



Report No.: SEWA2303000029RG01

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# Appendix B.12

## LTE Band 30



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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 |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#0            | 22.8        | 19.74     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#12           | 22.87       | 19.81     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#24           | 22.94       | 19.88     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 25RB#0           | 21.97       | 18.91     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#0            | 22.22       | 19.16     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#12           | 22.91       | 19.85     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#24           | 22.86       | 19.8      | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 25RB#0           | 21.95       | 18.89     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#0            | 22.46       | 19.4      | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#12           | 22.9        | 19.84     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#24           | 22.91       | 19.85     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 25RB#0           | 21.94       | 18.88     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#0            | 22.01       | 18.95     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#12           | 22.01       | 18.95     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#24           | 22.1        | 19.04     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 25RB#0           | 20.95       | 17.89     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#0            | 21.98       | 18.92     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#12           | 22.02       | 18.96     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#24           | 21.93       | 18.87     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 25RB#0           | 20.88       | 17.82     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#0            | 21.96       | 18.9      | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#12           | 21.94       | 18.88     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#24           | 21.96       | 18.9      | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 25RB#0           | 20.87       | 17.81     | 23.98      | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 1RB#0            | 21.15       | 18.09     | 23.98      | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 1RB#12           | 21.13       | 18.07     | 23.98      | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 1RB#24           | 21.13       | 18.07     | 23.98      | PASS    |



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|        |       |        |       |        |       |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band30 | 5MHz  | 64QAM  | 27685 | 25RB#0 | 19.88 | 16.82 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27710 | 1RB#0  | 21.04 | 17.98 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27710 | 1RB#12 | 21.04 | 17.98 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27710 | 1RB#24 | 20.94 | 17.88 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27710 | 25RB#0 | 19.88 | 16.82 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27735 | 1RB#0  | 21.1  | 18.04 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27735 | 1RB#12 | 21.08 | 18.02 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27735 | 1RB#24 | 21.04 | 17.98 | 23.98 | PASS |
| Band30 | 5MHz  | 64QAM  | 27735 | 25RB#0 | 19.83 | 16.77 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27685 | 1RB#0  | 18    | 14.94 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27685 | 1RB#12 | 18.03 | 14.97 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27685 | 1RB#24 | 18.09 | 15.03 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27685 | 25RB#0 | 17.96 | 14.9  | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27710 | 1RB#0  | 18.08 | 15.02 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27710 | 1RB#12 | 18.07 | 15.01 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27710 | 1RB#24 | 17.97 | 14.91 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27710 | 25RB#0 | 17.91 | 14.85 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27735 | 1RB#0  | 18.06 | 15    | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27735 | 1RB#12 | 17.87 | 14.81 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27735 | 1RB#24 | 18    | 14.94 | 23.98 | PASS |
| Band30 | 5MHz  | 256QAM | 27735 | 25RB#0 | 17.85 | 14.79 | 23.98 | PASS |
| Band30 | 10MHz | QPSK   | 27710 | 1RB#0  | 22.92 | 19.86 | 23.98 | PASS |
| Band30 | 10MHz | QPSK   | 27710 | 1RB#24 | 22.97 | 19.91 | 23.98 | PASS |
| Band30 | 10MHz | QPSK   | 27710 | 1RB#49 | 22.82 | 19.76 | 23.98 | PASS |
| Band30 | 10MHz | QPSK   | 27710 | 50RB#0 | 21.94 | 18.88 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM  | 27710 | 1RB#0  | 22.09 | 19.03 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM  | 27710 | 1RB#24 | 22.19 | 19.13 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM  | 27710 | 1RB#49 | 22.04 | 18.98 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM  | 27710 | 50RB#0 | 20.87 | 17.81 | 23.98 | PASS |
| Band30 | 10MHz | 64QAM  | 27710 | 1RB#0  | 21.13 | 18.07 | 23.98 | PASS |
| Band30 | 10MHz | 64QAM  | 27710 | 1RB#24 | 21.17 | 18.11 | 23.98 | PASS |
| Band30 | 10MHz | 64QAM  | 27710 | 1RB#49 | 21.06 | 18    | 23.98 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band30 | 10MHz | 64QAM  | 27710 | 50RB#0 | 19.92 | 16.86 | 23.98 | PASS |
| Band30 | 10MHz | 256QAM | 27710 | 1RB#0  | 17.99 | 14.93 | 23.98 | PASS |
| Band30 | 10MHz | 256QAM | 27710 | 1RB#24 | 18.1  | 15.04 | 23.98 | PASS |
| Band30 | 10MHz | 256QAM | 27710 | 1RB#49 | 18.05 | 14.99 | 23.98 | PASS |
| Band30 | 10MHz | 256QAM | 27710 | 50RB#0 | 17.93 | 14.87 | 23.98 | PASS |



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## EIRP Density Result

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm/5M) | EIRP(dBm/5M) | Limit(dBm/5M) | Verdict |
|--------|-----------|------------|---------|------------------|----------------|--------------|---------------|---------|
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#0            | 21.81          | 18.75        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#12           | 21.90          | 18.84        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#24           | 21.98          | 18.92        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#0            | 22.03          | 18.97        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#12           | 21.99          | 18.93        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#24           | 21.94          | 18.88        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#0            | 22.09          | 19.03        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#12           | 22.09          | 19.03        | 23.98         | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#24           | 21.89          | 18.83        | 23.98         | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#0            | 21.99          | 18.93        | 23.98         | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#12           | 21.88          | 18.82        | 23.98         | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#24           | 21.92          | 18.86        | 23.98         | PASS    |



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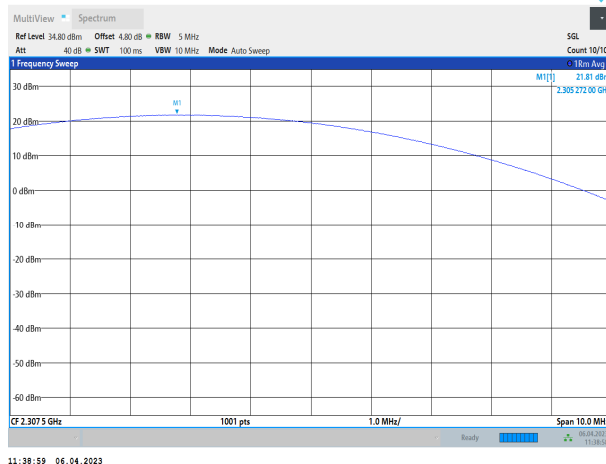
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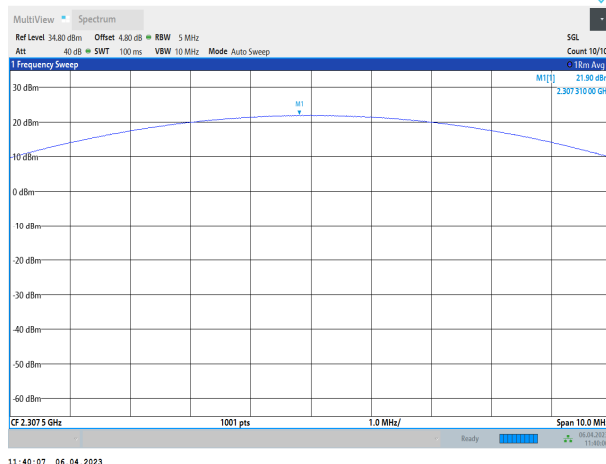
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### Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-1RB#12



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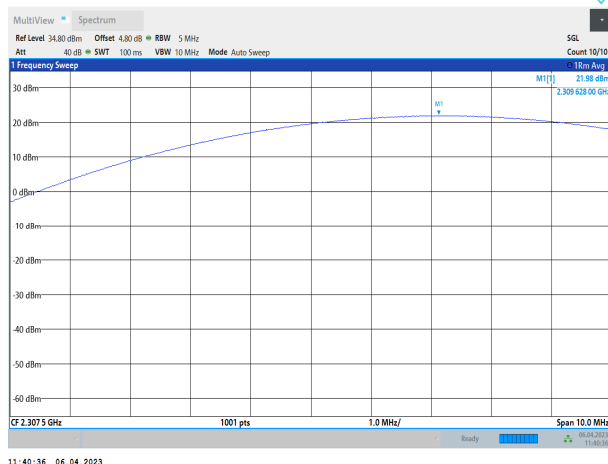


