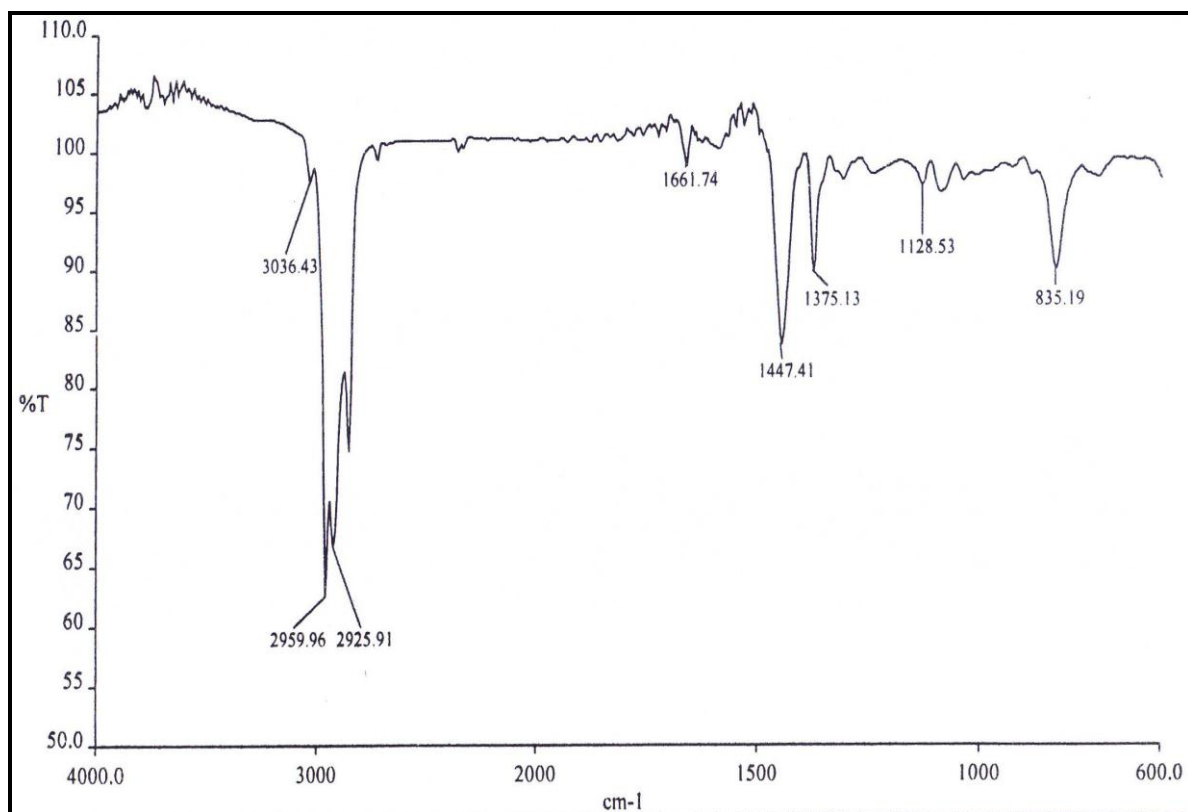
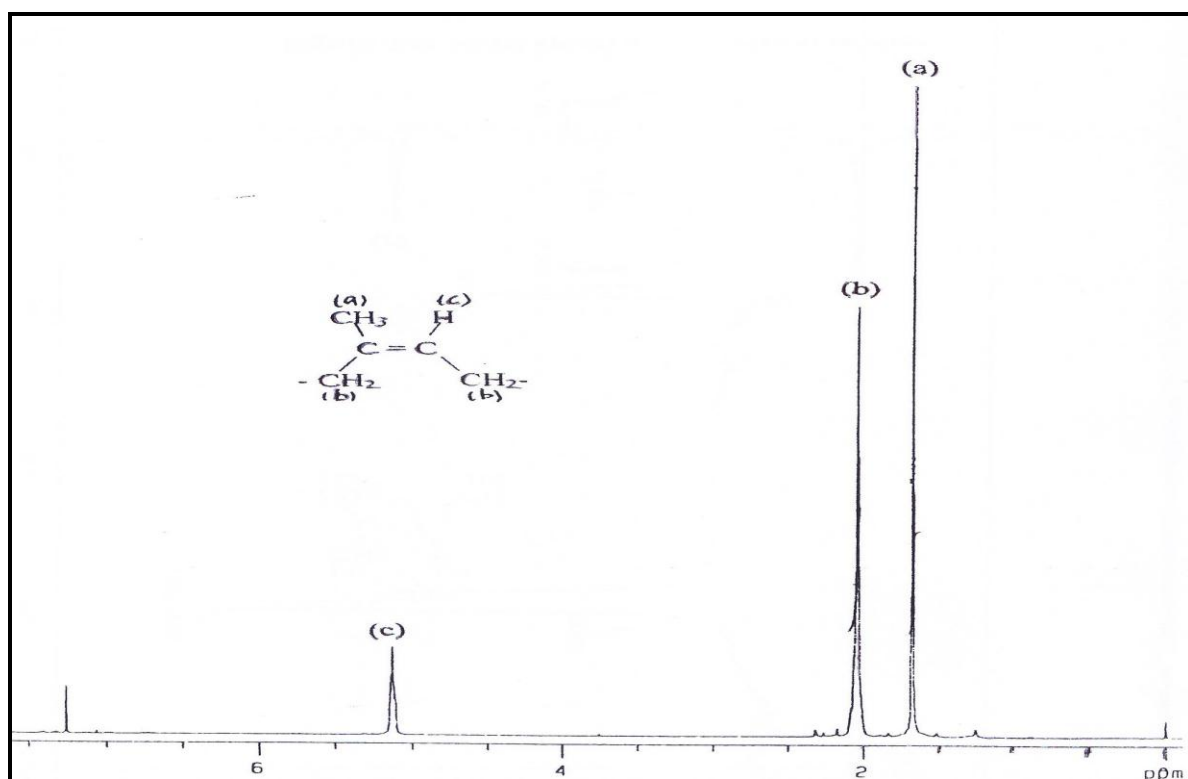


## Appendix A: Natural Rubber

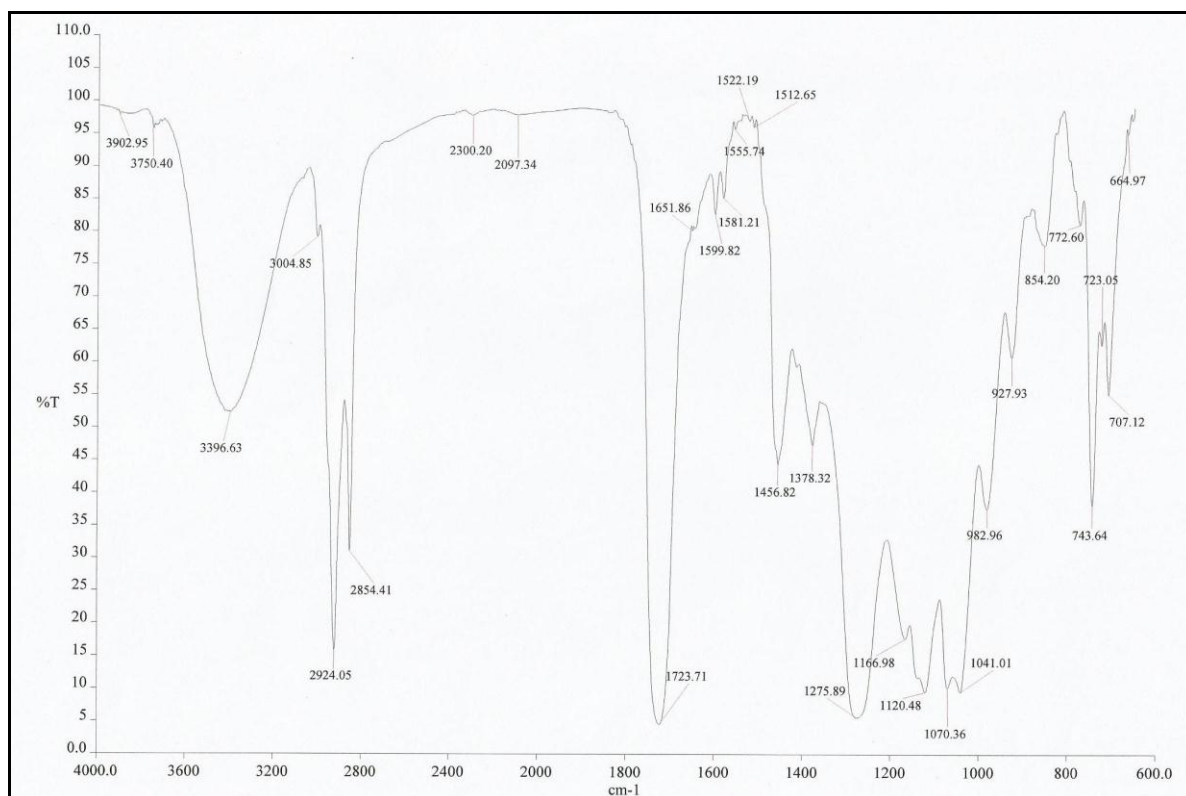


**Figure 1:** FTIR spectrum of Natural rubber

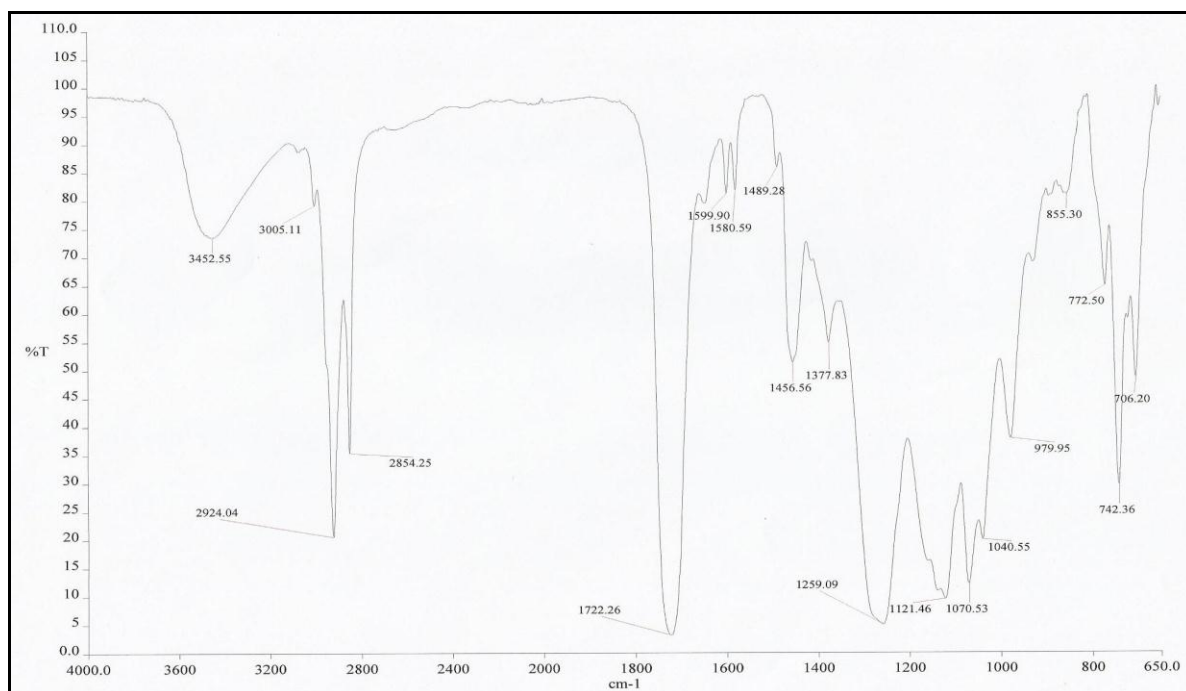


**Figure 2:** NMR spectrum of natural rubber

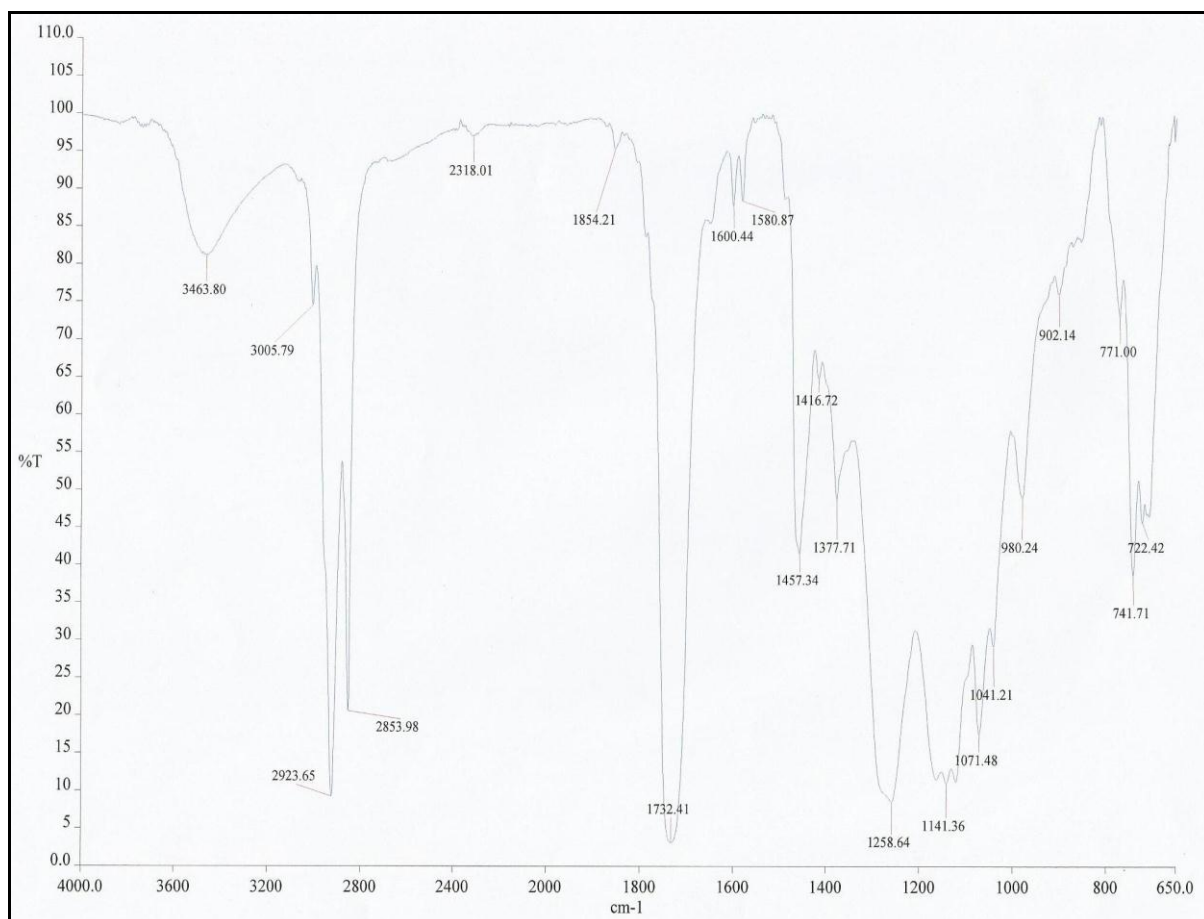
## Appendix B: FTIR spectra of fusion cook alkyds



