***Proposal 2: For EVM for FDD CSI enhancement in Rel-17, use following Alt 1 as the baseline and Alt 2 as the optional***

***- Alt 1: based on Section 5.3 of TR 36.897, to generate FDD DL and UL channels.***

***- Alt 2: based on Section 7.6.5 of TR 38.901, to generate FDD DL and UL channels with following modifications:***

* ***Different per-cluster shadowing is generated for DL and UL, and DL (or UL) angles are generated based on DL (or UL) cluster powers. Then UL (or DL) uses the same angles and its own cluster powers to generate the channel matrix.***
* ***XPR is generated independently for DL and UL.***

***Proposal 4: For EVM for FDD CSI enhancement in Rel-17, using the following calibration error model***

$$\hat{H}\_{UL}=H\_{UL}⋅E=H\_{UL}⋅\left(\begin{matrix}a\_{1}e^{jθ\_{1}}&\cdots &0\\\vdots &\ddots &\vdots \\0&\cdots &a\_{N}e^{jθ\_{N}}\end{matrix}\right)$$

* $\hat{H}\_{UL}$ ***is the spatial UL channel at gNB side with calibration error***
* $H\_{UL}$ ***is the ideal spatial UL channel without calibration error***
* ***E represents the mismatch of transmission and reception circuits of gNB***
* $a\_{i}$ ***is the amplitude error***
* $θ\_{i}$ ***is the phase error***
* ***N is the number of antennas at gNB side***

***With amplitude error (expressed in decibel of*** $x=20log\_{10}a$***) and phase error are normal distribution with 0.7dB and 5 degrees standard deviation, respectively. Both amplitude/phase errors are assumed to be constant during a simulation drop at time, and constant either across whole simulation bandwidth or per 4 PRB at frequency. Companies shall report the assumption of error modelling at frequency.***