



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 | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band41 | 5MHz | QPSK | 39675 | 1RB#0 | 22.72 | 25.72 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#12 | 23.28 | 26.28 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#24 | 22.90 | 25.90 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#0 | 21.88 | 24.88 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#6 | 22.02 | 25.02 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#13 | 21.96 | 24.96 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 21.94 | 24.94 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#0 | 22.98 | 25.98 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#12 | 23.35 | 26.35 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#24 | 23.00 | 26.00 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#0 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#6 | 22.01 | 25.01 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#13 | 21.94 | 24.94 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 22.04 | 25.04 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#0 | 22.79 | 25.79 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#12 | 23.06 | 26.06 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#24 | 22.75 | 25.75 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#0 | 22.00 | 25.00 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#6 | 21.95 | 24.95 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#13 | 21.88 | 24.88 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 21.95 | 24.95 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#0 | 21.34 | 24.34 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#12 | 21.50 | 24.50 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#24 | 21.32 | 24.32 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#0 | 20.65 | 23.65 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#6 | 20.83 | 23.83 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#13 | 20.66 | 23.66 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 21.53 | 24.53 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#0 | 21.34 | 24.34 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#12 | 21.51 | 24.51 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#24 | 21.38 | 24.38 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#0 | 20.72 | 23.72 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 5MHz | 16QAM | 40620 | 12RB#6 | 20.66 | 23.66 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#13 | 20.65 | 23.65 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 21.80 | 24.80 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#0 | 21.27 | 24.27 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#12 | 21.26 | 24.26 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#24 | 21.15 | 24.15 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#0 | 20.64 | 23.64 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#6 | 20.72 | 23.72 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#13 | 20.53 | 23.53 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 21.73 | 24.73 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#0 | 22.97 | 25.97 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#24 | 23.47 | 26.47 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#49 | 22.89 | 25.89 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#0 | 21.97 | 24.97 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#12 | 22.12 | 25.12 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#25 | 21.89 | 24.89 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 21.92 | 24.92 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#0 | 23.01 | 26.01 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#24 | 23.38 | 26.38 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#49 | 22.73 | 25.73 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#0 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#12 | 22.14 | 25.14 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#25 | 21.98 | 24.98 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 22.05 | 25.05 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#0 | 22.97 | 25.97 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#24 | 23.30 | 26.30 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#49 | 22.74 | 25.74 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#0 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#12 | 21.98 | 24.98 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#25 | 21.84 | 24.84 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 22.02 | 25.02 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0 | 21.21 | 24.21 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 21.78 | 24.78 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 21.38 | 24.38 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 27RB#0 | 21.85 | 24.85 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0 | 21.50 | 24.50 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 21.72 | 24.72 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 21.33 | 24.33 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 10MHz | 16QAM | 40620 | 27RB#0 | 22.08 | 25.08 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0 | 21.45 | 24.45 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 21.50 | 24.50 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 21.22 | 24.22 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 27RB#0 | 21.99 | 24.99 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#0 | 22.83 | 25.83 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#38 | 23.14 | 26.14 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#74 | 22.65 | 25.65 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#0 | 21.97 | 24.97 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#18 | 21.99 | 24.99 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#39 | 21.89 | 24.89 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 22.54 | 25.54 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#0 | 22.96 | 25.96 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#38 | 23.22 | 26.22 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#74 | 22.72 | 25.72 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#0 | 22.06 | 25.06 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#18 | 22.17 | 25.17 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#39 | 21.97 | 24.97 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 22.41 | 25.41 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#0 | 22.86 | 25.86 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#38 | 23.16 | 26.16 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#74 | 22.69 | 25.69 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#0 | 22.14 | 25.14 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#18 | 22.00 | 25.00 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#39 | 21.87 | 24.87 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 22.71 | 25.71 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0 | 21.54 | 24.54 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38 | 21.49 | 24.49 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74 | 21.31 | 24.31 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 27RB#0 | 22.09 | 25.09 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0 | 21.58 | 24.58 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38 | 21.56 | 24.56 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74 | 21.21 | 24.21 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 27RB#0 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0 | 21.28 | 24.28 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38 | 21.32 | 24.32 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74 | 21.05 | 24.05 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 27RB#0 | 21.80 | 24.80 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 20MHz | QPSK | 39750 | 1RB#0 | 22.81 | 25.81 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#49 | 23.39 | 26.39 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#99 | 22.60 | 25.60 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#0 | 21.96 | 24.96 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#25 | 22.06 | 25.06 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#50 | 21.86 | 24.86 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 22.83 | 25.83 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#0 | 22.80 | 25.80 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#49 | 23.34 | 26.34 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#99 | 22.56 | 25.56 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#0 | 22.09 | 25.09 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#25 | 22.16 | 25.16 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#50 | 21.92 | 24.92 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 22.40 | 25.40 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#0 | 22.84 | 25.84 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#49 | 23.40 | 26.40 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#99 | 23.17 | 26.17 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#0 | 21.99 | 24.99 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#25 | 21.97 | 24.97 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#50 | 21.83 | 24.83 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 22.10 | 25.10 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0 | 22.03 | 25.03 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49 | 22.14 | 25.14 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99 | 22.02 | 25.02 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 21.97 | 24.97 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0 | 21.96 | 24.96 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49 | 22.11 | 25.11 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99 | 21.84 | 24.84 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 22.12 | 25.12 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0 | 21.88 | 24.88 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49 | 22.10 | 25.10 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99 | 22.16 | 25.16 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 21.92 | 24.92 | 33.00 | PASS |

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

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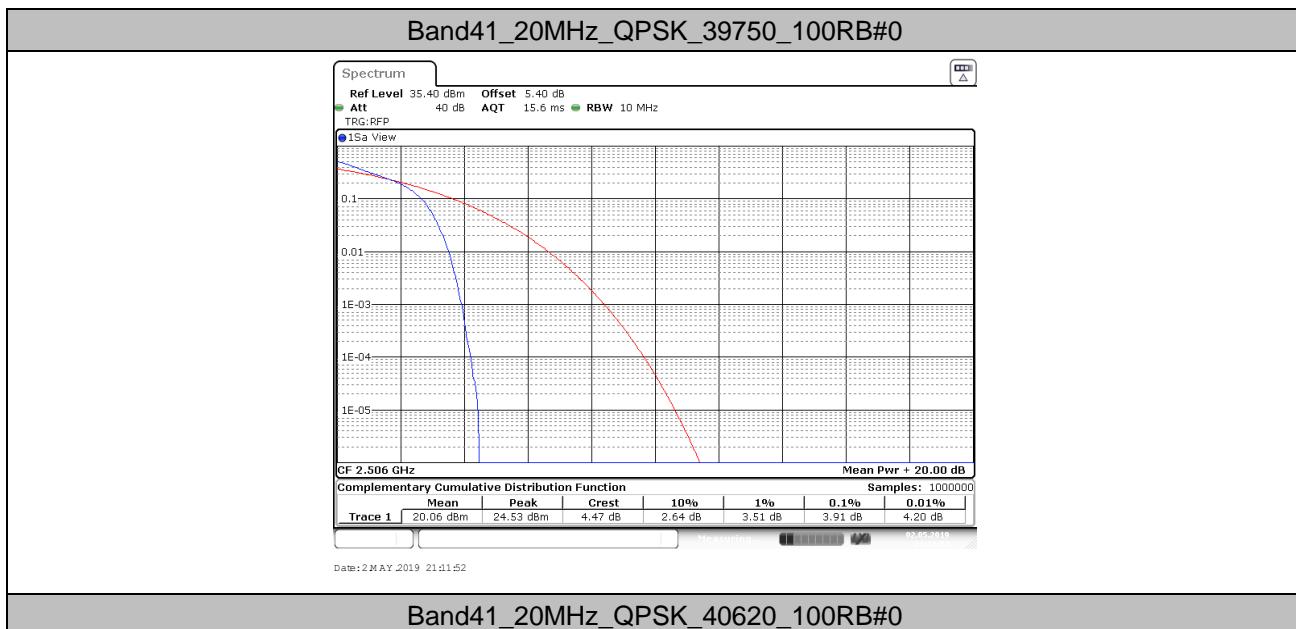
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 3.91 | 13 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 5.91 | 13 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 5.80 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 6.23 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 7.71 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 7.57 | 13 | PASS |

2.2. Test Plots



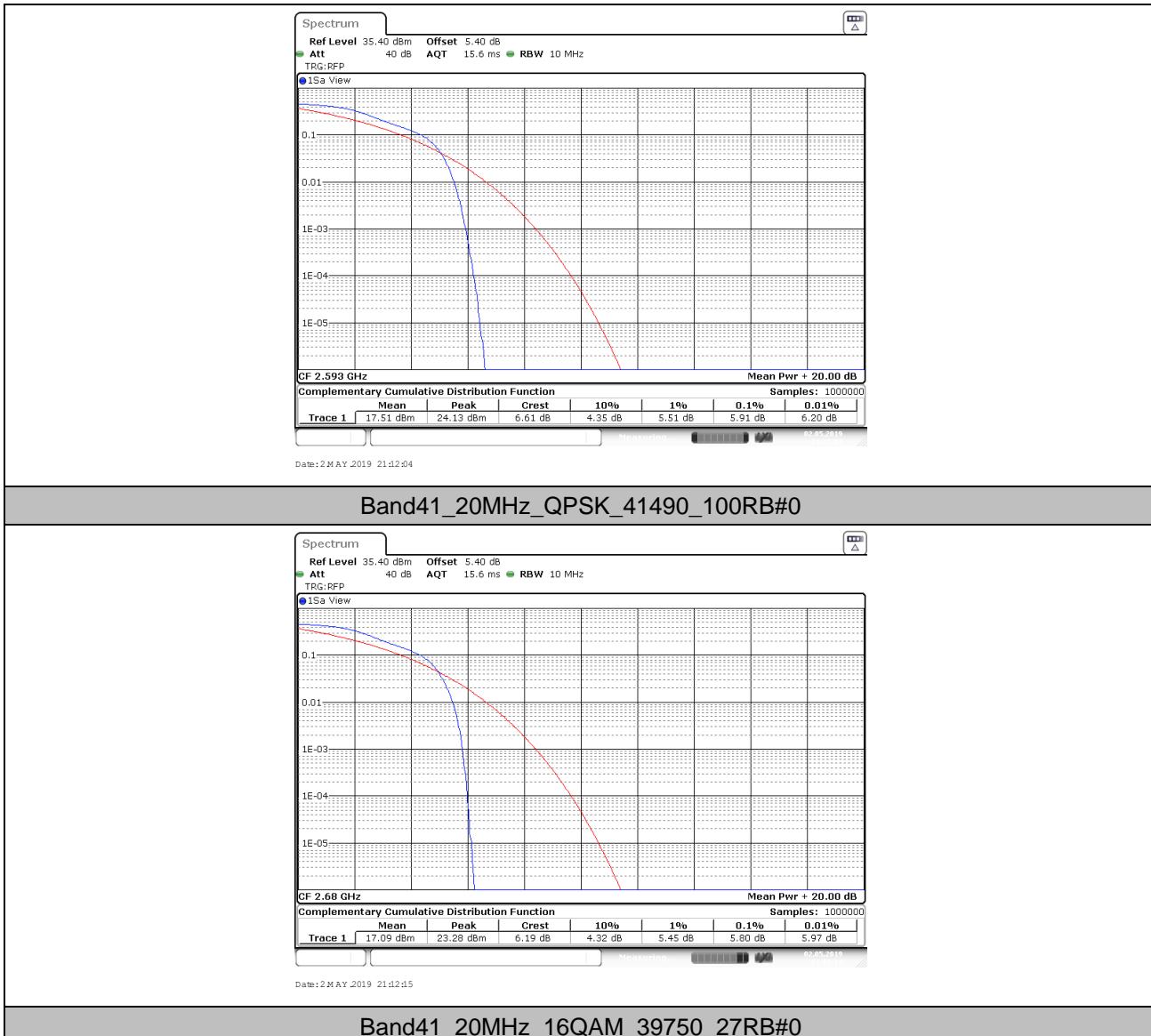
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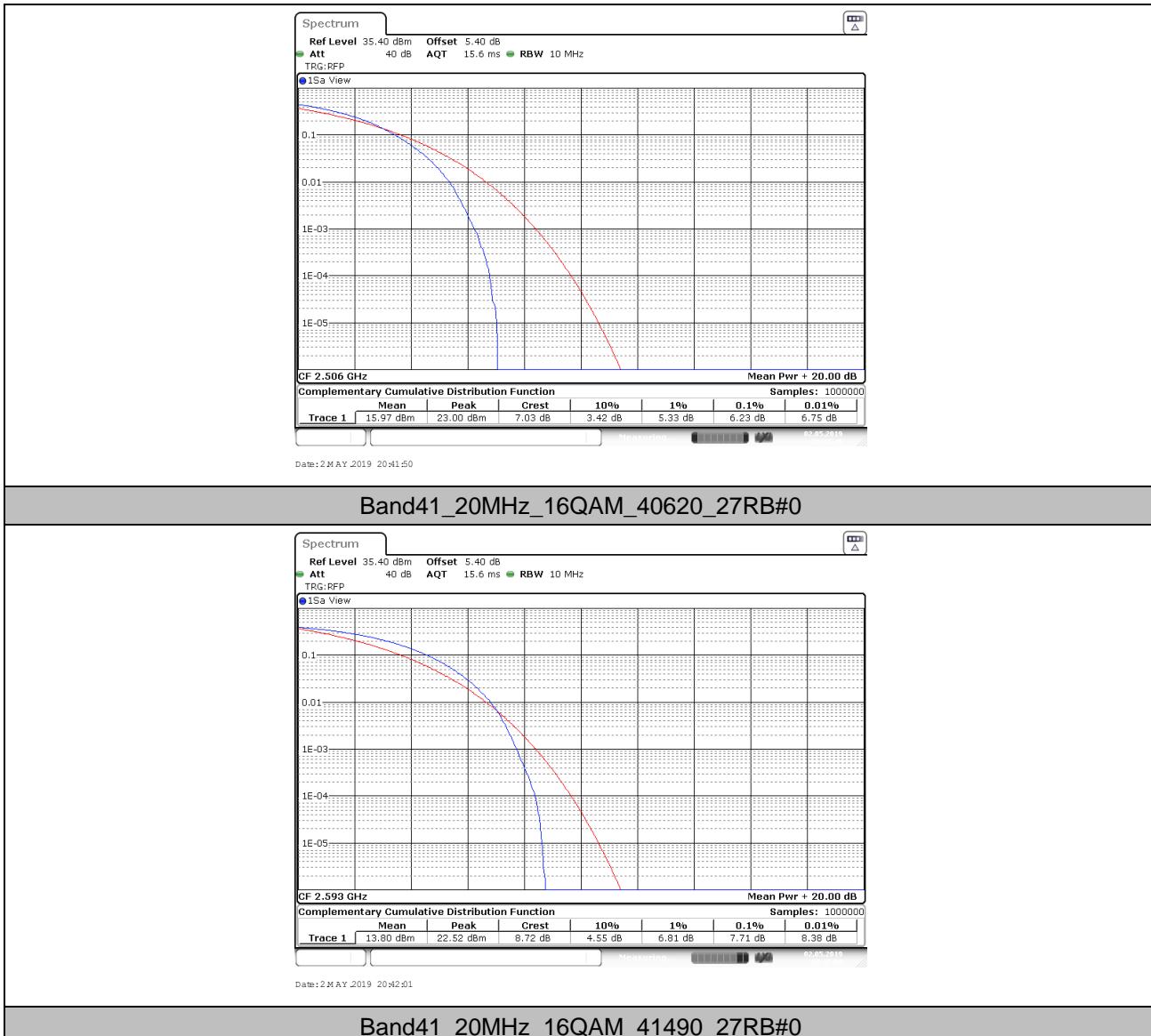
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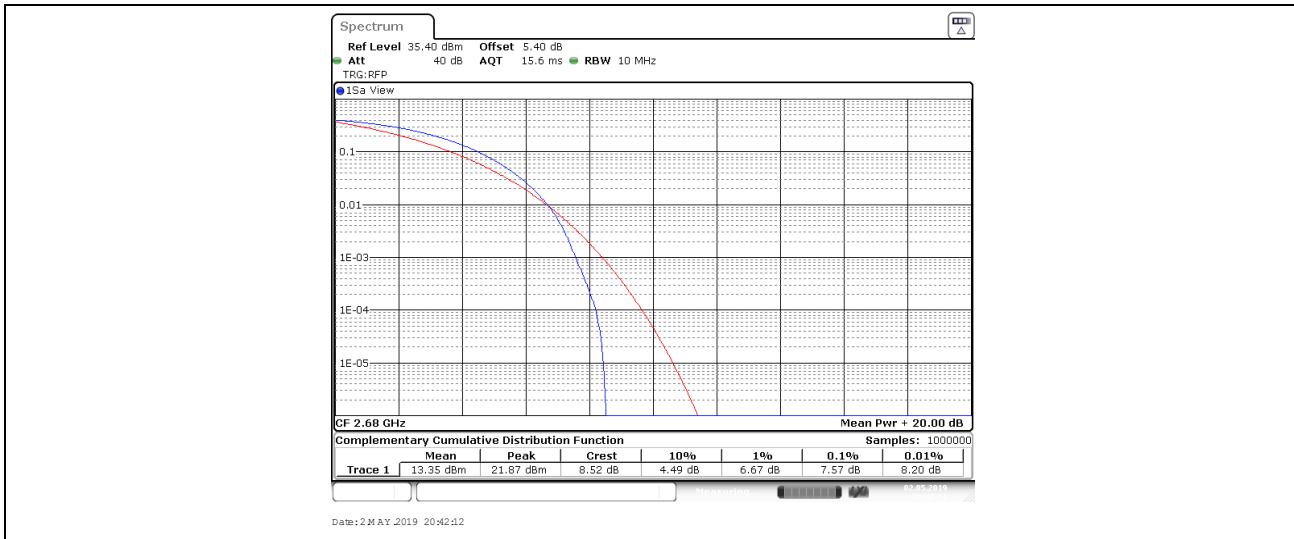
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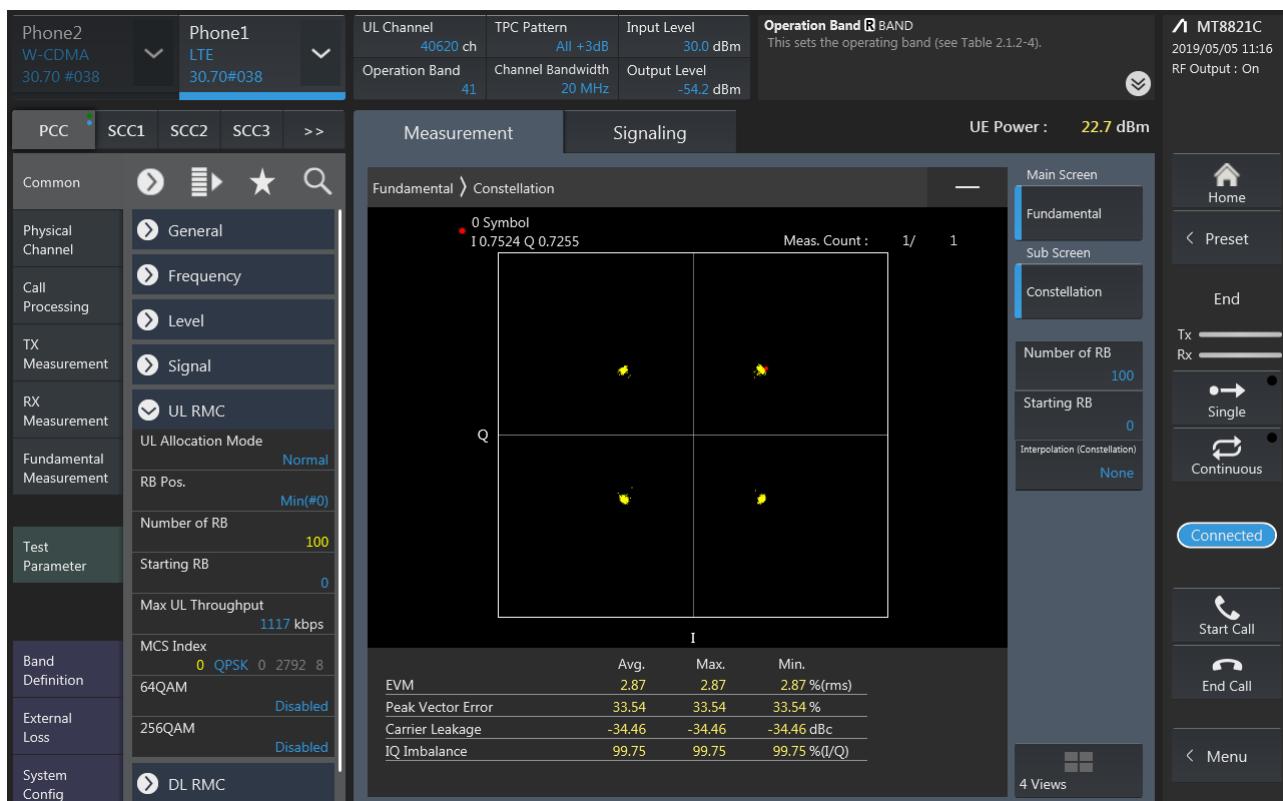
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 41

