

Supporting Information

for

Synthesis and biological evaluation of gramicidin S dimers

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Herman S. Overkleeft and Mark Overhand

Selected NMR spectra ‡

(in CD₃OH, at 298 K, at 400 MHz)

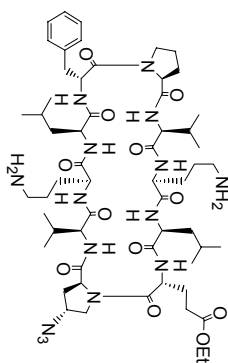
Compound 13	¹ H	Page 2-5
Compound 13	TOCSY	Page 6,7
Compound 14	¹ H	Page 8-11
Compound 14	TOCSY	Page 12,13
Compound 17	¹ H	Page 14-17
Compound 18	¹ H	Page 18-21
Compound 21	¹ H	Page 22-25
Compound 22	¹ H	Page 26-29
Compound 23	¹ H	Page 30-33
Compound 23	TOCSY	Page 34-36

‡ Variation in the experimental conditions, such as the solvent system or temperature, could not resolve the severe overlap of resonances in the ¹H NMR spectra due to the high degree of symmetry present in the gramicidin S analogues and the dimers thereof.

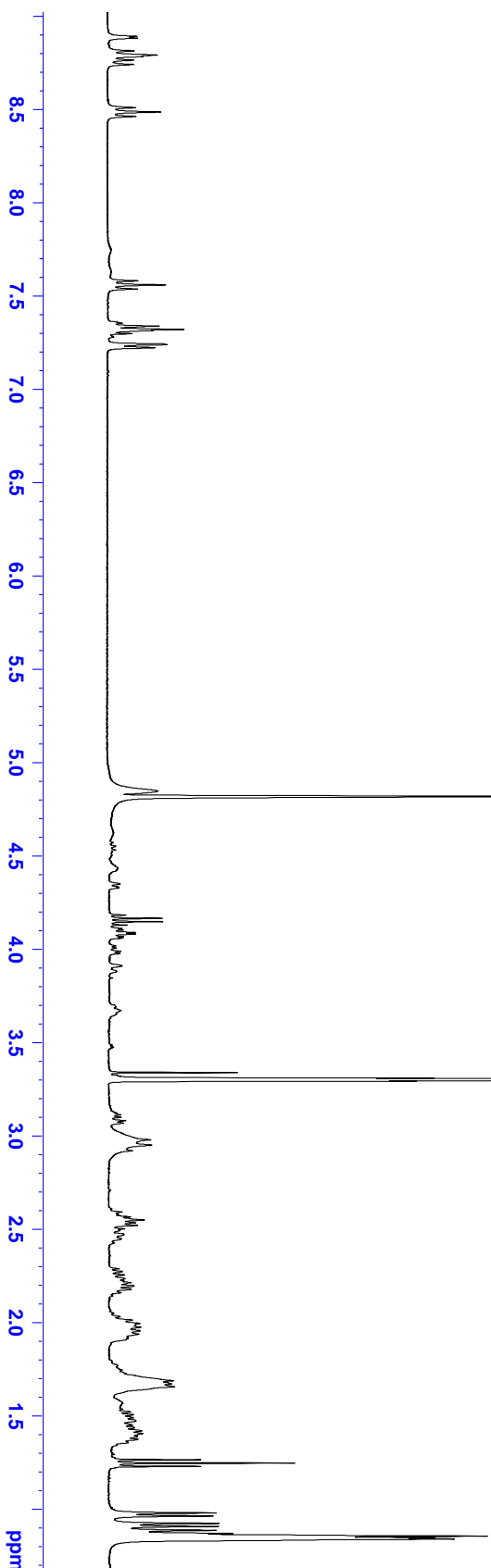
mwe1101 (epje 1) 298 K

8.815
8.792
8.765
8.742
8.510
8.487
8.463

7.582
7.560
7.538
7.356
7.339
7.321
7.299
7.240
7.224



4.846
4.819
4.430
4.349
4.327
4.183
4.165
4.147
4.129
4.110
4.102
4.089
4.081
4.067
4.059
3.988
3.976
3.911
3.671
3.338
3.308
3.304
3.300
3.296
3.293
3.112
3.099
3.080
3.067
3.067
2.978
2.949
2.920
2.591
2.565
2.548
2.533
2.519
2.500
2.470
2.447
2.287
2.269
2.254
2.234
2.212
2.195
2.175
2.159
2.030
2.012
1.994
1.973
1.953
1.937



Current Data Parameters
NAME g1j504203
EXPNO 9
PROCNO 1

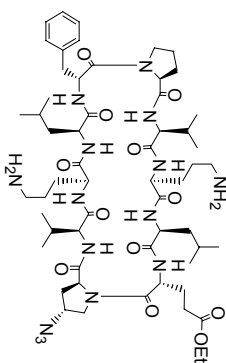
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Date_ 20030405
Time 18.03
INSTRUM avance400
PROBHD 5 mm BBI 1H-5B
PULPROG zgpg
TD 19228
SOLVENT MeOD
NS 64
DS 0
SWH 3720.238 Hz
FIDRES 0.193480 Hz
AQ 2.5842931 sec
RG 161.3
DW 134.400 usec
DE 8.50 usec
TE 300.0 K
D1 1.00000000 sec
D12 0.00020000 sec
D13 0.00000300 sec

==== CHANNEL f1 =====
NUC1 1H
P1 7.30 usec
PL1 4.00 dB
PL9 52.29 dB
SFO1 400.1319405 MHz

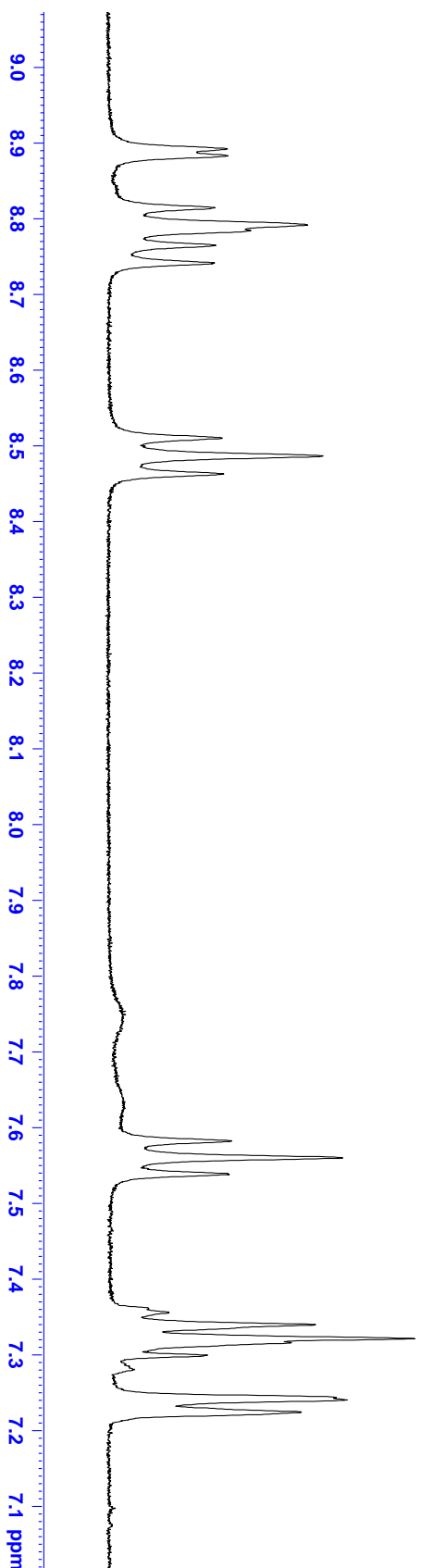
F2 - Processing parameters
SI 32768
SF 400.1300114 MHz
WDW GM
SSB 0
LB -0.20 Hz
GB 0.4
PC 1.00

mwe1101 (epje 1) 298 K

8.892	8.883	8.815	8.792	8.765	8.742	8.510	8.487	8.463	7.582	7.560	7.538	7.356	7.339	7.321	7.299	7.240	7.224
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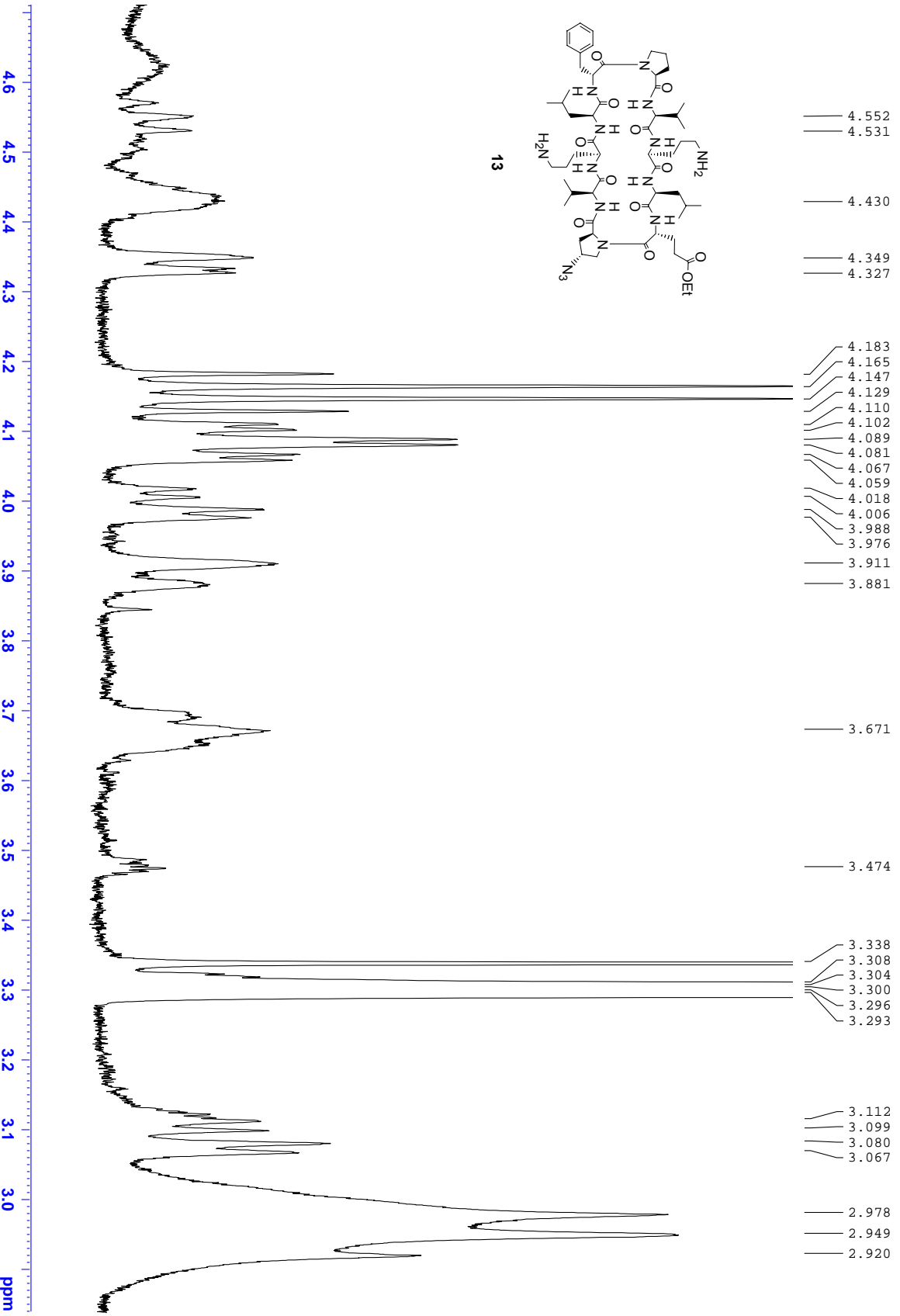


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Current Data Parameters
NAME          g1j504203
EXPNO         8
PROCNO       1
F2 - Acquisition Parameters
Date_         20030405
Time          18.03
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpg
TD            19228
SOLVENT      MeOD
NS            64
DS            0
SWH           3720.238 Hz
FIDRES       0.193480 Hz
AQ           2.5842931 sec
RG           161.3
DW           134.400 usec
DE           300.0 K
TE           8.50 usec
D1           1.00000000 sec
d12          0.00000000 sec
d13          0.00000300 sec
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           52.29 dB
SFO1         400.1319405 MHz
F2 - Processing parameters
SI            32768
SF            400.1300114 MHz
WDW           GM
SSB           0
LB            -0.20 Hz
GB            0.4
PC            1.00
  
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Current Data Parameters
 NAME g1j504203
 EXPNO 9
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20030405
 Time 18.03
 INSTRUM avance400
 PROBRD 5 mm BBI 1H-BB
 PULPROG zgpg
 TD 19228
 SOLVENT MeOD
 NS 64
 DS 0
 SWH 3720.238 Hz
 FIDRES 0.193480 Hz
 AQ 2.5842931 sec
 RG 161.3
 DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 d12 0.0002000 sec
 d13 0.0000300 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 52.29 dB
 SFO1 400.1319405 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300114 MHz
 WDW GM
 SSB 0
 LB -0.20 Hz
 GB 0.4
 PC 1.00

2.591
2.565
2.548
2.533
2.519
2.500
2.470
2.447

2.287
2.269
2.254
2.234
2.212
2.195
2.175
2.159

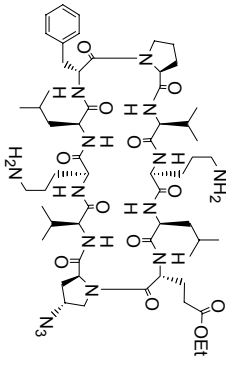
2.030
2.012
1.994
1.973
1.953
1.937

1.687
1.669
1.653

1.519
1.504
1.488
1.471
1.448
1.433
1.417
1.403
1.373

1.263
1.245
1.227

0.978
0.961
0.922
0.905
0.884
0.868
0.853
0.844
0.838

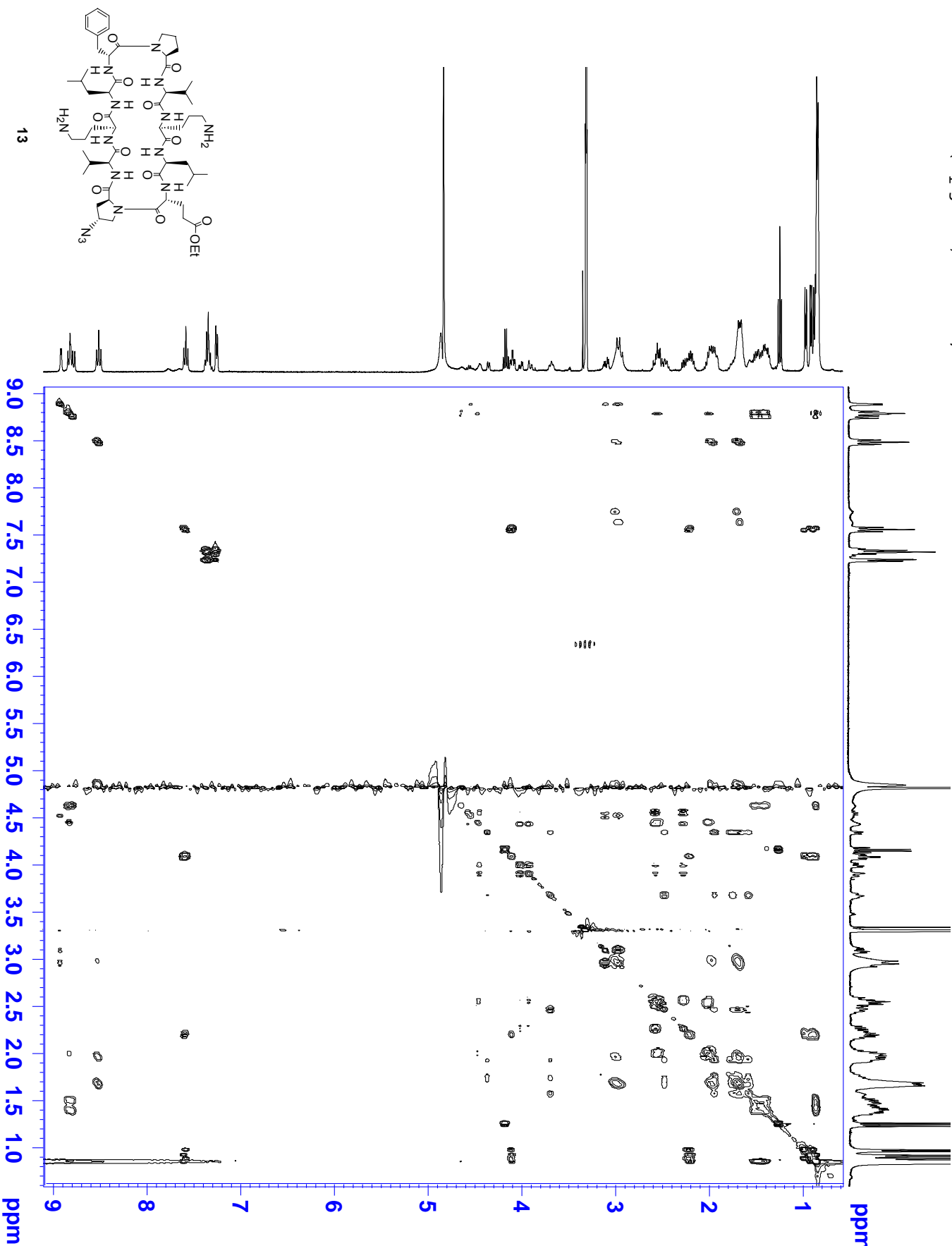


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Current Data Parameters
 NAME g1js042003
 EXPNO 8
 PROCNO 1
 F2 - Acquisition Parameters:
 Date_ 20030405
 Time 18.03
 INSTRUM avance400
 PROBRD 5 mm BBI 1H-RR
 PULPROG zgpg
 TD 19228
 SOLVENT MeOD
 NS 64
 DS 0
 SWH 3720.238 Hz
 FIDRES 0.193480 Hz
 AQ 2.5842931 sec
 RG 161.3
 DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 d12 0.00002000 sec
 d13 0.00000300 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 52.29 dB
 SFO1 400.1319405 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300114 MHz
 MDW GM
 SSB 0
 LB -0.20 Hz
 GB 0.4
 PC 1.00

mwe1101 (epje 1) 298 K, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME g13s042003
 EXPNO 9
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20030405
 Time 18.34

INSTRUM advance400
 PROBRD 5 mm BBI 1H-2B
 PULPROG cmlleppr2
 TD 65536
 SOLVENT CDCl3

DS 256
 SWH 3720.238 Hz
 FIDRES 1.816522 Hz
 AQ 0.2753012 sec
 RG 2048
 DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K

TD 0.0000000 sec
 D0 1.0000000 sec
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000400 sec
 D20 0.0006500 sec
 INO 0.00026880 sec

