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Appendix B.8

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data for

SEWM2305000178RG01

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 22.78 | 22.11 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 23.06 | 22.39 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 22.78 | 22.11 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 21.94 | 21.27 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 22.8 | 22.13 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 23.01 | 22.34 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 22.82 | 22.15 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 21.83 | 21.16 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 22.83 | 22.16 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 23.15 | 22.48 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 22.88 | 22.21 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 21.96 | 21.29 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 22.09 | 21.42 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 22.24 | 21.57 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 21.95 | 21.28 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 20.97 | 20.3 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 21.99 | 21.32 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 22.27 | 21.6 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 22.09 | 21.42 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 20.86 | 20.19 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 22.04 | 21.37 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 22.38 | 21.71 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 22.16 | 21.49 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 20.98 | 20.31 | 34.77 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band13 | 5MHz | 64QAM | 23205 | 1RB#0 | 20.99 | 20.32 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#12 | 21.21 | 20.54 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#24 | 20.85 | 20.18 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 19.97 | 19.3 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#0 | 20.95 | 20.28 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#12 | 21.21 | 20.54 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#24 | 21 | 20.33 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 19.89 | 19.22 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#0 | 21.01 | 20.34 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#12 | 21.39 | 20.72 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#24 | 21.04 | 20.37 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 20.01 | 19.34 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 22.88 | 22.21 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 23.03 | 22.36 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 22.91 | 22.24 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 21.81 | 21.14 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 22.12 | 21.45 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 22.21 | 21.54 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 22.18 | 21.51 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 20.82 | 20.15 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0 | 21.12 | 20.45 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 21.17 | 20.5 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 21.08 | 20.41 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 19.84 | 19.17 | 34.77 | PASS |



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Effective (Isotropic) Radiated Power Output Data for

SEWM2309000392RG01

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 22.59 | 21.92 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 22.9 | 22.23 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 22.58 | 21.91 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 21.72 | 21.05 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 22.59 | 21.92 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 22.86 | 22.19 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 22.65 | 21.98 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 21.67 | 21 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 22.7 | 22.03 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 23.01 | 22.34 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 22.66 | 21.99 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 21.77 | 21.1 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 21.9 | 21.23 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 22.06 | 21.39 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 21.76 | 21.09 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 20.85 | 20.18 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 21.83 | 21.16 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 22.14 | 21.47 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 21.86 | 21.19 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 20.69 | 20.02 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 21.9 | 21.23 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 22.26 | 21.59 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 21.93 | 21.26 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 20.79 | 20.12 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#0 | 20.81 | 20.14 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#12 | 20.99 | 20.32 | 34.77 | PASS |



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|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band13 | 5MHz | 64QAM | 23205 | 1RB#24 | 20.69 | 20.02 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 19.75 | 19.08 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#0 | 20.72 | 20.05 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#12 | 21.06 | 20.39 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#24 | 20.85 | 20.18 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 19.68 | 19.01 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#0 | 20.83 | 20.16 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#12 | 21.18 | 20.51 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#24 | 20.88 | 20.21 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 19.78 | 19.11 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 22.67 | 22 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 22.89 | 22.22 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 22.78 | 22.11 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 21.67 | 21 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 21.93 | 21.26 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 22.06 | 21.39 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 21.96 | 21.29 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 20.65 | 19.98 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0 | 20.89 | 20.22 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 20.95 | 20.28 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 20.88 | 20.21 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 19.71 | 19.04 | 34.77 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 5.06 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 5.74 | 13 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 6.06 | 13 | PASS |



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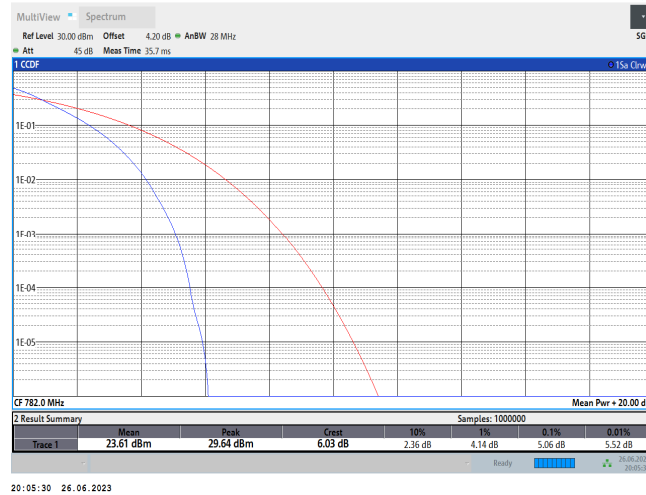
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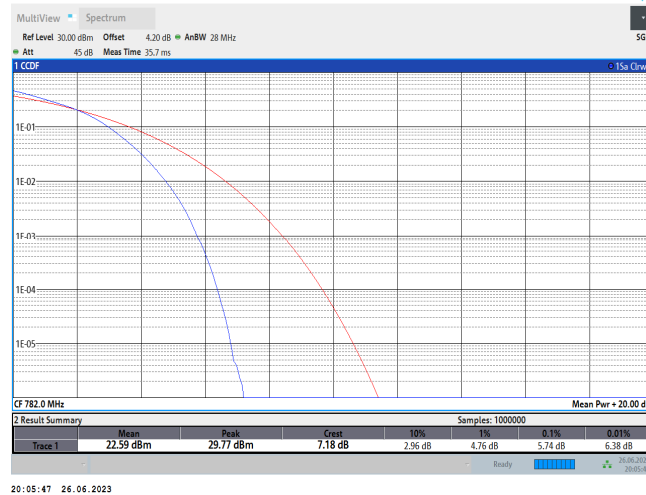
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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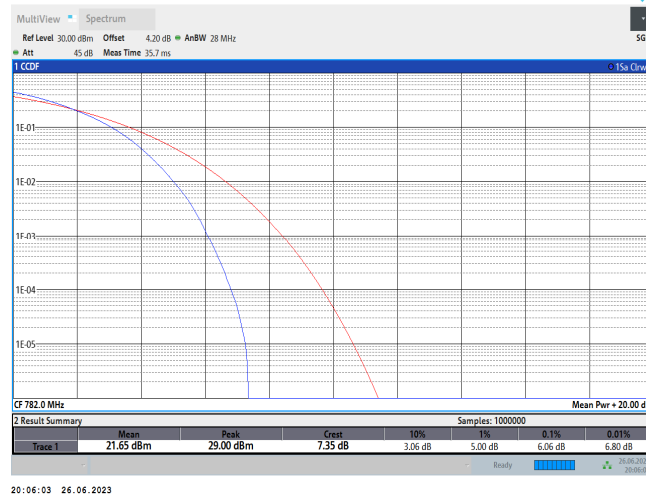
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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 4.489 | 5.27 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 4.481 | 4.95 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 4.462 | 4.96 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 4.474 | 4.88 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 4.484 | 4.95 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 4.459 | 4.93 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 4.487 | 4.96 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 4.468 | 4.87 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 4.509 | 4.92 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 8.948 | 9.60 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 8.914 | 9.70 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 8.879 | 9.44 | PASS |



