

Supporting Information

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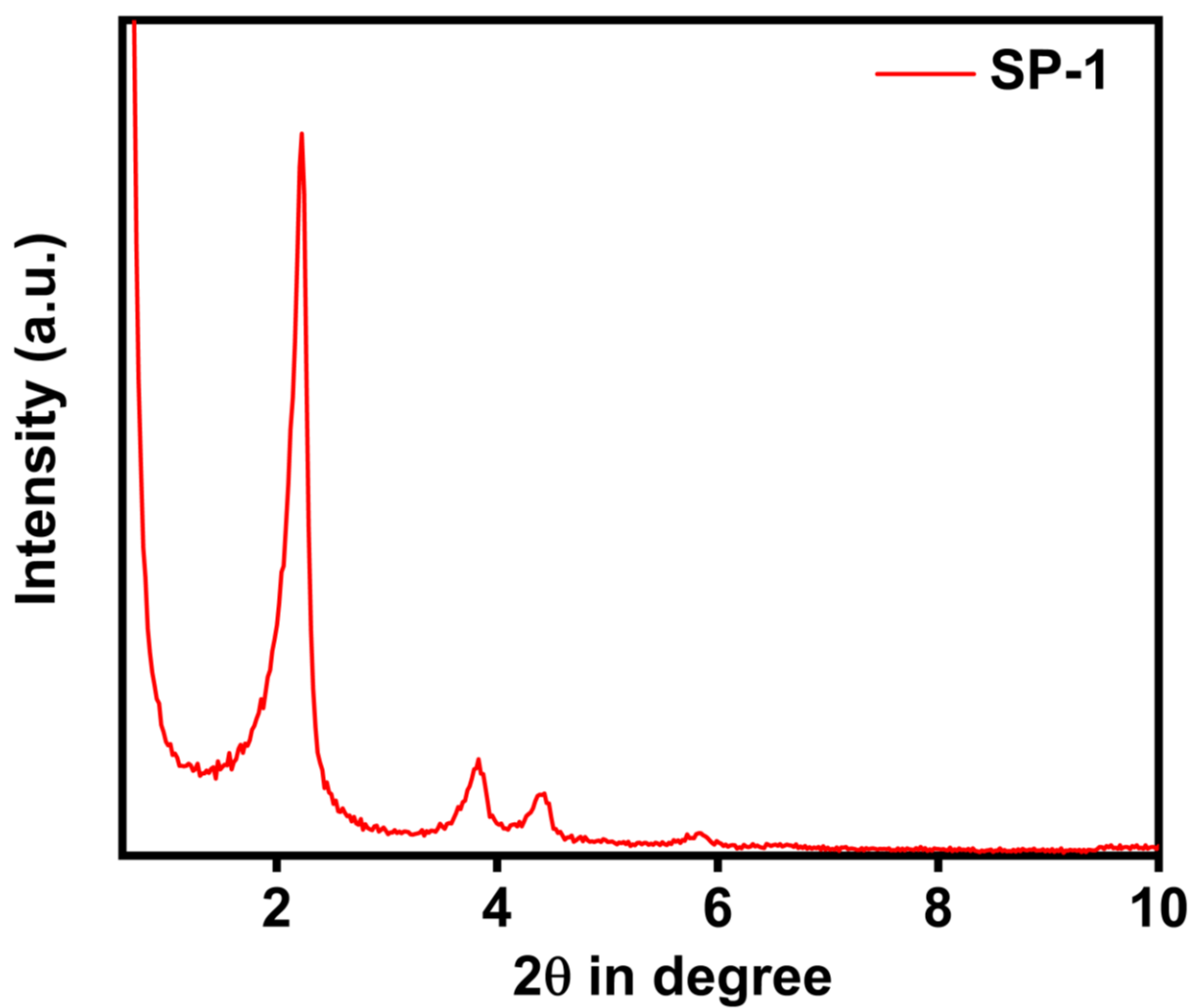


Fig-S1: Small angle powder XRD data of SP-1.