**Figure 1:** FTIR spectra of Alk-45

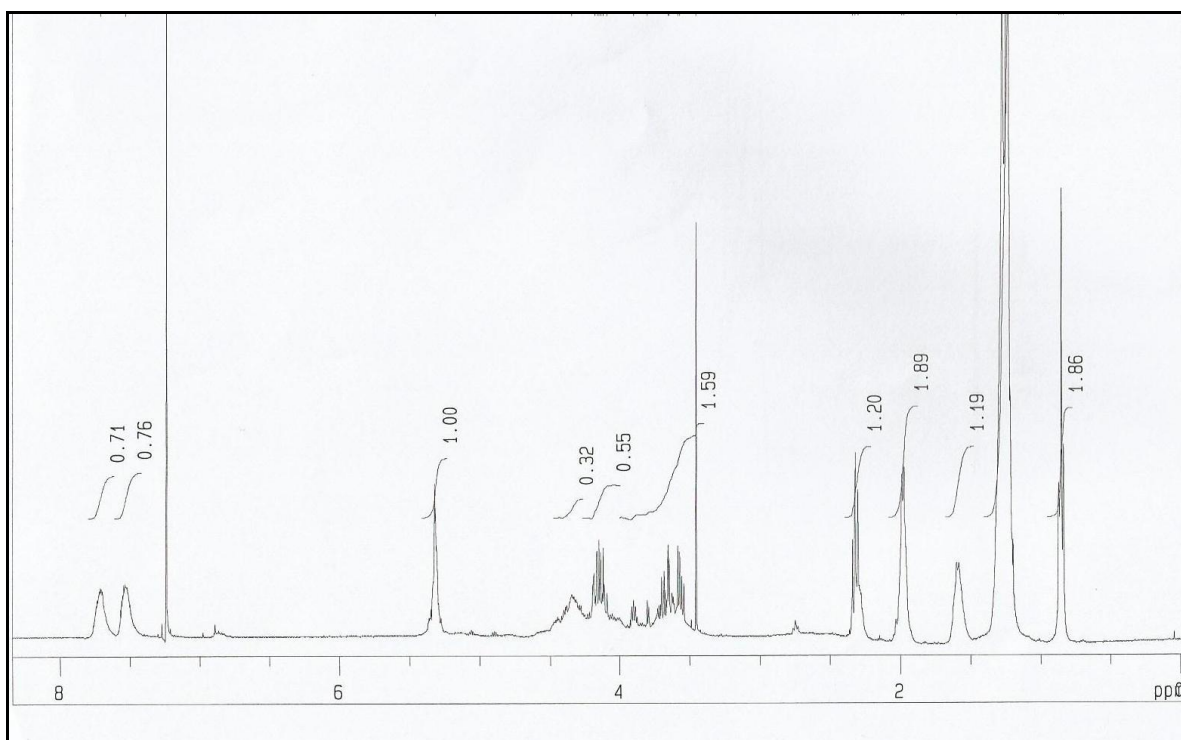


**Figure 2:** FTIR spectra of Alk-47

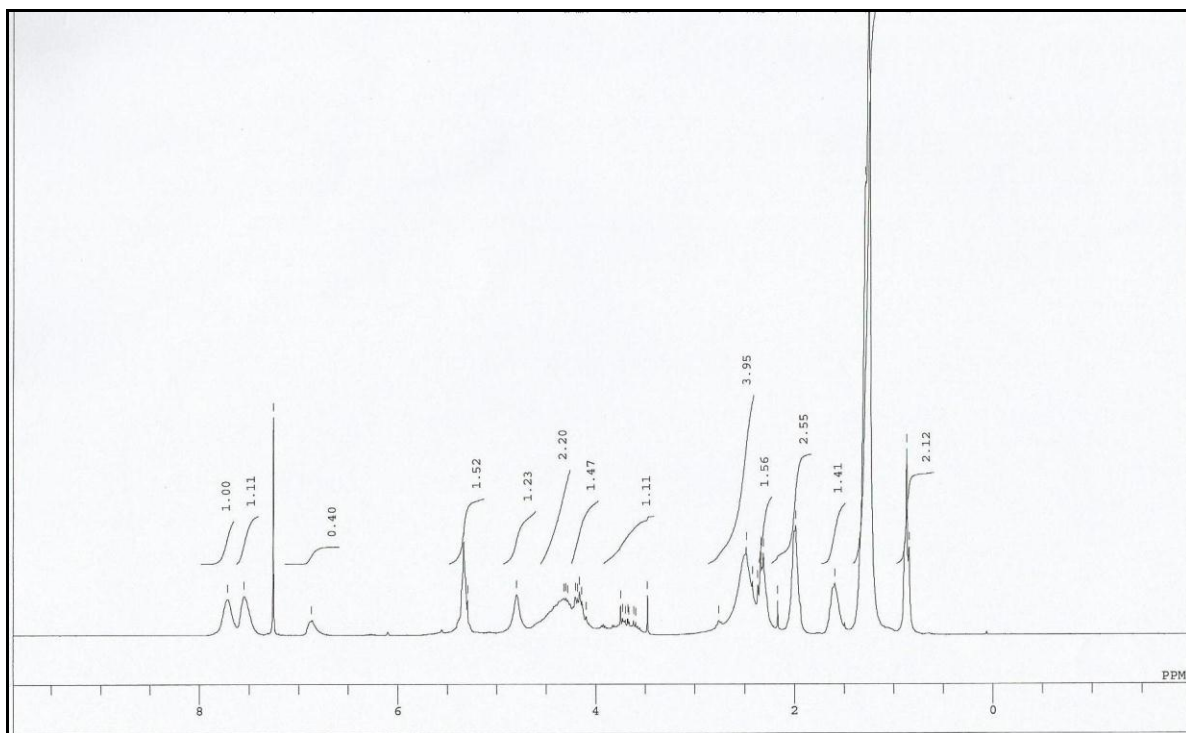


**Figure 3:** FTIR spectra of Alk-65

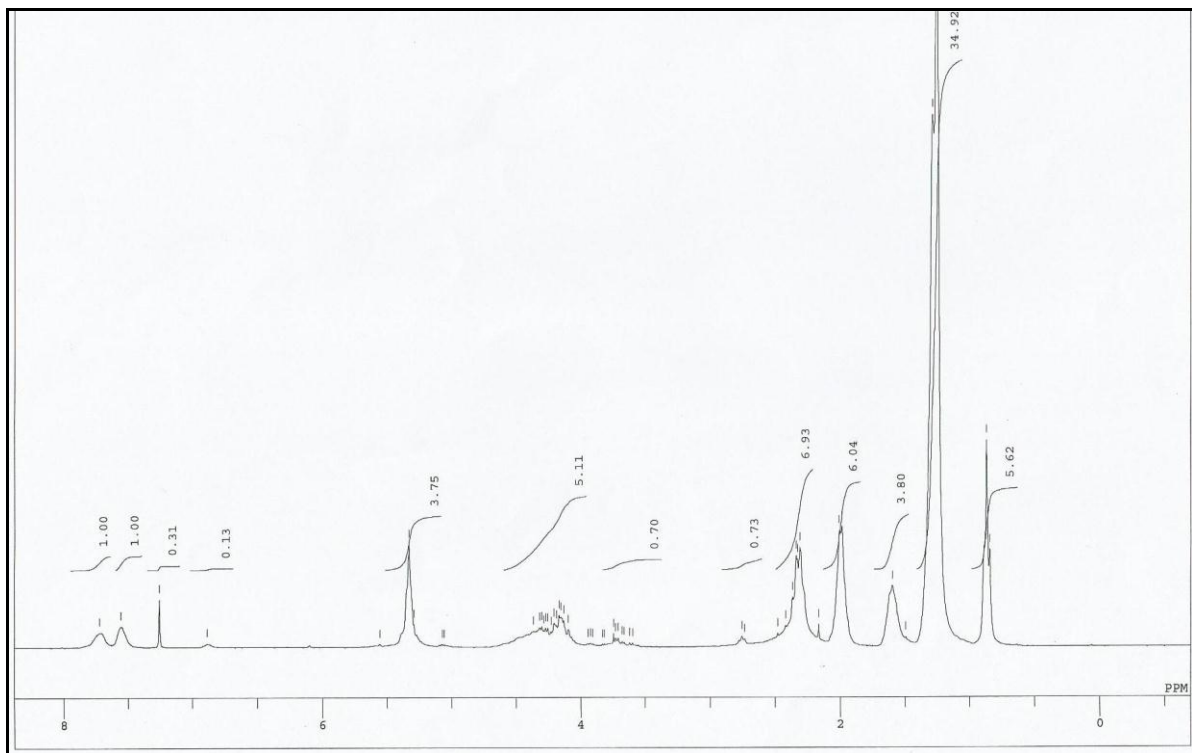
## Appendix C: NMR spectra of fusion cook alkyl



**Figure 1:** NMR spectra of Alk-45

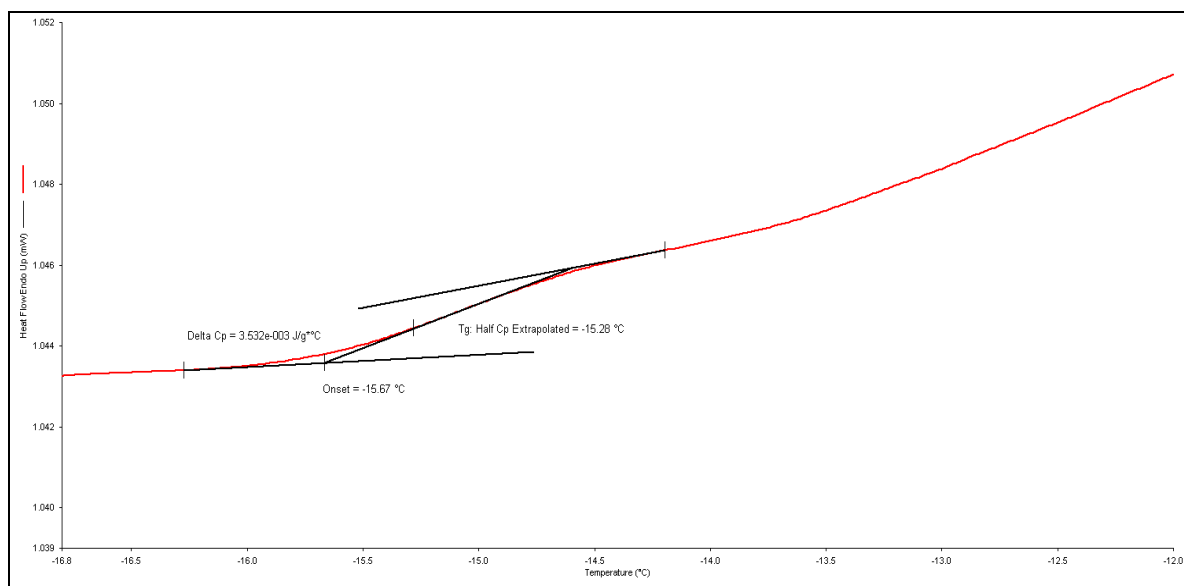


**Figure 2:** NMR spectra of Alk-47

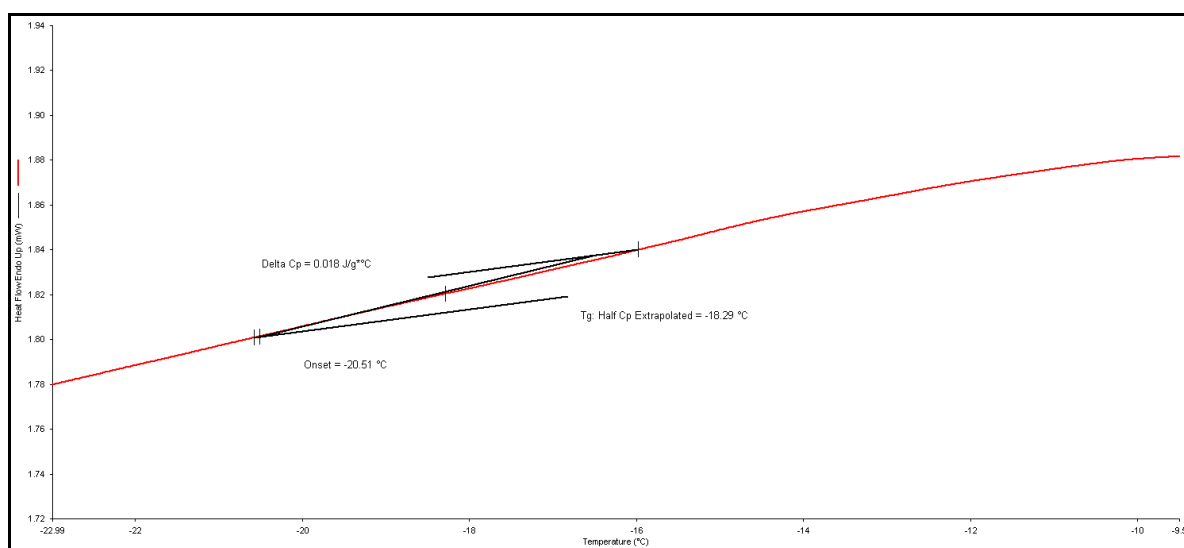


**Figure 3:** NMR spectra of Alk-65

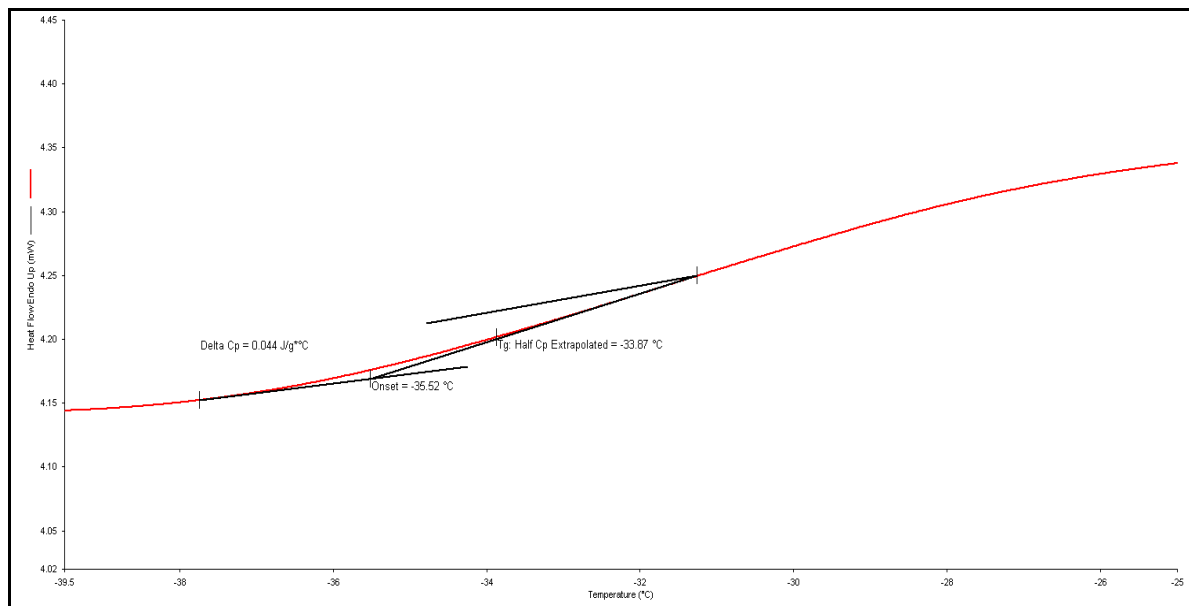
## Appendix D:DSC thermograms of fusion cook alkyd



