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# Appendix B.8

## LTE Band 25



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 22.83       | 24.42     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#2            | 22.94       | 24.53     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#5            | 22.88       | 24.47     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 21.94       | 23.53     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 22.76       | 24.35     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#2            | 22.93       | 24.52     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#5            | 22.79       | 24.38     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 6RB#0            | 21.83       | 23.42     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 22.74       | 24.33     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#2            | 22.79       | 24.38     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#5            | 22.74       | 24.33     | 33         | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 21.89       | 23.48     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 22.16       | 23.75     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#2            | 22.39       | 23.98     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#5            | 22.23       | 23.82     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 21.1        | 22.69     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 22.13       | 23.72     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#2            | 22.31       | 23.9      | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#5            | 22.16       | 23.75     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 6RB#0            | 20.97       | 22.56     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 22.01       | 23.6      | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#2            | 22.07       | 23.66     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#5            | 21.85       | 23.44     | 33         | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 20.96       | 22.55     | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 22.93       | 24.52     | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#8            | 22.97       | 24.56     | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#14           | 22.97       | 24.56     | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 22.01       | 23.6      | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 1RB#0            | 22.86       | 24.45     | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 1RB#8            | 22.91       | 24.5      | 33         | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 1RB#14           | 22.89       | 24.48     | 33         | PASS    |



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|--------|------|-------|-------|--------|-------|-------|----|------|
| Band25 | 3MHz | QPSK  | 26365 | 15RB#0 | 21.94 | 23.53 | 33 | PASS |
| Band25 | 3MHz | QPSK  | 26675 | 1RB#0  | 22.83 | 24.42 | 33 | PASS |
| Band25 | 3MHz | QPSK  | 26675 | 1RB#8  | 22.83 | 24.42 | 33 | PASS |
| Band25 | 3MHz | QPSK  | 26675 | 1RB#14 | 22.77 | 24.36 | 33 | PASS |
| Band25 | 3MHz | QPSK  | 26675 | 15RB#0 | 22.02 | 23.61 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26055 | 1RB#0  | 22.25 | 23.84 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26055 | 1RB#8  | 22.35 | 23.94 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26055 | 1RB#14 | 22.22 | 23.81 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26055 | 15RB#0 | 21.06 | 22.65 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26365 | 1RB#0  | 22.21 | 23.8  | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26365 | 1RB#8  | 22.21 | 23.8  | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26365 | 1RB#14 | 22.27 | 23.86 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26365 | 15RB#0 | 21    | 22.59 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26675 | 1RB#0  | 22.06 | 23.65 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26675 | 1RB#8  | 22.03 | 23.62 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26675 | 1RB#14 | 21.95 | 23.54 | 33 | PASS |
| Band25 | 3MHz | 16QAM | 26675 | 15RB#0 | 20.93 | 22.52 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26065 | 1RB#0  | 22.96 | 24.55 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26065 | 1RB#12 | 22.97 | 24.56 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26065 | 1RB#24 | 22.96 | 24.55 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26065 | 25RB#0 | 21.99 | 23.58 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26365 | 1RB#0  | 22.92 | 24.51 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26365 | 1RB#12 | 22.83 | 24.42 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26365 | 1RB#24 | 22.96 | 24.55 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26365 | 25RB#0 | 21.95 | 23.54 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26665 | 1RB#0  | 22.81 | 24.4  | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26665 | 1RB#12 | 22.86 | 24.45 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26665 | 1RB#24 | 22.75 | 24.34 | 33 | PASS |
| Band25 | 5MHz | QPSK  | 26665 | 25RB#0 | 21.98 | 23.57 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26065 | 1RB#0  | 22.35 | 23.94 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26065 | 1RB#12 | 22.31 | 23.9  | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26065 | 1RB#24 | 22.36 | 23.95 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26065 | 25RB#0 | 21.08 | 22.67 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26365 | 1RB#0  | 22.19 | 23.78 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26365 | 1RB#12 | 22.33 | 23.92 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26365 | 1RB#24 | 22.33 | 23.92 | 33 | PASS |
| Band25 | 5MHz | 16QAM | 26365 | 25RB#0 | 20.98 | 22.57 | 33 | PASS |



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| Band25 | 5MHz  | 16QAM | 26665 | 1RB#0  | 22.14 | 23.73 | 33 | PASS |
| Band25 | 5MHz  | 16QAM | 26665 | 1RB#12 | 22.1  | 23.69 | 33 | PASS |
| Band25 | 5MHz  | 16QAM | 26665 | 1RB#24 | 21.97 | 23.56 | 33 | PASS |
| Band25 | 5MHz  | 16QAM | 26665 | 25RB#0 | 20.93 | 22.52 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26090 | 1RB#0  | 22.95 | 24.54 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26090 | 1RB#24 | 23.01 | 24.6  | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26090 | 1RB#49 | 22.96 | 24.55 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26090 | 50RB#0 | 22.03 | 23.62 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26365 | 1RB#0  | 22.87 | 24.46 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26365 | 1RB#24 | 22.91 | 24.5  | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26365 | 1RB#49 | 22.92 | 24.51 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26365 | 50RB#0 | 21.96 | 23.55 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26640 | 1RB#0  | 22.87 | 24.46 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26640 | 1RB#24 | 22.83 | 24.42 | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26640 | 1RB#49 | 22.81 | 24.4  | 33 | PASS |
| Band25 | 10MHz | QPSK  | 26640 | 50RB#0 | 21.98 | 23.57 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26090 | 1RB#0  | 22.32 | 23.91 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26090 | 1RB#24 | 22.29 | 23.88 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26090 | 1RB#49 | 22.27 | 23.86 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26090 | 50RB#0 | 21.04 | 22.63 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26365 | 1RB#0  | 22.21 | 23.8  | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26365 | 1RB#24 | 22.35 | 23.94 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26365 | 1RB#49 | 22.34 | 23.93 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26365 | 50RB#0 | 21.02 | 22.61 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26640 | 1RB#0  | 22.17 | 23.76 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26640 | 1RB#24 | 22.24 | 23.83 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26640 | 1RB#49 | 22.08 | 23.67 | 33 | PASS |
| Band25 | 10MHz | 16QAM | 26640 | 50RB#0 | 21.02 | 22.61 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26115 | 1RB#0  | 22.91 | 24.5  | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26115 | 1RB#38 | 22.92 | 24.51 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26115 | 1RB#74 | 22.87 | 24.46 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26115 | 75RB#0 | 21.93 | 23.52 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26365 | 1RB#0  | 22.84 | 24.43 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26365 | 1RB#38 | 22.94 | 24.53 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26365 | 1RB#74 | 22.91 | 24.5  | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26365 | 75RB#0 | 21.95 | 23.54 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26615 | 1RB#0  | 22.73 | 24.32 | 33 | PASS |



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| Band25 | 15MHz | QPSK  | 26615 | 1RB#38  | 22.87 | 24.46 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26615 | 1RB#74  | 22.79 | 24.38 | 33 | PASS |
| Band25 | 15MHz | QPSK  | 26615 | 75RB#0  | 21.93 | 23.52 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26115 | 1RB#0   | 22.3  | 23.89 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26115 | 1RB#38  | 22.33 | 23.92 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26115 | 1RB#74  | 22.17 | 23.76 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26115 | 75RB#0  | 20.98 | 22.57 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26365 | 1RB#0   | 22.14 | 23.73 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26365 | 1RB#38  | 22.2  | 23.79 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26365 | 1RB#74  | 22.23 | 23.82 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26365 | 75RB#0  | 21.02 | 22.61 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26615 | 1RB#0   | 22.11 | 23.7  | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26615 | 1RB#38  | 22.32 | 23.91 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26615 | 1RB#74  | 22.09 | 23.68 | 33 | PASS |
| Band25 | 15MHz | 16QAM | 26615 | 75RB#0  | 20.96 | 22.55 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26140 | 1RB#0   | 22.92 | 24.51 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26140 | 1RB#49  | 23    | 24.59 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26140 | 1RB#99  | 22.81 | 24.4  | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26140 | 100RB#0 | 21.95 | 23.54 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26365 | 1RB#0   | 22.88 | 24.47 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26365 | 1RB#49  | 22.96 | 24.55 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26365 | 1RB#99  | 22.93 | 24.52 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26365 | 100RB#0 | 21.99 | 23.58 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26590 | 1RB#0   | 22.85 | 24.44 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26590 | 1RB#49  | 22.84 | 24.43 | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26590 | 1RB#99  | 22.81 | 24.4  | 33 | PASS |
| Band25 | 20MHz | QPSK  | 26590 | 100RB#0 | 22.01 | 23.6  | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26140 | 1RB#0   | 22.24 | 23.83 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26140 | 1RB#49  | 22.31 | 23.9  | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26140 | 1RB#99  | 22.13 | 23.72 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26140 | 100RB#0 | 20.97 | 22.56 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26365 | 1RB#0   | 22.21 | 23.8  | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26365 | 1RB#49  | 22.14 | 23.73 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26365 | 1RB#99  | 22.34 | 23.93 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26365 | 100RB#0 | 20.99 | 22.58 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26590 | 1RB#0   | 22.07 | 23.66 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26590 | 1RB#49  | 22.09 | 23.68 | 33 | PASS |



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|        |       |       |       |         |       |       |    |      |
|--------|-------|-------|-------|---------|-------|-------|----|------|
| Band25 | 20MHz | 16QAM | 26590 | 1RB#99  | 21.94 | 23.53 | 33 | PASS |
| Band25 | 20MHz | 16QAM | 26590 | 100RB#0 | 21.03 | 22.62 | 33 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band25 | 20MHz     | QPSK       | 26140   | 100RB#0          | 5.34       | 13        | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0          | 5.58       | 13        | PASS    |
| Band25 | 20MHz     | QPSK       | 26590   | 100RB#0          | 5.34       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26140   | 100RB#0          | 6.12       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26365   | 100RB#0          | 6.50       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26590   | 100RB#0          | 6.14       | 13        | PASS    |



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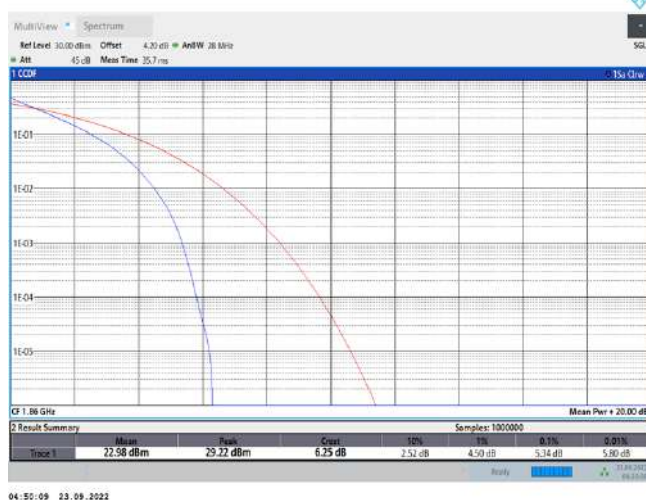
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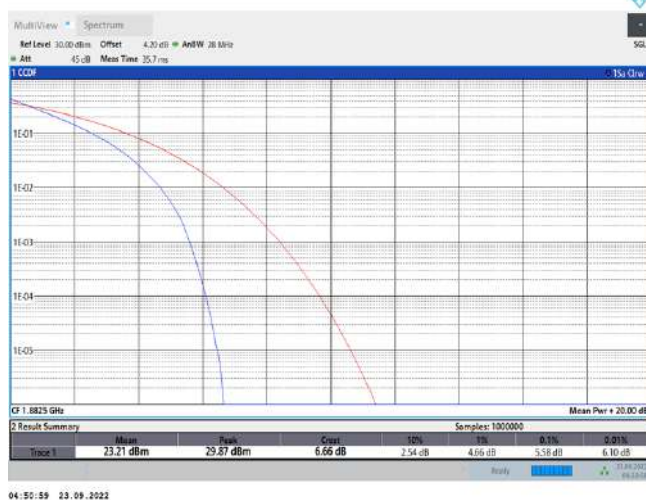
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### Test Graphs

