# Appendix B.14

## LTE Band 41

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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 |
|---|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | QPSK | 39675 | 1RB#0 | 23.4 | 24.98 | 33 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#12 | 23.38 | 24.96 | 33 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#24 | 23.4 | 24.98 | 33 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 22.51 | 24.09 | 33 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#0 | 23.51 | 25.09 | 33 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#12 | 23.45 | 25.03 | 33 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#24 | 23.4 | 24.98 | 33 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 22.61 | 24.19 | 33 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#0 | 23.21 | 24.79 | 33 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#12 | 23.19 | 24.77 | 33 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#24 | 23.17 | 24.75 | 33 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 22.35 | 23.93 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#0 | 22.78 | 24.36 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#12 | 22.71 | 24.29 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#24 | 22.75 | 24.33 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 20.62 | 22.2 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#0 | 22.86 | 24.44 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#12 | 22.8 | 24.38 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#24 | 22.74 | 24.32 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 21.64 | 23.22 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#0 | 22.57 | 24.15 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#12 | 22.55 | 24.13 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#24 | 22.51 | 24.09 | 33 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 21.38 | 22.96 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 39675 | 1RB#0 | 21.57 | 23.15 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 39675 | 1RB#12 | 21.48 | 23.06 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 39675 | 1RB#24 | 21.55 | 23.13 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 39675 | 25RB#0 | 20.65 | 22.23 | 33 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | 64QAM | 40620 | 1RB#0 | 21.61 | 23.19 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 40620 | 1RB#12 | 21.61 | 23.19 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 40620 | 1RB#24 | 21.52 | 23.1 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 40620 | 25RB#0 | 20.69 | 22.27 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 41565 | 1RB#0 | 21.34 | 22.92 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 41565 | 1RB#12 | 21.31 | 22.89 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 41565 | 1RB#24 | 21.3 | 22.88 | 33 | PASS |
| Band41 | 5MHz | 64QAM | 41565 | 25RB#0 | 20.43 | 22.01 | 33 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#0 | 23.43 | 25.01 | 33 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#24 | 23.38 | 24.96 | 33 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#49 | 23.4 | 24.98 | 33 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 22.58 | 24.16 | 33 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#0 | 23.54 | 25.12 | 33 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#24 | 23.48 | 25.06 | 33 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#49 | 23.36 | 24.94 | 33 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 22.62 | 24.2 | 33 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#0 | 22.96 | 24.54 | 33 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#24 | 23.21 | 24.79 | 33 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#49 | 22.92 | 24.5 | 33 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 22.21 | 23.79 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0 | 22.77 | 24.35 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 22.74 | 24.32 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 22.75 | 24.33 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 20.65 | 22.23 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0 | 22.89 | 24.47 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 22.84 | 24.42 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 22.74 | 24.32 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 21.67 | 23.25 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0 | 22.32 | 23.9 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 22.57 | 24.15 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 22.29 | 23.87 | 33 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 21.26 | 22.84 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 39700 | 1RB#0 | 21.61 | 23.19 | 33 | PASS |

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|---|---|---|---|---|---|---|---|---|
| Band41 | 10MHz | 64QAM | 39700 | 1RB#24 | 21.47 | 23.05 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 39700 | 1RB#49 | 21.55 | 23.13 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 39700 | 50RB#0 | 20.63 | 22.21 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 40620 | 1RB#0 | 21.69 | 23.27 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 40620 | 1RB#24 | 21.55 | 23.13 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 40620 | 1RB#49 | 21.53 | 23.11 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 40620 | 50RB#0 | 20.68 | 22.26 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 41540 | 1RB#0 | 21.06 | 22.64 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 41540 | 1RB#24 | 21.34 | 22.92 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 41540 | 1RB#49 | 21.09 | 22.67 | 33 | PASS |
| Band41 | 10MHz | 64QAM | 41540 | 50RB#0 | 20.26 | 21.84 | 33 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#0 | 23.27 | 24.85 | 33 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#38 | 23.29 | 24.87 | 33 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#74 | 23.36 | 24.94 | 33 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 22.56 | 24.14 | 33 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#0 | 23.4 | 24.98 | 33 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#38 | 23.33 | 24.91 | 33 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#74 | 23.35 | 24.93 | 33 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 22.62 | 24.2 | 33 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#0 | 22.9 | 24.48 | 33 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#38 | 23.15 | 24.73 | 33 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#74 | 23.1 | 24.68 | 33 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 22.19 | 23.77 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0 | 22.69 | 24.27 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38 | 22.72 | 24.3 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74 | 22.72 | 24.3 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0 | 21.63 | 23.21 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0 | 22.82 | 24.4 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38 | 22.69 | 24.27 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74 | 22.69 | 24.27 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0 | 21.61 | 23.19 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0 | 22.21 | 23.79 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38 | 22.52 | 24.1 | 33 | PASS |

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

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|---|---|---|---|---|---|---|---|---|
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74 | 22.46 | 24.04 | 33 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0 | 21.2 | 22.78 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 39725 | 1RB#0 | 21.31 | 22.89 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 39725 | 1RB#38 | 21.42 | 23 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 39725 | 1RB#74 | 21.44 | 23.02 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 39725 | 75RB#0 | 20.64 | 22.22 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 40620 | 1RB#0 | 21.53 | 23.11 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 40620 | 1RB#38 | 21.49 | 23.07 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 40620 | 1RB#74 | 21.42 | 23 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 40620 | 75RB#0 | 20.61 | 22.19 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 41515 | 1RB#0 | 20.91 | 22.49 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 41515 | 1RB#38 | 21.24 | 22.82 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 41515 | 1RB#74 | 21.22 | 22.8 | 33 | PASS |
| Band41 | 15MHz | 64QAM | 41515 | 75RB#0 | 20.23 | 21.81 | 33 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#0 | 23.31 | 24.89 | 33 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#49 | 23.29 | 24.87 | 33 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#99 | 23.35 | 24.93 | 33 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 22.6 | 24.18 | 33 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#0 | 23.5 | 25.08 | 33 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#49 | 23.34 | 24.92 | 33 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#99 | 23.34 | 24.92 | 33 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 22.61 | 24.19 | 33 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#0 | 22.75 | 24.33 | 33 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#49 | 23.13 | 24.71 | 33 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#99 | 23.03 | 24.61 | 33 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 22.16 | 23.74 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0 | 22.61 | 24.19 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49 | 22.63 | 24.21 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99 | 22.72 | 24.3 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 21.67 | 23.25 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0 | 22.86 | 24.44 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49 | 22.7 | 24.28 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99 | 22.6 | 24.18 | 33 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 21.64 | 23.22 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0 | 22.09 | 23.67 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49 | 22.47 | 24.05 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99 | 22.34 | 23.92 | 33 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 21.2 | 22.78 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 1RB#0 | 21.35 | 22.93 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 1RB#49 | 21.42 | 23 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 1RB#99 | 21.43 | 23.01 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 100RB#0 | 20.65 | 22.23 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 1RB#0 | 21.63 | 23.21 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 1RB#49 | 21.49 | 23.07 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 1RB#99 | 21.39 | 22.97 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 100RB#0 | 20.64 | 22.22 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 1RB#0 | 20.79 | 22.37 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 1RB#49 | 21.28 | 22.86 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 1RB#99 | 21.13 | 22.71 | 33 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 100RB#0 | 20.2 | 21.78 | 33 | PASS |

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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 9.00 | 13 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 8.96 | 13 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 9.04 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 9.66 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 9.52 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 9.62 | 13 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 100RB#0 | 10.04 | 13 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 100RB#0 | 9.94 | 13 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 100RB#0 | 10.18 | 13 | PASS |

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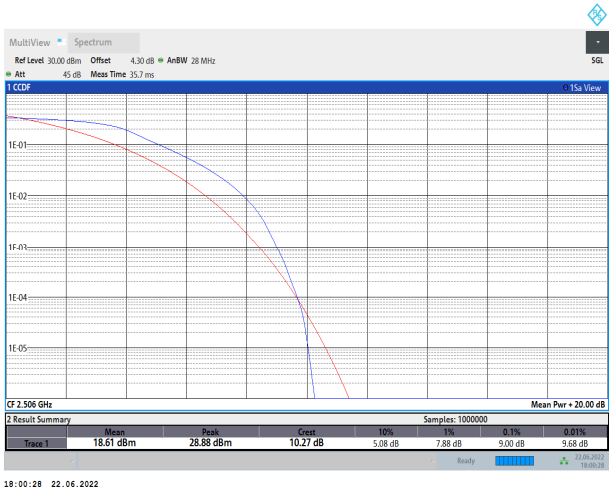
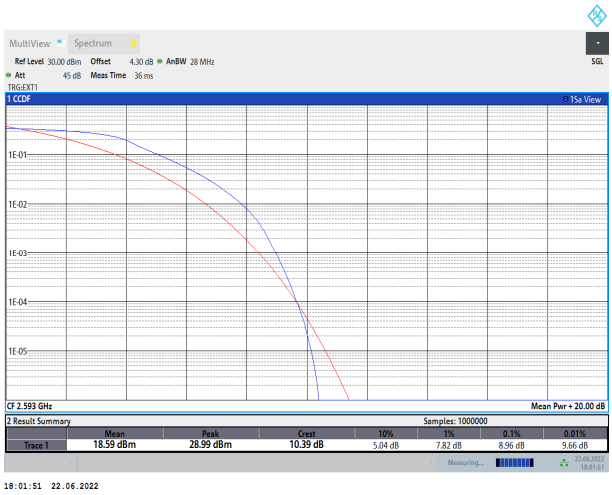
## Test Graphs

Band41-20MHz-QPSK-39750-100RB#0




Band41-20MHz-QPSK-40620-100RB#0

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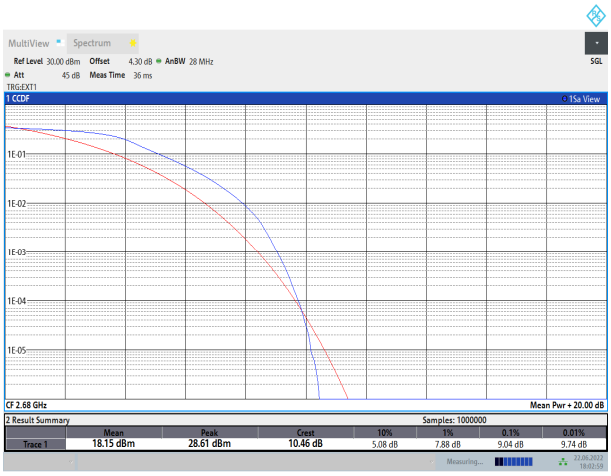
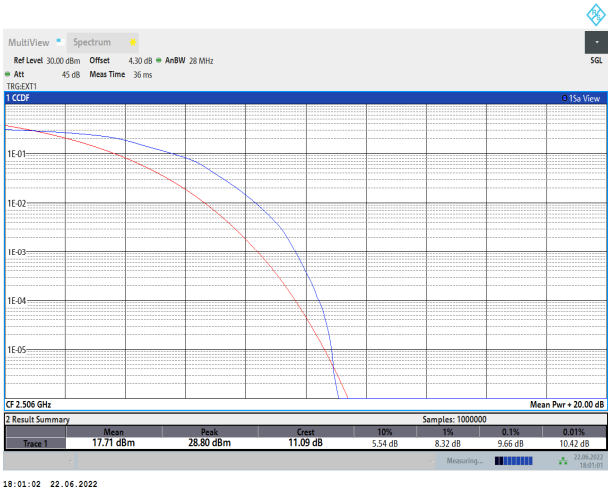
Band41-20MHz-QPSK-41490-100RB#0




