

Outgassing – Customer Info

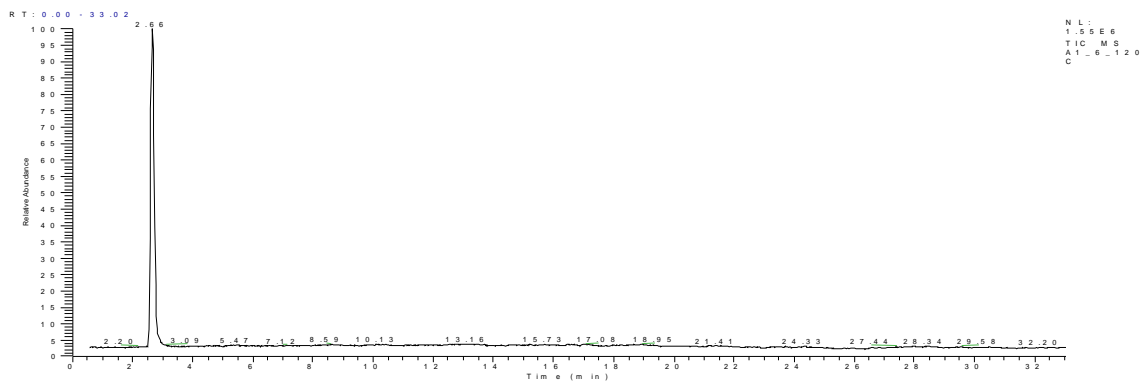
Gas-chromatographic headspace analysis of volatile compounds of Laminum[®] laminated material

Quantitation of volatile components in our Laminum[®] products at 20°C, 80°C and 120°C. To do so, samples were tempered individually in a closed vessel for 30 minutes before the gas composition was analyzed. The examinations were begun at 120°C.

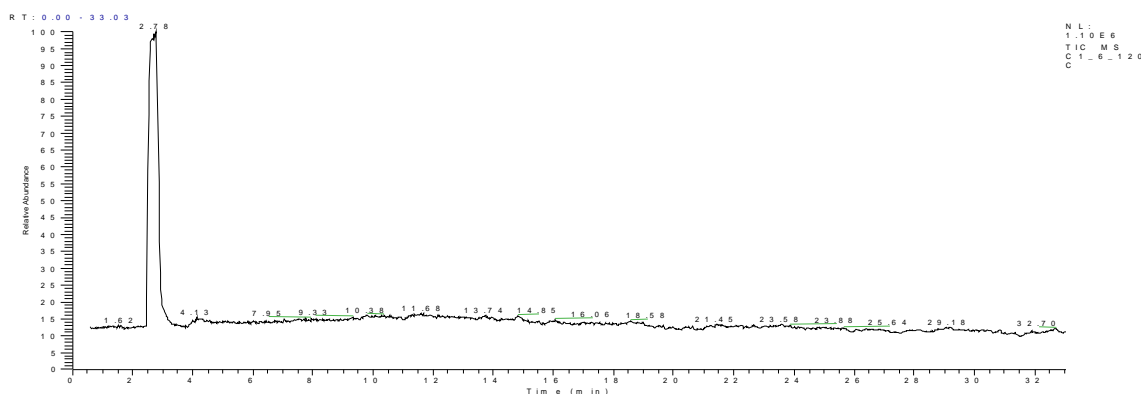
No volatile components could be detected at 120°C with the Laminum[®] samples A 1,6; D 1,6; F 1,6; L 1,6; M 1,6 and O 1,6. All that can be seen in the chromatogram is the peak, which corresponds to air. Samples C 1,6; G 1,6 and H 1,6 showed small signals of 1-methoxy-2-propyl acetate. Test specimens of these three metal samples were then tempered at 80°C. No 1-methoxy-2-propyl acetate was detected at this temperature.

A database with 130,000 spectra was used for the research.