Band25-20MHz-QPSK-26140-100RB#0



Band25-20MHz-QPSK-26365-100RB#0



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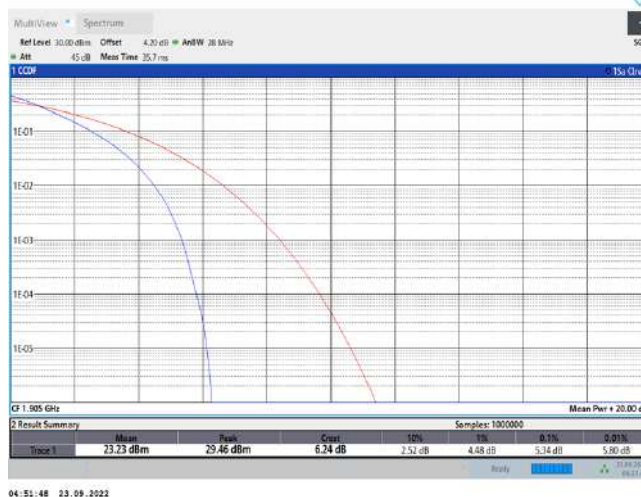


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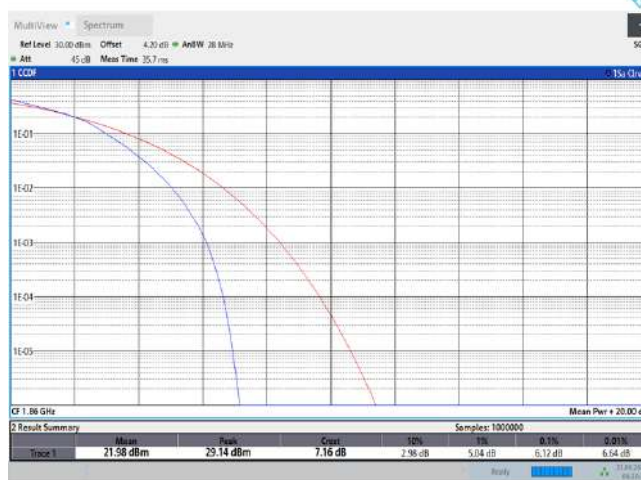
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### Band25-20MHz-QPSK-26590-100RB#0



04:51:48 23.09.2022

### Band25-20MHz-16QAM-26140-100RB#0



04:50:26 23.09.2022



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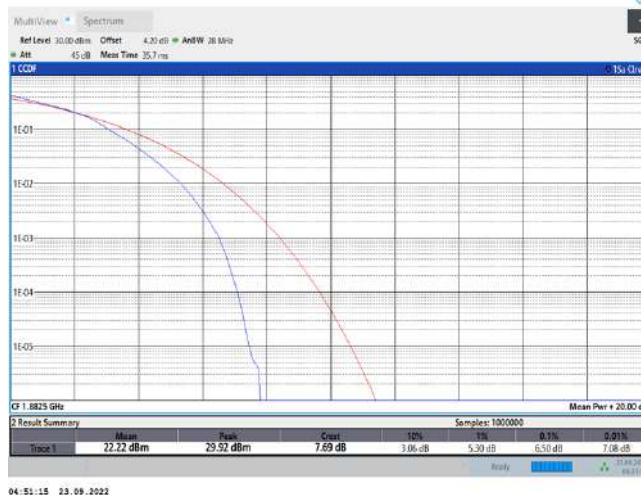
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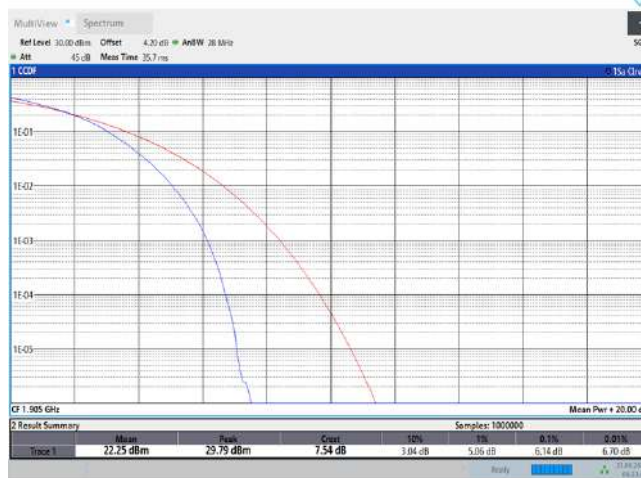
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### Band25-20MHz-16QAM-26365-100RB#0



04:51:15 23.09.2022

### Band25-20MHz-16QAM-26590-100RB#0



04:52:05 23.09.2022



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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0          | PASS   | PASS    |
| Band25 | 20MHz     | 16QAM      | 26365   | 100RB#0          | PASS   | PASS    |



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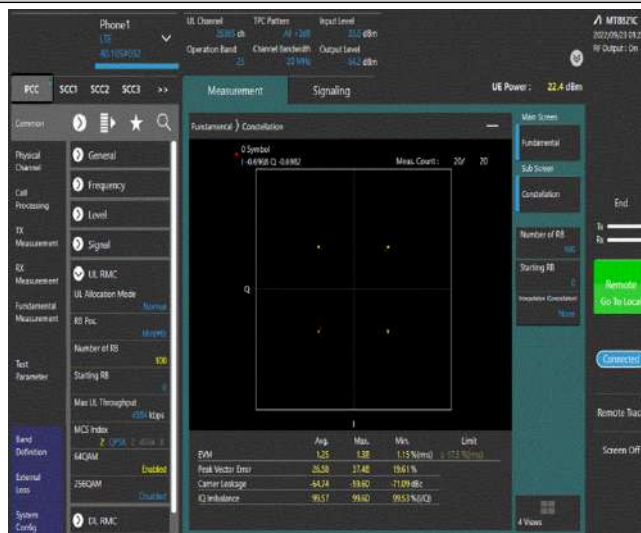
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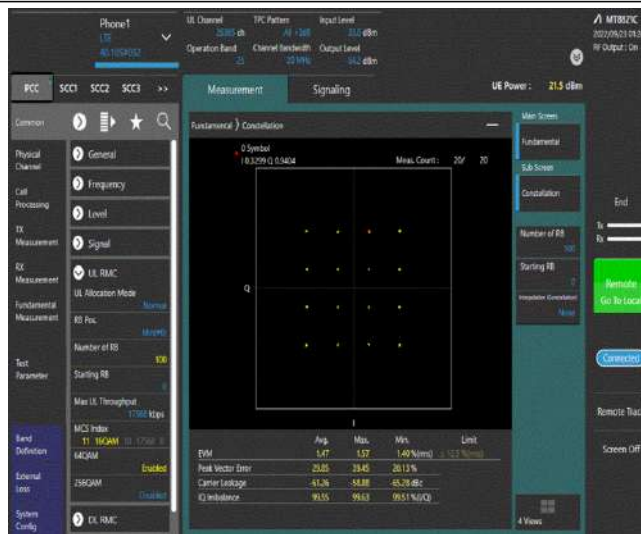
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### Test Graphs

Band25-20MHz-QPSK-26365-100RB#0



Band25-20MHz-16QAM-26365-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 1.086                    | 1.22                 | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 6RB#0            | 1.087                    | 1.24                 | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 1.088                    | 1.24                 | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 1.094                    | 1.23                 | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 6RB#0            | 1.094                    | 1.24                 | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 1.095                    | 1.25                 | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 2.692                    | 2.99                 | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 15RB#0           | 2.692                    | 2.98                 | PASS    |
| Band25 | 3MHz      | QPSK       | 26675   | 15RB#0           | 2.693                    | 2.98                 | PASS    |
| Band25 | 3MHz      | 16QAM      | 26055   | 15RB#0           | 2.688                    | 2.99                 | PASS    |
| Band25 | 3MHz      | 16QAM      | 26365   | 15RB#0           | 2.689                    | 2.99                 | PASS    |
| Band25 | 3MHz      | 16QAM      | 26675   | 15RB#0           | 2.687                    | 2.98                 | PASS    |
| Band25 | 5MHz      | QPSK       | 26065   | 25RB#0           | 4.473                    | 4.91                 | PASS    |
| Band25 | 5MHz      | QPSK       | 26365   | 25RB#0           | 4.472                    | 4.90                 | PASS    |
| Band25 | 5MHz      | QPSK       | 26665   | 25RB#0           | 4.469                    | 4.87                 | PASS    |
| Band25 | 5MHz      | 16QAM      | 26065   | 25RB#0           | 4.468                    | 4.91                 | PASS    |
| Band25 | 5MHz      | 16QAM      | 26365   | 25RB#0           | 4.472                    | 4.91                 | PASS    |
| Band25 | 5MHz      | 16QAM      | 26665   | 25RB#0           | 4.465                    | 4.92                 | PASS    |
| Band25 | 10MHz     | QPSK       | 26090   | 50RB#0           | 8.937                    | 9.68                 | PASS    |
| Band25 | 10MHz     | QPSK       | 26365   | 50RB#0           | 8.935                    | 9.70                 | PASS    |
| Band25 | 10MHz     | QPSK       | 26640   | 50RB#0           | 8.926                    | 9.60                 | PASS    |
| Band25 | 10MHz     | 16QAM      | 26090   | 50RB#0           | 8.916                    | 9.66                 | PASS    |
| Band25 | 10MHz     | 16QAM      | 26365   | 50RB#0           | 8.92                     | 9.64                 | PASS    |
| Band25 | 10MHz     | 16QAM      | 26640   | 50RB#0           | 8.908                    | 9.60                 | PASS    |
| Band25 | 15MHz     | QPSK       | 26115   | 75RB#0           | 13.452                   | 14.76                | PASS    |
| Band25 | 15MHz     | QPSK       | 26365   | 75RB#0           | 13.478                   | 14.70                | PASS    |
| Band25 | 15MHz     | QPSK       | 26615   | 75RB#0           | 13.477                   | 14.67                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26115   | 75RB#0           | 13.444                   | 14.76                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26365   | 75RB#0           | 13.464                   | 14.85                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26615   | 75RB#0           | 13.449                   | 14.70                | PASS    |



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|        |       |       |       |         |        |       |      |
|--------|-------|-------|-------|---------|--------|-------|------|
| Band25 | 20MHz | QPSK  | 26140 | 100RB#0 | 17.905 | 19.36 | PASS |
| Band25 | 20MHz | QPSK  | 26365 | 100RB#0 | 17.948 | 19.52 | PASS |
| Band25 | 20MHz | QPSK  | 26590 | 100RB#0 | 17.932 | 19.28 | PASS |
| Band25 | 20MHz | 16QAM | 26140 | 100RB#0 | 17.87  | 19.32 | PASS |
| Band25 | 20MHz | 16QAM | 26365 | 100RB#0 | 17.892 | 19.36 | PASS |
| Band25 | 20MHz | 16QAM | 26590 | 100RB#0 | 17.888 | 19.44 | PASS |



