Comment on amt-2022-197
Anonymous Referee #1


The authors present a detailed analysis on TROPOMI XCH4 retrievals for sun-glint type measurements. The analysis has been carried out sufficiently and the manuscript can be published as-is.

Just one small detail that might need revision is the stated enhancements over the Turkmenistan O&G facility site. In line 180, the total enhancements are stated to be 663 ppb (land) and 1816 ppb (ocean). I suspect these numbers refer to the sum of all per-pixel enhancements, but it might be nice to have that clarified with a few extra words (even though it is somewhat implicit by referring to the IME method).