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# Appendix B.22

## LTE CA\_7C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Result(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|------|-------------|---------------|-------------|------------------|-------------|------------|-------------|---------|
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 20805-20949 | 1RB#0-0RB#0      | 24.45       | 25         | 33          | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 20805-20949 | 50RB#0-100RB#0   | 22.22       | 22.77      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21006-21150 | 1RB#0-0RB#0      | 24.96       | 25.51      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21006-21150 | 50RB#0-100RB#0   | 22.26       | 22.81      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21206-21350 | 1RB#0-0RB#0      | 24.95       | 25.5       | 33          | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK     | 21206-21350 | 50RB#0-100RB#0   | 22.06       | 22.61      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 20805-20949 | 1RB#0-0RB#0      | 23.15       | 23.7       | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 20805-20949 | 50RB#0-100RB#0   | 21.2        | 21.75      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21006-21150 | 1RB#0-0RB#0      | 23.61       | 24.16      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21006-21150 | 50RB#0-100RB#0   | 21.24       | 21.79      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21206-21350 | 1RB#0-0RB#0      | 23.62       | 24.17      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM   | 21206-21350 | 50RB#0-100RB#0   | 21.02       | 21.57      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 20805-20949 | 1RB#0-0RB#0      | 21.11       | 21.66      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 20805-20949 | 50RB#0-100RB#0   | 19.26       | 19.81      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21006-21150 | 1RB#0-0RB#0      | 21.61       | 22.16      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21006-21150 | 50RB#0-100RB#0   | 19.29       | 19.84      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21206-21350 | 1RB#0-0RB#0      | 21.59       | 22.14      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 64QAM-64QAM   | 21206-21350 | 50RB#0-100RB#0   | 19.11       | 19.66      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 20805-20949 | 1RB#0-0RB#0      | 18.02       | 18.57      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 20805-20949 | 50RB#0-100RB#0   | 18.31       | 18.86      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21006-21150 | 1RB#0-0RB#0      | 18.46       | 19.01      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21006-21150 | 50RB#0-100RB#0   | 18.37       | 18.92      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21206-21350 | 1RB#0-0RB#0      | 18.48       | 19.03      | 33          | PASS    |
| 7-7  | 10MHz-20MHz | 256QAM-256QAM | 21206-21350 | 50RB#0-100RB#0   | 18.17       | 18.72      | 33          | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 20825-20945 | 1RB#0-0RB#0      | 24.1        | 24.65      | 33          | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 20825-20945 | 75RB#0-50RB#0    | 22.25       | 22.8       | 33          | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 21051-21171 | 1RB#0-0RB#0      | 24.62       | 25.17      | 33          | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK     | 21051-21171 | 75RB#0-50RB#0    | 22.27       | 22.82      | 33          | PASS    |



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| 7-7 | 15MHz-10MHz | QPSK-QPSK     | 21277-21397 | 1RB#0-0RB#0   | 24.44 | 24.99 | 33 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK     | 21277-21397 | 75RB#0-50RB#0 | 21.98 | 22.53 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 20825-20945 | 1RB#0-0RB#0   | 22.85 | 23.4  | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 20825-20945 | 75RB#0-50RB#0 | 21.22 | 21.77 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 21051-21171 | 1RB#0-0RB#0   | 23.35 | 23.9  | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 21051-21171 | 75RB#0-50RB#0 | 21.25 | 21.8  | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 21277-21397 | 1RB#0-0RB#0   | 23.28 | 23.83 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM   | 21277-21397 | 75RB#0-50RB#0 | 20.98 | 21.53 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 20825-20945 | 1RB#0-0RB#0   | 20.91 | 21.46 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 20825-20945 | 75RB#0-50RB#0 | 19.28 | 19.83 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 21051-21171 | 1RB#0-0RB#0   | 21.44 | 21.99 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 21051-21171 | 75RB#0-50RB#0 | 19.43 | 19.98 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 21277-21397 | 1RB#0-0RB#0   | 21.26 | 21.81 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM   | 21277-21397 | 75RB#0-50RB#0 | 19.12 | 19.67 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 20825-20945 | 1RB#0-0RB#0   | 17.87 | 18.42 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 20825-20945 | 75RB#0-50RB#0 | 18.37 | 18.92 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 21051-21171 | 1RB#0-0RB#0   | 18.5  | 19.05 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 21051-21171 | 75RB#0-50RB#0 | 18.48 | 19.03 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 21277-21397 | 1RB#0-0RB#0   | 18.39 | 18.94 | 33 | PASS |
| 7-7 | 15MHz-10MHz | 256QAM-256QAM | 21277-21397 | 75RB#0-50RB#0 | 18.16 | 18.71 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 20825-20975 | 1RB#0-0RB#0   | 24.54 | 25.09 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 20825-20975 | 75RB#0-75RB#0 | 22.28 | 22.83 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 21025-21175 | 1RB#0-0RB#0   | 24.5  | 25.05 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 21025-21175 | 75RB#0-75RB#0 | 22.18 | 22.73 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 21225-21375 | 1RB#0-0RB#0   | 24.58 | 25.13 | 33 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK     | 21225-21375 | 75RB#0-75RB#0 | 21.98 | 22.53 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 20825-20975 | 1RB#0-0RB#0   | 23.13 | 23.68 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 20825-20975 | 75RB#0-75RB#0 | 21.25 | 21.8  | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 21025-21175 | 1RB#0-0RB#0   | 23.32 | 23.87 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 21025-21175 | 75RB#0-75RB#0 | 21.28 | 21.83 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 21225-21375 | 1RB#0-0RB#0   | 23.39 | 23.94 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM   | 21225-21375 | 75RB#0-75RB#0 | 21.09 | 21.64 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 20825-20975 | 1RB#0-0RB#0   | 21.11 | 21.66 | 33 | PASS |



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| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 20825-20975 | 75RB#0-75RB#0  | 19.3  | 19.85 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21025-21175 | 1RB#0-0RB#0    | 21.41 | 21.96 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21025-21175 | 75RB#0-75RB#0  | 19.36 | 19.91 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21225-21375 | 1RB#0-0RB#0    | 21.55 | 22.1  | 33 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM   | 21225-21375 | 75RB#0-75RB#0  | 19.16 | 19.71 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 20825-20975 | 1RB#0-0RB#0    | 17.91 | 18.46 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 20825-20975 | 75RB#0-75RB#0  | 18.37 | 18.92 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21025-21175 | 1RB#0-0RB#0    | 18.26 | 18.81 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21025-21175 | 75RB#0-75RB#0  | 18.44 | 18.99 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21225-21375 | 1RB#0-0RB#0    | 18.5  | 19.05 | 33 | PASS |
| 7-7 | 15MHz-15MHz | 256QAM-256QAM | 21225-21375 | 75RB#0-75RB#0  | 18.27 | 18.82 | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 20828-20999 | 1RB#0-0RB#0    | 24.06 | 24.61 | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 20828-20999 | 75RB#0-100RB#0 | 22.33 | 22.88 | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21003-21174 | 1RB#0-0RB#0    | 24.79 | 25.34 | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21003-21174 | 75RB#0-100RB#0 | 22.49 | 23.04 | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21179-21350 | 1RB#0-0RB#0    | 24.85 | 25.4  | 33 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK     | 21179-21350 | 75RB#0-100RB#0 | 22.31 | 22.86 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 20828-20999 | 1RB#0-0RB#0    | 22.87 | 23.42 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 20828-20999 | 75RB#0-100RB#0 | 21.37 | 21.92 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21003-21174 | 1RB#0-0RB#0    | 23.58 | 24.13 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21003-21174 | 75RB#0-100RB#0 | 21.48 | 22.03 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21179-21350 | 1RB#0-0RB#0    | 23.73 | 24.28 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM   | 21179-21350 | 75RB#0-100RB#0 | 21.32 | 21.87 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 20828-20999 | 1RB#0-0RB#0    | 21.02 | 21.57 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 20828-20999 | 75RB#0-100RB#0 | 19.44 | 19.99 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21003-21174 | 1RB#0-0RB#0    | 21.61 | 22.16 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21003-21174 | 75RB#0-100RB#0 | 19.52 | 20.07 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21179-21350 | 1RB#0-0RB#0    | 21.95 | 22.5  | 33 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM   | 21179-21350 | 75RB#0-100RB#0 | 19.45 | 20    | 33 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 20828-20999 | 1RB#0-0RB#0    | 17.88 | 18.43 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 20828-20999 | 75RB#0-100RB#0 | 18.5  | 19.05 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21003-21174 | 1RB#0-0RB#0    | 18.57 | 19.12 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21003-21174 | 75RB#0-100RB#0 | 18.6  | 19.15 | 33 | PASS |



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| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21179-21350 | 1RB#0-0RB#0    | 18.79 | 19.34 | 33 | PASS |
| 7-7 | 15MHz-20MHz | 256QAM-256QAM | 21179-21350 | 75RB#0-100RB#0 | 18.42 | 18.97 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 20850-20994 | 100RB#0-50RB#0 | 22.2  | 22.75 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 20850-20994 | 1RB#0-0RB#0    | 23.97 | 24.52 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21051-21195 | 100RB#0-50RB#0 | 22.22 | 22.77 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21051-21195 | 1RB#0-0RB#0    | 24.69 | 25.24 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21251-21395 | 100RB#0-50RB#0 | 21.99 | 22.54 | 33 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK     | 21251-21395 | 1RB#0-0RB#0    | 24.84 | 25.39 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 20850-20994 | 100RB#0-50RB#0 | 21.2  | 21.75 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 20850-20994 | 1RB#0-0RB#0    | 22.79 | 23.34 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21051-21195 | 100RB#0-50RB#0 | 21.19 | 21.74 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21051-21195 | 1RB#0-0RB#0    | 23.41 | 23.96 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21251-21395 | 100RB#0-50RB#0 | 21.02 | 21.57 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM   | 21251-21395 | 1RB#0-0RB#0    | 23.52 | 24.07 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 20850-20994 | 100RB#0-50RB#0 | 19.27 | 19.82 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 20850-20994 | 1RB#0-0RB#0    | 20.92 | 21.47 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21051-21195 | 100RB#0-50RB#0 | 19.32 | 19.87 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21051-21195 | 1RB#0-0RB#0    | 21.47 | 22.02 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21251-21395 | 100RB#0-50RB#0 | 19.09 | 19.64 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM   | 21251-21395 | 1RB#0-0RB#0    | 21.47 | 22.02 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 20850-20994 | 100RB#0-50RB#0 | 18.35 | 18.9  | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 20850-20994 | 1RB#0-0RB#0    | 17.7  | 18.25 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21051-21195 | 100RB#0-50RB#0 | 18.31 | 18.86 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21051-21195 | 1RB#0-0RB#0    | 18.4  | 18.95 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21251-21395 | 100RB#0-50RB#0 | 18.11 | 18.66 | 33 | PASS |
| 7-7 | 20MHz-10MHz | 256QAM-256QAM | 21251-21395 | 1RB#0-0RB#0    | 18.62 | 19.17 | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 20850-21021 | 100RB#0-75RB#0 | 22.08 | 22.63 | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 20850-21021 | 1RB#0-0RB#0    | 23.83 | 24.38 | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21026-21197 | 100RB#0-75RB#0 | 22.1  | 22.65 | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21026-21197 | 1RB#0-0RB#0    | 24.55 | 25.1  | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21201-21372 | 100RB#0-75RB#0 | 21.94 | 22.49 | 33 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK     | 21201-21372 | 1RB#0-0RB#0    | 24.71 | 25.26 | 33 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM   | 20850-21021 | 100RB#0-75RB#0 | 21.09 | 21.64 | 33 | PASS |



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Table with 9 columns: Test No., Frequency, Modulation, Standard, Result, and Pass/Fail. Contains 48 rows of test data.



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|     |             |               |             |                 |       |       |    |      |
|-----|-------------|---------------|-------------|-----------------|-------|-------|----|------|
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 21152-21350 | 100RB#0-100RB#0 | 19.05 | 19.6  | 33 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 21152-21350 | 1RB#0-0RB#0     | 21.46 | 22.01 | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 20850-21048 | 100RB#0-100RB#0 | 18.08 | 18.63 | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 20850-21048 | 1RB#0-0RB#0     | 17.7  | 18.25 | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21001-21199 | 100RB#0-100RB#0 | 18.05 | 18.6  | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21001-21199 | 1RB#0-0RB#0     | 18.26 | 18.81 | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21152-21350 | 100RB#0-100RB#0 | 18.02 | 18.57 | 33 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21152-21350 | 1RB#0-0RB#0     | 18.15 | 18.7  | 33 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|------|-------------|---------------|-------------|------------------|------------|-----------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK     | 20850-21048 | 100RB#0-100RB#0  | 8.26       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK     | 21001-21199 | 100RB#0-100RB#0  | 8.24       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK     | 21152-21350 | 100RB#0-100RB#0  | 8.24       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 16QAM-16QAM   | 20850-21048 | 100RB#0-100RB#0  | 8.24       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 16QAM-16QAM   | 21001-21199 | 100RB#0-100RB#0  | 8.20       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 16QAM-16QAM   | 21152-21350 | 100RB#0-100RB#0  | 8.30       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 64QAM-64QAM   | 20850-21048 | 100RB#0-100RB#0  | 8.22       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 64QAM-64QAM   | 21001-21199 | 100RB#0-100RB#0  | 8.24       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 64QAM-64QAM   | 21152-21350 | 100RB#0-100RB#0  | 8.24       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 256QAM-256QAM | 20850-21048 | 100RB#0-100RB#0  | 8.30       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 256QAM-256QAM | 21001-21199 | 100RB#0-100RB#0  | 8.32       | 13        | PASS    |
| 7-7  | 20MHz-20MHz | 256QAM-256QAM | 21152-21350 | 100RB#0-100RB#0  | 8.30       | 13        | PASS    |



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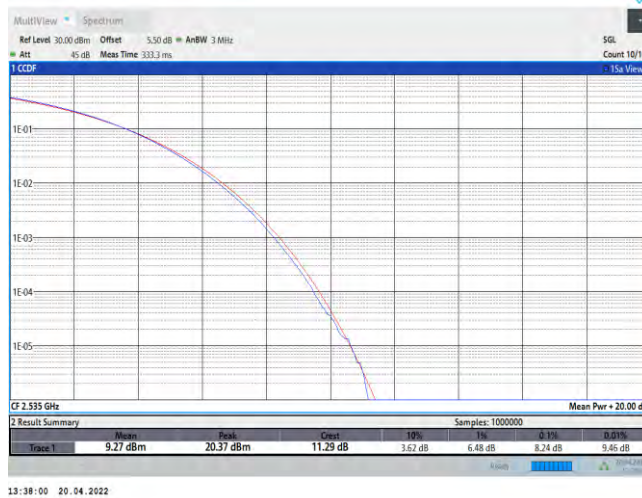
Test Graphs

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



15:44:39 18.04.2022

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



13:38:00 20.04.2022

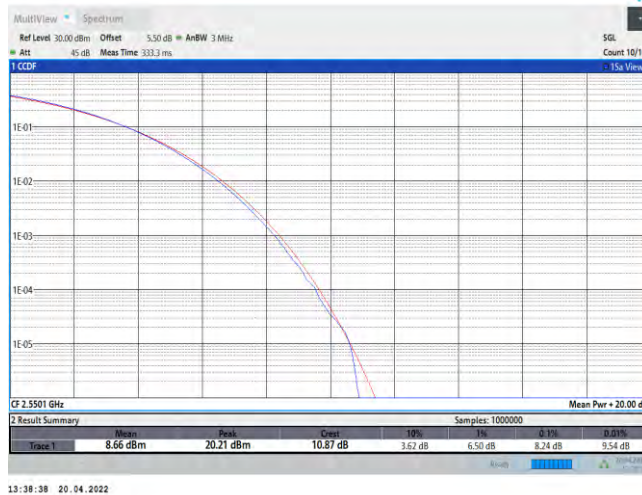


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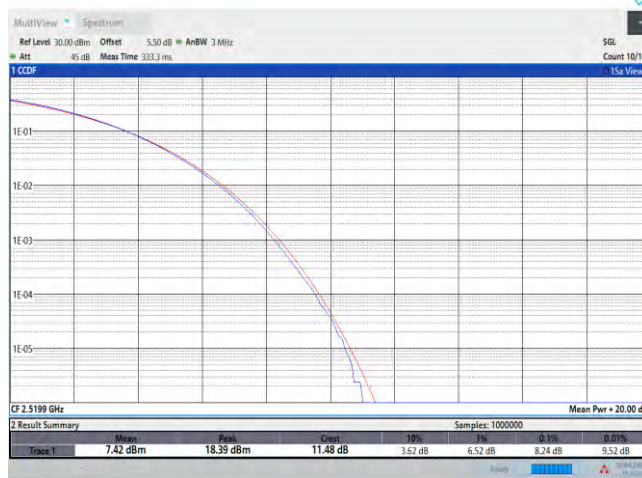
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