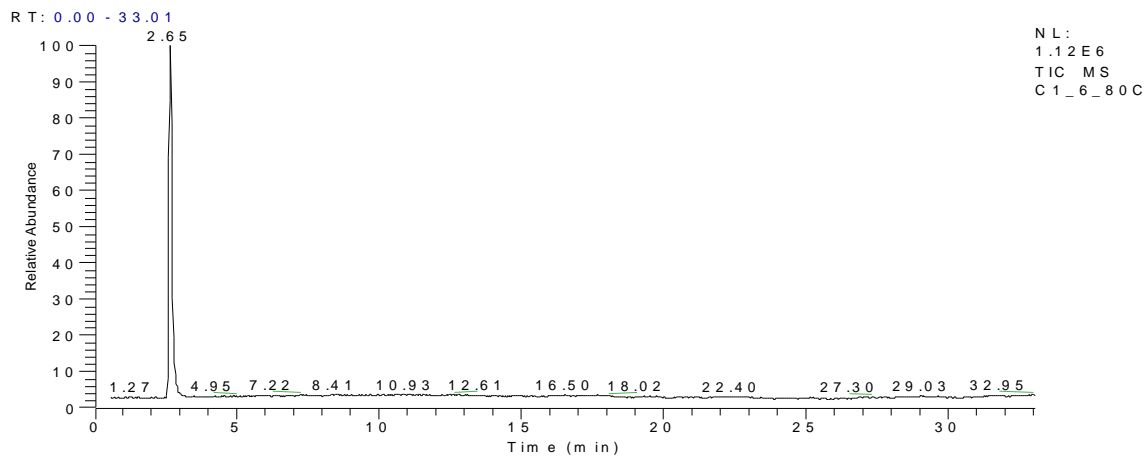
Chromatograms of the examined samples:



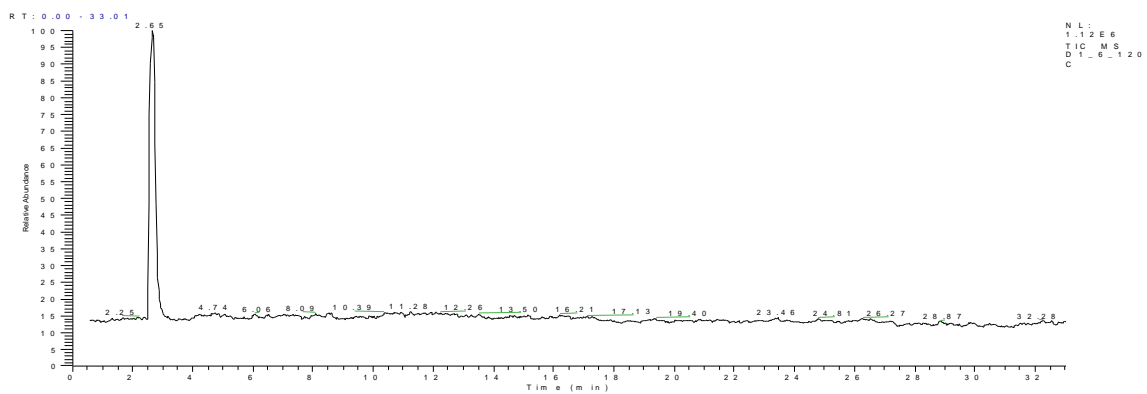
Picture 1: Headspace chromatogram at 120°C of the sample A 1,6



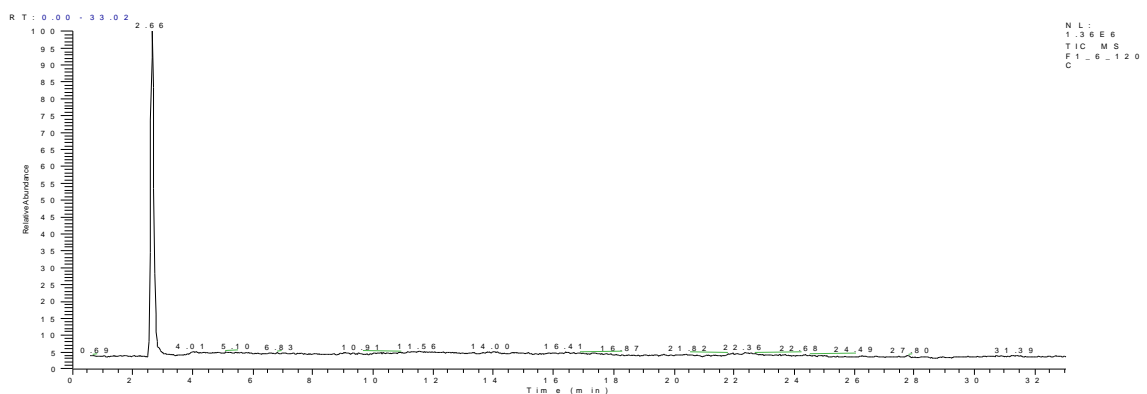
Picture 2: Headspace chromatogram at 120°C of the sample C 1,6



