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# Appendix B.9

## LTE Band 17



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t (86-512) 62992980 sgs.china@sgs.com

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## Effective (Isotropic) Radiated Power Output Data

## Test Result

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| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 24.18       | 15.26    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 24.22       | 15.30    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 24.09       | 15.17    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 23.14       | 14.22    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 24.12       | 15.20    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 24.08       | 15.16    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 24.05       | 15.13    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 23.00       | 14.08    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 24.23       | 15.31    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 24.08       | 15.16    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 23.84       | 14.92    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 22.91       | 13.99    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 23.25       | 14.33    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 23.31       | 14.39    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 23.03       | 14.11    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 22.11       | 13.19    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.13       | 14.21    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 23.13       | 14.21    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 23.16       | 14.24    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 22.02       | 13.10    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 23.05       | 14.13    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 23.10       | 14.18    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 22.95       | 14.03    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 21.93       | 13.01    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#0            | 22.36       | 13.44    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#12           | 22.28       | 13.36    | 34.77      | PASS    |



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|        |       |        |       |        |       |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band17 | 5MHz  | 64QAM  | 23755 | 1RB#24 | 22.08 | 13.16 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23755 | 25RB#0 | 21.10 | 12.18 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#0  | 22.14 | 13.22 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#12 | 22.28 | 13.36 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#24 | 22.11 | 13.19 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 25RB#0 | 21.03 | 12.11 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#0  | 22.25 | 13.33 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#12 | 22.17 | 13.25 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#24 | 22.09 | 13.17 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 25RB#0 | 20.93 | 12.01 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#0  | 19.07 | 10.15 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#12 | 19.16 | 10.24 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#24 | 19.19 | 10.27 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 25RB#0 | 19.12 | 10.20 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#0  | 19.24 | 10.32 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#12 | 19.22 | 10.30 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#24 | 19.23 | 10.31 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 25RB#0 | 19.06 | 10.14 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#0  | 18.99 | 10.07 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#12 | 19.09 | 10.17 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#24 | 18.97 | 10.05 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 25RB#0 | 19.00 | 10.08 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#0  | 24.12 | 15.20 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#24 | 24.06 | 15.14 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#49 | 23.93 | 15.01 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 50RB#0 | 23.12 | 14.20 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#0  | 24.15 | 15.23 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#24 | 24.09 | 15.17 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#49 | 23.97 | 15.05 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 50RB#0 | 23.07 | 14.15 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 1RB#0  | 24.21 | 15.29 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 1RB#24 | 24.00 | 15.08 | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band17 | 10MHz | QPSK   | 23800 | 1RB#49 | 23.96 | 15.04 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 50RB#0 | 23.02 | 14.10 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#0  | 23.18 | 14.26 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#24 | 23.34 | 14.42 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#49 | 23.06 | 14.14 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 50RB#0 | 22.17 | 13.25 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#0  | 23.30 | 14.38 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#24 | 23.29 | 14.37 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#49 | 23.41 | 14.49 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 50RB#0 | 22.00 | 13.08 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#0  | 23.05 | 14.13 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#24 | 23.16 | 14.24 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#49 | 22.99 | 14.07 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 50RB#0 | 22.03 | 13.11 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#0  | 22.26 | 13.34 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#24 | 22.38 | 13.46 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#49 | 22.06 | 13.14 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 50RB#0 | 21.17 | 12.25 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#0  | 22.19 | 13.27 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#24 | 22.31 | 13.39 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#49 | 22.18 | 13.26 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 50RB#0 | 20.99 | 12.07 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#0  | 22.13 | 13.21 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#24 | 22.19 | 13.27 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#49 | 22.16 | 13.24 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 50RB#0 | 20.97 | 12.05 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#0  | 19.17 | 10.25 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#24 | 19.23 | 10.31 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#49 | 19.16 | 10.24 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 50RB#0 | 19.14 | 10.22 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 1RB#0  | 19.08 | 10.16 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 1RB#24 | 19.10 | 10.18 | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band17 | 10MHz | 256QAM | 23790 | 1RB#49 | 18.97 | 10.05 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 50RB#0 | 18.99 | 10.07 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#0  | 19.16 | 10.24 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#24 | 19.17 | 10.25 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#49 | 18.96 | 10.04 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 50RB#0 | 19.04 | 10.12 | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 5.12       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 6.08       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 6.12       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 6.04       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 6.10       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 6.06       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23780   | 50RB#0           | 6.62       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 6.62       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23800   | 50RB#0           | 6.64       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23780   | 50RB#0           | 6.94       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23790   | 50RB#0           | 6.98       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23800   | 50RB#0           | 6.94       | 13        | PASS    |



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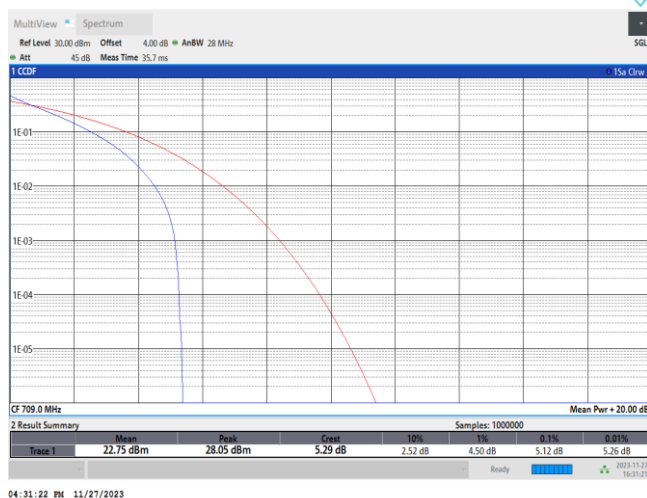
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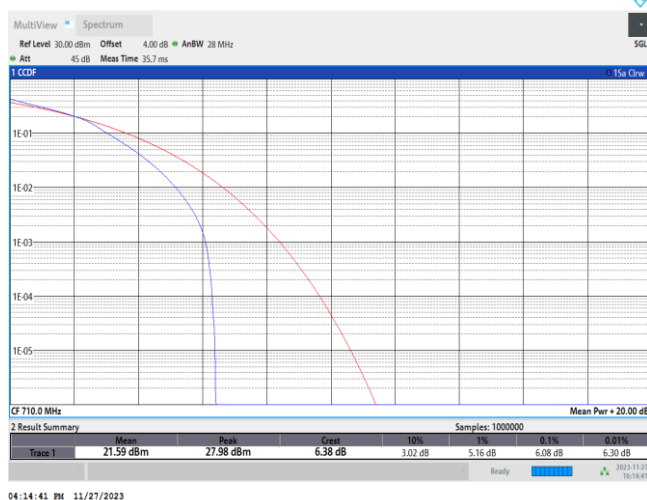
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## Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0



