A trace has been found.

Abbreviations
~X_1 = aenc(((groupkey_response,getid(3-proj-3-tuple(adec(~M_2,~M_1))),a_1,gpk(a_2)),sign((groupkey_response,getid(3-proj-3-tuple(adec(~M_2,~M_1))),a_1,gpk(a_2)),~M_1)),getpk(3-proj-3-tuple(adec(~M_2,~M_1)))) = aenc(((groupkey_response,vid_9,a_1,gpk(a_2)),sign((groupkey_response,vid_9,a_1,gpk(a_2)),cask_4)),pk(vsk_4))