

Appendix A: Test Results of Band 2 for eMTC operation

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Appendix A.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result (dBm) | EIRP | | Limit (watts) | Verdict |
|-------|-----------|------------|---------|---------|----------|---------|--------------|-------|-------|---------------|---------|
| | | | | | | | | dBm | Watts | | |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | 21.96 | 24.10 | 0.257 | 2 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | 21.98 | 24.12 | 0.258 | 2 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | 21.76 | 23.90 | 0.245 | 2 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | 19.76 | 21.90 | 0.155 | 2 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 19.83 | 21.97 | 0.157 | 2 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | 19.78 | 21.92 | 0.156 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | 20.99 | 23.13 | 0.206 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | 20.92 | 23.06 | 0.202 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | 20.61 | 22.75 | 0.188 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | 19.75 | 21.89 | 0.155 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 19.71 | 21.85 | 0.153 | 2 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | 19.74 | 21.88 | 0.154 | 2 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1 | 0 | Low | 21.99 | 24.13 | 0.259 | 2 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1 | 0 | Low | 21.83 | 23.97 | 0.249 | 2 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1 | 5 | High | 21.73 | 23.87 | 0.244 | 2 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 6 | 0 | Low | 19.7 | 21.84 | 0.153 | 2 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 6 | 0 | Low | 19.68 | 21.82 | 0.152 | 2 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 6 | 0 | High | 19.6 | 21.74 | 0.149 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1 | 0 | Low | 21.09 | 23.23 | 0.210 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1 | 0 | Low | 20.99 | 23.13 | 0.206 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1 | 5 | High | 20.87 | 23.01 | 0.200 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 6 | 0 | Low | 19.7 | 21.84 | 0.153 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 6 | 0 | Low | 19.61 | 21.75 | 0.150 | 2 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 6 | 0 | High | 19.67 | 21.81 | 0.152 | 2 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1 | 0 | Low | 21.86 | 24.00 | 0.251 | 2 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1 | 0 | Low | 21.87 | 24.01 | 0.252 | 2 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 1 | 5 | High | 21.63 | 23.77 | 0.238 | 2 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 3 | 3 | High | 21.74 | 23.88 | 0.244 | 2 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 6 | 0 | Low | 20.75 | 22.89 | 0.195 | 2 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 6 | 0 | Low | 20.67 | 22.81 | 0.191 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1 | 0 | Low | 21.62 | 23.76 | 0.238 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1 | 0 | Low | 21.61 | 23.75 | 0.237 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1 | 5 | High | 21.39 | 23.53 | 0.225 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 3 | 3 | High | 21.63 | 23.77 | 0.238 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 6 | 0 | Low | 20.66 | 22.80 | 0.191 | 2 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 6 | 0 | Low | 20.79 | 22.93 | 0.196 | 2 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 1 | 0 | Low | 21.82 | 23.96 | 0.249 | 2 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 1 | 0 | Low | 21.91 | 24.05 | 0.254 | 2 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 1 | 5 | High | 21.69 | 23.83 | 0.242 | 2 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 5 | 0 | Low | 21.72 | 23.86 | 0.243 | 2 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 5 | 0 | Low | 21.78 | 23.92 | 0.247 | 2 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 5 | 1 | High | 21.72 | 23.86 | 0.243 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1 | 0 | Low | 21.58 | 23.72 | 0.236 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1 | 0 | Low | 21.62 | 23.76 | 0.238 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1 | 5 | High | 21.39 | 23.53 | 0.225 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 5 | 0 | Low | 21.63 | 23.77 | 0.238 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 5 | 0 | Low | 21.6 | 23.74 | 0.237 | 2 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 5 | 1 | High | 21.57 | 23.71 | 0.235 | 2 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1 | 0 | Low | 21.91 | 24.05 | 0.254 | 2 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1 | 0 | Low | 21.88 | 24.02 | 0.252 | 2 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1 | 5 | High | 21.65 | 23.79 | 0.239 | 2 | PASS |

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|-------|-------|-------|-------|---|---|------|-------|-------|-------|---|------|
| Band2 | 15MHz | QPSK | 18675 | 6 | 0 | Low | 21.77 | 23.91 | 0.246 | 2 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 6 | 0 | Low | 21.71 | 23.85 | 0.243 | 2 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 6 | 0 | High | 21.68 | 23.82 | 0.241 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1 | 0 | Low | 21.72 | 23.86 | 0.243 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1 | 0 | Low | 21.64 | 23.78 | 0.239 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1 | 5 | High | 21.39 | 23.53 | 0.225 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 6 | 0 | Low | 21.79 | 23.93 | 0.247 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 6 | 0 | Low | 21.7 | 23.84 | 0.242 | 2 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 6 | 0 | High | 21.69 | 23.83 | 0.242 | 2 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 1 | 0 | Low | 21.83 | 23.97 | 0.249 | 2 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 1 | 0 | Low | 21.98 | 24.12 | 0.258 | 2 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 1 | 5 | High | 21.68 | 23.82 | 0.241 | 2 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 6 | 0 | Low | 21.79 | 23.93 | 0.247 | 2 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 6 | 0 | Low | 21.83 | 23.97 | 0.249 | 2 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 6 | 0 | High | 21.71 | 23.85 | 0.243 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1 | 0 | Low | 21.61 | 23.75 | 0.237 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1 | 0 | Low | 21.64 | 23.78 | 0.239 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1 | 5 | High | 21.41 | 23.55 | 0.226 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 6 | 0 | Low | 21.87 | 24.01 | 0.252 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 6 | 0 | Low | 21.85 | 23.99 | 0.251 | 2 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 6 | 0 | High | 21.71 | 23.85 | 0.243 | 2 | PASS |

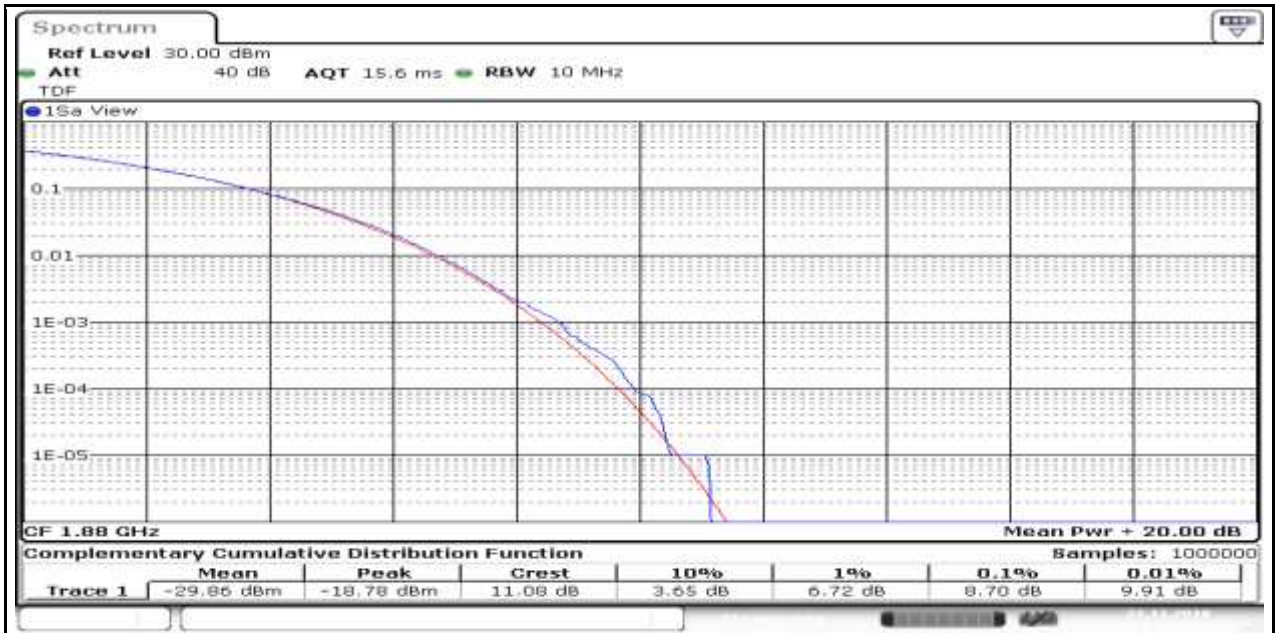
Appendix A.2: Peak-to-Average Ratio (CCDF) for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band2 | 20MHz | QPSK | 18900 | 6 | 0 | Low | 11.71 | <=13 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 6 | 0 | Low | 8.70 | <=13 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 6 | 0 | Low | 4.67 | <=13 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 6 | 0 | Low | 9.97 | <=13 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 6 | 0 | Low | 12.29 | <=13 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 4.87 | <=13 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 6 | 0 | Low | 8.52 | <=13 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 6 | 0 | Low | 10.52 | <=13 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 6 | 0 | Low | 9.10 | <=13 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 6 | 0 | Low | 11.51 | <=13 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 6 | 0 | Low | 9.39 | <=13 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 11.71 | <=13 | PASS |

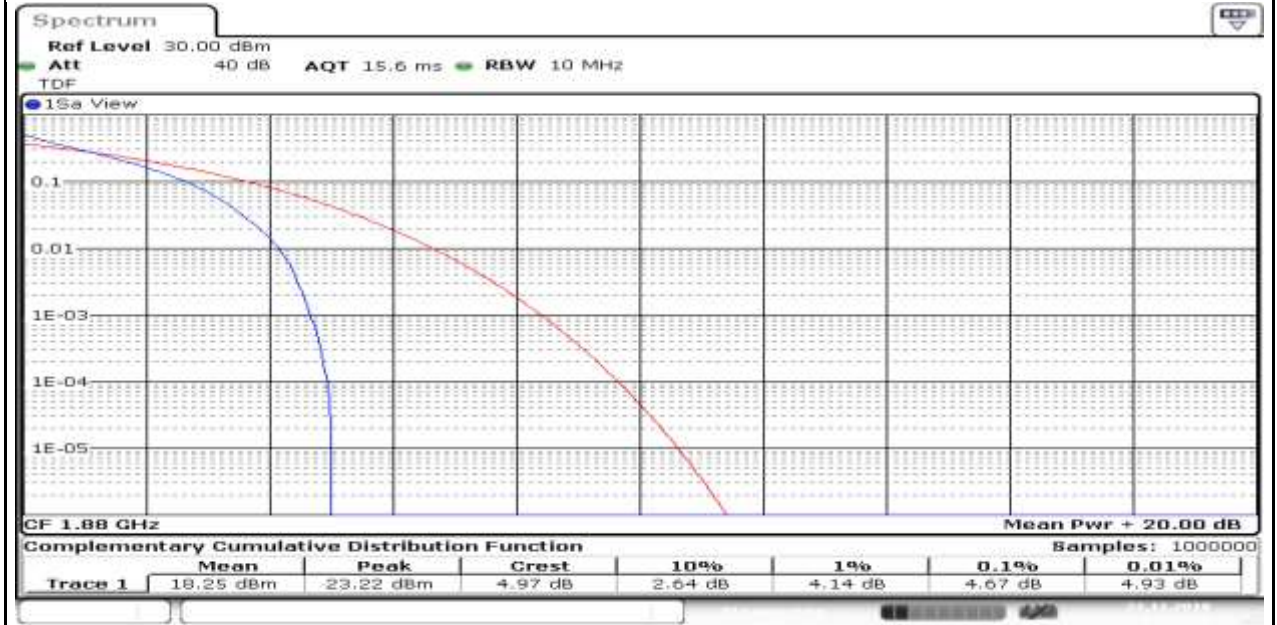
Test Graphs





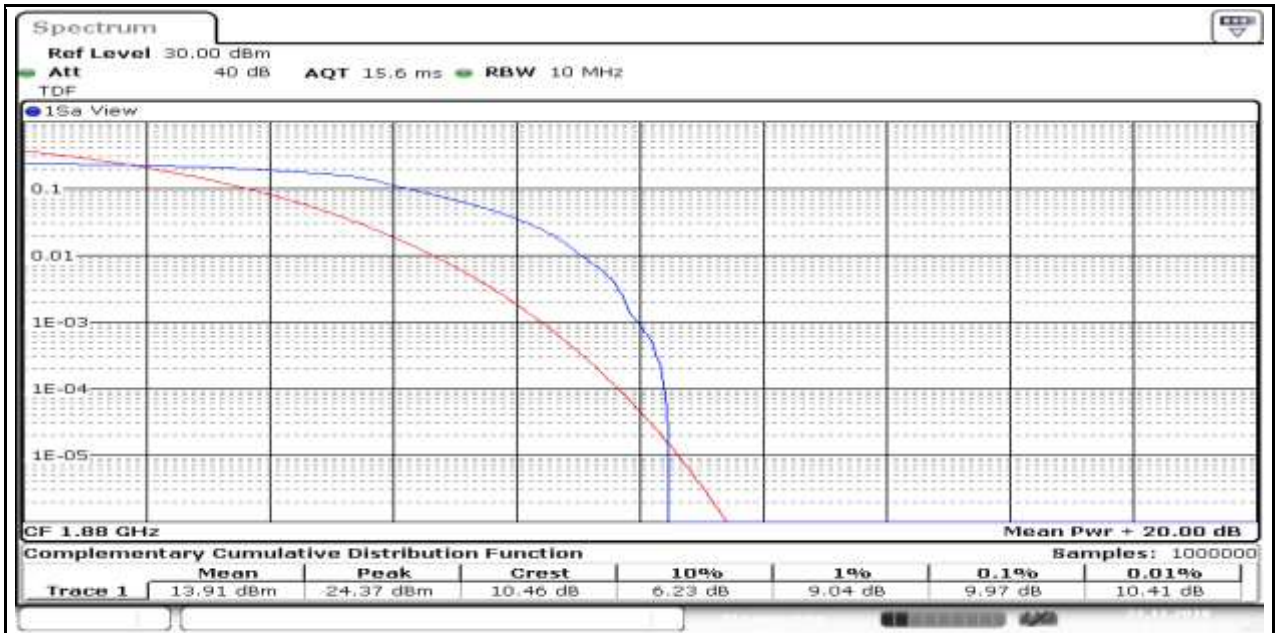
Date: 22.NOV.2019 09:08:54

Band2_10MHz_QPSK_18900_6_0_Low_4.67_<=13_PASS_



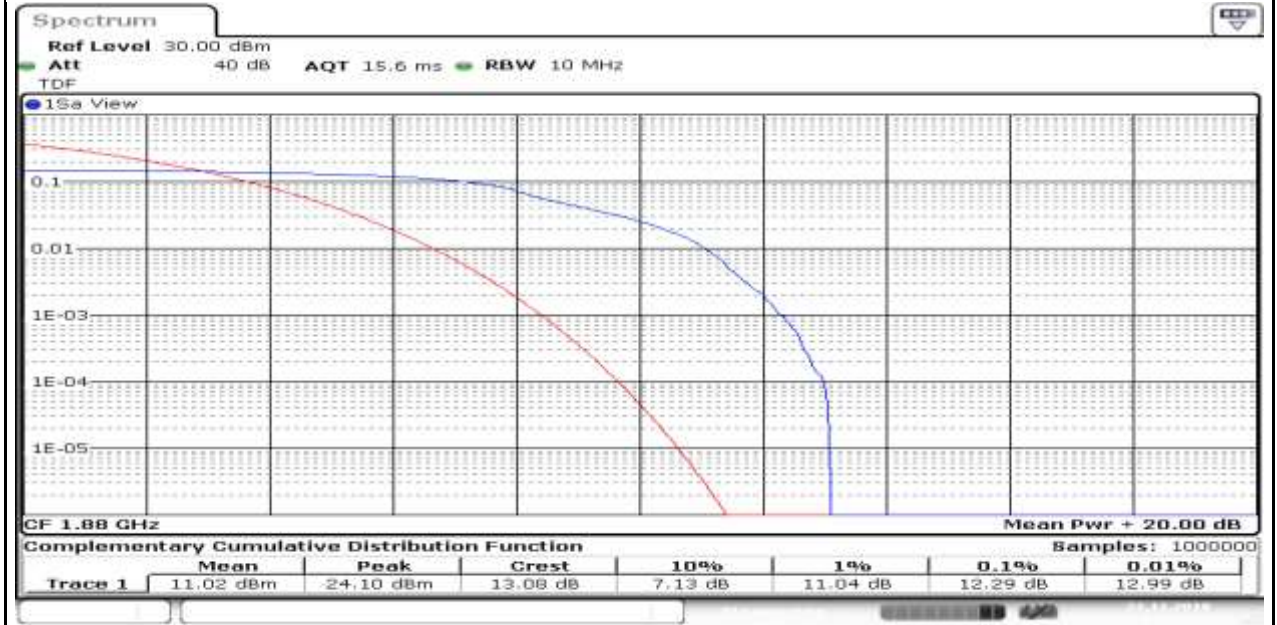
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Band2_5MHz_QPSK_18900_6_0_Low_9.97_<=13_PASS_



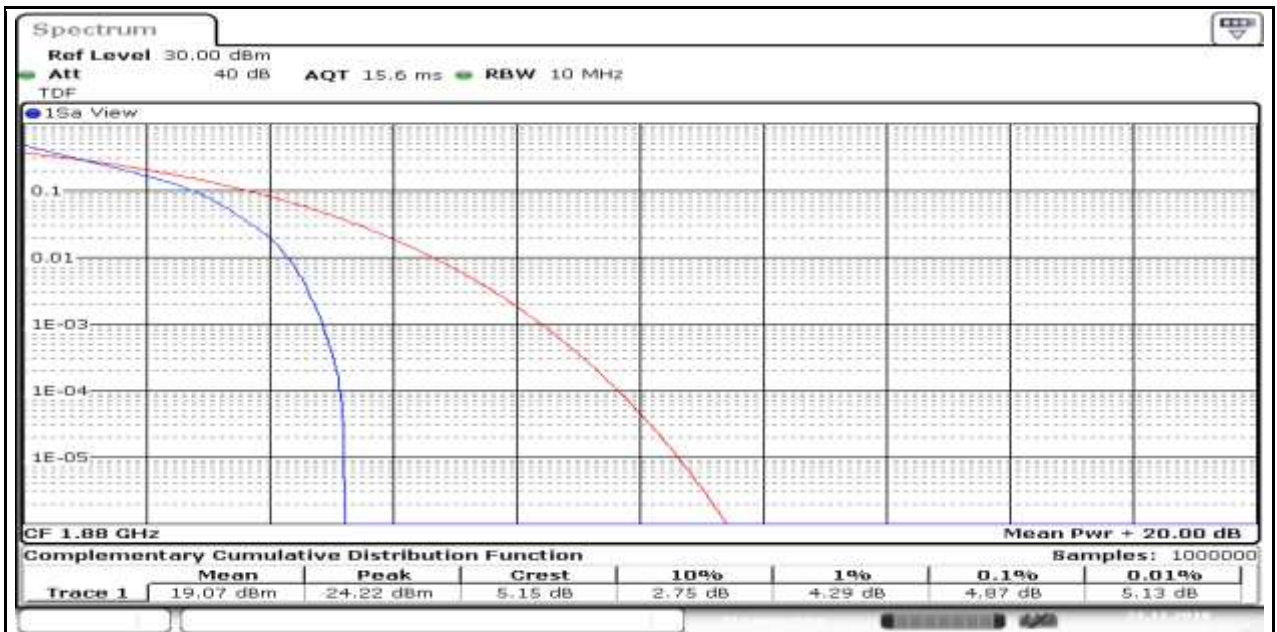
Date: 22.NOV.2019 09:04:46

Band2_3MHz_QPSK_18900_6_0_Low_12.29_<=13_PASS_



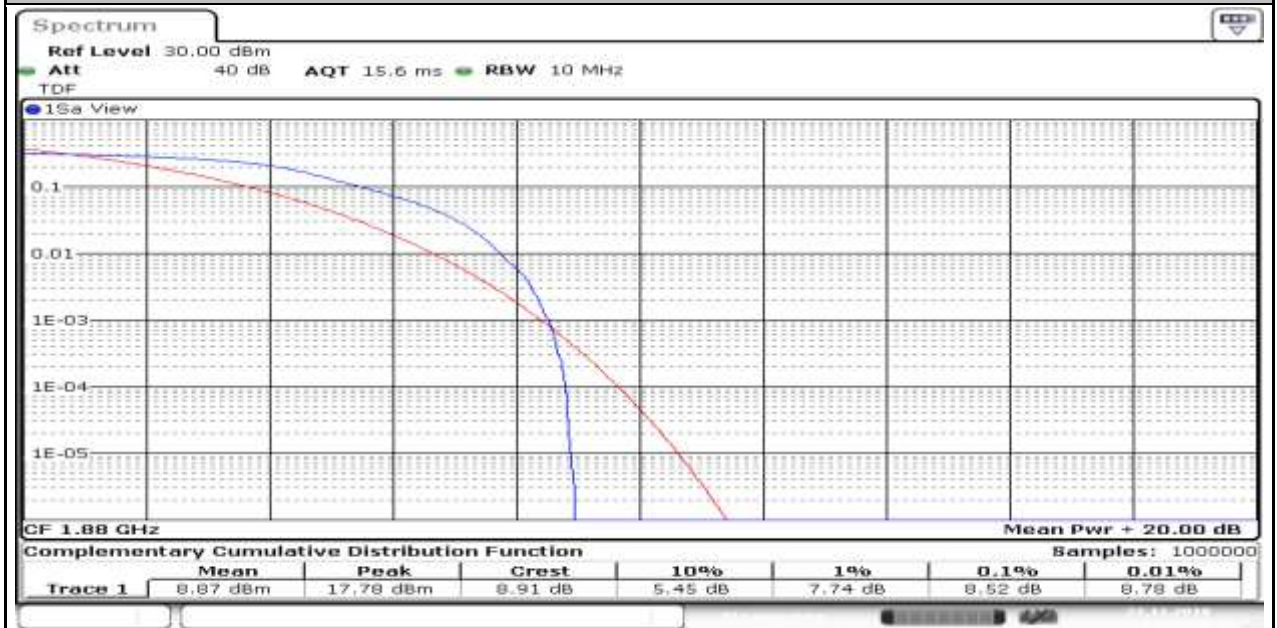
Date: 22.NOV.2019 09:02:41

Band2_1.4MHz_QPSK_18900_6_0_Low_4.87_<=13_PASS_



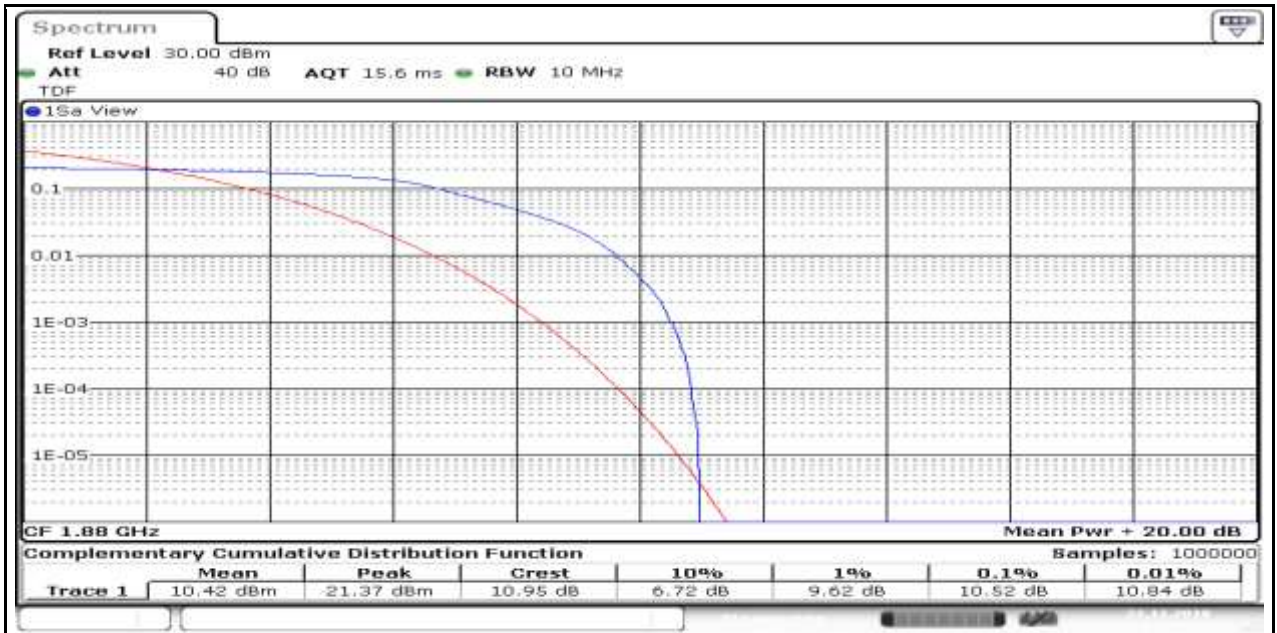
Date: 22.NOV.2019 08:57:07

Band2_20MHz_16QAM_18900_6_0_Low_8.52_<=13_PASS_



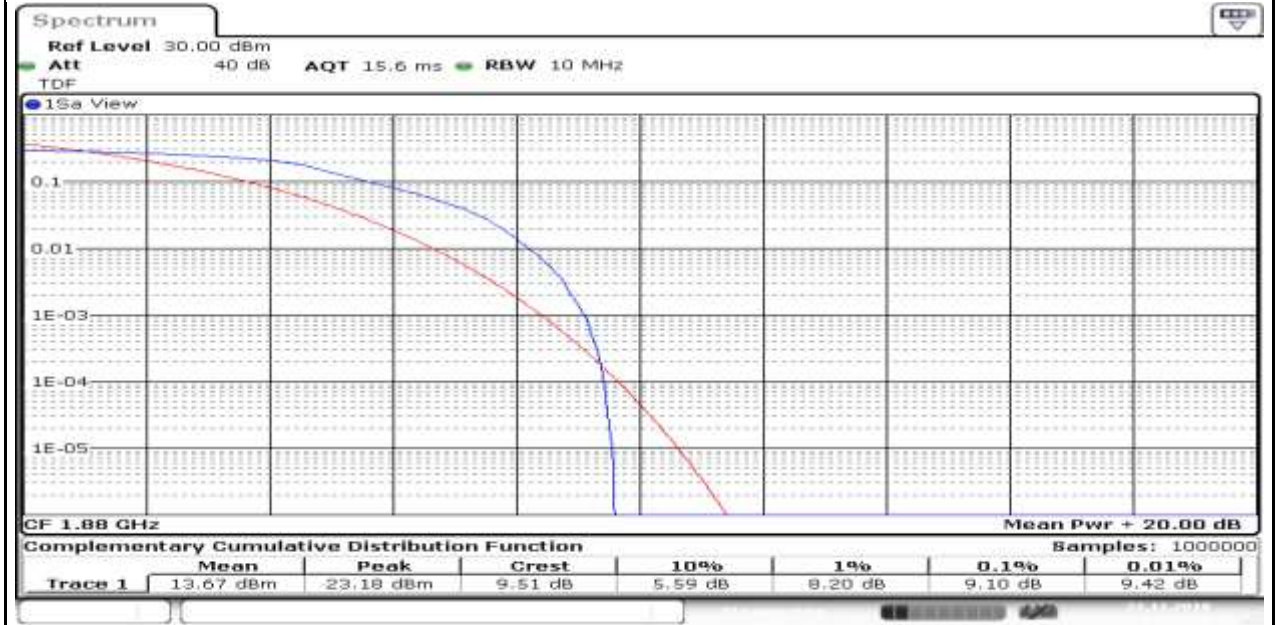
Date: 22.NOV.2019 09:11:15

Band2_15MHz_16QAM_18900_6_0_Low_10.52_<=13_PASS_



Date: 22.NOV.2019 09:09:11

Band2_10MHz_16QAM_18900_6_0_Low_9.10_<=13_PASS_



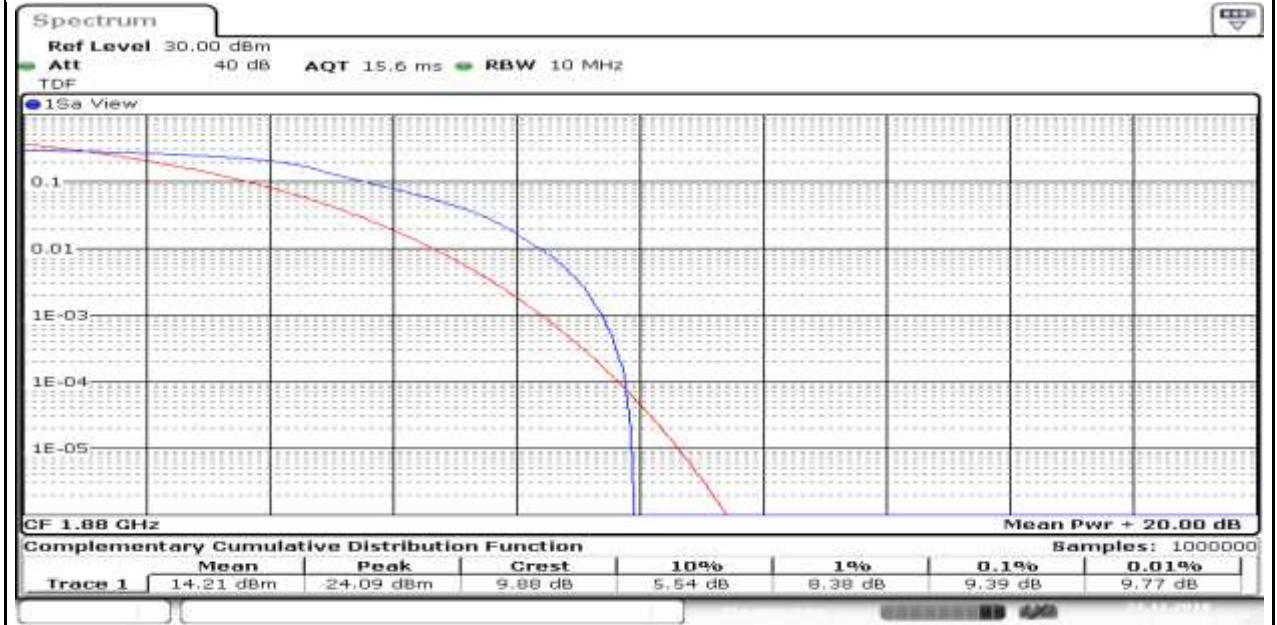
Date: 22.NOV.2019 09:07:06

Band2_5MHz_16QAM_18900_6_0_Low_11.51_<=13_PASS_



Date: 22.NOV.2019 09:05:02

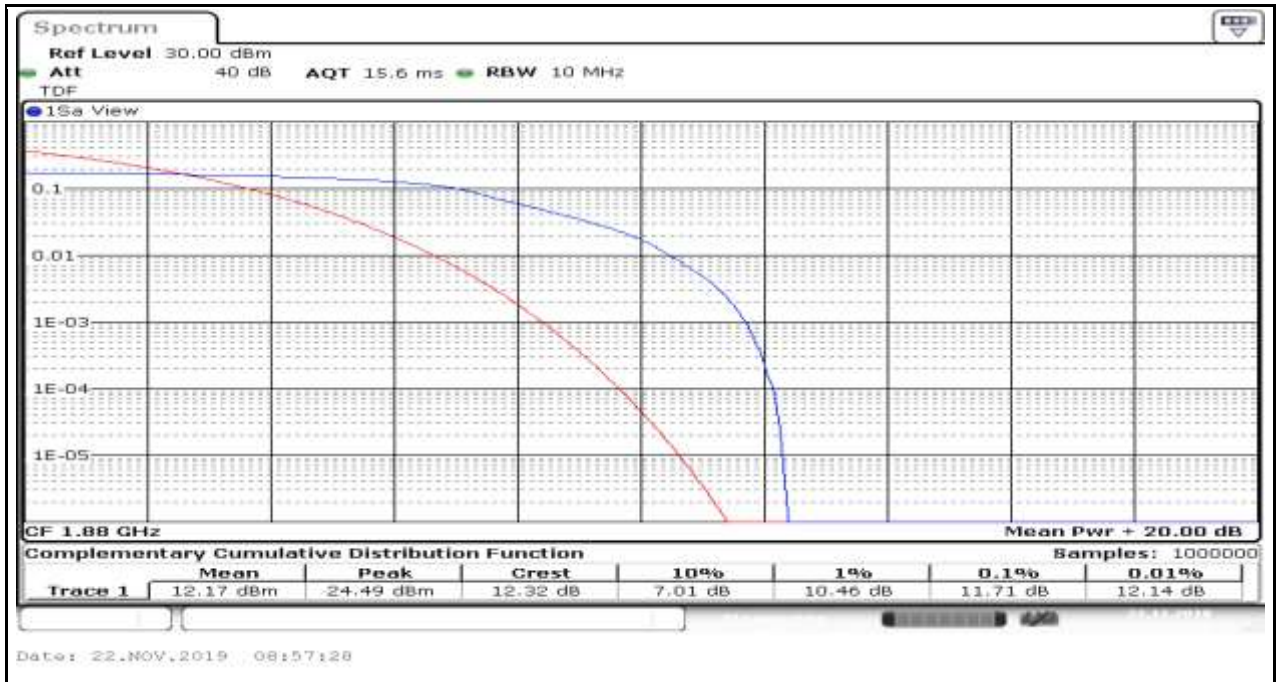
Band2_3MHz_16QAM_18900_6_0_Low_9.39_<=13_PASS_



Date: 22.NOV.2019 09:02:58

Band2_1.4MHz_16QAM_18900_6_0_Low_11.71_<=13_PASS_

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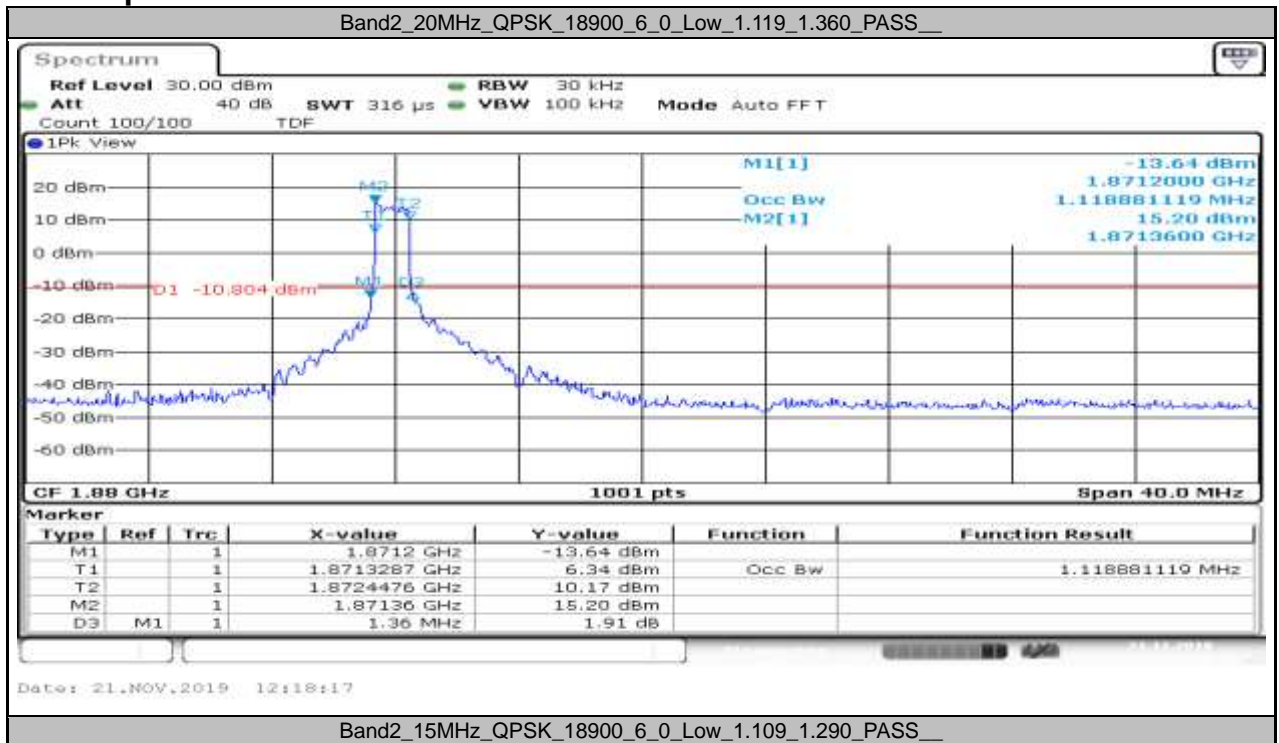


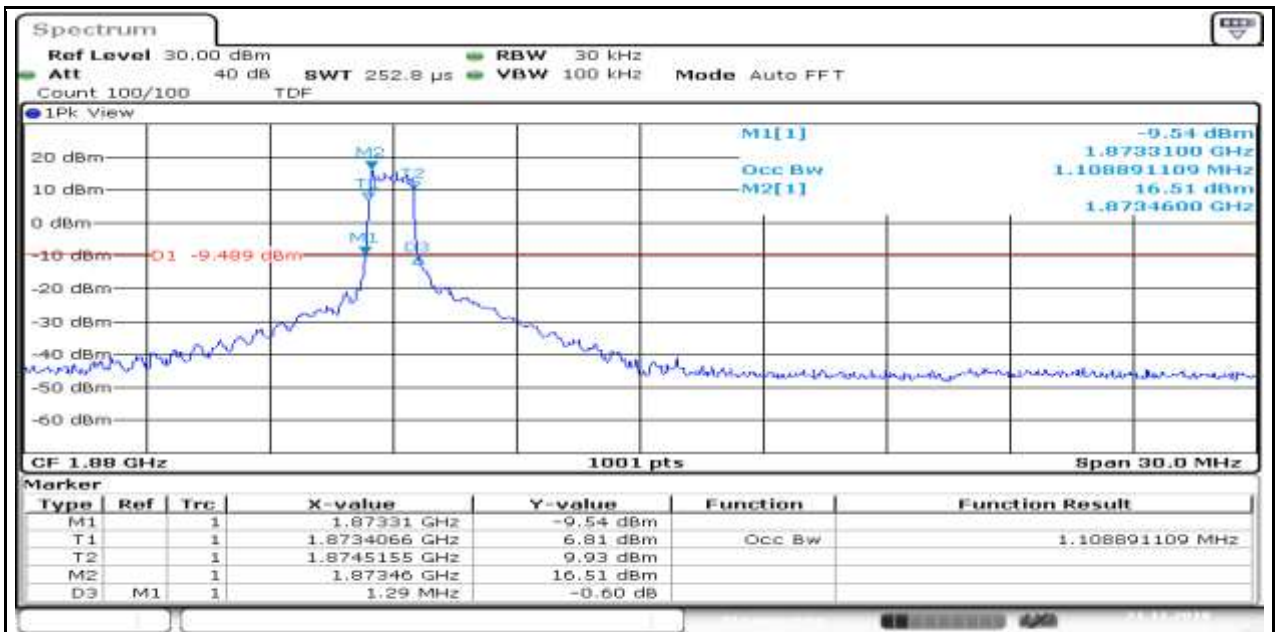
Appendix A.3: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band2 | 20MHz | QPSK | 18900 | 6 | 0 | Low | 1.119 | 1.360 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 6 | 0 | Low | 1.109 | 1.290 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 6 | 0 | Low | 1.099 | 1.300 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 6 | 0 | Low | 1.089 | 1.300 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 6 | 0 | Low | 1.097 | 1.290 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 1.091 | 1.290 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 6 | 0 | Low | 1.119 | 1.400 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 6 | 0 | Low | 1.109 | 1.350 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 6 | 0 | Low | 1.099 | 1.320 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 6 | 0 | Low | 1.099 | 1.330 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 6 | 0 | Low | 1.097 | 1.314 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 1.1 | 1.293 | PASS |

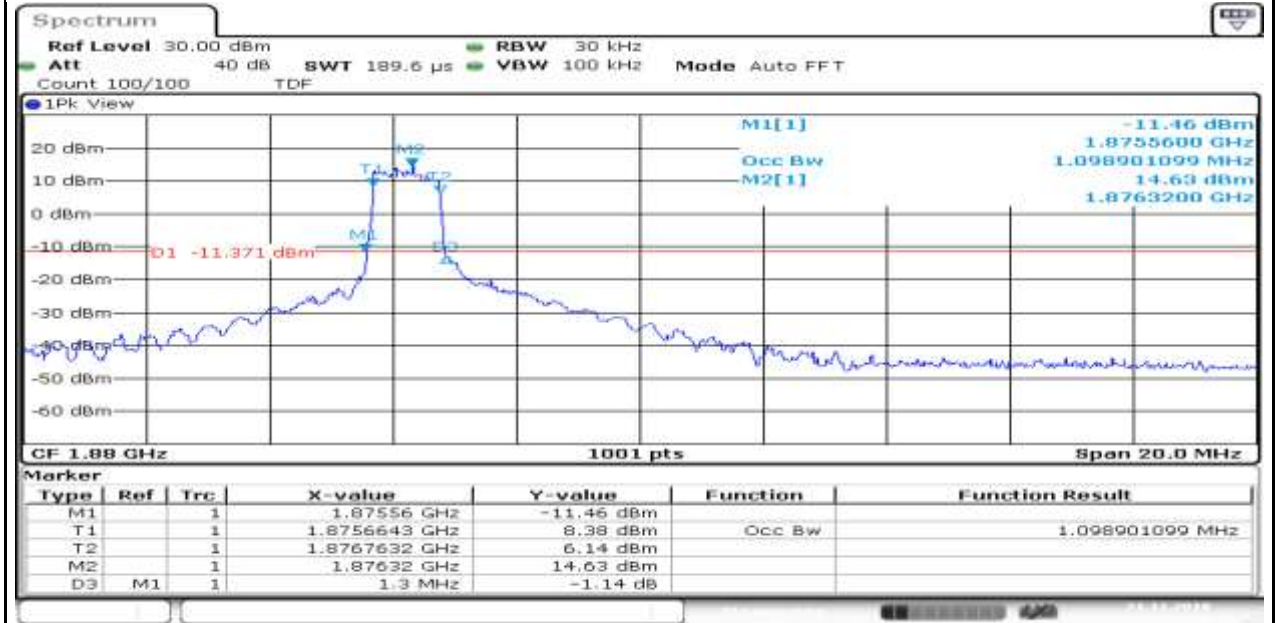
Test Graphs





Date: 21.NOV.2019 12:16:09

Band2_10MHz_QPSK_18900_6_0_Low_1.099_1.300_PASS_



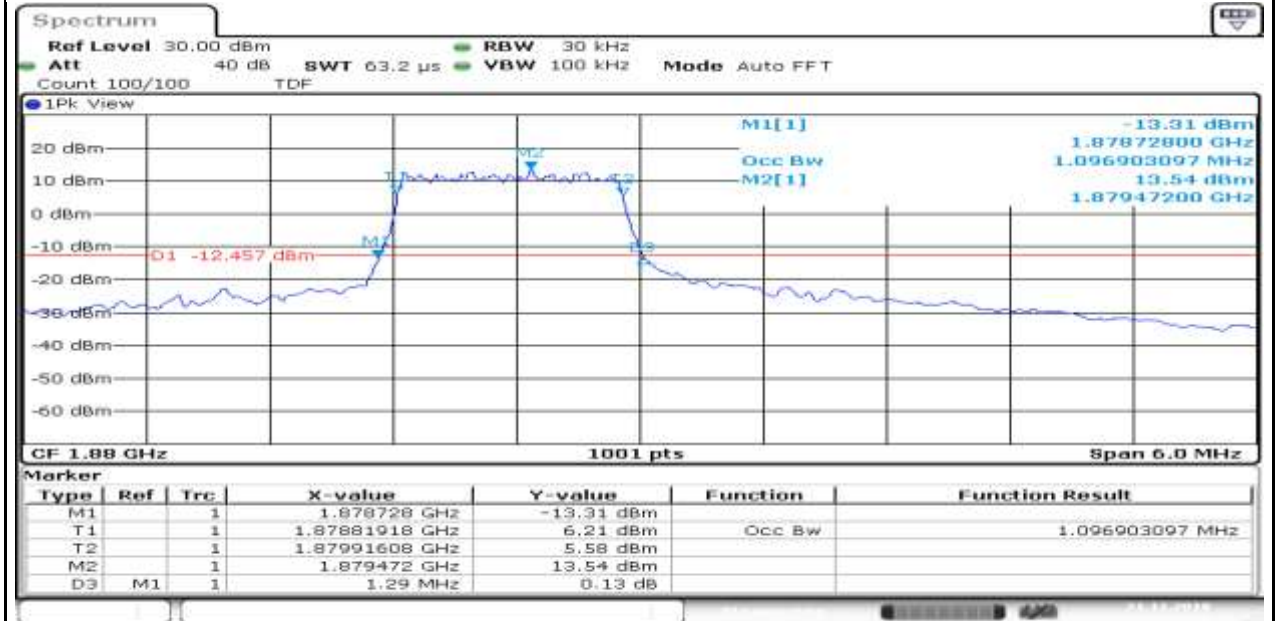
Date: 21.NOV.2019 12:14:32

Band2_5MHz_QPSK_18900_6_0_Low_1.089_1.300_PASS_



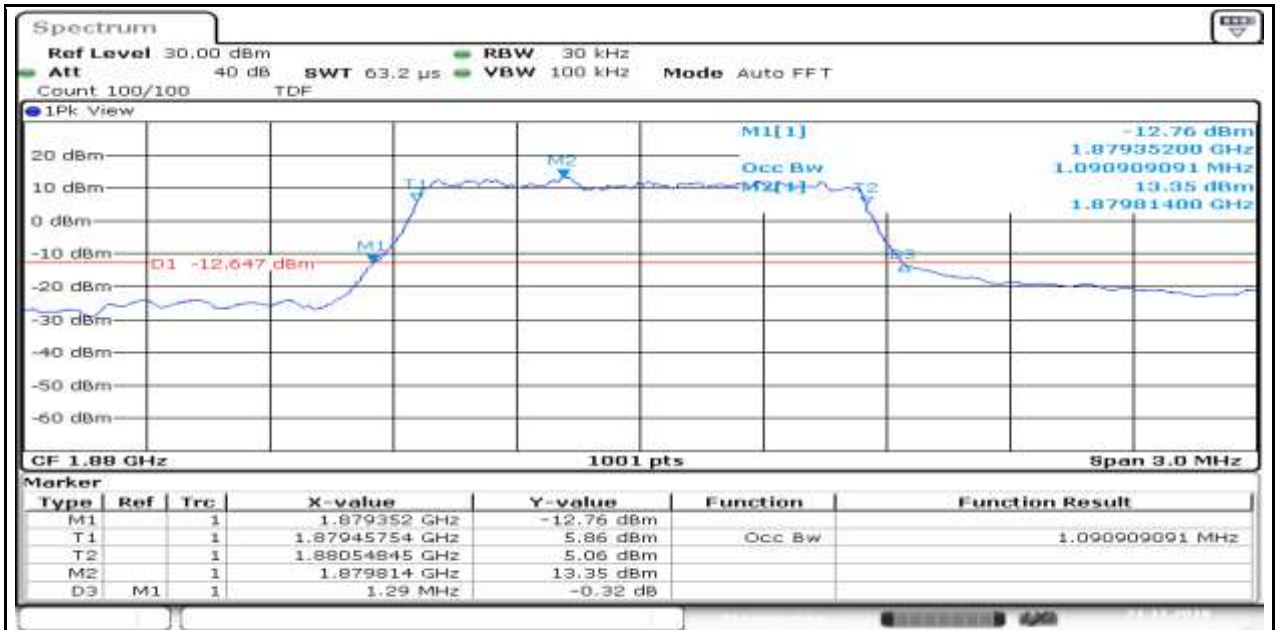
Date: 21.NOV.2019 12:13:30

Band2_3MHz_QPSK_18900_6_0_Low_1.097_1.290_PASS_



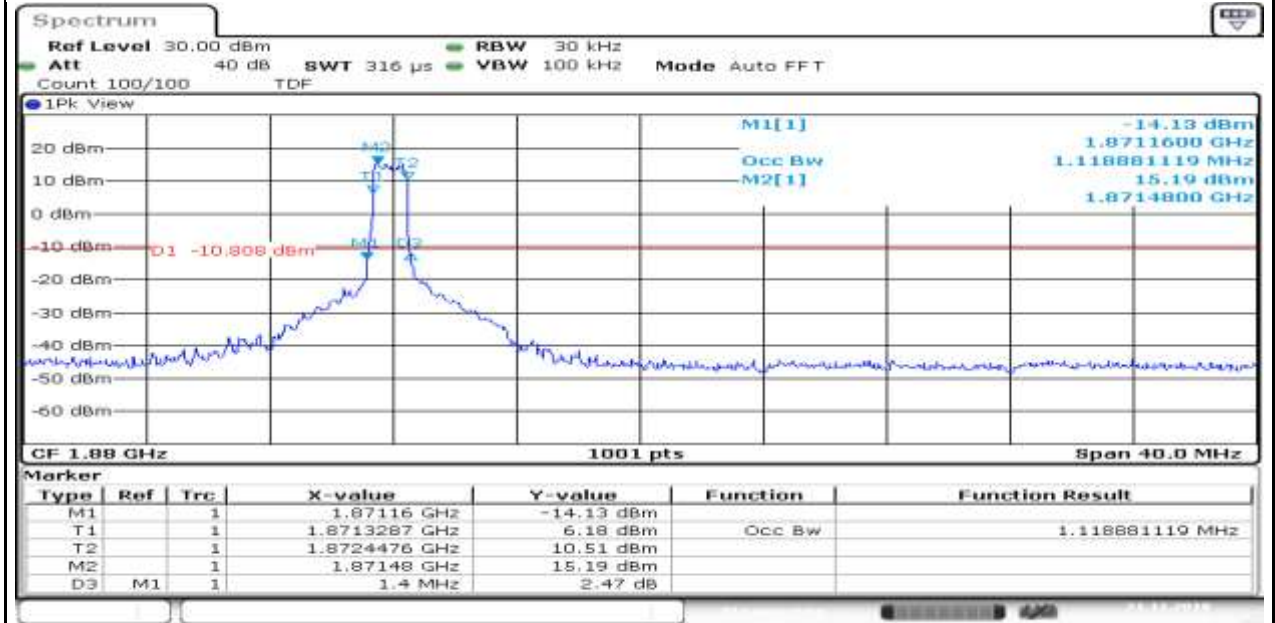
Date: 21.NOV.2019 12:12:25

Band2_1.4MHz_QPSK_18900_6_0_Low_1.091_1.290_PASS_



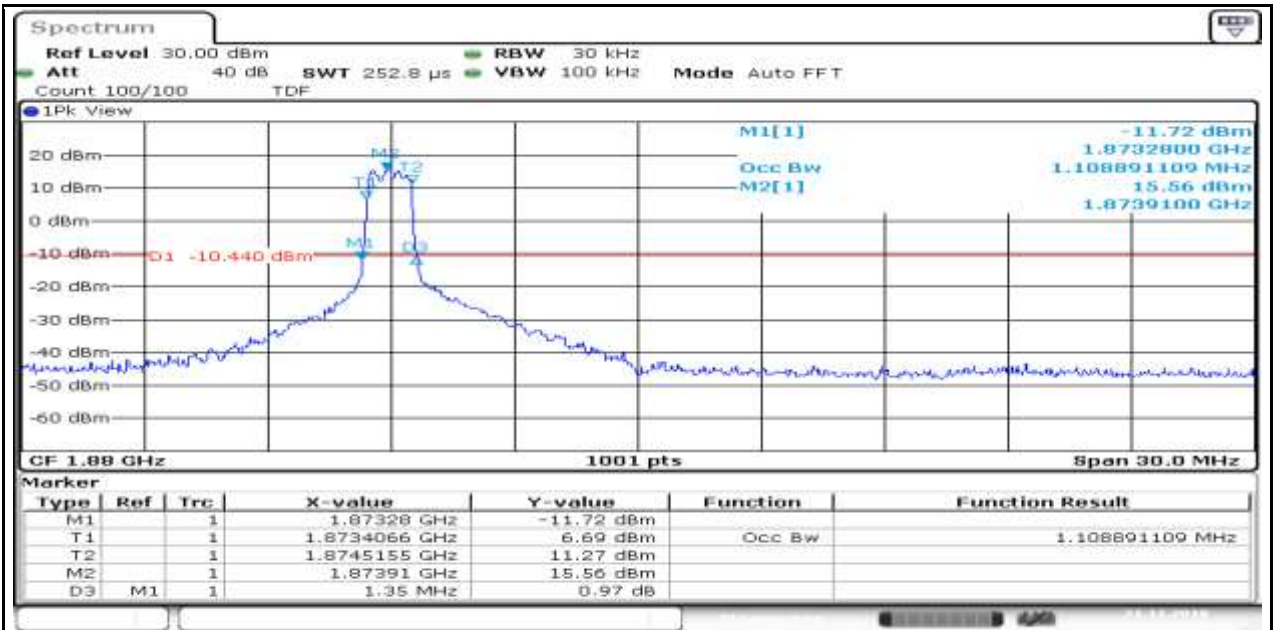
Date: 21.NOV.2019 12:11:19

Band2_20MHz_16QAM_18900_6_0_Low_1.119_1.400_PASS_



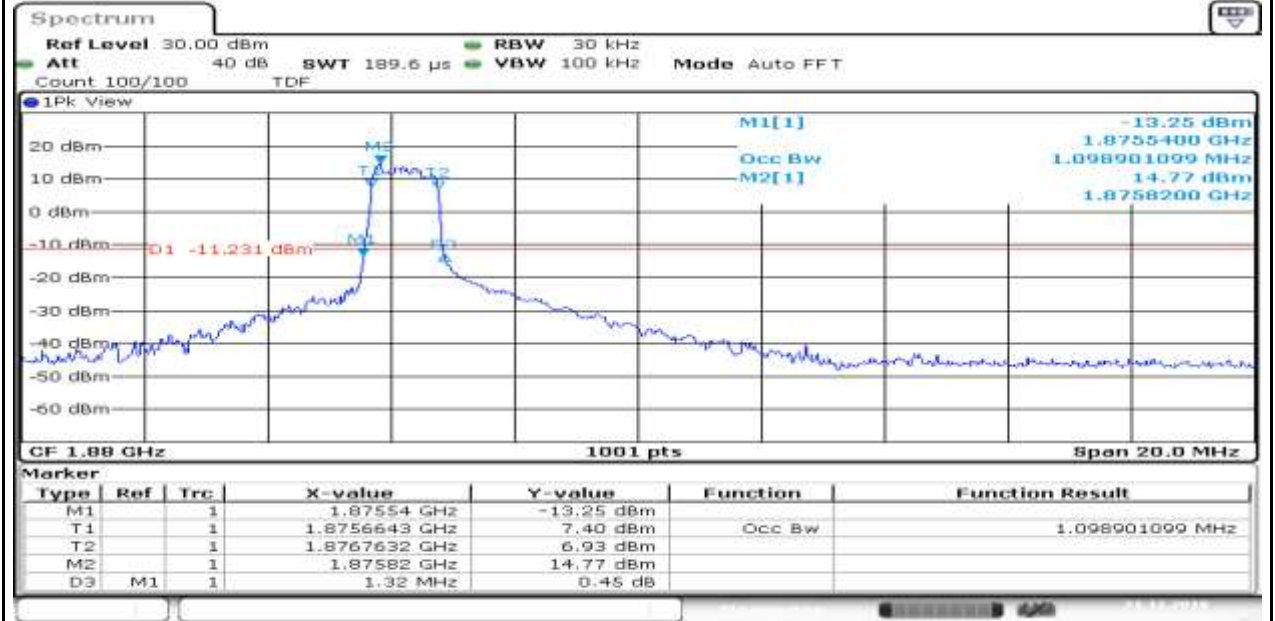
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Band2_15MHz_16QAM_18900_6_0_Low_1.109_1.350_PASS_



