

Report No.: SEWA2309000114RG01

Rev.: 01

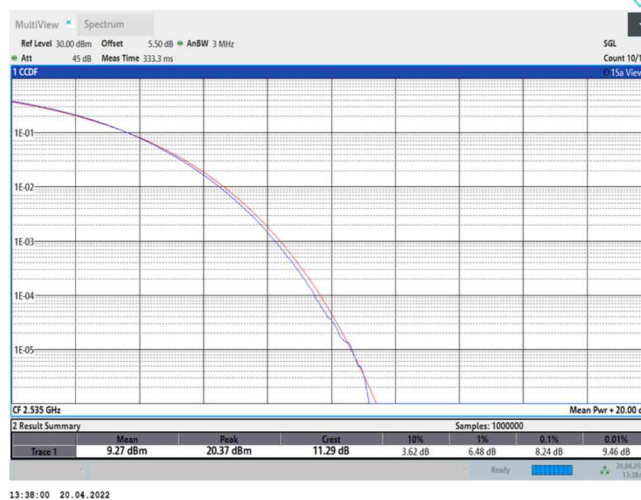
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## Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



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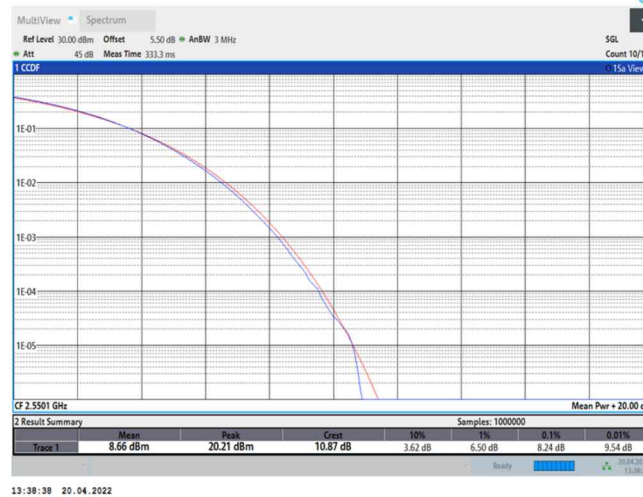
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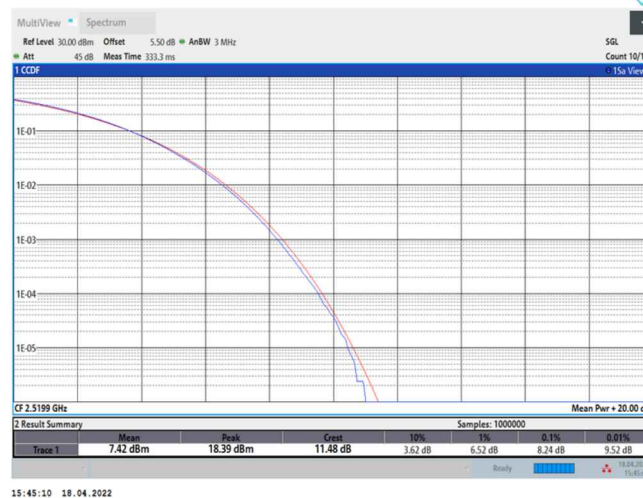
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## 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