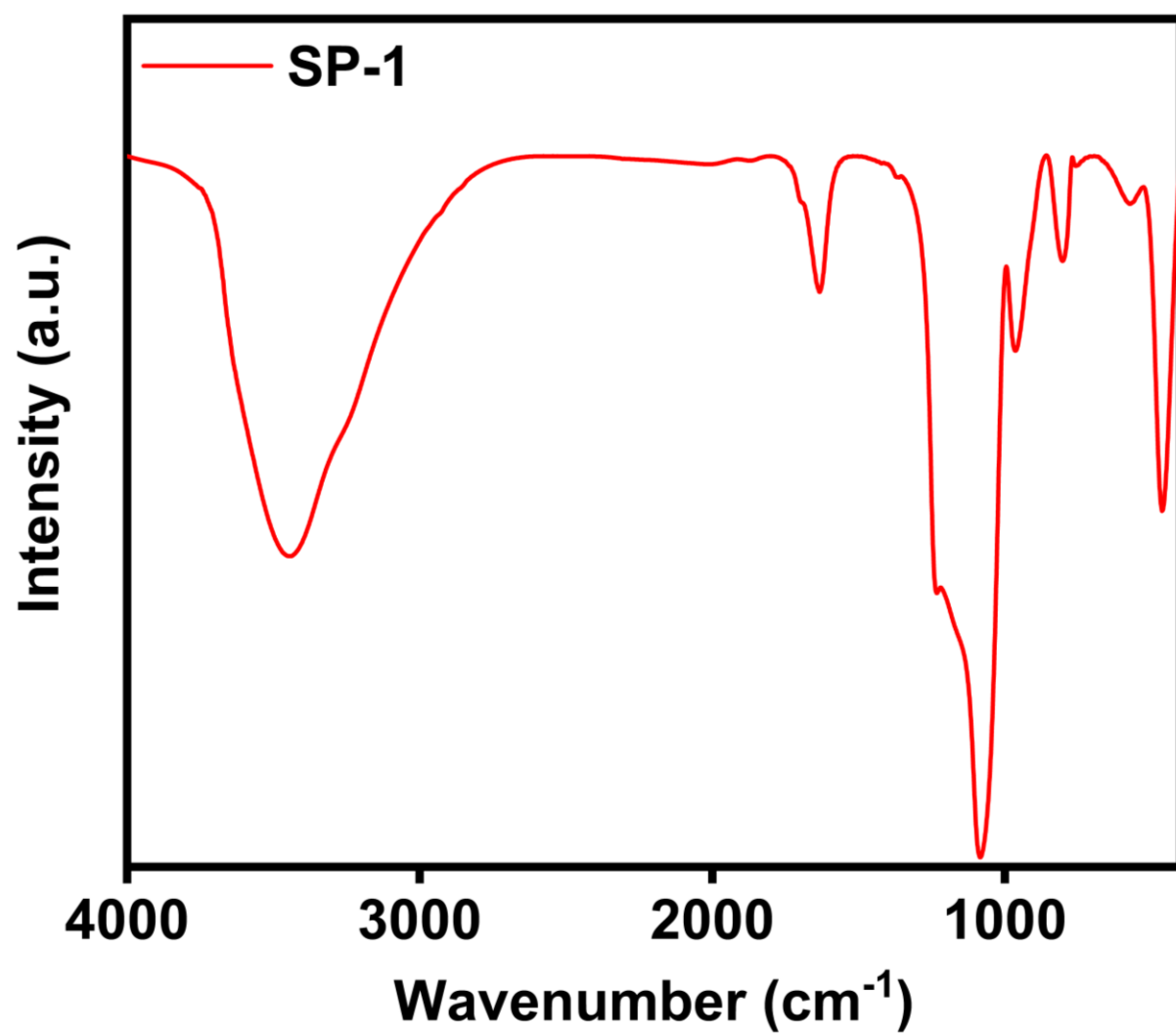


Fig-S2: FT-IR spectra of SP-1.

