# Appendix B

## E-UTRA BAND 41

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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | QPSK | 39675 | 1RB#0 | 23.42 | 26.42 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#12 | 23.78 | 26.78 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#24 | 23.60 | 26.60 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#0 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#6 | 22.67 | 25.67 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#13 | 22.53 | 25.53 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 22.58 | 25.58 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#0 | 23.46 | 26.46 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#12 | 23.91 | 26.91 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#24 | 23.57 | 26.57 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#0 | 22.61 | 25.61 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#6 | 22.61 | 25.61 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#13 | 22.42 | 25.42 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 22.53 | 25.53 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#0 | 23.42 | 26.42 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#12 | 23.47 | 26.47 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#24 | 23.27 | 26.27 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#0 | 22.53 | 25.53 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#6 | 22.47 | 25.47 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#13 | 22.44 | 25.44 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 22.52 | 25.52 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#0 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#12 | 22.16 | 25.16 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#24 | 22.08 | 25.08 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#0 | 21.51 | 24.51 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#6 | 21.64 | 24.64 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#13 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 21.55 | 24.55 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#0 | 22.03 | 25.03 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#12 | 22.22 | 25.22 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#24 | 21.92 | 24.92 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#0 | 21.41 | 24.41 | 33.00 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | 16QAM | 40620 | 12RB#6 | 21.40 | 24.40 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#13 | 21.32 | 24.32 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 21.51 | 24.51 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#0 | 22.14 | 25.14 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#12 | 22.38 | 25.38 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#24 | 21.99 | 24.99 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#0 | 21.40 | 24.40 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#6 | 21.40 | 24.40 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#13 | 21.34 | 24.34 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 21.40 | 24.40 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#0 | 23.61 | 26.61 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#24 | 23.85 | 26.85 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#49 | 23.48 | 26.48 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#0 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#12 | 22.72 | 25.72 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#25 | 22.50 | 25.50 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 22.66 | 25.66 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#0 | 23.48 | 26.48 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#24 | 23.86 | 26.86 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#49 | 23.24 | 26.24 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#0 | 22.68 | 25.68 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#12 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#25 | 22.46 | 25.46 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 22.57 | 25.57 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#0 | 23.57 | 26.57 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#24 | 23.78 | 26.78 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#49 | 23.28 | 26.28 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#0 | 22.70 | 25.70 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#12 | 22.60 | 25.60 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#25 | 22.38 | 25.38 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 22.59 | 25.59 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0 | 22.16 | 25.16 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 22.29 | 25.29 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 22.19 | 25.19 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 25RB#0 | 21.58 | 24.58 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 25RB#12 | 21.62 | 24.62 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 25RB#25 | 21.55 | 24.55 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 21.57 | 24.57 | 33.00 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0 | 22.24 | 25.24 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 22.29 | 25.29 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 22.08 | 25.08 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 25RB#0 | 21.54 | 24.54 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 25RB#12 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 25RB#25 | 21.56 | 24.56 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 21.43 | 24.43 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0 | 22.17 | 25.17 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 22.34 | 25.34 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 22.05 | 25.05 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 25RB#0 | 21.55 | 24.55 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 25RB#12 | 21.56 | 24.56 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 25RB#25 | 21.55 | 24.55 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#0 | 23.40 | 26.40 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#38 | 23.68 | 26.68 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#74 | 23.22 | 26.22 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#0 | 22.61 | 25.61 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#18 | 22.56 | 25.56 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#39 | 22.51 | 25.51 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 22.54 | 25.54 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#0 | 23.49 | 26.49 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#38 | 23.69 | 26.69 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#74 | 23.23 | 26.23 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#0 | 22.72 | 25.72 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#18 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#39 | 22.44 | 25.44 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 22.57 | 25.57 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#0 | 23.48 | 26.48 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#38 | 23.63 | 26.63 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#74 | 23.37 | 26.37 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#0 | 22.69 | 25.69 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#18 | 22.55 | 25.55 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#39 | 22.41 | 25.41 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 22.57 | 25.57 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0 | 22.15 | 25.15 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38 | 22.08 | 25.08 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74 | 22.07 | 25.07 | 33.00 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 15MHz | 16QAM | 39725 | 36RB#0 | 21.45 | 24.45 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 36RB#18 | 21.39 | 24.39 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 36RB#39 | 21.47 | 24.47 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0 | 21.47 | 24.47 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0 | 22.31 | 25.31 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38 | 21.93 | 24.93 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 36RB#0 | 21.69 | 24.69 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 36RB#18 | 21.65 | 24.65 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 36RB#39 | 21.63 | 24.63 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0 | 21.52 | 24.52 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0 | 22.12 | 25.12 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38 | 22.05 | 25.05 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74 | 21.93 | 24.93 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 36RB#0 | 21.57 | 24.57 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 36RB#18 | 21.42 | 24.42 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 36RB#39 | 21.42 | 24.42 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0 | 21.57 | 24.57 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#0 | 23.33 | 26.33 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#49 | 23.81 | 26.81 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#99 | 23.14 | 26.14 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#0 | 22.54 | 25.54 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#25 | 22.66 | 25.66 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#50 | 22.46 | 25.46 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 22.56 | 25.56 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#0 | 23.39 | 26.39 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#49 | 23.81 | 26.81 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#99 | 23.07 | 26.07 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#0 | 22.65 | 25.65 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#25 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#50 | 22.47 | 25.47 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 22.57 | 25.57 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#0 | 23.48 | 26.48 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#49 | 23.85 | 26.85 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#99 | 23.07 | 26.07 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#0 | 22.62 | 25.62 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#25 | 22.64 | 25.64 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#50 | 22.43 | 25.43 | 33.00 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 22.57 | 25.57 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0 | 21.96 | 24.96 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49 | 22.31 | 25.31 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99 | 21.91 | 24.91 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 50RB#0 | 21.46 | 24.46 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 50RB#25 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 50RB#50 | 21.44 | 24.44 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 21.43 | 24.43 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0 | 22.20 | 25.20 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49 | 22.27 | 25.27 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99 | 21.90 | 24.90 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 50RB#0 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 50RB#25 | 21.43 | 24.43 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 50RB#50 | 21.45 | 24.45 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 21.55 | 24.55 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0 | 22.13 | 25.13 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49 | 22.34 | 25.34 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99 | 21.90 | 24.90 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 50RB#0 | 21.51 | 24.51 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 50RB#25 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 50RB#50 | 21.43 | 24.43 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 21.52 | 24.52 | 33.00 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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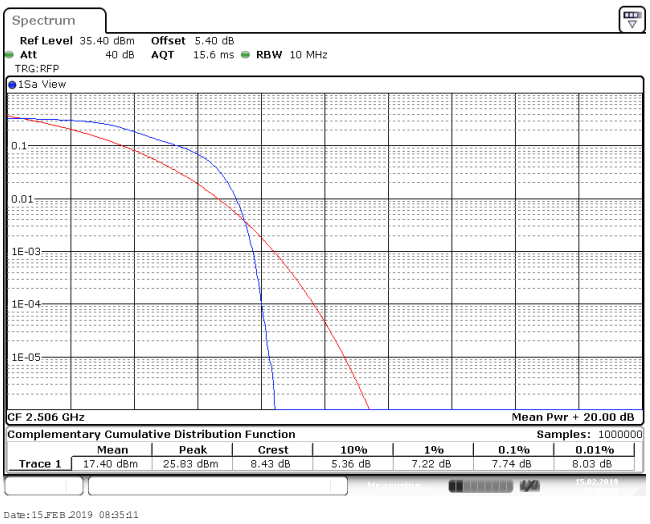
# 2. Peak-to-Average Ratio(CCDF)

## 2.1.Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 7.74 | 13 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 7.65 | 13 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 7.71 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 9.39 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 9.36 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 9.39 | 13 | PASS |

## 2.2.Test Plots

Band41_20MHz_QPSK_39750_100RB#0




Band41_20MHz_QPSK_40620_100RB#0

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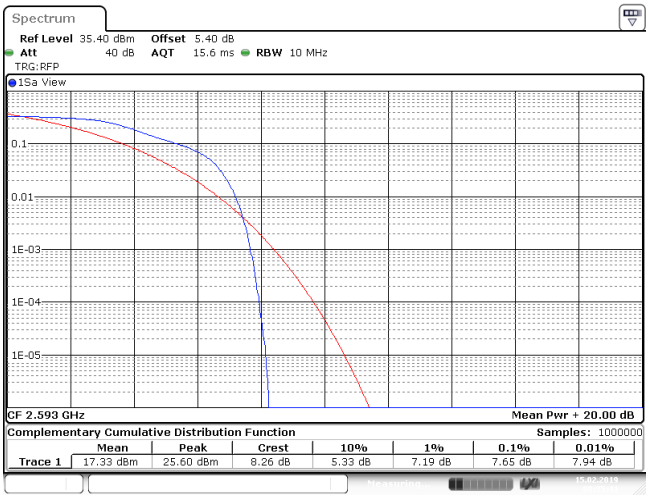


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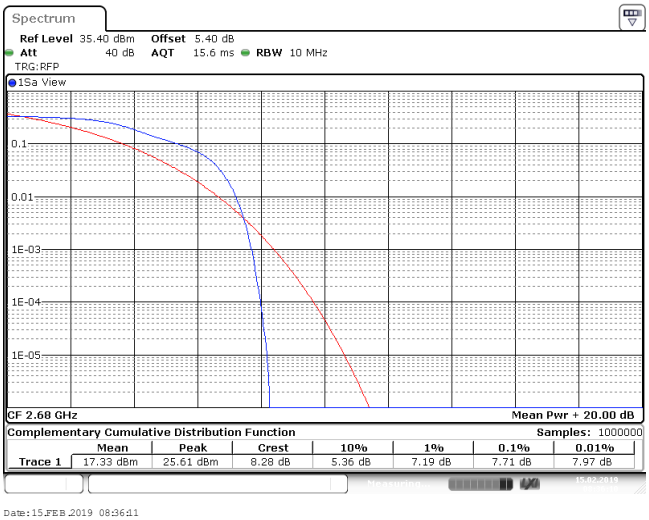


Band41_20MHz_16QAM_39750_100RB#0

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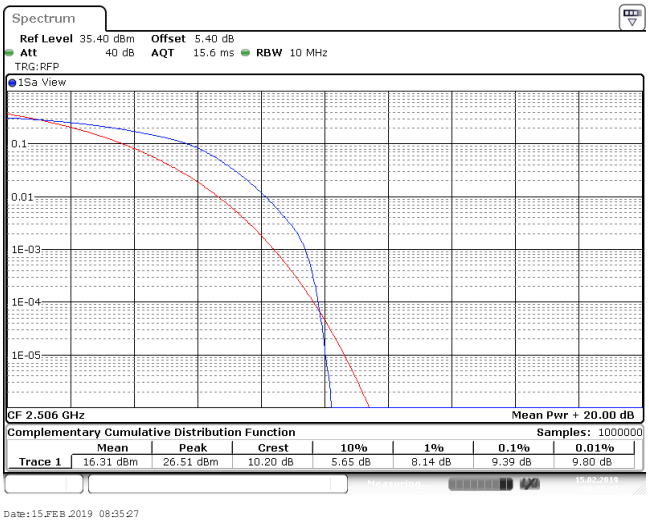
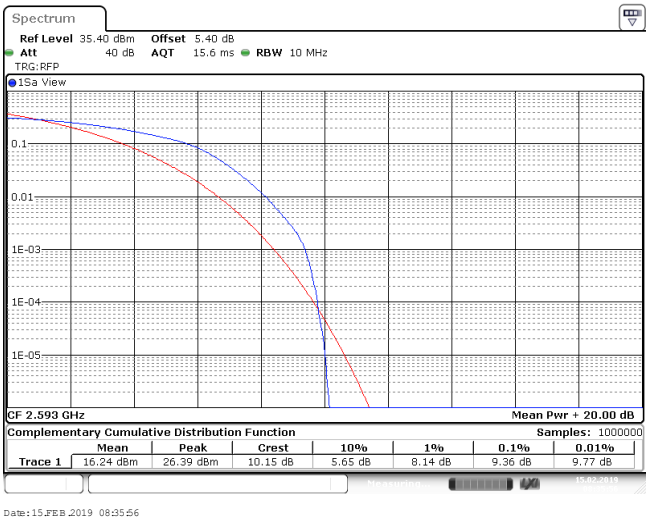



Band41_20MHz_16QAM_40620_100RB#0




Band41_20MHz_16QAM_41490_100RB#0

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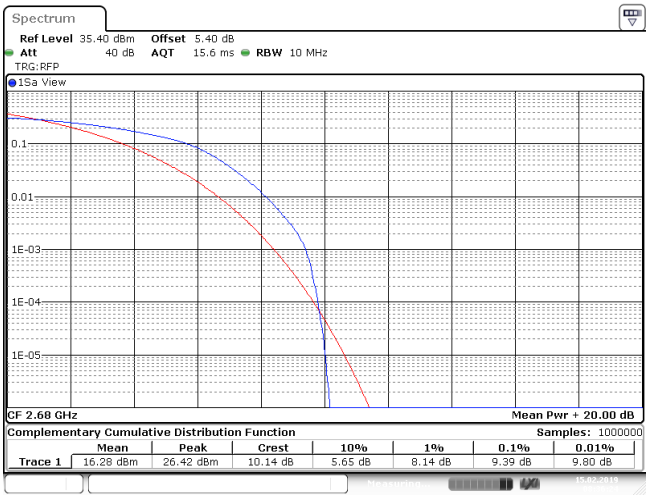


