

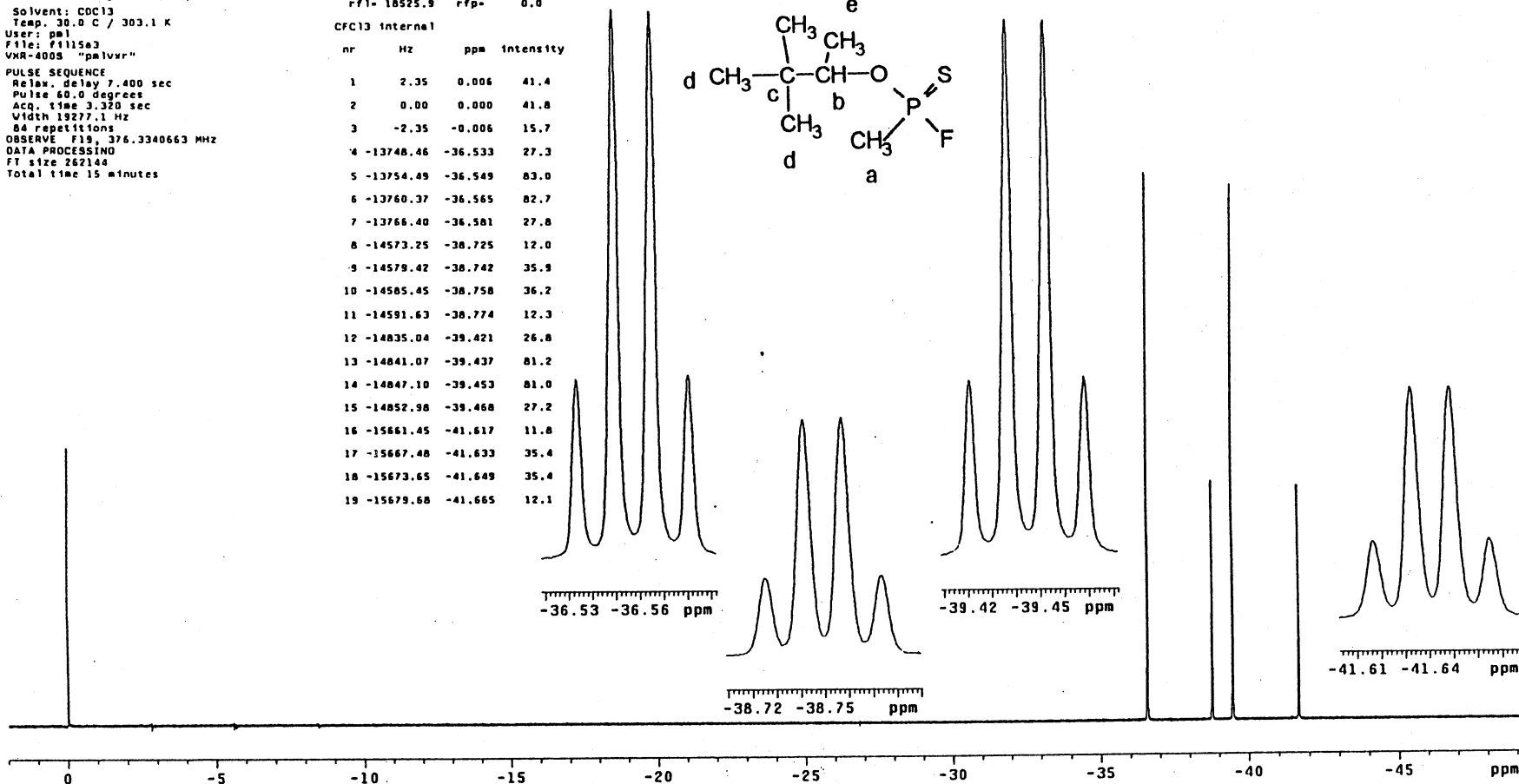
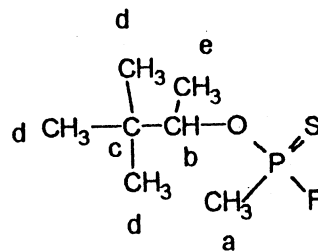
1SF-NMR f1115a3 + sp CFC13  
 thiosoman in ca 0.7ml CDC13  
 214195126.006 jrn.342;139/200  
 Solvent: CDC13  
 Temp. 30.0 C / 303.1 K  
 User: pal  
 File: f1115a3  
 VXR-400S "palvvr"  
 PULSE SEQUENCE  
 Relax. delay 7.400 sec  
 Pulse 60.0 degrees  
 Acq. time 3.320 sec  
 Width 19277.1 Hz  
 84 repetitions  
 OBSERVE F19, 376.3340663 MHz  
 DATA PROCESSING  
 FT size 262144  
 Total time 15 minutes

SPECTRAL LINES for th-4.1

rfl- 18525.9 rfp- 0.0

CFC13 internal

nr	Hz	ppm	intensity
1	2.35	0.006	41.4
2	0.00	0.000	41.8
3	-2.35	-0.006	15.7
4	-13748.46	-36.533	27.3
5	-13754.49	-36.549	83.0
6	-13760.37	-36.565	82.7
7	-13766.40	-36.581	27.8
8	-14573.25	-38.725	12.0
9	-14579.42	-38.742	35.9
10	-14585.45	-38.758	36.2
11	-14591.63	-38.774	12.3
12	-14835.04	-39.421	26.8
13	-14841.07	-39.437	81.2
14	-14847.10	-39.453	81.0
15	-14852.98	-39.468	27.2
16	-15661.45	-41.617	11.8
17	-15667.48	-41.633	35.4
18	-15673.65	-41.649	35.4
19	-15679.68	-41.665	12.1



1,2,2-trimethylpropyl methylthiophosphonofluoridate  
 (2 diastereomers I and II) CAS 97931-17-4

Nucleus : <sup>19</sup>F  
 Frequency : 376.3 MHz  
 Concentration : ca. 34 mg/0.7 ml CDCl<sub>3</sub>  
 Reference CFC1<sub>3</sub> internal. Resolution : 1.1 Hz (CFC1<sub>3</sub>)  
 Instrument : Varian VXR 400S

Temperature : 30 °C  
 Spectral width : 19277.1 Hz  
 Data point (FID) : 64 K  
 Pulse angle : 22.7 μs (60°)  
 Number of pulses : 84  
 Repetition time : 10.7 s  
 Line broadening : not used  
 Data points (spec) : 256 K

I / II I / II  
 F: -38.0/-40.2 ppm J(aF) : 6.0/6.0 Hz  
 J(PF) : 1086.6/1088.1 Hz