# Appendix B

## E-UTRA Band CA_41C

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# 1 Effective (Isotropic) Radiated Power Output Data

## 1.1 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_41C

| BAND | Test Mode PCC/SCC | Channel PCC/SCC | RB Configuration | | Modulation PCC&SCC | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| | | | PCC | SCC | | | | | |
| CA_41C | 100RB+25RB | 39750+39867 | 1RB#0 | 0RB#0 | QPSK | 21.77 | 28.77 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 39750+39867 | 18RB#0 | 0RB#0 | QPSK | 22.33 | 29.33 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 1RB#0 | 0RB#0 | QPSK | 22.98 | 29.98 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 18RB#0 | 0RB#0 | QPSK | 23.21 | 30.21 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 1RB#0 | 0RB#0 | QPSK | 22.76 | 29.76 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 18RB#0 | 0RB#0 | QPSK | 22.79 | 29.79 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 1RB#0 | 0RB#0 | QPSK | 22.00 | 29.00 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 8RB#0 | 0RB#0 | QPSK | 21.73 | 28.73 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 1RB#0 | 0RB#0 | QPSK | 23.52 | 30.52 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 8RB#0 | 0RB#0 | QPSK | 23.38 | 30.38 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 1RB#0 | 0RB#0 | QPSK | 23.42 | 30.42 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 8RB#0 | 0RB#0 | QPSK | 23.10 | 30.10 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39750+39948 | 1RB#0 | 0RB#0 | QPSK | 22.29 | 29.29 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39750+39948 | 18RB#0 | 0RB#0 | QPSK | 22.43 | 29.43 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 1RB#0 | 0RB#0 | QPSK | 23.29 | 30.29 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 18RB#0 | 0RB#0 | QPSK | 23.54 | 30.54 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 1RB#0 | 0RB#0 | QPSK | 23.46 | 30.46 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 18RB#0 | 0RB#0 | QPSK | 23.32 | 30.32 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 1RB#0 | 0RB#0 | QPSK | 21.78 | 28.78 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 18RB#0 | 0RB#0 | QPSK | 21.79 | 28.79 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 1RB#0 | 0RB#0 | QPSK | 23.31 | 30.31 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 18RB#0 | 0RB#0 | QPSK | 23.59 | 30.59 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 1RB#0 | 0RB#0 | QPSK | 23.20 | 30.20 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 18RB#0 | 0RB#0 | QPSK | 22.91 | 29.91 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 39750+39867 | 1RB#0 | 0RB#0 | 16QAM | 21.38 | 28.38 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 39750+39867 | 18RB#0 | 0RB#0 | 16QAM | 21.37 | 28.37 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 1RB#0 | 0RB#0 | 16QAM | 22.50 | 29.50 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 18RB#0 | 0RB#0 | 16QAM | 22.33 | 29.33 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 1RB#0 | 0RB#0 | 16QAM | 21.91 | 28.91 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 18RB#0 | 0RB#0 | 16QAM | 21.71 | 28.71 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 1RB#0 | 0RB#0 | 16QAM | 20.86 | 27.86 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 8RB#0 | 0RB#0 | 16QAM | 21.26 | 28.26 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 1RB#0 | 0RB#0 | 16QAM | 22.69 | 29.69 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 8RB#0 | 0RB#0 | 16QAM | 22.22 | 29.22 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 1RB#0 | 0RB#0 | 16QAM | 21.77 | 28.77 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 8RB#0 | 0RB#0 | 16QAM | 22.11 | 29.11 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39750+39948 | 1RB#0 | 0RB#0 | 16QAM | 21.45 | 28.45 | 33.00 | PASS |

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CA_41C | 100RB+100RB | 39750+39948 | 18RB#0 | 0RB#0 | 16QAM | 21.15 | 28.15 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 1RB#0 | 0RB#0 | 16QAM | 22.38 | 29.38 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 18RB#0 | 0RB#0 | 16QAM | 22.52 | 29.52 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 1RB#0 | 0RB#0 | 16QAM | 22.11 | 29.11 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 18RB#0 | 0RB#0 | 16QAM | 22.33 | 29.33 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 1RB#0 | 0RB#0 | 16QAM | 20.75 | 27.75 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 18RB#0 | 0RB#0 | 16QAM | 21.00 | 28.00 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 1RB#0 | 0RB#0 | 16QAM | 22.62 | 29.62 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 18RB#0 | 0RB#0 | 16QAM | 22.39 | 29.39 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 1RB#0 | 0RB#0 | 16QAM | 22.43 | 29.43 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 18RB#0 | 0RB#0 | 16QAM | 22.16 | 29.16 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 39750+39867 | 1RB#0 | 0RB#0 | 64QAM | 20.12 | 27.12 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 39750+39867 | 18RB#0 | 0RB#0 | 64QAM | 19.72 | 26.72 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 1RB#0 | 0RB#0 | 64QAM | 21.25 | 28.25 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 40595+40712 | 18RB#0 | 0RB#0 | 64QAM | 21.44 | 28.44 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 1RB#0 | 0RB#0 | 64QAM | 21.03 | 28.03 | 33.00 | PASS |
| CA_41C | 100RB+25RB | 41440+41557 | 18RB#0 | 0RB#0 | 64QAM | 21.17 | 28.17 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 1RB#0 | 0RB#0 | 64QAM | 20.43 | 27.43 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 39867+39750 | 8RB#0 | 0RB#0 | 64QAM | 20.11 | 27.11 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 1RB#0 | 0RB#0 | 64QAM | 21.00 | 28.00 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 40712+40595 | 8RB#0 | 0RB#0 | 64QAM | 21.36 | 28.36 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 1RB#0 | 0RB#0 | 64QAM | 20.72 | 27.72 | 33.00 | PASS |
| CA_41C | 25RB+100RB | 41557+41440 | 8RB#0 | 0RB#0 | 64QAM | 21.32 | 28.32 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39750+39948 | 1RB#0 | 0RB#0 | 64QAM | 20.38 | 27.38 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39750+39948 | 18RB#0 | 0RB#0 | 64QAM | 19.94 | 26.94 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 1RB#0 | 0RB#0 | 64QAM | 21.26 | 28.26 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40521+40719 | 18RB#0 | 0RB#0 | 64QAM | 21.47 | 28.47 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 1RB#0 | 0RB#0 | 64QAM | 20.94 | 27.94 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41292+41490 | 18RB#0 | 0RB#0 | 64QAM | 21.36 | 28.36 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 1RB#0 | 0RB#0 | 64QAM | 19.96 | 26.96 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 39948+39750 | 18RB#0 | 0RB#0 | 64QAM | 19.86 | 26.86 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 1RB#0 | 0RB#0 | 64QAM | 21.25 | 28.25 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 40719+40521 | 18RB#0 | 0RB#0 | 64QAM | 21.41 | 28.41 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 1RB#0 | 0RB#0 | 64QAM | 20.96 | 27.96 | 33.00 | PASS |
| CA_41C | 100RB+100RB | 41490+41292 | 18RB#0 | 0RB#0 | 64QAM | 21.50 | 28.50 | 33.00 | PASS |

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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# 2 Peak-to-Average Ratio

**Part I - Test Results**

| Test Band | Modulation | Test Mode | Test Channel | PCC RB Config | SCC RB Config | Measured [dB] | Limit [dB] | Verdict |
|---|---|---|---|---|---|---|---|---|
| CA_41C | QPSK | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 6.78 | 13 | PASS |
| CA_41C | QPSK | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 7.62 | 13 | PASS |
| CA_41C | QPSK | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 8.90 | 13 | PASS |
| CA_41C | QPSK | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 6.90 | 13 | PASS |
| CA_41C | QPSK | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 6.99 | 13 | PASS |
| CA_41C | QPSK | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 6.81 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 6.99 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 6.90 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 7.07 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 6.75 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 6.87 | 13 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 8.46 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 6.99 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 8.14 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 6.78 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 6.96 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 7.68 | 13 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 6.75 | 13 | PASS |

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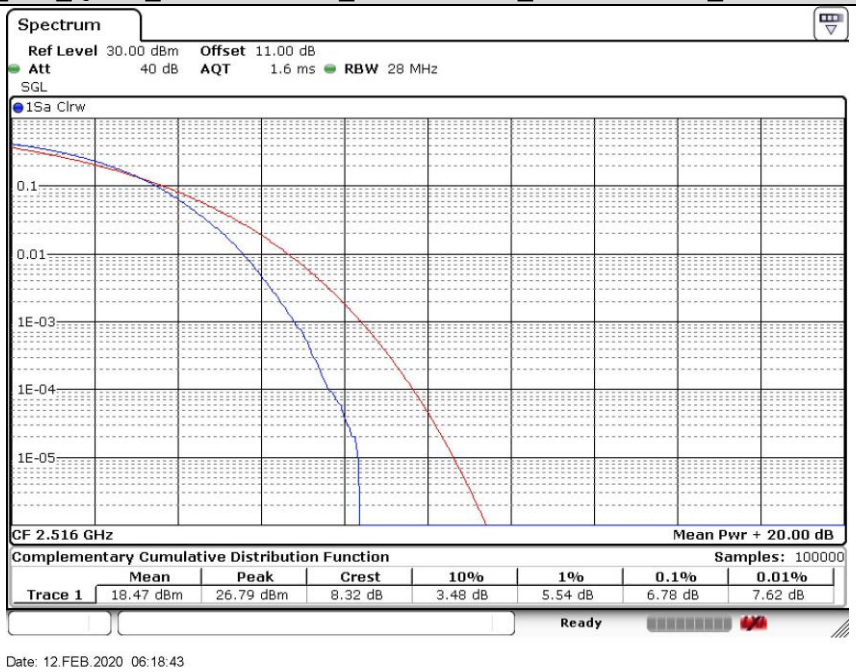
Part II - Test Plots