Date: 21.NOV.2019 12:16:27

Band2_10MHz_16QAM_18900_6_0_Low_1.099_1.320_PASS



Date: 21.NOV.2019 12:14:51

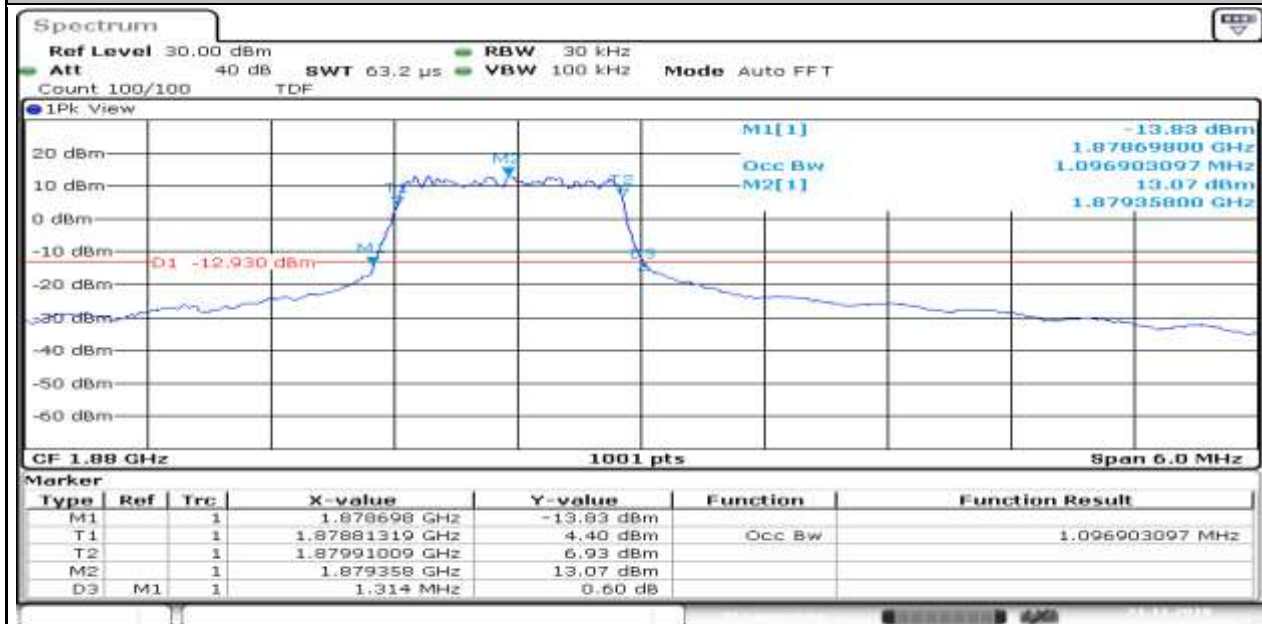
Band2_5MHz_16QAM_18900_6_0_Low_1.099_1.330_PASS

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Date: 21.NOV.2019 12:13:49

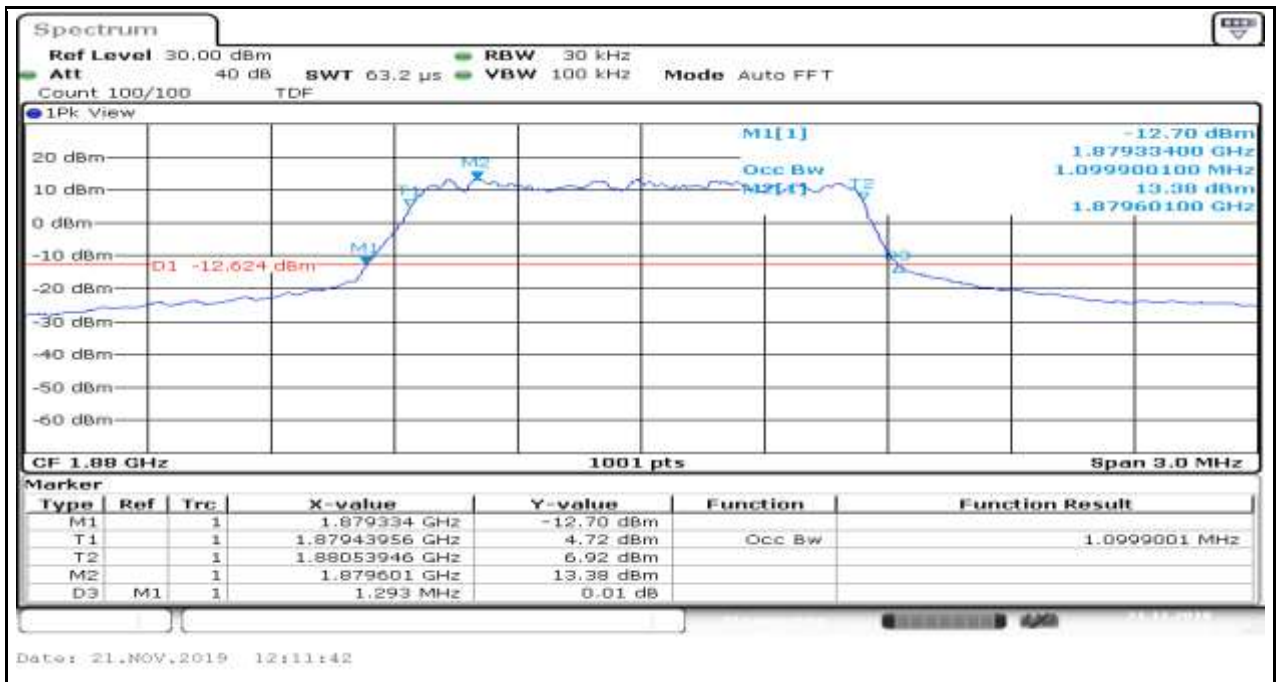
Band2_3MHz_16QAM_18900_6_0_Low_1.097_1.314_PASS



Date: 21.NOV.2019 12:12:44

Band2_1.4MHz_16QAM_18900_6_0_Low_1.1_1.293_PASS

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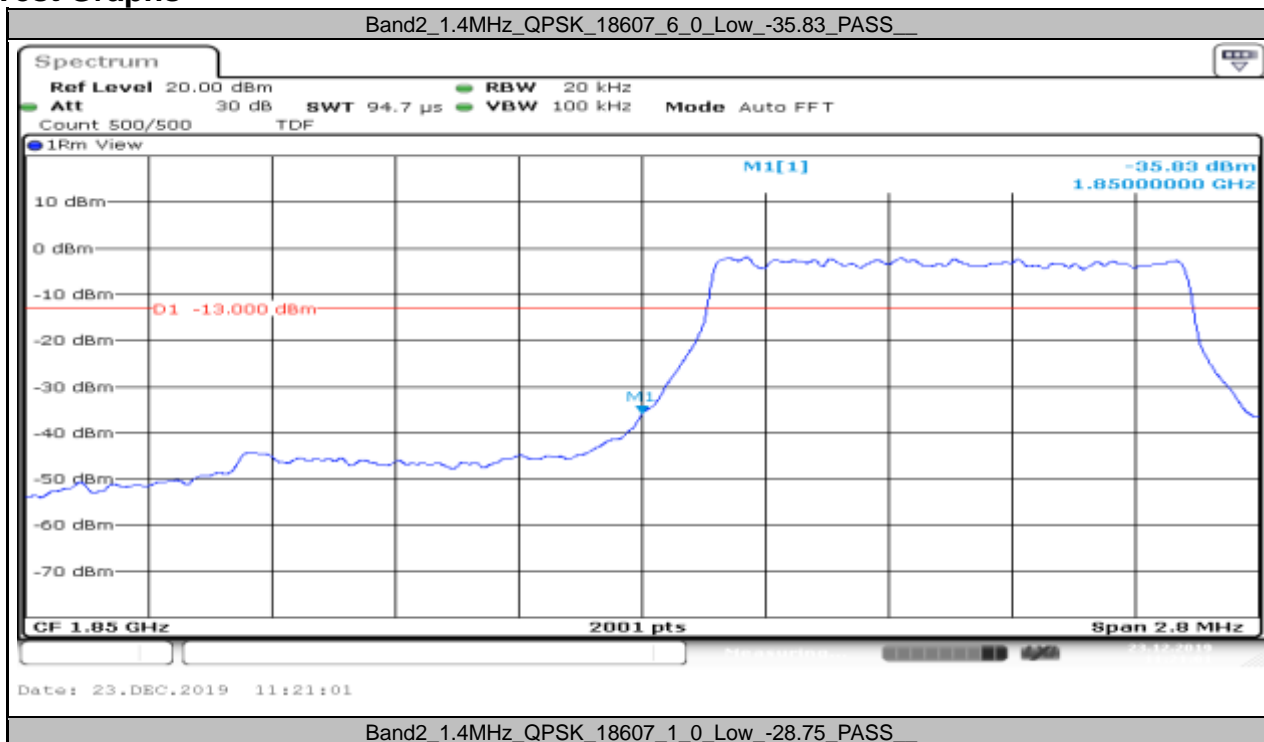


Appendix A.4: Band Edge for M1

Test Result

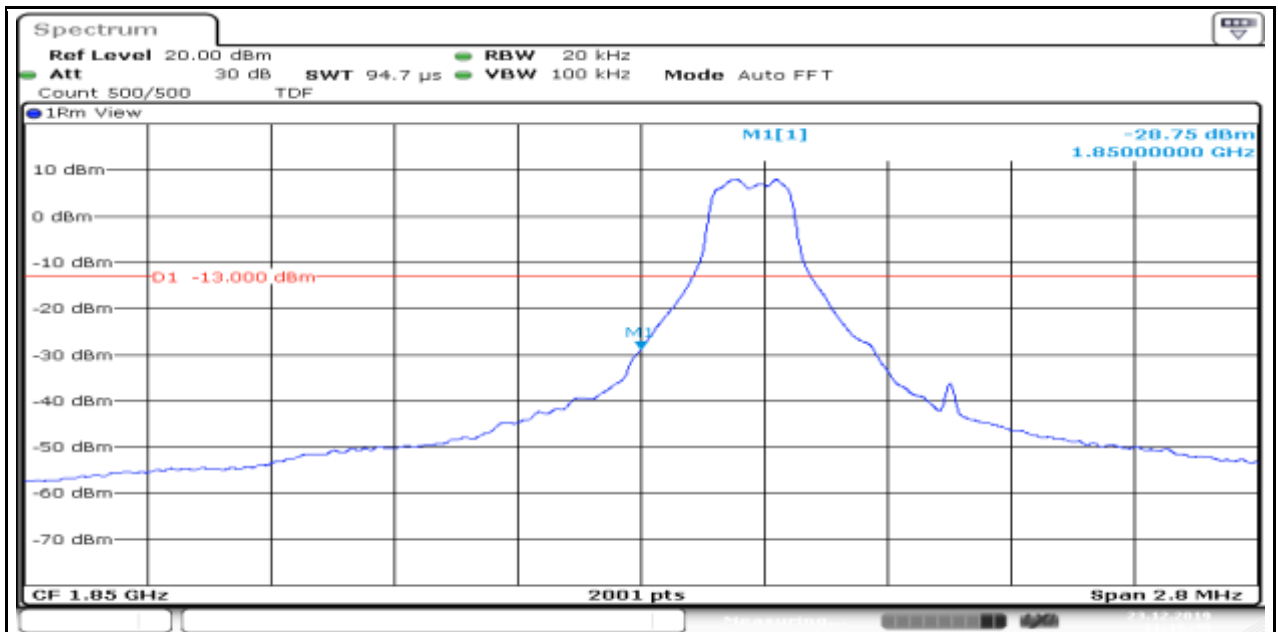
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|--------------|---------|
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | -35.83 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | -28.75 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | -38.33 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | -46.10 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | -34.88 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | -31.79 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | -38.42 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | -43.09 | PASS |

Test Graphs



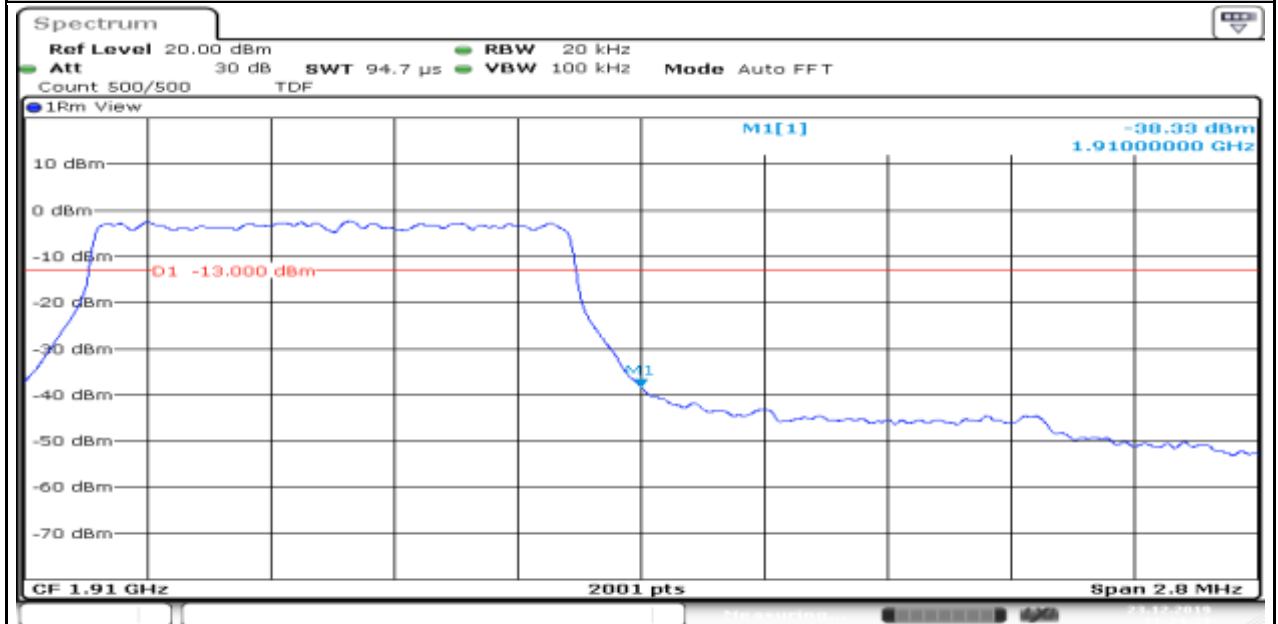
Band2_1.4MHz_QPSK_18607_1_0_Low_-28.75_PASS_

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Date: 23.DEC.2019 11:19:49

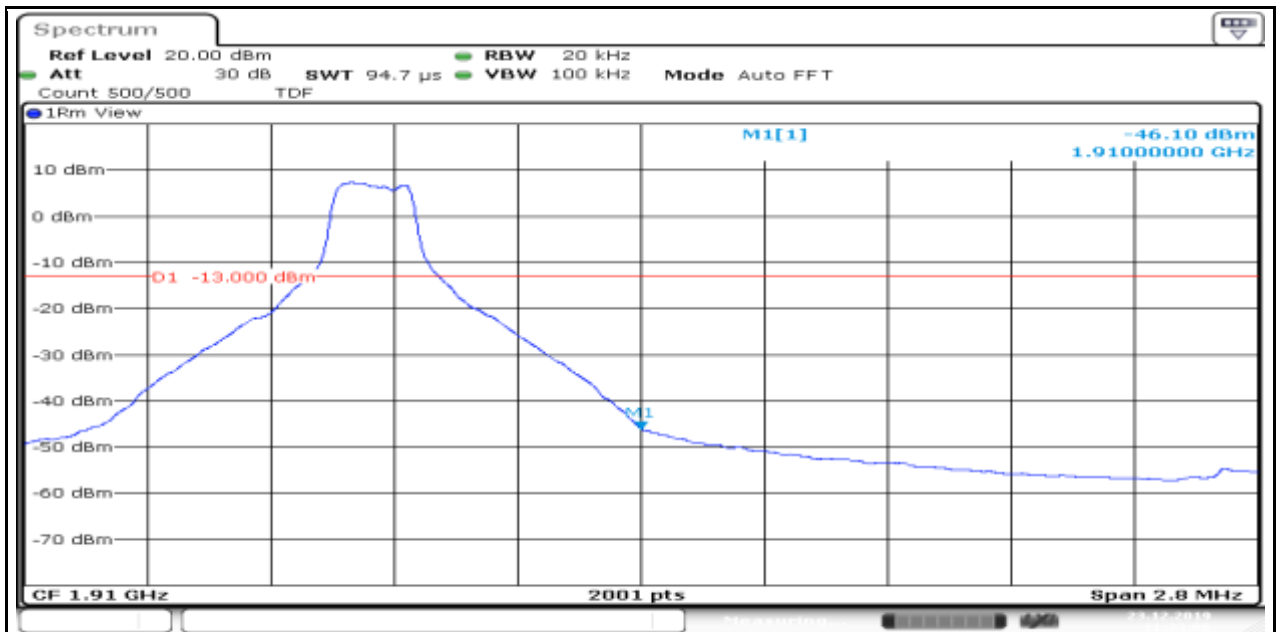
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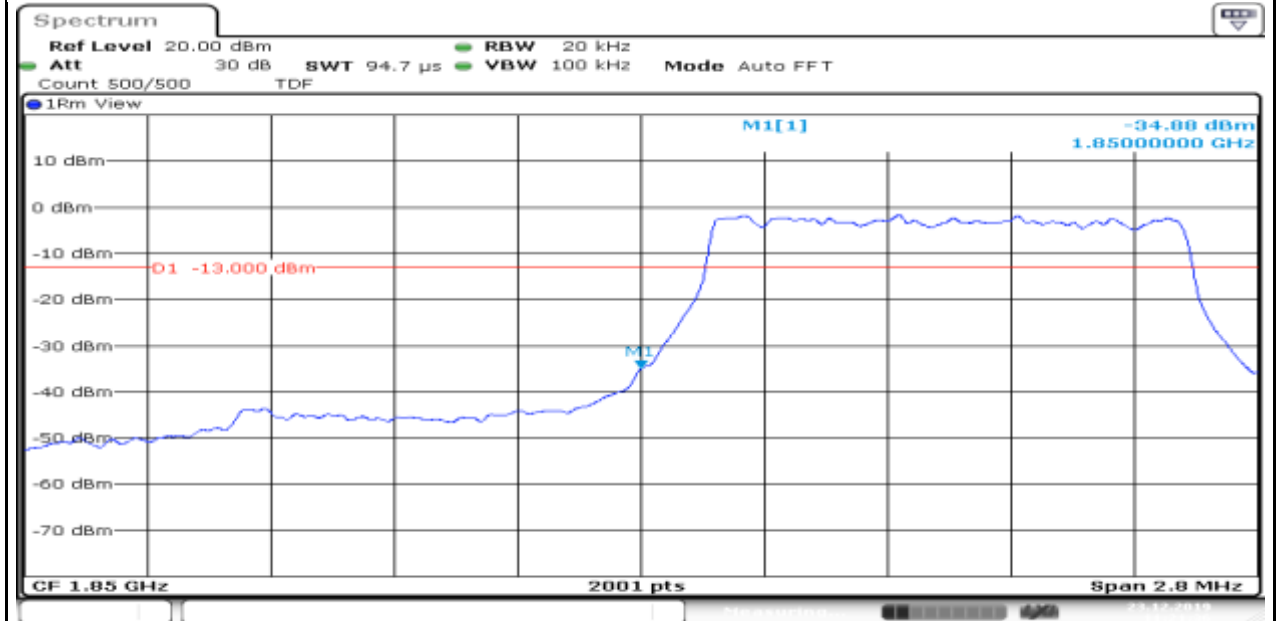
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Date: 23.DEC.2019 11:23:06

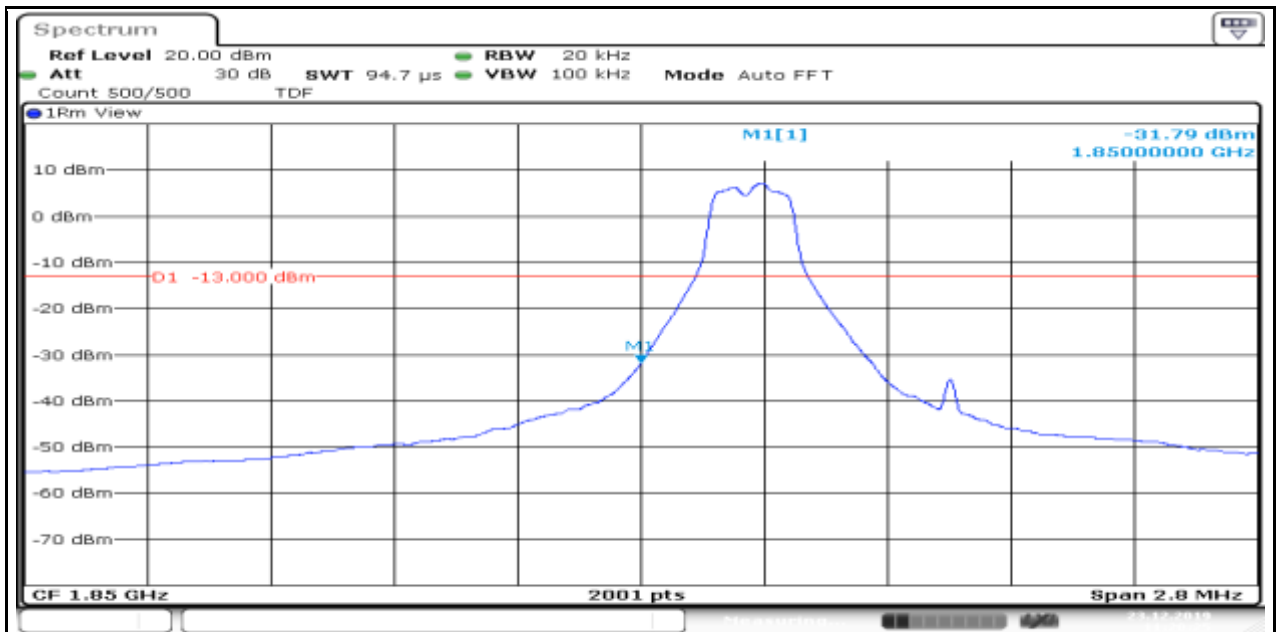
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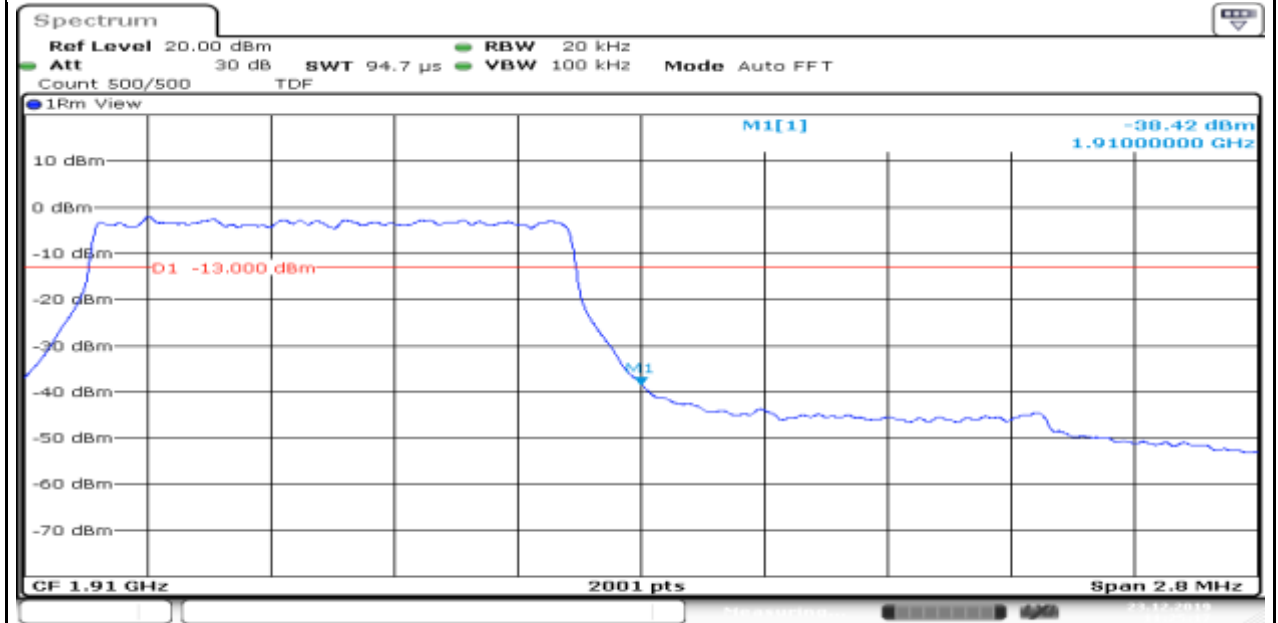
Band2_1.4MHz_16QAM_18607_1_0_Low_-31.79_PASS_

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Date: 23.DEC.2019 11:20:25

Band2_1.4MHz_16QAM_19193_6_0_Low_-38.42_PASS_



Date: 23.DEC.2019 11:25:17

Band2_1.4MHz_16QAM_19193_1_5_Low_-43.09_PASS_

Produkte
Products

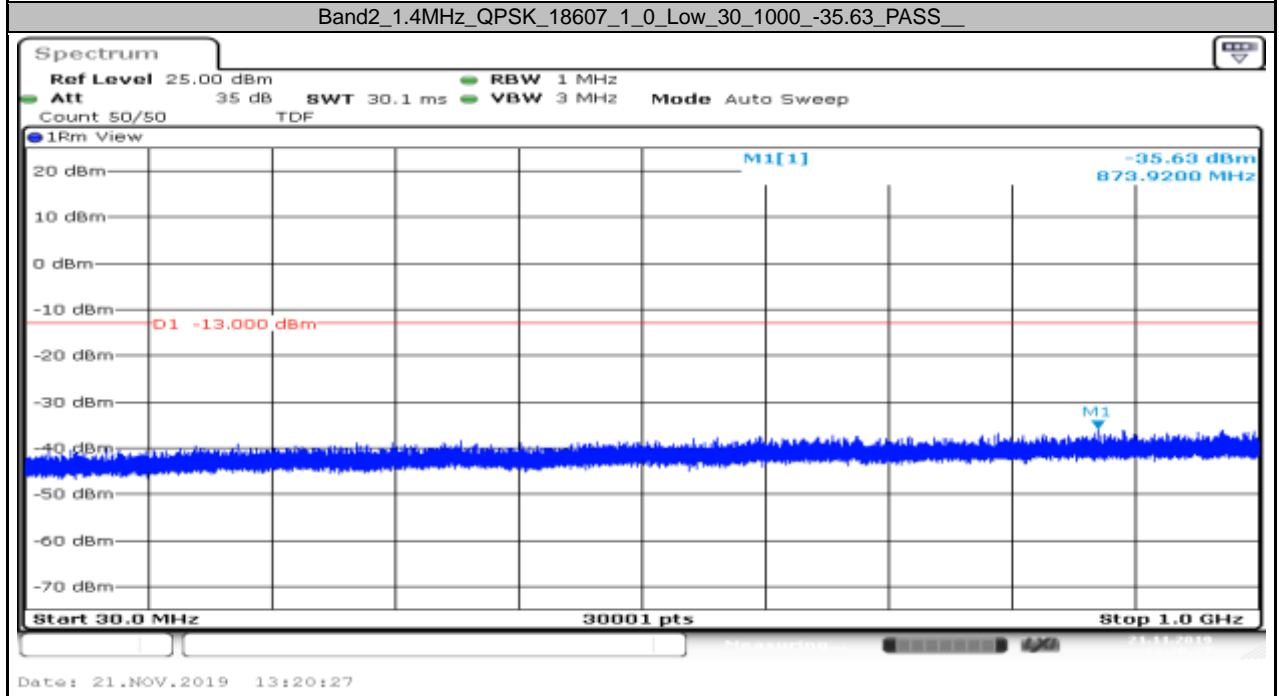
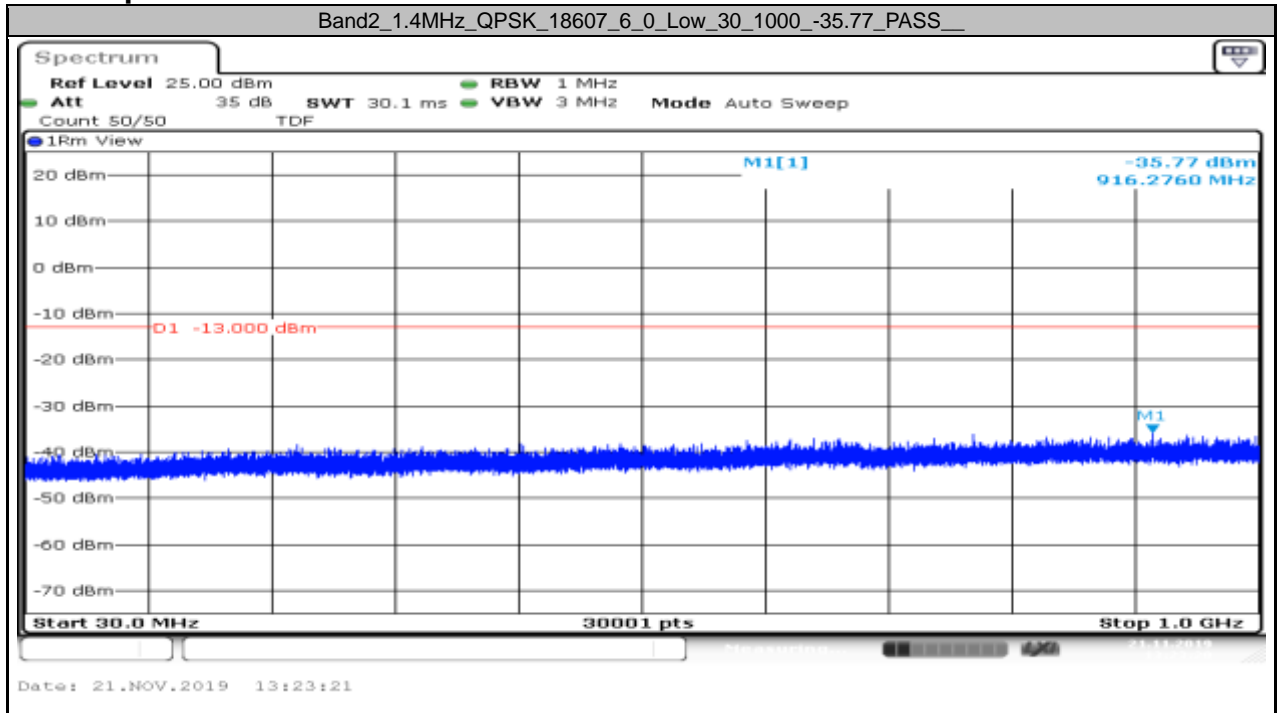


Appendix A.5: Conducted Spurious Emission for M1

Test Result

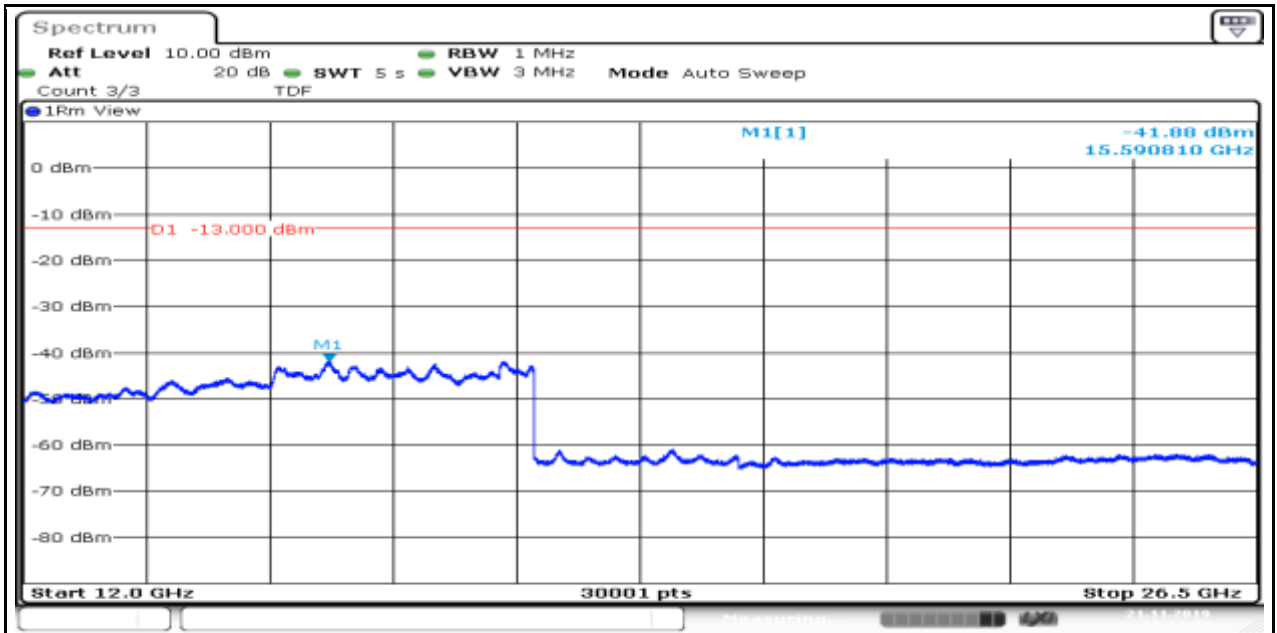
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | 30 | 1000 | -35.77 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | 30 | 1000 | -35.63 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | 12000 | 26500 | -41.88 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | 5000 | 12000 | -47.87 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6 | 0 | Low | 1000 | 5000 | -38.38 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | 12000 | 26500 | -41.79 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | 1000 | 5000 | -32.29 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1 | 0 | Low | 5000 | 12000 | -43.1 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 12000 | 26500 | -41.92 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | 1000 | 5000 | -34.17 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | 5000 | 12000 | -44.36 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | 12000 | 26500 | -41.74 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 1000 | 5000 | -38.35 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | 30 | 1000 | -36.55 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 5000 | 12000 | -47.83 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6 | 0 | Low | 30 | 1000 | -35.72 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | 12000 | 26500 | -41.75 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | 12000 | 26500 | -41.76 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | 5000 | 12000 | -47.59 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | 30 | 1000 | -36.52 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | 1000 | 5000 | -33.71 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | 5000 | 12000 | -44.55 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1 | 5 | Low | 30 | 1000 | -35.77 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6 | 0 | Low | 1000 | 5000 | -38.47 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | 1000 | 5000 | -34.75 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | 5000 | 12000 | -44.25 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | 12000 | 26500 | -41.69 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | 12000 | 26500 | -41.64 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | 5000 | 12000 | -47.62 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | 30 | 1000 | -36.41 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1 | 0 | Low | 30 | 1000 | -36.32 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6 | 0 | Low | 1000 | 5000 | -38.38 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 12000 | 26500 | -41.73 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | 1000 | 5000 | -34.62 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | 12000 | 26500 | -41.66 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 30 | 1000 | -36.45 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 1000 | 5000 | -38.48 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6 | 0 | Low | 5000 | 12000 | -47.8 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | 30 | 1000 | -35.15 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | 5000 | 12000 | -45.2 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | 5000 | 12000 | -47.58 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | 1000 | 5000 | -38.48 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | 30 | 1000 | -36.03 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | 12000 | 26500 | -41.77 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | 5000 | 12000 | -45.41 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | 30 | 1000 | -35.38 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6 | 0 | Low | 12000 | 26500 | -41.65 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1 | 5 | Low | 1000 | 5000 | -35.1 | PASS |

