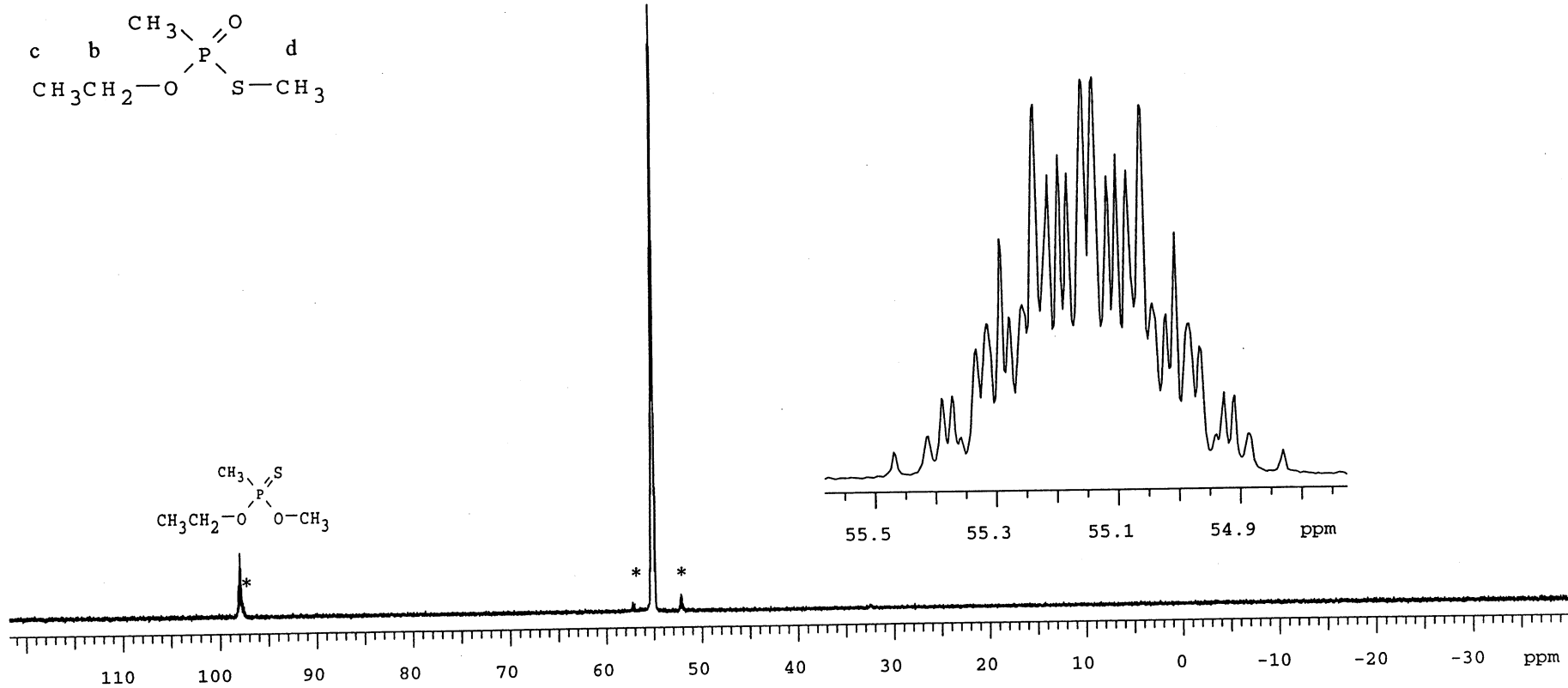
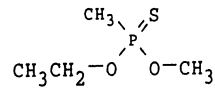
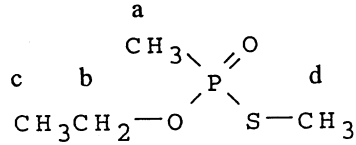


<sup>31</sup>P NMR

**O-Ethyl S-methyl methylphosphonothiolate**  
[51865-09-9]



Solvent: CDCl<sub>3</sub>  
Concentration: 15 µl/0.8 ml  
Reference substance: ext. 85% H<sub>3</sub>PO<sub>4</sub>  
Sample temperature: 29.0 °C  
Resonance frequency: 161.982 MHz  
Spectral width: 26315.8 Hz  
Data points (FID; spec.): 64 k; 64 k

Flip angle; Pulse width: 22 °; 3.6 µs  
No. of scans; Rep. time: 256; 7.2 s  
Weighting; Line broad.: exp.; 0.5 Hz  
Spectral resolution: 1.0 Hz (P)  
Instrument: Bruker AMX-400  
Source reference: 950704-2595  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc. δ [ppm]  
P 55.15 For couplings see the <sup>1</sup>H spectrum.

Contains O-ethyl O-methyl methylphosphonothionate as the main impurity

5-3-108

OPCW Code:05-3-0108(p1/1)