



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 | 22.88 | 21.57 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#12 | 23.10 | 21.79 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#24 | 22.74 | 21.43 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#0 | 21.86 | 20.55 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#6 | 21.96 | 20.65 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 12RB#13 | 21.91 | 20.60 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 21.97 | 20.66 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#0 | 23.08 | 21.77 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#12 | 23.42 | 22.11 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#24 | 23.15 | 21.84 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#0 | 22.28 | 20.97 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#6 | 22.29 | 20.98 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 12RB#13 | 22.17 | 20.86 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 22.22 | 20.91 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#0 | 23.19 | 21.88 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#12 | 23.50 | 22.19 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#24 | 23.32 | 22.01 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#0 | 22.39 | 21.08 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#6 | 22.49 | 21.18 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 12RB#13 | 22.34 | 21.03 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 22.34 | 21.03 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#0 | 21.42 | 20.11 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#12 | 21.61 | 20.30 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#24 | 21.37 | 20.06 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#0 | 20.85 | 19.54 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#6 | 20.94 | 19.63 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 12RB#13 | 20.96 | 19.65 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 20.75 | 19.44 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#0 | 21.62 | 20.31 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#12 | 21.83 | 20.52 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#24 | 21.75 | 20.44 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#0 | 21.25 | 19.94 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#6 | 21.03 | 19.72 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 12RB#13 | 21.12 | 19.81 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 20.76 | 19.45 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#0 | 21.71 | 20.40 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#12 | 22.12 | 20.81 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#24 | 21.93 | 20.62 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#0 | 21.18 | 19.87 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#6 | 21.34 | 20.03 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 12RB#13 | 21.19 | 19.88 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 20.75 | 19.44 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#0 | 22.95 | 21.64 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#24 | 23.51 | 22.20 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#49 | 23.04 | 21.73 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#0 | 22.14 | 20.83 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#12 | 22.10 | 20.79 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 25RB#25 | 22.12 | 20.81 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 22.06 | 20.75 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#0 | 23.28 | 21.97 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#24 | 23.87 | 22.56 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#49 | 23.25 | 21.94 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#0 | 22.46 | 21.15 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#12 | 22.33 | 21.02 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 25RB#25 | 22.15 | 20.84 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 22.30 | 20.99 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#0 | 23.18 | 21.87 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#24 | 23.66 | 22.35 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#49 | 23.03 | 21.72 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#0 | 21.71 | 20.40 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#12 | 22.47 | 21.16 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 25RB#25 | 22.27 | 20.96 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 22.30 | 20.99 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0 | 21.65 | 20.34 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 21.82 | 20.51 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 21.45 | 20.14 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 27RB#0 | 20.76 | 19.45 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0 | 21.68 | 20.37 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 22.09 | 20.78 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 21.48 | 20.17 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 27RB#0 | 20.78 | 19.47 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0 | 21.72 | 20.41 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 22.26 | 20.95 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 21.94 | 20.63 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 27RB#0 | 20.75 | 19.44 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#0 | 22.90 | 21.59 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 15MHz | QPSK | 39725 | 1RB#38 | 23.12 | 21.81 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#74 | 22.84 | 21.53 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#0 | 21.74 | 20.43 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#18 | 21.78 | 20.47 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 36RB#39 | 21.77 | 20.46 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 21.76 | 20.45 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#0 | 22.79 | 21.48 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#38 | 23.10 | 21.79 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#74 | 22.90 | 21.59 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#0 | 22.34 | 21.03 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#18 | 22.23 | 20.92 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 36RB#39 | 22.10 | 20.79 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 21.75 | 20.44 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#0 | 23.07 | 21.76 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#38 | 23.45 | 22.14 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#74 | 23.21 | 21.90 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#0 | 22.21 | 20.90 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#18 | 22.51 | 21.20 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 36RB#39 | 22.23 | 20.92 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 21.71 | 20.40 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0 | 21.29 | 19.98 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38 | 21.65 | 20.34 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74 | 21.33 | 20.02 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 27RB#0 | 20.72 | 19.41 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0 | 21.73 | 20.42 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38 | 21.57 | 20.26 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74 | 21.47 | 20.16 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 27RB#0 | 20.74 | 19.43 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0 | 21.58 | 20.27 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38 | 22.06 | 20.75 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74 | 21.60 | 20.29 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 27RB#0 | 20.75 | 19.44 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#0 | 22.77 | 21.46 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#49 | 23.33 | 22.02 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#99 | 22.74 | 21.43 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#0 | 22.10 | 20.79 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#25 | 22.04 | 20.73 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 50RB#50 | 21.90 | 20.59 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 21.72 | 20.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#0 | 22.72 | 21.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#49 | 23.70 | 22.39 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#99 | 23.13 | 21.82 | 33.00 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 20MHz | QPSK | 40620 | 50RB#0 | 22.36 | 21.05 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#25 | 21.75 | 20.44 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 50RB#50 | 21.72 | 20.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 21.72 | 20.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#0 | 23.14 | 21.83 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#49 | 23.40 | 22.09 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#99 | 22.94 | 21.63 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#0 | 22.28 | 20.97 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#25 | 22.17 | 20.86 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 50RB#50 | 22.20 | 20.89 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 21.80 | 20.49 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0 | 21.34 | 20.03 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49 | 21.70 | 20.39 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99 | 21.23 | 19.92 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 20.70 | 19.39 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0 | 21.72 | 20.41 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49 | 22.01 | 20.70 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99 | 21.43 | 20.12 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 20.71 | 19.40 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0 | 21.76 | 20.45 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49 | 22.13 | 20.82 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99 | 21.42 | 20.11 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 20.78 | 19.47 | 33.00 | PASS |

Remark:

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

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

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

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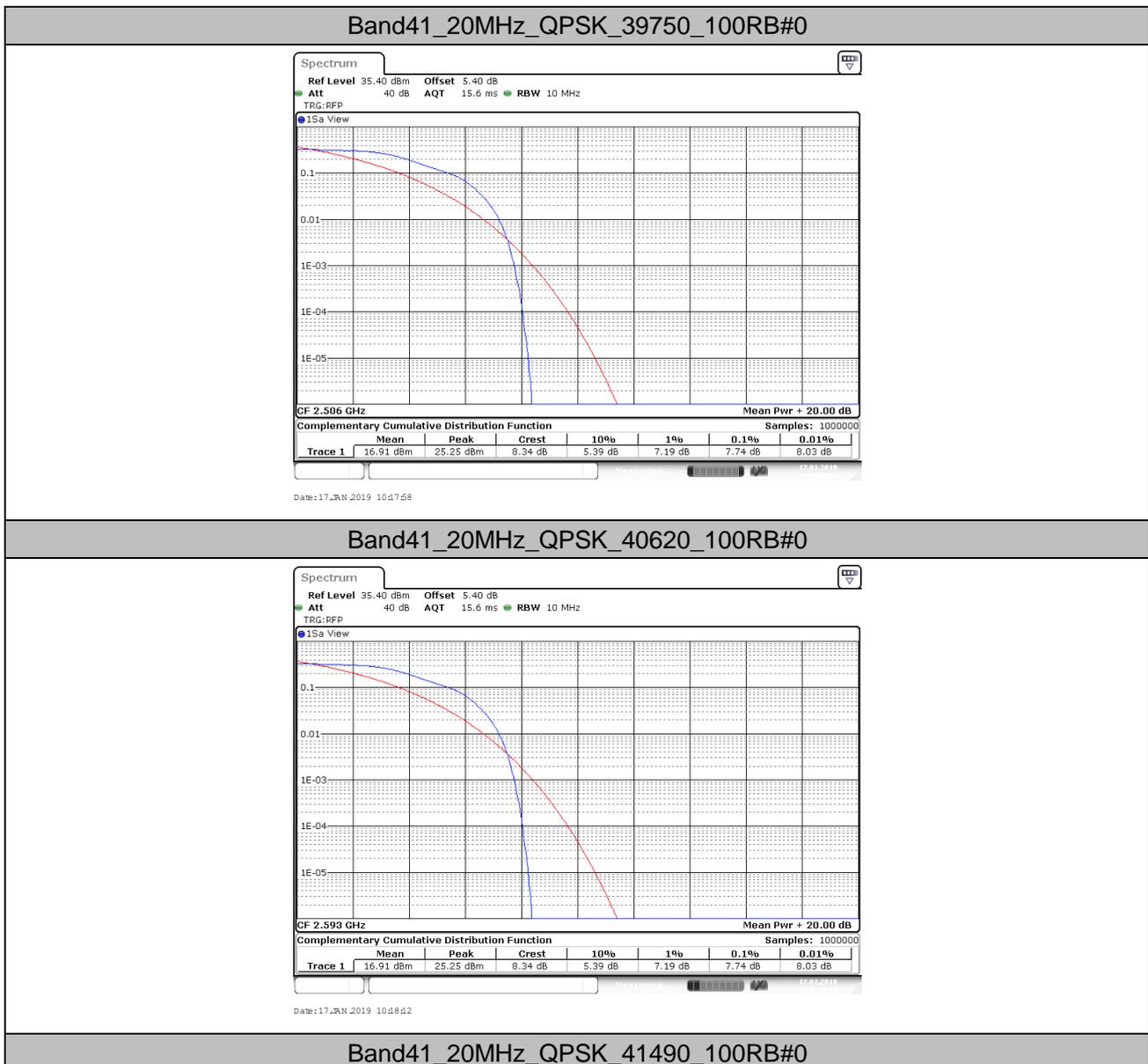


2. Peak-to-Average Ratio(CCDF)

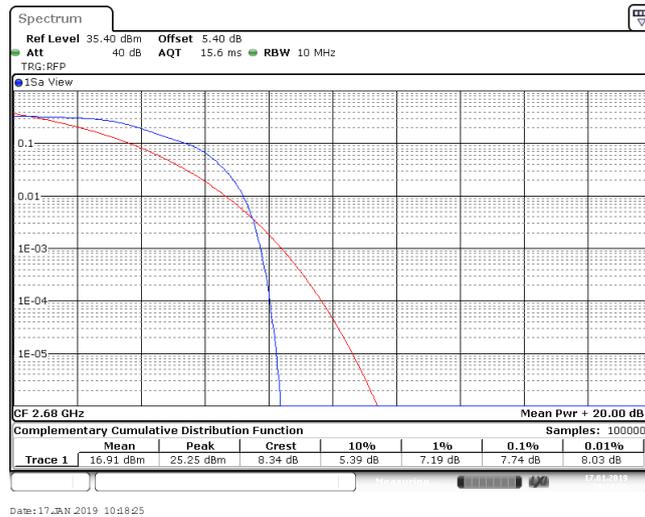
2.1. Test Result

| 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 | 7.74 | 13 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 7.74 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 7.74 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 7.74 | 13 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 7.74 | 13 | PASS |

2.2. Test Plots

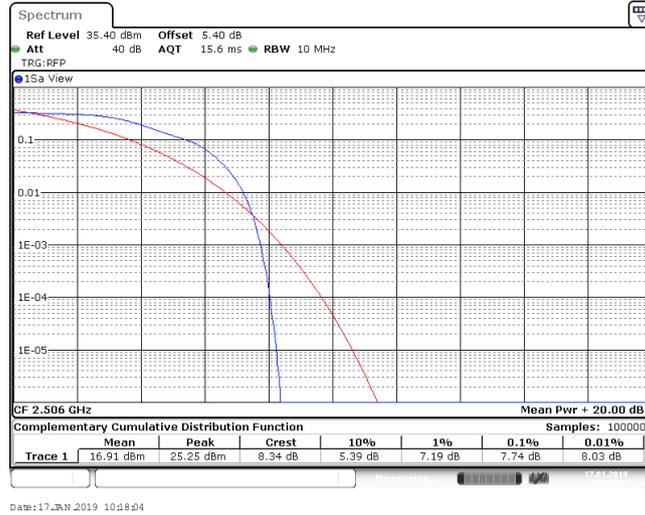


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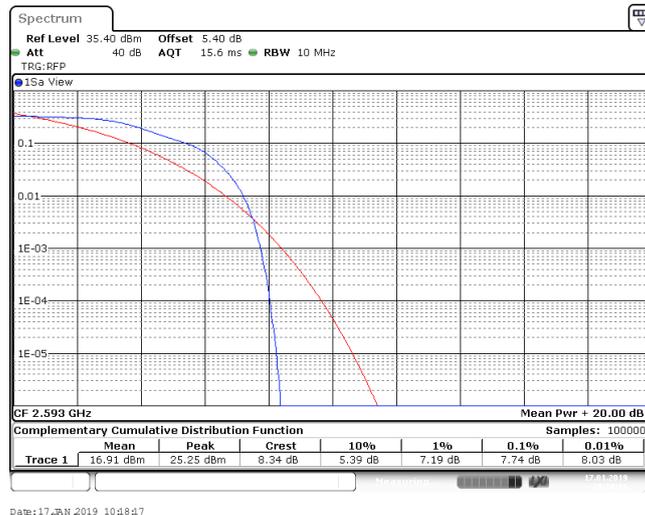
Date: 17 JAN 2019 10:18:25

