

Appendix J: Test Results of Band 66 for eMTC operation

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APPENDIX J.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | Index | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|-------|--------------|---------|
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | 23.09 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | 21.29 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | 22.94 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 21.34 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | 22.57 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | 21.46 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | 21.66 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | 21.30 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | 21.52 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 21.33 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | 21.14 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 6 | 0 | Low | 21.26 | PASS |
| Band66 | 3MHz | 131987 | QPSK | 1 | 0 | Low | 23.07 | PASS |
| Band66 | 3MHz | 131987 | QPSK | 6 | 0 | Low | 21.37 | PASS |
| Band66 | 3MHz | 132322 | QPSK | 1 | 0 | Low | 22.82 | PASS |
| Band66 | 3MHz | 132322 | QPSK | 6 | 0 | Low | 21.33 | PASS |
| Band66 | 3MHz | 132657 | QPSK | 1 | 5 | High | 22.55 | PASS |
| Band66 | 3MHz | 132657 | QPSK | 6 | 0 | High | 21.24 | PASS |
| Band66 | 3MHz | 131987 | 16QAM | 1 | 0 | Low | 21.63 | PASS |
| Band66 | 3MHz | 131987 | 16QAM | 6 | 0 | Low | 21.37 | PASS |
| Band66 | 3MHz | 132322 | 16QAM | 1 | 0 | Low | 21.37 | PASS |
| Band66 | 3MHz | 132322 | 16QAM | 6 | 0 | Low | 21.33 | PASS |
| Band66 | 3MHz | 132657 | 16QAM | 1 | 5 | High | 21.27 | PASS |
| Band66 | 3MHz | 132657 | 16QAM | 6 | 0 | High | 21.55 | PASS |
| Band66 | 5MHz | 131997 | QPSK | 1 | 0 | Low | 23.16 | PASS |
| Band66 | 5MHz | 131997 | QPSK | 6 | 0 | Low | 21.80 | PASS |
| Band66 | 5MHz | 132322 | QPSK | 1 | 0 | Low | 22.93 | PASS |
| Band66 | 5MHz | 132322 | QPSK | 6 | 0 | Low | 21.57 | PASS |
| Band66 | 5MHz | 132647 | QPSK | 1 | 5 | High | 22.79 | PASS |
| Band66 | 5MHz | 132647 | QPSK | 3 | 3 | High | 21.74 | PASS |
| Band66 | 5MHz | 131997 | 16QAM | 1 | 0 | Low | 23.14 | PASS |
| Band66 | 5MHz | 131997 | 16QAM | 6 | 0 | Low | 21.80 | PASS |
| Band66 | 5MHz | 132322 | 16QAM | 1 | 0 | Low | 22.90 | PASS |
| Band66 | 5MHz | 132322 | 16QAM | 6 | 0 | Low | 21.57 | PASS |
| Band66 | 5MHz | 132647 | 16QAM | 1 | 5 | High | 22.93 | PASS |
| Band66 | 5MHz | 132647 | 16QAM | 3 | 3 | High | 21.87 | PASS |
| Band66 | 10MHz | 132022 | QPSK | 1 | 0 | Low | 23.15 | PASS |
| Band66 | 10MHz | 132022 | QPSK | 5 | 0 | Low | 21.81 | PASS |
| Band66 | 10MHz | 132322 | QPSK | 1 | 0 | Low | 22.97 | PASS |
| Band66 | 10MHz | 132322 | QPSK | 5 | 0 | Low | 21.63 | PASS |

| | | | | | | | | |
|--------|-------|--------|-------|---|---|------|-------|------|
| Band66 | 10MHz | 132622 | QPSK | 1 | 5 | High | 22.80 | PASS |
| Band66 | 10MHz | 132622 | QPSK | 5 | 1 | High | 21.85 | PASS |
| Band66 | 10MHz | 132022 | 16QAM | 1 | 0 | Low | 23.11 | PASS |
| Band66 | 10MHz | 132022 | 16QAM | 5 | 0 | Low | 21.98 | PASS |
| Band66 | 10MHz | 132322 | 16QAM | 1 | 0 | Low | 22.93 | PASS |
| Band66 | 10MHz | 132322 | 16QAM | 5 | 0 | Low | 21.80 | PASS |
| Band66 | 10MHz | 132622 | 16QAM | 1 | 5 | High | 22.93 | PASS |
| Band66 | 10MHz | 132622 | 16QAM | 5 | 1 | High | 21.88 | PASS |
| Band66 | 15MHz | 132047 | QPSK | 1 | 0 | Low | 23.10 | PASS |
| Band66 | 15MHz | 132047 | QPSK | 6 | 0 | Low | 22.93 | PASS |
| Band66 | 15MHz | 132322 | QPSK | 1 | 0 | Low | 22.99 | PASS |
| Band66 | 15MHz | 132322 | QPSK | 6 | 0 | Low | 22.85 | PASS |
| Band66 | 15MHz | 132597 | QPSK | 1 | 5 | High | 22.77 | PASS |
| Band66 | 15MHz | 132597 | QPSK | 6 | 0 | High | 22.86 | PASS |
| Band66 | 15MHz | 132047 | 16QAM | 1 | 0 | Low | 23.12 | PASS |
| Band66 | 15MHz | 132047 | 16QAM | 6 | 0 | Low | 22.98 | PASS |
| Band66 | 15MHz | 132322 | 16QAM | 1 | 0 | Low | 23.00 | PASS |
| Band66 | 15MHz | 132322 | 16QAM | 6 | 0 | Low | 22.85 | PASS |
| Band66 | 15MHz | 132597 | 16QAM | 1 | 5 | High | 22.98 | PASS |
| Band66 | 15MHz | 132597 | 16QAM | 6 | 0 | High | 22.86 | PASS |
| Band66 | 20MHz | 132072 | QPSK | 1 | 0 | Low | 23.11 | PASS |
| Band66 | 20MHz | 132072 | QPSK | 6 | 0 | Low | 22.92 | PASS |
| Band66 | 20MHz | 132322 | QPSK | 1 | 0 | Low | 23.06 | PASS |
| Band66 | 20MHz | 132322 | QPSK | 6 | 0 | Low | 22.91 | PASS |
| Band66 | 20MHz | 132572 | QPSK | 1 | 5 | High | 22.80 | PASS |
| Band66 | 20MHz | 132572 | QPSK | 6 | 0 | High | 22.88 | PASS |
| Band66 | 20MHz | 132072 | 16QAM | 1 | 0 | Low | 23.08 | PASS |
| Band66 | 20MHz | 132072 | 16QAM | 6 | 0 | Low | 22.92 | PASS |
| Band66 | 20MHz | 132322 | 16QAM | 1 | 0 | Low | 23.02 | PASS |
| Band66 | 20MHz | 132322 | 16QAM | 6 | 0 | Low | 22.91 | PASS |
| Band66 | 20MHz | 132572 | 16QAM | 1 | 5 | High | 22.94 | PASS |
| Band66 | 20MHz | 132572 | 16QAM | 6 | 0 | High | 22.88 | PASS |

Note: The highest antenna gain permitted including cable loss, must satisfy both EIRP (ERP) limit and RF exposure requirements.

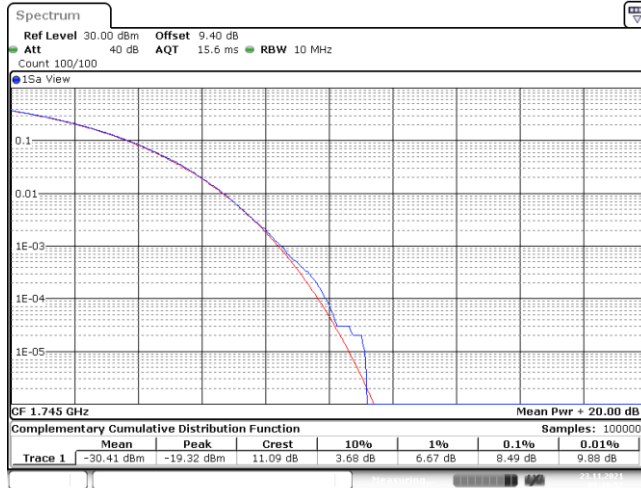
APPENDIX J.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | Index | Result (dB) | Limit (dB) | Verdict |
|--------|-----------|------------|---------|---------|----------|-------|-------------|------------|---------|
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 8.49 | <=13 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 12.14 | <=13 | PASS |
| Band66 | 3MHz | 132322 | QPSK | 6 | 0 | Low | 10.38 | <=13 | PASS |
| Band66 | 3MHz | 132322 | 16QAM | 6 | 0 | Low | 12.09 | <=13 | PASS |
| Band66 | 5MHz | 132322 | QPSK | 6 | 0 | Low | 11.65 | <=13 | PASS |
| Band66 | 5MHz | 132322 | 16QAM | 6 | 0 | Low | 12.46 | <=13 | PASS |
| Band66 | 10MHz | 132322 | QPSK | 6 | 0 | Low | 9.83 | <=13 | PASS |
| Band66 | 10MHz | 132322 | 16QAM | 6 | 0 | Low | 9.65 | <=13 | PASS |
| Band66 | 15MHz | 132322 | QPSK | 6 | 0 | Low | 9.39 | <=13 | PASS |
| Band66 | 15MHz | 132322 | 16QAM | 6 | 0 | Low | 12.06 | <=13 | PASS |
| Band66 | 20MHz | 132322 | QPSK | 6 | 0 | Low | 10.17 | <=13 | PASS |
| Band66 | 20MHz | 132322 | 16QAM | 6 | 0 | Low | 10.29 | <=13 | PASS |

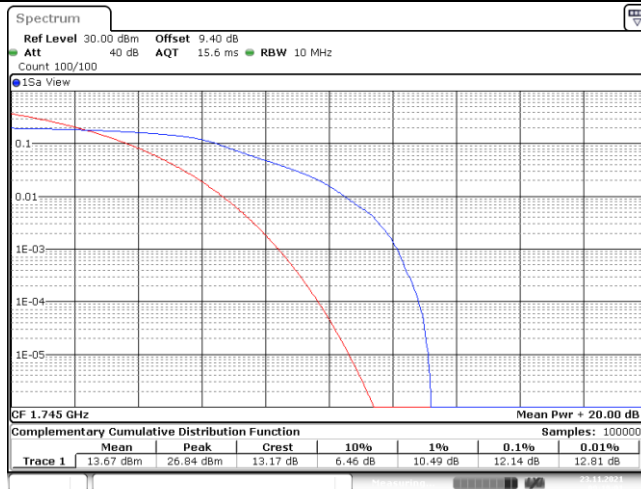
Test Graphs

Band66-1.4MHz-QPSK-132322-6-0-Low-8.49-<=13-PASS



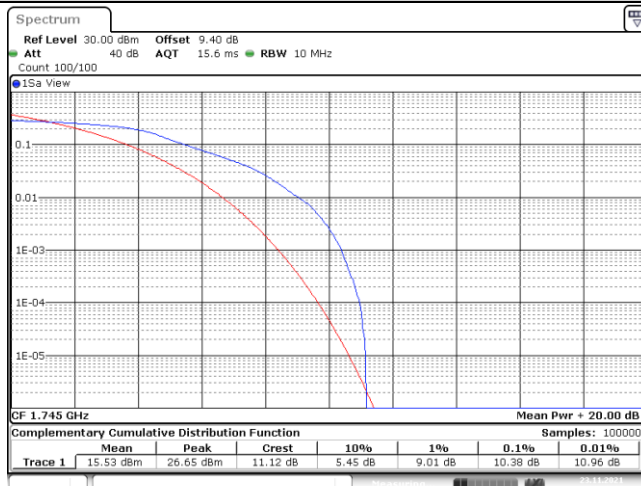
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Band66-1.4MHz-16QAM-132322-6-0-Low-12.14-<=13-PASS



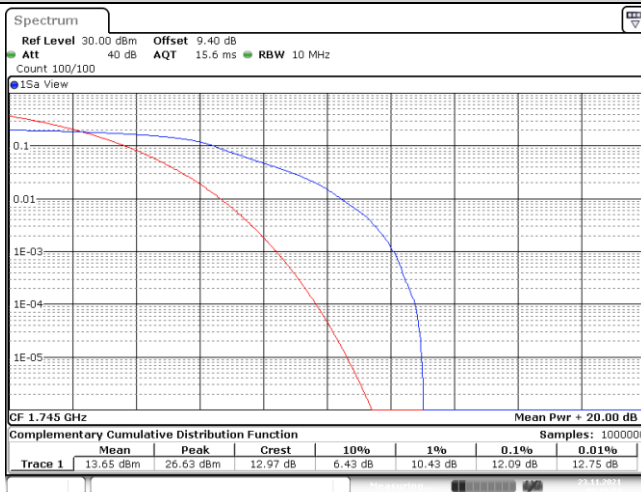
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Band66-3MHz-QPSK-132322-6-0-Low-10.38-<=13-PASS



