

Electronic Supplementary Information

Enantioselective total synthesis of Plakotenin, a cytotoxic metabolite from *Plakortis sp.*

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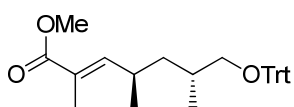
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General experimental details

^1H - and ^{13}C NMR spectra were recorded on a *Bruker* AM 400 (400 MHz/100 MHz), *Bruker* DRX 500 (500 MHz/125 MHz) or *Bruker* Avance 600 (600 MHz/150 MHz) instrument using CDCl_3 as solvent. Chemical shifts are expressed in parts per million (ppm, δ) downfield from tetramethylsilane (TMS) and are referenced to CHCl_3 (7.26 ppm) as internal standard. All coupling constants are absolute values and J values are expressed in Hertz (Hz). For assigning signal separation of ^1H NMR spectra the following abbreviations were used: s = singlet, bs = broad singlet, d = doublet, t = triplet, q = quartet, sext = sextet, m = multiplet, dd = doublet of doublets, dq = doublet of quartets, ddq = doublet of dq and $\text{H}_{\text{arom.}}$ = aromatic proton. For assigning signals of ^{13}C NMR spectra the following abbreviations were used: p = primary (RCH_3), s = secondary (R_2CH_2), t = tertiary (R_3CH), q = quaternary (R_4C). The assignment was supported by analysis of DEPT90 and DEPT135 spectra. MS (EI) (electron impact mass spectrometry), MS (FAB) (fast atom bombardment mass spectrometry) and HRMS: *Finnigan* MAT 90. The molecular fragments are quoted as the relation between mass and charge (m/z), the intensities as a percentage value relative to the intensity of the base signal (100%). The molecular ion obtains the abbreviation $[\text{M}^+]$. IR (infrared spectroscopy): FT-IR *Bruker* IFS 88. IR spectra of oils were recorded as thin films on KBr, in case of solids the neat substance was used. The deposit of the absorption band is given in wave numbers in cm^{-1} . Solvents and chemicals used for reactions were purchased from commercial suppliers. Solvents were dried under standard conditions; chemicals were used without further purification. All the reactions were performed in standard glassware. All reactions were carried out under Argon in flame-dried glassware. Evaporation of solvents and concentration of reaction mixtures were performed *in vacuo* on a *Büchi* rotary evaporator. Column chromatography was performed using silica gel 60 (purchased from *Merck*) under flash conditions. For thin layer chromatography, aluminum foils layered with silica gel with fluorescence indicator (silica gel 60 F_{254}) produced by *Merck* were employed. The detection was carried out with an UV-lamp from *Heraeus*, model Fluotest. Seebach-reagent [molybdophosphoric acid (2.5 w %), cerium(IV) sulfate tetrahydrate (1.0 w %), H_2SO_4 conc. (6.0 w %), water (90.5 w %)] was used as dipping reagent. Specific rotations were determined using the polarimeter *Perkin Elmer* 241. Melting points were registered on a Mel-Temp II melting point microscope from *Laboratory Devices Inc.* and are not corrected.

Experimental procedures and characterisation data for new compounds

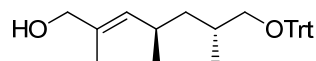
(4*R*,6*R*,*E*)-Methyl 2,4,6-trimethyl-7-(trityloxy)hept-2-enoate (S1)



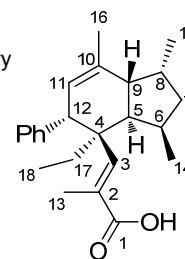
To a solution of alcohol 9a (2.03 g, 5.42 mmol) in DMSO (20 mL) was added 2-iodobenzoic acid (3.79 g, 13.6 mmol). The reaction mixture was stirred at rt for 2.5 h, after which it was diluted with H₂O (100 mL) and the resulting precipitate filtered off. The aqueous layer was extracted with Et₂O (3 × 40 mL). The combined organic extracts were dried (MgSO₄) and evaporated under reduced pressure to yield the crude aldehyde 10 (2.02 g, 5.42 mmol, assumed to be quantitative) as colourless oil, which was used without further purification for the following olefination reaction.

To a solution of the crude aldehyde 10 (2.02 g, 5.42 mmol) in toluene (20 mL) was added methyl 2-(triphenylphosphoranylidene)propanoate (2.83 g, 8.13 mmol) at rt. The reaction mixture was heated under reflux for 17 h. The crude product was purified by column chromatography on silica using cyclohexane/ethyl acetate 50:1 to give ester S1 (2.11 g, 88%) as colourless oil. A 14:1 ratio of *E/Z* products was obtained which was measured from the ¹H NMR spectrum of the crude reaction mixture. *R*_f = 0.31 (cyclohexane/EtOAc 18:1). – [α]_D²⁰ = –41.2 (0.26 g/100 mL, CHCl₃). – ¹H NMR (400 MHz, CDCl₃): δ = 0.91 (d, *J* = 6.6 Hz, 3 H, TrtOCH₂CHCH₃), 1.02 (d, *J* = 6.7 Hz, 3 H, C=CHCHCH₃), 1.11–1.18 (m, 1 H, CHCH_AH_BCH), 1.46–1.53 (m, 1 H, CHCH_AH_BCH), 1.60 (d, *J* = 1.4 Hz, 3 H, MeCO₂CCH₃), 1.64–1.75 (m, 1 H, TrtOCH₂CH), 2.29–2.40 (m, 1 H, C=CHCH), 2.81 (dd, *J* = 8.7 Hz, *J* = 6.4 Hz, 1 H, TrtOCH_AH_B), 3.00 (dd, *J* = 8.7 Hz, *J* = 4.7 Hz, 1 H, TrtOCH_AH_B), 3.71 (s, 3 H, CO₂CH₃), 6.50 (dd, *J* = 10.1 Hz, *J* = 1.4 Hz, 1 H, C=CH), 7.19–7.30 (m, 9 H, H_{arom.}), 7.42–7.45 (m, 6 H, H_{arom.}). – ¹³C NMR (100 MHz, CDCl₃): δ = 12.3 (p), 18.3 (p), 20.0 (p), 30.6 (t), 31.8 (t), 40.8 (s), 51.6 (p), 67.3 (s), 86.0 (q), 125.8 (q), 126.8 (t), 127.6 (t), 128.7 (t), 144.4 (q), 148.3 (t), 168.8 (q). – IR (film): $\tilde{\nu}$ = 3058, 3023, 2956, 2926, 2869, 1715, 1649, 1597, 1490, 1448, 1386, 1315, 1271, 1212, 1154, 1092, 1070, 1032, 989, 898, 813, 764, 748, 707, 648, 632 cm^{–1}. – MS (EI, 70 eV) *m/z* (%): 442 (0.02) [M⁺], 243 (100), 183 (9), 165 (15), 105 (15), 77 (4). – HRMS (C₃₀H₃₄O₃): calc. 442.2508, found 442.2505.

(4*R*,6*R*,*E*)-2,4,6-Trimethyl-7-(trityloxy)hept-2-en-1-ol (S2)



To a solution of ester **S1** (1.92 g, 4.34 mmol) in THF (80 mL) at 0 °C was slowly added lithium aluminium hydride (168 mg, 4.43 mmol). The reaction mixture was stirred at rt for 19 h, after which it was cooled to 0 °C and quenched with H₂O (50 mL) followed by Rochelle's salt solution (50 mL) and the reaction mixture stirred at rt for 15 h. The aqueous layer was extracted with EtOAc (3 × 50 mL). The combined organic extracts were dried (MgSO₄) and evaporated under reduced pressure. The crude product was purified by column chromatography on silica using cyclohexane/ethyl acetate 9:1 to give alcohol **S2** (1.62 g, 90%) as colourless oil. *R*_f = 0.06 (cyclohexane/EtOAc 12:1). – [α]_D²⁰ = –25.1 (1.08 g/100 mL, CHCl₃). – ¹H NMR (400 MHz, CDCl₃): δ = 0.86 (d, *J* = 6.6 Hz, 3 H, TrtOCH₂CHCH₃), 1.01 (d, *J* = 6.7 Hz, 3 H, C=CHCHCH₃), 1.03–1.09 (m, 1 H, CHCH_AH_BCH), 1.28 (t, *J* = 6.1 Hz, 1 H, OH), 1.36–1.41 (m, 1 H, CHCH_AH_BCH), 1.44 (d, *J* = 1.3 Hz, 3 H, HOCH₂CCH₃), 1.69–1.77 (m, 1 H, TrtOCH₂CH), 2.20–2.31 (m, 1 H, C=CHCH), 2.81 (dd, *J* = 8.6 Hz, *J* = 6.7 Hz, 1 H, TrtOCH_AH_B), 2.99 (dd, *J* = 8.6 Hz, *J* = 4.8 Hz, 1 H, TrtOCH_AH_B), 3.92 (d, *J* = 5.6 Hz, 2 H, HOCH₂), 5.12 (dd, *J* = 9.5 Hz, *J* = 1.2 Hz, 1 H, C=CH), 7.19–7.30 (m, 9 H, H_{arom.}), 7.43–7.46 (m, 6 H, H_{arom.}). – ¹³C NMR (100 MHz, CDCl₃): δ = 13.6 (p), 18.3 (p), 20.9 (p), 29.4 (t), 31.6 (t), 41.5 (s), 67.7 (s), 69.0 (s), 86.0 (q), 126.8 (t), 127.6 (t), 128.8 (t), 132.9 (t), 133.0 (q), 144.5 (q). – IR (film): $\tilde{\nu}$ = 3331, 3086, 3058, 3032, 2955, 2920, 2867, 1597, 1490, 1448, 1385, 1317, 1265, 1220, 1182, 1154, 1068, 1032, 1003, 926, 899, 849, 801, 774, 764, 746, 707, 648, 633, 618, 482 cm^{–1}. – MS (EI, 70 eV) *m/z* (%): 414 (0.03) [M⁺], 243 (100), 183 (3), 165 (12), 105 (3). – HRMS (C₂₉H₃₄O₂): calc. 414.2559, found 414.2561.



Comparison of natural and synthetic Plakotenin^[1]

¹ H NMR data of natural Plakotenin	¹ H NMR data of synthetic Plakotenin
0.78 (t, <i>J</i> = 7.4 Hz, 3 H, 18-H)	0.78 (t, <i>J</i> = 7.0 Hz, 3 H, 18-H)
0.98 (d, <i>J</i> = 6.0 Hz, 3 H, 15-H)	0.98 (d, <i>J</i> = 6.5 Hz, 3 H, 15-H)
1.08 (m, 1 H, 17-H)	1.03–1.12 (m, 1 H, 17-H)
1.15 (d, <i>J</i> = 6.0 Hz, 3 H, 14-H)	1.16 (d, <i>J</i> = 6.5 Hz, 3 H, 14-H)
1.55 (m, 2 H, 7-H)	1.56 (t, <i>J</i> = 8.5 Hz, 3 H, 7-H)
1.77 (m, 1 H, 17-H)	1.73–1.80 (m, 3 H, 5-H, 9-H and 17-H)
1.78 (m, 1 H, 5-H)	
1.80 (m, 1 H, 9-H)	
1.81 (bs, 3 H, 16-H)	1.83 (s, 3 H, 16-H)
1.86 (m, 1 H, 6-H)	1.86–1.95 (m, 2 H, 6-H and 8-H)
1.89 (m, 1 H, 8-H)	
2.06 (s, 3 H, 13-H)	2.07 (s, 3 H, 13-H)
3.69 (bs, 1 H, 12-H)	3.71 (d, <i>J</i> = 4.0 Hz, 1 H, 12-H)
5.22 (bs, 1 H, 11-H)	5.23 (s, 1 H, 11-H)
7.00 (s, 1 H, 3-H)	7.03 (s, 1 H, 3-H)
7.22 (m, 1 H, H _{arom.})	7.21–7.25 (m, 1 H, H _{arom.})
7.28 (m, 4 H, H _{arom.})	7.29–7.30 (m, 4 H, H _{arom.})
¹³ C NMR data of natural Plakotenin	¹³ C NMR data of synthetic Plakotenin
9.3 (p)	9.4 (p)
13.9 (p)	14.0 (p)
21.7 (p)	21.9 (p)
22.3 (p)	22.5 (p)
23.1 (p)	23.3 (p)
27.0 (s)	27.1 (s)
31.6 (t)	31.7 (t)
34.6 (t)	34.7 (t)
45.0 (s)	45.1 (s)
48.1 (q)	48.2 (q)
52.0 (t)	52.2 (t)
52.4 (t)	52.5 (t)
55.3 (t)	55.4 (t)
125.2 (t)	125.3 (t)
126.5 (t)	126.6 (t)
127.0 (q)	127.3 (q)
127.8 (2 t)	127.9 (2 t)
130.9 (2 t)	131.0 (2 t)
137.1 (q)	137.2 (q)
141.9 (q)	142.1 (q)
149.4 (t)	149.7 (t)
173.5 (q)	174.8 (q)

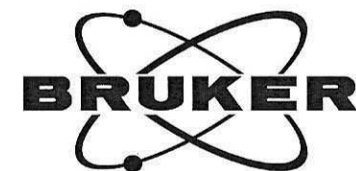
Synthetic Plakotenin contains traces of grease (cf. ¹³C spectrum on page 35).

$[\alpha]_{\text{D}}^{20}$ natural = +204 (0.2 g/100 mL, CHCl_3).

$[\alpha]_{\text{D}}^{20}$ synthetic = +212 (0.24 g/100 mL, CHCl_3).

MS natural (EI) m/z (%): 352 (30) $[\text{M}^+]$, 261 (25), 225 (60), 171 (80), 91 (100).

MS synthetic (EI, 70 eV) m/z (%): 352 (100) $[\text{M}^+]$, 261 (48), 225 (84), 171 (70).