## 2.1 For LTE

### 2.1.1 Test Band = LTE Band CA_41C

CA_41C_QPSK_100RB+100RB_39750+39948_PCC:100RB#0_SCC:100RB#0




Date: 12.FEB.2020 06:18:43

CA_41C_QPSK_100RB+100RB_40521+40719_PCC:100RB#0_SCC:100RB#0

Date: 12.FEB.2020 06:20:36

CA_41C_QPSK_100RB+100RB_41292+41490_PCC:100RB#0_SCC:100RB#0

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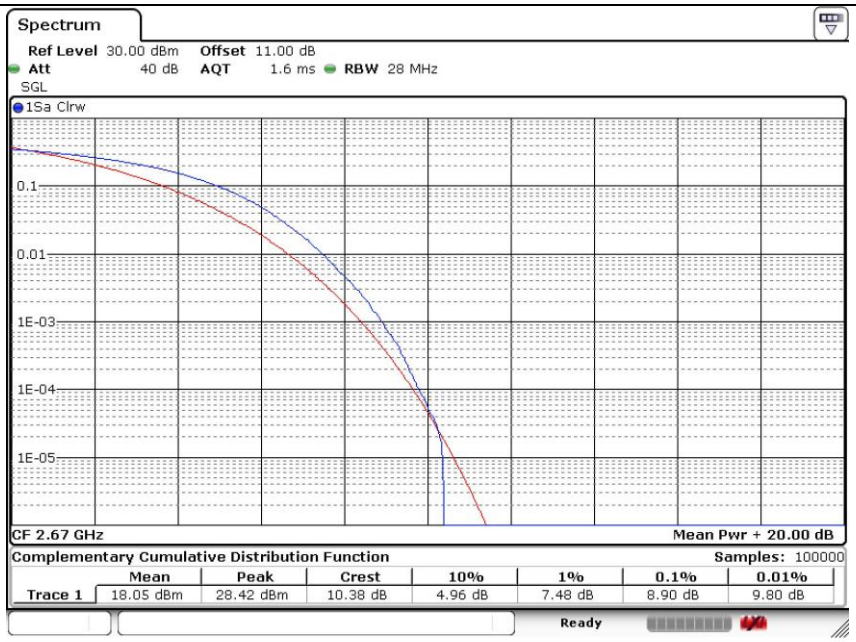


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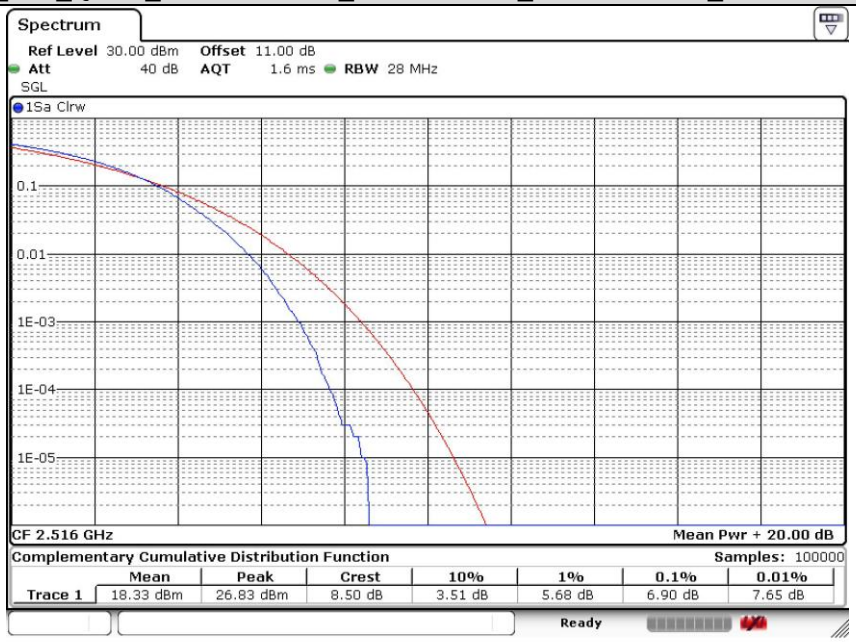


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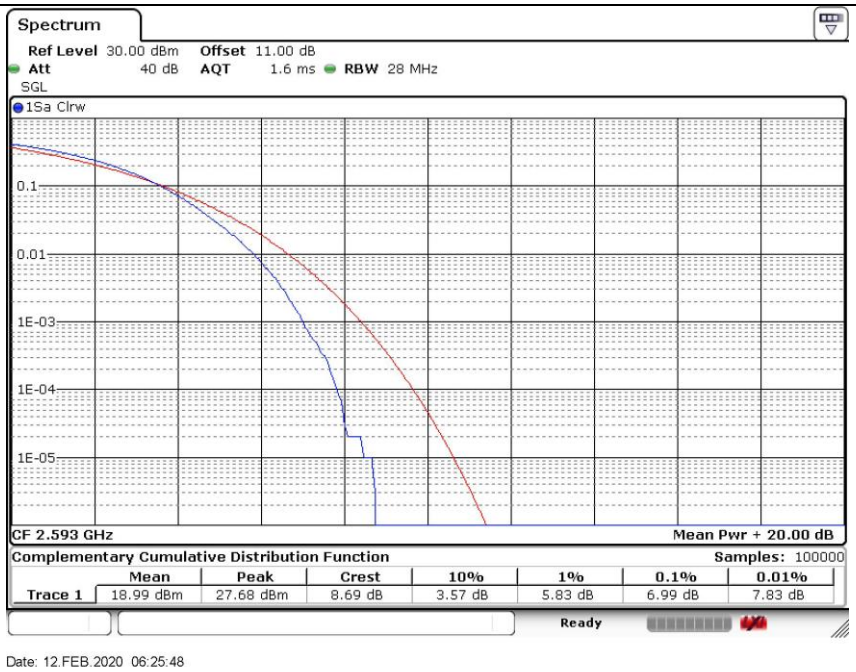


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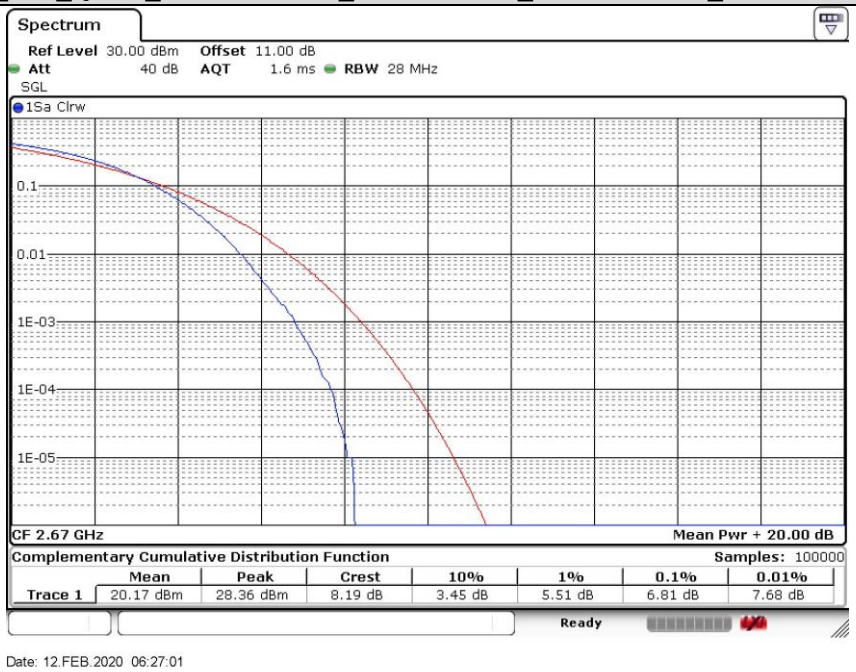


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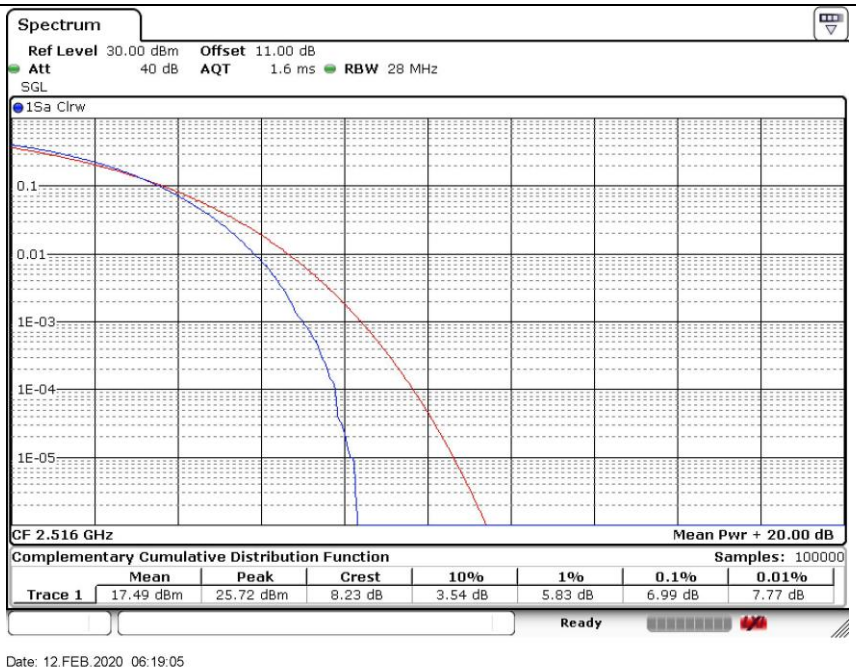


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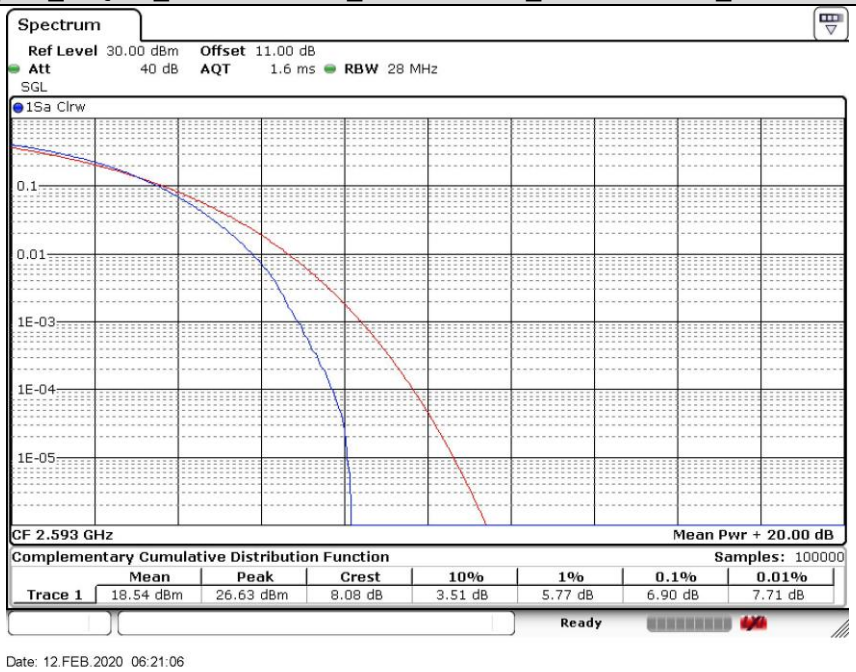


