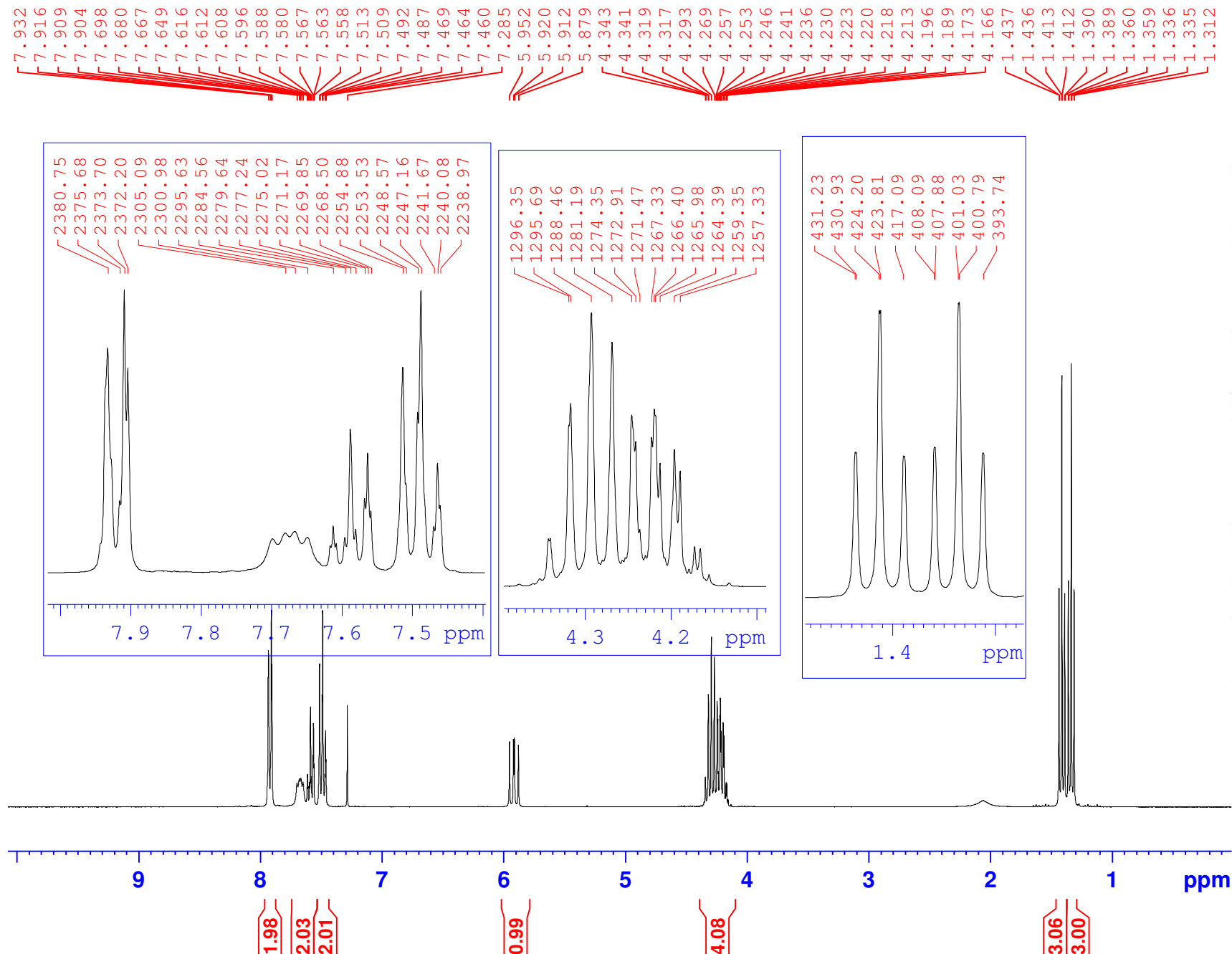


Supplementary Materials: Diethyl (azido(benzamido)- methyl)phosphonate (1)



