

## Tobacco

Tobacco - Captain Black Light

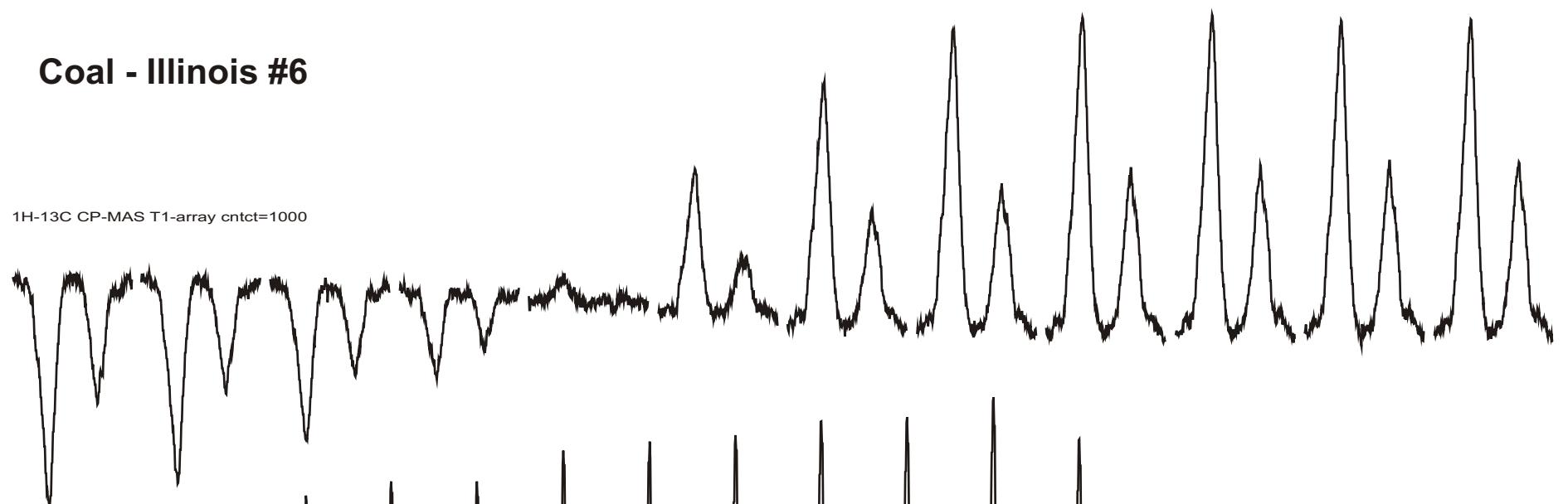
<sup>1</sup>H-<sup>13</sup>C VACP-MAS

JCE-PNA-UP200

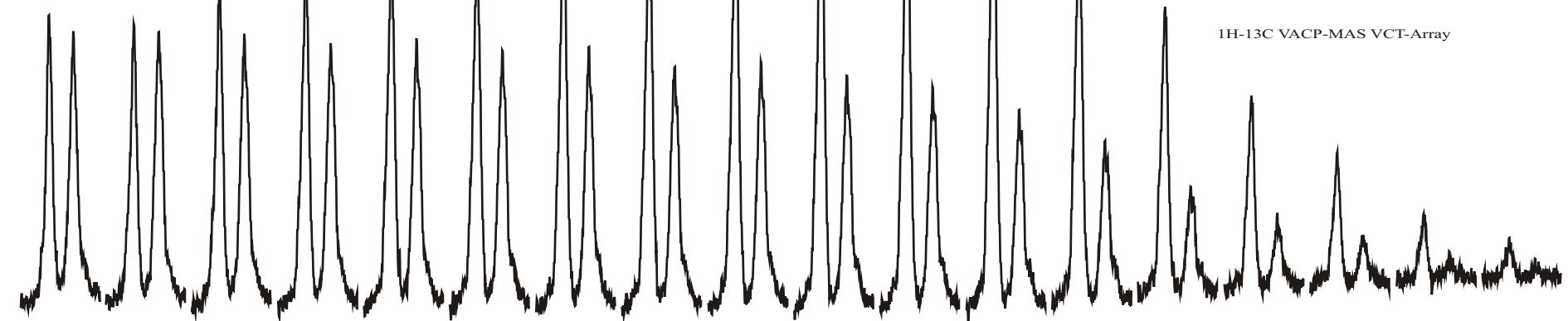


# Coal - Illinois #6

1H-13C CP-MAS T1-array cntct=1000



