Client	Server
static $(KEM_C): pk_C, sk_C$	static $(KEM_S)$ : $pk_S, sk_S$
Knows: $pk_S$	Knows: $pk_C$
$(pk_e, sk_e) \leftarrow KEM_e.Keygen()$	
$(ss_S, ct_S) \leftarrow KEM_S.Encap(pk_S)$	
$K_s \leftarrow KDF(ss_S) $ $ct_S , AEAD_{K_S}.Enc(pk_e)$	
$(s_{\cdot})$	$c_{SS} \leftarrow KEM_S.Decap(ct_S, sk_S)$ $c_{SS} \leftarrow KEM_S.Decap(ct_S, sk_S)$ $c_{Se} \leftarrow AEAD_{K_S}.Dec(ct_{pk_e})$ $c_{Se} \leftarrow c_{Se} \leftarrow KEM_e.Encap(pk_e)$ $c_{Se} \leftarrow c_{Se} \leftarrow KEM_c.Encap(pk_C)$ $c_{Se} \leftarrow KDF(ss_S  ss_e)$
$ct_C$ , $AEAD_{K_1}.Enc(ct_e)$	
$ss_{C} \leftarrow KEM_{C}.Decap(ct_{C}, sk_{C})$ $ct_{e} \leftarrow AEAD_{K_{1}}.Dec(ct_{ct_{e}})$ $ss_{e} \leftarrow KEM_{e}.Decap(ct_{e}, sk_{e})$ $K_{1} \leftarrow KDF(ss_{S}  ss_{e})$	
$K_2, K_2', K_2'', K_2''' \leftarrow KDF(ss_S  ss_e  ss_C)$ $AEAD_{K_2}.Enc(\text{key confirmation})$	
$AEAD_{K_{2}^{\prime}}.Enc(application data)$	
$AEAD_{K_{2}^{\prime\prime}}.Enc(\text{key confirmation})$	
$AEAD_{K_{2}^{\prime\prime\prime}}.Enc(application data)$	