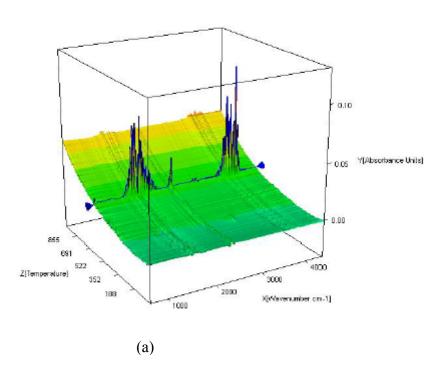
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Supplementary information

Formation of H₂O e CO₂:



Formation of H₂O e CO₂.

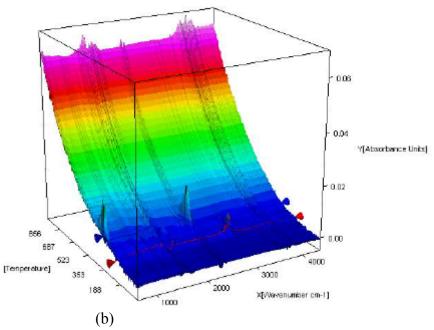


Figure. IR curve from TGA experiment of spent (a)Pt/CeO₂-Al₂O₃ and (b)Pt/MgO-Al₂O₃ used at 600° C, water to glycerol ratio of 9:1 and space velocities of 0.5 h⁻¹

We performed TGA experiments coupled with IR. As a result of the combustion the coke under air, the formation of CO_2 and H_2O is likely.