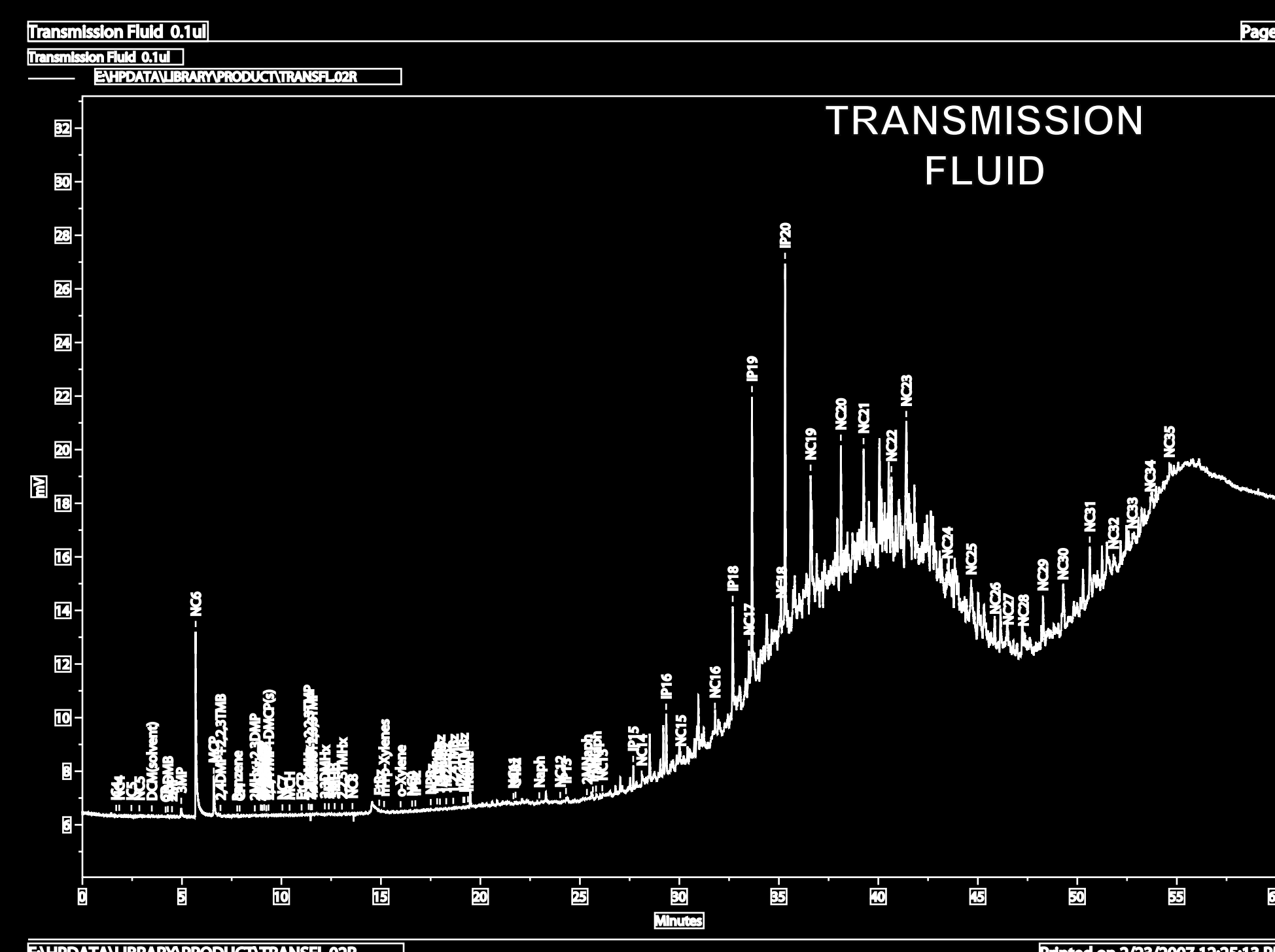
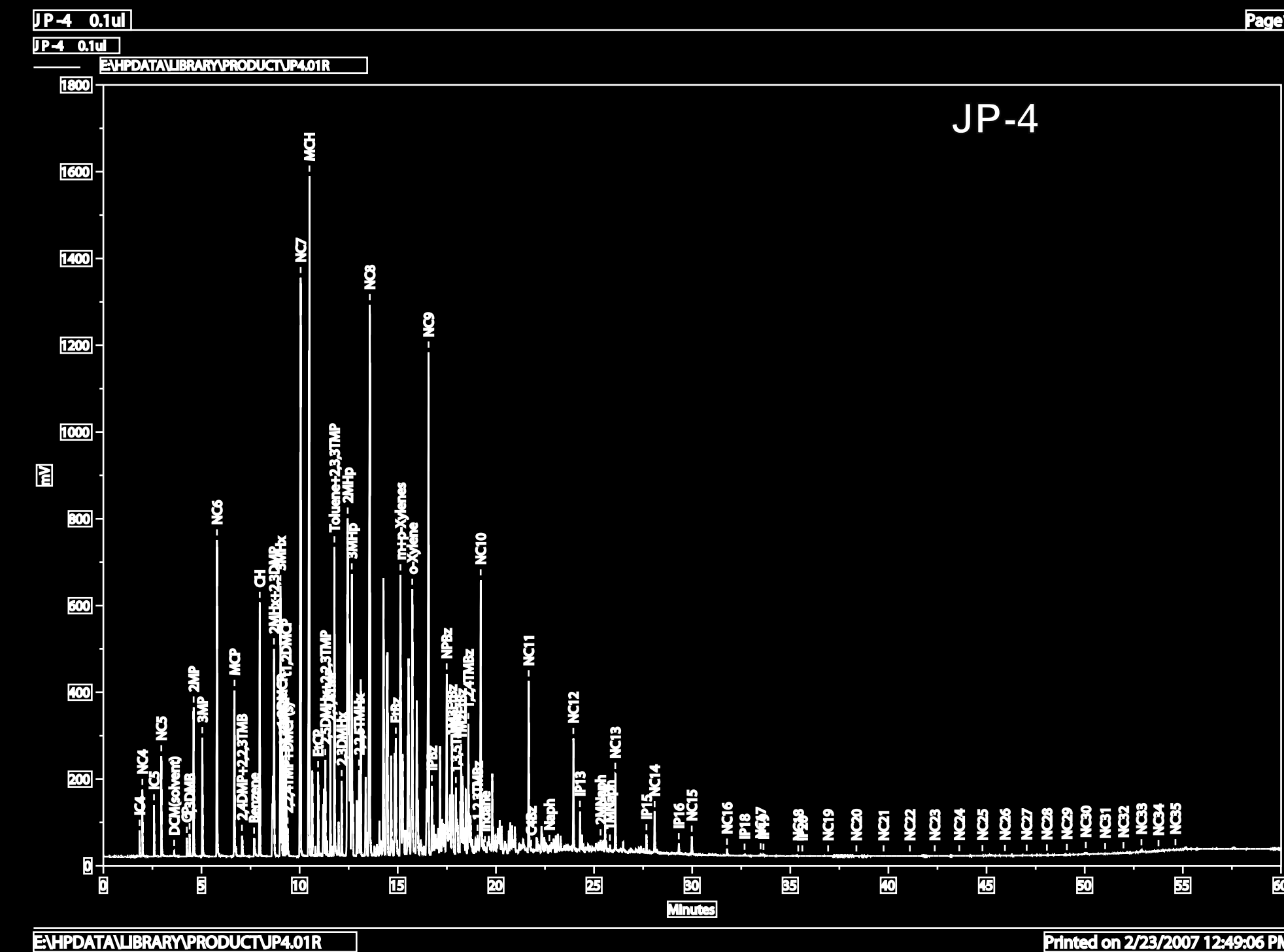
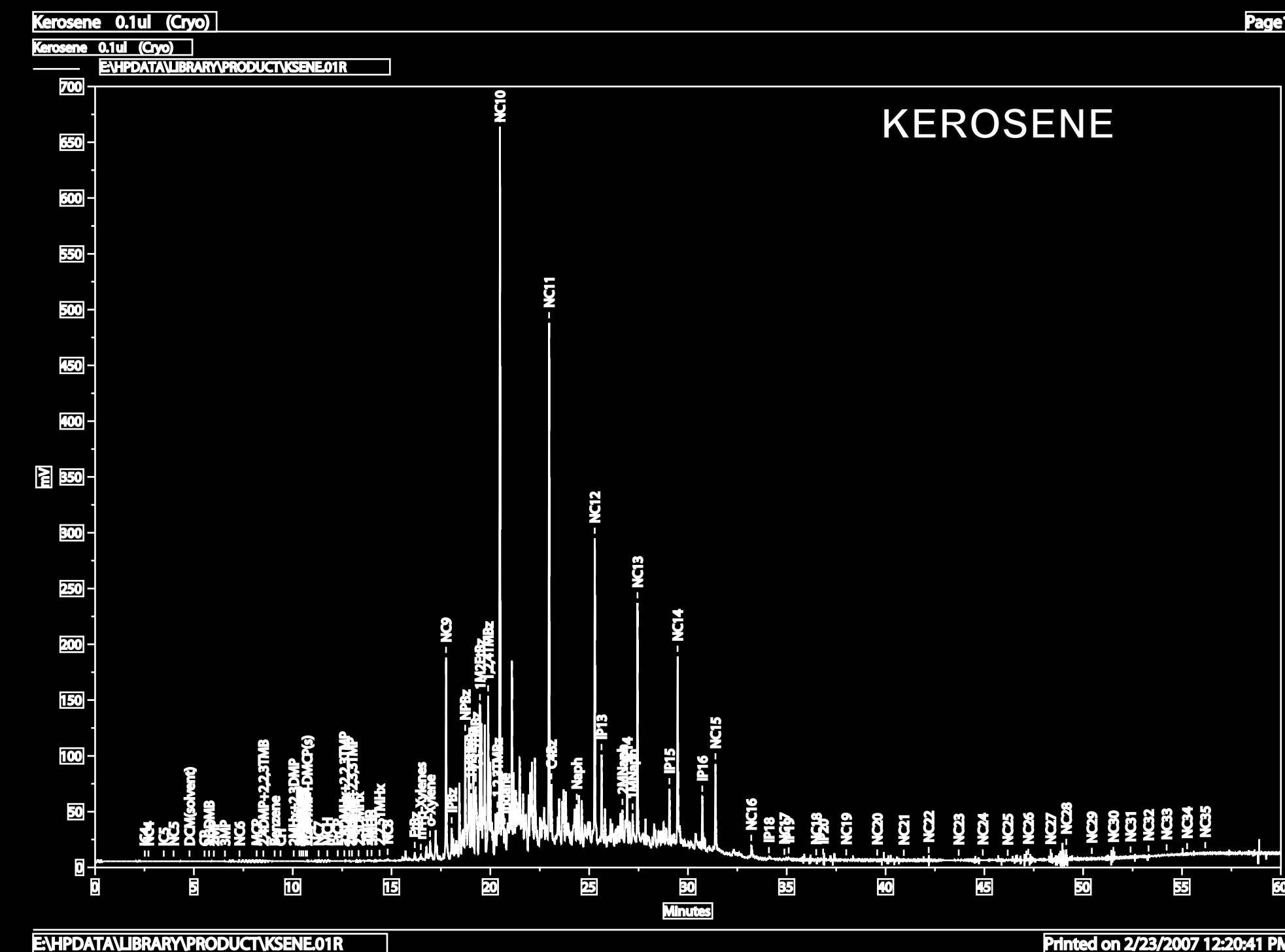
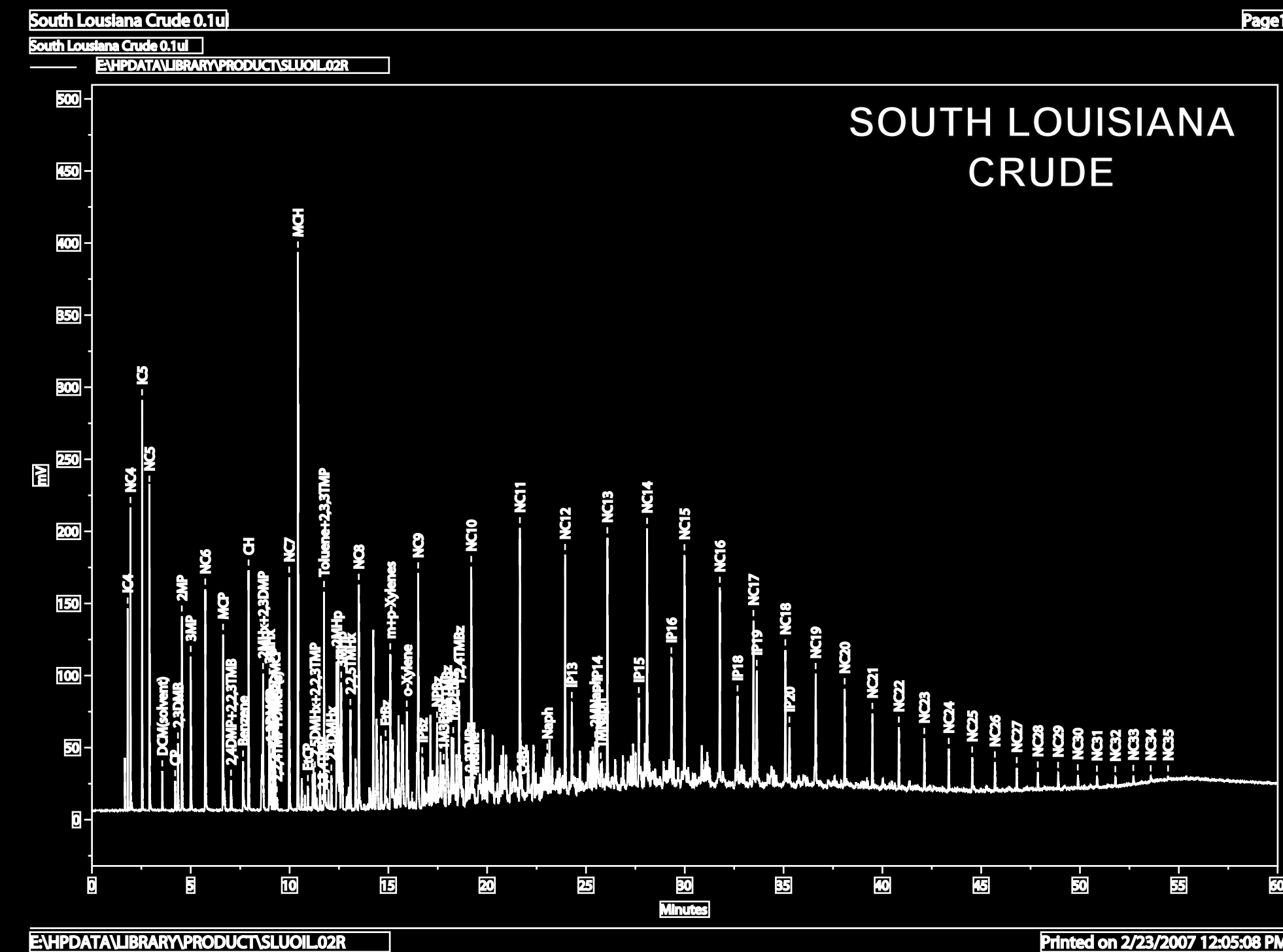
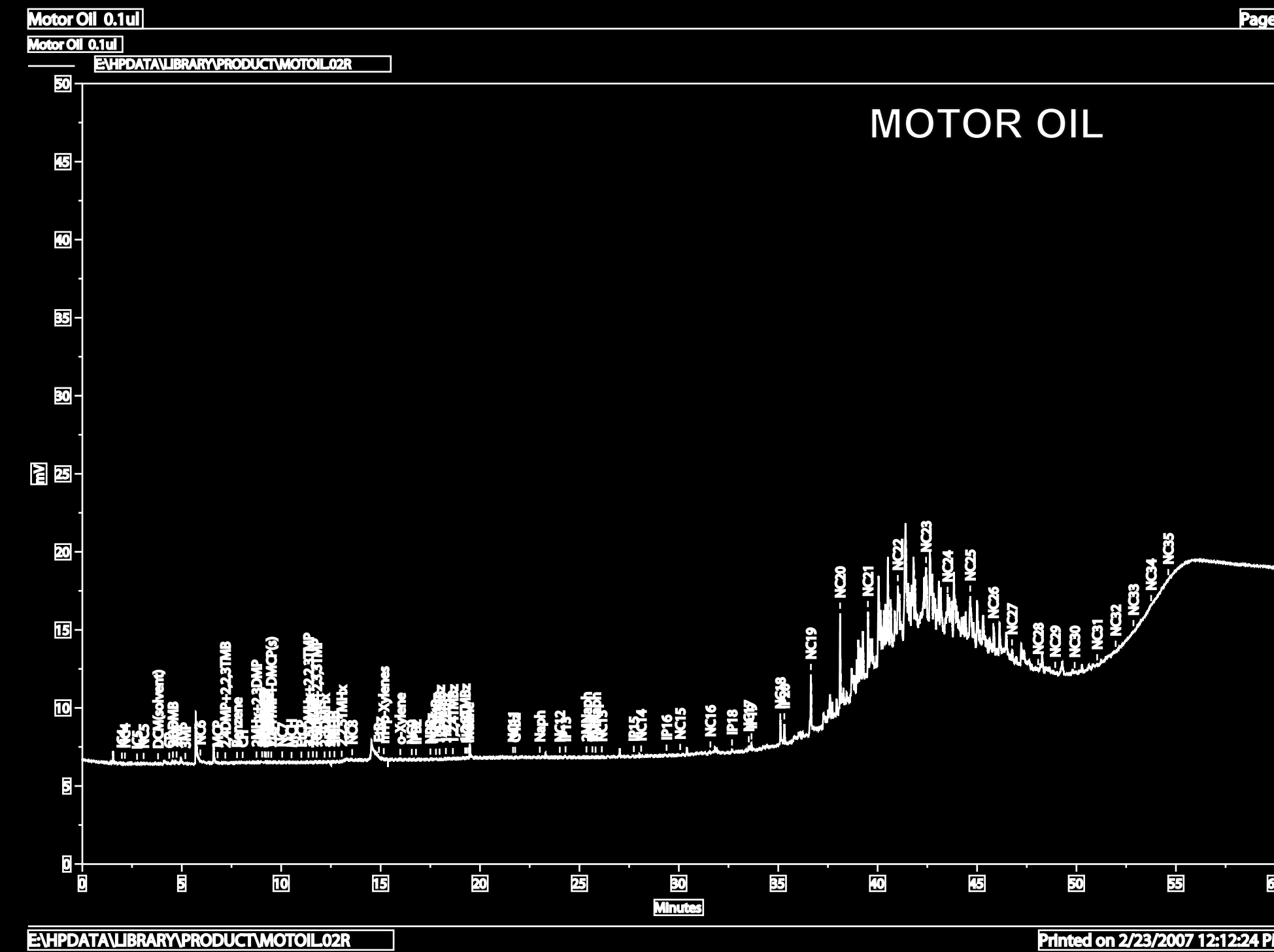
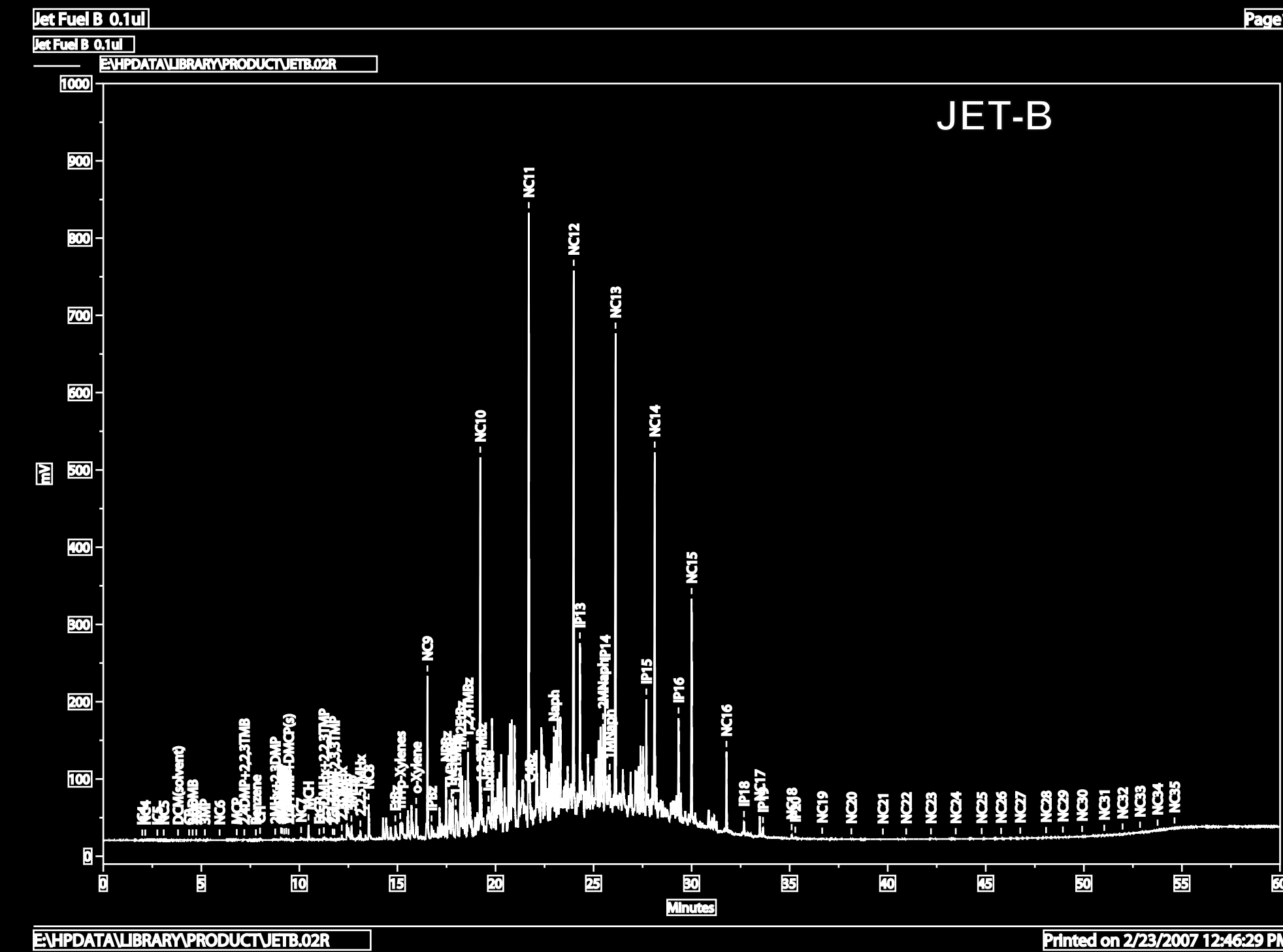