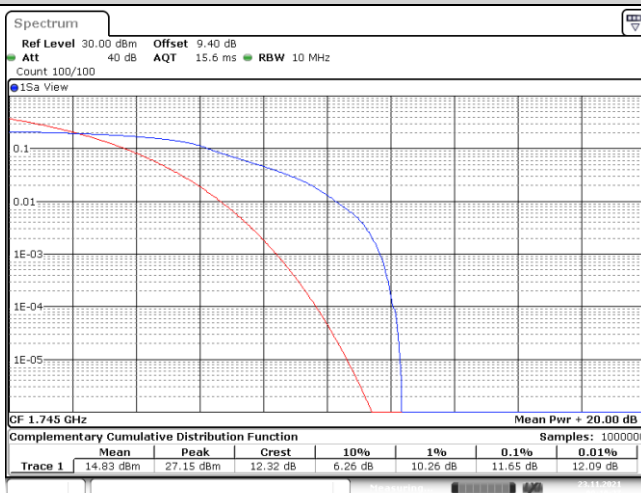
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Band66-3MHz-16QAM-132322-6-0-Low-12.09-<=13-PASS



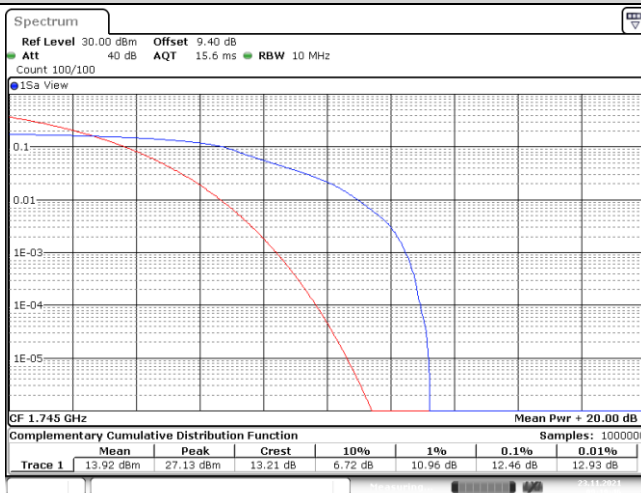
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Band66-5MHz-QPSK-132322-6-0-Low-11.65-<=13-PASS



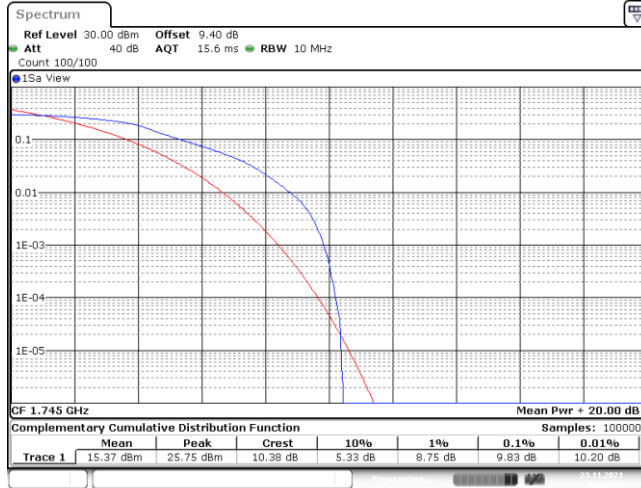
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Band66-5MHz-16QAM-132322-6-0-Low-12.46-<=13-PASS



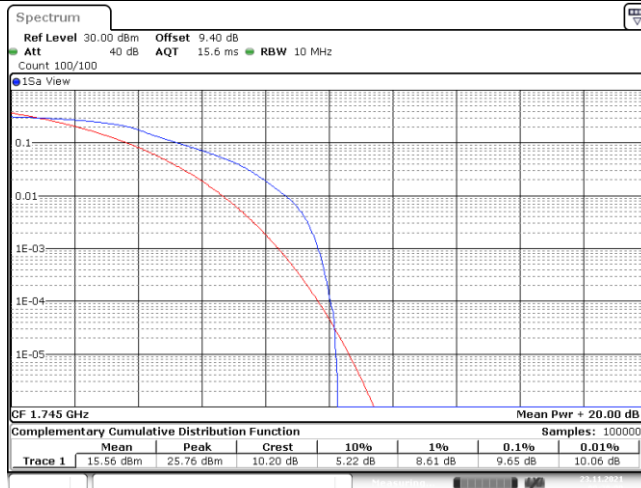
Date: 23.NOV.2021 09:19:47

Band66-10MHz-QPSK-132322-6-0-Low-9.83-<=13-PASS



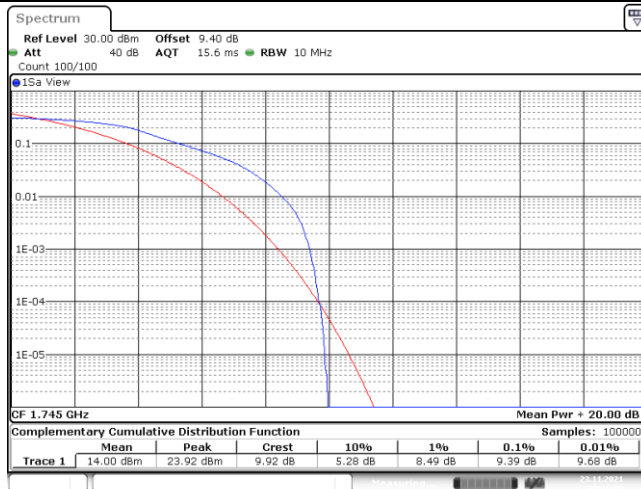
Date: 23.NOV.2021 09:20:00

Band66-10MHz-16QAM-132322-6-0-Low-9.65-<=13-PASS



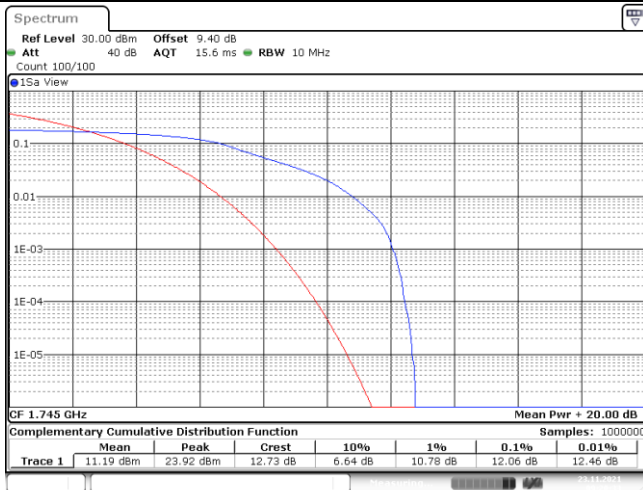
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Band66-15MHz-QPSK-132322-6-0-Low-9.39-<=13-PASS



Date: 23.NOV.2021 09:20:24

Band66-15MHz-16QAM-132322-6-0-Low-12.06-<=13-PASS



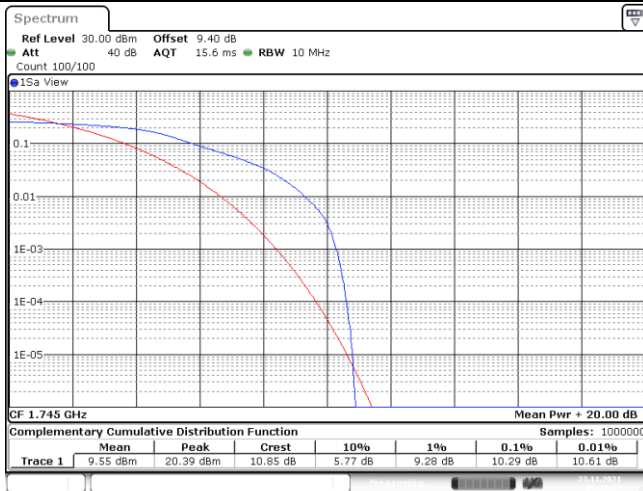
Date: 23.NOV.2021 09:20:33

Band66-20MHz-QPSK-132322-6-0-Low-10.17-<=13-PASS



Date: 23.NOV.2021 09:20:47

Band66-20MHz-16QAM-132322-6-0-Low-10.29-<=13-PASS



Date: 23.NOV.2021 09:20:57

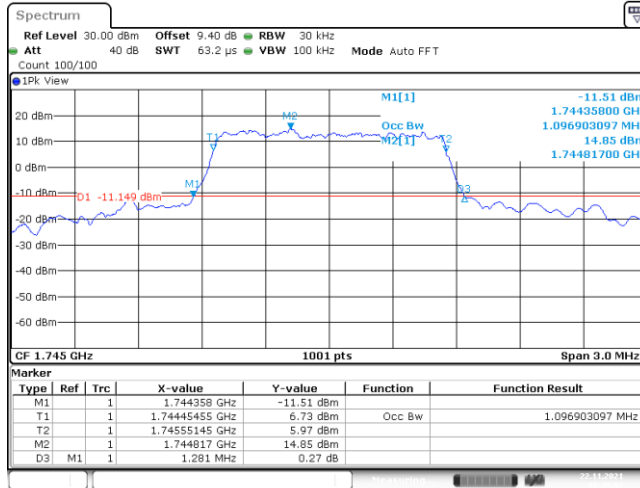
APPENDIX J.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------|----------|-------|--------------------------|----------------------|---------|
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 1.097 | 1.281 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 1.097 | 1.278 | PASS |
| Band66 | 3MHz | 132322 | QPSK | 6 | 0 | Low | 1.097 | 1.296 | PASS |
| Band66 | 3MHz | 132322 | 16QAM | 6 | 0 | Low | 1.097 | 1.290 | PASS |
| Band66 | 5MHz | 132322 | QPSK | 6 | 0 | Low | 1.119 | 1.320 | PASS |
| Band66 | 5MHz | 132322 | 16QAM | 6 | 0 | Low | 1.109 | 1.300 | PASS |
| Band66 | 10MHz | 132322 | QPSK | 6 | 0 | Low | 1.099 | 1.320 | PASS |
| Band66 | 10MHz | 132322 | 16QAM | 6 | 0 | Low | 1.119 | 1.320 | PASS |
| Band66 | 15MHz | 132322 | QPSK | 6 | 0 | Low | 1.139 | 1.350 | PASS |
| Band66 | 15MHz | 132322 | 16QAM | 6 | 0 | Low | 1.139 | 1.350 | PASS |
| Band66 | 20MHz | 132322 | QPSK | 6 | 0 | Low | 1.159 | 1.400 | PASS |
| Band66 | 20MHz | 132322 | 16QAM | 6 | 0 | Low | 1.159 | 1.360 | PASS |

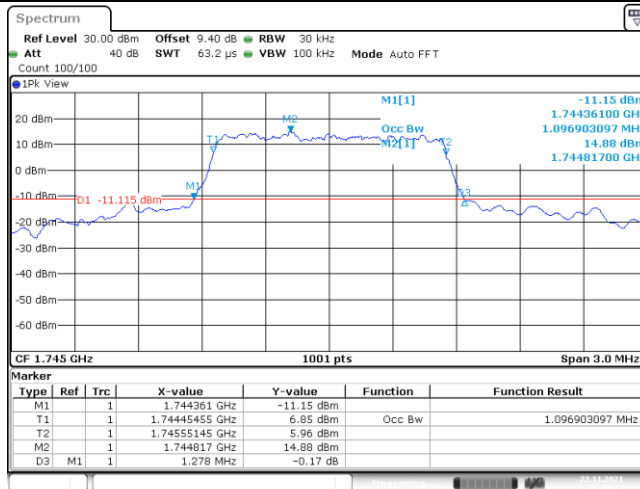
Test Graphs

Band66-1.4MHz-QPSK-132322-6-0-Low-1.097-1.281-PASS



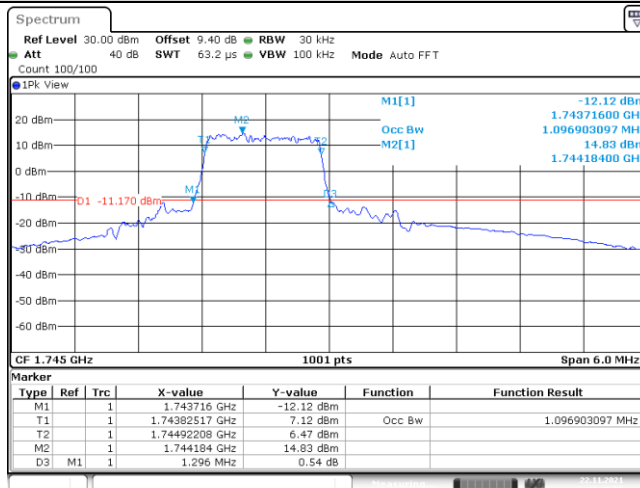
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Band66-1.4MHz-16QAM-132322-6-0-Low-1.097-1.278-PASS