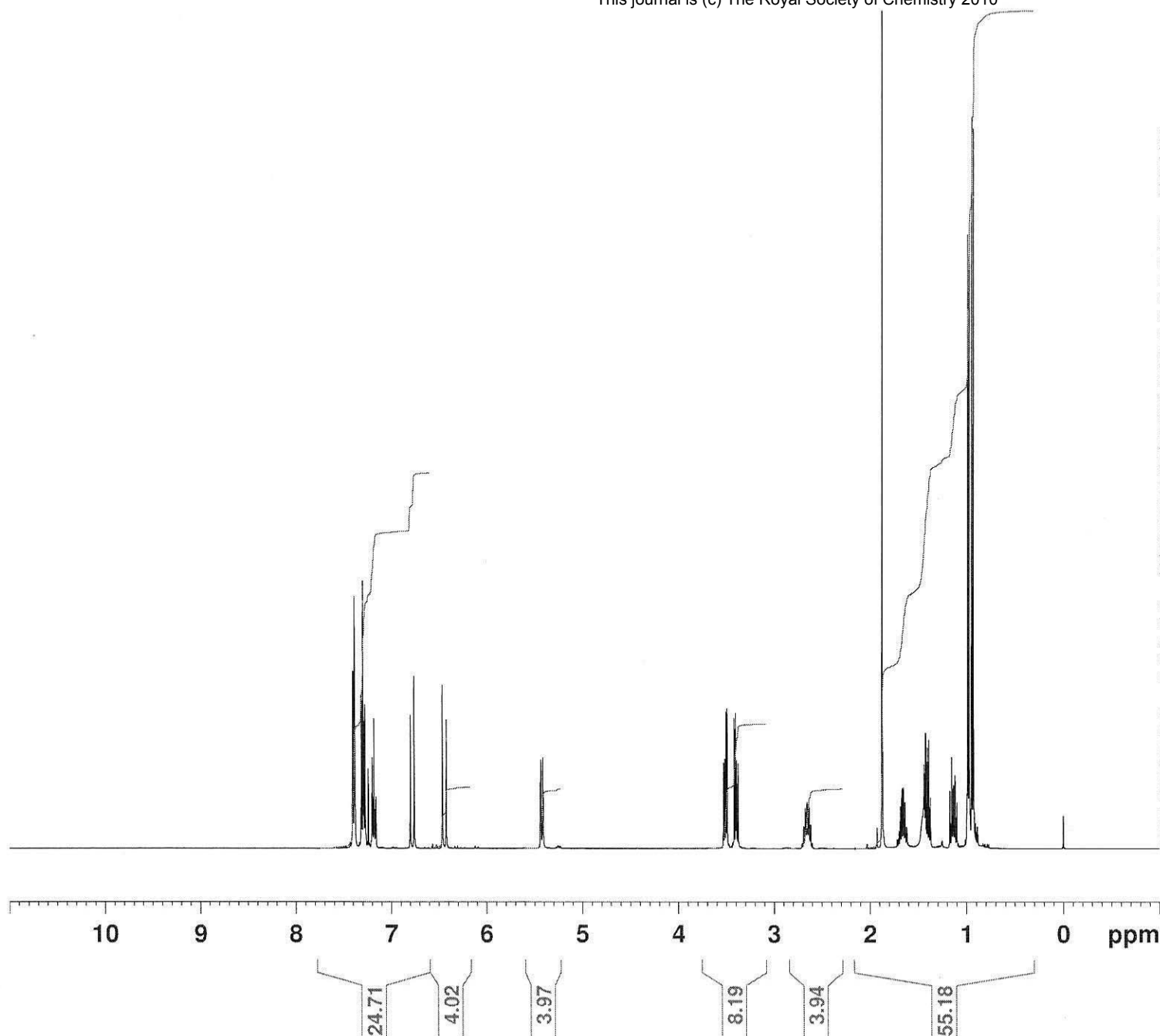


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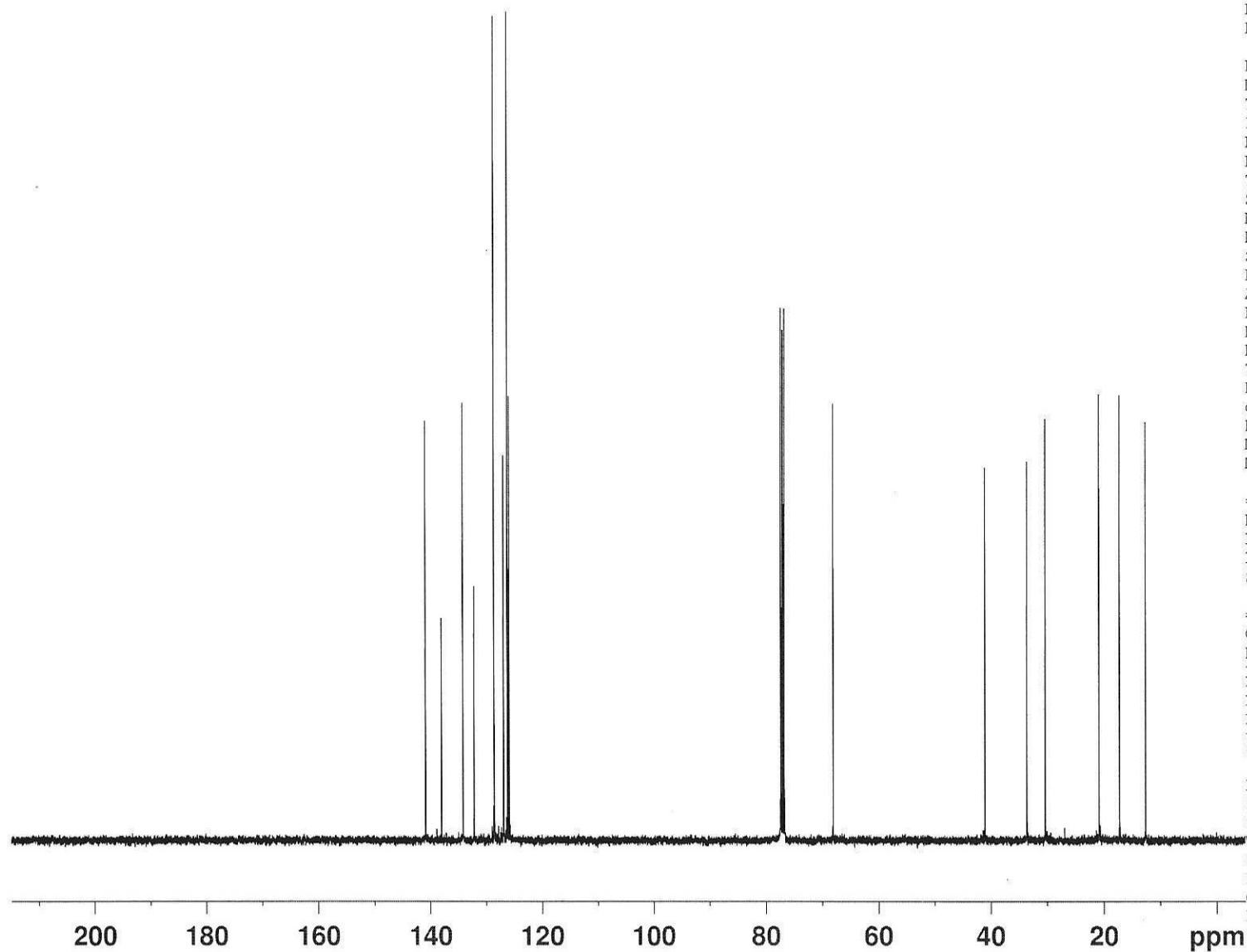
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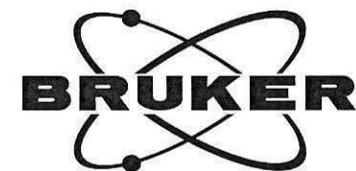
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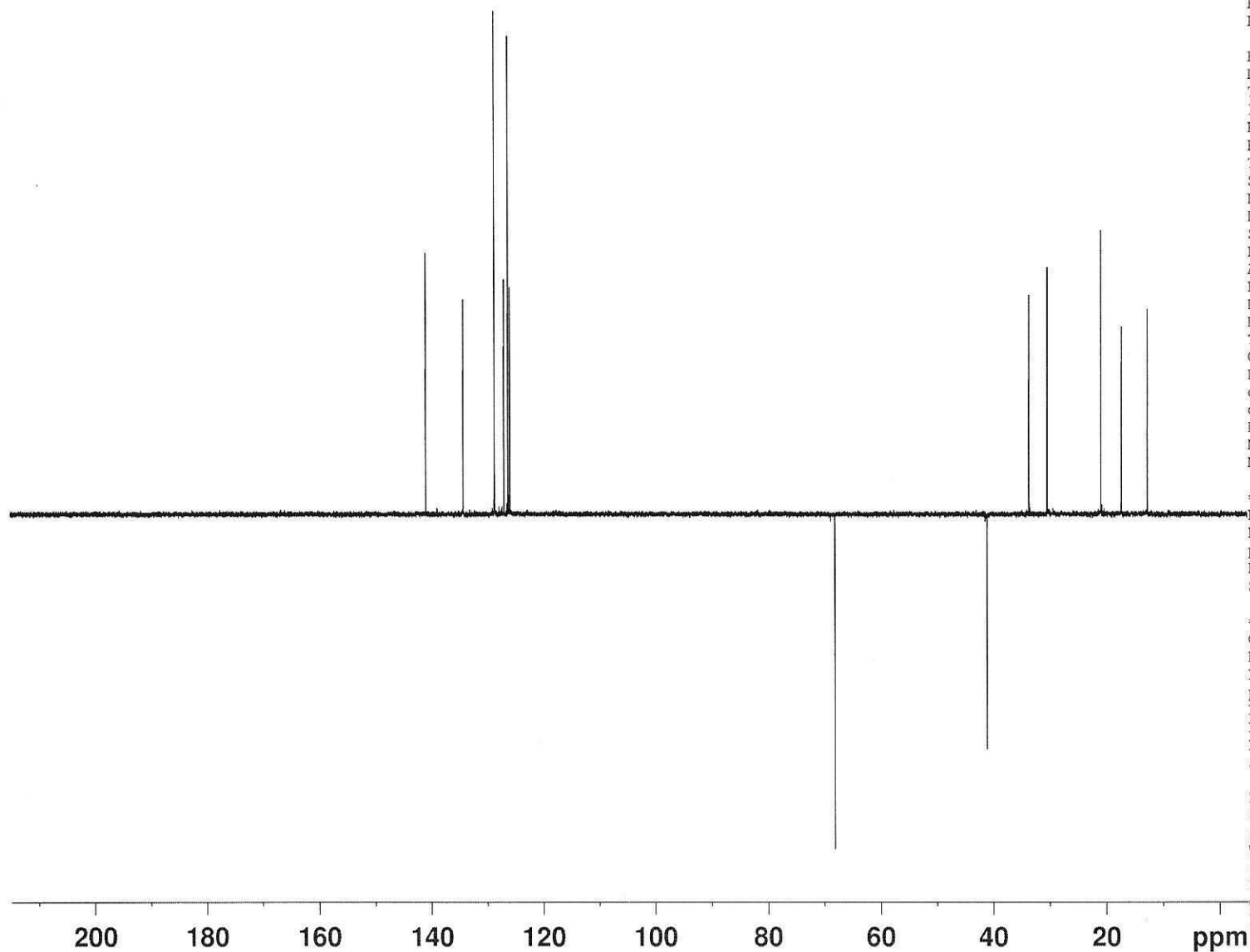
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PL12 9.33 dB
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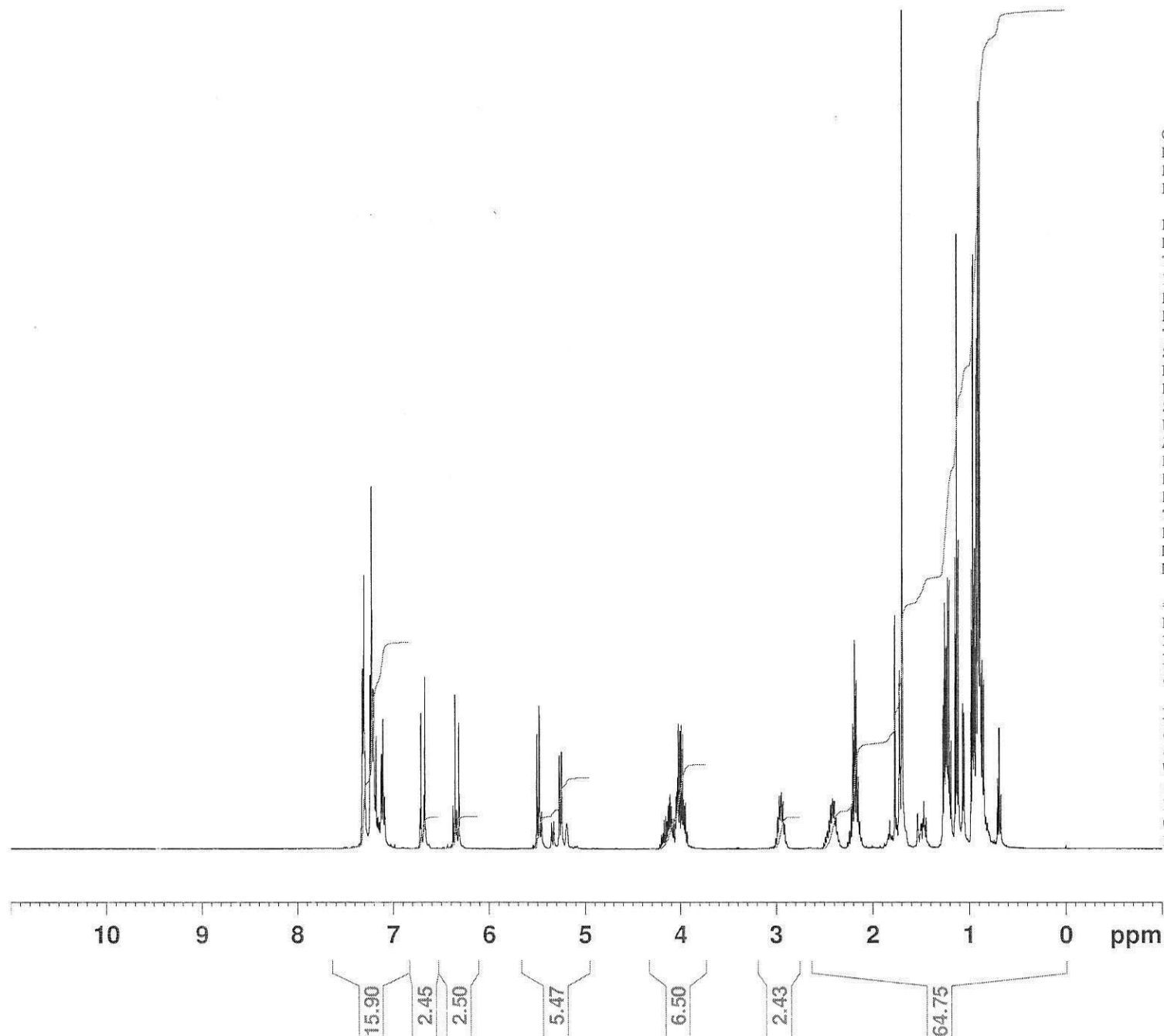


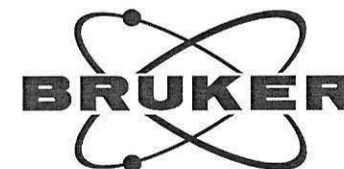
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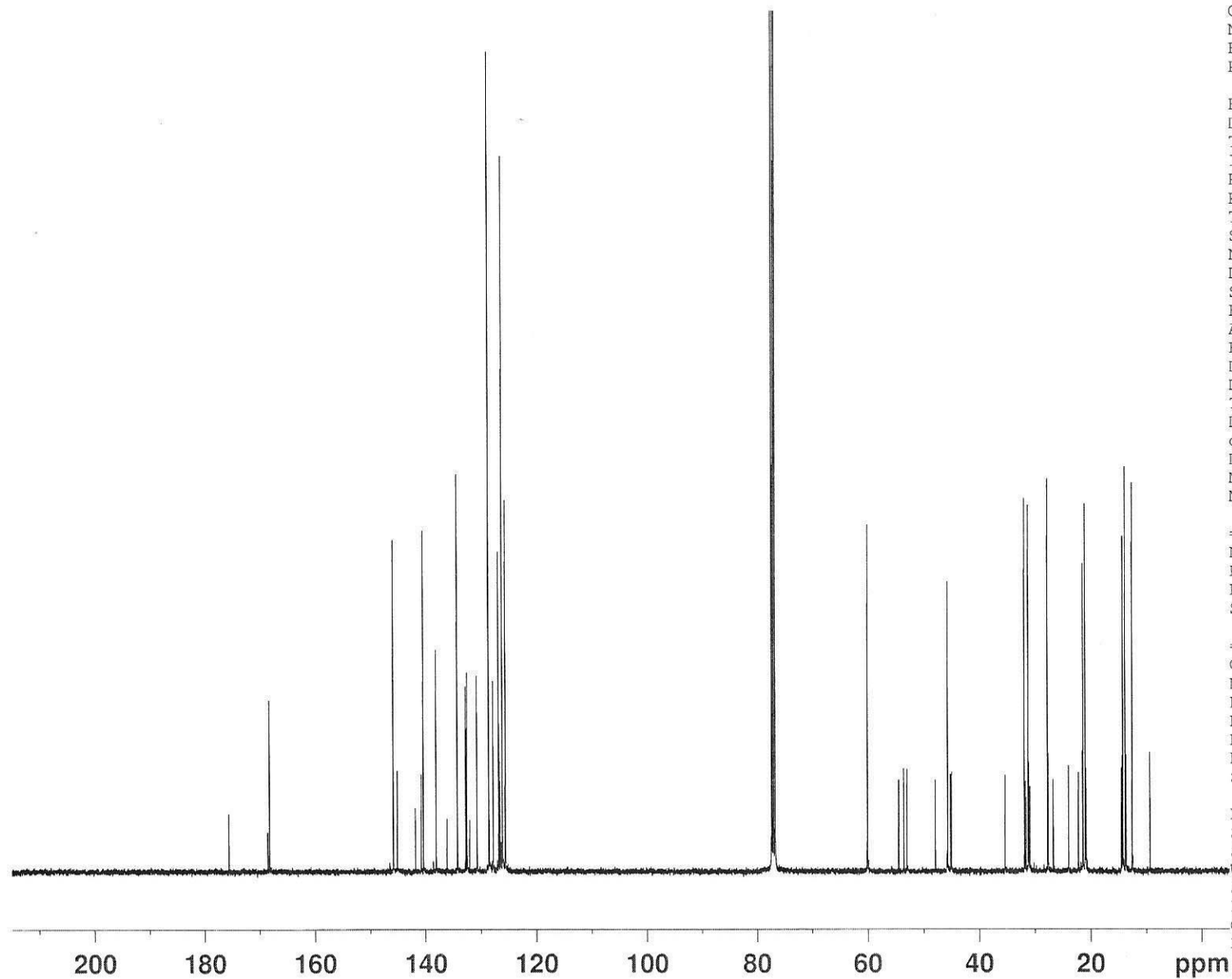
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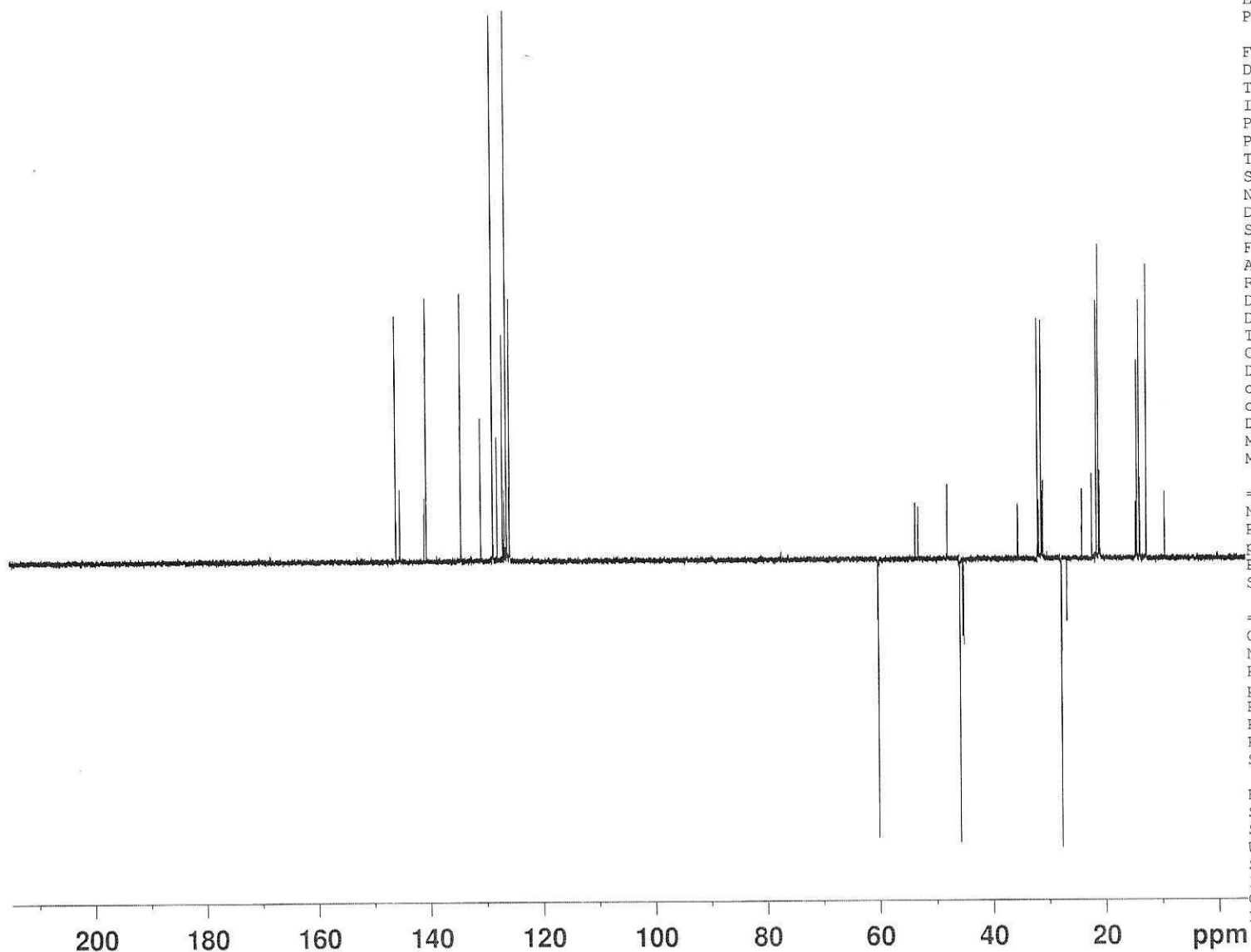
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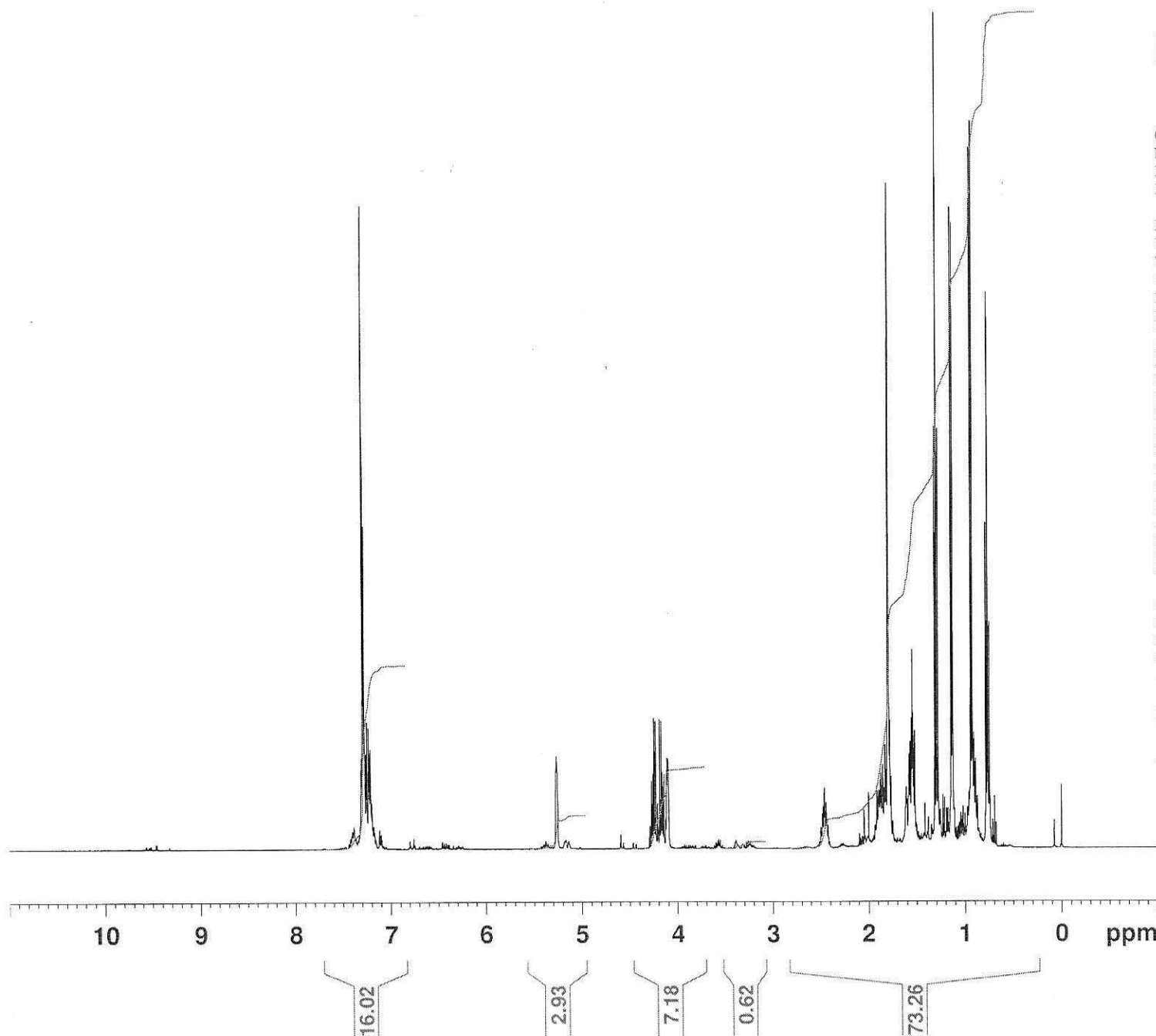