13:38:38 20.04.2022

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



15:45:10 18.04.2022

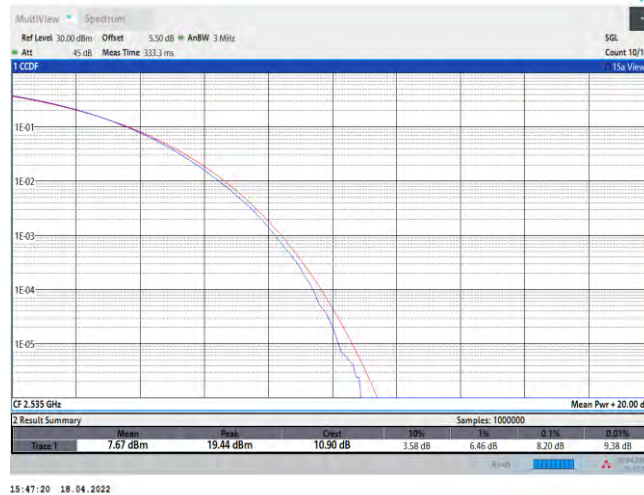


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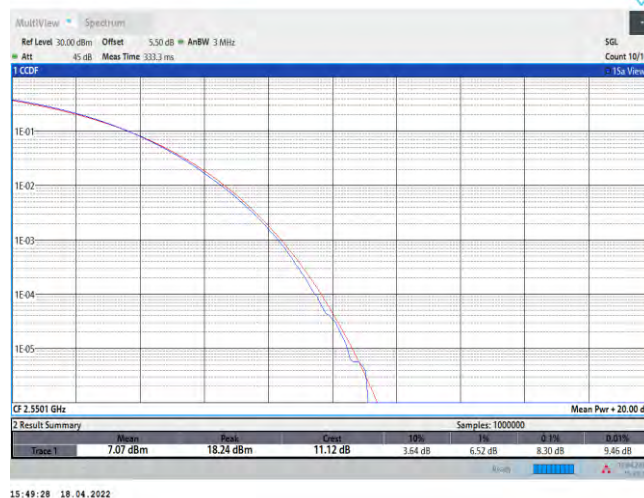
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



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



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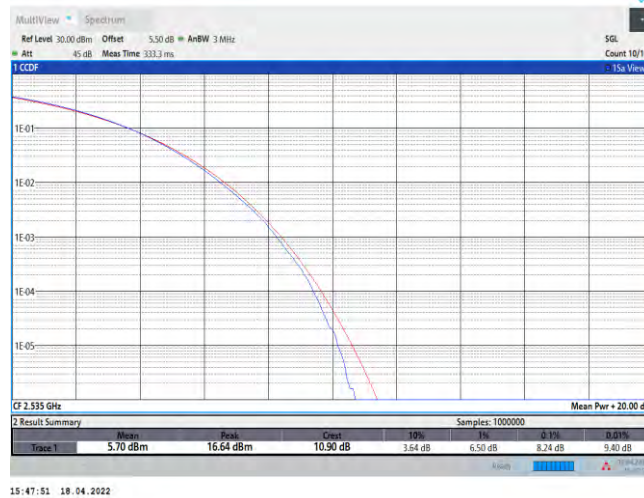
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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



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



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



15:49:58 18.04.2022

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



15:46:11 18.04.2022



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



15:48:21 18.04.2022

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



15:50:29 18.04.2022



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Rev.: 01

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## Modulation Characteristics

### Test Result

|     |             |               |             |               |      |
|-----|-------------|---------------|-------------|---------------|------|
| 7-7 | 20MHz-20MHz | QPSK-QPSK     | 21001-21199 | 50RB#0-50RB#0 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM   | 21001-21199 | 50RB#0-50RB#0 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM   | 21001-21199 | 50RB#0-50RB#0 | PASS |
| 7-7 | 20MHz-20MHz | 256QAM-256QAM | 21001-21199 | 50RB#0-50RB#0 | PASS |



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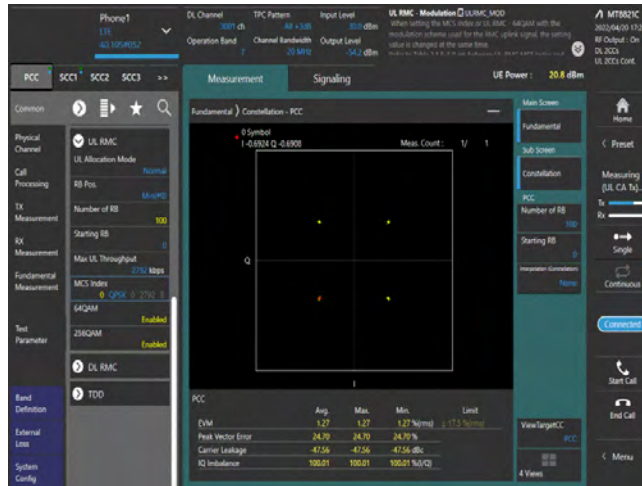
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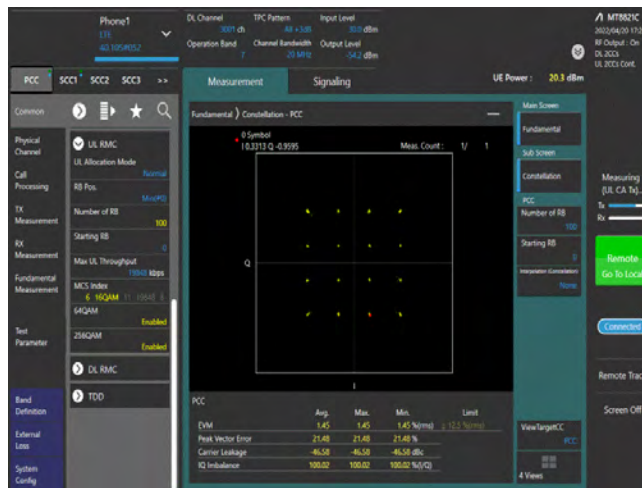
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



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



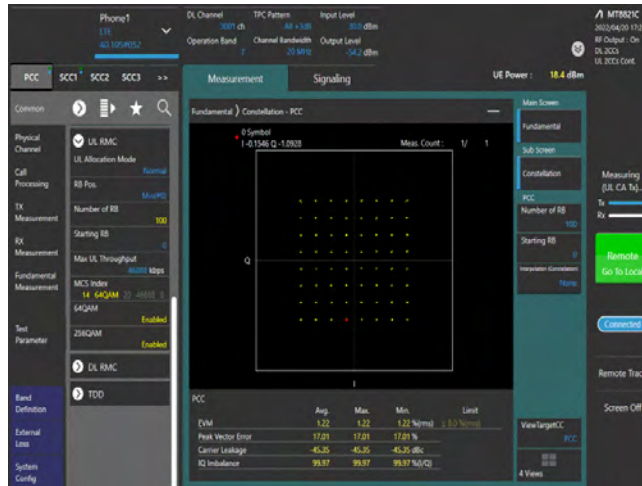
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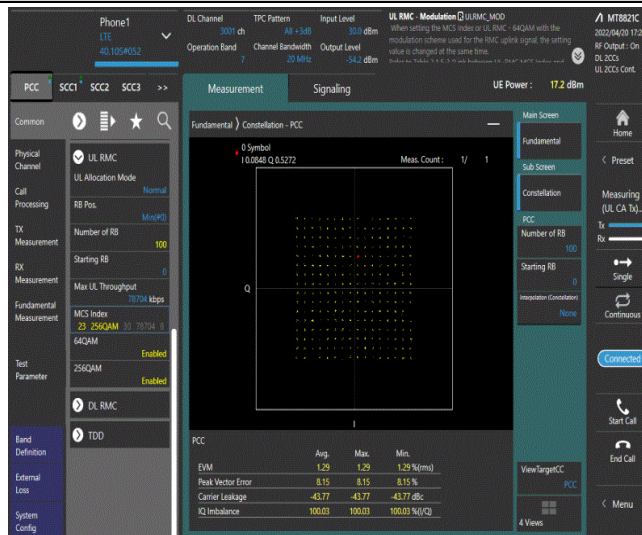
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#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    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM   | 21225-21375 | 75RB#0-75RB#0    | 28.272                   | 30.30                | PASS    |



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Table with 8 columns: Test No., Frequency, Modulation, Standard, Reference, Result 1, Result 2, Pass/Fail. Contains 48 rows of test data.



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|     |             |               |             |                 |        |       |      |
|-----|-------------|---------------|-------------|-----------------|--------|-------|------|
| 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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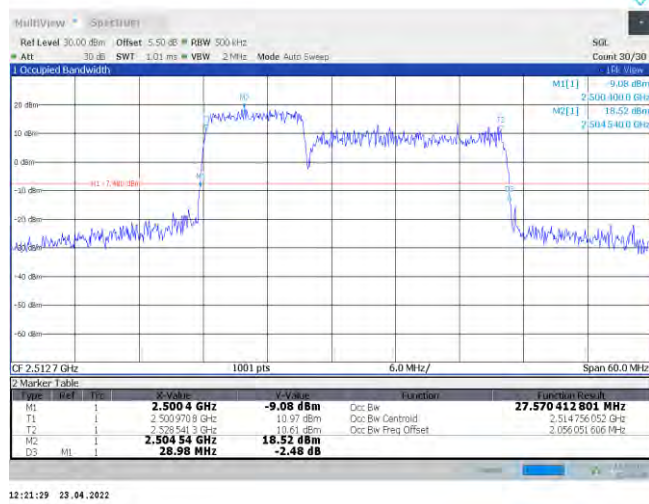
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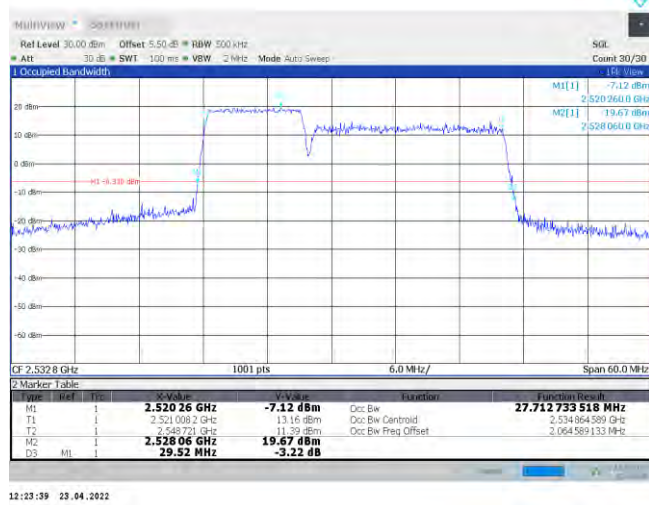
Test Graphs

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



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



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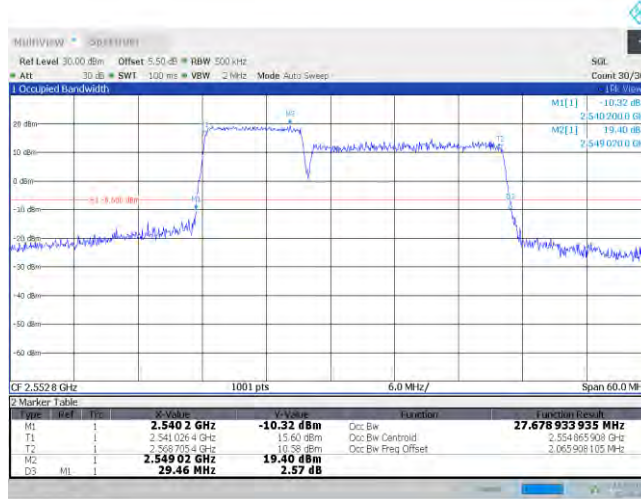


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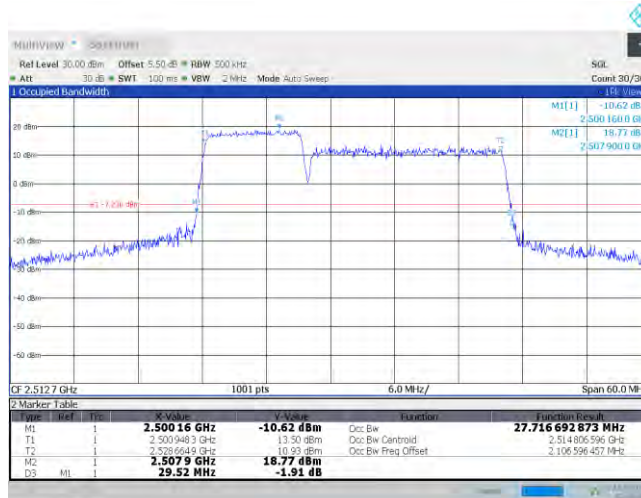
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



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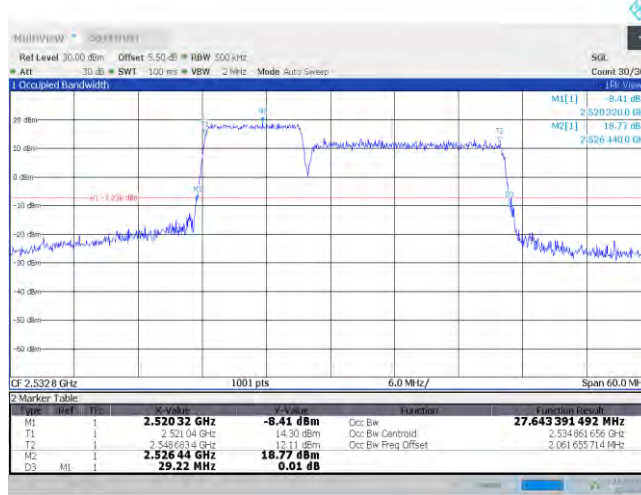


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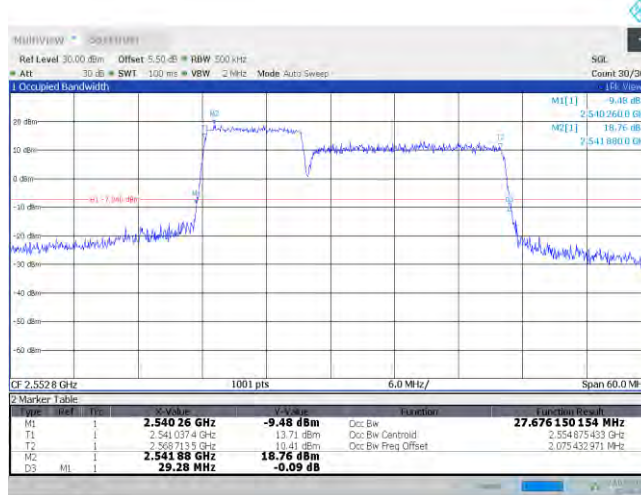
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7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



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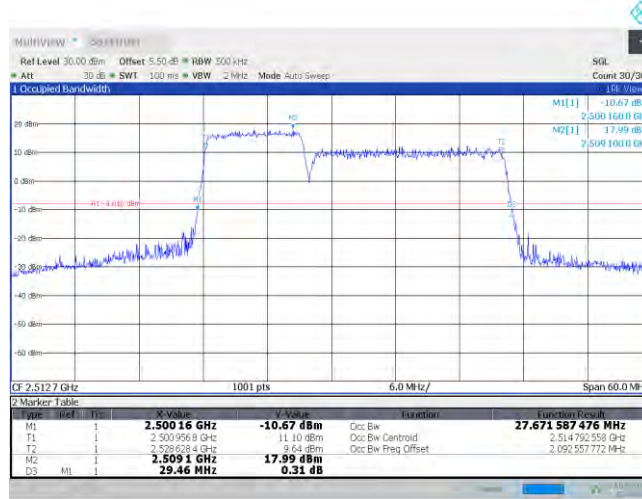
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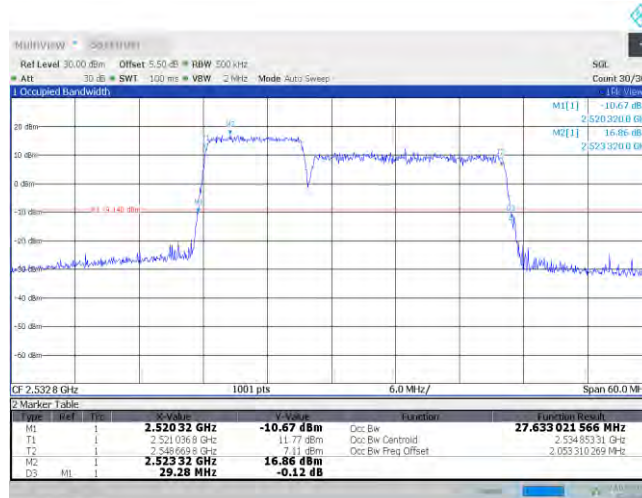
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7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