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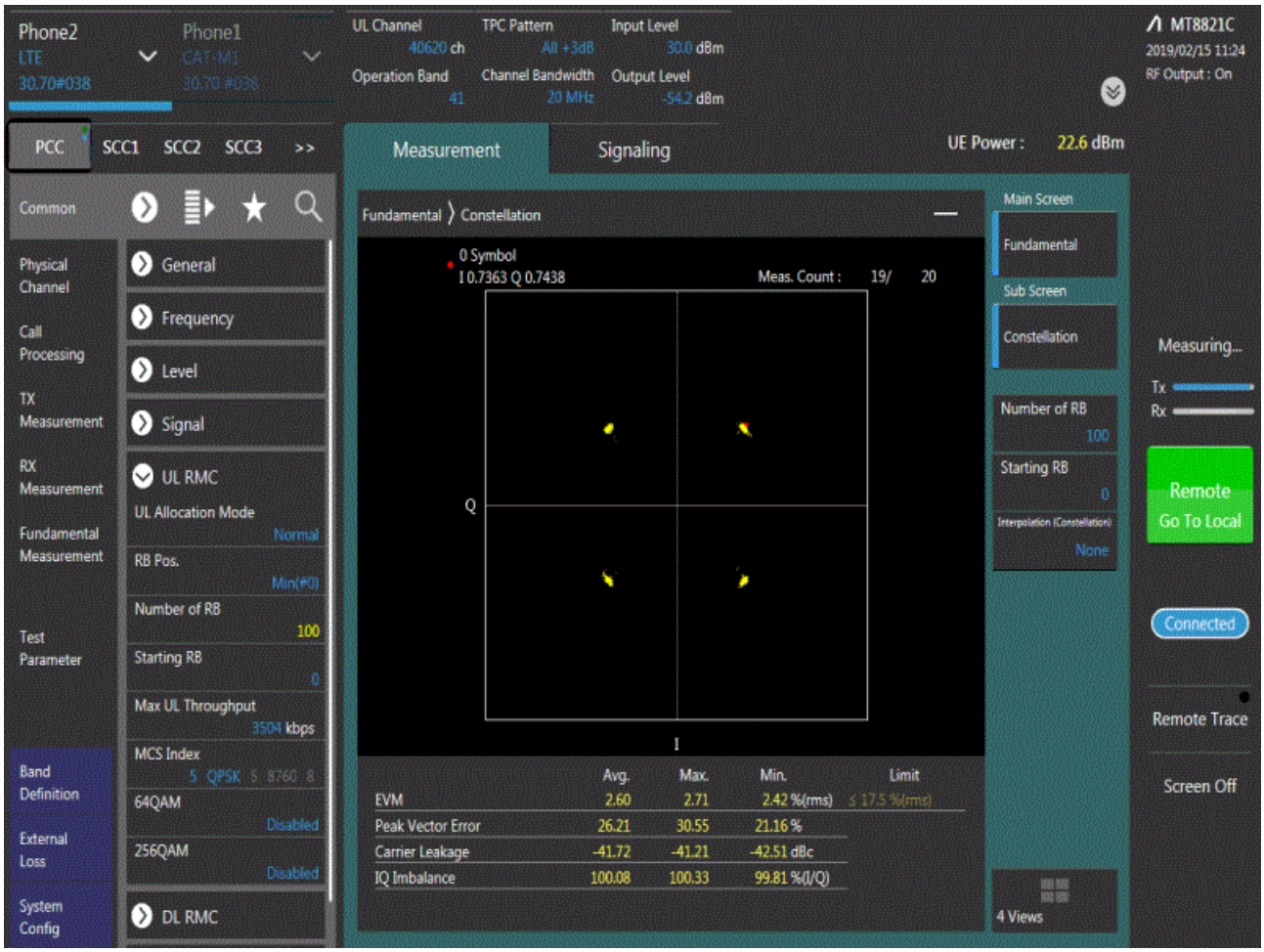
# 3. Modulation Characteristics

## 3.1. Test BAND = LTE BAND41

### 3.1.1. Test Mode = LTE /TM1 20MHz

#### 3.1.1.1. Test Channel = MCH

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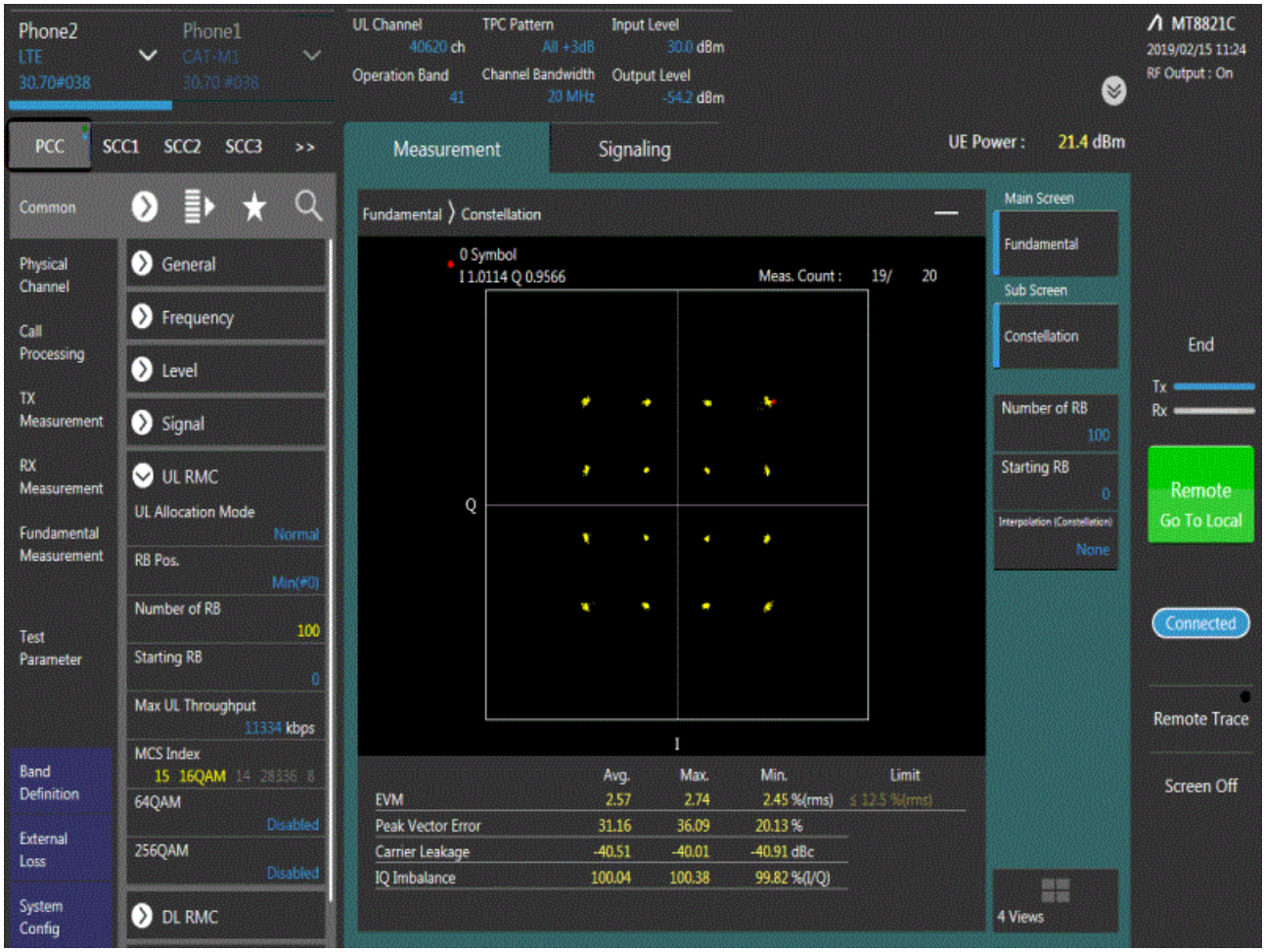
### 3.1.2. Test Mode = LTE /TM2 20MHz

#### 3.1.2.1. Test Channel = MCH

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# 4. 26dB Bandwidth and Occupied Bandwidth

## 4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 4.466 | 5.010 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 4.476 | 5.070 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 4.476 | 4.960 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 4.496 | 4.930 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 4.466 | 4.880 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 4.496 | 4.940 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 8.891 | 10.180 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 8.911 | 10.600 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 8.911 | 10.340 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 8.891 | 9.660 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 8.891 | 9.840 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 8.911 | 9.820 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 13.457 | 15.690 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 13.487 | 17.400 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 13.457 | 15.960 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0 | 13.457 | 15.630 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0 | 13.457 | 16.230 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0 | 13.457 | 16.170 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 17.862 | 19.960 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 17.862 | 20.400 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 17.902 | 20.040 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 17.822 | 19.440 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 17.862 | 19.640 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 17.862 | 19.480 | PASS |

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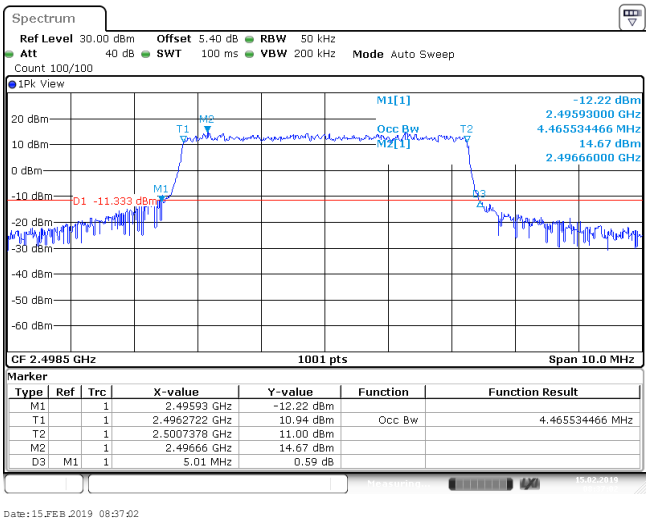
## 4.2. Test Plots

Band41_5MHz_QPSK_39675_25RB#0

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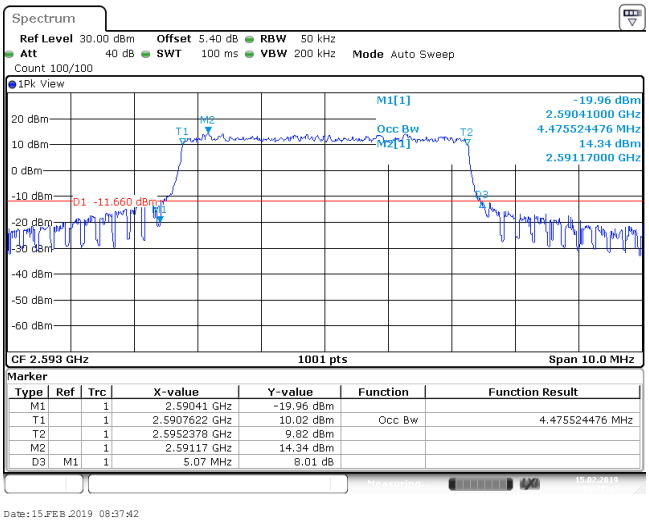


Band41_5MHz_QPSK_41565_25RB#0

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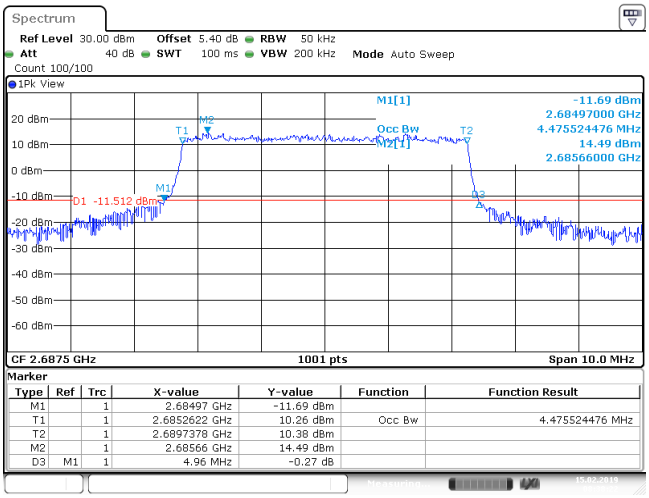


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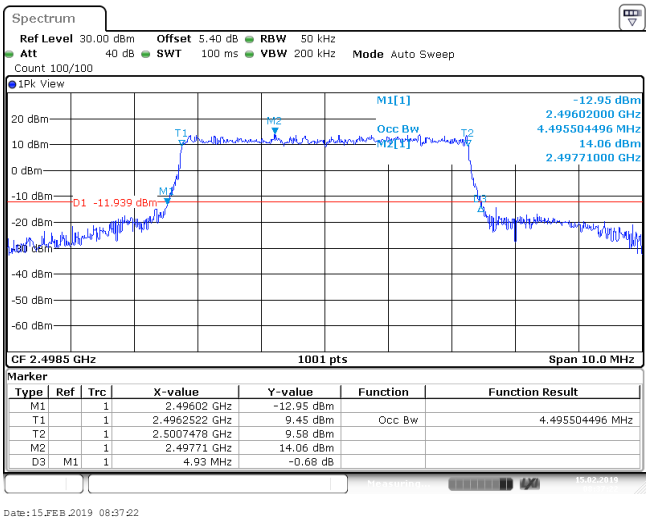


Band41_5MHz_16QAM_40620_25RB#0

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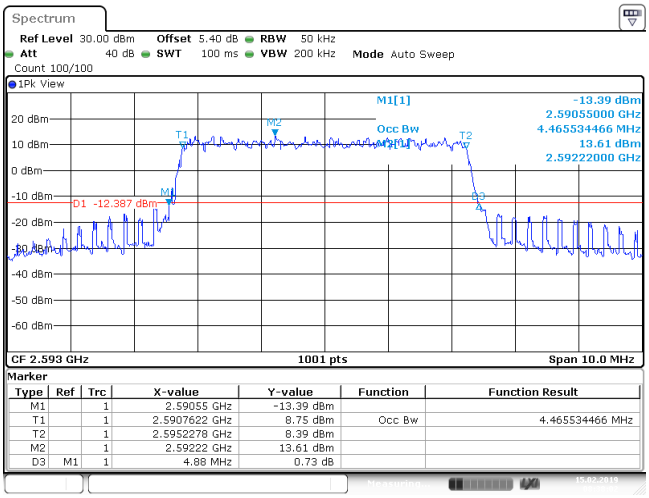


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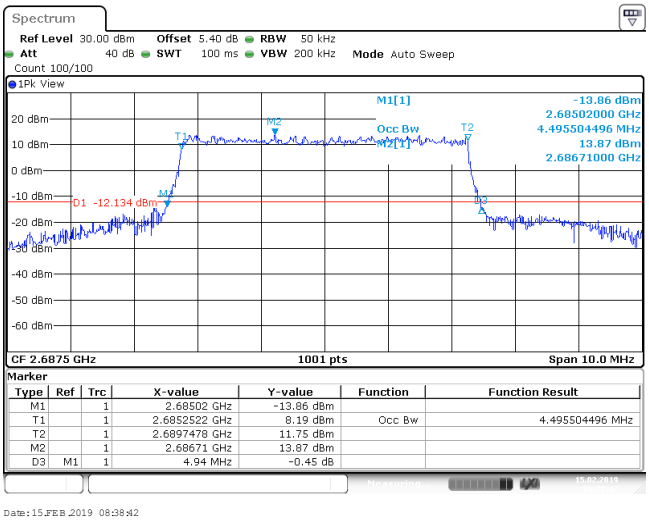