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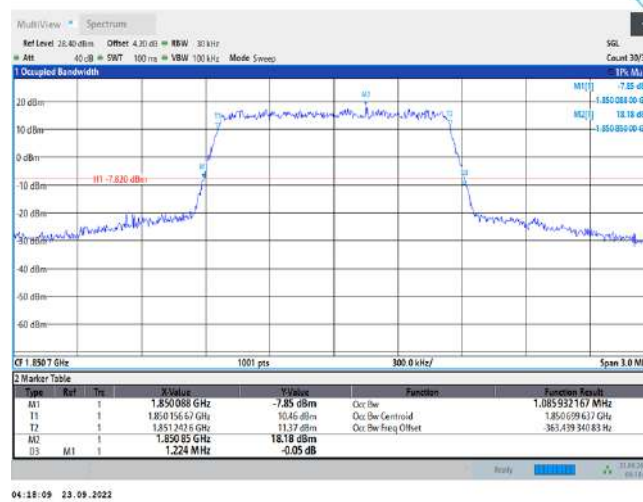
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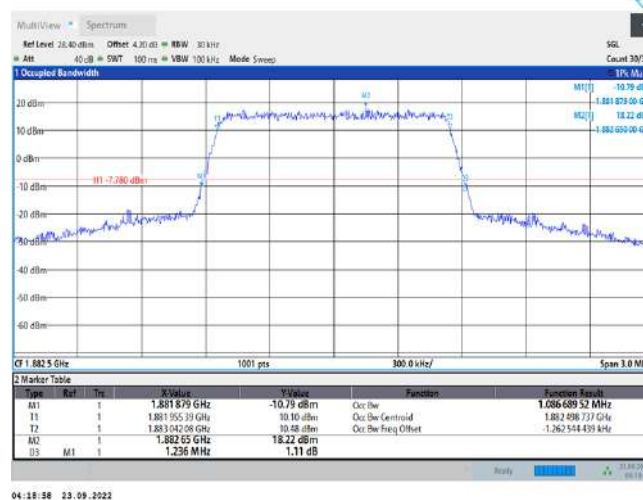
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### Test Graphs

Band25-1.4MHz-QPSK-26047-6RB#0



Band25-1.4MHz-QPSK-26365-6RB#0



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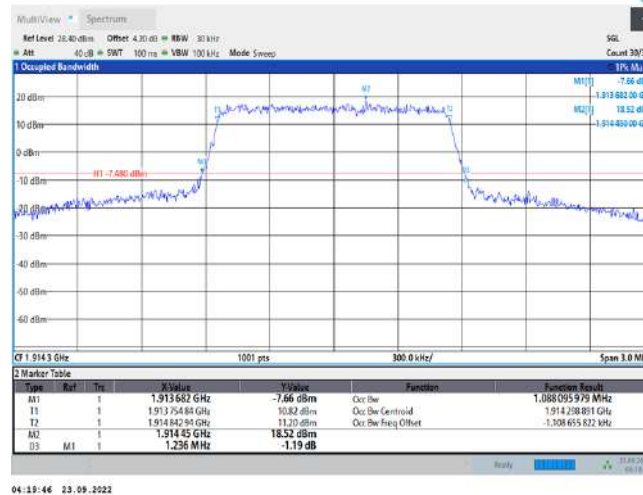
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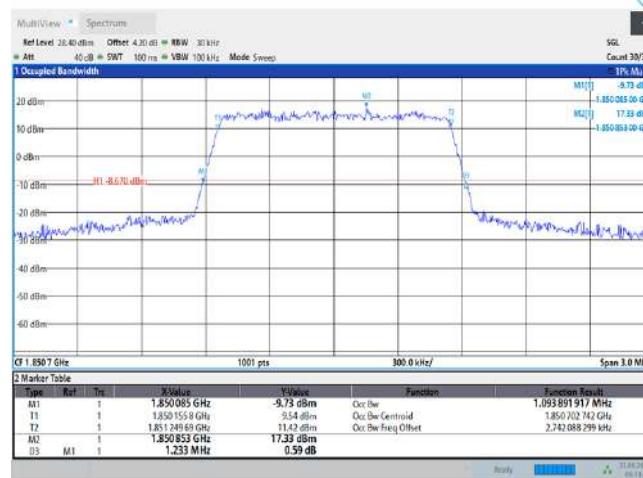
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### Band25-1.4MHz-QPSK-26683-6RB#0



04:18:46 23.09.2022

### Band25-1.4MHz-16QAM-26047-6RB#0



04:18:25 23.09.2022



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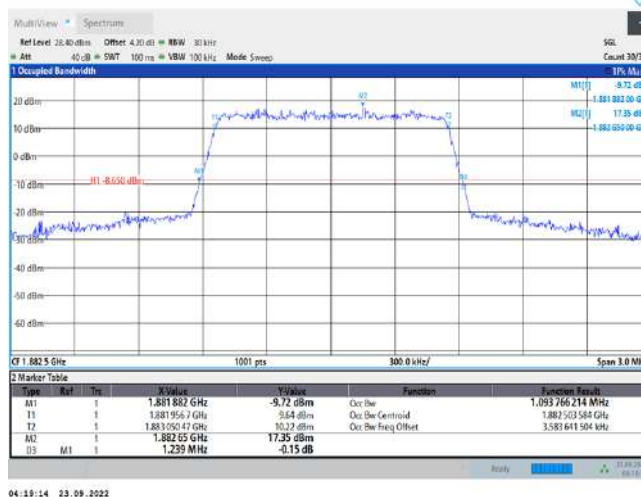


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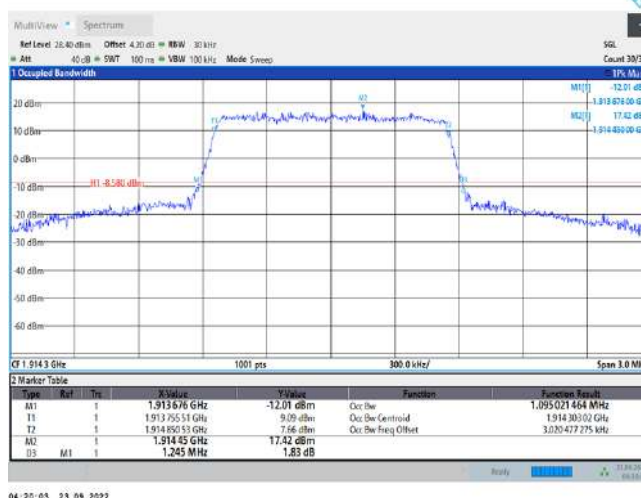
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04:19:14 23.09.2022

### Band25-1.4MHz-16QAM-26683-6RB#0



04:20:03 23.09.2022



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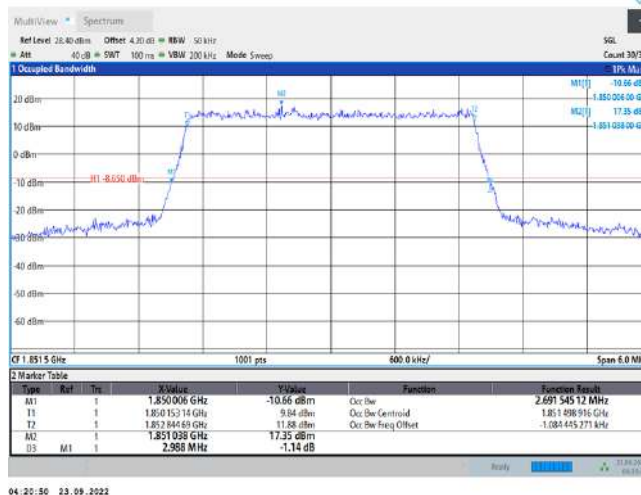
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### Band25-3MHz-QPSK-26055-15RB#0



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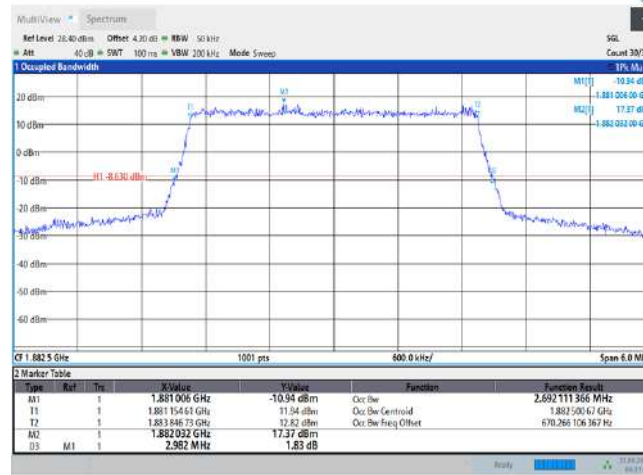
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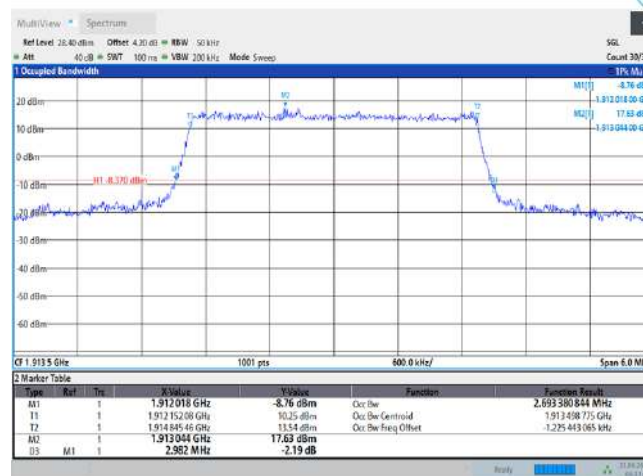
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### Band25-3MHz-QPSK-26365-15RB#0



04:21:39 23.09.2022

### Band25-3MHz-QPSK-26675-15RB#0



04:22:27 23.09.2022



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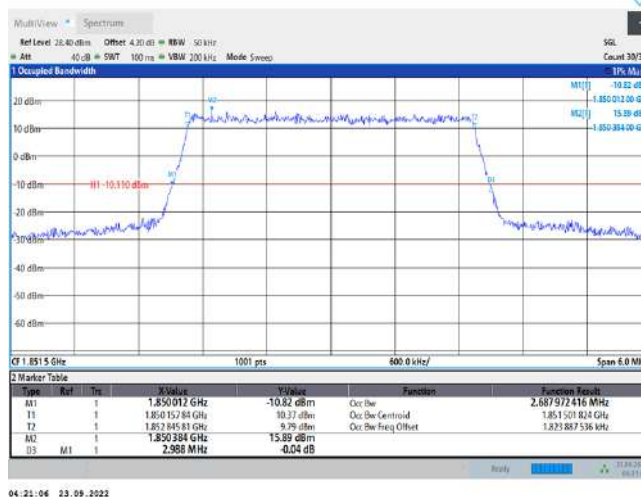
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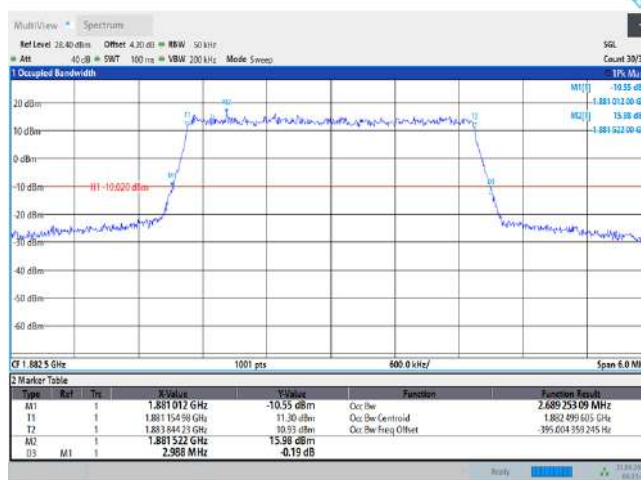
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### Band25-3MHz-16QAM-26055-15RB#0



