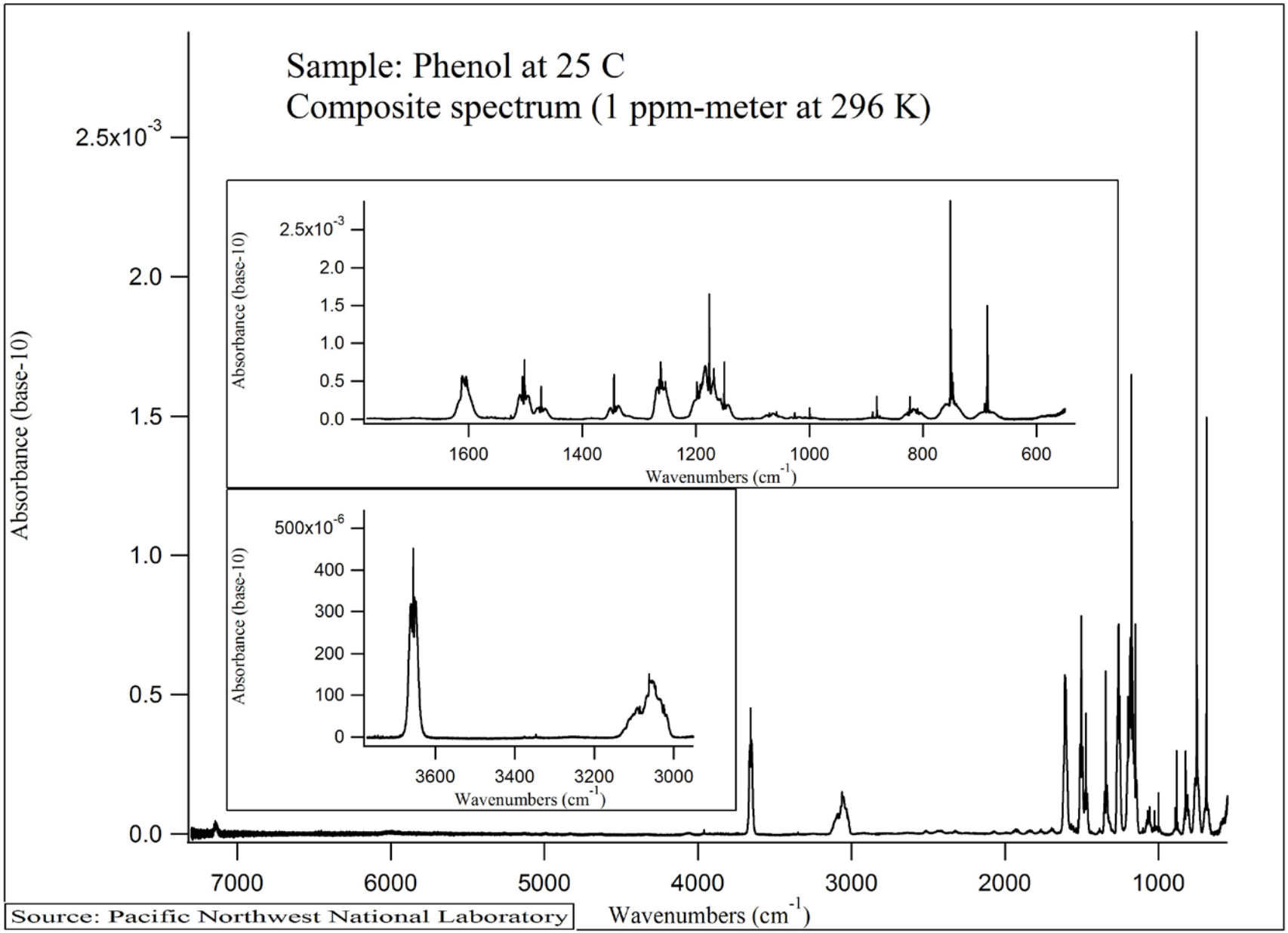
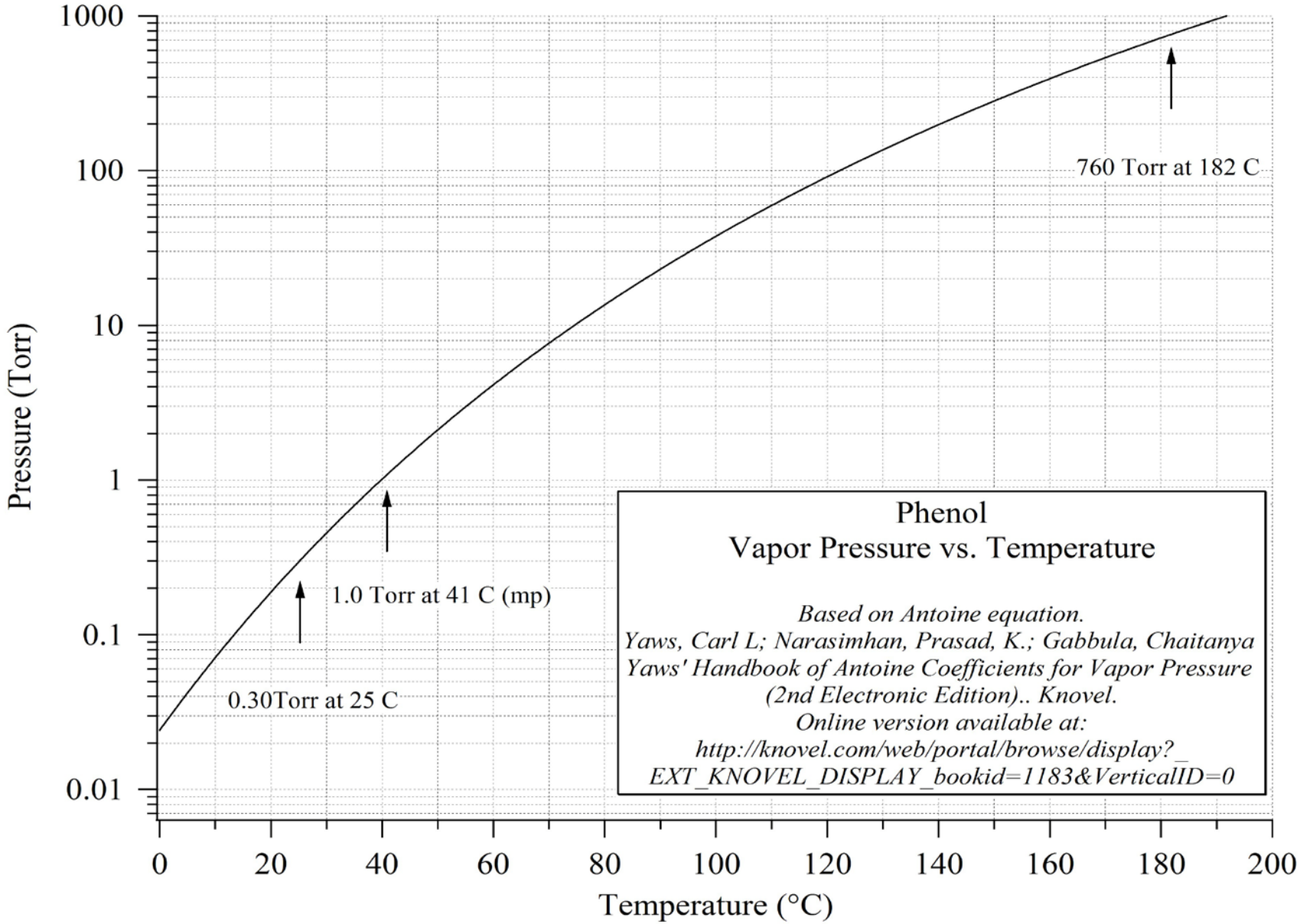

Sample: Phenol at 25 C
Composite spectrum (1 ppm-meter at 296 K)
Absorbance (base-10)
2.5x10-3
2.0
1.5
1.0
0.5
0.0
7000
6000
5000
4000
3000
2000
1000
Wavenumbers (cm-1)
Absorbance (base-10)
2.5x10-3
2.0
1.5
1.0
0.5
0.0
1600
1400
1200
1000
800
600
Wavenumbers (cm-1)
Absorbance (base-10)
500x10-6
400
300
200
100
0
3600
3400
3200
3000
Wavenumbers (cm-1)
Source: Pacific Northwest National Laboratory


Phenol
Vapor Pressure vs. Temperature
Based on Antoine equation.
Yaws, Carl L; Narasimhan, Prasad, K.; Gabbula, Chaitanya
Yaws' Handbook of Antoine Coefficients for Vapor Pressure
(2nd Electronic Edition).. Knovel.
Online version available at:
http://knovel.com/web/portal/browse/display?_
EXT_KNOVEL_DISPLAY_bookid=1183&VerticalID=0
760 Torr at 182 C
1.0 Torr at 41 C (mp)
0.30Torr at 25 C
Pressure (Torr)
1000
100
10
1
0.1
0.01
Temperature (°C)
0
20
40
60
80
100
120
140
160
180
200