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# Appendix B.19

LTE CA\_5B



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## Effective (Isotropic) Radiated Power Output Data

### Test ResultAnt7

| Band | Bandwidth   | Modulation  | Channel     | RB Configuration | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|------|-------------|-------------|-------------|------------------|--------------|-----------|-------------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20450-20549 | 1RB#0-0RB#0      | 22.73        | 9.9       | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20450-20549 | 50RB#0-50RB#0    | 21.05        | 8.22      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20476-20575 | 1RB#0-0RB#0      | 22.71        | 9.88      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20476-20575 | 50RB#0-50RB#0    | 20.92        | 8.09      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20501-20600 | 1RB#0-0RB#0      | 22.81        | 9.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK   | 20501-20600 | 50RB#0-50RB#0    | 20.81        | 7.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20450-20549 | 1RB#0-0RB#0      | 22.1         | 9.27      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20450-20549 | 50RB#0-50RB#0    | 19.95        | 7.12      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20476-20575 | 1RB#0-0RB#0      | 22.05        | 9.22      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20476-20575 | 50RB#0-50RB#0    | 19.81        | 6.98      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20501-20600 | 1RB#0-0RB#0      | 21.92        | 9.09      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM | 20501-20600 | 50RB#0-50RB#0    | 19.96        | 7.13      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM | 20450-20549 | 1RB#0-0RB#0      | 21.02        | 8.19      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM | 20450-20549 | 50RB#0-50RB#0    | 19.89        | 7.06      | 38.45       | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM | 20476-20575 | 1RB#0-0RB#0      | 21.12        | 8.29      | 38.45       | PASS    |
| 5-5  | 10MHz-      | 64QAM-64QAM | 20476-      | 50RB#0-          | 19.9         | 7.07      | 38.4        | PASS    |



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|-----|-------------|---------------|-------------|---------------|-------|------|-------|------|
|     | 10MHz       |               | 20575       | 50RB#0        |       |      | 5     |      |
| 5-5 | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 1RB#0-0RB#0   | 21.07 | 8.24 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0 | 19.86 | 7.03 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 1RB#0-0RB#0   | 17.82 | 4.99 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0 | 17.89 | 5.06 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 1RB#0-0RB#0   | 17.88 | 5.05 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0 | 17.9  | 5.07 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 1RB#0-0RB#0   | 17.98 | 5.15 | 38.45 | PASS |
| 5-5 | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0 | 18    | 5.17 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 1RB#0-0RB#0   | 22.63 | 9.8  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 50RB#0-25RB#0 | 21.07 | 8.24 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20500-20572 | 1RB#0-0RB#0   | 22.62 | 9.79 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20500-20572 | 50RB#0-25RB#0 | 21.02 | 8.19 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20550-20622 | 1RB#0-0RB#0   | 22.82 | 9.99 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | QPSK-QPSK     | 20550-20622 | 50RB#0-25RB#0 | 21    | 8.17 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | 16QAM-16QAM   | 20450-20522 | 1RB#0-0RB#0   | 22.04 | 9.21 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | 16QAM-16QAM   | 20450-20522 | 50RB#0-25RB#0 | 19.95 | 7.12 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | 16QAM-16QAM   | 20500-20572 | 1RB#0-0RB#0   | 21.99 | 9.16 | 38.45 | PASS |
| 5-5 | 10MHz-5MHz  | 16QAM-16QAM   | 20500-20572 | 50RB#0-25RB#0 | 19.91 | 7.08 | 38.45 | PASS |



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| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20550-20622 | 1RB#0-0RB#0   | 22.14 | 9.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 16QAM-16QAM   | 20550-20622 | 50RB#0-25RB#0 | 20.03 | 7.2   | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20450-20522 | 1RB#0-0RB#0   | 21.14 | 8.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20450-20522 | 50RB#0-25RB#0 | 20.15 | 7.32  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20500-20572 | 1RB#0-0RB#0   | 21.1  | 8.27  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20500-20572 | 50RB#0-25RB#0 | 19.96 | 7.13  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20550-20622 | 1RB#0-0RB#0   | 21.11 | 8.28  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 64QAM-64QAM   | 20550-20622 | 50RB#0-25RB#0 | 20.14 | 7.31  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20450-20522 | 1RB#0-0RB#0   | 18.04 | 5.21  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20450-20522 | 50RB#0-25RB#0 | 17.99 | 5.16  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20500-20572 | 1RB#0-0RB#0   | 17.93 | 5.1   | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20500-20572 | 50RB#0-25RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20550-20622 | 1RB#0-0RB#0   | 17.95 | 5.12  | 38.45 | PASS |
| 5-5 | 10MHz-5MHz | 256QAM-256QAM | 20550-20622 | 50RB#0-25RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20416-20455 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20416-20455 | 1RB#0-0RB#0   | 22.93 | 10.1  | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20501-20540 | 15RB#0-25RB#0 | 23.07 | 10.24 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20501-20540 | 1RB#0-0RB#0   | 23.07 | 10.24 | 38.45 | PASS |
| 5-5 | 3MHz-5MHz  | QPSK-QPSK     | 20586-      | 15RB#0-       | 23.1  | 10.2  | 38.4  | PASS |



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|-----|-----------|---------------|-------------|---------------|-------|-------|------------|
|     |           |               | 20625       | 25RB#0        | 7     | 5     |            |
| 5-5 | 3MHz-5MHz | QPSK-QPSK     | 20586-20625 | 1RB#0-0RB#0   | 23.01 | 10.18 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20416-20455 | 15RB#0-25RB#0 | 23.05 | 10.22 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20416-20455 | 1RB#0-0RB#0   | 23.4  | 10.57 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20501-20540 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20501-20540 | 1RB#0-0RB#0   | 23.34 | 10.51 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20586-20625 | 15RB#0-25RB#0 | 23.22 | 10.39 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 16QAM-16QAM   | 20586-20625 | 1RB#0-0RB#0   | 23.34 | 10.51 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20416-20455 | 15RB#0-25RB#0 | 23.04 | 10.21 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20416-20455 | 1RB#0-0RB#0   | 23.45 | 10.62 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20501-20540 | 15RB#0-25RB#0 | 23.11 | 10.28 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20501-20540 | 1RB#0-0RB#0   | 23.47 | 10.64 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20586-20625 | 15RB#0-25RB#0 | 23.2  | 10.37 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 64QAM-64QAM   | 20586-20625 | 1RB#0-0RB#0   | 23.33 | 10.5  | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 256QAM-256QAM | 20416-20455 | 15RB#0-25RB#0 | 23.01 | 10.18 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 256QAM-256QAM | 20416-20455 | 1RB#0-0RB#0   | 23.18 | 10.35 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 256QAM-256QAM | 20501-20540 | 15RB#0-25RB#0 | 23.09 | 10.26 | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 256QAM-256QAM | 20501-20540 | 1RB#0-0RB#0   | 23.23 | 10.4  | 38.45 PASS |
| 5-5 | 3MHz-5MHz | 256QAM-256QAM | 20586-20625 | 15RB#0-25RB#0 | 23.14 | 10.31 | 38.45 PASS |



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| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20586-20625 | 1RB#0-0RB#0   | 23.41 | 10.58 | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 1RB#0-0RB#0   | 22.71 | 9.88  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 25RB#0-50RB#0 | 20.91 | 8.08  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 1RB#0-0RB#0   | 22.64 | 9.81  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 25RB#0-50RB#0 | 20.86 | 8.03  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 1RB#0-0RB#0   | 22.75 | 9.92  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 25RB#0-50RB#0 | 21.03 | 8.2   | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 1RB#0-0RB#0   | 21.97 | 9.14  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 25RB#0-50RB#0 | 19.94 | 7.11  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 1RB#0-0RB#0   | 21.94 | 9.11  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 25RB#0-50RB#0 | 20.02 | 7.19  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 1RB#0-0RB#0   | 21.95 | 9.12  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 25RB#0-50RB#0 | 19.88 | 7.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 1RB#0-0RB#0   | 21.11 | 8.28  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 25RB#0-50RB#0 | 19.91 | 7.08  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 1RB#0-0RB#0   | 20.77 | 7.94  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 25RB#0-50RB#0 | 19.84 | 7.01  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-20600 | 1RB#0-0RB#0   | 21.12 | 8.29  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-      | 25RB#0-       | 19.98 | 7.15  | 38.4  | PASS |



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|     |            |               |             |               |       |       |       |      |
|-----|------------|---------------|-------------|---------------|-------|-------|-------|------|
|     |            |               | 20600       | 50RB#0        |       |       | 5     |      |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 1RB#0-0RB#0   | 17.9  | 5.07  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 25RB#0-50RB#0 | 18.03 | 5.2   | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 1RB#0-0RB#0   | 17.88 | 5.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 25RB#0-50RB#0 | 17.88 | 5.05  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 1RB#0-0RB#0   | 18.08 | 5.25  | 38.45 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 25RB#0-50RB#0 | 17.94 | 5.11  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 1RB#0-0RB#0   | 22.8  | 9.97  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 25RB#0-15RB#0 | 23.15 | 10.32 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 1RB#0-0RB#0   | 22.78 | 9.95  | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 25RB#0-15RB#0 | 23.1  | 10.27 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 1RB#0-0RB#0   | 22.88 | 10.05 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 25RB#0-15RB#0 | 23.14 | 10.31 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 1RB#0-0RB#0   | 22.97 | 10.14 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 25RB#0-15RB#0 | 23.06 | 10.23 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 1RB#0-0RB#0   | 22.98 | 10.15 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 25RB#0-15RB#0 | 22.9  | 10.07 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 1RB#0-0RB#0   | 23.05 | 10.22 | 38.45 | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 25RB#0-15RB#0 | 23.05 | 10.22 | 38.45 | PASS |



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|     |           |               |             |               |       |           |           |      |
|-----|-----------|---------------|-------------|---------------|-------|-----------|-----------|------|
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20425-20464 | 1RB#0-0RB#0   | 23.19 | 10.3<br>6 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20425-20464 | 25RB#0-15RB#0 | 23.12 | 10.2<br>9 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20510-20549 | 1RB#0-0RB#0   | 23.29 | 10.4<br>6 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20510-20549 | 25RB#0-15RB#0 | 22.99 | 10.1<br>6 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20595-20634 | 1RB#0-0RB#0   | 23.16 | 10.3<br>3 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 64QAM-64QAM   | 20595-20634 | 25RB#0-15RB#0 | 23    | 10.1<br>7 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20425-20464 | 1RB#0-0RB#0   | 23.08 | 10.2<br>5 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20425-20464 | 25RB#0-15RB#0 | 23.06 | 10.2<br>3 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20510-20549 | 1RB#0-0RB#0   | 22.99 | 10.1<br>6 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20510-20549 | 25RB#0-15RB#0 | 23.01 | 10.1<br>8 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20595-20634 | 1RB#0-0RB#0   | 23.12 | 10.2<br>9 | 38.4<br>5 | PASS |
| 5-5 | 5MHz-3MHz | 256QAM-256QAM | 20595-20634 | 25RB#0-15RB#0 | 23.07 | 10.2<br>4 | 38.4<br>5 | PASS |



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**Peak-to-Average Ratio(CCDF)****Test Result**

| Band | Bandwidth   | Modulation    | Channel     | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|------|-------------|---------------|-------------|------------------|------------|-----------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 50RB#0-50RB#0    | 6.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 50RB#0-50RB#0    | 6.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 50RB#0-50RB#0    | 6.04       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 50RB#0-50RB#0    | 6.86       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 50RB#0-50RB#0    | 6.86       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 50RB#0-50RB#0    | 6.80       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 50RB#0-50RB#0    | 7.18       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 50RB#0-50RB#0    | 7.12       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0    | 7.08       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0    | 7.32       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0    | 7.24       | 13        | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0    | 7.08       | 13        | PASS    |



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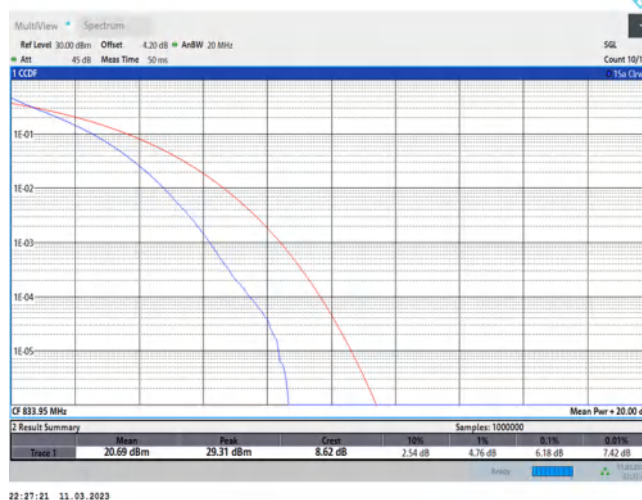
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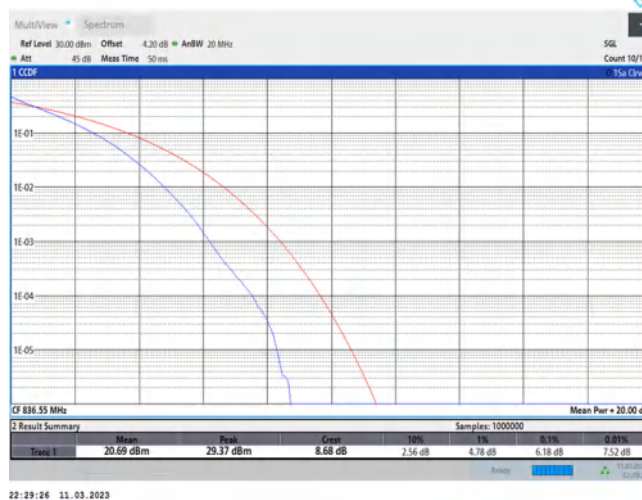
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### Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



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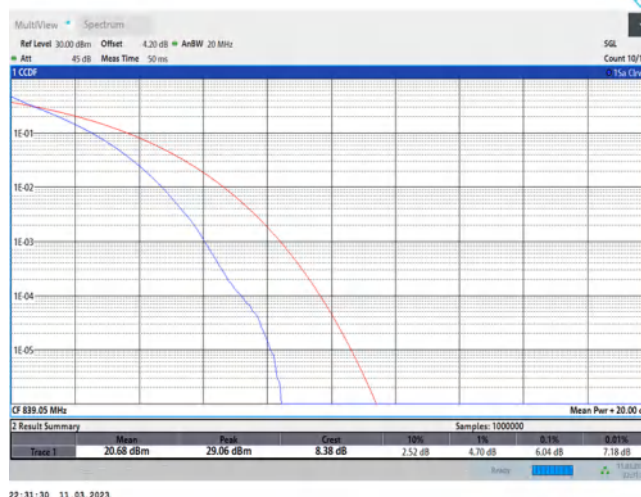
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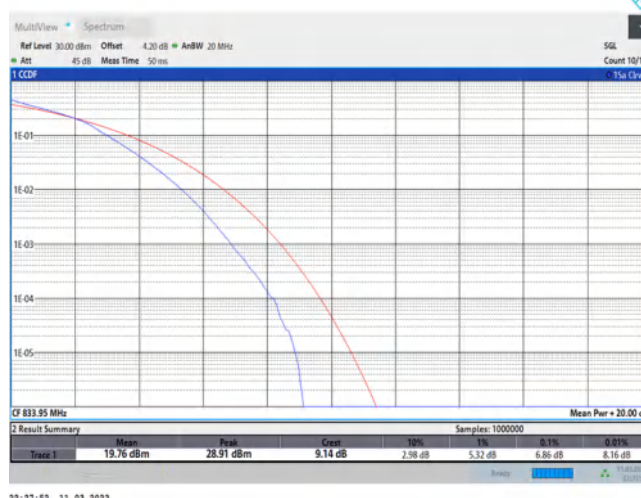
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