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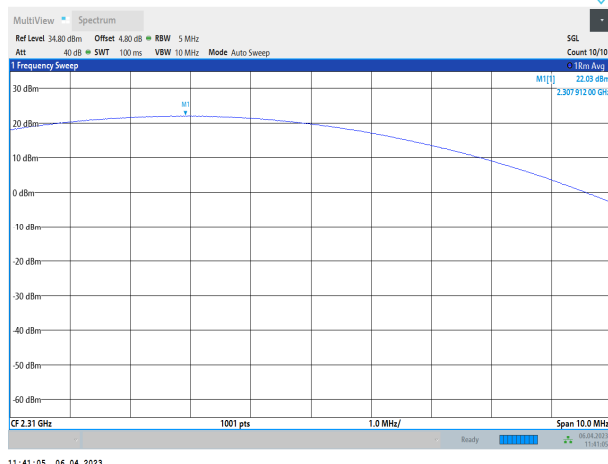
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### Band30-5MHz-QPSK-27685-1RB#24



### Band30-5MHz-QPSK -27710-1RB#0



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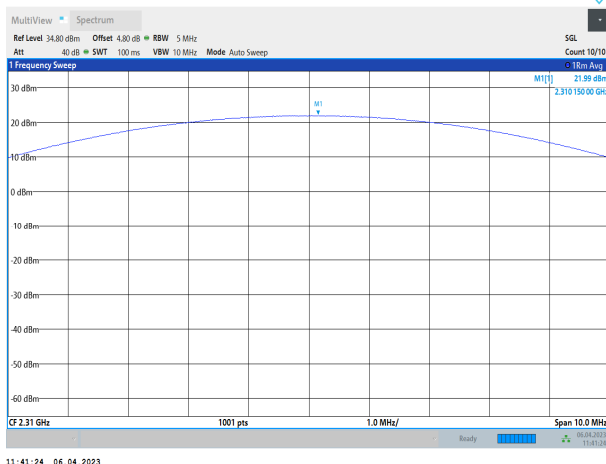
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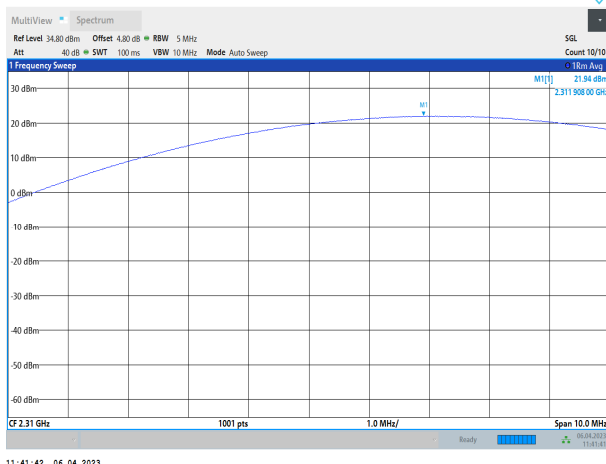
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### Band30-5MHz-QPSK -27710-1RB#12



### Band30-5MHz-QPSK -27710-1RB#24



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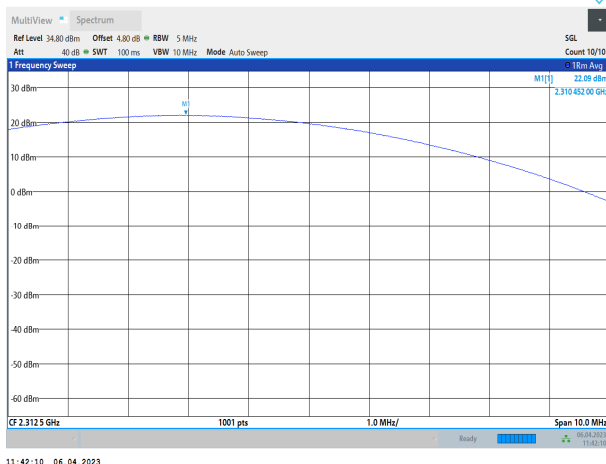


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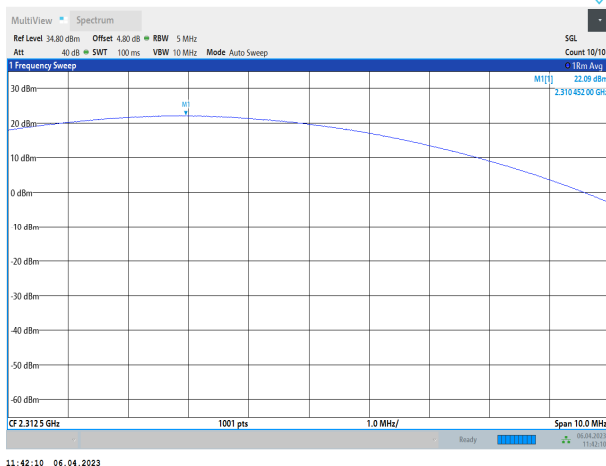
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### Band30-5MHz-QPSK -27735-1RB#0



### Band30-5MHz-QPSK-27735-1RB#12



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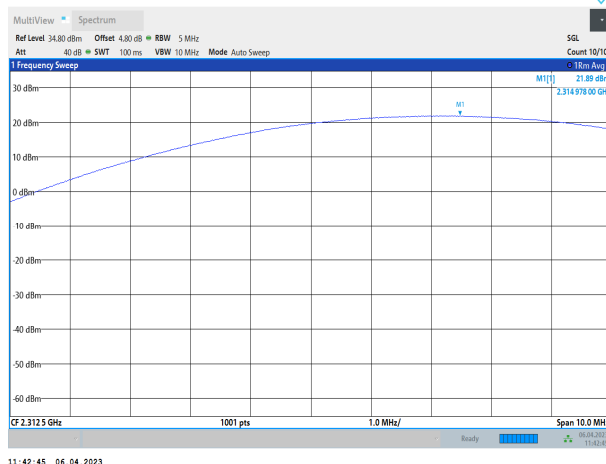
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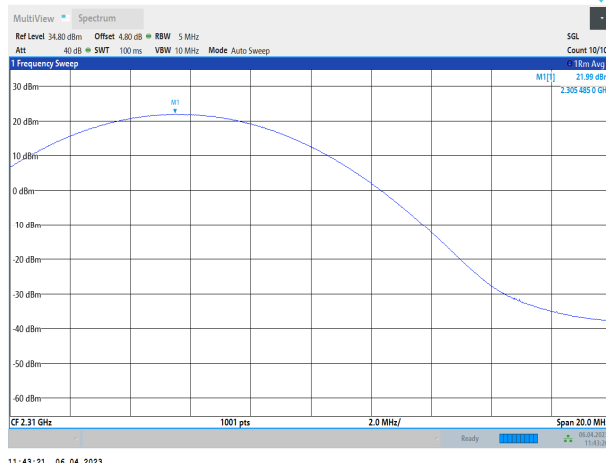
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### Band30-5MHz-QPSK -27735-1RB#24



### Band30-10MHz-QPSK-27710-1RB#0



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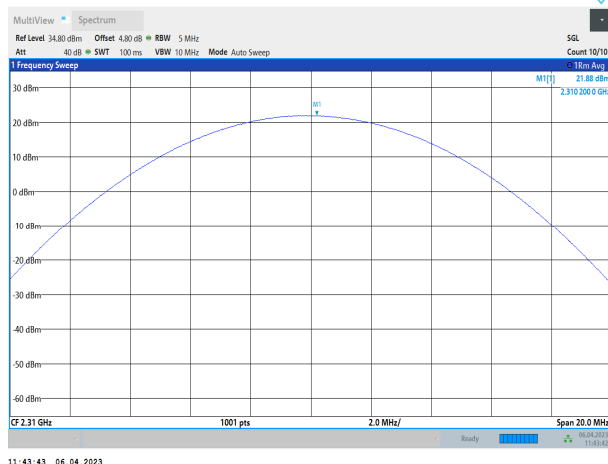
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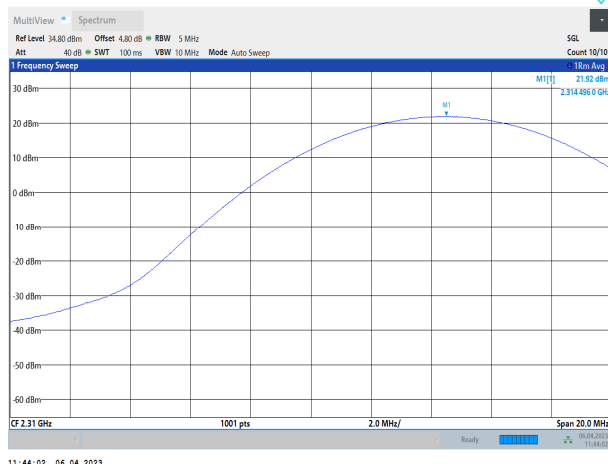
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### Band30-10MHz-QPSK-27710-1RB#24



### Band30-10MHz-QPSK-27710-1RB#49



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0           | 5.48       | 13        | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 50RB#0           | 6.26       | 13        | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 50RB#0           | 6.62       | 13        | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 50RB#0           | 6.60       | 13        | PASS    |