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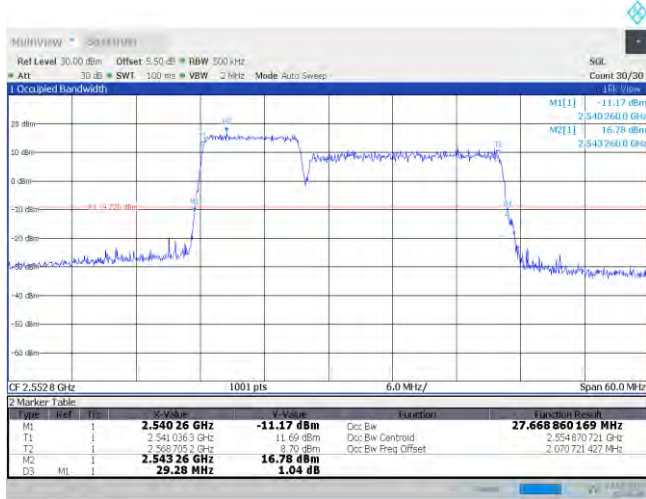
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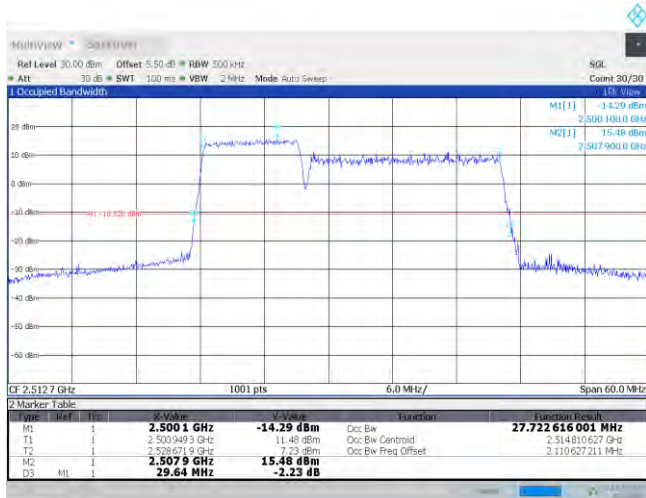


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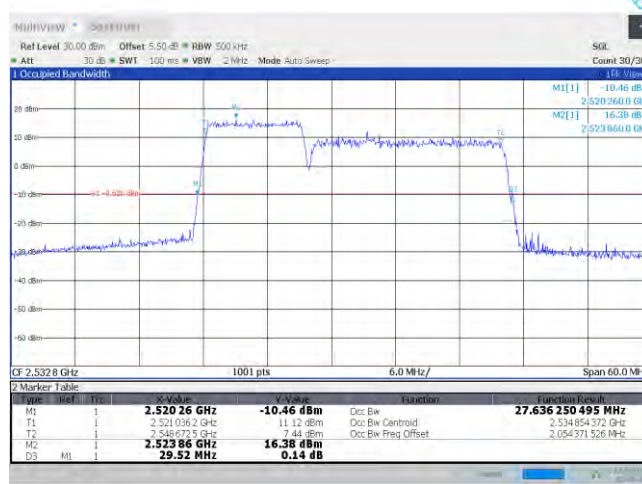


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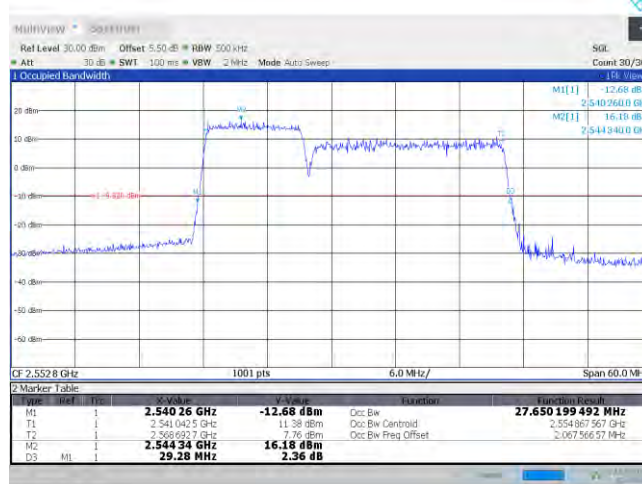
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7-7-10MHz-20MHz-256QAM-256QAM-21006-21150-50RB#0-100RB#0



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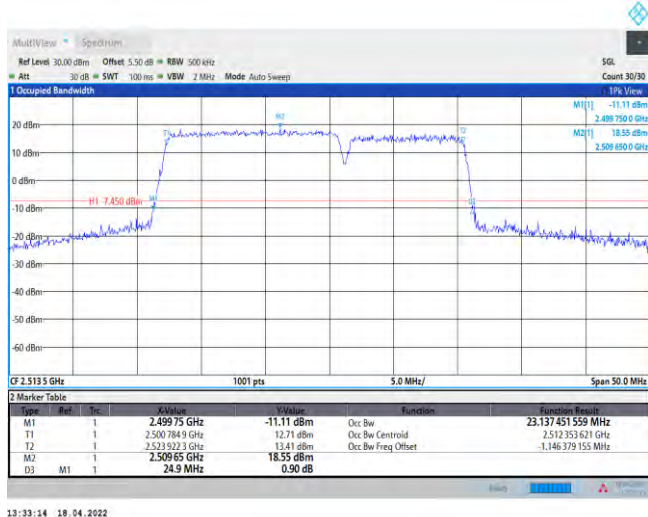


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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0

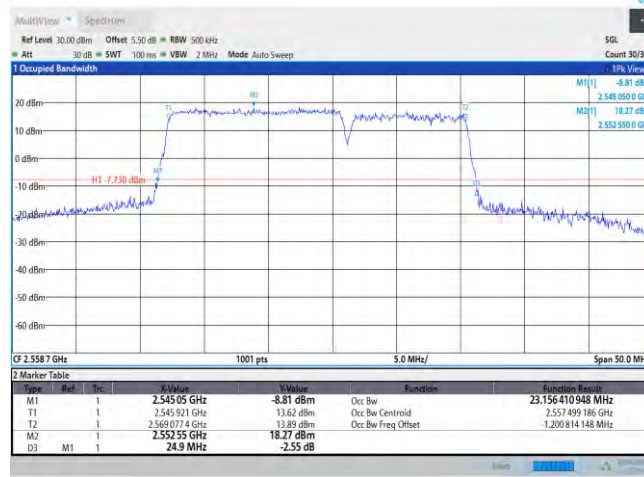


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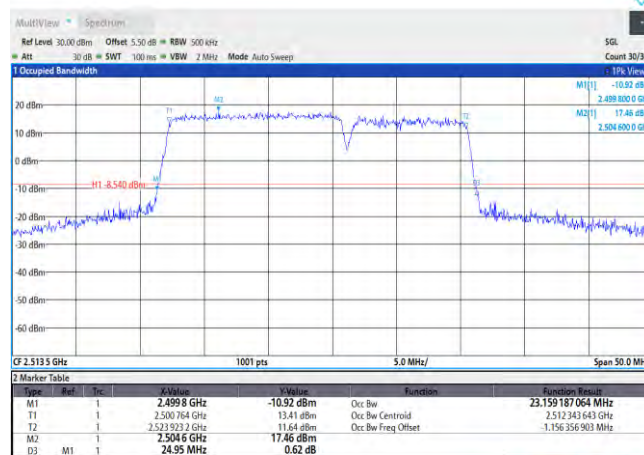
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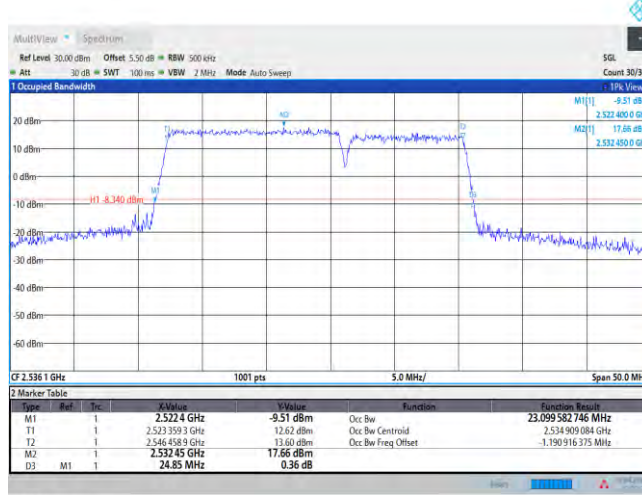
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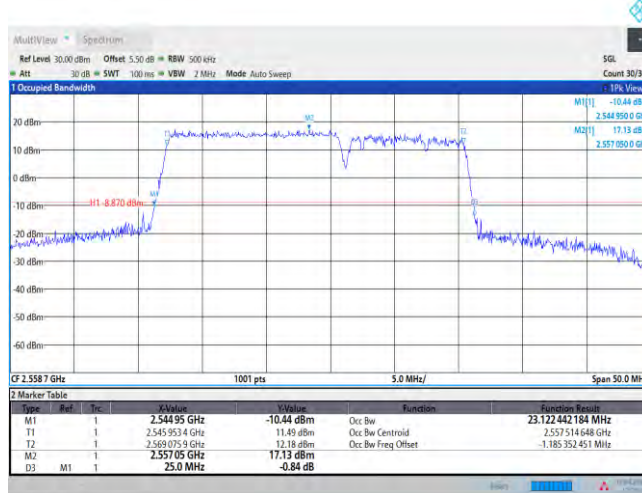
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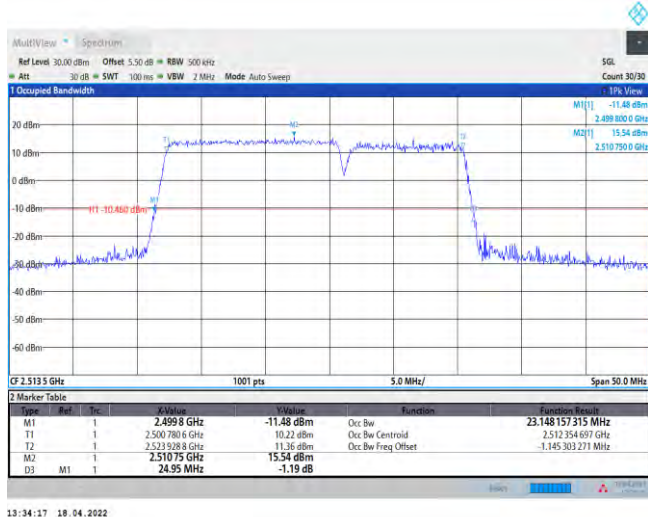


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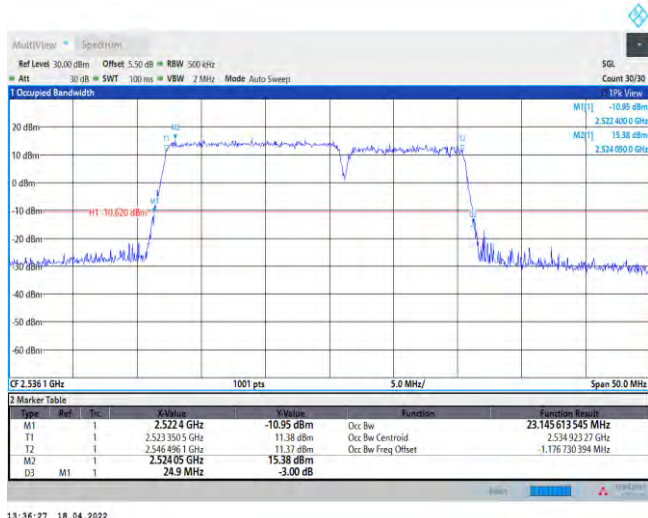
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7-7-15MHz-10MHz-64QAM-64QAM-20825-20945-75RB#0-50RB#0



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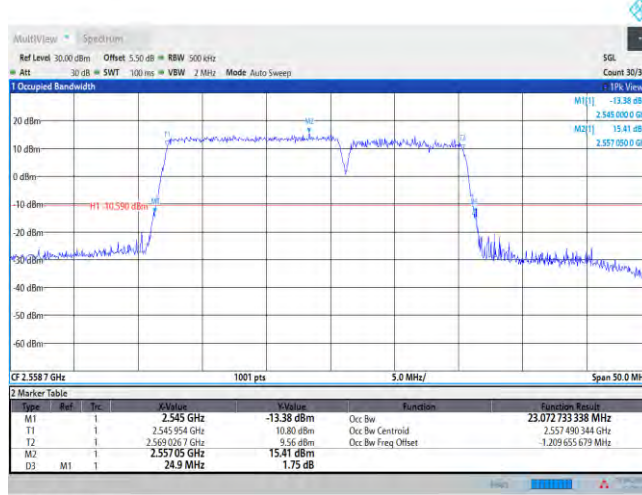
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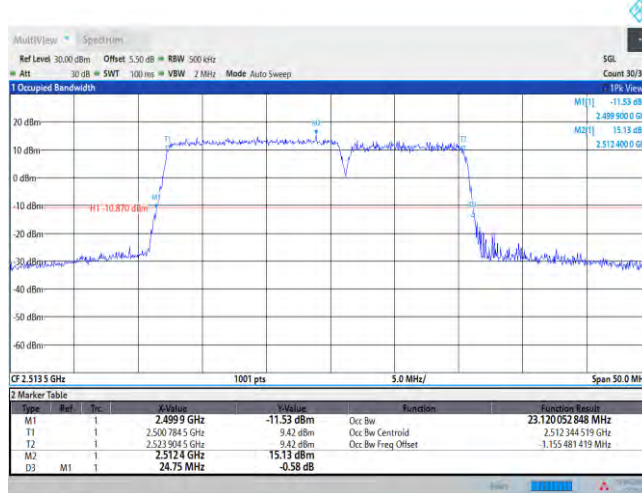
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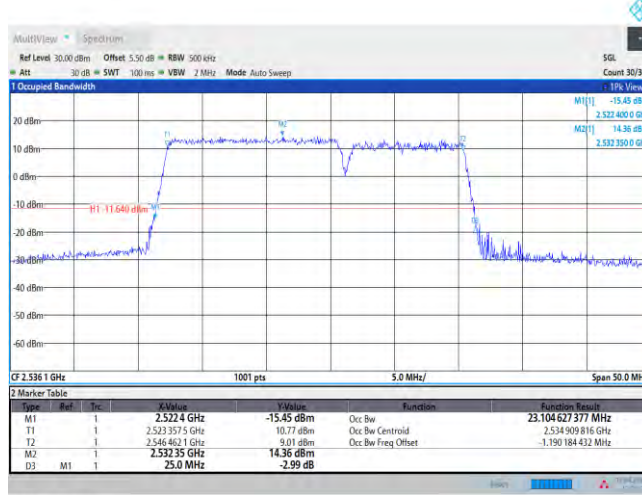


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13:39:09 18.04.2022



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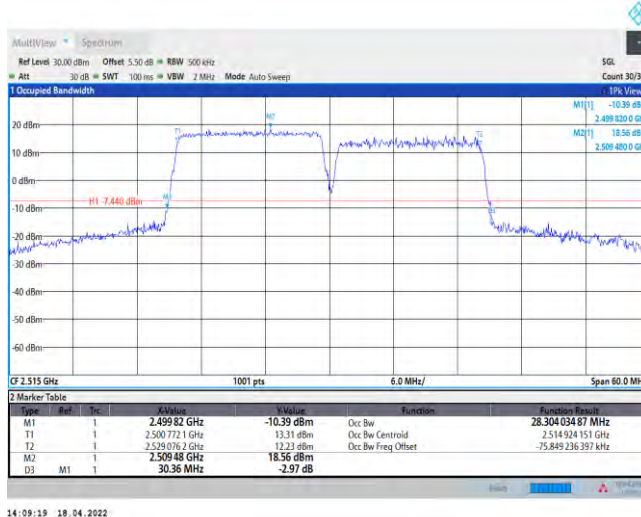
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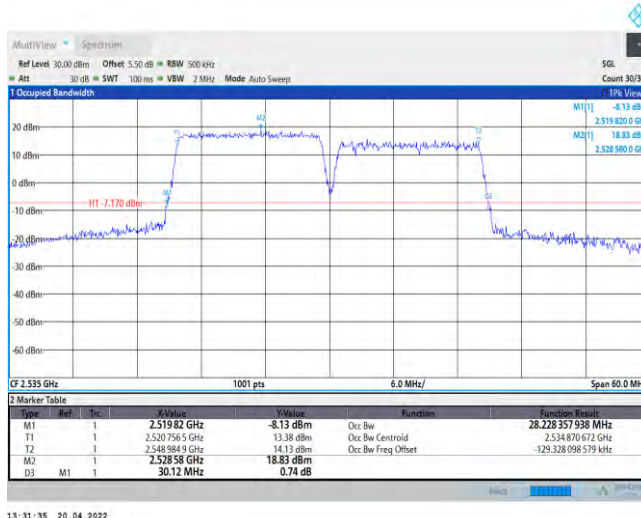
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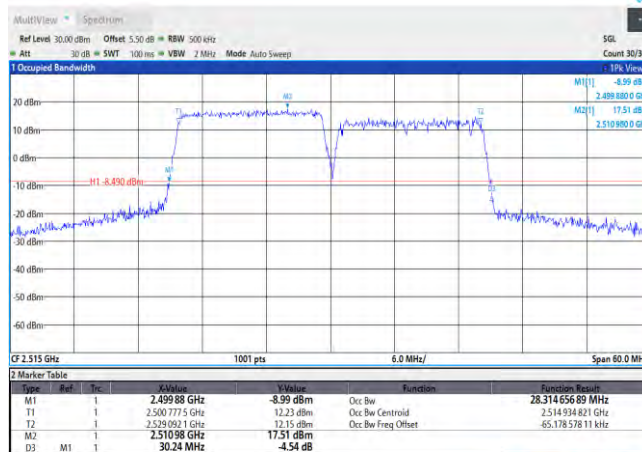
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14:09:50 18.04.2022