## 7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



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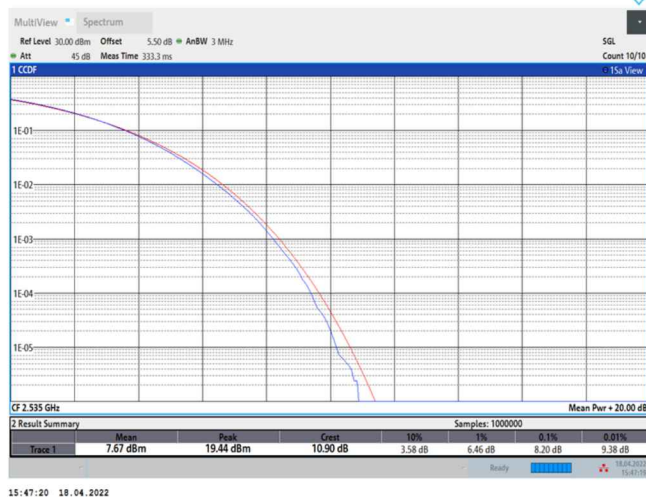
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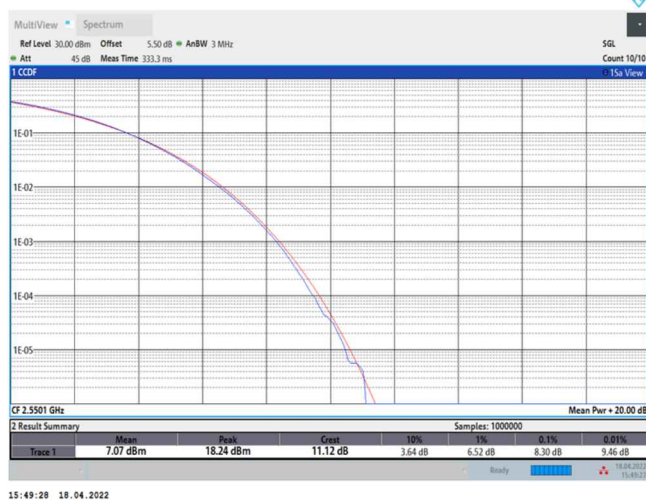
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### 7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



### 7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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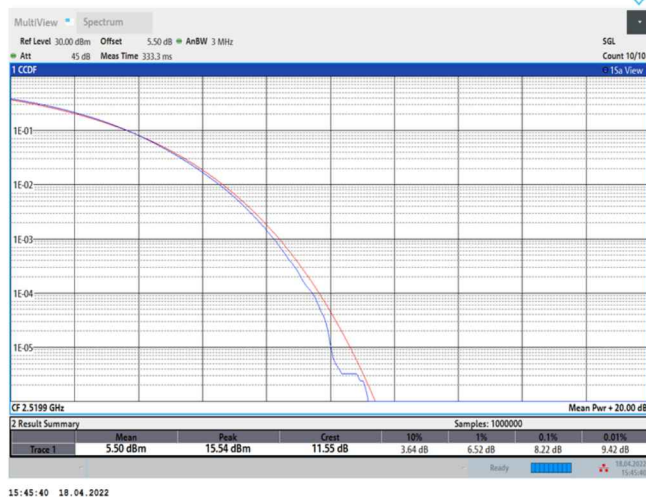
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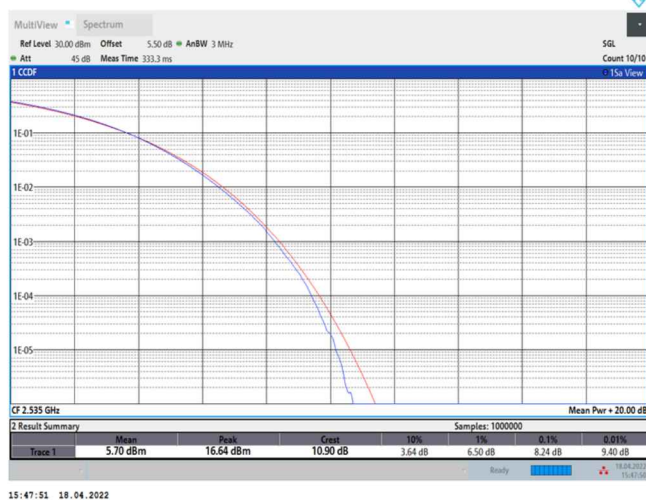
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### 7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