22:31:30 11.03.2023

### 5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



22:27:52 11.03.2023



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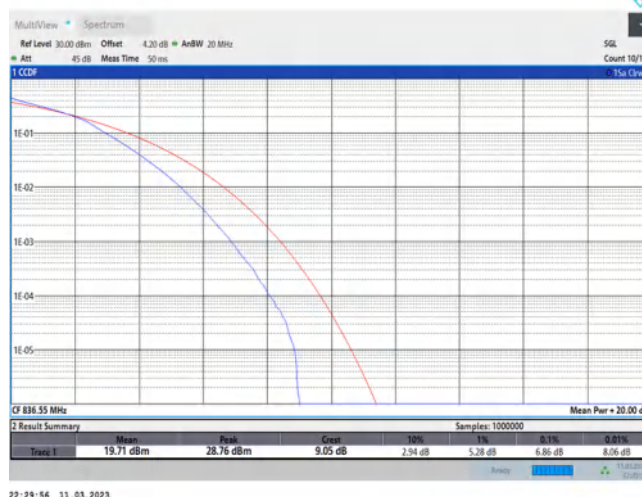
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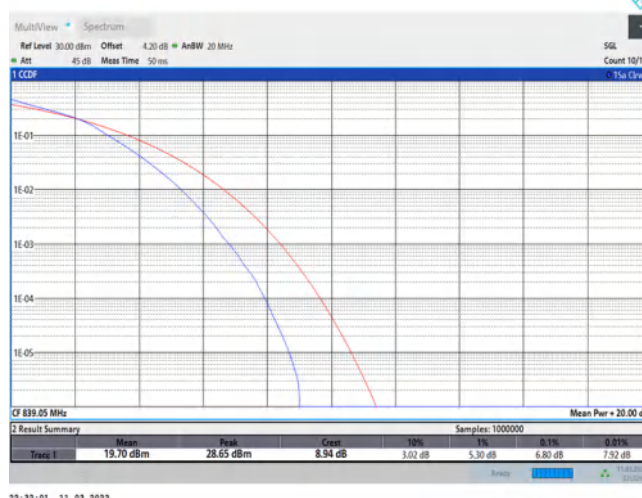
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### 5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



22:29:56 11.03.2023

### 5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



22:32:01 11.03.2023



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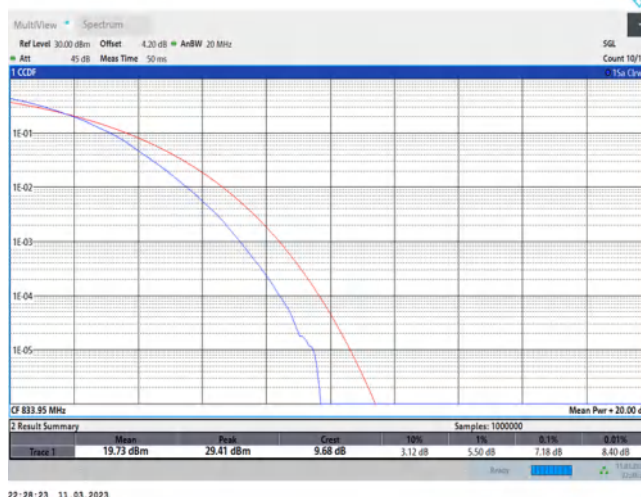
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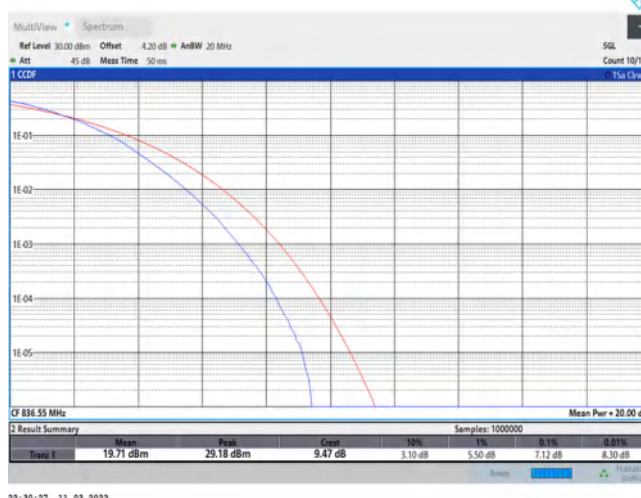
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### 5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



22:28:23 11.03.2023

### 5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



22:30:27 11.03.2023



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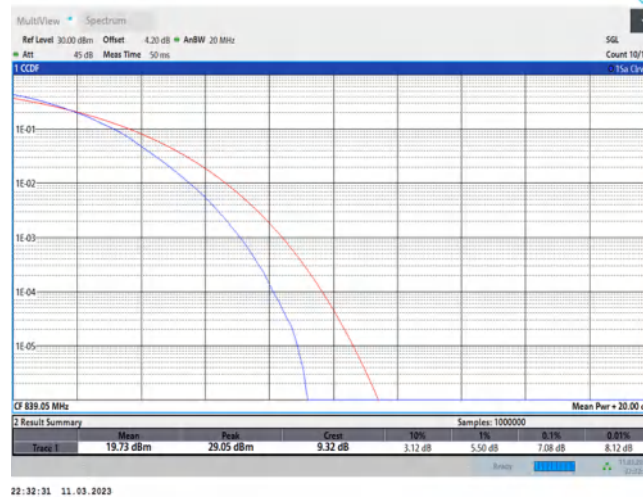
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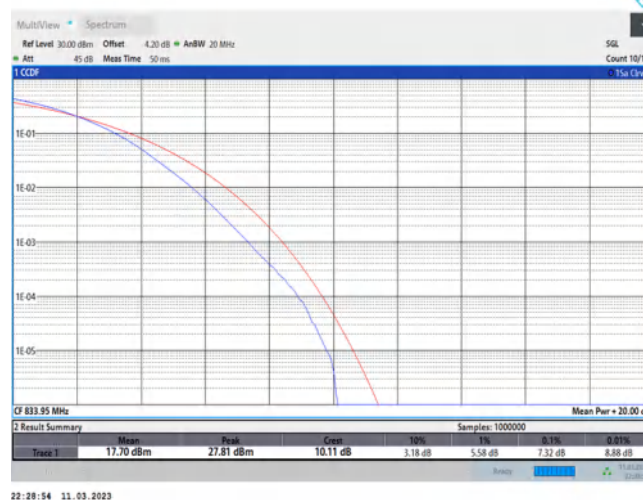
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### 5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



### 5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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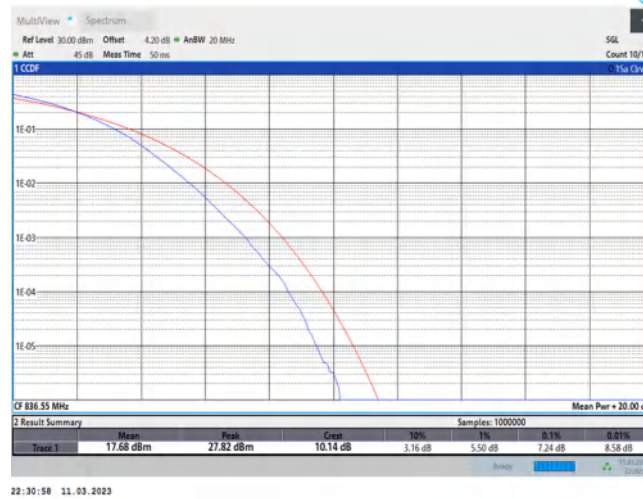
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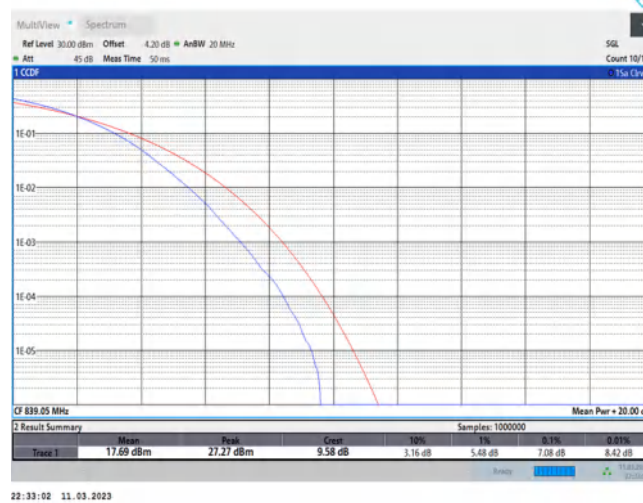
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## 5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



## 5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#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 |
|------|-------------|---------------|-------------|------------------|--------------------------|----------------------|---------|
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20450-20549 | 50RB#0-50RB#0    | 18.834                   | 20.08                | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20476-20575 | 50RB#0-50RB#0    | 18.802                   | 20.20                | PASS    |
| 5-5  | 10MHz-10MHz | QPSK-QPSK     | 20501-20600 | 50RB#0-50RB#0    | 18.796                   | 20.20                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20450-20549 | 50RB#0-50RB#0    | 18.794                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20476-20575 | 50RB#0-50RB#0    | 18.786                   | 20.00                | PASS    |
| 5-5  | 10MHz-10MHz | 16QAM-16QAM   | 20501-20600 | 50RB#0-50RB#0    | 18.779                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20450-20549 | 50RB#0-50RB#0    | 18.783                   | 20.16                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20476-20575 | 50RB#0-50RB#0    | 18.775                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 64QAM-64QAM   | 20501-20600 | 50RB#0-50RB#0    | 18.69                    | 20.04                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20450-20549 | 50RB#0-50RB#0    | 18.781                   | 20.08                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20476-20575 | 50RB#0-50RB#0    | 18.755                   | 20.12                | PASS    |
| 5-5  | 10MHz-10MHz | 256QAM-256QAM | 20501-20600 | 50RB#0-50RB#0    | 18.73                    | 20.08                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20450-20522 | 50RB#0-25RB#0    | 13.863                   | 14.82                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20500-20572 | 50RB#0-25RB#0    | 13.852                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | QPSK-QPSK     | 20550-20622 | 50RB#0-25RB#0    | 13.829                   | 14.79                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20450-20522 | 50RB#0-25RB#0    | 13.857                   | 14.73                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20500-20572 | 50RB#0-25RB#0    | 13.826                   | 14.73                | PASS    |
| 5-5  | 10MHz-5MHz  | 16QAM-16QAM   | 20550-20622 | 50RB#0-25RB#0    | 13.819                   | 14.82                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20450-20522 | 50RB#0-25RB#0    | 13.859                   | 14.85                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20500-20572 | 50RB#0-25RB#0    | 13.829                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | 64QAM-64QAM   | 20550-20622 | 50RB#0-25RB#0    | 13.798                   | 14.76                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20450-20522 | 50RB#0-25RB#0    | 13.877                   | 14.85                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20500-20572 | 50RB#0-25RB#0    | 13.838                   | 14.79                | PASS    |
| 5-5  | 10MHz-5MHz  | 256QAM-256QAM | 20550-20622 | 50RB#0-25RB#0    | 13.845                   | 14.88                | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20416-20455 | 15RB#0-25RB#0    | 7.447                    | 7.95                 | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20501-20540 | 15RB#0-25RB#0    | 7.455                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | QPSK-QPSK     | 20586-20625 | 15RB#0-25RB#0    | 7.451                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | 16QAM-16QAM   | 20416-20455 | 15RB#0-25RB#0    | 7.447                    | 7.94                 | PASS    |
| 5-5  | 3MHz-5MHz   | 16QAM-16QAM   | 20501-20540 | 15RB#0-25RB#0    | 7.457                    | 7.95                 | PASS    |



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|     |            |               |             |               |        |       |      |
|-----|------------|---------------|-------------|---------------|--------|-------|------|
| 5-5 | 3MHz-5MHz  | 16QAM-16QAM   | 20586-20625 | 15RB#0-25RB#0 | 7.439  | 7.92  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20416-20455 | 15RB#0-25RB#0 | 7.431  | 7.95  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20501-20540 | 15RB#0-25RB#0 | 7.455  | 8.00  | PASS |
| 5-5 | 3MHz-5MHz  | 64QAM-64QAM   | 20586-20625 | 15RB#0-25RB#0 | 7.439  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20416-20455 | 15RB#0-25RB#0 | 7.448  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20501-20540 | 15RB#0-25RB#0 | 7.479  | 7.97  | PASS |
| 5-5 | 3MHz-5MHz  | 256QAM-256QAM | 20586-20625 | 15RB#0-25RB#0 | 7.467  | 7.95  | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20428-20500 | 25RB#0-50RB#0 | 13.841 | 14.79 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20478-20550 | 25RB#0-50RB#0 | 13.803 | 14.79 | PASS |
| 5-5 | 5MHz-10MHz | QPSK-QPSK     | 20528-20600 | 25RB#0-50RB#0 | 13.81  | 14.76 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20428-20500 | 25RB#0-50RB#0 | 13.816 | 14.64 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20478-20550 | 25RB#0-50RB#0 | 13.794 | 14.58 | PASS |
| 5-5 | 5MHz-10MHz | 16QAM-16QAM   | 20528-20600 | 25RB#0-50RB#0 | 13.81  | 14.64 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20428-20500 | 25RB#0-50RB#0 | 13.847 | 14.73 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20478-20550 | 25RB#0-50RB#0 | 13.815 | 14.70 | PASS |
| 5-5 | 5MHz-10MHz | 64QAM-64QAM   | 20528-20600 | 25RB#0-50RB#0 | 13.808 | 14.61 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20428-20500 | 25RB#0-50RB#0 | 13.832 | 14.70 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20478-20550 | 25RB#0-50RB#0 | 13.813 | 14.73 | PASS |
| 5-5 | 5MHz-10MHz | 256QAM-256QAM | 20528-20600 | 25RB#0-50RB#0 | 13.781 | 14.64 | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20425-20464 | 25RB#0-15RB#0 | 7.468  | 8.03  | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20510-20549 | 25RB#0-15RB#0 | 7.473  | 8.03  | PASS |
| 5-5 | 5MHz-3MHz  | QPSK-QPSK     | 20595-20634 | 25RB#0-15RB#0 | 7.468  | 8.00  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20425-20464 | 25RB#0-15RB#0 | 7.499  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20510-20549 | 25RB#0-15RB#0 | 7.495  | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 16QAM-16QAM   | 20595-20634 | 25RB#0-15RB#0 | 7.476  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20425-20464 | 25RB#0-15RB#0 | 7.493  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20510-20549 | 25RB#0-15RB#0 | 7.48   | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 64QAM-64QAM   | 20595-20634 | 25RB#0-15RB#0 | 7.481  | 8.02  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20425-20464 | 25RB#0-15RB#0 | 7.486  | 8.05  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20510-20549 | 25RB#0-15RB#0 | 7.478  | 8.06  | PASS |
| 5-5 | 5MHz-3MHz  | 256QAM-256QAM | 20595-20634 | 25RB#0-15RB#0 | 7.48   | 8.05  | PASS |