Band41_10MHz_QPSK_39700_50RB#0

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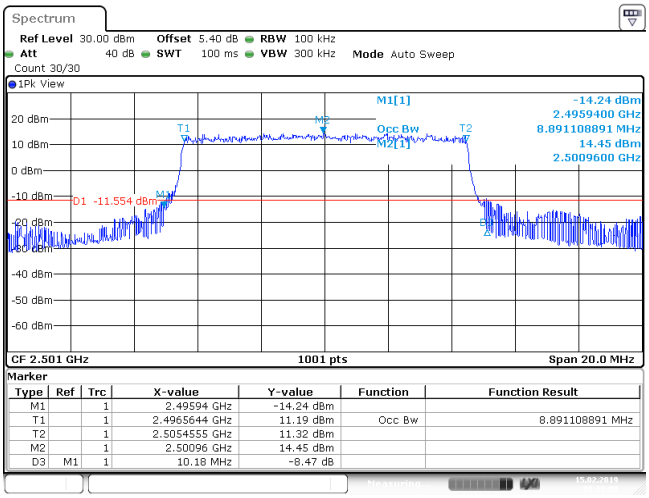
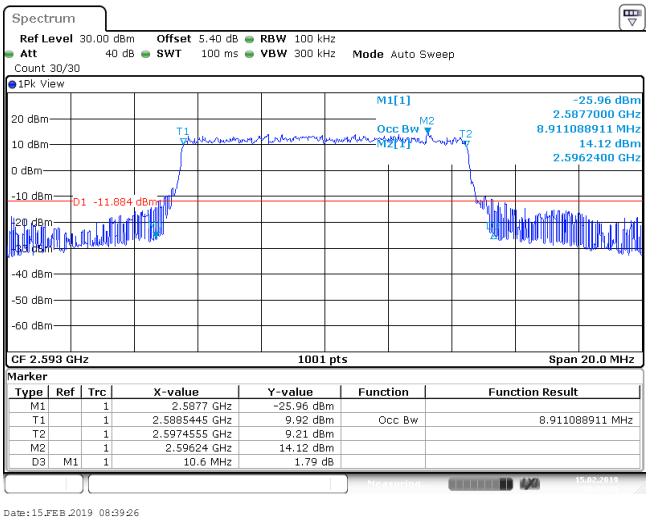



Band41_10MHz_QPSK_40620_50RB#0

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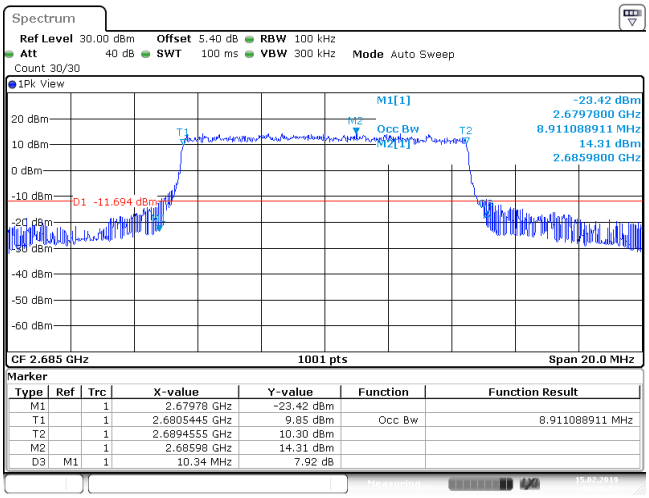


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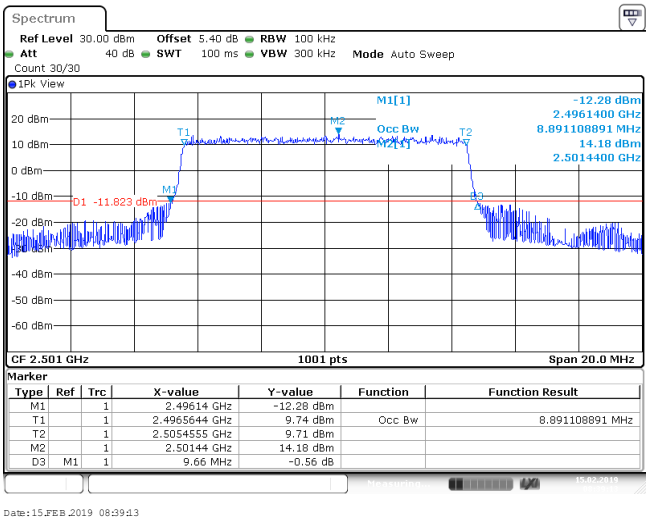


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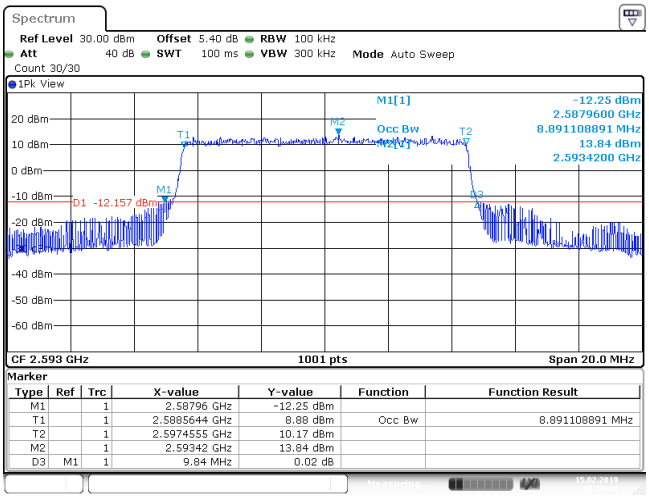


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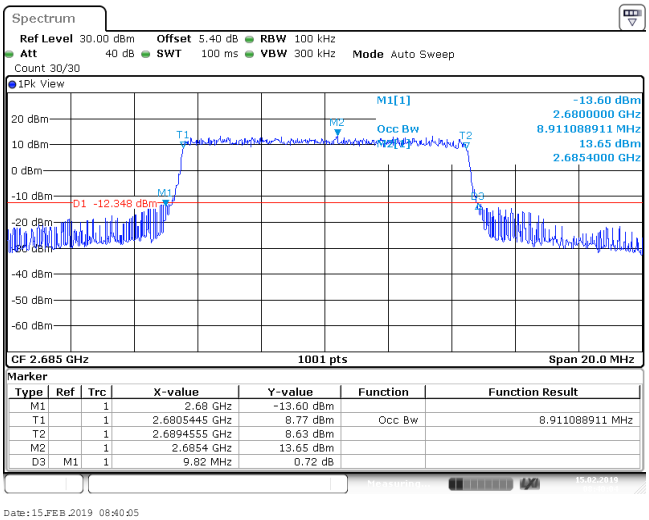


Band41_15MHz_QPSK_39725_75RB#0

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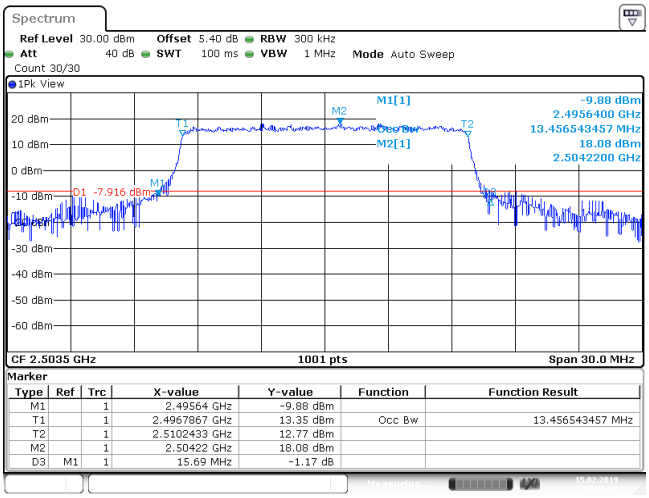


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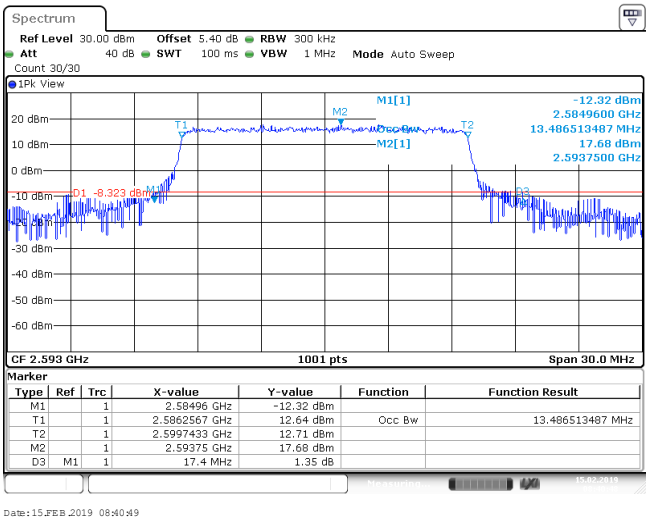


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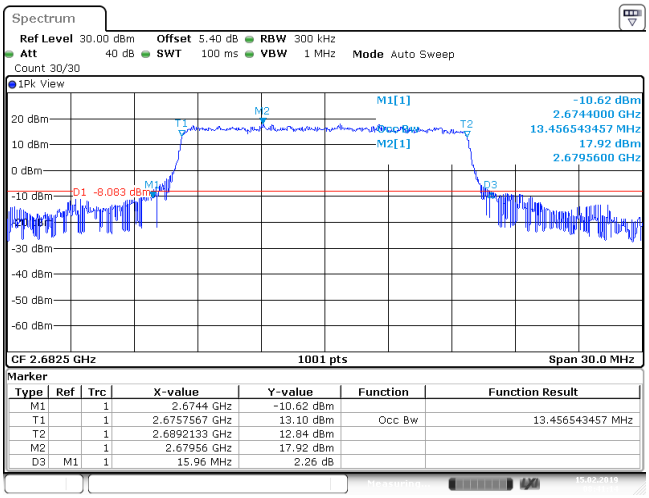


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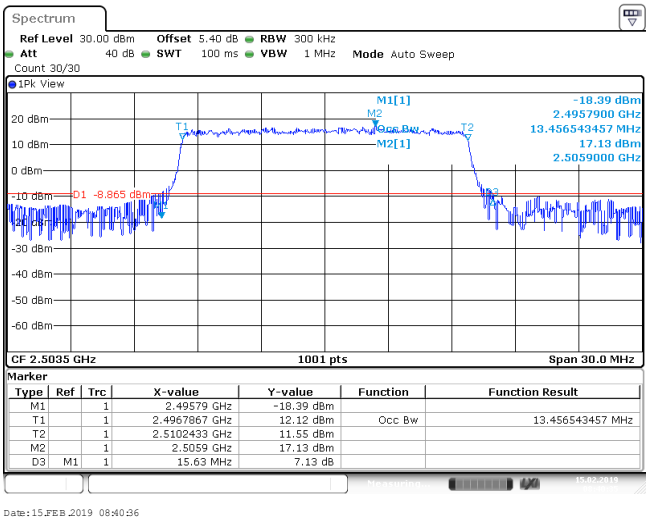


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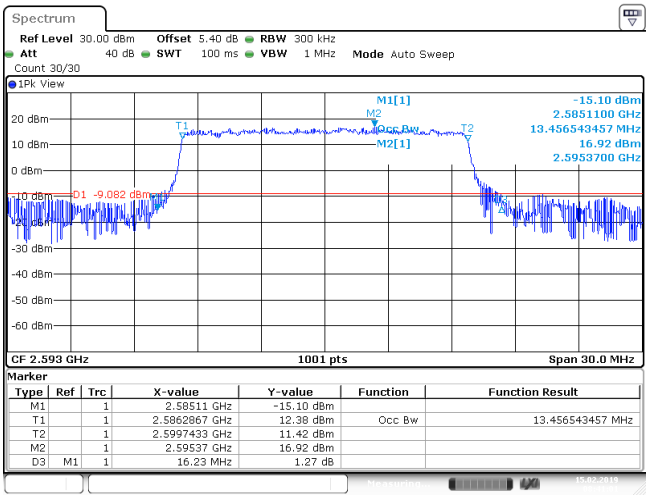


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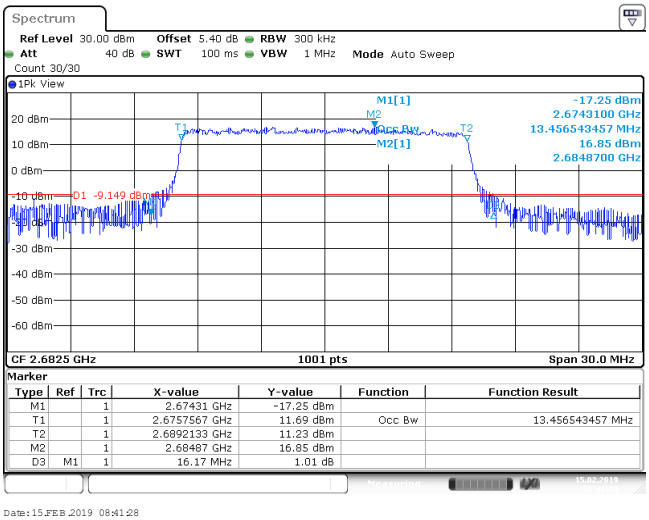


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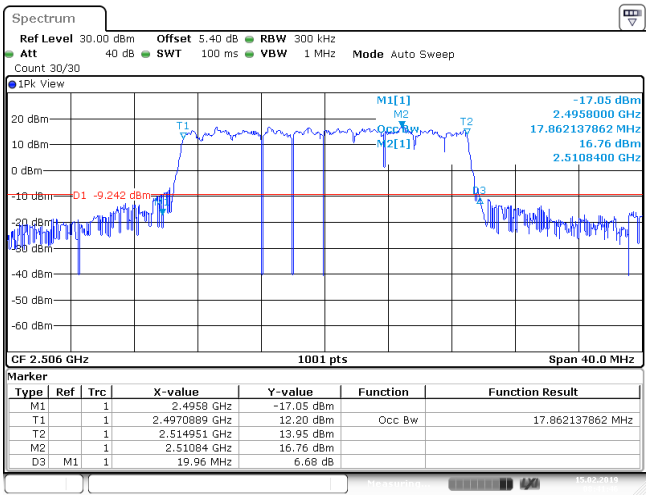