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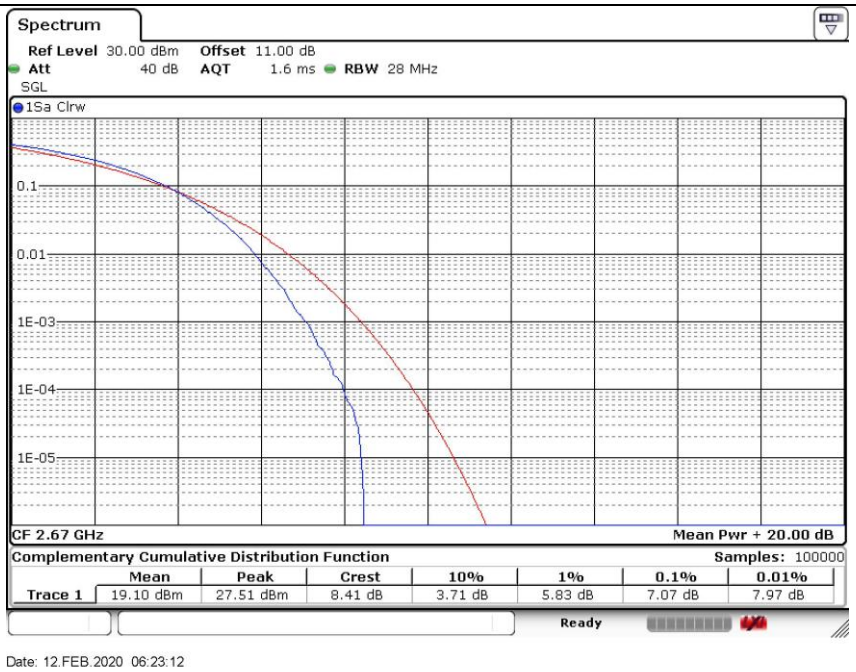


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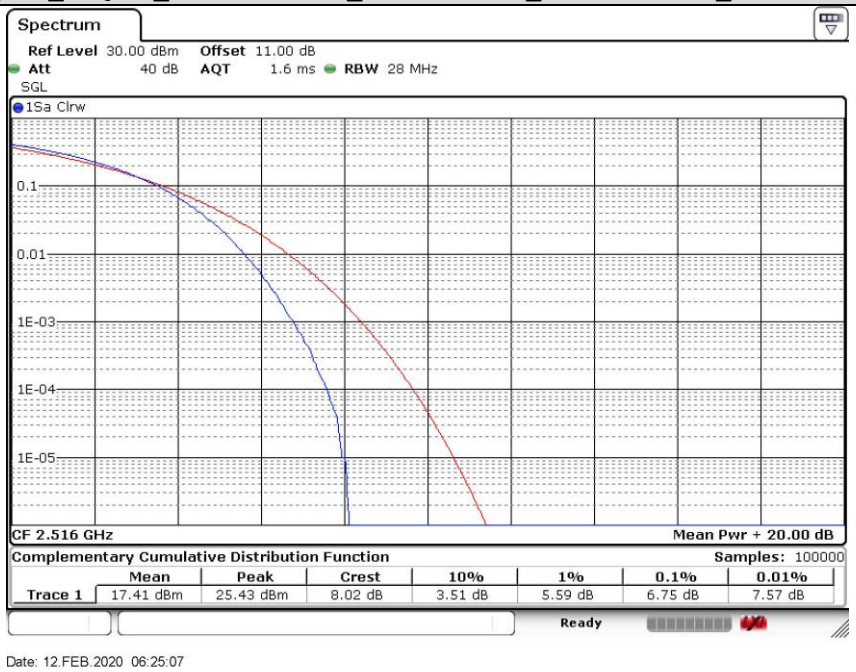


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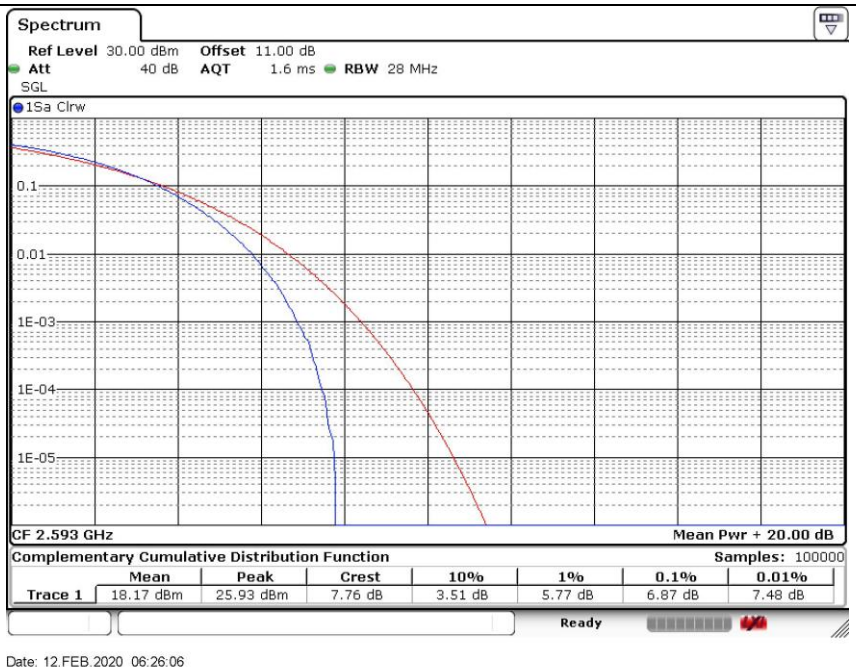


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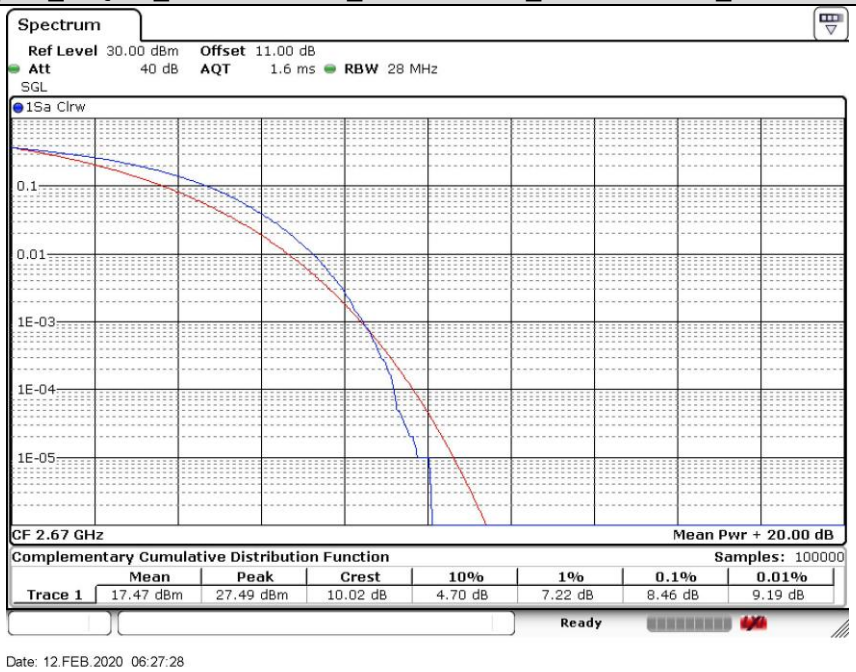


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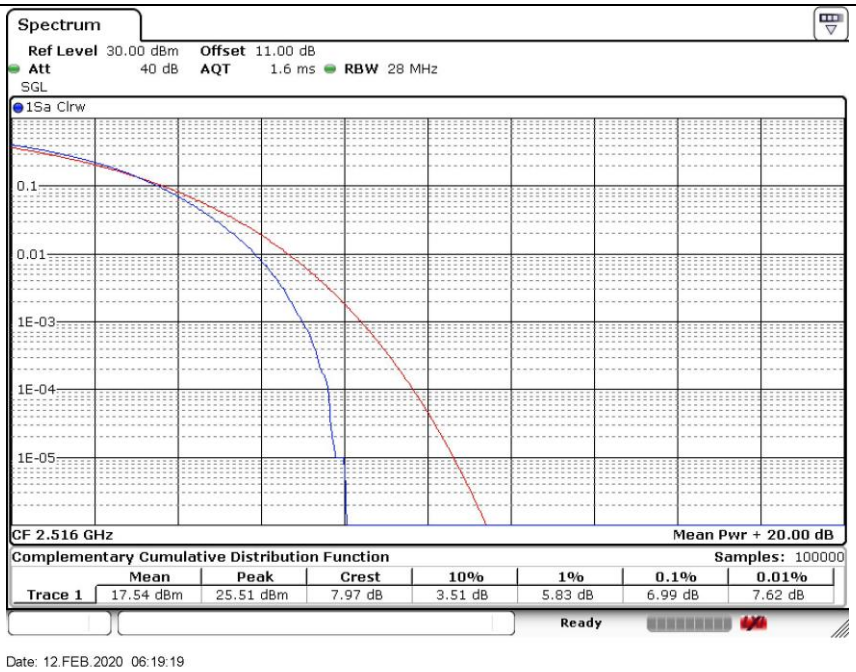