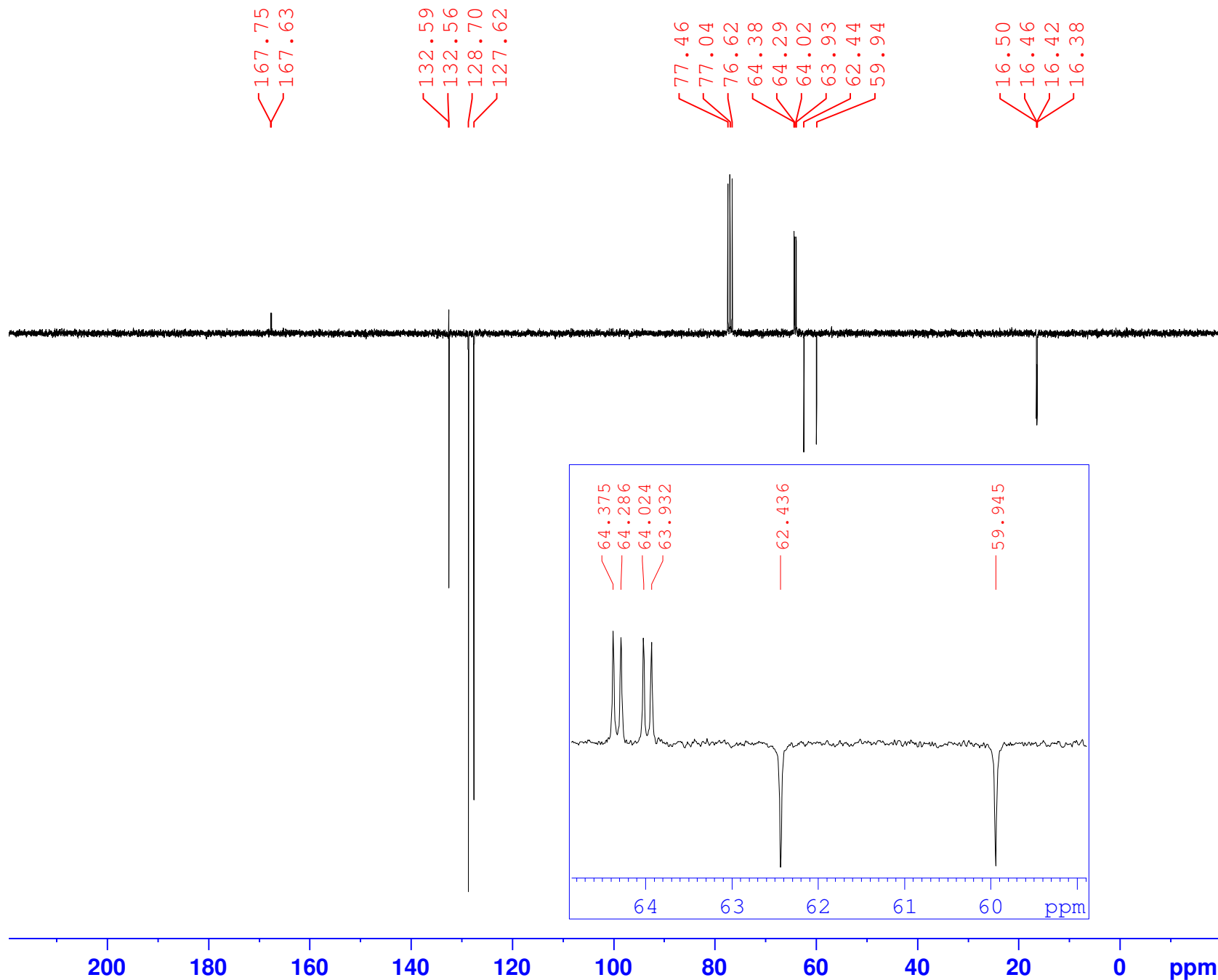
Current Data Parameters
NAME SF 52
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200702
Time 9.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 16
DS 2
SWH 6009.615 Hz
FIDRES 0.091699 Hz
AQ 5.4525952 sec
RG 161
DW 83.200 usec
DE 6.50 usec
TE 297.5 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 300.1318534 MHz
NUC1 1H
P1 11.00 usec
PLW1 19.00000000 W