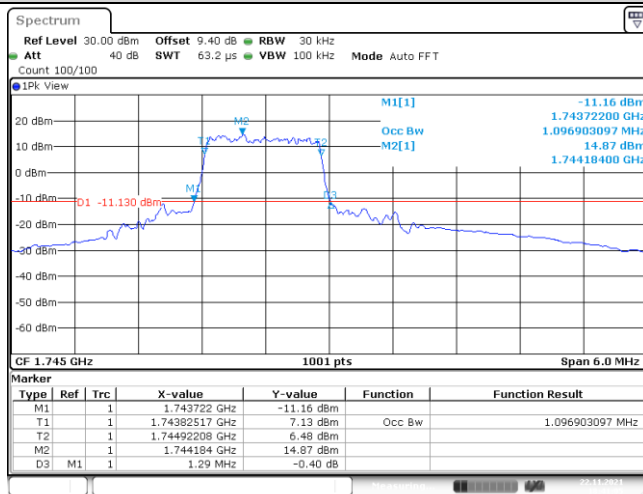
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Band66-3MHz-QPSK-132322-6-0-Low-1.097-1.296-PASS



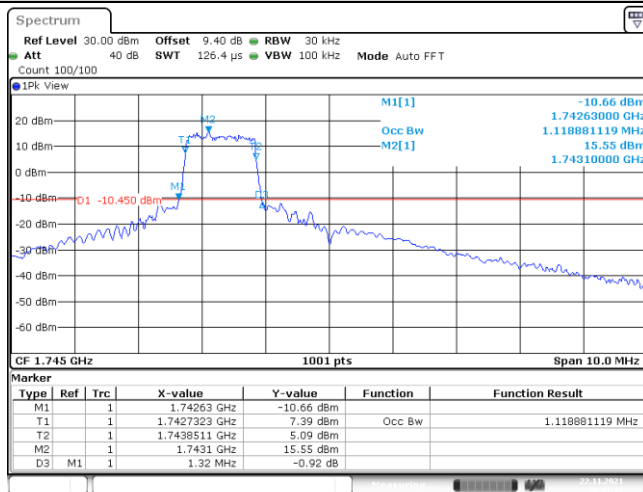
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Band66-3MHz-16QAM-132322-6-0-Low-1.097-1.290-PASS



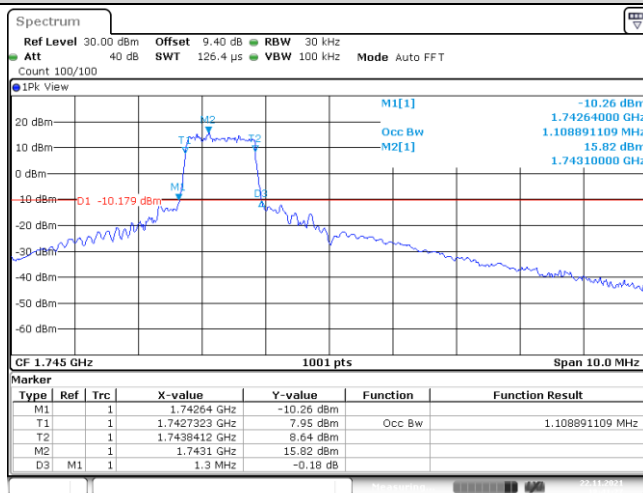
Date: 22.NOV.2021 18:41:04

Band66-5MHz-QPSK-132322-6-0-Low-1.119-1.320-PASS



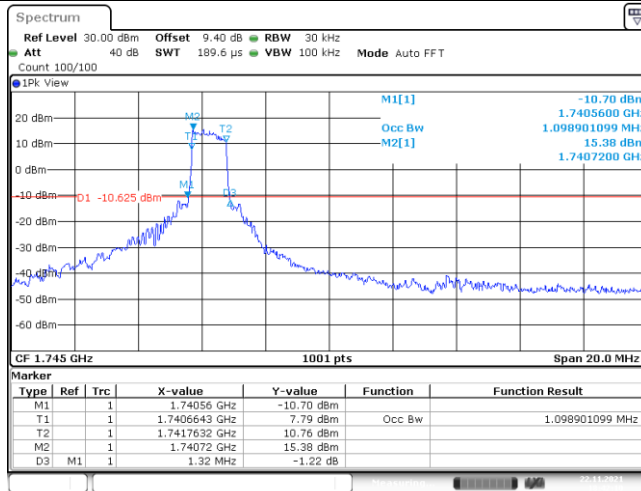
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Band66-5MHz-16QAM-132322-6-0-Low-1.109-1.300-PASS

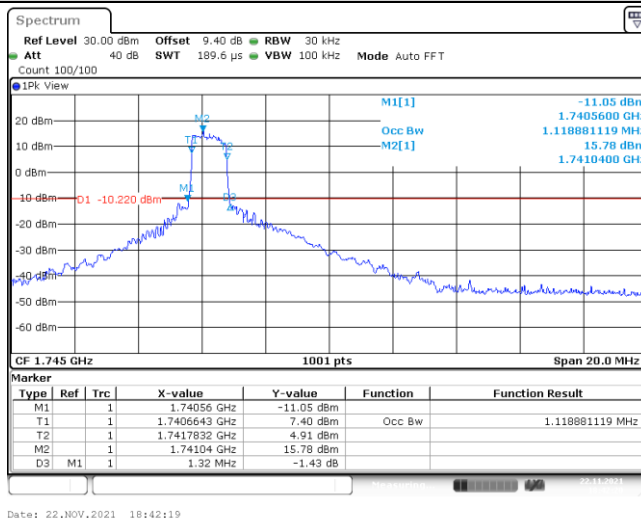


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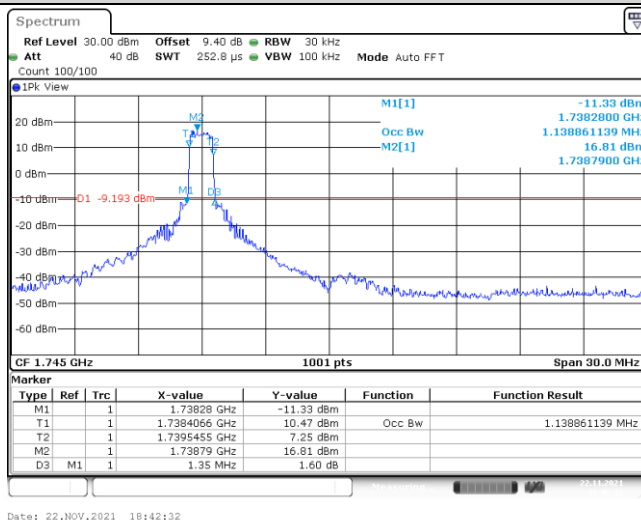
Band66-10MHz-QPSK-132322-6-0-Low-1.099-1.320-PASS



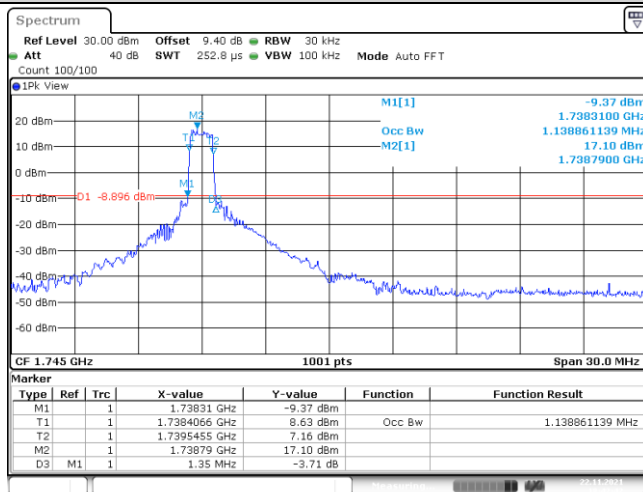
Band66-10MHz-16QAM-132322-6-0-Low-1.119-1.320-PASS



Band66-15MHz-QPSK-132322-6-0-Low-1.139-1.350-PASS

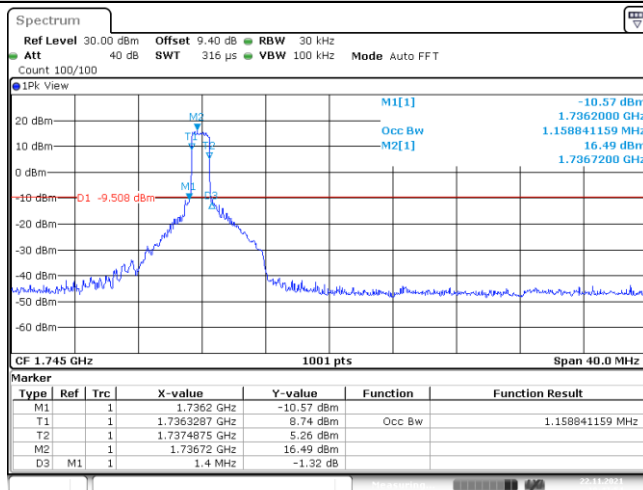


Band66-15MHz-16QAM-132322-6-0-Low-1.139-1.350-PASS



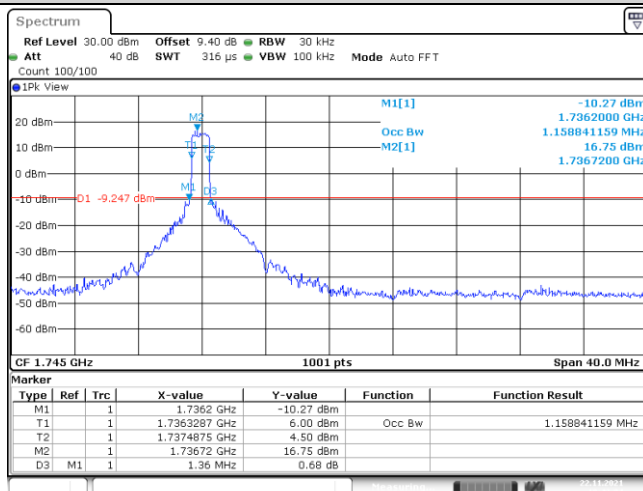
Date: 22.NOV.2021 18:42:42

Band66-20MHz-QPSK-132322-6-0-Low-1.159-1.400-PASS



Date: 22.NOV.2021 18:42:54

Band66-20MHz-16QAM-132322-6-0-Low-1.159-1.360-PASS



Date: 22.NOV.2021 18:43:04

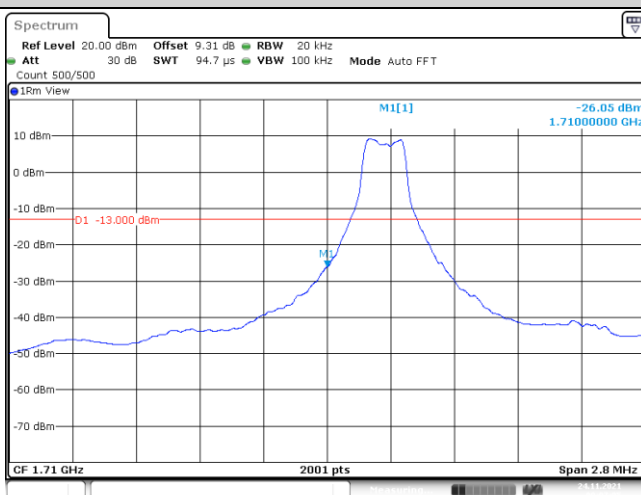
APPENDIX J.4: BAND EDGE FOR M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result(dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|-------------|---------|
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | -26.05 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | -29.07 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | -30.25 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | -31.29 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | -28.13 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | -29.33 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | -30.05 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 6 | 0 | Low | -31.25 | PASS |

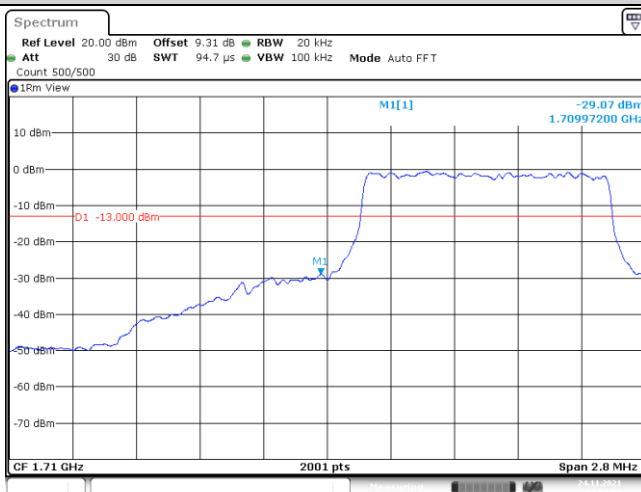
Test Graphs

Band66-1.4MHz-QPSK-131979-1-0-Low--26.05-PASS



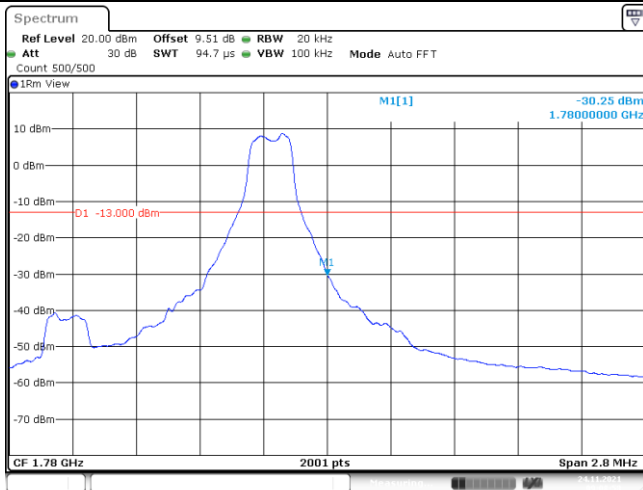
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Band66-1.4MHz-QPSK-131979-6-0-Low--29.07-PASS



