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APPENDICES

Appendix

A-1 Calculation of Selectivity to Other Hydrocarbons

% Selectivity of gas fraction and liquid fraction

$$\% \text{ Selectivity of X} = \frac{\text{concentration of X} \times 100}{\text{total concentration of fractions}}$$

$$\text{Concentration of X} = \frac{b \times c}{a}$$

a = Peak area of X in standard gas or liquid fraction

b = % molar of X in standard gas or liquid fraction

c = Peak area of X in sample products

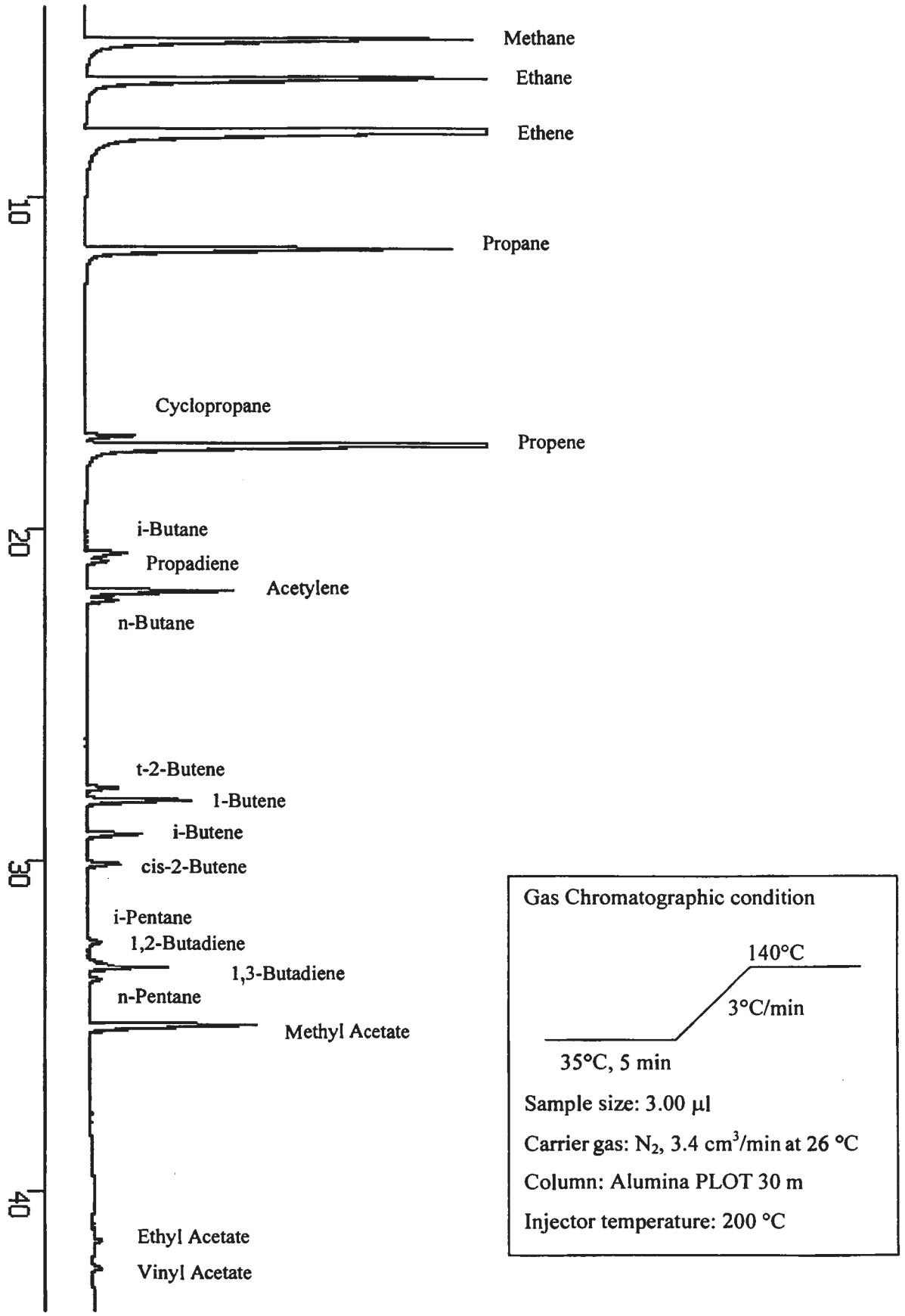

Figure A-1 Gas chromatogram of standard mixture gas.

