

Important Note:

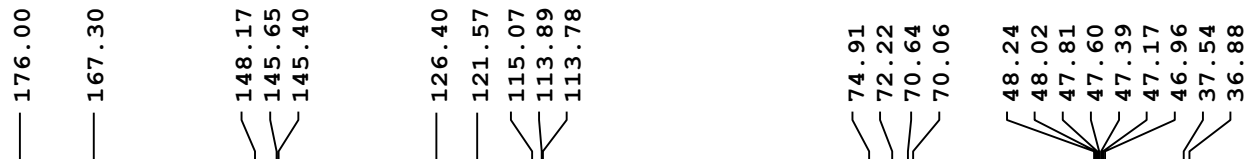
*C1 is corresponding to E6 (gallic acid)

*C2 is corresponding to E30 (chlorogenic acid)

*C3 is corresponding to E24 (p-coumaric acid)

*C4 is corresponding to E11 (quercetin)

*C5 is corresponding to E20 (rutin)

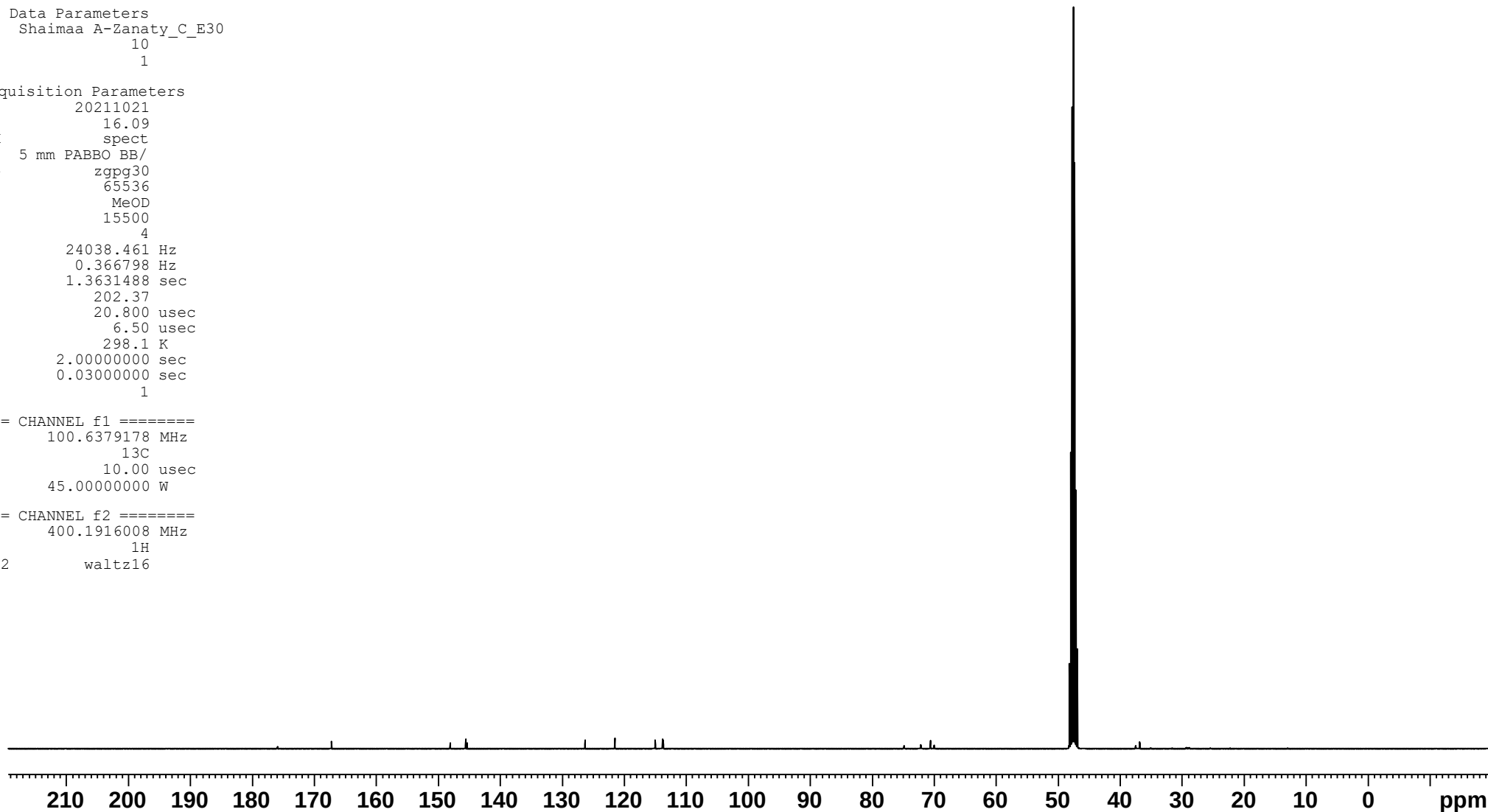


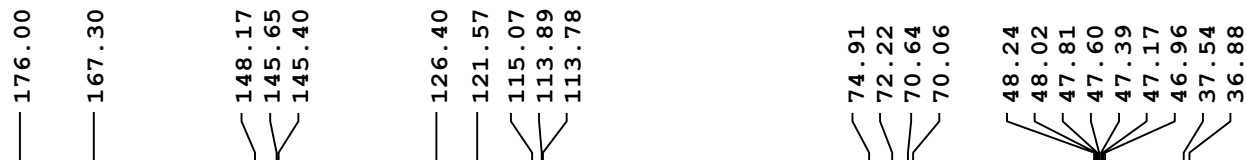
Current Data Parameters
NAME Shaimaa A-Zanaty_C_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time 16.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 15500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



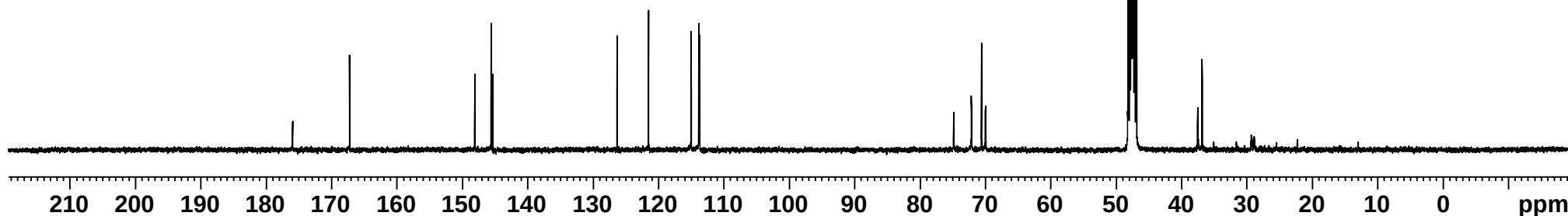


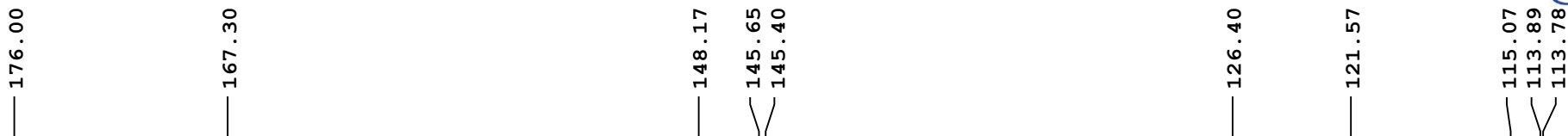
Current Data Parameters
NAME Shaimaa A-Zanaty_C_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time_ 16.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 15500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



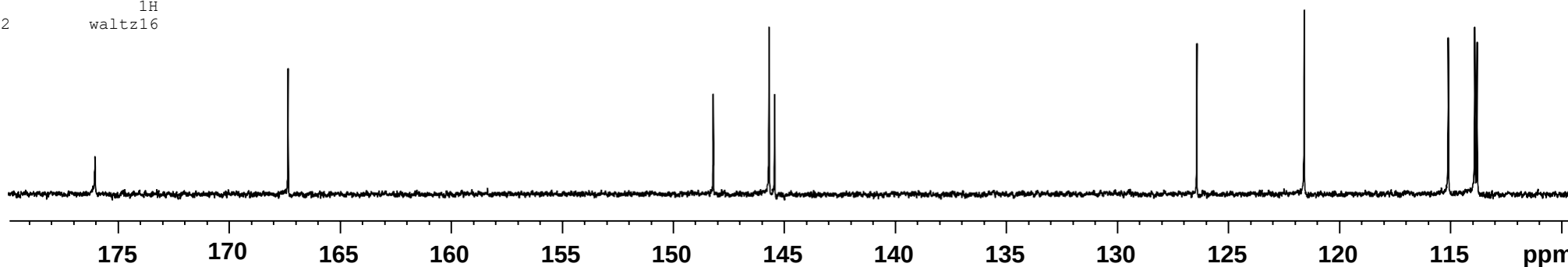


Current Data Parameters
NAME Shaimaa A-Zanaty_C_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time_ 16.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 15500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



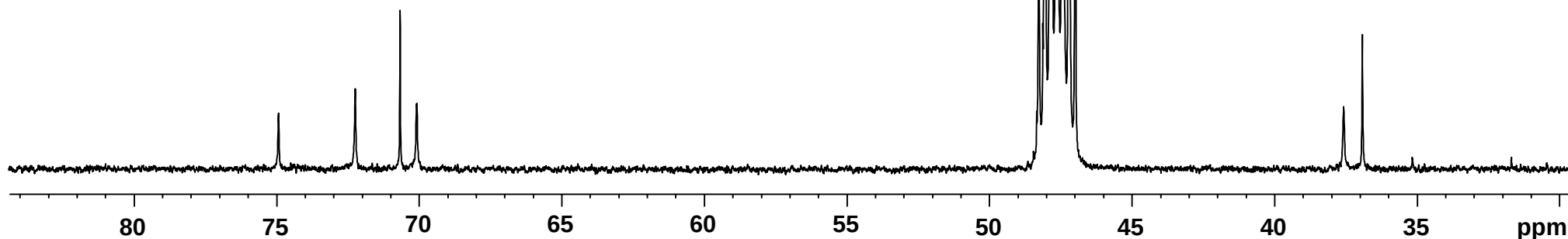
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Current Data Parameters
NAME Shaimaa A-Zanaty_C_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time_ 16.09
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 15500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



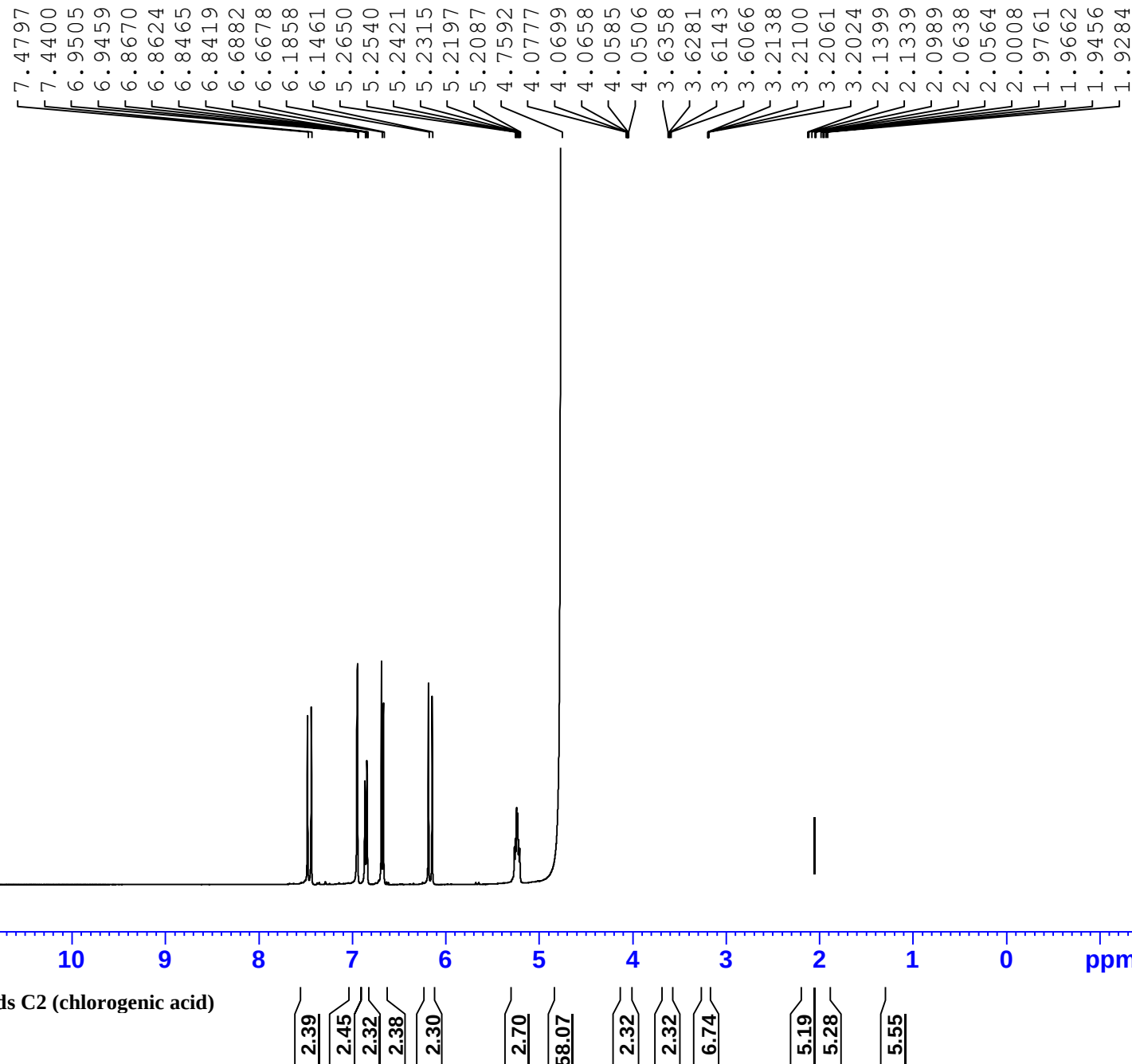
¹³CNMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time 1.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 800
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 146.06
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900477 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

— 7.4797
— 7.4400

6.9505
6.9459
6.8670
6.8624
6.8465
6.8419

6.6882
6.6678

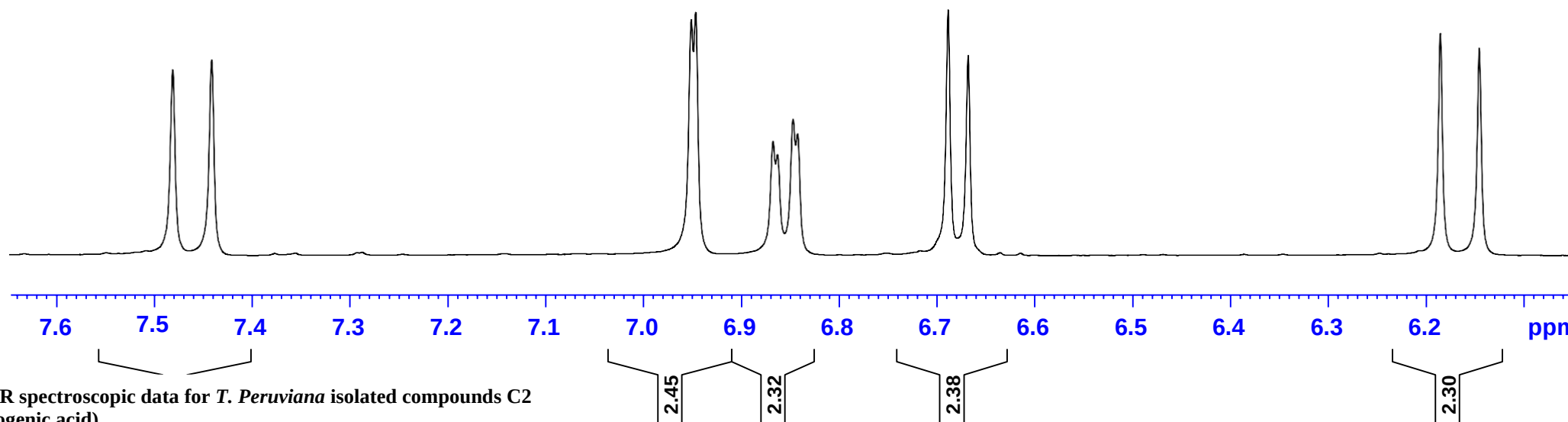
6.1858
6.1461

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Current Data Parameters
NAME      Shaimaa A-Zanaty_H_E30
EXPNO     10
PROCNO    1

F2 - Acquisition Parameters
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Time      1.23
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PULPROG   zg30
TD        65536
SOLVENT   MeOD
NS        800
DS        2
SWH       8012.820 Hz
FIDRES    0.122266 Hz
AQ        4.0894465 sec
RG        146.06
DW        62.400 usec
DE        6.50 usec
TE        298.0 K
D1        1.0000000 sec
TD0       1

----- CHANNEL f1 -----
SFO1      400.1924713 MHz
NUC1       1H
P1        15.00 usec
PLW1      10.39999962 W