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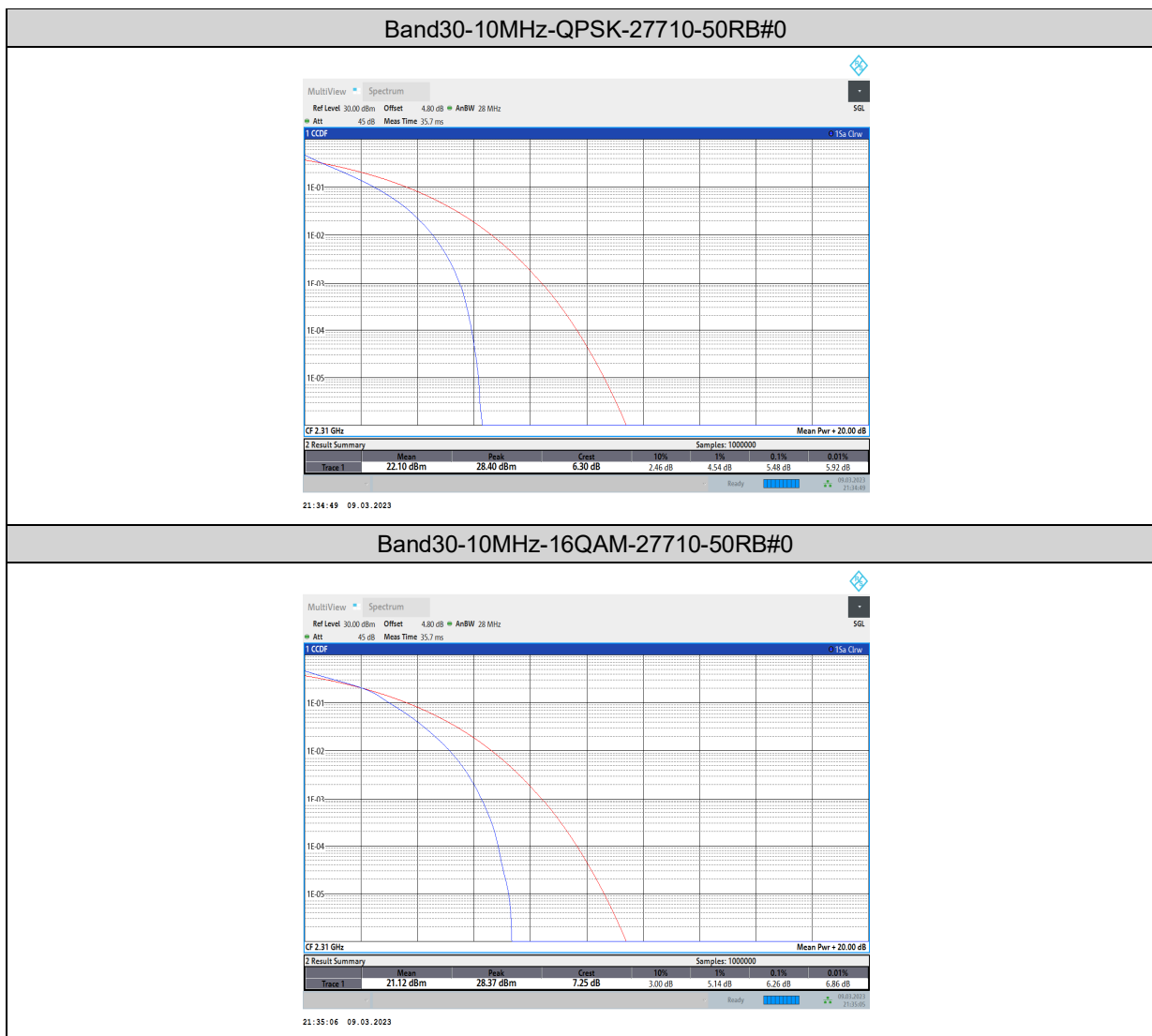
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### Test Graphs



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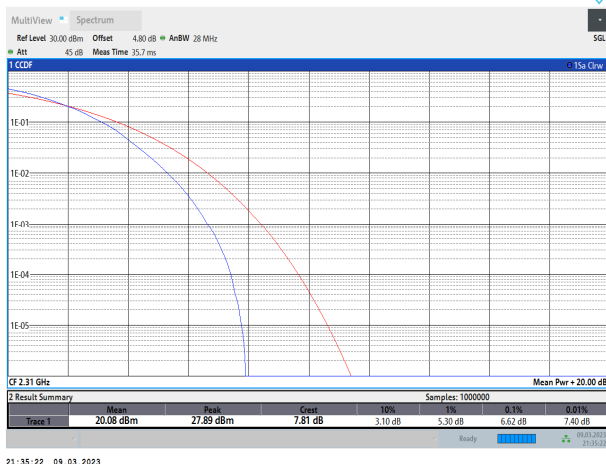
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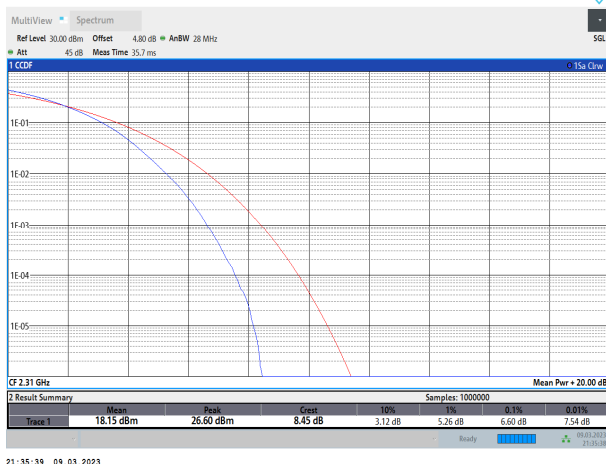
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### Band30-10MHz-64QAM-27710-50RB#0



21:35:22 09.03.2023

### Band30-10MHz-256QAM-27710-50RB#0



21:35:39 09.03.2023



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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0           | PASS   | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 50RB#0           | PASS   | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 50RB#0           | PASS   | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 50RB#0           | PASS   | PASS    |



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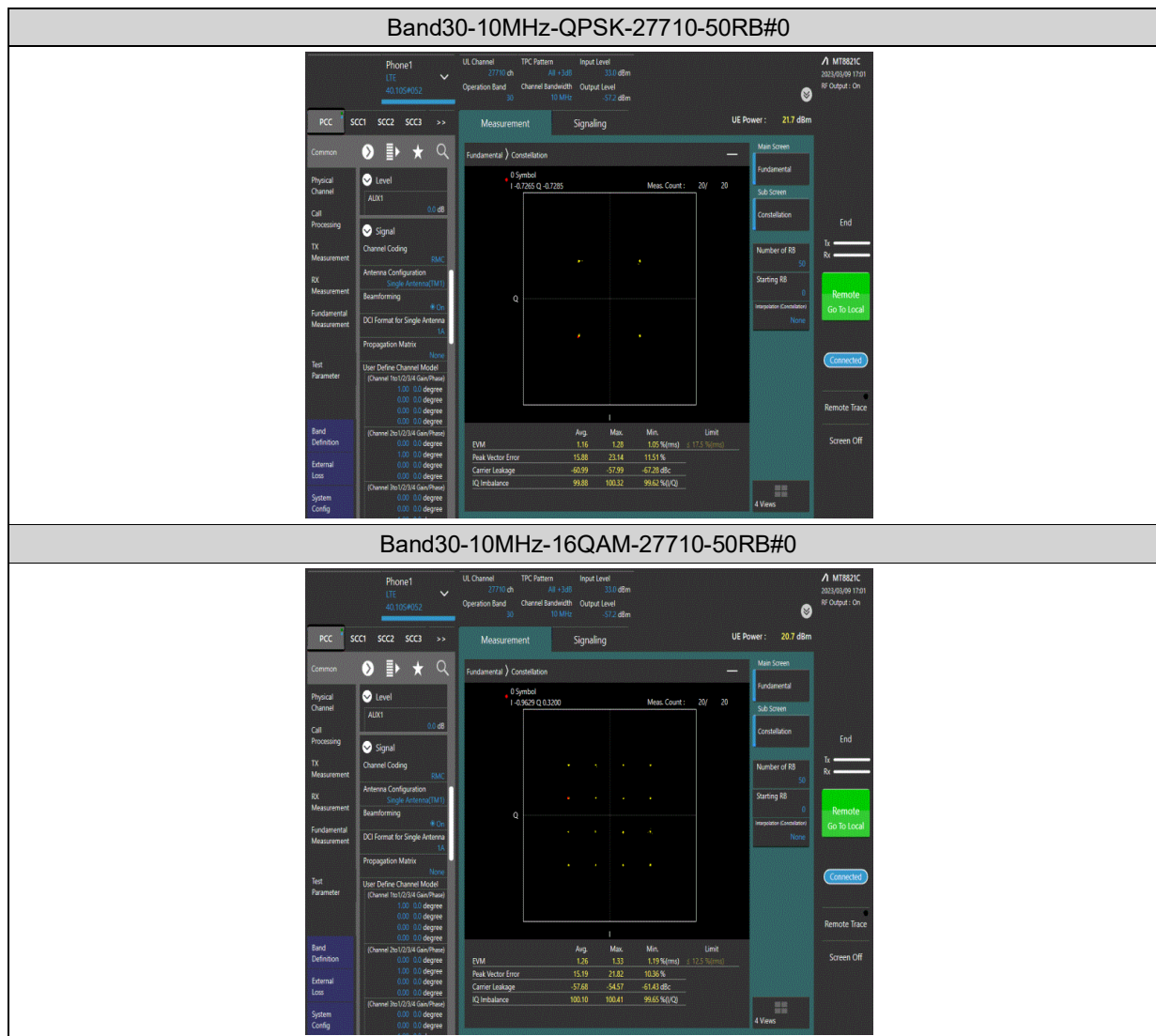