**Figure 1:** DSC trace of Alk-45

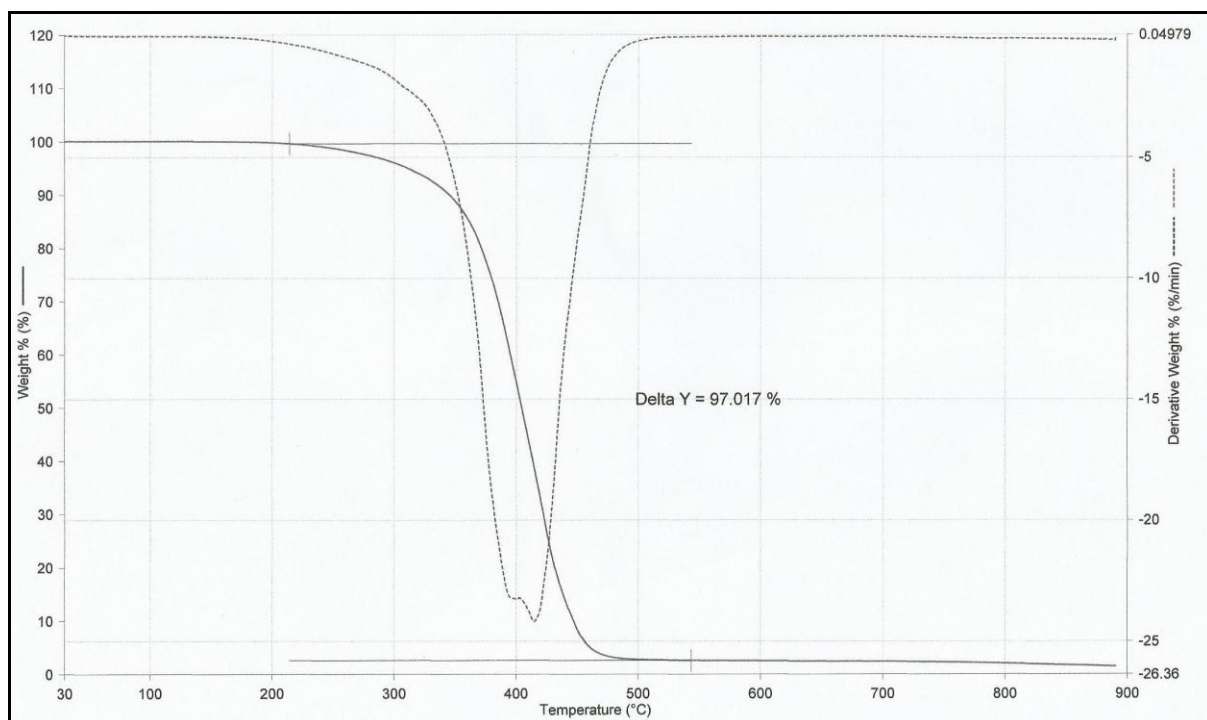


**Figure 2:** DSC trace of Alk-47

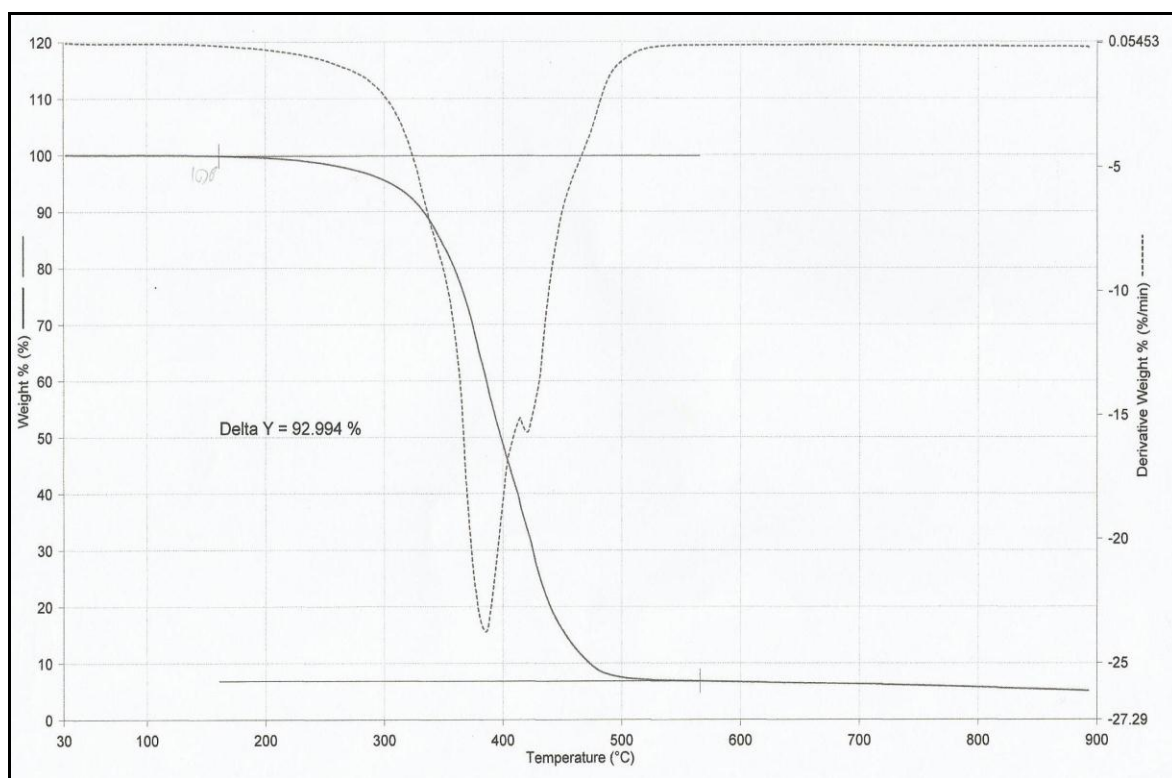


**Figure 3:** DSC trace of Alk-65

## Appendix E: TGA thermograms of fusion cook alkyd

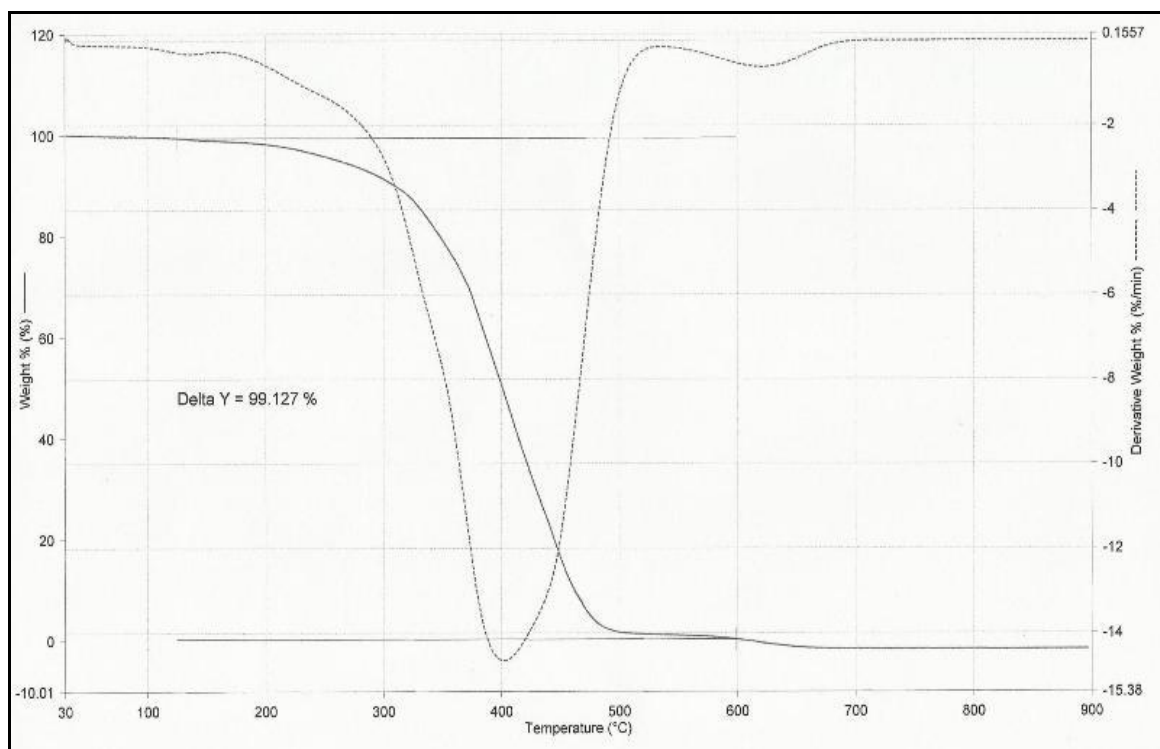


**Figure 1:** TGA thermogram of Alk-45



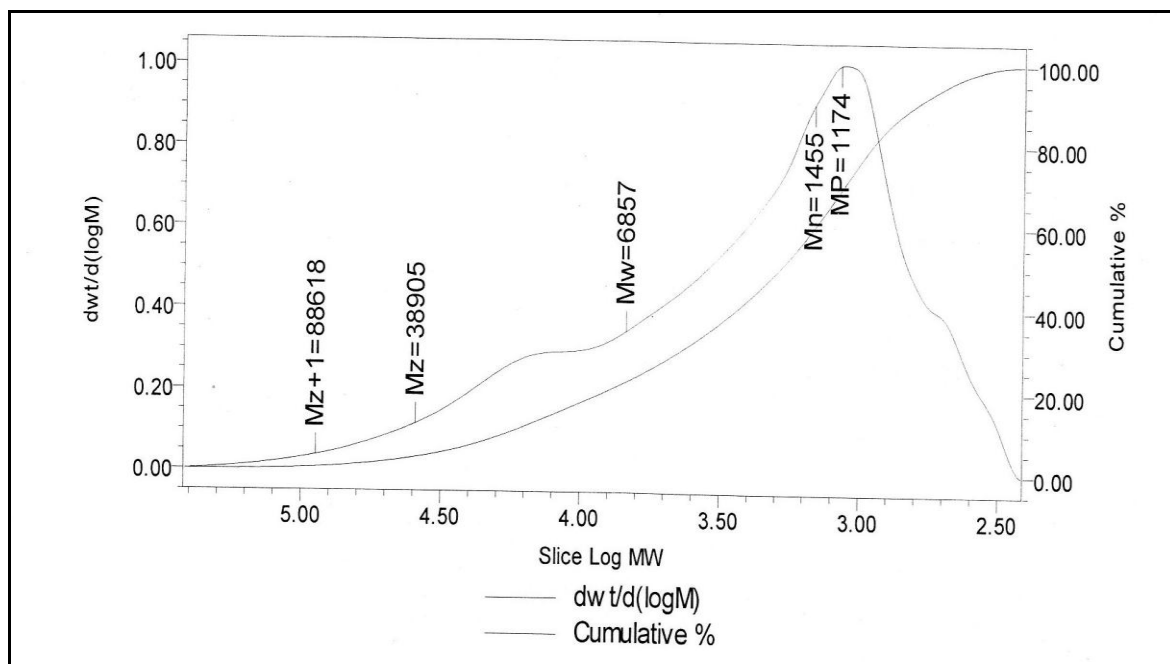
**Figure 2:** TGA thermogram of Alk-47



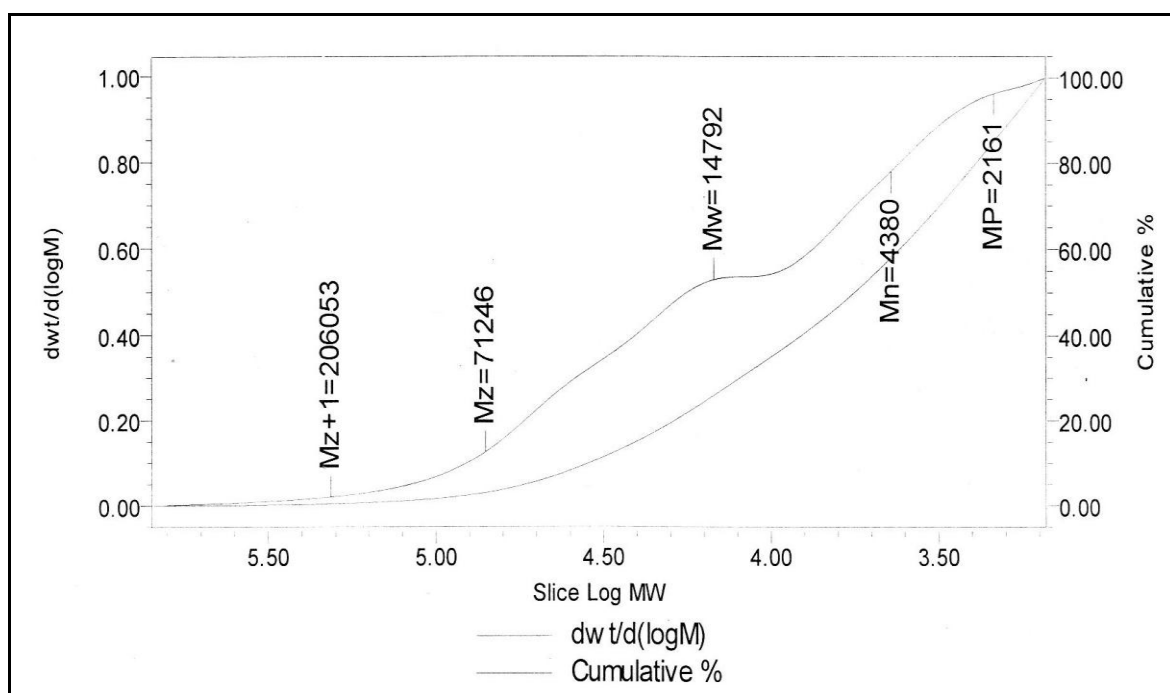


**Figure 3:** TGA thermogram of Alk-65

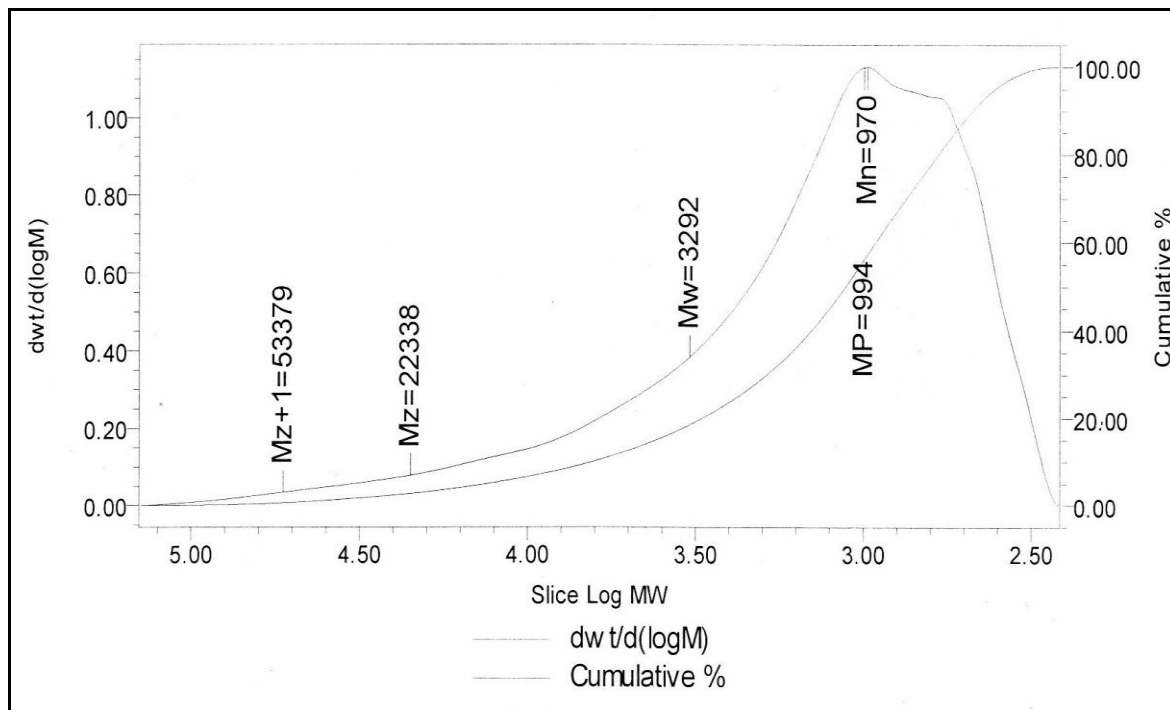
## Appendix F: GPC chromatograms of fusion cook alkyd



**Figure 1:** GPC chromatogram of Alk-45

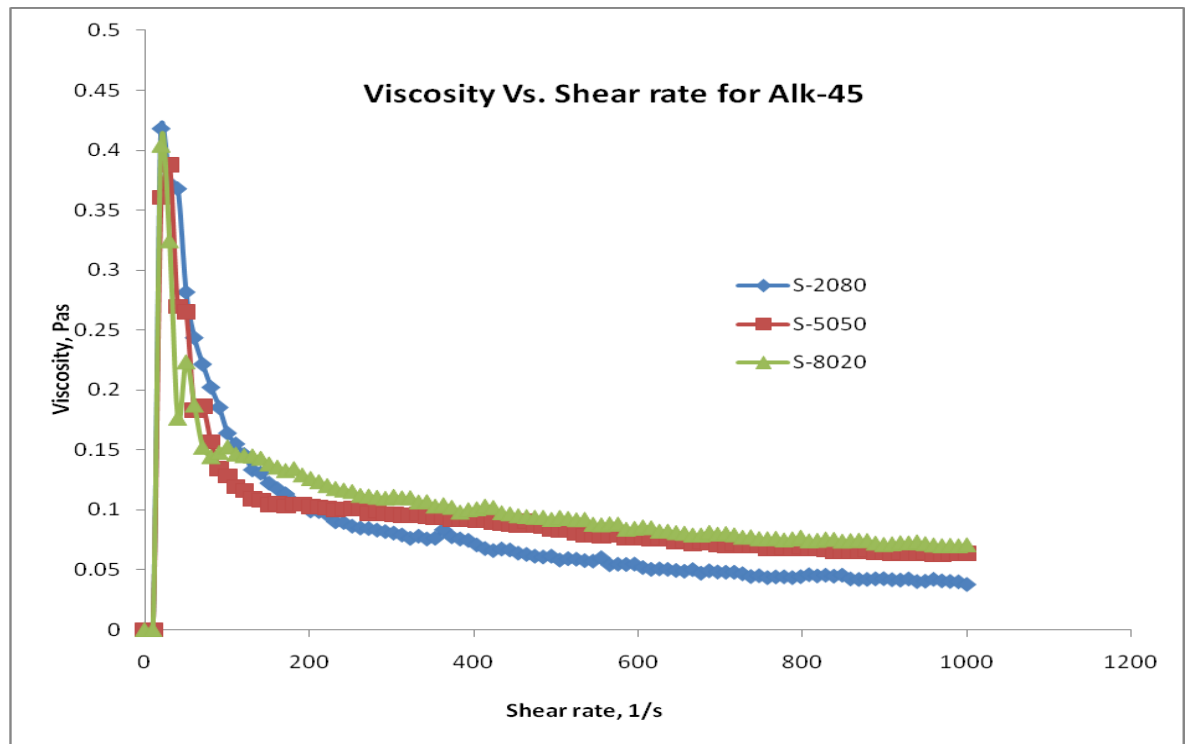


**Figure 2:** GPC chromatogram of Alk-47

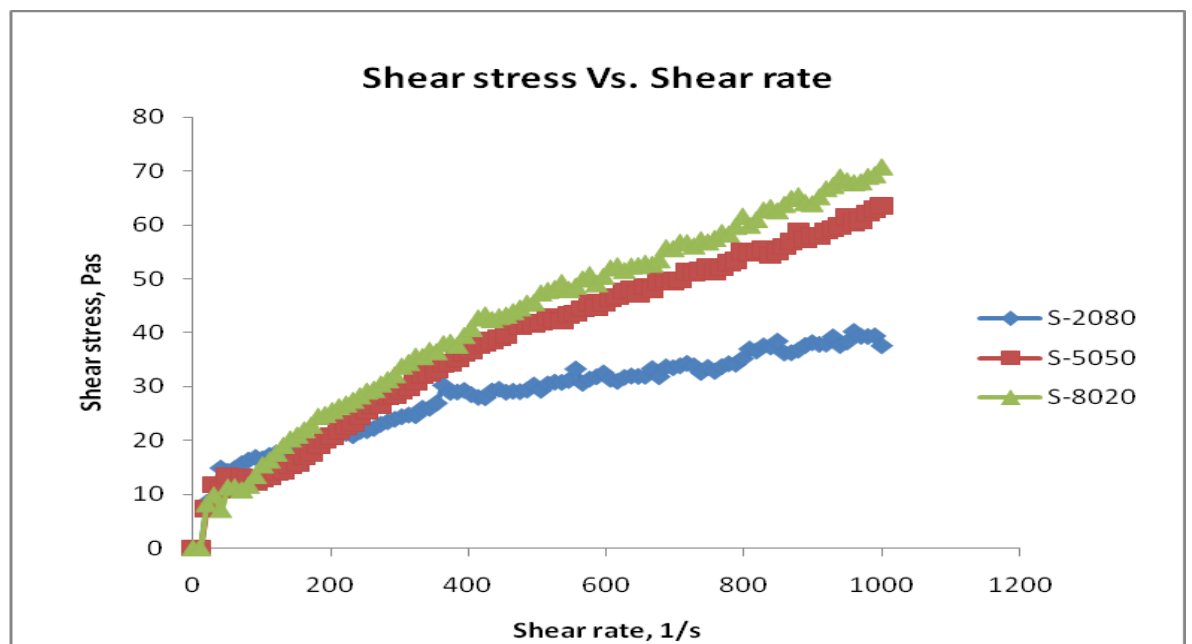


**Figure 3:** GPC chromatogram of Alk-65

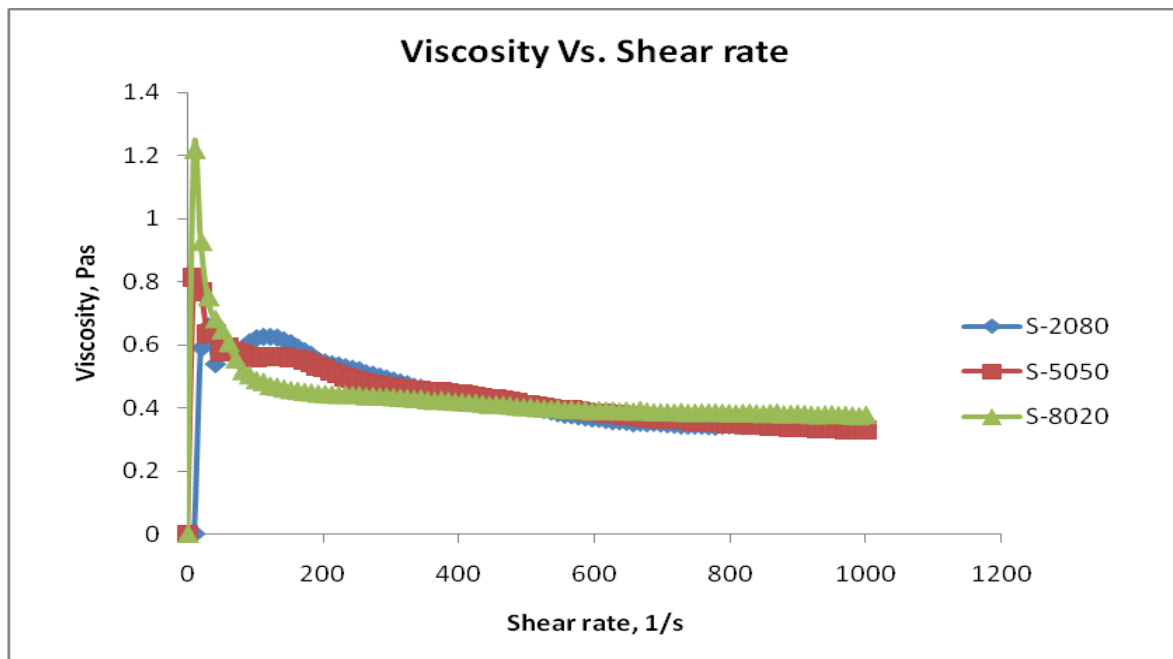
## Appendix G: Viscosity, shear rate and shear stress profile of alkyd emulsion



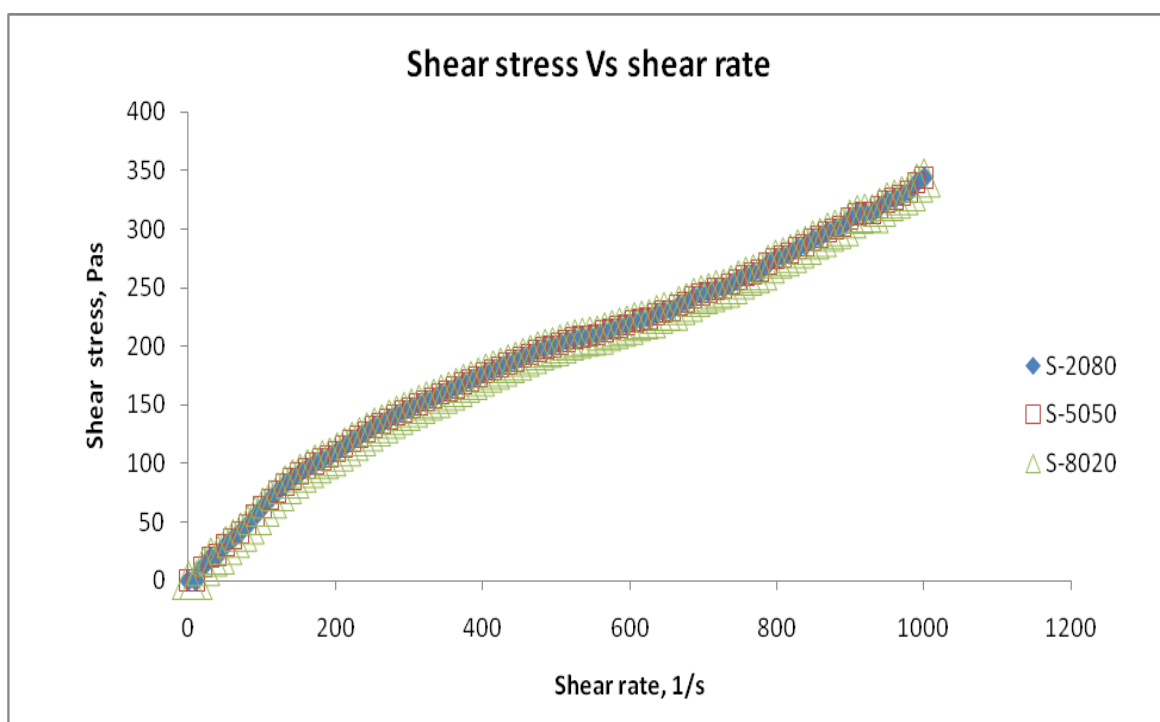
**Figure 1:** Viscosity Vs Shear rate for Alk-45 emulsion at different surfactant ratio



