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Appendix B.6

LTE Band 7



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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 |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 21.36 | 22.6 | 33 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#12 | 21.42 | 22.66 | 33 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#24 | 21.49 | 22.73 | 33 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 20.48 | 21.72 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 22.59 | 23.83 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#12 | 22.75 | 23.99 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#24 | 22.71 | 23.95 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 21.75 | 22.99 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 22.26 | 23.5 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#12 | 22.07 | 23.31 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#24 | 21.99 | 23.23 | 33 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 21.2 | 22.44 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 20.75 | 21.99 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#12 | 20.77 | 22.01 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#24 | 20.76 | 22 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 19.55 | 20.79 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 21.99 | 23.23 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#12 | 21.96 | 23.2 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#24 | 22.03 | 23.27 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 20.8 | 22.04 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 21.61 | 22.85 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#12 | 21.44 | 22.68 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#24 | 21.34 | 22.58 | 33 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 20.18 | 21.42 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#0 | 19.73 | 20.97 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#12 | 19.7 | 20.94 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#24 | 19.71 | 20.95 | 33 | PASS |

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|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band7 | 5MHz | 64QAM | 20775 | 25RB#0 | 18.55 | 19.79 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#0 | 20.83 | 22.07 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#12 | 20.79 | 22.03 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#24 | 20.97 | 22.21 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 25RB#0 | 19.78 | 21.02 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#0 | 20.54 | 21.78 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#12 | 20.36 | 21.6 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#24 | 20.32 | 21.56 | 33 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 25RB#0 | 19.25 | 20.49 | 33 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 21.38 | 22.62 | 33 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#24 | 21.41 | 22.65 | 33 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#49 | 21.71 | 22.95 | 33 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 20.59 | 21.83 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 22.65 | 23.89 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#24 | 22.63 | 23.87 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#49 | 22.61 | 23.85 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 21.76 | 23 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 22.32 | 23.56 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#24 | 22.18 | 23.42 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#49 | 22 | 23.24 | 33 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 21.21 | 22.45 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 20.87 | 22.11 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24 | 20.77 | 22.01 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49 | 21.01 | 22.25 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 19.62 | 20.86 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 21.93 | 23.17 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24 | 21.97 | 23.21 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49 | 22.12 | 23.36 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 20.69 | 21.93 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 21.61 | 22.85 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24 | 21.49 | 22.73 | 33 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49 | 21.26 | 22.5 | 33 | PASS |



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|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 20.14 | 21.38 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#0 | 19.68 | 20.92 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#24 | 19.76 | 21 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#49 | 19.92 | 21.16 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 50RB#0 | 18.59 | 19.83 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 1RB#0 | 20.81 | 22.05 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 1RB#24 | 20.94 | 22.18 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 1RB#49 | 20.96 | 22.2 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 50RB#0 | 19.73 | 20.97 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#0 | 20.61 | 21.85 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#24 | 20.4 | 21.64 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#49 | 20.3 | 21.54 | 33 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 50RB#0 | 19.12 | 20.36 | 33 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 21.37 | 22.61 | 33 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#38 | 21.56 | 22.8 | 33 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#74 | 21.82 | 23.06 | 33 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 20.61 | 21.85 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 22.33 | 23.57 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#38 | 22.47 | 23.71 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#74 | 22.51 | 23.75 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 21.66 | 22.9 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 22.4 | 23.64 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#38 | 22.22 | 23.46 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#74 | 21.92 | 23.16 | 33 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 21.28 | 22.52 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 20.66 | 21.9 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38 | 20.96 | 22.2 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74 | 21.13 | 22.37 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 19.63 | 20.87 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 21.82 | 23.06 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38 | 21.8 | 23.04 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74 | 21.96 | 23.2 | 33 | PASS |

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|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 20.69 | 21.93 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 21.76 | 23 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38 | 21.61 | 22.85 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74 | 21.17 | 22.41 | 33 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 20.25 | 21.49 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#0 | 19.6 | 20.84 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#38 | 19.81 | 21.05 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#74 | 19.95 | 21.19 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 75RB#0 | 18.62 | 19.86 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#0 | 20.57 | 21.81 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#38 | 20.86 | 22.1 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#74 | 20.85 | 22.09 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 75RB#0 | 19.64 | 20.88 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#0 | 20.54 | 21.78 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#38 | 20.48 | 21.72 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#74 | 20.27 | 21.51 | 33 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 75RB#0 | 19.3 | 20.54 | 33 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 21.36 | 22.6 | 33 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#49 | 21.56 | 22.8 | 33 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#99 | 22.03 | 23.27 | 33 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 20.69 | 21.93 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 22.28 | 23.52 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#49 | 22.55 | 23.79 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#99 | 22.55 | 23.79 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 21.63 | 22.87 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 22.58 | 23.82 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#49 | 22.22 | 23.46 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#99 | 21.88 | 23.12 | 33 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 21.27 | 22.51 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 20.67 | 21.91 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49 | 20.92 | 22.16 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99 | 21.39 | 22.63 | 33 | PASS |

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| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 19.72 | 20.96 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 21.63 | 22.87 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49 | 21.9 | 23.14 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99 | 21.84 | 23.08 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 20.57 | 21.81 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 21.85 | 23.09 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49 | 21.68 | 22.92 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99 | 21.23 | 22.47 | 33 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 20.16 | 21.4 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#0 | 19.52 | 20.76 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#49 | 19.84 | 21.08 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#99 | 20.28 | 21.52 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 18.73 | 19.97 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#0 | 20.4 | 21.64 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#49 | 20.9 | 22.14 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#99 | 20.9 | 22.14 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 19.61 | 20.85 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 1RB#0 | 20.82 | 22.06 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 1RB#49 | 20.54 | 21.78 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 1RB#99 | 20.18 | 21.42 | 33 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 19.3 | 20.54 | 33 | PASS |

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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 5.36 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 5.28 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 5.32 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 6.06 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 6.10 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 6.06 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 6.64 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 6.62 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 6.62 | 13 | PASS |

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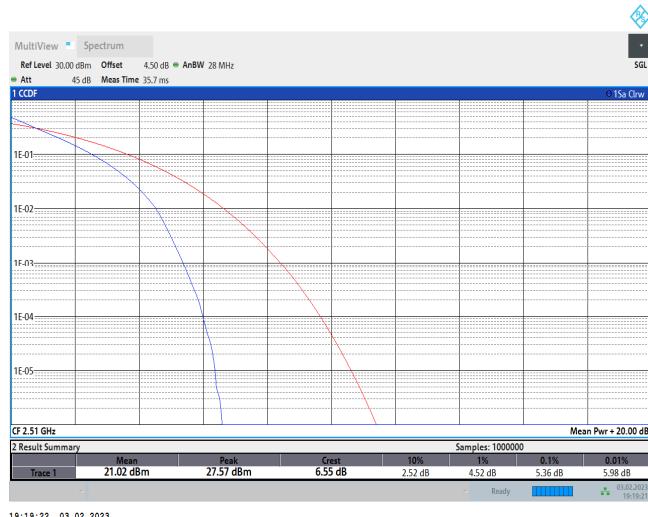
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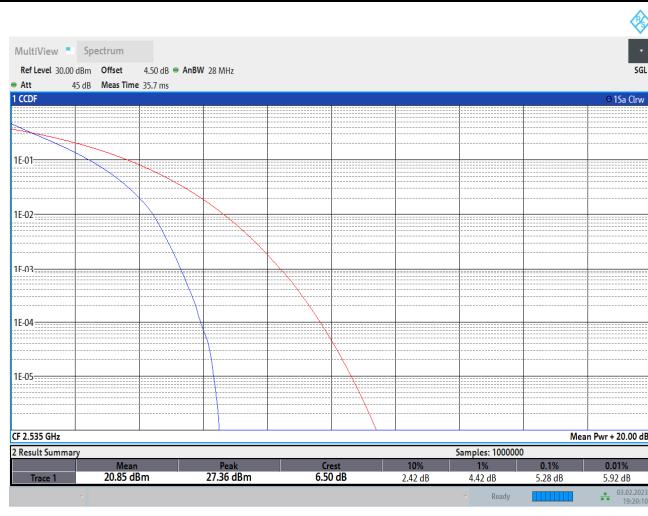
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Test Graphs

Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



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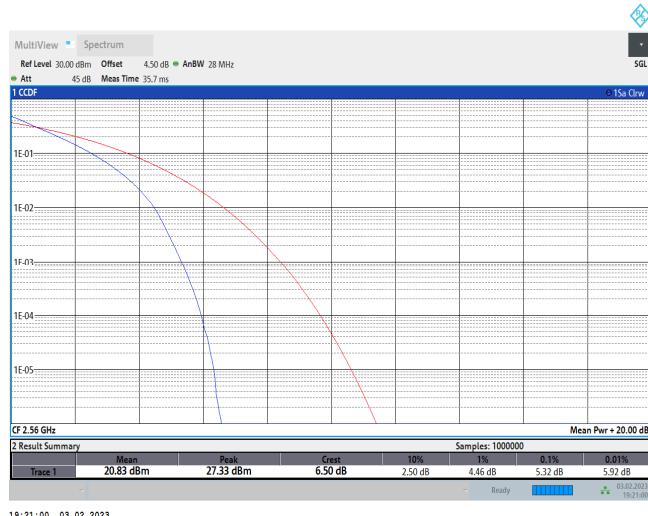
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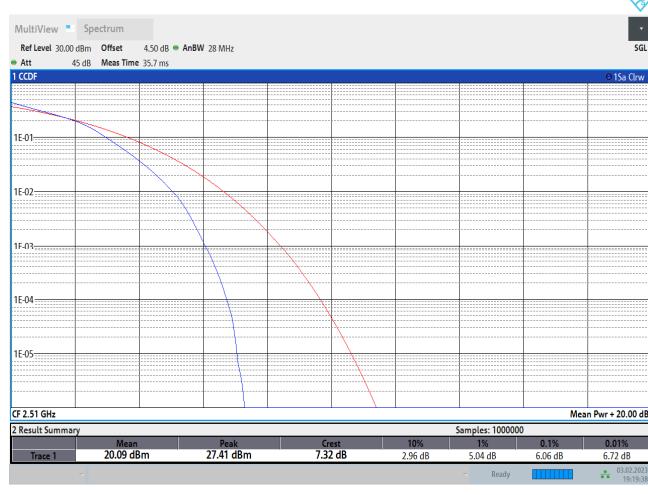
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Band7-20MHz-QPSK-21350-100RB#0



19:21:00 03.02.2023

Band7-20MHz-16QAM-20850-100RB#0



19:19:38 03.02.2023

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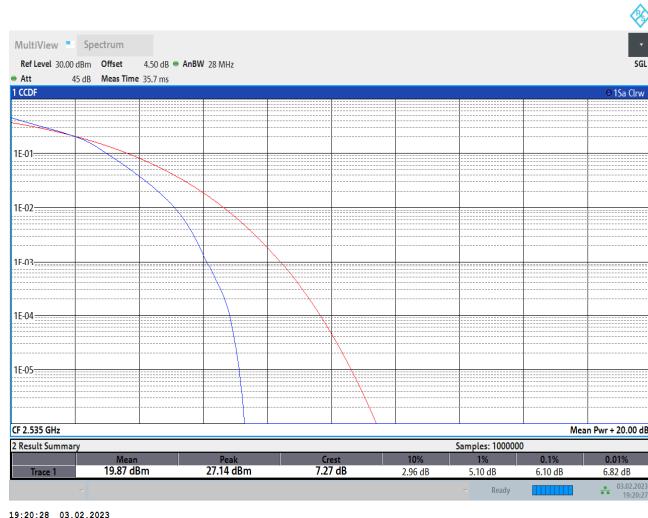


