13C-NMR c1c38b(1H)
9508GM12A in D2O
213194534 jrn.271;163/200
OBSERVE C13
 FREQUENCY 100.579 MHz
 SPECTRAL WIDTH 25000.0 Hz
 ACQUISITION TIME 1.311 sec
 RELAXATION DELAY 1.000 sec
 PULSE WIDTH 13.3 usec
 TEMPERATURE 30.0 deg. C.
 NO. REPETITIONS 1952
DECOUPLE H1
 HIGH POWER 44
 DECOUPLER CONTINUOUSLY ON
 WALTZ16 MODULATED
DOUBLE PRECISION ACQUISITION
DATA PROCESSING
 LINE BROADENING 1.0 Hz
 FT SIZE 65536
TOTAL ACQUISITION TIME 75 minutes

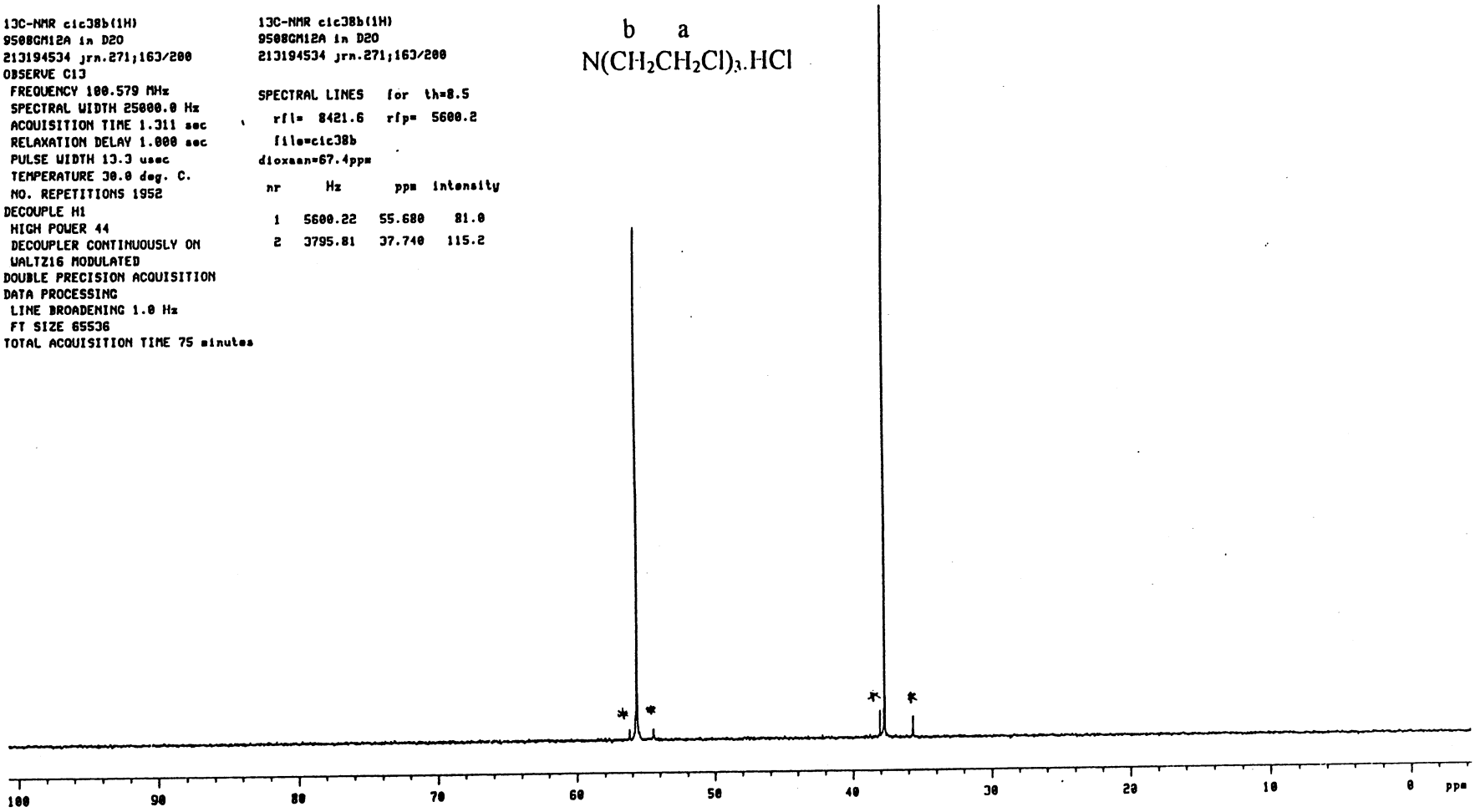
13C-NMR c1c38b(1H)
9508GM12A in D2O
213194534 jrn.271;163/200

SPECTRAL LINES for th=8.5
 rfl= 8421.6 rfp= 5600.2
 file=c1c38b
dioxaan=67.4ppm

nr	Hz	ppm	intensity
1	5600.22	55.680	81.0
2	3795.81	37.740	115.2

b a

$N(CH_2CH_2Cl)_3.HCl$



Tris(2-chloroethyl)amine hydrochloride
CAS 817-09-4
Nucleus : $^{13}C\{1H\}$
Frequency : 100.6 MHz
Concentration : ca. 16 mg/0.7 ml D_2O (pH=1)
Ref. p-dioxane ext. 67.4 ppm.
Instrument : Varian VXR 400S

Temperature : 30 °C
Spectral width : 25000.0 Hz
Data point (FID) : 64 K
Pulse angle : 13.3 µs (60°)
Number of pulses : 1952
Repetition time : 2.3 s
Line broadening : 1.0 Hz
Data points (spec) : 64 K

a: 37.7 ppm
b: 55.7 ppm