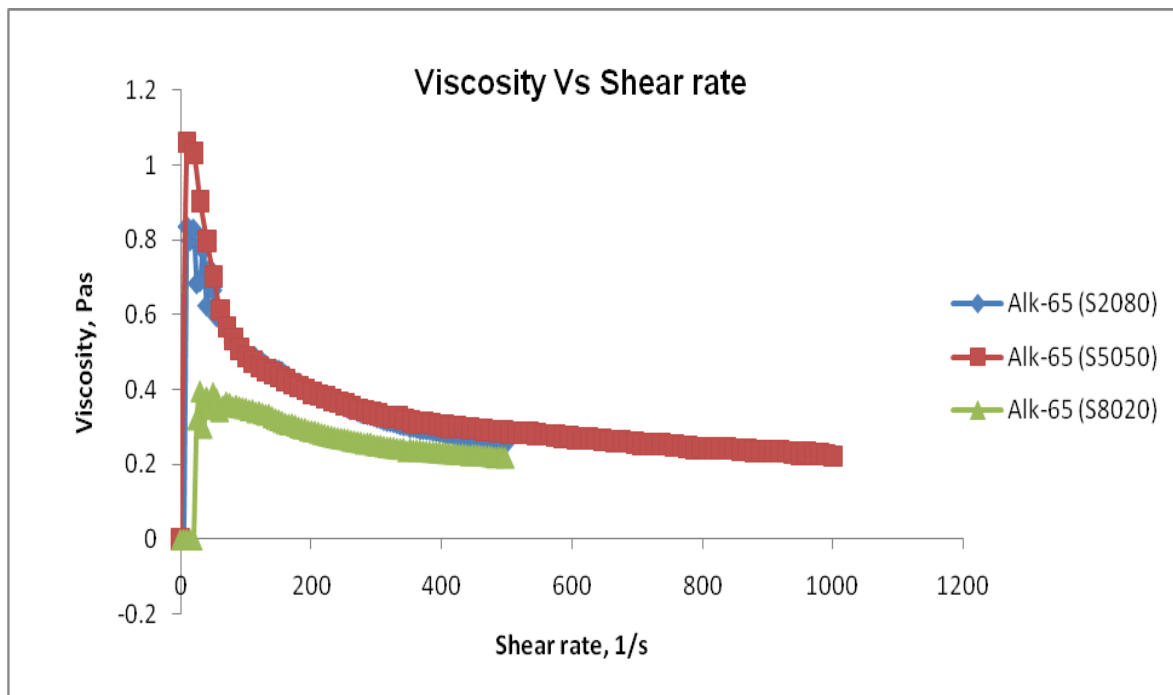
**Figure 2:** Shear stress Vs. Shear rate for Alk-45 emulsion at different surfactant ratio



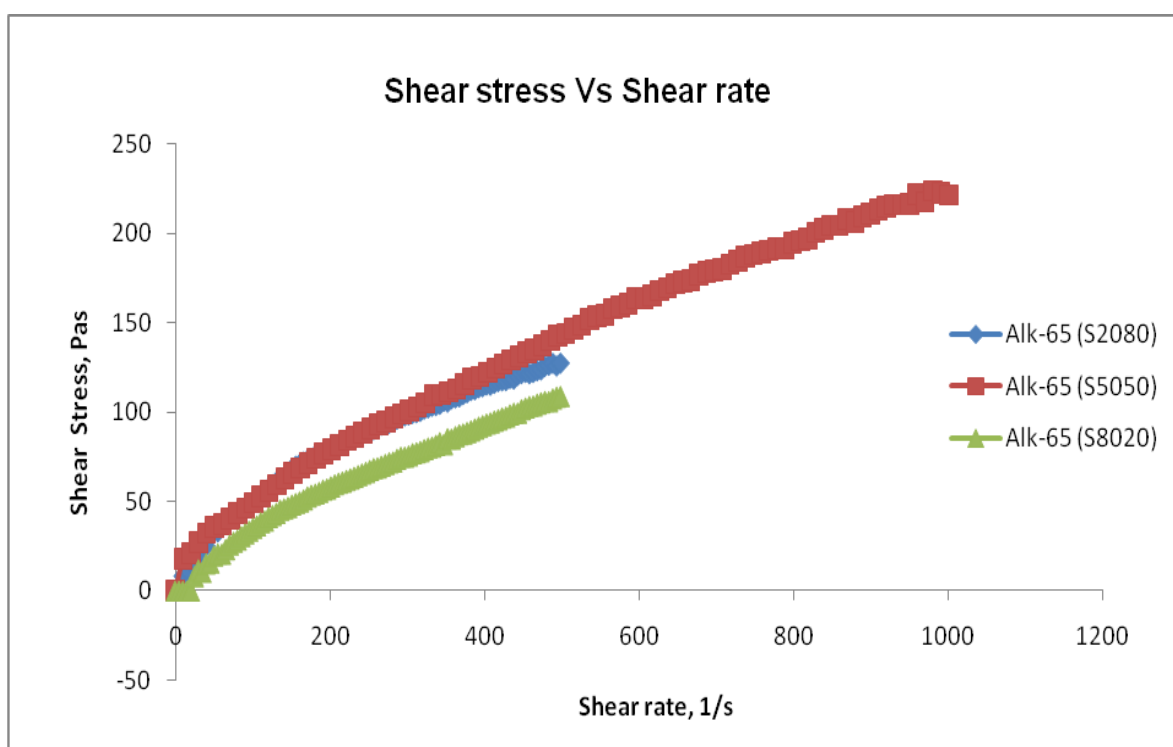
**Figure 3:** Viscosity Vs. Shear rate for Alk-47 emulsion at different surfactant ratio



**Figure 4:** Shear stress Vs. Shear rate for alk-47 emulsion at different surfactant ratio

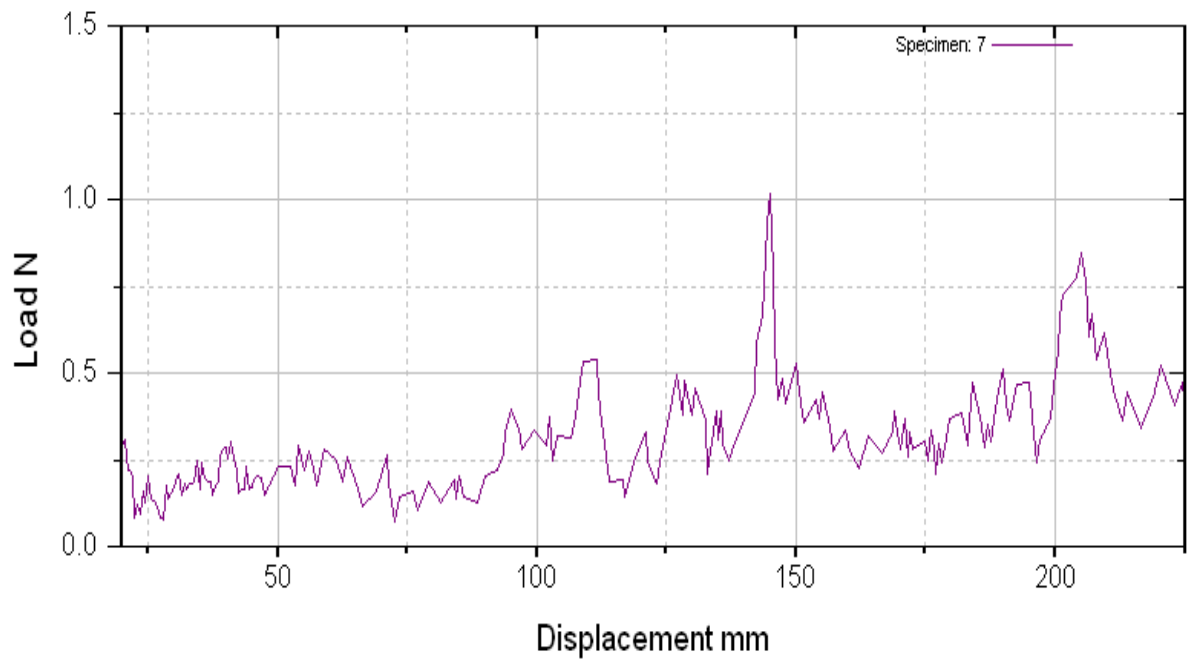


**Figure 5:** Viscosity Vs Shear rate of Alk-65 emulsion at different surfactant ratio

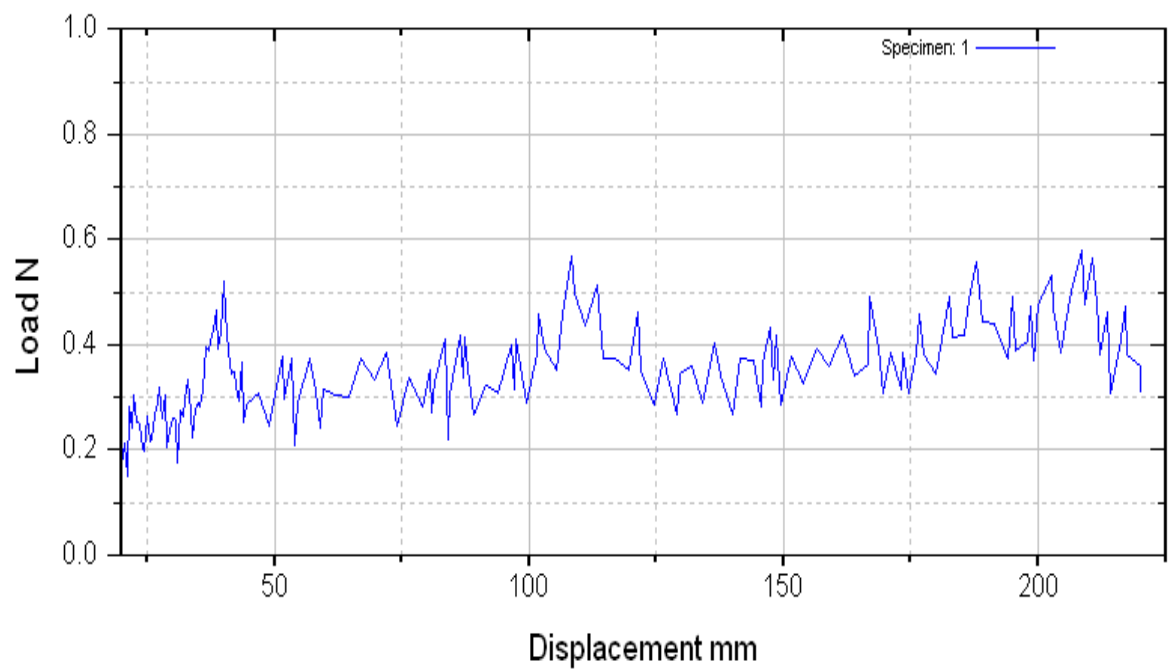


**Figure 6:** Shear stress Vs Shear rate of Alk-65 emulsion at different surfactant ratio

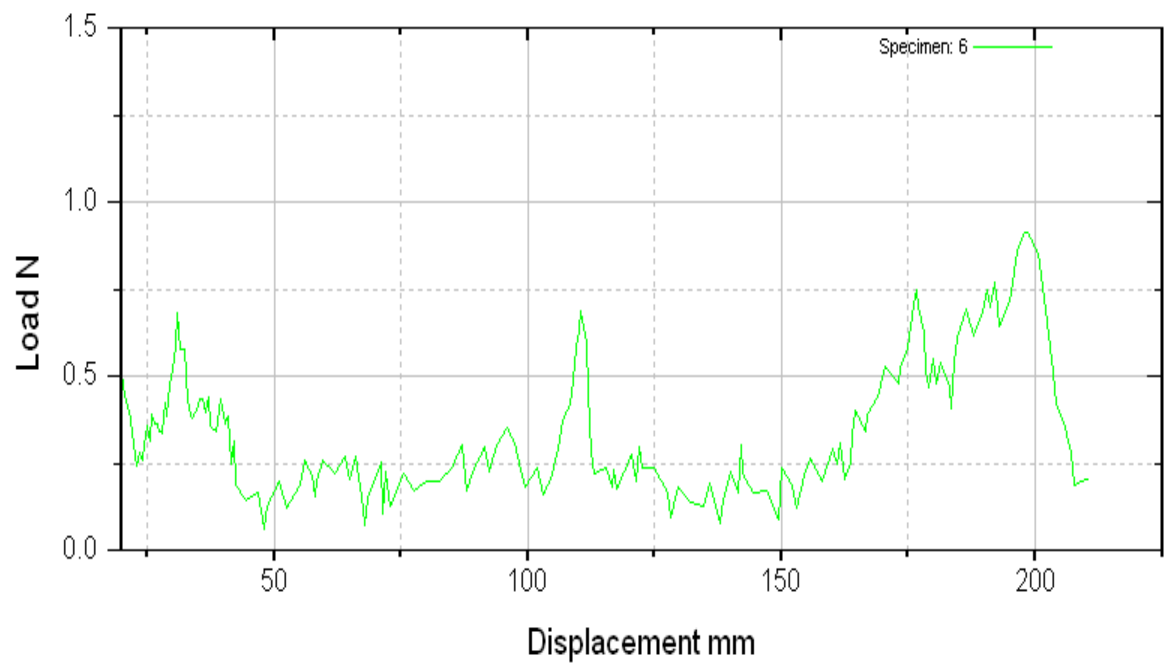
## Appendix H: Peel test result of pure Alk- 47resin



**Figure 1(a):**A Peel test curve for pure Alk-47



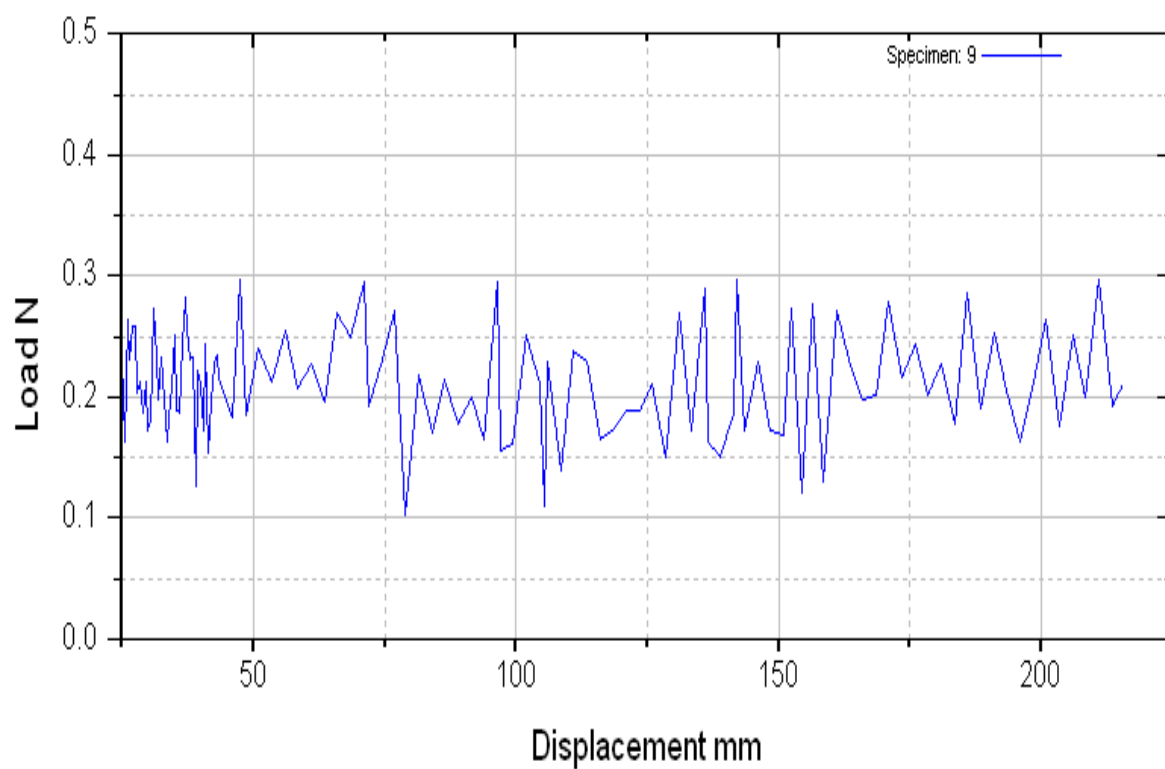
**Figure 1(b):** A Peel test curve for pure Alk-47



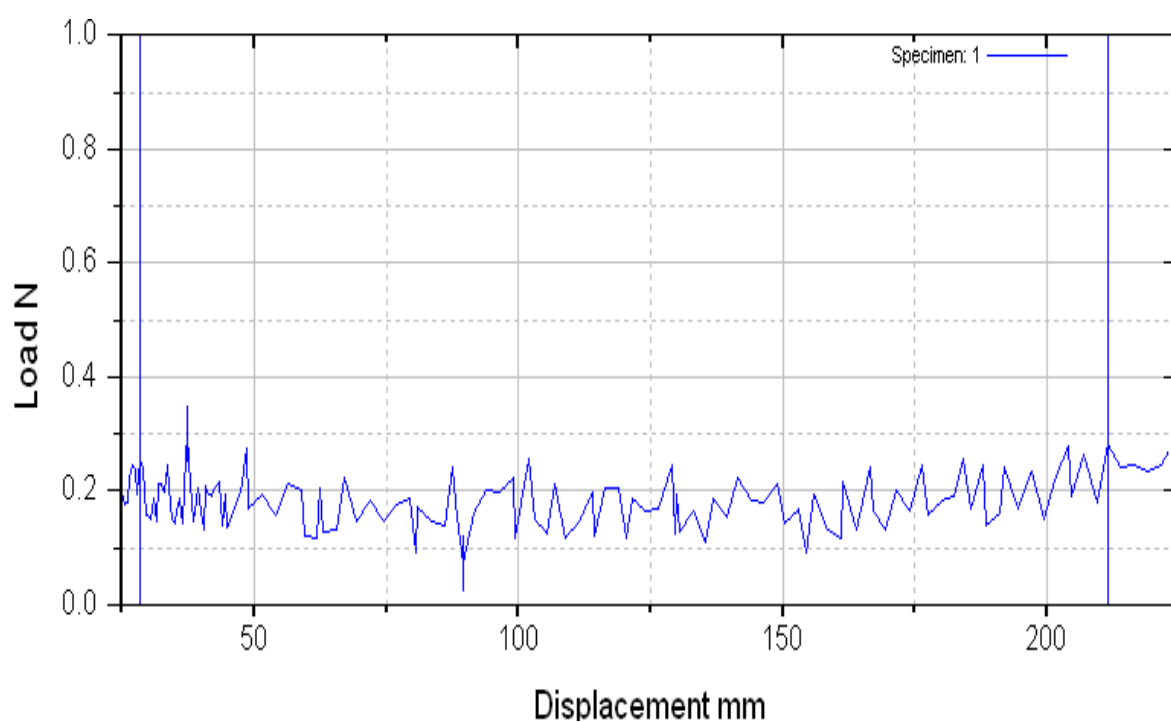
**Figure 1(c):** A Peel test curve for pure Alk-47