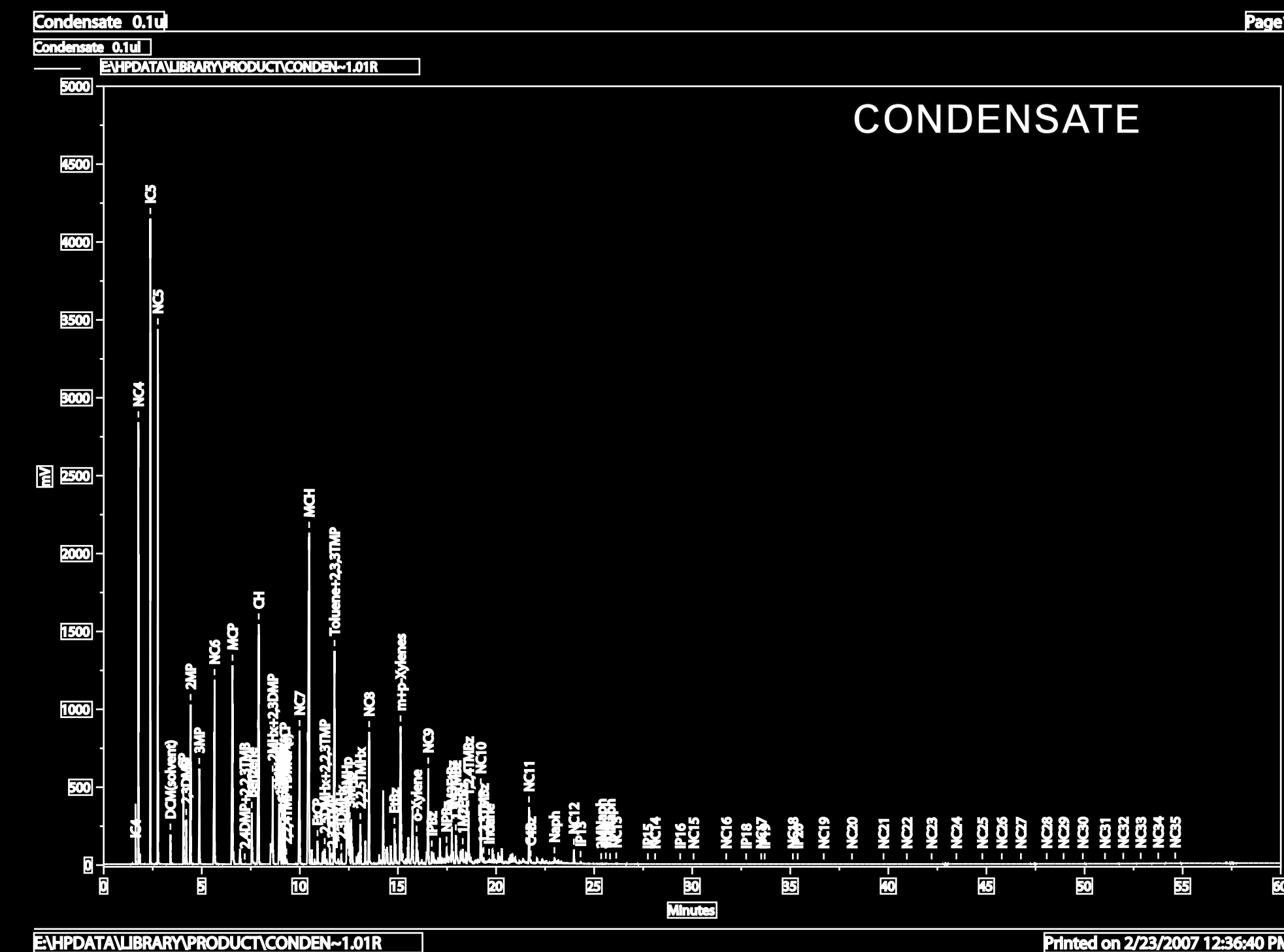
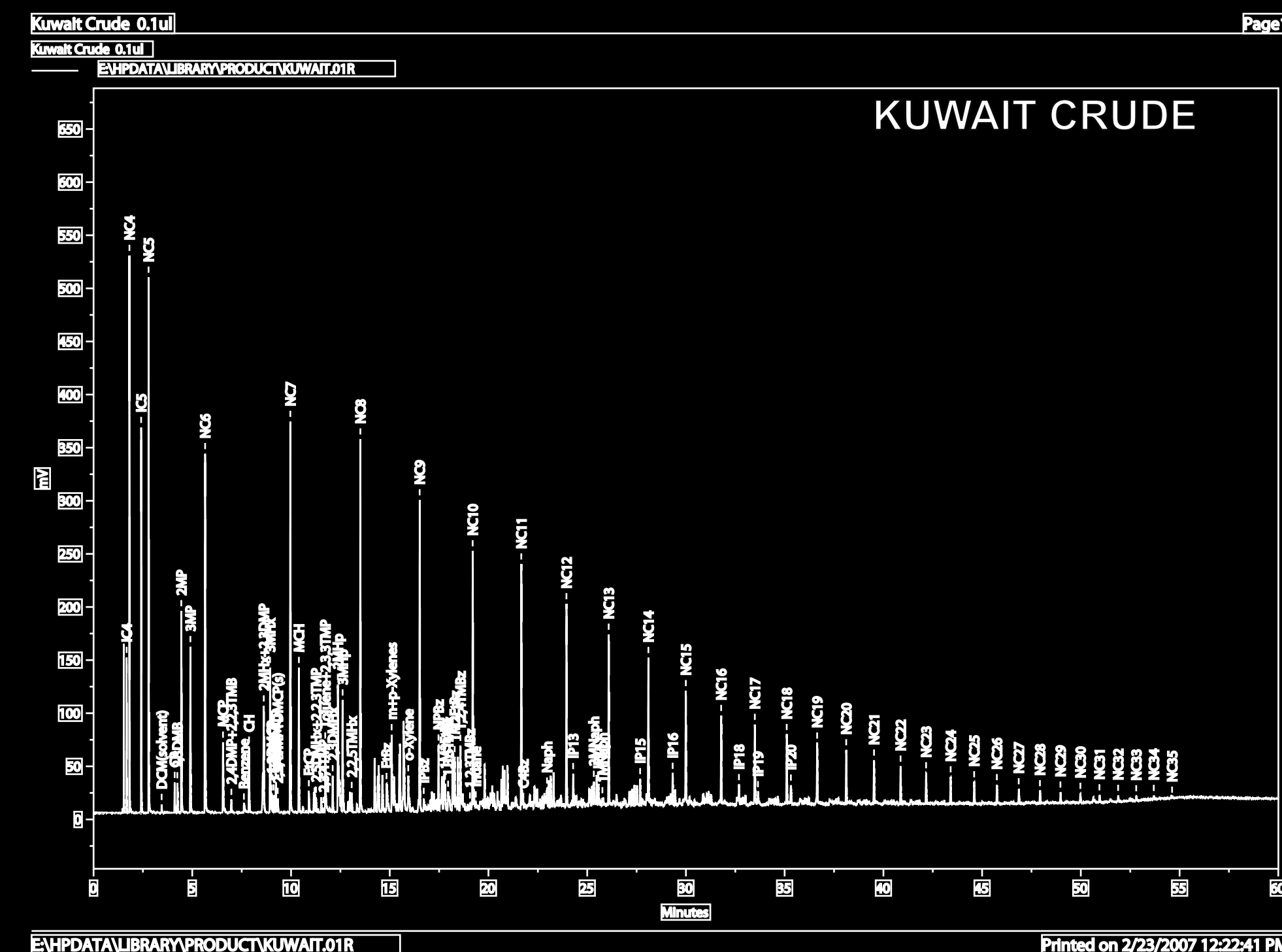
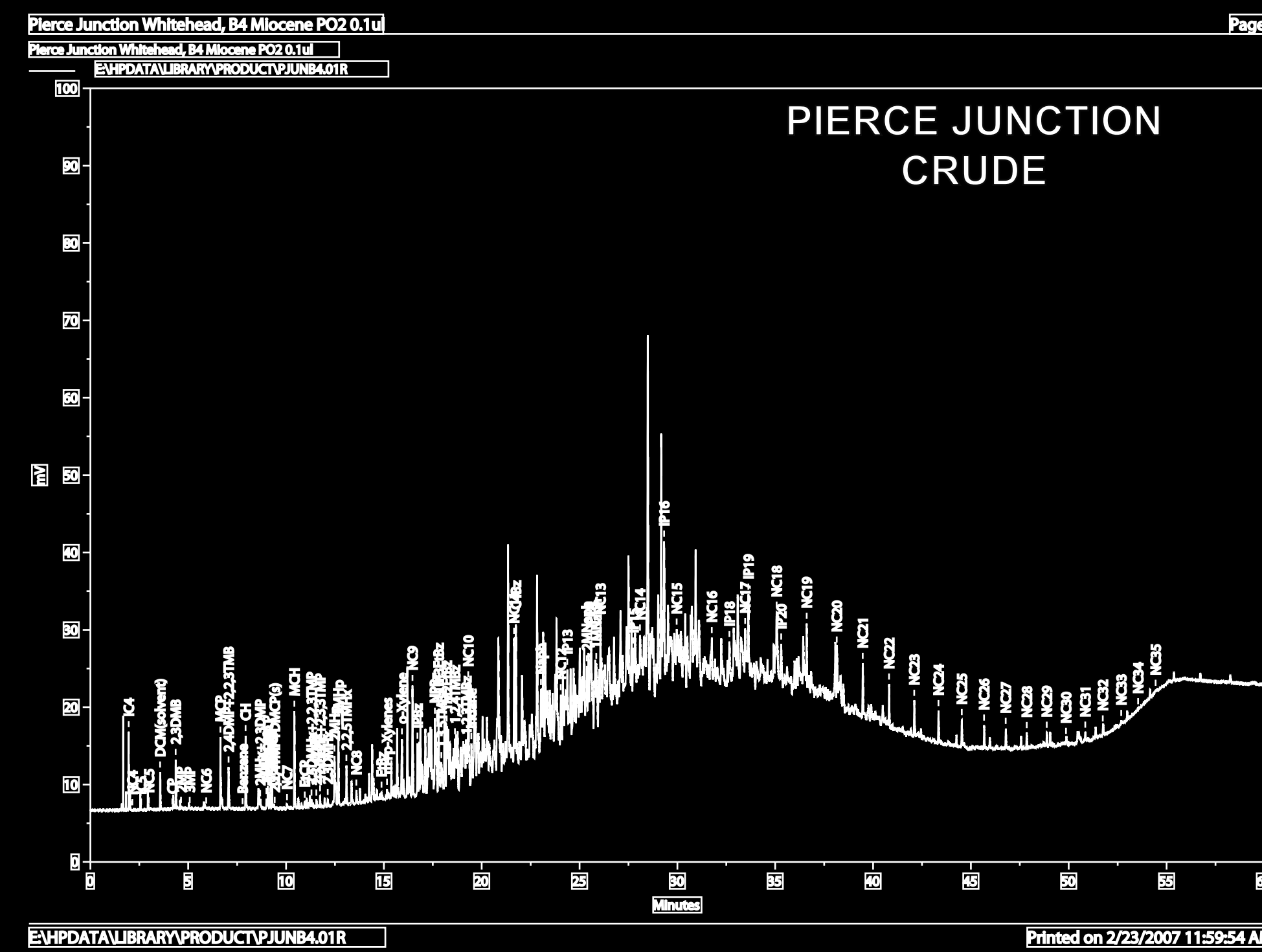
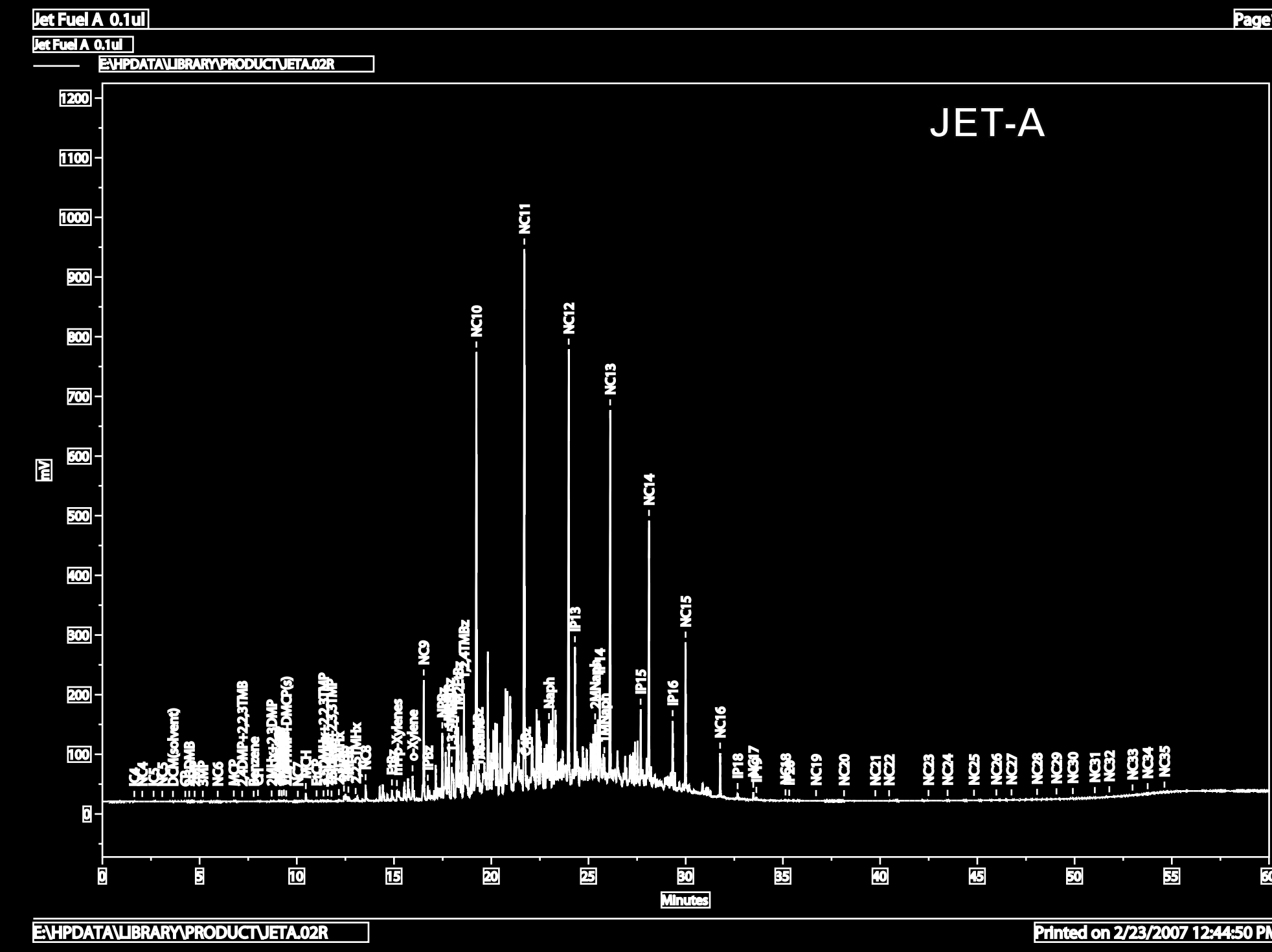
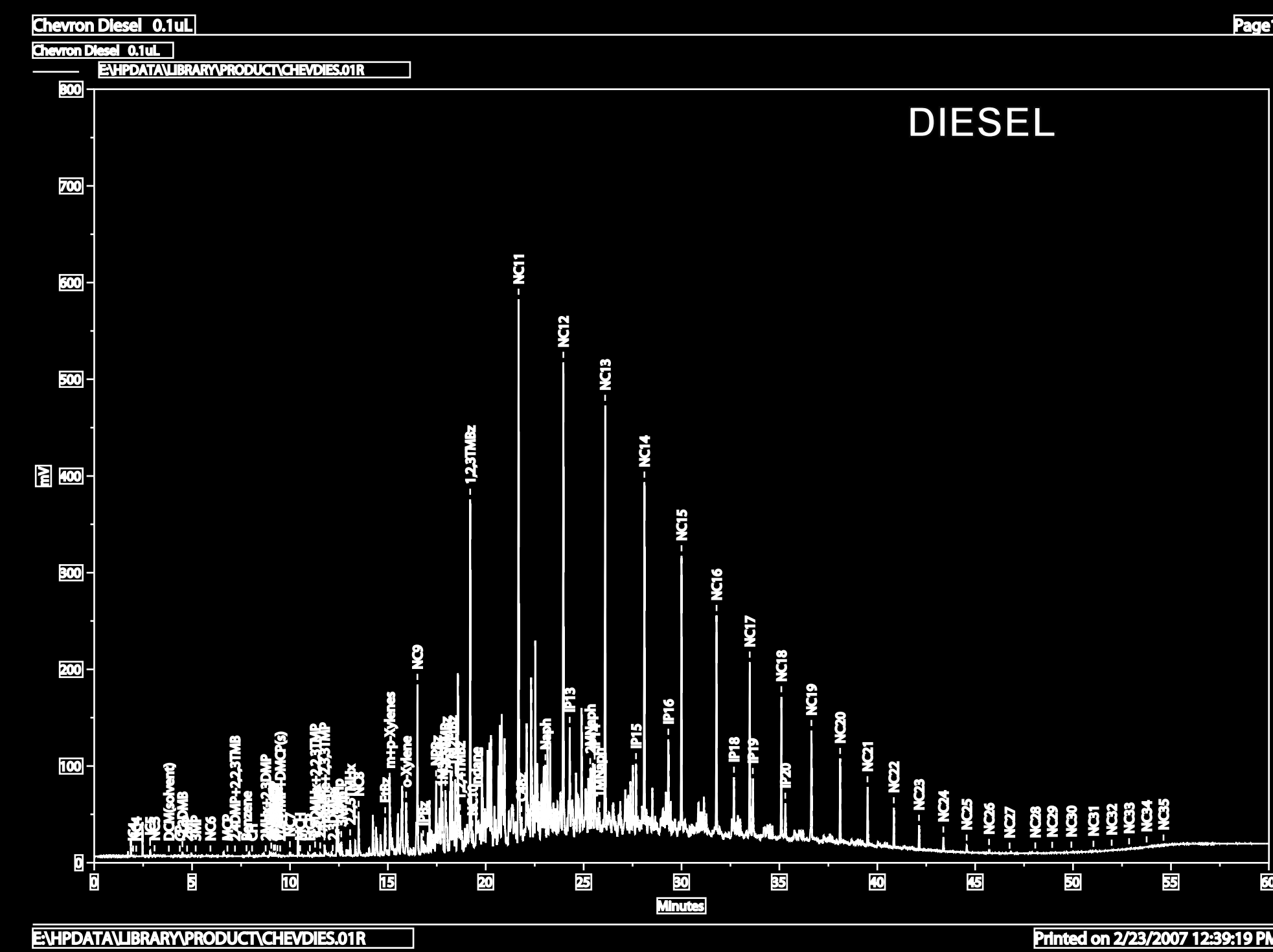