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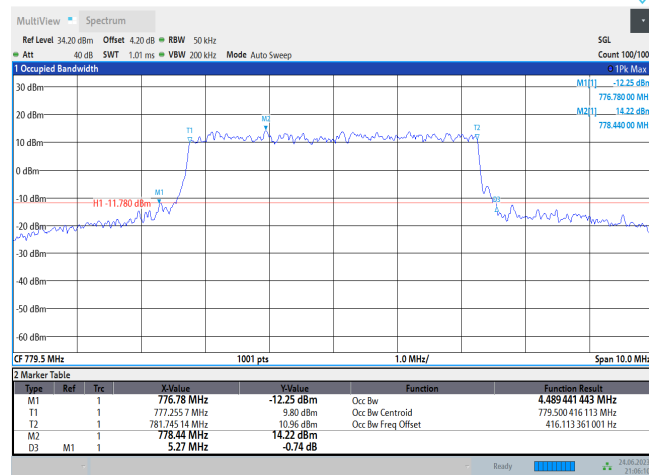
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Rev.: 01

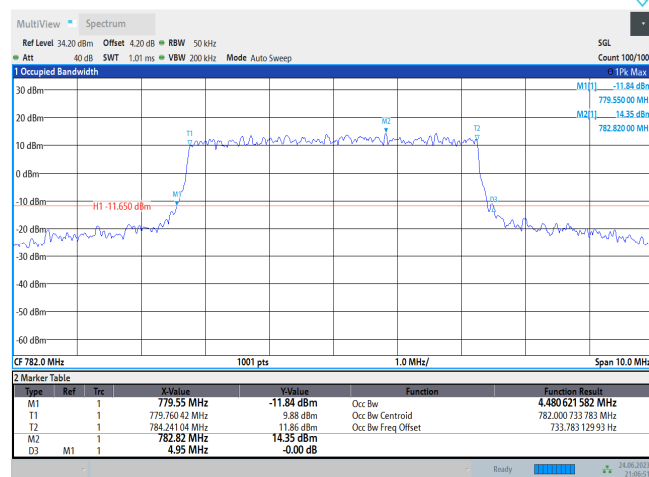
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Test Graphs