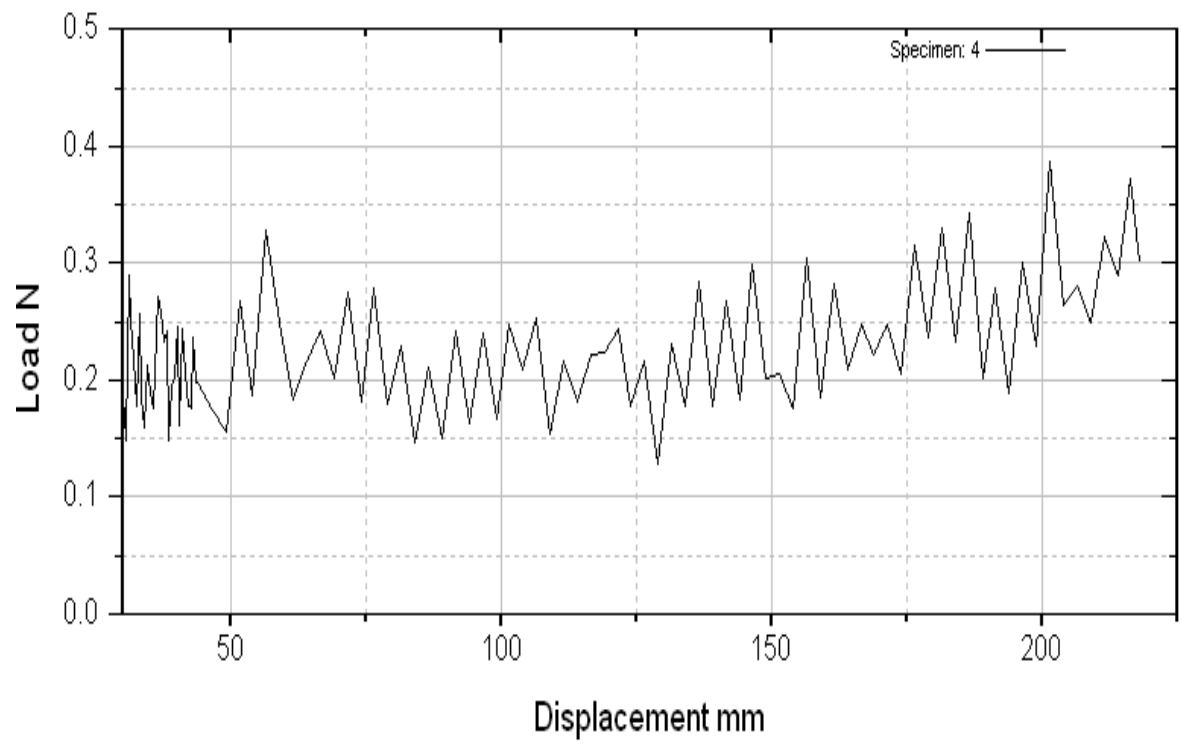
## Appendix I: Peel test result of pure Alk-45resin



**Figure 1(a):** A Peel test curve for pure Alk-45

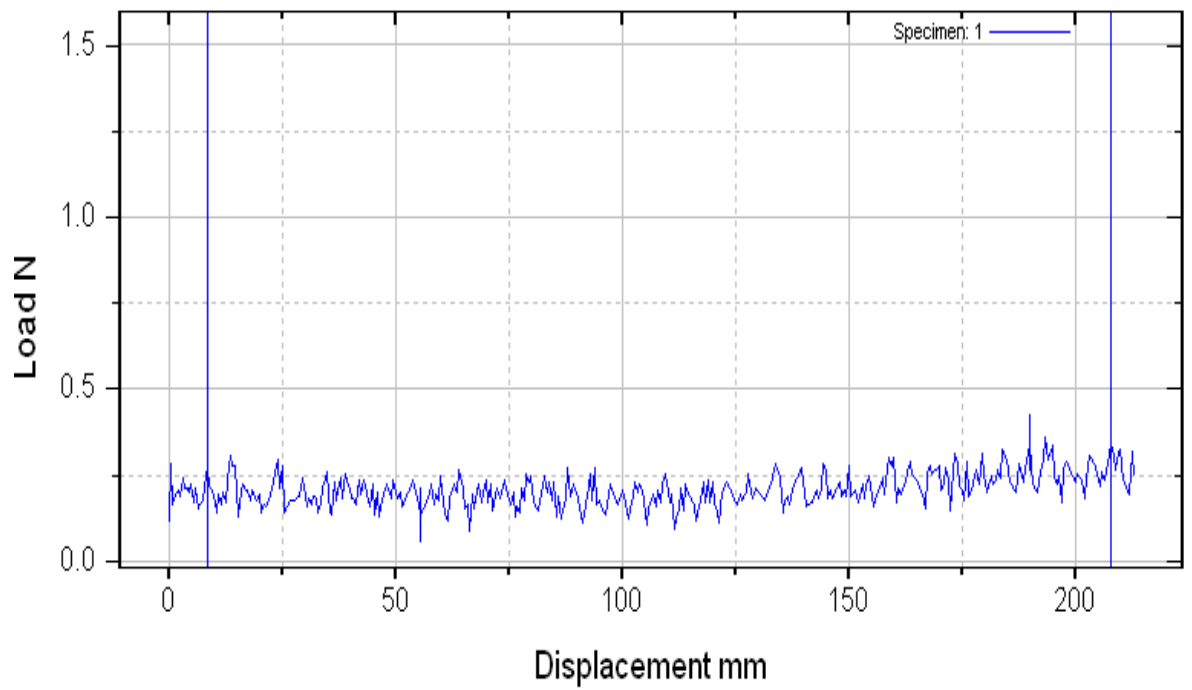


**Figure 1(b):** A Peel test curve for pure Alk-45

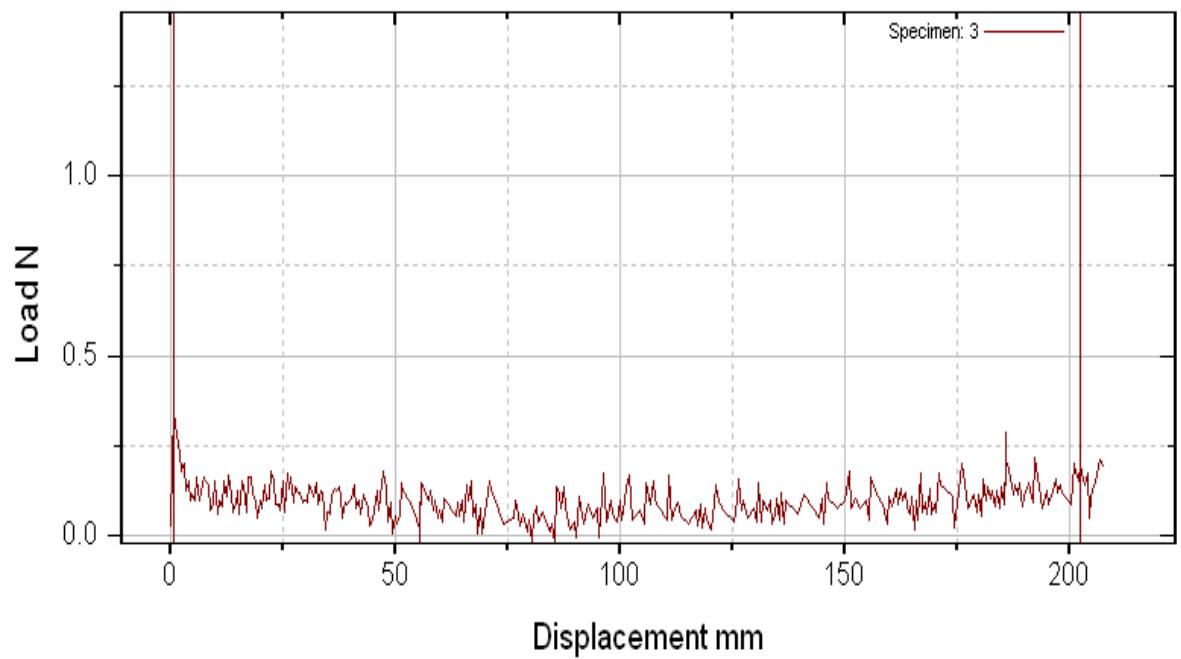


**Figure 1(c):** A Peel test curve for pure Alk-45

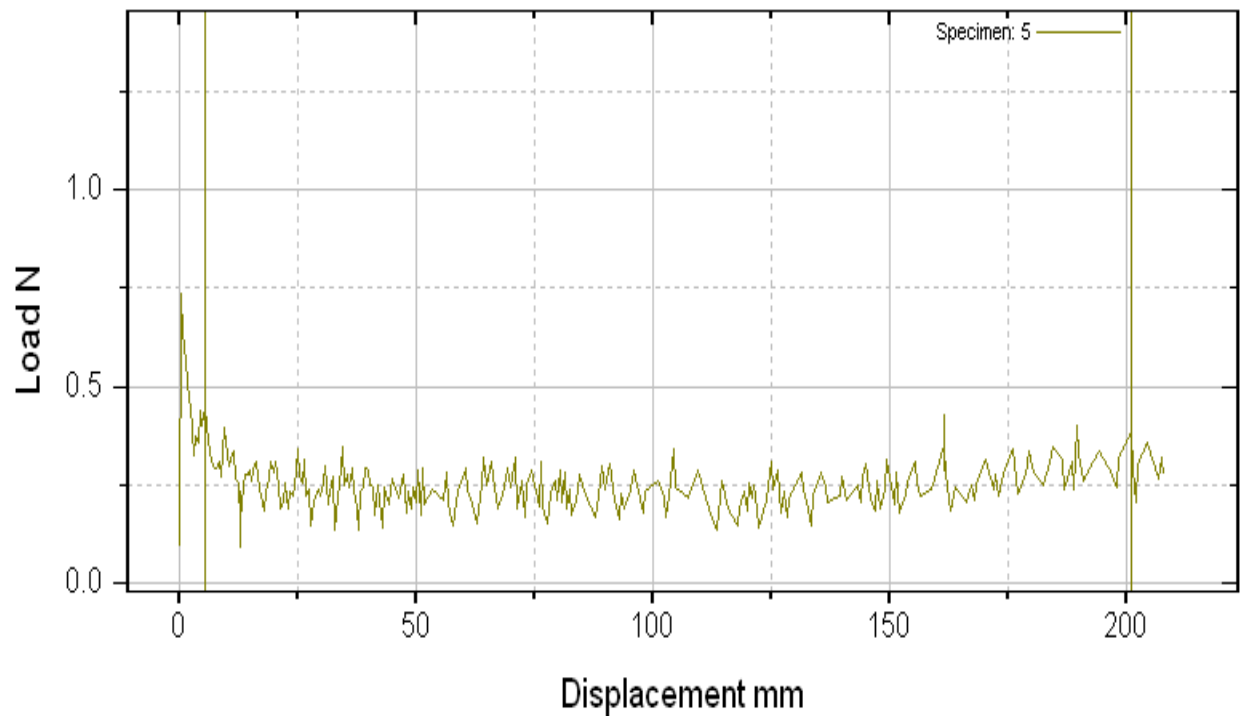
## Appendix J: Peel test result of pure Alk-65resin



**Figure 1(a):** A Peel test curve for pure Alk-65

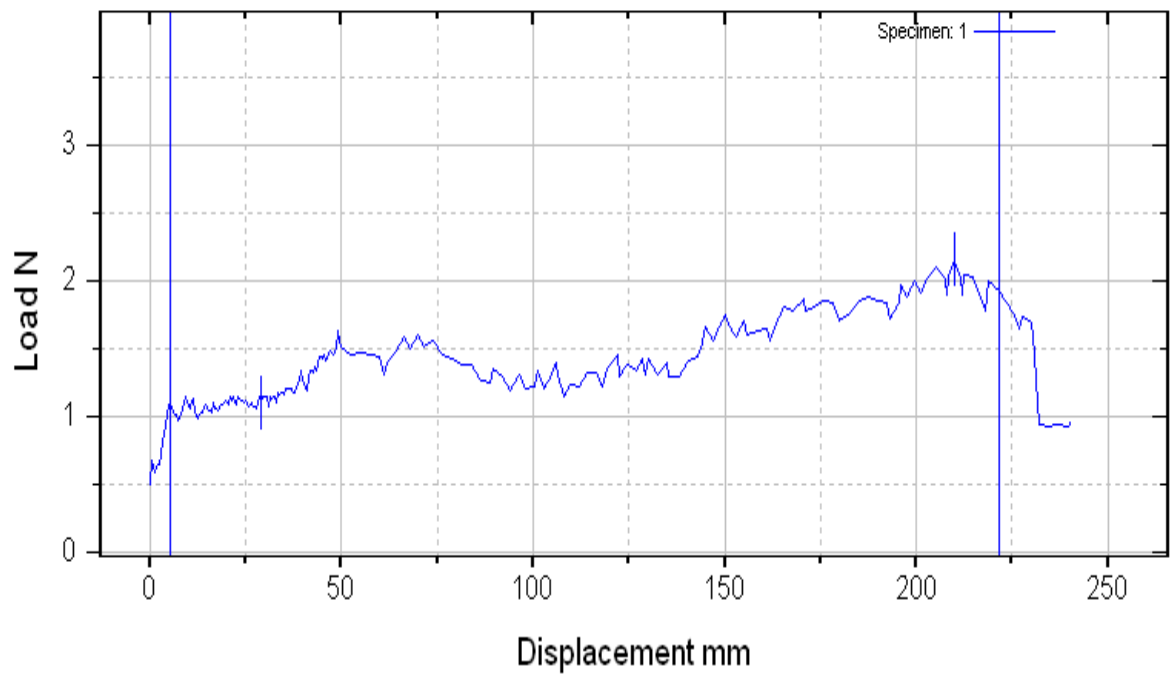


**Figure 1(b):** A Peel test curve for pure Alk-65

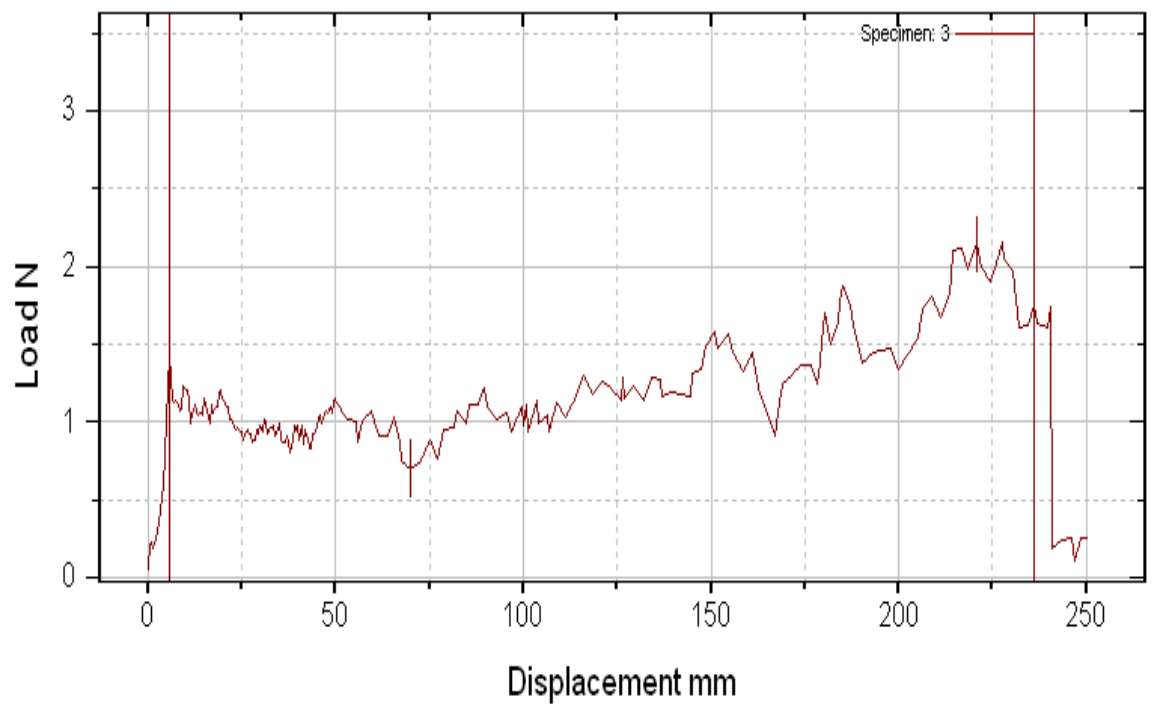


**Figure 1(c):** A Peel test curve for pure Alk-65

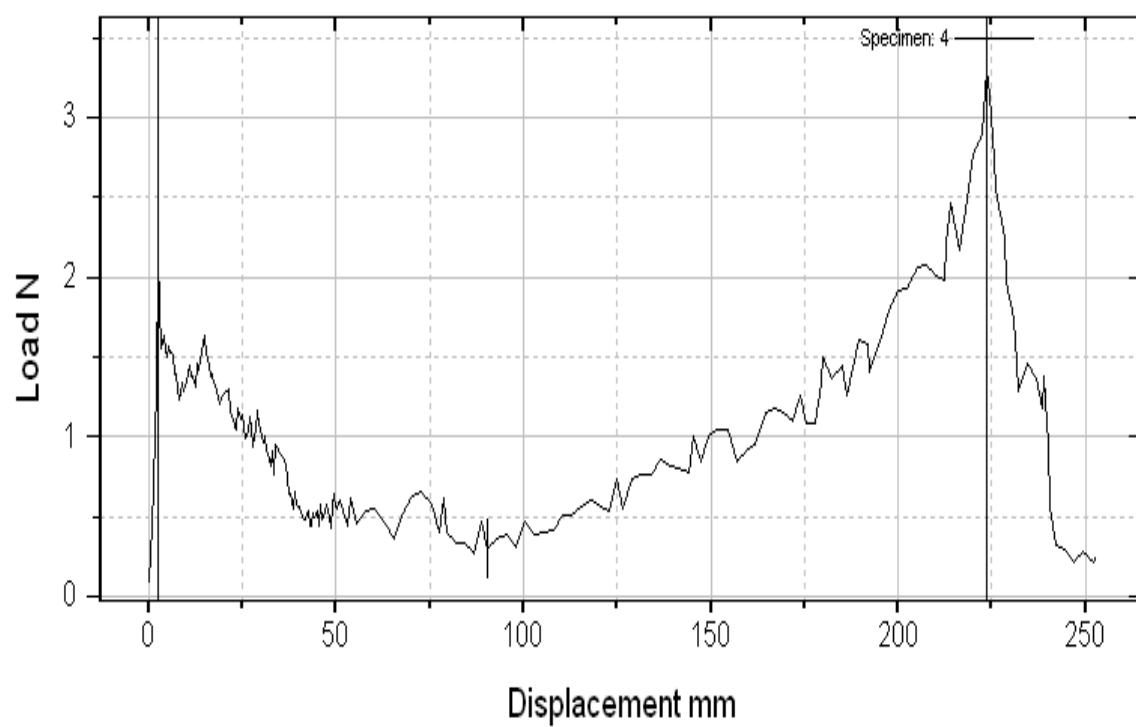
## Appendix K: A Peel test curve of sample Alk-47 PSA tapes



