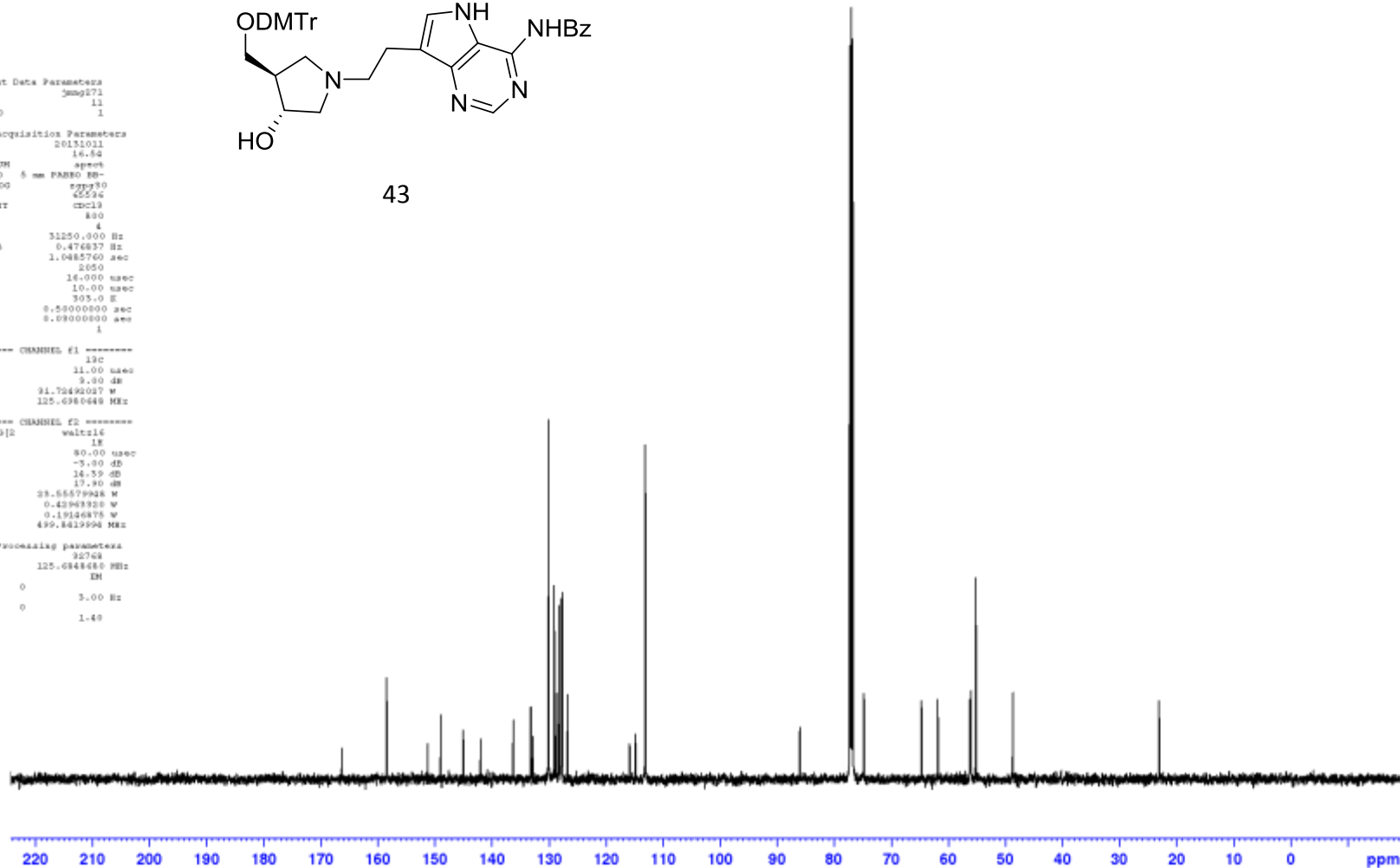
```
Current Data Parameters
NAME      Jmg0271
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20131011
Time      16.52
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD         65536
SOLVENT   cpd13
NS         830
DS         4
SWH        31250.000 Hz
FIDRES    0.476837 Hz
AQ         1.0485760 sec
RG         2050
DW         16.000 usec
DE         10.000 usec
TE         303.0 K
D3         0.59000000 sec
D11        0.09000000 sec
TEO        1

----- CHANNEL f1 -----
NUC1       13C
P1         11.00 usec
P11        9.00 dB
P11M       31.7049027 W
SFO1       125.0980648 MHz

***** CHANNEL f2 *****
CPDPRG2    waltz16
NUC2       1H
PCPD2     80.00 usec
P12        -3.00 dB
P112       14.39 dB
P113       17.90 dB
P12M       29.65579948 W
P112M      0.43969320 W
P113M      0.19106875 W
SFO2       499.8419994 MHz

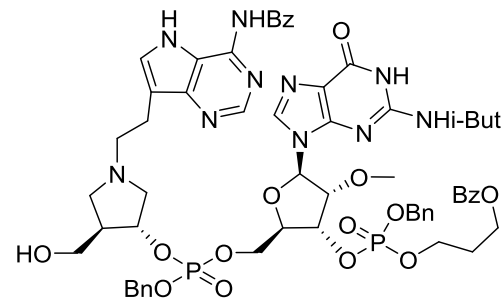
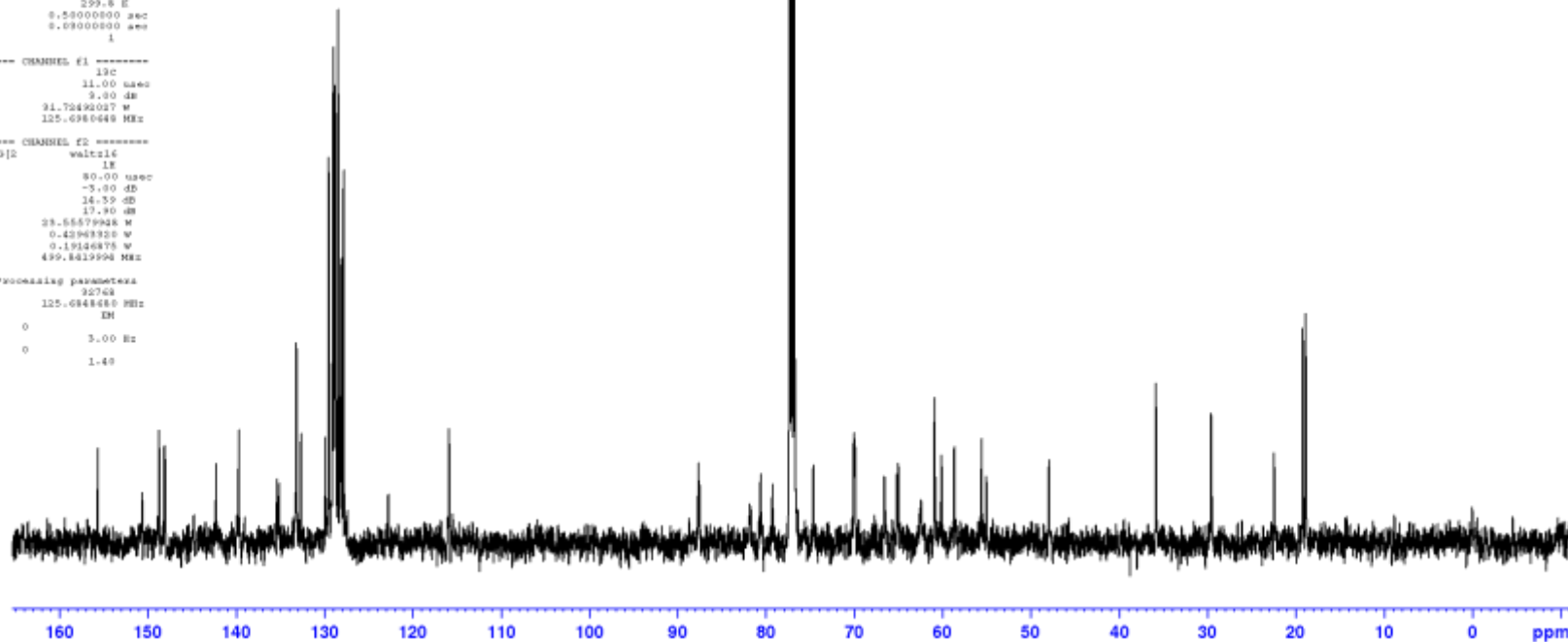
F2 - Processing parameters
SI         32768
SF         125.0984680 MHz
MCM        EM
ASB         0
LB          3.00 Hz
GB          0
PC          1.49
```



**¹³C NMR
126 MHz**

```

Current Data Parameters
NAME      Jmgg27C
EXPNO    11
PROCNO   1
-----
F2 - Acquisition Parameters
Date_    20131017
Time     9.14
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  cpd13
NS       830
DS       4
SFO      125000.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       2050
DM       18.000 usec
DE       10.00 usec
TE       299.8 K
D3       0.50000000 sec
D11      0.09000000 sec
TEO      1
----- CHANNEL f1 -----
NUC1     13C
P1       11.00 usec
P11      9.00 dB
P11M     31.7049027 W
SFO1     125.0980648 MHz
----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -3.00 dB
P112     14.39 dB
P113     17.90 dB
P12M     29.65579948 W
P112M    0.42968320 W
P113M    0.19186875 W
SFO2     499.8419994 MHz
-----
F2 - Processing parameters
SI       32768
SF       125.0984680 MHz
MCM      IM
ASB      0
LB       3.00 Hz
GB       0
PC       1.49
  
```



**³¹P NMR
202 MHz**

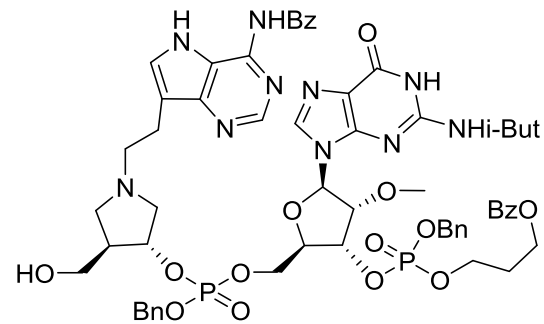
```
Current Data Parameters
NAME      smg27c
EXPNO    23
PROCNO   1

F2 - Acquisition Parameters
Date_    20131017
Time     10.27
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       134072
SOLVENT  cdcl3
NS       32
DS       4
SFO      61521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
TE       299.3 K
D3       2.00000000 sec
D11      0.09000000 sec
TEO      1
```