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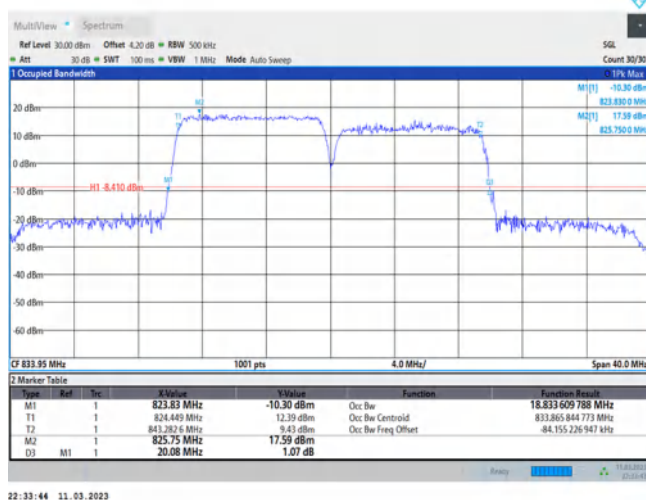
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### Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



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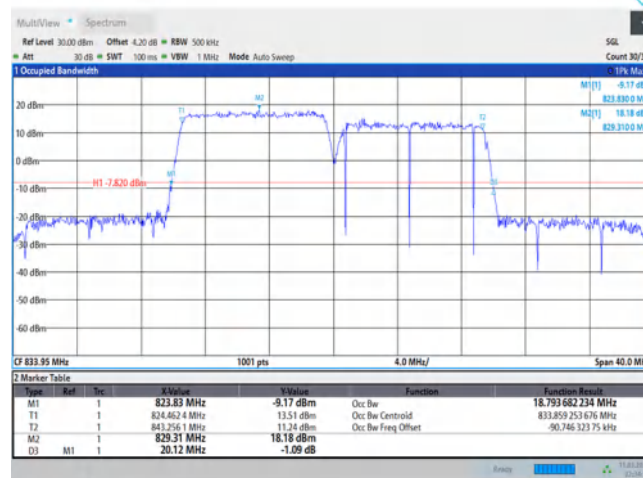
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### 5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



22:34:16 11.03.2023



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### 5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



22:38:29 11.03.2023



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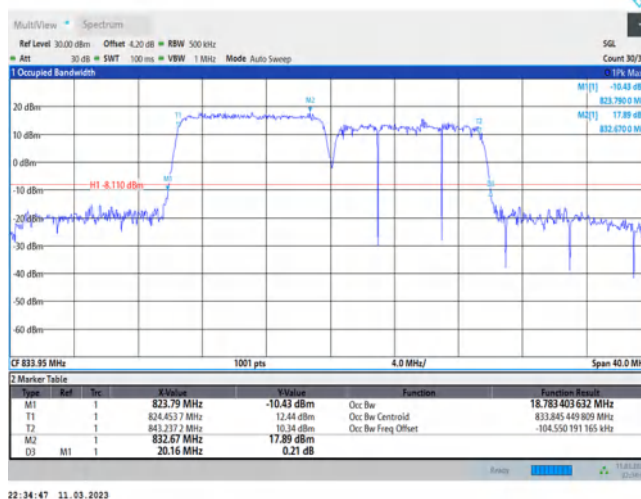
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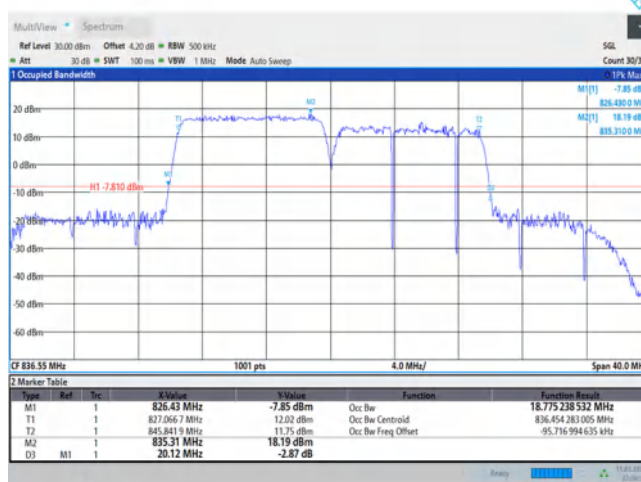
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22:36:54 11.03.2023



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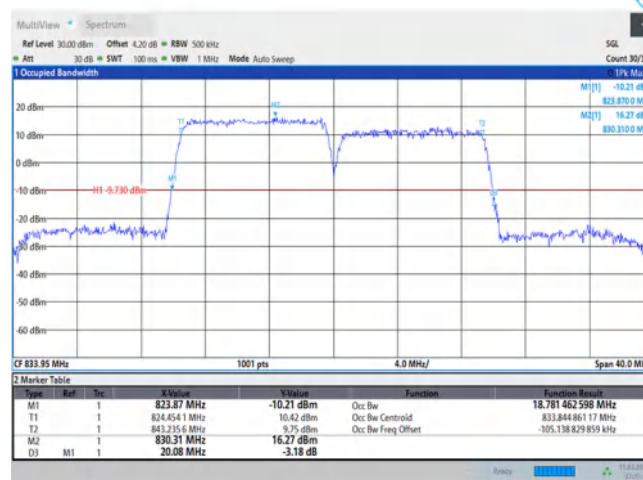
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### 5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



22:39:00 11.03.2023

### 5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



22:38:19 11.03.2023



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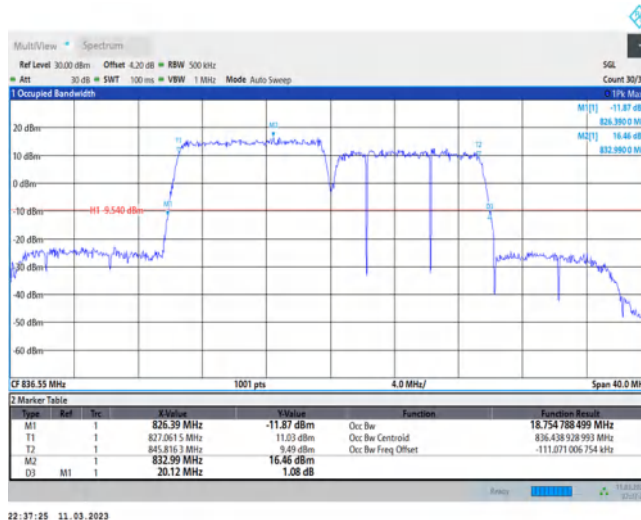
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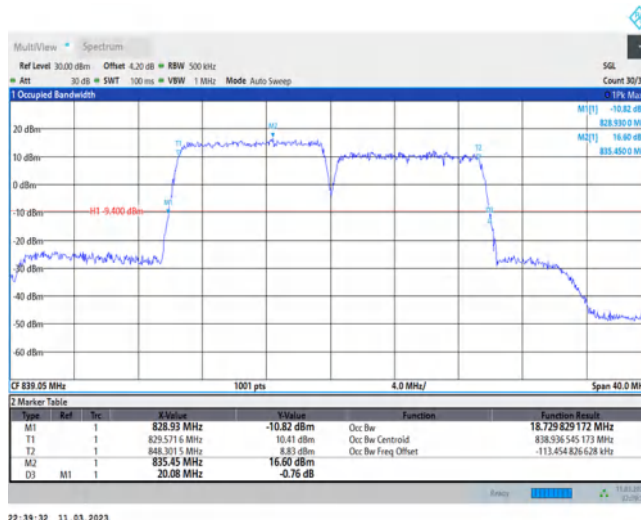
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### 5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



22:37:25 11.03.2023

### 5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#0



22:39:32 11.03.2023



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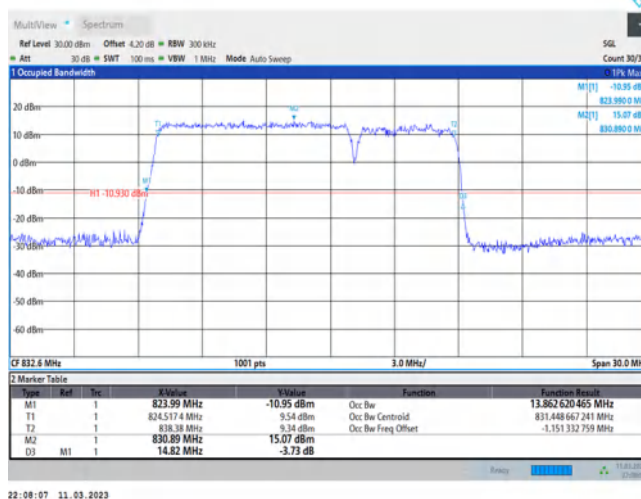
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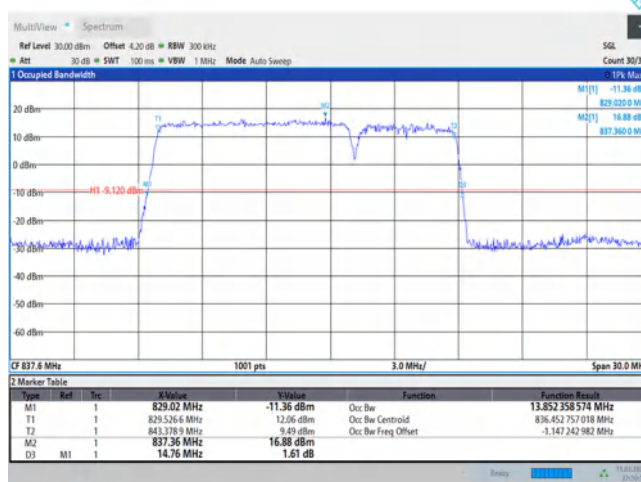
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### 5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



22:08:07 11.03.2023

### 5-5-10MHz-5MHz-QPSK-QPSK-20500-20572-50RB#0-25RB#0



22:10:13 11.03.2023



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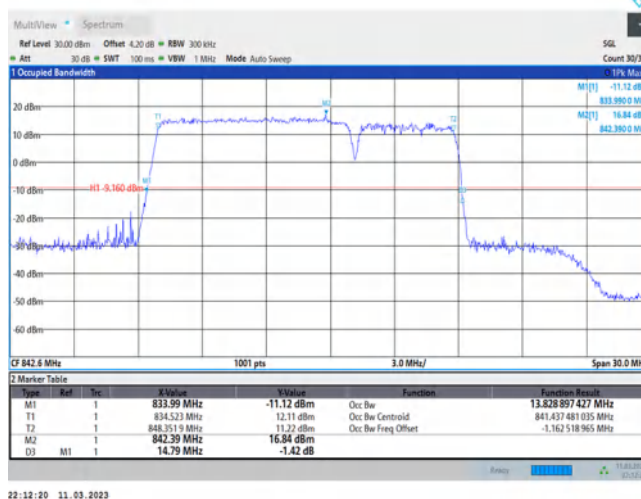
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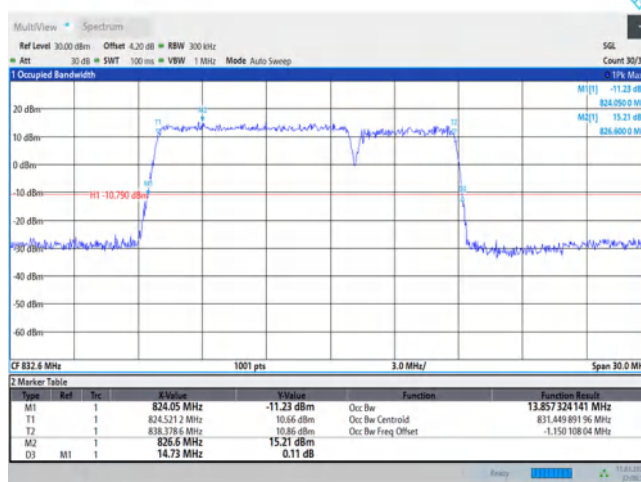
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### 5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



22:12:20 11.03.2023

### 5-5-10MHz-5MHz-16QAM-16QAM-20450-20522-50RB#0-25RB#0



22:08:38 11.03.2023



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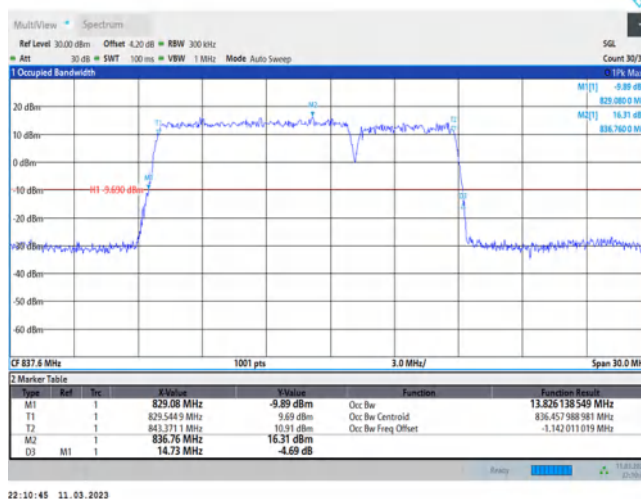
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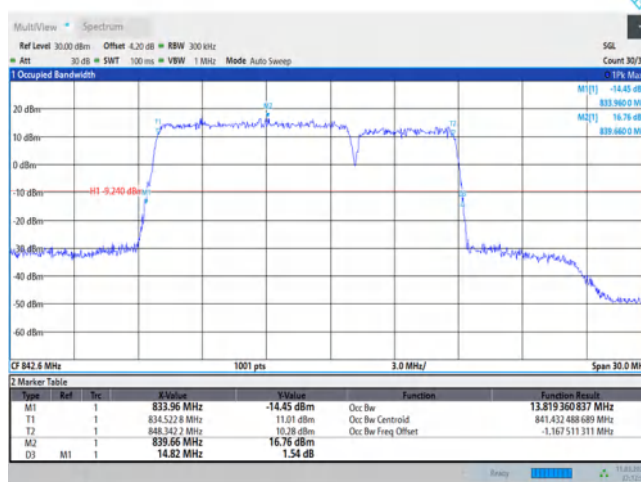
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### 5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



22:10:45 11.03.2023

### 5-5-10MHz-5MHz-16QAM-16QAM-20550-20622-50RB#0-25RB#0



22:12:51 11.03.2023



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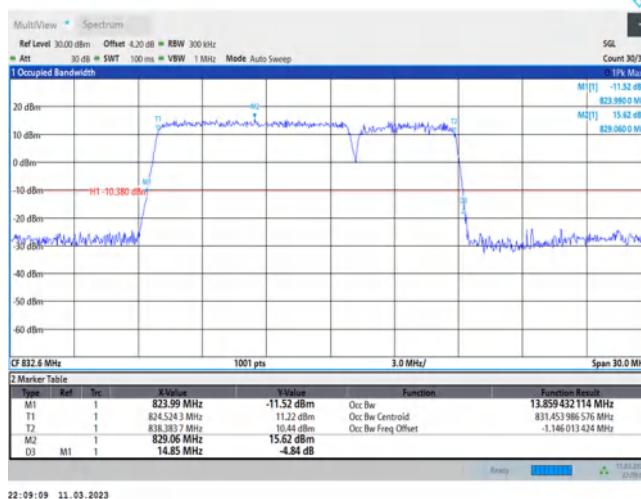
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### 5-5-10MHz-5MHz-64QAM-64QAM-20450-20522-50RB#0-25RB#0



