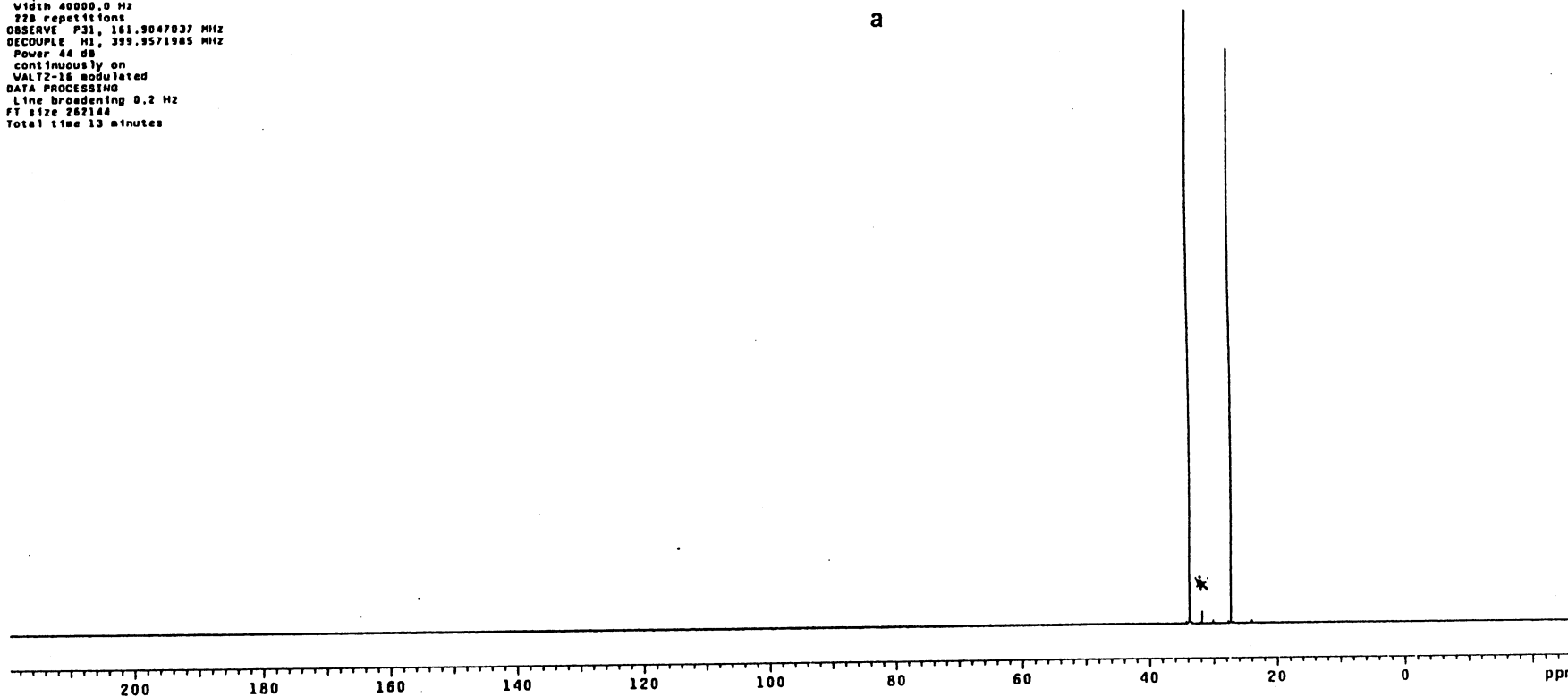
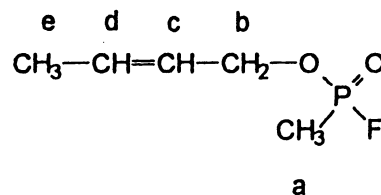


31P-NMR p1e13b(1H)
 95200M01 in CDCl3
 213295198 Jrn.307,033/200
 Solvent: CDCl3
 Temp. 30.0 C / 303.1 K
 User: pm1
 File: p1e13b
 VXR-400S "pmlvvr"
 PULSE SEQUENCE
 Relax. delay 2.000 sec
 Pulse 60.0 degrees
 Acq. time 1.600 sec
 Width 40000.0 Hz
 228 repetitions
 OBSERVE P31, 161.9047037 MHz
 DECOUPLE H1, 399.9571985 MHz
 Power 44 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 262144
 Total time 13 minutes

SPECTRAL LINES for 1h-80.5
 rf1= 8036.7 rfp= 4407.5
 H3PO4 external/res 27.2/2.1Hz

nr	Hz	ppm	intensity
1	5457.89	33.707	90.0
2	4407.47	27.220	84.3



2-Butenyl methylphosphonofluoridate (crotyl sarin)

CAS 138780-00-4

Nucleus : ³¹P{¹H}

Frequency : 161.9 MHz

Concentration : ca. 24 mg/0.7 ml CDCl₃

Reference H₃PO₄ external. Res. : 2.1 Hz (27.2 ppm)

Instrument : Varian VXR 400S

Temperature : 30 °C P: 30.5 ppm J(PF) : 1050.4 Hz

Spectral width : 40000.0 Hz

Data point (FID) : 128000

Pulse angle : 9.7 μs (60°)

Number of pulses : 228

Repetition time : 3.6 s

Line broadening : 0.2 Hz

Data points (spec) : 256 K