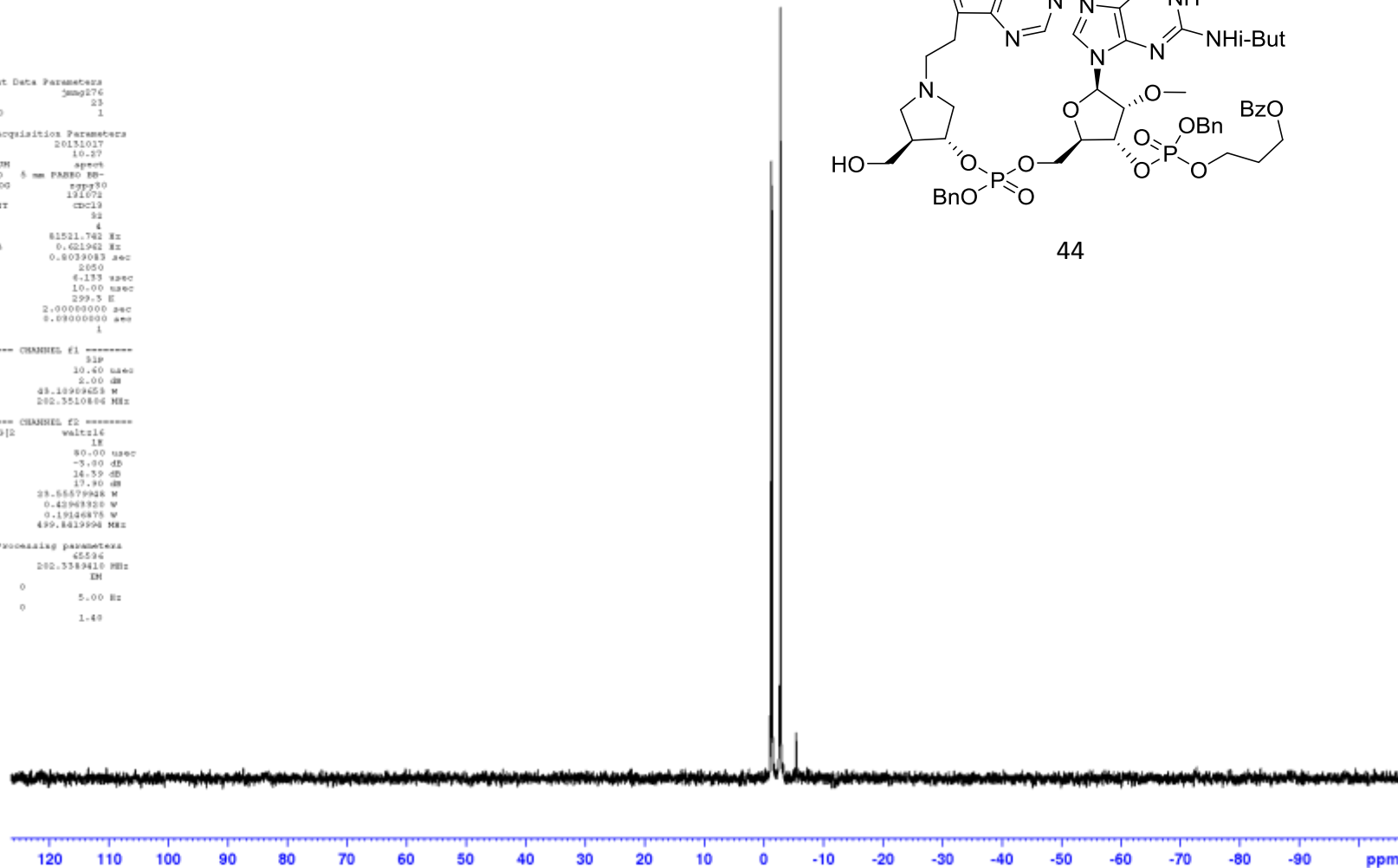
```
----- CHANNEL f1 -----
NUC1     31p
P1       10.40 usec
P11      5.00 dB
P11W    43.18969458 W
SFO1     202.3510846 MHz
```

```
***** CHANNEL f2 *****
CPCPFGP2 waltz16
NUC2     1H
PCPD2    80.00 usec
P12      -5.00 dB
P112     14.39 dB
P113     17.90 dB
P12W    29.65579948 W
P112W   0.42968320 W
P113W   0.19136875 W
SFO2     499.8419994 MHz
```

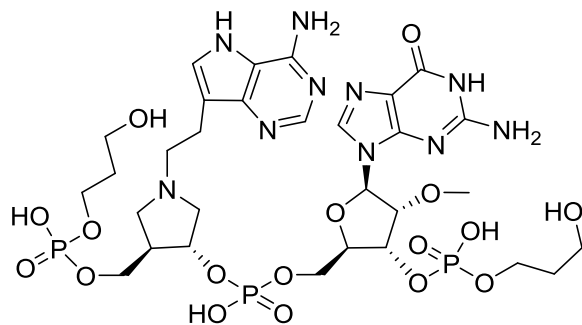
```
F2 - Processing parameters
SI       65536
SF       202.338410 MHz
MCM      IM
SAB      0
LB       5.00 Hz
GB       0
PC       1.40
```



44



¹H NMR
500 MHz

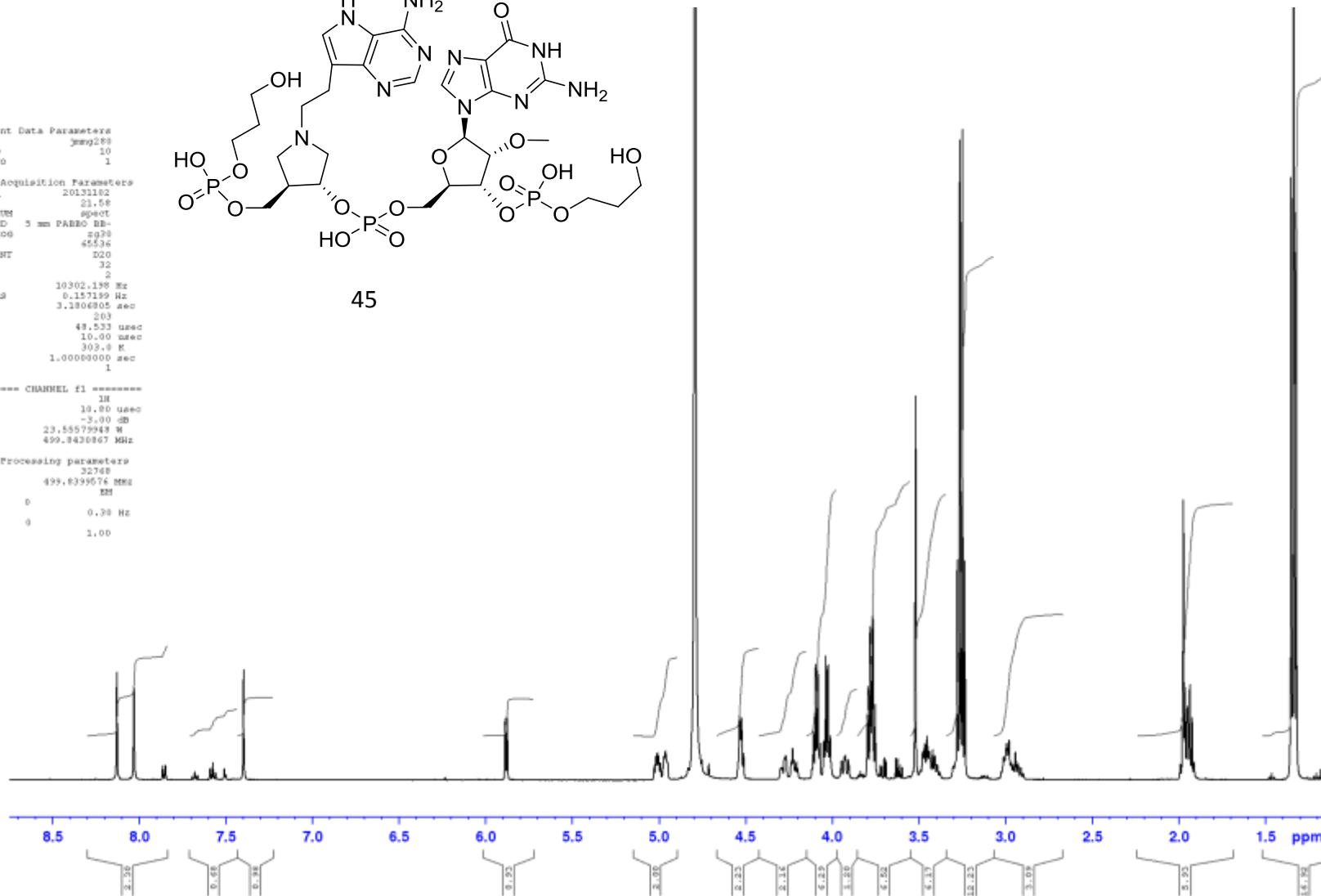


45

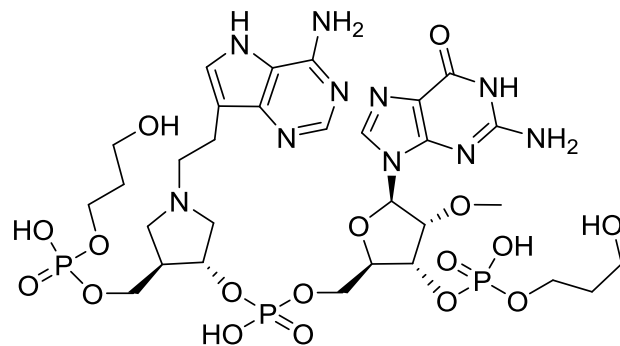
Current Data Parameters
 NAME Jmg289
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20121102
 TIME 23:58
 INSTRUM spect
 PROBEID 5 mm PABBO BB-
 PULPROG zgpg30
 TD 45536
 SOLVENT H2O
 NS 32
 DS 2
 SWH 10302.198 Hz
 FIDRES 0.157199 Hz
 AQ 3.1806805 sec
 RG 263
 CW 48.533 usec
 DE 10.00 usec
 TE 303.4 K
 DL 1.0000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUCL 1H
 P1 18.00 usec
 PL1 -3.00 dB
 PL1W 23.55579943 M
 SFO1 499.8420867 MHz

F2 - Processing parameters
 SI 32768
 SF 499.8399676 MHz
 NUC1 1H
 SFO 499.8399676 MHz
 LA 0.39 Hz
 GB 0
 PC 1.00



**¹³C NMR
126 MHz**



45

```

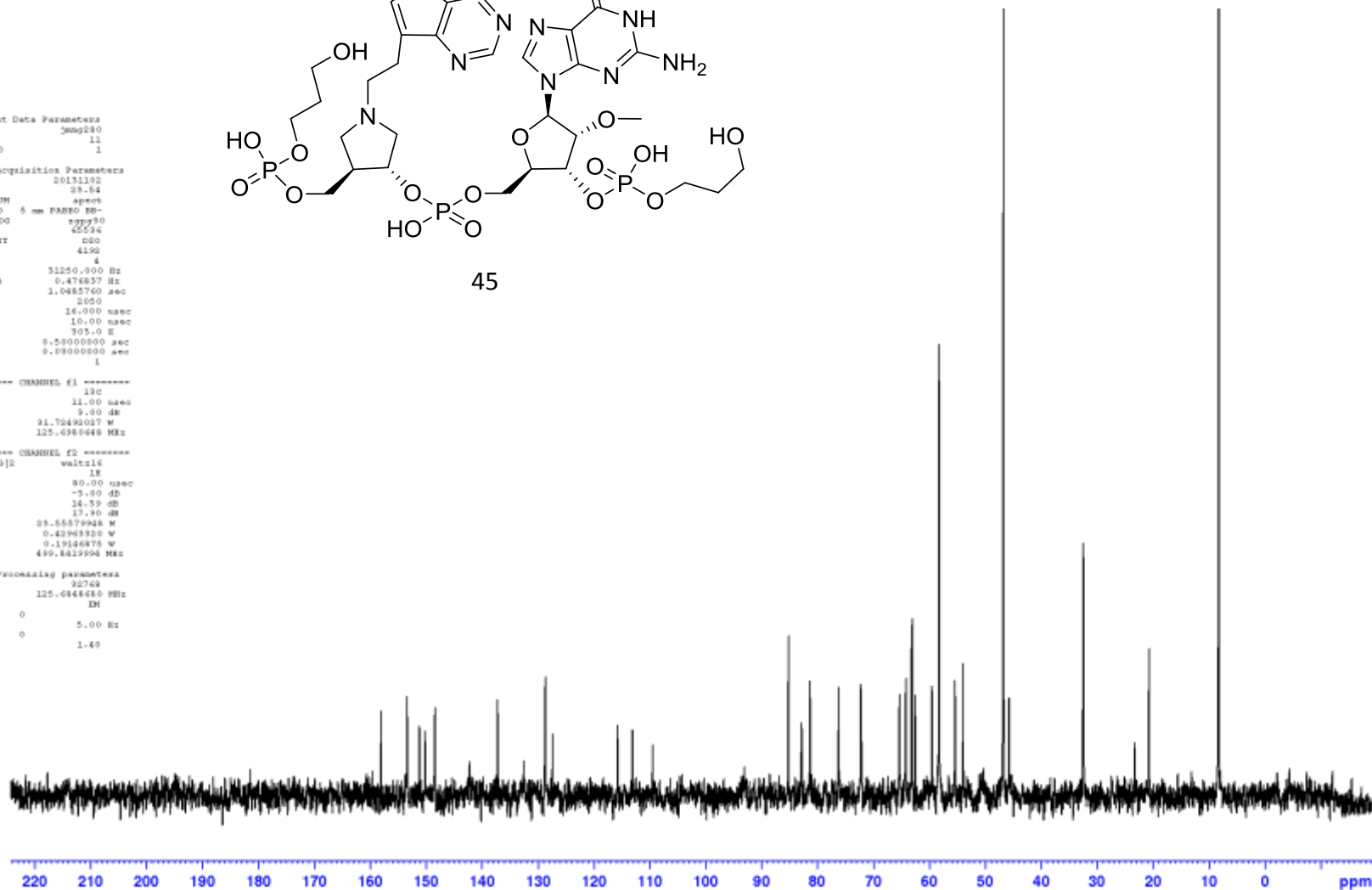
Current Data Parameters
NAME          3mg230
EXPNO        11
PROCNO       1

F2 - Acquisition Parameters
Date_        20131102
Time         13.54
INSTRUM      spect
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           65536
SOLVENT      D2O
NS           4192
DS           4
SWH          31250.000 Hz
FIDRES      0.474637 Hz
AQ          1.0485760 sec
RG          2050
DW          18.000 usec
DE          10.00 usec
TE          303.0 K
D3          8.58000000 sec
D11         8.09000000 sec
TEO         1

----- CHANNEL f1 -----
NUC1         13C
P1           11.00 usec
P11          9.00 dB
P11M        31.7049027 W
SFO1        125.0984648 MHz

***** CHANNEL f2 *****
CPOBPRG12   waltz16
NUC2         1H
PCPD2       80.00 usec
P12         -3.00 dB
P112        14.39 dB
P113        17.80 dB
P12M        29.65579928 W
P112M       0.43968320 W
P113M       0.19136875 W
SFO2        499.8419994 MHz

F2 - Processing parameters
SI           32768
SF          125.0984648 MHz
MCM         EM
ASB         0
LB          5.00 Hz
GB         0
PC          1.49
  