04:21:06 23.09.2022

### Band25-3MHz-16QAM-26365-15RB#0



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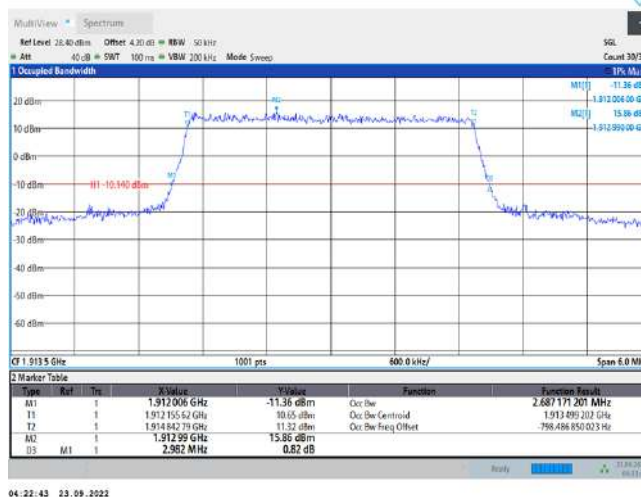


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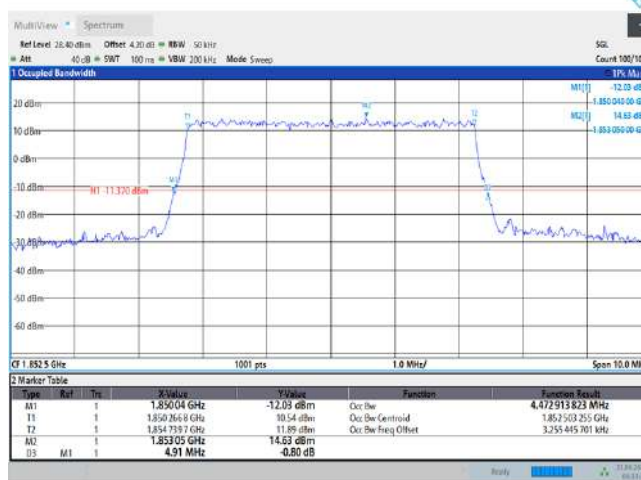
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### Band25-3MHz-16QAM-26675-15RB#0



04:22:43 23.09.2022

### Band25-5MHz-QPSK-26065-25RB#0



04:23:36 23.09.2022



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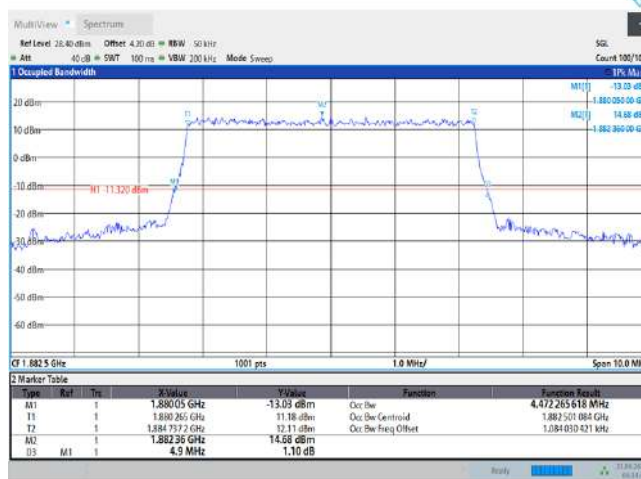
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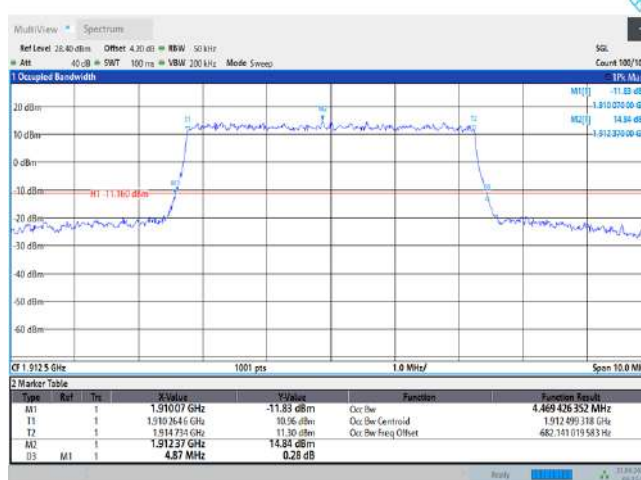
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### Band25-5MHz-QPSK-26365-25RB#0



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### Band25-5MHz-QPSK-26665-25RB#0



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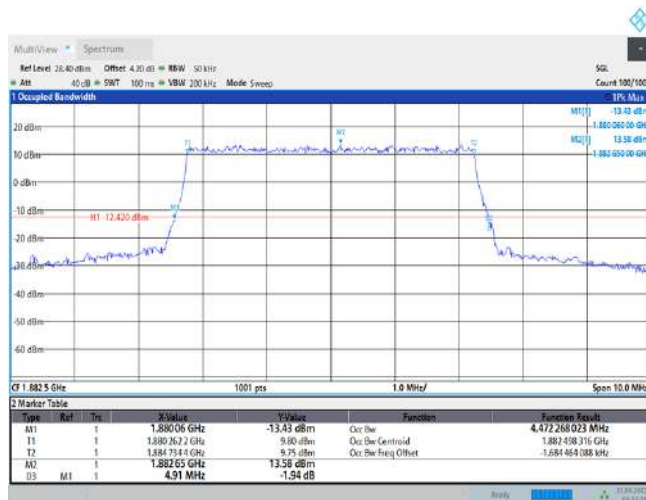
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### Band25-5MHz-16QAM-26065-25RB#0



04:23:59 23.09.2022

### Band25-5MHz-16QAM-26365-25RB#0



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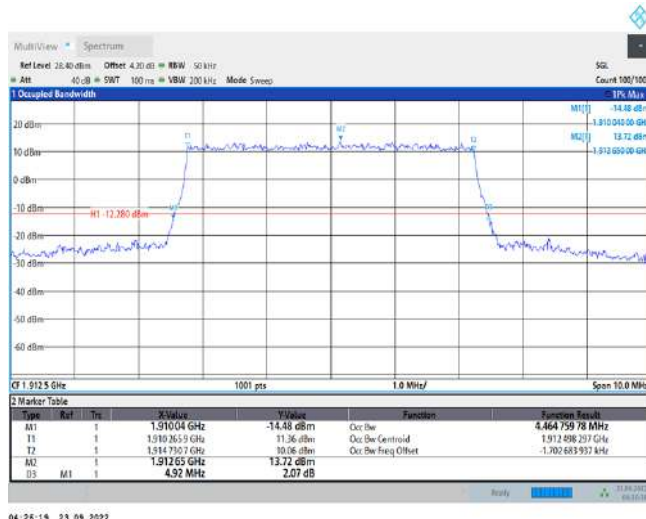
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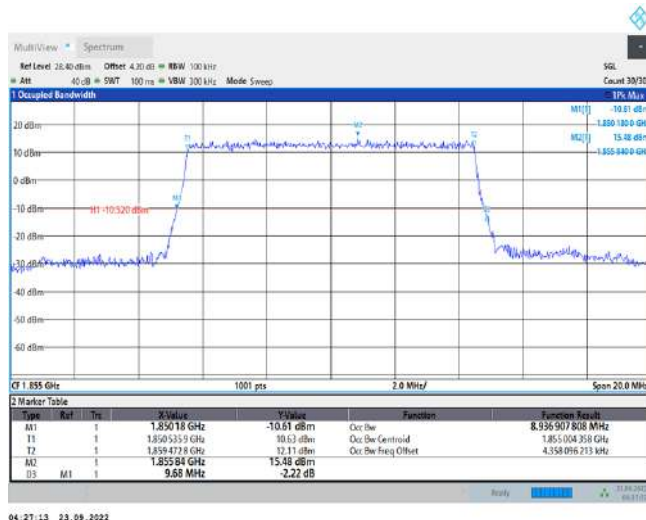
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### Band25-5MHz-16QAM-26665-25RB#0



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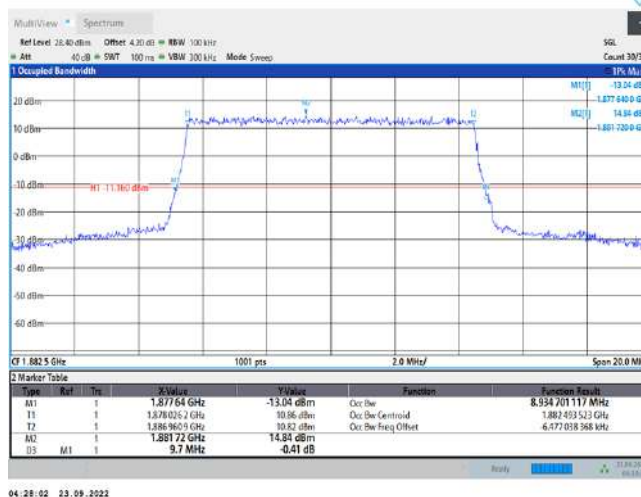


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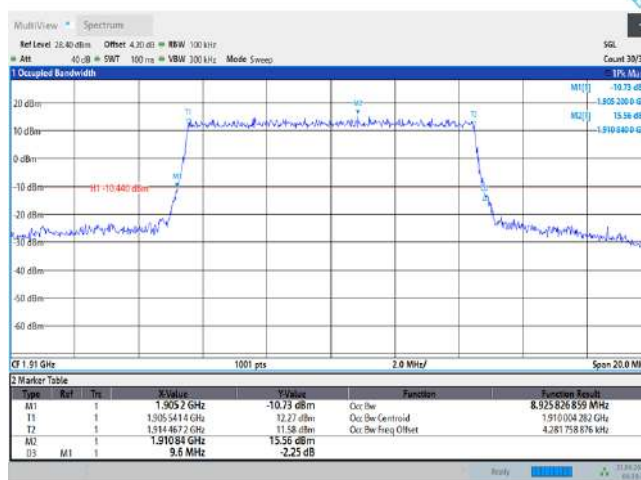
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04:28:02 23.09.2022

### Band25-10MHz-QPSK-26640-50RB#0



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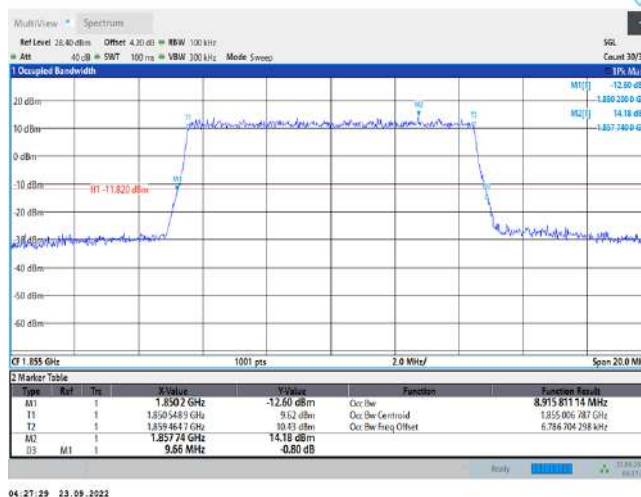
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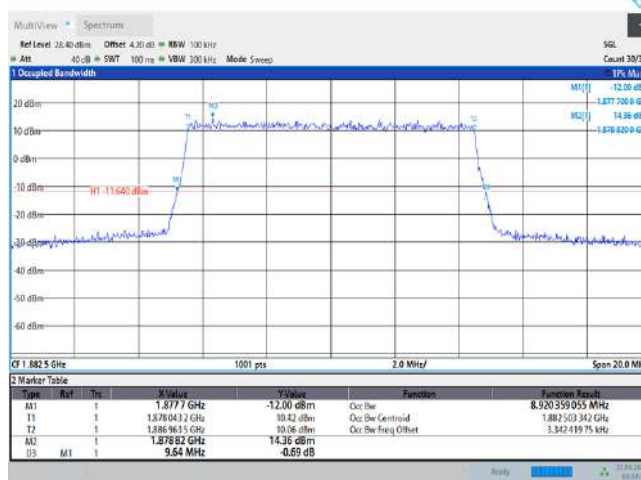
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### Band25-10MHz-16QAM-26090-50RB#0