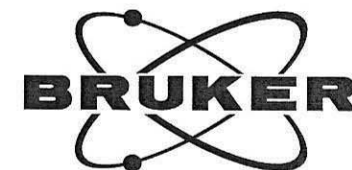
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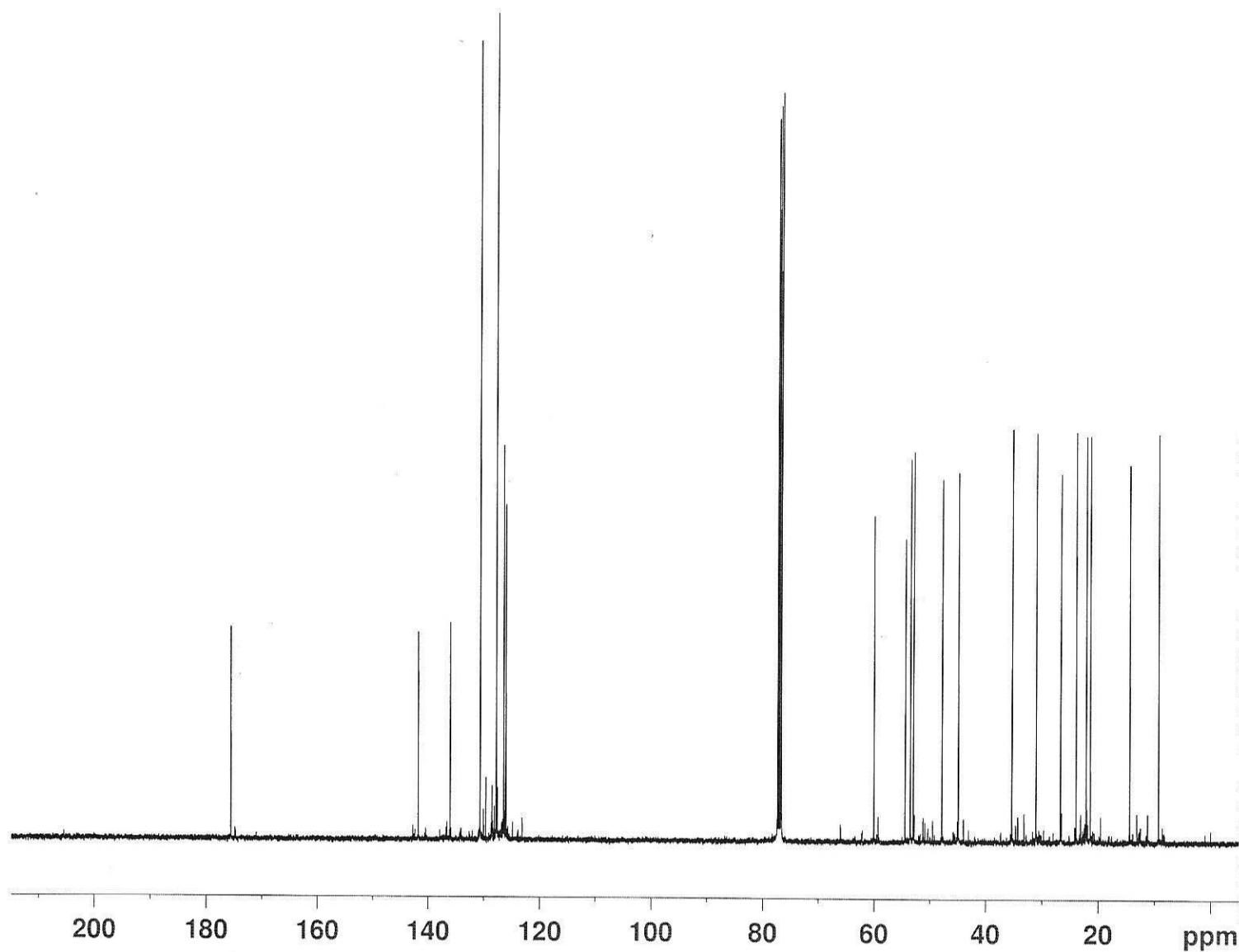
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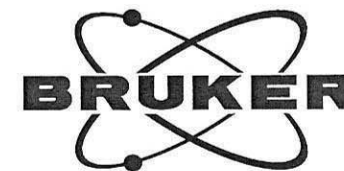
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d11 0.03000000 sec
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P1 10.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
PL13 9.30 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127714 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





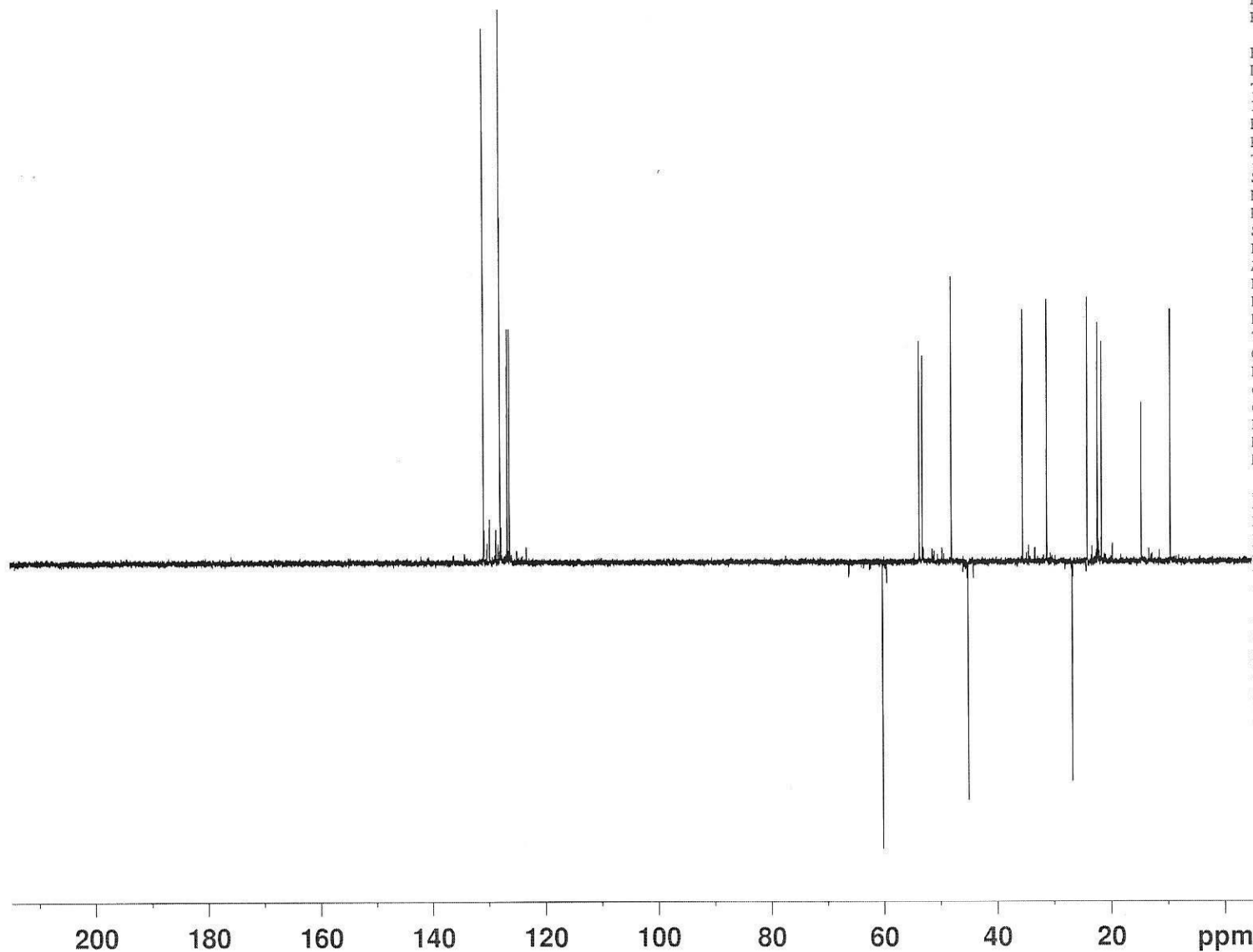
Current Data Parameters
NAME Oct29-2009
EXPNO 62
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091029
Time 21.39
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 256
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 29193
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001273 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
p2 20.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 19.00 usec
p4 38.00 usec
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
CB 0
PC 1.40



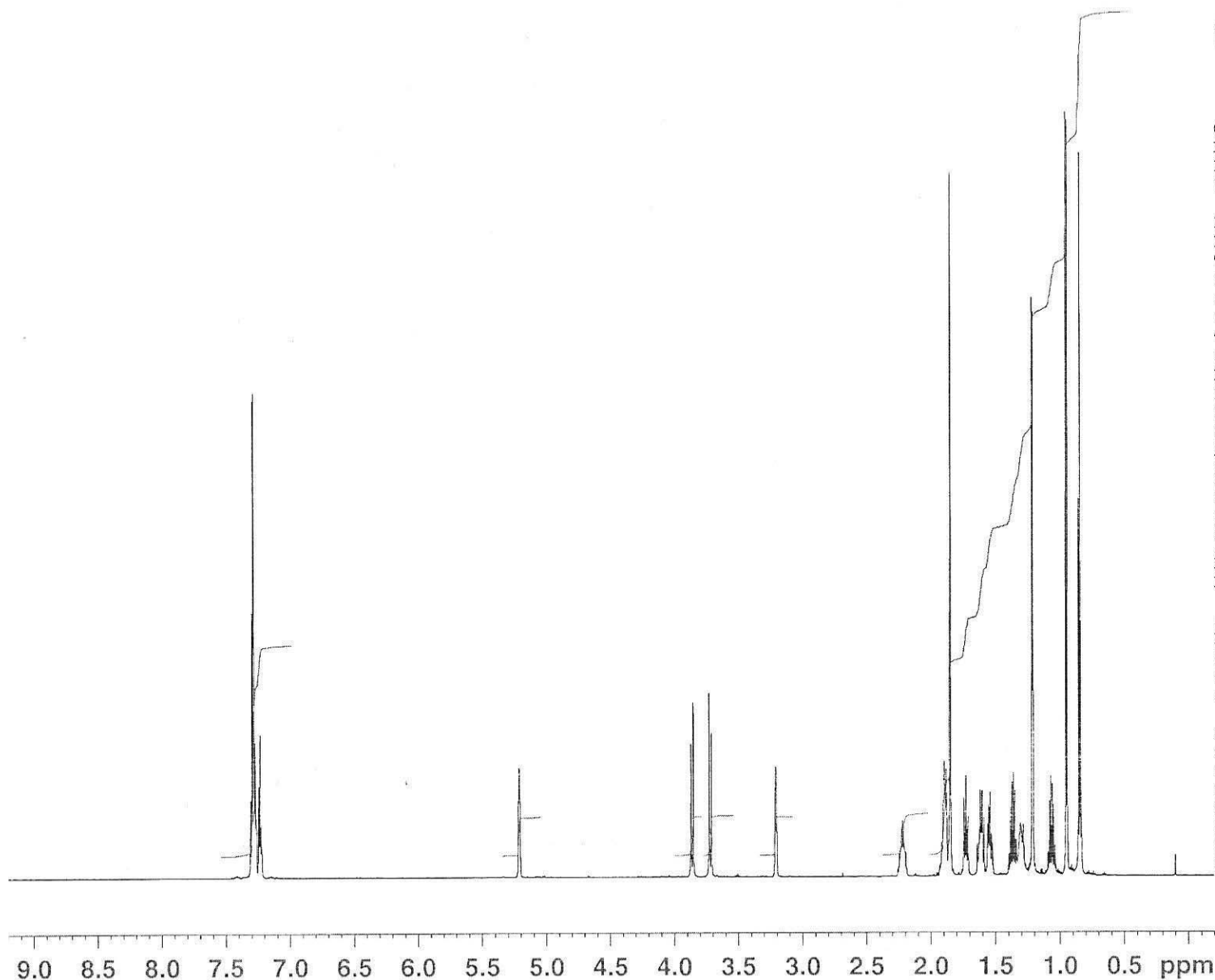


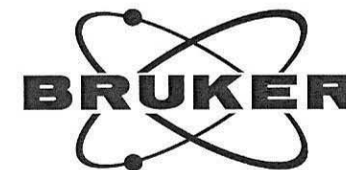
Current Data Parameters
NAME bourjal3
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100113
Time 9.35
INSTRUM spect
PROBHD 5 mm TBI 1H/13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 12376.237 Hz
FIDRES 0.188846 Hz
AQ 2.6477449 sec
RG 114
DW 40.400 usec
DE 6.00 usec
TE 296.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 9.40 usec
PL1 -1.00 dB
SFO1 600.1337060 MHz

F2 - Processing parameters
SI 32768
SF 600.1300000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





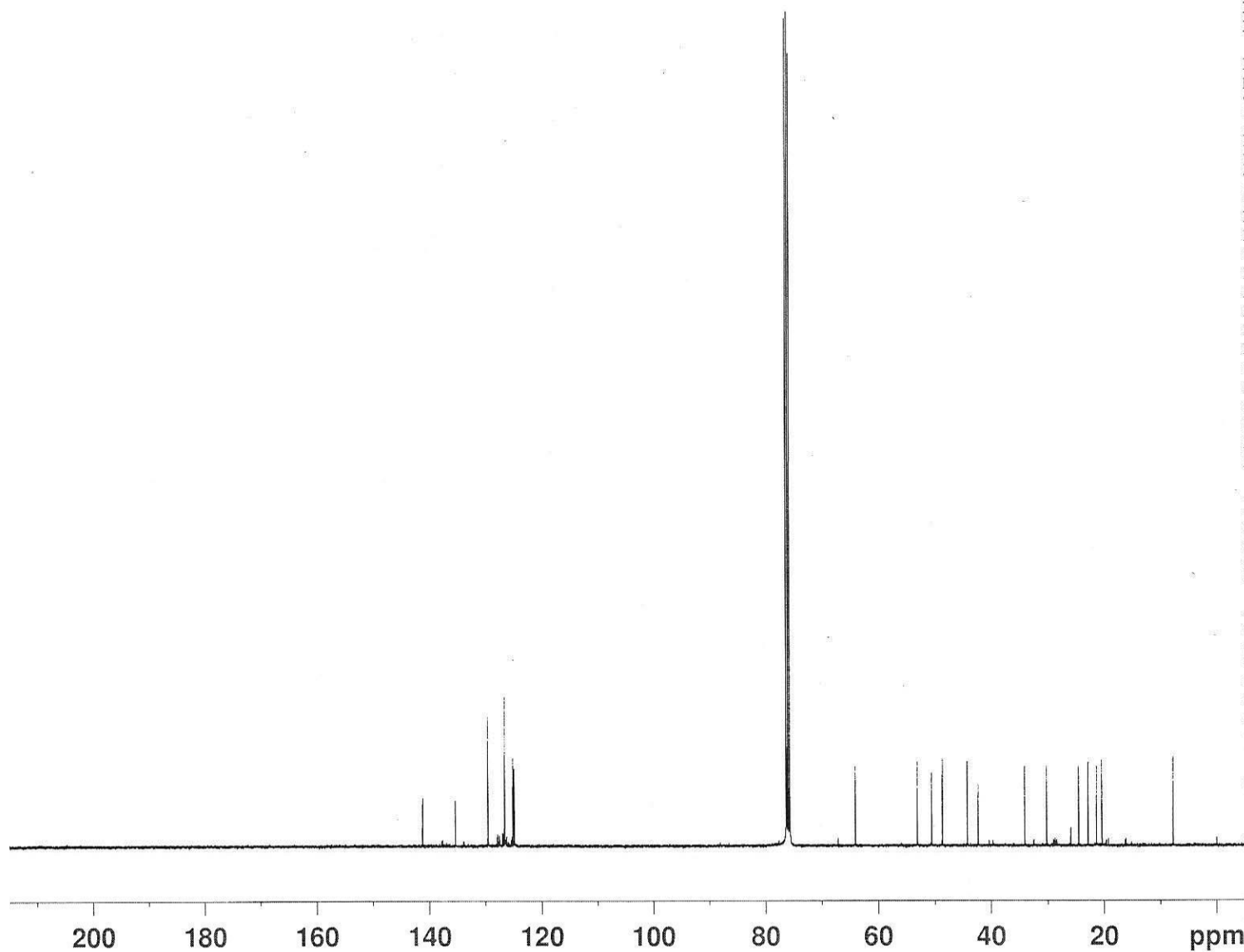
Current Data Parameters
NAME Nov06-2009
EXPNO 23
PROCNO 1

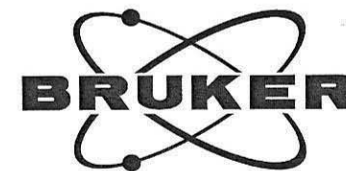
F2 - Acquisition Parameters
Date_ 20091107
Time 9.12
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 10240
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 11585.2
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
PL13 9.30 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128732 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





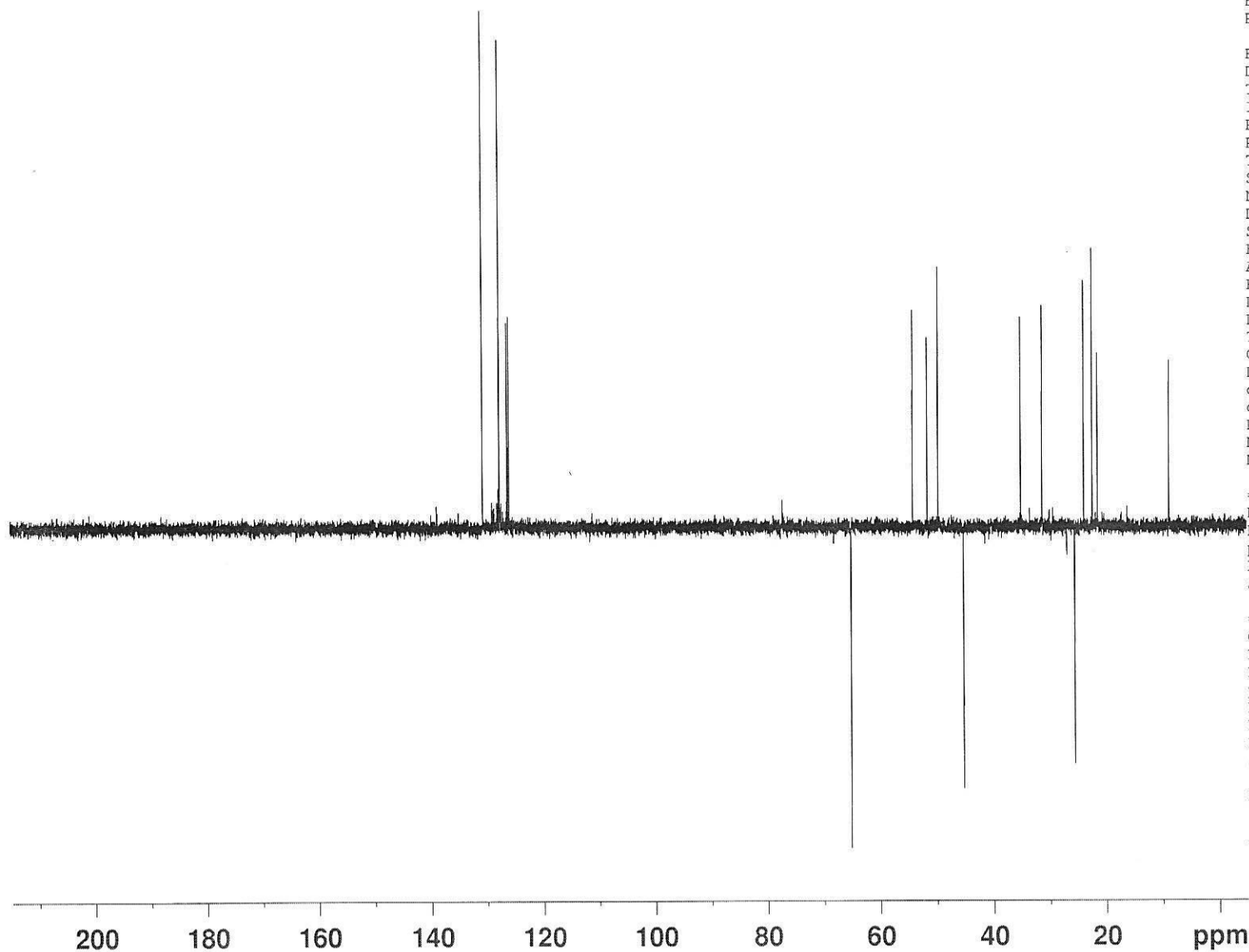
Current Data Parameters
NAME Nov06-2009
EXPNO 22
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091106
Time 23.25
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 1024
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 29193
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001273 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
p2 20.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 19.00 usec
p4 38.00 usec
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
NAME bourja13
EXPNO 4
PROCNO 1