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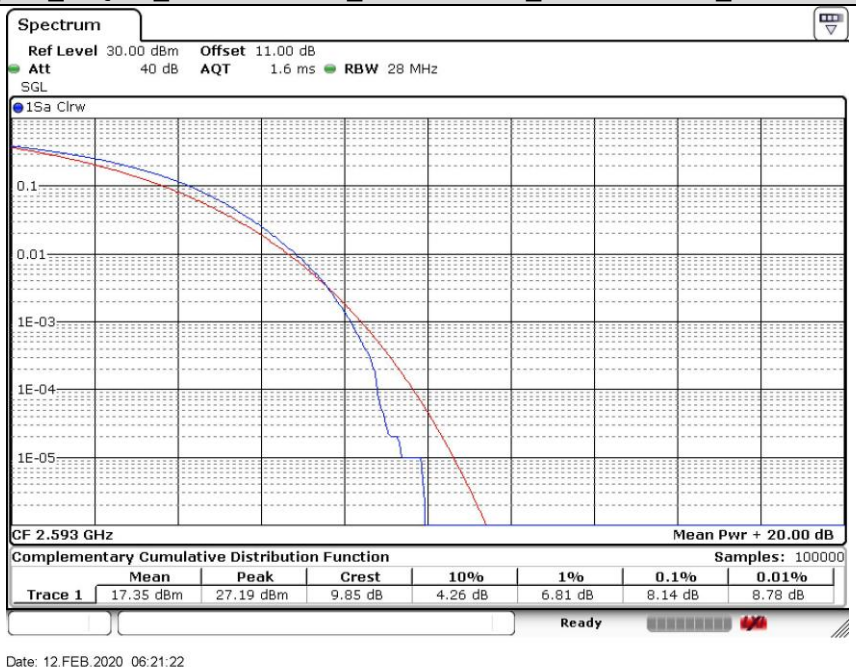


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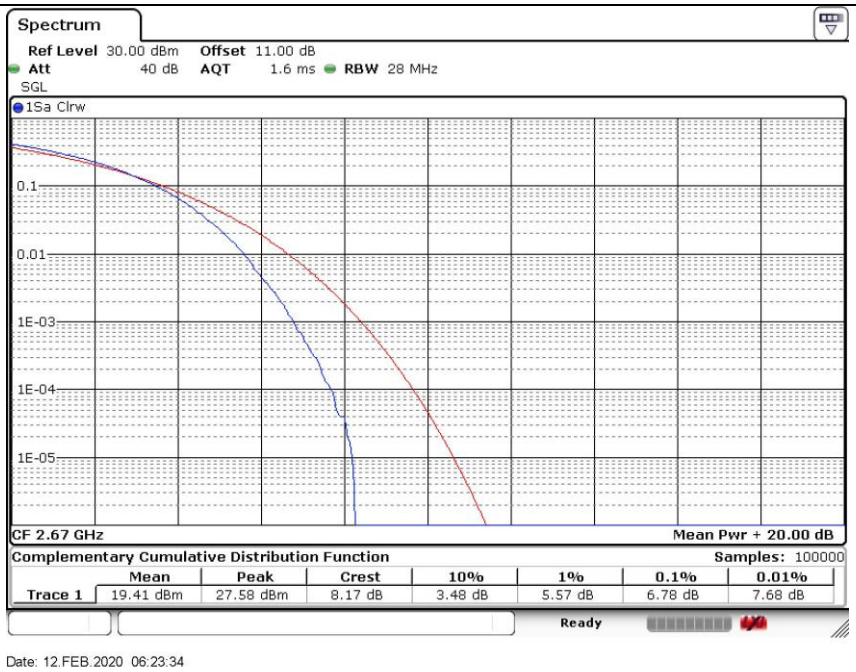


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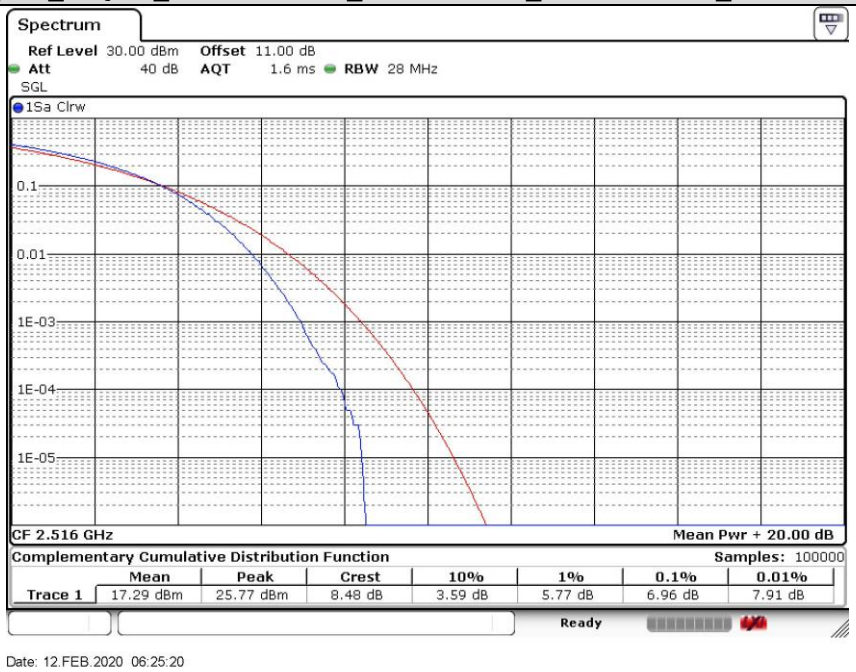


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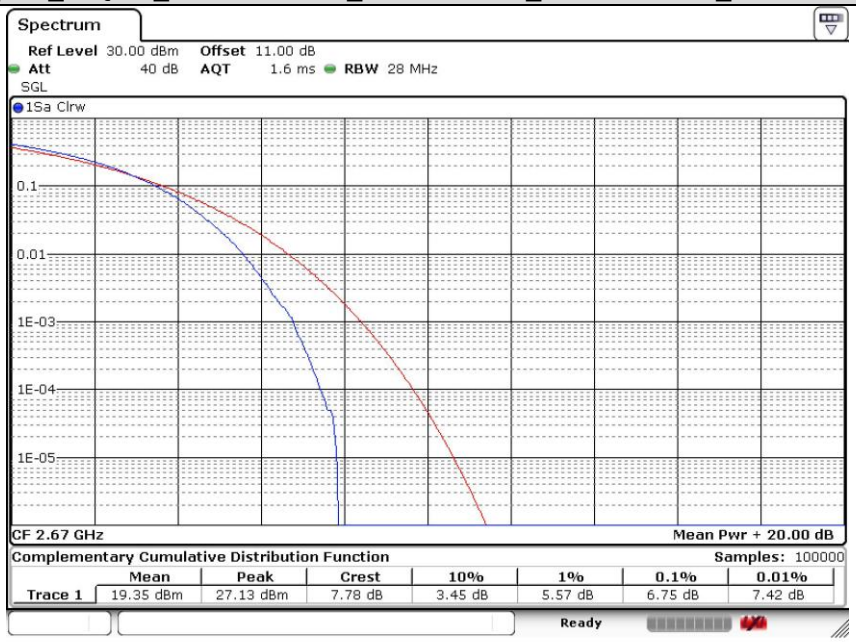


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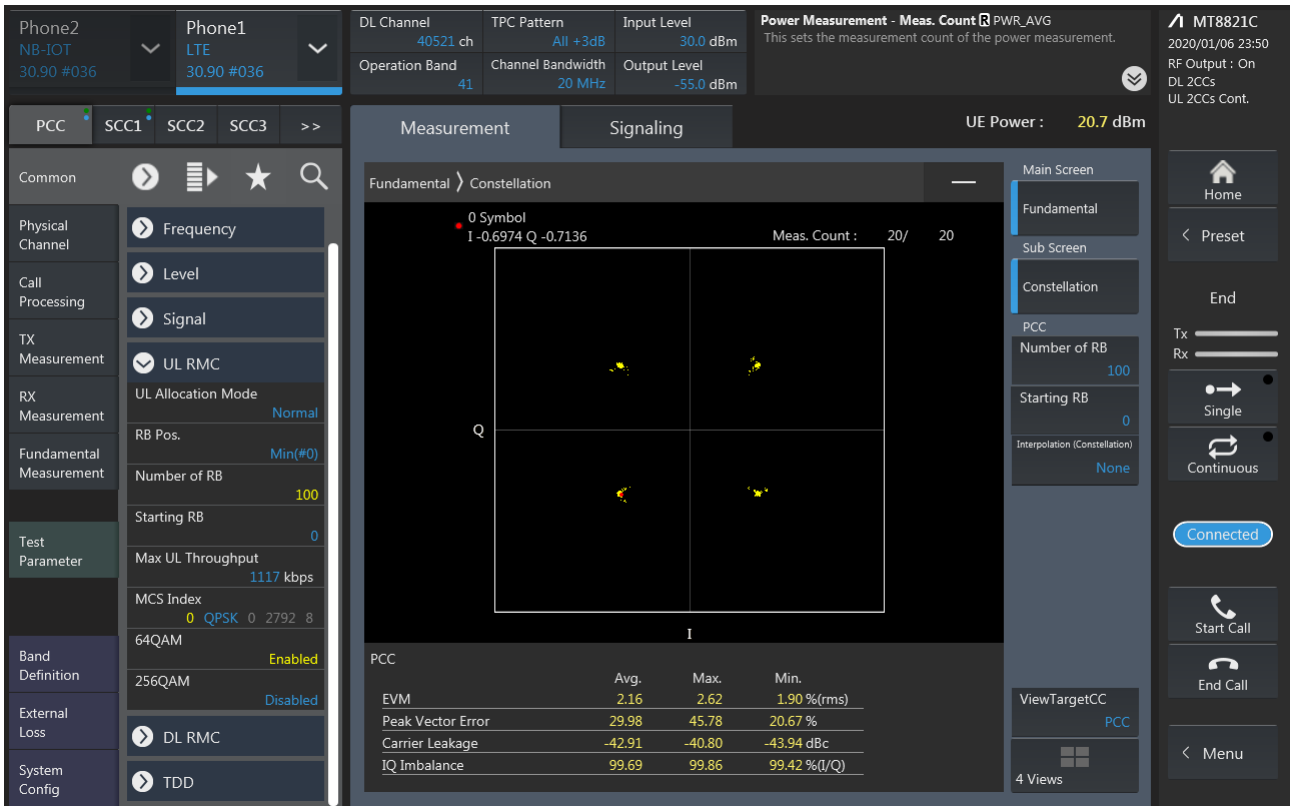
# 3 Modulation Characteristics