Band41_20MHz_16QAM_39750_27RB#0



Date: 17 JAN 2019 10:18:04

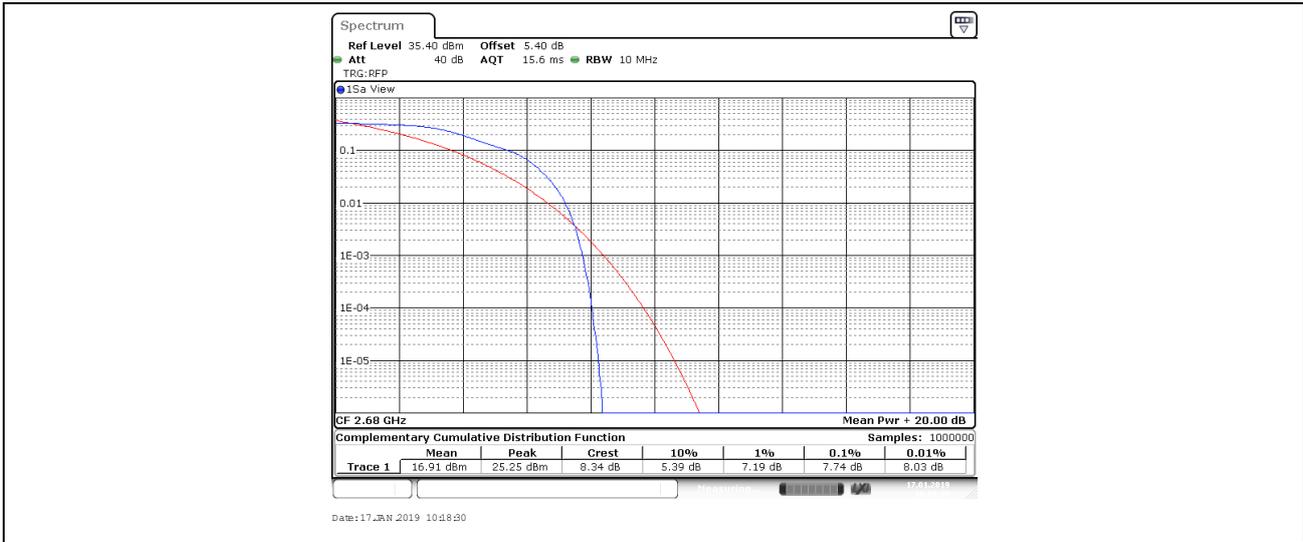
Band41_20MHz_16QAM_40620_27RB#0



Date: 17 JAN 2019 10:18:17

Band41_20MHz_16QAM_41490_27RB#0

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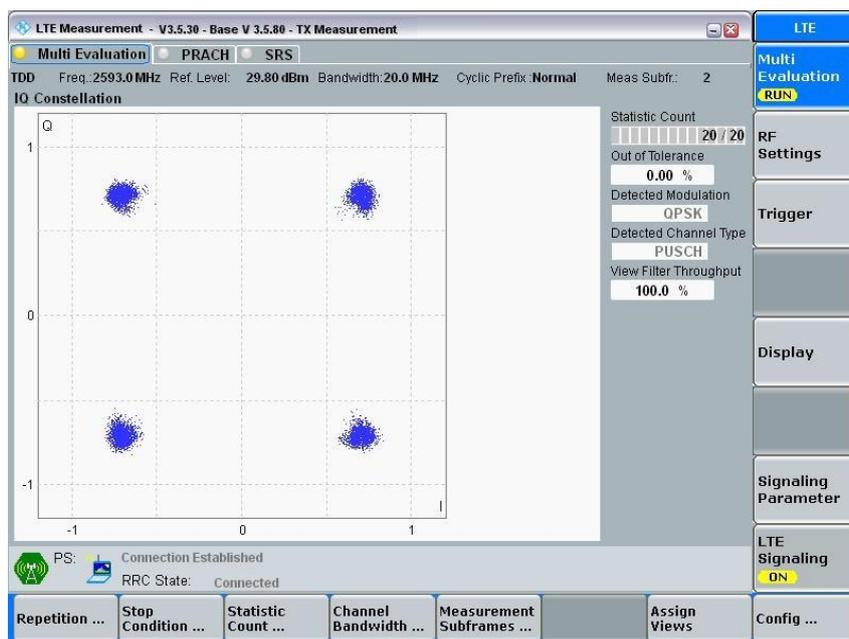
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3. Modulation Characteristics

3.1. Test BAND = LTE BAND41

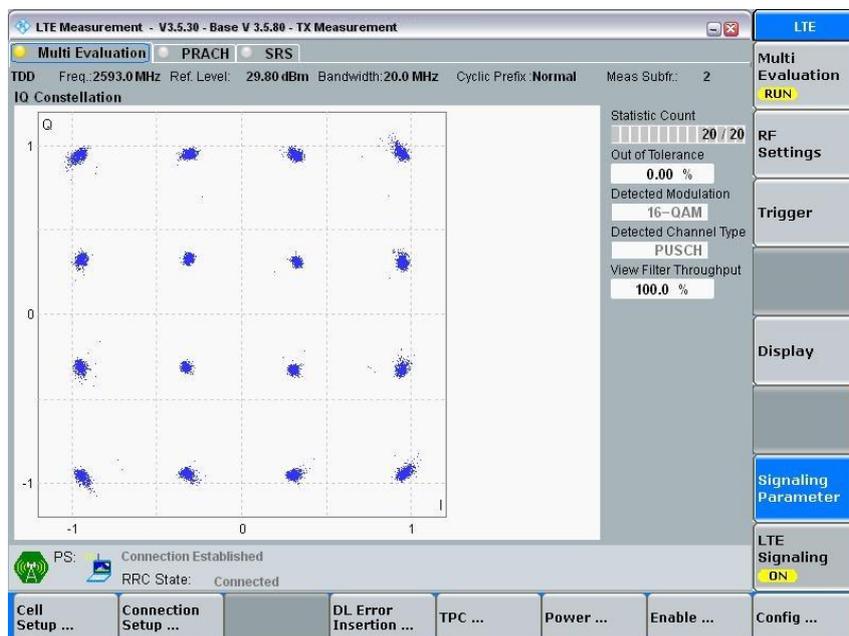
3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH

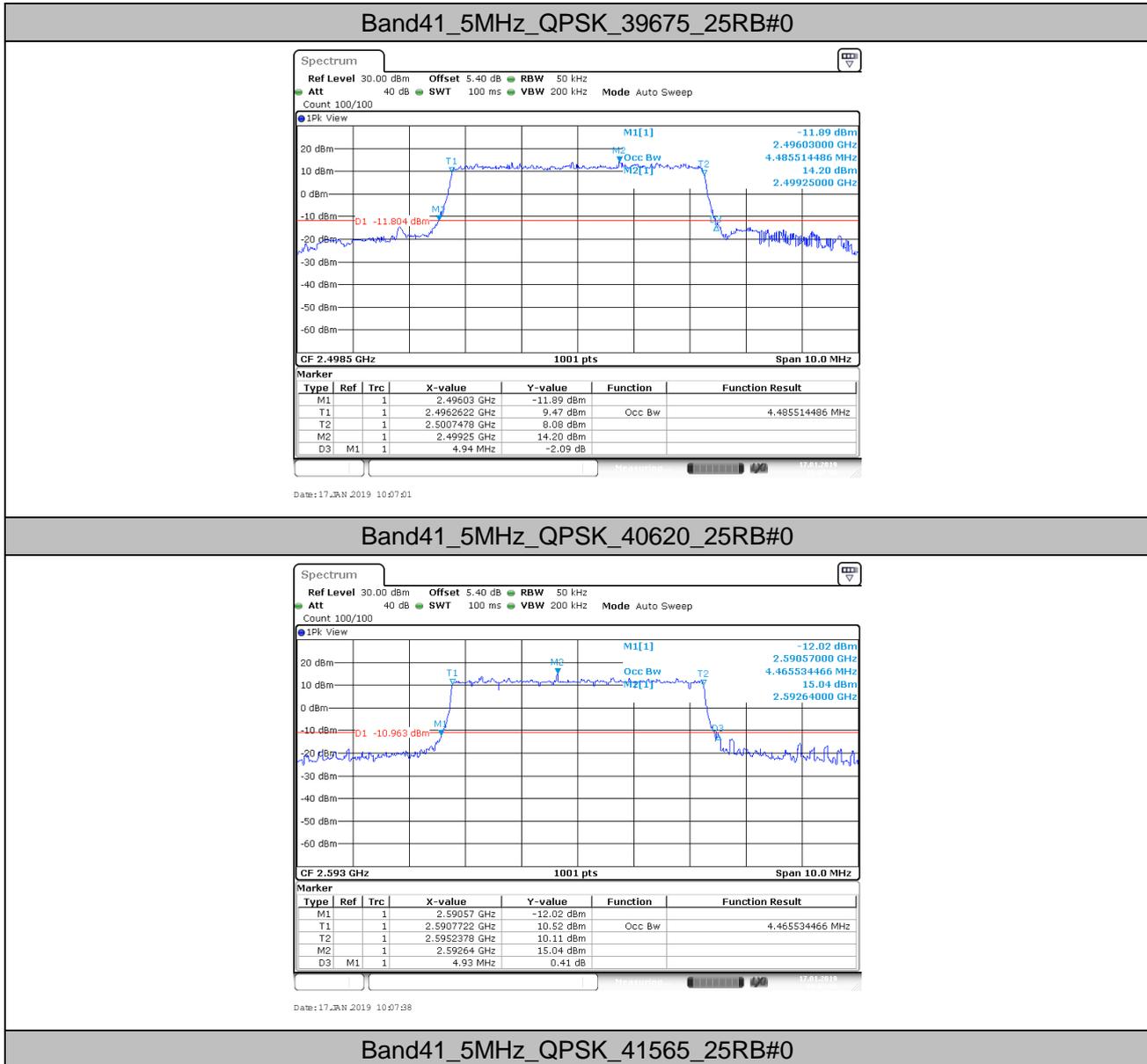


4. 26dB Bandwidth and Occupied Bandwidth

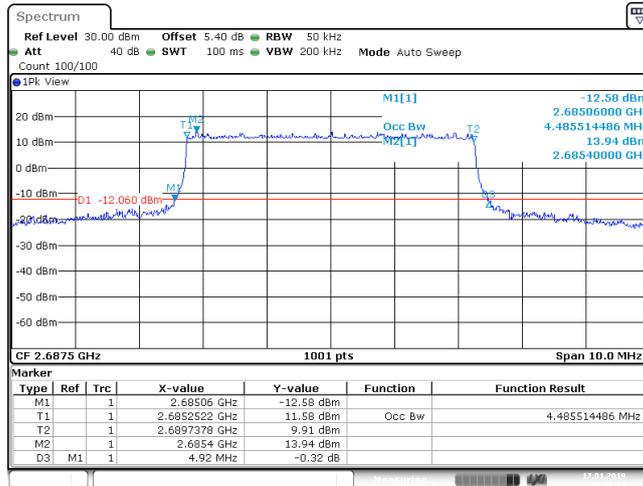
4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 4.486 | 4.940 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 4.466 | 4.930 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 4.486 | 4.920 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 4.476 | 5.050 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 4.466 | 4.930 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 8.931 | 10.580 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 8.951 | 10.020 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 8.931 | 9.840 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 27RB#0 | 4.875 | 5.960 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 27RB#0 | 4.875 | 5.960 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 27RB#0 | 4.875 | 5.760 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 13.516 | 17.610 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 13.457 | 17.040 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 13.427 | 15.090 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 27RB#0 | 5.185 | 6.870 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 27RB#0 | 5.185 | 7.020 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 27RB#0 | 5.155 | 7.770 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 17.902 | 19.480 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 17.862 | 20.080 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 17.862 | 19.440 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | 5.110 | 6.474 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | 5.195 | 6.593 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | 5.274 | 6.953 | PASS |

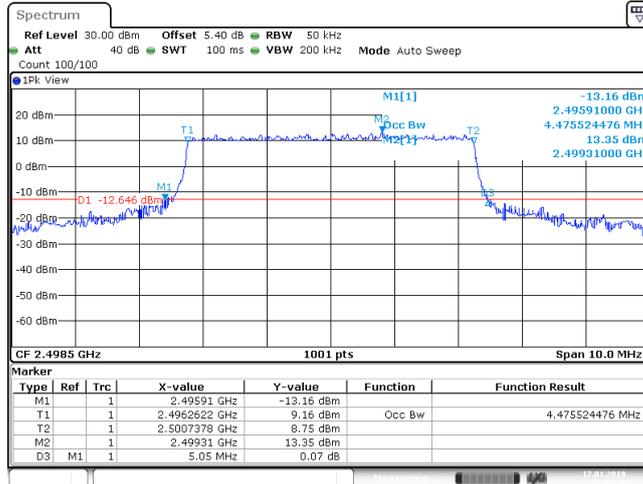
4.2. Test Plots



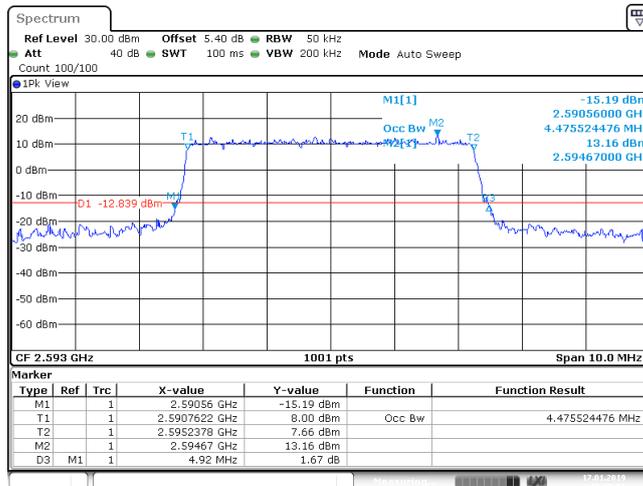
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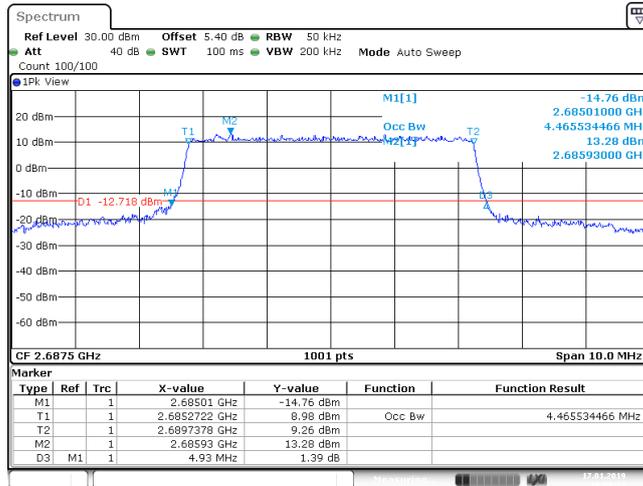
Band41_5MHz_16QAM_39675_25RB#0