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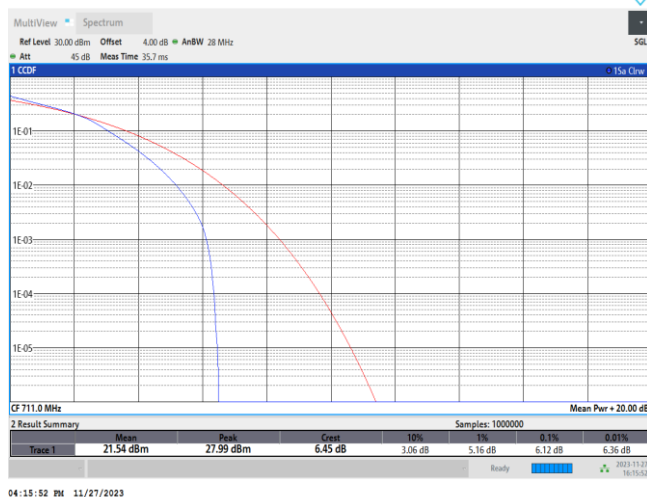
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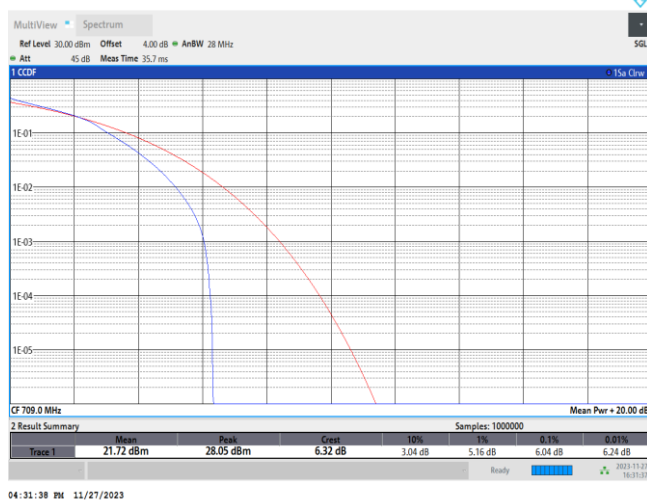
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## Band17-10MHz-QPSK-23800-50RB#0



## Band17-10MHz-16QAM-23780-50RB#0



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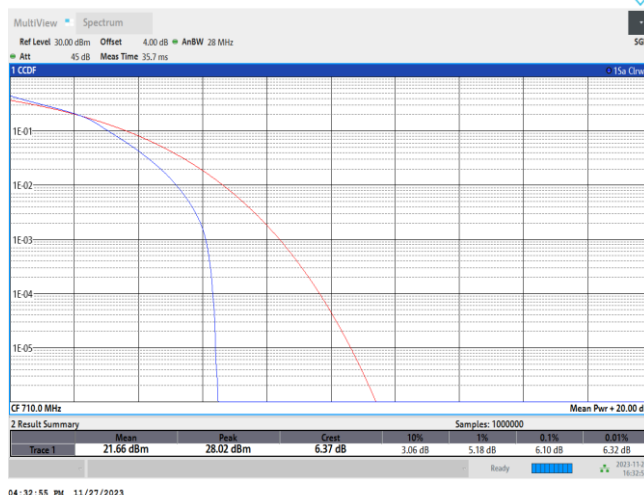
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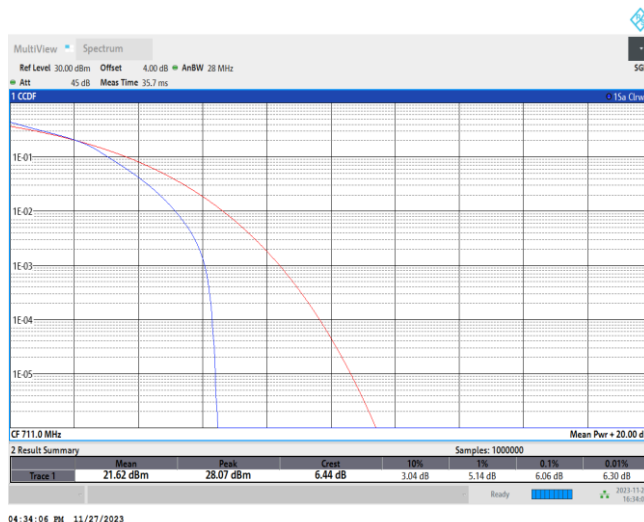
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Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0



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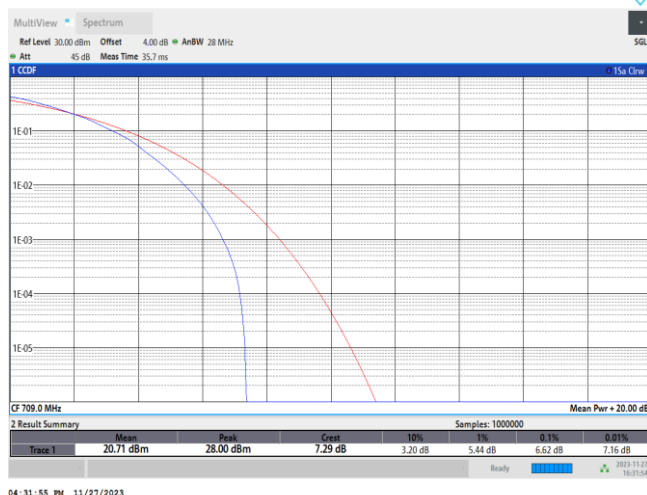
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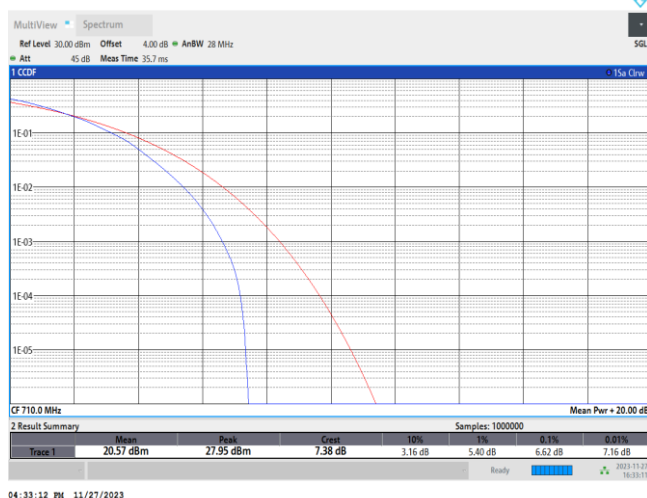
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## Band17-10MHz-64QAM-23780-50RB#0