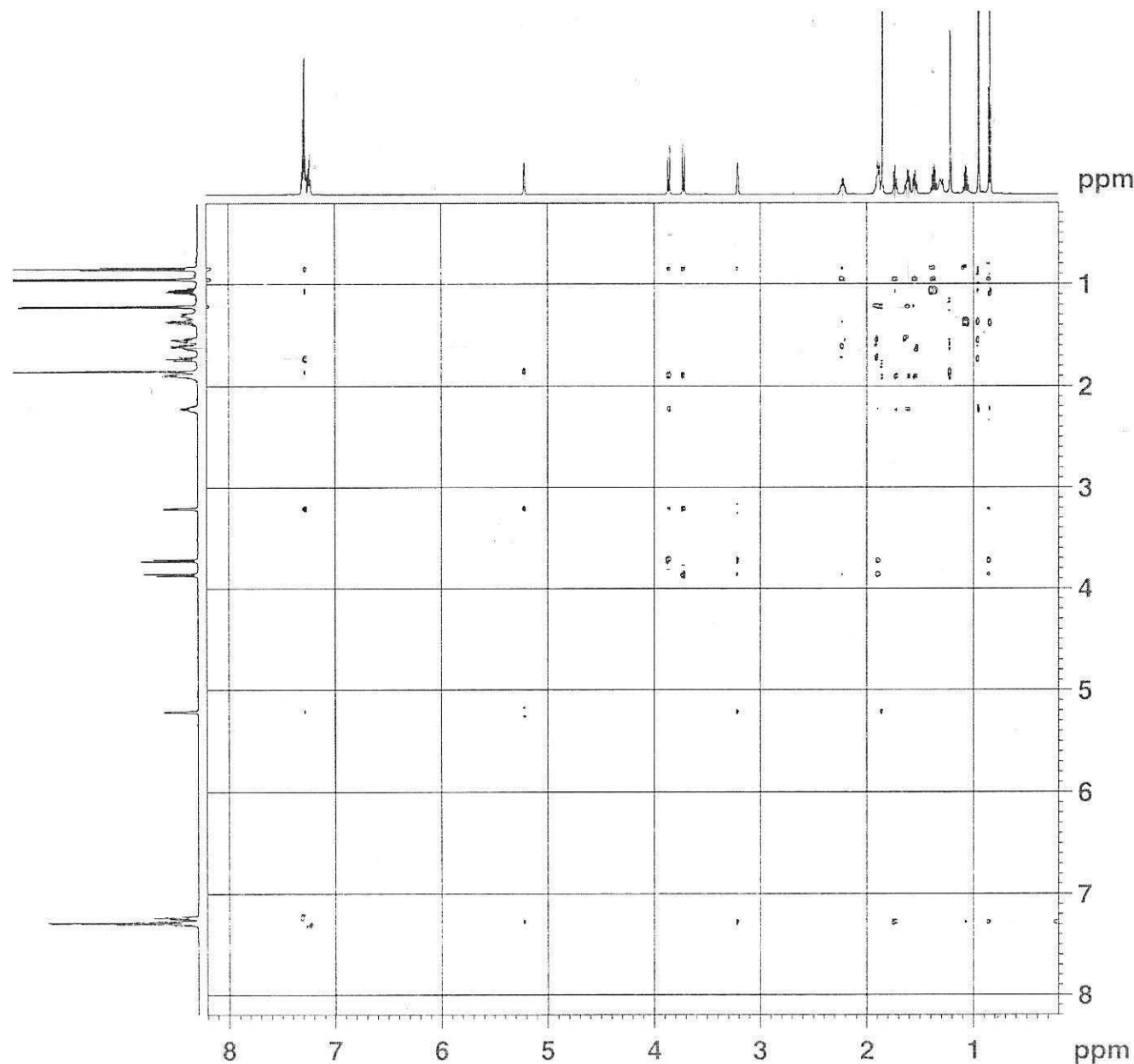
F2 - Acquisition Parameters
Date_ 20100113
Time 23.21
INSTRUM spect
PROBHD 5 mm TBI 1H/13
PULPROG noesyph
TD 2048
SOLVENT CDC13
NS 24
DS 4
SWH 4807.692 Hz
FIDRES 2.347506 Hz
AQ 0.2131460 sec
RG 32
DW 104.000 usec
DE 6.00 usec
TE 296.0 K
d0 0.00008925 sec
D1 2.00000000 sec
D8 0.51999998 sec
INO 0.00020829 sec
MCREST 0.00000000 sec
MCWRK 1.00000000 sec
STICNT 256

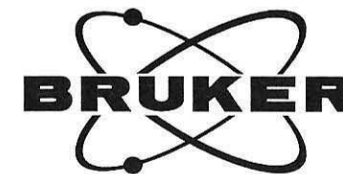
===== CHANNEL f1 =====
NUC1 1H
P1 11.70 usec
PL1 -1.00 dB
SFO1 600.1325205 MHz

F1 - Acquisition parameters.
ND0 1
TD 512
SFO1 600.1325 MHz
FIDRES 9.377063 Hz
SW 8.000 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 1024
SF 600.1300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 600.1300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0



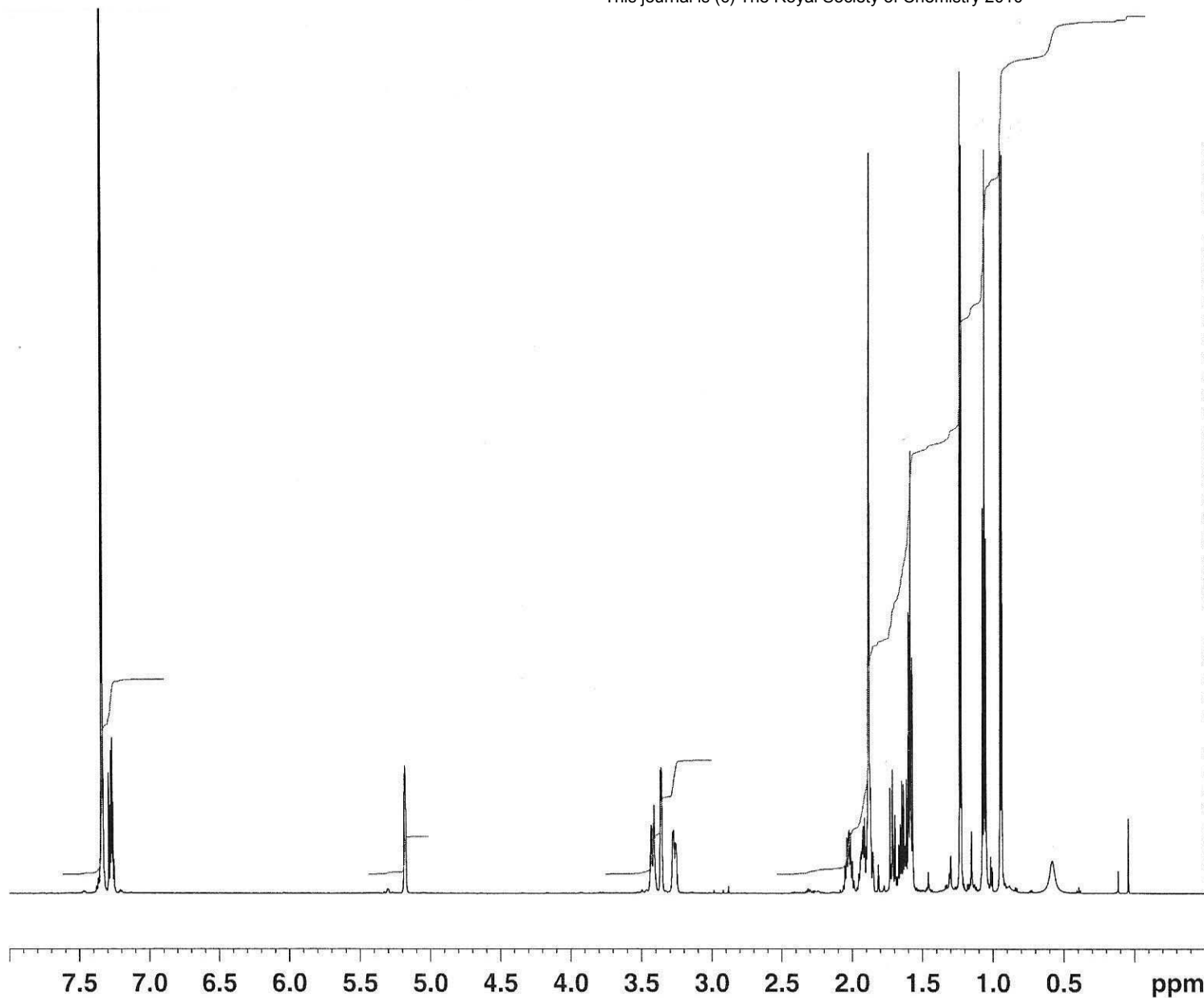


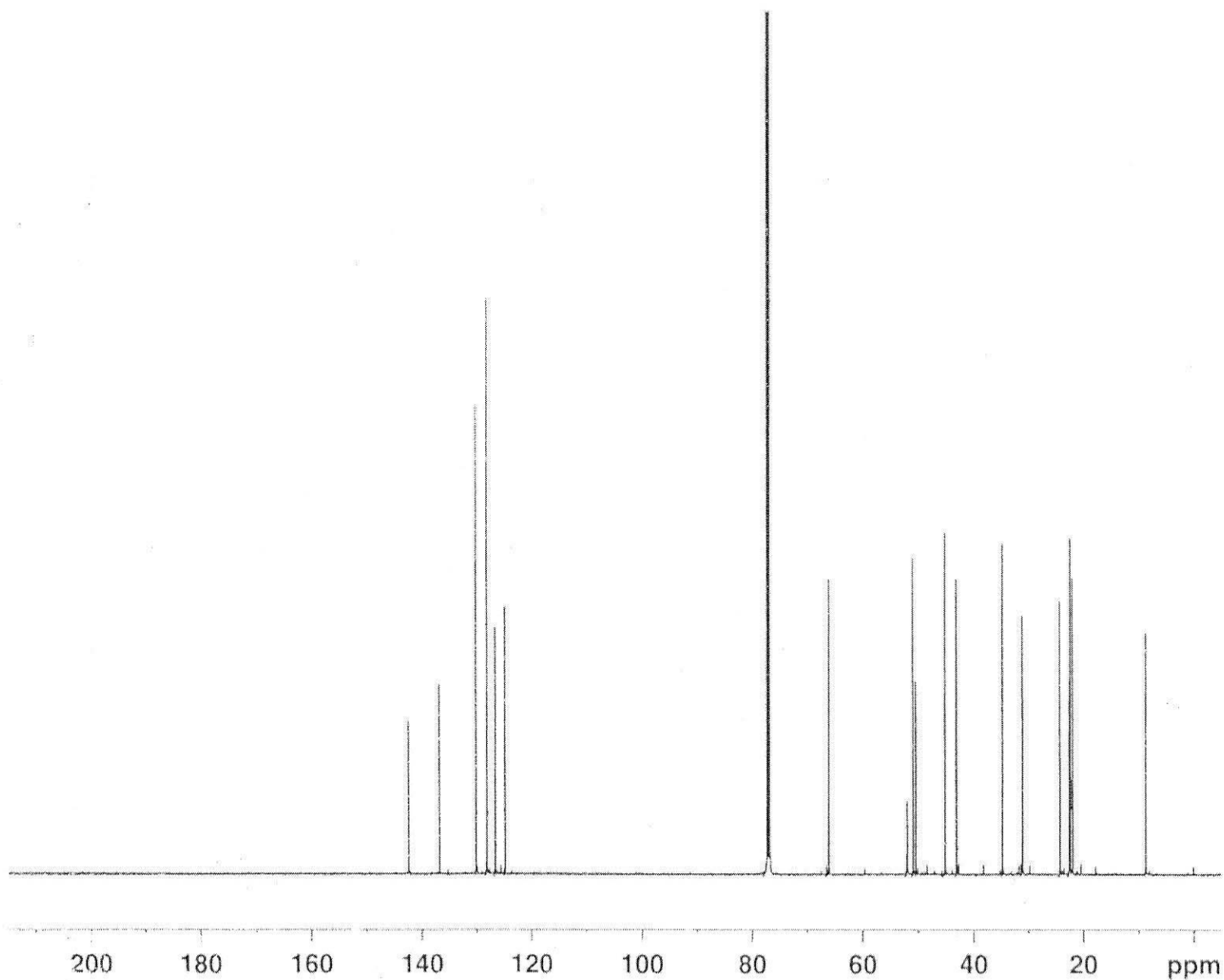
Current Data Parameters
NAME arztmz18
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090318
Time 10.50
INSTRUM spect
PROBHD 5 mm TBI 1H/13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 0
SWH 12376.237 Hz
FIDRES 0.188846 Hz
AQ 2.6477044 sec
RG 32
DW 40.400 usec
DE 6.00 usec
TE 296.0 K
D1 2.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 9.40 usec
PL1 -1.00 dB
SFO1 600.1337060 MHz

F2 - Processing parameters
SI 32768
SF 600.1300000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





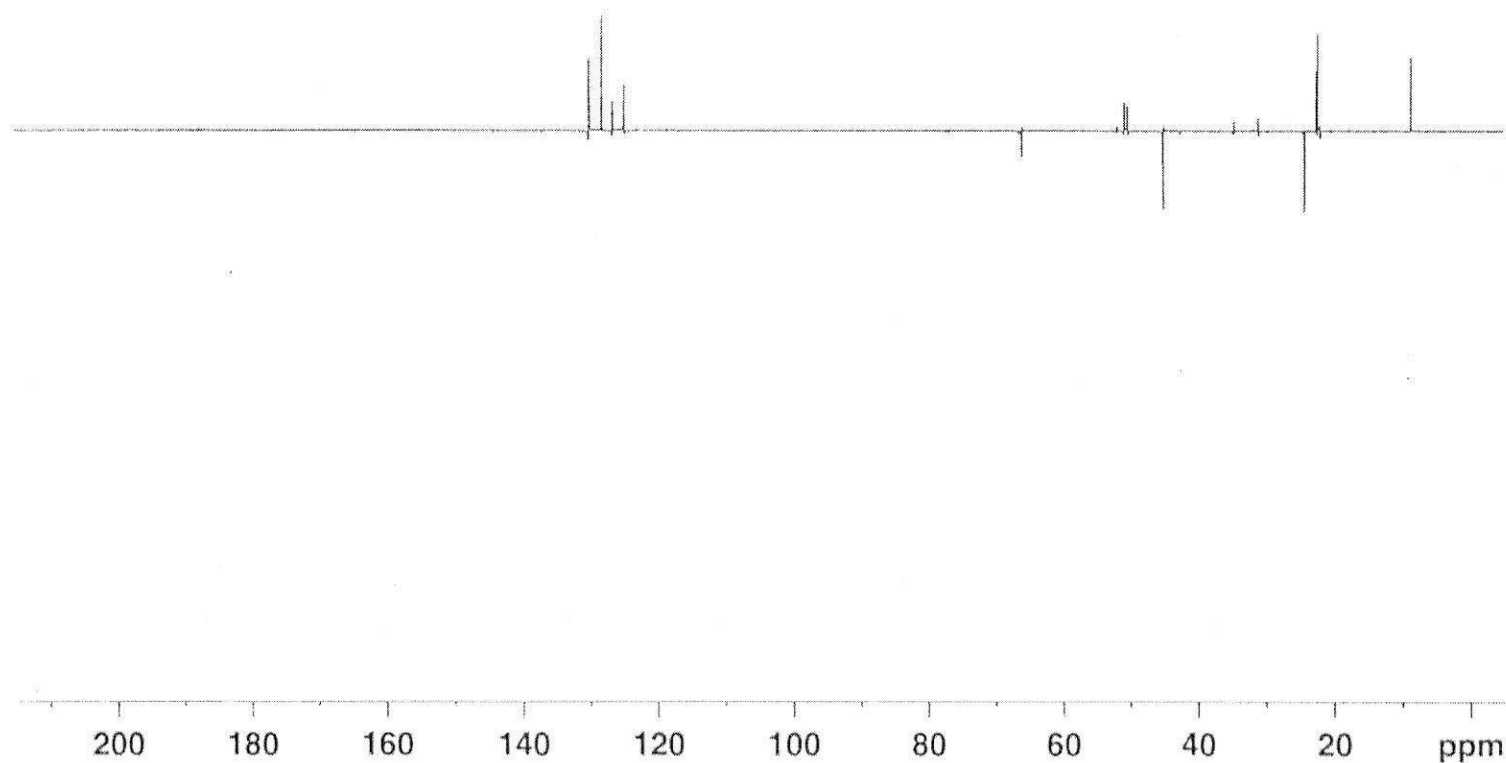
Current Data Parameters
NAME ar2tm217
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090318
Time 3.02
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 10240
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 9195.2
DW 16.500 usec
DE 6.00 usec
TE 299.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWKK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 9.50 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
PL13 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