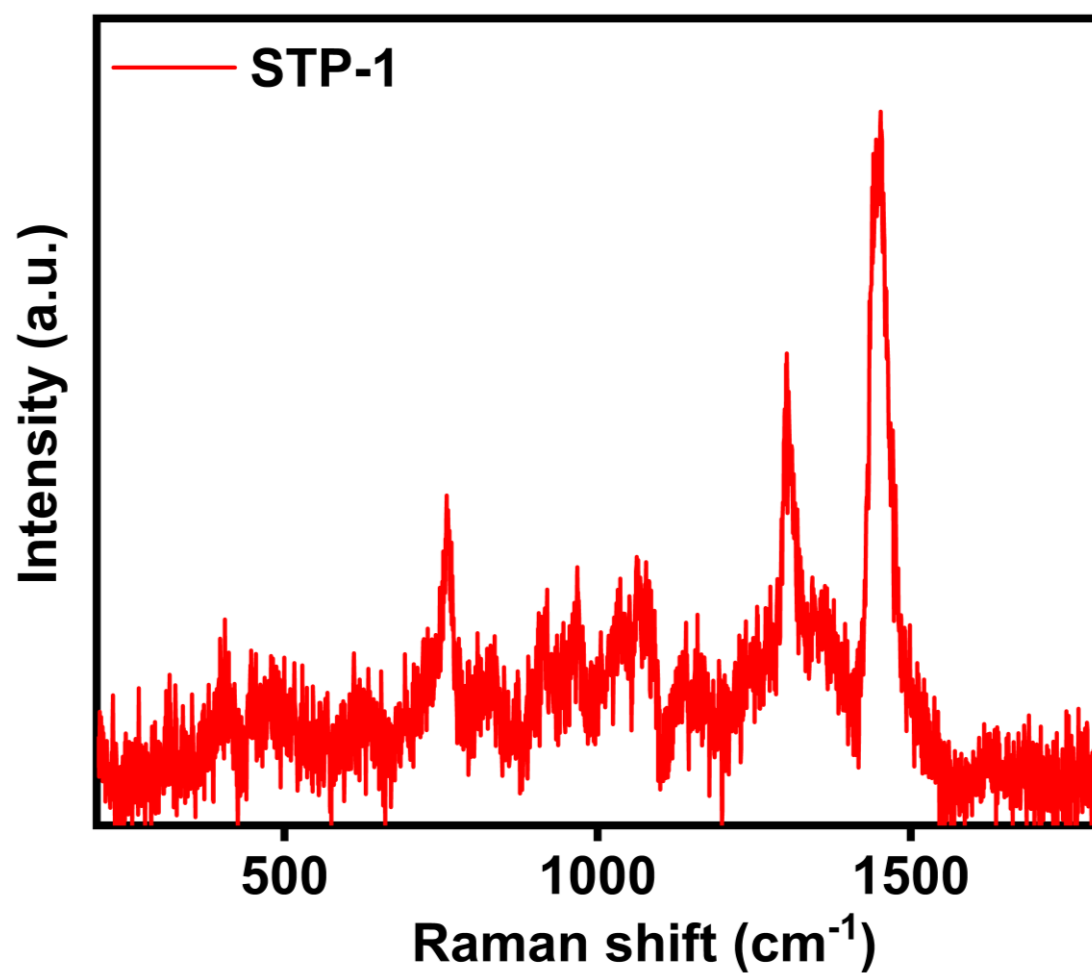


Fig-S3: Raman spectra of STP-1 sample.