### 7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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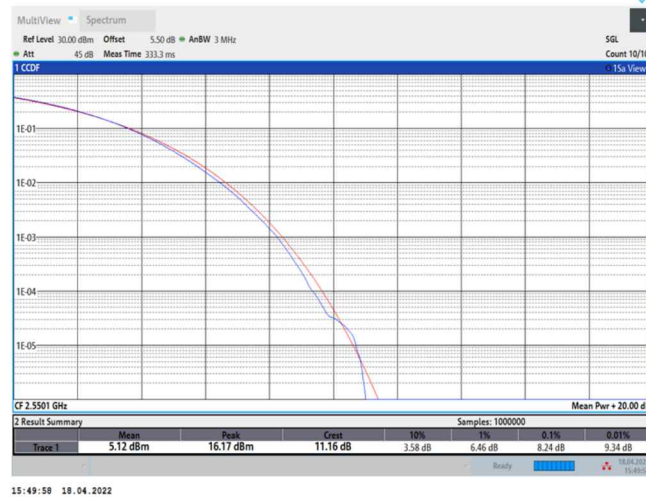
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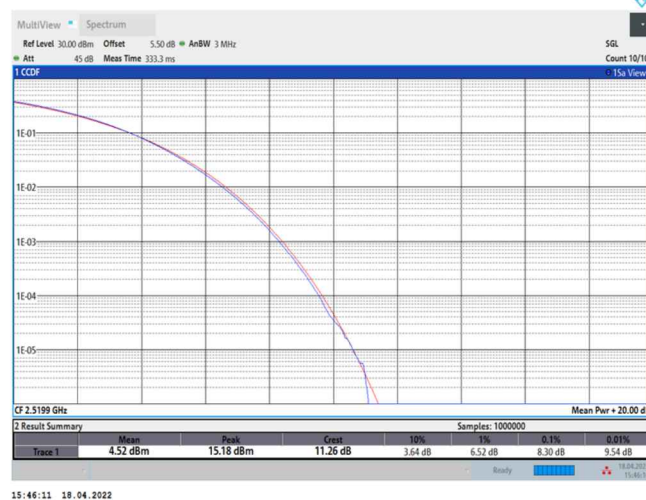
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### 7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



### 7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



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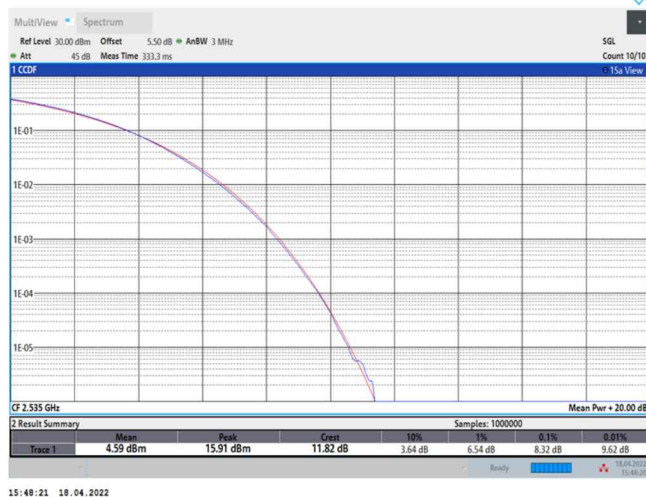
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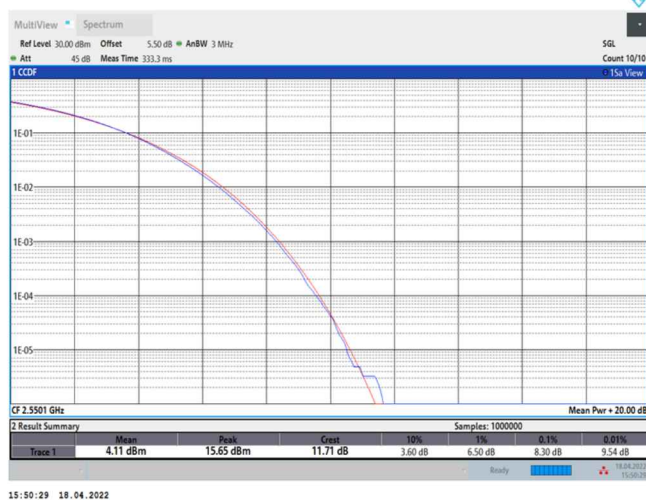
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### 7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