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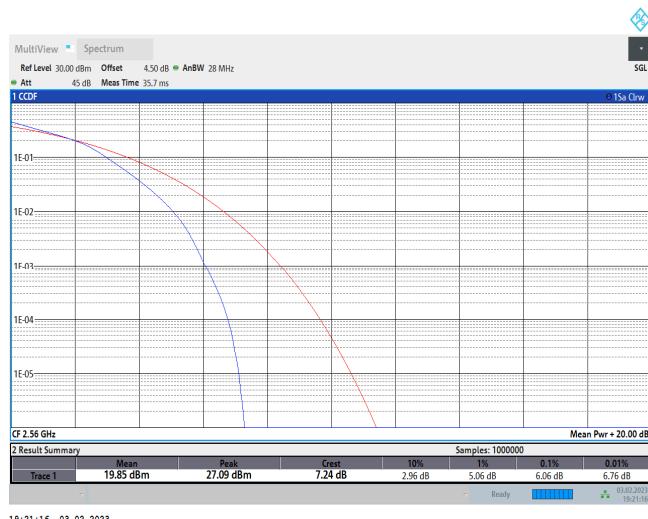
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0



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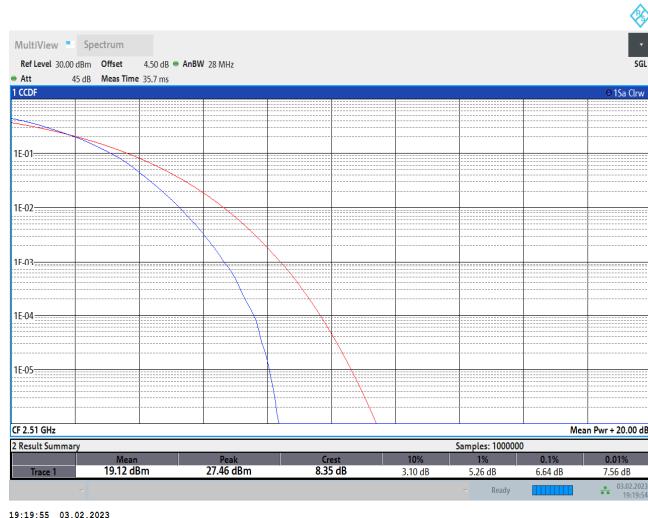
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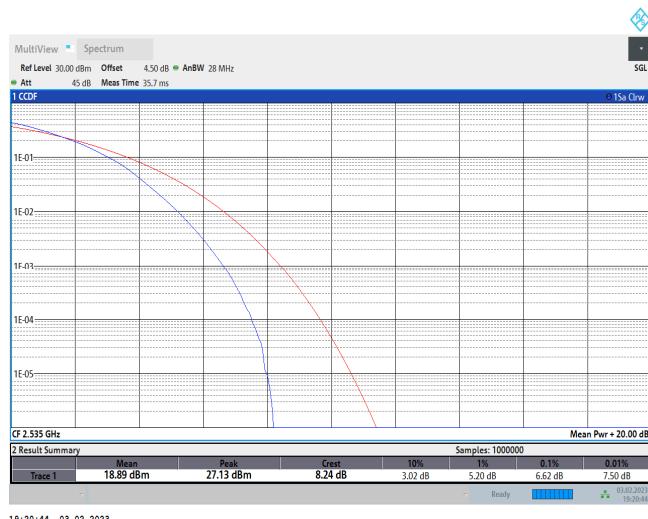
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Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21100-100RB#0



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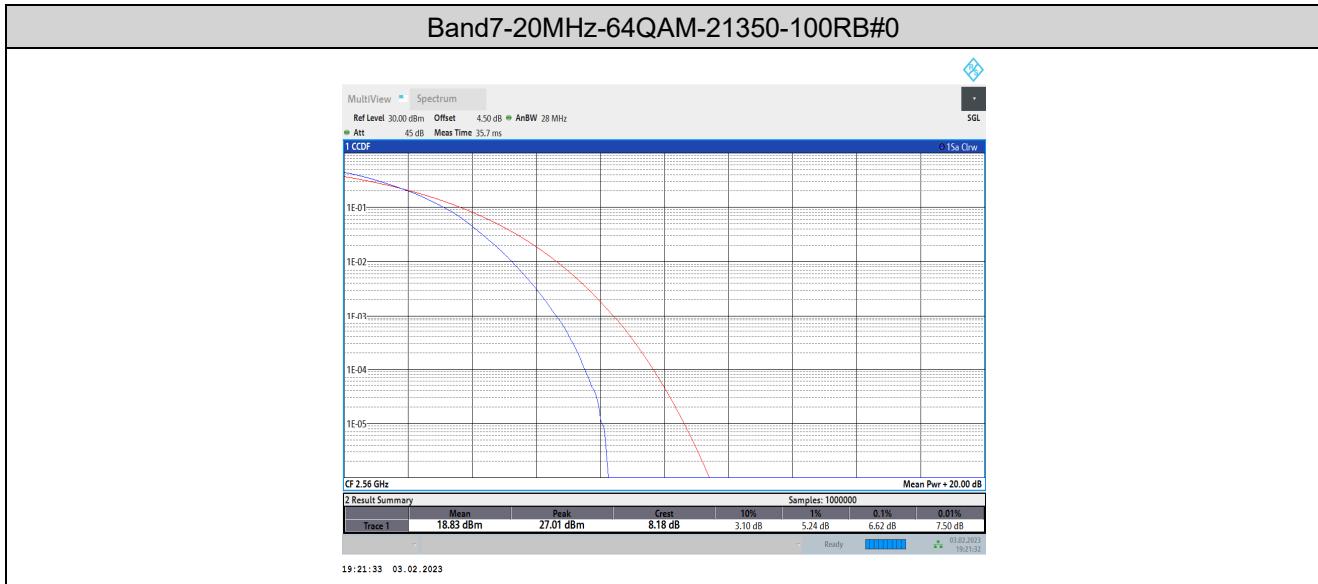
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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 4.468 | 4.89 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 4.469 | 4.88 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 4.471 | 4.89 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 4.468 | 4.90 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 4.462 | 4.90 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 4.463 | 4.92 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 25RB#0 | 4.473 | 4.89 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 25RB#0 | 4.479 | 4.91 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 25RB#0 | 4.473 | 4.90 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 8.934 | 9.62 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 8.926 | 9.60 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 8.927 | 9.64 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 8.917 | 9.62 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 8.908 | 9.62 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 8.9 | 9.56 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 50RB#0 | 8.929 | 9.66 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 50RB#0 | 8.923 | 9.62 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 50RB#0 | 8.919 | 9.66 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 13.457 | 14.73 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 13.461 | 14.79 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 13.45 | 14.73 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 13.462 | 14.76 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 13.437 | 14.70 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 13.44 | 14.76 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 75RB#0 | 13.468 | 14.79 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 75RB#0 | 13.435 | 14.79 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 75RB#0 | 13.428 | 14.76 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 17.912 | 19.52 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 17.892 | 19.60 | PASS |

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| | | | | | | | |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 17.896 | 19.32 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 17.891 | 19.44 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 17.861 | 19.44 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 17.881 | 19.40 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 17.886 | 19.44 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 17.874 | 19.44 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 17.869 | 19.48 | PASS |



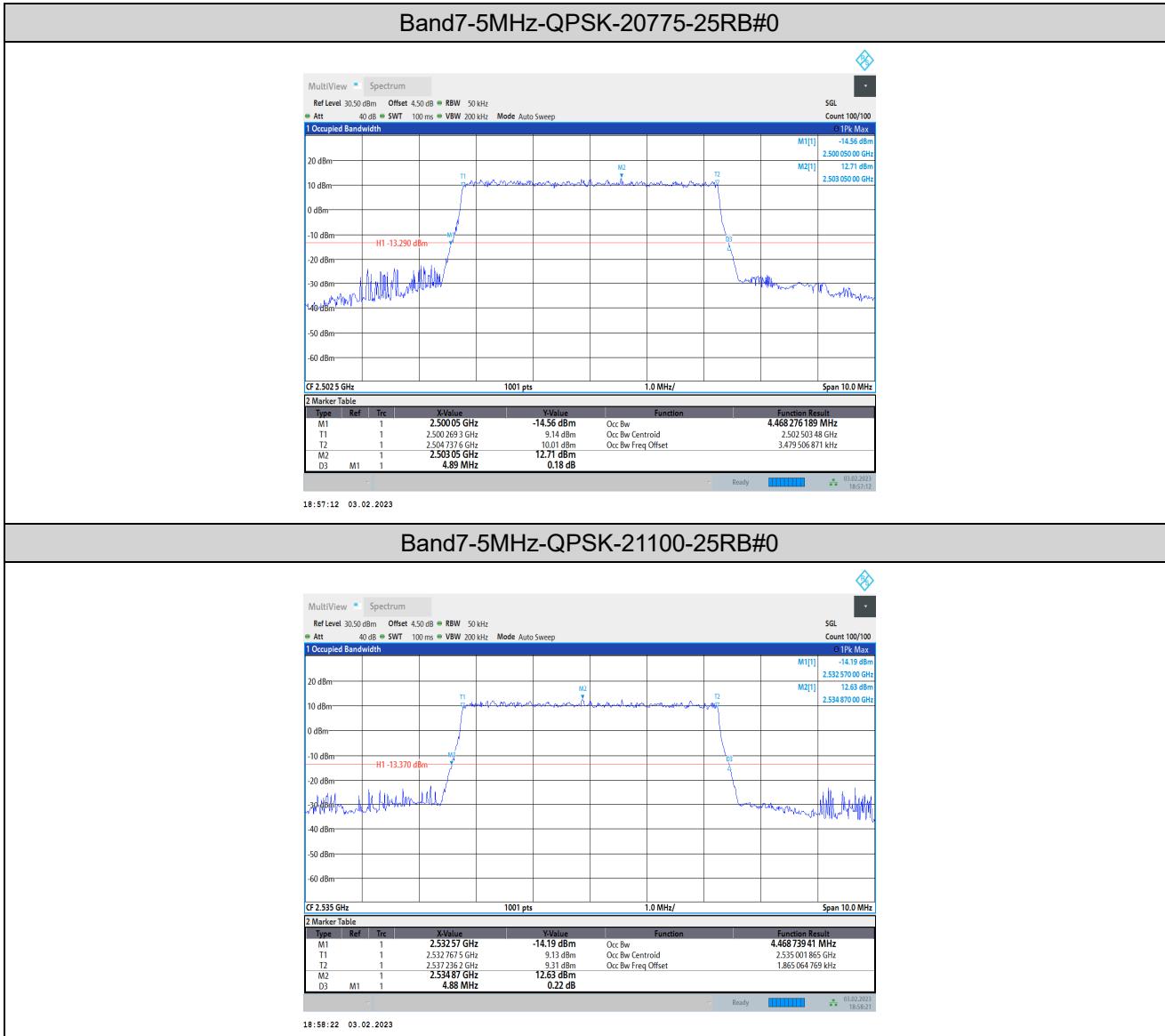
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Test Graphs



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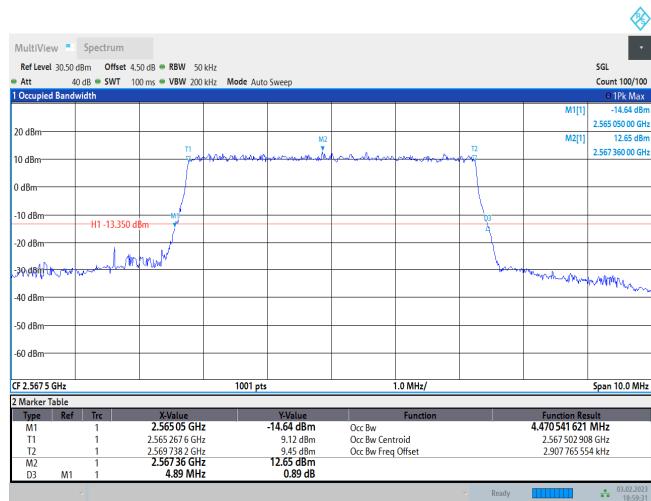
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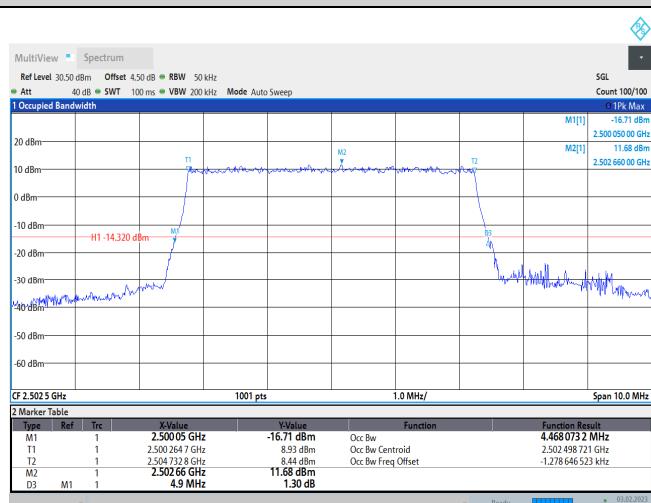
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Band7-5MHz-16QAM-20775-25BB#0