## Band17-10MHz-64QAM-23790-50RB#0



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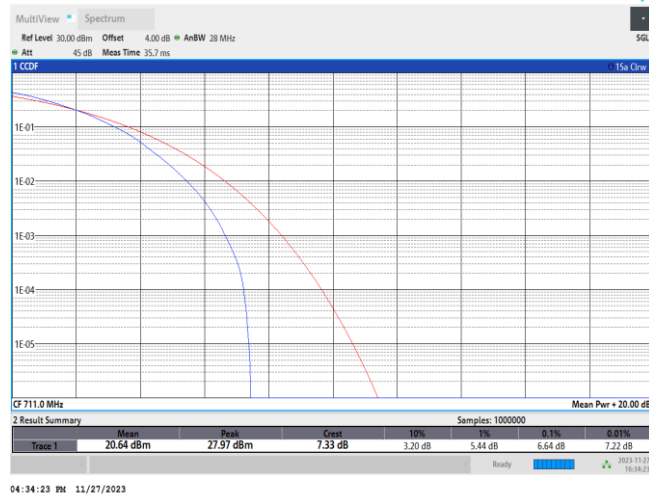
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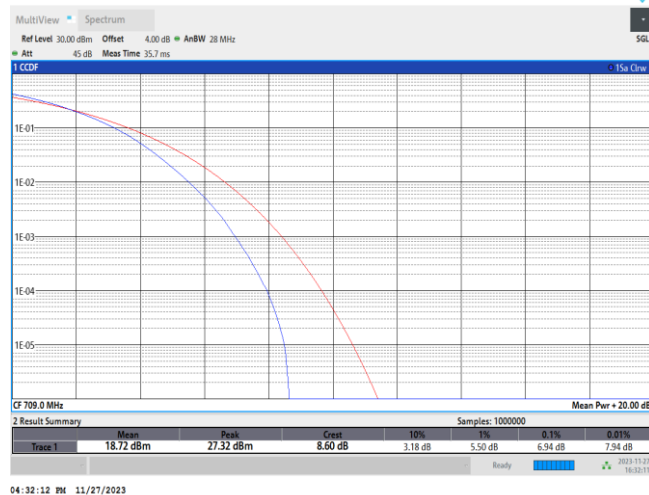
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### Band17-10MHz-64QAM-23800-50RB#0



### Band17-10MHz-256QAM-23780-50RB#0



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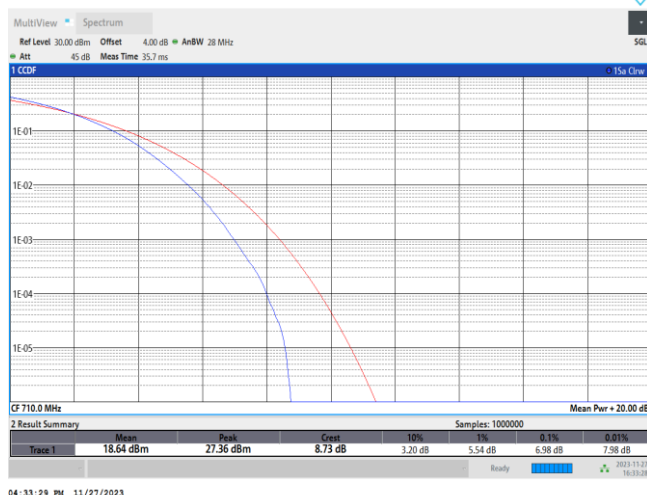
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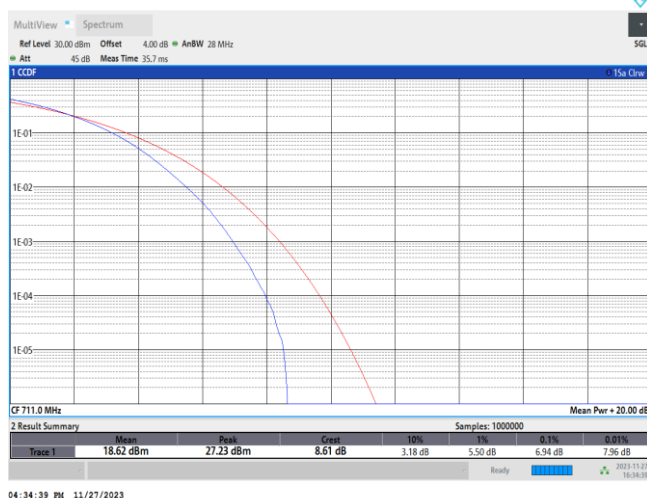
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### Band17-10MHz-256QAM-23790-50RB#0



### Band17-10MHz-256QAM-23800-50RB#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 |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.474                    | 4.84                 | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.482                    | 5.00                 | PASS    |
| Band17 | 5MHz      | 64QAM      | 23790   | 25RB#0           | 4.484                    | 4.97                 | PASS    |
| Band17 | 5MHz      | 256QAM     | 23790   | 25RB#0           | 4.472                    | 4.97                 | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.974                    | 9.53                 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.961                    | 9.40                 | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 8.926                    | 9.90                 | PASS    |
| Band17 | 10MHz     | 256QAM     | 23790   | 50RB#0           | 8.951                    | 9.57                 | PASS    |



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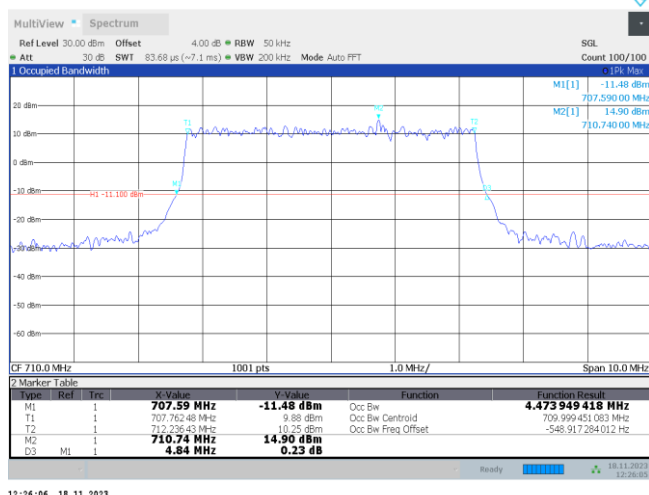
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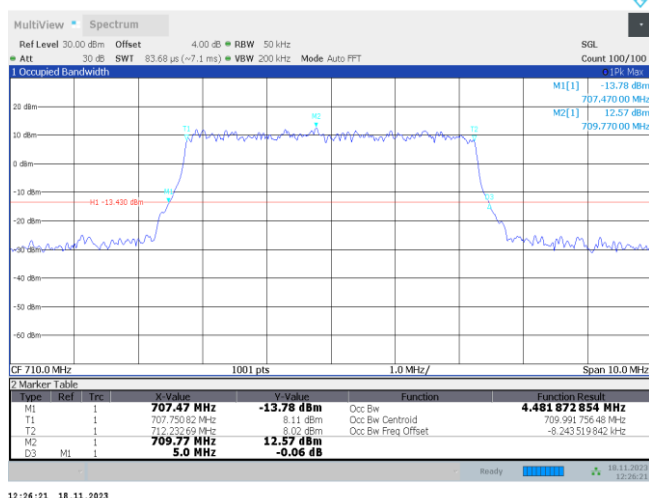
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## Test Graphs