### 7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------|-------------|---------------|-------------|------------------|--------------------------|----------------------|---------|
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 20805-20949 | 50RB#0-100RB#0   | 27.57                    | 28.98                | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21006-21150 | 50RB#0-100RB#0   | 27.713                   | 29.52                | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21206-21350 | 50RB#0-100RB#0   | 27.679                   | 29.46                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 20805-20949 | 50RB#0-100RB#0   | 27.717                   | 29.52                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21006-21150 | 50RB#0-100RB#0   | 27.643                   | 29.22                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21206-21350 | 50RB#0-100RB#0   | 27.676                   | 29.28                | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 20805-20949 | 50RB#0-100RB#0   | 27.672                   | 29.46                | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21006-21150 | 50RB#0-100RB#0   | 27.633                   | 29.28                | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21206-21350 | 50RB#0-100RB#0   | 27.669                   | 29.28                | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 20805-20949 | 50RB#0-100RB#0   | 27.723                   | 29.64                | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21006-21150 | 50RB#0-100RB#0   | 27.636                   | 29.52                | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21206-21350 | 50RB#0-100RB#0   | 27.650                   | 29.28                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 20825-20945 | 75RB#0-50RB#0    | 23.137                   | 24.90                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 21051-21171 | 75RB#0-50RB#0    | 23.161                   | 24.95                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 21277-21397 | 75RB#0-50RB#0    | 23.156                   | 24.90                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM   | 20825-20945 | 75RB#0-50RB#0    | 23.159                   | 24.95                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM   | 21051-21171 | 75RB#0-50RB#0    | 23.100                   | 24.85                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM   | 21277-21397 | 75RB#0-50RB#0    | 23.122                   | 25.00                | PASS    |
| 7-7  | 15MHz-10MHz | 64QAM-64QAM   | 20825-20945 | 75RB#0-50RB#0    | 23.148                   | 24.95                | PASS    |
| 7-7  | 15MHz-10MHz | 64QAM-64QAM   | 21051-21171 | 75RB#0-50RB#0    | 23.146                   | 24.90                | PASS    |
| 7-7  | 15MHz-10MHz | 64QAM-64QAM   | 21277-21397 | 75RB#0-50RB#0    | 23.073                   | 24.90                | PASS    |
| 7-7  | 15MHz-10MHz | 256QAM-256QAM | 20825-20945 | 75RB#0-50RB#0    | 23.120                   | 24.75                | PASS    |
| 7-7  | 15MHz-10MHz | 256QAM-256QAM | 21051-21171 | 75RB#0-50RB#0    | 23.105                   | 25.00                | PASS    |
| 7-7  | 15MHz-10MHz | 256QAM-256QAM | 21277-21397 | 75RB#0-50RB#0    | 23.067                   | 24.90                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK     | 20825-20975 | 75RB#0-75RB#0    | 28.304                   | 30.36                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK     | 21025-21175 | 75RB#0-75RB#0    | 28.228                   | 30.12                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK     | 21225-21375 | 75RB#0-75RB#0    | 28.263                   | 30.24                | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM   | 20825-20975 | 75RB#0-75RB#0    | 28.315                   | 30.24                | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM   | 21025-21175 | 75RB#0-75RB#0    | 28.265                   | 30.12                | PASS    |