1H-13C VACP-MAS VCT-Array

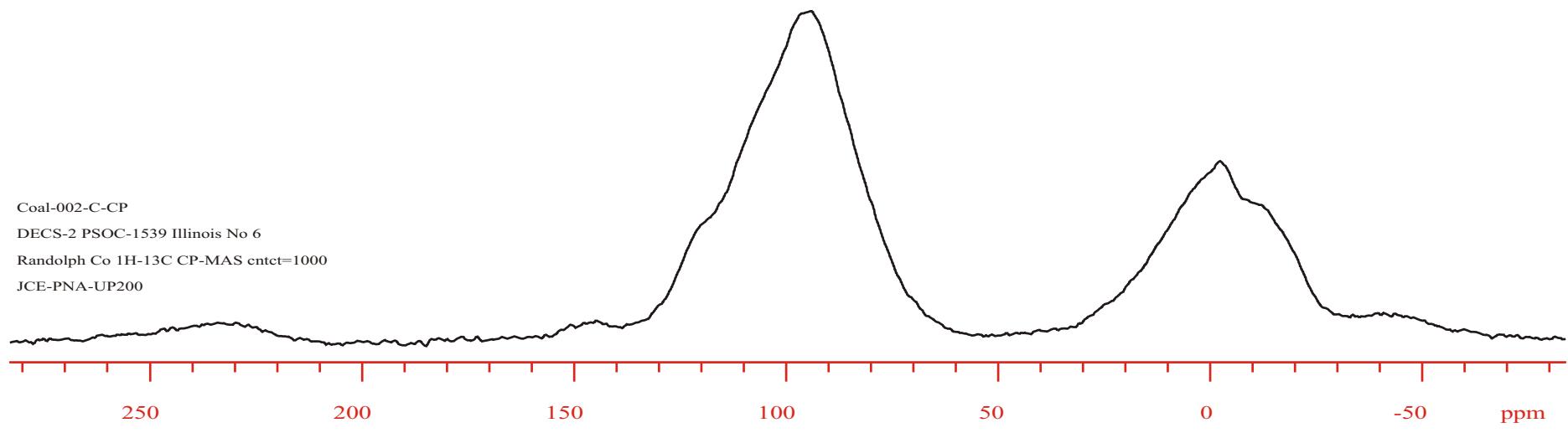


Coal-002-C-CP

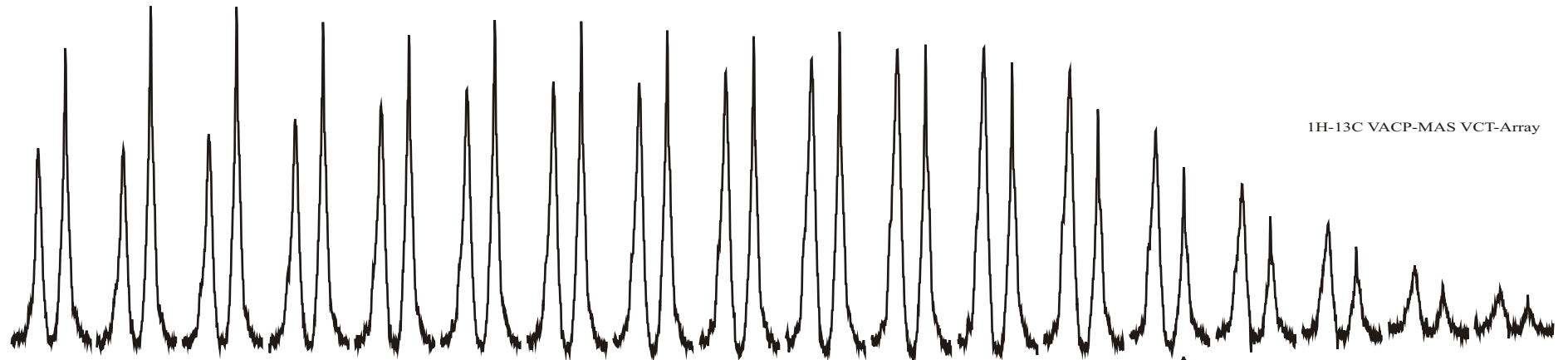
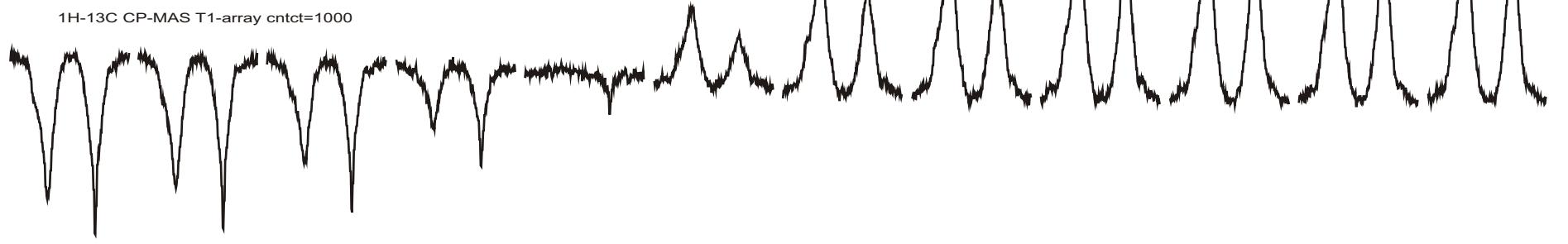
DECS-2 PSOC-1539 Illinois No 6