F2 - Processing parameters
SI        65536
SF        400.1900477 MHz
WDW       EM
SSB       0
LB        0.30 Hz
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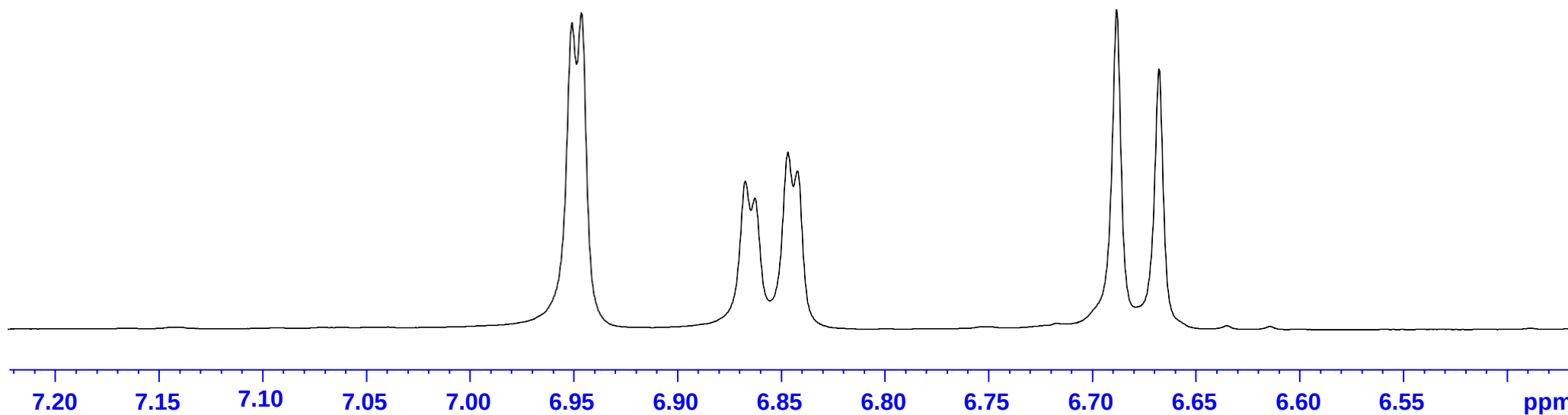
6.9505
6.9459
6.8670
6.8624
6.8465
6.8419
6.6882
6.6678

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time 1.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TU 65536
SOLVENT H2O
NS 800
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0594463 sec
RG 186.06
UW 62.400 usec
UB 6.50 usec
TE 298.0 K
D1 1.0000000 sec
TDV 1

----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900477 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

5.2650
5.2540
5.2421
5.2315
5.2197
5.2087

4.7592

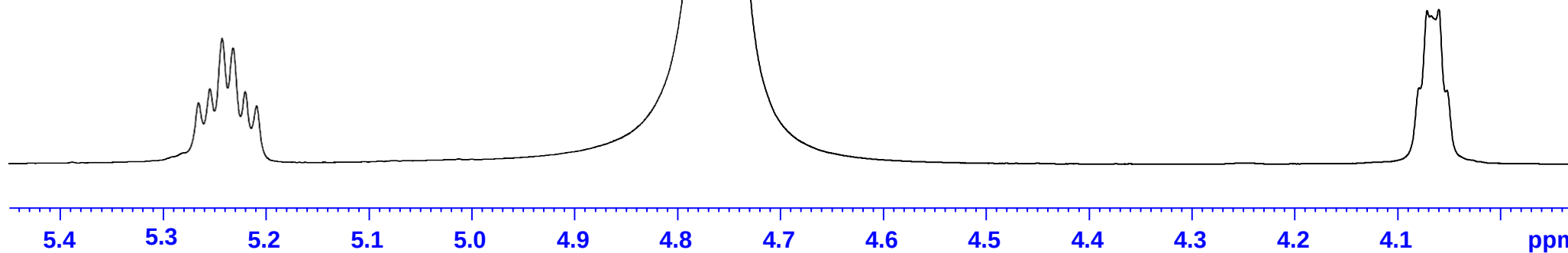
4.0777
4.0699
4.0658
4.0585
4.0506

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time 1.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 800
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 146.06
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900477 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data
for *T. Peruviana* isolated
compounds C2 (chlorogenic
acid)

3.6358
3.6281
3.6143
3.6066

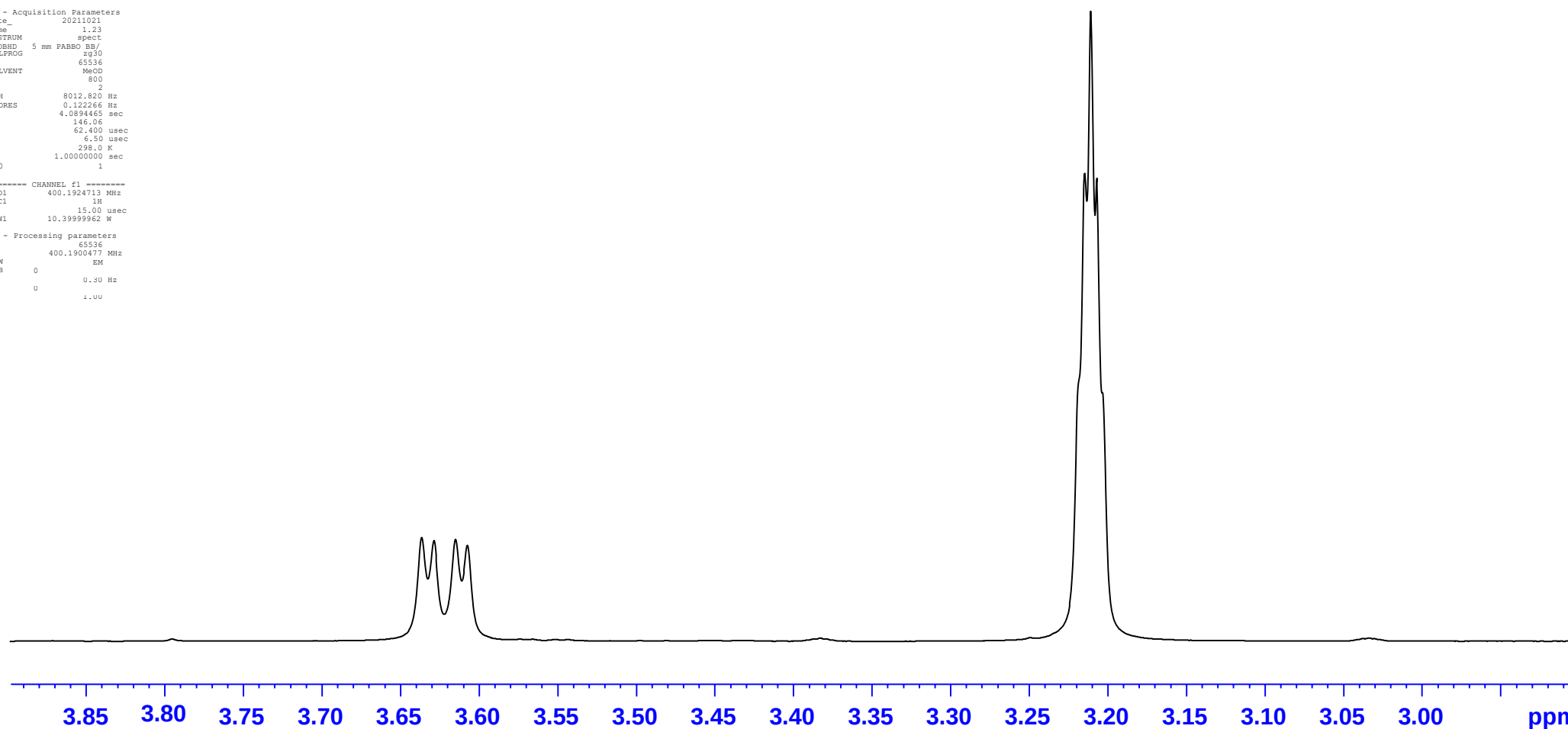
3.2138
3.2100
3.2061
3.2024

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E30
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211021
Time 1.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 800
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 146.06
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900477 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

2.32

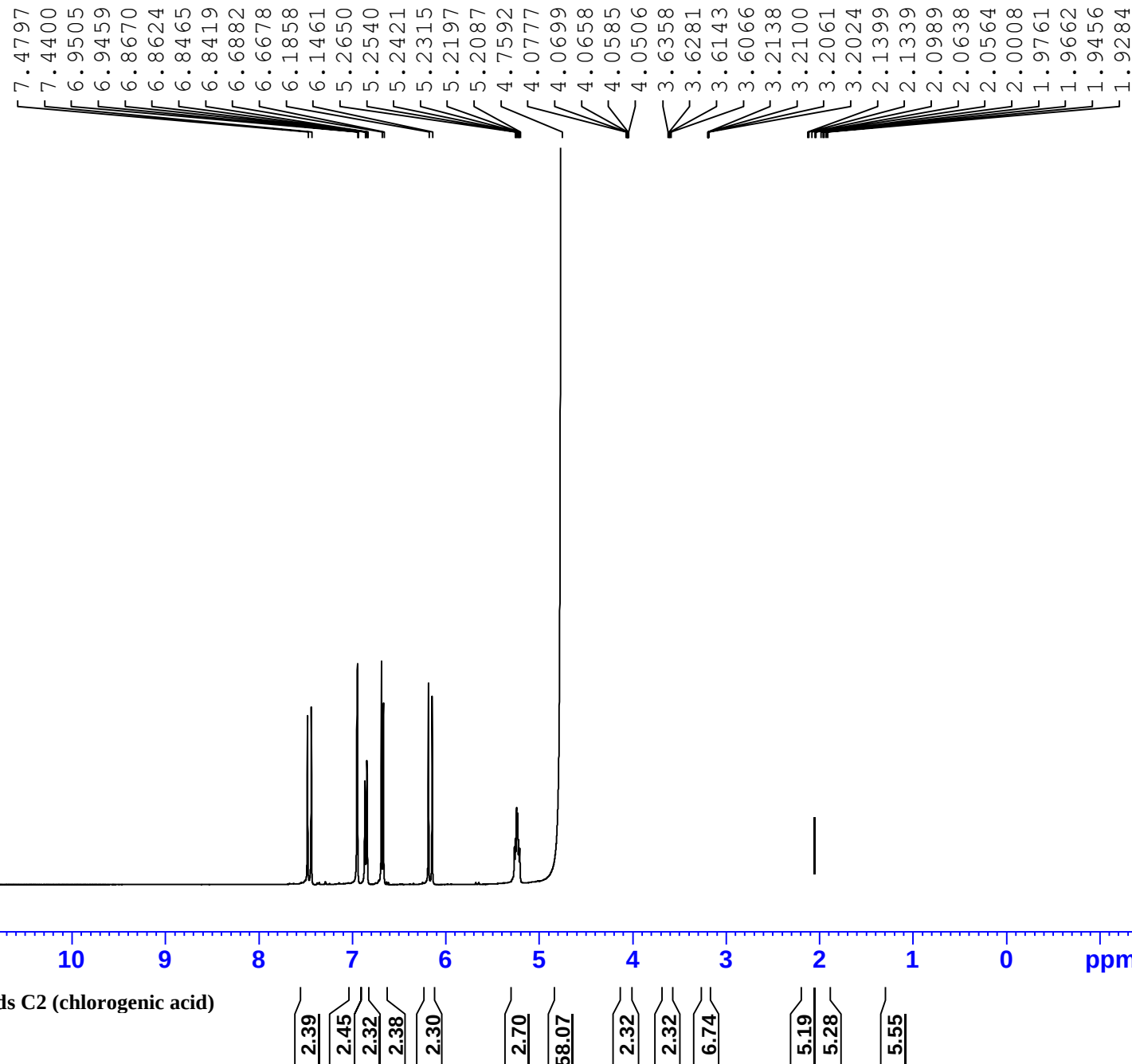
6.74

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E30
EXPNO 10
PROCNO 1

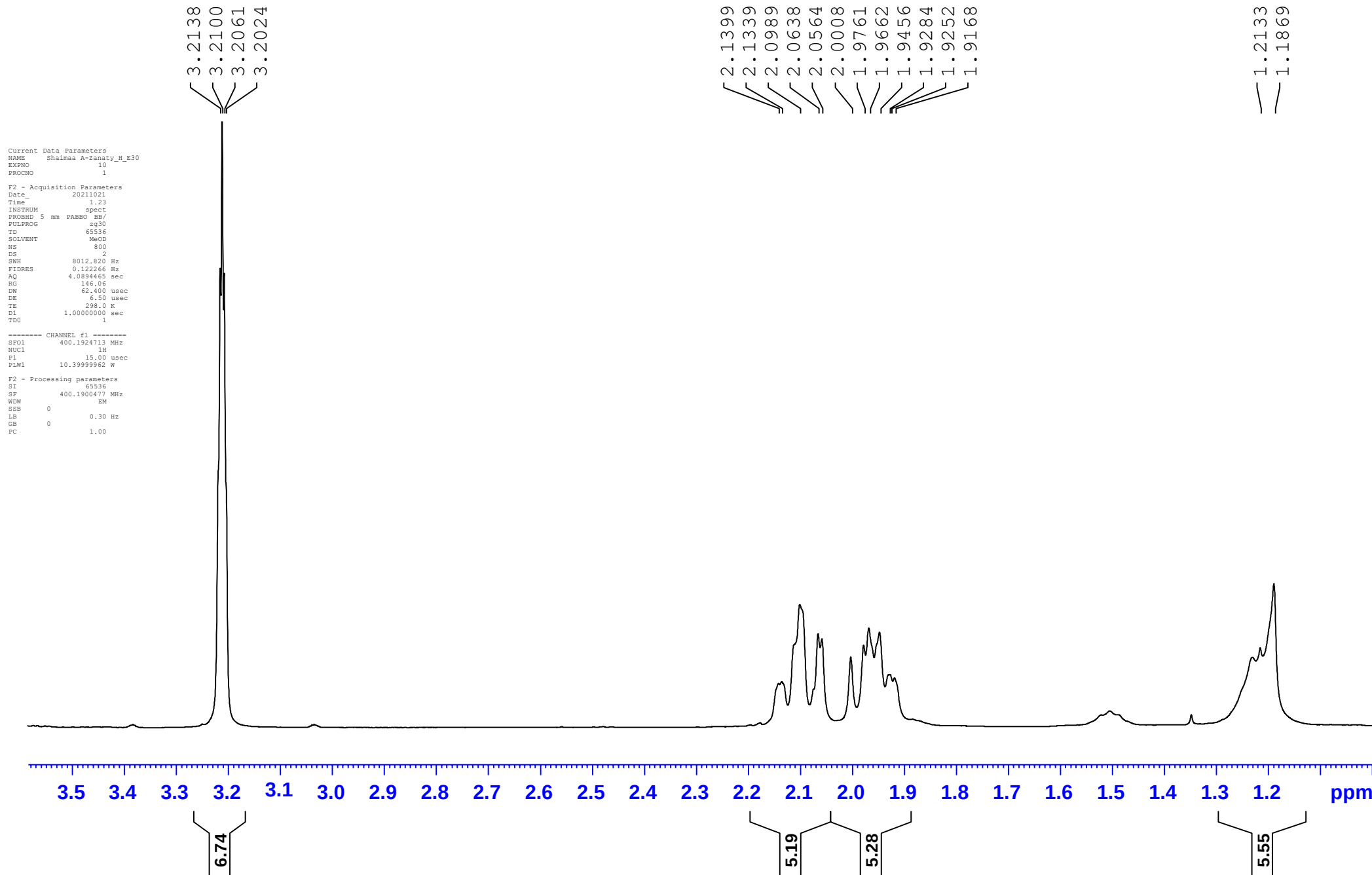
F2 - Acquisition Parameters
Date_ 20211021
Time 1.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 800
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 146.06
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

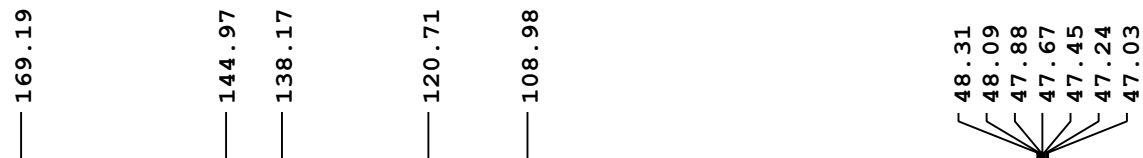
===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900477 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

¹HNMR spectroscopic data for *T. Peruviana* isolated compounds C2 (chlorogenic acid)