LL 18
 MCREST 0.0000000 sec
 MCWRK 0.00999999 sec
 STICNT 256

===== CHANNEL f1 =====
 NUC1 1H

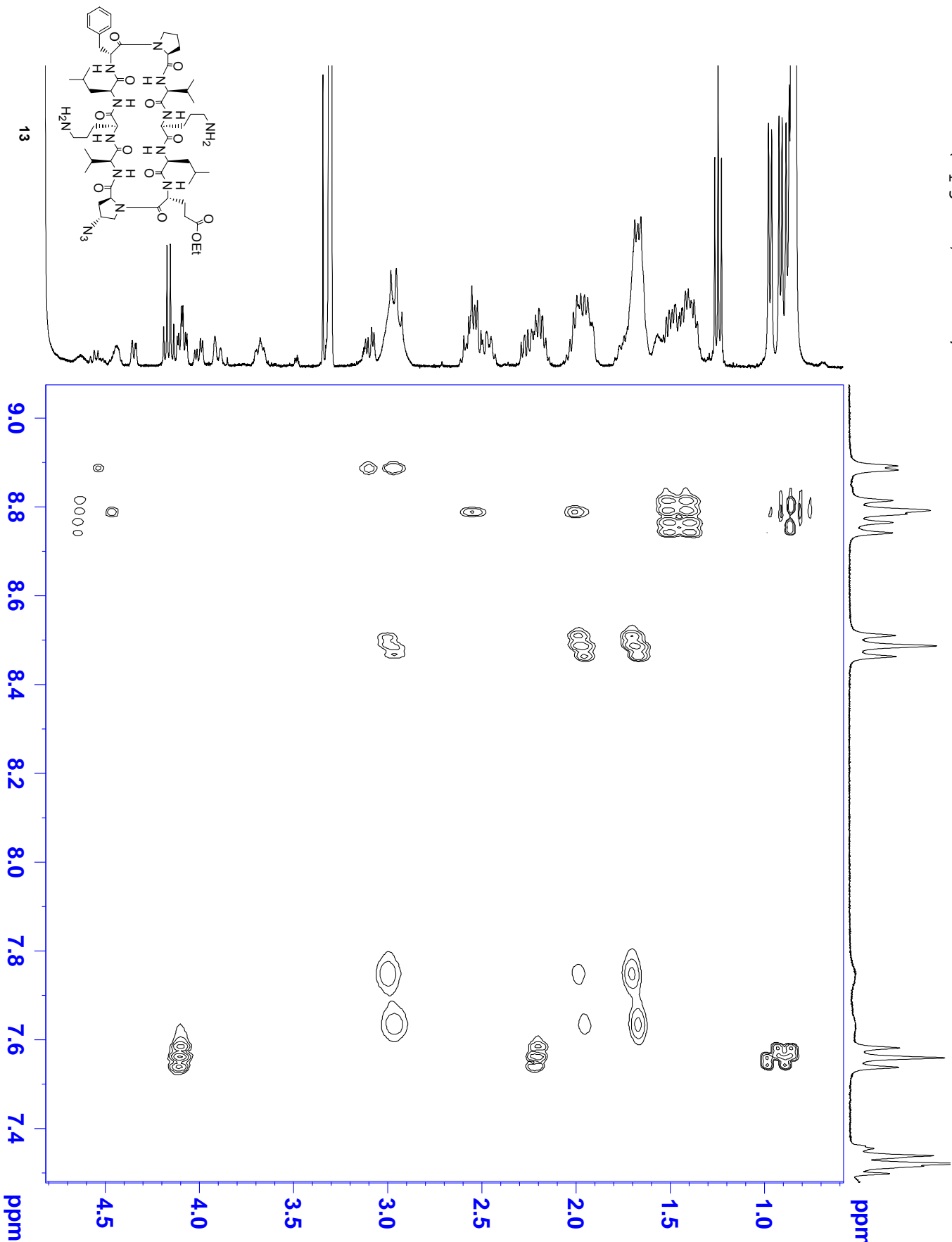
P1 6.10 usec
 P5 16.67 usec
 P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec
 PL1 4.00 dB
 PL9 52.29 dB
 PL10 16.50 dB
 SFO1 400.1319388 MHz

F1 - Acquisition Parameters
 FID 512
 SFO1 400.1319 MHz
 FIDRES 7.266090 Hz
 SW 9.298 ppm
 FMODE States-TPPI

F2 - Processing Parameters
 SI 2048
 SF 400.1300114 MHz
 MDW QSIGN
 SSB 2.3 Hz
 LB 0.00 Hz
 PC 1.00

F1 - Processing Parameters
 SI 1024
 States-TPPI
 MC2 400.1300064 MHz
 MDW QSIGN
 SSB 2.1 Hz
 LB 0.00 Hz
 GB 0

mwe1101 (epje 1) 298 K, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME g1j3042003
 EXPNO 9
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20030405
 Time 18.34

INSTRUM advance400
 PROBRD 5 mm BBI JH-285
 PULPROG zgpg30

TD 65536
 F2 298.15
 SOLVENT CDCl3

NS 32
 DS 256
 SWH 3720.238 Hz

FIDRES 1.816522 Hz
 AQ 0.2753012 sec
 RG 2048

DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K

TD 0.0000000 sec
 D0 1.0000000 sec
 d11 0.0300000 sec

d12 0.0000200 sec
 d13 0.0000400 sec
 D20 0.00006500 sec

IN0 0.00026880 sec
 I1 18
 MCREST 0.0000000 sec

MCWRK 0.00999999 sec
 STICNT 256

==== CHANNEL f1 =====
 NUC1 1H
 P1 6.10 usec
 P5 16.67 usec

P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec

PL1 4.00 dB
 PL9 52.29 dB
 PL10 16.50 dB

SFO1 400.1319388 MHz
 F1 - Acquisition Parameters
 MD 512
 SFO1 400.1319 MHz

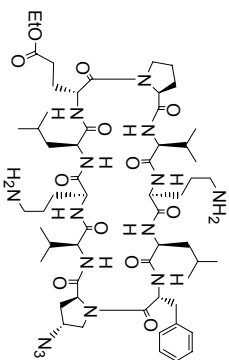
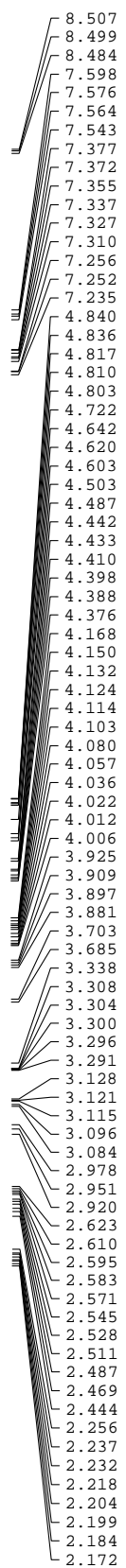
FIDRES 7.266090 Hz
 SW 9.298 ppm
 F2 - Processing Parameters
 SI 2048
 SF 400.1300114 MHz

WDW QSI
 SSB 2.3 Hz
 LB 0.00 Hz

PC 1.00
 F1 - Processing Parameters
 SI 1024
 States-TPPI 1024

MC2 400.1300064 MHz
 SF QSI
 MDW 2.1 Hz

SSB 0.00 Hz
 LB 0
 GB 0

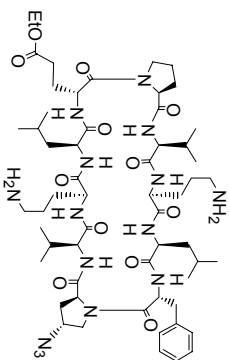


Current Data Parameters
 NAME g1j504203
 EXPRNO 6
 PROCNO 1
 P2 - Acquisition Parameters
 Date_ 20030405
 Time 15 21
 INSTRUM avance400
 PROBRD 5 mm BBI 1H-BB
 PULPROG zgpr
 TD 19228
 SOLVENT MeOD
 NS 64
 DS 0
 SMH 4807.692 Hz
 FIDRES 0.250036 Hz
 AQ 1.9997621 sec
 RG 456.1
 DW 104.000 usec
 DE 8.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 D12 0.0000000 sec
 D13 0.0000000 sec
 ===== CHANNEL f1 =====
 NUCL 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 52.29 dB
 SFO1 400.1319379 MHz
 P2 - Processing parameters
 SI 32768
 SF 400.1300115 MHz
 WDW GM
 SSB 0
 LB -1.61 Hz
 GB 0.4
 PC 1.00

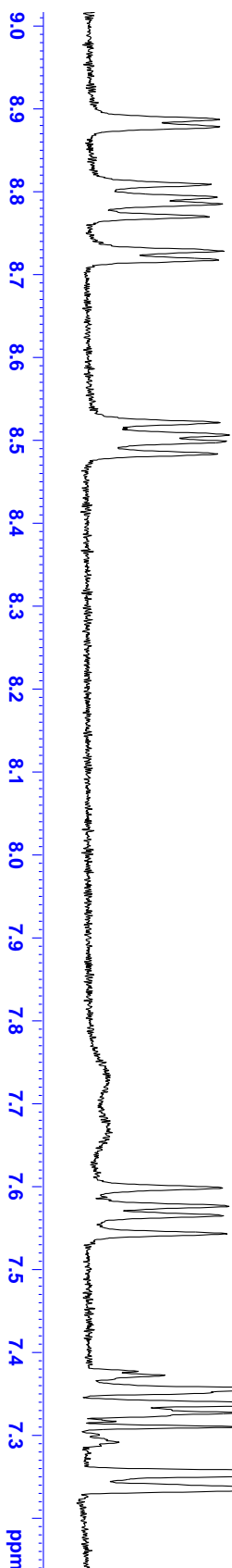
8.887
8.879
8.809
8.793
8.785
8.770
8.728
8.718
8.522
8.507
8.499
8.484

7.598
7.576
7.564
7.543

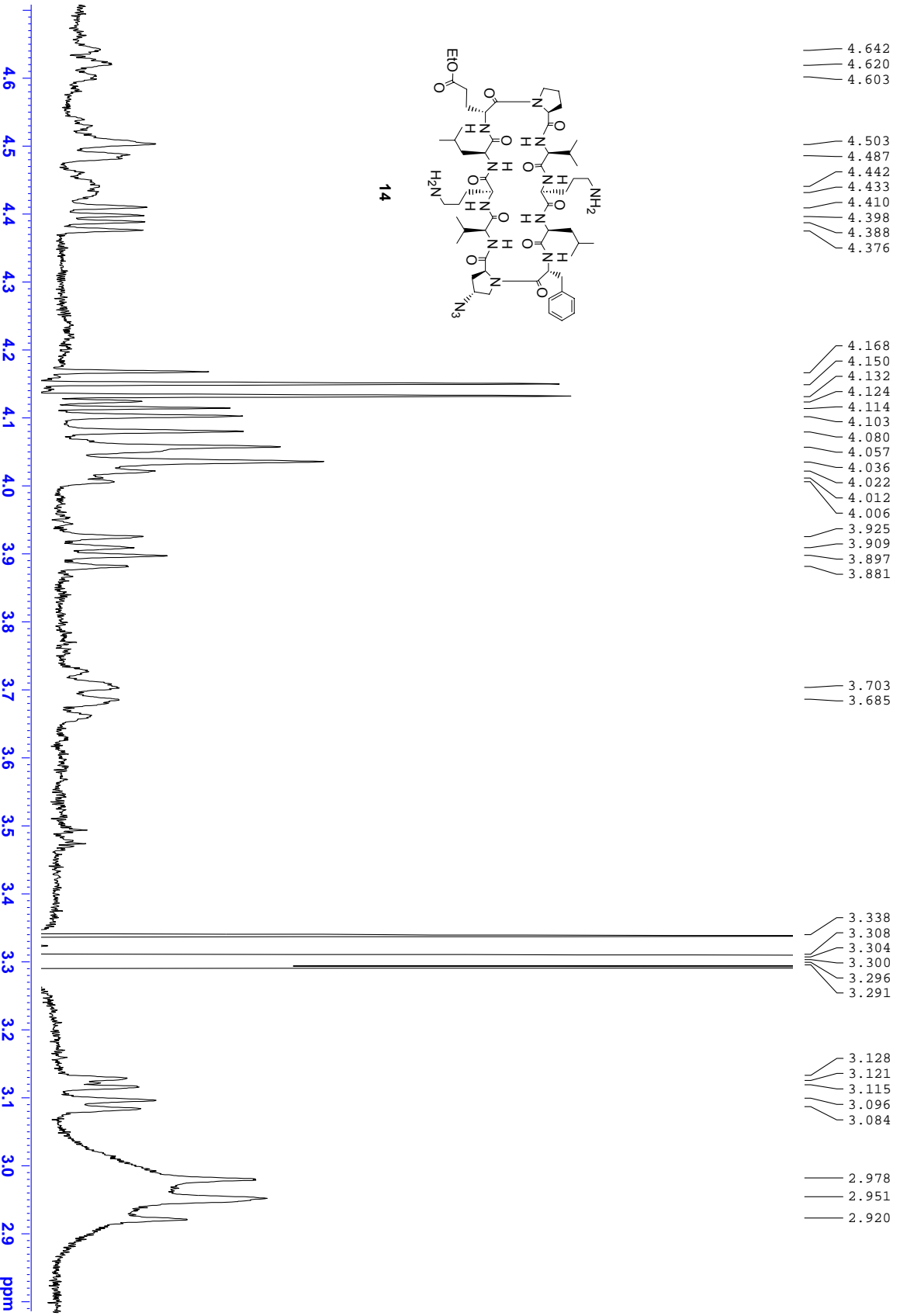
7.377
7.372
7.355
7.337
7.327
7.310
7.256
7.252
7.235



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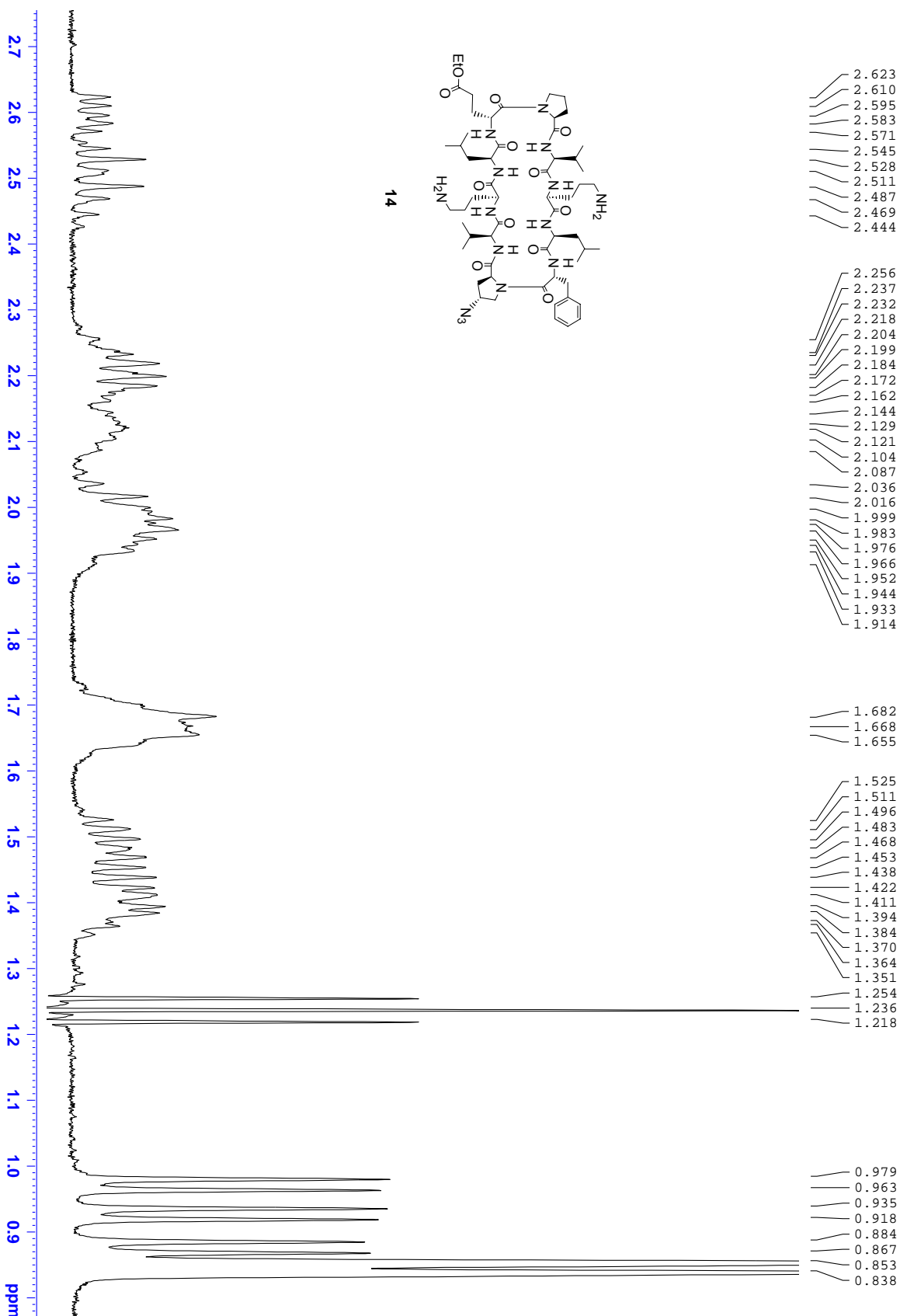


Current Data Parameters
NAME g1j804203
EXPNO 6
PROCNO 1
F2 - Acquisition Parameters
Date_ 20030405
Time 15.21
INSTRUM avance400
PROBHD 5 mm BBI 1H-BB
PULPROG zgpg
TD 19228
SOLVENT MeOD
NS 64
DS 0
SWH 4807.692 Hz
FIDRES 0.250036 Hz
AQ 1.9997621 sec
RG 456.1
DM 104.000 use
DE 8.50 use
TE 300.0 K
D1 1.0000000 sec
D12 0.000200 sec
D13 0.0000300 sec
===== CHANNEL f1 =====
NUC1 1H
P1 7.30 use
PL1 4.00 dB
PL2 52.29 dB
SFO1 400.1319379 MHz
F2 - Processing parameters
SI 32768
SF 400.1300115 MHz
WDW GM
SSB 0
LB -1.61 Hz
GB 0.4
PC 1.00



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Current Data Parameters
NAME          g1j5042003
EXPNO         6
PROCNO       1
F2 - Acquisition Parameters:
Date_         20030405
Time          15.21
INSTRUM      avacx400
PROBHD       5 mm BBI 1H-RR
PULPROG      zgpg
TD            13228
SOLVENT      MeOD
NS            64
DS            0
SWH           4807.692 Hz
FIDRES       0.250036 Hz
AQ           1.9997621 sec
RG            456.1
WDW           104.000 use
DE            8.50 use
TE            300.0 K
D1            1.00000000 sec
d12           0.00002000 sec
d13           0.00000300 sec
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 use
PL1           4.00 dB
PL2           52.29 dB
SFO1         400.131979 MHz
F2 - Processing parameters
SI            32768
SF            400.1300115 MHz
WDW           GM
SSB           0
LB            -1.61 Hz
GB            0.4
PC            1.00
  