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### Test Graphs



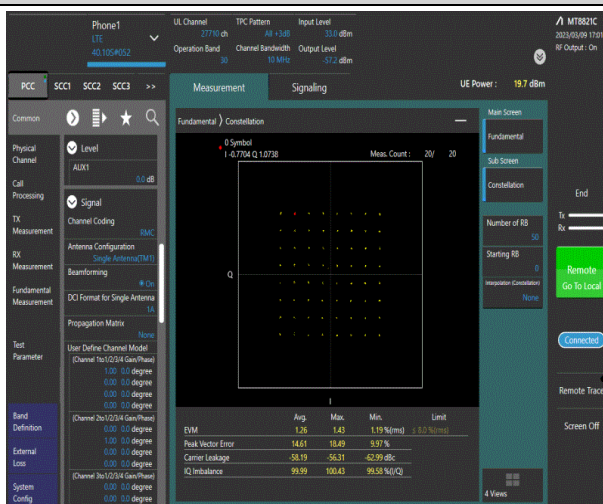
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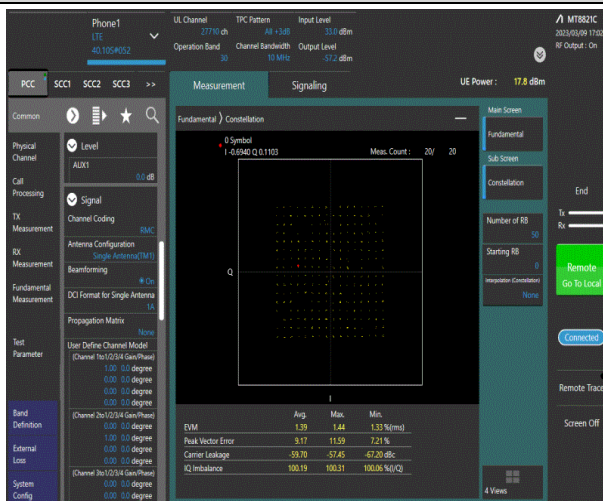
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Band30-10MHz-64QAM-27710-50RB#0



Band30-10MHz-256QAM-27710-50RB#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 |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band30 | 5MHz      | QPSK       | 27685   | 25RB#0           | 4.49                     | 4.78                 | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 25RB#0           | 4.491                    | 4.77                 | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 25RB#0           | 4.487                    | 4.76                 | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 25RB#0           | 4.497                    | 4.77                 | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 25RB#0           | 4.499                    | 4.78                 | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 25RB#0           | 4.498                    | 4.77                 | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 25RB#0           | 4.502                    | 4.76                 | PASS    |
| Band30 | 5MHz      | 64QAM      | 27710   | 25RB#0           | 4.498                    | 4.76                 | PASS    |
| Band30 | 5MHz      | 64QAM      | 27735   | 25RB#0           | 4.498                    | 4.78                 | PASS    |
| Band30 | 5MHz      | 256QAM     | 27685   | 25RB#0           | 4.499                    | 4.77                 | PASS    |
| Band30 | 5MHz      | 256QAM     | 27710   | 25RB#0           | 4.499                    | 4.77                 | PASS    |
| Band30 | 5MHz      | 256QAM     | 27735   | 25RB#0           | 4.495                    | 4.78                 | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0           | 8.976                    | 9.53                 | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 50RB#0           | 8.976                    | 9.53                 | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 50RB#0           | 8.988                    | 9.57                 | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 50RB#0           | 8.976                    | 9.53                 | PASS    |



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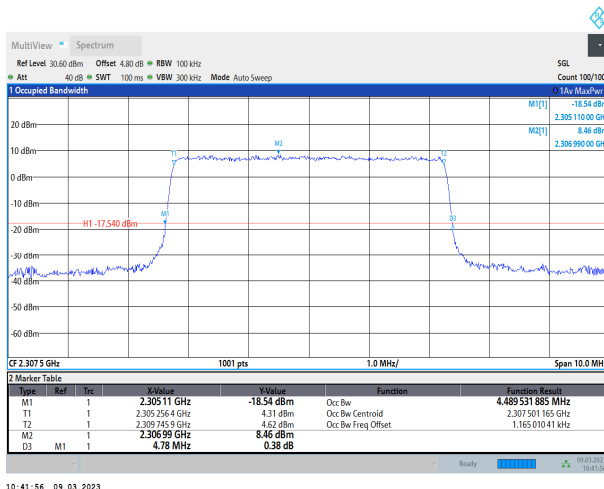
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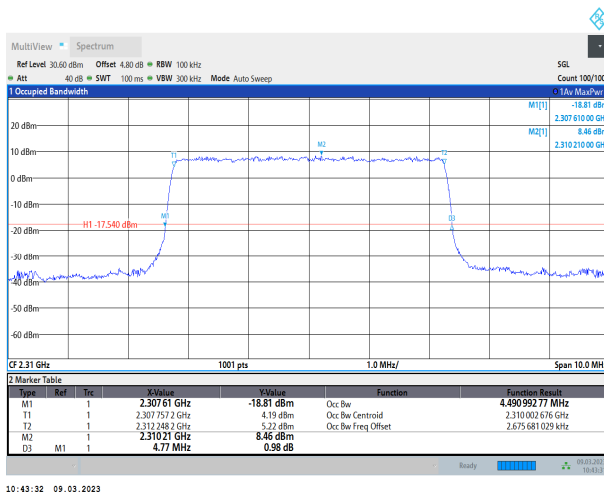
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## Test Graphs

## Band30-5MHz-QPSK-27685-25RB#0



## Band30-5MHz-QPSK-27710-25RB#0

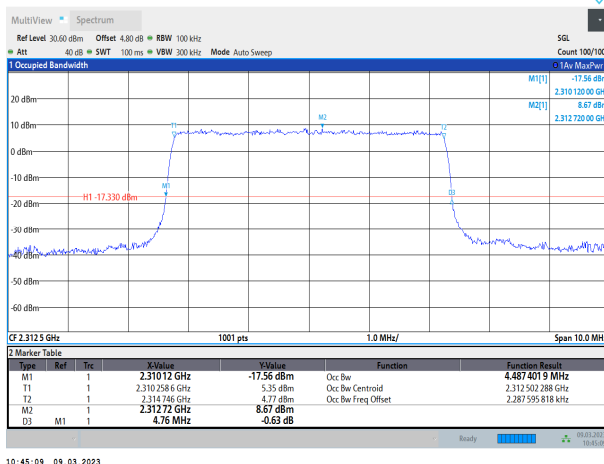


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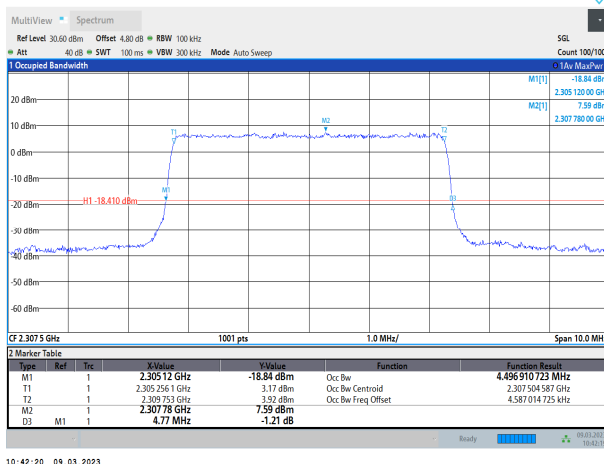
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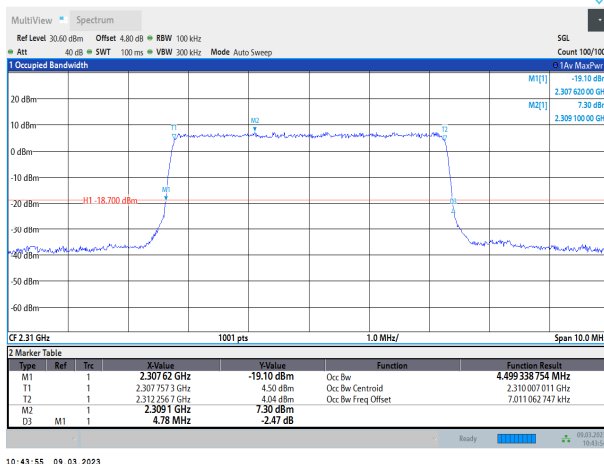