```



**³¹P NMR
202 MHz**

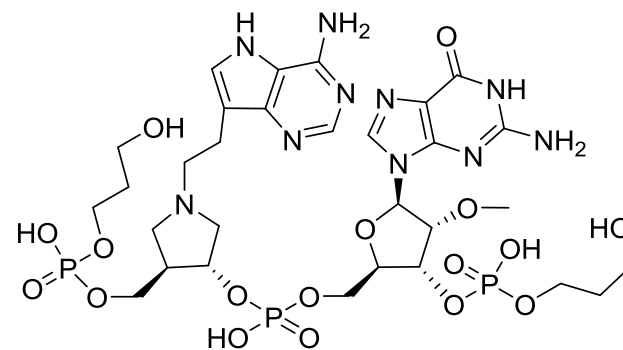
```
Current Data Parameters
NAME      Jmgp230
EXPNO    16
PROCNO   1

F2 - Acquisition Parameters
Date_    20131103
Time     9:28
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       131072
SOLVENT  D2O
NS       52
DS       4
SWH      61521.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2550
DW       6.133 usec
DE       10.00 usec
TE       303.0 K
D3       2.00000000 sec
D11      0.09000000 sec
TEO      1
```

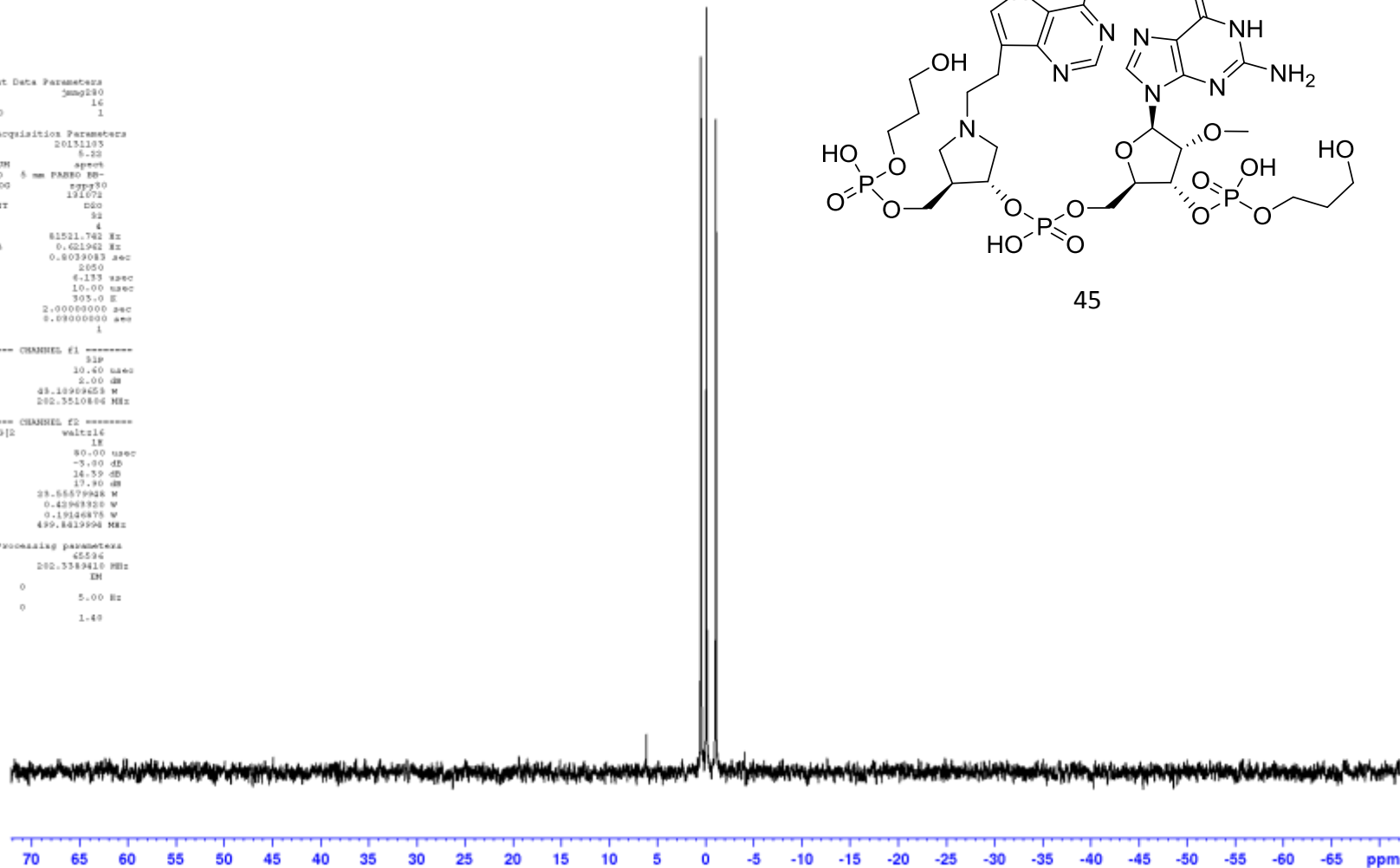
```
----- CHANNEL f1 -----
NUC1     31P
P1       10.40 usec
P11      5.00 dB
P11M     48.18969458 W
SFO1     202.3510846 MHz
```

```
----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       -3.00 dB
P21      14.39 dB
P21M     17.90 dB
P21M     28.65579948 W
P11M     0.43968320 W
P11M     0.19136875 W
SFO2     499.8419894 MHz
```

```
F2 - Processing parameters
SI       65536
SF       202.3389410 MHz
MCW      IM
SAB      0
LB       5.00 Hz
GB       0
PC       1.49
```



45



HPLC

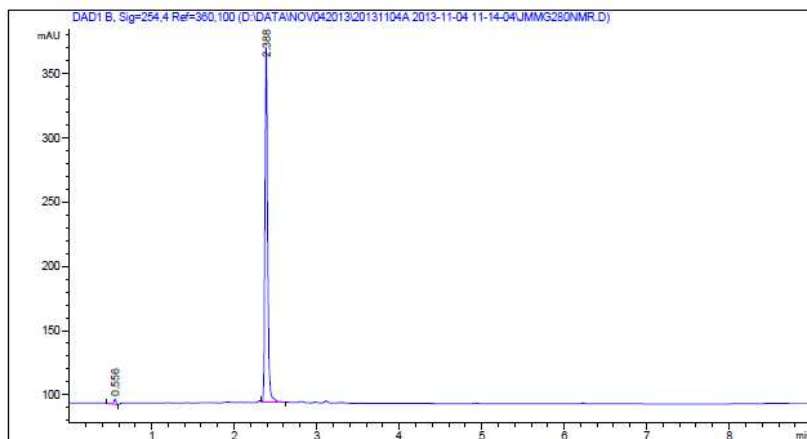
Data File D:\DATA\NOV042013\20131104A 2013-11-04 11-14-04\JMMG280NMR.D

Sample Name: jmmg280

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : LCMS                       Location  : Vial 63
Injection Date  : 11/4/2013 12:47:30 PM      Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method    : D:\DATA\NOV042013\20131104A 2013-11-04 11-14-04\P1 T9 AW BM FA 5-50M G5H1 .
                                           9-20.M
Last changed   : 11/4/2013 12:21:02 PM by SYSTEM
Analysis Method : D:\DATA\NOV042013\20131104A 2013-11-04 11-14-04\P1 T9 AW BM FA 5-50M G5H1 .
                                           9-20.M (Sequence Method)
Last changed   : 11/4/2013 3:02:32 PM by SYSTEM
                                           (modified after loading)
Method Info    : Position 1; Poroshell 120 EC-C18 3x50mm 2.7µm; A:Water+0.1FA, B:MeOH; T0-
                                           5min 5-50%B; T5-6 min 50%B; Flow 0.5 mL/min; m/z 100-1000
    
```



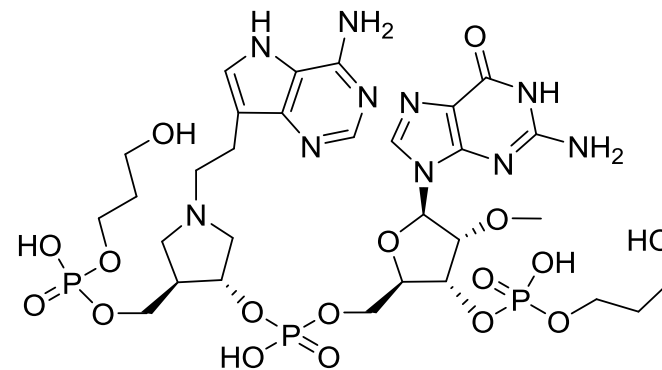
Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
    
```

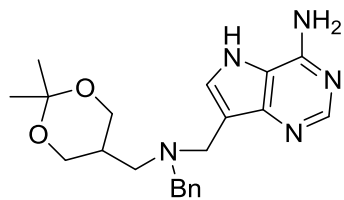
Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	0.556	BB	0.0335	9.48480	4.16989	1.4873
2	2.388	VV	0.0344	628.25488	277.15335	98.5127