Band13-5MHz-QPSK-23205-25RB#0



Band13-5MHz-QPSK-23230-25RB#0

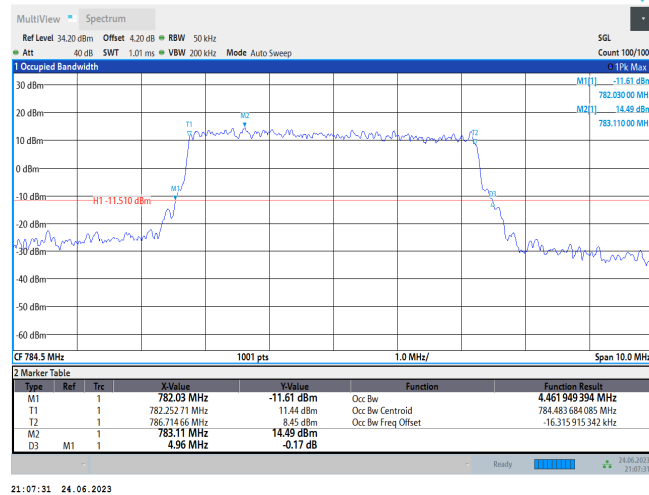


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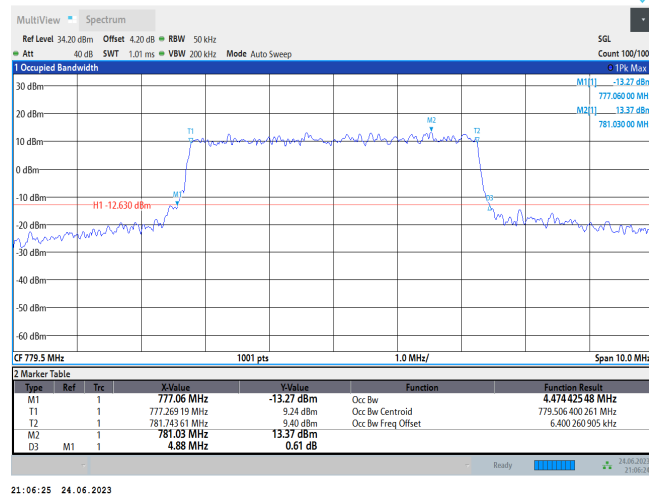
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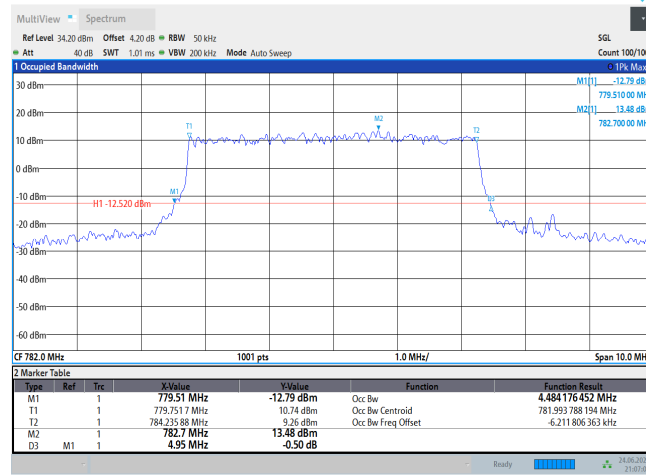
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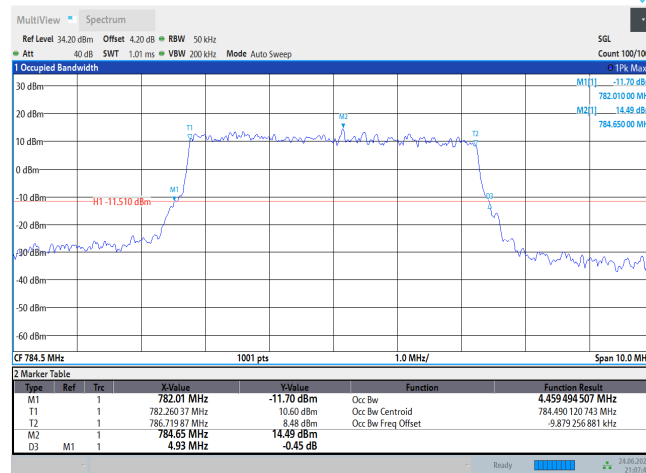


Band13-5MHz-16QAM-23230-25RB#0



21:07:05 24.06.2023

Band13-5MHz-16QAM-23255-25RB#0



21:07:45 24.06.2023



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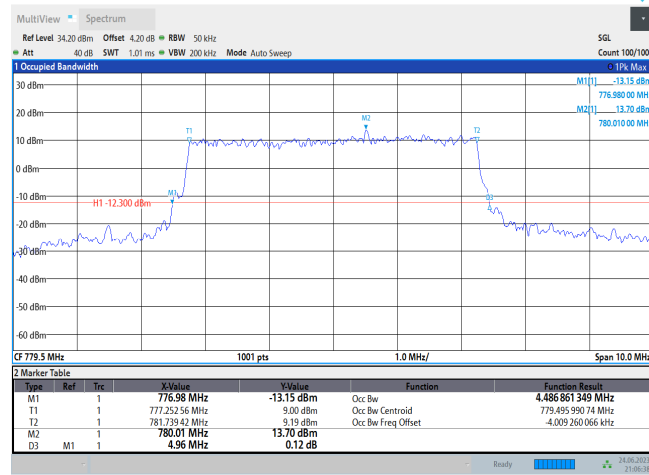
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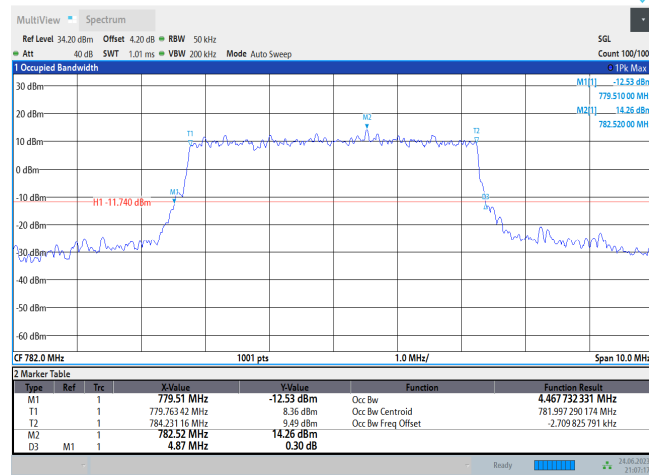
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Band13-5MHz-64QAM-23205-25RB#0



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Band13-5MHz-64QAM-23230-25RB#0



21:07:18 24.06.2023



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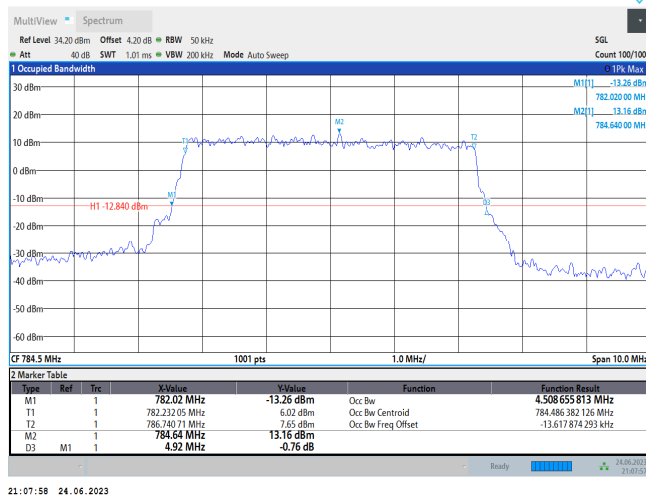
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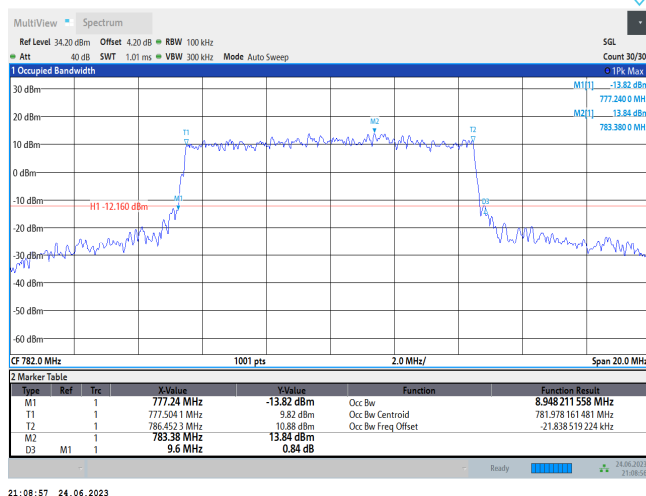
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Band13-5MHz-64QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0