Band17-5MHz-QPSK-23790-25RB#0



Band17-5MHz-16QAM-23790-25RB#0



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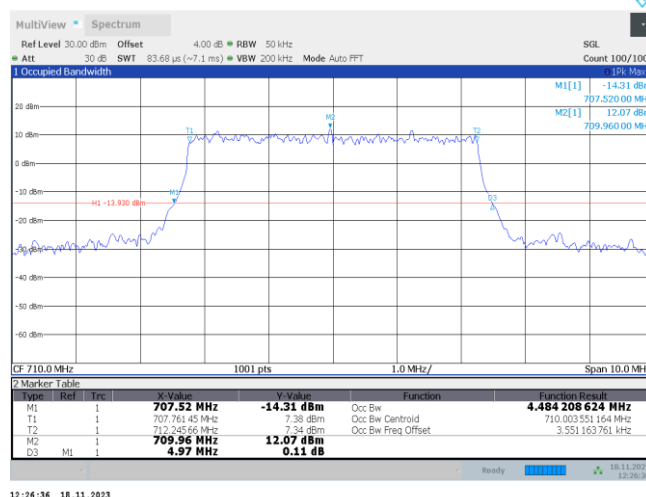
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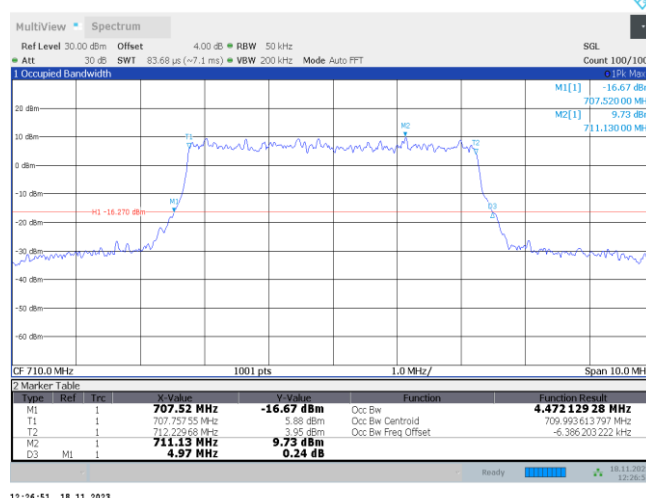
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### Band17-5MHz-256QAM-23790-25RB#0



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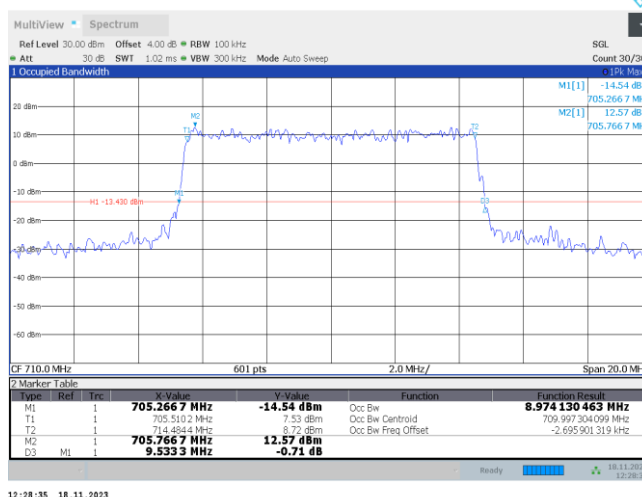
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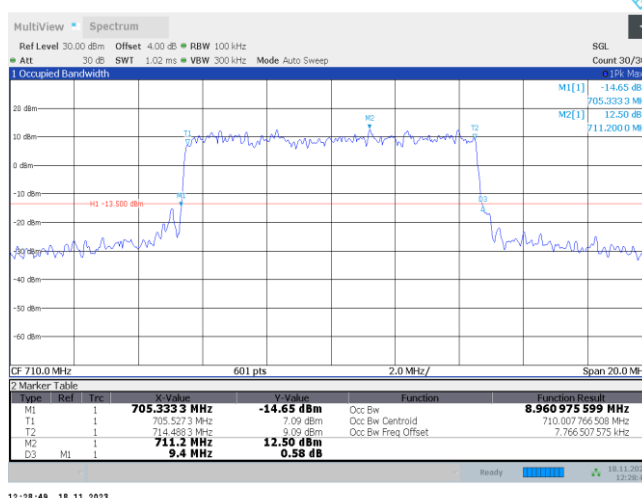
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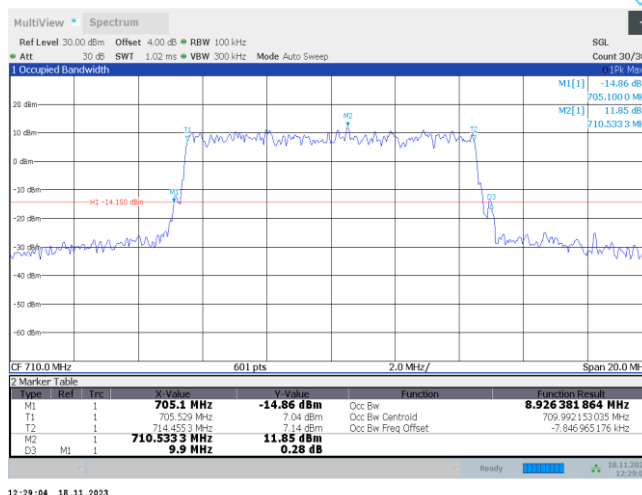
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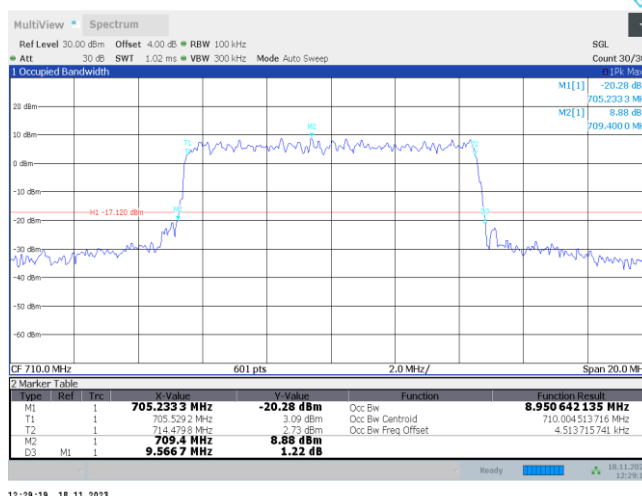
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### Band17-10MHz-256QAM-23790-50RB#0