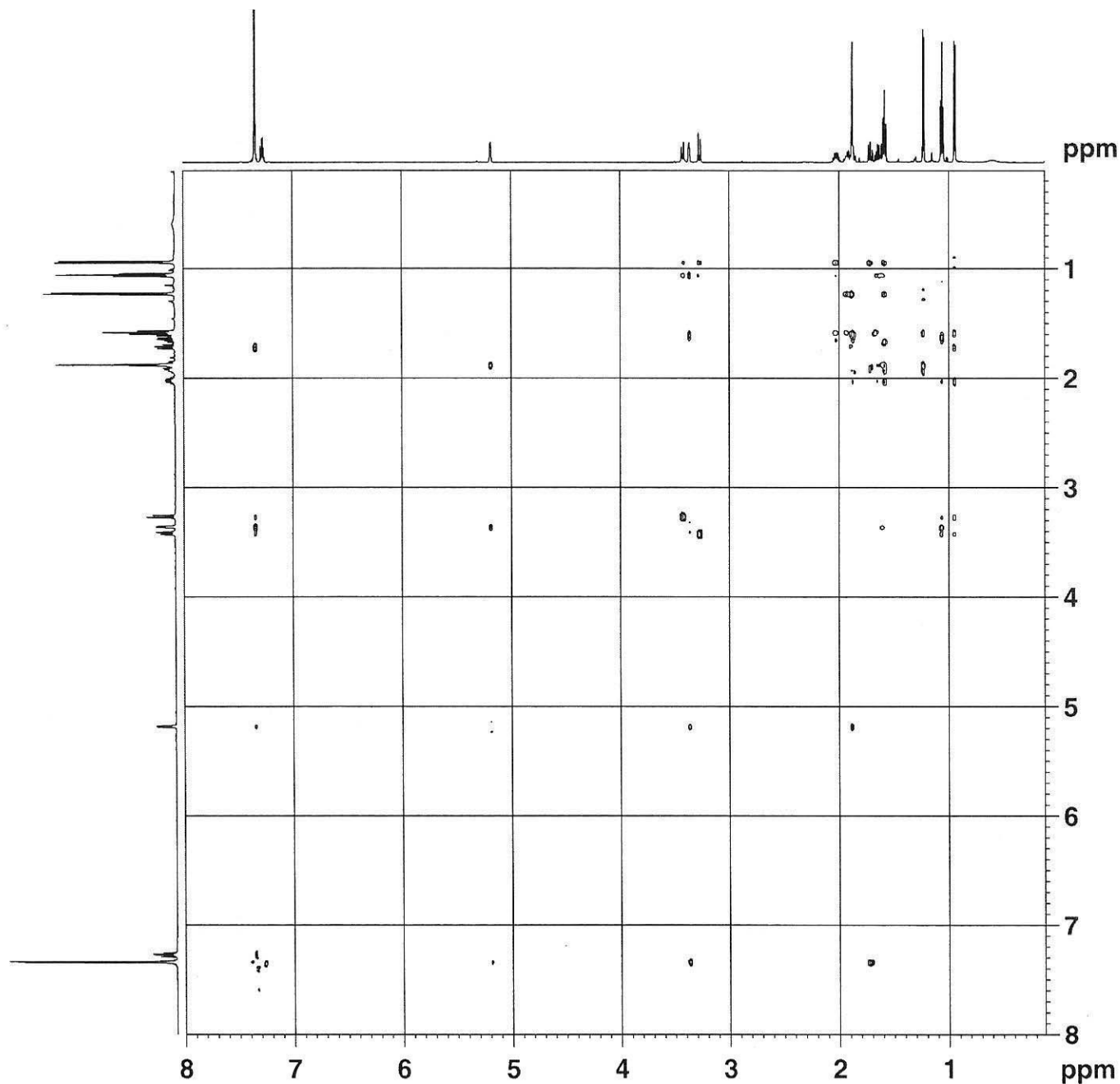
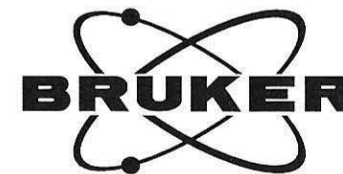
Current Data Parameters
NAME ar2tmz17
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090317
Time 18.04
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG depr135
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 11585.2
DW 16.609 usec
DE 6.00 usec
TE 298.9 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001222 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 9.60 usec
p2 19.20 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 14.90 usec
p4 29.80 usec
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
NAME arztmz23
EXPNO 2
PROCNO 1

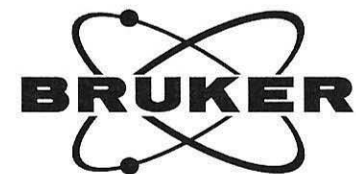
F2 - Acquisition Parameters
Date_ 20090323
Time 13.57
INSTRUM spect
PROBHD 5 mm TBI 1H/13
PULPROG noesyph
TD 2048
SOLVENT CDCl3
NS 24
DS 4
SWH 5387.931 Hz
FIDRES 2.630826 Hz
AQ 0.1901044 sec
RG 28.5
DW 92.800 usec
DE 6.00 usec
TE 296.0 K
d0 0.00007882 sec
D1 2.00000000 sec
D8 1.20000005 sec
INO 0.00018515 sec
MCREST 0.00000000 sec
MCWRK 1.00000000 sec
STICNT 256

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 -1.00 dB
SFO1 600.1327625 MHz

F1 - Acquisition parameters
ND0 1
TD 512
SFO1 600.1328 MHz
FIDRES 10.548880 Hz
SW 9.000 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 2048
SF 600.1300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 2048
MC2 States-TPPI
SF 600.1300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

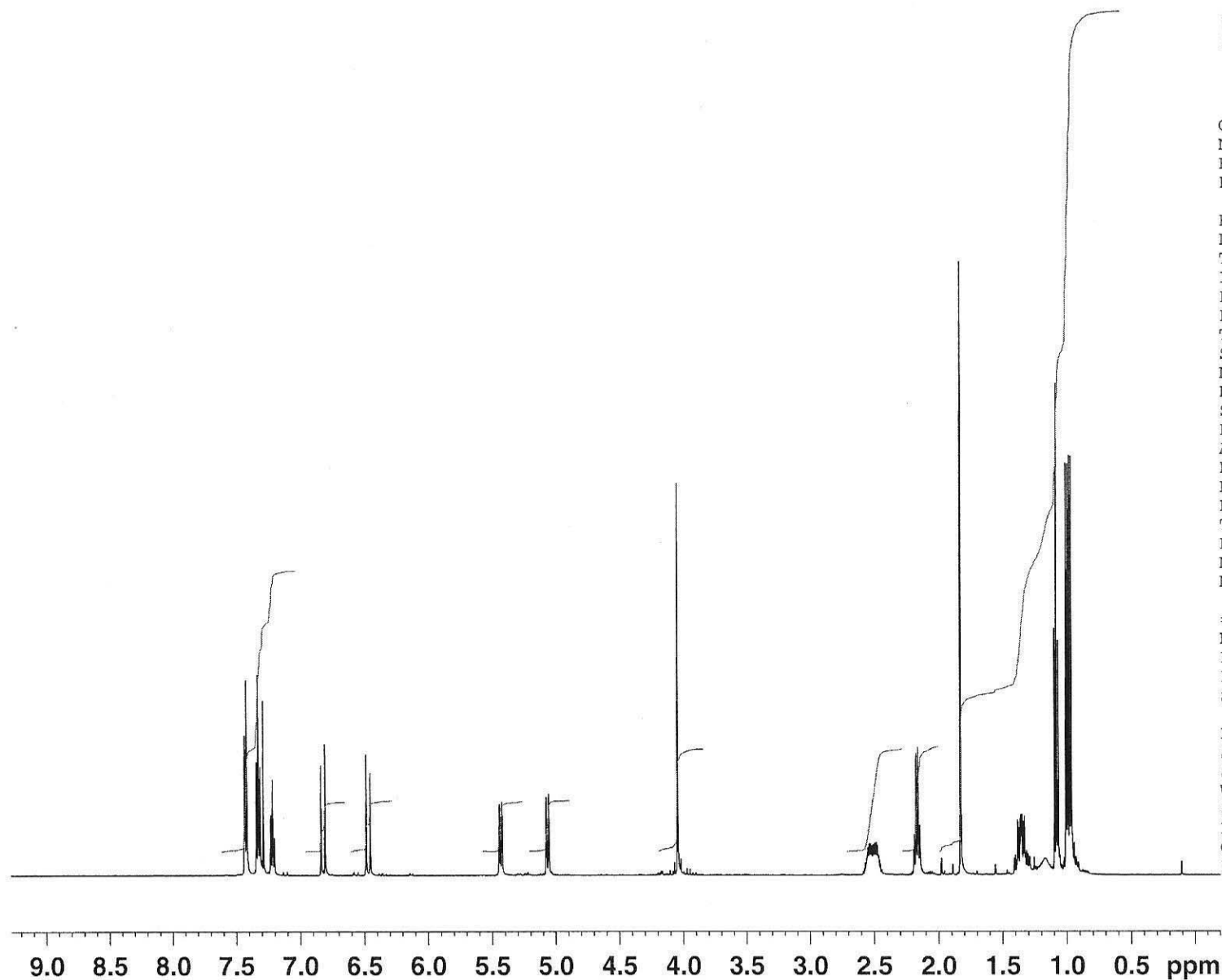


Current Data Parameters
NAME bourdz04
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091204
Time 8.20
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 32
DS 2
SWH 10288.065 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 161.3
DW 48.600 usec
DE 6.00 usec
TE 298.6 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 16.70 usec
PL1 0.00 dB
SFO1 499.9330873 MHz

F2 - Processing parameters
SI 32768
SF 499.9300000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00





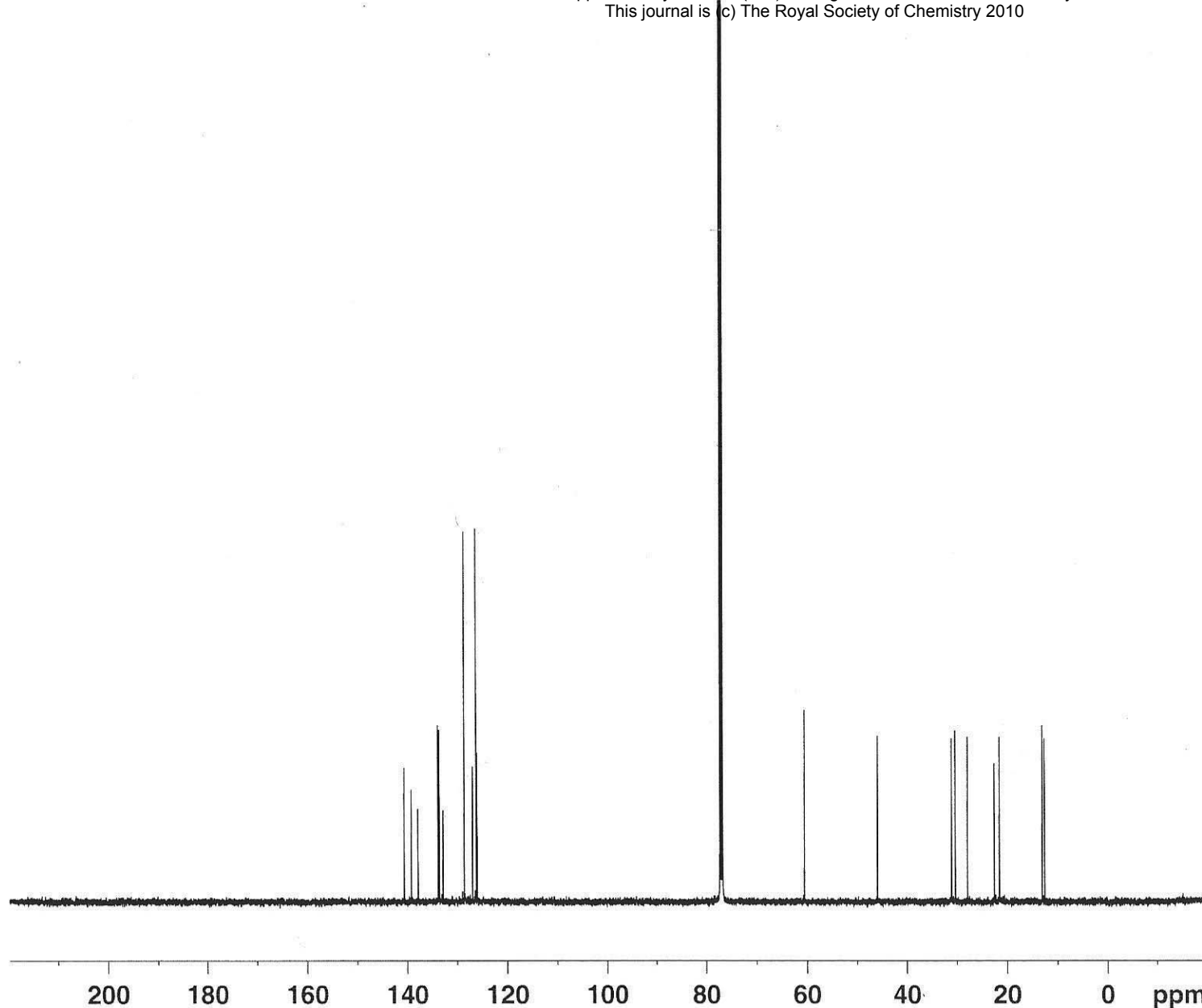
Current Data Parameters
NAME bourdz04
EXPNO 4
PROCNO 1

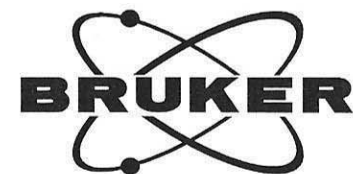
F2 - Acquisition Parameters
Date_ 20091204
Time 11.07
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 1983
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 2896.3
DW 16.600 usec
DE 6.00 usec
TE 299.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 9.60 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
PL13 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





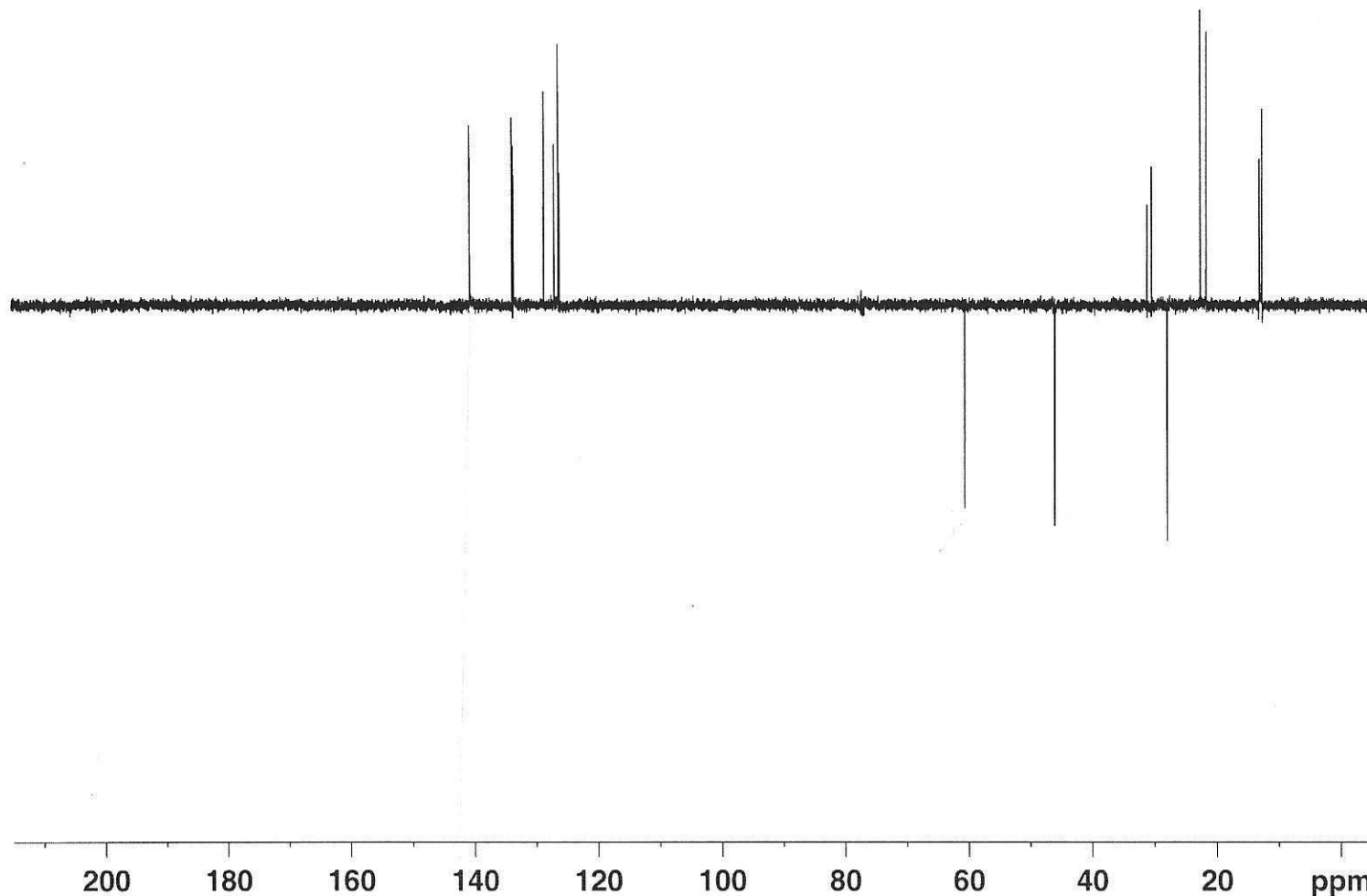
Current Data Parameters
NAME bourdz04
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091204
Time 9.23
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 10321.3
DW 16.600 usec
DE 6.00 usec
TE 298.8 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001222 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 9.60 usec
p2 19.20 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 14.90 usec
p4 29.80 usec
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
NAME bourdz04
EXPNO 7
PROCNO 1

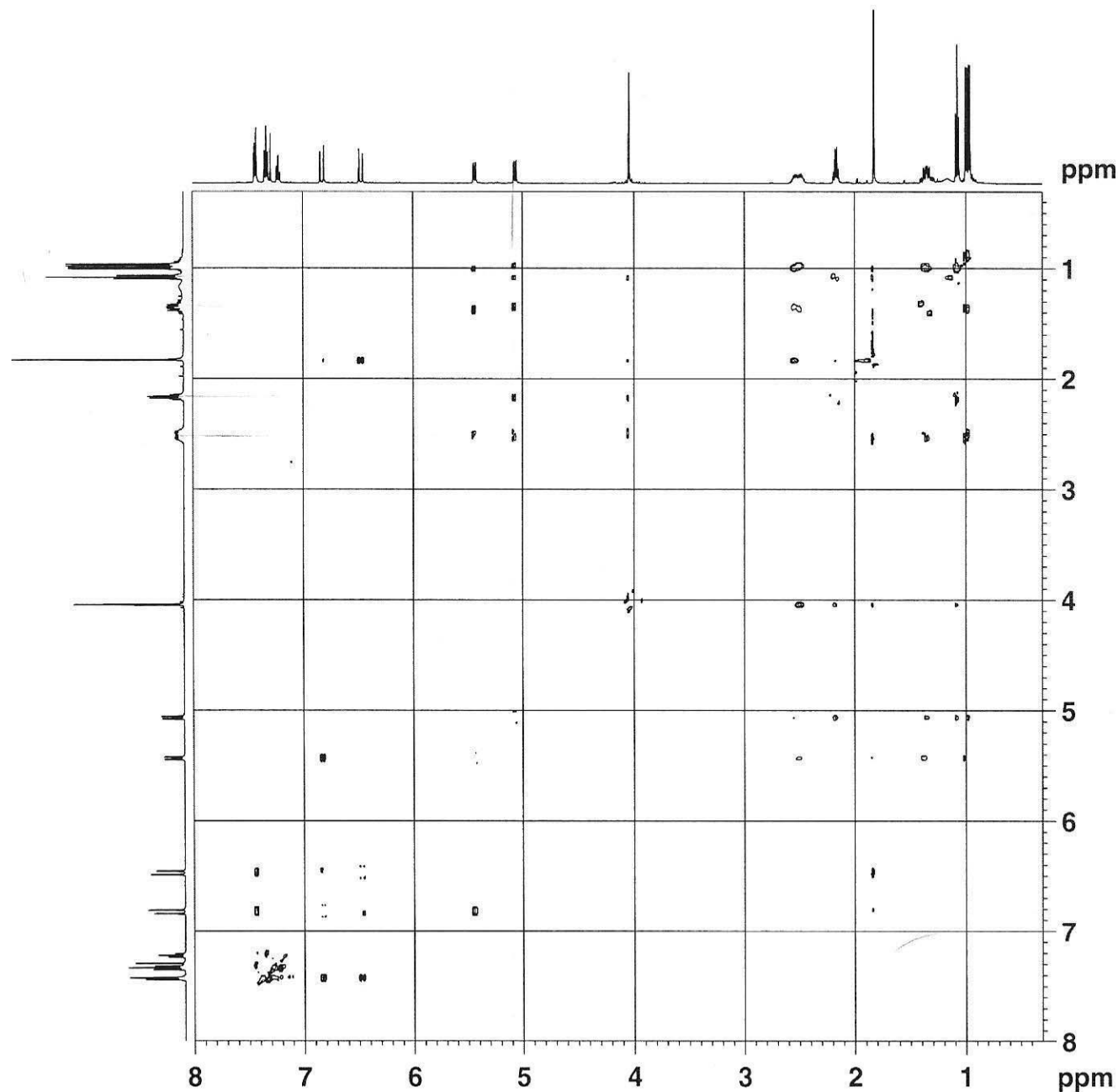
F2 - Acquisition Parameters
Date_ 20091204
Time 21.55
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG noesyph
TD 2048
SOLVENT CDCl3
NS 16
DS 4
SWH 4006.410 Hz
FIDRES 1.956255 Hz
AQ 0.2556404 sec
RG 64
DW 124.800 usec
DE 6.00 usec
TE 298.3 K
d0 0.00010528 sec
D1 2.00000000 sec
D8 1.08000004 sec
INO 0.00025004 sec
MCREST 0.00000000 sec
MCWRK 1.00000000 sec
ST1CNT 256