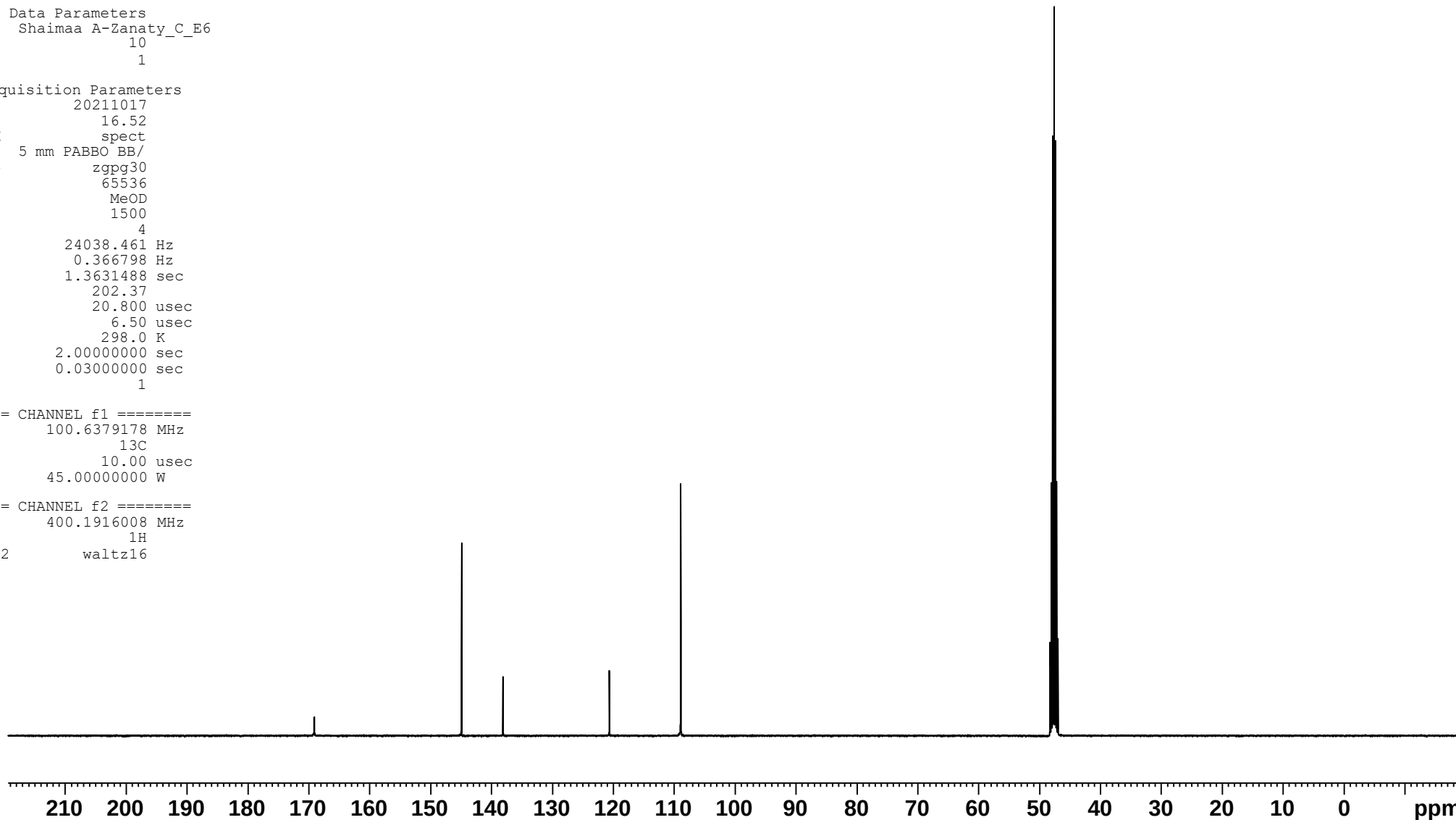


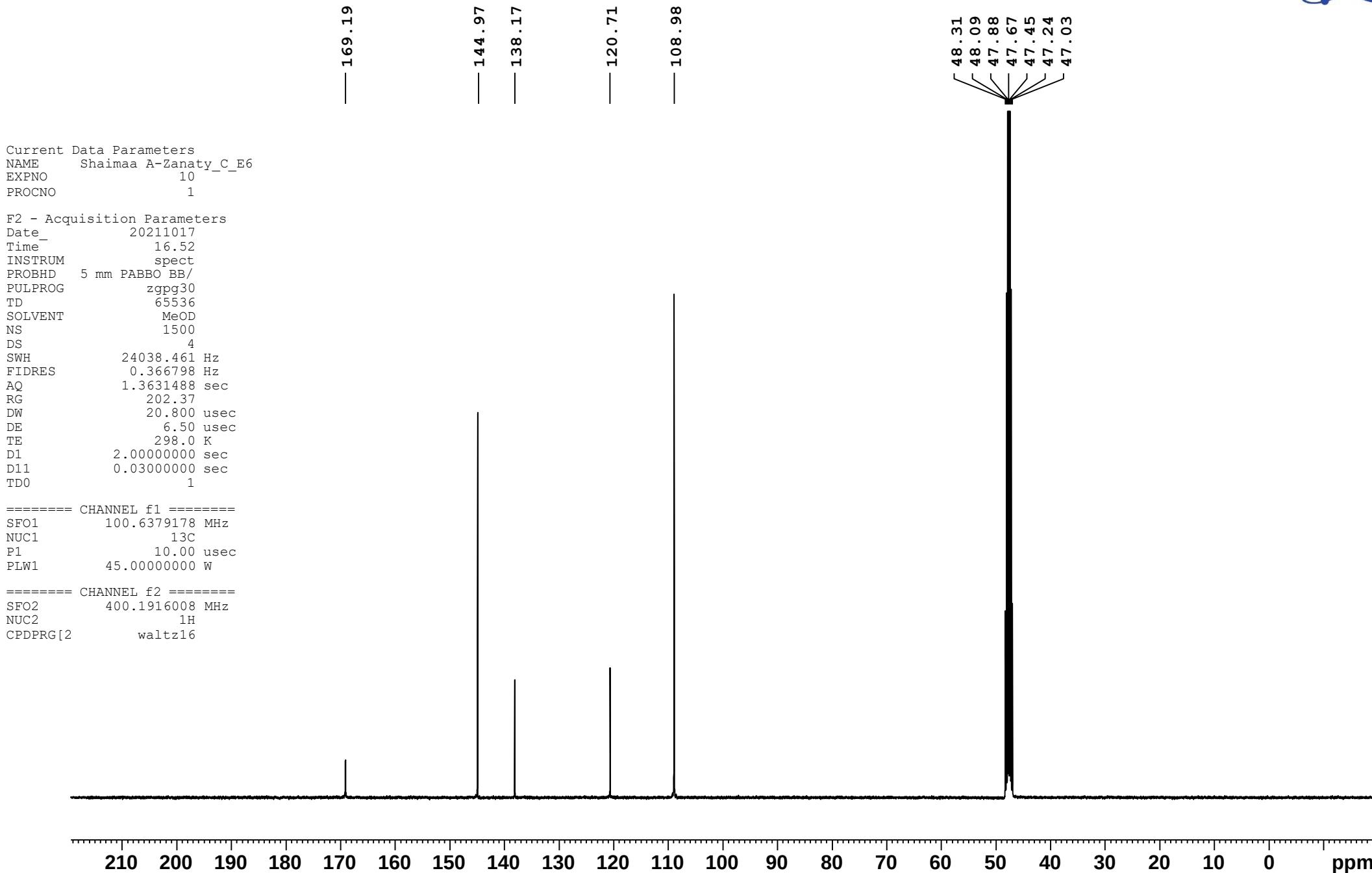
Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time_ 16.52
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PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16







— 169.19

— 144.97

— 138.17

— 120.71

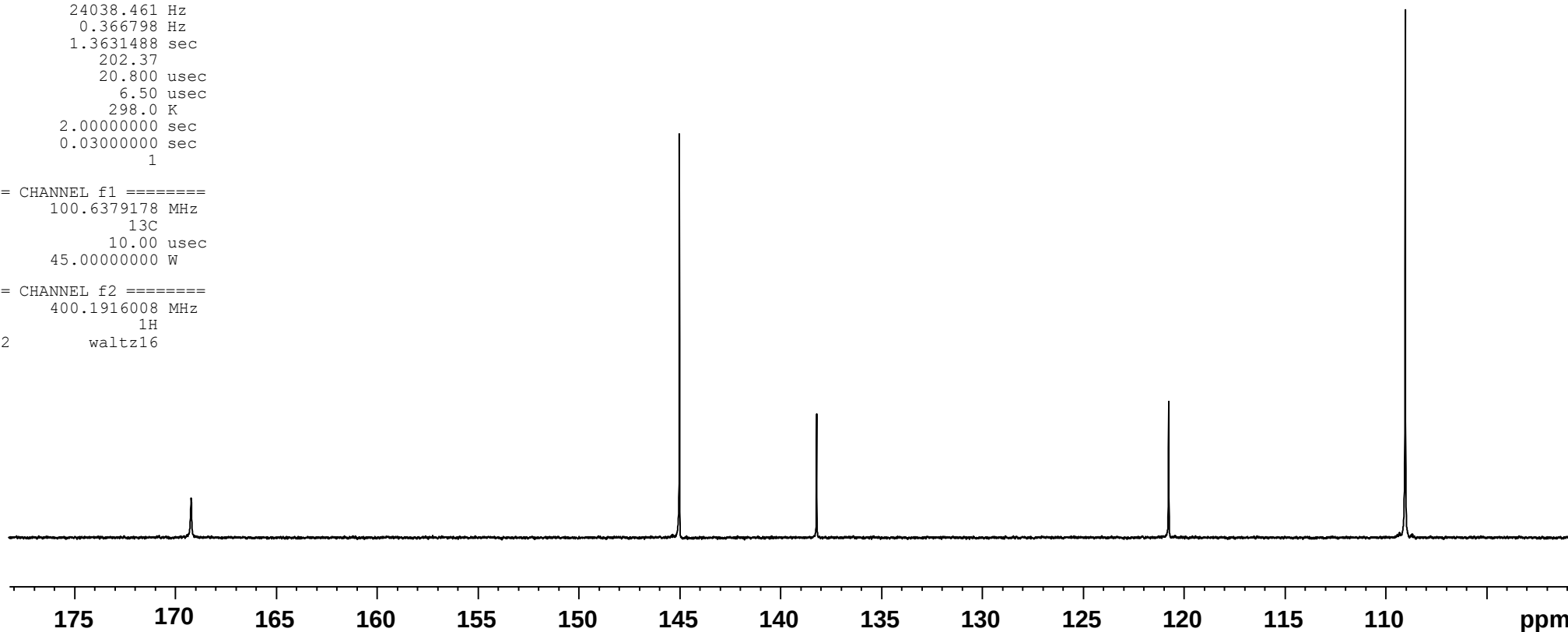
— 108.98

Current Data Parameters
NAME Shaimaa A-Zanaty_C_E6
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



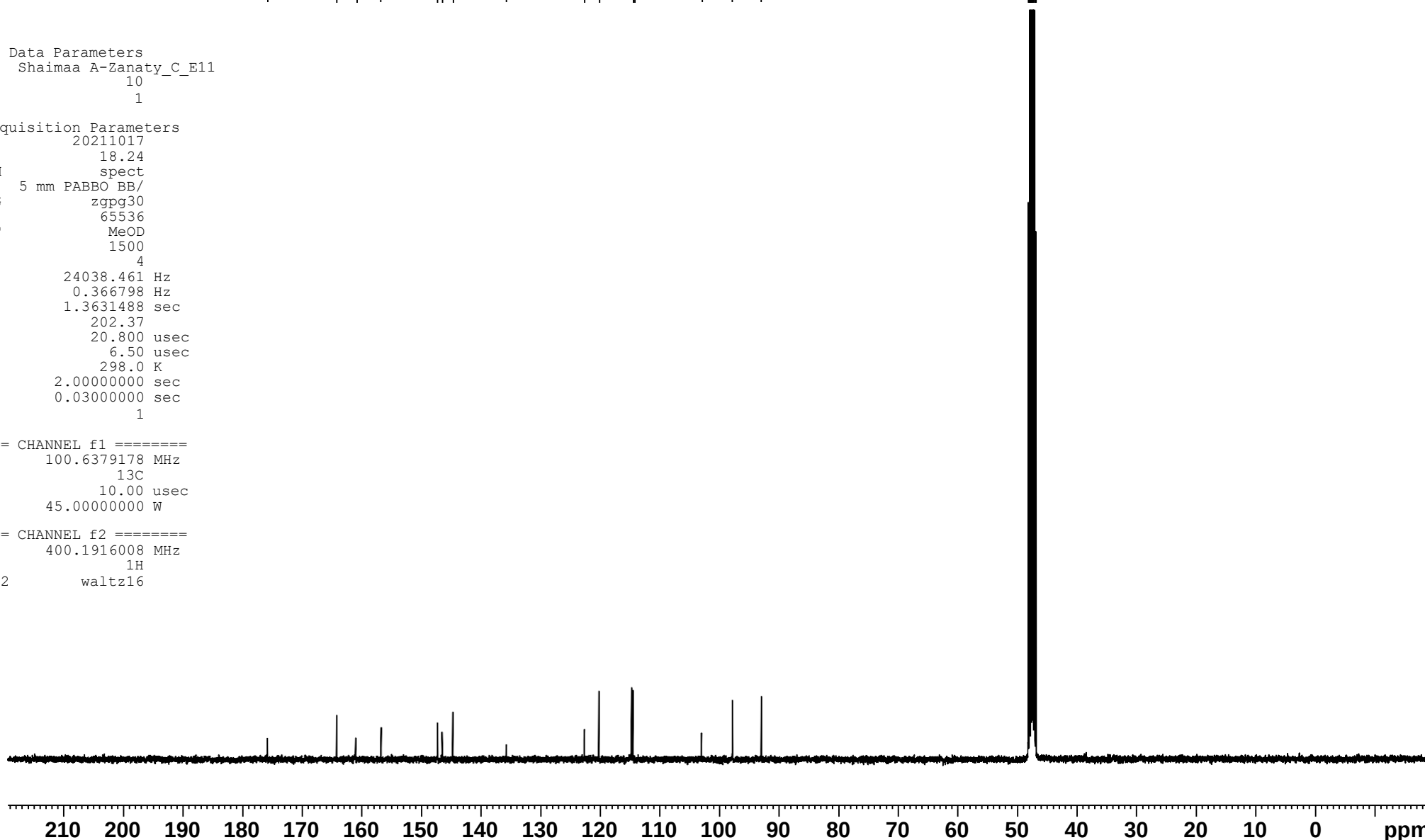
— 175.92
— 164.27
— 161.07
— 156.82
— 147.36
— 146.59
— 144.81
— 135.81
— 122.74
— 120.28
— 114.83
— 114.59
— 103.08
— 97.88
— 93.04
48.24
48.03
47.82
47.60
47.39
47.18
46.96

Current Data Parameters
NAME Shaimaa A-Zanaty_C_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time_ 18.24
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



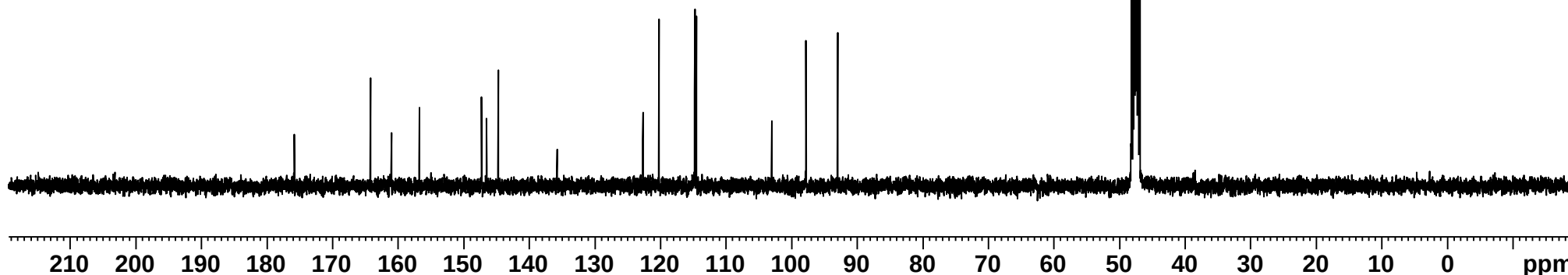
— 175.92
— 164.27
— 161.07
— 156.82
— 147.36
— 146.59
— 144.81
— 135.81
— 122.74
— 120.28
— 114.83
— 114.59
— 103.08
— 97.88
— 93.04
48.24
48.03
47.82
47.60
47.39
47.18
46.96

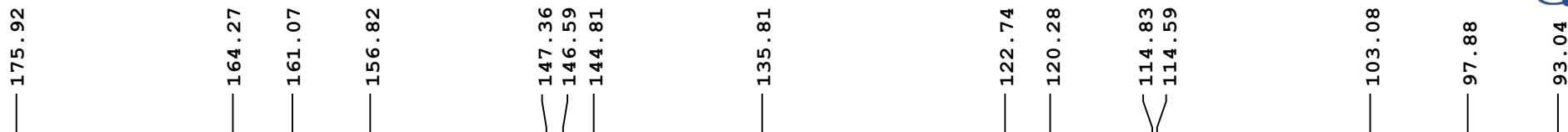
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EXPNO 10
PROCNO 1

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SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



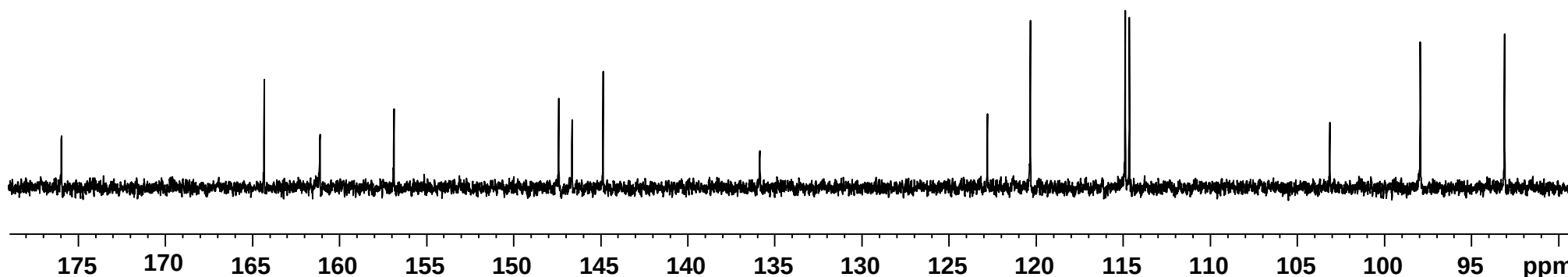


Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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PULPROG zgpg30
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SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



¹³C NMR spectroscopic data for *T. Peruviana* isolated compounds C4 (quercetin)



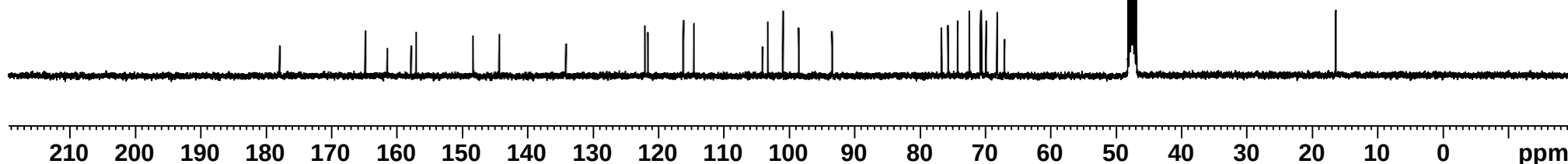
— 177.98
— 164.89
— 161.56
— 157.90
— 157.12
— 148.42
— 144.44
— 134.22
— 122.15
— 121.71
— 116.28
— 114.65
— 104.14
— 103.36
— 101.02
— 98.63
— 93.52
76.79
75.81
74.33
72.53
70.83
70.70
69.99
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48.03
47.82
47.60
47.39
47.18
46.97
— 16.48