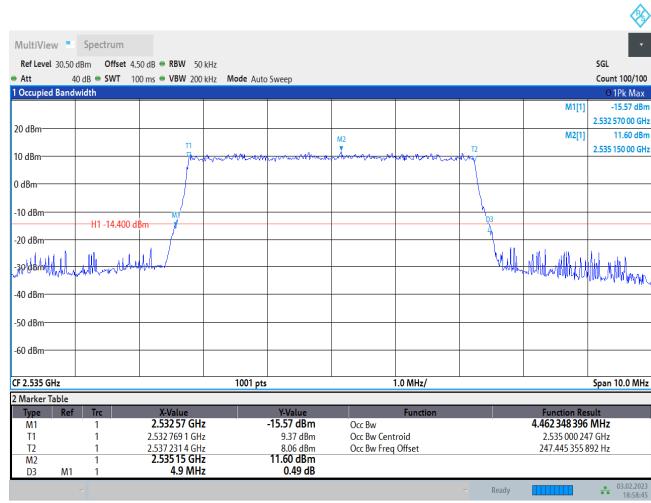
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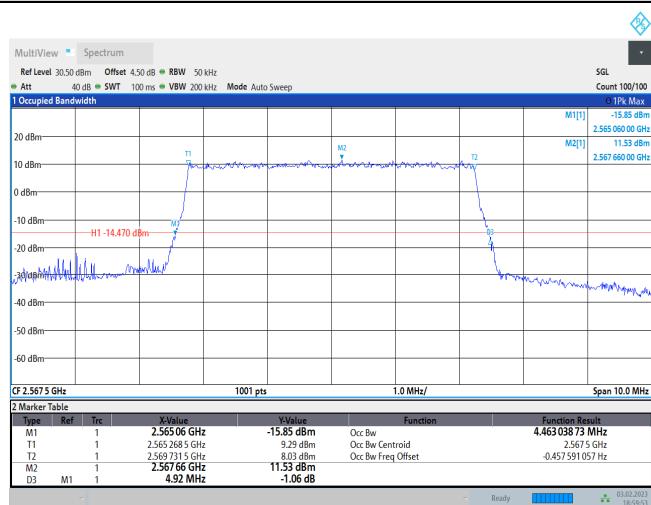


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Band7-5MHz-16QAM-21100-25RB#0



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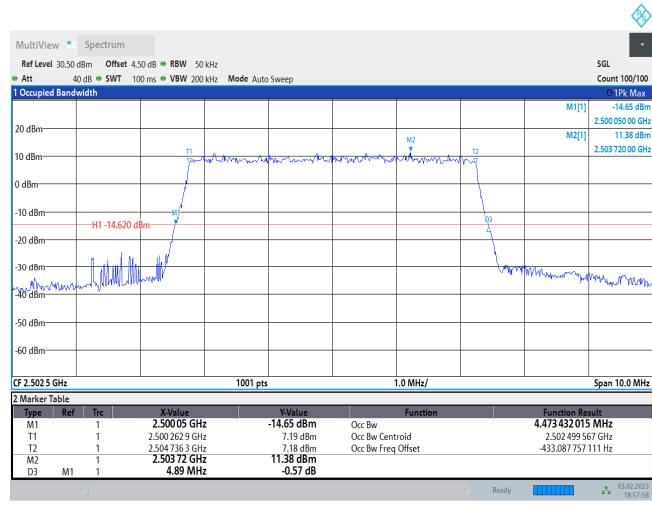
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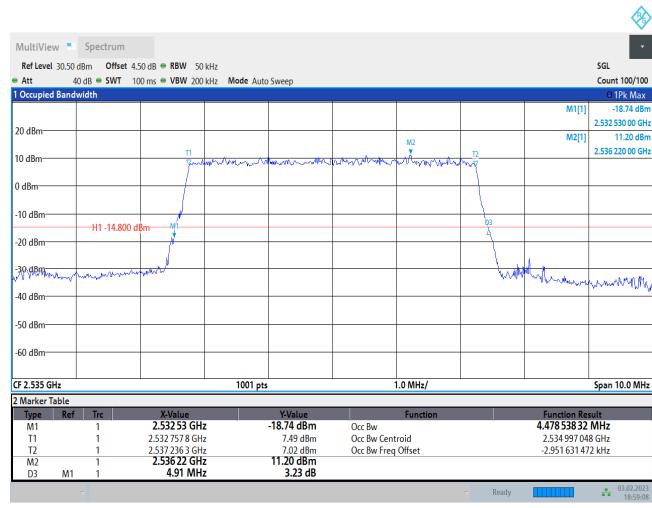
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18:57:59 03.02.2023

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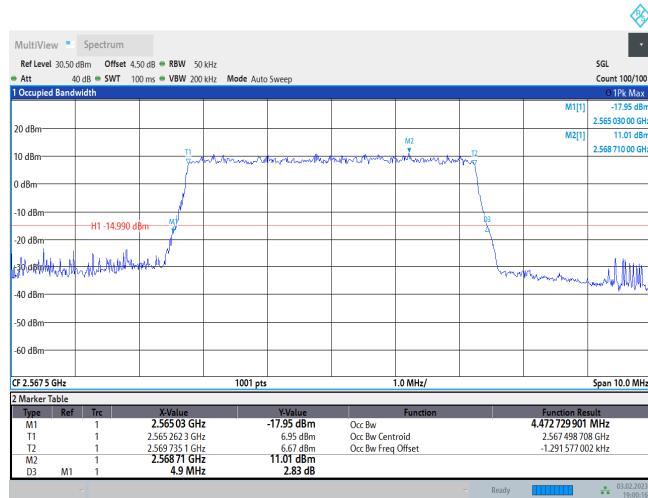
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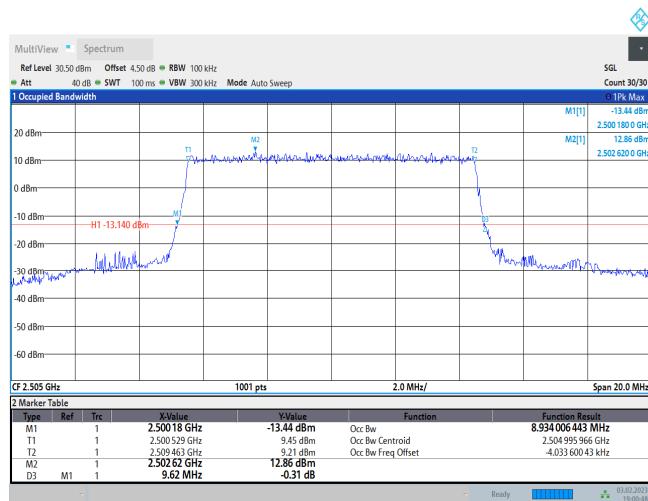
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Band7-5MHz-64QAM-21425-25RB#0