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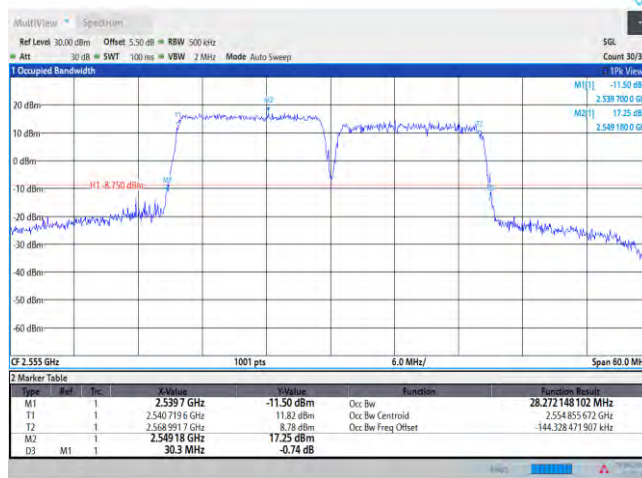
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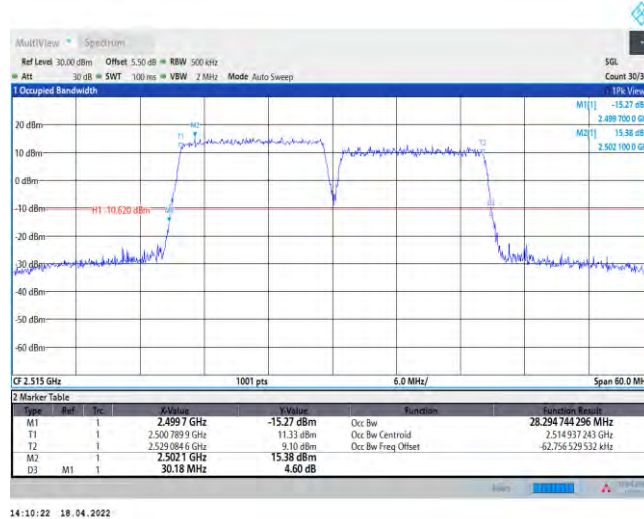


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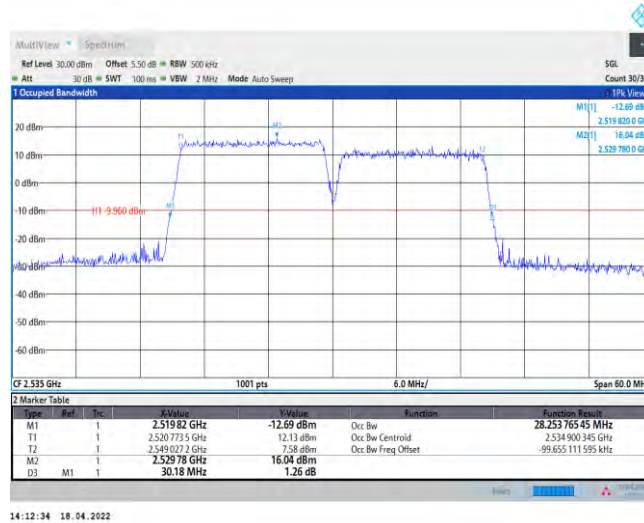
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7-7-15MHz-15MHz-64QAM-64QAM-20825-20975-75RB#0-75RB#0



7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



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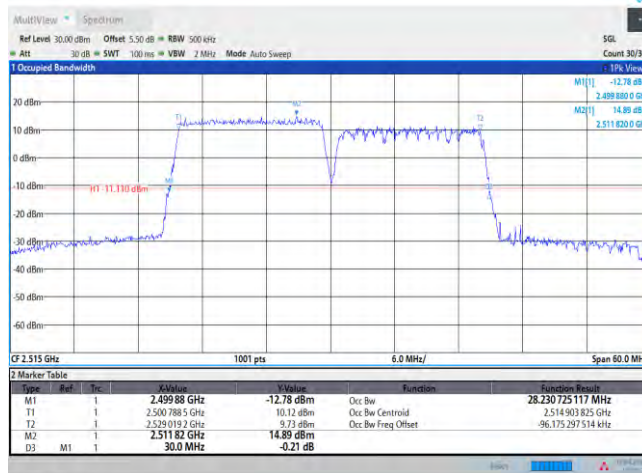
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14:10:53 18.04.2022



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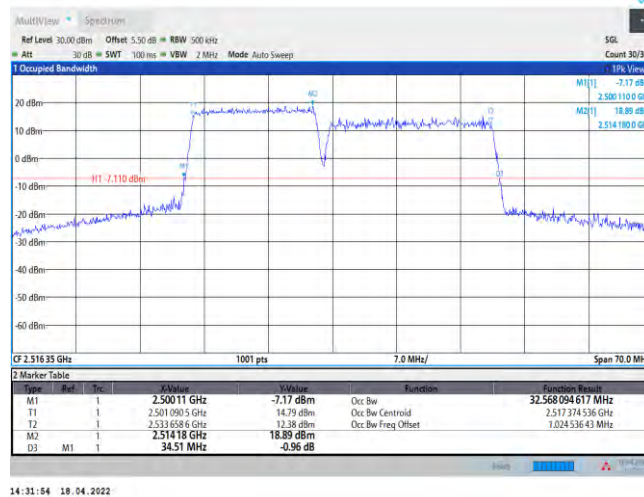


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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0



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13:32:58 20.04.2022



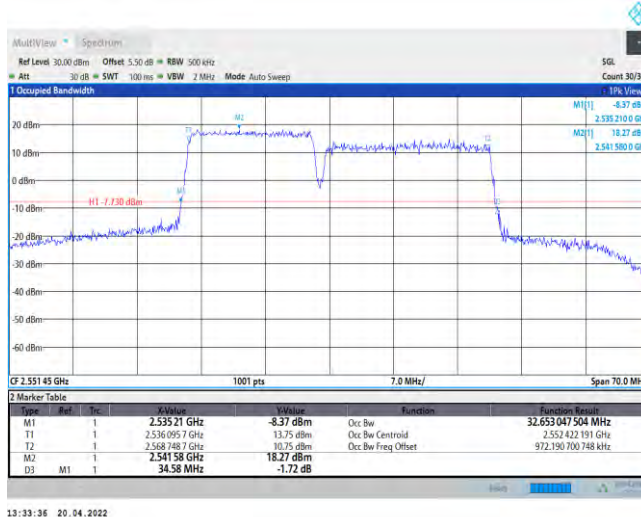
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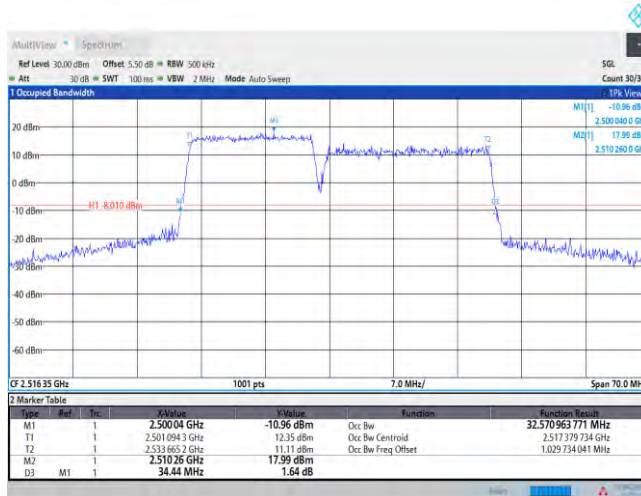
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



13:33:36 20.04.2022

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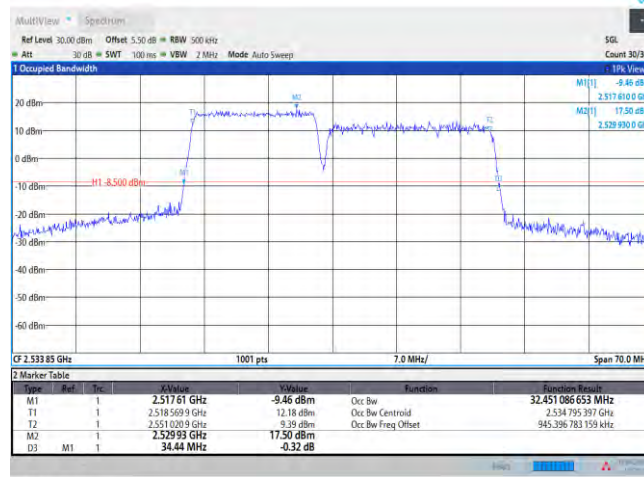
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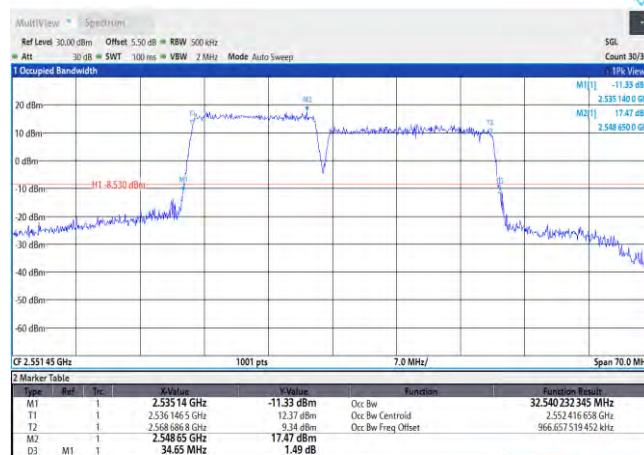


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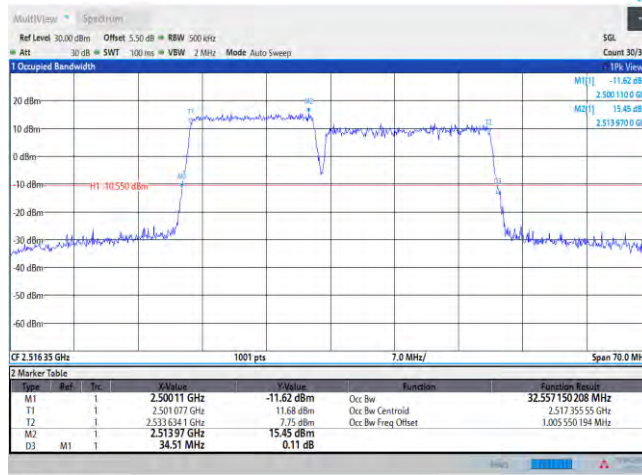


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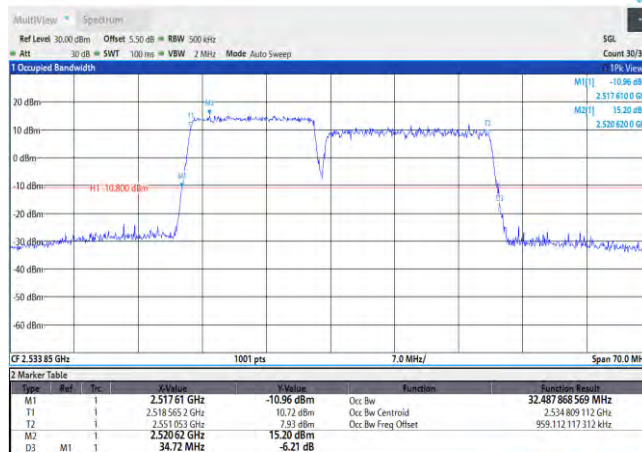
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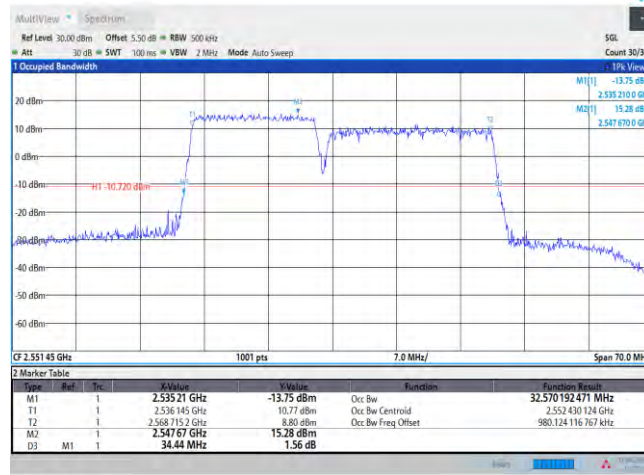


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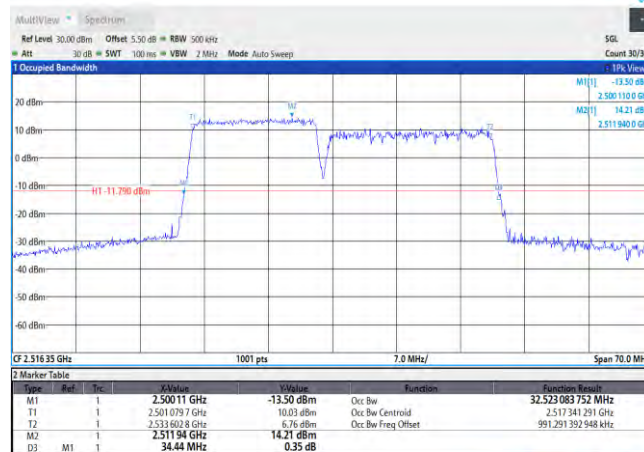
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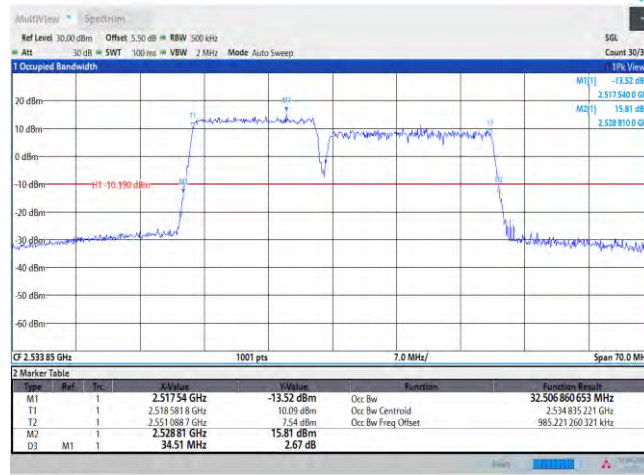