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



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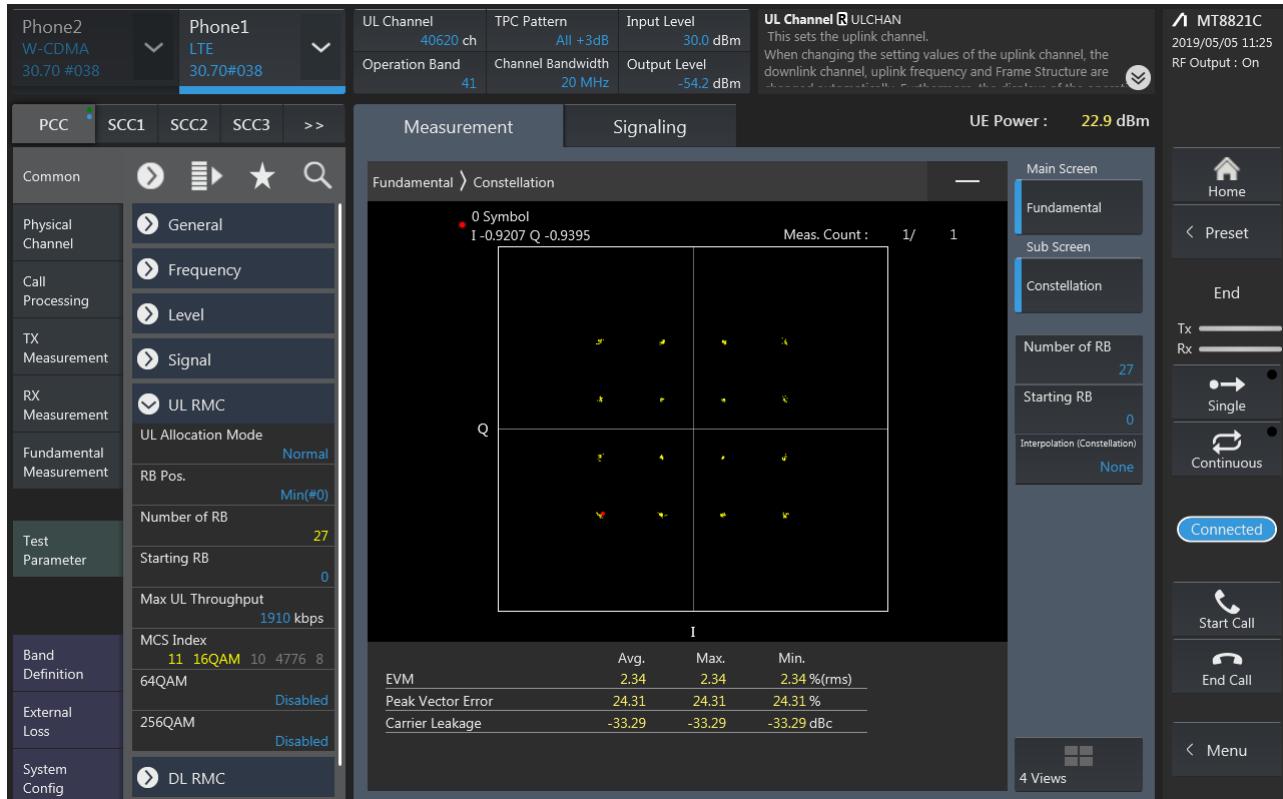
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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. 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 | 4.850 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 4.466 | 4.880 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 4.466 | 4.870 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 4.486 | 4.900 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 4.496 | 4.920 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 8.931 | 9.680 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 8.931 | 9.640 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 8.931 | 9.720 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 27RB#0 | 4.875 | 5.560 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 27RB#0 | 4.875 | 5.540 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 27RB#0 | 4.855 | 5.600 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 13.457 | 14.760 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 13.427 | 14.640 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 13.457 | 14.730 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 27RB#0 | 5.065 | 6.300 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 27RB#0 | 5.065 | 6.150 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 27RB#0 | 5.065 | 6.120 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 17.862 | 19.480 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 17.862 | 19.480 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 17.902 | 19.400 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 5.115 | 6.440 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 5.115 | 6.440 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 5.115 | 6.400 | PASS |

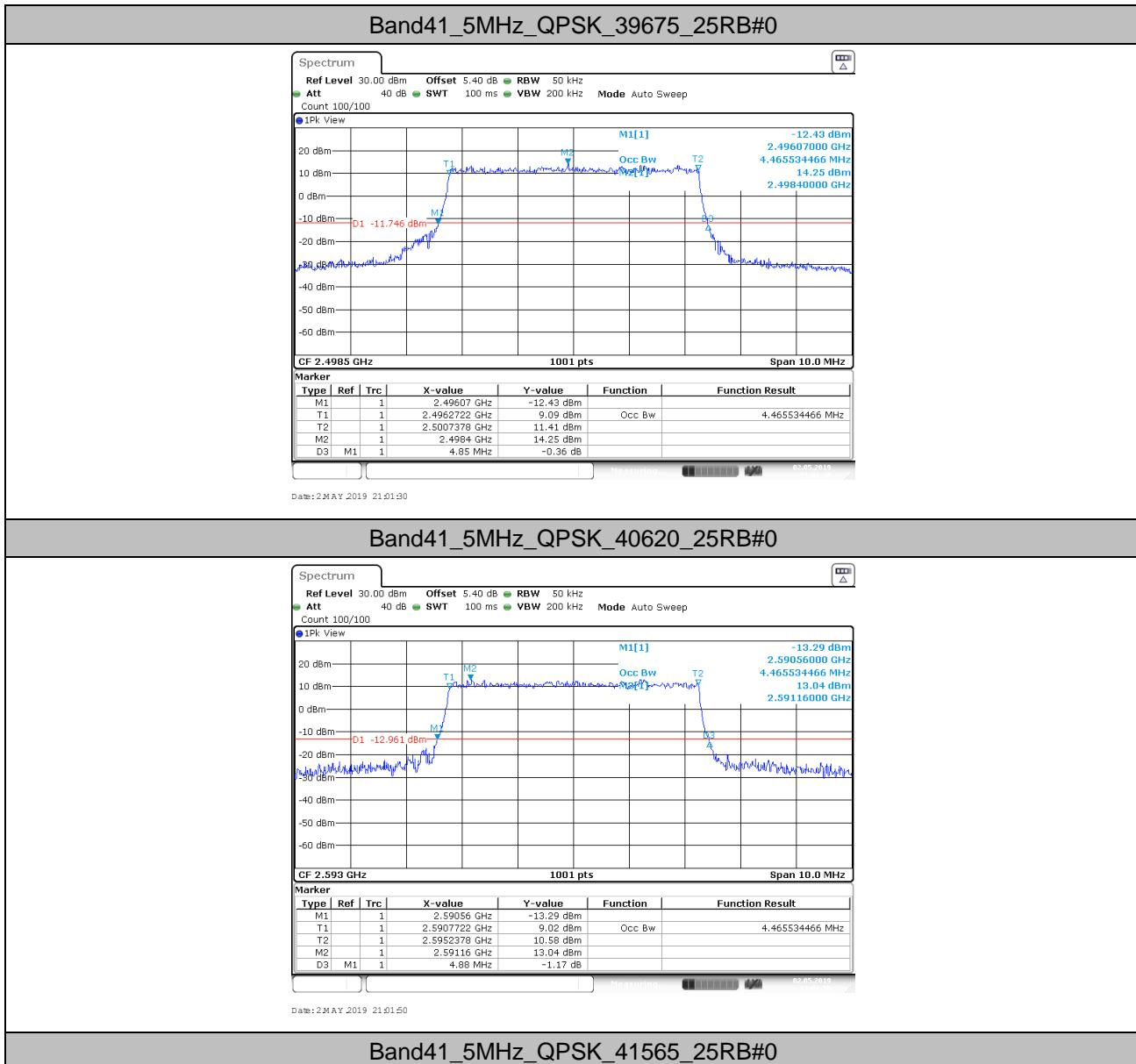
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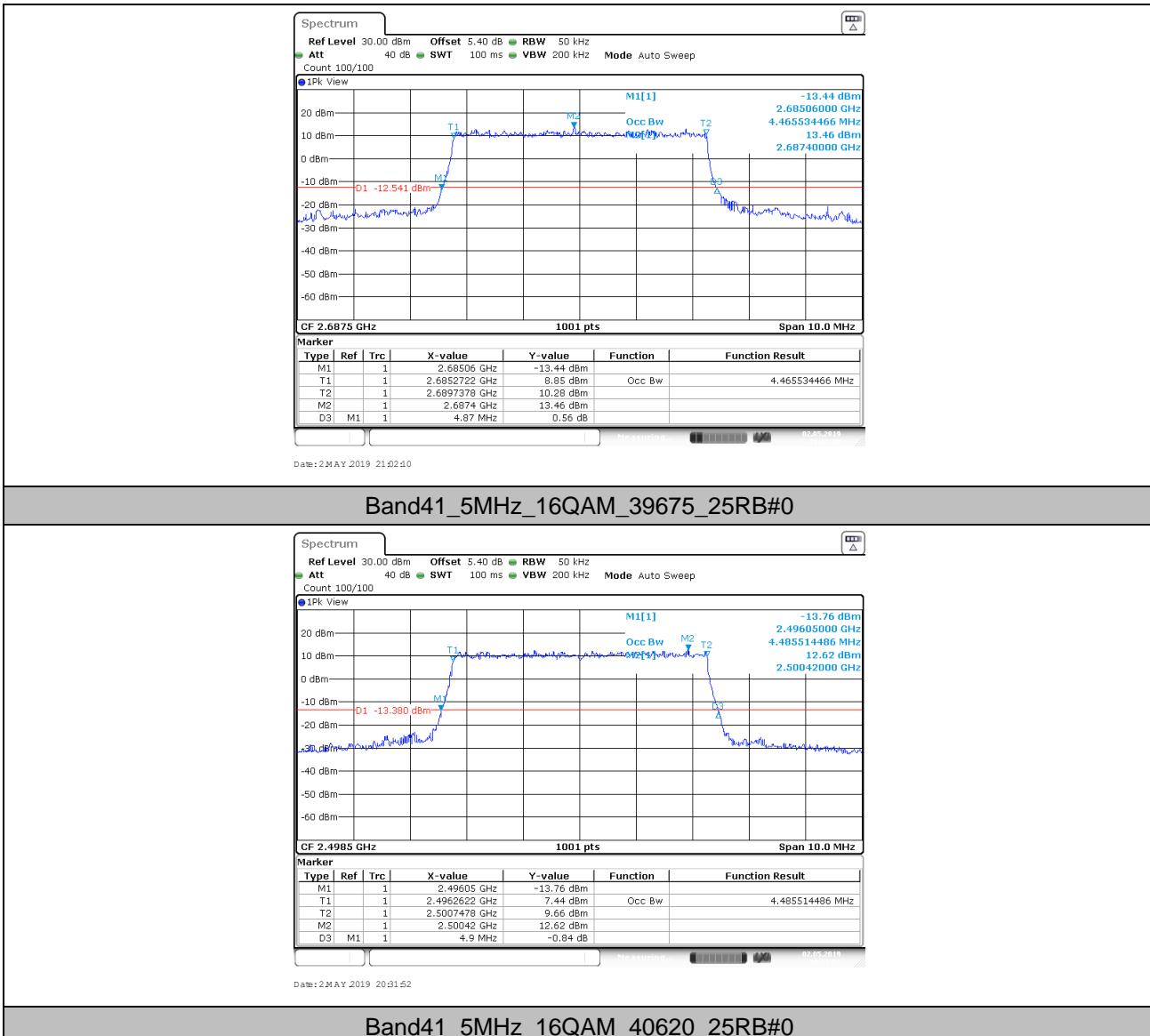
4.2. Test Plots



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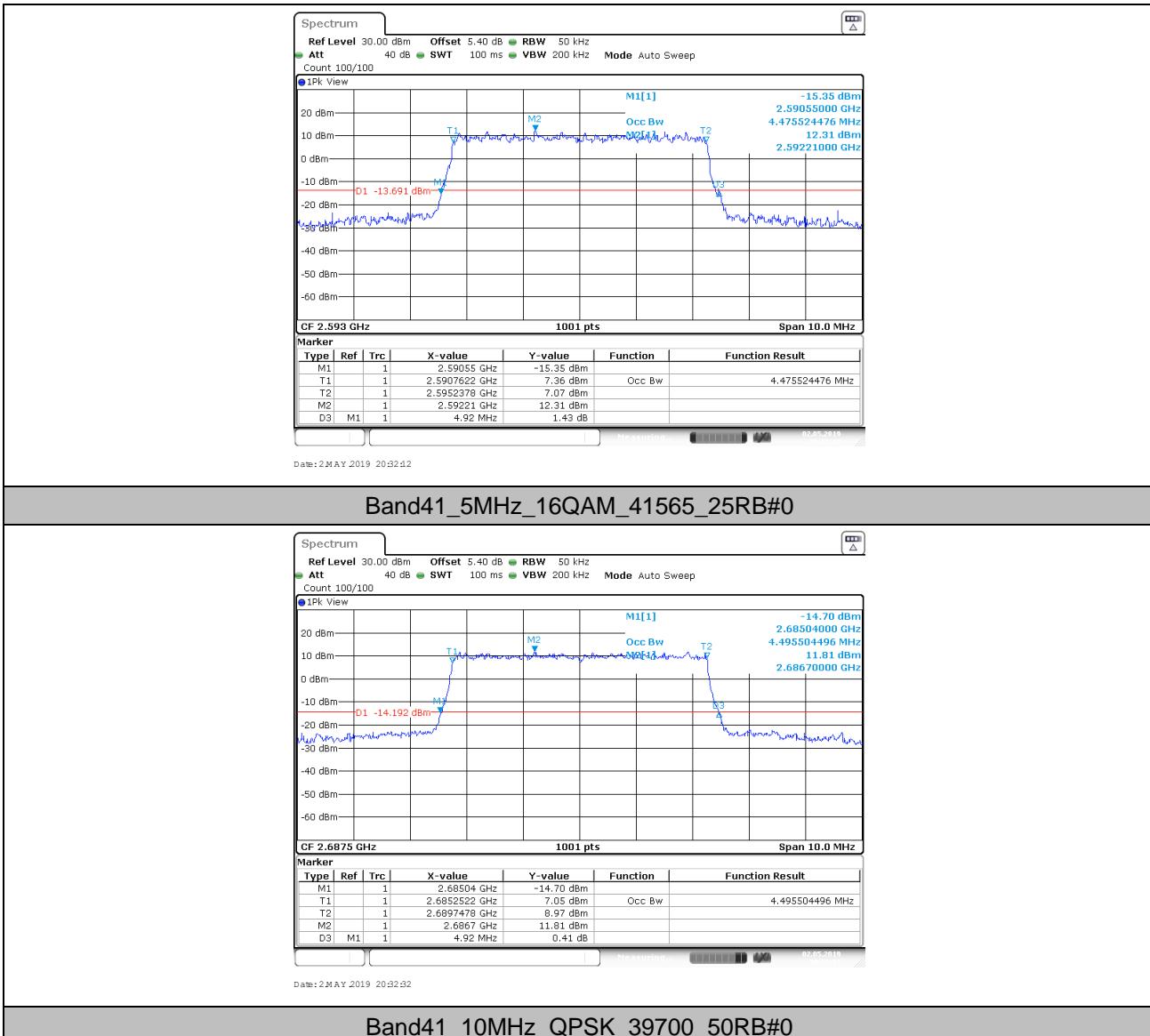


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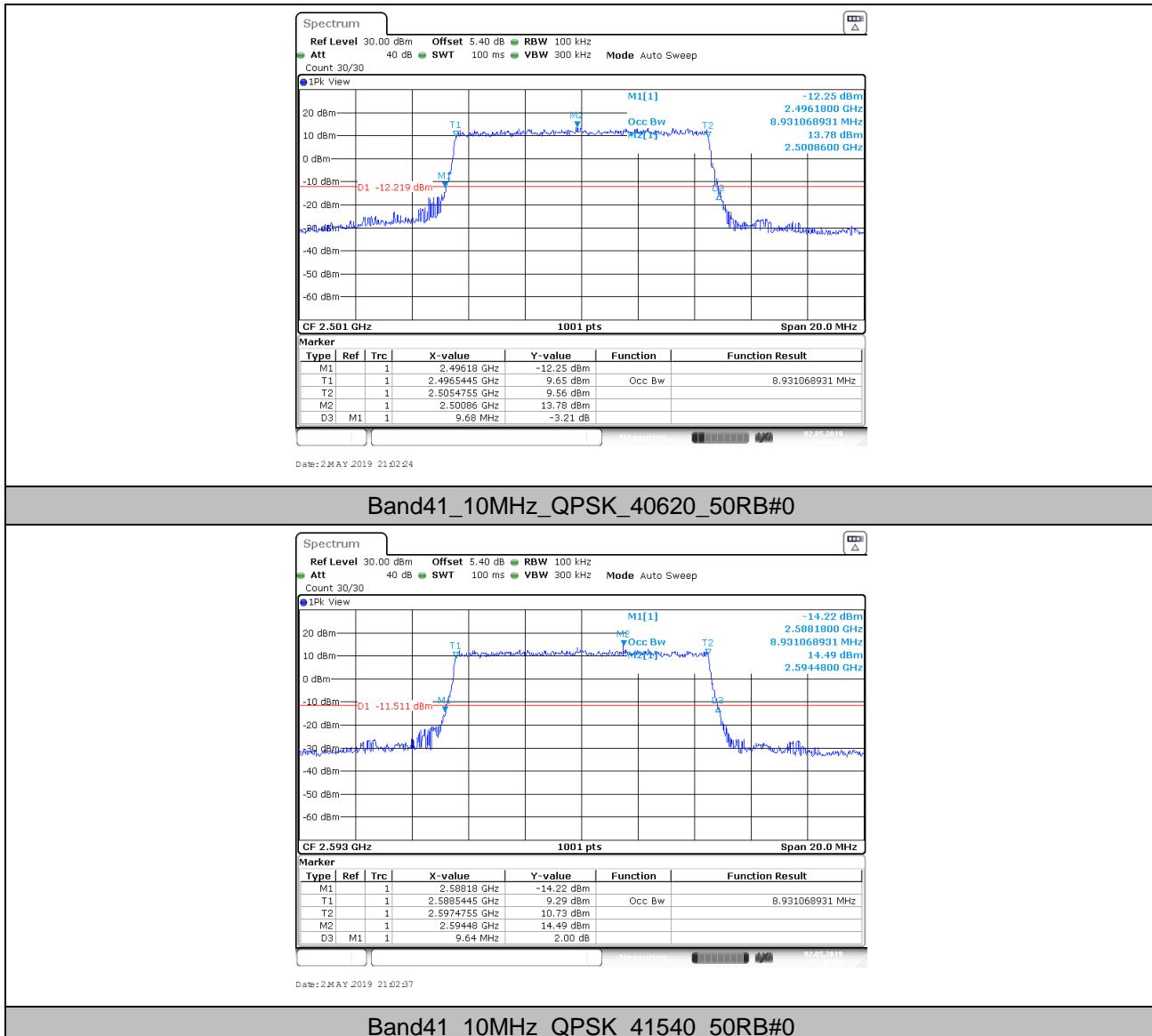