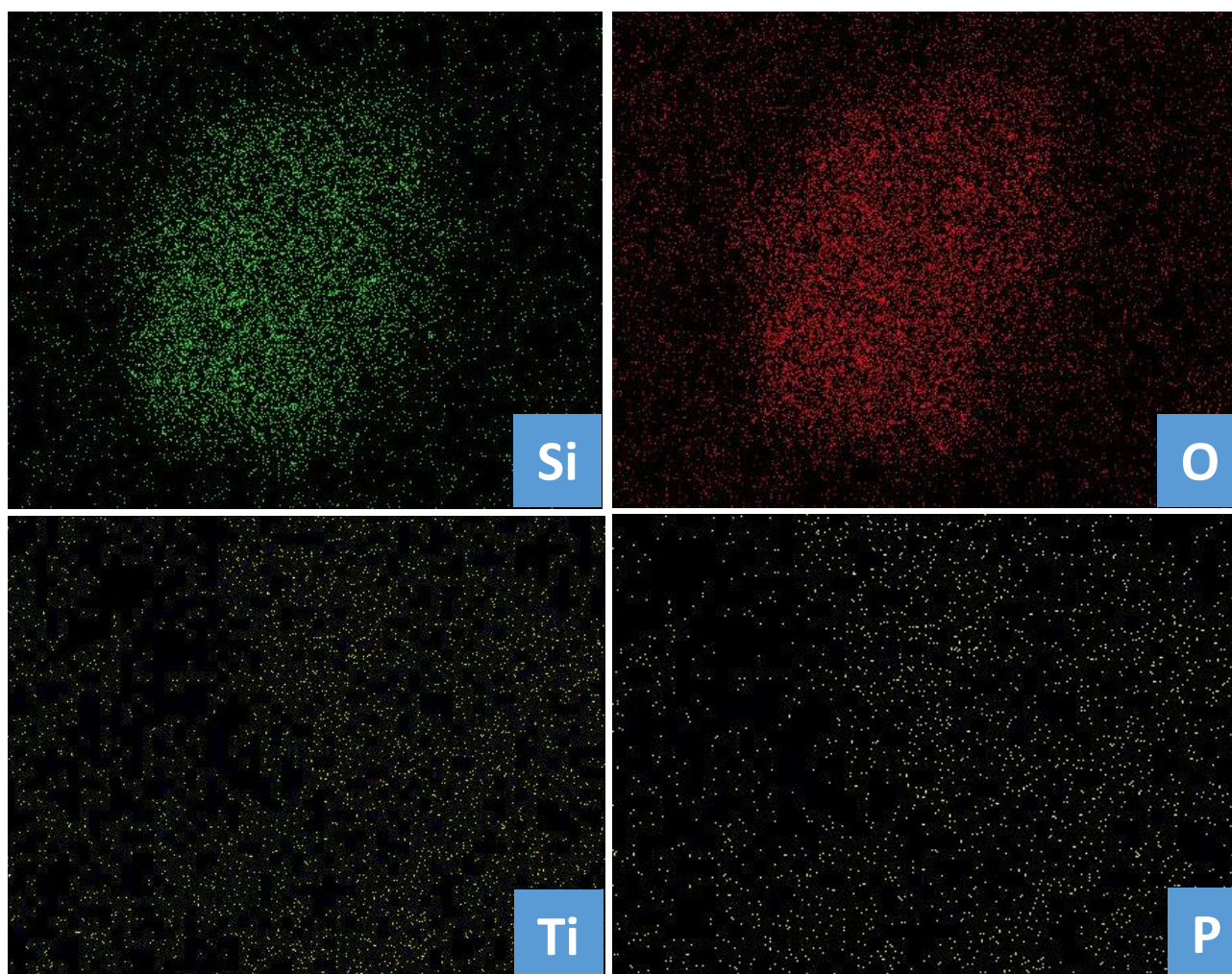


Fig-S4: Mapping of Si, O, Ti and P in STP-1 sample.

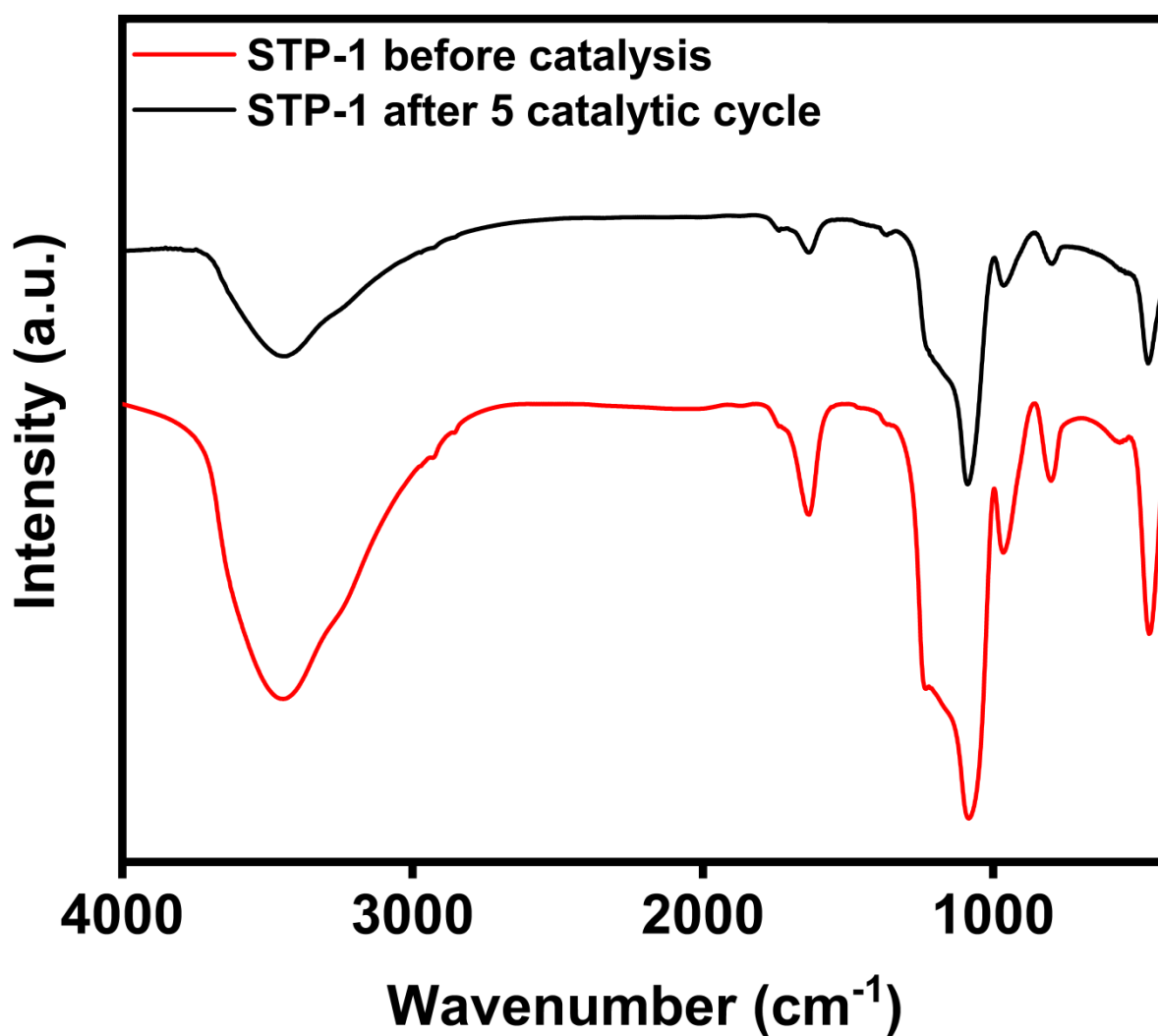


Fig-S5: FT-IR spectra of STP-1 catalyst after 5 catalytic cycles.