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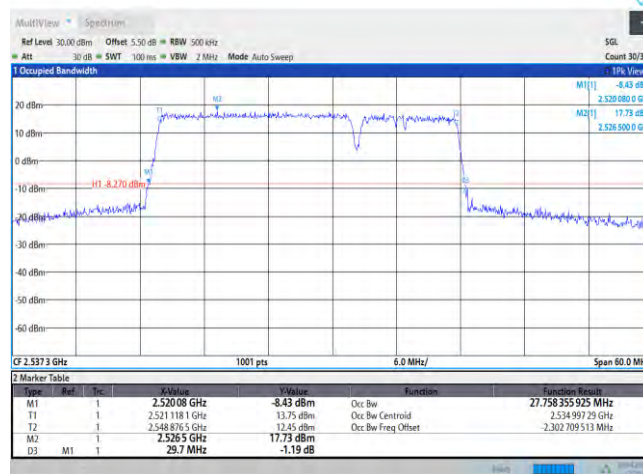
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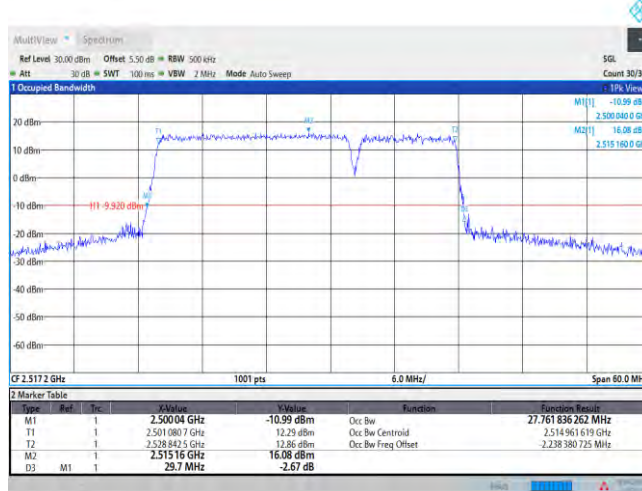
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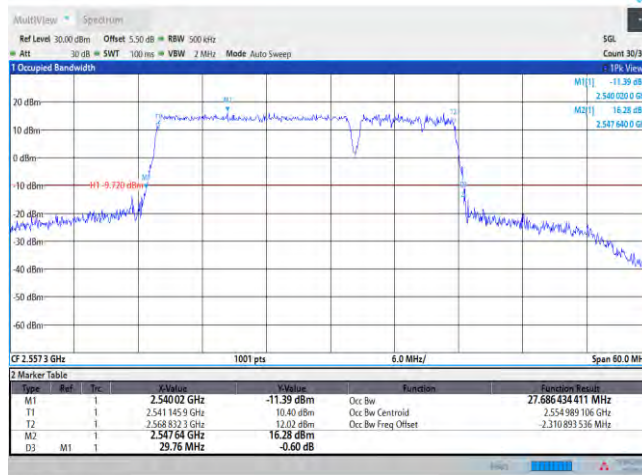
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7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0



15:00:50 18.04.2022



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7-7-20MHz-10MHz-64QAM-64QAM-20850-20994-100RB#0-50RB#0



14:57:01 18.04.2022

7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



14:59:11 18.04.2022



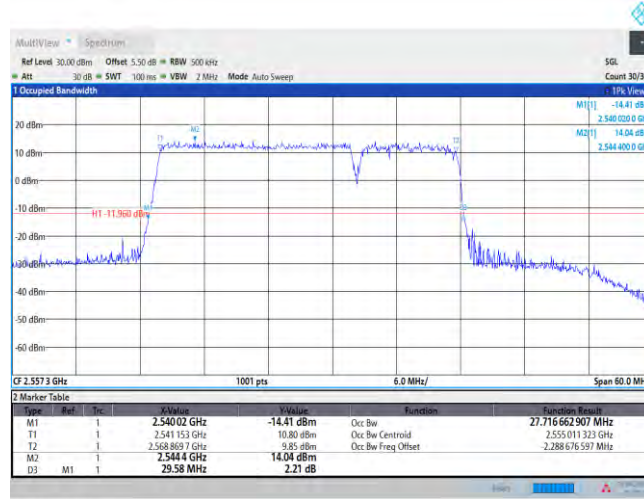
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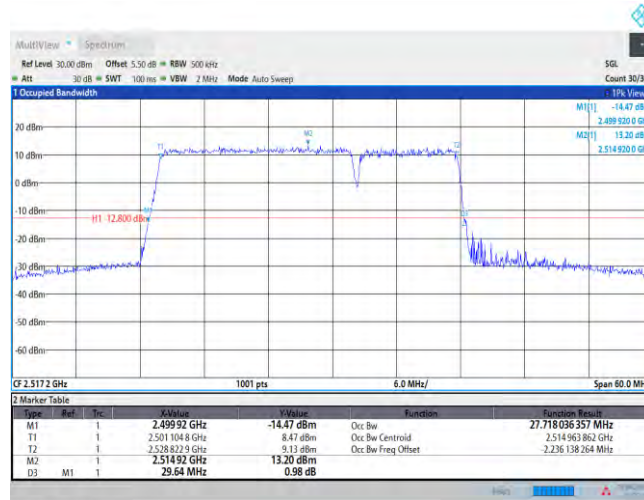


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15:01:21 18.04.2022

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14:57:32 18.04.2022



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14:59:42 18.04.2022

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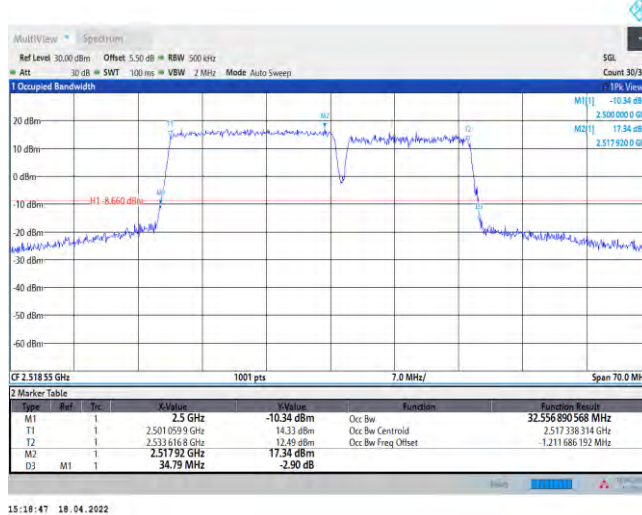


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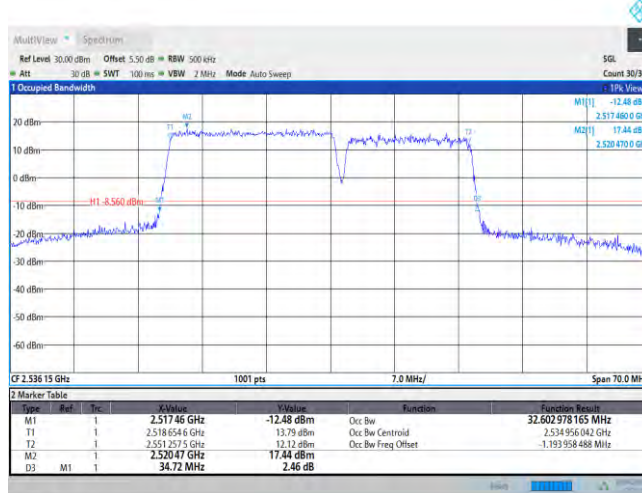
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



15:18:47 18.04.2022

7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



13:36:30 20.04.2022



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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



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7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0



15:19:19 18.04.2022



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15:21:32 18.04.2022

7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-100RB#0-75RB#0



15:23:43 18.04.2022



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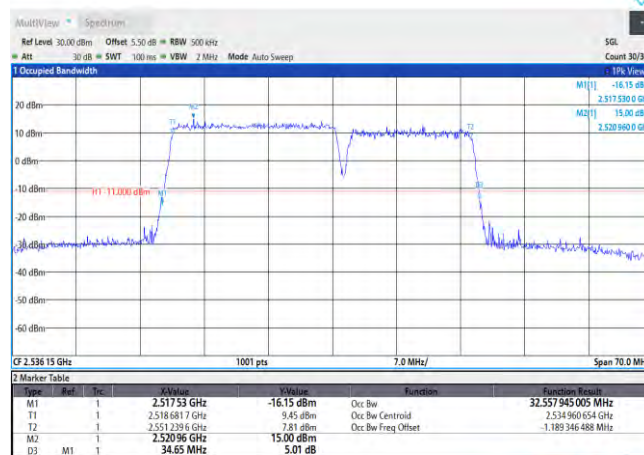
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7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



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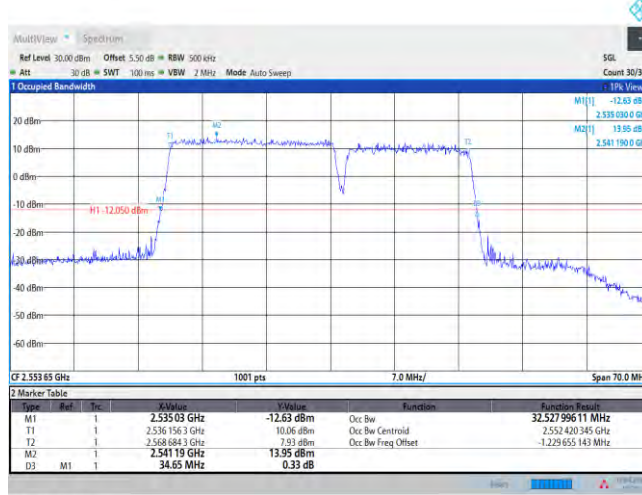


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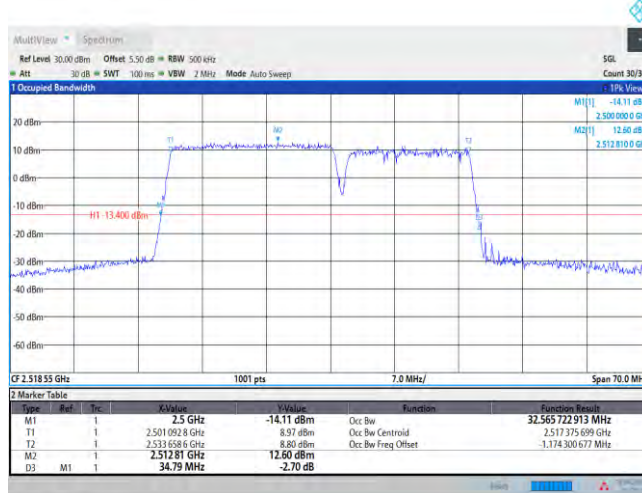
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7-7-20MHz-15MHz-64QAM-64QAM-21201-21372-100RB#0-75RB#0



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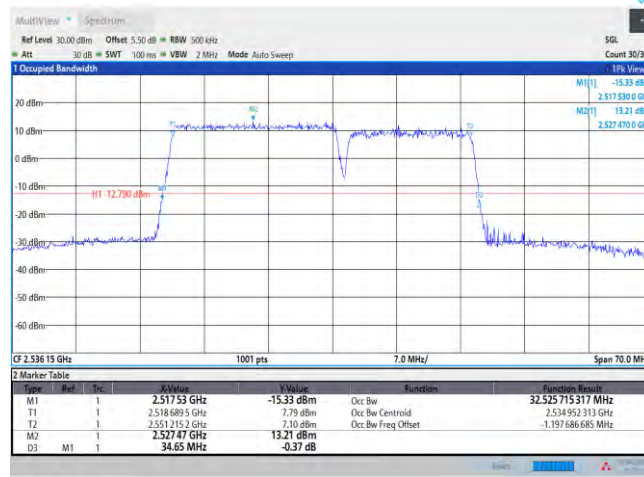


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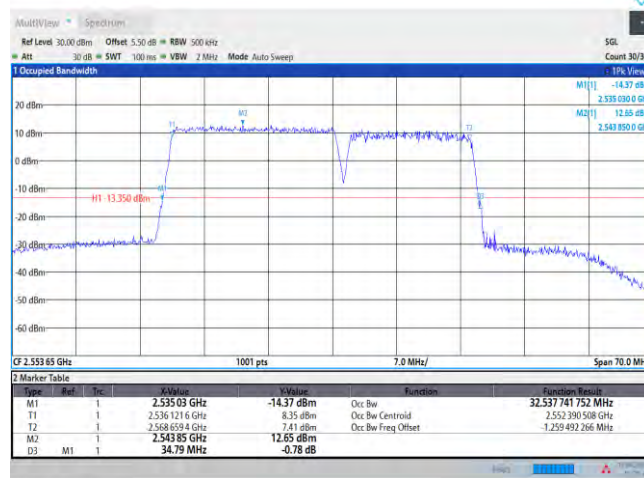
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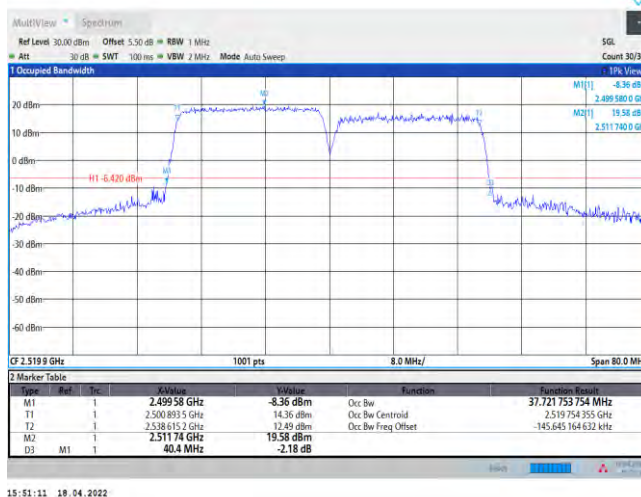
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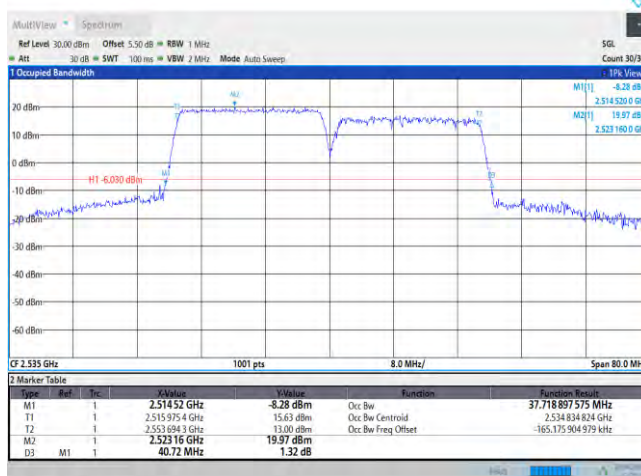


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13:39:19 20.04.2022



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15:51:43 18.04.2022



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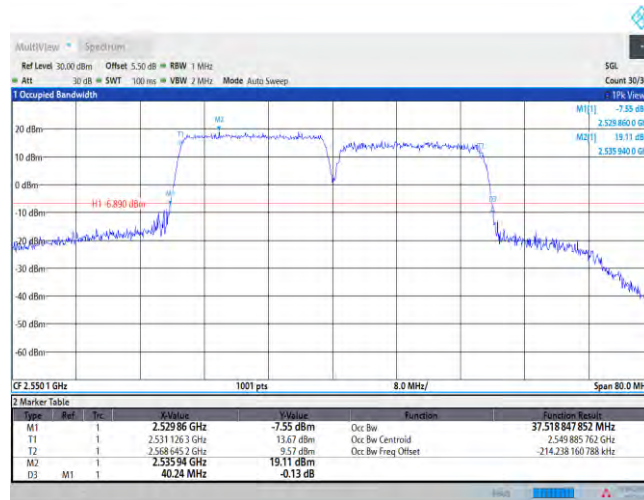
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15:53:55 18.04.2022

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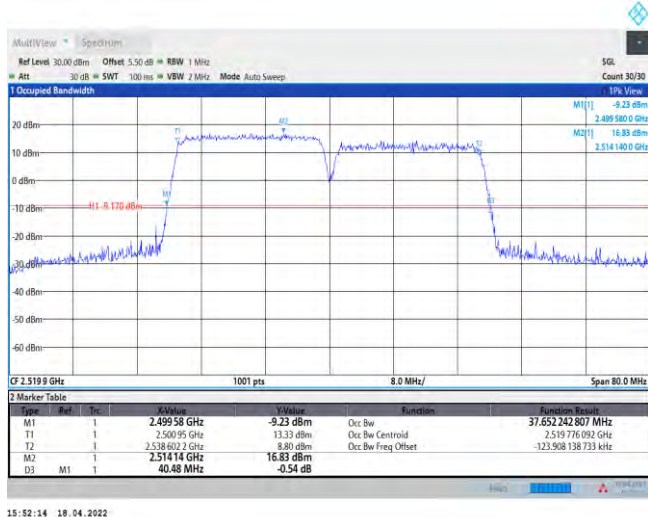


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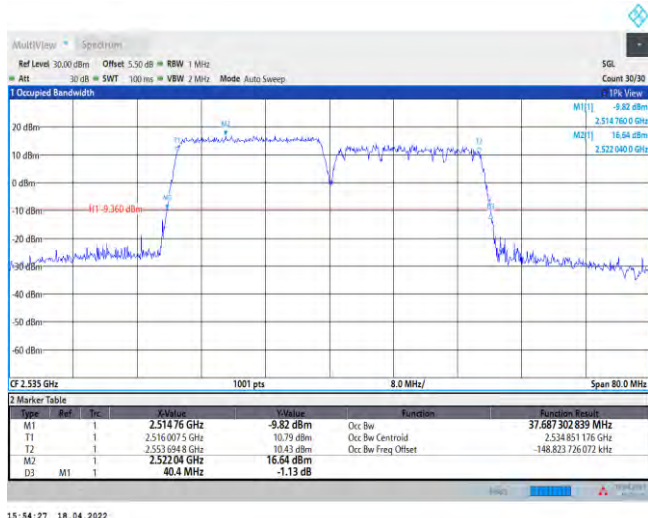
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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0