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### Band25-10MHz-16QAM-26365-50RB#0



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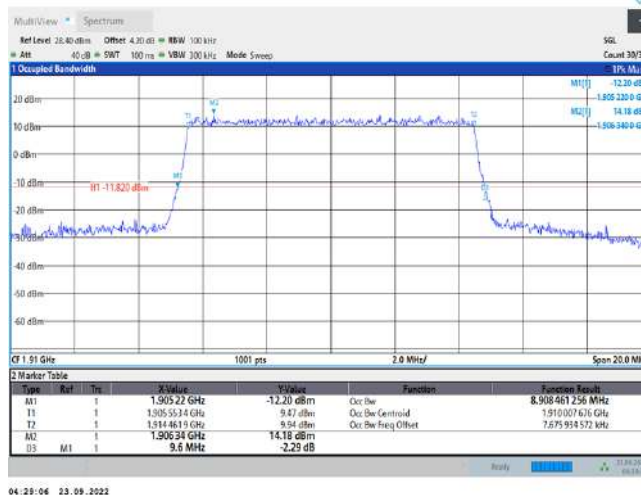
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### Band25-10MHz-16QAM-26640-50RB#0



04:29:06 23.09.2022



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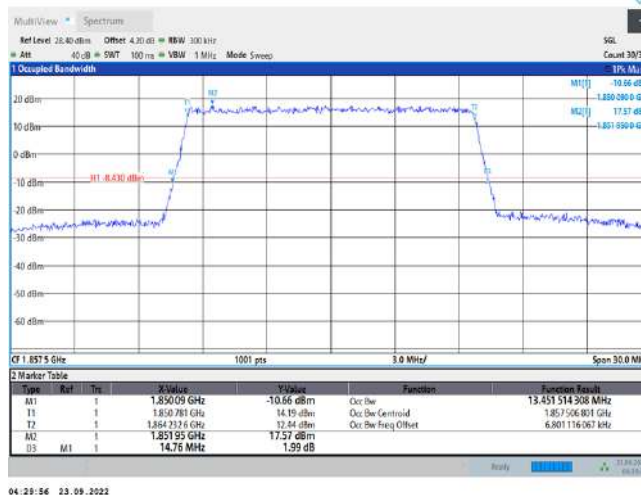
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### Band25-15MHz-QPSK-26115-75RB#0



04:29:56 23.09.2022

### Band25-15MHz-QPSK-26365-75RB#0



04:30:44 23.09.2022



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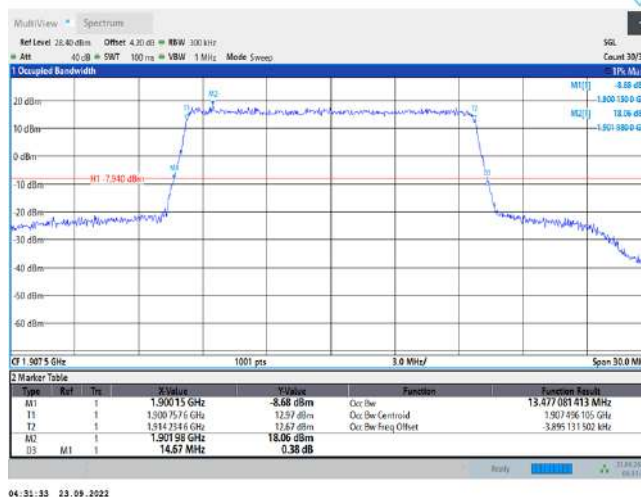


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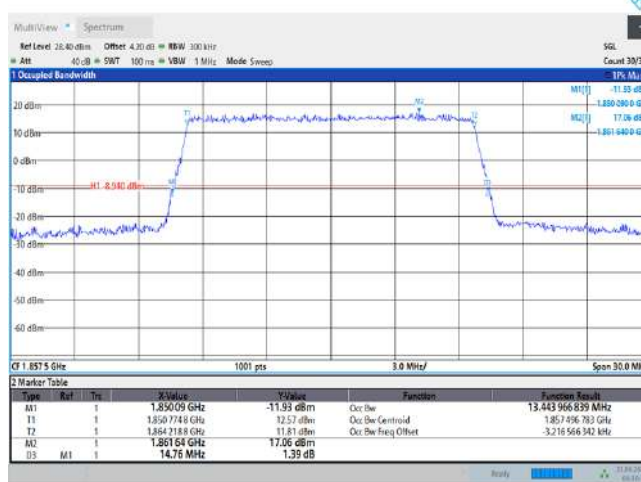
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### Band25-15MHz-QPSK-26615-75RB#0



04:31:33 23.09.2022

### Band25-15MHz-16QAM-26115-75RB#0



04:30:12 23.09.2022



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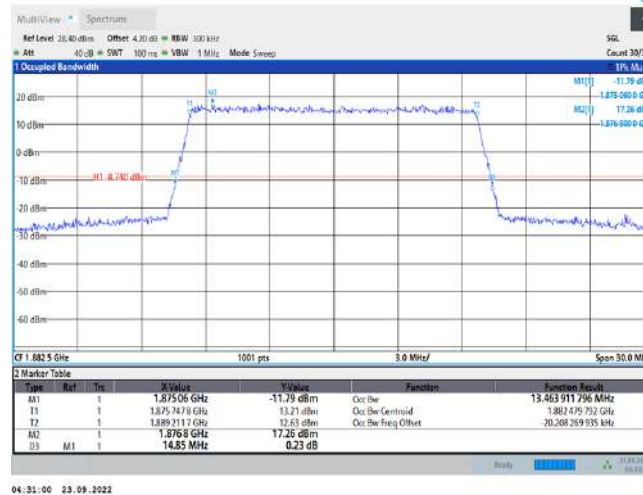
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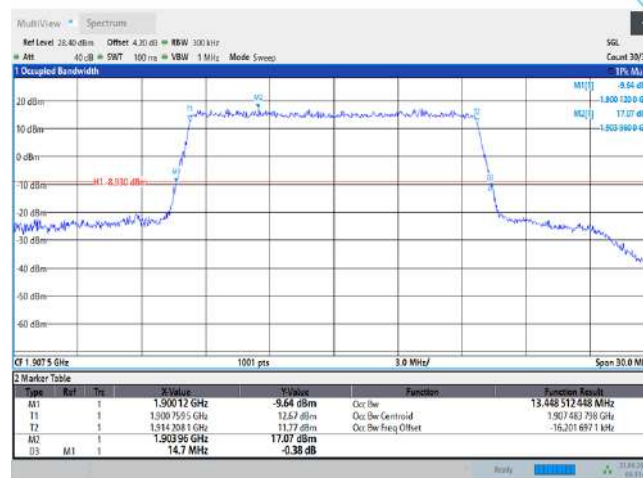
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### Band25-15MHz-16QAM-26365-75RB#0



04:31:00 23.09.2022

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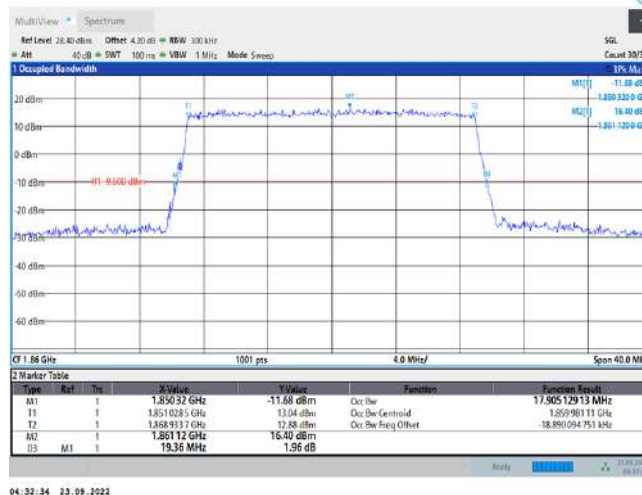
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### Band25-20MHz-QPSK-26140-100RB#0



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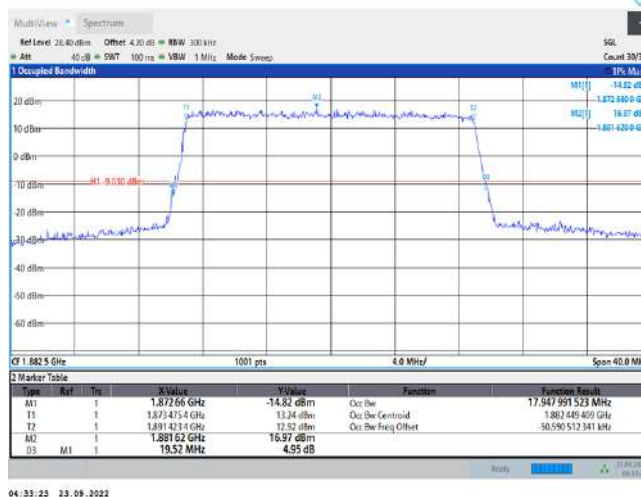
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04:33:23 23.09.2022

### Band25-20MHz-QPSK-26590-100RB#0



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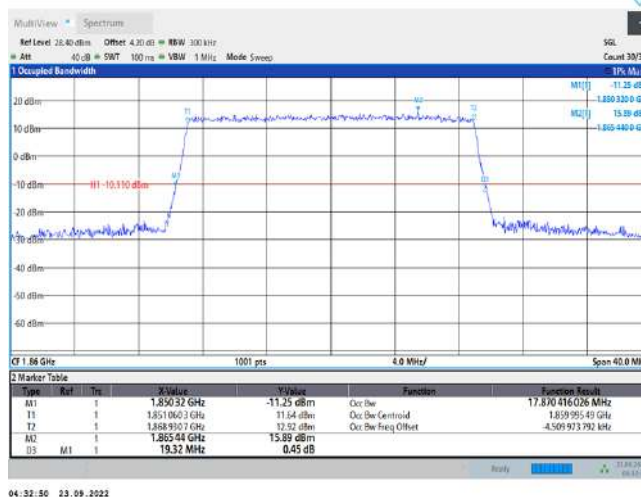


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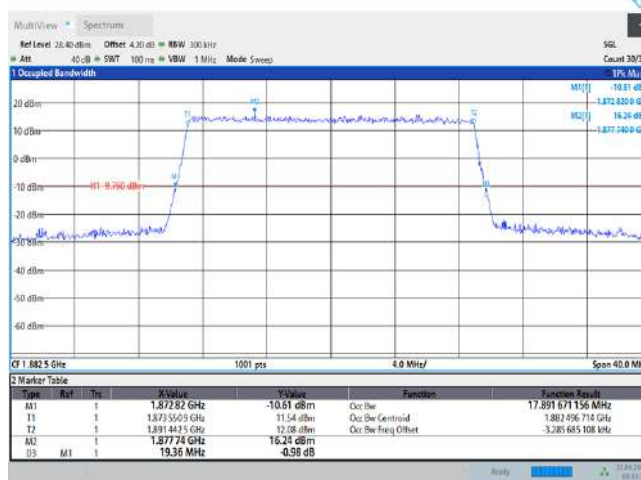
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### Band25-20MHz-16QAM-26140-100RB#0