Randolph Co 1H-13C CP-MAS cntct=1000

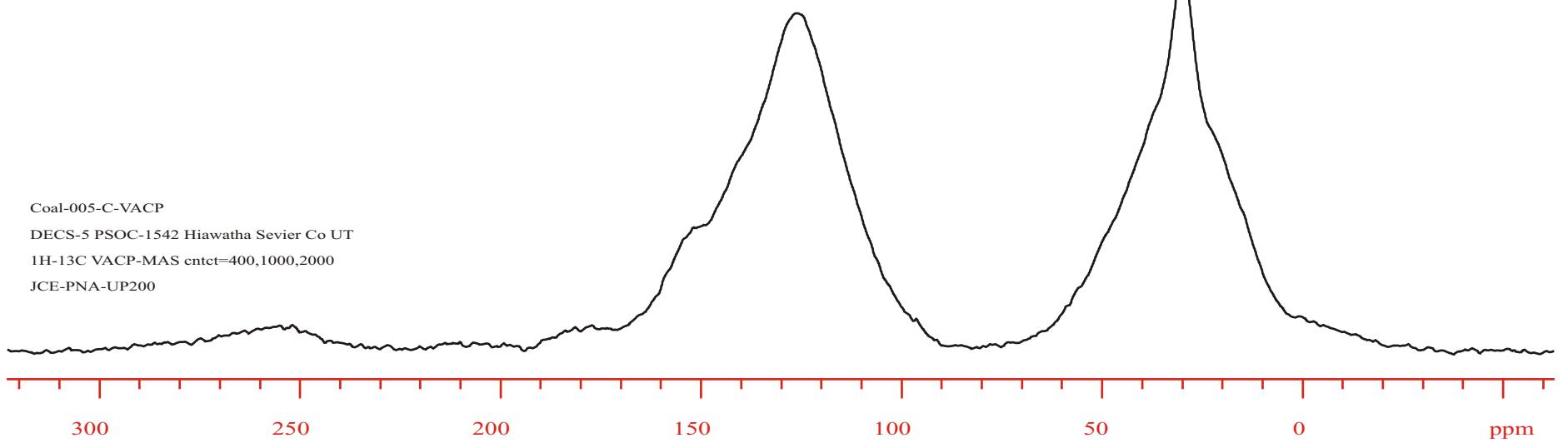
JCE-PNA-UP200

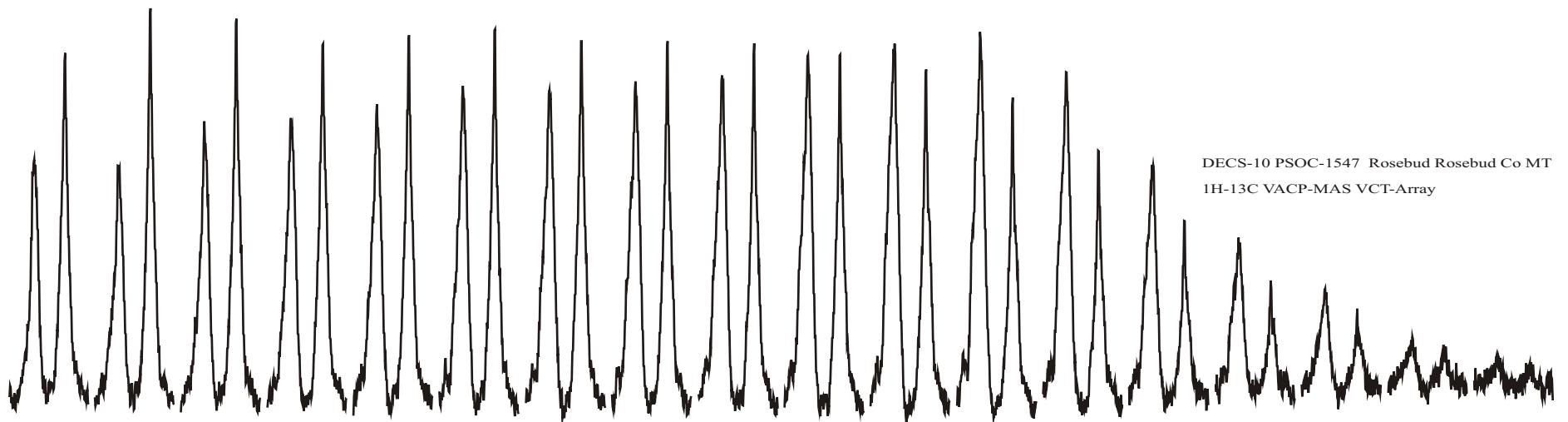