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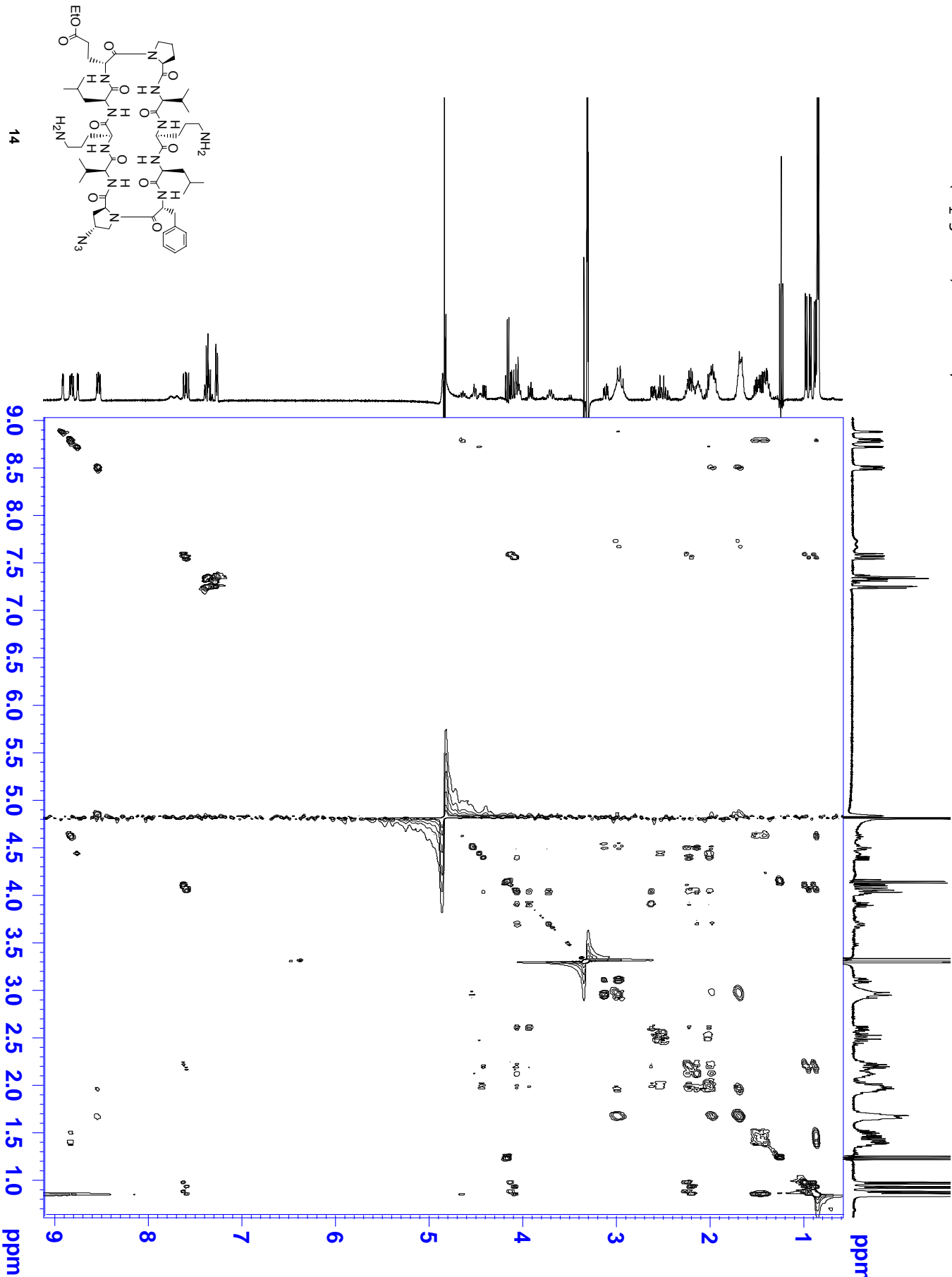


2.623	2.256	1.682	1.525	0.979
2.610	2.237	1.668	1.511	0.963
2.595	2.232	1.655	1.496	0.935
2.583	2.218		1.483	0.918
2.571	2.204		1.468	0.884
2.545	2.199		1.453	0.867
2.528	2.184		1.438	0.853
2.511	2.172		1.422	0.838
2.487	2.162		1.411	
2.469	2.144		1.394	
2.444	2.129		1.384	
	2.121		1.370	
	2.104		1.364	
	2.087		1.351	
	2.036		1.254	
	2.016		1.236	
	1.999		1.218	
	1.983			
	1.976			
	1.966			
	1.952			
	1.944			
	1.933			
	1.914			

Current Data Parameters
 NAME g1j5042003
 EXPNO 6
 PROCNO 1
 F2 - Acquisition Parameters:
 Date_ 20030405
 Time 15:21
 INSTRUM avance400
 PROBRD 5 mm BBI IH-400
 PULPROG zgpg
 TD 13228
 SOLVENT MeOD
 NS 64
 DS 0
 SWH 4807.692 Hz
 FIDRES 0.250036 Hz
 AQ 1.9997621 sec
 RG 456.1
 DW 104.000 usec
 DE 8.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 D12 0.00002000 sec
 D13 0.00000300 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 52.29 dB
 SFO1 400.131979 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300115 MHz
 WDW GM
 SSB 0
 LB -1.61 Hz
 GB 0.4
 PC 1.00

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mwcl101 (epje 1) 298 K, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME g13s042003
 EXPNO 7
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20030405
 Time 15.39
 INSTRUM advance400
 PROBRD 5 mm BBI JH-25
 PULPROG cmllepr2
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 128
 SWH 3720.238 Hz
 FIDRES 1.816522 Hz
 AQ 0.2753012 sec
 RG 2048
 DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K
 TD 0.0000300 sec
 D0 1.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec
 d13 0.00004000 sec
 D20 0.00065000 sec
 INO 0.00026880 sec
 IL 18
 MCREST 0.00000000 sec
 MCWRK 0.00999999 sec
 STCNT 256

===== CHANNEL f1 =====

NUC1 1H
 P1 6.10 usec
 P5 16.67 usec
 P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec
 PL1 4.00 dB
 PL9 52.29 dB
 PL10 16.50 dB
 SFO1 400.131975 MHz

F1 - Acquisition Parameters

NUC0 1H
 SFO1 400.1319 MHz
 FIDRES 7.266090 Hz
 SW 9.298 ppm
 FMODE States-TPPI

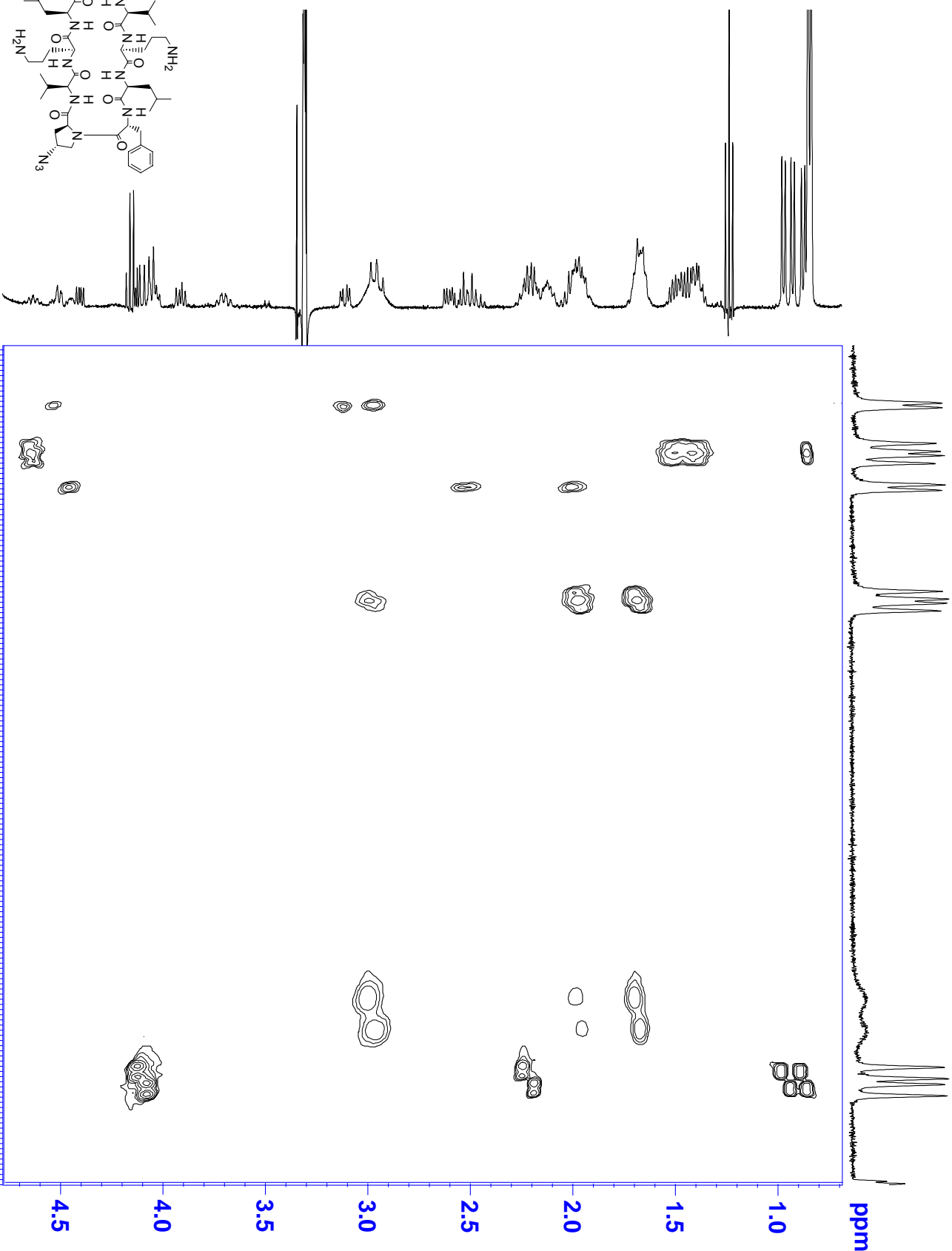
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SI 2048
 SF 400.1300115 MHz
 MDW QSIINE
 SSB 2.3 Hz
 LB 0.00 Hz
 GB 1.00

F1 - Processing parameters

SI 1024
 States-TPPI
 MC2 400.1300065 MHz
 SF QSIINE
 MDW 2.1 Hz
 SSB 0.00 Hz
 LB 0
 GB

mwcl101 (epje 1) 298 K, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME g1j3042003
 EXPNO 7
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20030405
 Time 15.39
 INSTRUM advance400
 PROBRD 5 mm BBI JH-285
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 128
 SWH 3720.238 Hz
 FIDRES 1.816522 Hz
 AQ 0.2753012 sec
 RG 2048
 DW 134.400 usec
 DE 8.50 usec
 TE 300.0 K

TD 1
 D1 0.0000300 sec
 d11 0.03000000 sec
 d12 0.00002000 sec
 d13 0.00000400 sec
 D20 0.00006500 sec
 INO 0.00026880 sec
 I1 18
 MCREST 0.00000000 sec
 MCWRR 0.00999999 sec
 STICNT 256

===== CHANNEL f1 =====

NUC1 1H
 P 6.10 usec
 P5 16.67 usec
 P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec
 PL1 4.00 dB
 PL9 52.29 dB
 PL10 16.50 dB
 SFO1 400.1319775 MHz

F1 - Acquisition Parameters

NUC2 1H
 SFO2 400.1319 MHz
 FIDRES 7.266090 Hz
 SW 9.298 ppm
 FMODE States-TPPI

F2 - Processing parameters

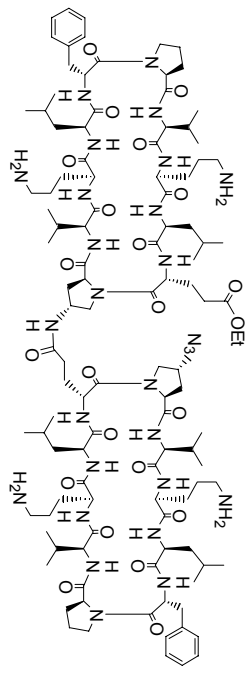
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 SF 400.1300115 MHz
 WDW QSI
 SSB 2.3 Hz
 GB 0.00 Hz
 PC 1.00

F1 - Processing parameters

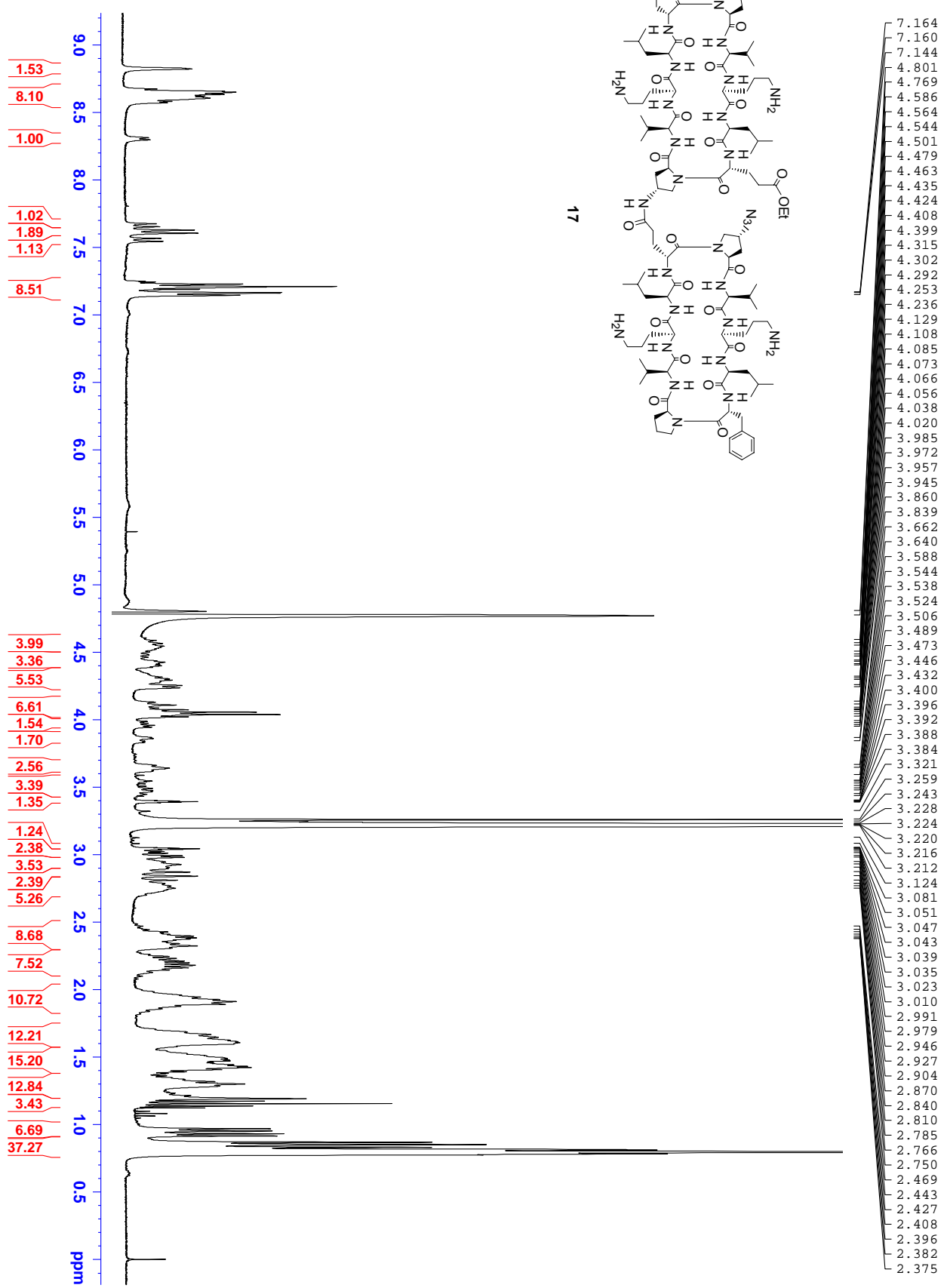
SI 1024
 MC2 States-TPPI
 SF 400.1300065 MHz
 WDW QSI
 SSB 2.1 Hz
 GB 0.00 Hz

14

mwe0806 - dimer N3/Et turn 1H, bbi-av400



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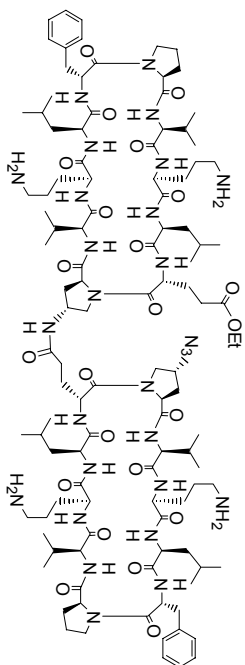
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Current Data Parameters
NAME      G13052004
EXPNO    1
PROCNO   1
F2 - Acquisition Parameters
Date_    20040915
Time     10.01
INSTRUM  avance400
PROBHD   5 mm BBI 1H-BB
PULPROG  zgpg
TD        19228
SOLVENT  H2O
NS        1024
DS        0
SWH       4807.692 Hz
FIDRES    0.250036 Hz
AQ        1.9997621 sec
RG        256
DW        104.000 usec
DE        226.0
TE        298.0 K
D1        1.00002000 sec
d12       0.00000000 sec
MCOREST   0.00000000 sec
MCMARK    0.01500000 sec

===== CHANNEL f1 =====
NUC1      1H
P1        7.30 usec
PL1       4.00 dB
PL19      58.54 dB
SFO1      400.1319575 MHz