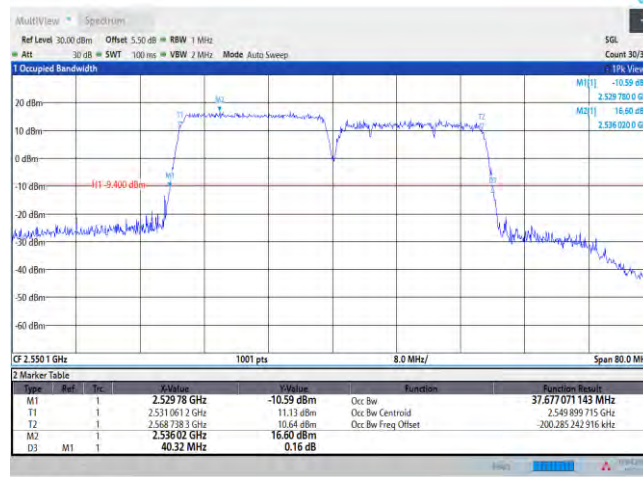


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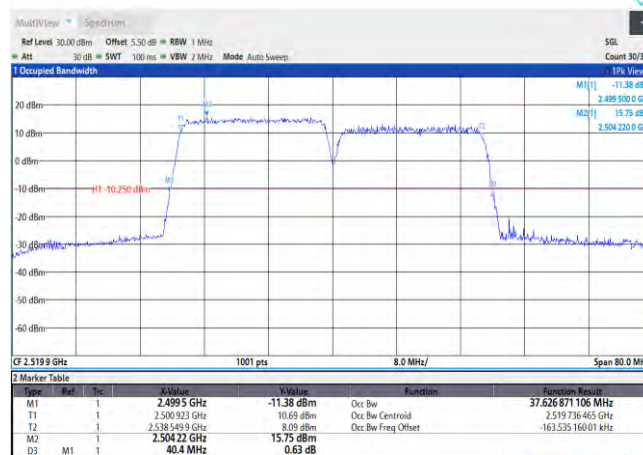
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



15:56:37 18.04.2022

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



15:52:45 18.04.2022

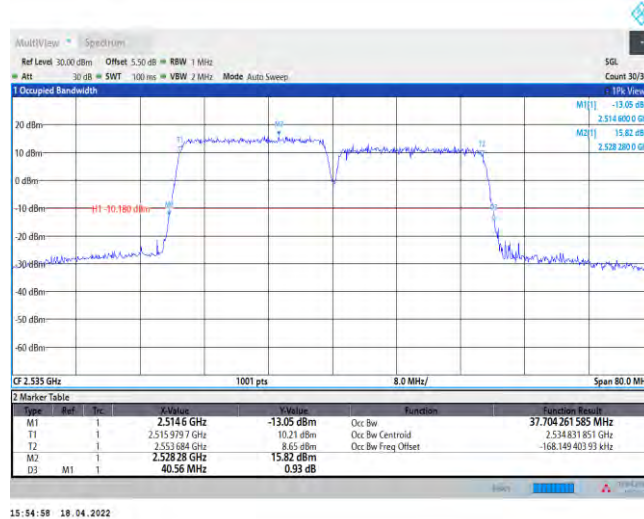


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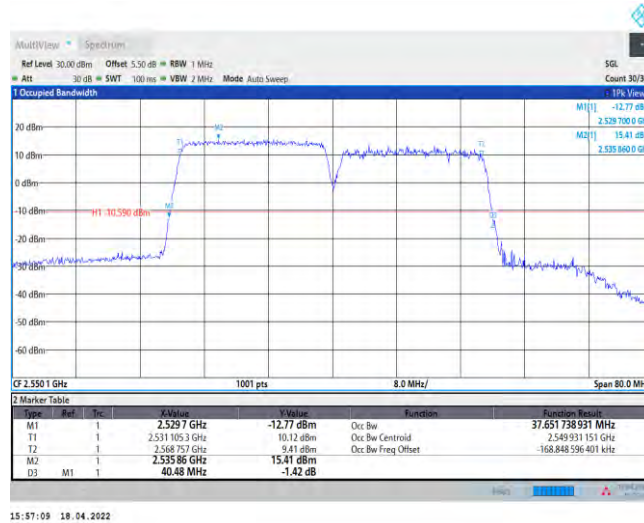
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7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



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



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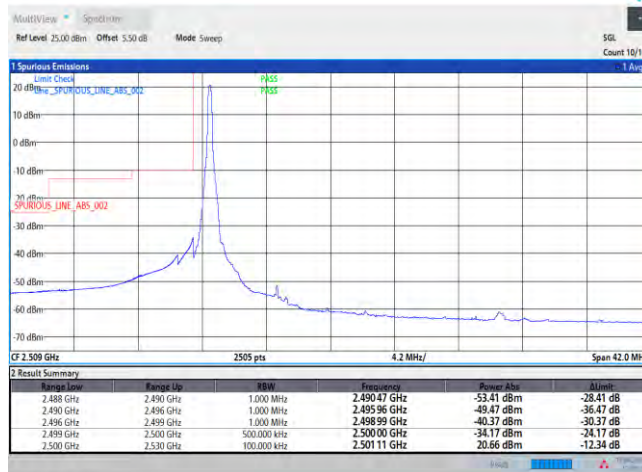
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## Band Edge

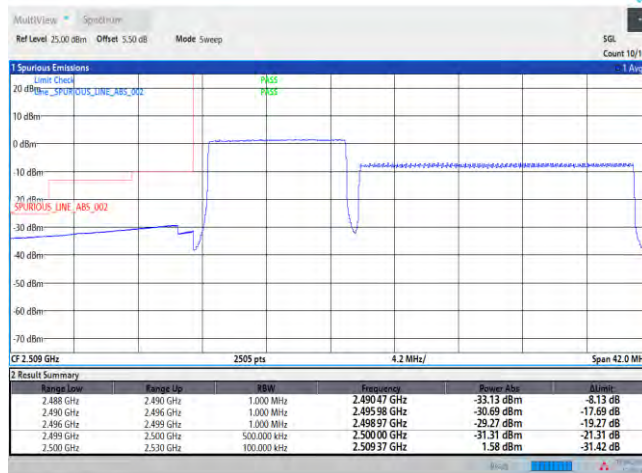
## Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



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



13:43:42 18.04.2022



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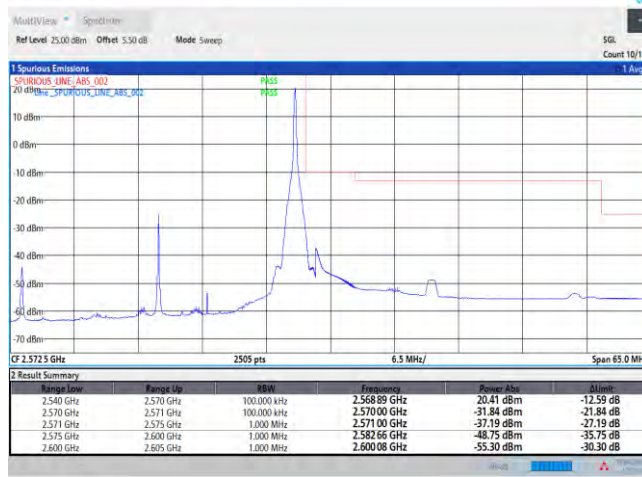
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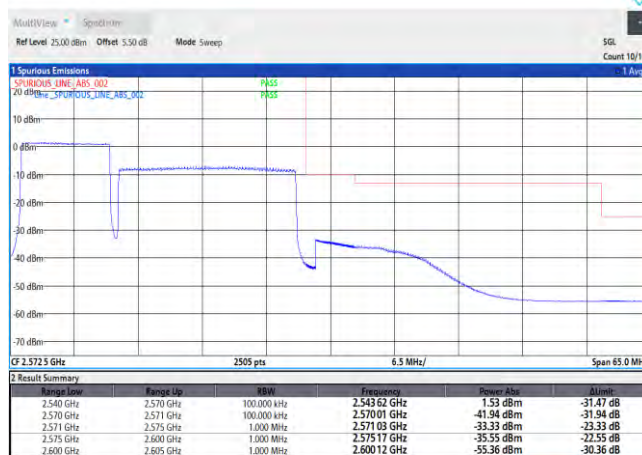
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



13:53:41 18.04.2022

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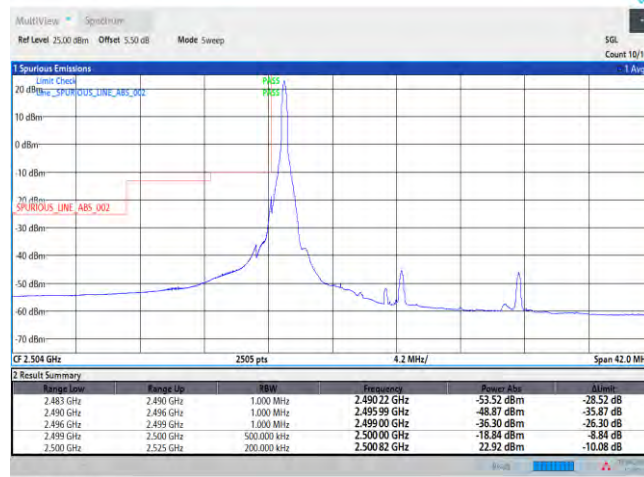
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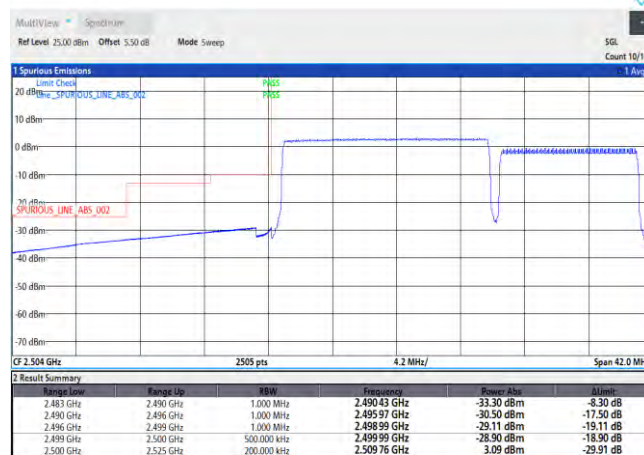


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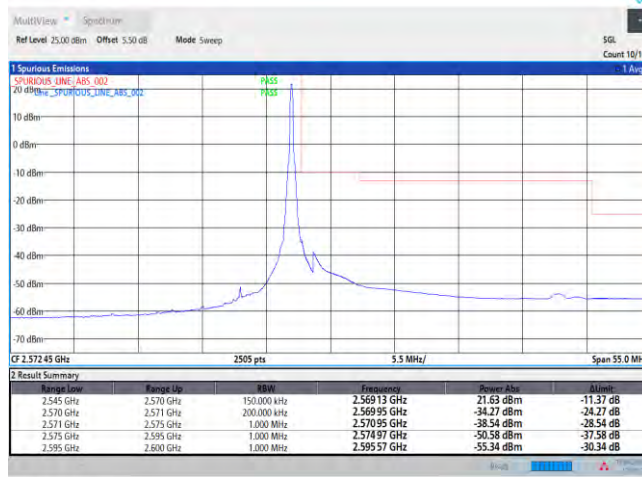
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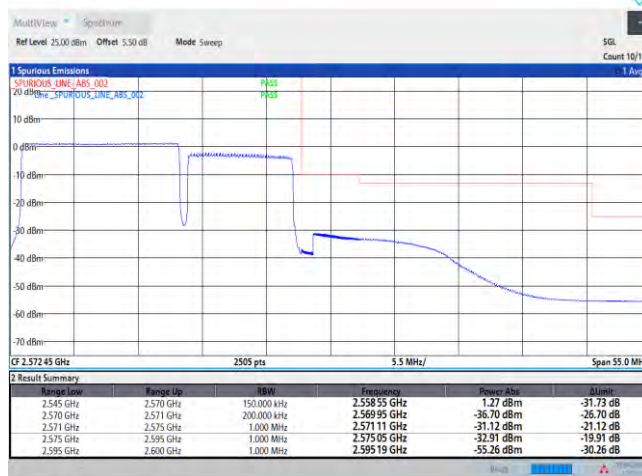
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



13:49:59 18.04.2022

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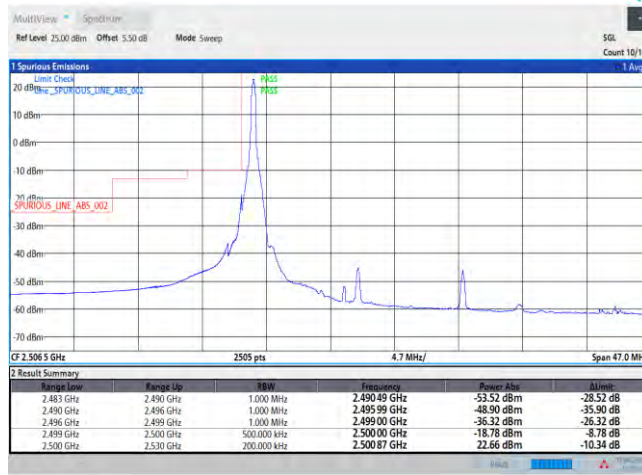


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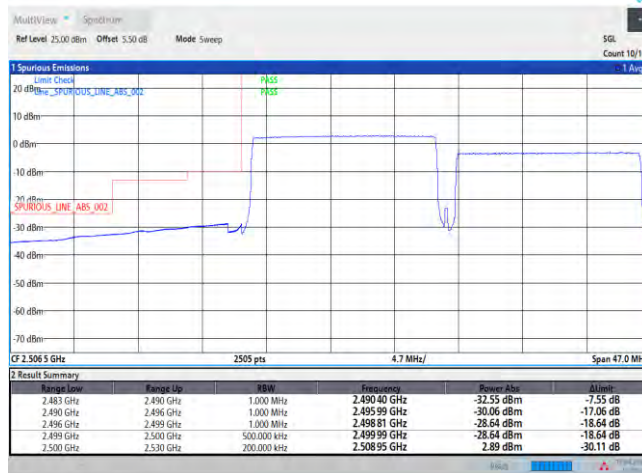
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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14:18:01 18.04.2022



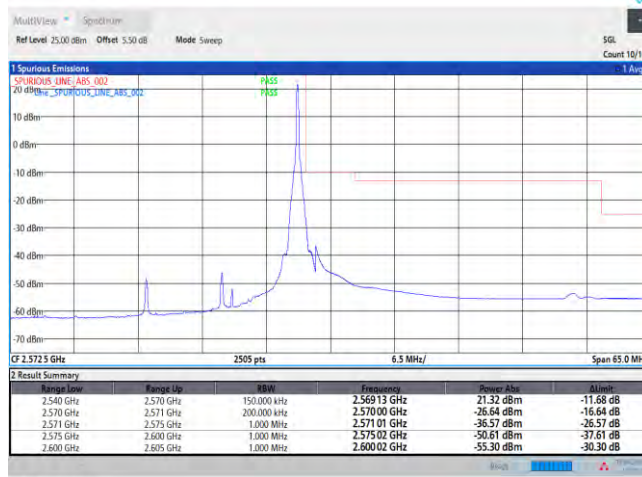
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



14:19:27 18.04.2022

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14:20:44 18.04.2022

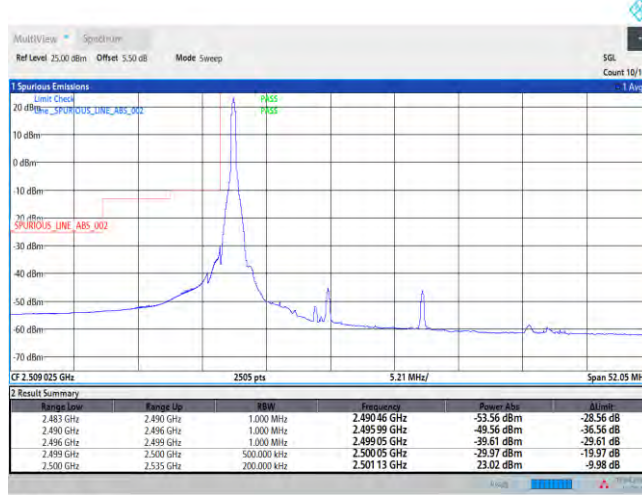


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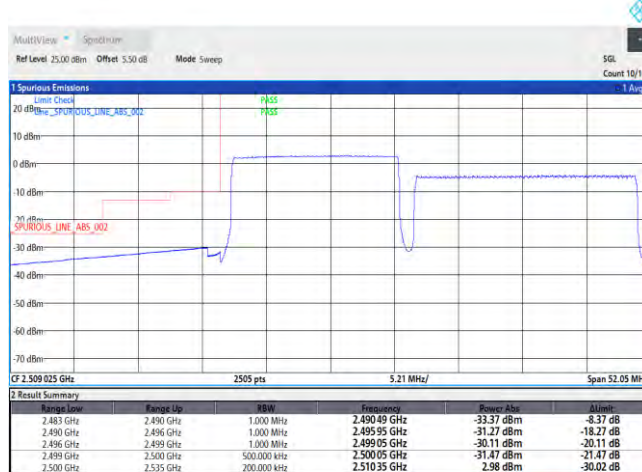
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