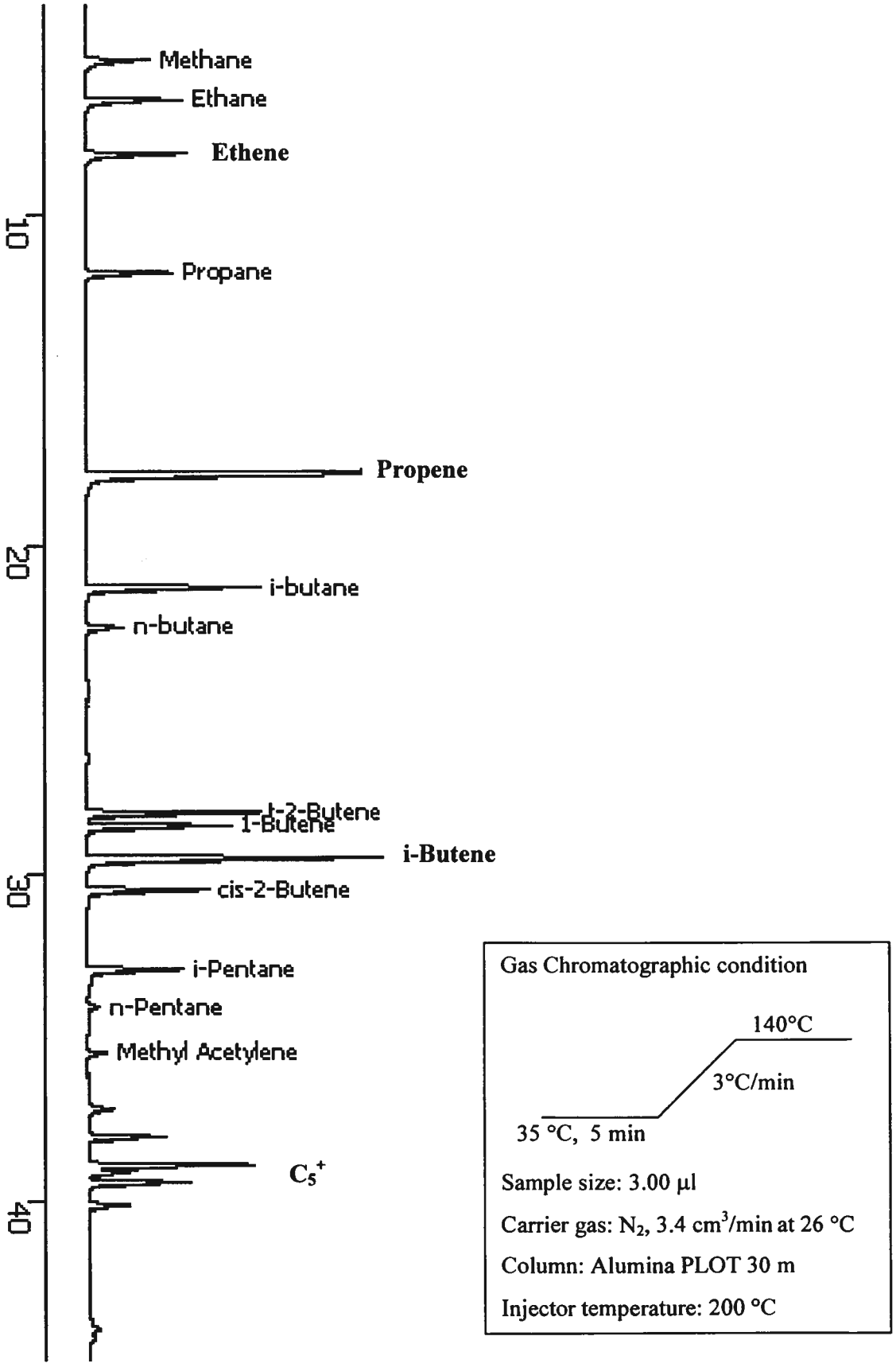

Figure A-2 Gas chromatogram of gas product obtained from catalytic cracking of PP over (Si/Al ratio = 20) at 400°C