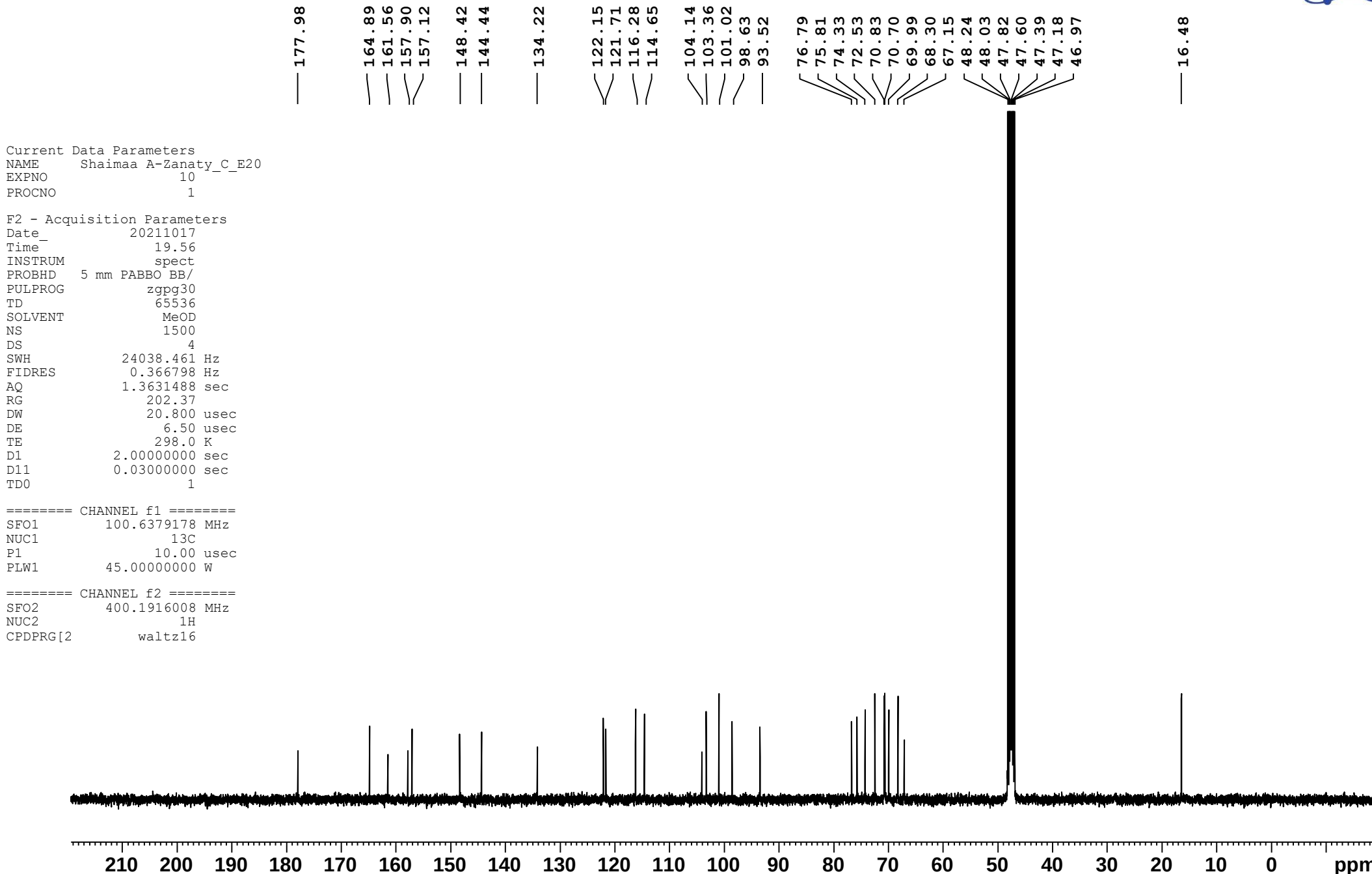
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NAME Shaimaa A-Zanaty_C_E20
EXPNO 10
PROCNO 1

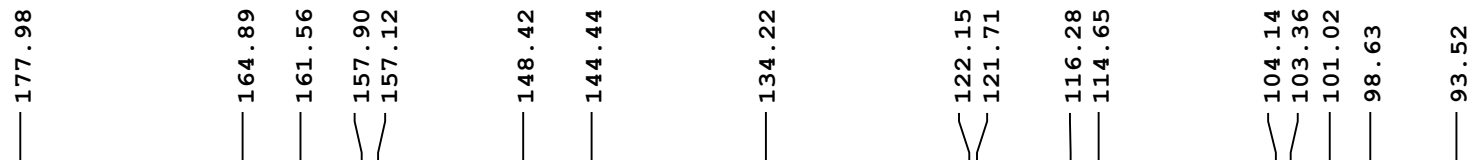
F2 - Acquisition Parameters
Date_ 20211017
Time_ 19.56
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PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16





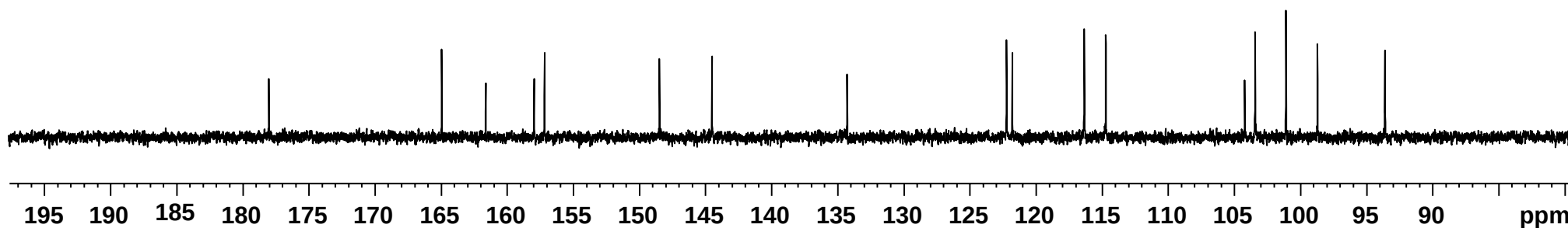


Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time_ 19.56
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PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



76.79
75.81
74.33
72.53
70.83
70.70
69.99
68.30
67.15

48.24
48.03
47.82
47.60
47.39
47.18
46.97

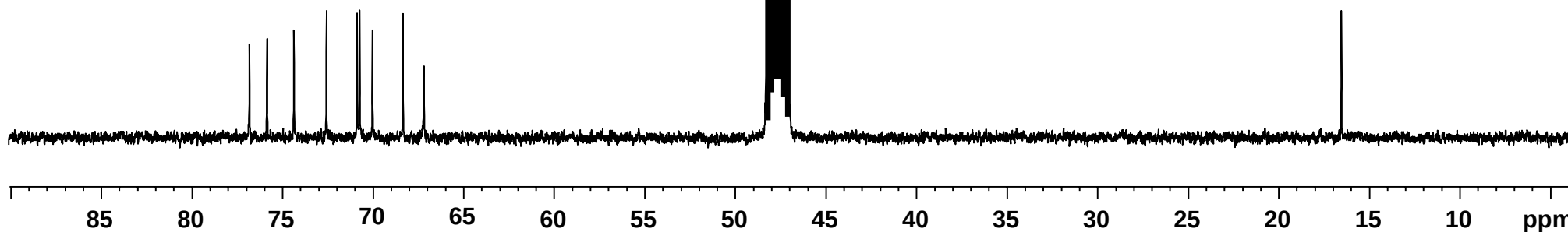
16.48

Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



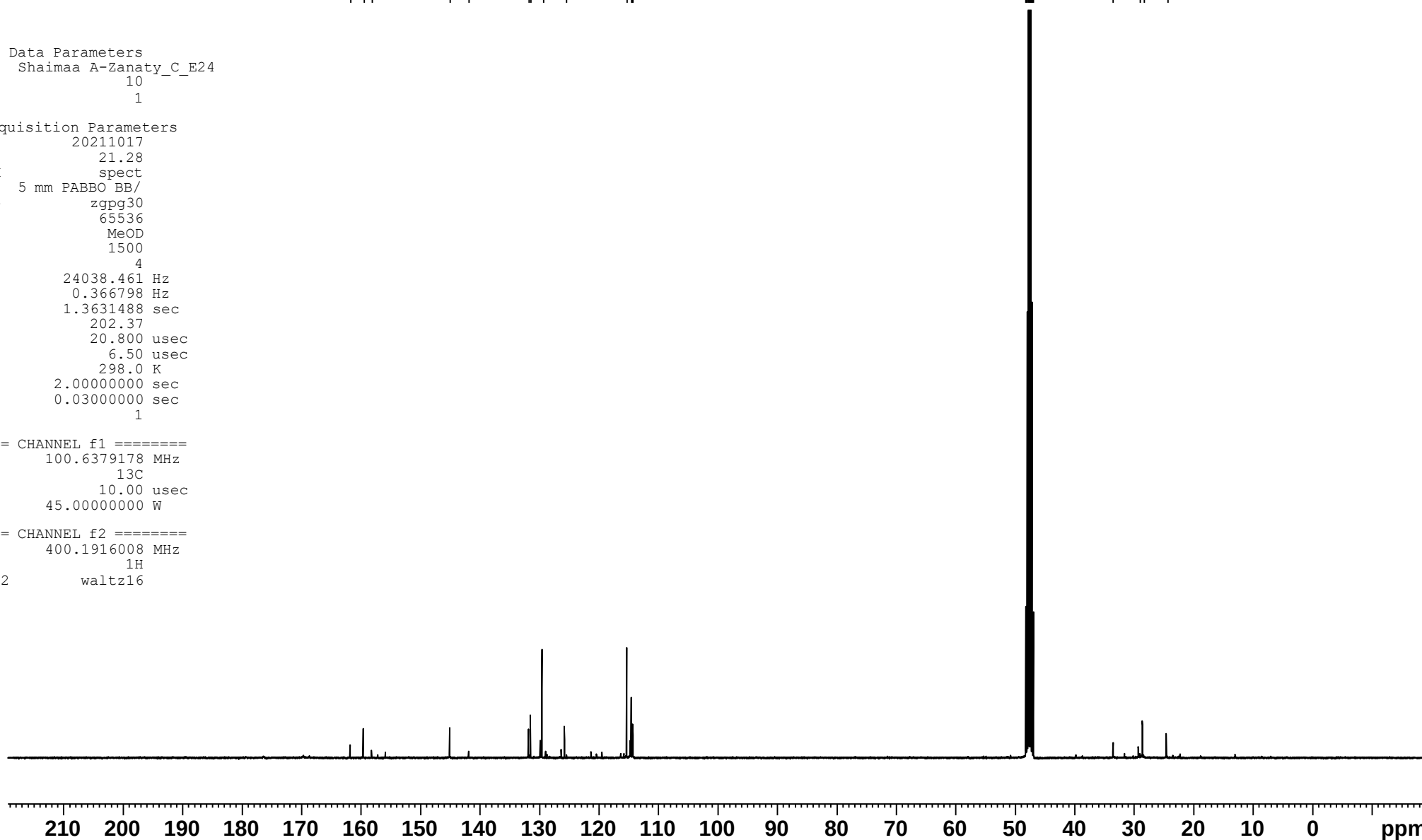
161.93 159.72 158.33
145.18 141.99
131.94 131.62 129.68 125.87
115.42 114.65 114.41
48.27 48.06 47.85 47.63 47.42 47.21 46.99 33.59 29.35 28.67 24.64

Current Data Parameters
NAME Shaimaa A-Zanaty_C_E24
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time_ 21.28
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



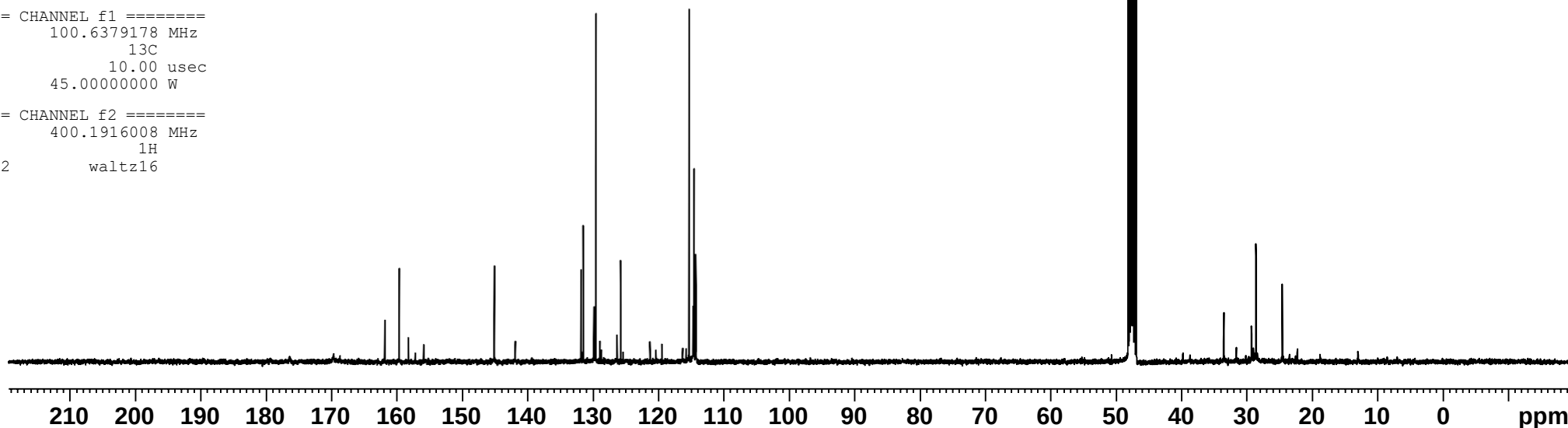
161.93 159.72 158.33
145.18 141.99
131.94 131.62 129.68 125.87
115.42 114.65 114.41
48.27 48.06 47.85 47.63 47.42 47.21 46.99 33.59 29.35 28.67 24.64

Current Data Parameters
NAME Shaimaa A-Zanaty_C_E24
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time_ 21.28
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16





— 161.93
— 159.72
— 158.33

— 145.18
— 141.99

— 131.94
— 131.62
— 129.68
— 125.87

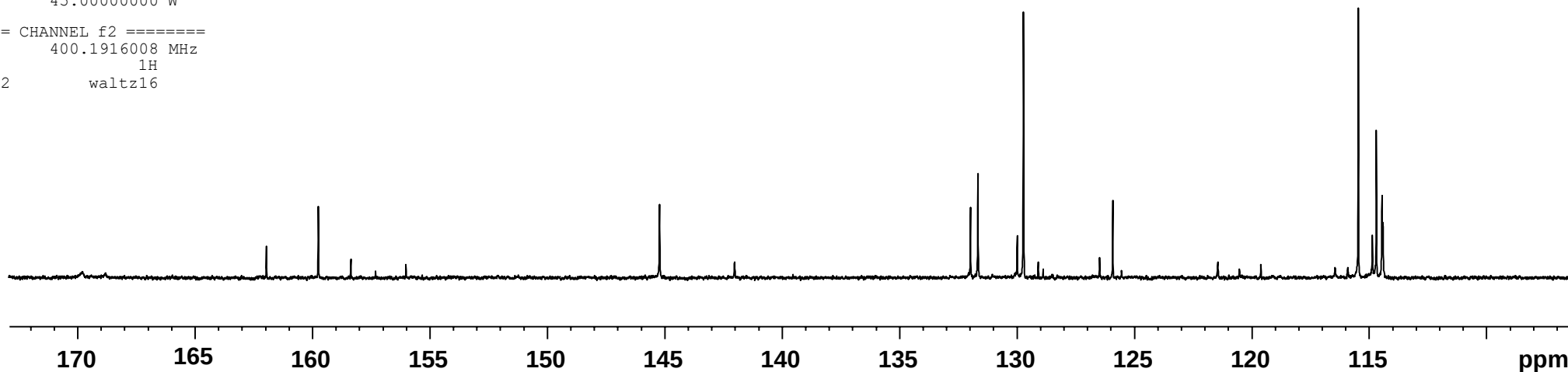
— 115.42
— 114.65
— 114.41

Current Data Parameters
NAME Shaimaa A-Zanaty_C_E24
EXPNO 10
PROCNO 1

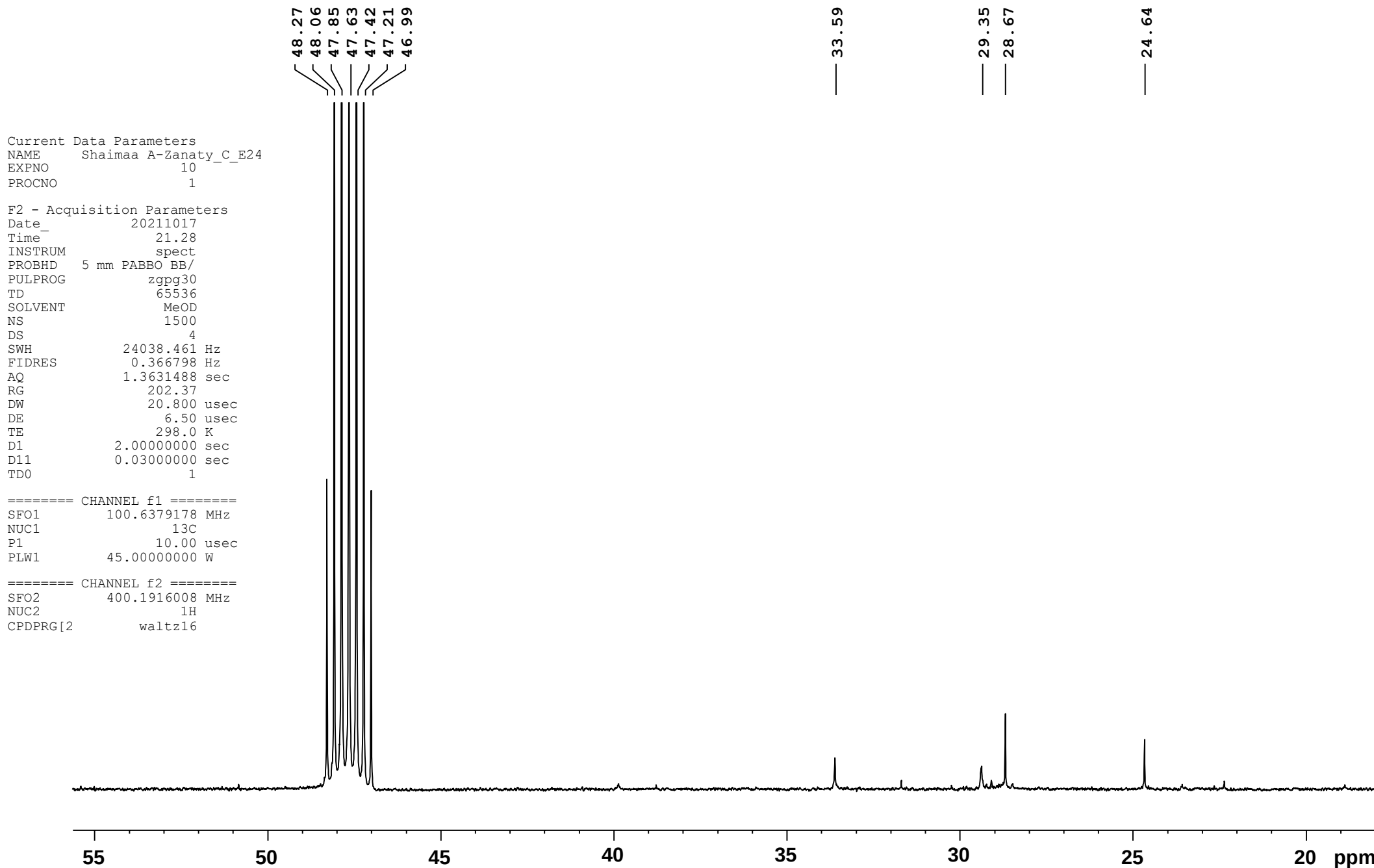
F2 - Acquisition Parameters
Date_ 20211017
Time_ 21.28
INSTRUM spect
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PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1500
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 202.37
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6379178 MHz
NUC1 13C
P1 10.00 usec
PLW1 45.00000000 W