04:32:50 23.09.2022

### Band25-20MHz-16QAM-26365-100RB#0



04:33:39 23.09.2022



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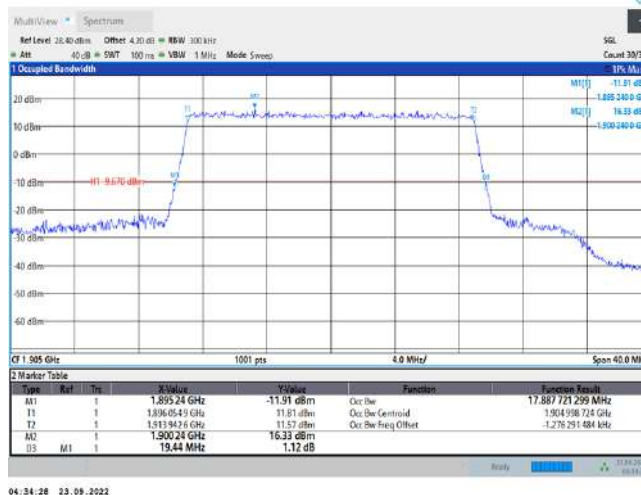
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### Band25-20MHz-16QAM-26590-100RB#0



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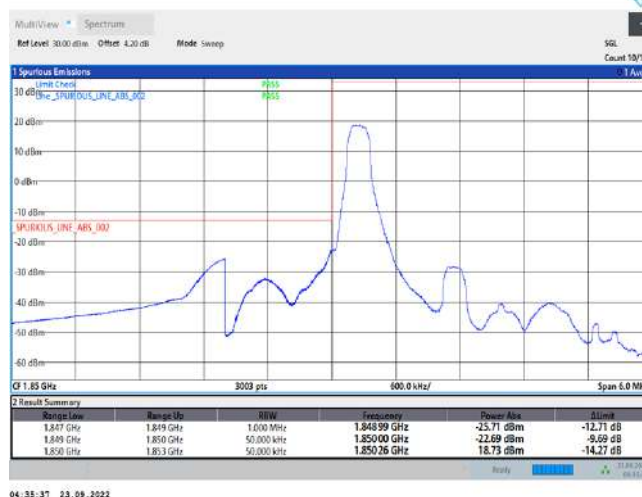
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### Band Edge

### Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0



Band25-1.4MHz-QPSK-26047-6RB#0



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Band25-1.4MHz-QPSK-26683-1RB#5



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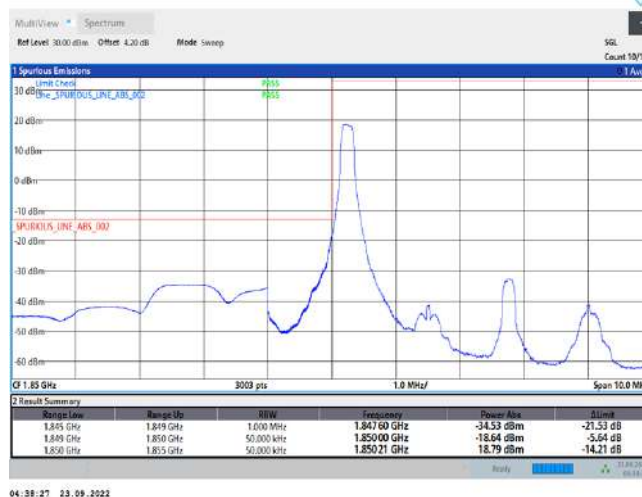


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### Band25-3MHz-QPSK-26055-15RB#0



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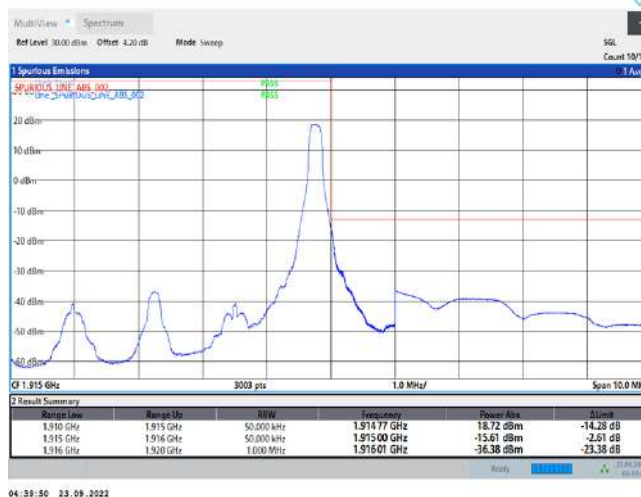
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### Band25-3MHz-QPSK-26675-15RB#0



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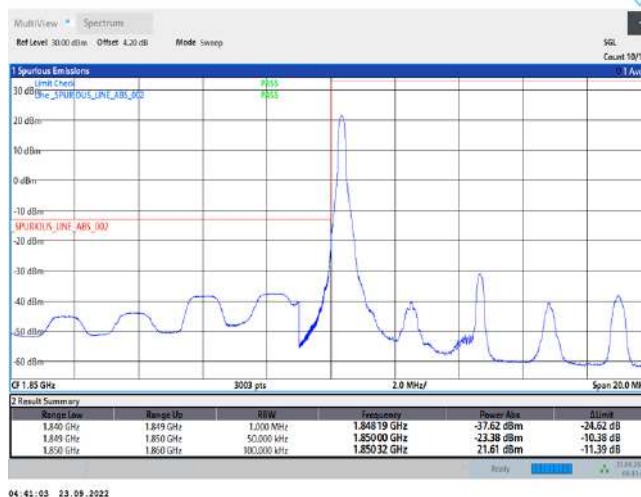
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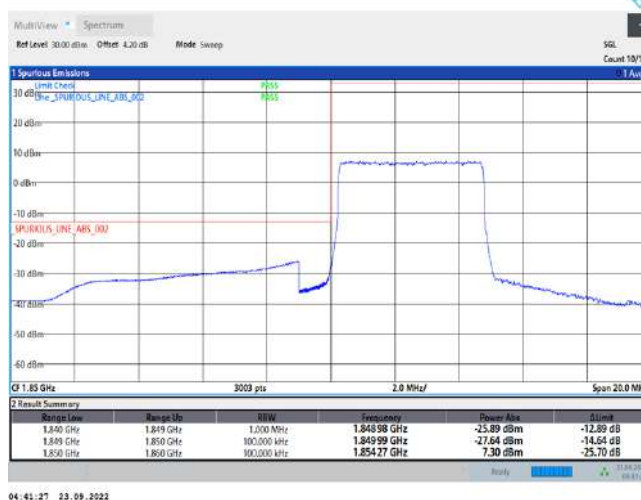
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### Band25-5MHz-QPSK-26065-1RB#0



### Band25-5MHz-QPSK-26065-25RB#0



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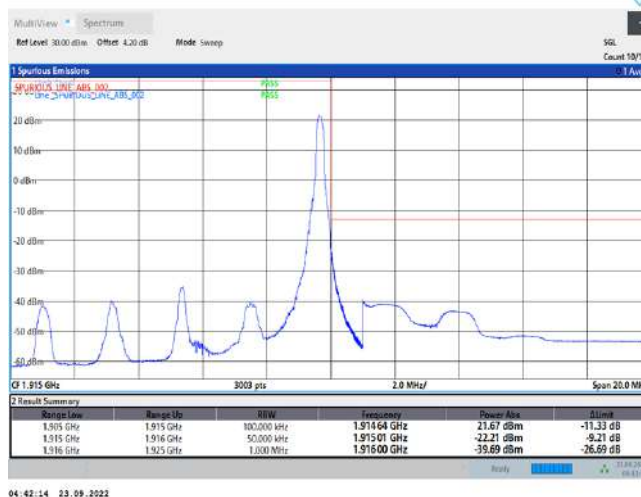
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### Band25-5MHz-QPSK-26665-1RB#24



### Band25-5MHz-QPSK-26665-25RB#0



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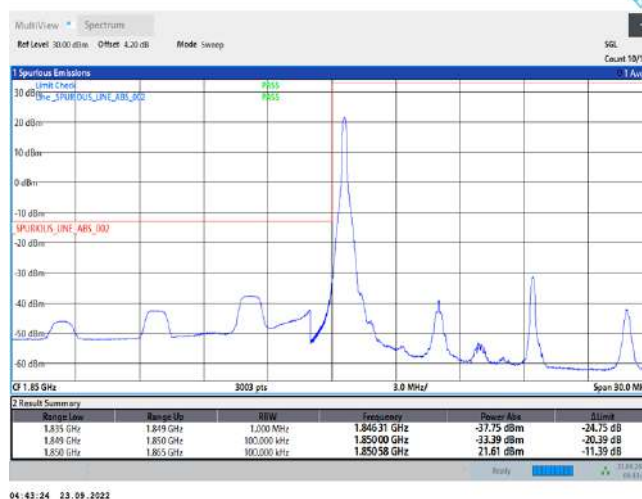


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### Band25-10MHz-QPSK-26090-1RB#0



### Band25-10MHz-QPSK-26090-50RB#0



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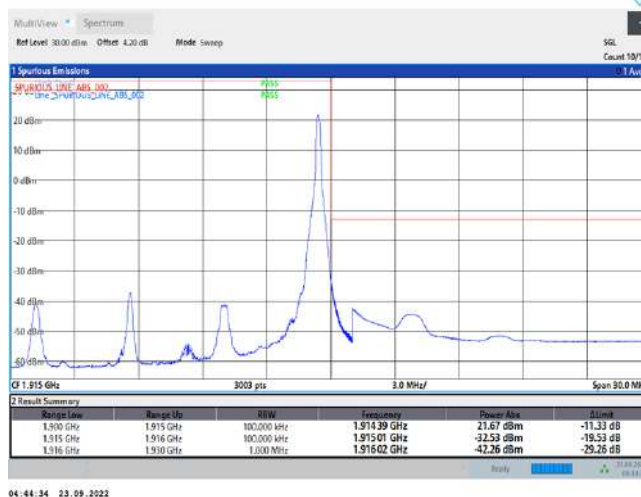
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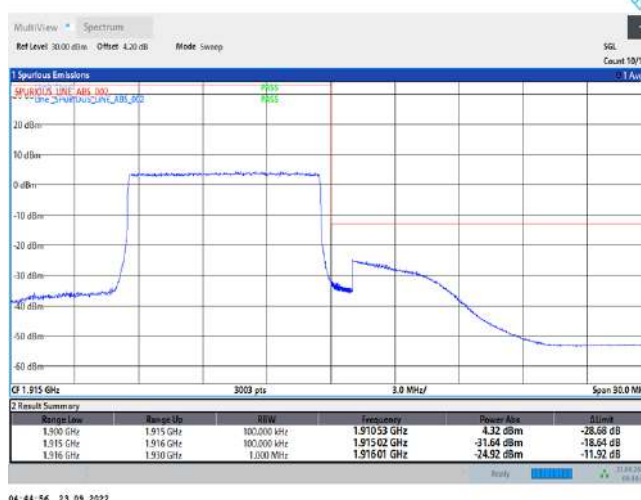
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### Band25-10MHz-QPSK-26640-1RB#49



### Band25-10MHz-QPSK-26640-50RB#0



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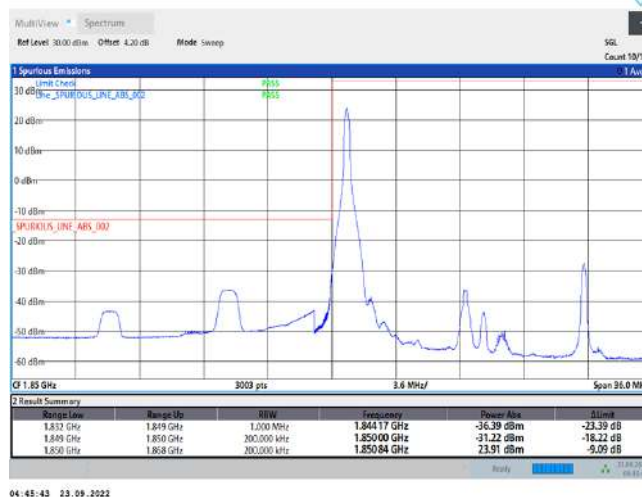
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### Band25-15MHz-QPSK-26115-1RB#0