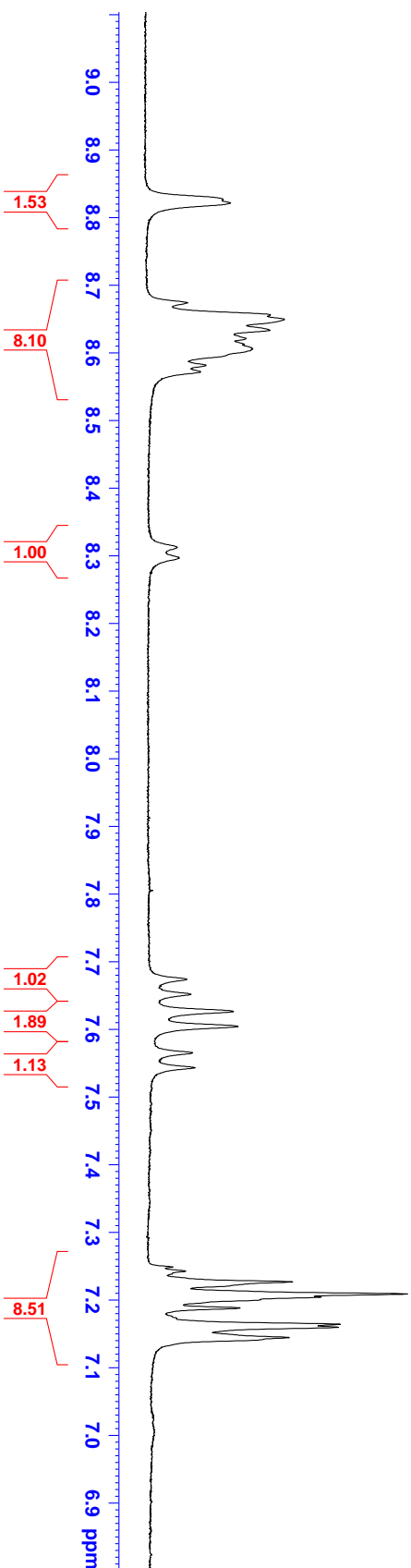
F2 - Processing parameters
SI        32768
SF        400.1300435 MHz
WDW       EM
SSB       0
GB        0
PC        1.00
  
```

mwe0806 - dimer N3/Et turn 1H, bbi-av400



17

8.821	8.821
8.673	8.673
8.649	8.649
8.633	8.633
8.620	8.620
8.606	8.606
8.581	8.581
8.571	8.571
8.312	8.312
8.296	8.296
7.674	7.674
7.652	7.652
7.627	7.627
7.604	7.604
7.566	7.566
7.543	7.543
7.249	7.249
7.242	7.242
7.227	7.227
7.209	7.209
7.204	7.204
7.188	7.188
7.164	7.164
7.160	7.160
7.144	7.144



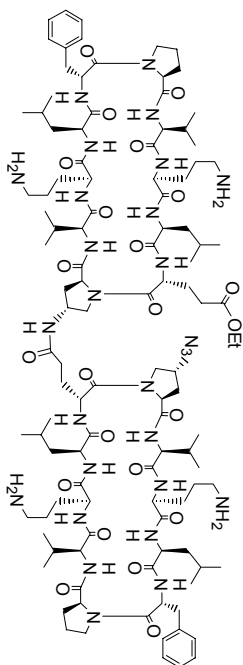
```

Current Data Parameters
NAME          G1J5092004
EXPNO         1
PROCNO        1
F2 - Acquisition Parameters
Date_         20040915
Time          10.01
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpr
TD            19228
H2O           H2O
SOLVENT      1024
NS            1024
DS            0
SWH           4807.692 Hz
FIDRES        0.250036 Hz
AQ            1.9997621 sec
RG            104.000 usec
DE            8.50 usec
TE            298.0 K
D1            1.0000200 sec
d12           0.0000000 sec
MCPRST       0.0000000 sec
MCRMK        0.01500000 sec

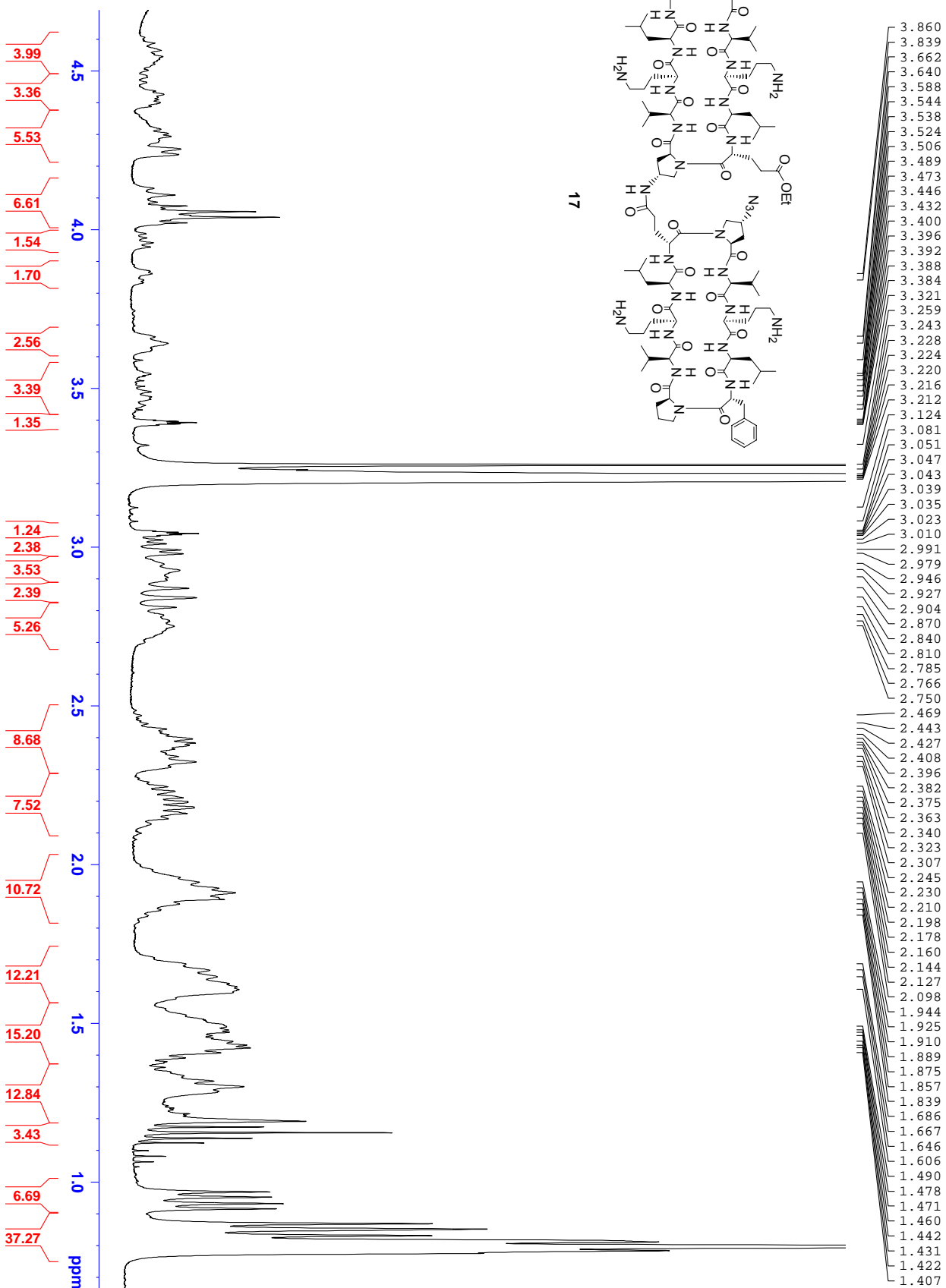
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           58.54 dB
PL9           400.1319575 MHz
SFO1          400.1319575 MHz

F2 - Processing parameters
SI            32768
SF            400.1300435 MHz
WDW           EM
SSB           0
LB            0.00 Hz
GB            0
PC            1.00
  
```

mwe0806 - dimer N3/Et turn 1H, bbi-av400



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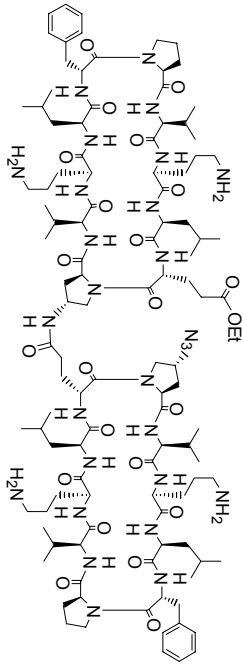
```

Current Data Parameters
NAME          G1J5092004
EXPNO        1
PROCNO       1
F2 - Acquisition Parameters
Date_        20040915
Time_        10.01
INSTRUM      advanced400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpr
TD            19228
SOLVENT      H2O
NS            1024
DS            0
SWH           4807.692 Hz
AQ            0.250036 Hz
RG            1.9997621 sec
DE            256
DM            104.000 usec
DI            38.90
DE            28.0 K
D12           1.00002000 sec
MCOREST      0.00000000 sec
MCMWRX       0.01500000 sec

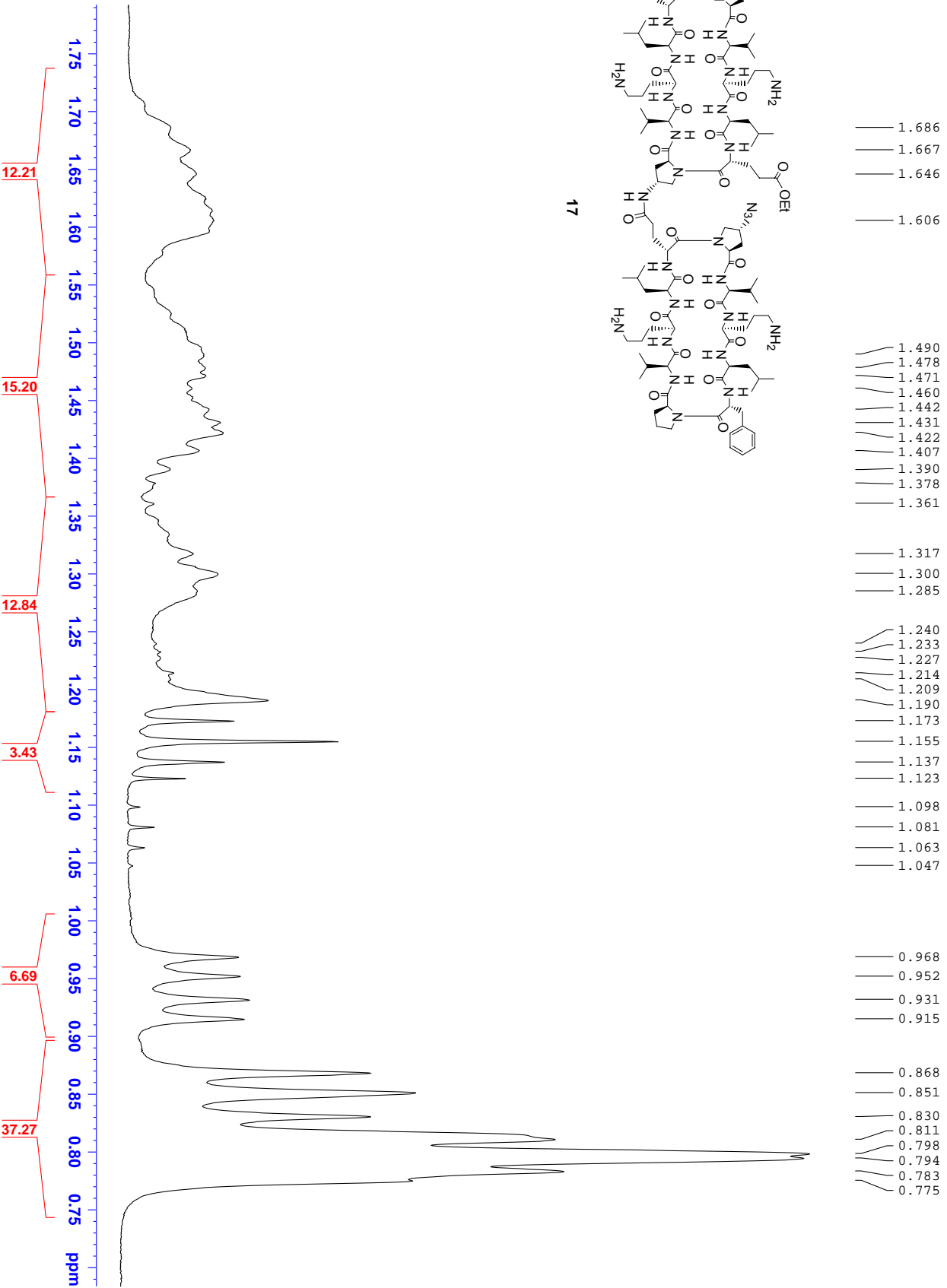
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL19         58.54 dB
SF01         400.1319575 MHz

F2 - Processing parameters
SI            32768
SF            400.1300435 MHz
WDW           EM
SSB           0
GB            0
PC            1.00
  
```


mwe0806 - dimer N3/Et turn 1H, bbi-av400



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1.686	
1.667	
1.646	
1.606	
1.490	
1.478	
1.471	
1.460	
1.442	
1.431	
1.422	
1.407	
1.390	
1.378	
1.361	
1.317	
1.300	
1.285	
1.240	
1.233	
1.227	
1.214	
1.209	
1.190	
1.173	
1.155	
1.137	
1.123	
1.098	
1.081	
1.063	
1.047	
0.968	
0.952	
0.931	
0.915	
0.868	
0.851	
0.830	
0.811	
0.798	
0.794	
0.783	
0.775	

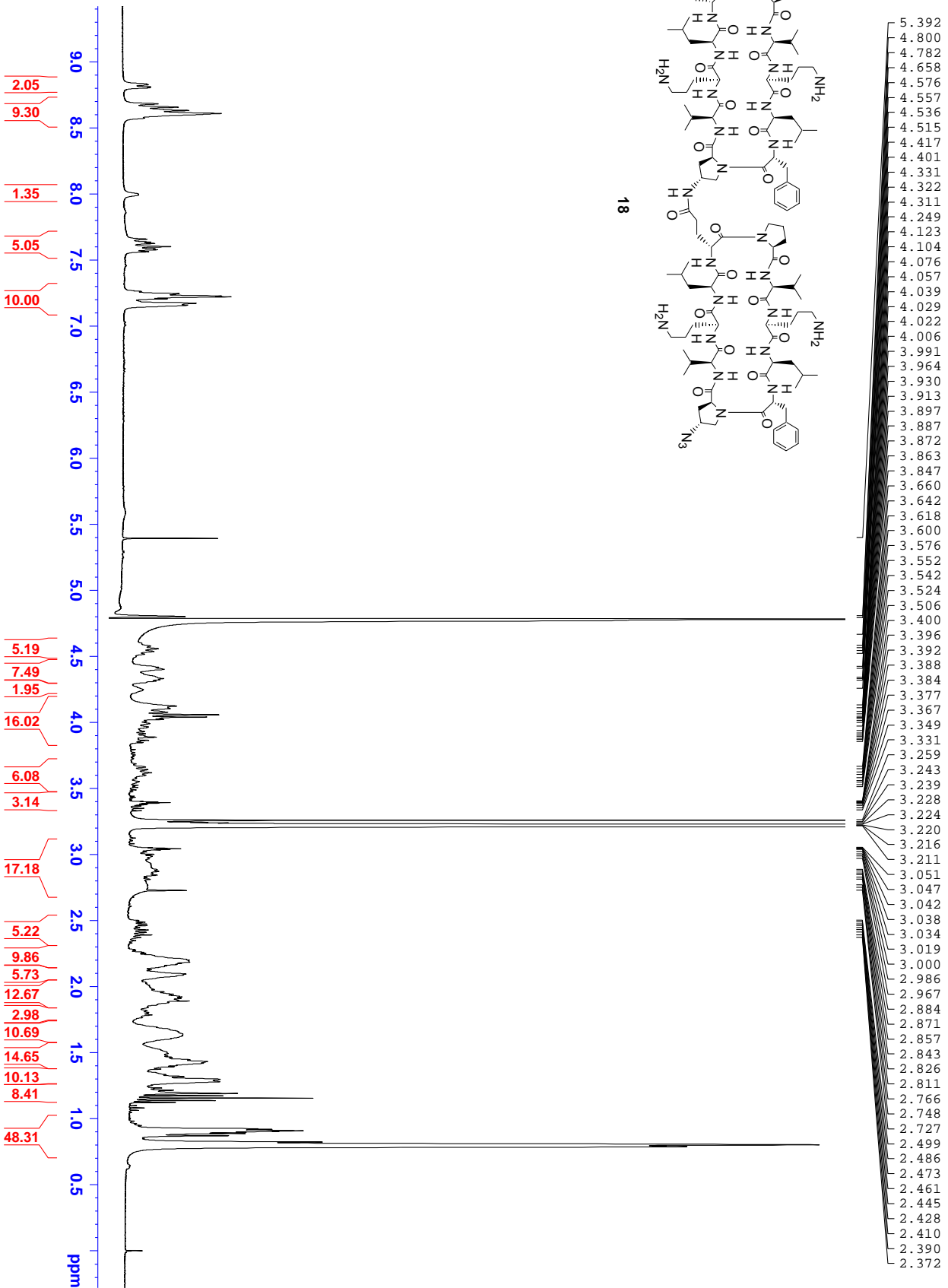
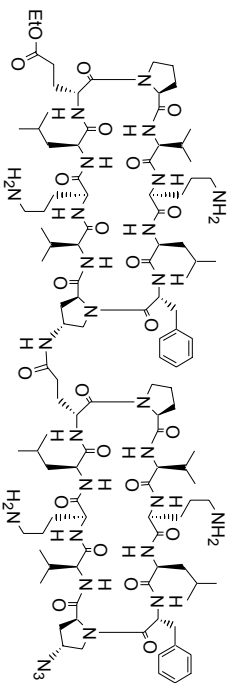
```

Current Data Parameters
NAME      GJ5092004
EXPNO     1
PROCNO    1
F2 - Acquisition Parameters
Date_     20040915
Time      10.01
INSTRUM   avance400
PROBHD    5 mm BBI 1H-BB
PULPROG   zgpr
TD         19228
SOLVENT   H2O
NS         1024
DS         0
SWH        4807.692 Hz
FIDRES     0.250036 Hz
AQ         1.9997621 sec
RG         256
DW         104.000 usec
DE         8.90 usec
TE         298.0 K
D1         1.00000000 sec
d12        0.00000000 sec
MCOREST   0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1       1H
P1         7.30 usec
PL1        4.00 dB
PL2
PL3
PL9        58.54 dB
SFO1       400.1319575 MHz

F2 - Processing parameters
SI         32768
SF         400.1300435 MHz
WDW        EM
SSB        0
LB         0.00 Hz
GB         0
PC         1.00
  
```

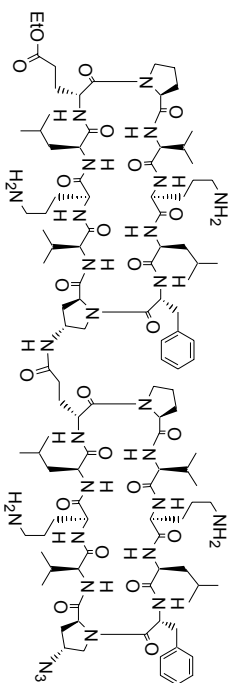
mwc0801 - dimer N3/Et sheet 1H, bbi-av400