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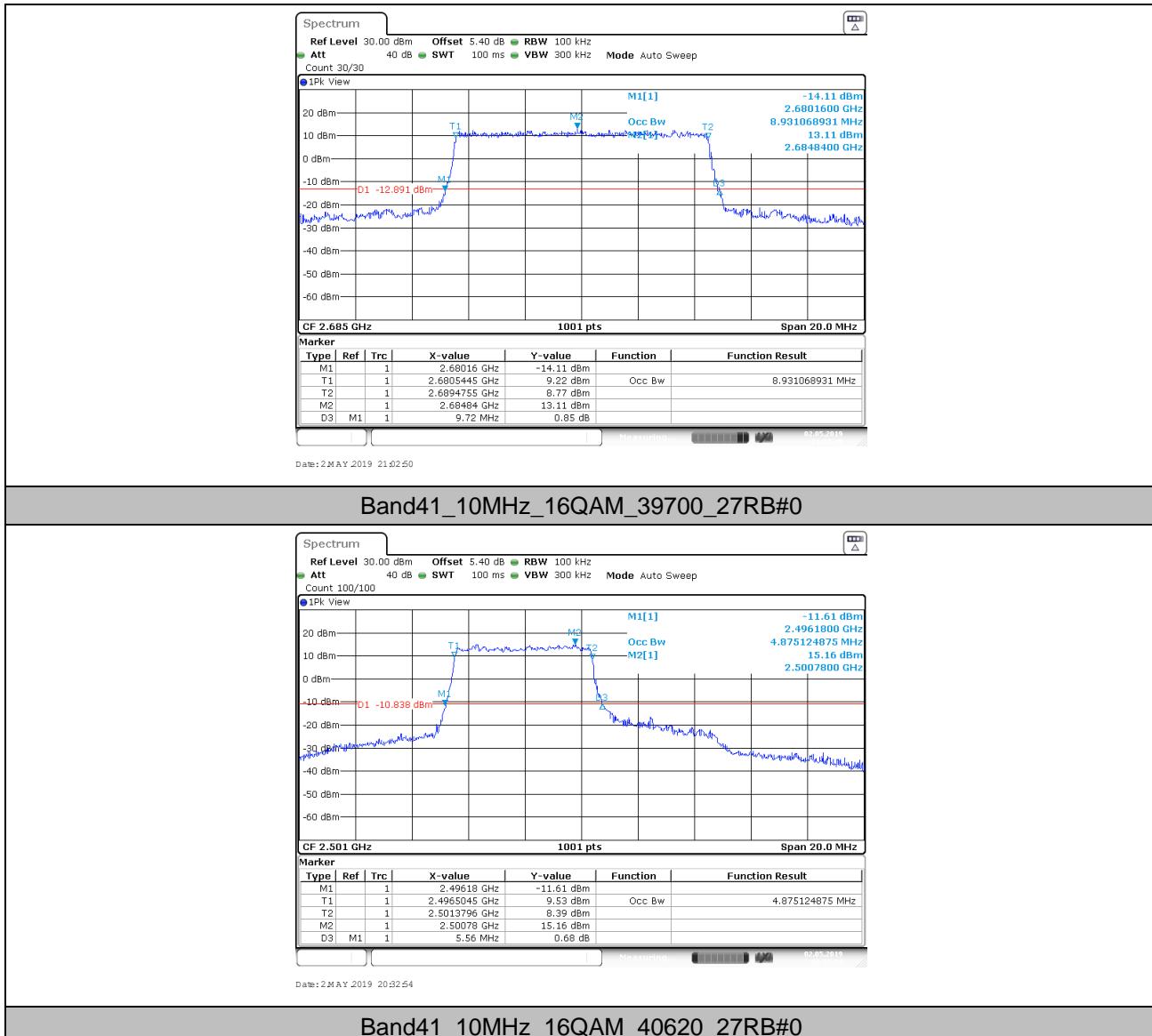


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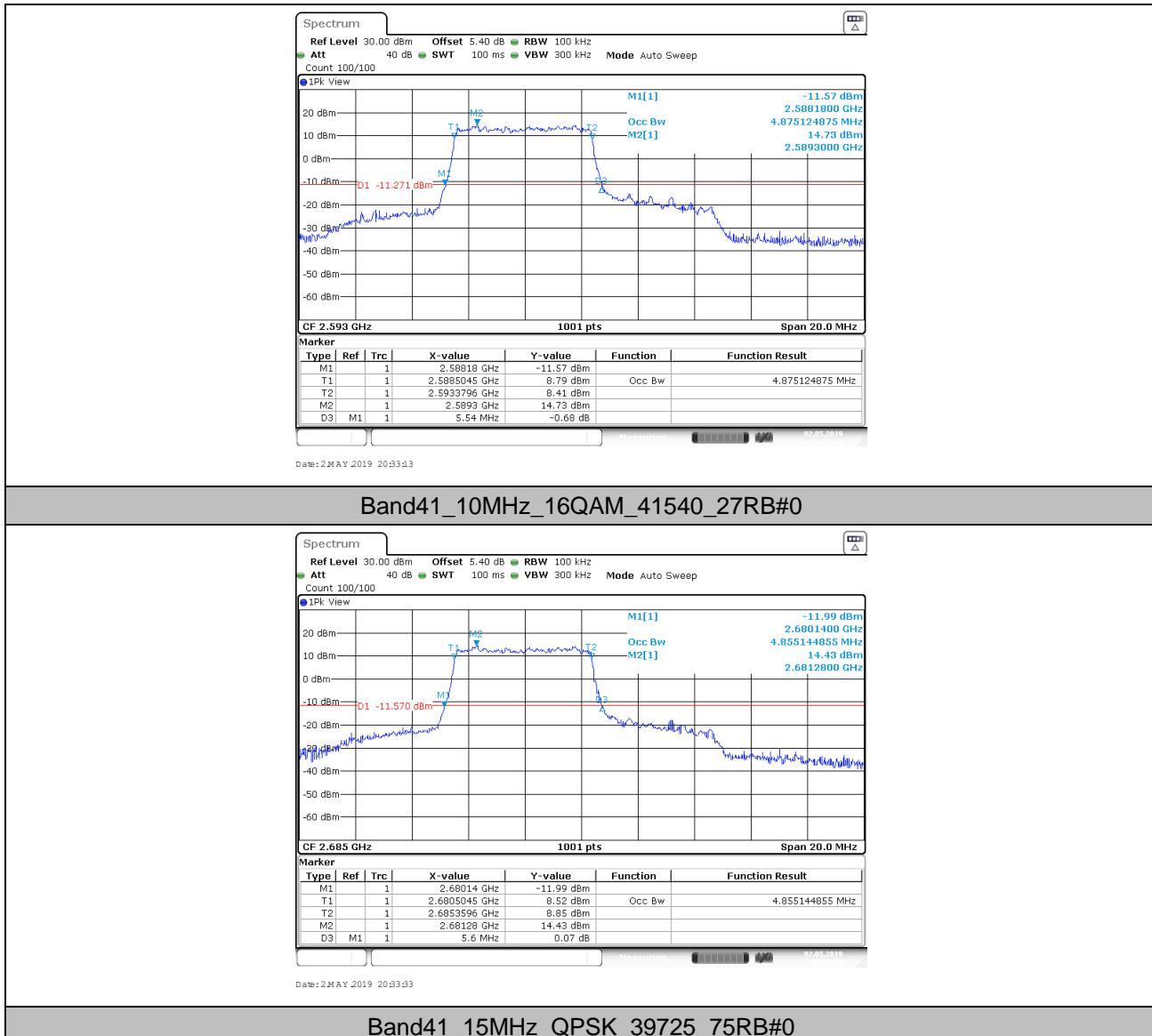


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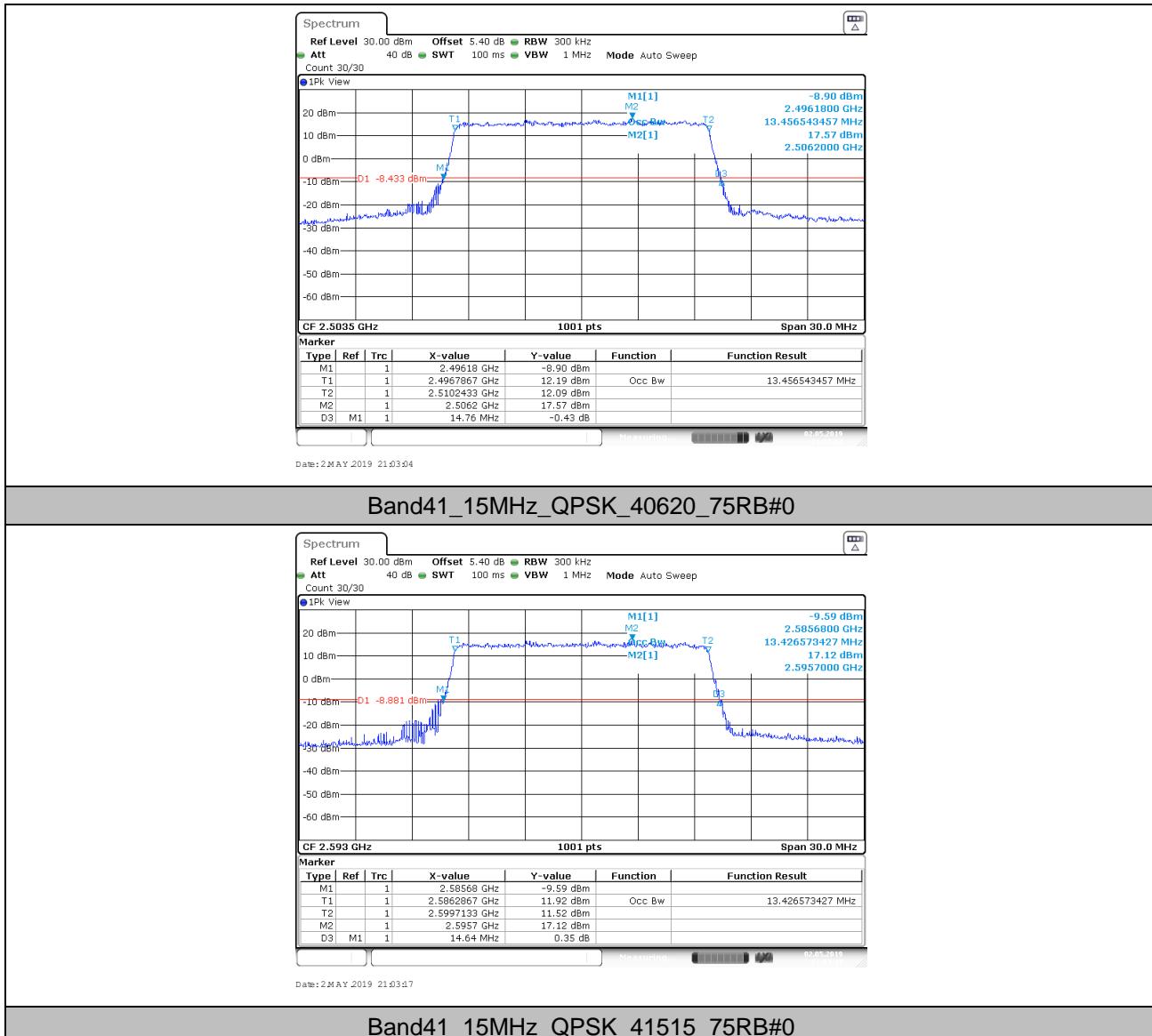
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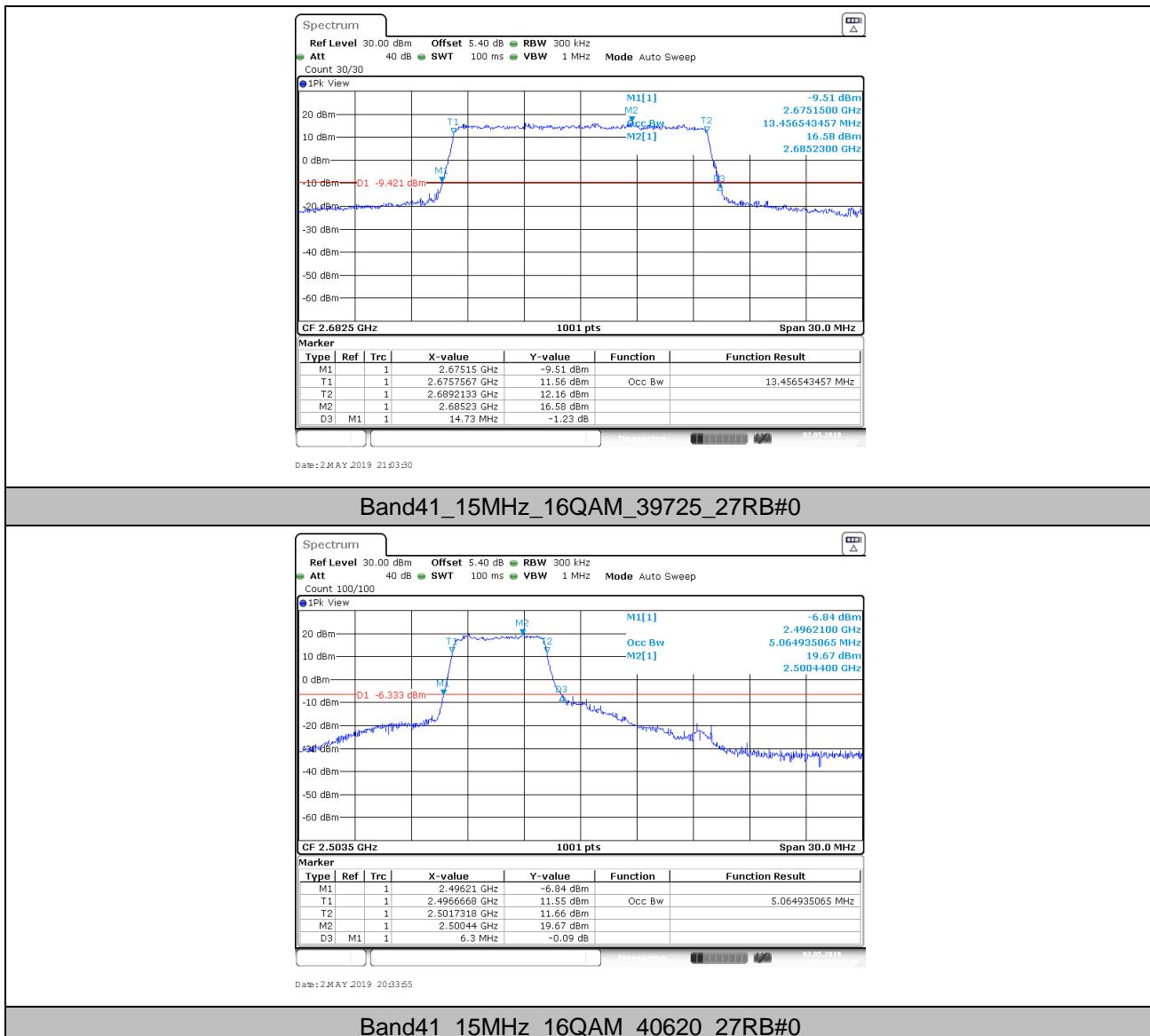