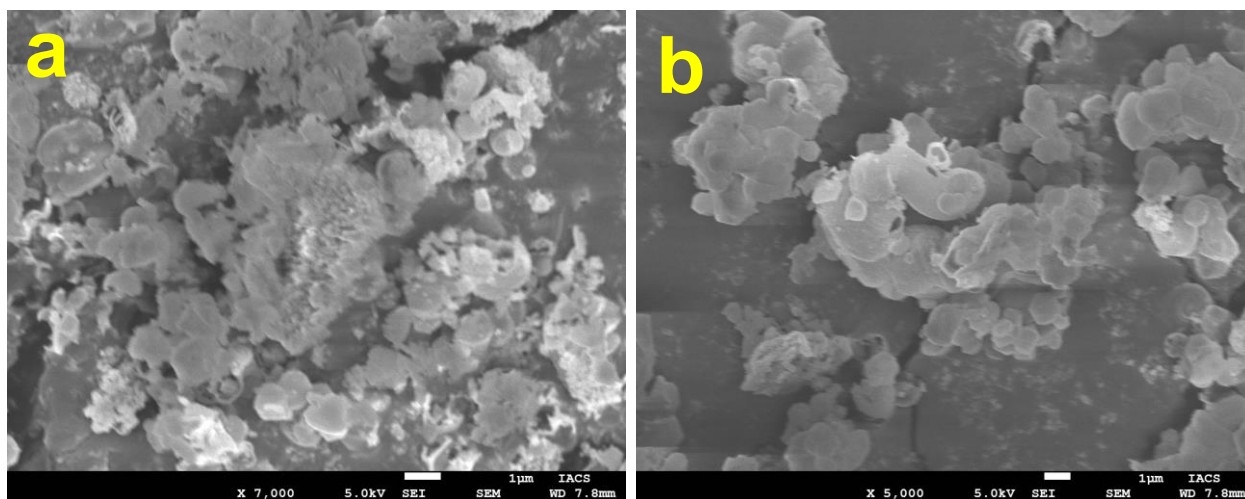


Fig-S6: FESEM images of recovered STP-1 catalyst after five catalytic cycles.

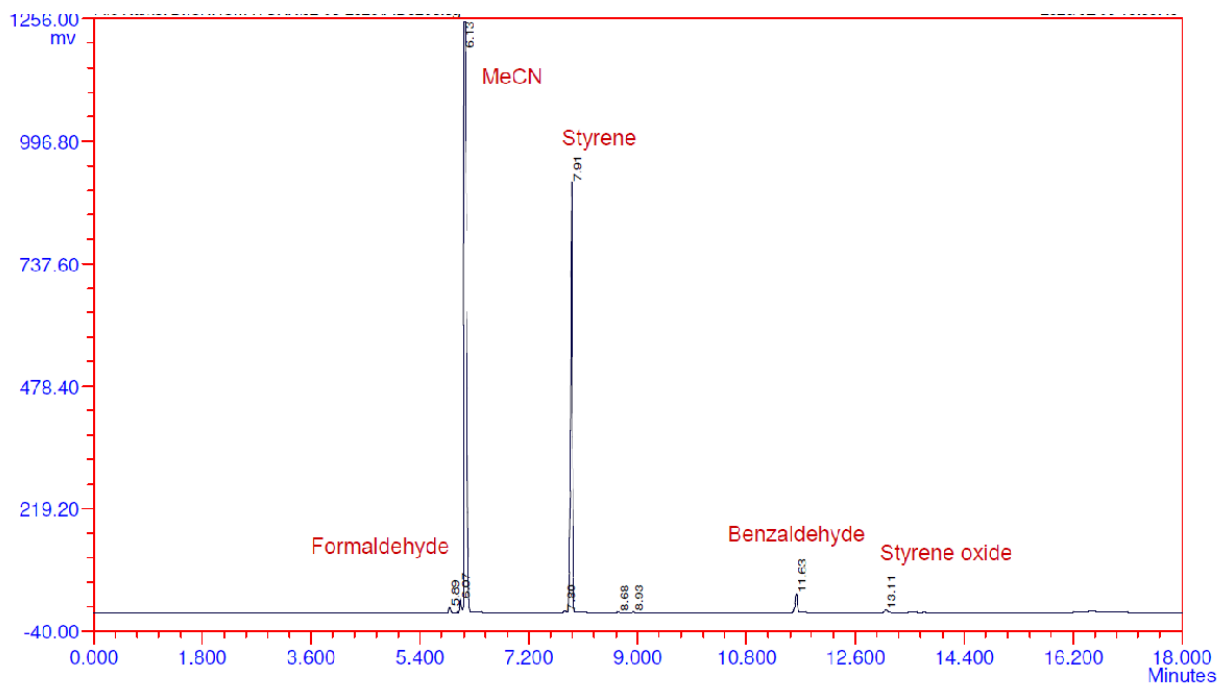


Fig-S7: GC-FID data of styrene oxidation reaction mixture after 1hr by STP-1 catalyst.