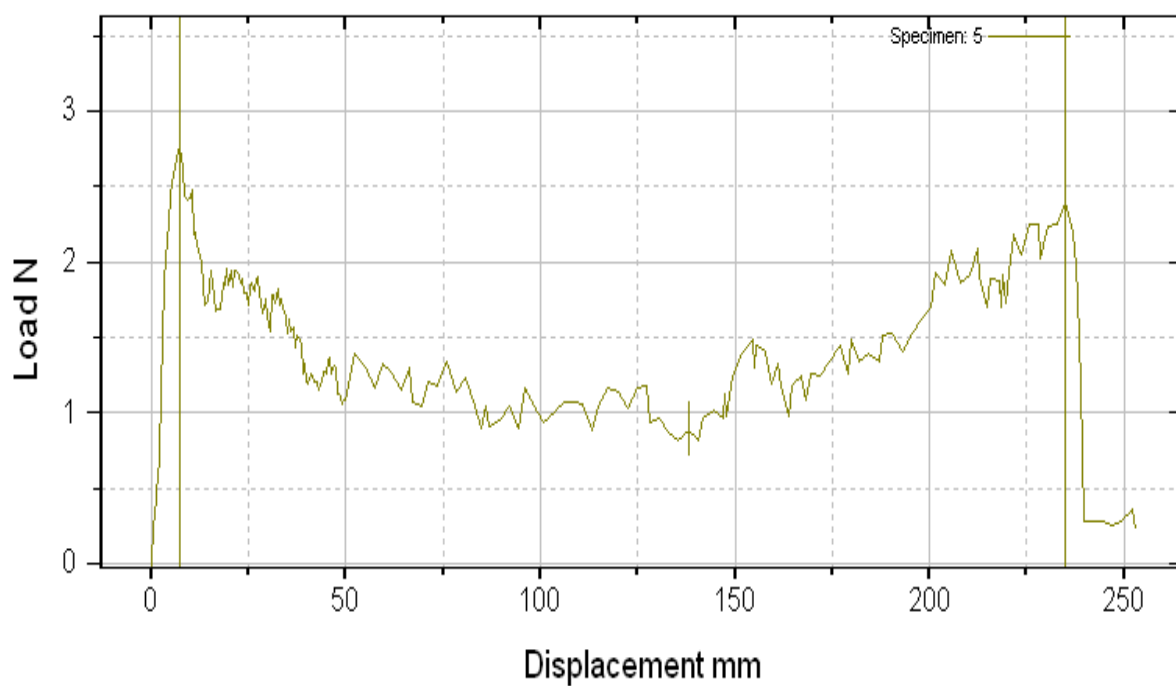
**Figure 1(a):** A Peel test curve of sample Alk-47 PSA tapes



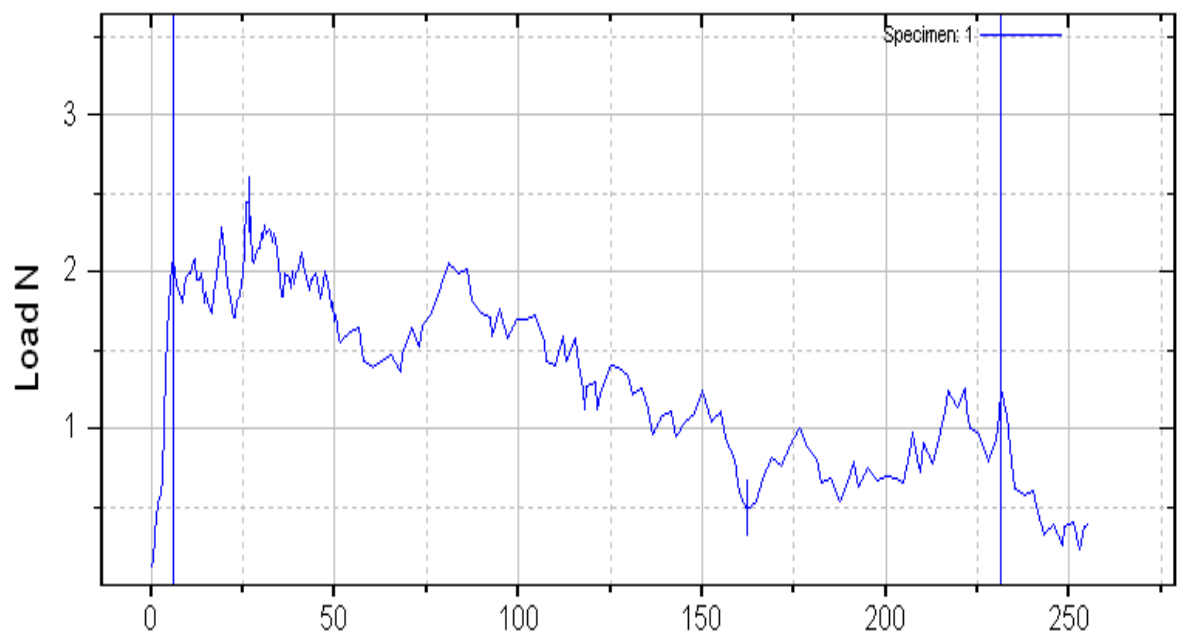
**Figure 1(b):** A Peel test curve of sample Alk-47 PSA tapes