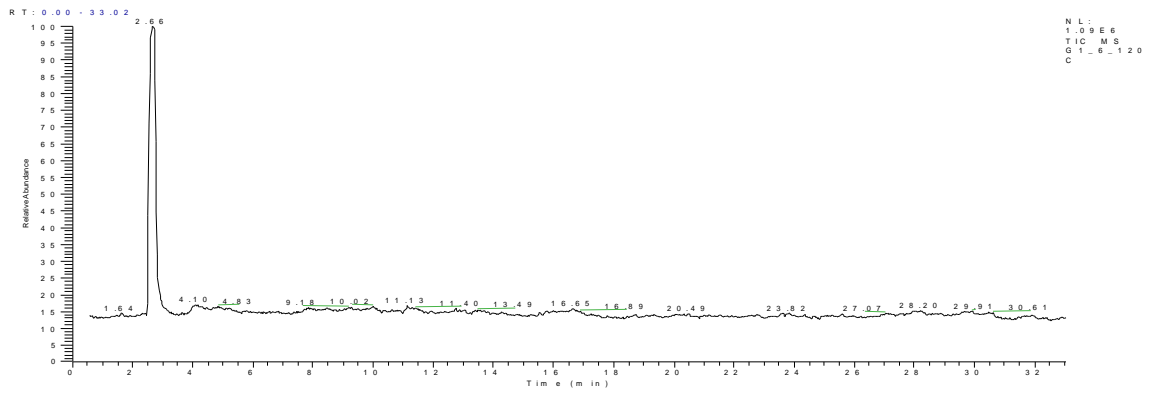
Picture 3: Headspace chromatogram at 80°C of the sample C 1,6



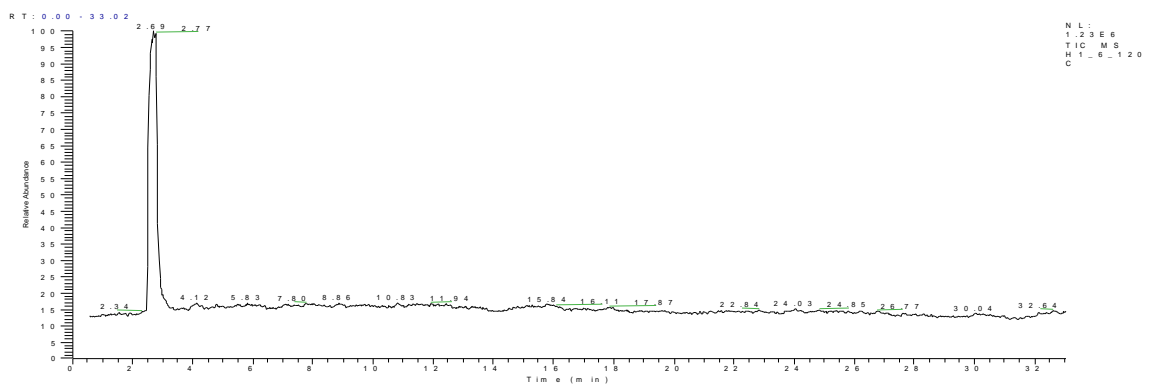
Picture 4: Headspace chromatogram at 120°C of the sample D 1,6



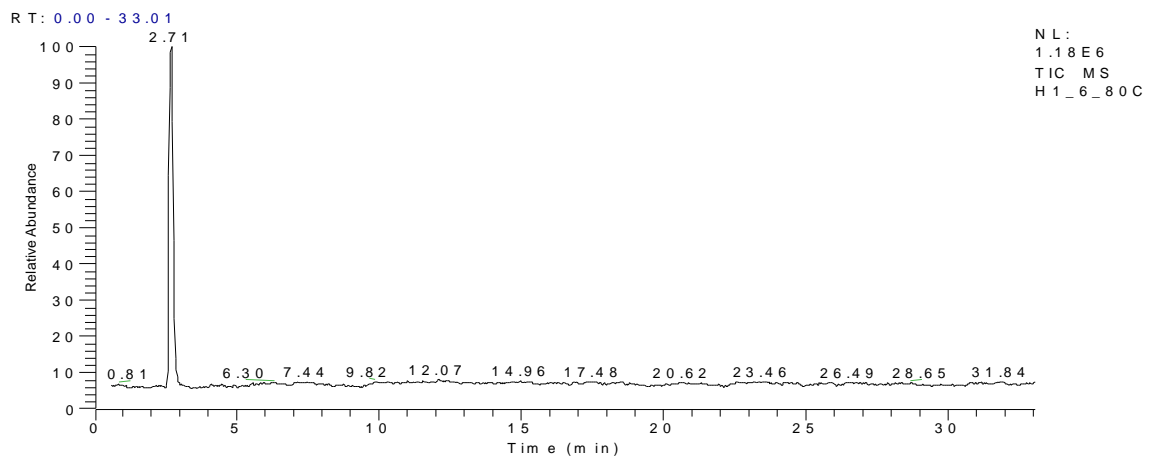
Picture 5: Headspace chromatogram at 120°C of the sample F 1,6