Band41_5MHz_16QAM_40620_25RB#0

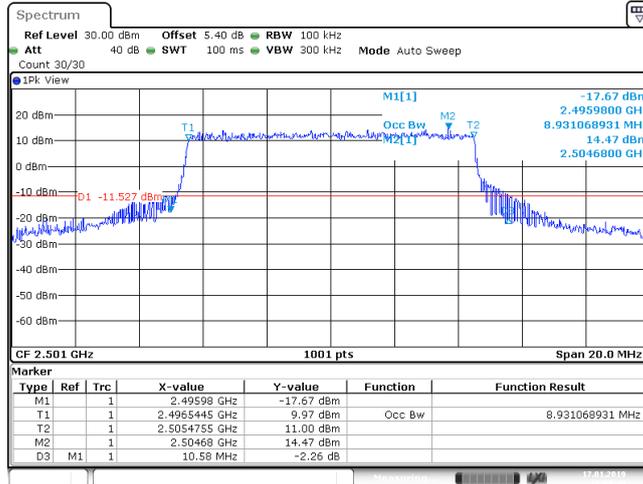


Band41_5MHz_16QAM_41565_25RB#0



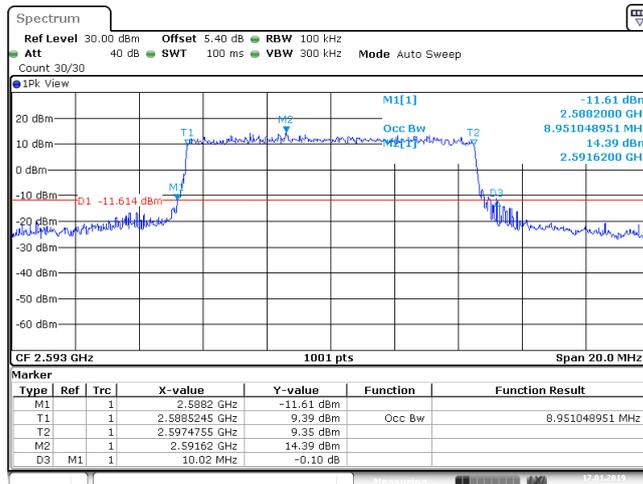
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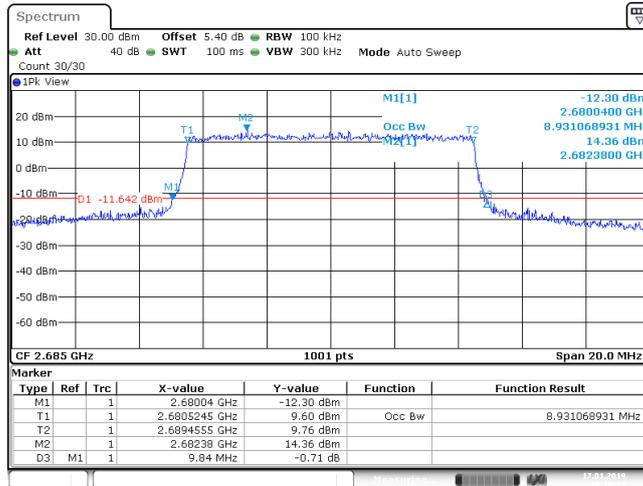
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Band41_10MHz_QPSK_40620_50RB#0



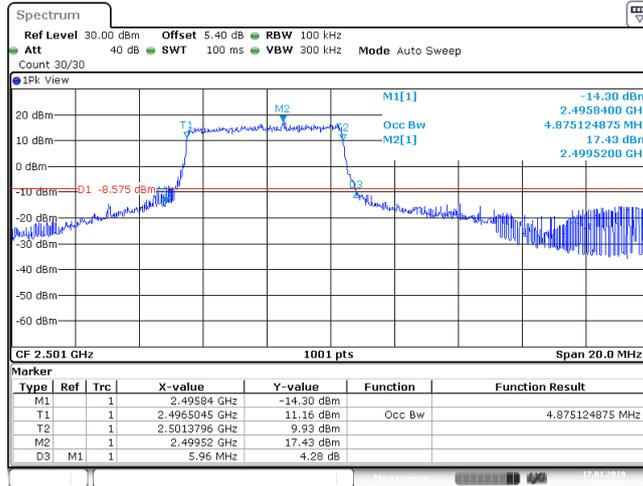
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Band41_10MHz_QPSK_41540_50RB#0



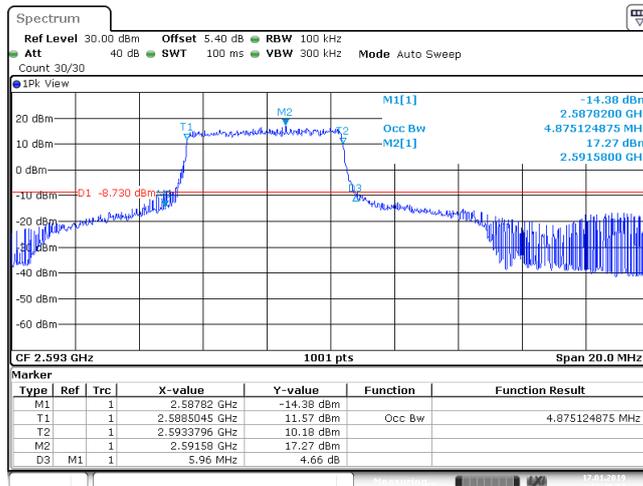
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Band41_10MHz_16QAM_39700_27RB#0



Date: 17 JAN 2019 12:48:31

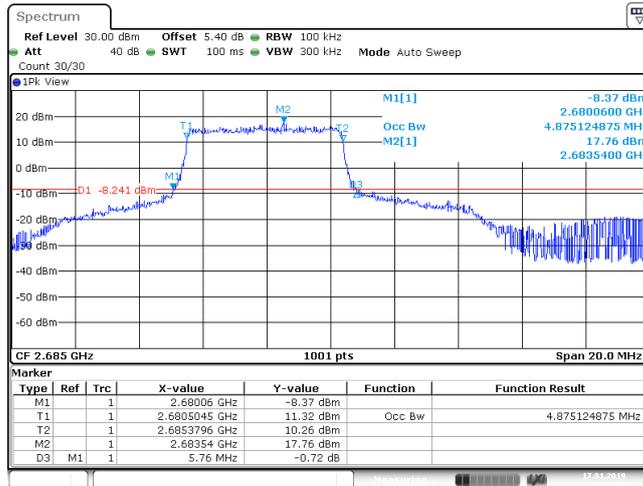
Band41_10MHz_16QAM_40620_27RB#0



Date: 17 JAN 2019 12:48:53

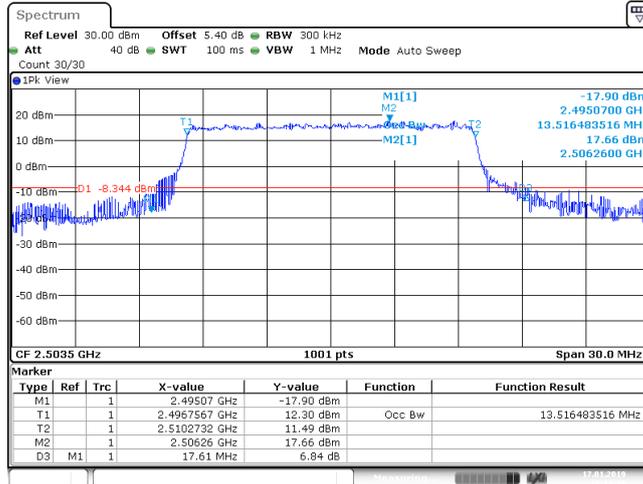
Band41_10MHz_16QAM_41540_27RB#0

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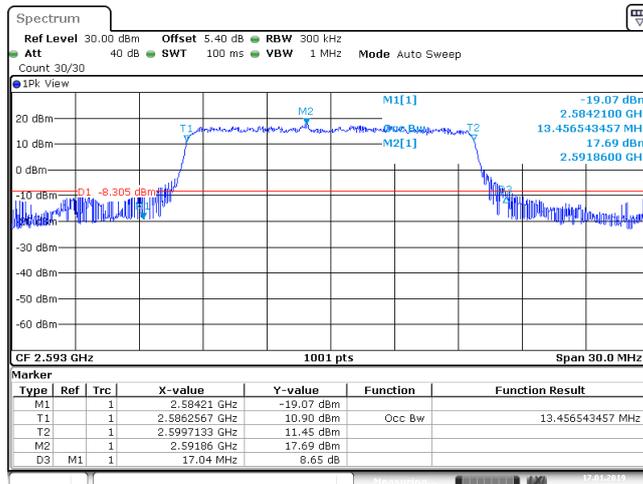
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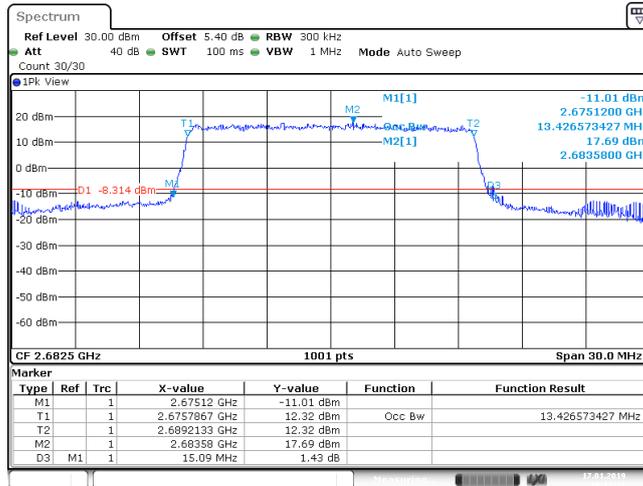
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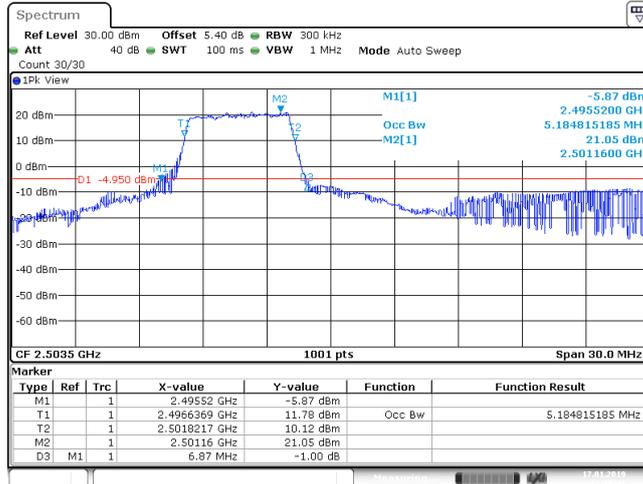


Date: 17 JAN 2019 10:11:59

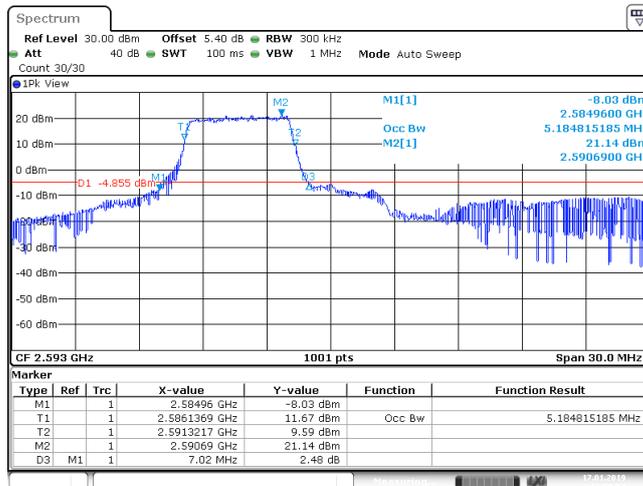
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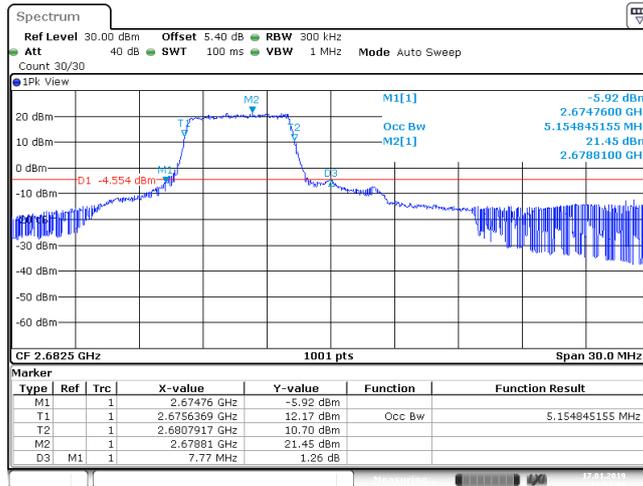
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Band41_15MHz_16QAM_40620_27RB#0