Test Graphs

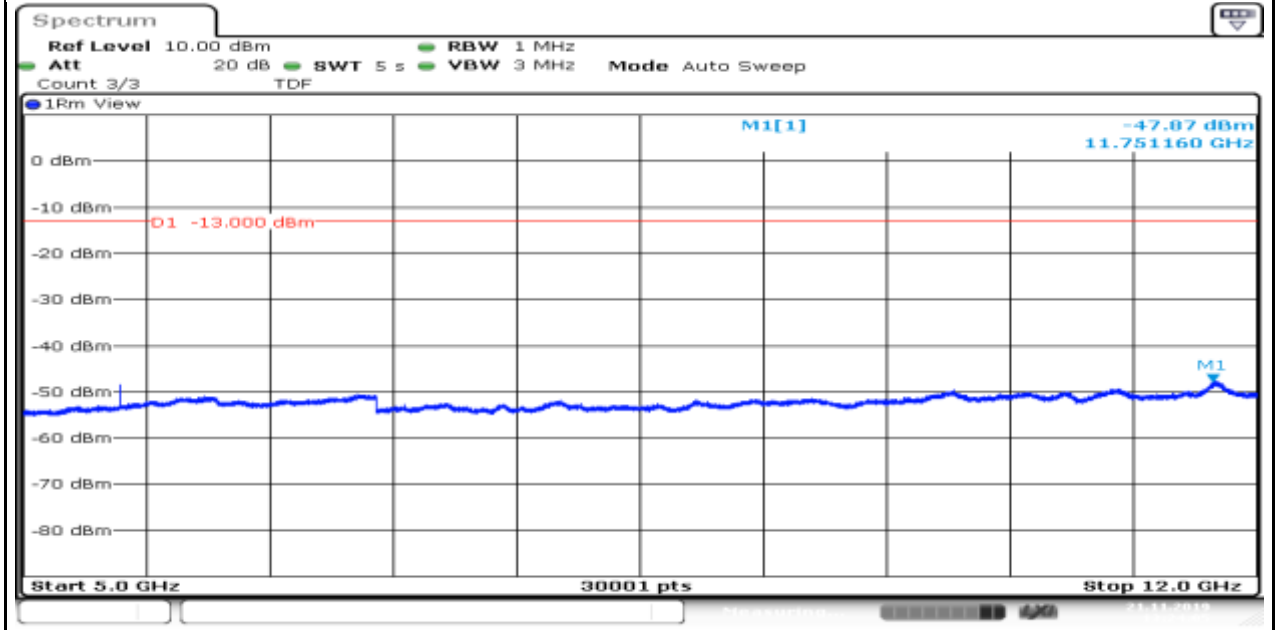


Band2_1.4MHz_QPSK_18607_6_0_Low_12000_26500_-41.88_PASS__

Produkte
Products

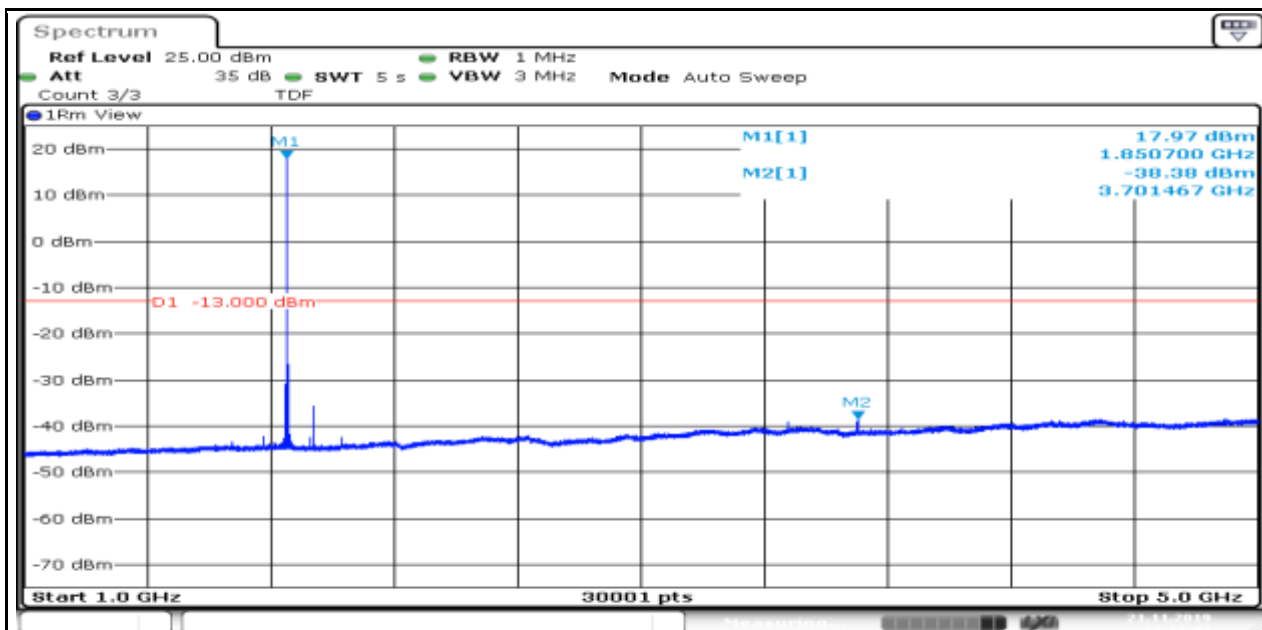


Band2_1.4MHz_QPSK_18607_6_0_Low_5000_12000_-47.87_PASS_

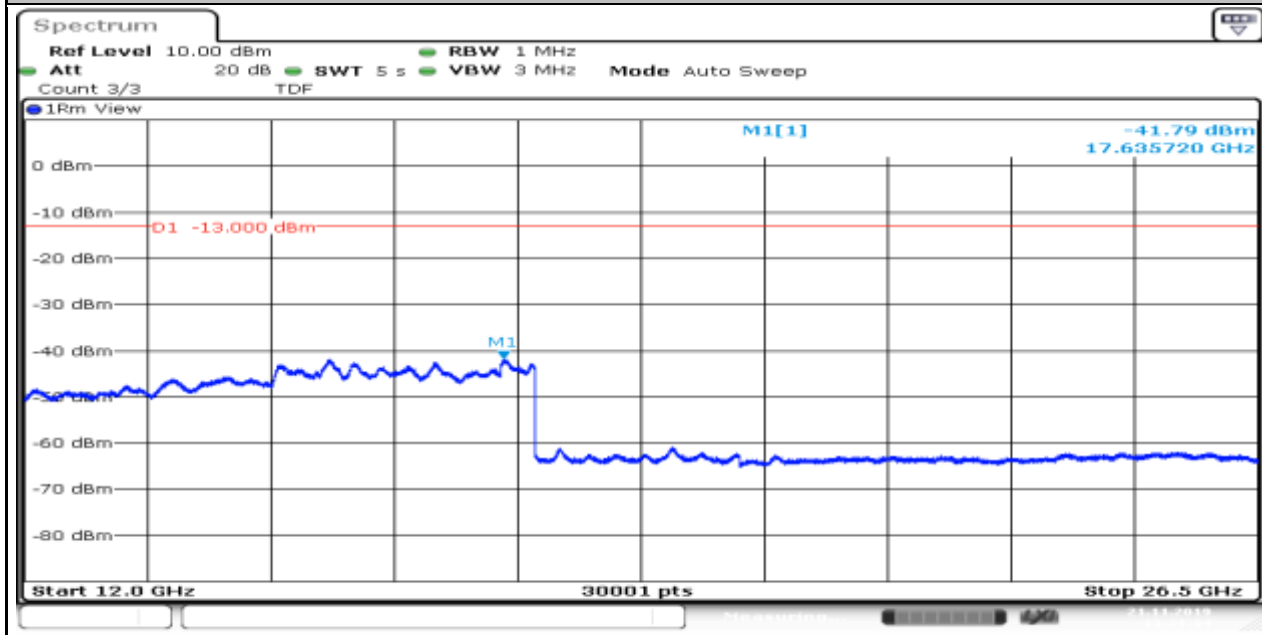


Band2_1.4MHz_QPSK_18607_6_0_Low_1000_5000_-38.38_PASS_

Produkte
Products

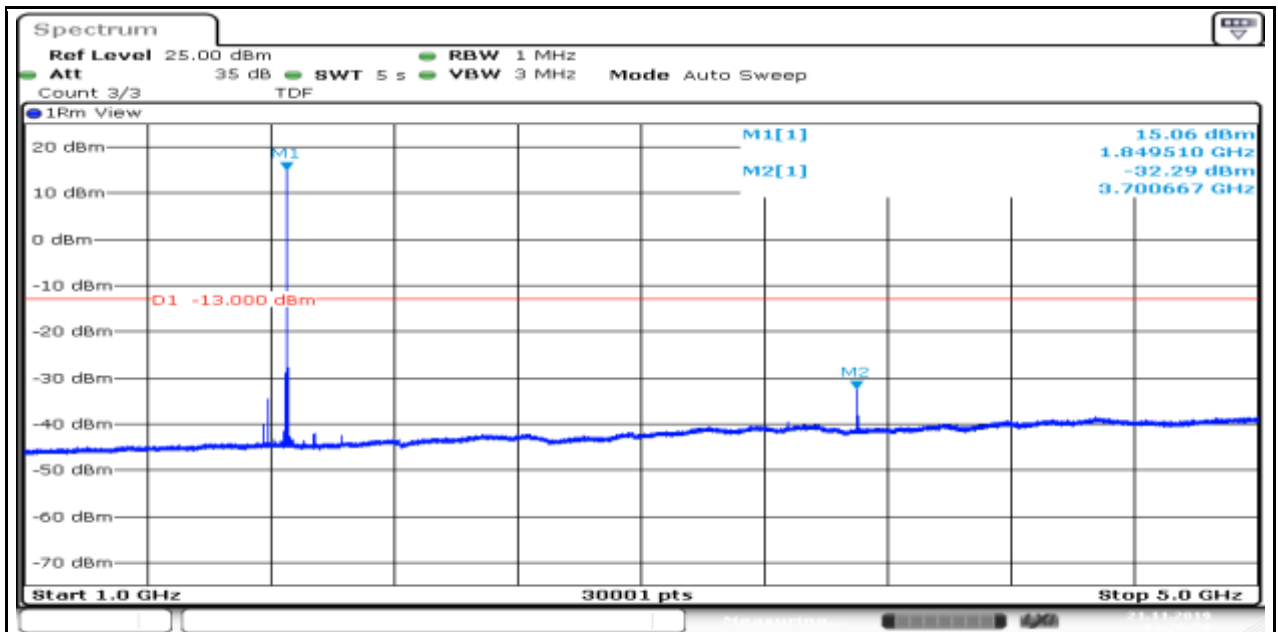


Band2_1.4MHz_QPSK_18607_1_0_Low_12000_26500_-41.79_PASS_

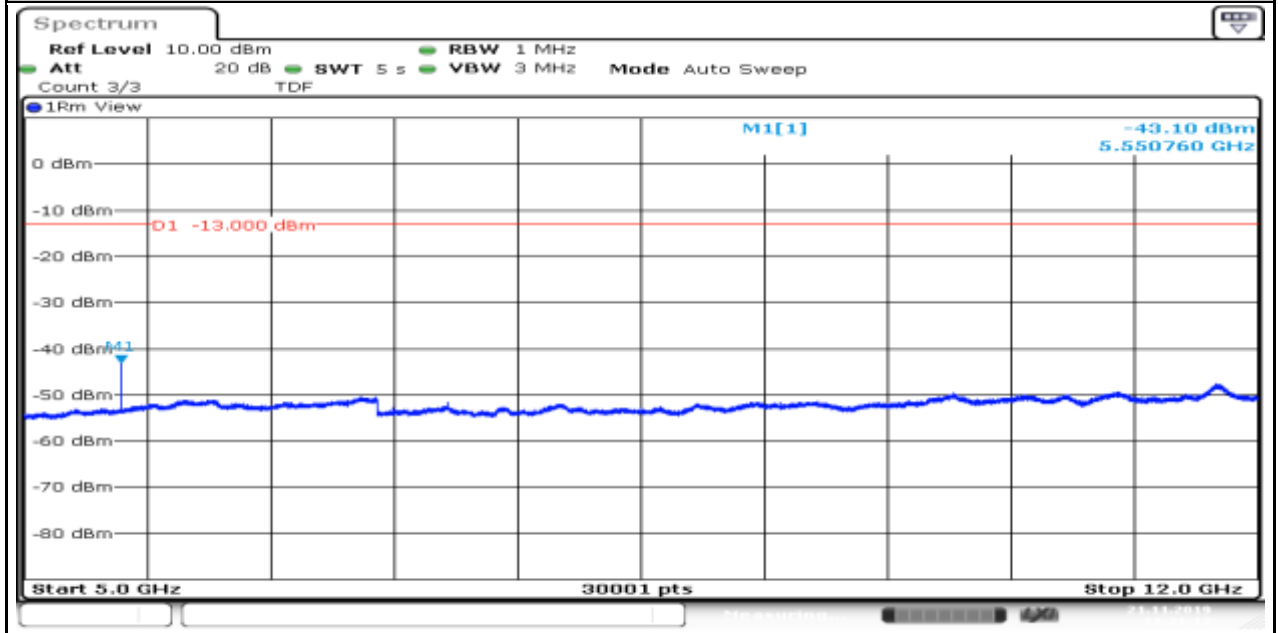


Band2_1.4MHz_QPSK_18607_1_0_Low_1000_5000_-32.29_PASS_

Produkte
Products

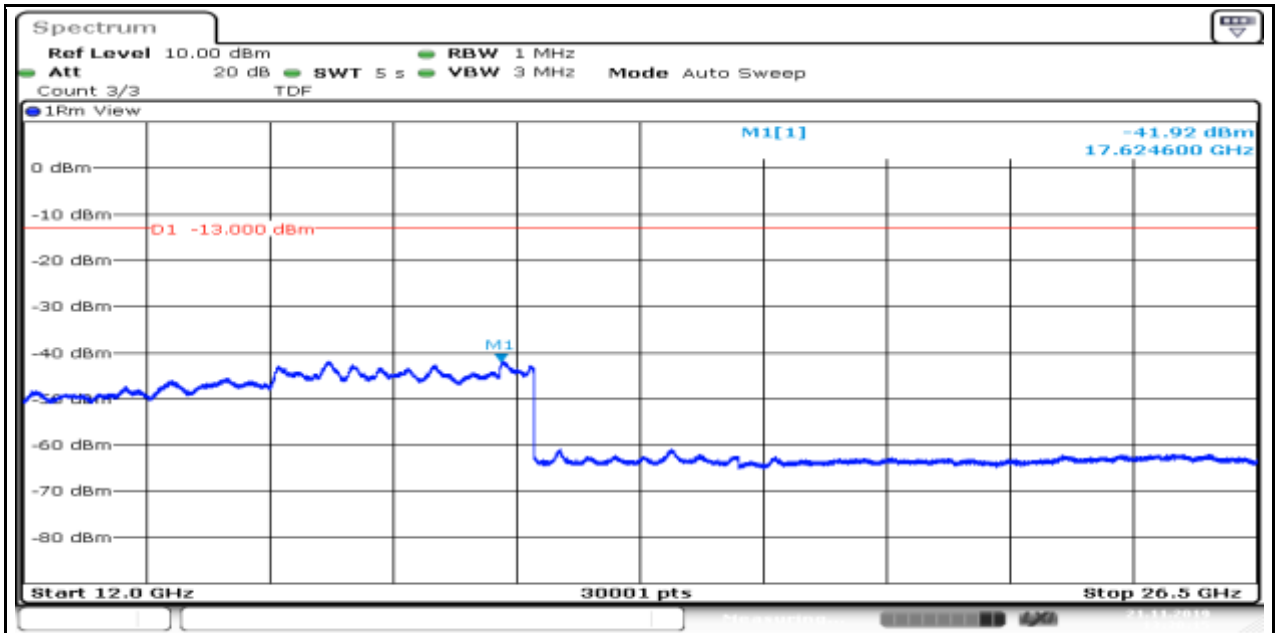


Band2_1.4MHz_QPSK_18607_1_0_Low_5000_12000_-43.1_PASS_

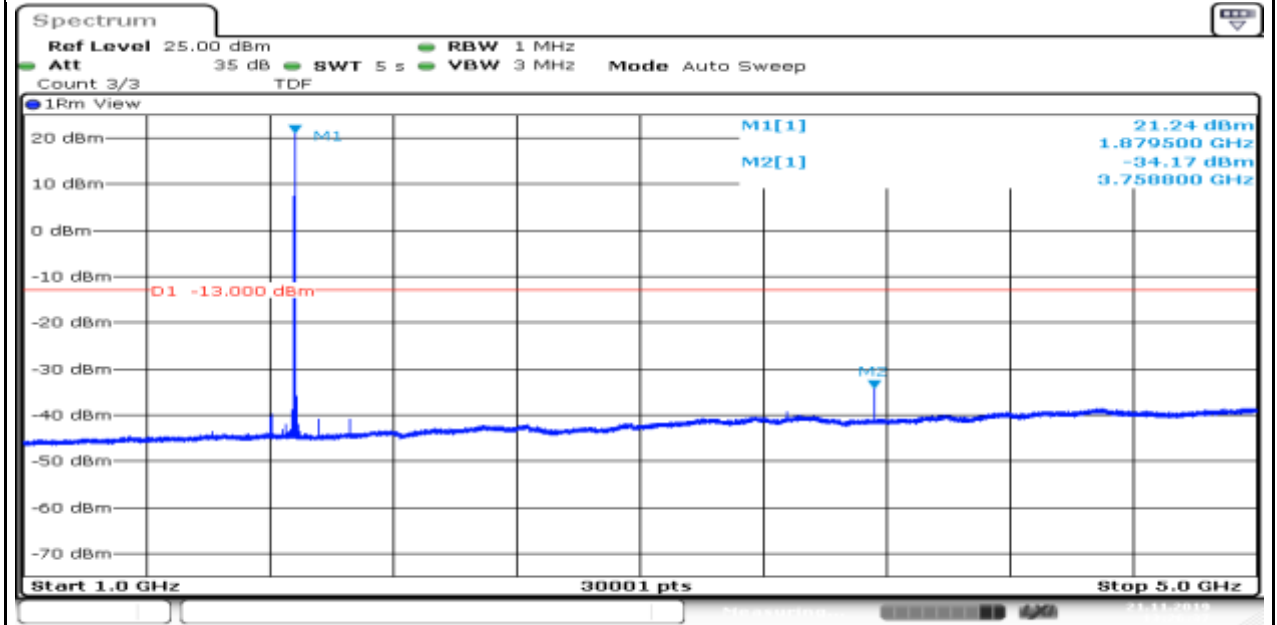


Band2_1.4MHz_QPSK_18900_6_0_Low_12000_26500_-41.92_PASS_

Produkte
Products

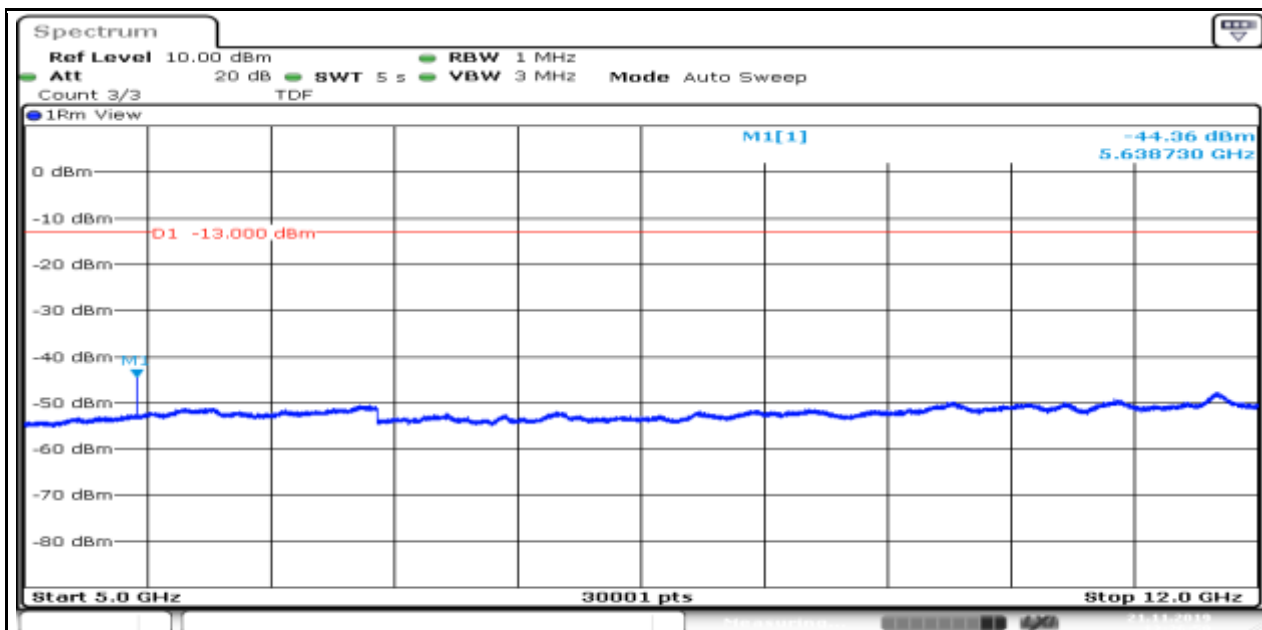


Band2_1.4MHz_QPSK_18900_1_0_Low_1000_5000_-34.17_PASS_

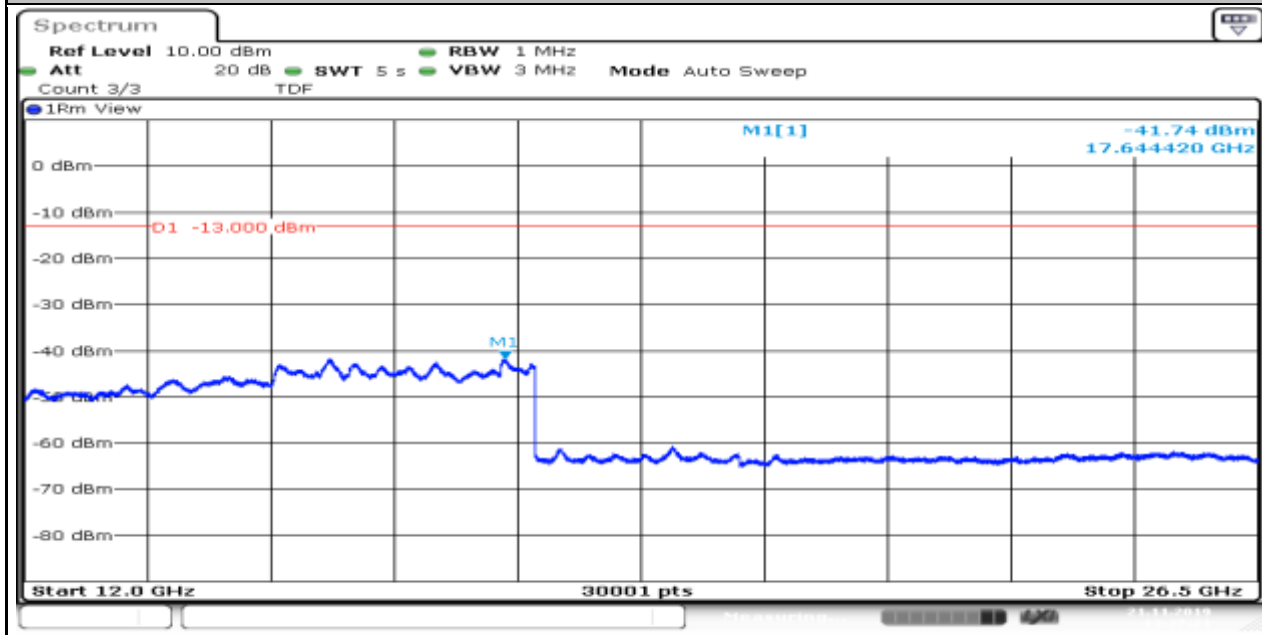


Band2_1.4MHz_QPSK_18900_1_0_Low_5000_12000_-44.36_PASS_

Produkte
Products

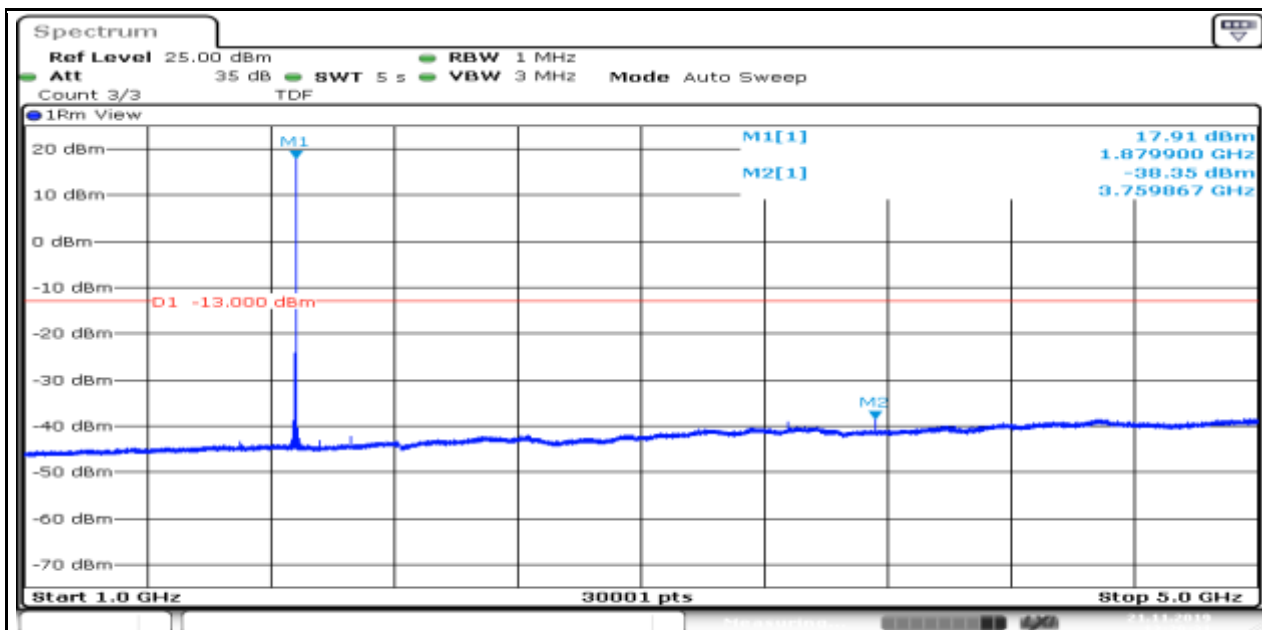


Band2_1.4MHz_QPSK_18900_1_0_Low_12000_26500_-41.74_PASS_

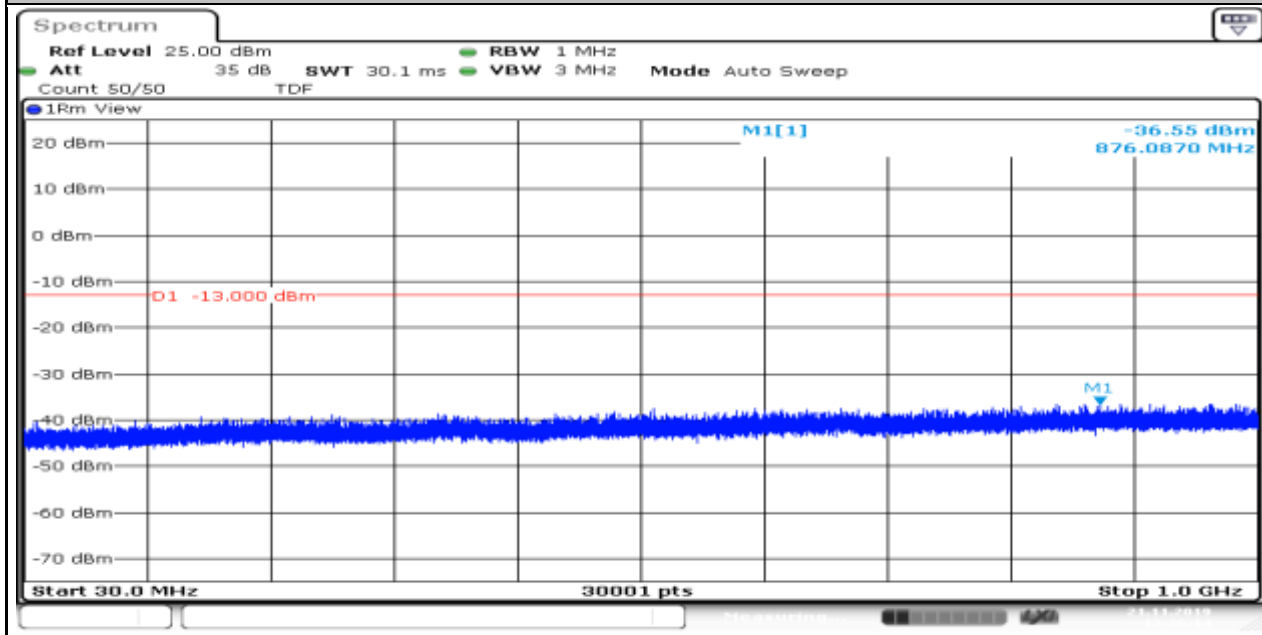


Band2_1.4MHz_QPSK_18900_6_0_Low_1000_5000_-38.35_PASS_

Produkte
Products

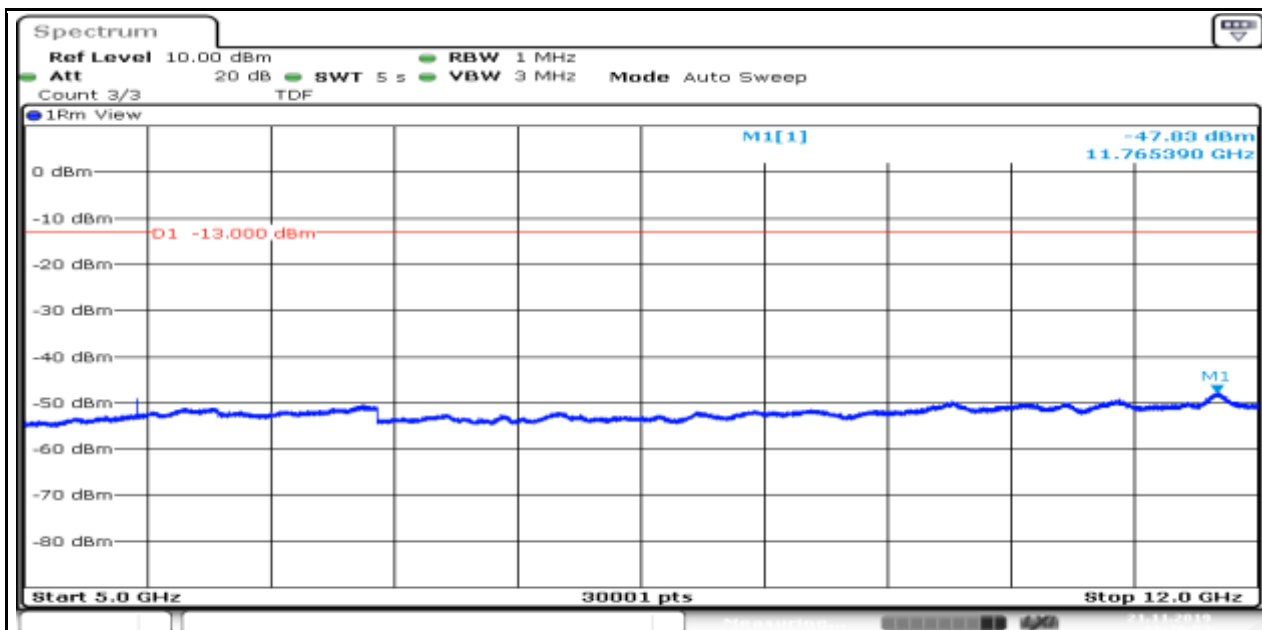


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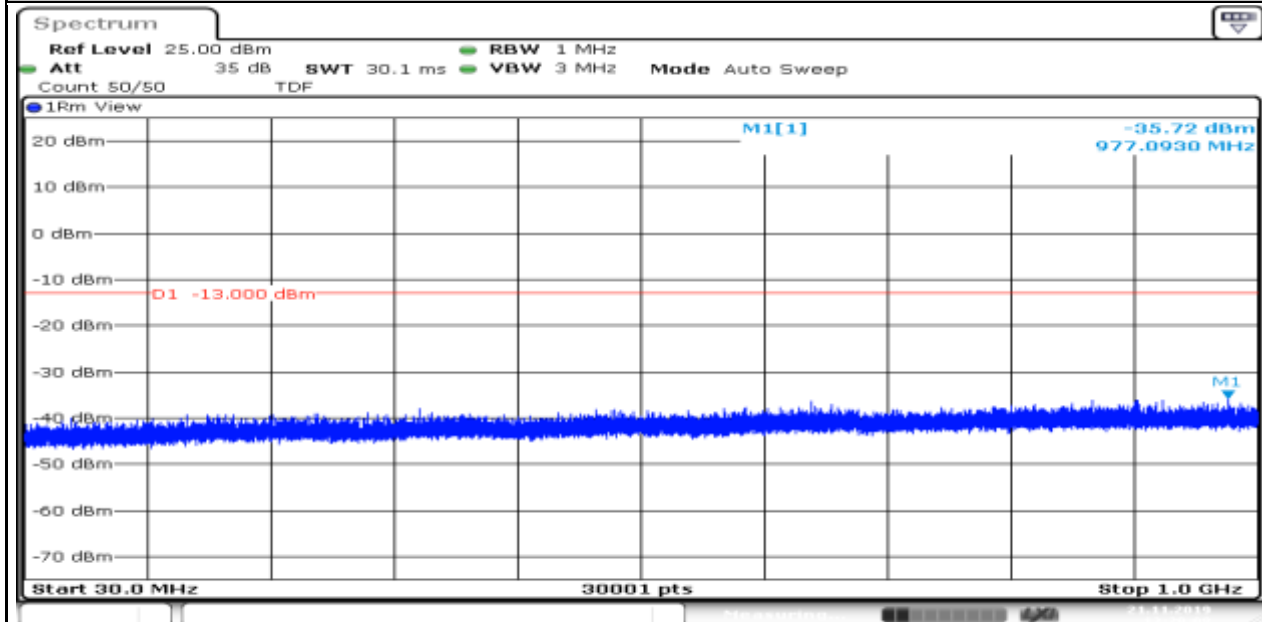
Band2_1.4MHz_QPSK_18900_6_0_Low_5000_12000_-47.83_PASS_

Produkte
Products



Date: 21.NOV.2019 13:29:54

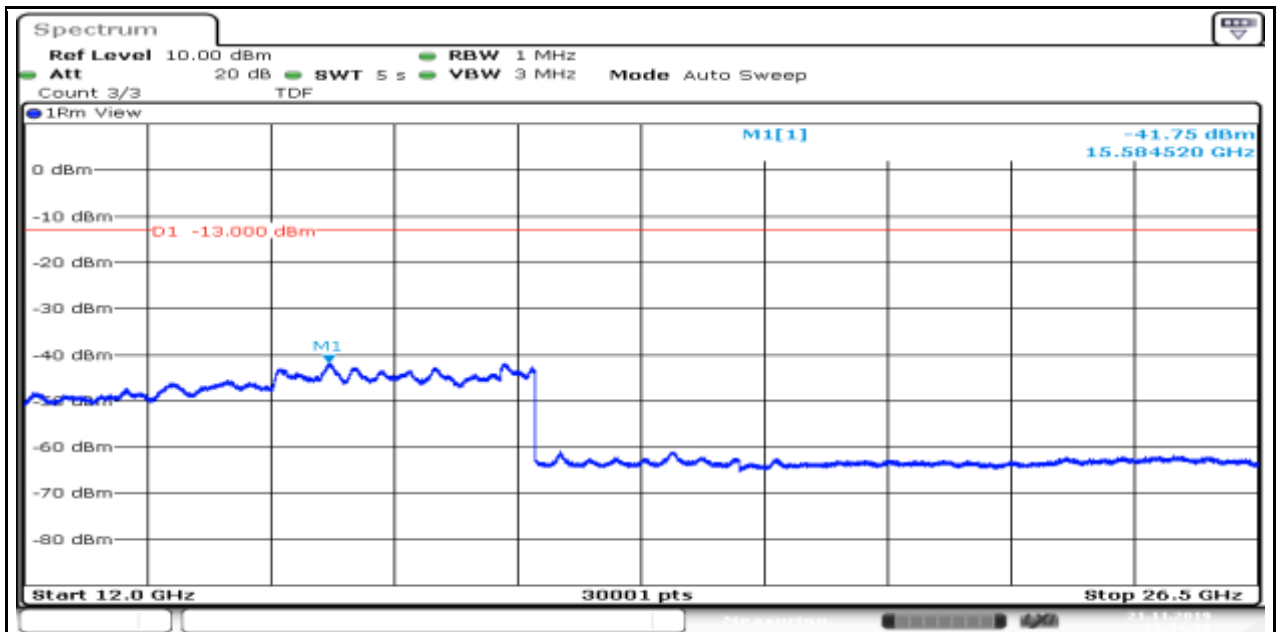
Band2_1.4MHz_QPSK_18900_6_0_Low_30_1000_-35.72_PASS_



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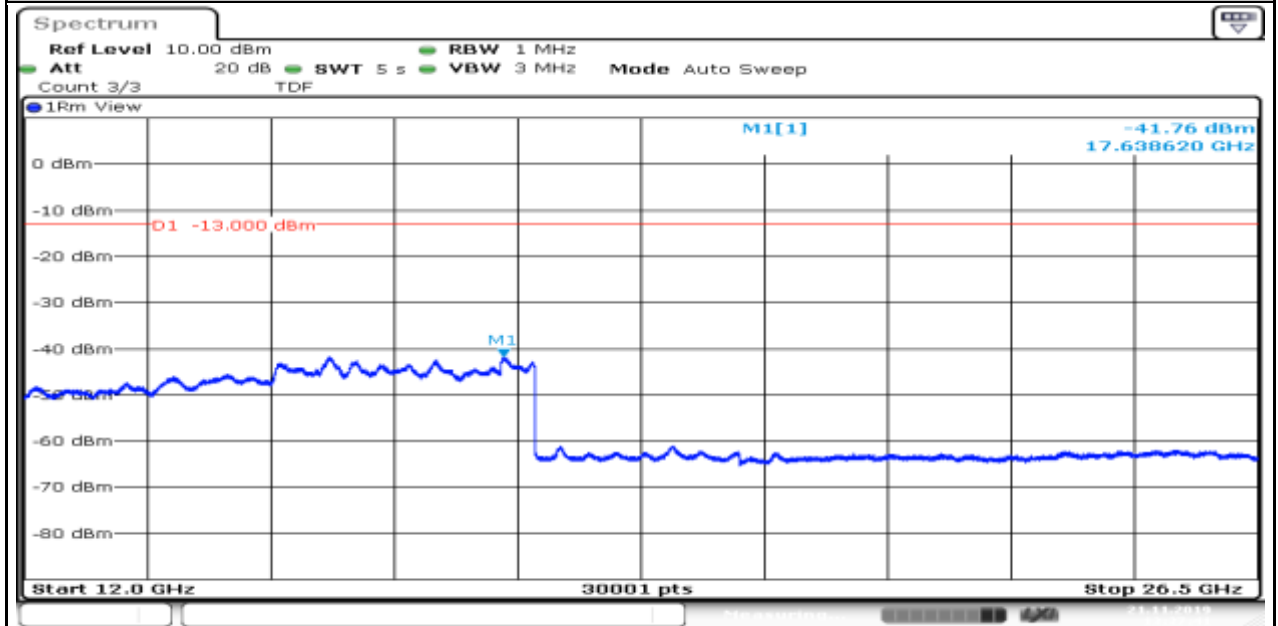
Band2_1.4MHz_QPSK_19193_1_5_Low_12000_26500_-41.75_PASS_

Produkte
Products



Date: 21.NOV.2019 13:34:38

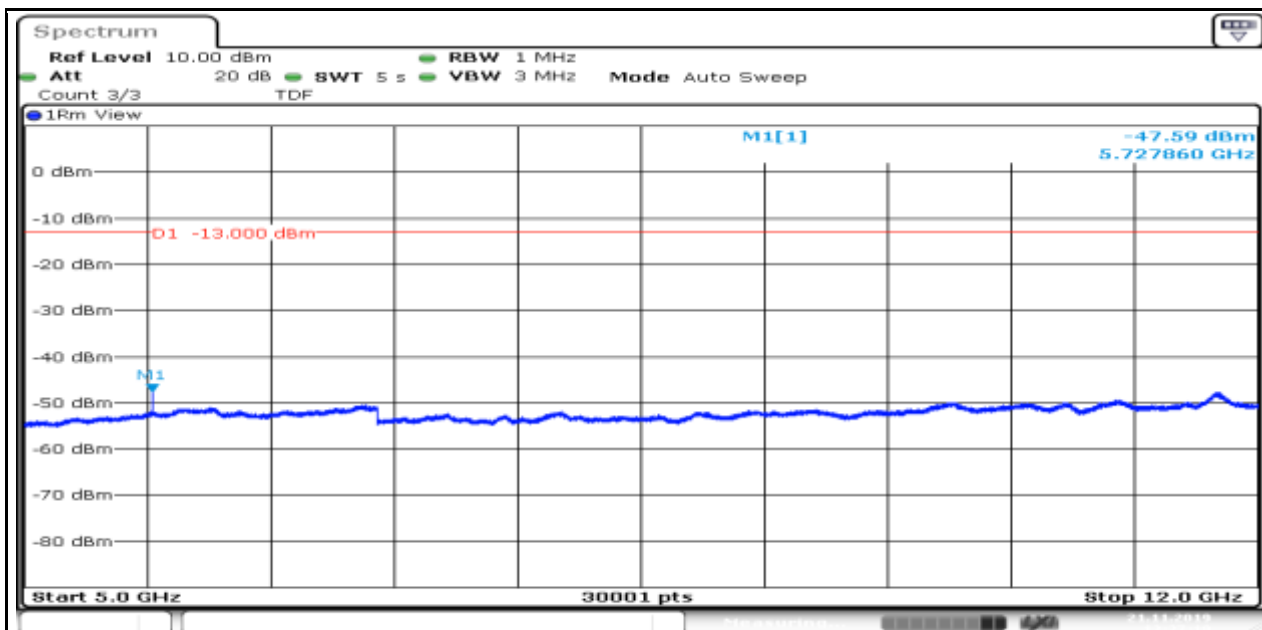
Band2_1.4MHz_QPSK_19193_6_0_Low_12000_26500_-41.76_PASS_



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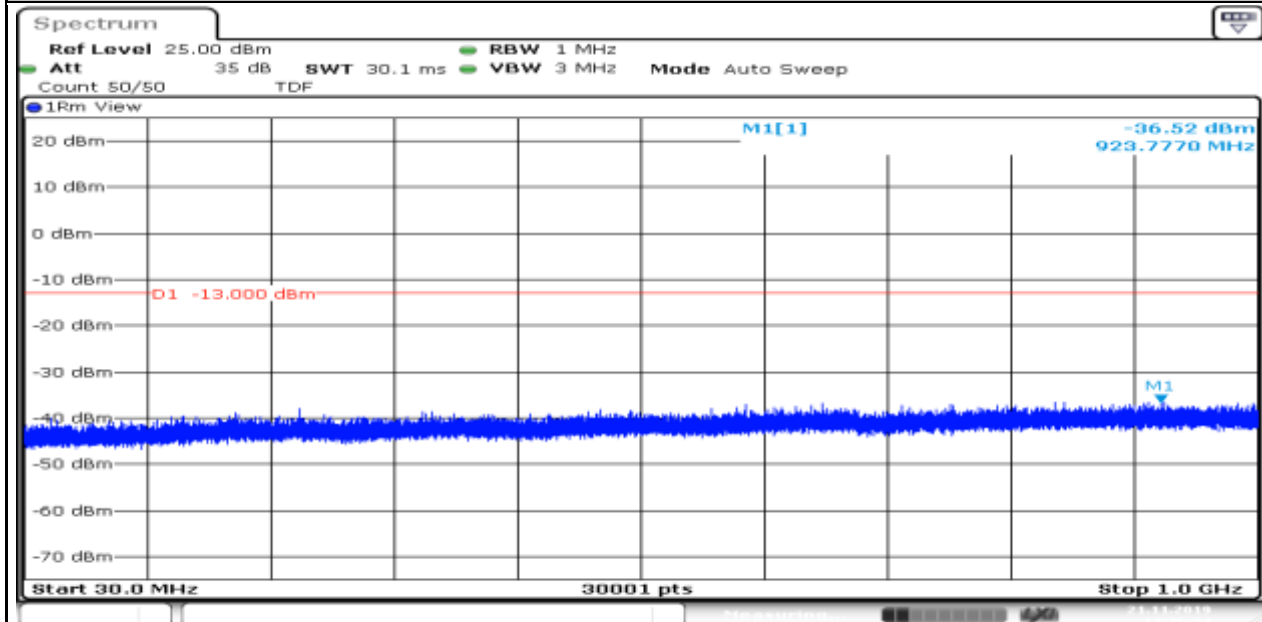
Band2_1.4MHz_QPSK_19193_6_0_Low_5000_12000_-47.59_PASS_

Produkte
Products



Date: 21.NOV.2019 13:37:19

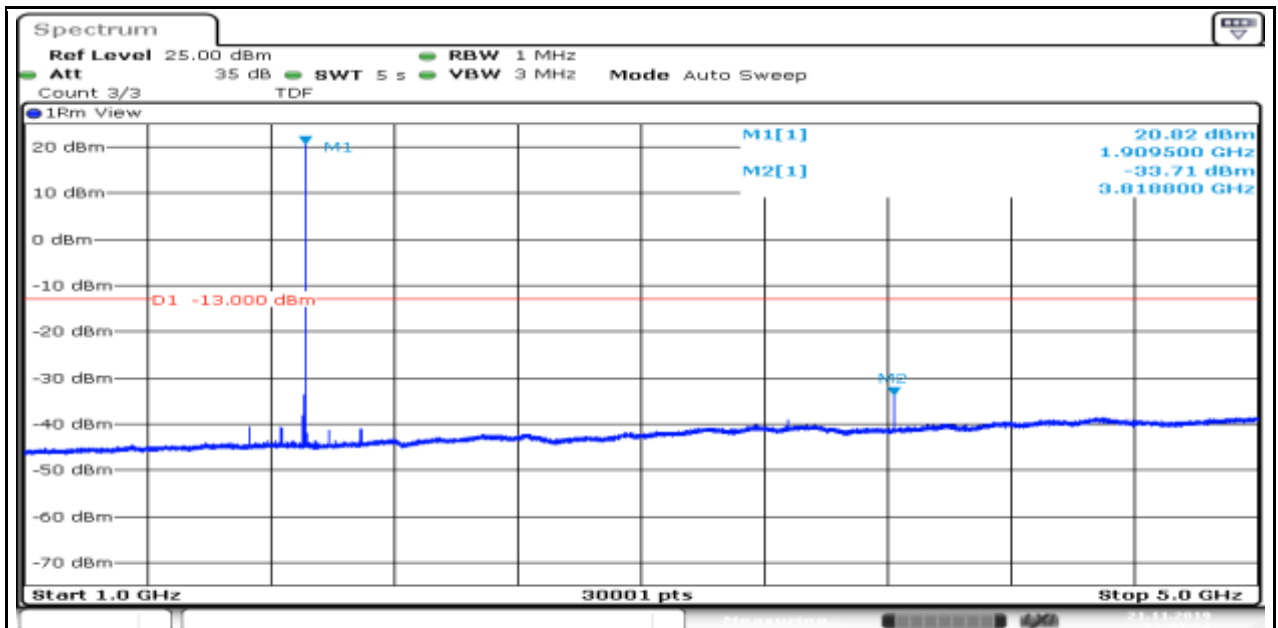
Band2_1.4MHz_QPSK_19193_6_0_Low_30_1000_-36.52_PASS_



Date: 21.NOV.2019 13:36:35

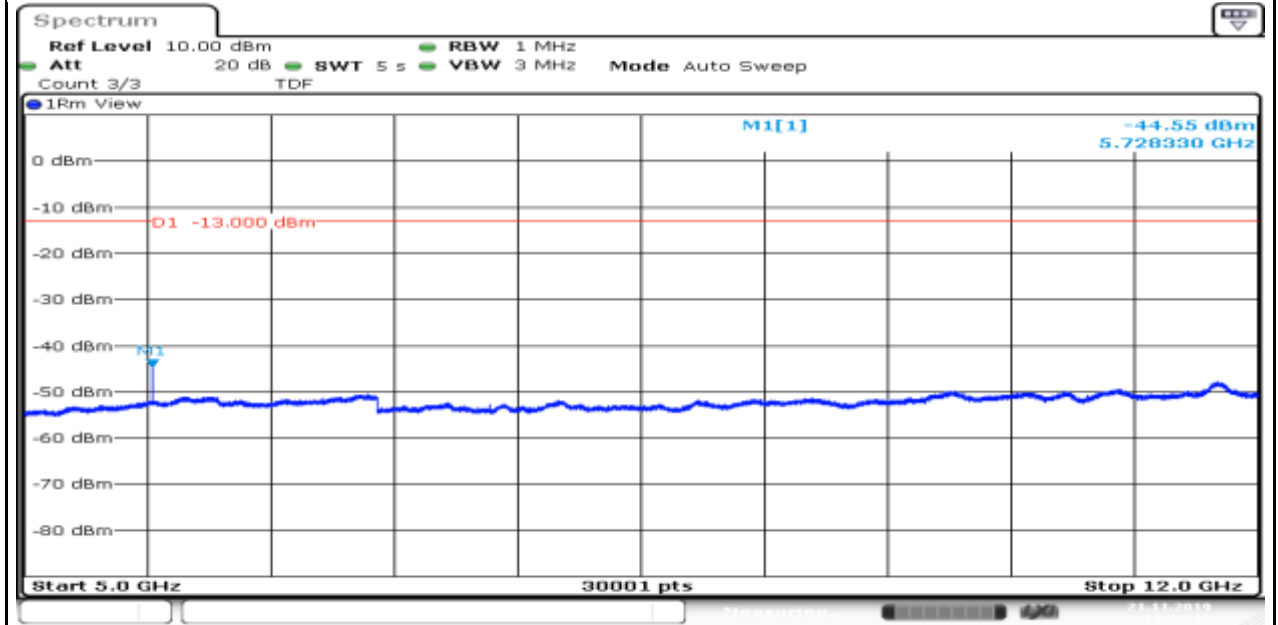
Band2_1.4MHz_QPSK_19193_1_5_Low_1000_5000_-33.71_PASS_

Produkte
Products



Date: 21.NOV.2019 13:33:55

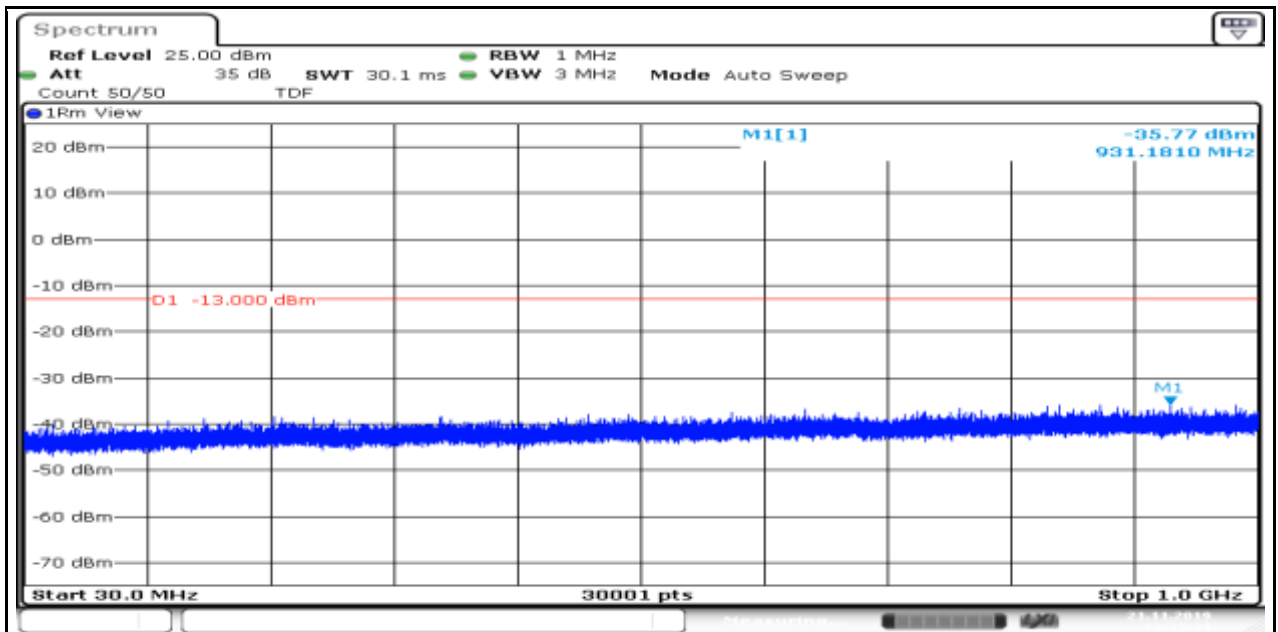
Band2_1.4MHz_QPSK_19193_1_5_Low_5000_12000_-44.55_PASS_



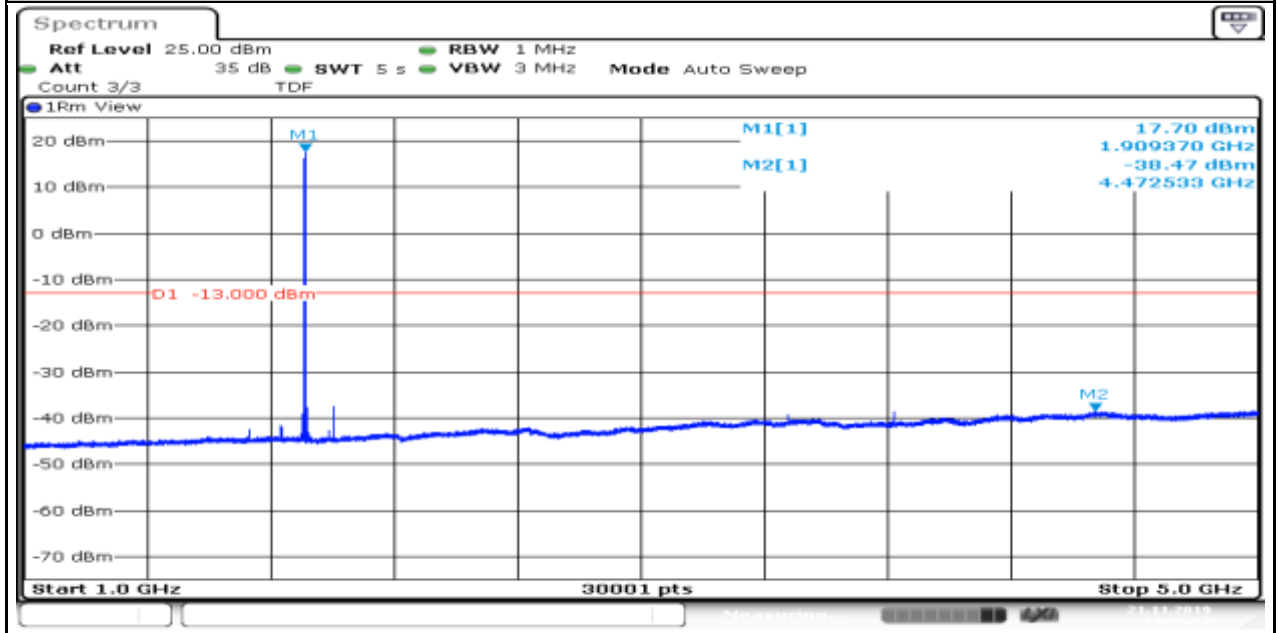
Date: 21.NOV.2019 13:34:16

Band2_1.4MHz_QPSK_19193_1_5_Low_30_1000_-35.77_PASS_

Produkte
Products

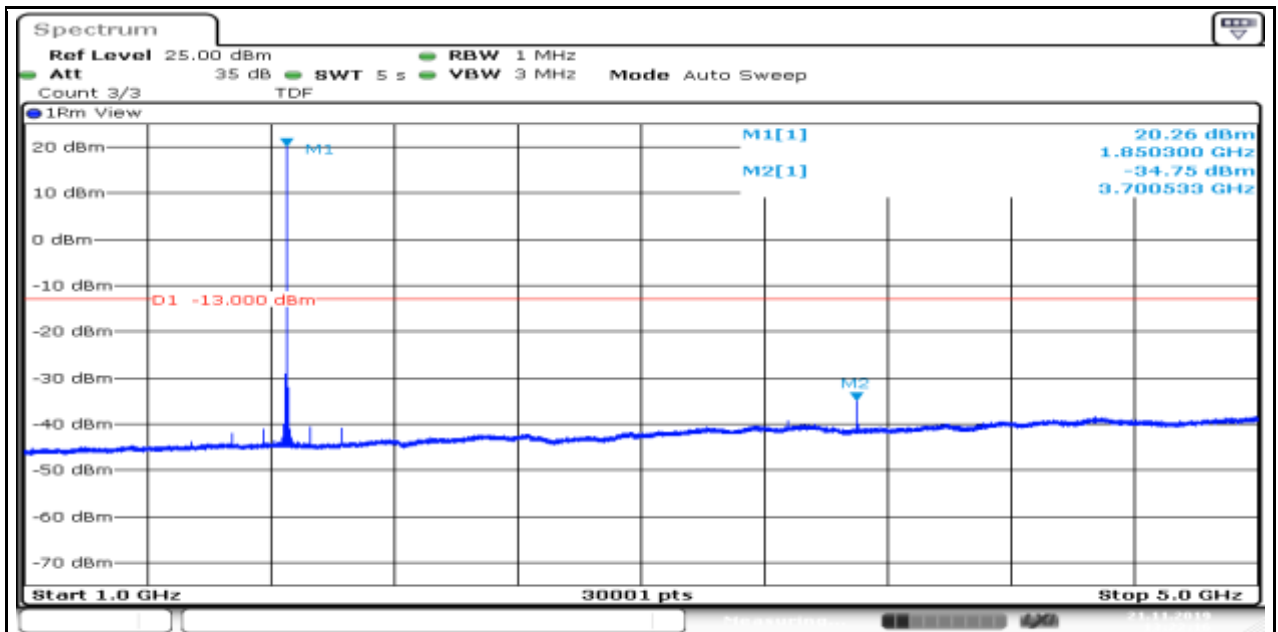


Band2_1.4MHz_QPSK_19193_6_0_Low_1000_5000_-38.47_PASS_

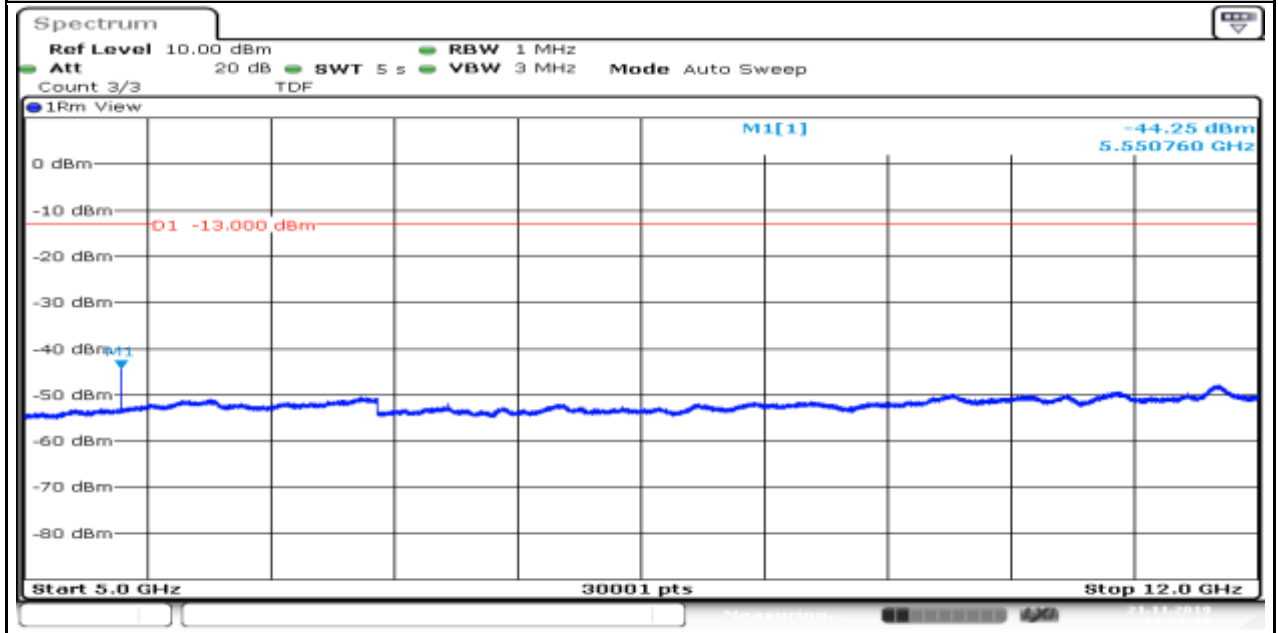


Band2_1.4MHz_16QAM_18607_1_0_Low_1000_5000_-34.75_PASS_

Produkte
Products

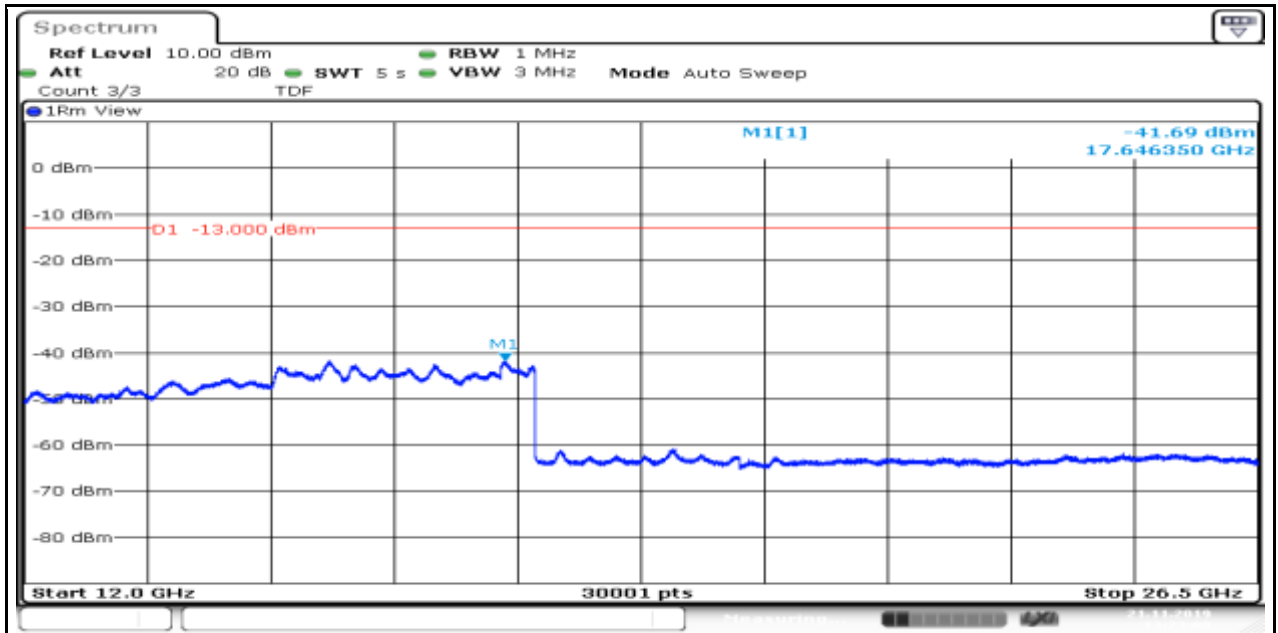


Band2_1.4MHz_16QAM_18607_1_0_Low_5000_12000_-44.25_PASS_

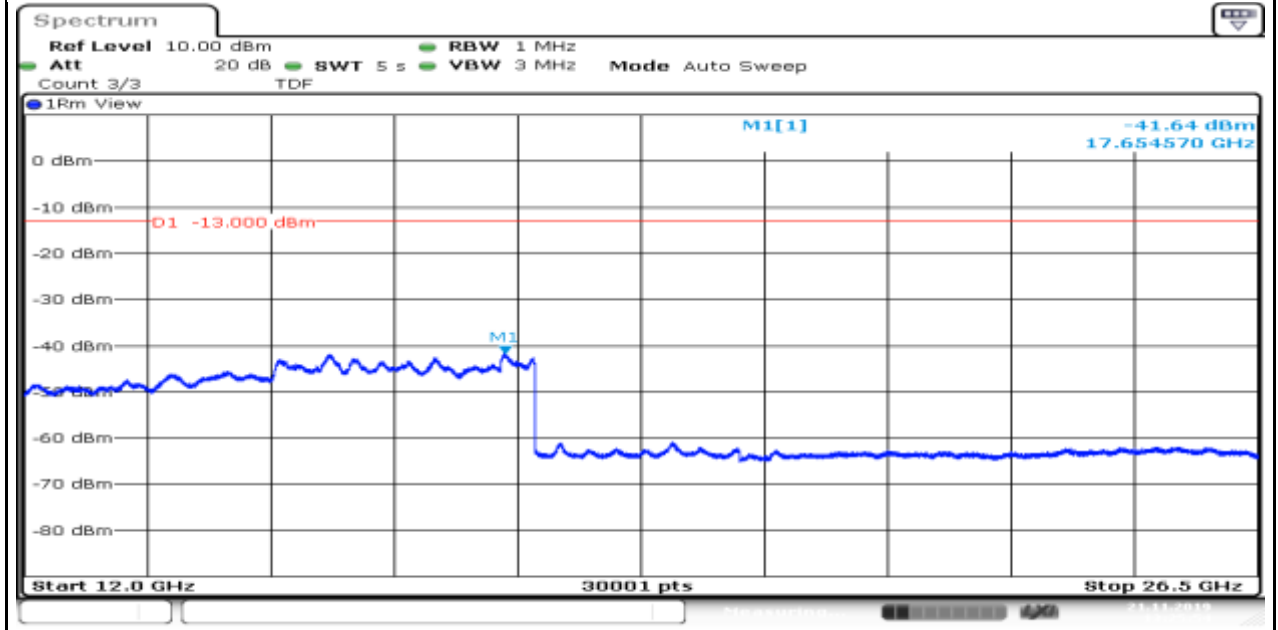


Band2_1.4MHz_16QAM_18607_1_0_Low_12000_26500_-41.69_PASS_

Produkte
Products

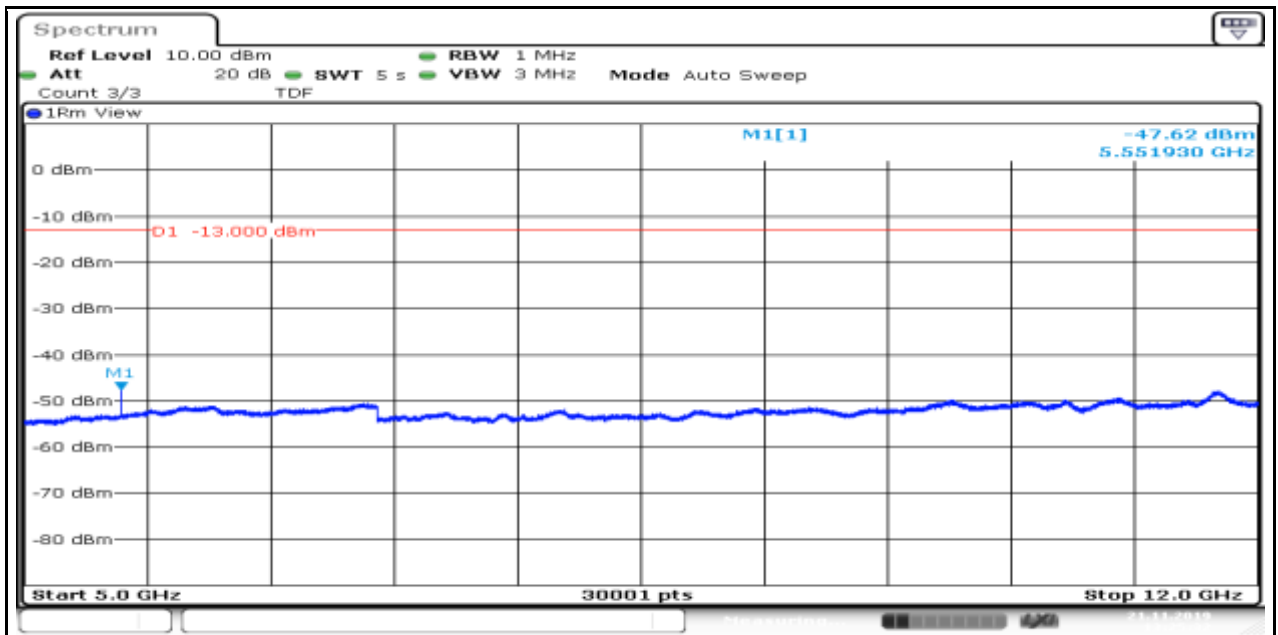


Band2_1.4MHz_16QAM_18607_6_0_Low_12000_26500_-41.64_PASS_



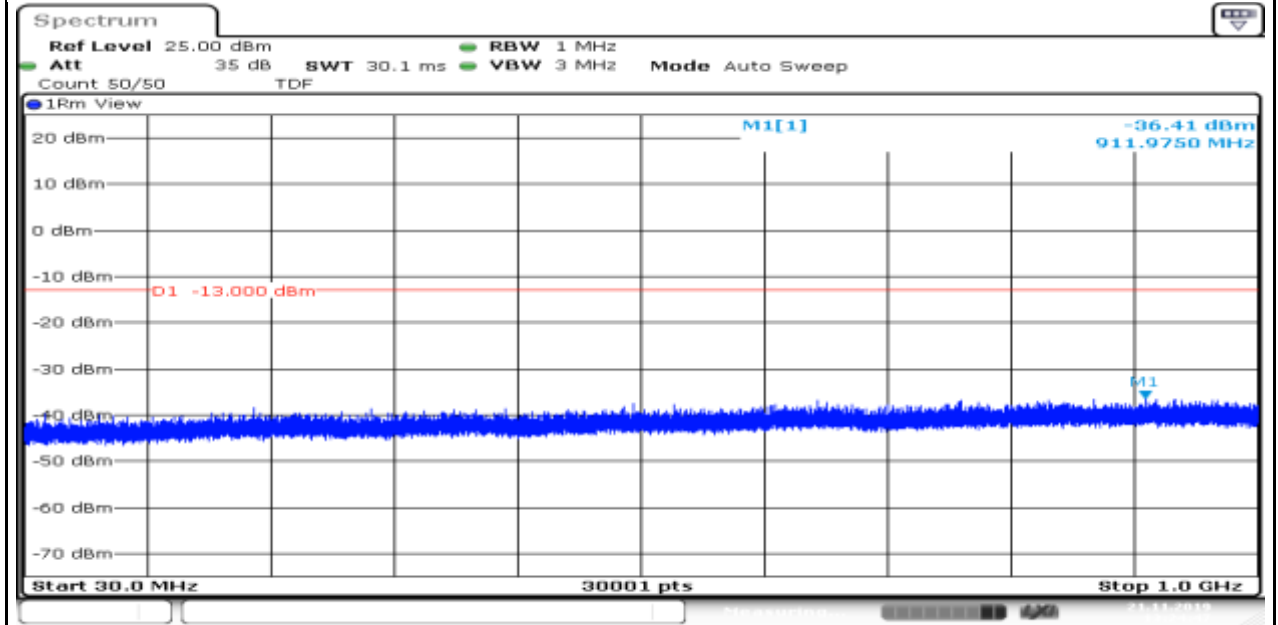
Band2_1.4MHz_16QAM_18607_6_0_Low_5000_12000_-47.62_PASS_