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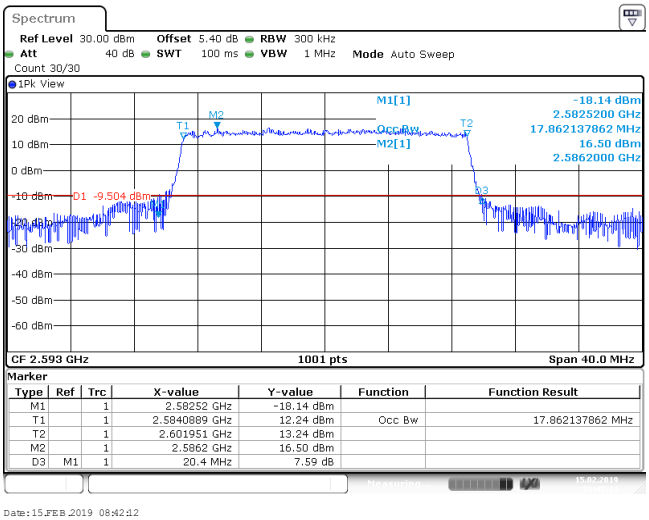


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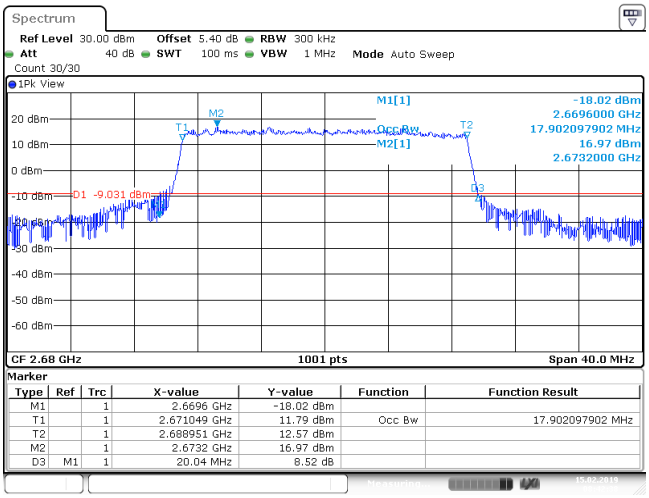


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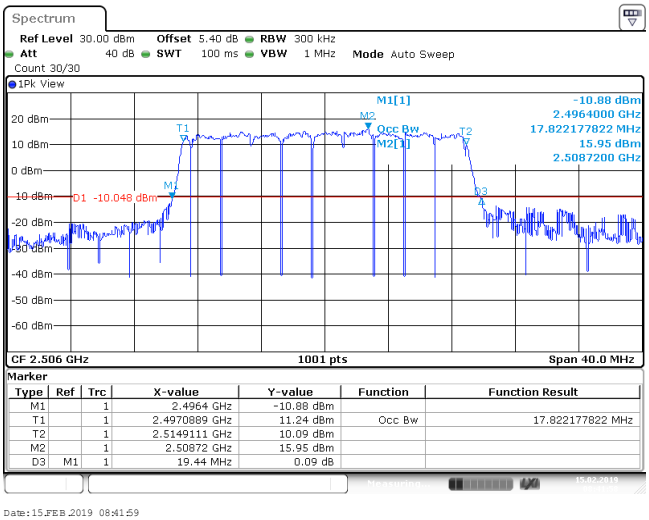


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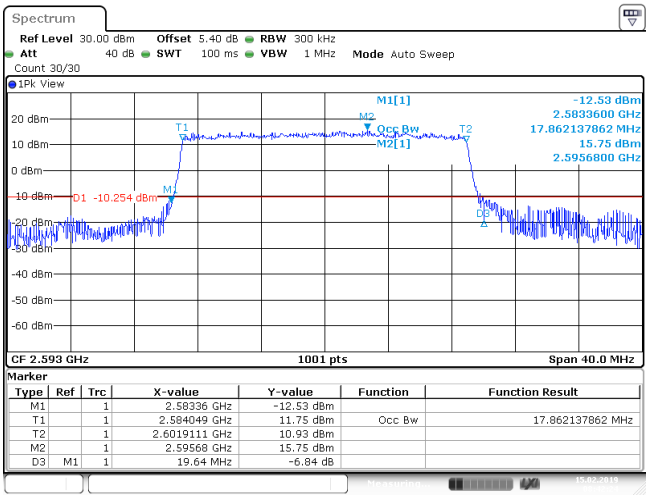
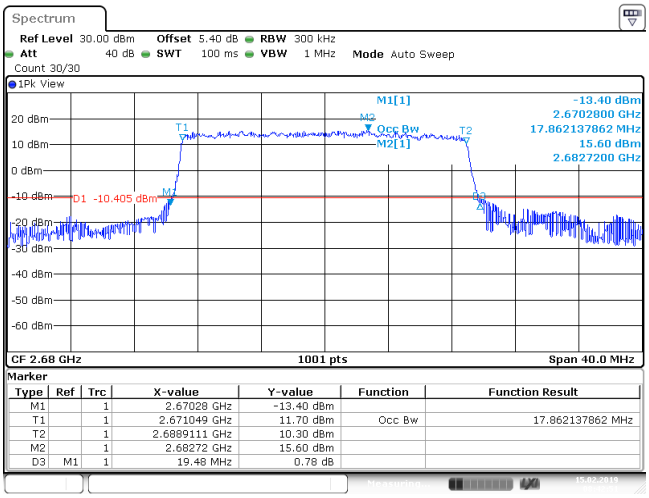



Band41_20MHz_16QAM_41490_100RB#0

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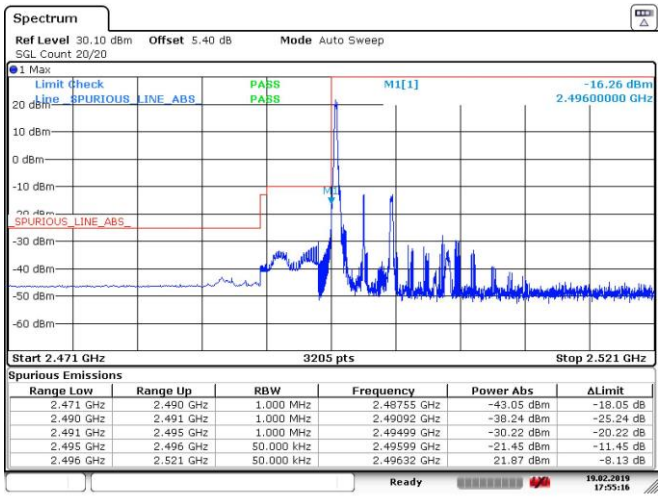
# 5. Band Edge Compliance

## 5.1. Test Plots

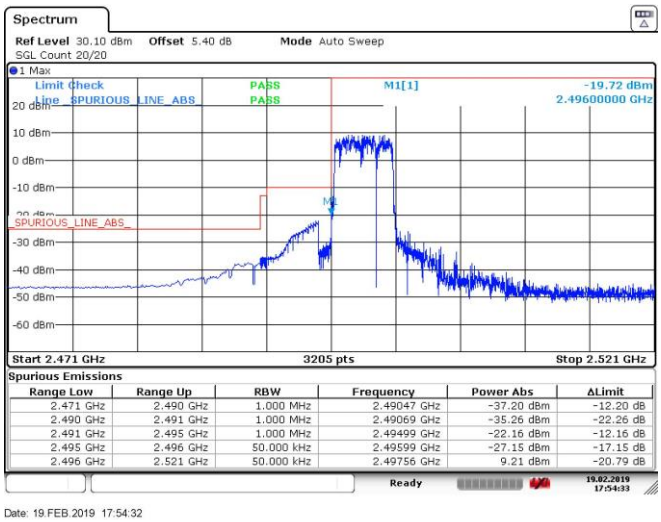
Band41_5MHz_QPSK_39675_1RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48755 GHz | -43.05 dBm | -18.05 dB |
| 2.490 GHz | 2.491 GHz | 1.000 MHz | 2.49092 GHz | -38.24 dBm | -25.24 dB |
| 2.491 GHz | 2.495 GHz | 1.000 MHz | 2.49499 GHz | -30.22 dBm | -20.22 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49599 GHz | -21.45 dBm | -11.45 dB |
| 2.496 GHz | 2.521 GHz | 50.000 kHz | 2.49632 GHz | 21.87 dBm | -8.13 dB |

Date: 19.FEB.2019 17:55:16

Band41_5MHz_QPSK_39675_25RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.49047 GHz | -37.20 dBm | -12.20 dB |
| 2.490 GHz | 2.491 GHz | 1.000 MHz | 2.49069 GHz | -35.26 dBm | -22.26 dB |
| 2.491 GHz | 2.495 GHz | 1.000 MHz | 2.49499 GHz | -22.16 dBm | -12.16 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49599 GHz | -27.15 dBm | -17.15 dB |
| 2.496 GHz | 2.521 GHz | 50.000 kHz | 2.49756 GHz | 9.21 dBm | -20.79 dB |

Date: 19.FEB.2019 17:54:32

Band41_5MHz_QPSK_41565_1RB#24

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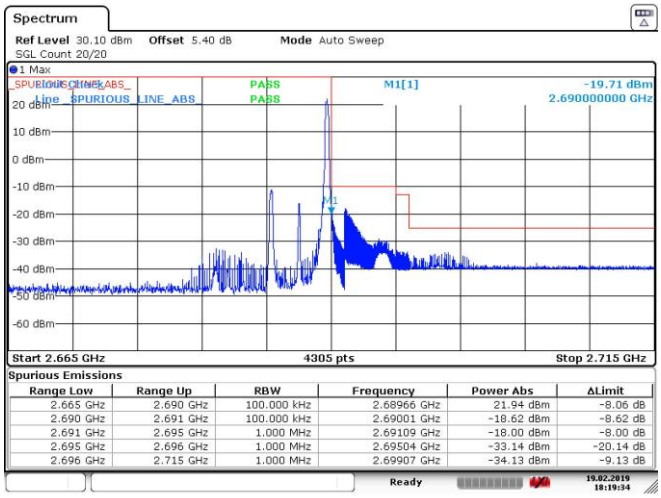
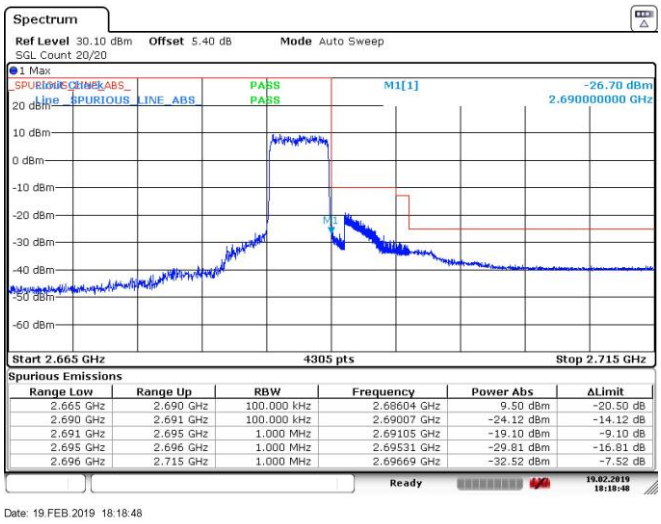



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 100.000 kHz | 2.68966 GHz | 21.94 dBm | -8.06 dB |
| 2.690 GHz | 2.691 GHz | 100.000 kHz | 2.69001 GHz | -18.62 dBm | -8.62 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69109 GHz | -18.00 dBm | -8.00 dB |
| 2.695 GHz | 2.696 GHz | 1.000 MHz | 2.69504 GHz | -33.14 dBm | -20.14 dB |
| 2.696 GHz | 2.715 GHz | 1.000 MHz | 2.69907 GHz | -34.13 dBm | -9.13 dB |

Date: 19.FEB.2019 18:19:35

Band41_5MHz_QPSK_41565_25RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 100.000 kHz | 2.68604 GHz | 9.50 dBm | -20.50 dB |
| 2.690 GHz | 2.691 GHz | 100.000 kHz | 2.69007 GHz | -24.12 dBm | -14.12 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69105 GHz | -19.10 dBm | -9.10 dB |
| 2.695 GHz | 2.696 GHz | 1.000 MHz | 2.69531 GHz | -29.81 dBm | -16.81 dB |
| 2.696 GHz | 2.715 GHz | 1.000 MHz | 2.69669 GHz | -32.52 dBm | -7.52 dB |

Date: 19.FEB.2019 18:18:48

Band41_5MHz_16QAM_39675_1RB#0

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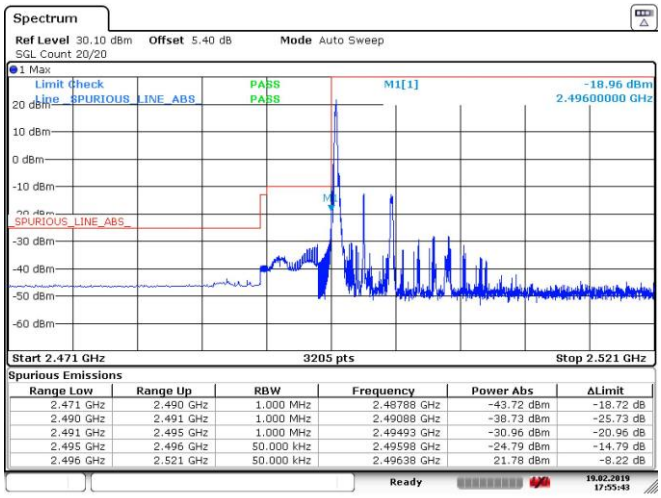
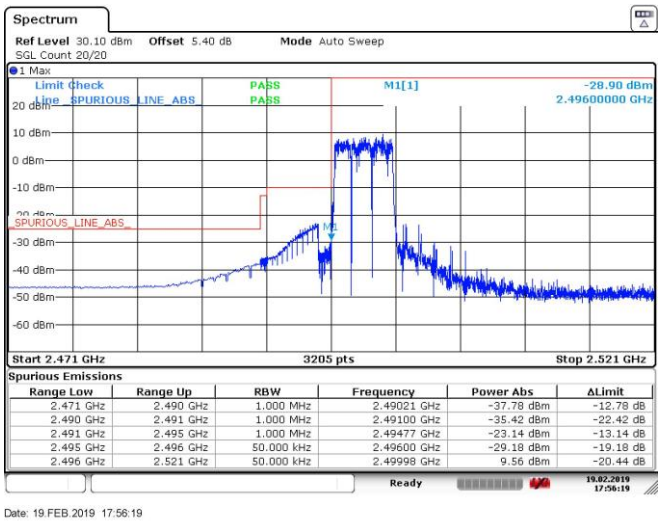