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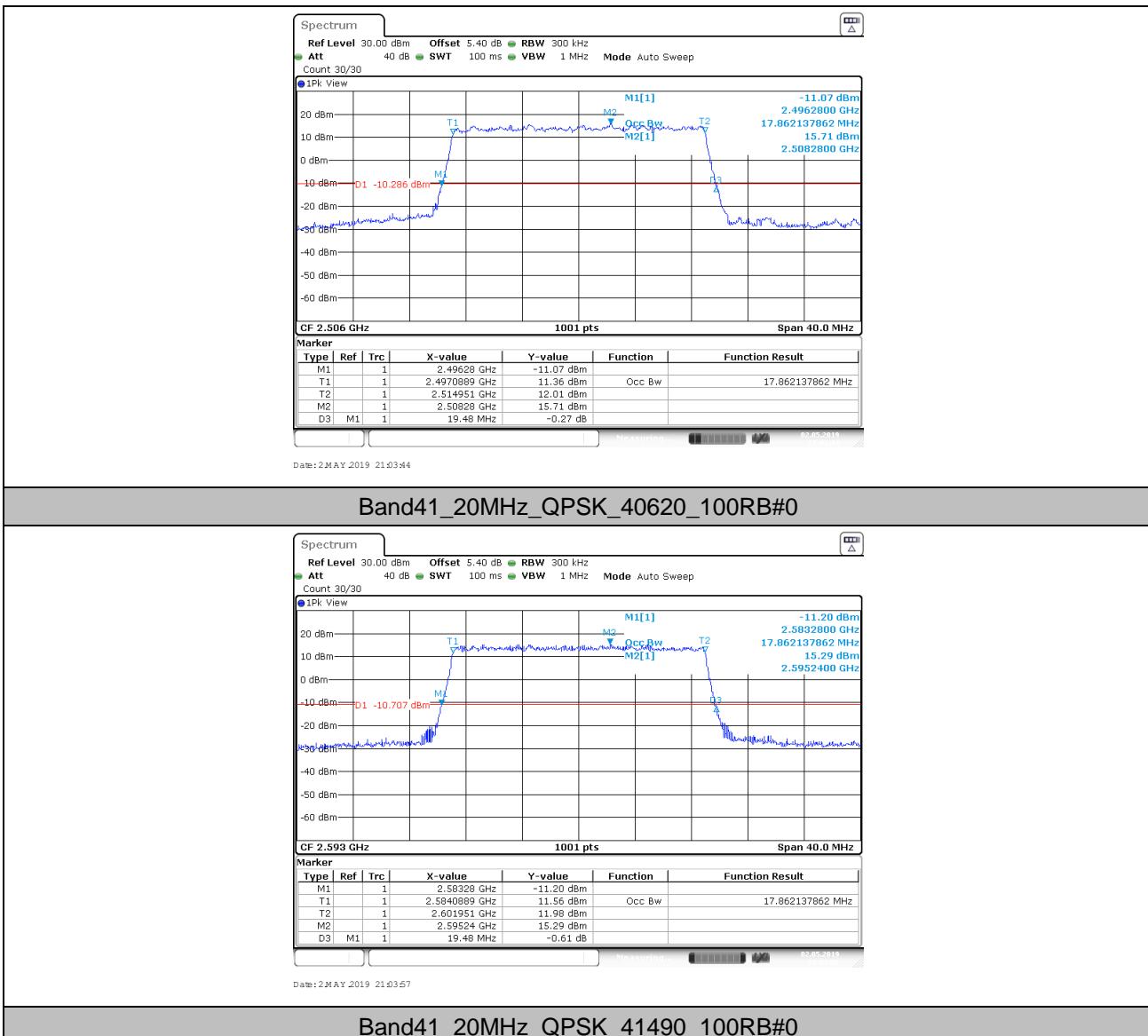
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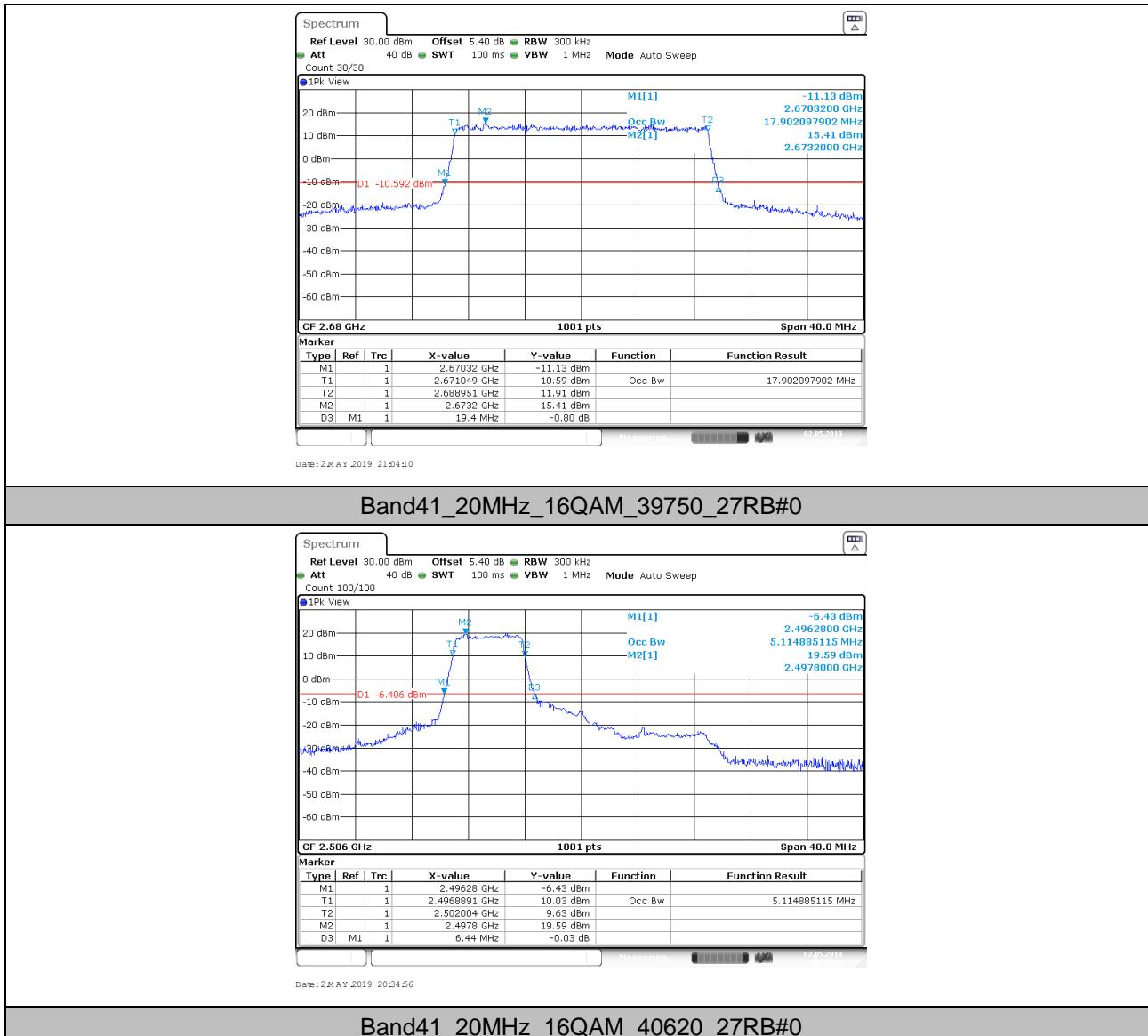
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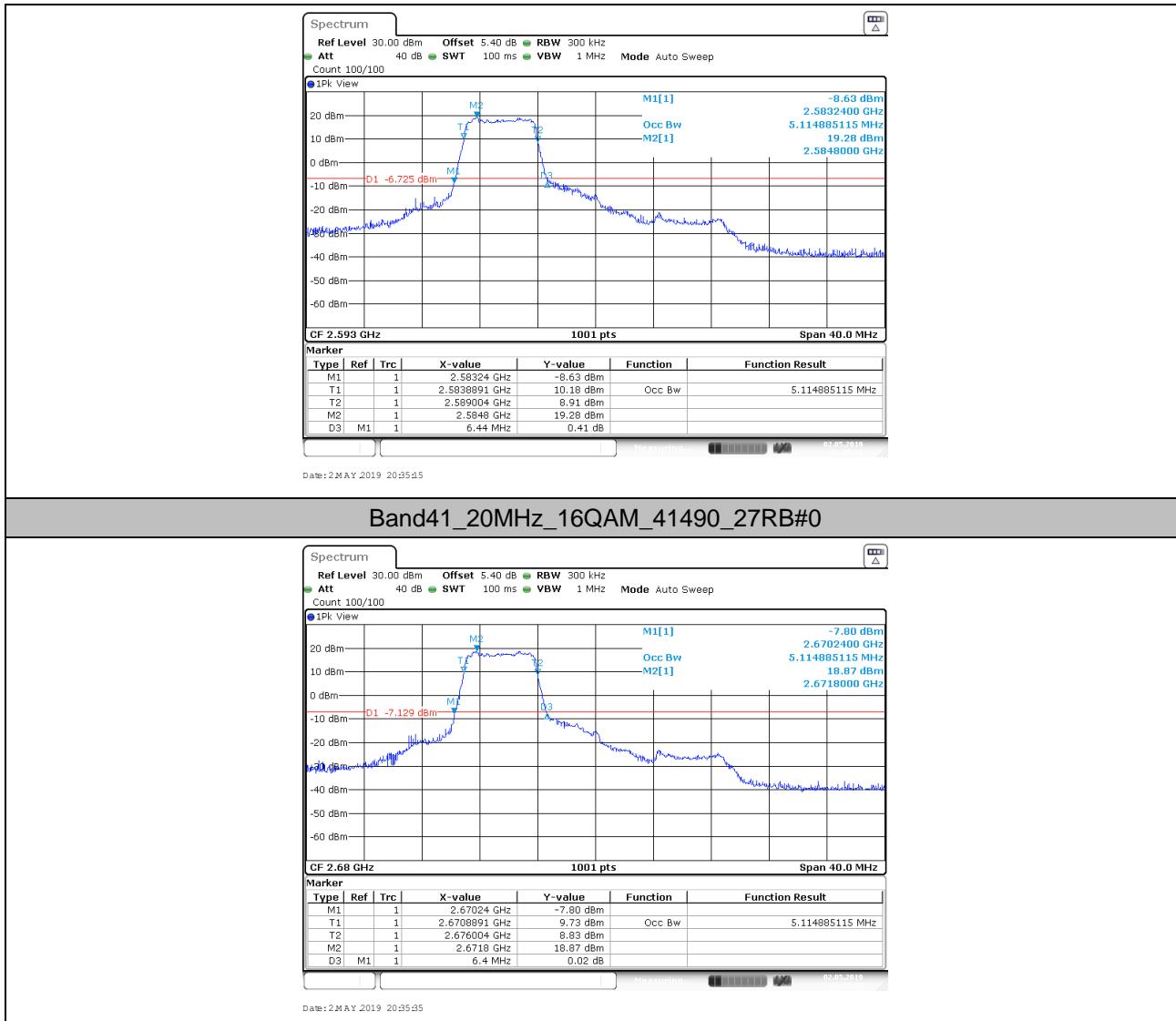


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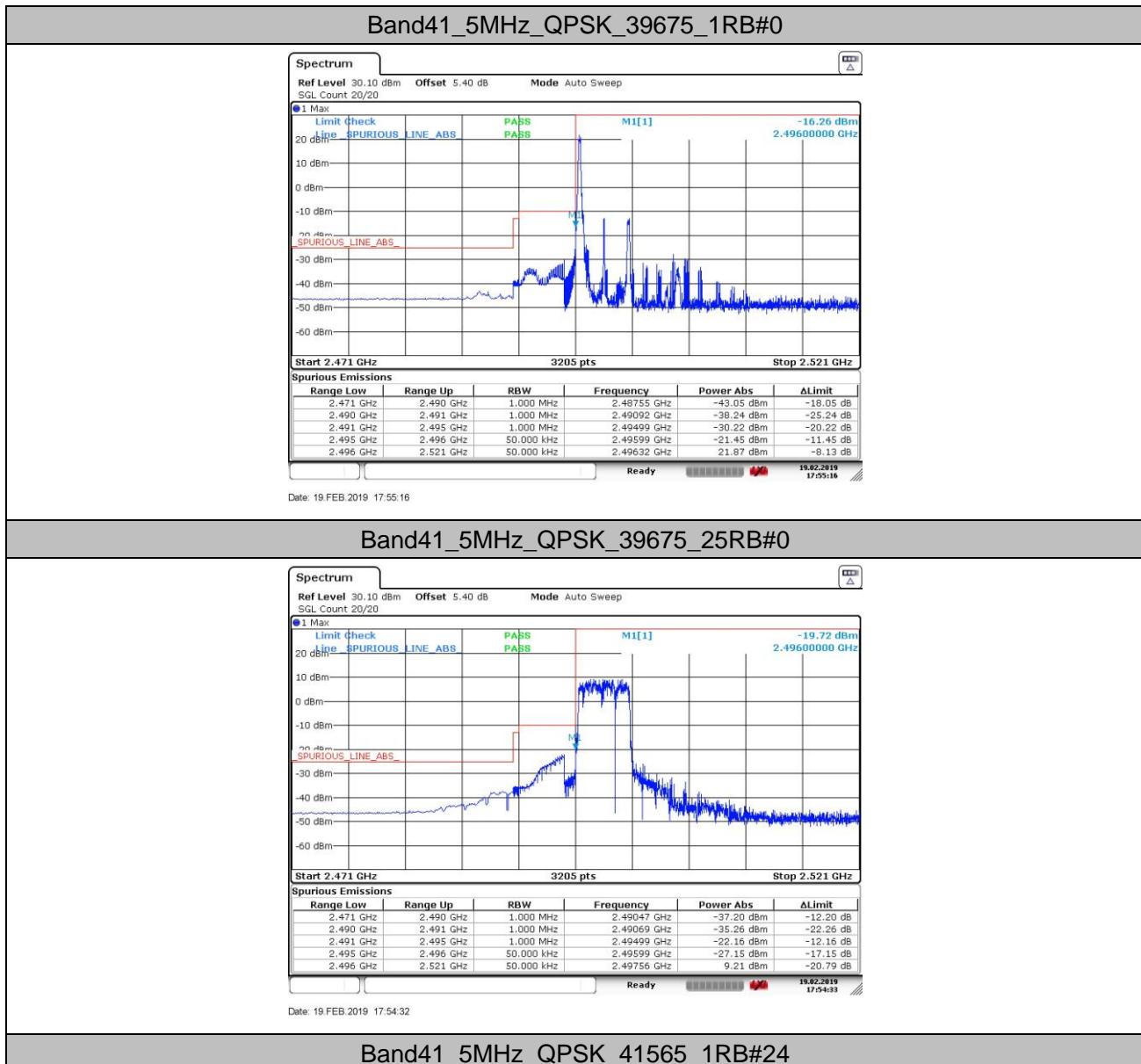
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5. Band Edge Compliance

5.1. Test Plots

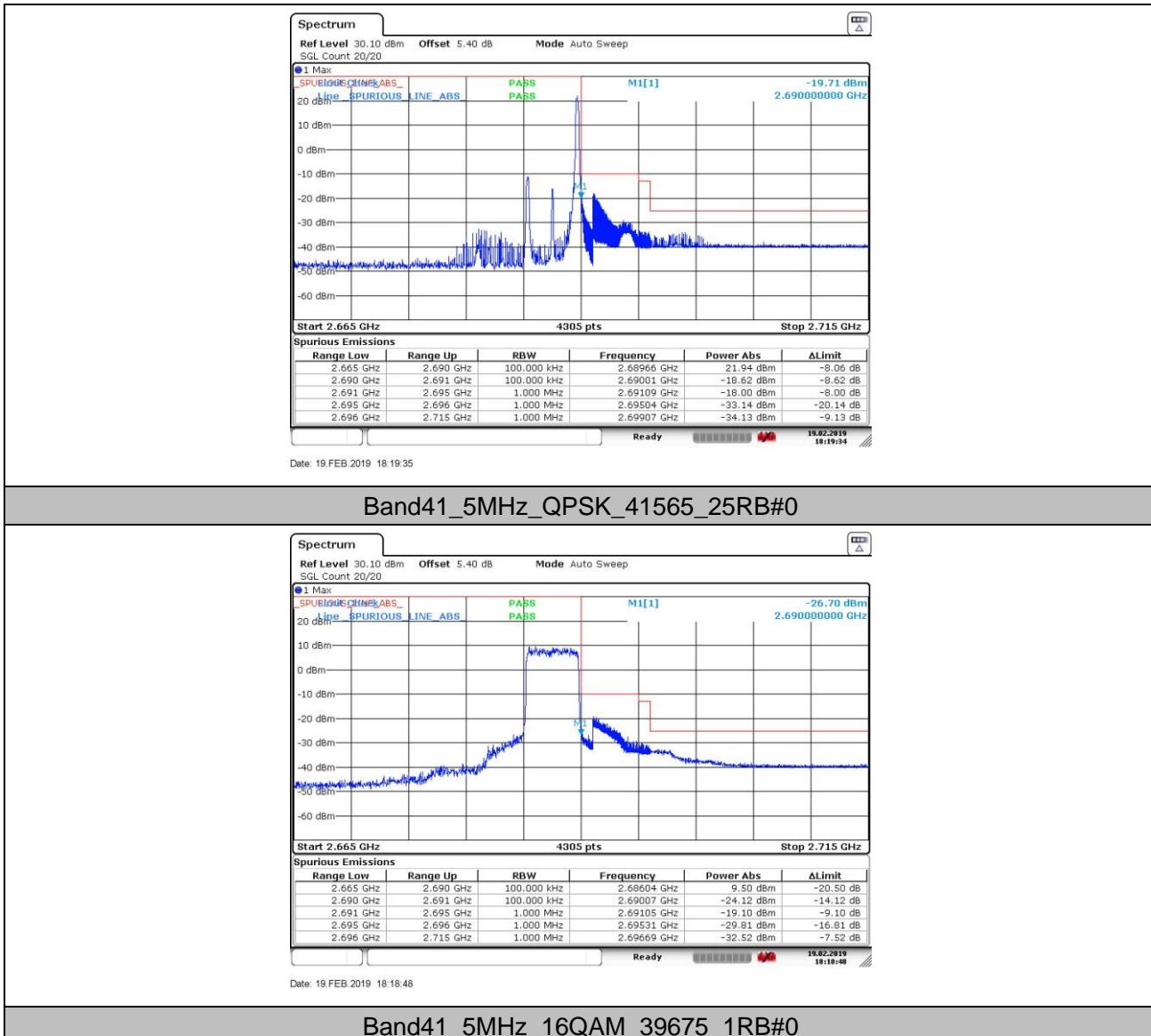


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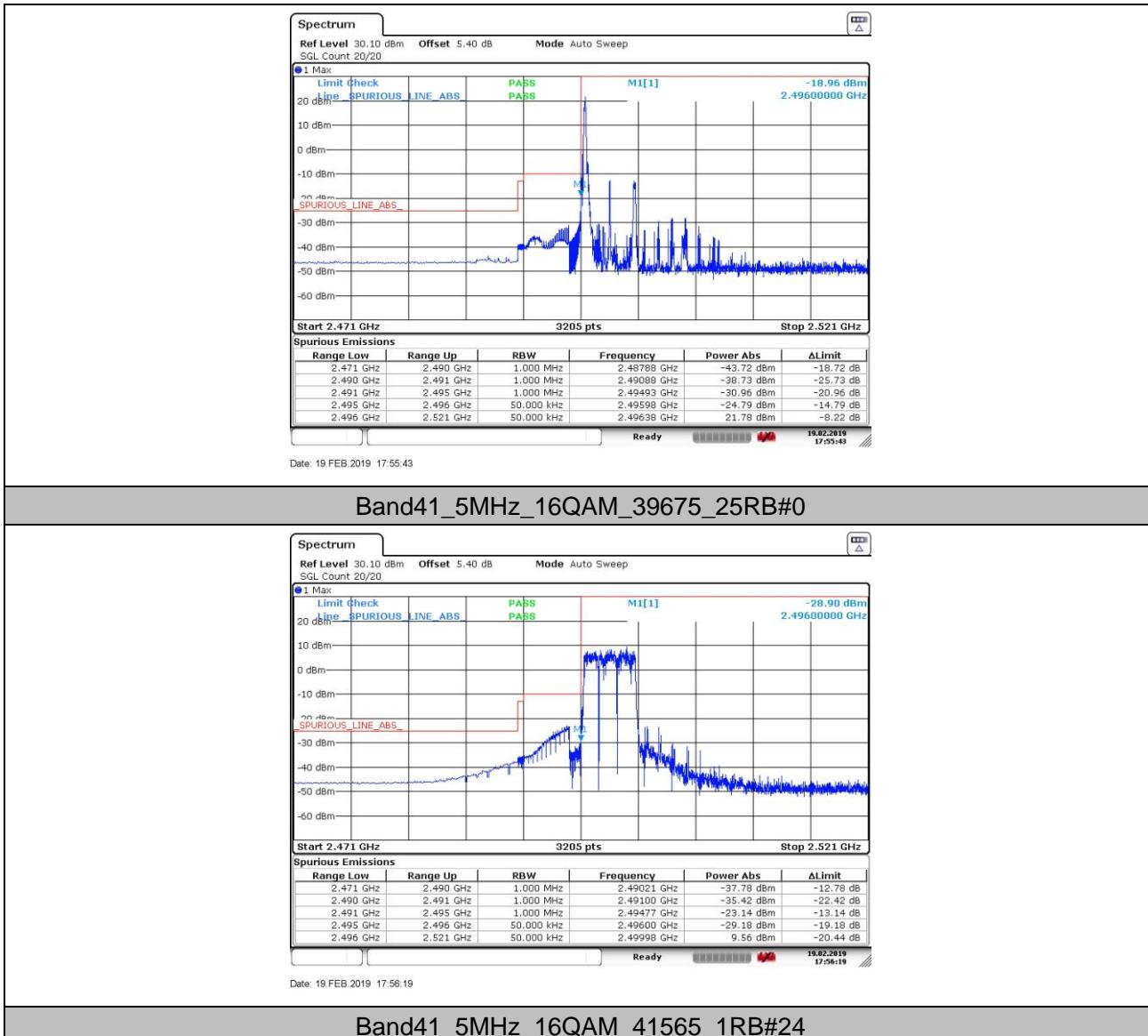