Report No.: SEWA2303000029RG01

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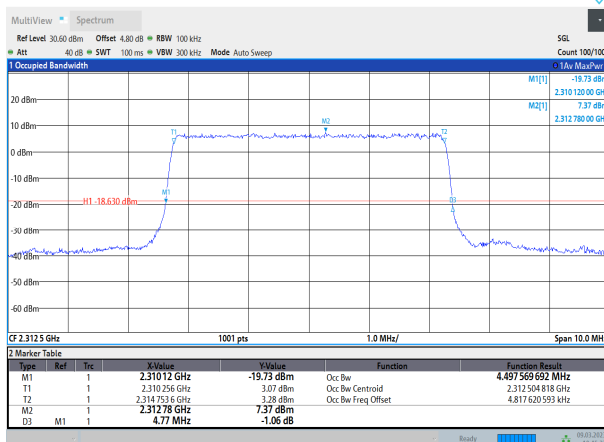
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### Band30-5MHz-16QAM-27710-25RB#0



10:43:55 09.03.2023

### Band30-5MHz-16QAM-27735-25RB#0



10:45:33 09.03.2023



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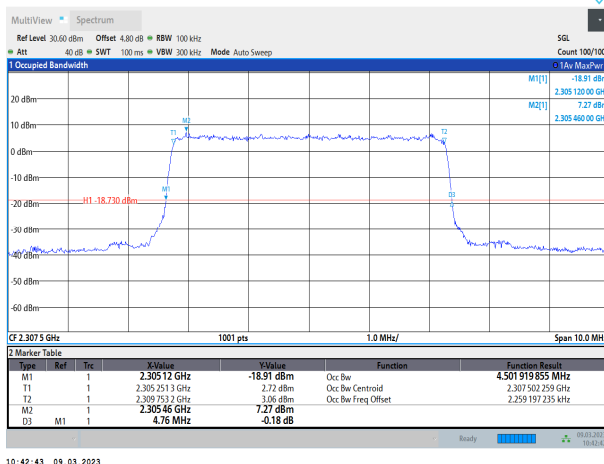
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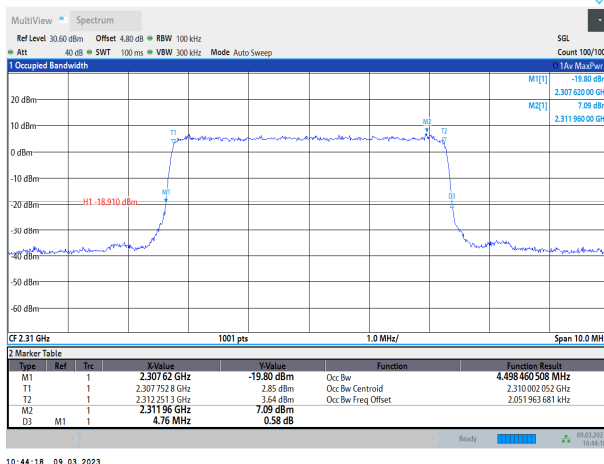
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### Band30-5MHz-64QAM-27685-25RB#0



### Band30-5MHz-64QAM-27710-25RB#0



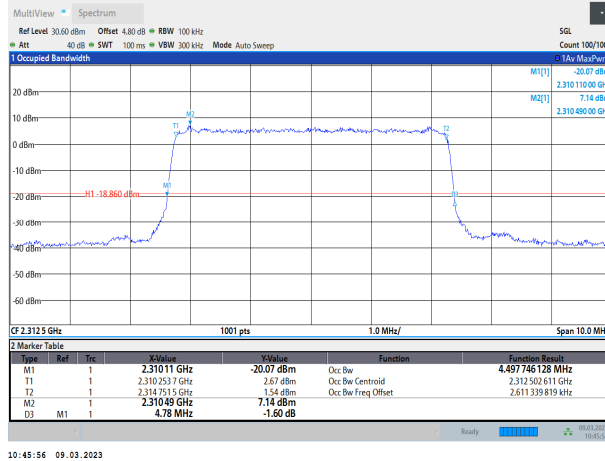


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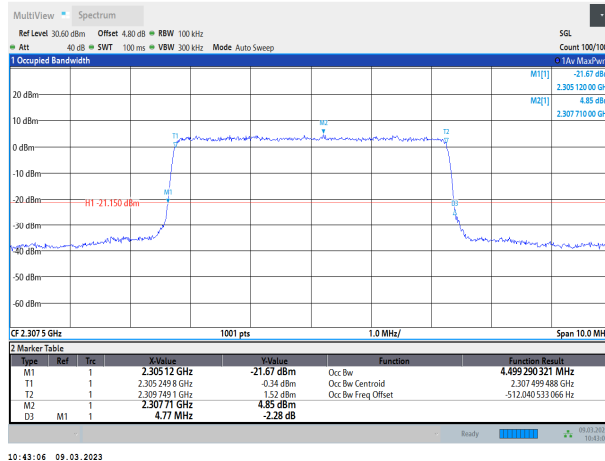
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### Band30-5MHz-64QAM-27735-25RB#0



### Band30-5MHz-256QAM-27685-25RB#0



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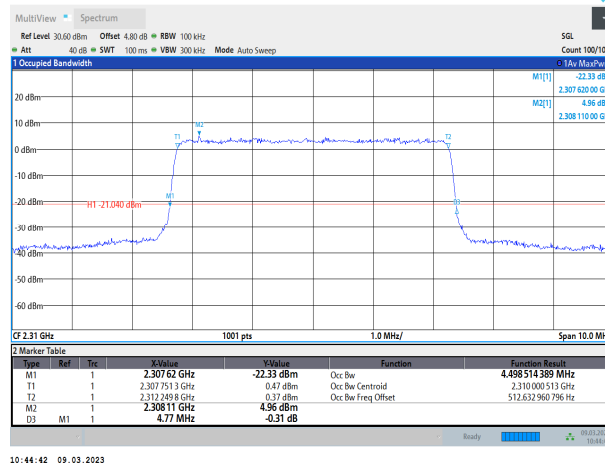
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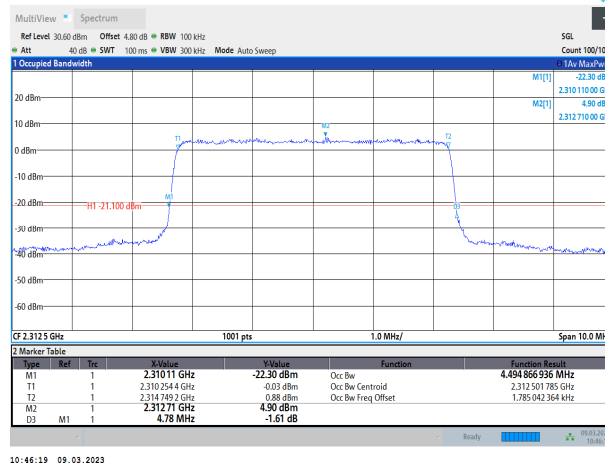
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### Band30-5MHz-256QAM-27710-25RB#0



### Band30-5MHz-256QAM-27735-25RB#0



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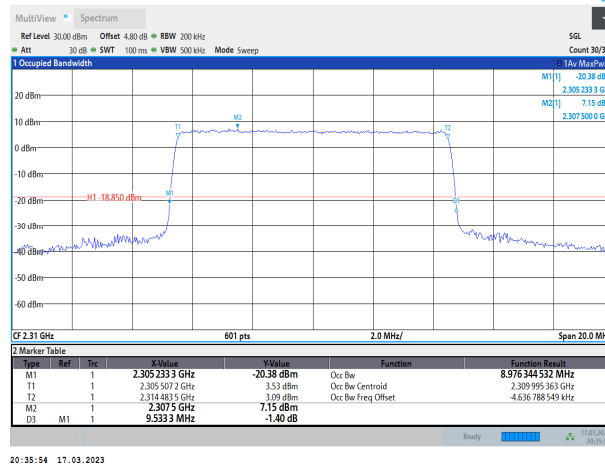
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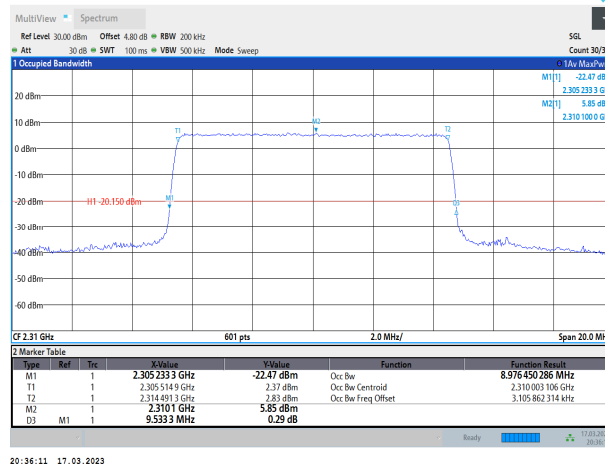
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### Band30-10MHz-QPSK-27710-50RB#0