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48788 GHz | -43.72 dBm | -18.72 dB |
| 2.490 GHz | 2.491 GHz | 1.000 MHz | 2.49088 GHz | -38.73 dBm | -25.73 dB |
| 2.491 GHz | 2.495 GHz | 1.000 MHz | 2.49493 GHz | -30.96 dBm | -20.96 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49598 GHz | -24.79 dBm | -14.79 dB |
| 2.496 GHz | 2.521 GHz | 50.000 kHz | 2.49638 GHz | 21.78 dBm | -8.22 dB |

Band41_5MHz_16QAM_39675_25RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.49021 GHz | -37.78 dBm | -12.78 dB |
| 2.490 GHz | 2.491 GHz | 1.000 MHz | 2.49100 GHz | -35.42 dBm | -22.42 dB |
| 2.491 GHz | 2.495 GHz | 1.000 MHz | 2.49477 GHz | -23.14 dBm | -13.14 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49600 GHz | -29.18 dBm | -19.18 dB |
| 2.496 GHz | 2.521 GHz | 50.000 kHz | 2.49998 GHz | 9.56 dBm | -20.44 dB |

Band41_5MHz_16QAM_41565_1RB#24

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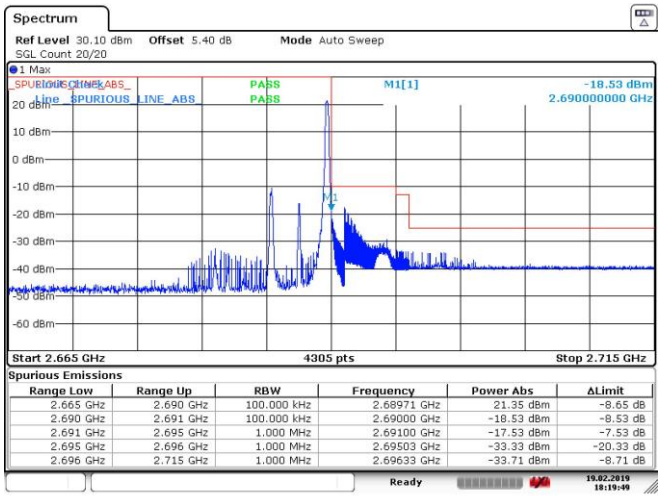
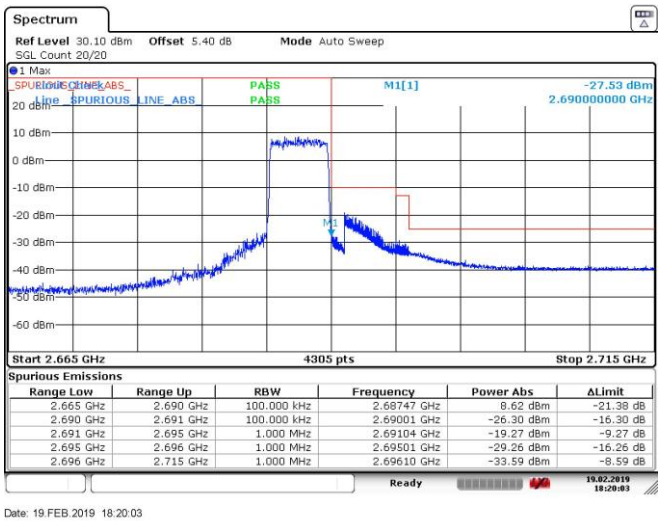



Band41_5MHz_16QAM_41565_25RB#0




Band41_10MHz_QPSK_39700_1RB#0

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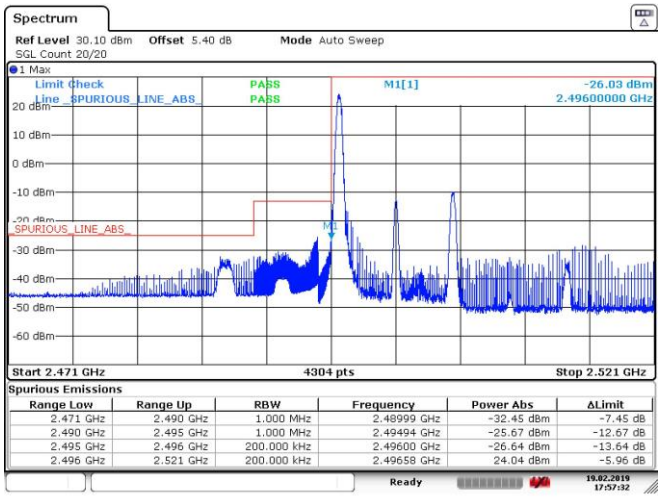
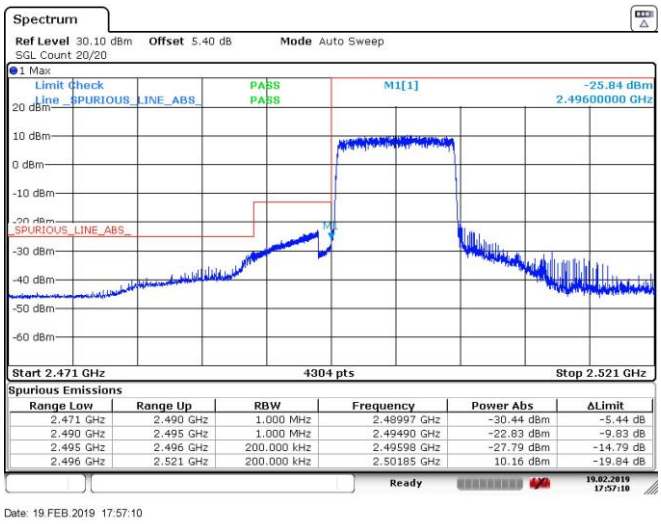



Band41_10MHz_QPSK_39700_50RB#0




Band41_10MHz_QPSK_41540_1RB#49

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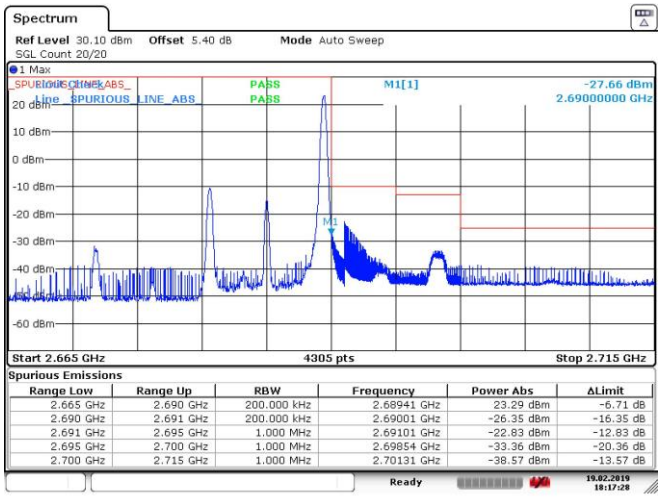
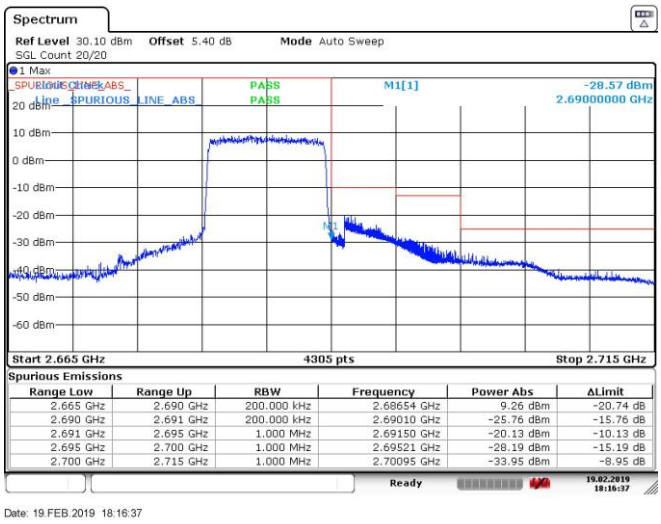



Band41_10MHz_QPSK_41540_50RB#0

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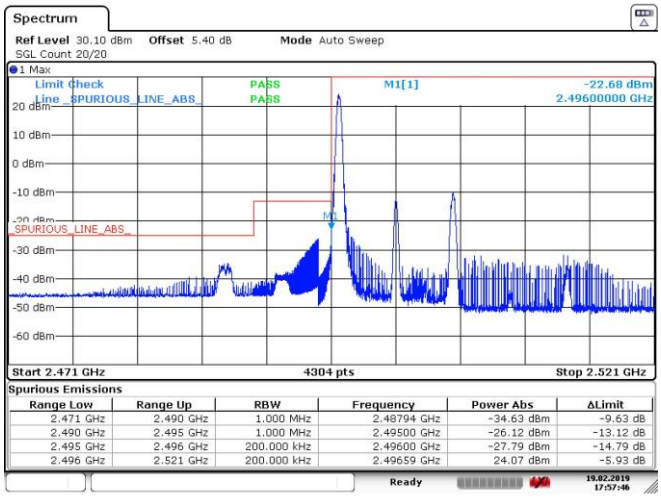
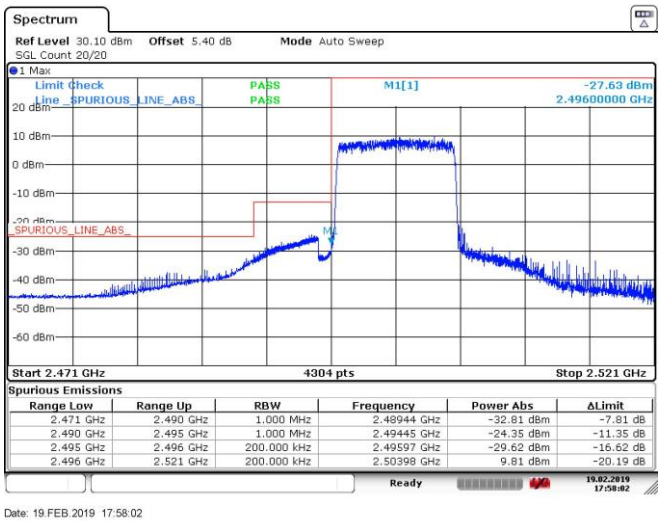



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48794 GHz | -34.63 dBm | -9.63 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49500 GHz | -26.12 dBm | -13.12 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49600 GHz | -27.79 dBm | -14.79 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.49659 GHz | 24.07 dBm | -5.93 dB |

Band41_10MHz_16QAM_39700_50RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48944 GHz | -32.81 dBm | -7.81 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49445 GHz | -24.35 dBm | -11.35 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49597 GHz | -29.62 dBm | -16.62 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.50398 GHz | 9.81 dBm | -20.19 dB |

Band41_10MHz_16QAM_41540_1RB#49

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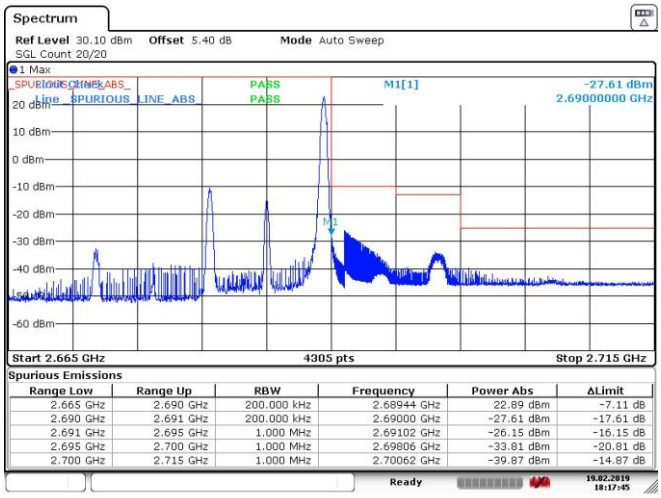
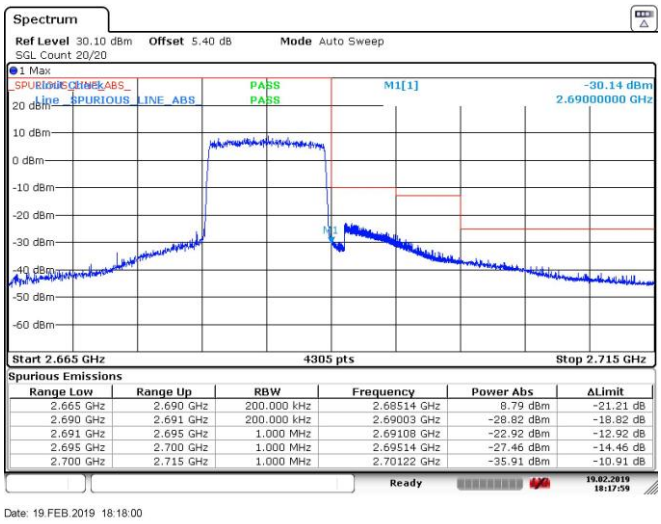



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 200.000 kHz | 2.68944 GHz | 22.89 dBm | -7.11 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.69000 GHz | -27.61 dBm | -17.61 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69102 GHz | -26.15 dBm | -16.15 dB |
| 2.695 GHz | 2.700 GHz | 1.000 MHz | 2.69806 GHz | -33.81 dBm | -20.81 dB |
| 2.700 GHz | 2.715 GHz | 1.000 MHz | 2.70062 GHz | -39.87 dBm | -14.87 dB |

Date: 19.FEB.2019 18:17:45

Band41_10MHz_16QAM_41540_50RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 200.000 kHz | 2.68514 GHz | 8.79 dBm | -21.21 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.69003 GHz | -28.82 dBm | -18.82 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69108 GHz | -22.92 dBm | -12.92 dB |
| 2.695 GHz | 2.700 GHz | 1.000 MHz | 2.69514 GHz | -27.46 dBm | -14.46 dB |
| 2.700 GHz | 2.715 GHz | 1.000 MHz | 2.70122 GHz | -35.91 dBm | -10.91 dB |