## Coal - Hiawatha



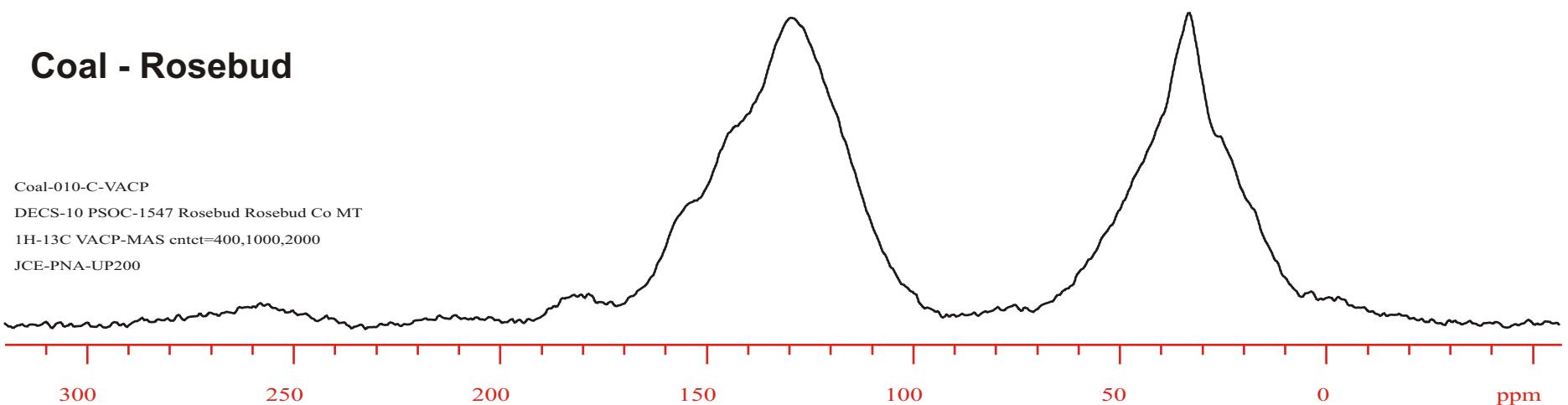
Coal-005-C-VACP  
DECS-5 PSOC-1542 Hiawatha Sevier Co UT  
1H-13C VACP-MAS cntct=400,1000,2000  
JCE-PNA-UP200