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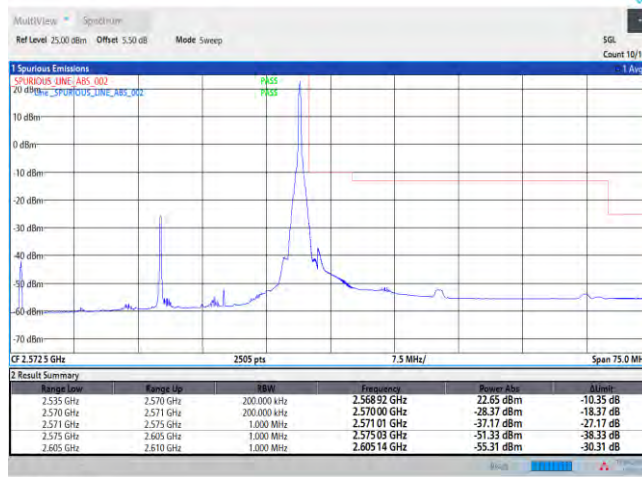
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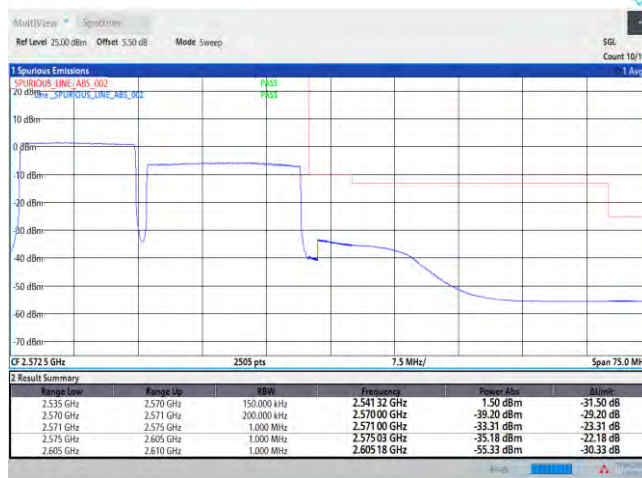
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14:44:37 18.04.2022



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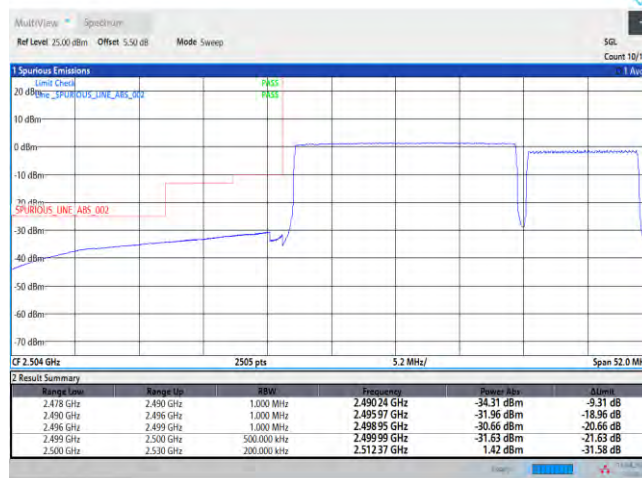
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



15:03:23 18. 04. 2022

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15:04:39 18. 04. 2022



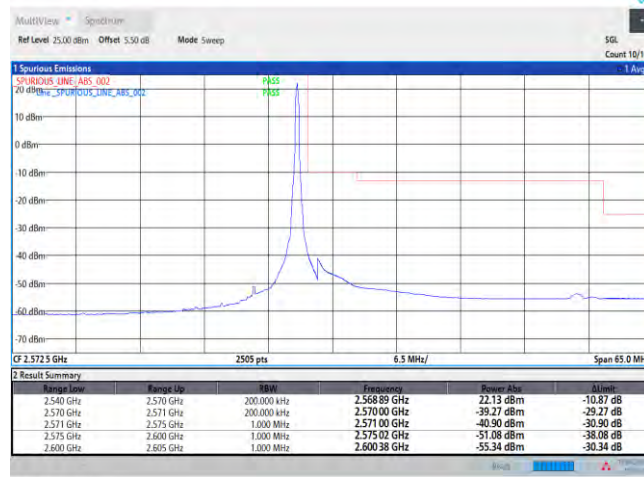
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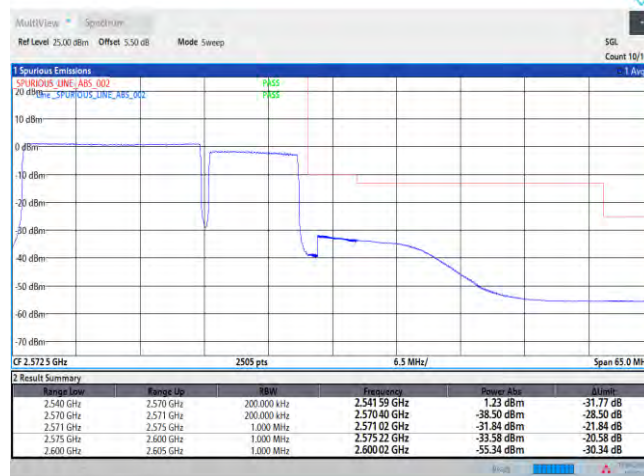
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



15:06:09 18.04.2022

7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



15:07:25 18.04.2022



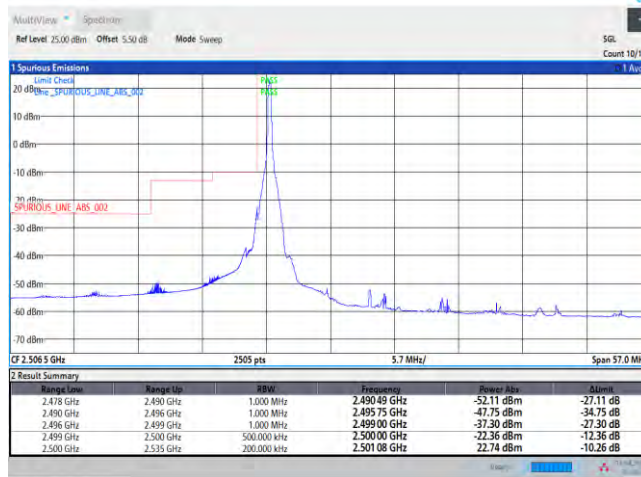
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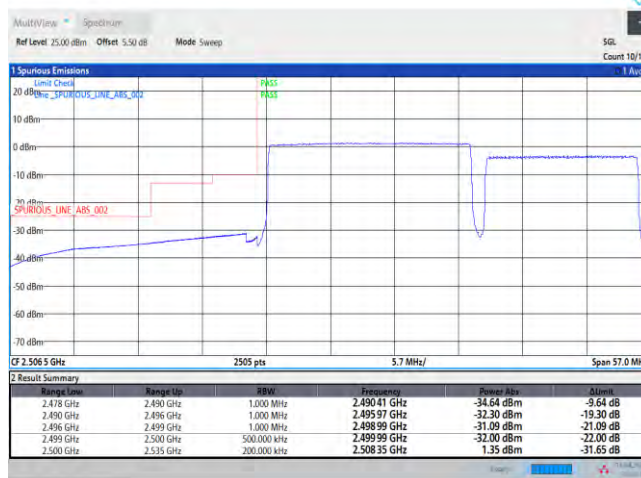


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15:26:27 18. 04. 2022

7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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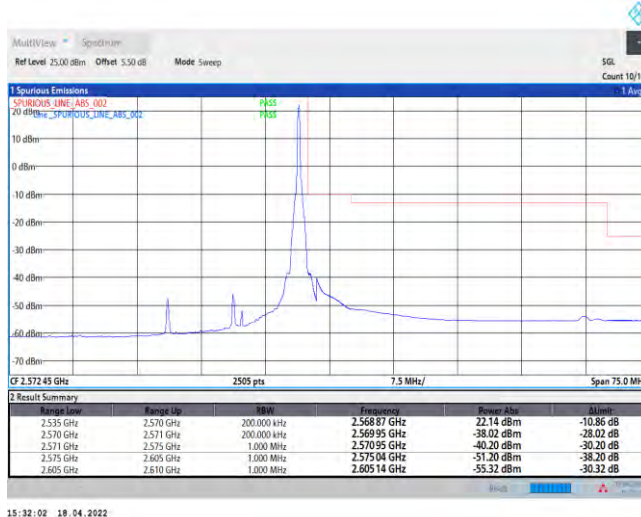


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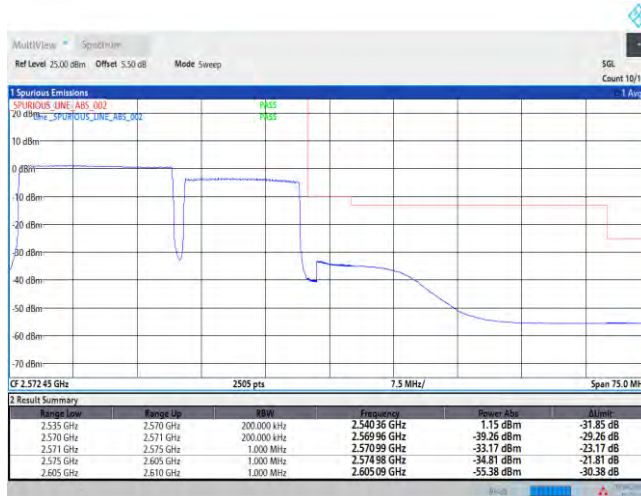
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



15:32:02 18.04.2022

7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



15:33:18 18.04.2022



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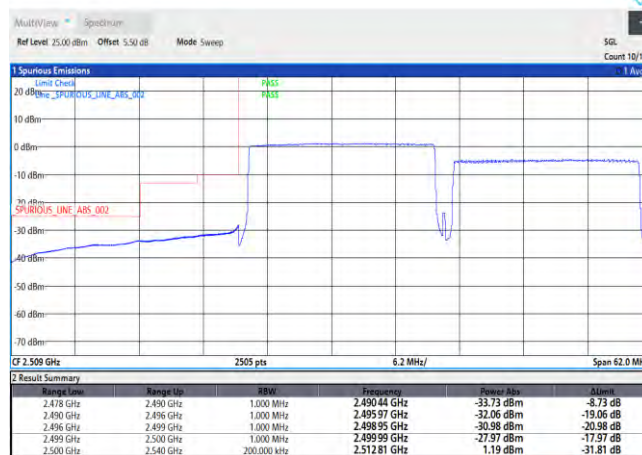
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



15:58:37 18. 04. 2022

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



15:59:54 18. 04. 2022

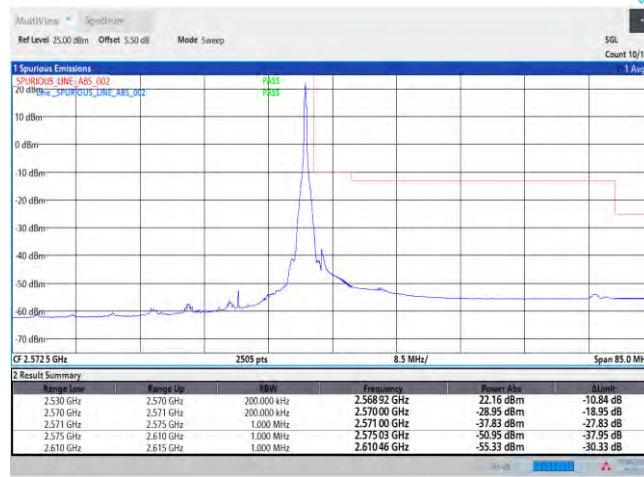


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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



16:04:00 18.04.2022

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



16:05:16 18.04.2022



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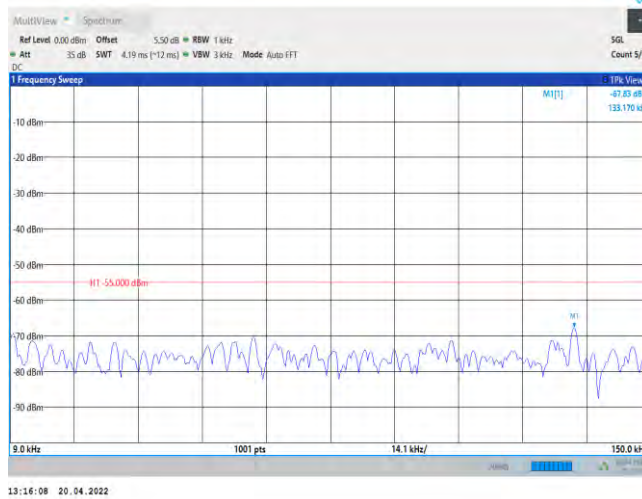
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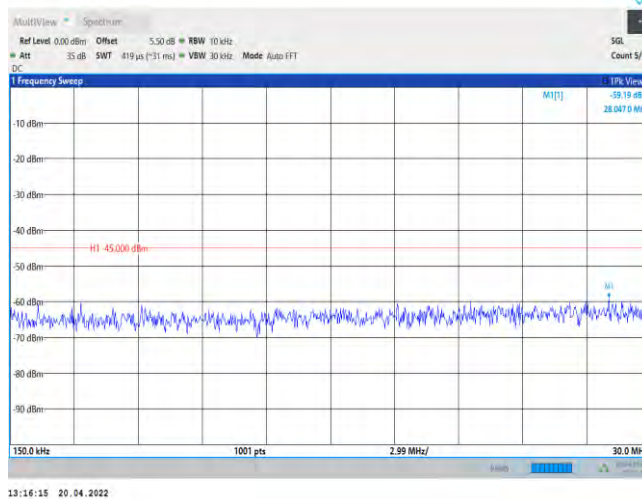
## Conducted Spurious Emission

### Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



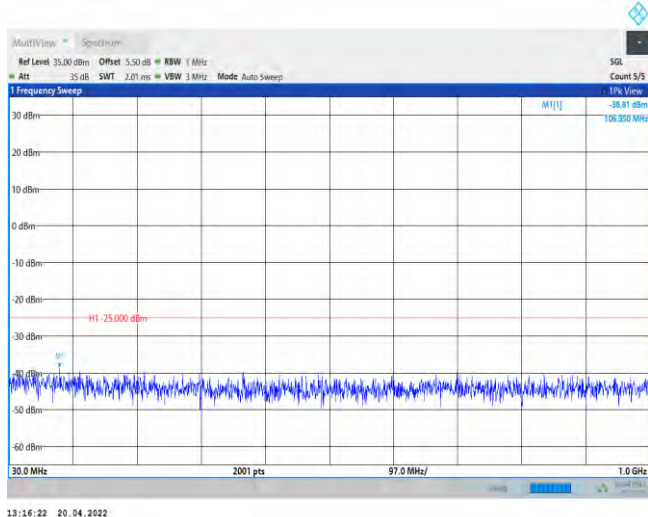
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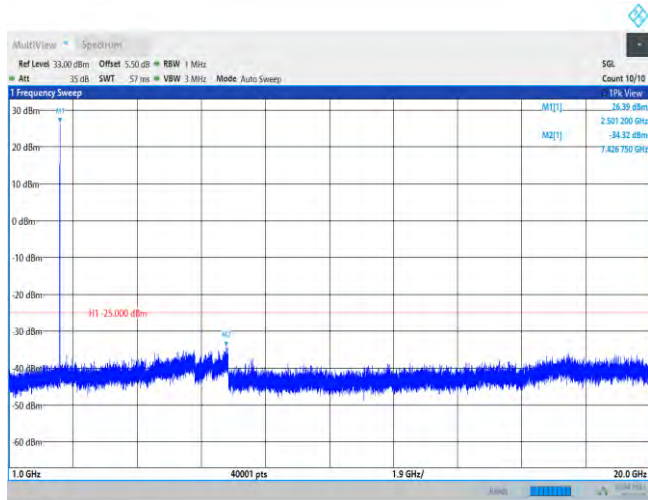
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



