Table 1 Simulation parameters

Basic parameters	3GPP TS 38.101 Clause 5.2.3.1.1 Test 4-1				
Modified parameters	No precoding, same information bit payload and binary channe				
	bits for every slot, correlated receive antenna noise				
Data type	Floating point				
Channel estimation,	Perfect				
synchronization and					
noise covariance					
matrix estimation					
Equalizer type	MIMO decoder				
LDPC decoder	Belief propagation with 12 iterations				

For simplicity, a noise covariance matrix of $\begin{bmatrix} 1 & \beta^{1/9} & \beta^{4/9} & \beta \\ \beta^{1/9} & 1 & \beta^{1/9} & \beta^{4/9} \\ \beta^{4/9} & \beta^{1/9} & 1 & \beta^{1/9} \\ \beta^* & \beta^{4/9} & \beta^{1/9} & 1 \end{bmatrix}$ is applied with $\beta=$

0.3874 for medium correlated case and $\beta = 0.9$ for high correlated case.

Table 2 Required SNR (dB) at 70% of the maximum throughput for medium correlated noise

Modulation schemes and MIMO correlation matrix configurations	Low	Medium-A	Medium	High	Simulation duration (10 ms)
QPSK	-8	8.5	13.6	17.9	100
16QAM	3.3	-	-	-	50
64QAM	11.1	-	-	-	10
256QAM	18.5	-	-	-	10
Note	-				

Table 3 Required SNR (dB) at 70% of the maximum throughput for high correlated noise

Modulation schemes and MIMO correlation matrix configurations	Low	Medium-A	Medium	High	Simulation duration (10 ms)
QPSK	-31.3	-11	0.8	1.7	100
16QAM	-13.6	-	-	-	50
64QAM	-0.3	-	-	-	10
256QAM	13.2	-	-	-	10

dithin contains