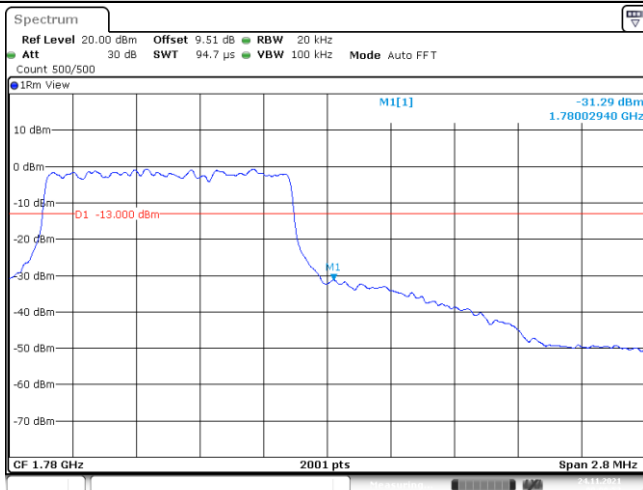
Date: 24.NOV.2021 09:07:59

Band66-1.4MHz-QPSK-132665-1-5-Low--30.25-PASS



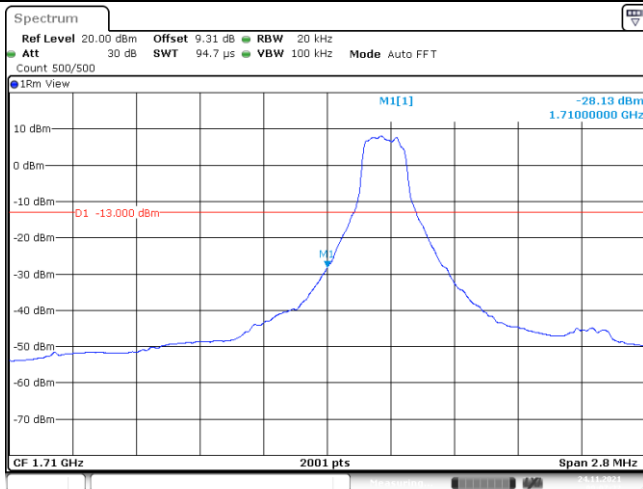
Date: 24.NOV.2021 09:08:58

Band66-1.4MHz-QPSK-132665-6-0-Low--31.29-PASS



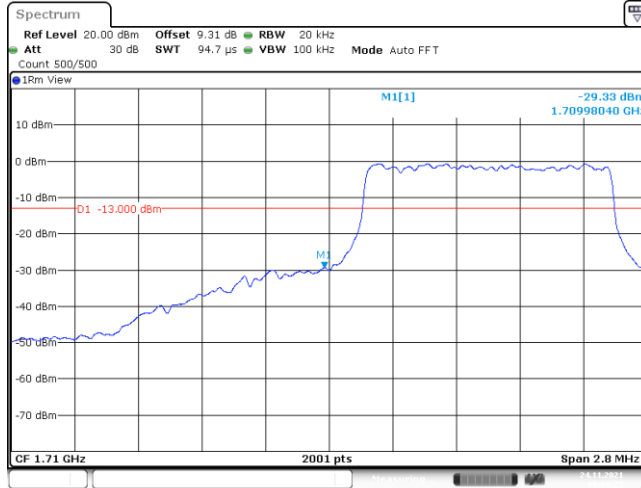
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Band66-1.4MHz-16QAM-131979-1-0-Low--28.13-PASS



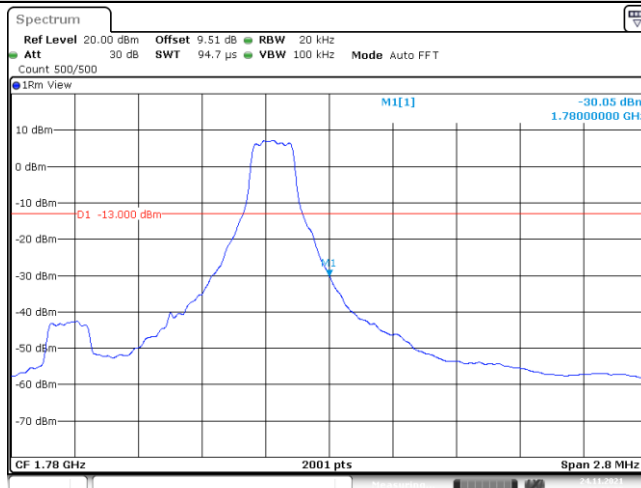
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Band66-1.4MHz-16QAM-131979-6-0-Low--29.33-PASS



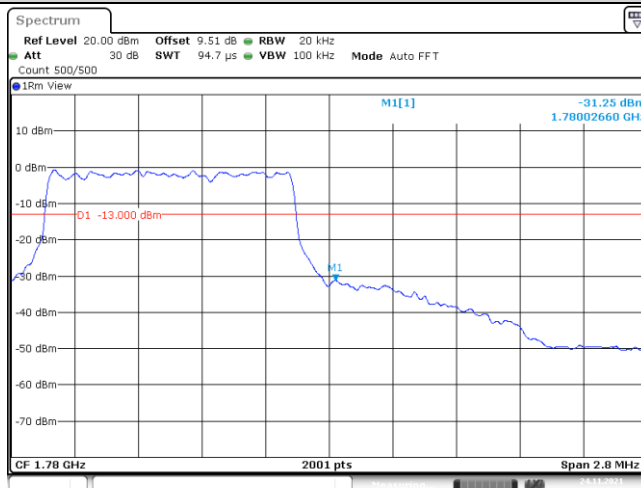
Date: 24.NOV.2021 09:08:25

Band66-1.4MHz-16QAM-132665-1-5-Low--30.05-PASS



Date: 24.NOV.2021 09:09:25

Band66-1.4MHz-16QAM-132665-6-0-Low--31.25-PASS



Date: 24.NOV.2021 09:10:19

APPENDIX J.5: CONDUCTED SPURIOUS EMISSION FOR M1

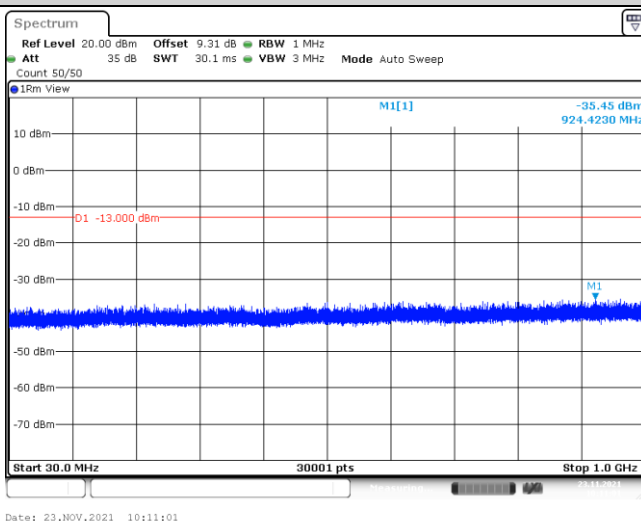
Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|-------|------------|-----------|--------------|---------|
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | 30 | 1000 | -35.45 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | 1000 | 5000 | -38.12 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | 5000 | 12000 | -53.16 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 1 | 0 | Low | 12000 | 26500 | -49.58 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | 30 | 1000 | -35.82 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | 1000 | 5000 | -40.33 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | 5000 | 12000 | -53.57 | PASS |
| Band66 | 1.4MHz | 131979 | QPSK | 6 | 0 | Low | 12000 | 26500 | -49.47 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | 30 | 1000 | -34.95 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | 1000 | 5000 | -37.2 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | 5000 | 12000 | -53.13 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | 12000 | 26500 | -49.53 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 30 | 1000 | -35.29 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 1000 | 5000 | -39.46 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 5000 | 12000 | -53.3 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 6 | 0 | Low | 12000 | 26500 | -49.43 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | 30 | 1000 | -35.15 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | 1000 | 5000 | -40.3 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | 5000 | 12000 | -53.17 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 1 | 5 | Low | 12000 | 26500 | -49.56 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | 30 | 1000 | -35.45 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | 1000 | 5000 | -40.23 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | 5000 | 12000 | -53.36 | PASS |
| Band66 | 1.4MHz | 132665 | QPSK | 6 | 0 | Low | 12000 | 26500 | -49.51 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | 30 | 1000 | -35.21 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | 1000 | 5000 | -38.48 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | 5000 | 12000 | -53.54 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 1 | 0 | Low | 12000 | 26500 | -49.67 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | 30 | 1000 | -35.48 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | 1000 | 5000 | -40.47 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | 5000 | 12000 | -53.56 | PASS |
| Band66 | 1.4MHz | 131979 | 16QAM | 6 | 0 | Low | 12000 | 26500 | -49.55 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | 30 | 1000 | -35.04 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | 1000 | 5000 | -38 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | 5000 | 12000 | -53.43 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | 12000 | 26500 | -49.57 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 30 | 1000 | -35.35 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 1000 | 5000 | -39.73 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 5000 | 12000 | -53.42 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 6 | 0 | Low | 12000 | 26500 | -49.53 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | 30 | 1000 | -34.52 | PASS |

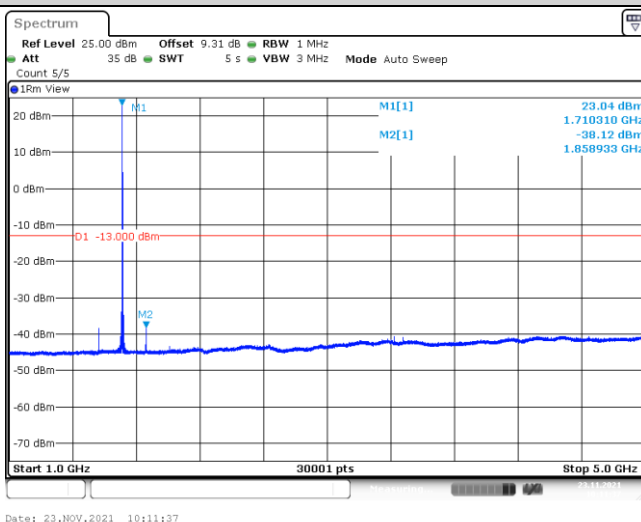
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|--------|--------|--------|-------|---|---|-----|-------|-------|--------|------|
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | 1000 | 5000 | -40.12 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | 5000 | 12000 | -53.26 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 1 | 5 | Low | 12000 | 26500 | -49.59 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 6 | 0 | Low | 30 | 1000 | -34.93 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 6 | 0 | Low | 1000 | 5000 | -40.35 | PASS |
| Band66 | 1.4MHz | 132665 | 16QAM | 6 | 0 | Low | 5000 | 12000 | -53.34 | PASS |
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Test Graphs

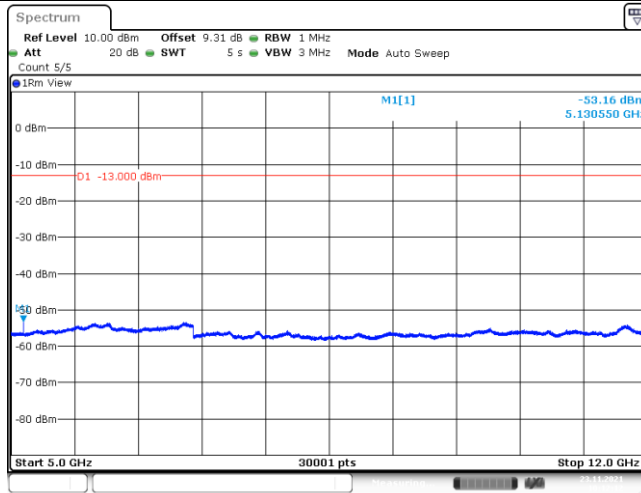
Band66-1.4MHz-QPSK-131979-1-0-Low-30-1000--35.45-PASS