Band41-20MHz-16QAM-39750-100RB#0

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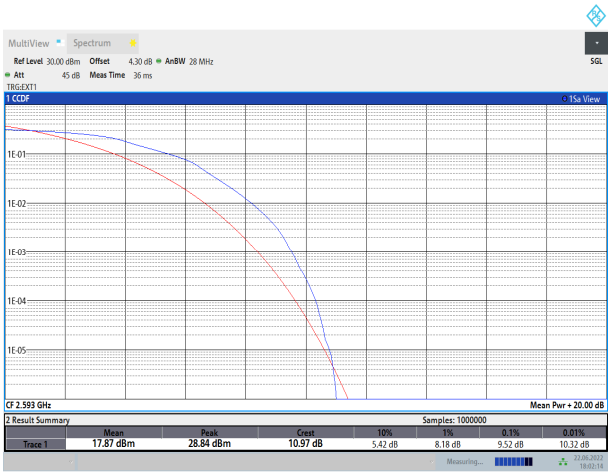
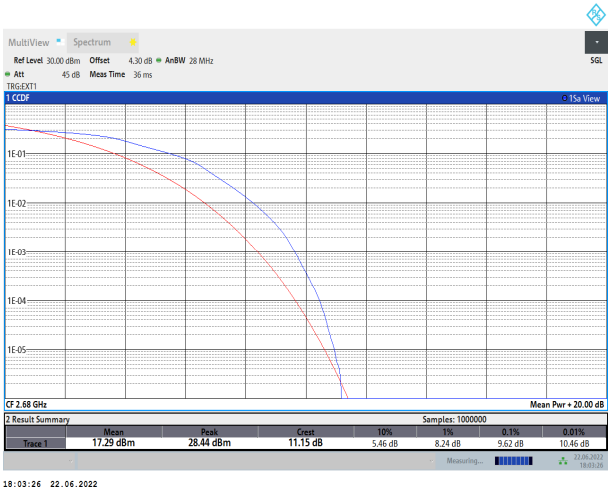
Band41-20MHz-16QAM-40620-100RB#0




Band41-20MHz-16QAM-41490-100RB#0

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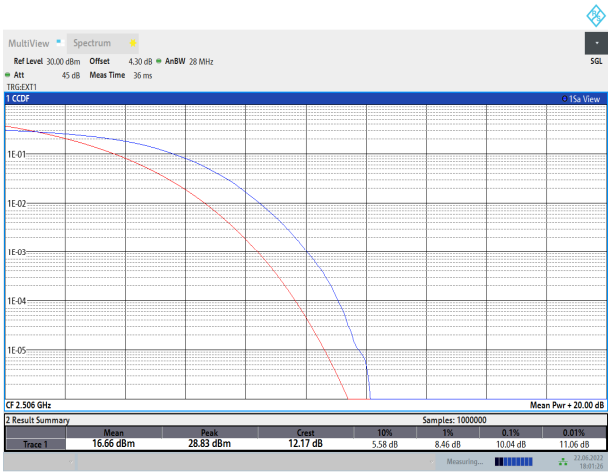
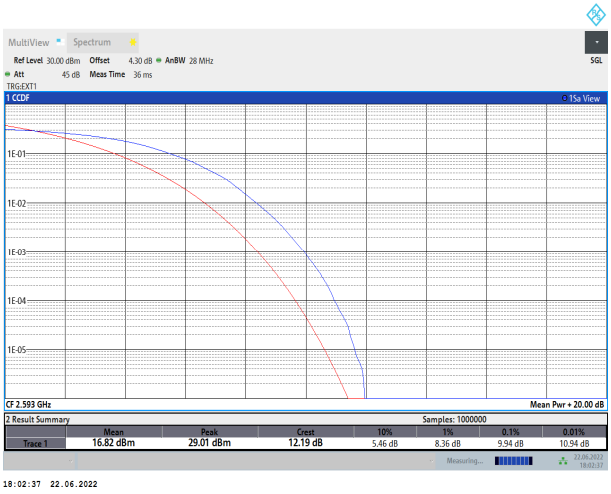
Band41-20MHz-64QAM-39750-100RB#0




Band41-20MHz-64QAM-40620-100RB#0

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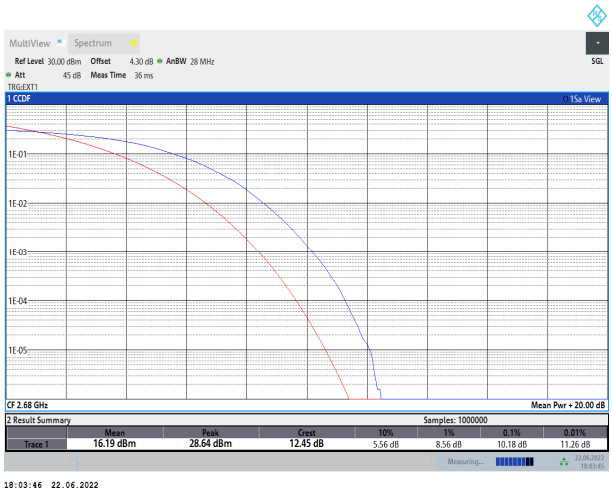
| Band41-20MHz-64QAM-41490-100RB#0 |
| --- |
|  |



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## Modulation Characteristics

### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | PASS | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | PASS | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 100RB#0 | PASS | PASS |

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## Test Graphs

| Band41-20MHz-QPSK-40620-100RB#0 |
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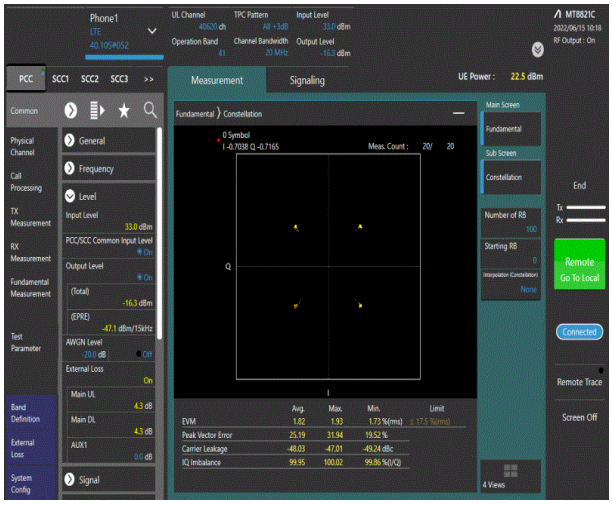
|  |



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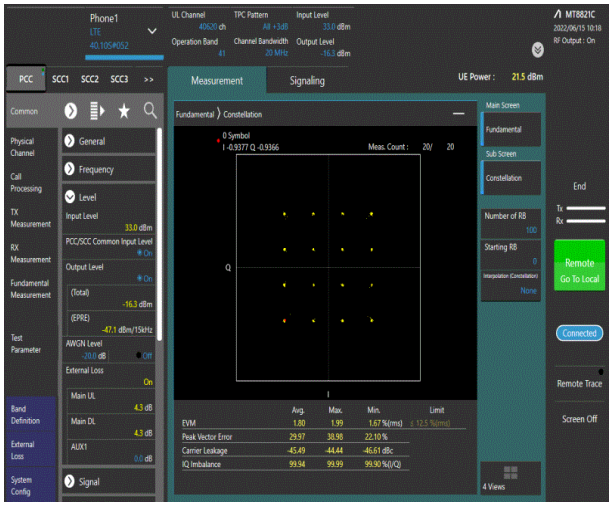
|  |



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| Band41-20MHz-64QAM-40620-100RB#0 |
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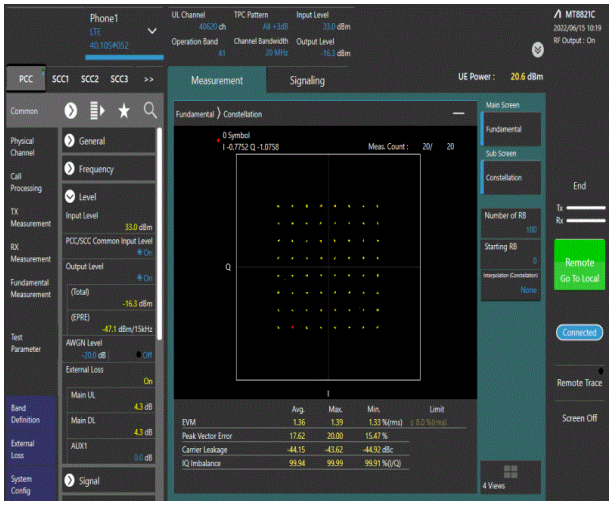
|  |



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# 26dB Bandwidth and Occupied Bandwidth

## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 4.468 | 4.86 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 4.471 | 4.85 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 4.475 | 4.85 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 4.467 | 4.88 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 4.464 | 4.87 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 4.460 | 4.87 | PASS |
| Band41 | 5MHz | 64QAM | 39675 | 25RB#0 | 4.477 | 4.84 | PASS |
| Band41 | 5MHz | 64QAM | 40620 | 25RB#0 | 4.477 | 4.85 | PASS |
| Band41 | 5MHz | 64QAM | 41565 | 25RB#0 | 4.471 | 4.85 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 8.911 | 9.70 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 8.908 | 9.72 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 8.912 | 9.70 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 8.916 | 9.56 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 8.922 | 9.56 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 8.907 | 9.58 | PASS |
| Band41 | 10MHz | 64QAM | 39700 | 50RB#0 | 8.919 | 9.70 | PASS |
| Band41 | 10MHz | 64QAM | 40620 | 50RB#0 | 8.923 | 9.64 | PASS |
| Band41 | 10MHz | 64QAM | 41540 | 50RB#0 | 8.917 | 9.68 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 13.471 | 14.79 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 13.484 | 14.79 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 13.462 | 14.76 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0 | 13.451 | 14.70 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0 | 13.466 | 14.73 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0 | 13.449 | 14.82 | PASS |
| Band41 | 15MHz | 64QAM | 39725 | 75RB#0 | 13.437 | 14.67 | PASS |
| Band41 | 15MHz | 64QAM | 40620 | 75RB#0 | 13.417 | 14.73 | PASS |
| Band41 | 15MHz | 64QAM | 41515 | 75RB#0 | 13.419 | 14.64 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 17.899 | 19.28 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 17.884 | 19.36 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 17.854 | 19.28 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 17.833 | 21.64 | PASS |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 17.832 | 19.40 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 17.845 | 19.44 | PASS |
| Band41 | 20MHz | 64QAM | 39750 | 100RB#0 | 17.848 | 19.40 | PASS |
| Band41 | 20MHz | 64QAM | 40620 | 100RB#0 | 17.844 | 19.44 | PASS |
| Band41 | 20MHz | 64QAM | 41490 | 100RB#0 | 17.849 | 19.24 | PASS |

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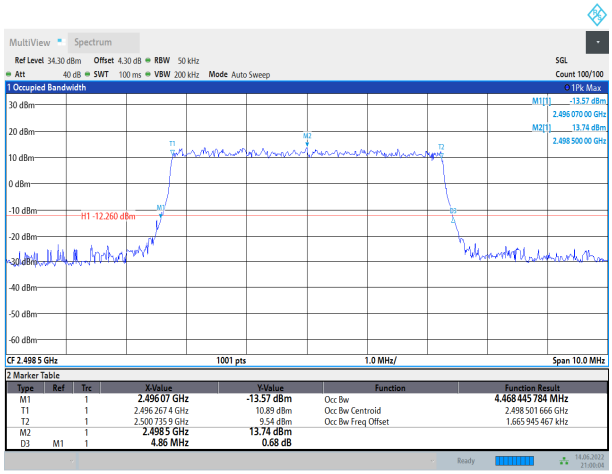
## Test Graphs

### Band41-5MHz-QPSK-39675-25RB#0

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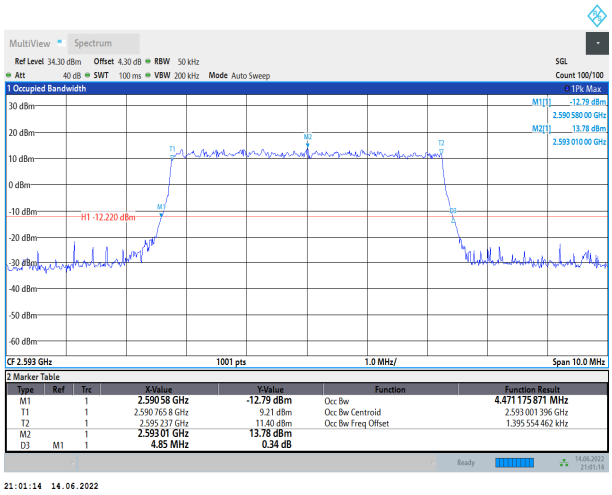