22:09:09 11.03.2023

### 5-5-10MHz-5MHz-64QAM-64QAM-20500-20572-50RB#0-25RB#0



22:11:16 11.03.2023



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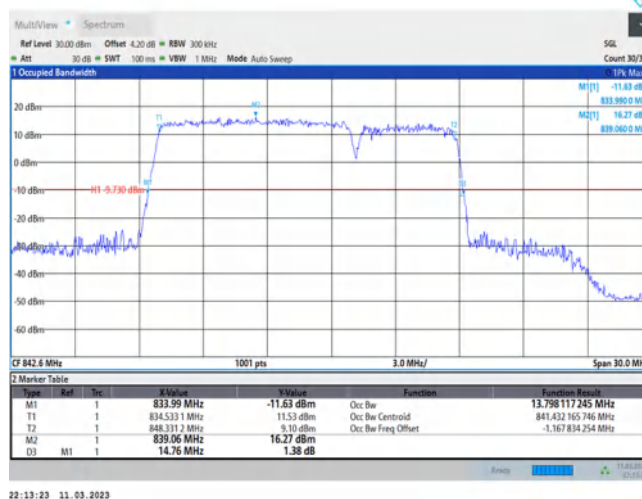
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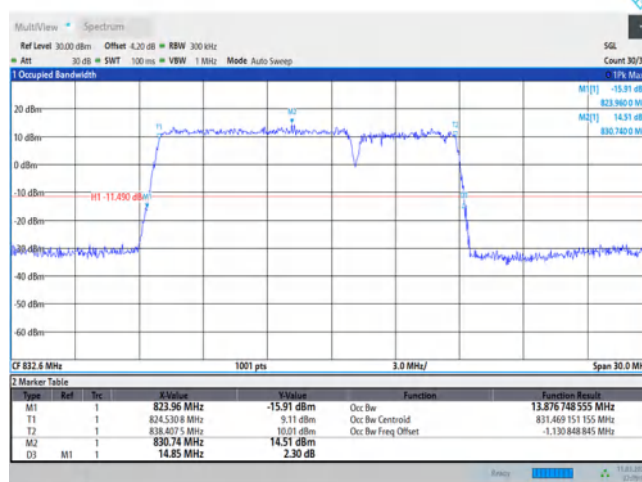
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22:13:23 11.03.2023

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22:09:41 11.03.2023



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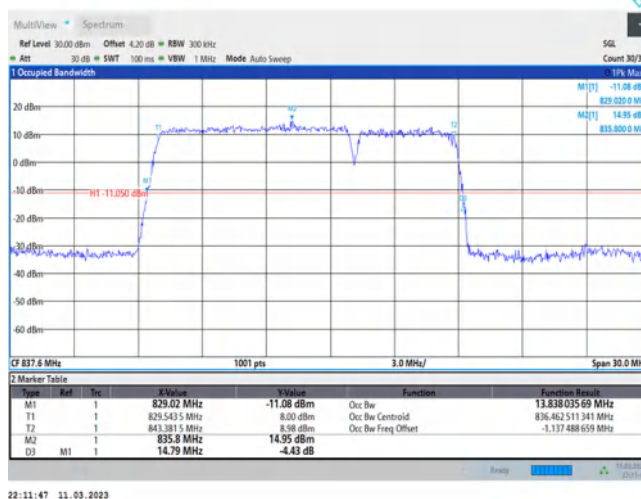
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22:11:47 11.03.2023

### 5-5-10MHz-5MHz-256QAM-256QAM-20550-20622-50RB#0-25RB#0



22:13:54 11.03.2023



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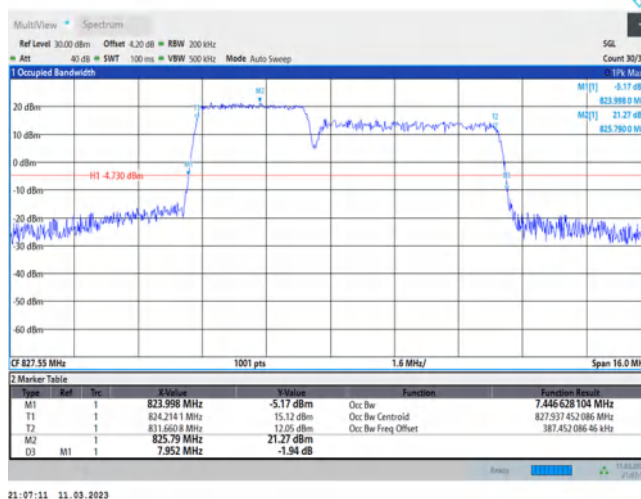
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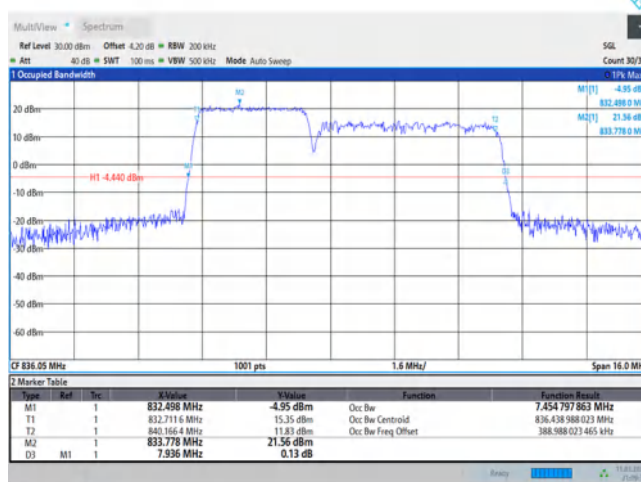
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### 5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



21:07:11 11.03.2023

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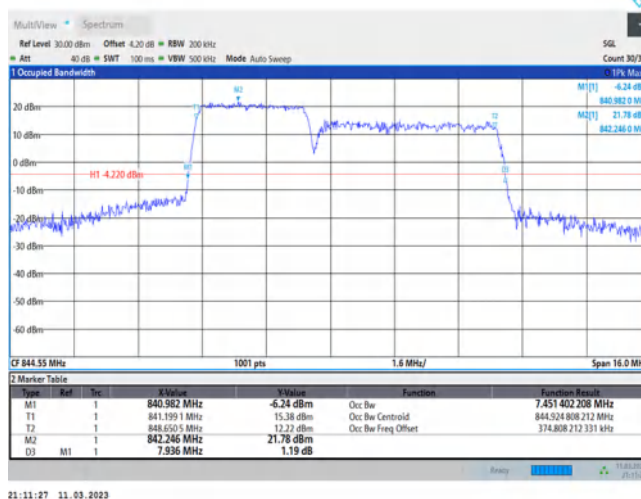
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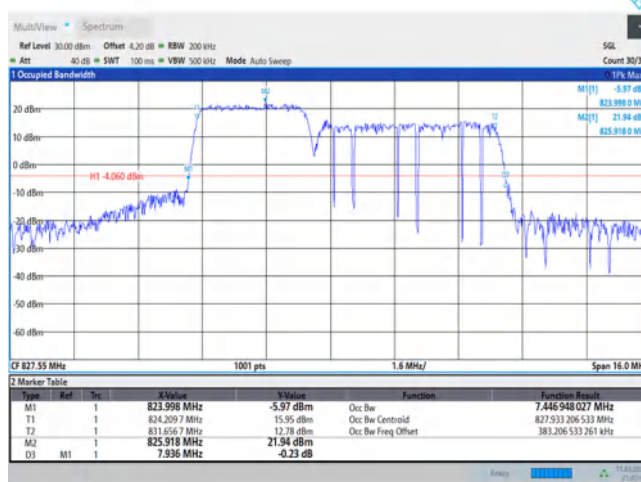
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### 5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0



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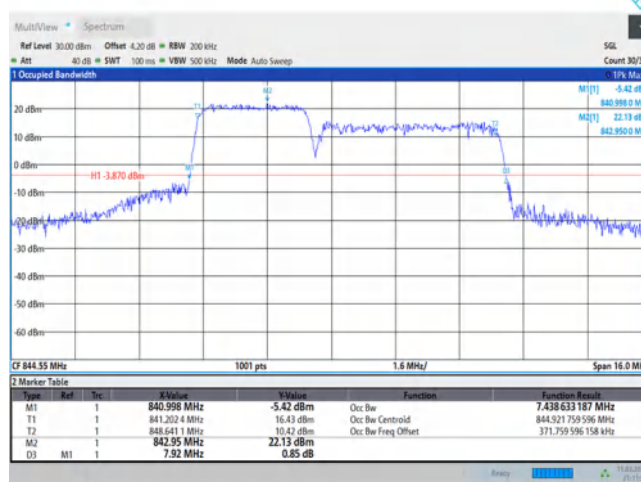
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### 5-5-3MHz-5MHz-16QAM-16QAM-20501-20540-15RB#0-25RB#0



21:09:51 11.03.2023

### 5-5-3MHz-5MHz-16QAM-16QAM-20586-20625-15RB#0-25RB#0



21:11:59 11.03.2023



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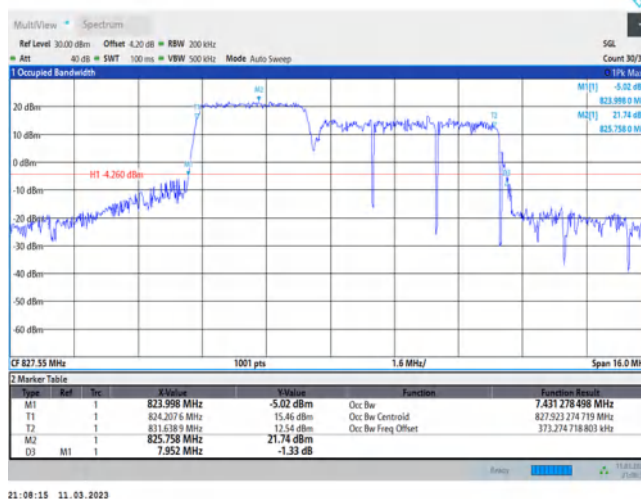
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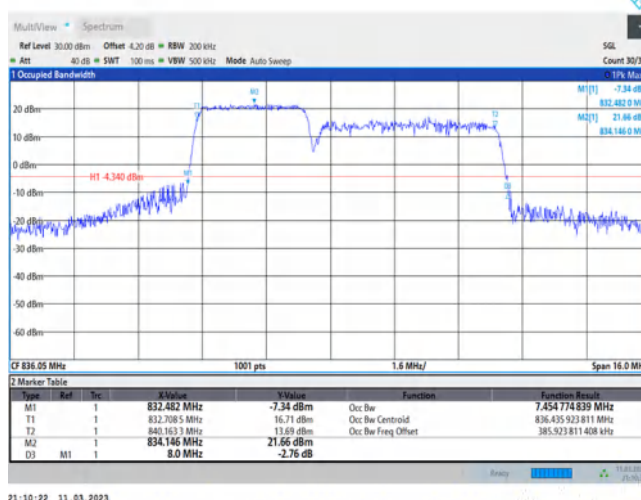
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### 5-5-3MHz-5MHz-64QAM-64QAM-20416-20455-15RB#0-25RB#0



21:08:15 11.03.2023

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21:10:22 11.03.2023



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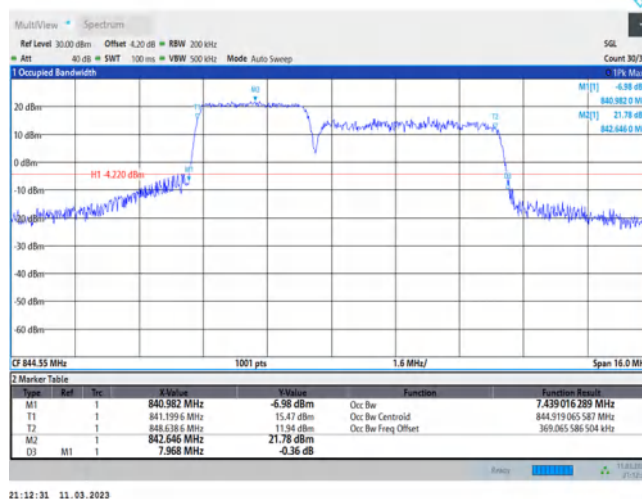
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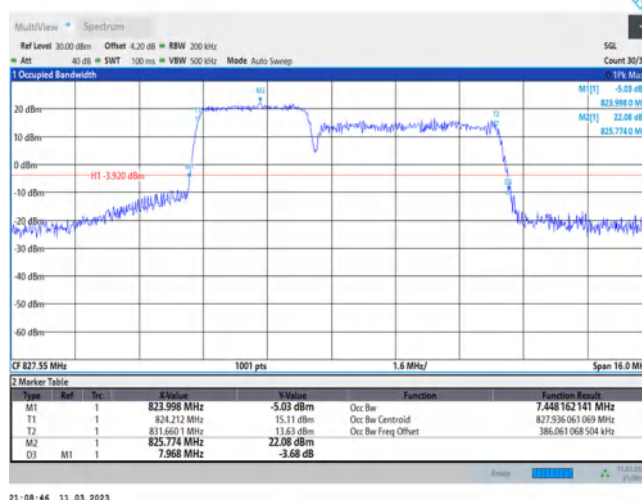
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### 5-5-3MHz-5MHz-64QAM-64QAM-20586-20625-15RB#0-25RB#0