45

¹H NMR
500 MHz



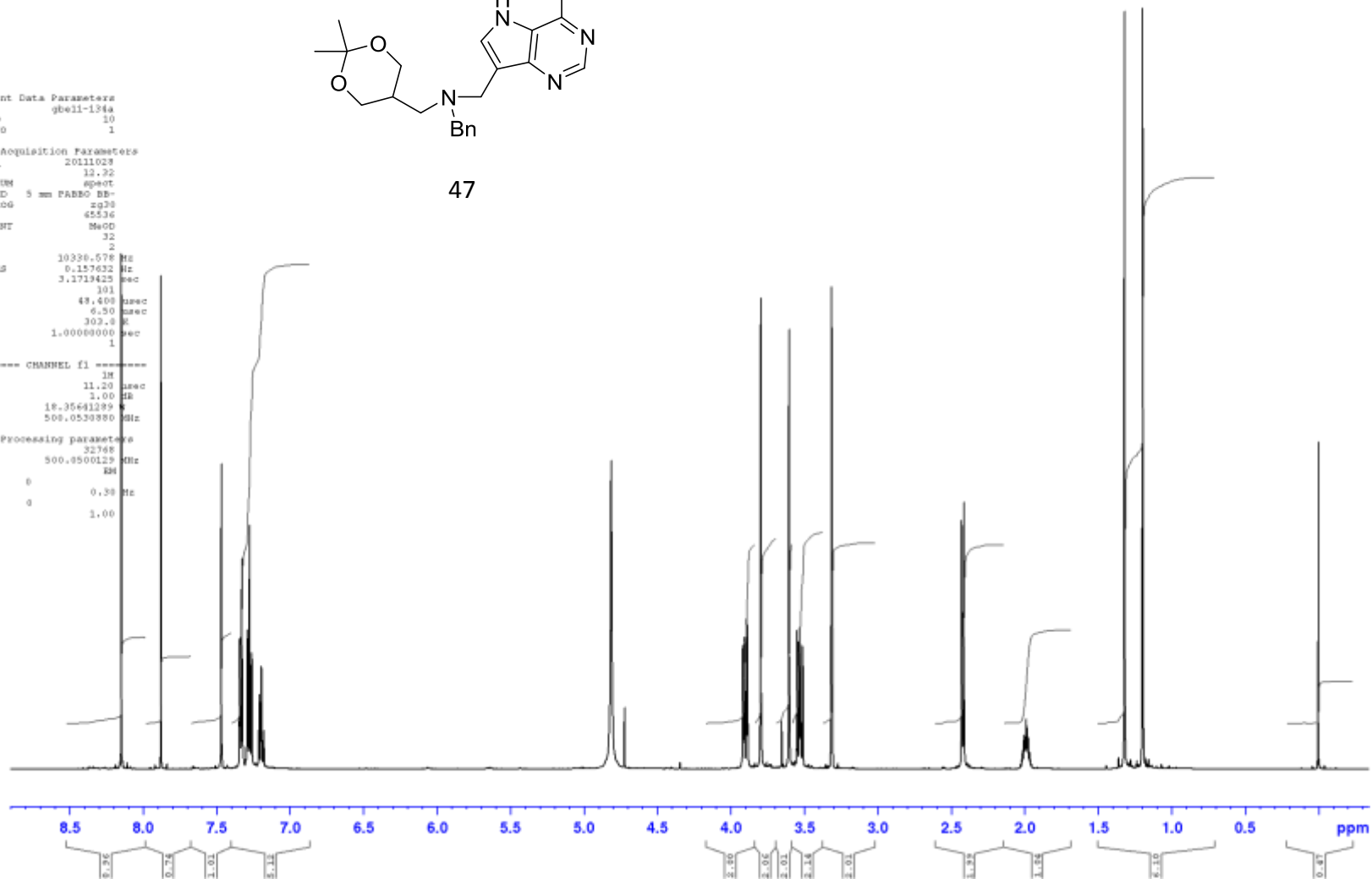
47

Current Data Parameters
NAME gbel1-1344
EXPNO 10
PROCNO 1

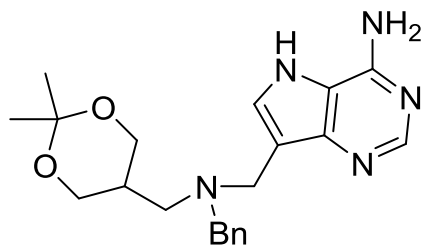
F2 - Acquisition Parameters
Date_ 20111023
Time 13.32
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 45536
SOLVENT MeOD
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 301
DM 43.408 usec
DE 6.50 usec
TE 303.2 K
DL 1.0000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
P11 1.00 dB
PL1W 18.35641289 Hz
SFO1 500.0539880 MHz

F2 - Processing parameters
SI 32768
SF 500.0500125 MHz
WDW EM
SSB 0
LB 0.39 Hz
GB 0
FC 1.00



¹³C NMR
126 MHz



47

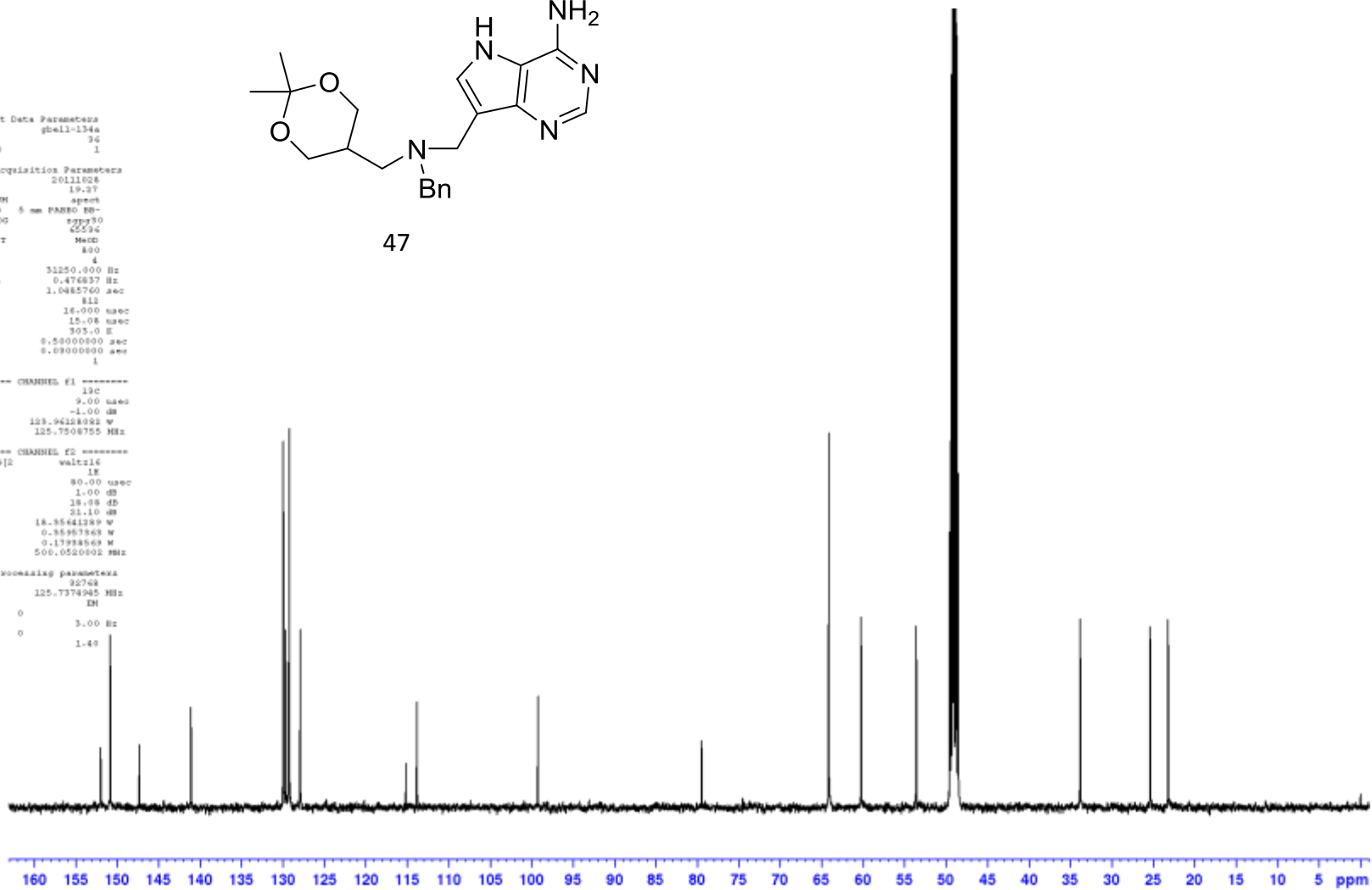
```
Current Data Parameters
NAME          sb11-134a
EXPNO         34
PROCNO        1

F2 - Acquisition Parameters
Date_         20111024
Time          19:27
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       MeOD
NS            800
DS            4
SWH           31250.000 Hz
FIDRES        0.476837 Hz
AQ            1.0485760 sec
RG            112
DW            16.000 usec
DE            15.08 usec
TE            305.0 K
D3            0.59000000 sec
D11           0.09000000 sec
TEO           1
```

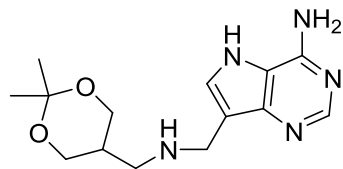
```
----- CHANNEL F1 -----
NUC1          13C
P1            9.00 usec
PL1           -1.00 dB
P1LW         123.9428884 W
SFO1          125.7508755 MHz
```

```
----- CHANNEL F2 -----
CPOBPRG2     waltz16
NUC2          1H
PCPD2        80.00 usec
P12           1.00 dB
P1L2         19.98 dB
P1L3         21.10 dB
P13W         18.95441289 W
P1L3W        0.35967363 W
P1L3W        0.17983683 W
SFO2          500.0520002 MHz
```

```
F2 - Processing parameters
SI            32768
SF            125.7374945 MHz
MCW           IM
ASB           0
LB            3.00 Hz
GB            0
PC            1.43
```