Date: 19.FEB.2019 18:18:00

Band41_15MHz_QPSK_39725_1RB#0

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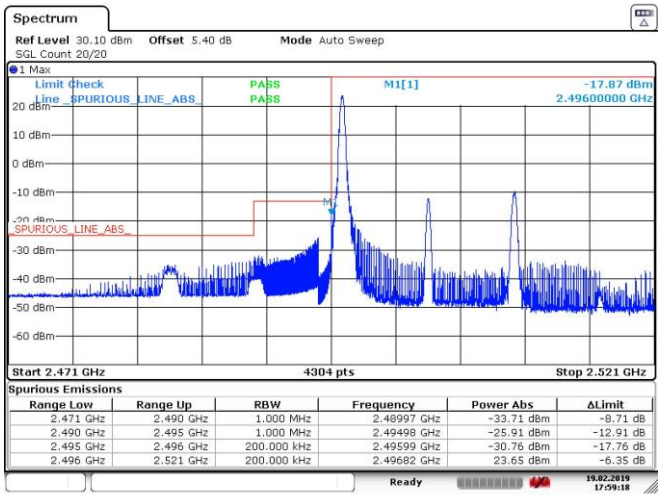
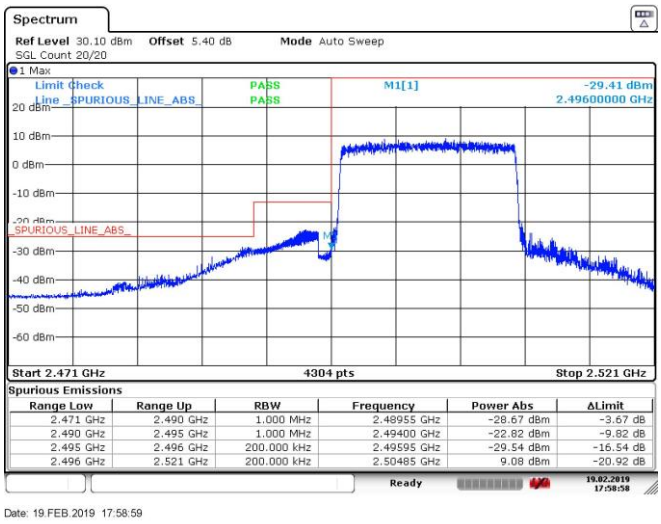



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48997 GHz | -33.71 dBm | -8.71 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49498 GHz | -25.91 dBm | -12.91 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49599 GHz | -30.76 dBm | -17.76 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.49682 GHz | 23.65 dBm | -6.35 dB |

Band41_15MHz_QPSK_39725_75RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48955 GHz | -28.67 dBm | -3.67 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49400 GHz | -22.82 dBm | -9.82 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49595 GHz | -29.54 dBm | -16.54 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.50485 GHz | 9.08 dBm | -20.92 dB |

Band41_15MHz_QPSK_41515_1RB#74

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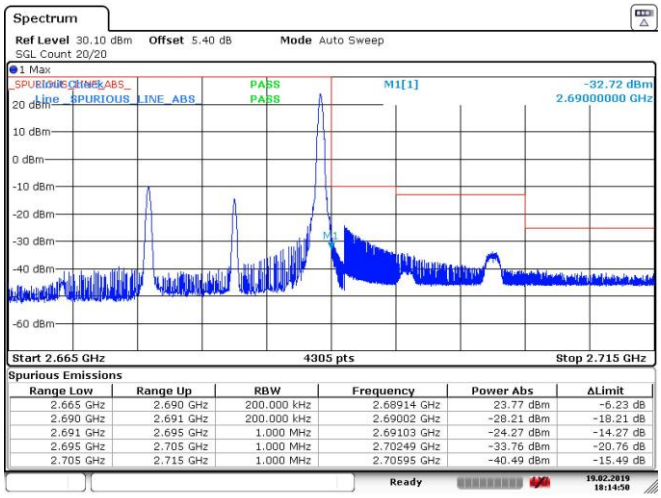
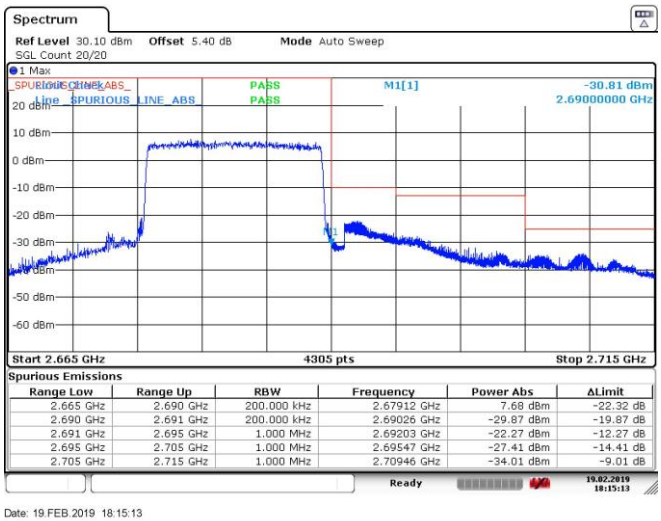



Band41_15MHz_QPSK_41515_75RB#0




Band41_15MHz_16QAM_39725_1RB#0

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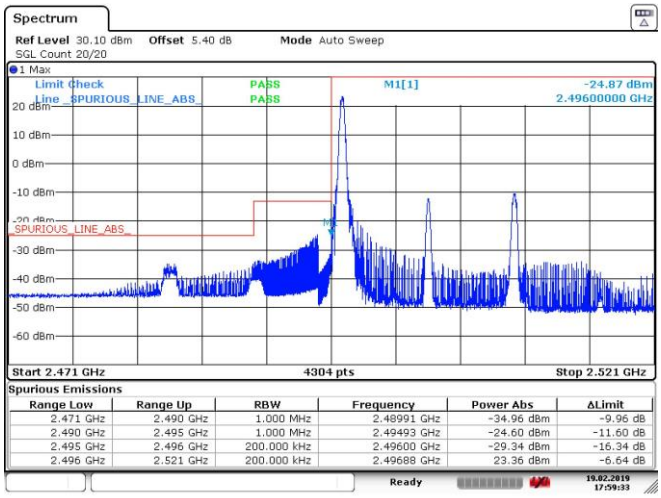
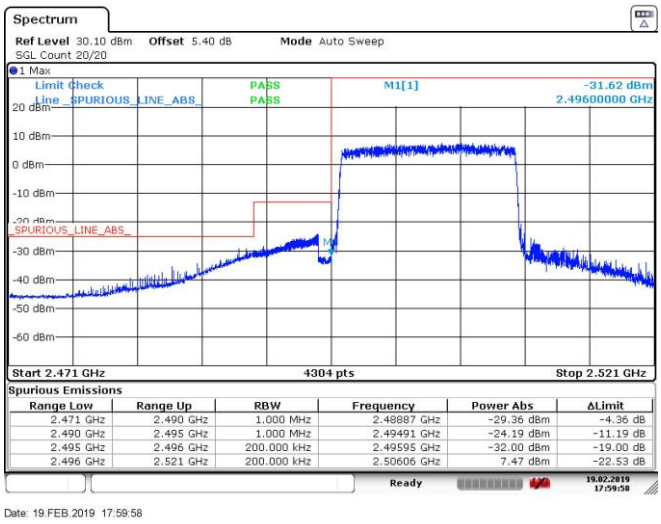



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48991 GHz | -34.96 dBm | -9.96 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49493 GHz | -24.60 dBm | -11.60 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49600 GHz | -29.34 dBm | -16.34 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.49688 GHz | 23.36 dBm | -6.64 dB |

Band41_15MHz_16QAM_39725_75RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48887 GHz | -29.36 dBm | -4.36 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49491 GHz | -24.19 dBm | -11.19 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49595 GHz | -32.00 dBm | -19.00 dB |
| 2.496 GHz | 2.521 GHz | 200.000 kHz | 2.50606 GHz | 7.47 dBm | -22.53 dB |

Band41_15MHz_16QAM_41515_1RB#74

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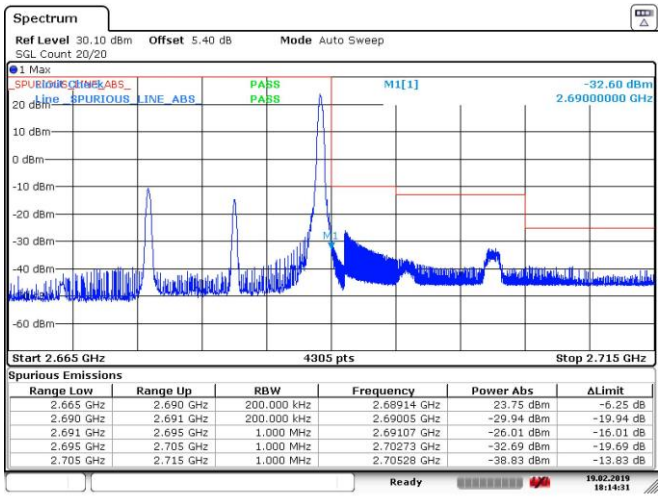
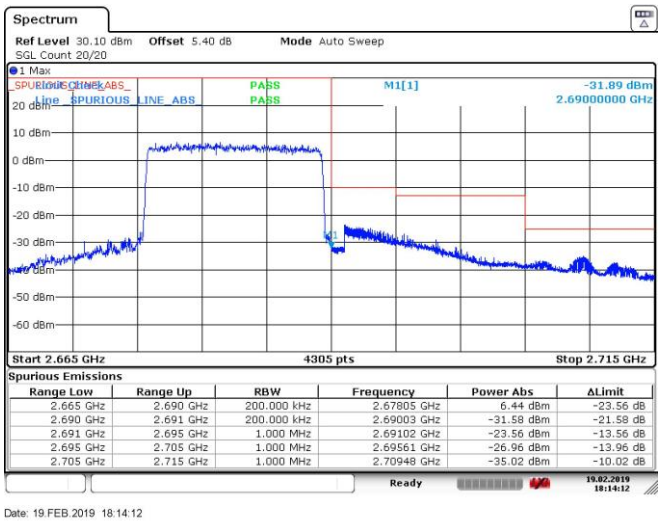



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 200.000 kHz | 2.68914 GHz | 23.75 dBm | -6.25 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.69005 GHz | -29.94 dBm | -19.94 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69107 GHz | -26.01 dBm | -16.01 dB |
| 2.695 GHz | 2.705 GHz | 1.000 MHz | 2.70273 GHz | -32.69 dBm | -19.69 dB |
| 2.705 GHz | 2.715 GHz | 1.000 MHz | 2.70528 GHz | -38.83 dBm | -13.83 dB |

Band41_15MHz_16QAM_41515_75RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 200.000 kHz | 2.67805 GHz | 6.44 dBm | -23.56 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.69003 GHz | -31.58 dBm | -21.58 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69102 GHz | -23.56 dBm | -13.56 dB |
| 2.695 GHz | 2.705 GHz | 1.000 MHz | 2.69561 GHz | -26.96 dBm | -13.96 dB |
| 2.705 GHz | 2.715 GHz | 1.000 MHz | 2.70948 GHz | -35.02 dBm | -10.02 dB |

Band41_20MHz_QPSK_39750_1RB#0

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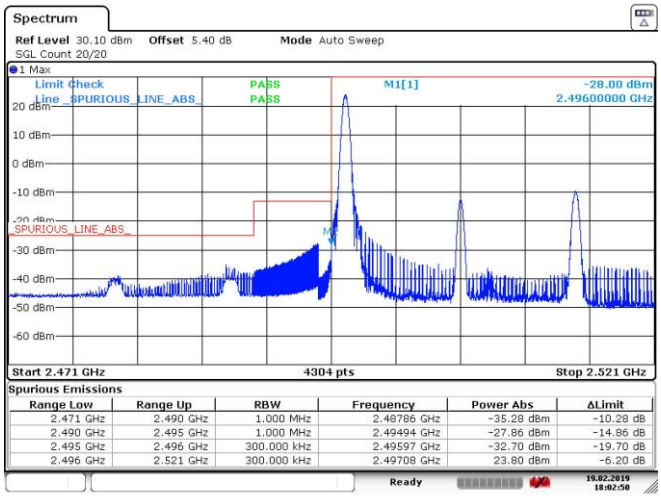
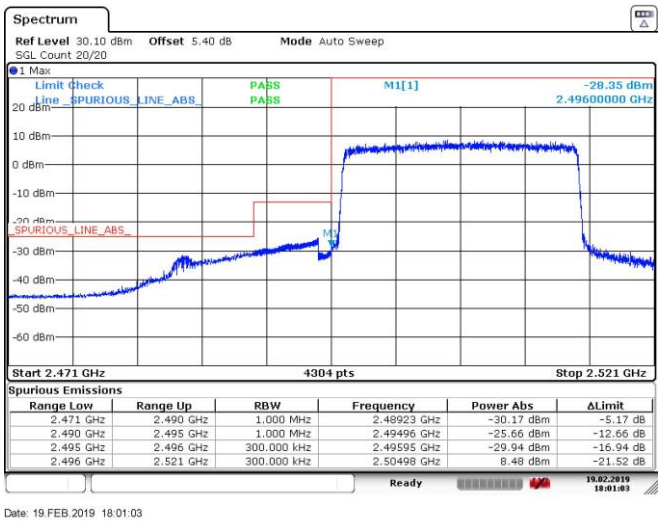



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48786 GHz | -35.28 dBm | -10.28 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49494 GHz | -27.86 dBm | -14.86 dB |
| 2.495 GHz | 2.496 GHz | 300.000 kHz | 2.49597 GHz | -32.70 dBm | -19.70 dB |
| 2.496 GHz | 2.521 GHz | 300.000 kHz | 2.49708 GHz | 23.80 dBm | -6.20 dB |

Band41_20MHz_QPSK_39750_100RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.471 GHz | 2.490 GHz | 1.000 MHz | 2.48923 GHz | -30.17 dBm | -5.17 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49496 GHz | -25.66 dBm | -12.66 dB |
| 2.495 GHz | 2.496 GHz | 300.000 kHz | 2.49595 GHz | -29.94 dBm | -16.94 dB |
| 2.496 GHz | 2.521 GHz | 300.000 kHz | 2.50498 GHz | 8.48 dBm | -21.52 dB |