04:48:43 23.09.2022

### Band25-15MHz-QPSK-26115-75RB#0



04:48:06 23.09.2022



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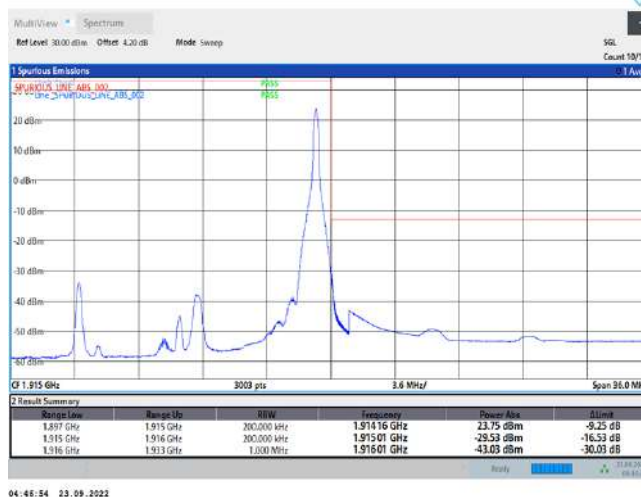
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### Band25-15MHz-QPSK-26615-1RB#74



### Band25-15MHz-QPSK-26615-75RB#0



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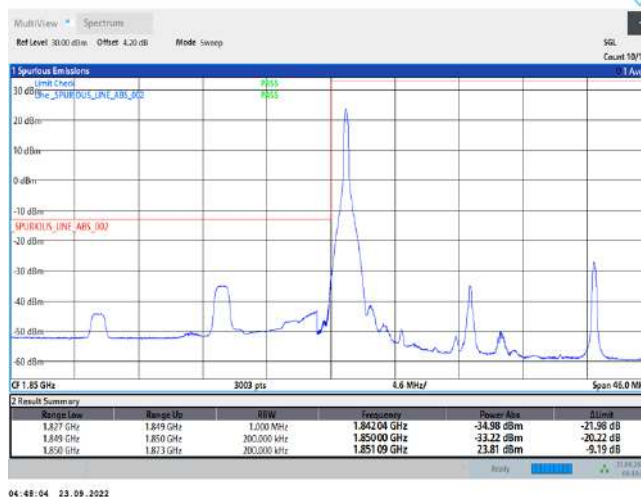


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### Band25-20MHz-QPSK-26140-1RB#0



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### Band25-20MHz-QPSK-26140-100RB#0



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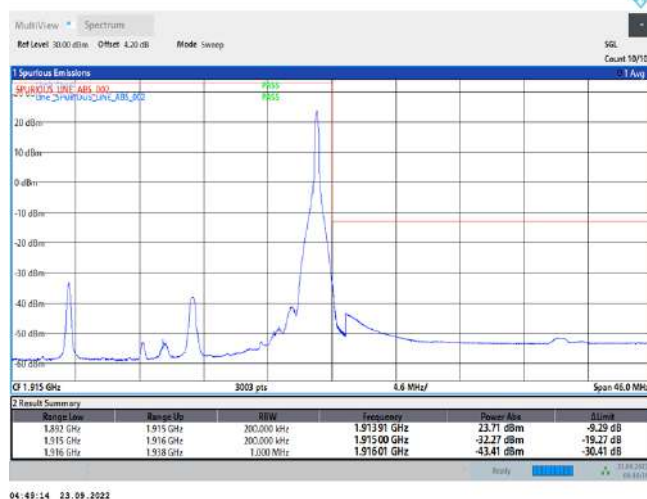
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Band25-20MHz-QPSK-26590-1RB#99



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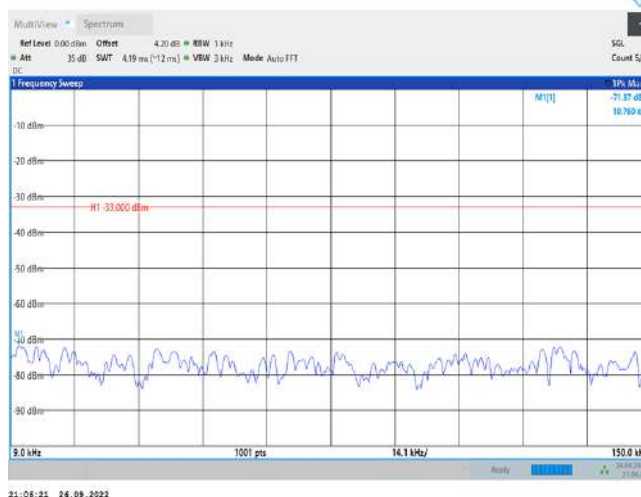
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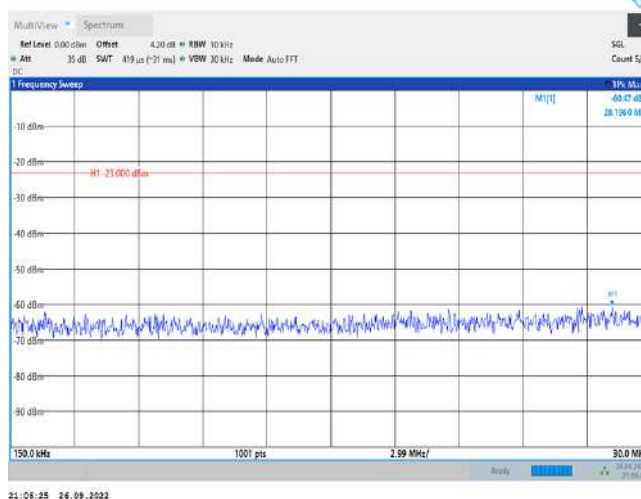
### Conducted Spurious Emission

#### Test Graphs

Band25-20MHz-QPSK-26140-1RB#0-Range1:0.009~0.15MHz



Band25-20MHz-QPSK-26140-1RB#0-Range2:0.15~30MHz



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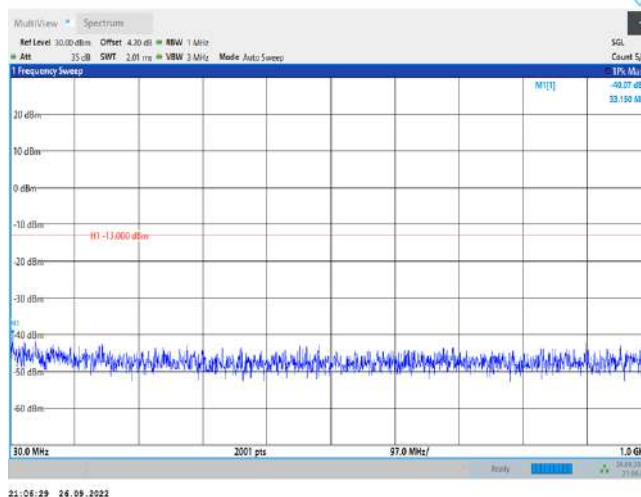
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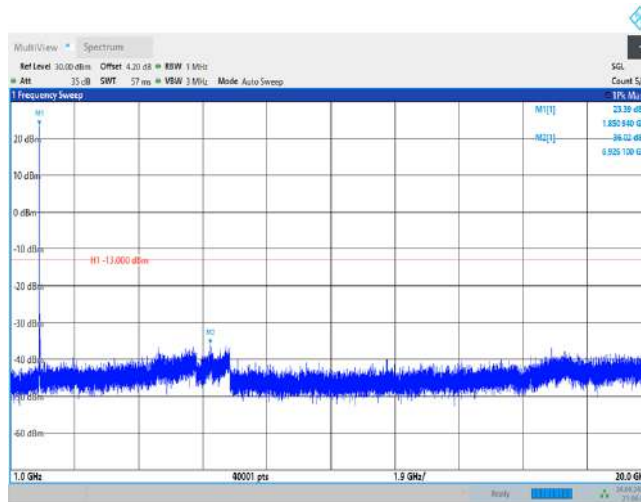
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### Band25-20MHz-QPSK-26140-1RB#0-Range3:30~1000MHz



21:08:29 24.09.2022

### Band25-20MHz-QPSK-26140-1RB#0-Range4:1000~20000MHz



21:08:34 24.09.2022



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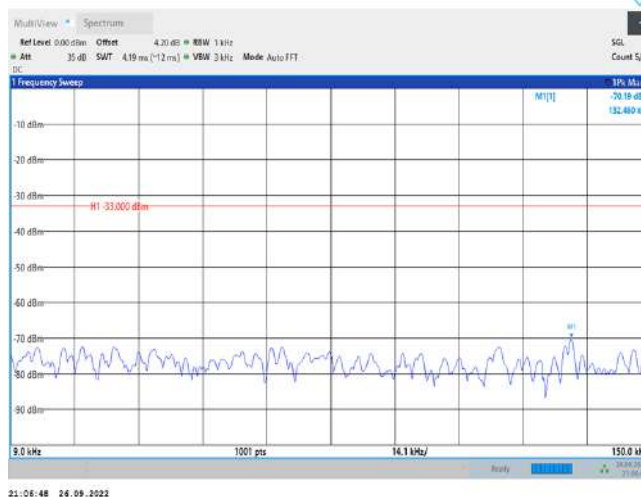


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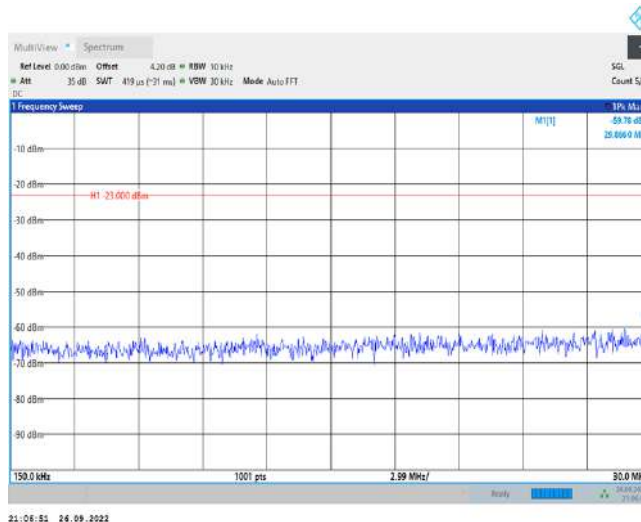
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### Band25-20MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



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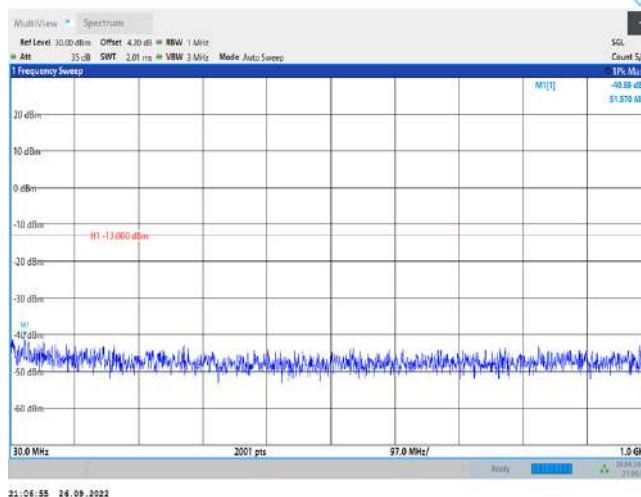
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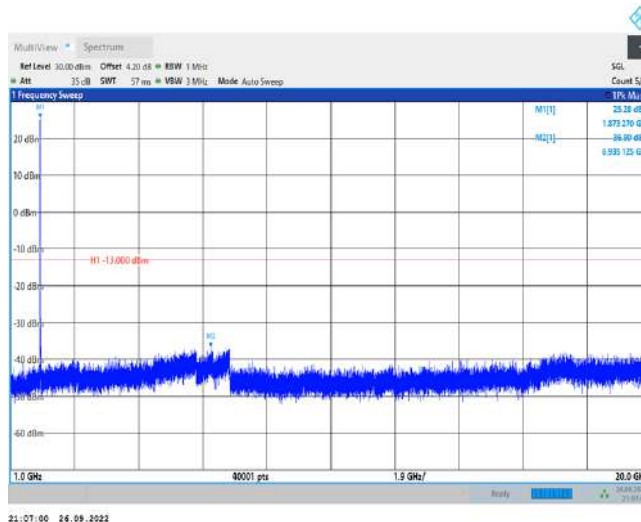
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### Band25-20MHz-QPSK-26365-1RB#0-Range4:1000~20000MHz