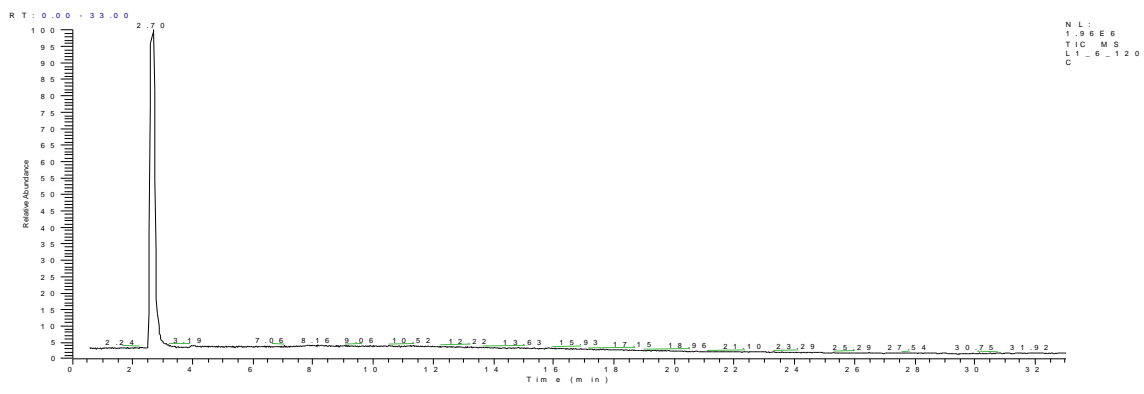
Picture 5: Headspace chromatogram at 120°C of the sample G 1,6



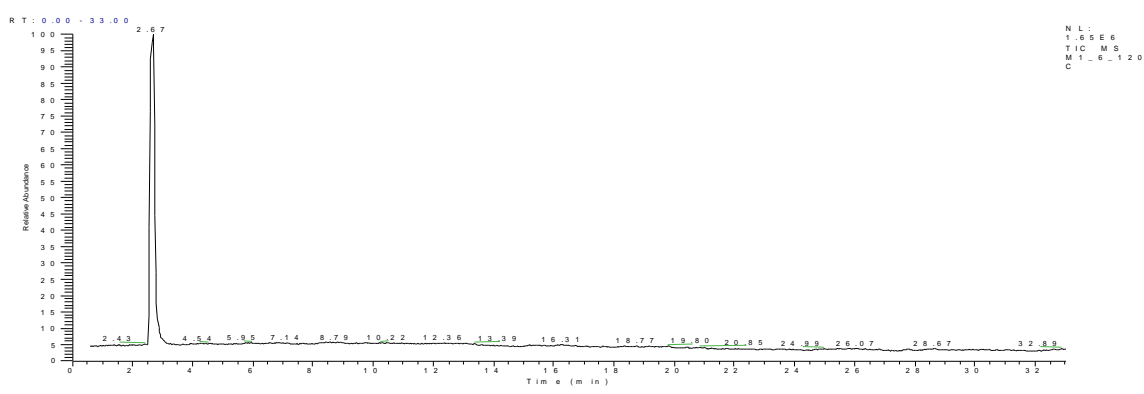
Picture 6: Headspace chromatogram at 120°C of the sample H 1,6



Picture 6: Headspace chromatogram at 80°C of the sample H 1,6



Picture 7: Headspace chromatogram at 120°C of the sample L 1,6



Picture 8: Headspace chromatogram at 120°C of the sample M 1,6