```

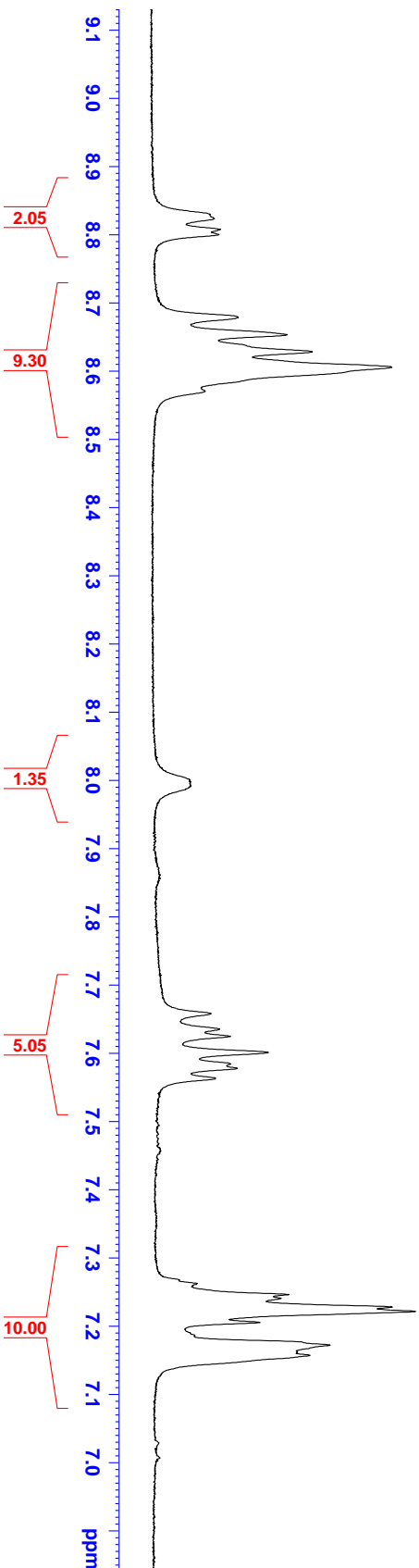
Current Data Parameters
NAME          G1J5092004
EXPNO         4
PROCNO        1
F2 - Acquisition Parameters
Date_         20040915
Time          13.00
INSTRUM       advanced400
PROBHD        5 mm BBI 1H-BB
PULPROG       zgpr
TD            19228
SOLVENT       MeOD
NS            1024
DS            0
SWH           4807.692 Hz
FIDRES       0.250036 Hz
AQ           1.9997621 sec
RG           256
DE           104.000 usec
TE           28.50 usec
DE           28.50 usec
D1           1.00002000 sec
d12          0.00002000 sec
MORREST      0.00000000 sec
MCWRRX       0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1          4.00 dB
PL2          60.89 dB
PL9          400.1319575 MHz
SF01         400.1300436 MHz
F2 - Processing parameters
SI           32768
SF           400.1300436 MHz
WDW          EM
SSB          0
GB           0
CB           0.00 Hz
DB           0
PC           1.00
    
```



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8.823	8.807	8.800
8.678	8.653	8.628
8.605	8.570	
7.992		
7.658	7.635	7.624
7.601	7.584	7.577
7.563		
7.262	7.246	7.240
7.227	7.221	7.205
7.171	7.157	

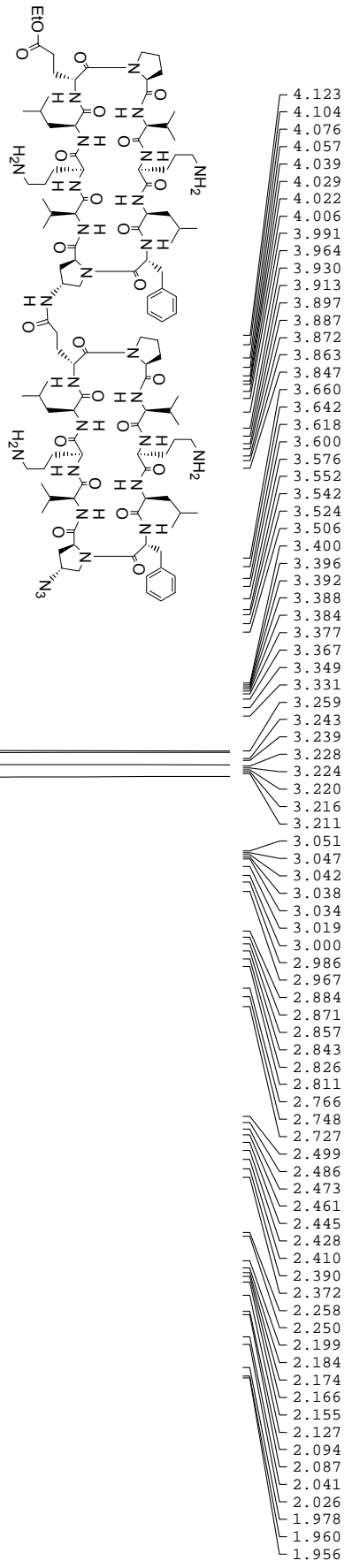


```

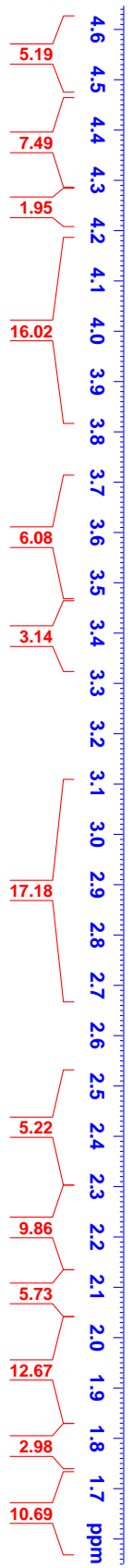
Current Data Parameters
NAME          G1J5092004
EXPNO         4
PROCNO       1
F2 - Acquisition Parameters
Date_        20040915
Time         13.00
INSTRUM     avance400
PROBHD      5 mm BBI 1H-BB
PULPROG     zgpr
TD          19228
SOLVENT     MeOD
NS          1024
DS          0
SWH         4807.692 Hz
FIDRES     0.250036 Hz
AQ         1.9997621 sec
RG         286
DE         104.000 use
TE         8.50 use
D1         2.9810 K
d12        1.0000200 sec
MCPRST     0.0000000
MCMRST     0.01500000 sec

===== CHANNEL f1 =====
NUC1        1H
P1          7.30 use
PL1         4.00 dB
PL2         60.89 dB
SFO1        400.1319575 MHz

F2 - Processing parameters
SI          32768
SF          400.1300436 MHz
WDW         EM
SSB         0
LB          0.00 Hz
GB          0
PC          1.00
    
```



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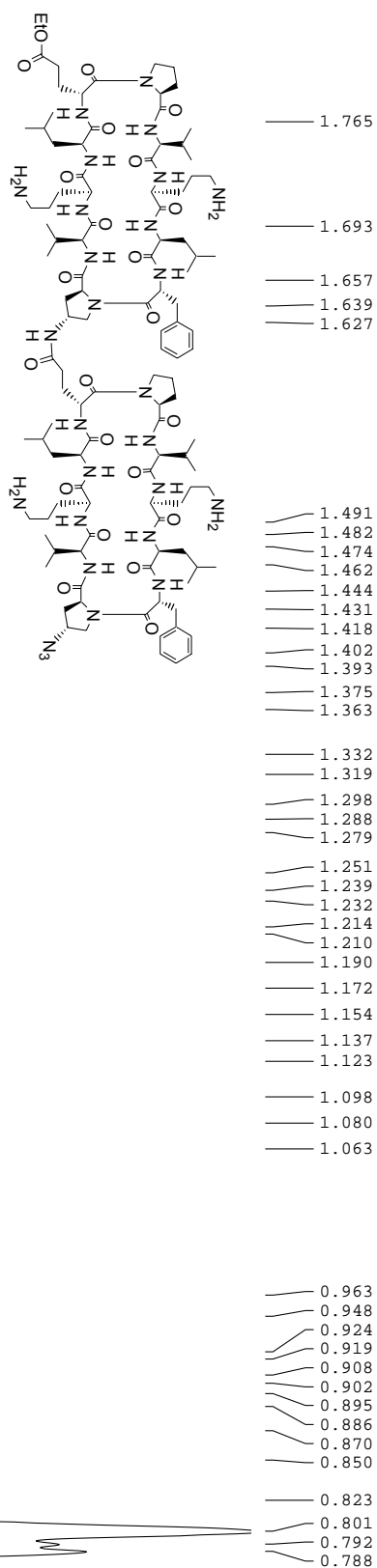
```

Current Data Parameters
NAME          G1J5092004
EXPNO         4
PROCNO       1
F2 - Acquisition Parameters
Date_         20040915
Time_         13.00
INSTRUM       advanced400
PROBHD        5 mm BBI 1H-BB
PULPROG       zgpg
TD             19228
SOLVENT       MeOD
NS            1024
DS            0
SWH           4807.692 Hz
AQ            0.250036 Hz
RG            256
DE           104.000 usec
TE            28.90
D1            1.00000000 sec
d12           0.00002000 sec
MCWRES1      0.00000000 sec
MCWRES2      0.01500000 sec

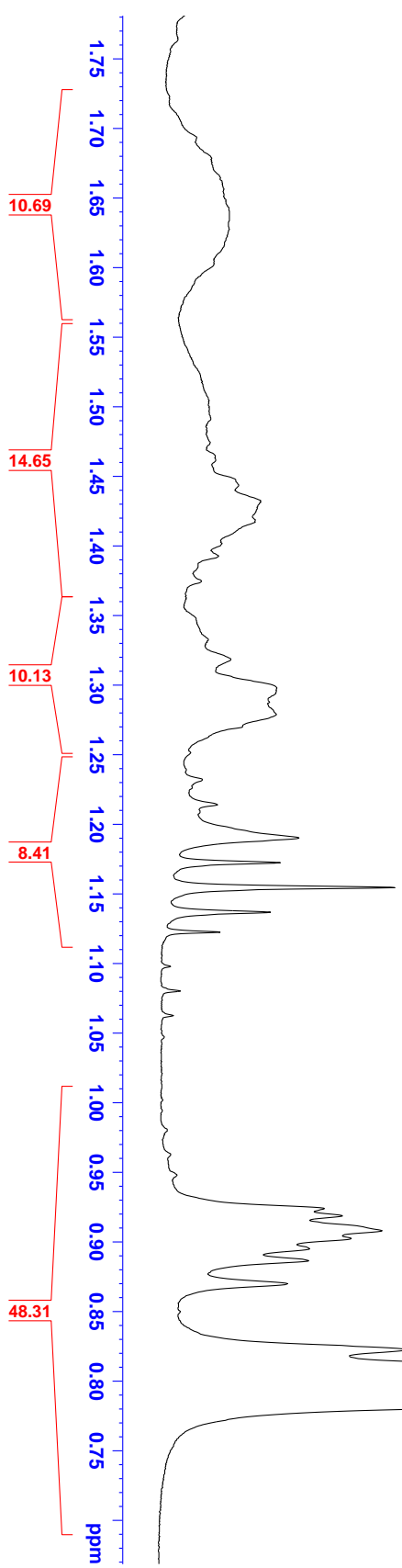
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           60.89 dB
PL9
SF01          400.1319575 MHz

F2 - Processing parameters
SI            32768
SF            400.1300436 MHz
WDW           EM
SSB           0
GB            0
PC            1.00
  
```

mwc0801 - dimer N3/Et sheet 1H, bbi-av400



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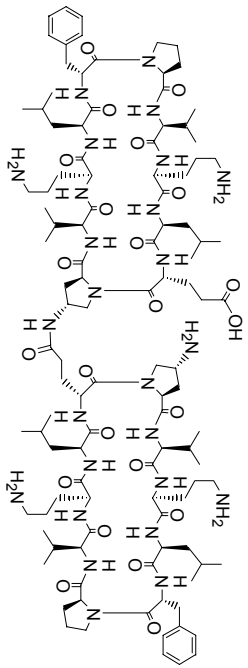
```

Current Data Parameters
NAME          G158092004
EXPNO         4
PROCNO        1
F2 - Acquisition Parameters
Date_         20040915
Time         13.00
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpg
TD            19228
SOLVENT      MeOD
NS            1024
DS            0
SWH           4807.692 Hz
FIDRES        0.250036 Hz
AQ            1.9997621 sec
RG            256
DW            104.000 usec
DE            8.50 usec
TE            298.0 K
D1            1.0000200 sec
d12           0.0000000 sec
MCOREST      0.0000000 sec
MCWRK        0.01500000 sec

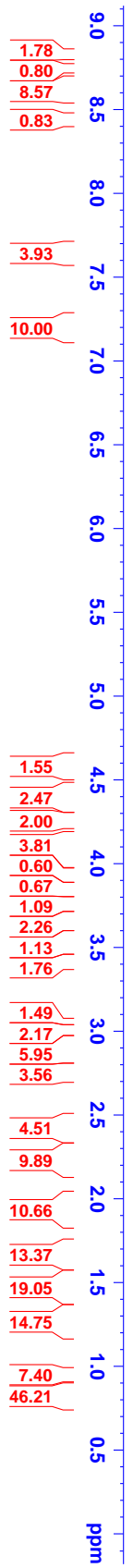
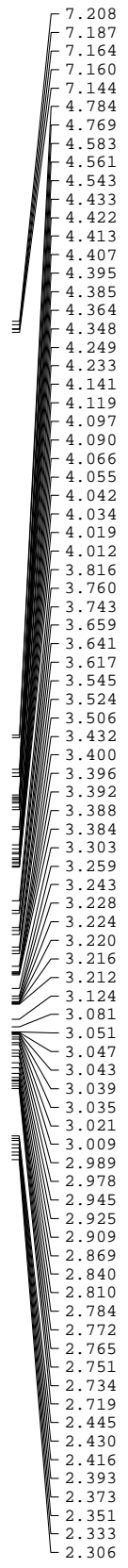
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           60.89 dB
SFO1         400.1319575 MHz

F2 - Processing parameters
SI            32768
SF            400.1300436 MHz
WDW           EM
SSB           0
LB            0.00 Hz
GB            0
PC            1.00
    
```

mwe1501 - dimer NH2/COOH turn 1H, bbi-av400

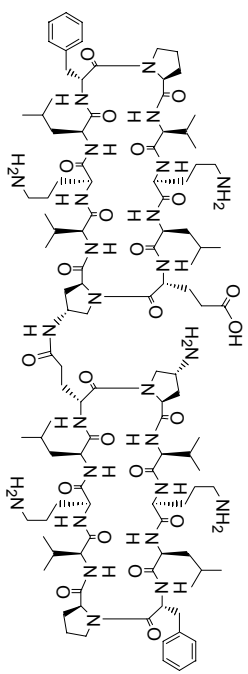


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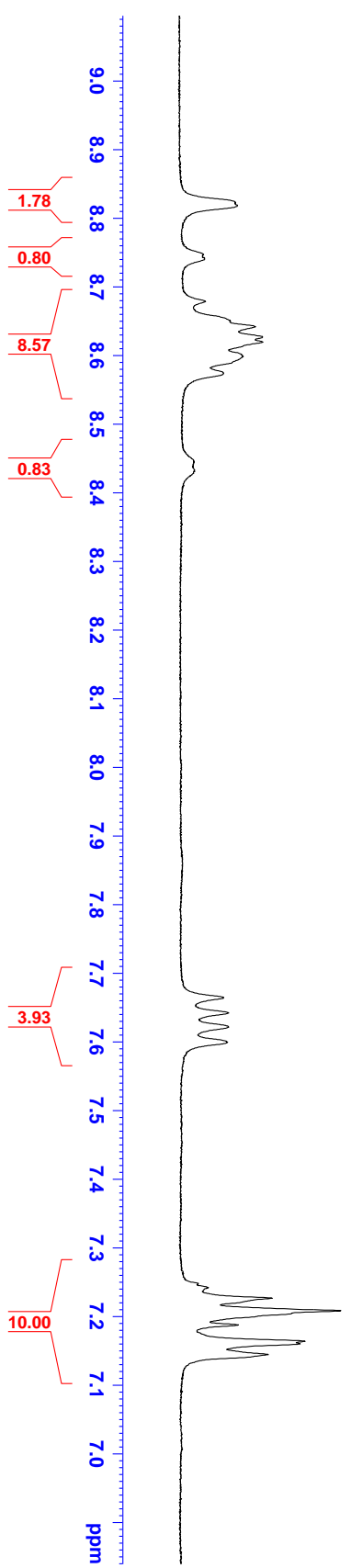
Current Data Parameters
 NAME G13602004
 EXPNO 3
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20040915
 Time 11.43
 INSTRUM avance400
 PROBD 5 mm BBI 1H-BB
 PULPROG zgpg
 TD 19228
 SOLVENT MeOD
 NS 1024
 DS 0
 SWH 4807.692 Hz
 FIDRES 0.250036 Hz
 AQ 1.9997621 sec
 RG 256
 DW 104.000 usec
 DE 8.50 usec
 TE 298.0 K
 D1 1.0000200 sec
 d12 0.0000000 sec
 MCREST 0.0000000 sec
 MCWRR 0.01500000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 58.54 dB
 SF01 400.1319575 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300435 MHz
 WDW EM
 SSB 0
 GB 0
 DB 0
 PC 1.00

mwe1501 - dimer NH2/COOH turn 1H, bbi-av400



21

8.818	
8.747	
8.741	
8.679	
8.642	
8.626	
8.619	
8.598	
8.574	
8.445	
8.432	
7.665	
7.642	
7.621	
7.599	
7.247	
7.242	
7.226	
7.208	
7.187	
7.164	
7.160	
7.144	



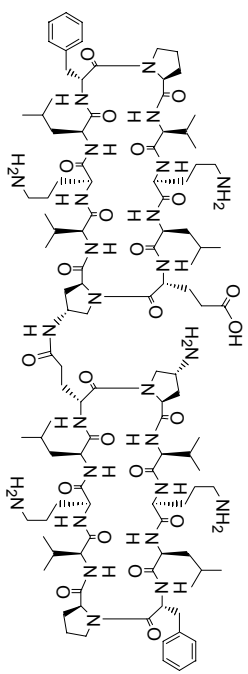
```

Current Data Parameters
NAME          G1J5092004
EXPNO         3
PROCNO       1
F2 - Acquisition Parameters
Date_         20040915
Time          11.43
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpr
TD            19228
SOLVENT      MeOD
NS            1024
DS            0
SWH           4807.692 Hz
FIDRES       0.250036 Hz
AQ           1.9997621 sec
RG           286
DE           104.000 use
DM           8.50 use
PE           28.0
DE           1.0000000 sec
d12          0.0000000 sec
MCPRST      0.0000000
MCMRK       0.01500000 sec

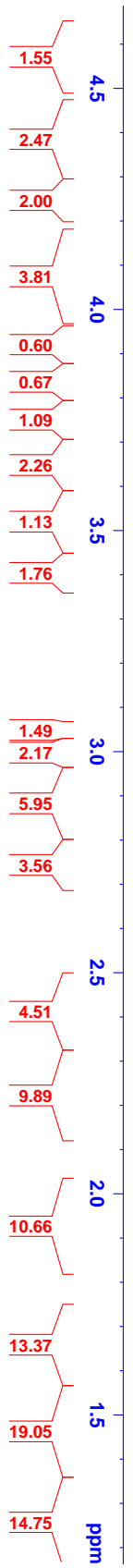
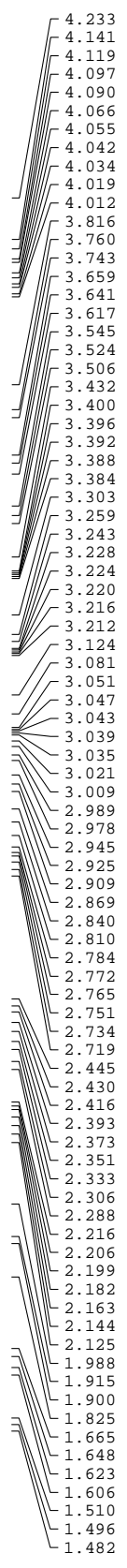
===== CHANNEL f1 =====
NUC1         1H
P1           7.30 use
PL1          4.00 dB
PL9          58.54 dB
SFO1         400.1319575 MHz