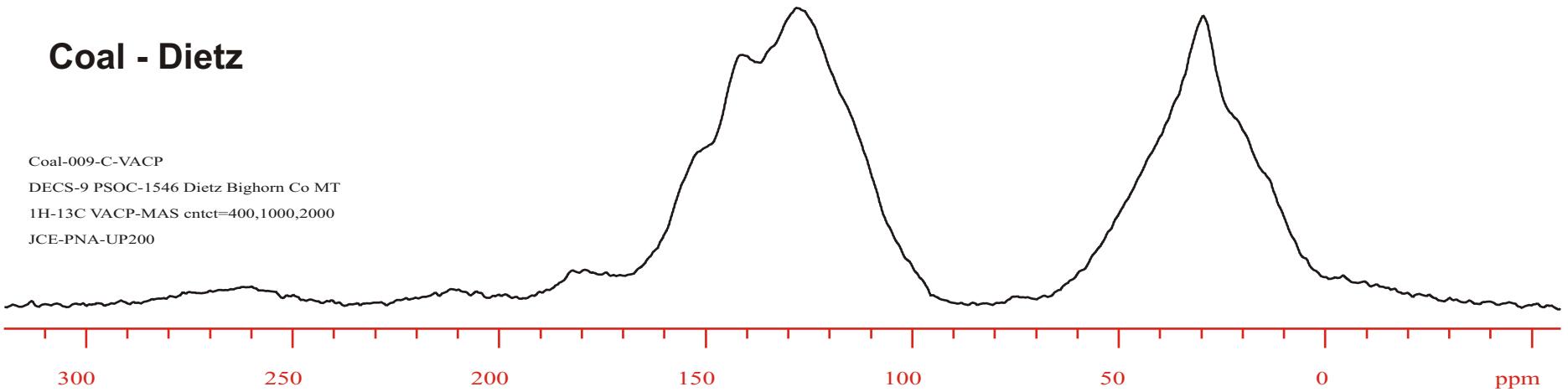
## Coal - Rosebud

Coal-010-C-VACP  
DECS-10 PSOC-1547 Rosebud Rosebud Co MT  
1H-13C VACP-MAS cnct=400,1000,2000  
JCE-PNA-UP200



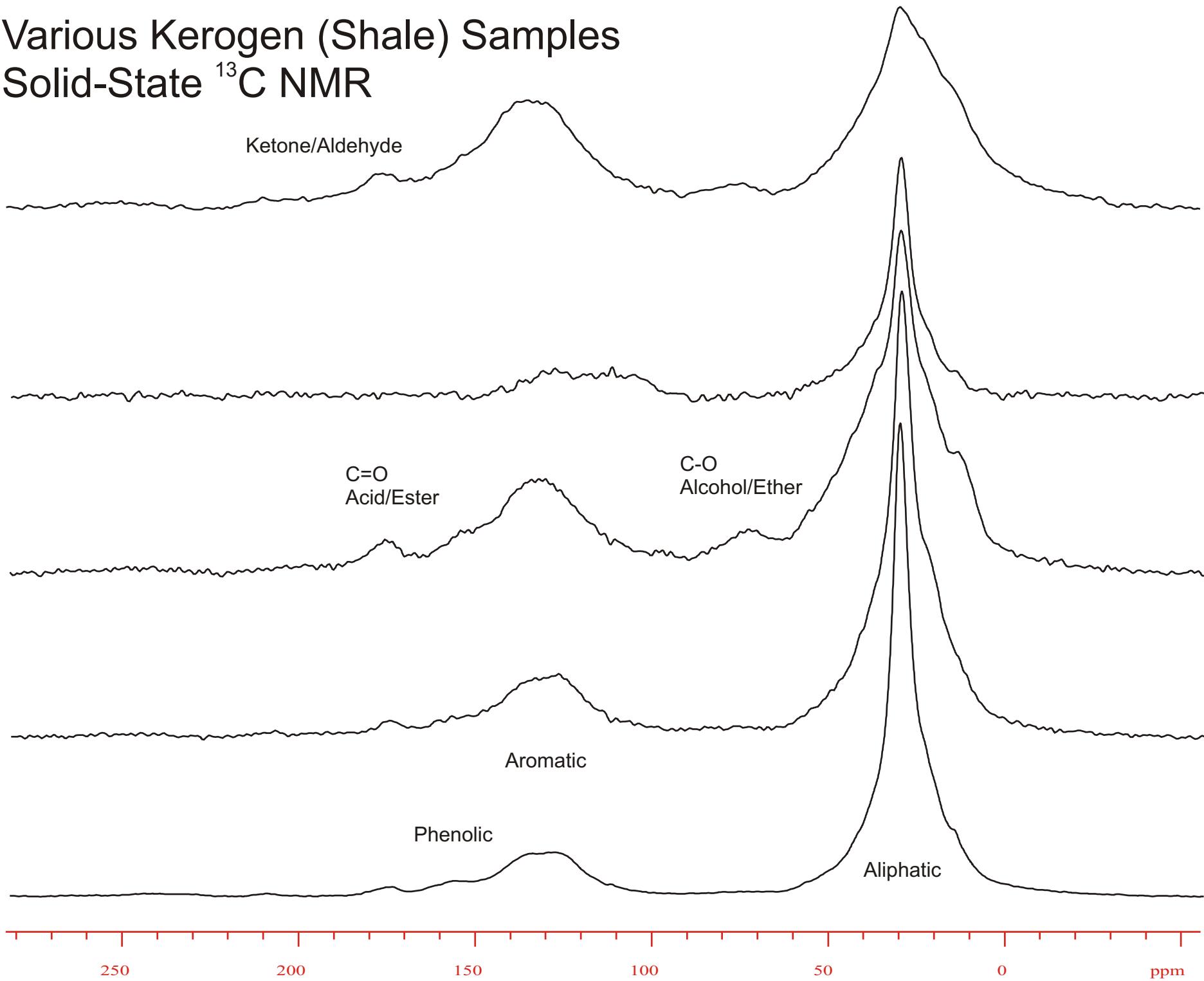
## Coal - Dietz

Coal-009-C-VACP  
DECS-9 PSOC-1546 Dietz Bighorn Co MT  
1H-13C VACP-MAS cnct=400,1000,2000  
JCE-PNA-UP200