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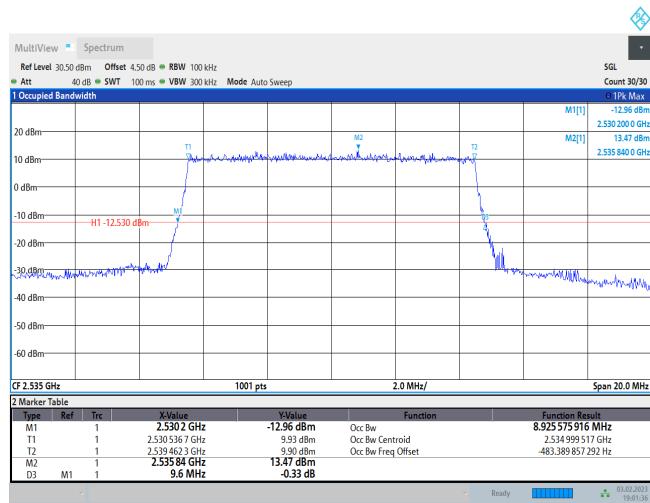
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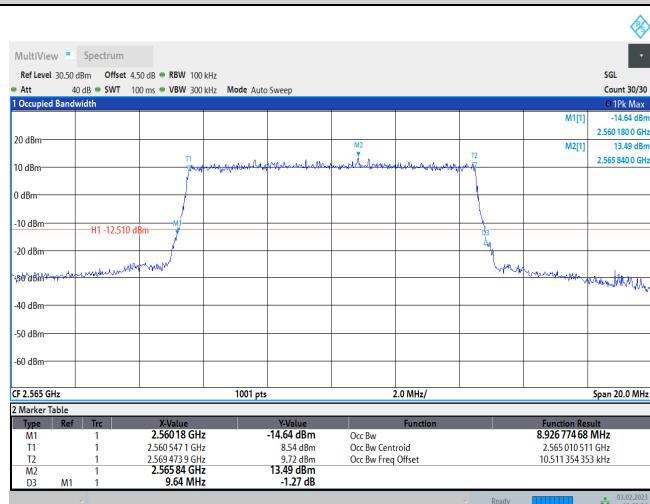
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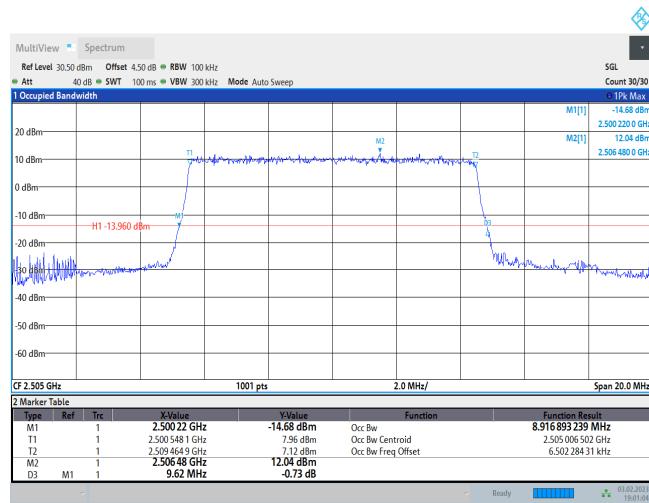
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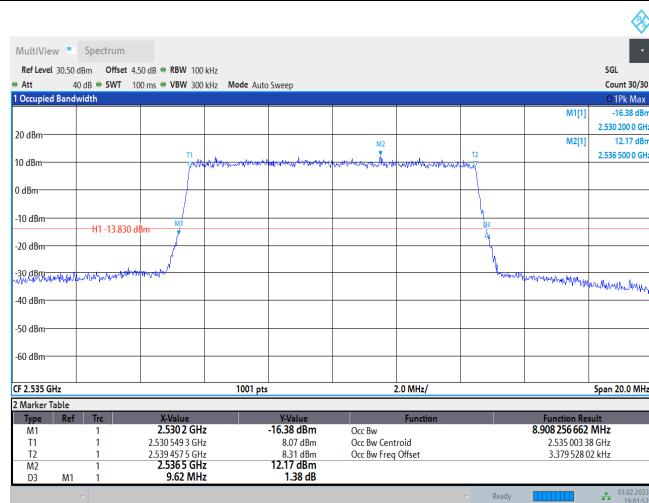
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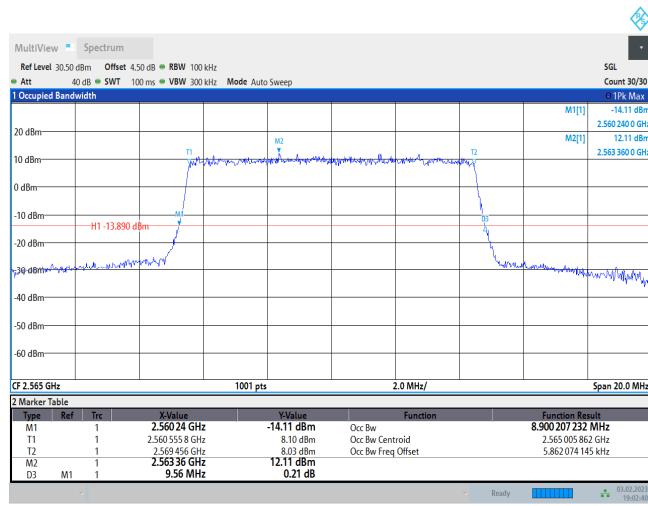
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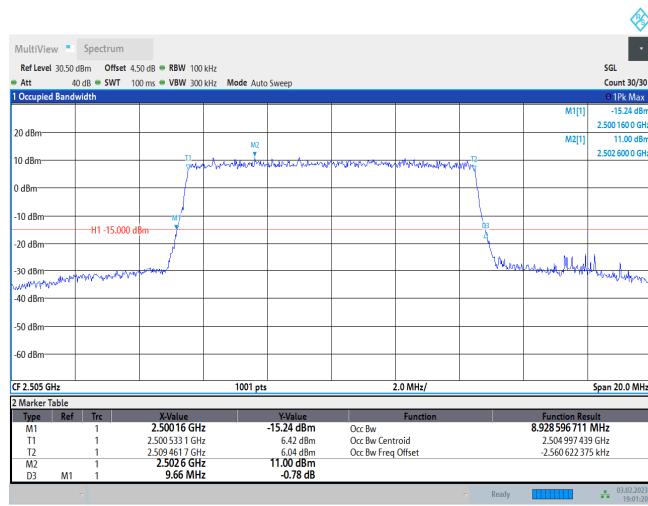
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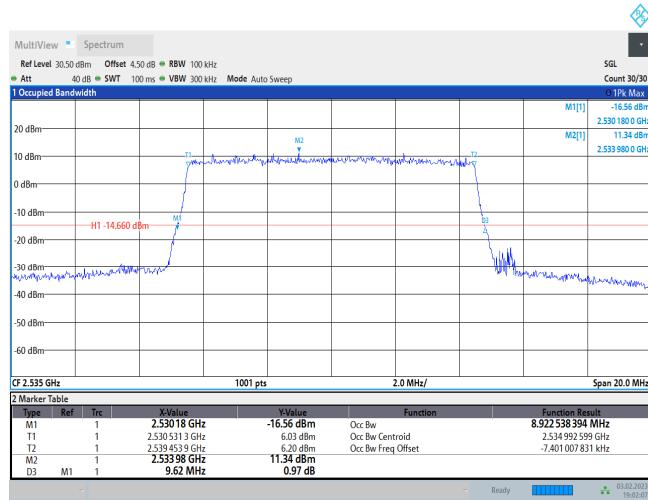
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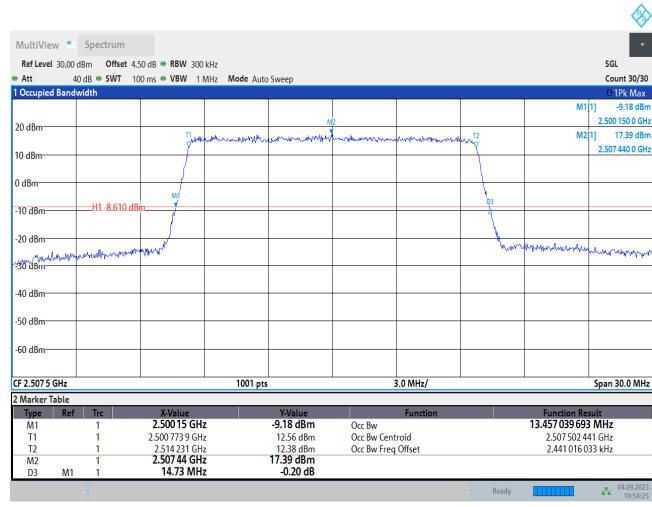
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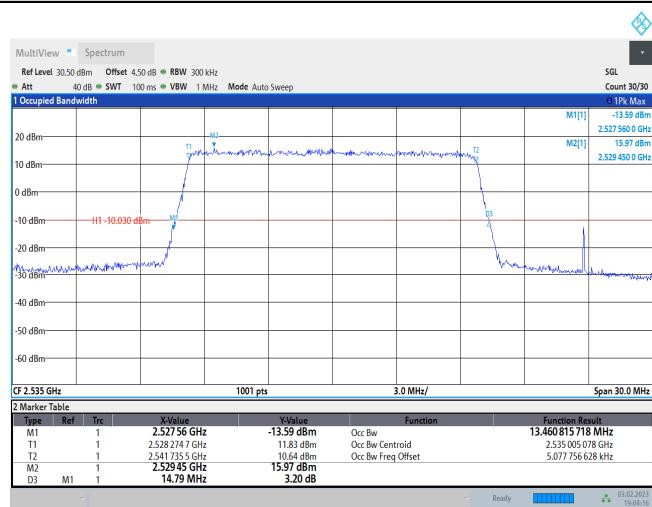
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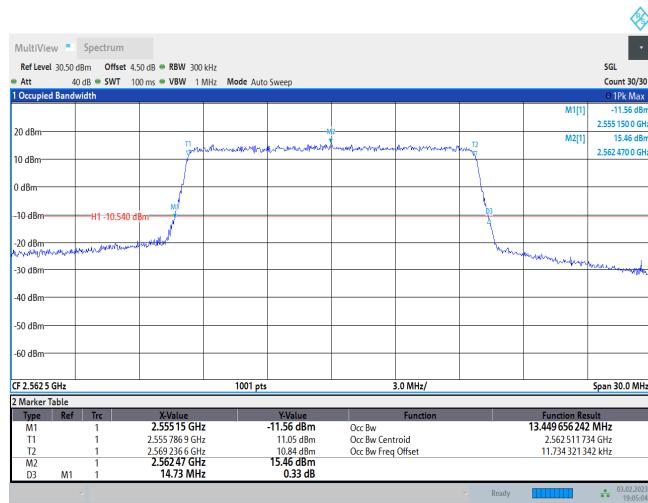
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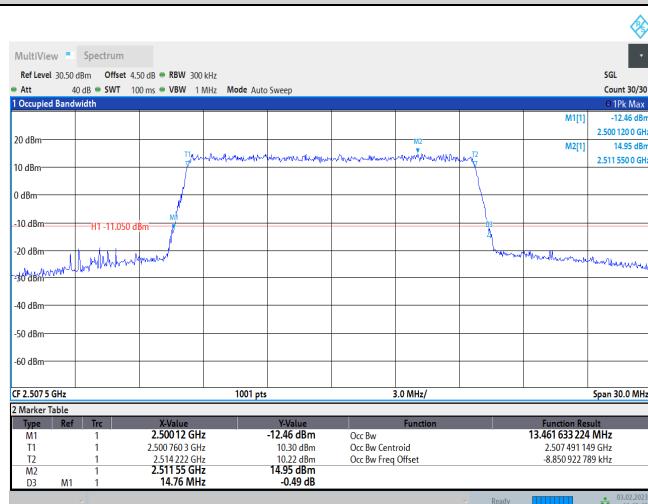
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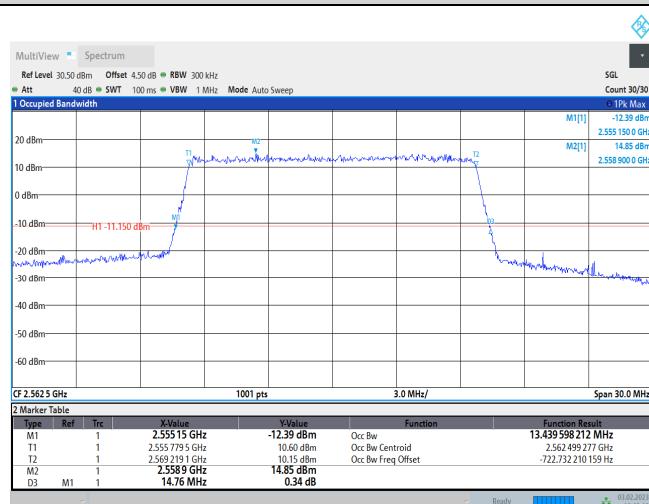
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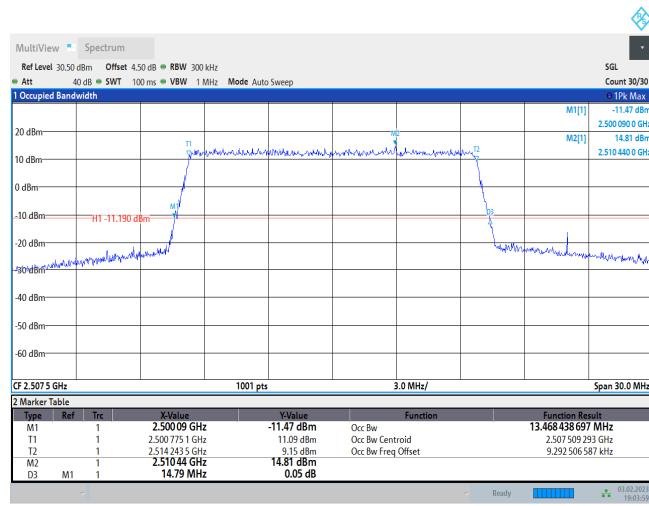
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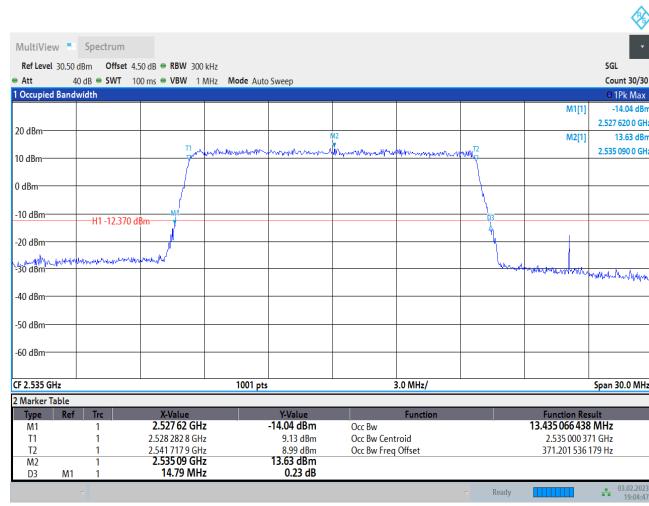
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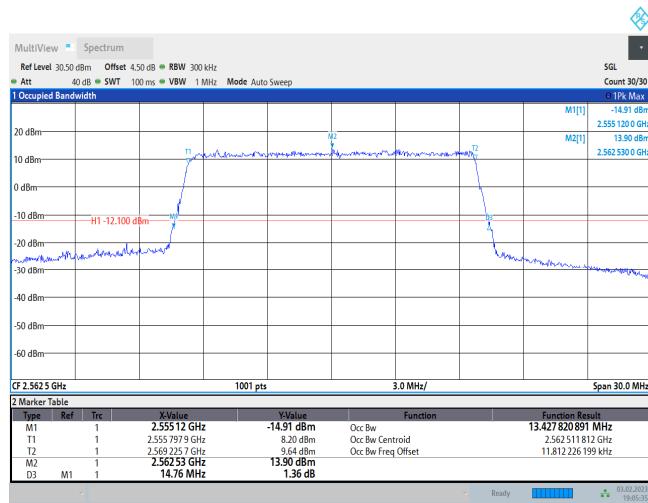
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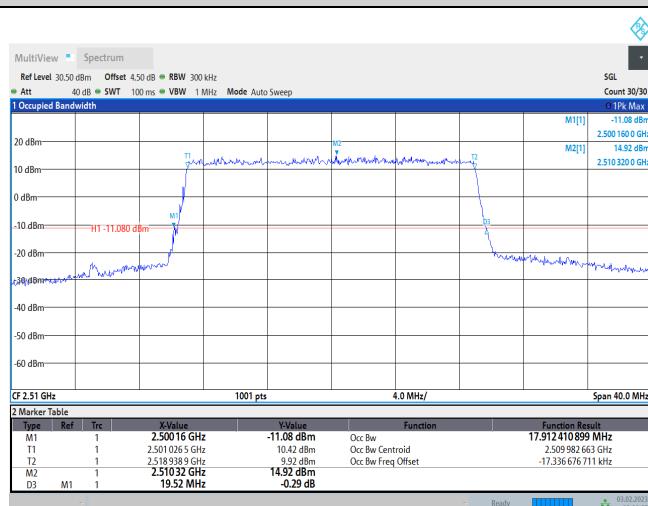
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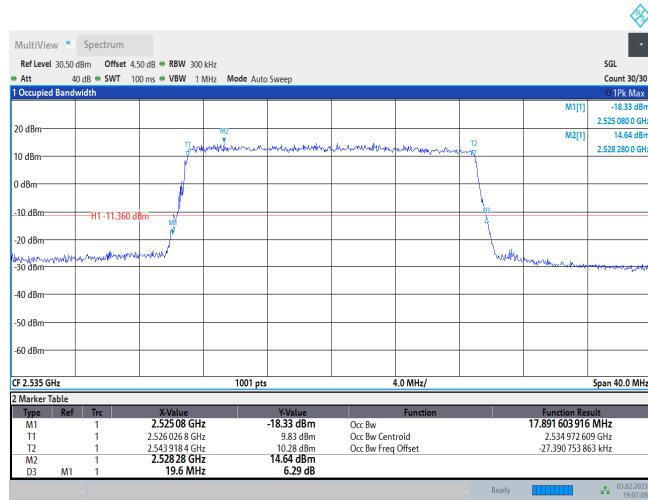
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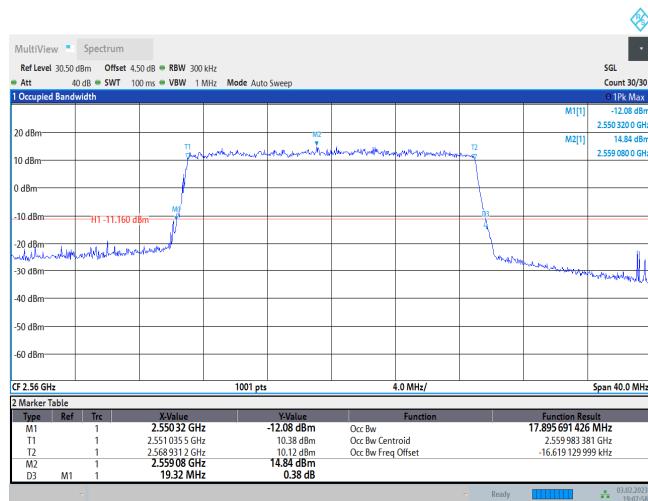
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Band7-20MHz-QPSK-21350-100RB#0