Produkte
Products



Date: 21.NOV.2019 13:25:32

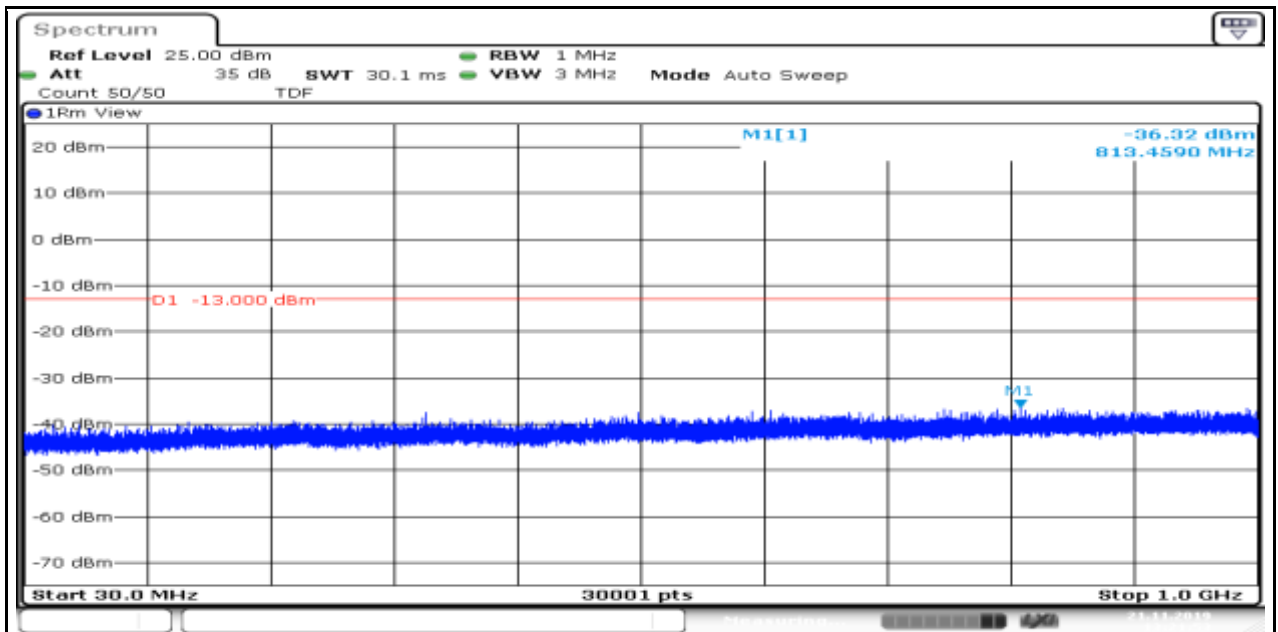
Band2_1.4MHz_16QAM_18607_6_0_Low_30_1000_-36.41_PASS_



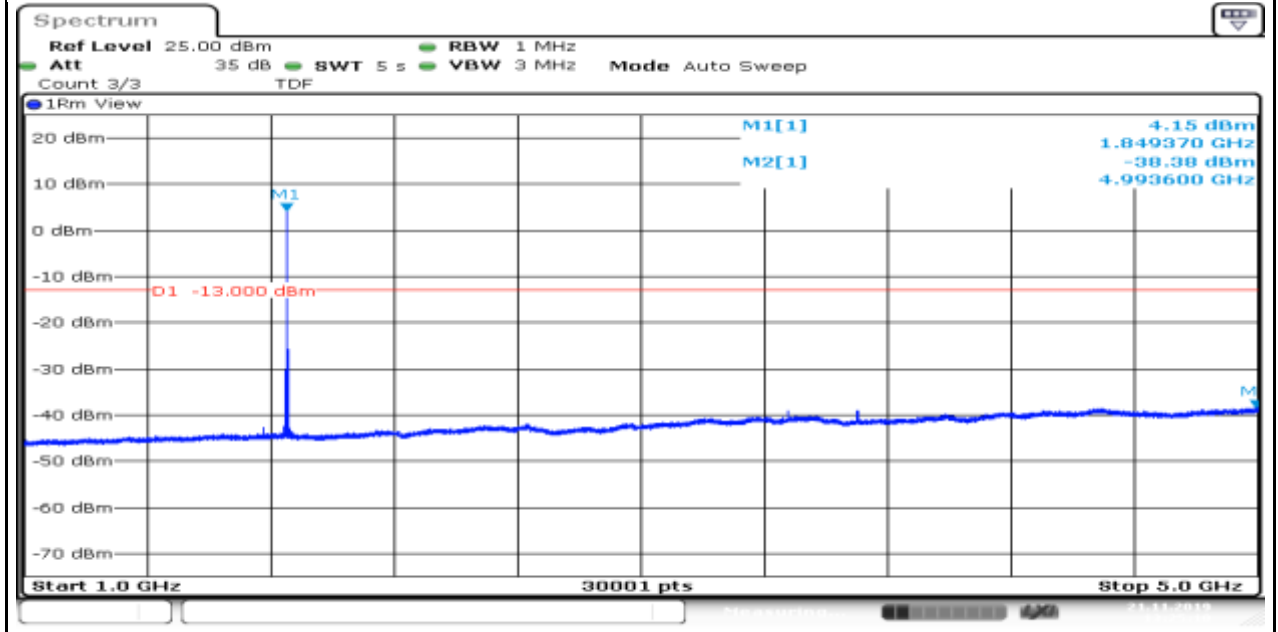
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Band2_1.4MHz_16QAM_18607_1_0_Low_30_1000_-36.32_PASS_

Produkte
Products

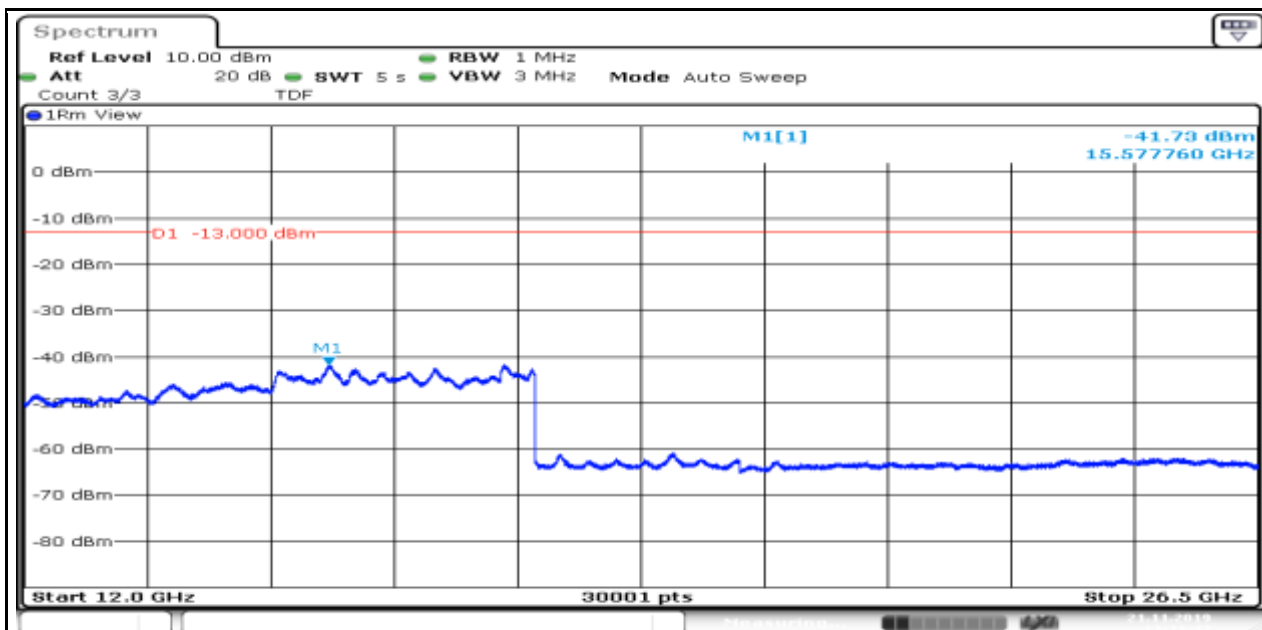


Band2_1.4MHz_16QAM_18607_6_0_Low_1000_5000_-38.38_PASS_



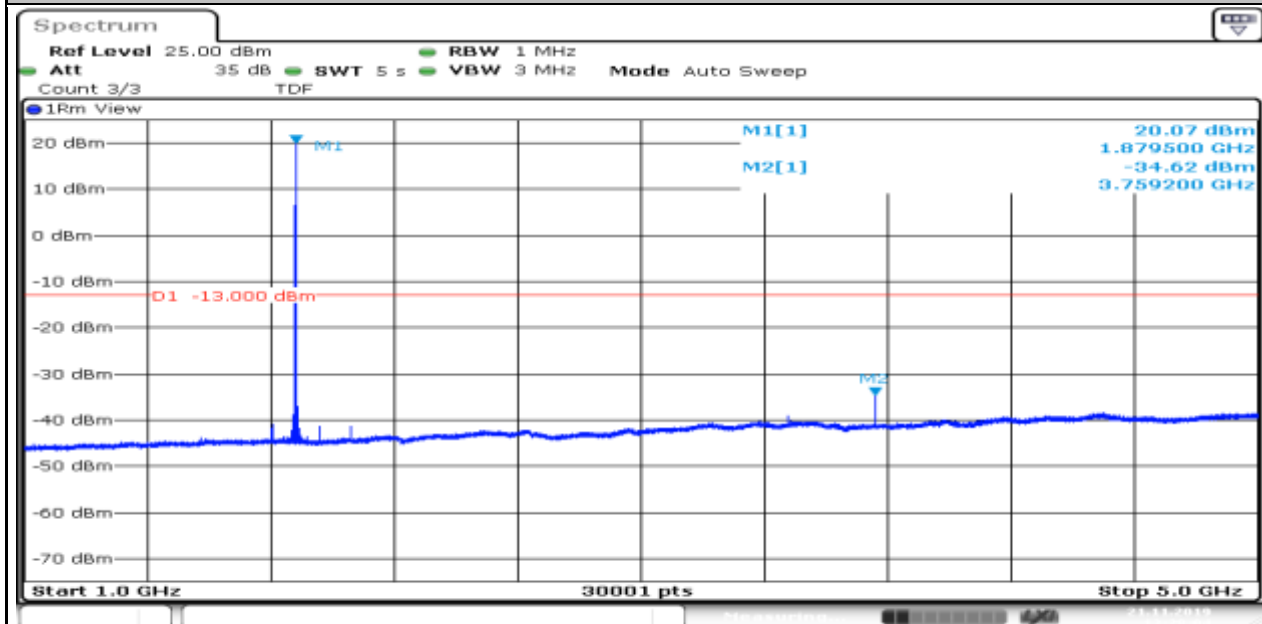
Band2_1.4MHz_16QAM_18900_6_0_Low_12000_26500_-41.73_PASS_

Produkte
 Products



Date: 21.NOV.2019 13:31:43

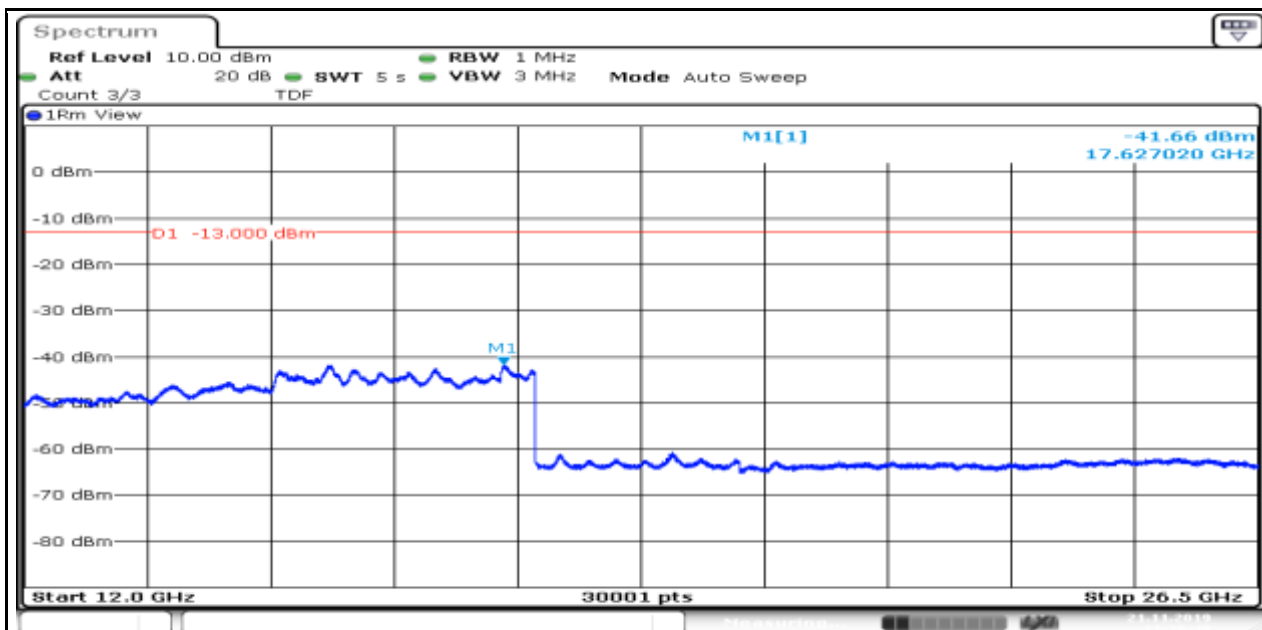
Band2_1.4MHz_16QAM_18900_1_0_Low_1000_5000_-34.62_PASS_



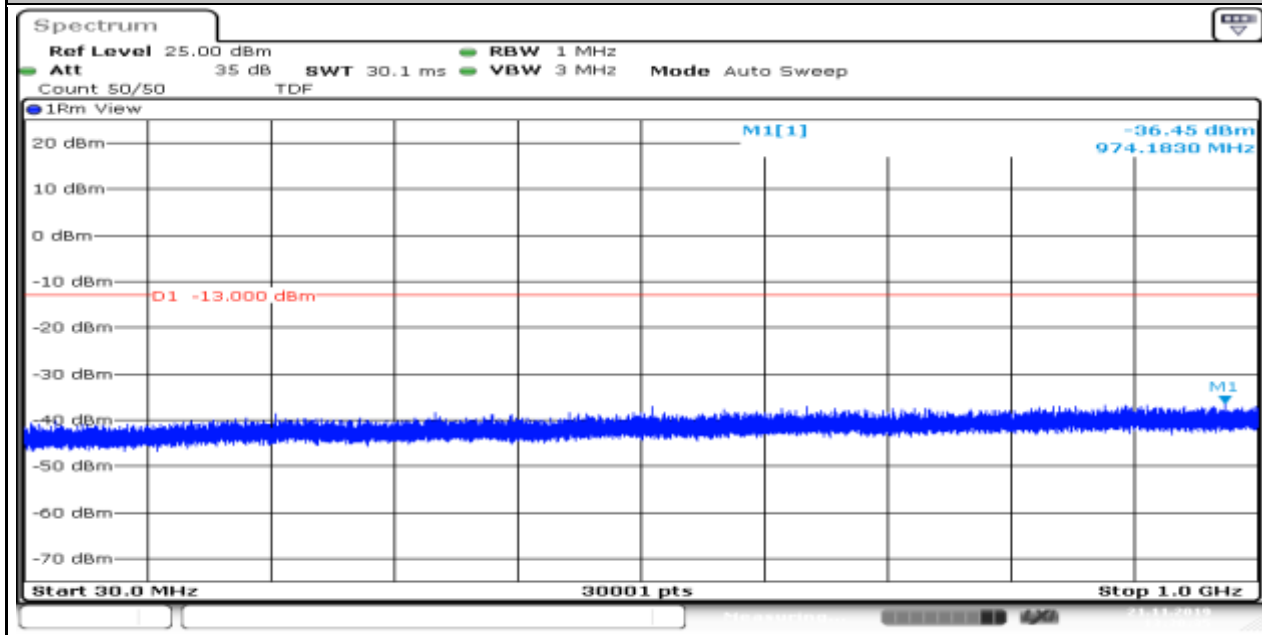
Date: 21.NOV.2019 13:28:05

Band2_1.4MHz_16QAM_18900_1_0_Low_12000_26500_-41.66_PASS_

Produkte
Products

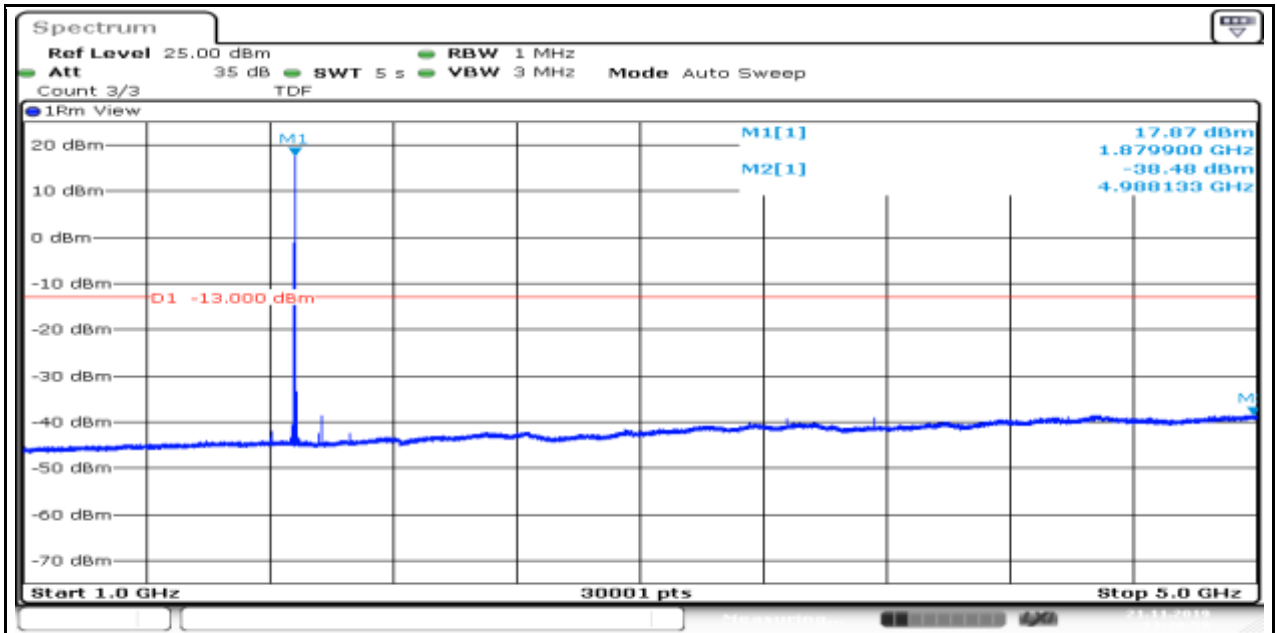


Band2_1.4MHz_16QAM_18900_6_0_Low_30_1000_-36.45_PASS_

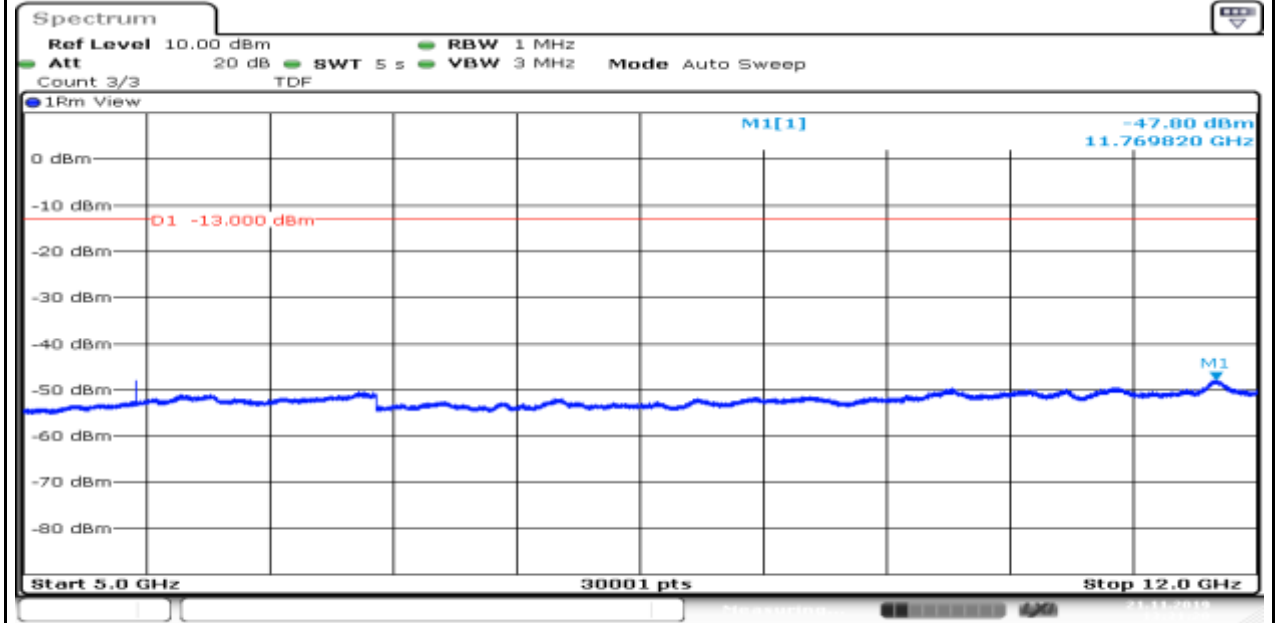


Band2_1.4MHz_16QAM_18900_6_0_Low_1000_5000_-38.48_PASS_

Produkte
Products

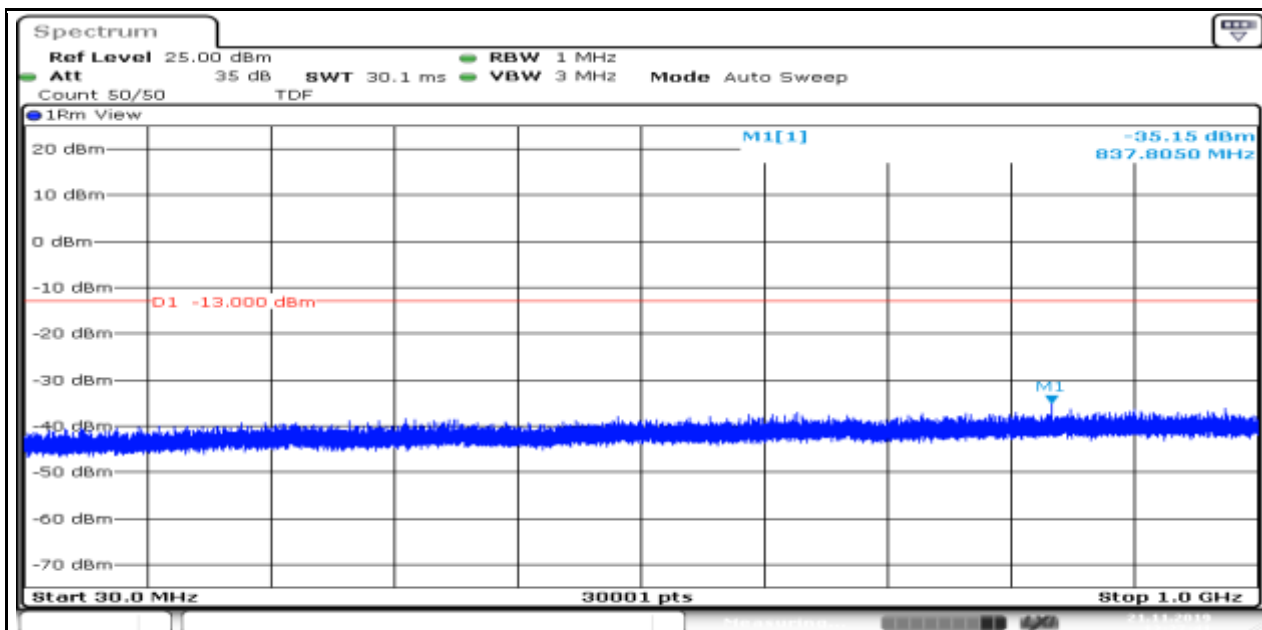


Band2_1.4MHz_16QAM_18900_6_0_Low_5000_12000_-47.8_PASS_

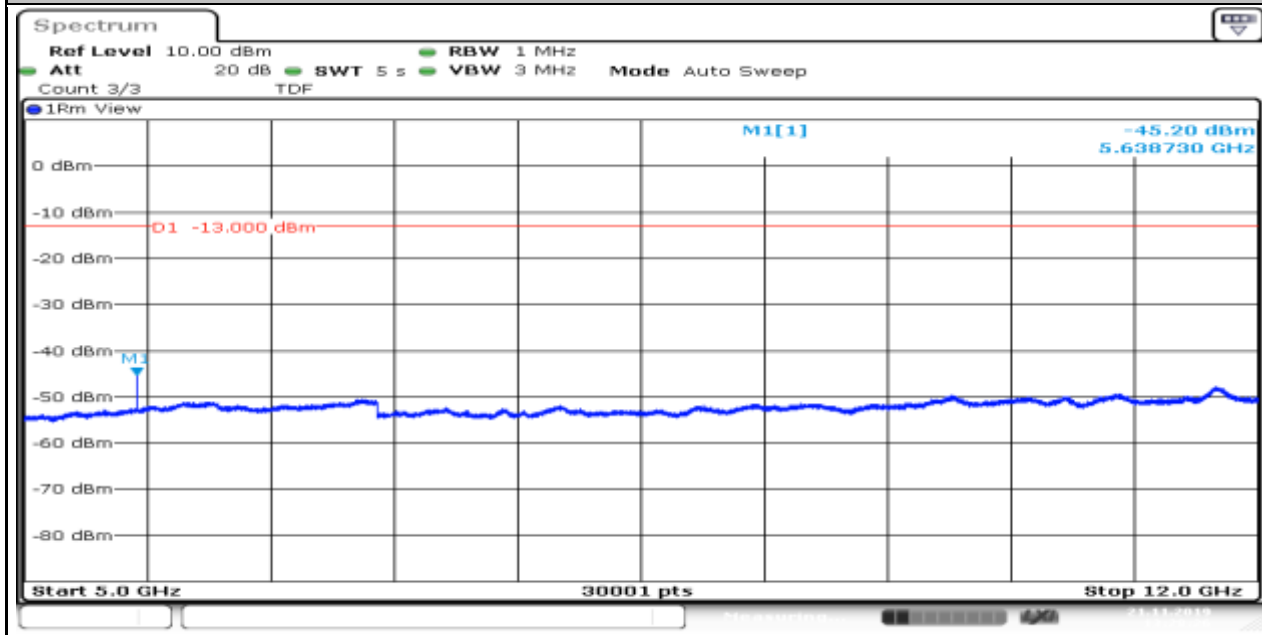


Band2_1.4MHz_16QAM_18900_1_0_Low_30_1000_-35.15_PASS_

Produkte
Products

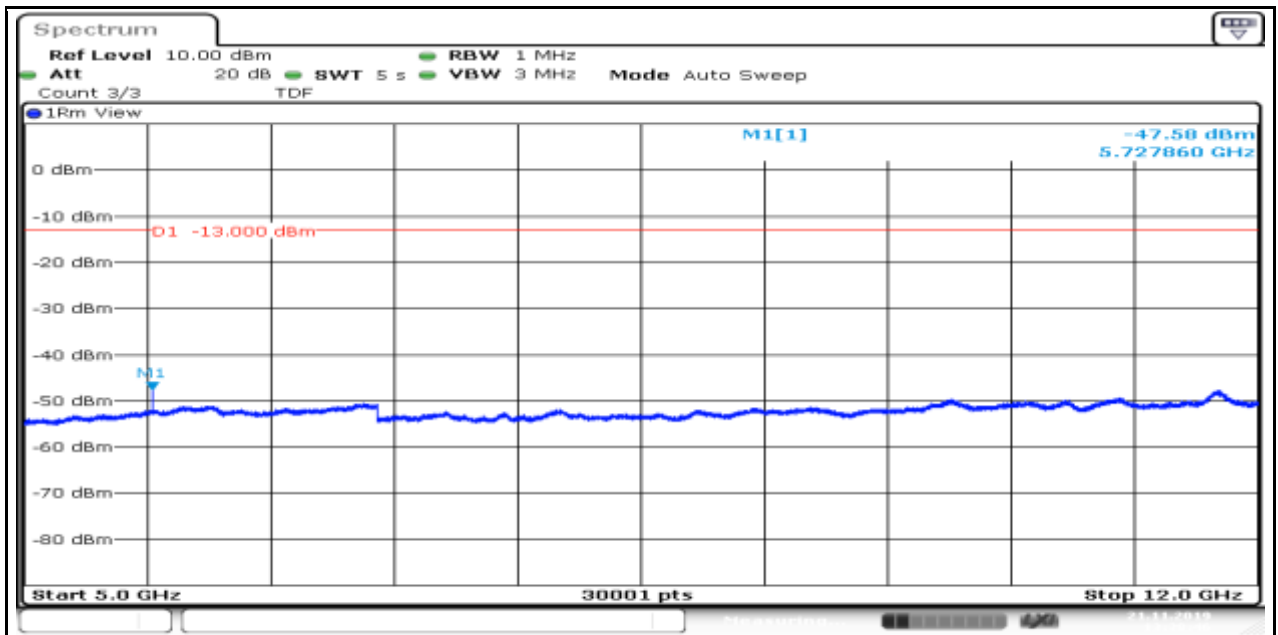


Band2_1.4MHz_16QAM_18900_1_0_Low_5000_12000_-45.2_PASS_



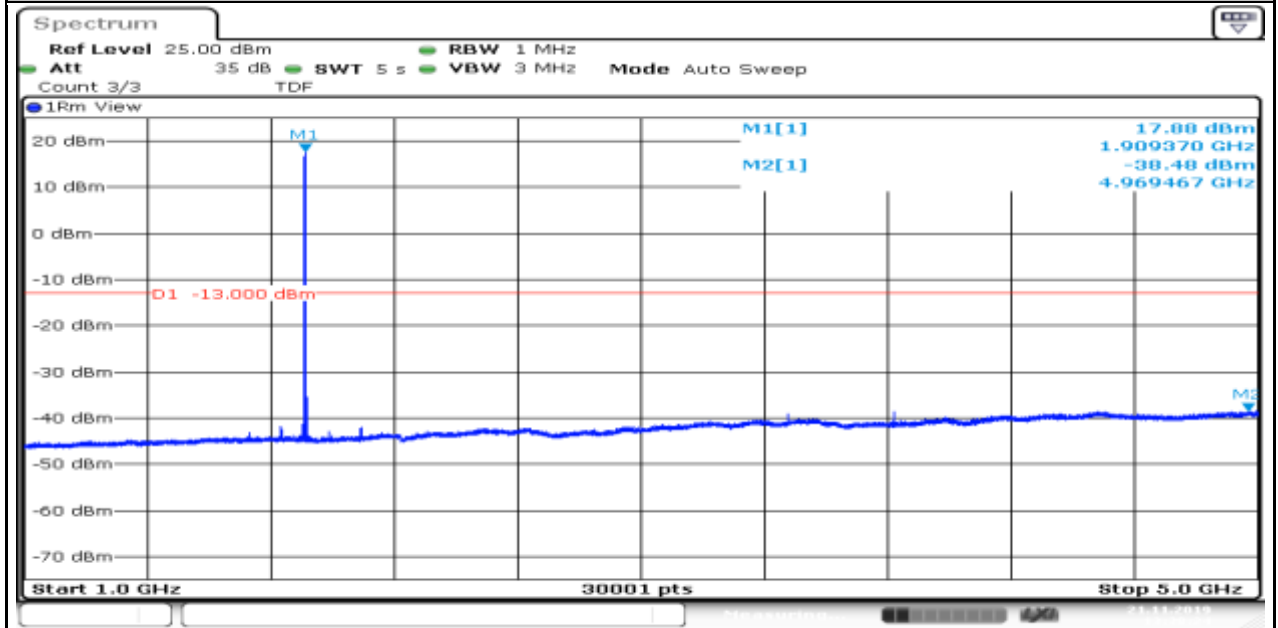
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Produkte
Products



Date: 21.NOV.2019 13:38:46

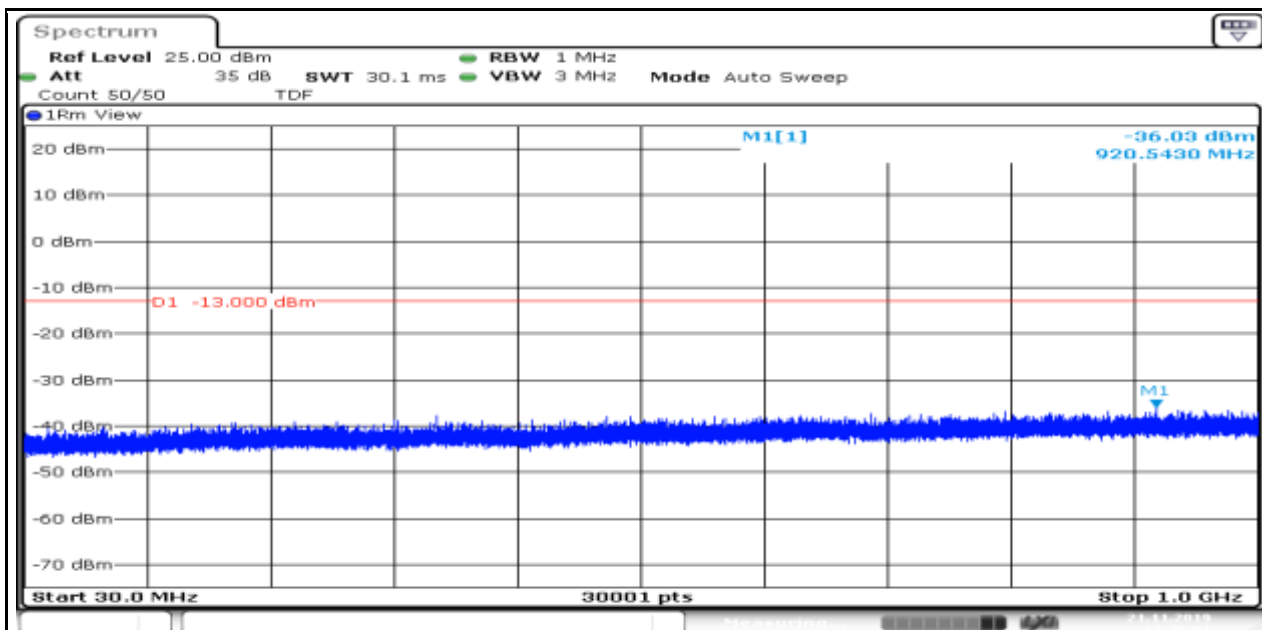
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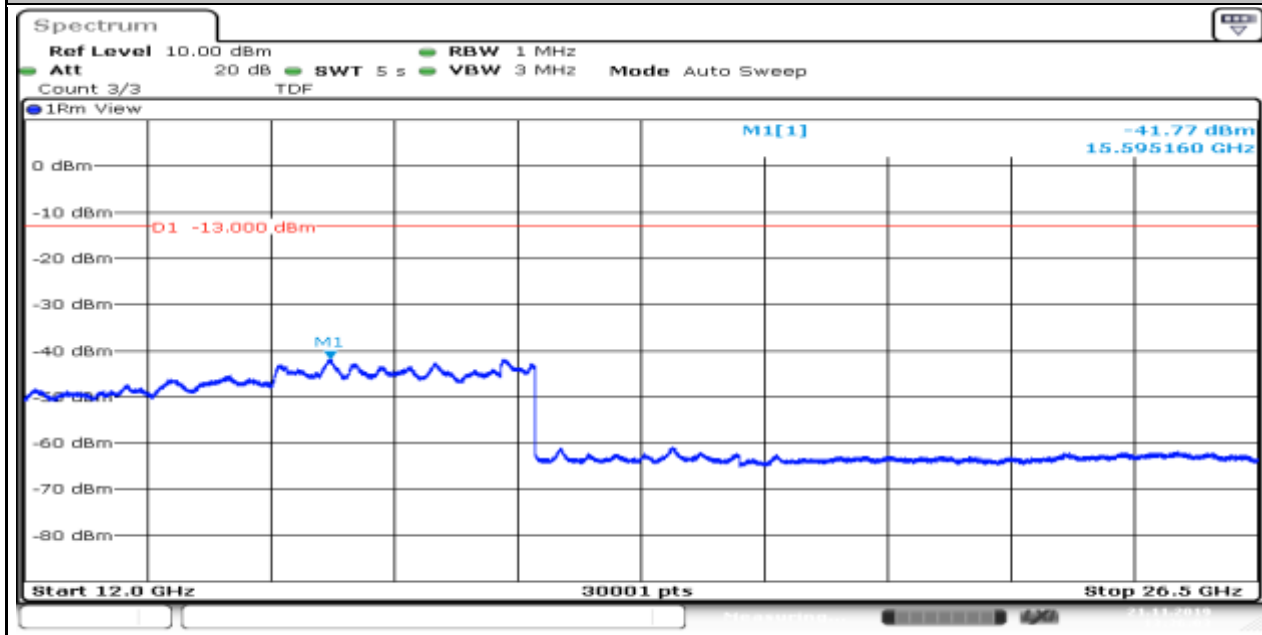
Date: 21.NOV.2019 13:38:24

Band2_1.4MHz_16QAM_19193_6_0_Low_30_1000_-36.03_PASS_

Produkte
Products

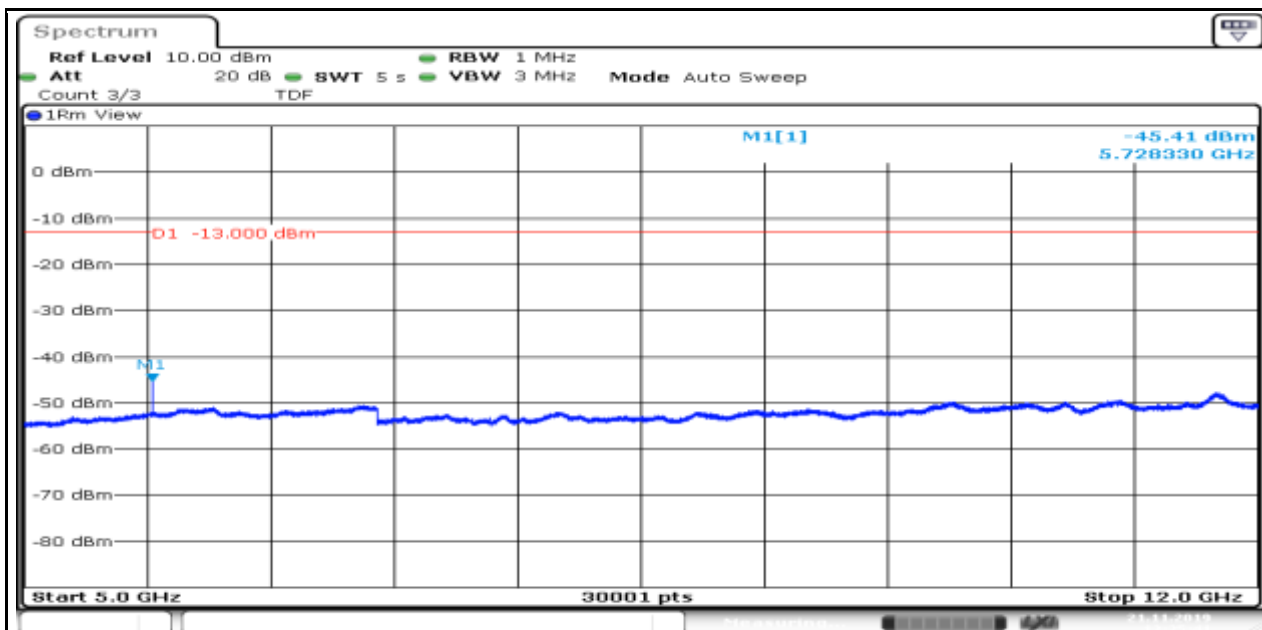


Band2_1.4MHz_16QAM_19193_1_5_Low_12000_26500_-41.77_PASS_



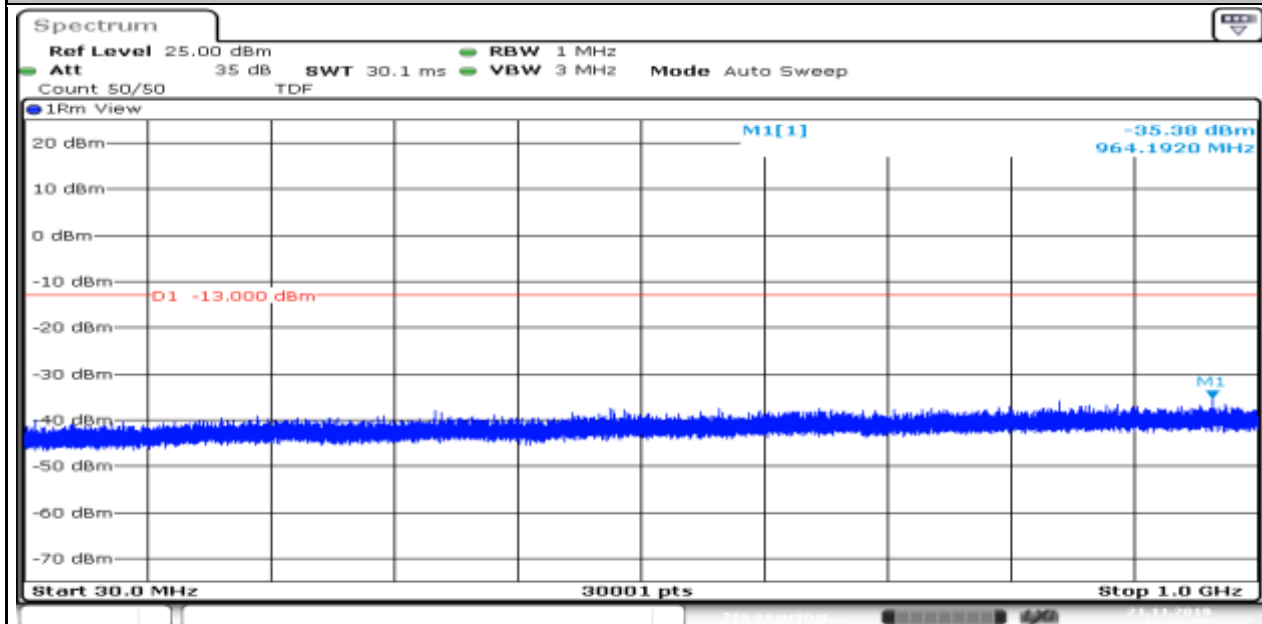
Band2_1.4MHz_16QAM_19193_1_5_Low_5000_12000_-45.41_PASS_

Produkte
Products



Date: 21.NOV.2019 13:35:42

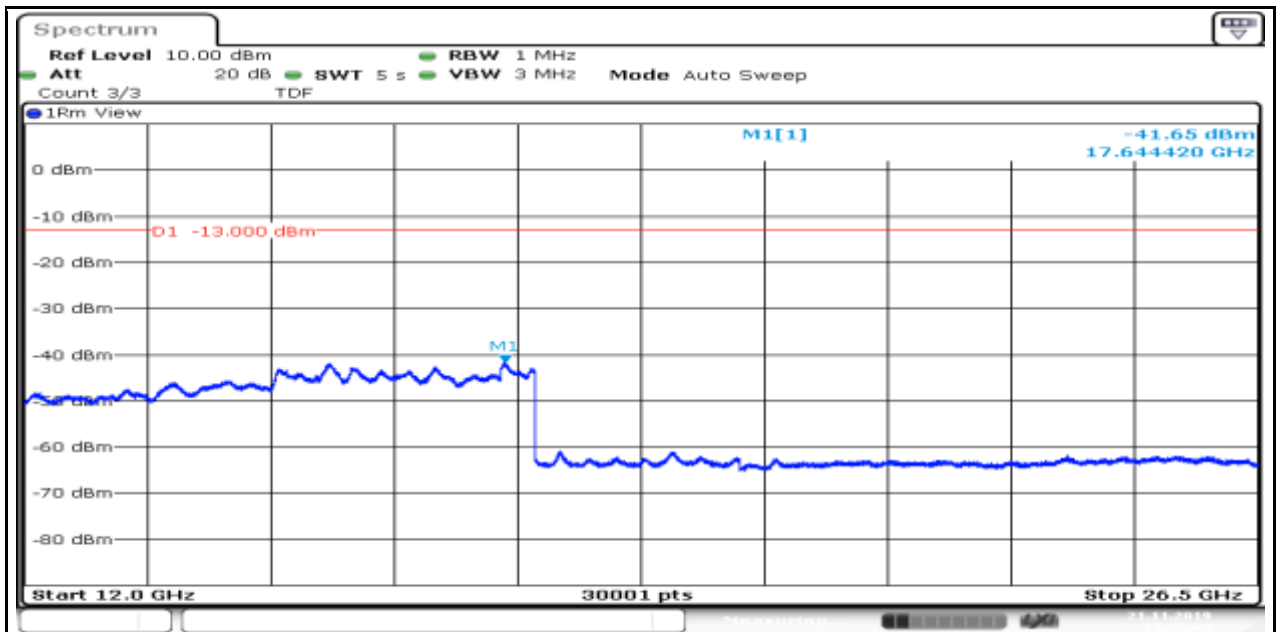
Band2_1.4MHz_16QAM_19193_1_5_Low_30_1000_-35.38_PASS_



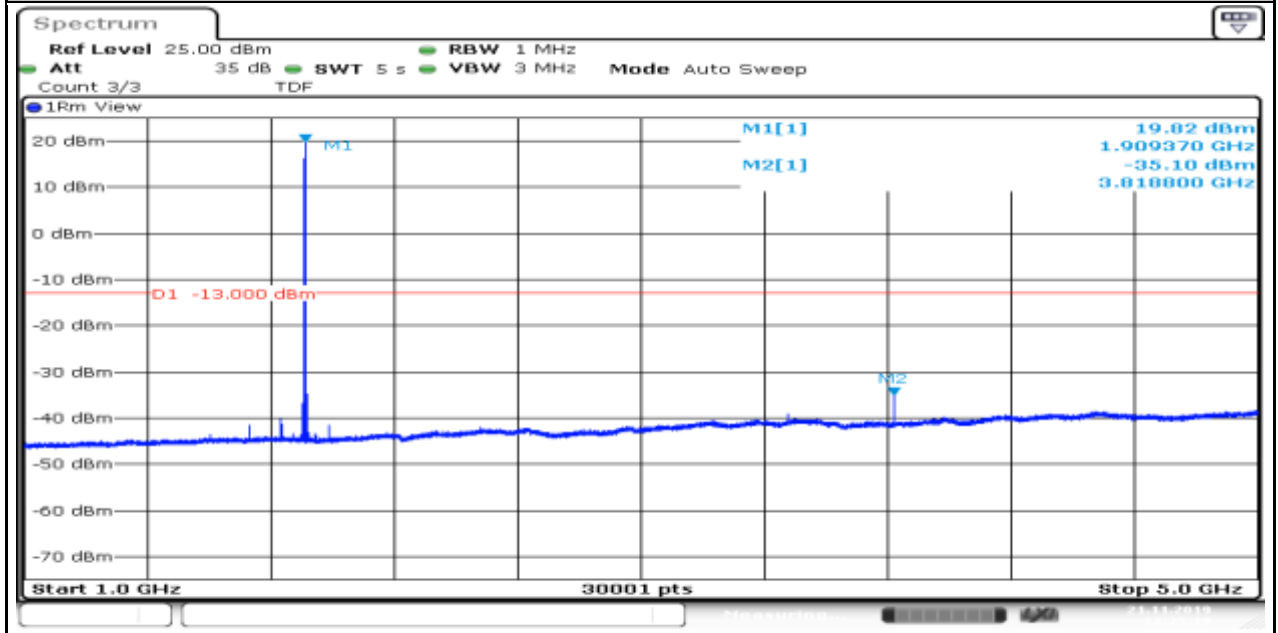
Date: 21.NOV.2019 13:34:57

Band2_1.4MHz_16QAM_19193_6_0_Low_12000_26500_-41.65_PASS_

Produkte
Products



Band2_1.4MHz_16QAM_19193_1_5_Low_1000_5000_-35.1_PASS_



Appendix A.6: Frequency Stability for M1

Test Result

| Voltage | | | | | | | | | | | | |
|---------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | LV | NT | 10.29 | 0.005473 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | HV | NT | 11.44 | 0.006085 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | NT | 7.4 | 0.003936 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | HV | NT | 72.44 | 0.038532 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | NT | 68.88 | 0.036638 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | LV | NT | 67.08 | 0.035681 | ±2.5 | PASS |

| Temperature | | | | | | | | | | | | |
|-------------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 20 | 11.83 | 0.006293 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 80 | -7.25 | -0.00386 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 70 | 9.2 | 0.004894 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 60 | 9.5 | 0.005053 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 50 | 13.36 | 0.007106 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 30 | 8.75 | 0.004654 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 85 | 7.88 | 0.004191 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 10 | 12.83 | 0.006824 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 0 | 11.03 | 0.005867 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | -10 | 6.59 | 0.003505 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | -20 | 9.13 | 0.004856 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | -30 | 7.78 | 0.004138 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | -40 | 10.64 | 0.00566 | ±2.5 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1 | 0 | Low | NV | 40 | 12.09 | 0.006431 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 20 | 64.89 | 0.034516 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 70 | 72.94 | 0.038798 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 80 | 71.97 | 0.038282 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 85 | 73.56 | 0.039128 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 60 | 69.65 | 0.037048 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 50 | 65.72 | 0.034957 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 40 | 69.94 | 0.037202 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 30 | 67.52 | 0.035915 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 10 | 68.84 | 0.036617 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | 0 | 69.57 | 0.037005 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | -10 | 68.02 | 0.036181 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | -30 | 67.08 | 0.035681 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | -40 | 67.99 | 0.036165 | ±2.5 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1 | 0 | Low | NV | -20 | 71.71 | 0.038144 | ±2.5 | PASS |

Appendix B: Test Results of Band 4 for eMTC operation

| | |
|---|----------|
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Appendix B.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result (dBm) | EIRP | | Limit (watts) | Verdict |
|-------|-----------|------------|---------|---------|----------|---------|--------------|-------|-------|---------------|---------|
| | | | | | | | | dBm | Watts | | |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | 21.56 | 23.70 | 0.234 | 1 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | 21.86 | 24.00 | 0.251 | 1 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | 21.81 | 23.95 | 0.248 | 1 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | 19.34 | 21.48 | 0.141 | 1 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 19.43 | 21.57 | 0.144 | 1 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | 19.7 | 21.84 | 0.153 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | 20.44 | 22.58 | 0.181 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | 20.53 | 22.67 | 0.185 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | 20.7 | 22.84 | 0.192 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | 19.26 | 21.40 | 0.138 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 19.34 | 21.48 | 0.141 | 1 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | 19.62 | 21.76 | 0.150 | 1 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1 | 0 | Low | 21.45 | 23.59 | 0.229 | 1 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1 | 0 | Low | 21.47 | 23.61 | 0.230 | 1 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1 | 5 | High | 21.72 | 23.86 | 0.243 | 1 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 6 | 0 | Low | 19.24 | 21.38 | 0.137 | 1 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 6 | 0 | Low | 19.34 | 21.48 | 0.141 | 1 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 6 | 0 | High | 19.62 | 21.76 | 0.150 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1 | 0 | Low | 20.67 | 22.81 | 0.191 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1 | 0 | Low | 20.54 | 22.68 | 0.185 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1 | 5 | High | 20.84 | 22.98 | 0.199 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 6 | 0 | Low | 19.24 | 21.38 | 0.137 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 6 | 0 | Low | 19.33 | 21.47 | 0.140 | 1 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 6 | 0 | High | 19.6 | 21.74 | 0.149 | 1 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1 | 0 | Low | 21.61 | 23.75 | 0.237 | 1 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1 | 0 | Low | 21.48 | 23.62 | 0.230 | 1 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1 | 5 | High | 21.66 | 23.80 | 0.240 | 1 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 3 | 3 | High | 21.71 | 23.85 | 0.243 | 1 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 6 | 0 | Low | 20.33 | 22.47 | 0.177 | 1 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 6 | 0 | Low | 20.49 | 22.63 | 0.183 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1 | 0 | Low | 21.28 | 23.42 | 0.220 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1 | 0 | Low | 21.48 | 23.62 | 0.230 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1 | 5 | High | 21.31 | 23.45 | 0.221 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 3 | 3 | High | 21.54 | 23.68 | 0.233 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 6 | 0 | Low | 20.33 | 22.47 | 0.177 | 1 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 6 | 0 | Low | 20.49 | 22.63 | 0.183 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1 | 0 | Low | 21.41 | 23.55 | 0.226 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1 | 0 | Low | 21.55 | 23.69 | 0.234 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1 | 5 | High | 21.76 | 23.90 | 0.245 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 5 | 0 | Low | 21.2 | 23.34 | 0.216 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 5 | 0 | Low | 21.36 | 23.50 | 0.224 | 1 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 5 | 1 | High | 21.74 | 23.88 | 0.244 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1 | 0 | Low | 21.1 | 23.24 | 0.211 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1 | 0 | Low | 21.23 | 23.37 | 0.217 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1 | 5 | High | 21.39 | 23.53 | 0.225 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 5 | 0 | Low | 21.23 | 23.37 | 0.217 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 5 | 0 | Low | 21.27 | 23.41 | 0.219 | 1 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 5 | 1 | High | 21.59 | 23.73 | 0.236 | 1 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1 | 0 | Low | 21.55 | 23.69 | 0.234 | 1 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1 | 0 | Low | 21.63 | 23.77 | 0.238 | 1 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1 | 5 | High | 21.8 | 23.94 | 0.248 | 1 | PASS |