### 5-5-3MHz-5MHz-256QAM-256QAM-20416-20455-15RB#0-25RB#0



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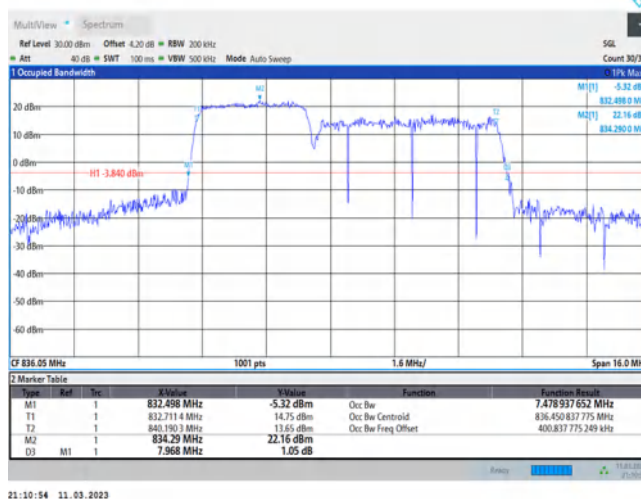
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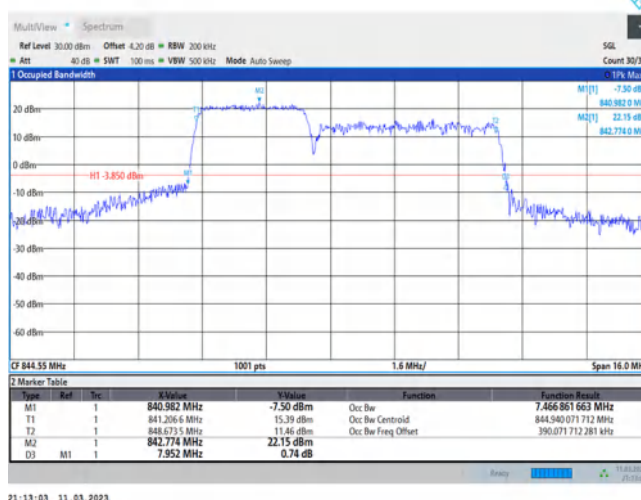
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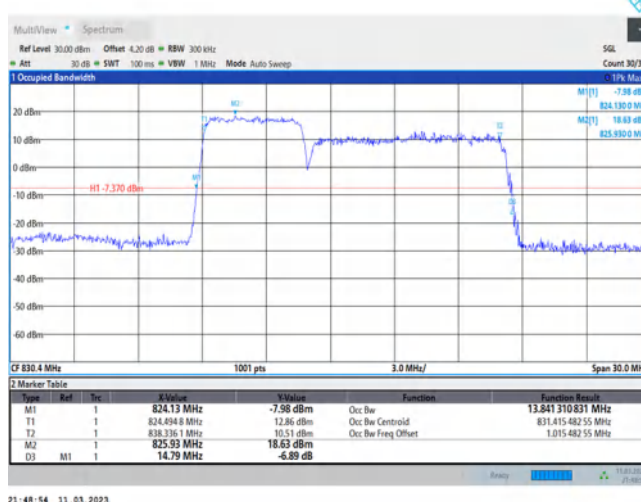
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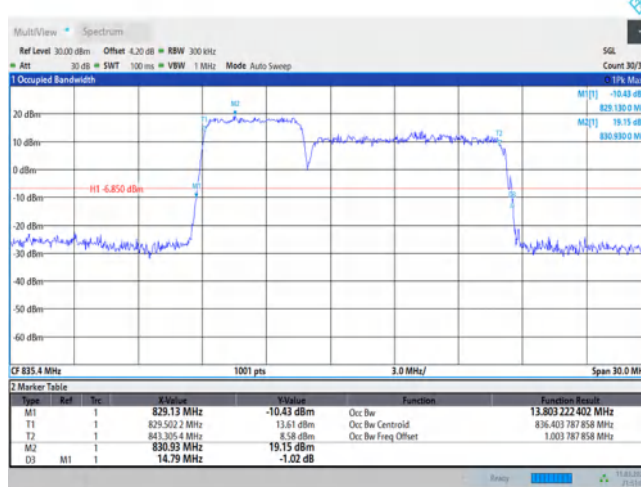
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### 5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



21:48:54 11.03.2023

### 5-5-5MHz-10MHz-QPSK-QPSK-20478-20550-25RB#0-50RB#0



21:51:01 11.03.2023



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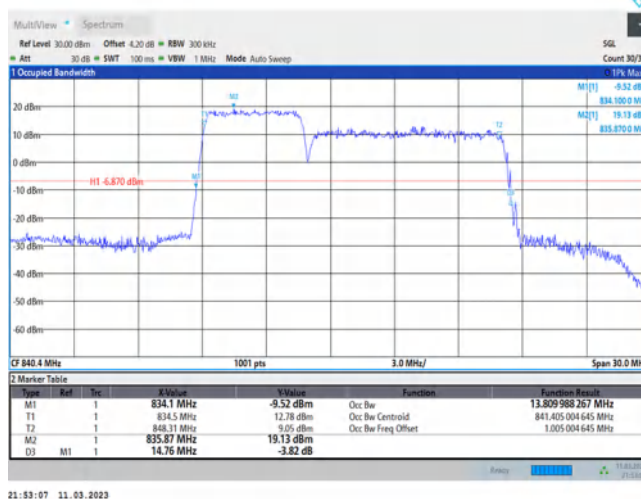
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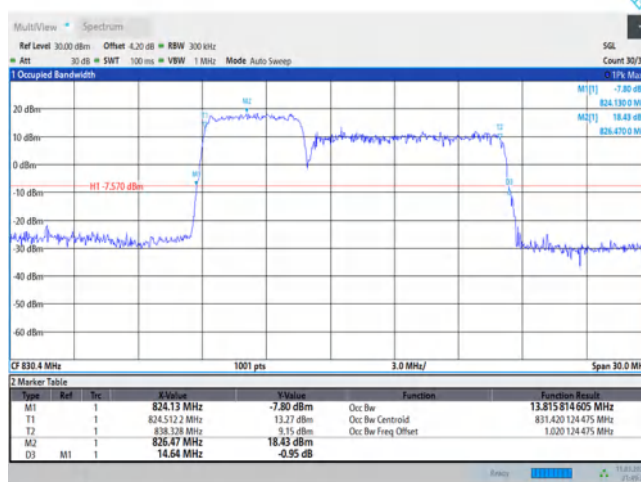
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### 5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



21:53:07 11.03.2023

### 5-5-5MHz-10MHz-16QAM-16QAM-20428-20500-25RB#0-50RB#0



21:49:25 11.03.2023



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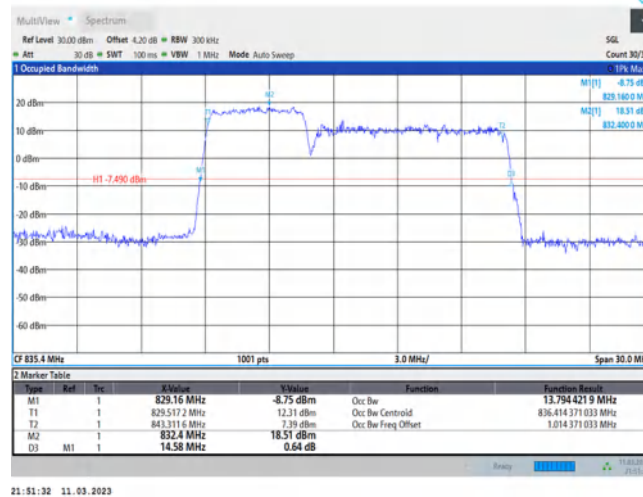
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### 5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



21:51:32 11.03.2023

### 5-5-5MHz-10MHz-16QAM-16QAM-20528-20600-25RB#0-50RB#0



21:53:39 11.03.2023



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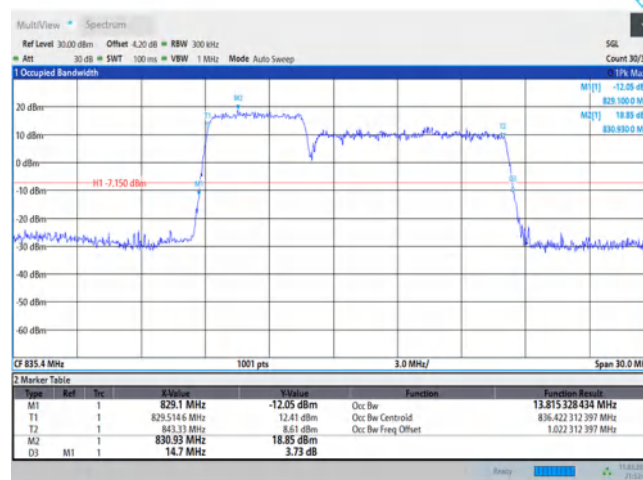
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### 5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



21:49:57 11.03.2023

### 5-5-5MHz-10MHz-64QAM-64QAM-20478-20550-25RB#0-50RB#0



21:52:04 11.03.2023



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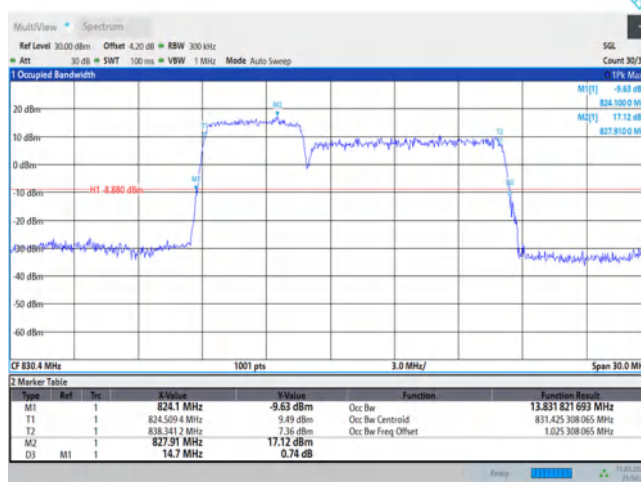
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21:54:10 11.03.2023

### 5-5-5MHz-10MHz-256QAM-256QAM-20428-20500-25RB#0-50RB#0



21:50:20 11.03.2023



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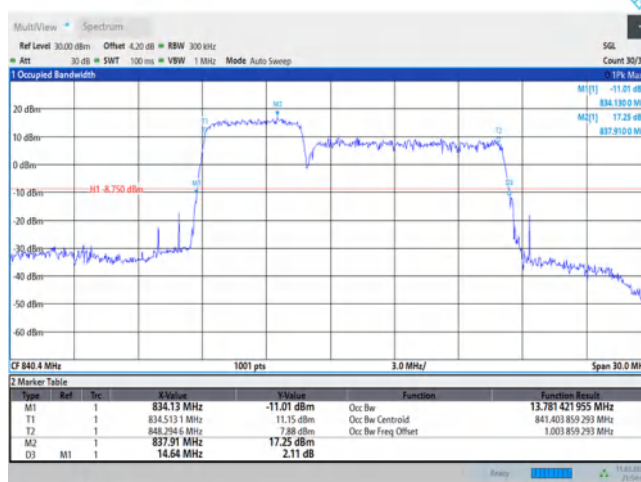
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21:52:35 11.03.2023

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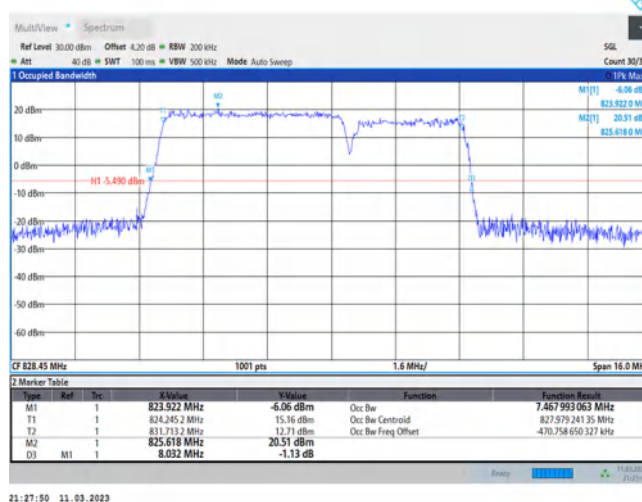
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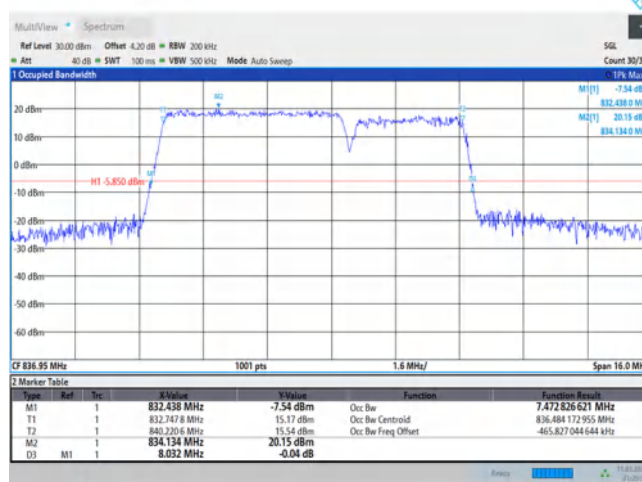
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21:27:50 11.03.2023

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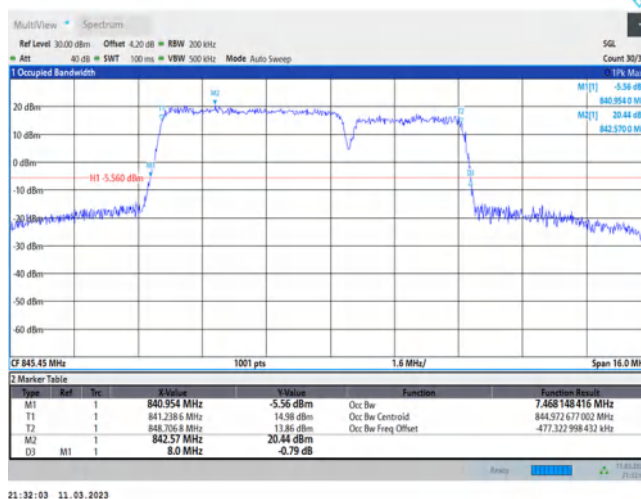
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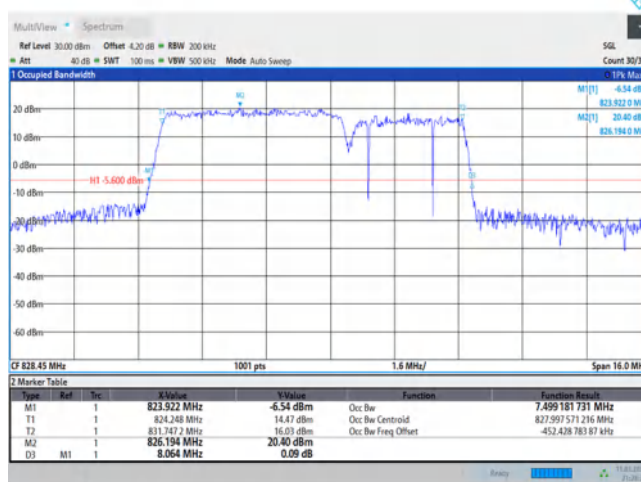
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### 5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



21:32:03 11.03.2023

### 5-5-5MHz-3MHz-16QAM-16QAM-20425-20464-25RB#0-15RB#0



21:28:21 11.03.2023



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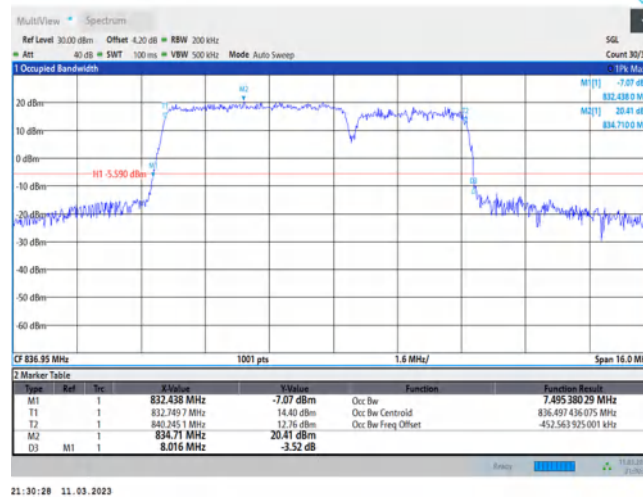
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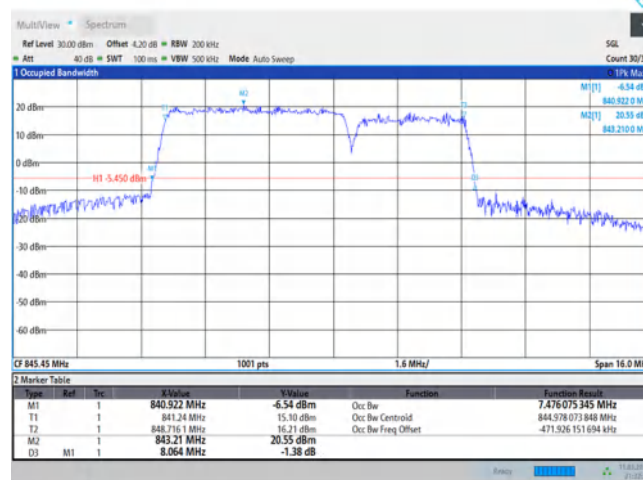
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21:30:28 11.03.2023