===== CHANNEL f1 =====
NUC1 1H
P1 15.50 usec
PL1 0.00 dB
SFO1 499.9321497 MHz

F1 - Acquisition parameters
ND0 1
TD 512
SFO1 499.9321 MHz
FIDRES 7.811328 Hz
SW 8.000 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 1024
SF 499.9300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 499.9300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0



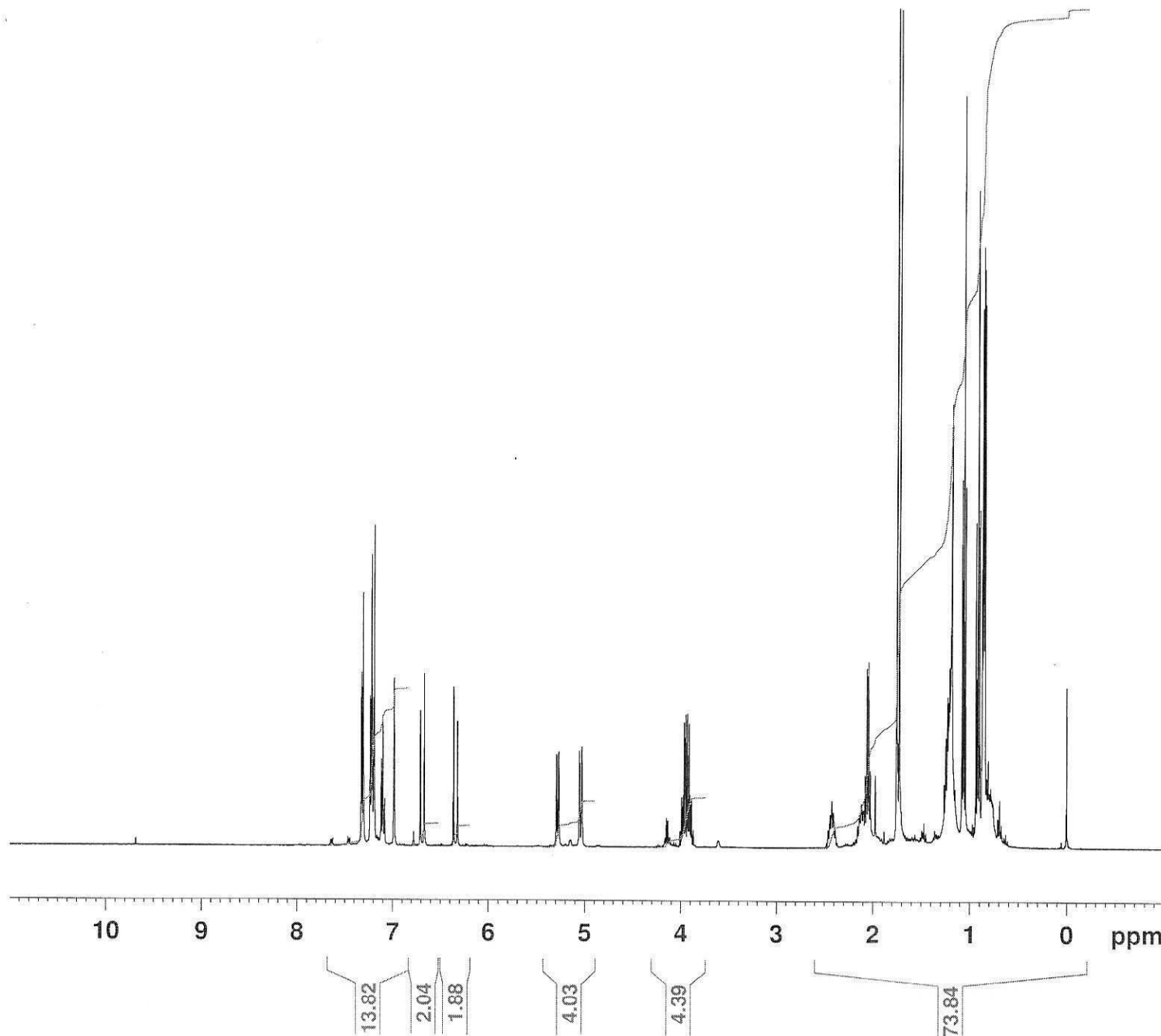


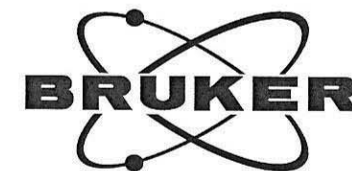
Current Data Parameters
NAME Nov24-2009
EXPNO 70
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091124
Time 20.10
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 161.3
DW 60.400 usec
DE 6.00 usec
TE 0.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 19.00 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300385 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





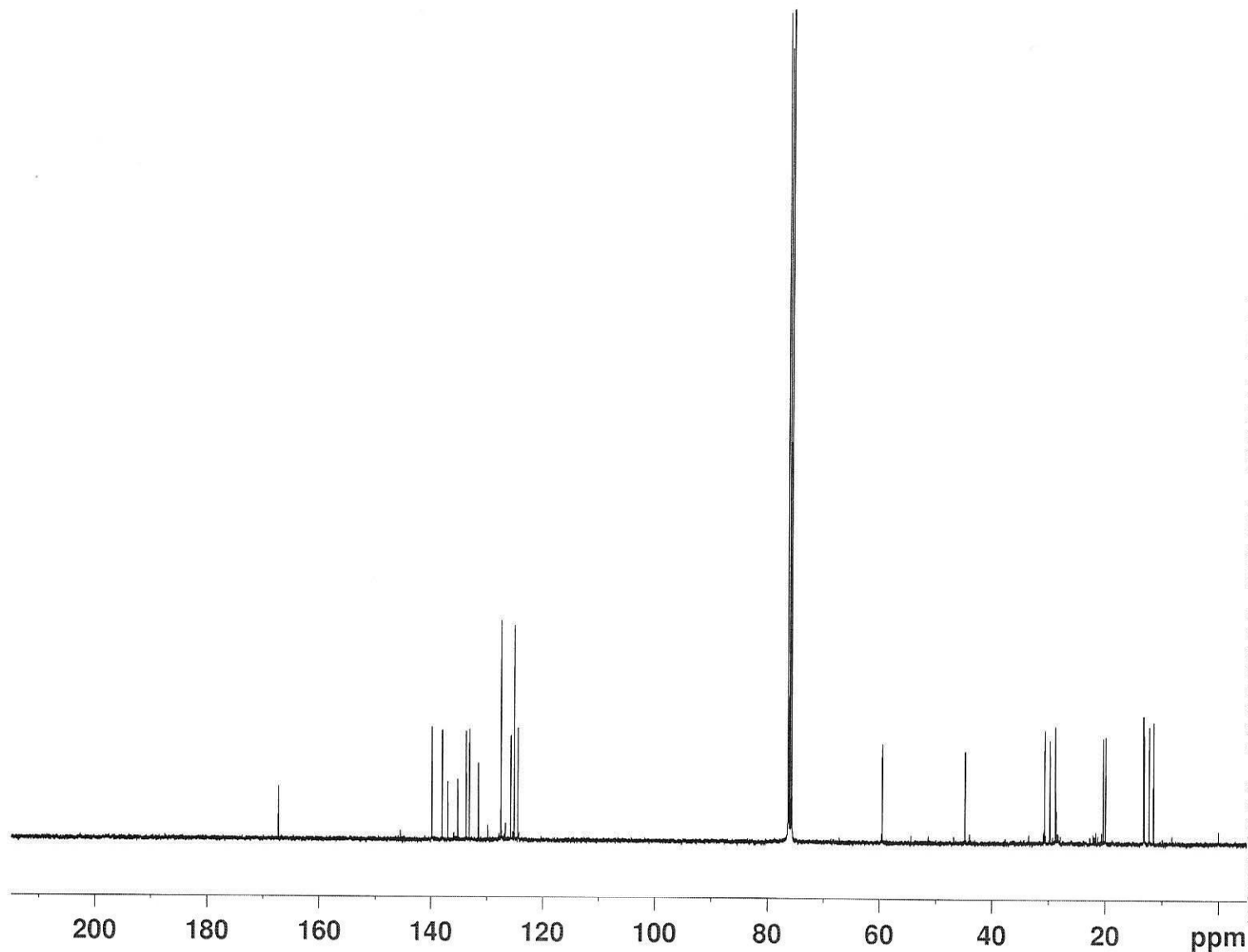
Current Data Parameters
NAME Nov24-2009
EXPNO 73
PROCNO 1

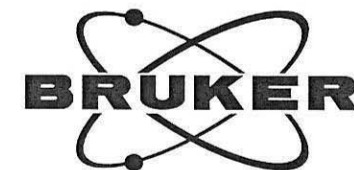
F2 - Acquisition Parameters
Date_ 20091125
Time 0.07
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3072
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 9195.2
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
PL13 9.30 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128731 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





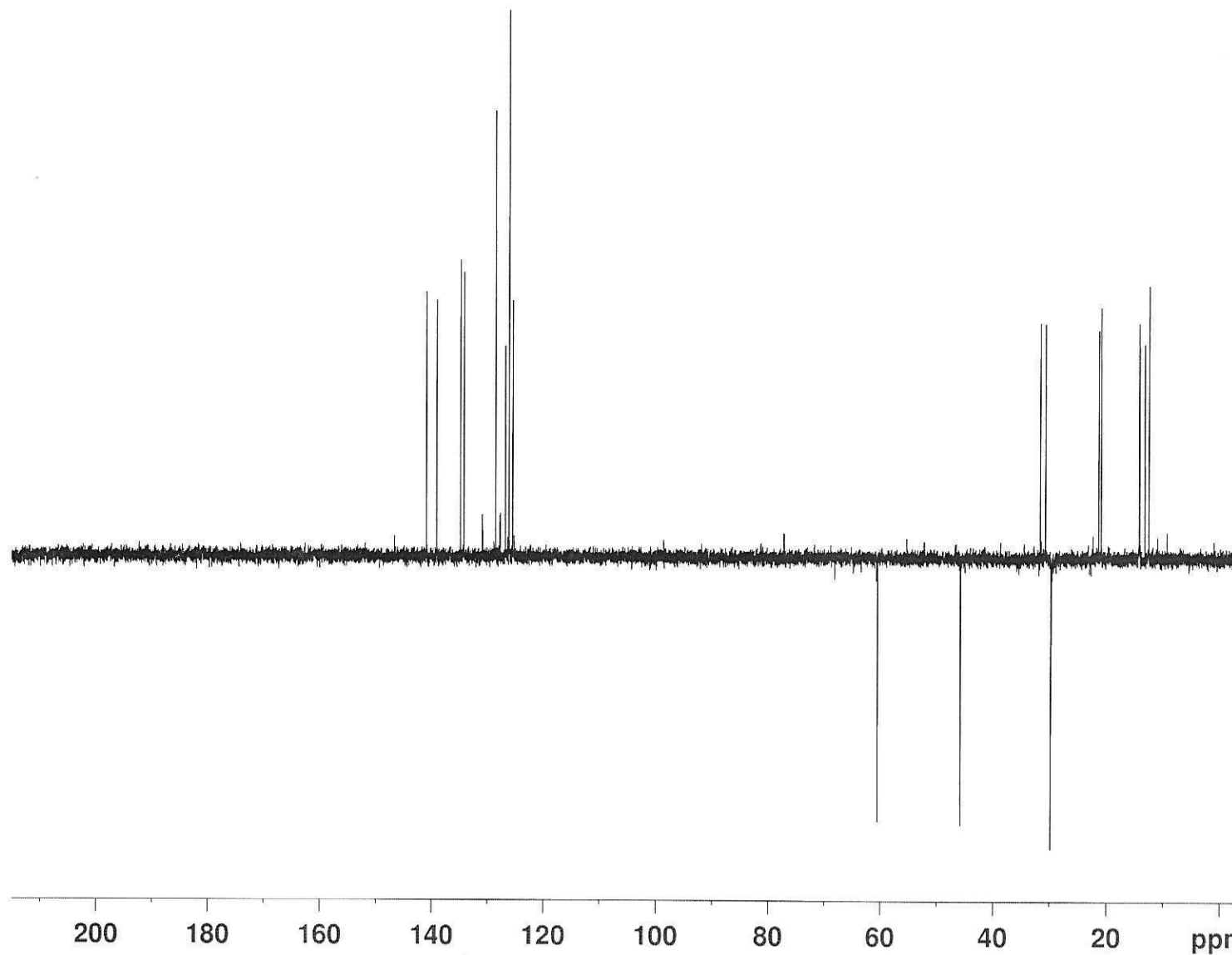
Current Data Parameters
NAME Nov24-2009
EXPNO 72
PROCNO 1

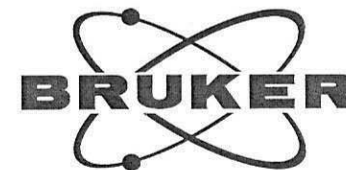
F2 - Acquisition Parameters
Date_ 20091124
Time 21.10
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 512
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 29193
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001273 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
P2 20.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 19.00 usec
p4 38.00 usec
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



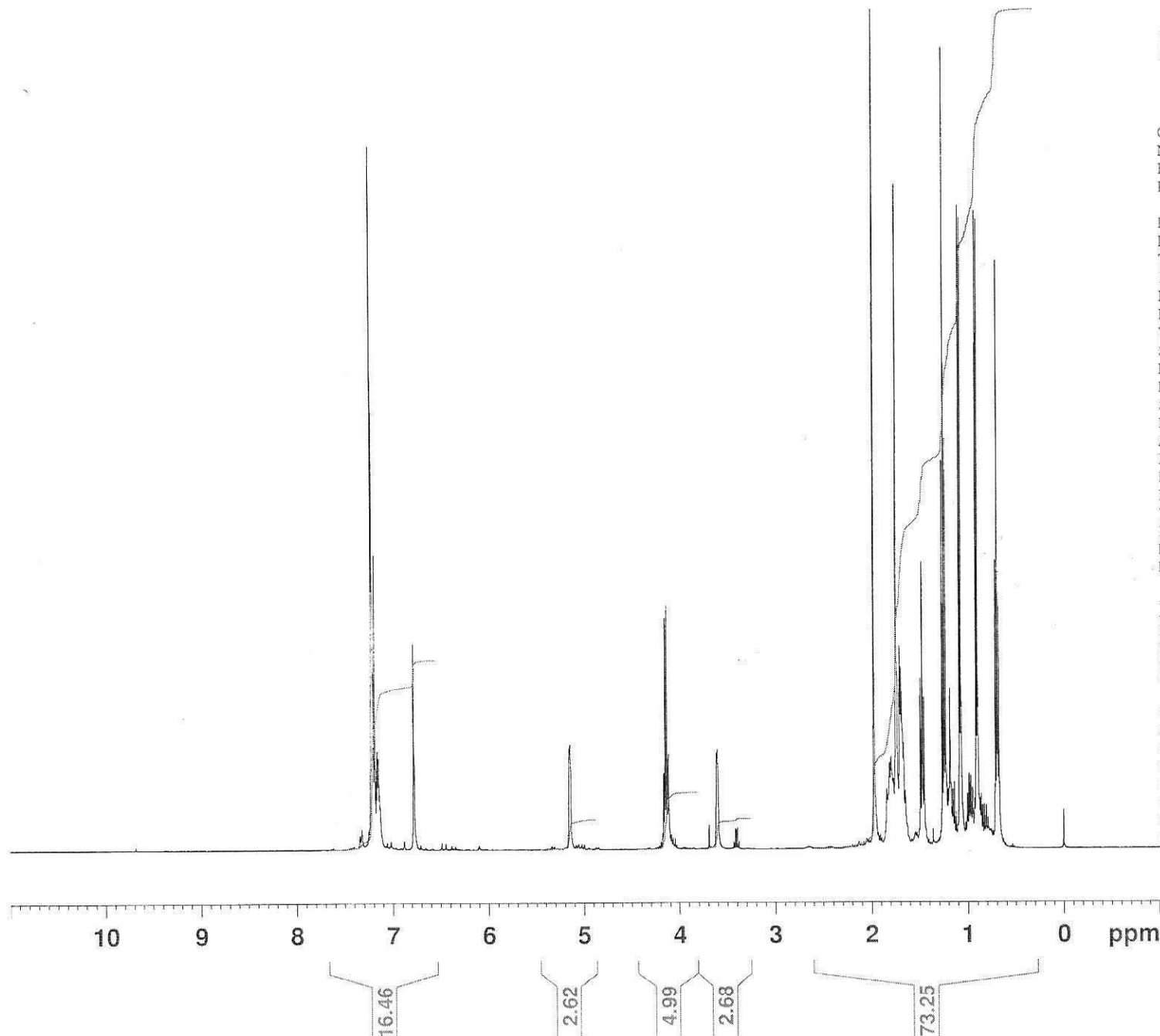


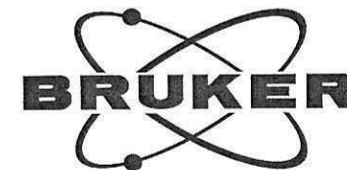
Current Data Parameters
NAME Jan05-2010
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100105
Time 16.41
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 71.8
DW 60.400 usec
DE 6.00 usec
TE 0.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 19.00 usec
PL1 -2.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300404 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