Band66-1.4MHz-QPSK-131979-1-0-Low-1000-5000--38.12-PASS

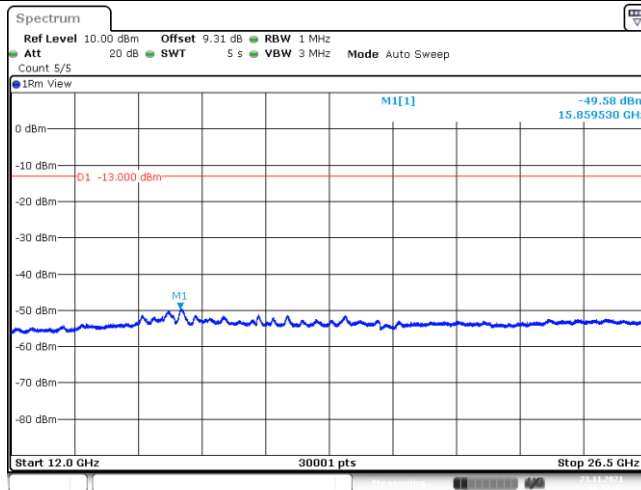


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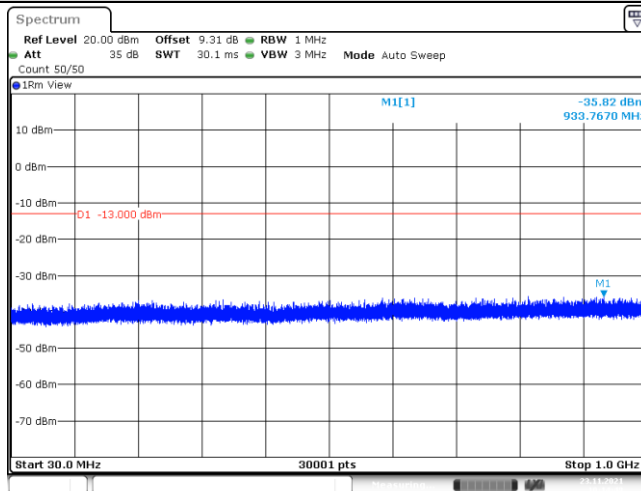
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Band66-1.4MHz-QPSK-131979-1-0-Low-12000-26500--49.58-PASS



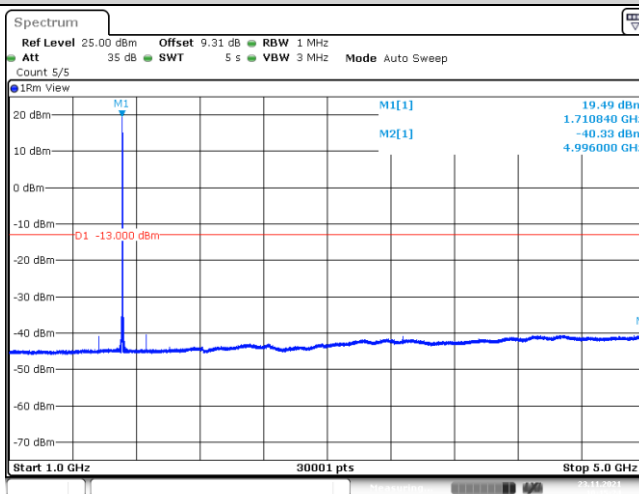
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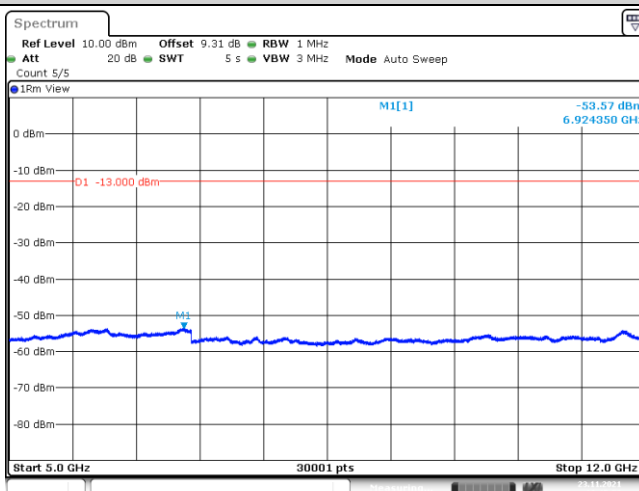
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Band66-1.4MHz-QPSK-131979-6-0-Low-1000-5000--40.33-PASS



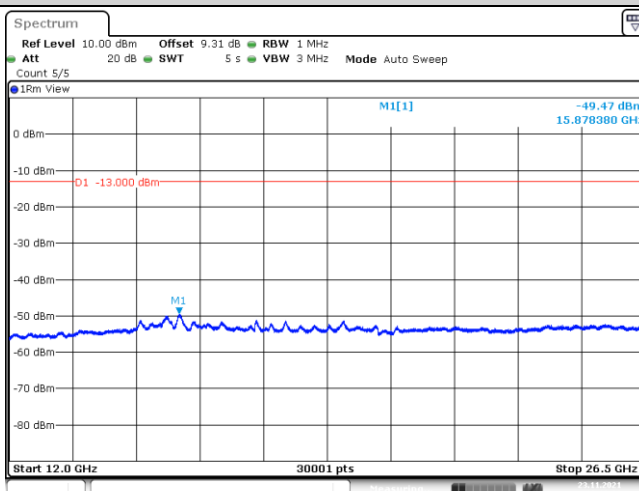
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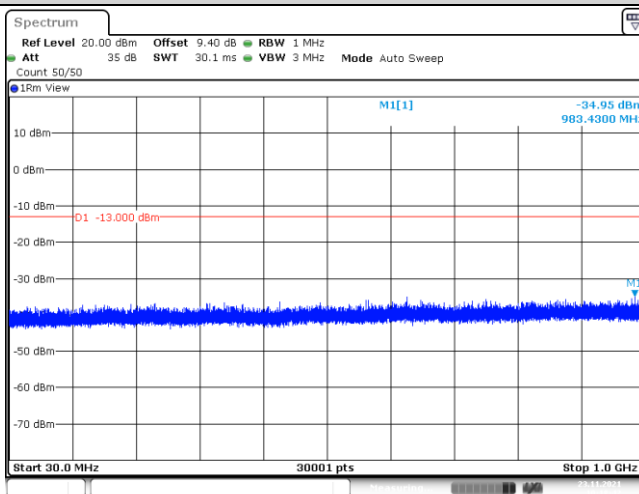
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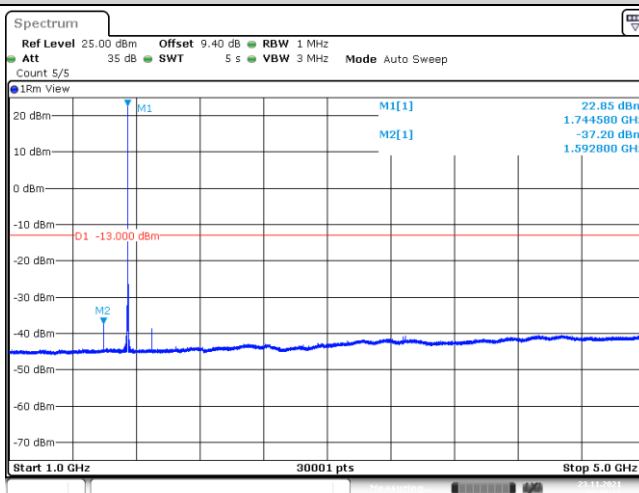


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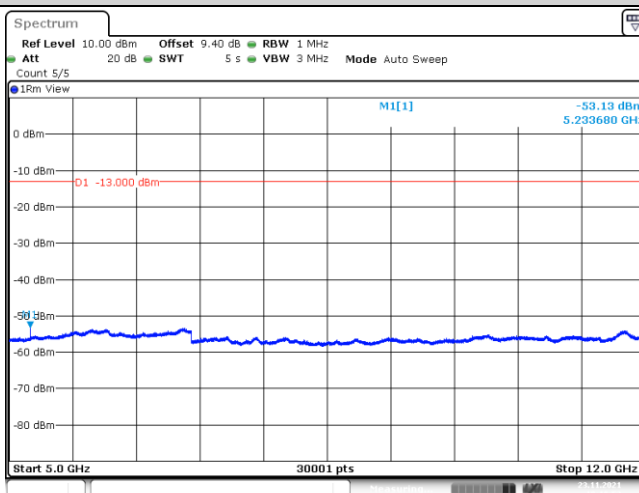
Band66-1.4MHz-QPSK-132322-1-0-Low-30-1000--34.95-PASS



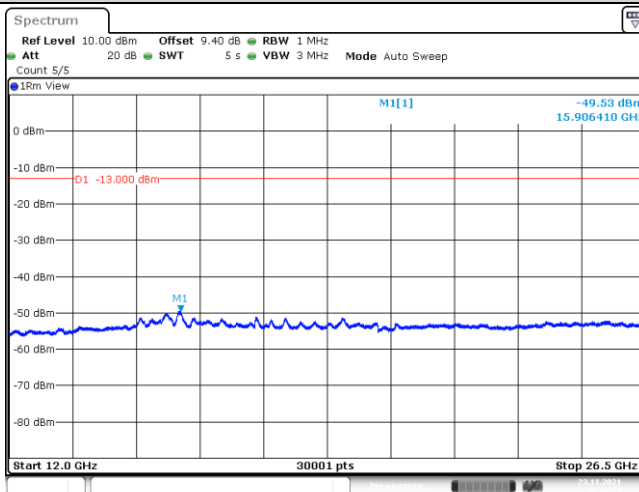
Band66-1.4MHz-QPSK-132322-1-0-Low-1000-5000--37.2-PASS



Band66-1.4MHz-QPSK-132322-1-0-Low-5000-12000--53.13-PASS

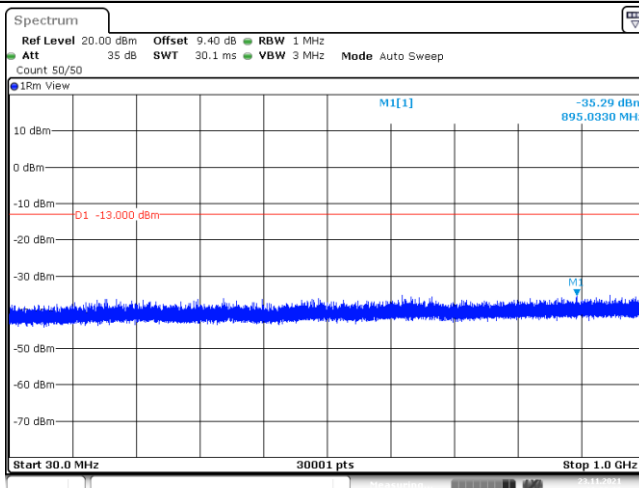


Band66-1.4MHz-QPSK-132322-1-0-Low-12000-26500--49.53-PASS



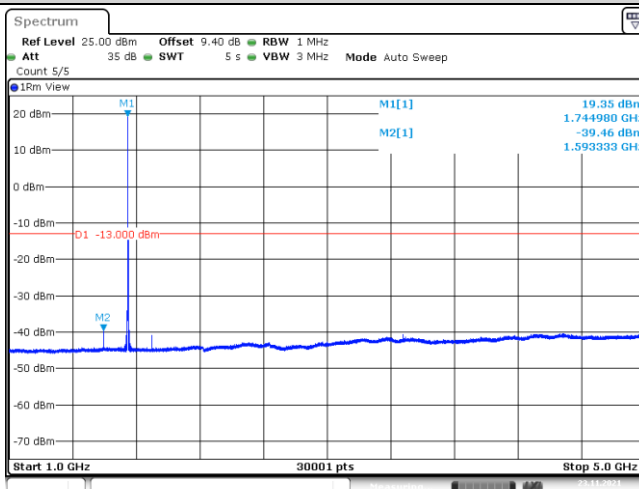
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Band66-1.4MHz-QPSK-132322-6-0-Low-30-1000--35.29-PASS



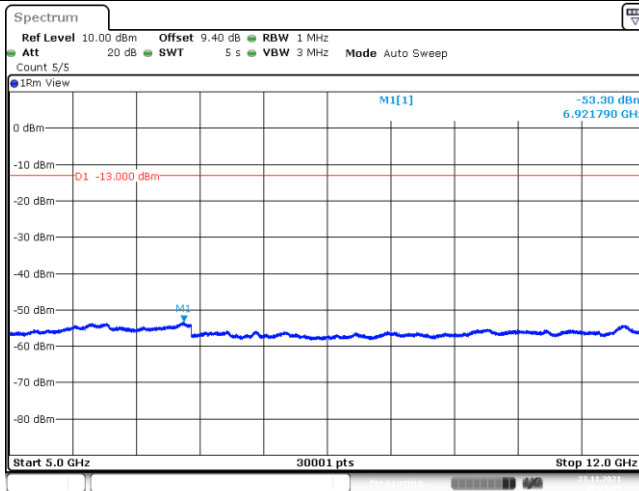
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Band66-1.4MHz-QPSK-132322-6-0-Low-1000-5000--39.46-PASS