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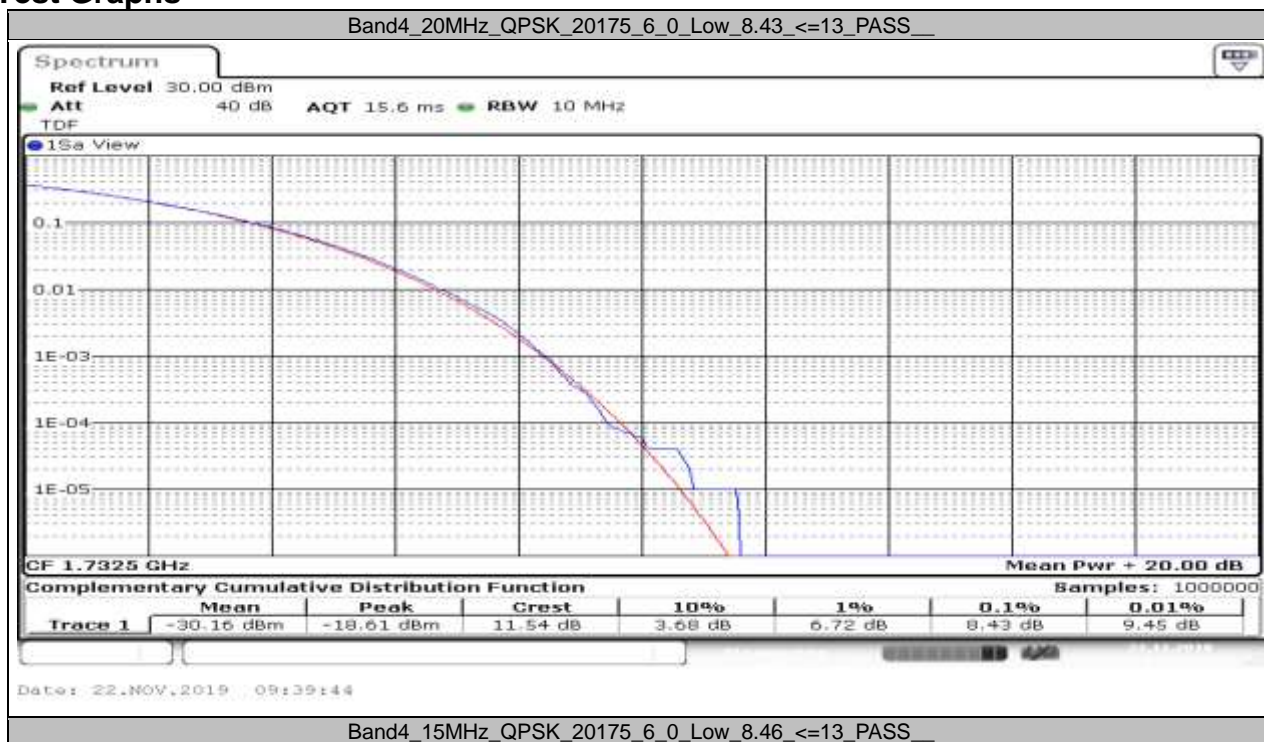
| | | | | | | | | | | | |
|-------|-------|-------|-------|---|---|------|-------|-------|-------|---|------|
| Band4 | 15MHz | QPSK | 20025 | 6 | 0 | Low | 21.34 | 23.48 | 0.223 | 1 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 6 | 0 | Low | 21.36 | 23.50 | 0.224 | 1 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 6 | 0 | High | 21.71 | 23.85 | 0.243 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1 | 0 | Low | 21.28 | 23.42 | 0.220 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1 | 0 | Low | 21.47 | 23.61 | 0.230 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1 | 5 | High | 21.4 | 23.54 | 0.226 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 6 | 0 | Low | 21.34 | 23.48 | 0.223 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 6 | 0 | Low | 21.36 | 23.50 | 0.224 | 1 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 6 | 0 | High | 21.7 | 23.84 | 0.242 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1 | 0 | Low | 21.57 | 23.71 | 0.235 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1 | 0 | Low | 21.65 | 23.79 | 0.239 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1 | 5 | High | 21.78 | 23.92 | 0.247 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 6 | 0 | Low | 21.35 | 23.49 | 0.223 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 6 | 0 | Low | 21.43 | 23.57 | 0.228 | 1 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 6 | 0 | High | 21.73 | 23.87 | 0.244 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1 | 0 | Low | 21.19 | 23.33 | 0.215 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1 | 0 | Low | 21.47 | 23.61 | 0.230 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1 | 5 | High | 21.33 | 23.47 | 0.222 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 6 | 0 | Low | 21.35 | 23.49 | 0.223 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 6 | 0 | Low | 21.44 | 23.58 | 0.228 | 1 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 6 | 0 | High | 21.73 | 23.87 | 0.244 | 1 | PASS |

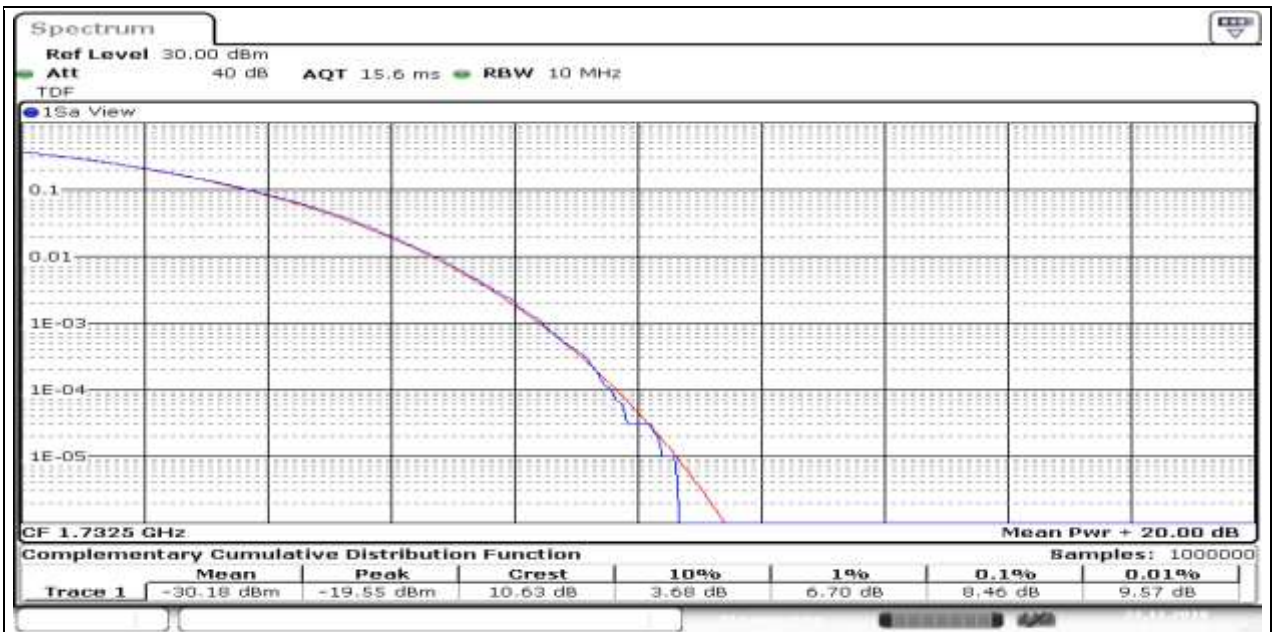
Appendix B.2: Peak-to-Average Ratio (CCDF) for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band4 | 20MHz | QPSK | 20175 | 6 | 0 | Low | 8.43 | <=13 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 6 | 0 | Low | 8.46 | <=13 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 6 | 0 | Low | 8.46 | <=13 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 6 | 0 | Low | 8.41 | <=13 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 6 | 0 | Low | 8.46 | <=13 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 8.35 | <=13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 6 | 0 | Low | 8.35 | <=13 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 6 | 0 | Low | 9.25 | <=13 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 6 | 0 | Low | 10.93 | <=13 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 6 | 0 | Low | 8.70 | <=13 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 6 | 0 | Low | 8.93 | <=13 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 9.88 | <=13 | PASS |

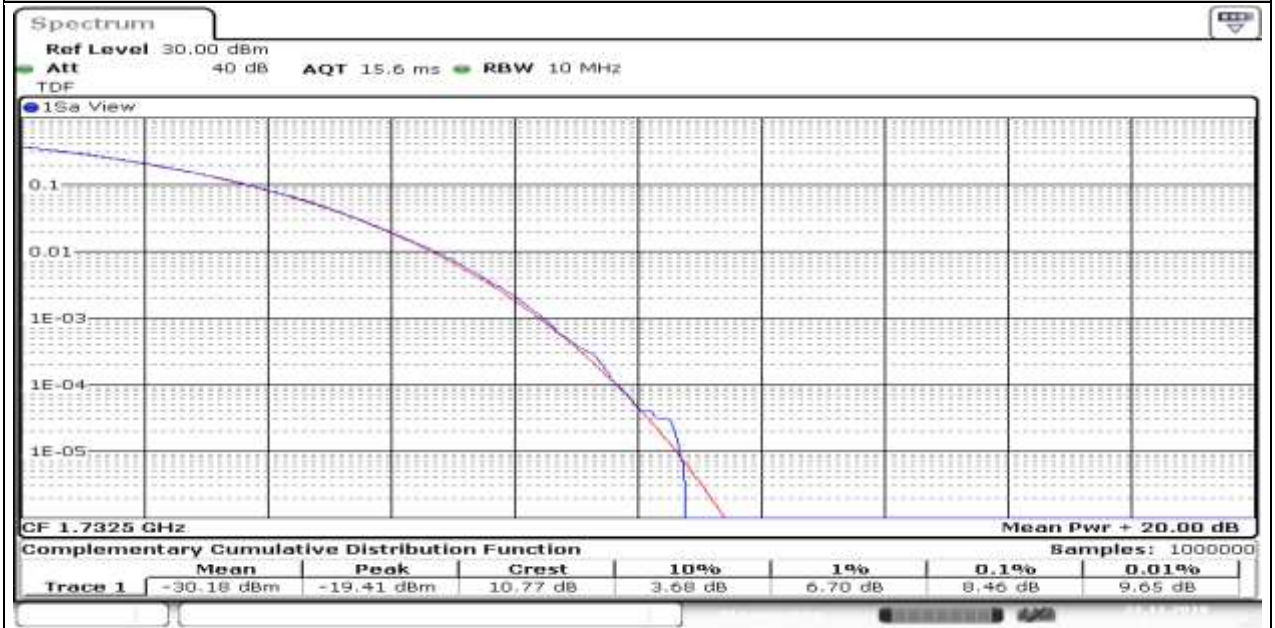
Test Graphs





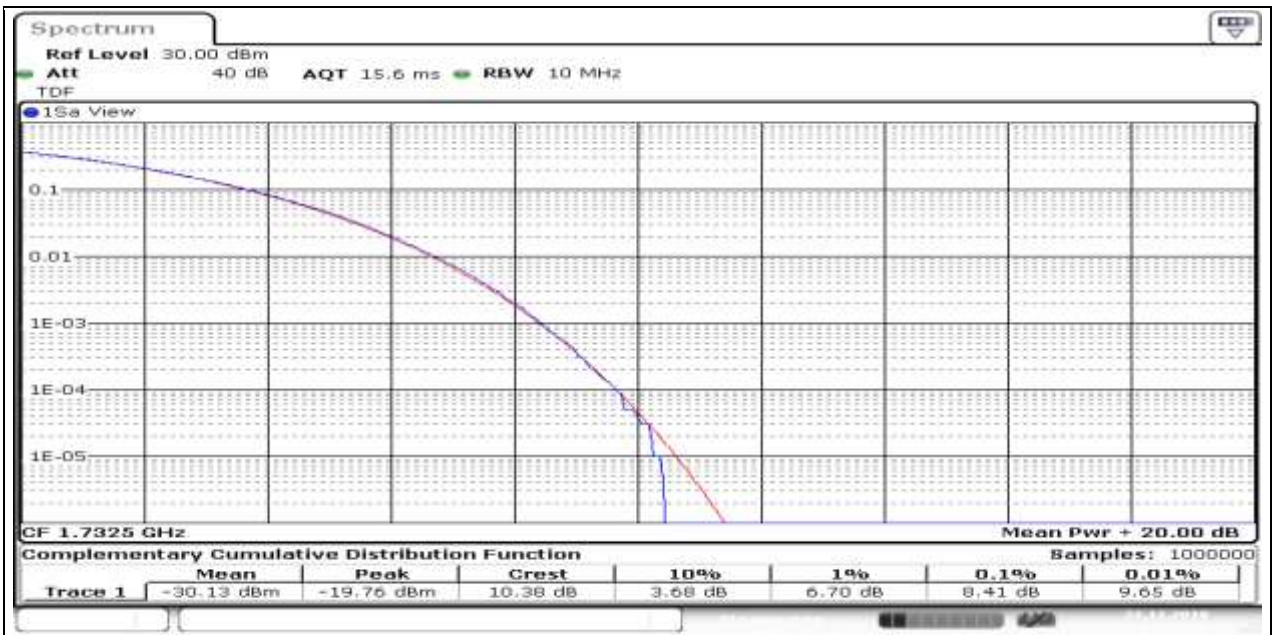
Date: 22.NOV.2019 09:37:39

Band4_10MHz_QPSK_20175_6_0_Low_8.46_<=13_PASS_



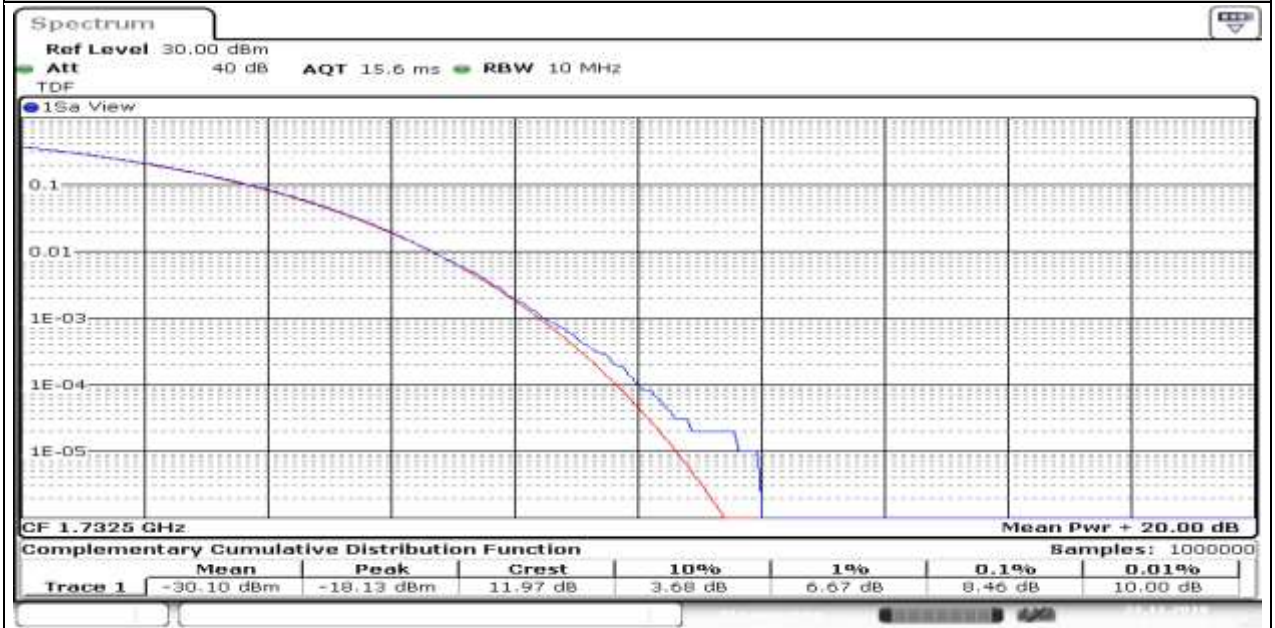
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Band4_5MHz_QPSK_20175_6_0_Low_8.41_<=13_PASS_



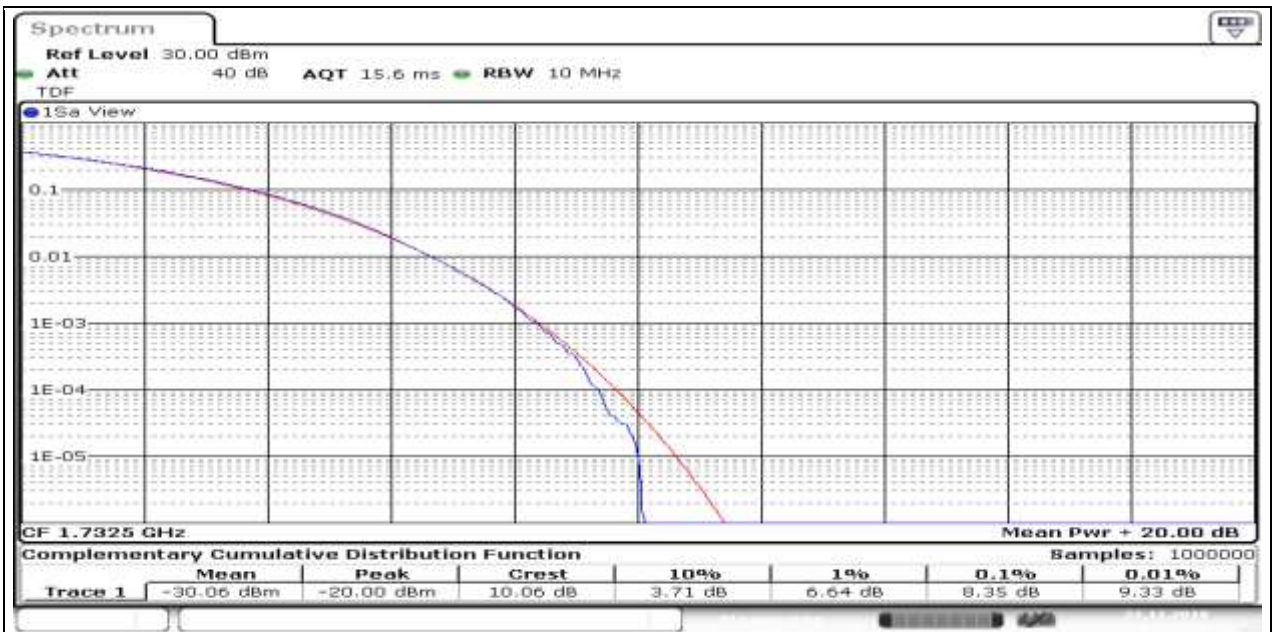
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Band4_3MHz_QPSK_20175_6_0_Low_8.46_<=13_PASS_



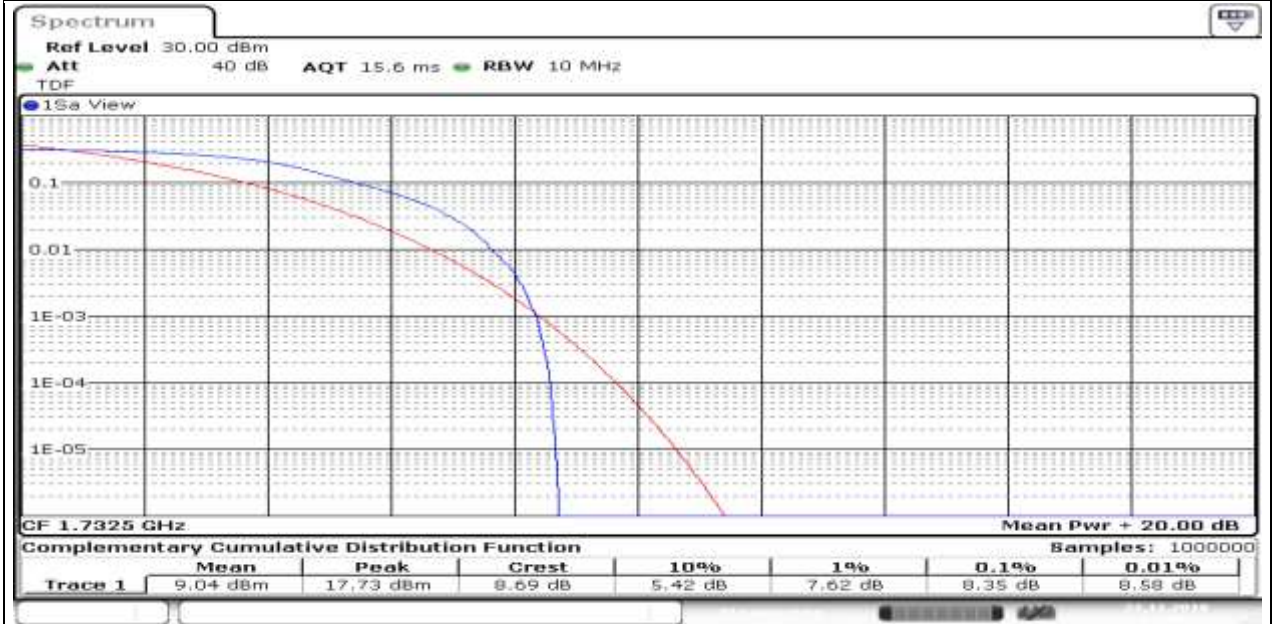
Date: 22.NOV.2019 09:14:12

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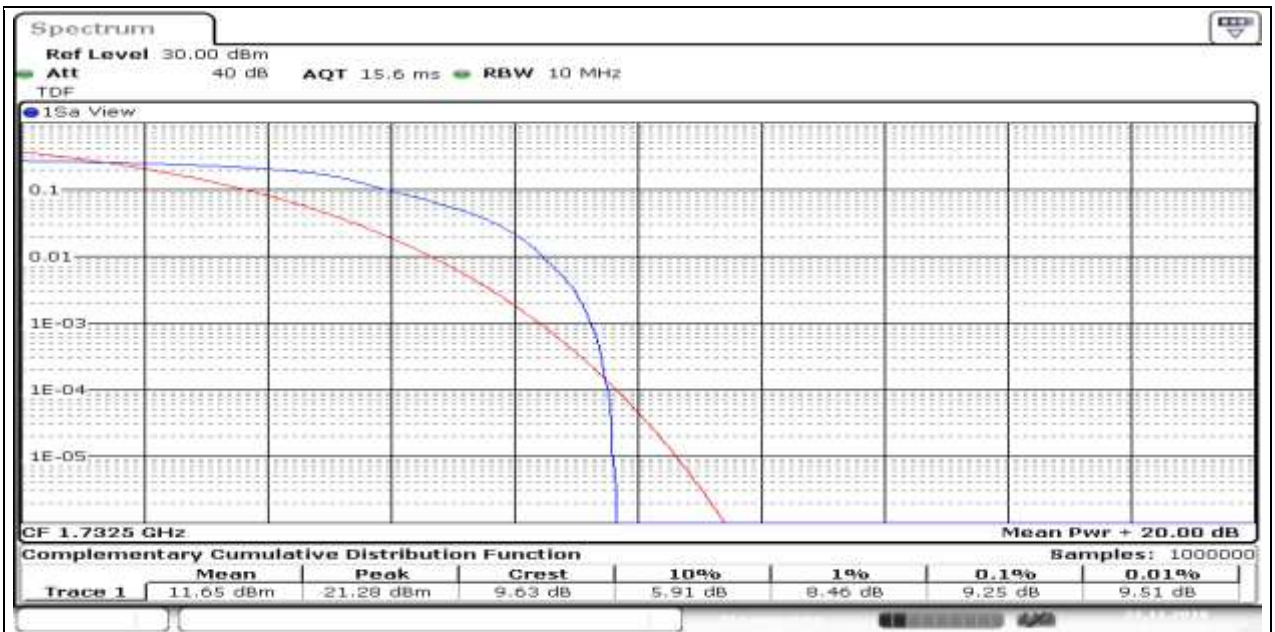
Date: 22.NOV.2019 09:12:19

Band4_20MHz_16QAM_20175_6_0_Low_8.35_<=13_PASS_



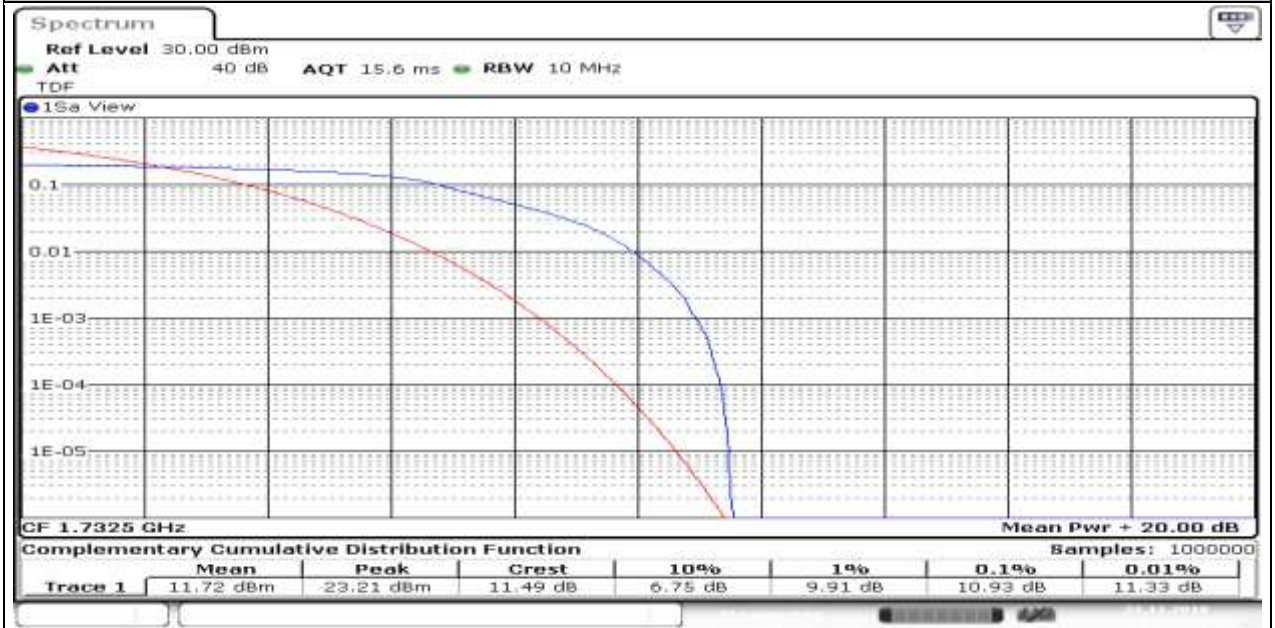
Date: 22.NOV.2019 09:40:00

Band4_15MHz_16QAM_20175_6_0_Low_9.25_<=13_PASS_



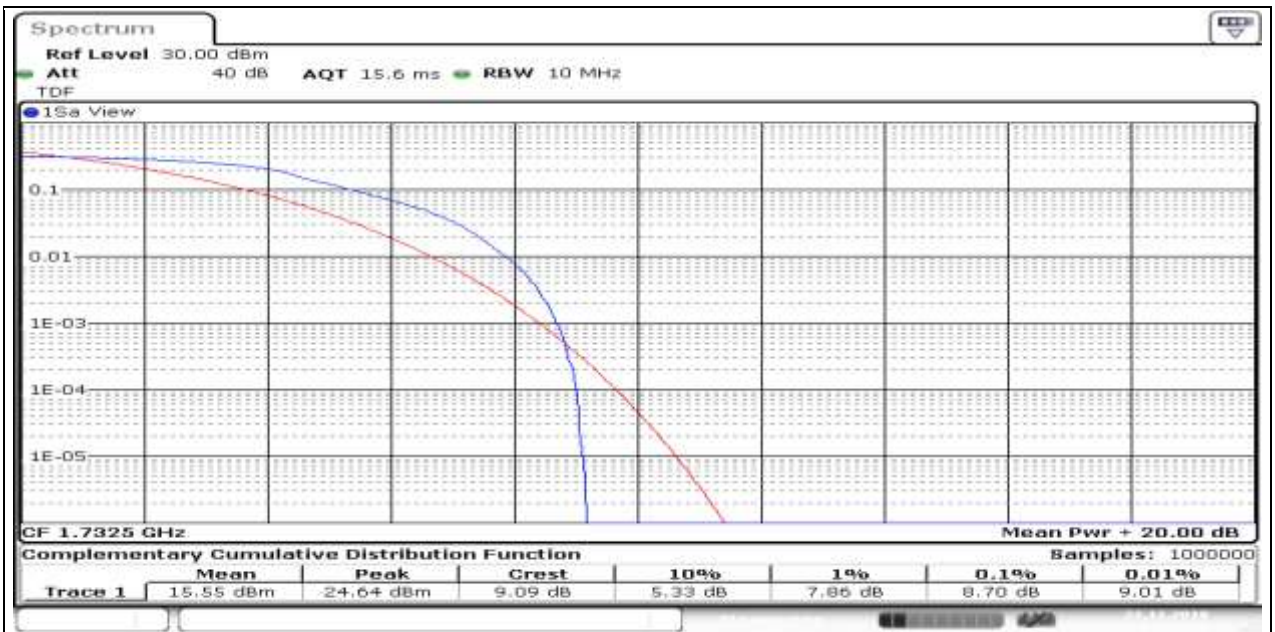
Date: 22.NOV.2019 09:37:56

Band4_10MHz_16QAM_20175_6_0 Low_10.93 <=13_PASS



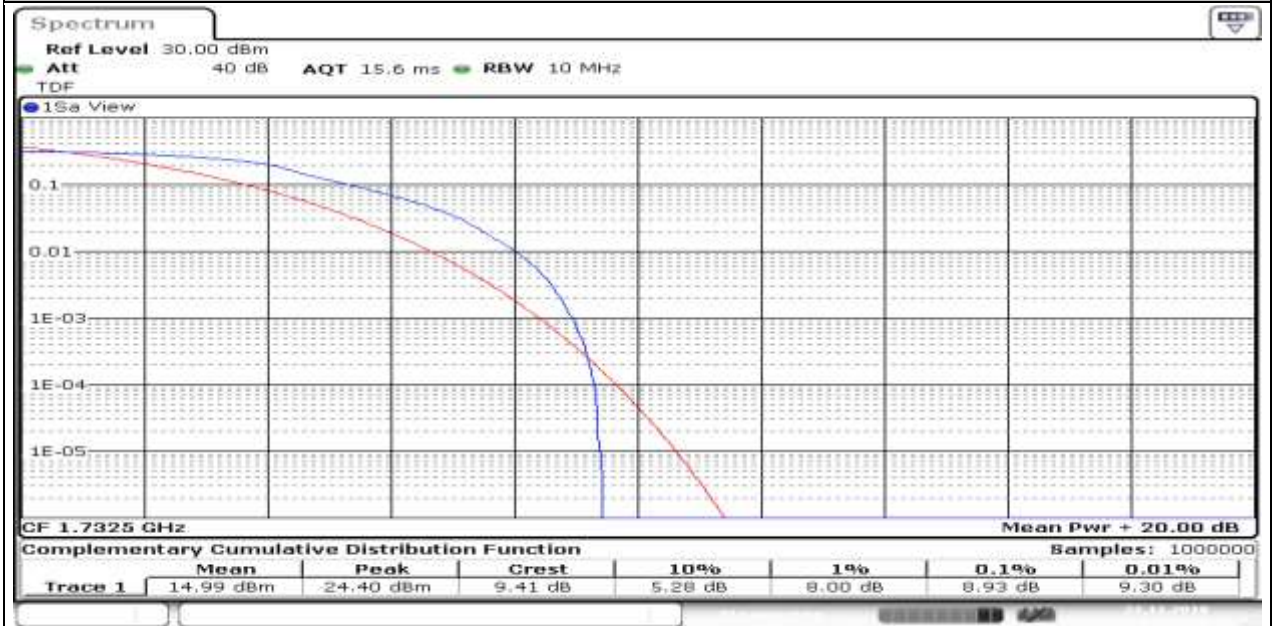
Date: 22.NOV.2019 09:31:48

Band4_5MHz_16QAM_20175_6_0 Low_8.70 <=13_PASS



Date: 22.NOV.2019 09:16:43

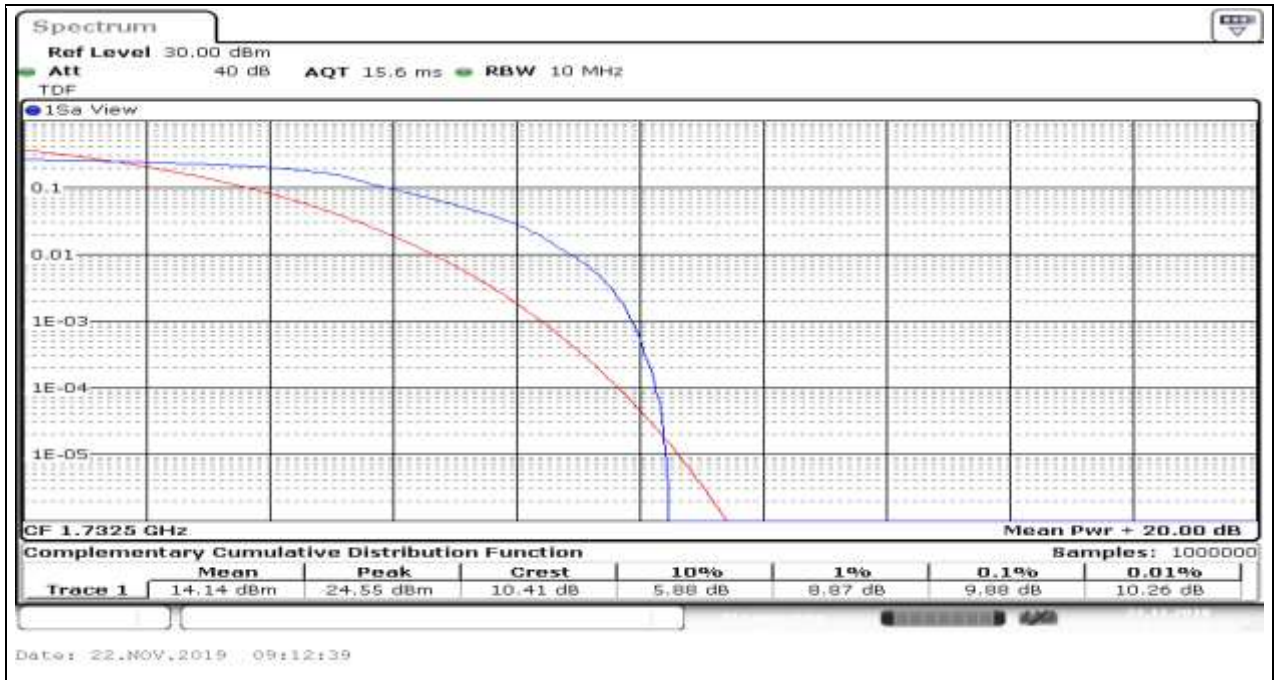
Band4_3MHz_16QAM_20175_6_0_Low_8.93_<=13_PASS_



Date: 22.NOV.2019 09:14:39

Band4_1.4MHz_16QAM_20175_6_0_Low_9.88_<=13_PASS_

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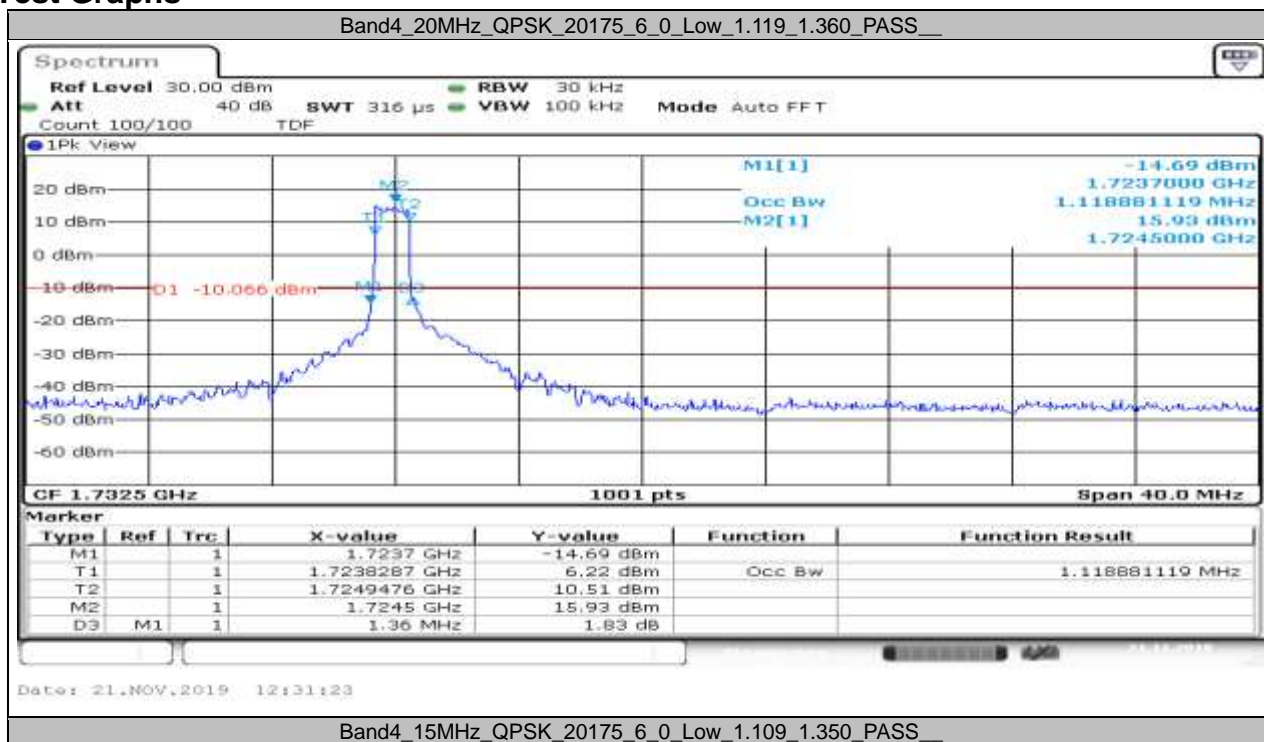


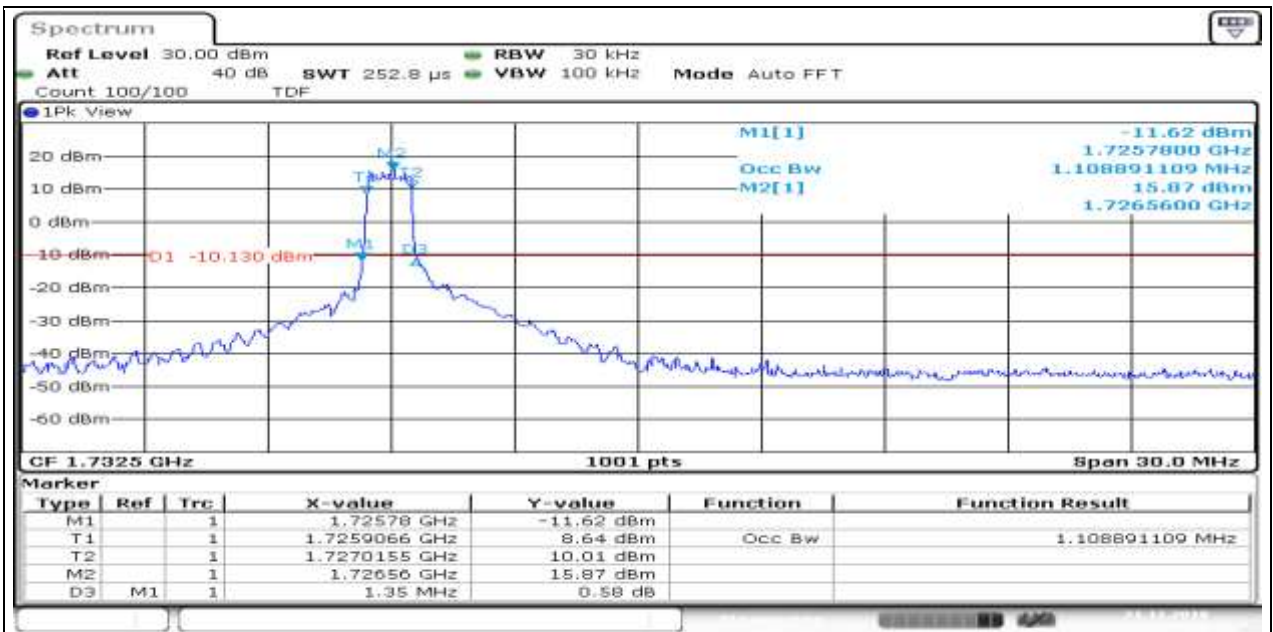
Appendix B.3: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band4 | 20MHz | QPSK | 20175 | 6 | 0 | Low | 1.119 | 1.360 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 6 | 0 | Low | 1.109 | 1.350 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 6 | 0 | Low | 1.099 | 1.420 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 6 | 0 | Low | 1.089 | 1.290 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 6 | 0 | Low | 1.103 | 1.296 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 1.1 | 1.314 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 6 | 0 | Low | 1.119 | 1.400 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 6 | 0 | Low | 1.109 | 1.410 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 6 | 0 | Low | 1.099 | 1.420 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 6 | 0 | Low | 1.099 | 1.320 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 6 | 0 | Low | 1.103 | 1.314 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 1.1 | 1.311 | PASS |

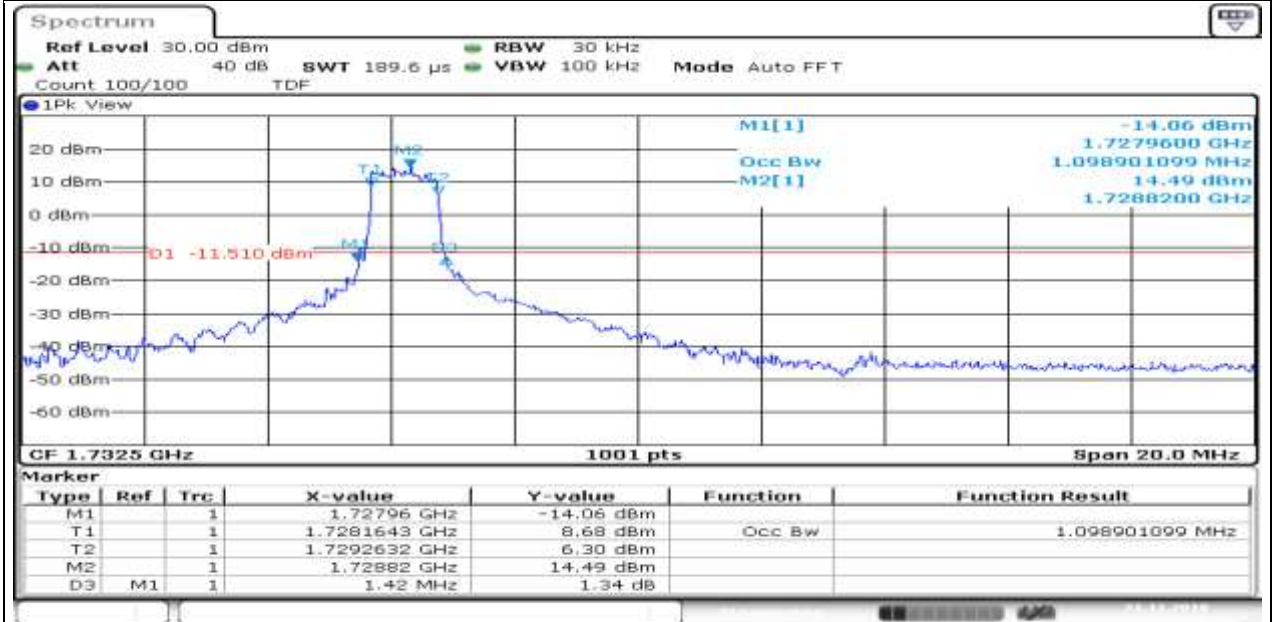
Test Graphs





Date: 21.NOV.2019 12:29:16

Band4_10MHz_QPSK_20175_6_0_Low_1.099_1.420_PASS



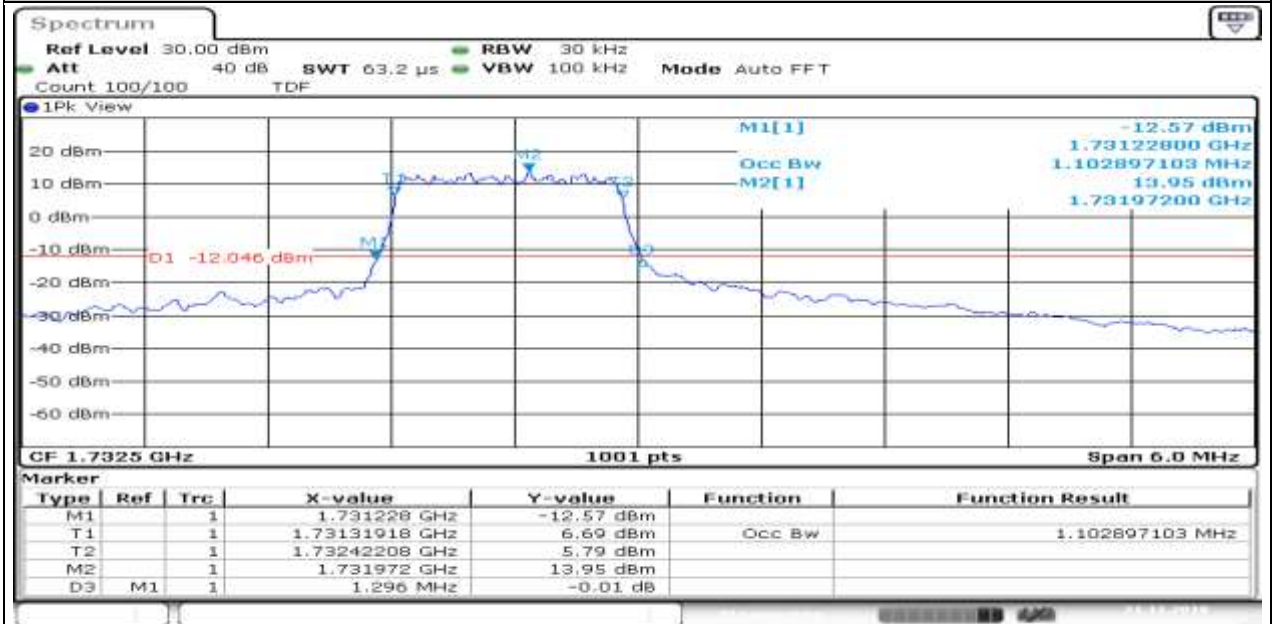
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Band4_5MHz_QPSK_20175_6_0_Low_1.089_1.290_PASS



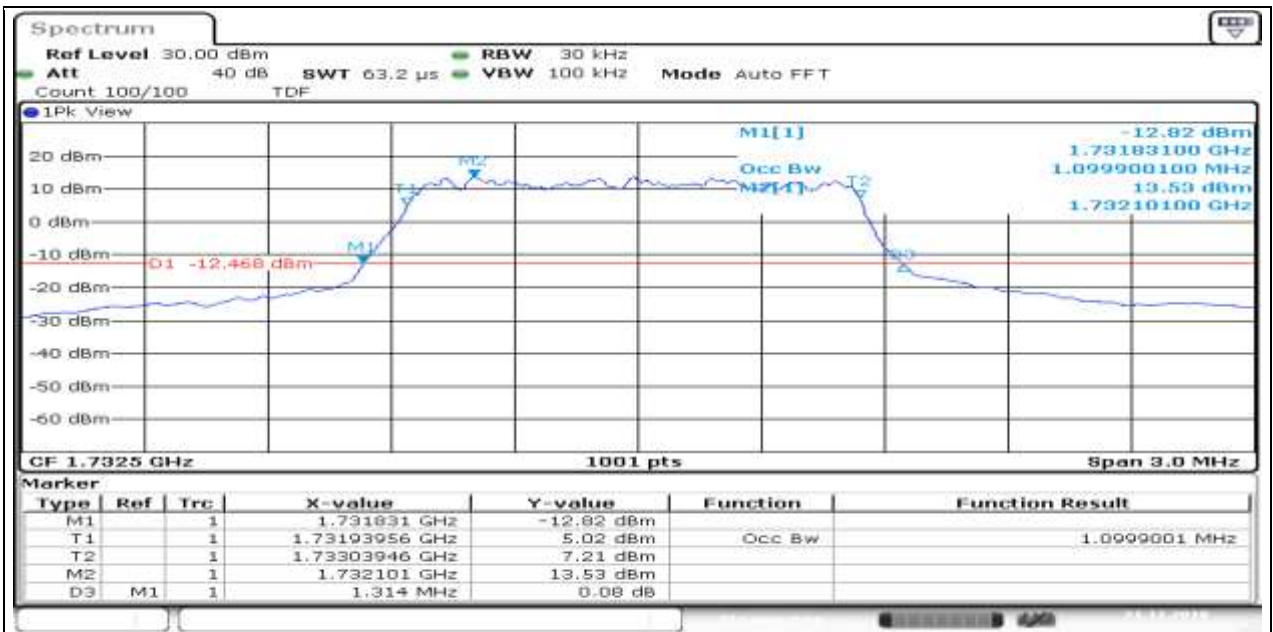
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Band4_3MHz_QPSK_20175_6_0_Low_1.103_1.296_PASS

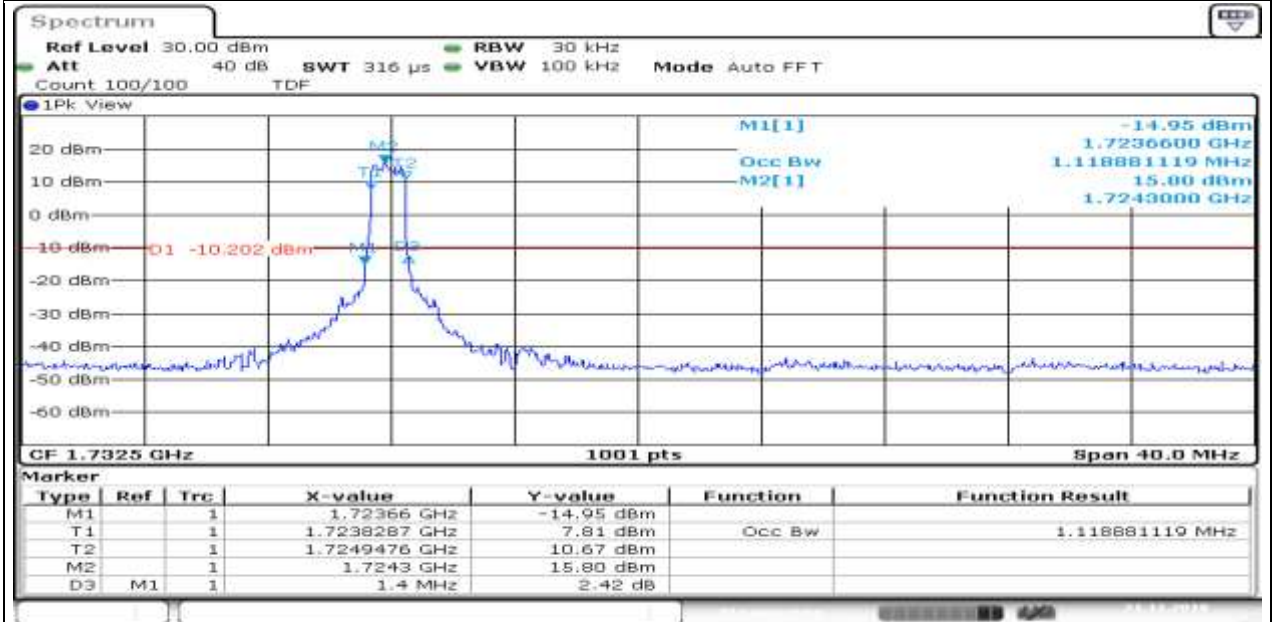


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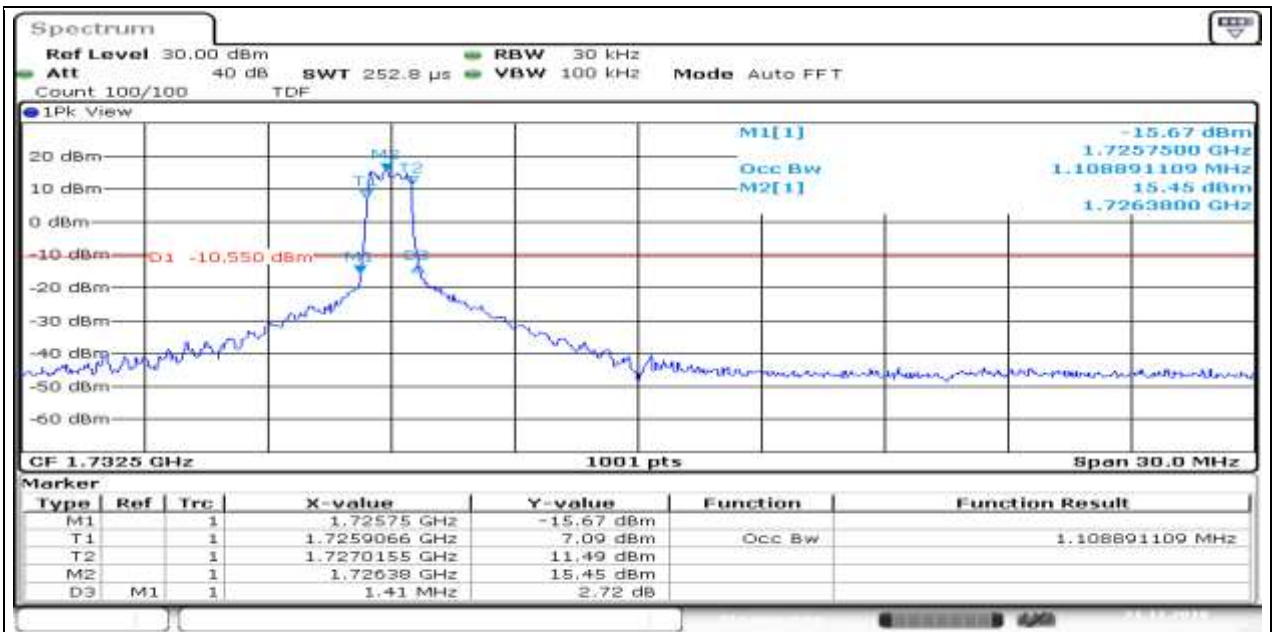
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Band4_20MHz_16QAM_20175_6_0_Low_1.119_1.400_PASS