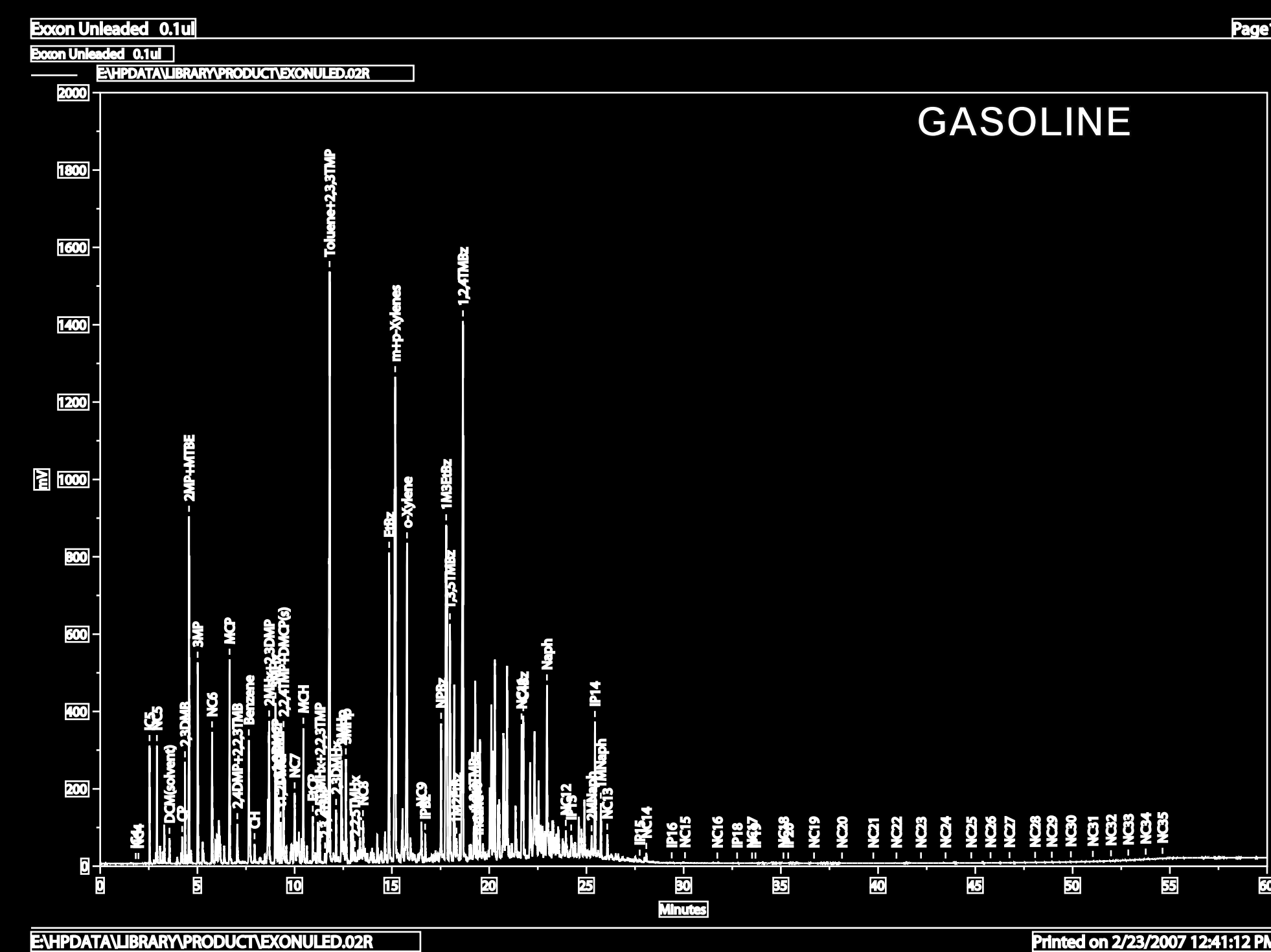
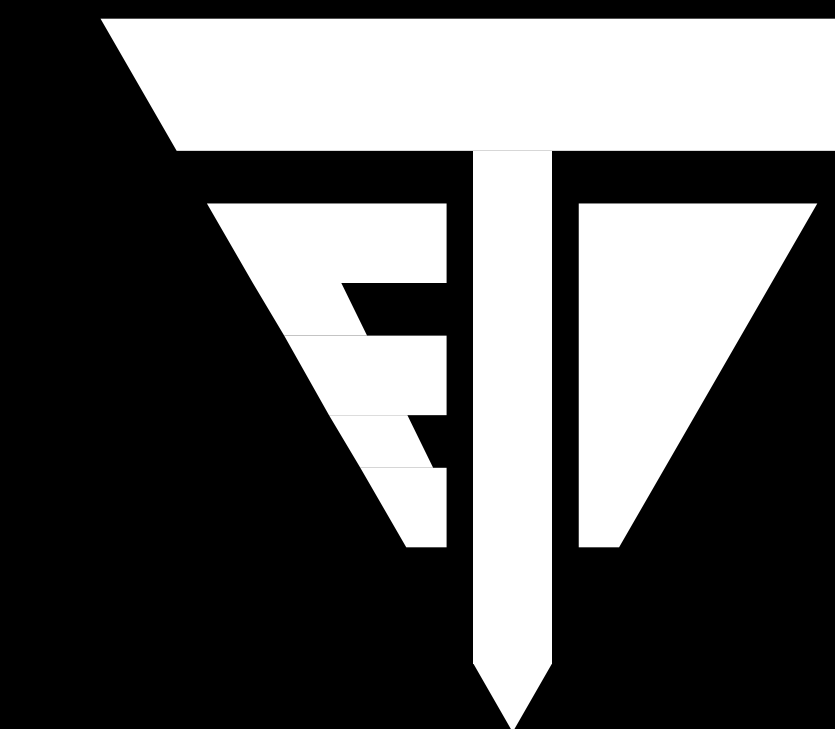




HIGH RESOLUTION CAPILLARY GAS CHROMATOGRAPH (Product Fingerprints)

High resolution capillary gas chromatography (HRCGC), a modification of ASTM method D-3328 is an excellent technique for "fingerprinting" various types of refined and crude petroleum products. Analyses of normal-C4 (butane) through normal-C30, which includes gasoline range hydrocarbons, and BTEX (benzene, toluene, ethylbenzene, m&p-xylenes and o-xylene) aromatic hydrocarbons are performed on a Hewlett Packard 5890 gas chromatograph equipped with a flame ionization detector (FID) with helium as a carrier gas. The column is a J&W Scientific DB-1 capillary column (0.5u, 0.5mmx30M). A volume equal to 0.1 µl is withdrawn from the sample bottle with a precision 1.0µl syringe. The GC run starts at an initial temperature of -120C which then ramps at 7 degrees per minute to a maximum temperature of 350oC. Chromatographic data is collected, integrated and quantified using "Chromperfect" chromatographic data acquisition and processing software running on a network computer. A plot of the chromatogram for each sample is generated along with retention times, integrated areas and quantitated concentrations for each identified component peak. Tables of data are exported for incorporation into reports.



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