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| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 21225-21375 | 75RB#0-75RB#0  | 28.272 | 30.30 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 20825-20975 | 75RB#0-75RB#0  | 28.295 | 30.18 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21025-21175 | 75RB#0-75RB#0  | 28.254 | 30.18 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21225-21375 | 75RB#0-75RB#0  | 28.280 | 30.30 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 20825-20975 | 75RB#0-75RB#0  | 28.231 | 30.00 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21025-21175 | 75RB#0-75RB#0  | 28.277 | 30.18 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21225-21375 | 75RB#0-75RB#0  | 28.257 | 30.06 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 20828-20999 | 75RB#0-100RB#0 | 32.568 | 34.51 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21003-21174 | 75RB#0-100RB#0 | 32.577 | 34.44 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21179-21350 | 75RB#0-100RB#0 | 32.653 | 34.58 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 20828-20999 | 75RB#0-100RB#0 | 32.571 | 34.44 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21003-21174 | 75RB#0-100RB#0 | 32.451 | 34.44 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21179-21350 | 75RB#0-100RB#0 | 32.540 | 34.65 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 20828-20999 | 75RB#0-100RB#0 | 32.557 | 34.51 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21003-21174 | 75RB#0-100RB#0 | 32.488 | 34.72 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21179-21350 | 75RB#0-100RB#0 | 32.570 | 34.44 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 20828-20999 | 75RB#0-100RB#0 | 32.523 | 34.44 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21003-21174 | 75RB#0-100RB#0 | 32.507 | 34.51 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21179-21350 | 75RB#0-100RB#0 | 32.570 | 34.86 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 20850-20994 | 100RB#0-50RB#0 | 27.702 | 29.70 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21051-21195 | 100RB#0-50RB#0 | 27.758 | 29.70 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21251-21395 | 100RB#0-50RB#0 | 27.746 | 29.64 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 20850-20994 | 100RB#0-50RB#0 | 27.762 | 29.70 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21051-21195 | 100RB#0-50RB#0 | 27.696 | 29.82 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21251-21395 | 100RB#0-50RB#0 | 27.686 | 29.76 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 20850-20994 | 100RB#0-50RB#0 | 27.684 | 29.64 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21051-21195 | 100RB#0-50RB#0 | 27.702 | 29.76 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21251-21395 | 100RB#0-50RB#0 | 27.717 | 29.58 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 20850-20994 | 100RB#0-50RB#0 | 27.718 | 29.64 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21051-21195 | 100RB#0-50RB#0 | 27.766 | 29.64 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21251-21395 | 100RB#0-50RB#0 | 27.724 | 29.76 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 20850-21021 | 100RB#0-75RB#0 | 32.557 | 34.79 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21026-21197 | 100RB#0-75RB#0 | 32.603 | 34.72 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21201-21372 | 100RB#0-75RB#0 | 32.552 | 34.65 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM   | 20850-21021 | 100RB#0-75RB#0 | 32.598 | 34.51 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM   | 21026-21197 | 100RB#0-75RB#0 | 32.551 | 34.58 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM   | 21201-21372 | 100RB#0-75RB#0 | 32.613 | 34.44 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM   | 20850-21021 | 100RB#0-75RB#0 | 32.591 | 34.65 | PASS |



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|     |             |               |             |                 |        |       |      |
|-----|-------------|---------------|-------------|-----------------|--------|-------|------|
| 7-7 | 20MHz-15MHz | 64QAM-64QAM   | 21026-21197 | 100RB#0-75RB#0  | 32.558 | 34.65 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM   | 21201-21372 | 100RB#0-75RB#0  | 32.528 | 34.65 | PASS |
| 7-7 | 20MHz-15MHz | 256QAM-256QAM | 20850-21021 | 100RB#0-75RB#0  | 32.566 | 34.79 | PASS |
| 7-7 | 20MHz-15MHz | 256QAM-256QAM | 21026-21197 | 100RB#0-75RB#0  | 32.526 | 34.65 | PASS |
| 7-7 | 20MHz-15MHz | 256QAM-256QAM | 21201-21372 | 100RB#0-75RB#0  | 32.538 | 34.79 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK     | 20850-21048 | 100RB#0-100RB#0 | 37.722 | 40.40 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK     | 21001-21199 | 100RB#0-100RB#0 | 37.719 | 40.72 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK     | 21152-21350 | 100RB#0-100RB#0 | 37.676 | 40.56 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM   | 20850-21048 | 100RB#0-100RB#0 | 37.707 | 40.40 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM   | 21001-21199 | 100RB#0-100RB#0 | 37.719 | 40.56 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM   | 21152-21350 | 100RB#0-100RB#0 | 37.519 | 40.24 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 20850-21048 | 100RB#0-100RB#0 | 37.652 | 40.48 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 21001-21199 | 100RB#0-100RB#0 | 37.687 | 40.40 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 21152-21350 | 100RB#0-100RB#0 | 37.677 | 40.32 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 20850-21048 | 100RB#0-100RB#0 | 37.627 | 40.40 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21001-21199 | 100RB#0-100RB#0 | 37.704 | 40.56 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21152-21350 | 100RB#0-100RB#0 | 37.652 | 40.48 | PASS |