## 3.1 For LTE

### 3.1.1 Test Band = LTE Band CA_41C

#### 3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

##### 3.1.1.1.1 Test Channel = 40521+40719

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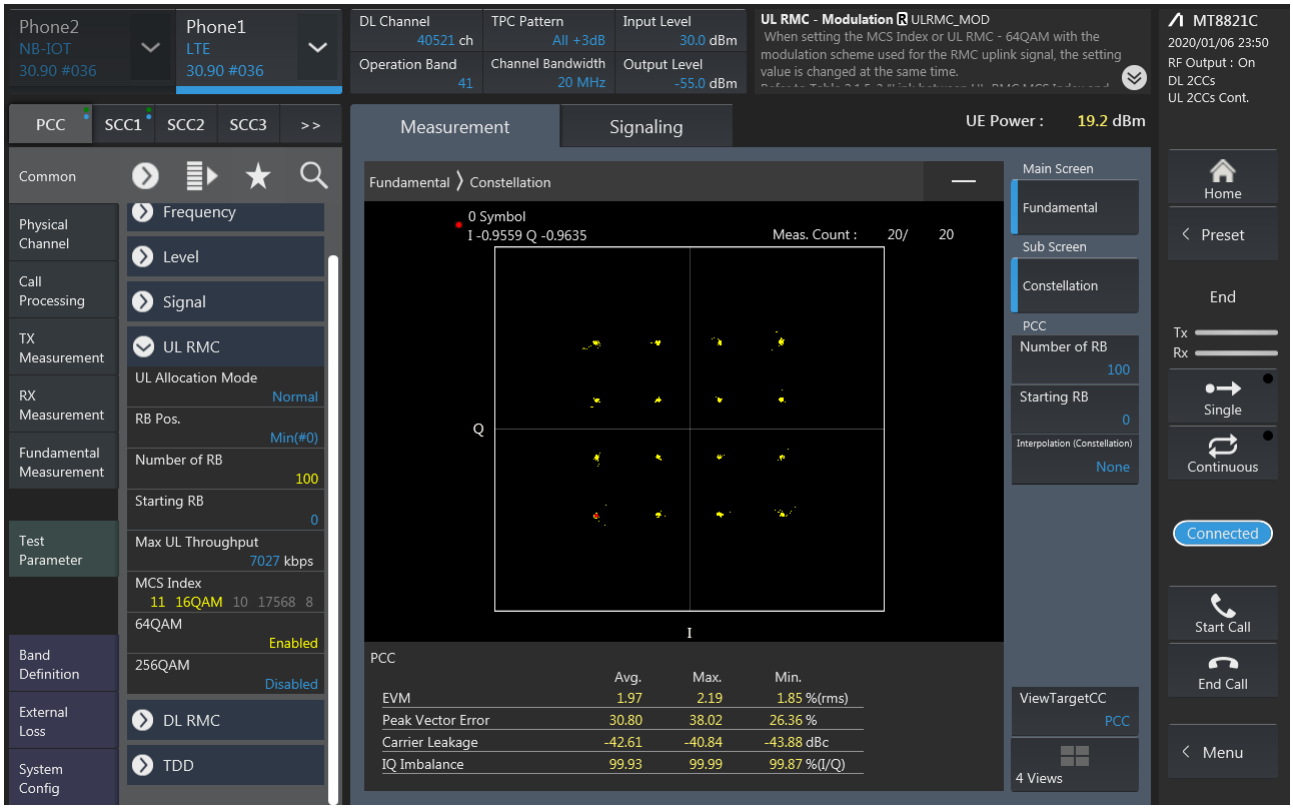
### 3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

#### 3.1.1.2.1 Test Channel = 40521+40719

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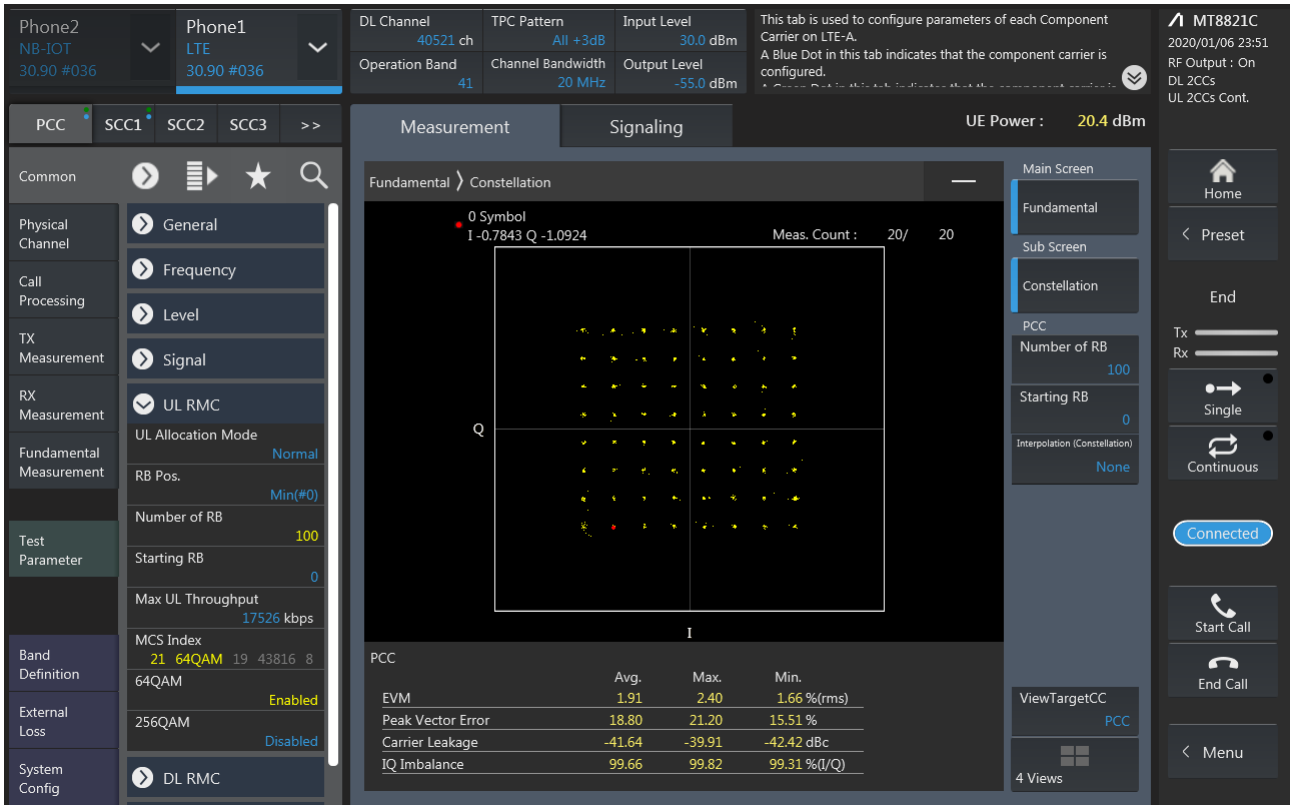
### 3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

#### 3.1.1.3.1 Test Channel = 40521+40719

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# 4 26dB Bandwidth and Occupied Bandwidth

| Test Band | Modulation PCC&SCC | Test Mode PCC/SCC | Test Channel PCC/SCC | PCC RB | SCC RB | OBW [MHz] | EBW [MHz] | Verdict |
|---|---|---|---|---|---|---|---|---|
| CA_41C | QPSK | 100RB+25RB | 39750+39867 | 100RB#0 | 25RB#0 | 22.67 | 23.62 | PASS |
| CA_41C | QPSK | 100RB+25RB | 40595+40712 | 100RB#0 | 25RB#0 | 22.87 | 23.92 | PASS |
| CA_41C | QPSK | 100RB+25RB | 41440+41557 | 100RB#0 | 25RB#0 | 22.72 | 23.82 | PASS |
| CA_41C | QPSK | 25RB+100RB | 39867+39750 | 25RB#0 | 100RB#0 | 22.72 | 23.77 | PASS |
| CA_41C | QPSK | 25RB+100RB | 40712+40595 | 25RB#0 | 100RB#0 | 22.82 | 23.77 | PASS |
| CA_41C | QPSK | 25RB+100RB | 41557+41440 | 25RB#0 | 100RB#0 | 22.77 | 23.97 | PASS |
| CA_41C | 16QAM | 100RB+25RB | 39750+39867 | 100RB#0 | 25RB#0 | 22.67 | 23.67 | PASS |
| CA_41C | 16QAM | 100RB+25RB | 40595+40712 | 100RB#0 | 25RB#0 | 22.82 | 23.82 | PASS |
| CA_41C | 16QAM | 100RB+25RB | 41440+41557 | 100RB#0 | 25RB#0 | 22.72 | 23.77 | PASS |
| CA_41C | 16QAM | 25RB+100RB | 39867+39750 | 25RB#0 | 100RB#0 | 22.72 | 23.82 | PASS |
| CA_41C | 16QAM | 25RB+100RB | 40712+40595 | 25RB#0 | 100RB#0 | 22.82 | 23.92 | PASS |
| CA_41C | 16QAM | 25RB+100RB | 41557+41440 | 25RB#0 | 100RB#0 | 22.77 | 23.82 | PASS |
| CA_41C | 64QAM | 100RB+25RB | 39750+39867 | 100RB#0 | 25RB#0 | 22.62 | 23.82 | PASS |
| CA_41C | 64QAM | 100RB+25RB | 40595+40712 | 100RB#0 | 25RB#0 | 22.87 | 23.77 | PASS |
| CA_41C | 64QAM | 100RB+25RB | 41440+41557 | 100RB#0 | 25RB#0 | 22.72 | 23.82 | PASS |
| CA_41C | 64QAM | 25RB+100RB | 39867+39750 | 25RB#0 | 100RB#0 | 22.72 | 23.77 | PASS |
| CA_41C | 64QAM | 25RB+100RB | 40712+40595 | 25RB#0 | 100RB#0 | 22.87 | 23.77 | PASS |
| CA_41C | 64QAM | 25RB+100RB | 41557+41440 | 25RB#0 | 100RB#0 | 22.77 | 23.77 | PASS |
| CA_41C | QPSK | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 37.48 | 40.12 | PASS |
| CA_41C | QPSK | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 37.64 | 40.12 | PASS |
| CA_41C | QPSK | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 37.48 | 39.88 | PASS |
| CA_41C | QPSK | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 37.56 | 39.96 | PASS |
| CA_41C | QPSK | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 37.56 | 40.12 | PASS |
| CA_41C | QPSK | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 37.48 | 39.88 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 37.56 | 40.04 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 37.56 | 40.12 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 37.48 | 39.96 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 37.48 | 39.88 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 37.56 | 40.12 | PASS |
| CA_41C | 16QAM | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 37.48 | 39.96 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 39750+39948 | 100RB#0 | 100RB#0 | 37.56 | 39.96 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 40521+40719 | 100RB#0 | 100RB#0 | 37.64 | 40.12 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 41292+41490 | 100RB#0 | 100RB#0 | 37.32 | 39.96 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 39948+39750 | 100RB#0 | 100RB#0 | 37.56 | 39.96 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 40719+40521 | 100RB#0 | 100RB#0 | 37.56 | 40.04 | PASS |
| CA_41C | 64QAM | 100RB+100RB | 41490+41292 | 100RB#0 | 100RB#0 | 37.56 | 40.04 | PASS |