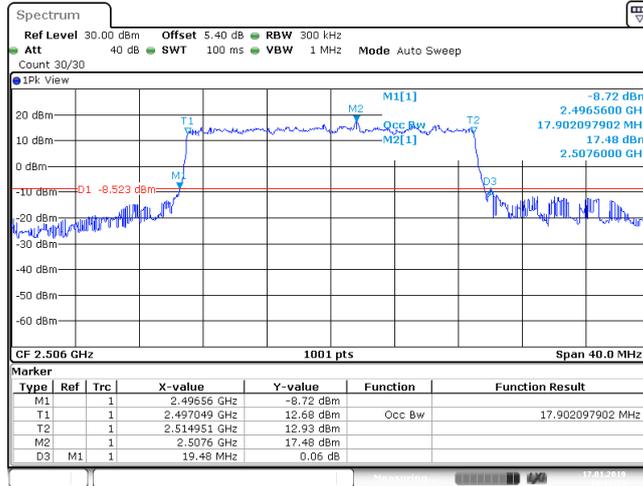


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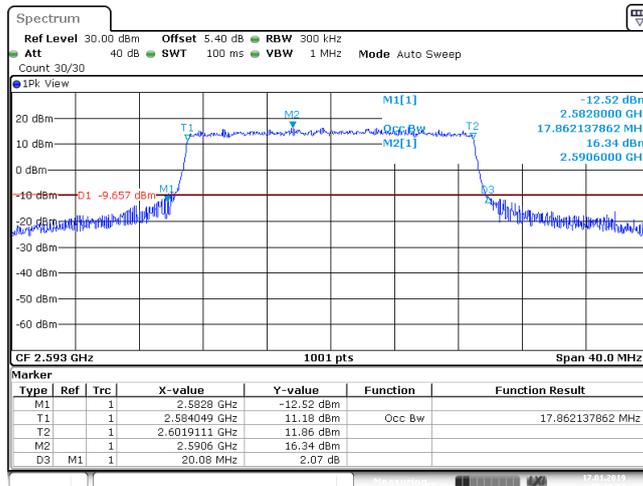
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Band41_20MHz_QPSK_39750_100RB#0



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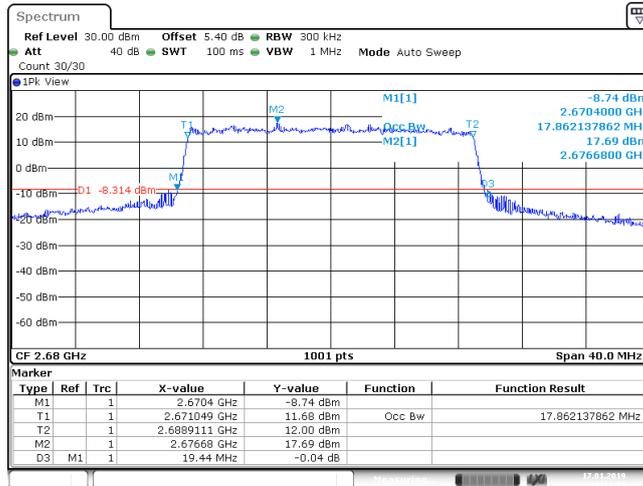
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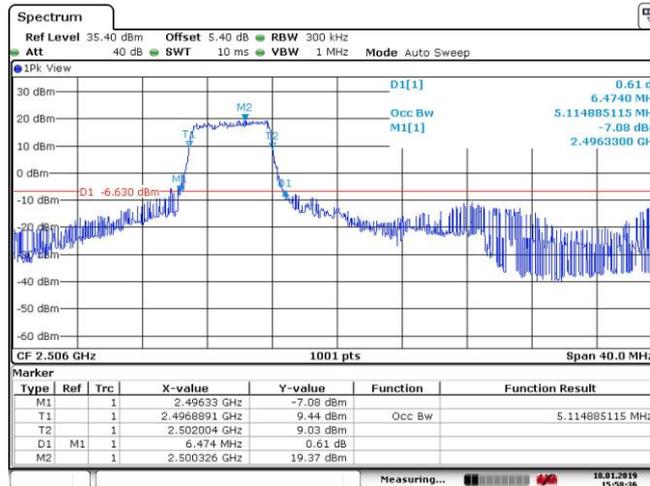
Band41_20MHz_QPSK_41490_100RB#0

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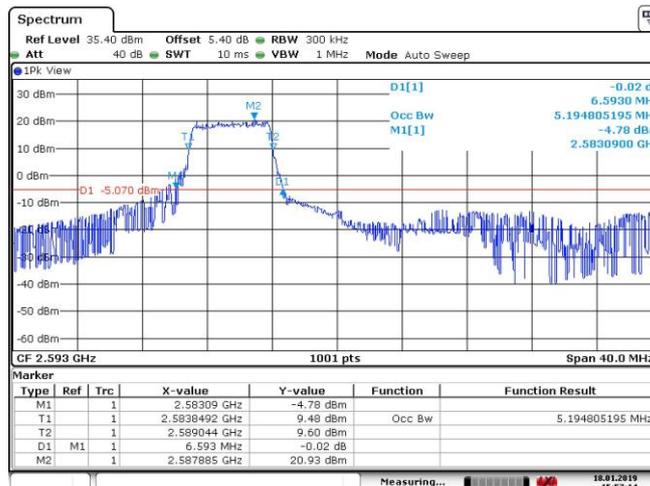
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Band41_20MHz_16QAM_39750_27RB#0



Date: 18 JAN 2019 15:58:36

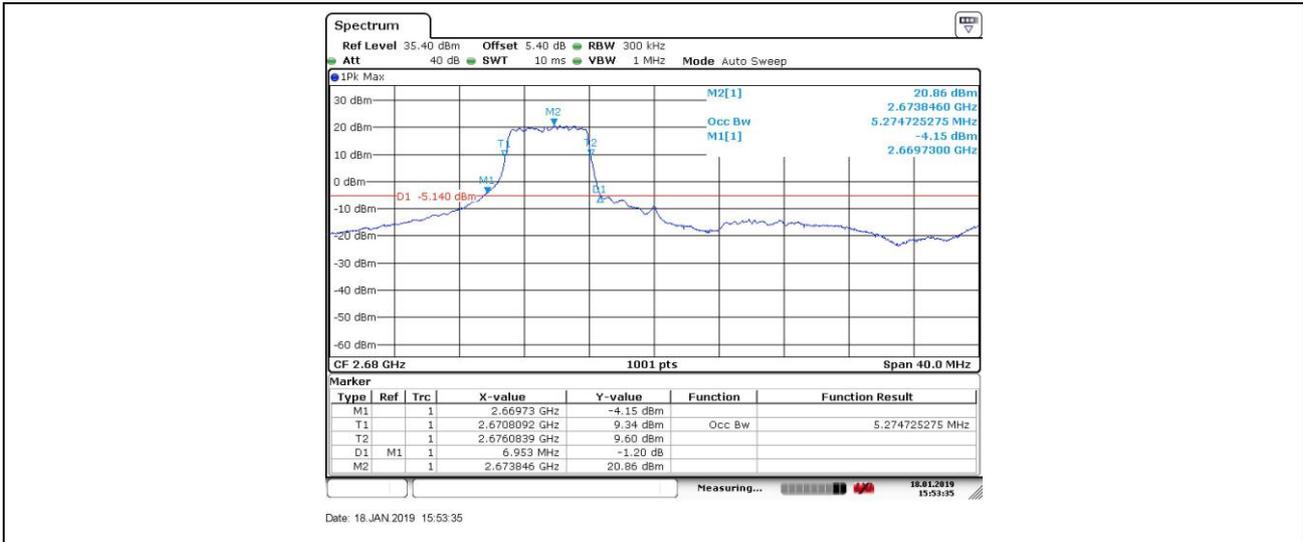
Band41_20MHz_16QAM_40620_27RB#0



Date: 18 JAN 2019 15:57:14

Band41_20MHz_16QAM_41490_27RB#0

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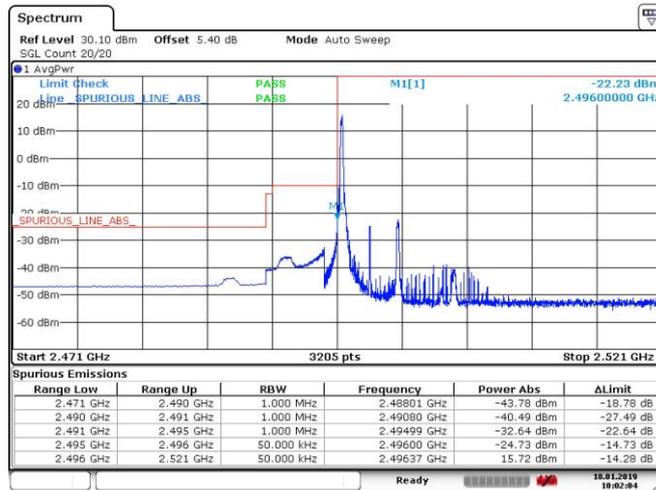


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5. Band Edge Compliance

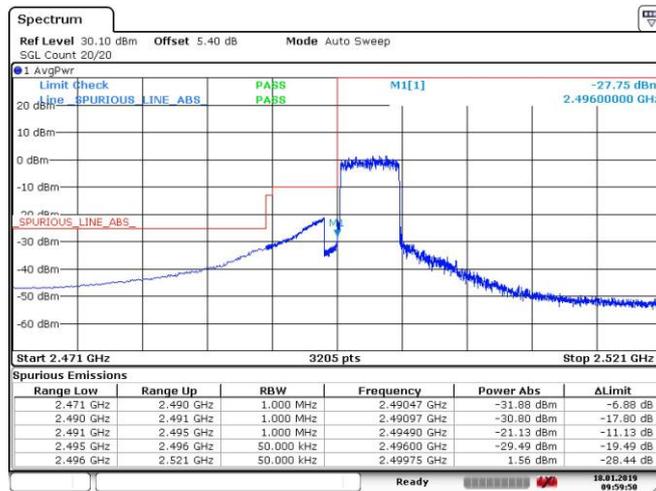
5.1. Test Plots

BAND 41_5MHz_QPSK_39675_1RB#0



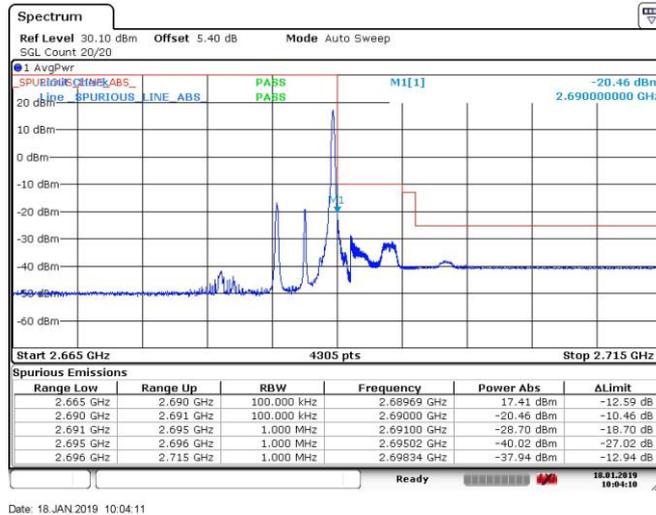
Date: 18 JAN 2019 10:02:04

BAND 41_5MHz_QPSK_39675_25RB#0

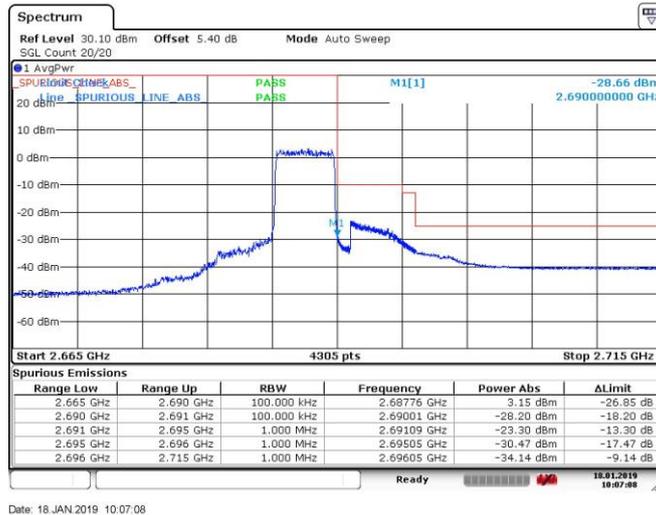


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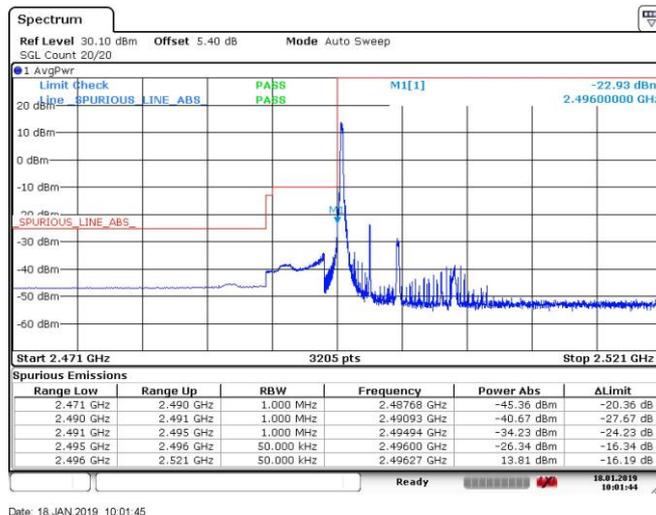
BAND 41_5MHz_QPSK_41565_1RB#24