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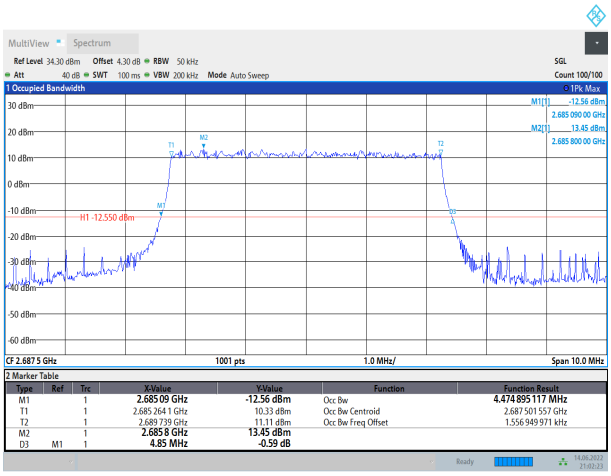
## Band41-5MHz-QPSK-41565-25RB#0

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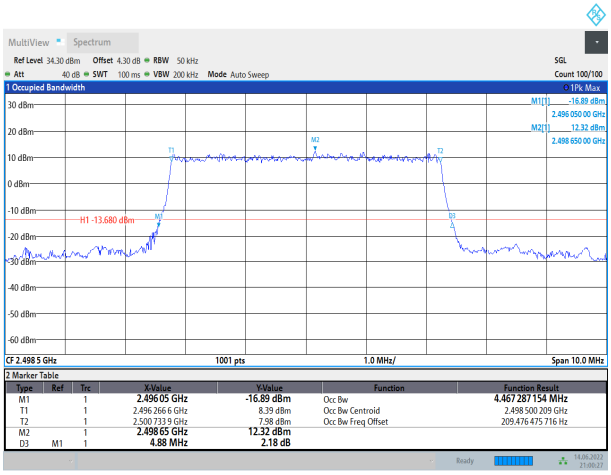


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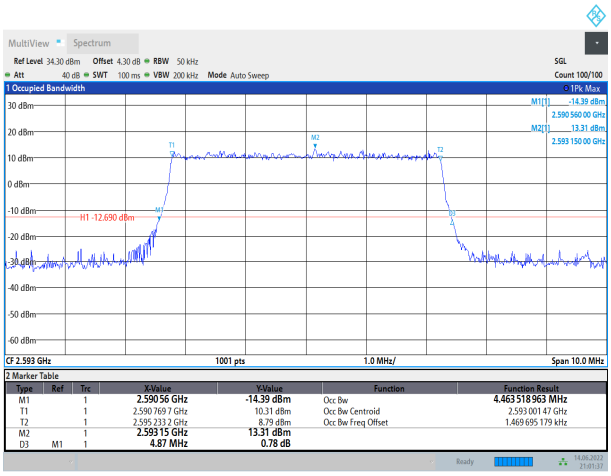
## Band41-5MHz-16QAM-40620-25RB#0

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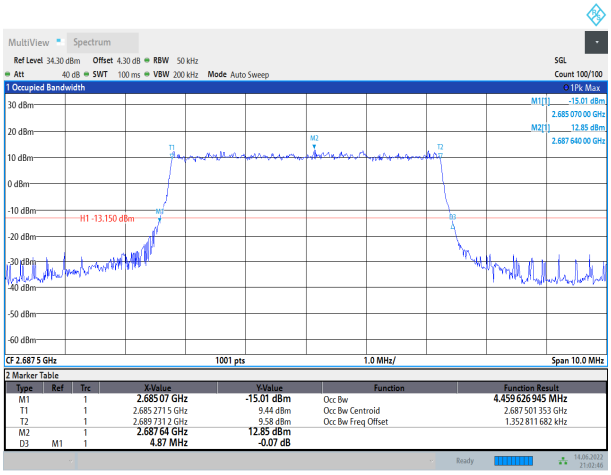


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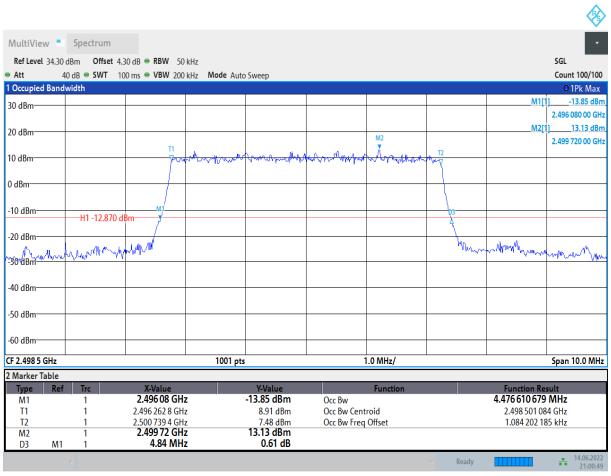
## Band41-5MHz-64QAM-39675-25RB#0

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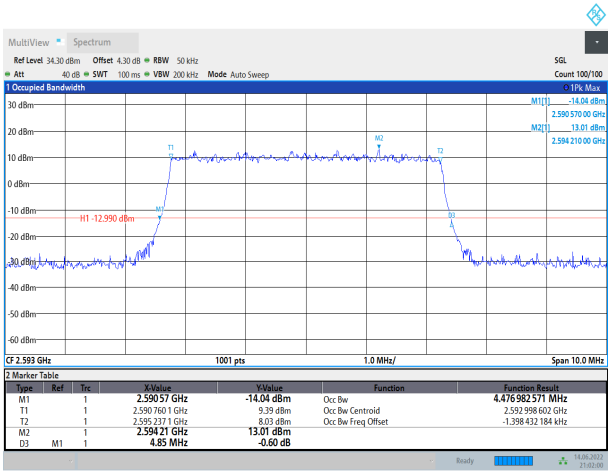


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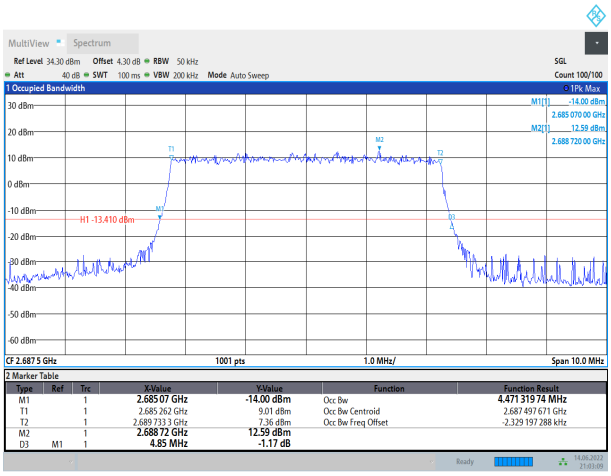
## Band41-5MHz-64QAM-41565-25RB#0

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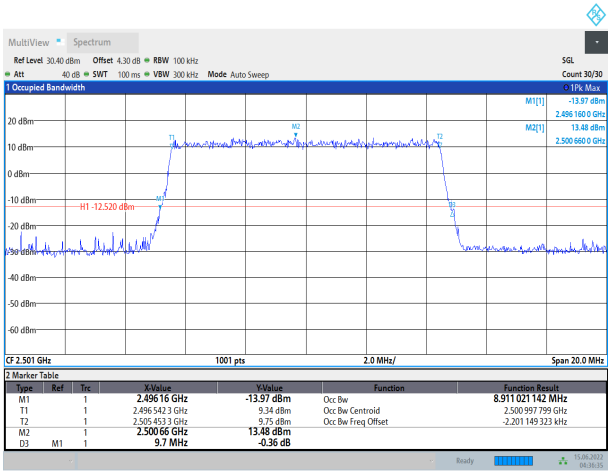
## Band41-10MHz-QPSK-39700-50RB#0

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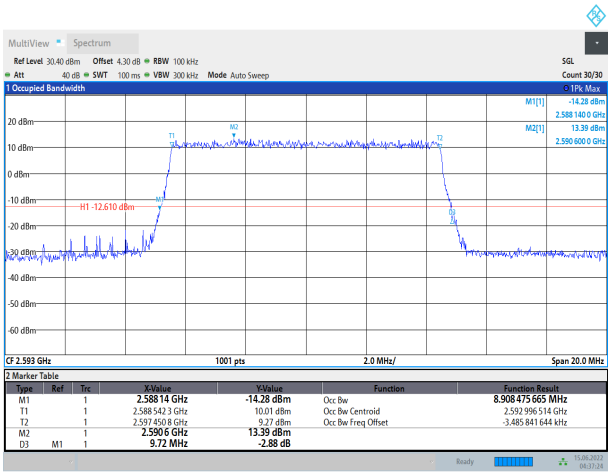
## Band41-10MHz-QPSK-40620-50RB#0

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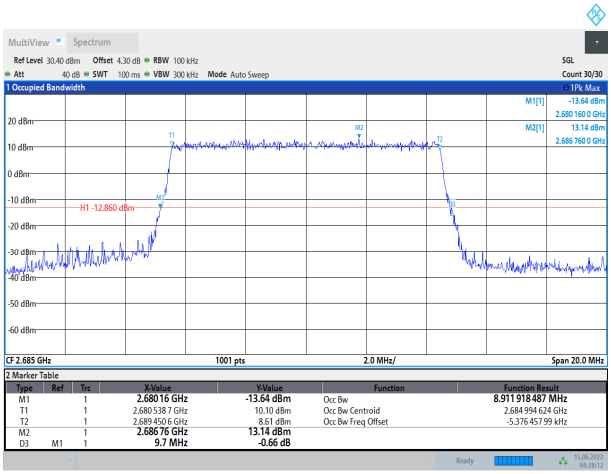


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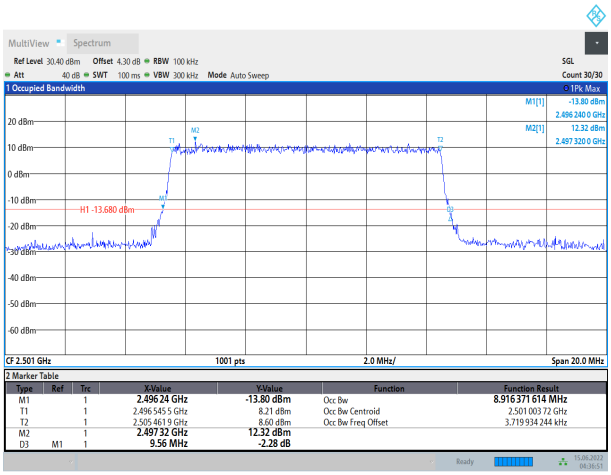
## Band41-10MHz-16QAM-39700-50RB#0

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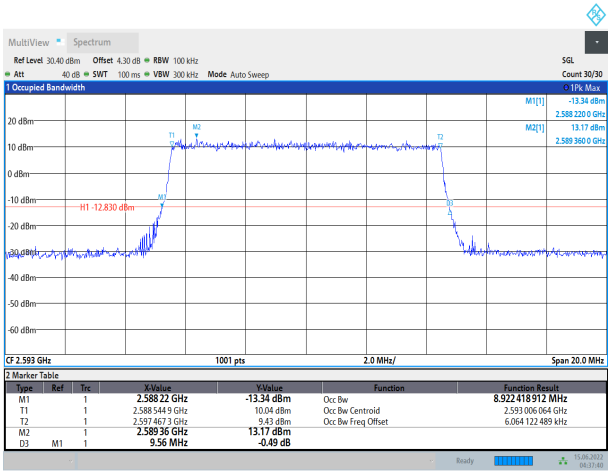