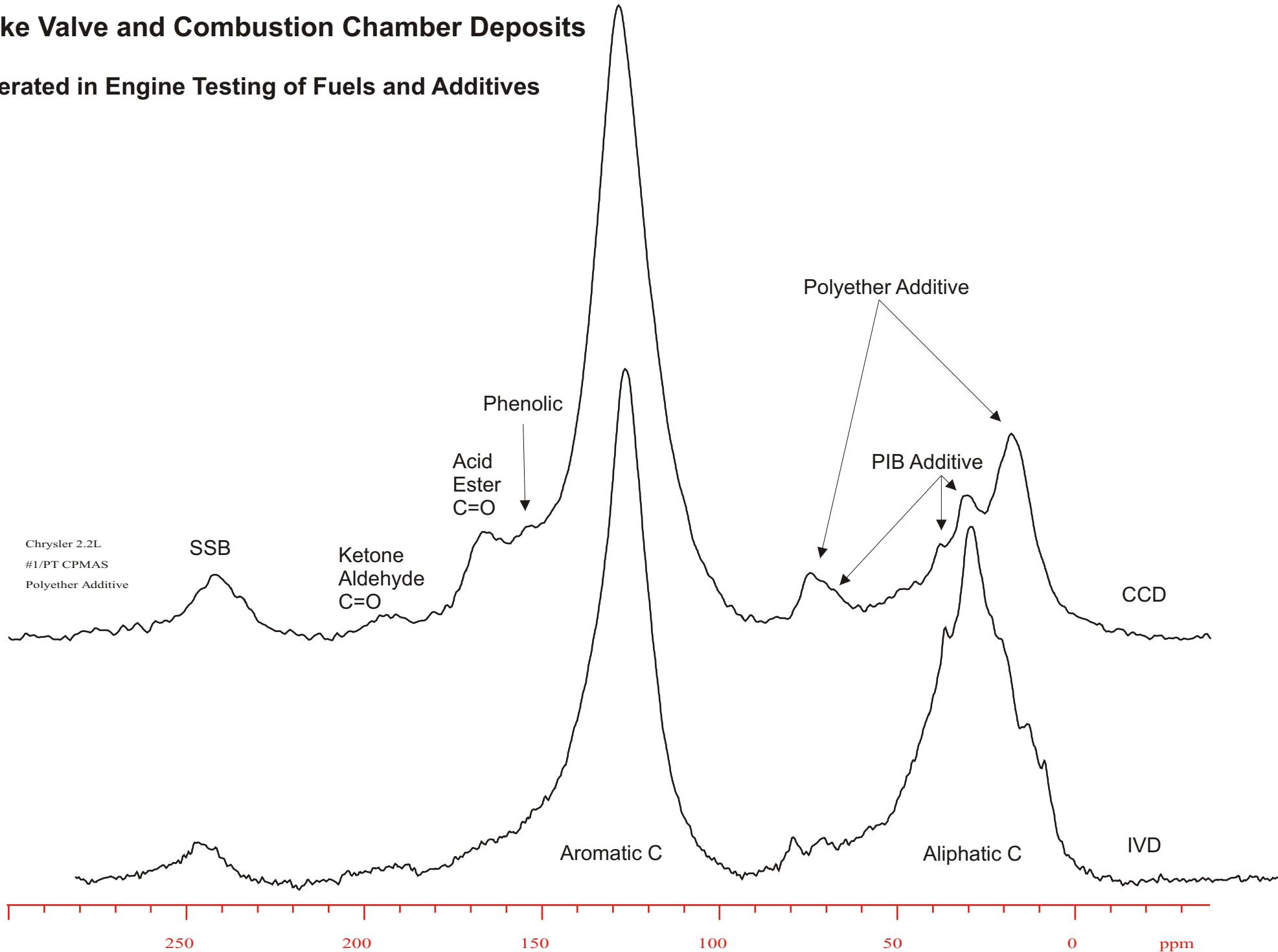
# Various Kerogen (Shale) Samples

## Solid-State $^{13}\text{C}$ NMR

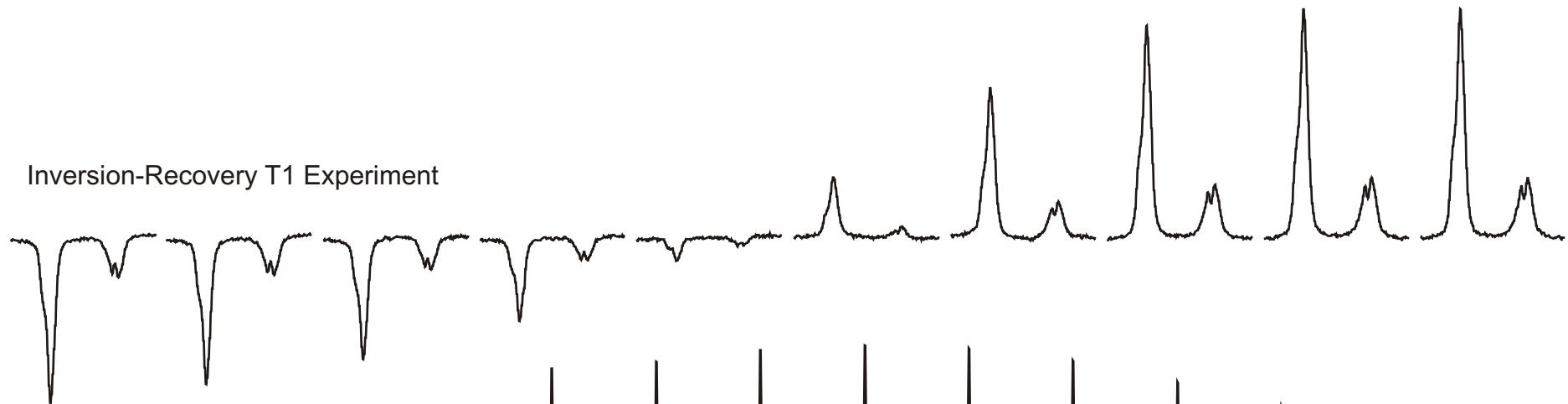