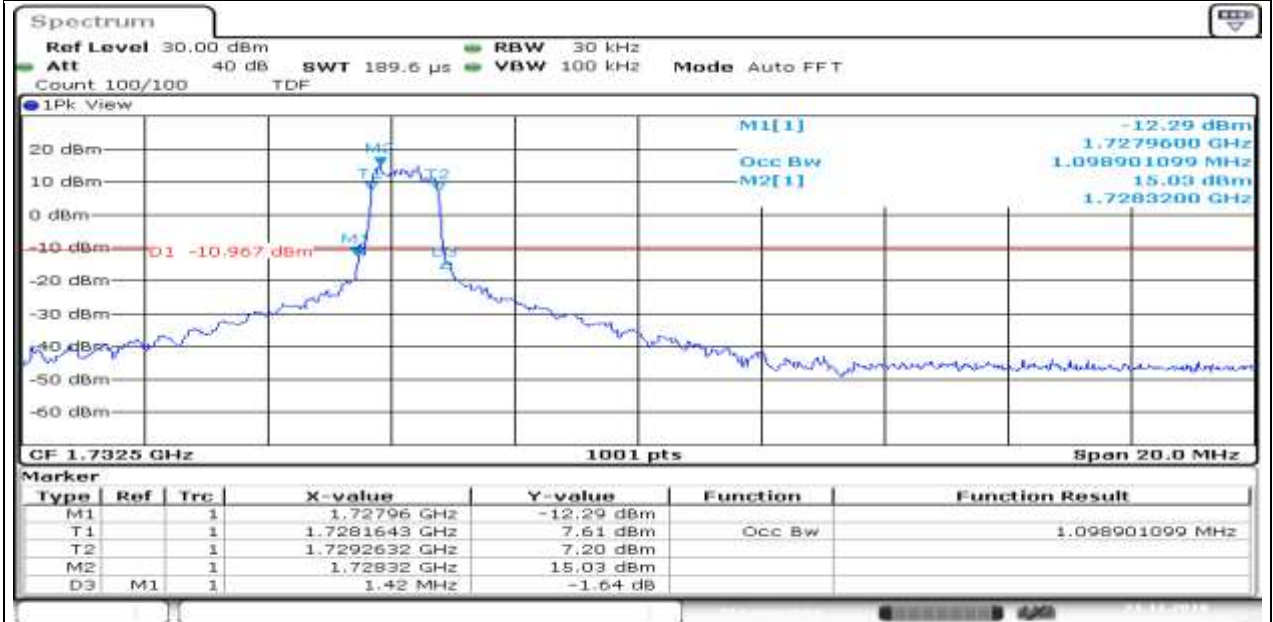


Band4_15MHz_16QAM_20175_6_0_Low_1.109_1.410_PASS



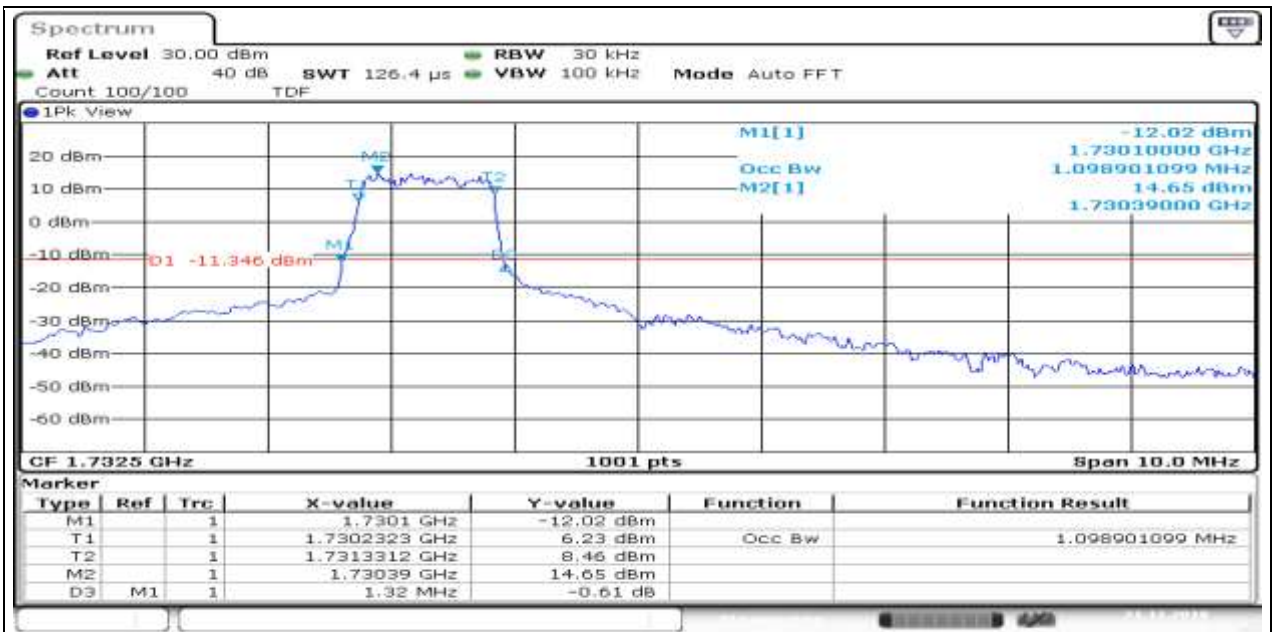
Date: 21.NOV.2019 12:29:34

Band4_10MHz_16QAM_20175_6_0_Low_1.099_1.420_PASS



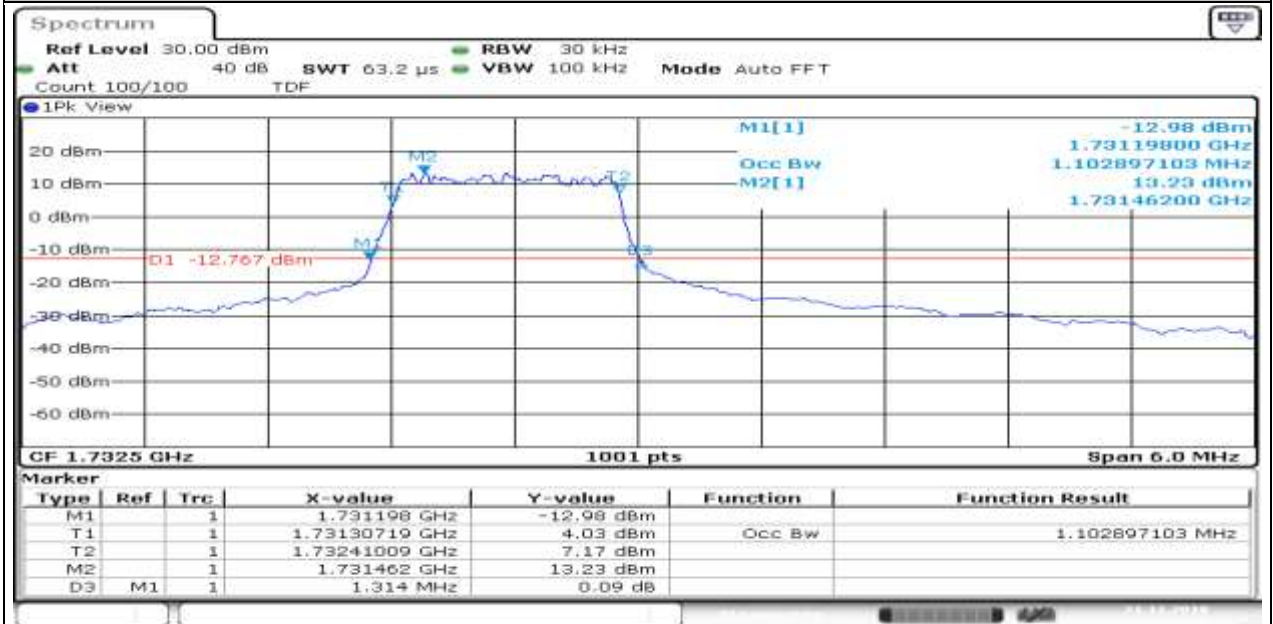
Date: 21.NOV.2019 12:27:27

Band4_5MHz_16QAM_20175_6_0_Low_1.099_1.320_PASS



Date: 21.NOV.2019 12:25:20

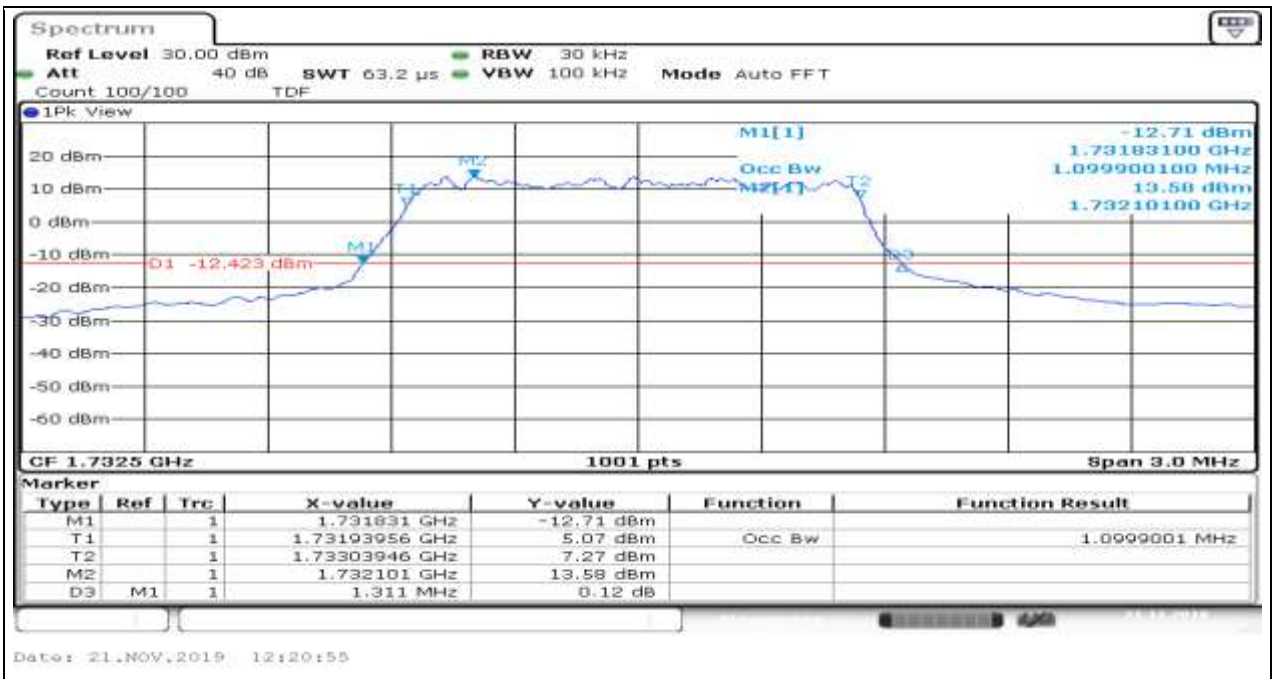
Band4_3MHz_16QAM_20175_6_0_Low_1.103_1.314_PASS



Date: 21.NOV.2019 12:23:12

Band4_1.4MHz_16QAM_20175_6_0_Low_1.1_1.311_PASS

Produkte
 Products

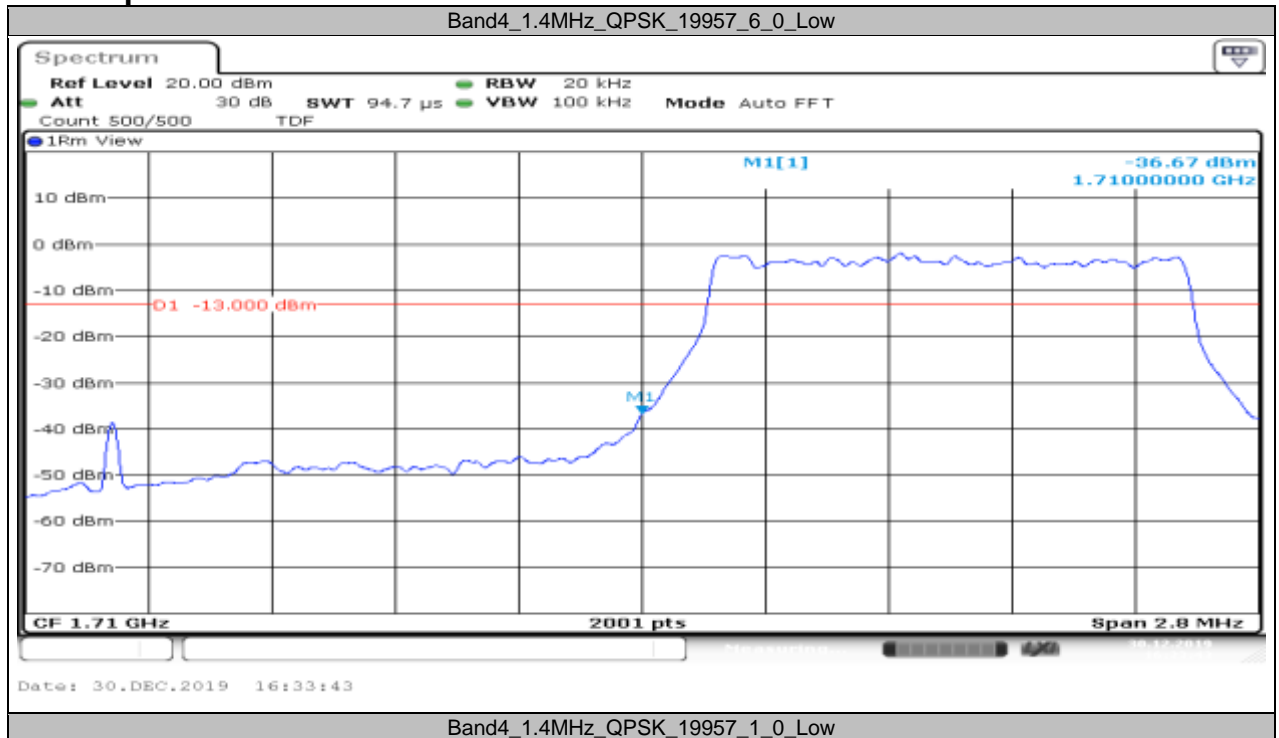


Appendix B.4: Band Edge for M1

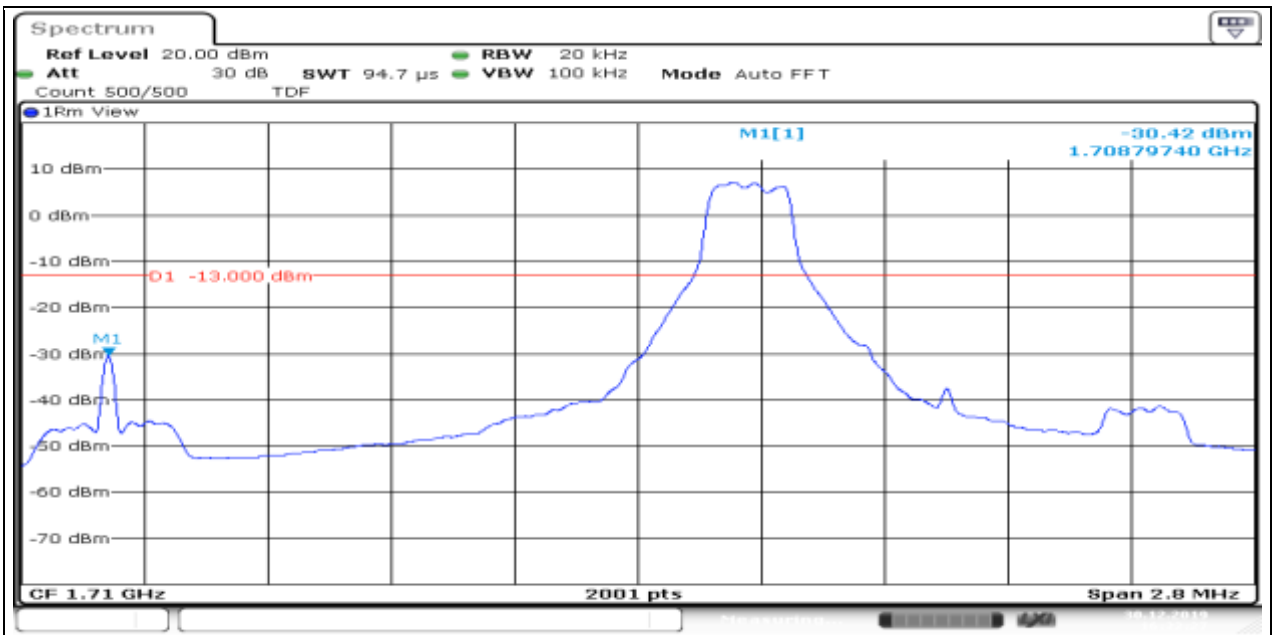
Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|--------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | -36.67 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | -30.42 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | -36.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | -44.80 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | -35.96 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | -32.80 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | -36.45 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | -46.14 | PASS |

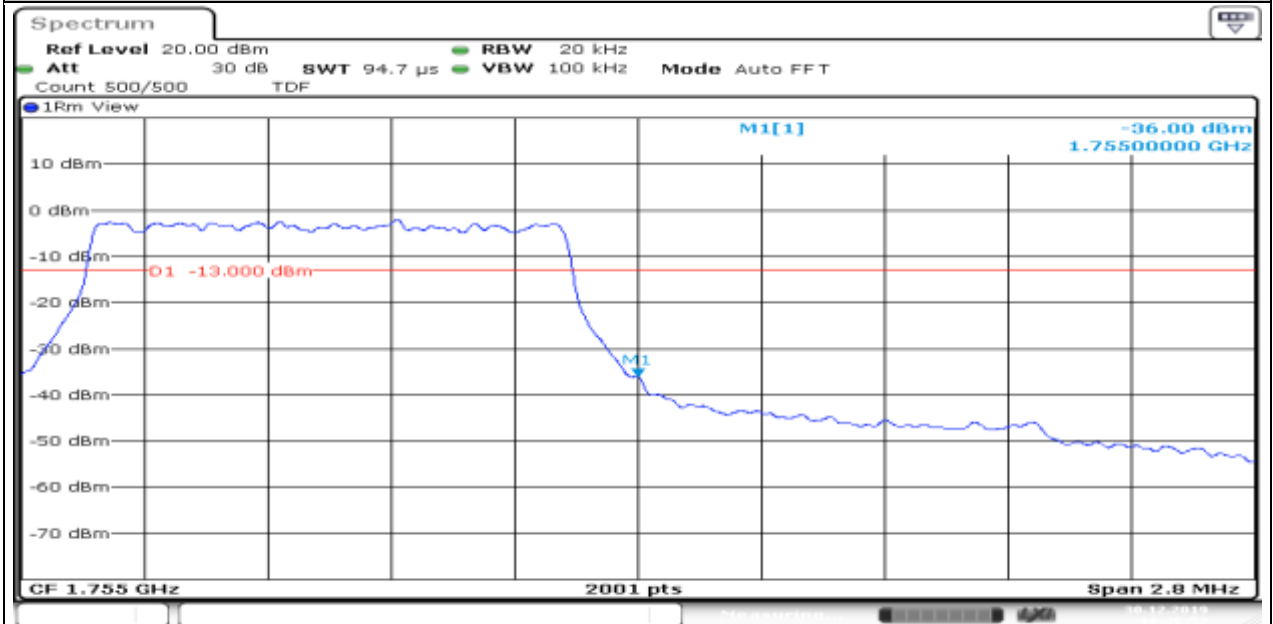
Test Graphs



Produkte
Products

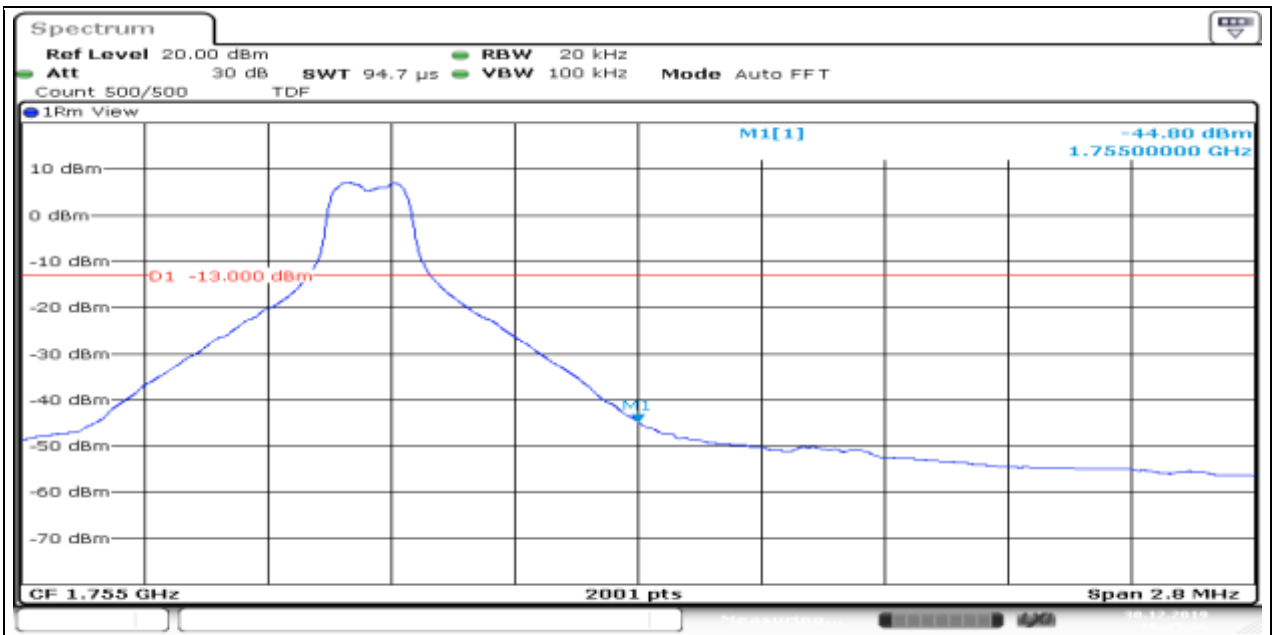


Band4_1.4MHz_QPSK_20393_6_0_Low



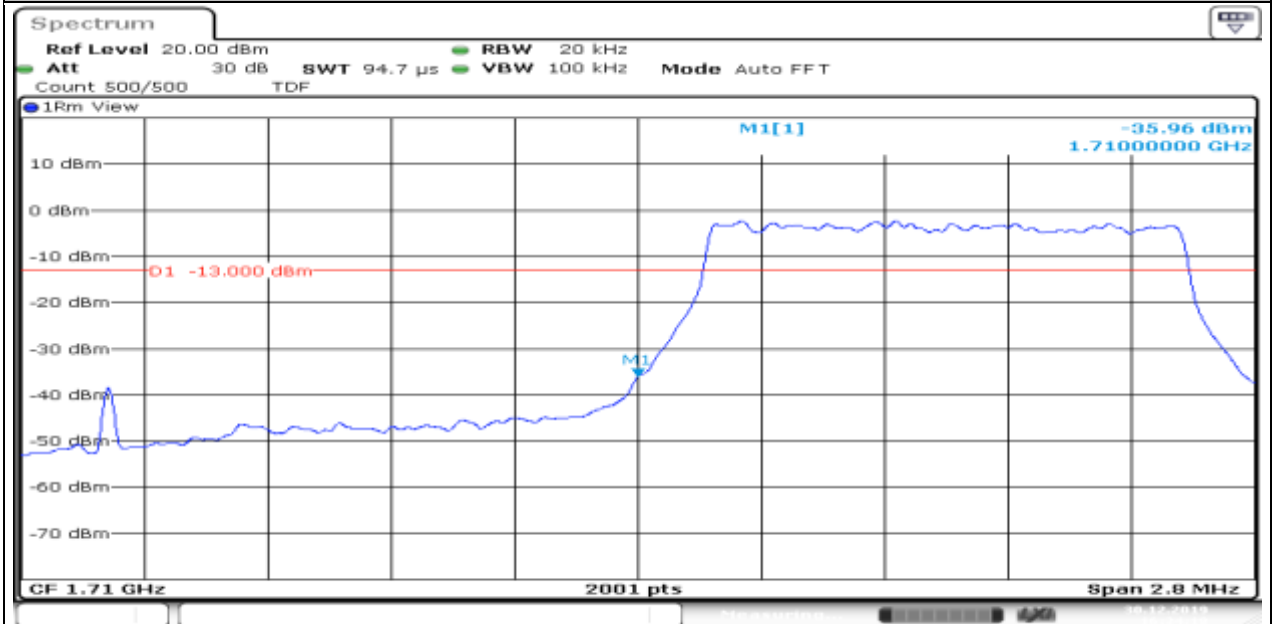
Band4_1.4MHz_QPSK_20393_1_5_Low

Produkte
Products



Date: 30.DEC.2019 16:35:36

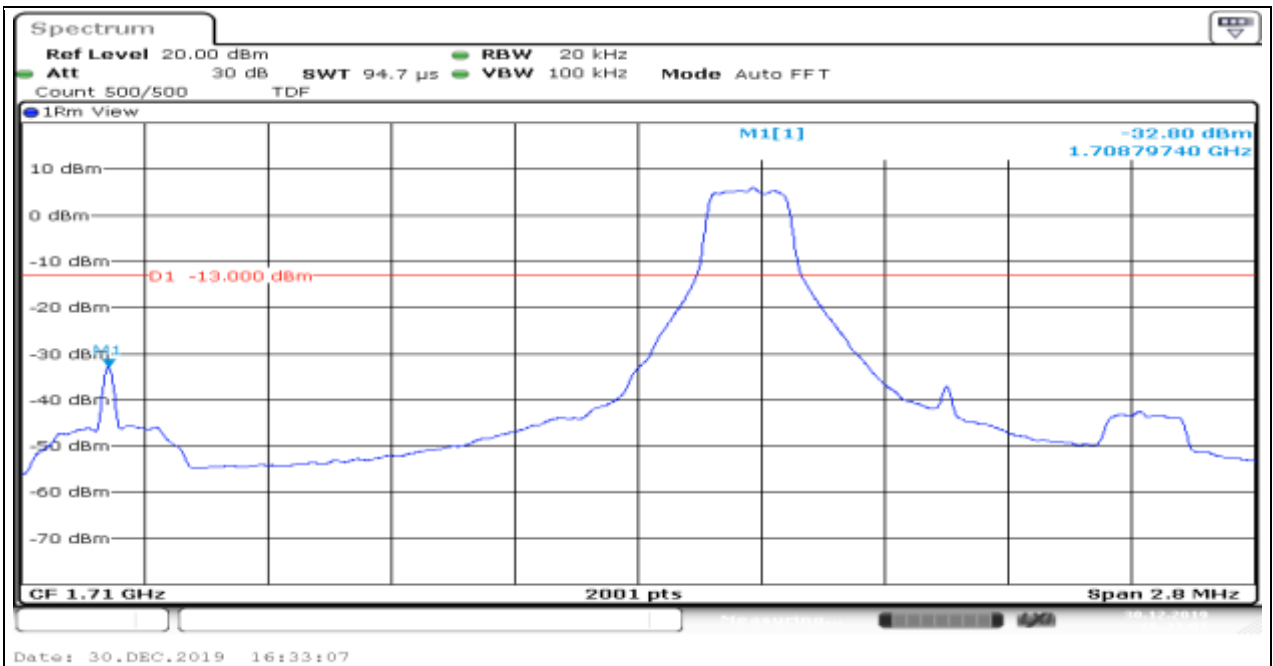
Band4_1.4MHz_16QAM_19957_6_0_Low



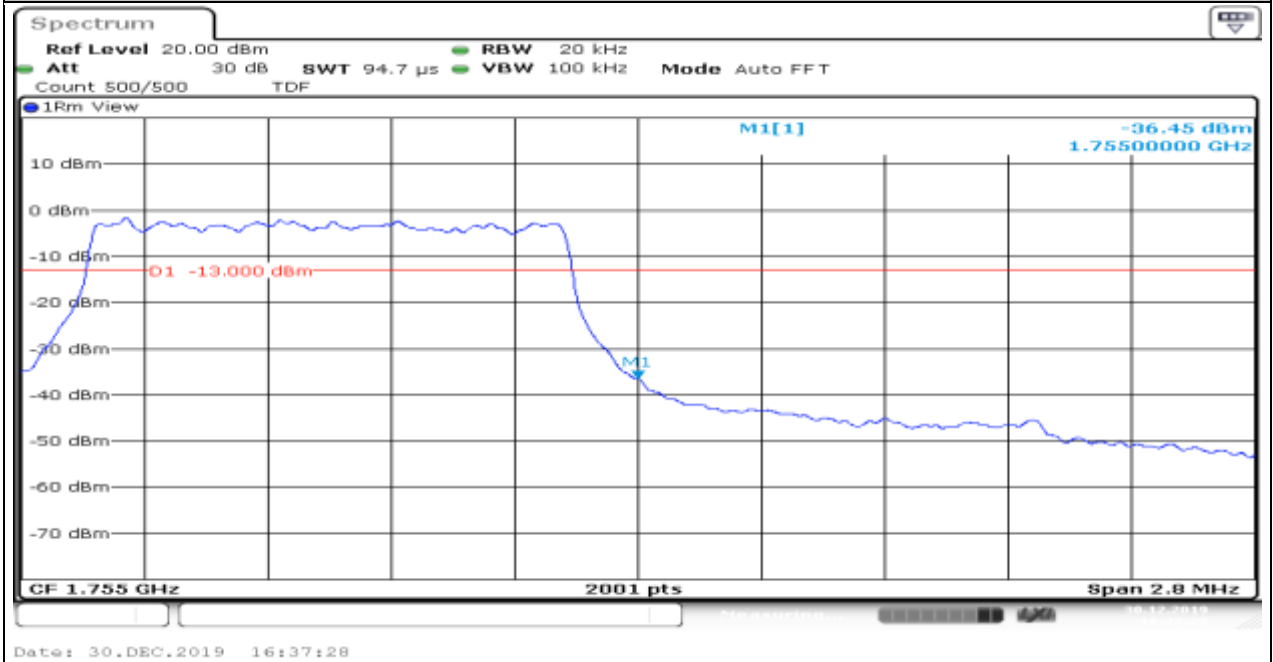
Date: 30.DEC.2019 16:34:19

Band4_1.4MHz_16QAM_19957_1_0_Low

Produkte
Products

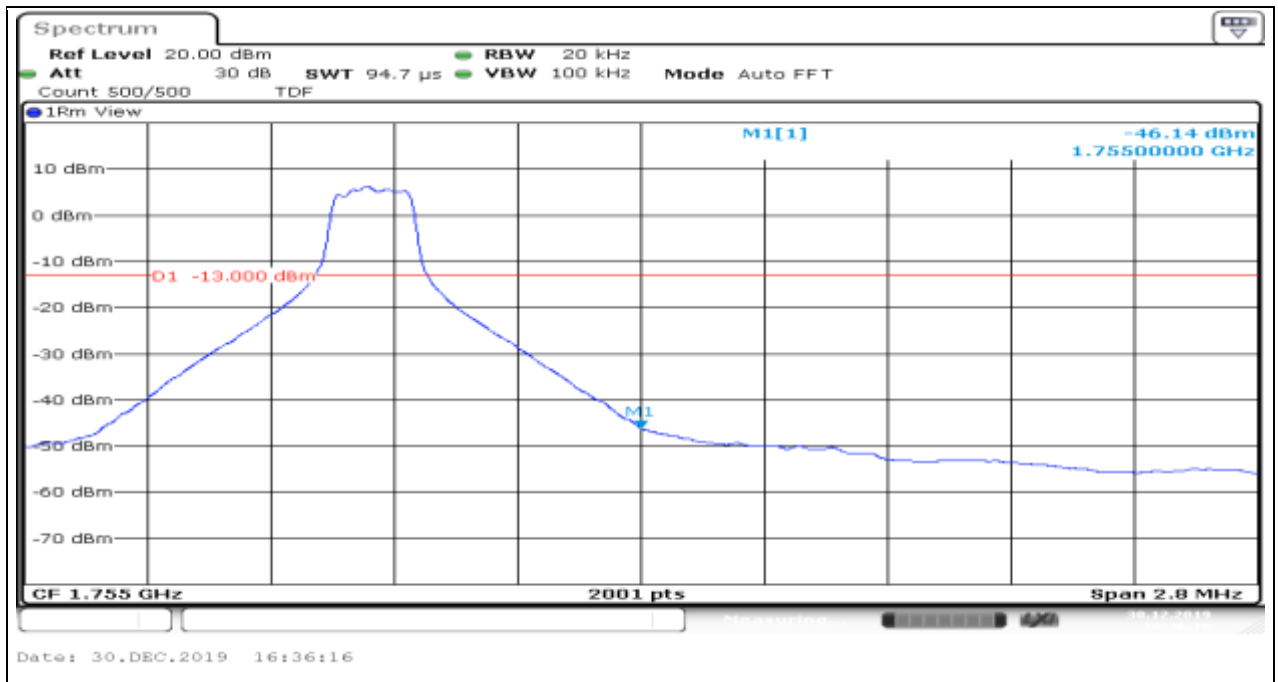


Band4_1.4MHz_16QAM_20393_6_0_Low



Band4_1.4MHz_16QAM_20393_1_5_Low

Produkte
Products

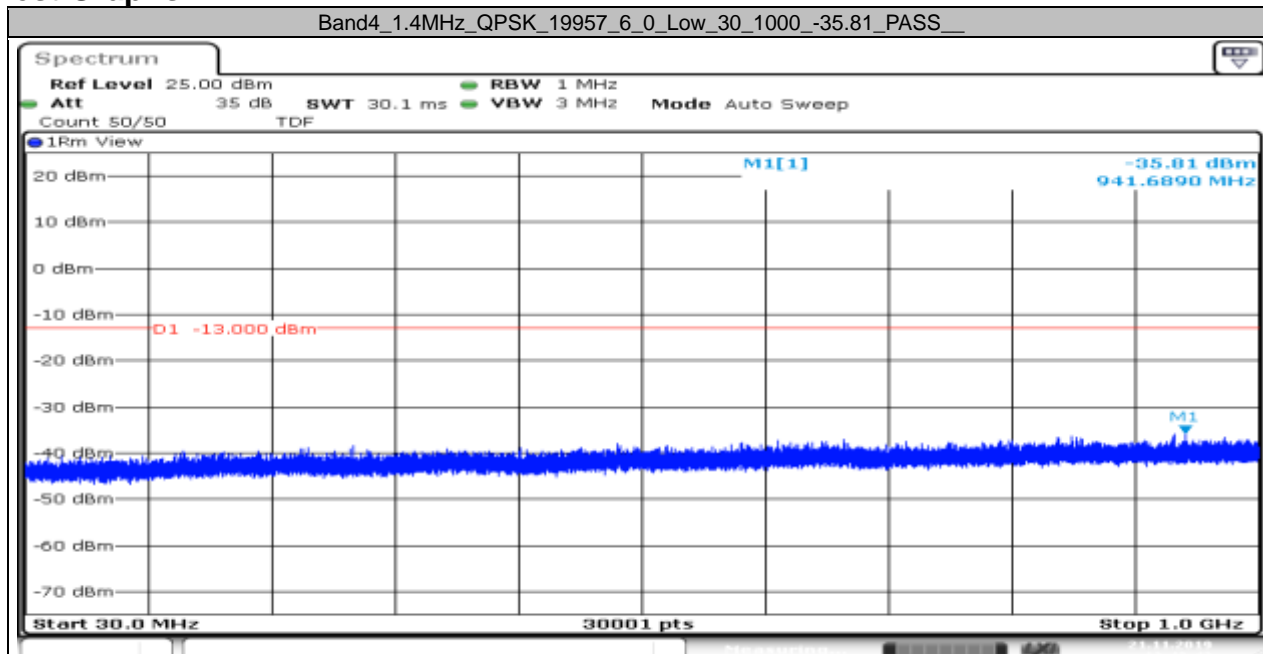


Appendix B.5: Conducted Spurious Emission for M1

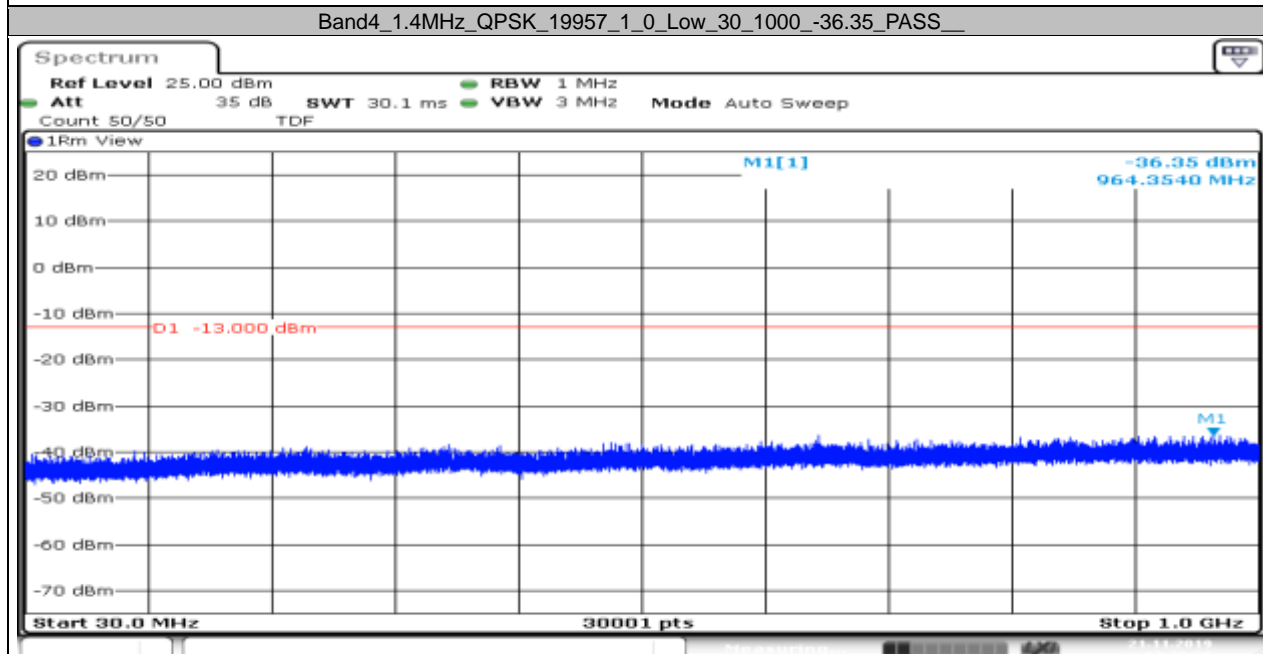
Test Result

| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|-------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | 30 | 1000 | -35.81 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | 30 | 1000 | -36.35 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | 12000 | 26500 | -41.79 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | 5000 | 12000 | -47.85 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6 | 0 | Low | 1000 | 5000 | -38.57 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | 12000 | 26500 | -41.91 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | 1000 | 5000 | -35.98 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1 | 0 | Low | 5000 | 12000 | -44.39 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 12000 | 26500 | -41.98 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | 1000 | 5000 | -34.42 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | 5000 | 12000 | -44.06 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | 12000 | 26500 | -41.69 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 1000 | 5000 | -38.35 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | 30 | 1000 | -36.36 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 5000 | 12000 | -47.77 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6 | 0 | Low | 30 | 1000 | -36.23 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | 12000 | 26500 | -41.87 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | 12000 | 26500 | -41.87 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | 5000 | 12000 | -47.74 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | 30 | 1000 | -35.32 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | 1000 | 5000 | -34.98 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | 5000 | 12000 | -44.05 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1 | 5 | Low | 30 | 1000 | -36.76 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6 | 0 | Low | 1000 | 5000 | -38.63 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | 1000 | 5000 | -38.36 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | 5000 | 12000 | -44.98 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | 12000 | 26500 | -41.86 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | 12000 | 26500 | -41.81 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | 5000 | 12000 | -47.65 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | 30 | 1000 | -36.55 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1 | 0 | Low | 30 | 1000 | -35.81 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6 | 0 | Low | 1000 | 5000 | -38.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 12000 | 26500 | -41.76 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | 1000 | 5000 | -36.46 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | 12000 | 26500 | -41.63 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 30 | 1000 | -35.91 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 1000 | 5000 | -38.36 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6 | 0 | Low | 5000 | 12000 | -47.94 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | 30 | 1000 | -36.04 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | 5000 | 12000 | -45.7 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | 5000 | 12000 | -47.79 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | 1000 | 5000 | -38.43 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | 30 | 1000 | -36.15 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | 12000 | 26500 | -41.54 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | 5000 | 12000 | -44.96 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | 30 | 1000 | -35.95 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6 | 0 | Low | 12000 | 26500 | -41.73 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1 | 5 | Low | 1000 | 5000 | -36.16 | PASS |

Test Graphs



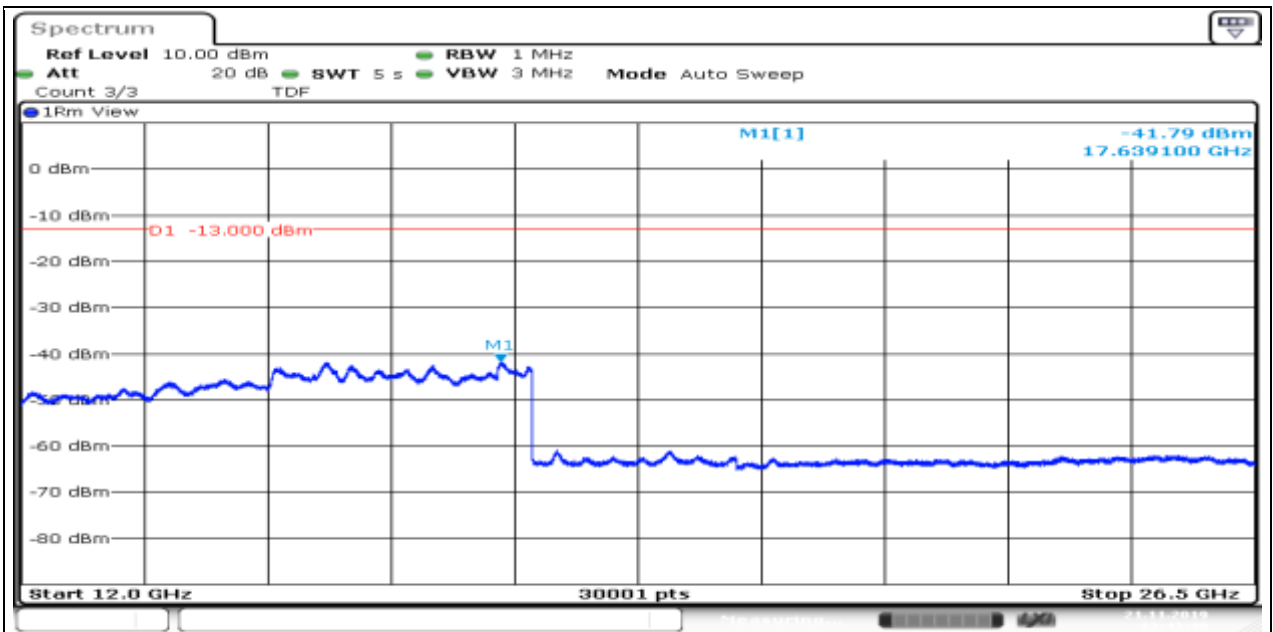
Date: 21.NOV.2019 13:42:43



Date: 21.NOV.2019 13:39:39

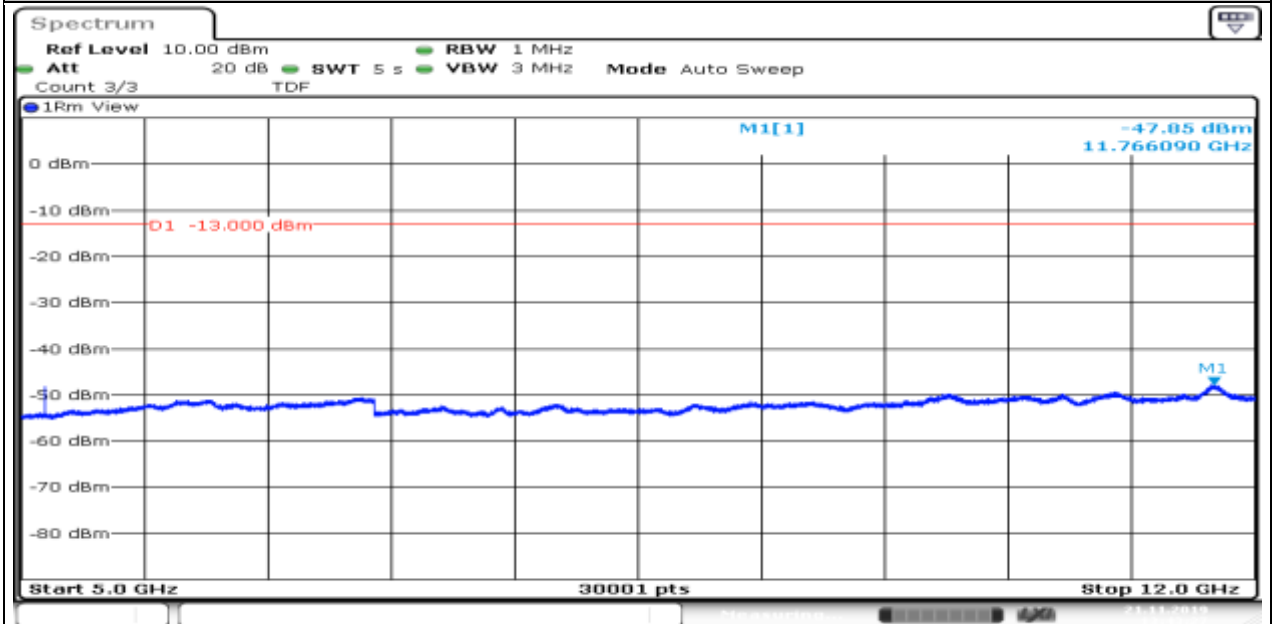
Band4_1.4MHz_QPSK_19957_6_0_Low_12000_26500_-41.79_PASS_

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Date: 21.NOV.2019 13:43:49

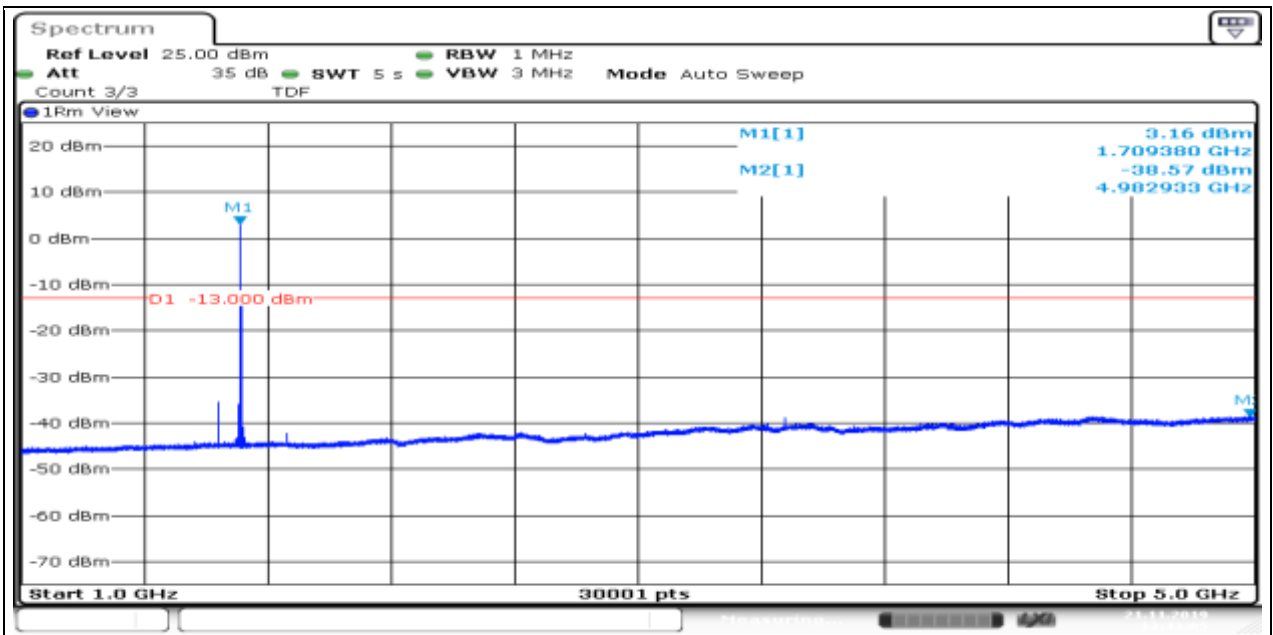
Band4_1.4MHz_QPSK_19957_6_0_Low_5000_12000_-47.85_PASS_



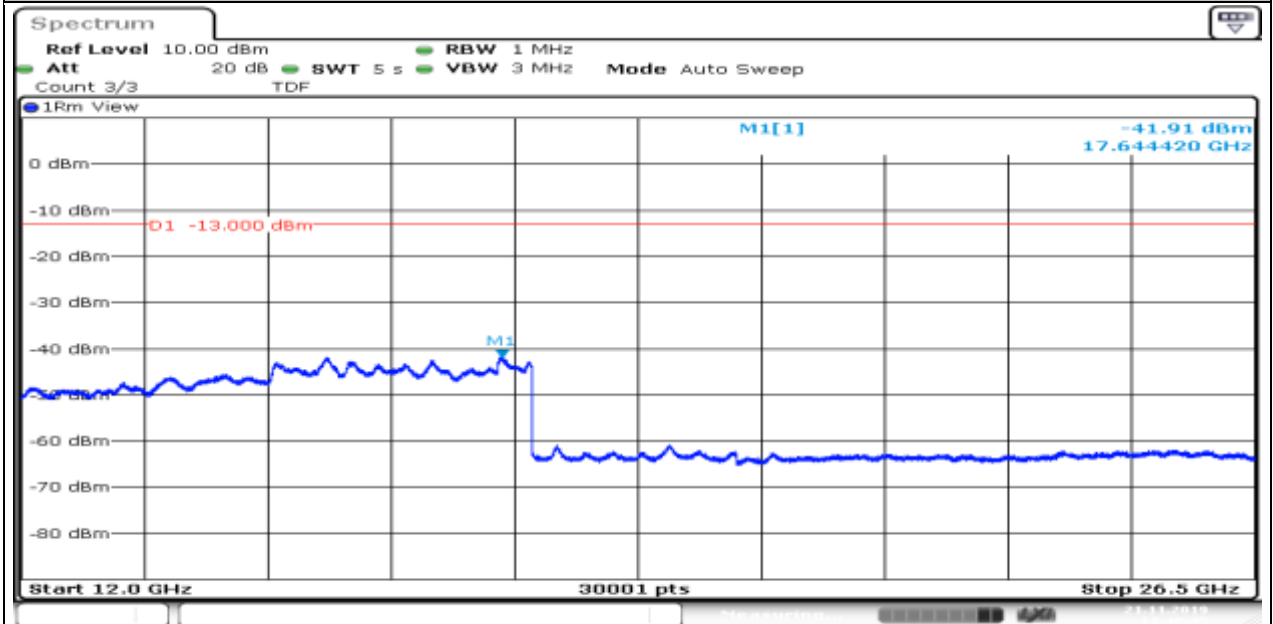
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Band4_1.4MHz_QPSK_19957_6_0_Low_1000_5000_-38.57_PASS_

Produkte
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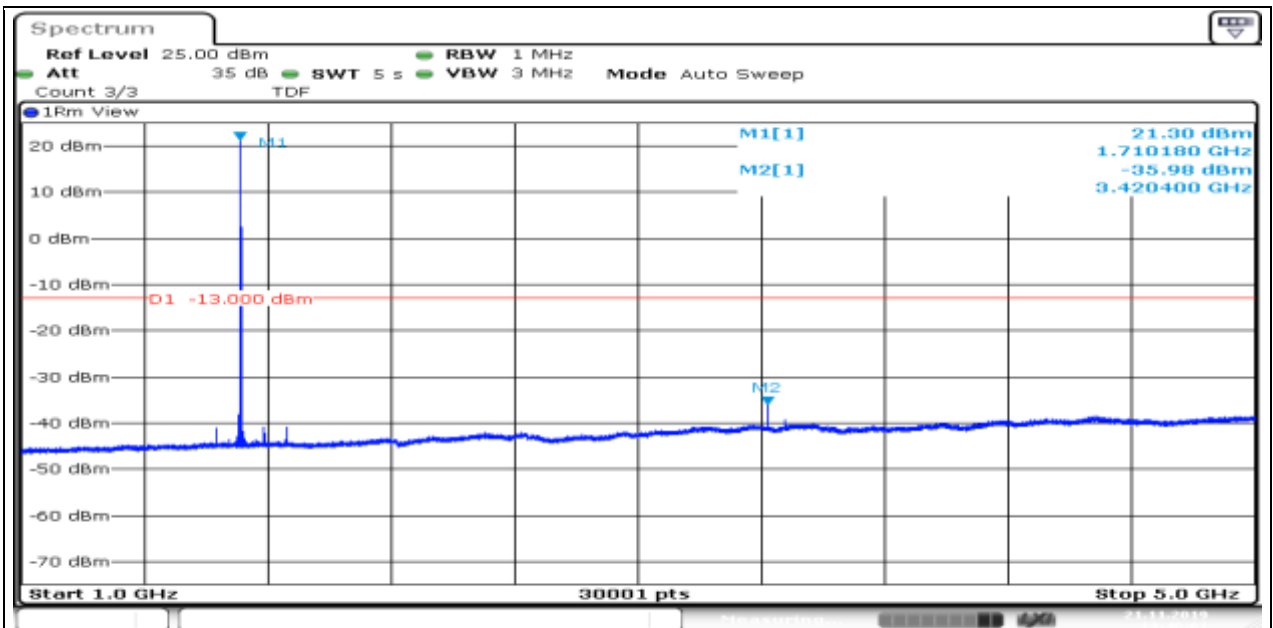