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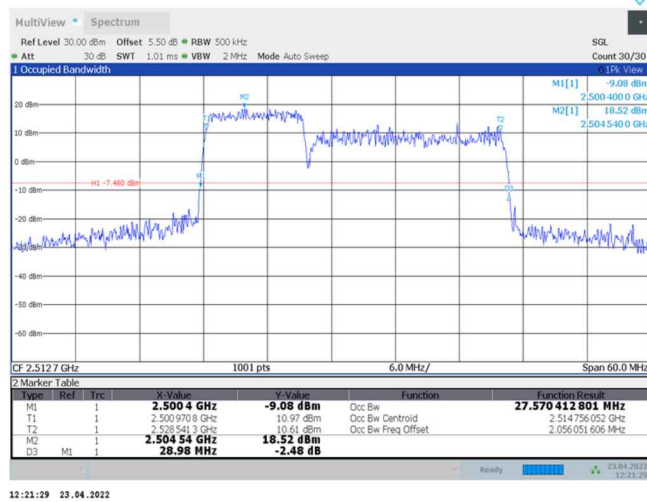
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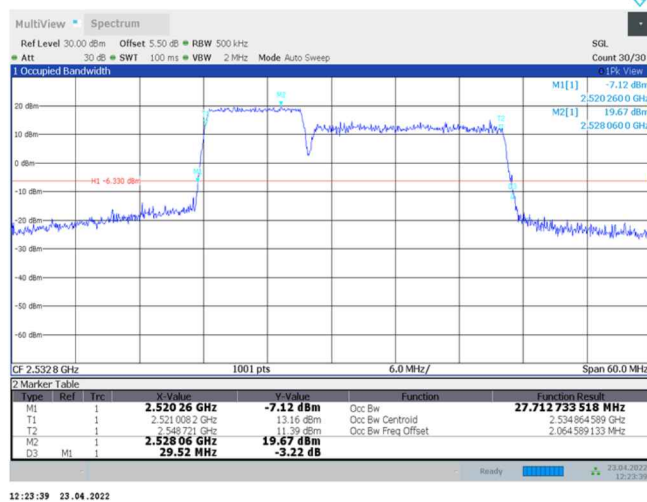
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### Test Graphs

#### 7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



#### 7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0



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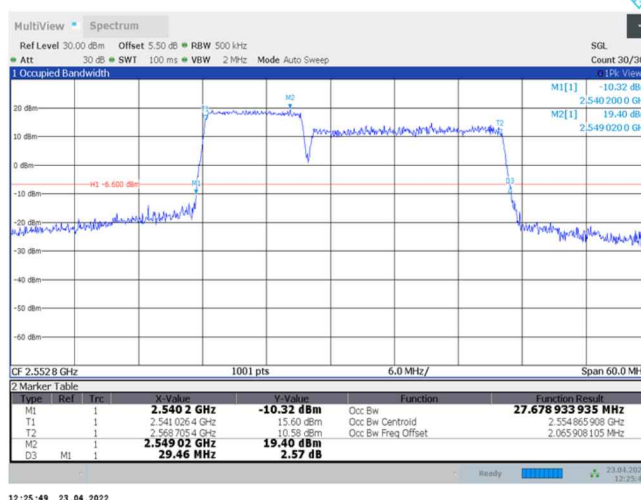
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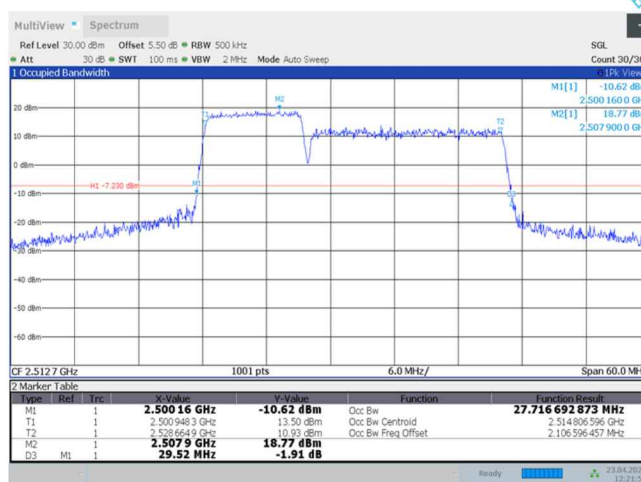
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### 7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