BAND 41_5MHz_QPSK_41565_25RB#0

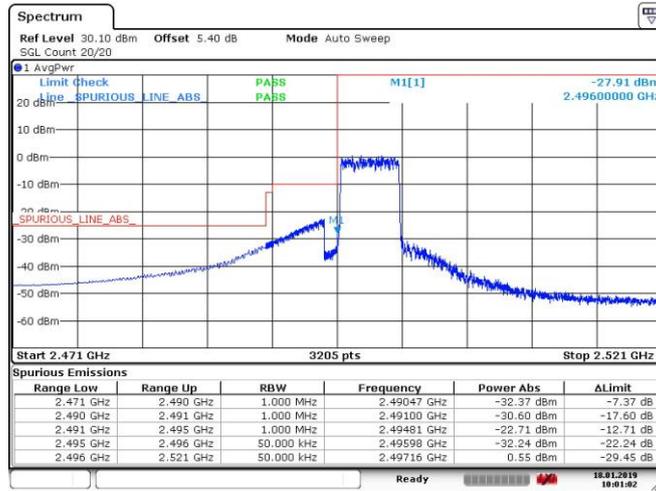


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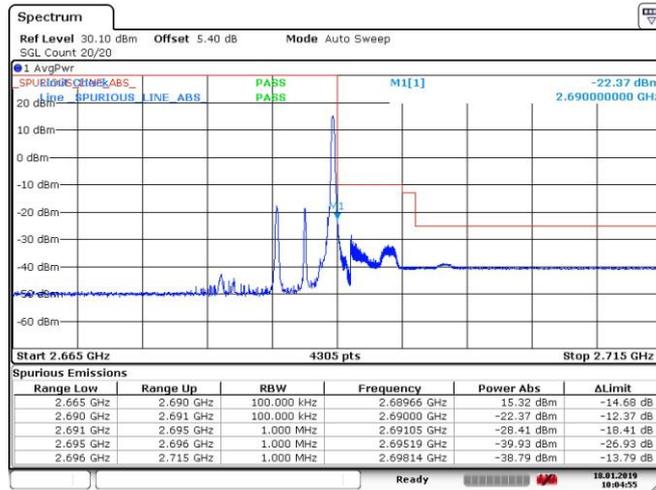
BAND 41_5MHz_16QAM_39675_25RB#0

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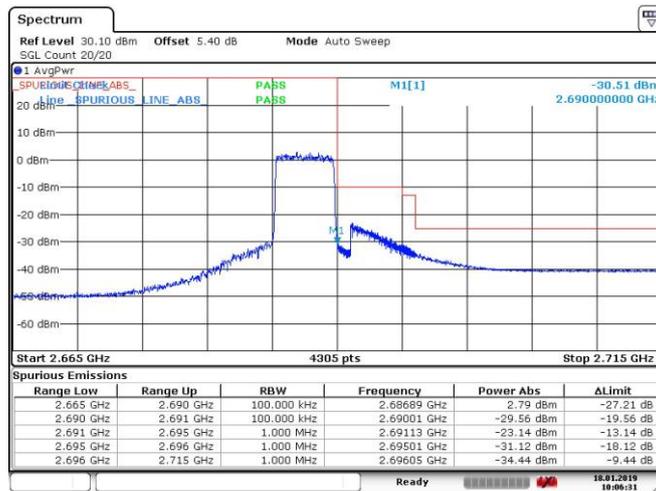
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BAND 41_5MHz_16QAM_41565_1RB#24



Date: 18 JAN 2019 10:04:55

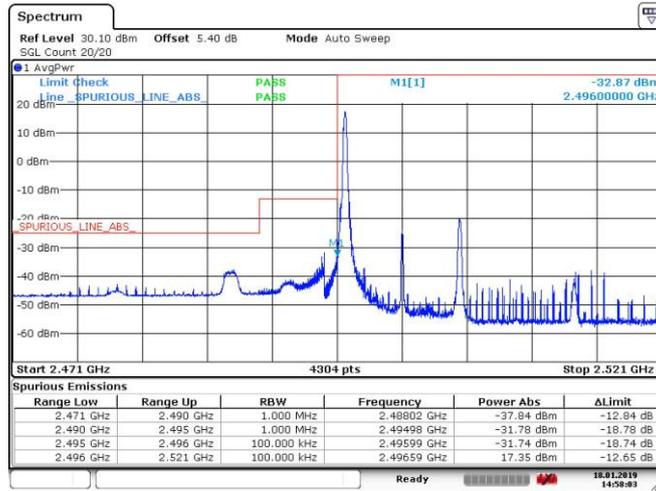
BAND 41_5MHz_16QAM_41565_25RB#0



Date: 18 JAN 2019 10:06:32

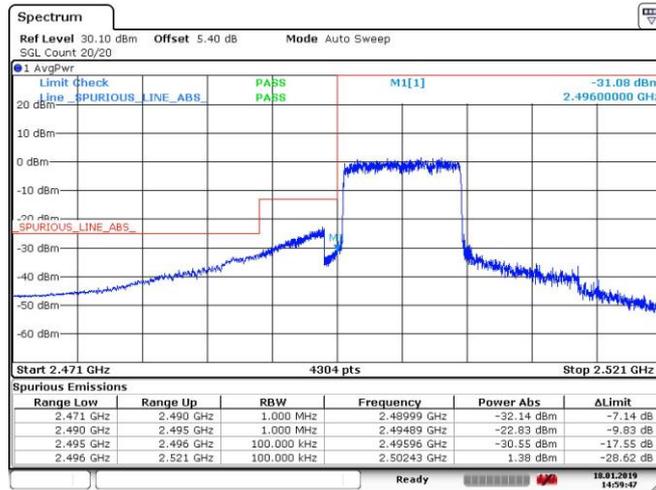
BAND 41_10MHz_QPSK_39700_1RB#0

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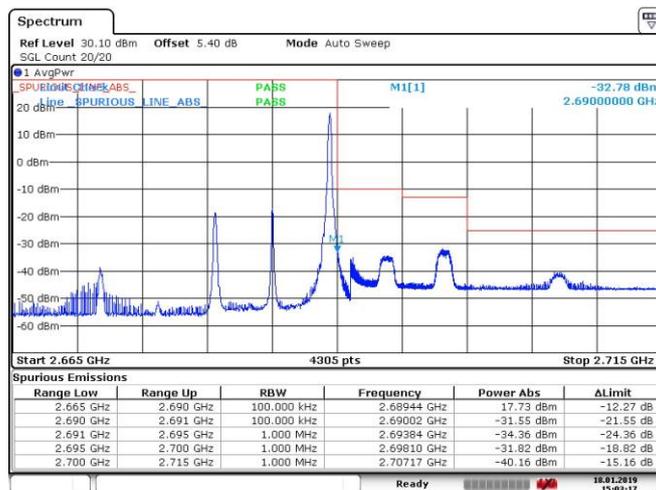
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BAND 41_10MHz_QPSK_39700_50RB#0



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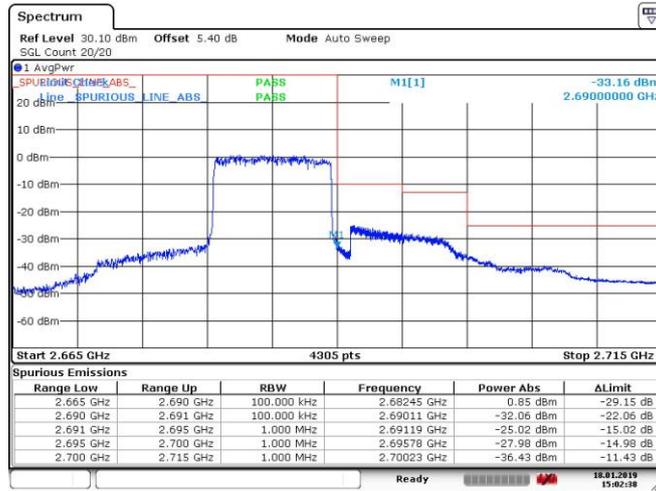
BAND 41_10MHz_QPSK_41540_1RB#49



Date: 18 JAN 2019 15:03:17

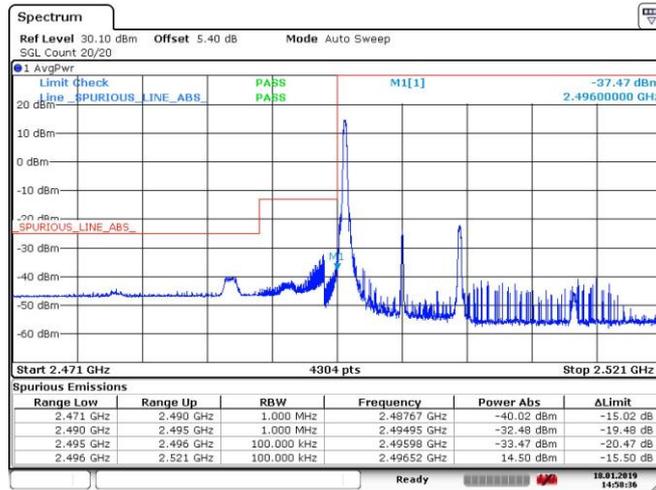
BAND 41_10MHz_QPSK_41540_50RB#0

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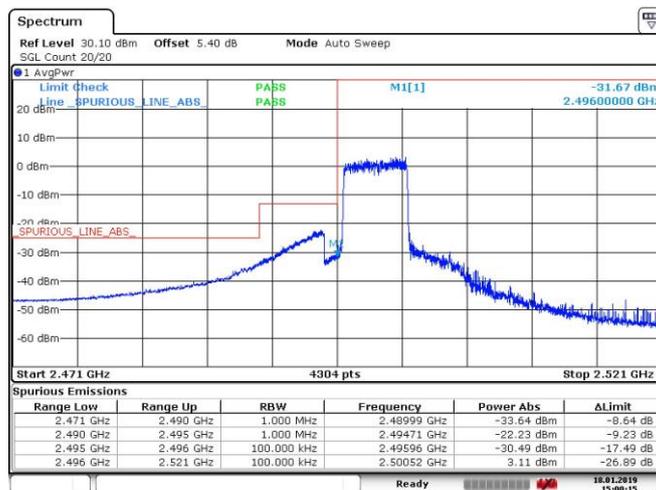
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BAND 41_10MHz_16QAM_39700_1RB#0