¹H NMR
500 MHz



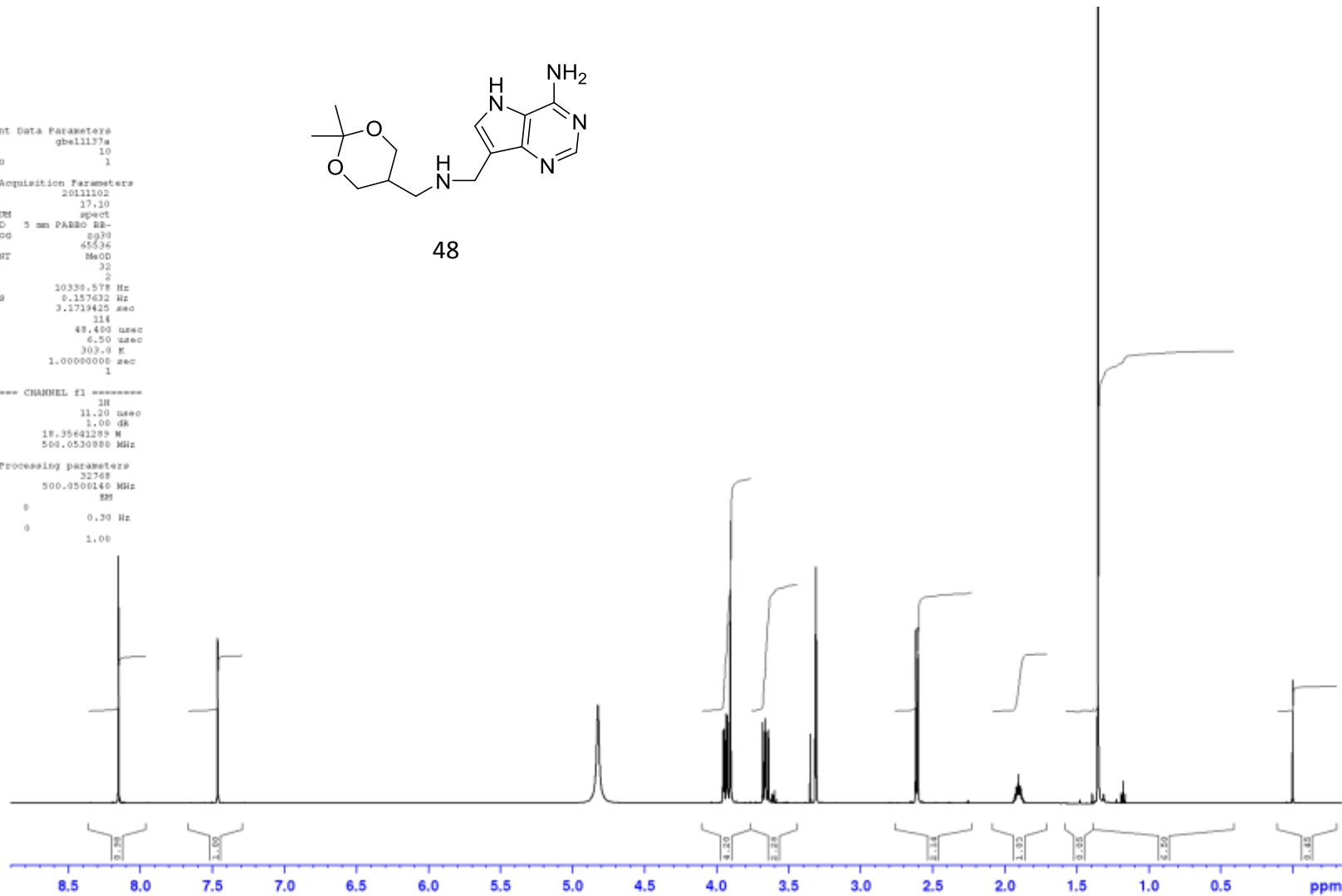
48

Current Data Parameters
NAME gbell137a
EXPNO 10
PROCNO 1

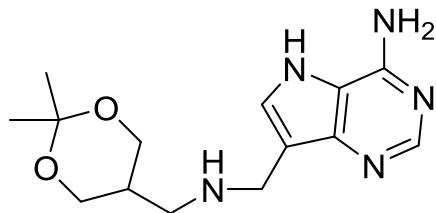
F2 - Acquisition Parameters
Date_ 20111102
Time 17.10
INSTRUM spect
PROBHD 5 mm PABBO B2-
PULPROG zgpg
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 10338.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 314
CW 43.480 usec
DE 6.50 usec
TE 303.0 K
D1 1.0000000 sec
YD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
P11 1.00 dB
PL1N 18.35641289 M
SFO1 500.0530880 MHz

F2 - Processing parameters
SI 32768
SF 500.0500146 MHz
NUC 1H
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹³C NMR
126 MHz



48

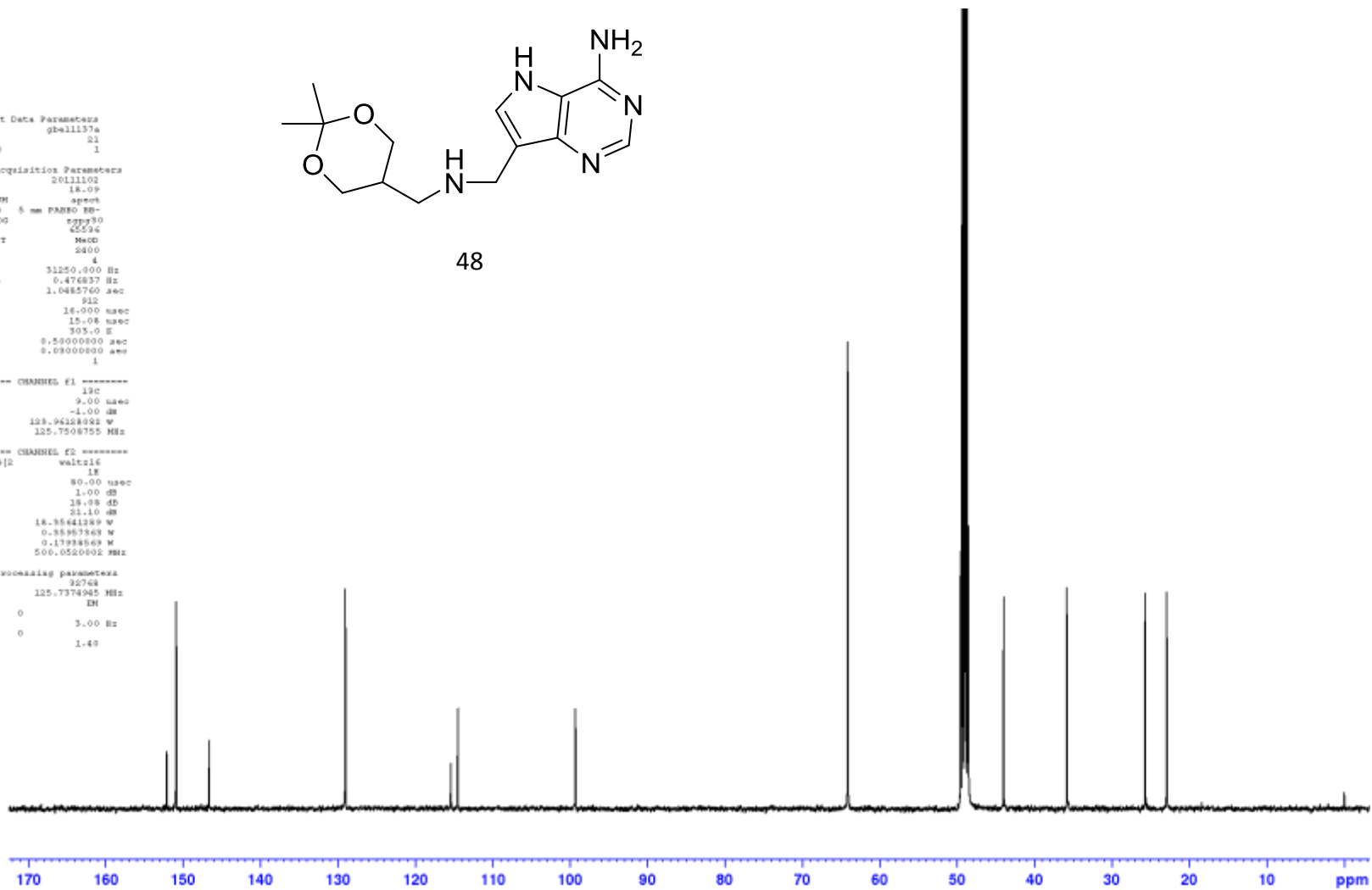
```
Current Data Parameters
NAME      gb111137a
EXPNO    21
PROCNO   1

F2 - Acquisition Parameters
Date_    20111102
Time     18.09
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       2400
DS       4
SWH      31250.000 Hz
FIDRES   0.476837 Hz
AQ       1.0485760 sec
RG       512
DM       16.000 usec
DE       15.08 usec
TE       305.0 K
D3       0.58000000 sec
D11      0.09000000 sec
TEO      1

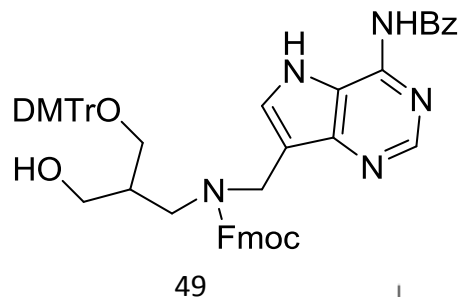
----- CHANNEL f1 -----
NUC1     13C
P1       9.00 usec
PL1      -1.00 dB
P1LM     123.9428284 W
SFO1     125.7508755 MHz

***** CHANNEL f2 *****
CPOPRG2  waltz16
NUC2     1H
PCPD2    80.00 usec
P2       1.00 dB
P2L2     19.98 dB
P2L3     21.10 dB
P2LM     18.95441289 W
P2L3M    0.35967363 W
P2L3W    0.17983669 W
SFO2     500.0520002 MHz

F2 - Processing parameters
SI       32768
SF       125.7374945 MHz
MCW      IM
SAB      0
LB       3.00 Hz
GB       0
PC       1.49
```



¹H NMR
500 MHz

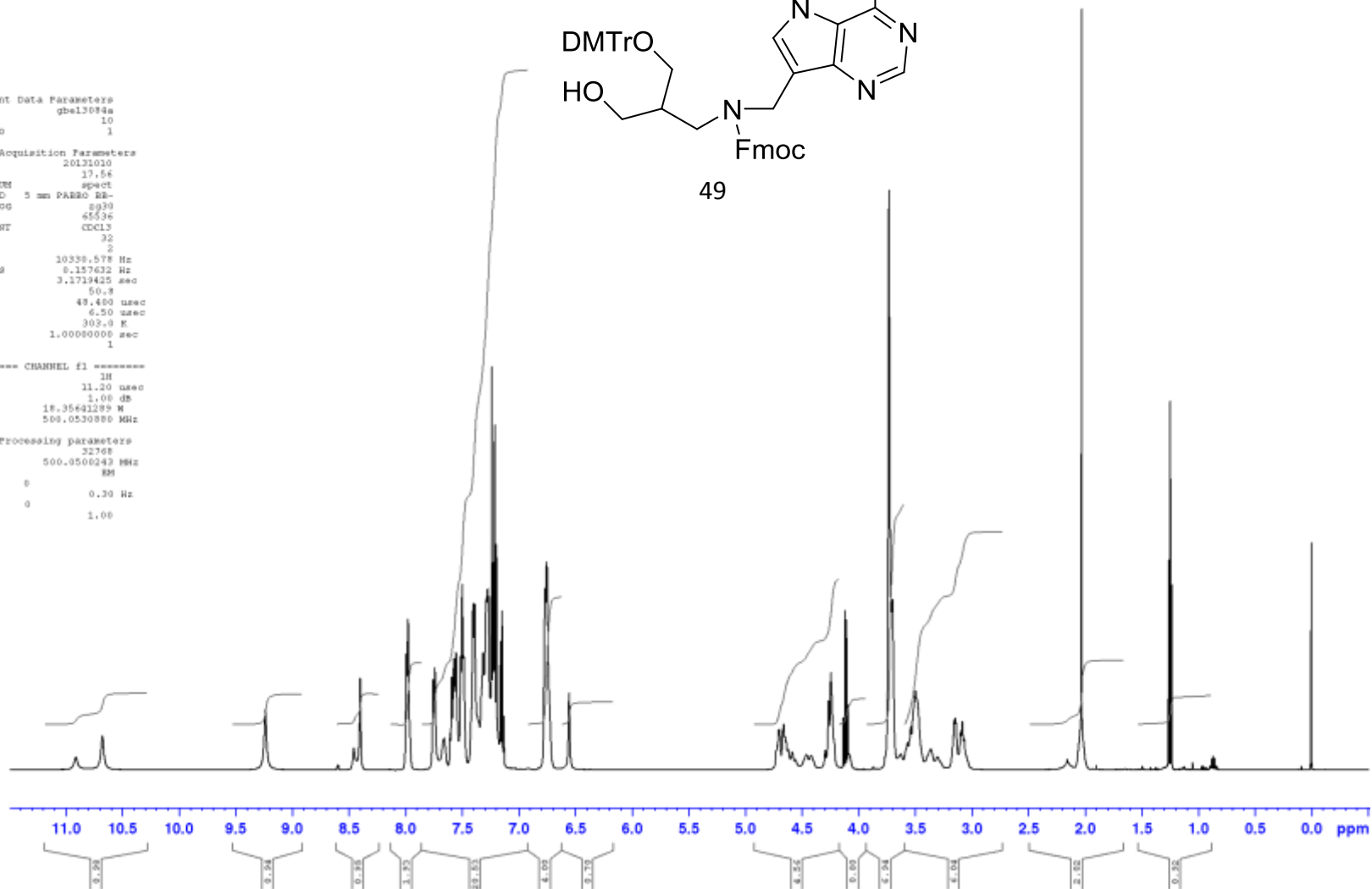


Current Data Parameters
NAME gbel3084a
EXPNO 10
PROCNO 1

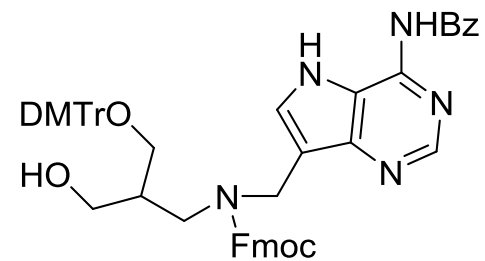
F2 - Acquisition Parameters
Date_ 20131010
Time 17.54
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 10338.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 50.3
DN 49.400 usec
DE 6.50 usec
TE 303.2 K
D1 1.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.20 usec
PL1 1.08 dB
PL1N 18.35641289 M
RFOL 500.0530886 MHz