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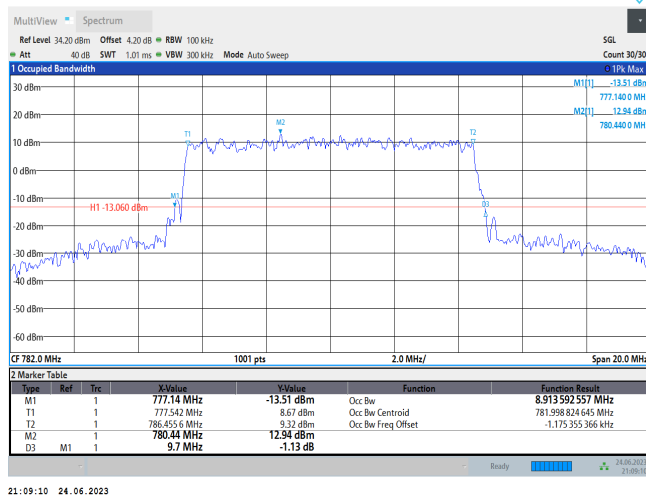
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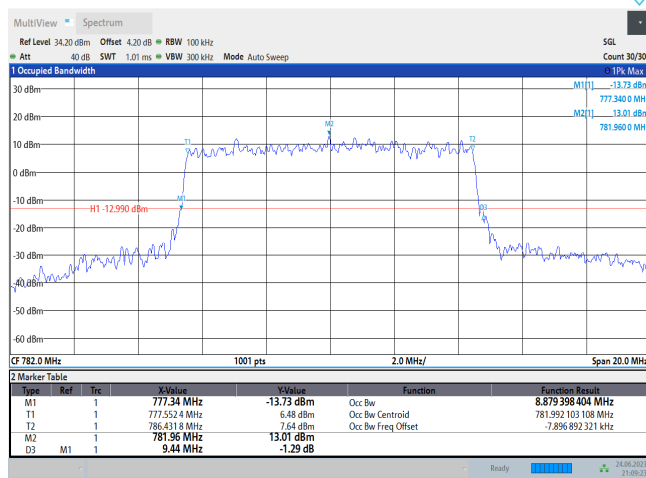
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Band13-10MHz-16QAM-23230-50RB#0



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Band13-10MHz-64QAM-23230-50RB#0

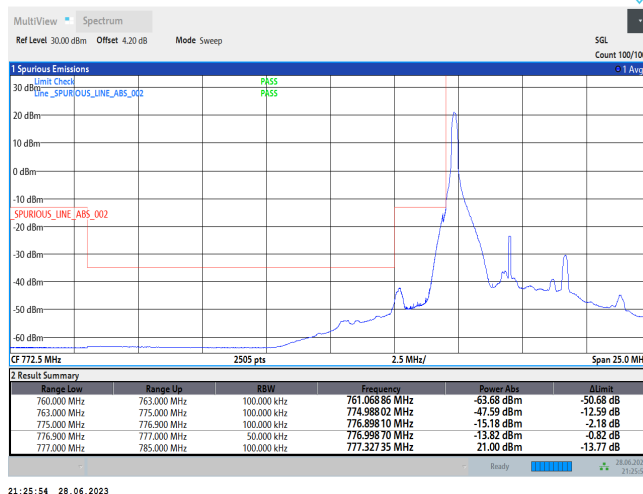


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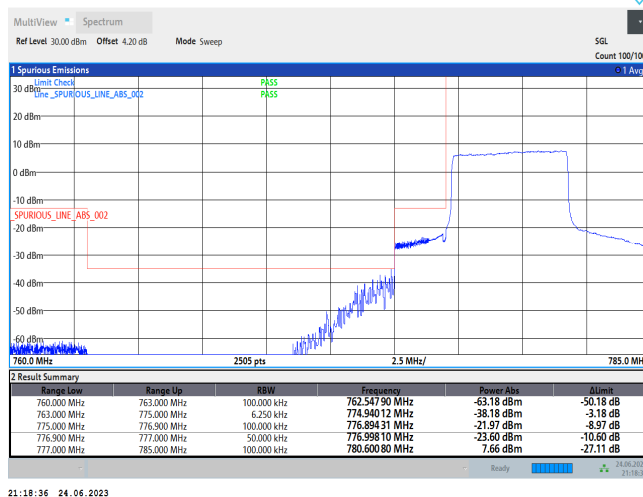
Band Edge

Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0



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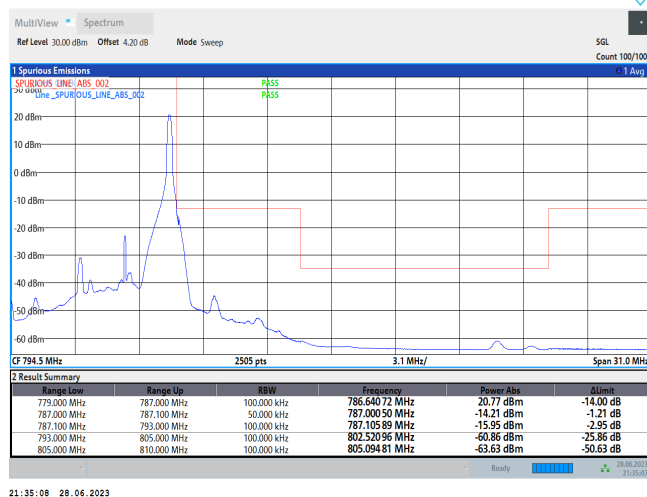
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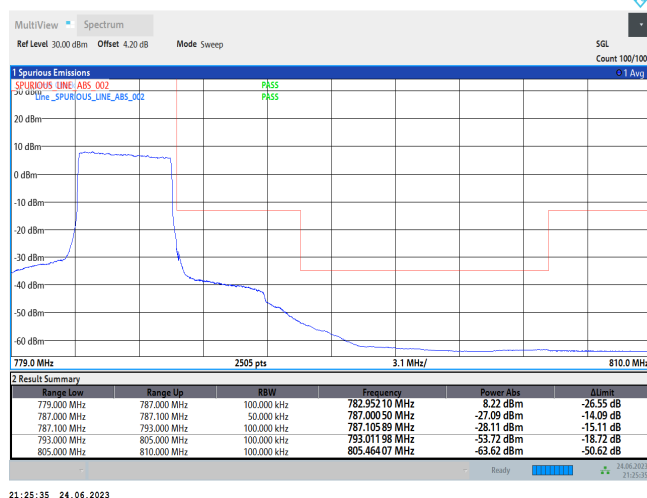
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Band13-5MHz-QPSK-23255-1RB#24



Band13-5MHz-QPSK-23255-25RB#0



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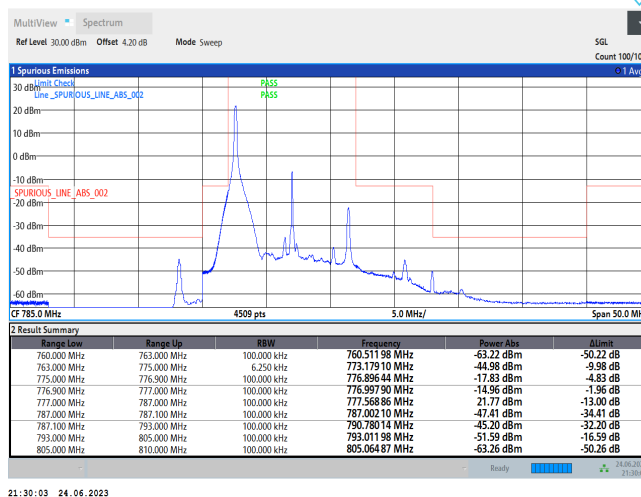
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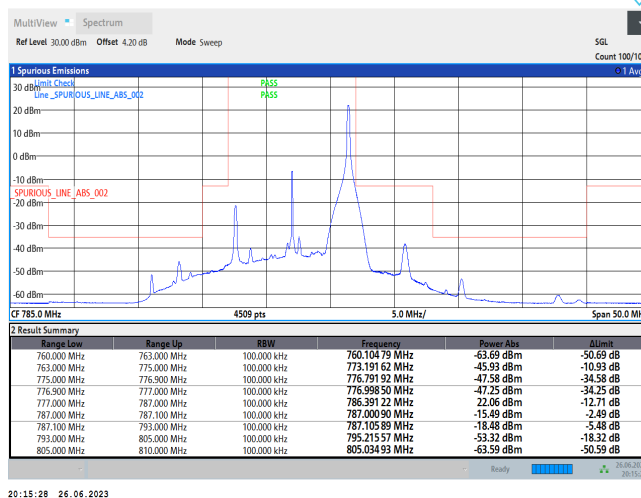
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Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49



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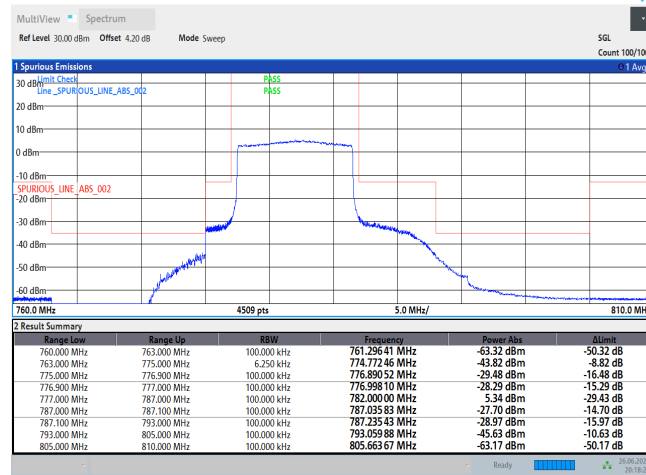
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Band13-10MHz-QPSK-23230-50RB#0