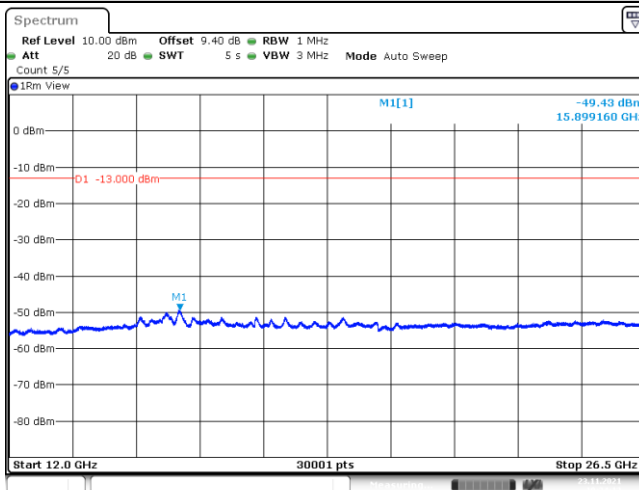
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Band66-1.4MHz-QPSK-132322-6-0-Low-5000-12000--53.3-PASS



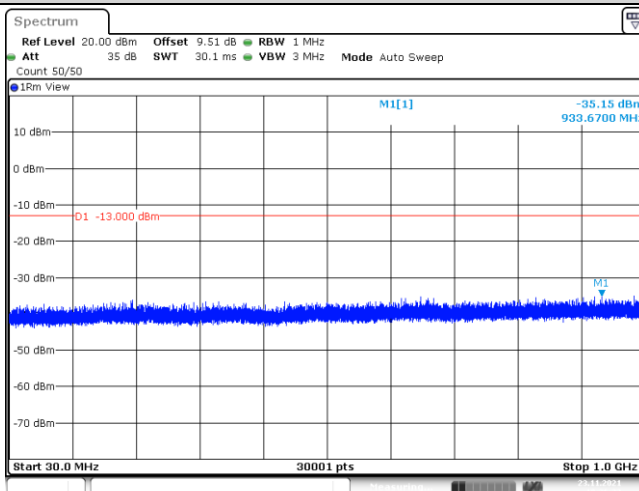
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Band66-1.4MHz-QPSK-132322-6-0-Low-12000-26500--49.43-PASS



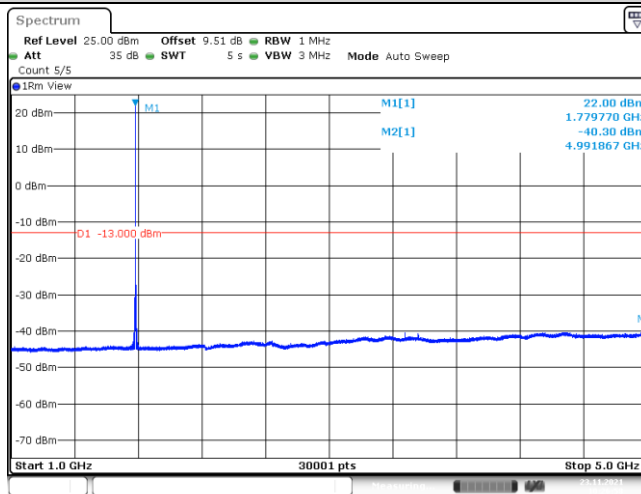
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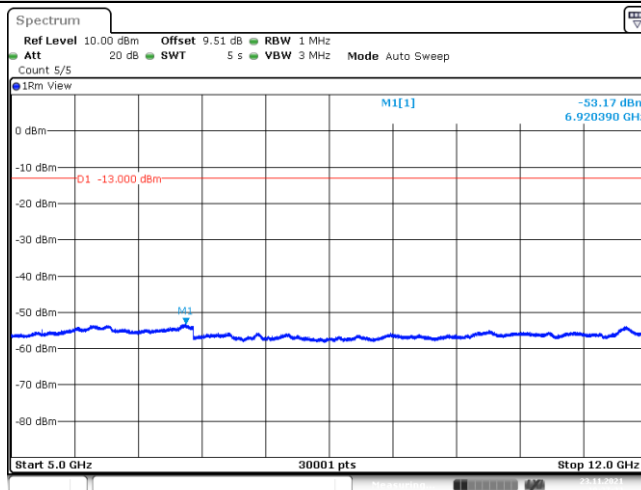
Date: 23.NOV.2021 10:26:23

Band66-1.4MHz-QPSK-132665-1-5-Low-1000-5000--40.3-PASS



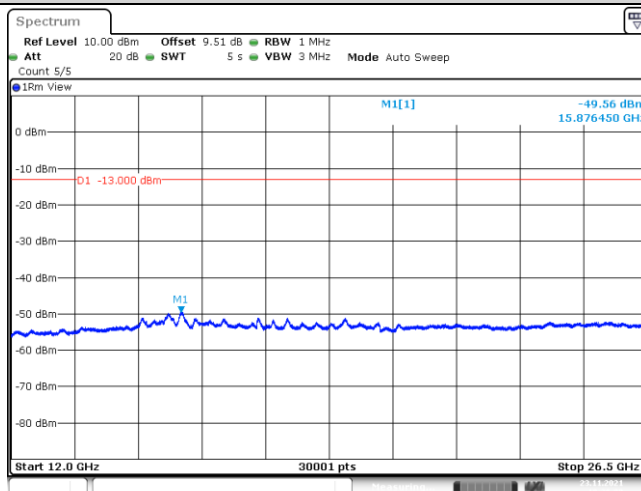
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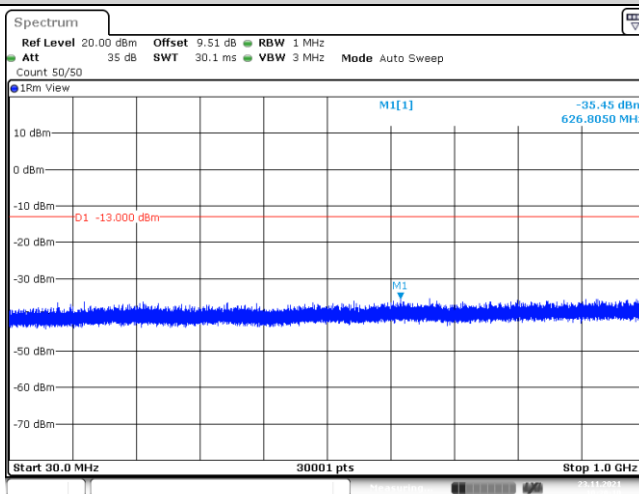
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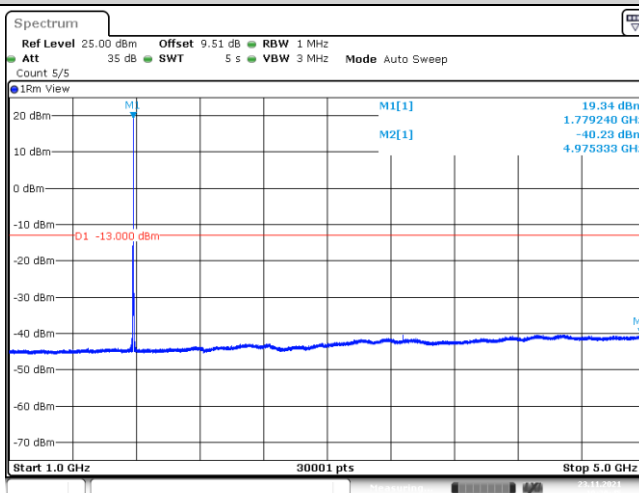
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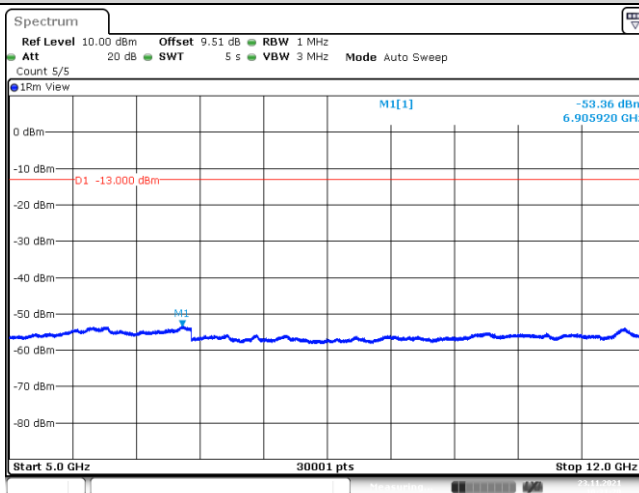
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Band66-1.4MHz-QPSK-132665-6-0-Low-1000-5000--40.23-PASS



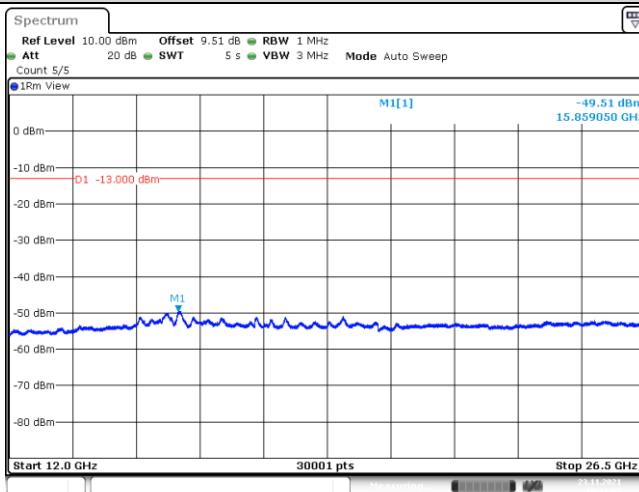
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Band66-1.4MHz-QPSK-132665-6-0-Low-5000-12000--53.36-PASS



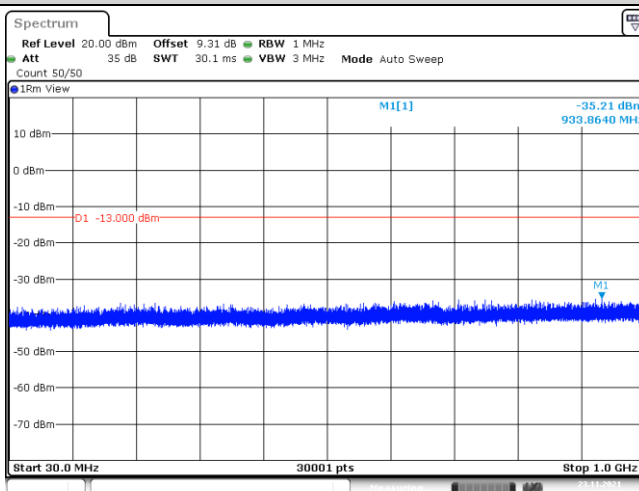
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Band66-1.4MHz-QPSK-132665-6-0-Low-12000-26500--49.51-PASS



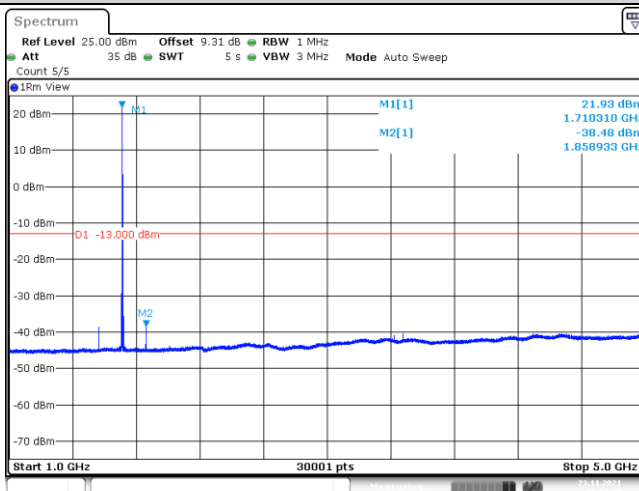
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Band66-1.4MHz-16QAM-131979-1-0-Low-30-1000--35.21-PASS



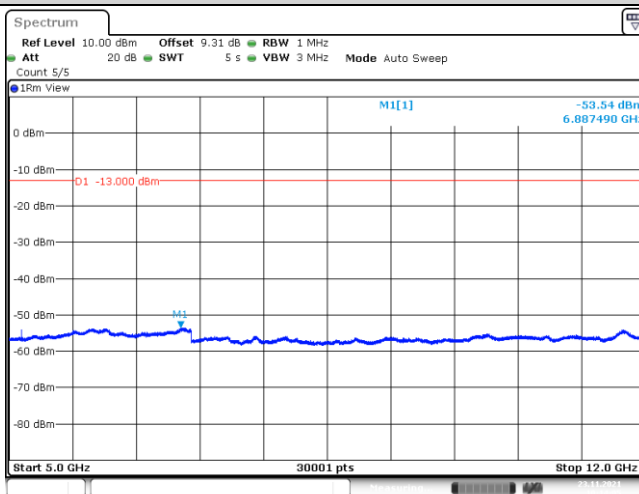
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Band66-1.4MHz-16QAM-131979-1-0-Low-1000-5000--38.48-PASS