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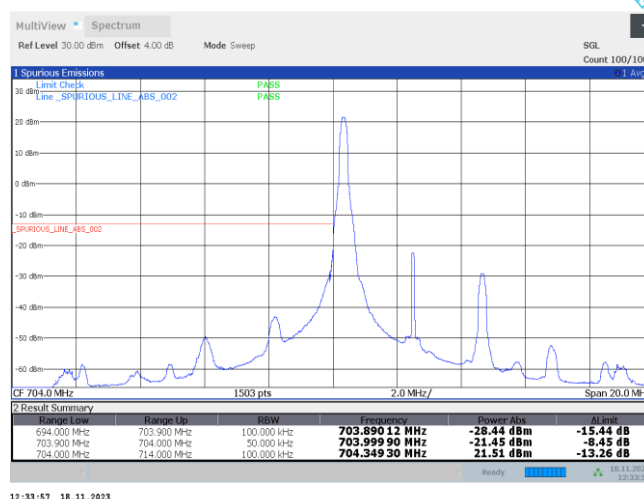
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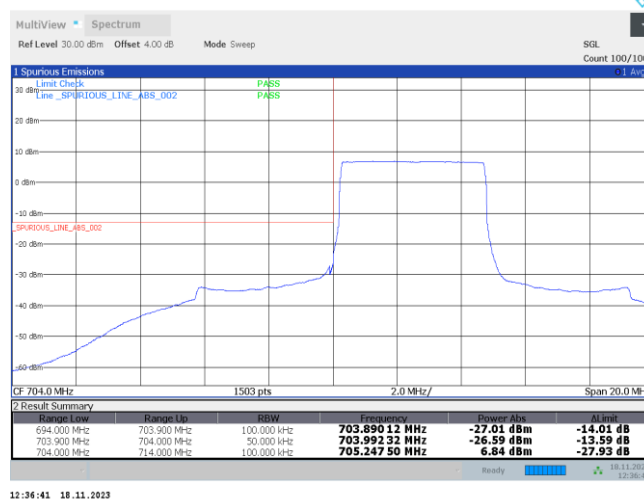
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### Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0



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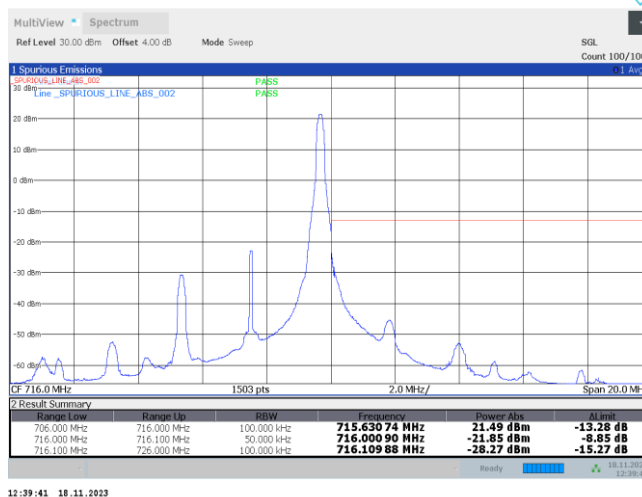
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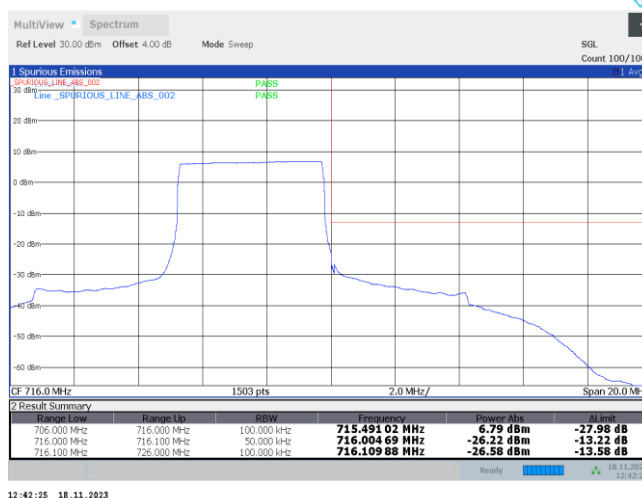
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### Band17-5MHz-QPSK-23825-1RB#24



### Band17-5MHz-QPSK-23825-25RB#0



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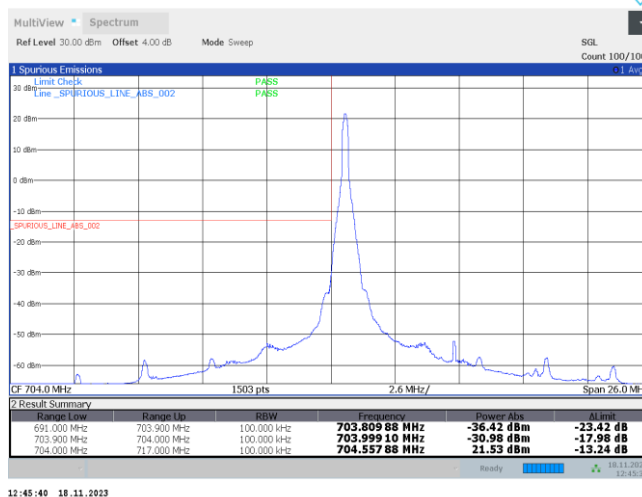
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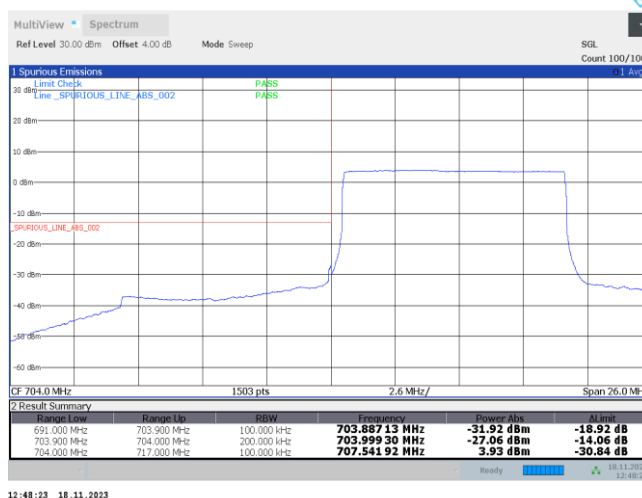
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### Band17-10MHz-QPSK-23780-1RB#0