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## 4.1 For LTE

### 4.1.1 Test Band = LTE Band CA_41C

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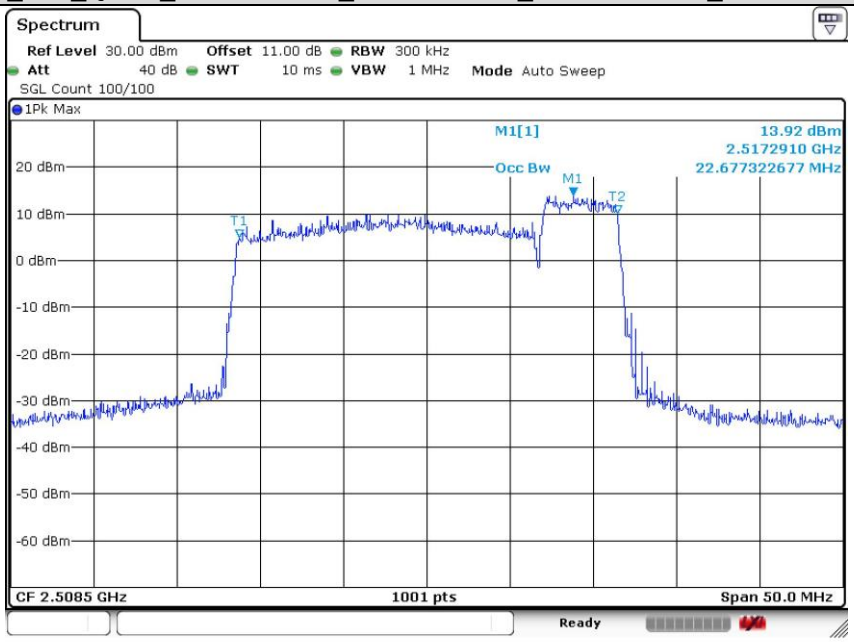


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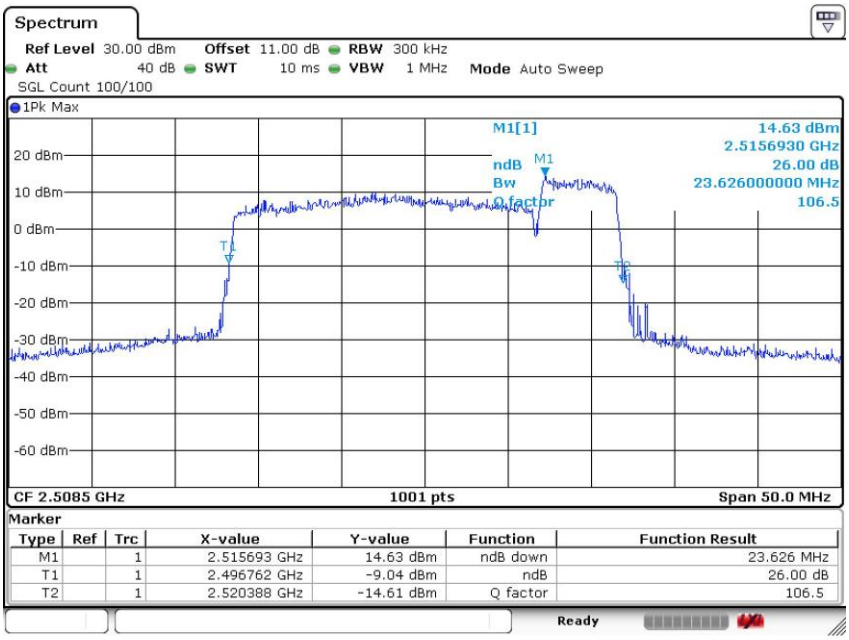


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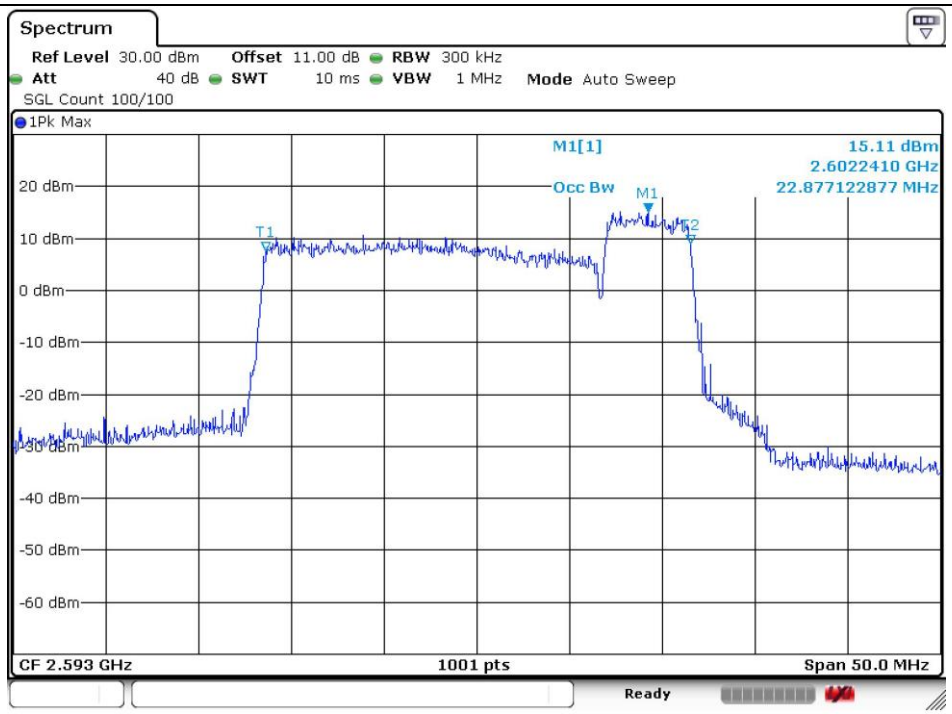


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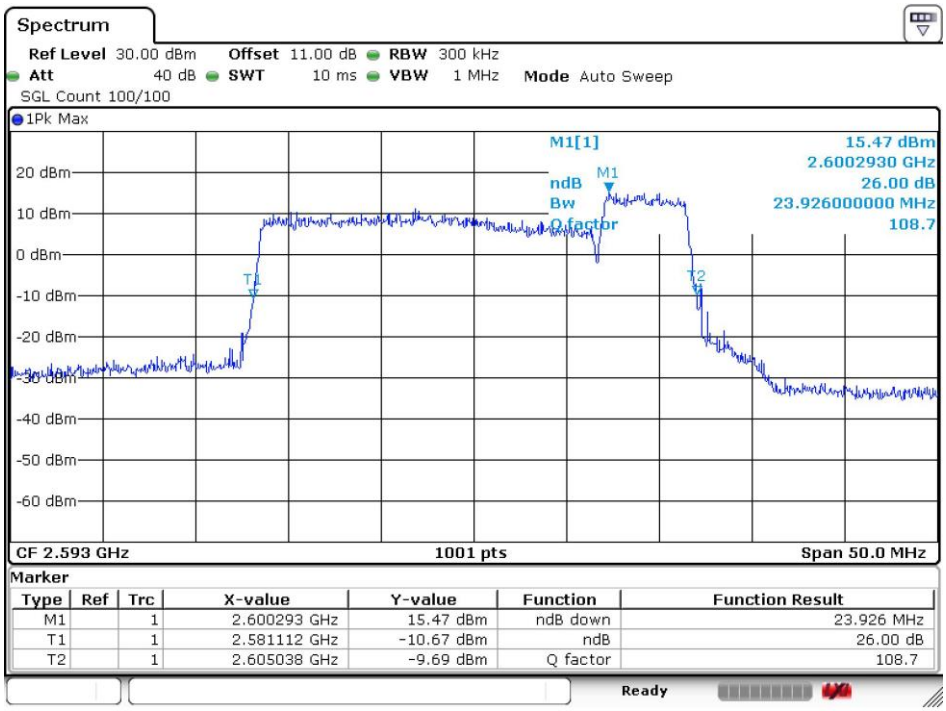


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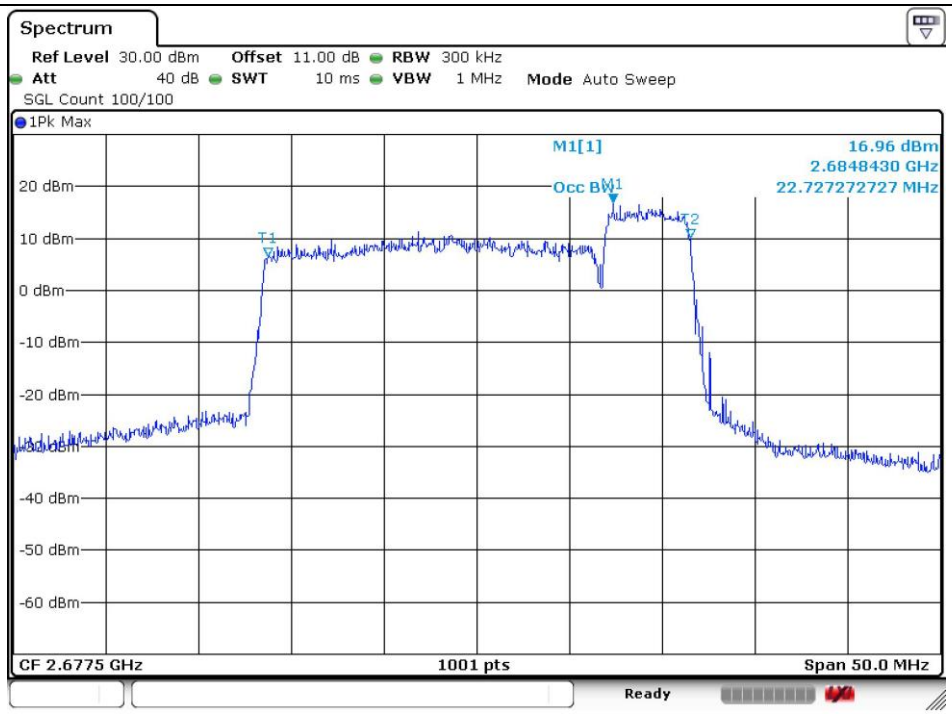