### Band30-10MHz-16QAM-27710-50RB#0



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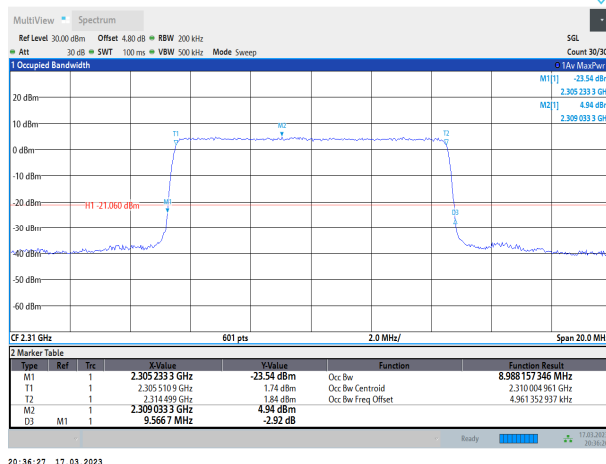
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### Band30-10MHz-64QAM-27710-50RB#0



### Band30-10MHz-256QAM-27710-50RB#0



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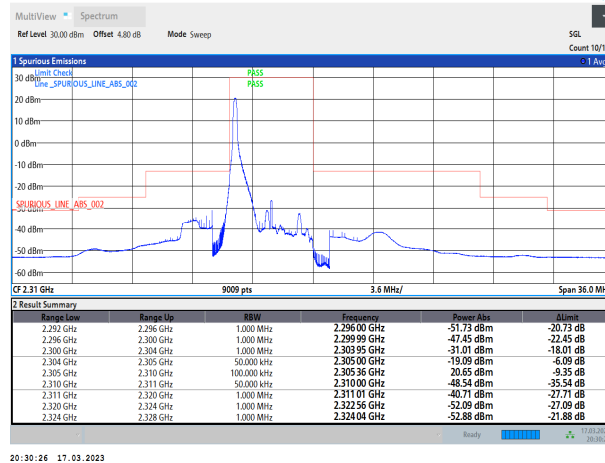
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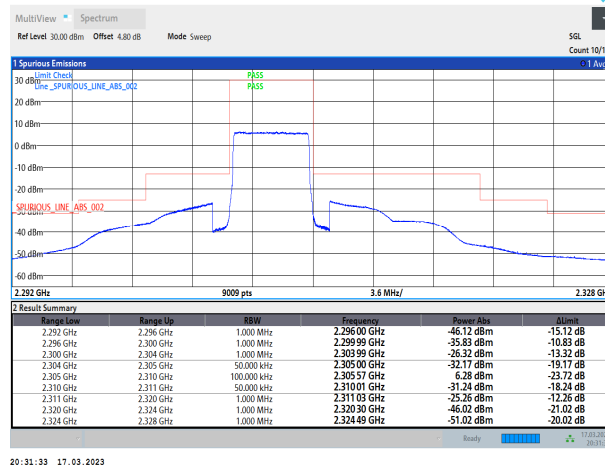
## Band Edge

## Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-25RB#0



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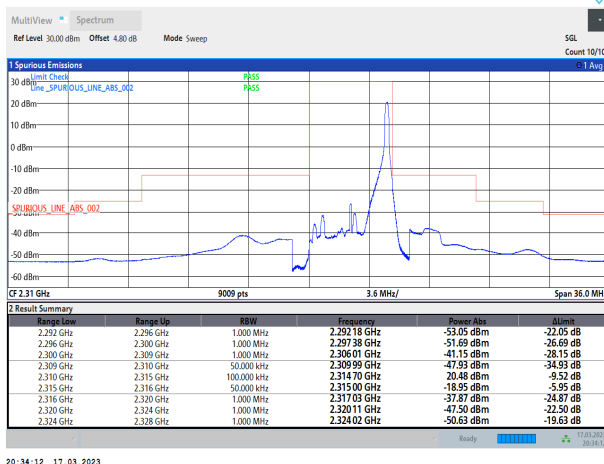
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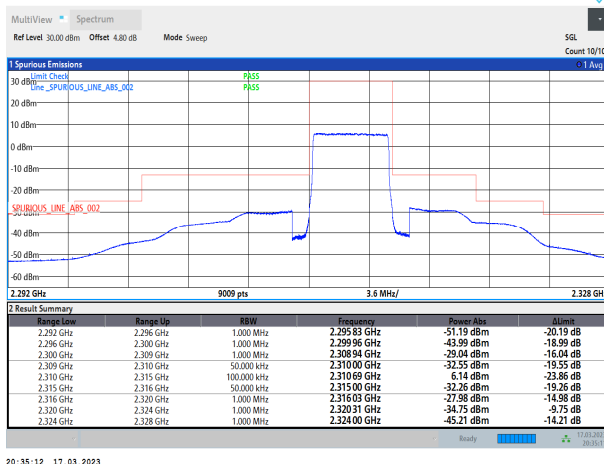
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20:34:12 17.03.2023

## Band30-5MHz-QPSK-27735-25RB#0



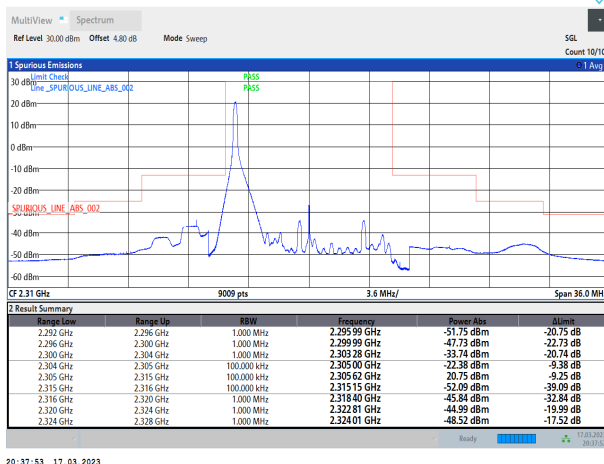
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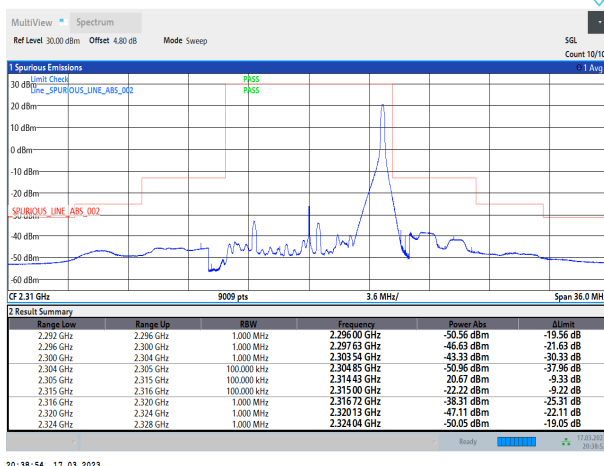
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## Band30-10MHz-QPSK-27710-1RB#0



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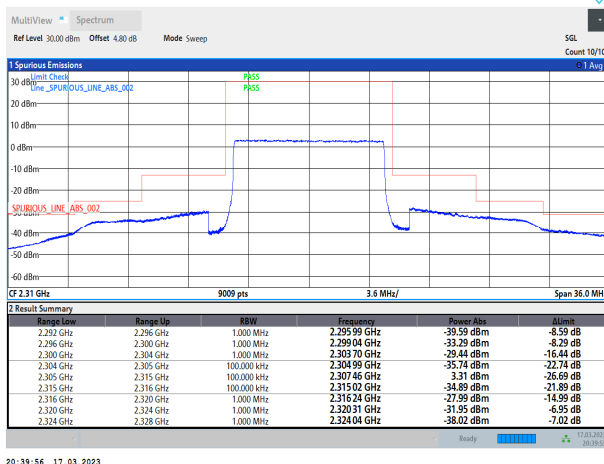


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### Band30-10MHz-QPSK-27710-50RB#0