13:16:22 20.04.2022

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz

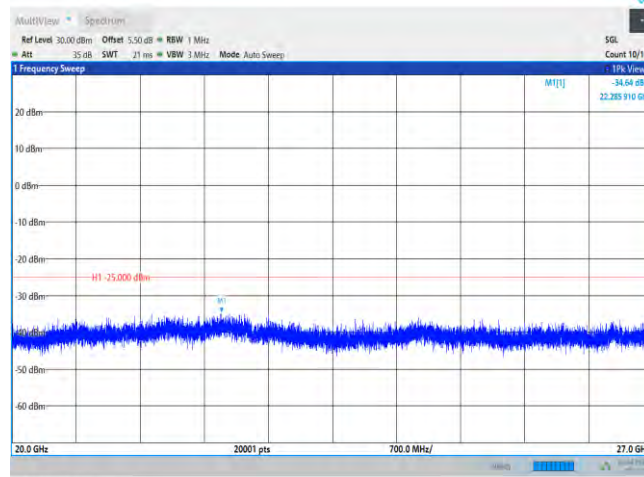


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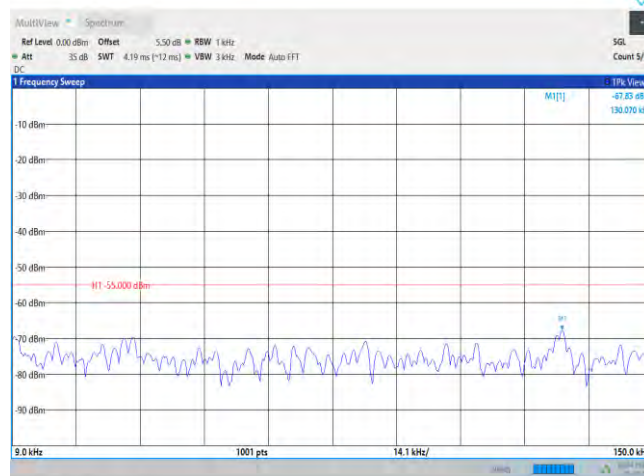
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13:16:38 20.04.2022

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



15:00:15 20.04.2022



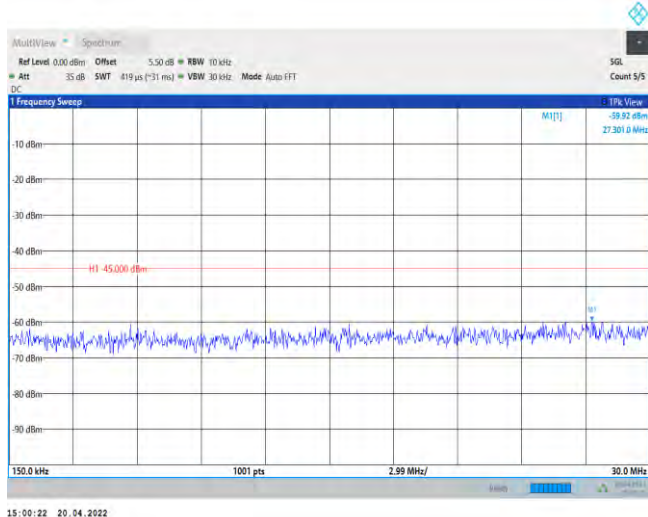
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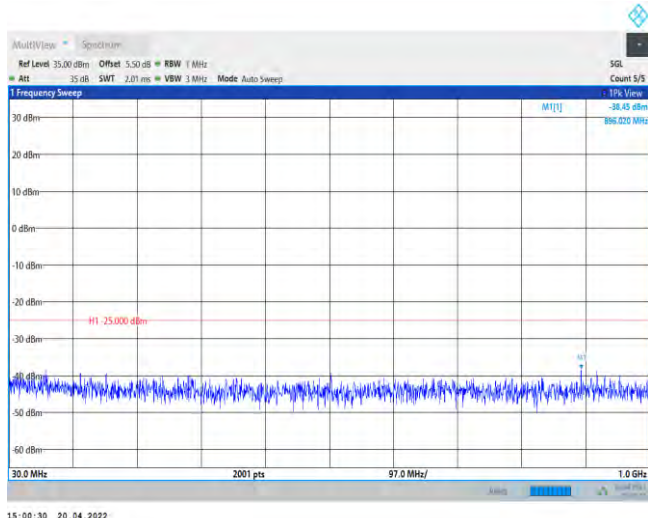
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz

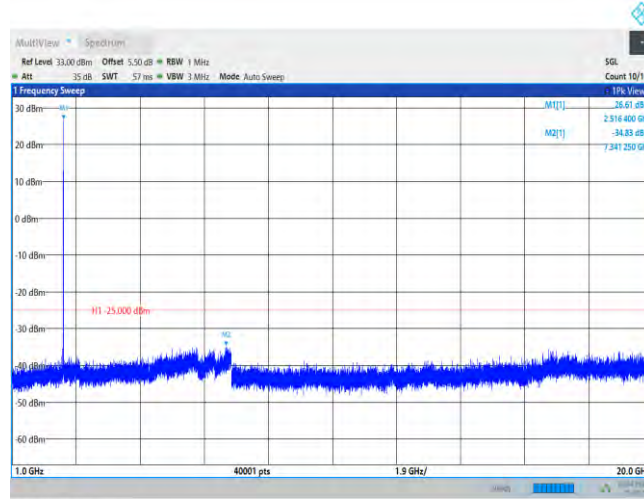


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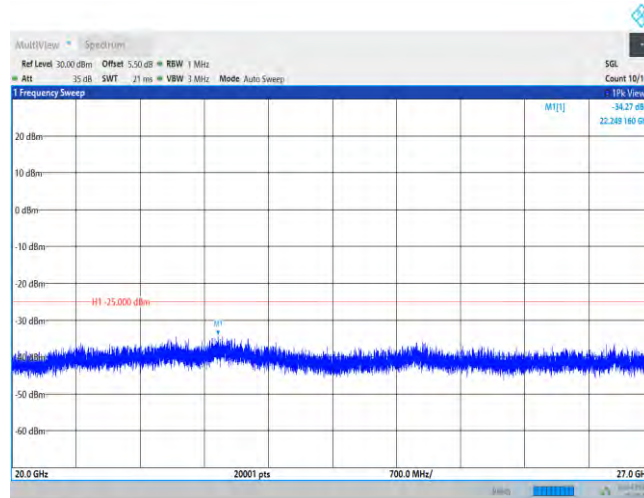


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15:00:38 20.04.2022

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15:00:45 20.04.2022

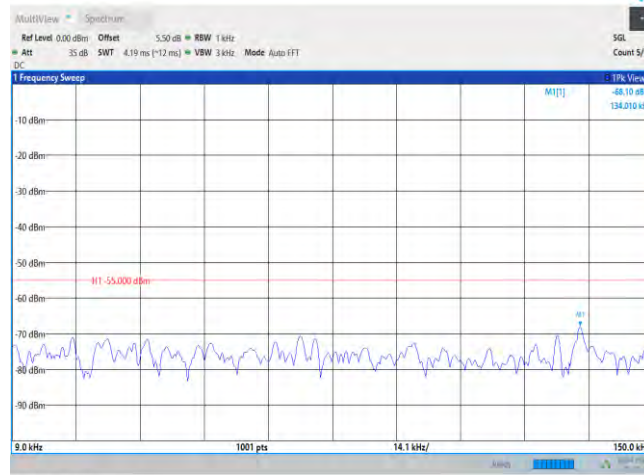


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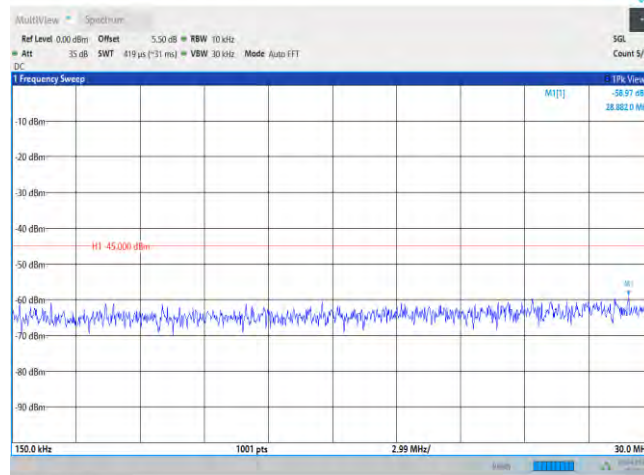
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



15:01:25 20.04.2022

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



15:01:33 20.04.2022

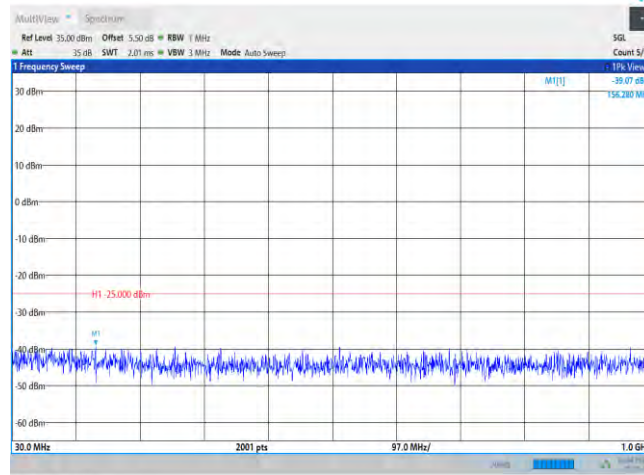


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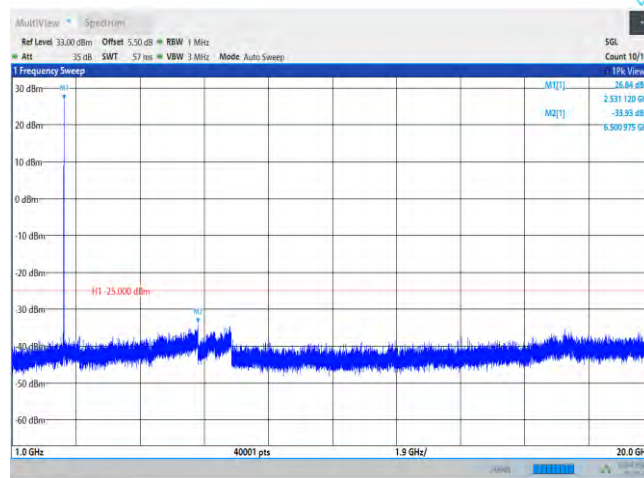
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz

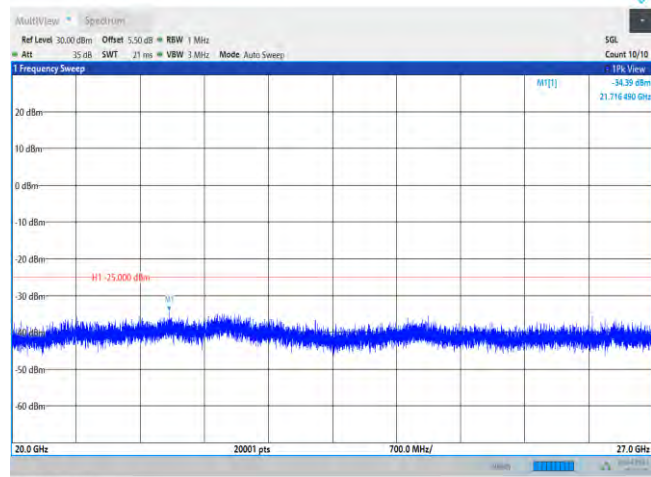


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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
 Wireless Laboratory

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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



15:01:56 20.04.2022



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## Field Strength of Spurious Radiation

Test Band = UL CA Band 7C\_TM1

Test Channel = Low Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5002.18         | 49.80          | -107.58     | -57.78      | -25.00      | 32.78       | 263         | 360       | Horizontal |
| 2               | 7503.27         | 49.27          | -100.34     | -51.07      | -25.00      | 26.07       | 251         | 198       | Horizontal |
| 3               | 10004.36        | 45.02          | -93.89      | -48.87      | -25.00      | 23.87       | 174         | 175       | Horizontal |
| 4               | 12505.45        | 44.43          | -91.38      | -46.95      | -25.00      | 21.95       | 262         | 3         | Horizontal |
| 5               | 15006.54        | 42.92          | -90.07      | -47.15      | -25.00      | 22.15       | 284         | 359       | Horizontal |
| 6               | 17507.63        | 39.91          | -86.50      | -46.59      | -25.00      | 21.59       | 176         | 139       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5002.18         | 50.48          | -107.58     | -57.10      | -25.00      | 32.10       | 263         | 312       | Vertical |
| 2               | 7503.27         | 48.89          | -100.34     | -51.45      | -25.00      | 26.45       | 241         | 278       | Vertical |
| 3               | 10004.36        | 44.83          | -93.89      | -49.06      | -25.00      | 24.06       | 176         | 360       | Vertical |
| 4               | 12505.45        | 45.35          | -91.38      | -46.03      | -25.00      | 21.03       | 294         | 150       | Vertical |
| 5               | 15006.54        | 42.62          | -90.07      | -47.45      | -25.00      | 22.45       | 186         | 255       | Vertical |
| 6               | 17507.63        | 39.75          | -86.50      | -46.75      | -25.00      | 21.75       | 124         | 278       | Vertical |



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Test Band = UL CA Band 7C\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5032.38         | 50.66          | -107.38     | -56.72      | -25.00      | 31.72       | 263         | 242       | Horizontal |
| 2               | 7548.27         | 47.97          | -100.09     | -52.12      | -25.00      | 27.12       | 241         | 356       | Horizontal |
| 3               | 10064.76        | 44.29          | -93.62      | -49.33      | -25.00      | 24.33       | 176         | 11        | Horizontal |
| 4               | 12580.95        | 44.18          | -90.74      | -46.56      | -25.00      | 21.56       | 251         | 360       | Horizontal |
| 5               | 15097.14        | 42.97          | -90.54      | -47.57      | -25.00      | 22.57       | 148         | 56        | Horizontal |
| 6               | 17613.33        | 41.09          | -85.88      | -44.79      | -25.00      | 19.79       | 162         | 138       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5032.38         | 51.17          | -107.38     | -56.21      | -25.00      | 31.21       | 263         | 3         | Vertical |
| 2               | 7548.27         | 49.14          | -100.09     | -50.95      | -25.00      | 25.95       | 251         | 11        | Vertical |
| 3               | 10064.76        | 43.95          | -93.62      | -49.67      | -25.00      | 24.67       | 174         | 22        | Vertical |
| 4               | 12580.95        | 43.35          | -90.74      | -47.39      | -25.00      | 22.39       | 162         | 11        | Vertical |
| 5               | 15097.14        | 42.50          | -90.54      | -48.04      | -25.00      | 23.04       | 284         | 3         | Vertical |
| 6               | 17613.33        | 41.14          | -85.88      | -44.74      | -25.00      | 19.74       | 166         | 128       | Vertical |



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Test Band = UL CA Band 7C\_ TM1

Test Channel = High Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5062.58         | 50.14          | -107.19     | -57.05      | -25.00      | 32.05       | 263         | 360       | Horizontal |
| 2               | 7593.87         | 49.50          | -99.85      | -50.35      | -25.00      | 25.35       | 251         | 277       | Horizontal |
| 3               | 10125.16        | 45.40          | -93.36      | -47.96      | -25.00      | 22.96       | 174         | 58        | Horizontal |
| 4               | 12656.45        | 44.05          | -90.88      | -46.83      | -25.00      | 21.83       | 262         | 356       | Horizontal |
| 5               | 15187.74        | 42.40          | -89.00      | -46.60      | -25.00      | 21.60       | 254         | 4         | Horizontal |
| 6               | 17719.03        | 40.68          | -84.72      | -44.04      | -25.00      | 19.04       | 178         | 82        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5062.58         | 50.44          | -107.19     | -56.75      | -25.00      | 31.75       | 263         | 113       | Vertical |
| 2               | 7593.87         | 49.21          | -99.85      | -50.64      | -25.00      | 25.64       | 251         | 360       | Vertical |
| 3               | 10125.16        | 45.03          | -93.36      | -48.33      | -25.00      | 23.33       | 174         | 3         | Vertical |
| 4               | 12656.45        | 43.69          | -90.88      | -47.19      | -25.00      | 22.19       | 264         | 359       | Vertical |
| 5               | 15187.74        | 42.53          | -89.00      | -46.47      | -25.00      | 21.47       | 188         | 11        | Vertical |
| 6               | 17719.03        | 40.90          | -84.72      | -43.82      | -25.00      | 18.82       | 264         | 148       | Vertical |



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## Frequency Stability

### Test Result

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VH            | NT               | 47.60          | 0.018851        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VL            | NT               | 57.20          | 0.022653        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VN            | NT               | 50.00          | 0.019801        | PASS    |

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -30              | 50.70          | 0.020078        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -20              | 49.60          | 0.019643        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -10              | 48.50          | 0.019207        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 0                | 53.40          | 0.021148        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 10               | 41.10          | 0.016277        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 20               | 52.20          | 0.020672        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 30               | 46.90          | 0.018574        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 40               | 65.80          | 0.026058        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 50               | 37.50          | 0.014851        | PASS    |

The End



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