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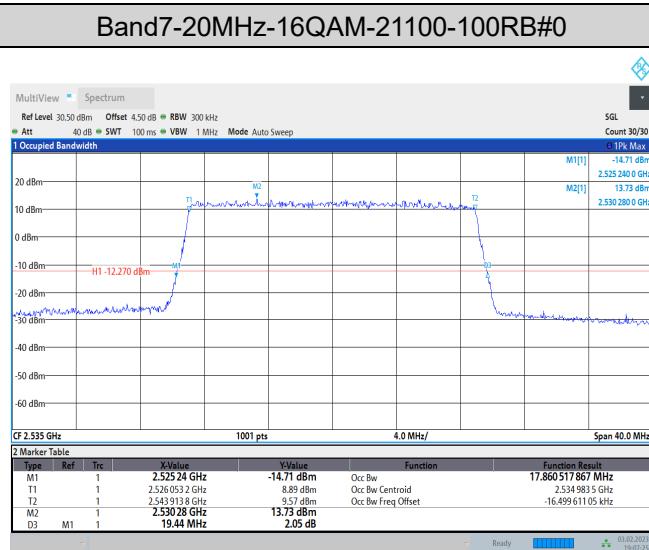
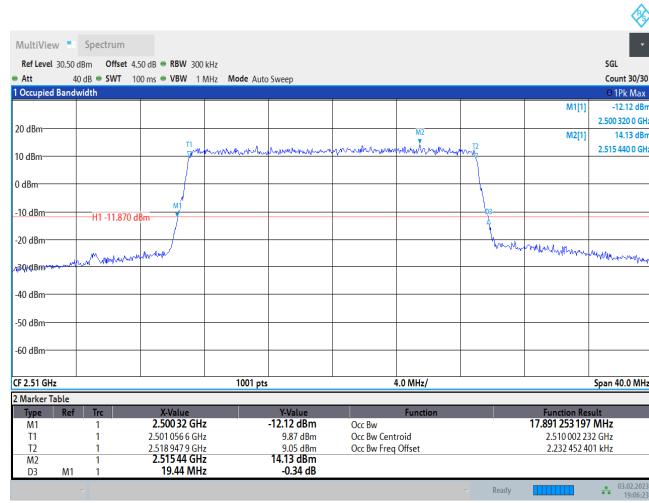
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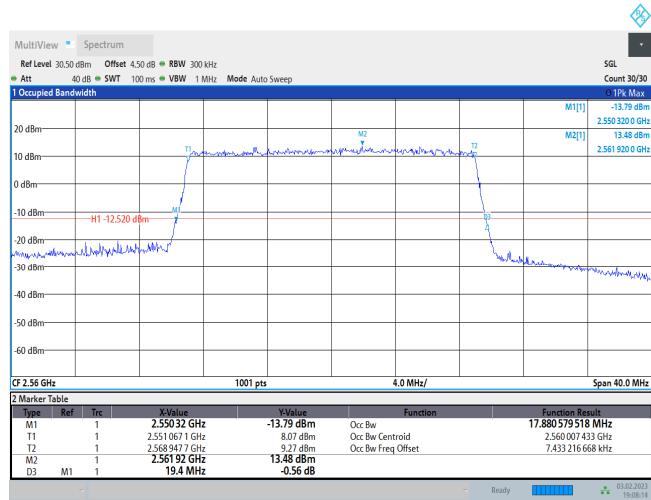
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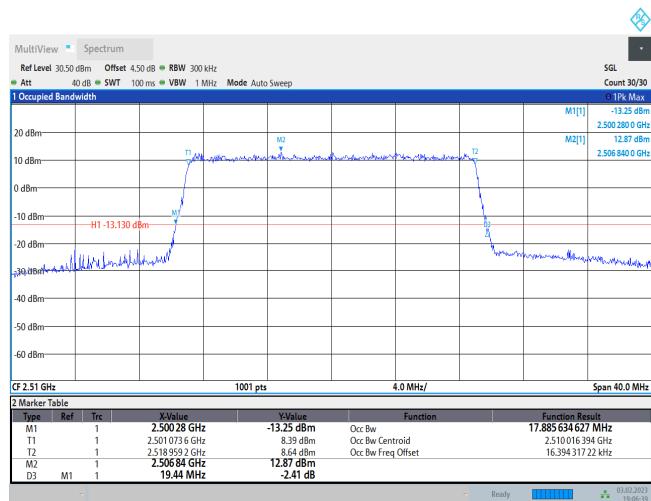
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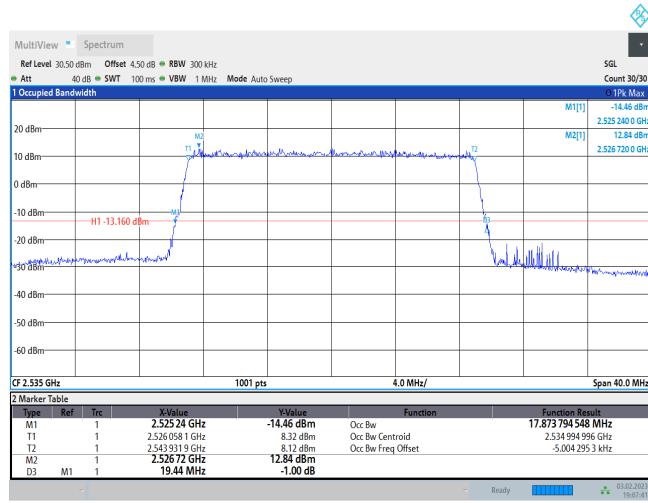
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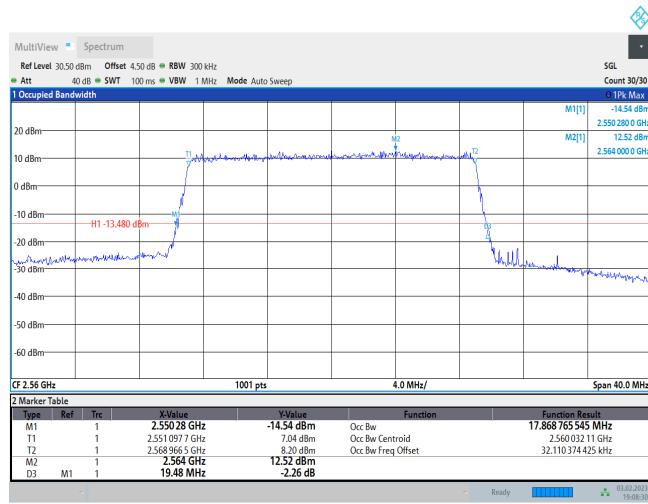
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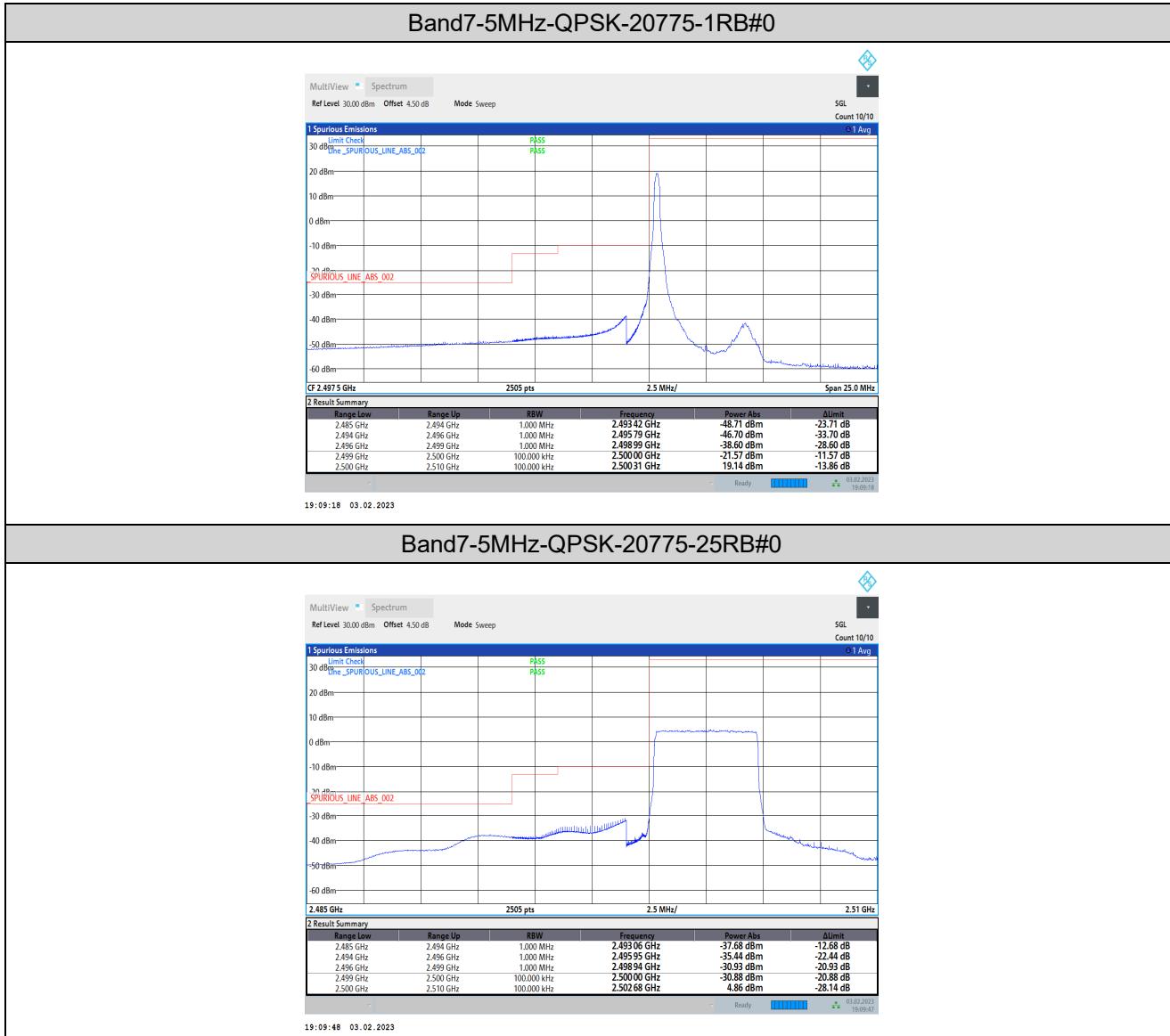