F2 - Processing parameters
SI           32768
SF           400.1300435 MHz
WDW          EM
SSB          0
LB           0.00 Hz
GB           0
PC           1.00
  
```

mwe1501 - dimer NH2/COOH turn 1H, bbi-av400



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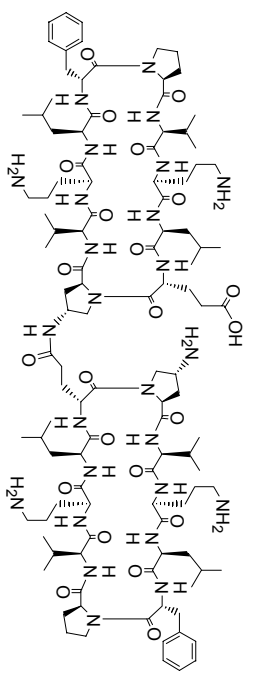
```

Current Data Parameters
NAME          G1J5092004
EXPNO         3
PROCNO        1
F2 - Acquisition Parameters
Date_         20040915
Time_         11.43
INSTRUM       avance400
PROBHD        5 mm BBI 1H-BB
PULPROG       zgpr
TD            19228
SOLVENT       MeOD
NS            1024
DS            0
SWH           4807.692 Hz
AQ            0.250036 Hz
RG            256
DE            104.000 usec
TE            28.50 K
D1            1.00002000 sec
d12           0.00002000 sec
MCWRES1      0.00000000 sec
MCWRES2      0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           58.54 dB
SF01          400.1319575 MHz

F2 - Processing parameters
SI           32768
SF           400.1300435 MHz
WDW          EM
SSB          0
GB           0
CB           0
PC           1.00
    
```


mwe1501 - dimer NH2/COOH turn 1H, bbi-av400



21

1.665	
1.648	
1.623	
1.606	
1.510	
1.496	
1.482	
1.468	
1.450	
1.437	
1.421	
1.404	
1.388	
1.373	
1.334	
1.321	
1.304	
1.286	
1.269	
1.262	
1.251	
1.232	
1.214	
1.208	
1.190	
1.160	
1.143	
1.131	
1.123	
1.098	
1.080	
1.063	
1.047	
1.002	
0.983	
0.941	
0.927	
0.912	
0.867	
0.850	
0.832	
0.814	
0.809	
0.795	
0.774	



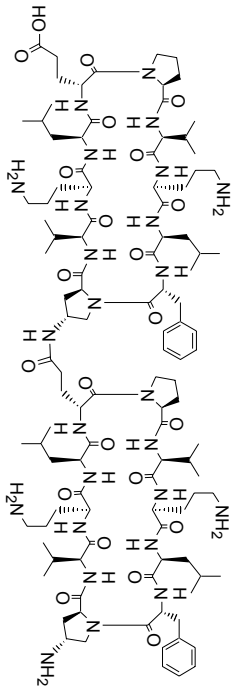
```

Current Data Parameters
NAME          G158092004
EXPNO        3
PROCNO       1
F2 - Acquisition Parameters
Date_        20040915
Time         11.43
INSTRUM     avance400
PROBHD      5 mm BBI 1H-BB
PULPROG     zgpg
TD           19228
SOLVENT     MeOD
NS           1024
DS           0
SWH          4807.692 Hz
FIDRES       0.250036 Hz
AQ           1.9997621 sec
RG           256
DW           104.000 usec
DE           38.50 usec
TE           298.0 K
D1           1.0000000 sec
d12          0.0000000 sec
MCOREST     0.0000000 sec
MCWRK       0.01500000 sec

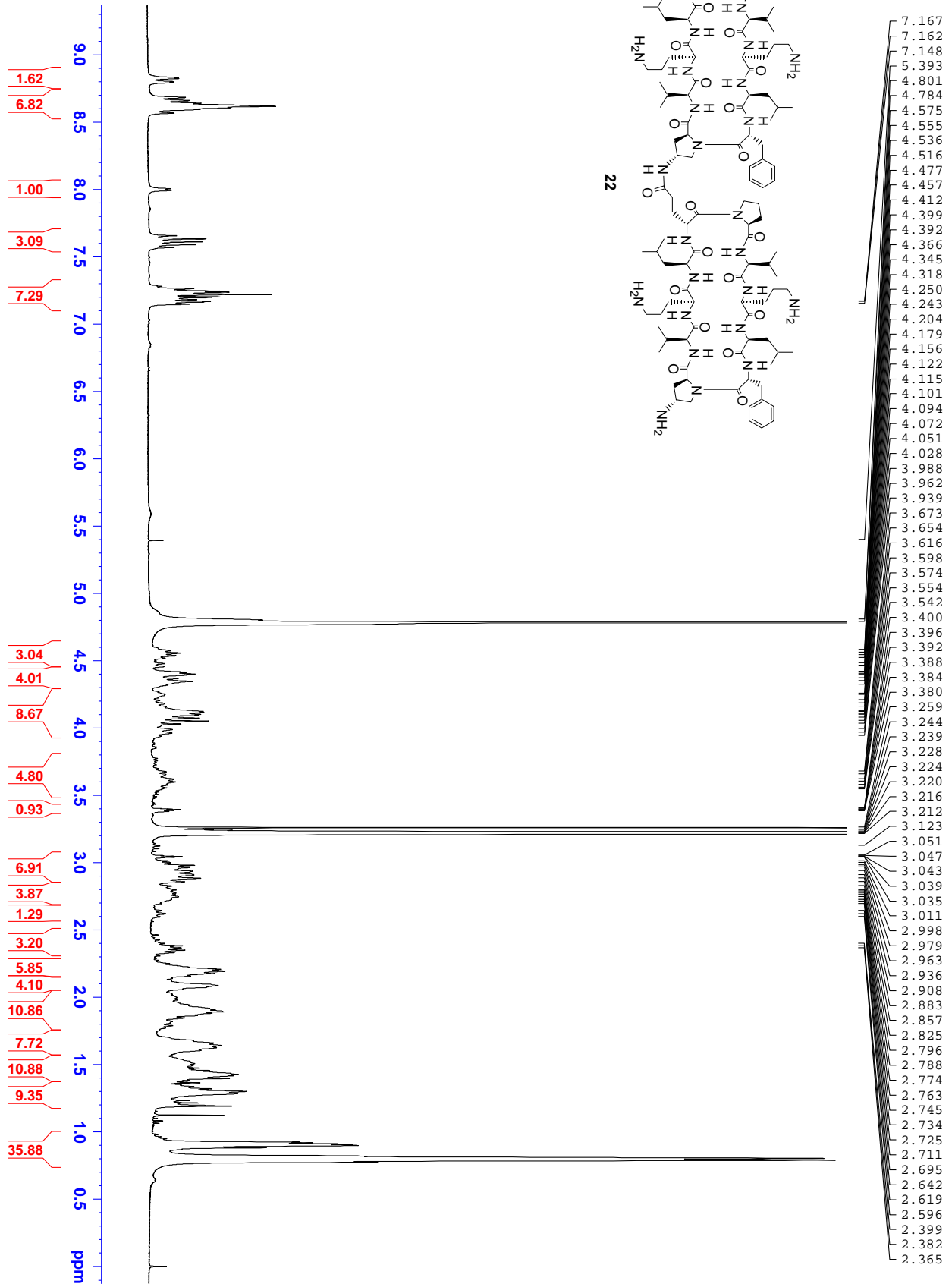
===== CHANNEL f1 =====
NUC1         1H
P1           7.30 usec
PL1          4.00 dB
PL2          58.54 dB
SFO1        400.1319575 MHz

F2 - Processing parameters
SI           32768
SF           400.1300435 MHz
WDW          EM
SSB          0
LB           0
GB           0
PC           1.00
  
```

mwc1501 - dimer NH2/COOH sheet 1H, bbi-av400



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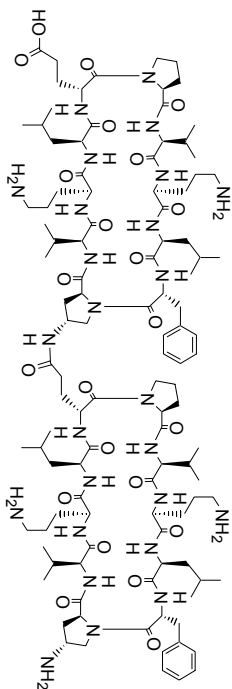
```

Current Data Parameters
NAME          G15092004
EXPNO         5
PROCNO       1
F2 - Acquisition Parameters
Date_        20040915
Time         14.09
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpg
TD            19228
SOLVENT      MeOD
NS            1024
DS            0
SWH           4807.692 Hz
FIDRES        0.250036 Hz
AQ            1.9997621 sec
RG            256
DM            104.000 usec
DE            28.90 usec
TE            300.2 K
D1            1.00002000 sec
d12           0.00000000 sec
MCREST       0.00000000 sec
MCWRX        0.01500000 sec

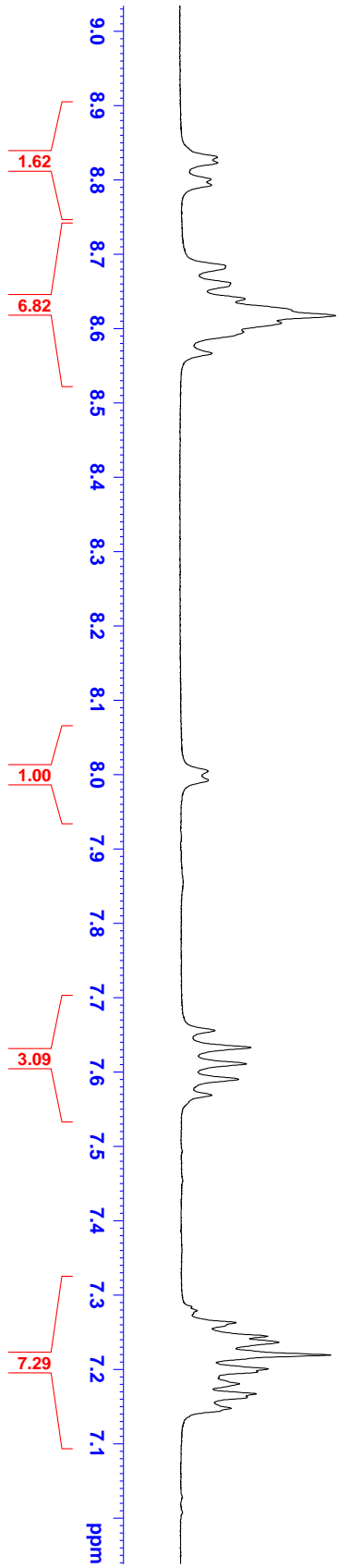
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL19         60.89 dB
SF01         400.1319579 MHz

F2 - Processing parameters
SI            32768
SF            400.1300433 MHz
WDW           EM
SSB           0
GB            0
CB            0.00 Hz
DB            0
PC            1.00
  
```

mwc1501 - dimer NH2/COOH sheet 1H, bbi-av400



- 8.830
- 8.823
- 8.800
- 8.792
- 8.684
- 8.660
- 8.639
- 8.617
- 8.607
- 8.595
- 8.566
- 8.005
- 7.992
- 7.655
- 7.632
- 7.611
- 7.590
- 7.568
- 7.279
- 7.263
- 7.245
- 7.237
- 7.219
- 7.201
- 7.197
- 7.181
- 7.167
- 7.162
- 7.148



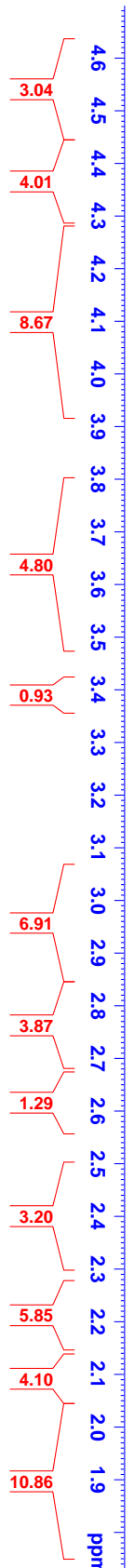
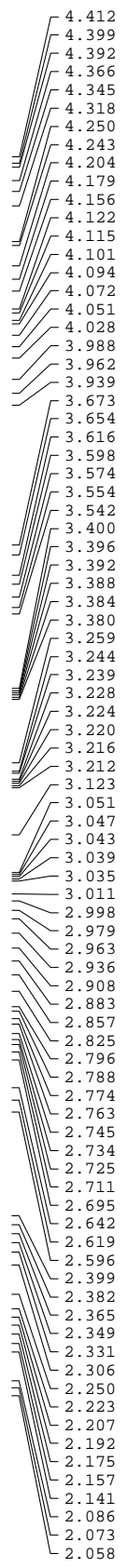
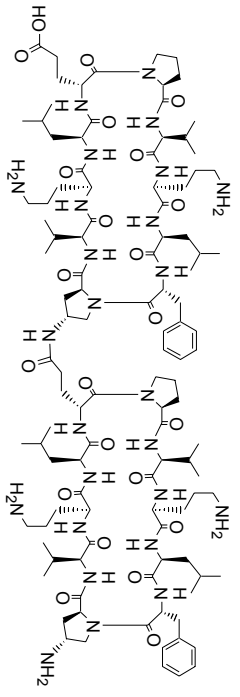
Current Data Parameters
 NAME G1J5092004
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040915
 Time 14.09
 INSTRUM advance400
 PROBRD 5 mm BBI 1H-BB
 PULPROG zgpr
 TD 19228
 MeOD
 SOLVENT MeOD
 NS 1024
 DS 0
 SWH 4807.692 Hz
 FIDRES 0.250036 Hz
 AQ 1.9997621 sec
 RG 286
 DW 104.000 usec
 DE 8.50 usec
 TE 298.10 K
 D1 1.0000200 sec
 d12 0.0000200 sec
 MCPRST 0.00000000
 MCMRK 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 usec
 PL1 4.00 dB
 PL9 60.89 dB
 SFO1 400.1319579 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300433 MHz
 WDW EM
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

mwcl501 - dimer NH2/COOH sheet 1H, bbi-av400



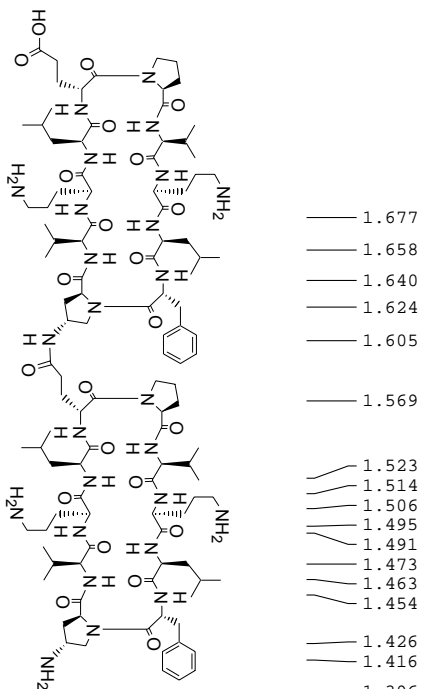
```

Current Data Parameters
NAME          G1J5092004
EXPNO         5
PROCNO        1
F2 - Acquisition Parameters
Date_         20040915
Time          14.09
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpr
TD            19228
SOLVENT      MeOD
NS            1024
DS            0
SWH           4807.692 Hz
AQ            0.250036 Hz
RG            256
DM            104.000 usec
DE            28.90 usec
TE            300.2 K
D12           0.00002000 sec
MCOREST      0.00000000 sec
MCMRFX       0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL2           60.89 dB
SF01          400.1319579 MHz