F2 - Processing parameters
SI 65536
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Figure S1: ¹H-NMR spectrum of compound (1)



Current Data Parameters

NAME	SF 52
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20200702
Time	9.43
INSTRUM	spect
PROBHD	5 mm PABBO BB/
PULPROG	jmod
TD	65536
SOLVENT	CDC13
NS	1024
DS	4
SWH	18028.846 Hz
FIDRES	0.275098 Hz
AQ	1.8175317 sec
RG	1620
DW	27.733 usec
DE	6.50 usec
TE	298.2 K
CNST2	145.000000
CNST11	1.0000000
D1	2.00000000 sec
D20	0.00689655 sec
TD0	1

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

SFO1	75.4752953 MHz
NUC1	13C
P1	8.50 usec
P2	17.00 usec
PLW1	41.00000000 W

===== CHANNEL f2 =====

SFO2	300.1312005 MHz
NUC2	1H
CPDPRG[2]	waltz16
PCPD2	90.00 usec
PLW2	19.00000000 W
PLW12	0.25861001 W

F2 - Processing parameters

SI	32768
SF	75.4677485 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

Figure S2: ^{13}C -NMR spectrum of compound (1)



Current Data Parameters
NAME SF 52
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200704
Time 10.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG cosygpppgf
TD 2048
SOLVENT CDCl3
NS 2
DS 8
SWH 4006.410 Hz
FIDRES 1.956255 Hz
AQ 0.2555904 sec
RG 362
DW 124.800 usec
DE 6.50 usec
TE 297.3 K
D0 0.00000300 sec
D1 2.00000000 sec
D11 0.03000000 sec
D12 0.00002000 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00024960 sec

===== CHANNEL f1 =====
SF01 300.1318044 MHz
NUC1 1H
P0 11.00 usec
P1 11.00 usec
P17 2500.00 usec
PLW1 19.00000000 W
PLW10 2.55439997 W

===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPZ1 10.00 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 128
SF01 300.1318 MHz
FIDRES 31.300079 Hz
SW 13.349 ppm
FnMODE QF

F2 - Processing parameters
SI 1024
SF 300.1300000 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1300000 MHz
WDW QSINE
SSB 0
LB 0 Hz
GB 0