===== CHANNEL f2 =====
SFO2 400.1916008 MHz
NUC2 1H
CPDPRG[2] waltz16



¹³CNMR spectroscopic data for *T. Peruviana* isolated compounds C3 (p-coumaric acid)

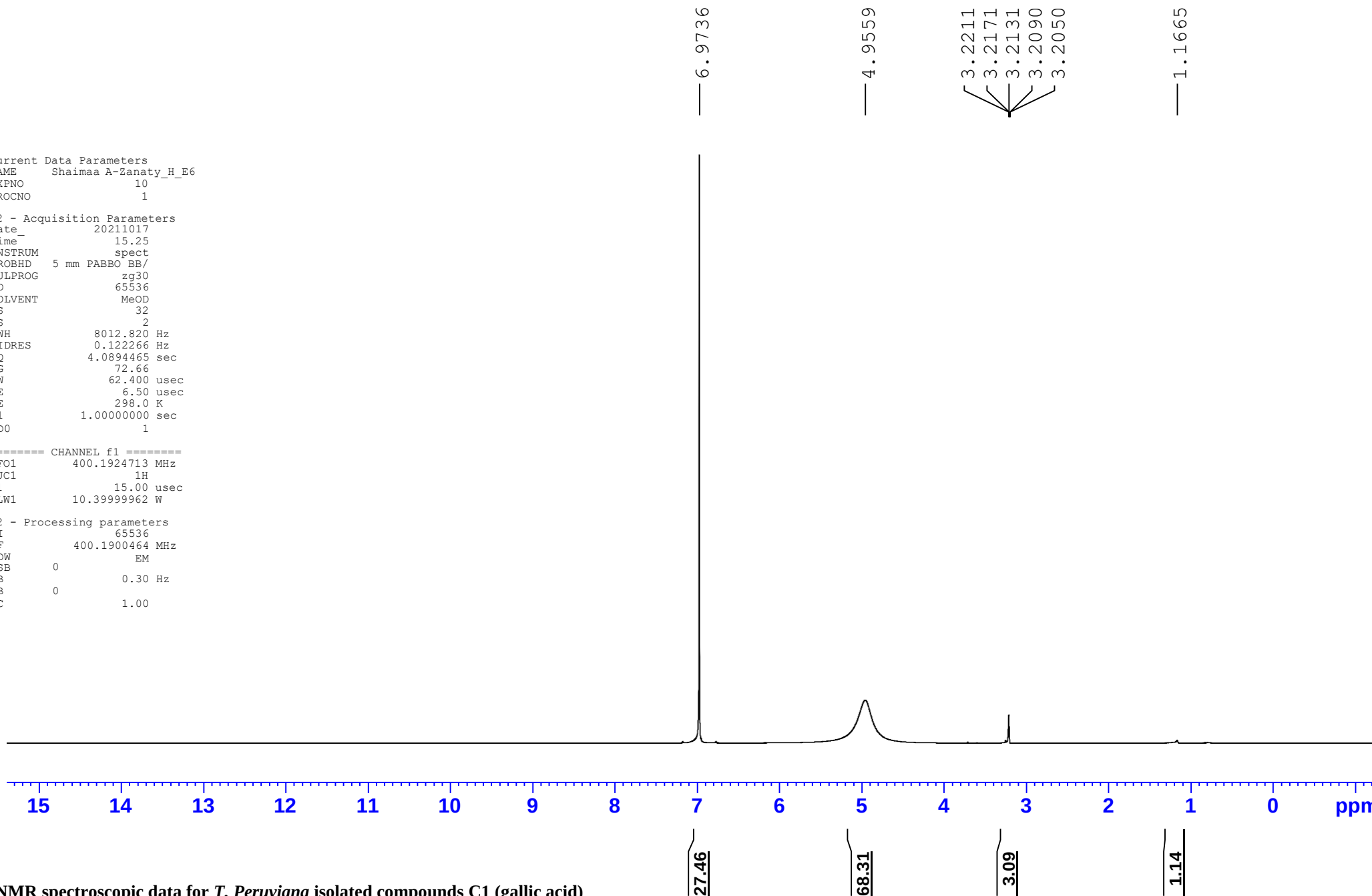


Current Data Parameters
NAME Shaimaa A-Zanaty_H_E6
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 15.25
INSTRUM spect
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PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 72.66
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900464 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

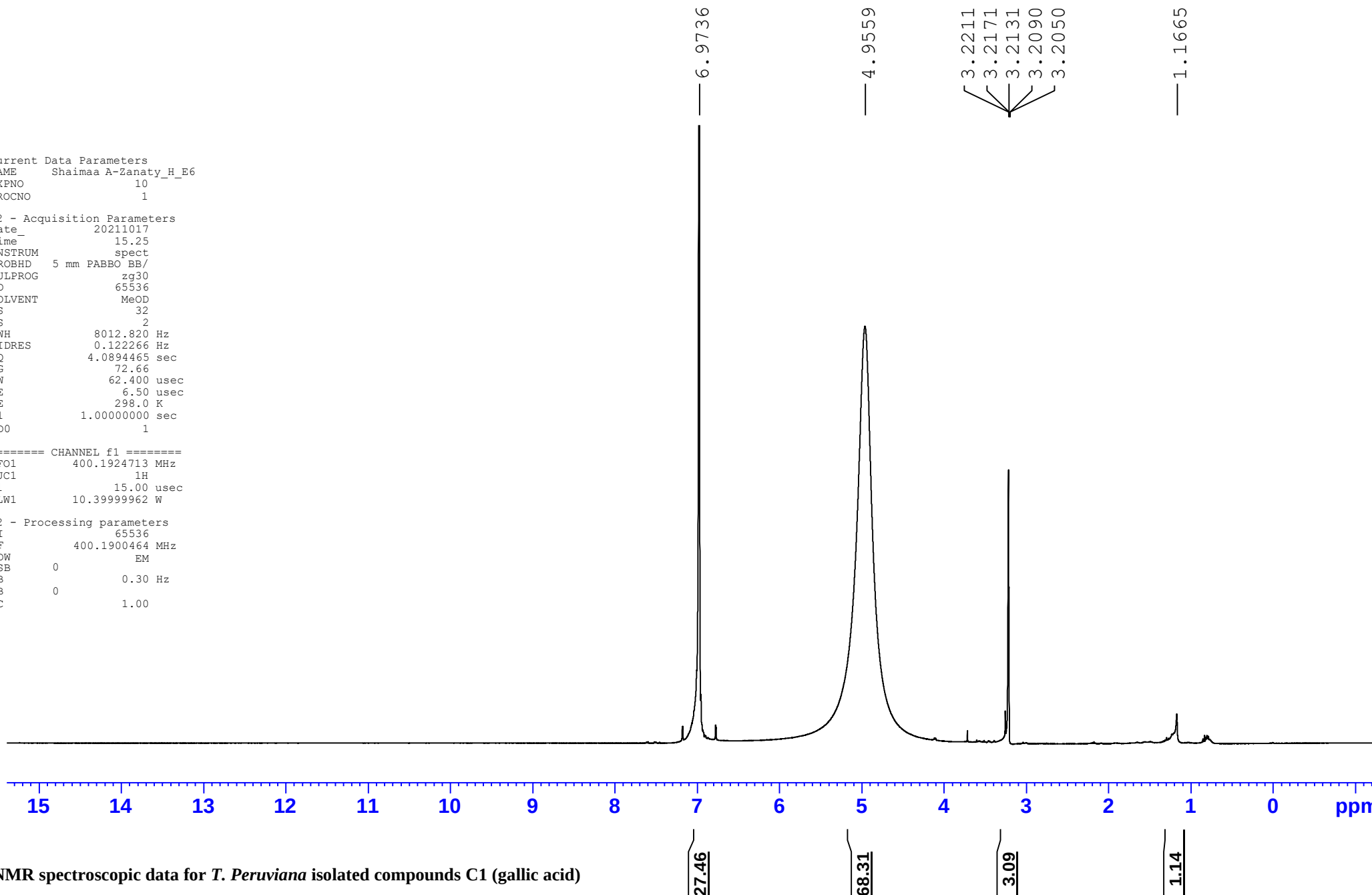


Current Data Parameters
NAME Shaimaa A-Zanaty_H_E6
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 15.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 72.66
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900464 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C1 (gallic acid)

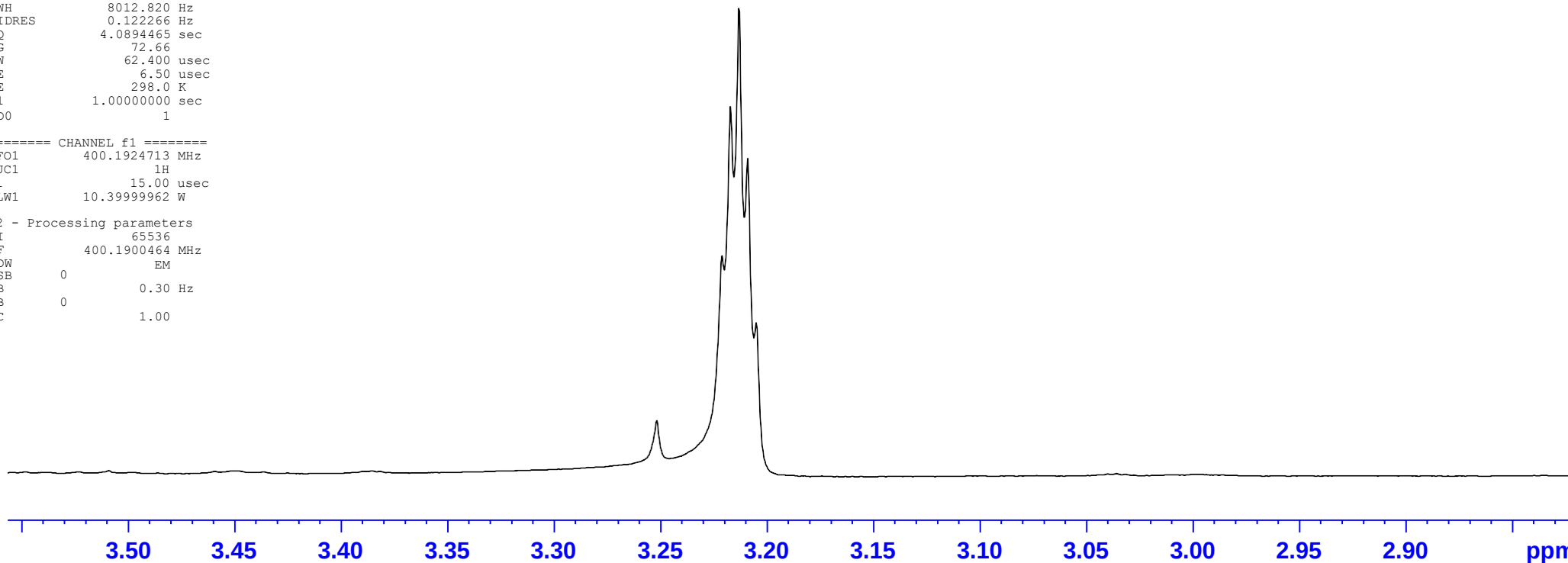
Current Data Parameters
NAME Shaimaa A-Zanaty_H_E6
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 15.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 72.66
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900464 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

3.2211
3.2171
3.2131
3.2090
3.2050



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C1 (gallic acid)

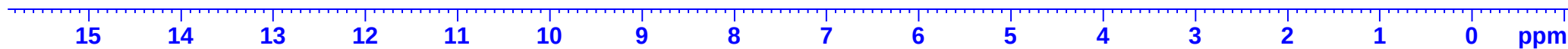
Current Data Parameters
NAME Shaimaa A-Zanaty_H_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 16.57
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PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900469 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

7.6355
7.6306
7.5444
7.5395
7.5232
7.5182
6.7964
6.7752
6.2881
6.2832
6.0836
6.0787
— 4.7810
3.2156
3.2117
3.2079
— 1.1759



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C4 (quercetin)

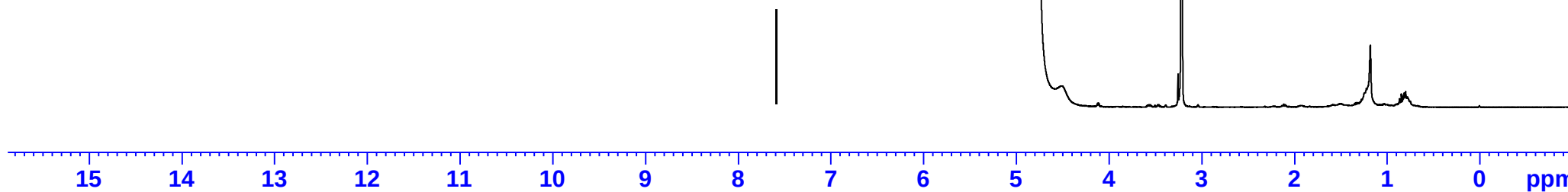
Current Data Parameters
NAME Shaimaa A-Zanaty_H_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 16.57
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PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900469 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

7.6355
7.6306
7.5444
7.5395
7.5232
7.5182
6.7964
6.7752
6.2881
6.2832
6.0836
6.0787
4.7810
3.2156
3.2117
3.2079
1.1759



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C4 (quercetin)

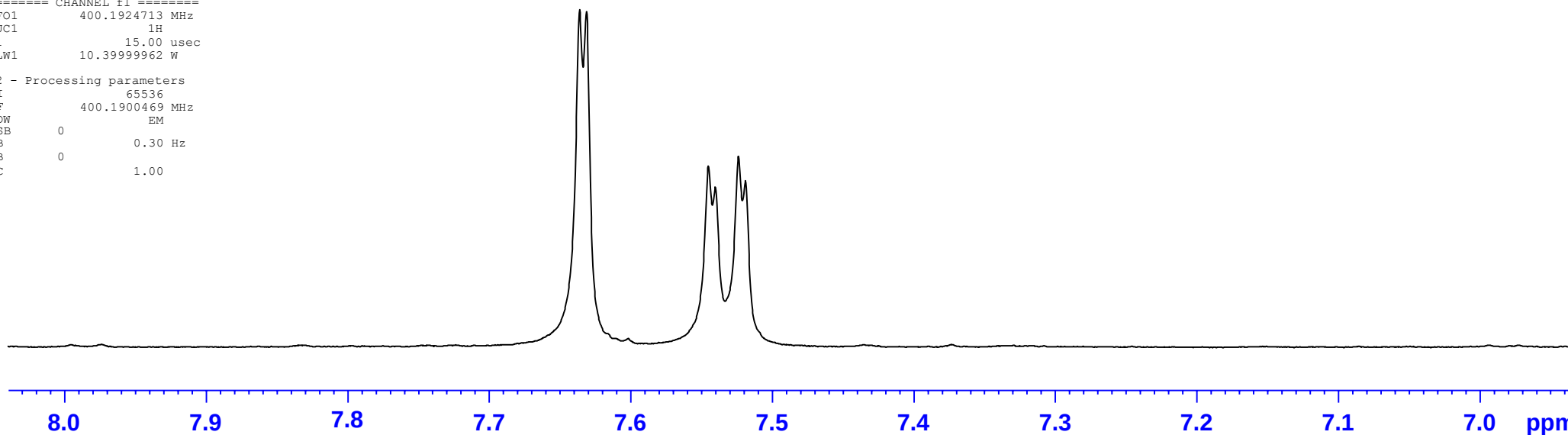
7.6355
7.6306
7.5444
7.5395
7.5232
7.5182

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 16.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900469 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana*
isolated compounds C4 (quercetin)