**Figure 1(c):** A Peel test curve of sample Alk-47 PSA tapes

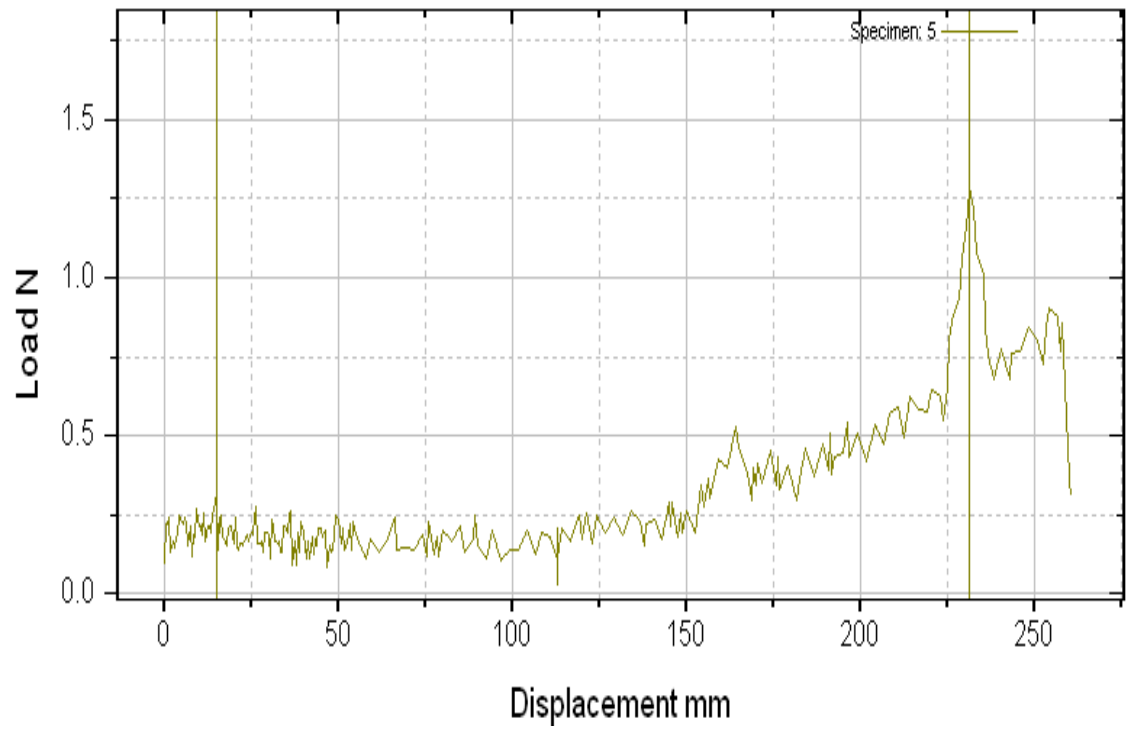


**Figure 1(d):** A Peel test curve of sample Alk-47 PSA tapes

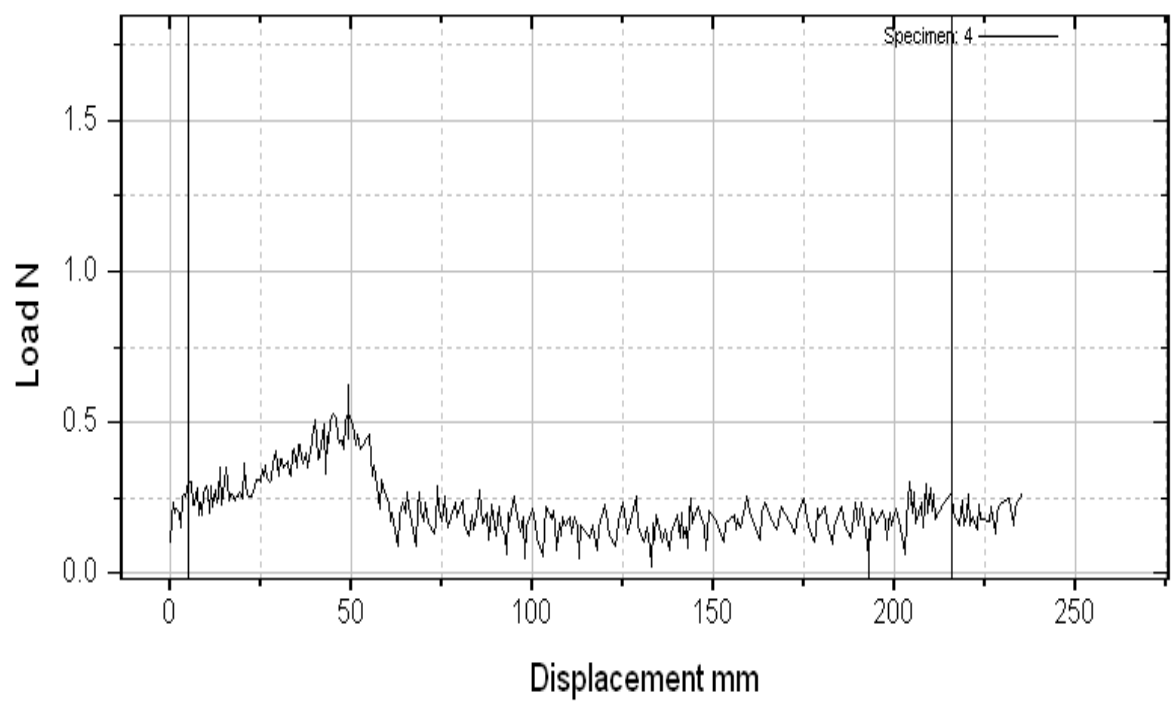


**Figure 1(e):** A Peel test curve of sample Alk-47 PSA tapes

## Appendix L: A Peel test curve of sample Alk-45 PSA tapes

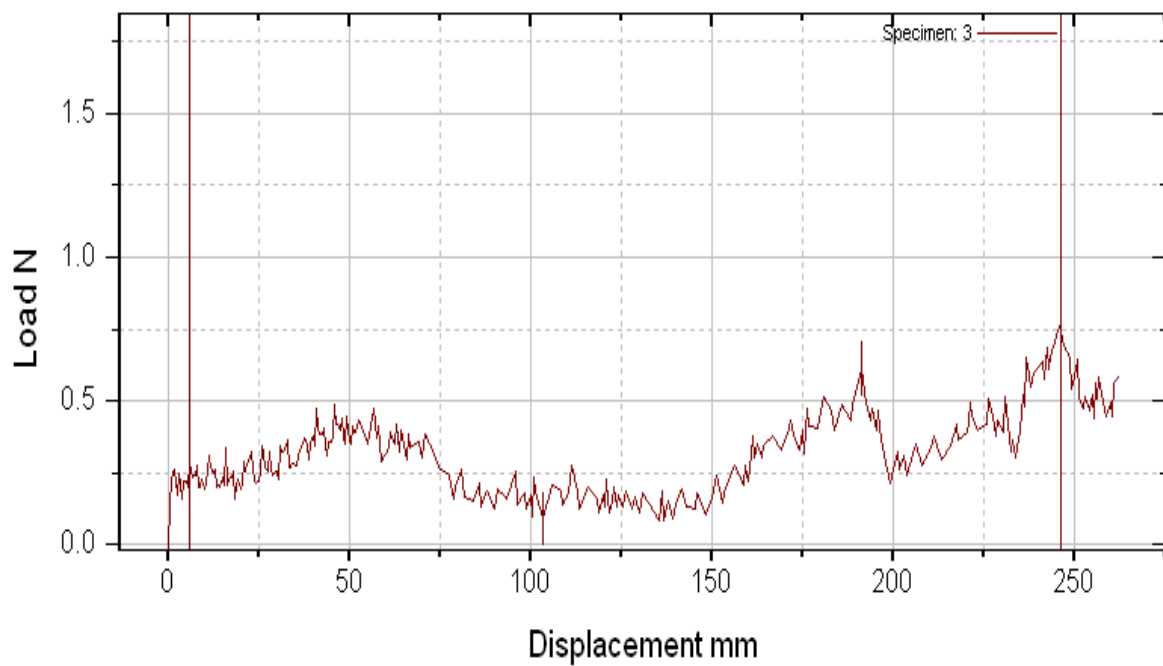


**Figure 1(a):** A Peel test curve of sample Alk-45 PSA tapes

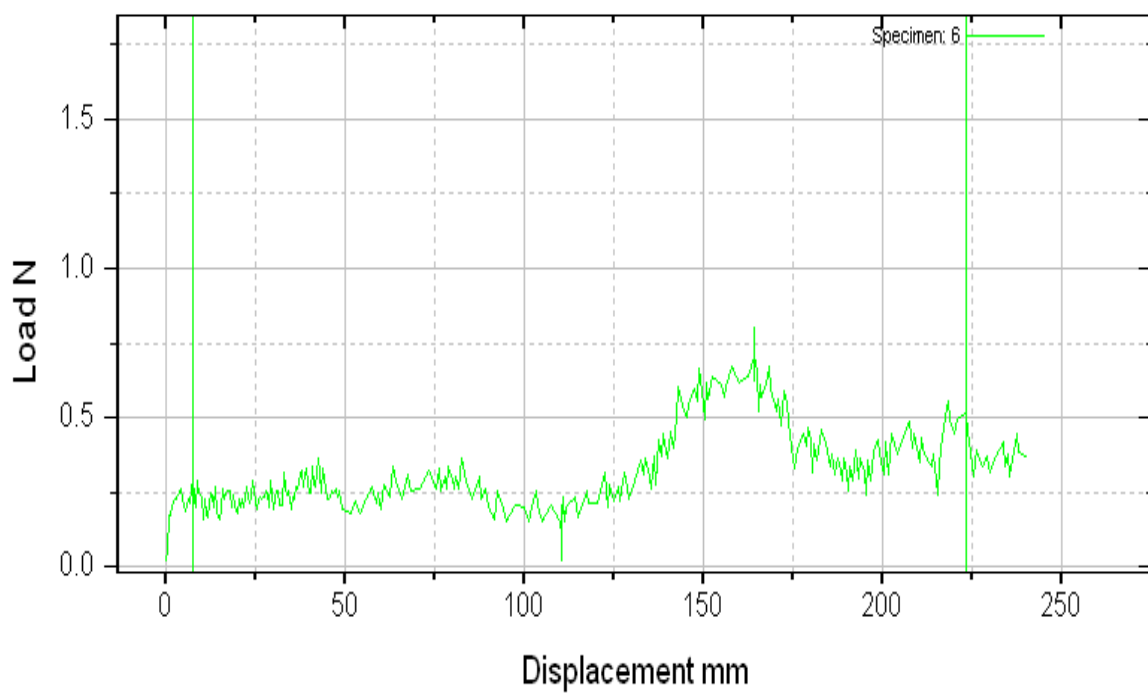


**Figure 1(b):** A Peel test curve of sample Alk-45 PSA tapes

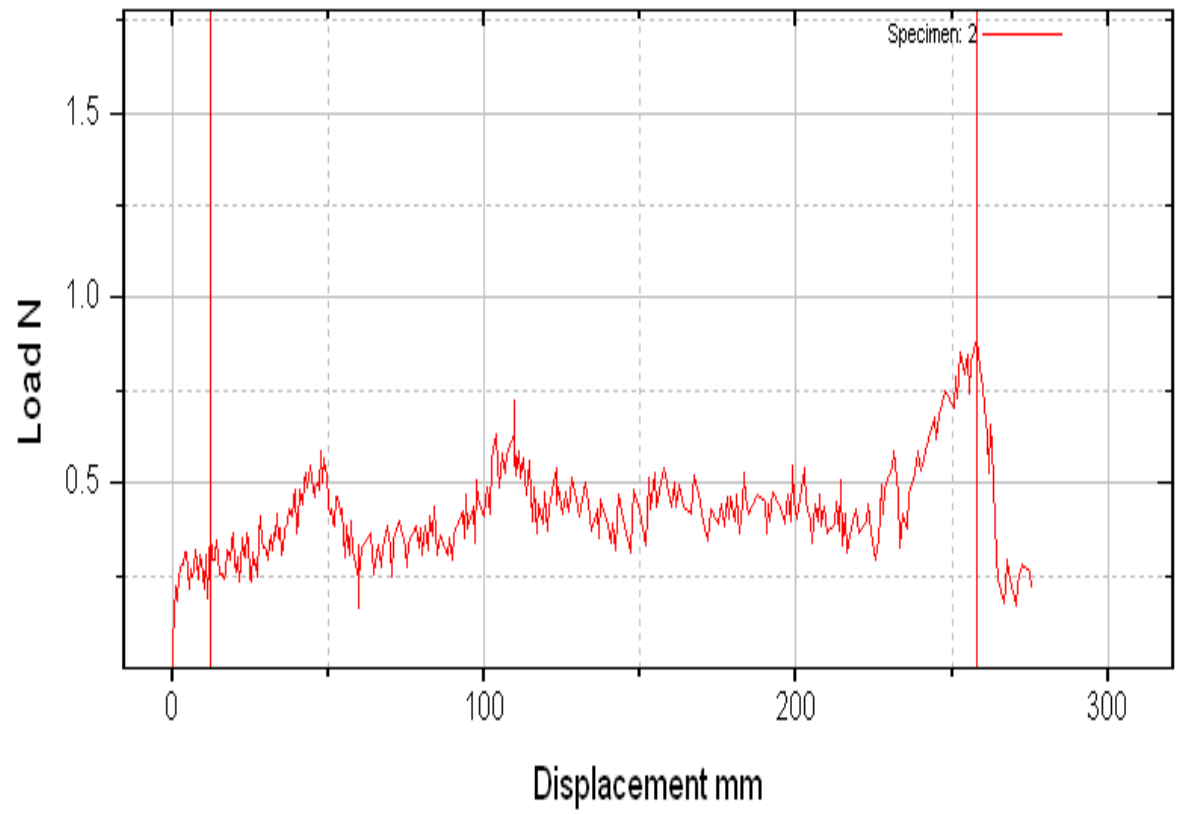




**Figure 1(c):** A Peel test curve of sample Alk-45 PSA tapes

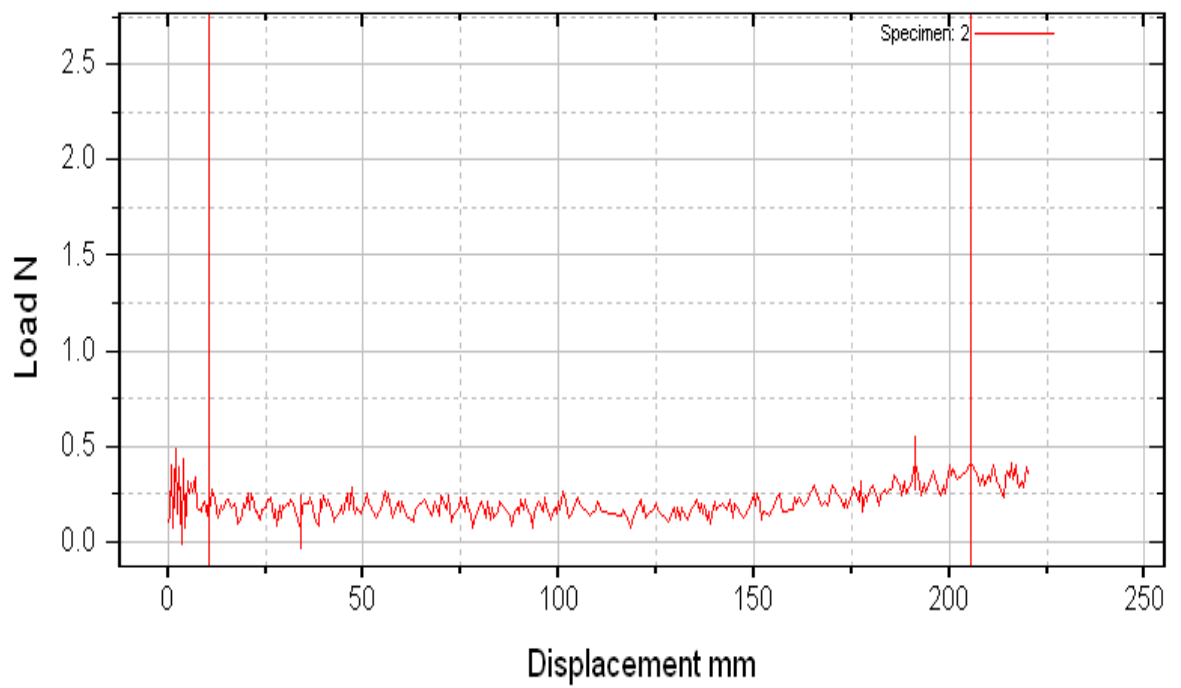


**Figure 1(d):** A Peel test curve of sample Alk-45 PSA tapes

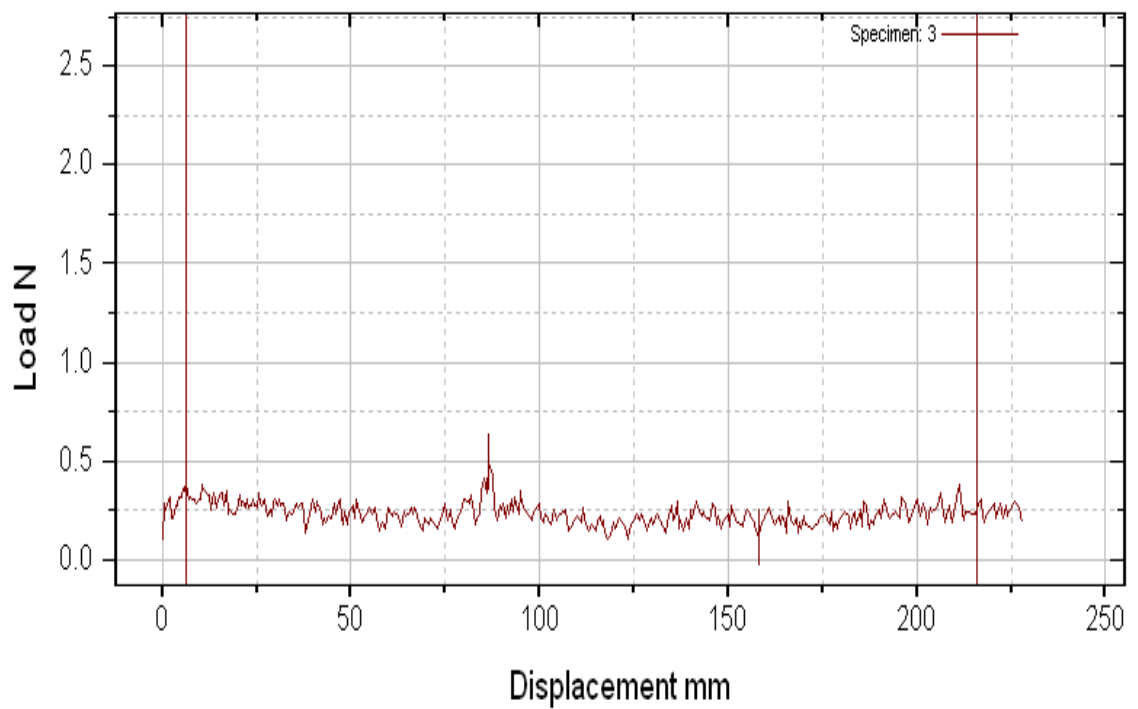


**Figure 1(e):** A Peel test curve of sample Alk-45 PSA tapes

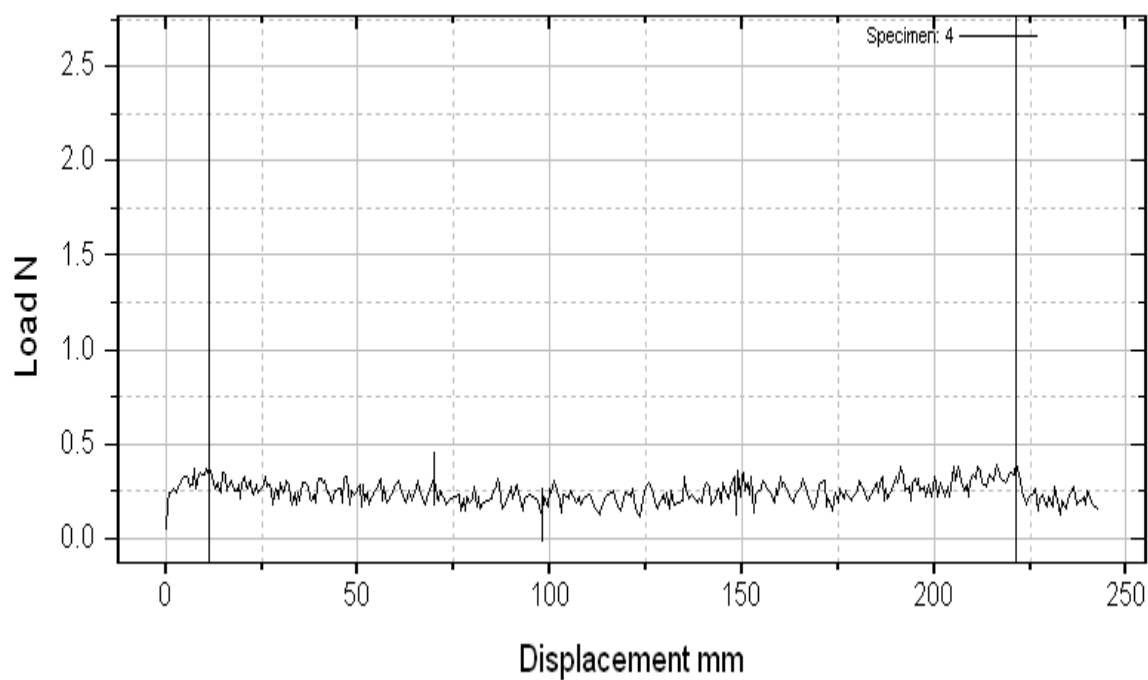
### Appendix M: A Peel test curve of sample Alk-65 PSA tapes



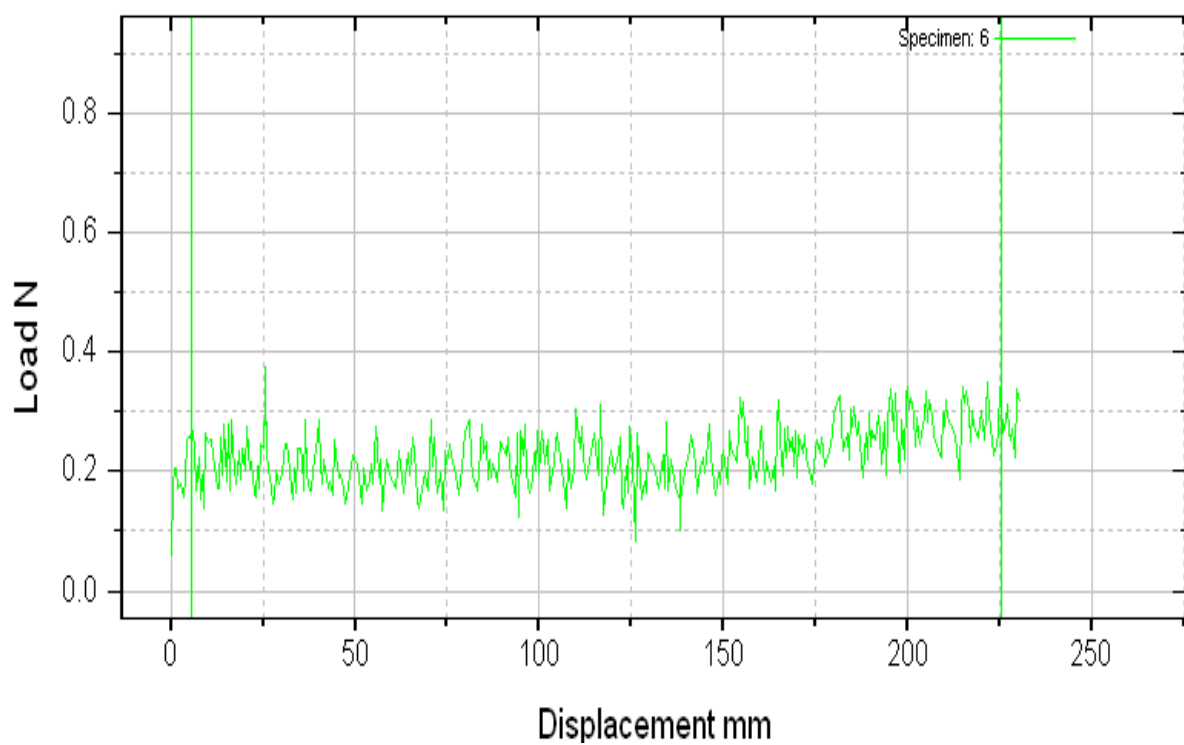
**Figure 1(a):** A Peel test curve of sample Alk-65 PSA tapes



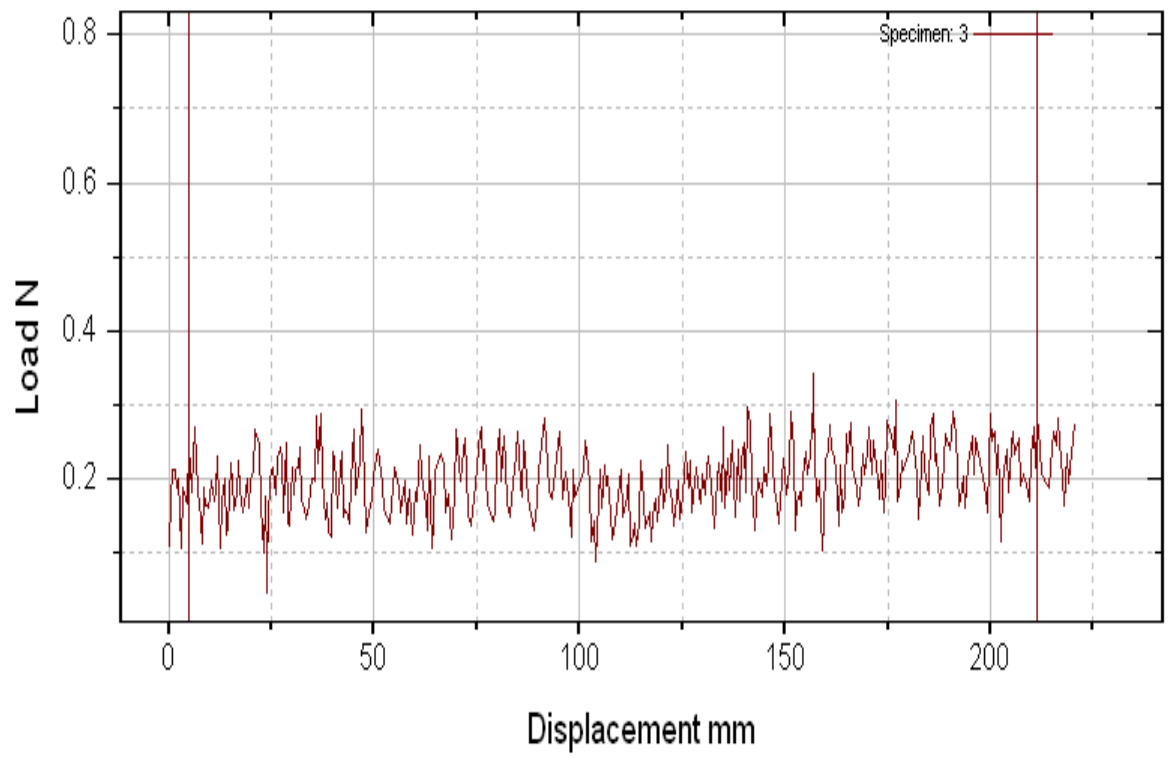
**Figure 1(b):** A Peel test curve of sample Alk-65 PSA tapes



