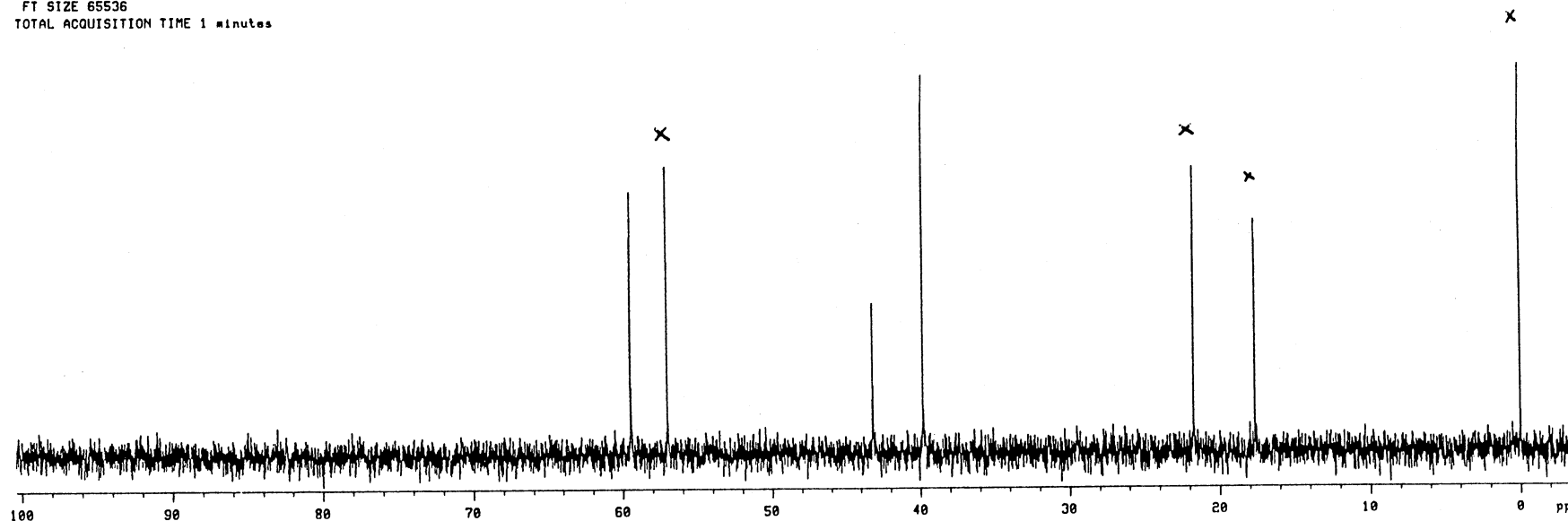
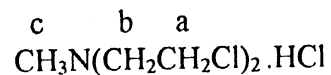


13C-NMR c1b29b2(1H) + DSS
 17.0mg 9508GM10 1n D2O
 213194534 jrn.271;115/200
 OBSERVE C13
 FREQUENCY 100.578 MHz
 SPECTRAL WIDTH 20491.8 Hz
 ACQUISITION TIME 1.599 sec
 RELAXATION DELAY 1.000 sec
 PULSE WIDTH 13.1 usec
 TEMPERATURE 30.0 deg. C.
 NO. REPETITIONS 0
 DECOUPLE H1
 HIGH POWER 44
 DECOUPLER CONTINUOUSLY ON
 UALT216 MODULATED
 DOUBLE PRECISION ACQUISITION
 DATA PROCESSING
 LINE BROADENING 1.0 Hz
 FT SIZE 65536
 TOTAL ACQUISITION TIME 1 minutes

SPECTRAL LINES for th=19.4
 rfl= 785.5 rfp= 0.0

DSS internal

nr	Hz	ppm	intensity
1	5981.13	59.467	38.1
2	5734.10	57.011	41.8
3	4343.88	43.189	21.6
4	4003.68	39.807	55.2
5	2185.70	21.731	41.5
6	1775.45	17.652	33.7
7	0.00	0.000	56.5



Bis(2-chloroethyl) methylamine hydrochloride
 CAS 55-86-7
 Nucleus : $^{13}\text{C}\{1\text{H}\}$
 Frequency : 100.6 MHz
 Concentration : ca. 17 mg/0.7 ml D₂O (pH 1)
 Reference DSS internal 0.00 ppm. Res. : 2.7 Hz (DSS)
 Instrument : Varian VXR 400S

Temperature : 30 °C
 Spectral width : 20491.8 Hz
 Data point (FID) : 64 K
 Pulse angle : 13.1 μs (60°)
 Number of pulses : 128
 Repetition time : 2.6 s
 Line broadening : 1.0 Hz
 Data points (spec) : 64 K

a: 39.8 ppm x = DSS
 b: 59.5 ppm
 c: 43.2 ppm