F2 - Processing parameters
SI 32768
SF 500.050043 MHz
NUC NH
SSB 0
LB 0.30 Hz
GB 0
PC 1.08



¹³C NMR
126 MHz



49

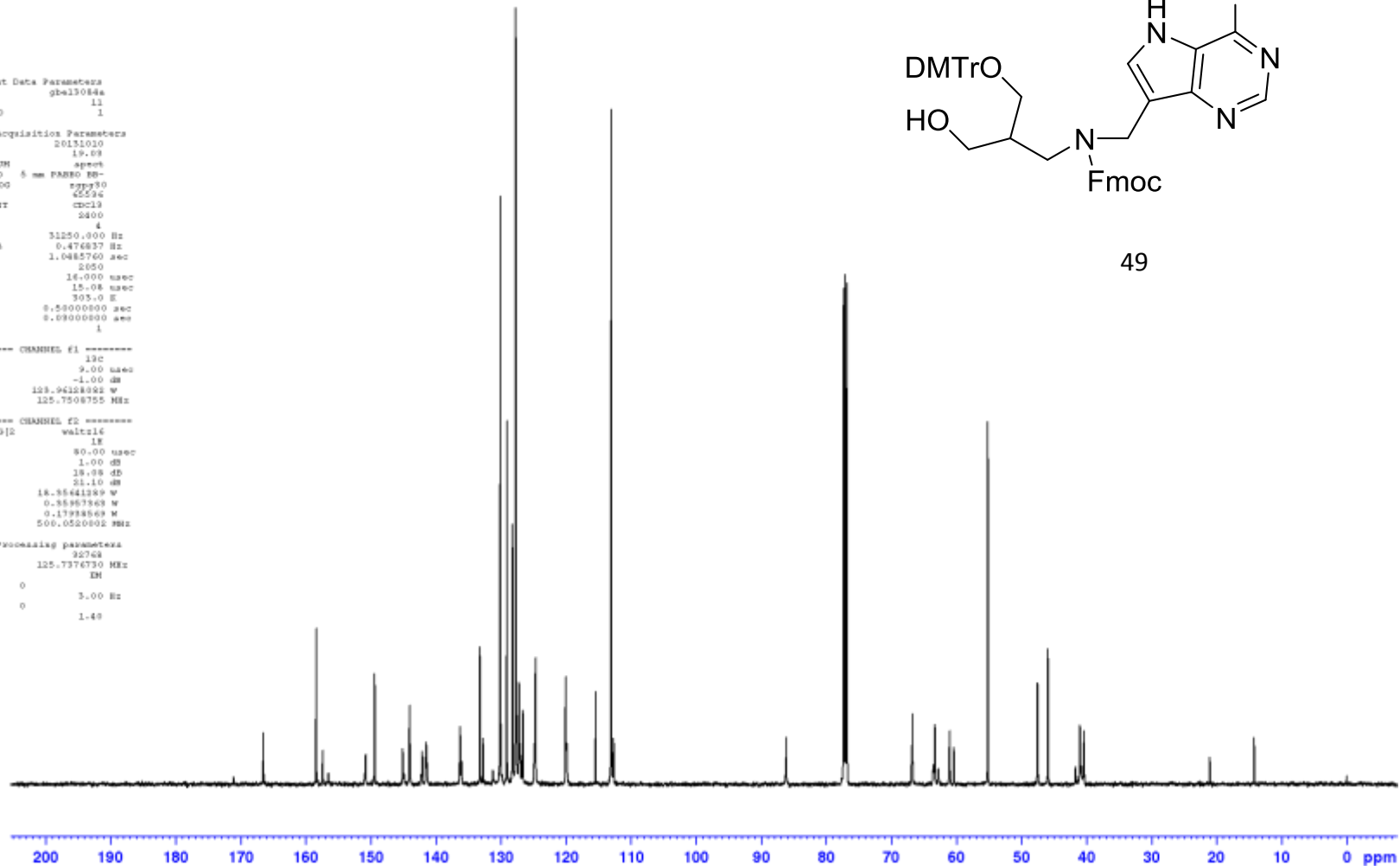
```
Current Data Parameters
NAME      gbel3084a
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20131010
Time      19.08
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   cpd13
NS        2400
DS        4
SFO       125.000000 MHz
FIDRES    0.476837 Hz
AQ        1.0485760 sec
RG        2050
DM        18.000 usec
DE        15.08 usec
TE        303.0 K
D3        0.58000000 sec
D11       0.09000000 sec
TEO       1

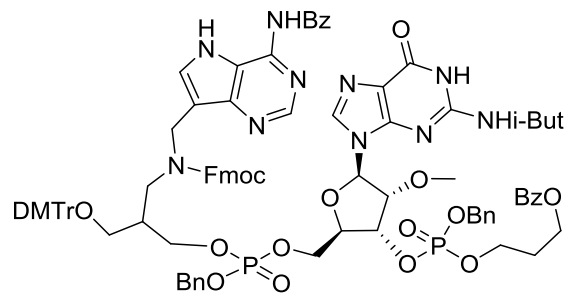
----- CHANNEL f1 -----
NUC1      13C
P1        9.00 usec
P11       -1.00 dB
P11W     123.9428884 W
SFO1      125.7508755 MHz

----- CHANNEL f2 -----
CPDPRG2   waltz16
NUC2      1H
PCPD2     80.00 usec
P12       1.00 dB
P12W     19.38 dB
P13       21.10 dB
P13W     18.95441289 W
P13M     0.35867363 W
P13W     0.17984569 W
SFO2      500.0520002 MHz

F2 - Processing parameters
SI        32768
SF        125.7376730 MHz
MCM       EM
SAB       0
LB        3.00 Hz
GB        0
PC        1.49
```



**³¹P NMR
202 MHz**



50

```

Current Data Parameters
NAME          3m0122
EXPNO         10
PROCNO        1

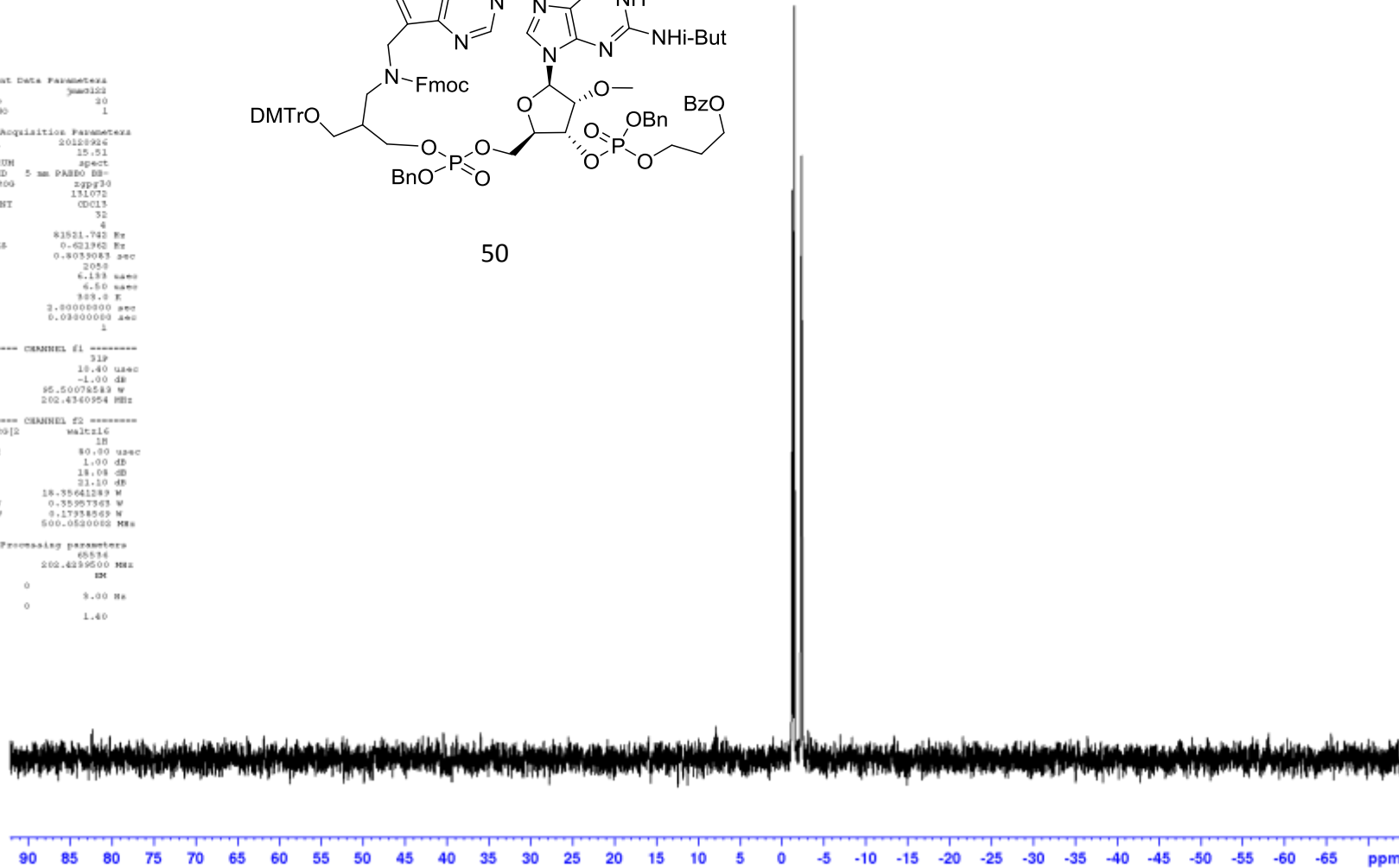
F2 - Acquisition Parameters
Date_         20120924
Time         15:51
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            131072
SOLVENT       CDCl3
NS            32
DS            4
SWH           81521.742 Hz
FIDRES       0.621962 Hz
AQ           0.8035083 sec
RG           2056
DW           6.123 usec
DE           6.50 usec
TE           300.2 K
D1           3.0000000 sec
d11          0.02000000 sec
TE0          1

----- CHANNEL f1 -----
NUC1          31P
P1           18.40 usec
PL1          -1.00 dB
P1M          55.50078523 W
SFO1         202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRP[2]   multiC
NUC2          1H
PCPD2        80.00 usec
P12          1.00 dB
P1L2         19.08 dB
P1L3         21.10 dB
P1M2         18.35641289 W
P1L2M        0.35907363 W
P1L3M        0.17348569 W
SFO2         500.0520082 MHz

F2 - Processing parameters
SI           65536
SF           202.4239500 MHz
NCM          324
ZSN          0
LB           3.00 Hz
GB           0
PC           1.40