### Band17-10MHz-QPSK-23780-50RB#0



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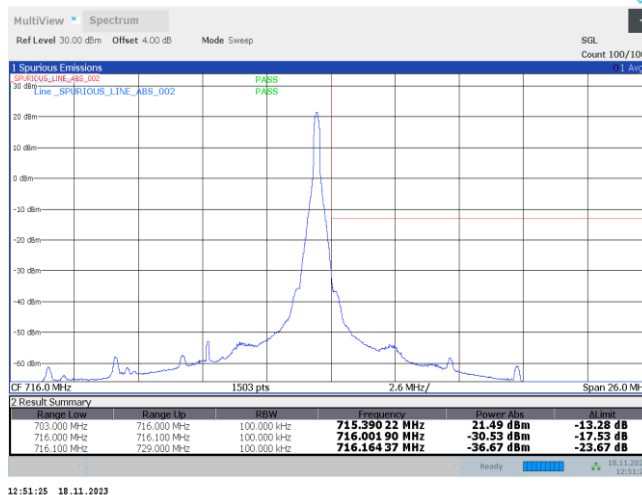
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### Band17-10MHz-QPSK-23800-1RB#49



### Band17-10MHz-QPSK-23800-50RB#0



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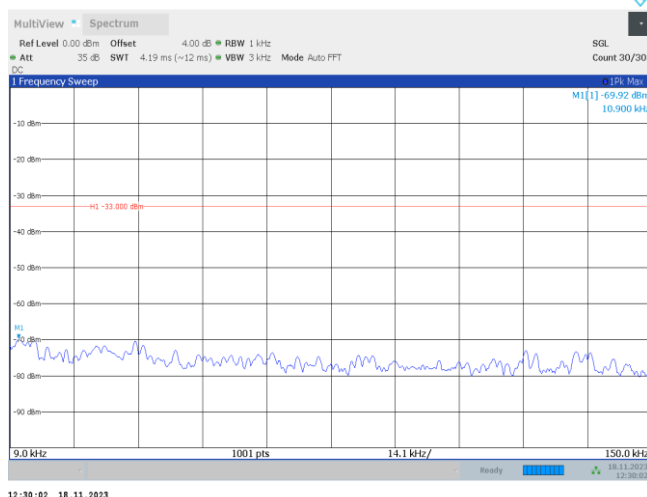
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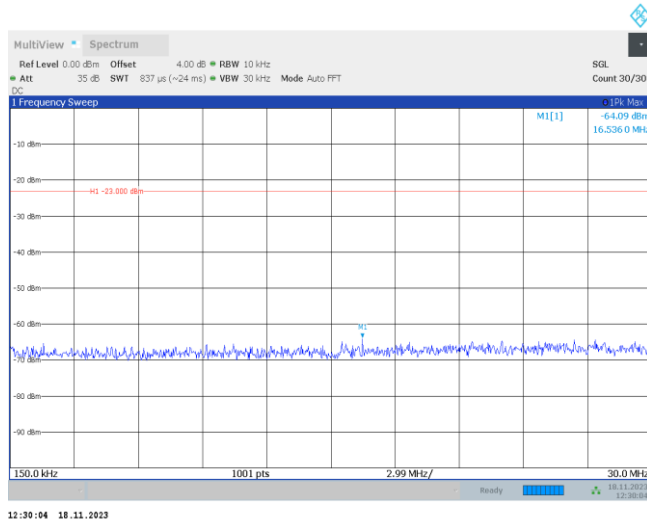
## Conducted Spurious Emission

### Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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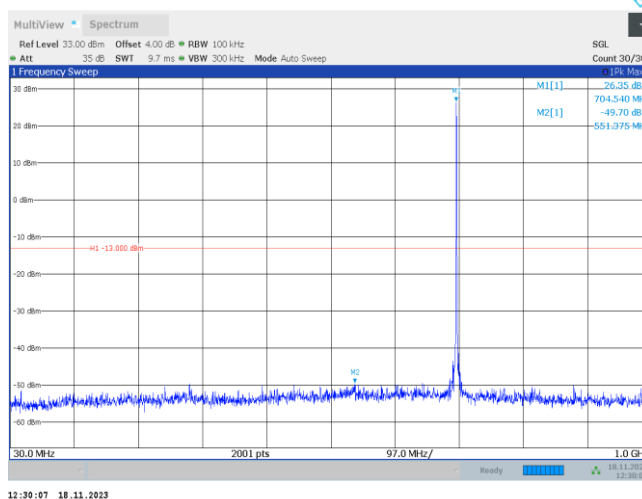
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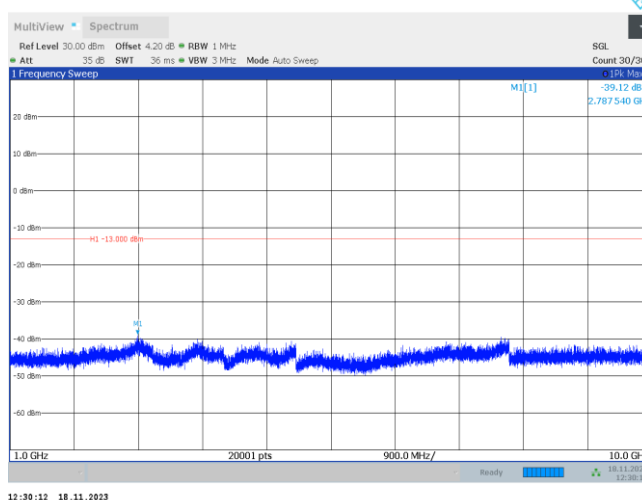
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### Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



### Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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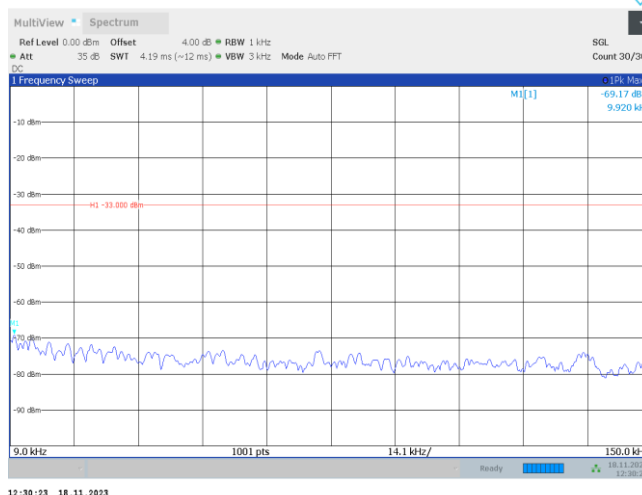
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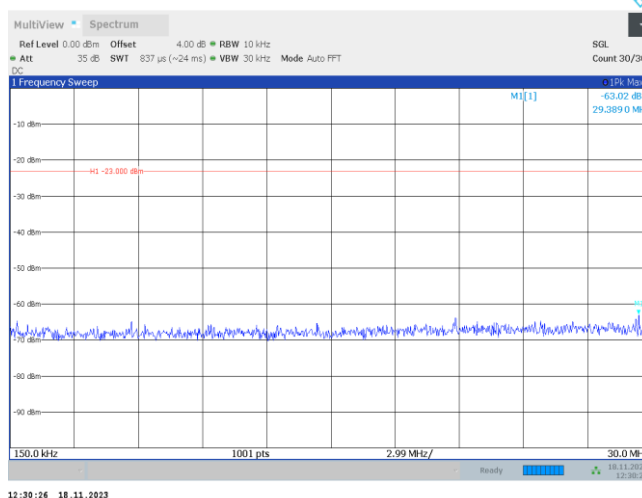
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### Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



### Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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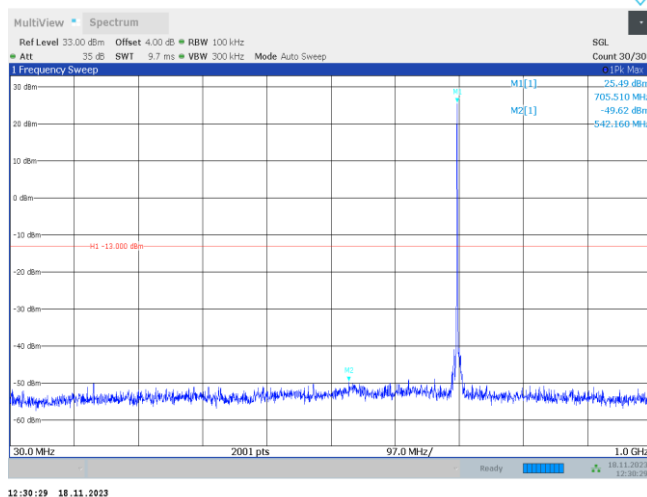
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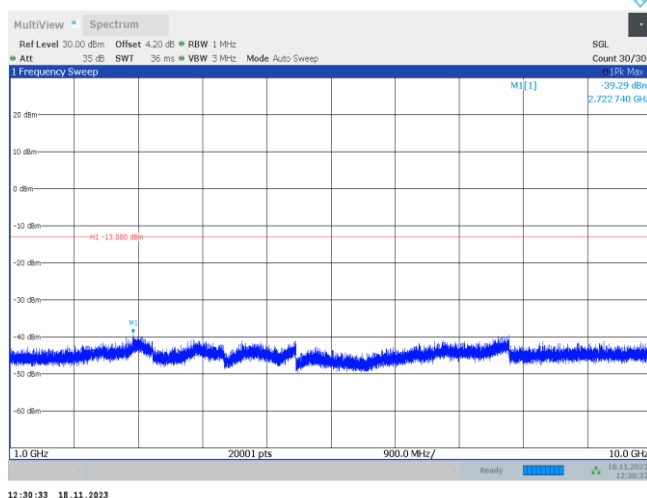
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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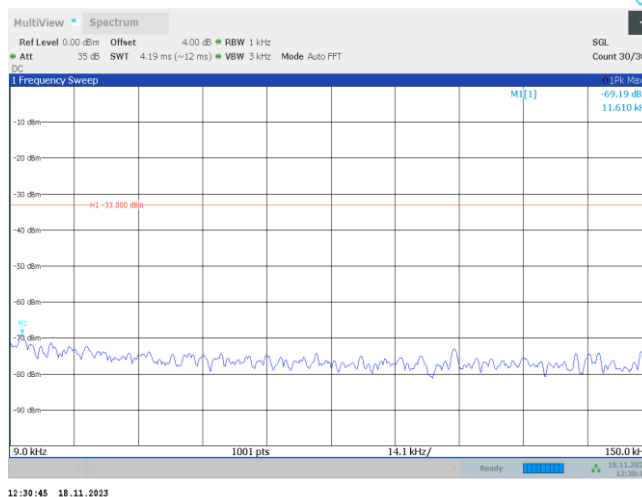
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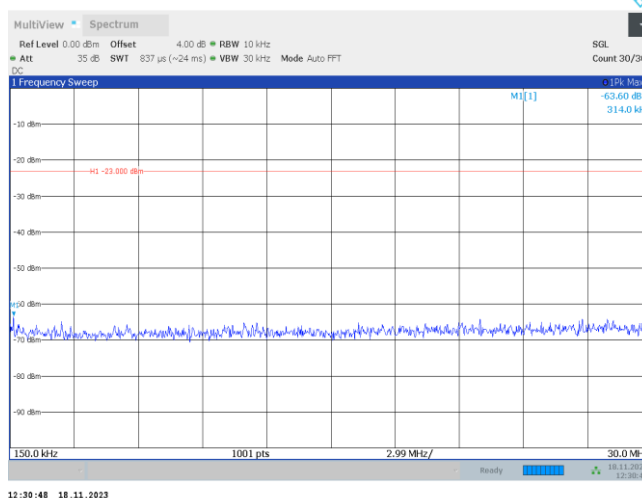
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### Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



