# Annex B: Evaluations results

## B.1 Link level evaluation results

### B.1.1 Evaluation results for PDSCH/PUSCH

Table B.1.1-1: LLS template: SINR in dB achieving PDSCH BLER of 10% /1%

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tdoc /Source | MCS | Channel | 120KHz/400MHz | 240KHz/400MHz | 480KHz/400MHz | 960KHz/400MHz | 960KHz/2GHz |
| R1-xxxxxxx / Source 1 | 7 | TDL-A, 5ns | 3.2/ 6 (X for 10% BLER, Y for 1% BLER) | 3.1/5.6 | 3.1/5.8 | 3.2/5.4 | 1.9/3.4 |
| TDL-A, 10ns | 2.7/4.7 | 2.6/4.7 | 2.6/4.6 | 2.6/4.9 | 2/3.2 |
| TDL-A, 20ns | 2.3/4.2 | 2.3/4.1 | 2.4/4.2 | 2.6/4.5 | 1.8/3.1 |
| CDL-B, 20ns |  |  |  |  |  |
| CDL-B, 50ns |  |  |  |  |  |
| CDL-D, 20ns |  |  |  |  |  |
| CDL-D, 30ns |  |  |  |  |  |
| 16 | TDL-A, 5ns | 11.9/14.6 | 11.4/14 | 11/13.3 | 10.9/13.4 | 9.9/11.4 |
| TDL-A, 10ns | 11.2/13.4 | 10.7/13 | 10.3/12.2 | 10.3/12.5 | 9.8/11.2 |
| TDL-A, 20ns | 11.1/13.3 | 10.4/12.1 | 10.1/11.9 | 10.4/12.5 | 9.9/11.5 |
| CDL-B, 20ns |  |  |  |  |  |
| CDL-B, 50ns |  |  |  |  |  |
| CDL-D, 20ns |  |  |  |  |  |
| CDL-D, 30ns |  |  |  |  |  |
| 22 | TDL-A, 5ns | inf/inf | inf/inf | 17.5/20.9 | 16.2/18.6 | 16.2/19.0 |
| TDL-A, 10ns | inf/inf | inf/inf | 17.1/20.7 | 16.1/18.2 | 16.1/18.2 |
| TDL-A, 20ns | inf/inf | inf/inf | 16.8/19.3 | 16.1/18.1 | 17.3/20.5 |
| CDL-B, 20ns |  |  |  |  |  |
| CDL-B, 50ns |  |  |  |  |  |
| CDL-B, 20ns |  |  |  |  |  |
| CDL-B, 50ns |  |  |  |  |  |
| Additional report/notes:1. CP type normal
2. antenna configuration for CDL model
3. waveform in case of PUSCH
4. PTRS configuration every 2nd RB (CPE compensation)
5. DMRS configuration front-loaded
6. any optional or other assumption/parameters used not as in the baseline
 |

## B.2 System level evaluation results

Table B.2-1: System level evaluation results for scenario

|  |  |  |  |
| --- | --- | --- | --- |
| Tdoc /Source | Cases | Case 1(DL:UL 50:50, No-LBT) |  Case 2(DL:UL 50:50, Omni-LBT) |
| R1-xxxxxxx / Source 1 | Traffic loadMetrics  | Low load | Medium load | High load | Low load | Medium load | High load |
| DL UPT (Mbps) | 5%ile | 2362 | 1187 | 631 | 2344 | 987 | 490 |
| 50%ile | 9137 | 5266 | 3083 | 8720 | 4391 | 2313 |
| 95%ile | 19548 | 16680 | 13333 | 18462 | 14979 | 11405 |
| mean | 9857 | 6843 | 4444 | 9280 | 5767 | 3544 |
| DL delay (ms) | 5%ile | 11 | 13 | 16 | 12 | 14 | 19 |
| 50%ile | 24 | 41 | 70 | 25 | 49 | 93 |
| 95%ile | 91 | 181 | 341 | 92 | 219 | 440 |
| mean | 34 | 61 | 111 | 35 | 74 | 143 |
| UL UPT (Mbps) | 5%ile | 1528 | 870 | 508 | 1484 | 682 | 342 |
| 50%ile | 4080 | 3198 | 2246 | 4041 | 2723 | 1721 |
| 95%ile | 7654 | 6968 | 6175 | 9643 | 6704 | 5456 |
| mean | 4297 | 3527 | 2723 | 4207 | 3107 | 2218 |
| UL delay (ms) | 5%ile | 28 | 31 | 35 | 22 | 32 | 40 |
| 50%ile | 53 | 68 | 96 | 53 | 79 | 125 |
| 95%ile | 141 | 247 | 424 | 144 | 317 | 630 |
| mean | 65 | 94 | 146 | 66 | 112 | 189 |
| Arrival rate (files/s) | 1.5 | 2.75 | 4 | 1.5 | 2.75 | 4 |
| BO | 25% | 54% | 78% | 25% | 58% | 82% |
| Additional report/notes:1. LBT Procedures: No-LBT, Omni-LBT and Directional LBT
2. Cases:
	1. Case 1: No-LBT, DL:UL 50:50
	2. Case-2: Omni-LBT, DL:UL 50:50
 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tdoc /Source | Cases | Case 3 | Case 4 | Case 5 |
| R1-xxxxxxx / Source 1 | Traffic loadMetrics  | Low load | Medium Load | Low Load  | Medium Load | Low Load | Medium Load |
| DL UPT (Mbps) | 5%ile | 2627 | 902 | 2388 | 861 | 2748 | 1050 |
| 50%ile | 9630 | 5859 | 8675 | 4954 | 9122 | 5352 |
| 95%ile | 19548 | 17116 | 17575 | 15021 | 17955 | 15201 |
| mean | 10204 | 7072 | 9178 | 6076 | 9596 | 6441 |
| DL delay (ms) | 5%ile | 11 | 13 | 12 | 14 | 12 | 14 |
| 50%ile | 22 | 37 | 25 | 44 | 24 | 40 |
| 95%ile | 82 | 239 | 90 | 251 | 78 | 205 |
| mean | 31 | 69 | 35 | 77 | 31 | 65 |
| Arrival rate (files/s) | 2.0 | 3.5 | 2.0 | 3.5 | 2.0 | 3.5 |
| BO | 23.4% | 56% | 26.2% | 57.5% | 24.1% | 58 |
| Additional report/notes:1. LBT Procedures: No-LBT, Omni-LBT and Directional LBT
2. Cases documented:
	1. Case 3: No-LBT, DL:UL 100:0
	2. Case 4: Omni-LBT, DL:UL 100:0
	3. Case 5: Directional-LBT, DL:UL 100:0
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Note: companies are encouraged to also submit RSRP distribution (e.g. serving BS to UE links, BS-to-BS links, UE-to-UE links) for the evaluated scenario in SLS.