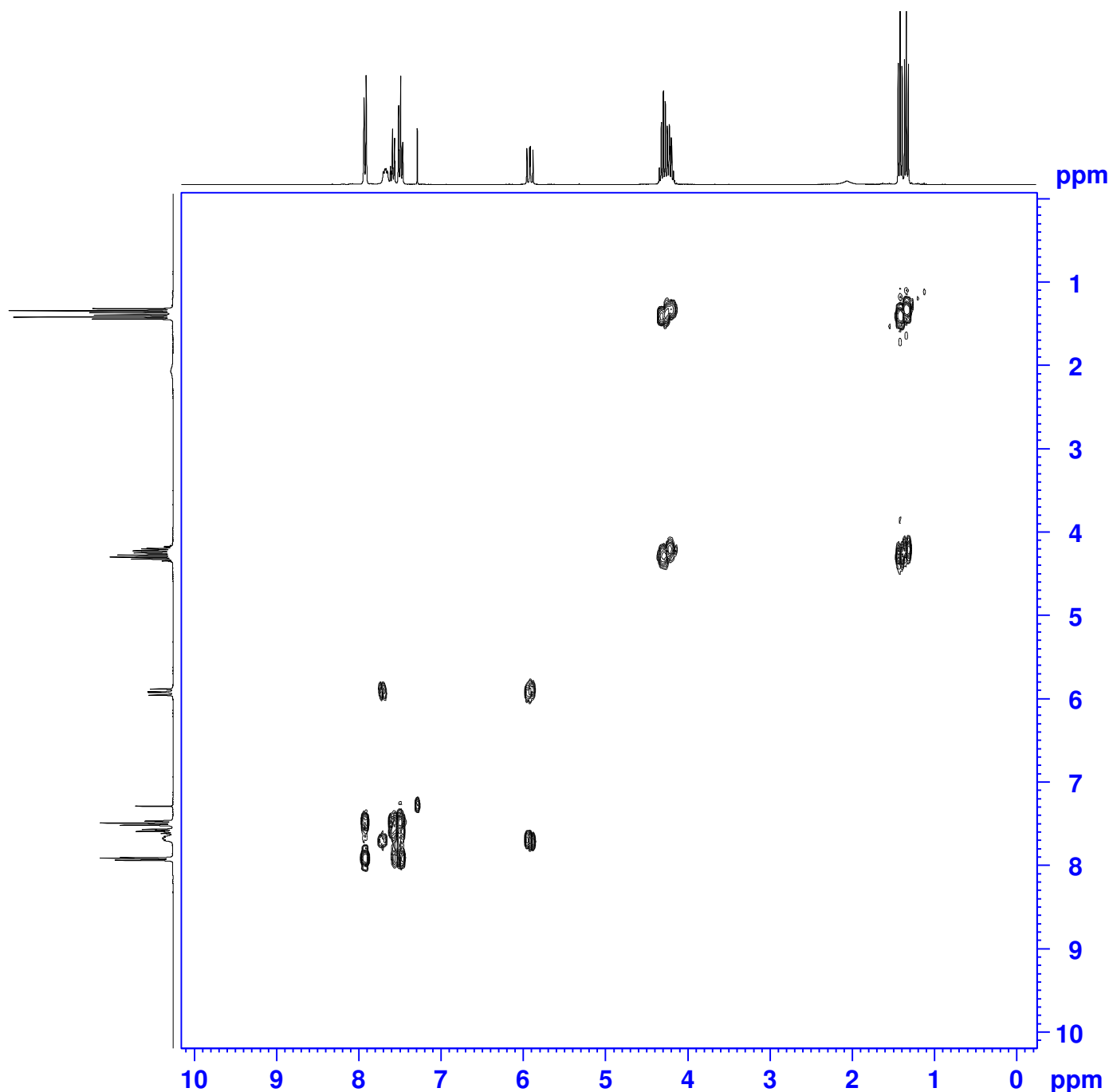


Figure S3: Homonuclear ^1H - ^1H spectrum of compound (1)



Current Data Parameters
NAME SF 52
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200704
Time 13.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcgp 200
TD 1024
SOLVENT CDC13
NS 2
DS 16
SWH 4000.000 Hz
FIDRES 3.906250 Hz
AQ 0.1280000 sec
RG 2050
DW 125.000 usec
DE 6.50 usec
TE 298.8 K
CNST2 145.0000000
D0 0.00000300 sec
D1 1.50000000 sec
D4 0.00172414 sec
D11 0.03000000 sec
D13 0.00000400 sec
D16 0.00020000 sec
D24 0.00086207 sec
IN0 0.00003310 sec
ZGPTNS

===== CHANNEL f1 =====
SFO1 300.1318044 MHz
NUC1 1H
P1 11.00 usec
P28 22.00 usec
P28 1000.00 usec
PLW1 19.00000000 W

===== CHANNEL f2 =====
SFO2 75.4760505 MHz
NUC2 13C
CPDPRG[2] garp
P3 9.00 usec
P4 18.00 usec
PCPD2 80.00 usec
PLW2 41.00000000 W
PLW12 0.51890999 W

===== GRADIENT CHANNEL =====
GPNAM[1] SINE.100
GPNAM[2] SINE.100
GPNAM[3] SINE.100
GPNAM[4] SINE.100
GPZ1 80.00 %
GPZ2 20.10 %
GPZ3 11.00 %
GPZ4 -5.00 %
P16 1000.00 usec
P19 600.00 usec

F1 - Acquisition parameters
TD 256
SFO1 75.47605 MHz
FIDRES 59.006798 Hz
SW 200.140 ppm
FnMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 300.1300000 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 75.4677490 MHz
WDW QSINE
SSB 2
LB 0 Hz
GB 0