— 6.7964
— 6.7752

— 6.2881
— 6.2832

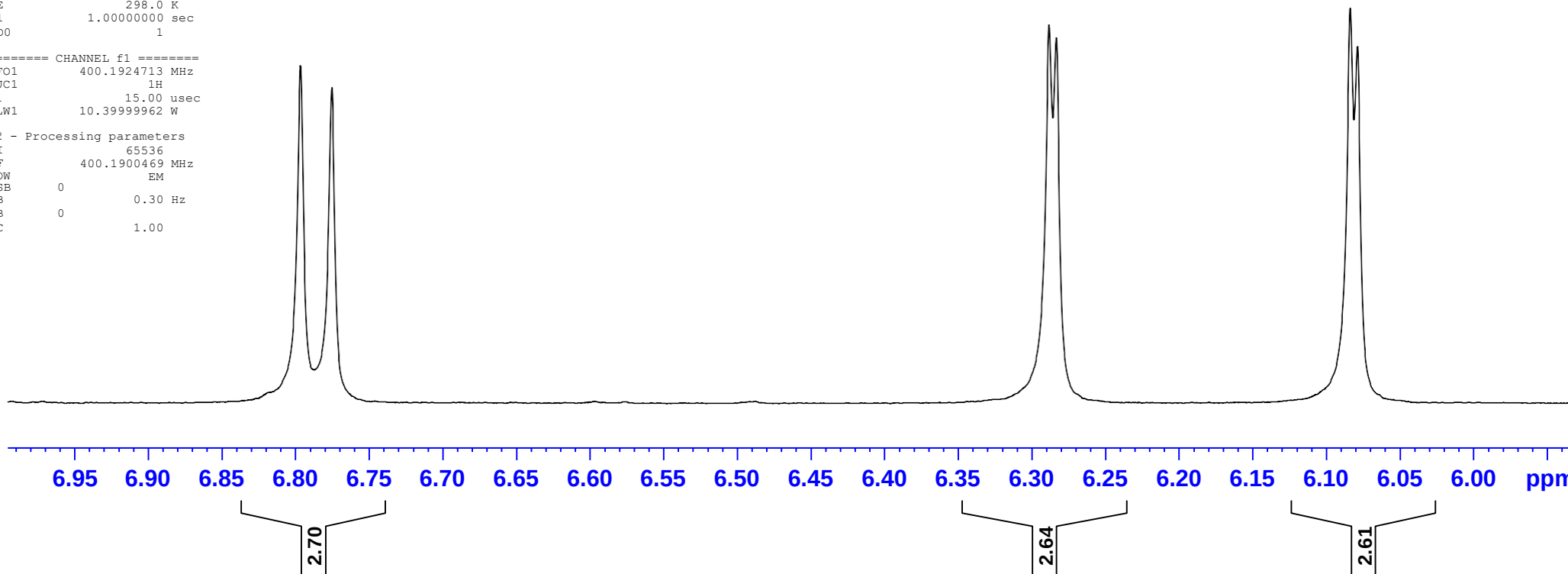
— 6.0836
— 6.0787

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 16.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900469 MHz
WDW EM
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LB 0.30 Hz
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PC 1.00



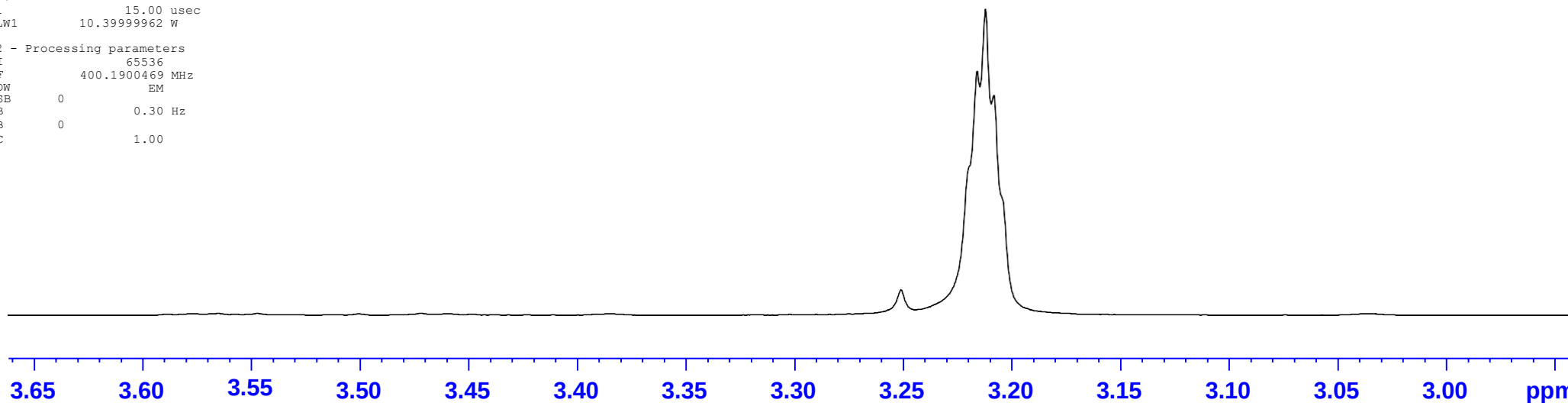
¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C4 (quercetin)

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E11
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 16.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900469 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



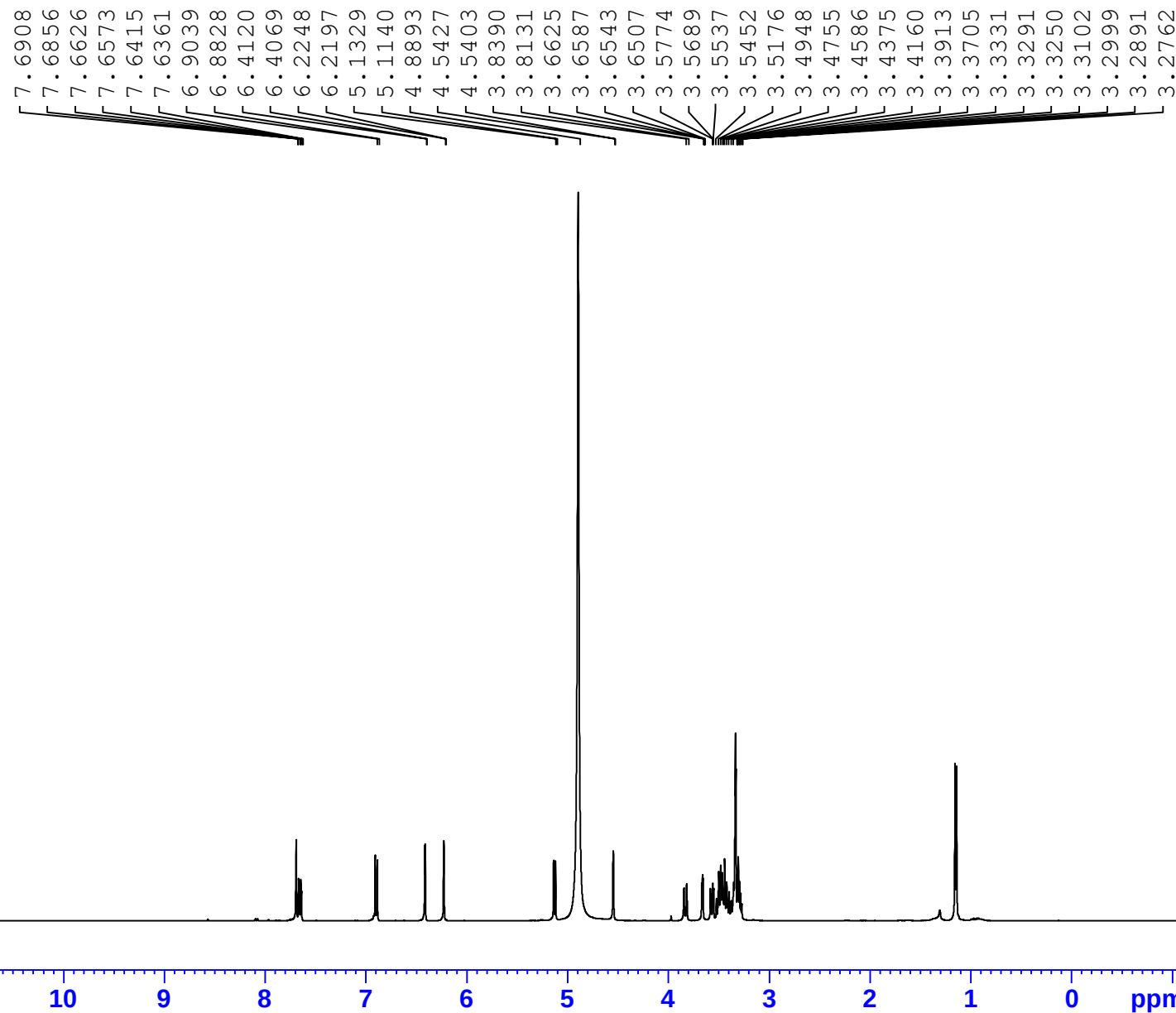
¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C4 (quercetin)

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E20
EXPNO 10
PROCNO 1

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Time 18.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C5 (rutin)

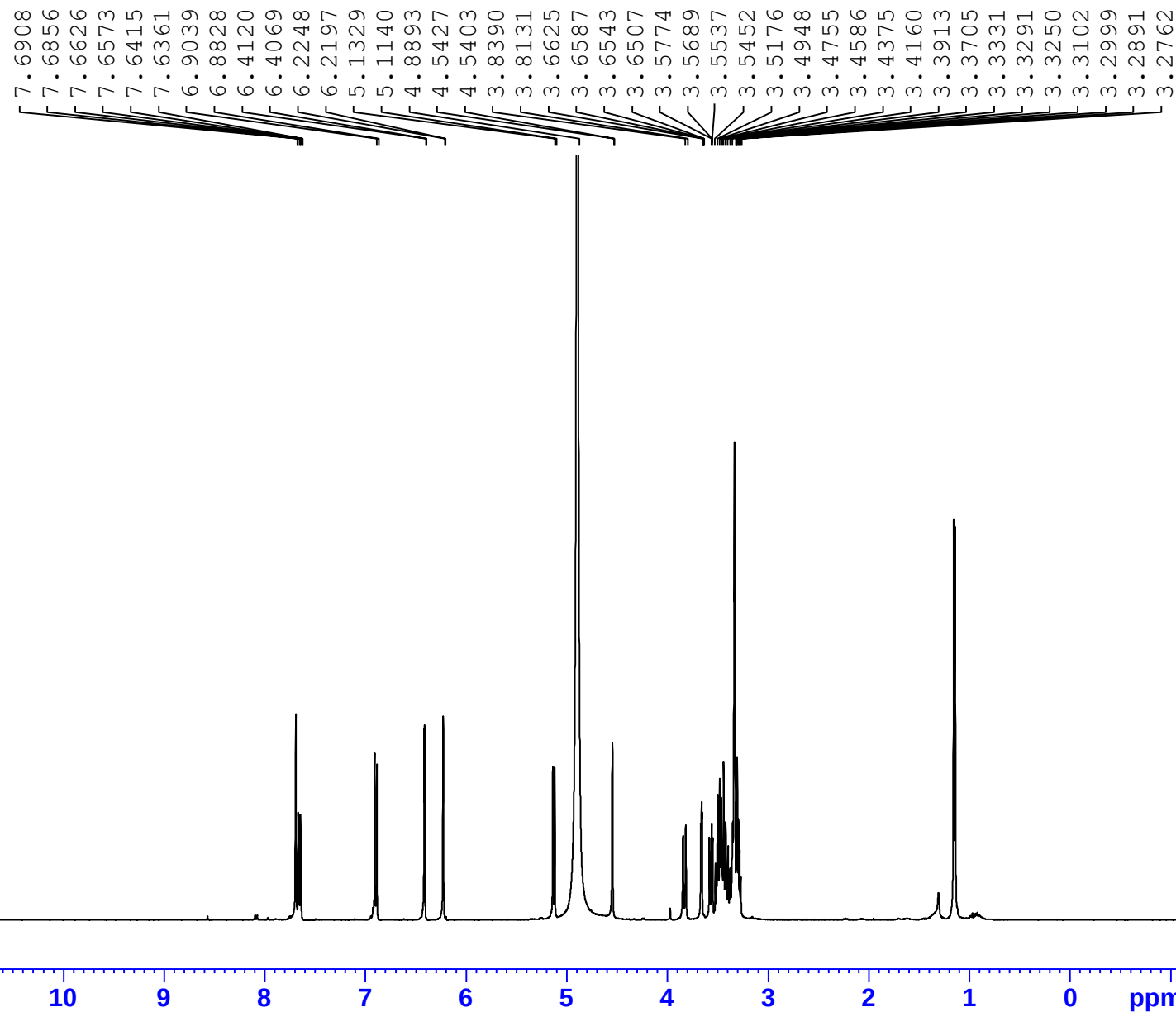
4.45
2.31
2.23
2.17
2.34
48.08
2.38
2.26
2.30
2.34
9.85
12.54
6.75

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E20
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 18.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C5 (rutin)

7.6908
7.6856
7.6626
7.6573
7.6415
7.6361

6.9039
6.8828

6.4120
6.4069

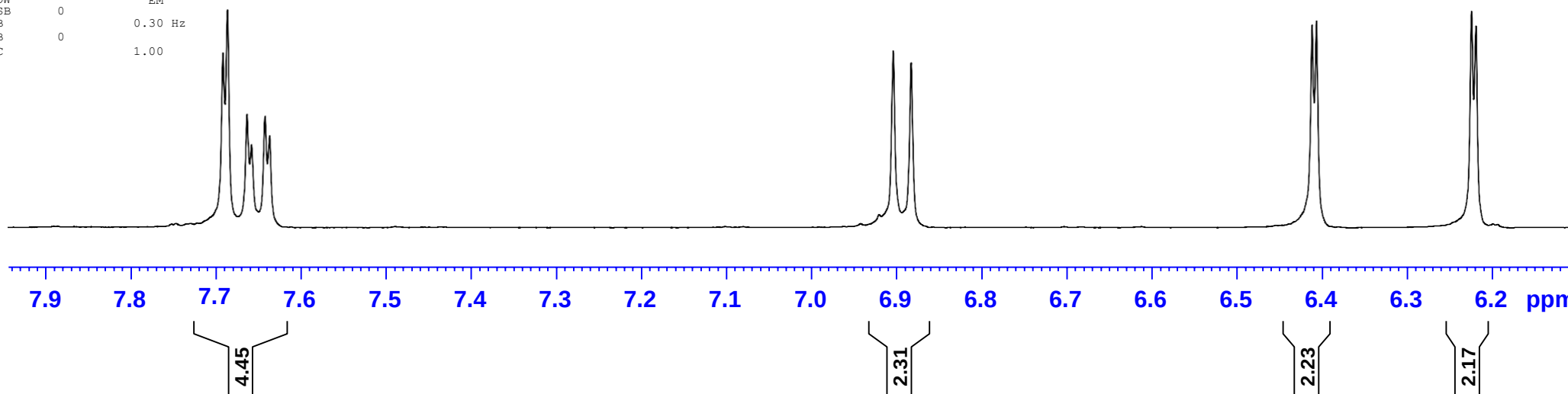
6.2248
6.2197

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E20
EXPNO 10
PROCNO 1

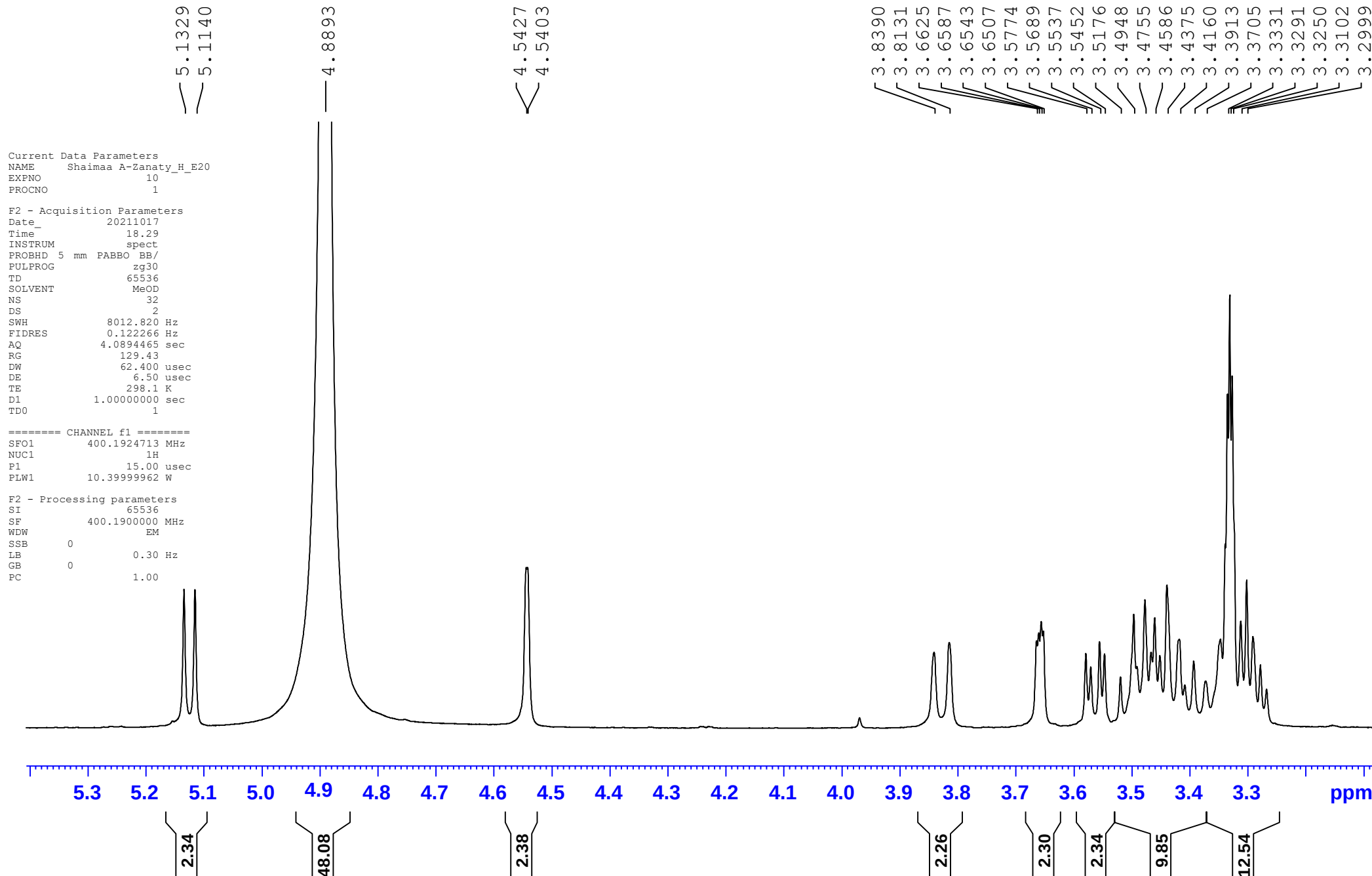
F2 - Acquisition Parameters
Date_ 20211017
Time 18.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C5 (rutin)