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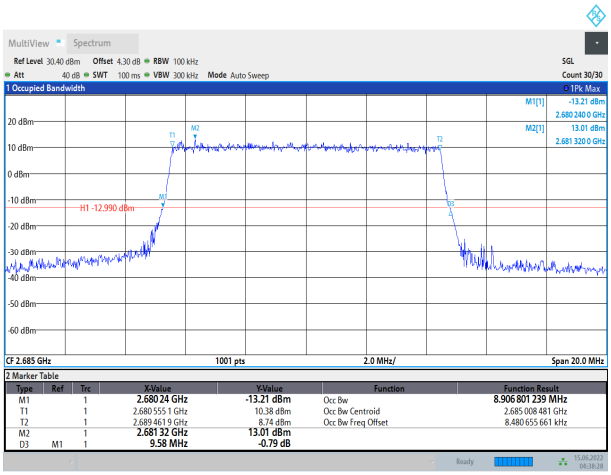
## Band41-10MHz-16QAM-41540-50RB#0

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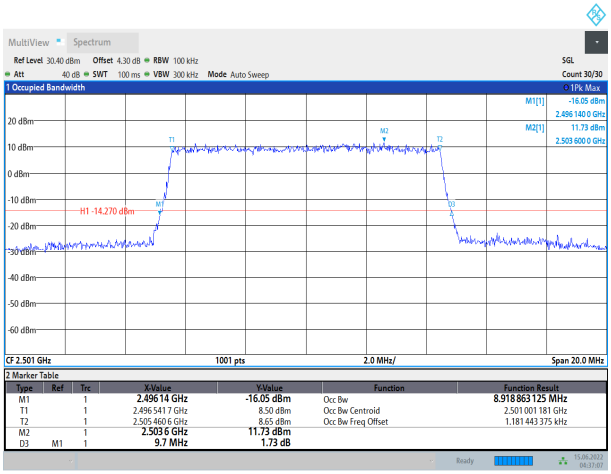
## Band41-10MHz-64QAM-39700-50RB#0

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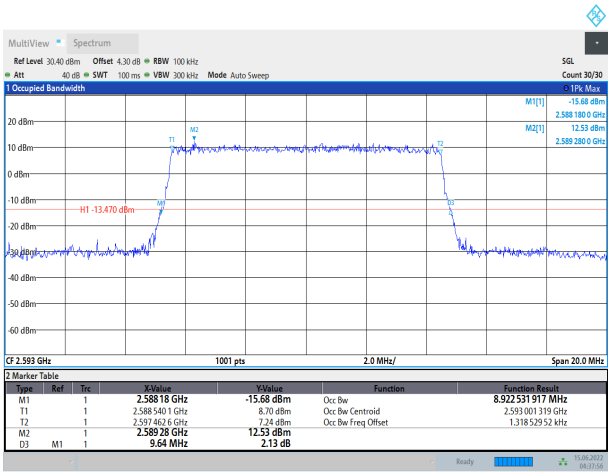
## Band41-10MHz-64QAM-40620-50RB#0

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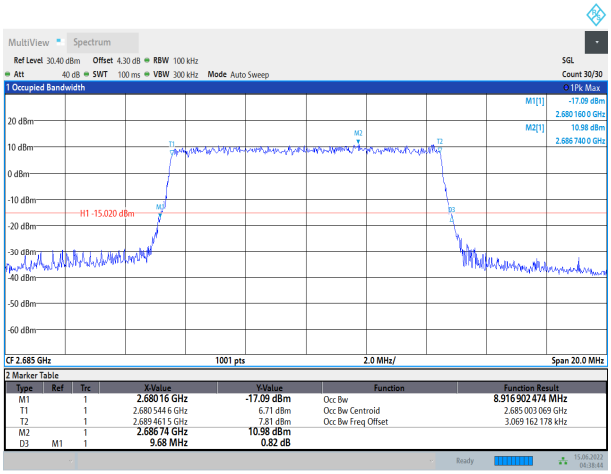
## Band41-10MHz-64QAM-41540-50RB#0

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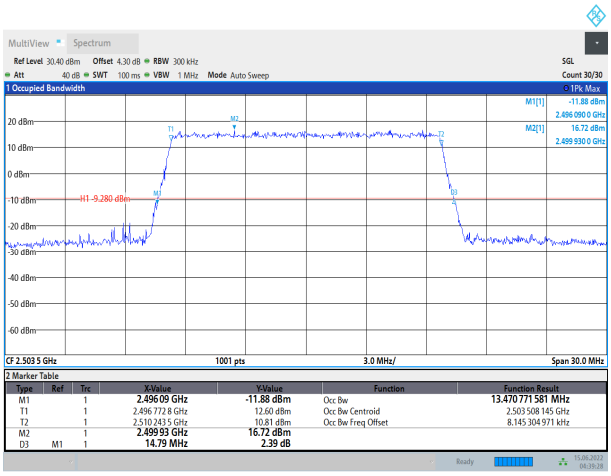
## Band41-15MHz-QPSK-39725-75RB#0

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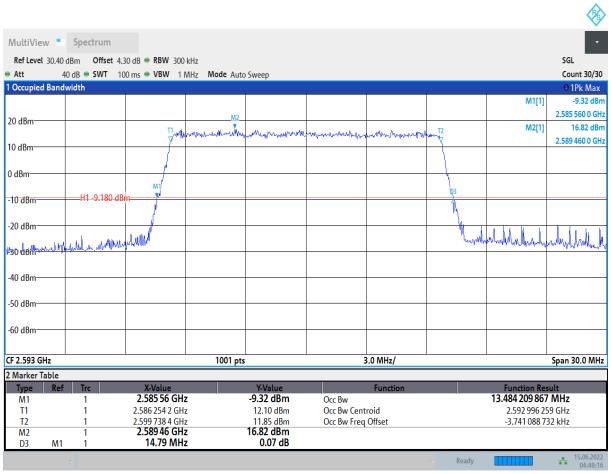
## Band41-15MHz-QPSK-40620-75RB#0

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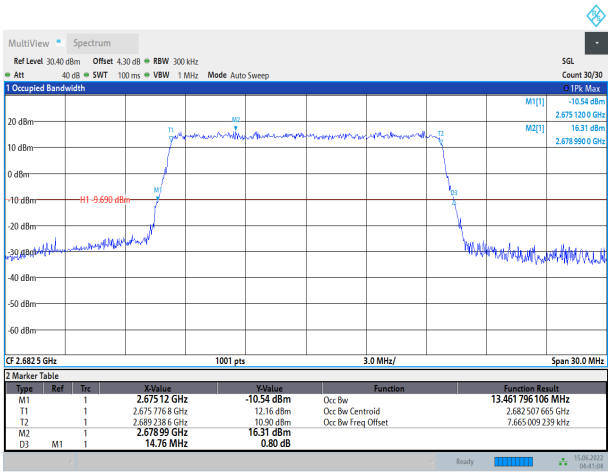
## Band41-15MHz-QPSK-41515-75RB#0

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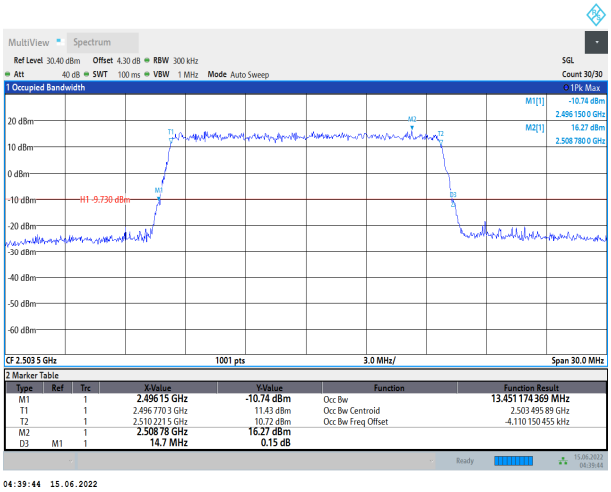


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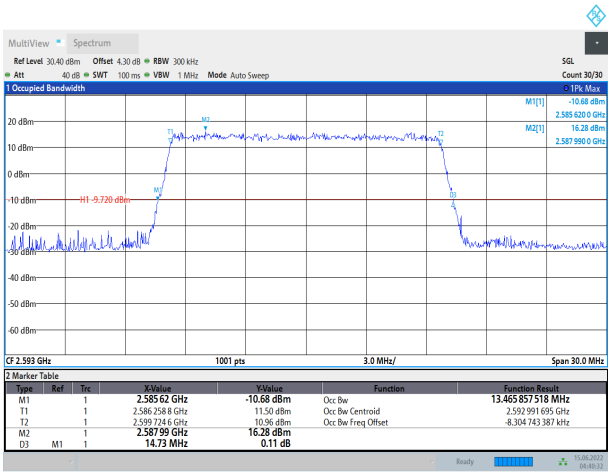
## Band41-15MHz-16QAM-40620-75RB#0

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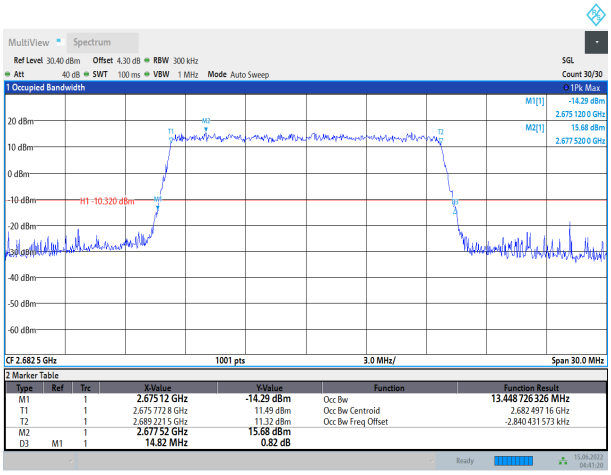


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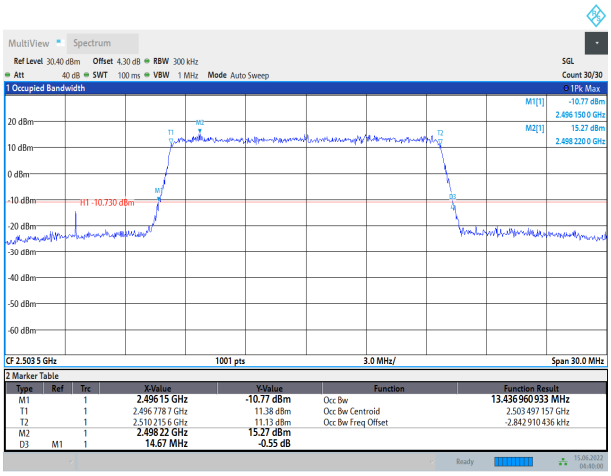
## Band41-15MHz-64QAM-39725-75RB#0

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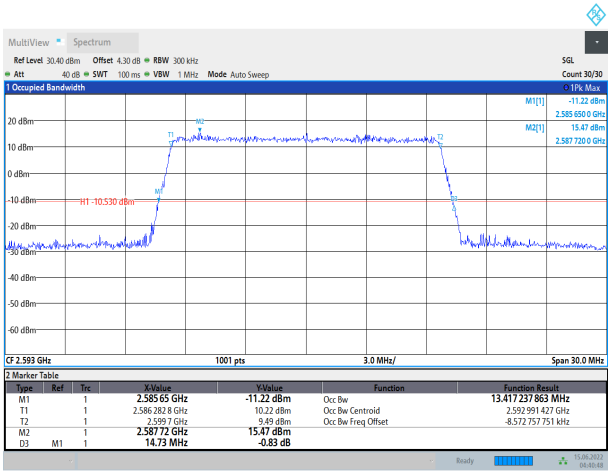


