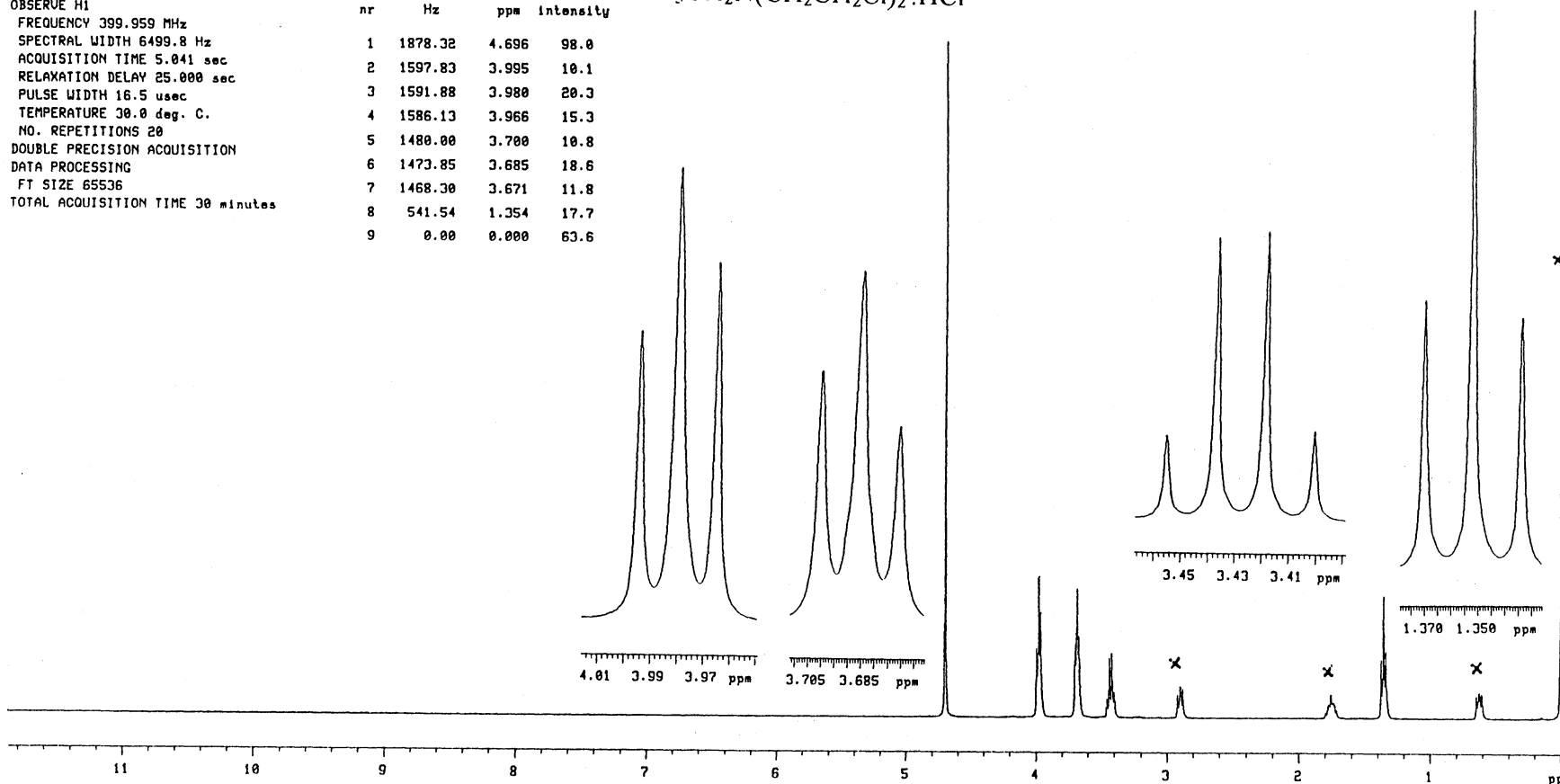
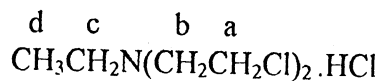


H-NMR hb30a2 d1=25
 25.20mg 508GM11 in D2O
 + 20.72mg DSS
 213194534 jrn.271;116/200
 OBSERVE H1
 FREQUENCY 399.959 MHz
 SPECTRAL WIDTH 6499.8 Hz
 ACQUISITION TIME 5.041 sec
 RELAXATION DELAY 25.000 sec
 PULSE WIDTH 16.5 usec
 TEMPERATURE 30.0 deg. C.
 NO. REPETITIONS 20
 DOUBLE PRECISION ACQUISITION
 DATA PROCESSING
 FT SIZE 65536
 TOTAL ACQUISITION TIME 30 minutes

SPECTRAL LINES for th=9.9			
DSS internal			
nr	Hz	ppm	intensity
1	1878.32	4.696	98.0
2	1597.83	3.995	10.1
3	1591.88	3.980	20.3
4	1586.13	3.966	15.3
5	1480.00	3.700	10.8
6	1473.85	3.685	18.6
7	1468.30	3.671	11.8
8	541.54	1.354	17.7
9	0.00	0.000	63.6



Bis(2-chloroethyl) ethylamine hydrochloride

CAS 3590-07-6

Nucleus :

Frequency :

Concentration : ca. 25 mg/0.7 ml D₂O (pH 1)

Reference DSS internal 0.00 ppm. Res. :3.0 Hz (DSS)

Instrument :

Varian VXR 400S

Temperature : 30 °C

Spectral width : 6499.8 Hz

Data point (FID) : 64 K

Pulse angle : 16.5 μs (60°)

Number of pulses : 20

Repetition time : 30.0 s

Line broadening : not used

Data points (spec) : 64 K

a: 3.98 ppm J(ab) : 5.9 Hz x = DSS

b: 3.69 ppm J(cd) : 7.3 Hz

c: 3.43 ppm

d: 1.35 ppm

insert: spectrum without DSS