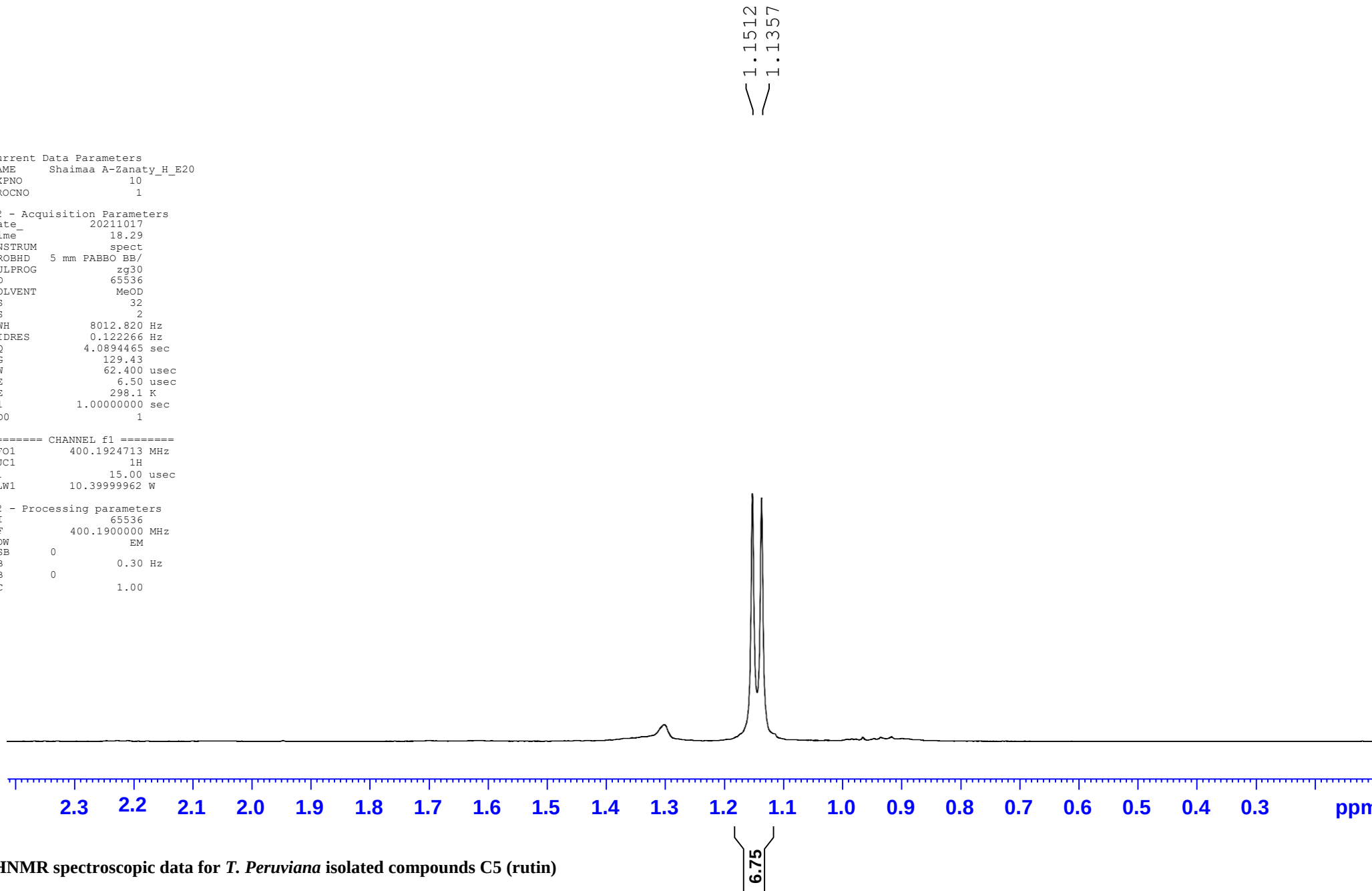


Current Data Parameters
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 18.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
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PC 1.00



¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C5 (rutin)

— 3.8390
— 3.8131

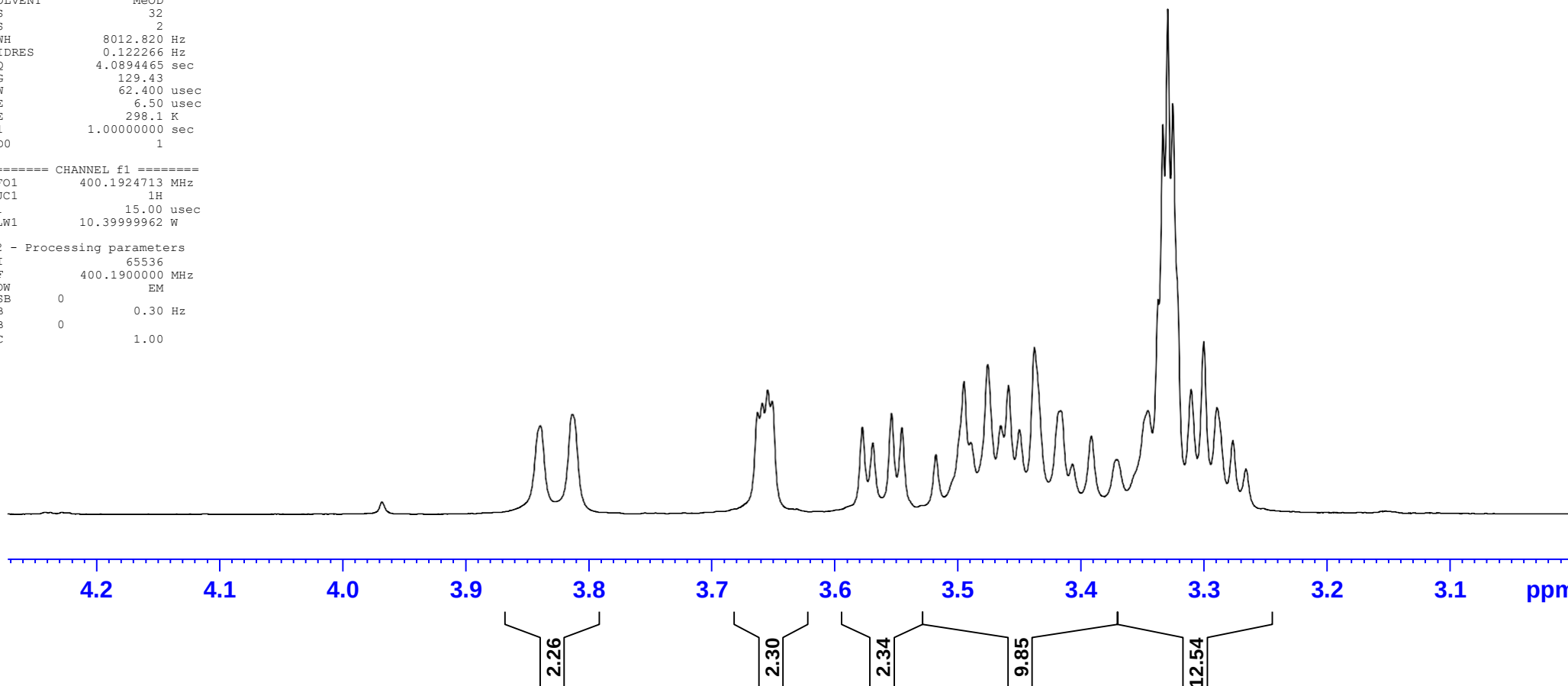
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3.6587
3.6543
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3.4586
3.4375
3.4160
3.3913
3.3705
3.3331
3.3291
3.3250
3.3102
3.2999
3.2891
3.2762

Current Data Parameters
NAME Shaimaa A-Zanaty_H_E20
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211017
Time 18.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 129.43
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



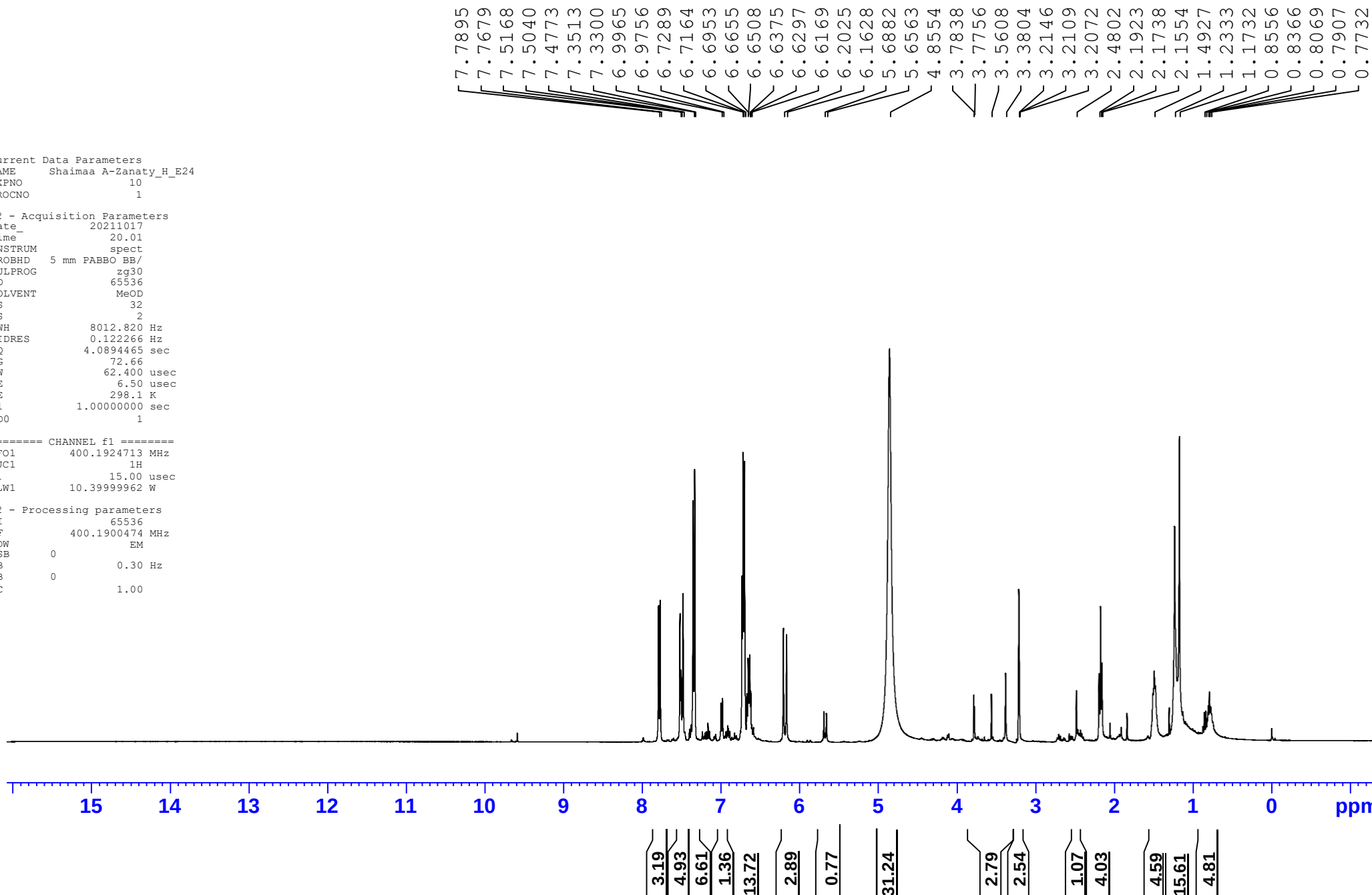
¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C5 (rutin)

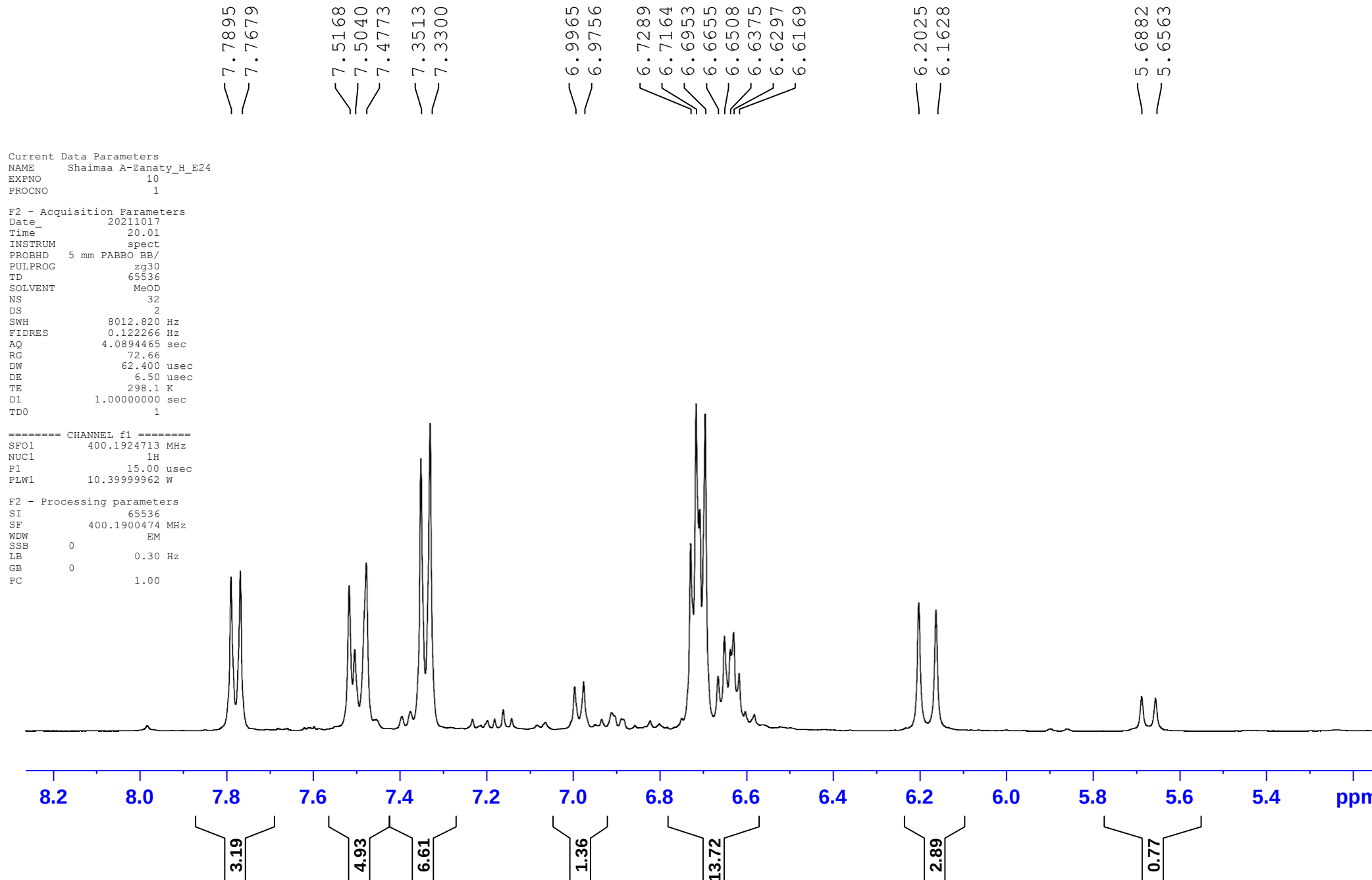
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EXPNO 10
PROCNO 1