# Intake Valve and Combustion Chamber Deposits

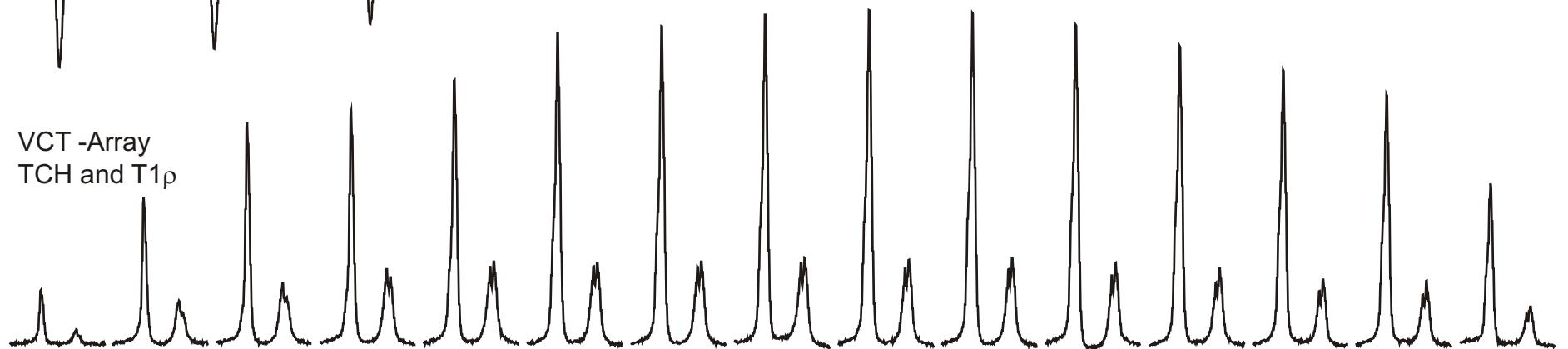
Generated in Engine Testing of Fuels and Additives