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Band Edge

Test Graphs



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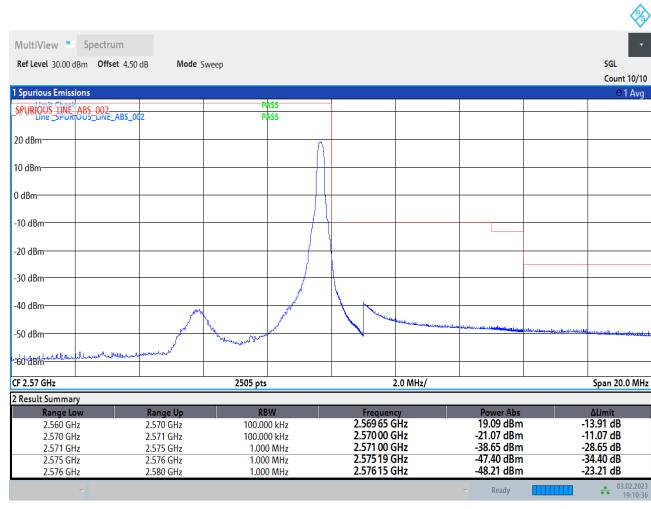
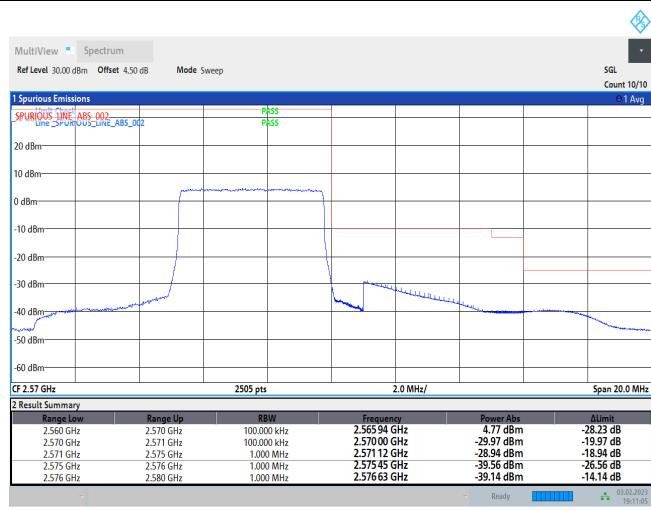


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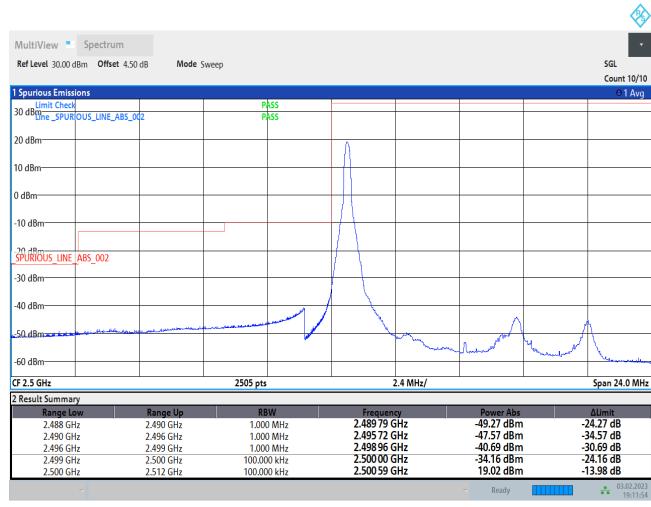
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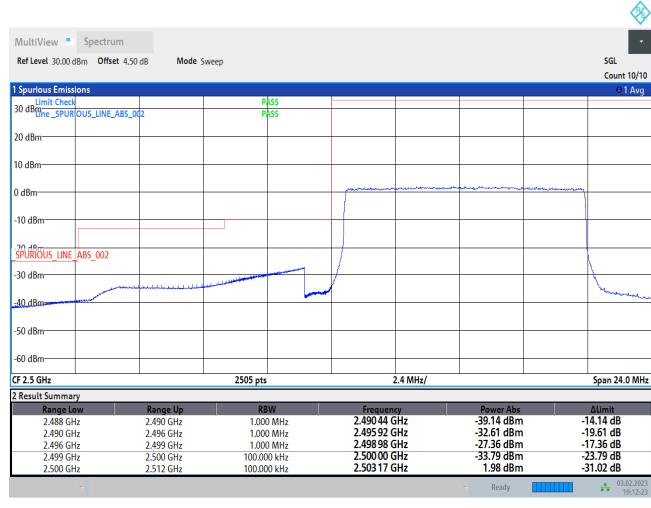
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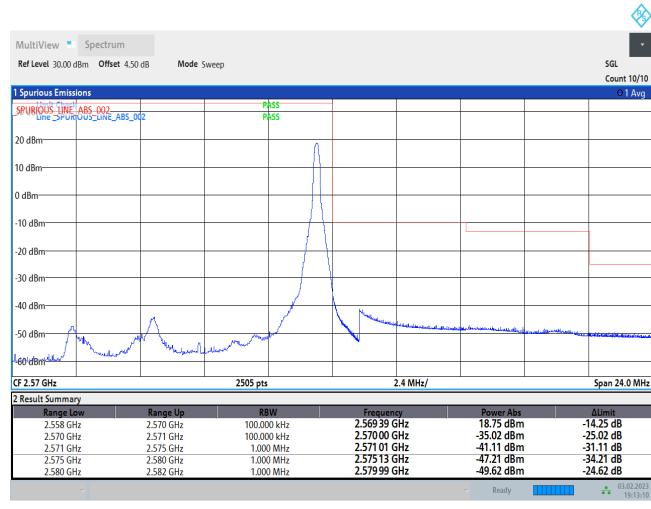


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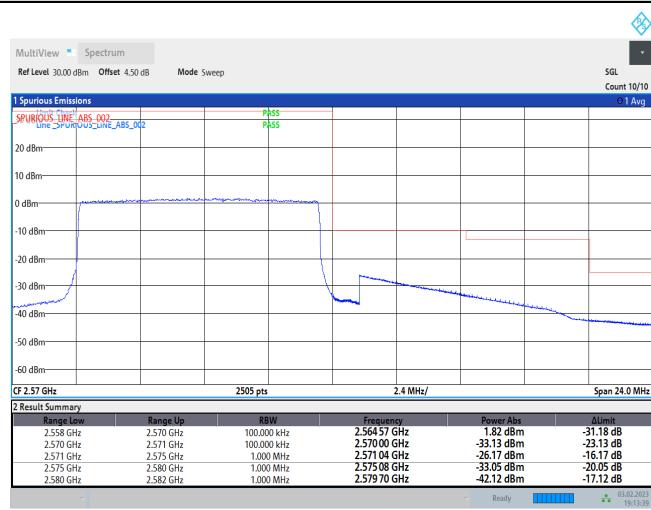
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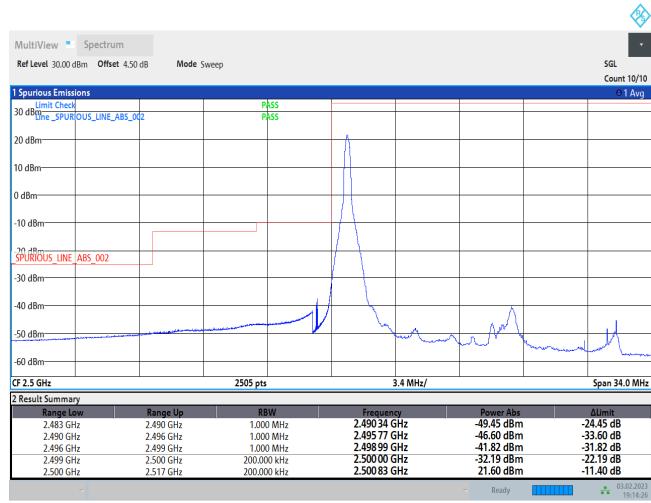
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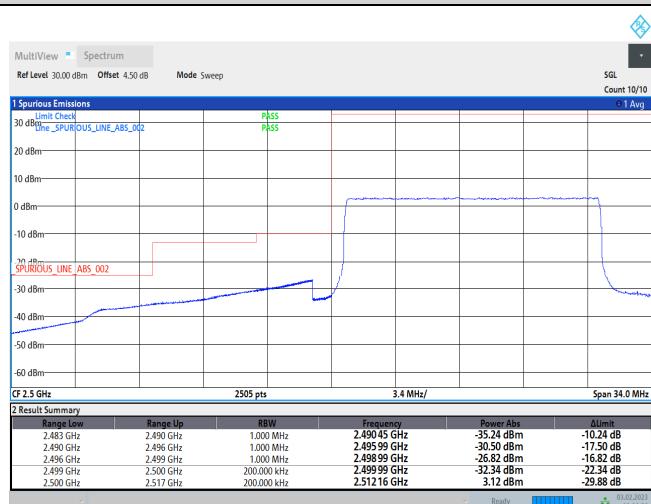
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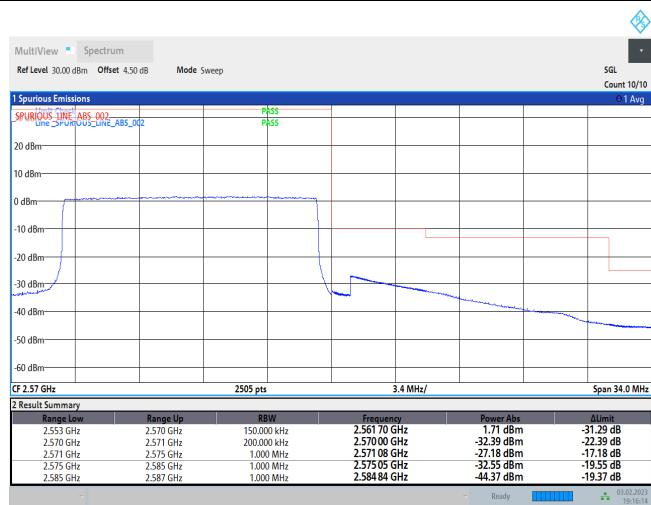
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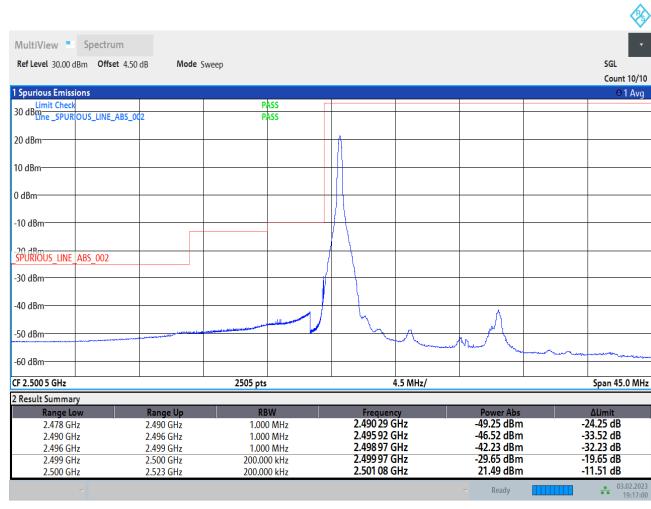
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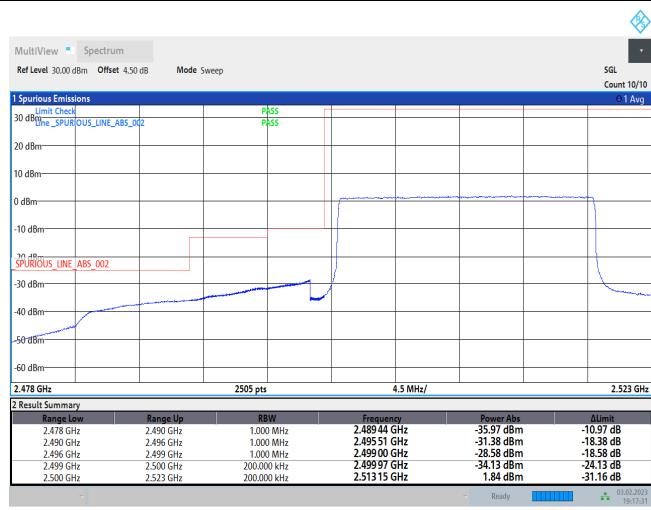
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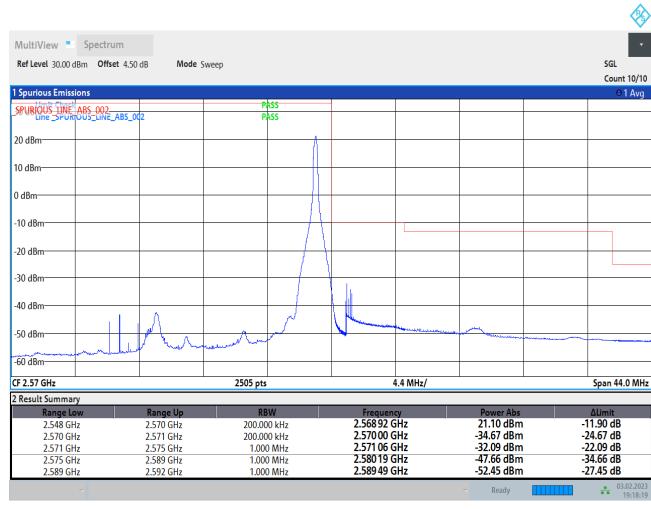