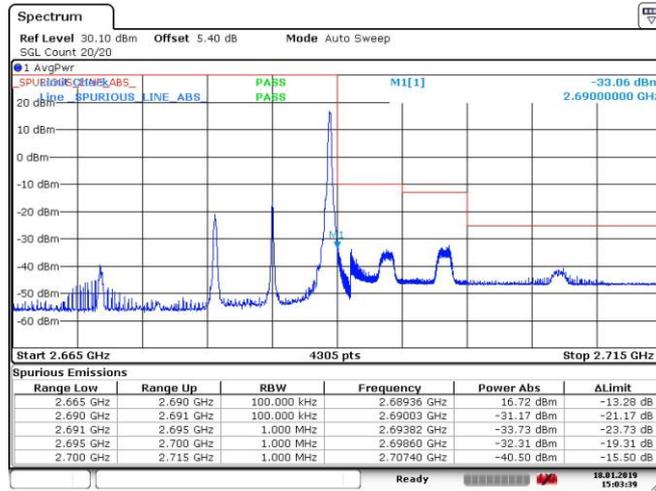
Date: 18 JAN 2019 14:58:37

BAND 41_10MHz_16QAM_39700_27RB#0



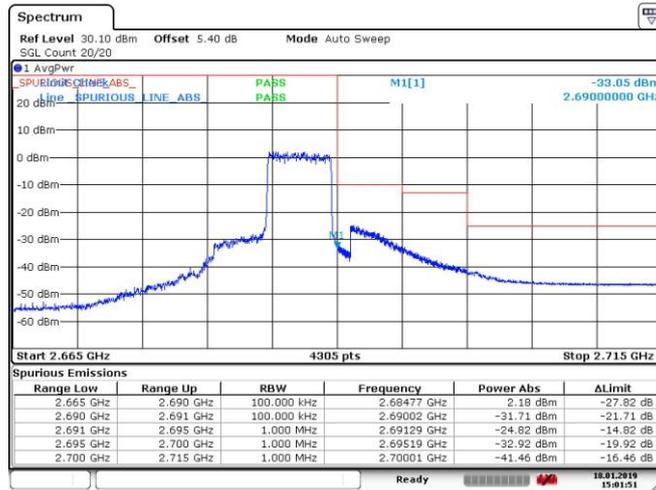
Date: 18 JAN 2019 15:00:15

BAND 41_10MHz_16QAM_41540_1RB#49



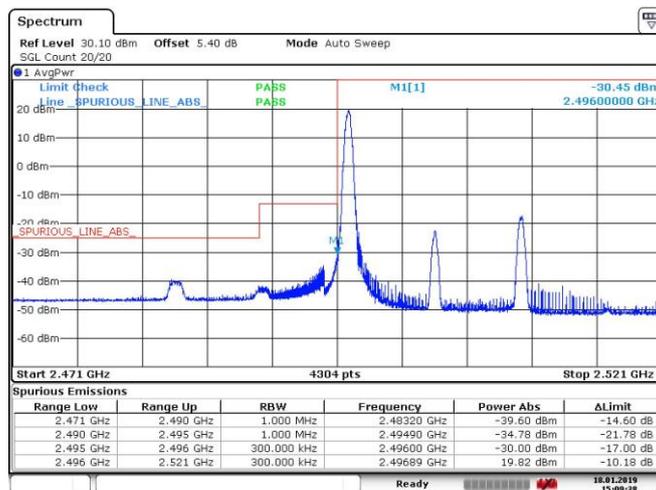
Date: 18 JAN 2019 15:03:39

BAND 41_10MHz_16QAM_41540_27RB#23



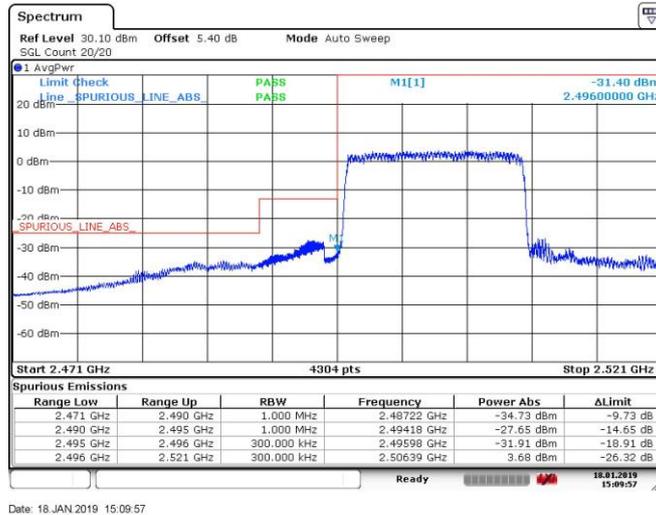
Date: 18 JAN 2019 15:01:51

BAND 41_15MHz_QPSK_39725_1RB#0



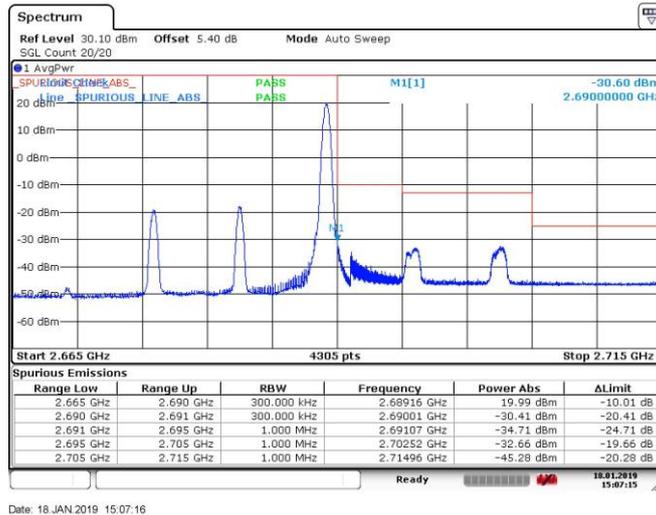
Date: 18 JAN 2019 15:09:38

BAND 41_15MHz_QPSK_39725_75RB#0



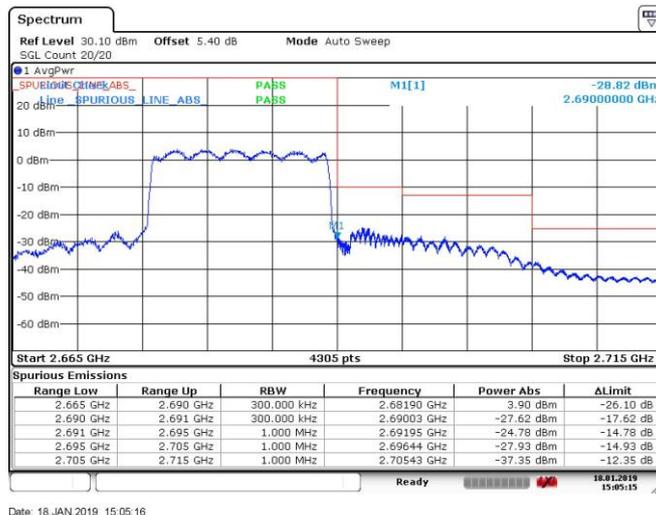
Date: 18 JAN 2019 15:09:57

BAND 41_15MHz_QPSK_41515_1RB#74



Date: 18 JAN 2019 15:07:16

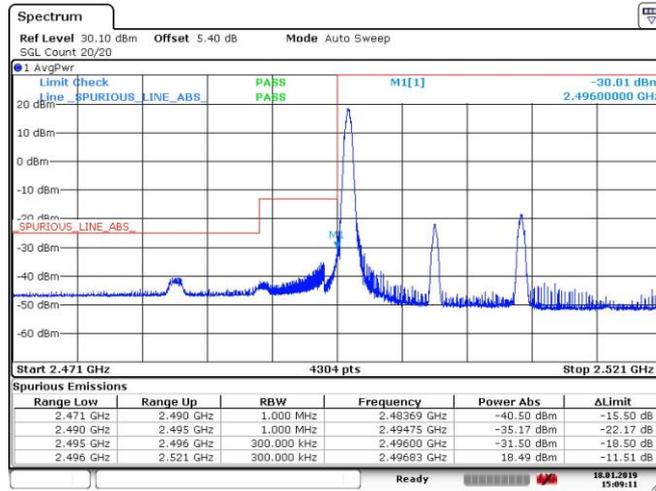
BAND 41_15MHz_QPSK_41515_75RB#0



Date: 18 JAN 2019 15:05:16

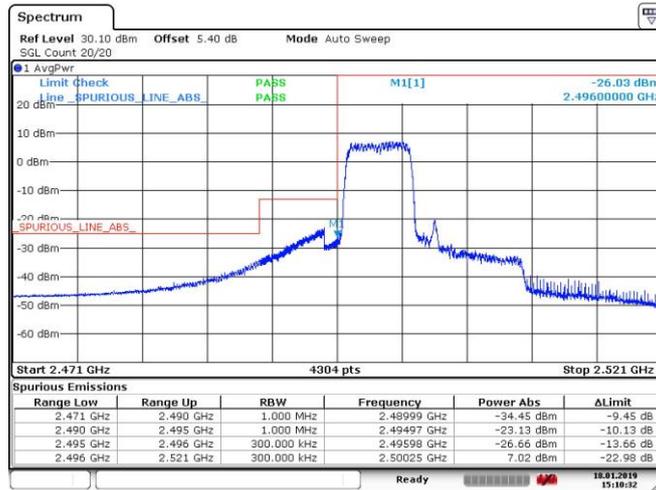
BAND 41_15MHz_16QAM_39725_1RB#0

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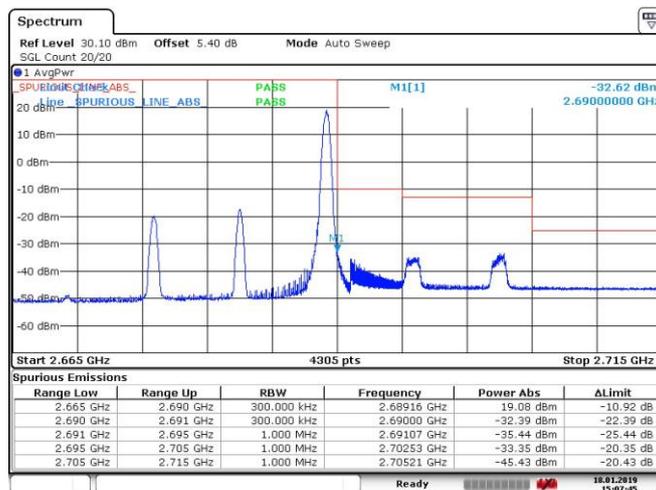
Date: 18 JAN 2019 15:09:11

BAND 41_15MHz_16QAM_39725_27RB#0



Date: 18 JAN 2019 15:10:33

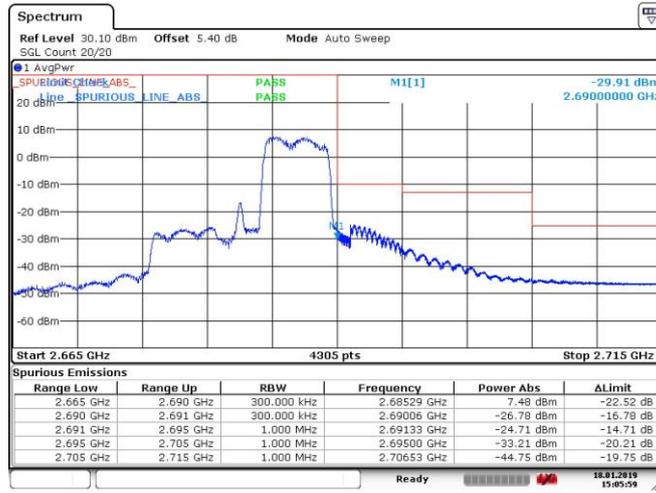
BAND 41_15MHz_16QAM_41515_1RB#74



Date: 18 JAN 2019 15:07:45

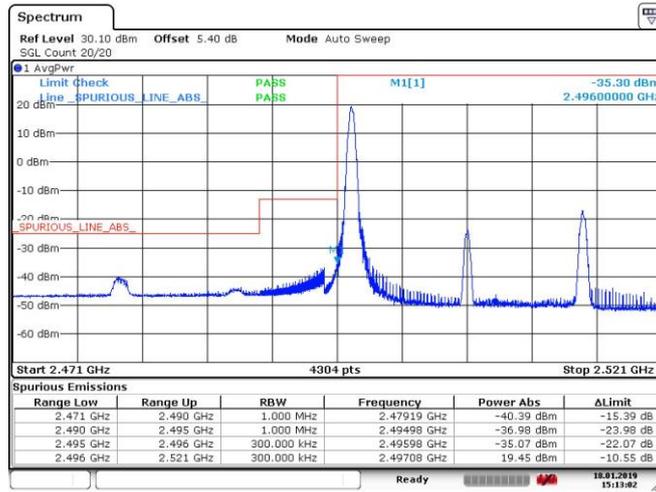
BAND 41_15MHz_16QAM_41515_27RB#48

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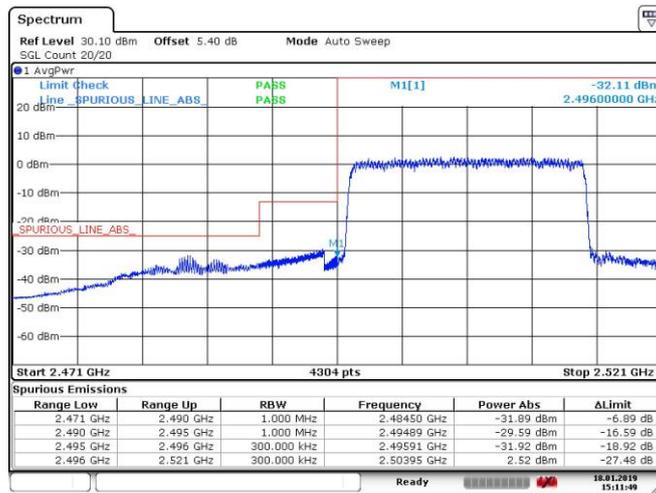
Date: 18 JAN 2019 15:06:00