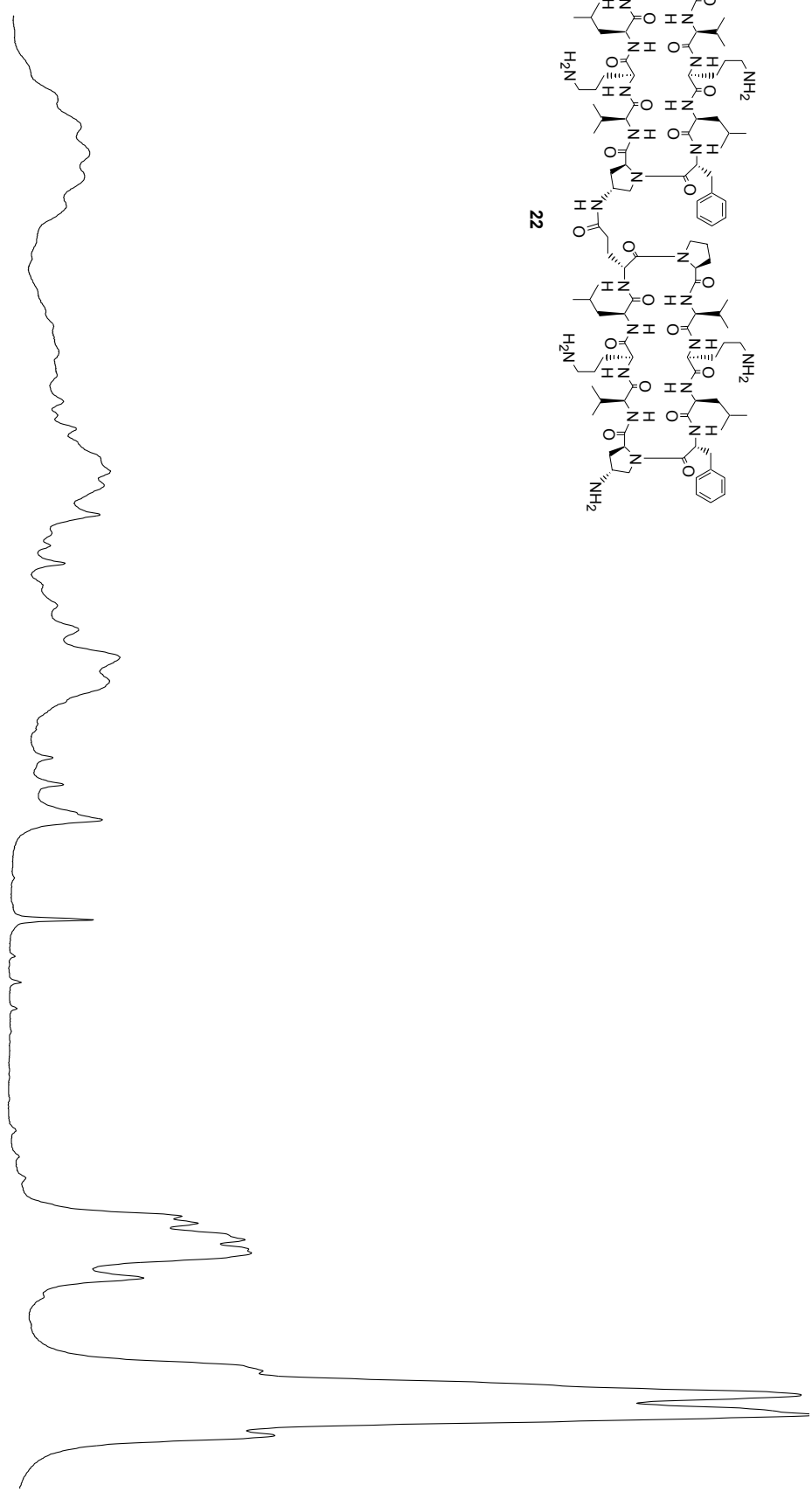
F2 - Processing parameters
SI            32768
SF            400.1300433 MHz
WDW           EM
SSB           0
GB            0
PC            1.00
  
```

mwc1501 - dimer NH2/COOH sheet 1H, bbi-av400



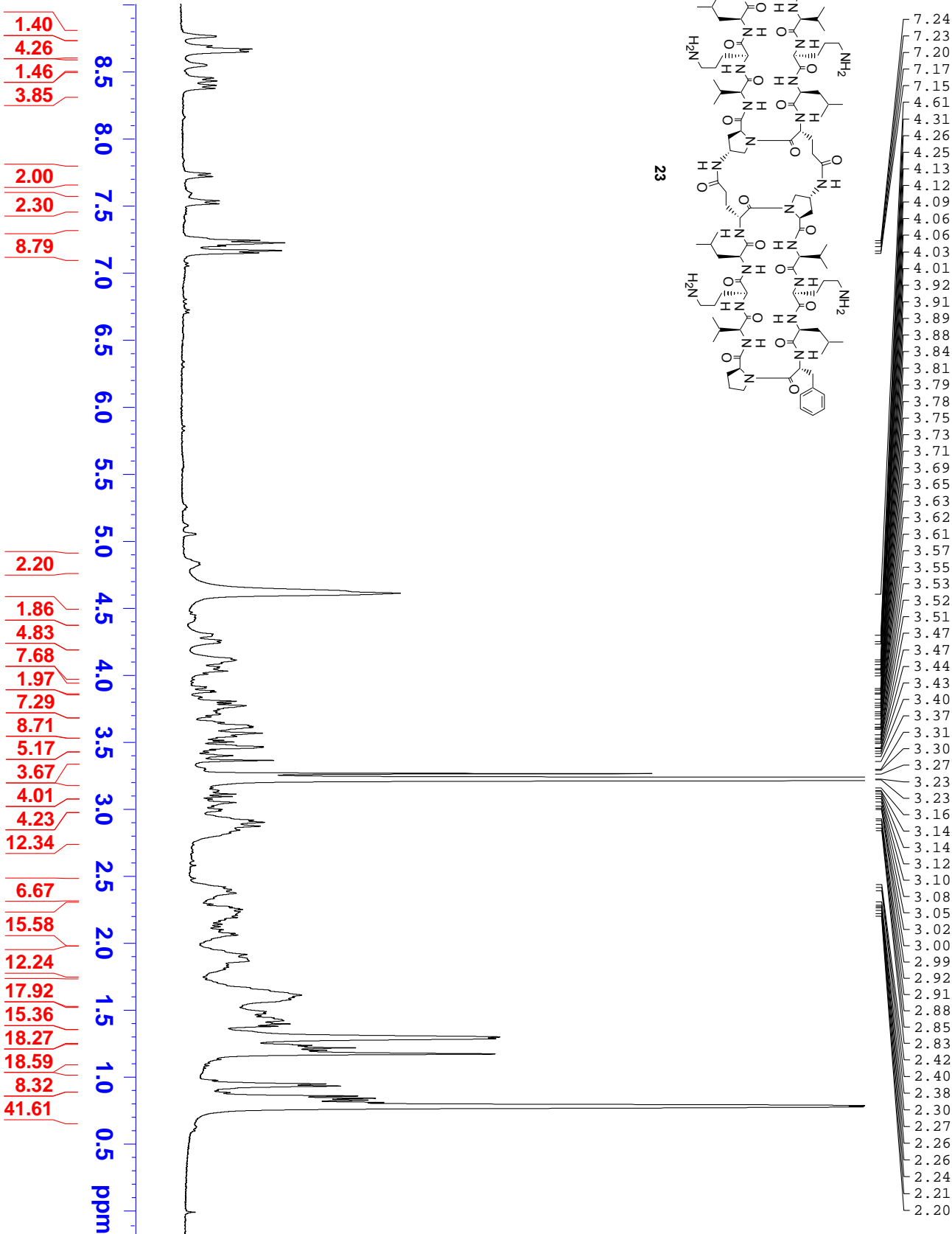
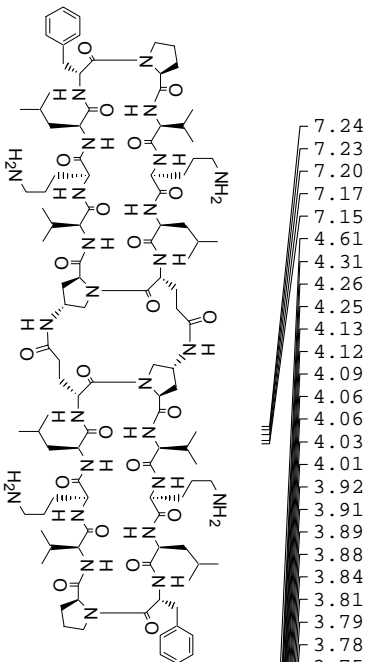
22

1.677	1.658	1.640	1.624	1.605	1.569	1.523	1.514	1.506	1.495	1.491	1.473	1.463	1.454	1.426	1.416	1.396	1.384	1.375	1.363	1.349	1.335	1.319	1.300	1.284	1.255	1.232	1.214	1.190	1.123	1.081	0.963	0.949	0.923	0.918	0.907	0.901	0.898	0.881	0.869	0.819	0.802	0.789	0.775
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



Current Data Parameters
 NAME G1J5092004
 EXPNO 5
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20040915
 Time 14.09
 INSTRUM avance400
 PROBDI 5 mm BBI 1H-BB
 PULPROG zgpr
 TD 19228
 MeOD
 SOLVENT 1024
 NS 0
 DS 4807.692 Hz
 SWH 0.250036 Hz
 FIDRES 1.9997621 sec
 AQ 286
 RG 104.000 use
 DW 8.90 use
 DE 28.0 K
 TE 300.2 K
 D1 1.00002000 sec
 d12 0.00000000 sec
 MCRST 0.01500000 sec
 MCWRK 0.01500000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 7.30 use
 PL1 4.00 dB
 PL9 60.89 dB
 SFO1 400.1319579 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300433 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.00

dimer over turn 1h nmr av-400 ATM-bbiggs probe



```

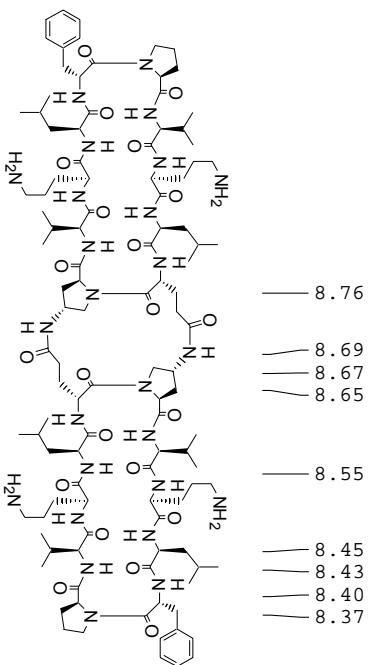
Current Data Parameters
NAME          G1jso72003
EXPNO         2
PROCNO        1

F2 - Acquisition Parameters
Date_         20030723
Time          10.20
INSTRUM      avance400
PROBHD       5 mm BBI 1H-BB
PULPROG      zgpg2
TD           13228
SOLVENT      MeD2
NS           128
DS           2
SH           4807.692 Hz
FIDRES       0.250036 Hz
AQ           1.9997621 sec
RG           1.992281
DE           104.000 usec
TE           300.0 K
D1           1.00000000 sec
d12          0.00002000 sec
d13          0.00000300 sec

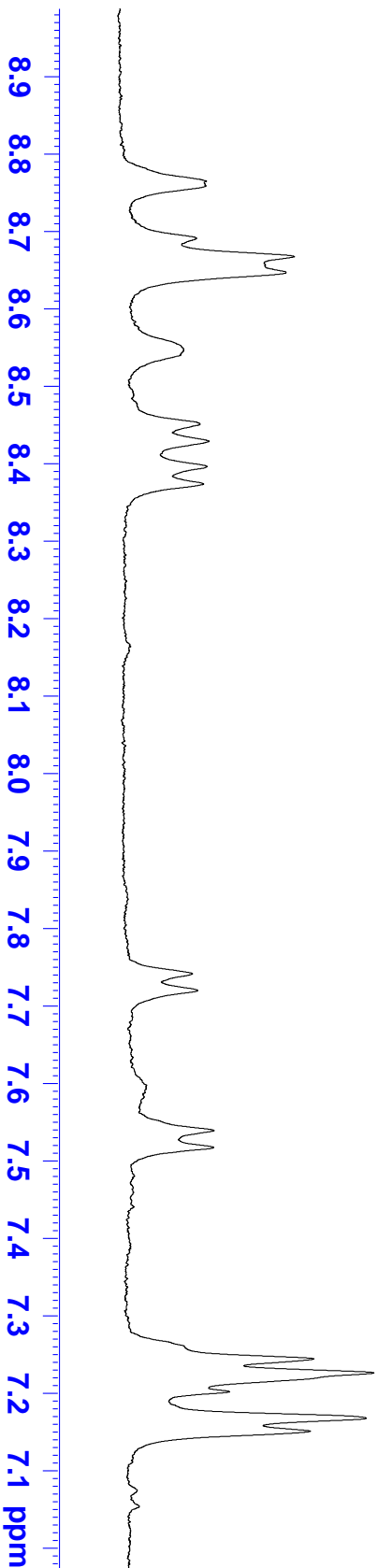
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL9           58.19 dB
SFO1         400.1318653 MHz

F2 - Processing parameters
SI           131072
SF           400.1300389 MHz
WDW          EM
SSB          0
LB           0.50 Hz
GB           0
PC           1.00
    
```

dimer over turn 1h nmr av-400 ATM-bbiggs probe



8.76	
8.69	
8.65	
8.55	
8.45	
8.43	
8.40	
8.37	
7.74	
7.72	
7.54	
7.52	
7.24	
7.23	
7.20	
7.17	
7.15	



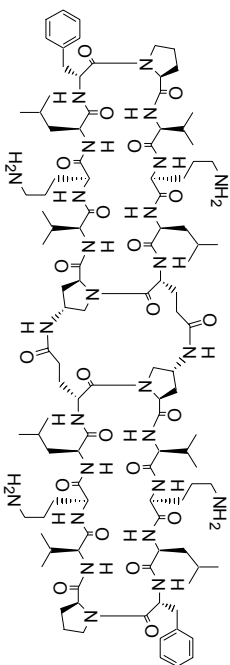
```

Current Data Parameters
NAME          GIJ5072003
EXPNO         1
PROCNO        1
F2 - Acquisition Parameters
Date_         20030723
Time          10.20
INSTRUM       avance400
PROBHD        5 mm BBI 1H-BB
PULPROG       zgpg
TD            13228
SOLVENT       MeOD
DS            128
SFE           4807.692 Hz
FIDRES        0.250036 Hz
AQ            1.9997621 sec
RG            228.1
DE            104.000 usec
DM            8.50 usec
TE            300.0 K
D1            1.00000000 sec
d12           0.00002000 sec
d13           0.00000300 sec

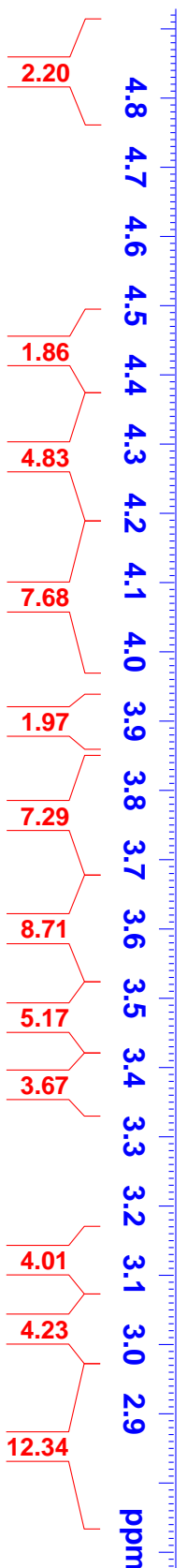
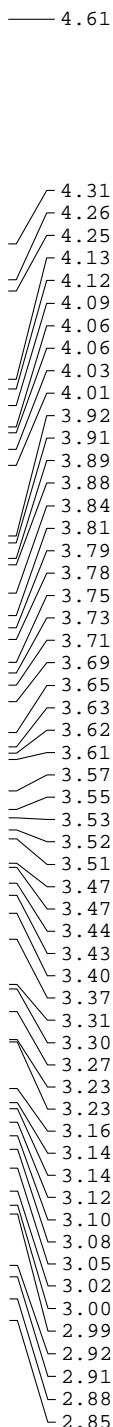
===== CHANNEL f1 =====
NUC1          1H
P1            7.30 usec
PL1           4.00 dB
PL19          58.19 dB
SF01          400.1318653 MHz

F2 - Processing Parameters
SI            131072
SF            400.1300389 MHz
WDW           EM
SSB           0
LB            0.50 Hz
GB            0
PC            1.00
  
```

dimer over turn 1h nmr av-400 ATM-bbiggs probe



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```

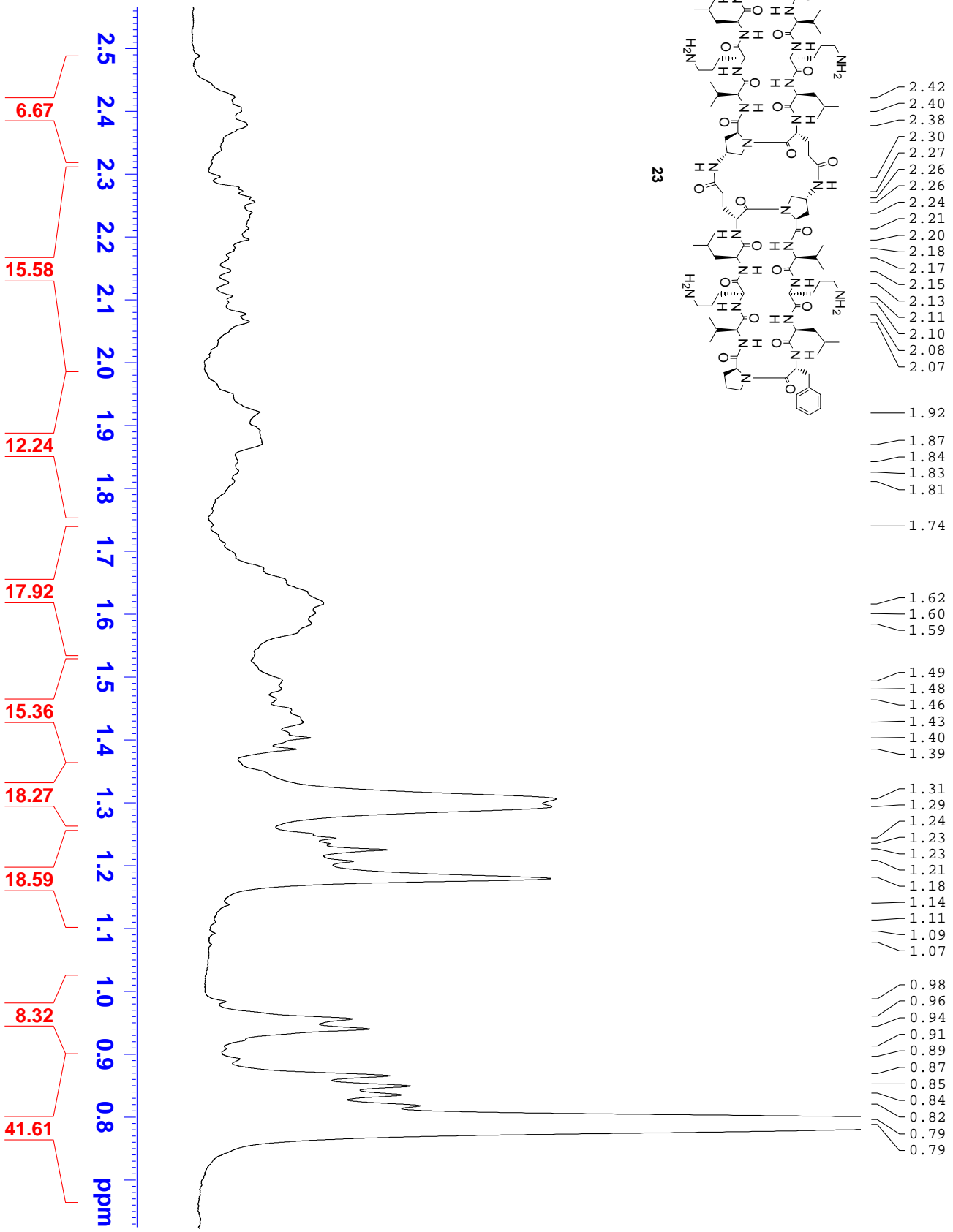
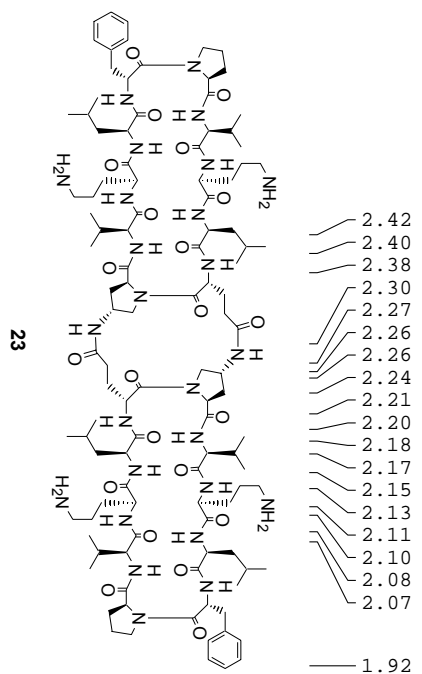
Current Data Parameters
NAME      G1js072003
EXPNO     2
PROCNO    1

F2 - Acquisition Parameters
Date_     20030723
Time      10.20
INSTRUM   avance400
PROBHD    5 mm BBI 1H-BB
PULPROG   zgpg2
TD         13228
SOLVENT   MeD2O
NS         128
DS         2
SH         4807.692 Hz
FIDRES    0.2560036 Hz
AQ         1.9997621 sec
RG         1.992281
DE         104.000 usec
TE         300.0 K
D1         1.00000000 sec
d12        0.00002000 sec
d13        0.00000300 sec

===== CHANNEL f1 =====
NUC1       1H
P1         7.30 usec
PL1        4.00 dB
PL9        58.19 dB
SFO1       400.1318653 MHz

F2 - Processing parameters
SI         131072
SF         400.1300389 MHz
WDW        EM
SSB        0
LB         0.50 Hz
GB         0
PC         1.00
  