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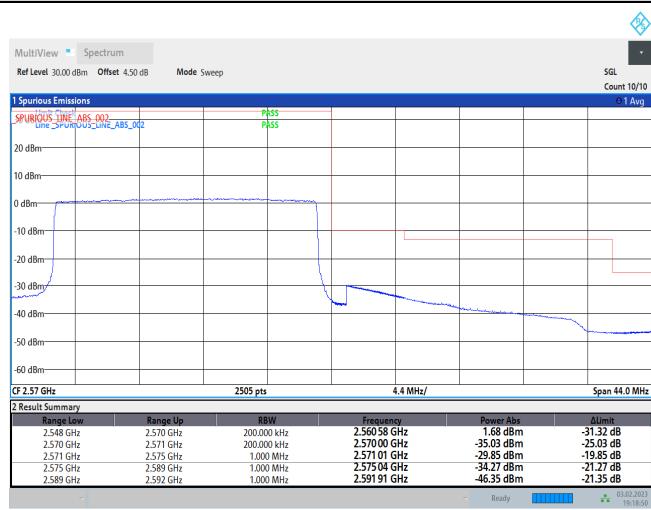
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Conducted Spurious Emission

Test Graphs



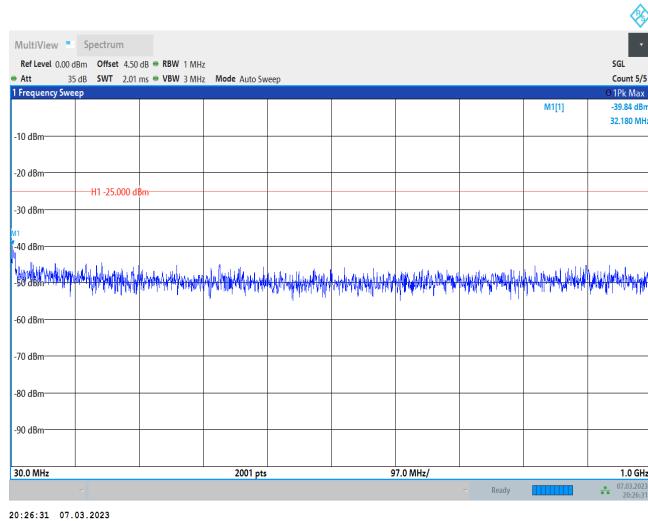
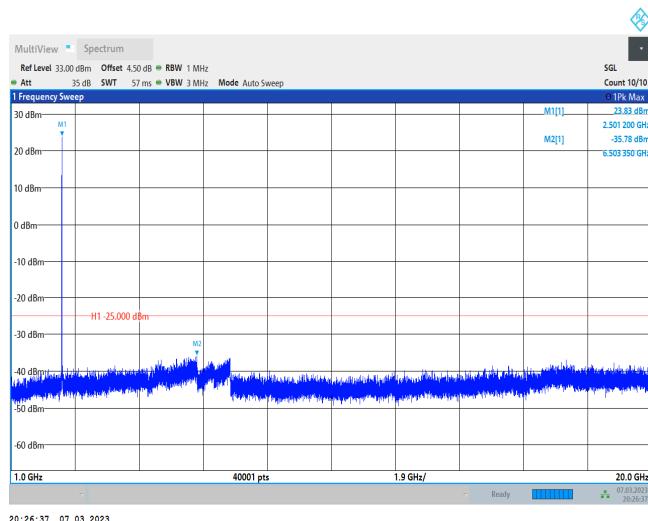
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz**Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz**

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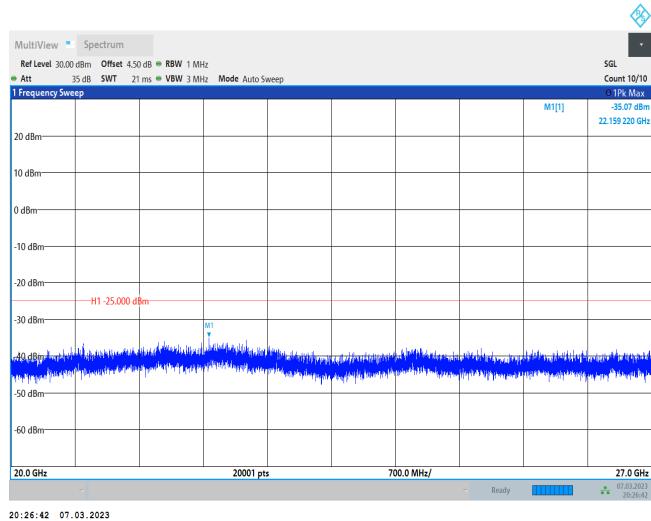


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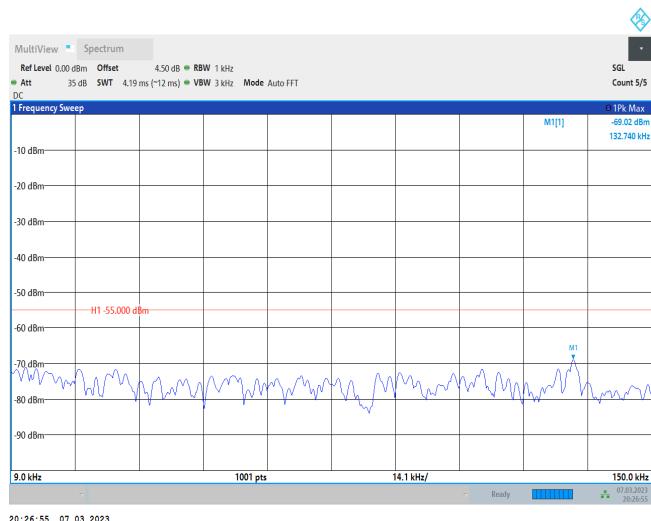
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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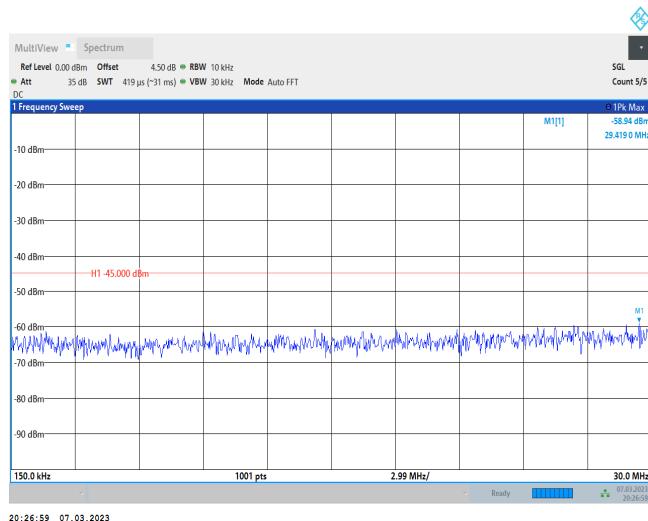


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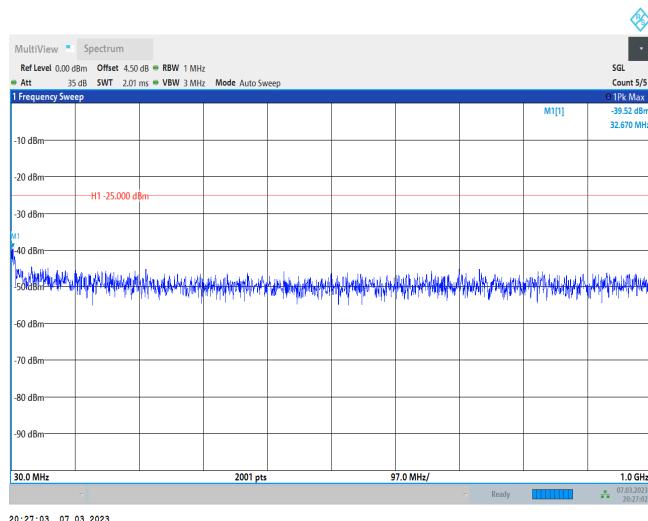
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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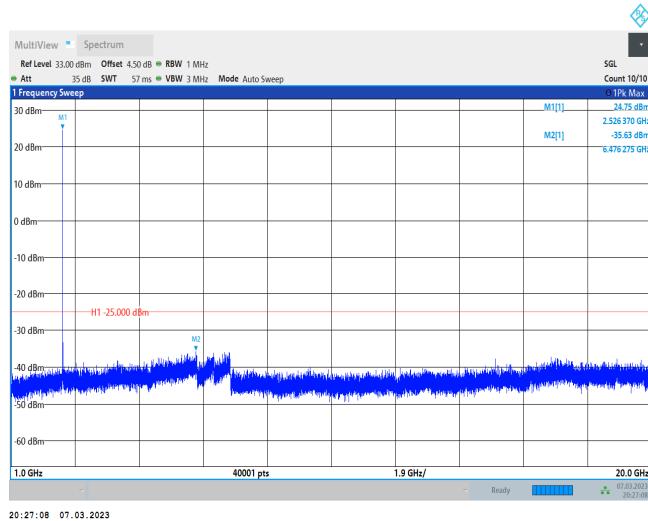
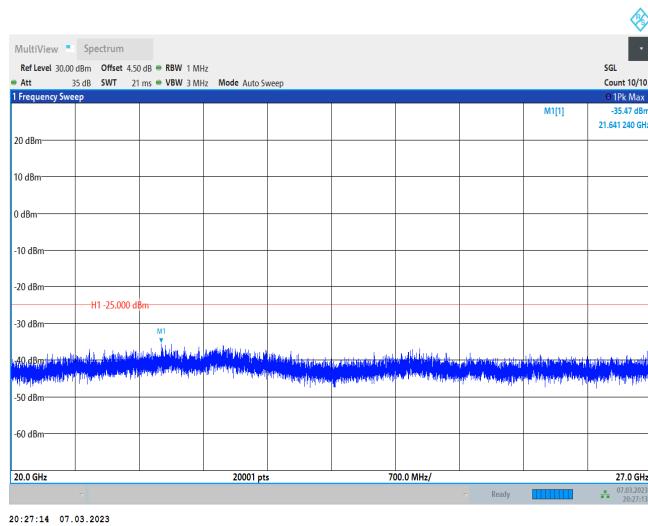
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz**Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz**