BAND 41_20MHz_QPSK_39750_1RB#0



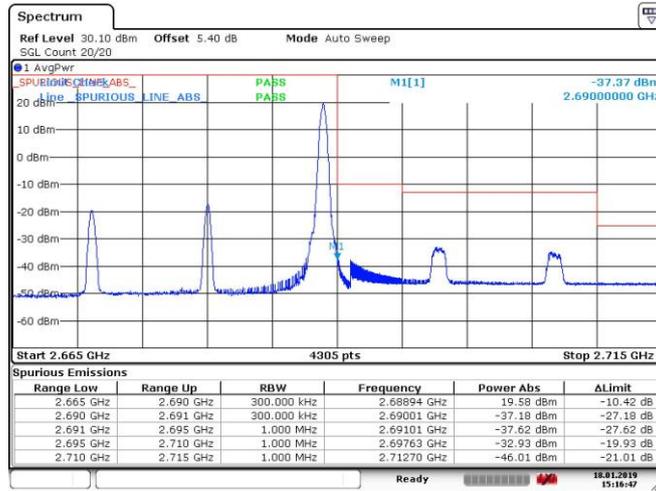
Date: 18 JAN 2019 15:13:03

BAND 41_20MHz_QPSK_39750_100RB#0



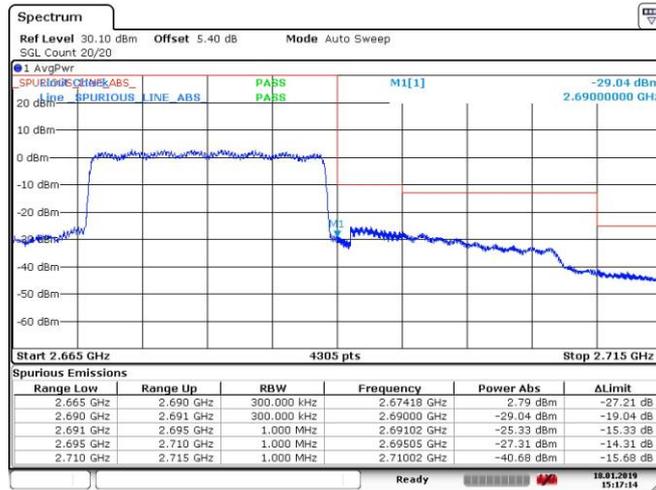
Date: 18 JAN 2019 15:11:49

BAND 41_20MHz_QPSK_41490_1RB#99



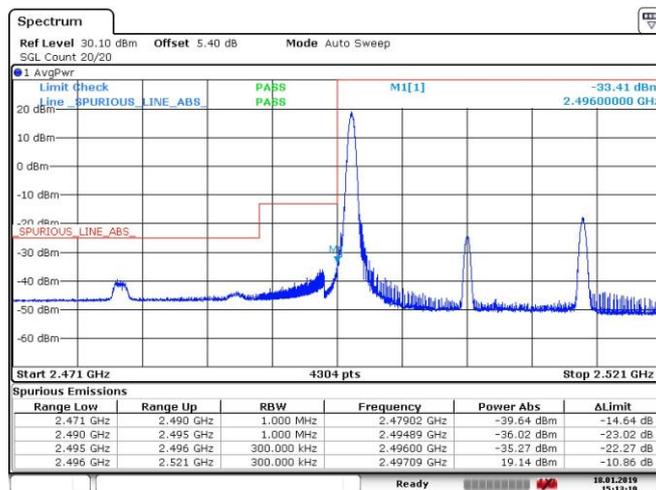
Date: 18 JAN 2019 15:16:47

BAND 41_20MHz_QPSK_41490_100RB#0



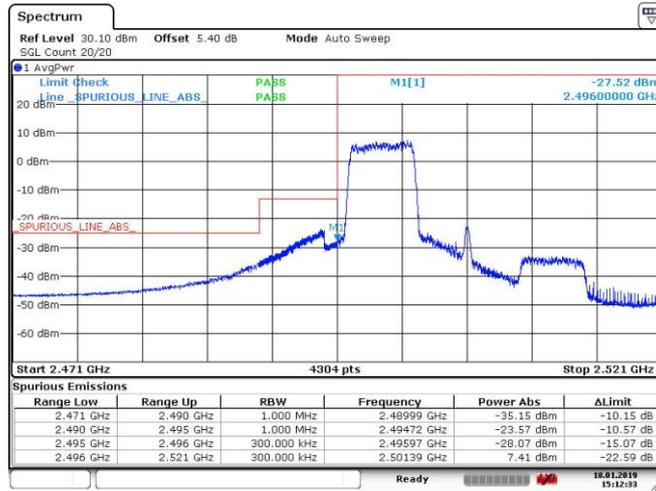
Date: 18 JAN 2019 15:17:14

BAND 41_20MHz_16QAM_39750_1RB#0



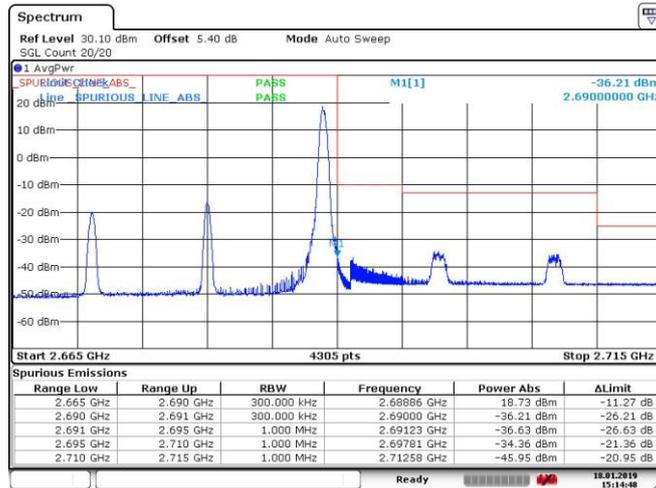
Date: 18 JAN 2019 15:13:20

BAND 41_20MHz_16QAM_39750_27RB#0



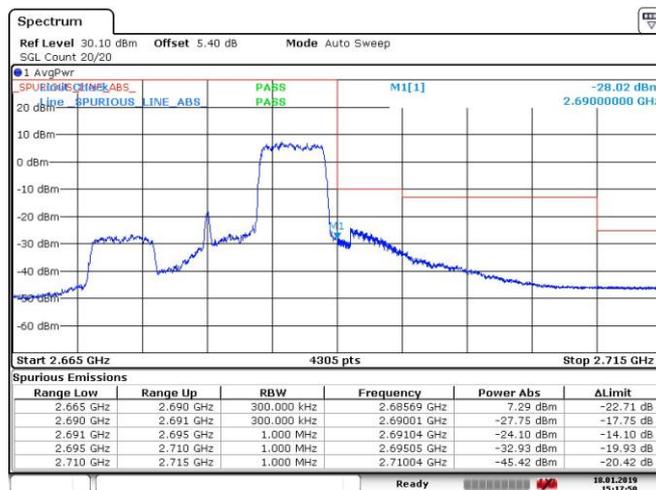
Date: 18 JAN 2019 15:12:33

BAND 41_20MHz_16QAM_41490_1RB#99



Date: 18 JAN 2019 15:14:47

BAND 41_20MHz_16QAM_41490_27RB#83



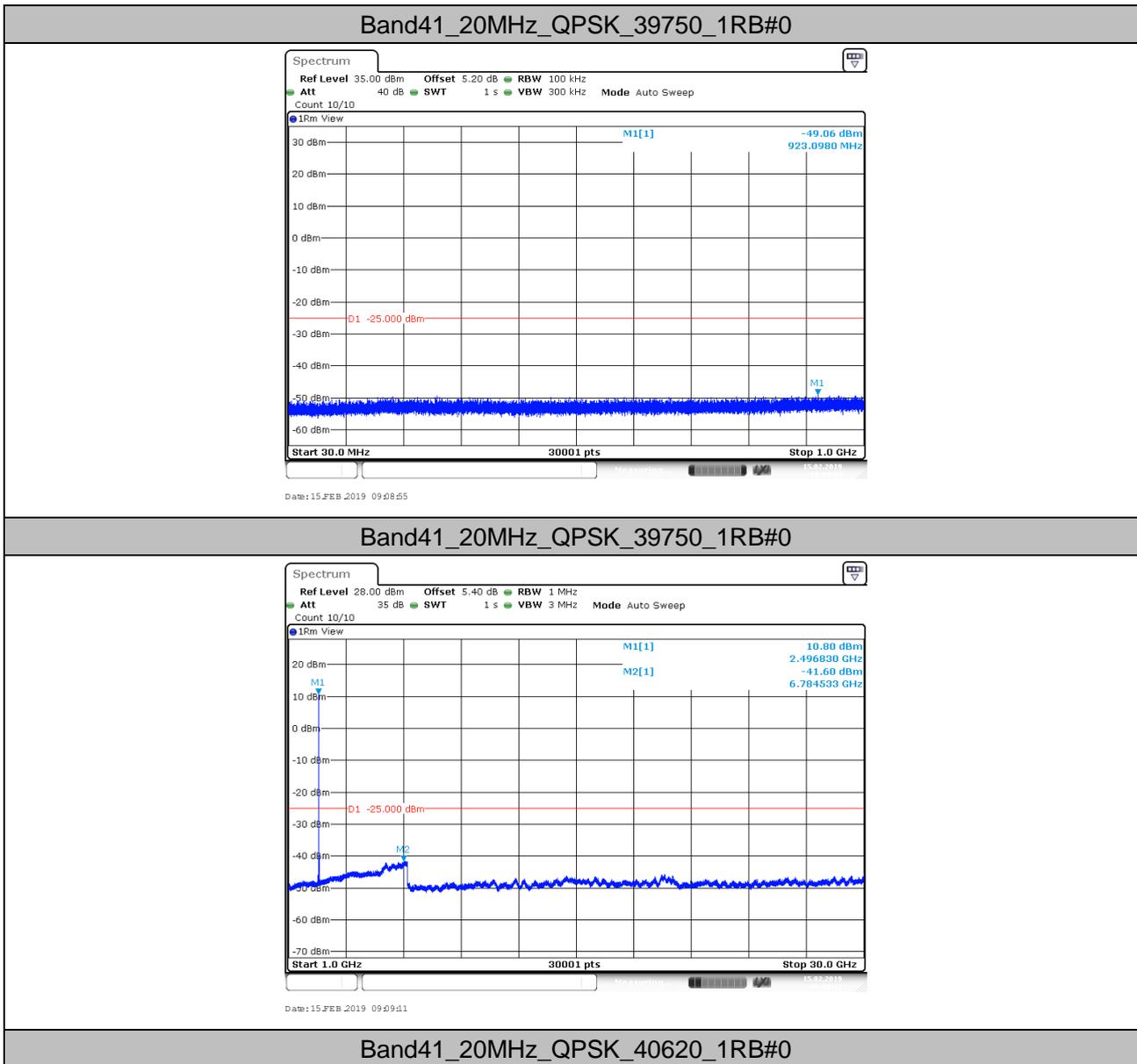
Date: 18 JAN 2019 15:17:51

6. Spurious Emission at Antenna Terminal

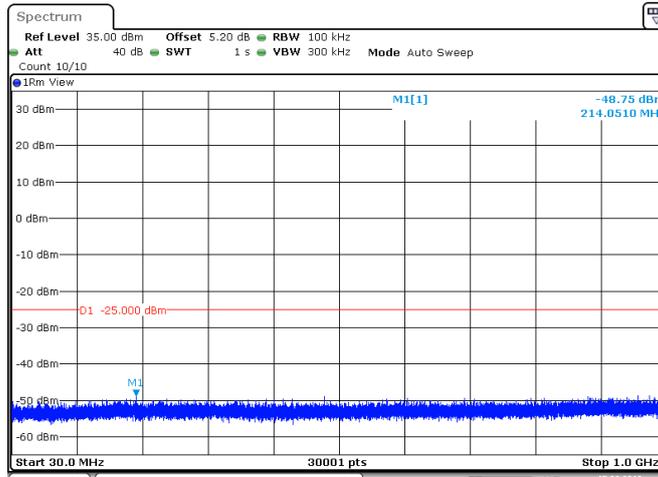
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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

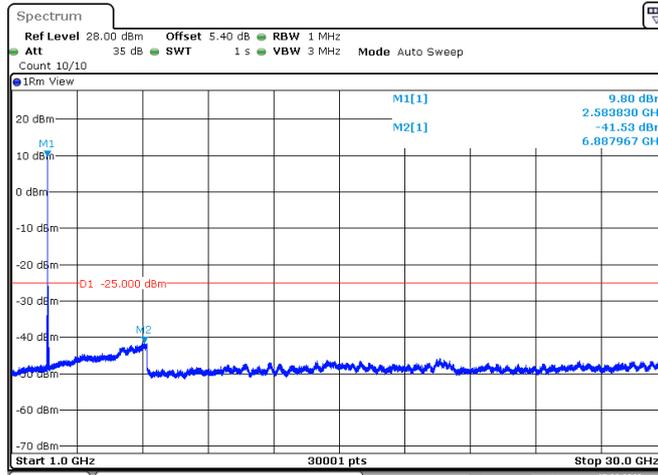


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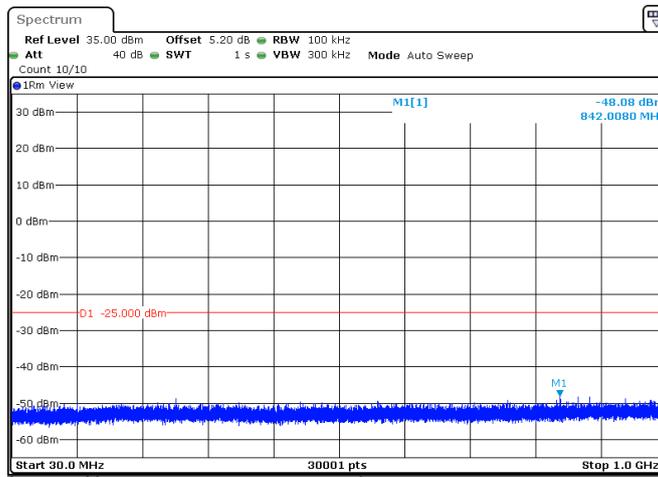
Date: 15.FEB.2019 09:13:40

Band41_20MHz_QPSK_40620_1RB#0



Date: 15.FEB.2019 09:13:56

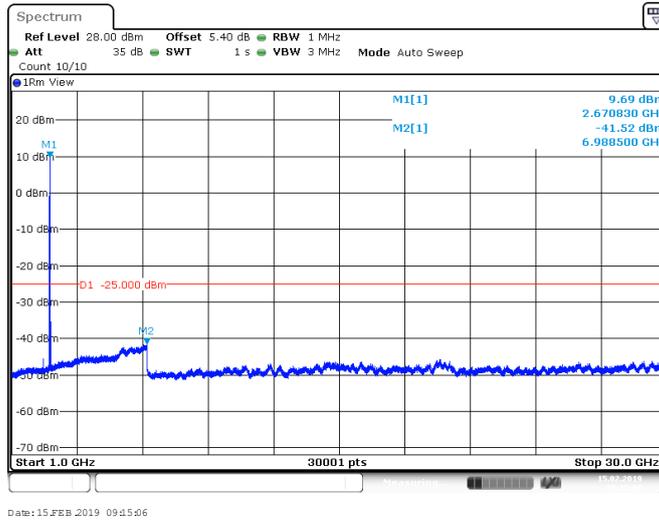
Band41_20MHz_QPSK_41490_1RB#0



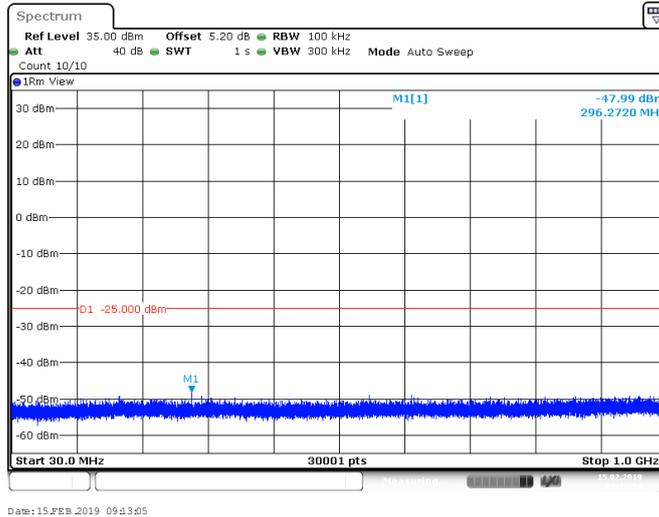
Date: 15.FEB.2019 09:14:50

Band41_20MHz_QPSK_41490_1RB#0

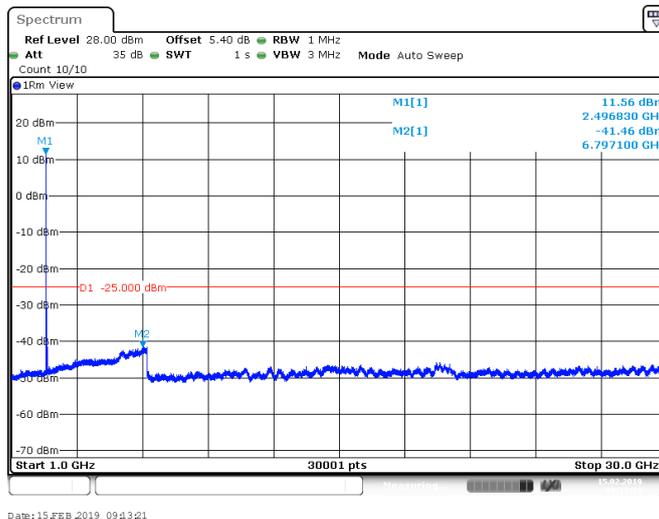
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Band41_20MHz_16QAM_39750_1RB#0