```



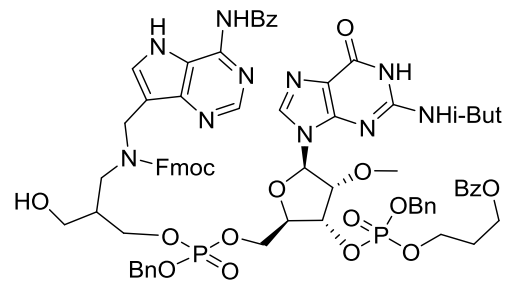
¹H NMR
500 MHz

Current Data Parameters
NAME jmg123
EXPNO 10
PROCNO 1

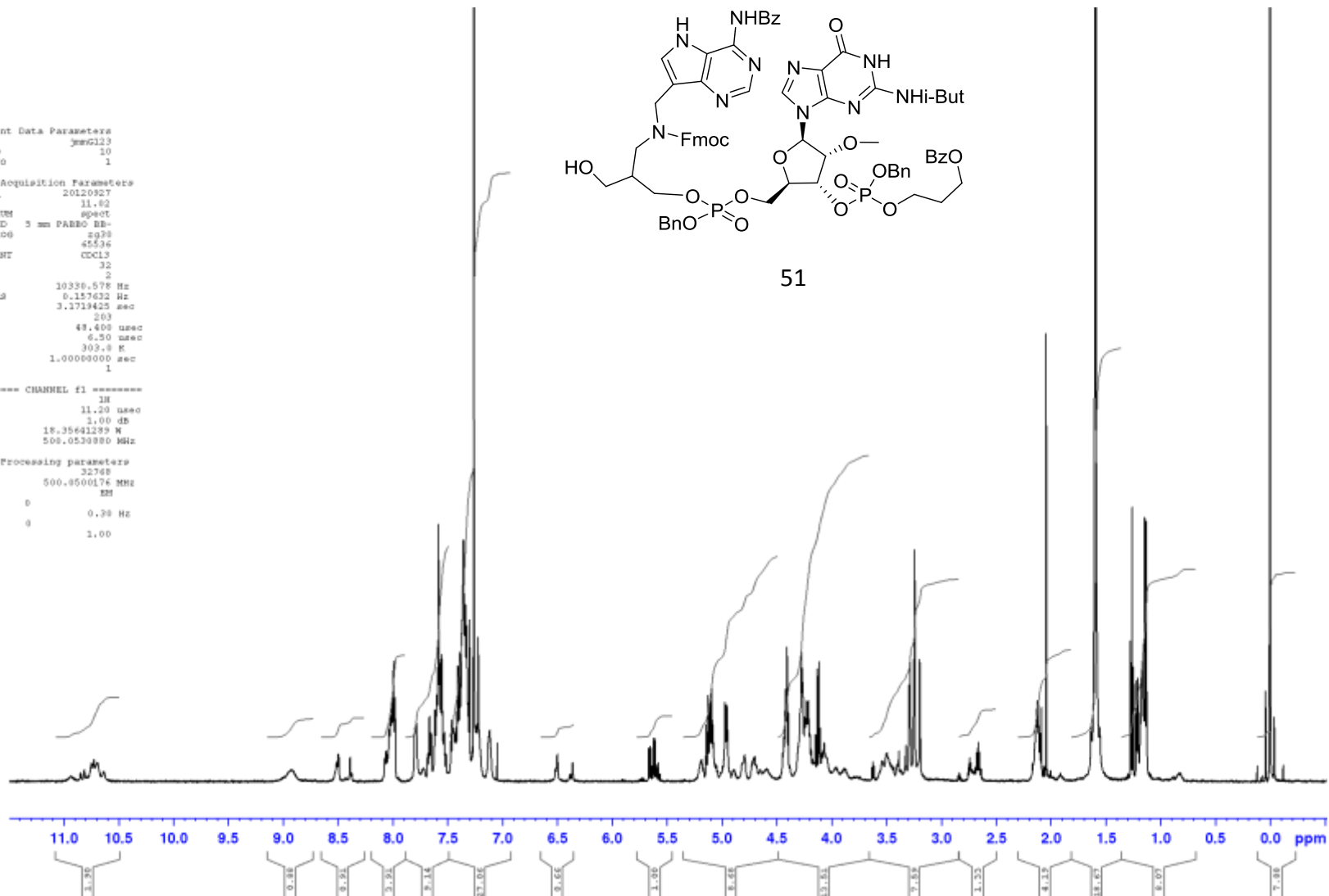
F2 - Acquisition Parameters
Date_ 20120927
Time 11:02
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT ccd13
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 203
CW 49.409 usec
DE 6.50 usec
TE 303.2 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 11.20 usec
PL1 1.00 dB
PL1W 18.35641289 W
RFOL 500.0530880 MHz

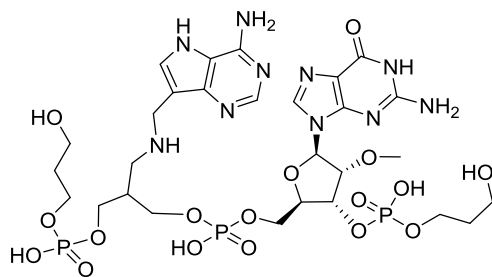
F2 - Processing parameters
SI 32768
SF 500.0500176 MHz
NMQ 0
SSB 0
LA 0.39 Hz
GB 0
PC 1.00



51



^1H NMR
500 MHz



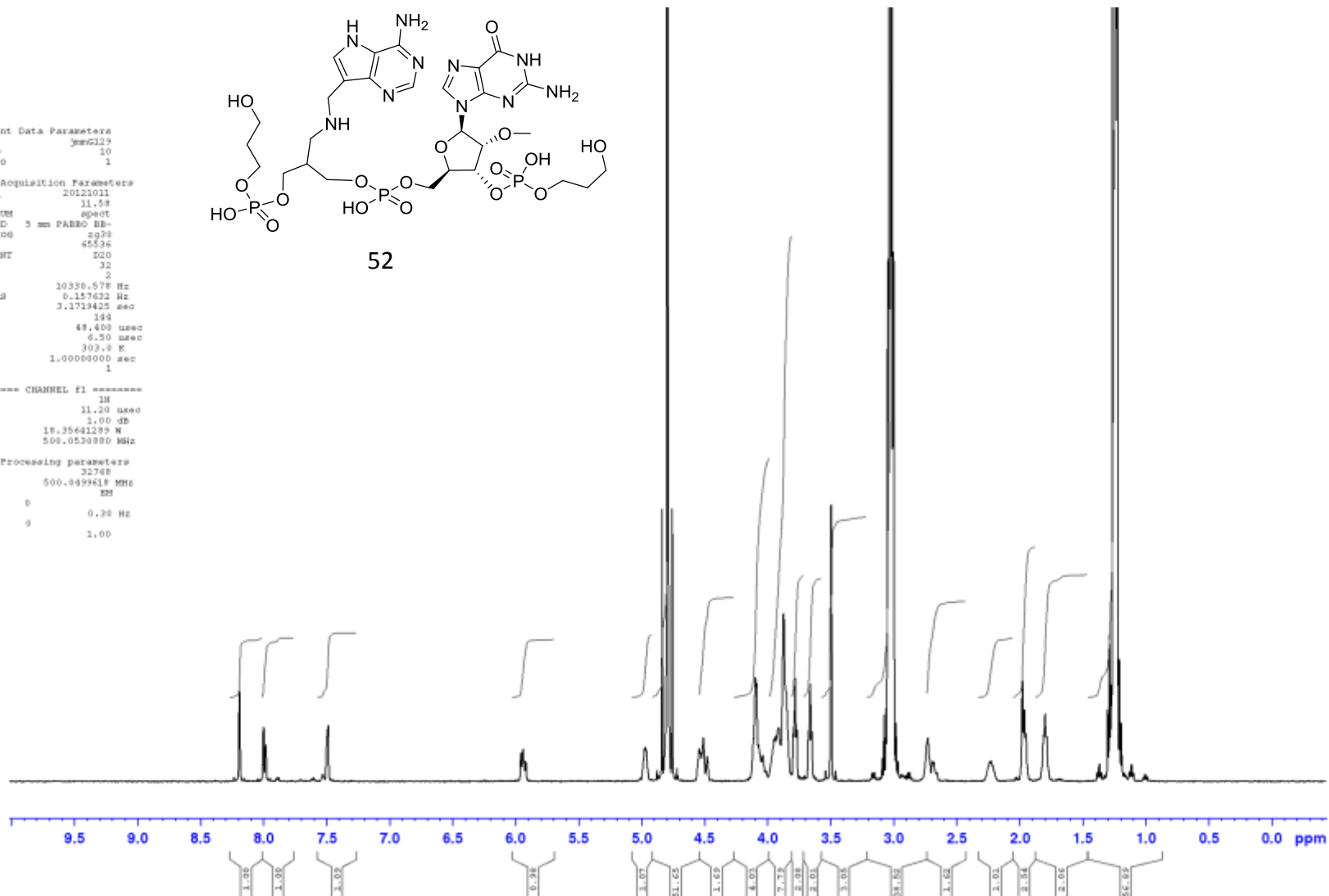
52

Current Data Parameters
NAME jms6129
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20121011
Time 11:58
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 45536
SOLVENT H2O
NS 32
DS 2
SWH 10336.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 144
CW 49.409 usec
DE 6.50 usec
TE 303.4 K
DQ 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 ^1H
P1 11.20 usec
PL1 1.00 dB
PL1W 18.35641289 W
RFOL 500.0530800 MHz

F2 - Processing parameters
SI 32768
SF 500.0499618 MHz
NM ^1H
SSB 0
LA 0.39 Hz
GB 0
PC 1.00