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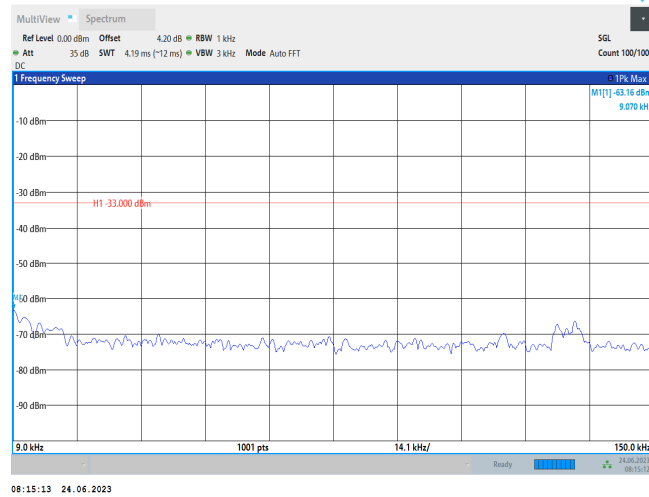
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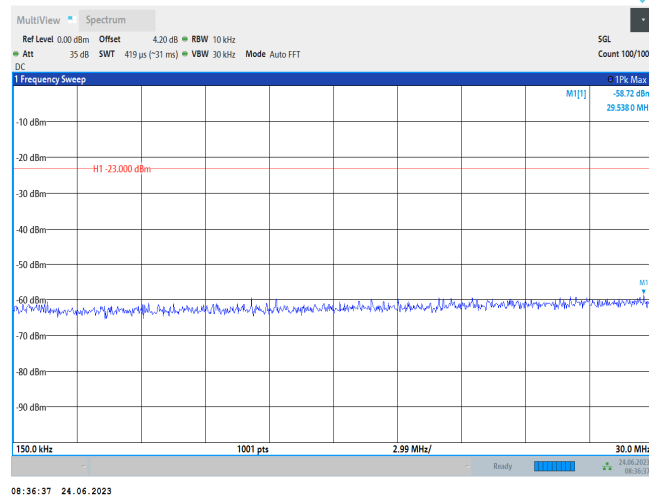
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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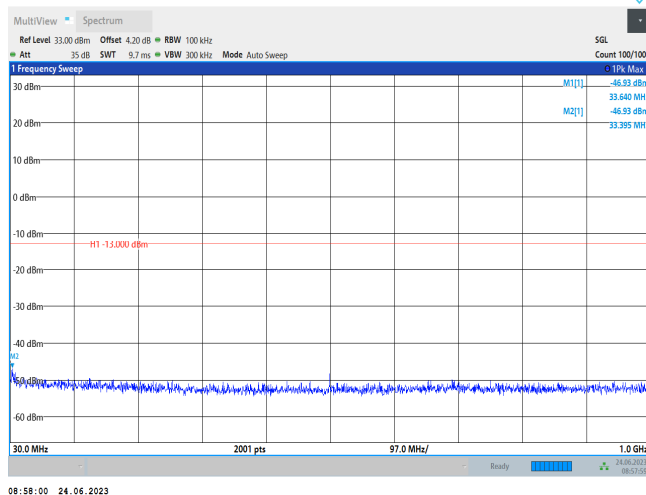
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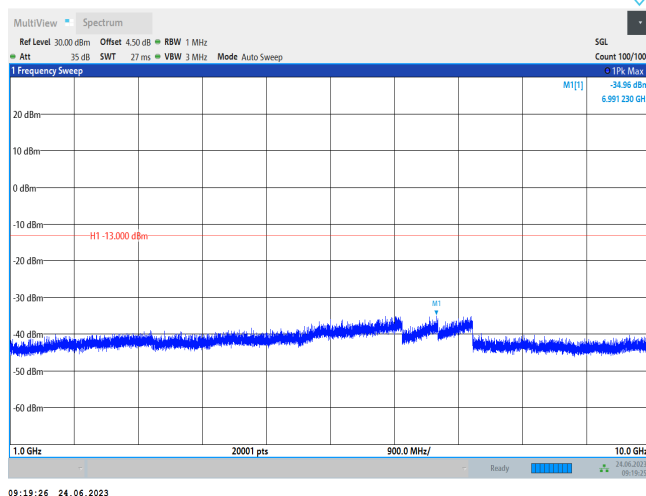
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE band 13_ TM1_10MHz

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 | 1554.8571 | 72.24 | -48.30 | 25.18 | -46.14 | -13.00 | 33.14 | 145 | 118 | Horizontal |
| 2 | 2332.5714 | 59.64 | -47.48 | 26.83 | -56.27 | -13.00 | 43.27 | 155 | 90 | Horizontal |
| 3 | 3110.2857 | 50.61 | -46.70 | 28.37 | -62.99 | -13.00 | 49.99 | 255 | 118 | Horizontal |
| 4 | 3888 | 48.03 | -46.22 | 28.99 | -64.46 | -13.00 | 51.46 | 148 | 202 | Horizontal |
| 5 | 4887.4286 | 42.59 | -45.59 | 31.15 | -67.11 | -13.00 | 54.11 | 172 | 228 | Horizontal |
| 6 | 6065.7143 | 41.16 | -44.60 | 32.91 | -65.79 | -13.00 | 52.79 | 136 | 56 | 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 | 1555.4286 | 58.90 | -48.30 | 25.18 | -59.48 | -13.00 | 46.48 | 244 | 175 | Vertical |
| 2 | 2332.5714 | 55.95 | -47.48 | 26.83 | -59.96 | -13.00 | 46.96 | 156 | 19 | Vertical |
| 3 | 3110.2857 | 53.37 | -46.70 | 28.37 | -60.23 | -13.00 | 47.23 | 136 | 80 | Vertical |
| 4 | 3888 | 45.06 | -46.22 | 28.99 | -67.43 | -13.00 | 54.43 | 259 | 84 | Vertical |
| 5 | 4915.4286 | 42.59 | -45.62 | 31.21 | -67.07 | -13.00 | 54.07 | 188 | 254 | Vertical |
| 6 | 6020.5714 | 41.26 | -44.48 | 32.77 | -65.72 | -13.00 | 52.72 | 172 | 347 | Vertical |



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Test Band = LTE band 13_ TM1_5MHz

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 | 1409.1429 | 63.13 | -48.03 | 25.10 | -55.05 | -13.00 | 42.05 | 152 | 360 | Horizontal |
| 2 | 2113.7143 | 49.42 | -47.71 | 26.22 | -67.33 | -13.00 | 54.33 | 169 | 100 | Horizontal |
| 3 | 2818.3600 | 43.23 | -46.85 | 27.94 | -70.95 | -13.00 | 57.95 | 258 | 250 | Horizontal |
| 4 | 3522.9500 | 42.52 | -46.49 | 28.62 | -70.61 | -13.00 | 57.61 | 154 | 354 | Horizontal |
| 5 | 4227.5400 | 40.80 | -45.91 | 29.65 | -70.72 | -13.00 | 57.72 | 236 | 52 | Horizontal |
| 6 | 4932.1300 | 41.89 | -45.65 | 31.25 | -67.77 | -13.00 | 54.77 | 111 | 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 | 1409.1429 | 57.05 | -48.03 | 25.10 | -61.13 | -13.00 | 48.13 | 127 | 217 | Vertical |
| 2 | 2113.7700 | 43.17 | -47.71 | 26.22 | -73.58 | -13.00 | 60.58 | 169 | 287 | Vertical |
| 3 | 2818.3600 | 42.97 | -46.85 | 27.94 | -71.21 | -13.00 | 58.21 | 258 | 159 | Vertical |
| 4 | 3522.9500 | 42.28 | -46.49 | 28.62 | -70.85 | -13.00 | 57.85 | 147 | 228 | Vertical |
| 5 | 4227.5400 | 41.03 | -45.91 | 29.65 | -70.49 | -13.00 | 57.49 | 232 | 109 | Vertical |
| 6 | 4932.1300 | 42.53 | -45.65 | 31.25 | -67.13 | -13.00 | 54.13 | 154 | 50 | Vertical |