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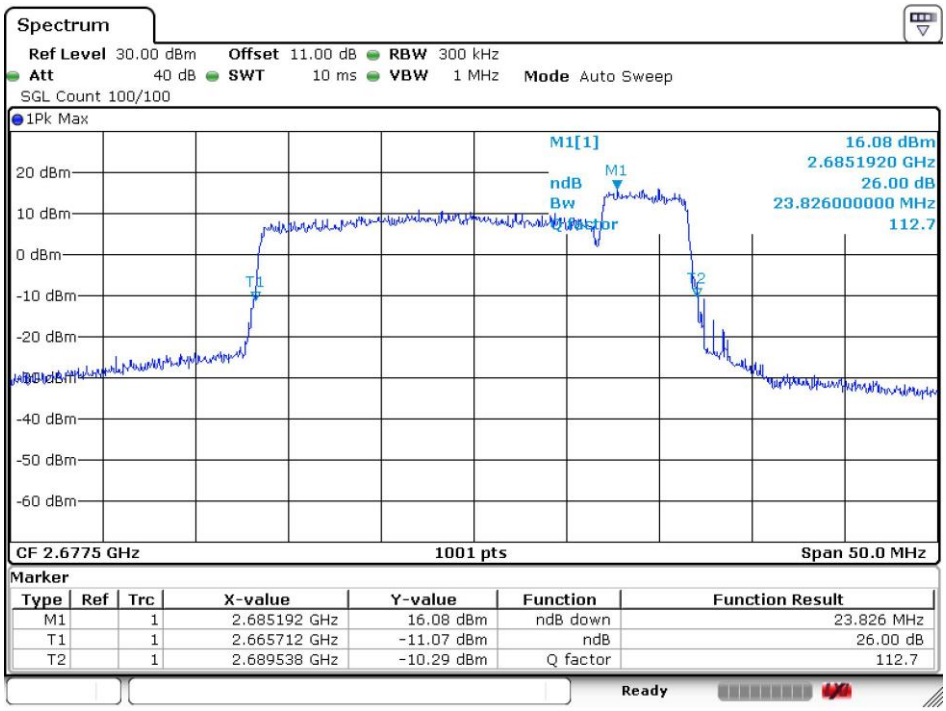


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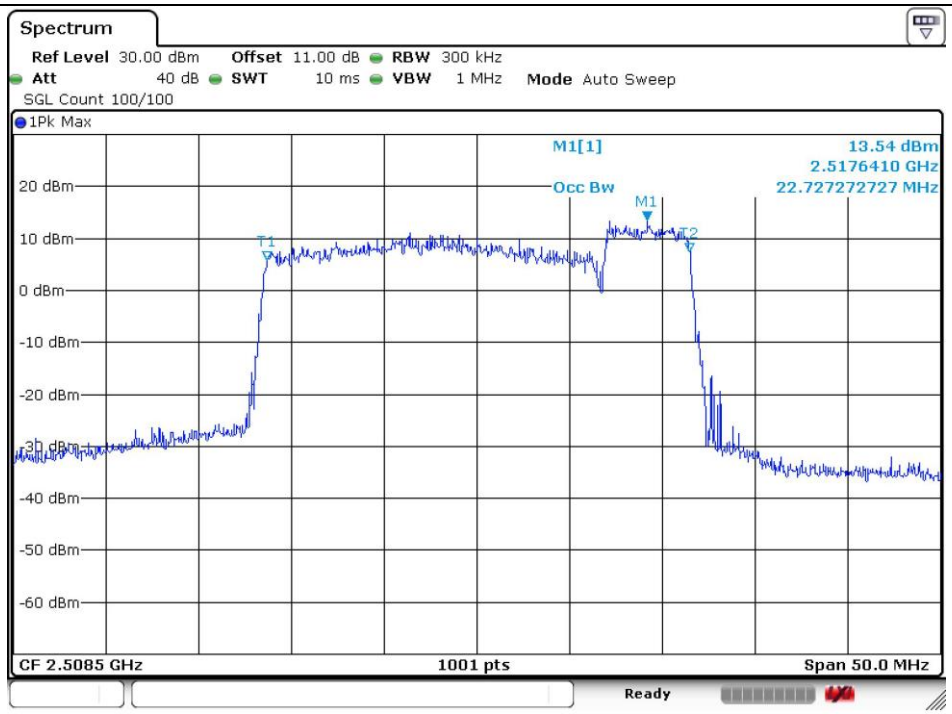


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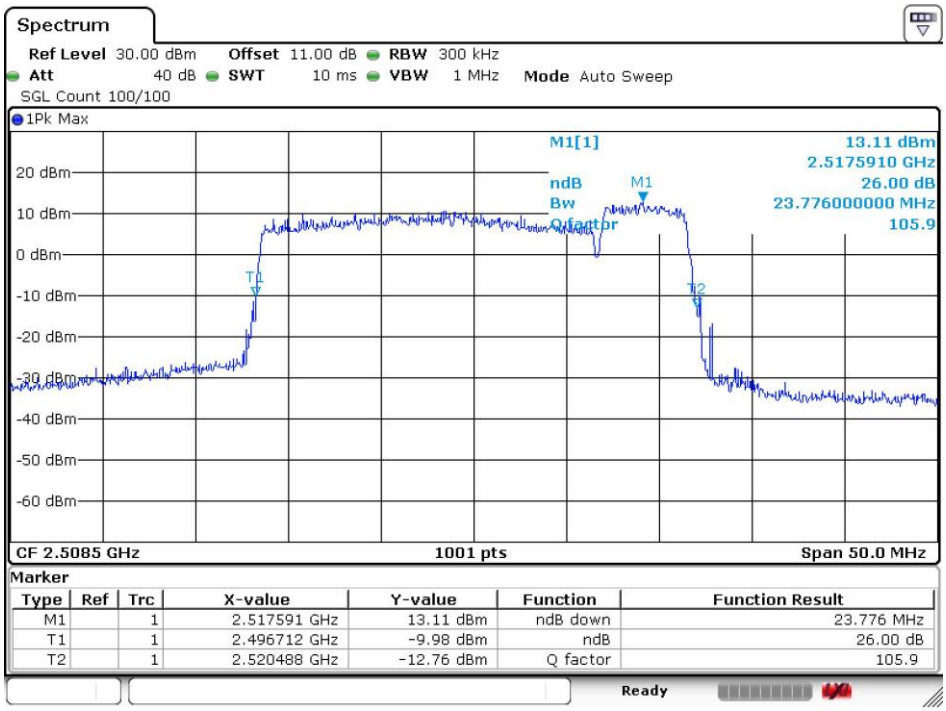


Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.517591 GHz | 13.11 dBm | ndB down | 23.776 MHz |
| T1 | | 1 | 2.496712 GHz | -9.98 dBm | ndB | 26.00 dB |
| T2 | | 1 | 2.520488 GHz | -12.76 dBm | Q factor | 105.9 |

Date: 12.FEB.2020 03:36:37

CA_41C_QPSK_25RB+100RB_40712+40595_PCC:25RB#0_SCC:100RB#0

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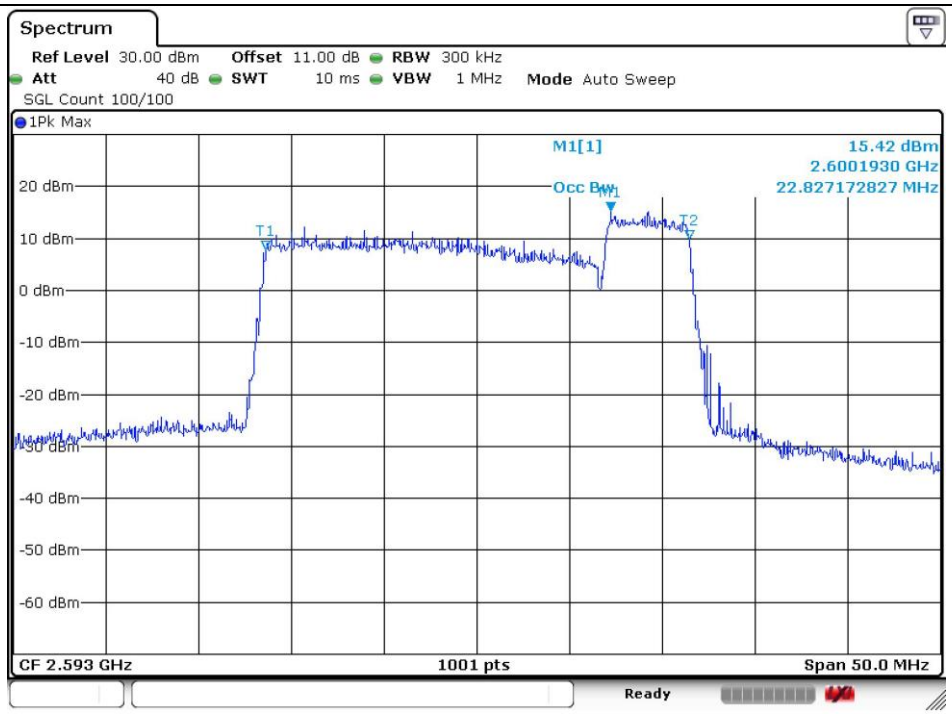


