Abbreviations
~M_8 = kemcipher(kemencap(Y_1,a_5))
~M_9 = encxor((a,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),(edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),sfour,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),pk(sk_5),a_1),hash_length),a_1))),edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),stwo,hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),plaintext_length))
~X_1 = aeadenc((~M,(edhoc_kdf(hkdfextract(hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(~M_10,a_5))),seight,(~M,hash((hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),((a,(~M_4,(edhoc_kdf(hkdfextract(hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(~M_10,a_5))),sfour,(~M_4,hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),~M_5,a_1),hash_length),a_1))),~M_5))),~M_1,a_8),hash_length),a_8)),a_9,edhoc_kdf(hkdfextract(hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(~M_10,a_5))),sfive,hash((hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),((a,(~M_4,(edhoc_kdf(hkdfextract(hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(~M_10,a_5))),sfour,(~M_4,hash((~M_8,hash((method_four,(a_4,(a_5,(a_6,a_7))))))),~M_5,a_1),hash_length),a_1))),~M_5))),iv_length)) = aeadenc((id(pk(sk_4),ltdh,kempk(sk_auth_kem)),(edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),seight,(id(pk(sk_4),ltdh,kempk(sk_auth_kem)),hash((hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),((a,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),(edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),sfour,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),pk(sk_5),a_1),hash_length),a_1))),pk(sk_5)))),(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),(edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),sfive,hash((hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),((a,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),(edhoc_kdf(hkdfextract(hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),kemkey(kemencap(Y_1,a_5))),sfour,(id(pk(sk_5),ltdh_3,kempk(sk_auth_kem_3)),hash((kemcipher(kemencap(Y_1,a_5)),hash((method_four,(a_4,(a_5,(a_6,a_7))))))),pk(sk_5),a_1),hash_length),a_1))),pk(sk_5)))),iv_length))

A trace has been found.