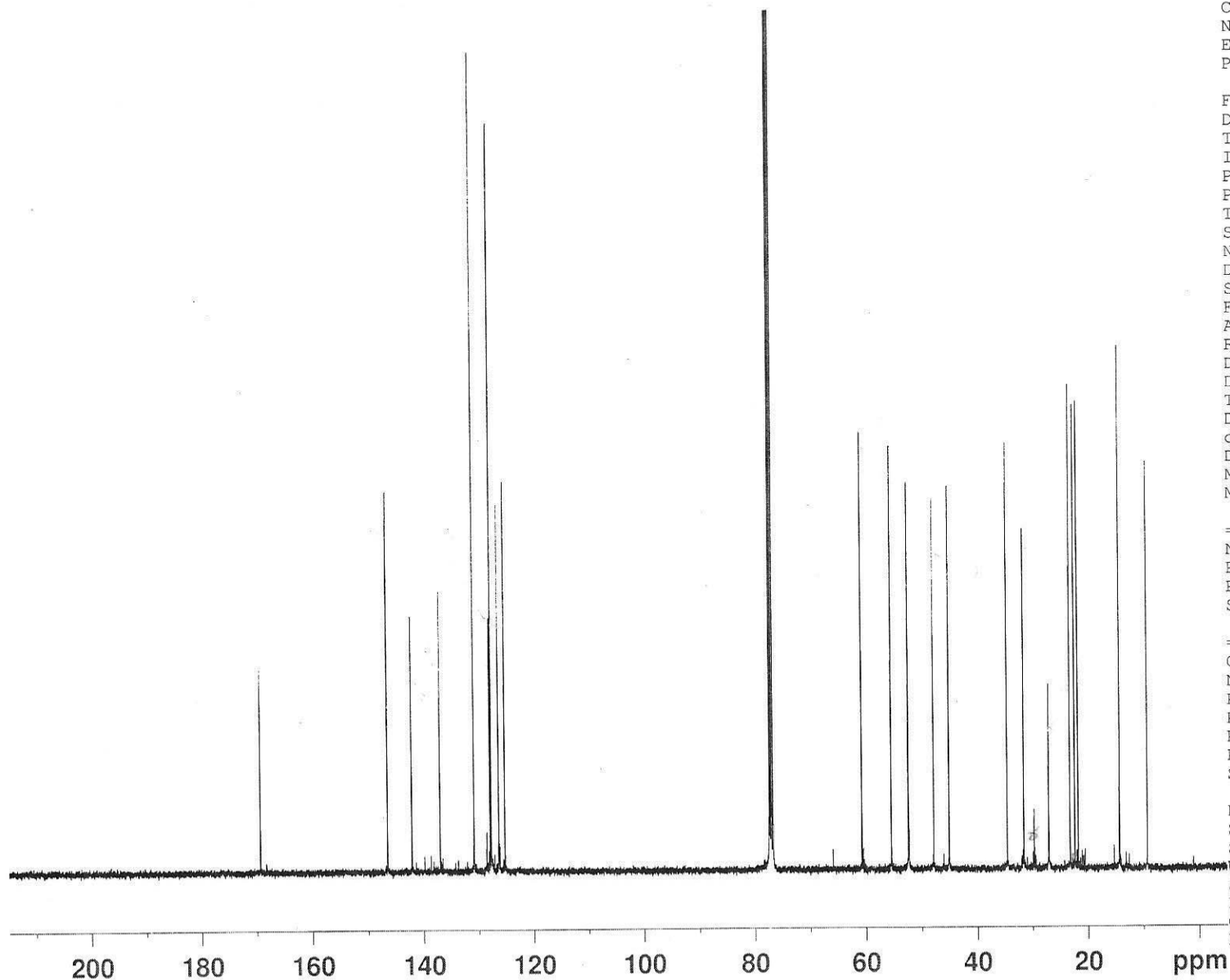
Current Data Parameters
NAME Jan05-2010
EXPNO 13
PROCNO 1

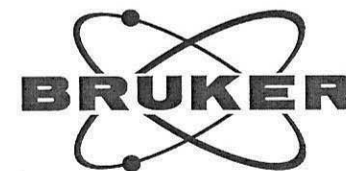
F2 - Acquisition Parameters
Date_ 20100105
Time 22.19
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4096
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 9195.2
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
PL13 9.30 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





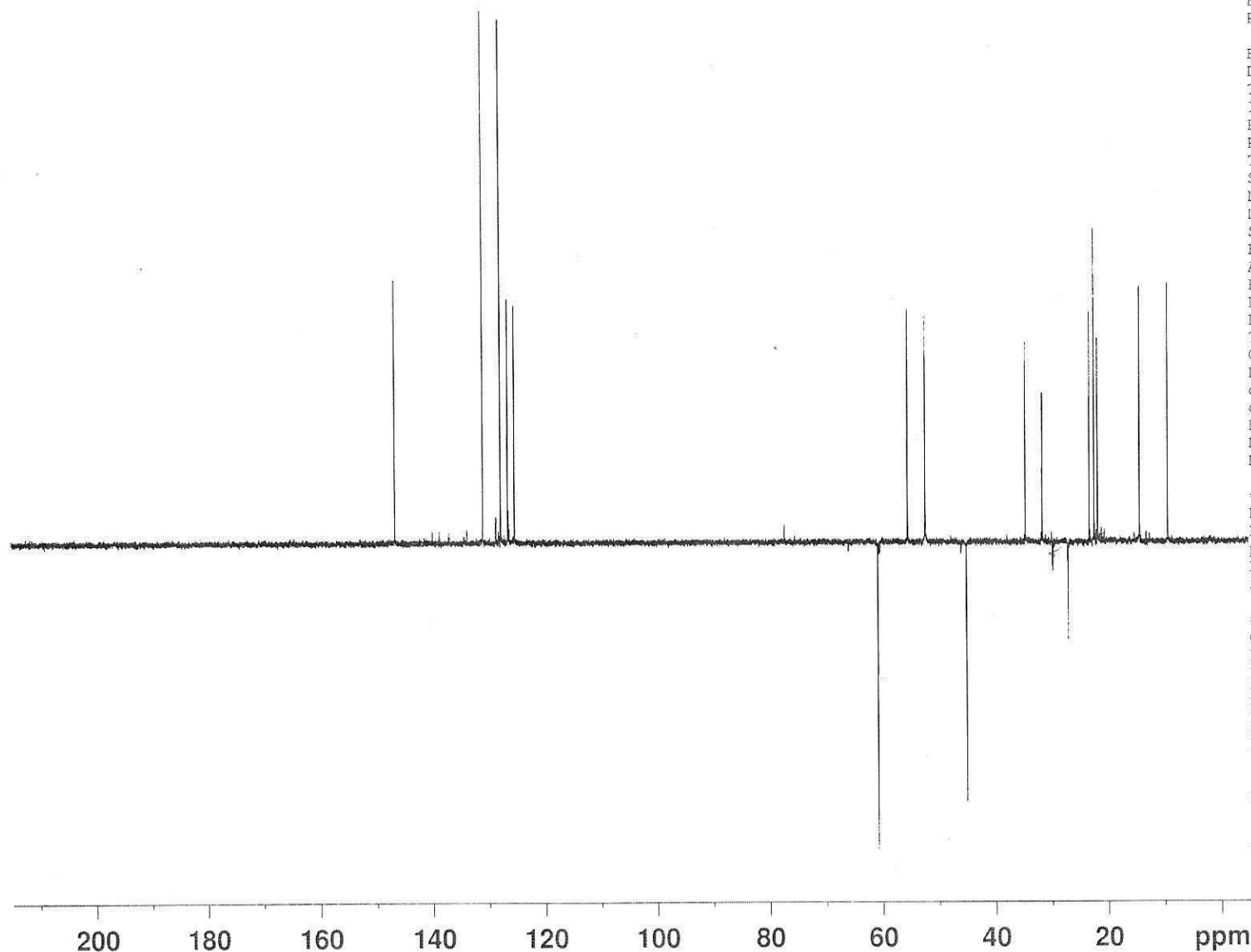
Current Data Parameters
NAME Jan05-2010
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100105
Time 18.24
INSTRUM spect
PROBHD 5 mm DUL 1H-13
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 768
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 29193
DW 20.850 usec
DE 6.00 usec
TE 0.0 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001273 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
p2 20.00 usec
PL1 0.00 dB
SFO1 100.6228298 MHz

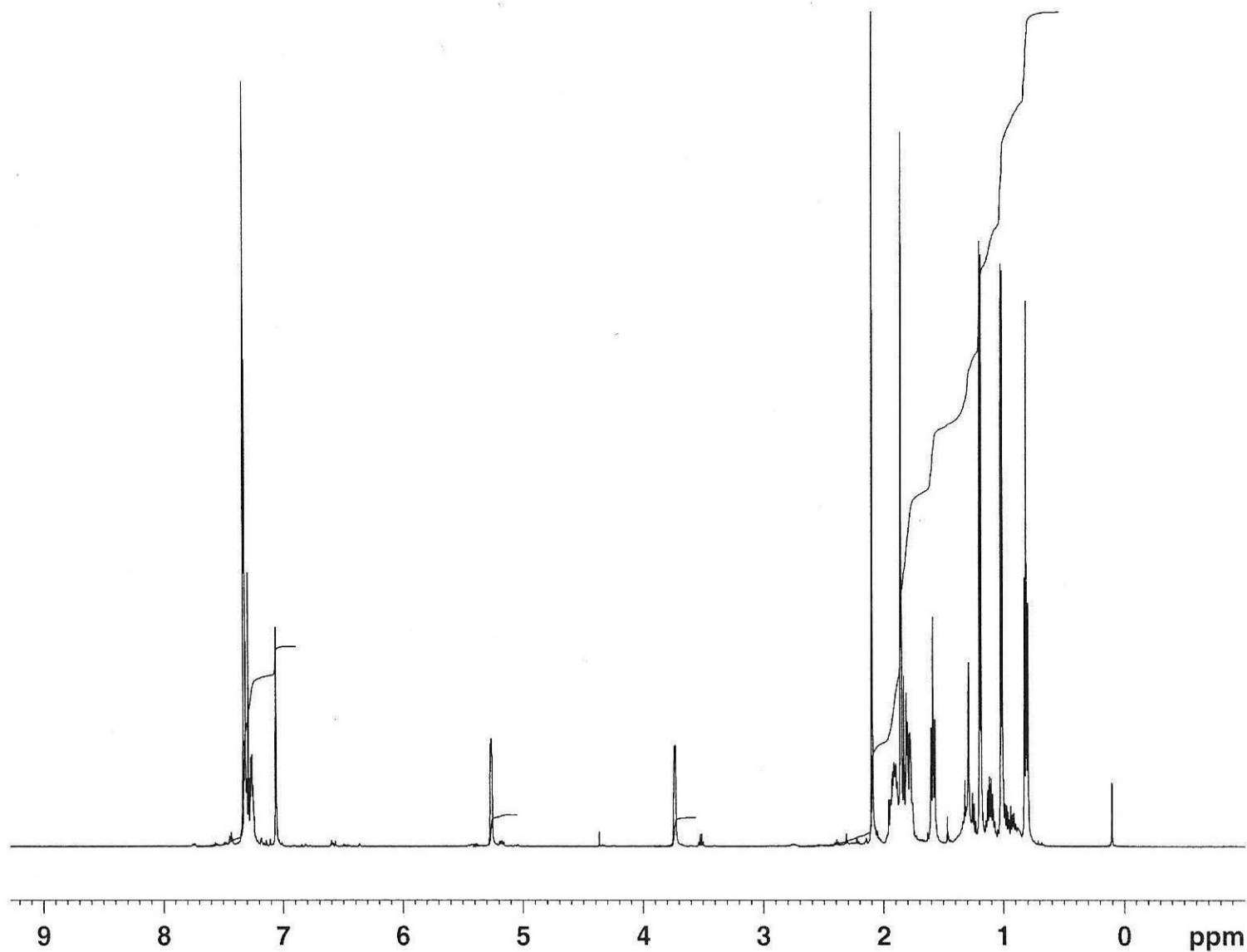
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 19.00 usec
p4 38.00 usec
PCPD2 70.00 usec
PL2 -2.00 dB
PL12 9.33 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Compound 1
synthetic Plakotenin

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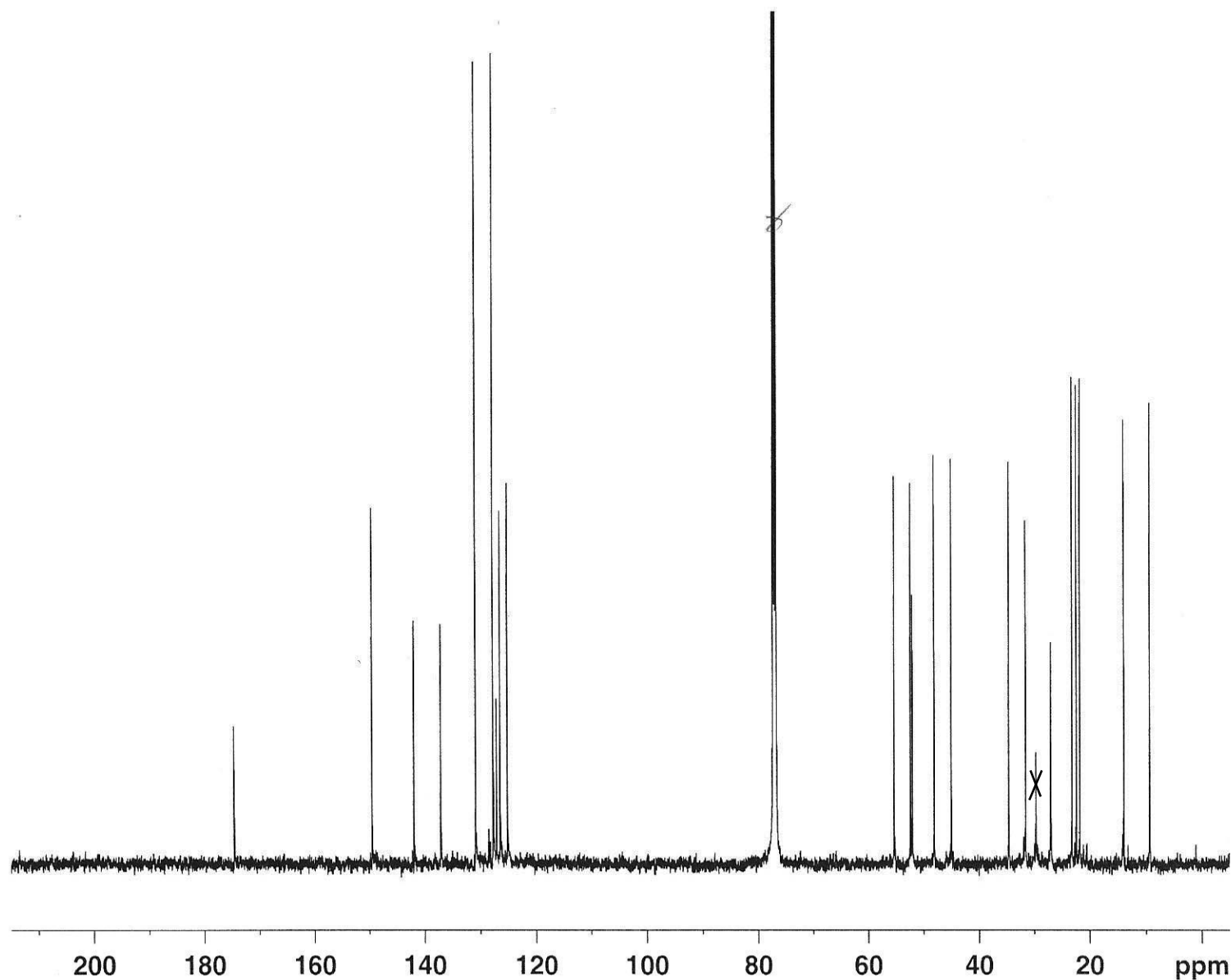


Current Data Parameters
NAME bourno30
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091130
Time 14.21
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 10288.065 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 sec
RG 161.3
DW 48.600 usec
DE 6.00 usec
TE 298.3 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 16.70 usec
PL1 0.00 dB
SFO1 499.9330873 MHz

F2 - Processing parameters
SI 32768
SF 499.9300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.40



Current Data Parameters
NAME bourno30
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091130
Time 19.37
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 5120
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 4096
DW 16.600 usec
DE 6.00 usec
TE 299.2 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

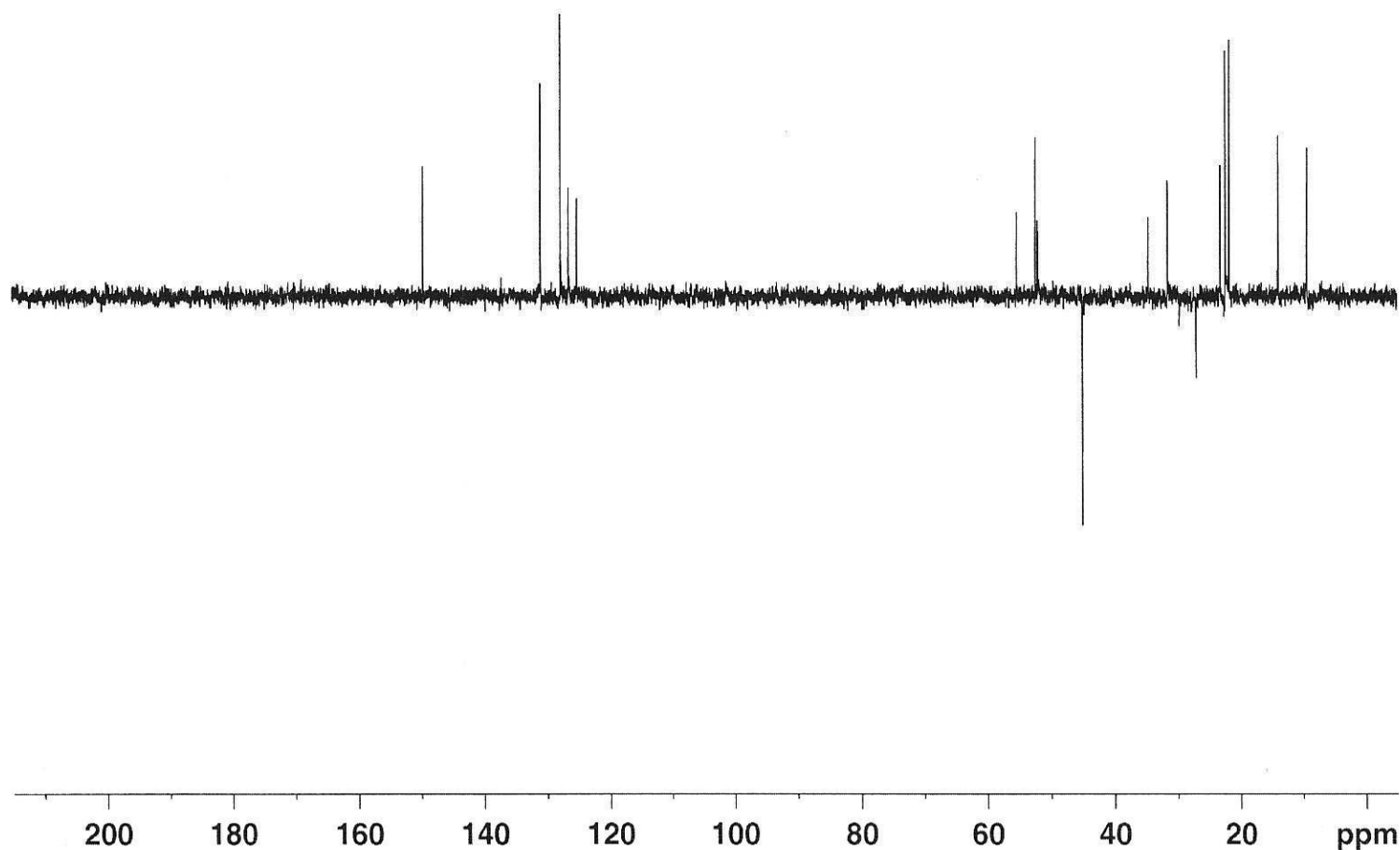
===== CHANNEL f1 =====
NUC1 13C
P1 9.60 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
PL13 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

Compound 1
synthetic Plakotenin

Supplementary Material (ESI) for Organic & Biomolecular Chemistry
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Current Data Parameters
NAME bourno30
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091130
Time 15.08
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 329
DS 4
SWH 30120.482 Hz
FIDRES 0.459602 Hz
AQ 1.0879476 sec
RG 8192
DW 16.600 usec
DE 6.00 usec
TE 298.7 K
CNST2 145.0000000
D1 2.00000000 sec
d2 0.00344828 sec
d12 0.00002000 sec
DELTA 0.00001222 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

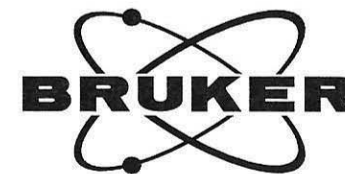
===== CHANNEL f1 =====
NUC1 13C
P1 9.60 usec
p2 19.20 usec
PL1 3.00 dB
SFO1 125.7200692 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 14.90 usec
p4 29.80 usec
PCPD2 100.00 usec
PL2 0.00 dB
PL12 16.54 dB
SFO2 499.9319997 MHz