20:39:56 17.03.2023



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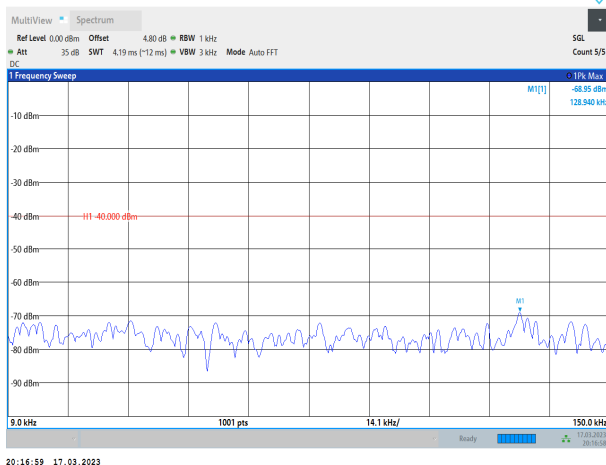
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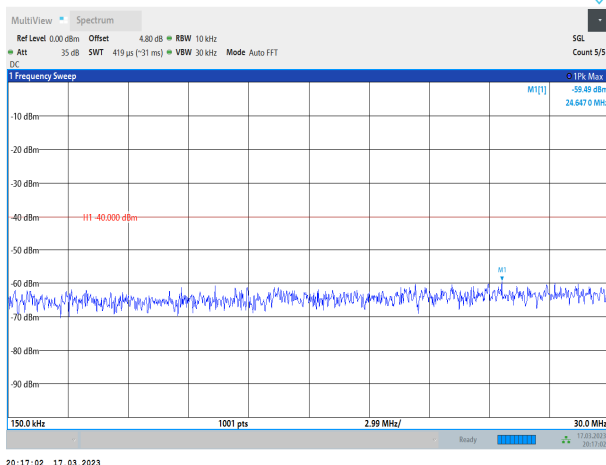
### Conducted Spurious Emission

#### Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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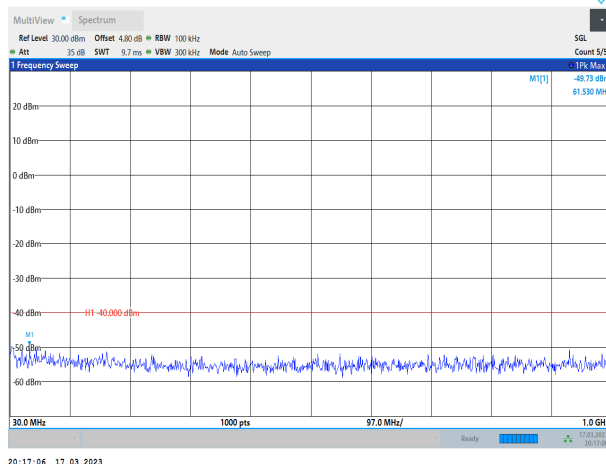
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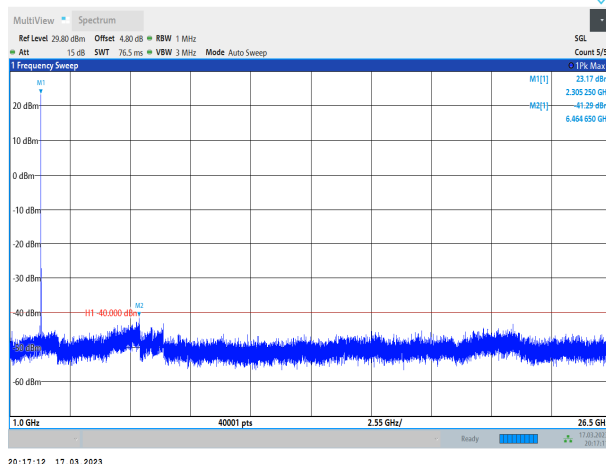
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### Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



### Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band30\_10M\_ TM1

Test Channel = Mid

### 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   | 4611               | 46.10             | -45.66         | 31.74    | -63.08         | -40.00         | 23.08          | 215            | 138          | Horizontal |
| 2   | 6916.5             | 44.22             | -44.01         | 35.98    | -59.07         | -40.00         | 19.07          | 136            | 272          | Horizontal |
| 3   | 9222.3600          | 32.34             | -40.24         | 38.36    | -64.81         | -40.00         | 24.81          | 259            | 288          | Horizontal |
| 4   | 11527.9500         | 29.12             | -37.19         | 38.97    | -64.37         | -40.00         | 24.37          | 148            | 123          | Horizontal |
| 5   | 13833.5400         | 30.74             | -36.08         | 39.99    | -60.61         | -40.00         | 20.61          | 175            | 0            | Horizontal |
| 6   | 16139.1300         | 33.33             | -34.58         | 37.69    | -58.82         | -40.00         | 18.82          | 192            | 196          | 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   | 4611               | 51.45             | -45.66         | 31.74    | -57.73         | -40.00         | 17.73          | 245            | 198          | Vertical |
| 2   | 6916.5             | 49.65             | -44.01         | 35.98    | -53.64         | -40.00         | 13.64          | 122            | 183          | Vertical |
| 3   | 9222.3600          | 35.33             | -40.24         | 38.36    | -61.82         | -40.00         | 21.82          | 259            | 95           | Vertical |
| 4   | 11527.9500         | 29.11             | -37.19         | 38.97    | -64.38         | -40.00         | 24.38          | 191            | 121          | Vertical |
| 5   | 13833.5400         | 30.85             | -36.08         | 39.99    | -60.50         | -40.00         | 20.50          | 148            | 166          | Vertical |
| 6   | 16139.1300         | 33.59             | -34.58         | 37.69    | -58.56         | -40.00         | 18.56          | 172            | 302          | Vertical |



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**Test Band = LTE Band30\_5M\_ 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   | 4610.6800          | 44.96             | -45.66         | 31.74    | -64.22         | -40.00         | 24.22          | 214            | 272          | Horizontal |
| 2   | 6916.0200          | 41.90             | -44.01         | 35.98    | -61.39         | -40.00         | 21.39          | 136            | 108          | Horizontal |
| 3   | 9221.3600          | 33.96             | -40.24         | 38.36    | -63.19         | -40.00         | 23.19          | 256            | 272          | Horizontal |
| 4   | 11526.7000         | 28.49             | -37.20         | 38.97    | -65.00         | -40.00         | 25.00          | 144            | 101          | Horizontal |
| 5   | 13832.0400         | 30.76             | -36.09         | 39.99    | -60.60         | -40.00         | 20.60          | 189            | 115          | Horizontal |
| 6   | 16137.3800         | 33.27             | -34.58         | 37.69    | -58.87         | -40.00         | 18.87          | 192            | 163          | 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   | 4610.6800          | 50.67             | -45.66         | 31.74    | -58.51         | -40.00         | 18.51          | 214            | 108          | Vertical |
| 2   | 6915.75            | 50.77             | -44.01         | 35.98    | -52.52         | -40.00         | 12.52          | 155            | 182          | Vertical |
| 3   | 9221.25            | 36.58             | -40.24         | 38.36    | -60.57         | -40.00         | 20.57          | 198            | 92           | Vertical |
| 4   | 11526.7000         | 29.09             | -37.20         | 38.97    | -64.40         | -40.00         | 24.40          | 175            | 138          | Vertical |
| 5   | 13832.0400         | 30.37             | -36.09         | 39.99    | -60.99         | -40.00         | 20.99          | 142            | 0            | Vertical |
| 6   | 16137.3800         | 33.27             | -34.58         | 37.69    | -58.87         | -40.00         | 18.87          | 133            | 273          | Vertical |



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**Test Band = LTE Band30\_5M\_ TM1**

**Test Channel = Mid**

**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   | 4615.5             | 45.77             | -45.66         | 31.76    | -63.39         | -40.00         | 23.39          | 248            | 270          | Horizontal |
| 2   | 6923.25            | 43.31             | -43.97         | 35.99    | -59.93         | -40.00         | 19.93          | 174            | 270          | Horizontal |
| 3   | 9231.3600          | 31.99             | -40.24         | 38.36    | -65.15         | -40.00         | 25.15          | 159            | 151          | Horizontal |
| 4   | 11539.2000         | 28.67             | -37.15         | 38.96    | -64.78         | -40.00         | 24.78          | 126            | 8            | Horizontal |
| 5   | 13847.0400         | 30.64             | -35.95         | 40.00    | -60.57         | -40.00         | 20.57          | 200            | 34           | Horizontal |
| 6   | 16154.8800         | 33.52             | -34.60         | 37.67    | -58.66         | -40.00         | 18.66          | 135            | 285          | 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   | 4615.5             | 52.06             | -45.66         | 31.76    | -57.10         | -40.00         | 17.10          | 254            | 95           | Vertical |
| 2   | 6923.25            | 48.79             | -43.97         | 35.99    | -54.45         | -40.00         | 14.45          | 125            | 0            | Vertical |
| 3   | 9231               | 36.58             | -40.24         | 38.36    | -60.56         | -40.00         | 20.56          | 200            | 225          | Vertical |
| 4   | 11539.2000         | 28.55             | -37.15         | 38.96    | -64.90         | -40.00         | 24.90          | 175            | 242          | Vertical |
| 5   | 13847.0400         | 30.57             | -35.95         | 40.00    | -60.64         | -40.00         | 20.64          | 142            | 183          | Vertical |
| 6   | 16154.8800         | 33.55             | -34.60         | 37.67    | -58.63         | -40.00         | 18.63          | 130            | 105          | Vertical |