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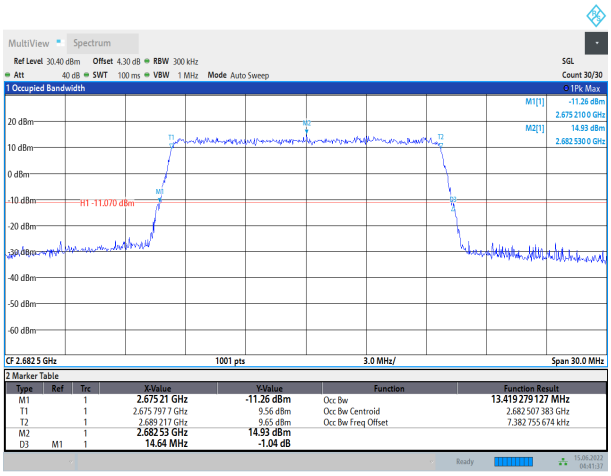
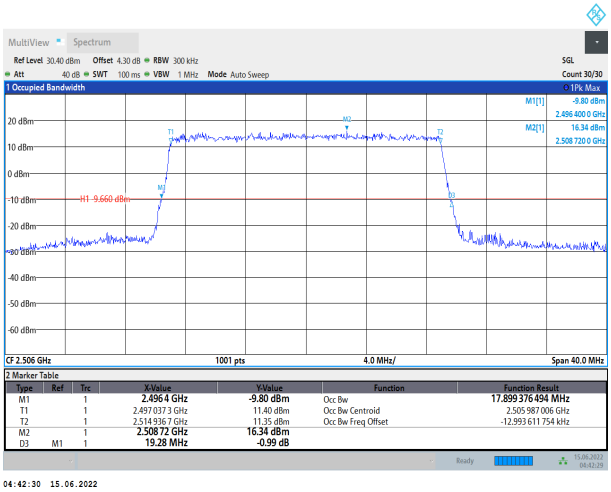
## Band41-15MHz-64QAM-41515-75RB#0




## Band41-20MHz-QPSK-39750-100RB#0

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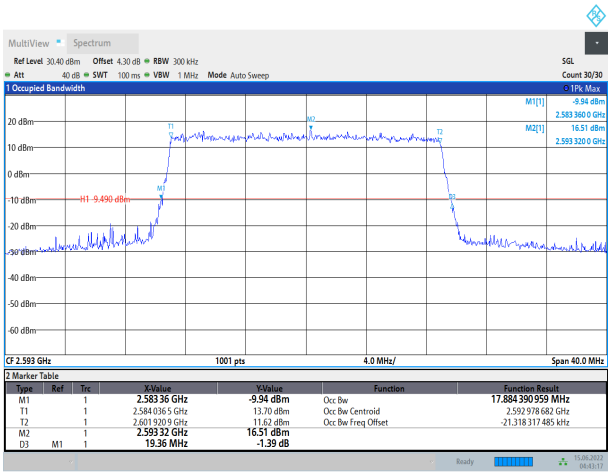
## Band41-20MHz-QPSK-40620-100RB#0

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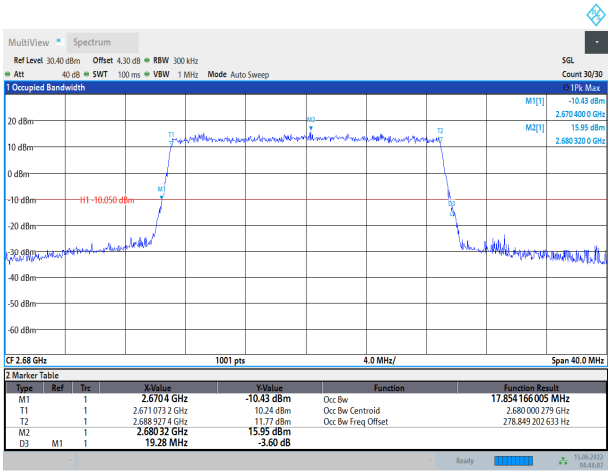


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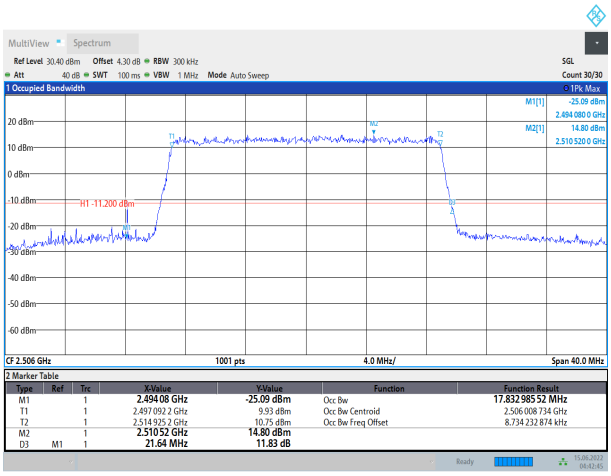
## Band41-20MHz-16QAM-39750-100RB#0

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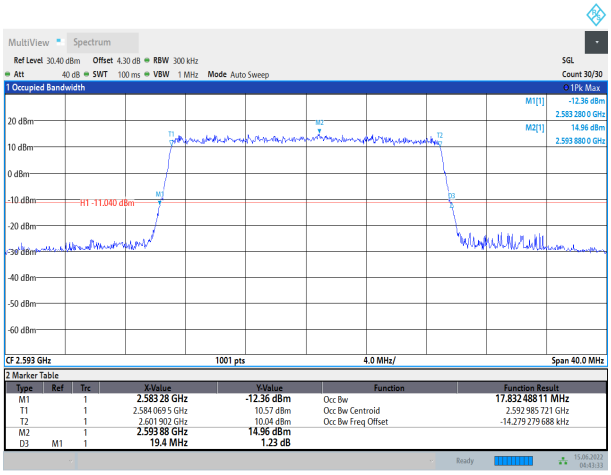


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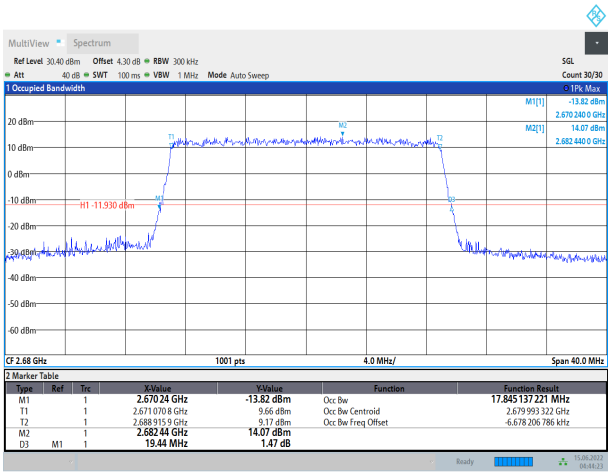
## Band41-20MHz-16QAM-41490-100RB#0

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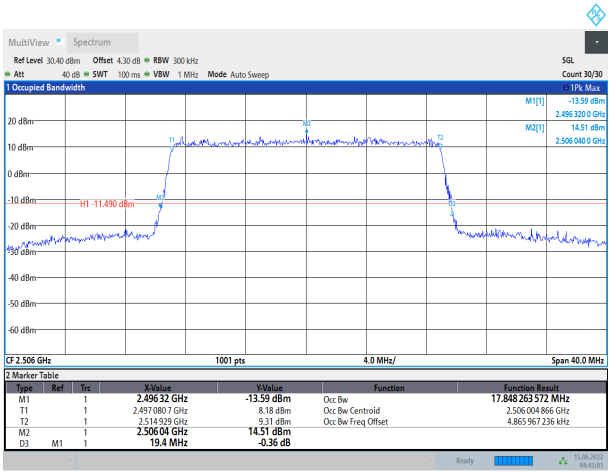


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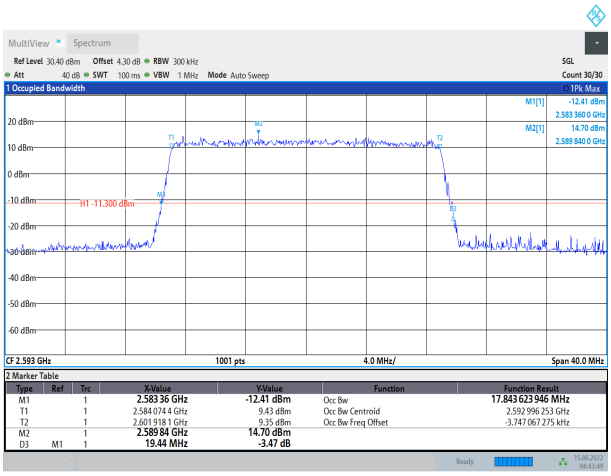
## Band41-20MHz-64QAM-40620-100RB#0

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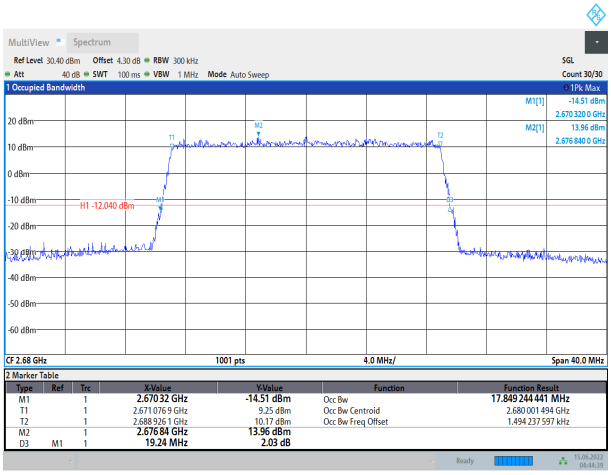


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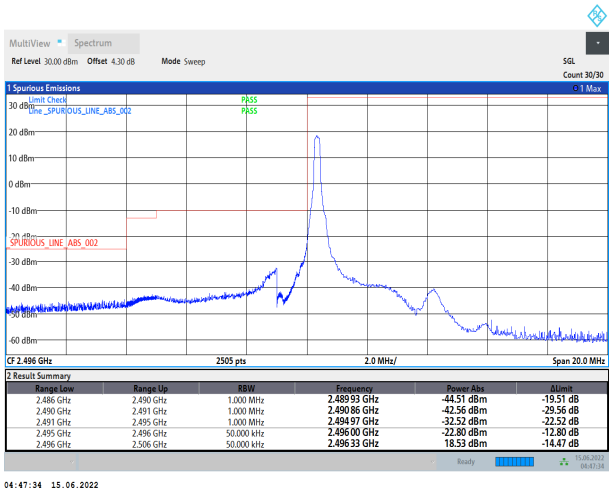
# Band Edge

## Test Graphs

Band41-5MHz-QPSK-39675-1RB#0

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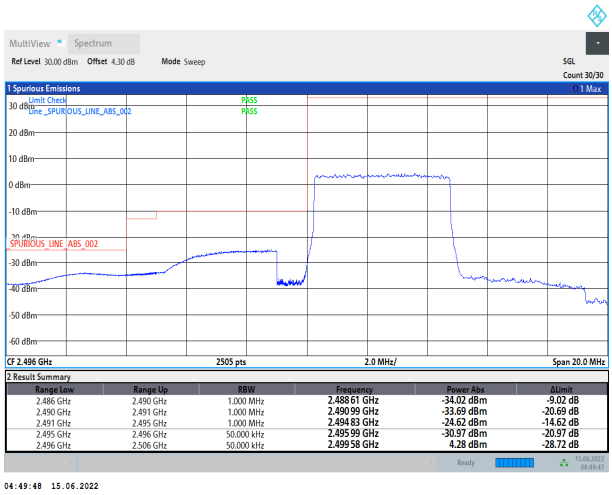