F2 - Processing parameters
SI 32768
SF 125.7074980 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

Compound 1
synthetic Plakotenin

Supplementary Material (ESI) for Organic & Biomolecular Chemistry
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Current Data Parameters
NAME bourno30
EXPNO 10
PROCNO 1

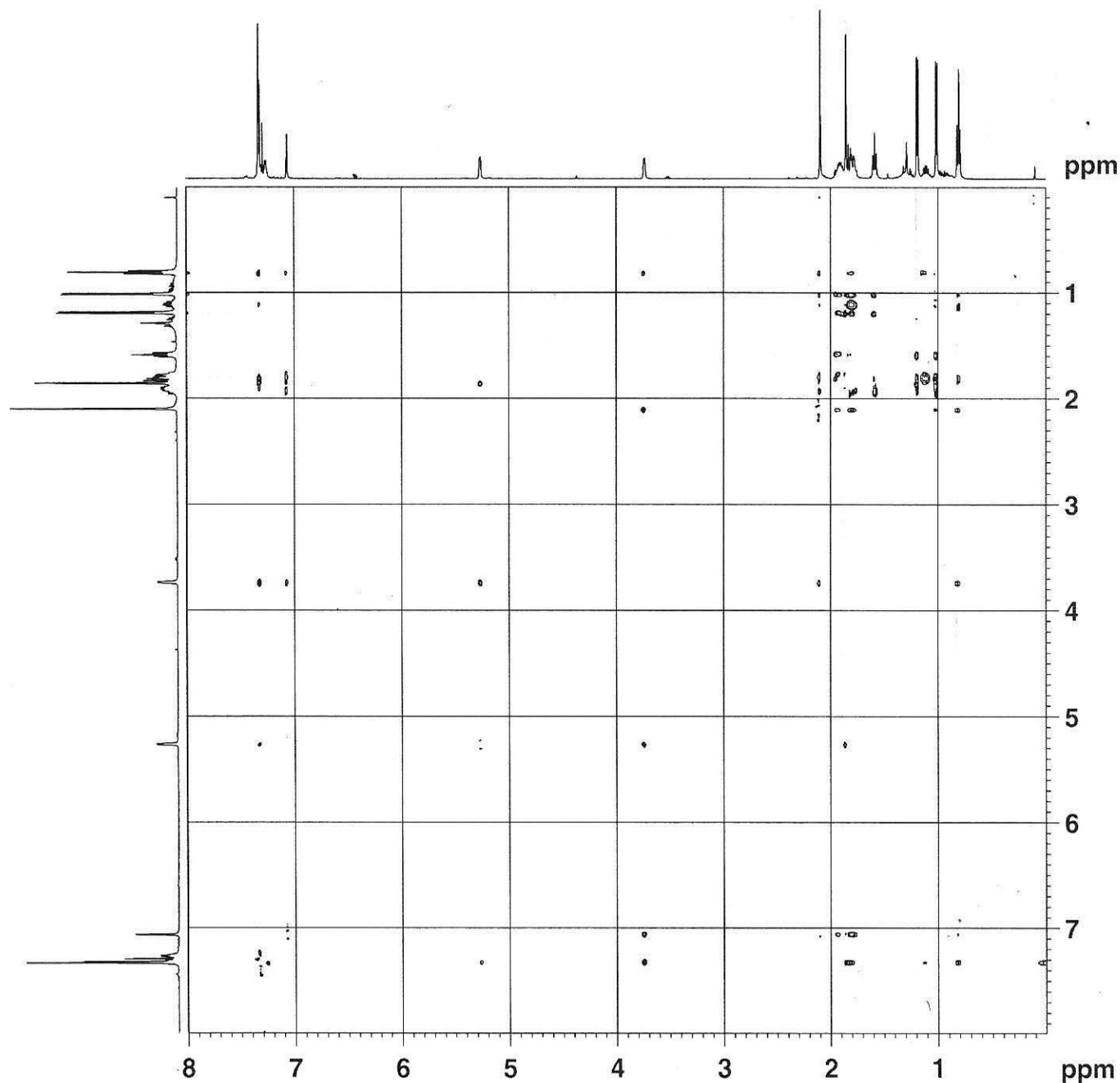
F2 - Acquisition Parameters
Date_ 20091203
Time 15.25
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG noesyph
TD 2048
SOLVENT CDCl3
NS 16
DS 4
SWH 4006.410 Hz
FIDRES 1.956255 Hz
AQ 0.2556404 sec
RG 114
DW 124.800 usec
DE 6.00 usec
TE 298.6 K
d0 0.00010528 sec
D1 2.00000000 sec
D8 0.38999999 sec
INO 0.00025004 sec
MCREST 0.00000000 sec
MCWRK 1.00000000 sec
ST1CNT 256

===== CHANNEL f1 =====
NUC1 1H
P1 15.50 usec
PL1 0.00 dB
SFO1 499.9319997 MHz

F1 - Acquisition parameters
ND0 1
TD 512
SFO1 499.932 MHz
FIDRES 7.811328 Hz
SW 8.000 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 1024
SF 499.9300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 499.9300000 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0



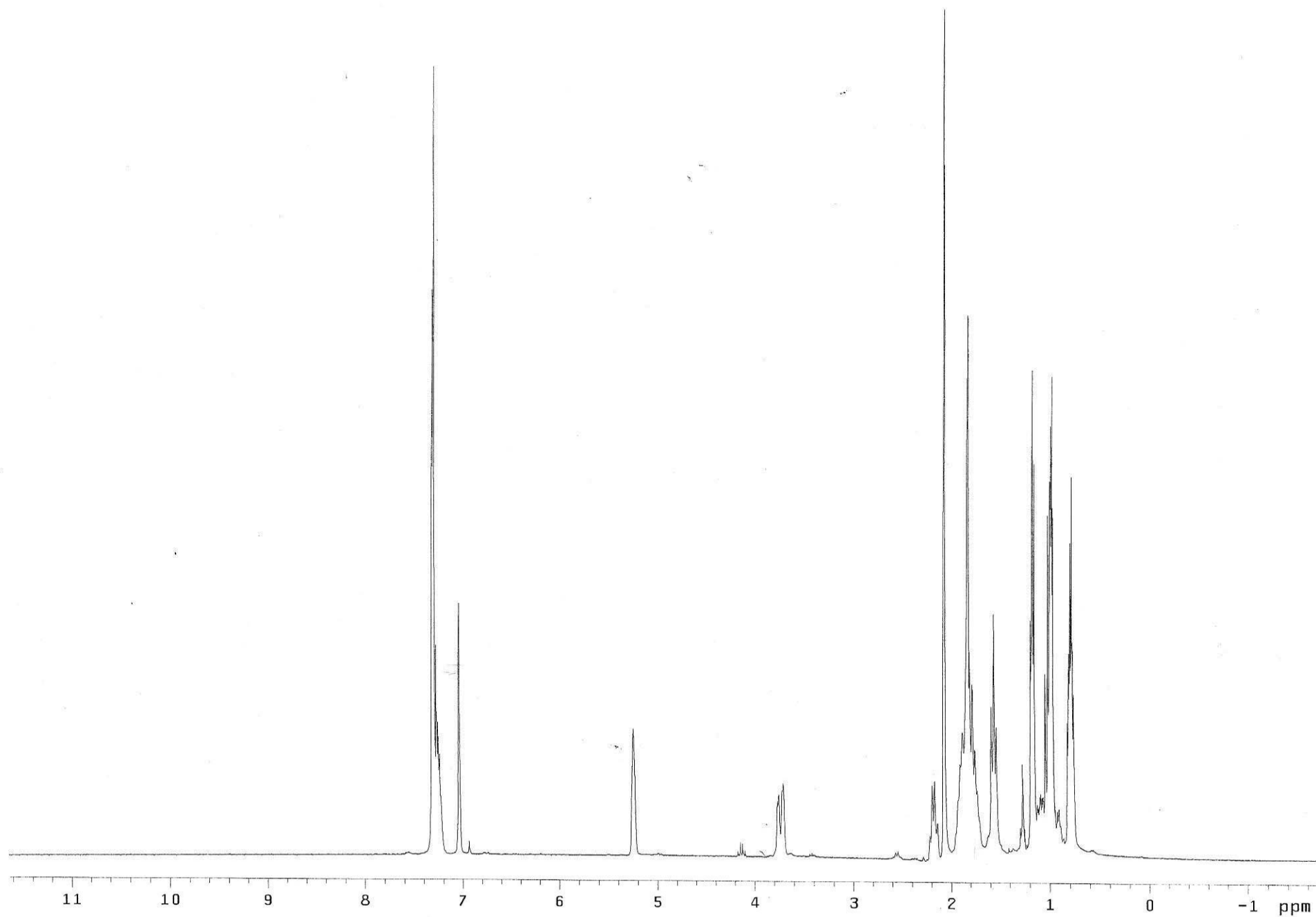
Compound 1

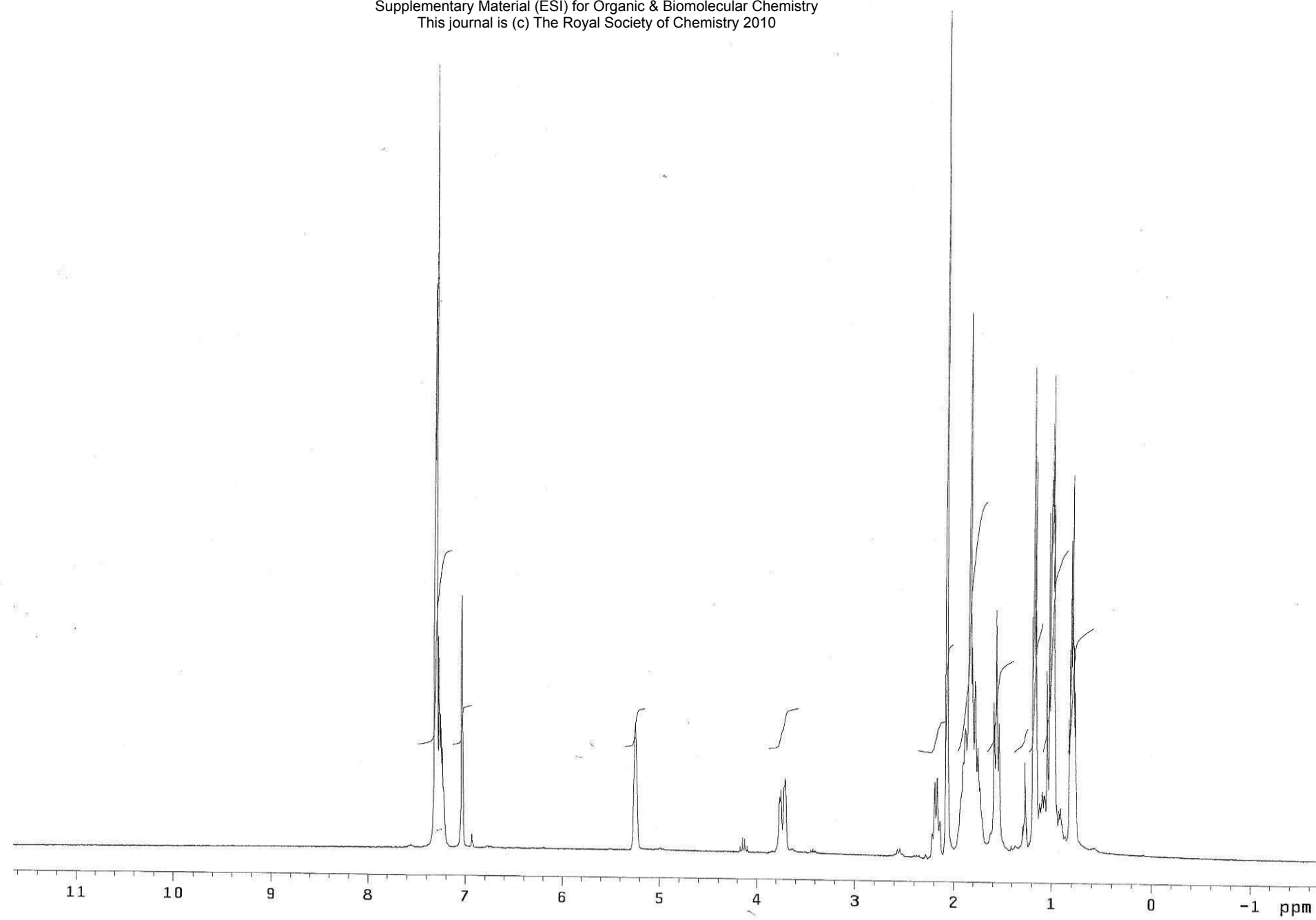
natural Plakotenin^[2]

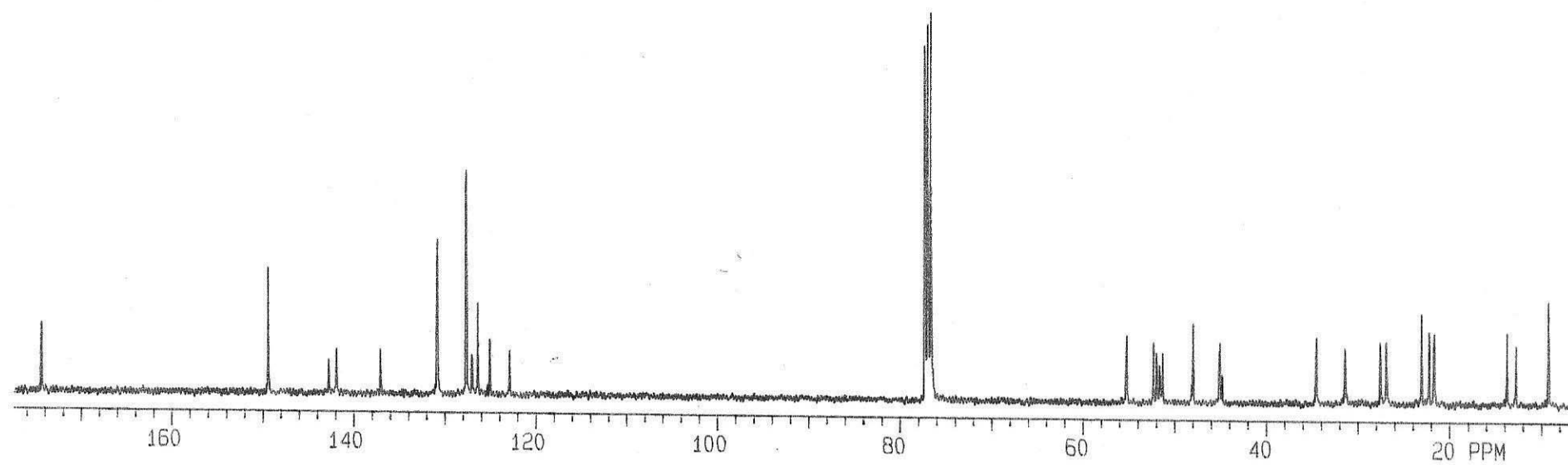
contains traces of Homo-Plakotenin as both compounds could not be completely separated

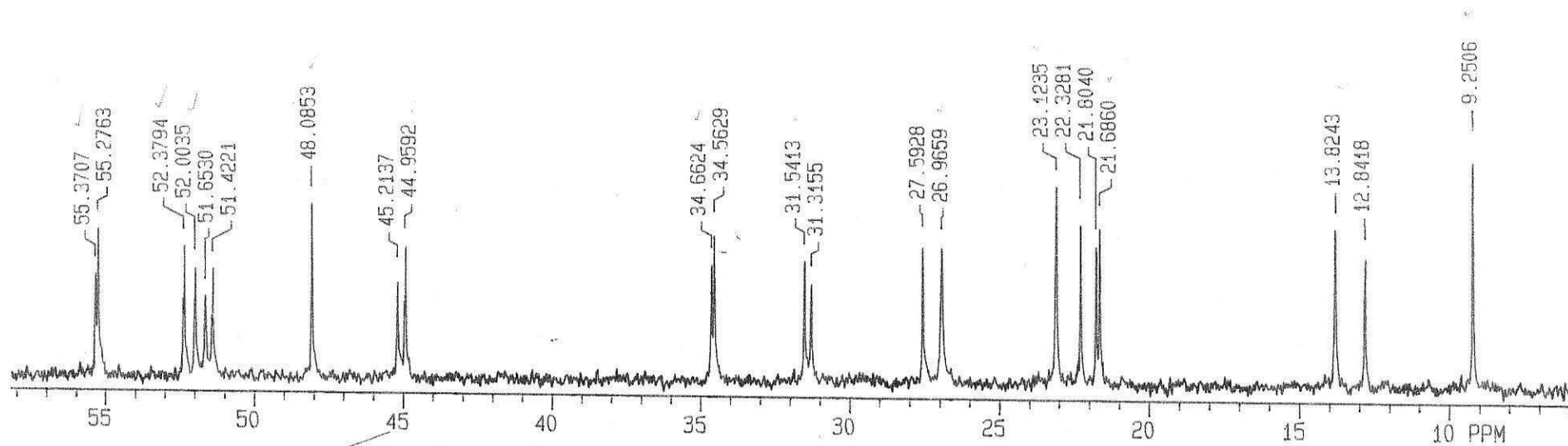
Supplementary Material (ESI) for Organic & Biomolecular Chemistry

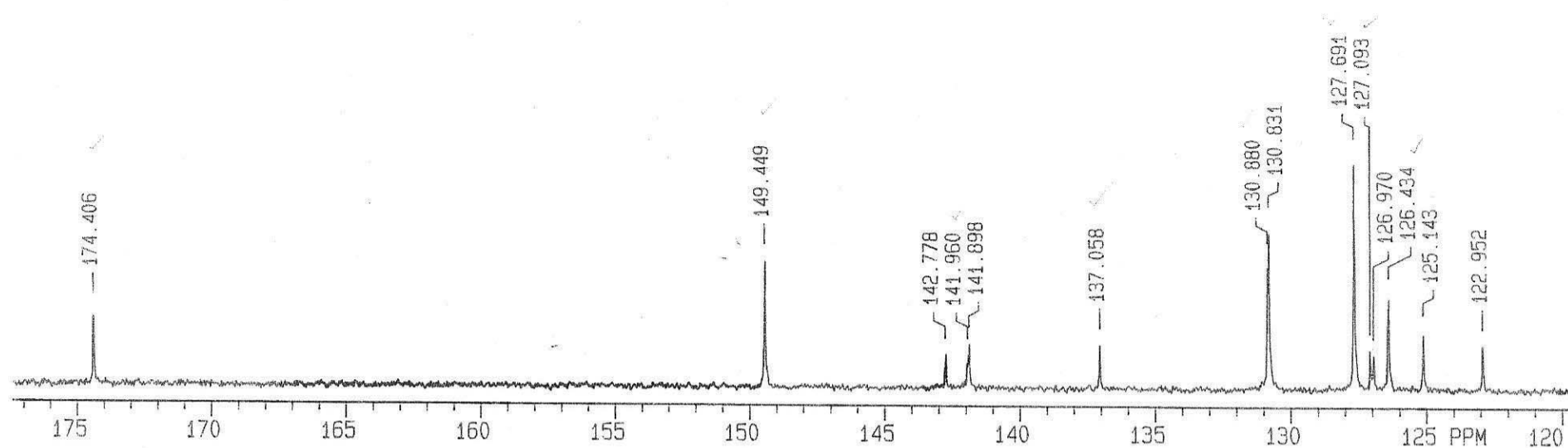
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References

- [1] J. Kobayashi, S. Takeuchi, M. Ishibashi, H. Shigemori and T. Sasaki *Tetrahedron Lett.* 1992, **33**, 2579–2580.
- [2] Spectra of natural Plakotenin kindly provided by Dr. A. Quereshi.
- [3] H. E. Gottlieb, V. Kotlyar and A. Nudelman *J. Org. Chem.* 1997, **62**, 7512–7515.