Abbreviations
~X_1 = (a_3,encxor((a_4,~M_4,edhoc_kdf(hkdfextract(hash((a_3,hash((method_four,a,~M_10,a_1,a_2)))),kemdecap(a_3,~M_13)),sfour,(~M_4,hash((a_3,hash((method_four,a,~M_10,a_1,a_2)))),~M_5,a_5),hash_length),a_5),edhoc_kdf(hkdfextract(hash((a_3,hash((method_four,a,~M_10,a_1,a_2)))),kemdecap(a_3,~M_13)),stwo,hash((a_3,hash((method_four,a,~M_10,a_1,a_2)))),plaintext_length))) = (a_3,encxor((a_4,id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),edhoc_kdf(hkdfextract(hash((a_3,hash((method_four,a,kempk(X_1),a_1,a_2)))),kemdecap(a_3,X_1)),sfour,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),hash((a_3,hash((method_four,a,kempk(X_1),a_1,a_2)))),pk(sk_5),a_5),hash_length),a_5),edhoc_kdf(hkdfextract(hash((a_3,hash((method_four,a,kempk(X_1),a_1,a_2)))),kemdecap(a_3,X_1)),stwo,hash((a_3,hash((method_four,a,kempk(X_1),a_1,a_2)))),plaintext_length)))

A trace has been found.