

CHIP 722 TX Length and ShortGI Test Report

版本 1.0

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## 测试条件

测试 11b/g/n 所有速率

测试长度：

11b/g：[100, 1024, 4095, 12095]；

11n：[100, 1024, 4095, 12095]

测试信道： 14

## CHIP722 A 测试结果

### Short GI 模式的 EVM

Short GI 和 Long GI 的 EVM 是一致的。

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| channel | cbw40 | short\_gi | rate | Pocket\_length | power | evm |
| 14 | 0 | 0 | 11m | 100 | 18.46 | -25.11 |
| 14 | 0 | 0 | 11m | 1024 | 18.57 | -25.2 |
| 14 | 0 | 0 | 11m | 4095 | 18.52 | -25.22 |
| 14 | 0 | 0 | 11ms | 100 | 18.59 | -24.97 |
| 14 | 0 | 0 | 11ms | 1024 | 18.61 | -25.2 |
| 14 | 0 | 0 | 11ms | 4095 | 18.53 | -25.09 |
| 14 | 0 | 0 | 6m | 100 | 18.37 | -18.97 |
| 14 | 0 | 0 | 6m | 1024 | 18.38 | -18.21 |
| 14 | 0 | 0 | 6m | 4095 | 18.39 | -17.82 |
| 14 | 0 | 0 | 54m | 100 | 14.15 | -29.37 |
| 14 | 0 | 0 | 54m | 1024 | 14.12 | -28.58 |
| 14 | 0 | 0 | 54m | 4095 | 14.19 | -27.72 |
| 14 | 0 | 0 | mcs0 | 100 | 18.15 | -17.99 |
| 14 | 0 | 0 | mcs0 | 1024 | 18.18 | -18.12 |
| 14 | 0 | 0 | mcs0 | 4095 | 18.21 | -18.05 |
| 14 | 0 | 0 | mcs0 | 12095 | 18.23 | -17.86 |
| 14 | 0 | 1 | mcs0\_sgi | 100 | 18.04 | -18.15 |
| 14 | 0 | 1 | mcs0\_sgi | 1024 | 18.09 | -18.26 |
| 14 | 0 | 1 | mcs0\_sgi | 4095 | 18.11 | -18.2 |
| 14 | 0 | 1 | mcs0\_sgi | 12095 | 18.13 | -17.97 |
| 14 | 1 | 0 | mcs0\_40 | 100 | 17.84 | -18.68 |
| 14 | 1 | 0 | mcs0\_40 | 1024 | 17.87 | -19.31 |
| 14 | 1 | 0 | mcs0\_40 | 4095 | 17.89 | -19.27 |
| 14 | 1 | 0 | mcs0\_40 | 12095 | 17.91 | -18.79 |
| 14 | 1 | 1 | mcs0\_40\_sgi | 100 | 17.81 | -18.75 |
| 14 | 1 | 1 | mcs0\_40\_sgi | 1024 | 17.83 | -19.38 |
| 14 | 1 | 1 | mcs0\_40\_sgi | 4095 | 17.85 | -19.25 |
| 14 | 1 | 1 | mcs0\_40\_sgi | 12095 | 17.87 | -18.95 |
| 14 | 0 | 0 | mcs7 | 100 | 12.93 | -29.77 |
| 14 | 0 | 0 | mcs7 | 1024 | 12.94 | -29.75 |
| 14 | 0 | 0 | mcs7 | 4095 | 12.96 | -28.98 |
| 14 | 0 | 0 | mcs7 | 12095 | 12.99 | -28.25 |
| 14 | 0 | 1 | mcs7\_sgi | 100 | 12.85 | -29.59 |
| 14 | 0 | 1 | mcs7\_sgi | 1024 | 12.85 | -29.54 |
| 14 | 0 | 1 | mcs7\_sgi | 4095 | 12.88 | -29.42 |
| 14 | 0 | 1 | mcs7\_sgi | 12095 | 12.91 | -28.56 |
| 14 | 1 | 0 | mcs7\_40 | 100 | 13.1 | -29.6 |
| 14 | 1 | 0 | mcs7\_40 | 1024 | 13.11 | -28.82 |
| 14 | 1 | 0 | mcs7\_40 | 4095 | 13.12 | -28.34 |
| 14 | 1 | 0 | mcs7\_40 | 12095 | 13.08 | -28.48 |
| 14 | 1 | 1 | mcs7\_40\_sgi | 100 | 13.08 | -29.49 |
| 14 | 1 | 1 | mcs7\_40\_sgi | 1024 | 13.08 | -28.67 |
| 14 | 1 | 1 | mcs7\_40\_sgi | 4095 | 13.08 | -28.53 |
| 14 | 1 | 1 | mcs7\_40\_sgi | 12095 | 13.04 | -28.47 |

### 不同长度的 EVM

从2.1 表格中看到，长度为 100 bytes 时的 EVM 比长度较长时好 1dbm。原因待查。