**Figure 1(c):** A Peel test curve of sample Alk-65 PSA tapes

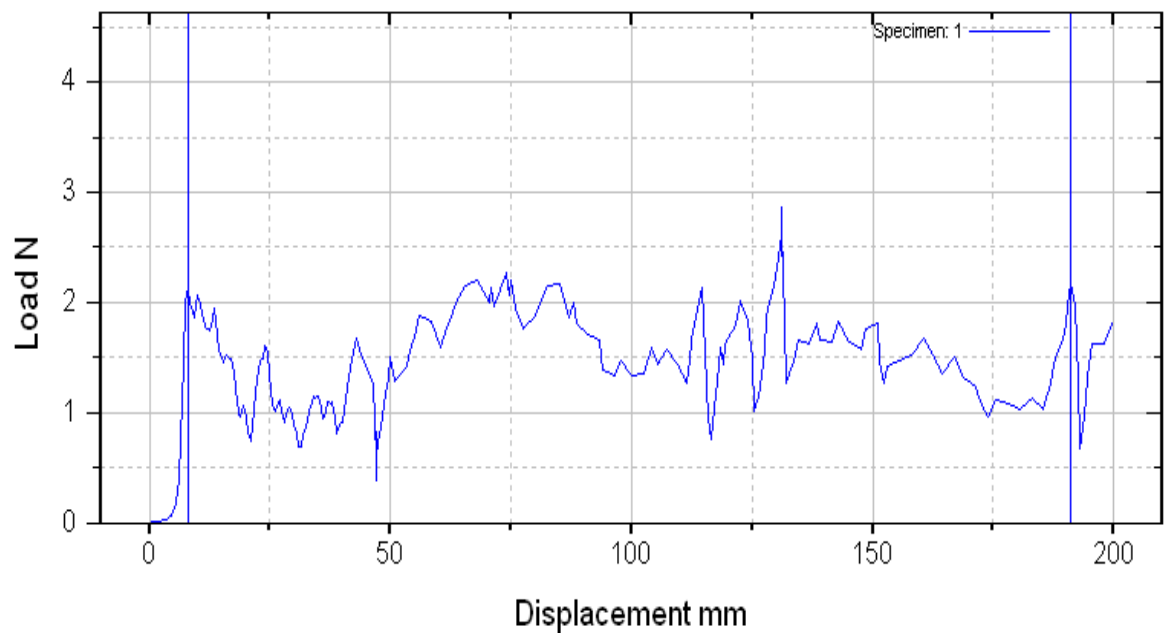


**Figure 1(d):** A Peel test curve of sample Alk-65 PSA tapes

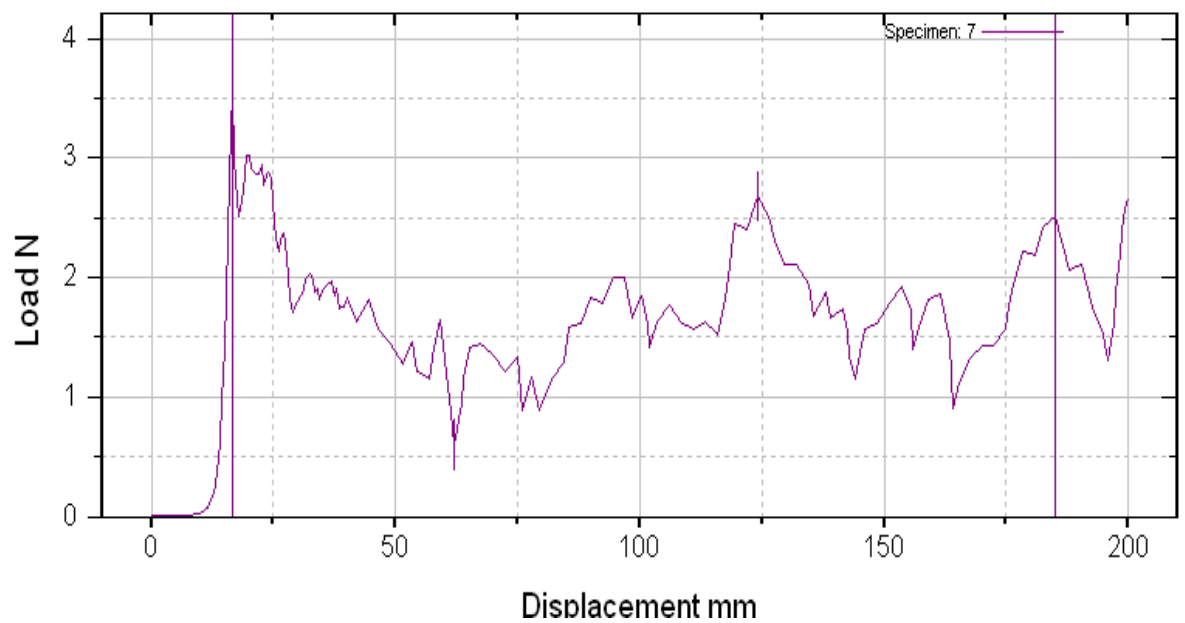


**Figure 1(e):** A Peel test curve of sample Alk-65 PSA tapes

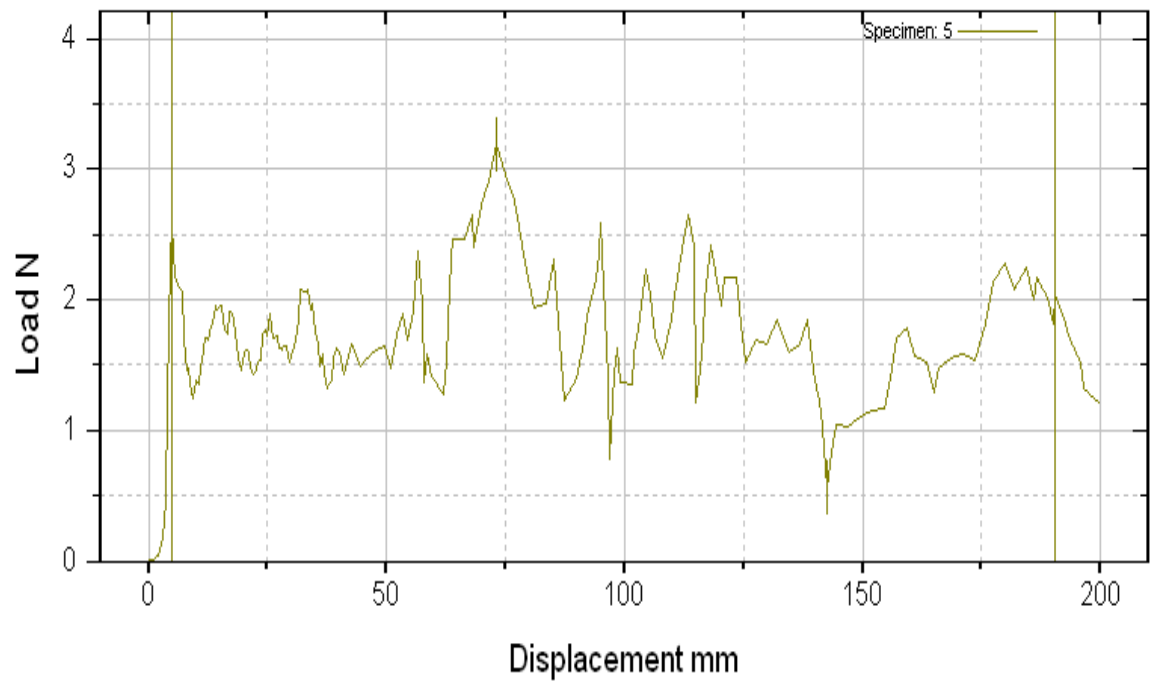
## Appendix N: A Peel test curve of commercial PSA tapes



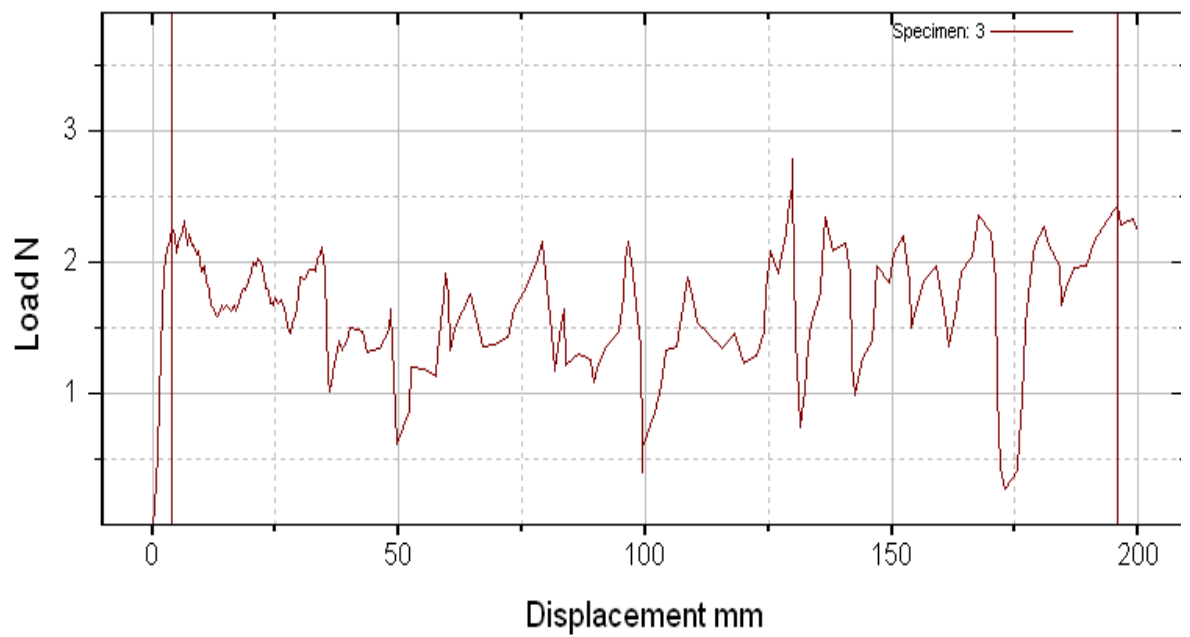
**Figure 1(a):** A Peel test curve of commercial PSA tapes Toyo



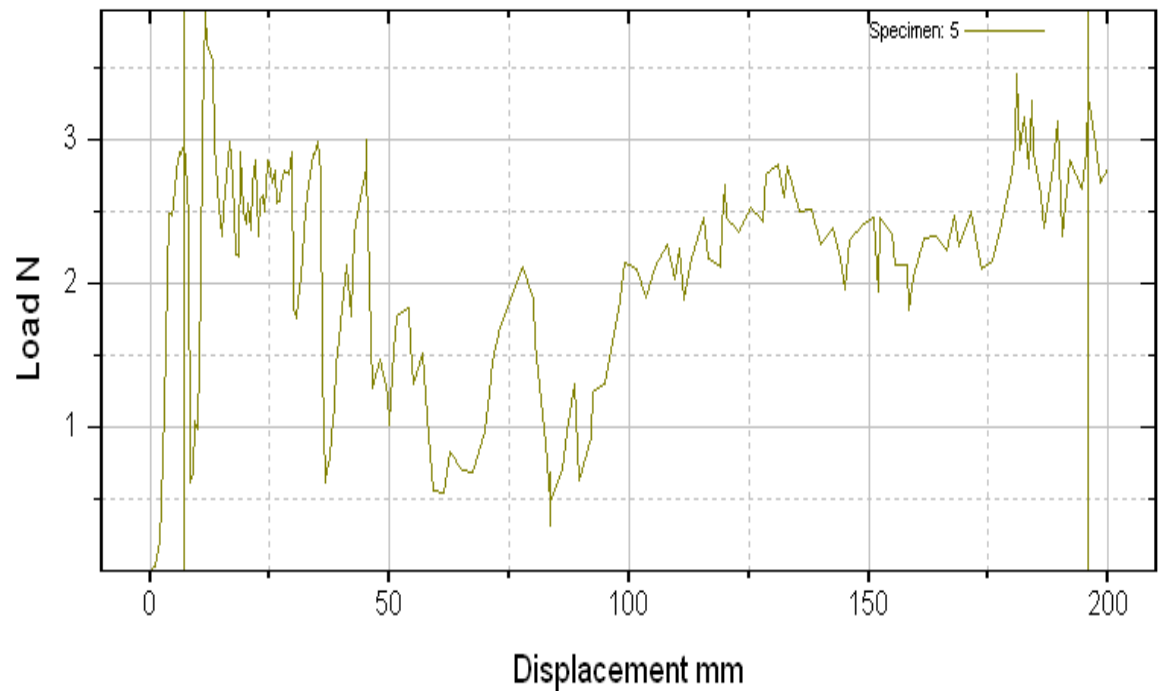
**Figure 1(b):** A Peel test curve of commercial PSA tapes Toyo



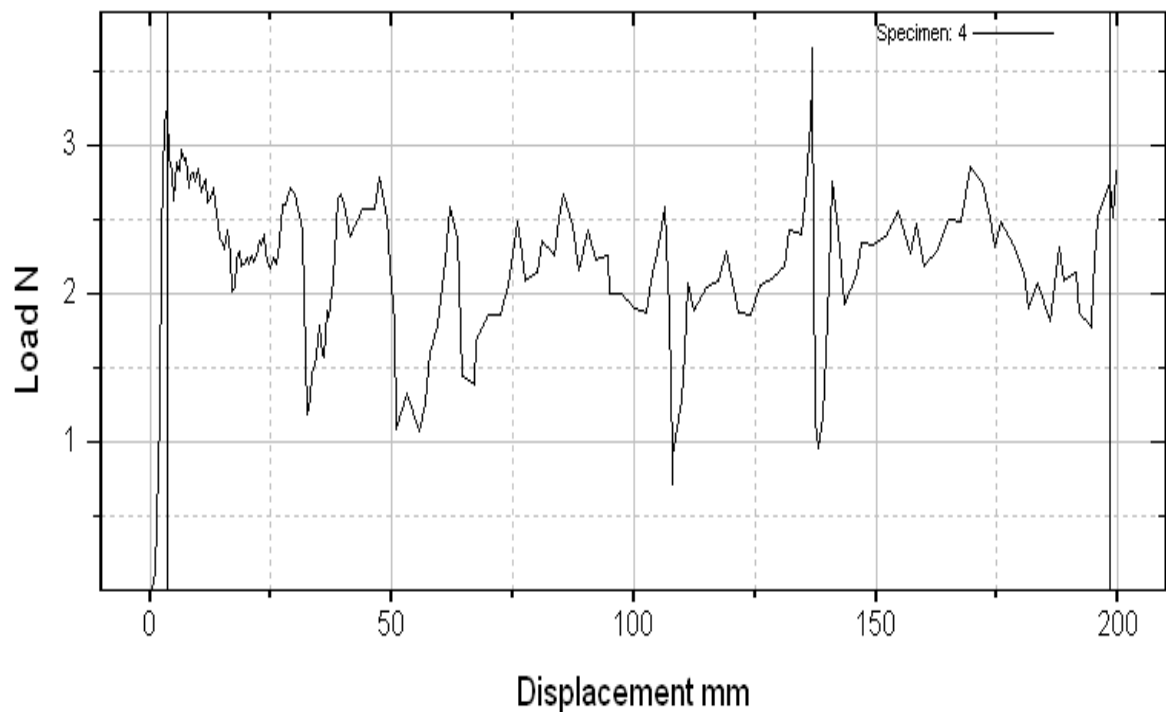
**Figure 1(c):** A Peel test curve of commercial PSA tapes Toyo



**Figure 2(a):** A Peel test curve of commercial PSA tapes Loytape

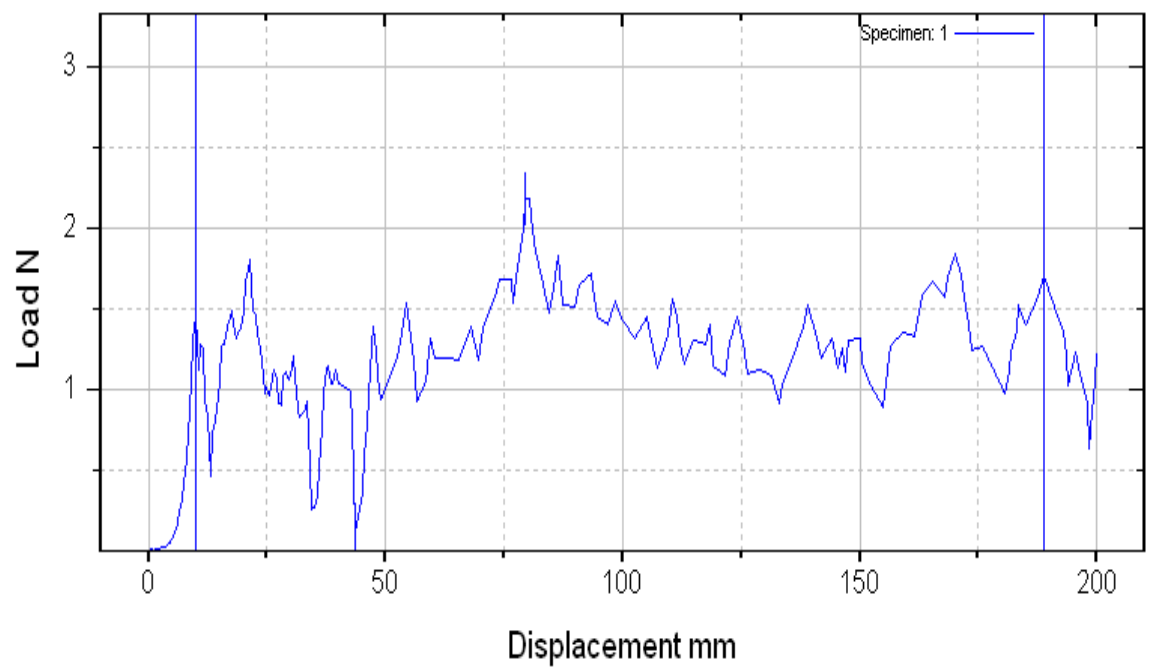


**Figure 2(b):** A Peel test curve of commercial PSA tapes Loytape

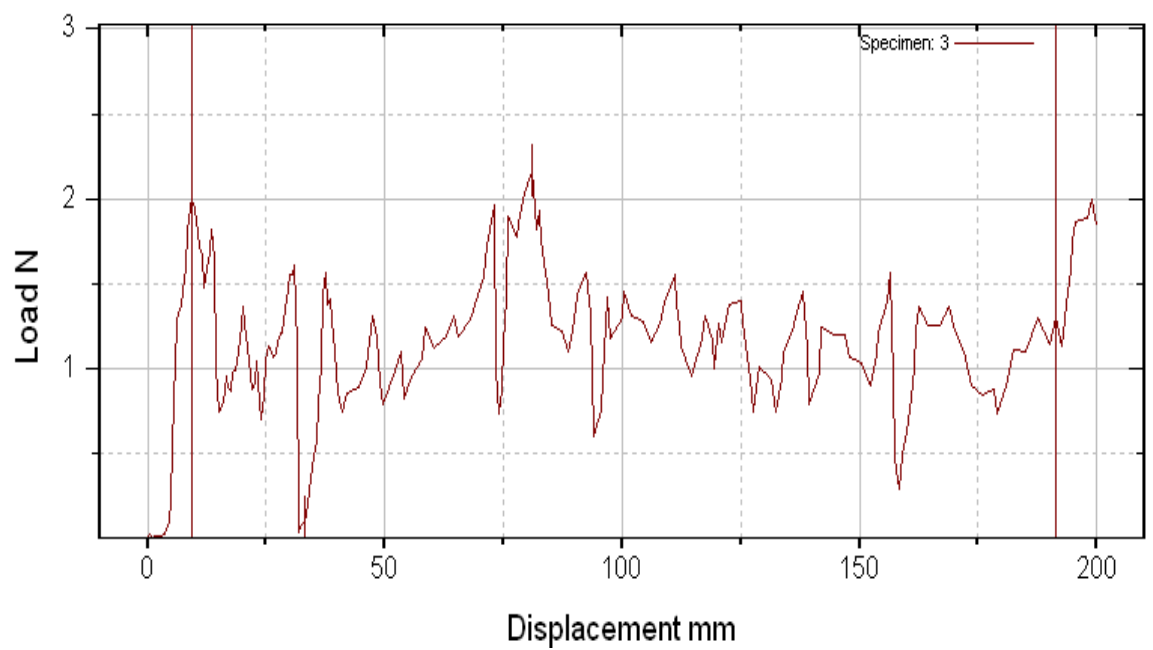


**Figure 2(c):** A Peel test curve of commercial PSA tapes Loytape

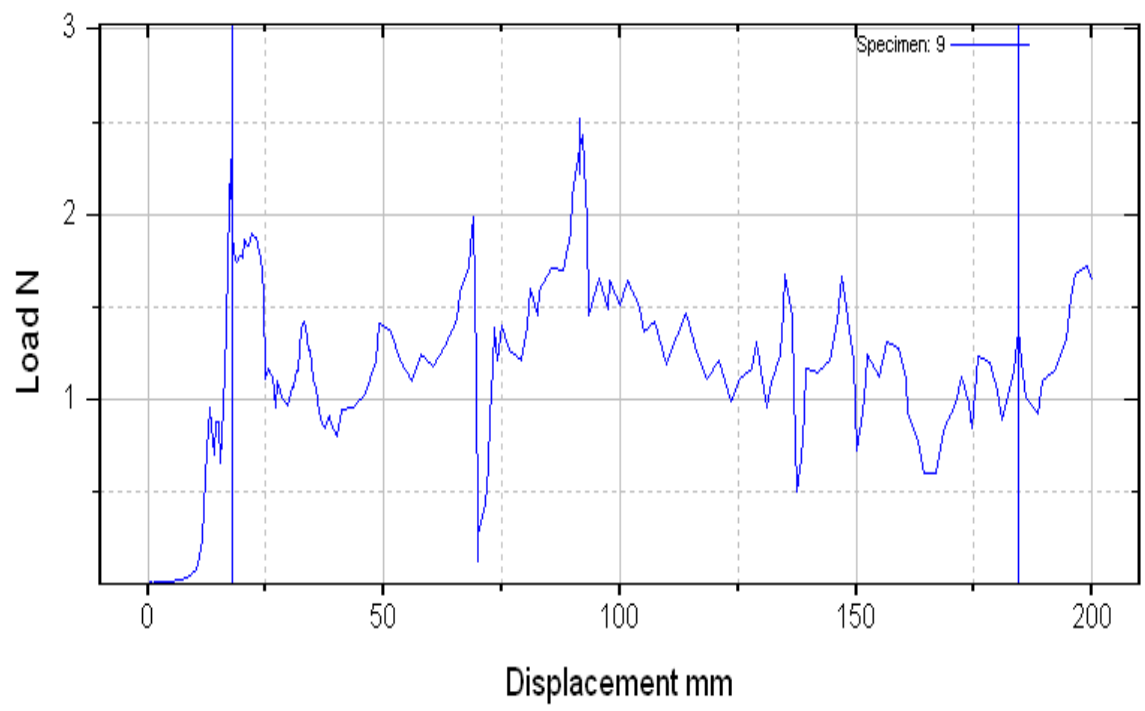




**Figure 3(a):** A Peel test curve of commercial PSA tapes ESI



**Figure 3(b):** A Peel test curve of commercial PSA tapes ESI



**Figure 3(c):** A Peel test curve of commercial PSA tapes ESI