12:30:45 18.11.2023

### Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



12:30:48 18.11.2023



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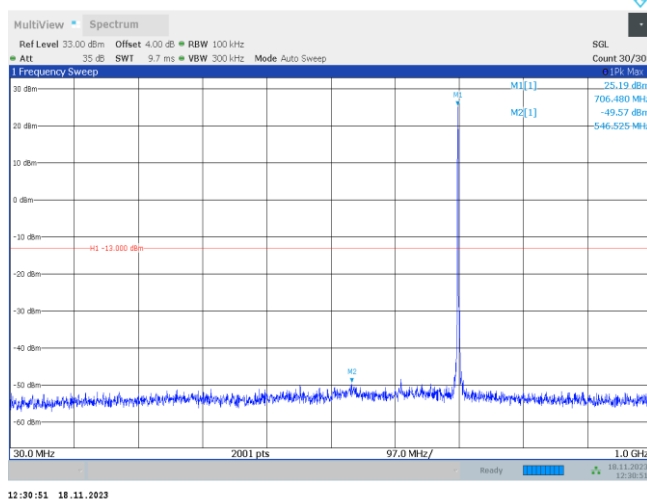
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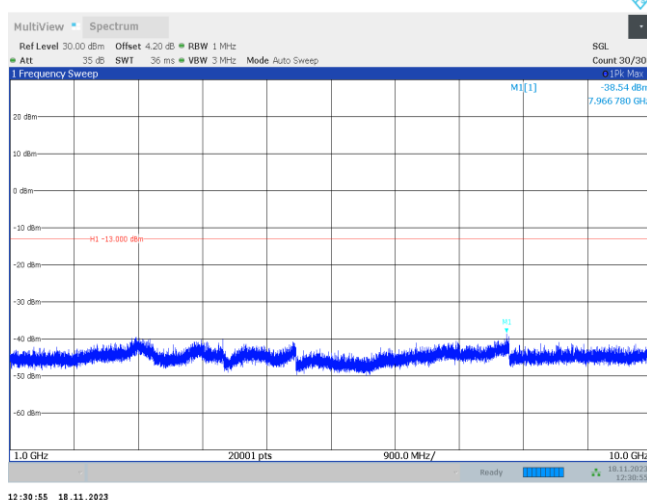
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### Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



### Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band17\_ TM1**
**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1409.1800       | 38.73          | -48.03      | 25.10    | -79.46      | -13.00      | 66.46       | Horizontal |
| 2               | 2113.7700       | 39.75          | -47.71      | 26.22    | -77.00      | -13.00      | 64.00       | Horizontal |
| 3               | 2818.3600       | 39.70          | -46.85      | 27.94    | -74.48      | -13.00      | 61.48       | Horizontal |
| 4               | 3522.9500       | 39.78          | -46.49      | 28.62    | -73.35      | -13.00      | 60.35       | Horizontal |
| 5               | 4227.5400       | 38.25          | -45.91      | 29.65    | -73.27      | -13.00      | 60.27       | Horizontal |
| 6               | 4932.1300       | 40.53          | -45.65      | 31.25    | -69.13      | -13.00      | 56.13       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1409.1800       | 43.26          | -48.03      | 25.10    | -74.93      | -13.00      | 61.93       | Vertical |
| 2               | 2113.7700       | 42.20          | -47.71      | 26.22    | -74.55      | -13.00      | 61.55       | Vertical |
| 3               | 2818.3600       | 42.14          | -46.85      | 27.94    | -72.04      | -13.00      | 59.04       | Vertical |
| 4               | 3522.9500       | 41.71          | -46.49      | 28.62    | -71.42      | -13.00      | 58.42       | Vertical |
| 5               | 4227.5400       | 40.88          | -45.91      | 29.65    | -70.64      | -13.00      | 57.64       | Vertical |
| 6               | 4932.1300       | 41.31          | -45.65      | 31.25    | -68.35      | -13.00      | 55.35       | Vertical |



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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**Test Band = LTE Band17\_ TM1**
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1411.1800       | 40.16          | -48.04      | 25.11    | -78.03      | -13.00      | 65.03       | Horizontal |
| 2               | 2116.7700       | 39.83          | -47.70      | 26.23    | -76.91      | -13.00      | 63.91       | Horizontal |
| 3               | 2822.3600       | 39.95          | -46.84      | 27.95    | -74.20      | -13.00      | 61.20       | Horizontal |
| 4               | 3527.9500       | 40.31          | -46.48      | 28.63    | -72.81      | -13.00      | 59.81       | Horizontal |
| 5               | 4233.5400       | 38.71          | -45.90      | 29.66    | -72.79      | -13.00      | 59.79       | Horizontal |
| 6               | 4939.1300       | 40.01          | -45.67      | 31.27    | -69.65      | -13.00      | 56.65       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1411.1800       | 43.81          | -48.04      | 25.11    | -74.38      | -13.00      | 61.38       | Vertical |
| 2               | 2116.7700       | 42.38          | -47.70      | 26.23    | -74.36      | -13.00      | 61.36       | Vertical |
| 3               | 2822.3600       | 42.41          | -46.84      | 27.95    | -71.74      | -13.00      | 58.74       | Vertical |
| 4               | 3527.9500       | 42.42          | -46.48      | 28.63    | -70.70      | -13.00      | 57.70       | Vertical |
| 5               | 4233.5400       | 40.54          | -45.90      | 29.66    | -70.96      | -13.00      | 57.96       | Vertical |
| 6               | 4939.1300       | 41.57          | -45.67      | 31.27    | -68.09      | -13.00      | 55.09       | Vertical |



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Test Band = LTE Band17\_ TM1

Test Channel = High

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1413.1800       | 42.48          | -48.04      | 25.11    | -75.72      | -13.00      | 62.72       | Horizontal |
| 2               | 2119.7700       | 40.40          | -47.70      | 26.24    | -76.33      | -13.00      | 63.33       | Horizontal |
| 3               | 2826.3600       | 40.05          | -46.83      | 27.95    | -74.08      | -13.00      | 61.08       | Horizontal |
| 4               | 3532.9500       | 40.06          | -46.47      | 28.63    | -73.04      | -13.00      | 60.04       | Horizontal |
| 5               | 4239.5400       | 38.66          | -45.89      | 29.68    | -72.81      | -13.00      | 59.81       | Horizontal |
| 6               | 4946.1300       | 40.17          | -45.69      | 31.28    | -69.49      | -13.00      | 56.49       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1413.1800       | 44.12          | -48.04      | 25.11    | -74.08      | -13.00      | 61.08       | Vertical |
| 2               | 2119.7700       | 42.68          | -47.70      | 26.24    | -74.05      | -13.00      | 61.05       | Vertical |
| 3               | 2826.3600       | 42.26          | -46.83      | 27.95    | -71.87      | -13.00      | 58.87       | Vertical |
| 4               | 3532.9500       | 41.42          | -46.47      | 28.63    | -71.68      | -13.00      | 58.68       | Vertical |
| 5               | 4239.5400       | 40.52          | -45.89      | 29.68    | -70.95      | -13.00      | 57.95       | Vertical |
| 6               | 4946.1300       | 41.26          | -45.69      | 31.28    | -68.40      | -13.00      | 55.40       | 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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VL            | NT               | 0.80           | 0.001127        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VN            | NT               | 0.90           | 0.001268        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VH            | NT               | 0.90           | 0.001268        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -30              | -0.60          | -0.000845       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -20              | -0.20          | -0.000282       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -10              | 0.00           | 0.000000        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 0                | 0.80           | 0.001127        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 10               | -1.80          | -0.002535       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 20               | 0.80           | 0.001127        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 30               | -1.10          | -0.001549       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 40               | 0.30           | 0.000423        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 50               | -0.30          | -0.000423       | PASS    |

---End of Attachment---



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