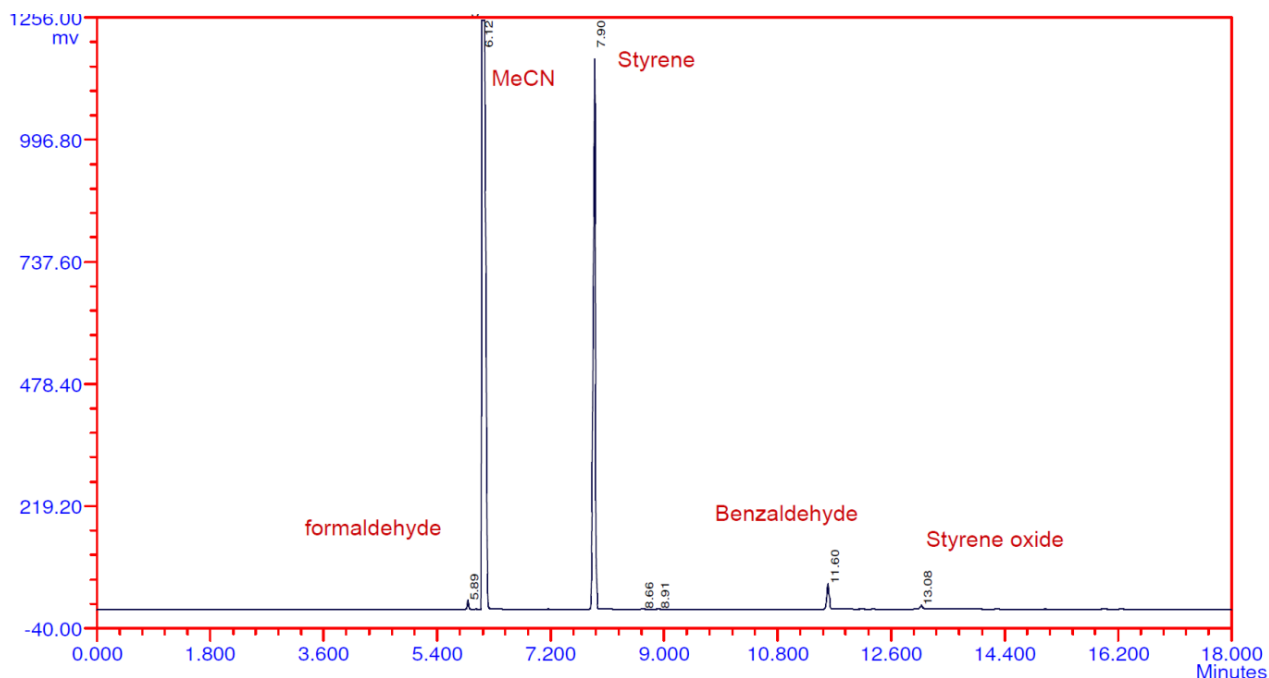


Fig-S8: GC-FID data of styrene oxidation reaction mixture after 2hr by STP-1 catalyst.