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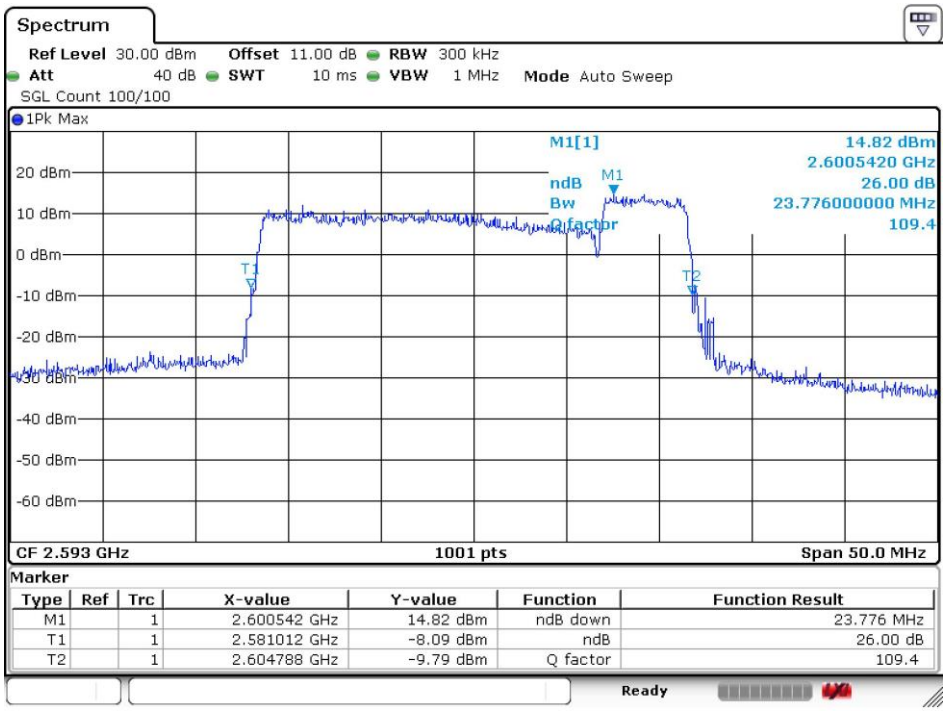


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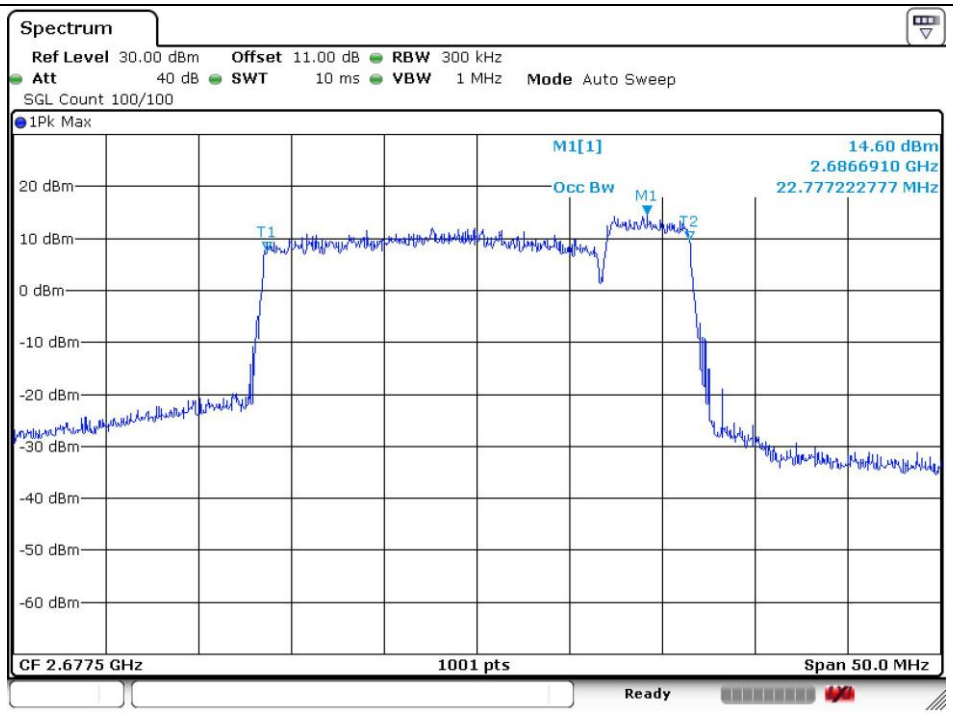


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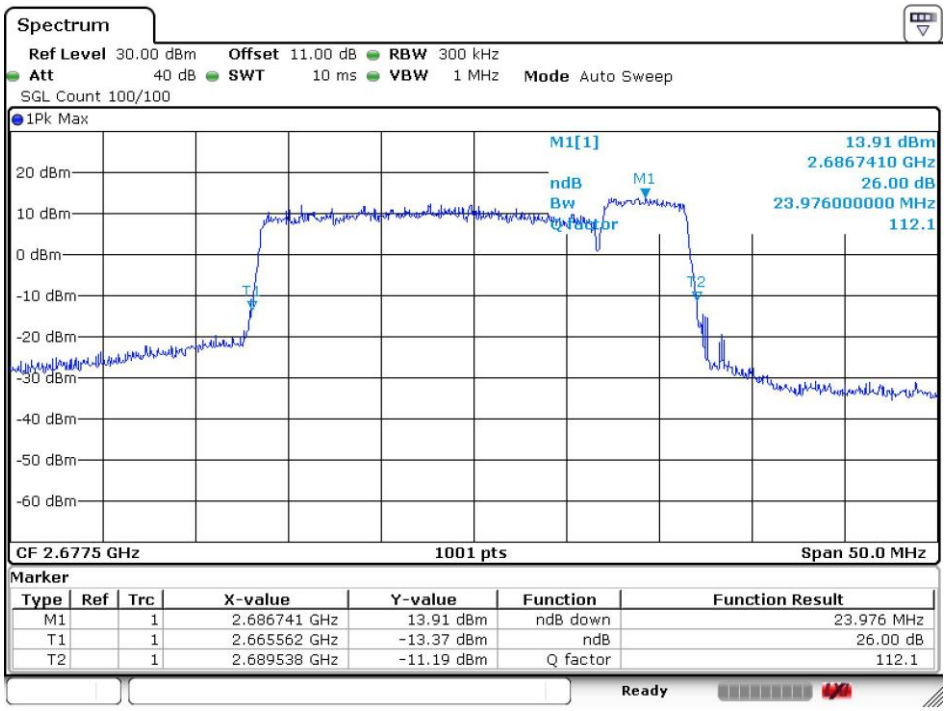


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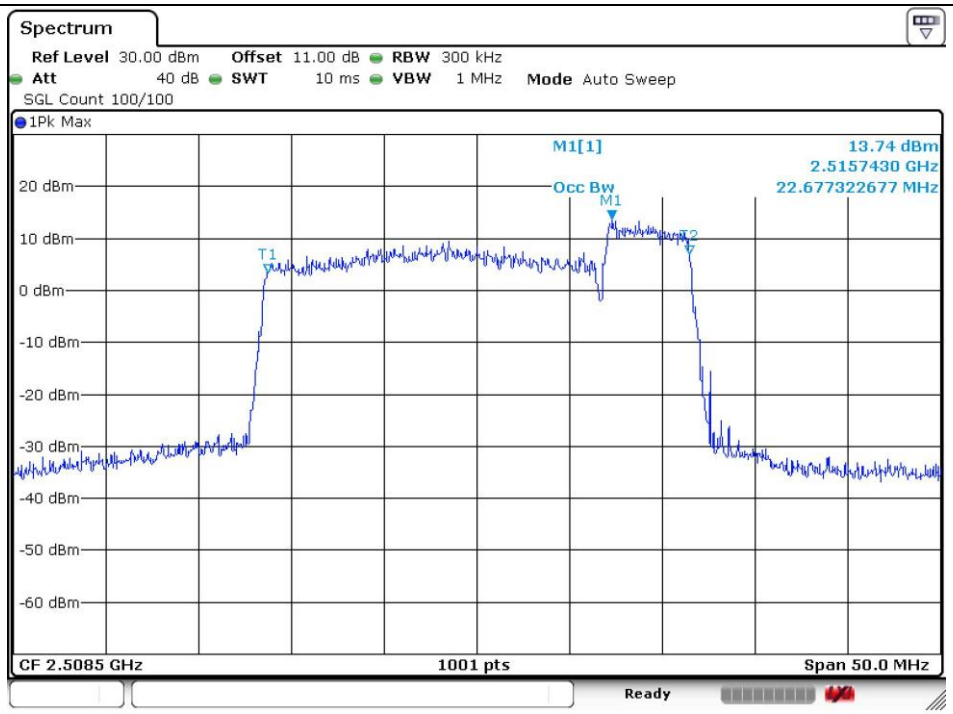


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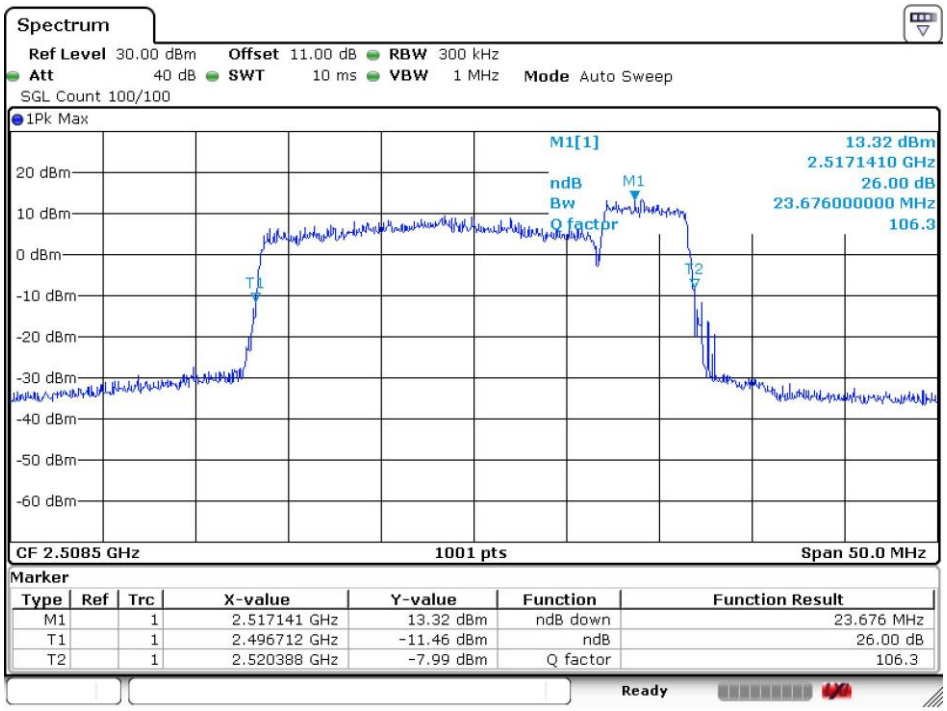


Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.517141 GHz | 13.32 dBm | ndB down | 23.676 MHz |
| T1 | | 1 | 2.496712 GHz | -11.46 dBm | ndB | 26.00 dB |
| T2 | | 1 | 2.520388 GHz | -7.99 dBm | Q factor | 106.3 |

Date: 12.FEB.2020 03:27:33

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