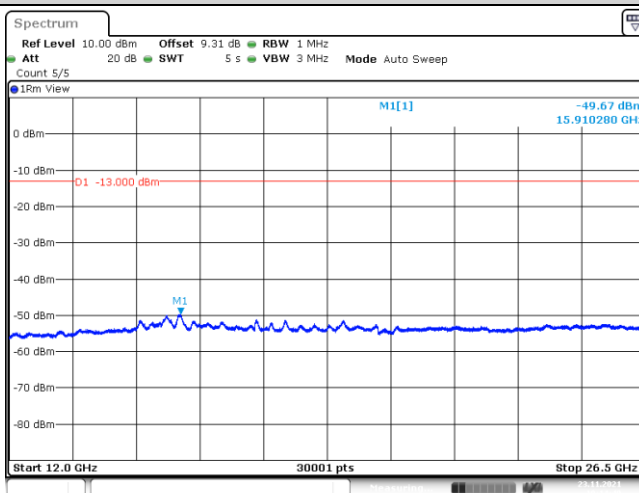
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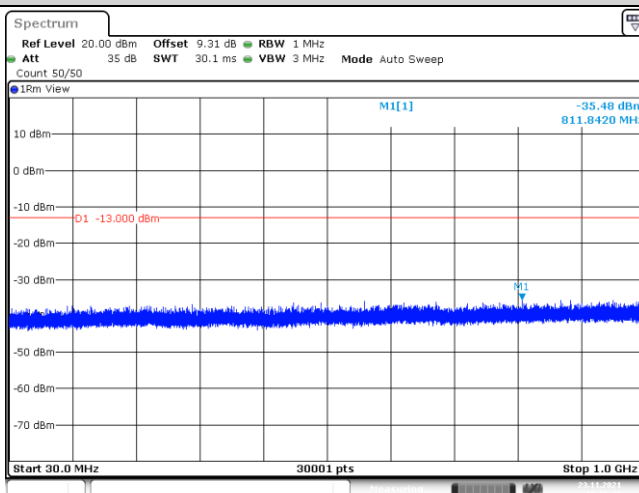
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Band66-1.4MHz-16QAM-131979-1-0-Low-12000-26500--49.67-PASS



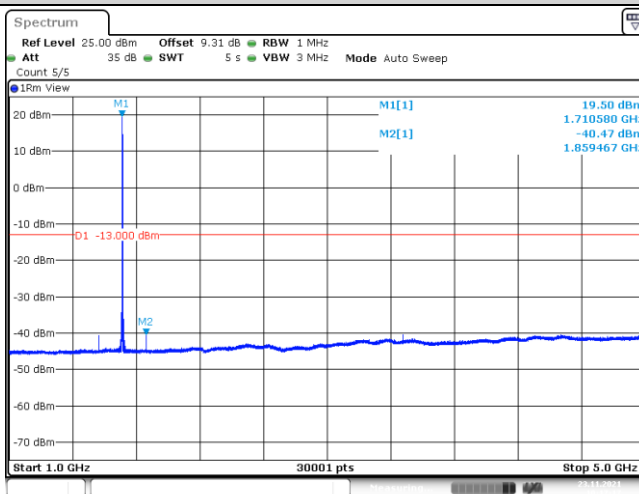
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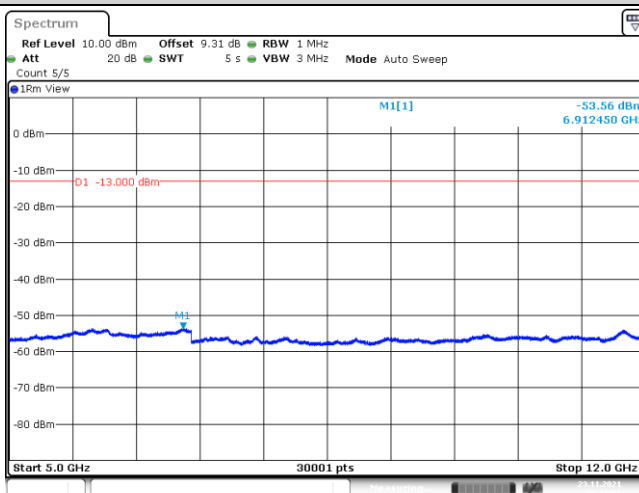
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Band66-1.4MHz-16QAM-131979-6-0-Low-1000-5000--40.47-PASS



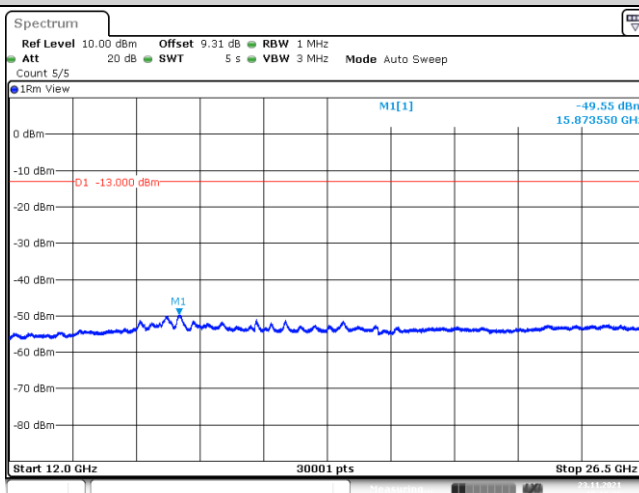
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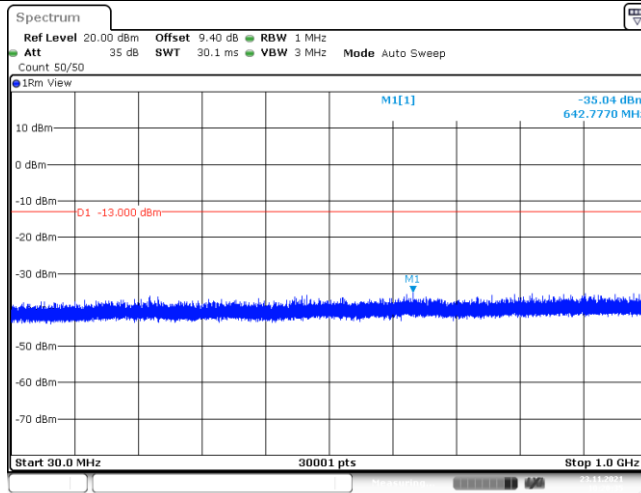
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Band66-1.4MHz-16QAM-131979-6-0-Low-12000-26500--49.55-PASS



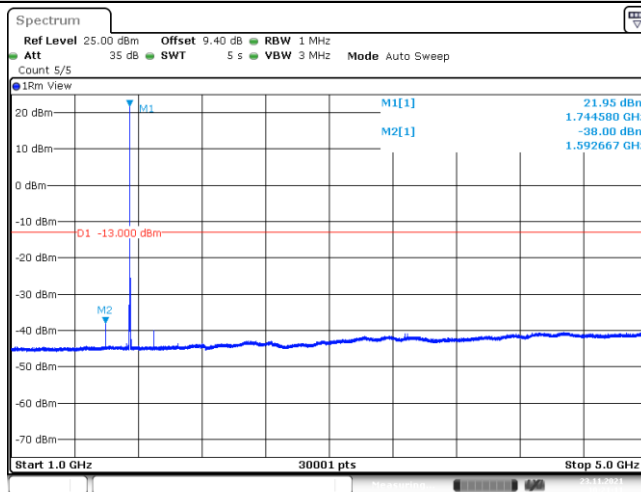
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Band66-1.4MHz-16QAM-132322-1-0-Low-30-1000--35.04-PASS



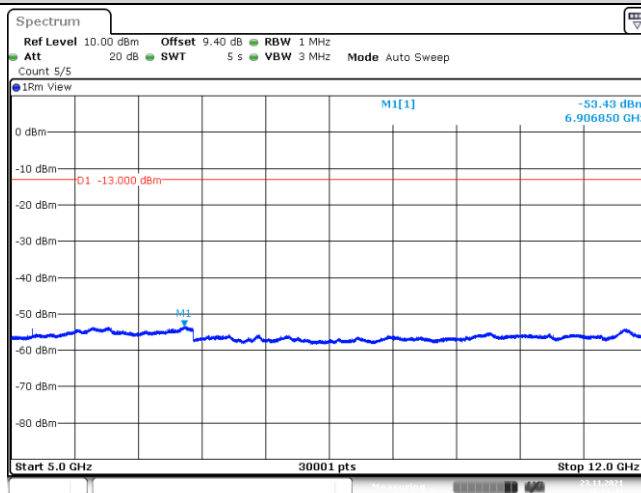
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Band66-1.4MHz-16QAM-132322-1-0-Low-1000-5000--38-PASS



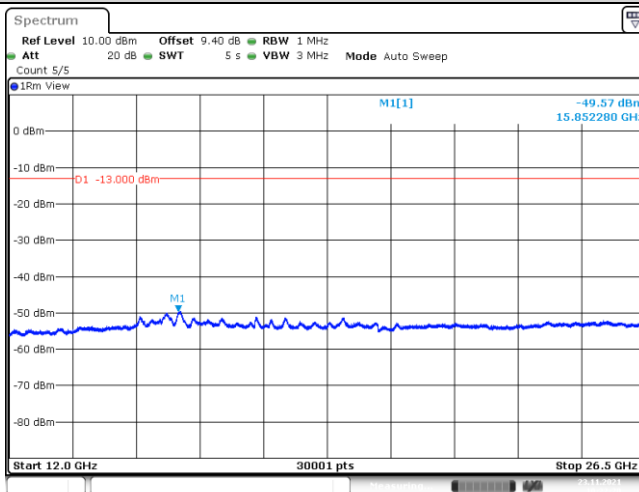
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Band66-1.4MHz-16QAM-132322-1-0-Low-5000-12000--53.43-PASS



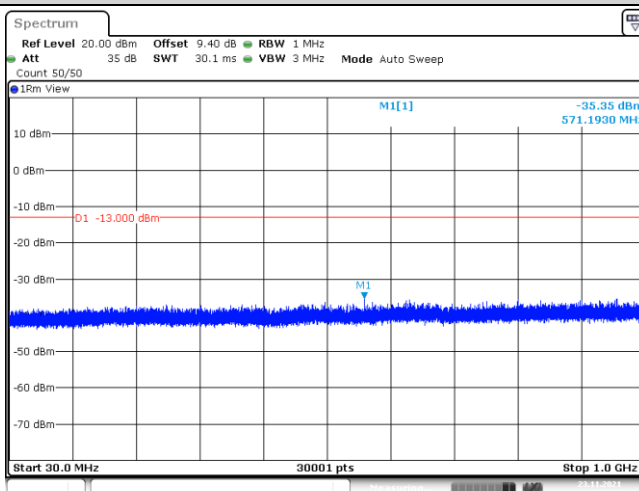
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Band66-1.4MHz-16QAM-132322-1-0-Low-12000-26500--49.57-PASS



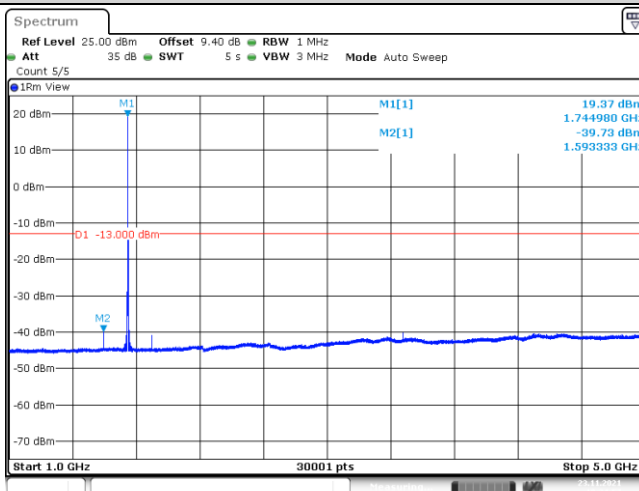
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Band66-1.4MHz-16QAM-132322-6-0-Low-30-1000--35.35-PASS



