

## Supporting information

# In situ FTIR Spectroscopic Monitoring of the Formation of the Arene Diazonium Salts and its Applications to Heck-Matsuda Reaction

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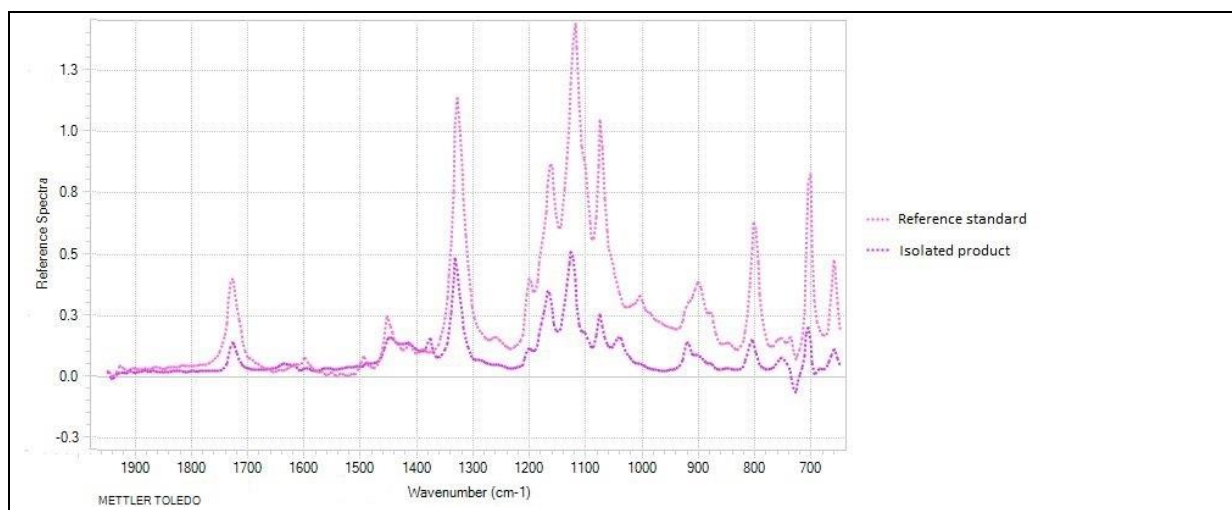
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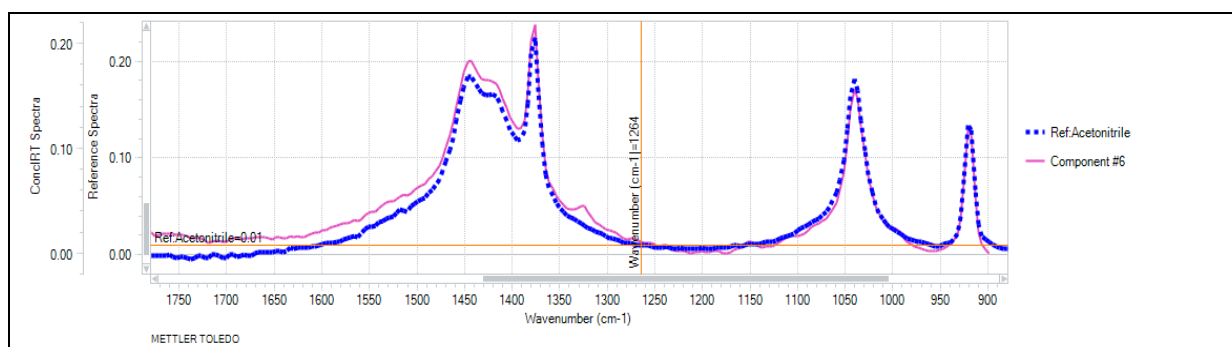
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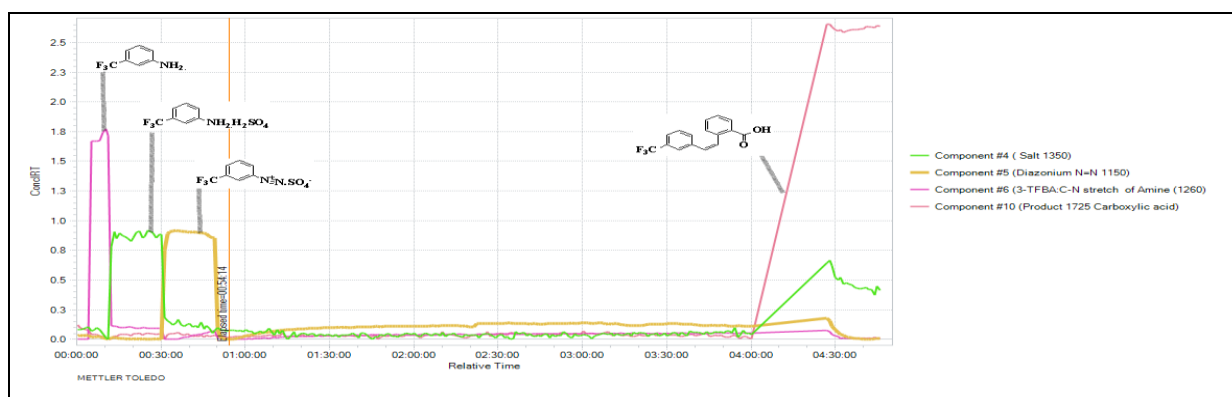
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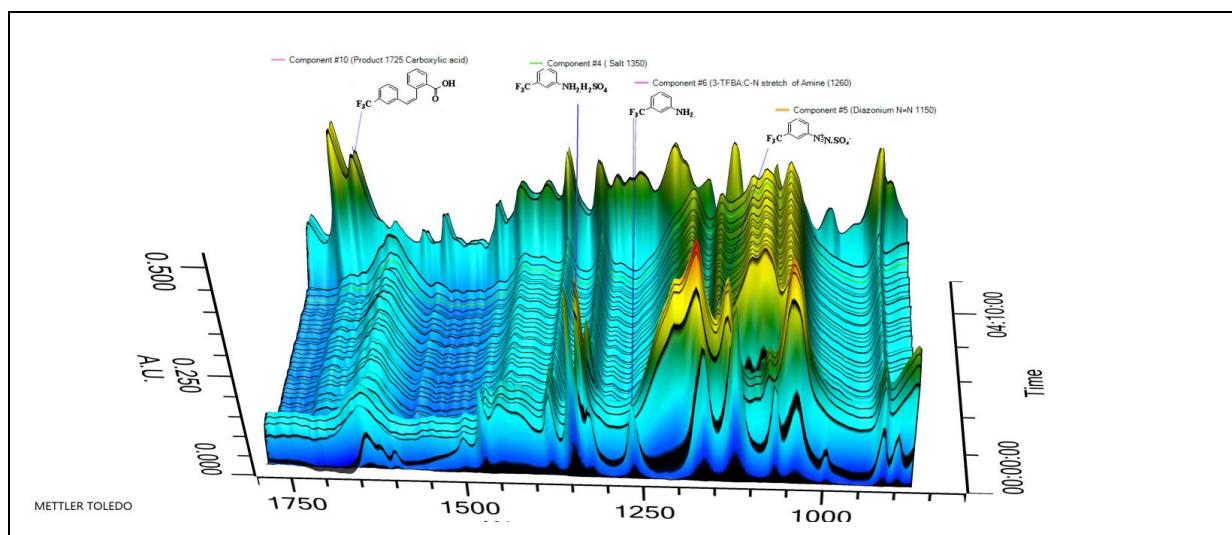
**Figure S1:** Comparison of IR spectra of standard vs isolated product



**Figure S2:** Comparison of IR spectra of Reference acetonitrile vs component 6



**Figure S3.** Trends of aryl diazonium salt formation followed by Heck-Matsuda reaction of additional example using 3-(Trifluoromethyl) aniline and 2-Vinylbenzoic acid as starting materials



**Figure S4.** 3D surface for complete Heck-Matsuda reaction using 3-(Trifluoromethyl) aniline and 2-Vinylbenzoic acid as starting materials