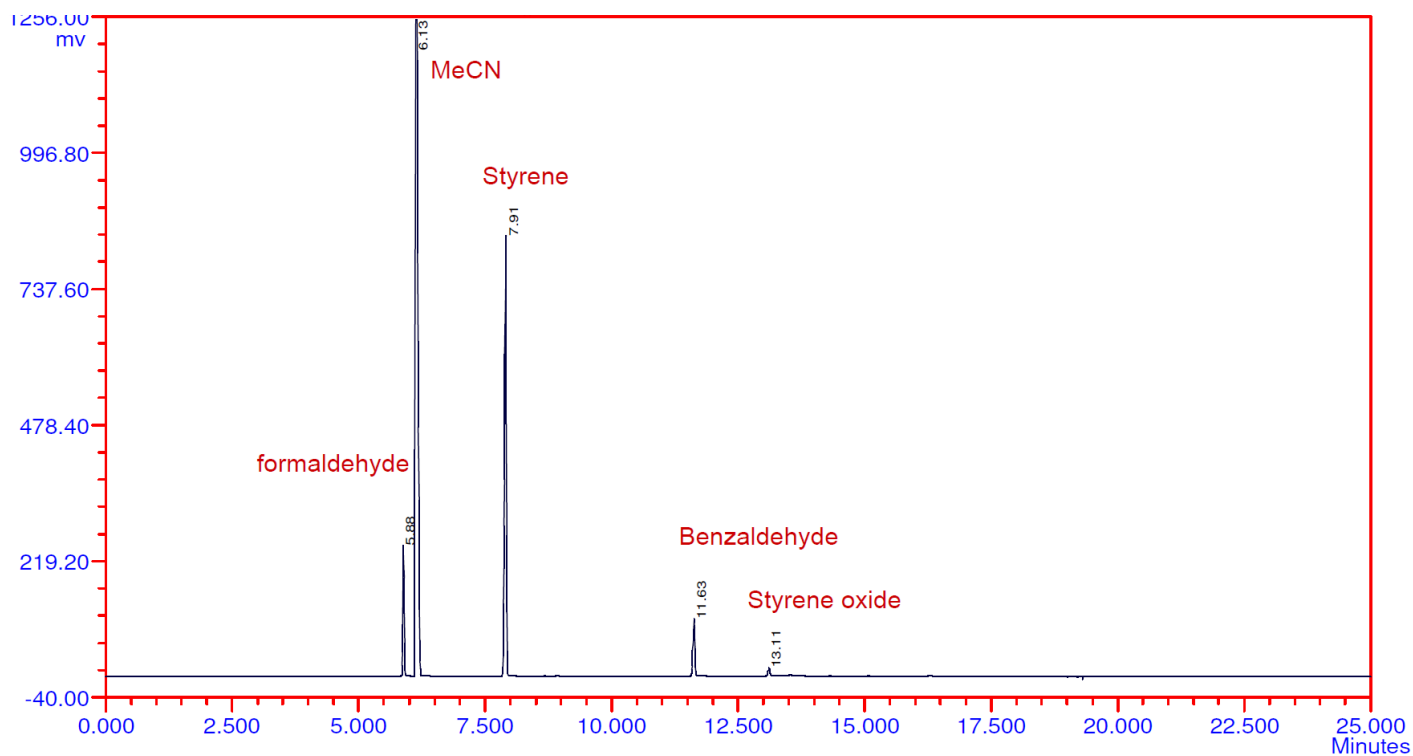


Fig-S9: GC-FID data of styrene oxidation reaction mixture after 5hr by STP-1 catalyst.