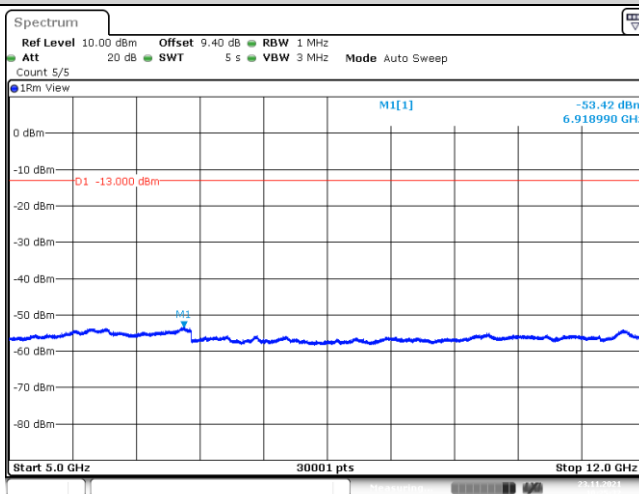
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Band66-1.4MHz-16QAM-132322-6-0-Low-1000-5000--39.73-PASS



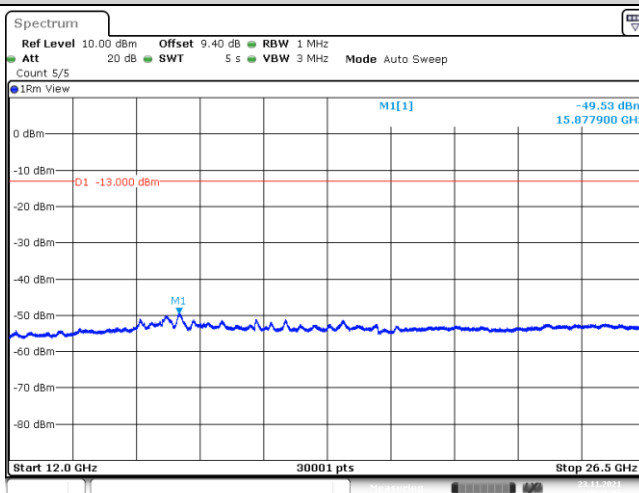
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Band66-1.4MHz-16QAM-132322-6-0-Low-5000-12000--53.42-PASS



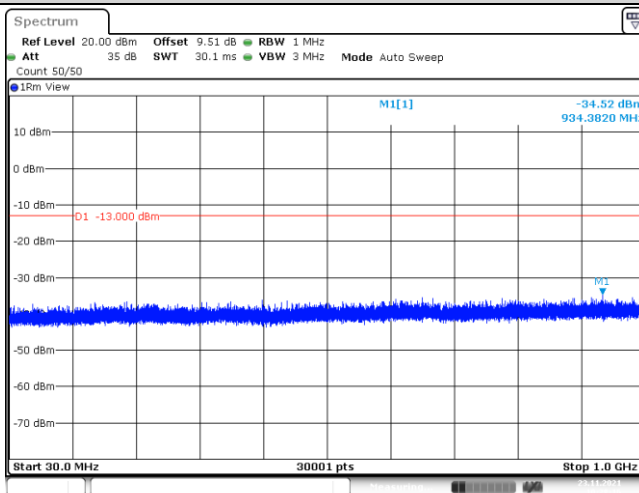
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Band66-1.4MHz-16QAM-132322-6-0-Low-12000-26500--49.53-PASS



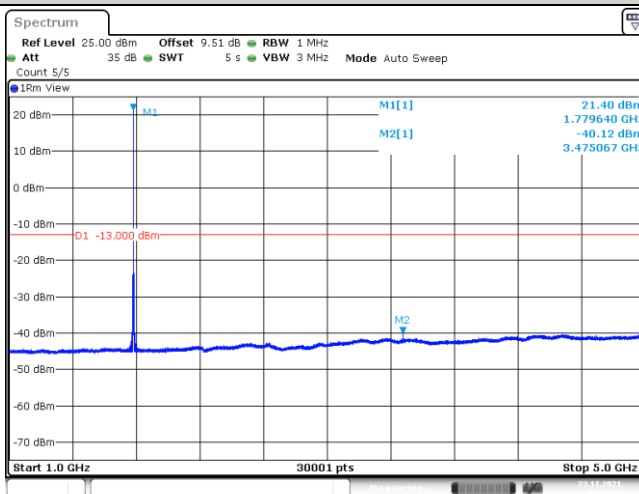
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Band66-1.4MHz-16QAM-132665-1-5-Low-30-1000--34.52-PASS



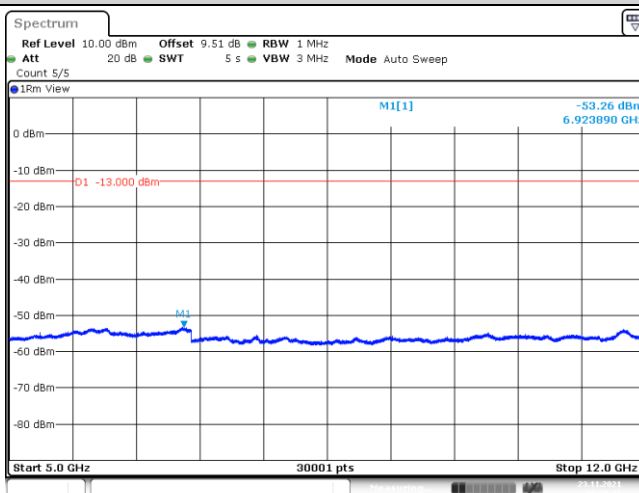
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Band66-1.4MHz-16QAM-132665-1-5-Low-1000-5000--40.12-PASS



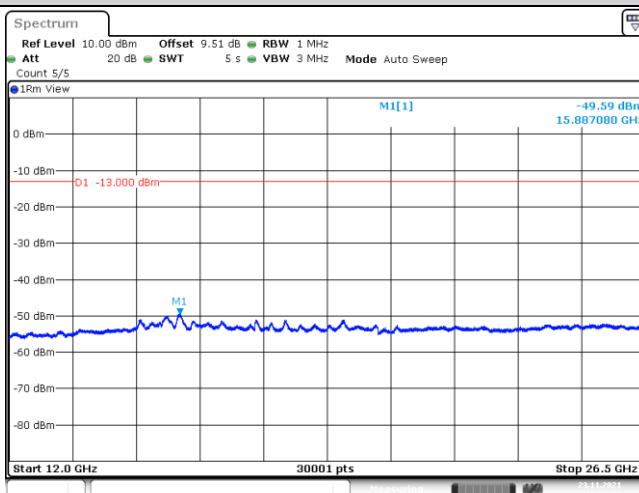
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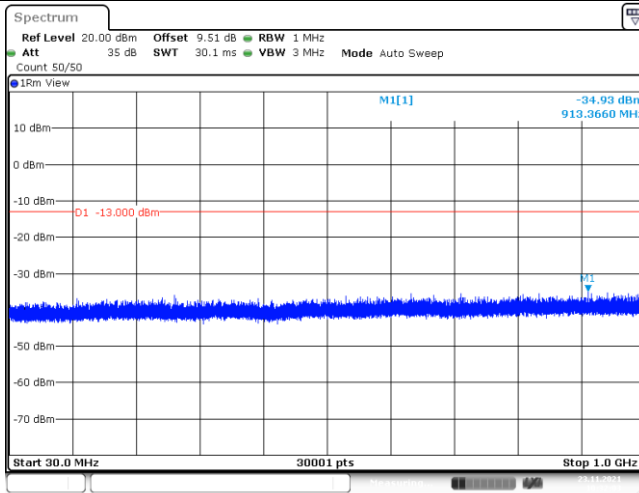
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Band66-1.4MHz-16QAM-132665-1-5-Low-12000-26500--49.59-PASS



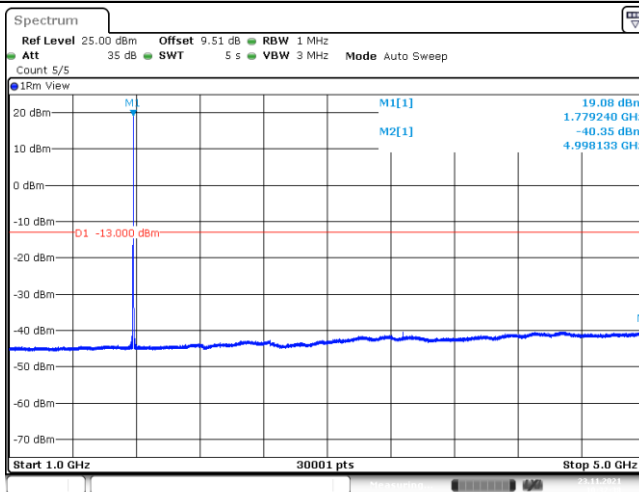
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Band66-1.4MHz-16QAM-132665-6-0-Low-30-1000--34.93-PASS



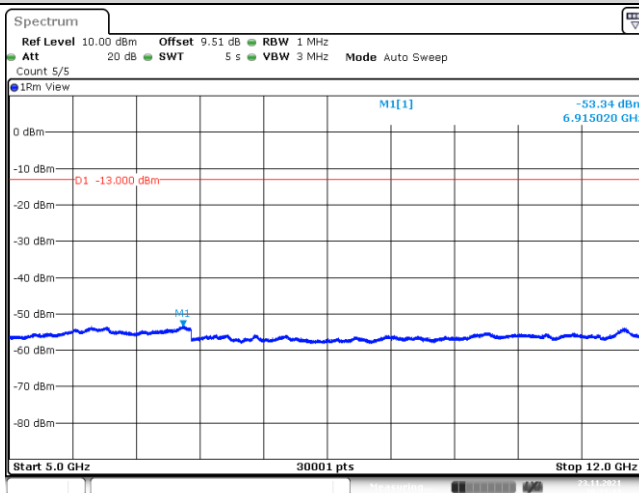
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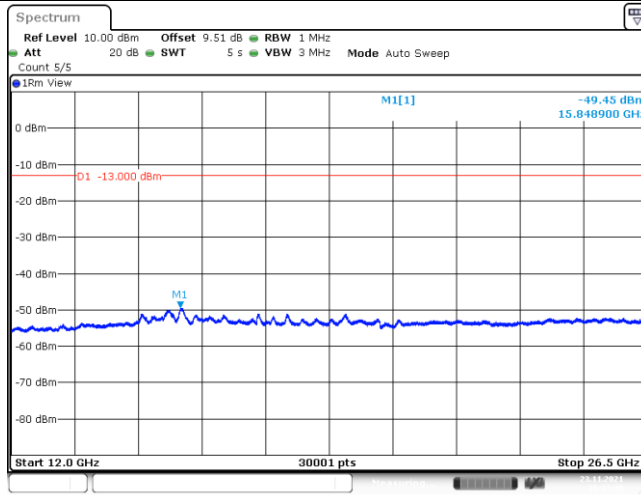
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Band66-1.4MHz-16QAM-132665-6-0-Low-5000-12000--53.34-PASS



Date: 23.NOV.2021 10:33:13

Band66-1.4MHz-16QAM-132665-6-0-Low-12000-26500--49.45-PASS



APPENDIX J.6: FREQUENCY STABILITY FOR M1

Test Result

| Voltage | | | | | | | | | | | | |
|---------|-----------|---------|------------|---------|----------|-------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Channel | Modulation | RB Size | RB Start | Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | HV | NT | -10.37 | -0.005943 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | LV | NT | -11.03 | -0.006321 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | NT | -9.88 | -0.005662 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | HV | NT | -8.25 | -0.004728 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | LV | NT | -10.30 | -0.005903 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | NT | -6.44 | -0.003691 | ±2.5 | PASS |

| Temperature | | | | | | | | | | | | |
|-------------|-----------|------------|---------|---------|----------|-------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 85 | -10.11 | -0.00579 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | -30 | -11.30 | -0.00648 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | -20 | -8.18 | -0.00469 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | -10 | -6.84 | -0.00392 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 0 | -8.50 | -0.00487 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 10 | -8.58 | -0.00492 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 20 | -9.13 | -0.00523 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 30 | -10.40 | -0.00596 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 40 | -8.37 | -0.00480 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 50 | -8.48 | -0.00486 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 60 | -10.13 | -0.00581 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 70 | -7.44 | -0.00426 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | -40 | -7.31 | -0.00419 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | QPSK | 1 | 0 | Low | NV | 80 | -6.17 | -0.00354 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 85 | -5.68 | -0.00326 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | -30 | -6.62 | -0.00379 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | -20 | -9.46 | -0.00542 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | -10 | -8.15 | -0.00467 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 0 | -7.93 | -0.00454 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 10 | -6.22 | -0.00356 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 20 | -7.50 | -0.00430 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 30 | -9.44 | -0.00541 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 40 | -6.29 | -0.00361 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 50 | -7.71 | -0.00442 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 60 | -12.17 | -0.00697 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 70 | -5.98 | -0.00343 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | 80 | -10.77 | -0.00617 | ±2.5 | PASS |
| Band66 | 1.4MHz | 132322 | 16QAM | 1 | 0 | Low | NV | -40 | -9.70 | -0.00556 | ±2.5 | PASS |