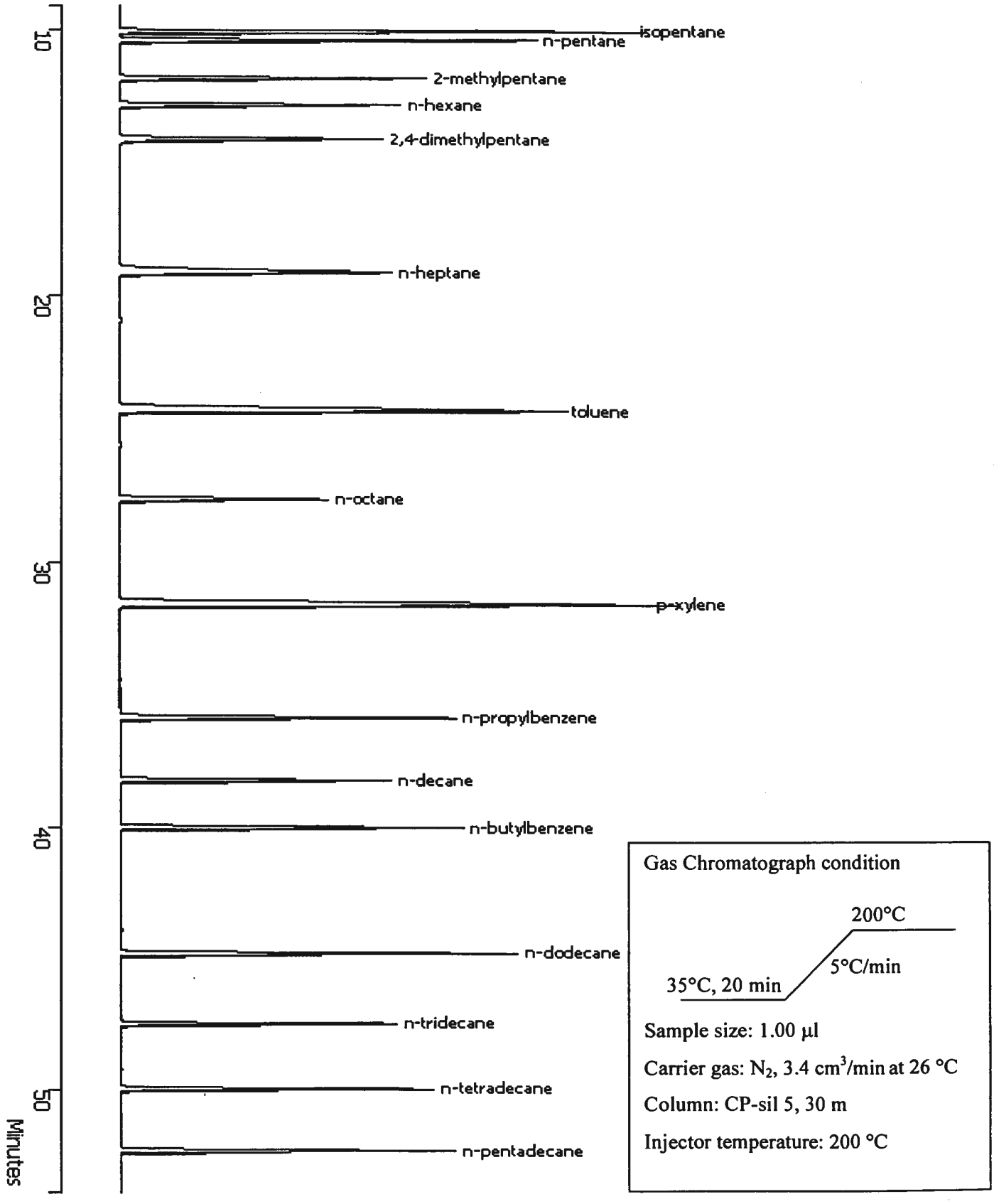

Figure A-3 Gas chromatogram of standard gasoline (SUPELCO).