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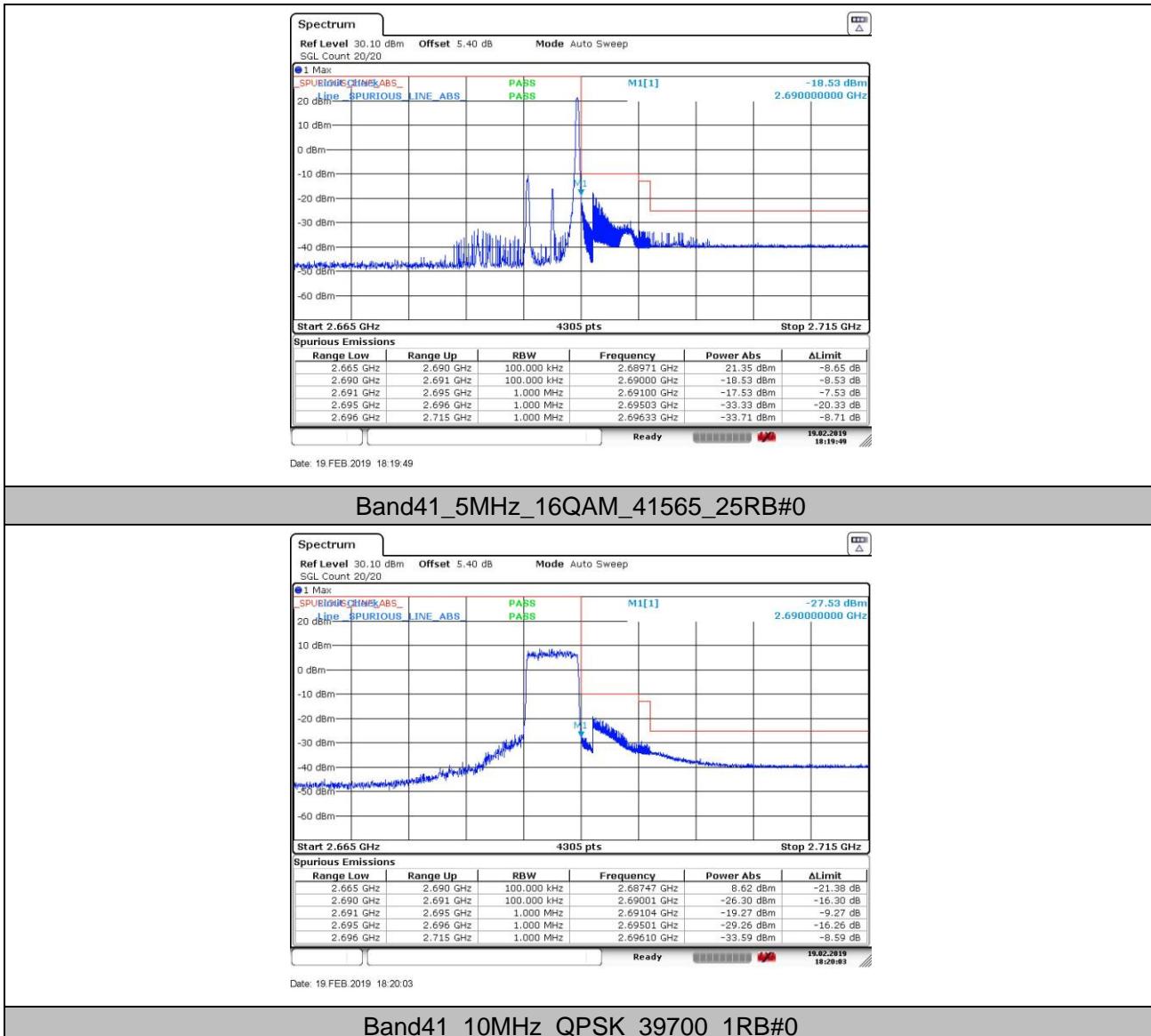
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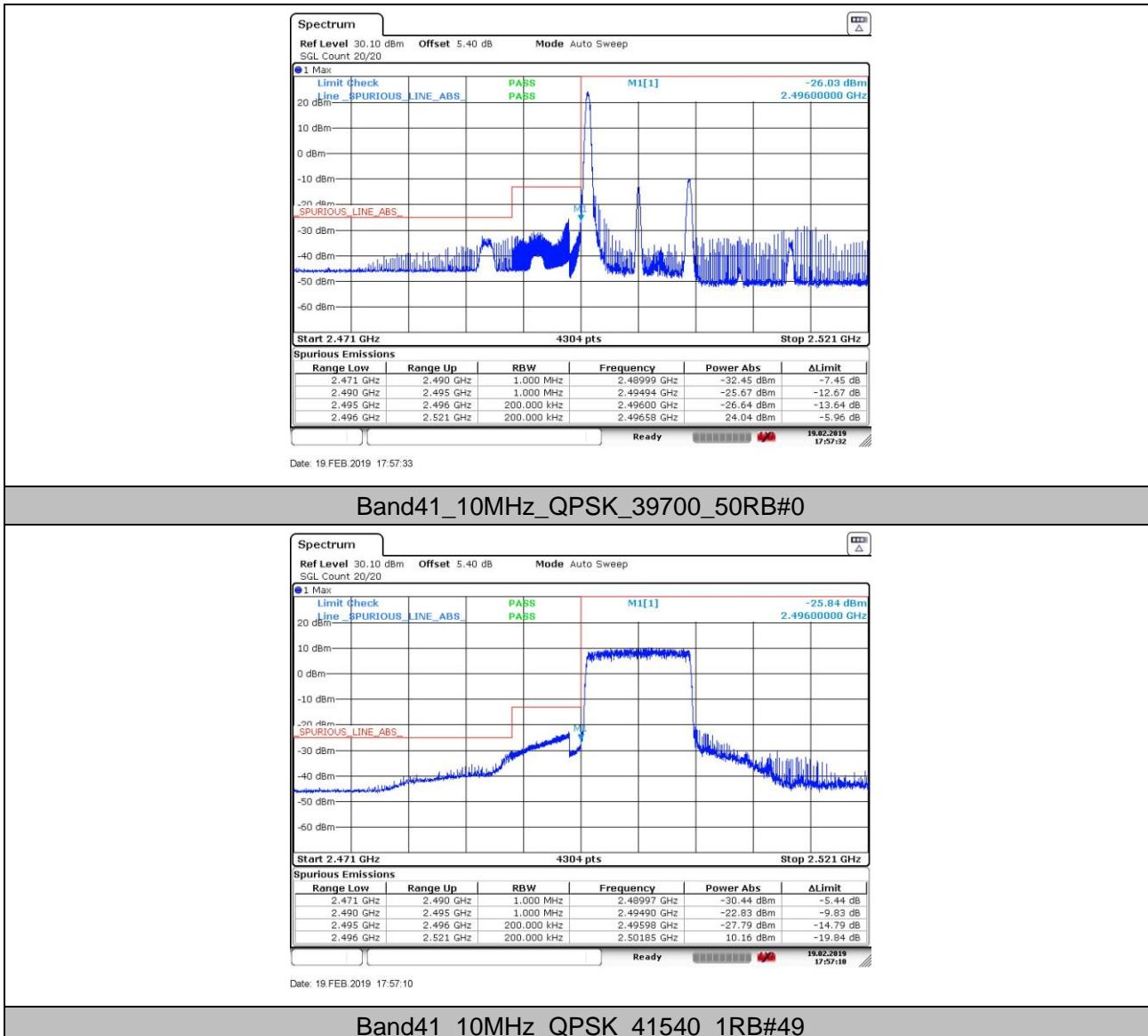




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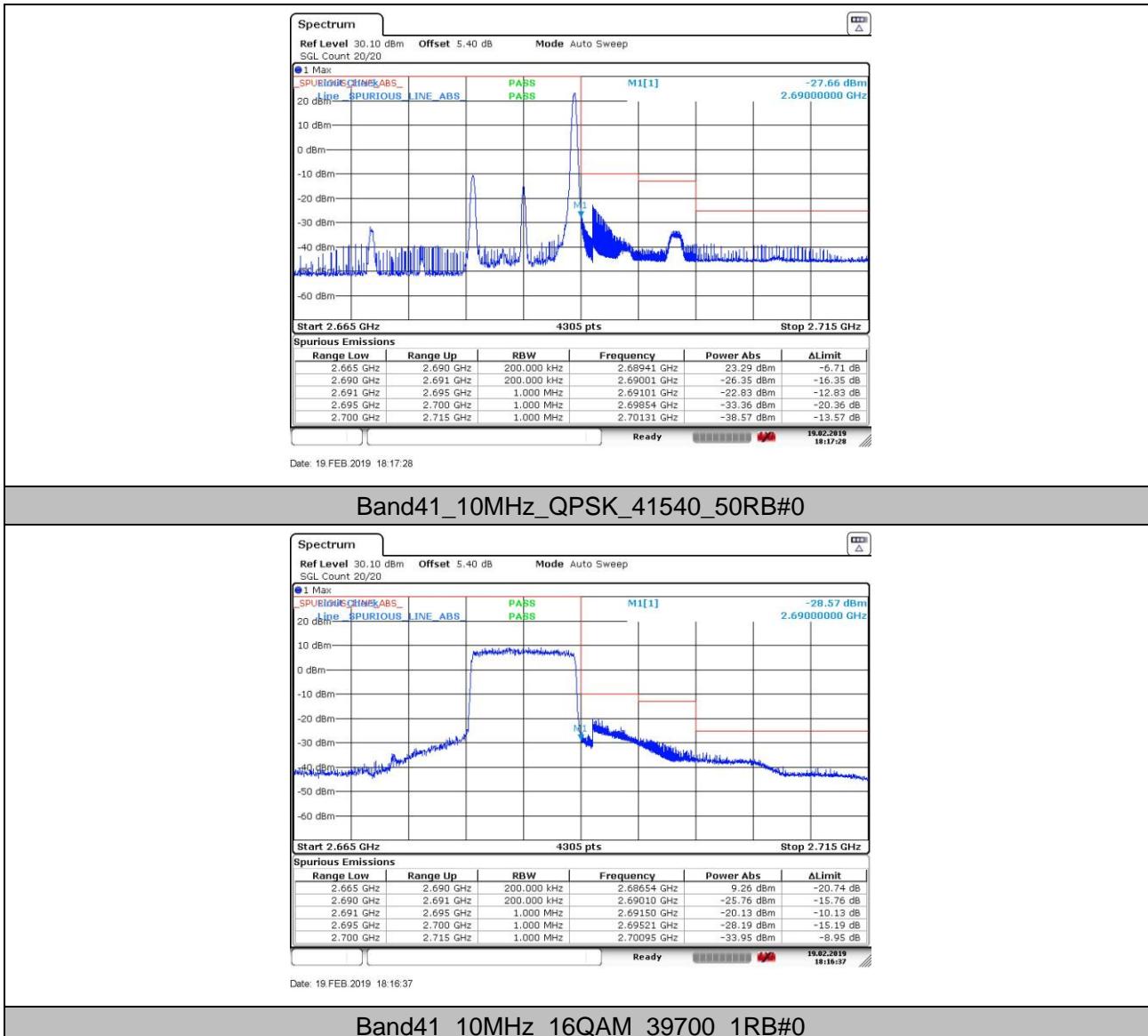
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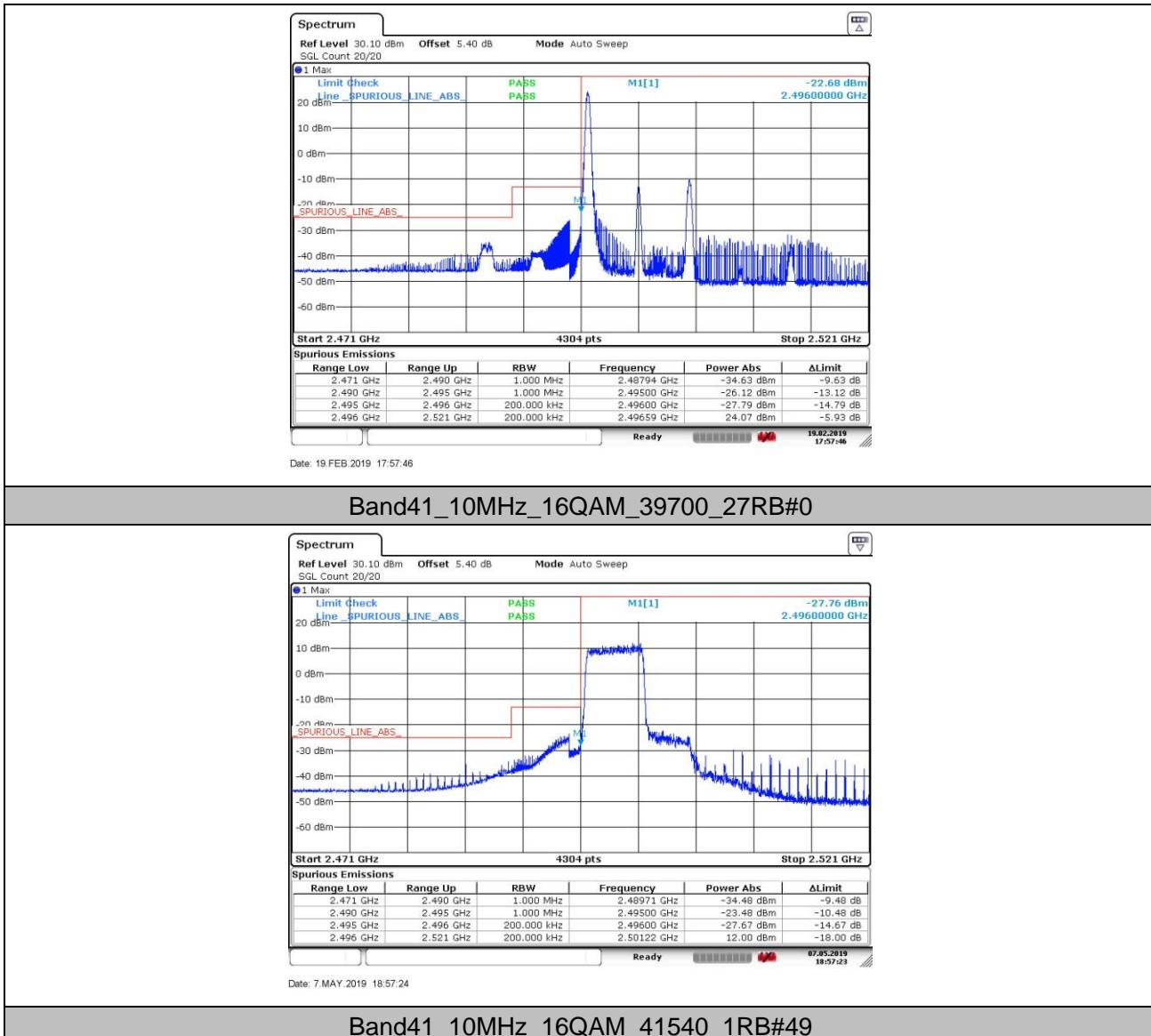
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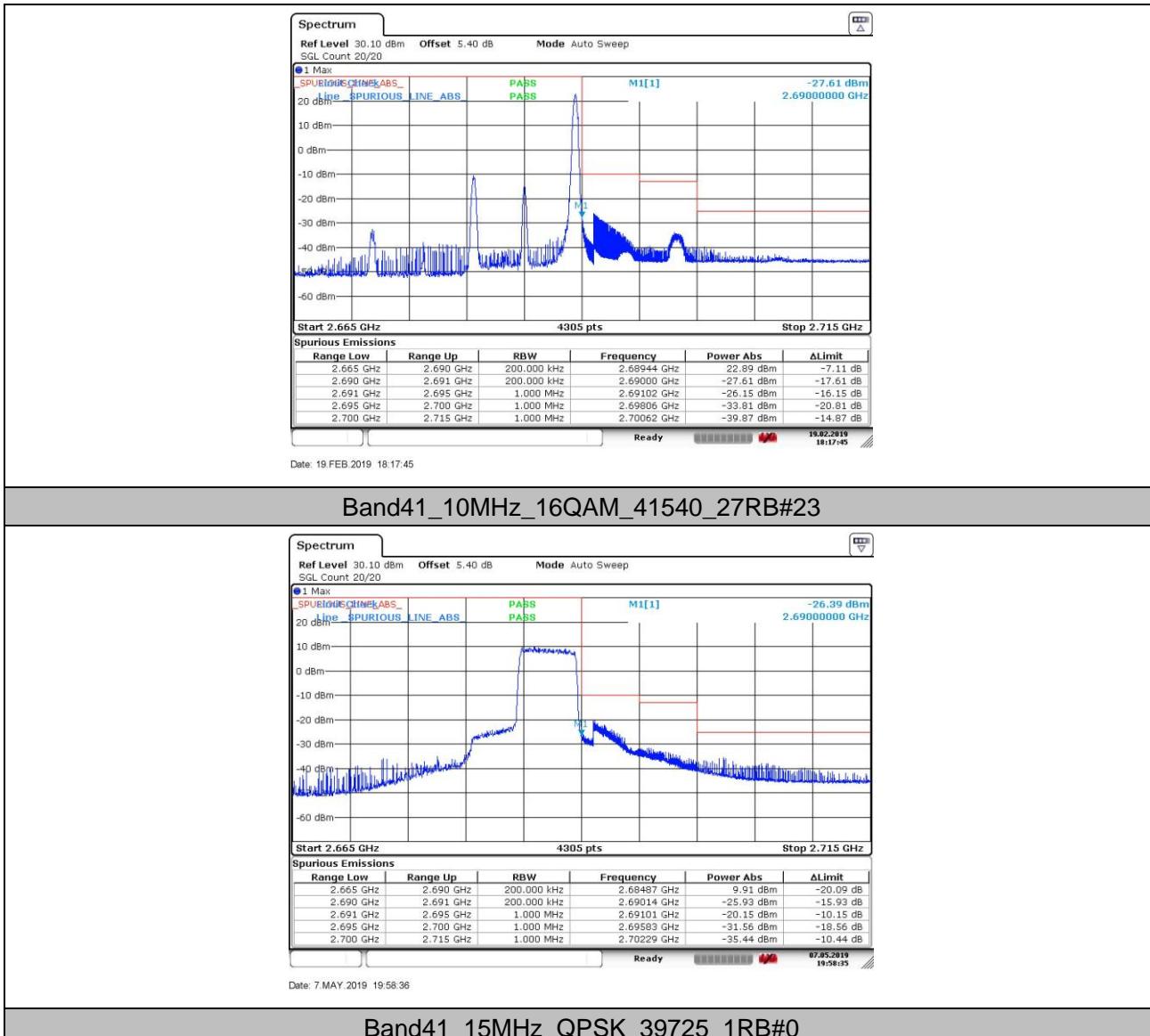
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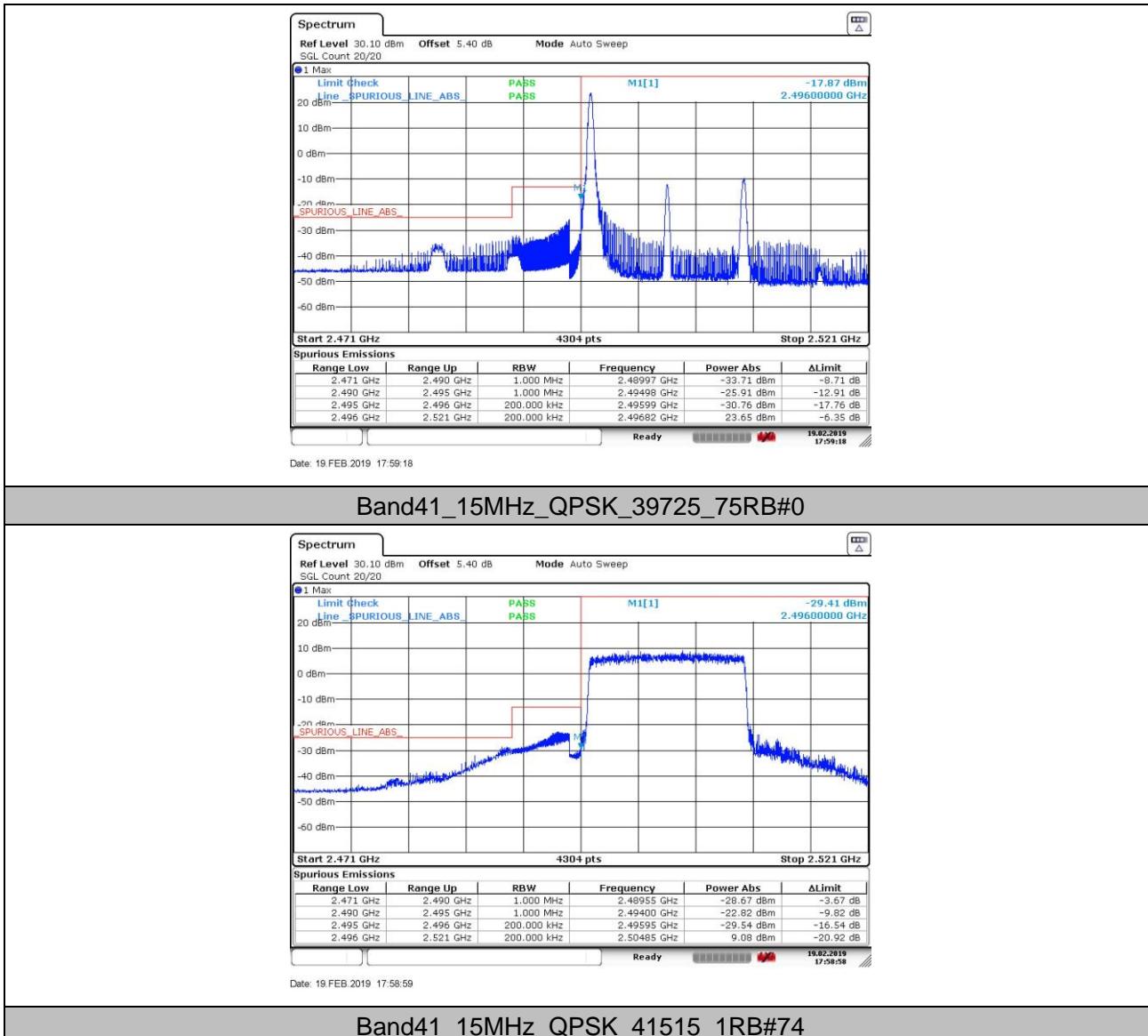