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Test Band = LTE band 13_ TM1_5MHz
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 | 1554.8571 | 67.60 | -48.30 | 25.18 | -50.78 | -13.00 | 37.78 | 241 | 153 | Horizontal |
| 2 | 2332 | 60.11 | -47.48 | 26.83 | -55.80 | -13.00 | 42.80 | 265 | 190 | Horizontal |
| 3 | 3109.1429 | 53.34 | -46.71 | 28.37 | -60.26 | -13.00 | 47.26 | 196 | 132 | Horizontal |
| 4 | 3886.8571 | 47.99 | -46.22 | 28.99 | -64.50 | -13.00 | 51.50 | 158 | 212 | Horizontal |
| 5 | 4880.5714 | 42.64 | -45.59 | 31.14 | -67.07 | -13.00 | 54.07 | 172 | 80 | Horizontal |
| 6 | 6681.1429 | 40.60 | -44.14 | 34.63 | -64.18 | -13.00 | 51.18 | 133 | 212 | 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 | 1554.8571 | 61.03 | -48.30 | 25.18 | -57.35 | -13.00 | 44.35 | 175 | 181 | Vertical |
| 2 | 2332 | 56.97 | -47.48 | 26.83 | -58.94 | -13.00 | 45.94 | 146 | 14 | Vertical |
| 3 | 3109.1429 | 48.81 | -46.71 | 28.37 | -64.79 | -13.00 | 51.79 | 196 | 83 | Vertical |
| 4 | 3886.8571 | 45.34 | -46.22 | 28.99 | -67.15 | -13.00 | 54.15 | 258 | 140 | Vertical |
| 5 | 4664 | 42.89 | -45.80 | 30.66 | -67.51 | -13.00 | 54.51 | 183 | 181 | Vertical |
| 6 | 5441.7143 | 41.67 | -45.04 | 32.46 | -66.17 | -13.00 | 53.17 | 261 | 70 | Vertical |



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Test Band = LTE band 13_ TM1_5MHz**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 | 1564.5714 | 71.51 | -48.29 | 25.18 | -46.86 | -40.00 | 6.86 | 245 | 102 | Horizontal |
| 2 | 2346.8571 | 63.06 | -47.48 | 26.87 | -52.81 | -13.00 | 39.81 | 188 | 263 | Horizontal |
| 3 | 3129.7143 | 56.80 | -46.61 | 28.38 | -56.70 | -13.00 | 43.70 | 186 | 72 | Horizontal |
| 4 | 3911.4286 | 48.45 | -46.23 | 29.01 | -64.03 | -13.00 | 51.03 | 236 | 204 | Horizontal |
| 5 | 4962.2857 | 42.62 | -45.72 | 31.32 | -67.05 | -13.00 | 54.05 | 256 | 4 | Horizontal |
| 6 | 5853.1429 | 41.58 | -44.82 | 32.67 | -65.83 | -13.00 | 52.83 | 192 | 244 | 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 | 1564.5714 | 65.11 | -48.29 | 25.18 | -53.26 | -40.00 | 13.26 | 254 | 130 | Vertical |
| 2 | 2346.8571 | 56.40 | -47.48 | 26.87 | -59.47 | -13.00 | 46.47 | 199 | 318 | Vertical |
| 3 | 3129.1429 | 54.91 | -46.62 | 28.38 | -58.59 | -13.00 | 45.59 | 186 | 110 | Vertical |
| 4 | 3911.4286 | 45.79 | -46.23 | 29.01 | -66.69 | -13.00 | 53.69 | 254 | 90 | Vertical |
| 5 | 4894.2857 | 42.91 | -45.58 | 31.17 | -66.77 | -13.00 | 53.77 | 147 | 7 | Vertical |
| 6 | 6465.1429 | 40.87 | -44.68 | 34.19 | -64.88 | -13.00 | 51.88 | 172 | 12 | Vertical |



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Test on the worst case:**Test Band = LTE Band 13 10M_ TM1****Test Channel = Mid**

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 4665.5 | 42.04 | -41.59 | 32.46 | -62.35 | -13.00 | 49.35 | Horizontal |
| 2 | 1555.18 | 57.53 | -46.92 | 24.71 | -59.94 | -13.00 | 46.94 | Horizontal |
| 3 | 2332.77 | 46.55 | -45.39 | 27.03 | -67.07 | -13.00 | 54.07 | Horizontal |
| 4 | 3110.36 | 40.04 | -43.99 | 29.52 | -69.68 | -13.00 | 56.68 | Horizontal |
| 5 | 3887.95 | 39.20 | -42.90 | 30.92 | -68.05 | -13.00 | 55.05 | Horizontal |
| 6 | 5443.13 | 38.26 | -40.74 | 33.11 | -64.63 | -13.00 | 51.63 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1555.18 | 53.47 | -46.92 | 24.71 | -64.00 | -13.00 | 51.00 | Vertical |
| 2 | 2332.77 | 44.93 | -45.39 | 27.03 | -68.69 | -13.00 | 55.69 | Vertical |
| 3 | 3110.36 | 40.89 | -43.99 | 29.52 | -68.83 | -13.00 | 55.83 | Vertical |
| 4 | 3887.95 | 39.01 | -42.90 | 30.92 | -68.24 | -13.00 | 55.24 | Vertical |
| 5 | 4665.54 | 38.66 | -41.59 | 32.47 | -65.72 | -13.00 | 52.72 | Vertical |
| 6 | 5443.13 | 38.09 | -40.74 | 33.11 | -64.80 | -13.00 | 51.80 | Vertical |