### 5-5-5MHz-3MHz-16QAM-16QAM-20595-20634-25RB#0-15RB#0



21:32:34 11.03.2023



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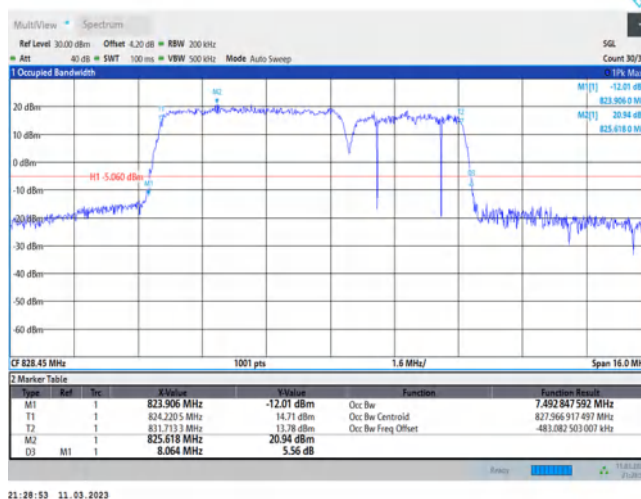
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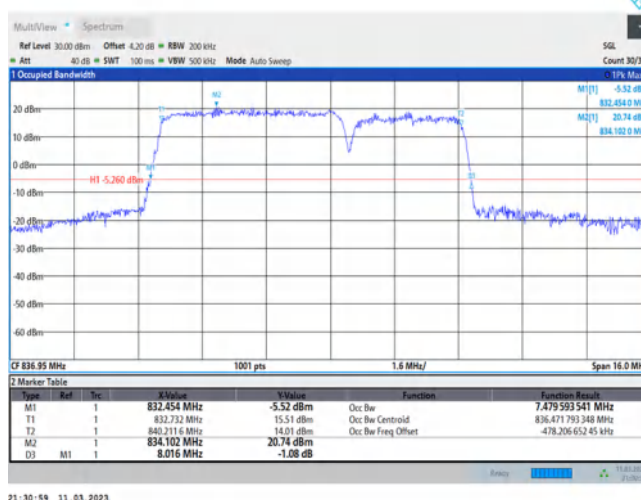
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### 5-5MHz-3MHz-64QAM-64QAM-20425-20464-25RB#0-15RB#0



21:28:53 11.03.2023

### 5-5MHz-3MHz-64QAM-64QAM-20510-20549-25RB#0-15RB#0



21:30:59 11.03.2023



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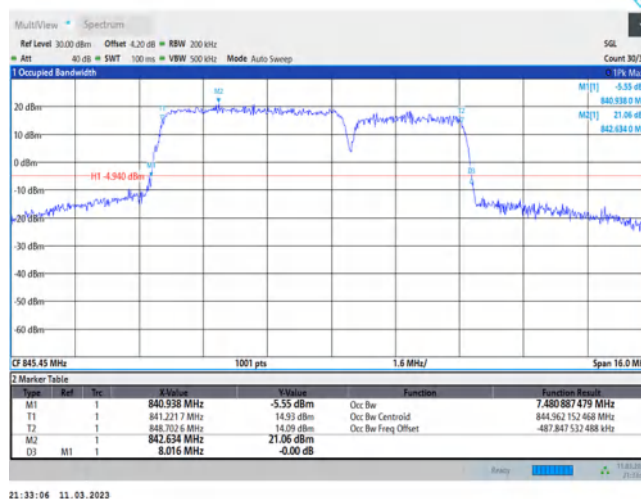
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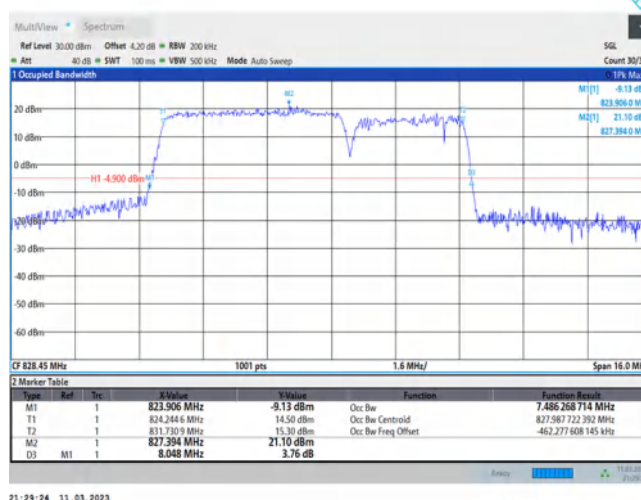
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### 5-5-5MHz-3MHz-64QAM-64QAM-20595-20634-25RB#0-15RB#0



21:33:06 11.03.2023

### 5-5-5MHz-3MHz-256QAM-256QAM-20425-20464-25RB#0-15RB#0



21:29:24 11.03.2023



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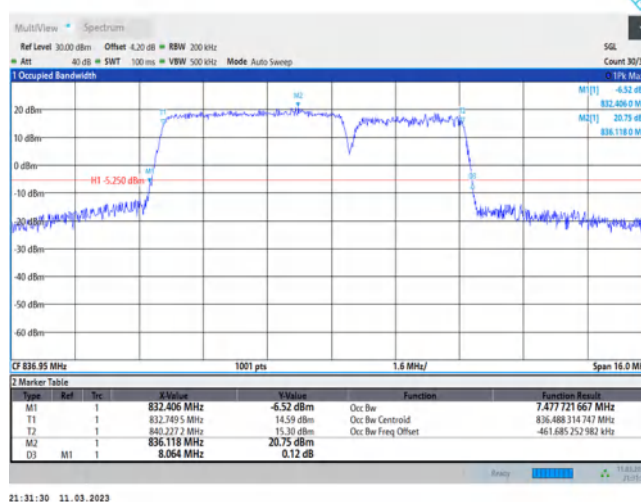
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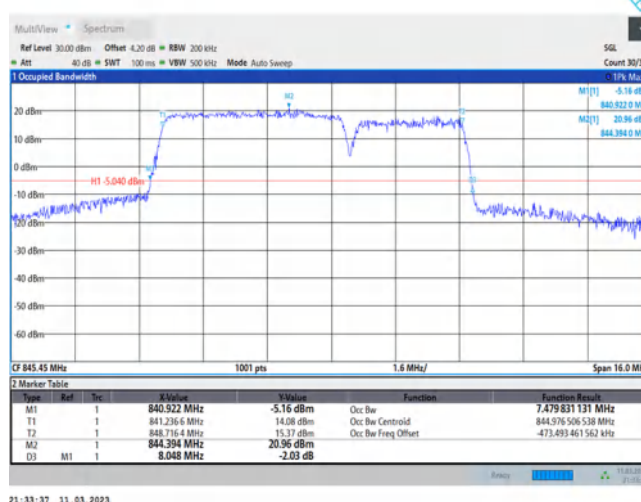
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### 5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



### 5-5-5MHz-3MHz-256QAM-256QAM-20595-20634-25RB#0-15RB#0



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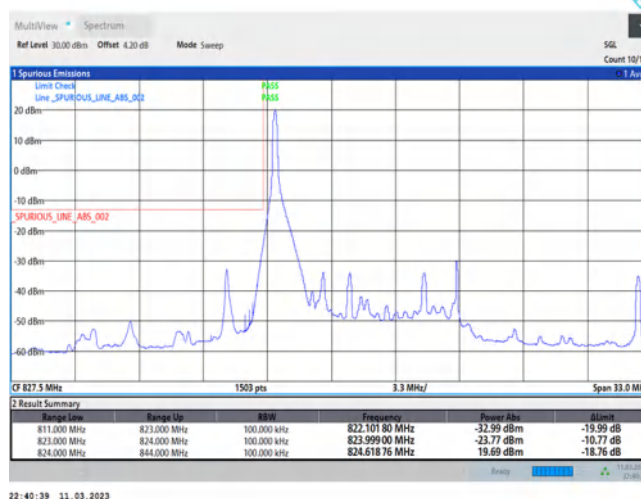
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## Band Edge

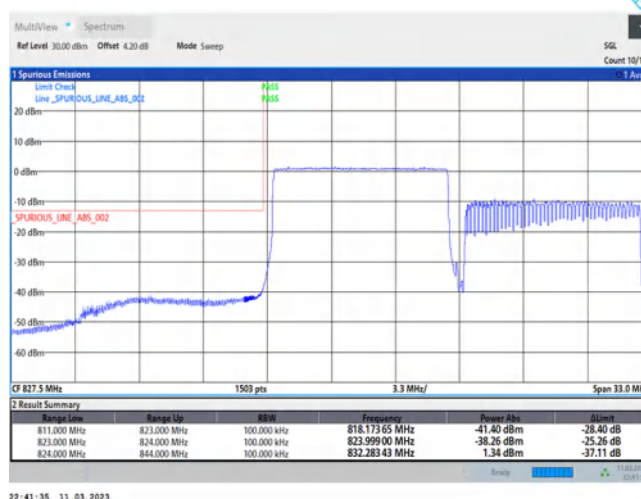
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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0



22:40:39 11.03.2023

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



22:41:35 11.03.2023



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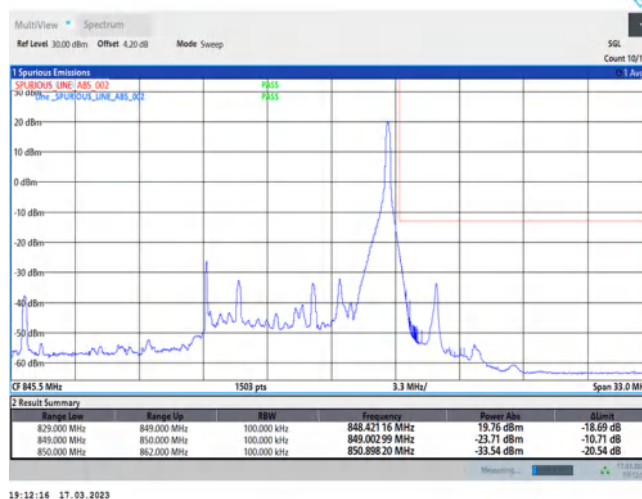
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



19:12:16 17.03.2023

### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



19:18:27 17.03.2023



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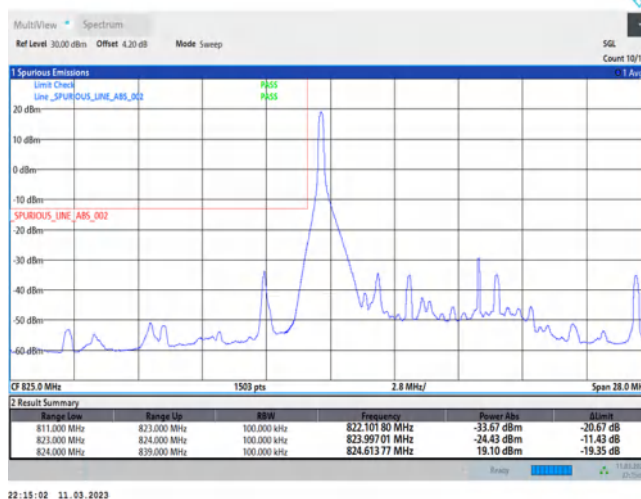
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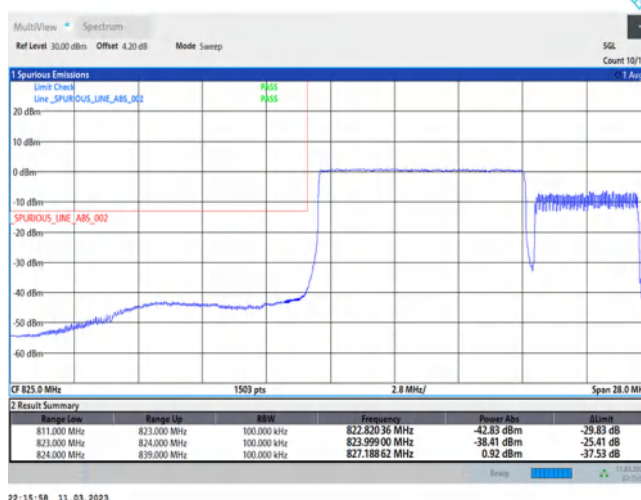
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### 5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



22:15:02 11.03.2023

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22:15:58 11.03.2023



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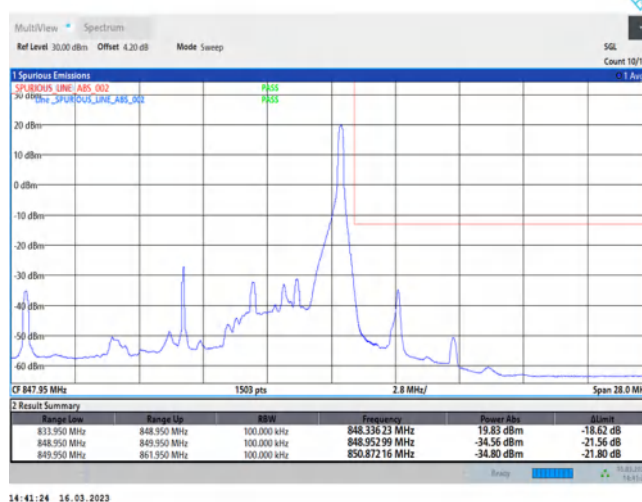
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### 5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