**¹³C NMR
126 MHz**

```

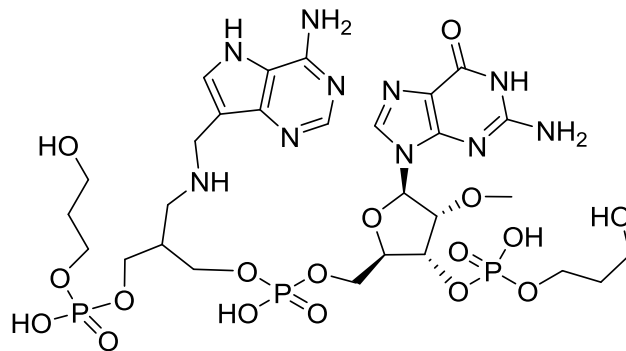
Current Data Parameters
NAME          3000129
EXPNO         34
PROCNO        1

F2 - Acquisition Parameters
Date_         20121012
Time          1.09
INSTRUM       spect
PROBHD        5 mm PABO DE-
PULPROG       zgpg30
TD            65536
SOLVENT       D2O
NS            16000
DS            4
SWH           31250.000 Hz
FIDRES        0.476837 Hz
AQ            1.0485760 sec
RG            261
BW            14.800 usec
DE            15.08 usec
TE            300.2 K
D1            0.15000001 sec
d11           0.03000000 sec
TD0           1

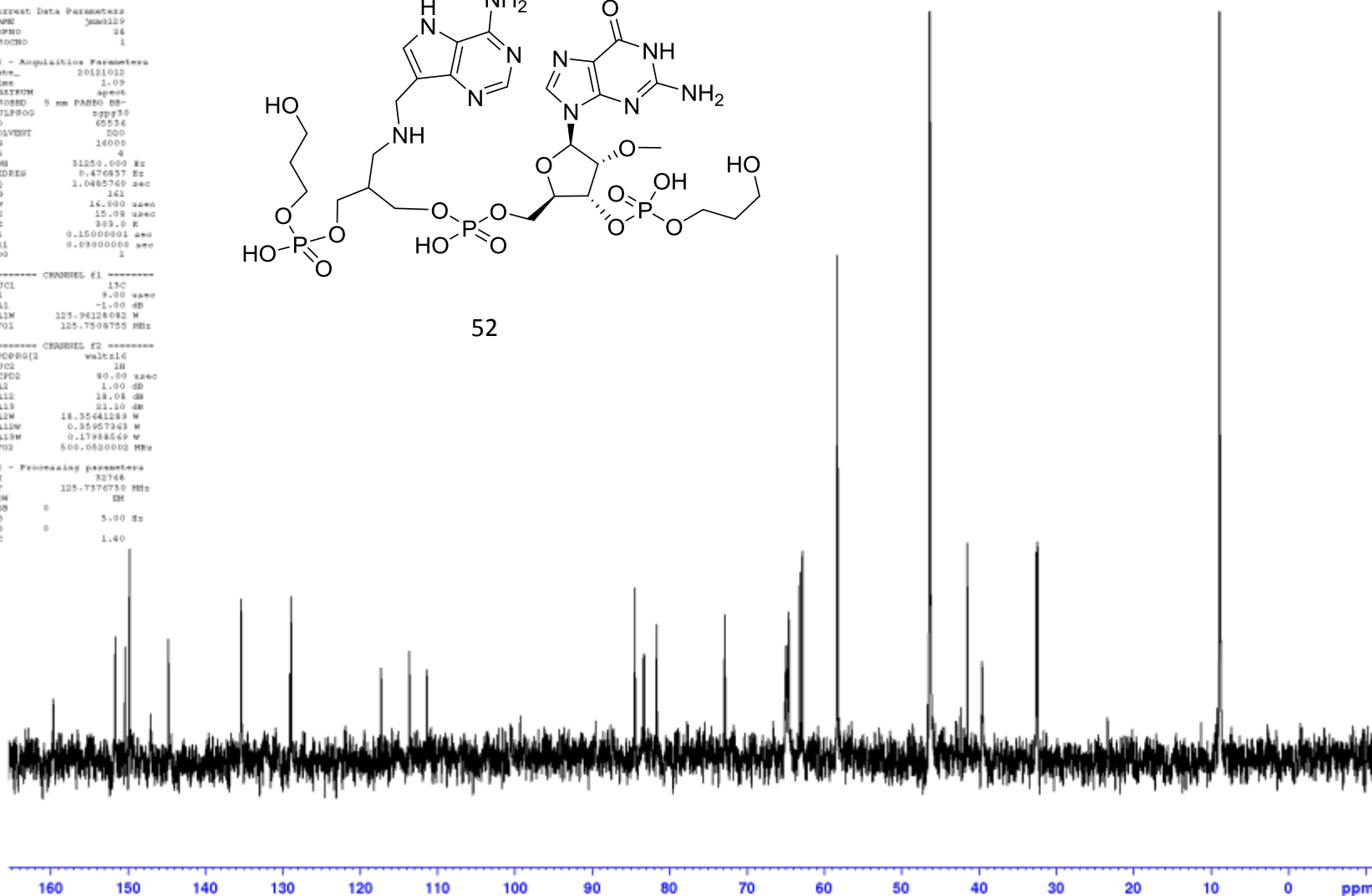
----- CHANNEL f1 -----
NUC1          13C
P1            8.00 usec
PL1           -1.00 dB
PL1W          125.9628082 W
SFO1          125.7598755 MHz

===== CHANNEL f2 =====
CPCPRG2       waltz16
NUC2          1H
PCPD2         80.00 usec
P12           1.00 dB
PL12          19.08 dB
PL13          21.10 dB
PL1W          18.35641223 W
PL13W         0.35957363 W
PL13M         0.17988569 W
SFO2          500.0520002 MHz

F2 - Processing parameters
SI            32768
SF            125.7376750 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.60
  
```



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³¹P NMR
202 MHz

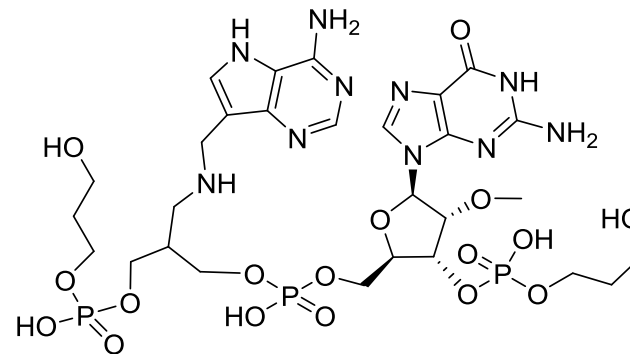
```
Current Data Parameters
NAME      jmac129
EXPNO    11
PROCNO   1

F2 - Acquisition Parameters
Date_    2011011
Time     12:01
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zgpg30
TD       131072
SOLVENT  D2O
RG       32
DS       4
SWH      81921.742 Hz
FIDRES   0.621962 Hz
AQ       0.8039083 sec
RG       2058
DW       6.123 usec
DE       6.50 usec
TE       300.2 K
D1       3.0000000 sec
d11      0.03000000 sec
TE0      1

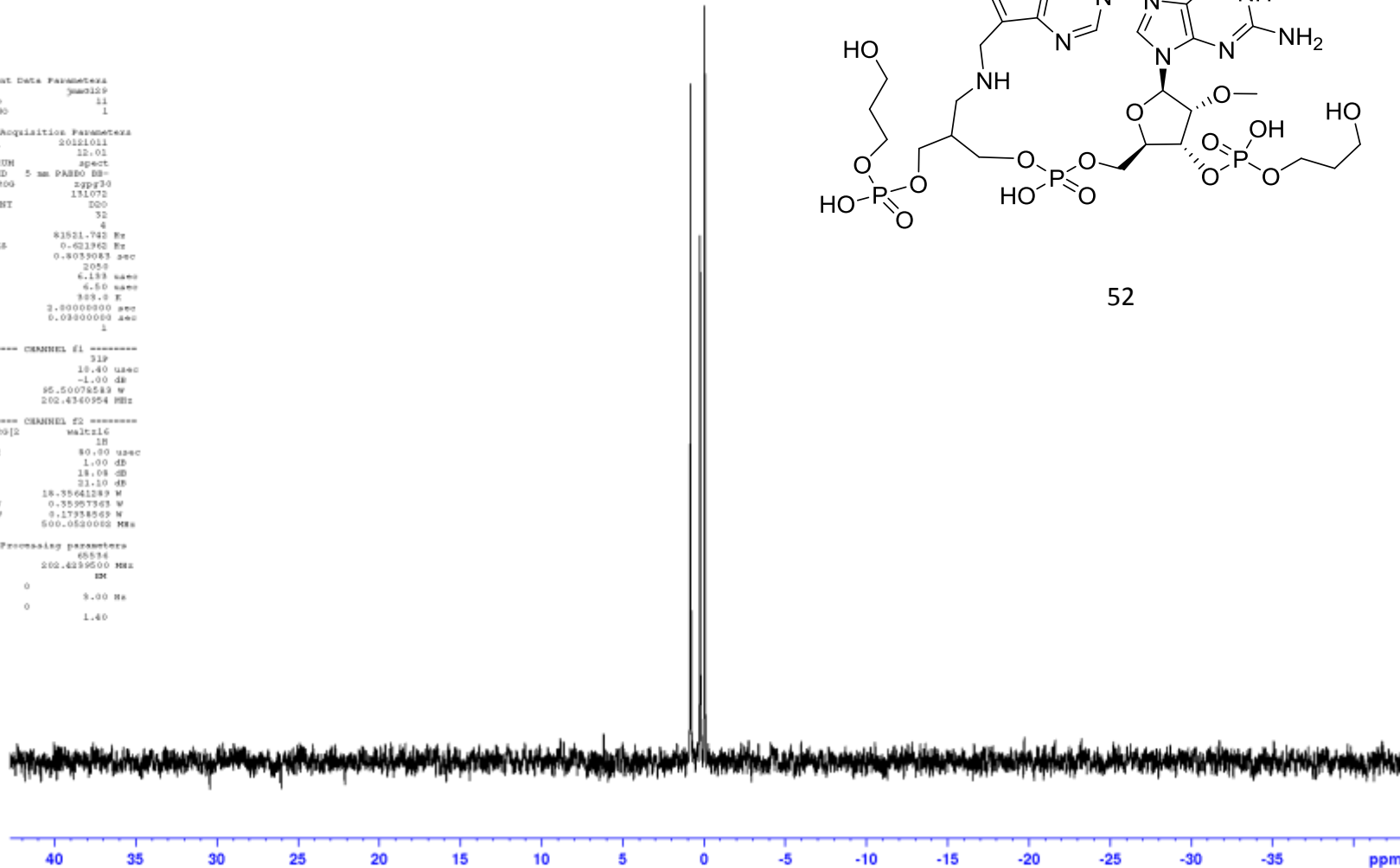
----- CHANNEL f1 -----
NUC1     31P
P1       18.40 usec
P11      -1.00 dB
P1LW     55.50078523 W
SFO1     202.4340954 MHz

----- CHANNEL f2 -----
CHOPPRG2  multi2
NUC2      1H
PCPD2     80.00 usec
P12       1.00 dB
P1L2     19.09 dB
P1L3     21.10 dB
P1LW     18.35641289 W
P1L2W    0.35907363 W
P1L3W    0.17948569 W
SFO2     500.0520082 MHz

F2 - Processing parameters
SI        65536
SF        202.4239500 MHz
NCM       324
ZSN       0
LB        3.00 Hz
GB        0
PC        1.40
```



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HPLC

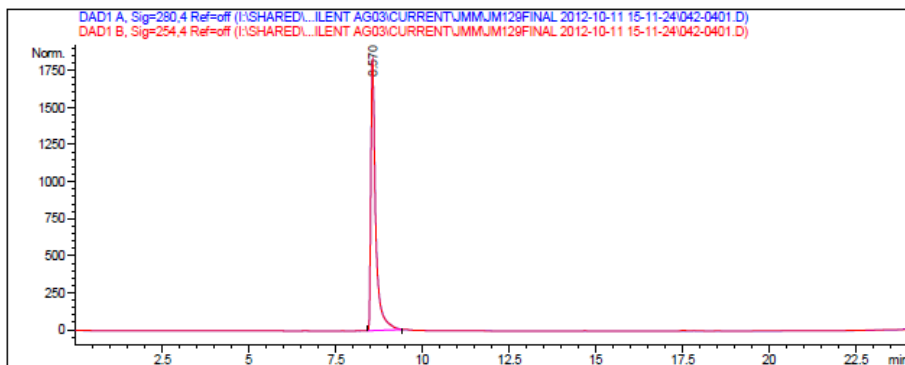
Data File I:\SHARED\... AGILENT AG03\CURRENT\JMM\JM129FINAL 2012-10-11 15-11-24\042-0401.D
 Sample Name: JMG129

```

=====
Acq. Operator   : jmm                      Seq. Line   : 4
Acq. Instrument : Instrument 1              Location    : Vial 42
Injection Date  : 10/11/2012 4:53:57 PM    Inj         : 1
                                           Inj Volume  : 20.000 µl

Different Inj Volume from Sequence !      Actual Inj Volume : 2.000 µl
Acq. Method     : I:\SHARED\INSTRUMENT DATA\HPLC AGILENT AG03\CURRENT\JMM\JM129FINAL 2012-10-11 15-11-24\JMMUPNUCLEO.M
Last changed    : 10/11/2012 3:11:23 PM by jmm
Analysis Method : I:\SHARED\INSTRUMENT DATA\HPLC AGILENT AG03\CURRENT\METHODS\JMMUPNUCLEO.M
Last changed    : 10/11/2012 3:11:23 PM by jmm
Method Info     : standard method
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

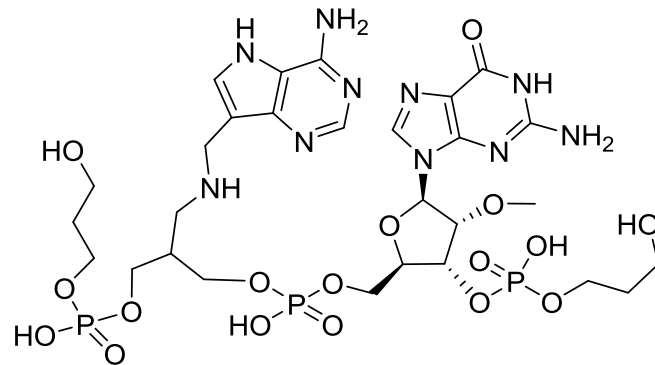
```

=====
Sorted By      :      Signal
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=290.4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.570	BB	0.1408	1.77039e4	1831.78650	100.0000

Totals : 1.77039e4 1831.78650



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