```


dimer over turn 1h nmr av-400 ATM-bbigs probe



```

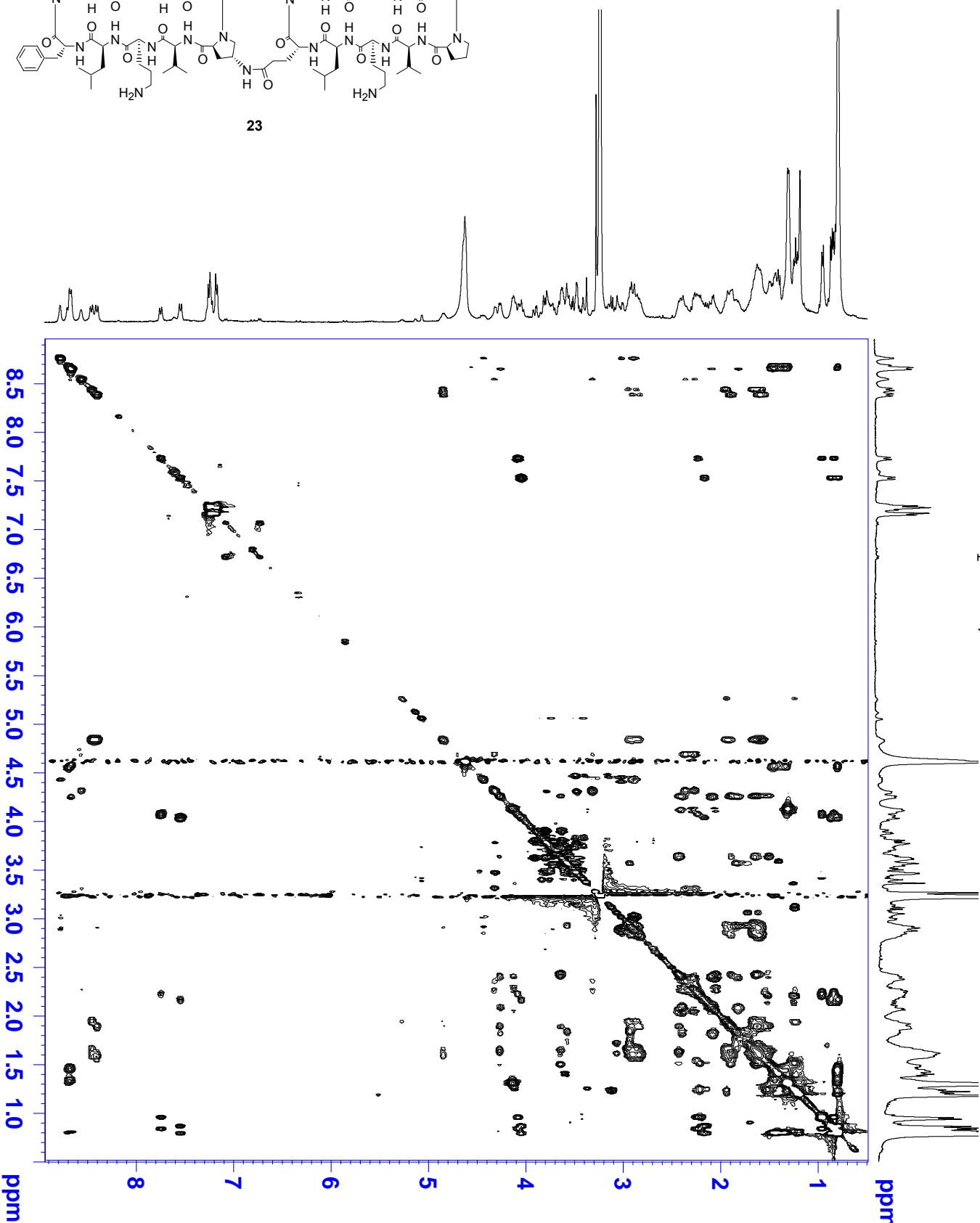
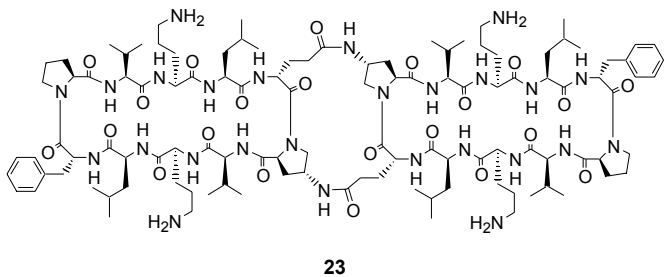
Current Data Parameters
NAME      G4js072003
EXPNO     1
PROCNO    2

F2 - Acquisition Parameters
Date_     20030723
Time      10.20
INSTRUM   avance400
PROBHD    5 mm BBI-5B5
PULPROG   zgpg2
TD         13228
SOLVENT   MeOD
NS         128
DS         2
SWH        4807.692 Hz
FIDRES     0.250026 Hz
AQ          1.99297621 sec
RG          1.9722841
DE          104.000 usec
TE          300.0 K
D1          1.00000000 sec
D12         0.00002000 sec
D13         0.00000300 sec

===== CHANNEL f1 =====
NUC1       1H
P1          7.30 usec
PL1         4.00 dB
PL2         58.19 dB
SFO1       400.1318863 MHz

F2 - Processing parameters
SI          131072
SF          400.1300389 MHz
WDW         EM
SSB         0
LB          0.50 Hz
GB          0
PC          1.00
  
```

dimer over turn 1h nmr av-400 ATM-bbig5 probe, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME G13s072003
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20030723
 Time 10.54

INSTRUM advance400
 PROBRD 5 mm BBI 1H-2B
 PULPROG cmllepr2
 TD 65536
 SOLVENT CDCl3

DS 256
 SWH 4807.692 Hz
 FIDRES 2.347506 Hz
 AQ 0.2130420 sec
 RG 2580.3
 DW 104.000 usec
 DE 8.50 usec
 TE 300.0 K

TD 0.0000000 sec
 D0 1.0000000 sec
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000400 sec
 D20 0.00006500 sec
 INO 0.00020800 sec
 L1 18
 MCREST 0.00000000 sec
 MCWRK 0.00999999 sec
 STCNT 256

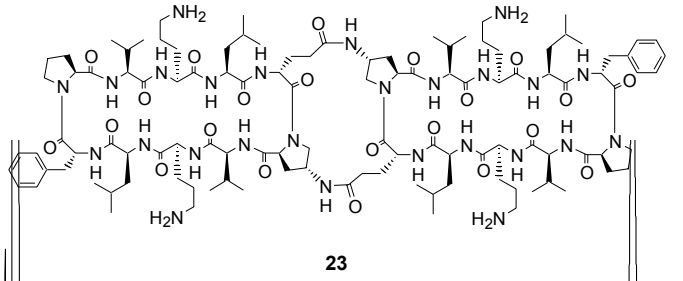
===== CHANNEL f1 =====
 NUC1 1H
 P1 6.10 usec
 P5 16.67 usec
 P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec
 PL1 4.00 dB
 PL9 58.51 dB
 PL10 16.50 dB
 SFO1 400.1318941 MHz

F1 - Acquisition Parameters
 FID 512
 SFO1 400.1318 MHz
 FIDRES 9.390024 Hz
 SW 12.015 ppm
 ENMODE States-TPPI

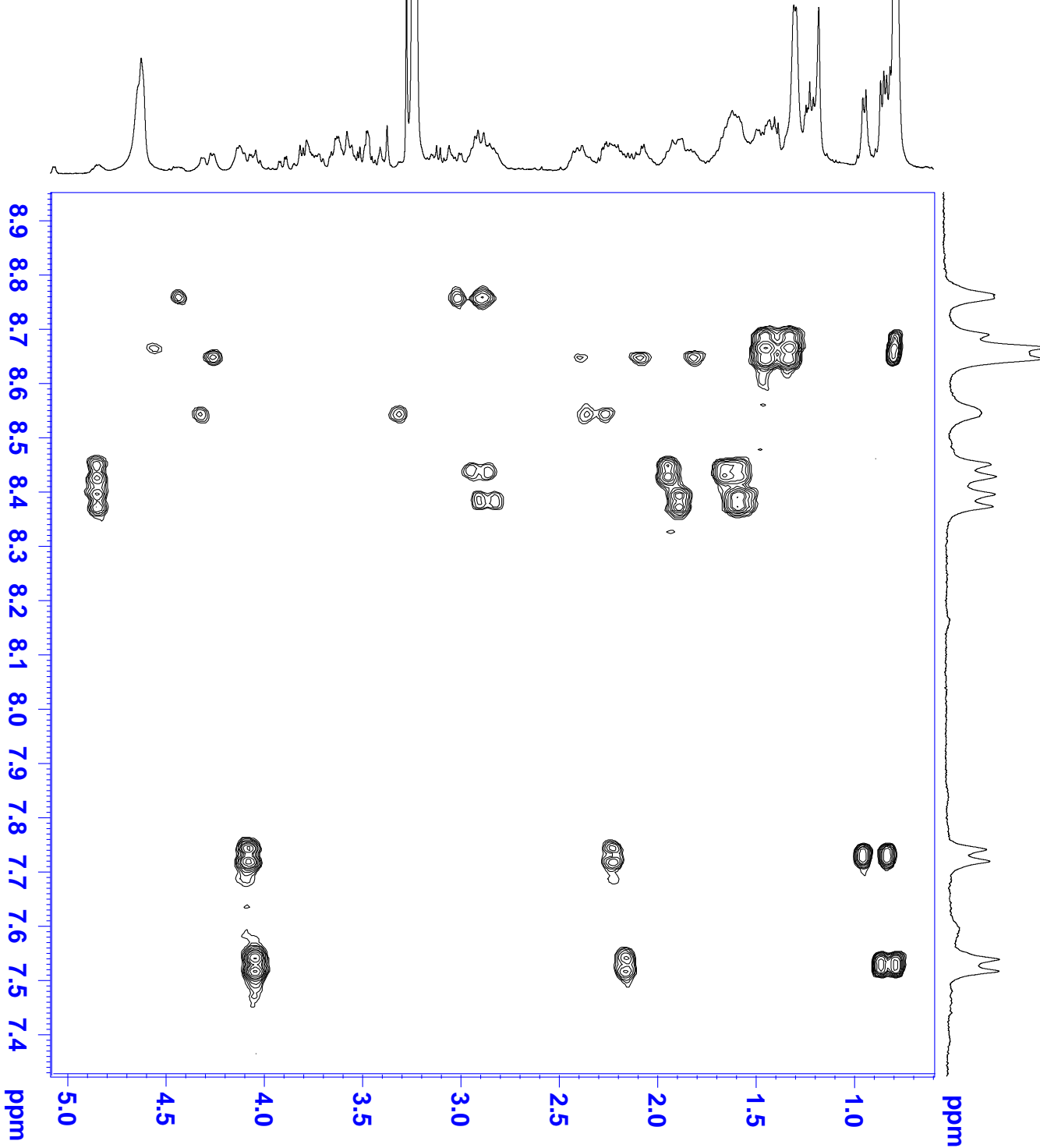
F2 - Processing parameters
 SI 2048
 SF 400.1300389 MHz
 MDW QSIGN2
 SSB 2.3 Hz
 LB 0.00 Hz
 GB 1.40
 PC

F1 - Processing parameters
 SI 1024
 States-TPPI
 MC2 400.1300389 MHz
 SF QSIGN2
 MDW 2.1 Hz
 SSB 0.00 Hz
 LB 0
 GB

dimer over turn 1h nmr av-400 ATM-bbigS probe, cleanTOCSY Tmix=70msec



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Current Data Parameters
 NAME G13s072003
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20030723
 Time 10.54

INSTRUM advance400
 PROBRD 5 mm BBI 1H-2B
 PULPROG cmlpevpr2
 TD 242
 SOLVENT CDCl3

DS 256
 SWH 4807.692 Hz
 FIDRES 2.347506 Hz
 AQ 0.2130420 sec
 RG 2580.3
 DW 104.000 usec
 DE 8.50 usec
 TE 300.0 K

TD 1.0000000 sec
 D0 1.0000000 sec
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000400 sec
 D20 0.00006500 sec
 INO 0.00020800 sec
 I1 18
 MCREST 0.00000000 sec
 MCWRK 0.00999999 sec
 STCNT 256

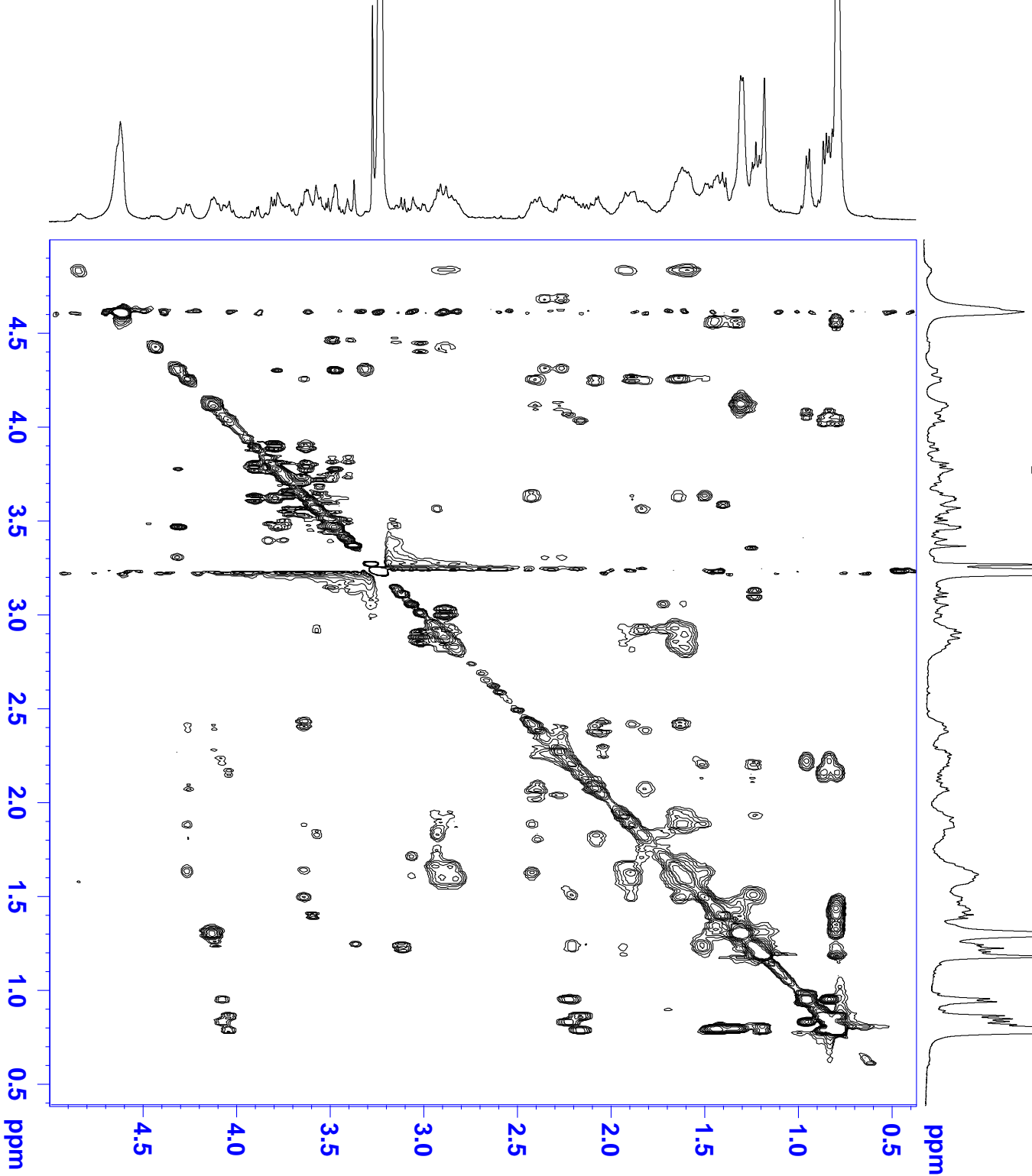
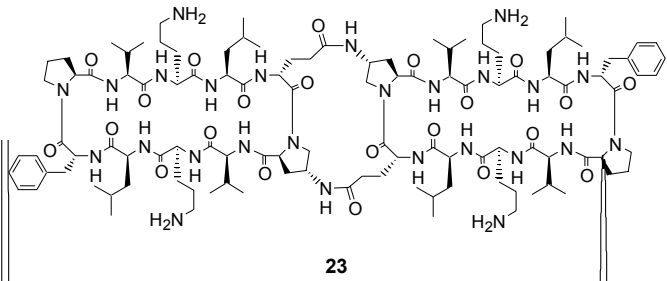
===== CHANNEL f1 =====
 NUC1 1H
 P1 6.10 usec
 P5 16.67 usec
 P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec
 PL1 4.00 dB
 PL9 58.51 dB
 PL10 16.50 dB
 SFO1 400.1318941 MHz

F1 - Acquisition Parameters
 FID 512
 SFO1 400.1319 MHz
 FIDRES 9.390024 Hz
 SW 12.015 ppm
 FMODE States-TPPI

F2 - Processing parameters
 SI 2048
 SF 400.1300389 MHz
 MDW QSIGN
 SSB 2.3 Hz
 GB 0.00 Hz
 PC 1.40

F1 - Processing parameters
 SI 1024
 MC2 States-TPPI
 SF 400.1300389 MHz
 MDW QSIGN
 SSB 2.1 Hz
 GB 0.00 Hz

dimer over turn 1h nmr av-400 ATM-bbigS probe, cleanTOCSY Tmix=70msec



Current Data Parameters
 NAME G13s072003
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20030723
 Time 10.54

INSTRUM advance400
 PROBRD 5 mm BBI JH-285
 PULPROG cmllepr2

TD 65536
 SOLVENT CDCl3

DS 256
 SWH 4807.692 Hz
 FIDRES 2.347506 Hz

AQ 0.2130420 sec
 RG 2580.3
 DW 104.000 usec
 DE 8.50 usec

TE 300.0 K
 T0 0.0000000 sec
 D1 1.0000000 sec

d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000040 sec

D20 0.0000650 sec
 INO 0.0002080 sec
 IL 18

MCREST 0.0000000 sec
 MCWRK 0.0099999 sec
 SFLCNT 256

===== CHANNEL f1 =====
 NUC1 ¹H
 P1 6.10 usec
 P5 16.67 usec

P6 25.00 usec
 P7 50.00 usec
 P17 2500.00 usec

PL1 4.00 dB
 PL9 58.51 dB
 PL10 16.50 dB
 SFO1 400.1318841 MHz

F1 - Acquisition Parameters
 FNO 512
 SFO1 400.1318 MHz
 FIDRES 9.390024 Hz

SW 12.015 ppm
 FMODE States-TPPI

F2 - Processing parameters
 SI 2048
 SF 400.1300389 MHz

WDW QSI
 SSB 2.3 Hz
 LB 0.70 Hz
 GB 1.40

PC 1.40
 F1 - Processing parameters
 SI 1024
 States-TPPI

MC2 400.1300389 MHz
 SF QSI
 WDW QSI
 SSB 2.1 Hz
 LB 0.70 Hz
 GB 0