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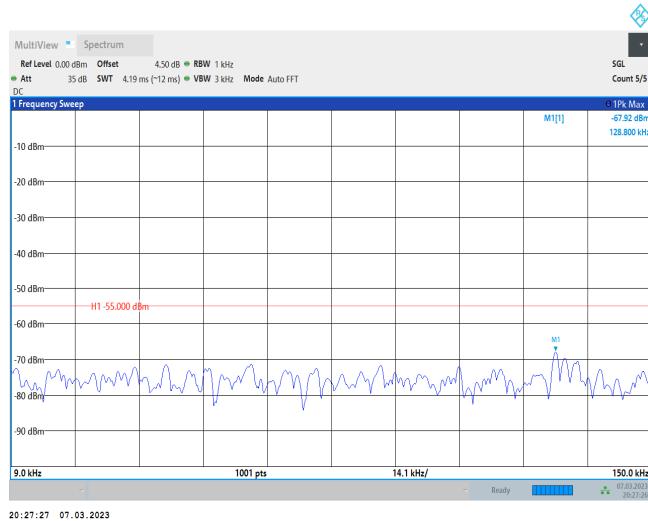


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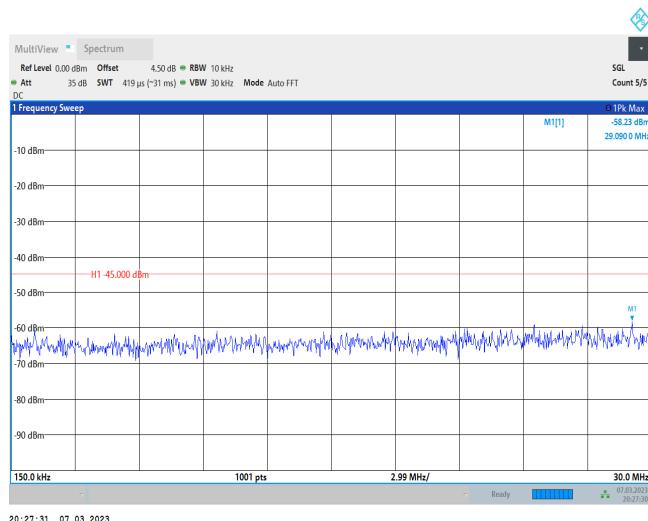
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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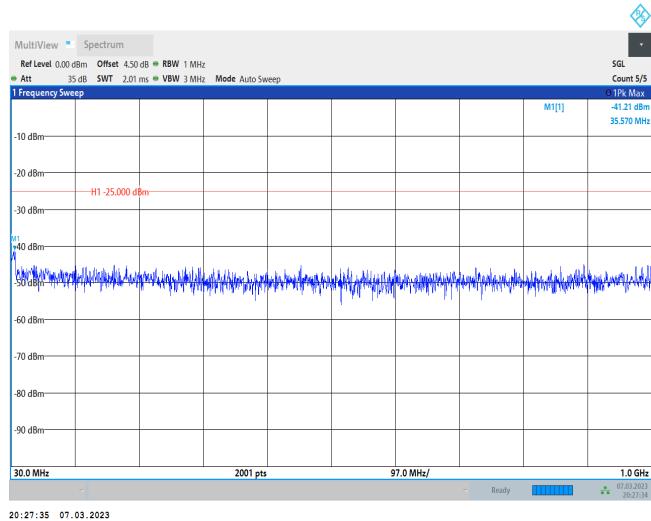


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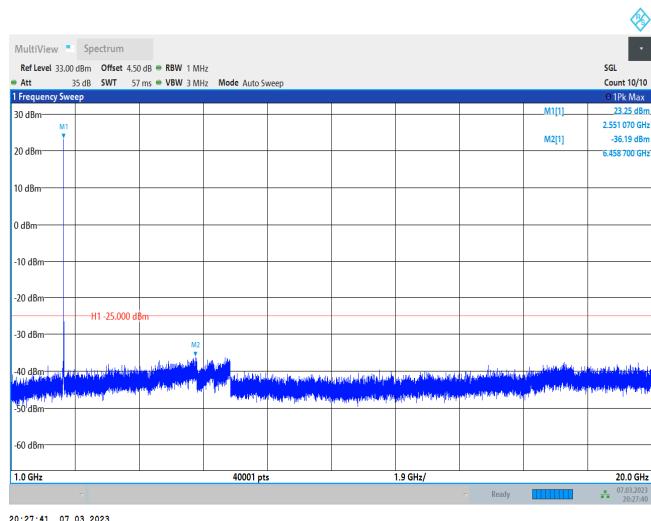
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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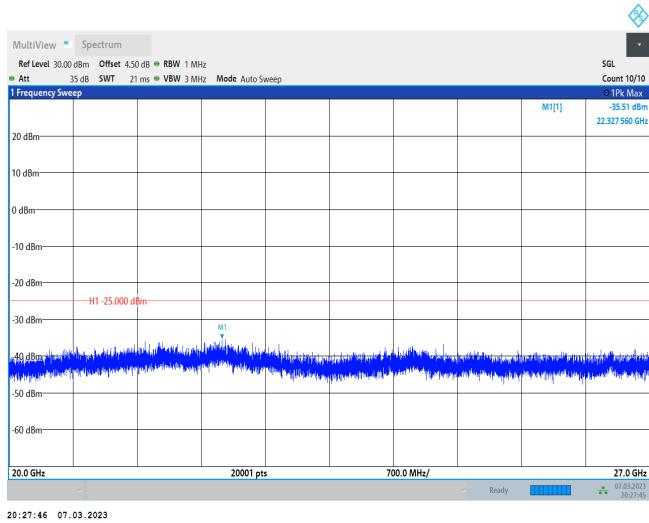
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1

Test Channel = Low Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5002.18 | 40.46 | -44.92 | 32.60 | -67.12 | -25.00 | 42.12 | 241 | 63 | Horizontal |
| 2 | 7503.27 | 39.08 | -41.59 | 36.51 | -61.26 | -25.00 | 36.26 | 142 | 148 | Horizontal |
| 3 | 10004.36 | 35.00 | -37.13 | 38.50 | -58.89 | -25.00 | 33.89 | 265 | 360 | Horizontal |
| 4 | 12505.45 | 31.36 | -35.23 | 39.11 | -60.02 | -25.00 | 35.02 | 285 | 20 | Horizontal |
| 5 | 15006.54 | 31.25 | -34.00 | 39.19 | -58.82 | -25.00 | 33.82 | 241 | 296 | Horizontal |
| 6 | 17507.63 | 29.93 | -31.88 | 40.63 | -56.58 | -25.00 | 31.58 | 146 | 188 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5002.18 | 40.66 | -44.92 | 32.60 | -66.92 | -25.00 | 41.92 | 206 | 147 | Vertical |
| 2 | 7503.27 | 38.85 | -41.59 | 36.51 | -61.49 | -25.00 | 36.49 | 296 | 187 | Vertical |
| 3 | 10004.36 | 34.67 | -37.13 | 38.50 | -59.22 | -25.00 | 34.22 | 265 | 334 | Vertical |
| 4 | 12505.45 | 32.01 | -35.23 | 39.11 | -59.37 | -25.00 | 34.37 | 241 | 294 | Vertical |
| 5 | 15006.54 | 31.06 | -34.00 | 39.19 | -59.01 | -25.00 | 34.01 | 142 | 359 | Vertical |
| 6 | 17507.63 | 30.40 | -31.88 | 40.63 | -56.11 | -25.00 | 31.11 | 266 | 104 | Vertical |

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Test Band = LTE Band 7_ TM1

Test Channel = Mid Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5052.18 | 41.29 | -44.60 | 32.60 | -65.97 | -25.00 | 40.97 | 263 | 148 | Horizontal |
| 2 | 7578.27 | 38.71 | -41.33 | 36.66 | -61.23 | -25.00 | 36.23 | 265 | 211 | Horizontal |
| 3 | 10104.36 | 34.09 | -36.80 | 38.61 | -59.35 | -25.00 | 34.35 | 284 | 20 | Horizontal |
| 4 | 12630.45 | 31.26 | -34.72 | 39.23 | -59.49 | -25.00 | 34.49 | 142 | 20 | Horizontal |
| 5 | 15156.54 | 31.37 | -33.29 | 39.00 | -58.18 | -25.00 | 33.18 | 285 | 233 | Horizontal |
| 6 | 17682.63 | 31.44 | -31.11 | 41.33 | -53.60 | -25.00 | 28.60 | 296 | 83 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5052.18 | 41.34 | -44.60 | 32.60 | -65.92 | -25.00 | 40.92 | 163 | 188 | Vertical |
| 2 | 7578.27 | 38.74 | -41.33 | 36.66 | -61.20 | -25.00 | 36.20 | 254 | 271 | Vertical |
| 3 | 10104.36 | 34.67 | -36.80 | 38.61 | -58.77 | -25.00 | 33.77 | 142 | 169 | Vertical |
| 4 | 12630.45 | 32.16 | -34.72 | 39.23 | -58.59 | -25.00 | 33.59 | 263 | 3 | Vertical |
| 5 | 15156.54 | 31.23 | -33.29 | 39.00 | -58.32 | -25.00 | 33.32 | 225 | 229 | Vertical |
| 6 | 17682.63 | 31.02 | -31.11 | 41.33 | -54.02 | -25.00 | 29.02 | 156 | 312 | Vertical |

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Test Band = LTE Band 7_ TM1

Test Channel = High Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5102.18 | 40.88 | -44.29 | 32.60 | -66.07 | -25.00 | 41.07 | 296 | 360 | Horizontal |
| 2 | 7653.27 | 37.35 | -41.30 | 36.81 | -62.40 | -25.00 | 37.40 | 265 | 125 | Horizontal |
| 3 | 10204.36 | 36.72 | -36.56 | 38.72 | -56.38 | -25.00 | 31.38 | 241 | 360 | Horizontal |
| 4 | 12755.45 | 33.60 | -35.10 | 39.36 | -57.41 | -25.00 | 32.41 | 185 | 125 | Horizontal |
| 5 | 15306.54 | 30.90 | -33.87 | 38.80 | -59.43 | -25.00 | 34.43 | 263 | 322 | Horizontal |
| 6 | 17857.63 | 30.94 | -30.96 | 42.03 | -53.24 | -25.00 | 28.24 | 224 | 40 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 5102.18 | 41.46 | -44.29 | 32.60 | -65.49 | -25.00 | 40.49 | 254 | 143 | Vertical |
| 2 | 7653.27 | 37.41 | -41.30 | 36.81 | -62.34 | -25.00 | 37.34 | 185 | 19 | Vertical |
| 3 | 10204.36 | 36.24 | -36.56 | 38.72 | -56.86 | -25.00 | 31.86 | 296 | 312 | Vertical |
| 4 | 12755.45 | 33.03 | -35.10 | 39.36 | -57.98 | -25.00 | 32.98 | 232 | 19 | Vertical |
| 5 | 15306.54 | 30.81 | -33.87 | 38.80 | -59.52 | -25.00 | 34.52 | 241 | 248 | Vertical |
| 6 | 17857.63 | 31.86 | -30.96 | 42.03 | -52.32 | -25.00 | 27.32 | 142 | 358 | 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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VL | NT | -0.30 | -0.000118 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VN | NT | -9.10 | -0.003590 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VH | NT | 3.50 | 0.001381 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -30 | -4.60 | -0.001815 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -20 | 0.10 | 0.000039 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -10 | -0.40 | -0.000158 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 0 | -2.50 | -0.000986 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 10 | -9.70 | -0.003826 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 20 | -10.10 | -0.003984 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 30 | 0.10 | 0.000039 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 40 | -8.60 | -0.003393 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 50 | 5.70 | 0.002249 | PASS |

---End of Attachment---



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