14:41:24 16.03.2023

### 5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



14:42:20 16.03.2023



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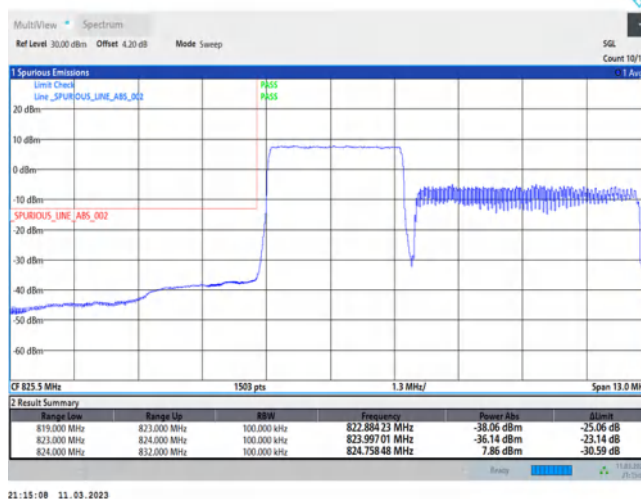
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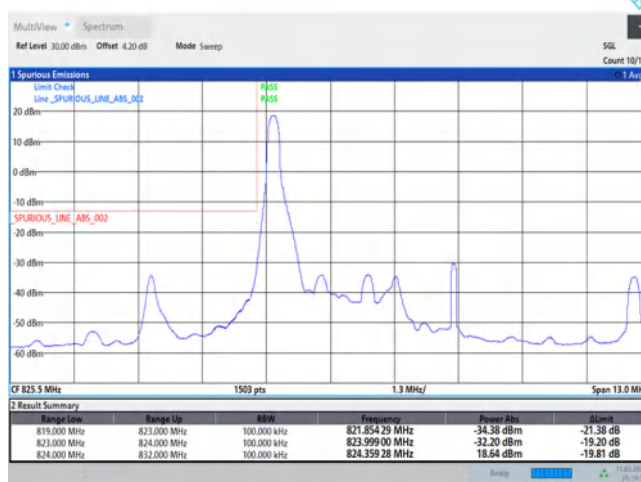
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21:15:08 11.03.2023

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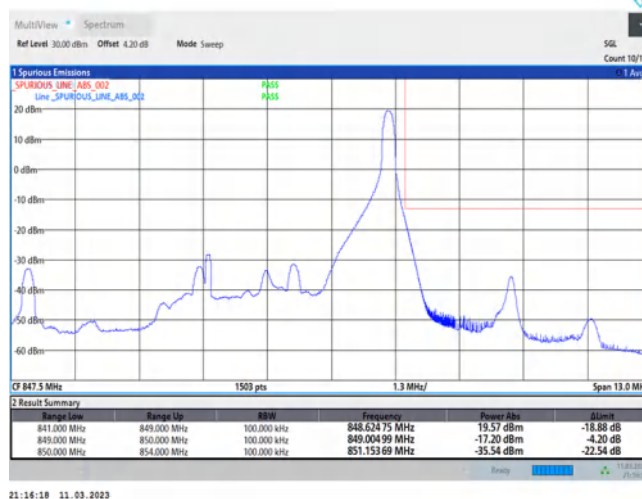
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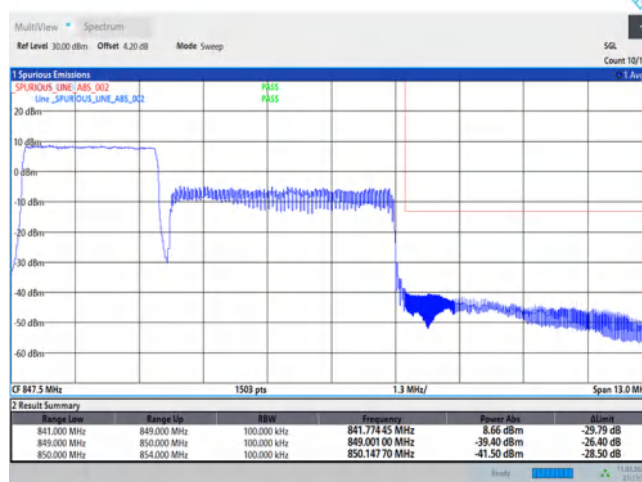
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### 5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



21:16:18 11.03.2023

### 5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0



21:17:14 11.03.2023



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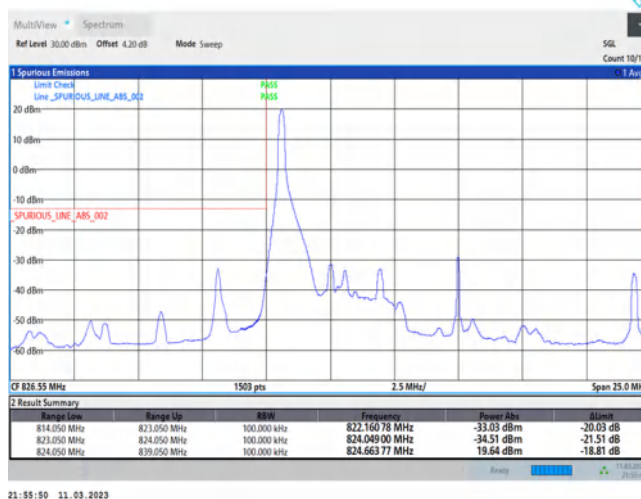
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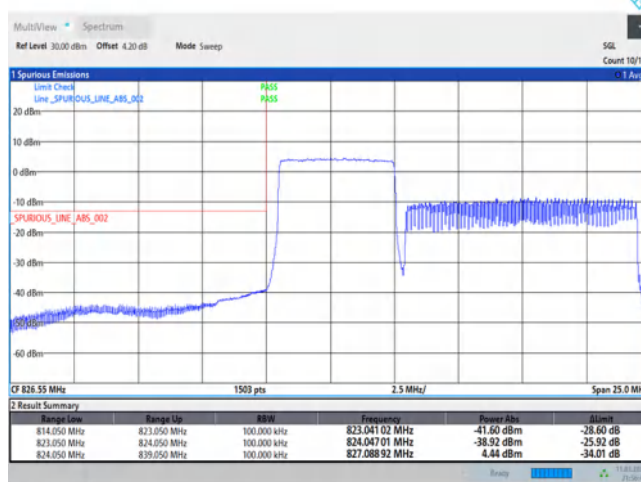
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### 5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



21:55:50 11.03.2023

### 5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



21:56:45 11.03.2023



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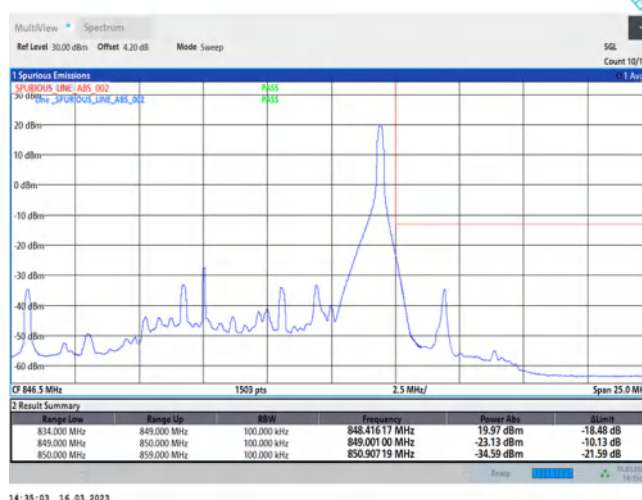
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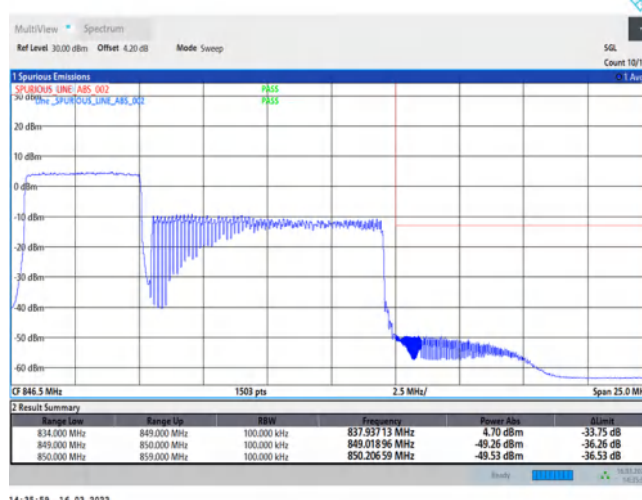
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### 5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



14:35:03 16.03.2023

### 5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



14:35:59 16.03.2023



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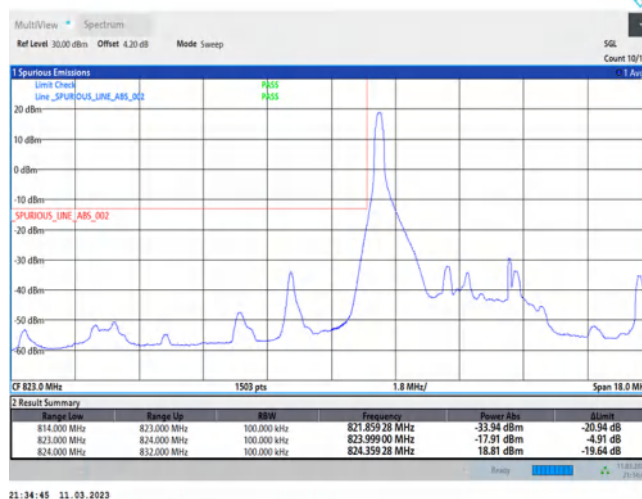
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### 5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



21:34:45 11.03.2023

### 5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



21:35:40 11.03.2023



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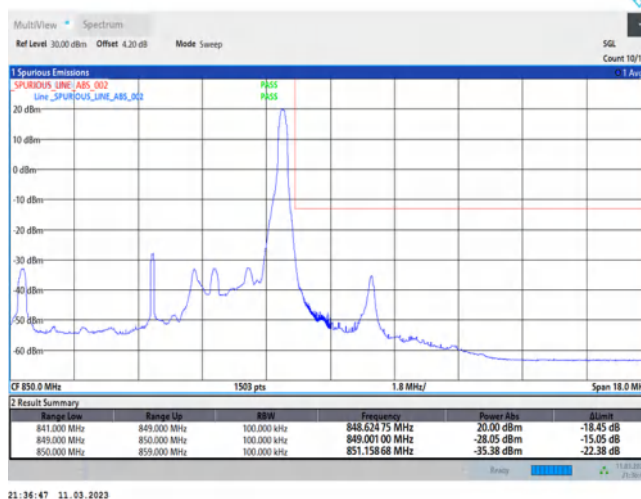
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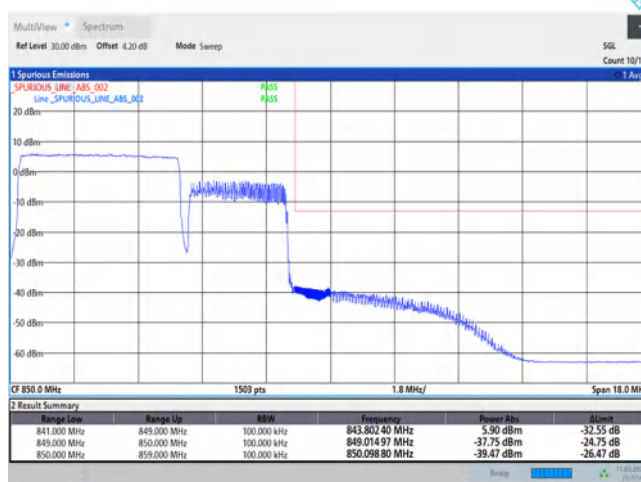
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### 5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



21:36:47 11.03.2023

### 5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



21:37:43 11.03.2023



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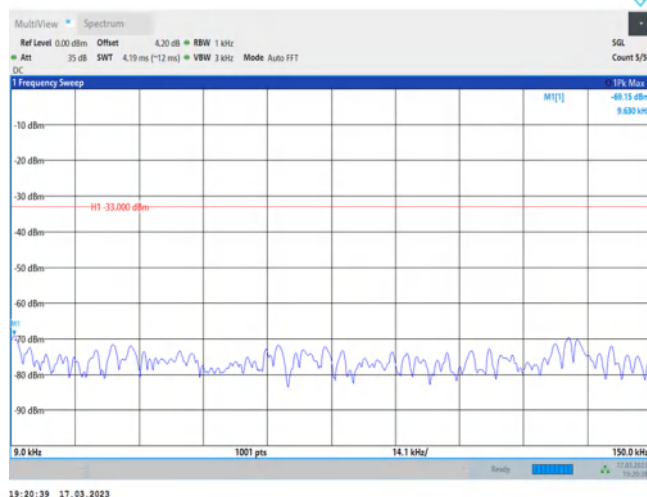
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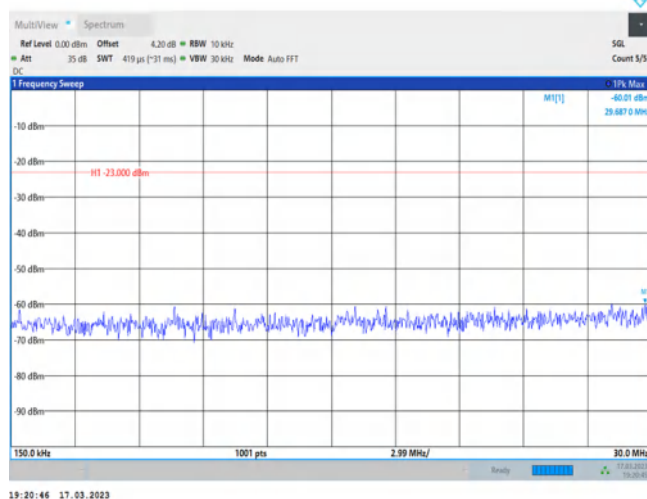
## Conducted Spurious Emission

### Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.15~30MHz



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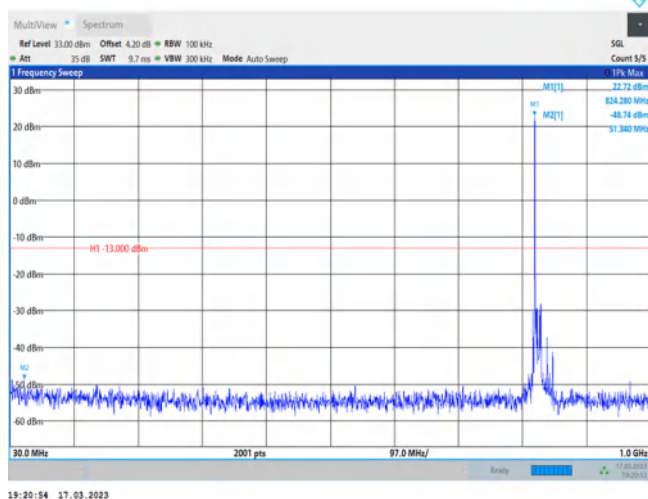
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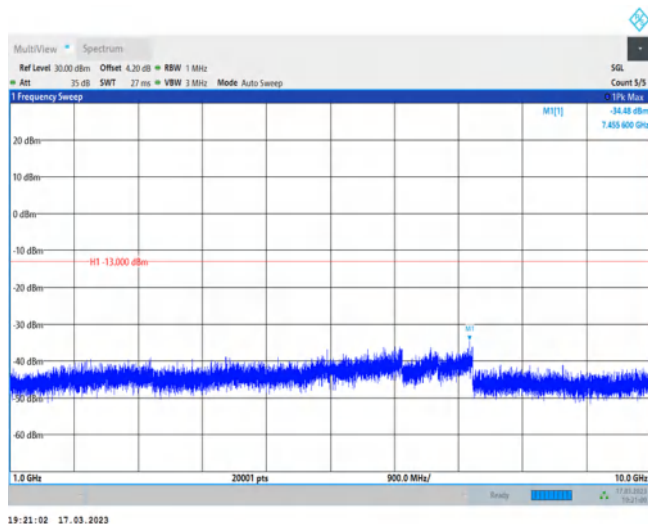
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### 5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