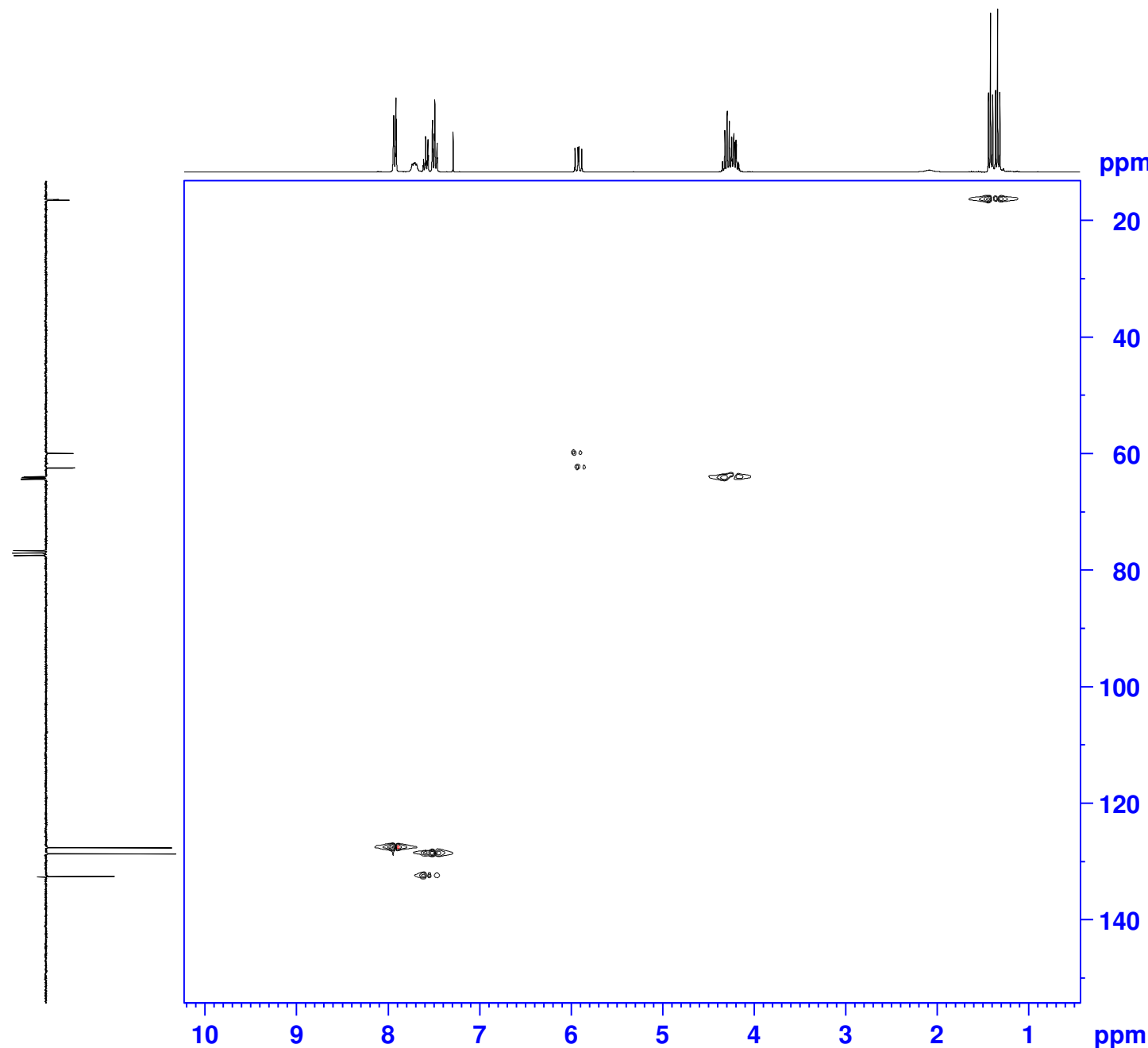


Figure S4: Heteronuclear ^1H - ^{13}C spectrum of compound (1)