Band41_20MHz_QPSK_41490_1RB#99

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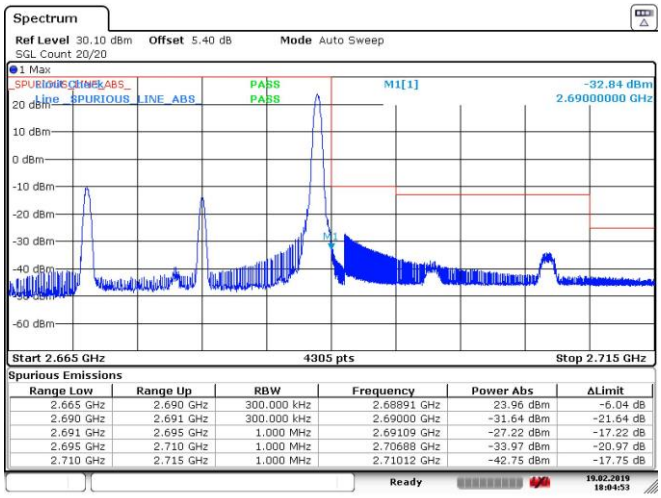
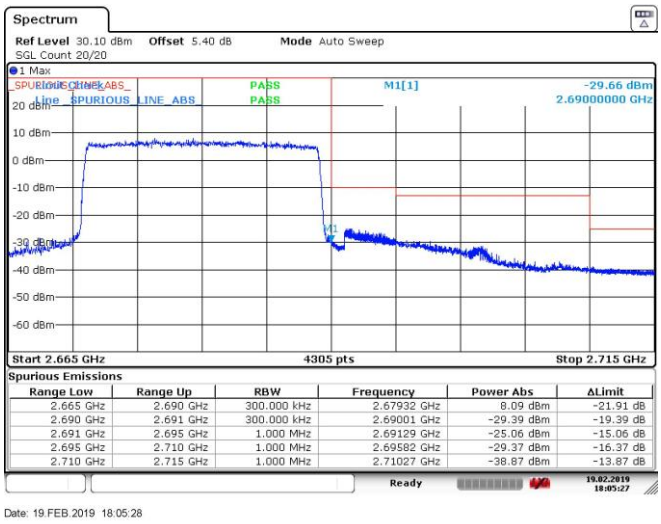



Band41_20MHz_QPSK_41490_100RB#0




Band41_20MHz_16QAM_39750_1RB#0

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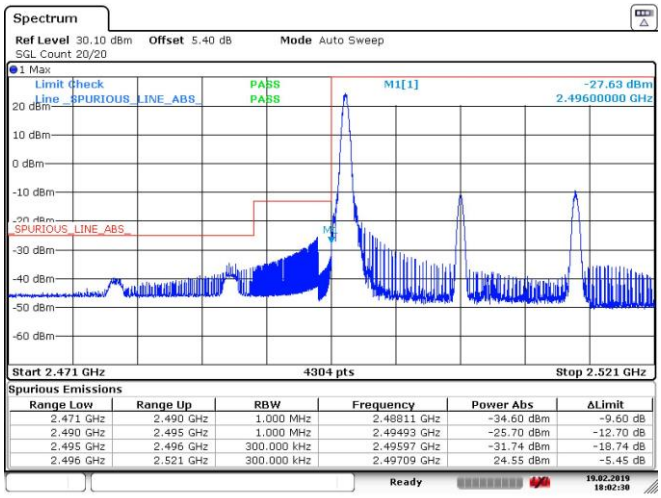


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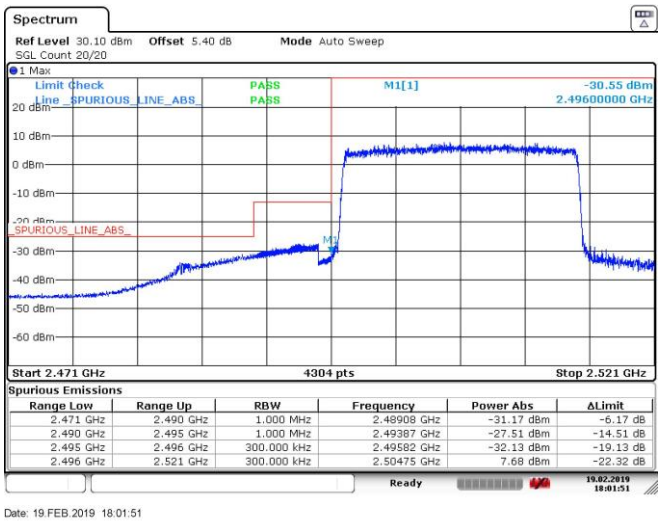


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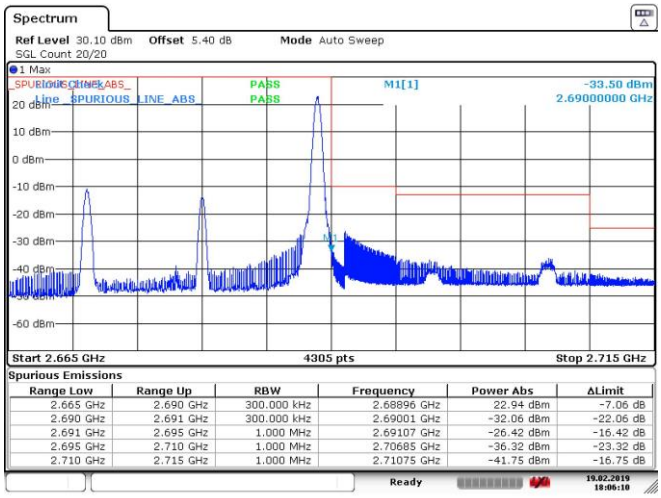
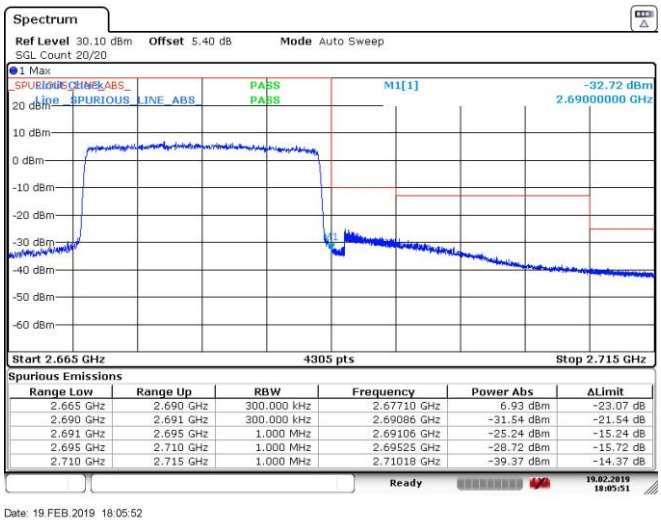



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 300.000 kHz | 2.68896 GHz | 22.94 dBm | -7.06 dB |
| 2.690 GHz | 2.691 GHz | 300.000 kHz | 2.69001 GHz | -32.06 dBm | -22.06 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69107 GHz | -26.42 dBm | -16.42 dB |
| 2.695 GHz | 2.710 GHz | 1.000 MHz | 2.70685 GHz | -36.32 dBm | -23.32 dB |
| 2.710 GHz | 2.715 GHz | 1.000 MHz | 2.71075 GHz | -41.75 dBm | -16.75 dB |

Date: 19.FEB.2019 18:06:11

Band41_20MHz_16QAM_41490_100RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.665 GHz | 2.690 GHz | 300.000 kHz | 2.67710 GHz | 6.93 dBm | -23.07 dB |
| 2.690 GHz | 2.691 GHz | 300.000 kHz | 2.69086 GHz | -31.54 dBm | -21.54 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.69106 GHz | -25.24 dBm | -15.24 dB |
| 2.695 GHz | 2.710 GHz | 1.000 MHz | 2.69525 GHz | -28.72 dBm | -15.72 dB |
| 2.710 GHz | 2.715 GHz | 1.000 MHz | 2.71018 GHz | -39.37 dBm | -14.37 dB |

Date: 19.FEB.2019 18:05:52

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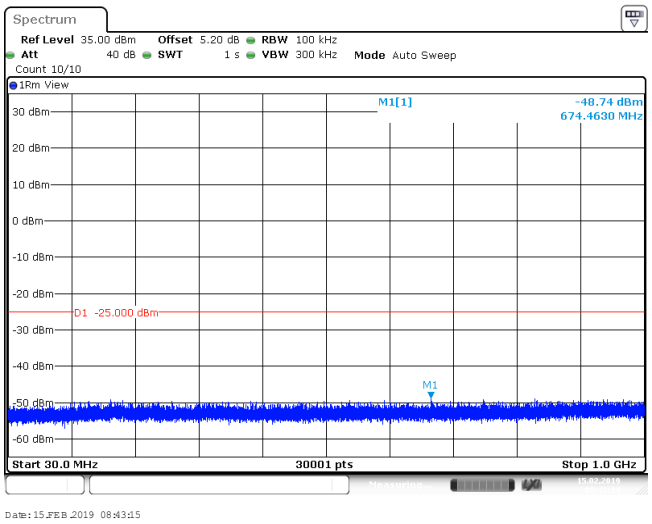
# 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

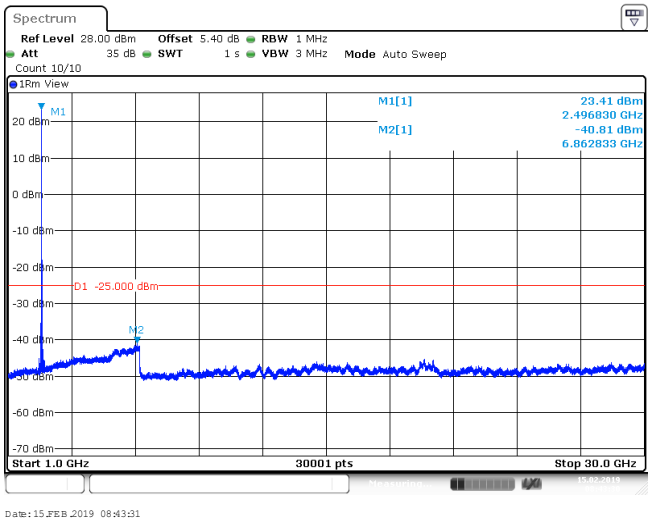
Remark2: only the worst case data displayed in this report.

## 6.1. Test Plots

Band41_20MHz_QPSK_39750_1RB#0




Band41_20MHz_QPSK_39750_1RB#0




Band41_20MHz_QPSK_40620_1RB#0

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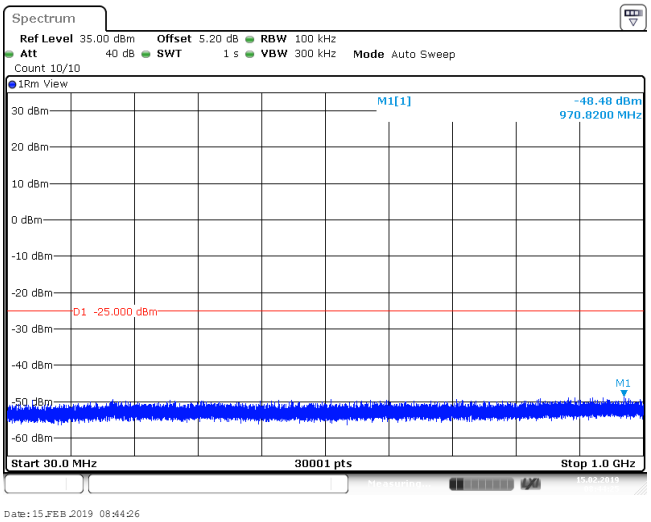


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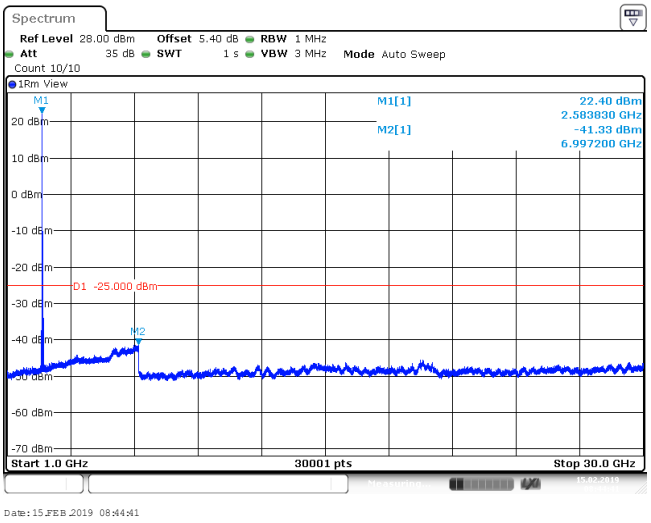


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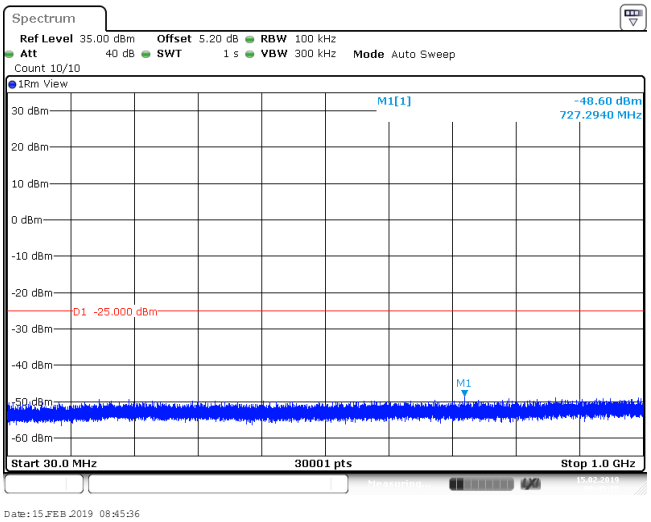


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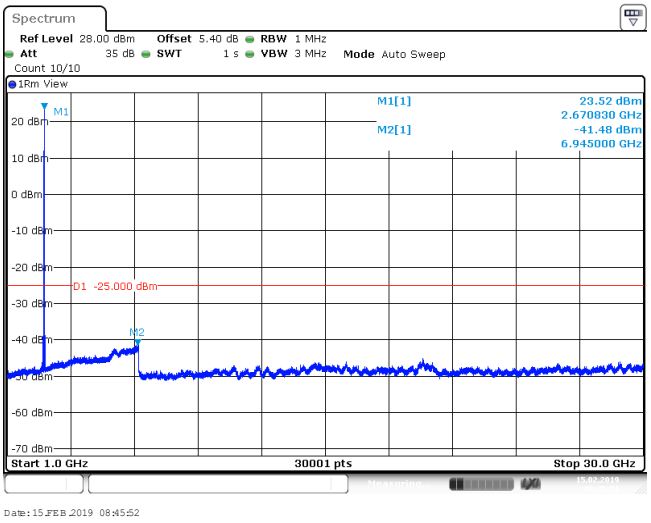