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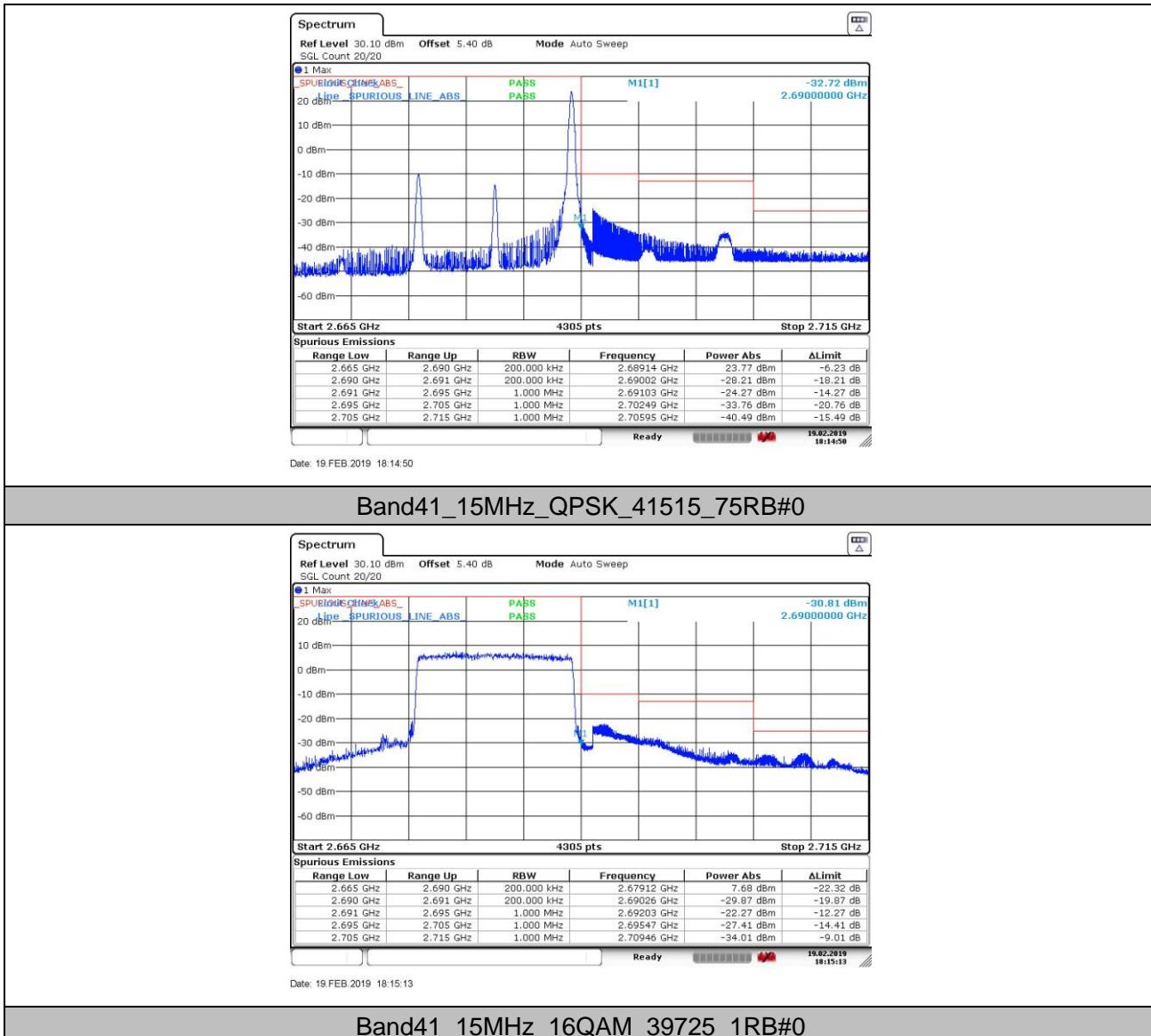
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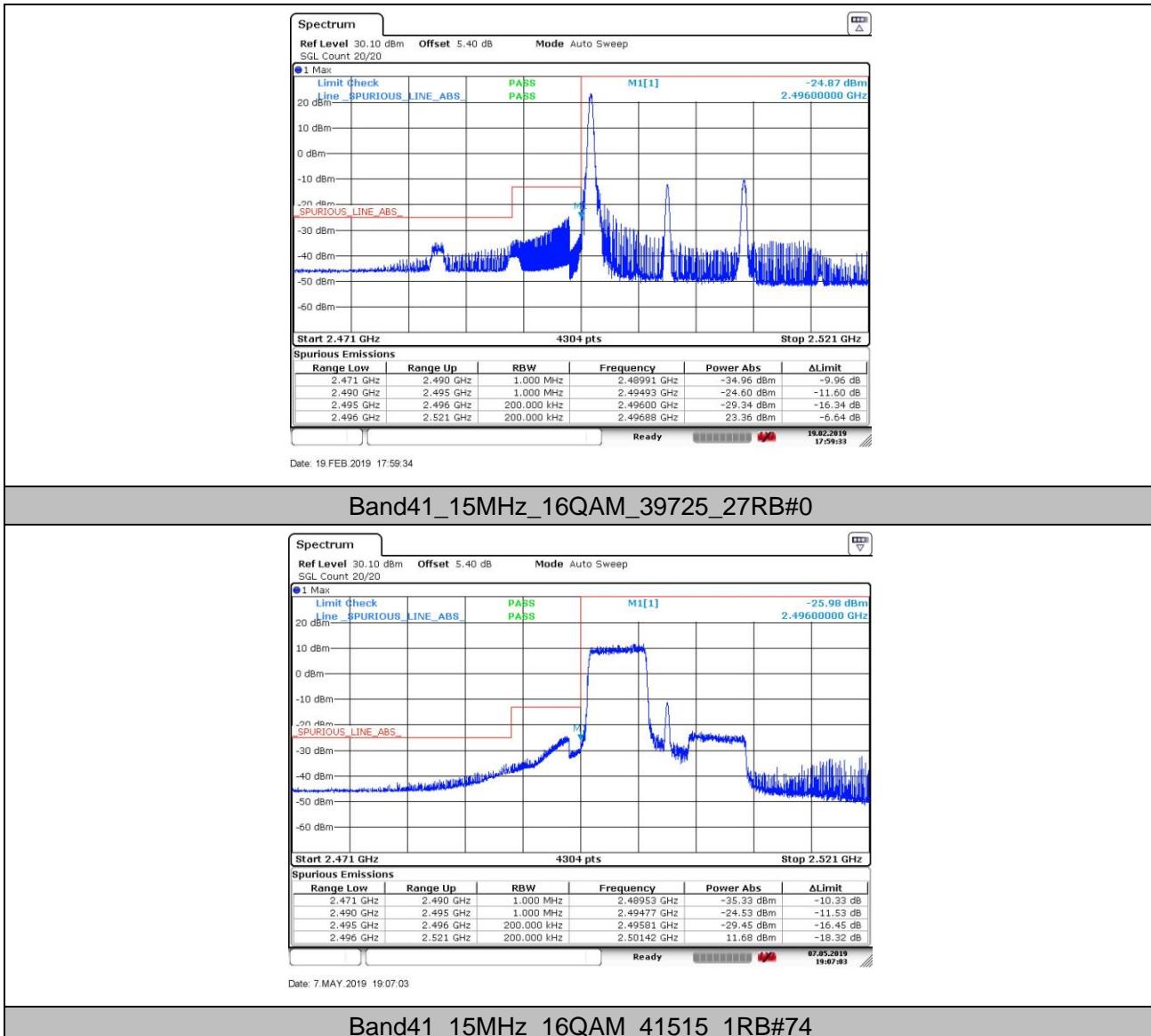
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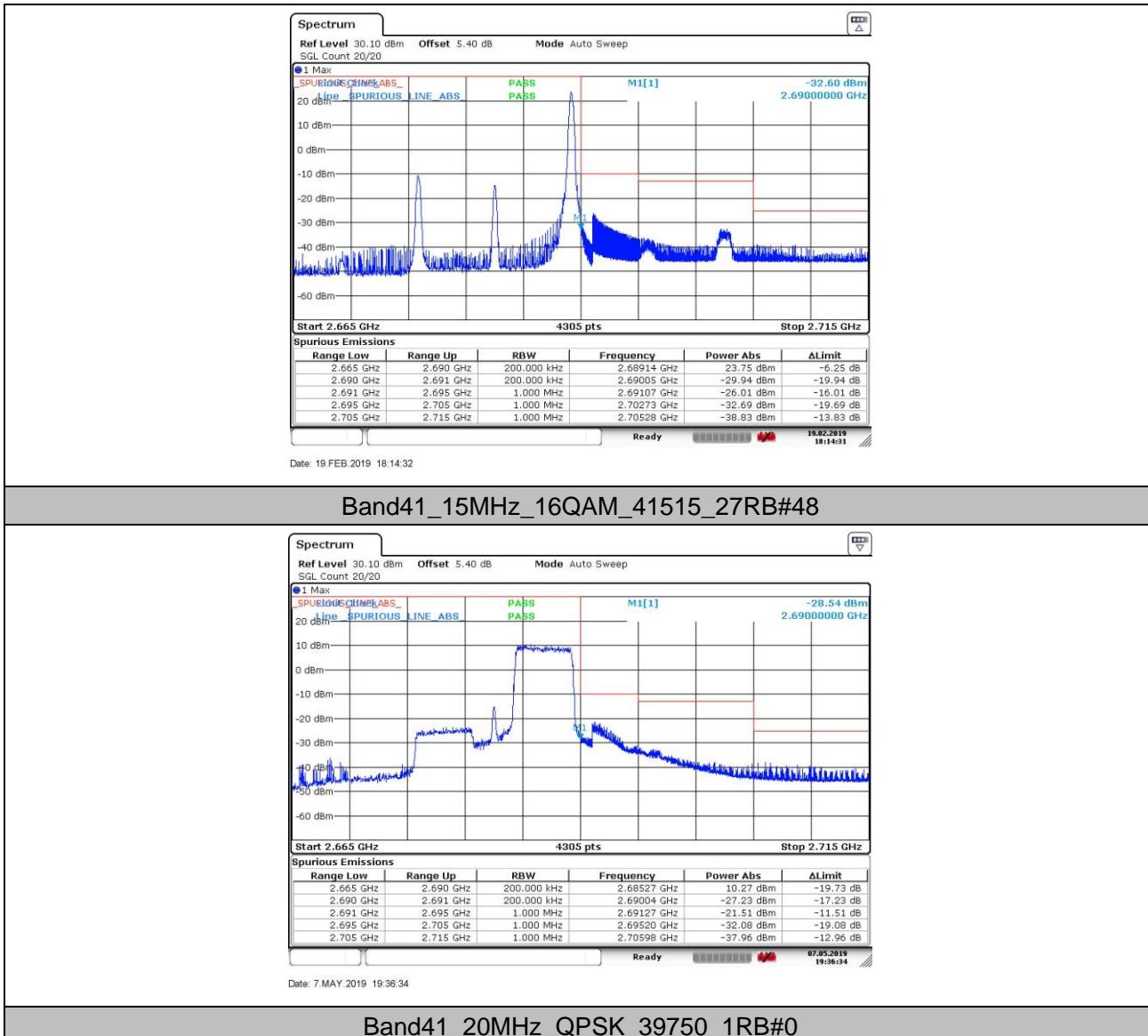
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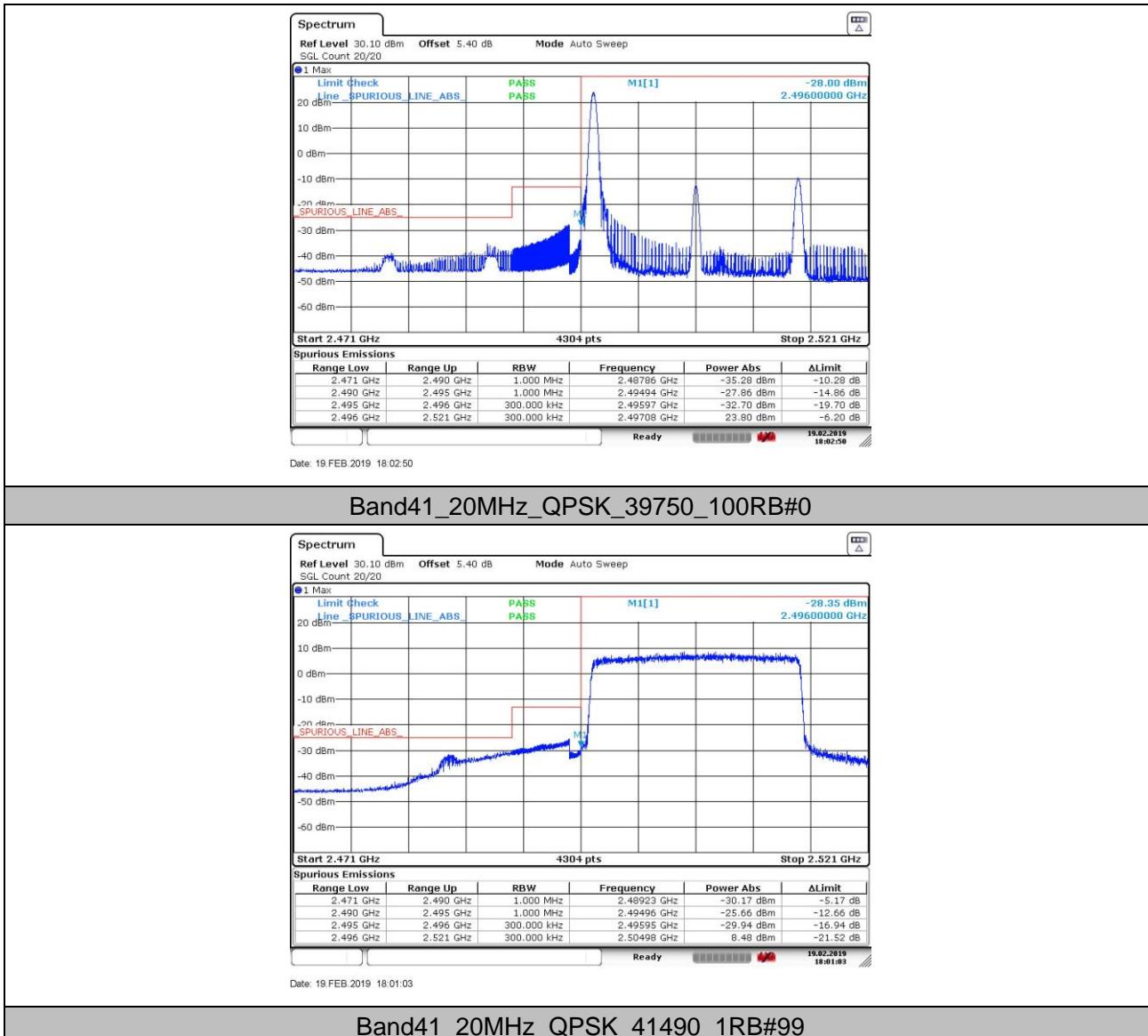