12:25:49 23.04.2022

### 7-7-10MHz-20MHz-16QAM-16QAM-20805-20949-50RB#0-100RB#0



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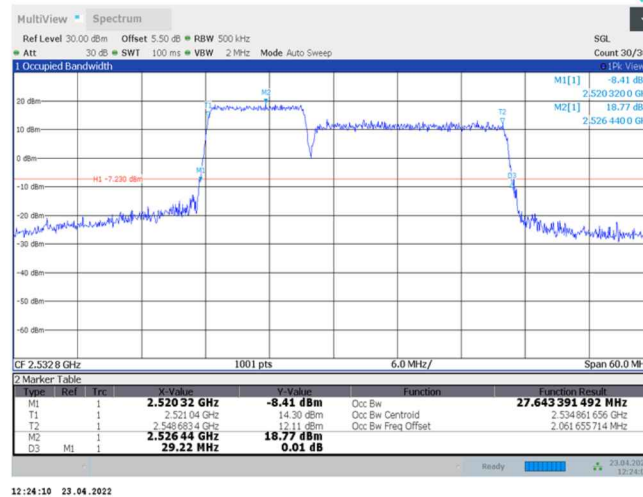
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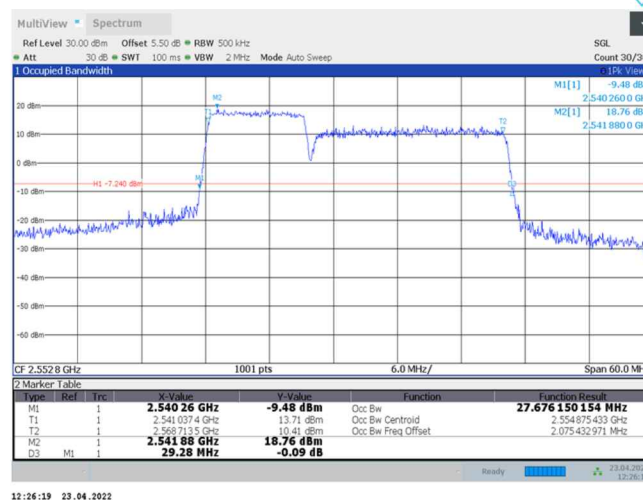
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### 7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0



### 7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



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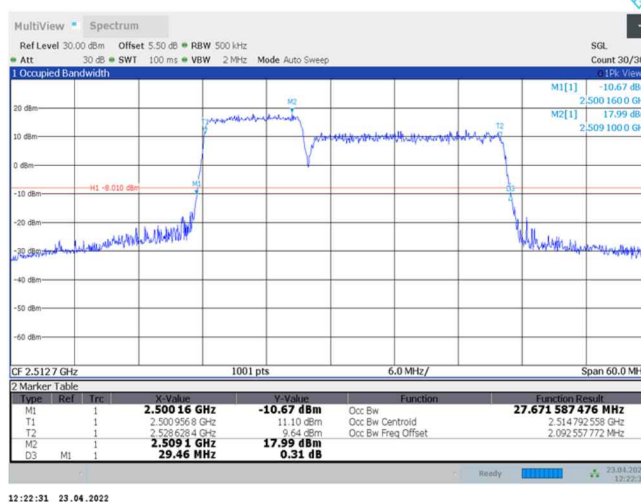
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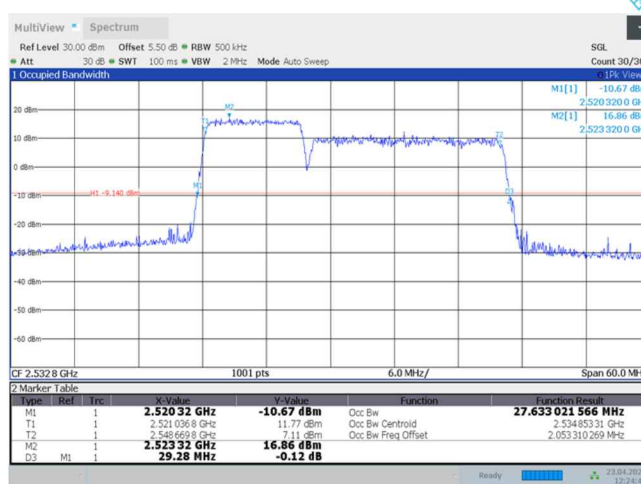
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### 7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



12:22:31 23.04.2022

### 7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



12:24:41 23.04.2022



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