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Test Band = LTE Band 13 5M_ TM1
Test Channel = Low

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2332 | 48.05 | -45.39 | 27.03 | -65.57 | -13.00 | 52.57 | Horizontal |
| 2 | 1554.68 | 56.49 | -46.92 | 24.71 | -60.98 | -13.00 | 47.98 | Horizontal |
| 3 | 3109.36 | 39.69 | -43.99 | 29.52 | -70.04 | -13.00 | 57.04 | Horizontal |
| 4 | 3886.7 | 38.67 | -42.91 | 30.92 | -68.58 | -13.00 | 55.58 | Horizontal |
| 5 | 4664.04 | 38.99 | -41.59 | 32.46 | -65.40 | -13.00 | 52.40 | Horizontal |
| 6 | 5441.38 | 37.81 | -40.74 | 33.11 | -65.08 | -13.00 | 52.08 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1554.5 | 56.50 | -46.92 | 24.71 | -60.97 | -13.00 | 47.97 | Vertical |
| 2 | 2332 | 43.13 | -45.39 | 27.03 | -70.49 | -13.00 | 57.49 | Vertical |
| 3 | 4664 | 40.55 | -41.60 | 32.46 | -63.84 | -13.00 | 50.84 | Vertical |
| 4 | 3109.36 | 39.82 | -43.99 | 29.52 | -69.91 | -13.00 | 56.91 | Vertical |
| 5 | 3886.7 | 38.28 | -42.91 | 30.92 | -68.97 | -13.00 | 55.97 | Vertical |
| 6 | 5441.38 | 37.69 | -40.74 | 33.11 | -65.20 | -13.00 | 52.20 | Vertical |



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Test Band = LTE Band 13 5M_ TM1

Test Channel = Mid

Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| 1 | 1559.5 | 59.55 | -46.91 | 24.70 | -57.92 | -40.00 | 17.92 | Horizontal |
| 2 | 2339.5 | 51.54 | -45.38 | 27.05 | -62.05 | -13.00 | 49.05 | Horizontal |
| 3 | 4679 | 41.32 | -41.55 | 32.49 | -62.99 | -13.00 | 49.99 | Horizontal |
| 4 | 3119.36 | 40.99 | -43.97 | 29.52 | -68.72 | -13.00 | 55.72 | Horizontal |
| 5 | 3899.2 | 38.81 | -42.89 | 30.96 | -68.38 | -13.00 | 55.38 | Horizontal |
| 6 | 5458.88 | 37.69 | -40.71 | 33.11 | -65.17 | -13.00 | 52.17 | Horizontal |

Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| 1 | 1559.5 | 57.12 | -46.91 | 24.70 | -60.35 | -40.00 | 20.35 | Vertical |
| 2 | 2339.5 | 46.98 | -45.38 | 27.05 | -66.61 | -13.00 | 53.61 | Vertical |
| 3 | 3119.36 | 40.58 | -43.97 | 29.52 | -69.13 | -13.00 | 56.13 | Vertical |
| 4 | 3899.2 | 38.54 | -42.89 | 30.96 | -68.65 | -13.00 | 55.65 | Vertical |
| 5 | 4679.04 | 38.98 | -41.55 | 32.49 | -65.33 | -13.00 | 52.33 | Vertical |
| 6 | 5458.88 | 37.12 | -40.71 | 33.11 | -65.74 | -13.00 | 52.74 | Vertical |



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Test Band = LTE Band 13 5M_ TM1

Test Channel = High

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.5 | 60.91 | -46.89 | 24.69 | -56.55 | -40.00 | 16.55 | Horizontal |
| 2 | 2347.02 | 51.89 | -45.36 | 27.06 | -61.67 | -13.00 | 48.67 | Horizontal |
| 3 | 3129.36 | 41.26 | -43.96 | 29.53 | -68.44 | -13.00 | 55.44 | Horizontal |
| 4 | 3911.7 | 41.08 | -42.88 | 31.00 | -66.06 | -13.00 | 53.06 | Horizontal |
| 5 | 4694.04 | 41.25 | -41.50 | 32.53 | -62.98 | -13.00 | 49.98 | Horizontal |
| 6 | 5476.38 | 37.52 | -40.67 | 33.10 | -65.31 | -13.00 | 52.31 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2347 | 46.64 | -45.37 | 27.06 | -66.92 | -13.00 | 53.92 | Vertical |
| 2 | 1564.68 | 54.61 | -46.89 | 24.69 | -62.85 | -40.00 | 22.85 | Vertical |
| 3 | 3129.36 | 44.39 | -43.96 | 29.53 | -65.31 | -13.00 | 52.31 | Vertical |
| 4 | 3911.7 | 38.33 | -42.88 | 31.00 | -68.81 | -13.00 | 55.81 | Vertical |
| 5 | 4694.04 | 38.57 | -41.50 | 32.53 | -65.66 | -13.00 | 52.66 | Vertical |
| 6 | 5476.38 | 37.84 | -40.67 | 33.10 | -64.99 | -13.00 | 51.99 | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VL | NT | -5.30 | -0.006777 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VN | NT | -9.50 | -0.012148 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VH | NT | -10.40 | -0.013299 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -30 | -7.60 | -0.009719 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -20 | -4.20 | -0.005371 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -10 | -11.50 | -0.014706 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 0 | -2.60 | -0.003325 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 10 | -3.40 | -0.004348 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 20 | -10.30 | -0.013171 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 30 | -11.60 | -0.014834 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 40 | -5.90 | -0.007545 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 50 | -13.90 | -0.017775 | PASS |

---End of Attachment---



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

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