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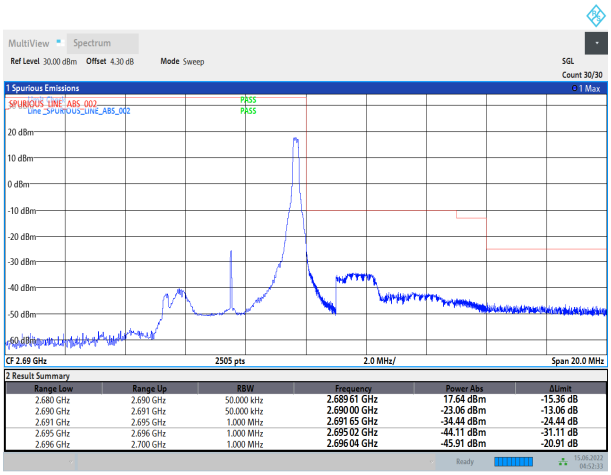
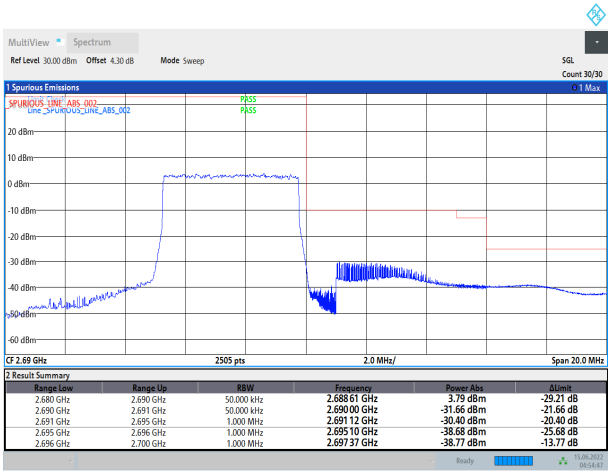



| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.680 GHz | 2.690 GHz | 50.000 kHz | 2.689 61 GHz | 17.64 dBm | -15.36 dB |
| 2.690 GHz | 2.691 GHz | 50.000 kHz | 2.690 00 GHz | -23.06 dBm | -13.06 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.691 65 GHz | -34.44 dBm | -24.44 dB |
| 2.695 GHz | 2.696 GHz | 1.000 MHz | 2.695 02 GHz | -44.11 dBm | -31.11 dB |
| 2.696 GHz | 2.700 GHz | 1.000 MHz | 2.696 04 GHz | -45.91 dBm | -20.91 dB |

04:52:33 15.06.2022

## Band41-5MHz-QPSK-41565-25RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.680 GHz | 2.690 GHz | 50.000 kHz | 2.688 61 GHz | 3.79 dBm | -29.21 dB |
| 2.690 GHz | 2.691 GHz | 50.000 kHz | 2.690 00 GHz | -31.66 dBm | -21.66 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.691 12 GHz | -30.40 dBm | -20.40 dB |
| 2.695 GHz | 2.696 GHz | 1.000 MHz | 2.695 10 GHz | -38.68 dBm | -25.68 dB |
| 2.696 GHz | 2.700 GHz | 1.000 MHz | 2.697 37 GHz | -38.77 dBm | -13.77 dB |

04:54:48 15.06.2022

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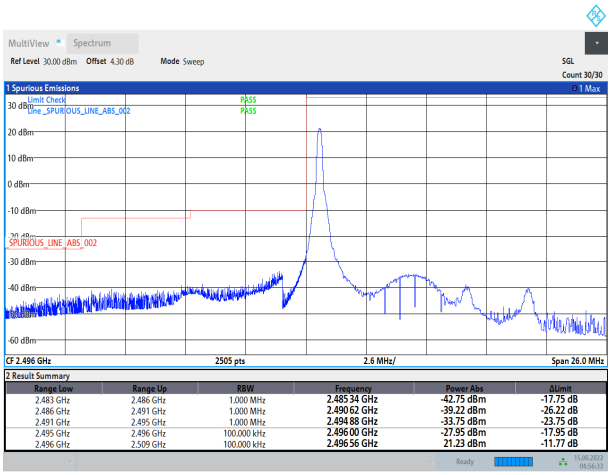
## Band41-10MHz-QPSK-39700-1RB#0

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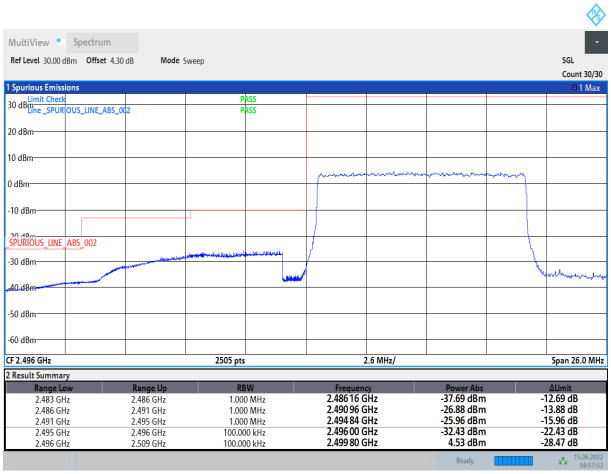


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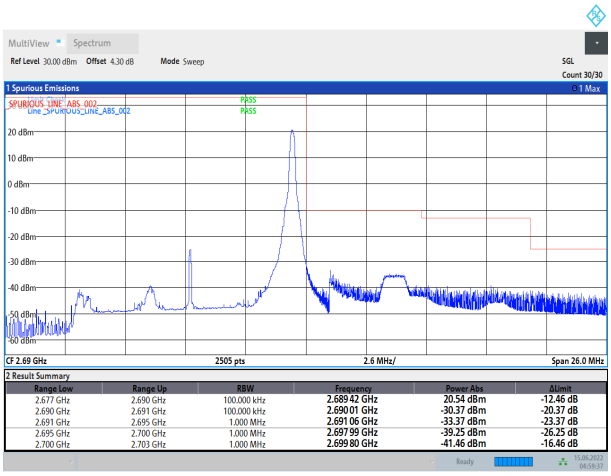
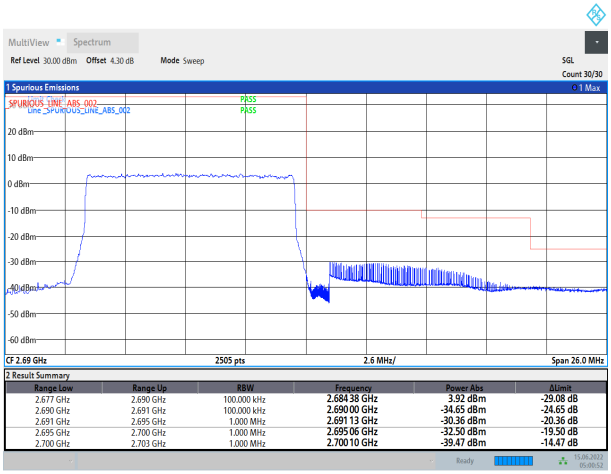
## Band41-10MHz-QPSK-41540-1RB#49




04:59:38 15.06.2022

## Band41-10MHz-QPSK-41540-50RB#0




05:00:53 15.06.2022

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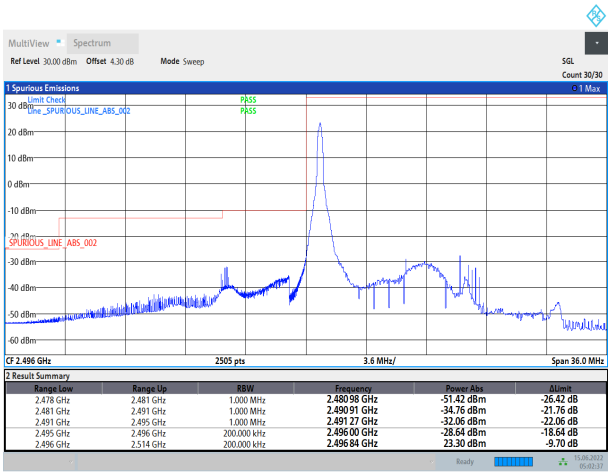
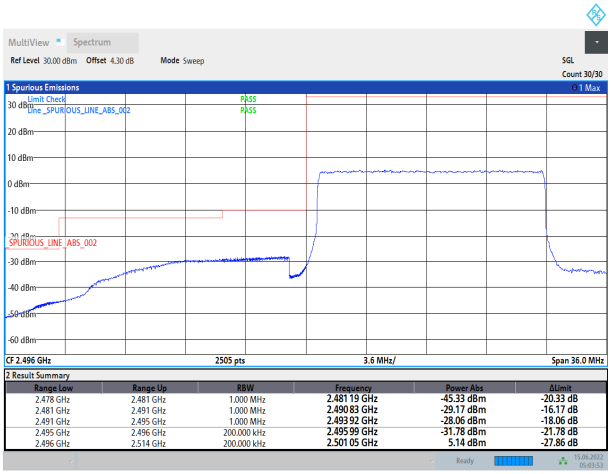
## Band41-15MHz-QPSK-39725-1RB#0




05:02:38 15.06.2022

## Band41-15MHz-QPSK-39725-75RB#0




05:03:53 15.06.2022

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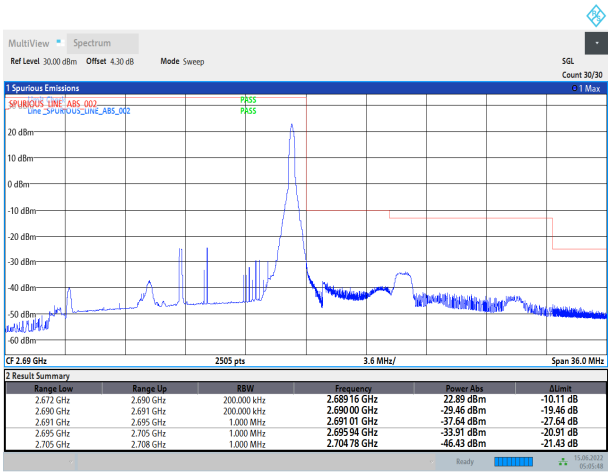
## Band41-15MHz-QPSK-41515-1RB#74




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.672 GHz | 2.690 GHz | 200.000 kHz | 2.689 16 GHz | 22.89 dBm | -10.11 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.690 00 GHz | -29.46 dBm | -19.46 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.691 01 GHz | -37.64 dBm | -27.64 dB |
| 2.695 GHz | 2.705 GHz | 1.000 MHz | 2.695 94 GHz | -33.91 dBm | -20.91 dB |
| 2.705 GHz | 2.708 GHz | 1.000 MHz | 2.704 78 GHz | -46.43 dBm | -21.43 dB |

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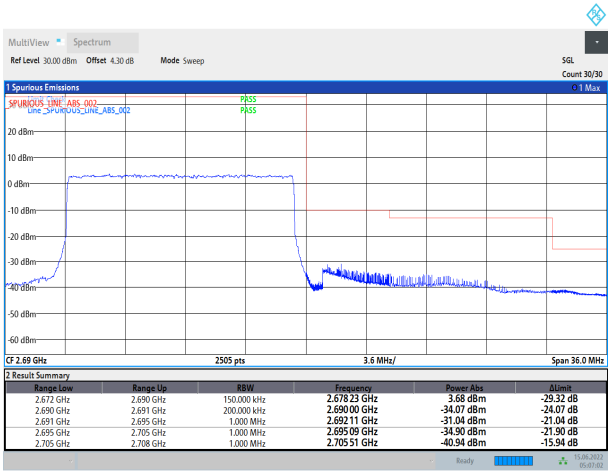
## Band41-15MHz-QPSK-41515-75RB#0




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.672 GHz | 2.690 GHz | 150.000 kHz | 2.678 23 GHz | 3.68 dBm | -29.32 dB |
| 2.690 GHz | 2.691 GHz | 200.000 kHz | 2.690 00 GHz | -34.07 dBm | -24.07 dB |
| 2.691 GHz | 2.695 GHz | 1.000 MHz | 2.692 11 GHz | -31.04 dBm | -21.04 dB |
| 2.695 GHz | 2.705 GHz | 1.000 MHz | 2.695 09 GHz | -34.90 dBm | -21.90 dB |
| 2.705 GHz | 2.708 GHz | 1.000 MHz | 2.705 51 GHz | -40.94 dBm | -15.94 dB |