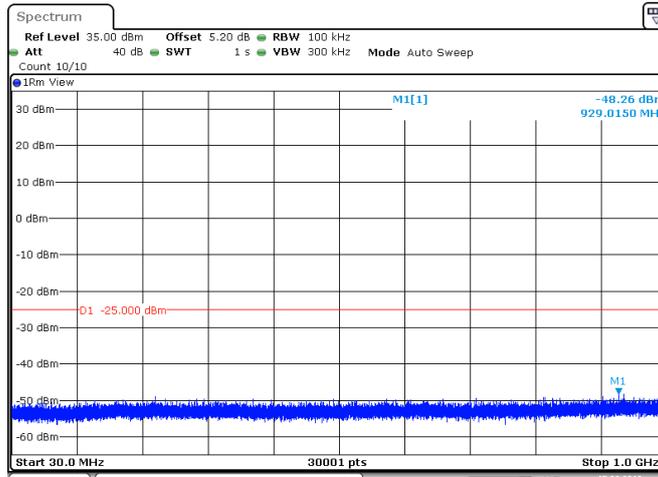


Band41_20MHz_16QAM_39750_1RB#0



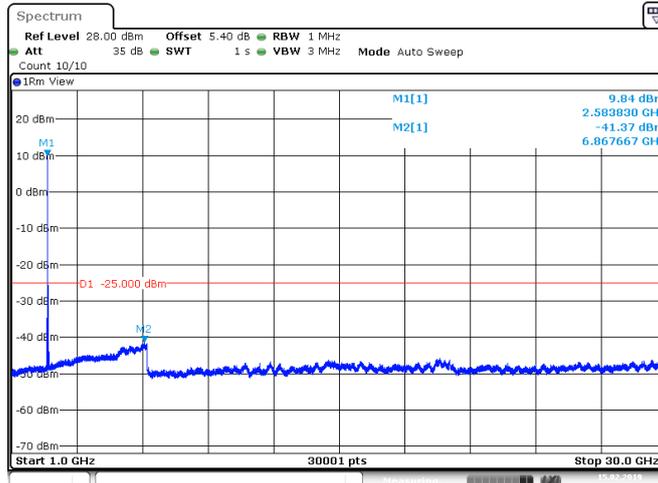
Band41_20MHz_16QAM_40620_1RB#0

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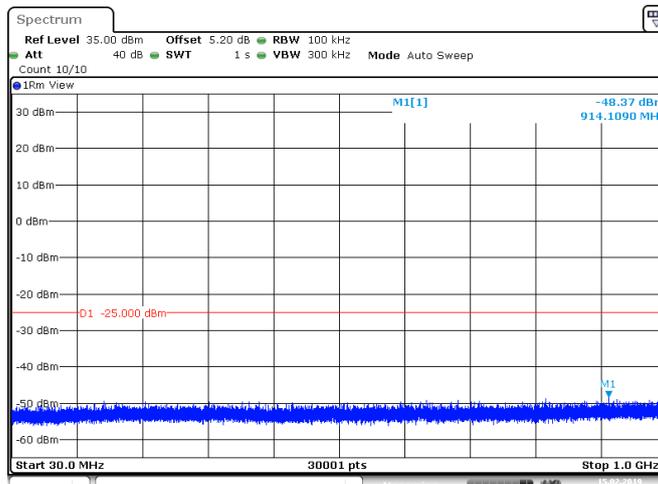
Date: 15.FEB.2019 09:44:15

Band41_20MHz_16QAM_40620_1RB#0



Date: 15.FEB.2019 09:44:31

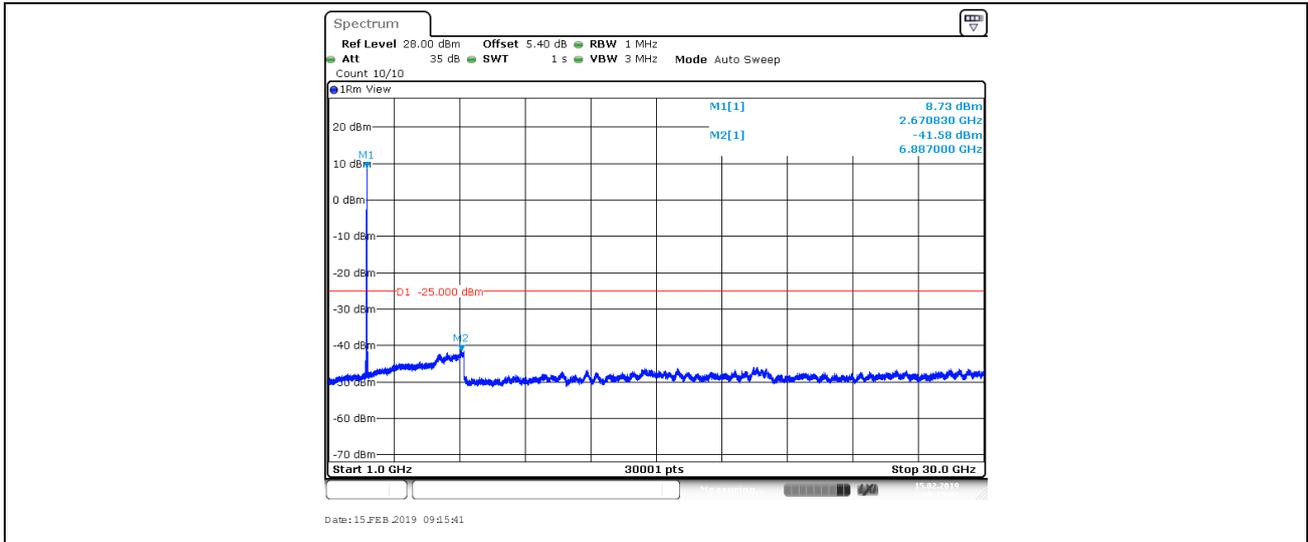
Band41_20MHz_16QAM_41490_1RB#0



Date: 15.FEB.2019 09:45:25

Band41_20MHz_16QAM_41490_1RB#0

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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 |
|-----------------|-------------|------------------|-------------|--------------|
| 63.550000 | -81.22 | -25.00 | 56.22 | Vertical |
| 300.300000 | -72.34 | -25.00 | 47.34 | Vertical |
| 575.995833 | -77.90 | -25.00 | 52.90 | Vertical |
| 4994.200000 | -51.74 | -25.00 | 26.74 | Vertical |
| 7491.175000 | -50.67 | -25.00 | 25.67 | Vertical |
| 9988.475000 | -55.04 | -25.00 | 30.04 | Vertical |
| 63.550000 | -81.22 | -25.00 | 56.22 | Horizontal |
| 300.300000 | -72.34 | -25.00 | 47.34 | Horizontal |
| 575.995833 | -77.90 | -25.00 | 52.90 | Horizontal |
| 4994.200000 | -51.74 | -25.00 | 26.74 | Horizontal |
| 7491.175000 | -50.67 | -25.00 | 25.67 | Horizontal |
| 9988.475000 | -55.04 | -25.00 | 30.04 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.300000 | -81.26 | -25.00 | 56.26 | Vertical |
| 104.250000 | -66.17 | -25.00 | 41.17 | Vertical |
| 300.300000 | -68.47 | -25.00 | 43.47 | Vertical |
| 5167.750000 | -52.40 | -25.00 | 27.40 | Vertical |
| 7752.150000 | -48.18 | -25.00 | 23.18 | Vertical |
| 10641.725000 | -62.56 | -25.00 | 37.56 | Vertical |
| 62.700000 | -76.95 | -25.00 | 51.95 | Horizontal |
| 104.300000 | -78.60 | -25.00 | 53.60 | Horizontal |
| 300.300000 | -78.70 | -25.00 | 53.70 | Horizontal |
| 5167.750000 | -52.86 | -25.00 | 27.86 | Horizontal |
| 7752.150000 | -46.57 | -25.00 | 21.57 | Horizontal |
| 10644.975000 | -62.91 | -25.00 | 37.91 | Horizontal |

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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 63.950000 | -81.23 | -25.00 | 56.23 | Vertical |
| 90.500000 | -80.38 | -25.00 | 55.38 | Vertical |
| 300.300000 | -66.77 | -25.00 | 41.77 | Vertical |
| 5341.950000 | -49.24 | -25.00 | 24.24 | Vertical |
| 8013.450000 | -47.50 | -25.00 | 22.50 | Vertical |
| 10684.625000 | -58.91 | -25.00 | 33.91 | Vertical |
| 63.200000 | -77.43 | -25.00 | 52.43 | Horizontal |
| 300.300000 | -78.00 | -25.00 | 53.00 | Horizontal |
| 575.995833 | -78.72 | -25.00 | 53.72 | Horizontal |
| 5341.950000 | -46.62 | -25.00 | 21.62 | Horizontal |
| 8012.800000 | -43.55 | -25.00 | 18.55 | Horizontal |
| 10684.300000 | -57.19 | -25.00 | 32.19 | Horizontal |

Spot Check data

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.300000 | -80.76 | -25.00 | 55.76 | Vertical |
| 104.250000 | -66.96 | -25.00 | 41.96 | Vertical |
| 386.500000 | -72.57 | -25.00 | 47.57 | Vertical |
| 5168.075000 | -65.97 | -25.00 | 40.97 | Vertical |
| 7992.325000 | -64.29 | -25.00 | 39.29 | Vertical |
| 10548.125000 | -64.46 | -25.00 | 39.46 | Vertical |
| 62.450000 | -77.31 | -25.00 | 52.31 | Horizontal |
| 104.250000 | -76.23 | -25.00 | 51.23 | Horizontal |
| 367.350000 | -72.58 | -25.00 | 47.58 | Horizontal |
| 5168.075000 | -64.35 | -25.00 | 39.35 | Horizontal |
| 7857.450000 | -63.98 | -25.00 | 38.98 | Horizontal |
| 10258.550000 | -64.50 | -25.00 | 39.50 | 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 (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VL | NT | -10.51 | -0.004192 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VN | NT | 5.99 | 0.002390 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | VH | NT | 12.31 | 0.004913 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VL | NT | 0.03 | 0.000011 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VN | NT | -2.82 | -0.001089 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | VH | NT | -14.38 | -0.005546 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VL | NT | -3.50 | -0.001305 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VN | NT | -10.63 | -0.003965 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | VH | NT | 5.53 | 0.002062 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VL | NT | 5.26 | 0.002100 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VN | NT | -1.19 | -0.000476 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | VH | NT | -6.02 | -0.002401 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VL | NT | -1.34 | -0.000516 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VN | NT | 0.29 | 0.000114 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | VH | NT | -2.00 | -0.000773 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VL | NT | -5.72 | -0.002134 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VN | NT | -14.33 | -0.005347 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | VH | NT | 2.89 | 0.001078 | ±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 | -3.82 | -0.001525 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | -20 | -9.43 | -0.003762 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 0 | -3.10 | -0.001238 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 10 | -1.68 | -0.000672 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 20 | -10.48 | -0.004180 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 30 | -3.67 | -0.001464 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 40 | -12.76 | -0.005091 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | NV | 50 | 9.59 | 0.003828 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -30 | 0.76 | 0.000293 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | -20 | -7.43 | -0.002866 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 0 | 12.22 | 0.004712 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 10 | -7.75 | -0.002988 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 20 | -3.25 | -0.001253 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 30 | -8.81 | -0.003399 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 40 | -9.18 | -0.003541 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | NV | 50 | -12.58 | -0.004852 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -30 | -5.14 | -0.001919 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | -20 | 5.82 | 0.002170 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 0 | 5.97 | 0.002229 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 10 | -11.02 | -0.004110 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 20 | 8.00 | 0.002986 | ±2.5 | PASS |

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| | | | | | | | | | | |
|--------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 30 | -13.01 | -0.004856 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 40 | -2.80 | -0.001043 | ±2.5 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | NV | 50 | -5.51 | -0.002056 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | -30 | -9.29 | -0.003709 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | -20 | 3.13 | 0.001249 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 0 | -8.95 | -0.003570 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 10 | 9.48 | 0.003784 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 20 | 5.82 | 0.002323 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 30 | 2.68 | 0.001071 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 40 | 9.47 | 0.003779 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 27RB#0 | NV | 50 | 3.82 | 0.001524 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | -30 | -4.14 | -0.001595 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | -20 | -6.66 | -0.002569 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 0 | -3.33 | -0.001283 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 10 | -1.63 | -0.000628 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 20 | 10.83 | 0.004177 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 30 | -13.30 | -0.005131 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 40 | 7.10 | 0.002738 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 27RB#0 | NV | 50 | -5.49 | -0.002117 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | -30 | 0.47 | 0.000176 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | -20 | 6.19 | 0.002311 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 0 | 0.39 | 0.000145 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 10 | -6.62 | -0.002470 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 20 | -12.87 | -0.004804 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 30 | -12.11 | -0.004519 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 40 | -10.58 | -0.003947 | ±2.5 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 27RB#0 | NV | 50 | 0.25 | 0.000093 | ±2.5 | PASS |

The End