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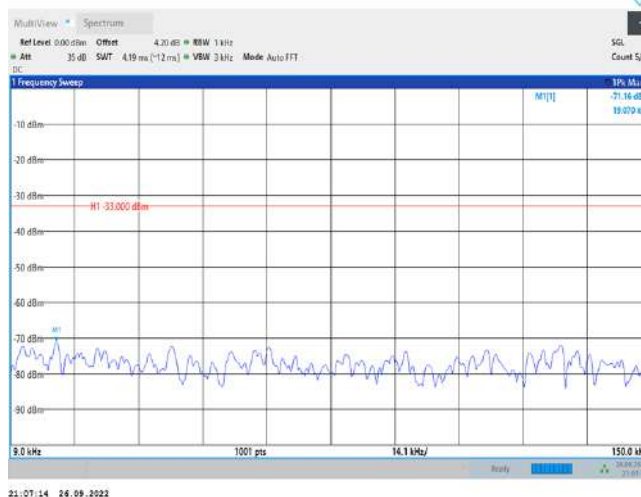
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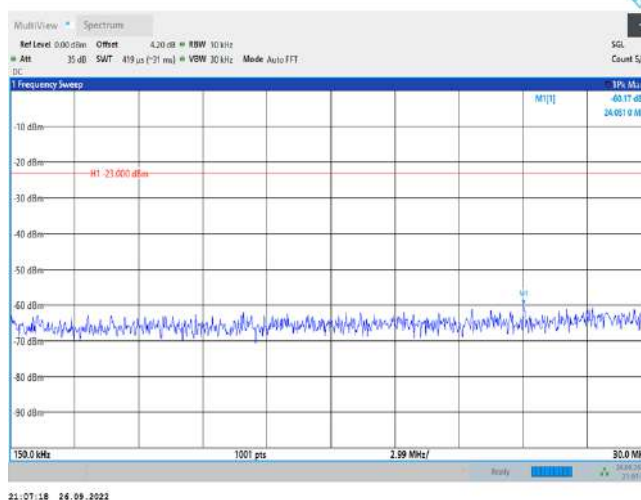
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### Band25-20MHz-QPSK-26590-1RB#0-Range1:0.009~0.15MHz



### Band25-20MHz-QPSK-26590-1RB#0-Range2:0.15~30MHz



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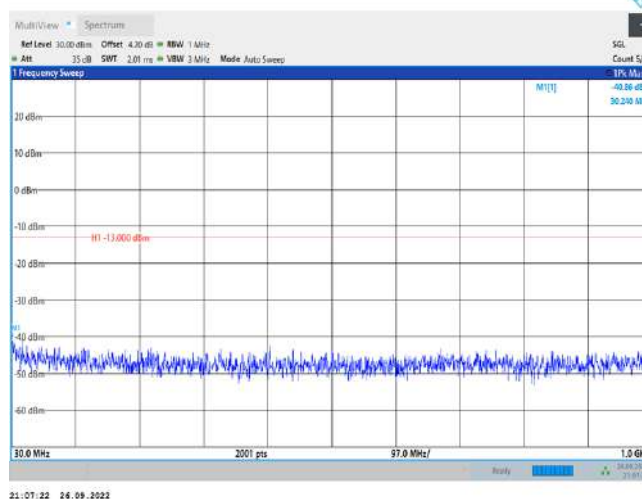
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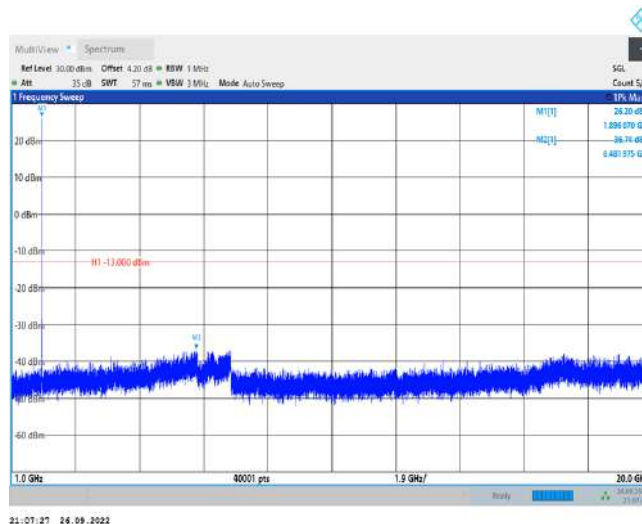
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### Band25-20MHz-QPSK-26590-1RB#0-Range3:30~1000MHz



### Band25-20MHz-QPSK-26590-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band25\_ TM1**
**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3702            | 59.27          | -45.51      | 29.98    | -51.52      | -13.00      | 38.52       | 258         | 343       | Horizontal |
| 2               | 5553.2700       | 46.84          | -45.15      | 32.97    | -60.60      | -13.00      | 47.60       | 148         | 60        | Horizontal |
| 3               | 7404.3600       | 49.72          | -43.40      | 36.49    | -52.45      | -13.00      | 39.45       | 195         | 180       | Horizontal |
| 4               | 9255.4500       | 36.53          | -40.23      | 38.38    | -60.58      | -13.00      | 47.58       | 132         | 164       | Horizontal |
| 5               | 11106.5400      | 32.16          | -37.93      | 39.09    | -61.94      | -13.00      | 48.94       | 166         | 180       | Horizontal |
| 6               | 12957.6300      | 33.77          | -37.24      | 39.79    | -58.94      | -13.00      | 45.94       | 144         | 120       | 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               | 3702            | 54.92          | -45.51      | 29.98    | -55.87      | -13.00      | 42.87       | 225         | 194       | Vertical |
| 2               | 5553.2700       | 49.51          | -45.15      | 32.97    | -57.93      | -13.00      | 44.93       | 145         | 104       | Vertical |
| 3               | 7404.3600       | 48.61          | -43.40      | 36.49    | -53.56      | -13.00      | 40.56       | 163         | 104       | Vertical |
| 4               | 9255.4500       | 37.31          | -40.23      | 38.38    | -59.80      | -13.00      | 46.80       | 253         | 3         | Vertical |
| 5               | 11106.5400      | 32.52          | -37.93      | 39.09    | -61.58      | -13.00      | 48.58       | 132         | 13        | Vertical |
| 6               | 12957.6300      | 32.09          | -37.24      | 39.79    | -60.62      | -13.00      | 47.62       | 162         | 13        | Vertical |



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**Test Band = LTE Band25\_ 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               | 3742.1800       | 55.40          | -45.68      | 30.12    | -55.42      | -13.00      | 42.42       | 199         | 313       | Horizontal |
| 2               | 5613.2700       | 46.62          | -45.04      | 33.07    | -60.61      | -13.00      | 47.61       | 145         | 284       | Horizontal |
| 3               | 7484.3600       | 45.22          | -43.18      | 36.45    | -56.77      | -13.00      | 43.77       | 126         | 208       | Horizontal |
| 4               | 9355.4500       | 38.04          | -40.00      | 38.46    | -58.77      | -13.00      | 45.77       | 135         | 360       | Horizontal |
| 5               | 11226.5400      | 34.81          | -37.40      | 39.11    | -58.74      | -13.00      | 45.74       | 128         | 208       | Horizontal |
| 6               | 13097.6300      | 29.80          | -37.01      | 39.87    | -62.59      | -13.00      | 49.59       | 195         | 148       | 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               | 3742.1800       | 55.96          | -45.68      | 30.12    | -54.86      | -13.00      | 41.86       | 235         | 331       | Vertical |
| 2               | 5613.2700       | 48.66          | -45.04      | 33.07    | -58.57      | -13.00      | 45.57       | 145         | 240       | Vertical |
| 3               | 7484.3600       | 45.01          | -43.18      | 36.45    | -56.98      | -13.00      | 43.98       | 126         | 105       | Vertical |
| 4               | 9355.4500       | 38.46          | -40.00      | 38.46    | -58.35      | -13.00      | 45.35       | 122         | 14        | Vertical |
| 5               | 11226.5400      | 34.08          | -37.40      | 39.11    | -59.47      | -13.00      | 46.47       | 198         | 105       | Vertical |
| 6               | 13097.6300      | 29.98          | -37.01      | 39.87    | -62.41      | -13.00      | 49.41       | 144         | 271       | Vertical |



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**Test Band = LTE Band25\_ 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               | 3792.1800       | 53.92          | -45.89      | 30.30    | -56.93      | -13.00      | 43.93       | 210         | 298       | Horizontal |
| 2               | 5688.2700       | 46.79          | -44.87      | 33.34    | -60.00      | -13.00      | 47.00       | 125         | 103       | Horizontal |
| 3               | 7584.3600       | 45.10          | -42.96      | 36.40    | -56.72      | -13.00      | 43.72       | 145         | 4         | Horizontal |
| 4               | 9480.4500       | 39.56          | -40.15      | 38.47    | -57.38      | -13.00      | 44.38       | 139         | 351       | Horizontal |
| 5               | 11376.5400      | 33.11          | -37.38      | 39.11    | -60.42      | -13.00      | 47.42       | 213         | 44        | Horizontal |
| 6               | 13272.6300      | 30.09          | -36.97      | 40.00    | -62.13      | -13.00      | 49.13       | 254         | 360       | 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               | 3792            | 55.45          | -45.89      | 30.30    | -55.40      | -13.00      | 42.40       | 286         | 360       | Vertical |
| 2               | 5688.2700       | 48.23          | -44.87      | 33.34    | -58.56      | -13.00      | 45.56       | 145         | 59        | Vertical |
| 3               | 7584.3600       | 46.49          | -42.96      | 36.40    | -55.33      | -13.00      | 42.33       | 129         | 360       | Vertical |
| 4               | 9480.4500       | 40.83          | -40.15      | 38.47    | -56.11      | -13.00      | 43.11       | 153         | 134       | Vertical |
| 5               | 11376.5400      | 33.56          | -37.38      | 39.11    | -59.97      | -13.00      | 46.97       | 218         | 282       | Vertical |
| 6               | 13272.6300      | 29.54          | -36.97      | 40.00    | -62.68      | -13.00      | 49.68       | 196         | 28        | 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

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | VL            | NT               | -7.20          | -0.003825       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | VN            | NT               | -1.40          | -0.000744       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | VH            | NT               | -10.50         | -0.005578       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | -30              | -12.20         | -0.006481       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | -20              | -3.40          | -0.001806       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | -10              | 2.80           | 0.001487        | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 0                | -6.50          | -0.003453       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 10               | 3.60           | 0.001912        | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 20               | -5.00          | -0.002656       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 30               | 2.70           | 0.001434        | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 40               | -5.20          | -0.002762       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0      | NV            | 50               | 1.60           | 0.000850        | PASS    |

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