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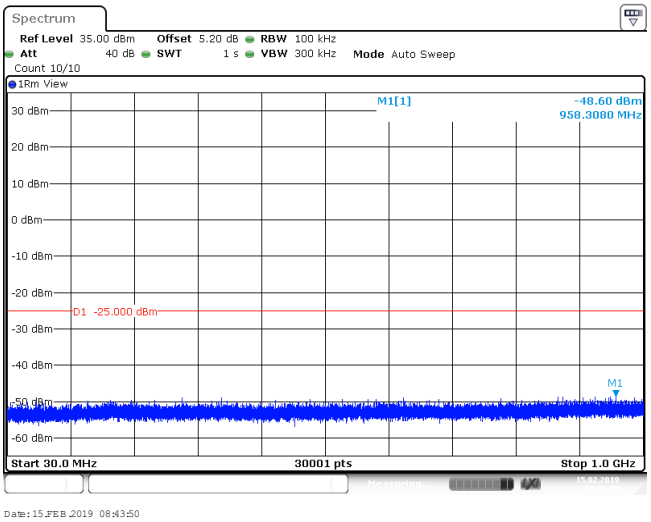


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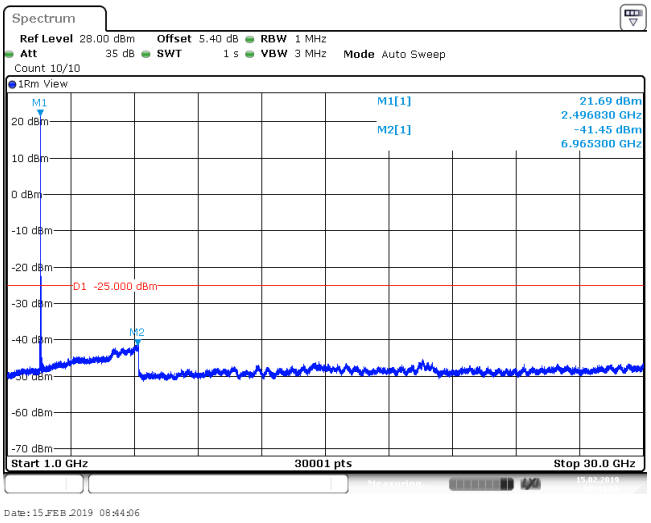


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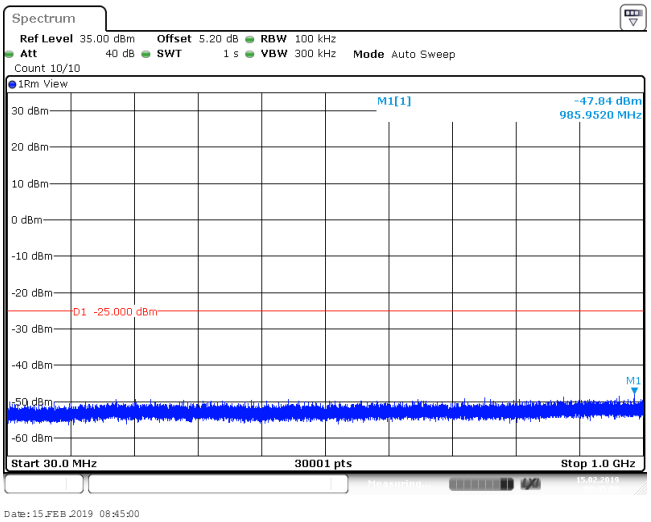


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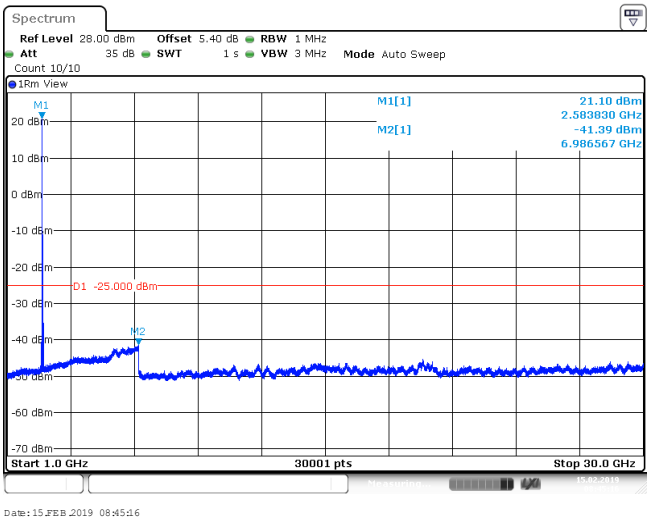


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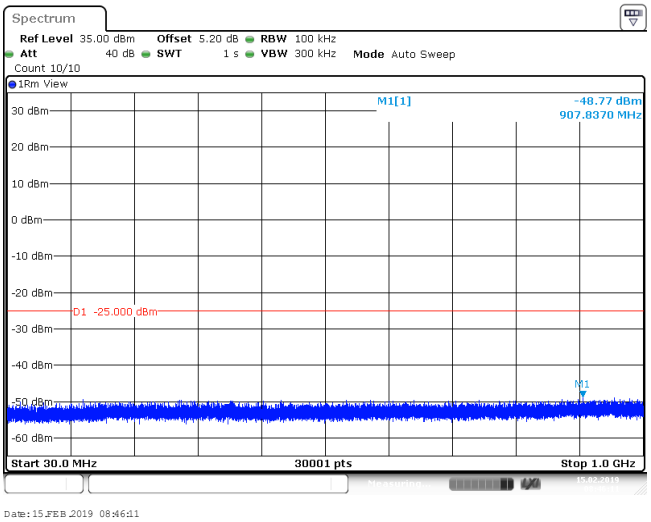


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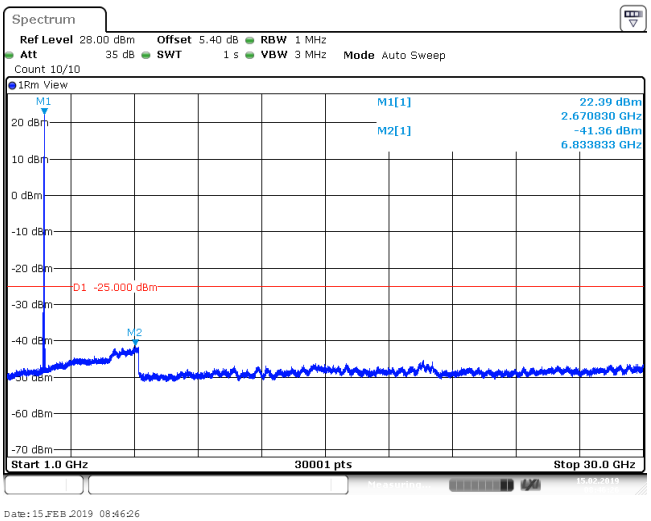


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# 7. Field Strength of Spurious Radiation

## 7.1. Test BAND = LTE BAND 41

### 7.1.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 50.5650 | -71.60 | -25.00 | 46.60 | Vertical |
| 114.0062 | -65.38 | -25.00 | 40.38 | Vertical |
| 497.6604 | -66.05 | -25.00 | 41.05 | Vertical |
| 2699.9400 | -37.57 | -25.00 | 12.57 | Vertical |
| 4602.5534 | -55.76 | -25.00 | 30.76 | Vertical |
| 17985.4995 | -33.63 | -25.00 | 8.63 | Vertical |
| 43.8232 | -64.80 | -25.00 | 39.80 | Horizontal |
| 151.2561 | -70.52 | -25.00 | 45.52 | Horizontal |
| 694.3862 | -63.10 | -25.00 | 38.10 | Horizontal |
| 4602.5534 | -55.85 | -25.00 | 30.85 | Horizontal |
| 9333.2111 | -48.86 | -25.00 | 23.86 | Horizontal |
| 17995.9999 | -37.36 | -25.00 | 12.36 | Horizontal |

#### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 69.2870 | -69.57 | -25.00 | 44.57 | Vertical |
| 113.8607 | -65.21 | -25.00 | 40.21 | Vertical |
| 602.5226 | -63.99 | -25.00 | 38.99 | Vertical |
| 2700.7401 | -37.54 | -25.00 | 12.54 | Vertical |
| 5105.5702 | -56.21 | -25.00 | 31.21 | Vertical |
| 17991.9997 | -33.31 | -25.00 | 8.31 | Vertical |
| 42.8531 | -64.27 | -25.00 | 39.27 | Horizontal |
| 152.1291 | -70.98 | -25.00 | 45.98 | Horizontal |

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| | | | | |
|---|---|---|---|---|
| 520.5050 | -65.96 | -25.00 | 40.96 | Horizontal |
| 5103.5701 | -55.72 | -25.00 | 30.72 | Horizontal |
| 9314.7105 | -49.38 | -25.00 | 24.38 | Horizontal |
| 16399.4466 | -38.45 | -25.00 | 13.45 | Horizontal |

### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 68.7049 | -69.46 | -25.00 | 44.46 | Vertical |
| 108.0404 | -65.53 | -25.00 | 40.53 | Vertical |
| 584.8677 | -64.28 | -25.00 | 39.28 | Vertical |
| 2700.3401 | -37.67 | -25.00 | 12.67 | Vertical |
| 4762.0587 | -52.98 | -25.00 | 27.98 | Vertical |
| 17885.4962 | -35.67 | -25.00 | 10.67 | Vertical |
| 43.2412 | -64.36 | -25.00 | 39.36 | Horizontal |
| 150.3345 | -69.44 | -25.00 | 44.44 | Horizontal |
| 707.8214 | -62.82 | -25.00 | 37.82 | Horizontal |
| 2701.9404 | -36.22 | -25.00 | 11.22 | Horizontal |
| 7478.1493 | -53.13 | -25.00 | 28.13 | Horizontal |
| 16390.4463 | -38.61 | -25.00 | 13.61 | Horizontal |

### 7.1.1.4. Spot check worse mode

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 47.7519 | -70.71 | -25.00 | 45.71 | Vertical |
| 111.1931 | -64.15 | -25.00 | 39.15 | Vertical |
| 586.9533 | -63.14 | -25.00 | 38.14 | Vertical |
| 5168.0723 | -46.96 | -25.00 | 21.96 | Vertical |
| 10336.7446 | -37.84 | -25.00 | 12.84 | Vertical |
| 17995.4999 | -33.49 | -25.00 | 8.49 | Vertical |
| 43.6777 | -64.04 | -25.00 | 39.04 | Horizontal |
| 151.5956 | -67.14 | -25.00 | 42.14 | Horizontal |

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| | | | | |
|---|---|---|---|---|
| 243.0227 | -68.28 | -25.00 | 43.28 | Horizontal |
| 5168.5723 | -51.27 | -25.00 | 26.27 | Horizontal |
| 10336.2445 | -46.43 | -25.00 | 21.43 | Horizontal |
| 17997.4999 | -38.32 | -25.00 | 13.32 | Horizontal |

Remark:

1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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# 8. Frequency Stability

## 8.1. Frequency Vs Voltage

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VL | NT | -1.70 | -0.000678 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VN | NT | -1.30 | -0.000519 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VH | NT | -0.70 | -0.000279 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VL | NT | -1.00 | -0.000386 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VN | NT | -2.10 | -0.000810 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VH | NT | 2.50 | 0.000964 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VL | NT | 0.70 | 0.000261 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VN | NT | -1.30 | -0.000485 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VH | NT | -3.70 | -0.001381 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | VL | NT | -3.10 | -0.001237 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | VN | NT | 1.90 | 0.000758 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | VH | NT | -1.30 | -0.000519 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | VL | NT | 1.10 | 0.000424 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | VN | NT | -1.20 | -0.000463 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | VH | NT | 3.20 | 0.001234 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | VL | NT | -5.20 | -0.001940 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | VN | NT | -2.90 | -0.001082 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | VH | NT | 1.60 | 0.000597 | ±2.5 | PASS |

## 8.2. Frequency Vs Temperature

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | -30 | -1.00 | -0.000399 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | -20 | 3.30 | 0.001317 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 0 | -4.70 | -0.001875 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 10 | 0.20 | 0.000080 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 20 | 1.50 | 0.000599 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 30 | 1.10 | 0.000439 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 40 | 3.00 | 0.001197 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 50 | 1.10 | 0.000439 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -30 | 1.50 | 0.000578 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -20 | -1.80 | -0.000694 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 0 | 3.30 | 0.001273 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 10 | 2.20 | 0.000848 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 20 | -2.90 | -0.001118 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 30 | -2.70 | -0.001041 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 40 | 4.20 | 0.001620 | ±2.5 | PASS |

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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 50 | 0.40 | 0.000154 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -30 | 0.10 | 0.000037 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -20 | 0.30 | 0.000112 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 0 | -2.80 | -0.001045 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 10 | -3.50 | -0.001306 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 20 | 1.60 | 0.000597 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 30 | 1.50 | 0.000560 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 40 | -3.90 | -0.001455 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 50 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | -30 | -3.80 | -0.001516 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | -20 | -3.80 | -0.001516 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 0 | 1.90 | 0.000758 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 10 | 3.90 | 0.001556 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 20 | 3.00 | 0.001197 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 30 | 2.40 | 0.000958 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 40 | 0.70 | 0.000279 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | NV | 50 | -2.40 | -0.000958 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | -30 | 4.90 | 0.001890 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | -20 | -0.30 | -0.000116 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 0 | -1.40 | -0.000540 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 10 | 4.10 | 0.001581 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 20 | 3.30 | 0.001273 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 30 | 0.10 | 0.000039 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 40 | -0.80 | -0.000309 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | NV | 50 | 3.60 | 0.001388 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | -30 | -3.90 | -0.001455 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | -20 | 2.00 | 0.000746 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 0 | 1.40 | 0.000522 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 10 | -1.30 | -0.000485 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 20 | -1.20 | -0.000448 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 30 | -3.60 | -0.001343 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 40 | -2.60 | -0.000970 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | NV | 50 | 2.40 | 0.000896 | ±2.5 | PASS |

The End

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