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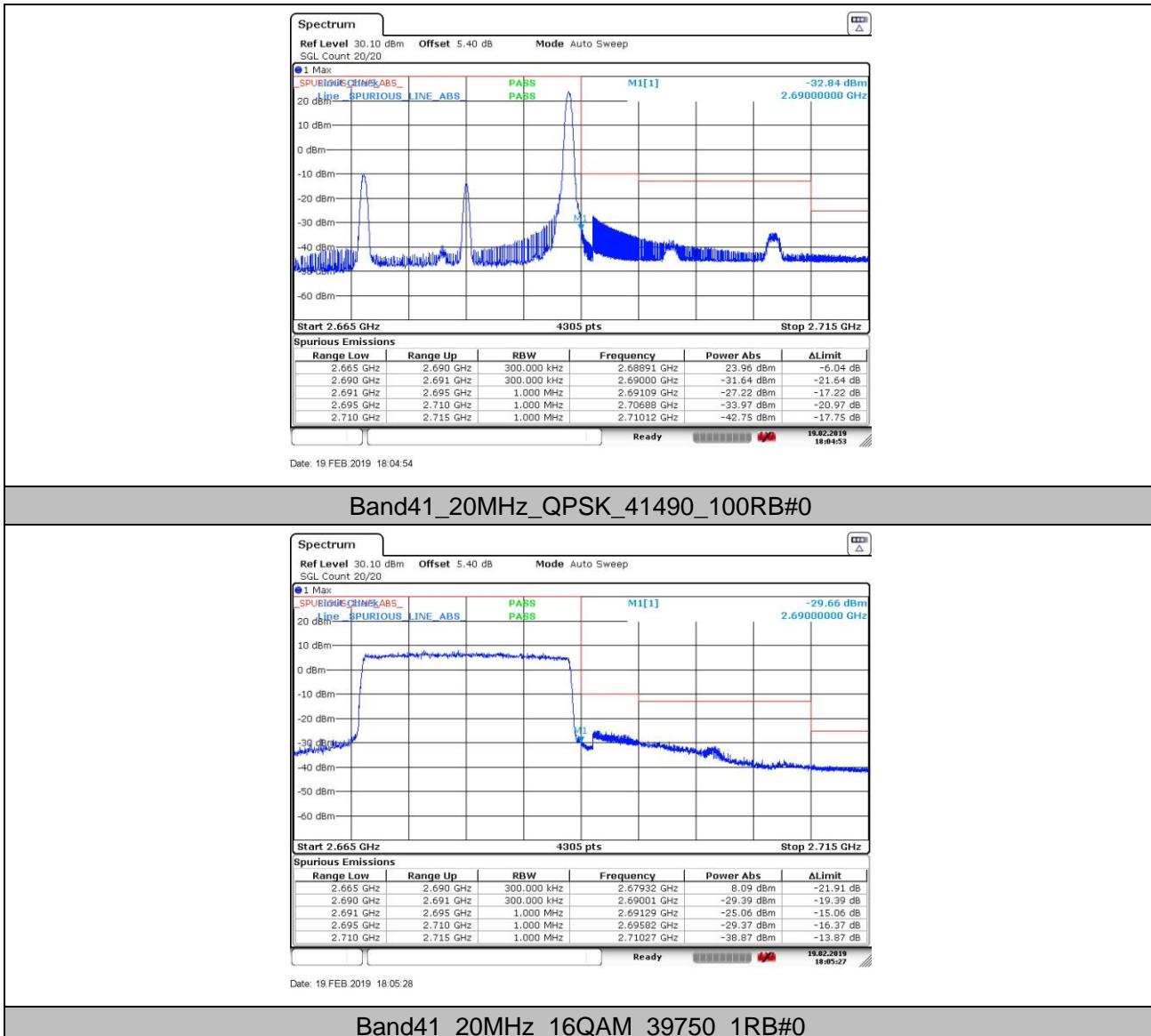


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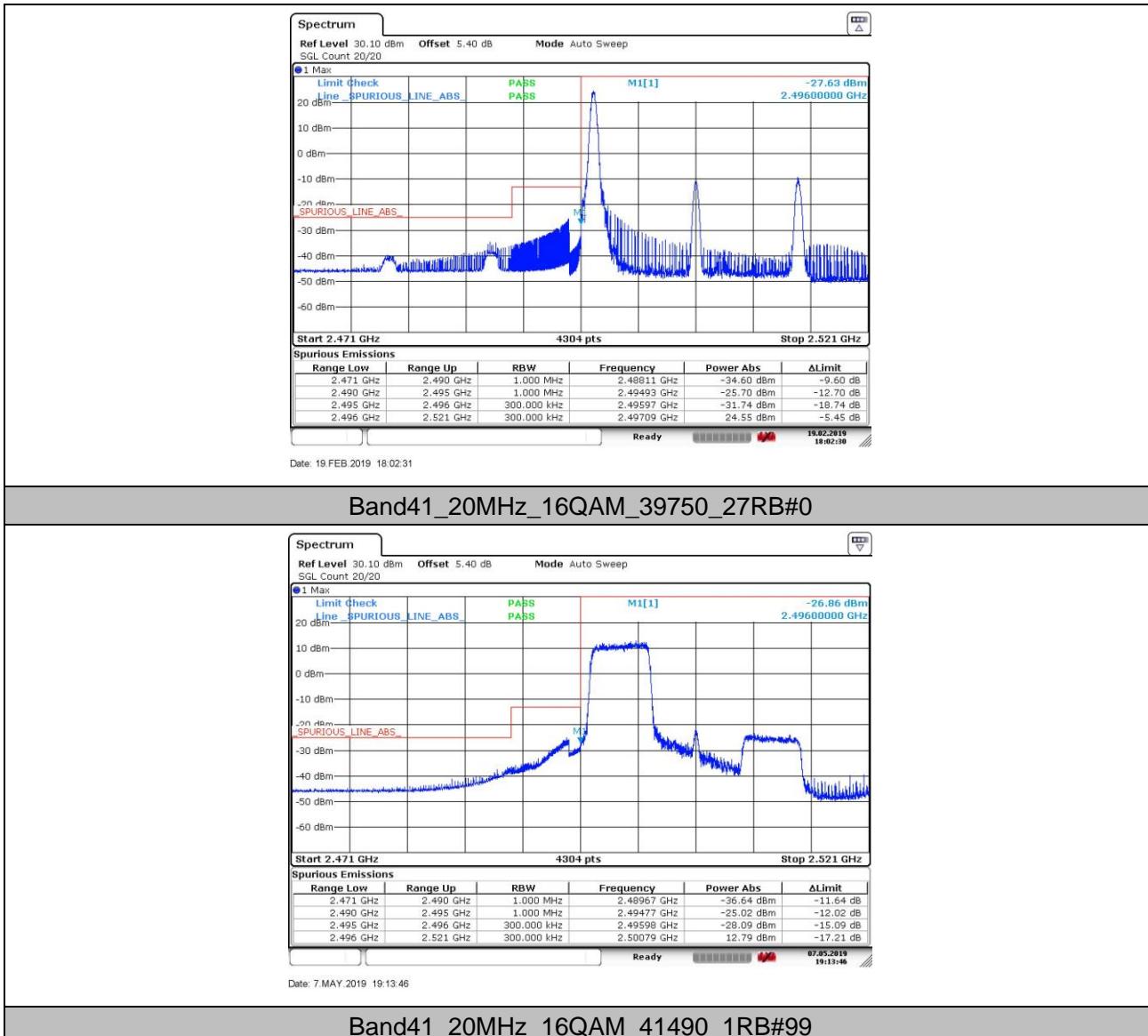
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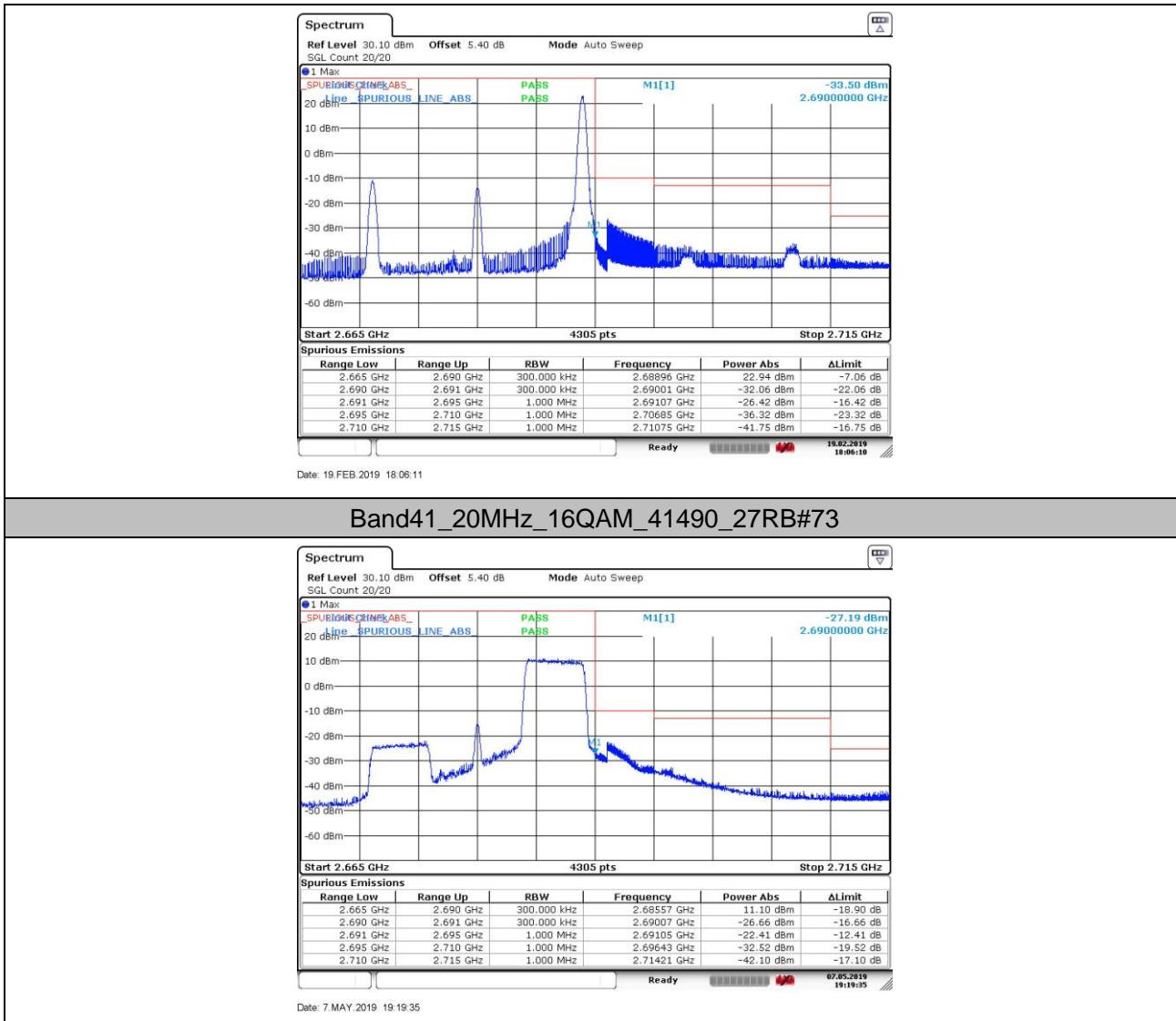


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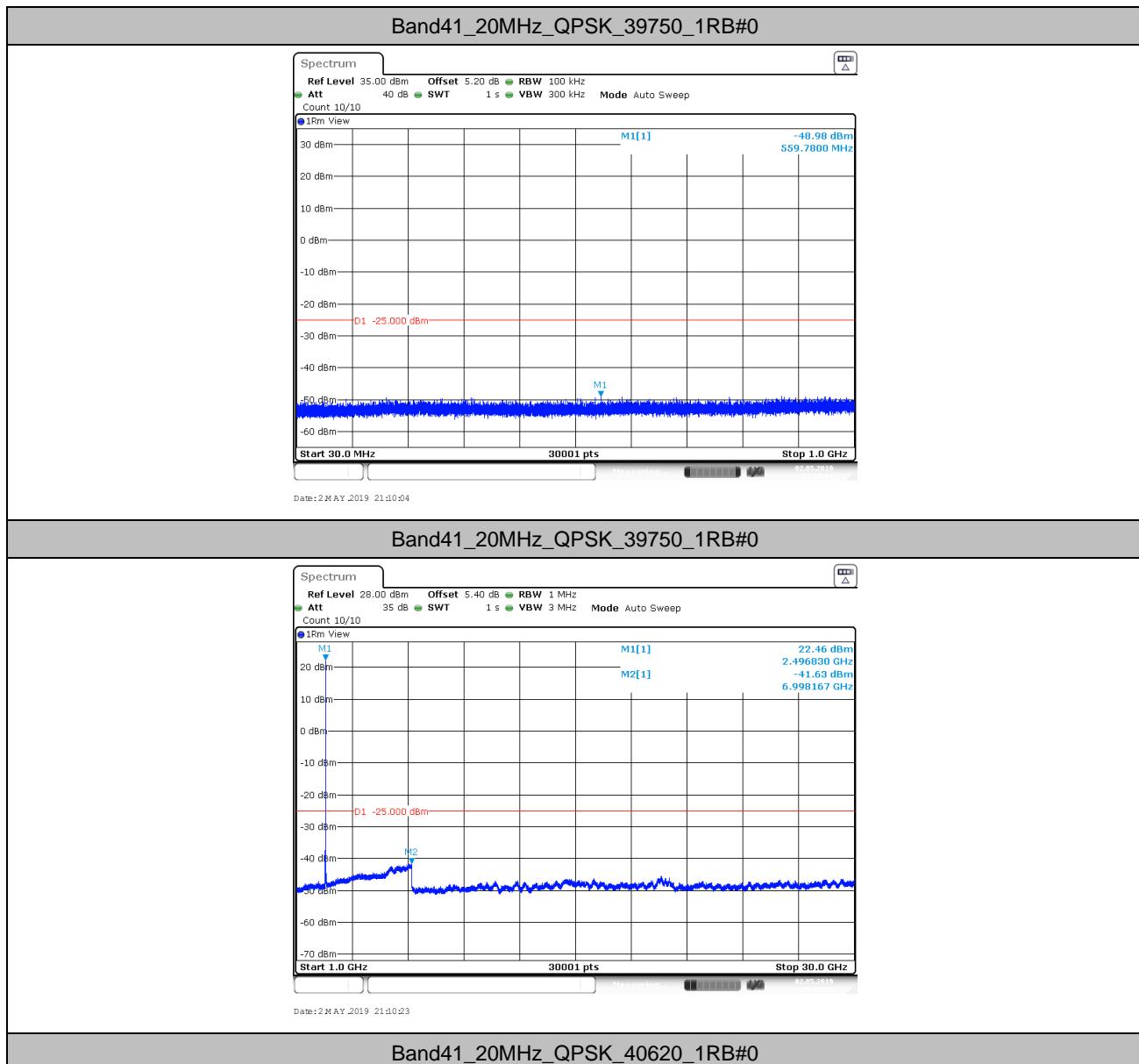


6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ 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.

