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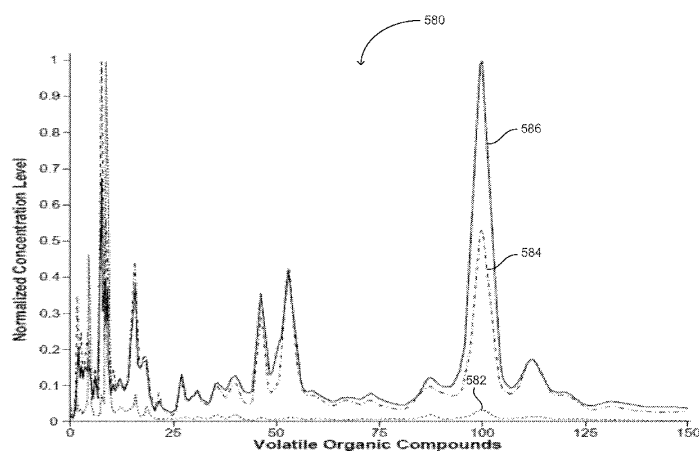


FIG. 11

(57) Abstract: Method for determining the effect of a selected treatment administered to a patient, which includes the procedures of acquiring VOC-emission-data of pre-treatment-target-cells-cultures and producing a pre-treatment-target cells-VOC-profile from the VOC-emission of the pre-treatment-target-cells-cultures. Producing an MCD-target-cells-VOC-profile by: (a) inducing MCD on non-treated target-cells-cultures thereby producing post-MCD-target-cells-cultures; and (b) acquiring VOC-emission-data of the post-MCD-target-cells-cultures. Applying the selected treatment to target-cells-cultures and acquiring VOC-emission-data of post-treatment-target-cells-cultures and determining the effect of the selected treatment. The treatment is determine as effective when: (a) concentration values from VOC-emission-data of pre-treatment-target-cells-cultures, of VOCs associated with the pre-treatment-target-cells-VOC-profile, are greater than concentration values from the VOC-emission-data of post-treatment-target-cells-cultures, of VOCs associated with the pre-treatment-target-cells-VOC profile; and (b) concentration values from VOC-emission-data of post-treatment-target-cells-

[Continued on next page]

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cultures, of VOCs associated with the MCD-target-cells-VOC-profile, emitted by the post- treatment-target-cell-cultures, are greater than concentration values from the VOC-emission-data of pre-treatment-target-cells-cultures, of VOCs associated with the MCD-target-cells-VOC-profile, emitted by the pre-treatment-target-cell cultures.