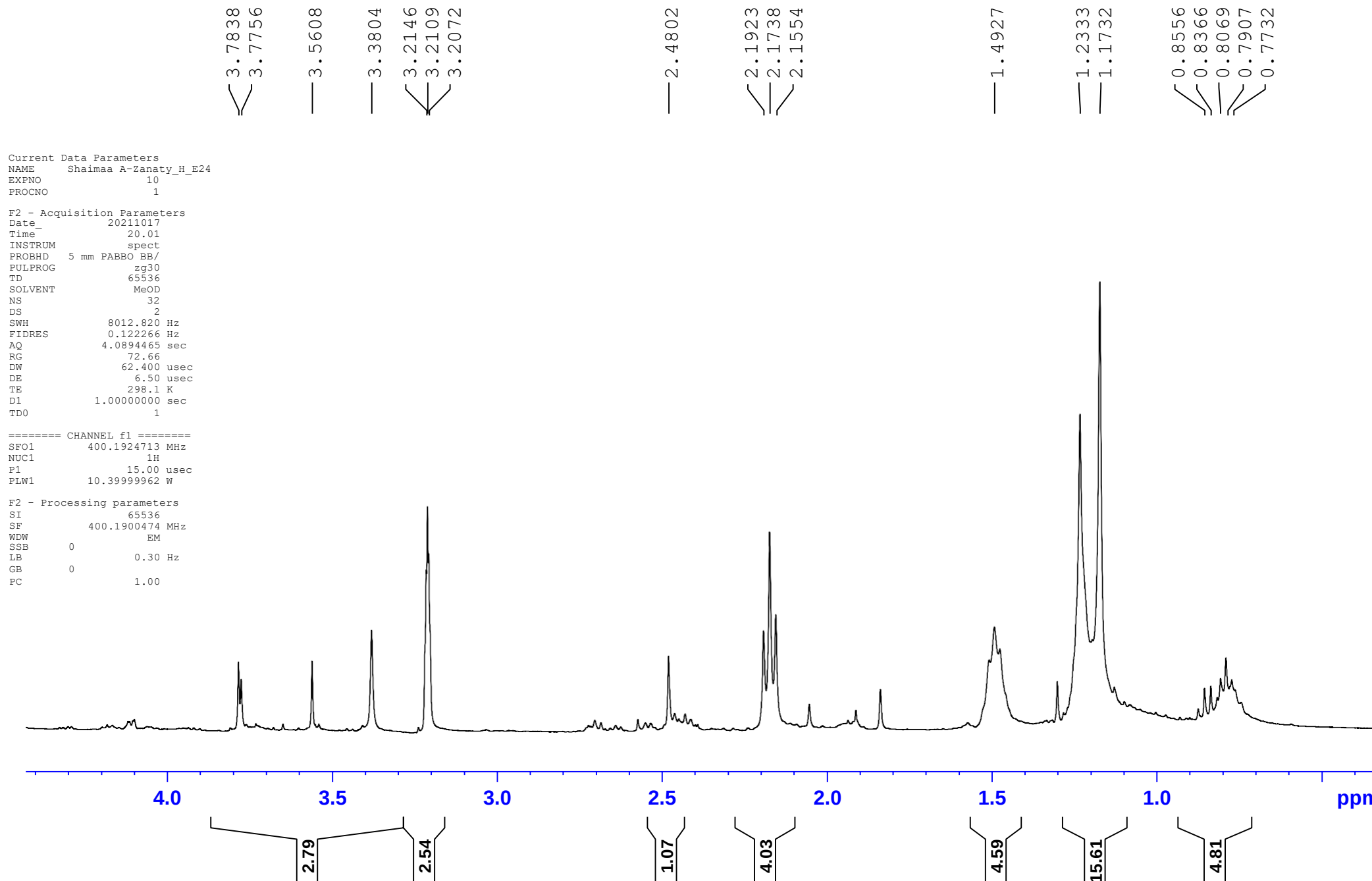
F2 - Acquisition Parameters
Date_ 20211017
Time 20.01
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PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 72.66
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

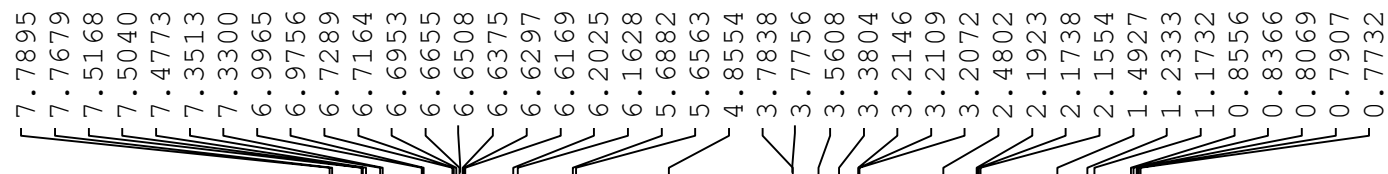
===== CHANNEL f1 =====
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NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900474 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





¹HNMR spectroscopic data for *T. Peruviana* isolated compounds C3 (p-coumaric acid)

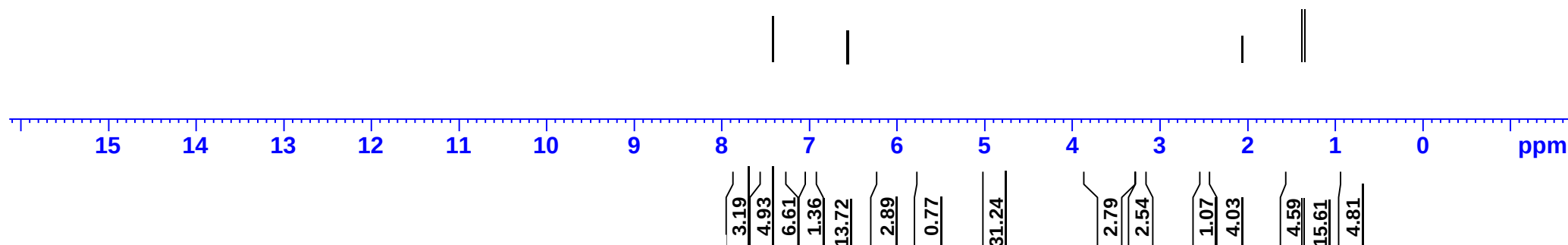


Current Data Parameters
NAME Shaimaa A-Zanaty_H_E24
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 20.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 72.66
DW 62.400 usec
DE 6.50 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1924713 MHz
NUC1 1H
P1 15.00 usec
PLW1 10.39999962 W

F2 - Processing parameters
SI 65536
SF 400.1900474 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



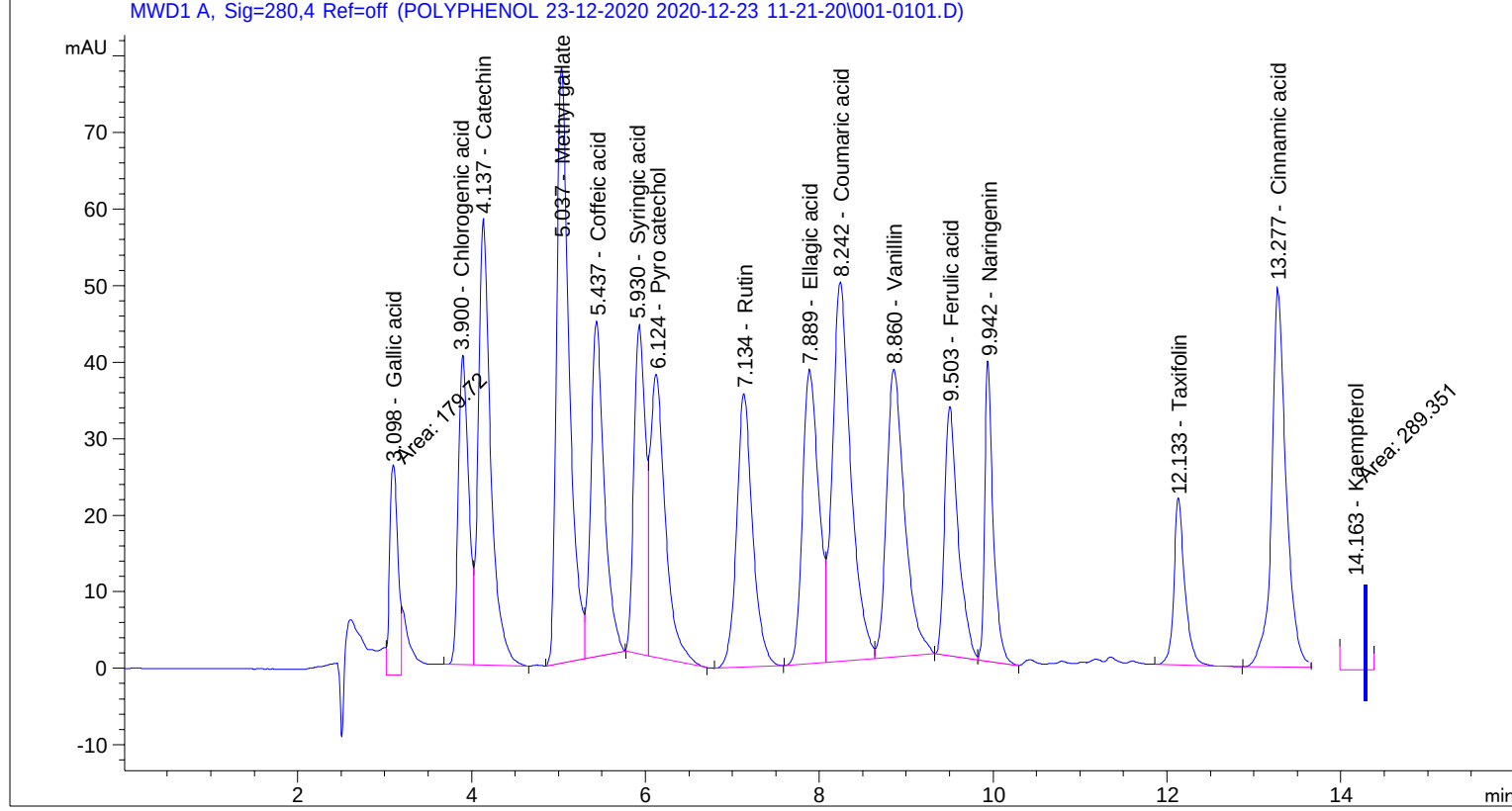
¹H NMR spectroscopic data for *T. Peruviana* isolated compounds C3 (p-coumaric acid)

Sample Name: STD

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Injection Date  : 23/12/2020 11:22:59 ص              Inj       :    1
                                                    Inj Volume: 10.000 µl

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Last changed    : 23/12/2020 11:21:22 ص by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\POLYPHENOL 23-12-2020 2020-12-23 11-21-20\POLYPHENOL 2017.
                  M (Sequence Method)
Last changed    : 23/12/2020 03:21:45 م by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
```



RP-HPLC analysis of the flavonoids in the EtOAc extract of *T. peruviana*

Area Percent Report

```
=====
Sorted By      :      Signal
Calib. Data Modified : 23/12/2020 12:38:15 م
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: MWD1 A, Sig=280,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.456		0.0000	0.00000	0.0000	
2	2.612		0.0000	0.00000	0.0000	

Sample Name: STD

3	2.846	0.0000	0.00000	0.0000	
4	3.098 MM	0.1088	179.71957	2.5320	Gallic acid

Sample Name: STD

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
5	3.900	BV	0.1266	335.22632	4.7230	Chlorogenic acid
6	4.137	VB	0.1467	584.15863	8.2301	Catechin
7	5.037	BV	0.1524	789.04626	11.1168	Methyl gallate
8	5.437	VB	0.1591	469.50729	6.6148	Coffeic acid
9	5.930	BV	0.1376	389.85916	5.4927	Syringic acid
10	6.124	VB	0.1787	451.95203	6.3675	Pyro catechol
11	7.134	BB	0.1892	457.55331	6.4464	Rutin
12	7.889	BV	0.1962	495.59625	6.9824	Ellagic acid
13	8.242	VV	0.2158	729.56311	10.2787	Coumaric acid
14	8.860	VB	0.2169	543.80945	7.6617	Vanillin
15	9.503	BV	0.1628	353.45154	4.9797	Ferulic acid
16	9.942	VB	0.1015	266.56055	3.7555	Naringenin
17	12.133	BB	0.1270	189.35466	2.6678	Taxifolin
18	13.277	BV	0.1681	573.08124	8.0741	Cinnamic acid
19	14.163	MM	0.1976	289.35132	4.0766	Kaempferol

Totals : 7097.79070

18 Warnings or Errors (10 first messages follow) :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

Warning : Invalid calibration curve, (Gallic acid)

Warning : Invalid calibration curve, (Chlorogenic acid)

Warning : Invalid calibration curve, (Catechin)

Warning : Invalid calibration curve, (Methyl gallate)

Warning : Invalid calibration curve, (Coffeic acid)

Warning : Invalid calibration curve, (Syringic acid)

Warning : Invalid calibration curve, (Pyro catechol)

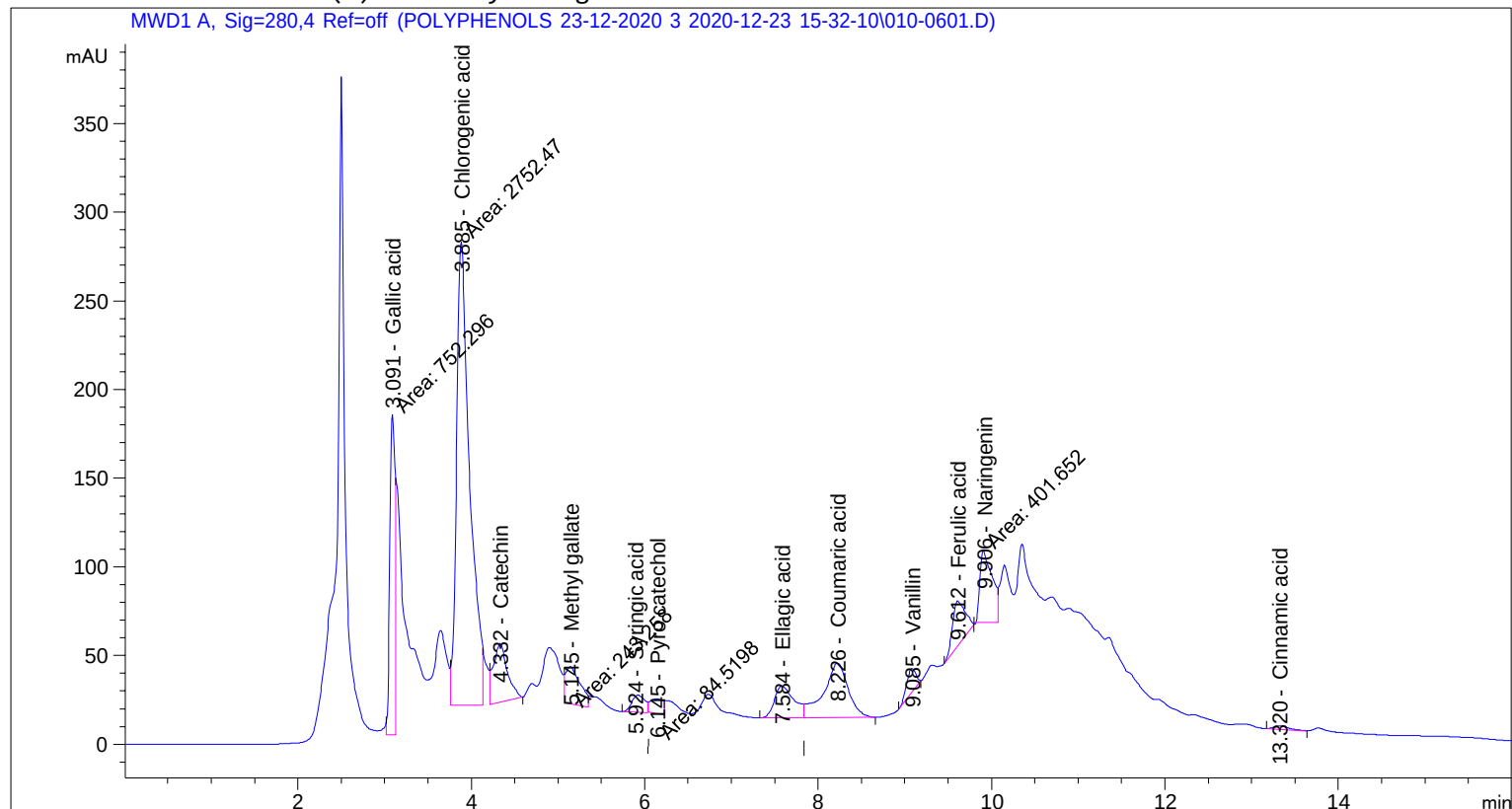
Warning : Invalid calibration curve, (Rutin)

*** End of Report ***

Sample Name: Dr/Shimaa El Zenaty

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : hplc -2                    Location  : Vial 10
Injection Date  : 23/12/2020 05:26:17 µ      Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method     : C:\CHEM32\1\DATA\POLYPHENOLS 23-12-2020 3 2020-12-23 15-32-10\POLYPHENOL
                  2017.M
Last changed    : 23/12/2020 03:32:12 µ by SYSTEM
Analysis Method : C:\CHEM32\1\DATA\POLYPHENOLS 23-12-2020 3 2020-12-23 15-32-10\POLYPHENOL
                  2017.M (Sequence Method)
Last changed    : 24/12/2020 02:01:23 µ by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



RP-HPLC analysis of the phenolics in the EtOAc extract of *T. peruviana*

Area Percent Report

```

Sorted By      :      Signal
Calib. Data Modified :      24 December, 2020 02:01:07 µ
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: MWD1 A, Sig=280,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.458		0.0000	0.00000	0.0000	
2	2.616		0.0000	0.00000	0.0000	
3	2.854		0.0000	0.00000	0.0000	

Sample Name: Dr/Shimaa El Zenaty

4	3.091 MM	0.0693	752.29633	12.5788	Gallic acid
---	----------	--------	-----------	---------	-------------

Sample Name: Dr/Shimaa El Zenaty

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
5	3.885	MM	0.1755	2752.46826	46.0228	Chlorogenic acid
6	4.332	VB	0.1624	378.02951	6.3209	Catechin
7	5.145	MM	0.1950	243.25775	4.0674	Methyl gallate
8	5.457		0.0000	0.00000	0.0000	Coffeic acid
9	5.924	BV	0.1570	100.44237	1.6795	Syringic acid
10	6.145	MM	0.1698	84.51979	1.4132	Pyro catechol
11	7.203		0.0000	0.00000	0.0000	Rutin
12	7.584	BV	0.2308	283.04099	4.7326	Ellagic acid
13	8.226	VB	0.2867	612.48138	10.2410	Coumaric acid
14	9.085	BB	0.1213	97.62782	1.6324	Vanillin
15	9.612	BB	0.1540	252.71425	4.2255	Ferulic acid
16	9.906	MM	0.1625	401.65158	6.7158	Naringenin
17	11.179		0.0000	0.00000	0.0000	
18	11.333		0.0000	0.00000	0.0000	
19	12.140		0.0000	0.00000	0.0000	Taxifolin
20	13.320	BV	0.1816	22.13432	0.3701	Cinnamic acid
21	14.171		0.0000	0.00000	0.0000	Kaempferol

Totals : 5980.66434

14 Warnings or Errors (10 first messages follow) :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

Warning : Invalid calibration curve, (Gallic acid)

Warning : Invalid calibration curve, (Chlorogenic acid)

Warning : Invalid calibration curve, (Catechin)

Warning : Invalid calibration curve, (Methyl gallate)

Warning : Invalid calibration curve, (Syringic acid)

Warning : Invalid calibration curve, (Pyro catechol)

Warning : Invalid calibration curve, (Ellagic acid)

Warning : Invalid calibration curve, (Coumaric acid)

*** End of Report ***