05:07:03 15.06.2022

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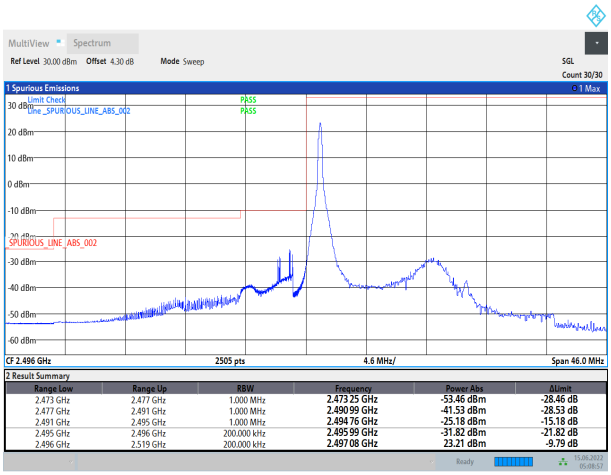
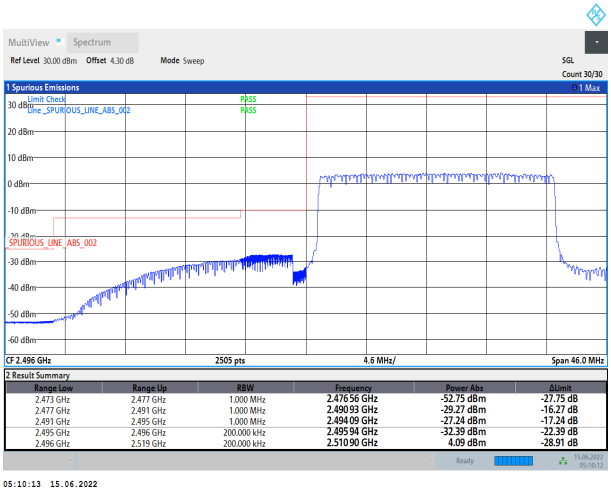
## Band41-20MHz-QPSK-39750-1RB#0




## Band41-20MHz-QPSK-39750-100RB#0

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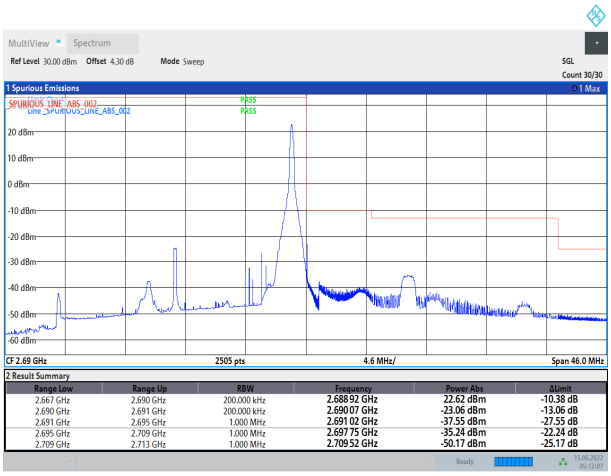
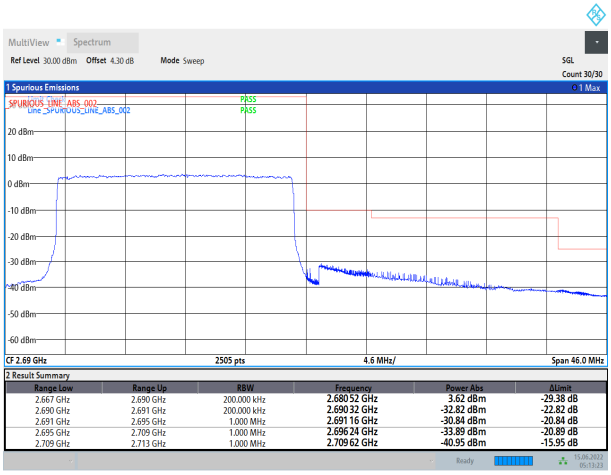
## Band41-20MHz-QPSK-41490-1RB#99




05:12:08 15.06.2022

## Band41-20MHz-QPSK-41490-100RB#0

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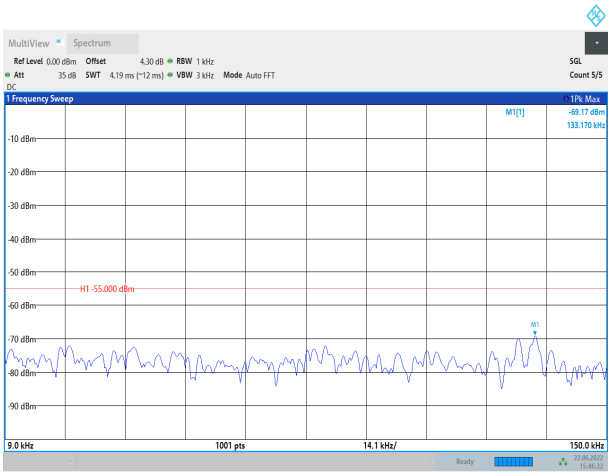
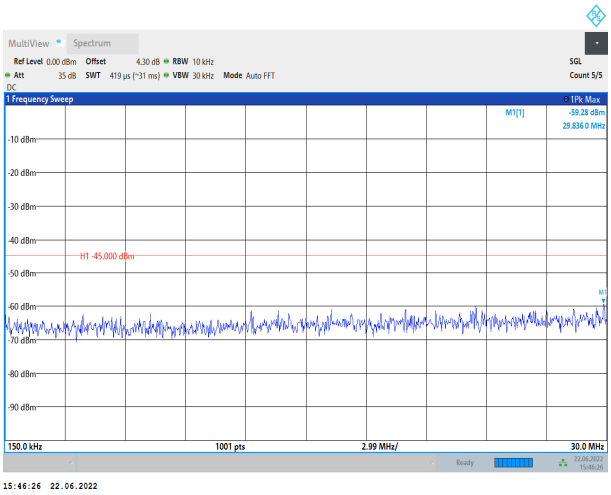
# Conducted Spurious Emission

## Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz




Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz

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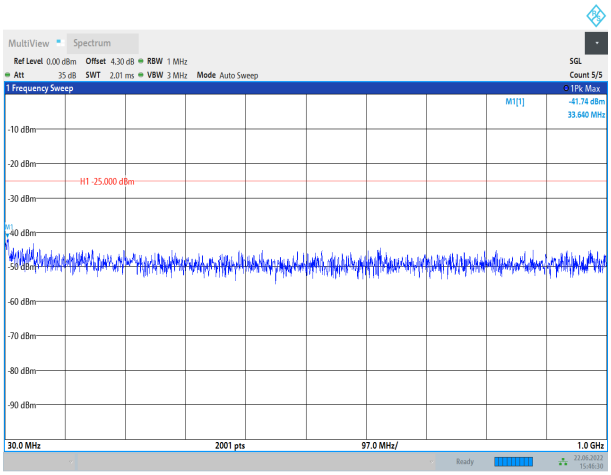
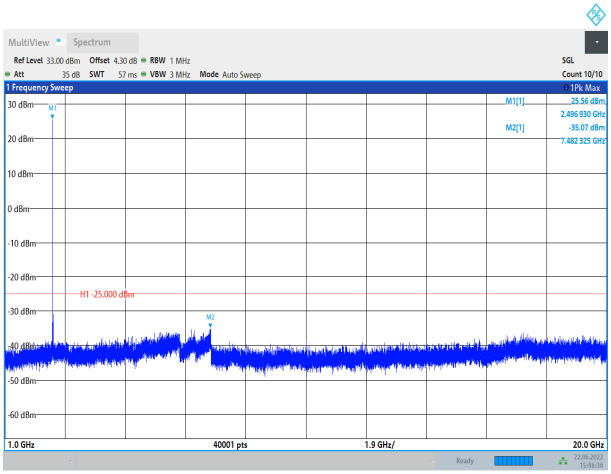
Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz




Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz

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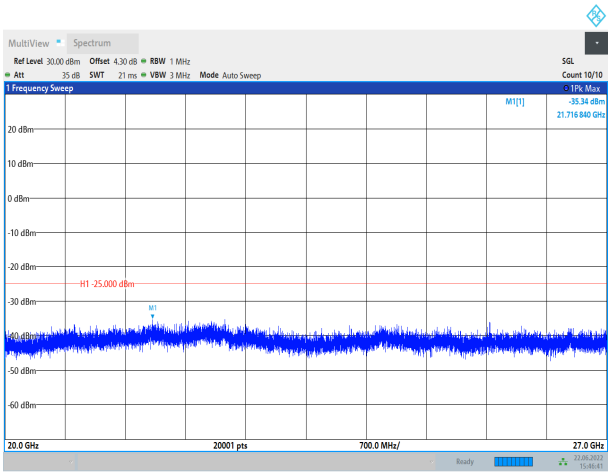
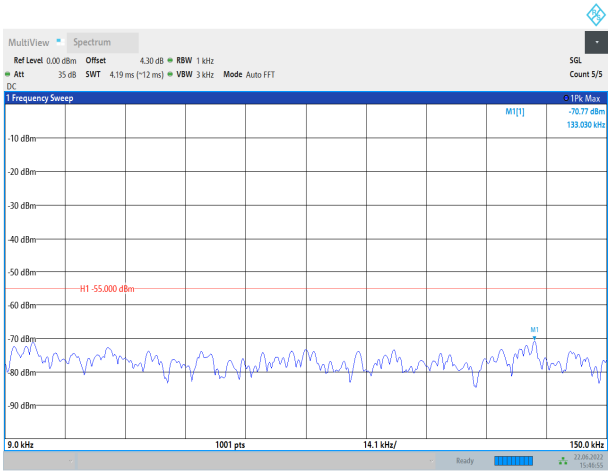
Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz




15:46:41 22.06.2022

Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz




15:46:55 22.06.2022

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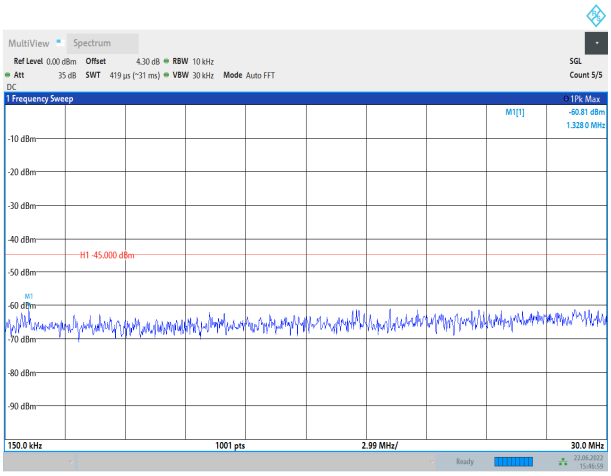
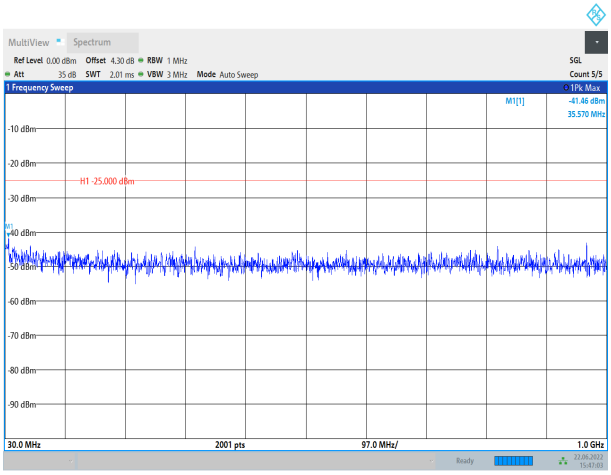
Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz




Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz

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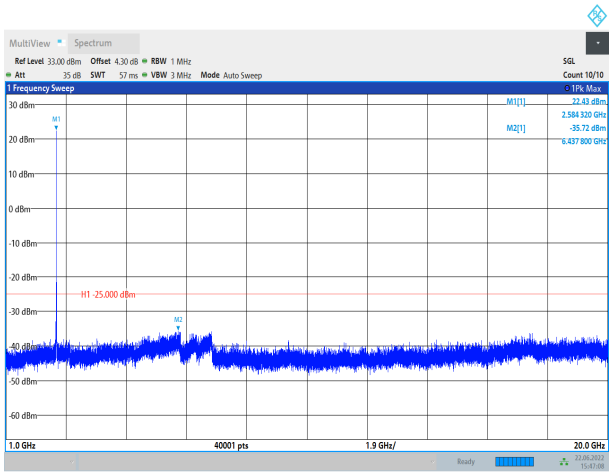
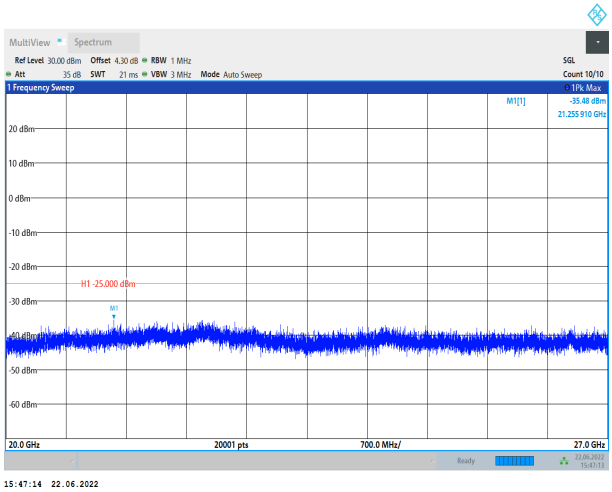
Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz




Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz

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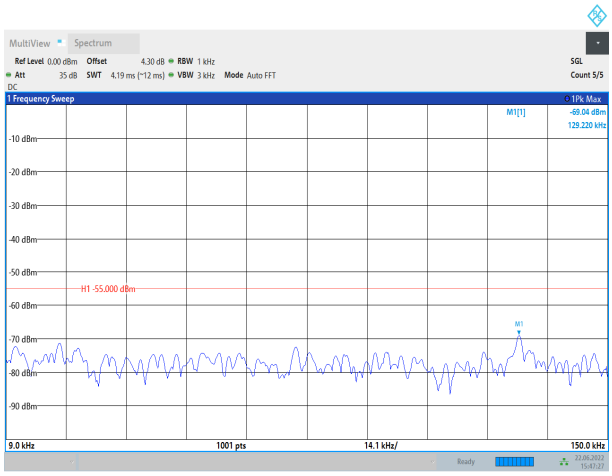
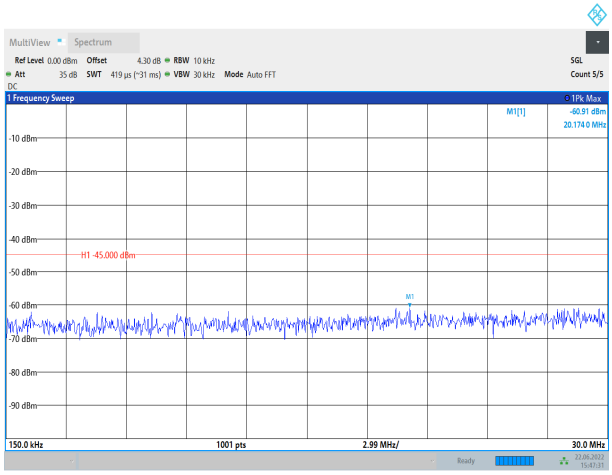
Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz




15:47:28 22.06.2022

Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz




15:47:32 22.06.2022

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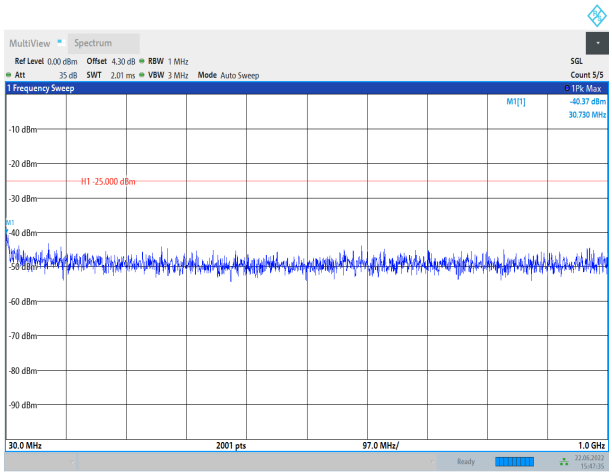
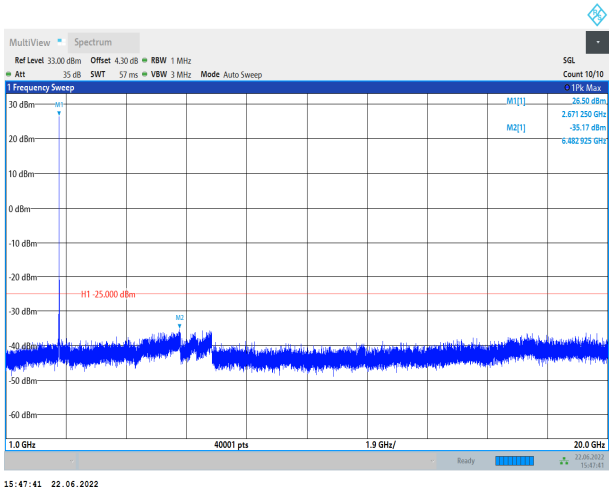
Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz




Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz

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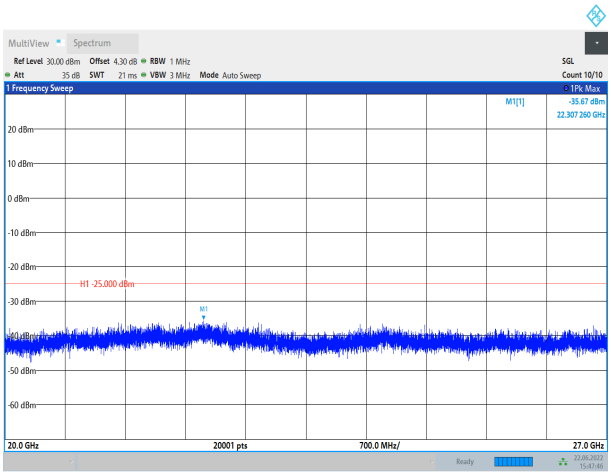
Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz




15:47:47 22.06.2022

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## Field Strength of Spurious Radiation

**Test Band = LTE Band 41_ TM1**
**Test Channel = Low**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4994.1800 | 49.34 | -108.03 | -58.69 | -25.00 | 33.69 | 261 | 179 | Horizontal |
| 2 | 7491.2700 | 46.60 | -101.98 | -55.38 | -25.00 | 30.38 | 273 | 194 | Horizontal |
| 3 | 9988.3600 | 42.22 | -96.04 | -53.82 | -25.00 | 28.82 | 249 | 135 | Horizontal |
| 4 | 12485.4500 | 37.78 | -93.14 | -55.36 | -25.00 | 30.36 | 153 | 256 | Horizontal |
| 5 | 14982.5400 | 35.72 | -90.64 | -54.92 | -25.00 | 29.92 | 175 | 358 | Horizontal |
| 6 | 17479.6300 | 39.50 | -91.23 | -51.73 | -25.00 | 26.73 | 173 | 44 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4994.1800 | 49.32 | -108.03 | -58.71 | -25.00 | 33.71 | 291 | 166 | Vertical |
| 2 | 7491.2700 | 46.97 | -101.98 | -55.01 | -25.00 | 30.01 | 167 | 344 | Vertical |
| 3 | 9988.3600 | 43.57 | -96.04 | -52.47 | -25.00 | 27.47 | 134 | 273 | Vertical |
| 4 | 12485.4500 | 39.16 | -93.14 | -53.98 | -25.00 | 28.98 | 183 | 256 | Vertical |
| 5 | 14982.5400 | 36.42 | -90.64 | -54.22 | -25.00 | 29.22 | 234 | 360 | Vertical |
| 6 | 17479.6300 | 39.29 | -91.23 | -51.94 | -25.00 | 26.94 | 291 | 90 | Vertical |

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**Test Band = LTE Band 41_ TM1**
**Test Channel = Mid**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4472.25 | 53.44 | -109.42 | -55.98 | -25.00 | 30.98 | 264 | 344 | Horizontal |
| 2 | 5168.1800 | 50.79 | -107.60 | -56.81 | -25.00 | 31.81 | 192 | 358 | Horizontal |
| 3 | 7752.2700 | 47.85 | -101.26 | -53.41 | -25.00 | 28.41 | 234 | 90 | Horizontal |
| 4 | 10336.3600 | 42.22 | -95.48 | -53.26 | -25.00 | 28.26 | 276 | 210 | Horizontal |
| 5 | 12920.4500 | 39.16 | -92.67 | -53.51 | -25.00 | 28.51 | 294 | 225 | Horizontal |
| 6 | 15504.5400 | 37.30 | -92.04 | -54.74 | -25.00 | 29.74 | 137 | 196 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4990.5 | 51.59 | -108.04 | -56.45 | -25.00 | 31.45 | 267 | 360 | Vertical |
| 2 | 5168.1800 | 49.60 | -107.60 | -58.00 | -25.00 | 33.00 | 264 | 88 | Vertical |
| 3 | 7752.2700 | 47.51 | -101.26 | -53.75 | -25.00 | 28.75 | 273 | 314 | Vertical |
| 4 | 10336.3600 | 44.30 | -95.48 | -51.18 | -25.00 | 26.18 | 291 | 134 | Vertical |
| 5 | 12920.4500 | 39.37 | -92.67 | -53.30 | -25.00 | 28.30 | 167 | 240 | Vertical |
| 6 | 15504.5400 | 37.07 | -92.04 | -54.97 | -25.00 | 29.97 | 134 | 103 | Vertical |

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**Test Band = LTE Band 41_ TM1**
**Test Channel = High**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4870.5 | 52.05 | -108.28 | -56.23 | -25.00 | 31.23 | 164 | 254 | Horizontal |
| 2 | 5342.1800 | 48.07 | -107.58 | -59.51 | -25.00 | 34.51 | 134 | 121 | Horizontal |
| 3 | 8013.2700 | 46.15 | -100.46 | -54.31 | -25.00 | 29.31 | 152 | 359 | Horizontal |
| 4 | 10684.3600 | 44.91 | -94.10 | -49.19 | -25.00 | 24.19 | 193 | 270 | Horizontal |
| 5 | 13355.4500 | 39.80 | -91.72 | -51.92 | -25.00 | 26.92 | 246 | 242 | Horizontal |
| 6 | 16026.5400 | 38.91 | -92.29 | -53.38 | -25.00 | 28.38 | 273 | 256 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3978 | 53.21 | -110.60 | -57.39 | -25.00 | 32.39 | 134 | 44 | Vertical |
| 2 | 5342.1800 | 48.93 | -107.58 | -58.65 | -25.00 | 33.65 | 261 | 359 | Vertical |
| 3 | 8013.2700 | 47.89 | -100.46 | -52.57 | -25.00 | 27.57 | 164 | 330 | Vertical |
| 4 | 10684.3600 | 48.51 | -94.10 | -45.59 | -25.00 | 20.59 | 137 | 270 | Vertical |
| 5 | 13355.4500 | 38.31 | -91.72 | -53.41 | -25.00 | 28.41 | 183 | 344 | Vertical |
| 6 | 16026.5400 | 38.43 | -92.29 | -53.86 | -25.00 | 28.86 | 267 | 104 | Vertical |

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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## Frequency Stability

### Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VL | NT | -6.70 | -0.002584 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VN | NT | -6.80 | -0.002622 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VH | NT | -8.30 | -0.003201 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -30 | -8.10 | -0.003124 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -20 | -6.10 | -0.002352 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -10 | -0.30 | -0.000116 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 0 | -9.40 | -0.003625 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 10 | -2.40 | -0.000926 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 20 | -10.50 | -0.004049 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 30 | -1.30 | -0.000501 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 40 | -3.60 | -0.001388 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 50 | -3.90 | -0.001504 | PASS |

The End

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