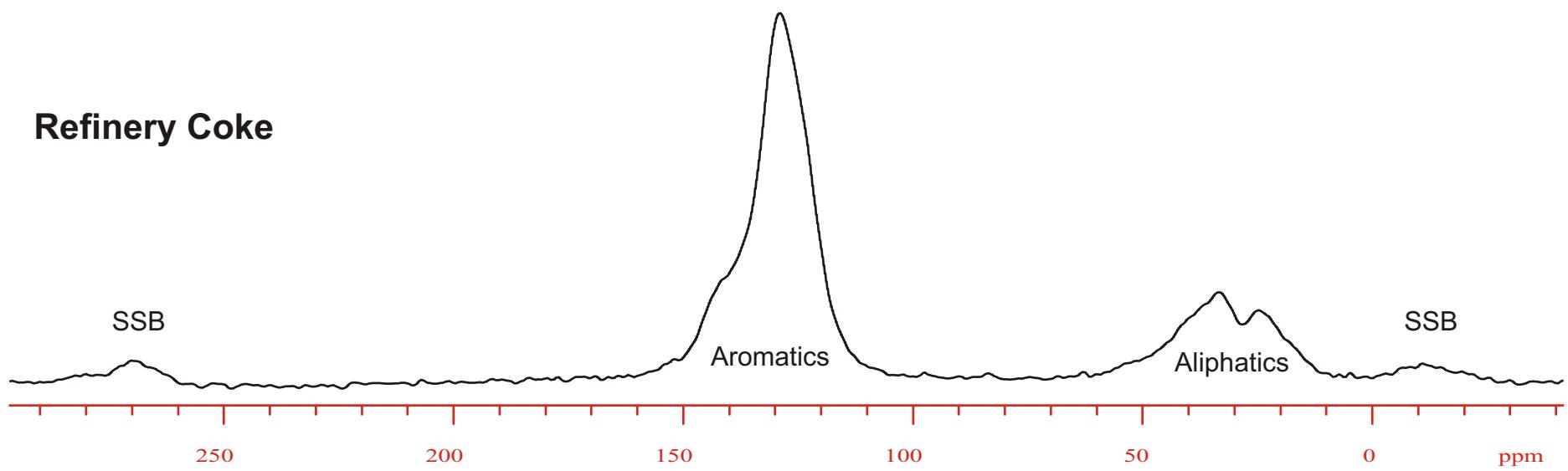
Inversion-Recovery T1 Experiment

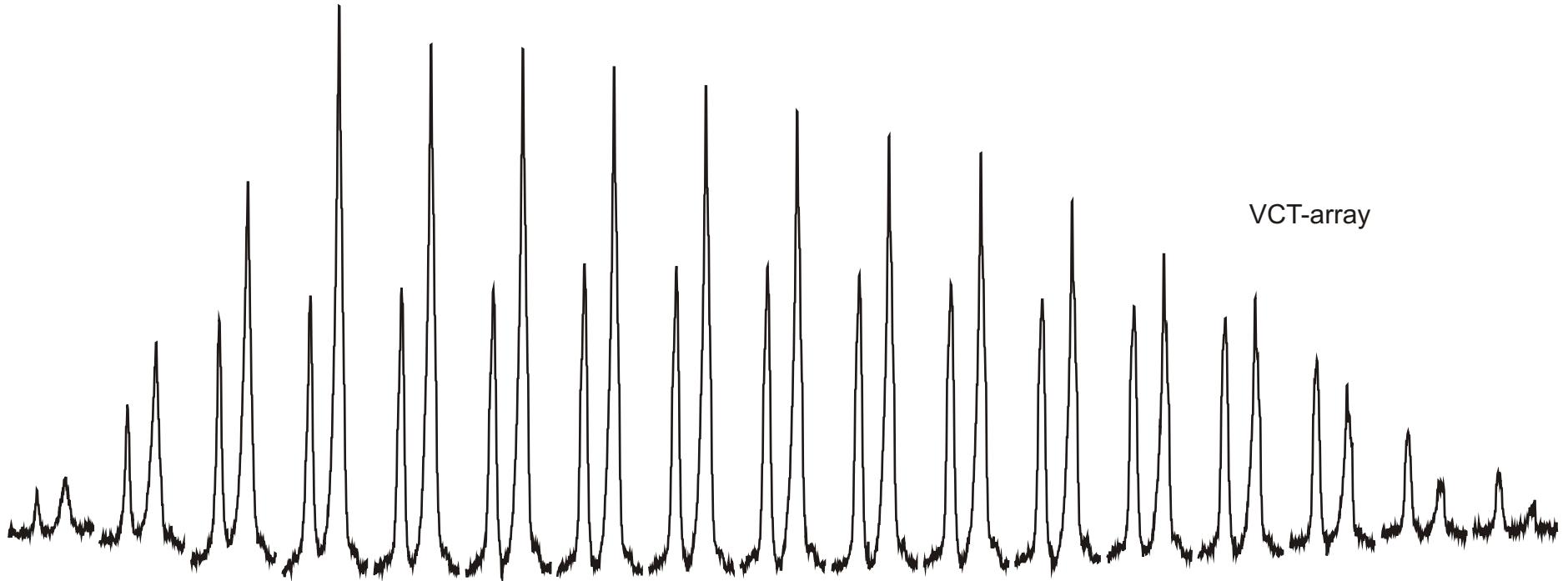


VCT -Array  
TCH and T1 $\rho$



**Refinery Coke**





**Asphaltenes - Arab Medium Heavy**