Band4_1.4MHz_QPSK_19957_1_0_Low_12000_26500_-41.91_PASS

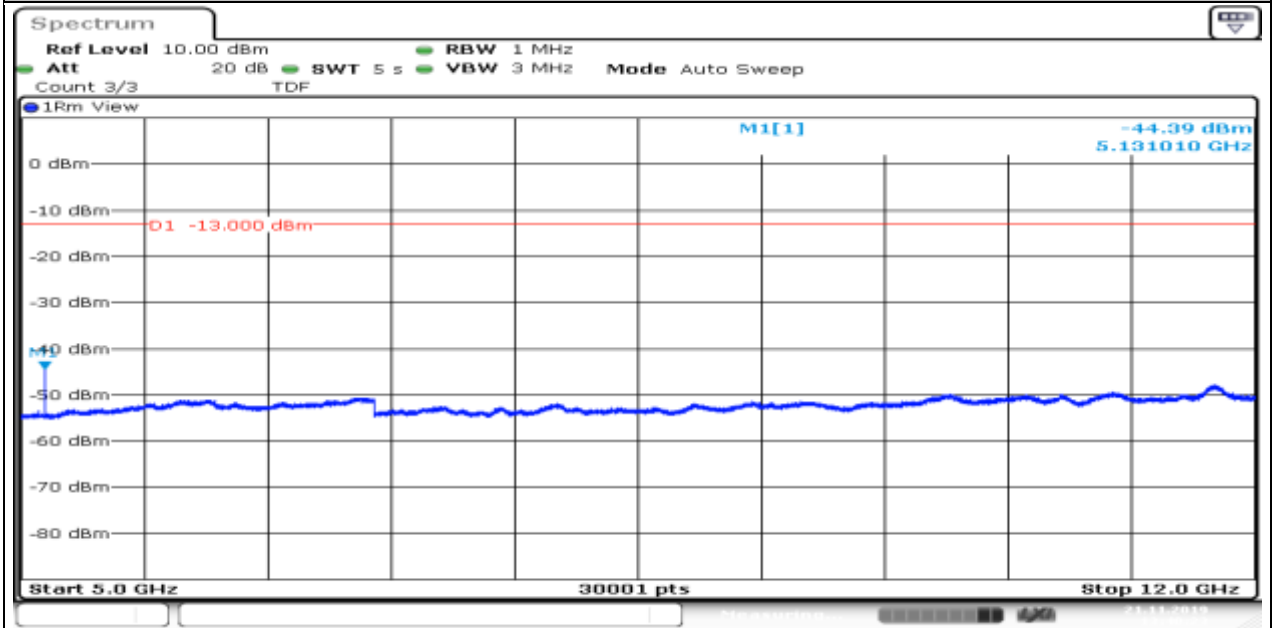


Band4_1.4MHz_QPSK_19957_1_0_Low_1000_5000_-35.98_PASS

Produkte
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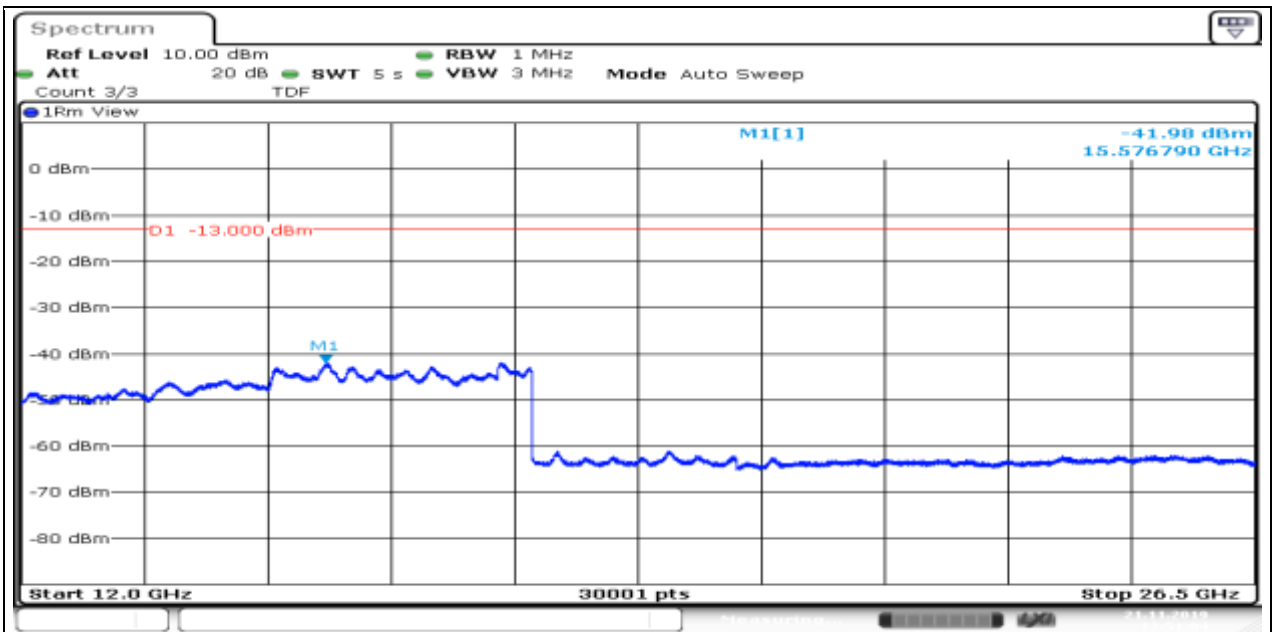


Band4_1.4MHz_QPSK_19957_1_0_Low_5000_12000_-44.39_PASS_



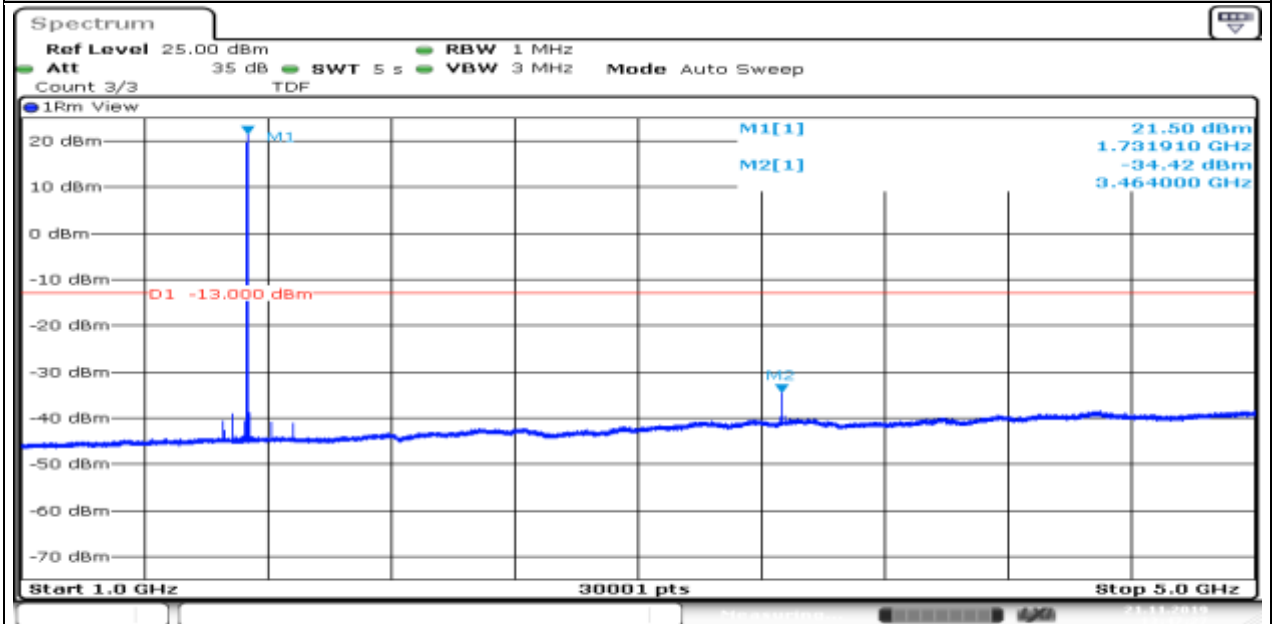
Band4_1.4MHz_QPSK_20175_6_0_Low_12000_26500_-41.98_PASS_

Produkte
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Date: 21.NOV.2019 13:51:05

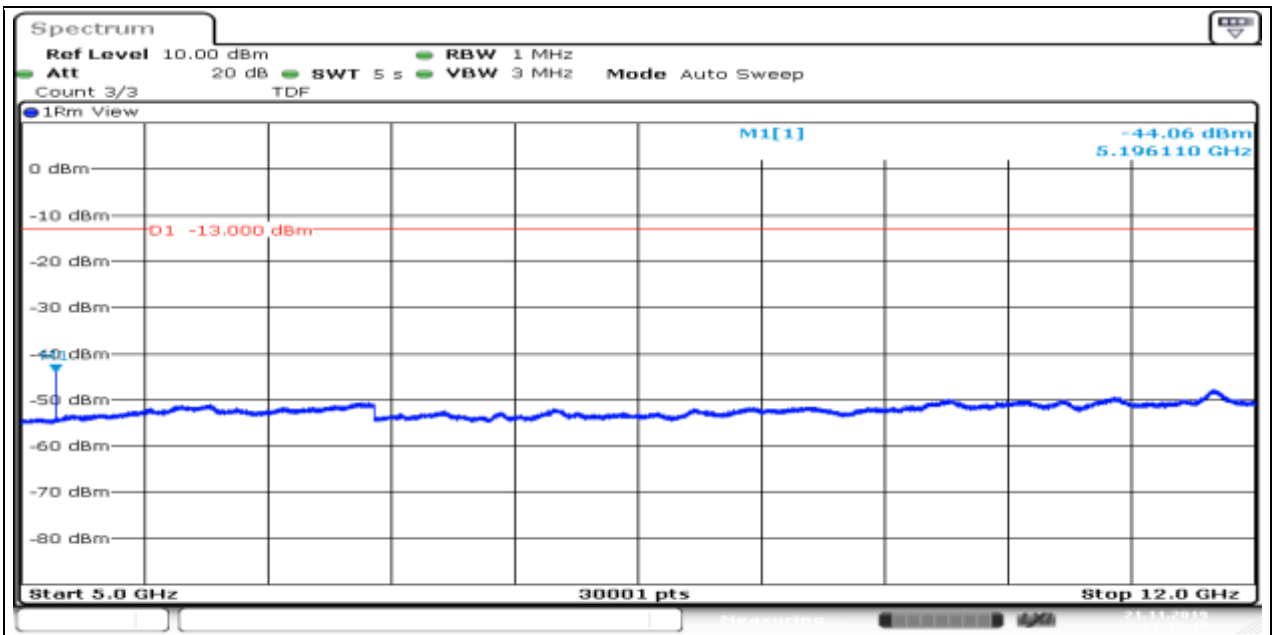
Band4_1.4MHz_QPSK_20175_1_0_Low_1000_5000_-34.42_PASS_



Date: 21.NOV.2019 13:47:27

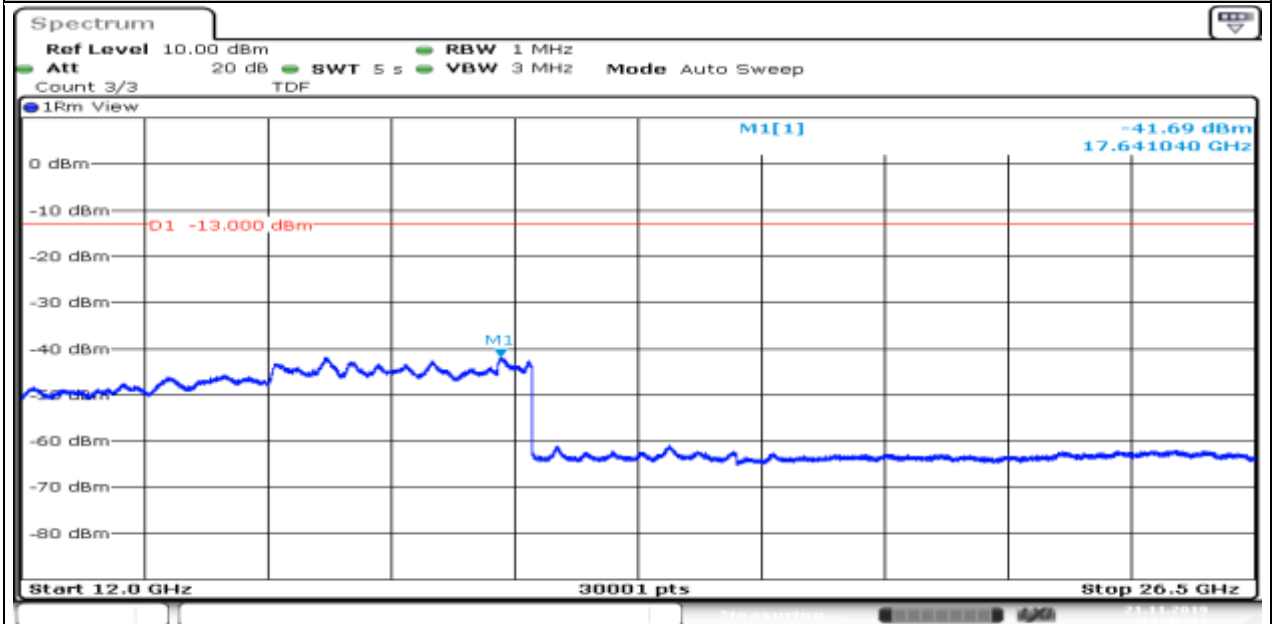
Band4_1.4MHz_QPSK_20175_1_0_Low_5000_12000_-44.06_PASS_

Produkte
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Date: 21.NOV.2019 13:47:49

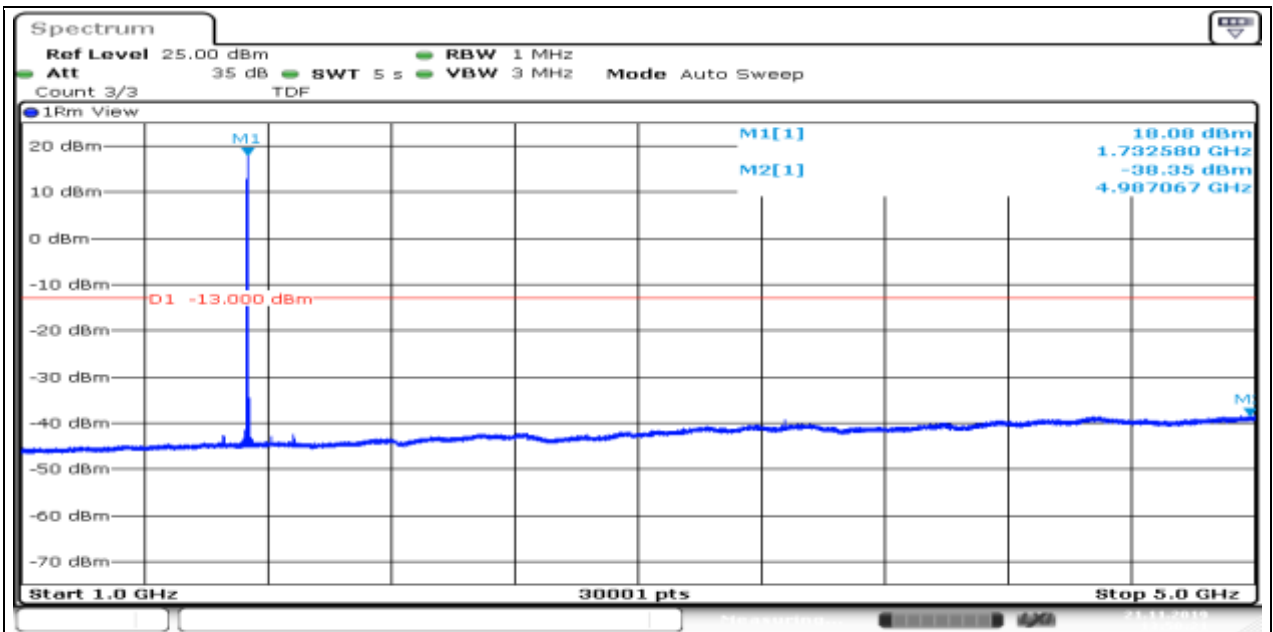
Band4_1.4MHz_QPSK_20175_1_0_Low_12000_26500_-41.69_PASS_



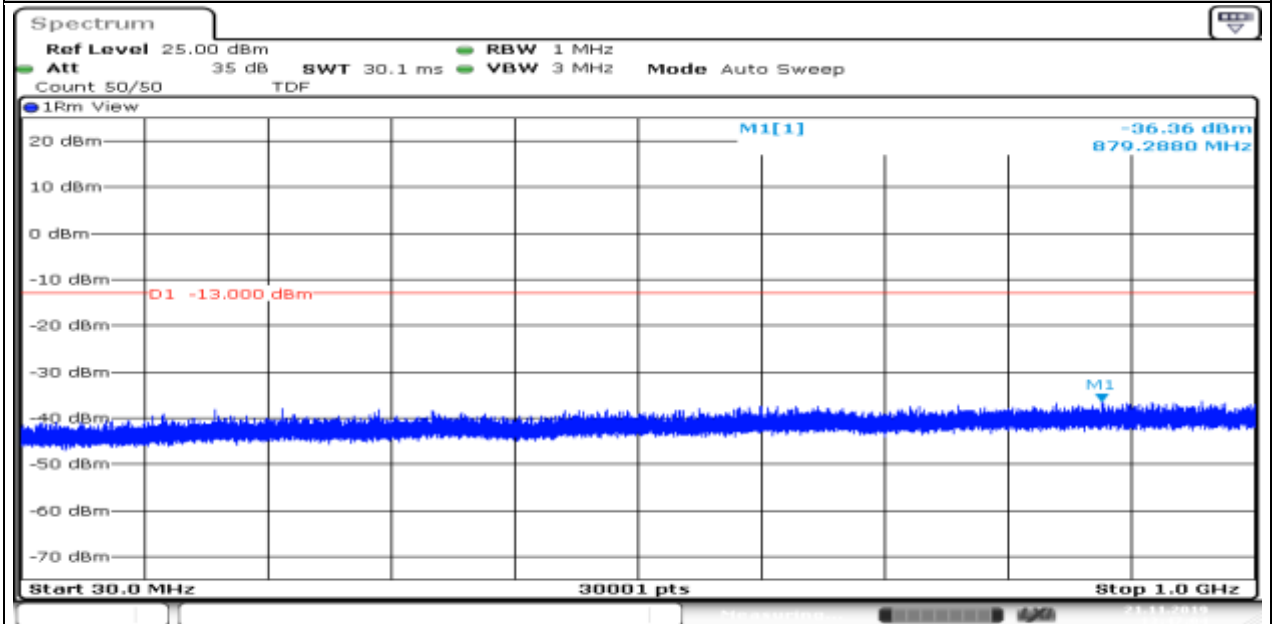
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Band4_1.4MHz_QPSK_20175_6_0_Low_1000_5000_-38.35_PASS_

Produkte
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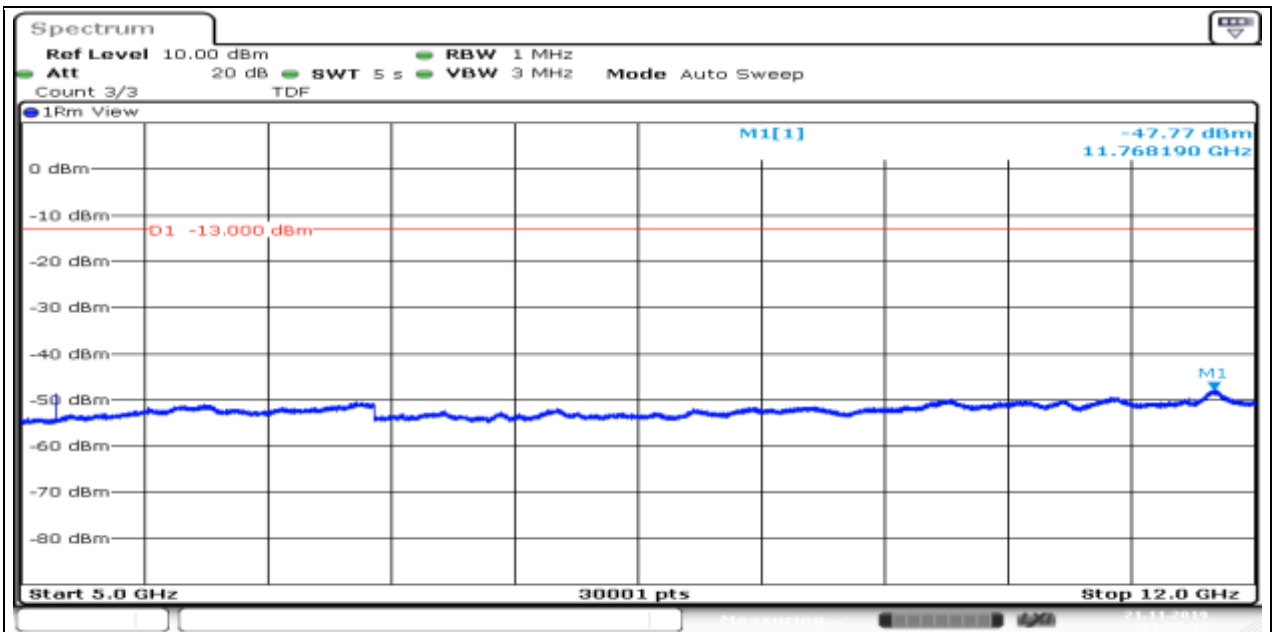


Band4_1.4MHz_QPSK_20175_1_0_Low_30_1000_-36.36_PASS_

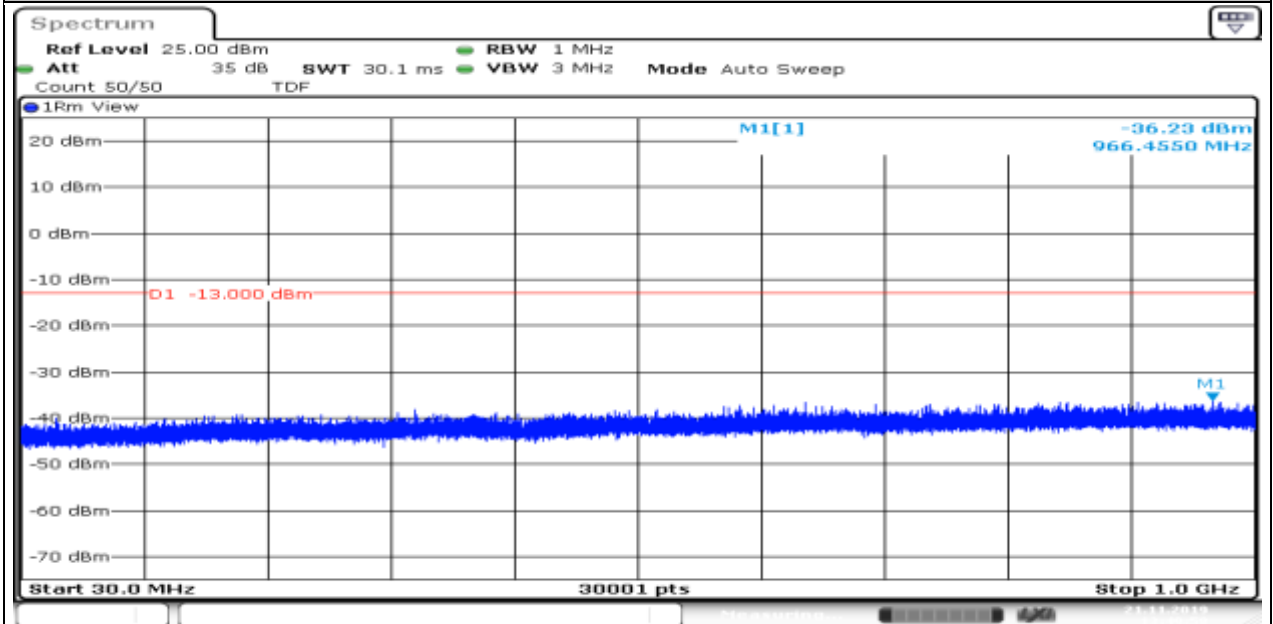


Band4_1.4MHz_QPSK_20175_6_0_Low_5000_12000_-47.77_PASS_

Produkte
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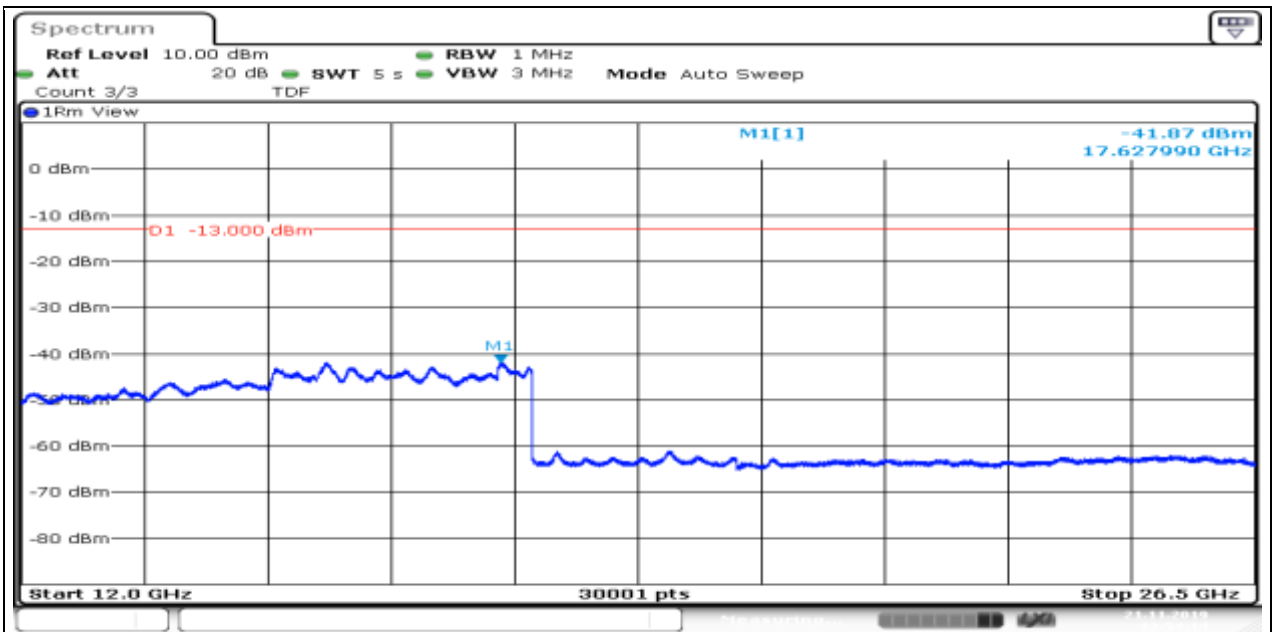


Band4_1.4MHz_QPSK_20175_6_0_Low_30_1000_-36.23_PASS_

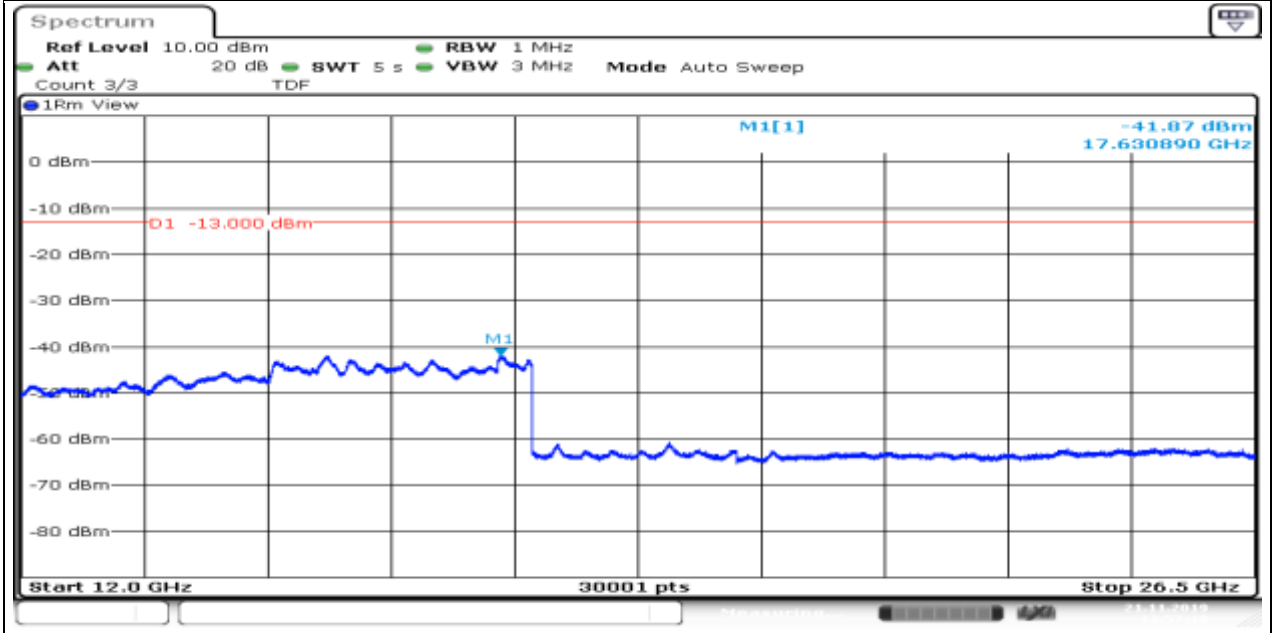


Band4_1.4MHz_QPSK_20393_1_5_Low_12000_26500_-41.87_PASS_

Produkte
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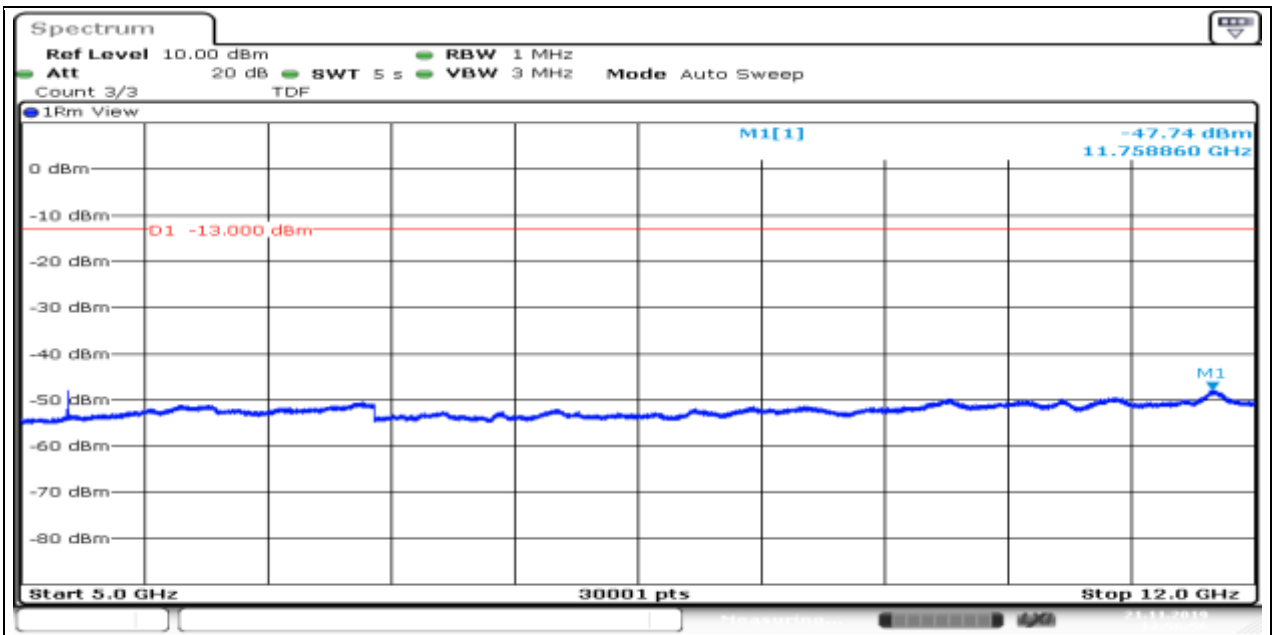


Band4_1.4MHz_QPSK_20393_6_0_Low_12000_26500_-41.87_PASS



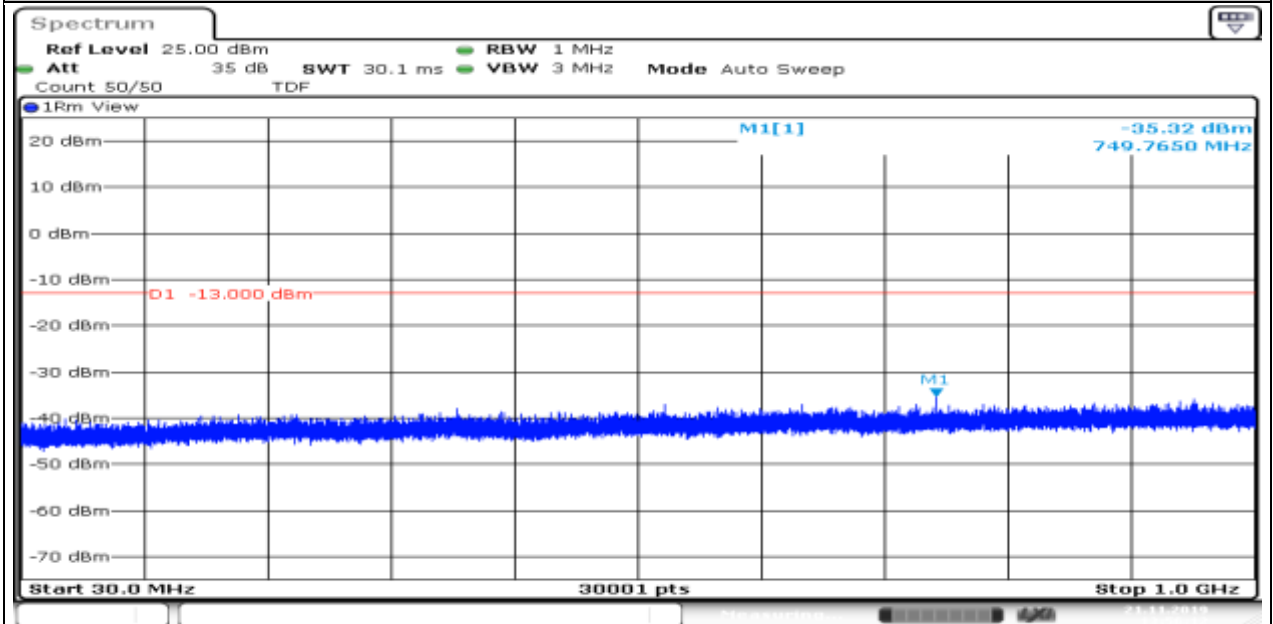
Band4_1.4MHz_QPSK_20393_6_0_Low_5000_12000_-47.74_PASS

Produkte
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Date: 21.NOV.2019 13:56:57

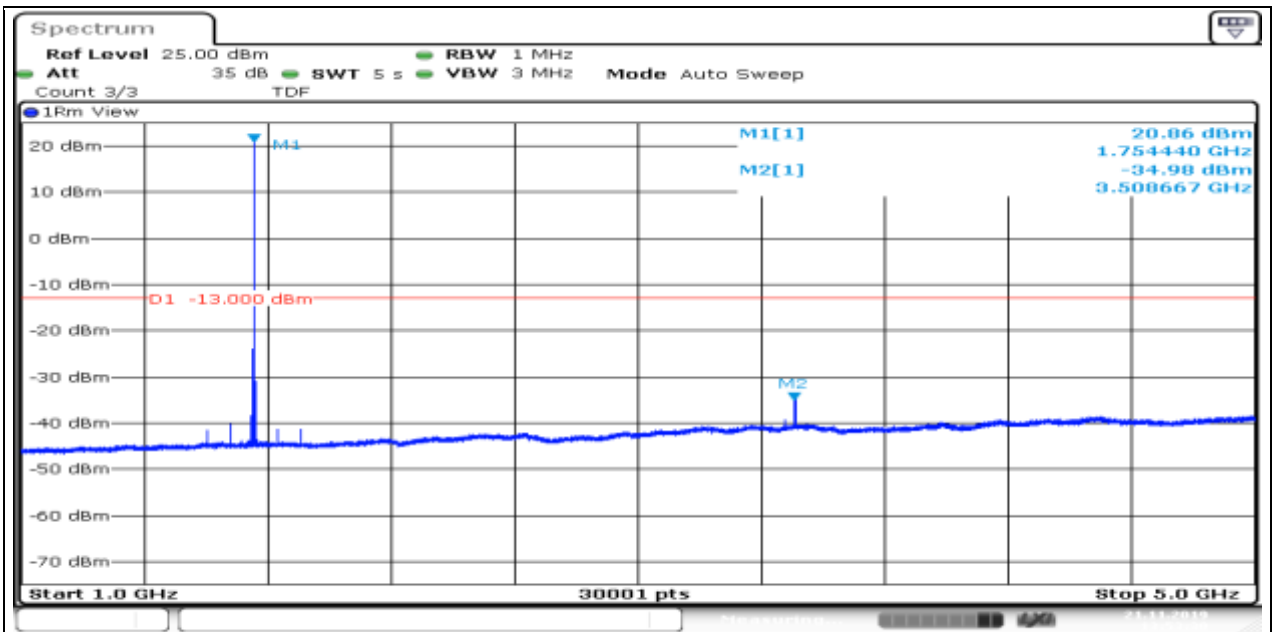
Band4_1.4MHz_QPSK_20393_6_0_Low_30_1000_-35.32_PASS_



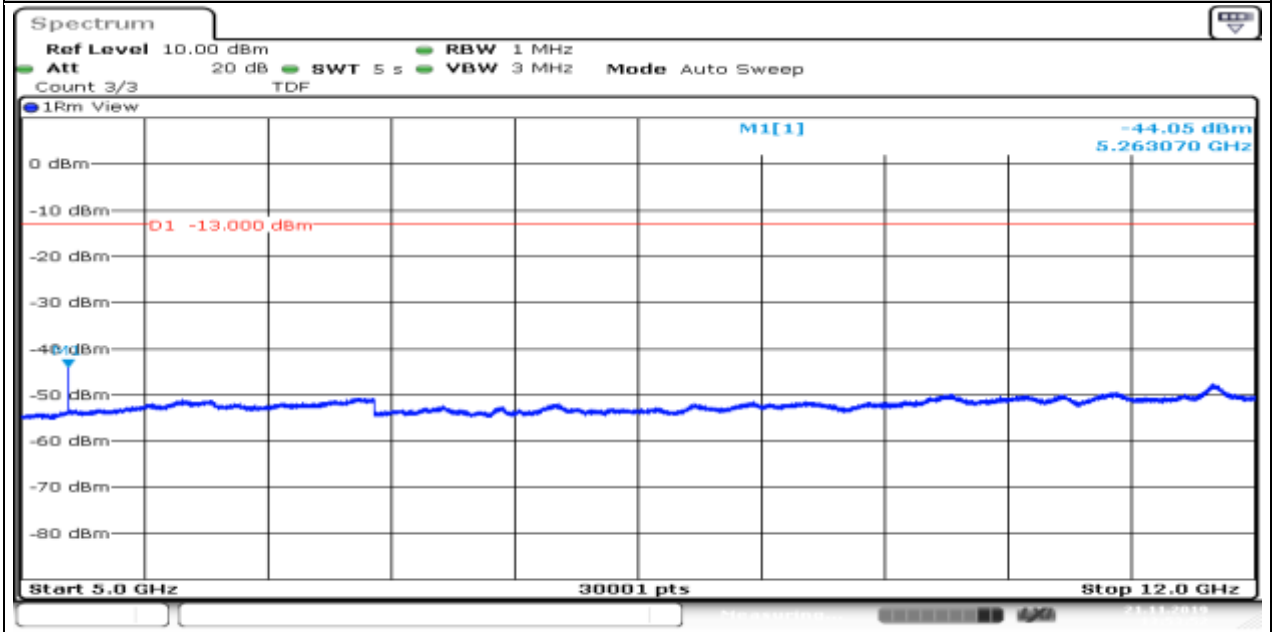
Date: 21.NOV.2019 13:56:12

Band4_1.4MHz_QPSK_20393_1_5_Low_1000_5000_-34.98_PASS_

Produkte
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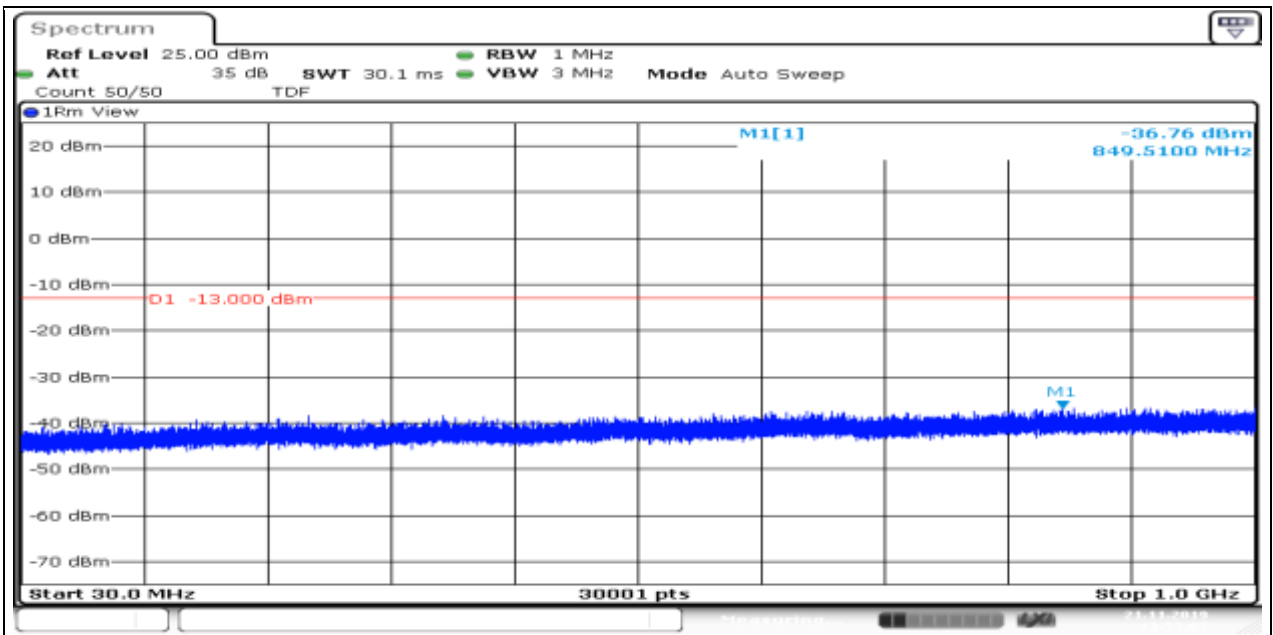


Band4_1.4MHz_QPSK_20393_1_5_Low_5000_12000_-44.05_PASS_

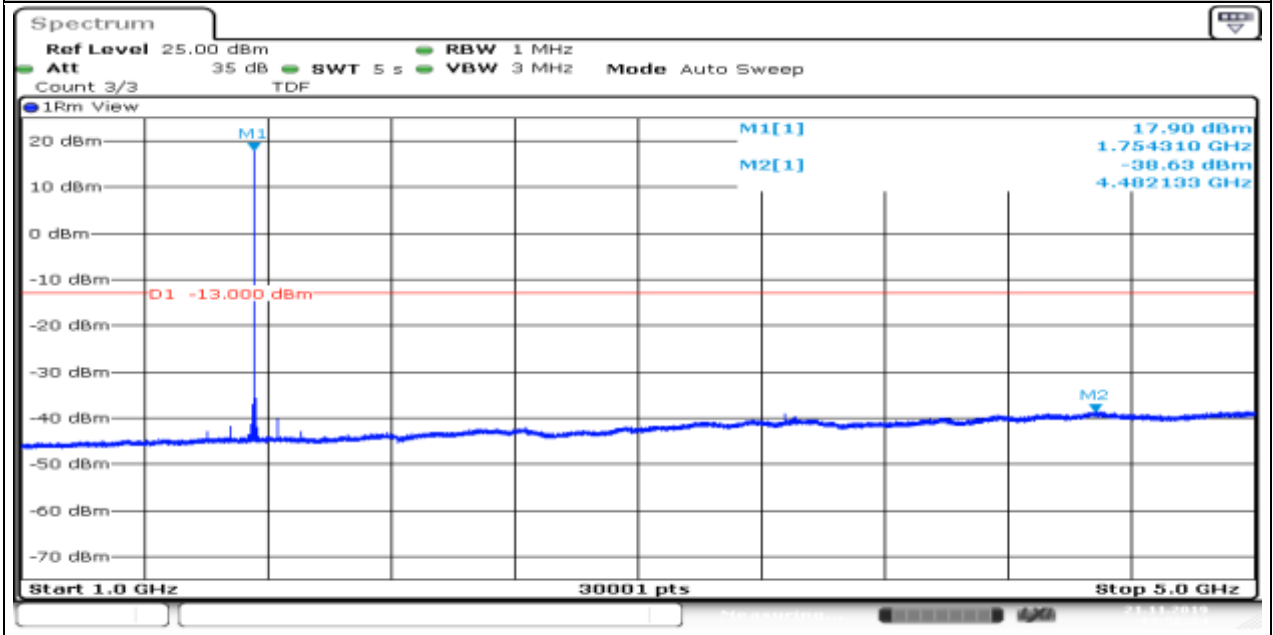


Band4_1.4MHz_QPSK_20393_1_5_Low_30_1000_-36.76_PASS_

Produkte
Products

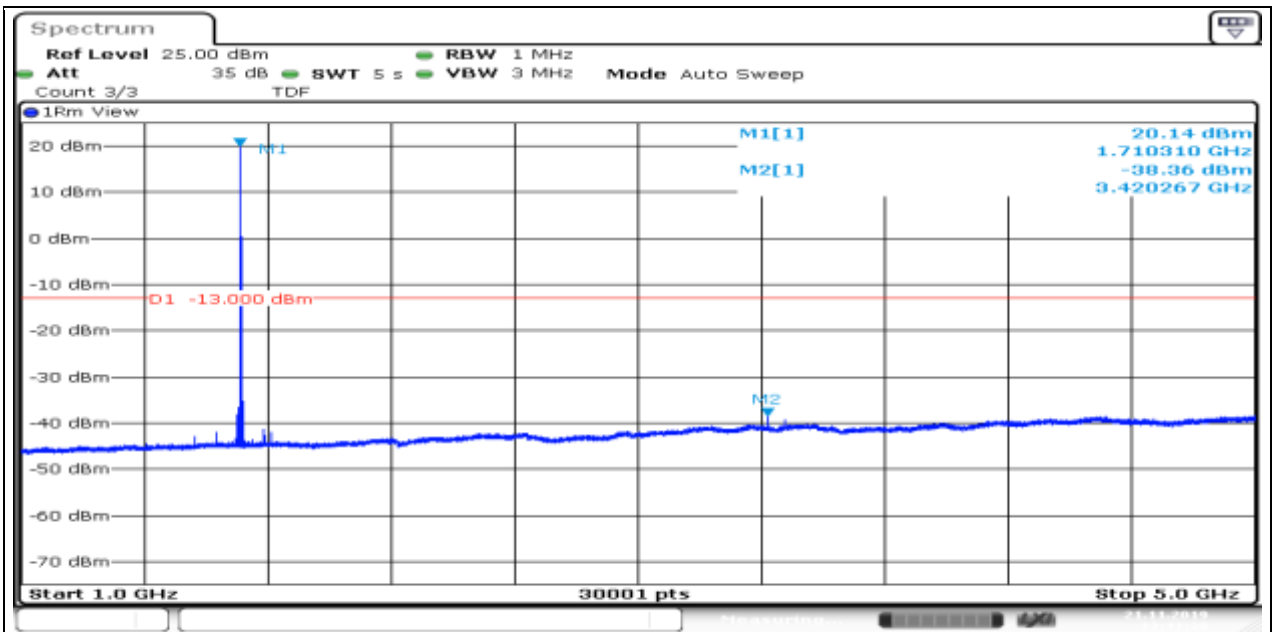


Band4_1.4MHz_QPSK_20393_6_0_Low_1000_5000_-38.63_PASS_

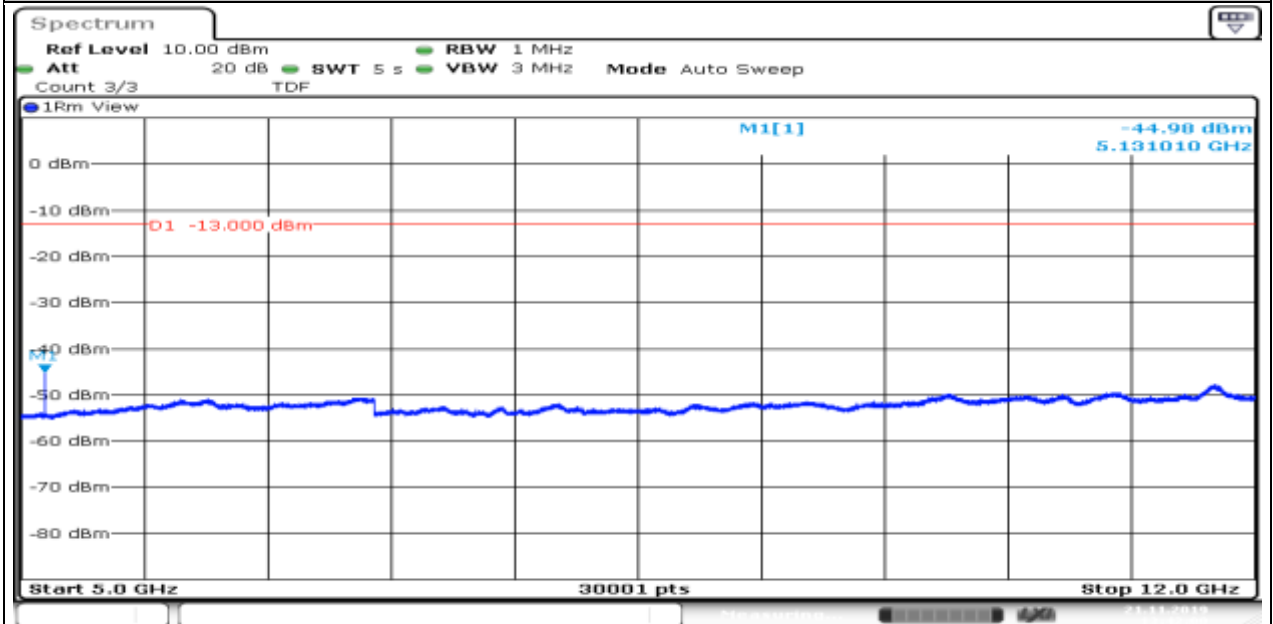


Band4_1.4MHz_16QAM_19957_1_0_Low_1000_5000_-38.36_PASS_

Produkte
Products

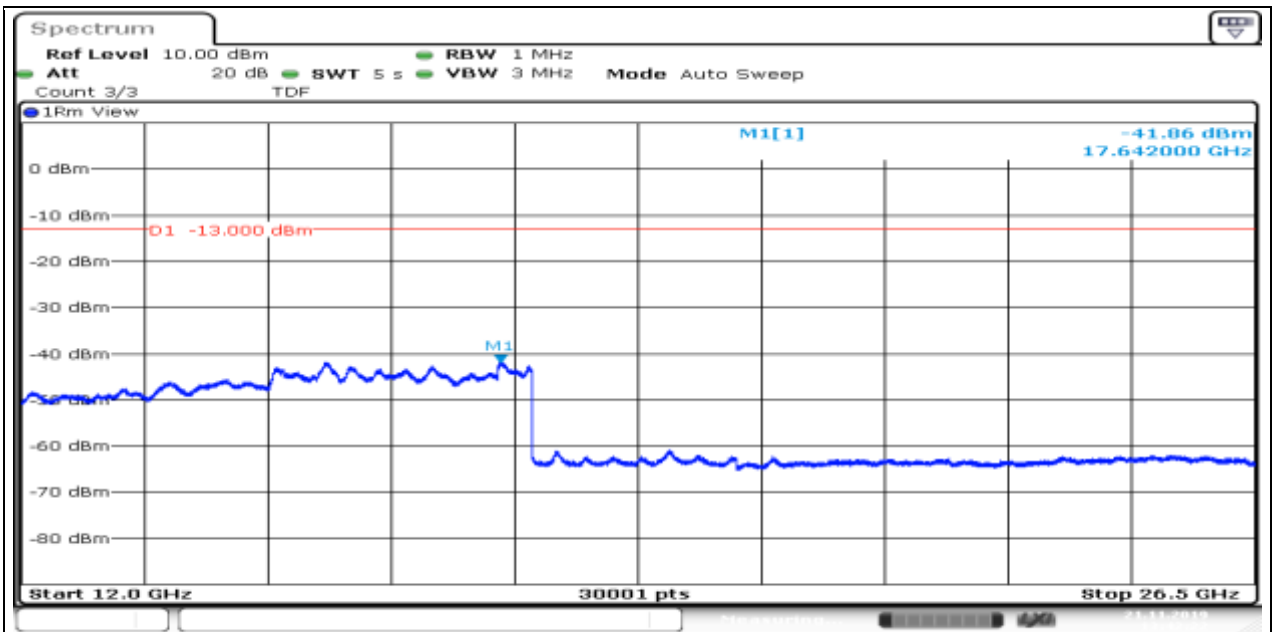


Band4_1.4MHz_16QAM_19957_1_0_Low_5000_12000_-44.98_PASS_

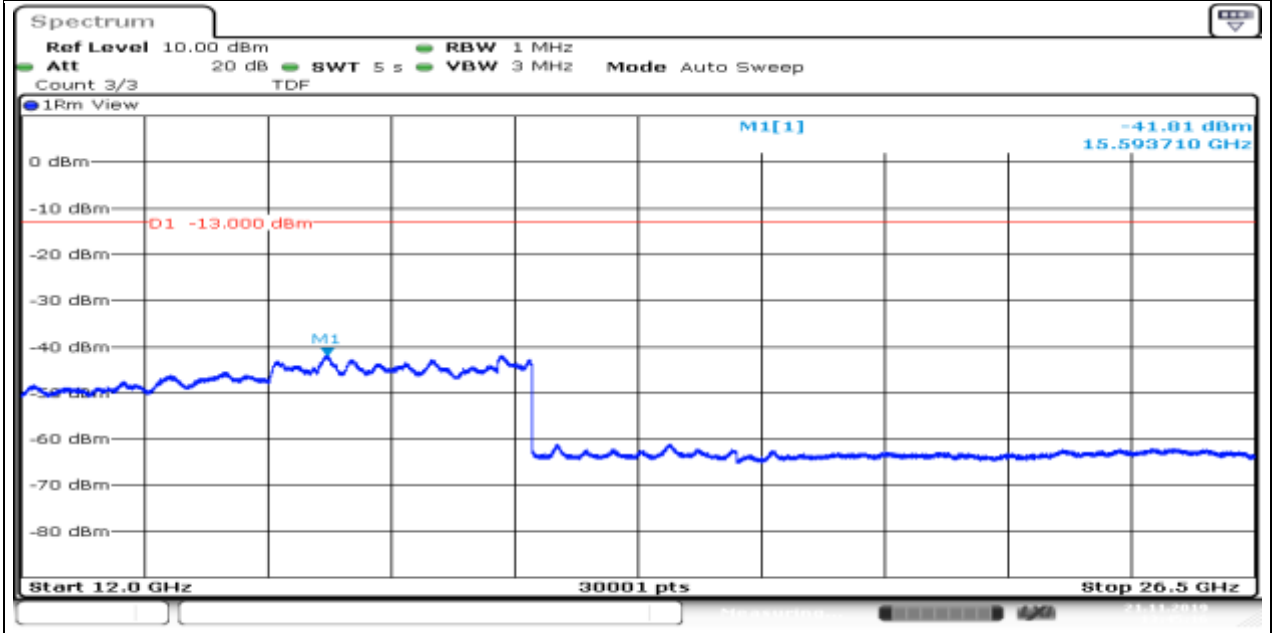


Band4_1.4MHz_16QAM_19957_1_0_Low_12000_26500_-41.86_PASS_

Produkte
Products

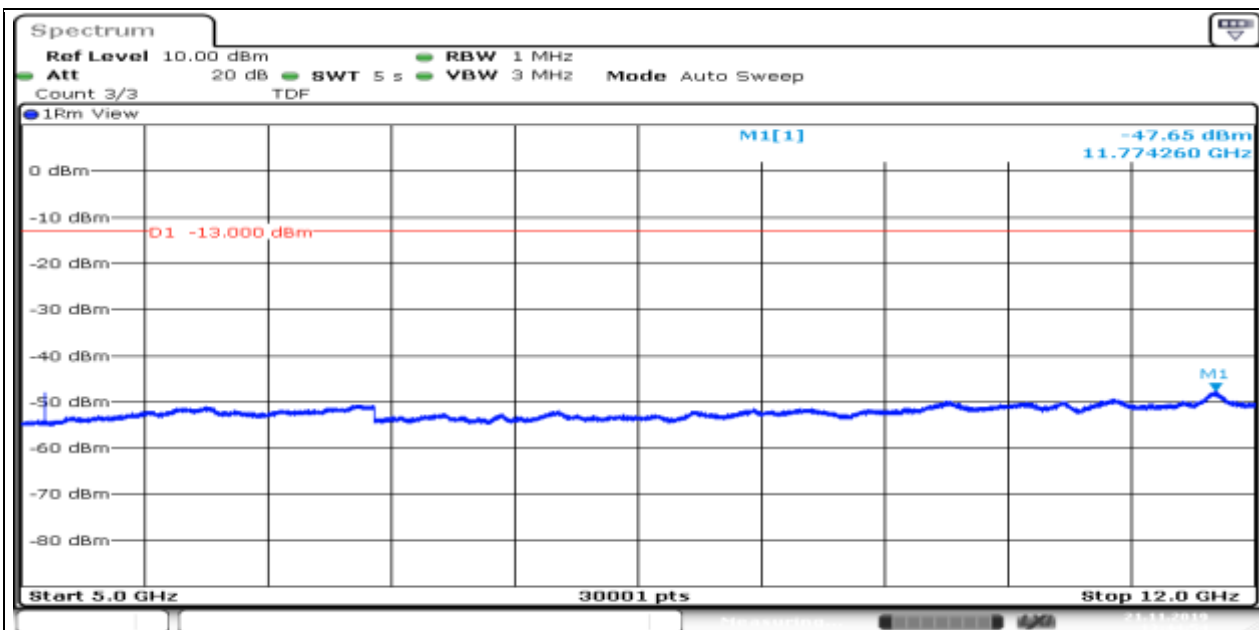


Band4_1.4MHz_16QAM_19957_6_0_Low_12000_26500_-41.81_PASS_



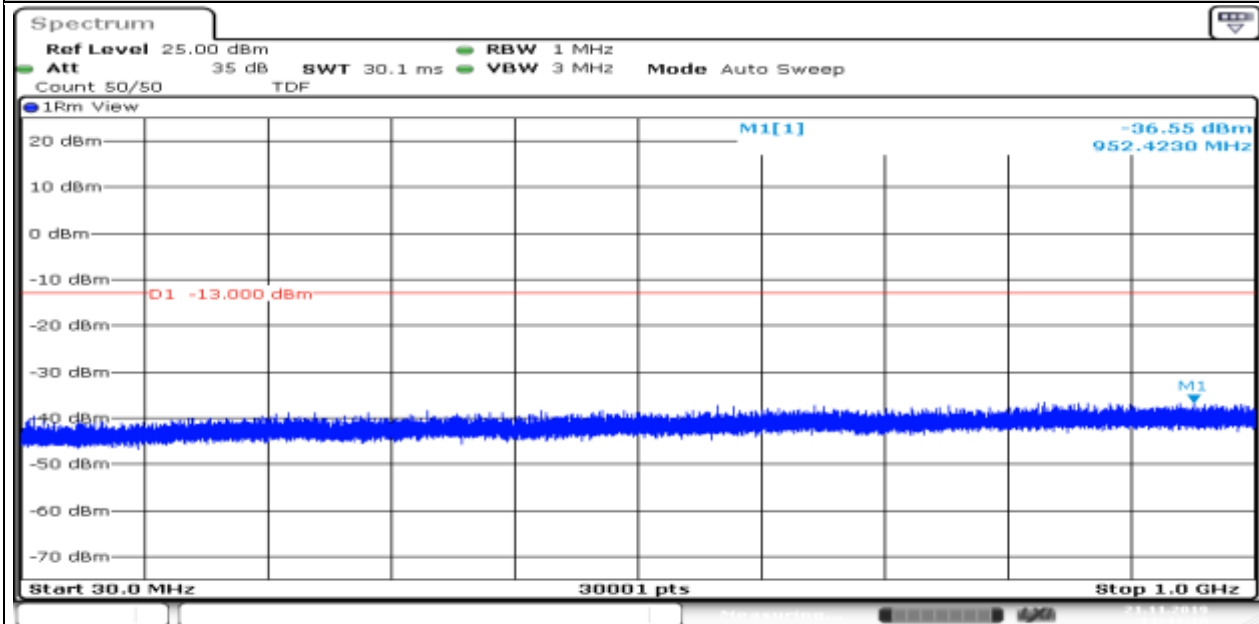
Band4_1.4MHz_16QAM_19957_6_0_Low_5000_12000_-47.65_PASS_