### 5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-1000~10000MHz



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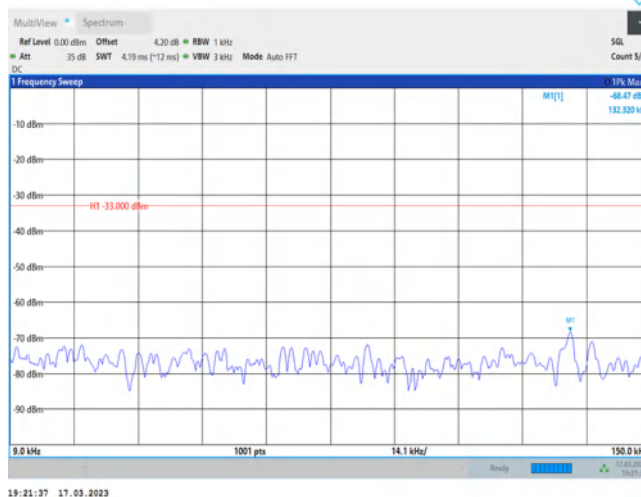
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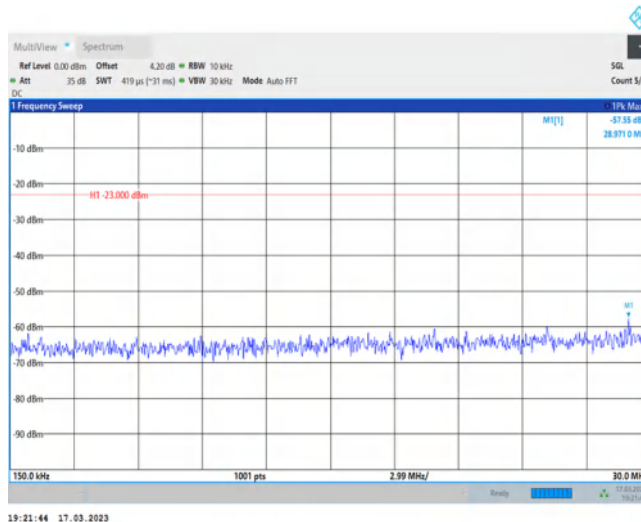
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### 5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



### 5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz



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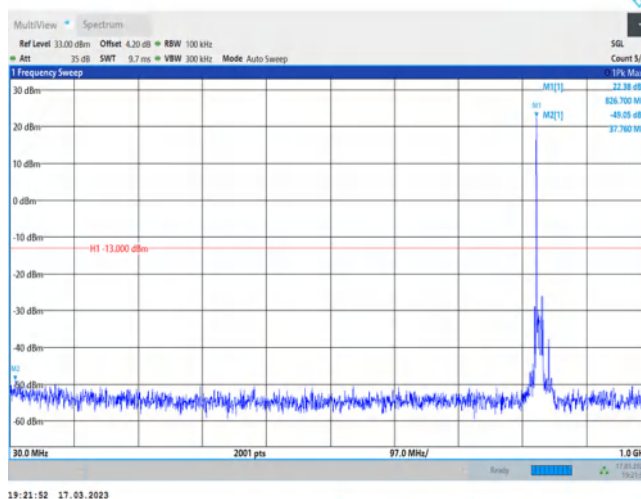
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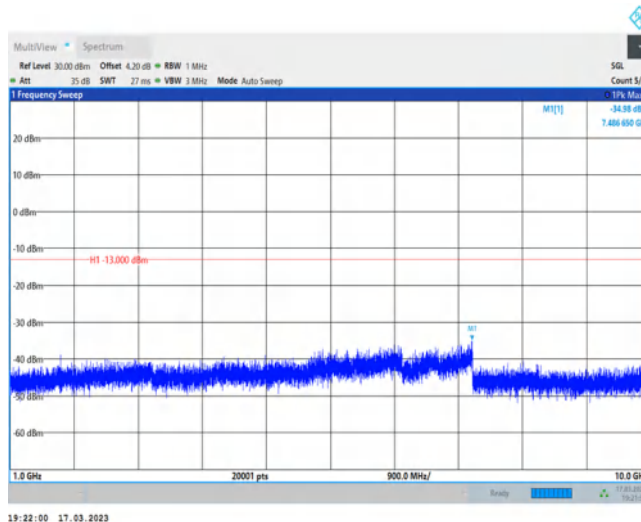
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### 5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



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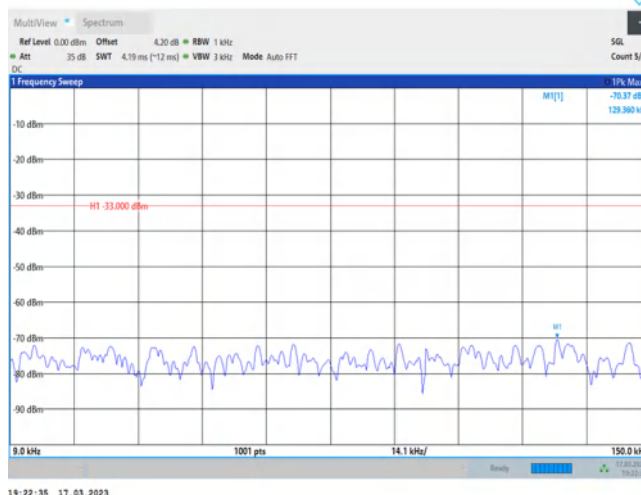
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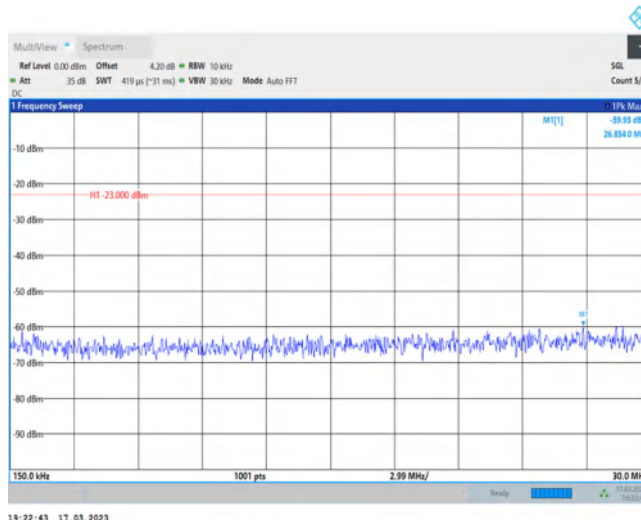
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



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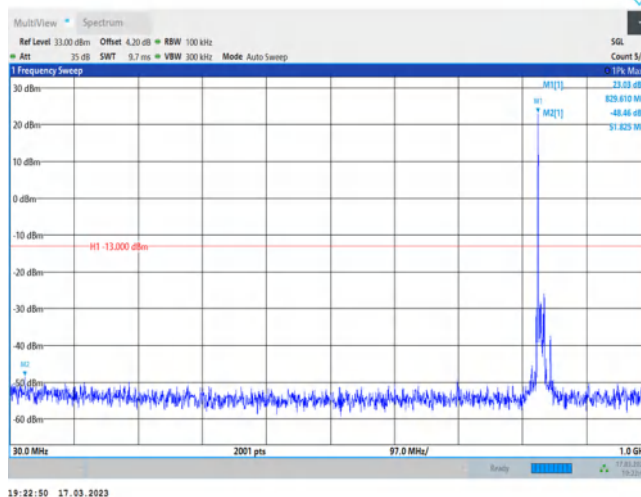
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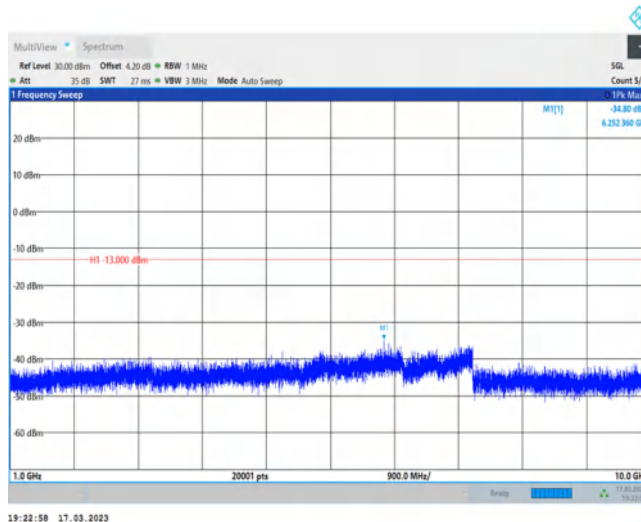
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### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



### 5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band5B\_ TM1

Test Channel = Low

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1649.1429          | 45.73             | -48.22         | 25.37    | -72.38         | -13.00         | 59.38          | 288            | 164          | Horizontal |
| 2               | 2473.7143          | 46.80             | -47.32         | 27.68    | -68.09         | -13.00         | 55.09          | 169            | 98           | Horizontal |
| 3               | 3298.3600          | 42.46             | -46.68         | 29.56    | -69.92         | -13.00         | 56.92          | 253            | 203          | Horizontal |
| 4               | 4122.9500          | 41.49             | -45.91         | 30.99    | -68.70         | -13.00         | 55.70          | 164            | 5            | Horizontal |
| 5               | 4947.5400          | 42.16             | -45.69         | 32.73    | -66.06         | -13.00         | 53.06          | 221            | 190          | Horizontal |
| 6               | 5772.1000          | 40.15             | -44.64         | 33.65    | -66.10         | -13.00         | 53.10          | 175            | 111          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1648.1800          | 44.97             | -48.22         | 25.37    | -73.14         | -13.00         | 60.14          | 244            | 146          | Vertical |
| 2               | 2473.7143          | 49.50             | -47.32         | 27.68    | -65.39         | -13.00         | 52.39          | 176            | 146          | Vertical |
| 3               | 3298.3600          | 43.16             | -46.68         | 29.56    | -69.22         | -13.00         | 56.22          | 296            | 159          | Vertical |
| 4               | 4122.9500          | 41.35             | -45.91         | 30.99    | -68.84         | -13.00         | 55.84          | 135            | 360          | Vertical |
| 5               | 4947.5400          | 41.85             | -45.69         | 32.73    | -66.37         | -13.00         | 53.37          | 248            | 252          | Vertical |
| 6               | 5772.1000          | 40.27             | -44.64         | 33.65    | -65.98         | -13.00         | 52.98          | 162            | 302          | Vertical |



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**Test Band = LTE Band5B\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1654.3600       | 43.95          | -48.21      | 25.37    | -74.15      | -13.00      | 61.15       | 247         | 0         | Horizontal |
| 2               | 2481.5700       | 43.63          | -47.30      | 27.71    | -71.22      | -13.00      | 58.22       | 187         | 356       | Horizontal |
| 3               | 3308.7600       | 42.46          | -46.67      | 29.54    | -69.92      | -13.00      | 56.92       | 155         | 135       | Horizontal |
| 4               | 4135.9500       | 41.44          | -45.92      | 31.00    | -68.74      | -13.00      | 55.74       | 167         | 0         | Horizontal |
| 5               | 4963.1400       | 41.00          | -45.73      | 32.78    | -67.21      | -13.00      | 54.21       | 218         | 162       | Horizontal |
| 6               | 5790.3300       | 40.17          | -44.65      | 33.72    | -66.03      | -13.00      | 53.03       | 199         | 227       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1654.3600       | 44.71          | -48.21      | 25.37    | -73.39      | -13.00      | 60.39       | 274         | 210       | Vertical |
| 2               | 2481.5700       | 47.48          | -47.30      | 27.71    | -67.37      | -13.00      | 54.37       | 184         | 66        | Vertical |
| 3               | 3308.7600       | 42.91          | -46.67      | 29.54    | -69.47      | -13.00      | 56.47       | 156         | 277       | Vertical |
| 4               | 4135.9500       | 41.61          | -45.92      | 31.00    | -68.57      | -13.00      | 55.57       | 163         | 359       | Vertical |
| 5               | 4963.1400       | 41.09          | -45.73      | 32.78    | -67.12      | -13.00      | 54.12       | 285         | 184       | Vertical |
| 6               | 5790.3300       | 39.92          | -44.65      | 33.72    | -66.28      | -13.00      | 53.28       | 181         | 330       | Vertical |



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**Test Band = LTE Band5B\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1749.3800       | 43.92          | -48.06      | 25.41    | -73.99      | -13.00      | 60.99       | 298         | 9         | Horizontal |
| 2               | 2624.0700       | 42.99          | -46.96      | 28.15    | -71.08      | -13.00      | 58.08       | 246         | 294       | Horizontal |
| 3               | 3498.7600       | 42.45          | -46.54      | 29.52    | -69.83      | -13.00      | 56.83       | 135         | 1         | Horizontal |
| 4               | 4373.4500       | 41.00          | -45.86      | 31.46    | -68.66      | -13.00      | 55.66       | 281         | 320       | Horizontal |
| 5               | 5248.1400       | 40.87          | -45.14      | 32.94    | -66.58      | -13.00      | 53.58       | 145         | 307       | Horizontal |
| 6               | 6122.8300       | 40.10          | -44.74      | 34.17    | -65.72      | -13.00      | 52.72       | 156         | 201       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1749.3800       | 43.54          | -48.06      | 25.41    | -74.37      | -13.00      | 61.37       | 244         | 360       | Vertical |
| 2               | 2624.0700       | 42.93          | -46.96      | 28.15    | -71.14      | -13.00      | 58.14       | 141         | 342       | Vertical |
| 3               | 3498.7600       | 42.80          | -46.54      | 29.52    | -69.48      | -13.00      | 56.48       | 185         | 317       | Vertical |
| 4               | 4373.4500       | 41.25          | -45.86      | 31.46    | -68.41      | -13.00      | 55.41       | 220         | 38        | Vertical |
| 5               | 5248.1400       | 40.79          | -45.14      | 32.94    | -66.66      | -13.00      | 53.66       | 165         | 351       | Vertical |
| 6               | 6122.8300       | 39.53          | -44.74      | 34.17    | -66.29      | -13.00      | 53.29       | 238         | 290       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Voltage |                 |               |             |               |               |                  |                |                 |             |         |
|---------|-----------------|---------------|-------------|---------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth       | Modulation    | Channel     | RB Configure  | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 5-5     | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | VH            | NT               | 0.72           | 0.000866        | ±2.5        | PASS    |
| 5-5     | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | VL            | NT               | 0.73           | 0.000878        | ±2.5        | PASS    |
| 5-5     | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | VN            | NT               | 0.01           | 0.000012        | ±2.5        | PASS    |

| Temperature |                 |               |             |               |               |                  |                |                 |             |         |
|-------------|-----------------|---------------|-------------|---------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth       | Modulation    | Channel     | RB Configure  | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | -30              | 0.40           | 0.000481        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | -20              | 0.63           | 0.000758        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | -10              | 0.47           | 0.000565        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 0                | 0.66           | 0.000794        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 10               | 0.97           | 0.001166        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 20               | 0.65           | 0.000782        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 30               | 0.49           | 0.000589        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 40               | 0.04           | 0.000048        | ±2.5        | PASS    |
| 5-5         | 10MHz<br>-10MHz | QPSK<br>-QPSK | 20476-20575 | 50RB#0-50RB#0 | NV            | 50               | 0.53           | 0.000637        | ±2.5        | PASS    |

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