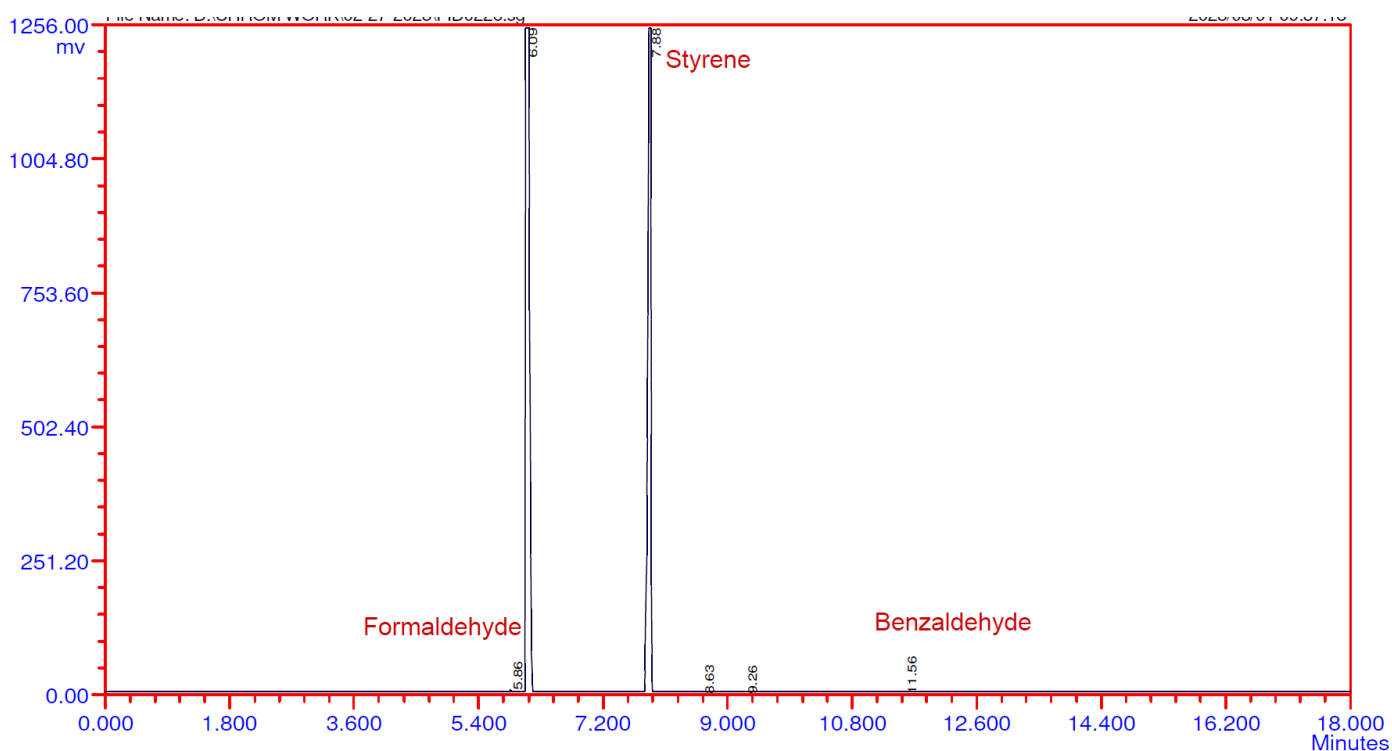


Fig-S10: GC-FID data of styrene oxidation reaction mixture after 10 h by STP-1 catalyst with O_2 used as an oxidant.

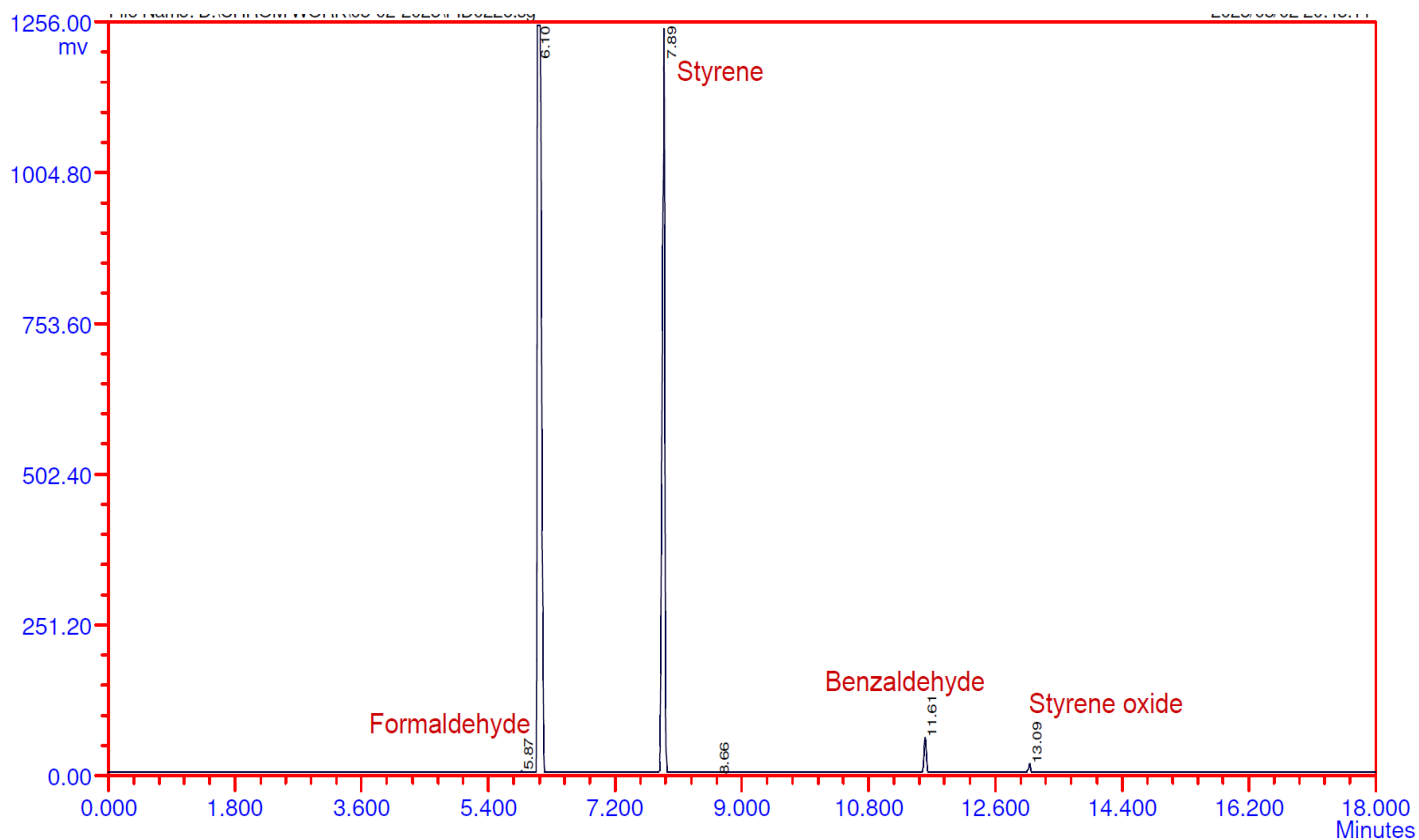


Fig-S11: GC-FID data of styrene oxidation reaction mixture after 10 h by SP-1 catalyst by H₂O₂.