Produkte
Products



Date: 21.NOV.2019 13:44:55

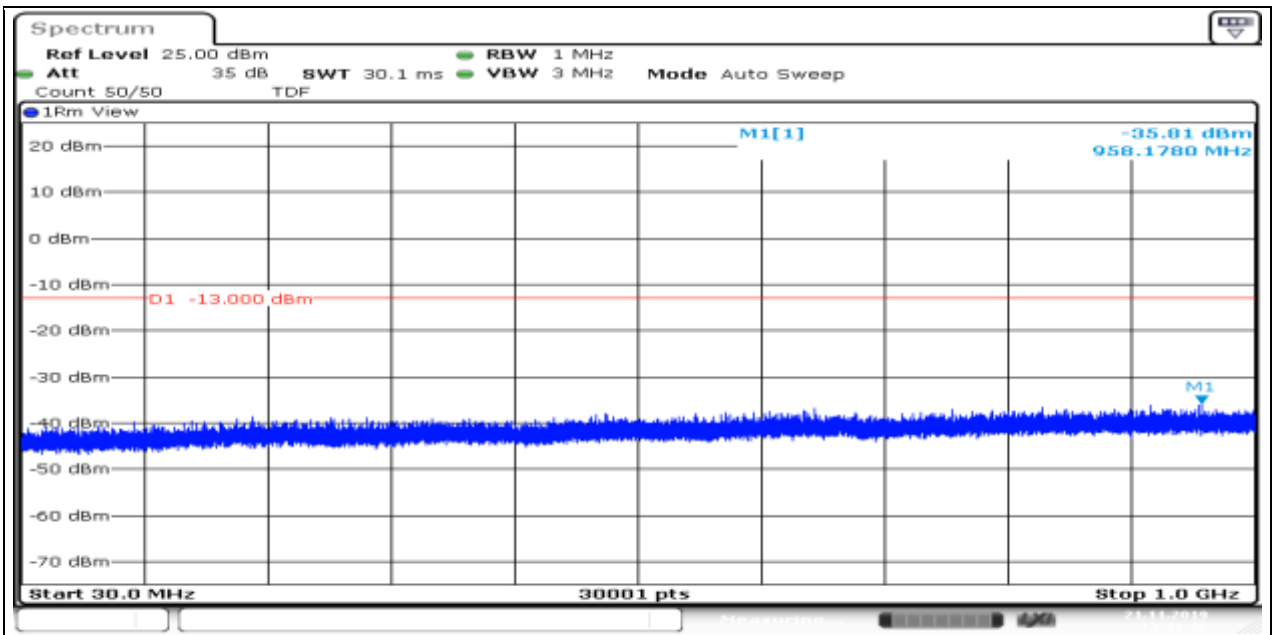
Band4_1.4MHz_16QAM_19957_6_0_Low_30_1000_-36.55_PASS_



Date: 21.NOV.2019 13:44:10

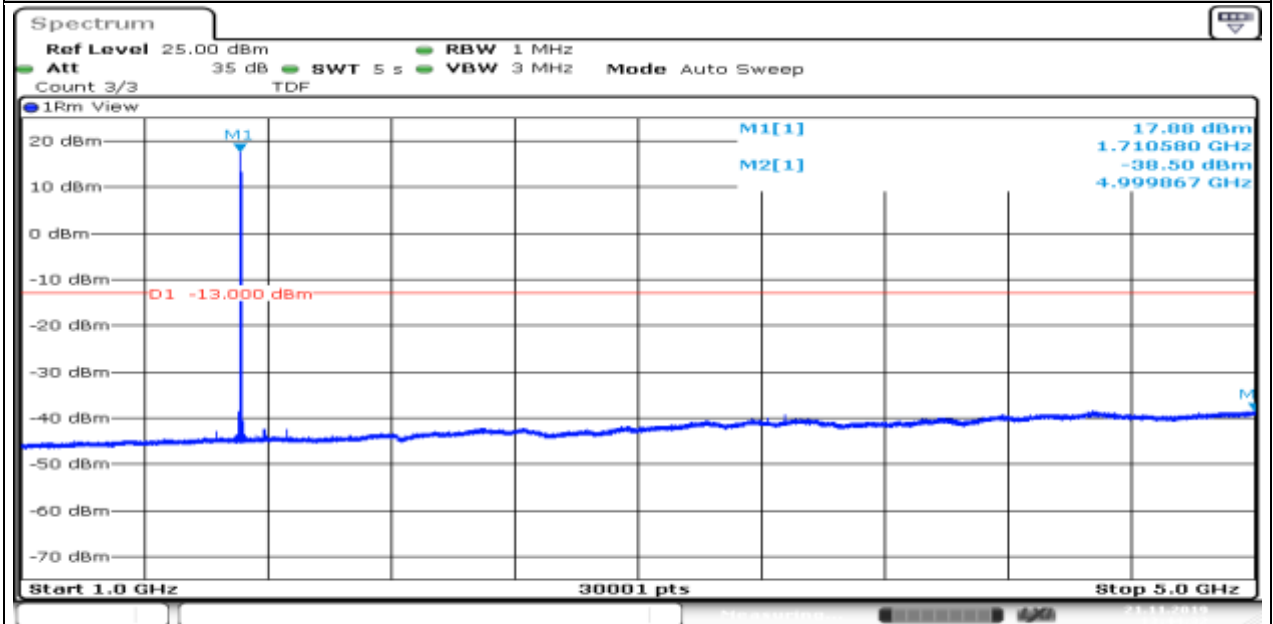
Band4_1.4MHz_16QAM_19957_1_0_Low_30_1000_-35.81_PASS_

Produkte
Products



Date: 21.NOV.2019 13:41:16

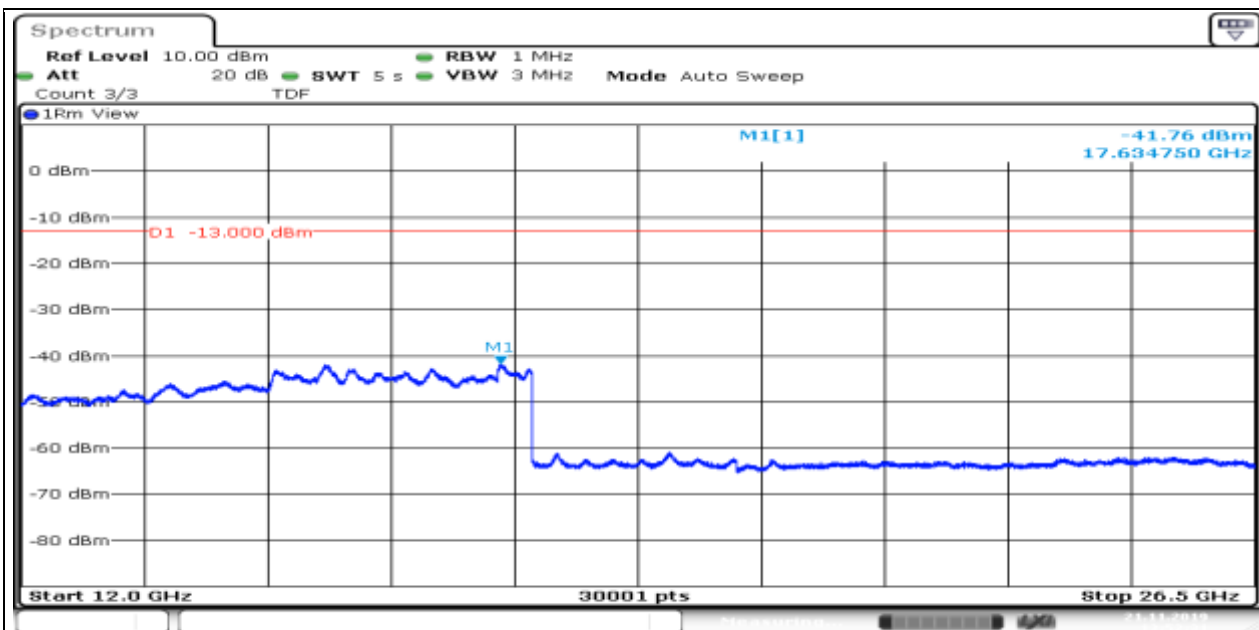
Band4_1.4MHz_16QAM_19957_6_0_Low_1000_5000_-38.5_PASS



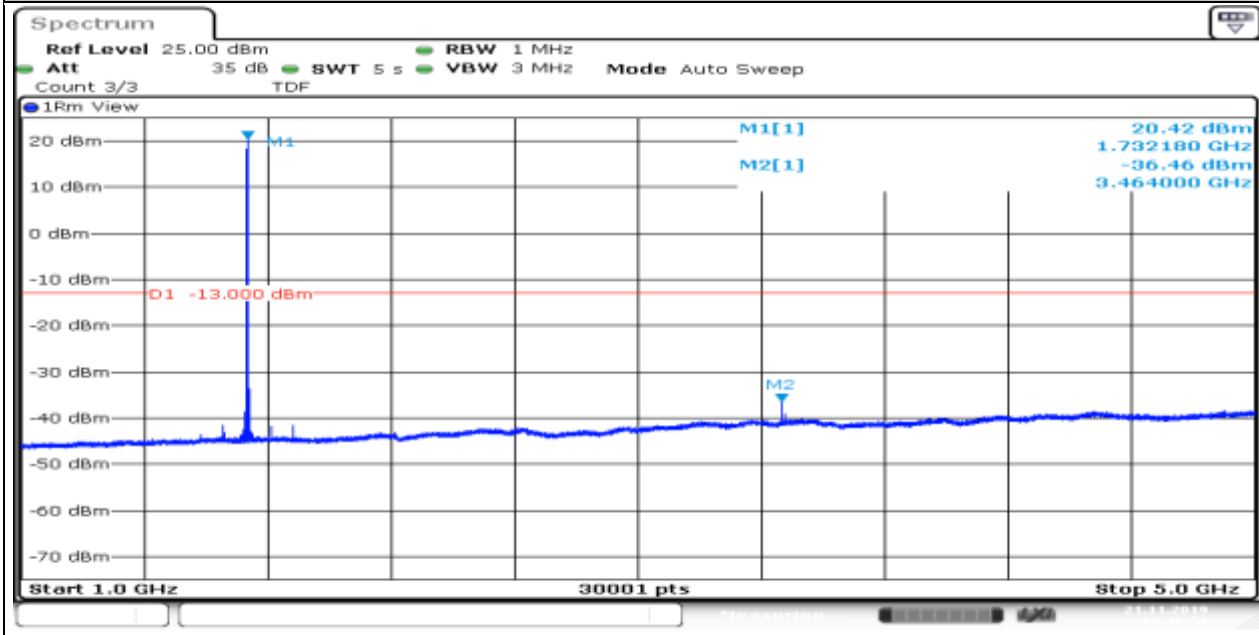
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Band4_1.4MHz_16QAM_20175_6_0_Low_12000_26500_-41.76_PASS

Produkte
 Products

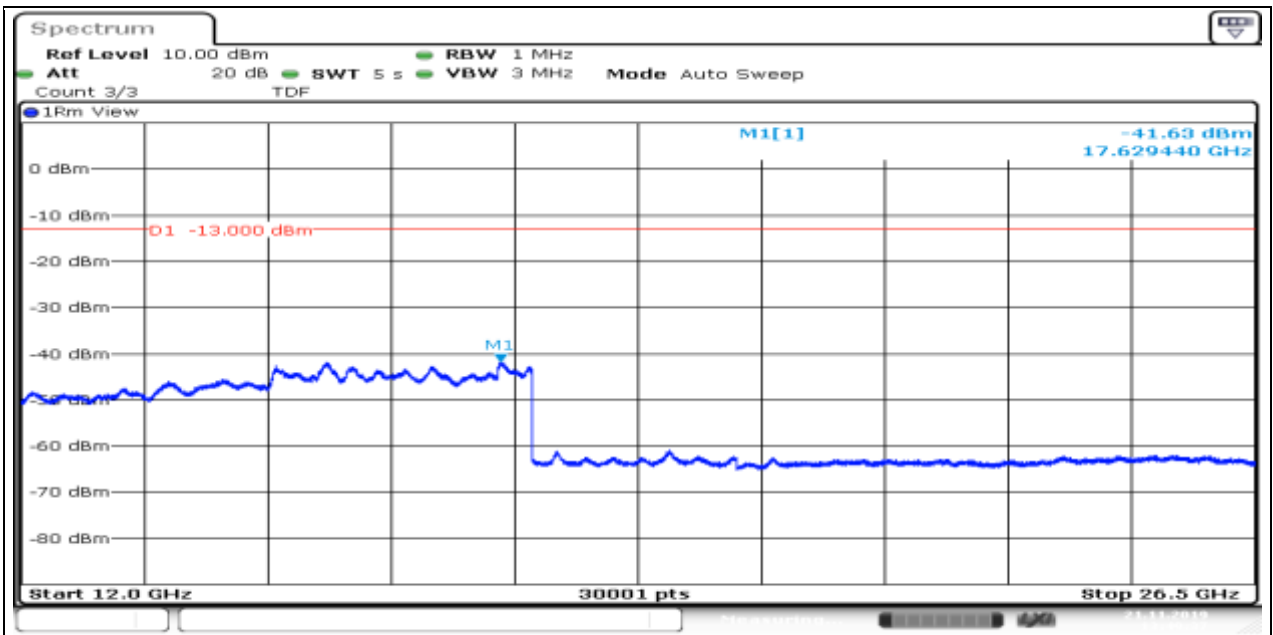


Band4_1.4MHz_16QAM_20175_1_0_Low_1000_5000_-36.46_PASS

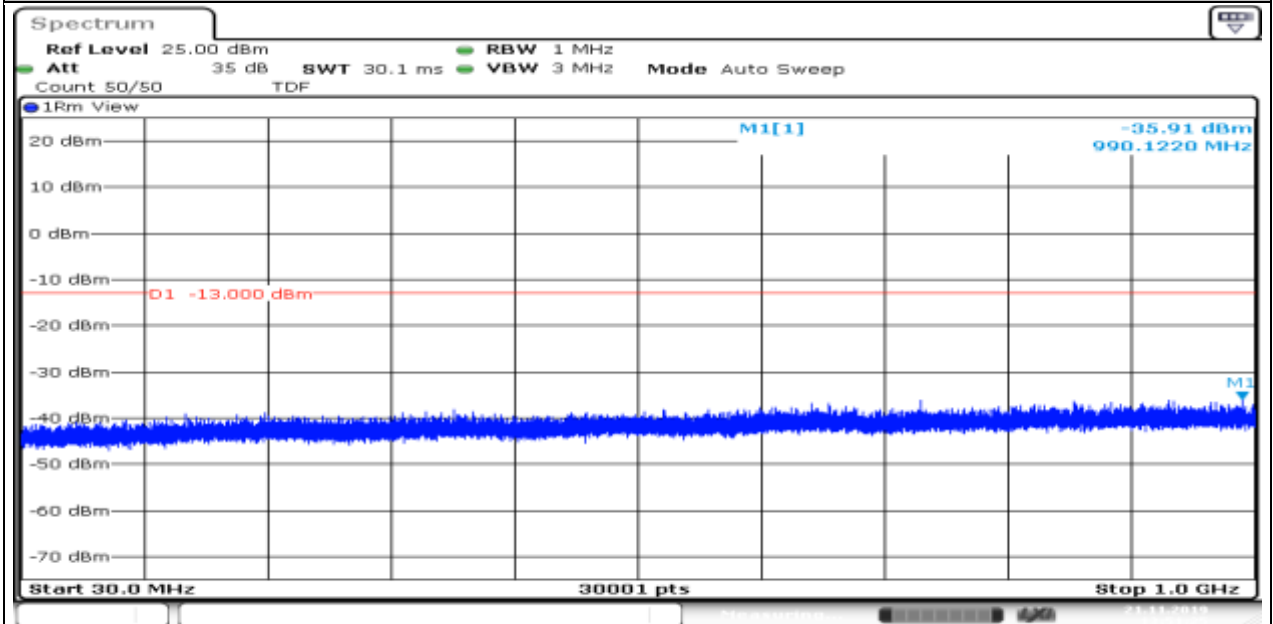


Band4_1.4MHz_16QAM_20175_1_0_Low_12000_26500_-41.63_PASS

Produkte
Products

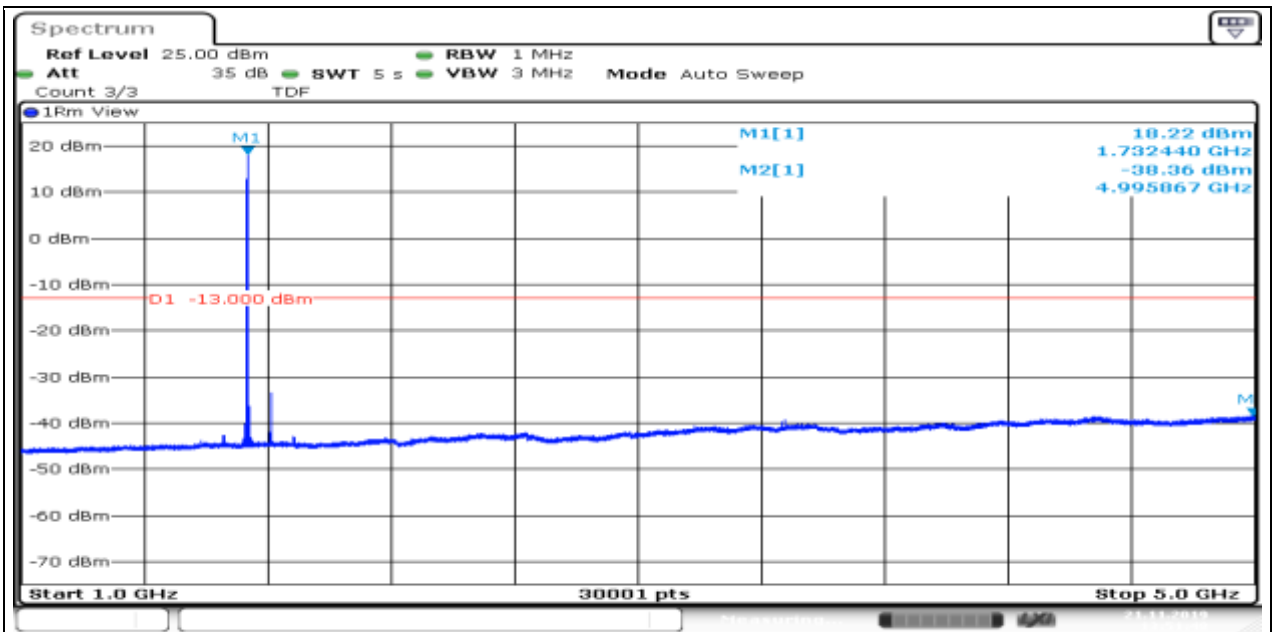


Band4_1.4MHz_16QAM_20175_6_0_Low_30_1000_-35.91_PASS_

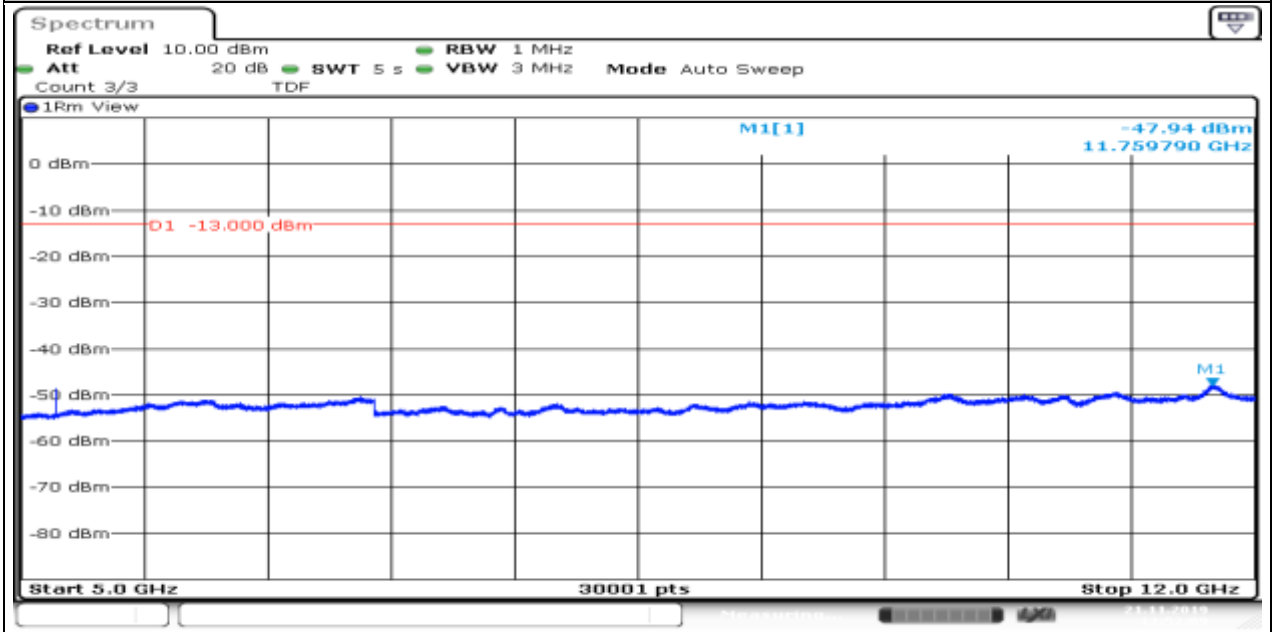


Band4_1.4MHz_16QAM_20175_6_0_Low_1000_5000_-38.36_PASS_

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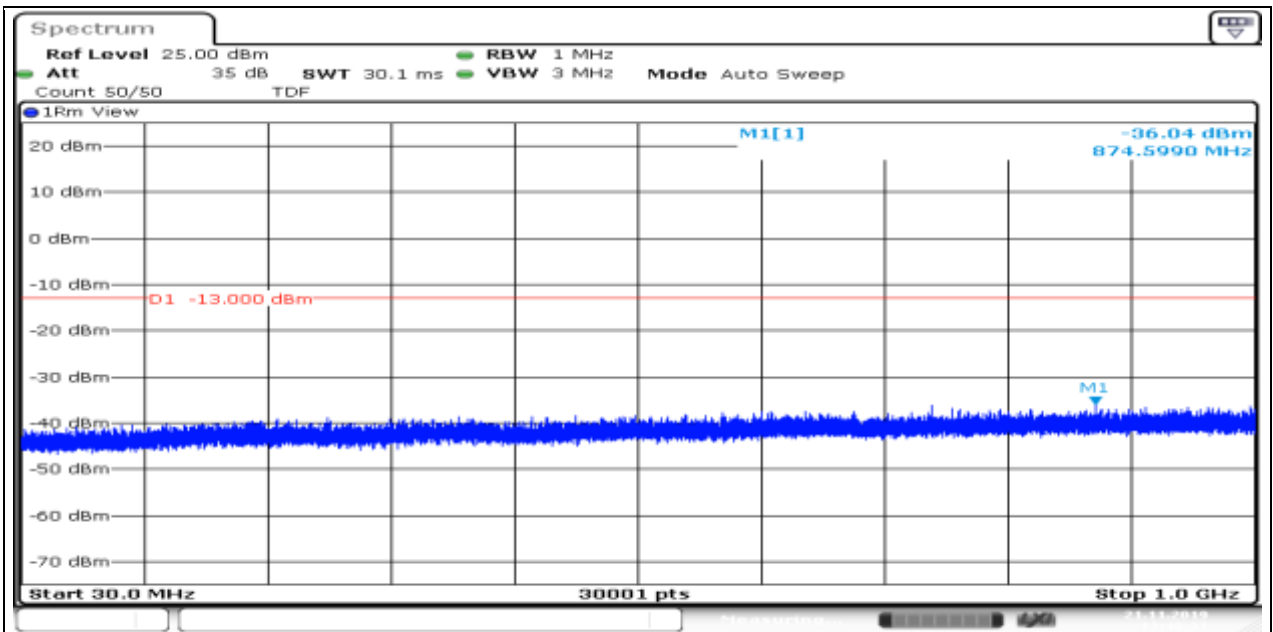


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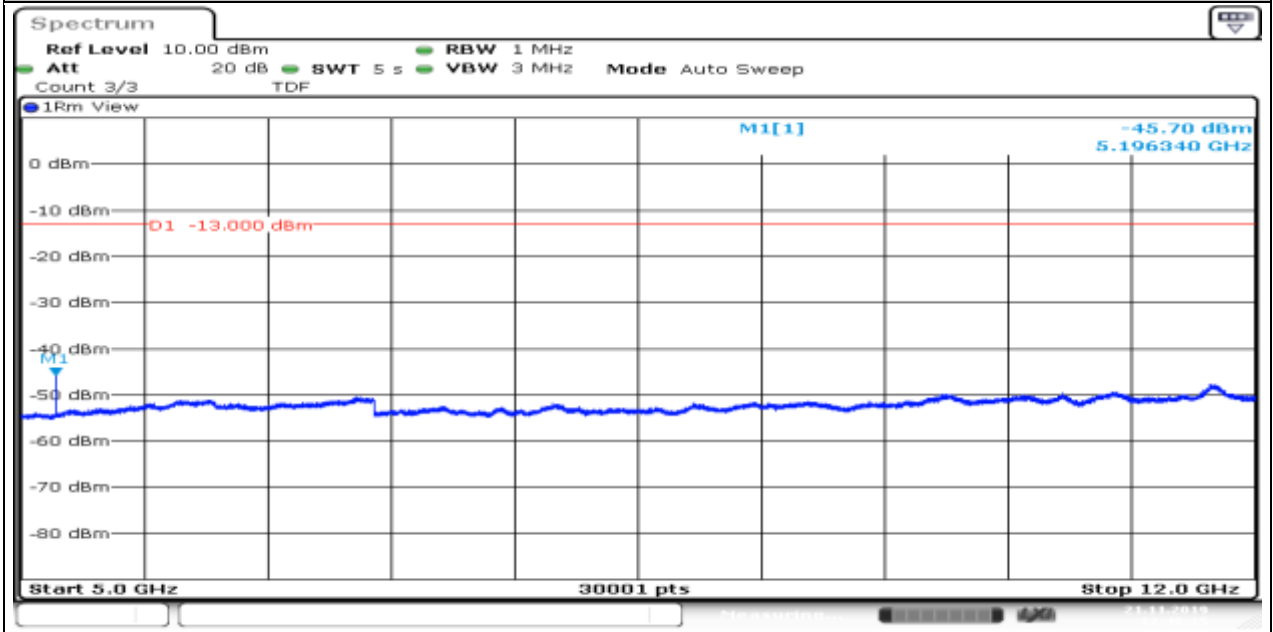


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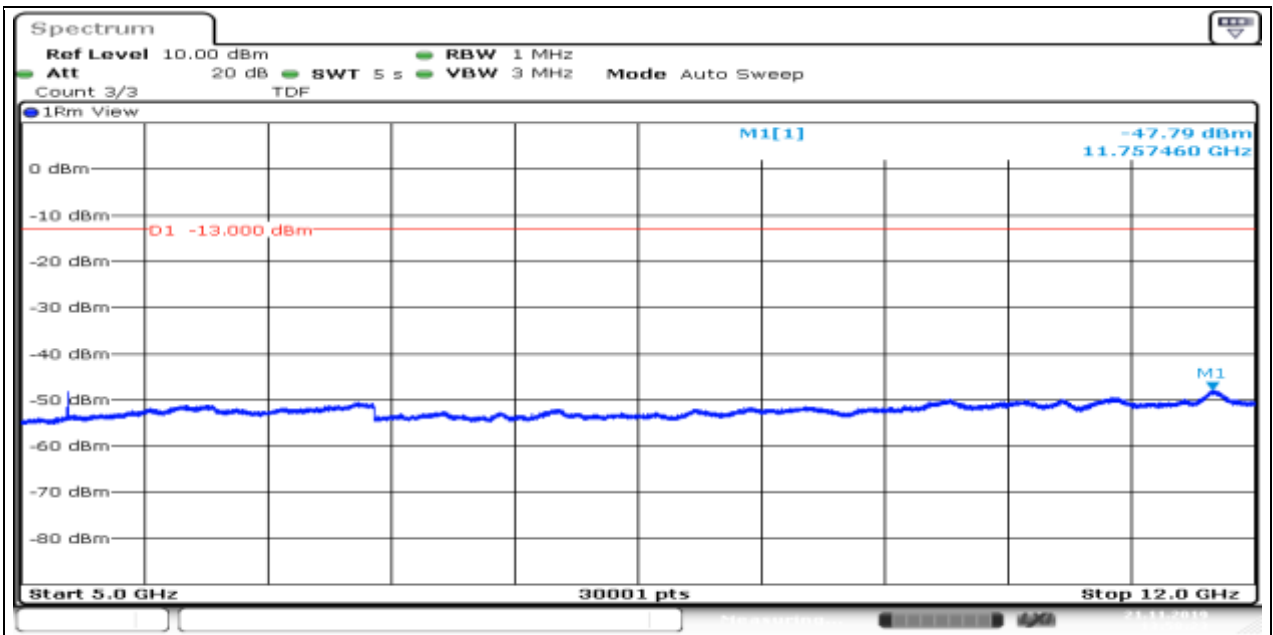


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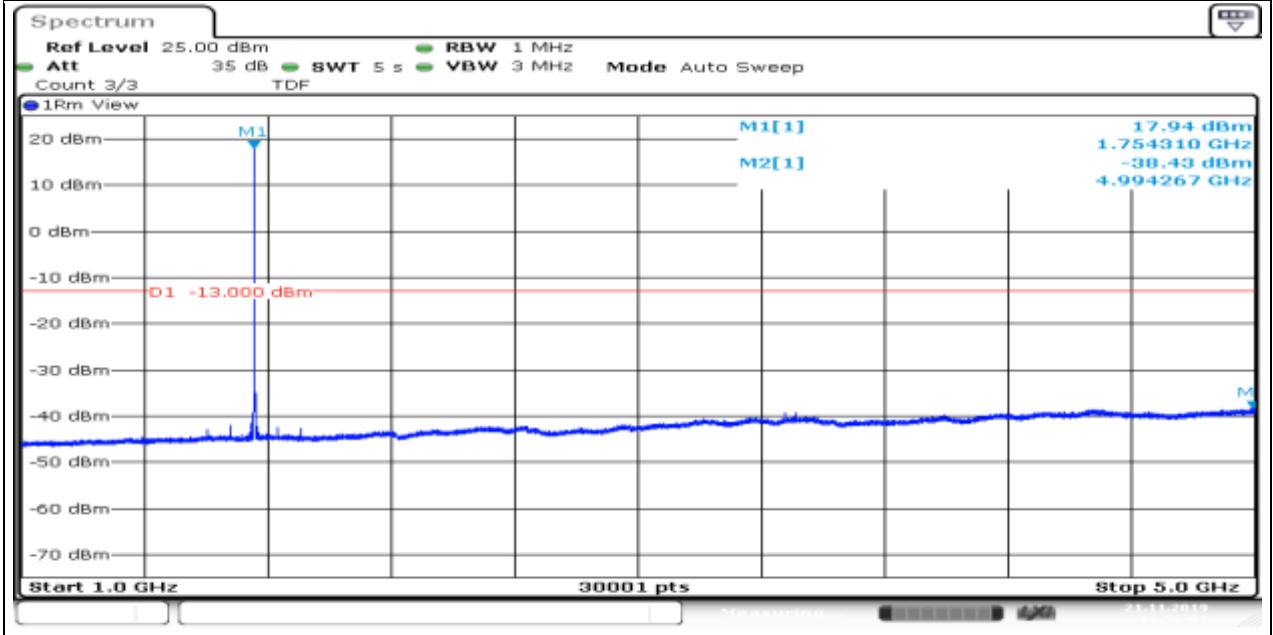


Band4_1.4MHz_16QAM_20393_6_0_Low_5000_12000_-47.79_PASS_

Produkte
Products

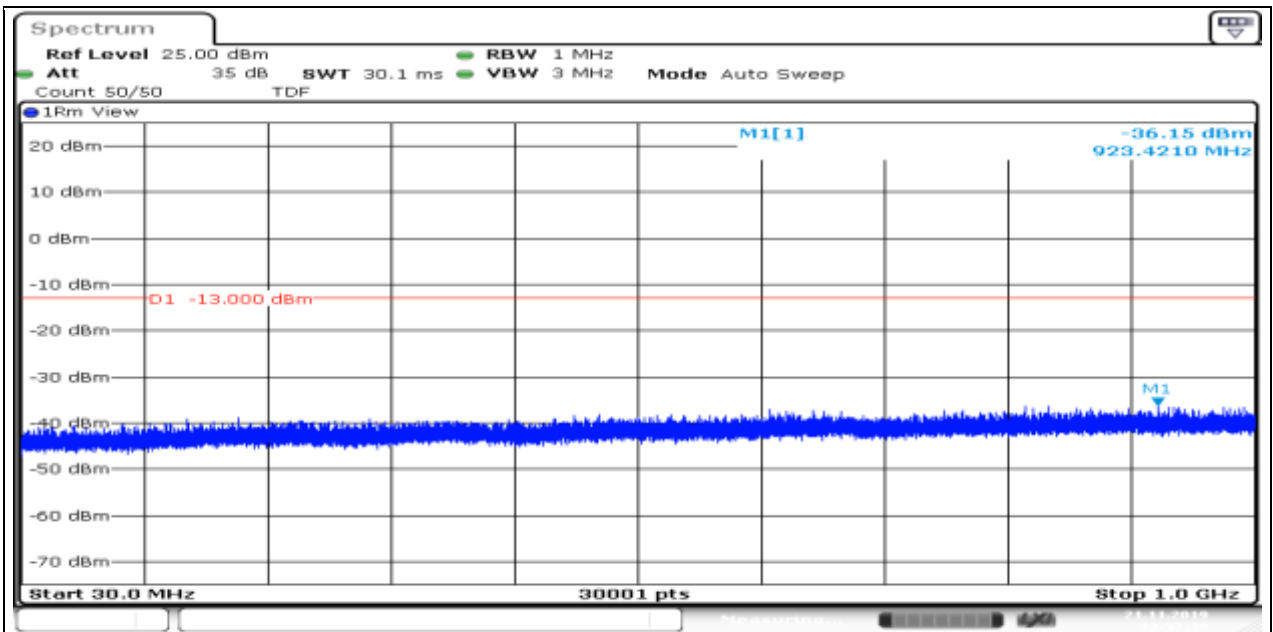


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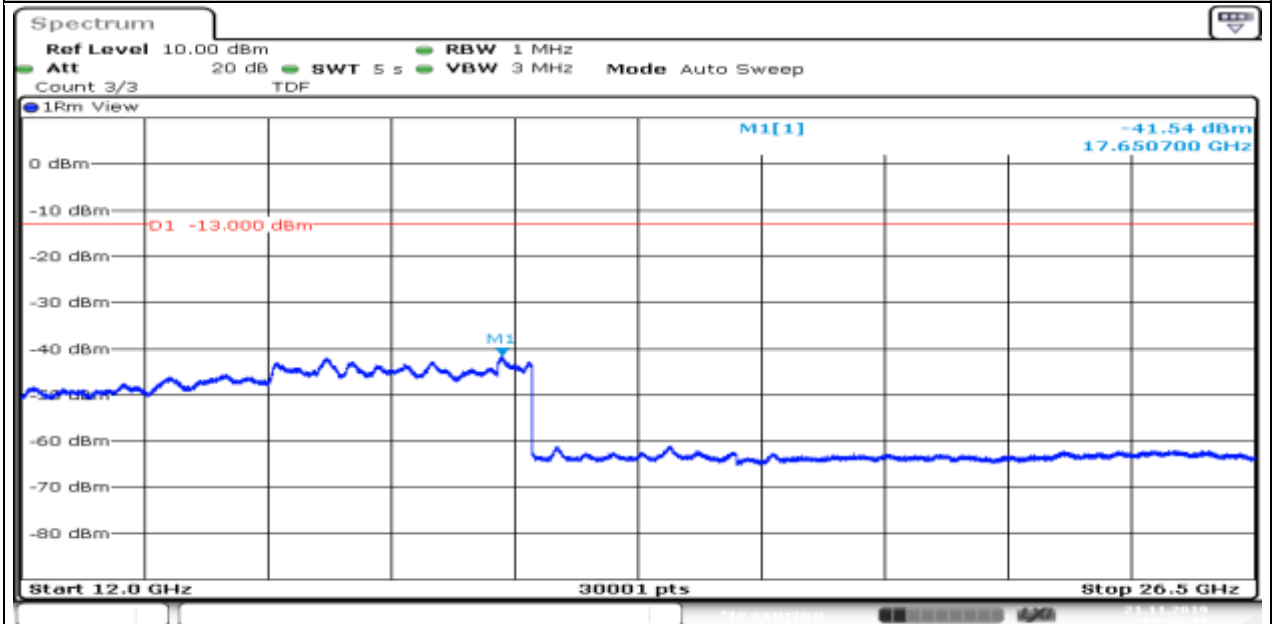


Band4_1.4MHz_16QAM_20393_6_0_Low_30_1000_-36.15_PASS_

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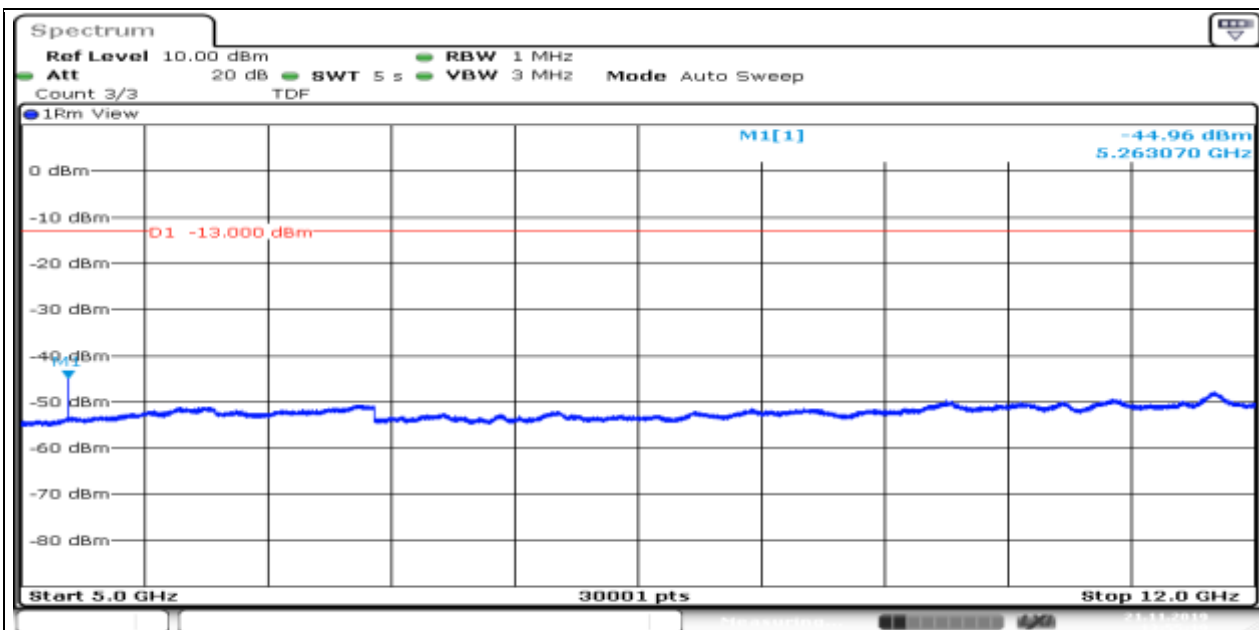


Band4_1.4MHz_16QAM_20393_1_5_Low_12000_26500_-41.54_PASS_



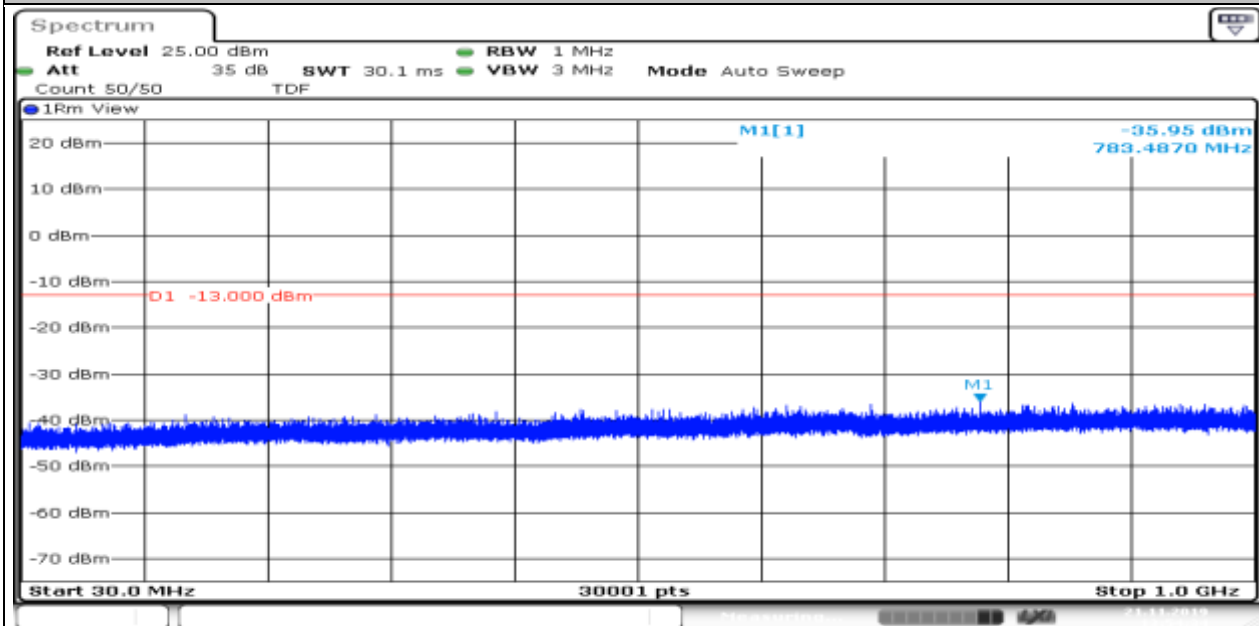
Band4_1.4MHz_16QAM_20393_1_5_Low_5000_12000_-44.96_PASS_

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Date: 21.NOV.2019 13:55:19

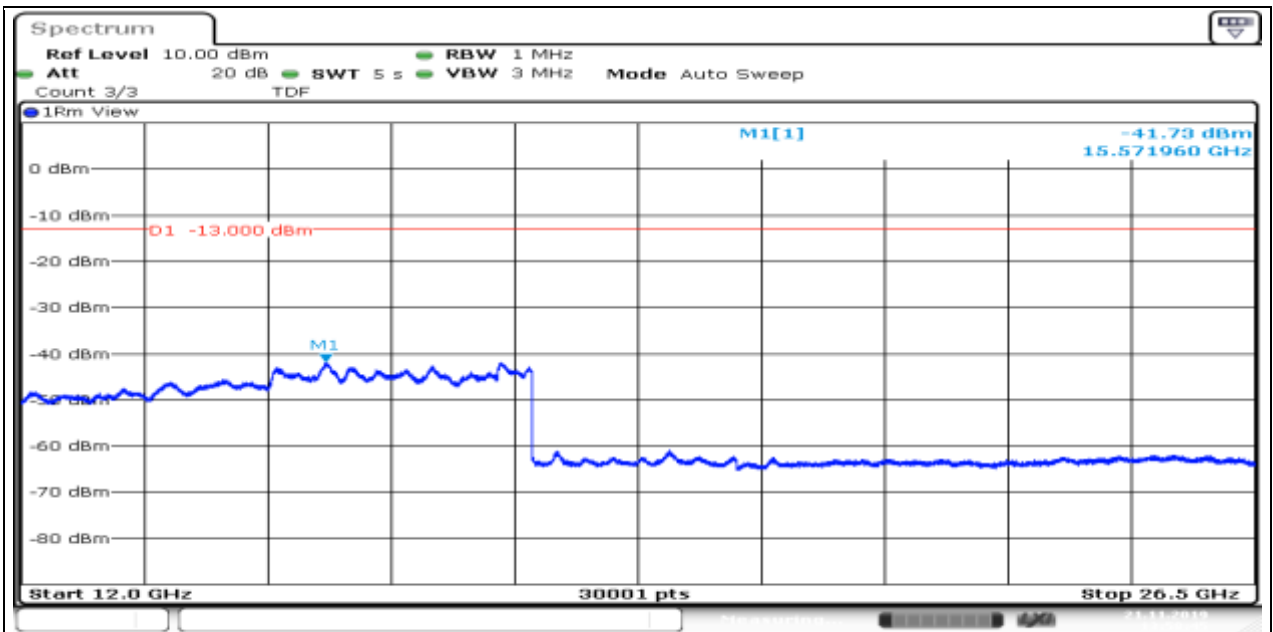
Band4_1.4MHz_16QAM_20393_1_5_Low_30_1000_-35.95_PASS



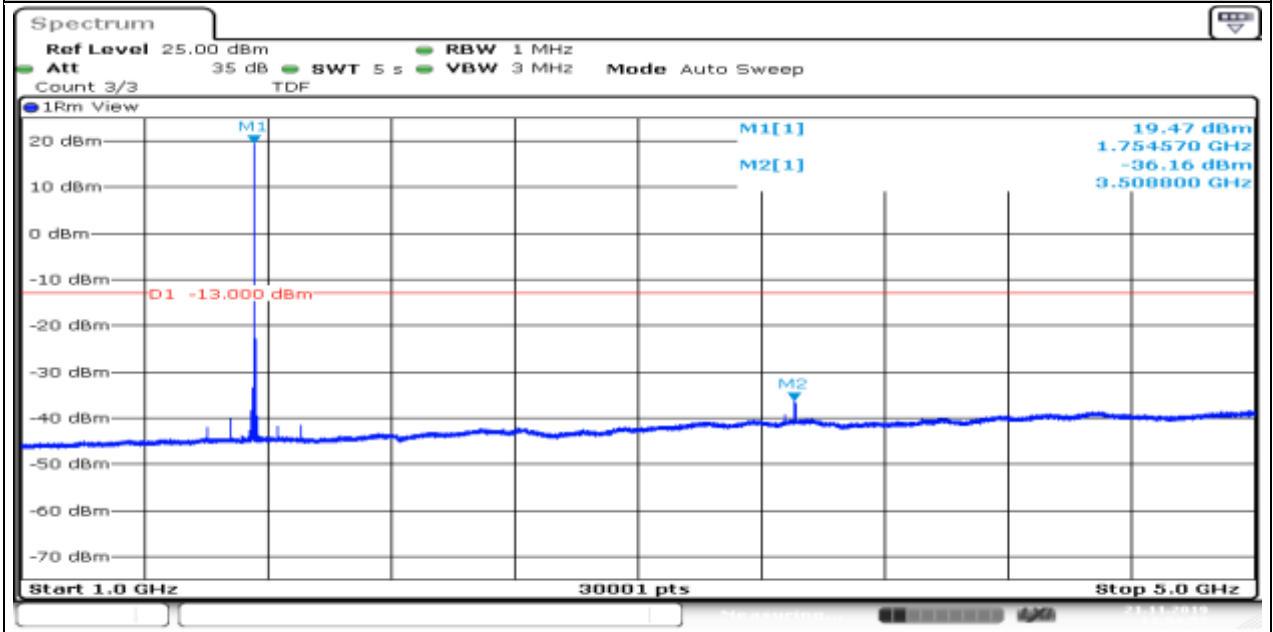
Date: 21.NOV.2019 13:54:35

Band4_1.4MHz_16QAM_20393_6_0_Low_12000_26500_-41.73_PASS

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Band4_1.4MHz_16QAM_20393_1_5_Low_1000_5000_-36.16_PASS



Appendix B.6: Frequency Stability for M1

Test Result

| Voltage | | | | | | | | | | | | |
|---------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | NT | 9.63 | 0.005558 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | HV | NT | 7.48 | 0.004317 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | LV | NT | 11.42 | 0.006592 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | NT | 68.62 | 0.039608 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | LV | NT | 73.06 | 0.04217 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | HV | NT | 73.86 | 0.042632 | ±2.5 | PASS |

| Temperature | | | | | | | | | | | | |
|-------------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 30 | 9.78 | 0.005645 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 0 | 7.58 | 0.004375 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 80 | 11.47 | 0.00662 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 85 | 6.34 | 0.003659 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 70 | 9.71 | 0.005605 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 60 | 6.65 | 0.003838 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 50 | 12.56 | 0.00725 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 40 | 7.22 | 0.004167 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 10 | 4.94 | 0.002851 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | -40 | 7.68 | 0.004433 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | -10 | 7.81 | 0.004508 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | -20 | 4.96 | 0.002863 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | -30 | 11.49 | 0.006632 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1 | 0 | Low | NV | 20 | 6.87 | 0.003965 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 50 | 72.41 | 0.041795 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 85 | 68.05 | 0.039278 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 80 | 65.83 | 0.037997 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 60 | 74.87 | 0.043215 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 40 | 72.88 | 0.042066 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 30 | 64.93 | 0.037478 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 20 | 72.17 | 0.041657 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 0 | 73.47 | 0.042407 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | -10 | 74.03 | 0.04273 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | -20 | 66.59 | 0.038436 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | -30 | 66.45 | 0.038355 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | -40 | 72.78 | 0.042009 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 10 | 64.64 | 0.03731 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1 | 0 | Low | NV | 70 | 72.01 | 0.041564 | ±2.5 | PASS |