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**Test Band = LTE Band30\_5M\_ TM1**

**Test Channel = High**

**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   | 4620.6800          | 46.72             | -45.66         | 31.77    | -62.42         | -40.00         | 22.42          | 248            | 272          | Horizontal |
| 2   | 6931.0200          | 42.93             | -43.93         | 36.00    | -60.26         | -40.00         | 20.26          | 136            | 272          | Horizontal |
| 3   | 9241.3600          | 33.29             | -40.24         | 38.37    | -63.84         | -40.00         | 23.84          | 256            | 213          | Horizontal |
| 4   | 11551.7000         | 28.43             | -37.10         | 38.94    | -64.98         | -40.00         | 24.98          | 215            | 48           | Horizontal |
| 5   | 13862.0400         | 30.44             | -35.81         | 40.02    | -60.61         | -40.00         | 20.61          | 188            | 357          | Horizontal |
| 6   | 16172.3800         | 33.36             | -34.61         | 37.65    | -58.86         | -40.00         | 18.86          | 198            | 286          | 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   | 4620.6800          | 53.35             | -45.66         | 31.77    | -55.79         | -40.00         | 15.79          | 271            | 91           | Vertical |
| 2   | 6930.75            | 49.87             | -43.93         | 36.00    | -53.32         | -40.00         | 13.32          | 154            | 181          | Vertical |
| 3   | 9241.3600          | 34.91             | -40.24         | 38.37    | -62.22         | -40.00         | 22.22          | 136            | 166          | Vertical |
| 4   | 11551.7000         | 28.11             | -37.10         | 38.94    | -65.30         | -40.00         | 25.30          | 256            | 46           | Vertical |
| 5   | 13862.0400         | 30.46             | -35.81         | 40.02    | -60.59         | -40.00         | 20.59          | 152            | 243          | Vertical |
| 6   | 16172.3800         | 34.08             | -34.61         | 37.65    | -58.14         | -40.00         | 18.14          | 211            | 9            | Vertical |



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**Test Band = LTE 30A\_66A\_ 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   | 4618.5             | 45.52             | -45.66         | 31.77    | -63.63         | -40.00         | 23.63          | 142            | 268          | Horizontal |
| 2   | 6916.0200          | 40.39             | -44.01         | 35.98    | -62.90         | -40.00         | 22.90          | 186            | 224          | Horizontal |
| 3   | 8510.4500          | 37.98             | -41.59         | 37.56    | -61.31         | -40.00         | 21.31          | 239            | 343          | Horizontal |
| 4   | 9221.3600          | 36.74             | -40.24         | 38.36    | -60.41         | -40.00         | 20.41          | 215            | 59           | Horizontal |
| 5   | 10212.5400         | 35.95             | -39.45         | 38.81    | -59.94         | -40.00         | 19.94          | 172            | 255          | Horizontal |
| 6   | 11914.6300         | 33.95             | -37.18         | 38.88    | -59.61         | -40.00         | 19.61          | 168            | 357          | 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   | 4620               | 48.26             | -45.66         | 31.77    | -60.89         | -40.00         | 20.89          | 229            | 286          | Vertical |
| 2   | 6928.5             | 53.71             | -43.94         | 35.99    | -49.50         | -40.00         | 9.50           | 186            | 121          | Vertical |
| 3   | 8510.4500          | 38.57             | -41.59         | 37.56    | -60.72         | -40.00         | 20.72          | 158            | 209          | Vertical |
| 4   | 9221.3600          | 36.90             | -40.24         | 38.36    | -60.25         | -40.00         | 20.25          | 186            | 60           | Vertical |
| 5   | 10212.5400         | 36.22             | -39.45         | 38.81    | -59.67         | -40.00         | 19.67          | 259            | 360          | Vertical |
| 6   | 11914.6300         | 34.13             | -37.18         | 38.88    | -59.43         | -40.00         | 19.43          | 163            | 135          | Vertical |



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**Test Band = LTE 30A\_66A\_ TM1**

**Test Channel = Mid**

**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   | 4615.6800          | 44.12             | -45.66         | 31.76    | -65.04         | -40.00         | 25.04          | 218            | 14           | Horizontal |
| 2   | 6923.5200          | 43.74             | -43.97         | 35.99    | -59.50         | -40.00         | 19.50          | 195            | 60           | Horizontal |
| 3   | 8635.4500          | 38.86             | -41.46         | 37.81    | -60.05         | -40.00         | 20.05          | 162            | 360          | Horizontal |
| 4   | 9231.3600          | 36.48             | -40.24         | 38.36    | -60.66         | -40.00         | 20.66          | 142            | 105          | Horizontal |
| 5   | 10362.5400         | 36.27             | -39.04         | 38.85    | -59.18         | -40.00         | 19.18          | 235            | 4            | Horizontal |
| 6   | 12089.6300         | 34.27             | -37.37         | 39.04    | -59.32         | -40.00         | 19.32          | 288            | 4            | 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   | 4620               | 48.69             | -45.66         | 31.77    | -60.46         | -40.00         | 20.46          | 274            | 286          | Vertical |
| 2   | 6928.5             | 53.86             | -43.94         | 35.99    | -49.35         | -40.00         | 9.35           | 148            | 122          | Vertical |
| 3   | 8635.4500          | 38.90             | -41.46         | 37.81    | -60.01         | -40.00         | 20.01          | 155            | 344          | Vertical |
| 4   | 9231.3600          | 37.49             | -40.24         | 38.36    | -59.65         | -40.00         | 19.65          | 216            | 105          | Vertical |
| 5   | 10362.5400         | 36.93             | -39.04         | 38.85    | -58.52         | -40.00         | 18.52          | 239            | 359          | Vertical |
| 6   | 12089.6300         | 34.38             | -37.37         | 39.04    | -59.21         | -40.00         | 19.21          | 284            | 151          | Vertical |



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Test Band = LTE 30A\_66A\_TM1

Test Channel = High

## 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   | 4620.6800          | 45.11             | -45.66         | 31.77    | -64.03         | -40.00         | 24.03          | 248            | 29           | Horizontal |
| 2   | 6931.0200          | 41.95             | -43.93         | 36.00    | -61.24         | -40.00         | 21.24          | 177            | 90           | Horizontal |
| 3   | 8760.4500          | 39.10             | -41.42         | 38.02    | -59.57         | -40.00         | 19.57          | 143            | 178          | Horizontal |
| 4   | 9241.3200          | 36.99             | -40.24         | 38.37    | -60.14         | -40.00         | 20.14          | 235            | 75           | Horizontal |
| 5   | 10512.5400         | 34.73             | -38.76         | 38.97    | -60.32         | -40.00         | 20.32          | 198            | 359          | Horizontal |
| 6   | 12262.6300         | 34.30             | -37.44         | 39.11    | -59.29         | -40.00         | 19.29          | 246            | 178          | 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   | 4620.6800          | 47.98             | -45.66         | 31.77    | -61.16         | -40.00         | 21.16          | 224            | 284          | Vertical |
| 2   | 6931.0200          | 52.03             | -43.93         | 36.00    | -51.16         | -40.00         | 11.16          | 185            | 120          | Vertical |
| 3   | 8760.4500          | 38.42             | -41.42         | 38.02    | -60.25         | -40.00         | 20.25          | 199            | 360          | Vertical |
| 4   | 9241.3200          | 37.52             | -40.24         | 38.37    | -59.61         | -40.00         | 19.61          | 263            | 134          | Vertical |
| 5   | 10512.5400         | 34.96             | -38.76         | 38.97    | -60.09         | -40.00         | 20.09          | 250            | 225          | Vertical |
| 6   | 12262.6300         | 34.96             | -37.44         | 39.11    | -58.63         | -40.00         | 18.63          | 142            | 16           | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | VL            | NT               | 8.10           | 0.003506        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | VN            | NT               | -19.60         | -0.008485       | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | VH            | NT               | -10.50         | -0.004545       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | -30              | -11.10         | -0.004805       | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | -20              | -8.70          | -0.003766       | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 0                | -0.50          | -0.000216       | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 10               | 4.50           | 0.001948        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 20               | -7.30          | -0.003160       | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 30               | 0.50           | 0.000266        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 40               | 1.50           | 0.000797        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0       | NV            | 50               | 0.40           | 0.000212        | PASS    |

---End of Attachment---



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