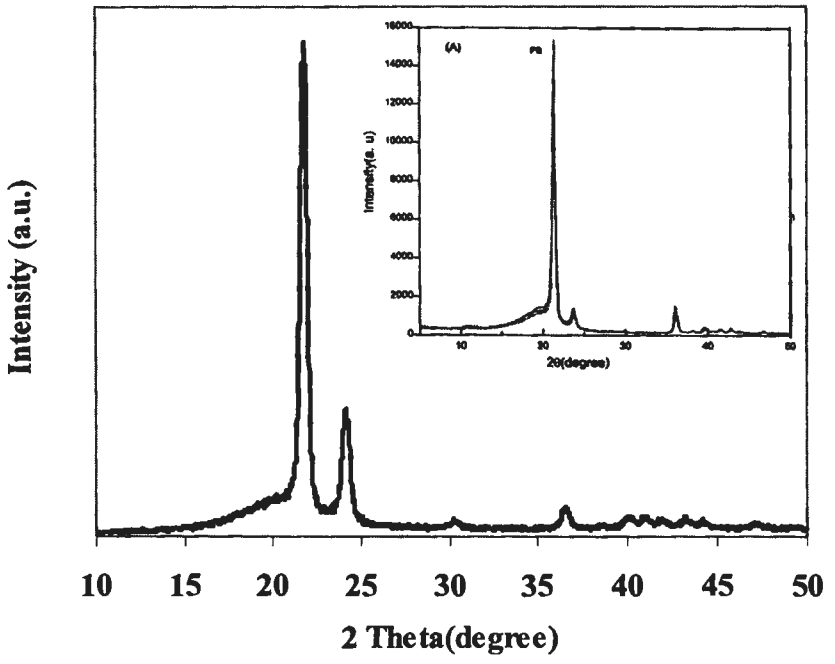

Figure A-4 XRD patternk of plastic waste. Insert shows the XRD patterns for HDPE.

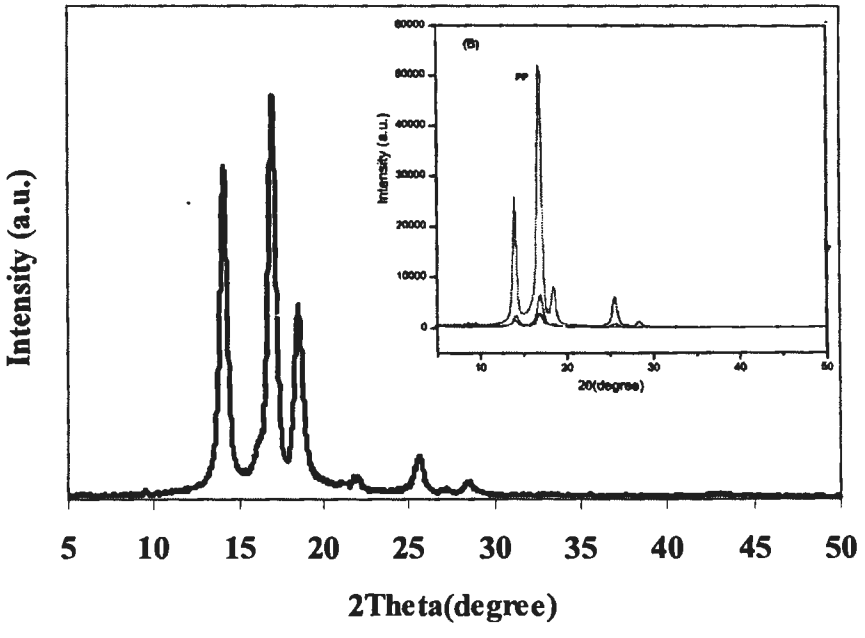

Figure A-5 XRD pattern of plastic waste. Insert shows the XRD patterns for PP.

VITA

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