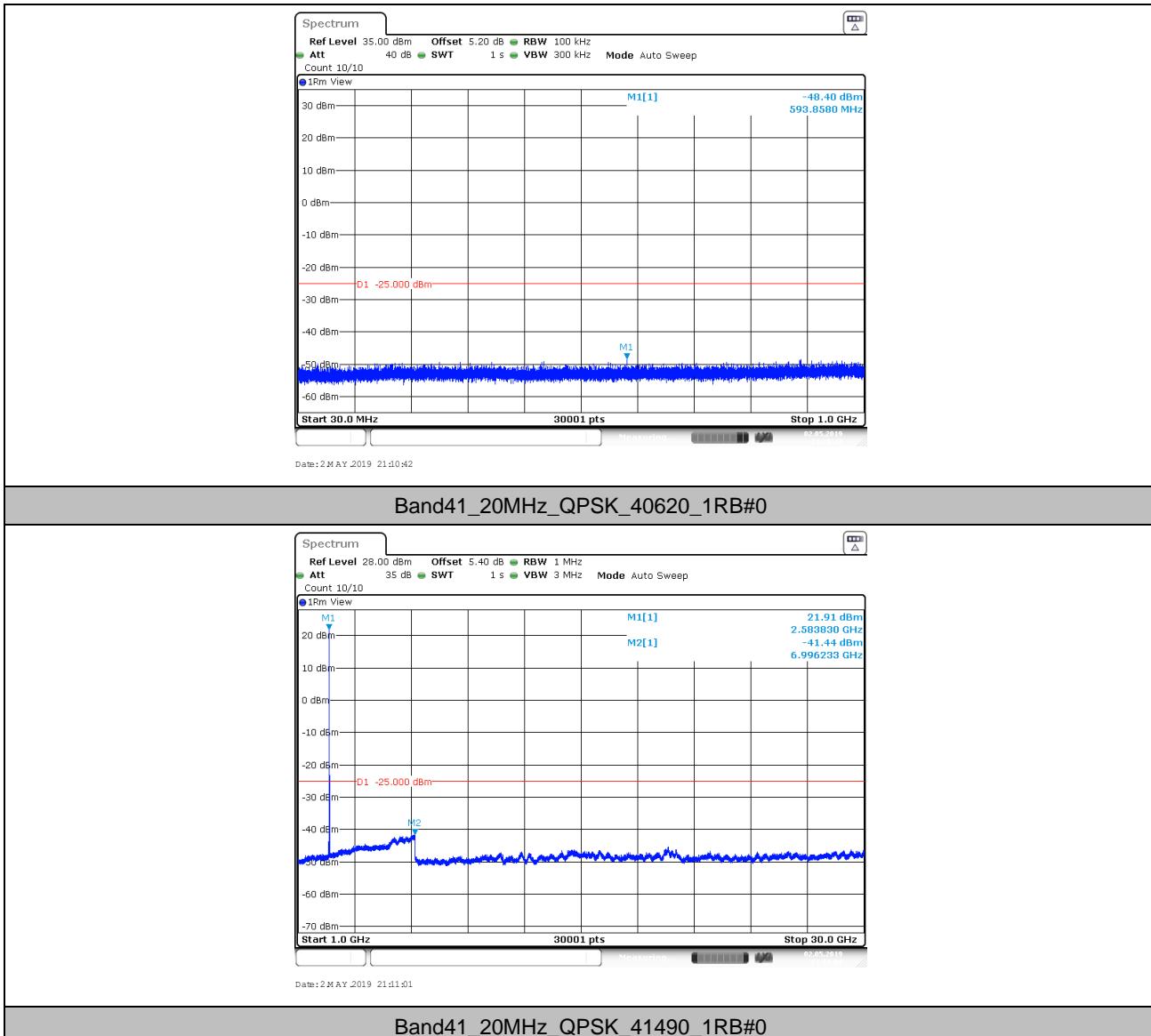
6.1. Test Plots



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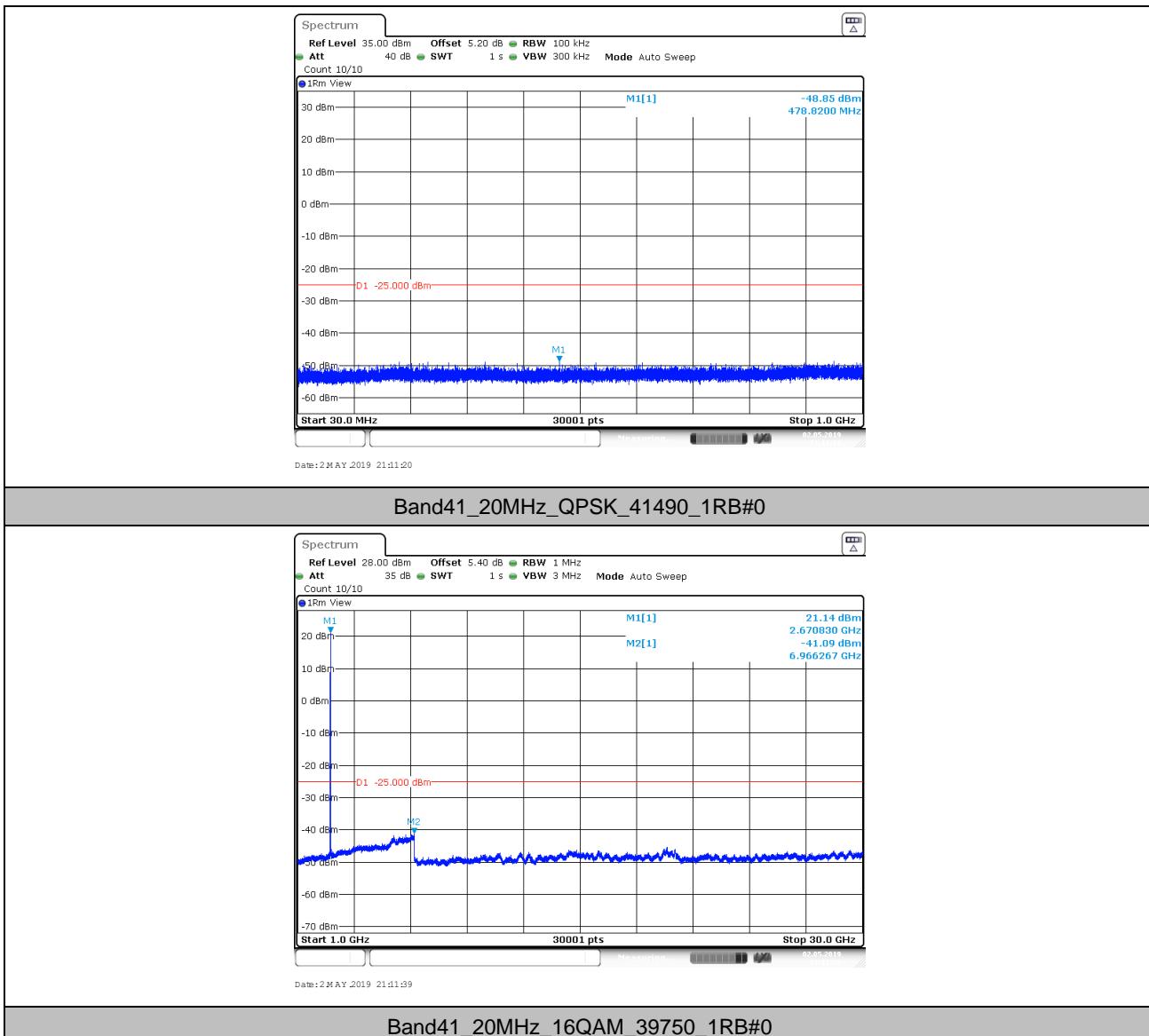
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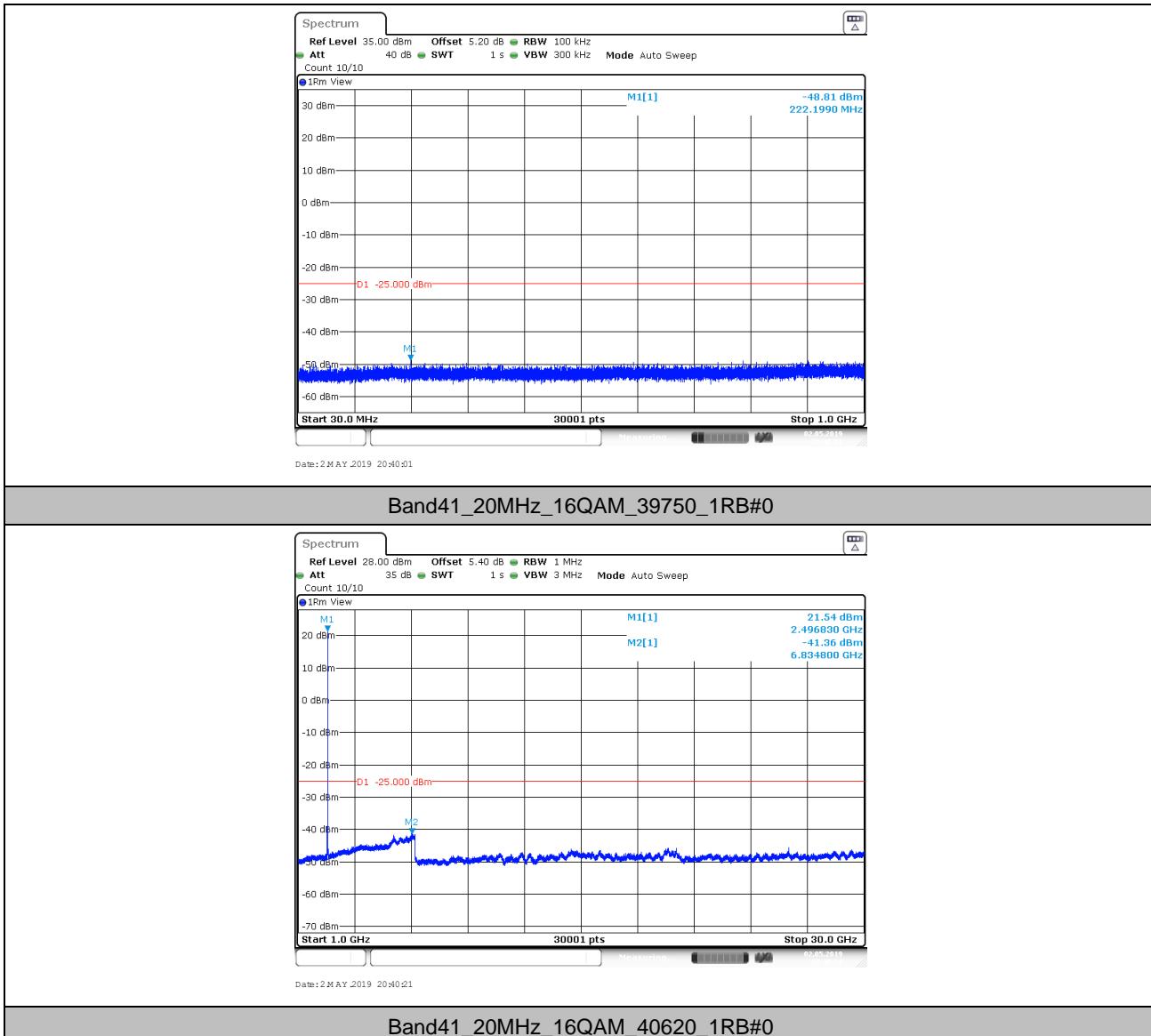
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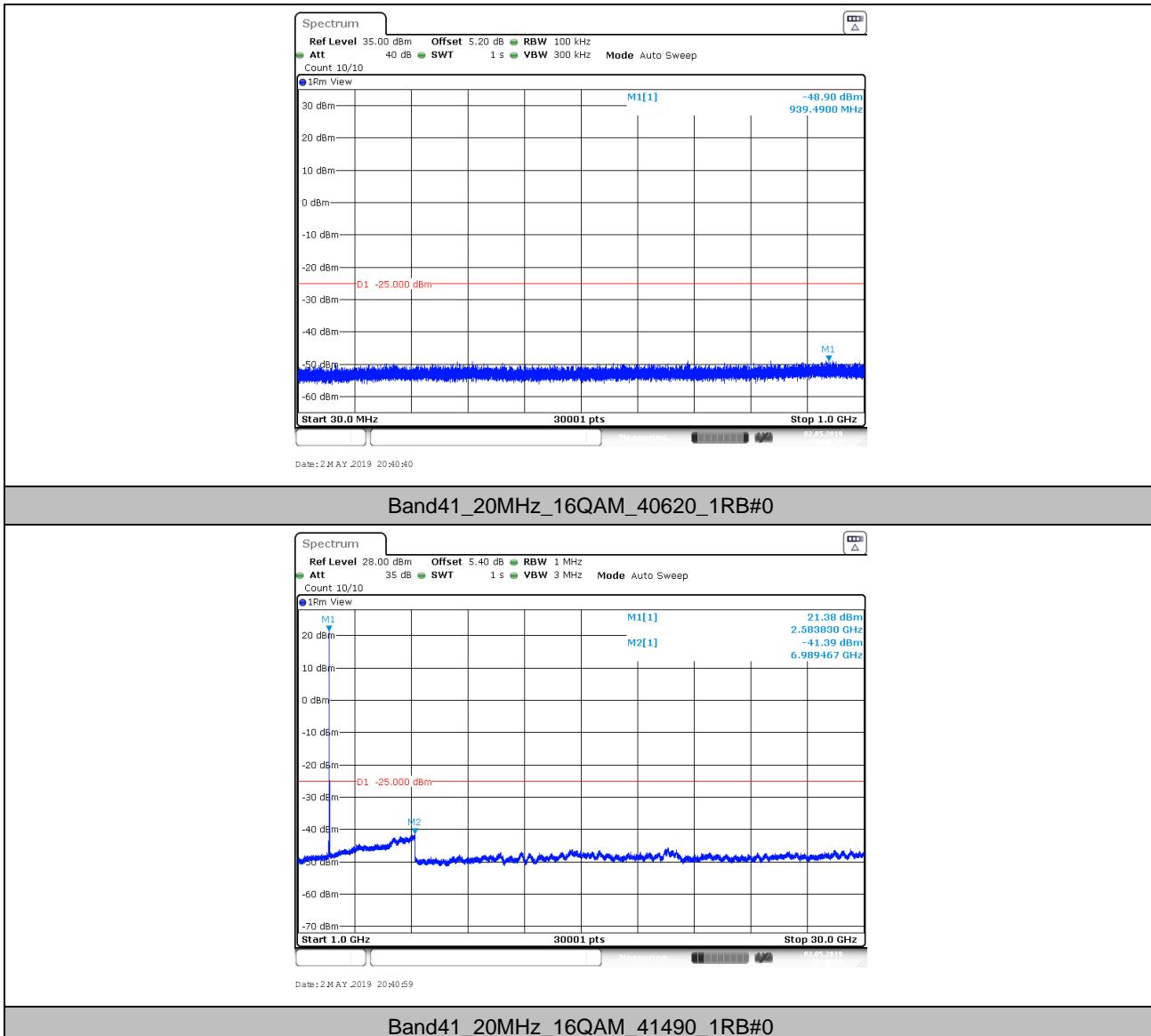
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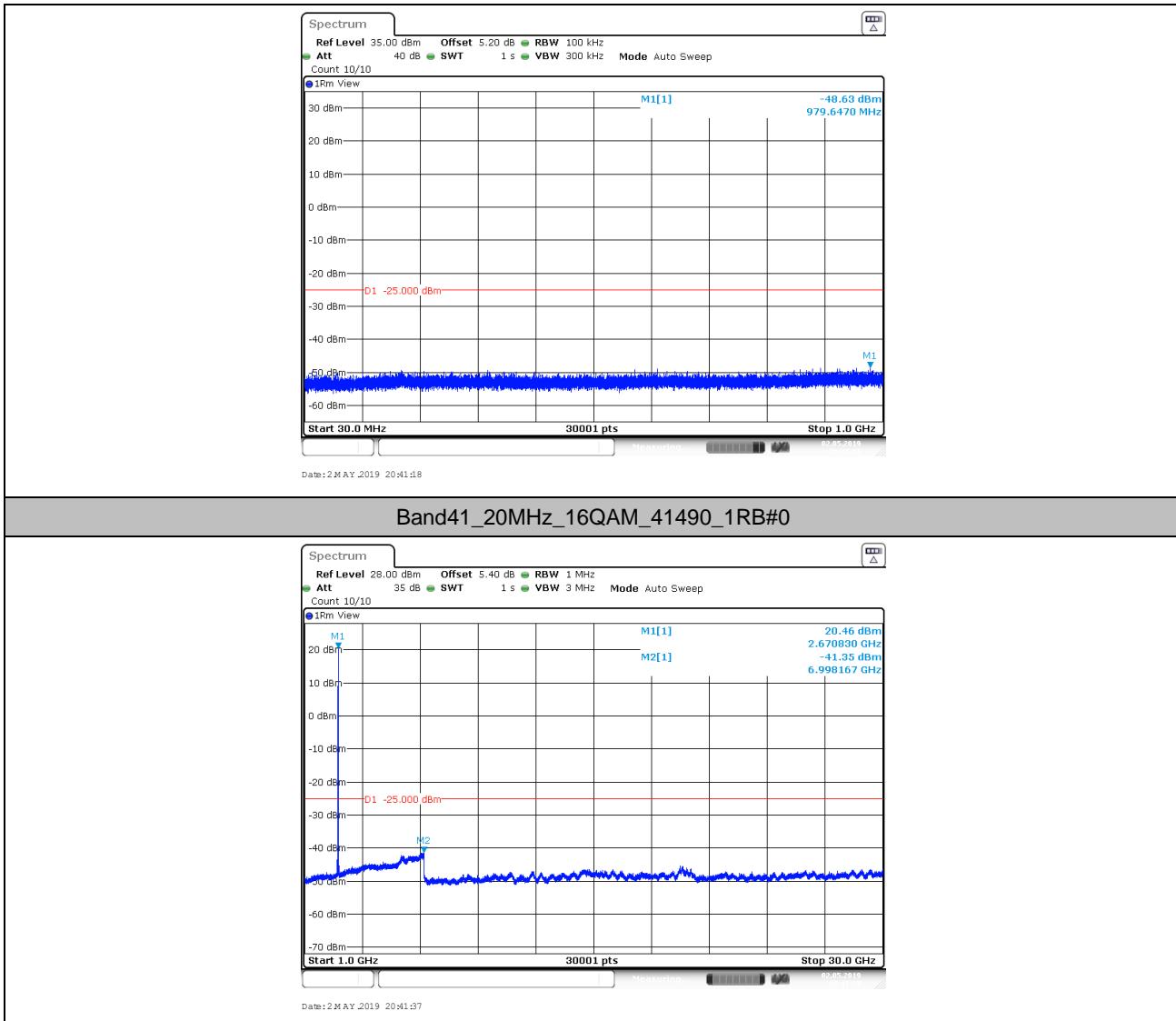
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7. Field Strength of Spurious Radiation

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 |
|-----------------|-------------|------------------|-------------|--------------|
| 52.991 | -66.27 | -25 | 41.27 | Vertical |
| 111.3802 | -65.00 | -25 | 40.00 | Vertical |
| 502.1464 | -61.97 | -25 | 36.97 | Vertical |
| 2697.254 | -48.62 | -25 | 23.62 | Vertical |
| 4607.0194 | -43.30 | -25 | 18.30 | Vertical |
| 17983.01 | -35.35 | -25 | 10.35 | Vertical |
| 46.3092 | -63.42 | -25 | 38.42 | Horizontal |
| 148.7881 | -62.68 | -25 | 37.68 | Horizontal |
| 698.9202 | -65.84 | -25 | 40.84 | Horizontal |
| 4596.0854 | -37.23 | -25 | 12.23 | Horizontal |
| 9330.6771 | -47.83 | -25 | 22.83 | Horizontal |
| 17992.872 | -35.45 | -25 | 10.45 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 70.5 | -65.59 | -25 | 40.59 | Vertical |
| 112.5477 | -64.58 | -25 | 39.58 | Vertical |
| 604.7656 | -61.81 | -25 | 36.81 | Vertical |
| 2699.3971 | -48.80 | -25 | 23.80 | Vertical |
| 5107.8032 | -43.82 | -25 | 18.82 | Vertical |
| 17990.755 | -34.86 | -25 | 9.86 | Vertical |
| 44.0961 | -63.89 | -25 | 38.89 | Horizontal |
| 150.8951 | -64.24 | -25 | 39.24 | Horizontal |
| 522.772 | -65.89 | -25 | 40.89 | Horizontal |
| 5100.3361 | -35.45 | -25 | 10.45 | Horizontal |
| 9313.4435 | -47.84 | -25 | 22.84 | Horizontal |
| 16397.883 | -35.48 | -25 | 10.48 | Horizontal |

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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 69.9179 | -66.06 | -25 | 41.06 | Vertical |
| 106.7274 | -65.04 | -25 | 40.04 | Vertical |
| 587.1107 | -62.41 | -25 | 37.41 | Vertical |
| 2698.9971 | -47.99 | -25 | 22.99 | Vertical |
| 4764.2917 | -44.44 | -25 | 19.44 | Vertical |
| 17884.251 | -36.34 | -25 | 11.34 | Vertical |
| 44.4842 | -63.67 | -25 | 38.67 | Horizontal |
| 149.1005 | -63.68 | -25 | 38.68 | Horizontal |
| 710.0884 | -65.78 | -25 | 40.78 | Horizontal |
| 2698.7064 | -36.11 | -25 | 11.11 | Horizontal |
| 7476.8823 | -47.09 | -25 | 22.09 | Horizontal |
| 16388.882 | -34.87 | -25 | 9.87 | Horizontal |

Remark:

The disturbance 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.

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 (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VL | NT | -1.30 | -0.000519 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VN | NT | 2.00 | 0.000798 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VH | NT | 6.20 | 0.002474 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VL | NT | -5.10 | -0.001967 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VN | NT | -8.70 | -0.003355 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VH | NT | -3.80 | -0.001465 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VL | NT | 7.20 | 0.002687 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VN | NT | -1.60 | -0.000597 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VH | NT | 6.10 | 0.002276 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VL | NT | 2.70 | 0.001077 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VN | NT | -0.70 | -0.000279 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VH | NT | -3.70 | -0.001476 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VL | NT | 3.70 | 0.001427 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VN | NT | 0.10 | 0.000039 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VH | NT | 7.80 | 0.003008 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VL | NT | -8.60 | -0.003209 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VN | NT | 3.50 | 0.001306 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VH | NT | 3.60 | 0.001343 | ±2.5 | PASS |

8.2. Frequency Vs Temperature

| Temperature | | | | | | | | | | |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | -30 | -6.80 | -0.002713 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | -20 | 3.10 | 0.001237 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 0 | -4.80 | -0.001915 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 10 | 3.80 | 0.001516 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 20 | 1.90 | 0.000758 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 30 | 0.80 | 0.000319 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 40 | -3.90 | -0.001556 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 50 | -5.70 | -0.002275 | ±2.5 | PASS |

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| | | | | | | | | | | |
|--------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -30 | -7.80 | -0.003008 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -20 | -8.10 | -0.003124 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 0 | -3.00 | -0.001157 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 10 | 2.60 | 0.001003 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 20 | 5.90 | 0.002275 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 30 | -6.80 | -0.002622 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 40 | -6.00 | -0.002314 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 50 | -10.40 | -0.004011 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -30 | -4.30 | -0.001604 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -20 | -5.90 | -0.002201 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 0 | -1.40 | -0.000522 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 10 | 1.30 | 0.000485 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 20 | 0.50 | 0.000187 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 30 | -9.80 | -0.003657 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 40 | 5.10 | 0.001903 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 50 | 6.00 | 0.002239 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | -30 | 3.50 | 0.001397 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | -20 | 3.20 | 0.001277 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 0 | -0.50 | -0.000200 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 10 | -7.00 | -0.002793 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 20 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 30 | 4.50 | 0.001796 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 40 | -4.00 | -0.001596 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 50 | -4.90 | -0.001955 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | -30 | -5.70 | -0.002198 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | -20 | -1.50 | -0.000578 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 0 | 1.40 | 0.000540 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 10 | 8.20 | 0.003162 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 20 | 7.00 | 0.002700 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 30 | 5.60 | 0.002160 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 40 | -6.40 | -0.002468 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 50 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | -30 | -0.60 | -0.000224 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | -20 | 0.60 | 0.000224 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 0 | 4.00 | 0.001493 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 10 | -0.20 | -0.000075 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 20 | -2.00 | -0.000746 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 30 | -4.80 | -0.001791 | ±2.5 | PASS |

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| | | | | | | | | | | |
|--------|-------|-------|-------|--------|----|----|------|----------|------|------|
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 40 | 0.90 | 0.000336 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 50 | 5.70 | 0.002127 | ±2.5 | PASS |

The End

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